DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Idm-E NO. Idm-E943

DMEA NO. 4047

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- [ ] Withdrawn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
- [x] Certification of Discovery
- [ ] 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
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [x] Project summary (final)
- [x] Work Completed analysis (final)
- All other material filed in chronological order including the following reports if checked:
- [ ] Field Team Semi-Annual Report for Certified Project
- [x] Final Field Team Report (Tab) Folder #2
- [x] Operator's Final Report (Tab) Folder #2
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders: #2 Correspondence, from January 1, 1958, to _____

Left Side

Folders No. #3 : 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
- [x] Operator's Monthly Reports with transmittal, narrative and maps.

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

Folders No. #4 : ~~Settlement Sheets~~ Semiannual reports on certified project

Folders No. _____ : Drill Logs

Folders No. _____ : Royalty material

17963

Docket Copy

Knowne
Ellis
Selfridge
Johnson
Franklin

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

To: Albert W. Dilling,
Attorney for:
Charles M. Coleman, J. H. Dimerly,
Albert W. Dilling, Leonard D. Carmichael,
Kirkpatrick W. Dilling, and Mabel E. Carmichael
139 N. Clark Street
Chicago 2, Illinois

Pursuant to the provisions of Exploration Project Contract No. Idm-E943, dated April 11, 1956, (Docket No. DMEA-4047), hereinafter called the "contract," between Charles M. Coleman, J. H. Dimerly, Albert W. Dilling, Leonard D. Carmichael, Kirkpatrick W. Dilling, and Mabel E. Carmichael and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

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

Surface drilling on the Longport and Marsh claims intersected uranium-bearing areas of ore grade in sandstone and conglomerate of the Upper Wind River formation of Tertiary age.

Dated: _____

FLKnouse/gla (2-28-58) 3-10-58

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals
Exploration Administration

Copies to:
Albert W. Dilling
Charles M. Coleman
Kirkpatrick W. Dilling
139 N. Clark St., Chicago 2, Ill.
J. H. Deimerly, 1207 Benton Street, Rockford, Illinois
Leonard D. Carmichael and Mabel E. Carmichael, Rochelle, Illinois
Irving L. Marshack, 1325 Commerce Street, Longview, Washington
DonLonder
Robert W. Utter
Charles Lesnick
Contract Adm. & Audit Division
DMEA Field Team, Region III (2)
Finance Office
Docket
Frank D. Lamb, 3608
THKillsgaard, 5224
Mr. Knouse
Jesse C. Johnson, Director
Division of Raw Materials, AEC
Elton A. Youngberg, AEC, GJ, Colorado
Admr.'s Reading File
Frank E. Johnson
Operating Committee

Docket copy

Chamber

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

To: Albert W. Dilling,
Attorney for:
Charles M. Coleman, J. H. Deimerly,
Albert W. Dilling, Leonard D. Carmichael,
Kirkpatrick W. Dilling, and Mabel E. Carmichael
139 N. Clark Street
Chicago 2, Illinois

Pursuant to the provisions of Exploration Project Contract No. Idm-E943, dated April 11, 1956, (Docket No. DMEA-4047), hereinafter called the "contract," between Charles M. Coleman, J. H. Deimerly, Albert W. Dilling, Leonard D. Carmichael, Kirkpatrick W. Dilling, and Mabel E. Carmichael and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

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

Widespread surface drilling of the Longport and Marsh claims intersected uranium mineralized bodies of ore grade in sedimentary rocks of Tertiary age.

Dated: _____

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals
Exploration Administration

FLKnouse/gla 2-28-58
Copies to:
Albert W. Dilling,
139 North Clark St., Chicago 2, Ill.
Charles M. Coleman) above
Kirkpatrick W. Dilling) address
J. H. Deimerly, 1207 Benton Street, Rockford, Illinois
Leonard D. Carmichael and Mabel E. Carmichael, Rochelle, Illinois
Irving L. Marshack, 1325 Commerce Street, Longview, Washington
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Docket

Jesse C. Johnson, Director
Division of Raw Materials, AEC
Elton A. Youngberg, AEC, Grand Junction
Admr.'s Reading File
Frank E. Johnson
Operating Committee
Frank D. Lamb, 3608
THKillsgaard, 5224
Mr. Knouse

JUN 19 1959
O.M.E.

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Executive Officer, OME Field Team, Region III, Denver, Colorado pertaining to Contract IAm-R943, Docket No. DMRA 4047, dated April 11, 1956, with

Charles M. Coleman and Associates
139 North Clark Street
Chicago 2, Illinois

for the purpose of determining the amount of royalties due the U. S. Government on the sales of Uranium, from property referred to as Clyde, Marsh and Longport Group, located in Fremont County, Wyoming, during the period April 11, 1956 to June 16, 1959.

A Certification of Discovery or Development was issued on March 10, 1958, and accordingly royalty is payable on all production from the land described in Article 2 of the contract for a maximum period of 12 years from the date of the contract. A Report of Review in lieu of Final Cost Audit dated November 10, 1958, indicated accepted costs under the exploration contract amounting to $20,290.22, with the Government's contribution on a 68.03 percent (average) basis being $13,803.23.

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

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

(a) According to the Field Team's Semi-Annual Report of certified project for the period January 1, to June 30, 1958, operation ceased about June 26, 1958; no ore has been shipped since April 11, 1956, (The date of the exploration contract). A subsequent semi-annual report of Field Team for the period July 1, 1958 to December 31, 1958, indicates the property inactive, and no operations or ore shipments are anticipated in 1959.

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

June 16, 1959

Donald T. Finch
Donald T. Finch
OME Auditor

DMEA FORM 6 REFERENCE SLIP

REV. 12-56 DEFENSE MINERALS F' 'ORATION ADMINISTRATION

TO:	INITIALS	DATE
1. Mr. Frank E. Johnson	FEJ	11/21
2. Mr. ~~George C. Selfridge~~		
3. Mr. F. L. Knouse	FLK	11/27
4.		
5.		

FROM: Jay L. Chambers JLC 11/21

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

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

EXTRA COPY
O. M. E.
RECEIVED NOV 21 1958

DATE	INITIALS	CODE

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Charles M. Coleman and Associates
139 North Clark Street,
Chicago 2, Illinois

pertaining to Exploration Project Contract No. Idm-8943, IMEA No. 4047, including Amendments Nos. 1 through 6, and Termination Agreement dated September 29, 1958, for the period April 11, 1956 to June 26, 1958, inclusive, covering a project for the exploration of Uranium on property known as Clyde, Marsh and Longport group of claims located in Fremont County, Wyoming.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, verification of 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		$20,416.12
Exceptions: (Schedule attached)		
Prior to this review	$125.90	
Herewith	0.00	125.90
Total Accepted Cost		$20,290.22

The contract for participation of exploration expenses by the United States Government is as follows:

75%	of	$14,632.50	or	$10,974.37
50%	of	5,657.72	or	2,828.86
		$20,290.22		$13,803.23

Therefore, payment to the contractor by the Government in the amount of Thirteen thousand, eight hundred three and 23/100ths 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 Contractor	$13,803.23
Amount reimbursed	13,303.23
Balance due Operator	$ 500.00

Sd. to Apr. 11/26/58

Donald T. Finch

November 10, 1958

Donald T. Finch, OME Auditor

REASONS FOR REPORT OF REVIEW IN LIEU OF FINAL AUDIT

CHARLES M. GOLDMAN AND ASSOCIATES

CONTRACT Idm-8943 DOCKET IMSA 4047

(a) The Monthly Reports were supported by documentary proof of that portion ($14,979.20) of the costs applicable to work performed at unit rates under an independent contract, and that portion of costs ($2,601.50) applicable to contract categories 2, 3, 4 and 7. (See Summary attached.)

(b) The balance ($2,709.52) 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; and

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

SCHEDULE OF EXCEPTIONS

CHARLES M. COLEMAN AND ASSOCIATES

CONTRACT NO. Ida-2943 DOCKET NO. IBCA 4047

Exceptions: Prior to this review

Drilling	
20 feet of drilling at 95¢ per foot in excess of total shown by drill logs for month of June, 1958	$19.00
Incidental Allowance	
20 feet of excess drilling at 22¢ per foot	4.40
Standby Time	
Duplicate charge for 9 hours of standby time at $10.00 per hour. June, 1958 MP-104 includes this charge under drilling and also as separate item. Disallowance applies to drilling charge shown by Operator.	90.00
Bulldozing	
Excess charge of 1 hour at $12.50 per hour claimed on Operator's June, 1958 MP-104	12.50
Total Exceptions Prior to This Review	$125.90

The Executive Officer of the OGC Field Team, Region III, and the Auditor concur with the foregoing disallowances.

SUMMARY DOCUMENTED COSTS

CHARLES M. COLEMAN AND ASSOCIATES

CONTRACT NO. Idm-E943 DOCKET NO. DMEA 4047

	ACCEPTED COSTS		
	Govt. Contribution On 75% Basis	Govt. Contribution On 50% Basis	Total Accepted Costs
Independent Contracts			
Drilling			
12,060 Ft. Average $0.7877 per foot	$ 9,484.00		
4,716 Ft. at 95¢ per foot		$4,480.20	
Bulldozing			
62 Hours at $12.50 per hour	775.00		
4 Hours at $12.50 per hour		50.00	
Standby Time			
10 Hours at $10.00 per hour	100.00		
9 Hours at $10.00 per hour		90.00	
Total Independent Contracts	$10,359.00	$4,620.20	$14,979.20
Category 2 - Personal Services			
Supervision	$ 1,100.00		
Technical Services	717.00		
Category No. 3 - Operating Materials & Supplies			
Sample Containers	6.00		
Category No. 4 - Operating Equipment			
Rental			
1 Pickup Truck or Automobile			
1,400 miles at 10¢ per mile	140.00		
Category No. 7 - Miscellaneous			
Radiometric hole logging 4,440 Ft. @ 10¢/ft.	444.00		
Chemical Analyses			
27 at $3.50 each $94.50			
4 at $4.00 each 16.00	110.50		
Accounting - 2 mos. @ $42.00/mo.	84.00		
Total Categories 2, 3, 4 and 7	$ 2,601.50	-	$ 2,601.50
FIXED UNIT COSTS			
Incidental Allowance			
7,600 Feet Completed Drilling at 22¢/Ft.	$ 1,672.00		
4,716 Feet Completed Drilling at 22¢/Ft.		$1,037.52	
Total Fixed Unit Costs	$ 1,672.00	$1,037.52	$ 2,709.52
TOTAL ACCEPTED COSTS	$14,632.50	$5,657.72	$20,290.22

Government's copy

RECEIVED
NOV 3 1958
O.M.E

TERMINATION AGREEMENT

It is agreed this 29th day of September, 1958, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter called the "Government," and Charles M. Coleman, J. H. Deimerly, Albert W. Dilling, Leonard D. Carmichael, Kirkpatrick W. Dilling, and Mabel E. Carmichael, hereinafter called the "Operator," parties to that certain Exploration Project Contract No. Idm-E943, Docket No. DMEA-4047, dated April 11, 1956, as amended, hereinafter called the "Contract," that:

1. Effective June 26, 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 allowable costs of the work performed prior to June 26, 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.

App'd. Sol. Off.

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

THE UNITED STATES OF AMERICA

By _____
ACTING Director, Office of Minerals Exploration

_____ ~~(Partner)~~
Charles M. Coleman

_____ ~~(Partner)~~
J. H. Deimerly

_____ ~~(Partner)~~
Albert W. Dilling **for Himself and As Attorney in Fact for the other Parties**

_____ (~~Partner~~)
Leonard D. Carmichael

_____ ~~(Partner)~~
Kirkpatrick W. Dilling

_____ (~~Partner~~)
Mabel E. Carmichael

Signatures not
11/4/56

Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman, et al.
Clyde, Marsh, and Longport Group of Claims
Fremont County, Wyoming

JUSTIFICATION FOR TERMINATION AGREEMENT

All approved work for Stages I, II, III, and IV completed resulted in a discovery of three small ore bodies on the Longport claims and a certification was issued on March 10, 1958.

Shallow drilling on the Clyde claims had negative results, but later work east of the Clyde claims resulted in two significant discoveries at lower horizons. Therefore, Amendment No. 5 to the contract provided for Stages V, VI, and VII, aggregating 17,050 feet of drilling to average depths of 550 feet.

The Operator completed 11 widespread holes on the Clyde claims under Stage V, With the exception of Hole No. 2, all holes were either barren or contained less than 0.02% eU_3O_8. According to the Operator, Hole No. 2 contained an estimated 0.08% eU_3O_8 in the interval 168 to 184 feet and ore-grade material from a depth of 172 to 178 feet. It appears from the gamma-ray log of the hole that the "ore-grade" material first thought to contain 0.15% eU_3O_8 actually contained a maximum of 0.09% eU_3O_8 over a width of 1½ feet.

From the Government's viewpoint, the drilling of the three offset holes to Hole No. 2 is not essential to the success of the program. Therefore, the Operator's request for an extension of time to drill the three holes should be denied and the contract work should be terminated.

F. L. Knouse

F. L. Knouse

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EXPLORATION PROJECT CONTRACT
CHARLES M. COLEMAN ET AL.
DOCKET NO. DMEA 4047
CONTRACT NO. Idm-E943

AMENDMENT NO. 6

It is agreed this 27th day of May, 1958, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Charles M. Coleman et al., hereinafter called the "Operator," parties to that certain Exploration Project Contract No. Idm-E943, Docket No. DMEA 4047, dated April 11, 1956, as amended, hereinafter called the "Contract," that:

> The date fixed, in Amendment No. 5, item 1 (a), for the end of suspension of operations, is extended from June 1, 1958 to June 15, 1958.

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

Executed in quintuplicate the day and year first above written.

CHARLES M. COLEMAN
J. H. DEIMERLY
ALBERT W. DILLING
LEONARD D. CARMICHAEL
KIRKPATRICK W. DILLING
MABEL E. CARMICHAEL

By Albert W. Dilling
Albert W. Dilling
Individually and as Attorney-in-Fact for the other above-named persons.

UNITED STATES OF AMERICA

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

Government Copy

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RECEIVED MAY 26 1958
DATE

EXPLORATION PROJECT CONTRACT
CHARLES M. COLEMAN ET AL.
DOCKET NO. DMEA-4047

AMENDMENT NO. 5

It is agreed this 28th day of April, 1958, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Charles M. Coleman, et al., hereinafter called the "Operator," that Exploration Project Contract Idm-E943, Docket No. DMEA-4047, dated April 11, 1956, as amended, hereinafter called the "Contract," is further amended as follows:

1. (a) Work under the Contract shall be suspended during the period beginning August 23, 1957, and ending not later than June 1, 1958.

(b) The Government will not contribute to any costs incurred by the Operator during the period of suspension.

(c) The Operator, at its own cost and expense, without contribution by the Government, during the period of suspension shall preserve and protect the project work and any property in which the Government has an interest.

2. The date fixed for the completion of the work in Article 3 of the Contract is further extended from September 1, 1957, to September 1, 1958.

3. The maximum royalty payment period specified in Article 8(b)(2) of the Contract is further extended from 11 years to 12 years.

4. In Article 5 of the Contract that portion preceding the colon is deleted and the following substituted:

"The estimated total allowable cost of the project, set forth in Exhibit 'A,' is the sum of $35,518.50. The Government shall contribute 75 percent of the

allowable costs under Stages I, II, III, and IV, and 50 percent of the allowable costs under Stages V, VI, and VII, as they are incurred, in a total sum not in excess of $21,417.37."

5. In Exhibit "A," under Description of the Work:

(a) All work provided for in Stages I, II, III, and IV which has not been completed as of the date first above written is hereby canceled.

(b) New Stages V, VI, and VII are added as described below. The Operator shall complete Stage V and shall perform as much of Stages VI and VII as the Government approves in writing in advance.

The work under Stages V, VI, and VII is confined to the Clyde claim group described in Annex I and is designed to explore the entire upper Wind River formation by noncore, rotary drilling. The work shall be performed in accordance with the specifications described under General Provisions except as otherwise specified. The general location of the new work and of the work already completed on these claims is shown on the map entitled "Figure 6 - Map of Clyde Claim Group and Adjacent Claims, Showing Recommended Exploration, Fremont County, Wyoming," attached hereto and made a part hereof. No hole shall be drilled closer than 100 feet to the outer boundaries of these claims, and the Government shall not contribute to the cost of any incompleted drill hole. Drilling depths are expected to average 550 feet. No hole shall penetrate more than 10 feet into the lower Wind River formation.

Stage V

Prepare access roads and drill sites and drill 11 holes aggregating an estimated 6,050 feet at the locations shown on the map (Figure 6). The holes are in four north-south rows in the northern part of the claims. The rows are approximately 1,000 feet apart and the holes within each row are approximately 500 feet apart and staggered with respect to the holes in adjacent rows. If the 11 holes require more than 6,050 feet of drilling to reach the objective, the additional footage and funds required may, upon the

written approval of the Government, be transferred and deducted from Stage VII.

Stage VI

Prepare access roads and drill sites and drill 10 holes aggregating an estimated 5,500 feet as offsets to previously drilled holes which show favorable mineralization. The offset holes shall be drilled not closer than 250 feet to any previously drilled hole that reached the objective. If the 10 holes require more than 5,500 feet of drilling, the additional footage and funds required may, upon the written approval of the Government, be transferred and deducted from Stage VII.

Stage VII

Prepare access roads and drill sites and drill not more than 10 holes aggregating not more than 5,500 feet as offsets to previously drilled holes which show favorable mineralization. The offset holes shall be drilled not closer than 125 feet to any previously drilled hole that reached the target.

6. In Exhibit "A," under Estimated Cost of Project, Stages V, VI, and VII are added as follows:

Stage V 1/

Actual Costs

Category (1) Independent Contracts	
6,050 feet noncore drilling @ $0.95/ft.	$5,747.50
5 hours drill crew standby time @ $10/hr.	50.00
5 hours bulldozing @ $12.50/hr. including operator and all necessary costs	62.50
Categories (2) through (6)	
None	

Category (7) Miscellaneous, None except:

30 chemical analyses @ $3.50* each sample (See Amend.No.3)	$105.00
	$5,965.00

Fixed Unit Costs (See paragraph 6(d) of Amendment No. 3)

Incidental allowance 2/ for each foot of hole drilled, 6,050 feet @ $0.22/ft.	$1,331.00

Estimated Total Cost of Stage V $7,296.00

Stage VI 1/

Actual Costs

Category (1) Independent Contracts

5,500 feet noncore drilling @ $0.95/ft.	$5,225.00
5 hours drill crew standby time @ $10/hr.	50.00
8 hours bulldozing @ $12.50/hr., including operator and all necessary costs	100.00

Categories (2) through (6)

None

Category (7) Miscellaneous, None except:

60 chemical analyses @ $3.50* each sample (See Amend. No. 3)	$210.00
	$5,585.00

Fixed Unit Costs (See paragraph 6(d) of Amendment No. 3)

Incidental allowance 2/ for each foot of hole drilled, 5,500 feet @ $0.22/ft.	$1,210.00	
Estimated Total Cost of Stage VI		$6,795.00

Stage VII 1/

Estimated costs of Stage VII are identical to those of Stage VI.

7. Delete the Summary and substitute the following;

SUMMARY OF COSTS

Estimated Cost of Stages I and II	$9,492.00	
Estimated Cost of Stages III and IV	11,547.40	$21,039.40
Contract Expenditures under Stages I and II	$6,770.00	
Contract Expenditures under Stages III and IV	7,862.50	14,632.50
Unobligated at date of Amendment No. 5		$6,406.90
Estimated Cost of Stage V	$7,296.00	
Estimated Cost of Stage VI	6,795.00	
Estimated Cost of Stage VII	6,795.00	20,886.00
Estimated Additional Cost of Amendment No. 5		$14,479.10

App'd. Sol. Off.

Estimated Total Cost of the Project		$35,518.50
Government Participation @ 75 percent under Stages I, II, III, and IV	$10,974.37	
Government Participation @ 50 percent under Stages V, VI, and VII	10,443.00	
Total Government Participation under the Project		$21,417.37

1/ Categories (2) through (6) of Article 6(a) do not apply to the costs of work under Stages V, VI, and VII.

2/ Includes all costs that might be allowable costs of the project under Categories (1) through (7) of Article 6(a), except as otherwise scheduled in Exhibit "A."

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals Exploration Administration

CHARLES M. COLEMAN
J. H. DEIMERLY
ALBERT W. DILLING
LEONARD D. CARMICHAEL
KIRKPATRICK W. DILLING
MABEL E. CARMICHAEL

By _____
Albert W. Dilling, individually and as Attorney-in-Fact for the other above-named persons

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 4047
CONTRACT Idm-E 943

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

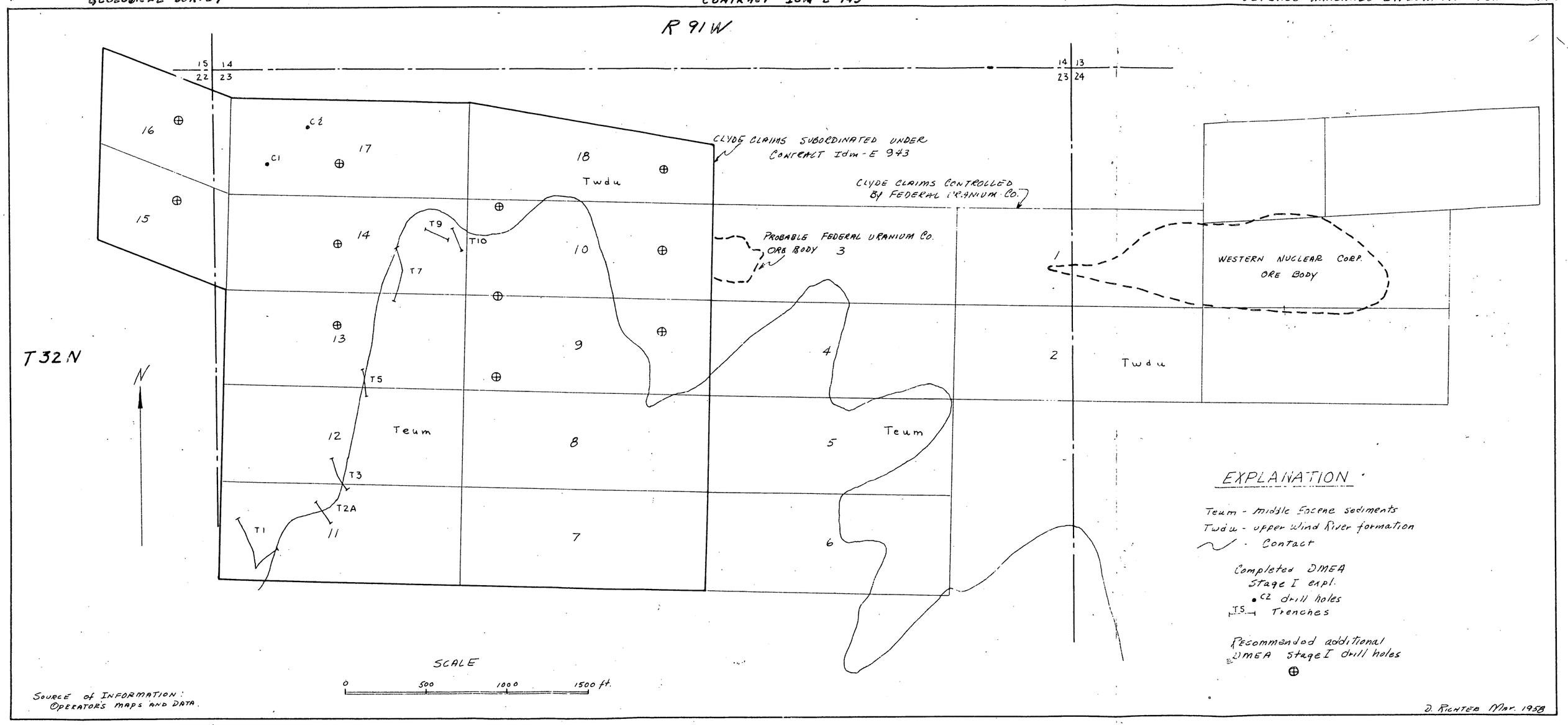

FIGURE 6 - MAP OF CLYDE CLAIM GROUP AND ADJACENT CLAIMS, SHOWING RECOMMENDED EXPLORATION, FREMONT COUNTY, WYOMING.

Ellis

April 17, 1958

JUSTIFICATION FOR AMENDMENT NO. 5

Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman, et al.,
Clyde, Marsh, and Longport Groups of Claims
Fremont County, Wyoming

The original contract, consisting of Stages I and II, was designed to explore for uranium in areas of radiometric anomalies, by trenching and comparatively shallow drilling. Work under these two stages resulted in six low-grade ore holes on the Marsh group and no significant discoveries on the Longport and Clyde claims.

More recent geologic information became available which indicated that deeper drilling on the Longport claims was warranted. Accordingly, Stages III and IV were approved under Amendment No. 3. Additional funds were provided for the deeper drilling on the Longport claims and some shallow offset drilling on the Marsh claims.

Stages III and IV showed that the Marsh claims contained no worthwhile ore bodies but the deeper drilling delineated three small ore bodies on the Longport claims. A certification of discovery was made on March 10, 1958.

Shallow work on the Clyde claims had negative results, but recent work east of the Clyde claims resulted in two significant discoveries at lower horizons. The ore occurs in two horizons of the upper Wind River formation. There is a good possibility that these deposits trend toward the northern part of the Clyde claims. Accordingly, the Applicant's request for additional deeper drilling and funds to further explore the Clyde claims is justified. A program of work in three stages is contemplated.

Michael Ching

Michael Ching

Government's Copy

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DMEA
RECEIVED AUG 16 1957

DATE	INITIALS	CODE

EXPLORATION PROJECT CONTRACT
CHARLES M. COLEMAN ET AL.
DOCKET NO. DMEA 4047
CONTRACT NO. Idm-E943

AMENDMENT NO. 4

It is agreed this 31st day of July, 1957 between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Charles M. Coleman et al., hereinafter called the "Operator," parties to that certain Exploration Project Contract No. Idm-E943, Docket No. DMEA 4047, dated April 11, 1956, hereinafter called the "Contract," that:

1. The date fixed in Article 3, on or before which the Operator shall complete the work, as amended by Amendment No. 3, is extended from August 1, 1957 to September 1, 1957.

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

Executed in quintuplicate the day and year first above written.

CHARLES M. COLEMAN
J. H. DEIMERLY
ALBERT W. DILLING
LEONARD D. CARMICHAEL
KIRKPATRICK W. DILLING
MABEL E. CARMICHAEL

By Albert W. Dilling
Albert W. Dilling, individually
and as Attorney-In-Fact for
the other above-named persons

UNITED STATES OF AMERICA

By E. M. Hawkinson
Acting Executive Officer, DMEA
Field Team, Region III

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DMEA
RECEIVED MAY 16 1957

Government's copy

DATE	INITIALS	CODE

EXPLORATION PROJECT CONTRACT
CHARLES M. COLEMAN ET AL.
DOCKET NO. DMEA-4047

AMENDMENT NO. 3

It is agreed this 19th day of April, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration (hereinafter called the "Government"), and Charles Coleman et al. (hereinafter called the "Operator"), that Exploration Project Contract Idm-E943, Docket No. DMEA-4047, dated April 11, 1956, as amended (hereinafter called the "Contract"), is further amended as follows:

1. The date for completion of the work as extended by Amendment No. 2 to October 15, 1956, is further extended to August 1, 1957.

2. In Article 8(b) of the Contract, the period fixed for royalty payments and liens to secure the payment thereof is extended from ten years to eleven years.

3. In Article 5 of the Contract, the figures "$18,316.00" and "$13,737.00" are substituted for the figures "$9,492.00" and "$7,119.00," respectively.

4. In Exhibit "A", under Description of the Work:

(A) All work provided for in Stages I and II which has not been completed as of the date first above written is hereby cancelled.

(B) New Stages III and IV as described below are added. The Operator shall complete Stage III, and shall, either after completion of Stage III or concurrently, perform as much of Stage IV as the Government approves in writing.

"Stage III

"Stage III consists of: (a) Rotary drilling 13 holes (non-core), aggregating not more than 4,500 feet, to the depths shown beside each hole location marked X on the attached map entitled 'Figure 2. Location of Stage I holes and proposed Stage III holes, Longport claims.' These holes shall be spaced not less than 500 feet apart.

"(b) Rotary drilling 3 holes (non-core), each to a depth of 40 feet, at the locations marked X on the attached map entitled 'Marsh Claim Group, Secs. 32 & 33, T 33 N, R 90 W, Fremont County, Wyoming.' These holes shall be not less than 50 feet from Hole M-11 shown on this map.

"Stage IV

"Stage IV consists of rotary drilling (non-core) not more than 20 holes as approved by the Government, aggregating not more than 6,000 feet. These holes shall be drilled as offsets to holes drilled under Stage III which penetrated significant uranium mineralization on the Longport claims, but not more than four holes, spaced not closer than 150 feet, shall be drilled as offsets to any one Stage III hole."

(C) The General Provisions respecting drilling, sampling, assaying, and bulldozing shall apply to Stages III and IV. In addition, none of the holes drilled under Stage III or Stage IV shall be drilled closer than 100 feet to the outside boundary of the land described in Article 2; and no payment will be made for an incompleted hole.

5. In Exhibit "A", under the heading Estimated Cost of the Project, the Summary at the end of the estimate is deleted, and the following estimates and Summary are added:

"Estimated Costs of Additional Work
(In addition to the maximums set forth in the Contract form, an asterisk indicates a maximum.)

"Stage III

Actual Costs

Category (1) Independent Contracts

4 hours of actual operation time, tractor w/dozer, including operator and all necessary costs @ $12.50/hr.	$ 50.00	
4,620 feet of drilling @ $0.80/ft.	3,696.00	
8 hours stand-by time for hole probing @ $10.00/hr.	80.00	
Categories (2) through (6)	None	
Category (7) Miscellaneous (The only item of cost allowable under this category is sample analyses)		
50 sample analyses @ $3.50*/each sample	175.00	$ 4,001.00

Fixed Unit Costs (See paragraph 6 of this Amendment)

Incidental allowance[1/] for each foot of drilling completed 4,620 feet @ $0.22/ft.	$ 1,016.40	
Estimated Total Cost, Stage III		$ 5,017.40

Stage IV

Actual Costs

Category (1) Independent Contracts

8 hours of actual operation time, tractor w/dozer, including operator and all necessary costs @ $12.50/hr.	100.00	
6,000 feet drilling @ $0.80/ft.	4,800.00	
10 hours stand-by time for hole probing @ $10.00/hr.	100.00	
Categories (2) through (6)	None	
Category (7) Miscellaneous (The only item of cost allowable under this category is sample analyses)		
60 sample analyses @ $3.50*/each sample	210.00	5,210.00

Fixed Unit Costs (See paragraph 6 of this Amendment)

Incidental allowance [1/] for each foot of drilling completed 6,000 feet @ $0.22/ft.		1,320.00
Estimated Total Cost, Stage IV		$ 6,530.00

S U M M A R Y

Estimated Total Cost Stage III	$ 5,017.40
Estimated Total Cost Stage IV	6,530.00
	$11,547.40

Estimated Cost Stages I and II (original contract)		$ 9,492.00
Contract expenditures to date	$ 6,770.00	
Amount unobligated at date of Amendment No. 3	2,722.00	
Estimated total additions to project cost of Amendment No. 3		8,825.40
Estimated Total Cost of Project (rounded)		$18,316.00
Government Participation @ 75%		$13,737.00

1/ Includes all costs that might otherwise be allowable costs of the project under Categories (1) through (6) of Article 6(a), except as otherwise scheduled in Exhibit "A".

6. (a) That part of the last sentence of Article 3 of the Contract 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) of the Contract commencing after the semicolon is deleted.

(c) Categories (2) through (6) do not apply to the costs of work under Stages III and IV.

(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.

Long
Sawyer
F. L. Moore
Ellis
Chamberlain
Selfridge
Johnson

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

(f) Notwithstanding any other provision of the contract, the allowable unit cost per foot of a drilling item is the average unit cost per foot computed on the basis of all the actual unit costs of said drilling item incurred by the Operator: Provided, That the Government will not contribute to any portion of an average unit cost of a drilling item that exceeds the estimated unit cost of said item set forth in the contract.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. C. Mitchendorf
Administrator, Defense Minerals
Exploration Administration

CHARLES M. COLEMAN
J. H. DEIMERLY
ALBERT W. DILLING
LEONARD D. CARMICHAEL
KIRKPATRICK W. DILLING
MABEL E. CARMICHAEL

By Albert W. Dilling
Albert W. Dilling, individually
and as Attorney-in-Fact for
the other above-named persons

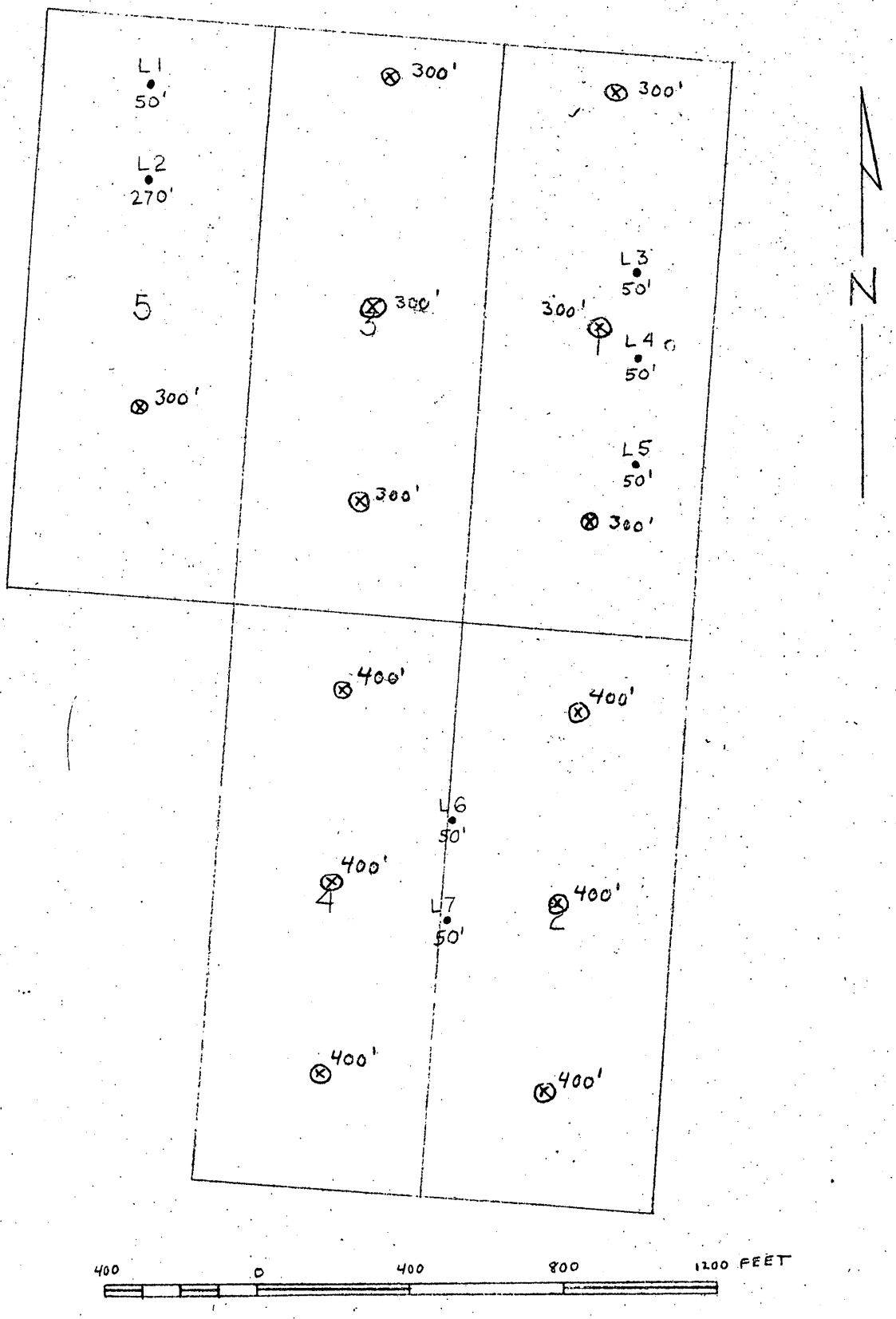

Figure 2. Location of Stage I holes and proposed Stage III holes
Longport claims

Holes L6 and L7 were omitted from memorandum of Feb. 21, 1957.

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OCT - 3 1956

EXPLORATION PROJECT CONTRACT
CHARLES M. COLEMAN AND OTHERS
DOCKET NO. DMEA 4047
CONTRACT NO. Idm-E 943

AMENDMENT NO. 2

It is agreed this 25th day of September, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Charles M. Coleman and Others, hereinafter called the "Operator," parties to that certain Exploration Project Contract No. Idm-E943, Docket No. DMEA 4047, dated April 11, 1956, hereinafter called the "Contract," that the Contract is amended as follows:

1. The date fixed by Amendment No. 1 for completion of the project work is extended from October 1, 1956, to October 15, 1956.

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

Executed in sextuplicate the day and year first above written.

UNITED STATES OF AMERICA

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

CHARLES M. COLEMAN
J. H. DEIMERLY
ALBERT W. DILLING
LEONARD D. CARMICHAEL
KIRKPATRICK W. DILLING
MABEL E. CARMICHAEL

By Albert W. Dilling
Albert W. Dilling,
Individually and as
Attorney in Fact for Other
Above Named Persons.

Docket Copy

EXPLORATION PROJECT CONTRACT
CHARLES M. COLEMAN AND OTHERS
DOCKET NO. DMEA-4047

Amendment No. 1

It is agreed this 10th day of August, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Charles Coleman and Others that Exploration Project Contract Idm-E943, Docket No. DMEA-4047, dated April 11, 1956, is amended effective July 15, 1956, as follows:

1. The date for completion of the work described in the Contract is extended from August 1, 1956, to October 1, 1956.

2. In Exhibit "A" on page 2, all of Stage II is deleted and the following Stage II work is added in lieu thereof.

Stage II

Stage II consists of the following drilling work on the Marsh Group of claims:

(a) Holes Nos. 1, 2, 3, and 4 shall be drilled to an approximate depth of 200 feet each.

(b) Holes 6, 7, 8, 9, and 10 shall be drilled to an approximate depth of 280 feet each.

(c) Either Hole No. M-1 shall be deepened to an approximate depth of 280 feet or Drill Hole No. 5 shall be drilled to an approximate depth of 280 feet.

The locations of the eleven holes are shown on the map entitled "Marsh Group secs. 32 and 33, T. 33 N., R. 90 W., Fremont County, Wyoming," attached hereto and made a part hereof. The total drilling footage under this Stage II shall not exceed 2,500 feet.

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, or the amount of any "maximum."

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. W. Mettendorf
Administrator, Defense Minerals
Exploration Administration

Charles M. Coleman

J. M. Deimerly

Albert W. Dilling

Leonard D. Carmichael

Kirkpatrick W. Dilling

Mabel E. Carmichael

By Albert W. Dilling
Albert W. Dilling, individually
and as Attorney in Fact for
other above-named persons

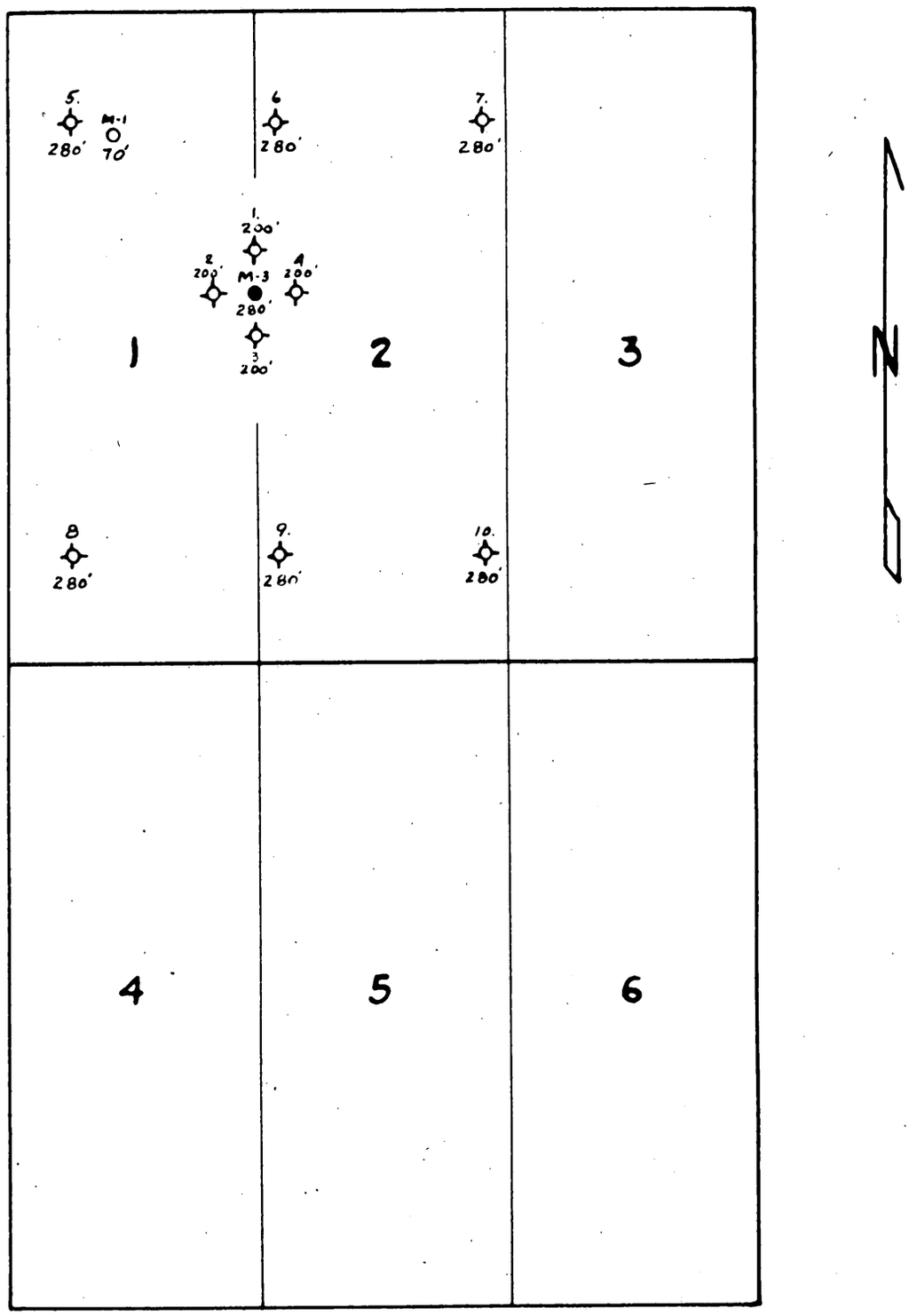
Fedritz 8/6/56
Dunger
"Appd. Sol. Off."
Knowse
Ellis
Chamberlin
Martin
Johnson

DMEA 4047

MARSH GROUP

Secs. 32 & 33, T33N, R90W

Fremont County, Wyoming



Stage I holes drilled

- ● Ore grade mineralization
- ○ Mineralization below ore grade
- ○ Not mineralized

Stage II holes recommended

2
200'

1" = 400'

7-5-56

CHARLES M. COLEMAN and ASSOCIATES

Idm E943

DMEA 4047

Docket Copy

MF-200
(Revised June 1954)

Docket No. DMEA 4047

Commodity Uranium

Contract No. Idm-E 943

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MAY 4 - 1956

Royalty
12 years - Fayd

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

EXPLORATION PROJECT CONTRACT[1]

It is agreed this APR 1 1 1956 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] Charles M. Coleman, J. H. Deimerly, Albert W. Dilling, Leonard D. Carmichael, Kirkpatrick W. Dilling, and Mabel E. Carmichael, [redacted],

whose mailing address is 139 N. Clark Street Chicago 2, Illinois, 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, Figure 2 and Figure 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 Wyoming, County of Fremont, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] owner of [5] entire interest in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of [6] three deeds, [7] recorded in Book 112, pages 178, 180 & 183 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: 6 percent overriding royalty interest

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

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

of the land (lessor, seller, optionor, etc.), are attached, as follows: Subordination Agreements of Irving L. Marshack, Don Londer, Robert W. Utter, and Charles Lesnick

(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 11, 1956, shall commence the work, and on or before August 1, 1956 (unless the Operator's obligation to prosecute the work is terminated—see Article 10) shall either have completed the work or shall have incurred allowable costs (see Article 6) in a sum not less than the estimated total allowable cost set forth in Exhibit "A."

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

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

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

ARTICLE 5. *Contribution by the Government.*—The estimated total allowable cost of the project, set forth in Exhibit "A," is the sum of $9,492.00. The Government shall contribute 75 percent of the allowable costs as they are incurred in a total sum not in excess of $7,119.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last

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

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

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

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

CATEGORY (2)—PERSONAL SERVICES.

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

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

Subcategory (c)—Labor.

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

CATEGORY (4)—OPERATING EQUIPMENT.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Executed in sextuplicate the day and year first above written.

Charles M. Coleman [redacted]
Charles M. Coleman

J. H. Deimerly [redacted]
J. H. Deimerly

Albert W. Dilling [redacted]
Albert W. Dilling

By Kirkpatrick W. Dilling [redacted]
Kirkpatrick W. Dilling

Leonard D. Carmichael [redacted]
Leonard D. Carmichael

Mabel E. Carmichael [redacted]
Mabel E. Carmichael

THE UNITED STATES OF AMERICA

By O P Mitchendorf
Administrator, Defense Minerals
Exploration Administration

Dudritz 3/29/56
Dunyard
"Appd. Sol. Off."
I L Kenyon
Ellis
Chandler
Selfridge
H J Johnson

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

.....

[CORPORATE SEAL]

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

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.*—

EXPLORATION PROJECT CONTRACT
CHARLES M. COLEMAN, J. H. DEINERLY, ALBERT W. DILLING
LEONARD D. CARMICHAEL, KIRKPATRICK W. DILLING, AND MABEL E. CARMICHAEL, [redacted]
DOCKET NO. DMRA-4047

ANNEX I

The land referred to in Article 2 of the Contract consists of 23 unpatented lode mining claims known as the Clyde, Marsh and Longport Groups, situated in Fremont County, Wyoming, as follows:

Clyde Group - 12 claims in secs. 15, 22 and 23, T. 32 N., R. 91 W., 6th P.M.

Marsh Group - 6 claims in secs. 32 and 33, T. 33 N., R. 90 W., 6th P.M.

Longport Group - 5 claims in secs. 27 and 34, T. 33 N., R. 90 W., 6th P.M.

Notices of location of the foregoing groups of claims are recorded in the Office of the Recorder of Fremont County at Lander, Wyoming, as follows:

Claim	Book No.	Page No.	Amended Notices of Location Book	Page
Clyde No. 7	78	474		
Clyde No. 8	78	475		
Clyde No. 9	78	476		
Clyde No. 10	78	477		
Clyde No. 11	78	478		272
Clyde No. 12	78	479	86	thru
Clyde No. 13	78	480		277
Clyde No. 14	78	481		
Clyde No. 15	78	482		
Clyde No. 16	78	483		
Clyde No. 17	86	278		
Clyde No. 18	86	279		
Marsh No. 1	59	418		
Marsh No. 2	59	419		264
Marsh No. 3	59	420	86	thru
Marsh No. 4	59	421		269
Marsh No. 5	59	422		
Marsh No. 6	59	423		

Claim	Book No.	Page No.	Amended Notices of Location Book	Page
Longport No. 1	59	413		
Longport No. 2	59	414		280
Longport No. 3	59	415	86	thru
Longport No. 4	59	416		284
Longport No. 5	59	417		

These claims are shown on the map entitled, "Fig. 2 Exploration Map Showing Geology, Locations of Clyde, Longport, Marsh, and Prince Claim Groups, Charles M. Coleman and Associates, Fremont Co., Wyo. MMRA 4047," attached hereto and made a part hereof.

MF-201
Revised March 24, 1955

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

SUBORDINATION AGREEMENT

To the United States of America:

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

Unpatented lode mining claims located in Secs. 27 and 34, T. 32 N., R. 90 W. known as the Longpert Group of claims Nos. 1-5 inclusive, notices of location recorded in Book 99, Pages 413 thru 417; amended notices of location recorded in Book 96, Pages 230 thru 234 in the official records of said county.

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

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

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

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

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

(OVER)

Dated this 11th day of April, 1956.

Irving L. Marshack [Seal] Charles Lesnick (Seal)
Irving L. Marshack Charles Lesnick

Don Lander [Seal]
Don Lander

Robert W. Utter [Seal]
Robert W. Utter

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

_____

[Corporate Seal]

MF-201
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator CHAS. F. COLEMAN & ASSOCS.
Docket No. DMEA-[illegible]
Contract No. Idm-E
Contract Date

SUBORDINATION AGREEMENT

To the United States of America:

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

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

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

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

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

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

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

(OVER)

Dated this 26th day of March, 1956.

Irving V. Marshack [Seal]

Irving V. Marshack

_____ [Seal]

_____ [Seal]

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

_____

[Corporate Seal]

ANNEX II

Claims	Notices of Location Book	Notices of Location Page	Amended Notices of Location Book	Amended Notices of Location Page
Clyde Group of claims Nos. 7-18 inclusive, located in Secs. 15, 22, 23, and 24, T. 32 N., R. 91 W.	78 86	474 thru 483 276 and 279	86	272 thru 277
Marsh Group of claims Nos. 1-6 inclusive, located in Secs. 32 and 33, T. 32 N., R. 90 W.	59	418 thru 423	86	264 thru 269

EXPLORATION PROJECT CONTRACT
CHARLES M. COLEMAN, J. E. DETHERLY, ALBERT W. DILLING
LEONARD D. CARMICHAEL, KIRKPATRICK W. DILLING, AND MABEL R. CARMICHAEL, [redacted]
DOCKET NO. DMSA-4047

EXHIBIT "A"

Description of the Work

General Provisions

The purpose of the work is to explore for uranium-bearing ore in areas of radiometric anomaly by trenching and drilling from the surface.

The Operator, with a Model D-7 Caterpillar tractor with dozer or equivalent size unit, shall prepare access roads to drill sites and also the drill sites.

All holes shall be drilled with a rotary drill with a non-coring bit. All trenches shall be excavated with a Model D-7 Caterpillar tractor with dozer, or equivalent size unit.

The work shall be performed in two stages as described below. The Operator shall complete Stage I, and shall, either after completion of Stage I or concurrently, perform as much of Stage II as the Government approves in writing.

The diameter of all drill holes, the location, depth and extent of all trenching, the method of all sampling and sample determinations, and the method of recovering drill cuttings are subject to the approval of the Government.

All drill cuttings shall be recovered by a Duclone, or similar type dust collector, at drilling intervals subject to the approval of the Government. All samples or drill cuttings, except those containing visible mineralization, are to be labeled and stored pending Government examination, and may after such examination and if the Government concurs be discarded by the Operator. All radioactive drill cuttings and trench exposures which show visible uranium mineralization shall be sampled. The samples shall be split into two halves, one-half shall be analyzed chemically for U_3O_8 and the other half shall be furnished to the Government. Not more than 150 samples shall be analyzed chemically for Stage I and not more than 100 samples analyzed chemically for Stage II.

All drill holes shall be probed radiometrically and four copies of each log furnished to the Government.

The project shall be directed by a geologist approved by the Government, who shall be employed on a full-time basis, do the required surveying, mapping, sampling, and prepare all reports required under this Contract.

Stage I

Stage I consists of drilling not more than 37 holes aggregating not more than 1,900 feet of hole and excavating not more than 13 trenches aggregating not more than 4,100 feet in length. The location and depth that each hole shall be drilled, and the approximate location and extent that each trench shall be excavated, are shown on the map entitled "Figure 3 - Location Map of Stage I Exploration, Clyde, March and Longport Claims, Charles H. Coleman and Associates, Fremont County, Wyo. MMMA 1047," attached hereto and made a part hereof.

Stage II

Stage II consists of drilling an aggregate of not more than 2,500 feet of holes at locations that have the prior approval of the Government. These holes shall be spaced as follows:

1. Not closer than 100 feet back from the edge of the promontory where ore-grade mineralization is exposed by Stage I trenching;

2. Not more than four holes spaced not closer than 100 feet from any Stage I hole that penetrated ore-grade mineralization; and

3. None of the above holes shall be drilled closer than 100 feet to the outside boundary of the property.

The maximum depth that holes shall be drilled is as follows:

Clyde Claim Group	120 feet
March Claim Group	120 feet
Longport Claim Group	90 feet

Estimated Cost of Project

(In addition to expenses set forth in Article 6, an asterisk indicates maximum.)

Stage I

Actual Costs

Category (1) Independent Contracts

96 hours of actual operation time, tractor with dozer, including operator and all necessary costs @ $13.00/hr. $1,196.00

1,960 feet of drilling @ $1.00/ft.	$1,960.00	$3,156.00	

Category (2) Personal Services

Subcategories (a) and (b) Supervision and Technical Services

1 Supervising Geologist @ $600/mo., 1 month	$600.00		
1 Sampler @ $1.75/hr. plus time and one-half rate over 40 hrs./wk worked	392.00		
Subcategory (c) Labor			
None		992.00	

Category (3) Operating Materials and Supplies

Sample containers			3.00

Category (4) Operating Equipment

Subcategory (a) Rental			
1 Pickup truck or automobile @ $0.10* per mile, 700 miles	70.00		
Subcategory (b) Purchases			
None			
Subcategory (c) Depreciation			
None		70.00	

Category (5) Rehabilitation and Repairs

None

Category (6) New Buildings, Improvements, Installations

None

Category (7) Miscellaneous

Radiometric hole logging 1,960 feet @ $0.10*/ft.	196.00		
Payroll taxes and insurance	28.00		
Accounting	42.00		
100 Chemical analyses @ $5.00* each sample including freight and/or postage	500.00	766.00	
Estimated Total Cost of Stage I			$4,987.00

Stage II

Actual Costs

Category (1) Independent Contractors

22 hours of actual operating time, tractor with dozer, including operator and all necessary costs @ $13.00/hr.	$ 286.00	
2,500 feet of drilling @ $1.00/ft.	2,500.00	$2,786.00

Category (2) Personal Services

Subcategories (a) and (b) Supervision and Technical Services

1 Supervising Geologist @ $600/mo. 5/6 month	500.00	
1 Sampler @ $1.75/hr. plus time and one-half rate over 40 hrs./wk. worked	385.00	
Subcategory (c) Labor None		$885.00

Category (3) Operating Materials and Supplies

Sample containers		3.00

Category (4) Operating Equipment

Subcategory (a) Rental		
1 Pickup truck or automobile @ $0.10* per mile, 700 miles	70.00	
Subcategory (b) Purchases None		
Subcategory (c) Depreciation None		70.00

Category (5) Rehabilitation and Repairs
None

Category (6) New Buildings, Improvements, Installations
None

Category (7) Miscellaneous

Radiometric hole logging 2,500 feet @ $0.10*/ft.	250.00	

Payroll taxes and insurance	$ 26.00		
Accounting	42.00		
100 chemical analyses @ $5.00* each sample including freight and/or postage	500.00	$ 880.00	
Estimated Total Cost of Stage II			$4,504.00

SUMMARY

Estimated Total Cost of Stage I	$4,987.00
Estimated Total Cost of Stage II	4,504.00
Estimated Total Cost of Project (rounded to)	$9,492.00
Government Participation @ 75%	$7,119.00

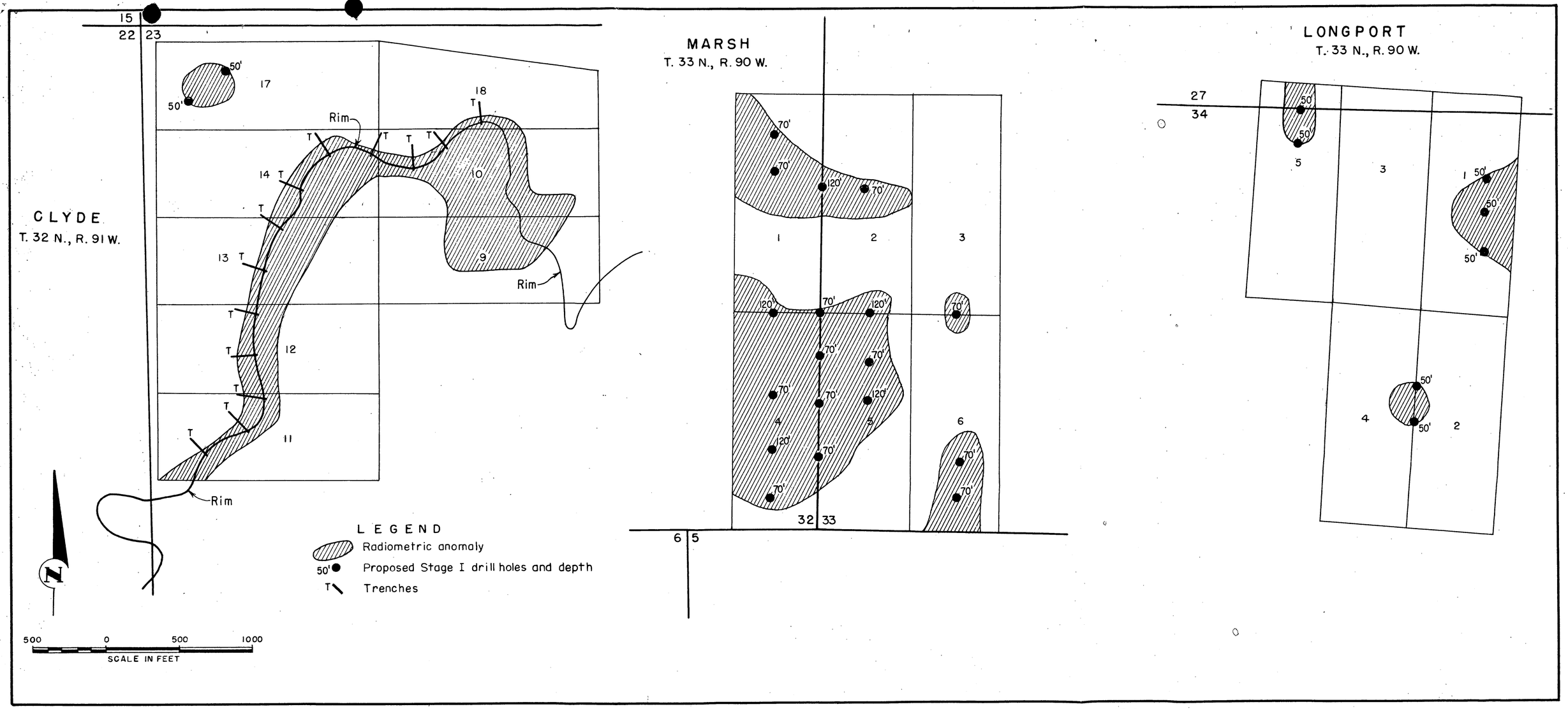

FIGURE 3 - LOCATION MAP OF STAGE I EXPLORATION, CLYDE, MARSH AND LONGPORT CLAIMS, CHARLES M. COLEMAN AND ASSOCIATES, FREMONT COUNTY, WYO. DMEA 4047

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator CHAS. M. COLEMAN & ASSOCS.
Docket No. DMEA- 4047
Contract No. Idm-E
Contract Date

RECEIVED
MAR 12 1956

CONSENT TO LIEN

To the United States of America:

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

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

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

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

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

Overriding royalty interest of 6% on the Clyde and Marsh Groups to Irving L. Marshack.

Overriding royalty interest of 6% on the Longport Group to Irving L. Marshack, Don Londer, Robert W. Utter, and Charles Lesnick.

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

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

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

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

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

5. Added provision: _____

Dated this 6th day of March, 1956.

Charles M. Coleman (Seal)

Albert W. Dilling [Seal]

J. H. Deimerly (Seal)

Kirkpatrick W. Dilling [Seal]

Leonard D. Carmichael [Seal]

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

[Corporate Seal]

ANNEX I

Claims	Notices of Location Book	Notices of Location Page	Amended Notices of Location Book	Amended Notices of Location Page
Clyde Group of claims Nos. 7-18 inclusive, located in Secs. 15, 22, 23, and 24, T. 32 N., R. 91 W.	78 86	474 thru 483 278 and 279	86	272 thru 277
Marsh Group of claims Nos. 1-6 inclusive, located in Secs. 32 and 33, T. 32 N., R. 90 W.	59	418 thru 423	86	264 thru 269
Longport Group of claims Nos. 1-5 inclusive, located in Secs. 27 and 34, T. 32 N., R. 90 W.	59	413 thru 417	86	280 thru 284

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
NOV - 4 1955

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

Not to be filled in by applicant

Docket No. DMEA - 4047
Metal or Mineral Uranium
Date Received 11-4-55
Estimated Cost $37,521.71
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Charles M. Coleman and Associates, 139 N. Clark Street, Chicago, Illinois (a limited joint venture consisting of Charles M. Coleman and the other persons associated with him in the ownership of the properties involved herein; a power of attorney from said associates to Coleman, authorizing him to make this application, is attached hereto as Exhibit "A").

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

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

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

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

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

(*b*) State any mine name by which the property is known. Properties known by claim names.

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

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

(*e*) If you own the land, describe any liens or encumbrances on it See attached addendum sheets.

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

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

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

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

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

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

See Thurston report.

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

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

(*c*) The work will start within 30 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project. None

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project. None intended

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated October 31, 1955

Charles M. Coleman
(Applicant)

By For Charles M. Coleman and Associates
139 North Clark Street
Chicago 2, Illinois

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

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

EXHIBIT "A" (Original)

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Addendum Sheet - 1.

Paragraph 3-a:

The land which it is desired to explore consists of 28 uranium and mineral mining claims located in the Gas Hills area of Fremont County, Wyoming, and divided into four groups of claims, as follows:

1. Clyde group claims Nos. 7 through 18, located in Sections 15, 22, 23, and 24, T32N, R91W of the 6th Principal Meridian; attached hereto as Exhibit "B" is a survey plat of said claims; the legal description of said claims is as follows:

CLYDE GROUP CLAIM No. 7
Described: Beginning at Corner No. 1, thence N. 1° 11' E. 600 feet to Corner No. 2; thence No. 88° 49' W. 1500 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 88° 49' E. 1500 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 3,249 feet south and 2,233 feet West of the NE corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in the S½ of said Section 23.

CLYDE GROUP CLAIM No. 8
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 600 feet to Corner No. 2; thence N. 88° 49' W. 1500 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 88° 49' E. 1500 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 2,649 feet south and 2,221 feet West from the northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in the N½ of said Section 23.

CLYDE GROUP CLAIM No. 9
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 600 feet to Corner No. 2; thence N. 88° 49' W. 1500 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 88° 49' E. 1500 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 2,049 feet south and 2,209 feet West of the Northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim is in the N½ of said Section 23.

CLYDE GROUP CLAIM No. 10
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 600 feet to Corner No. 2; thence N. 88° 49' W. 1500 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 88° 49' E. 1500 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 1,449 feet south and 2,197 feet west of the northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in the north half of said Section 23.

CLYDE GROUP CLAIM No. 11
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 600 feet to Corner No. 2; thence N. 88° 49' W. 1500 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 88° 49' E.

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CHICAGO 2, ILLINOIS

1500 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 3,218 feet south and 3,733 feet west from the northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in the west one-half of said Section 23.

CLYDE GROUP CLAIM No. 12
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 600 feet to Corner No. 2; thence N. 88° 49' W. 1500 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 88° 49' E. 1500 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 2,618 feet south and 3,721 feet west of the northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in the west one-half of said Section 23.

CLYDE GROUP CLAIM No. 13
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 600 feet to Corner No. 2; thence N. 88° 49' W. 1500 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 88° 49' E. 1500 to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 2,018 feet south and 3,709 feet west from the northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in the North one-half of said Section 23.

CLYDE GROUP CLAIM No. 14
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 600 feet to Corner No. 2; thence N. 88° 49' W. 1500 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 88° 49' E. 1500 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 1,418 feet south and 3,697 feet west from the northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in the North half of said Section 23.

CLYDE GROUP CLAIM No. 15
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 600 feet to Corner No. 2; thence N. 68° 21' W. 850 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 68° 21' E. 850 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 1,387 feet south and 5,197 feet west from the northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in the Northwest quarter of said Section 23, the Northeast quarter of Section 22 and the Southeast quarter of Section 15, all in T. 32 N., R. 91 W., 6th P.M.

CLYDE GROUP CLAIM No. 16
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 600 feet to Corner No. 2; thence N. 68° 21' W. 850 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 68° 21' E. 850 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 787 feet south and 5,185 feet west of the northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in the Northwest quarter of said Section 23 and the Northeast quarter of Section 22, adjoining.

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CLYDE GROUP CLAIM No. 17
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 600 feet to Corner No. 2; thence N. 88° 49' W. 1500 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 88° 49' E. 1500 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 818 feet south and 3,685 feet west of the northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in said Section 23.

CLYDE GROUP CLAIM No. 18
Described: Beginning at Corner No. 1; thence N. 1° 11' E. 369 feet to Corner No. 2; thence N. 80° 04' W. 1517 feet to Corner No. 3; thence S. 1° 11' W. 600 feet to Corner No. 4; thence S. 88° 49' E. 1500 feet to Corner No. 1, the point of beginning. Corner No. 1 of this claim is 847 feet south and 2,185 feet west of the northeast corner of Section 23, T. 32 N., R. 91 W., 6th P.M., Fremont County, Wyoming, and this claim lies in said Section 23.

2. Marsh group claims (6 claims), located in Sections 32 and 33, T32N, R90W of the 6th Principal Meridian; attached hereto as "Exhibit 'C'" is a survey plat of said claims; the legal description of said claims is as follows:

MARSH GROUP CLAIM No. 1
Described: Beginning at Corner No. 1, which lies 1500 feet North of the southeast corner of Section 32, T. 33 N., R. 90 W., 6th P.M.; thence N. 1500 feet to Corner No. 2; thence W. 600 feet to Corner No. 3; thence S. 1500 feet to Corner No. 4; thence E. 600 feet to Corner No. 1, the point of beginning. This claim lies in the E½ of Section 32, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

MARSH GROUP CLAIM No. 2
Described: Beginning at Corner No. 1, which lies 1500 feet North and 600 feet East of the southeast corner of Section 32, T. 33 N., R. 90 W., 6th P.M.; thence N. 1500 feet to Corner No. 2; thence W. 600 feet to Corner No. 3; thence S. 1500 feet to Corner No. 4; thence E. 600 feet to Corner No. 1, the point of beginning. This claim lies in the W½ of Section 33, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

MARSH GROUP CLAIM No. 3
Described: Beginning at Corner No. 1, which lies 1500 feet North and 1200 feet East of the Southeast corner of Section 32, T. 33 N., R. 90 W., 6th P.M.; thence N. 1500 feet to Corner No. 2; thence W. 600 feet to Corner No. 3; thence S. 1500 feet to Corner No. 4; thence E. 600 feet to Corner No. 1, the point of beginning. This claim lies in the W½ of Section 33, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

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MARSH GROUP CLAIM No. 4
Described: Beginning at Corner No. 1, which is identical with the southeast corner of Section 32, T. 33 N., R. 90 W., 6th P.M.; thence North 1500 feet to Corner No. 2; thence W. 600 feet to Corner No. 3; thence S. 1500 feet to Corner No. 4; thence E. 600 feet to Corner No. 1, the point of beginning. This claim lies in the E½ of Section 32, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

MARSH GROUP CLAIM No. 5
Described: Beginning at Corner No. 1, which lies 600 feet East of the SE corner of Section 32, T. 33 N., R. 90 W., 6th P.M.; thence North 1500 feet to Corner No. 2; thence W. 600 feet to Corner No. 3; thence S. 1500 feet to Corner No. 4; thence E. 600 feet to Corner No. 1, the point of beginning. This claim lies in the W½ of Section 33, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

MARSH GROUP CLAIM No. 6
Described: Beginning at Corner No. 1, which lies 1200 feet East of the SE corner of Section 32, T. 33 N., R. 90 W., 6th P.M.; thence North 1500 feet to Corner No. 2; thence W. 600 feet to Corner No. 3; thence S. 1500 feet to Corner No. 4; thence E. 600 feet to Corner No. 1, the point of beginning. This claim lies in the W½ of Section 33, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

3. Longport group claims (5 claims), located in Sections 27 and 34, T32N, R90W of the 6th Principal Meridian; attached hereto as "Exhibit 'D'" is a survey plat of said claims; the legal description of said claims is as follows:

LONGPORT GROUP No. 1
Described: Beginning at Corner No. 1, which lies 2,699 feet north and 1,509 feet west of the quarter corner common to Sections 34 and 35, T. 33 N., R. 90 W., 6th P.M., thence N. 86° 04' W. 600 feet to Corner No. 2; thence S. 3° 56' W. 1500 feet to Corner No. 3; thence S. 86° 04' E. 600 feet to Corner No. 4; thence N. 3° 56' E. 1500 feet to Corner No. 1, the point of beginning. This claim lies in the South half of Section 27 and the North one-half of Section 34, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

LONGPORT GROUP No. 2
Described: Beginning at corner No. 1, which is identical with Corner No. 4 of Longport Claim No. 1, and which lies 1202 feet North and 1612 feet W. of the quarter corner common to Sections 34 and 35, T. 33 N., R. 90 W., 6th P.M.; thence N. 86° 04' W. 600 feet to Corner No. 2; thence S. 3° 56' W. 1500 feet to Corner No. 3; thence S. 86° 04' E. 600 feet to Corner No. 4; thence N. 3° 56' E. 1500 feet to Corner No. 1, the point of beginning. This claim lies in the E½ of Section 34, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

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LONGPORT GROUP No. 3
Described: Beginning at Corner No. 1, which is identical with Corner No. 2 of Longport Claim No. 1, and which lies 2,740 feet North and 2,108 feet West of the quarter corner common to Sections 34 and 35, T. 33 N., R. 90 W., 6th P.M.; thence N. 86° 04' W. 600 feet to Corner No. 2; thence S. 3° 56' W. 1500 feet to Corner No. 3; thence S. 86° 04' E. 600 feet to Corner No. 4; thence N. 3° 56' E. 1500 feet to Corner No. 1, the point of beginning. This claim lies in the S½ of Section 27 and in the N½ of Section 34, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

LONGPORT GROUP No. 4
Described: Beginning at Corner No. 1, which is identical with Corner No. 2 of Longport Claim No. 2, and Corner No. 3 of Longport Claim No. 1, and Corner No. 4 of Longport Claim No. 3, and which lies 1,243 feet North and 2,211 feet West of the Quarter corner common to Sections 34 and 35, T. 33 N., R. 90 W., 6th P.M.; thence N. 86° 04' W. 600 feet to Corner No. 2; thence S. 3° 56' W. 1500 feet to Corner No. 3; thence S. 86° 04' E. 600 feet to Corner No. 4; thence N. 3° 56' E. 1500 feet to Corner No. 1, the point of beginning. This claim lies in the center of Section 34, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

LONGPORT GROUP No. 5
Described: Beginning at Corner No. 1, which is identical with Corner No. 2 of Longport Claim No. 3, and which lies 2,781 feet North and 2,707 feet West of the quarter corner common to Sections 34 and 35, T. 33 N., R. 90 W., 6th P.M., thence N. 86° 04' W. 600 feet to Corner No. 2; thence S. 3° 56' W. 1500 feet to Corner No. 3; thence S. 86° 04' E. 600 feet to Corner No. 4; thence N. 3° 56' E. 1500 feet to Corner No. 1, the point of beginning. This claim lies in the South half of Section 27 and the North half of Section 34, T. 33 N., R. 90 W., 6th P.M., Fremont County, Wyoming.

4. Prince group claims Nos. 1 through 5, located in Sections 19 and 20, T33N, R90W of the 6th Principal Meridian; attached hereto as "Exhibit 'E'" is a survey plat of said claims; the legal description of said claims is as follows:

PRINCE GROUP MINING CLAIM No. 1
Described: Commencing at the West one-quarter corner of Section 20, T. 33N., R. 90W., 6th P.M., thence N. 45° 15' E. 370 feet; thence N. 88° 15' E. 900 feet; thence N. 1° 45' W. 300 feet, to the Northwest corner, the point of beginning; thence N. 88° 15' E. 600 feet to the Northeast corner; thence S. 1° 45' E. 1500 feet to the Southeast corner; thence S. 88° 15' W. 600 feet to the Southwest corner; thence N. 1° 45' W. 1500 feet to the Northwest corner, the point of beginning. This claim lies in Section 20, T. 33N., R. 90W., 6th P.M.

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PRINCE GROUP MINENG CLAIM No. 2
Described: Commencing at the West one-quarter corner of Section 20, T. 33N., R. 90W., 6th P.M., thence N. 45° 15' E. 370 feet; thence N. 88° 15' E. 900 feet; thence N. 1° 45' W. 300 feet to the Southwest corner, the point of beginning; thence N. 1° 45' W. 1427 feet to the Northwest corner; thence due East 600 feet to the Northeast corner; thence S. 1° 45' E. 1407 feet to the Southeast corner; thence S. 88° 15' W. 600 feet to the Southwest Corner, the point of beginning. This claim lies in Section 20, T. 33N., R. 90W., 6th P.M.

PRINCE GROUP MINING CLAIM No. 3
Described: Commencing at the West one-quarter corner of Section 20, T. 33N., R. 90W., 6th P.M., thence N. 45° 15' E. 370 feet; thence N. 88° 15' E. 600 feet; thence N. 1° 45' W. 300 feet to the Southwest corner, the point of beginning; thence N. 1° 45' W. 1434 feet to the Northwest corner; thence due East 300 feet to the Northeast corner; thence S. 1° 45' E. 1427 feet to the Southeast corner; thence S. 88° 15' W. 300 feet to the Southwest corner, the point of beginning. This claim lies in Section 20, T. 33N., R. 90W., 6th P.M.

PRINCE GROUP MINING CLAIM No. 4
Described: Commencing at the West one-quarter corner of Section 20, T. 33N., R. 90W., 6th P.M., thence N. 45° 15' E. 370 feet to the Southwest Corner, the point of beginning; thence N. 1° 45' W. 1500 feet to the Northwest corner; thence N. 88° 15' E. 600 feet to the Northeast corner; thence S. 1° 45' E. 1500 feet to the Southeast corner; thence S. 88° 15' W. 600 feet to the Southwest corner, the point of beginning. This claim lies in Section 20, T. 33N., R. 90W., 6th P.M.

PRINCE GROUP MINING CLAIM No. 5
Described: Commencing at the West one-quarter corner of Section 20, T. 33N., R. 90W., 6th P.M., thence N. 45° 15' E. 370 feet to the Southeast corner, the point of beginning; thence S. 88° 15' W. 600 feet to the Southwest corner; thence N. 1° 45' W. 1500 feet to the Northwest corner; thence N. 88° 15' E. 600 feet to the Northeast corner; thence S. 1° 45' E. 1500 feet to the Southeast corner, the point of beginning. This claim lies in Section 19 and 20, T. 33N., R. 90W., 6th P.M.

Paragraph 3-c:

Charles M. Coleman and the others for whom he makes this application are the owners of the claims. Ownership is held in the following percentages:

CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
139 NORTH CLARK STREET
CHICAGO 2, ILLINOIS

Addresses of various applicants

Addendum Sheet - 7.

Clyde, Marsh and Longport groups

Charles M. Coleman 139 North Clark Street Chicago 2, Illinois	Undivided 31.66%
J. H. Deimerly 1207 Benton Street Rockford, Illinois	Undivided 31.66%
Albert W. Dilling 4721 Malden Street Chicago, Illinois	Undivided 15.84%
Kirkpatrick W. Dilling 450 Lee Road Northbrook, Illinois	Undivided 15.84%
Leonard D. Carmichael and Mabel E. Carmichael, husband and wife, as joint tenants Rochelle, Illinois	Undivided 5.00%

Prince group

Charles M. Coleman 139 North Clark Street Chicago 2, Illinois	Undivided 25%
J. H. Deimerly 1207 Benton Street Rockford, Illinois	Undivided 25%
Albert W. Dilling 4721 Malden Street Chicago, Illinois	Undivided 12.5%
Charlotte N. Dilling 4721 Malden Street Chicago, Illinois	Undivided 12.5%
Kirkpatrick W. Dilling and Elizabeth T. Dilling, husband and wife, as joint tenants 450 Lee Road Northbrook, Illinois	Undivided 12.5%
Agnes F. Sahland 2328 North Lincoln Park West Chicago, Illinois	Undivided 12.5%

CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
139 NORTH CLARK STREET
CHICAGO 2, ILLINOIS

Addresses: Pub. Agt
signed

Bernard J. Moorehead
endorsed

Paragraph 3-e:

There are no liens or encumbrances on the properties involved herein. There are, however, overriding royalty interests in connection with each property, as follows:

1. Clyde group - Six per cent (6%) overriding royalty interest held by Mr. Irving L. Marshack, 1325 Commerce Street, Longview, Washington;

2. Marsh group - Six per cent (6%) overriding royalty interest held by Mr. Marshack;

3. Longport group - Six per cent (6%) overriding royalty interest held jointly by Mr. Marshack, Don Londer, Robert W. Utter, and Charles Lesnick;

4. Prince group - Four and one-quarter per cent (4¼%) overriding royalty interest held jointly by Mr. Charles M. Massey and Mr. William H. Johnstone, 221 East Main Street, Riverton, Wyoming.

Paragraph 3-f:

Charles M. Coleman and the others for whom he makes this application acquired their ownership of the properties in question from the original locators, said locators being, in each instance, the present holders of the overriding royalty interests shown in response to Paragraph 3-e.

Pertinent documents appear as follows in the mining records of Fremont County, Wyoming:

Claim Group	Notice of Location		Amended Notices of Location		Deed of Conveyance to Present Owners	
	Book	Pages	Book	Pages	Book	Page
Clyde	78	474 thru 483	86	272 thru 277	112	180
	86	278 and 279				
Marsh	59	418 thru 423	86	264 thru 269	112	178
Longport	59	413 thru 417	86	280 thru 284	112	183
Prince	76	133 thru 137	93	519 thru 523	117	121

CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
139 NORTH CLARK STREET
CHICAGO 2, ILLINOIS

Power of Attorney

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That J. H. DEIMERLY (of Rockford, Winnebago County, Illinois), CHARLES M. COLEMAN (of Chicago, Cook County, Illinois), KIRKPATRICK W. DILLING (of Northbrook, Cook County, Illinois), and LEONARD D. CARMICHAEL and MABEL E. CARMICHAEL (of Rochelle, Ogle County, Illinois) have made, constituted and appointed, and by these presents do make, constitute and appoint ALTON G. HARRAG, 130 North Clark Street, Chicago, Illinois, their true and lawful ATTORNEY for them and in their names, place and stead to act as the agent of the said persons in all matters connected with the United States Department of the Interior, Defense Minerals Exploration Administration, Contract Idm-E943, Docket No. DMEA 107-7, and in behalf of said persons to submit to the Government all necessary reports and information required under said Contract; and said Agent is authorized to receive, individually, and to receipt for, any monies that are now or may hereafter become due to said persons by reason of said Contract No. Idm-E943.

Executed this 24th day of April, 1956.

J. H. Deimerly (SEAL)
J. H. Deimerly

Charles M. Coleman (SEAL)
Charles M. Coleman

Kirkpatrick W. Dilling (SEAL)
Kirkpatrick W. Dilling

Leonard D. Carmichael (SEAL)
Leonard D. Carmichael

Mabel E. Carmichael
Mabel E. Carmichael

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, [illegible] OLSON, a Notary Public in and for, and residing in the said County, in the State aforesaid, DO HEREBY CERTIFY, that J. [illegible] DEIGHTON, CLARENCE E. COLEMAN, and [illegible] [illegible] personally known to me to be the same persons whose names are subscribed to the foregoing instrument appeared before me this day in person, and acknowledged that they signed, sealed and delivered the said instrument as their free and voluntary act, for the uses and purposes therein set forth.

GIVEN under my hand and notarial seal, this 24th day of April, A.D. 1956.

Ingvald E. Olson

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, Hazel M. Elliott, a Notary Public in and for, and residing in the said County, in the State aforesaid, DO HEREBY CERTIFY, that LEONARD D. CARMICHAEL and NADELL E. CARMICHAEL, personally known to me to be the same persons whose names are subscribed to the foregoing Instrument appeared before me this day in person, and acknowledged that they signed, sealed and delivered the said Instrument as their free and voluntary act, for the uses and purposes therein set forth.

GIVEN under my hand and notarial seal, this 26 day of April, 1956.

Hazel M. Elliott

REPORT ON CLYDE, MARSH, LONGPORT, AND PRINCE GROUPS OF CLAIMS

IN CONNECTION WITH APPLICATION

OF

CHARLES M. COLEMAN, et. al.,

FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1,

UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

by

RALPH H. THURSTON

August, 1955

CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
139 NORTH CLARK STREET
CHICAGO 2, ILLINOIS

REPORT ON CLYDE, MARSH, LONGPORT, AND PRINCE GROUPS OF CLAIMS

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by

RALPH H. THURSTON

August, 1955

INTRODUCTION

As the following report is intended as an exhibit toward, and an attachment to an application for aid in an exploration project, pursuant to DMEA Order 1, under the Defense Production Act of 1950, as amended, the normal order of presentation will be altered from the usual sequence to more nearly fit the peculiarities and order of presentation necessary to follow Form MF - 103, Revised April, 1952. The answers to certain definite questions in that form will be made under the apropriate paragraph and sub-paragraph number. Thus, the corresponding paragraph number will be established in this report as a direct answer to the questions posed in Form MF - 103; viz., 4. or other numeral will refer to a corresponding number in Form MF - 103, and sub-paragraph a), b) will refer to a corresponding sub-paragraph under a numerical paragraph notation.

4. a) Other than tractor trenches dug on each claim for the purpose of discovery work, and a few sporadic hand pits, no mining or exploration has been conducted on the Clyde, Marsh, Longport, or Prince groups of claims.

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b) There has been no past or present production. There are no proven ore reserves on the subject groups of claims.

c) The Gas Hills District is the best-known of the uranium-rich areas in Wyoming as a result of much publicity devoted to various discoveries and operations therein. This area is approximately twenty miles long by twelve miles wide, and, considered by any standard, is a large district. Uraniferous ores have been found in every part of the district.

The Gas Hills District is in the southeastern part of the Wind River Basin. The rocks exposed at the surface range in age from Pennsylvanian to Pliestocene, and one formation, the Wind River formation of Eocene age, is of most economic significance.

The Wind River formation is essentially of terrestrial origin, i. e., it was derived from stream-carried sediments that were deposited as stream terrace deposits, as flood-plain deposits, and as near-shore deposits in inter-montaine lakes. These lakes undoubtedly varied in extent seasonally, and shifted position from time to time. The erosion of several prominent mountainous areas furnished the material that makes up the sediments of the Wind River formation, and lateral gradation is apparent in practically every section of the formation. The composition of the Wind River formation ranges widely from locality to locality, and from unconsolidated silt, sand, and gravel, to well-cemented siltstones, mudstones, sandstones, and conglomerates. Various iron oxides are locally abundant and may form cementing material for the containing sediments.

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The beds comprising the Wind River formation normally have gentle dips, but in certain localities, as near the flanks of the Gas Hills Anticline, they may be tilted as much as ten degrees. It seems likely that at least part of the sediments of the Wind River formation were deposited prior to the end ofthe arching that formed the Gas Hills Anticline. The sediments range in thickness from a few inches near erosional or depositional margins to as much as 1,000 feet (?) near the center of the Wind River Basin.

Ore Deposits

The ore deposits in the Gas Hills District are of several types that may be segregated as follows: deposits containing little organic material and more-than-average amounts of iron oxide; deposits containing little iron oxide and more-than-average amounts of organic material; individual trees or other organic material replaced by secondary uranium minerals; relatively large (usually low tenor) deposits containing both iron oxide and organic material. Of these, the first two and the last types are of most commercial significance.

The deposits were undoubtedly formed from cold stream waters in the form of pitchblende, and were deposited chiefly in the presence of organic material or iron-rich material. It is not clear whether the iron oxides now present were originally present as pyrite or other iron-rich sulfide minerals or if the iron oxide minerals themselves caused the localization of some uranium deposits. It is a known fact that the decomposition of pyrite or other sulfide minerals liberates both hydrogen sulfide and sulphur-dioxide, each of which will cause pitchblende to form from uranium-bearing water. It does appear, however, that iron oxide acts as a fixing agent for some deposits and seems to retard the migration of secondary uranium minerals.

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The areal extent of the deposits thus far explored and developed in the Gas Hills is not great, and those found to date are usually lenses a few acres in extent. Some small, irregular channels of mineralization have been found recently. These channels are from ten to twenty feet in width, and may range from fifty to one hundred feet in length. Two such channels recently visited by the writer are known to contain about 3,000 to 5,000 tons of ore each. The grade of each is well above the minimum economic level, and these deposits will produce enough ore to make them very worthwhile exploration targets, even though they are small and relatively hard to find. The occurrence of uranium deposits in the Gas Hills area is widespread, but in general the deposits of higher grade favor the better-consolidated sediments, usually sandstone or conglomerate. Uranium mineralization has been found in shale beneath overlying sandstone or conglomerate, but such mineralization appears to favor faulted and brecciated areas in the underlying shale and is of secondary importance to the larger and more easily found deposits in the near-surface sandstones and conglomerates. No particular horizon in the Wind River formation is known to be especially favorable for the occurrence of uranium minerals, but it is known that more than one ore horizon may exist in a given locality. The fact that lateral gradation in the sediments is prominent discourages broad or continuous deposits, the area taken as a whole.

The most common ore minerals are uranophane, autunite and meta-autunite, uranospinite, and an un-named but common phosphate uranium mineral of widespread occurrence and considerable economic importance. Less common or rare are pitchblende and carnotite, although both occur in the district. The vanadium content of the Gas Hills ores is universally low.

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Most of the commercial uranium ore deposits in the Gas Hills District are associated with higher-than-average radiation at the surface above the deposits. For this reason, isorad, or radiometric grid-surveying, is considered a valuable aid to the search for ore in the area. Attached hereto, and forming a part of this report, are individual isorad maps for the Clyde, Marsh, Longport, and Prince groups of claims. It will be observed that the interpretation of these maps is somewhat out of the ordinary, and for this reason a note of explanation is warranted:

The normal proceedure in the preparation of isorad maps has been developed in areas of low radiation except in the vicinity of uranium mineralization. In such areas, background is moderately easy to establish, and any reading of twice background intensity is considered an anomaly.

However, in Tertiary sediments such as the Wind River formation, background count is almost universally high and in one location may be two or three times the background of an adjoining location. Certain factors make this a common occurrence in the Gas Hills, the factors being chiefly the type of sediments exposed at the surface, the contained moisture, and the depth from which gamma rays are being emitted from a uraniferous deposit. There is also a valid argument regarding the effect of hard versus soft gamma rays.

An alternate method of interpreting isorad information has been established by the writer. This method has been field tested by drilling, and has proven successful in outlining ore-channel trends, even though used in high-background areas without correspondingly high radiometric readings to indicate anomalies, twice background count being considered an anomalous reading.

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This method consists of arithmetically averaging all of the individual readings in the mapped area to obtain a median of radiation intensity, and the consideration of this median as the breaking point between radiometrically high areas and radiometrically low areas. Thus, it is possible to use very low differences of radiation in the interpretation of high versus low areas, possibly to record the effect of the so-called hard gamma rays, and also to counteract partially the effects of topsoil and miscellaneous overburden.

d) Practically all parts of the Gas Hills area have good accessibility as they are but short distances from a good graded road that reaches from Moneta, Wyoming on U. S. Highway 20 southward into the heart of the Gas Hills District. Thus, the following distances from Moneta hold for the following claim groups: Clyde group - 32 miles, Marsh group - 30 miles, Longport group - 30 miles, and Prince group - 27 miles. The Riverton Ore Purchasing Station, operated for the U. S. Atomic Energy Commission by the American Smelting and Refining Company, is 42 miles west of Moneta.

Operating supplies are available at Riverton and Shoshoni, Wyoming, approximately 72 and 50 miles distant respectively, and heavy equipment supply and maintenance are available at Casper, Wyoming, some 105 miles distant. No living facilities are available in the Gas Hills area, and would have to be provided for other than exploration purposes. House trailers and temporary buildings are presently being used by the bulk of the operators in the area.

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e) Manpower, materials, supplies, equipment, and water are readily available. Power in the form of electricity is not available except through the use of portable generator sets, but adequate machinery either diesel or gasoline powered is available for any purpose.

5. a) Uranium and associated vanadium.

b) It is proposed to explore the Clyde, Marsh, Longport, and Prince groups of claims using rotary drilling with air under pressure to remove the drill cuttings. This method has gained wide acceptance in the general area, and gives reliable results when used in conjunction with a Ducone or similar cyclonic dust collector. Radiometric hole logging using recording equipment is contemplated, and it is also contemplated that all samples will be assayed that indicate a count of three times background - measured at the collar of the hole. It is proposed that the analytical work will be performed by the Brown Assay Laboratory of Grand Junction, Colorado, and that the samples will be forwarded to the laboratory by parcel post.

The following schedule indicates the placement and number of holes for the individual areas on each claim group, with specific reference made to the attached isorad maps for the actual location of the drill holes:

Clyde group.

Area A	- 6	drill holes	@ 45	feet	.....	270 feet
Area B	-14	" "	@ "	"	.....	630 "
	-54	" "	@ 75	"	.....	4050 "
				Total		4950 feet

Marsh group

Area A	-24	drill holes	@ 70	feet	.....	1680 feet
B	-41	" "	@ 70	"	.....	2870 "
C	- 7	" "	@ 70	"	.....	490 "
D	- 9	" "	@ 70	"	.....	630 "
				Total		5670 feet

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Longport group

Area A - 14 drill holes	@ 50 feet	.....	700 feet
B - 5 " "	@ 50 "	.....	250 "
C - 10 " "	@ 30 "	.....	300
		Total	1250 feet

Prince group

Area A - 6 drill holes	@ 30 feet	.....	180 feet
B - 6 " "	@ 30 "	.....	180 "
		Total	360 feet

TOTAL DRILLING - STAGE I 12230 feet

NOTE:

The schedule above outlined is considered adequate for the first, ar Stage I, portion of the drilling program. It is believed that this amount of drilling, together with the isorad information available, is sufficient to outline or indicate ore-channel trends that may be explored further by second and third stage drilling. It will be noted that the grid-spacing of the holes recommended for Stage I approximates 200 feet except where irregularity of the area to be explored (as area A on the Marsh group, for example) makes a slightly closer spacing desirable to prevent blank spots.

Critical data are lacking on the depths to be drilled, but the indicated depths are considered adequate, on the average, and, as these depths are based upon the best geologic evidence available, it is expected that the average depths will not be greatly in error.

The second, or Stage II, portion of the drilling program is recommended on the basis of holes spaced 100 feet between or near holes indicating mineralization drilled in Stage I. As data other than isorad information are lacking, the absolute location of mineralized trends or channels is not known. However, it seems reasonable to expect that as many as 15 percent of the Stage I holes may indicate mineralization, and it is therefore expected that drilling on 100 foot

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centers during Stage II will require approximately two holes on 100 foot centers to each mineralized hole found during Stage I drilling, or that the drill footage allowance for Stage II will approximate 30 percent of the total footage of Stage I. It is obvious that where adjacent Stage I holes show mineralization, only one Stage II hole will be necessary between them, but it is true that isolated Stage I holes with mineralization may need four Stage II holes to indicate the trend of the channel. The total footage necessary during Stage II is estimated to be 3,669 feet.

Following completion of Stage II drilling, it is proposed that additional drilling be done in the third, or Stage III, part of the program. It is proposed that this drilling be done on 50 foot centers as a fill-in between either Stage I or Stage II holes. It is expected that the footage required for Stage III will equal that proposed for Stage II, or an additional 3,669 feet.

As the ore deposits thus far explored in the Gas Hills area are flat lying, none of the drill holes contemplated are angle holes. A truck-mounted rotary drill will be used for the drilling. Such units are operating successfully in the area.

6. a) Independent contracts. It is estimated that the cost per foot of hole drilled will be $ 1.00, using contract drill equipment.

Drill site preparation will be necessary for approximately one-half of the hole locations. It is proposed to contract this work:

13 days x 8 hours @ $ 13.00/hr = $ 1,342.00

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b) One laborer and one junior geologist-engineer are considered an adequate sampling and engineering force for direct supervision of the drilling program. It is recommended that a geologist be retained on a consulting basis to direct the project and evaluate the results of the program. On the basis of an estimated progress of 200 feet per drill-day, six days a week, the cost to the project should be as follows:

Stage I - 12230/200 = 61.3 days
" II - 3669/200 = 18.3 "
" III - 3669/200 = 18.3 "
Total 97.9 days = 4.08 - 24 day months

Cost

Labor - 40 hrs. @ 1.75/hr + 8 hrs. @ 2.525/hr x 4 x 4.08 = $ 1,472.06

Supervision - (Hole logging, engineering, supervision, etc.)
4.08 months x $ 400.00 = 1,632.00

Consultant - 4.08 months x $ 500.00 = 2,040.00
Total $ 5,144.06

c) It is considered that one automobile will be necessary to transport the crew and samples to and from the field, and that this vehicle will be driven about 400 miles per week. On this basis, the cost is estimated as:

400 mi./wk. @ $ 0.10/mi. x 4 x 4.08 = $ 652.80

g) Analysis of samples. It is proposed that each sample that shows a radiometric count of three times the background count be chemically assayed, and that samples be taken at 2.5 foot intervals. It is estimated that 15 percent of the samples taken will require analysis, and that the costs will be as follows:

No. of samples = 19568/2.5 x .15 = 1,135 samples

It is also proposed that the samples be assayed by the Brown Assay Laboratory in Grand Junction, Colorado. On this basis, the cost of analytical work and transportation is as follows:

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Cost

1,135 analyses @ $ 3.50 each	=	$ 3,972.50
1,135 sample containers @ .03	=	34.05
1,135 samples parcel post		170.25
	Total	$ 4,176.80

Radiometric logging of the holes using recording equipment is considered desirable. The Minerals Engineering Company, of Grand Junction, Colorado, has quoted a price of $ 0.10 per foot for this service on similar jobs of this size, and it is expected that this quotation will hold for the program under consideration.

Cost

Radiometric logging - 19,568 feet of hole @ $0.10/ft = $ 1,956.80

Other costs. As the itemized costs are based upon the best information available, but are not based upon firm quotations for some of the services, and as the services of labor, geologist, and consultant may vary some from the estimates, an allowance of 10 percent of the total costs- exclusive of the contract drill cost per foot is considered necessary. On the basis of pro-rated costs on a per foot of contemplated drilling, these costs appear to be approximately $ 0.6493 per foot of hole to be drilled. It is therefore considered that an allowance of $ 0.065 per foot be allowed to accomodate possible extra costs.

h) Contingent costs. As the depth of the holes to be drilled is estimated on the basis of the best geologic information available, and as allowances for breakdown time on the part of the drill have not been made, and further as no allowance has been made for increase in per foot costs because of inclement weather, it is proposed that a flat allowance be made equal to 10 percent of the total estimated costs for the project. This allowance will increase the total cost of the project by $ 3,411.28 or, on a per foot basis, $ 0.174 .

A tabulation of cost estimates follows:

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SUMMARY OF COST ESTIMATES

	Stage I			Stage II			Stage III		
	Feet drill	Cost/ft.	Total	Feet drill	C/ft.	Total	Feet drill	C/ft.	Total
Contract Drilling	12230	1.000	12,230.00	3,669	1.000	3,669.00	3,669	1.000	3,669.00
Drill Site Preparation		.069	838.00		.069	252.00		.069	252.00
Labor & Supervision		.263	3,216.49		.263	963.78		.263	963.79
Op. Material & Supp.		.0033	409.00		.0033	121.90		.0033	121.90
Miscellaneous Sample Hand. & Analysis		.214	2,617.22		.214	779.79		.214	779.79
Radiometric Logging		.100	1,223.00		.100	369.90		.100	369.90
Other		.065	793.73		.065	238.12		.065	238.12
Contingencies		.174	2,128.02		.174	641.63		.174	641.63
TOTALS	12230	1.8883	23,455.46	3,669	1.8883	7,033.12	3,669	1.8883	7.033.13

TOTAL OF STAGES I, II, AND III

Contract drilling	$ 19,568.00
Drill Site Preparation	1,342.00
Labor & Supervision	5,144.06
Op. Material & Supp.	652.80
Sample Hand. & Analysis	4,176.80
Radiometric Logging	1,956.80
Other	1,269.97
Contingencies	3,411.28
TOTAL COST	$ 37,521.71

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The best of the mineralized zones thus far exposed in the Gas Hills District tend to occur in broad channels, of which three major and one minor channel, have thus far been found to contain more than one commercial uranium ore deposit. The Clyde group of claims is located in the same channel that has yielded commercial-grade ore from the Blarco, Idiot's Delight, Upetco, and other properties. The Marsh group of claims is located in the same channel that has yielded commercial-grade ore from the Bullrush and Sagebrush claims. The Longport group is located in the southern portion of the channel that has yielded commercial-grade ore from the Lucky Mc, Vitro, and other claim groups in the vicinity. The Prince group of claims is located west-northwest of the junction of the Lucky Mc-Blarco channels, and no commercial production is known to have come from the immediate area.

In view of the proximity of the Clyde, Marsh, and Longport groups to producing properties, and as these claim groups are known to be in the same ore trends or channels known to contain the other commercial deposits, it seems entirely reasonable to expect that commercial-grade uranium ore in significant amounts should occur on the Clyde, Marsh, and Longport claim groups. The drilling proposed and outlined on the attached maps is designed to explore the anomalous areas on these claim groups. A minimum number of holes is recommended on the Prince group to test the anomalies thereon.

Jacob H. Thurston

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Paragraph 5-d:

Applicant Charles M. Coleman, also part-owner of the properties, has over 40 years of experience in the minerals field, principally as an independent oil operator, but with some mining experience gained from operation of a gold mine at Nederland, Colorado (1935-36); Mr. J. H. Deimerly, a part-owner of the properties in question, also has extensive experience as an independent oil operator.

However, for purposes of this application, the experience and background of the applicant and his associates in the minerals field is not vital, since the exploration project is to be placed under the direction of Mr. Ralph H. Thurston, consulting mining engineer and geologist of Lander, Wyoming.

Mr. Thurston, a graduate of the University of Utah in 1937 with a B.S. in Geological Engineering, has had widely-varied experience in the mining industry. From 1937 to 1940 he was employed by the Tintic Standard Mining Co. and subsidiary companies in various capacities, among them geologist, mine foreman and superintendent of Nevada operations. From 1940 to 1941 he served in the capacity of sales engineer and hot milling specialist for the Rock Bit Division, Timken Roller Bearing Co. From 1941 to 1947 he was a consulting geologist as a member of the firm of Walker and Walker Consulting Mining Geologists to the Resurrection Mining Co. of Leadville, Colorado, and Ethyl Corporation of America in New York City. During 1947 and 1948 he was an independent mine lessee in Idaho and from 1948 to 1951 was employed as a project chief, Mineral Deposits Division of the U. S. Geological Survey. In 1951 and 1952 he was both an independent mine lessee in Montana and served as general superintendent of the First Uranium Corporation of Nevada. From March of 1952 until September, 1954, he was a partner in Metallics Unlimited with mining operations in Nevada, Idaho and Wyoming. From September 15, 1954, until recently, he served as General Manager of Mountain Mesa Uranium Corporation, and he is now doing independent consulting work.

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KNOW ALL MEN BY THESE PRESENTS

That J. H. DEIMERLY (of Rockford, Winnebago County, Illinois), ALBERT W. DILLING, CHARLOTTE N. DILLING, and AGNES F. SAHLAND (of Chicago, Cook County, Illinois), KIRKPATRICK W. DILLING, ELIZABETH T. DILLING (of Northbrook, Cook County, Illinois), LEONARD D. CARMICHAEL and MABEL E. CARMICHAEL (of Rochelle, DeKalb County, Illinois) have made, constituted and appointed, and BY THESE PRESENTS do make, constitute and appoint CHARLES M. COLEMAN of the City of Chicago, County of Cook and State of Illinois true and lawful ATTORNEY for them and in their name, place and stead to make an application on their behalf, as well as his own, for aid in an exploration project, pursuant to DMEA Order 1 under the Defense Production Act of 1950, as amended, in connection with the Clyde, Marsh, Longport, and Prince groups of uranium and mineral mining claims, located in the Gas Hills Uranium District, Fremont County, Wyoming, giving and granting unto their said ATTORNEY full power and authority to do and perform all and every act and thing whatsoever, requisite and necessary to be done in and about the premises, as fully, to all intents and purposes, as they might or could do if personally present at the doing thereof, with full power of substitution and revocation, hereby ratifying and confirming all that their said ATTORNEY or his substitute shall lawfully do or cause to be done by virtue hereof.

CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
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CHICAGO 2, ILLINOIS

Exhibit "A"

IN TESTIMONY WHEREOF, They have hereunto set their hands and seals this 7th day of October, 1955.

J. H. Deimerly (SEAL) Agnes F. Sahland (SEAL)
Albert W. Dilling (SEAL) Elizabeth T. Dilling (SEAL)
Charlotte N. Dilling (SEAL) Kirkpatrick W. Dilling (SEAL)
Mabel E. Carmichael (SEAL) Leonard D. Carmichael (SEAL)

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, Ingrid E. Olson, a Notary Public in and for, and residing in the said County, in the State aforesaid, DO HEREBY CERTIFY, that J. H. DEIMERLY, ALBERT W. DILLING, CHARLOTTE N. DILLING, AGNES F. SAHLAND, KIRKPATRICK W. DILLING and ELIZABETH T. DILLING, personally known to me to be the same persons whose names are subscribed to the foregoing Instrument appeared before me this day in person, and acknowledged that they signed, sealed and delivered the said Instrument as their free and voluntary act, for the uses and purposes therein set forth.

GIVEN under my hand and notarial seal, this 7th day of October, 1955.

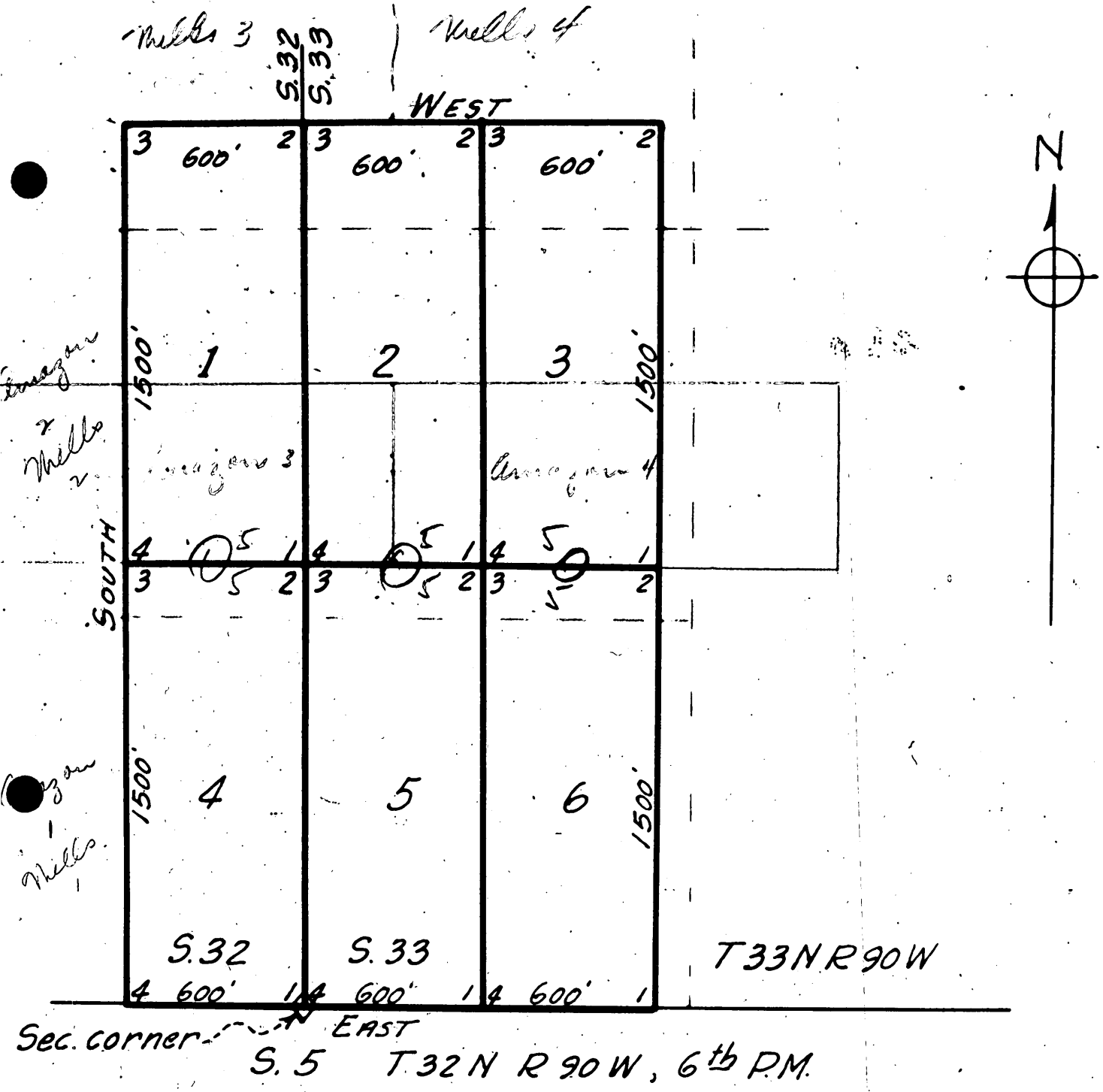
Ingrid E. Olson

STATE OF ILLINOIS)
) SS.
COUNTY OF DGLEAN)

I, William W. Cassel, a Notary Public in and for, and residing in the said County, in the State aforesaid, DO HEREBY CERTIFY, that LEONARD D. CARMICHAEL and MABEL E. CARMICHAEL, personally known to me to be the same persons whose names are subscribed to the foregoing Instrument appeared before me this day in person, and acknowledged that they signed, sealed and delivered the said Instrument as their free and voluntary act, for the uses and purposes therein set forth.

GIVEN under my hand and notarial seal, this 26 day of October, 1955.

William W. Cassel



LOCATION MAP
MARSH GROUP OF TRACTS
FREMONT COUNTY
WYO.

Scale: 1" = 500'

EXHIBIT "C"

CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
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CHICAGO 2, ILLINOIS

A. J. Allard. Wyo. Reg. 133, Mar. 9. 1954

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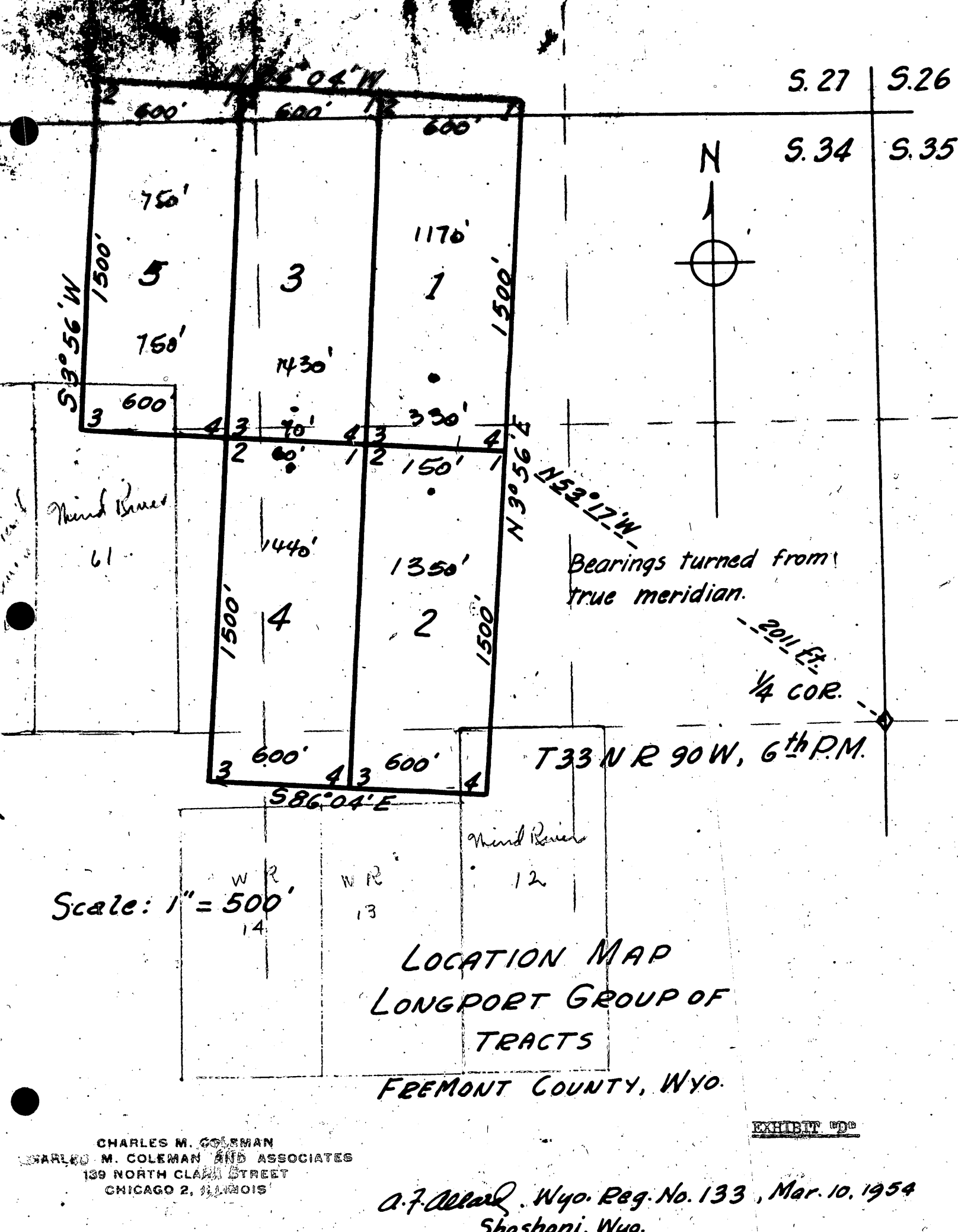
N86°04'W
600'
600'
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S.27
S.26
S.34
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750'
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1500'
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3
1
1170'
1430'
1500'
S3°56'W
600'
330'
70'
60'
150'
N3°56'E
N53°17'W
Bearings turned from true meridian.
Wind River
61
1440'
1350'
1500'
4
2
1500'
2011 Ft.
1/4 COR.
600'
600'
T33N R 90W, 6th P.M.
S86°04'E
Wind River
12
W R
14
W R
13
Scale: 1" = 500'
LOCATION MAP
LONGPORT GROUP OF
TRACTS
FREMONT COUNTY, WYO.
EXHIBIT "D"
CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
139 NORTH CLARK STREET
CHICAGO 2, ILLINOIS
A.J. Allard. Wyo. Reg. No. 133, Mar. 10, 1954
Shoshoni, Wyo.

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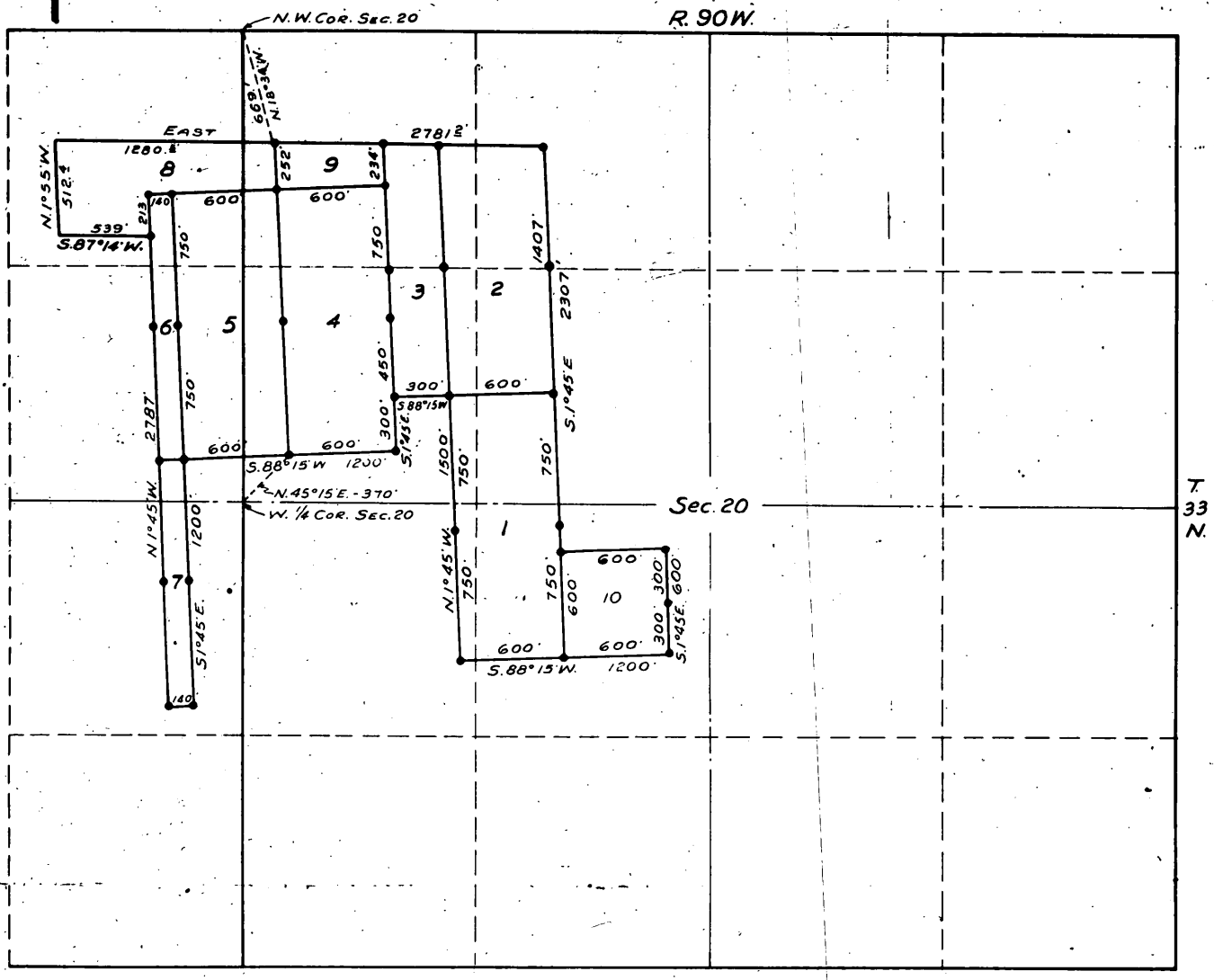

CERTIFICATE OF SURVEYOR

State of Wyoming } S.S.
County of Fremont }

I, C.E. Spurlock Jr. of Lander, Wyo. hereby certify that this map was made from notes taken during an actual survey made by me during Jan. 1955. and that it correctly represents the claims in the Prince Group as staked on the ground during said survey, and that all angles were turned with an Engineers Transit, all distances were measured with a steel tape and bearings were determined by compass

C. E. Spurlock Jr.
Professional Engineer & Land Surveyor
Wyoming License No. 396

Note: Laths were set at claim corners established on this survey, which do not necessarily coincide with 4"x4" claim corners set prior to this survey

N

EXHIBIT "E"

CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
139 NORTH CLARK STREET
CHICAGO 2, ILLINOIS

MAP
SHOWING LOCATION OF THE
LODE MINING CLAIMS IN THE
PRINCE GROUP
IN SEC'S. 19 & 20 - T. 33 N. - R. 90 W.
FREMONT COUNTY, WYO.
Scale 1" = 500'

B. 19 P. 61

RECEIVED
NOV - 4 1955

Docket copy

Project Summary Report

By: F. L. Knouse February 26, 1959

1. Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943

Operator - Charles M. Coleman, J. H. Deimerly, Albert W. Dilling, Leonard D. Carmichael, Kirkpatrick W. Dilling, and Mabel E. Carmichael, an association
139 North Clark Street
Chicago 2, Illinois

Property - Consists of 23 unpatented lode mining claims known as the Clyde, Marsh, and Longport Groups, situated in Fremont County, Wyoming, as follows:

Clyde Group - 12 claims in secs. 15, 22, and 23, T. 32 N., R. 91 W., 6th P.M.& B.

Marsh Group - 6 claims in secs. 32 and 33, T. 33 N., R. 90 W., 6th P.M.& B.

Longport Group - 5 claims in secs. 27 and 34, T. 33 N., R. 90 W., 6th P.M.& B.

The claims are Clyde Nos. 7 through 18; Marsh Nos. 1 through 6; and Longport Nos. 1 through 5.

Property Rights -
Operator is owner; however, Irving L. Marshack, Don Londer, Robert W. Utter, and Charles Lesnick retain an overriding royalty interest. Subordination Agreements signed by the above parties are attached to the contract.

2. Contract date - April 11, 1956 (Long Form)

The project work was started May 5, 1956, and completed June 25, 1958.

Work Authorized -

Consisted of a seven-stage surface trenching and a non-core drilling program from the surface to explore for uranium-bearing ore in areas of radioactive anomaly and also in the upper Wind River formation of lower Eocene age (local uranium-bearing horizon).

2. Contract (continued)

Work Authorized (continued)

Stage I - consisted of drilling 27 holes non-core aggregating not more than 1,960 feet and excavating 13 trenches aggregating not more than 4,100 feet in length.

Stage II - consisted of drilling not more than 2,500 feet of non-core hole at the following locations: (1) 100 feet from promontory where ore-grade mineralization is exposed by the surface trenching, and (2) not more than four holes drilled around any Stage I holes that penetrated ore-grade mineralization, spaced not closer than 100 feet apart.

Stage III - consisted of (a) drilling 13 non-core holes aggregating not more than 4,500 feet, spaced not less than 500 feet apart, on the Longport claims, and (b) drilling 3 non-core holes as offsets around hole M-11, spaced not less than 50 feet apart.

Stage IV - consisted of drilling not more than 20 non-core holes aggregating not more than 6,000 feet as offsets to Stage III holes that penetrated significant mineralization on the Longport claims, spaced not closer than 150 feet apart.

Stage V - consisted of drilling 11 non-core holes aggregating about 6,050 feet in 4 north-south rows, about 1,000 feet apart, with hole spacing about 500 feet apart.

Stage VI - consisted of drilling 10 non-core holes aggregating about 5,500 feet, as offset to previously drilled holes that penetrated significant mineralization, hole spacing to be not closer than 250 feet.

Stage VII - consisted of drilling not more than 10 holes aggregating not more than 5,500 feet as offsets to previously drilled holes that showed significant mineralization, hole spacing to be not closer than 125 feet.

2. (Contract - continued)

Estimated and Completed Cost of the Project Work

Stage I (27 holes)

Actual Cost Basis

Work Items	Est. Cost	Completed Work Units	Completed Work Cost
92 hrs. bulldozing @ $13.00/hr.	$1,196.00	62	$772.00
1,960 ft. non-core drilling @ $1.00/ft.	1,960.00	1,960'	1,372.00
Supervising geologist @ $600.00/mo., 1 mo.	600.00	1	600.00
Sampler @ $1.75/ft.	392.00		392.00
Sample containers	3.00		3.00
Pick-up truck rental, 700 miles @ $0.10/mi.	70.00	700	70.00
1,960 ft. radiometric hole probing @ $0.10/ft.	196.00	1,960'	196.00
Payroll taxes and insurance	28.00		-
Accounting	42.00		42.00
100 chem. sample analyses @ $5.00/sample	500.00	24	84.00
Total Stage I	$4,987.00		$3,534.00

Stage II

22 hrs. bulldozing @ $13.00/hr.	$286.00		-
2,500 ft. non-core drilling @ $1.00/ft.	2,500.00	2,480'	2,032.00
Supervising geologist @ $600.00/mo., 1 mo.	600.00	5/6	500.00
Sampler @ $1.75/hr.	325.00		325.00
Sample containers	3.00		3.00
Pick-up truck rental, 700 miles @ $0.10/mi.	70.00	700	70.00
2,500 ft. radiometric hole logging @ $0.10/ft.	250.00	2,480	248.00
Payroll taxes and insurance	28.00		-
Accounting	42.00		42.00
100 chem. sample analyses @ $5.00/sample	500.00	4	16.00
Total Stage II	$4,504.00		$6,770.00

Total amount Stages I and II reduced to $6,770.00 by Amendment No. 3.

2. Contract (continued)

Estimated and Completed Cost of the Project Work

Stage III

Actual Cost Basis

Work Items	Est. Cost	Completed Work Units	Completed Work Cost
4 hrs. bulldozing @ $12.50/ft.	$50.00	-	-
4,620 ft. non-core drilling @ $0.80/ft.	3,696.00	4,620'	$3,696.00
8 hrs. standby time @ $10.00/hr.	80.00	-	-
50 chem. sample analyses @ $3.50/sample	175.00	3	10.50
Fixed Unit Cost/ft. of drilling			
4,620 ft. @ $0.22/ft.	1,016.40	4,620'	1,016.40
Total Stage III	$5,017.40		$4,722.90

Stage IV

Actual Cost Basis

8 hrs. bulldozing @ $12.50/hr.	$ 100.00	-	-
6,000 ft. non-core drilling @ $0.80/ft.	4,800.00	2,980'	2,384.00
10 hrs. standby time @ $10.00/hr.	100.00	10	100.00
60 chem. sample analyses @ $3.50/sample	210.00	-	-
Fixed Unit Cost/ft. of drilling			
6,000 ft. @ $0.22/ft.	1,320.00	2,980'	665.60
Total Stage IV	$6,530.00		$3,139.60

Total amount Stages III and IV reduced to $7,862.50 by Amendment No. 5.)

	Est. Cost	Completed Work-Cost
brought forward	$10,974.37	$10,974.37
2. Contract (continued)		
Government Participation @ 50% under Stages V, VI, and VII	10,443.00	2,828.86
Total Government Participation	$21,417.37	$13,803.23

Work completed consisted of 7 shallow surface trenches aggregating 4,100 feet, 76 non-core holes aggregating 16,756 feet, and 31 chemical analyses and related work.

Amendments -

No. 1, effective July 15, 1956, extended the com-completion date from August 1, 1956, to October 1, 1956, and changed the number, location, and depth of existing Stage II holes on the Marsh claims.

No. 2, effective September 25, 1956, extended the completion date from October 1, 1956, to October 15, 1956.

No. 3, effective April 19, 1957, extended the completion date from October 15, 1956, to August 1, 1957, and extended the royalty payment period from 10 to 11 years. Also, all uncompleted work under Stages I and II was cancelled, and Stages III and IV were added to be performed on the Longport and Marsh Group of claims. Stage III consisted of 13 holes on the Longport claims aggregating not more than 4,500 feet, and 3 holes, each 40 feet deep, on the Marsh claims. Stage IV consisted of 20 offset holes totaling not more than 6,000 feet of non-core drilling. The total project cost was increased to $18,316.00, with Government participation @ 75%, or $13,737.00.

No. 4, effective July 31, 1957, extends the completion date from August 1, 1957, to September 1, 1957.

No. 5, effective April 28, 1958, suspends work from August 23, 1957, to not later than June 1, 1958, and extends completion date from September 1, 1957, to September 1, 1958. Also extends royalty payment period from 11 to 12 years.

2. Contract (continued)

Estimated and Completed Cost of the Project Work

Stage V

Actual Cost Basis

Work Items	Est. Cost	Completed Work Units	Completed Work Cost
6,050 ft. non-core drilling @ $0.95/ft.	$5,747.50	4,716'	$4,480.20
5 hrs. standby time @ $10.00/hr.	50.00	9	90.00
5 hrs. bulldozing @ $12.50/hr.	62.50	4	50.00
30 chem. sample analyses @ $3.50/sample	210.00	-	-
Fixed Unit Cost/ft. of drilling			
6,050 ft. @ $0.22/ft.	1,331.00	4,716'	1,037.52
Total Stage V	$7,296.00		$5,657.72

Stage VI

Actual Cost Basis

5,500 ft. non-core drilling @ $0.95/ft.	$5,225.00		
5 hrs. standby time @ $10.00/hr.	50.00		
8 hrs. bulldozing @ $12.50/hr.	100.00		
60 chem. sample analyses @ $3.50/sample	210.00		
Fixed Unit Cost/ft. of drilling			
5,500 ft. @ $0.22/ft.	$1,210.00		
Total Stage VI	$6,795.00		None

Stage VII

Same as Stage VI			
Total Stage VII	$6,795.00		None
Est. total cost of the Project	$35,518.50		$20,290.22
Govt. Participation @ 75% under Stages I, II, III & IV	$10,974.37		$10,974.37

Amendments (continued)

No. 5 (continued)

All uncompleted work under Stages I, II, III, and IV was cancelled and new Stages V, VI, and VII were added, thereby increasing the total estimated project cost to $35,518.50, with Government participation for work under Stages V, VI, and VII at 50%. Work under Stages V, VI, and VII was on the Clyde claims. Stage V consisted of 11 holes not to exceed 6,050 feet of drilling; Stages VI and VII each provided for drilling 10 offset holes,with work in each stage not to exceed 5,500 feet non-core drilling.

No. 6, effective May 27, 1958, extended date for suspension of operatsions from June 1, 1958, to June 15, 1958.

Termination Agreement -

Mutually terminated, effective June 26, 1958, and dated September 29, 1958.

Final Reports -

Operator's - dated October 30, 1958, received in Denver office November 7, 1958.
Field Team's - dated January 21, 1959, received in Division February 10, 1959.

3. Audit Report of Review, dated November 10, 1958.

Total cost as billed by Contractor		$20,416.12
Exceptions		125.90
Total Accepted Cost		$20,290.22
75% of $14,632.50 or	$10,974.37	
50% of 5,657.72 or	2,828.86	
Total Government Particiation		$13,803.23

4. Certification, dated March 10, 1958.

The Field Team recommended that the project should be certified and the writer concurs with their recommendation.

4. Certification (continued)

Production

None before or after the DMEA contract was signed.

Ore Reserves

Claim Group	Tons	Percent eU_3O_8	Overburden feet
Marsh	1,550	0.15	28 to 214
Longport	2,770	0.1	212 to 306
Clyde	3,400	0.1	172
Total	7,550	0.12	

The estimates are based on radiometric probe re-results provided by the Operator. Chemical analyses were made of sludge samples from all significantly radiometric zones in holes; however, it appears that the samples were not representative of the generally thin mineralized zones. Drilling was done with water and the samples were from sections deep in each hole, consequently contamination and dilution probably modified the sample.

In the Operator's final report it is stated that "No ore reserves can be computed at present."

5. Comments -

Except for a delay between the completion of Stage I and starting Stage II, the project was conducted in a workmanlike manner. The Operator submitted satisfactory reports (monthly and a final report).

A total of 76 acceptable non-core rotary drill holes aggregating 16,756 feet, 7 shallow surface trenches aggregating 4,100 feet in length, and related work were completed. Thirteen holes were drilled and 7 surface dozer trenches were made on the Clyde group, 32 holes were drilled on the Longport group, and 31 acceptable holes were drilled on the Marsh group.

The project was established to explore large anomalies on the claims. Also, the probability that significant uranium ore bodies occur in the underlying upper member of the Wind River formation ore-bearing conglomerate justified the exploration program.

Uranium deposits in the area are approximately restricted to the upper Wind River or coarse-grained facies of the formation. Uranium minerals generally

5. Comments (continued)

occur as interstitial fillings in irregular-shaped blanket-like bodies, both in oxidized and unoxidized condition. Principal minerals in the oxidized bodies are uranium phosphates, silicates, and hydrous oxides; common minerals in the unoxidized bodies are uraninite and coffinite.

Holes drilled on the Longport and Marsh claims intersected uranium-bearing intervals, some of ore grade in the sandstones and conglomerates of the upper Wind River formation. On the Longport claims, Hole No. L-2 encountered slight mineralization in a zone which may correspond to the Lucky Mac and Vitro ore bodies. On the Marsh group, 7 holes (Nos. M-3, M-4, M-8, M-9, M-11, M-11b, and M-13) likewise encountered mineralization with holes M-3, M-11 and M-11b ore holes. Offset holes drilled around hole M-3 did not encounter significant mineralization. The Clyde group was explored by 13 holes and 7 surface trenches. The dozer trenches exposed no mineralized zones of ore and only one hole cut material of ore grade.

The work completed resulted in the discovery of the ore reserves listed above. Also, since significant ore reserves have been discovered, the certification of discovery was warranted. However, since overburden covering these ore bodies ranges from 27 to 306 feet, the mining of these reserves will not be economical at current market rates.

It is recommended that no further exploration work with Government assistance be approved for this property.

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 **Charles M. Coleman, et al**		Actual Cost	✓
State **Wyoming**		Agreed Unit Cost	
Final Report of Audit		Commodity **Uranium**	Docket No. **DMEA-4047**
Final Report of Review	X		Contract No. **Idm-E943**

Operation	Authorized by Contract and Amendments		Completed		Net cost after sale of Government Property
	Units	Cost	Units	Cost	
Drifting & Crosscutting					
Raising					
Shafts					
Winzes					
Drilling rotary non-core (Specify)	32110	$31,714.00	16,256'	$19,354.72	$19,354.72
Surface Excavation					
Underground Excavation					
Roads ~~and~~ Trails + Trenches.		1,894.50		825.00	825.00
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify) 460 Sample analyses		1910.00		110.50	110.50
Totals		$35,518.50		$20,290.22	*$20,290.22

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

Complete
~~(Incomplete)~~

Prepared by Kuoma Date 11-25-58

31398

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

December 27, 1957

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DMEA
RECEIVED DEC 30 1957

DATE		CODE
12/30	C	220
12/10	FLK	700

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4047 (Uranium) Contract Idm-E943, Charles M. Coleman and Associates, (Clyde, Marsh and Longport Groups of claims) Fremont County, Wyoming

Enclosed are the following self-explanatory letters regarding termination of the subject contract:

1. Two copies of a letter dated December 23, 1957, from Albert W. Dilling, the Operator's agent.

2. Two copies of a letter dated December 24, 1957, from Robert Ford, the Operator's Geologist.

W H King
W. H. King

Enclosures

MINING GEOLOGIST

PETROLEUM GEOLOGIST

FORD & FOX
Consulting Geologists
206 S. BROADWAY
RIVERTON, WYOMING

P.O. BOX 428

UL6-3468

December 24, 1957

N.O.

DMEA
DEPARTMENT OF THE INTERIOR
1957
REGION III
DENVER, COLORADO

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

Re: Docket No. DMEA 4047
Contract No. Idm-E 943
Charles M. Coleman and Associates

Dear Mr. King:

Thank you for the copy of Mr. Dillings letter of December 19, 1957 in regard to the "Termination Agreement" and the Clyde claims.

At present both Western Nuclear Corporation and Federal Uranium Company are drilling on the Clyde claims, as a portion of the group not under lease to Coleman, and the Bret and Day claims immediately adjoining.

It has been my mission to gather this information and incorporate it into a formal request for continuance of the subject contract. Quite frankly the detailed information has been hard to get as is usual in mining. However, I feel that the factual information is most necessary and we are still attempting to gather this with all due dispatch. It is my opinion that we should consider reopening the contract on the information now at hand.

Sincerely,

Robert Fox

RF:cb
CC: Dilling and Dilling
Attorneys at Law
139 North Clark Street
Chicago, Illinois

I meant to discuss this with you at our meeting but the Mallette project took all available time.

Thanks

DMEA
DEPARTMENT OF THE INTERIOR
DEC 26 1957
REGION III
DENVER, COLORADO

DILLING AND DILLING
ATTORNEYS AT LAW
139 NORTH CLARK STREET
CHICAGO 2

ALBERT W. DILLING
KIRKPATRICK W. DILLING

TELEPHONE
CENTRAL 6-8417

December 23, 1957

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

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Idm-5943

Dear Mr. King:

Your letter of December 19th was received today.

I regret that we have not advised you sooner concerning executing the termination agreement or submitting a new proposal. However, it is my understanding that Mr. Ford has been holding matters up pending the receipt of some final information which would prove helpful to DMEA in evaluating the situation.

We did hear from Mr. Ford several days ago, and it appears to be his opinion that approval of further work on the Clyde claims should be sought, because of the tremendous possibilities of the property. He advised, also, that he intended to contact your office immediately upon completing his survey. You should therefore be hearing from Mr. Ford at any time.

Yours very truly,

Albert W. Dilling

AWD: hm
Copy to Mr. Ford.

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DMEA
RECEIVED DEC 23 1957

DATE	INITIALS	CODE
12/23	gr	220
12/27	[illegible]	800
11	[illegible]	700

224 New Customhouse
Denver 2, Colorado

December 19, 1957

Mr. Albert W. Dilling
Attorney in Fact
Charles M. Coleman and Associates
139 North Clark Street
Chicago 2, Illinois

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh, and Longport Groups
of claims), Fremont County, Wyoming

Dear Mr. Dilling:

Considerable time has elapsed since our letter to you of November 15, 1957.

We will appreciate advice by return mail as to your plans relative to executing the TERMINATION AGREEMENT or submitting a request for the Government's consideration for approval of additional work on the Clyde Group of claims.

Very truly yours,

Original signed by
W. H. KING

W. H. King
Executive Officer
DMEA Field Team, Region III

cc: Mr. Robert Ford
P. O. Box 428
Riverton, Wyoming

JWT:prl

cc: Chmn. Op. Comm. (2)
Harshman
DMEA/DFC (Binyon)
Corres. file
Townsend
Chron.

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

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DATE	INITIALS	CODE
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"	FLK	700

November 22, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport groups of claims), Fremont County, Wyoming

Enclosed are two copies of the Operator's letter of November 18, 1957, in conjunction with letter from this office to the Operator, dated November 21, two copies of which were forwarded to you.

E. N. Harshman

E. N. Harshman

Enclosures

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DATE | INITIAL | CODE
11/25 | C | 220
11/25 | | 800
11 | E-4/C | 700

224 New Customhouse
Denver 2, Colorado

November 21, 1957

Mr. Robert Ford
P. O. Box 428
Riverton, Wyoming

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh, and Longport groups
of claims), Fremont County, Wyoming

Dear Mr. Ford:

In your letter of November 18, 1957, you ask certain questions regarding action by the Government if you request additional exploration on the Clyde group of claims.

Additional work on the Clyde group will require Washington approval, since the contract as amended does not provide for such work.

With little or no knowledge of the extent or character of the exploration which you may propose on the Clyde group, I cannot give you a positive answer on the percent. of Government participation. If your proposed exploration work requires funds in addition to those available under the present amended contract, I am relatively certain that Government participation, if approved, would be at the 50 percent. figure. If, on the other hand, the unexpended funds are adequate to complete your proposed work, and that work is approved by the Government, the Government may participate at the 75 percent. rate.

The final decision as to the amount of Government participation on any exploration work approved on the Clyde group of claims must await receipt of your proposal.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

ENH:prl

cc: Chmn. Op. Comm. (2)
Harshman
DMEA/DFC
Townsend
Corres. file
Chron.

[redacted]

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RECEIVED NOV 18 1957
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11/18 | [illegible] | 700

224 New Customhouse
Denver 2, Colorado

November 12, 1957

Mr. Albert W. Dilling
Attorney in Fact
Charles M. Coleman and Associates
c/o Dilling & Dilling
Attorneys at Law
139 North Clark Street
Chicago, Illinois

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh, and Longport Group
of claims), Fremont County,
Wyoming

Dear Mr. Dilling:

Enclosed are the Government's, Audit, Finance Office, and Field Team copies of a proposed TERMINATION AGREEMENT, which was prepared in Washington and has been signed by the Acting Administrator, DMEA, to terminate Contract No. Idm-E943, effective August 23, 1957, as requested in the Operator's narrative report accompanying Form MV-104 for the month of August, 1957.

If the Termination Agreement is satisfactory, all copies are to be signed by you as indicated and all copies promptly returned to this office; upon receipt of which the "Operator's Copy" will be forwarded to you.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

cc: Mr. Robert Ford
P. O. Box 428
Riverton, Wyoming

JWT:prl
cc: Chmn. Op. Comm. (2)
Harshman
DMEA/DFC (Binyon)
Townsend
Corres. file
Chron.

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 18 1957

DATE	INITIALS	CODE
11/18	gr	220
11/18	[illegible]	800
		700

224 New Customhouse
Denver 2, Colorado

November 15, 1957

Mr. Albert W. Dilling, Attorney in Fact
Charles M. Coleman and Associates
139 North Clark Street
Chicago 2, Illinois

Re: Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh and Longport groups of claims) Fremont County, Wyoming

Dear Mr. Dilling:

In reference to your letter of November 14, 1957, you may defer temporarily the execution of the Termination Agreement pending appraisal by Mr. Ford of mineralization encountered on adjacent property, which might have a bearing on mineralization to be expected on the property subordinated under Contract No. Idm-E943.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman,
Acting Executive Officer,
DMEA Field Team, Region III

cc-Mr. Robert Ford
P. O. Box 428
Riverton, Wyoming

Chairman, Op. Comm. (2) - w/copy
Harshman) of Opera-
DMEA/DFC (Binyon)) tor's letter
Corres. File) of 11/14/57.
Townsend
Chron.

DILLING AND DILLING
ATTORNEYS AT LAW
130 NORTH CLARK STREET
CHICAGO 2

ALBERT W. DILLING
KIRKPATRICK W. DILLING

TELEPHONE
CENTRAL 6-8417

DMEA
DEPARTMENT OF THE INTERIOR
NOV 15 1957
REGION III
DENVER, COLORADO

November 14, 1957

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

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Idm-E943

Dear Mr. Harshman:

Your letter of November 12th was received today, together with enclosures.

Since the operator's narrative report was forwarded to you in the above matter, we understand that there have been significant uranium discoveries made immediately adjacent to the Clyde group claims, which were included in the above contract, of course. In that connection we requested that consulting geologist Robert Ford investigate the situation with the object of reappraising and further analyzing the possibilities in regard to the Clyde group claims. This work has not yet been completed, according to Mr. Ford's letter of several days ago.

In view of the above circumstances, it is entirely possible that, rather than closing out the above contract, it would be requested that a further stage of work be approved by your agency, to determine the presence of significant uranium mineralization on the Clyde group claims. Obviously, if such mineralization proved to be present, that would be potentially advantageous to all concerned.

I therefore request that termination of the above contract be held up pending completion of Mr. Ford's current evaluation work, the results of which should be available very shortly. Pending your advice as to this matter, the termination agreement is being held in abeyance.

Yours very truly,

Albert W. Dilling

AWD: hs
Copy to Mr. Robert Ford
Box 428
Riverton, Wyoming

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/31	Knouse	700
10/31	Ellis	700
11-4	Chandler	800
11/6	[illegible]	1300
"	Johnson	110
		~~100~~
		~~[illegible]~~
11/7	gb	920
		700

Received 11-4

NOV 7 1957

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

Re: Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
Clyde, Marsh & Longport Groups of Claims
Fremont County, Wyoming

Dear Mr. Harshman:

As requested in your memorandum, dated October 16, 1957, we are enclosing the original and four copies of a proposed Termination Agreement for the subject project, signed by the Acting Administrator.

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.

In the event that any part of this proposed agreement does not meet with your approval or the Operator's, the original and all copies should be returned with the proposed changes for consideration.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

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

Thor H. Kiilsgaard (THK)
Member, Geological Survey

FLKnouse/izm 10-31-57
cc: Mr. Knouse
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224

8623

Government's Copy

TERMINATION AGREEMENT

It is agreed this ___ day of _____, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government" and Charles M. Coleman, et al., hereinafter called the "Operator," parties to that certain Exploration Project Contract Idm-E943, Docket No. DMEA-4047, dated April 11, 1956, as amended, hereinafter called the "Contract," that:

1. Effective August 23, 1957, 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 to allowable costs incurred prior to said effective date, and shall contribute to allowable costs incurred or to be incurred beginning with said effective date in performing ~~winding-up and settlement actions provided for in the Contract, including (a)~~ any chemical analyses necessary to complete the final report, ~~and (b) the making and rendering of the final reports and accounts.~~

3. Any work or operations prosecuted or costs incurred by the Operator beginning with said effective date, except as otherwise provided in this Termination Agreement, shall be for the sole account of the Operator without contribution by the Government.

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.

Long
Kuyper
Ellis

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

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

THE UNITED STATES OF AMERICA

By_____
Administrator, Defense Minerals Exploration Administration

CHARLES M. COLEMAN
J. H. DEIMERLY
ALBERT W. DILLING
LEONARD D. CARMICHAEL
KIRKPATRICK W. DILLING
MABEL E. CARMICHAEL

By_____
ALBERT W. DILLING, individually and as Attorney-in-Fact for the above-named persons

OFFICIAL FILE COPY

Date	Surname	Code
10/22	Knouse	700
		140

INTERIOR DEPT.
OCT 22 1957
SOLICITOR

October 22, 1957

Memorandum

To: Associate Solicitor,
Division of Mineral Resources

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

Subject: Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
Clyde, Marsh, and Longport Claim Groups
Fremont County, Wyoming

Please draft a Termination Agreement for the subject contract. We recommend "Termination Agreement" /All Contract Forms - MF-200, MF-200A/ (DMEA Circular 33, dated June 30, 1954), with the following paragraphs: 1. Effective date ~~July 9, 1957~~*; 2. Except sentence under (a); 3.; 5.; and 7.

*Insert August 23, 1957

/s/ F. L. Knouse

F. L. Knouse

FLKnouse/gla
cc to: Mr. Knouse

RECEIVED
OCT 23 1957
ASSOC. SOLICITOR
MINERAL RESOURCES

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 24 1957

DATE	INITIALS	CODE
10/24	C	220
10/25	[illegible]	800
10/25	[illegible]	700

224 New Customhouse
Denver 2, Colorado
October 21, 1957

Mr. Albert W. Dilling, Attorney in Fact,
c/o Dilling and Dilling,
Attorneys at Law
Charles M. Coleman & Associates
139 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium)
Contract Idm-2943
Charles M. Coleman & Associates
(Clyde, Marsh, & Longport
groups of claims)
Fremont County, Wyoming

Dear Mr. Dilling:

Form MF-104, Operator's Monthly Report and Voucher, for August, 1957, has been received in this office and is being processed for payment.

All currently approved work under the contract has been completed and termination of the contract in its present status has been requested; therefore an amount of $500.00 is withheld from reimbursement to you, pending resolution of matters prerequisite to closing the account, which includes:

1. Execution by the parties to the contract, of a suitable agreement to terminate the contract in its present status, without requiring performance of the balance of the work outlined in the contract.

2. Release to this office of an Audit Report or Report of Review of the reported project costs, by the Contract Administration and Audit Division, DMEA.

If you have any questions regarding the above please feel free to contact this office.

JDC:hmh

cc: Chmn. Op. Comm. (2)
Harshman
DMEA, DFC
Townsend
Corres.file,Reg.III
Chron

cc: Robert Ford
206 S. Broadway
Riverton, Wyoming

Yours very truly,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 27 1957
DATE | INITIALS | CODE
9/27 | C | 220
9/30 | | 800
" | | 700

224 New Customhouse
Denver 2, Colorado

September 24, 1957

Memorandum

To: E. N. Harshman
DMEA/DFC (Binyon)

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

Subject: Docket No. DMEA 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport Groups of claims), Fremont County, Wyoming.

The Operator, as a part of its final accounting report, requests that the Contract be terminated in its present status without completing approximately 3,000 feet of drilling that was provided for by Amendment No. 3, Stage IV.

Also, the Operator included a summary of project operations which was submitted as the Operator's final report, as required by the Contract. The final accounting report is today being forwarded to the examining engineer for appropriate action, where the data can be examined to provide necessary information.

Please submit a joint memorandum report containing your recommendations relative to terminating the Contract in its present status and issuing of a Certification of Discovery or Development as a result of the exploration work performed to date.

Original signed by
J. W. TOWNSEND

J. W. Townsend

JWT:prl

cc: Chmn. Op. Comm. (2)
Townsend
Corres. file
Chron.

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 23 1957

DATE	INITIALS	CODE
9/23	C	220
9/24	[illegible]	800
"	~~[illegible]~~	700

224 New Customhouse
Denver 2, Colorado

September 20, 1957

Mr. Robert Ford
Mining Geologist
c/o Ford and Fox, Consulting Geologists
206 South Broadway
Riverton, Wyoming

Re: Docket DMEA-4047 (Uranium)
Contract I6m-E943
Charles M. Coleman & Associates
(Clyde, Marsh, and Longport
groups of claims)
Fremont County, Wyoming

Dear Mr. Ford:

Receipt is acknowledged of Forms MF-104, Operator's Monthly Report and Voucher, and MF-104A, Operator's Unit Cost and Progress Report, Operator's narrative report, and supporting data, for the month of August, 1957, which is also intended as the final report required under Article 7(c) of the contract form.

A separate final report is ordinarily required, however, in this case the August report will serve the purpose of the final report if you will submit to this office six (6) additional copies of each map submitted with the August report.

Your immediate attention in the matter is requested.

Yours very truly,

Original signed by
J. W. TOWNSEND

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

JDC:hmh
cc: Chmn. Op. Comm. (2)
Harshman
DMEA, DFC
Townsend
Corres.file,Reg.III
Chron

August 22, 1957

Memorandum

To: Hazel Berry, Operating Committee

From: Irene Z. Mainster
Div. of Rare and Misc. Metals

Subject: Amendment to Contract Idm-E 943

Mr. Knouse has reviewed and approved Amendment No. 4, dated July 31, 1957, to Contract No. Idm-E 943, Docket No. DMEA-4047, Charles M. Coleman, et al., and has indicated that no further review of the amendment is required by the Legal Division.

Irene Z. Mainster

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

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 16 1957

DATE	INITIALS	CODE
8/16	P	220
8/20	JB	130
8/21	FLK	700

August 14, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claim groups), Fremont County, Wyoming

Enclosed are the Government's and Audit copies of Amendment No. 4 to Contract No. Idm-E943, which has been executed to extend the date fixed on or before which the work shall be completed from August 1, 1957 to September 1, 1957.

Also enclosed are three copies of the Operator's letter of July 30, 1957, requesting the time extension.

Copies of the Amendment have been distributed to the Operator, the Finance Office, Region III, and to others concerned.

E. N. Harshman

E. N. Harshman

Enclosures

ROBERT FORD
MINING GEOLOGIST

BLAKE FOX
PETROLEUM GEOLOGIST

FORD & FOX
Consulting Geologists
206 S. BROADWAY
RIVERTON, WYOMING

P.O. BOX 428

UL6-3468

July 30, 1957

DMEA
DEPARTMENT OF THE INTERIOR
JUL 31 1957
REGION III
DENVER, COLORADO

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

Re: Contract No. Idm-E 943
Docket No. DMEA 4047
Charles M. Coleman and Associates

Dear Mr. King:

Mr. Albert W. Dilling, Attorney in Fact, for Charles M. Coleman and Associates of the above named contract, has asked that an extension of the completion date of Amendment No. 3 be applied for.

The current interest and resulting drilling has made it impossible to retain a drill contractor. The successful bidder on the Coleman contract will be unavailable until the middle of August.

We therefore ask that your office consider an extension from August 1, 1957 to September 1, 1957 for the completion date of the above named contract.

Very truly yours,

Robert Ford

REF:ejb
Encl 5 copies
CC: Mr. Albert W. Dilling
Attorney in Fact
Charles M. Coleman and Associates
c/o Dilling and Dilling
Attorneys at Law
139 North Clark Street
Chicago, Illinois

OFFICIAL LITE FONT
D.M.E.A.
RECEIVED AUG 13 1957
DATE | INITIALS | CODE

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 5 1957

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8/5	O.K.	
8/5		220
8/1		800
		700

224 New Customhouse
Denver 2, Colorado

July 31, 1957

Mr. Robert Ford
Consulting Geologist
P. O. Box 425
Riverton, Wyoming

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Idm-2943
Charles H. Coleman and Associates
(Clyde, Marsh, and Longpert
claim groups)
Fremont County, Wyoming

Dear Mr. Ford:

Enclosed are the Government's, Audit, Operator's, Finance Office, and Field Team copies of proposed Amendment No. 4 to Contract No. Idm-2943, which has been prepared in reference to your letter of July 30, 1957 to extend the date fixed on or before which the work shall be completed from August 1, 1957 to September 1, 1957.

If the Amendment is satisfactory, all copies are to be signed by Albert W. Billing, as indicated, and all copies promptly returned to this office; upon receipt of which and after signature by the Executive Officer, DMEA Field Team, Region III, for the Government, the "Operator's Copy" will be returned to you.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

cc: Mr. Albert W. Billing
139 North Clark Street
Chicago 2, Illinois

JWT:prl

cc: Chmn. Op. Comm. - 2
Harshman
DMEA/DFC
Townsend
Corres. file
Chron.

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

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 15 1957

DATE	INITIALS	CODE
7/15	C	220
"	~~FLK~~	700

July 10, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman and Associates (Clyde, ~~Marsh~~ and Longport claim groups), Fremont County, Wyoming

Enclosed are three copies of project work approval issued by the DMEA Field Team, Region III.

Also enclosed are two copies of the Operator's request for the work approval, dated June 18, 1957, and three copies of a joint memorandum pertaining to the work, dated July 3, 1957, from E. O. Binyon, Mining Engineer, Bureau of Mines, and D. H. Richter, Geologist, Geological Survey.

Copies of the work approval have been distributed to the Operator, the Finance Office, Region III, and to others concerned.

W H King
W. H. King

Enclosures

W.O.

204 New Customhouse
Denver 2, Colorado

July 8, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 15 1957
DATE | INITIALS | CODE

Mr. Robert Ford
P. O. Box 425
Riverton, Wyoming

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Ida-2943
Charles K. Coleman and Associates
(Clyde, Marsh, and Longport claim groups)
Fremont County, Wyoming

Dear Mr. Ford:

In reference to the request in your letter of June 18, 1957, and consistent with provisions in Amendment No. 3 pertaining to drilling under Stage IV of the Contract, the following twelve (12) offset holes are approved for drilling:

Claim Location of Hole	Stage III Hole to be Offset	Direction and Spacing of Stage IV Offset Holes	Depth Offset Holes are to be Drilled
Longport No. 1	3	North 150 feet	265 feet
		South 150 feet	265 feet
		East 150 feet	265 feet
		West 150 feet	265 feet
Longport No. 3	9	North 150 feet	255 feet
		South 150 feet	255 feet
		East 150 feet	255 feet
		West 150 feet	255 feet
Longport No. 5	13	North 150 feet	245 feet
		South 150 feet	245 feet
		East 150 feet	245 feet
		West 150 feet	245 feet
Total		12 holes	2,980 feet.

The locations of the Stage IV offset holes are shown on the map entitled, "Proposed Offset holes to Stage III mineralized holes, Charles M Coleman and Associates, Longpert claims, Fremont County, Wyoming, Docket 4047, Contract [illegible]," which is attached hereto and made a part of this work approval.

Nothing in this work approval shall be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, the fixed unit cost of any item of work, nor any item of allowable cost which is expressly designated "maximum."

Very truly yours,

DMEA Field Team, Region III

W. H. King

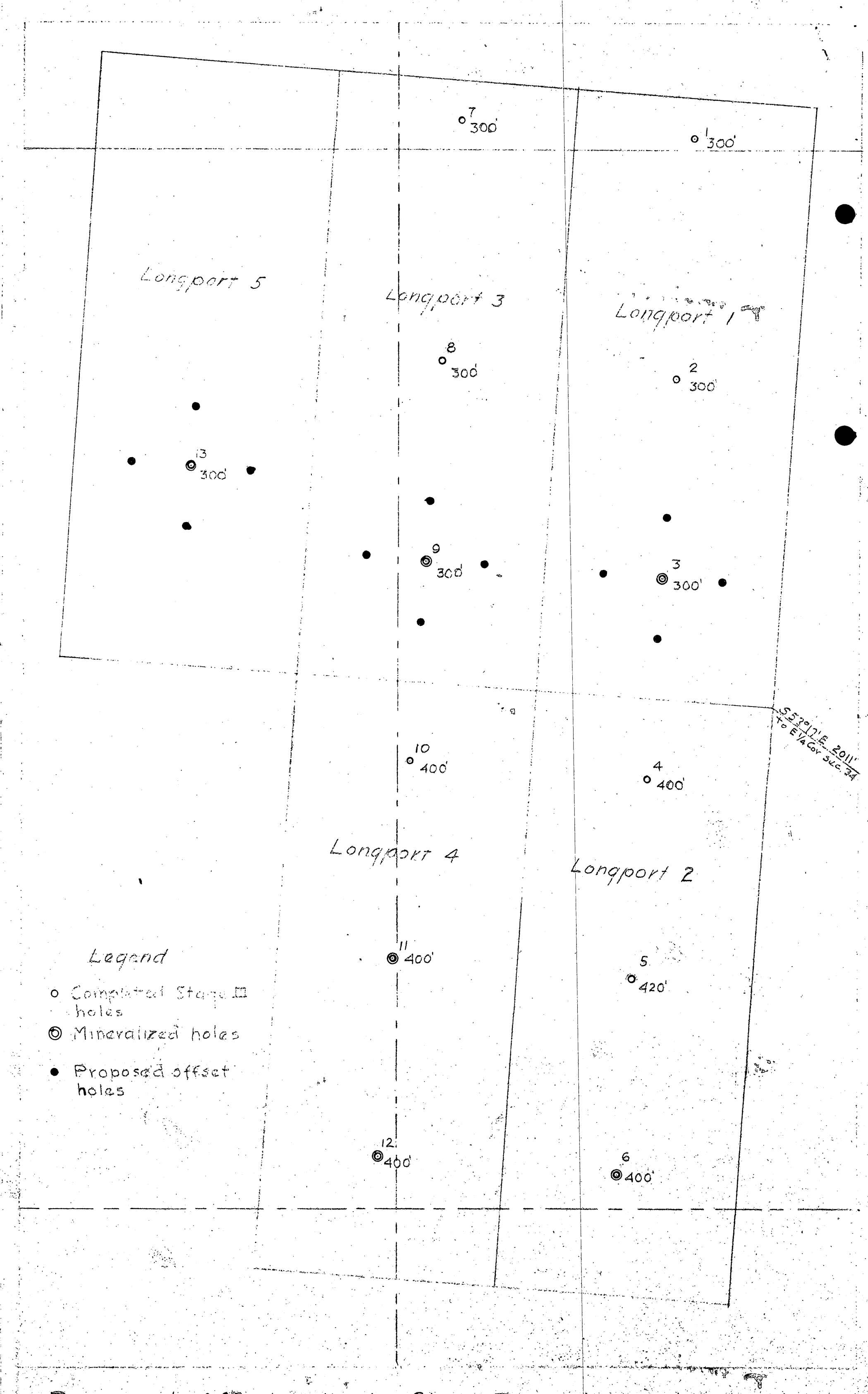
E. M. Harshman

Enclosure

cc: Mr. Albert W. Billing
Attorney in Fact
Charles M. Coleman and Associates
139 North Clark Street
Chicago, Illinois

JWT:prl

cc: Chem.Op.Comm.-5
Finance Office, Reg. III
Amendment file, Reg. III
Harshman
DMEA/DFC
Townsend
Corres. file
Chron.



Proposed Offset holes to Stage III mineralized holes, Charles M Coleman and Associates Longport claims, Fremont County, Wyoming, Docket 4047 Contract Idm-E 943

OFFICIAL FILE COPY
D M E A
RECEIVED JUL 15 1957

DATE	INITIALS	CODE

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
DEPARTMENT OF THE INTERIOR
JUL 3 1957
REGION III
DENVER, COLORADO

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 15 1957

DATE	INITIALS	CODE

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

July 3, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Marshman

From: E. O. Binyon
D. M. Richter

Subject: Docket DMEA 4047 (Uranium), Contract Idm-E 943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claims groups), Fremont County, Wyoming
REQUEST FOR STAGE IV OFFSET DRILLING ON LONGPORT CLAIMS

In a letter dated June 18, 1957, the operator requested drilling 20 offset holes under the provisions of Stage IV, totaling 5,860 feet in depth around 5 mineralized holes drilled under Stage III. The Stage III holes showing significant mineralization or ore-grade material are:

Claim	Hole No.	Depth of mineralization (feet)	Thickness (feet)	Probe results eU_3O_8
Longport No. 1	3	251-252½	1.5	0.160
Longport No. 2	6	280-286	6.0	0.043 Average
		282-284	2.0	0.060
Longport No. 3	9	221½-222	0.5	0.336
Longport No. 4	11	302½-303	0.5	0.115
Longport No. 4	12	306½-308	1.5	0.140
*Longport No. 5	13	231-233	2.0	0.130

*not included in the operator's request.

Considering the grade, thickness, and depth of the mineralized horizons in the holes, possibly 3 holes, Nos. 3, 9, and 13 warrant offsets. In the remaining 3 holes, Nos. 6, 11, and 12, the grade is low and the thickness in holes 6 and 11 is less than 2 feet; hole 12 is 3.5 feet thick with 0.10 percent e U_3O_8. With these grades and thicknesses at depths ranging from 284 to 308 it is the opinion of the examining team that offset drilling around these holes would not result in finding a significant uranium deposit. The operator has submitted north-south sections showing continuity of the mineralized horizons and while the hole spacing is 500 feet there is no reason to suspect any increase in grade or thickness that would result in a significant ore deposit particularly with the intervening barren holes on the sections. If a cut off of 2 feet is assumed as minimum ore thickness (and 0.10 percent U_3O_8 as minimum grade) the grade in hole 13 is 0.13 percent eU_3O_8; hole 9, 0.23 percent eU_3O_8; and hole 3, 0.12 percent eU_3O_8. These holes appear to warrant offsetting and it is recommended that 4 offset holes be drilled at a spacing of 150 feet east and west of each hole and 150 feet north and south of each hole. The Stage III holes and the recommended Stage IV offset holes and depths are as follows:

Stage III holes	Direction & spacing of offset holes	Number offset holes	Depth of Stage III offset holes	Total footage
3	N S 150 feet E W 150 feet	4	265	1,060
9	N S 150 feet E W 150 feet	4	235	940
13	N S 150 feet E W 150 feet	4	245	980
	Total	12		2,980

Drilling and sampling procedure shall be done as stipulated in the contract.

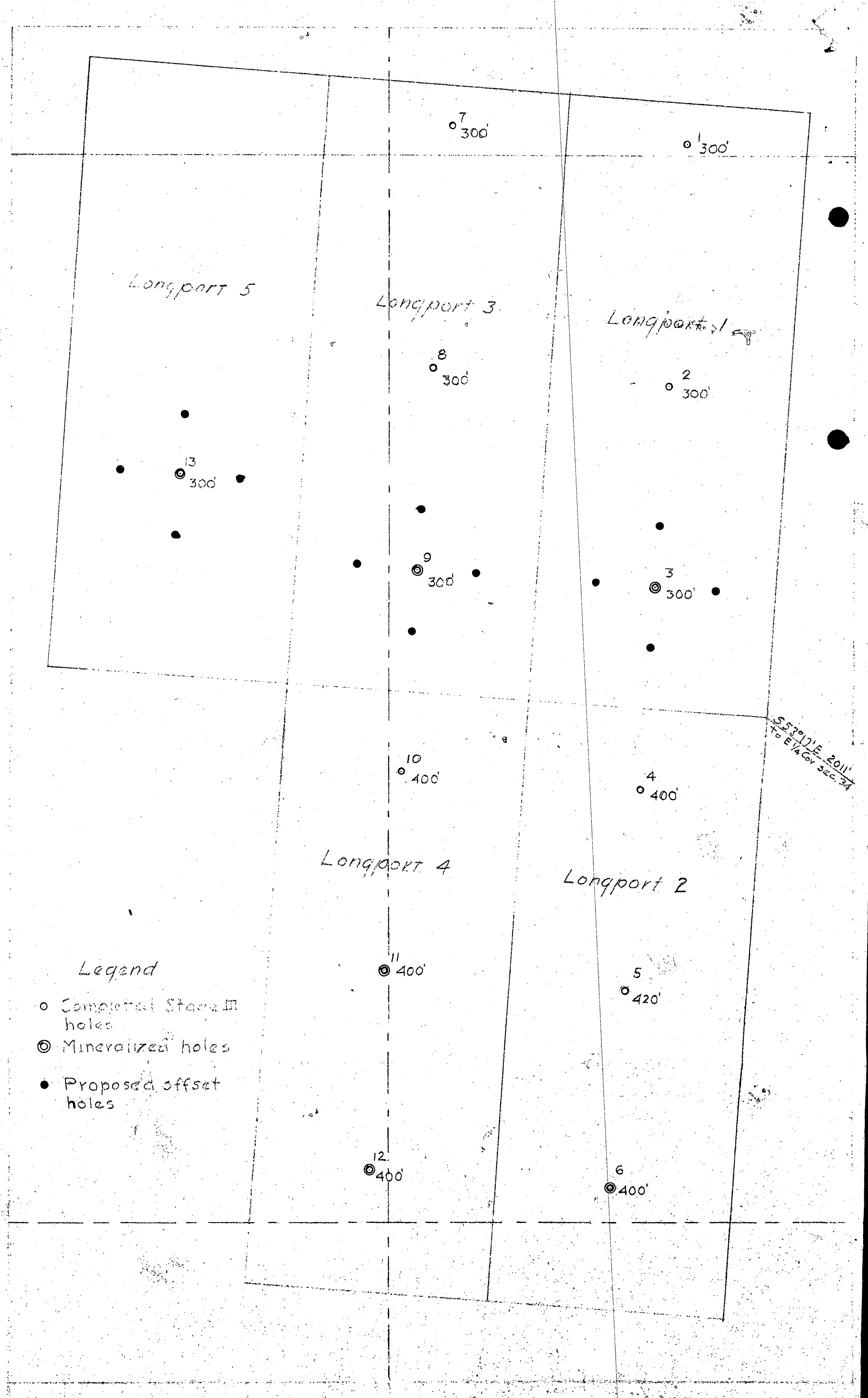
E O Binyon

E. O. Binyon, Mining Engineer

D.H. Richter

D. H. Richter, Geologist

EOBinyon:mp



Proposed Offset holes to Stage III mineralized holes, Charles M Coleman and Associates Longpo.t claims, Fremont County, Wyoming, Docket 4047 Contract Idm-E 943

OFFICIAL FILE COPY
D M E A
RECEIVED JUL 15 1957

DATE	INITIALS	CODE

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
DEPARTMENT OF THE INTERIOR
JUL 3 1957
REGION III
DENVER, COLORADO

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

EXTRA COPY
DMEA
RECEIVED JUL 15 1957

DATE	INITIALS	CODE

July 3, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. M. Burchman

From: E. O. Bingen
D. E. Richter

Subject: Docket DMEA 4047 (Uranium), Contract Ida-E 943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claims groups), Fremont County, Wyoming
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13	N S 150 feet E W 150 feet	4	245	980
Total		12		2,980

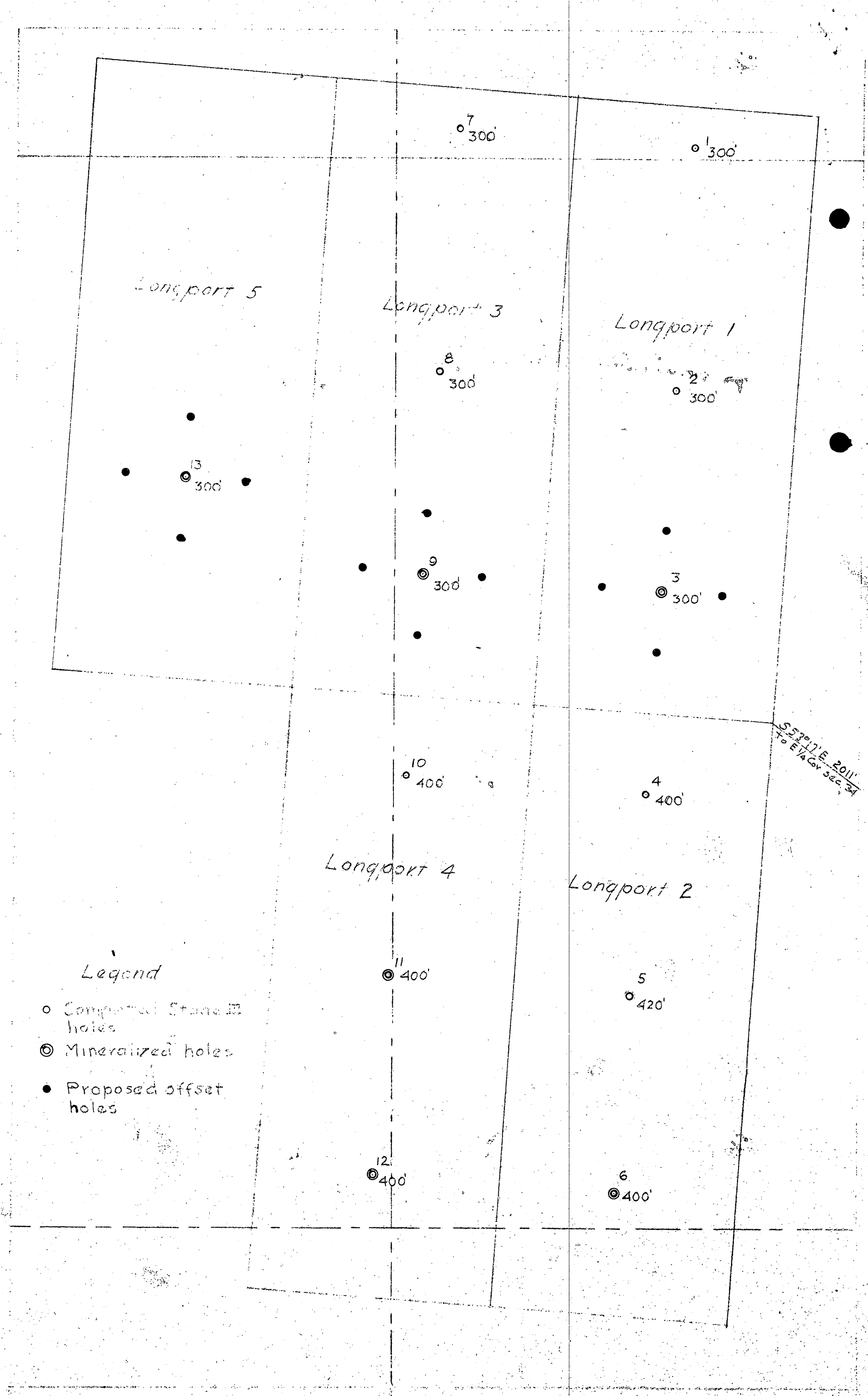
Drilling and sampling procedure shall be done as stipulated in the contract.

E. O. Mayon, Mining Engineer

D. H. Richter

D. H. Richter, Geologist

EOMayon:mp



Proposed Offset holes to Stage III mineralized holes, Charles M Coleman and Associates Longport claims, Fremont County, Wyoming. Docket 4047 Contract Idm-E 943

EXTRA COPY
D M E A
RECEIVED JUL 15 1957

DATE	INITIALS	CODE

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
DEPARTMENT OF THE INTERIOR
JUL 3 1957
REGION III
DENVER, COLORADO

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

EXTRA COPY
DMEA
RECEIVED JUL 15 1957
DATE | INITIALS | CODE

July 3, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. M. Burnham EMB

From: E. O. Rimyan
D. H. Richter

Subject: Docket DMEA 4047 (Uranium), Contract Idm-E 943, Charles H. Coleman and Associates (Clyde, Marsh, and Longport claims groups), Fremont County, Wyoming
REQUEST FOR STAGE IV OFFSET DRILLING ON LONGPORT CLAIMS

In a letter dated June 18, 1957, the operator requested drilling 20 offset holes under the provisions of Stage IV, totaling 5,860 feet in depth around 5 mineralized holes drilled under Stage III. The Stage III holes showing significant mineralization or ore-grade material are:

Claim	Hole No.	Depth of mineralization (feet)	Thickness (feet)	Probe results eU_3O_8
Longport No. 1	3	231-232½	1.5	0.160
Longport No. 2	6	280-286	6.0	0.043 Average
		288-284	2.0	0.060
Longport No. 3	9	221½-222	0.5	0.336
Longport No. 4	11	302½-303	0.5	0.115
Longport No. 4	12	306½-308	1.5	0.140
*Longport No. 5	13	231-233	2.0	0.130

*not included in the operator's request.

Considering the grade, thickness, and depth of the mineralized horizons in the holes, possibly 3 holes, Nos. 3, 9, and 13 warrant offsets. In the remaining 3 holes, Nos. 6, 11, and 18, the grade is low and the thickness in holes 6 and 11 is less than 2 feet; hole 18 is 3.5 feet thick with 0.10 percent U_3O_8. With these grades and thicknesses at depths ranging from 284 to 308 it is the opinion of the examining team that offset drilling around these holes would not result in finding a significant uranium deposit. The operator has submitted north-south sections showing continuity of the mineralized horizons and while the hole spacing is 300 feet there is no reason to suspect any increase in grade or thickness that would result in a significant ore deposit particularly with the intervening barren holes on the sections. If a cut off of 2 feet is assumed as minimum ore thickness (and 0.10 percent U_3O_8 as minimum grade) the grade in hole 13 is 0.13 percent eU_3O_8; hole 9, 0.25 percent eU_3O_8; and hole 3, 0.12 percent eU_3O_8. These holes appear to warrant offsetting and it is recommended that 4 offset holes be drilled at a spacing of 150 feet east and west of each hole and 150 feet north and south of each hole. The Stage III holes and the recommended Stage IV offset holes and depths are as follows:

Stage III holes	Direction & spacing of offset holes	Number offset holes	Depth of Stage III offset holes	Total footage
3	N S 150 feet E W 150 feet	4	265	1,060
9	N S 150 feet E W 150 feet	4	235	940
13	N S 150 feet E W 150 feet	4	245	980
Total		12		2,980

Drilling and sampling procedure shall be done as stipulated in the contract.

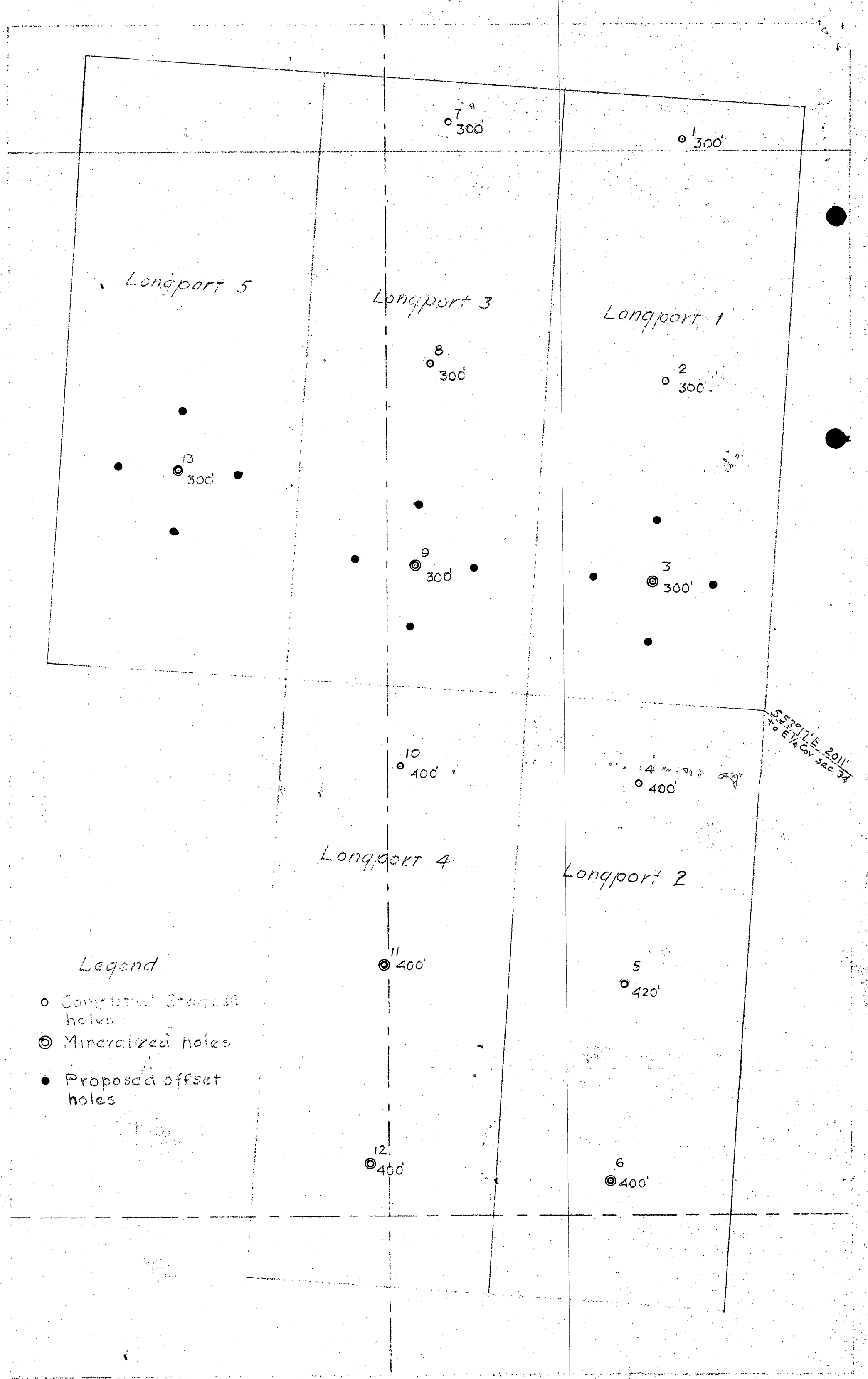
E. O. Benson

E. O. Benson, Mining Engineer

D. H. Richter

D. H. Richter, Geologist

EOBbsyon:mp



Proposed Offset holes to Stage III mineralized holes, Charles M Coleman and Associates, Longport claims, Fremont County, Wyoming, Docket 4047 Contract Idm-E 943

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 2 1957

DATE	INITIALS	CODE
6/27	C	220
6/27	[illegible]	800
6/27	FLK	700

224 New Customhouse
Denver 2, Colorado

June 21, 1957

Mr. Robert Ford
Ford and Fox, Consulting Geologists
206 South Broadway
Riverton, Wyoming

Re: Docket DMEA-4047 (Uranium)
Contract Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh and Longport claims)
Fremont County, Wyoming

Dear Mr. Ford:

Form MF-104, Operator's Monthly Report and Voucher for May, 1957, has been received in this office and is being processed for payment.

Due to an arithmetical or typographical error the reported cost for Incidental Allowance is in excess of the allowable cost for the units of work completed. The excess cost is disallowed.

The amount of $400.00 which was withheld from the October, 1956, voucher is reinstated, as work under the contract is in progress.

You will be further advised regarding the amounts disallowed and reinstated by means of an Administrative Audit Difference Statement, which will be forwarded to you by the Finance Office, Region III. Please make the necessary adjustment for the disallowance on the next reports submitted on voucher and accounting Forms MF-104 and MF-104A.

Yours very truly,

Original signed by
W. H. KING

W. H. King
Executive Officer, DMEA
Field Team, Region III

JDC:hmh
cc: Chmn. Op. Comm. (2)
Harshman
DMEA, DFC
Townsend
Corres. file, Reg. III
Chron.

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 24 1957

DATE		CODE
6/25	C	220
6/25		800
7/1	FLK	700

224 New Customhouse
Denver 2, Colorado

June 21, 1957

Memorandum

To: E. N. Marshman - w/enclosure
E. O. Binyon - " "

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claims group), Fremont County, Wyoming

Enclosed is a copy of the Operator's letter of June 18, 1957 with attached request for the Government's approval for twenty (20) offset drill holes under the provisions of Stage IV, as provided by Amendment No. 3.

Please submit a joint memorandum report of your recommendations in the matter.

Original signed by
W. H. KING

W. H. King

JWT:prl

cc: Chan. Op. Comm. -2
Townsend
Corres. file
Chron.

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

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 16 1957

DATE	INITIALS	CODE
5/16	C	220
5/17	B	715
5/17	Kpaine	700

May 13, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claim groups), Fremont County, Wyoming

Enclosed are the Government's, Division, and Audit copies of Amendment No. 3 to Contract No. Idm-E943, which were forwarded by your letter of April 22, 1957 for signature by the Operators' Agent.

Copies of the Amendment have been distributed to the Operator, the Finance Office, Region III, and to others concerned.

E. N. Harshman

E. N. Harshman

Enclosures

FILE COPY
Surname:
DMEA

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

Knouse
Ellis
Johnson

Y.S. in A.&R.

APR 29 1957

Dear Senator Dirksen:

This further responds to your inquiry of April 16, 1957, concerning the status of the application filed by Charles M. Coleman and Associates, docket DMEA-4047, contract Ldm-5943.

Under date of April 22, 1957, an amendment to the above contract, which allowed additional work, was forwarded to our Denver, Colorado, office for the signature of the operator.

If we can be of further assistance in this matter, please contact us.

Sincerely yours,

(sgd) Fred G. Aandahl
Assistant Secretary of the Interior

Hon. Everett McKinley Dirksen
United States Senate
Washington 25, D.C.

FLKnouse/ism/fw-4/25/57
cc to: Secretary's File
Secretary's Reading File
Asst. Sec'y Wormser (2)
Mails & Files, DMEA
Legislative Counsel
Admr. Reading File, DMEA
F.L.Knouse-DMEA
T.H.Kiilsgaard-Rm. 5224
DMEA Field Team, Reg. III (2) w ccs incoming letter 4-16-57
and Asst. Secy's letter 4-23-57

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

APR 23 1957

Dear Senator Dirksen:

Thank you for your letter of April 16, regarding the application filed by Charles M. Coleman and Associates and described as Docket number 4047, Contract IDM-E943.

We will be glad to advise you when action is taken on this matter.

Sincerely yours,

(sgd) F. E. Wormser
Assistant Secretary of the Interior

Hon. Everett McKinley Dirksen
United States Senate
Washington 25, D. C.

Everett McKinley Dirksen
Illinois

United States Senate
Washington, D.C.

INTERIOR DEPT.
RECEIVED
APR 17 1957
SECRETARY'S
IMMEDIATE
OFFICE

April 16, 1957

INTERIOR DEPT.
RECEIVED
APR 17 1957
OFFICE OF
THE SECRETARY

4-22-11
W.B

Honorable Fred Seaton
Secretary
DEPARTMENT OF THE INTERIOR
Washington 25, D. C.

Dear Mr. Secretary:

I have been advised that an application filed by Charles M. Coleman and Associates has been forwarded to you from your Denver office.

The Docket number is 4047, Contract IDM-E943. I would appreciate being advised when action is taken by you.

Sincerely,

Everett McKinley Dirksen

Everett McKinley Dirksen

OFFICIAL FILE COPY
D M E A
RECEIVED APR 24 1957

DATE	INITIALS	CODE
4-24		700

5-0-4

OFFICIAL FILE COPY
DMEA
RECEIVED APR 29 1957

DATE	INITIALS	CODE
4/29	C	220
4/29	[illegible]	800
4/29	[illegible]	700

224 New Customhouse
Denver 2, Colorado

April 25, 1957

CERTIFIED MAIL

Mr. Robert Ford, Geologist
Charles M. Coleman and Associates
Riverton, Wyoming

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh, and Longport
claim groups),
Fremont County, Wyoming

Dear Mr. Ford:

Enclosed are the Government's, Division, Audit, Finance Office, and Field Team copies of proposed Amendment No. 5 to Contract No. Idm-E943, which has been prepared in reference to the application forwarded by your letter of January 15, 1957 for approval of additional work and funds under the Contract.

If the Amendment is satisfactory, all copies are to be signed by Mr. Dilling, as indicated, and all copies promptly returned to this office.

In the event the Amendment is not satisfactory, all copies are to be promptly returned to this office with your comments on or objections to the Amendment.

Upon return of the properly executed copies of the Amendment, the "Operator's Copy" will be forwarded to you.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

JWT:prl

cc: Chairman, Op. Comm. (2)
Harshman
Shaw
Townsend
Corres. file
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4-16	Knouse	700
4-16	Ellis	700
4-17	Chambers	800
4/18	Selfridge	130
"	Johnson	110
"	Mattendorf	100
		~~[illegible]~~
		225
4-22	C	220

APR 22 1957

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

Re: Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
Clyde, Marsh, and Longport Claim Groups
Fremont County, Wyoming

Dear Mr. Harshman:

As recommended in your memoranda, dated March 4 and 29, 1957, there are enclosed the original and five copies of Amendment No. 3 to the subject contract, signed by the Administrator. The amendment consists of five pages and two maps (Figure 2 and map entitled, "Marsh Claim Group Secs. 32 & 33, T. 33 N, R 90 W Fremont County, Wyoming"). Also enclosed are two extra copies of the amendment and two copies each of the above referred to maps for the use of the Field Team.

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

In the event that any part of the amendment does not meet with your approval or the Operator's and cannot be amended within your delegated authority, the original and all copies are to be returned with the proposed changes for consideration.

You will note that the hole spacing for Stage IV drilling was increased from 100 feet (as recommended by the Field Team) to 150 feet. Because of the target size, it is believed the 150-foot spacing is sufficiently close for this program.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JLB)

Enclosures
APPROVED:

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

Thor H. Kiilsgaard (JLB)
Member, Geological Survey

FIKnouse/gla/izm 4-16-57
cc to: Mr. Knouse
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224

8623

Jay's comments -

(1) Date for completion of work performed under Stages I and II will be date of Amendment which is specific.

(2) 3 drill holes are offset to an ore hole. Word "approximately" would be better but not necessary if holes are completed.

(3) Summary is awkward but gives necessary information. Rewriting would entail further delay which not appear justified.

FEJohnson

Dave

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

Dale

April 17, 1957

Memorandum

To: Chairman, Operating Committee

From: Jay L. Chambers, Chief
Contract Administration and Audit Division

Subject: Docket No. DMEA-4047 (Uranium), Contract No. Idm-E943
Charles M. Coleman and Associates
Clyde, Marsh, and Longport Claim Groups
Fremont County, Wyoming

I am forwarding this proposed amendment to the Operating Committee with the following comments.

Item 4 (a) on page 1 states that all work provided for in Stages I and II which has not been completed as of the date first above written is hereby cancelled. It is my understanding that the work was supposed to be completed by October 15, 1956. If not, it appears that a more definite time should be given.

Under Stage III, item (b), the specifications say that 3 drill holes, each to a depth of 40 feet, etc... I would think that the 40 feet should be modified by "approximately".

The summary of this proposed amendment is rather awkwardly stated. The second part in my opinion should be stated as follows:

Cost Stages I and II (subject to audit)	$ 6,770.00
Estimated Cost Stages III and IV	11,547.40
Estimated Total Cost of Project (rounded)	$18,316.00
Government Participation @ 75 percent	$14,737.00

Attachment

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4-17	JLC	800
4/18	C	220

April 17, 1957

Memorandum

To: Chairman, Operating Committee

From: Jay L. Chambers, Chief (Signed) J. L. Chambers
Contract Administration and Audit Division

Subject: Docket No. DMEA-4047 (Uranium), Contract No. Idm-E943
Charles M. Coleman and Associates
Clyde, Marsh, and Longport Claim Groups
Fremont County, Wyoming

I am forwarding this proposed amendment to the Operating Committee with the following comments.

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Estimated Total Cost of Project (rounded)	$18,316.00
Government Participation @ 75 percent	$14,737.00

Attachment

JLChambers/wb
April 17, 1957

Copy to: Docket
Admr. Reading File
Mr. Chambers

8623

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

OFFICIAL FILE COPY
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IN REPLY REFER TO:

RECEIVED		1957
DATE		CODE
4/4	C	220
		225

April 3, 1957

Memorandum

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

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

Subject: Review of supplementary information, DMEA 4047, Contract Idm-E943, Charles M. Coleman and Associates, Longport Claims, Fremont County, Wyoming (Uranium).

The examining team have re-evaluated the applicant's request for amendment to the subject contract.

It has now been ascertained that drilling depths would likely be greater on the south part of the claims for reasons of topography and regional dip of the beds. As a result, the examining team now propose that holes drilled on the northern claims be 300 feet deep while those to the south be 400 feet deep.

In view of the large sized ore bodies that exist in the district, I agree with the recommendations of the examining team for amendment of the contract.

W. P Williams

W. P. Williams

OFFICIAL FILE COPY
DMEA
RECEIVED APR 4 1957

DATE	INITIALS	CODE
4/5	C	220
		225

April 3, 1957

4047
Idm-E943
Uranium
Charles M. Coleman & Associates
Clyde, Marsh, and Longport claims
Fremont County, Wyoming

~~Ernest William~~ Ellis, DMEA Member
Uranium Commodity Committee
John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Field Team Report

3/29/57

4/2/57

x

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/3	[illegible]	700
4/4	Ellis	700
		220

April 3, 1957

Memorandum

To: Associate Solicitor
Division of Mineral Resources

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

Subject: Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
Clyde, March, and Longport Claim Groups
Fremont County, Wyoming
Proposed Amendment No. 3

You are referred to the memorandum, dated March 4, 1957, from the Acting Executive Officer, Region III, and documents and communications referred to therein; also, the supplemental information submitted with Mr. Harshman's memorandum of March 29.

Please prepare Amendment No. 3 for the signature of the Administrator which provides for the following:

1. Extend the completion date of the project work to August 1, 1957, and increase the period for the payment of royalty on production from 10 to 11 years.

2. Any contract work that has been approved and has not been completed is now cancelled and the work described below is added to the contract.

3. All holes drilled hereafter shall be not closer than 100 feet to the outside boundary of the property, and no payment shall be made for an incompleted hole.

4. The objective of the additional drilling on the Longport group of claims is to test the ore-bearing Upper Wind River formation for uranium-bearing ore underlying the area. Holes will range from 300 to 400 feet in depth.

The additional work to be performed is in two parts, Stages III and IV, as described below. The Operator shall complete Stage III and shall, either after completion of Stage III or concurrently, perform as much of Stage IV as the Government approves in writing.

8623

Stage III

In addition to the drilling completed under Stages I and II, prepare access roads and drill sites with a tractor w/dozer and drill 13 holes at the locations marked ⊕ and to the depths shown beside each hole as shown on the attached map entitled, "Figure 2. Location of Stage I holes and proposed Stage III holes Longport claims." The holes shall be drilled not less than 500 feet apart and shall aggregate not more than 4,500 feet of drilling. Also prepare access roads and drill sites with a tractor w/dozer and drill three holes to a depth of 40 feet at the locations marked ⊕ around hole M-11 as shown on the attached map entitled, "Marsh Claim Group Secs. 32 & 33, T. 33 N., R. 90 W., Fremont County, Wyoming." The holes shall be drilled not less than 50 feet from hole M-11 and shall aggregate not more than 120 feet of drilling.

Stage IV

Prepare access roads and drill sites with a tractor w/dozer and drill not more than 20 holes approved by the Government, to depths aggregating not more than 6,000 feet of drilling. The holes shall be drilled as offsets to holes drilled under Stage III that penetrated significant uranium mineralization on the Longport claims. Not more than 4 holes shall be drilled, spaced not closer than 150 feet from any Stage III hole that penetrated significant uranium mineralization.

Estimated Cost of Additional Work

Stage III

Category (1) Independent Contracts

4 hrs. of actual operating time, tractor w/dozer, including operator and all necessary cost @ $12.50/hr.	$ 50.00	
4,620 ft. of non-core drilling @ $0.80/ft.	3,696.00	
8 hrs. stand-by time for hole probing @ $10/hr.	80.00	

Categories (2) through (6) None

Category (7) Miscellaneous

(The only item of cost allowable under this category is sample analyses)

50 sample analyses @ $3.50*/each sample	175.00	$4,001.00

Fixed Unit Cost (See Article 13)

Incidental allowances[1/] for each foot of non-core hole completed, 4620 ft. @ $0.22/ft.	1,016.40
Estimated Total Cost Stage III	$5,017.40

Stage IV

Category (1) Independent Contracts

8 hrs. of actual operating time, tractor w/dozer, including operator and all necessary cost @ $12.50/hr.	$ 100.00	
6,000 ft. non-core drilling @ $0.80/ft.	4,800.00	
10 hrs. stand-by time for hole prcking @ $10/hr.	100.00	
Categories (2) through (6) None		
Category (7) Miscellaneous		
(The only item of cost allowable under this category is sample analyses)		
60 sample analyses @ $3.50*/each sample	210.00	$5,210.00
Fixed Unit Cost (See Article 13)		
Incidental allowances[1/] for each foot of non-core hole completed, 6000 ft. @ $0.22/ft.		1,320.00
Estimated Total Cost Stage IV		$6,530.00

S U M M A R Y

Estimated Total Cost Stage III	$5,017.40	
Estimated Total Cost Stage IV	6,530.00	$11,547.40
Estimated Cost Stages I and II (original contract)	$9,492.00	
Contract expenditures to date	6,770.00	
Amount unobligated at date of Amendment No. 3	2,722.00	
Estimated total additions project cost Amendment No. 3	8,825.40	
Amount of original contract	9,492.00	
Estimated total cost of the project (rounded to)		$18,316.00
Government participation @ 75%		$13,737.00

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

Marsh claim group

Nine copies each of maps, Fig. 2 and / are attached for attachment to the proposed amendment.

Please note that the original contract sets forth the allowable costs under all the categories of the contract. Since this proposed amendment consolidates the costs of some of the categories under Fixed Unit Cost, please incorporate in the amendment, the necessary language to protect the Government's interest.

Ernest Wm. Ellis

Ernest Wm. Ellis

EWEllis/gla
4-3-57
cc to: Docket
Code 700
Mr. Knouse

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

April 3, 1957

Memorandum

To: The File

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

Subject: Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
Clyde, Marsh, and Longport Claim Groups
Fremont County, Wyoming

JUSTIFICATION FOR AMENDMENT NO. 3

The Operator proposed and the Field Team and commodity members of the USGS and USBM have recommended further exploration, by means of drilling, of the Longport and Marsh group of claims. The Field Team recommended the drilling of 13 additional holes to a depth of 300 feet and an allowance of 20 offset holes to explore the Longport claims. Nearby exploration on the Lucky Mc, Vitro, Lost Creek, and Nuclear properties, subsequent to execution of the contract, discovered a mineralized area, roughly 1/2 mile wide and 2-1/2 miles long, located about one mile from the Longport claims, containing over 2-1/2 million tons of ore, which is believed to be ample justification for the additional exploration of the Longport claims. In addition, the Field Team has recommended the drilling of 3 offset holes to a depth of 40 feet around hole M-11 on the Marsh claims. Hole M-11 penetrated 2 feet of material 27 to 30 feet deep that assayed 0.137 percent U_3O_8.

I recommend that Amendment No. 3, which allows the drilling of the above recommended holes, be approved.

F. L. Knouse
F. L. Knouse

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

OFFICIAL FILE COPY
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RECEIVED APR 1 1957

DATE	INITIALS	CODE
4/1	C	220
		225

March 29, 1957

VIA AIR MAIL

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA ~~3037~~ 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman & Associates (Clyde, Marsh, and Longport claim groups), Fremont County, Wyoming

In response to the request in the teletype from W. S. Martin, Acting Chairman, of March 25, 1957, enclosed are the original and three copies of a joint memorandum report, dated March 28, 1957, from W. P. Pratt, Geologist, Geological Survey, and E. O. Binyon, Mining Engineer, Bureau of Mines.

Also enclosed are nine extra copies of Figure 2 for possible use in the proposed amendment.

The reanalysis of the situation concerning the additional drilling has the concurrence of this office, as we believe it contains the information to clarify the situation for you.

E. N. Harshman

E. N. Harshman

Enclosures

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

IN REPLY REFER TO:

DMEA
DEPARTMENT OF THE INTERIOR
MAR 29 1957
REGION III
DENVER, COLORADO

March 28, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED APR 1 1957

DATE	INITIALS	CODE

Memorandum

To: Acting Executive Officer, DMEA Field Team, Region III
Through: E. N. Harshman
J. F. Shaw

From: W. P. Pratt
E. O. Binyon

Subject: Docket DMEA 4047 (Uranium), Contract Idm-E 943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claim groups), Fremont County, Wyoming
SUPPLEMENTARY INFORMATION ON REQUESTED AMENDMENT

The following information is to supplement a memorandum of February 21, 1957, from this office, recommending approval of a modified amendment for further exploration on the Longport claim group.

The known unoxidized uranium ore deposits in the East Gas Hills area are blanket-type bodies consisting principally of uraninite intimately mixed with pyrite, filling pore spaces and in part replacing grains of coarse-grained sandstones.

The nearest known ore bodies to the Longport group are the Lucky Mc, Vitro, Lost Creek, and Nuclear deposits, which lie in a mineralized zone about a mile northeast and east of the claims (fig. 1). The Lucky Mc pits are cut in deposits about 35 to 60 feet below the surface, and the Vitro pits at 40 to 100 feet. The other deposits have been blocked out by drilling: the Lucky Mc deposit contains about 1-1/2 million tons of indicated ore at an average depth of 100

feet, while the Lost Creek and Nuclear deposits together contain an additional 1 million tons of indicated ore at average depths of 250 and 400 feet, respectively; thus the mineralized area enclosed within the dotted line, roughly 2 miles long and half a mile wide, contains well over 2-1/2 million tons of ore in various horizons. DMEA drilling on the George and Ver claims has revealed ore grade mineralization at depths of 24 and 130 feet at the locations indicated on figure 1.

Thus there is no single target horizon in the Longport group; favorable horizons may occur at any depth in the upper Wind River formation. The greatest tonnage in a single ore deposit in this vicinity--in the Lucky Mc deposit--is at an average depth of 100 feet below the surface; this horizon, projected to the Longport claims with due consideration to topography and regional dip, would lie 250 feet below the surface at the north end of the claims, and 380 feet at the south end. The ore-bearing horizons of the Lucky Mc pits and Vitro pits would project to about 310 to 370 feet at the north end and 400 to 460 feet at the south end. The two mineralized horizons on the George and Ver claims would project to depths of about 380 and 400 feet at the north end and 600 and 620 feet at the south end. Any of these horizons may or may not actually lie under the Longport claims.

The applicant requested that 10 additional holes be drilled on the Longport claims, each to a depth of 350 feet. The examining team in the previous memorandum recommended approval of 13 holes each 300 feet deep, intended to explore the upper Wind River formation in general

to a depth of 300 feet but not aimed at any specific horizon within that zone. Careful reconsideration of the depth of the known ore-bearing horizons, and of the topography and the regional dip, has shown that only a few of the favorable horizons, if present, would be penetrated by 300-foot holes on the Longport claims. It is also possible, however, that other mineralized horizons may be discovered within 300 feet of the surface; moreover, it is questionable whether ore discovered at greater depths than 300 feet could be profitably mined. The most favorable horizon, that of the Lucky Mc deposit, if present beneath the Longport claims, would be penetrated by 300-foot holes only at the north end of the claims, but would be penetrated at the south end by 400-foot holes. Because of the potentiality of this horizon, the team feels that 400-foot holes on the south half of the claims would be justified, and therefore recommends that the six proposed holes on claims 2 and 4 be drilled to 400-foot depth (fig. 2).

Costs for the revised drilling depths may be calculated from basic data given in our memorandum of February 21.

Acknowledgment is made to H. D. Zeller for helpful discussion of the geology of this area and for information on the ore reserves.

Note: two previously drilled holes were inadvertently omitted from the map accompanying the memorandum of February 21. Locations of these holes are shown on figure 2 attached.

Walden P. Pratt

Walden P. Pratt
Geologist

E. O. Binyon

E. O. Binyon
Mining Engineer

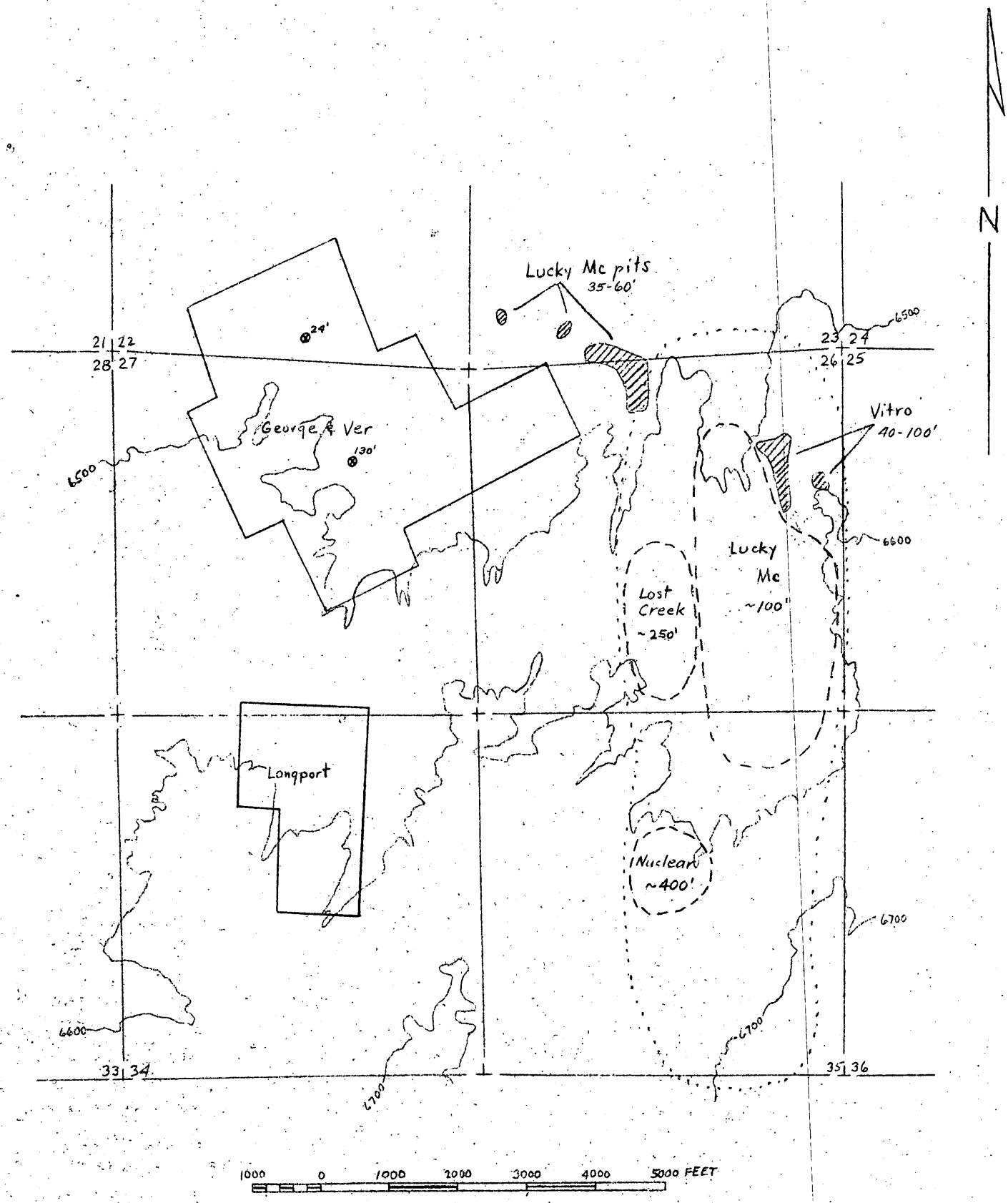

Figure 1. Known ore deposits near Longport claims

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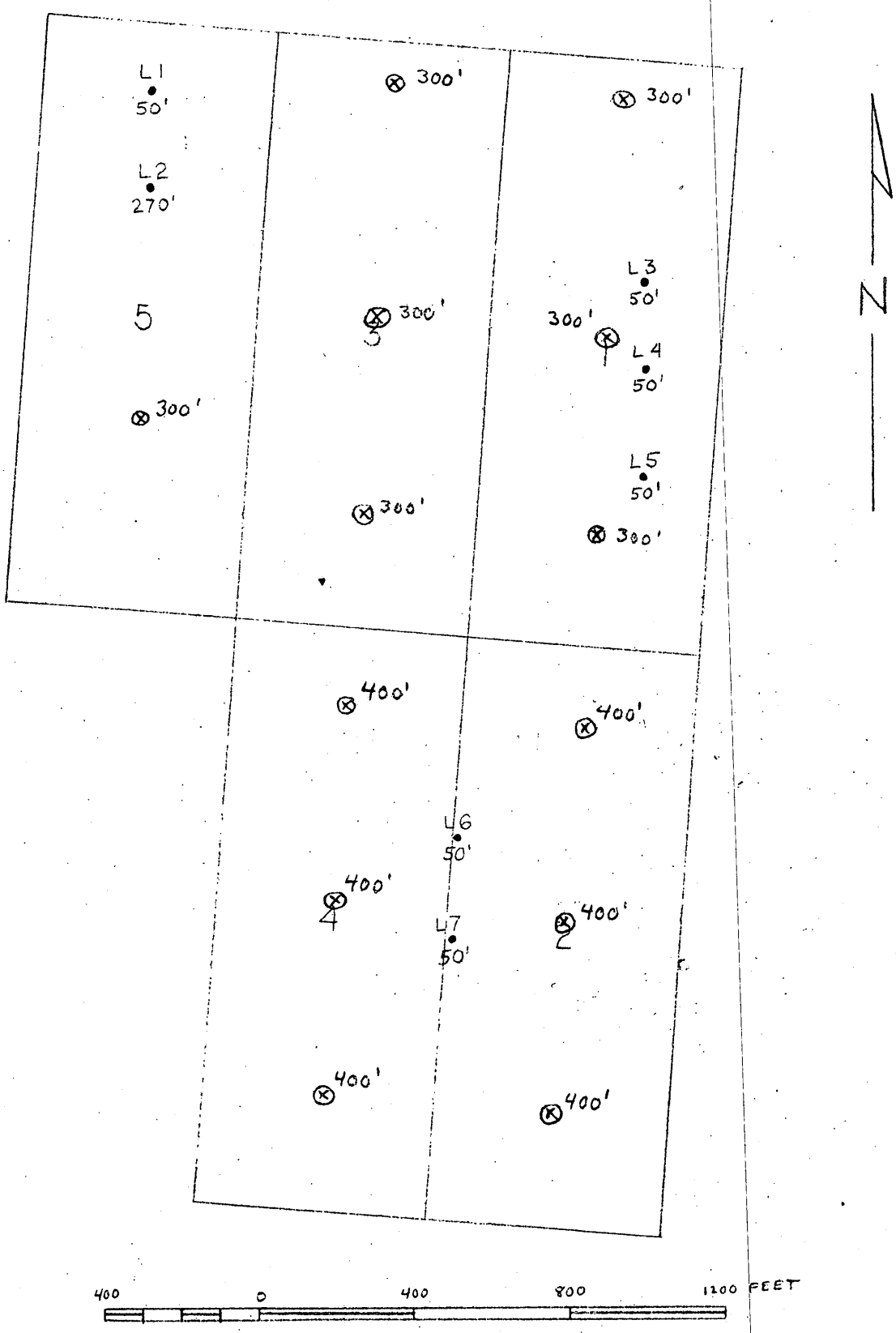

Figure 2. Location of Stage I holes and proposed Stage III holes
Longport claims

Holes L6 and L7 were omitted from memorandum of Feb. 21, 1957.

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DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/22	Kuyper	700
"	Ellis	700
"	Williams	USGS
		130
3/25	Johnson	110
"	Mittenday	100

MAR 25 1957

Department of the Interior

DMEA

11X1401(01) Revolving Fund,
Defense Production Act, Interior, (Transfer
to Office of Secretary)

Kiilsgaard
Lamb

T E L E T Y P E

E. N. HARSHMAN, ACTING EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REURMEMO MARCH 4, 1957, DMEA-4047 CHARLES M. COLEMAN AND ASSOCIATES. PLEASE FURNISH BETTER JUSTIFICATION FOR DRILLING RECOMMENDED ON LONGPORT CLAIM GROUP INCLUDING PERTINENT AVAILABLE DESCRIPTION OF NEARBY DEPOSITS. WOULD ALL HOLES PENETRATE ORE HORIZON IF DRILLED 300 FEET DEEP? TOPOGRAPHIC MAP OF CLAIM AREA SHOWS 100 FEET OF RELIEF.

W S Martin
ACTING CHAIRMAN, OPERATING COMMITTEE

FLKnouse/gla
3-22-57
cc to: Admr.'s Reading File
Operating Committee
Code 700
Mr. Knouse
THKiilsgaard, 5224
DMEA Field Team, Region III - confirmation

8623

RECEIVED MAR 18 1957		
DATE	INITIALS	CODE
3/18	C	220
3/18	[illegible]	800
		225

224 New Customhouse
Denver 2, Colorado

March 15, 1957

Mr. Robert Ford
Mining Geologist
Riverton, Wyoming

Re: Docket No. DMEA 4047 ([illegible])
Contract No. Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh, and Longpart
claims groups),
Fremont County, Wyoming

Dear Mr. Ford:

With reference to your letter of March 14, 1957, thank you for your expression of sympathy regarding the passing of Mr. Trover. We are sure the loss will be felt elsewhere within the Intermountain Region similarly as in our office.

Relative to your inquiry regarding the status of the application to provide additional work and funds under the subject Contract, the matter has been forwarded to the Washington Office, DMEA, for their consideration and appropriate action. You should receive advice as to the Government's decision in the matter within the very near future.

Very truly yours,

Original signed by
[illegible]

N. H. Marshman
Acting Executive Officer
DMEA Field Team, Region III

cc: Mr. John Kopuster
Mr. Kirkpatrick W. Dilling

JWT:prl

cc: Chairman, Op. Comm. (2)) w/copy of Mr. Ford's
Marshman) letter of March 14.
Shaw)
Townsend
Corres. file
Chron.

ROBERT FORD
Mining Geologist
Riverton, Wyoming

206 S. Broadway
P.O. Box 680

Office: Ulster 6-9405
Home: Ulster 6-3018

March 14, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 18 1957

DATE	INITIALS	CODE

DMEA
DEPARTMENT OF THE INTERIOR
MAR 15 1957
REGION III
DENVER, COLORADO

Executive Officer
DMEA Field Team, Region III
224 Custom House Building
Denver 2, Colorado

Dear Sir:

I would like to express my sincere regrets on the passing of Mr. Traver. I am sure he will be missed in your offices as much as he is by we who are engaged in field exploration and contracts of the DMEA.

I would greatly appreciate your advising me of the disposition made in the Amended Application For Aid In Exploration Project, Contract No. IDM-943 for Charles M. Coleman and Associates. This amended application was sent to your office on January 15, 1957 with the covering letter to Mr. Traver. It is my understanding that your field team has made the inspection of the property. The field season is now approaching when we can conduct the most economical exploration should this application be approved. I await your reply.

Very truly yours,

Robert Ford

RBF:cjb

cc: Mr. John Kopuster
Riverton Uranium Corporation
Riverton, Wyoming

Mr. Kirkpatrick W. Dilling
Riverton Uranium Company
139 North Clark Street
Chicago 2, Illinois

IN REPLY REFER TO:

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

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 15 1957

DATE	INITIALS	CODE
3-18	C	220
		225

March 14, 1957

Memorandum

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

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

Subject: Review of application for amendment, DMEA 4047, Contract Idm-E943, Charles M. Coleman and Associates, Marsh and Longport Claims, Gas Hills Area, Fremont County, Wyoming, (uranium).

The Operator requests an amendment to Contract Idm-E943 that would provide for 9,500 feet of drilling on the Longport claim group and 920 feet of drilling on the Marsh group, at a total estimated cost of $12,711.

The Operator drilled 28 holes on the Marsh group and 5 holes on the Longport group. None of the holes encountered commercial grade ore. The examining team believe that enough drilling has been done on the Marsh group to determine the potentialities. As a result, they do not recommend any additional drilling on the Marsh claims with the exception of three offset holes around hole No. M-11 which penetrated rock of 0.137 percent U_3O_8. The Field Examiners contend, however, that more drilling is warranted on the Longport claims because of the few completed holes that were drilled only to shallow depths.

At the time the subject contract was executed, it was thought that the ore bodies in the Gass Hills district were small, oxidized, pod-like deposits. Subsequent drilling has shown that much larger (100,000 tons) unoxidized deposits are to be found at depths up to 300 feet in the upper member of the Wind River formation of Eocene age. The past drilling on the Marsh claims extended to deeper depths; the Longport drilling did not.

At present, ore 'trends' on a restricted, very local scale probably cannot be projected for long distances. Ore bodies though large, are lenticular in character. It may be said for the applicant's property at this time that the claims are located within an area known to contain large ore bodies. The one deep hole on the Longport group shows the potential ore zone to be present.

After discussing the subject property with Field personnel

of the Geological Survey in Denver and after reviewing the available data about the district, I am in agreement with the Field Team's recommendations for amendment of the subject contract.

Because of the lenticular nature of the ore zone and the propensity of the Upper Wind River for lateral change, it may be difficult, or impossible, to identify in every case from drill bit cuttings alone the limits of the Upper Wind River formation. For those reasons it would be best, if a contract amendment is drawn, to specify the depth of holes as 300 feet, which should penetrate the ore zone.

Offset drilling would best be spaced 100 feet from existing holes although 150 foot spacing would serve.

W. P. Williams

W. P. Williams

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DATE	INITIALS	CODE
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		225

[illegible]
[illegible] OF THE INTERIOR
BUREAU OF MINES
Washington 25, D. C.

Date March 12, 1957

DMEA Docket No. 4047
DMEA Contract No. Idm-E943
Commodity Uranium
Name of applicant Charles M. Coleman & Associates
Name of property Clyde, Marsh, & Longport claims
Location of property Fremont County, Wyoming
Estimated cost of project $12,711.00

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee
[illegible] John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

[illegible] Amendment to Application
(Application, Field Team Report, etc.)

1. [illegible] subject test pits: 3/4/57. 2. Date received by reviewer: 3/12/57

3. [illegible] pits on this property known to reviewer: Yes [ ] No [ ]

4. [illegible] pits on nearby properties known to reviewer: Yes [ ] No [ ]

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

6. Other pertinent facts 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 [X]
- 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) Concur in a modified supplemental work program consisting of 10,020 feet of rotary non-core drilling at a total estimated cost of $10,906.34.

DMEA		
RECEIVED MAR 6 1957		
DATE	INITIALS	CODE
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		225

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

March 4, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claims groups), Fremont County, Wyoming.

Enclosed is the following material pertaining to an amendment to the subject Contract to provide additional work and funds:

1. The original and two copies of the Operator's request of January 15, 1957.

2. The original and three copies of a joint memorandum report, dated February 21, 1957, from Walden P. Pratt, Geologist, Geological Survey, and E. O. Binyon, Mining Engineer, Bureau of Mines.

3. Nine extra copies of two maps which show the work recommended on the Longport and Marsh groups of claims. maps (in envelope pocket)

The Operator requests approval of a two-stage supplemental work program consisting of 10,420 feet of rotary non-core drilling at a total estimated cost of $12,711.00.

The field examiners recommend, and this office concurs, in a modified supplemental work program consisting of 10,020 feet of rotary non-core drilling at a total estimated cost of $10,906.34.

Our records indicate that there is an unexpended balance or previously approved funds amounting to $2,722.00 (subject to audit), which can be applied toward the expense of the supplemental drilling program.

E. N. Harshman

E. N. Harshman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DMEA
DEPARTMENT OF THE INTERIOR
FEB 26 1957
REGION III
DENVER, COLORADO

OFFICIAL FILE COPY
DMEA
RECEIVED REGION III 1957
DATE | INITIALS | CODE

Building 20
Denver Federal Center
Denver 2, Colorado
February 21, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: John F. Shaw
E. N. Harshman

From: Walden P. Pratt
E. O. Binyon

Subject: Docket DMEA 4047 (Uranium) Contract Idm-E943
Charles M. Coleman and Associates (Clyde Marsh and Longport claims group) Fremont County, Wyoming

The operator has requested an amendment to the contract to permit drilling of 920 feet, in 9 holes, on the Marsh claim group, and 9,500 feet in 30 holes on the Longport claims.

The estimated cost of the entire program is $12,711.00 which with $2,722.00 remaining under the contract is $9,989.00 in additional funds that are requested.

Marsh claims

The applicant requests additional drilling on the Marsh claims on the basis of his opinion that the work thus far "has not exhausted the uranium ore potential". It is not the intent of the DMEA program to exhaust the potential of all properties explored, but rather to explore the potential to a reasonable extent; and such exploration has been accomplished on the Marsh claims. In addition to this objection based on policy are three objections based on the results of drilling to date. First, the requested additional drilling is aimed at an "encouraging pyritic 'blue clay'" bed 70 to 100 feet deep, which is thought to be a favorable horizon. According to the operator's drill logs the bed apparently corresponding to this is characterized by an absence of pyrite and a consistent low reading on the Babbel counter, neither of which can be interpreted as "significant mineralization" as stated in the application. If further drilling were to be undertaken, it should be aimed at a more favorable target. Second, the only favorable target indicated by the logs is a radioactive zone ranging from 178 to 216 feet deep. This zone averages about 1.5 feet thick and gives probe readings of 0.10 to 0.24 percent eU_3O_8 (0.10 to 0.24 on the 4 scale of the Babbel counter). Checks on the cuttings from this zone in several holes gave readings no greater than 2 to 3 times background. A 10,000-ton ore body averaging 1.5 feet thick would include an area some 250 by 400 feet and it is the opinion of the examining team that discovery of such an ore body in this area is unlikely. Third, it is questionable whether such an ore body at a depth of 170 to 220 feet and with a grade of 0.18 to 0.20 percent U_3O_8, could be worked economically. For these reasons it is recommended that no further work be done

with DMEA assistance in the northern part of the Marsh claims.

Hole M-11, in the southern part of the Marsh claims, penetrated a 3-foot zone at 27 to 30 feet that gave an average reading of 0.15 on the 4 scale of the Babbel counter; a 2-foot sample from this zone assayed 0.137 percent U_3O_8. The applicant requests four 50-foot holes, offset at 50 feet from this hole, to explore possible extensions of the mineralized zone. The examining team recommends approval of three holes, each 40 feet deep, offset at 50-foot intervals bearing due north, S. 60° E., and S. 60° W. from hole M-11. The lithology of the zone as recorded in the log--buff and chocolate-brown siltstones-- and its shallow depth below the surface suggest that it is probably an oxidized ore body.

The Longport claim group was not adequately explored by the 7 holes drilled under Stage I as these holes, with the exception of L2 , were drilled to a depth of only 50 feet. The operator's request for further drilling on these claims is warranted on the basis of the more recent geologic information that is available on the district in general.

The operator's program as proposed under the headings Stage II (as Amended) and Stage III (as Amended) does not adequately cover the Longport claims and three more holes than the 10 requested (under Stage II (as Amended) or 13 holes are considered necessary for exploration of these claims. A depth of 300 feet is sufficient for the holes.

In the request the operator designates Stage II (As Amended) for the drilling on the Longport claims and Stage III (as Amended) for the Marsh group. It is believed that Stage III should include the 3 offset holes on the Marsh claims and the 13 holes on the Longport group as recommended by the field team. The offset drilling recommended for the Longport claims is designated as Stage III Phase 1.

Estimated costs of the proposed program are as follows:

Time for completion of the project is assumed to be 2 1/4 months. This is based on 1 drill rig drilling 200 feet per shift for 26 days per month with an allowance of 1/4 month for the final report.

<u>Independent Contracts</u>:

10,020 feet of noncore drilling at $0.80/ft.	$ 8,016.00	
12 hours bulldozing drill sites at $12.50/hr.	150.00	
Stand-by time for probing 18 hrs. at $10.00/hr.	180.00	
Total Independent Contracts		$ 8,346.00

Incidental Allowance:		
Labor, Supervision, Consultants		
1 Geologist at $500.00/mo. for 2 1/4 mos.	$ 1,125.00	
1 Sampler at $1.75/hr. and overtime for 2 months	728.00	
Total Labor, Supervision and Consultants		$ 1,853.00
Operating Materials and Supplies:		
Sample bags 500 at $10.00/M	$ 5.00	
Total Operating Materials and Supplies		$ 5.00
Operating Equipment:		
Transportation 1,600 miles at $0.07/mi.	$ 112.00	
Total Operating Equipment		$ 112.00
Rehabilitation and Repairs:	None	
New Buildings, improvements, installation:	None	
Miscellaneous:		
Assays 110 samples at $3.50/sample	$ 385.00	
Accounting $50.00/mo.	112.50	
Payroll taxes and insurance 5% of $1,853.00	92.65	
Total Miscellaneous		$ 590.15
Contingencies:	----	-----
Total Estimated Costs		$10,906.15
Government participation at 75 percent		$ 8,179.61
Total Incidental Allowance (less Assays)	$ 2,175.15	
Total Incidental Allowance 0.2171 per foot		

Stage III

Independent Contracts:

(Longport)-13 holes--3,900 feet of noncore drilling at $0.80	$ 3,120.00	
(Marsh)- 3 holes--120 feet of noncore drilling at $0.80	96.00	
4 hours bulldozing at $12.50/hr	50.00	
Stand-by time for probing 8 hrs. at $10.00	80.00	
Total Independent Contracts		$ 3,346.00

Incidental Allowance:

3,900 feet of noncore drilling at $0.2171/ft.	$ 846.69	
120 feet of noncore drilling at $0.2171/ft.	26.05	
Assays 50 samples at $3.50	175.00	
Total Incidental Allowances		$ 1,047.74
Total Stage III		$ 4,393.74
Government participation at 75 percent (rounded)		$ 3,295.30

Stage III - Phase 1

Independent Contracts:

20 holes - 6,000 feet noncore drilling at $0.80/ft.	$ 4,800.00	
8 hrs. bulldozing drill sites at $12.50/hr.	100.00	
Stand-by time for probing 10 hrs. at $10.00/hr.	100.00	
Total Independent Contracts		$ 5,000.00

Incidental Allowances:

6,000 feet of noncore drilling at $0.2171/ft.	$ 1,302.60	
Assay 60 samples at $3.50/sample	210.00	
Total Incidental Allowances		$ 1,512.60
Total Stage III - Phase 1		$ 6,512.60
Government participation at 75 percent		$ 4,884.45

Summary of Costs:

Stage III	16 holes	4,020 feet	$ 4,393.74
Stage III Phase 1	20 holes	6,000 feet	6,512.60
Total	36 holes	10,020 feet	$10,906.34
Government participation at 75 percent			$ 8,179.76

The total cost of $10,906.34 less $2,722.00 remaining from Stage I and Stage II of Contract Idm-E943 leaves $8,184.34 the additional funds required for the proposed drilling.

The drilling, sampling, radiometric probing, and lithologic logging shall be done as stipulated in Exhibit A of the original contract.

It is recommended that the contract amount be increased by $8,184.34 and that the proposed drilling program as outlined be approved.

Walden P. Pratt

Walden P. Pratt
U. S. Geological Survey

E O Binyon

E. O. Binyon
U. S. Bureau of Mines

EOB:jg

cc: 9 w/orig
Idm-E943
Harshman
Chron.

ROBERT FORD
Mining Geologist
RIVERTON, WYOMING

206 S. BROADWAY
P. O. Box 428

OFFICE: ULSTER 6-3468
HOME: ULSTER 6-3516

January 15, 1957

DMEA
DEPARTMENT OF THE INTERIOR
JAN 21 1957
REGION III
DENVER, COLORADO

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

Dear Mr. Traver:

Enclosed herewith is the application for amendment to DMEA Exploration Contract Idm-E-943, Charles M. Coleman and Associates.

This application is prefaced by form No. MF-103. This application should be considered as an amendment to the above contract number, as you requested during my recent visit to your office.

Form MF-103 has attached to it Annex I, which gives the legal description of the Marsh and Longport claim groups and the book and page numbers for each recorded location notice thereof.

Following this is a short report including the location and extent of all previous work performed on the property under the DMEA contract together with suitable geologic maps and radiometric logs showing all the work performed to date. There is also a narrative justifying the program and describing the reasons and geological inferences for the proposed exploration program. Also an itemized breakdown of estimated costs of performing the proposed work is included. The drilling costs are supported by the enclosed contract bids.

Please advise me if this report with associated maps and logs is in complete enough detail to comply with Article 7-C of the DMEA contract, as is necessary to have funds already expended refunded by the DMEA on the previous contract work. It was my understanding from Mr. Dilling and through copies of various correspondence between him and your office that several hundred dollars was being withheld pending receipt in your office of a final report summarizing the work to date.

If this report is not in complete enough detail to free these monies, please advise me as to the further information necessary for your office.

Very truly yours,

Robert Ford

Encl.

cc: Kirkpatrick Dilling
129 N. Clark St.
Chicago, Ill.

cc: John Kopuster
Riverton Uranium Corp.
Riverton, Wyo.

DMEA
JAN 6 1957
DATE | INITIALS | CODE

BEAVERS AND HARRIS
DRILLING COMPANY
BOX 176
RIVERTON, WYOMING

Riverton, Wyoming
January 11, 1956

Charles M. Coleman & Associates
Att: Mr. Bob Ford(agent)
Riverton, Wyoming

Dear Sirs;

In reply to your request for drilling prices on a drilling program in the Gas Hills area of Wyoming.

We are pleased to quote the following footage prices in connection with the Marsh and Longport claims

Type Drilling/~~Drilling~~	Depth Range	Drill/Foot	Standby Time
air & water	400 ft. Max.	$ .90	$12.50 hr.

It is our understanding the Operator will prepare necessary roads and clear vegetation and level drill sites to the extent necessary for drilling. The Operator will furnish the right of egress and ingress.

Very truly yours,

Hugh M. Harris

Hugh M. Harris

hmh

PHONE GIbson 7-8847

B. C. COUCH DRILLING CO.

JENKINS BUILDING 515 SO. MAIN

TULSA, OKLAHOMA

January 11, 1957

Charles M. Coleman and Assoc.
Att: Robert Ford, Agent

The following bid is submitted on combined air-water rotary drilling, on the Marsh and Longport claim groups in central Gas Hill, Fremont County, Wyoming:

0'-350' at $0.70 per foot.

Sincerely yours,

B. C. Couch

B.C. Couch Drilling Co.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED DATE SEP 6 1957 MINERALS CODE

DMEA
DEPARTMENT OF THE INTERIOR
JAN 21 1957
REGION III
DENVER, COLORADO

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

Not to be filled in by applicant

Project No. .....
Metal or Mineral .....
Date Received .....
Estimated Cost .....
Participation (Government %) .....

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Charles M. Coleman, J. R. Deimerly, Albert W. Dilling, Leonard D. Carmichael, Kirkpatrick W. Dilling, and Mabel M. Carmichael, Partners
139 N. Clark Street
Chicago, Illinois

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Marsh Claim Group - 6 claims in Secs. 15, 22 and 23, T. 32 N., R. 91 W., 6th P.M.
Longport Claim Group - 5 claims in Secs. 27 and 34, T. 33 N., R. 90 W., 6th P.M.

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

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

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

(*e*) If you own the land, describe any liens or encumbrances on it none other than DMEA contract No. Idm-E 943, of which this application is a revision thereof.

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

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

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

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

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore uranium Minerals and ore thereof.

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

(*c*) The work will start within 15 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated January 11, 1957

Charles M. Coleman and Associates
(Applicant)

By Robert Ford

Agent

Charles M. Coleman and Associates

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

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

APPLICATION FOR AID IN EXPLORATION PROJECT
CONTRACT NO. IDM-943 (to be amended)
-FOR-
CHARLES M. COLEMAN AND ASSOCIATES

ANNEX I

The property rights referred to in paragraph 3 of the Application For Aid In An Exploration Project consists of 11 unpatented lode mining claims known as the Marsh and Longport groups, situated in Fremont County, Wyoming, as follows:

Marsh Group	-6 claims in secs. 32 and 33, T. 33 N., R. 90 W., 6th P.M.
Longport Group	-5 claims in secs. 27 and 34, T. 33 N., R. 90 W., 6th P.M.

Notices of location of the foregoing groups of claims are recorded in the Office of the Recorder of Fremont County at Lander, Wyoming, as follows:

Claim	Book No.	Page No.	Amended Notices of Location Book	Page
Marsh No. 1	59	418	(	
Marsh No. 2	59	419	(	264
Marsh No. 3	59	420	(86	thru
Marsh No. 4	59	421	(	269
Marsh No. 5	59	422	(	
Marsh No. 6	59	423	(	
Longport No. 1	59	413	(	
Longport No. 2	59	414	(	280
Longport No. 3	59	415	(86	thru
Longport No. 4	59	416	(	284
Longport No. 5	59	417	(	

Registered survey copies of these claim groups have been submitted under Docket No. DMEA 4047 Contract No. Idm-E-943, to which this application is an amendment. These claims are also shown on the map entitled, "Fig. 2 Exploration Map showing Geology, Locations of Clyde, Longport, Marsh and Prince Claim Groups, Charles M. Coleman and Associates, Fremont County, Wyoming, DMEA Docket No. 4047," attached to the original contract No. Idm-E-943.

APPLICATION FOR AMENDMENT TO
DMEA EXPLORATION CONTRACT Idm-E-943
CHARLES M. COLEMAN AND ASSOCIATES

PURPOSE

This application for exploration assistance is made on behalf of Charles M. Coleman and Associates, Albert W. Dilling, Administrator, 139 North Clark Street, Chicago, Illinois. The purpose is to amend the original DMEA Contract Idm-E-943. It is requested that unexpended monies of the original contract in the amount of $2,721.00, plus $9,990.00 be appropriated for additional work on the Longport and Marsh claim groups. The following report is intended to cover the necessary detailed information needed by the DMEA to substantiate application form MF-103.

PREVIOUS WORK PERFORMED

Longport Claim Group

Seven rotary non-core holes were drilled at locations designated on the accompanying map, as proposed in DMEA Stage I, Contract No. Idm-E-943. All holes were drilled to a depth of fifty feet, except hole No. L-2, drilled to a depth of 270 feet. (Fifty feet was specified in the contract). These seven drill holes on the Longport claims 1 through 5 tested surface anomalies only and did not penetrate the Wind River formation deep enough to intercept ore bearing horizons proven commercial on nearby claims. The seven holes drilled did not intercept significant mineralization. The drill logs of the seven holes are attached hereto.

Marsh Claim Group

DMEA Contract Idm-E-943 allowed Stage I and Stage II drilling on the Marsh claim group. In all, 710 feet of drilling was performed under Stage I and 2,480 feet under Stage II. Significant mineralization

was found and is indicated on the accompanying drill hole logs. Drill hole location and cross sections indicating the potential ore bearing horizons are shown on the maps accompanying this report.

JUSTIFICATION FOR PROPOSED EXPLORATION

It is the writer's considered opinion that work performed to date on the Marsh claim group has not exhausted the uranium ore potential. Two main pyritic "blue clay" beds were found as indicated on the accompanying cross sections. It is recommended herein that the uppermost pyritic "blue clay" bed be tested by further drilling as there is room for an economic ore body in this zone. The zone referred to averages 100 feet deep and contains significant mineralization. The plan map shows the areal extent of this encouraging pyritic "blue clay" as a cross-hatched area. Stage II drilling on the Marsh claims never authorized offsetting hole M-11. Hole M-11 drill hole probe indicated over four feet of ore grade material at depths of 26 to 30 feet.

The Longport claim group has not been tested except by shallow fifty foot drill holes, except for one hole that could not possibly penetrate the ore bearing horizons of that area. An ore bearing strata or series of pyritic "blue clays" begins in sections 22 and 23 of the same township and posses southward through section 26 and almost across section 35. The ore bearing strata deepens southward. Where exposed in the Lucky Mc pit in section 23, it is at a depth of 60 to 80 feet. Southward near the center of section 35 the ore is 270 feet deep as drilled by Lucky Mc Uranium Corporation. The same ore bearing strata is shared by Vitro Minerals in sections 25 and 26 and Lost Creek Oil and Uranium Corporation in sections 26 and 27. On the Frazer-Lamac claims in the southwest quarter of section 26, the ore is 310

feet deep due to a rise in topography. The writer cannot divulge confidential tonnage figures; however, it can be said that the ore bearing strata is almost continuous over an area 2 miles long and nearly one mile wide. The ore as shared by the above mentioned three companies consists of several million tons.

The ores in these sections are immediately east of the Longport claims and it extends to within 1,000 feet of the Longport claims. The interval between has not yet been drilled. Topography and structure considered, would indicate that the ore bearing horizon would be at depths of 290 to 320 feet on the Longport claims.

PROPOSAL FOR ADDITIONAL WORK

Longport Claim Group

It is requested that ten holes 350 feet deep be considered in Stage II, as amended, on the Longport claims. These holes shall be drilled in the locations shown on the accompanying map. The depths will be great enough to intersect the ore bearing strata and the lower Wind River formation. The ten holes will then penetrate the entire uranium productive Upper Wind River formation.

It is recommended that provisions also be made to appropriate monies for Stage III, as amended. This Stage III would permit offset drilling on mineralized or ore bearing holes. These offset holes may average 300 feet deep. Ore thickness and continuation on nearby claims is such that only 100 feet drill centers is needed in blocking out ore. 6,000 feet of Stage

III, as amended, drilling would allow for twenty drill holes of the depths needed to intersect the ores.

Total Stages II and III, as amended, drilling would then be 9,500 feet.

Marsh Claim Group

The attached CLAIM MAP shows a cross½hatched area of the areal extent of the upper "blue clay" horizons which Stage I and Stage II drilling have indicated to be interesting. This area is of pyritic "blue clay" five to ten feet thick. Drill holes M-101 through M-106 have already cut the horizon. It is recommended, therefore, that Stage III, as amended, consist of the following drill holes also shown on the accompanying map.

1. Drill offset to hole M-2 to a depth of 120 feet.
2. Drill two holes 120 feet deep between M-105 and M-106 and between M-105 and M-104.
3. Drill one hole 120 feet deep, 100 feet west of the 1/4 corner.
4. Drill four offset holes to M-11, each fifty feet deep.
5. One deep hole should offset the ore in drill hole M-105 at a depth of 240 feet.

Total Stage III, as amended, drilling recommended is 920 feet.

ESTIMATED COSTS

Two drilling bids are submitted with this request for aid in exploration work. The following costs are calculated on the basis of an average cost of these bids inasmuch as it is always questionable if the same contractors will be available when the exploration commences.

Longport Claim Group

Stage II (As Amended)

3,500 feet rotary non-core drilling @ 80¢	$ 2,800.00
8 hours bulldozing drill sites @ $13.00	104.00
50 assays @ $3.50/ determination	175.00
Supervision, geological and engineering	400.00
Sampling @ $1.75/hr. and overtime	225.00
Radiometric hole logging @ 10¢/foot	350.00
Mileage, 600 miles @ 10¢	60.00
Sample bags	5.00
Total:	$ 4,119.00

Stage III (As Amended)

6,000 feet rotary non-core drilling @ 80¢	$ 4,800.00
16 hours bulldozing drill sites @ $13.00	208.00
100 assays @ $3.50/ determination	350.00
Supervision, geological and engineering	750.00
Sampling @ $1.75/hr. and overtime	400.00
Radiometric hole logging @ 10¢/foot	600.00
Mileage, 1000 miles @ 10¢	100.00
Sample bags	5.00
Total:	$ 7,213.00

Marsh Claim Group

Stage III (As Amended)

920 feet rotary non-core drilling @ 80¢	$ 736.00
8 hours bulldozing drill sites @ $13.00	104.00
20 assays @ $3.50/ determination	70.00
Supervision, geological and engineering	200.00
Sampling @ $1.75/hour and overtime	175.00
Radiometric hole logging @ 10¢/foot	92.00
Sample Bags	2.00
Total:	$ 1,379.00

Total estimated costs of exploration aid on the Marsh and Longport claim groups Stages II and III, as amended, is $12,711.00.

Respectfully submitted,

Robert Ford

Robert Ford, Agent
Charles M. Coleman and Associates

January 15, 1957

MARSH GROUP

Elevation of Collar of Holes in Stage I and Stage II Drilling.

STAGE I

Brunton and cloth tape survey.

Collar of hole M-3 assumed to be 6582 feet.

Hole No.	Collar Elevation
M-1	6601
M-2	6600
M-3	6582
M-4	6594
M-5	6598
M-6	6618
M-7	6635
M-8	6625
M-9	6628
M-10	6608
M-11	6631
M-12	6633
M-13	6641
M-14	6656
M-15	6655
M-16	6618
M-17	
M-18	

STAGE II

Plane table survey.

Connected to hole M-3 with assumed elevation 6582 feet.

Hole No.	Collar Elevation
M-101	6577.2
M-102	6580.4
M-103	6586.8
M-104	6586.5
M-105	6594.5
M-106	6588.5
M-107	6588.9
M-108	6617.0
M-109	6609.9
M-110	6634.5

DRILL HOLE LOG

Hole No. M-1 Date Drilled May 8, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY
Babbel Counter			
Feet	Reading 5 Scale		
0	.05	No Samples	0'-10' Tan to lt. brown fine gr. silty ss. Strong FeOx stain.
1-69'	.05-.07		10-18' Buff to tan fine gr. ss.
			18-21' Buff to tan coarse gr. arkosic ss.
			21-39' Tan Coarse gr. ss. and congl. pbls. to 1" dia.
			39-46' Buff, coarse gr., congl. ss.
			46-54' Lt. dull brown, coarse gr., ss. some large pbls.
			54-57' Med. gray cobble congl. Black chert fragments with usual qtz., qtzite. and feldspar fragments.
			57-70' Buff, coarse gr. congl. ss.
			T.D. 70'

Hole No. M-2 Date Drilled May 8, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY
Babbel Counter			
Feet	Reading 5 Scale		
0-1	.05		0'-4' Soil
1.5	.08	No Samples	4 -6' Bright light brown, heavily FeOx stained, silty fine gr. ss
2.0	.10		6 -10' Buff, fine gr. ss.
3.0	.08		10-14' Med. gray congl.
3.5	.06		14-18' Buff to tan coarse gr. ss.
4.0-67.5	.02-.06		18-23' Bright lt. brown, FeOx stained, coarse gr. ss.
			23-24' Tan Congl.
			24-30' Tan Med. grained ss.
			30-34' Buff coarse gr. ss.
			34-47' Buff to gray cobble congl. Some black chert pebbles.
			47-58' Buff coarse gr. congl. ss.
			58-70' Tan coarse gr. congl. ss.
			T.D. 70'

DRILL HOLE LOG

Hole No. M-3 Date Drilled May 10, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale	Reading 4 Scale
0	.03	
1-35	.03-.05	
36	.06	
36.5	.07	
37	.11	
37.5	.10	
38	.07	
39	.04	
40-175	.01-.03	
176	.08	.05
176.5	.10	.05
177	.13	.05
177.5	.16	.08
178	.29	.11
178.5	.56	.19
179	.74	.21
179.5	.85	.22
180	.79	.20
180.5	.50	.17
181	.27	.11
181.5	.16	.06
182	.10	.04
182.5	.06	.05
183	.09	.05
183.5	.09	.06
184	.09	.06
184.5	.18	.08
185	.28	.12
185.5	.77	.22
186	.95	.26
186.5	.68	.18
187	.36	.11
187.5	.18	.07
188	.12	.06
188.5	.09	.04
189	.06	.03
190-193	.03-.05	
194-247	.01 .03	

Caved at 247'

SAMPLE DATA

Feet	$\%U_3O_8$
196-198=	.01
198-200=	.02

LITHOLOGY

0'-6' Soil
6 -17' Cobble conglomerate-buff.
17-30' Buff, coarse gr. ss.
30-70' Buff to tan, coarse gr. ss. 41'-46'-pebble congl.
70-76' Buff, coarse gr. ss.
76-80' Buff, coarse gr. congl. ss. Some silt.
80-84' Buff, coarse gr. ss.
84-88½ Blue gray siltstone
88½-106' Light greenish gray med. to coarse gr. ss.
106-132' Greenish-gray med. gr. silty ss.
132-136' Lt. gray coarse gr. ss.
136-140' Greenish gray silty ss.
140 164' White to lt. gray coarse gr. ss.
164 189' Lt. greenish gray coarse gr. ss.
189-205' Lt. greenish gray med. gr.
205-246' Green siltstone.
246 262' Med. gray ss. with some dark blue gray siltstone.
262-280' Intermixed red & gray silt stone-some coarse ss.

T.D. 280'

Bottom of upper Wind River formatio believed to be at 262'.

Slight radiometric count in wet cuttings from 188' to 206'.

REMARKS: no cuttings 126' - 130', 138' - 140'. Water at 140'
Below 140' samples ore cuttings taken from water at hole collar in steel sump tank by shovel.

DRILL HOLE LOGS

Hole No. M-4 Date Drilled May 8, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale
0	.04
1 15	.04-.06
16	.12
17	.18
18	.08
19	.04
20-76.5	.02-.5

SAMPLE DATA

19'-20'=.04% U_3O_8

20'-22'=.01% "

LITHOLOGY

0-1'	Soil
1-19'	Tan, coarse gr. congl. ss.
19-20'	Chocolate brown fine gr. silty ss. Last 1" or so white silty ss.
20-22'	Lt. brown, coarse gr., congl. s
22-31'	Lt. gray to buff cobble congl. Fragments black qtz.
31-38'	Buff coarse gr. congl. ss.
38-52'	Buff, coarse gr. ss., congl. in part.
52-62'	Tan, coarse gr. ss.
62-64'	Bright lt. brown, coarse gr. ss
64-70'	Tan, coarse gr. ss.

T.D. 70'

Hole No. M-5 Date Drilled May 9, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale
0	.04
1-45	.04-.06
45-113.5	.03-.05

SAMPLE DATA

No Samples

LITHOLOGY

0'-1'	Soil
1-14'	Dull lt. brown fine gr. ss. conglomeratic
14-16'	Tan, med. gr. ss.
16-30'	Tan, coarse gr. congl. ss.
30-50'	Cobble Congl.
50-58'	No cuttings-drilled like soft s
58-85'	Buff to tan coarse gr. ss.
85-92'	Lt. gray-green coarse gr. ss.
92-97'	Buff, coarse gr. ss.
97-98'	Blue-gray siltstone
98-102'	Lt. gray coarse gr. ss.
102-105'	Blue-gray siltstone
105-120'	Blue-gray fine gr. ss.

T.D. 120'

DRILL HOLE LOG

Hole No. M-6 Date Drilled May 8, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babbel Counter				
	Reading		0'-6'	Buff pebble congl.
Feet	5 Scale		6 -13.5	Tan coarse gr. congl. ss.
0	.02	No Samples	13.5-15	Lt. gray med. gr. ss
1-67.8	.02 .04		15-30'	Tan, Coarse gr. ss.
			30-38'	Buff to tan coarse gr. ss.
			38-54'	Cobble congl., buff to tan. Black chert fragments.
			54-66'	Lt. gray cobble congl.
			66-70'	Buff to tan coarse gr. ss.
			T.D. 70'	

REMARKS: Cobble congl. 38' - 66' very hard drilling. Much extra sand blown out. Must be large diameter hole in places.

Hole No. M-7 Date Drilled May 8, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babbel Counter				
	Reading		0-1'	Soil
Feet	5 Scale		1-6½'	Buff conglomerate
0	.04	No Samples	6½-12	Buff to tan congl. and coarse gr. ss.
1-75.5	.02-.05		12-20	Tan coarse gr. ss.
			20-30	Buff to tan congl. and coarse gr. ss.
			30-36	Siltstone - White to lt. gray spotted with FeOx stain. Probably stained in alternate beds.
			36-42	Tan, med. gray ss.
			42-67	Tan, coarse gr. ss. 3' med. grain. at 48'-51'.
			67-75	Buff to tan boulder congl.
			75-83	Med. gray boulder congl.
			T.D. = 83' Hole caved	

REMARKS: The conglomerate from 67' to 83' was very hard drilling and wore out two bits. Such a large amount of sand was blown from the hole during t slow drilling that it is believed no satisfactory samples could be obtained from greater depths even if the hole could be drilled deeper.

DRILL HOLE LOG

Hole No. M-7-A

Date Drilled May 16, 1956

PROBE DATA

Rabbel Counter

Feet	Reading 5 Scale
0	.03
1-30	.02-.04
31	.07
32	.08
33	.09
34-35	.08
36	.07
37-55	.04
56	.07
57	.06
58	.04
59-71	.04-.06
72	.08
73	.08
74-75	.06
76-77	.05
78-84	.06
85-86	.04
87-88	.06
89-113	.04
114-115	.06
116-123	.04
124-126	.06
127-131	.04
132	.05
133-140	.03-.04

SAMPLE DATA

No Samples

LITHOLOGY

Log of M-7 satisfactory to 52'

54-56'	Conglomerate-buff (cont. Qtz., Blk. chert.)
56-62	Tan to buff ss. med. gr.
62-64	Fine gr. tan ss. & FeOx.
64-70	Buff boulder cong.
70-72	Tan fine gr. ss.
72-86	Buff bldr. congl.
86-88	Buff ss. 6" blue clay. Parting 87.5 - 88'.
88-108	Buff ss. Med. to fine gr.
108-110	Gray boulder congl.
110-122	Buff & tan ss. med. gr. & FeOx & bl. clay partings.
122-124	Buff fine gr. ss. Blue green shale parting (± 4")
124-140	White to tan ss. med. to fine gr.

T.D. 140'

DRILL HOLE LOG

Hole No. M-8 Date Drilled May 9, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale
0	.04
1-30	.03-.05
31	.07
32	.10
33-34	.09
35	.16
36	.20
37	.14
38	.11
39	.06
40-58	.04-.06

Caved at 58'

SAMPLE DATA

Feet	$\%U_3O_8$
36'-38'	= .02

Chocolate & buff silt.

LITHOLOGY

0-4'	Buff to tan siltstone
4-14'	Buff, coarse gr. ss.
14-33'	Buff to tan, coarse gr. congl. ss. Siltstone beds 20'-23'
33-39'	Siltstone-beds buff, tan, white, 36'-37.5' chocolate.
39-52'	Buff to tan coarse gr. ss.
52-60'	Tan, Med. gr. ss.
60-70'	Tan, cobble congl.

T.D. 70'

Hole No. M-9 Date Drilled May 11, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale	4 Scale
0	.03	
1-35	.02-.04	
36	.04	
36.5	.07	.01
37	.10	.03
37.5	.13	.03
38	.08	.03
38.5	.08	.03
39	.06	.02
39.5	.04	
40-66	.02-.04	

SAMPLE DATA

No Samples

LITHOLOGY

0-3'	Soil
3-9	Tan, coarse gr. ss. & congl.
9-22	Tan, coarse gr. ss. Few inches lt. gray siltstone at 10'. Much interbedded lt. gray silt 12'-14'.
22-23	Tan siltstone
23-25	Bright brown coarse gr. ss.
25-30	Light gray pebble congl.
30-30.5	Buff siltstone
30.5-32	Tan, coarse gr. ss.
32-34	Med. gray, fine gr. ss. some buff silt.
34-36	Lt. blue gray siltstone.
36-40	Interbedded med. gray ss. and blue gray silt.
40-43	Med. gray ss.
43-45	Blue gray siltstone
45-46.5	Tan sandy siltstone.
46.5-54	Tan to buff, med. gr. ss.
54-63	Tan, coarse gr. ss.
63-70	Cobble conglomerate

T.D. 70'

DRILL HOLE LOG

Hole No. M-10 Date Drilled May 9, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babbel Counter				
	Reading		0-2	Soil
Feet	5 Scale		2-6	Banded buff, tan, brown siltstone
0	.04			
1-69	.02-.05	No Samples	6-8	Buff, fine gr. ss.
			8-10	Tan, med. gr. ss.
			10-12.5	Lt. gray, coarse gr. congl. ss.
			12.5-18	Buff to tan, siltstone
			18-22	Lt. gray fine gr. ss.
			22-26	Tan, med. gr. ss.
			26-32	Buff to tan coarse gr. ss.
			32-34	Buff to tan siltstone
			34-36	Tan, fine gr. ss.
			36-60	Buff, coarse gr. ss.
			60-70	Cobble conglomerate-buff

T.D. 70'

DRILL HOLE LOG

Hole No. M-11 Date Drilled May 9, 1956

SCOPE DATA

Babbel Counter Reading

Feet	5 Scale	4 Scale
0	.05	
1-3	.05-.06	
3.5	.10	
4	.12	
5	.11	
6	.10	
7	.07	
8-25	.06-.07	
26	.10	.08
27	.20	.11
27.5	.56	.14
28	.50	.20
29	.30	.17
29.5	.14	.11
30	.10	.08
31	.08	
32	.10	
33	.09	
34-35	.22	
36	.11	
37	.08	
38	.06-.08	
39-50	.05	
50-67.5		

SAMPLE DATA

Feet	% U_3O_8
4'-6'=	.08
28'-29.5=	.137
36'-38'=	.048

2" carbon at 41.5=.12

LITHOLOGY

0-8'	Buff siltstone. Last 1' strong brown FeOx stain.
8-15	Buff coarse gr. ss.
15-16	Brown FeOx stained, coarse gr. ss.
16-19	Lt. gray coarse gr. ss.
19-26	Tan, coarse gr. ss. few inches buff siltstone at 24'.
26-28	Buff siltstone
28-29.5	Chocolate brown siltstone with considerable carbon.
29.5-33	Tan, coarse gr. congl. ss.
33-36	Buff, fine gr. silty ss.
36-37	Med. gray silty ss.
37-40	Blue-gray siltstone
40-42	Tan, fine gr. ss. 2" carbon streak at 41.5'.
42-58	Buff to tan, fine gr. ss. 2" blue-gray siltstone at 43.5'. 1' coarse gr. ss. at 50'.
58 68	Tan, coarse gr. ss.
68-70	Cobble congl. - tan.

T.D. 70'

DRILL HOLE LOG

Hole No. M-12-A

Date Drilled May 16, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Nuclear Corrected				
Feet	Reading S Scale		0-2	Soil
0	.05	130'-132'=.02% U_3O_8	2-6	Med. gr. ss. - buff.
1-60	.02-.03	132'-134'=.02% U_3O_8	6-8	Mixed buff ss. & cong.
61-76	.02		8-16	Buff to tan cong. (Pbl.) & FeOx.
77-79	.04		16-18	Brown to tan siltstone.
80-96	.00		18-22	Lt. tan ss. med. gr.
100-102	.02		22-26	Lt. tan ss. coarse gr.
103-125	.00		26-42	Lt. tan to buff ss. med. to coarse.
126-131	.02		42-44	Brown ss. Fine gr. blue silt at bottom (44').
132	.04		44-75	Buff to tan ss. Blue clay parting at 48' (± 4").
132.5	.10		75-90	Boulder cong. cont. wh. qtz. & blk. chert.
133	.06		90-92	Tan ss. (med. gr.) & blue clay.
134-139	.02		92-130	Lt. tan to buff ss. med. gr. Light color 122'-120'.
140	.00		130-134	White ss. med. gr. blue clay parting.
			134-140	Light gray ss. med. gr.

T.D. 140'

DRILL HOLE LOG

Hole No. M 13 Date Drilled May 9, 1956

PROBE DATA

Babbel Counter Reading

Feet	5 Scale	4 Scale
0	.04	
1-63	.04-.07	
64	.07	.04
65	.12	.04
65.5	.18	
66	.22	.09
67	.16	.07
68	.11	.05
69	.10	
70	.08	
71	.06	
72-105	.04-.06	

Cased at 105'

SAMPLE DATA

66'-68'=.056% U_3O_8

LITHOLOGY

0-4	Lt. gray, med. gr. ss.
4-8	Lt. gray & tan, coarse gr. ss.
8-17	Lt. gray, buff & tan siltstone.
17-30	Lt. gray to buff, coarse gr. ss.
30-33	Lt. gray congl.
33-44	Lt. gray, coarse gr., congl. ss.
44-58	Buff, coarse gr. ss. conglomeratic in places.
58-74	Blue-gray siltstone. 66-68= more dull gray.
74-92	Buff to tan, coarse gr. ss.
92-120	Cobble, conglomerate-buff to tan.

T. D. 120'

Hole No. M-14 Date Drilled May 11, 1956

PROBE DATA

Babbel Counter Reading

Feet	5 Scale
0	.03
1	.02
2	.05
3	.05
4	.03
5-67	.01-.03

SAMPLE DATA

No Samples

LITHOLOGY

0-2'	Soil
2-5	Buff, coarse gr. congl. ss.
5-10	Lt. gray, fine gr. ss.
10-12	Buff to tan, sandy siltstone.
12-16	Buff to lt. gray Med. gr. ss.
16-34	Green-gray, coarse gr. ss. Tan streaks
34-42	Buff, coarse gr. ss.
42-51	Lt. green-gray coarse gr. ss.
51-53	Interbedded tan ss. & lt. gray siltstone.
53-60	Lt. gray, med. gr. ss. few coarse gr.
60-62	Tan, coarse gr. ss.
62-68	Lt. gray to buff, coarse gr. ss.
68-70	Tan, very coarse gr., congl. ss.

T.D. 70'

DRILL HOLE LOG

Hole No. M-15 Date Drilled May 11, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale
0	.03
1-69.8	.02-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-1'	Soil
1-4	Buff, fine gr. ss.
4-6	Buff, med. gr. ss.
6-10	Tan, coarse gr. ss.
10-16	Lt. gray to buff, coarse gr.ss.
16-20.5	Tan, coarse gr. ss. At 16' large piece black silicified wood.
20.5-22.5	Lt. gray, fine gr. ss.
22.5-24	Gray siltstone & fine gr. ss.
24-26	Dark green-gray, silty, coarse gr. ss.
26-28	Blue-gray siltstone.
28-34	Dull, green-brown, med. gr. ss
34-45	Lt. gray, med. gr. ss.
45-52	Lt. gray, coarse gr. ss.
52-53	Banded lt. gray & brown, fine gr. ss.
53-60	Lt. gray, fine gr. ss.
60-70	Lt. gray to buff, coarse gr. ss.

T.D. 70'

Hole No. M-16 Date Drilled May 11, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale
0	.03
1-67.8	.02-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-2.5	Soil
2.5-6	Lt. gray coarse gr. ss.
6-20	Tan, coarse gr. ss. 11'-12' - Lt. gray, med. gr. ss.
20-24	Tan & bright lt. brown, coarse gr. ss.
24-45	Lt. gray to buff, coarse gr. ss Few beds pebble congl.
45-47	Tan, coarse gr. ss.
47-48	Lt. gray, med. gr. ss.
48-52	Buff to tan, coarse gr. ss.
52-54	Bright brown, coarse gr. ss.
54-55	Tan, coarse gr. ss.
55-60	Lt. gray to buff, coarse gr. ss
60-70	Cobble conglomerate.

T.D. 70'

DRILL HOLE LOG

Hole No. M-17

Date Drilled May 11, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale
0	.02
1-68.6	.01-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-2'	Soil
2-17	Buff to tan siltstone
17-20	Med. gray, fine gr. ss.
20-25	Buff siltstone
25-27	Lt. gray to tan, med. gr. ss.
27-28.5	Lt. gray & brown siltstone.
28.5-36	Lt. gray to buff, coarse gr. congl. ss.
36-38	Lt. greenish gray, fine gr. ss.
38-40	Bright tan, coarse gr. ss.
40-52	Lt. gray to buff, coarse gr. ss
52-53	Tan siltstone.
53-55.5	Lt. gray, coarse gr. ss. 6" dark brown, stain at 55' FeOx & MnO
55.5-63	Blue-gray siltstone with iron & manganese stained pebbles
63-63.5	Tan siltstone.
63.5-70	Light gray to tan, fine gr. ss.

T.D. 70'

DRILL HOLE LOG

Hole No. M-18 Date Drilled May 11, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale
0	.03
1-67.8	.01-.05

SAMPLE DATA

No Samples

LITHOLOGY

0-4'	Lt. brown, coarse gr. congl. ss.
4-12	Coarse gr. ss. 4-8'=Lt. gray 8-10=buff 10-12=brown
12-26	Blue-gray siltstone. 1st 2' duller gray.
26-27	Dull gray siltstone.
27-29	Brown, tan, lt. gray siltstone.
29-32	Fine gr. ss. few inches lt. gray, then greenish
32-54	Lt. gray to buff, coarse gr. ss. Greenish band at 41', tan ss. & gray silt 46' - 47'.
54-55	Tan, coarse gr. ss.
55-58	Med. gray, fine gr. ss.
58-60	Blue gray siltstone.
60-61	Med. gray ss.
61-62	Bright brown, fine gr. ss.
62-68	Lt. gray to buff, med. gr. ss.
68-70	Lt. gray, coarse gr. ss.

T.D. 70'

DRILL HOLE LOG

Hole No. M-101 Date Drilled October 3, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY
Babbel Counter Reading			
Feet	4 Scale		
0 - 73	.00%		0' - 6' Surface
74 - 76	.02	No Samples	6' - 24' Ss., buff, med. gr., some peb. cong.
76.5	.03		24' - 72' Ss., lt. grey, coarse gr.
77'	.02		72' - 84' Mudstone, blue, fine gr., no visible pyrite.
77.5	.04		84' - 104' Ss., white, med. gr.
78	.03		104' - 140' Ss. and alternating thin mudstone seams of grey to blue, fine gr.
79	.02		
80 - 187	.00		
187.5	.01		140' - 172' Ss., white, blue mds. balls
188	.06		172' - 194' Ss., white, coarse gr. wate bearing.
188.5	.14		
189	.17		
189.5	.11		T.D. 200'
190	.06		
190.5	.02		
191 - 208	.00		

Hole No. M-102 Date Drilled October 2, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY
Babbel Counter Reading			
Feet	4 Scale		
0 - 188	.00%	No Samples	0' - 6' Surface
189	.02		6' - 78' Ss., buff, coarse gr., cong. 18' to 24'
189.5	.03		78' - 88' Ss., grey to white, med. gr.
190	.11		88' - 92' Mudstone, blue, fine gr., no visible pyrite.
190.5	.17		
191	.03		92' - 108' Ss., white to grey, med. gr.
192	.01		108' - 114' Siltstone, grey to blue, fi gr.
193	.00		
194-205	.00		114' - 198' Ss., white to grey, coarse
			T.D. 200'

DRILL HOLE LOG

Hole No. M-103

Date Drilled October 2, 1956

PROBE DATA

Babbel Counter

Feet	Reading 4 Scale
0 - 89	.00%
90	.01
91	.02
92	.03
93	.04
94	.03
95	.02
96	.00
97 - 170	.00
171	.01
172	.02
173	.04
173.5	.06
174	.06
174.5	.05
175	.03
176	.02
177	.01
178 - 184.7	.00

SAMPLE DATA

86' - 88'

LITHOLOGY

0' - 4' Surface

4' - 84' Ss., buff, med. to coarse gr.

84' - 86' Mudstone, blue

86' - 92' Ss., grey, med. gr. with blue mds.

92' - 98' Mudstone, blue, no visible pyrite.

98' - 190' Ss., white, med. to coarse gr., water bearing.

190' - 200' Ss., blue mds. balls.

T.D. 200'

DRILL HOLE LOG

Hole No. M-104 Date Drilled October 3, 1956

PROBE DATA Babbel Counter Feet	Reading 4 Scale
0 - 83	.00%
84 - 86	.01
86.5	.02
87	.03
87.5	.04
88	.06
88.5	.06
89	.05
89.5	.03
90	.01
91 - 175	.00
176	.01
177	.02
177.5	.03
178	.05
178.5	.07
179	.16
179.5	.09
180	.07
180.5	.06
181	.02
181 - 194	.00
195	.02
196 - 202.3	.00

SAMPLE DATA

88' - 92'

LITHOLOGY

0' - 4' Surface
4' - 10' Ss., br., coarse gr.
10' - 18' Ss., wh., cong.
18' - 36' Ss., wh. to grey, med. gr
36' - 74' Ss., br., med. to fine gr.
74' - 88' Ss. and mds., br. to buff med. gr.
88' - 92' Mds., blue, fine gr., no visible pyrite.
92' - 124' Ss., wh. to grey, med. gr
124' - 192' Ss., wh., blue mds. bal
192' - 200' Mds., blue, dense, med. gr.

T.D. 200'

DRILL HOLE LOG

Hole No. M-105

Date Drilled October 4, 1956

PROBE DATA

Babbel Counter

Feet	Reading 4 Scale
0 - 194	.00%
195	.02
196	.03
197	.03
198	.02
199	.02
200	.01
201	.04
201.5	.05
202	.09
202.5	.15
203	.28
203.5	.42
204	.37
204.5	.22
205	.14
205.5	.11
206	.05
207	.03
208	.03
209	.02
210	.01
241	.03
249	.02
255	.01
256 - 274.9	.00

SAMPLE DATA

216' - 218'

LITHOLOGY

0' - 6' Surface
6' - 34' Ss., grey to wh., med. g
34' - 38' Siltstone, br., fine gr.
38' - 46' Ss., wh., coarse gr., c
46' - 112' Ss., buff, med. gr.
112' - 124' Ss. and siltstone, gr
124' - 136' Siltstone, blue, med. no visible pyrite.
136' - 212' Ss. and siltstone, bl with blue clay balls.
212' - 216' Ss., med. gr., blue cl layers.
216' - 234' Ss., coarse gr., blue clay mud balls.
234' - 280' Mudstone, blue, dense, some pyrite.

T.D. 280'

DRILL HOLE LOG

Hole No. M-106 — Date Drilled October 5, 1956

PROBE DATA

Babbel Counter

Feet	Reading 4 Scale
0 - 94	.00%
95 - 96	.02
130 - 133	.02
187	.01
188	.02
189	.02
189.5	.03
190	.04
190.5	.03
191	.05
191.5	.09
192	.11
192.5	.06
193	.04
193.5	.04
194	.02
195	.01
196 - 274.8	.00

SAMPLE DATA

No Samples

LITHOLOGY

0' - 18' Ss., br., coarse gr., peb. cong.
18' - 24' Siltstone, buff, fine gr.
24' - 50' Ss., buff, med. gr.
50' - 56' Siltstone, grey to buff, med. gr.
56' - 130' Ss., white to grey, med. gr.
130' - 136' Siltstone, blue, med. gr., no visible pyrite
136' - 194' Ss., grey to white, med. gr., calcite, wat. bearing.
194' - 202' Ss., grey to white, med. gr., calcite, wat. bearing, clay balls.
202' - 216' Ss. and silt, bluish sand and dusky blue cl. pyrite, purple shale cu tings probably contain selenium.
216' - 280' Clay, dusky blue, pyri dense, no porosity or layers.

T.D. 280'

Hole No. M-107 — Date Drilled October 5, 1956

PROBE DATA

Babbel Counter

Feet	Reading 4 Scale
0 - 113	.00%
114 - 117	.01
117 - 200	.00
201	.01
201.5	.02
202	.04
202.5	.05
203	.04
203.5	.03
204	.01
205 - 275.4	.00

SAMPLE DATA

No Samples

LITHOLOGY

0' - 4' Surface
4' - 10' Ss., buff, med. gr.
10' - 78' Ss., grey to buff, med. to coarse gr.
78' - 128' Ss., med. to coarse gr. white to grey.
128' - 218' Ss., white to grey, bl clay mud balls.
218' - 234' Siltstone, sandy blue clay, some pyrite.
234' - 280' Mudstone, blue dense fine gr., no pyrite.

T.D. 280'

DRILL HOLE LOG

Hole No. M-108 Date Drilled October 10, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babbel Counter				
Feet	Reading 4 Scale			
0 - 170.5	.00% - .02%	No Samples	0' - 4'	Surface
			4' - 36'	Ss., br., coarse to med. gr.
			36' - 60'	Ss., buff to grey, arkosic, coarse gr.
			60' - 96'	Ss., br., med. gr., silty.
			96' - 134'	Ss. and siltstone, med gr., with occ. blue cl streaks.
			134' - 208'	Ss., blue to wh., coarse gr., calcite, water bearing.
			208' - 280'	Mudstone, blue, some sand, no visible pyri
			T.D. 280'	

REMARKS: Hole was probed to depth of 170.5 feet where caved. Sample recovery was complete and no samples were higher than .027 MR/HR background count with LaRoe FV-50 Scintillator.

Hole No. M-109 Date Drilled October 9, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babbel Counter				
Feet	Reading 4 Scale			
0 - 206	.00%	222' - 224'	0' - 8'	Surface
207	.01		8' - 18'	Ss., wh. to grey, med. gr.,
208	.02		18' - 32'	Ss., wh. to grey, peb. cong.
209	.03		32' - 90'	Ss., buff and grey, med. to coarse gr.
210 - 213	.00		90' - 94'	Mudstone, blue, no pyri
214	.02		94' - 124'	Siltstone, br. to grey, fine gr.
214.5	.04		124' - 136'	Ss., wh. to grey, coarse gr.
215	.05		136' - 140'	Siltstone, blue, med.
215.5	.07		140' - 220'	Ss., blue to wh., med. gr., water bearing.
216	.22		220' - 280'	Ss., mds., alt., grey to blue.
216.5	.14			
217	.05			
217.5	.04			
218	.02			
219 - 276.8	.00			
			T.D. 280'	

DRILL HOLE LOG

Hole No. M-110

Date Drilled October 7, 1956

PROBE DATA

Babbel Counter

Feet	Reading 4 Scale
0 - 92	.00%
92 - 98	.02
98 - 230	.00
230 - 241	.01
241 - 278.1	.00

SAMPLE DATA

No Samples

LITHOLOGY

0' - 4'	Surface
4' - 18'	Ss., buff to br., coars gr.
18' - 56'	Siltstone, br. to grey, fine gr.
56' - 96'	Ss., wh. to grey, med.
96' - 100'	Mudstone, blue, no pyrite.
100' - 112'	Siltstone, blue, fine gr.
112' - 254'	Ss., wh. to blue, coarse gr., water bearing.
254' - 280'	Ss. with blue clay layers, no pyrite.

T.D. 280'

DRILL HOLE LOG

Hole No. L-1 Date Drilled May 15, 1956

PROBE DATA SAMPLE DATA LITHOLOGY

Babbel Counter Reading

Feet	5 Scale	4 Scale
0	.09	.07
1-5	.09-.10	.08
6-10	.10	.09
11	.10	.09
12-29	.10-.11	.10
30	.10	.11
31-33	.11-.13	.10
33.4	.11	.14
34	.13	
35-39	.12	.10
39-43	.11	.11
44	.12	.10
45	.11	
46	.11	.09
47	.11	.10
48	.12	.09
48.9	.12	.09

0-2'	Soil
2-4	Dull earth brown clay mixed with ss.
4-14	Lt. gray to buff, coarse gr. ss. Well cemented
14-20	Dull, earth brown ss. mixed with clay
20-22	Buff, med. gr. ss.
22-28	Greenish, med. gray, coarse gr. ss.
28-34	Greenish gray siltstone.
34-36	Tan sandy siltstone.
36-37	Lt. gray sandy siltstone.
37-37.5	Blue gray siltstone.
37.5-39.5	Buff to tan sandy siltstone.
39.5-46	Tan silty ss.
46-50	Buff to lt. gray siltstone.

T.D. 50'

DRILL HOLE LOG

Hole No. L-2 Date Drilled May 15, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babbel Counter				
Feet	Reading 5 Scale			
0	.04	No samples	0-2	Soil
1-134	.04-.06		2-12	Buff siltstone & clay-med. grained.
135-137	.07		12-14	Tan to buff-fine grained siltstone.
138-195	.04-.06		14-18	Tan sandstone-very fine grained
195-269	.02-.04		18-24	Buff med. grained ss.
			24-26	White ss.-med. grain.
			26-28	Buff ss.-med. grain.
			28-30	White ss.-med. grain.
			30-34	Buff ss.-med. grain & FeOx.
			34-40	Greenish fine grained ss. Clay in matrix.
			40-54	Greenish siltstone & clay.
			54-58	Gray to green fine grained ss.
			58-62	Lt. gray ss.-very fine grained FeOx.
			62-64	White ss.-med. grained.
			64-70	Buff to tan ss. - some green clay near 70'.
			70-74	Tan ss. - fine grained--FeOx.
			74-76	Tan ss. & green clay.
			76-80	Buff med. grained ss.
			80-86	Gray claystone.
			86-90	White ss. - fine grained.
			90-96	Gray claystone-some FeOx.
			96-104	Gray ss. - med. grained.
			104-114	Blue-gray ss.-very fine grained Some claystone.
			114-120	Blue shaley ss. - V.F.G. Red silt at 120'.
			120-132	Greenish blue siltstone. (124-128 some brownish streaks.
			132-148	Lt. blue ss. - V.F.G.
			148-150	Lt. blue ss. - V.F.G. & clay.
			150-160	Lt. blue ss. - med. grained.
			160-180	White to blue ss-med. to coarse
			180-190	Blue-green claystone.
			190-198	Alternate green shale & white s
			198-200	Blue and red claystone.
			200-270	Green to red clays & white sand alternating.

T.D. 270'

DRILL HOLE LOG

Hole No. L-3 Date Drilled May 12, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale
0	.03
1-47.8	.02-.05

SAMPLE DATA

No Samples

LITHOLOGY

0-1	Soil
1-9.5	Lt. gray pebble congl.
9.5-10.5	Green mudstone
10.5-15	Lt. gray coarse ss. and green mudstone interbedded.
15-16	Tan, coarse gr. ss.
16-27	Lt. greenish gray, coarse gr. ss. Few bands siltstone near bottom.
27-28	Brown siltstone.
28-30	Green & tan siltstone with greenish gray coarse gr. ss.
30-31	Brown siltstone.
31-32	Bright tan, med. gr. ss.
32-34	Med. gray, med. grain ss.
34-40	Lt. gray to buff, med. gr. ss.
40-50	Lt. gray to buff, coarse gr. congl. ss.

T.D. 50'

Hole No. L-4 Date Drilled May 12, 1956

PROBE DATA

Babbel Counter

Feet	Reading 5 Scale
0	.02
1-9	.02-.04
10-13.5	.05-.06
14-48.5	.01-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-2	Soil
2-12.5	Lt. gray to buff pebble cong.
12.5-14.5	Green mudstone
14.5-17.5	Lt. gray, coarse gr. ss.
17.5-18	Bright lt. brown siltstone.
18-20	Lt. gray, coarse gr. ss. and lt. gray and brown siltstone interbedded.
20-22	Lt. gray, med. gr. ss. & lt. gray silt interbedded.
22-24.5	Buff siltstone.
24.5-28	Green, fine gr. silty ss.
28-32	Lt. brown coarse gr. ss.
32-34	Buff, coarse gr. ss.
34-36	Lt. gray fine gr. ss.
36-40	Lt. gray to tan, coarse gr. ss.
40-43.5	Lt. gray siltstone.
43.5-44.5	Dull purplish brown siltstone.
44.5-50	Lt. greenish gray, med. grain s

T.D. 50'

DRILL HOLE LOG

Hole No. L-5 Date Drilled May 12, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babbel Counter			0-3	Soil
	Reading		3-8	Buff to earth brown, med. gr. s
Feet	5 Scale		8-17.5	Lt. gray pebble cong.
0	.02	No Samples	17.5-20	Lt. green-gray silty mudstone.
1-48.1	.01-.04		20-33	Tan siltstone.
			33-34	Lt. gray, fine gr. ss.
			34-48.5	Lt. gray coarse gr. ss.
			48.5-50	Blue gray siltstone.
			T.D. 50'	

Hole No. L-6 Date Drilled May 12, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babbel Counter			0-3	Soil
	Reading		3-12	Lt. gray, coarse gr. congl. ss
Feet	5 Scale		12-16	Lt. greenish gray, fine gr.
0	.02	No Samples	16 20.5	Lt. green sandy siltstone.
1-58.4	.01-.04		20.5-22	Lt. greenish gray, fine gr. ss
			22-46	Lt. gray, coarse gr. ss. conglomeratic in places.
			46-49.5	Lt. gray, fine gr. ss.
			49.5-50	Dull earthy brown, fine gr. ss
			T.D. 50'	

Hole No. L-7 Date Drilled May 12, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babbel Counter			0-1	Soil
	Reading		1-4	Lt. gray, fine gr. ss.
Feet	5 Scale		4-8	Lt. gray to buff, med. gr. ss.
0	.03	No Samples	8-14	Lt. gray to buff, coarse gr. s
1-48.2	.01-.04		14-17	Dull earth brown, coarse gr. s
			17-22.5	Lt. gray-green, coarse gr. ss. Some silty beds.
			22.5-24	Chocolate brown, fine gr. silty ss.
			24-24.5	Red brown, fine gr. ss.
			24.5-32	Lt. greenish, fine gr. ss. Some silt beds.
			32-32.5	Tan siltstone.
			32.5-34	Lt. gray, med. gr. ss.
			34-50	Lt. gray, coarse gr. ss.
			T.D. 50'	

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

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE
1-25	C	220
1/27	[illegible]	800
January 23, 1957		225

224 New Customhouse
Denver 2, Colorado

Memorandum

To: E. N. Harshman - w/enclosure
John F. Shaw - " "

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claims groups), Fremont County, Wyoming

Enclosed is a copy of the Operator's letter of January 15, 1957, with enclosures, which constitutes a request for an amendment to the subject Contract to provide additional work and funds.

Also enclosed is a copy of a letter from this office to Robert Ford, acknowledging receipt of the above material and providing advice as requested.

Please submit a joint memorandum report of your recommendations relative to the Operator's request for additional work estimated to cost $12,711.00.

Original signed by
W. M. TRAVER

W. M. Traver

JWT:prl

cc: Chairman, Op. Comm. (2)
Townsend
Corres. file
Chron.

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

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE
1-25	C	220
1/29	[illegible]	800
		225
January 23, 1957		

224 New Customhouse
Denver 2, Colorado

Mr. Robert Ford
Mining Geologist
Riverton, Wyoming

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh, and Longport
claims groups)
Fremont County, Wyoming

Dear Mr. Ford:

Receipt is acknowledged of your letter of January 15, 1957, with enclosures, which constitutes a request for an amendment to Contract No. Idm-E943, to provide additional funds for the performance of additional work.

You will be further advised as to the Government's action relative to your request for additional work and funds when the matter has been resolved.

In your letter of January 15, you also request to be advised as to whether or not the material submitted is complete enough in detail to comply with the requirements of Article 7(c) of the Contract relative to a final engineering and geologic report. The material submitted cannot be used for the dual purpose of a request for additional funds and work and to serve as a final report pertaining to work completed to date under the Contract. Therefore, it will be necessary for you to submit a separate final engineering and geologic report pertaining to work completed under the Contract. Rendering of the required final engineering and geologic report should be deferred until either your request for additional funds and work is denied or else the proposed additional work has been completed.

Relative to the amount of $[illegible].00 withheld from reimbursement to the Operator in processing Form NF-104, Operator's Monthly Report and Voucher, for the month of October, 1956, the amount must necessarily continue to be withheld until all matters that are a prerequisite to closing the account are resolved, or until work is resumed under the Contract by subsequent authority.

Very truly yours,

Original signed by
W. M. TRAVER

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

cc: Mr. Kirkpatrick Billing
129 North Clark Street
Chicago, Illinois

cc: Mr. John Kagenter
Riverton Uranium Corporation
Riverton, Wyoming

JWT:prl

cc: Chairman, Op. Comm. (2) - w/copy of Operator's letter of January 15 without enclosures.

Harshman
Shaw
Townsend
Corres. file
Chron.

W.D.

ROBERT FORD
Mining Geologist
RIVERTON, WYOMING

206 S. BROADWAY
P.O. Box 428

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE

OFFICE: ULSTER 6-3168
HOME: ULSTER 6-3516

January 15, 1957

DMEA
DEPARTMENT OF THE INTERIOR
JAN 21 1957
REGION III
DENVER, COLORADO

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

Dear Mr. Traver:

Enclosed herewith is the application for amendment to DMEA Exploration Contract Idm-E-243, Charles M. Coleman and Associates.

This application is prefaced by form No. MF-103. This application should be considered as an amendment to the above contract number, as you requested during my recent visit to your office.

Form MF-103 has attached to it Annex I, which gives the legal description of the Marsh and Longport claim groups and the book and page numbers for each recorded location notice thereof.

Following this is a short report including the location and extent of all previous work performed on the property under the DMEA contract together with suitable geologic maps and radiometric logs showing all the work performed to date. There is also a narrative justifying the program and describing the reasons and geological inferences for the proposed exploration program. Also an itemized breakdown of estimated costs of performing the proposed work is included. The drilling costs are supported by the enclosed contract bids.

Please advise me if this report with associated maps and logs is in complete enough detail to comply with Article 7-C of the DMEA contract, as is necessary to have funds already expended refunded by the DMEA on the previous contract work. It was my understanding from Mr. Dilling and through copies of various correspondence between him and your office that several hundred dollars was being withheld pending receipt in your office of a final report summarizing the work to date.

If this report is not in complete enough detail to free these monies, please advise me as to the further information necessary for your office.

Very truly yours,

Robert Ford

Encl.

cc: Kirkpatrick Dilling
129 N. Clark St.
Chicago, Ill.

cc: John Kopuster
Riverton Uranium Corp.
Riverton, Wyo.

DMEA Form 7
(12-56)

4047

OFFICIAL FILE COPY		
Date	Surname	Code
1-8	C	220

JAN 8 1957

Mr. C. S. Breding
DMEA Auditor
224 New Customhouse
Denver 2, Colorado

Dear Mr. Breding:

Reference is made to the November Supporting Schedule for Monthly Report, Strategic and Critical Minerals Exploration Program, for Region III. In checking our records with the listing of payments we find a difference between the amount shown as paid for Vulcan Silver-Lead Corporation, Idm-2984, DMEA-4225 on our copy of the Form MP-104 and that indicated on the supporting schedule. Our copy of Form MP-104 for the month of September shows $10,467.37 paid whereas the Region III supporting schedule indicates the amount of $12,051.73.

Reference is also made to the December Supporting Schedule for Monthly Report, Strategic and Critical Minerals Exploration Program. In this instance our copy of the Form MP-104 applicable to Charles M. Coleman & Associates, Idm-2943, DMEA-4047, for the month of October shows $2,327.00 paid whereas the supporting schedule indicates the amount of $2,003.40.

Will you please look into these two items and advise us regarding the differences.

Sincerely yours,

Jay L. Chambers, Chief
Contract Administration
and Audit Division

AMAlley/ama
January 8, 1957

Copy to: Docket - DMEA-4225
Docket - DMEA-4047
Admr. Reading File
Mr. Chambers

R.G.

8623

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

224 New Customhouse
Denver 2, Colorado

December 17, 1956

RECEIVED
DEC 20 1956
D.M.E.A.

Mr. Albert W. Billing
Attorney in Fact
Charles M. Coleman and Associates
c/o Billing and Billing
Attorneys at Law
139 North Park Street
Chicago 2, Illinois

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh, and Longport Groups)
Fremont County, Wyoming

Dear Mr. Billing:

Reference is made to your letter of December 15, 1956, wherein you discuss proposed additional work and request advice as to the most expeditious way to proceed in obtaining approval for the work.

Preparation of an amendment involving work not provided for in the contract as executed is not within the authority delegated to this office. Therefore, the matter must be forwarded to the Washington Office, DMEA, for their consideration and appropriate action. To obtain the Government's approval for the additional work, you should submit the original and five copies of your request, containing the following material:

1. A geologic and engineering analysis of the results of drilling performed to date, and based thereon the justification for the proposed additional drilling.

2. A map or maps showing the proposed additional work in conjunction with the prior work.

3. A cost analysis of the drilling completed to date, to show the availability of funds presently approved under the contract and the estimated cost of the additional drilling you propose to perform and the extent of additional funds needed, if any.

Inasmuch as you have submitted an analysis of the work completed under Stage I, that part need not be duplicated. However, the work under Stage I should be summarized in conjunction with your analysis of the work completed under Stage II.

In the matter of your preparing and rendering a final report, as outlined under item 1 of our letter to you of December 6, 1956, and mentioned in paragraph 2 of your letter of December 15, the rendering of the report may be deferred pending resolution of the matter of your request for approval of additional work under the contract.

Very truly yours,

Original signed by
W. M. TRAVER

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

JWT:prl

cc: Chairman, Op. Comm. (2)) w/copy of
Harshman) Operator's
Shaw) letter of
Dec. 15

Townsend
Corres. file
Chron.

DILLING AND DILLING
ATTORNEYS AT LAW
139 NORTH CLARK STREET
CHICAGO 2

ALBERT W. DILLING
KIRKPATRICK W. DILLING

TELEPHONE
CENTRAL 6-8417

DMEA
PARTMENT OF THE INTERIOR
DEC 17 1956
REGION III
DENVER, COLORADO

December 15, 1956

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

Re: Docket DMEA 4047 (Uranium)
Contract Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh and Longport groups)
Fremont County, Wyoming

Dear Mr. Traver:

Preoccupation with some emergency matters has prevented me from replying to your letter of December 6th until now.

The final report mentioned in your letter is being prepared at Riverton, Wyoming, and will be submitted to your office as soon as possible.

You will recall that on June 18th we forwarded to you five copies of Project Geologist Ralph H. Thurston's report on Stage I work and proposals for revised further work on the properties involved in the above contract (Mr. Robert Ford has since become project geologist, as you know). On July 25th you wrote advising that "the excesses in Stage II and all drilling requested under Stage III cannot be considered until all of the work possible and desirable to perform under the contract as presently written has been completed".

In accordance with the results of Stage II drilling on the Marsh group property, geologist Ford recommends 560 feet of further drilling. The basis for that recommendation is set forth in his report, of course.

Geologist Ford also recommends further work on the Clyde and Longport group properties. It should be noted that recent exploratory work in the vicinity of both properties, and other factors, make possible a more precise analysis of the situation than heretofore.

Thus, it is our desire to take whatever steps are necessary to proceed further in the exploration of the three properties in question.

Would you be so kind as to advise concerning the most expeditious way to proceed?

We desire to express our appreciation of the courteous and efficient manner in which "DMRA", under your direction, has assisted us in the exploration of the Clyde, Marsh and Longport properties.

Yours very truly,

Albert W. Dilling

Albert W. Dilling

AWD: hs

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

224 New Customhouse
Denver 2, Colorado

December 6, 1956

RECEIVED DEC 10 1956 DMEA

Mr. Albert W. Dilling,
Attorney in Fact
Charles M. Coleman and Associates
c/o Dilling and Dilling,
Attorneys at Law
139 North Park Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium)
Contract Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh and Longport groups)
Fremont County, Wyoming

Dear Mr. Dilling:

Form MF-104, Operator's Monthly Report and Voucher, for October, 1956, has been received in this office and is being processed for payment.

An amount of $400.00 is withheld pending resolution of matters relative to closing the account, which includes the following

1. Rendering to the Government a final report as required under Article 7 (c) of the contract form.

   Your monthly reports for May, 1956 and October, 1956 furnish sufficient detailed information on the work performed, and it is not necessary to duplicate this data. Your final report should summarize the work performed, and also the results and costs of the work.

RECEIVED
DEC 10 1956

2. The release to this office of a Report of Review of contract expenditures by the Contract Administration and Audit Division, DMEA.

Very truly yours,

Original signed by
W. M. TRAVER

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

Copy to:
Robert Ford, Mining Geologist
P. O. Box 428
Riverton, Wyoming

JDC:jy
cc: Corresp. E943
Chm. Op. Comm. (2)
Shaw (2)
Harshman
Townsend
Chron.

October 4, 1956

Memorandum

To: Hazel Berry, Operating Committee

From: Grace L. Ault, Rare and Miscellaneous Metals Division

Subject: Amendment to contract

Mr. Knouse has reviewed and approved Amendment No. 2, dated September 25, 1956, Docket No. DMEA-407, Charles M. Coleman and others, which was executed by the Operator and the Executive Officer, Region III. He has indicated that it requires no further review by the Legal Division.

/s/ Grace L. Ault

GraceL. Ault

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

RECEIVED
OCT - 3 1956

224 New Customhouse
Denver 2, Colorado

October 1, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman and Others (Clyde, Marsh, and Longport Claim Groups), Fremont County, Wyoming

Enclosed are the original and two copies of Amendment No. 2 to Contract No. Idm-E943, which has been executed to extend the date for completion of the project work from October 1, 1956 to October 15, 1956.

Also enclosed are four copies of the Operator's letter of September 22, 1956 requesting the time extension.

The Government's approval for performance of work under Stage II was forwarded to the Operator August 22, 1956, but work was not started until September 24, 1956. Perhaps the Operator's delay in starting the authorized Stage II drilling should be called to the attention of the Congressman whose aid was obtained by the Operator in an effort to expedite the Government's action on the requested approval for Stage II work.

W. M. Traver

W. M. Traver

Enclosures

W. O.

DILLING AND DILLING
ATTORNEYS AT LAW
137 NORTH CLARK STREET
CHICAGO 2

ALBERT W. DILLING
KIRKPATRICK W. DILLING

TELEPHONE
CENTRAL 6-8417

DMEA
DEPARTMENT OF THE INTERIOR
DENVER, COLORADO

September 22, 1956

RECEIVED
SEP 27 1956

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

Re: Contract [illegible]

Dear Mr. Traver:

Confirming my telegram of yesterday, work on Stage II of the above project will commence on Monday, September 24th. I regret that this commencement has been delayed by circumstances beyond my control.

As noted in my telegram, we would appreciate very much having the completion date of the Stage II work extended to and including October 15, in case difficulties, now unforeseen, should develop between now and October 1st, the present completion date.

Yours very truly,

Albert W. Dilling

Albert W. Dilling

AWD: hs

x Read what has transpired since you left 2 wks. ago

Charge to the account of BUREAU OF MINES, DMA, [illegible] New Customhouse $

CLASS OF SERVICE DESIRED			
DOMESTIC		CABLE	
TELEGRAM		ORDINARY	
DAY LETTER		URGENT RATE	
SERIAL		DEFERRED	
NIGHT LETTER		NIGHT LETTER	

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

WESTERN UNION

1206

CHECK
ACCOUNTING INFORMATION
TIME FILED

A. N. WILLIAMS, PRESIDENT
NEWCOMB CARLTON, CHAIRMAN OF THE BOARD
J. C. WILLEVER, FIRST VICE-PRESIDENT

Send the following message, subject to the terms on back hereof, which are hereby agreed to

4047

Denver, Colorado
September 28, 1956

RECEIVED
OCT - 1 1956

Mr. Albert U. Dilling
c/o Dilling & Dilling
100 North Clark Street
Chicago, Illinois

Advise by return telegram if authorized Stage II work under Contract IBr-1989 started September 24 in accordance with your telegram of September 21.

W. M. TRAVER
W. M. Traver
Executive Officer, DMA
Field Team, Region III

WMT:prl
cc: Chairman, Op. Comm. (2)
Harshman
Shaw
Fiscal
Corres. file
Chron.

ALL MESSAGES TAKEN BY THIS COMPANY ARE SUBJECT TO THE FOLLOWING TERMS:

To guard against mistakes or delays, the sender of a message should order it repeated, that is, telegraphed back to the originating office for comparison. For this, one-half the unrepeated message rate is charged in addition. Unless otherwise indicated on its face, this is an unrepeated message and paid for as such, in consideration whereof it is agreed between the sender of the message and this Company as follows:

1. The Company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the unrepeated-message rate beyond the sum of five hundred dollars; nor for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the repeated-message rate beyond the sum of five thousand dollars, unless specially valued; nor in any case for delays arising from unavoidable interruption in the working of its lines.

2. In any event the Company shall not be liable for damages for mistakes or delays in the transmission or delivery, or for the non-delivery, of any message, whether caused by the negligence of its servants or otherwise, beyond the actual loss, not exceeding in any event the sum of five thousand dollars, at which amount the sender of each message represents that the message is valued, unless a greater value is stated in writing by the sender thereof at the time the message is tendered for transmission, and unless the repeated-message rate is paid or agreed to be paid, and an additional charge equal to one-tenth of one per cent of the amount by which such valuation shall exceed five thousand dollars.

3. The Company is hereby made the agent of the sender, without liability, to forward this message over the lines of any other company when necessary to reach its destination.

4. Except as otherwise indicated in connection with the listing of individual places in the filed tariffs of the Company, the amount paid for the transmission of a domestic telegram or an incoming cable or radio message covers its delivery within the following limits: In cities or towns of 5,000 or more inhabitants where the Company has an office which, as shown by the filed tariffs of the Company, is not operated through the agency of a railroad company, within two miles of any open main or branch office of the Company; in cities or towns of 5,000 or more inhabitants where, as shown by the filed tariffs of the Company, the telegraph service is performed through the agency of a railroad company, within one mile of the telegraph office; in cities or towns of less than 5,000 inhabitants in which an office of the Company is located, within one-half mile of the telegraph office. Beyond the limits above specified the Company does not undertake to make delivery, but will endeavor to arrange for delivery as the agent of the sender, with the understanding that the sender authorizes the collection of any additional charge from the addressee and agrees to pay such additional charge if it is not collected from the addressee. There will be no additional charge for deliveries made by telephone within the corporate limits of any city or town in which an office of the Company is located.

5. No responsibility attaches to this Company concerning messages until the same are accepted at one of its transmitting offices; and if a message is sent to such office by one of the Company's messengers, he acts for that purpose as the agent of the sender.

6. The Company will not be liable for damages or statutory penalties in the case of any message except an intrastate message in Texas where the claim is not presented in writing to the Company within sixty days after the message is filed with the Company for transmission, and in the case of an intrastate message in Texas the Company will not be liable for damages or statutory penalties where the claim is not presented in writing to the Company within ninety-five days after the cause of action, if any, shall have accrued; provided, however, that neither of these conditions shall apply to claims for damages or overcharges within the purview of Section 415 of the Communications Act of 1934.

7. It is agreed that in any action by the Company to recover the tolls for any message or messages the prompt and correct transmission and delivery thereof shall be presumed, subject to rebuttal by competent evidence.

8. Special terms governing the transmission of messages according to their classes, as enumerated below, shall apply to messages in each of such respective classes in addition to all the foregoing terms.

9. No employee of the Company is authorized to vary the foregoing.

10-42

CLASSES OF SERVICE

DOMESTIC SERVICES

TELEGRAMS

A full-rate expedited service.

DAY LETTERS

A deferred service at lower than the standard telegram rates.

SERIALS

Messages sent in sections during the same day.

NIGHT LETTERS

Accepted up to 2 A.M. for delivery not earlier than the following morning at rates substantially lower than the standard telegram or day letter rates.

CABLE SERVICES

ORDINARIES

The standard service, at full rates. Code messages, consisting of 5-letter groups only, at a lower rate.

DEFERREDS

Plain-language messages, subject to being deferred in favor of full-rate messages.

NIGHT LETTERS

Overnight plain-language messages.

URGENTS

Messages taking precedence over all other messages except government messages.

WESTERN UNION TELEGRAM

RECEIVED
OCT - 1 1956

CHICAGO, ILLINOIS

W. M. TRAVER

1956 September 28 PM 3:27

224 NEW CUSTOMHOUSE DENVER

ANSWERING YOUR TELEGRAM WORK STARTED SEPTEMBER 24TH

LETTER IN MAIL

ALBERT W. DILLING

COPY

Copies to:

Chairman, Op. Comm. (2)
Shaw
Harshman
Townsend

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

RECEIVED
OCT - 1 1956

224 New Customhouse
Denver 2, Colorado

September 26, 1956

Mr. Albert W. Dilling
Attorney at Law
c/o Dilling and Dilling
139 North Clark Street
Chicago 2, Illinois

Re: Docket No. DMEA 4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Others
(Clyde, Marsh, and Longport
Claims Group),
Fremont County, Wyoming

Dear Mr. Dilling:

Enclosed are the original and five copies of proposed Amendment No. 2 to Contract No. Idm-E943, which we have prepared pursuant to your request of September 22, 1956 to extend the date fixed for completion of the project work from October 1, 1956 to October 15, 1956.

Under the provisions of the Contract, it is the Operator's obligation to pursue the work in such a manner as to bring it to completion by the date fixed therefor. Therefore, every effort should be made to complete the work by the date fixed by the proposed Amendment No. 2.

If the Amendment is satisfactory, all copies are to be signed by you as indicated and all copies promptly returned to this office. After signature by the Executive Officer, DMEA Field Team, Region III, for the Government, your copy of the Amendment will be returned to you.

Very truly yours,

W. M. TRAVER

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

JWT:prl
cc: Chairman, Op. Comm. (2)
Harshman
Shaw
Townsend
Corres. file
Chron.

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

RECEIVED
SEP 27 1956

224 New Customhouse
Denver 2, Colorado

September 25, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4047 (Uranium), Contract No. Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport Claims Group), Fremont County, Wyoming

In conjunction with the matter discussed in your telegram of September 21, 1956, we are enclosing two copies of the Operator's letter of September 22, 1956.

We will prepare the requested Amendment to extend the date fixed for completion of the work from October 1, 1956, to October 15, 1956.

W. M. Traver

W. M. Traver

Enclosures

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

RECEIVED
SEP 24 1956

224 New Customhouse
Denver 2, Colorado

September 21, 1956

Memorandum

To: Chairman of the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-4047 (Uranium) Contract Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh and Longport claims group), Fremont County, Wyoming

In response to your telegram of today regarding the commencement of Stage II work on the subject contract, we are enclosing herewith two copies of our telegram of even date addressed to the Operator and two copies of his reply.

W. M. Traver

W. M. Traver

Enclosures

Charge to the account of U. S. Bureau of Mines, Defense Minerals Exp. Admn. $

CLASS OF SERVICE DESIRED			
DOMESTIC		CABLE	
TELEGRAM		ORDINARY	
DAY LETTER		URGENT RATE	
SERIAL		DEFERRED	
NIGHT LETTER		NIGHT LETTER	

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

WESTERN UNION

1206

A. N. WILLIAMS, PRESIDENT
NEWCOMB CARLTON, CHAIRMAN OF THE BOARD
J. C. WILLEVER, FIRST VICE-PRESIDENT

CHECK

ACCOUNTING INFORMATION

TIME FILED

Send the following message, subject to the terms on back hereof, which are hereby agreed to

Denver, Colorado
September 21, 1956

RECEIVED
SEP 24 1956

Mr. Albert W. Dilling
c/o Dilling and Dilling
138 North Clark Street
Chicago, Illinois

Please advise by return telegram when work will start under Stage II of Contract Idm-E945 as authorized by our letter of August 22.

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

WMT:prl
cc: Chairman, Op. Comm. (2)
Harshman
Shaw
Townsend
Fiscal
Corres.
Chron.

ALL MESSAGES TAKEN BY THIS COMPANY ARE SUBJECT TO THE FOLLOWING TERMS:

To guard against mistakes or delays, the sender of a message should order it repeated, that is, telegraphed back to the originating office for comparison. For this, one-half the unrepeated message rate is charged in addition. Unless otherwise indicated on its face, this is an unrepeated message and paid for as such, in consideration whereof it is agreed between the sender of the message and this Company as follows:

1. The Company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the unrepeated-message rate beyond the sum of five hundred dollars; nor for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the repeated-message rate beyond the sum of five thousand dollars, unless specially valued; nor in any case for delays arising from unavoidable interruption in the working of its lines.

2. In any event the Company shall not be liable for damages for mistakes or delays in the transmission or delivery, or for the non-delivery, of any message, whether caused by the negligence of its servants or otherwise, beyond the actual loss, not exceeding in any event the sum of five thousand dollars, at which amount the sender of each message represents that the message is valued, unless a greater value is stated in writing by the sender thereof at the time the message is tendered for transmission, and unless the repeated-message rate is paid or agreed to be paid, and an additional charge equal to one-tenth of one per cent of the amount by which such valuation shall exceed five thousand dollars.

3. The Company is hereby made the agent of the sender, without liability, to forward this message over the lines of any other company when necessary to reach its destination.

4. Except as otherwise indicated in connection with the listing of individual places in the filed tariffs of the Company, the amount paid for the transmission of a domestic telegram or an incoming cable or radio message covers its delivery within the following limits: In cities or towns of 5,000 or more inhabitants where the Company has an office which, as shown by the filed tariffs of the Company, is not operated through the agency of a railroad company, within two miles of any open main or branch office of the Company; in cities or towns of 5,000 or more inhabitants where, as shown by the filed tariffs of the Company, the telegraph service is performed through the agency of a railroad company, within one mile of the telegraph office; in cities or towns of less than 5,000 inhabitants in which an office of the Company is located, within one-half mile of the telegraph office. Beyond the limits above specified the Company does not undertake to make delivery, but will endeavor to arrange for delivery as the agent of the sender, with the understanding that the sender authorizes the collection of any additional charge from the addressee and agrees to pay such additional charge if it is not collected from the addressee. There will be no additional charge for deliveries made by telephone within the corporate limits of any city or town in which an office of the Company is located.

5. No responsibility attaches to this Company concerning messages until the same are accepted at one of its transmitting offices; and if a message is sent to such office by one of the Company's messengers, he acts for that purpose as the agent of the sender.

6. The Company will not be liable for damages or statutory penalties in the case of any message except an intrastate message in Texas where the claim is not presented in writing to the Company within sixty days after the message is filed with the Company for transmission, and in the case of an intrastate message in Texas the Company will not be liable for damages or statutory penalties where the claim is not presented in writing to the Company within ninety-five days after the cause of action, if any, shall have accrued; provided, however, that neither of these conditions shall apply to claims for damages or overcharges within the purview of Section 415 of the Communications Act of 1934.

7. It is agreed that in any action by the Company to recover the tolls for any message or messages the prompt and correct transmission and delivery thereof shall be presumed, subject to rebuttal by competent evidence.

8. Special terms governing the transmission of messages according to their classes, as enumerated below, shall apply to messages in each of such respective classes in addition to all the foregoing terms.

9. No employee of the Company is authorized to vary the foregoing.

10-42

CLASSES OF SERVICE

DOMESTIC SERVICES

TELEGRAMS

A full-rate expedited service.

DAY LETTERS

A deferred service at lower than the standard telegram rates.

SERIALS

Messages sent in sections during the same day.

NIGHT LETTERS

Accepted up to 2 A.M. for delivery not earlier than the following morning at rates substantially lower than the standard telegram or day letter rates.

CABLE SERVICES

ORDINARIES

The standard service, at full rates. Code messages, consisting of 5-letter groups only, at a lower rate.

DEFERREDS

Plain-language messages, subject to being deferred in favor of full-rate messages.

NIGHT LETTERS

Overnight plain-language messages.

URGENTS

Messages taking precedence over all other messages except government messages.

COPY

RECEIVED
SEP 24 1956

TELEGRAM

Sept. 21, 1956

To: W. M. Traver, 224 New Customhouse, Denver

Work commencing Contract Idm-E943 Monday September 24th Request extension of completion date to October 15th Letter follows.

Albert W. Dilling

Copies to:

Harshman
Shaw (2)
Chairman, Op. Comm. (2)
Townsend

Surname copy

Department of the Interior

DMEA

FIKnouse

14X4401(01) Revolving Fund,
Defense Production Act, Interior (Allocate
Working Fund to the Office of the Secy.)

Ellis
Selfridge
Johnson
McKendry

T E L E T Y P E

W. M. TRAVER, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

SEP 2 1 1956

REURMEMO SEPTEMBER 18 DMEA-4047 CHARLES W. COLEMAN, IF OPERATOR WAS NOT CONTACTED CONCERNING DATE STAGE II WORK WILL BE STARTED, PLEASE DO SO AND ADVISE OPERATOR'S PLANS.

George C. Selfridge

CHAIRMAN, OPERATING COMMITTEE (GCS)

FIKnouse/gla
9-21-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, 3643
THKiilsgaard, 5224
JOHosted, 3210m GSA
Code 700
Mr. Knouse
Confirmation to Region III

R.C.S.

4047

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT
Date 9-21

Referred to:

1. ~~Mr. Missendorf~~
2. ~~Mr. Swanson~~
3. ~~Mr. Chambers~~
4. ~~Docket Control Mails and Files~~
5. ~~Rule Making Division~~
6. Docket Control Mails and Files

JC

Note comments in report regarding:

1. When did we approve Stage II? Wonder if
2. F.T. sent inquiry letter to applicant if some
3. months have elapsed. Perhaps a case we
4. should follow up

and take appropriate action.

Amend No. 1 dated 8/10/56, recd in Wash 8/24/56. Need for follow-up not indicated.

Action taken by Division:

Sent to F.T. 9-21-56 Talbert
also F.T. reply - memo. dated 9-21-56
with operations reply.
JK

Robert E. Adams

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

RECEIVED
SEP 21 1956

224 New Customhouse
Denver 2, Colorado

September 18, 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4047 (Uranium) Contract Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh and Longport groups) Fremont County, Wyoming - Status of Project

Enclosed are four copies of a memorandum dated September 7, 1956 from E. O. Binyon, Mining Engineer, relative to the status of the above contract as of September 12, 1956.

W. M. Traver

W. M. Traver

Enclosures

DMEA
DEPARTMENT OF THE INTERIOR

SEP 17 1956
REGION III
DENVER, COLORADO

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
September 17, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: E. O. Binyon

Docket DMEA 4047 (Uranium) Contract Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claims group) Fremont County, Wyoming

A visit was made to the Clyde, Marsh and Longport groups of claims on the morning of September 12, 1956 with Mr. John Kopuster, the Company's representative, at Riverton, Wyoming.

No work, either under the contract or by the Company, was in progress and the project has been inactive since the completion of Stage I drilling and trenching on May 28, 1956.

As of the date the property was visited, Mr. Kopuster apparently had not been advised by the company of the approval of the Stage II drilling outlined in Amendment No. 1 and had no information as to when Stage II drilling might be started. when?

On September 13, Ralph H. Thurston, who was formerly consulting geologist for the company, was contacted in Lander and also apparently had no information as to the approval of Stage II drilling and did not know when the drilling would be started.

E. O. Binyon
Mining Engineer

EOB/mw
cc: 9
Idm-E943
Chron

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

RECEIVED
SEP 14 1956

224 New Customhouse
Denver 2, Colorado

September 11, 1956

Mr. Albert W. Dilling
c/o Dilling and Dilling
Attorneys at Law
138 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium)
Contract Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh, and Longport Group
of Claims), Fremont County, Wyoming

Dear Mr. Dilling:

Consistent with the provisions of Contract Idm-E943, this constitutes the Government's approval of Mr. Robert B. Ford, consulting geologist of Riverton, Wyoming, to act as Supervising Geologist and direct operations under Contract Idm-E943.

Very truly yours,

W. M. Traver

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

WMT:prl

cc: Chairman, Op. Comm. (2))
Finance Office, Reg.III) w/copy of Operator's letter
Harshman)
Shaw)
Townsend)
Amendment file
Corres. file
Chron.

DILLING and DILLING
Attorneys at Law
139 North Clark Street
CHICAGO 2

COPY

September 7, 1956

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

Re: Docket DMEA 4047 (Uranium)
Contract Idm-E943

Dear Mr. Traver:

Your letter of August 22nd was received, and, as we were advised, the Stage II work in connection with the above matter can now proceed.

You will recall that on May 7, 1956, per your letter of that date, Mr. Ralph H. Thurston, Lander, Wyoming, was approved to act as supervising geologist in connection with the above project.

At the moment Mr. Thurston is engaged almost full time on another exploration project, and it is likely that he will be so occupied for some time. For this and other compelling reasons, it is our desire to secure DMEA approval of another geologist, Mr. Robert Ford, Riverton, Wyoming, to supervise the Stage II program.

Mr. Ford received training at and is a graduate of the University of Wisconsin, and has been active as a consulting geologist in the Riverton, Wyoming, area (and other uranium areas, also) since April, 1955. He has done work for operators in the area such as McAlester Fuel Co., Utah Construction Co., Western Pacific Petroleum, Ltd., Saturn Oil Co., Northwest Mining Co., and others. For example, he supervised exploratory work which blocked out the present ore body of Aljob Mining Co., one of the producing uranium mining concerns in the Gas Hills area. He also supervised an exploratory program for a subsidiary of Ventures, Ltd. (Canada) on the property immediately adjacent, on the North and West, to the Marsh group property on which all of the Stage II work on our project is to be performed. Ford is well-thought of in the Riverton area

RECEIVED SEP 14 1956

as a very competent and thorough consulting geologist.

Robert Ford has been the author of certain works which have been published in geological publications. For example, you will find enclosed two of his works, "Occurrence and Origin of the Graphite Deposits Near Dillon, Montana", published in the January-February, 1954, issue of "Economic Geology", and "Mineralogy of a Urananite-Bearing Pegmatite, Lac La Ronge, Saskatchewan", published in the March-April, 1955, issue of "Economic Geology."

I would greatly appreciate your advice as to whether Mr. Ford will be approved as an alternate supervising geologist for the work in question.

Yours very truly,

/S/ Albert W. Dilling

AWD:hs

Albert W. Dilling

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

224 New Customhouse
Denver 2, Colorado

August 22, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4047 (Uranium), Contract Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claim groups), Fremont County, Wyoming

Enclosed are the Government's, Division, and Docket copies of Amendment No. 1 to Contract Idm-E943, which were forwarded by your letter of August 13, 1956 for signature by the Operator.

Also enclosed are two copies of a letter from this office, dated August 22, 1956 whereby the "Operator's Copy" of the Amendment was forwarded and Field Team approval given for performance of the work outlined in the Amendment for Stage II.

W. M. Traver

W. M. Traver

Enclosures

RECEIVED
AUG 24

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

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

August 22, 1956

Mr. Albert W. Dilling, Agent
Charles M. Coleman and Associates
c/o Dilling and Dilling
Attorneys at Law
139 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium)
Contract Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh, and Longport
claim Groups)
Fremont County, Wyoming

Dear Mr. Dilling:

Enclosed is the "Operator's Copy" of Amendment No. 1 to Contract Idm-E943, which modifies the description of work to be performed under Stage II of the contract.

Consistent with provisions in the contract relative to Stage II work, this constitutes the Government's approval for you to perform the drilling under Stage II as outlined in Amendment No. 1 at the locations shown on the map attached thereto.

Very truly yours,

DMEA Field Team, Region III

By W. M. Traver
W. M. Traver
Executive Officer

Enclosure

JWT:prl
cc: Chairman, Oper. Comm. (2)
Finance Office, Reg. III
Amendment file, Reg. III
Harshman
Shaw (2)
Townsend
Corres. file
Chron.

W. M. TRAVER

RECEIVED
AUG 24 1956

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

224 New Customhouse
Denver 2, Colorado

AIR MAIL

August 16, 1956

Mr. Albert W. Dilling, Agent
Charles M. Coleman and Associates
c/o Dilling and Dilling, Attorneys at Law
139 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium)
Contract Idm-E943
Charles M. Coleman and Associates
Clyde, Marsh, and Longport claim group
Fremont County, Wyoming

Dear Mr. Dilling:

Consistent with advice to you in our letter of July 25, 1956, enclosed are the Government's, Division, Docket, Finance Office, and Field Team copies of Proposed Amendment No. 1 to Contract Idm-E943, which was prepared in the Washington Office and has been signed by the Administrator, DMEA, for the Government to modify the description of work to be performed under Stage II of the contract.

If the Amendment is satisfactory, all copies are to be signed by you as indicated, and all copies promptly returned to this office. Upon receipt of the properly executed copies of the Amendment, the Operator's copy will be forwarded to you, together with DMEA Field Team, Region III, approval for the performance of the work outlined.

Very truly yours,

W. M. TRAVER

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

RECEIVED
AUG 20 1956

Enclosures
JWT:jy
cc: Chair. Op. Comm. (2)
Harshman
Shaw (2)
Townsend
Corresp. E943 Chron.

AUG 8 7 47 AM '56
BUREAU OF MINES
MAIL ROOM
WASHINGTON D. C.

8/17/56

DMEA
Date Rec'd

AUG 14 1956

BUREAU OF MINES
Denver, Colorado

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
August 14, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw WSK for JFS
Supervising Mining Engineer

From: Charles R. Garrett, Jr.

Subject: DMEA 4047 (Uranium) Contract I4m-E943, Charles M. Coleman and Associates, Fremont County, Wyoming -- Progress report for June and July 1956

There was no exploration work performed on this property under Contract I4m-E943 during June or July 1956. No official inspection was made on the property but the fact that no further exploration work had been performed since May 28, 1956 on which date stage I had been completed was confirmed by personal interview with the company's Riverton representative, John Kopuster.

Charles R. Garrett Jr
Charles R. Garrett, Jr.
Mining Engineer

CRG/mw
cc: 6
I4m-E943
Chron

RECEIVED
AUG 17 1956

Washington

Mr. George Selfridge

RECEIVED
AUG - 8 1956

BU R MINES DN235 8-7-56 1-03 PM

CHAIRMAN,90/ OPERATING COMMITTEE, DMEA

REURTTS OF JULY 24 AND JULY 27,1956, DOCKET DMEA 4047, CONTRACT IDM-E943, CHARLES M. COLEMAN AND ASSOCIATES. WHEN CAN WE EXPECT TO RECIEVEXXX RECEIVE THE PROPOSED AMENDMENT /Q/

W M TRAVER

Denver, Colo.

AUG 8 7 47 AM '56
BUREAU OF MINES
MAIL ROOM
WASHINGTON D. C.

Docket - surname copy

DEPARTMENT OF THE INTERIOR

DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25

Liquidation (Oil) Revolving Fund, Defense Production Act, Interior (Allocated Working Fund to the Office of the Secy.)

TELETYPE

Knapp (EWE)
Ellis
Chandler
Nelson
Lamb
Martin
Fergusson
Mittendorf

AUG 13 1956

W. M. TRAVER, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
224 NEW CUST HOUSE BUILDING
DENVER 2, COLORADO

REURTT AUGUST 7 DOCKET DMEA-4047, CONTRACT IDM-2943, CHARLES M. COLEMAN AND ASSOCIATES, AMENDMENT NO. 1 MAILED TO YOU TODAY.

W. S. Martin
ACTING CHAIRMAN, OPERATING COMMITTEE

EWEllis/gla
8-8-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Knouse
Confirmation to Region III

R.C.S.

Surname copy

700

Knowse (Ext)
Ellis
Chambers
Martin
Johnson
McAtee

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

AUG 13 1956

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

Re: Docket No. DMEA-4047 (Uranium)
Contract No. Idm-8943
Charles M. Coleman and Associates
Clyde, Marsh, and Longport
Groups of Claims
Fremont County, Wyoming

Dear Mr. Traver:

Enclosed are the original and five copies of a proposed Amendment No. 1 to the subject contract, signed by the Administrator.

The amendment, consisting of two pages, with map entitled "Marsh Group, Secs 32 & 33, T33N. R90W," has been prepared in accordance with your memorandum of July 16, 1956, your teletype, dated July 26, and our reply teletype of July 27.

If the terms and conditions of the proposed amendment meet with your approval and the Operator's, the amendment should be dated and signed by the Operator, and the copies distributed in the usual manner.

In the event that any part of the proposed amendment does not meet with your approval or the Operator's and cannot be amended within your delegated authority, the original and all copies are to be returned with the proposed changes for consideration.

Two extra copies of the proposed amendment, with copies of the map attached, are also enclosed for the use of the Field Team.

Sincerely yours,

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

Enclosures

APPROVED:

FRANK D. LAMB (WB)
Member, Bureau of Mines

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

EWEllis/gla 8-8-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Code 700
Mr. Knouse

Messrs. JECrawford, Rm. 3641
THKillsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

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

RECEIVED
AUG 13 1956

224 New Customhouse
Denver 2, Colorado

August 8, 1956

Mr. Albert W. Dilling, Attorney in Fact
Charles M. Coleman and Associates
c/o Dilling and Dilling, Attorneys at Law
139 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium)
Contract Idm-E943
Clyde, Marsh and Longport groups
of claims
Fremont County, Wyoming

Dear Mr. Dilling:

Enclosed for your information is a sample Form MF-104A, Operator's Unit Cost and Progress Report, which has been prepared in this office to show the preferred method of completing the forms.

Costs for each stage of work must be entered separately on Form MF-104A, which will necessitate the use of two sets of this form in each monthly report submitted after Stage II work is undertaken, if additional work is approved by the Government. In other words, Stage I costs must be carried forward each month even though Stage I work has been completed previously.

Costs for Stages I and II are to be combined on Form MF-104, Operator's Monthly Report and Voucher.

Very truly yours,

W. M. TRAVER

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

Enclosure
JDC:jy
cc: MF-104 E943 w/copy of
Corresp. E943 sample form
Sec. Op. Comm. (2) " " "
Shaw (2) " " "
Townsend " " "
Chron.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

SAMPLE

OPERATOR'S UNIT COST AND PROGRESS REPORT

(Stage I)
(completed)

RECEIVED
AUG 13 1956

Through
Month of May 195[illegible] Docket No. DMEA 4057 Contract No. Idm-[illegible]943
Operator's Name Charles M. Coleman and Associates Minerals Uranium
Address 139 N. Clark Street, Chicago 2, Illinois

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
Stage I								
Building	Hr.			775.00	62	12.50	92	13.00
Drilling	ft.			1372.00	1960	0.70	1960	1.00
Supervy. Geologist	Mo.			600.00	1	600.00	1	600.00
Sampler	Hr.			392.00			✓T	1.75/hr.+over-time
Sample Containers	Lot			3.00	Lot	3.00	Lot	3.00
Truck Rental	Mi.			70.00	700	0.10	700	0.10
Churn								
Radiometric logging	ft.			196.00	1960	0.10	1960	0.10
Payroll taxes & ins.				0.00	0	0.00	5% of Payroll	
Accounting	Job			42.00	Job	42.00	1	42.00
Analysis	Spl.			84.00	24	3.50	100	5.00
Roads and Trails								
Total Distributed Costs				3534.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs								

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.

(Execute)

Date ..... Operator .....

Per ..... Title .....

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.

Remarks: ✓T 1.75 per hr.+ time and one half rate over 40 hrs. per week (292.00 maximum for Stage I)

(Instructions on reverse)

(For Government use only)

One set (original and four copies) of Forms MF-104A for Stage I costs is to be submitted with each monthly report even though Stage I has been completed.

A separate set of Forms MF-104A for Stage II costs is to be submitted with each monthly report.

Stage I and Stage II costs are to be combined on Form MF-104, Operator's Monthly Report and Voucher.

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

Surname copy

700

FLKnouse
Yoga
Wilson
Selfridge
FLJohnson

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

JUL 27 1956

Hon. Everett McKinley Dirksen
United States Senate
Washington 25, D. C.

Re: Docket No. DMEA-4047 (Uranium)
Contract No. Ida-E943
Charles M. Coleman and Associates
Clyde, Marsh, and Longport
Groups of Claims
Fremont County, Wyoming

My dear Senator Dirksen:

Reference is made to your letter, dated July 23, 1956, to Mr. W. M. Traver, Executive Officer, Region III, U. S. Custom House, Denver, Colorado, relating to the subject exploration contract, which has been referred to Washington for attention.

Mr. Traver has today been advised by teletype in regard to the matter under consideration as follows:

> REURTT JULY 26 DMEA-4047 CHARLES M. COLEMAN AND ASSOCIATES, YOU MAY AUTHORIZE OPERATOR TO DRILL THE TEN HOLES AT LOCATIONS AND TO THE APPROXIMATE DEPTHS SHOWN ON MAP TRANSMITTED WITH UNWENG JULY 16, SUBJECT, HOWEVER, TO OPERATOR SIGNING AMENDMENT, NOW BEING PREPARED HERE, AUTHORIZING DRILLING. THE COST OF SAID WORK SHALL NOT EXCEED THE COSTS SET FORTH UNDER STAGE II OF THE CONTRACT.

I hope this information will serve to answer your inquiry.

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse/gla
7-27-56
cc to: Admr.'s Reading File
~~OperatingCommittee~~
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JCHosted, Rm. 3210, GSA
Code 700
Mr. Knouse
DMEA Field Team, Region III (2)

Surname copy

Department of the Interior

DMEA

14X1A01(G1) Revolving Fund, Defense Production Act, Interior (Allocat Working Fund to the Office of the Secy.)

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

TELETYPE:

W. M. TRAVER, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
[redacted]
DENVER 2, COLORADO

JUL 27 1956

REQUEST JULY 26 DMEA-624.7 CHARLES M. COLEMAN AND ASSOCIATES, YOU MAY AUTHORIZE OPERATOR TO DRILL THE TEN HOLES AT LOCATIONS AND TO THE APPROXIMATE DEPTHS SHOWN ON MAP TRANSMITTED WITH UNWIRE JULY 16, SUBJECT, HOWEVER, TO OPERATOR SIGNING AMENDMENT, NOW BEING PREPARED HERE, AUTHORIZING DRILLING. THE COST OF SAID WORK SHALL NOT EXCEED THE COSTS SET FORTH UNDER STAGE II OF THE CONTRACT.

George C. Selfridge (by ey)
CHAIRMAN, OPERATING COMMITTEE

FLKnouse/gla
7-27-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Knouse
Confirmation - Field Team, Region III

AXXXXXXX-047K

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YWA047 WAF DN 6 I BOM

DENVER COLO 7-26-56 921A

CHAIRMAN

OPERATING COMMITTEE DMEA INTERIOR BLDG WA

ATTN: ADMINISTRATOR

RE DMEA-4047 CONTRACT IDM-E943. WE QUOTE THE FOLLOWING LETTER FROM EVERETT MCKINLEY DIRKSEN, U.S. SENATE, DATED 7/23/56. "MR. CHARLES M. COLEMAN AND ASSOCIATES HABE BROUGHT TO MY ATTEMTION THE GOLOIGIST'S RECOMMENDATION THAT IS NOW PENDING BEFORE YOU" STOP. COULD YOU ADVISE ME WHEN THIS RECOMMENDATION WILL BE COMPLETED AND REPORT IS MADE TO MR. COLEMAN AND HIS ASSOCIATES" STOP. SINCERELY YOURS,

ACCORDING TO YOUR TELETYPE OF JULY 24 YOU ARE PREPARING AN AMENDMENT AS RECOMMENDED. OUR LETTER TO MR. DILLING WITH COPY TO YOU WERE BOTH AIRMAILED TODAY AND YOU SHOULD HAVE YOUR COPY JULY 26. DO YOU AUTHORIZE US TO GIVE VERBAL AUTHORITY TO PERFORM WORK AS OUTLINED IN OUR MEMORANDUM OF JULY 16, AND SHOWN ON MAP ATTACHED THERETO.

PLEASE TELETYPE YOUR DECISION. ALSO REPLY TO DIRKSEN'S LETTER

W M TRAVER

4047 IDM-E943 7/23/56 24 26 16

EBS 1036

RECEIVED
JUL 26 1956

JUL 26 2 38 PM '56
BUREAU OF MINES
ROOM
WASHINGTON, D. C.

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

RECEIVED
JUL 27 1956

224 New Customhouse
Denver 2, Colorado

July 25, 1956

Memorandum

To: Chairman of the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-4047 (Uranium) Contract Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh and Longport claim group) Fremont County, Wyoming

Enclosed are copies of a letter from Honorable Everett McKinley Dirksen, United States Senate, referred to and quoted in our teletype to you of today.

W. M. Traver

W. M. Traver

Enclosures

EVERETT McKINLEY DIRKSEN
ILLINOIS

United States Senate

WASHINGTON, D. C.

DMEA JUL 27 1956
Date Rec'd

JUL 25 1956

BUREAU OF MINES
Denver, Colorado

July 23, 1956

Mr. W. M. Traver
Executive Officer, Region III
U. S. Custom House
Denver, Colorado

Dear Mr. Traver:

Mr. Charles M. Coleman and Associates have brought to my attention the geologist's recommendation that is now pending before you.

Could you advise me when this recommendation will be completed and report is made to Mr. Coleman and his associates.

Sincerely yours,

Everett McKinley Dirksen

Everett McKinley Dirksen

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

RECEIVED
JUL 27 1956

224 New Customhouse
Denver 2, Colorado

July 25, 1956

Mr. Albert W. Dilling, Agent
Charles M. Coleman and Associates
c/o Dilling and Dilling
Attorneys at Law
139 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium)
Contract Idm-E943
Charles M. Coleman and Associates
(Clyde, Marsh and Longport Claim
Group), Fremont County, Wyoming

Dear Mr. Dilling:

Reference is made to your letter of June 18, 1954, forwarding an analysis of the results of the drilling completed under Stage I and request for the Government's approval for certain additional drilling under Stages II and III.

The contract does not provide for a Stage III and the drilling requested under Stage II exceeds contract provisions. Therefore the excesses in Stage II and all drilling requested under Stage III cannot be considered until all of the work possible and desirable to perform under the contract as presently written has been completed.

In reference to the Marsh group of claims, an amendment to the contract will be prepared eliminating the depth restriction pertaining to Stage II drilling to permit drilling to a maximum depth of 280 feet.

After the amendment has been executed by the parties concerned, the DMEA Field Team, Region III, will issue a work approval to permit offsetting Hole M-3 with four holes drilled to a depth of 200 feet and approve the drilling of six additional

holes to a maximum depth of 200 feet on the Marsh Nos. 1 and 2 claims, deleting the two extreme easterly and westerly holes opposite Hole M-3 as shown on the map of the Marsh group attached to the data submitted by you.

This advice is not to be construed as the Government's approval for performance of the work tentatively outlined, but only to give you the advance information and obtain either your concurrence or objection, which we will appreciate receiving by return mail.

If the work tentatively outlined for Stage II is completed, then you may resubmit your request for the additional drilling and funds involved, as you then deem warranted based on results of all of the work completed under the contract as presently written.

Very truly yours,

W. M. TRAVER

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

JWT:prl

cc: Chairman, Oper. Comm. (2)
Harshman
Shaw (2)
Townsend
Corres. file
Chron.

DEPARTMENT OF THE INTERIOR

DMEA

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

14X4401(01) Revolving Fund, Defense Production Act, Interior (Allocated Working Fund to the Office of the Secy.)

FILE COPY
Surname:

T E L E T Y P E

JUL 24 1956

W. M. TRAVER, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REURMEMO JULY 16, DMEA 4047 CHARLES M. COLEMAN AND ASSOCIATES.

AM AMENDMENT WILL BE FORWARDED FOR THE DRILLING RECOMMENDED.

George C. Selfridge
(esf)

CHAIRMAN, OPERATING COMMITTEE

FLKnouse/gla/izm (7-18-56) 7-24-56
cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File
Operating Committee
Confirmation to DMEA Field Team, Reg. III
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.C.S.

Surname copy

DEPARTMENT OF THE INTERIOR

DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25

14X1401(G1) REVOLVING FUND, DEFENSE PRODUCTION ACT, INTERIOR (ALLOCATED WORKING FUND TO THE OFFICE OF THE SECT.)

F.L. Knouse
Ellis
Paone
Keiser
Nelson

TELETYPE

W. M. TRAVER, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REFERENCE JULY 16 DMEA-4047 CHARLES M. COLEMAN AND ASSOCIATES. THIS WILL AUTHORIZE YOU TO AMEND STAGE II OF THE SUBJECT CONTRACT TO PERMIT THE DRILLING ON WARREN GROUP OF CLAIMS OF HOLES NOS. 1, 2, 3, AND 4 TO APPROXIMATE DEPTHS OF 200 FEET, AND HOLES NOS. 6, 7, 8, 9, AND 10 TO APPROXIMATE DEPTHS OF 300 FEET, AND TO EITHER DEEPEN HOLE NO. W-1 OR DRILL HOLE NO. 5 TO APPROXIMATE DEPTH OF 250 FEET. ALL STAGE II WORK SHALL TOTAL NOT MORE THAN 2500 FEET OF DRILLING. THE COST OF SAID WORK SHALL NOT EXCEED THE COST SET FORTH UNDER STAGE II OF THE CONTRACT. THE COMPLETION DATE OF THE CONTRACT SHOULD BE EXTENDED TO ALLOW TIME TO COMPLETE WORK.

GEORGE C. SELFRIDGE,
CHAIRMAN, OPERATING COMMITTEE

FLKnouse/gla
7-18-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr.Knouse
Confirmation to DMEA Field Team, Region III

700

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

FILE COPY
Surname:

July 24, 1956

Memorandum

To: Associate Solicitor, Division of Mineral Resources

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

Subject: Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
Clyde, Marsh, and Longport Groups of Claims
Fremont County, Wyoming

Please prepare an amendment to the subject contract for the signature of the Administrator to modify the work described in the contract as follows:

1. Extend the completion date of the work described in the contract until October 1, 1956.

2. In Exhibit "A" on page 2 under Stage II delete the entire reference to theheading "Estimated Cost of Project", and add the following:

Stage II

Stage II consists of drilling not more than 10 holes on Marsh Group of Claims aggregating not more than 2,500 feet, the locations of holes Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and M-1, are shown on the attached map entitled "Marsh Group Secs. 32 & 33, T 33 N R 90 W Fremont County, Wyoming." Holes Nos. 1, 2, 3, and 4, shall be drilled to an approximate depth of 200 feet each, and Holes 6, 7, 8, 9, and 10, shall be drilled to an approximate depth of 280 feet each, and Hole No. M-1 shall be deepened to an approximate depth of 280 feet or drill hole No. 5 shall be drilled to an approximate depth of 280 feet.

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, the allowable cost of any item of work or the agreed unit cost of any items of work.

FLKnouse/izm 7-24-56
cc to: Docket
code 700
Mr. Knouse

F. L. Knouse

Department of the Interior

UNITED STATES DMEA 700
DEPARTMENT OF THE INTERIOR Metals Div.
DEFENSE MINERALS EXPLORATION ADMINISTRATION 14X4400(01) Revolving Fund, Defense Production Act, Int. (Allocated
WASHINGTON 25, D.C. Revolving Fund to the Office of the Secy.)

TELETYPE

Surname Copy

FLKnouse
Ellis
Kulsgaard
Graham
Selfridge
Johnson
Mattendorf

MR. W. M. TRAVER
EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

JUL 16 1956

REURTT JULY 12 DMEA-4047 CHARLES M. COLEMAN AND ASSOCIATES. IT IS NOT WITHIN YOUR DELEGATED AUTHORITY TO AMEND CONTRACT AS PROPOSED. PLEASE ADVISE IF STAGE I DRILLING ON MARSH GROUP IS COMPLETED, ALSO RESULTS THEREFROM, AND FROM HOLE DEEPENED BY OPERATOR. WOULD YOU RECOMMEND DEEPENING ALL OF STAGE I HOLES ON MARSH GROUP BY USING STAGE II DRILL FOOTAGE? FURNISH RECOMMENDATIONS FOR AMENDMENT.

George C. Demmings

CHAIRMAN, OPERATING COMMITTEE

FLKnouse/ai 7-13-56
cc to: Docket
Admr.'s Reading File
Operating Committee
Code 700
Mr. Knouse
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JDHosted, Rm. 3210, GSA

DMEA Field Team, Region III (2) - Confirmation

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

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

RECEIVED
JUL 18 1956

224 New Customhouse
Denver 2, Colorado

VIA AIR MAIL

July 16, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4047 (Uranium), Contract Idm-E943, Charles M. Coleman and Associates (Clyde, March, and Longport Claim Group), Fremont County, Wyoming.

In conjunction with the matter discussed in your teletype of July 16, 1956, we are enclosing the following material relative to an amendment to Contract Idm-E943:

1. Two complete copies and two partial copies of material submitted by the Operator, and transmittal thereof dated June 18, 1956, which constitutes the Operator's analysis of Stage I work and request for approval of Stage II work on the Marsh Group.

2. Original and three copies of a joint memorandum, dated July 6, 1956, from C. R. Garrett, Jr., Mining Engineer, Bureau of Mines, and E. N. Harshman, Geologist, Geological Survey, also member of DMEA Field Team, Region III.

Relative to your teletype regarding deepening of Stage I holes, we have been informed that the Stage I holes have caved and it would not be practical to deepen those holes.

We recommend that an amendment be prepared deleting the following from provisions pertaining to Stage II work:

"The maximum depth that holes shall be drilled is as follows:

Clyde Claim Group	120 feet
Marsh Claim Group	120 feet
Longport Claim Group	150 feet."

Field Team, Region III, approval could then be issued to authorize offsetting hole M-3 by four holes drilled to a depth of 200 feet and six holes drilled on the Marsh 1 and 2 Claims drilled to a depth of 280 feet, as shown on the sketch map attached to the joint engineering and geologic report.

The four offset holes drilled to a depth of 200 feet would explore to below the mineralization encountered in hole M-3 drilled to the greater depth at Company expense, and the six other holes drilled to a depth of 280 feet would permit exploration through the upper member of the Wind River formation.

After you have reviewed the material, we will appreciate advice by teletype as to your decision in the matter.

for W. M. Traver

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
DMEA
Date Rec'd. JUL 9 1956

RECEIVED
JUL 18 1956

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
July 6, 1956

BUREAU OF MINES
Denver, Colorado

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: C. R. Garrett, Jr.
E. N. Harshman

Subject: DMEA Docket 4047 (Uranium) Contract Idm-E943, Charles M. Coleman and Associates (Clyde, Marsh, and Longport claim groups) Fremont County, Wyoming - Request for Stage II drilling

Stage I exploration as authorized in contract Idm-E943 was completed on May 28, 1956. This work consisted of drilling 27 rotary non-core holes and excavating about 1,700 lineal feet of trenches - seven in number. The results of Stage I exploration, described in a report by geologist Ralph H. Thurston which accompanies the request for Stage II exploration, are briefly as follows:

Clyde group -- Trenches excavated to explore the anomaly on the Clyde claims Nos. 11, 12, 13 and 14 indicate that the abnormal radioactivity is due to very minor amounts of uranium in sandstone, tuff, and siltstone in the Wind River formation. The highest grade sample taken from the trench exposures contained 0.05 percent eU_3O_8. No significant uranium mineralization was found in the two holes drilled to a depth of 50 feet on a small anomaly on the Clyde No. 17 claim. These holes penetrated the upper part of the Wind River formation.

Longport group -- Seven holes on the Longport group failed to encounter significant uranium mineralization associated with the surface anomalies explored on the Longport Nos. 1, 2, 4 and 5 claims. Six of these holes were drilled to depths of 50 feet and one to a depth of 270 feet; all explored the upper part of the Wind River formation. The one deep hole was drilled below 120 feet at company expense.

Marsh group -- Eighteen holes were drilled in the upper part of the Wind River formation to explore surface anomalies on the Marsh claims Nos. 1 to 6 inclusive. Thirteen of these holes were drilled to depths of 70 feet, and two were drilled to depths of 120 feet as specified in the contract. Three holes were drilled at company expense beyond the 120 feet specified in the contract, one to a depth of 280 feet and two to a depth of 140 feet.

Hole M-3 (drilled to a depth of 280 feet) is reported by Thurston to have cut ore-grade material, estimated by probing to contain 0.20 percent eU_3O_8, at depths of 178.5 to 180.5 feet and 185.0 to 186.5 feet. Hole M-11 is reported to have cut material containing 0.14 percent U_3O_8 at 28.0 to 29.5 feet, and 2 inches of material containing 0.11 percent U_3O_8 at 41.5 feet. Holes M-4, M-8, M-9 and M-13 were slightly mineralized; all other holes were essentially barren.

In his proposal for Stage II and III exploration Thurston proposes that four offset holes be drilled on the Marsh No. 1 and Marsh No. 2 claims to depths of 200 feet around hole M-3 to further explore the mineralization found at 178.5 to 186.5 feet. This request is reasonable and it is recommended that these holes be approved by the Government. An amendment will be required to increase the maximum hole depths on the Marsh group from 120 to 200 feet.

In addition to the four offset holes, Thurston requests that Stage II be amended to permit the drilling of 23 rotary non-core holes on the Marsh group to an average depth of about 312 feet, and that nine rotary non-core holes be authorized on the Longport group to explore to an average depth of 400 feet.

Stage III, if approved as requested would consist of 20 holes averaging 260 feet on the Marsh group, six of which would in part be cored using frozen core methods, and 12 holes on the Longport group averaging 350 feet deep, four of which would be cored in part.

With the exception of the four offset holes around hole M-3, Stage II and III drilling as requested by the applicant have little or no relation to the program of exploration authorized in the contract. At the time of the original examination it was recognized that ore deposits occurred throughout the upper part of the Wind River formation but the only geologic justification for drilling on the Clyde, Longport and Marsh claim groups was the presence of radiometric anomalies on those claims. Since those anomalies could only indicate the possible presence of near surface deposits, drilling was limited to depths of 50 to 120 feet. It should be noted that the exploration program proposed in the original application included no drilling deeper than 75 feet and that the field examiners actually recommended deeper exploration than requested by the applicant.

Exploration under Stage I of the contract strongly suggests that, with the possible exception of a small area around hole M-11, the surface anomalies on the Clyde, Longport, and Marsh claims are not indicative of ore-grade uranium deposits. Although ore deposits occur in the Gas Hills area at depths greater than those drilled in Stage I, a fact known to the field examiners and the applicant at the time of the field examination, it is not believed that Stage I exploration has provided sufficient supplementary geologic data to justify the entire program of deeper exploration proposed by the applicant. This is particularly true on the Longport claim group where the basic geologic data on the ore potential of the deeper Wind River ore horizon are identical to those available at the time of the original examination.

The operator, at his own expense deepened one hole (M-3) on the Marsh group to explore the lower part of the upper Wind River formation. Two thin zones of ore-grade material were cut in the depth interval 178.5 to 186.5 feet. A broad poor defined target has, therefore, been established on the Marsh claims Nos. 1 and 2 and it would appear appropriate to allow the operator to expend the funds remaining in Stage II, after offsetting hole M-3 with four holes 200 feet deep, in deeper exploration on these two claims.

It is recommended that the 2,500 feet of drilling allotted in Stage II be used as follows:

(1) Offset Hole M-3 with four holes 200 feet deep to be drilled at locations shown on figure 1.

(2) Drill six holes at locations shown on figure 1, each to a depth of 280 feet or 10 feet below the upper contact of the lower Wind River formation whichever is the more shallow.

If reopening hole M-1 is feasible and economical, it will be drilled from its present depth of 70 feet to 280 feet. Otherwise, a new hole will be drilled at a location 100 feet westward.

Should this drilling discover significant ore deposits or reveal geologic conditions favorable for ore deposits, supplemental funds for extending the drilling program should be requested by the applicant.

Stage II Estimated Costs

Estimated time for completion - 10 days

Independent Contracts:		
(a) Bulldozer to prepare drill site 10 hours at $12.50/hr.	$125.00	
(b) Rotary non-core drilling - 10 holes with maximum of 2,480 feet at $1.00/ft.	2,480.00	
		$2,605.00
Supervision:		
1 Supervising geologist at $600.00/mo. ½ mo.	300.00	
1 Sampler at $1.75/hr., 10-8 hr. days	140.00	
		440.00
Equipment Rental:		
Rental on automobile or pickup truck, 400 miles at .10/mile	40.00	
		40.00
Materials and Supplies:		
Sample containers & misc. office supplies	10.00	
		10.00

Miscellaneous:		
Radiometric hole logging 2,480 feet at .10/ft.	$248.00	
Accounting	42.00	
Payroll taxes and insurance	0	
100 chemical analysis at $3.50 ea.	350.00	
		640.00
Estimated total cost of Stage II		$3,735.00
Government's share at 75 percent		2,801.25

All items and unit costs used above are maximums.

General Provisions of the Contract:

The Company, with a Model D-7 Caterpillar tractor with dozer or equivalent size unit, shall prepare access roads to drill sites and also drill sites.

All holes shall be drilled with a rotary drill with a non-coring bit of sufficient size to leave a hole that can be easily and efficiently probed.

The drill holes shall each be drilled to depths indicated on figure 1, and shall not penetrate more than 10 feet into the lower member of the Wind River formation.

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

All drill cuttings, either dry or wet, shall be recovered by a suitable sampling device at drilling intervals of every 2 feet. All samples or drill cuttings are to be labeled and stored pending Government examination and may after such examination and if the Government consents, be discarded by the Company.

All drill cuttings showing radioactivity or having visible mineralization shall be sampled. Each sample shall be split into 2 halves, one half shall be analysed chemically for U_3O_8 and the other half shall be furnished to the Government.

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

It is recommended that the Government participate in the cost of this additional exploration on the subject property. The Government's share of the cost is (rounded to) $2,800.00.

C. R. Garrett Jr.
C. R. Garrett, Jr., Mining Engineer
E. N. Harshman
E. N. Harshman, Mem. Field Tm.

DILLING AND DILLING
ATTORNEYS AT LAW
139 NORTH CLARK STREET
CHICAGO 2

ALBERT W. DILLING
KIRKPATRICK W. DILLING

TELEPHONE
CENTRAL 6-8417

DMEA
Date Rec'd.
JUN 19 1956
BUREAU OF MINES
Denver, Colorado

June 18, 1956

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

RECEIVED
JUL 18 1956

Re: Docket DMEA 4047 (Uranium) - Contract Idm-E943

Dear Sir:

Herewith enclosed are five copies of the report of Mr. Ralph H. Thurston, project geologist, covering Stage I work performed under the above contract, and proposals for further work under Stage II.

The enclosures supply the additional copies necessary of such document, one copy having been forwarded on June 14th.

Yours very truly,

Albert W. Dilling

AWD: hs

RECEIVED
JUL 18 1956

DMEA
Date Rec'd.
JUN 14 1956

BUREAU OF MINES
Denver, Colorado

REPORT ON

WORK PERFORMED UNDER STAGE I

AND

PROPOSALS FOR FURTHER WORK

ON

THE CLYDE, LONGPORT, AND MARSH GROUPS OF CLAIMS

UNDER

EXPLORATION PROJECT CONTRACT No. Idm - E - 943

D M E A DOCKET #4047

FOR

CHARLES M. COLEMAN AND ASSOCIATES

by

Ralph H. Thurston

June - 1956

REPORT ON WORK ACCOMPLISHED UNDER STAGE I

PROPOSALS FOR WORK TO BE PERFORMED UNDER STAGES II AND III

D M E A CONTRACT No. Idm - E 943

WORK PERFORMED - STAGE I

Drilling under Stage I was started on May 8, 1956 and completed on May 17, 1956. A loss of time due to a breakdown of equipment caused the bulldozing to lag behind the drilling, and the bulldozing was not completed until May 24, 1956.

The drilling was done with a Mayhew rotary drill mounted on an International truck. Dust samples were collected with a cone collector of the Duclone type, and a 600 c.f.m. air compressor was used to furnish air with which to remove cuttings from the holes. Samples were taken at two-foot intervals. The cuttings were logged lithologically and screened with a LaRoe Scintilation Counter, Model FV-5U. Samples weighing about one-half pound were taken from each two-foot interval, with duplicate samples taken for assay purposes from those intervals that indicated significant radiometric count.

All holes were logged with a Babbel Counter, Model 610, and a reel-mounted probe with a depth recorder. The attached logs of the holes show lithologic, radiometric, and assay information.

No mineralization of any consequence was found in the drill holes on the Clyde and Longport groups. One shallow and one deep occurrence of ore-grade mineralization were encountered in the drilling on the Marsh group. This mineralization, particularly the deep (178.5 - 186.5') occurrence is encouraging and warrants further exploration.

Stratigraphic information derived during the work indicates that most of the drilling on the Marsh group and probably all of the drilling on the Clyde and Longport groups was too shallow to intersect the horizons known to be favorable for ore deposition. Stage II drilling should be done to deeper depths than previously planned in order that the favorable stratigraphic zone can be penetrated.

Clyde Group

Work performed on the Clyde group of claims constituted drilling two holes to a depth of 50 feet to explore a small anomalous area on claim # 17 (see attached map), and bulldozing seven tractor trenches to explore the stratigraphy around the west and northern sides of the anomalous area on claims nos. 11, 12, 13, and 14.

The two drill holes (C-1 and C-2) were put down through sandstone and siltstone of the upper Wind River formation without encountering significant mineralization. It is thought that further drilling on the Clyde group should be confined to the central portion of the claim group where minor faulting indicates possible favorable conditions at depth. It is believed that the most favorable beds will be near the base of the upper Wind River formation at a depth of probably not to exceed 200 feet below the surface.

The tractor trenches cut across the upper beds exposed on claims nos. 11, 12, 13, and 14, exposed conglomerate, sandstone, tuff and mudstone of the White River formation. Abnormally high count was found in the upper sandstones, siltstones, tuffs, and mudstones, but samples cut across the beds of highest radiometric count indicated a maximum content of 0.05 percent U_3O_8. The highest radiometric count and assay values were obtained from sandstone occurring with and beneath the cobble conglomerate that caps the hill, and in mudstone immediately beneath the sandstone.

The writer believes that additional tractor trenching would be of little value, and that drilling to the base of the upper Wind River formation is a preferable means of exploration. It is inferred that the base of the upper Wind River formation is probably not deeper than 200 feet beneath the surface. However, until more information on the area is available, it is believed that available money can be more usefully expended on the Marsh and Longport groups of claims.

Longport Group

Seven rotary non-core holes were drilled at locations designated on the map accompanying the Exploration Contract. They are shown on the attached map of the Longport group. All were drilled to a depth of 50 feet, except hole no. L-2, drilled to a depth of 270 feet (50 feet specified in the contract). No significant mineralization was encountered.

However, as the holes penetrated beds higher in the upper Wind River formation than those that have proven elsewhere to be more favorable, the results of the drilling are not conclusive. It is believed that drilling to the base of the upper Wind River formation may disclose ore-grade uranium mineralization. Proposals for additional drilling are made later in this report.

Marsh Group

Eighteen rotary non-core holes were drilled at locations designated on the map accompanying the Exploration Contract. The attached map shows the location and depth of these holes, as well as the location of holes proposed for Stage II. Hole M-3 was drilled to 280 feet (120 feet specified in the contract), hole M-7A was drilled to 140 feet (120 feet specified), and hole M-12A was drilled to 140 feet (120 feet specified). The remaining holes were drilled to depths specified; attached is a list of collar elevations of all holes drilled.

Two mineralized intercepts of believed ore grade were encountered in hole M-3. Depths and grade of the intercepts are as follows:

178.5' - 180.5' = 2.0 feet. Est. grade 0.20% U_3O_8
185.0' - 186.5' = 1.5 " " " 0.20%

Hole probed with Model 610 Babbel Counter in calibration

Unoxidized ore believed to be in calibration

Water encountered at 140 feet and hole was finished using water as a circulating medium. Count in samples was noted from 190 to 206 feet, the discrepancy in depth believed to be due to a mistake on depth made by the driller. Two samples taken for assay contained 0.01% U_3O_8 for interval 196 to 198 feet, and 0.02% U_3O_8 for interval 198 to 200 feet.

Of the other holes drilled on the Marsh group, only hole M-11 intersected significant mineralization. In that hole, a 1.5 foot thick chocolate brown siltstone 40 feet above the conglomerate (28 - 29.5 feet below the collar of the hole) assayed 0.137% U_3O_8, and a 2 inch thick streak of carbonaceous material in fine grained sandstone at 41.5 feet assayed 0.11% U_3O_8. Radiometric count but no commercial assay values were obtained in holes M-4, M-8, M-9, and M-13, all above the conglomerate.

Hole M-3 was drilled through the base of the upper Wind River formation to obtain stratigraphic information and test the lower horizons. That hole, together with the others, yielded information indicating that none of the holes except M-3 penetrated the horizons in which ore bodies have been found to the west and to the north of the Marsh group.

All of the ore in the Gas Hills District has been found in the upper Wind River formation, composed largely of coarse arkosic sandstone and conglomerate with relatively minor amounts of siltstone and mudstone. The lower Wind River formation consists preponderantly of siltstone and mudstone, and has few arkosic sandstone beds. Red siltstone beds mark the contact between upper and lower Wind River beds in the vicinity of the Marsh group. Nearby ore deposits are from 50 to 180 feet above red beds.

A conglomerate bed from fifteen to thirty feet thick crops out near the north end of the Marsh group, and goes beneath the surface to the south. It is believed to be the same conglomerate that occurs on the Ola group, and contains granite and quartzite cobbles to 6 inches in diameter and black chert. This conglomerate bed is of widespread occurrence in the vicinity of the Marsh group, and serves as a useful marker bed.

The Globe Mining Company has drilled out an ore deposit on the Ola group that occurs about 70 feet stratigraphically below the conglomerate bed. The base of the conglomerate is approximately 245 feet above the red beds in drill hole M-3. If the relationship between the conglomerate and red beds is the same on the Ola group as on the Marsh group, the ore deposit on the Ola group is approximately 175 feet above the red beds.

The Gas Hills Uranium Corporation is currently drilling an ore body on the Sagebrush group of claims about one-half mile northwest of the Marsh group. This ore body is 180 feet above the red beds. The ore deposits on the Bullrush group adjoining the Sagebrush group are known to occur at from 120 to 160 feet above the red beds. The Bridger Mining Company, in Sec. 30, T33N, R90W, is stripping to ore believed to occur at about 50 feet above the red beds.

Inasmuch as the significant ore deposits in the vicinity of the Marsh group occur from 50 to 180 feet stratigraphically above the base of the upper Wind River formation, it is to be expected that ore on the Marsh group will be found in the same general stratigraphic zone. Mineralization found in hole M-3, 76 feet and 83 feet above the red beds, bears out this viewpoint, and makes it almost mandatory that further exploration on the group be done at depths proven favorable on surrounding properties.

PROPOSALS FOR FURTHER WORK

Proposals for further work are discussed in detail in following sections of this report. In general, they consist of drilling widely-spaced rotary non-core holes to the base of the upper Wind River formation in proposed Stage II. Stage III proposals are for drilling offsets to the mineralized holes drilled in Stage II, and, further, of drilling a few frozen core holes to get good samples for chemical assay which will make possible correlation of radiometric and chemical data so the radiometric data gained from Stage II and the first part of Stage III drilling can be accurately evaluated.

Accurate data on the elevation of the water table in the general area covered by the proposed work are lacking, but it is believed that most of the drill holes will encounter water before the favorable horizons are reached. For this reason it will be impossilbe to get dust samples in most or all of the holes at critical depths. It is therefore proposed that sludge samples be taken from depths beneath the local water level, and that all holes be probed radiometrically.

It may be stated as a generalization that most, if not all, of the ore thus far found in the Gas Hills area at or below the water table is unoxidized and is in near chemical-radiometric balance, with a slight balance in favor of chemical values, i.e., chemical assays are slightly better in the unoxidized ores than radiometric values. It is believed, therefore, that radiometric logging is a useful tool in evaluating unoxidized uranium ore deposits in the district.

Ordinary core drilling in the district has proven to be abnormally expensive, and, because of poor core recovery, unsatisfactory. By using frozen core methods excellent core recovery can be obtained, usually at costs only a little higher than for careful coring using conventional methods. It is proposed to drill enough frozen core holes to get accurate

samples for chemical analysis, and to yield a comparison between probe data and chemical data. A comparison of radiometric and chemical assays will permit a better degree of accuracy in evaluating the results of the drilling and the eventual reserves.

Frozen coring is rather expensive, but inasmuch as the frozen core holes will not be drilled until the end of the program, the lengths of the cored intercepts may be held to a minimum due to accurate data regarding coring depths. The cycle will be to drill to the depths at which coring will be started using rotary non-core methods, and then using frozen core techniques to drill the ore intercepts. The frozen core method has been used in the district and core recovery of 95 to 98 percent has been attained. It is believed that a program designed to use the techniques described above will yield superior results at a total cost lower than any other satisfactory method of exploration in the Gas Hills District.

SUMMARY OF PROPOSED WORK

STAGE II	Drilling			Bulldozing			Assaying			Grand Total Cost
	Feet	Cost/ft.	Total Cost	Hours	$/hr.	Cost	No. assays	$	Cost	$
Marsh group										
rotary non-core	8,000	1.27	$10,160.00	16	13.00	208.00	40	3.50	140.00	10,508.00
Longport group										
rotary non-core	3,700	1.27	4,699.00	8	13.00	104.00	16	3.50	56.00	4,859.00
TOTAL	11,700		$ 14,859.00	24		$312.00	56		$196.00	$ 15,367.00
STAGE III										
Marsh group										
rotary non-core	3,640	1.27	4,622.80	8	13.00	104.00	50	3.50	175.00	9,458.20
rotary non-core plug	1,320	1.27	1,676.40							
frozen coring	240	12.00	2,880.00							
			$9,179.20							
Longport group										
rotary non-core	2,800	1.27	3,556.00	8	13.00	104.00	30	3.50	105.00	7,259.80
rotary non-core plug	1,240	1.27	1,574.80							
frozen coring	160	12.00	1,920.00							
			$7,050.80							
TOTAL										
rotary non-core	6,440		$8,178.80							
rotary non-core plug	2,560		3,251.20							
frozen coring	400		4,800.00							
			$16,230.00	16		$208.00	80		$280.00	$16,718.00
GRAND TOTAL										
rotary non-core	20,700									
frozen coring	400		$31,089.00	40		$520.00	136		$476.00	$32,085.00

PROPOSALS FOR WORK UNDER STAGE II

It is proposed that work under Stage II of the contract be performed on the Longport and Marsh groups of claims, and that, in the interest of getting the best advantage from available funds, further work on the Clyde group be delayed until more information is available on that area.

MARSH GROUP

It is proposed that 27 rotary non-core holes be drilled at locations shown on the attached map. Four of the holes are designed to offset mineralization found in hole M-3. They should each be drilled to about 200 ft. depth. The other 23 holes should be drilled deep enough to penetrate the red beds at the base of the upper Wind River formation and thereby explore all of the stratigraphic horizons known to be favorable in the area of the claim group. Total footage necessary is estimated to be 8,000 feet and the average depth of the holes will be approximately 312 feet, although the holes toward the northern end of the claim group will be appreciably shallower than that depth, and the holes toward the southern end of the claim group will be deeper than the average. The difference in depth is due to the regional dip of the beds to the south and topography rising to the south.

It is anticipated that 16 hours of bulldozer work will be required for the preparation of drill sites. As part of the drilling is offsetting known mineralization, it is estimated that 40 chemical analyses be required.

ESTIMATED COSTS

8,000 feet of rotary non-core drilling..	@ $1.27/foot..	$10,160.00
16 hours of tractor bulldozing.....	@ $13.00/hr.....	208.00
40 assays.....	@ $3.50/determination.....	140.00
	Total	$10,508.00

LONGPORT GROUP

It is proposed that 9 rotary non-core holes be drilled on the Longport group at locations shown on the accompanying map. It is estimated on the basis of data acquired from the U. S. Atomic Energy Commission field office in Casper, Wyoming, and other data available to the writer, that the average depth to the base of the upper Wind River formation is about 400 feet. It is proposed that the initial hole in this part of the program be drilled to a depth of 500 feet, to get stratigraphic information. The other eight holes will be drilled to the base of the upper Wind River. A tolerance of twenty feet in the lower Wind River beds will be necessary in determining the position of the contact because it is not known whether the contact in this area is marked by a red bed and it is known that red beds occur in the upper Wind River here. Total footage required is estimated to be 3,700 feet.

ESTIMATED COSTS

3,700 feet of rotary drilling.....	@ $1.27/foot.....	$4,699.00
8 hours - tractor bulldozing.....	$13.00/hour.....	104.00
16 assays.....	@ $3.50/determination.....	56.00
	Total	$4,859.00

PROPOSALS FOR WORK UNDER STAGE III

Proposed work under Stage III will consist of holes offsetting mineralized holes drilled during Stage II, and a small amount of frozen core drilling to obtain good chemical assay information and furnish a control for accurate evaluation of the radiometric data. Specific recommendations follow:

MARSH GROUP

It is estimated that 14 rotary non-core drill holes will be required to offset mineralized holes drilled during Stage II. As it will not be necessary to drill these offset holes to the base of the upper

Wind River it is estimated the average depth will be 260 feet and the total footage required will be 3,650 feet. In addition, 6 holes in which the mineralized horizons are cored using frozen core methods are deemed necessary. These holes will be plugged to depths near the ore horizon and a maximum of 40 feet cored in each hole.

ESTIMATED COSTS

3,640 feet rotary non-core drilling...	@ $1.27/foot...	$4,622.80
1,320 feet rotary plug drilling.....	@ $1.27/foot...	1,676.40
240 feet frozen coring.....	@ $12.00/foot.....	2,880.00
50 assays.....	@ $3.50/determination.....	175.00
8 hours bulldozing drill sites.....	@ $13.00/hr.....	104.00
	Total	$9,458.20

LONGPORT GROUP

It is estimated that 8 rotary non-core drill holes averaging 350 feet depth and aggregating a total footage of 2,800 feet will be required to offset mineralized holes drilled during Stage II. In addition, 4 holes in which the mineralized horizons are cored using frozen core methods are proposed.

ESTIMATED COSTS

2,800 feet rotary non-core drilling ..	@ $1.27/foot....	3,556.00
1,240 feet rotary plug drilling ..	@ $127/foot.....	1,574.80
160 feet frozen coring ...	@ $12.00/foot.....	1,920.00
8 hours bulldozing drill sites	@ 13.00/hr.....	104.00
30 assays ...	@ $3.50/determination.....	105.00
	Total	$7,259.80

Respectfully submitted,

Ralph H. Thurston

Ralph H. Thurston

DRILL HOLE LOG

Hole No. L-1

Date Drilled May 15, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale	Reading 4 Scale
0	.09	.07
1-5	.09-.10	.08
6-10	.10	.09
11	.10	.09
12-29	.10-.11	.10
30	.10	.11
31-33	.11-.13	.10
33.4	.11	.14
34	.13	
35-39	.12	.10
39-43	.11	.11
44	.12	.10
45	.11	
46	.11	.09
47	.11	.10
48	.12	.09
48.9	.12	.09

SAMPLE DATA

LITHOLOGY

0-2'	Soil
2-4	Dull earth brown clay mixed with ss.
4-14	Lt. gray to buff, coarse gr. ss. Well cemented
14-20	Dull, earth brown ss. mixed with clay
20-22	Buff, med. gr. ss.
22-28	Greenish, med. gray, coarse gr. ss.
28-34	Greenish gray siltstone.
34-36	Tan sandy siltstone.
36-37	Lt. gray sandy siltstone.
37-37.5	Blue gray siltstone.
37.5-39.5	Buff to tan sandy siltstone.
39.5-46	Tan silty ss.
46-50	Buff to lt. gray siltstone.

T.D. 50'

DRILL HOLE LOG

Hole No. L-2

Date Drilled May 15, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.04
1-134	.04-.06
135-137	.07
138-195	.04-.06
195-269	.02-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-2	Soil
2-12	Buff siltstone & clay-med. grained.
12-14	Tan to buff - fine grained siltstone.
14-18	Tan sandstone-very fine grained.
18-24	Buff med. grained ss.
24-26	White ss.-med. grain.
26-28	Buff ss.-med. grain.
28-30	White ss.-med. grain.
30-34	Buff ss.-med. grain & FeOx.
34-40	Greenish fine grained ss. Clay in matrix.
40-54	Greenish siltstone & clay.
54-58	Gray to green fine grained ss.
58-62	Lt. gray ss.-very fine grained FeOx.
62-64	White ss. - med. grained.
64-70	Buff to tan ss. - some green clay near 70'.
70-74	Tan ss. - fine grained--FeOx.
74-76	Tan ss. & green clay.
76-80	Buff med. grained ss.
80-86	Gray claystone.
86-90	White ss. - fine grained.
90-96	Gray claystone-some FeOx.
96-104	Gray ss. - med. grained.
104-114	Blue-gray ss.-very fine grained. Some claystone.
114-120	Blue shaley ss. - V.F.G. Red silt at 120'.
120-132	Greenish blue siltstone. (124-128 some brownish streaks.)
132-148	Lt. blue ss. - V.F.G.
148-150	Lt. blue ss. - V.F.G. & clay.
150-160	Lt. blue ss. - med. grained.
160-180	White to blue ss-med. to coarse.
180-190	Blue-green claystone.
190-198	Alternate green shale & white ss.
198-200	Blue and red claystone.
200-270	Green to red clays & white sand alternating.

T.D. 270'

DRILL HOLE LOG

Hole No. L-3 Date Drilled May 12, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.03
1-47.8	.02-.05

SAMPLE DATA

No Samples

LITHOLOGY

0-1	Soil
1-9.5	Lt. gray pebble congl.
9.5-10.5	Green mudstone
10.5-15	Lt. gray coarse ss. and green mudstone interbedded.
15-16	Tan, coarse gr. ss.
16-27	Lt. greenish gray, coarse gr. ss.Few bands siltstone near bottom.
27-28	Brown siltstone.
28-30	Green & tan siltstone with greenish gray coarse gr. ss.
30-31	Brown siltstone.
31-32	Bright tan, med. gr. ss.
32-34	Med. gray, med. grain ss.
34-40	Lt. gray to buff, med. gr. ss.
40-50	Lt. gray to buff, coarse gr. congl. ss.

T.D. 50'

Hole No. L-4 Date Drilled May 12, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.02
1-9	.02-.04
10-13.5	.05-.06
14-48.5	.01-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-2	Soil
2-12.5	Lt. gray to buff pebble cong.
12.5-14.5	Green mudstone.
14.5-17.5	Lt. gray, coarse gr. ss.
17.5-18	Bright lt. brown siltstone.
18-20	Lt. gray, coarse gr. ss. and lt. gray and brown siltstone interbedded.
20-22	Lt. gray, med. gr. ss. & lt. gray silt interbedded.
22-24.5	Buff silstone.
24.5-28	Green, fine gr. silty ss.
28-32	Lt. brown coarse gr. ss.
32-34	Buff, coarse gr. ss.
34-36	Lt. gray fine gr. ss.
36-40	Lt. gray to tan, coarse gr. ss.
40-43.5	Lt. gray siltstone.
43.5-44.5	Dull purplish brown siltstone.
44.5-50	Lt. greenish gray, med. grain ss.

T. D. 50'

DRILL HOLE LOG

Hole No. L-5 Date Drilled May 12, 1956

PROBE DATA

Babble counter

ft.	Reading 5 Scale
0	.02
1-48.1	.01-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-3	Soil
3-8	Buff to earth brown, med. gr. ss.
8-17.5	Lt. gray pebble cong.
17.5-20	Lt. green-gray silty mudstone.
20-33	Tan siltstone
33-34	Lt. gray, fine gr. ss.
34-48.5	Lt. gray coarse gr. ss.
48.5-50	Blue gray siltstone.

T.D. 50'

Hole No. L-6 Date Drilled May 12, 1956

PBROBE DATA

ft.	Reading 5 Scale
0	.02
1-58.4	.01-.04

SAMPLE DATA

No Samples.

LITHOLOGY

0-3	Soil
3-12	Lt. gray, coarse gr. congl. ss.
12-16	Lt. greenish gray, fine gr. silty ss.
16-20.5	Lt. green sandy siltstone.
20.5-22	Lt. greenish gray , fine gr. ss.
22-46	Lt. gray, coarse gr. ss. conglomeratic in places.
46-49.5	Lt. gray, fine gr. ss.
49.5-50	Dull earthy brown, fine gr. ss.

T. D. 50'

Hole No. L-7 Date Drilled May 12, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.03
1-48.2	.01-.04

SAMPLE DATA

No Samples.

LITHOLOGY

0-1	Soil
1-4	Lt. gray, fine gr. ss.
4-8	Lt. gray to buff, med. gr. ss.
8-14	Lt. gray to buff, coarse gr. ss.
14-17	Dull earth brown, coarse gr. ss.
17-22.5	Lt. gray-green, coarse gr. ss. Some silty beds.
22.5-24	Chocolate brown, fine gr. silty ss.
24-24.5	Red-brown, fine gr. ss.
24.5-32	Lt. greenish, fine gr. ss. Some silt beds.
32-32.5	Tan siltstone.
32.5-34	Lt. gray, med. gr. ss.
34-50	Lt. gray, coarse gr. ss.

T. D. 50'

MARSH GROUP

Elevation of Collar of Holes and Top of Conglomerate

Brunton and cloth tape survey

Collar of hole M-3 assumed to be 6582 ft.

Hole No.	Collar elev.	Elev. of top of Conglomerate
M-1	6601	Not present
M-2	6600	Not present
M-3	6582	At surface
M-4	6594	6570
M-5	6598	6568
M-6	6618	6570
M-7	6635	6568
M-8	6625	6565
M-9	6628	6565
M-10	6608	6548
M-11	6631	6563
M-12	6633	6558
M-13	6641	6549
M-14	6656	Not reached
M-15	6655	Not reached
M-16	6618	6558
M-17		Not reached
M-18		Not reached

DRILL HOLE LOG

Hole No. M-1 Date Drilled May 8, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.05
1-69'	.05 - .07

SAMPLE DATA

No Samples

LITHOLOGY

0'-10' Tan to lt. brown fine gr. silty ss. Strong FeOx stain.
10-18' Buff to tan fine gr. ss.
18-21' Buff to tan coarse gr. arkosic ss.
21-39' Tan Coarse gr. ss. and congl. pbls. to 1" dia.
39-46' Buff, coarse gr., congl. ss.
46-54' Lt. dull brown, coarse gr., ss. some large pbls.
54-57' Med. gray cobble congl. Black chert fragments with usual qtz., qtzite. & feldspar fragments.
57-70' Buff, coarse gr. congl. ss.

T.D. 70'

Hole No. M-2 Date Drilled May 8, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0 - 1	.05
1.5	.08
2.0	.10
3.0	.08
3.5	.06
4.0-67.5	.02-.06

SAMPLE DATA

No Samples

LITHOLOGY

0'- 4' Soil
4 - 6' Bright light brown, heavily FeOx stained, silty fine gr. ss.
6 -10' Buff, fine gr. ss.
10 -14' Med. gray congl.
14 -18' Buff to tan coarse gr. ss.
18 -23' Bright lt. brown, FeOx stained, coarse gr. ss.
23 -24' Tan Congl.
24 -30' Tan Med. grained ss.
30 -34' Buff coarse gr. ss.
34 -47' Buff to gray cobble congl. Some black chert pebbles.
47 -58' Buff coarse gr. congl. ss.
58 -70' Tan coarse gr. congl. ss.

T.D. 70'

DRILL HOLE LOG

Hole No. M-3 Date Drilled May 10, 1956

PROBE DATA

ft.	Reading 5 Scale	Reading 4 Scale
0	.03	
1-35	.03-.05	
36	.06	
36.5	.07	
37	.11	
37.5	.10	
38	.07	
39	.04	
40-175	.01-.03	
176	.08	.05
176.5	.10	.05
177	.13	.05
177.5	.16	.08
178	.29	.11
178.5	.56	.19
179	.74	.21
179.5	.85	.22
180	.79	.20
180.5	.50	.17
181	.27	111
181.5	.16	.06
182	.10	.04
182.5	.06	.05
183	.09	.05
183.5	.09	.06
184	.09	.06
184.5	.18	.08
185	.28	.12
185.5	.77	.22
186	.95	.26
186.5	.68	.18
187	.36	.11
187.5	.18	.07
188	.12	.06
188.5	.09	.04
189	.06	.03
190-193	.03-.05	
194-247	.01-.03	

Caved at 247'

SAMPLE DATA

ft.	$\%U_3O_8$
196-198=	.01
198-200=	.02

LITHOLOGY

0'-6' Soil
6 -17' Cobble conglomerate-buff.
17-30' Buff, coarse gr. ss.
30-70' Buff to tan, coarse gr. ss.
41'-46'-pebble congl.
70-76' Buff, coarse gr. ss.
76-80' Buff, coarse gr. congl. ss.
Some silt.
80-84' Buff, coarse gr. ss.
84-88 1/2 Blue gray siltstone
88 1/2 - 106' Light greenish gray
med. to coarse gr. ss.
106-132' Greenish-gray med. gr. silty ss.
132-136' Lt. gray coarse gr. ss.
136-140' Greenish gray silty ss.
140-164' White to lt. gray coarse gr. ss.
164-189' Lt. greenish gray coarse gr. ss.
189-205' Lt. greenish gray med. gr. ss.
205-246' Green siltstone.
246-262' Med. gray ss. with some dark
blue gray siltstone.
262-280' Intermixed red & gray silt-
stone-some coarse ss.

T.D. 280'

Bottom of upper Wind River formation believed to be at 262'.

Slight radiometric count in wet cuttings from 188' to 206'.

REMARKS: no cuttings 126' - 130', 138' - 140'. Water at 140'
Below 140' samples ore cuttings taken from water at hole collar in steel sump tank by shovel.

DRILL HOLE LOG

Hole No. M-4 Date Drilled May 8, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.04
1-15	.04-.06
16	.12
17	.18
18	.08
19	.04
20-76.5	.02-.05

SAMPLE DATA

19'-20' = .04% U_3O_8

20'-22' = .01% "

LITHOLOGY

0-1'	Soil
1-19'	Tan, coarse gr. congl. ss.
19-20'	Chocolate brown fine gr. silty ss. Last 1" or so white silty ss.
20-22'	Lt. brown, coarse gr., congl. ss.
22-31'	Lt. gray to buff cobble congl. Fragments black qtz.
31-38'	Buff coarse gr. congl. ss.
38-52'	Buff, coarse gr. ss., congl. in part.
52-62'	Tan, coarse gr. ss.
62-64'	Bright lt. brown, coarse gr. ss.
64-70'	Tan, coarse gr. ss.

T.D. 70'

Hole No. M-5 Date Drilled May 9, 1956

Babble Counter

ft.	Reading 5 Scale
0	.04
1-45	.04-.06
45-113.5	.03-.05

No Sample

0'-1'	Soil
1 -14'	Dull lt. brown fine gr. ss. conglomeratic
14- 16'	Tan, med. gr. ss.
16- 30'	Tan, coarse gr. congl. ss.
30- 50'	Cobble Congl.
50- 58'	No cuttings - drilled like soft ss.
58- 85'	Buff to tan coarse gr. ss.
85- 92'	Lt. gray-green coarse gr. ss.
92- 97'	Buff, coarse gr. ss.
97- 98'	Blue-gray siltstone
98-102'	Lt. gray coarse gr. ss.
102-105'	Blue-gray siltstone
105-120'	Blue-gray fine gr. ss.

T.D. 120'

DRILL HOLE LOG

Hole No. M-6 Date Drilled May 8, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
ft.	Reading 5 Scale			
0	.02	No Samples	0'-6'	Buff pebble congl.
1-67.8	.02-.04		6 -13.5	Tan coarse gr. congl. ss.
			13.5-15	Lt. gray med. gr. ss.
			15 -30'	Tan, Coarse gr. ss.
			30 -38'	Buff to tan coarse gr. ss.
			38 -54'	Cobble congl., buff to tan. Black chert fragments.
			54 -66'	Lt. gray cobble congl.
			66 -70'	Buff to tan coarse gr. ss.
			T.D. 70'	

REMARKS: Cobble congl. 38' - 66' very hard drilling. Much extra sand blown out. Must be large diameter hole in places.

Hole No. M-7 Date Drilled May 8, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
ft.	Reading 5 Scale			
0	.04	No Samples	0-1'	Soil
1-75.5	.02-.05		1-6 1/2'	Buff conglomerate
			6 1/2 -12	Buff to tan congl. and coarse gr. ss.
			12 - 20	Tan coarse gr. ss.
			20 - 30	Buff to tan congl. and coarse gr. ss.
			30 - 36	Siltstone - White to lt. gray spotted with FeOx stain. Probably stained in alternate beds.
			36 - 42	Tan, med. gray ss.
			42 - 67	Tan, coarse gr. ss. 3' med. grain. at 48'-51'.
			67 - 75	Buff to tan boulder congl.
			75 - 83	Med. gray boulder congl.
			T.D. = 83'	Hole caved

REMARKS: The conglomerate from 67' to 83' was very hard drilling and wore out two bits. Such a large amount of sand was blown from the hole during the slow drilling that it is believed no satisfactory samples could be obtained from greater depths even if the hole could be drilled deeper.

DRILL HOLE LOG

Hole No. M-7-A

Date Drilled May 16, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.03
1-30	.02-.04
31	.07
32	.08
33	.09
34-35	.08
36	.07
37-55	.04
56	.07
57	.06
58	.04
59-71	.04-.06
72	.08
73	.08
74-75	.06
76-77	.05
78-84	.06
85-86	.04
87-88	.06
89-113	.04
114-115	.06
116-123	.04
124-126	.06
127-131	.04
132	.05
133-140	.03-.04

SAMPLE DATA

No Samples

LITHOLOGY

Log of M-7 satisfactory to 52'

54-56	Conglomerate-buff (cont. Qtz., Blk. chert.)
56-62	Tan to buff ss. med. gr.
62-64	Fine gr. tan ss. & FeOx.
64-70	Buff boulder cong.
70-72	Tan fine gr. ss.
72-86	Buff bldr. congl.
86-88	Buff ss. 6" blue clay. Parting 87.5 - 88'.
88-108	Buff ss. Med. to fine gr.
108-110	Gray boulder congl.
110-122	Buff & tan ss. med. gr. & FeOx & bl. clay partings.
122-124	Buff fine gr. ss. Blue green shale parting (+ - 4")
124-140	White to tan ss. med. to fine gr.

T. D. 140'

DRILL HOLE LOG

Hole No. M-8 Date Drilled May 9, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.04
1-30	.03-.05
31	.07
32	.10
33-34	.09
35	.16
36	.20
37	.14
38	.11
39	.06
40-58	.04-.06

Caved at 58'

SAMPLE DATA

ft.	% U_3O_8
36'-38'	= .02

Chocolate & buff silt.

LITHOLOGY

0- 4'	Buff to tan siltstone
4-14'	Buff, coarse gr. ss.
14-33'	Buff to tan, coarse gr. congl. ss. Siltstone beds 20'-23'
33-39'	Siltstone-beds buff, tan, white, 36'-37.5' chocolate. Occasional carbon, most at 34'.
39-52'	Buff to tan coarse gr. ss.
52-60'	Tan, Med. gr. ss.
60-70'	Tan, cobble congl.

T.D. 70'

Hole No. M-9 Date Drilled May 11, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale	4 Scale
0-ft.	.03	
1-35	.02-.04	
36	.04	
36.5	.07	.01
37	.10	.03
37.5	.13	.03
38	.08	.03
38.5	.08	.03
39	.06	.02
39.5	.04	
40-66	.02-.04	

SAMPLE DATA

No Samples

LITHOLOGY

0-3'	Soil
3-9	Tan, coarse gr. ss. & congl.
9-22	Tan, coarse gr. ss. Few inches lt. gray siltstone at 10'. Much interbedded lt. gray silt 12'-14'.
22-23	Tan siltstone
23-25	Bright brown coarse gr. ss.
25-30	Light gray pebble congl.
30-30.5	Buff siltstone
30.5-32	Tan, coarse gr. ss.
32-34	Med. gray, fine gr. ss. some buff silt.
34-36	Lt. blue gray siltstone.
36-40	Interbedded med. gray ss. and blue gray silt.
40-43	Med. gray ss.
43-45	Blue gray siltstone
45-46.5	Tan sandy siltstone.
46.5-54	Tan to buff, med. gr. ss.
54-63	Tan, coarse gr. ss.
63-70	Cobble conglomerate

T.D. 70'

DRILL HOLE LOG

Hole M-10

Date Drilled May 9, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.04
1-69	.02-.05

SAMPLE DATA

No Samples

LITHOLOGY

0-2	Soil
2-6	Banded buff, tan, brown siltstone
6-8	Buff, fine gr. ss.
8-10	Tan, med. gr. ss.
10-12.5	Lt. gray, coarse gr. congl. ss.
12.5-18	Buff to tan, siltstone
18-22	Lt. gray fine gr. ss.
22-26	Tan, med. gr. ss.
26-32	Buff to tan coarse gr. ss.
32-34	Buff to tan siltstone
34-36	Tan, fine gr. ss.
36-60	Buff, coarse gr. ss.
60-70	Cobble conglomerate-buff

T.D. 70'

DRILL HOLE LOG

Hole No. M-12

Date Drilled May 10, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babble ft.	Counter Reading 5 Scale	No Samples	0-3'	Soil
0	.04		3-8	Buff med. gr. ss.
1-92.7	.02-.05		8-15	Tan, coarse gr. congl. ss.
			15-19	Buff, coarse gr. ss. Few inches buff silt at 16'.
Caved at 92.7'			19-20	Buff siltstone
			20-40	Buff, coarse gr. ss. Congl. in places.
			40-44	Intermixed light blue-gray silt and tan, med. gr. ss.
			44-46	Tan, med. gr. ss.
			46-47.5	Lt. gray siltstone.
			47.5-64	Buff, to tan, fine gr. silty ss.
			64-72	Buff to tan, med. gr. ss.
			72-75	Tan, coarse gr. ss.
			75-102	Cobble conglomerate.
			T.D. 102'	

REMARKS: Lost air return at 102' and hole caved badly.

DRILL HOLE LOG

Hole No. M-11

Date Drilled May 9, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale	Reading 4 Scale
0	.05	
1-3	.05-.06	
3.5	.10	
4	.12	
5	.11	
6	.10	
7	.07	
8-25	.06-.07	
26	.10	.08
27	.20	.11
27.5		.14
28	.56	.20
29	.50	.17
29.5	.30	.11
30	.14	.08
31	.10	
32	.08	
33	.10	
34-35	.09	
36	.22	
37	.11	
38	.08	
39-50	.06-.08	
50-67.5	.05	

SAMPLE

ft.	% U_3O_8
4'-6'=	.08
28'-29.5=	.137
36'-38'=	.048

2" carbon at 41.5= .11

LITHOLOGY

0-8'	Buff siltstone. Last 1' strong brown FeOx stain.
8-15	Buff coarse gr. ss.
15-16	Brown FeOx stained, coarse gr. ss.
16-19	Lt. gray coarse gr. ss.
19-26	Tan, coarse gr. ss. few inches buff siltstone at 24'.
26-28	Buff siltstone
28-29.5	Chocolate brown siltstone with considerable carbon.
29.5-33	Tan, coarse gr. congl. ss.
33-36	Buff, fine gr. silty ss.
36-37	Med gray silty ss.
37-40	Blue-gray siltstone
40-42	Tan, fine gr. ss. 2" carbon streak at 41.5'.
42-58	Buff to tan, fine gr. ss. 2" blue-gray siltstone at 43.5'. 1' coarse gr. sss at 50'.
58-68	Tan, coarse gr. ss.
68-70	Cobble congl. - tan.

T.D. 70'

DRILL HOLE LOG

Hole No. M-12-A

Date Drilled May 16, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.03
1-60	.02-.03
61-76	.02
77-79	.04
80-96	.00
100-102	.02
103-125	.00
126-131	.02
132	.04
132.5	.10
133	.06
134-139	.02
140	.00

SAMPLE DATA

130'-132'= .02 % U_3O_8

132'-134'= .02% U_3O_8

LITHOLOGY

0-2	Soil
2-6	Med. gr. ss. - buff.
6-8	Mixed buff ss. & cong.
8-16	Buff to tan cong. (Pbl.) & FeOx.
16-18	Brown to tan siltstone.
18-22	Lt. tan ss. med. gr.
22-26	Lt. tan ss. coarse gr.
26-42	Lt. tan to buff ss. med. to coarse.
42-44	Brown ss. Fine gr. blue silt at bottom (44').
44-75	Buff to tan ss. Blue clay parting at 48' (+ - 4").
75-90	Boulder cong. cont. wh. qtz. & blk. chert.
90-92	Tan ss. (med. gr.) & blue clay.
92-130	Lt. tan to buff ss. med. gr. Light color 122'-120'.
130-134	White ss. med. gr. blue clay parting.
134-140	Light gray ss. med. gr.

T.D. 140'

DRILL HOLE LOG

Hole No. M-13 Date Drilled May 9, 1956

PROBE DATA

Babble Counter

ft.	Reading 5Scale	4 Scale
0	.04	
1-63	.04-.07	
64	.07	.04
65	.12	.04
65.5	.18	
66	.22	.09
67	.16	.07
68	.11	.05
69	.10	
70	.08	
71	.06	
72-105	.04-.06	

Caved at 105'

SAMPLE DATA

66'-68'= .056 % U_3O_8

LITHOLOGY

0-4	Lt. gray, med. gr. ss.
4-8	Lt. gray & tan, coarse gr.ss.
8-17	Lt. gray, buff & tan siltstone.
17-30	Lt. gray to buff, coarse gr. ss.
30-33	Lt. gray congl.
33-44	Lt. gray, coarse gr., congl. ss.
44-58	Buff, coarse gr. ss. conglomeratic in places.
58-74	Blue-gray siltstone. 66-68=more dull gray.
74-92	Buff to tan, coarse gr. ss.
92-120	Cobble,conglomerate-buff to tan.

T.D. 120'

Hole No. M-14 Date Drilled May 11, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.03
1	.02
2	.05
3	.05
4	.03
5-67	.01-.03

SAMPLE DATA

No Samples

LITHOLOGY

0-2'	Soil
2-5	Buff, coarse gr. congl. ss.
5-10	Lt. gray, fine gr. ss.
10-12	Buff to tan, sandy siltstone.
12-16	Buff to lt. gray Med. gr. ss.
16-34	Green-gray, coarse gr. ss. Tan streaks
34-42	Buff, coarse gr. ss.
42-51	Lt. green-gray coarse gr. ss.
51-53	Interbedded tan ss. & lt. gray siltstone.
53-60	Lt. gray, med. gr. ss. few coarse gr.
60-62	Tan, coarse gr. ss.
62-68	Lt. gray to buff, coarse gr. ss.
68-70	Tan, very coarse gr., congl. ss.

T.D. 70'

DRILL HOLE LOG

Hole No. M-18

Date Drilled May 11, 1956

PROBE DATA		SAMPLE DATA	LITHOLOGY	
Babble Counter		No Samples	0-4'	Lt. brown, coarse gr. congl. ss.
ft.	Reading 5 Scale		4-12	Coarse gr. ss. 4-8'=Lt. gray 8-10=buff 10-12=brown
0	.03			
1-67.8	.01-.05		12-26	Blue-gray siltstone. 1st 2' duller gray.
			26-27	Dull gray siltstone.
			27-29	Brown, tan, lt. gray siltstone.
			29-32	Fine gr. ss. few inches lt. gray, then greenish
			32-54	Lt. gray to buff, coarse gr. ss. Greenish band at 41', tan ss. & gray silt 46' - 47'.
			54-55	Tan, coarse gr. ss.
			55-58	Med. gray, fine gr. ss.
			58-60	Blue gray siltstone.
			60-61	Med. gray ss.
			61-62	Bright brown, fine gr. ss.
			62-68	Lt. gray to buff, med. gr. ss.
			68-70	Lt. gray, coarse gr. ss.

T.D. 70'

DRILL HOLE LOG

Hole No. C-1 Date Drilled May 17, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.02
1-50	.01-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-1'	Soil
1-3	Tan, coarse gr. congl. ss.
3-12	Lt. gray, med. gr. ss. few pebble congl. beds
12-13.5	Lt. gray, coarse gr. congl.ss.
13.5-16	Bright tan, coarse gr. ss.
16-18.5	Dull brown, coarse gr. ss. with minor clays.
18.5-20	Dark blue-gray siltstone.
20-26.5	Med. greenish gray siltstone grading into brown siltstone.
26.5-28.5	Blue gray siltstone
28.5-32	Dull brown, coarse gr. ss with minor clay.
32-36	Charcoal gray siltstone.
36-36.5	Tan siltstone.
36.5-38	Blue gray siltstone.
38-44	Greenish gray siltstone. 42-43'=Brownish gray siltstone.
44-48	Dark greenish gray siltstone.
48-50	Dark blue gray siltstone.

T.D. 50'

Hole No. C-2 Date Drilled May 17, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.03
1-48.3	.02-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-2'	Soil
2-4	Buff, med. gr. ss.
4-6.5	White, med. gr. ss. Some qtz. & granite pebble
6.5-8	Bright, lit. brown, med. gr. ss.
8-16	Lt. gray to Lt. greenish gray muddy siltstone.
16-18	Lt. greenish gray sandy siltstone.
18-22	Greenish tan, silty ss.
22-27	Tan siltstone.
27-30	Lt. green silty ss.
30-36	Tan to greenish gray siltstone.
36-40	Dull, lt. greenish brown coarse gr.ss. with minor clay.
40-42.5	Dark green-gray coarse gr. ss. with clay.
42.5-44	Green siltstone.
44-46	Greenish brown siltstone.
46-48	Green siltstone.
48-50	Green gray med. to fine gr. ss.

T.D. 50'

DRILL HOLE LOG

Hole No. M-15

Date Drilled May 11, 1956

PROBE DATA

Babble Counter

ft.	Reading 5 Scale
0	.03
1-69.8	.02-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-1'	Soil
1-4	Buff, fine gr. ss.
4-6	Buff, med. gr. ss.
6-10	Tan, coarse gr. ss.
10-16	Lt. gray to buff, coarse gr. ss.
16-20.5	Tan, coarse gr. ss. At 16' large piece black silicified wood.
20.5-22.5	Lt. gray, fine gr. ss.
22.5-24	Gray siltstone & fine gr. ss.
24-26	Dark green-gray, silty, coarse gr. ss.
26-28	Blue-gray siltstone.
28-34	Dull, green-brown, med. gr. ss.
34-45	Lt. gray, med. gr. ss.
45-52	Lt. gray, coarse gr. ss.
52-53	Banded lt. gray & brown, fine gr. ss.
53-60	Lt. gray, fine gr. ss.
60-70	Lt. gray to buff, coarse gr. ss.

T.D. 70'

Hole No. M-16

Date Drilled May 11, 1956

PROBE DATA

ft.	Reading 5 Scale
0	.03
1-67.8	.02-.04

SAMPLE DATA

No Samples

LITHOLOGY

0-2.5	Soil
2.5-6	Lt. gray coarse gr. ss.
6-20	Tan, coarse gr. ss. 11'-12'=Lt. gray, med. gr. ss.
20-24	Tan & bright lt. brown, coarse gr. ss.
24-45	Lt. gray to buff, coarse gr. ss. Few beds pebble congl.
45-47	Tan, coarse gr. ss.
47-48	Lt. gray, med. gr. ss.
48-52	Buff to tan, coarse gr. ss.
52-54	Bright brown, coarse gr. ss.
54-55	Tan, coarse gr. ss.
55-60	Lt. gray to buff, coarse gr. ss.
60-70	Cobble conglomerate.

T.D. 70'

DRILL HOLE LOG

Hole No. M-17

Date Drilled May 11, 1956

PROBE DATA

Bable Counter

ft.	Reading 5 Scale
0	.02
1-68.6	.01-.04

SAMPLE DATA

No Samples

LITHOLOGY

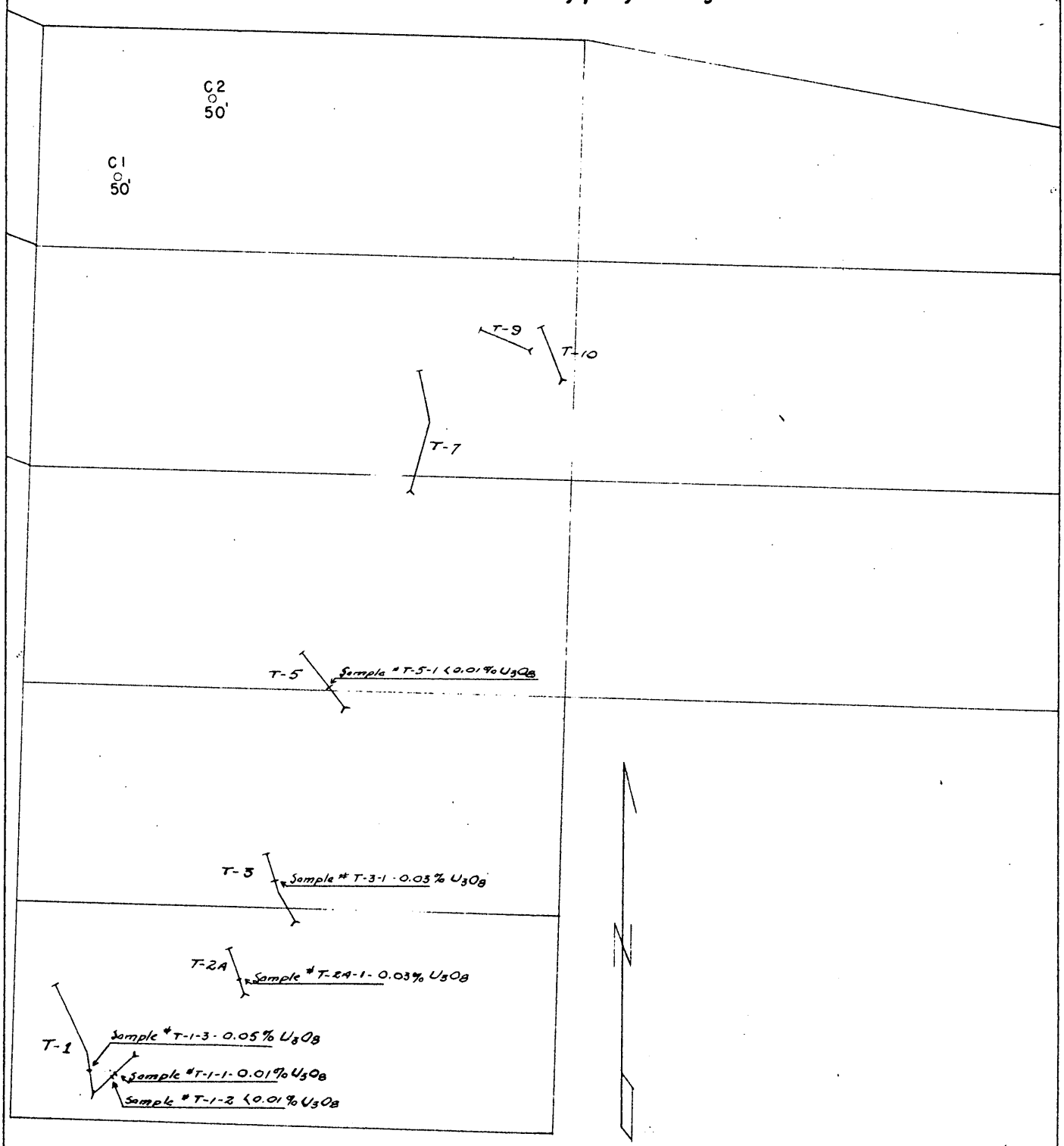
0-2'	Soil
2-17	Buff to tan siltstone
17-20	Med. gray, fine gr. ss.
20-25	Buff siltstone
25-27	Lt. gray to tan, med. gr. ss.
27-28.5	Lt. gray & brown siltstone.
28.5-36	Lt. gray to buff, coarse gr. congl. ss.
36-38	Lt. greenish gray, fine gr. ss.
38-40	Bright tan, coarse gr. ss.
40-52	Lt. gray to buff, coarse gr. ss.
52-53	Tan siltstone.
53-55.5	Lt. gray, coarse gr. ss. 6" dark brown. stain at 55' FeOx & MnO
55.5-63	Blue-gray siltstone with iron & manganese stained pebbles
63-63.5	Tan siltstone.
63.5-70	Light gray to tan, fine gr. ss.

T.D. 70'

CLYDE GROUP

Sec. 22, T 32 N, R 91 W

Fremont County, Wyoming



1" = 400'

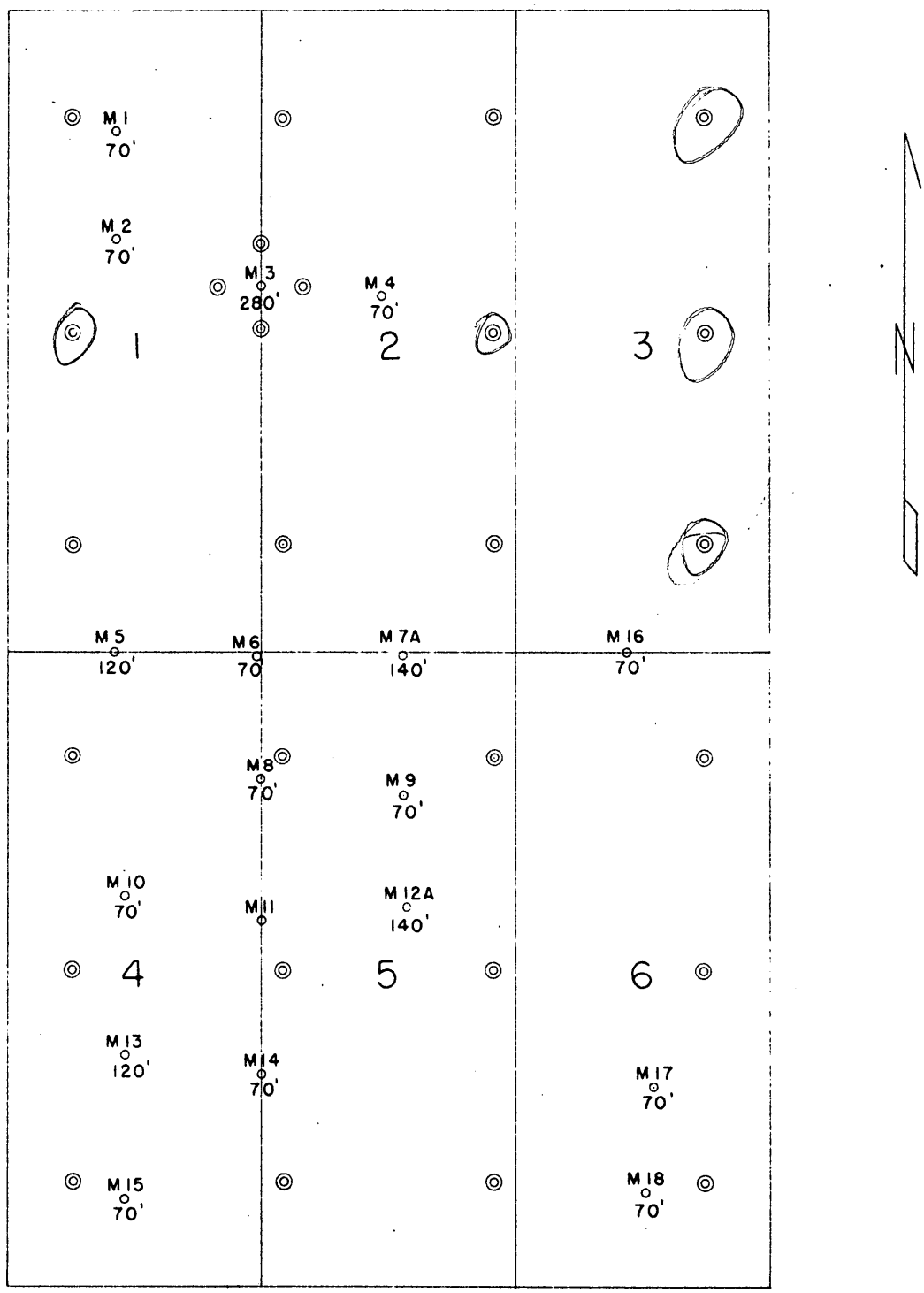
6/9/56

CHARLES M. COLEMAN and ASSOCIATES by RALPH H. THURSTON

MARSH GROUP

Secs. 32 & 33, T33N, R90W

Fremont County, Wyoming



Stage I holes drilled

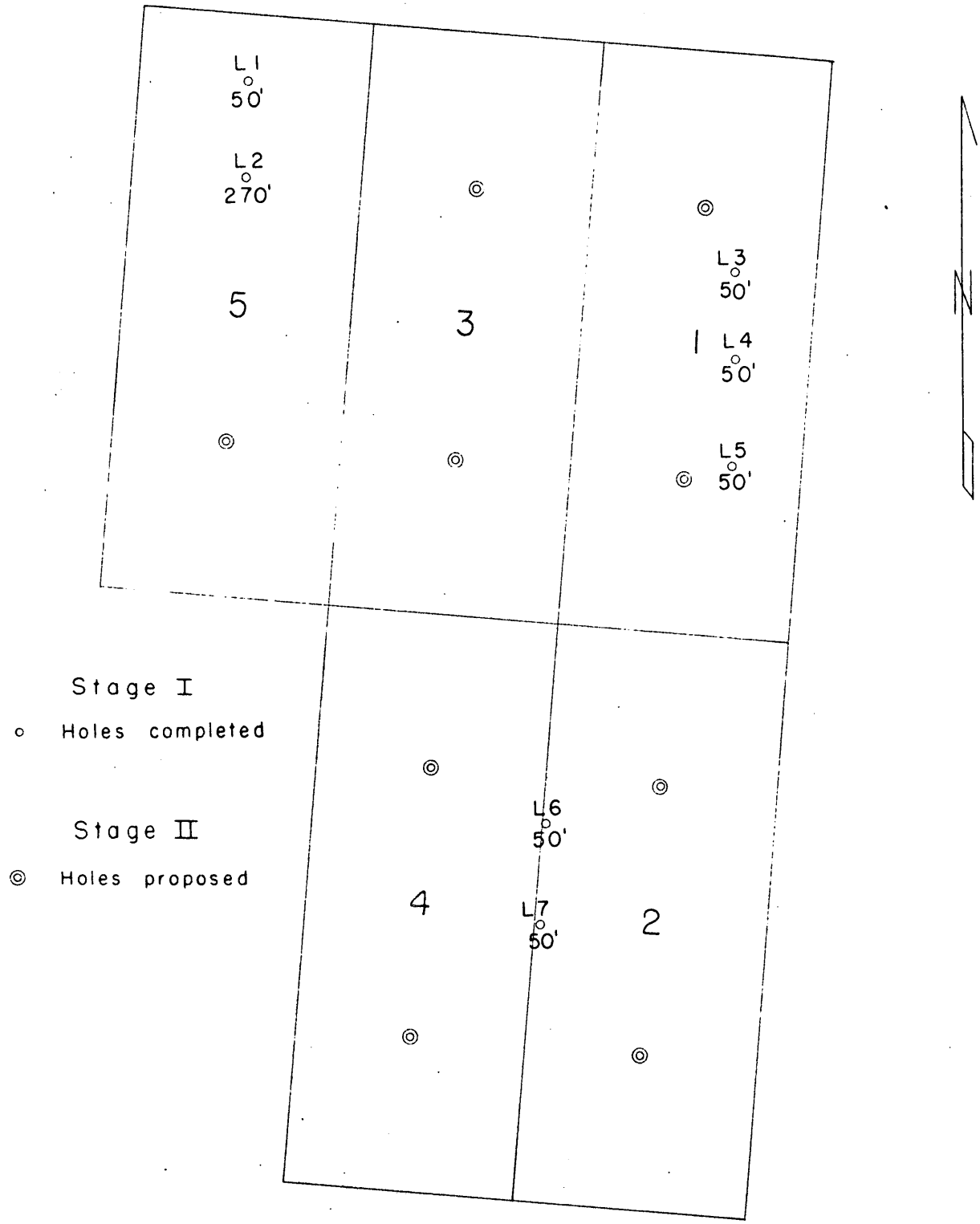
- Ore grade mineralization
- Mineralization below ore grade
- Not mineralized

Stage II holes proposed

1" = 400'

6/9/56

CHARLES M. COLEMAN and ASSOCIATES by RALPH H. THURSTON



LONGPORT GROUP

Sec. 34, T 33 N, R 90 W

Fremont County, Wyoming

1" = 400'

6/9/56

CHARLES M. COLEMAN and ASSOCIATES by RALPH H. THURSTON

Mr. G. Selfridge DMEA

RECEIVED
JUL 13 1956

DN 235 BUR MINES 7-12-56 11-26

CHAIRMAN, OPERATING COMMITTEE, DMEA

RE DOCKET DMEA 4047 CONTRACT IDM-E943, CHARLES M COLEMAN AND ASSOCIATES. BASED ON RESULTS FROM STAGE 1 HOLE DRILLED TO DEPTH OF 280 FEET AT COMPANY EXPENSE, OUR FIELD EXAMINERS NOW RECOMMEND STAGE 11 DRILLING TO DEPTH OF 280 FEET ON MARSH GROUP TO EXPLORE UPPER MEMBER OF WIND RIVER FORMATION. WILL REQUIRE AN AMENDMENT REMOVING RESTRICTION OF 120-FOOT DEPTH ON MARSH GROUP FOR STAGE 11 WORK. DO YOU DEEM SUCH AN AMENDMENT WITHIN OUR DELEGATECD AUTHORITY/Q/ PLEASE EXPEDITE ADVICE BY TELETYPE.

W M TRAVER

Denver, Colo.

JUL 12 3 11 PM '56

BUREAU OF MINES
MAIL ROOM
WASHINGTON D. C.

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

RECEIVED
JUN - 4 1956

224 New Customhouse
Denver 2, Colorado

May 31, 1956

Mr. Albert W. Dilling
Attorney in Fact
Charles M. Coleman and Associates
c/o Dilling and Dilling
Attorneys at Law
139 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium)
Contract Idm-E943
Charles M. Coleman and Associates (Clyde, Marsh and Longport Group of Claims), Fremont County, Wyoming

Dear Mr. Dilling:

Reference is made to your letter of May 29, 1956, wherein you state that it is your belief that the purpose of the contract can best be carried out through a revision of the work proposed for performance under Stage II.

Inasmuch as the performance of work under Stage II requires prior written approval of the Government, if information gained from the performance of work under Stage I of the contract indicates that the property can be better explored by a manner other than that presently outlined under Stage II, you may present the facts of the matter and your proposal for revision of the work for consideration by the Government.

Your proposal for a revision of the work to be performed under Stage II does not need to be submitted on a special form, but should consist of a narrative summary and analysis of the work performed under Stage I and a complete outline with estimate of costs of the work you propose for Stage II. Your request must be in sextuplicate, each copy complete with a map or maps showing the extent and results of work performed under Stage I, the location and extent of the work you propose for performance under Stage II. Also include any other data which will be of value to the Government in evaluating the results of the work performed under Stage I and the merits of the work proposed for Stage II.

Very truly yours,

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

JWT:prl
cc: Chairman, Op. Comm. (2)
Harshman
Shaw
Townsend
} w/copy of Operator's Letter

Corres. file
Chron.

DILLING AND DILLING
ATTORNEYS AT LAW
139 NORTH CLARK STREET
CHICAGO 2

ALBERT W DILLING
KIRKPATRICK W DILLING

TELEPHONE
CENTRAL 6 8417

DMEA
MAY 31 1956
BUREAU OF MINES
Denver, Colorado

May 29, 1956

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

Re: Contract Idm-E943

Dear Sir:

Mr. Ralph H. Thurston, the consulting geologist on the above project, stated last evening on the telephone that the purposes of the contract can best be carried out through a revision of the proposed stage II, due to information gained in connection with the 1st stage.

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

MAY 14 1956

Memorandum

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

From: Associate Solicitor, Division of Mineral Resources

Subject: Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
Fremont County, Wyoming

Pursuant to your request, we have reviewed the signed contract, power of attorney and subordination agreement, transmitted with your memorandum of May 7, and find them to be in acceptable legal form.

As your office was previously advised, Mr. Dilling, in a telephone call to Mr. Indritz, had stated that the six persons signing the contract are not general partners but are associated in this contract pursuant to agreements, which limit some of their responsibilities and rights as between themselves. Mr. Dilling further stated that they had not heretofore labeled themselves as "partners," with respect to other matters in which they were then involved, and wished to avoid any reference that might designate them as general partners. It may be noted that in par. 1 of the application the applicant is named as Charles M. Coleman & Associates.... a limited joint venture.... Mr. Indritz advised Mr. Dilling that it was immaterial insofar as the DMEA contract is concerned whether they were labeled as partners or not; each signer would be fully liable under the contract, and the act of any of them would be binding on the others. Mr. Dilling so understood and agreed thereto.

Accordingly, Mr. Dilling was informed that he could, if he wished, delete the word "partner" from the contract. Mr. Dilling also advised that a power of attorney would be forwarded designating him to act on behalf of all six signers. Mr. Dilling agreed to write Mr. Traver accordingly.

Robert P. Dwyer

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

RECEIVED
MAY 10 1956

224 New Customhouse
Denver 2, Colorado

May 7, 1956

Mr. Albert W. Billing
Attorney in Fact
Charles M. Coleman and Associates
c/o Billing and Billing
Attorneys at Law
139 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium),
Contract Idm-2943
Charles M. Coleman and
Associates (Clyde, Marsh and
Longport Group of Claims),
Fremont County, Wyoming

Dear Mr. Billing:

Consistent with the provisions of Contract Idm-2943, this constitutes the Government's approval of Mr. Ralph H. Thurston, Consulting Geologist, of Thurston and Haley, Lander, Wyoming, to act as the supervising geologist to direct operations under Contract Idm-2943.

Very truly yours,

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

JWT:prl
cc: Chairman, Oper. Comm. (2) } w/copy of Operator's letter
Finance Office, Region III
Amendment file
Harshman } w/copy of Operator's letter
Shaw
Townsend
Corres. file
Chron.

DILLING AND DILLING
ATTORNEYS AT LAW
139 NORTH CLARK STREET
CHICAGO 2

ALBERT W DILLING
KIRKPATRICK W DILLING

TELEPHONE
CENTRAL 6-8417

DMEA
Date Rec'd

MAY 7 1956

BUREAU OF MINES
Denver, Colorado

May 5, 1956

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

Re: Docket DMEA 4047 (Uranium)
Contract Idm-E943
Clyde, Marsh and Longport Groups
of Claims, Fremont County, Wyo.

Dear Sir:

Your letter and enclosures of May 2, 1956, have been received.

With regard to the above project, please be advised that work has been commenced this date, to-wit, May 5, 1956.

The work in connection with the above project is proposed to be directed by Mr. Ralph H. Thurston, consulting geologist of Thurston & Haley, Lander, Wyoming.

You will note that Mr. Thurston's qualifications and background are set forth in Addendum Sheet 9 of the original application filed in connection with the above project, wherein it was also stated that Mr. Thurston would direct the project. Mr. Thurston also rendered the report concerning the properties in question, which accompanied said application, and accompanied Mr. Bergendahl of USGS on the inspection of the properties made in December of last year.

I trust that the above will cover the matters set forth in the last two paragraphs of your letter of May 2nd.

My son, Kirk, and Messrs. Deimerly and Jones enjoyed meeting you very much the other day in Denver, and they appreciated the information you gave them on the proper way to proceed in connection with the project.

Yours very truly,

Albert W. Dilling

AWD: hs
Copy to Mr. John F. Shaw

700

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

FILE COPY
Surname:

May 7, 1956

Memorandum

To: Associate Solicitor, Division of Mineral Resources

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

Subject: Docket No. DMEA-4047 (Uranium)
Contract No. Idm-E943
Charles M. Coleman and Associates
Clyde, Marsh, and Longport Groups of Claims
Fremont County, Wyoming

We are in receipt of the subject executed contract on which the word "Partner" has been blocked out by the Operator. Mr. Indrits recently advised Mr. Knouse, of this office, that Mr. Albert W. Dilling had telephoned to him and requested permission to strike out this word, and he approved the deletion.

In addition, there was received a "Power of Attorney" from the signers of the contract authorizing Mr. Albert W. Dilling to act as their agent in all matters connected with the subject contract.

Please review the above referred to documents and indicate either your approval or disapproval.

Ernest Wm. Ellis

Ernest Wm. Ellis,

FLKnouse/izm 5-7-56
cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File

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

224 New Customhouse
Denver 2, Colorado

May 2, 1956

RECEIVED
MAY 4 - 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4047 (Uranium), Contract Idm-E943, Charles M. Coleman, J. H. Deimerly, Albert W. Dilling, Leonard D. Carmichael, Kirkpatrick W. Dilling, and Mabel E. Carmichael (Clyde, Marsh, and Longport Groups of Claims), Fremont County, Wyoming

Enclosed are the Government's, Division, and Docket copies of Exploration Project Contract Idm-E943, which were forwarded by your letter of April 11, 1956, for signature by the Applicants.

Copies of two Subordination Agreements of Messrs. Arvin L. Marshack, Don Donder, Robert N. Utter, and Charles Lesnick are attached to each copy of the contract, as instructed in your letter of April 11.

In addition, a copy of a Power of Attorney is attached to each copy of the contract, which has been executed by five of the parties to the contract designating the sixth party, Albert W. Dilling, as the lawful attorney to conduct affairs with the Government in conjunction with the administration of the contract.

Also enclosed are two copies of a letter from this office by which the "Operator's Copy", MF-104 forms, and instructions relative to reporting on work performed under the contract were forwarded to the Attorney in Fact.

In addition to all the foregoing material, we are enclosing three copies of a letter from A. W. Dilling, dated May 1, 1956, whereby he returned the executed copies of the contract to this office, and wherein he advises of the deleting of the word "partners" from all copies of the contract.

W. M. Traver

W. M. Traver

Enclosures

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

[illegible] New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

May 2, 1956

RECEIVED
MAY 4 - 1956

Mr. Albert W. Billing
c/o Billing and Billing
Attorneys at Law
139 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium)
Contract DMe-EP43
Charles M. Coleman,
J. H. Bainerly, Albert W.
Billing, Leonard B. Carmichael,
Kirkpatrick W. Billing, and
Mabel B. Carmichael
(Clyde, Marsh, and Longport
Groups of Claims), Fremont Co.,
Wyoming

Dear Mr. Billing:

Enclosed herewith is your copy of Exploration Project Contract DMe-EP43, Docket DMEA 4047.

Also enclosed are six copies of form MF-104, "Operator's Monthly Report and Voucher," and six copies of form MF-104A, "Operator's Each Cost and Progress Report." At the end of the first calendar month after work is commenced, and monthly thereafter, you are required to submit the original and four copies of each form to Mr. John F. Shea, U. S. Bureau of Mines, Room 137, Building 20, Denver Federal Center, Denver 2, Colorado. The extra copy is for your records.

Forms MF-104 and MF-104A are to be combined into five sets of one of each form, each set of the combined forms is to be accompanied by a map or sketch showing the location and extent of work performed; and a signed narrative report which describes the work performed, conditions encountered, and results of the work. The monthly accounting report will not be processed for reimbursement to you unless it is accompanied by a signed narrative report and other required or pertinent [illegible]. Additional copies of forms MF-104 and MF-104A will be forwarded to you each month on receipt of your report for the prior month.

For your information and in reply to many questions that have been asked, after forms MF-104 and MF-104A are received, an engineer will check progress and approve your accounts, after which they will be sent to the Regional Office, Region III, U. S. Bureau of Mines, 224 New Customhouse, Denver 2, Colorado, for auditing and vouchering. If the report is in order, a check will be issued by the Treasury Department for the Government's portion of the costs. If you have any difficulty in completing these forms and the reports, please call on Mr. Shaw or this office for assistance.

Under the provisions of the contract, the unit cost established under Category (1) for each item of work for both Stages are maximum unit costs which cannot be exceeded. Reimbursement to you will be on the basis of the actual cost of performing each item of work and the charges must be documented by supplying a certified copy of the billing from the subcontractor for his performance of the work. The allowable costs under all other categories are the actual costs incurred up to and not to exceed the unit cost established, which are maximum under the provisions of Article 6 of the contract form. The original of form MF-104 must be accompanied by documentation of all charges in conformance with the instructions in the next to the last paragraph on the reverse side of form MF-104.

In the event you desire to perform the work under Category (1) on company account, instead of subcontracting it as provided in the contract, it will be necessary that you obtain written approval from this office prior to commencing any of the work.

Your attention is directed to the provision in Exhibit "A" that performance of the work under Stage II is subject to the prior written approval of the Government.

Your requests to this office for work approval, changes in the contract, or any other communication pertaining to operations under the contract, must be in writing, of which please supply the original and five copies, each copy complete with maps or other pertinent data.

The location of the work to be performed under Stage I is indicated on the map, "Figure 3," attached to the contract. Should conditions encountered necessitate any appreciable change in the location of any of the work, approval of this office for the change must be secured prior to performance of the work. Otherwise, the work may not be acceptable for reimbursement to you under the terms of the contract.

No oral statement of any person shall be construed to modify or change the terms of the contract. Field representatives of the Government are not authorized to approve any changes in the work program or contract provisions. Such approval can only be given by the Washington Office, NSRA, or by the NSRA Field Team, Region III.

It is a regulation that reimbursement for the cost of work accomplished prior to the date of the contract will not be allowed. It is a requirement and imperative that you notify this office in writing the date work actually commences under the contract, with a copy of your letter to Mr. Shaw.

Your attention is directed to the last paragraph under the "General Provisions" section of Exhibit "A" which stipulates that the project work shall be directed by a geologist approved by the Government. In that respect, your prompt attention should be given the matter of submitting for the Government's consideration the name and qualifications of the geologist whom you propose to direct the work.

Very truly yours,

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

Enclosures

JWT:prl
cc: Chairman, Oper. Comm. (2)
Finance Office, Region III
Amendment file
Harshman
Shaw
Townsend
Corres. file
Chron.

DILLING AND DILLING
ATTORNEYS AT LAW
139 NORTH CLARK STREET
CHICAGO 2

ALBERT W. DILLING
KIRKPATRICK W. DILLING

TELEPHONE
CENTRAL 6-8417

DMEA
Date Rec'd.
MAY 2 1956
BUREAU OF MINES
Denver, Colorado

May 1, 1956

RECEIVED
MAY 4 - 1956

Honorable W. M. Traver
Executive Officer, DMEA
Field Team, Region III
United States Department of the Interior
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

Re: Docket DMEA 4047 (Uranium), Clyde, Marsh, and Longport claim groups, Fremont County, Wyoming
Contract Idm-E943

Dear Sir:

Herewith transmitted are the five copies of the above contract forwarded to us with your letter dated April 17, 1956, each copy having been executed by the six persons involved.

Also herewith transmitted are an original and five copies, each executed, of a power of attorney designating the undersigned to act for the persons involved in regard to said contract.

You will note that the word "partner" has been eliminated on the copies of the contract, and in connection with the power of attorney, since the six persons in question are not, and have not been, partners.

On April 20th, Mr. Indritz, Interior Department, Washington, D. C., who drew up the contract, approved the elimination of words denoting a partnership, in a telephone conversation had with him on that date.

Very truly yours,

Albert W. Dilling

Albert W. Dilling

AWD: hs

DILLING AND DILLING
ATTORNEYS AT LAW
139 NORTH CLARK STREET
CHICAGO 2

ALBERT W. DILLING
KIRKPATRICK W. DILLING

TELEPHONE
CENTRAL 8 8417

APR 16 1956
BUREAU OF MINES
Denver, Colorado

April 13, 1956

Honorable W. M. Traver
Executive Officer, DMEA
Field Team, Region III
United States Department of the Interior
224 New Customhouse
Denver 2, Colorado

Re: Docket DMEA 4047 (Uranium), Clyde, Marsh, and Longport claim groups, Fremont County, Wyoming.

Dear Sir:

Enclosed, in sextuplicate, are subordination agreements signed by the owners of overriding royalties in connection with the above claims.

Mr. Irving L. Marshack owns the entire royalty on the Clyde and Marsh groups of claims and one-fourth of the royalty on the Longport group. Messrs. Don Londer, Robert W. Utter, and Charles Lesnick each own one-fourth of the royalty on the Longport group.

We regret the delay in getting these additional papers to you. The delay was due to circumstances entirely beyond our control.

There was some question in our minds about where these papers should be sent in view of the delay. So the writer telephoned Mr. Indrits of your Washington office to inquire about this, and he advised that they be sent to your office.

Very truly yours,

Albert W. Dilling

Albert W. Dilling

AWD:hs
Enclosures

4-23-56

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

APR 23 1956

April 19, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Field Team, Region III

Subject: Docket DMEA 4047 (Uranium) Charles M. Coleman and Associates, (Clyde, Marsh, and Longport groups of claims), Fremont County, Wyoming

Enclosed are the original and three copies of assay results on selenium samples which were collected by the examiners on their field examination of the subject property.

The Report of Examination was transmitted to you February 24, 1956.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

IN REPLY REFER TO:

RECEIVED
APR 23 1956
DMEA
Date Rec'd.

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

APR 18 1956
BUREAU OF MINES
Denver, Colo.

April 17, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Harshman EMH
J. F. Shaw JFS

From: M. H. Bergendahl

Subject: Selenium assays of samples from Shoni Uranium Corporation, DMEA Docket 3996, and Coleman & Associates, DMEA Docket 4047, Fremont and Natrona Counties, Wyoming

Selenium analyses of samples collected during field investigation of Shoni Uranium Corporation (DMEA 3996) and Charles M. Coleman and Associates (DMEA 4047) were made at the Denver Laboratory, U. S. Geological Survey.

The analyses, tabulated below, are the three highest from the eight samples submitted:

Location	Se (in parts per million)
Discovery pit on Jackneese #9 (SW 1/4 sec. 22, T. 33 N., R. 89 W., Natrona County, Wyoming)	25
Discovery pit on Jackneese #2 (SE 1/4, sec. 21, T. 33 N., R. 89 W., Fremont County, Wyoming)	12
Discovery pit on Longport #1 (NE 1/4 sec. 34, T. 33 N., R. 90 W., Fremont County, Wyoming)	12

The amounts of selenium in the samples taken from the two properties are insignificant.

E. N. Harshman
for M. H. Bergendahl

4-19-56

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

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

April 17, 1956

Mr. Albert W. Billing
c/o Billing and Billing
Attorneys at Law
139 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium),
Charles H. Coleman, J. H. Deimerly,
Albert W. Billing, Leonard D.
Carmichael, Kirkpatrick W. Billing,
and Mabel E. Carmichael, Partners;
(Clyde, Marsh, and Longport Groups
of Claims), Fremont County, Wyoming;
Proposed Exploration Project
Contract Idm-2943

Dear Mr. Billing:

Enclosed are the Government's, Division, Docket, Finance Office, and Field Team copies of proposed Exploration Project Contract Idm-2943, which has been prepared to authorize a modified program of exploration work under the Defense Minerals Exploration Administration program.

If the contract is satisfactory to you and your associates, all copies are to be signed by all six partners as indicated and all copies promptly returned to this office. Upon return of the properly executed copies of the contract, the "Operator's Copy" will be forwarded to you, together with forms and instructions relative to reporting on work performed under the contract.

Inasmuch as the contract has been prepared in favor of all six partners, it would eliminate the necessity that all six partners sign all correspondence and any other instruments pertaining to the contract if one partner or some certain person were designated by power of attorney to act as the agent of the partnership to conduct all affairs under the DMEA contract.

For that purpose, a power of attorney containing the following recitations, if properly executed by all parties concerned, would be acceptable:

". . . .to act as the agent of said partnership in all matters connected with the United States Department of the Interior, Defense Minerals Exploration Administration, Contract Idm-8943, Docket No. DMEA 4047, and in behalf of said partnership to submit to the Government all necessary reports and information required under said Contract; and said Agent is authorized to receive individually, and to receipt for, any monies that are now or may hereafter become due to said partnership by reason of said Contract No. Idm-8943.

"Executed this _____ day of _____, 1956.

_____ _____

_____ _____

_____ _____"

If the power of attorney is executed, please supply this office with the original and five properly executed copies.

Very truly yours,

W. M. TRAVER

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

Enclosures

JWT:prl
cc: Chairman, Oper. Comm. (2)
Harshman
Shaw
Townsend
Corres. file
Chron.

Surname copy

F. L. Knouse
Chambers
Selfridge
Knouse
Wittenberg

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

Mr. W. M. Trawer
Executive Officer
DMEA Field Team, Region III
7th New Customhouse Building
Denver 2, Colorado

APR 11 1956

Re: Docket No. DMEA-1047 (Uranium)
Charles M. Coleman and Associates
Clyde, March, and Longpert Groups of claims
Fremont County, Wyoming

Dear Mr. Trawert:

Enclosed for execution are the original and five copies, with two extra copies of Exhibit "A," of a contract designed to explore the subject property, signed by the Administrator for the Government. In addition to the long-form contract, this incomplete document consists of Annex I, two pages; Exhibit "A," 5 pages; and two maps, Figures 2 and 3. Before the contract is executed, to complete this document please obtain and attach to each copy the Subordination Agreement of Messrs. Irving L. Marshack, Don Lender, Robert H. Utter, and Charles Lesnick. Also enclosed are copies of memoranda, dated March 1 and 7, 1956, from Mr. W. P. Williams, USGS, and Mr. John E. Crawford, USBM, respectively.

If the terms and conditions of this proposed contract meet with your approval and the Operator's, insert in Article 3 the date upon which the work is to be started. Then have the original and all copies signed by the six partners and make the usual distribution of the document.

In the event that any part of this proposed contract does not meet with your approval or the Operator's 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

FIKnouse/gla 4-3-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Knouse

P.S. Legal Division requires that all Partners sign the Contract, therefore, the Consents to Lien you obtained were not used or required.

Enclosures

APPROVED:

/s/ J. H. Pennington
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

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

MAR 30 1956

Memorandum

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

From: Associate Solicitor, Division of Mineral Resources

Subject: Docket No. DMEA-4047 (Uranium)
Charles M. Coleman, et al.

Pursuant to your request, we have prepared the attached draft of Contract.

The Subordination Agreements of Messrs. Marshack, Londer, Utter and Lesnick should be obtained before the Contract is executed.

The Consent to Lien is unnecessary and may be disregarded inasmuch as all landowners are parties to the Contract.

Robert P. Dwyer

Robert P. Dwyer

DRAFT
3/12/56
FLKnouse/gla

DOCKET COPY

MF-200
(Revised June 1954)

Docket No. DMEA 4047

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] Charles M. Coleman and Associates, a limited joint venture, whose mailing address is 139 N. Clark Street, Chicago, Illinois, 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, Figure 2 and Figure 3; one ~~Exhibit~~ Consent to Lien and one Subordination Agreement.

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

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

(b) The Operator represents and undertakes that:

(1) The Operator is the[4] owner of[5] 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] three deeds, [7] recorded in Book 112, pages 178, 180 & 183, 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: 6 percent overriding royalty interest

(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: Consent to Lien, dated March 6, 1956, and

(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, 1956 (unless the Operator's obligation to prosecute the work is terminated—see Article 10) shall either have completed the work or shall have incurred allowable costs (see Article 6) in a sum not less than the estimated total allowable cost set forth in Exhibit "A."

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

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

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

ARTICLE 5. *Contribution by the Government.*—The estimated total allowable cost of the project, set forth in Exhibit "A," is the sum of $9,492.00. The Government shall contribute 75 percent of the allowable costs as they are incurred in a total sum not in excess of $7,119.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last

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

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

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

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

CATEGORY (2)—PERSONAL SERVICES.

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

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

Subcategory (c)—Labor.

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

CATEGORY (4)—OPERATING EQUIPMENT.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.*—

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By .....

CHARLES M. COLEMAN AND ASSOCIATES

.....
(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
3/12/56
FLKnouse/gla

EXPLORATION PROJECT CONTRACT
CHARLES W. COLEMAN AND ASSOCIATES
DOCKET NO. DMSA-447

ANNEX I

The land referred to in Article 2 of the contract form consists of 23 unpatented mining claims situated as follows:

Clyde Group of claims in secs. 15, 22, 23, and 24, T. 32 N., R. 91 W.; Marsh Group of claims in secs. 32 and 33, T. 33 N., R. 90 W.; and the Longport Group of claims in sec. 27 and 34, T. 33 N., R. 90 W., 6th Principal Base and Meridian, Fremont County, Wyoming.

These claims are recorded in the Fremont County Recorder's Office at Lander, Wyoming, as follows:

Claim	Book No.	Page No.
Clyde No. 7	78	474
" " 8	78	475
" " 9	78	476
" " 10	78	477
" " 11	78	478
" " 12	78	479
" " 13	78	480
" " 14	78	481
" " 15	78	482
" " 16	78	483
" " 17	86	278
" " 18	86	279

Claim	Book No.	Page No.
Marsh No. 1	59	418
" " 2	59	419
" " 3	59	420
" " 4	59	421
" " 5	59	422
" " 6	59	423
Longport No. 1	59	413
" " 2	59	414
" " 3	59	415
" " 4	"	416
" " 5	59	417

The location of these claims is shown on the attached map entitled, "Fig. 2 Exploration Map Showing Geology, Locations of Clyde, Longport, Marsh, and Prince Claim Groups, Charles M. Coleman and Associates, Fremont Co., Wyo. DMEA 4047."

DRAFT
3/12/56
FLKnouse/gla

EXPLORATION PROJECT CONTRACT
CHARLES M. COLEMAN AND ASSOCIATES
DOCKET NO. DMEA-4047

EXHIBIT "A"

GENERAL PROVISIONS

Description of the Work

The purpose of the work is to explore for uranium-bearing ore in areas of radiometric anomaly by trenching ~~on the surface~~ and drilling from the surface.

All holes shall be drilled with a rotary drill with a non-coring bit, and the trenches shall be excavated with a Model D-7 Caterpillar tractor with dozer, or an equivalent size unit.

The drilling shall be performed in two stages. Stage I drilling shall be started first, and if, in the opinion of the Government, expressed in writing, and the results of Stage I warrant, a part or all of Stage II shall be commenced and prosecuted, either after completion of Stage I or concurrently, as indicated by the Government.

The above Model D-7 tractor shall be used to prepare access roads to drill-hole sites and also drill sites.

Insert (*)

Stage I

Stage I consists of 27 holes aggregating not more than 1960 feet of hole and 13 trenches aggregating not more than 4100 feet in length. The location and depth that each hole shall be drilled, and the approximate location and extent that each trench shall be excavated, are shown on the attached map entitled "Figure 3 - Location Map of Stage I Exploration, Clyde, Marsh and Longport Claims, Charles M. Coleman and Associates, Fremont County, Wyo. DMEA 4047."

Stage II

Stage II consists of drilling an aggregate of not more than 2500 feet of holes at locations that have the prior approval of the Government. These holes shall be spaced as follows:

1. Not closer than 100 feet back from the edge of the promontory where ore-grade mineralization is exposed by Stage I trenching;
2. Not more than four holes spaced not closer than 100 feet from any Stage I hole that penetrated ore-grade mineralization; and
3. None of the above holes shall be drilled closer than 100 feet to the outside boundary of the property.

The maximum depth that holes shall be drilled is as follows:

Clyde Claim Group	120 feet
Marsh " "	120 feet
Longport " "	50 feet

(+) insert ahead

~~General Provisions~~

The diameter of all drill holes, location and depth and extent of all trenching, method of all sampling and sample determinations and method of recovering drill cuttings are subject to the approval of the Government.

All drill cuttings shall be recovered by a Duclone or similar type dust collector at drilling intervals, subject to the approval of the Government. All samples or drill cuttings, except the ones containing visible mineralization, are to be labeled and stored pending Government

examination, at which time they may be discarded if approved by the Government. All radioactive drill cuttings and trench exposures which show visible uranium mineralization shall be sampled and split into two halves. One-half of the sample shall be analyzed chemically for U_3O_8 and the other half shall be furnished to the Government. Not more than 100 samples shall be analyzed chemically for Stage I and not more than 100 samples analyzed chemically for Stage II.

All drill holes shall be probed radiometrically and four copies of each log furnished to the Government.

The project shall be directed by a geologist approved by the Government, who shall be employed on a full-time basis, and he shall do the required surveying, mapping, sampling, and prepare all reports required under this contract.

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

Stage I

Category (1) Independent Contracts

92 hours of actual tractor, with dozer, operation time, including operator and all necessary costs @ $13.00/hr.	$ 1,196.00	
1,960 feet of drilling @ $1.00/ft.	1,960.00	
Total Category (1)		$ 3,156.00

Category (2) Personal Services

Subcategory (a) and (b) Supervision and Technical Services

1 Supervising Geologist @ $600/mo., 1 month	$ 600.00
1 Sampler @ $1.75/hr. plus time and one-half rate over 40 hrs./week worked	392.00

Category (2) Personal Services (continued)

Subcategory (c) Labor

None	-	
Total Category (2)		$ 992.00

Category (3) Operating Materials and Supplies

Sample containers		3.00

Category (4) Operating Equipment

Subcategory (a) Rental

1 Pickup truck or automobile @ $0.10* per mile, 700 miles		70.00

Subcategories (b) and (c) Purchases and Depreciation

None

Category (5) Rehabilitation and Repairs

None

Category (6) New Buildings, Improvements, Installations

None

Category (7) Miscellaneous

Radiometric hole logging - 1,960 feet @ $0.10*/ft.	$ 196.00	
Payroll taxes and insurance	28.00	
Accounting	42.00	
100 chemical analyses @ $5.00* each/sample including freight and/or postage	500.00	
Total Category (7)		766.00
Total Estimated Cost of Stage I		$ 4,987.00

Stage II

Category (1) Independent Contracts

22 hours of actual tractor, with dozer, operating time, including operator and all necessary costs, @ $13.00/hr. $ 286.00

2,500 feet of drilling @ $1.00/ft. 2,500.00

Total Category (1) $ 2,786.00

Category (2) Personal Services

Subcategories (a) and (b) Supervision and Technical Services

1 Supervising Geologist @ $600.00/mo., 5/6 month 500.00

1 Sampler @ $1.75/hr., plus time and one-half rate over 40 hours/week worked 325.00

Subcategory (c) Labor

None -

Total Category (2) 825.00

Category (3) Operating Materials and Supplies

Sample containers 3.00

Category (4) Operating Equipment

Subcategory (a) Rental

1 Pickup truck or automobile @ $0.10* /mile - 700 miles 70.00

Subcategories (b) and (c) Purchases and Depreciation

None

Category (5) Rehabilitation and Repairs

None

Category (6) New Buildings, Improvements, Installations

None

Category (7) Miscellaneous

Radiometric hole logging,		
2,500 feet @ $0.10*/ft.	$ 250.00	
Payroll taxes and insurance	26.00	
Accounting	42.00	
100 chemical analyses @ $5.00* each/sample,		
including postage and/or freight	500.00	
Total Category (7)		$ 820.00
Total Estimated Cost Stage II		$ 4,504.00
Total Estimated Cost of Project (rounded to)		$ 9,492.00
Government Participation @ 75%		$ 7,119.00

3/21/56

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

RECEIVED
MAR 21 1956

March 16, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4047 (Uranium), Coleman and Associates, Clyde, Marsh, Longport, and Prince group of claims, Fremont County, Wyoming

In reply to your teletype of March 13, 1956 on the subject docket enclosed are the original and three copies of a memorandum from M. H. Bergendahl, USGS, relative to the checking of the radioactive anomalies by the field examiners. You are also referred to our teletype of March 13, 1956.

W. M. Traver

W. M. Traver

Enclosures

IN REPLY REFER TO:

DMEA
Date Rec'd.
MAR 16 1956
BUREAU OF MINES
Denver, Colorado

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

March 15, 1956

RECEIVED
MAR 21 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Harshman

From: M. H. Bergendahl

Subject: DMEA Docket 4047 (Uranium), Coleman and Associates, Clyde, Marsh, Longport, and Prince Groups of Claims, Fremont County, Wyoming

This is in response to your request of March 13, 1956, regarding the thoroughness of the field examination of the Coleman and Associates claims.

These claims were examined on December 8 and 9, 1955; a total of 1-1/2 days were expended on the investigation. All anomalies reported by the applicant were checked with a scintillometer by the field examiner and, with the exception of anomalies on the Prince claim group, the areal extent and intensities were found to be in substantial agreement with the information appearing on the isorad maps contained in the applicant's brochure. The anomalies on the Prince group did not exceed 0.03 whereas the applicant's maximum intensities were as high as 0.042 MR/hr.

M. H. Bergendahl

M. H. Bergendahl

Knouse: Re: DMEA-4047

4-13-56

Mr. Indritz talked to Dilling in Chicago and the latter has obtained Subordination Agreements and has forwarded same to Traver in Denver.

Plan in file
J.V.K.
4-16-56

Irene

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

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Applicant _____

Docket No. _____

Commodity _____

Amount $ _____

Please expedite consideration of the application with particular reference to the points raised in the attached "Review".

Sincerely yours,

Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:

_____
Member, Bureau of Mines

_____
Member, Geological Survey

13759

Chairman, Opr. Comm. D. M.

RECEIVED

MAR 14 1956

D DN 235 BUR MINES 3-13-56 4-25

CHAIRMAN, OPERATING COMMITTEE, DMEA

REURTT 3-13-56 DMEA-4047 CHARLES M COLEMAN AND ASSOCIATES. GEOLOGIST SPENT DAY AND HALF CHECKING RADIOACTIVE ANOMALIES. RESULTS ESSENTIALLY AS INDICATED BY APPLICANT. SUPPLEMENTAL MEMORANDUM DESCRIBIG RESULTS IN DETAIL FOLLOWS.

W M TRAVR TRAVER

Denver, Colo.

MAR 14 9 09 AM '56
BUREAU OF MINES
MAIL ROOM
WASHINGTON D.C.

700

FILE COPY

Surname:

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

MAR 13 1956 DEPARTMENT OF THE INTERIOR

DMEA

14X4401(01) Revolving Fund,
Defense Production Act, Int.
(Allocated Working Fund to the Office of the Secy.)

T E L E T Y P E

W. H. TRAVER, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REFERENCE FIELD TEAM REPORT, DMEA-4047 CHARLES H. COLEMAN AND ASSOCIATES. IT IS NOT CLEAR IF RADIOACTIVITY OF THE RADIOACTIVE ANOMALY AREAS RECOMMENDED FOR EXPLORATION WERE CHECKED BY FIELD EXAMINERS. IF CHECKED, DESCRIBE RESULTS OBTAINED, OTHERWISE SUGGEST CHECKING AREAS AND FURNISH RESULTS.

George C. Selfridge

GEORGE C. SELFRIDGE
CHAIRMAN, OPERATING COMMITTEE

FLKnouse/izm 3-13-56
cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File
Operating Committee
Confirmation to Region III

Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.C.K.

3/12/56 dy

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

RECEIVED
MAR 12 1956

March 8, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4047 (Uranium), Charles M. Coleman and Associates, Clyde, Marsh, and Longport claim groups, Fremont County, Wyoming

Enclosed are the original and five copies of Form MF-203 which have been submitted by the applicant. Also enclosed is a copy of the applicant's letter in which he states that the Subordination Agreements will be forwarded to us when he receives them from Mr. Marshack.

W. M. Traver

Enclosures

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

RECEIVED
MAR 12 1956

March 8, 1956

224 New Customhouse
Denver 2, Colorado

Mr. Albert W. Dilling
Dilling and Dilling
Attorneys at Law
139 North Clark Street
Chicago 2, Illinois

Re: Docket DMEA 4047 (Uranium), Clyde, Marsh, and Longport claim groups, Fremont County, Wyoming

Dear Mr. Dilling:

This will acknowledge receipt of your letter of March 7, 1956 and the six executed copies of Form MF-203, Owner's Consent to Lien.

Please forward the Forms MF-201, Subordination Agreements, as soon as you receive them so that we may continue to process your application.

Very truly yours,

W. M. TRAVER,

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

HMC:ab

cc: Chair. Op. Comm. (2)
Docket 4047
Chron.

3/9/56

RECEIVED
MAR - 9 1956

DILLING AND DILLING
ATTORNEYS AT LAW
139 NORTH CLARK STREET
CHICAGO 2

ALBERT W. DILLING
KIRKPATRICK W. DILLING

TELEPHONE
CENTRAL 6-8418

March 7, 1956

Honorable C. O. Mittendorf
Administrator, Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Attention: Mr. Kapouse

Dear Sir:

Enclosed herewith is a copy of a letter written this date to Honorable W. M. Traver, Executive Officer, DMEA, Denver, with regard to Docket DMEA 4047, involving properties located in Fremont County, Wyoming.

You will note that the contents of said letter are self-explanatory.

Apparently there has been some misapprehension on the part of DMEA concerning the position of the Riverton Uranium Corporation, of which Mr. Coleman and the undersigned are officers, with respect to the properties in question. Please be advised that there has been no change in the ownership of said properties. At such time as mining operations on any of them commence, Riverton Uranium Corporation will supervise the operations, the ownership remaining the same, however.

Very truly yours,

Albert W. Dilling

AWD: hs

RECEIVED
MAR - 9 1956

March 7, 1956

Honorable W. M. Traver
Executive Officer, DMEA
Field Team, Region III
United States Department of the Interior
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

Re: Docket DMEA 4047 (Uranium), Clyde, Marsh, and Longport claim groups, Fremont County, Wyoming

Dear Sir:

This will acknowledge receipt of your letter of February 23, 1956, and enclosures, relating to the above application.

The undersigned is one of the owners of the properties in question, and is attorney for and associated with Mr. Coleman in connection with the application now being processed by DMEA.

Enclosed herewith are the original and five copies of the "Consent to Lien" which you forwarded to Mr. Coleman - executed by the necessary persons.

The two sets of subordination agreements also forwarded with your letter of February 23rd have been forwarded to Mr. Marshack for signature by him and his associates. As soon as said papers are returned, we shall forward them to you promptly.

Very truly yours,

Albert W. Dilling

AWD: hs
Enclosures.

COPY

3/9/56 [illegible]

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

RECEIVED
MAR - 8 1956

March 7, 1956

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 4047, Charles M. Coleman and Associates, Clyde, Marsh, and Longport Groups of claims, Fremont County, Wyoming

I have reviewed the report of examination, Charles M. Coleman and Associates, DMEA Docket 4047, dated February 24 and received in this office March 1. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The examining team visited the Clyde, Marsh, Longport, and Prince claims, Gas Hills area, Fremont County, Wyoming, on December 8 and 9, 1955, in order to determine the favorability of the property for an exploration program for uranium.

No indication of ore has been found on subject claims due to lack of drilling and sampling, but the examining team feels justified in recommending Government participation in exploration for uranium ore because of the presence of large anomalies on the claims and because the local ore-bearing conglomerate probably underlies most of them. A two-stage drilling program consisting of 4,460 feet of drilling and some trenching at a total estimated cost of $9,492.00 is recommended.

The proposed work is of a nature which makes classification of the project difficult. Categorically, the application can be assumed to be one for prospecting rather than exploration; however, inasmuch as the Field Team considers the project to be exploration, concurrence is in order provided that the field examination verified the presence of the large anomalies on the subject property.

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

John E. Crawford

John E. Crawford

3/5/56 lgm

IN REPLY REFER TO:

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

RECEIVED
MAR - 2 1956

March 1, 1956

Memorandum

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

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

Subject: Review of field examination report, DMEA 4047 (uranium), Charles M. Coleman and associates, Clyde, Marsh, and Longport groups of claims, Fremont County, Wyoming.

The examining team concludes that geologic conditions on the property are favorable enough to warrant DMEA participation in an exploration project.

The proposed project in two stages would consist of a total of 62 drill holes with 4,460 feet of drilling and 4,100 linear feet of trenching at a total estimated cost of $9,492.00.

From the examining team's description of geologic conditions on the property it seems that an exploration project would have a good chance of discovering new, small or medium sized ore bodies. Consequently, I agree with the examining team that DMEA participation in exploration on the property is justified.

W P Williams

W. P. Williams

2-28-56 Hym
700

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

FEB 28 1956

February 27, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4047 (Uranium), Charles M. Coleman and Associates, Clyde, Marsh, and Longport Groups of claims, Fremont County, Wyoming

This has further reference to our letter dated February 24, 1956 on the subject docket. Enclosed are nine extra copies of Figure 2 for possible use in the contract.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

3/5/56 lgm

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

RECEIVED
FEB 29 1956

February 24, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4047 (Uranium), Charles M. Coleman and Associates, Clyde, Marsh, and Longport Groups of claims, Fremont County, Wyoming

Enclosed are the original and three copies of a Joint Report of Examination on the subject docket.

The field examiners recommend an exploration project at an estimated total cost of $9,492.00. We concur in this recommendation. The program is founded on the supposition that ore deposits will be discovered in favorable beds of the Wind River formation in the immediate vicinity of radiometric anomalies present on the Clyde, Marsh, and Longport claim groups. In the Gas Hills area, significant ore bodies have been found by drilling radioactivity anomalies, and the field examiners conclude that such anomalies on the applicant's property warrant DMEA exploration.

ON-SITE EXAM

In other areas the drilling of radioactivity anomalies would appear to be of a prospecting nature, but in the Gas Hills area most of the known uranium deposits were discovered by drilling on and in the vicinity of radiometric anomalies.

Enclosed are nine extra copies of Figure 3 for possible use in the contract. Nine copies of Figure 2 have been ordered and will be forwarded you at an early date.

Owner's Consent to Lien forms have been forwarded the applicant for execution by all members of the subject association, and Subordination Agreements have been forwarded for the signatures of those parties holding an overriding royalty interest in the Clyde, Marsh, and Longport groups.

DMEA Field Team, Region III

Reviewed by
DMEA OPERATING COMMITTEE
3-2-56
(date)

W. M. Traver

E. N. Harshman

Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
FEB 29 1956

DMEA
Date Rec'd.
FEB 21 1956
BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

February 21, 1956

Memorandum

TRANSMITTED
FEB 24 1956

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw
E. N. Harshman

Subject: DMEA Docket 4047 (Uranium), Charles M. Coleman and Associates; Clyde, Marsh, Longport, and Prince claim groups, Freemont County, Wyoming

Enclosed are the original and nine copies of a joint report of examination by W. D. McMillan, Bureau of Mines, and M. H. Bergendahl, Geological Survey, covering the subject application.

Charles Coleman and Associates applied for DMEA assistance to explore for uranium on their property in the Gas Hills area, Freemont County, Wyoming, by 196 dry rotary holes at a total estimated cost of $37,521.71.

The examining team proposes a reduced program of exploration including 13 bulldozer trenches and 4,460 feet of dry rotary drilling at an estimated total cost of $9,492.00. The program is founded on the supposition that ore deposits will be discovered in favorable beds of the Wind River formation in the immediate vicinity of radiometric anomalies present on the Clyde, Marsh, and Longport claim groups. Significant ore bodies have been found by drilling anomalies in the Gas Hills area, and the conclusion that such anomalies on the applicants' property warrant exploration with Government assistance appears justified.

John F. Shaw
Superintendent of the Denver
Experiment Station

Reviewed by
DMEA OPERATING COMMITTEE
3-2-56
(date)

E. N. Harshman
Member, Field Team

Enclosures (10)
ENHarshman:mp

RECEIVED
FEB 29 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED
FEB 24 1956

DMEA 4047

Clyde, Marsh, Longport, and Prince Claim Groups

Charles M. Coleman and Associates

Gas Hills Uranium District

Fremont County, Wyoming

Uranium

Joint Engineering and Geological Report

by

W. D. McMillan, Mining Engineer
Bureau of Mines

M. H. Bergendahl, Geologist
Geological Survey

February 16, 1956

Reviewed by
DMEA OPERATING COMMITTEE
3-2-56
(date)

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ILLUSTRATIONS

Figure — Follows Page

1. Location map, Charles M. Coleman, and Associates, Gas Hills Uranium district, Fremont County, Wyoming. DMEA 4047..... 4

2. Exploration map showing geology and location of Clyde, Longport, Marsh, and Prince claim groups, Charles M. Coleman and Associates, Fremont County, Wyoming. DMEA 4047..... 7

Fig 2 & 3 attached to contract

3. Location of Stage I exploration, Clyde, Marsh, and Longport claims, Charles M. Coleman and Associates, Fremont County, Wyoming. DMEA 4047..... 15

DMEA 4047

RECEIVED
FEB 29 1956

CLYDE, MARSH, LONGPORT, AND PRINCE CLAIM GROUPS
CHARLES M. COLEMAN AND ASSOCIATES
GAS HILLS URANIUM DISTRICT
FREMONT COUNTY, WYOMING

Reviewed by
DMEA OPERATING COMMITTEE
3-2-56
(date)

SUMMARY

Charles M. Coleman and Associates, 139 North Clark St., Chicago, Illinois, now known as Riverton Uranium Corporation, applied for DMEA aid in the amount of $37,521.71 to explore for uranium on their Clyde, Longport, Marsh, and Prince groups of claims in the Gas Hills district, Fremont County, Wyoming.

M. H. Bergendahl, U. S. Geological Survey, examined the claims on December 8 and 9, 1955, in the company of John Kopuster, general manager, and Ralph H. Thurston, consulting geologist, who conducted the exploration for the company. All claims were examined, and several of the validation pits were sampled. W. D. McMillan of the Bureau of Mines made an engineering examination on January 5, 1956.

No uranium has been mined from these claims, and there is no mining or milling equipment on the property. Exploration by the company consists of a number of shallow excavations and a series of isorad maps of the claims.

Rocks exposed in the area are sedimentary and range in age from early Cretaceous to Tertiary. The Tertiary rocks were deposited on an eroded surface of folded Cretaceous beds. Known uranium deposits are restricted to the upper member of the Wind River formation. In the western part of the Gas Hills a conglomerate bed in the upper Wind

River formation is closely associated with the uranium deposits. In the eastern part of the district, deposits may occur at any interval in the upper Wind River formation.

Ore reserves cannot be computed because no indication of ore has been found due to lack of drilling and sampling.

The presence of large anomalies on the claims and the probability that a local ore-bearing conglomerate underlies most of them is believed by the examining team to be sufficient basis for Government participation in exploration for uranium ore on the subject property. A two-stage drilling program at a total cost of $9,492.00 is recommended.

ACKNOWLEDGMENTS

D. L. Norton and Bruce Kibbler, AEC geologists in Riverton, supplied much information on the stratigraphy and the general characteristics of the ore bodies. H. D. Zeller and P. E. Soister, Fuels Branch, U. S. Geological Survey, furnished geologic maps and other useful data pertaining to the geology of this area.

INTRODUCTION

Charles M. Coleman and Associates applied for Defense Minerals Exploration Administration assistance to explore for uranium on their Clyde, Marsh, Longport, and Prince groups, totaling 28 claims, in the Gas Hills district of Fremont County, Wyoming. Their proposal was for about 314 holes to be drilled in three stages. The total amount

of drilling was estimated to be 19,568 feet at a cost of $37,521.71. All holes were to be drilled by a rotary drill using air to remove the cuttings.

A geological examination of these claims was made by M. H. Bergendahl of the Geological Survey on December 8 and 9, 1955, accompanied by Ralph H. Thurston, geologist for the applicant, and John Kopuster, general manager of Riverton Uranium Corporation. W. D. McMillan, of the Bureau of Mines, examined the property on January 5, 1956.

A modified two-stage program on the Clyde, Marsh, and Longport claims is proposed. It consists of 13 trenches, with a total length of 4,100 feet, and two drill holes, each 50 feet deep, on the Clyde claims; 16 drill holes with an estimated total length of 1,370 feet on the Marsh claims; and nine drill holes with an estimated total length of 490 feet on the Longport claims. The estimated total cost of the modified exploration program is $9,492. Government participation at 75 percent would be $7,119.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

Clyde group - Claims Nos. 7 to 18, inc.--These are located in secs. 15, 22, 23, and 24, T. 32 N., R. 91 W., 6th principal meridian, on a southerly-trending slope, with a mean altitude of 6,650 feet and a relief of 100 feet from north to south. They are reached from Moneta, Wyoming, by 32 miles of graded county road.

Marsh group - Claims Nos. 1 to 6, inc.--The location of this group is in secs. 32 and 33, T. 32 N., R. 90 W., 6th principal

meridian, in a south-trending valley, with a mean altitude of 6,850 feet, and a relief of 100 feet. They are reached from Moneta, Wyoming, by 30 miles of graded road.

Longport group - Claims Nos. 1 to 5, inc.--This group is located in secs. 27 and 34, T. 32 N., R. 90 W., 6th principal meridian, in a northward-trending valley with a mean altitude of 6,600 feet with low relief. They are reached from Moneta, Wyoming, by 30 miles of graded county road.

Prince group - Claims 1 to 5, inc.--This group is located on a northerly-trending slope with a mean altitude of 6,330 feet and a relief of 100 feet. They are reached from Moneta, Wyoming, by 27 miles of graded road.

These four groups of 28 claims are scattered over an area 7 miles east-west and 9 miles north-south. Shoshoni, 59 miles northwest of the area, and Riverton, 82 miles northwest, are the nearest sources of supplies (see fig. 1).

About 3 miles north of the Marsh claim group, a low divide separates the north and south drainage systems. Streams are intermittent, and the land surface is dissected by many dry washes.

Vegetation is limited to sagebrush, native grasses, cacti, and sparse growths of scrub pine and juniper along the streams and washes. Temperatures range from below freezing in the winter to around 90° F. in the summer. Heavy rainstorms occur in the spring and summer. Winter snowstorms accompanied by constant winds result in considerable drifting.

The only present market for uranium ore from the Clyde, Marsh, Longport, and Prince claim groups is the U. S. Atomic Energy Commission's purchasing depot at Riverton, Wyoming, 82 miles to the northwest.

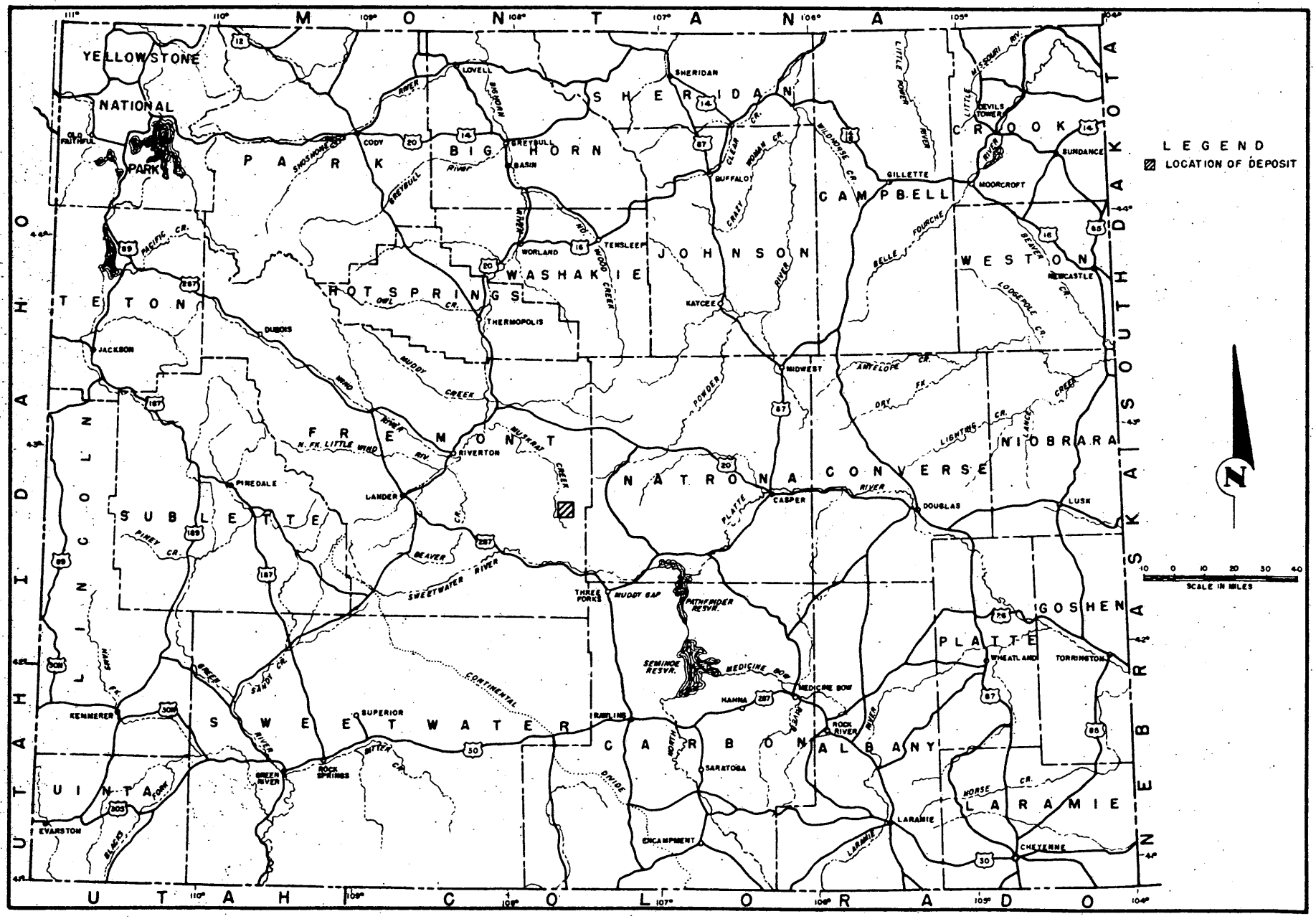


FIGURE 1 - LOCATION MAP, CLYDE, MARSH, LONGPORT AND PRINCE CLAIM GROUP, CHARLES M. COLEMAN AND ASSOCIATES, FREMONT COUNTY, WYOMING. DMEA 4047

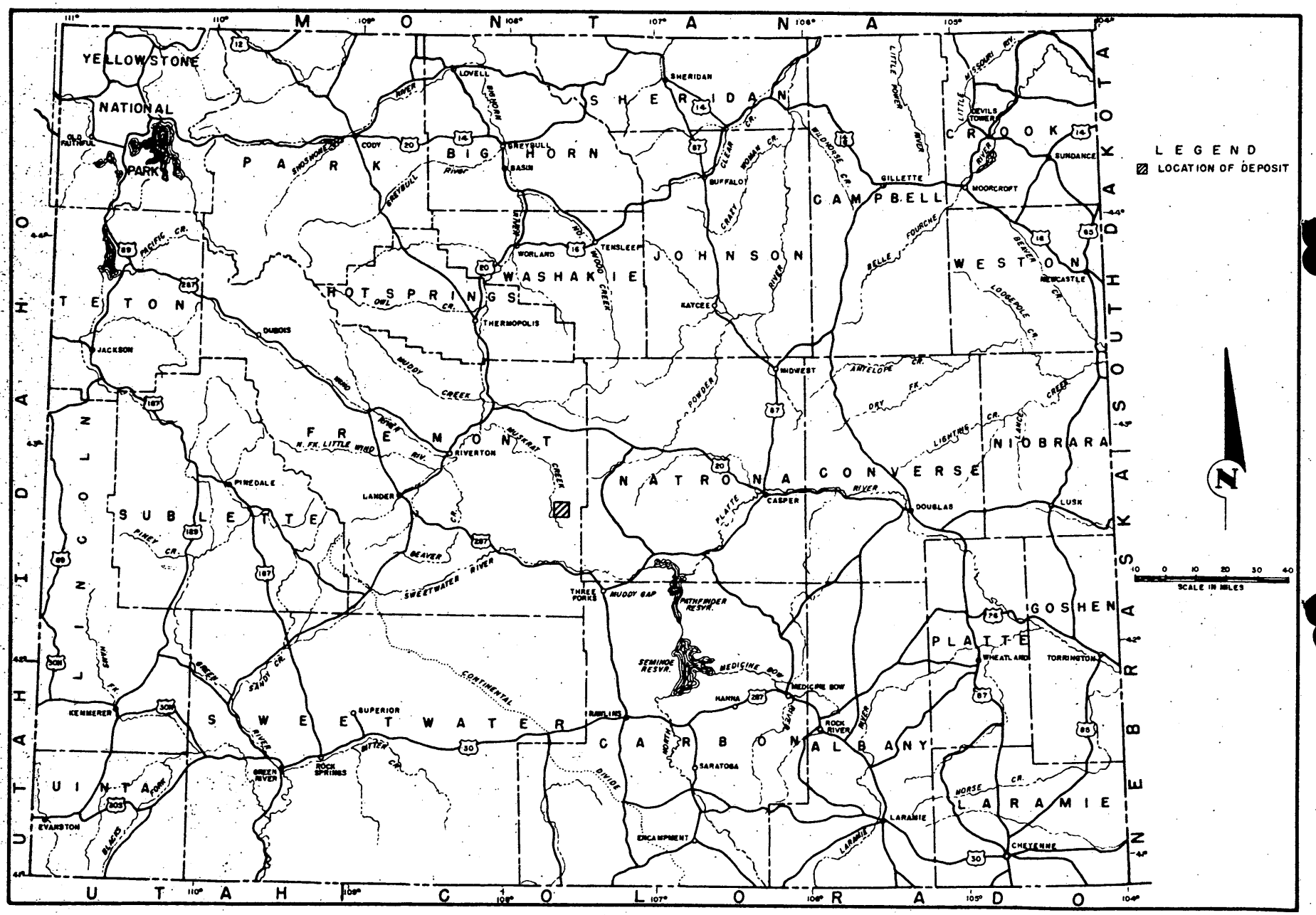


FIGURE 1 - LOCATION MAP, CLYDE, MARSH, LONGPORT AND PRINCE CLAIM GROUP, CHARLES M. COLEMAN AND ASSOCIATES, FREMONT COUNTY, WYOMING. DMEA 4047

Mining timber and lumber are available at local saw mills. All power needs must be furnished by motor-driven units. Water for drilling and domestic purposes may be obtained from springs near the claims.

LABOR AND LIVING CONDITIONS

Labor of all classes is available at Shoshoni and Riverton, but these towns are too far from the Gas Hills for workers to commute. In the Gas Hills district, personnel may be quartered in trailer camps.

HISTORY, PRODUCTION, AND OWNERSHIP

The uranium mining history of the Gas Hills district is fairly recent. Within the past three years, claims were staked over an area of 150 square miles, and extensive exploration was conducted by both the U. S. Atomic Energy Commission and private companies. At present there are numerous producing uranium mines in the district, and ten or more of these are close to the subject claim groups.

There has not been any production from the subject claim groups.

The records of the 28 claims of the subject application were checked at the Fremont County Recorder's office at Lander, Wyoming, and the claim locations appear to be valid, with assignment by the locators to the applicant.

Pertinent data on the claim records are given below.

Claim	Book No.	Page No.	Cert. No.	Date	Locators	Date
Clyde No. 7	78	474	390,604	12/9/54	Irving L. Marshack	10/15/54
" " 8	78	475	390,605	" "	" "	"
" " 9	"	476	390,606	" "	" "	"
" " 10	"	477	390,607	" "	" "	"
" " 11	"	478	390,608	" "	" "	"
" " 12	"	479	390,609	" "	" "	"
" " 13	"	480	390,610	" "	" "	"
" " 14	"	481	390,611	" "	" "	"
" " 15	"	482	390,612	" "	" "	"
" " 16	"	483	390,613	" "	" "	"
" " 17	86	278	398,916	1/19/55	" "	"
" " 18	86	279	398,917	" "	" "	"
Marsh No. 1	59	418	365,236	3/11/54	" "	3/8/54
" " 2	"	419	365,237	" "	" "	"
" " 3	"	420	365,238	" "	" "	"
" " 4	"	421	365,239	" "	" "	"
" " 5	"	422	365,240	" "	" "	"
" " 6	"	423	365,241	" "	" "	"
Longport 1	"	413	365,231	" "	" "	3/10/54
" " 2	"	414	365,232	" "	D. Londer	"
" " 3	"	415	365,233	" "	R. Uttor	"
" " 4	"	416	365,234	" "	E. Lesnick	"
" " 5	"	417	365,235	" "	" "	"
Prince No. 1	76	133	388,526	11/29/54	William H. Jonson	10/1/54
" " 2	"	134	388,527	" "	Charles M. Masey	"
" " 3	"	135	388,528	" "	" " "	"
" " 4	"	136	388,529	" "	" " "	"
" " 5	"	137	388,530	" "	" " "	"

DEEDS OF CONVEYANCE
From Locators to Charles M. Coleman

Group	Book No.	Page No.	Certificate No.	Date
Clyde	112	180	419,893	5/19/55
Marsh	112	178	419,892	5/19/55
Longport	112	183	419,894	5/19/55
Prince	117	421	423,957	6/7/55

MINABLE ORE RESERVES

The applicant has made no estimate of ore reserves on this property. No exploratory holes have been drilled, and no uranium minerals were detected in natural exposures and pits; consequently, it is not possible to compute ore reserves.

PRESENT STATUS

Exploration and Development

Present exploration and development on the Clyde, Marsh, Longport, and Prince claim groups consists of tractor trenches on each claim, surveying of the claims, a few pits shovelled by hand, and radiometric surveys of each group, with isorad maps.

Mining Equipment and Other Facilities

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

GEOLOGY AND DESCRIPTION OF THE DEPOSITS

Rocks exposed in the vicinity of the Clyde, Marsh, Longport, and Prince groups of claims are sedimentary and range from early Cretaceous to Tertiary in age (fig. 2). The Cretaceous rocks are, in ascending order, the Mowry shale, the Frontier formation, and the Cody shale. Overlying these are the Tertiary units, the oldest of which is the Wind River formation, of early Eocene age. Unnamed sediments of middle and late Eocene age overlie the Wind River formation. The White River formation, of Oligocene age, overlies

the Eocene sequence, and unnamed sediments of Miocene age overlie the White River formation.

The Cretaceous rocks are sharply folded, and dips range up to 25°. The Tertiary rocks were deposited on a previously warped and eroded surface. Dips of the Tertiary rocks are on the order of 5° or less but may be greater in the vicinity of faults. Some folding continued into Tertiary time, especially in the vicinity of the Gas Hills anticline, northeast of the area shown in figure 2, where the Wind River sediments are tilted more steeply than elsewhere. In general, the Tertiary rocks strike northwest and dip gently to the southwest.

Several faults are present (fig. 2). These generally strike almost east-west. The amount of displacement is difficult to determine because of the lenticular and unconsolidated nature of the Tertiary sediments.

The Wind River formation is significant because it is the host rock for the uranium deposits discovered to date in the Gas Hills area. It has been divided into an upper and lower member on the basis of two distinct lithologic units separated by an unconformity. The lower part of the Wind River formation is composed predominantly of fine-grained clastics - clay, silt, and fine-grained sand. The upper part of the Wind River formation is chiefly coarse-grained sandstone and conglomerate, with thin beds and seams of siltstone and clay. Immediately above the unconformity is a bed of blue-gray

clay that is fairly persistent throughout the area. Known uranium deposits in the Gas Hills area are restricted to the upper member of the Wind River formation. Due to the unconformable nature of the contact, the thicknesses of the lower and upper Wind River members vary considerably. According to the AEC, no average thicknesses have been established for these units; for example, the upper part of the Wind River may range from 100 to more than 400 feet in thickness.

Uranium deposits in the eastern part of the Gas Hills occur sporadically throughout the upper part of the Wind River formation. According to H. D. Zeller and P. E. Soister, U. S. Geological Survey, the deposits in the western part of the Gas Hills are closely associated with a fairly persistent conglomerate bed in the upper part of the Wind River formation. This unit pinches out to the east, but it apparently underlies the Clyde, Marsh, and Longport claim groups at a depth of about 100 feet. Deposits may occur slightly above, slightly below, or within this unit.

Throughout the Gas Hills, exploration to date has been confined to depths of less than 200 feet of the surface. This is primarily because surface radioactivity, which has been used as a guide in exploration, can locate only shallow deposits, In addition, the unconsolidated nature of the Wind River sediments would make mining of deep deposits difficult and expensive.

The known deposits are relatively small and irregularly shaped. The common uranium minerals are uranophane, autunite, meta-autunite, and uranospinite. Vanadates, such as carnotite and tyuyamunite, are rare. Unoxidized uranium deposits containing black uranium minerals, probably pitchblende or coffinite, are being mined at the Lucky Mac and Vitro properties.

Most of the known deposits were discovered by drilling radioactivity anomalies. A few were located by haphazard drilling without any surface indication of either mineralization or anomalous radioactivity.

Most of the claims owned by Charles M. Coleman and Associates are underlain by the upper part of the Wind River formation. About half of the claims of the Clyde group are covered with a veneer (10 to 20 feet thick) of the unnamed middle and upper Eocene sequence. The northern claims of the Prince group are underlain by the lower member of the Wind River formation. The upper part of the Wind River formation does not exceed 15 to 20 feet in thickness on the Prince group. Several radioactivity anomalies are present on each group of claims (fig. 2).

The channels mentioned on page 13 of the geological report, submitted by the applicant, may or may not exist. Mr. Thurston based this statement on drilling data gathered from a variety of sources; consequently, this data is of uncertain accuracy. There are no surface indications of any major channels in the Wind River formation on the claims.

Even though channels may be present, this phenomenon has not yet been recognized as an effective geologic guide for ore in the Gas Hills district.

During the field examination, all claims were visited and samples were taken from discovery pits on the following claims: Clyde 10 and 14 (boundary line pit), Marsh 2, Marsh 3 and 6, (boundary line pit), and Longport 1. These samples were analyzed for U and V_2O_5 in the U. S. Geological Laboratory, Denver, Colorado. The results are as follows:

Sample Location	% eU	% U	$\%V_2O_5$
Pit on boundary of Clyde 10 and 14	.003		
Pit on Marsh 2	.003		
Pit on Longport 1	.014	.003	0.1
Pit on boundary of Marsh 3 and 6	.003		

The assay from Longport 1, shows that the U percent is out of equilibrium with the eU percent by a factor of 4. This sample, however, was taken from the weathered zone, less than 7 feet below the surface, and may not be indicative of the equilibrium relationships at depth.

Selenium analyses of these samples were requested, but due to the current work load in the Geological Survey Laboratory, these analyses cannot be performed for several months.

PROJECT PROPOSALS WITH COSTS

The applicant proposed a three-stage program of exploration on the Clyde, Marsh, Longport, and Prince group of claims. This proposal consisted of rotary drilling, using compressed air to remove the cuttings, which would be retained in a suitable dust collector.

The locations of Stage I holes, submitted on the isorad maps for each claim group are summarized below.

Group	Area	Number of claims	Number of holes	Average depth feet	Total depth feet
Clyde	A	1	6	45	270
	B	6	14	45	630
	B		54	75	4,050
Total Clyde		7	74		4,950
Marsh	A	2	24	70	1,680
	B	4	41	70	2,870
	C	2	7	70	490
	D	1	9	70	630
Total Marsh		9	81		5,670
Longport	A	1	14	50	700
	B	1	5	50	250
	C	2	10	30	300
Total Longport		4	29		1,250
Prince	A	1	6		180
	B	1	6		180
Total Prince		2	12		360
Grand Total		22	196		12,230

Stage II is based on an estimate that 15 percent of Stage I holes might indicate mineralization. Two holes spaced 100 feet away from each mineralized Stage I hole are proposed for Stage II

drilling. This will require an estimated 30 percent of the Stage I drill footage or 3,669 feet.

Stage III was proposed on the basis of drilling holes on 50-foot offsets around either Stage I or Stage II mineralized holes. This will require an estimated 3,669 feet of drilling.

Total proposed drilling is 196 holes or 19,568 feet at an estimated cost of $37,521.71, equivalent to an over-all cost of $1.92 a foot.

The proposed program was modified by the examining team to a total of 27 holes with 1,960 feet of drilling and 13 trenches with a total length of 4,100 feet in Stage I and not to exceed 35 holes with 2,500 feet of drilling in Stage II. The total estimated cost of the modified program is $9492.00.

No exploration is proposed on the Prince group because only 20 feet or less of the upper Wind River formation underlies these claims; furthermore, the anomalies on these claims are small.

PROPOSED EXPLORATION AND COSTS

A two-stage program of exploration is proposed. Although the applicant has not proved that uranium exists on his claims, the examiners believe that a modified program is justified for the following reasons:

1. The Gas Hills district contains many relatively small uranium deposits concentrated in an area roughly 10 miles wide and 20 miles long. This concentration results in a fairly high ratio of uranium deposits to anomalies.

2. In the western part of the Gas Hills a persistent conglomerate bed, 5 to 30 feet thick, is closely associated with the uranium deposits. It is believed that this bed underlies the Clyde, Longport, and Marsh groups.

3. Most of the deposits found to date have been discovered by drilling on and close to surface radioactivity anomalies. The paucity of geologic guides to ore and the density of deposits in the Gas Hills area strengthen the practicability of utilizing radioactivity anomalies as exploration guides.

The examining team proposes the following exploration:

Stage I

Clyde group - The large anomaly on the Clyde group follows the rim of a promontory that drops off sharply to the north and west. This promontory is capped with less than 20 feet of the unnamed middle and upper Eocene sediments. The conglomerate bed in the Wind River formation that is associated with ore in this region should be present at a depth of 130 feet beneath the middle and upper Eocene sediments. It is apparent that the source of radioactivity for this large anomaly on the Clyde group is located a considerable distance above the conglomerate. The large anomaly can best be explored by a series of bulldozer trenches cut down the steep slope. Beginning 200 feet north of the southern boundary of Clyde 11, a series of trenches should be cut, 300 feet

apart, continuing northward and to the east along the rim, terminating in Clyde 18, where the slope becomes more gentle. Each trench will be 310 to 320 feet long and should extend from the top of the rim to the break in slope at the bottom (fig. 3).

To explore the conglomerate bed, two holes, each 50 feet deep (fig. 3) should be drilled in the anomaly in Clyde 17. This claim is about 90 feet lower in altitude than the promontory; consequently, the conglomerate would be closer to the ground surface.

Marsh group - The Marsh group should be explored because the anomalies are large. Thirteen 70-foot holes are proposed to test the near-surface ore possibilities reflected by the large anomalies. Five 120-foot holes are proposed to explore the conglomerate bed that probably occurs at 90 to 100 feet below the surface in this area. The upper part of the Wind River formation is exposed on all of the Marsh claims.

Marsh 1 and 2 - Four proposed holes are located on fig. 3, three of which should be 70 feet deep, the fourth to be 120 feet deep. This drilling is to test the anomaly that extends across these claims. The 120-foot hole should penetrate the conglomerate bed.

Marsh 3 and 6 - One hole, depth 70 feet, should be drilled in the anomaly on the boundary between these two claims (fig. 3).

Marsh 4 and 5 - Eleven holes (fig. 3) should be drilled in the large anomaly covering these claims. Four of these should be 120 feet deep, and the remainder should be 70 feet deep.

Marsh 6 - The anomaly on this claim should be tested with two holes (fig. 3), each 70 feet in depth.

Longport group- The Longport group is underlain by the upper part of the Wind River formation, and several anomalies are present (fig. 3) that should be drilled. The conglomerate bed should be present beneath these claims, although it is probably thin and not likely to contain significant ore deposits. For this reason, drilling is limited to 50-foot depths to explore the surface anomalies only.

Longport 1 - The anomaly in this claim should be explored with three holes, each 50 feet in depth, as shown on fig. 3.

Longport 2 and 4 - An anomaly straddles the boundary between these two claims. Two holes, each 50 feet in depth, should be drilled as shown on fig. 3.

Longport 5 - The anomaly in the northern part of this claim should be explored with 2 holes, each 50 feet in depth, as shown on fig. 3.

Total footage for Stage I drilling is 1,960 feet. Samples of radioactive cuttings and trench exposures, especially those with visible uranium minerals, should be assayed chemically for U_3O_8. Estimated total number of assays for Stage I is 190.

Holes will be drilled with a rotary rig, and the cuttings removed by compressed air and collected in a cyclonic dust collector as proposed by the applicant. All holes should be probed radiometrically by the applicant.

Stage II

Stage II exploration will be prosecuted only in the event that significant mineralization is encountered in Stage I exploration and only with prior approval of DMEA.

Clyde group - Any concentration of ore-grade material discovered in the Stage I bulldozing should be further delineated by drill holes 100 feet apart back from the edge of the promontory. The number and depth of these holes is dependent on the attitude and extent of ore exposed in the trenches. In any event, these holes should not exceed depths of 120 feet.

On Clyde 17, four holes, 100 feet apart, should be drilled around any Stage I hole that penetrates ore.

Marsh group - Stage II exploration in this group consists of drilling four holes on 100-foot centers around any Stage I holes that penetrate ore. Maximum depth of these holes should be 120 feet.

Longport group - Four holes on 100-foot centers should be drilled around any Stage I holes that encounter ore. Maximum depth of Stage II holes in this group is 50 feet.

Stage II drilling is estimated to be 2,500 feet. Samples of cuttings that contain uranium minerals or are radioactive without visible mineralization should be analyzed chemically for U_3O_8.

Total estimate of assays for Stage II is 110.

Holes will be rotary drilled, and cuttings will be air-blown as in Stage I. All holes will be probed radiometrically.

Stage I

Estimated time for completion 14 days

	Holes	Trenches	Estimated footage holes	Trenches
Clyde group	2	13	100	4,100
Marsh	16		1,510	
Longport	9		350	
Totals	27	13	1,960	4,100

Bulldozer trenches

Independent contract	$ 960.00	
Laborer, 14 days at $14 a day	196.00	
1 Consulting geologist 1/3 mo.	200.00	
Total		$1,356.00

Drilling

Independent contract		
1,960 feet of drilling at $1.00	$1,960.00	
Preparation of drill site	240.00	
Labor and Supervision		
1 Laborer	196.00	
Consulting geologist 2/3 mo.	400.00	
Operating materials and supplies		
Automobile	70.00	
Sample containers	3.00	
Miscellaneous		
Logging 1,960 feet at $0.10	196.00	
Payroll taxes and insurance	28.00	
Accounting	42.00	
Total		$3,135.00
Cost per foot		1.60
100 samples at $5.00		500.00

Summary of Costs

Stage I

Bulldozing 13 trenches	$1,356.00		
Drilling 1,960 feet at $1.60	3,136.00		
100 samples at $5.00	500.00		
Total cost of Stage I		$4,992.00	
Amount of Government participation		3,744.00	

Stage II

2,500 feet of drilling at $1.60	$4,000.00		
100 samples at $5.00	500.00		
Total Cost of Stage II		$4,500.00	
Amount of Government participation		3,375.00	
Total Cost of Contract			$9,492.00
Amount of Government participation			7,119.00

CONCLUSIONS AND RECOMMENDATIONS

The examining team concludes that uranium deposits in the area of the subject claims are randomly distributed in the upper un-oxidized member of the Wind River formation. Most of the known uranium deposits were discovered by drilling on and in the vicinity of radioactive anomalies. The presence of sizeable anomalies on the Clyde, Longport, and Marsh claim groups and the presence of ore-bearing conglomerate beneath some of these claims appears to be sufficient justification for a modified two-stage exploration program on these three groups. No exploration is recommended on the Prince claim group since the upper member (ore-bearing) of the Wind River formation in that area is very thin, less than 20 feet, and the two anomalies reported by the applicant on these claims are relatively small.

It is recommended that a short form unit cost contract be prepared for the recommended exploration program. The total cost is estimated to be $9,492.00. Government participation at 75 percent or $7,119.00.

Holes in Stage I are to be rotary drilled to the depths shown. All holes should be logged radiometrically by the applicant and chemical analyses for U_3O_8 are to be made on samples showing visible uranium minerals or moderate radioactivity.

3/2/56

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

RECEIVED
FEB 2 1956

CERTIFIED MAIL

February 23, 1956

224 New Customhouse
Denver 2, Colorado

Mr. Charles M. Coleman
Charles M. Coleman and Associates
139 North Clark Street
Chicago, Illinois

Re: Docket DMEA 4047 (Uranium), Clyde, Marsh, and Longport claim groups, Fremont County, Wyoming

Dear Mr. Coleman:

Enclosed are the following:

1. The original and five copies of Form MF-203, Owner's Consent to Lien on the Clyde, Marsh, and Longport group of claims. All copies should be signed by all owners which according to your application are Charles M. Coleman, Albert W. Dilling, J. H. Deimerly, Kirkpatrick W. Dilling, and Leonard D. Carmichael.

2. The original and five copies of Form MF-201, Subordination Agreement on the Longport group of claims to be signed by all persons holding an overriding royalty on this group of claims. Your application stated that these persons are Irving L. Marshack, Don Londer, Robert W. Utter, and Charles Losnick.

3. The original and five copies of Form MF-201, Subordination Agreement on the Clyde and Marsh group of claims to be signed by the holder of the overriding royalty on these two groups of claims. Your application stated that Irving L. Marshack is the sole owner of the overriding royalty interest in the Clyde and Marsh groups of claims.

When you have received all of the above signatures, will you please return all copies to this office so that we may continue to process your application.

Very truly yours,

W. M. TRAVER,

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

HMC:ab

cc: Sec. Op. Comm. (2)
Docket 4047
Harshman
Enclosures Chron.

11-30-55 [illegible]

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

November 23, 1955

224 New Customhouse
Denver 2, Colorado

RECEIVED
NOV 25 1955

Mr. Ralph E. Thurston
Box 636
Lander, Wyoming

Re: Docket DMEA 4047 (Uranium), Clyde, Marsh, Longport, and Prince groups of claims, Fremont County, Wyoming

Dear Mr. Thurston:

Will you please advise this office when weather conditions are favorable for a field examination of the subject property. We can not make a suitable examination when the ground is covered with snow. Upon receipt of advice from you, the examination will be scheduled and you will be advised as to the date.

Very truly yours,

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

By J. W. Townsend
J. W. Townsend

cc: Sec. Op. Comm. (2)

11-25-55 gm

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
November 22, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Acting Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4047 (Uranium), Charles M. Coleman and Associates, Clyde, Marsh, Longport, and Prince groups of claims, Fremont County, Wyoming

The above brochure was received in this office on November 22, 1955.

A field examination will be made and suitable report prepared by an engineer from the Denver office.

John F. Shaw

John F. Shaw

cc 2 w/orig.
E. N. Harshman

Sec.Op.Comm. (2)

RECEIVED
NOV 25 1955

11-25-55 [illegible]

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

November 21, 1955

20th New Customhouse
Denver 2, Colorado

Memorandum

To: J. F. Shaw (With brochure and map)
E. H. Harshman

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4047 (Uranium), Charles H. Coleman and Associates, Clyde, Marsh, Longport, and Prince groups of claims, Fremont County, Wyoming

Enclosed is the subject application in the amount of $37,381.71. Also enclosed for your information is a copy of a letter from the Chairman of the Operating Committee dated November 16, 1955 with attached memoranda of review of the application by John E. Crawford and H. E. Nelson. The copy of the map mentioned in the Chairman's letter is attached to the application.

A field examination and suitable report are requested.

W. M. Traver

By J. W. Townsend
J. W. Townsend

Enclosures

cc: Sec. Op. Comm. (2)

RECEIVED
NOV 25 1955

Surname copy

F. L. Knouse 100
Ellis
Nelson
Selfridge
JE Johnson

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

NOV 16 1955

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
22A New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4047 (Uranium)
Charles M. Coleman and Associates
Clyde, Marsh, Longport and Prince
Groups of claims
Fremont County, Wyoming

Dear Mr. Traver:

The captioned application is referred to your office for a field examination and report on the proposed project. A copy of the application was transmitted to your office on November 4, 1955.

Enclosed are copies of memoranda, dated November 9, 1955, from Mr. John E. Crawford, USBM, and Mr. H. E. Nelson, USGS, relative to the subject project. There is also enclosed a map entitled "Property and Airborne Anomaly Map of the Gas Hills and Vicinity Fremont and Natrona Counties - Wyoming," submitted by the Applicant.

If your office recommends an exploration program as submitted or revised by the Applicant, we will require nine copies of a map showing the proposed work and mineralized exposures in relation to the claim boundaries. Also, in this connection, we will require Consent to Lien forms executed by all the members of the subject Association and, likewise, Subordination Agreements by all the parties who have an overriding royalty interest in the property that is recommended for an exploration project.

Sincerely yours,

/s/ Robert W. Wo[illegible]
Cy 557

Chairman, Operating Committee

Enclosures

/s/ Robert W. W[illegible]
Cy 557

Member, Bureau of Mines

H. E. Nelson
Cy 557

Member, Geological Survey

FLKnouse/gla
11-15-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700

Mr. Knouse

Surname copy 700

F. L. Knouse
Ellis
Kelson
Gukon
Selfridge
Pfeifer

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

NOV 16 1955

Mr. Charles M. Coleman
Charles M. Coleman and Associates
139 N. Clark Street
Chicago, Illinois

Re: Docket No. DMEA-4047 (Uranium)
Clyde, Marsh, Longport and Prince
Groups of claims
Fremont County, Wyoming

Dear Mr. Coleman:

The application for assistance in exploring the subject property in Fremont County, Wyoming, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred for a field examination to the Executive Officer of Region III at the following address:

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

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse/gla
11-15-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Knouse
DMEA Field Team, Region III (2)

R.C.S.

11/10/55 gla

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

November 9, 1955

RECEIVED
NOV 1 0 1955

Memorandum

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

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

Subject: Application for assistance, DMEA Docket 4047, Charles M. Coleman and Associates, Clyde, Marsh, Longport, and Prince groups of claims, Gas Hills area, Freemont County, Wyoming

I have reviewed the attached application, DMEA Docket 4047, dated November 4, 1955 and received in this office November 4, 1955. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant, Charles M. Coleman, has requested DMEA aid to explore for uranium on the Clyde, Marsh, Longport, and Price groups of claims located in the Gas Hills area of Freemont County, Wyo. The proposed exploration program consists of rotary drilling on the claims in three stages. Stage I holes will be drilled in areas of highest readings on an isorad map of the claims, and will total 12,230 feet of drilling. Stage II consists of 3,669 feet of drilling on 100-foot centers to each mineralized hole found in Stage I. Stage III drilling of 3,669 feet will be on 50-foot centers wherever required. The cost of contract drilling at $1.00 per foot is $19,568.00 for the project. Other costs bring the total estimated cost of the exploration program to $37,521.71.

The applicant presented no evidence that uranium mineralization existed on the subject claims. The justification of the entire project is based on radiometric readings taken in the area.

Inasmuch as the applicant has not taken the initiative to determine if uranium actually exists on subject claims in this favorable area, the program is interpreted as a prospecting venture. We recommend that the application be denied without prejudice, in that it has not reached the exploration stage.

John E. Crawford

John E. Crawford

Attachment

11/10/55 gla

IN REPLY REFER TO:

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

RECEIVED NOV 10 1955

November 9, 1955

Re: DMEA 4047
Charles M. Coleman and Associates
Clyde etc. group
Fremont Co., Wyoming
$37,521.71 - Uranium

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in exploring in 3 stages by rotary dry drilling, 4 groups of claims. The groups do not adjoin but are in the same general area, an area characterized by numerous small orebodies.

Isorad maps of the groups accompany the application. Each group map shows one or more anomalies, outlined according to his interpretation of the radioactivity data by the consulting geologist. As interpreted the groups show:

Name of Group	No. of Claims	No. of Anomalies	No. of holes proposed*
Clyde	12	2	A = 6 B = 68
Marsh	6	4	A = 24 B = 41 C = 7 D = 9
Longport	5	3	A = 14 B = 5 C = 10
Prince	5	2	A = 6 B = 6
Totals	28	11	196

* Stage I Estimated footage 12,230 feet

Stages II and III drilling will be based on the results of the Stage I work and are estimated on a percentage basis thus:

Stage II	30% of I	3,669 feet
" III	Same as II	3,669 "

The breakdown of costs:

Drilling 19,568 feet at 1.00/ft	$19,568.00
Bulldozer 104 " " 13.00	1,342.00
Labor	1,472.06
Supervisor and consultant	3,672.00
Operating supplies, etc.	652.80
Sampling and analysis	4,176.80
Logging	1,956.80
Other and contingencies	4,681.25
	$37,521.71

An appraisal of the application involves an appraisal of the consultant's method of interpreting radiometric survey data, and the validity of the channel projections, on which some assumptions are based.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

11-9-55 zgm

DILLING AND DILLING
ATTORNEYS AT LAW
139 NORTH CLARK STREET
CHICAGO 2

ALBERT W. DILLING
KIRKPATRICK W. DILLING

TELEPHONE
CENTRAL 6-8418

RECEIVED
NOV 10 1955

November 7, 1955

Honorable C. O. Mittendorf
Administrator, Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: DMEA-1017

Dear Mr. Mittendorf:

On November 3rd I talked with Deputy Administrator F. E. Johnson concerning the application of Charles M. Coleman and Associates for aid in an exploration project covering the Marsh, Clyde, Prince and Longport claim groups, located in the Gas Hills Uranium District of Fremont County, Wyoming, at which time said DMEA application was filed.

Mr. Johnson suggested that a map of the area covering the four groups of claims involved be submitted as an additional exhibit to the aforesaid application. Therefore, herewith enclosed are four copies of the map issued by Western States Map Co., Salt Lake City, Utah, covering the Gas Hills area. The four groups of claims are marked on said maps.

You will note that the anomalies and ore bodies have been at least partially indicated on said map. As you undoubtedly know, there are a number of mining operations proceeding in the Gas Hills area, conducted by Utah Construction Co. (Lucky Mc mine), Vitro Minerals Corporation, Globe Mining Co., Cheyenne Mining & Uranium Co., Homestake Mining Co., McAlester Fuel Co., Aljob Mining Co., Upetco Corporation, Long Mining Co., Savannah Construction Co., San Juan Uranium Exploration, Inc., and others.

I am indeed sorry that, due to the fact that you were not in Washington, I missed meeting you.

Yours very truly,

Albert W. Dilling

AWD: hs

November 4, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA - 4047 Charles M. Coleman, et al

Robert E. Adams
Chief, Operation's Control
and Statistics Division

November 4, 1955
Subject: DMEA-4047
Re: Exploration Assistance
Clyde, Marsh, Longport &
Prince Groups of Claims

Mr. Charles M. Coleman
139 N. Clark Street
Chicago, Illinois

My dear Mr. Coleman:

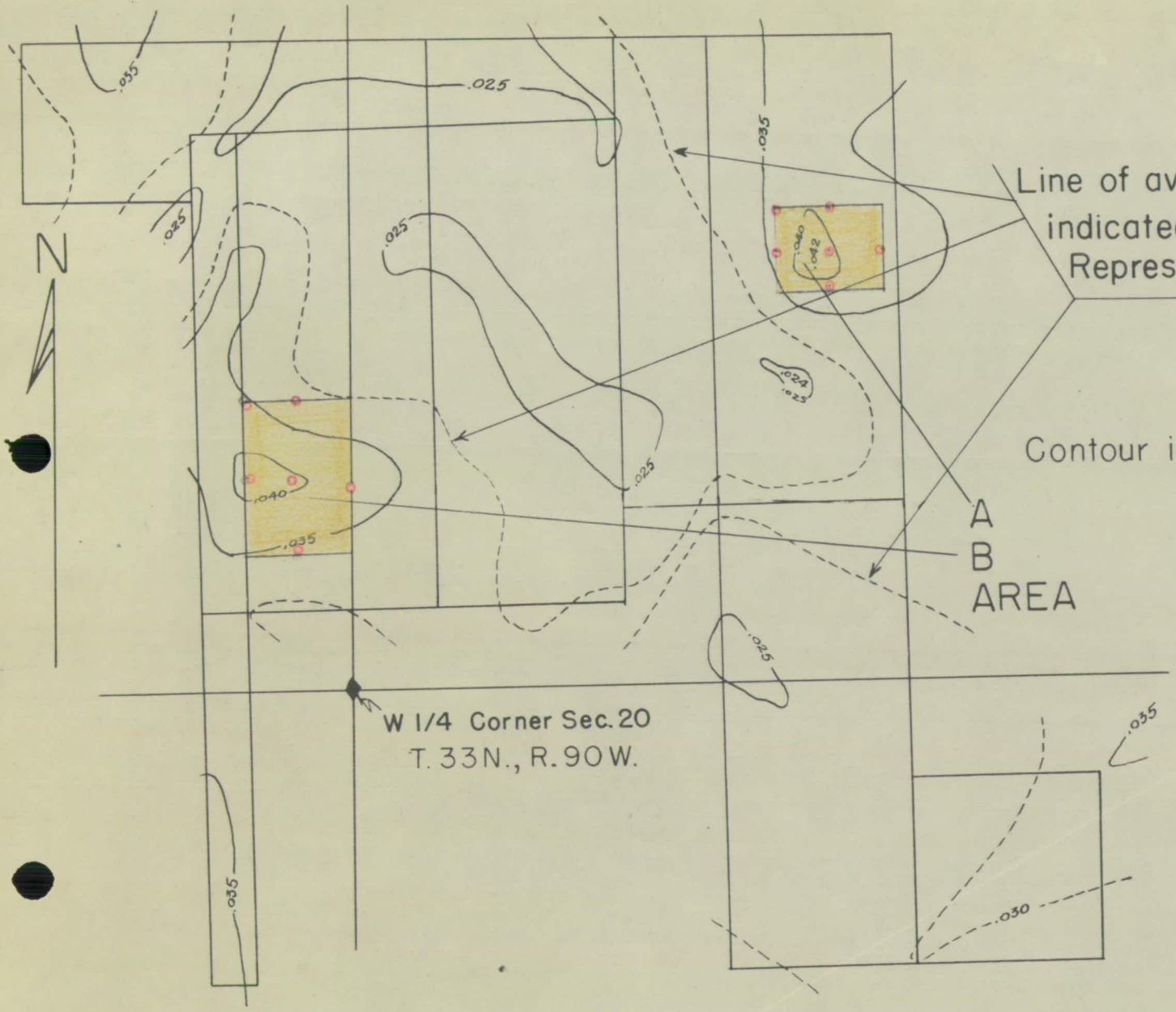
The receipt of your application dated October 31, 1955, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4047 and referred to the Rare & Misc. Metals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division



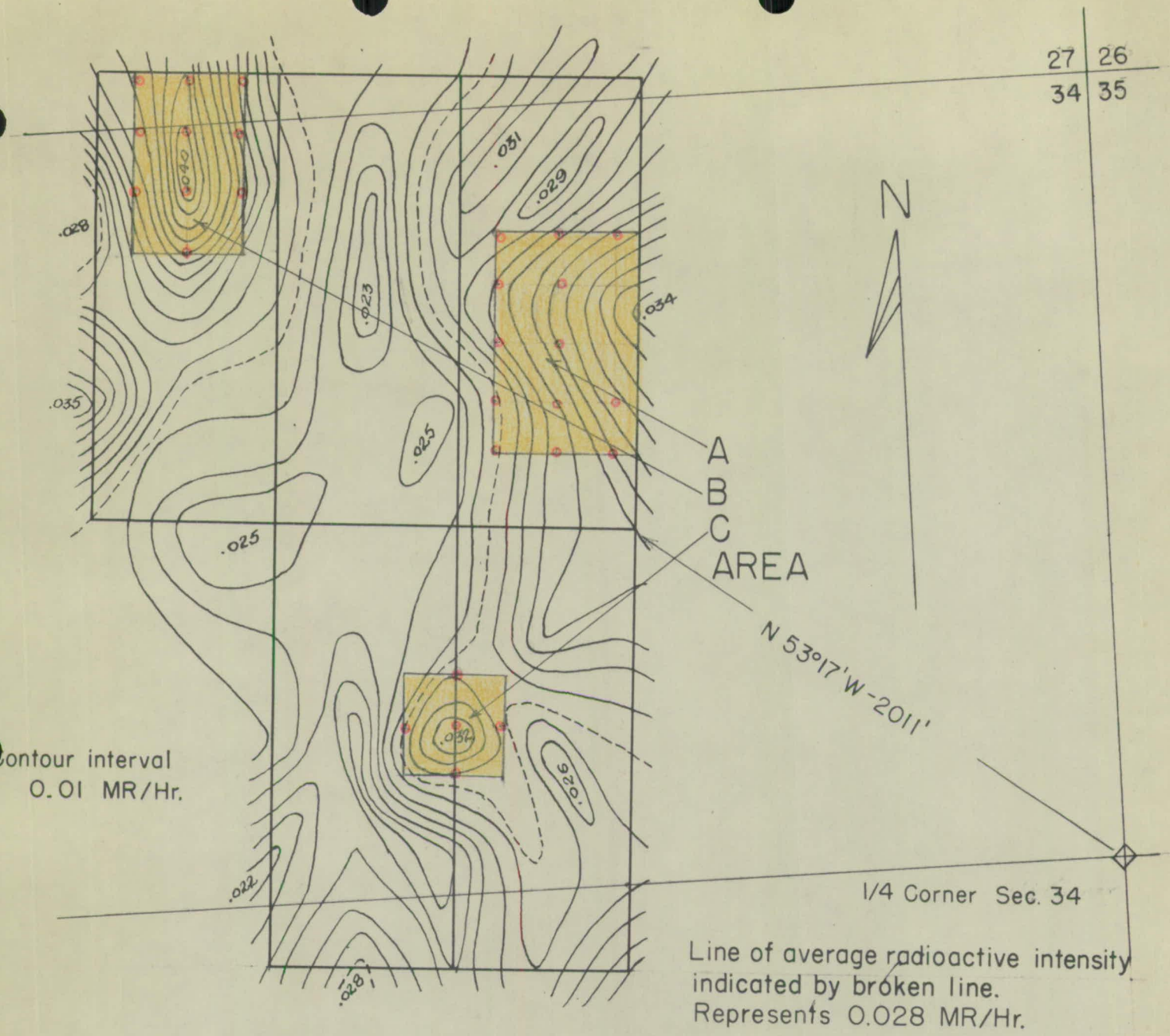
ISORAD MAP

CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
139 NORTH CLARK STREET
CHICAGO 2, ILLINOIS

PRINCE GROUP - Gas Hills District, Fremont County, Wyo.

CHARLES M. COLEMAN, et al.

August, 1955 Scale: 1" = 500'



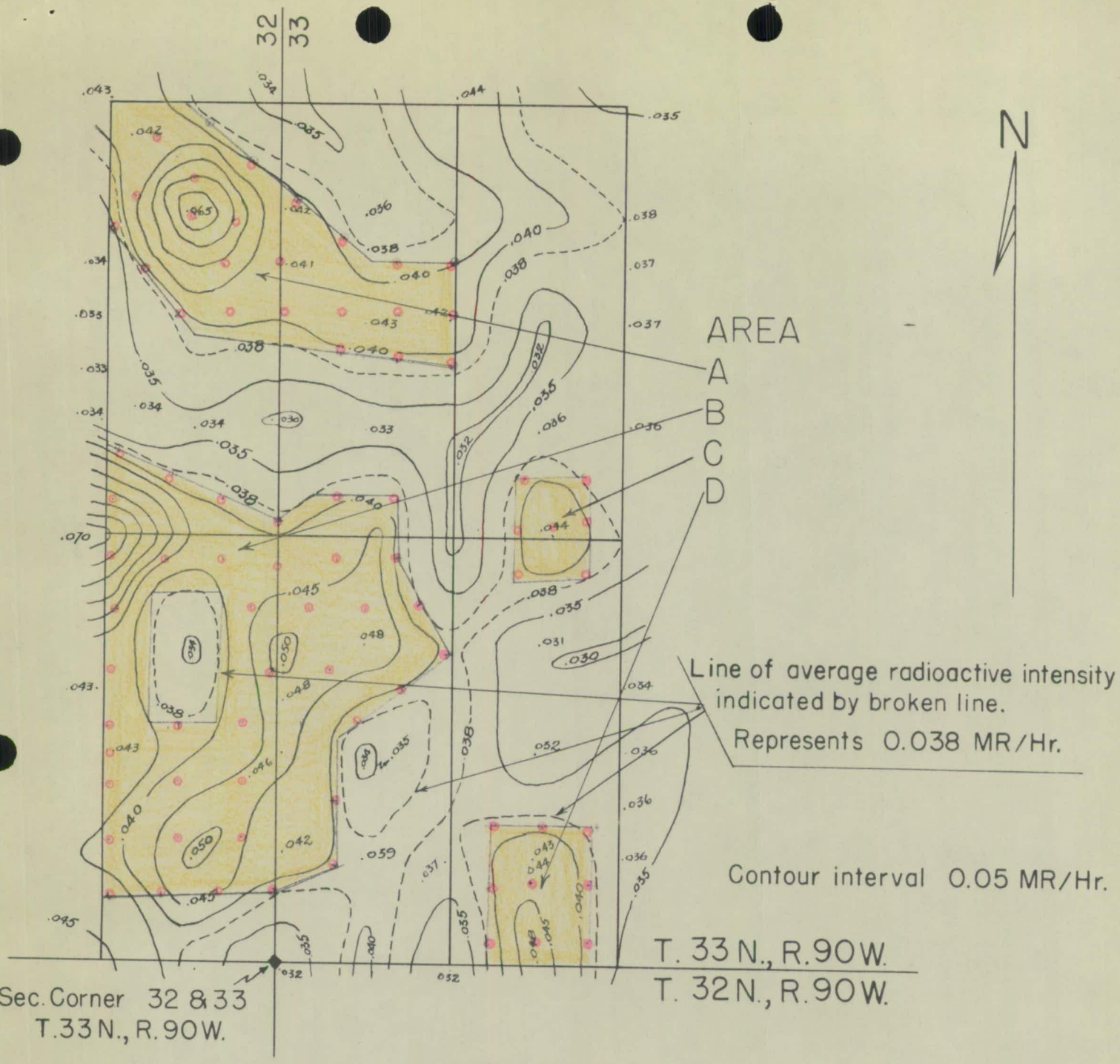
ISORAD MAP of LONGPORT GROUP

Gas Hills District, Fremont County, Wyoming

CHARLES M. COLEMAN, et al.

August, 1955 Scale: 1" = 500'

CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
139 NORTH CLARK STREET
CHICAGO 2, ILLINOIS



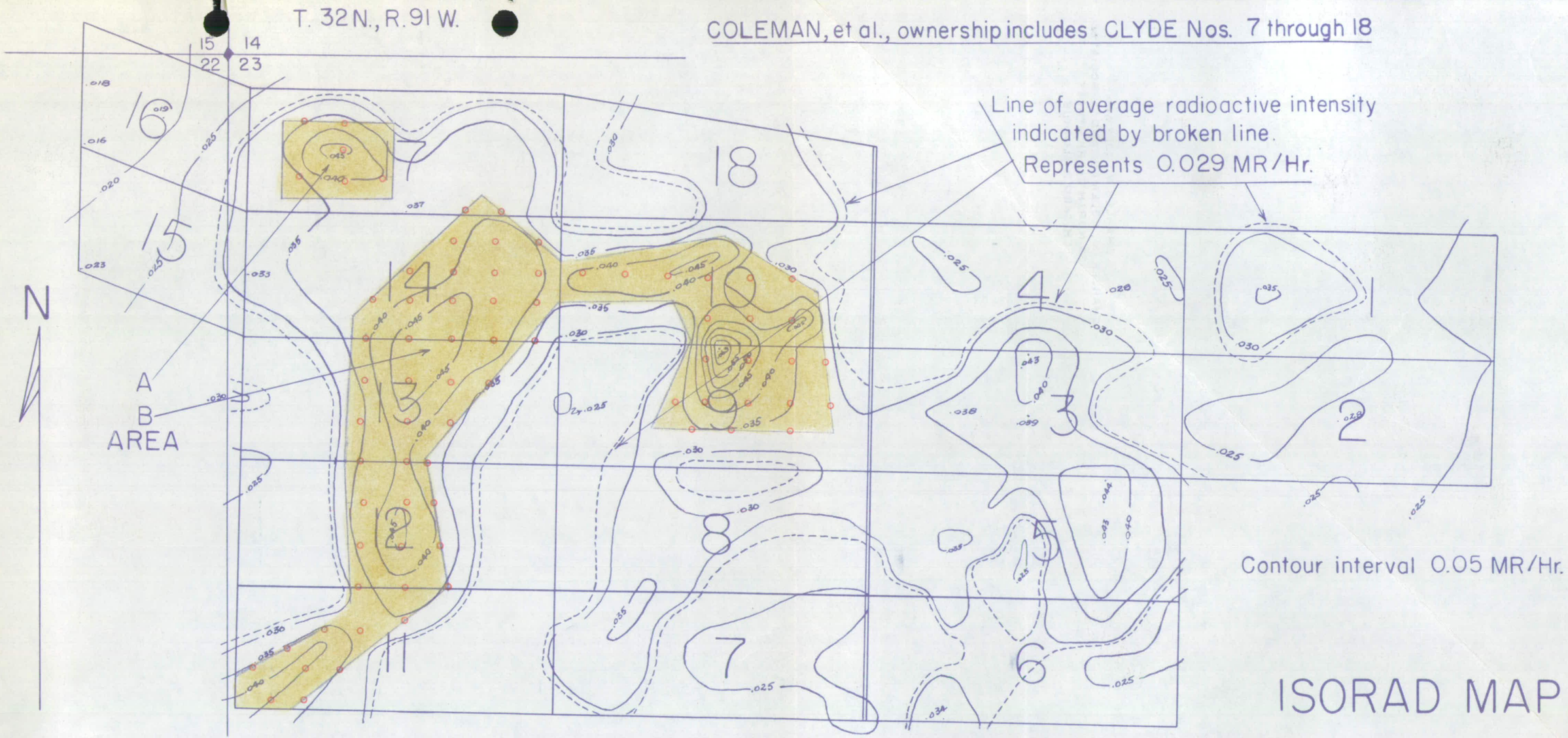
ISORAD MAP of MARSH GROUP

Gas Hills District, Fremont County, Wyoming

CHARLES M. COLEMAN, et al.

August, 1955 Scale: 1" = 500'

CHARLES M. COLEMAN
CHARLES M. COLEMAN AND ASSOCIATES
139 NORTH CLARK STREET
CHICAGO 2, ILLINOIS



CLYDE GROUP - Gas Hills District, Fremont County, Wyoming

CHARLES M. COLEMAN, et al.

August, 1955 Scale: 1" = 500'

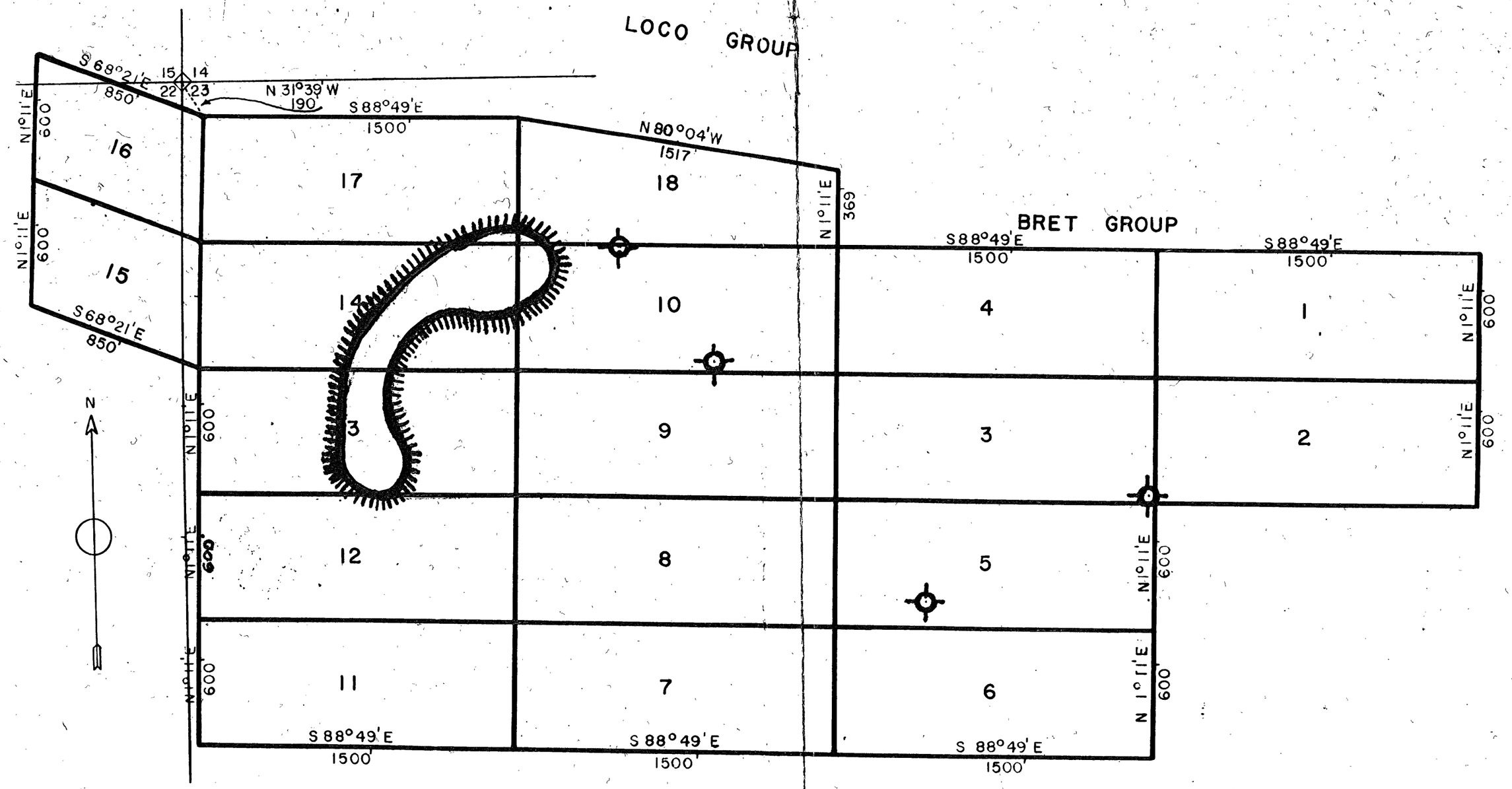
EXPLORATION ADMINISTRATION

[redacted]

OFFICIAL BUSINESS

U. S. GEOLOGICAL SURVEY
SOUTH 157 HOWARD ST.
SPOKANE 4, WASHINGTON

Mr. George C. Selfridge
Chairman, Operating Committee
Defense Minerals Explor. Admin.
Department of the Interior
Washington 25, D. C.



CERTIFICATE OF SURVEYOR

STATE OF WYOMING)
COUNTY OF FREMONT) SS

I, Armand F. Allard, of Shoshoni, a licensed and practicing Land Surveyor, hereby certify that this map was made from notes taken during actual surveys made by me and Arnold Stowe, for whose work I stand responsible, between July 25 and December 5, 1954, and it shows correctly the lode claims of the Clyde Group as staked on the ground during said surveys.

Armand F. Allard

Land Surveyor, Wyo. License No. 133

LODE MINING CLAIMS

OF THE

CLYDE GROUP

SECS. 15, 22, 23, & 24 T32N R91W 6th P.M.

FREMONT COUNTY, WYOMING

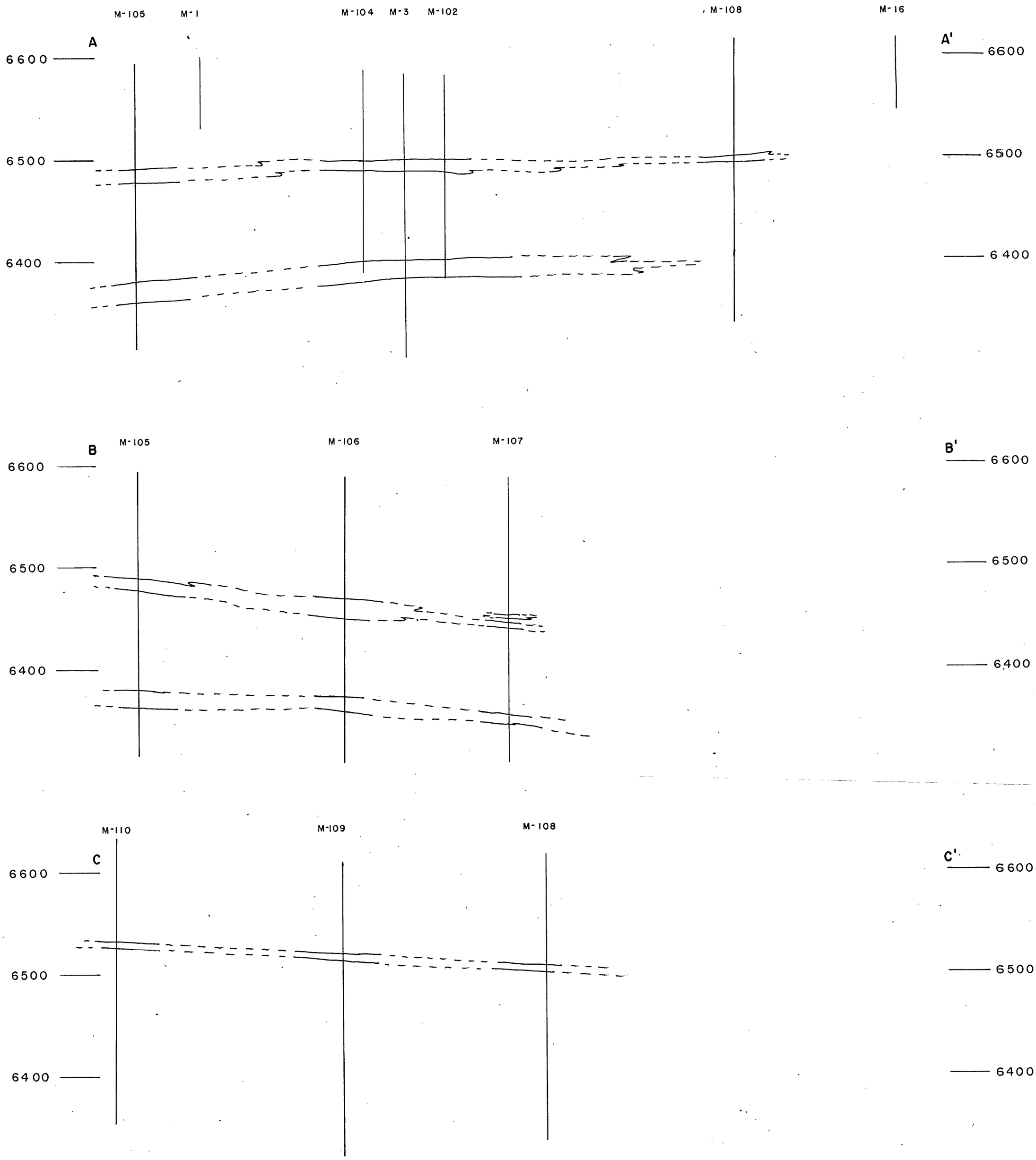
SCALE: 1 In. = 500 ft.

NOTE: ANOMALIES DESIGNATED ON THE U. S. ATOMIC ENERGY COMMISSION ANOMALY LOCATION MAP OF THE AREA HAVE BEEN PLATTED ON THIS SURVEY.

MARSH GROUP

CROSS SECTION MAP

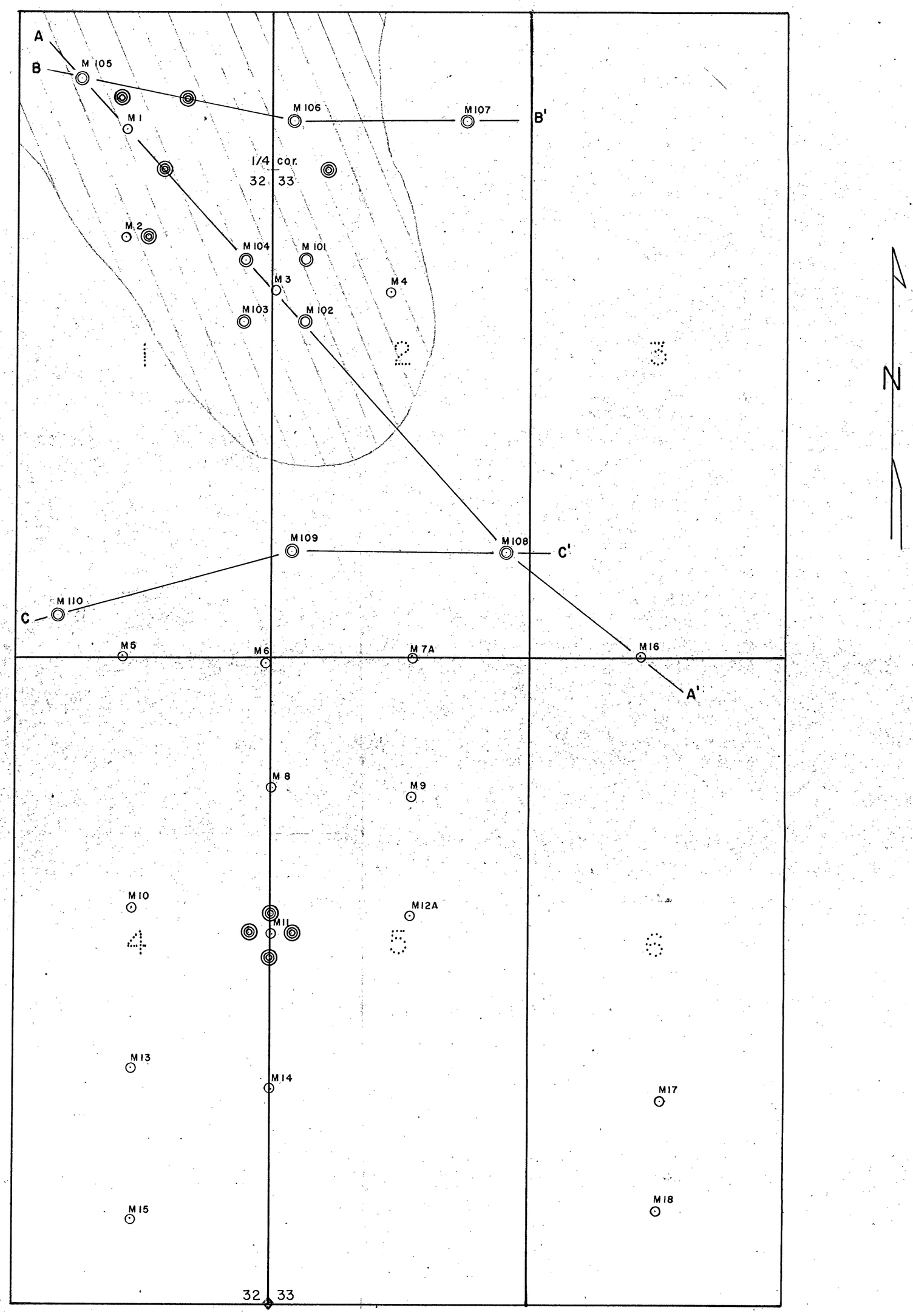
SHOWING "BLUE CLAY" ZONES



MARSH GROUP

SECS. 32 & 33, T 33N, R 90 W

FREMONT COUNTY, WYOMING



STAGE I. HOLES DRILLED ○

STAGE II HOLES DRILLED ◎

STAGE III HOLES PROPOSED ◎

CROSS SECTIONS A ——— A'

SCALE 1" = 200'

DATE 1/15/57

BY [illegible]

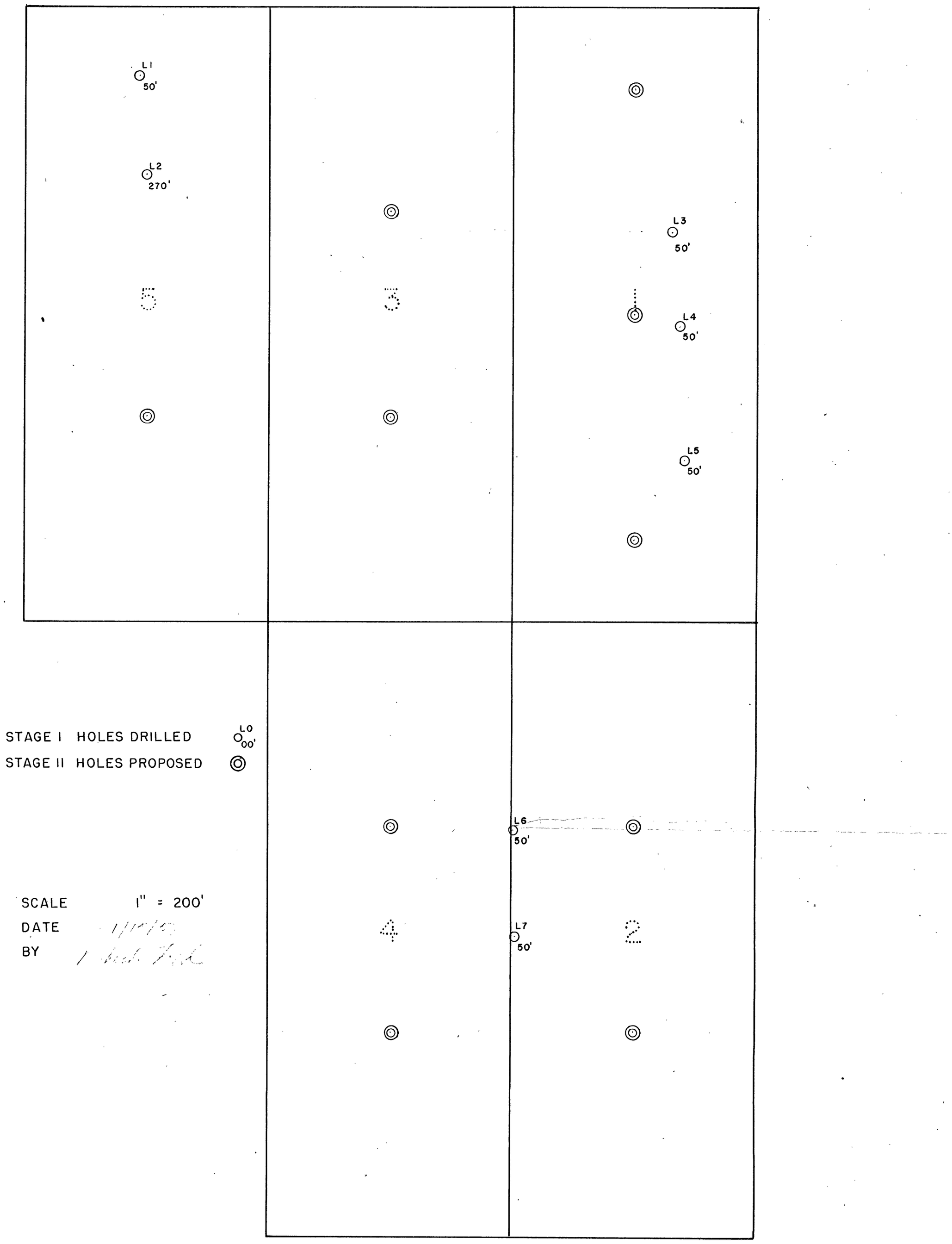
FOR

CHARLES M. COLEMAN & ASSOCIATES

LONGPORT CLAIM GROUP

SEC. 34, T. 33N., R. 90W.

FREMONT COUNTY, WYOMING

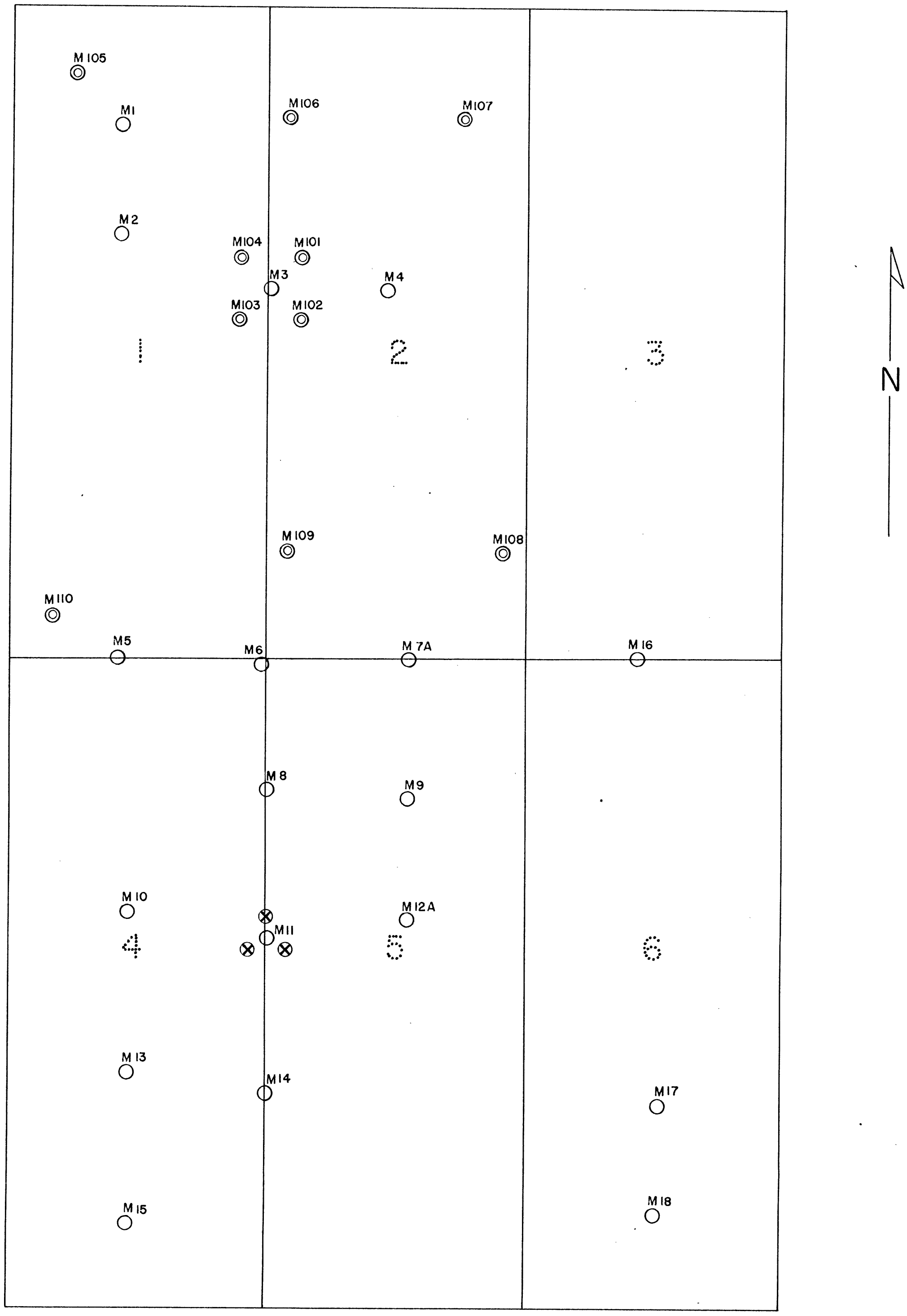


CHARLES M. COLEMAN & ASSOCIATES

MARSH CLAIM GROUP

SECS. 32 & 33, T 33N, R 90 W

FREMONT COUNTY, WYOMING



STAGE I HOLES DRILLED ○ M2

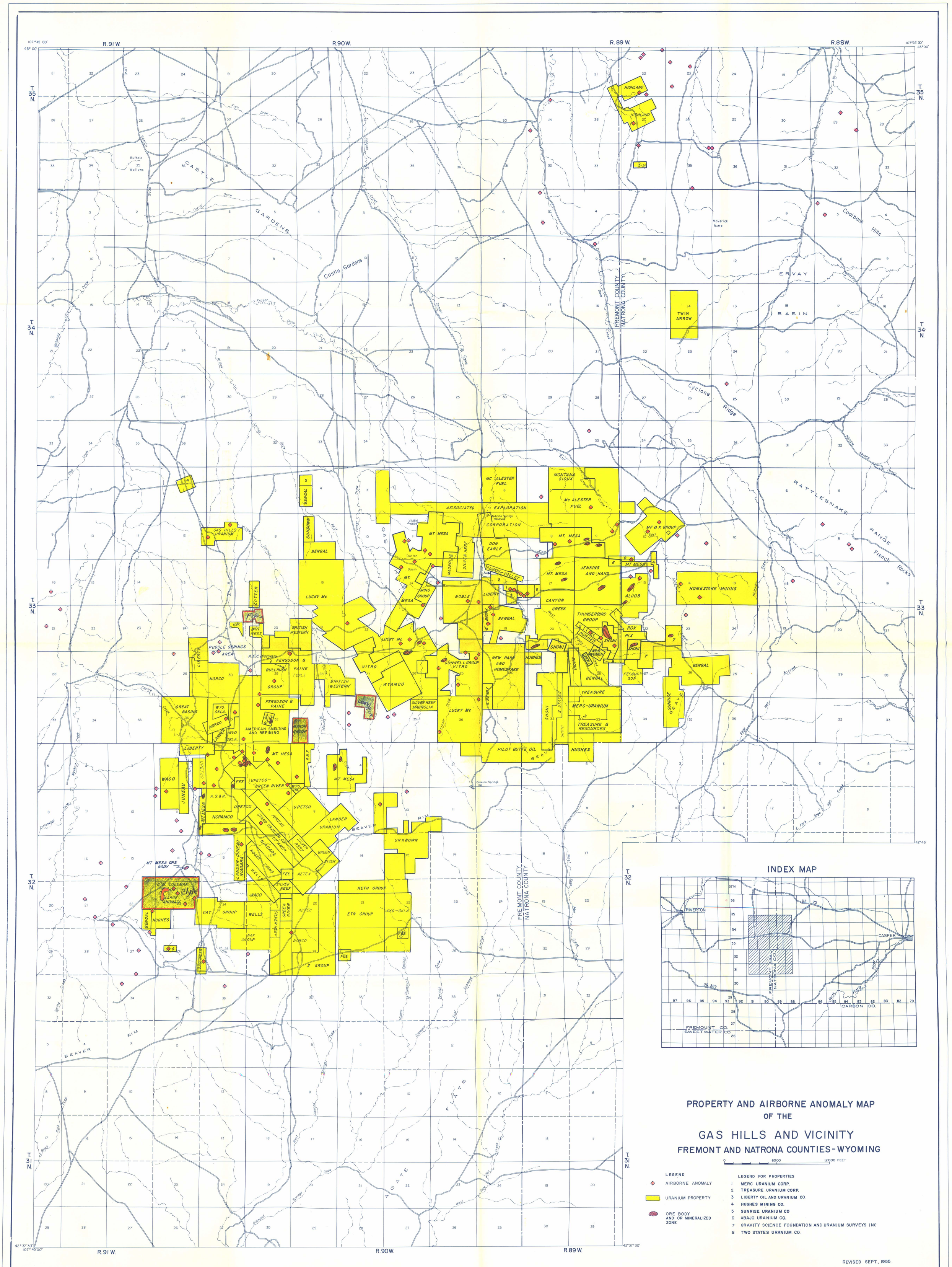
STAGE II HOLES DRILLED ◎ M101

STAGE III HOLES PROPOSED ⊗

SCALE 1" = 200'

CHARLES M. COLEMAN & ASSOCIATES

DMEA DOCKET 4047


R.91 W.
R.90 W.
R.89 W.
R.88 W.
T. 35 N.
T. 34 N.
T. 33 N.
T. 32 N.
T. 31 N.
107°45'00"
43°00'
107°22'30"
42°45'
42°37'30"
CASTLE GARDENS
Castle Gardens
Buffalo Wallows
Maverick Butte
Coalbank Hills
ERVAY BASIN
Cyclone Ridge
RATTLESNAKE RANGE
French Rocks
BEAVER RIM
GAS HILLS
AGATE FLATS
FREMONT COUNTY
NATRONA COUNTY
HIGHLAND
TWIN ARROW
MC ALESTER FUEL
MONTANA SIOUX
ASSOCIATED EXPLORATION CORPORATION
MT MESA
DON EARLE
JENKINS AND HAND
MF & K GROUP
HOMESTAKE MINING
GAS HILLS URANIUM
SUNDOWN
BENGAL
LUCKY Mc
COTTER
BRIT. WEST
BRITISH WESTERN
PUDDLE SPRINGS AREA
A.E.C. Discovery
FERGUSON & PAINE
BULLRUSH GROUP
NORCO
GREAT BASINS
WYO. OKLA.
LANDER
AMERICAN SMELTING AND REFINING
MARSH GROUP
VITRO
WYAMCO
GUNNELL GROUP
NEW PARK AND HOMESTAKE
SILVER REEF MAGNOLIA
LIBERTY
NOBLE
CANYON CREEK
THUNDERBIRD GROUP
ALUOB
ROX
PIX
SHONI
HUGHES
WILD WOMEN
FERGUSON
TREASURE
MERC-URANIUM
TREASURE & RESOURCES
SUNRISE
BEAVER
PILOT BUTTE OIL
WACO
JUNEAU
UPETCO
UPETCO-GREEN RIVER
A.S.&R.
NORAMCO
STANO URANIUM CO.
OPAMER
NIAGARA
LANDER-JUNEAU-NIAGARA
ROGER EVANS
WELLS
SILVER REEF
GREEN RIVER
AZTEX
LANDER URANIUM
UNKNOWN
MT MESA ORE BODY
COLEMAK
LARGE ANOMALY
DAY GROUP
NAK GROUP
Z GROUP
RETH GROUP
ETR GROUP
WYO-OKLA
INDEX MAP
RIVERTON
CASPER
US 20
US 287
FREMONT CO.
NATRONA CO.
CARBON CO.
SWEETWATER CO.
PROPERTY AND AIRBORNE ANOMALY MAP
OF THE
GAS HILLS AND VICINITY
FREMONT AND NATRONA COUNTIES - WYOMING
0 6000 12000 FEET
LEGEND
AIRBORNE ANOMALY
URANIUM PROPERTY
ORE BODY AND OR MINERALIZED ZONE
LEGEND FOR PROPERTIES
1 MERC URANIUM CORP.
2 TREASURE URANIUM CORP.
3 LIBERTY OIL AND URANIUM CO.
4 HUGHES MINING CO.
5 SUNRISE URANIUM CO
6 ABAJO URANIUM CO.
7 GRAVITY SCIENCE FOUNDATION AND URANIUM SURVEYS INC
8 TWO STATES URANIUM CO.
REVISED SEPT, 1955
Prepared by: Western States Map Co., 345 So. State, Salt Lake City, Utah. COPYRIGHT FEB 1 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GAS HILLS QUADRANGLE
WYOMING
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey as part of the Department of the Interior program for the development of the Missouri River Basin

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1949. Field check 1952

Polyconic projection. 1927 North American datum
10,000-foot grid based on Wyoming coordinate system, west central and east central zones

Dashed land lines indicate approximate locations

16°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1952

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

WYOMING
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy-duty — 4 LANE | 6 LANE
Medium-duty — 4 LANE | 6 LANE
Light-duty
Unimproved dirt
U. S. Route
State Route

GAS HILLS, WYO.
N4245—W10730/7.5

1952

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY, FEDERAL CENTER, DENVER, COLORADO OR WASHINGTON 25, D. C.

A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

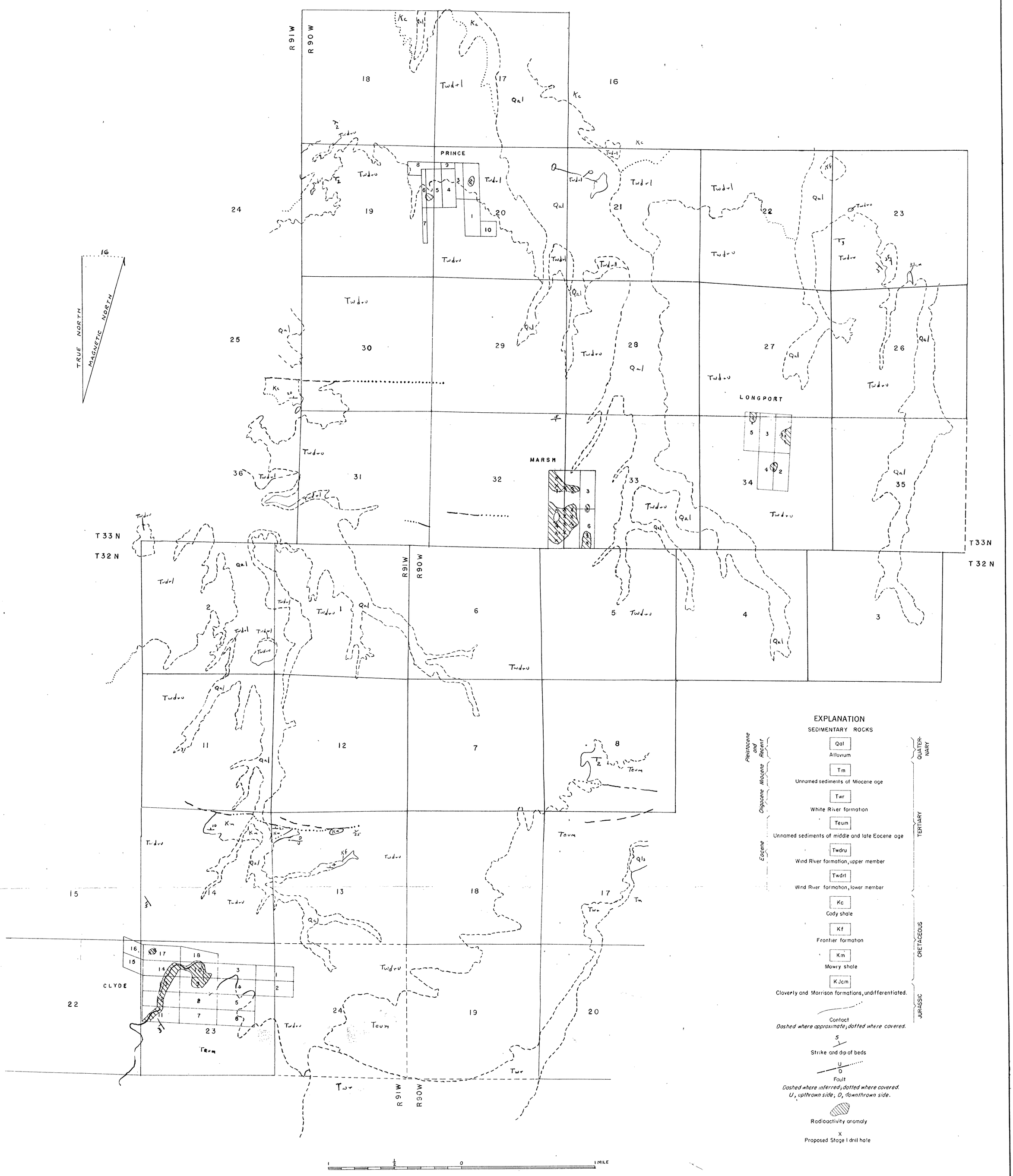


FIG. 2 EXPLORATION MAP SHOWING GEOLOGY, LOCATIONS OF CLYDE, LONGPORT, MARSH, AND PRINCE CLAIM GROUPS, CHARLES M. COLEMAN AND ASSOCIATES, FREMONT CO., WYO. DMEA 4047

Geology after H.D. Zeller and P.E. Soister, U.S. Geological Survey.