FINAL DISTRIBUTION
MADE AUG 9 1957

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III
[redacted]
Administrative Audit Difference Statement

[redacted]

Date: [redacted]
Payee's Reference: [redacted]

[redacted]

DMEA-4411

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $ [redacted]

Difference $ _____

Amount Approved $ [redacted]

The reason for the difference was due to:

[redacted]

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DATE	INITIALS	CODE
8/15	[illegible]	700

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-III-B & F Form No. 4
4-15-52 D

224 New Customhouse
Denver 2, Colorado

August 7, 1957

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DATE | CODE

Memorandum

To: T. A. Christensen

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

Subject: DMRA Docket-4411, (Uranium), Contract Ida-K1052, Treasure Uranium and Resources, Inc. (NW¼, Sec. 9, T 13 N, R 9 W, NMPM) McKinley County, New Mexico - Operator's Monthly Progress Report for the month of June, 1957

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Operator's Narrative Report, and Engineer's Report for the above period.

The work is being performed partly under independent subcontract and partly at fixed unit costs. The drilling and standby costs are as low or lower than the rates contained in the lowest and best bid submitted with the application. Although provided for in the contract no bulldozer work has been performed. Under the circumstances the costs for the work performed under independent subcontract are considered to be reasonable.

We consider that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Payment is recommended for 75 percent of the amount reported on Form MF-104 for June, 1957, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations, except for the following deduction :

<u>Withheld</u> an amount of $500.00 pending resolution of matters which are prerequisite to closing the account.

Note: Eight of the holes completed during June, 1957, penetrated more than five feet into the Westwater Canyon member of the Morrison formation. The excess footage and costs were not reported by the Operator on Forms MF-104 and MF-104A, therefore no adjustment for the excess drilling is required.

Remarks:

Date of Report----------July 20, 1957
Date Received in Field Office----------July 25, 1957
Date Received in Region Office----------July 30, 1957

Original signed by
E. N. HARSHMAN
E. N. Harshman

ENCLOSURES

JDC:hsh

cc: Chmn. Op. Comm. (2)
DMEA/BPC
MF-104 file, Reg.III
} w/copy of complete report

Harshman
DMEA/G.Jct.
Hasler
Townsend
Chron.
} w/copy of Engr's report

DMEA

EPARTMENT OF THE INTERIOR

REGION III

JUL 30 1957
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado
July 29, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: W. D. McMillan

Subject: DMEA Docket 4411 (Uranium) Contract Idm-K1052, Treasure Uranium and Resources, Inc., NW¼ sec. 6, T. 13 N., R. 9 W., NMPM, McKinley County, N. M. -- Progress report for June 1957

An inspection of progress was made on June 4, 1957, accompanied by Max Hemminger, geologist for the applicant.

During June 1957, 12 non-core drill holes on Stage II were completed. Summary data on the 12 completed holes are given in the following table:

Hole No.	Non-core feet	Approved Footages Recapture feet	Excess Recap. ft.	Mineralization % U_3O_8 Gamma Ray	Chemical
I-11	442.0	8.0	3	Nil to trace	
H-4.5	452.0	4.0	0	Nil to 0.015	
I-13.5	462.0	6.0	1	Nil to 0.025	400.0-410-0.013
H-11	472	17.0	12	Nil to trace	
I-4.5	435.0	4.0	0	Nil to trace	
C-8.75	392.0	3.5	0	Nil to trace	
D-11	396.0	2.5	0	Nil to 0.010	
B-65	382.0	6.0	1	Nil to trace	
J-6.5	450.0	8.0	3	Nil to 0.025	380.0-396.0-0.027
D-2	402.0	8.0	3	Nil to trace	
H-2	436.0	6.0	1	Nil to 0.030	
C-13.5	402.0	6.0	1	Nil to 0.060	338-342-0.014
	5,123.0		25		
less	25				
approved	5,098				

The locations of all holes were checked in the field. Bit size was 4¼ to 4½ inches. Two foot samples were collected from the approximate middle of the Brushy Basin member through the Westwater member of the Jurassic Morrison formation. Holes were bottomed in the Recapture member.

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The operator's narrative report was adequate with drill hole tabulations, drill hole structure maps, lithologic logs and NP-104's in quintuplicate and assay certificates and drilling contractor's invoices in duplicate. Only one copy of the driller's logs were submitted and these are being retained in this office.

Eight of these holes had excess footage of 25 feet in the Recapture member in excess of the contract specifications of 5 feet, as shown in the table of summary data, as compared with 27 feet excess shown on page 3 of the drill hole tabulation sheet.

The following cost items are recommended as allowable, these being the same as claimed by the operator:

5096 ft. of non-core drilling at $0.84/ft.	$4,280.64
Standby time, 5 hrs. at $12.00/hr.	60.00
Chemical analyses - 11 at $5.00/ea.	55.00
Incidental allowances - 5096 ft. at $0.20/ft.	1,019.20
Total allowable cost	$5,414.84

It is recommended that 75 percent of the total allowed costs or $4,061.13 be approved for payment.

In the narrative report the operator stated that exploration had not penetrated any uranium ore, but felt that a minimum of three additional holes should be drilled to complete the exploration. The operator has been requested to submit in quintuplicate a request for this additional work.

W. B. McMillan
Mining Engineer

WBM/mw
cc: 6
Idm-21052
chron

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

Budget Bureau No. 42-R1036.5

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

Month of June, 1957 Docket No. DMEA 4411 Contract No. Idm-E105
Operator's Name Treasure Uranium & Resources, Inc. Minerals Uranium
Address 531 South State Street, Salt Lake City, Utah
Contract Amount, $25,832.00 Government Participation: 75 % Amount, $19,374.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling	$4280.64	$9668.01	$13,948.65			
Bulldozing						
Crosscutting						
Drifting						
Standby Time	60.00	60.00	126.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
~~Sampling and~~ Analysis	55.00	35.00	90.00			
Payroll Taxes						
Liability Insurance						
Core Boxes		140.00	140.00			
Incidental Allow.	1019.20	3120.99	4140.19			
(8) Contingencies (specify):						
TOTALS	$5414.84	$13,030.00	$18,444.84	5,414.84	13,030.00	18,444.84

RECEIVED AUG 13 1957 D.M.E.A.

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

Date July 30, 1957 *Payee Treasure Uranium & Resources Inc

Per J. H. Robinson Title Managing Director

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

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

(Instructions on reverse)

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

$3561.13

Signature [illegible]
(Authorized Certifying Officer)

Date 8/8/57 Voucher 58-13

(See other side)

Note: Withhold 500.00

317099

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E 105 in accordance with the terms of the contract.

Signature Wm. McLean (S 406.13) Title Min. Engr. Date 7/29/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title acting Executive Officer Date AUG 7 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

104A

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1957 Docket No. DMEA 4411 Contract No. Idm-E1052

Operator's Name Treasure Uranium & Resources, Inc. Minerals Uranium

Address 531 South State Street, Salt Lake City 11, Utah

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft	--	--	4112.25	1370.75	3.00	1510	4.00
~~Chem~~ Plug	ft	4280.64	5096	9836.40	11,064.75	.84	13580	1.00
~~Auger~~ Standby	hr	60.00	5	126.00	10.5	12.00	34	12.00
~~Stripping~~ Chem. Anal.	ea	55.00	11	90.00	18	5.00	66	5.00
~~Trenching~~ Core Boxes	ea	--	--	140.00	112	1.25	150	1.25
Test Pits								
Roads and Trails							1140 @	.20
Incidental Allow.	ft	1019.20	5096	4140.19	13,080.75		3550 @	.65
TOTAL DISTRIBUTED COSTS		$5414.84		$18,444.84				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$5414.84		$18,444.84				

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

Date July 29, 1957 Operator Treasure Uranium & Resources Inc

Per B H Robinson Title Managing Director

REMARKS: Washing out (standby) costs on hole G-11, a total of 11 hours, are not listed since the work was done at the operator's request.

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

(Instructions on reverse)

(For Government use only) Verne Mullen

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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

DMEA
DEPARTMENT OF THE INTERIOR
JUL 23 1957
REGION III
DENVER, COLORADO

Treasure
URANIUM AND RESOURCES, INC.
531 SOUTH STATE STREET — SALT LAKE CITY 11, UTAH
PHONE EM 4-3426

July, 1957

Narrative Report

During June, 1957, twelve plug drill holes were completed on the NW¼ Sec. 6, T15S, R9W, McKinley County, New Mexico. Total footage drilled was 5,193 feet. Of this amount, 27 feet were drilled to excessive depths into the Recapture member leaving the total amount of footage authorized a total of 5,066 feet. Drilling was in progress at the beginning of the month and the last hole was bottomed on June 10. Drilling was done with two Mayhew 1500 drill rigs operated by Four Corners Exploration Company of Grants, New Mexico.

The twelve holes completed during were the last of twenty three holes authorized in stage 2, Contract Idm-81052, DMEA Docket 4411.

All holes were plug drilled to the total depth and all holes were bottomed in the Recapture member of the Morrison formation of Jurrassic age. Bit size was 4¾-4⅝ inches. Two foot samples were collected from the approximate middle of the Brushy Basin shale member to the total depth. These samples are properly labeled and stored with Four Corners Exploration Company a few miles west of Grants, New Mexico.

All holes were probed for gamma radiation and cuttings showing significant mineralization were assayed chemically for uranium.

A lithologic log was made of each hole and a drill hole structure map of the area was prepared.

All holes required water as a drilling fluid in order to be bottomed. Holes I-11 and C-8.75 were each skidded lessthan eight feet after attempts to remove metal objects from each hole failed.

The accompanying drill hole map and the lithologic logs show the lithology, location and mineralization of the holes drilled. Two of the holes drilled during June showed significant mineralization.

At the present time no drill holes in this area have penetrated any uranium ore horizons. It is felt that any future drilling in this area should be concentrated in the areas of general mineralization and more particularly at locations D-4.5, E-6.5 and J-6.75. It is felt that holes located at these three location are the minimum amount needed to complete the basic exploration on this quarter section.

Max Hemminger
Max Hemminger
Geologist

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DRILL HOLE TABULATION SHEET

(Holes drilled on NW¼ Sec. 6, T13N, R9W, McKinley County, New Mexico during June, 1957.)

Hole	Completed	From	To	%U3O8	Total Depth	Excess Depth
1-11	6/1	0.0	355.0	0	422	3
		335.0	337.0	Tr		
		337.0	374.0	0		
		374.0	376.0	Tr		
		376.0	408.0	0		
		408.0	423.0	Tr		
		423.0	442.0	0		
H-4.5	6/1	0.0	313.0	0	452.	0
		313.0	317.0	Tr		
		317.0	342.0	0		
		342.0	344.0	.015		
		344.0	366.0	0		
		366.0	369.0	Tr		
		369.0	452.0	0		
I-13.5	6/3	0.0	372.0	0	462	2
		372.0	376.0	Tr		
		376.0	380.0	0		
		380.0	384.0	Tr		
		384.0	386.0	.01		
		386.0	400.0	Tr		
		400.0	410.0	.025	Chem-400.0 to 410.0-.013%	
		410.0	462.0	0		
H-11	6/4	0.0	433.0	0	472	12
		433.0	437.0	Tr		
		437.0	472.0	0		
I-4.5	6/4	0.0	318.0	0	435	0
		318.0	319.0	Tr		
		319.0	346.0	0		
		346.0	348.0	Tr		
		348.0	435.0	0		
C-8.75	6/6	0.0	309.0	0	392	0
		309.0	313.5	Tr		
		313.5	316.0	0		
		316.0	320.0	Tr		
		320.0	392.0	0		

DRILL HOLE TABULATION SHEET
(Continued)

(Holes drilled on NW¼ Sec. 6, T13N, R9W, McKinley County, New Mexico during June, 1957)

Hole	Completed	From	To	U_3O_8	Total Depth	Excess Depth
D-11	6/7	0.0	320.0	0	396	0
		320.0	328.0	Tr		
		328.0	331.5	0		
		331.5	333.0	.01		
		333.0	335.0	Tr		
		335.0	370.0	0		
		370.0	372.0	Tr		
		372.0	390.0	0		
B-6.5	6/8	0.0	360.0	0	382	1
		360.0	361.0	Tr		
		361.0	382.0	0		
J-6.5	6/8	0.0	311.0	0	450	3
		311.0	312.0	Tr		
		312.0	316.0	0		
		316.0	318.0	Tr		
		318.0	349.0	0		
		349.0	351.0	.01		
		351.0	378.0	0		
		378.0	379.0	.01		
		379.0	380.0	0		
		380.0	381.0	.025	Chem 380-382 .0215	
		381.0	383.0	.01	" 382-384 .022	
		383.0	384.0	.02	" 384-386 .016	
		384.0	387.0	.01	" 386-388 .016	
		387.0	388.0	.025	" 388-390 .027	
		388.0	391.0	.015	" 390-392 .022	
		391.0	392.5	.025	" 392-394 .015	
		392.5	395.0	.02	" 394-396 .018	
		395.0	396.0	.01		
		396.0	399.0	Tr		
		399.0	450.0	0		
D-2	6/9	0.0	354.0	0	450	3
		354.0	356.0	Tr		
		356.0	402.0	0		
N-2	6/10	0.0	308.0	0	436	1
		308.0	310.0	Tr		
		310.0	342.0	0		
		342.0	344.0	Tr		
		344.0	349.0	0		
		349.0	350.0	.03		
		350.0	436.0	0		

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DRILL HOLE TABULATION SHEET
(Continued)

(Holes drilled on NW¼ Sec. 6, T13N, R9W, McKinley County, New Mexico during June, 1957)

Hole	Completed	From	To	U_3O_8	Total Depth	Excess Depth
G-13.5	6/10	0.0	277.0	0	402	2
		277.0	279.0	.01		
		279.0	337.0	0		
		337.0	339.0	.02		
		339.0	341.0	.06	Chem 338-342-.014%	
		341.0	342.0	.05		
		342.0	345.0	.03		
		345.0	360.0	0		
		360.0	362.0	.01		
		362.0	402.0	0		

Total footage	5,123
Less Excess footage	27
Total authorized footage	5,096

FINAL DISTRIBUTION
MADE JUL 2 1957

224 New Customhouse
Denver 2, Colorado

June 27, 1957

EXTRA COPY DMEA RECEIVED		
DATE	INITIALS	CODE
7/8	JEF	~~710~~
	~~[illegible]~~	700

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket-4411, (Uranium) Contract Idm-E1052, Treasure Uranium and Resources, Inc., (NW¼ Sec. 6, T13N, R9W) McKinley County, New Mexico - Operator's Monthly Progress Report for the month of May, 1957

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Operator's Narrative Report, and Engineer's Report for the above period.

The work is being performed partly under independent subcontract and partly at "Fixed Unit Costs." The reported costs for drilling and standby time are as low or lower than the rates contained in the lowest and best bid submitted with the application, therefore the reported costs are considered to be reasonable.

We consider that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Payment is recommended for 75 percent of the amount reported on Form MF-104 for May, 1957, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

The Operator performed a total of 10 feet of excess drilling in six of the eleven holes completed during May, but did not report the excess footage and costs on Forms MF-104 and MF-104A.

Remarks:

Date of Report----------June 18, 1957
Date Received in Field Office----------June 24, 1957
Date Received in Region Office----------June 26, 1957

Original signed by
W. H. KING

W. H. King

Enclosures
JDC:hmh
cc: Chmn. Op. Comm. (2)
DMEA, DFC
Harahman - w/copy of Engr's report
MF-104 file, Reg. III
Chron.

DMEA
DEPARTMENT OF THE INTERIOR

REGION III

JUN 26 1957
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado
June 25, 1957

EXTRA COPY
DMEA
RECEIVED 6/26/57

DATE	INITIALS	CODE

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: W. D. McMillan

Subject: Docket DMEA 4411 (Uranium) Contract IAm-11052, Treasure Uranium and Resources, Inc., NW¼ Sec. 6, T. 13 N., R. 9 W., NMPM, McKinley County, New Mexico -- Progress report for May 1957

An inspection of progress was made on June 4, 1957, accompanied by Max Hemminger, geologist for the applicant.

During May 1957, 11 holes were completed on Stage II, and the remaining twelve holes of Stage II were also completed on June 4, 1957.

Summary data on the 11 completed holes are given in the following table:

Summary Data of May Drill Holes, NW¼, Sec. 6, T. 13 N., R. 9 W., NMPM

Hole No.	Non-Core Footage	Recapture Footage	Excess Recapture Footage	Mineralization Gamma Ray	% U_3O_8 Chemical
E-11	394	8.0	3.0	0.0 to trace	
E-13.5	404	5.0	1.0	"	
F-13.5	410	5.0	-	"	
G-13.5	444	5.0	-	"	
G-11.0	439	5.0	-	"	
G-8.75	434	6.0	1.0	0.0 to 0.015	
F-8.75	412	7.0	2.0	0.0 to 0.035	3.5'-0.038 11.0'-0.012
F-6.5	416	5.0	-	0.0 to trace	
F-4.5	408	2.0	-	0.0 to 0.010	
E-8.75	401	6.0	2.0	0.0 to 0.025	
	4608		10.0		
	- 10				
	4598 approved				

The locations of all holes were checked in the field. Bit size was 4¼ to 4½ inches. Two-foot samples were collected from the approximate middle of Brushy Basin and Westwater Canyon members of the Jurassic Morrison formation and were bottomed in the Recapture member.

The operator's narrative report was adequate with drill hole tabulations, drill hole structure maps, lithologic logs, and MF-104's in quintuplicate, assay certificates, drilling contractor's invoices in duplicate. Only one copy of the driller's logs were submitted and these are being retained in this office.

Six of the 11 holes had excess footage of 10 feet in the Recapture member in excess of the contract of 5 feet as shown in the table of summary data.

The following cost items are recommended as allowable:

4598 feet of non-core drilling at $0.84 a foot	$3862.32
Standby time, 2 hours at $12.00/hr.	24.00
Chemical analyses, 2 at $5.00/ea.	10.00
Incidental allowance, 4598 ft. at $6.20/ft.	919.60
Total approved costs	$4815.92

It is recommended that 75 percent of the approved total or $3611.94 be approved for payment.

W. D. McMillan
Mining Engineer

WDM/mw
cc: 6
Idm-21052
chron

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

Budget Bureau No. 42-R1036.5

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

Month of May, 1957 Docket No. DMEA 4411 Contract No. Ida-E1058

Operator's Name Treasure Uranium Resources Inc. Minerals Uranium

Address 51 South State Street, Salt Lake City 11, Utah

Contract Amount, $ 53,000.00 Government Participation: 75 % Amount, $ 15,374.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contractors: Short Form						
Drilling	3862.32	5805.69	9668.01			
Bulldozing						
Crosscutting						
Drifting						
Hourly time	18.00	50.00	68.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	10.00	15.00	25.00			
Payroll Taxes						
Liability Insurance						
Core Boxes		140.00	140.00			
Incidental Allow	919.60	2201.31	3120.99			
(8) Contingencies (specify):						
TOTALS	4815.92	8214.08	13030.00	4815.92	8214.08	13,030.00

RECEIVED D.M.E.A. JUL 5 1957

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

Date June 18, 1957 *Payee Treasure Uranium Resources Inc

Per J. H. Johnson Title Managing Director

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

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

(Instructions on reverse)

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

$ 3611.94

Signature [illegible]
(Authorized Certifying Officer)

Date 6/28/57 Vou. No. DMA 57-143

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E 165 in accordance with the terms of the contract.

Signature W D McMillan ($3611.94) Title Min. Engr Date 6/25/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W H King Title Executive Officer Date JUN 27 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1957 Docket No. DMEA 4411 Contract No. 1on-[illegible]

Operator's Name Treasure Uranium & Resources Inc. Minerals Uranium

Address 511 South State Street, Salt Lake City 11, Utah

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft			[illegible]	1370.75	[illegible]	1510	4.00
Churn plug	ft	3862.32	4598	5555.76	5968.75	.84	[illegible]	1.00
Auger Crumbly	hr	44.00	[illegible]	66.00	5.5	12.00	24	12.00
Stripping Thermal	ea	10.00	[illegible]	35.00	7	5.00	66	5.00
Trenching Cor. Boxes				146.00	11[illegible]	1.[illegible]	150	1.25
Test Pits								
Roads and Trails							[illegible].65	2500 units
Incident 1 Allo.	ft	919.60	4598	3120.99	7984.75		[illegible].40	11540units
TOTAL DISTRIBUTED COSTS		4815.92		13030.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		4815.92		13030.00				15,[illegible].00

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

REMARKS:

Date June 18, 1957 Operator Treasure Uranium & Resources Inc

Per R H Robinson Title Managing Director

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

(Instructions on reverse)

(For Government use only) W T McMullen.

RECEIVED JUL 5 1957 D.M.E.A.

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

Treasure
URANIUM AND RESOURCES, INC.
531 SOUTH STATE STREET — SALT LAKE CITY 11, UTAH
PHONE EM 4-3426

June 10, 1957

Narrative Report

During May, 1957, eleven drill holes were completed on the N½ Sec. 6, T13N, R9W, McKinley County, New Mexico. Total footage drilled was 4608 feet but ten feet were drilled to excessive distances into the Recapture member hence only 4598 feet were authorized. Drilling commenced May 14 and was continuous throughout the remainder of the month. Four Corners Exploration Company of Grants, New Mexico were contracted to do the drilling. Drilling was done with a Mayhew 1500 rig. During the latter part of the month another similar rig was brought into the area.

The eleven holes completed during May were a portion of the twenty three holes authorized in stage 2 of DMEA Contract I-dm-M1052, Docket 4411.

All holes were plug drilled to total depth and all holes were bottomed in the Recapture member of the Morrison formation of Jurassic age. Bit size was 4¾-4⅝ inches. Two foot samples were collected from the approximate middle of the Brushy Basin shale member to total depth. These samples are properly labeled and stored with Four Corners Exploration Company a few miles west of Grants, New Mexico.

All holes were probed for gamma radiation and cuttings showing significant mineralization were assayed chemically for uranium.

A lithologic log was made of each hole and a drill hole location and structure map of the area was prepared.

All holes required water as a drilling fluid in order to be bottomed. Hole F-11, after penetrating to the Dakota sandstone, was skidded less than eight feet after attempts to recover a wrench, accidentally dropped into the hole, failed.

The accompanying drill hole map and the lithologic logs show the lithology, location and mineralization of the holes drilled. The upper contact of the Dakota ss was so indefinite in some of the holes that the contouring horizon was changed to the top of the carbonaceous shale facies within the Dakota ss. This shale member was well developed and easily discernible in all of the holes.

Three of the eleven holes completed contained favorable weak mineralization and all holes north of an east-west line drawn through F-11 contained good amounts of bleached sands.

No mineraltrends were well enough developed to warrent a request for change of the location of the remaining drill sites.

RECEIVED JUL 6 1957 DMEA

Max Hemminger

Max Hemminger
Geologist

Treasure
URANIUM AND RESOURCES, INC.
531 SOUTH STATE STREET — SALT LAKE CITY 11, UTAH
PHONE EM 4-3426

DRILL HOLE TABULATION SHEET

(Holes drilled on NW¼ Sec 6, T13N, R9W, McKinley County, New Mexico during May, 1957.)

Hole	Completed	From	To	U_3O_8	Total Depth	Excess Depth
E-11	5/15	0.0	270.0	0	394'	3'
		270.0	274.0	Tr		
		274.0	312.0	0		
		312.0	314.0	Tr		
		314.0	324.0	0		
		324.0	326.0	Tr		
		326.0	334.0	0		
		334.0	350.0	Tr		
		350.0	394.0	0		
E-13.5	5/16	0.0	248.0	0	404'	1'
		248.0	249.0	Tr		
		249.0	291.0	0		
		291.0	292.0	Tr		
		292.0	380.0	0		
		380.0	384.0	Tr		
		384.0	404.0	0		
F-13.5	5/20	0.0	196.0	0	410'	0'
		196.0	197.0	Tr		
		197.0	387.0	0		
		387.0	390.0	Tr		
		390.0	410.0	0		
G-13.5	5/21	0.0	438.5	0	444'	0'
		438.5	439.0	Tr		
		439.0	444.0	0		
G-11	5/22	0.0	312.0	0	439'0	0'
		312.0	314.0	Tr		
		314.0	363.0	0		
		363.0	364.0	Tr		
		364.0	439.0	0		

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TREASURE URANIUM & RESOURSES INC.

DRILL HOLE TABULATION SHEET
(continued)

Hole	Completed	From	To	U_3O_8	Total Depth	Excess Depth
G-8.75	5/24	0.0	349.5	0	434'	1'
		349.5	353.0	Tr		
		353.0	360.0	0		
		360.0	362.0	0.01		
		362.0	363.5	0.015		
		363.5	365.0	0.01		
		365.0	394.0	0		
		394.0	399.0	0.01		
		399.0	408.0	Tr		
		408.0	434.0	0		
F-8.75	5/27	0.0	290.0	0	418'	2'
		290.0	291.0	0.015		
		291.0	310.5	0		
		310.5	314.0	Tr		
		314.0	321.5	0		
		321.5	324.0	0.01		
		324.0	327.5	0.05	(0.038 chem)	
		327.5	330.5	0.015		
		330.5	334.0	0.020		
		334.0	335.0	0.01		
		335.0	336.5	0.03		
		336.5	337.5	0.01		
		337.5	355.0	0		
		355.0	357.0	0.01		
		357.0	359.0	0.015		
		359.0	361.0	0.02		
		361.0	362.5	0.04		
		362.5	366.0	0.025		
		366.0	368.0	0.01	(0.012 chem)	
		368.0	370.0	0.06		
		370.0	372.0	0.04		
		372.0	374.0	0.015		
		374.0	378.0	0.01		
		378.0	398.0	0		
		398.0	400.0	Tr		
		400.0	418.0	0		
F-6.5		0.0	323.0	0	416'	0'
		323.0	325.0	Tr		
		325.0	358.0	0		
		358.0	360.0	Tr		
		360.0	412.0	0		
		412.0	414.0	Tr		
		414.0	416.0	0		

Treasure
URANIUM AND RESOURCES, INC.
531 SOUTH STATE STREET — SALT LAKE CITY 11, UTAH
PHONE EM 4-3426

DRILL HOLE TABULATION SHEET
(continued)

Hole	Completed	From	To	$\%U_3O_8$	Total Depth	Excess Depth
E-8.75	5/30	0.0	278.0	0	401'	2'
		278.0	279.0	0.01		
		279.0	298.0	0		
		298.0	314.0	Tr		
		314.0	338.0	0		
		338.0	344.0	0.01		
		344.0	346.0	0.025		
		346.0	348.0	0.02		
		348.0	350.0	0.01		
		350.0	364.0	0		
		364.0	366.0	Tr		
		366.0	370.0	0.01		
		370.0	372.0	Tr		
		372.0	392.0	0		
		392.0	398.0	Tr		
		398.0	401.0			
I-8.75	5/31	0.0	318.0	0	446'	1'
		318.0	322.0	Tr		
		322.0	324.0	0		
		324.0	326.0	Tr		
		326.0	410.0	0		
		410.0	413.0	0.020		
		413.0	415.0	0.025		
		415.0	446.0	0		
F-4.5	5/31	0.0	292.0	0	408'	0'
		292.0	294.0	Tr		
		294.0	311.0	0		
		311.0	312.0	0.01		
		312.0	327.0	0		
		327.0	329.0	0.01		
		329.0	338.0	0		
		338.0	341.0	Tr		

Total Footage	4,608'
Less Excess Footage	10'
Total Authorized Footage	4,598

FINAL DISTRIBUTION

MADE MAY 31 1957

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

Administrative Audit Difference Statement

Date: May 27, 1957
Payee's Reference: March 1957

DMEA-4411

[illegible]
[illegible]
[illegible]

Gentlemen:

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed	$	8,262.79
Difference	$	18.71
Amount Approved	$	8,244.08

The reason for the difference was due to:

Disallowances:

1. Core drilling.
   12.25 ft. excess core drilling @ 3.00 per foot. 36.75

2. Incidental Allowance.
   12.25 ft. drilling .65 per ft. 7.96

3. Core Boxes
   Claimed 112 core boxes at a total cost of 140.00
   Acceptable cost, 112 core boxes @ 1.25 per box 140.00
   Amount to be disallowed 4.00
   44.71

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

EXTRA COPIES
DMEA
RECEIVED JUN 3 1957

DATE	INITIALS	CODE
6/11	gd	110
6/12	[illegible]	700

R-III-B & F Form No. 4
4-15-52 D

224 New Customhouse
Denver 2, Colorado

May 24, 1957

EXTRA COPY

Memorandum

To: T. A. Christensen

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

Subject: DMEA Docket-4411, (Uranium) Contract Ida-E1052, Treasure Uranium and Resources, Inc., (NW¼, Sec. 6, T13N, R9W) McKinley County, New Mexico - Operator's Monthly Progress Report, for the month of March, 1957

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Operator's Narrative Report, and Engineer's Report for the above period.

The work is being performed partly under independent subcontracts and partly at "Fixed Unit Costs". The standby time and drilling costs are as low or lower than the rates contained in the lowest tentative bid submitted with the application, therefore the standby time and drilling costs are considered to be reasonable.

Except as otherwise indicated below, we consider that the Operator has complied with the intent of the contract and the work for which payment is recommended is acceptable to the Government. We recommend that payment be made to the Operator on the following basis, subject to your verification of applicable rates and accuracy of computations.

The contract stipulates that the holes shall be bottomed at a point not more than five feet below the lower contact of the Westwater Canyon member of the Morrison formation. Four of the holes drilled during March, 1957, penetrated in excess of five feet below the contact as follows:

Hole No.	Excess core footage
B-11	3.5
F-2A	4.25
F-20	2.0
D-15.5	2.5
Total excess core footage----------	12.25

Date

Disallowances:

1. **Core Drilling**
   Smaller reported cost of 12.25 feet excess core drilling at $3.00 per feet----------$36.75

2. **Incidental Allowance**
   Smaller Incidental allowance for 12.25 feet of drilling at $0.65 per feet---------- 7.96

3. **Core Boxes**
   Amount reported, 112 core boxes at total cost of ----------$144.00

   Acceptable cost, 112 core boxes at $1.25 per box---------- 140.00

   Amount to be disallowed---------- 4.00

Total amount to be disallowed----------$48.71

Reconciliation with Amount Reported by the Operator on Form MF-104 for March, 1957

Amount reported on Form MF-104 for March, 1957----------$8262.79
Amount to be disallowed---------- 48.71
Total acceptable cost for March, 1957----------$8214.08

Government participation at 75 percent----------$6160.56

Remarks

Date of Report----------April 8, 1957
Date Received in Field Office----------April 10, 1957
Date Received in Region Office---------- May 21, 1957

Original signed by
E. N. HARSHMAN
E. N. Harshman

Enclosures

JEC:hmk
cc: Gum. Op. Comm. (2)
Hunsaker (2)
Harshman } w/copy of Engr's
Townsend } report
MF-104 file, Eng. XIX
Gumm.

Original signed by
E. N. HARSHMAN

DMEA
DEPARTMENT OF THE INTERIOR

MAY 21 1957
REGION III
DENVER, COLORADO

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
May 21, 1957

Memorandum

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

Through: A. S. Konselman
Mining Engineer

From: W. D. McMillan

Subject: Docket DMEA 4411 (Uranium) Contract Ida-21052, Treasure Uranium and Resources, Inc., NW¼ sec. 6, T. 13 N., R. 9 W., NMPM, McKinley County, New Mexico -- Progress report for March 1957

An inspection of progress was made on May 6, 1957, accompanied by Forest Fincher, geologist for Four Corners Exploration Company, who are the drilling contractors. Max Hemminger, geologist for the applicant was in Las Vegas, Nevada.

During March, 1957, Stage I was completed, with 8 holes aggregating 2016 feet of non-core drilling and 1383 feet of core drilling.

Summary data on the 8 completed holes are presented in the following table.

Summary Data of March Drill Holes
NW1/4 sec. 6, T. 13 N., R. 9 W., NMPM

Hole No.	Non Core feet	Core Feet	Total Feet	Mineralization Gamma Ray	U_3O_8 Chemical
H-15.5	280	174	454	0 to Tr.	
D-6.5	230	174	404	0 to Tr.	384-385-0.018 356-357-0.055
B-11	210	170	380	Tr. to 0.01	
F-2A*	230	178	408	Tr. to 0.017	
H-6.5	290	170	460	Tr. to 0.015	
F-20	258	184	442	0	
J-11	268	167	435	Cuttings- " Core	384-386-0.051 380-388-0.043 380-388-0.048
B-15.5	250	166	416	0 to Tr.	
Totals	2016	1383	3399		

*Hole relocated according to letter to operator, March 15, 1957.

The locations of all holes were checked in the field. Core diameter was BX and average core recovery was reported as 87.5 percent. The cores and cuttings are stored in a lot west of Four Corners Exploration Company's office. Boxes were examined and found to be correct.

The operator's narrative report was adequate with drill hole tabulations, drill hole structure maps, lithologic logs, in quintuplicate, assay certificates and drilling contractor's invoices, in duplicate. Only one set of the drill contractor's logs was submitted, which are being retained in this office.

The following holes were drilled into Recapture formation beyond limits allowed by the contract and excess drilling is disallowed.

Hole No.	Into Recapture (feet)	Disallowed (feet)
B-11	8.50	3.50
F-2A	9.25	4.25
F-20	7.00	2.00
D-15.5	7.50	2.50
		12.25

The following cost items are recommended as allowable:

2016.00 feet non-core drilling at $0.84 a foot	$1693.44
1370.75 feet core drilling at $3.00 a foot	4112.25
3386 feet incidental allowance at $0.65 a foot	2201.39
3½ hours standby time at $12.00 an hour	42.00
5 chemical assays at $5.00 each	25.00
112 core boxes at $1.25 each	140.00
Total Allowable	$8214.08

It is recommended that 75 percent of the approved total or $6160.56 be approved for payment.

WDMcMillan

W. D. McMillan
Mining Engineer

WDM/mw
cc: 6
I&m-21052
chron

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

Budget Bureau No. 42-R1036.5

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

Month of March, 195 7 Docket No. DMEA 4411 Contract No. Idm-E 1052
Operator's Name Treasure Uranium & Resourses Inc. Minerals Uranium
Address 531 South State Street, Salt Lake City 11, Utah
Contract Amount, $10,943 (stage 1) Government Participation: 75% Amount, $ 8,207

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling	5842.44	none	5842.44			
Bulldozing						
Crosscutting						
Drifting						
Standby time	42.00	none	42.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
~~Sampling and~~ Analysis	25.00	none	25.00			
Payroll Taxes						
Liability Insurance						
Core boxes	144.00	none	144.00			
Incidental Allow.	2209.35	none	2209.35			
(8) Contingencies (specify):						
TOTALS	8262.79	none	8262.79	8214.08	—	8214.08

RECEIVED JUN 3 1957 D.M.E.A.

I certify that the above bill is correct and just and that payment therefor has not been received.
Date April 8, 1957 *Payee Treasure Uranium & Resources Inc
Per R. H. Johnson Title Managing Director

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

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

(Instructions on reverse)

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

$ 6,160.56

Signature [illegible]
(Authorized Certifying Officer)

Date 5/27/57 Voucher No. DMA 57-129
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E1052 in accordance with the terms of the contract.

Signature W. D. McMillan ($6160.56) Title Min. Engr. Date 5/9/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title acting Executive Officer Date MAY 24 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1957 Docket No. DMEA 4411 Contract No. Idm-E 1052
Operator's Name Treasure Uranium & Resourses Inc. Minerals Uranium
Address 531 South State Street, Salt Lake City 11, Utah

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft	4149.00	1383	4149.00	1383	3.00	1510	4.00
~~XXXX~~ plug	ft	1693.44	2016	1693.44	2016	.84	2040	1.00
~~XXX~~ Standby	hr	42.00	3.5	42.00	3.5	12.00	8	12.00
Stripping								
~~XXXXX~~ Chem Anal	ea	25.00	5	25.00	5	5.00	16	5.00
~~XXXXX~~ Core Boxes	ea	144.00	112	144.00	112	1.25	150	1.25
Roads and Trails								
Incidental Allow	ft	2209.35	3399	2209.35	3399	.65	3550	.65
TOTAL DISTRIBUTED COSTS		8262.79		8262.79				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		8262.79		8262.79				10,943.00

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

Date April 8, 1957 Operator Treasure Uranium & Resources Inc.

Per O. H. Robinson Title Managing Director

REMARKS: 3.5 hrs. were spent in washing out hole for gamma logger. Delay was due to breakdown of Century Geophysical's equipment.

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

(Instructions on reverse)

(For Government use only)

RECEIVED JUL 3 1957 D.M.E.A.

Wm C Mullen

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

April 5, 1957
Idm-E 1052
Docket # 4411

Narrative Report

During March 1957, eight holes, a total of 3399 feet, were completed on the NW¼ Sec. 6, T13N, R9W, Mckinley County, New Mexico. Drilling commenced March 4 and was completed March 30. These eight holes constitute the entire stage 1 of Contract Idm-E 1052, Docket # 4411.

This total is composed of 2016 feet of plug drilling to the approximate middle of the Brushy Basin member and 1383 feet of coring from that horizon through the Westwater Canyon member to the Recapture member all of the Morrison formation of Jurassic age.

Core diameter was 2 5/16". Average recovery was 87.5%. Cuttings at two foot intervals were collected throughout the cored interval.

All holes except H-15.5 and F-20 were wet and had to be drilled with water. One hole, F-2, was abandoned after 36 hours of trying to regain circulation failed. An offset, F-2A, was authorized and offset 75 feet in a southerly direction.

All core and cuttings are properly labeled and stored with the drilling company, Four Corners Exploration Company, a few miles west of Grants, New Mexico.

The accompanying drill hole map and the lithologic logs show the lithology, location and mineralization of the eight holes drilled.

A very favorable zone extends in an east-west direction across the central portion of this quarter section. Although mineralization is weak it is noteworthy that F-2A has 44 feet, J-11 has 25 feet and D-6.5 has 18 feet of continuous mineralization in the Westwater member. All holes except F-20, H-16.5 and D-15.5 has an abundance of bleached Westwater sands and can be considered very favorable looking holes.

Due to the relatively small aerial extent possible for an ore body in this area the 13 holes can easily be "bracketing" a very commercial body. Further drilling, especially in the central favorable zone, is necessary for a clear evaluation of this quarter section.

COPY

EXTRA COPY
D M E A
RECEIVED JUL 8 1957
DATE | REMARKS | CODE

Max Hemminger
Max Hemminger
Geologist

DRILL HOLE TABULATION

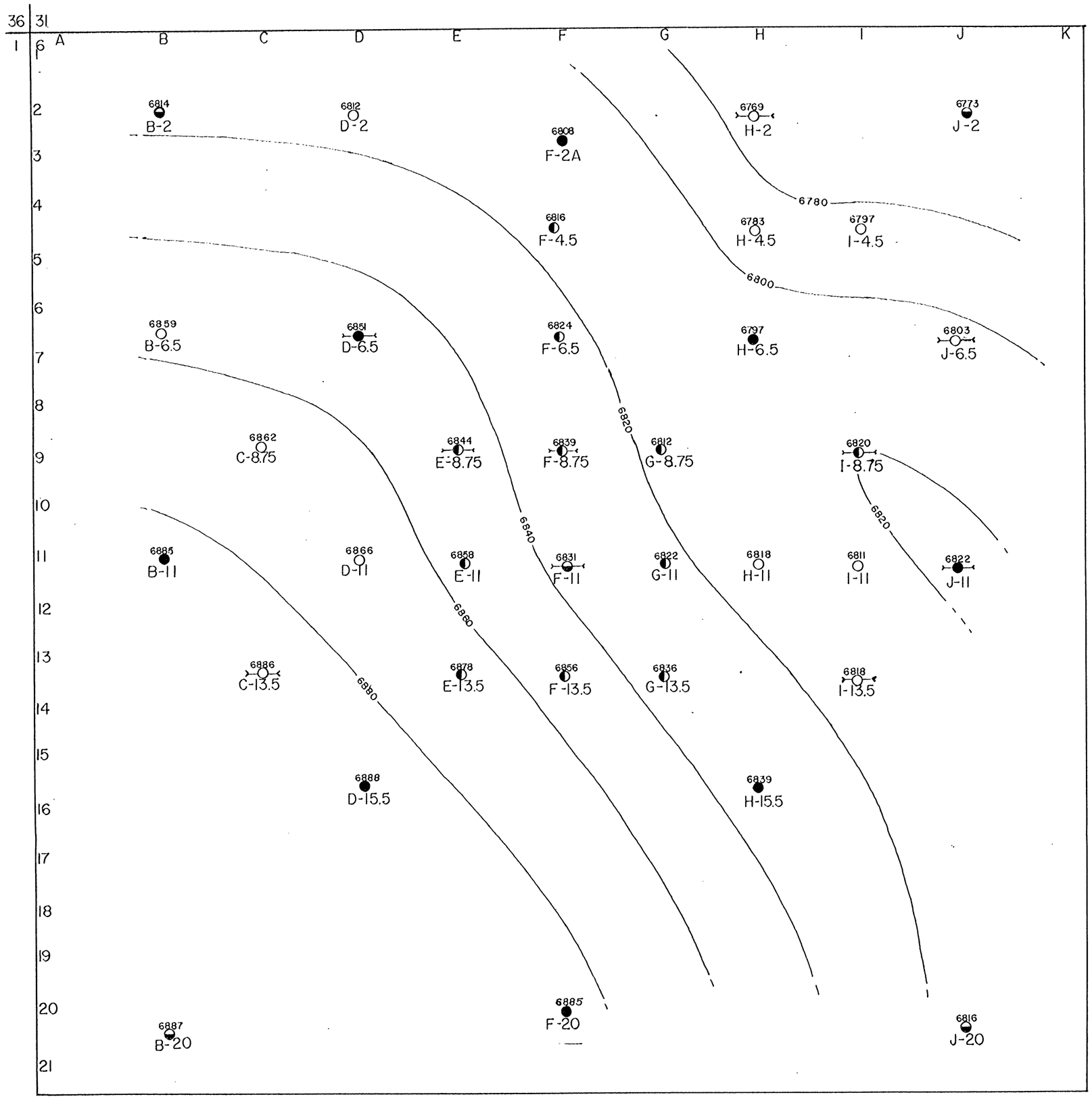
NW¼ SEC. 6, T16N, R9W, McKINLEY COUNTY, NEW MEXICO

Hole No.	Plug	Core	Depth	From	To	Gamma Value (%U3O8)
H-15.5	280	174	454	0.0	429.0	0
				429.0	435.0	Tr
D-6.5	230	174	404	0.0	188.0	0
				188.0	189.0	Tr
				189.0	211.0	0
				211.0	214.0	Tr
				214.0	215.0	0.015 Chem
				215.0	219.0	Tr
				219.0	253.0	0
				253.0	256.0	Tr
				256.0	257.0	0.035Chem
				257.0	263.0	Tr
				263.0	296.0	0
				296.0	400.0	Tr
				400.0	404.0	0
B-11	210	170	380	0.0	237.5	0
				237.5	239.0	Tr
				239.0	248.5	0
				248.5	249.5	Tr
				249.5	250.0	0
				250.0	260.0	Tr
				260.0	265.0	0
				265.0	267.0	0.01
				267.0	300.0	0
F-12A	230	178	408	0.0	268.0	0
				268.0	269.0	Tr
				269.0	270.0	0.017
				270.0	275.5	Tr
				275.5	311.0	0
				311.0	312.0	Tr
				312.0	325.0	Tr
				325.0	248.0	Tr
				248.0	249.0	0.017
				249.0	255.0	Tr
				255.0	408.0	0
E-6.5	290	170	460	0.0	210.0	0
				210.0	211.5	0.015
				211.5	229.0	0
				229.0	230.5	Tr
				230.5	277.0	0
				277.0	278.0	0.015
				278.0	287.0	0
				287.0	306.0	Tr

DRILL HOLE TABULATION

(cont')

Hole No.	Plug	Core	Depth	From	To	Gamma Value (%U3O8)
F-20	258	184	442	0.0	442.0	0
J-11	268	167	435	0.0	299.5	0
				299.5	300.5	Tr
				300.5	312.5	0
				312.5	314.0	Tr
				314.0	354.0	0
				354.0	355.5	Tr
				355.5	378.0	0
				378.0	380.0	0.03
			chem-	380.0	388.0	0.048 (core)-0.043(cutt)
			chem-	384.0	386.0	0.051
				388.0	399.0	0
				399.0	400.0	0.016
				400.0	401.0	0.010
				401.0	402.5	0.017
				402.5	403.5	o.010
				403.5	435.0	0
D-15.5	250	166	416	0.0	408.0	0
				408.0	409.0	Tr
				409.0	416.0	0
Totals	2016	1383	3399			



TREASURE URANIUM & RESOURSES
SALT LAKE CITY

DRILL HOLE & STRUCTURE MAP

NW 1/4 SEC. T13N, R9W
MCKINLEY CO., NEW MEXICO

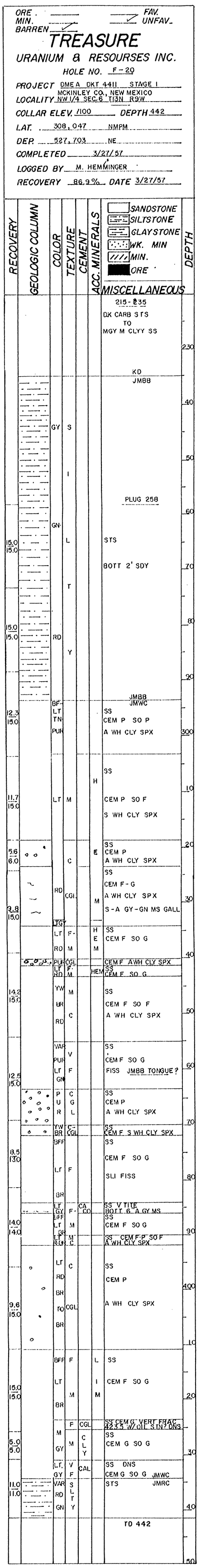
- HOLES DRILLED BY TREASURE URANIUM DURING MARCH '56
- DMEA DKT 4411 HOLES DRILLED DURING MARCH '57
- DMEA DKT 4411 HOLES DRILLED DURING MAY '57
- DMEA DKT 4411 HOLES DRILLED DURING JUNE '57
- HOLES CONTAINING AT LEAST 0.020 % U_3O_8 IN THICKNESSES GREATER THAN 1'.

CONTOURED ON CONTACT OF WHITE SS & DARK CARBONACEOUS SH. - BOTH WITHIN THE DAKOTA SS

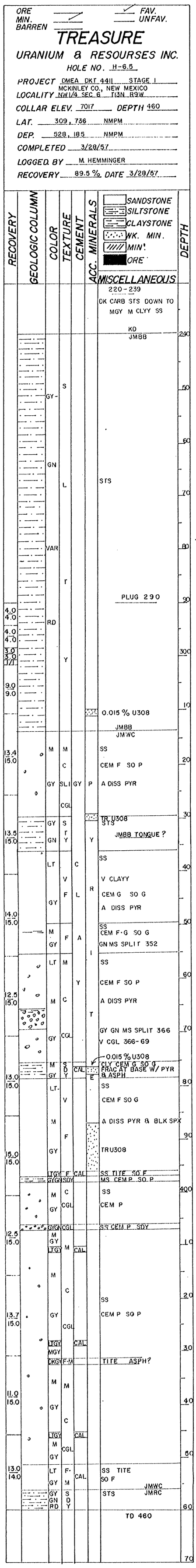
CONTOUR INTERVAL 20'

SCALE 1" = 200' JULY 1957

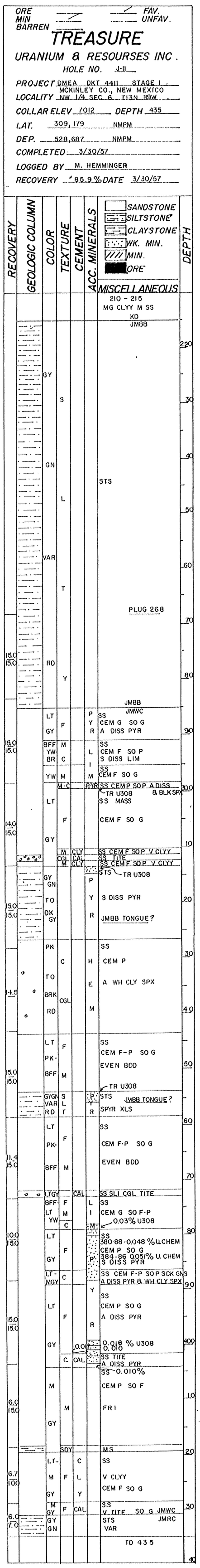
M. HEMMINGER



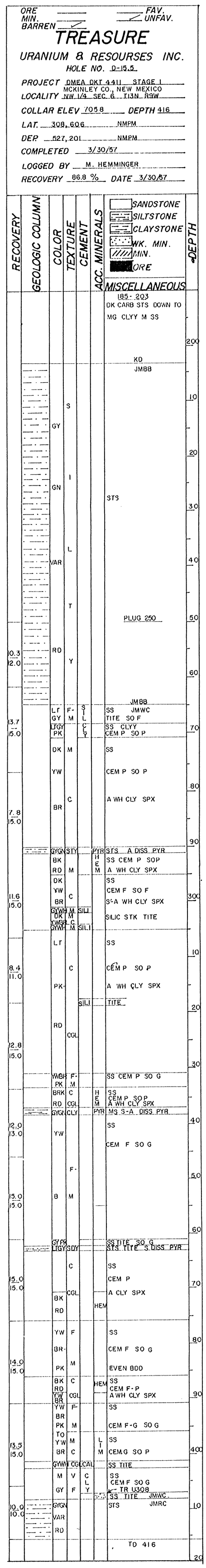
F-20



H-6.5



J-11



D-15.5

ORE ___ FAV. ___
MIN. ___ UNFAV. ___
BARREN ✓

TREASURE
URANIUM & RESOURSES INC.

HOLE NO. H-15.5
PROJECT DMEA-DKT 4411 STAGE I MCKINLEY CO, NEW MEXICO
LOCALITY NW 1/4 SEC 6, T13N R9W
COLLAR ELEV. 7054 DEPTH 454
LATITUDE 308,613 NMPM
DEPARTURE 528,196 NMPM
COMPLETED MARCH 9, 1957
LOGGED BY M. HEMMINGER
RECOVERY 84.4 % DATE 3/9/57

RECOVERY | GEOLOGIC COLUMN | COLOR | TEXTURE | CEMENT | ACC. MINERALS | MISCELLANEOUS | DEPTH

SANDSTONE, SILTSTONE, CLAYSTONE, WK. MIN, MIN., ORE

Depth	Recovery	Color	Texture	Cement	Acc. Minerals	Miscellaneous
						215 – 240 MGY F CARB SS & STS. LIGHTENS & BECOMES MORE SDY DOWNWARD. KD JMBB
240						
		GY	S			
50						
60			I			GY-GN SLTY CLYSTN
		GN				
70						
80						PLUG-280
	11.0 / 11.0	GY	L			
90						BECOMES MORE SLTY & RD DOWNWARD.
	4.2 / 5.0					
	7.7 / 8.0	GN	T			
300						
10	14.0 / 14.0	RD	Y			
						JMBB JMWC
20		LT GY	F	C		F-M SS - LT GY AT TOP GRADES DOWN TO YW-BR SLI CGL AT TOP. IN GEN. WELL SO. F CEM. LIM INC DWN. GY-GN CLY SPX INC DWN. S ANG QZT GNS. S XBOD.
	14.5 / 15.0		TO			
30		YW				TR U308
		BR	M	L	LIM	
						DK BRK RD M C SS. SO-P. CEM-F-P. LESS CEM & S CGL DOWNWAR A WH CLY SPX THRU-OUT. S GY-GN MS GALLS IN LOWER PART.
40	8.0 / 15.0	DK	M			
		RD	C			
			CGL	Y		
50		GY GN	CLY		AS	ASPH & C SS IN FRACS GRADES TO CGL BELOW
		RD	M	C		
	10.0 / 16.0		C	L		M-C-CGL RD-BR TO LT BR SS. GRADES DOWN FROM DK RD-BR PO CEM CGL SS TO LT TN F CEM CGL SS. TWO F-M SS STRINGERS IN CENTRAL PORTION. CGLS HAVE A WHCLY SPX AS CEMENT.
		BR	CGL	Y		
60			F-M			
			CGL	CLY		
			F-M			
70	12.0 / 15.0		M	C		
			C	L		
			CGL	Y		
		LT GY		LIME		V DNS TITE CGL
		VAR MGY RD	SILTY		PYR	VAR MGY-RD DNS STS. SP PYR XYLIS LOWER 1' SDY-F CEM JMBB TONGUE?
80						
	15.0 / 15.0	GY	SDY			LT GY V SDY MS
		LT	C CGL	CLY		C-CGL SS. F CEM A WH CLY SPX
90						
		YW	F			
						F-M S S. SO G. F CEM
400		BR	M			
	13.3 / 15.0					
		TO	C	C		
10						C-V CGL SS. AWH CLY. SO P. CEM P
	12.2 / 15.0	BFF	V CGL	L Y		3" GY MS SPLIT W/ S PYR AT BASE.
20						
		YW			LIM	
		LT	M			TR U308 BLEACHED M-C SS SO P. CEM P. SLI ARK TOP 1' HAS A GY MS GALLS W/SP PYR.
	10.6 / 15.0		C			
		GY				
40			F			SO G. CEM. F. LT GY BLEACHED SS
		RD BR	M			DO ONLY RD.
	14.3 / 15.0	LT GY YW BR	C CGL	C L Y		C-CGL SS. SO P. CEMF BECOMES FINER & TIGHTER DWNWRD
50		LT GY	F		JMWC JMRC	F-VF TITE SS. S GN MS
		GY GN RD	STS			VAR GY-GN RD DNS STS
						TD 454
60						

H-15.5

ORE ___ FAV. ___
MIN. ✓ UNFAV. ___
BARREN ___

TREASURE
URANIUM & RESOURSES INC.

HOLE NO. D-6.5
PROJECT DMEA DKT 4411 STAGE I MCKINLEY CO., NEW MEXICO
LOCALITY NW 1/4 SEC 6, T13N R9W
COLLAR ELEV. 6992 DEPTH 404
LATITUDE 309,730 NMPM
DEPARTURE 527,189 NMPM
COMPLETED 3/15/'57
LOGGED BY M. HEMMINGER
RECOVERY 91.4 % DATE 3/15/57

RECOVERY | GEOLOGIC COLUMN | COLOR | TEXTURE | CEMENT | ACC. MINERALS | MISCELLANEOUS | DEPTH

SANDSTONE, SILTSTONE, CLAYSTONE, WK. MIN., MIN., ORE

Depth	Recovery	Color	Texture	Cement	Acc. Minerals	Miscellaneous
						135 -- 170 BLK CARB STS. GRADES DOWN TO MGY M SS. KD JMBB
170						
80		VAR	S			
90		LT				
			I			
200		GY-				STS & STY CLK
		GN	L			
10						
		RD	T			
20						
			Y			PLUG-230
30	14.0 / 14.0					
40						JMBB JMWC
				GY	A	
			F			A GY CLY CEM.
50		M		CLY		SS
	15.0 / 15.0				PYR	CGL SPLIT W/A GY CLY AT 254
60						
			V	GY-		SS
		GY		GN		A GY-GN CLY CEM.
				CGL		
70	12.5 / 15.0					
				CLY		
		LT GY	F-M			TITE CACO3 CEM
		MGY	STY		PYR	W/ CGL STKS
		LT	V			SS
						CEM G
80	11.0 / 12.0	GY	F			
		M-			A	STS
		DK	STY			CEM G
		GY				JMBB TONGUE?
		DK	SDY		PYR	ASPH SPX?
		GY				CEM G SO P TR U308
90		MGY	F			CEM F
	15.0 / 15.0		CGL			SS
		M	F-M			A WH CLY SPX
			CGL	CLY		
300		GY				TWO M SS STRINGERS W/ A GY MS
			F-M			
		LT GY	CG			V TITE. AGY MS GALLS
		MGY	STS		PYR	STS
10	15.0 / 15.0	LT	F-			SS
		GY	M			CEM F
		MGY	CGL			SS
		DK	F-			TR U308 311-28
20	15.0 / 15.0	GY				SS
						CEM F
		YW BR	M			0.018% U308 CHEM. IN GN SDY & CGL MS SPLIT W/S PYR & BLK MAT. 1' SPL TAKEN INC 6" ABV SS
		LT BR			LIM	
		RD			HEM	
30						
	12.3 / 15.0	YW	C-			SS
					LIM	CEM P
40		BR	CGL			
	11.0 / 15.0		M			A MGY MS GALLS SS
			F			SO G CEM P SS
		M-			A	0.065% U308 CHEM IN INDICATED SS SS 1' SPL INCLUDES 3" STK CGL GN MS W/ DK GNS.
			F	A		
50		LT			DISS	SO G
	13.2 / 15.0		TO			CEM F
60				CLY		
		GY				
			M		PYR	
70	13.9 / 15.0					
						V TITE AT/BASE
80					CACO	
		LT	V		A	SS
	11.2 / 13.0	GY	F		CACO	V TITE TR U308
90						
400		MGY RD	STS			STS JMWC JMRC
						TD 404
10						

D-6.5

ORE ___ FAV. ✓
MIN. ✓ UNFAV. ___
BARREN ___

TREASURE
URANIUM & RESOURSES INC.

HOLE NO. B-11
PROJECT DMEA DKT 4411 STAGE I MCKINLEY CO., NEW MEXICO
LOCALITY NW 1/4 SEC 6, T13N R9W
COLLAR ELEV 7020 DEPTH 380
LATITUDE 309,164 NMPM
DEPARTURE 526,698 NMPM
COMPLETED 3/19/'57
LOGGED BY M. HEMMINGER
RECOVERY 90.7 % DATE 3/19/57

RECOVERY | GEOLOGIC COLUMN | COLOR | TEXTURE | CEMENT | ACC. MINERALS | MISCELLANEOUS | DEPTH

SANDSTONE, SILTSTONE, CLAYSTONE, WK. MIN., MIN., ORE

Depth	Recovery	Color	Texture	Cement	Acc. Minerals	Miscellaneous
						135 - 160 DK GY - BLK CARB STS' GRDS DN TO MG M SS KD JMBB
160						
70		GY				
			S			
80						
90		GN				STS
			D			V SDY 210 - 14
200						
10						
						PLUG 210
20	5.5 / 6.0					
		RD				
			Y			
30						TR U308
	12.0 / 12.0					
						JMBB JMWC
40	12.0 / 15.0	LT-	F-	P		SS.
		M		Y		SO G CEM P
		GY	M	R		A WH CLY SPX & DISS PYR
	12.0 / 12.0	LT	C-	P		SS.
50				Y		SO P CEM P
				R		A WH CLY SPX & GY-GN MS
		GY	CGL			S-A DISS PYR
						TR U308
		LT	F-	P Y P		SS SO G CEM F S-A GY CLY S-A PYR
60	13.4 / 15.0					
		LT-M GY	M	GY		SS
				CLY		SO G CEM G
		LT RD BR				ASPH SPX?
70		PK-		L		
			C-	I		SS
		LT				V TITE
		RD		M		VERT FRAC W/CACO3 XYLLS 2/85
	11.9 / 15.0			E		
		BR				
80		BRK RD				SS CEM F-P
		RD	CGL		H	A WH CLY SPX
		BR			E	286-7 VCGL W/A GY MS GALL
90		LT GY	M		M	SS SO F V TITE
	15.0 / 15.0	GY-GN RD	S LTY			STS W/SDY CLY JMBB TONGUE?
		BFF				
			F-			
300		LT				SS
		YW				SO G CEM F
			M			
		BR				
	15.0 / 15.0	BFF LT GY				SS CEM-F A GY MS SPLITS & WH CLY SPX
10						
		BRK RD	C-		H	SS
	12.0 / 12.0					CEM P
20						
	15.0 / 15.0	TO			E	A WH CLY SPX
		YW				
			CGL		M	
		BR				
30						
	11.6 / 15.0	LT-MGY	V CGL			MS SO P CEM P
40		LT BR				
		DK RD	M		HEM	
	11.8 / 15.0					SS
50					L	CEM F-P SO P
		YW	C		I	
					M	
60			CGL			
	14.5 / 15.0					0.01% U308
70		M- DK GY	F SI			SS V TITE SO G JMWC JMRC
		VAR GY RD	S D Y			STS
	4.5 / 5.0					
80						TD 380

B-11

ORE ___ FAV. ✓
MIN. ✓ UNFAV. ___
BARREN ___

TREASURE
URANIUM & RESOURSES INC.

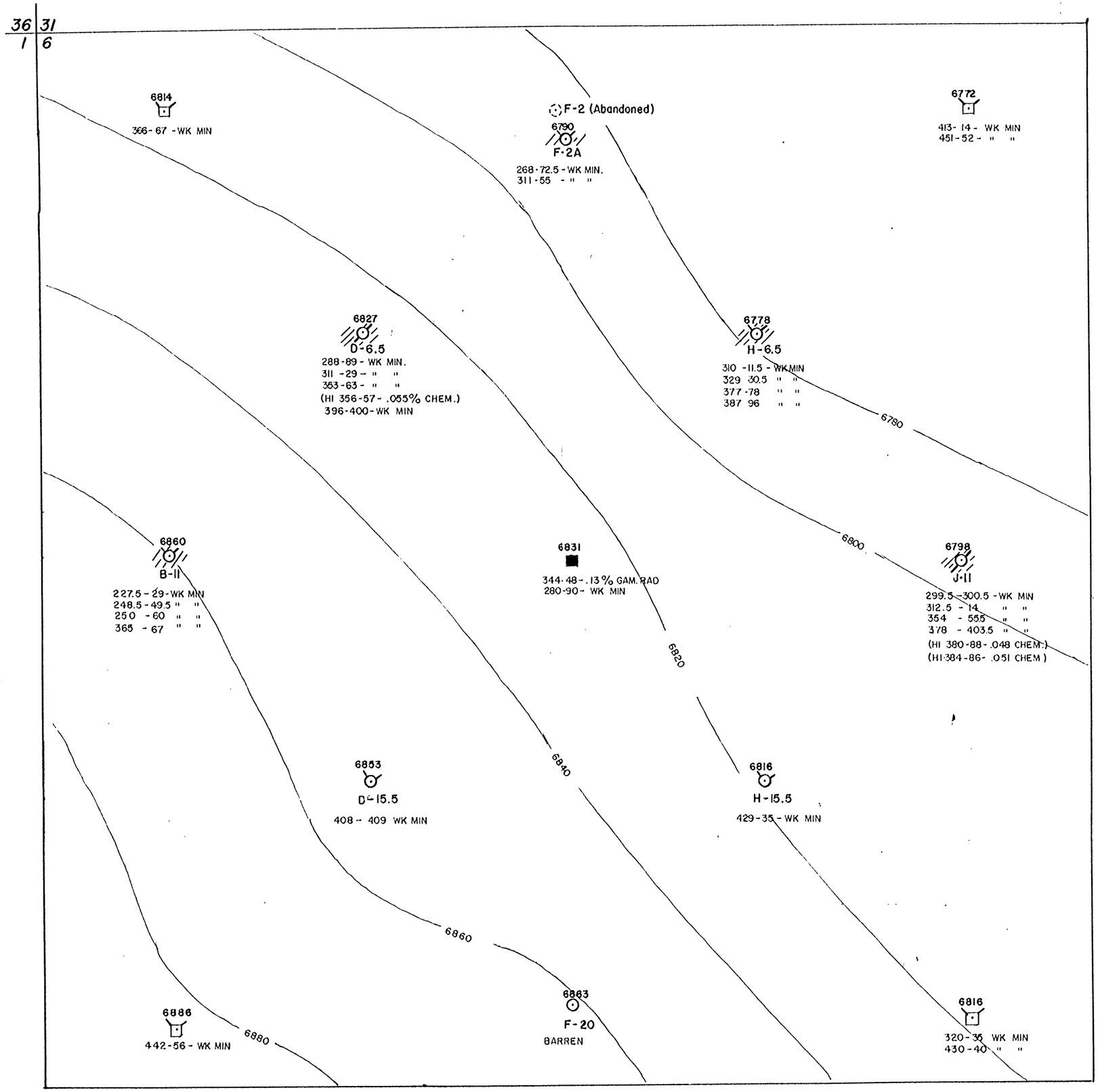
HOLE NO. F-2A
PROJECT DMEA DKT 4411 STAGE I MC KINLEY CO., NEW MEXICO
LOCALITY NW 1/4 SEC 6 T13N R9W
COLLAR ELEV. 6973 DEPTH 408
LATITUDE 310,225 NMPM
DEPARTURE 527,707 NMPM
COMPLETED 3/23/'57
LOGGED BY M. HEMMINGER
RECOVERY 84.2 % DATE 3/23/57

RECOVERY | GEOLOGIC COLUMN | COLOR | TEXTURE | CEMENT | ACC. MINERALS | MISELLANEOUS | DEPTH

SANDSTONE, SILTSTONE, CLAYSTONE, WK. MIN., MIN., ORE

Depth	Recovery	Color	Texture	Cement	Acc. Minerals	Miselleneous
						165 - 183 DK GY SDY CARB STS. GRADES DOWN TO MGY M SS. KD JMBB
180						
90		GY				
			S			
200						
10		GN				
			I			
20			L			STS
30			T			PLUG 230
40	6.3 / 11.0					
		RD	Y			
50	15.0 / 15.0					
60	3.3 / 6.0					
	10.0 / 10.0					SD 269-70
70						TR U308 0.017% U308 TR U308
	15.0 / 15.0					
80						
90						
	15.0 / 15.0					JMBB JMWC
		LT	M-	C		SS
300			C-	L		A WH CLY SPX
		GY		Y		VCGL 302-07
			CGL			CEM F-P
10	10.8 / 12.0	M	S			STS W/ RD STK TR U308 TOP 6" A PYR JMBB TONGUE?
		GY	LTY		Y R	
		LT	F-			SS CEM-F
20	8.5 / 10.0	GY- WH	M			SO G
						SS
			M-	C	P	S-A DISS PYR THRU-OUT.
30	14.5 / 15.0					
		LT	C-	L	Y	VCGL 335-39 351-54
40						
						CGL HAS P CEM
	10.2 / 15.0		CGL	Y	R	TR U308 - HI 348-49 0.017%
50						
						SS
60			F-	C		CEM F-P
	9.3 / 15.0	GY		L		CGL IN PLACES
70						
			M	Y		BOTT 5' V FRI
	12.0 / 12.0					
80						
		M	S			SLTY CLYSTN
	5.0 / 12.0	GY	LTY		P Y R	S DISS PYR HI CORE LOSS PROB S FRI SS LOST
90						
	5.0 / 5.0	LT	S	C		STS STKS RD
400		GY	DY	A		STS ? JMWC / JMRC ?
	10.0 / 10.0	GN		C O 3		S STKS TITE VF SS
						TD 408
10						

F-2A



14°

Drill Hole & Structure Map

NW 1/4 SEC 6 T13N R9W NMPM

MCKINLEY CO., NEW MEXICO

⊙ DMEA DKT 4411 (STAGE I) HOLES DRILLED DURING MARCH, 1957

⊡ PREVIOUS HOLES

CONTOUR INTERVAL - 20', ON TOP JMBB

SCALE – 1" = 200'

⊡ ⊙ BARREN

⊡ ⊙ WK MIN - < .050% U308

⊡ ⊙ MIN - > 1'.050% U308

■ ● ORE - > 2'.20% U308

//// FAV. BLEACHING

APRIL, 1957

M. HEMMINGER

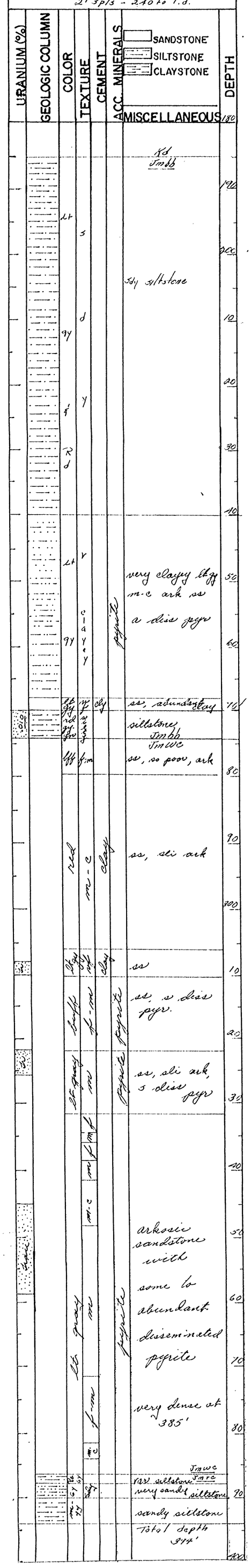
Mch

Stage 2, May 1957

ORE ____ FAV. ____
MIN. ____ UNFAV. ✓
BARREN ✓

TREASURE
URANIUM & RESOURSES INC

HOLE NO. E-11
PROJECT DMEA Dkt 4411, Stage 2 NW¼ Sec 6 T13N R9W
LOCALITY McKinley Co, New Mexico
COLLAR ELEV. 7006 DEPTH 394
LATTITUDE 309,113 NMPM
DEPARTURE 521,452 NMPM
COMPLETED May 15 1957
LOGGED BY M. Hemminger
RECOVERY Plugged total depth
2' spls - 240 to T.D.

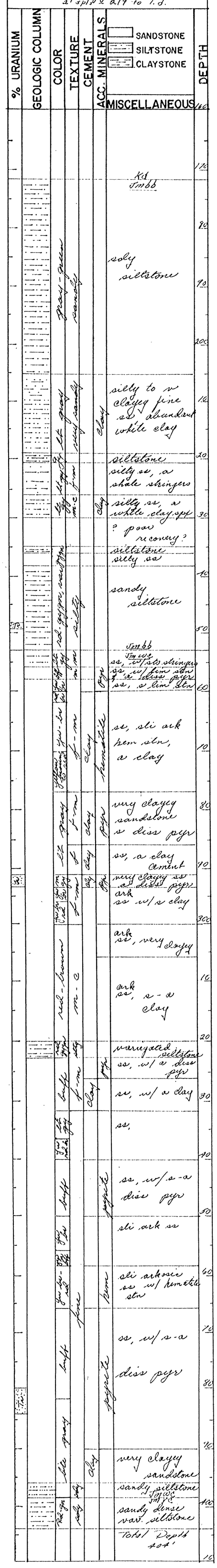


E-11

ORE ____ FAV. ____
MIN ____ UNFAV. ✓
BARREN ✓

TREASURE
URANIUM & RESOURSES INC

HOLE NO. E-13.5
PROJECT DMEA Dkt #4411 Stage 2 NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co, New Mexico
COLLAR ELEV. 7028 DEPTH 404
LATTITUDE 308,841 NMPM
DEPARTURE 521,452 NMPM
COMPLETED May 17, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged total depth
2' spls - 219 to T.D.

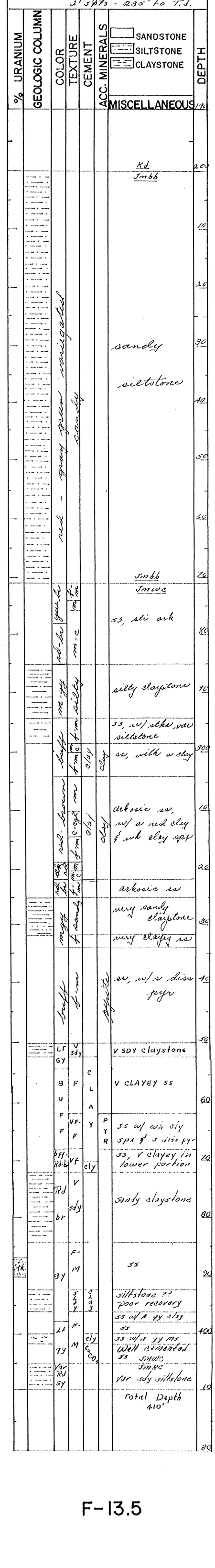


E-13.5

ORE ____ FAV. ____
MIN. ____ UNFAV. ✓
BARREN ✓

TREASURE
URANIUM & RESOURSES INC

HOLE NO. F-13.5
PROJECT DMEA Dkt #4411, Stage 2 NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co, New Mex.
COLLAR ELEV 7029 DEPTH 410
LATTITUDE 308,847 NMPM
DEPARTURE 521,708 NMPM
COMPLETED May 20, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged total depth
2' spls - 235' to T.D.

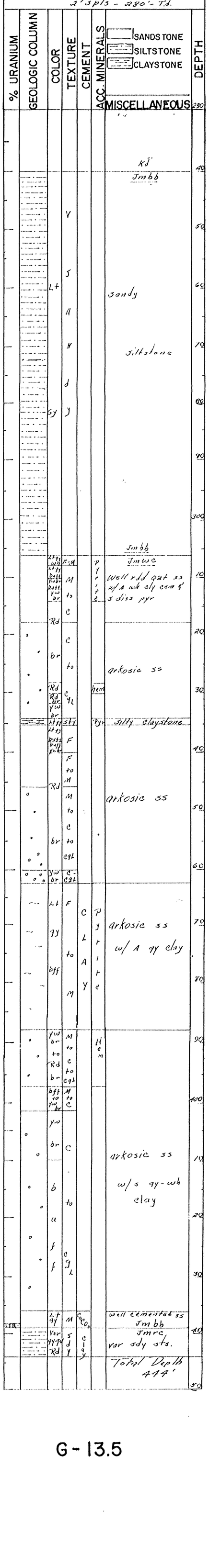


F-13.5

ORE ____ FAV. ____
MIN. ____ UNFAV. ✓
BARREN ✓

TREASURE
URANIUM & RESOURSES INC

HOLE NO. G-13.5
PROJECT DMEA Dkt #4411, Stage 2 NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co, New Mexico
COLLAR ELEV 7046 DEPTH 444
LATTITUDE 308,853 NMPM
DEPARTURE 521,958 NMPM
COMPLETED May 21, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged total depth
2' spls - 280' - T.D.



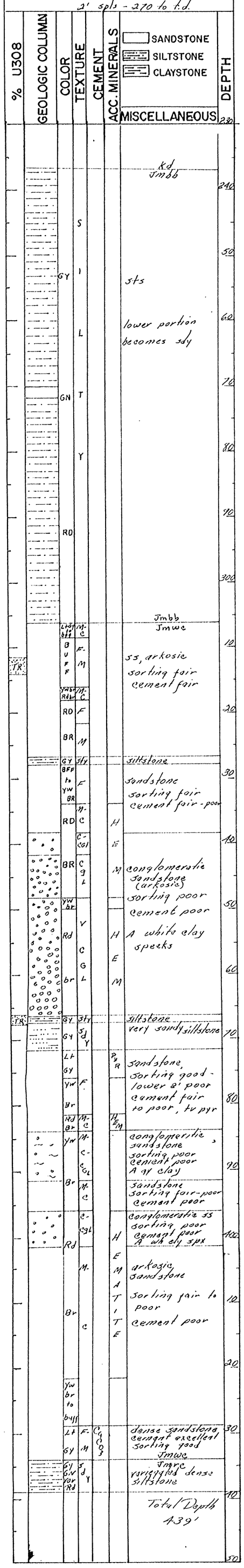
G-13.5

May 3/57

ORE ___ MIN. ✓ BARREN ✓ FAV. ✓ UNFAV. ✓

TREASURE
URANIUM & RESOURSES INC

HOLE NO. G-11
PROJECT DMEA DKt 4411, Stage 2
LOCALITY NW¼, Sec 6, T13N, R9W, McKinley County, New Mexico
COLLAR ELEV. 7035 DEPTH 439
LATTITUDE 309,140 NMPM
DEPARTURE 527,956 NMPM
COMPLETED May 22, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged total depth 2' spls - 270 to t.d.

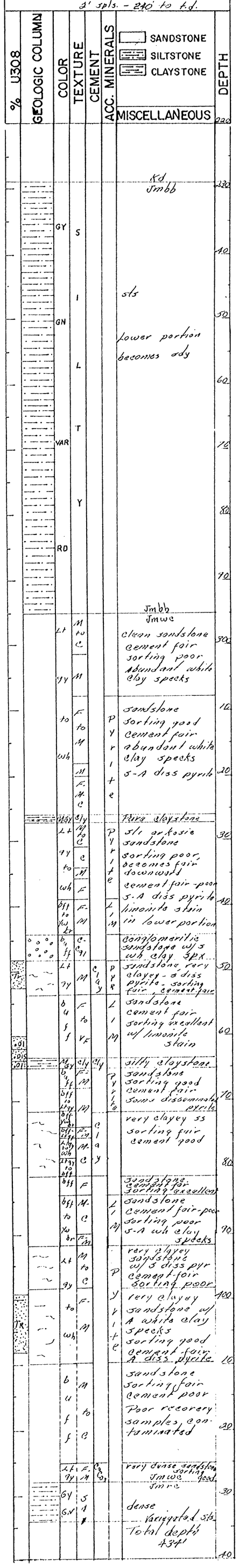


G-11

ORE ___ MIN. ✓ BARREN ___ FAV. ✓ UNFAV. ___

TREASURE
URANIUM & RESOURSES INC

HOLE NO. G-8.75
PROJECT DMEA DKt 4411, Stage 2
LOCALITY NW¼, Sec 6, T13N, R9W, McKinley County, New Mexico
COLLAR ELEV. 7016 DEPTH 434
LATTITUDE 309,418
DEPARTURE 527,954
COMPLETED May 24, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged total depth 2' spls. - 240' to t.d.

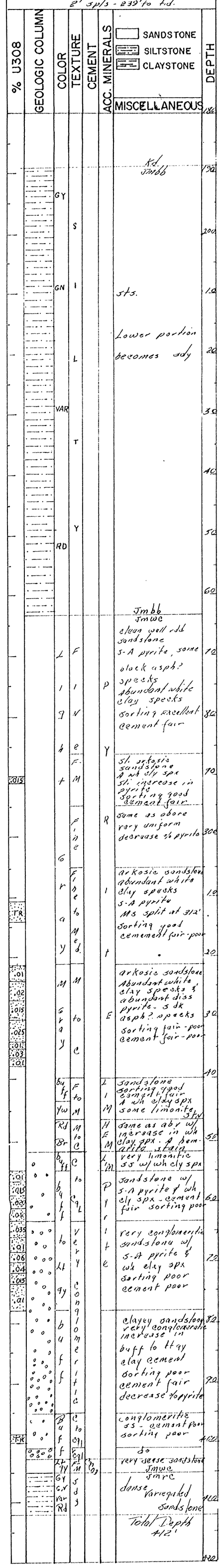


G-8.75

ORE ___ MIN. ✓ BARREN ___ FAV. ✓ UNFAV. ___

TREASURE
URANIUM & RESOURSES INC

HOLE NO. E-8.75
PROJECT DMEA DKt 4411, Stage 2
LOCALITY NW¼, Sec 6, T13N, R9W, McKinley County, New Mexico
COLLAR ELEV. 7003 DEPTH 412
LATTITUDE 309,417
DEPARTURE 527,716
COMPLETED May 27, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged total depth 2' spls - 239' to t.d.

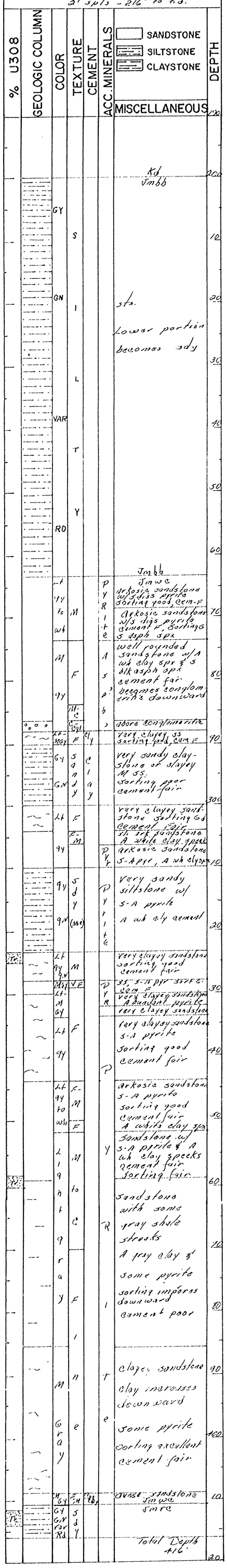


F-8.75

FAV. ✓ UNFAV. ___ ORE ___ MIN. ___ BARREN ✓

TREASURE
URANIUM & RESOURSES INC

HOLE NO. F-6.5
PROJECT DMEA DKt 4411, Stage 2
LOCALITY NW¼, Sec 6, T13N, R9W, McKinley County, New Mexico
COLLAR ELEV. 6994 DEPTH 416
LATTITUDE 309,733
DEPARTURE 527,720
COMPLETED May 29, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged total depth 2' spls - 216' to t.d.



F-6.5

Stage 2, May 1957

ORE ___ FAV. ✓
MIN. ✓ UNFAV. ___
BARREN ___

TREASURE
URANIUM & RESOURSES INC.

HOLE NO. E-8.75
PROJECT DMEA Dkt #4411 Stage 2
NW¼ Sec 6 T13N R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV. 6777 DEPTH 401
LAT. 309, 416 NMPM
DEP. 527, 452 NMPM
COMPLETED May 30, 1957
LOGGED BY M. Hemmingway
RECOVERY Plugged to total depth
2' sp/s - 217' to t.d.

% U308	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC. MINERALS	MISCELLANEOUS (SANDSTONE / SILTSTONE / CLAYSTONE)	DEPTH
						Rd Jmbb	170
							180
		Gy	S				
			I				190
							200
		Gy	L			Sandy siltstone	
			T				210
		Var	Y				
							220
						very sandy 222'-225'	
		Rd					230
							240
							250
							260
						Jmbb Jmwc	
		Lt	M	C	P		
		Yl					270
		to	to	I	Y	arkosic sandstone some pyrite abundant gray clay	
		Yw		a	r		
			C		y	sorting fair cement fair	280
		Br			I		
		Lt	F to M		t	arkosic sandstone w/ s-A disseminated pyrite & A wh clay specks	290
		Yl	C		e	sorting poor cement fair	
		Lt Yl to Bff	M				300
		Lt	to			Algal sandstone cement poor	
		Yl	C			clean sandstone w/ s shale stks arkosic sorting poor, cement poor	310
		Yw Br to Bff	F to M		L I M	arkosic sandstone with limonite str sorting good	320
		Lt	M to C		P I r I t e	arkosic sandstone some, disseminated pyrite some white clay specks sorting fair cement fair	
		Yl					330
			F				
		RS	to		H m	abpre w/ hematite stain, cement poor	
		Br	M				340
		Lt			P y r i t e	arkosic sandstone w/ s diss pyr & s. wh clay spx	
		Yl	M to C				
		Yw Br	C		Tim	w/ Tim str	350
		Lt	M		P y r i t e	sorting poor cement poor	
		Lt Yl to Bff	C Cgl			conglomeritic sand stone cement poor	
			M to C			arkosic sandstone	360
		b					
		u f	C			conglomeritic sandstone w/ s gray clay	370
		f	to			sorting poor cement fair	
							380
		Lt	C Cgl		C l a y	conglomeritic sandstone w/ gr clay - clay increases down	
		Yl					390
		b u f	F to M			sandstone w/ A ty clay	
		Lt Yl		Qtz		dense Jmwc ss	400
		Gy Gv Br Rd	S a y			Jmrc var dense sts.	
						Total depth 401'	410

E-8.75

ORE ___ FAV. ✓
MIN. ✓ UNFAV. ___
BARREN ___

TREASURE
URANIUM & RESOURSES INC.

HOLE NO. I-8.75
PROJECT DMEA Dkt #4411 Stage 2
NW¼ Sec 6 T13N R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV. 7015 DEPTH 446
LAT. 309, 419 NMPM
DEP. 528, 442 NMPM
COMPLETED May 31, 1957
LOGGED BY M. Hemmingway
RECOVERY Plugged to total depth
- 2' sp/s - 248' to t.d.

% U308	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC. MINERALS	MISCELLANEOUS (SANDSTONE / SILTSTONE / CLAYSTONE)	DEPTH
						Rd Jmbb	210
							220
			S				
		Gy	I			Sandy siltstone	230
							240
		Gv	L				
			T				250
		Var	Y				
							260
		Rd					270
							280
							290
						Jmbb Jmwc	300
		Lt			P		
		Yl	M			arkosic sandstone s pyrite	310
		to	to		Y r i t e	sorting fair cement poor	
		Bff				s-A wh clay spx	320
			C			minute lit spx	
							330
		Yl	S a n d y			dense very sandy siltstone	340
		Gn					350
		Lt Yl to Bff	C		P r i t e	arkosic sandstone s pyrite s wh clay spx cement poor	360
		b u f	C to Cgl			sli conglomeritic arkosic sandstone w/ A wh clay spx cement poor	370
		f f	C a l			conglomeritic sandstone w/ A wh clay spx cement poor	380
		Yw br	C to C Cgl			sli conglomeritic sandstone w/ A wh clay spx cement poor	390
		b u f f	M	C l a y		very clayey sandstone sorting good cement fair	400
		Yw br	F M			arkosic sandstone w/ A wh clay spx cement poor	410
		b u f f	M to C				
							420
		b u f l	C to C			conglomeritic sandstone s-A white clay specks sorting poor cement poor	430
		Gy Gv Var Rd	S a n d y			sandy siltstone w/ s-A dkgy mudstone galls	440
		Yw br	C to			sli conglomeritic arkosic sandstone w/ A wh clay spx cement poor	450
		b u f f	C Cgl				460
		Lt Yl	F	Qtz		dense Jmwc ss. Jmrc	470
						Total depth 446'	480

I-8.75

ORE ___ FAV. ✓
MIN. ✓ UNFAV. ___
BARREN ___

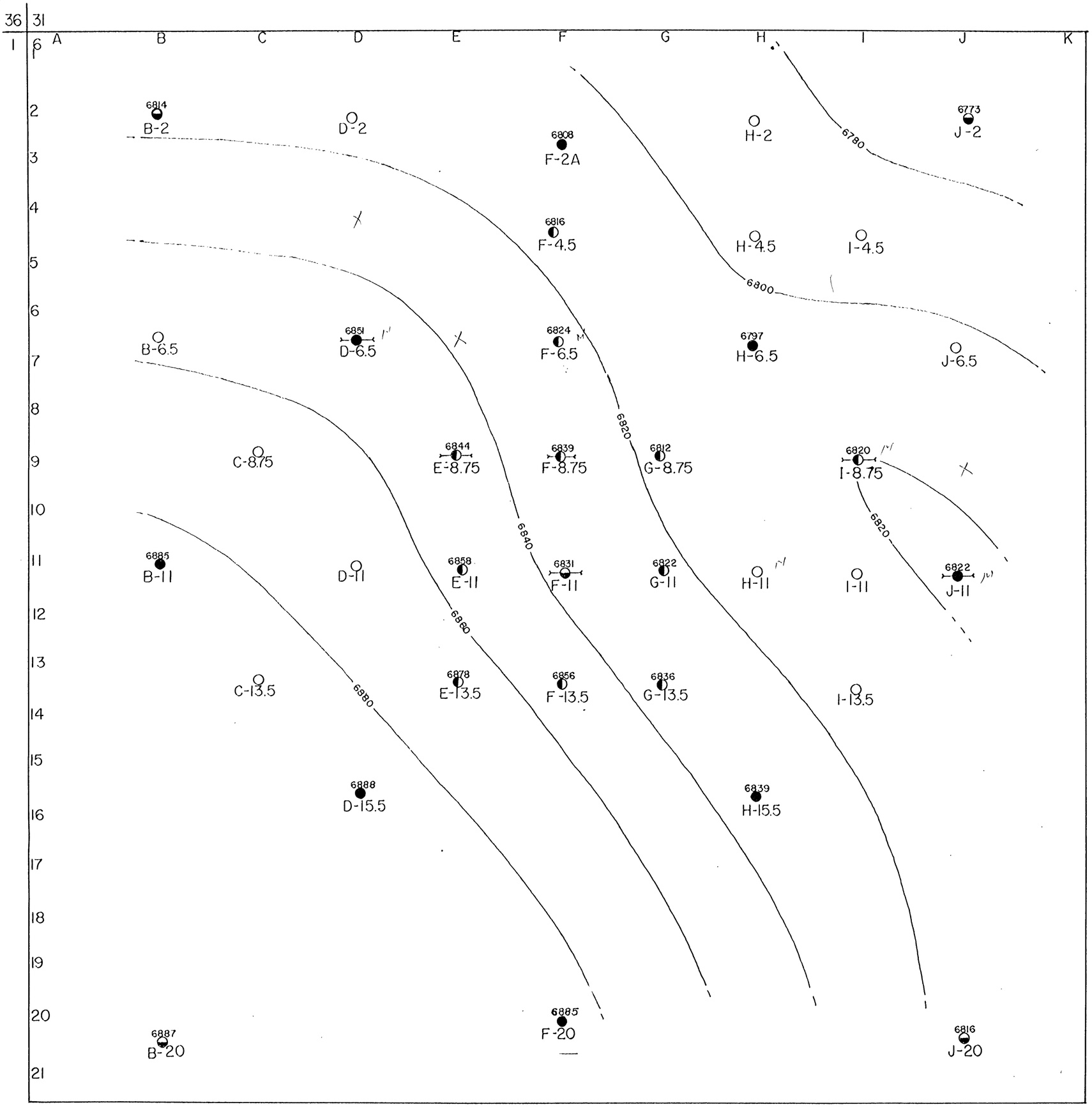
TREASURE
URANIUM & RESOURSES INC.

HOLE NO. F-4.5
PROJECT DMEA Dkt #4411 Stage 2
NW¼ Sec 6 T13N R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV. 6982 DEPTH 408
LAT. 310, 023 NMPM
DEP. 521, 724 NMPM
COMPLETED May 31, 1957
LOGGED BY M. Hemmingway
RECOVERY Plugged to total depth
2' sp/s - 216' to total depth

% U308	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC. MINERALS	MISCELLANEOUS (SANDSTONE / SILTSTONE / CLAYSTONE)	DEPTH
						Rd Jmbb	190
							200
		Gy					
							210
		Gv				Sandy siltstone	
							220
		Var					
							230
		Rd					240
							250
						Jmbb Jmwc	260
		Lt			P		
		Y	F		r	well rounded sandstone w/ s pyrite & blk spx a white clay spx sorting excellent cement fair	270
		Yl			i t e		
							280
		Yl	S a n d y			variegated sandy siltstone	
		Var					290
		Rd					
		Lt Yl	F F-M		P	sli arkosic sandstone - s pyrite	300
		Lt Yl	M to C		r i t e	sorting good cement fair	
		Yl					310
		Yl Yw Var Rd	S a n d y			variegated sandy siltstone	
			F				320
		Lt	to		P	arkosic sandstone sorting good cement poor s wh clay spx	330
			M		y		
		Y					340
			M to C		r		
		Y	C			conglomeritic sandstone w/ A wh clay spx sorting poor cement poor	350
			to		t		
			C Cgl		e		360
		Yw br	C			very clayey sandstone	
		b u f f	C			conglomeritic sandstone	370
			to			s-A white clay specks sorting poor cement poor	380
		Lt	C				390
		Yl					
							400
		Lt Yl Gy Yl	F Qtz			very dense hard sandstone Jmwc var siltstone Jmrc	410
						Total depth 408'	420

F-4.5

MHH 6/57



14°

TREASURE URANIUM & RESOURSES
SALT LAKE CITY

DRILL HOLE & STRUCTURE MAP

NW 1/4 SEC. T13N, R9W
MCKINLEY CO., NEW MEXICO

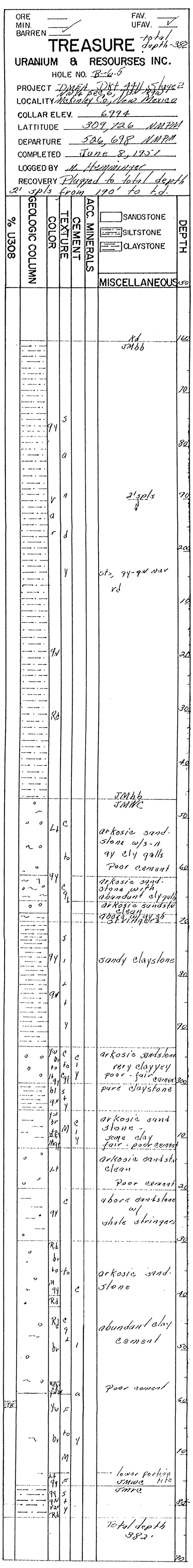
- ◒ HOLES DRILLED BY TREASURE URANIUM DURING MARCH '56
- ● DMEA DKT 4411 HOLES DRILLED DURING MARCH '57
- ◐ DMEA DKT 4411 HOLES DRILLED DURING MAY '57
- ○ DMEA DKT 4411 HOLES TO BE DRILLED
- ⊢O⊣ HOLES CONTAINING AT LEAST 0.020 % U_3O_8 IN THICKNESSES GREATER THAN 1'.

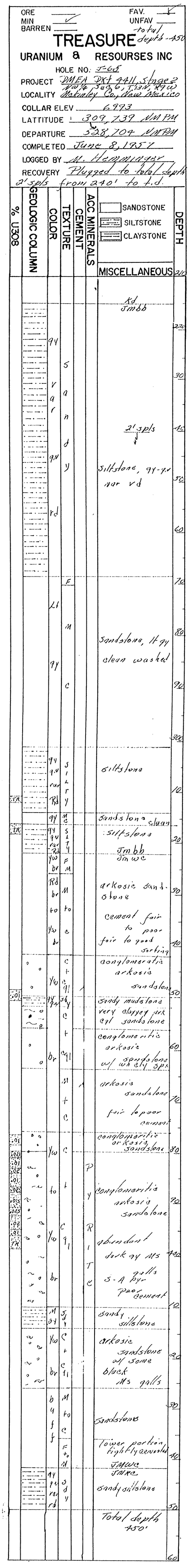
CONTOURED ON CONTACT OF WHITE SS & DARK CARBONACEOUS SH. - BOTH WITHIN THE DAKOTA SS

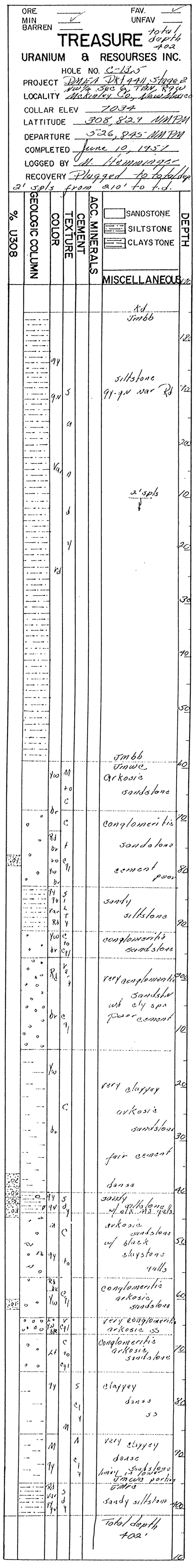
CONTOUR INTERVAL 20'

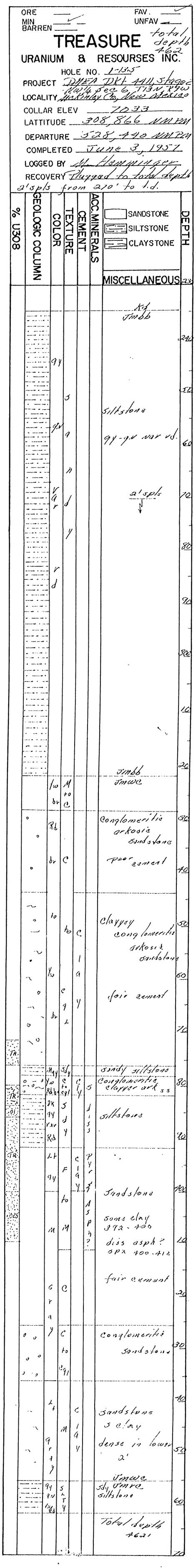
SCALE 1" = 200' JUNE 1957

M. HEMMINGER


ORE
MIN.
BARREN
FAV.
UFAV.
TREASURE
total depth 382
URANIUM & RESOURSES INC.
HOLE NO. B-6.5
PROJECT DMEA DKt 4411, Stage 2
NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV. 6994
LATTITUDE 309,726 NMPM
DEPARTURE 526,698 NMPM
COMPLETED June 8, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth
2' spls from 190' to t.d.
% U308
GEOLOGIC COLUMN
COLOR
TEXTURE
CEMENT
ACC. MINERALS
SANDSTONE
SILTSTONE
CLAYSTONE
DEPTH
MISCELLANEOUS
Total depth 382'
B-6.5


ORE
MIN
BARREN
FAV.
UNFAV
TREASURE
total depth 450
URANIUM & RESOURSES INC
HOLE NO. J-6.5
PROJECT DMEA DKt 4411, Stage 2
NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV 6993
LATTITUDE 309,739 NMPM
DEPARTURE 528,704 NMPM
COMPLETED June 8, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth
2' spls from 240' to t.d.
% U308
GEOLOGIC COLUMN
COLOR
TEXTURE
CEMENT
ACC. MINERALS
SANDSTONE
SILTSTONE
CLAYSTONE
DEPTH
MISCELLANEOUS
Total depth 450'
J-6.5


ORE
MIN
BARREN
FAV.
UNFAV
TREASURE
total depth 402
URANIUM & RESOURSES INC.
HOLE NO. C-13.5
PROJECT DMEA DKt 4411, Stage 2
NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV 7034
LATTITUDE 308,829 NMPM
DEPARTURE 526,845 NMPM
COMPLETED June 10, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total dep
2' spls from 210' to t.d.
% U308
GEOLOGIC COLUMN
COLOR
TEXTURE
CEMENT
ACC. MINERALS
SANDSTONE
SILTSTONE
CLAYSTONE
DEPTH
MISCELLANEOUS
Total depth 402'
C-13.5


ORE
MIN
BARREN
FAV.
UNFAV
TREASURE
total depth 462
URANIUM & RESOURSES INC.
HOLE NO. I-13.5
PROJECT DMEA DKt 4411, Stage 2
NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV 7033
LATTITUDE 308,866 NMPM
DEPARTURE 528,490 NMPM
COMPLETED June 3, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth
2' spls from 210' to t.d.
% U308
GEOLOGIC COLUMN
COLOR
TEXTURE
CEMENT
ACC. MINERALS
SANDSTONE
SILTSTONE
CLAYSTONE
DEPTH
MISCELLANEOUS
Total depth 462'
I-13.5

ORE ____ FAV. ✓
MIN. ____ UNFAV. ____
BARREN ✓

TREASURE URANIUM & RESOURSES INC.

total depth 402'

HOLE NO. D-2
PROJECT DMEA DKT 4411 Stage 2
LOCALITY Nor 1/4 Sec 6 T13N R9W McKinley Co, New Mexico
COLLAR ELEV 6977
LATTITUDE 310,296 NMPM
DEPARTURE 527,188 NMPM
COMPLETED June 9, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth
2' spls from 212' to t.d.

URANIUM %	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC. MINERALS	MISCELLANEOUS (SANDSTONE / SILTSTONE / CLAYSTONE)	DEPTH
							180
						Kd Jmbb	190
		gy	s				
		gn				Sandy	200
			d			Siltstone	
		var					10
			y			2' spls	
		Rd					20
							30
		wh	F			clean well rd sandstone	
							40
		Gy	s				
							50
		Gn					
			d			Sandy	60
						Siltstone	
		var					70
			y				
							80
		Rd					
							90
						Jmbb Jmwc	300
		lt gy	F			Sandstone	
		lt gy	s d			Sandy	
		gn	y			Siltstone	10
		gn var Rd	s i l t y			var sdy siltstone	
		Rd br to pk	v			well sorted	20
		yw br	F			clean Sandstone	
		lt gy					30
		yw	F			fair cement	40
		yw br m gy	M to C			arkosic sandstone cement poor	
		gy gn var Rd	s a n d y			variegated Sandy siltstone	50
TR.							60
		Black	s h a l y		C	Carbonaceous shaly sand str.	
		Dk gy	F to M		Asph?	asphalt? coated well rounded sandstone	70
		gy to yw br	s a n d y			Sandy claystone	
		yw br	M			arkosic sandstone	80
		to	to C			very clayey arkosic sandstone	90
		gy				Jmwc Jmrc	
		gy gn var Rd	s a n d y			Sandy siltstone	400
						Total depth 402'	10

D-2

ORE ____ FAV. ✓
MIN. ____ UNFAV. ____
BARREN ✓

TREASURE URANIUM & RESOURSES INC.

total depth 436'

HOLE NO. H-2
PROJECT DMEA DKT 4411 Stage 2
LOCALITY Nor 1/4 Sec 6, T13N R9W McKinley Co, New Mexico
COLLAR ELEV 6994
LATTITUDE 310,294 NMPM
DEPARTURE 528,190 NMPM
COMPLETED June 10, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth
2' spls from 280' to t.d.

% U308	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC. MINERALS	MISCELLANEOUS (SANDSTONE / SILTSTONE / CLAYSTONE)	DEPTH
							230
						Kd Jmbb	240
		gy	s				
		gn	a			Sandy	50
		var	n			Siltstone	
			d				60
			y			2' spls	
		Rd					70
							80
		Rd				2' spls	
							90
		lt	F to M	P y r i t e		Arkosic Sandstone with some disseminated pyrite and some white clay specks.	300
TR.							10
		gy	s a n d y			Sandy	
		gn var	n d y			Siltstone	20
		Rd					30
		lt M gy	M	P y r i t e		well rounded sandstone with 5 diss asph? spx & pyr.	40
TR.		gy gn var Rd	s a n d y			Sandy siltstone Jmbb Jmwc	50
.03							
		lt	very fine to fine	A b u n d a n t		some to abundant white clay specks	60
		M					90
		gy	M	c l a y	P y r i t e	Sandstone 5-A diss pyrite Abundant May clay cement dense bott 2'	400
		lt gy to wh	F to M				10
		gy	M				20
						Jmwc Jmrc	50
		gy gn var Rd	s d y			Sandy siltstone	
						Total depth 436'	90

H-2

ORE ____ FAV. ✓
MIN. ____ UNFAV. ____
BARREN ✓

TREASURE URANIUM & RESOURSES INC.

total depth 452'

HOLE NO. H-4.5
PROJECT DMEA DKT 4411 Stage 2
LOCALITY Nor 1/4 Sec 6, T13N R9W McKinley Co, New Mexico
COLLAR ELEV 7010
LATTITUDE 310,015 NMPM
DEPARTURE 528,187 NMPM
COMPLETED June 1, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth
2' spls from 225' to t.d.

% U308	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC. MINERALS	MISCELLANEOUS (SANDSTONE / SILTSTONE / CLAYSTONE)	DEPTH
							240
						Kd Jmbb	250
		gy					
		gn	s				
			a			Sandy	60
		var	n			Siltstone	
			d				70
			y				
		Rd					80
						2' spls	
		wh	F			sandstone	90
		Gy	s				
		gy	a			Sandy	300
			n			siltstone	
		var	d				10
			y				
TR.		Rd					20
		M			A	well rounded quartzite sandstone abundant black asph? specks	
		gy var a y	F		s p h		30
							40
.015							
		gy gn var Rd	s a n d y			Sandy siltstone	50
						Jmbb Jmwc	60
		lt gy	F			Sandstone	
TR.		dk	s a n d y			very sandy siltstone	70
		gy					
							80
		bu ff to lt	M to C			arkosic Sandstone Poor cement	90
		gy	C			Conglomeritic arkosic Sandstone	400
		M	to				10
		gy	C a l			Poor cement	20
							30
		lt	M to C			Clayey arkosic sand stone dense lower 3' Jmwc Jmrc	40
		gy					
TR.		gy gn var Rd	s d y			Sandy siltstone	50
						Total depth 452'	60

H-4.5

ORE ____ FAV. ✓
MIN. ____ UNFAV. ____
BARREN ✓

TREASURE URANIUM & RESOURSES INC.

total depth 435'

HOLE NO. I-4.5
PROJECT DMEA DKT 4411 Stage 2
LOCALITY Nor 1/4 Sec 6, T13N R9W McKinley Co, New Mexico
COLLAR ELEV 6994
LATTITUDE 310,019 NMPM
DEPARTURE 528,452 NMPM
COMPLETED June 1, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth
2' spls from 240' to t.d.

% U308	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC. MINERALS	MISCELLANEOUS (SANDSTONE / SILTSTONE / CLAYSTONE)	DEPTH
							200
						Kd Jmbb	210
		gy					
			s				20
		gn					
			a			2' spls	30
			n				
		var					40
			d			Sandy	50
			y			Siltstone	
		Rd					60
							80
		lt gy to wh	F			Jmbb Jmwc well sorted Sandstone	90
			M to C				300
		gy	C to C gl			conglomeritic arkosic sandstone	10
TR.		gy gn	v s a n d y			very Sandy siltstone	20
							30
			M to C			very clayey sandstone	40
TR.		lt gy to	C			very clayey conglomeritic Sandstone	50
			C a l			fair cement	60
		yw dk gy	Sd			Sandy siltstone	
		bu ff to yw br	C to C gl			very clayey conglomeritic sandstone poor-fair cem	70
							80
			C to C gl		B u f f	Conglomeritic Sandstone Poor cement	90
							400
			F to M		f	Sandstone w/ 5 clay	
			C gl			conglomeritic ss	10
			F			Sandstone	
			C			clean washed conglomeritic sandstone dense bott 3' Jmwc	20
			to				
			C gl				30
		var	Sdy			sandy siltstone Total depth 435'	40

I-4.5

ORE ___ MIN. ___ BARREN ✓ FAV ___ UNFAV ✓

TREASURE

URANIUM & RESOURSES INC.

HOLE NO D-11
PROJECT DMEA Dkt 4411, Stage 2 NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV 7013
LATTITUDE 309,100 NMPM
DEPARTURE 527,192 NMPM
COMPLETED June 7, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth 2' sp/s from 210' to t.d.

% U308	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC MINERALS	MISCELLANEOUS	DEPTH
						Kd / Jmbb	
		gy, gn, var, rd	s, d, y			Sandy siltstone	80, 90, 100
						2' sp/s	110
		lt	c to m			very clayey arkosic ss	120
		gy, wh	c gl				
		gy, gn, var, rd	s, d, y			Sandy siltstone	130, 140, 150
						Jmbb / Jmwc	
		lt	f to m		Py	arkosic ss with wh cly spx & diss pyr	160
		gy	c to cgl		Py	above ss becomes cgl	
			m			do	170
			c cgl			do	
		m	f			arkosic sandstone	
		gy	s d y			sandy claystone	180
		yw br	c			conglomeritic arkosic sandstone	190
		rd br	to c gl			w/ wh cly spx poor cement	200
			f m			sandstone w/ a/ gn cly galls	
		yw br	c to c gl			Conglomeritic arkosic ss w/ gn Poor cem. cly galls	210
TR		rd br	m c to c gl			sandstone conglomeritic sandstone	
		lt gy	s d y			Sandy Mudstone	230
TR		lt gy	f	c		very clayey sandstone fair cement	240
		gy		a y		very clayey conglomeritic sandstone	250
		gy	c to				
		lt gy yw br	c gl			conglomeritic arkosic sandstone w/ wh cly spx	260
TR		yw			Li m	sandstone w/ lim ?	
		lt gy	m			sandstone w/ shale stks	280
			to			very clayey sandstone	
		m gy	c			dense lower 2'	290
						Jmwc	
		gy gn	s d y			Jmrc siltstone	
						Total depth 296'	300

D-11

ORE ___ MIN ___ BARREN ✓ FAV ___ UNFAV ✓

TREASURE

Total depth 472

URANIUM & RESOURSES INC.

HOLE NO. H-11
PROJECT DMEA Dkt 4411, Stage 2 NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV 7030
LATTITUDE 309,153 NMPM
DEPARTURE 528,200 NMPM
COMPLETED June 4, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth 2' sp/s from 260' to t.d.

% U308	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC MINERALS	MISCELLANEOUS	DEPTH
						Kd / Jmbb	230
		gy, gn, var, rd	s, d, y			Sandy siltstone	240, 250
						2' sp/s	260
		wh	f			clean sandstone	
		gy, gn, var, rd	s, d, y			Sandy siltstone	280, 290, 300
						Jmbb / Jmwc	310
		lt gy	f			Sandstone cement fair - poor	320
		yw br to off	c				
		rd br					330
		lt gy	s d y			sdy siltstone	340
		yw br off	f-m			sandstone	
		b br	c			conglomeratic sand-stone	350
			f				
			f	c gl			370
		m gy	cl y			claystone	
		lt gy	c + c gl to off	c l a y		clayey conglomeritic sandstone fair cement	380
		m gy	s d y			sandy siltstone	390
				c		clayey	400
		b	f	l a y		sandstone fair cement	410
		u	m c				
			c to c gl			conglomeritic clayey sandstone	420
			f				
TR			f	m		Arkosic sandstone	
			to			Poor cement	440
			c			lower 3' is tite.	450
						Jmwc / Jmrc	
		gy gn var rd	s d y			sandy siltstone	460, 470
						Total depth 472'	480

H-11

ORE ___ MIN ___ BARREN ✓ FAV. ✓ UNFAV ___

TREASURE

URANIUM & RESOURSES INC.

HOLE NO. I-11
PROJECT DMEA Dkt 4411, Stage 2 NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV 7023
LATTITUDE 309,166 NMPM
DEPARTURE 528,444 NMPM
COMPLETED June 1, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth 2' sp/s from 270' to t.d.

% U308	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC MINERALS	MISCELLANEOUS	DEPTH
						Kd / Jmbb	240
		gy	s				250
			a				260
		var				2' sp/s	270
			h			Sandy	280
		var	d			siltstone	290
			y				300
		rd					310
						Jmbb / Jmwc	320
		o	b u f f	c to c gl		conglomeratic sandstone	330
TR			m	s d y		Sandy siltstone	340
		gy					350
		lt gy to br	c t c gl			Conglomeritic sandstone Poor cement	360
			b u f f	y		very conglomeritic	370
TR			to	c a l		sandstone	380
		rd					390
		br					400
			m	c a l y	c	very clayey conglomeritic sandstone	410
		gy				fair cement	420
TR							
		gy	v s a n d y			very sandy Mudstone	430
						Jmwc	
		gy var rd	s d y			sdy Jmrc siltstone	440
						Total depth 442'	450

I-11

ORE ___ MIN ___ BARREN ✓ FAV ✓ UNFAV ___

TREASURE

URANIUM & RESOURSES INC.

HOLE NO. C-8.75
PROJECT DMEA Dkt 4411, Stage 2 NW¼ Sec 6, T13N, R9W
LOCALITY McKinley Co., New Mexico
COLLAR ELEV 7005
LATTITUDE 309,414 NMPM
DEPARTURE 526,845 NMPM
COMPLETED June 6, 1957
LOGGED BY M. Hemminger
RECOVERY Plugged to total depth 2' sp/s from 200' to t.d.

% U308	GEOLOGIC COLUMN	COLOR	TEXTURE	CEMENT	ACC MINERALS	MISCELLANEOUS	DEPTH
						Kd / Jmbb	110
		gy	s				80
		gn	a				90
		var				2' sp/s	100
			n			Sandy	110
		rd	d			siltstone	120
			y				130
							140
						Jmbb / Jmwc	150
			m to c			sandstone poor cement	160
			sd y			sandy siltstone	
		gy	c to c gl			conglomeritic arkosic sandstone	170
			c l y			claystone	180
			c			conglomeritic	190
		lt	to			arkosic sandstone	
		gy					200
			c gl			Poor cement	210
TR		gy gn	cl y			claystone	
		lt gy	c c gl cl y			conglomeritic ss claystone	
TR							220
			c lt to c gl			conglomeritic arkosic sandstone Poor cement	230
							240
			to		c	Very conglomeritic sandstone with abundant clay cement	250
					v		260
					l a y		
			f f	c g l			
						fair cement	280
						dense lower 2'	
			m			Jmwc	
		gy var rd	s d y			Jmrc sandy siltstone	290
						Total depth 292'	300

C-8.75