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

224 New Customhouse
Denver 2, Colorado

FINAL DISTRIBUTION
DEC 12 1956
MADE

December 10, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket No. 3786 (Uranium), Contract No. Idm-E907, Josey and Roper et al. (Big Hole - Big Bear claim group), Fremont County, Colorado - Operator's Monthly Progress Report for the month of August, 1956.

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.

It is deemed 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 August, 1956, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

The Operator submitted a separate Final Report (summary) of Stage I drilling results. The Stage I Final Report is attached to this Monthly Report and Voucher.

REMARKS

Date of Report ----------	November 22, 1956
Date Received in Field Office	November 23, 1956
Date Received in Region Office	November 29, 1956

Original signed by
W. M. TRAVER

W. M. Traver

JDC:ewa

cc: MF-104 File E
Chairman Op. Comm. (2)
Shaw (2)
Harshman - w/copy of engineer's report.
Chron.

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
November 28, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Carl Belser

DMEA
DEPARTMENT OF THE INTERIOR
NOV 29 1956
REGION III
DENVER, COLORADO

Through: John F. Shaw
Supervising Mining Engineer

Subject: DMEA Docket 3786 (Uranium) Contract Idm-2907, Jonny-Reporter
Big Hole-Big Bear Claim Group, Fremont County, Colorado.
—Progress report for August 1956.

An inspection of progress was made on September 13, 1956, accompanied by Jack Q. Frisselli, geologist project supervisor. Three stage I holes and two stage II holes were completed during the period. The pertinent data from the operator's graphic logs and Marine Exploration Company's gamma-ray logs are given below:

Hole No.	Location	Measure Feet	Core Feet	Total Feet	Core Recovery %	Gamma Ray Logs-%U3O8
15	West Center Big Bear #1	60	290	350	21	< 0.065
18	West Center Big Bear #2	20	130	150	38	
19	West Center Big Bear #1	20	70	90	41	
	Stage II					
37	So. Center Big Hole #1	20	55	75	31	1 ft. 0.14
40	So. Center Big Hole #3	17	108	125	22	No significant anomaly
	Total for August	137	653	790	30.6	

137 feet measure drilling at $1.75/ft.	$239.75
653 feet core drilling at $2.50/ft.	1,632.50
Incidental expense 790 feet at $0.68/ft.	537.20
Bulldozing 23 hours at $11.48/ft.	264.00
	$2,673.45

Payment of 75 percent of the amount claimed or $2,005.09 is recommended.

Carl Belser
Mining Engineer

97

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 [illegible] 6 1956 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]
Contract Amount, $ [illegible] Government Participation: [illegible] % Amount, $ [illegible]

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts:						
Short Form [illegible]	[illegible]	[illegible]	[illegible]			
Drilling	[illegible]	[illegible]	[illegible]			
Bulldozing						
Crosscutting	[illegible]	[illegible]	[illegible]			
Drifting	[illegible]	[illegible]	[illegible]			
(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	[illegible]	7.00	7.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	[illegible]	[illegible]	[illegible]	2,673.45	8,512.97	11,186.42

RECEIVED DEC 17 1956 DMEA

tify that the above bill is correct and just and that payment therefor has not eived, 1956 [illegible]

*Payee [illegible]

[signature] Title [illegible]

is signed or receipted in the name of a company or corporation, the name of the person writing porate name, as well as the capacity in which he signs, must appear. For example: "John ohn Smith, Secretary," or "Treasurer," as the case may be.

le 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully sentation to any department or agency of the United States as to any matter within its

(Instructions on reverse)

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

$ 3005.04

Signature [signature]
(Authorized Certifying Officer)

Date 12/11/56 Vou. No. DMA 57-64

(See other side)

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

PROGRESS REPORT

JOSEY-ROPER CORE DRILLING PROJECT
Big Hole Area, Fremont County, Colorado

Month ending August 31, 1956

Docket DMEA 3786 (Uranium)
Contract Idm-E907

A total of five core holes were completed during the month of August, 1956, of which three were Stage I core holes and two Stage II core holes. Stage I drilling was completed on August 12, 1956, and Stage II drilling commenced on August 24, 1956.

The schedule of holes drilled during the month of August is as follows:

Hole No.	Date Commenced	Date Completed	Total Depth	Footage Non-core	Footage Cored	Core Rec.
15	7-27-56	8-4-56	350'	60'	290'	21%
18	8-8-56	8-11-56	150'	20'	130'	38%
19	8-11-56	8-12-56	90'	20'	70'	41%
Stage II						
37	8-24-56	8-25-56	75'	20'	55'	31%
40	8-28-56	8-31-56	125'	17'	108'	22%

Core hole #35 was abandoned August 28, 1956 at 55' with a core barrel bit adapter and diamond core head left in the hole. Exceptionally thick boulder beds were encountered in the hole, so a decision was made to attempt to complete C. H. #40 for the calendar month and then return to C. H. #35A, located 20 ' south of C. H. #35. Core hole #35A was drilling at 34' at 5:00 pm, August 31, 1956. Data on this hole will be included in the progress report for September.

Anomalous radioactivity encountered by drilling during the month of August was recorded as follows:

C. H. #15	92-93'	0.065%Ue
	114-116'	0.06%Ue
	147-149'	0.045%Ue
C. H. #18	None	
C. H. #19	None	
C. H. #37	23-24'	0.14%Ue
C. H. #40	None	

Dozer work for Stage II roads and drill site locations was performed during the period from August 17 to August 23, 1956. A total of 32 hours dozer work at $12.00 per hour and 6 hours moving time at $10.00 per hour was required to complete the work.

Core recoveries continue to be very low due to penetrating boulder and pebble beds interbedded with the soft mudstones and shaley sandstones, the latter not being competent enough to enter the core barrel following recovery of granite boulder fragments. Various combinations of diamond and saw-tooth core heads and soft and hard core catchers have been utilized in an attempt to increase core recovery with no apparent increase in efficiency.

Respectfully submitted,

Jack Q. Frizzell

Jack Q. Frizzell, Geol.

JOSEY - ROFER - MARMIK - AMUREX
JOINT VENTURE URANIUM EXPLORATION EXPENSES
MONTH OF AUGUST, 1956

DOCKET NO. DMEA - 3786
CONTRACT NO. Idm-E 907
SUPPORTING SCHEDULE FILED WITH DMEA

	100% COST INCURRED
CODE ACCOUNTS I	
Non-Core Drilling	$ 239.75
Core Drilling	1,632.50
Bulldozer	264.00
Sub-Total	$ 2,136.25
CODE ACCOUNTS II TO VII	
Supervision Fee	$ 1,500.00
Rental - Graphic Recorder	500.00
Accounting Services	100.00
Stenographic Services	6.54
Stationery and Postage	71.13
Telephone and Telegraph	17.75
Drilling Mud	16.79
Sub-Total:-Code II TO VII	$ 2,212.21
GRAND TOTAL	$ 4,348.46

EXPECTED BUDGETARY DMEA EXPENSE CONTRIBUTION		CONTRACT AMOUNT (ALLOWABLE COSTS)	DMEA PORTION 75 %
Non-Core Drilling	137 feet @ $ 1.75 Foot or	$ 239.75	$ 179.81
Core Drilling	653 feet @ $ 2.50 Foot or	1,632.50	1,224.38
Bulldozer	17 hours @ $12.00 an Hour or	204.00	153.00
Bulldozer	6 hours @ $10.00 an Hour or	60.00	45.00
APPLIED FIXED UNIT COST			
Actual footage drilled for month of August was:	790 feet @ $ 0.68 per foot or	537.20	402.90
		$ 2,673.45	* $ 2,005.09

* EXPECTED EXPENSE CONTRIBUTION FROM DMEA

JOSEY - ROPER - MARMIK - AMUREX
JOINT VENTURE URANIUM EXPLORATION PROJECT
COMPUTATION OF ALL OPERATORS' PORTION OF REMAINING COSTS

MONTH OF AUGUST, 1956

CODE ACCOUNTS I	100 % COST INCURRED	LESS: DMEA PORTION 75%	OPERATORS' PORTION OF REMAINING COSTS
Non-Core Drilling	$ 239.75	$ 179.81	$ 59.94
Core Drilling	1,632.50	1,224.38	408.12
Bulldozer	204.00	153.00	51.00
Bulldozer	60.00	45.00	15.00
Sub-Total	$ 2,136.25	$ 1,602.19	$ 534.06

CODE ACCOUNTS II TO VII FALLING UNDER FIXED UNIT COST ACTUAL COSTS INCURRED		* APPLIED DECIMAL TO DERIVE DMEA PORTION	LESS: DMEA PORTION 75% OF APPLIED	OPERATORS' NON-REIMBURSEABLE COSTS
Supervision Fee	$ 1,500.00	$ 364.25	$ 273.19	$ 1,226.81
Rental-graphic Recorder	500.00	121.42	91.07	408.93
Accounting Services	100.00	24.28	18.21	81.79
Stenographic Services	6.54	1.59	1.19	5.35
Stationery and Postage	71.13	17.27	12.95	58.18
Telephone and Telegraph	17.75	4.31	3.23	14.52
Drilling Mud	16.79	4.08	3.06	13.73
Sub-Total: Code II to VII	$ 2,212.21	$ 537.20	$ 402.90	$ 1,809.31
GRAND TOTAL	$ 4,348.46			$ 2,343.37

EXPECTED EXPENSE CONTRIBUTION FROM DMEA . . . . . $ 2,005.09

$$* \frac{\$\ 537.20}{\$\ 2,212.21} = .24283$$

Oper: Josey-Roper
Proj: Big Hole Area
C.H. #18 | Fremont Co., Colo
Loc: Center Big Bar #1
T.D: 150' Comp. Date: 8-11-56
Core Data: cored 20-150'
Core Rec. 31%

Gamma Log Data: No radioactivity

Casing: Uncased
Remarks: Elev. 5826.6 G.L

10	soil & boulders fine gravel
20	f.g. to m.g. arkosic ss. yellow FeO, stn. common coring
30	yellow ark. ss. & cmg.
40	ark. ss.
50	gry. shly sd. sdy. sh.
60	gry. f.g. ark. & qtz ss. gry. m.g. qtz. & ark ss. Abund blk. min.
70	dk. gry ark. ss. gry. c.g. ark. ss.
80	gry. ark. ss.
90	gry. m.g. ss. Abund. muscovite soft. ark. ss. Muscovite soft. shly. muscovite ss.
100	gry. c.g. ark. ss
10	gry. c.g. ark. ss.
20	gry. c.g. ark. ss & cong.
30	gry. c.g. ark. ss. & cong.
40	gry. c.g. ark. ss. & cong.
50	gry. c.g. ark. ss. & cong. T.D

RECEIVED
DEC 17 1950
D.M.R.A.

Oper: Josey-Roper
Proj: Big Hole Area
C.H. #19 Fremont Co., Colo.
Loc: Center Big Beaver #1
T.D. 90' Comp Date: 8-12-56
Core Data: Cored 20-90'. Core rec. 41%

Gamma Log Data: No radioactivity

Casing: Uncased
Remarks: Elev. G.L. 5826.0

	soil & boulders 10				
	blue clay & shly ss. yellow ark. ss. 20				
	yellow ark ss. 30 gry. argill f.g. ss.				
	blue & gry. sdy. clay & argill ss. 40				
	blue & gry. clay yellow m.g. ark. ss. 50				
	gry. f.g. ss granite pebbles 60 shly. cong.				
	gry. f.g. ss. carbon laminae 70				
	gry. f.g. ss 80 pebble cong.				

AUG 17 195

Oper: Josey-Roper
Proj: Big Hole Area
C.H.: #37 | Fremont Co., Colo.
Loc: Center Big Hole #1
T.D.: 75' Comp. Date: 8-25-56
Core Data: Cored 20-75'
Rec. 31%

Gamma Log Data: 0.14% Ue
23-24'

Casing: Set 28' 2½" I.D.
Remarks: G.L. Elev. 5553.6'

		Ue .1	.2	.3
10				
20	boulders & pebbles			
30	gry argillaceous sd.			
40				
50	boulders & arkosic conq.			
60	boulders & arkosic conglomerate			
70	gry. conq.			
80	T.D. 75'			
90				
100				

Oper: Josey - Roper
Proj: Big Hole Area
C.H. #40 | Fremont Co., Colo.
Loc: Center common line Big Hole 2 & 3
T.D. 125' Comp. Date 8-31-56
Core Data: Cored 17' - 125'
Rec. 22%

Gamma Log Data: No significant radioactivity

Casing: Uncased
Remarks: G.L. Elev. 5748.0

10	
20	gry sdy. sh.
30	gry. shly. sd. c.g. ark. cong.
40	gry. c.g. angular qtz ark cong.
50	c.g. ark. cong. v.f.g. gry. shly ss.
60	dk. gry. c.g. cong.
70	dk. gry. c.g. qtz. ss.
80	dk. gry. c.g. qtz. ss.
90	dk gry. c.g. sli. shly. ss.
100	granite pebbles c.g. cong. gry silty ss
10	dk. brn to choc. brn shale dk. gry. v.f.g. qtz ss.
20	dk gry. c.g. to m.g. qtz & ark. ss.
30	dk. gry. c.g. ark. ss. T.D. 125'
40	

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 18

CLAIM No. Big Bear #1

LOCATION Big Hole Area

SECTION _____ TOWNSHIP 18 S RANGE 73 W

SURVEY 1 ELEVATION 5826.6 DATE 8-11-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 150'

OPERATOR Frizzell-Baldwin

REMARKS _____

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 19

CLAIM No. Big Bear #1

LOCATION Big Hole Area

SECTION ____ TOWNSHIP 18S RANGE 73W

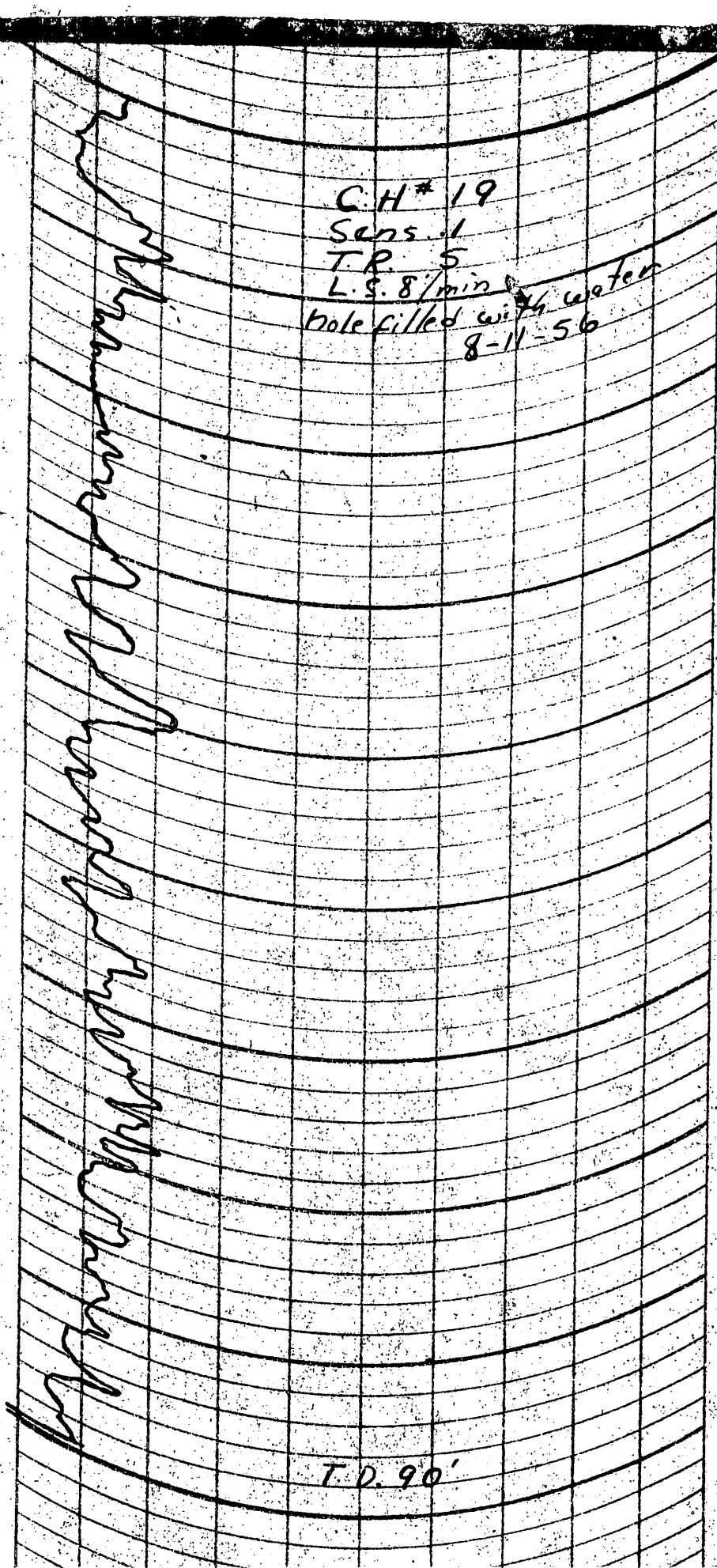
SURVEY 1 ELEVATION 5826.0 DATE 8-12-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 90'

OPERATOR Frizzell-Baldwin

REMARKS



MADE IN U.S.A. THE STERLINE-ANGUS CO., INC., INDIANAPOLIS, IND., U.S.A. • ES

DEC - 7 1956
LIBRARY

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 37

CLAIM No. Big Hole #1

LOCATION Center of claim

SECTION TOWNSHIP 18s RANGE 73W

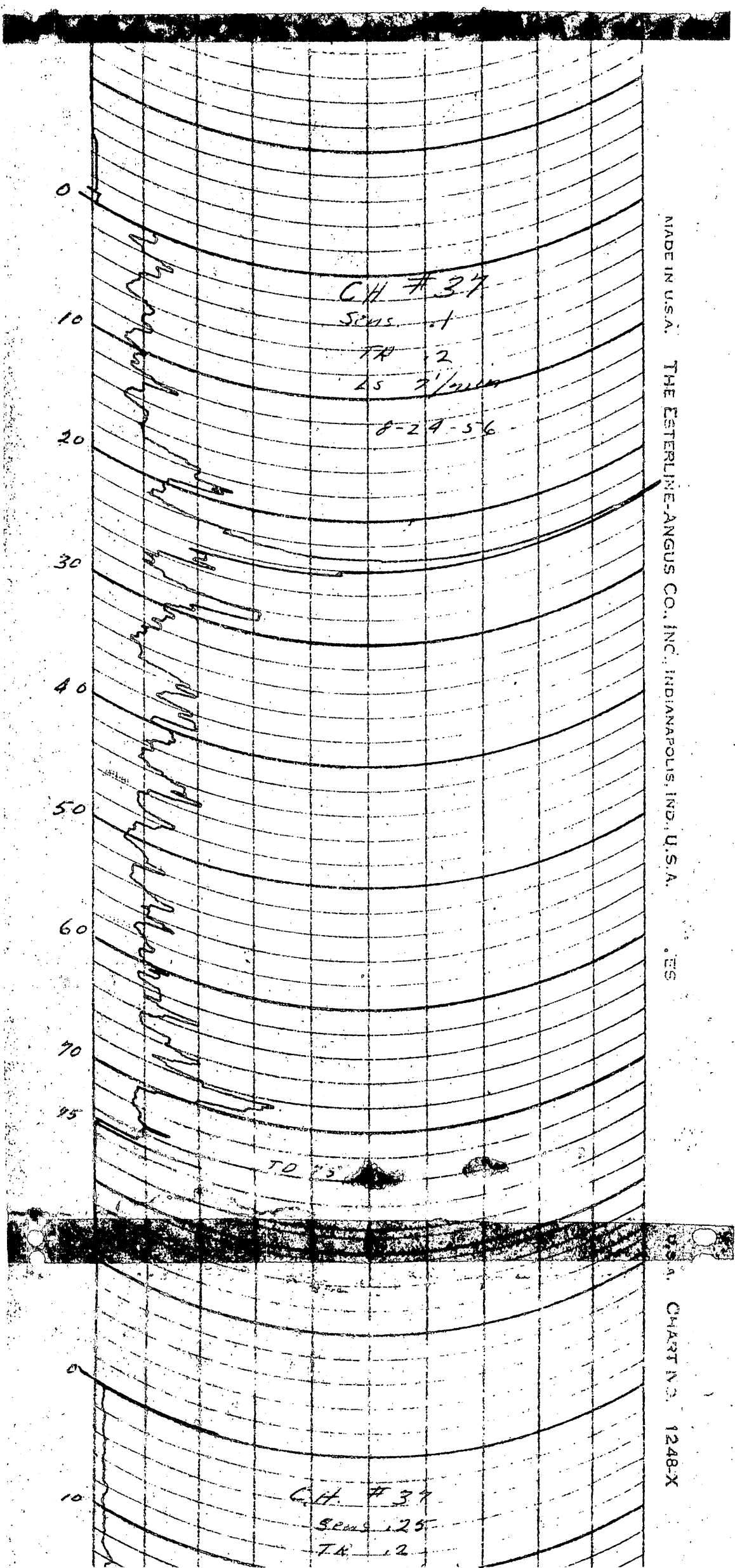
SURVEY 1 & 2 ELEVATION 5553.6 DATE 8-24-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 75'

OPERATOR Jernigan

REMARKS 28' of 2½" I.D. casing set
Hole filled with water when logged



8-29-56
0.14%/hr
20
30
40
50
60
70
75
T.0.75'

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 40

CLAIM No. Big Hole No. 2 E3

LOCATION Center of common line, Big Hole No 2 E3

SECTION TOWNSHIP 18 S RANGE 73 W

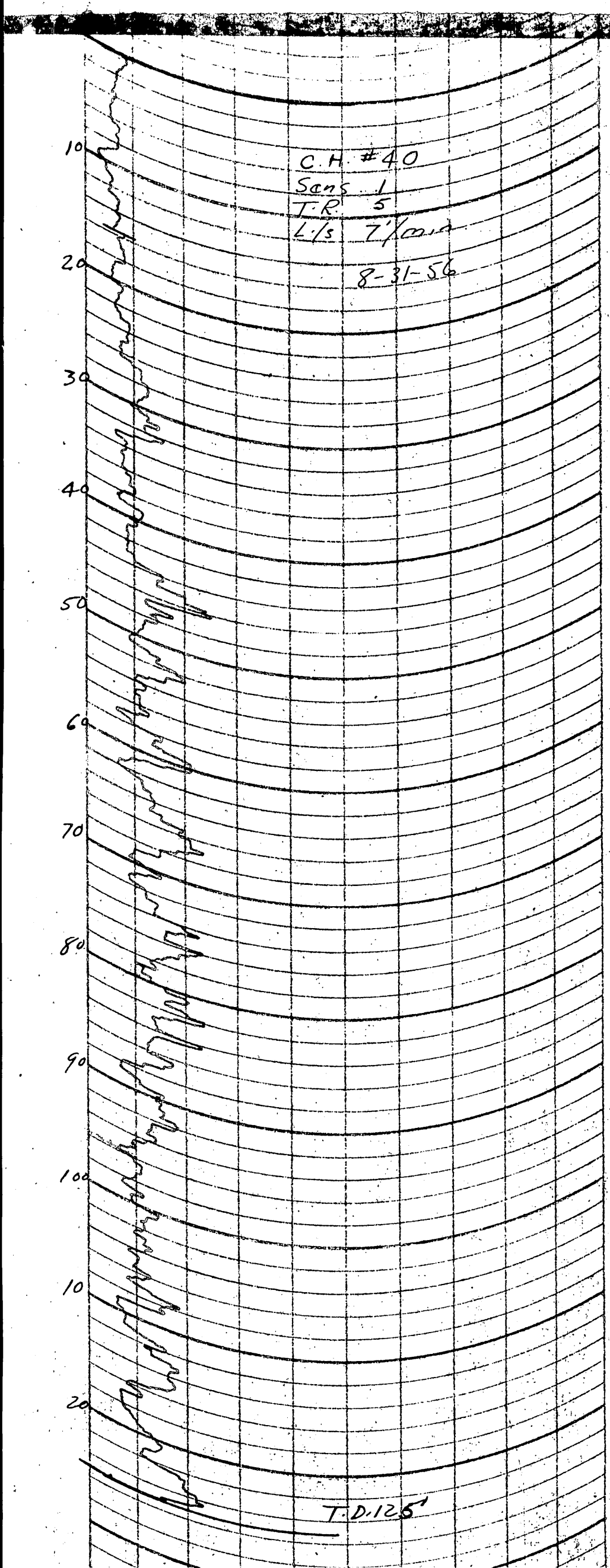
SURVEY 1 ELEVATION 5748.0 DATE 8-31-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 125'

OPERATOR Baldwin - Frizzell

REMARKS Hole filled with water



THE ESTERLINE-ANGU

RECEIVED
DEC 17 1956
D.A.E.A.

FINAL REPORT
STAGE I DRILLING PROGRAM

Josey-Roper Core Drilling Project
Big Hole Area, Fremont County, Colorado

Period Ending August 12, 1956

Docket DMEA 3786 (Uranium)
Contract Idm E-907

Stage I drilling on the Josey-Roper Project was completed at 1:00 pm., August 12, 1956. Core hole Nos. 15, 18, and 19 were completed during the period from July 27 to August 12, 1956. The schedule of holes drilled is as follows:

Hole No.	Date Commenced	Date Completed	Total Depth	Footage Non-core	Footage Cored	Core Rec.
15	7-27-56	8-4-56	350'	60'	290'	21%
18	8-8-56	8-11-56	150'	20'	130'	38%
19	8-11-56	8-12-56	90'	20'	70'	41%

Anomalous radioactivity was recorded by gamma-ray log on C. H. #15 at 92-93' (0.065%Ue), 114-116' (0.06%Ue), and 147-149' (0.045%Ue). No radioactivity was recorded on core hole Nos. 18 or 19.

Total footage drilled and cored during Stage I is as follows:

Calendar Month	Total Footage	Footage Drilled	Footage Cored	Percent Cored
May	692	455	237	34.2%
June	1,086	91	995	91.6%
July	652	90	562	86.2%
August (12)	590	100	490	83.0%
	3,020	736	2,284	75.6%

Drilling during Stage I established the presence of an elongate, northwest-trending sedimentary basin underlying the northern portion of the Josey-Roper project, flanked by relatively shallow areas of deposition on the south, east, and west. Deposits in the deeper basin are composed of fine-grained sandstone and arkosics, shaley and argillaceous sandstones, shale, and medium-to-coarse arkosic conglomerates and boulder beds. Coarse-grained arkosic conglomerates, medium-to-coarse sandstones, and heavy boulder beds characterize deposits in the shallow portion of the basin.

Uranium mineralization within the area occurs in several outcrop deposits of small mudstone channels and lenses. Subsurface mineralization, as recorded in samples and by gamma-ray log, occurs both in thin mudstone lenses and in fine-grained shaley-sandstones impregnated with disseminated, granular carbon trash. Low-grade mineralization was recorded by gamma-ray log in 12 of 16 holes drilled during Stage I. Concentration above 0.2% Ue was logged only in C. H. #39.

Positive correlation of radioactive zones or stratigraphic sections between core holes has not been established on any of the holes drilled during Stage I. It is evident that the sedimentary formations within the basin were deposited under highly varied and erratic conditions of climate, topograhy,

and tectonic movement, resulting in extreme stratigraphic variation within geographically small areas of the basin. Geologic conditions conducive to deposition of small mudstone channels or carbonaceous sandstone lenses were repeated many times in numerous restricted localities throughout the depositional history of the basin. Thus, the numerous occurrences of uranium mineralization found by drilling during Stage I are direct evidence of the highly varied geologic conditions present within the Project area.

Conclusions:

Information gained from drilling during Stage I of the Josey-Roper Project gives evidence that deposits of uranium present within the project area are low in grade and small in areal extent. In the event that the additional drilling approved for Stage II does not locate any deposits of commercial grade ore, it is recommended that further exploration not be carried out.

Respectfully submitted

Jack Q. Frizzell

Jack Q. Frizzell, Geologist
Project Supervisor

FINAL DISTRIBUTION
MADE DEC 13 1956

RECEIVED
DEC 17 1956
DENVER

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

Administrative Audit Difference Statement

Jack G. Josey & Frank C. Lopez
1706 - 17 C & I Life Building
Houston, Texas

Date: December 12, 1956
Payee's Reference: September 1956

Gentlemen:

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

Amount Claimed $ 2,238.00

Difference $

Amount Approved $ 2,238.00

The reason for the difference was due to:

Withhold - $500.00 pending resolution of matters relative to closing the account.

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

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

224 New Customhouse
Denver 2, Colorado

December 10, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket No. 3786 (Uranium), Contract No. Idm-E907, Josey and Roper et al. (Big Hole - Big Bear claim group), Fremont County, Colorado - Operator's Monthly Progress Report for the month of September, 1956 (FINAL)

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.

It is deemed 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 September, 1956, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations, except for the following deduction:

Withhold an amount of $500.00 pending resolution of matters relative to closing the account. Except for one hole which could not be drilled because of difficult topographic conditions, all approved work has been completed. Termination of the contract is in process.

The Operator's narrative report, map, lithologic logs, and radiometric logs for September, 1956, are incorporated in the

Operator's final engineering and geologic report, which has been received in this office. The Final Report is adequate and has been retained for separate distribution as required.

REMARKS

Date of Report - - - - - - - - - - - - - - - - November 22, 1956
Date Received in Field Office - - - - - - - - November 23, 1956
Date Received in Region Office - - - - - - - November 29, 1956

Original signed by
W. M. TRAVER

W. M. Traver

JDC:ewa
cc: MF-104 File E907
Sec. Op. Comm. (2)
Shaw (2)
Harshman - w/copy of engineer's report
Townsend
Chron.

DMEA
DEPARTMENT OF THE INTERIOR

NOV 29 1956
REGION III
DENVER, COLORADO

REGION III

Memorandum

Building 20
Denver Federal Center
Denver 2, Colorado
November 29, 1956

RECEIVED
DEC 17 1956
D.M.E.A.

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: W. D. McMillan

Subject: DMEA Docket 3786 (Uranium) Contract Idm-E907, Josey-Roper Big Hole-Big Bear Claim Group, Fremont County, Colorado. —Progress report for September 1956.

An inspection of progress was made on September 13, 1956, accompanied by Jack Q. Frissell, geologist project engineer. Five stage II drill holes were completed by September 13, 1956, completeing the project. One stage II drill hole, No. 30, was not drilled because of being located on a basic dike. The pertinent data from the operator's graphic logs and Marine Exploration Company's gamma-ray logs for work performed in September are given below:

Hole	Footage Noncore	Footage Core	Footage Total	% Core Recovery	Radiometric Logs Interval (feet)	% Eq
35A	28	72	100	10.2	49-50	0.075
					52-53	0.065
					68-70	0.200
41	25	175	200	10.0	52-53	0.160
					178-179	0.075
43	17	258	275	21.0	81-82	0.050
					130-132	0.085
					141-142	0.055
42	20	130	150	13.5	None	
	90	635	725	16.1		

Incidental expense 725 feet at $0.68/ft.	$493.00
635 feet of core drilling at $2.50/ft.	1,587.50
90 feet of noncore drilling at $1.75/ft.	157.50
	$2,238.00

The above costs are recommended as allowable, and 75 percent, or $1,678.50, as the Government's part of the costs.

No further work will be done on the project. The operator's final report, which also covers progress for September 1956, has been received and all data to support operator's claims are in order.

A O Carlson for
W. D. McMillan
Mining Engineer

WDM:sh
Enc.
cc: 6
Idm-E907
Chron

Form M-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 September 1956 Docket No. DMEA 3786 Contract No. Idm-E 907

Operator's Name Jack S. Josey & Frank C. Roper, Partners; Marmik Oil Co. & Amurex Oil Co., Joint Venture Minerals Uranium

Address 1706-7 C & I Life Building, Houston 2, Texas

Contract Amount, $ 2,238.00 Government Participation: 75 % Amount, $ 1,678.50

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) ~~xxxxxxxx~~ Contracts:						
Short Form						
Drilling (Core) 635'	1,587.50	6,117.50	7,705.00			
Bulldozing	-0-	1,522.00	1,522.00			
~~xxxxxxxx~~ Incidental						
~~xxxxxx~~ Allowance 725'	493.00	2,188.92	2,681.92			
Non-Core Drilling 90'	157.50	1,351.00	1,508.50			
(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	-0-	7.00	7.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2,238.00	11,186.42	13,424.42	2,238.00	11,186.42	13,424.42

RECEIVED DEC 17 1956 D.M.E.A.

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

Date Nov. 22, 1956 *Payee JACK S. JOSEY

Per [signature] Title AGENT

*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:

$ 1178.50

Signature [signature]
(Authorized Certifying Officer)

Date 12/11/56 Vou. No. DMA 57-65

(See other side)

Note: Withhold 500.00

(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. ..... in accordance with the terms of the contract.

Signature *[illegible] for W.D.McMillan #1678.50* Title ..... Date .....

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature *W. M. [illegible]* Title Executive Officer Date DEC 10 1956

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

RECEIVED DEC 17 1956 D.M.E.A.

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1956 Docket No. DMEA 3786 Contract No. Idm-E 907

Operator's Name Jack S. Josey & Frank C. Roper, Partners; Marmik Oil Co. & Amurex Oil Co., Joint Venture Minerals Uranium

Address 1706-7 C & I Life Building, Houston 2, Texas

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~~ Bulldozing	Hours	-0-	-0-	1,522.00	130Hrs	11.708	216Hrs	2,700.00
Shafts								
Winzes								
Drilling: Core	Feet	1,587.50	635'	7,705.00	3,082'	2.50	8095'	21,047.00
~~Sinking~~ Non-Core	Feet	157.50	90'	1,508.50	862'	1.75	3965'	6,938.75
Auger								
~~Mapping~~ Incidental ~~Prospecting~~ Costs	Feet	493.00	725'	2,681.92	3,944'	.68	12060'	8,200.80
Test Pits								
Roads and Trails								
Sampling & Analysis	Each	-0-	-0-	7.00	2	3.50	200	700.00
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		2,238.00		13,424.42				39,586.55

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 Nov. 22, 1956 Operator JACK S. JOSEY

Per [signature] Title AGENT

Remarks:

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

(Instructions on reverse)

(For Government use only)

A S Kouchman for W. D. McMillan

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

JOSEY - ROPER - MARMIK - AMUREX
JOINT VENTURE URANIUM EXPLORATION EXPENSES

DOCKET NO. DMEA - 3786
CONTRACT NO. Idm-E 907
SUPPORTING SCHEDULE FILED WITH DMEA

PERIOD COVERED
SEPTEMBER 1 TO SEPTEMBER 15, 1956

RECEIVED DEC 17 1956 D.M.E.A.

	100% COST INCURRED
CODE ACCOUNTS I	
Non-Core Drilling	$ 157.50
Core Drilling	1,587.50
Sub-Total	$ 1,745.00
CODE ACCOUNTS II TO VII	
Supervision Fee	$ 750.00
Rental - Graphic Recorder	250.00
Accounting Services	50.00
Sub-Total:-Code II TO VII	$ 1,050.00
GRAND TOTAL	$ 2,795.00

EXPECTED BUDGETARY DMEA EXPENSE CONTRIBUTION		CONTRACT AMOUNT (ALLOWABLE COSTS)	DMEA PORTION 75 %
Non-Core Drilling	90 feet @ $1.75/foot or	$ 157.50	$ 118.13
Core Drilling	635 feet @ $2.50/foot or	1,587.50	1,190.62
APPLIED FIXED UNIT COST			
Actual footage drilled for period of September 1 to September 15 was:	725 feet @ $0.68 per foot or	493.00	369.75
		$ 2,238.00	* $ 1,678.50

* EXPECTED EXPENSE CONTRIBUTION FROM DMEA

RECEIVED
DEC 17 1956
D.M.E.A.

JOSEY- ROPER - MARMIK - AMUREX
JOINT VENTURE URANIUM EXPLORATION PROJECT
COMPUTATION OF ALL OPERATORS' PORTION OF REMAINING COSTS

PERIOD COVERED
SEPTEMBER 1 TO SEPTEMBER 15, 1956

	COST INCURRED		LESS: DMEA PORTION 75%	OPERATORS' PORTION OF REMAINING COSTS
CODE ACCOUNTS I				
Non-Core Drilling	$ 157.50		$ 118.13	$ 39.37
Core Drilling	1,587.50		1,190.62	396,88
Sub-Total	$ 1,745.00		$ 1,308.75	$ 436.25
CODE ACCOUNTS II TO VII FALLING UNDER FIXED UNIT COST		* APPLIED DECIMAL TO DERIVE DMEA PORTION	LESS: DMEA PORTION 75% OF APPLIED	OPERATORS' NON-REIMBURSEABLE COSTS
ACTUAL COSTS INCURRED				
Supervision Fee	$ 750.00	$ 352.14	$ 264.10	$ 485.90
Rental-Graphic Recorder	250.00	117.38	88.04	161.96
Accounting Services	50.00	23.48	17.61	32.39
Sub-Total:- Code II to VII	$ 1,050.00	$ 493.00	$ 369.75	$ 680.25
GRAND TOTAL	$ 2,795.00			$ 1,116.50

EXPECTED EXPENSE CONTRIBUTION FROM DMEA . . . . . $ 1,678.50

$$* \frac{\$\ 493.00}{\$\ 1,050.00} = .46952$$

Dma 57-39

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

RECEIVED
OCT - 1 1956

224 New Customhouse
Denver 2, Colorado

September 25, 1956

FINAL DISTRIBUTION
MADE SEP 27 1956

RECEIVED
OCT - 1 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3786 (Uranium) Contract Idm-E907, Josey and Roper, et al. (Big Hole - Big Bear claim group) Fremont County, Colorado - Operator's Monthly Progress Report for the month of July, 1956

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.

It is deemed 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 as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Remarks

Date of Report - - - - - - - - - - - - - - September 5, 1956
Date Received in Field Office- - - - - September 6, 1956
Date Received in Region Office- - - - September 14, 1956
Held pending return of signed narrative report by Operator

W. M. TRAVER

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E907
Sec. Op. Comm. (2)
Shaw (2)
Harshman w/copy engr's report
Chron.

DMEA
DEPARTMENT OF THE INTERIOR
SEP 14 1956
DENVER, COLORADO

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
September 13, 1956

RECEIVED
OCT - 1 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: W. D. McMillan

Subject: DMEA 3786 (Uranium) Contract IAm-2907, Jenny-Roper, Big Hole, Big Bear Claim Group, Echo Canyon, Fremont County, Colorado -- Progress report for July 1956

An inspection of progress was made on August 2, 1956 accompanied by Jack Q. Frizzell, geologist-project supervisor. Due to equipment troubles, only two holes were completed during July. The pertinent data from the operator's graphic logs and Marine Exploration Company's Gamma-Ray logs are given below:

Hole No.	Location	Non-core feet	Core Feet	Core Rec. %	Gamma-Ray Logs $\%U_3O_8$
25	Center Big Hole #4	30	270	42	152-153 - 0.072 219-220 - 0.045
12	Center Big Bear #3	60	292	24	90-93 - 0.082 271-272 - 0.060 289-291 - 0.110
		90	562	Total feet 652	

Approved costs are as follows:

90 feet of non-core drilling at $1.75/ft.	$157.50
562 feet of core drilling at $2.50/ft.	1405.00
Contingencies, 652 feet at $0.68/ft.	443.36
Total approved	$2005.86

It is recommended that 75 percent of the approved costs amounting to $1504.39 be approved for payment. The narrative report is adequate, with maps, geologic and Gamma-Ray logs and receipts for payment.

W. D. McMillan
Mining Engineer

WDM/mm
cc: 6 IAm-2907
Chrom

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

Budget Bureau No. 42-R1036.5

RECEIVED
OCT - 1 1956

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

Month of July 1956 Docket No. DMEA 3766 Contract No. [illegible]
Operator's Name Jack O. Jobby & Grant G. [illegible], Partners; Minerals Uranium
Address [illegible] Building, Houston 2, Tex.
Contract Amount, $ 3,005.86 Government Participation: 75 % Amount, $ 1,504.40

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts:						
Short Form (Core) 562'	1,405.00	3,000.00	4,405.00			
Drilling	None	1,024.00	1,024.00			
Bulldozing						
Crosscutting						
Drifting						
Drilling (Core-Core) 90'	157.50	955.50	1,113.00			
(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	None	7.00	7.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
652' @ 0.68 Foot	443.36	1,207.04	1,650.40			
(8) Contingencies (specify):						
TOTALS	2,005.86	6,935.54	8,941.40	2,005.86	6,935.54	8,941.40
				1/2	428.43	428.43
					6,507.11	8,512.97

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

Date September 5, 1956 *Payee JACK O. JOBBY

Per Robert H. [illegible] Title AGENT

When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing company or corporate name, as well as the capacity in which he signs, must appear. For example: "John 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 ement or representation to any department or agency of the United States as to any matter within its n.

(Instructions on reverse)

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

$ 1,504.39

Signature RRC
(Authorized Certifying Officer)

Date 9-26-56 Vou. No. DMA-57-39
(See other side)

Previous Disallowance

(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. Tdm-E907 in accordance with the terms of the contract.

Signature Leone Mullan ($1,504.39) Title Min Engr Date 9/17/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Laney Title Executive Officer Date SEP 25 1956

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

RECEIVED
OCT - 1 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1956 Docket No. DMEA 326 Contract No. DMA-3 937
Operator's Name Jack S. Jones & Frank C. Loper, Partners; Minerals Uranium
Address Frank H. Co., Drax H. Co., Joint Venture
1707 Gt. Tex. Ins., Houston 2, Texas

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 Underscor	hours	none	none	1,604.00	162	1604.00	225	2,700.00
Shafts								
Winzes								
Drilling: Core	feet	1,405.00	502'	4,433.00	1,196'	4405.00	5,095'	21,027.00
Short Hole	feet	157.50	90'	1,113.00	636'	1113.00	2,965'	6,930.75
Auger								
Stripping								
Trenching								
Test Pits	feet	439.30	653'	1,632.40	2,650'	1632.40	12000'	6,200.00
Roads and Trails	mch	none	none	7.00	3	7.00	300	700.00
Total Distributed Costs		2,005.00		9,942.40				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		2,005.00		9,942.40				39,596.75

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 September 5, 1956 Operator Jack S. Jones
Per Robert H. Nash Title Agent

Remarks:

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

(Instructions on reverse)

(For Government use only)

Leone Miller

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

ROBERT H. PARK - AGENT

RECEIVED
OCT - 1 1956

September 5, 1956

Mr. John F. Shaw
U. S. Bureau of Mines
Room 137, Building 20
Denver Federal Center
Denver 2, Colorado

RE: FORM MF-104 & FORM MF-104A -
DOCKET DMEA 3786 (URANIUM) - CONTRACT Idm - E907
LETTER DATED AUGUST 31, 1956, FROM MR. W. M. TRAVER,
EXECUTIVE OFFICER, DMEA FIELD TEAM, REGION III

Dear Sir:

Enclosed are five (5) copies of each of the above-numbered Forms. They are the reports due for the month of July, 1956 from the Josey-Roper, et al, Project in the Big Bear claim group situated in Fremont County, Colorado.

In Mr. Traver's letter dated August 31, 1956 to Mr. Robert H. Park, Agent, please refer to the disallowance made for the cost of one foot of non-core drilling and the "incidental allowance" (we have termed this as "Fixed Unit Cost") for one foot of drilling in hole No. 38. Under the circumstances existing at the time of filing the reports to your office, we have to rely on the Invoices received from Marine Exploration Company and upon our Colorado Geologist, Mr. Frizzell. Because of the above reasons cited, that is also why the first May report contained erroneous figures for footage drilled and cored. We are sorry that such things have occurred and grateful that your office have brought the errors to our attention.

In regards to placing the "incidental allowance" in the wrong space on Form MF-104A please refer to the June report. We also placed the "incidental allowance" in the wrong space for the month of June. For the month of July, we have placed the "incidental allowance" charge in accordance with Mr. Traver's instructions.

Please note that we have not taken into consideration on this July report the value, or the units, that Mr. Traver said were disallowed for the month of May. If it is in order, we would appreciate your letting us show this adjustment in the monthly report filed as soon after we receive the government's 75% allowance for the month of May.

Very truly yours,

JOSEY-ROPER ET AL

Robert H. Park

Robert H. Park - Agent

RHP:jd
Encls.

COPY

DMEA
DEPARTMENT OF THE INTERIOR
SEP 25 1956
REGION III
DENVER, COLORADO

RECEIVED
OCT - 1 1956

PROGRESS REPORT

Josey-Roper Core Drilling Project
Big Hole Area, Fremont County, Colorado

Month Ending July 31, 1956

Docket DMEA 3786 (Uranium)
Contract Idm-E907

Two holes were completed during the month of July on the Josey-Roper drilling project. The schedule of holes drilled during this third calendar month of operations is as follows:

Hole No.	Date Commenced	Date Completed	Total Depth	Footage Non-core	Footage Cored	Core Rec.
25	7-7-56	7-17-56	300'	30'	270'	42%
12	7-17-56	7-27-56	352'	60'	292'	24%

Anomalous radioactivity was recorded by gamma-ray log on both core holes as follows:

C.H. #25 152-153', 0.072%Ue; 219-220', 0.045%Ue

C.H. #12 90-93', 0.082%Ue; 271-272', 0.068%Ue; 289½-291', 0.11%Ue

Positive correlation of stratigraphic or radiometric logs on the two holes is not evident.

Approximately 8 days drilling time was lost during July due to rig repairs following an accident in which the rig was overturned, and waiting on equipment deliveries.

On July 31, 1956, C. H. #15 was coring at 170'. Stage I drilling should be completed by August 15, 1956, with the completion of core holes #15, #18, and #19.

Total footage drilled and cored to July 27, 1956 is as follows:

Calendar Month	Total Footage	Footage Drilled	Footage Cored	Percent Cored
May	692	455	237	34.2
June	1,086	91	995	91.6
July	652	90	562	86.2
Total	2,430	636	1,794	74%

The accompanying map was prepared for the report requesting approval of Stage II drilling; however, the information thereon has been brought up to date and it is forthwith made a part of this progress report.

Respectfully submitted,

Jack Q. Frizzell

Jack Q. Frizzell, Geologist
Project Supervisor

RECEIVED
OCT - 1 1958

JOSEY - ROPER - MARMIK - AMUREX
JOINT VENTURE URANIUM EXPLORATION EXPENSES
MONTH OF JULY, 1956

DOCKET NO. DMEA - 3786
CONTRACT NO. Idm-E 907
SUPPORTING SCHEDULE FILED WITH DMEA

CODE ACCOUNTS I & VII-B	100% COST INCURRED	JOINT OPERATORS BILLING — YOUR EXPENSES FOR THE MONTH OF JULY, 1956 - BEFORE DMEA EXPENSE CONTRIBUTION: JACK S. JOSEY .4375	FRANK C. ROPER .0625	MARMIK OIL COMPANY .25	AMUREX OIL COMPANY .25
Non-Core Drilling	$ 157.50	$ 68.91	$ 9.84	$ 39.38	$ 39.38
Core Drilling	1,405.00	614.69	87.81	351.25	351.25
Bulldozer	θ	θ	θ	θ	θ
Chemical Sampling and Analysis	θ	θ	θ	θ	θ
Sub-Total:	$ 1,562.50	$ 683.60	$ 97.65	$ 390.63	$ 390.62
CODE ACCOUNTS II TO VII					
Supervision Fee	$ 1,500.00	$ 656.25	$ 93.75	$ 375.00	$ 375.00
Rental	500.00	218.75	31.25	125.00	125.00
Accounting Services	100.00	43.75	6.25	25.00	25.00
Stenographic Services	2.57	1.12	.16	.64	.65
Stationery & Postage	30.77	13.47	1.92	7.69	7.69
Supervisor's Transportation Expense	12.80	5.60	.80	3.20	3.20
Telephone and Telegraph	60.71	26.56	3.79	15.18	15.18
Drilling Mud	5.41	2.37	.34	1.35	1.35
Sub-Total: - Code II TO VII	$ 2,212.26	$ 967.87	$ 138.26	$ 553.06	$ 553.07
GRAND TOTAL:	$ 3,774.76	$ 1,651.47	$ 235.91	$ 943.69	$ 943.69

EXPECTED BUDGETARY DMEA EXPENSE CONTRIBUTION		CONTRACT AMOUNT (ALLOWABLE COSTS)	DMEA PORTION 75 %
Non-Core Drilling	90 Ft. @ $1.75 Ft. or	$ 157.50	$ 118.13
Core Drilling	562 Ft. @ $2.50 Ft. or	1,405.00	1,053.75
APPLIED FIXED UNIT COST			
Actual Footage Drilled for Month of July was: 652 Feet @ $ 0.68 per foot or -		$ 443.36	332.52
Total:		$ 2,005.86	$ 1,504.40

FR/

RECEIVED
OCT - 1 1956

JOSEY - ROPER - MARMIK - AMUREX
JOINT VENTURE URANIUM EXPLORATION PROJECTS
COMPUTATION OF EACH OPERATOR'S PORTION OF
DMEA EXPECTED EXPENSE CONTRIBUTION FOR THE
MONTH OF JULY, 1956

	100% COST INCURRED		LESS DMEA PORTION 75%	OPERATOR'S REMAINING PORTION OF COSTS	IF DMEA APPROVES CHARGES FOR JULY AND MAKES A REFUND THESE WOULD BE ACTUAL CHARGES TO EACH OPERATOR'S ACCOUNT: JACK S. JOSEY .4375	FRANK C. ROPER .0625	MARMIK OIL CO. .25	AMUREX OIL CO. .25
CODE ACCOUNTS I & VII-B								
Non-Core Drilling	$ 157.50		$ 118.13	$ 39.37	$ 17.23	$ 2.46	$ 9.84	$ 9.84
Core Drilling	1,405.00		1,053.75	153.25	153.67	21.95	87.81	87.82
Bulldozer	θ		θ	θ				
Chemical Sampling & Analysis	θ		θ	θ				
Sub-Total:	$ 1,562.50		$ 1,171.88	$ 390.62	$ 170.90	$ 24.41	$ 97.65	$ 97.66
CODE ACCOUNTS II TO VII (FALLING UNDER FIXED UNIT COSTS								
ACTUAL COSTS INCURRED		*APPLIED DECIMAL TO DERIVE DMEA PORTION	LESS: DMEA PORTION 75% OF APPLIED	OPERATOR'S NON-REIMBURSABLE COSTS				
Supervision Fee	$ 1,500.00	$ 300.61	$ 225.45	$ 1,274.55	$ 557.61	$ 79.66	$ 318.64	$ 318.64
Rental	500.00	100.20	75.15	424.85	185.87	26.55	106.21	106.22
Accounting Services	100.00	20.04	15.03	84.97	37.18	5.31	21.24	21.24
Stenographic Services	2.57	.52	.39	2.18	.95	.14	.55	.54
Stationery & Postage	30.77	6.17	4.63	26.14	11.44	1.63	6.54	6.53
Supervisor's Trans. Exp.	12.80	2.57	1.93	10.87	4.76	.68	2.71	2.72
Telephone & Telegraph	60.71	12.17	9.13	51.58	22.57	3.22	12.90	12.89
Drilling Mud	5.41	1.08	.81	4.60	2.01	.29	1.15	1.15
		$ 443.36						
Sub-Total: CODE II TO VII	$ 2,212.26		$ 332.52	$ 1,879.74	$ 822.39	$ 117.48	$ 469.94	$ 469.93
GRAND TOTAL:	$ 3,774.76		$ 1,504.40	$ 2,270.36	$ 993.29	$ 141.89	$ 567.59	$ 567.59
ACTUAL JULY BILLING:					$ 1,651.47	$ 235.91	$ 943.69	$ 943.69
EXPECTED EXPENSE CONTRIBUTION FROM DMEA:				$ 1,504.40	$ 658.18	$ 94.02	$ 376.10	$ 376.10
				$ 3,774.76				
PROBABLE NET COST TO OPERATORS:					$ 993.29	$ 141.89	$ 567.59	$ 567.59

$$* \frac{\$\ 443.36}{\$\ 2,212.26} = .20041$$

FR/

JOSEY - ROPER - MARMIK - AMUREX

SCHEDULE OF ACTUAL COSTS FOR CODE ACCOUNTS II TO VII
TO ARRIVE AT OPERATOR'S NON-REIMBURSEABLE COSTS

RECEIVED
OCT - 1 1956

MONTH OF JULY, 1956

		ACTUAL COST AMOUNT
II-B	Supervision Fee	$ 1,500.00
IV-A	Rental	500.00
VII-E	Accounting Services	100.00
VII-F	Stenographic Services	2.57
VII-G	Stationery & Postage	30.77
VII-I	Supervisor's Transportation Expense	12.80
VII-L	Telephone & Telegraph	60.71
VII-M	Drilling Mud	5.41

Total Amount of Actual Cost Incurred for Code Accounts II to VII $ 2,212.26

Applied Fixed Unit Cost
652 Feet @ $ 0.68 per foot $ 443.36

Expected Applied Fixed Unit Cost from DMEA (75% of $ 443.36) $ 332.52

Operator's Remaining Non-Reimburseable Costs* $ 1,879.74

* See Page 2 - Column 4

FR/

MARINE EXPLORATION COMPANY

5115 WESTHEIMER ROAD
HOUSTON 19, TEXAS

RECEIVED
OCT - 1 1956

A. B. HAMIL, PRESIDENT
G. M. MACE, JR., VICE PRESIDENT
G. L. BARKSDALE, VICE PRESIDENT
C. P. MYERS, VICE PRESIDENT
S. M. PENA, VICE PRESIDENT
R. E. BUTLER, VICE PRESIDENT
JOE NORMAN, JR., TREASURER

July 31, 1956

INVOICE NO. : LMJ-CD2-5

TO : JOSEY-ROPER ET AL
[redacted]
1706-7 C & I Life Building
Houston 2, Texas

Attention: Mr. Robert H. Parks

FOR : Services rendered July 1, 1956
through July 27, 1956
Marine Exploration Company
Contract Drill No. 2, Canon City, Colorado

CHARGES :

	DRILLED	CORED
July 1-16	30'	270'
July 17-27	60	292
Total	90'	562'

90' drilled @ $1.75/ft.	$ 157.50
562' cored @ $2.50/ft.	1,405.00
Esterline-Angus A. W. Graphic recorder for month of July, 1956	500.00
S. W. Pressey & Son Inv. dated 7-20-56	4.69
L. R. Short Lumber Company	.72
	$2,067.91

Payment of the above invoice should be made to Marine Exploration Company, 5115 Westheimer Road, Houston 19, Texas.

APPROVED:

Marine Exploration Company

By C. P. Myers

APPROVED:

JOSEY-ROPER ET AL
[redacted]
CERTIFIED TRUE COPY

By [illegible]

J-336

RECEIVED

SEP 1 [illegible] 1956

FINAL DISTRIBUTION

MADE SEP - 4 1956

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

Administrative Audit Difference Statement

[illegible]

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

[illegible]

DMEA-3786

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

Amount Claimed $ [illegible]

Difference $ [illegible]

Amount Approved $ [illegible]

The reason for the difference was due to:

[illegible]

[illegible] per hour subject to [illegible] to the extent that the rate exceeds the [illegible] approval by the Commission. [illegible]

[illegible]

[illegible] per hour. [illegible]

[illegible]

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

Very sincerely yours,

[illegible]
N. E. Stokes
Audit Section

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

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

RECEIVED
SEP 17 1956

224 New Customhouse
Denver 2, Colorado

September 7, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3786 (Uranium) Contract Idm-E907, Jack S. Josey and Frank C. Roper, et al. (Big Bear et al. claims) Fremont County, Colorado - Operator's Monthly Progress Report for the month of June, 1956

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.

Except as otherwise noted, it is deemed 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 on the following basis, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

A total of 52 1/2 hours of bulldozing time was consumed in the preparation of access roads and drill hole sites. Sites were prepared for

1. Proposed Stage II holes which have been denied.
2. Tenative Stage II holes which have not been requested by the Operator for drilling.
3. Stage I and Stage II holes which have been approved by the Government for drilling.

Costs for the above bulldozing is recommended for approval, suspension and disallowance as follows

RECEIVED
SEP 17 1956

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
August 29, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: W. D. McMillan

Subject: DMEA Docket 3786 (Uranium) Contract Idm-5907, Jack S. Jossey and Frank C. Roper, Big Hole - Big Bear Claim Group, Fremont County, Colorado -- progress report for June 1956

Progress was checked on July 5, 1956, accompanied by Jack Q. Frizzell, geologist project supervisor. Four holes were completed during June, 1956, and the pertinent data from the operator's graphic logs and Marine Exploration Company's Gamma-ray logs are given below:

Hole No.	Location	Feet Drilled Non-core	Core	Total	% Core Recovery	Gamma-ray logs Interval	U_3O_8
9	Center Big Bear #5	25	271	296	35	267-269	0.070
28	Center Big Hole #3	6	262	268	27	48-50	0.067
						58-62	0.095
						108-111	0.098
31	Center Big Hole #7	50	202	252	10	136-137	0.055
						158-159	0.075
						208-209.5	0.065
24	N. Center Big Hole #4	10	260	270	34	5-7.5	0.050
						89-90	0.085
Totals		91	995	1086			

Approved costs are as follows:

91 feet of non-core drilling at $1.75/ft.	$159.25
995 feet of core drilling at $2.50/ft.	487.50
Bulldozing - 62 ½ hours at $11.68/hr.	730.00
1 chemical analysis at $3.50	3.50
Incidental allowance 1086 feet at $0.68/ft.	738.48
Total	$4118.73

This is the same amount claimed by the applicant. It is recommended that 75 percent of the approved costs, or $3089.05 be approved for payment. The narrative report is adequate, with maps, geologic and Gamma-ray logs and receipts for payments.

WDM/mr cc: 6 Idm-5907 Chron

W. D. McMillan
Mining Engineer

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
SEP 17 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June 195 6 Docket No. DMEA 3706 Contract No. Idr-3 907
Operator's Name Jack S. Josey & Frank C. Roper, Partners; Hamik Oil Co. & Amurex Oil Co., Joint Venture Minerals Uranium
Address 1706-7 C & I Life Bldg., Houston 2, Texas
Contract Amount, $ 4,118.73 Government Participation: 75 % Amount, $ 3,089.05

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Contracts: Short Form						
Drilling (Core) 995'	2,487.50	592.50	3,080.00			
Bulldozing 62½ hrs.	730.00	954.00	1,684.00			
Crosscutting						
Drifting						
Drilling (Non-Core) 91'	159.25	796.25	955.50			
(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 (1)	3.50	3.50	7.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
FIXED UNIT COST: 1,036' @ $0.68 a Foot	738.48	470.56	1,209.04			
(8) Contingencies (specify):						
Totals	4,118.73	2,816.81	6,935.54	3692.73	2816.81	6509.54
				* 2.43		2.43

I certify that the above bill is correct and just and that payment therefor has not been received.
Date August 21, 1956 Payee Jack S. Josey
Per Lawrence H. Park Title Agent

*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: 2814.38 6507.11
$ 2,769.55

Signature RRC
(Authorized Certifying Officer)
Date 9-13-56 Vou. No. DMA-57-31
(See other side)

* Previous Disallowance

(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-E967 in accordance with the terms of the contract.

Signature Wm. McMullen (#3079.87) Title Min. Engr. Date 8/28/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Yancey Title Executive Officer Date SEP 7 1956

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

RECEIVED
SEP 17 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 195 6 Docket No. DMEA 3705 Contract No. Sdr-2 907

Operator's Name Jack G. Josey & Frank C. Ryan, Partners Minerals Uranium

Address 1706-7 & 8 Fifth Ave., Denver 2, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising Bulldozer	Hours	790.00	(2)	1,600.00	1/2	1,684.00	216	2,700.00
Shafts								
Winzes								
Drilling: Core	Foot	2,487.50	595	9,000.00	1,232	9,000.00	6,095	21,047.00
Churn Rotary-Core	Foot	157.25	91	955.50	546	955.50	3,955	6,955.75
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Sampling & Analysis	Each	3.50	1	7.00	2	7.00	200	700.00
TOTAL DISTRIBUTED COSTS		3,320.25		5,725.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc. Misc. Exp.		725.40		1,207.04				8,360.80
TOTAL COSTS		4,125.65		6,935.54				39,356.55

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

Date August 21, 1956 Operator Jack G. Josey

Per Robert H. Park Title Agent

REMARKS:

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

(Instructions on reverse)

(For Government use only)

Wayne Miller

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

RECEIVED
1 7 1956
RECEIVED
SEP 1 7 1956

PROGRESS REPORT

Jessy-Roper Core Drilling Project
Big Hole Area, Fremont County, Colorado

Month Ending June 30, 1956

Docket DMEA 3768 (Uranium)
Contract I-dm 2907

Four core holes were completed during the month of June on the Jessy-Roper drilling project. The schedule of holes drilled during this second calendar month of operations is as follows:

Hole No.	Date Commenced	Date Completed	Total Depth	Footage Non-core	Footage Cored	Core Rec.
9	5-31-56	6-7-56	296'	25'	271'	35%
23	6-3-56	6-13-56	268'	6'	262'	23%
31	6-14-56	6-19-56	252'	50'	202'	10%
24	6-20-56	6-30-56	270'	10'	260'	34%

Anomalous radioactivity was recorded on all of the holes although no commercial uranium mineralization was detected by gamma ray logging. A single radioactive zone recording 0.07%Ue was logged in C. H. #9 from 267' to 269'. Four zones were logged in C. H. #23 from 48' to 50' (0.067%Ue), 56' to 62' (0.085%Ue), 108' to 111' (0.096%Ue), and 250' to 251' (0.06%Ue). Three radioactive zones occurred in C. H. #31 from 156' to 157' (0.055%Ue), 158' to 159' (0.075%Ue), and 208' to 209½' (0.048%Ue). C. H. #24 had a shallow zone from 5' to 7½' which was logged as 0.08%Ue, and a zone from 89' to 90' which was logged as 0.088%Ue.

A possible correlation of radioactive zones exists between C. H. #23 and C. H. #31, although the stratigraphic logs are dissimilar. Gamma ray

and stratigraphic cross-sections are being prepared where applicable and will be used in the final evaluation of Stage I drilling.

The sedimentary formations penetrated in holes 9, 28, 31, and 24 exhibit a marked increase in sand, shale, and arkosic material in contrast to the boulder beds and heavy conglomerates drilled in the fences to the south. It appears evident that the northern part of the project area is located in a more negative sedimentary basin within which the occurrence of mudstone lentils and stream-channel deposits should increase.

Total footage drilled and cored to June 30, 1956 is as follows:

Calendar Month	Total Footage	Footage Drilled	Footage Cored	Percent Cored
May	892	455	237	34.2
June	1,086	91	995	91.6
Total	1,778	546	1,232	69.2%

Contract footage Stage I	3,120'
Footage to June 30, 1956	- 1,778'
Footage undrilled Stage I	1,342'

Footage undrilled Stage I / Holes undrilled Stage I = 1,342' / 5 = 268.4' av. depth per hole

Approximately five days drilling time was lost during June due to mechanical breakdowns. We will attempt to complete Stage I drilling the calendar month of July.

Respectfully submitted,

Jack Q. Frizzell

Jack Q. Frizzell, Geologist
Project Supervisor

MARINE EXPLORATION COMPANY

5115 WESTHEIMER ROAD
HOUSTON 19, TEXAS

A. B. HAMIL, PRESIDENT
G. M. MACE, JR., VICE PRESIDENT
G. L. BARKSDALE, VICE PRESIDENT
C. E. MYERS, VICE PRESIDENT
S. M. PENA, VICE PRESIDENT
R. E. BUTLER, VICE PRESIDENT
JOE NORMAN, JR., TREASURER

RECEIVED
SEP 17 1956

June 30, 1956

INVOICE NO. : LMJ-CD2 -4

JOSLEY-ROPER ET AL

TO : [redacted]
1706-7 C. & I. Life Building
Houston 2, Texas

Attention: Mr. Robert H. Parks

FOR : Services rendered May 31, 1956 through June 30, 1956
Marine Exploration Company
Contract Drill No. 2, Canon City, Colorado

CHARGES :

	DRILLED	CORED
5-31-56 thru 6-7-56	25'	271'
6-8-56 thru 6-13-56	6'	262'
6-14-56 thru 6-19-56	50'	202'
6-20-56 thru 6-30-56	10'	260'
Totals	91'	995'

91' drilled @ $1.75/ft.	159.25
995' cored @ $2.50/ft.	2,487.50
Esterling - Angus A. W. Graphic recorder for month of June, 1956	500.00
S. W. Pressey & Son	
Invoice dated 5-8-56	246.02
Invoice dated 6-12-56	141.17
	3,533.94

Payment of the above invoice should be made to Marine Exploration Company, 5115 Westheimer Road, Houston 19, Texas.

APPROVED:

Marine Exploration Company

By W. R. Barnes

APPROVED:

JOSLEY-ROPER ET AL

[redacted]

By Robert H. Parks

CHEMISTS ○ ASSAYERS ○ ENGINEERS

DENVER 5, COLORADO

Folio [illegible]

Date [illegible] 20, 1956

[illegible]

RECEIVED

SEP 17 1956

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	URANIUM OXIDE U_3O_8	VANADIUM PENTOXIDE V_2O_5	LIME CaO	RADIOMETRIC EQUIVALENT eU	THORIUM OXIDE ThO_2	TOTAL RARE EARTHS	COMBINED COLUMBIUM TANTALUM OXIDES
[illegible]	[illegible]	[illegible]		[illegible]			
	[illegible]	[illegible]		[illegible]			

Chg: $7.00 to AMEA contract
7.00 to A/R - Marine Appl. Company

PLEASE PAY FROM THIS INVOICE AS NO OTHER STATEMENT WILL BE MAILED. THANK YOU.

Charge $ [illegible]

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

VIRGIL [illegible]'S CONSTRUCTION [illegible]

RECEIVED
SEP 17 1956

Dozer Contract
Josey-Roper Project
Big Hole Area, Fremont County, Colorado

Docket DMEA 3786
Contract Idm-E907

Stage II

Date	Rate	Hours	Work Performed
6-5-56	$12.00	8	Building roads and making locations #35 & #37.
6-6-56	"	7	Building roads and making locations, Nos. 5, 7, 8, 20, 21, & 23.
6-7-56	"	8	Building roads and making locations, Nos. 13, 14, 15, & 17.
6-8-56	"	8	Building roads and making locations, Nos. 10, 11, & 26.
6-9-56	"	7½	Building roads and making locations, Nos. 27, & 33.
6-10-56	"	7	Building road and making location to #30.
6-12-56	"	7	Building roads and making locations, Nos. 29 & 32.
6-15-56	$10.00	10	Moving tractor from Big Hole over mountain to Florence, Colorado.

52½ hrs. @ $12.00 $630.00
10 hrs. @ $10.00 100.00
$730.00 Total

Approved June 27, 1956

Jack Q. Frizzell, Geol.
Project Supervisor

CERTIFIED TRUE COPY

ROBERT H. PARKER-AGENT

F-89A

RECEIVED
SEP 17 1956

JOSEY - ROPER - HARNIK - AMUREX
JOINT VENTURE URANIUM EXPLORATION EXPENSES
MONTH OF JUNE, 1956

DOCKET NO. DMRA - 3786
CONTRACT NO. Idm-E 907
SUPPORTING SCHEDULE FILED WITH DMRA

JOINT OPERATION BILLING
YOUR EXPENSES FOR THE MONTH OF JUNE, 1956-BEFORE DMRA EXPENSE CONTRIBUTION

CODE ACCOUNTS I & VII - B	100% COST INCURRED	JACK S. JOSEY .4375	FRANK C. ROPER .0625	HARNIK OIL COMPANY .25	AMUREX OIL COMPANY .25
Non-Core Drilling	$ 159.25	$ 69.66	$ 9.95	$ 39.81	$ 39.81
Core Drilling	2,487.50	1,088.28	155.47	621.87	621.87
Bulldozer	730.00	319.37	45.63	182.50	182.50
Chemical Sampling and Analysis	7.00	3.06	.44	1.75	1.75
	$ 3,383.75	$ 1,480.39	$ 211.49	$ 845.94	$ 845.93
CODE ACCOUNTS II to VII					
Supervision Fee	$ 1,500.00	$ 656.25	$ 93.75	$ 375.00	$ 375.00
Technical Services (398/398 Holes)	116.25	50.86	7.27	29.06	29.06
Pipe	387.19	169.39	24.20	96.80	96.80
Rental - Graphic Recorder	500.00	218.75	31.25	125.00	125.00
Accounting Services	100.00	43.75	6.25	25.00	25.00
Stenographic Services	4.00	1.75	.25	1.00	1.00
Stationery and Postage	27.40	11.99	1.71	6.85	6.85
Supervisor's Transportation Expense	12.80	5.60	.80	3.20	3.20
Core Boxes Expense	57.50	25.16	3.59	14.37	14.38
Telephone and Telegraph	31.00	13.56	1.94	7.75	7.75
Sub-Total:-Code II to VII	$ 2,736.14	$ 1,197.06	$ 171.01	$ 684.03	$ 684.04
GRAND TOTAL	$ 6,119.89	$ 2,677.45	$ 382.50	$ 1,529.97	$ 1,529.97

EXPECTED SUBSEQUENT DMRA EXPENSE CONTRIBUTION		CONTRACT AMOUNT (ALLOWABLE COSTS)	DMRA PORTION 75%
Non-Core Drilling	91 Ft. @ $ 1.75 Ft. or	$ 159.25	$ 119.43
Core Drilling	995 Ft. @ $ 2.50 Ft. or	2,487.50	1,865.63
Bulldozer	52-1/2 Hr. @ $12.00 Hr. or	630.00	472.50
Bulldozer	10 Hr. @ $10.00 Hr. or	100.00	75.00
Chemical Sampling & Analysis	1 Chemical Sampling & Analysis @ 7.00		
	Less: Unallowed Cost 3.50	3.50	2.63
APPLIED FIELD UNIT COST			
Actual Footage Drilled for Month of June was: 1,086 Feet @ $0.68 per foot or		738.48	553.89
		$ 4,118.73	$ 3,089.05

* EXPECTED EXPENSE CONTRIBUTION FROM DMRA

JOSEY - ROPER - MARMIK - AMUREX
JOINT VENTURE URANIUM EXPLORATION PROJECT
COMPUTATION OF EACH OPERATOR'S PORTION OF
DMEA EXPECTED EXPENSE CONTRIBUTION FOR THE
MONTH OF JUNE, 1956

CODE ACCOUNT I & VII-B	100 % COST INCURRED		LESS: DMEA PORTION 75%	OPERATORS REMAINING PORTION OF COST	IF DMEA APPROVES CHARGES FOR JUNE AND MAKES A REFUND THESE WOULD BE ACTUAL CHARGES TO EACH OPERATOR'S ACCOUNTS: JACK S. JOSEY .4375	FRANK C. ROPER .0625	MARMIK OIL COMPANY .25	AMUREX OIL COMPANY .25
Non-Core Drilling	$ 159.25		$ 119.43	$ 39.82	$ 17.42	$ 2.49	$ 9.95	$ 9.96
Core Drilling	2,487.50		1,865.63	621.87	272.07	38.87	155.47	155.46
Bulldozer	630.00		472.50	157.50	68.91	9.84	39.38	39.37
Bulldozer	100.00		75.00	25.00	10.94	1.56	6.25	6.25
Allowed Budget Cost of Chem. Samp. & Analysis	3.50		2.63	.87	.38	.05	.22	.22
Unallowed Cost of Chem. Samp. & Analysis	3.50		-0-	3.50	1.53	.22	.87	.88
Sub-Total	$ 3,383.75		$ 2,535.19	$ 848.56	$ 371.25	$ 53.03	$ 212.14	$ 212.14
CODE ACCOUNTS II TO VII (FALLING UNDER FIXED UNIT COSTS)		* APPLIED DECIMAL TO DERIVE DMEA PORTION	LESS: DMEA PORTION 75% OF APPLIED	OPERATOR'S NON-REIMBURSEABLE COSTS				
ACTUAL COSTS INCURRED								
Supervision Fee	$ 1,500.00	$ 404.84	$ 303.63	$ 1,196.37	$ 523.41	$ 74.77	$ 299.09	$ 299.10
Technical Services (39A/39B Holes)	116.25	31.38	23.53	92.72	40.57	5.79	23.18	23.18
Pipe	387.19	104.50	78.38	308.81	135.10	19.30	77.21	77.20
Rental - Graphic Recorder	500.00	134.95	101.21	398.79	174.47	24.92	99.70	99.70
Accounting Services	100.00	26.99	20.24	79.76	34.89	4.99	19.94	19.94
Stenographic Services	4.00	1.08	.81	3.19	1.40	.20	.80	.79
Stationery and Postage	27.40	7.40	5.55	21.85	9.56	1.37	5.46	5.46
Supervisor's Transportation Expense	12.80	3.45	2.59	10.21	4.47	.64	2.55	2.55
Core Boxes Expense	57.50	15.52	11.64	45.86	20.06	2.87	11.46	11.47
Telephone and Telegraph	31.00	8.37	6.28	24.72	10.82	1.54	6.18	6.18
		$ 738.48						
Sub-Total	$ 2,736.14		$ 553.86	$ 2,182.28	$ 954.75	$ 136.39	$ 545.57	$ 545.57
GRAND TOTAL	$ 6,119.89		$ 3,089.05	$ 3,030.84	$ 1,326.00	$ 189.42	$ 757.71	$ 757.71
				ACTUAL JUNE BILLING	$ 2,677.45	$ 382.50	$ 1,529.97	$ 1,529.97
		EXPECTED EXPENSE CONTRIBUTION FROM DMEA		3,089.05	1,351.45	193.08	772.26	772.26
				$ 6,119.89				
			PROBABLE NET COST TO OPERATORS	$ 3,030.84	$ 1,326.00	$ 189.42	$ 757.71	$ 757.71

$$* \frac{\$\ 738.48}{\$\ 2,736.14} = .269898$$

JOSEY - ROPER - MARMIK - AMUREX
SCHEDULE OF ACTUAL COSTS FOR CODE ACCOUNTS II TO VII
TO ARRIVE AT OPERATORS NON-REIMBURSEABLE COSTS

MONTH OF JUNE, 1956

		ACTUAL COST AMOUNT	
II-B	Supervision Fee	$ 1,500.00	
II-C	Technical Services	116.25	
III-C	Pipe	387.19	
IV-A	Rental	500.00	
VII-E	Accounting Services	100.00	
VII-F	Stenographic Services	4.00	
VII-G	Stationery and Postage	27.40	
VII-I	Supervisor's Transportation Expense	12.80	
VII-J	Core Boxes Expense	57.50	
VII-L	Telephone and Telegraph	31.00	
	Total Amount of Actual Cost Incurred for Code Accounts II to VII		$ 2,736.14

Applied Fixed Unit Cost
1,086 Feet @ $0.68 per foot $ 738.48

Expected Applied Fixed Unit Cost from DMMA (75% of $738.48) 553.86

Operator's Remaining Non-Reimburseable Costs * $ 2,182.28

* See Page 2 - Column 4

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

Administrative Audit Difference Statement

[illegible]
[illegible]
[illegible]
[illegible]

Date: [illegible]
Payee's
Reference:

Gentlemen:

FINAL DISTRIBUTION
MADE SEP 7 1956

DMEA-3786

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

Amount Claimed $ [illegible]

Difference $ [illegible]

Amount Approved $

The reason for the difference was due to:

Deductions

(1) [illegible]

[illegible] feet non-core drilling in hole [illegible] at the unit cost of [illegible] per ft. [illegible]

(Drilling logs indicate only [illegible] ft. core drilled whereas [illegible] ft. was claimed on [illegible])

(2) [illegible]

[illegible] ft. @ [illegible] per ft. [illegible]

[illegible]

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

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

224 New Customhouse
Denver 2, Colorado

August 31, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3786 (Uranium) Contract Idm-E907, Jack S. Josey and Frank C. Roper, partners; Marmik Oil Company; and Amurex Oil Company - a joint venture (Big Bear claim group) Fremont County, Colorado - Operator's Monthly Progress Report for the month of May, 1956

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.

It is deemed 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 as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations, except for the following deductions.

Disallowances

1) Non-core drilling

Disallow one foot of non-core drilling in hole No. 38 at the invoice cost of $1.75 per foot- - - -$ 1.75
(The Supervising Geologist's log and the radiometric log for hole No. 38 indicate that only 84 feet was drilled. The cost of 85 feet of drilling in this hole was reported by the Operator on Forms MF-104 and MF-104A.)

2) Incidental allowance

Disallow the incidental allowance for one foot of drilling at $0.68 per foot- - - - - - - - - 0.68
Total amount to be disallowed $ 2.43

Reconciliation with Amount Reported by the Operator on Form MF-104 for May, 1956

Total amount reported on Form MF-104 for May, 1956- - -	$2,816.81
Amount to be disallowed- - - - - - - - - - - - - - - - - - - -	2.43
	$2,814.38

Government participation at 75 percent- - - - - - - - - - - - $2,110.78

Remarks

Date of Report- - - - - - - - - - - - - - - - - July 16, 1956
Date Received in Field Office- - - - - - August 17, 1956
Date Received in Region Office- - - - - August 24, 1956
Report was returned to Operator for correction of documentation

W. M. Traver

Enclosures

JDC:jy
cc: MF-104 File E907
Sec. Op. Comm. (2)
Shaw (2)
Townsend w/copy engr's report
Chron.

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
August 23, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John P. Shaw
Supervising Mining Engineer

From: W. D. McMillan

Subject: DMEA Docket 3766 (Uranium) Contract Lds-2907, Jack S. Josey and Frank C. Roper, Big Hole, Big Bear claim group, Fremont County, Colorado -- Programs report for May, 1956

Progress was checked on June 7, 1956, accompanied by Jack Q. Frizzell, geologist project supervisor for the applicant. The pertinent data from the operator's graphic geologic logs and Marine Exploration Company's Gamma Ray logs of the seven holes completed in May 1956 are given below:

Hole No.	Location	Non-core feet	Core feet	Total feet	Remarks
1	West Center Cactus	20	68	88	
4	North " "	62	-	62	
6	Center Big Bear #6	30	40	70	
34	" " Hole #2	20	130	150	
36	North Center Big Hole #1	120	-	120	
38	Central Cactus	84	-	84	
39	East Center Cactus	118	7	125	
		454	237	691	

Approved costs for May, 1956 are for 454 feet of non-core drilling at $1.75 a foot, or $794.50; 237 feet of core drilling at $2.50 a foot, or $592.50; 77 hours of bulldozing at $12.00 an hour and 3 hours trucking charge at $10.00 an hour, or a total of $954.00; and 691 feet for incidentals at $0.68 a foot, or $469.88; one chemical analysis at $3.50, or $3.50; a grand total of $2814.38.

It is recommended that 75 percent of the approved costs, or $2110.78 be approved for payment.

The difference between the approved total costs and the total costs claimed by the applicant of $2.43 is due to 1 foot less of non-core drilling and 1 foot less for incidentals, in accordance with the supervising geologist's logs.

The narrative report is adequate, with maps, geologic, and Gamma Ray logs, and receipts for payments.

W. D. McMillan
Mining Engineer

WDM/mw
cc: 6
I&m-3907
Chron

August 16, 1956

Mr. John F. Shaw,
U. S. Bureau of Mines,
Room 137, Building 20,
Denver Federal Center,
Denver 2, Colorado

RE: FORM 104 & FORM 104A - DOCKET DMEA 3786 (Uranium)
Contract Idm -E907 - STAGE 1 COST

Dear Sir:

Enclosed are five (5) copies of each of the above-numbered Forms. When we first filed the Forms for the month of May Expenses on July 2, 1956, (received in your office July 5, 1956) they were returned to us because of the discrepancy existing between the amount of footage drilled and cored as reported by Mr. Jack Q. Frizzell in his monthly reports to your office and that amount as was billed to the operators by Marine Exploration Company.

We have corrected Forms 104 and Forms 104A to reflect amounts arising from this adjustment. Also corrected are supporting schedules.

Your attention is directed to the fact that under Category I, entitled Independent Contracts we were to be allowed (if Work-In-Progress was satisfactory as per Contract requirements with DMEA) a 75 percent Expense Contribution from DMEA. We have attached in support of Category I certified true copies of Invoices applicable to said Category.

Actual Expenses incurred falling under Categories II to VII were, as reflected by my schedule attached (See page 3 of Accounting Schedules), $2,548.25. I have certified this schedule as a true copy as reflected by Vouchers and Checks issued in payment of billing information attached to our said Vouchers. Also attached are certified true copies of some of the Invoices pertaining to Categories II to VII (under Contract Idm E 907, Categories II to VII superceded by "Fixed Unit Cost"). According to our interpretation of Instructions on the back of Form 104, it is not a requirement to attach copies of Invoices pertaining to FIXED UNIT COSTS as this falls under fixed price contract. Please reply as to the correctness of this matter.

If this does not meet with your approval for payment under Fixed Unit Cost, please advise immediately if you have to have copies of all Invoices and Billing information.

If any part of the information furnished for this report is not in conformity with your requirements, please advise steps necessary to correct same in order for us to receive DMEA Expense Contribution under our DMEA Contract Idm-E 907.

Very truly yours,

Robert H. Park

ROBT. H. PARK, AGENT
for
JACK S. JOSEY, OPERATOR

Encls.

COPY

JOSEY - ROPER - HARRIK - AMUREX
DOCKET NO. DMEA 3786
CONTRACT NO. Idm-E 907

INDEX TO SCHEDULES

SCHEDULE	PAGE NO.
FORM MF-104	
FORM MF-104A	
MONTH OF MAY URANIUM EXPLORATION EXPENSES AND JOINT OPERATIONS BILLINGS TO OPERATORS AS PER ACCOUNTING STATEMENTS	1
EXPECTED BUDGETARY EXPENSE CONTRIBUTION FROM DMEA	1
SCHEDULE OF OPERATORS COSTS IF EXPECTED EXPENSE CONTRIBUTION FROM DMEA IS REALIZED	2
CATEGORY II TO VII (SUPERCEDED BY FIXED UNIT COSTS) ACTUAL COSTS INCURRED	3
CERTIFIED TRUE COPIES OF VARIOUS INVOICES IN SUPPORT OF CATEGORY I AND CATEGORIES II TO VII	
ADJUSTMENT OF ACCOUNTS AFFECTED BY MARINE EXPLORATION COMPANY OVERCHARGE ON DRILLING - MAY BILLING	4

CORRECTED CORRECTED CORRECTED

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May 6, 195 Docket No. DMEA 3786 Contract No. Idm-3 907

Operator's Name Jack S. Josey & Frank C. Roper, Partners; Farmik Oil Co. & Amurex Oil Co. -Joint Venture Minerals Uranium

Address 1706-7 C & I Life Bldg., Houston 2, Texas 75

Contract Amount, $ 2,816.81 Government Participation: ____ % Amount, $ 2,112.62

CORRECTED

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Contracts:						
Short Form (Core) 237'	592.50	-0-	592.50			
Drilling 80 Hours	954.00	-0-	954.00			
Bulldozing						
Crosscutting						
Drifting						
Drilling (Non-Core) 455'	796.25	-0-	796.25			
(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 (1)	3.50	-0-	3.50			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Fixed Unit Cost: 692' @ $0.68 Foot: See	470.56	-0-	470.56			
(8) Contingencies (Actual Exp. Incurred)						
TOTALS	2,816.81	-0-	2,816.81			
75% of Above	2,112.62	-0-	2,112.62			
TOTALS				2814.38	—	2,814.38

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

Date July 16, 1956 *Payee Jack S. Josey

Per [signature] Title Agent

*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:

$2110.78

Signature [signature]
(Authorized Certifying Officer)

Date 9/6/56 Voucher DMA 59-28

(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. Jdm-E 907 in accordance with the terms of the contract.

Signature Wm McMillan / #2110.78 / WXRS Title Min. Engr. Date 8/21/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE

Signature W. M. Graves Title Executive Officer Date AUG 31 1956

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

RECEIVED
SEP 10 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1956 Docket No. DMEA 2786 Contract No. Idm-3 907
Operator's Name Jack O. Josey & Frank C. Hopor, Partners; Marmik Oil Co. & Amarex Oil Co., Joint Venture
Minerals Uranium
Address 1706-7 C & I Life Building, Houston 2, Texas

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 Bulldozer	Hours	954.00	80	954.00	80	954.00	216	2,700.00
Shafts								
Winzes								
Drilling: Core	Feet	592.50	237	592.50	237	592.50	8,095	21,047.00
Churn								
Non-Core Ranger	Feet	796.25	455	796.25	455	796.25	3,965	6,938.75
Stripping								
Trenching								
Test Pits								
Roads and Trails								
SAMPLING & ANALYSIS	Each	3.50	1	3.50	1	3.50	200	700.00
TOTAL DISTRIBUTED COSTS		2,346.25		2,346.25				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
FIXED UNIT COST		470.56		470.56				8,200.00
TOTAL COSTS		2,816.81		2,816.81				39,586.55

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 16, 1956 Operator Jack O. Josey

Per [signature] Title Agent

REMARKS:

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

(Instructions on reverse)

(For Government use only) [signature]

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

JOSEY - ROPER - MARMIK - AMUREX
SCHEDULE OF ACTUAL COSTS FOR CODE AACOUNTS II TO VII
TO ARRIVE AT OPERATORS NON-REIMBURSEABLE COSTS

		ACTUAL COST AMOUNT
II-B	Supervision Fee	$ 1,500.00
III-B	Explosives	8.00
III-C	Pipe	105.00
IV-A	Rental	505.00
VII-E	Accounting Services	100.00
VII-F	Stenographic Services	23.00
VII-G	Stationery, Supplies and Postage	50.59
VII-H	Prospecting and Shooting Outcrops	16.50
VII-I	Supervisor's Transportation Expense	39.69
VII-J	Core Boxes Expense	76.61
VII-K	Miscellaneous Business Expense	15.64
VII-L	Telephone and Telegraph	22.55
VII-M	Drilling Mud	19.75
VII-N	Freight-In	65.92

Total Amount of Actual Cost Incurred for Code Accounts II to VII $ 2,548.25

Applied Fixed Unit Cost
692 feet @ $0.68 per foot $ 470.56

Expected Applied Fixed Unit Cost from DMEA (75% of $470.56) 352.92

Operators Remaining Non-Reimburseable Costs* $ 2,195.33

* See Page 2 - Column 4

Certified True Copy of Actual Expenses
Incurred under Category II to VII

Robert H. Tait

JOSEY - ROPER - MARMIK - AMUREX
JOINT VENTURE URANIUM EXPLORATION EXPENSES
MONTH OF MAY, 1956

DOCKET NO. DMEA - 3736
CONTRACT NO. Idm-E 907
SUPPORTING SCHEDULE FILED WITH DMEA

		JOINT OPERATORS BILLING — YOUR EXPENSES FOR THE MONTH OF MAY, 1956 - BEFORE DMEA EXPENSE CONTRIBUTION			
		JACK S. JOSEY .4375	FRANK C. ROPER .0625	MARMIK OIL COMPANY .25	AMUREX OIL COMPANY .25
CODE ACCOUNTS I & VII - B	100% COST INCURRED				
Non-Core Drilling	$ 796.25	$ 348.36	$ 49.77	$ 199.06	$ 199.06
Core Drilling	592.50	259.22	37.03	148.13	148.12
Bulldozer	954.00	417.37	59.63	238.50	238.50
Chemical Sampling and Analysis	7.00	3.06	.44	1.75	1.75
Sub-Total	$ 2,349.75	$ 1,028.01	$ 146.87	$ 587.44	$ 587.43
CODE ACCOUNTS II TO VII					
Supervision Fee	$ 1,500.00	$ 656.25	$ 93.75	$ 375.00	$ 375.00
Explosives	8.00	3.50	.50	2.00	2.00
Pipe	105.00	45.94	6.56	26.25	26.25
Rental	505.00	220.94	31.56	126.25	126.25
Accounting Services	100.00	43.75	6.25	25.00	25.00
Stenographic Services	23.00	10.06	1.44	5.75	5.75
Stationery, Supplies and Postage	50.59	22.13	3.16	12.65	12.65
Prospecting and Shooting Outcrops	16.50	7.22	1.03	4.12	4.13
Supervisor's Transportation Expense	39.69	17.36	2.48	9.92	9.93
Core Boxes Expense	76.61	33.52	4.79	19.15	19.15
Miscellaneous Business Expense	15.64	6.84	.98	3.91	3.91
Telephone and Telegraph	22.55	9.87	1.41	5.64	5.63
Drilling Mud	19.75	8.64	1.23	4.94	4.94
Freight-In	65.92	28.84	4.12	16.48	16.48
Sub-Total: Code II to VII	$ 2,548.25	$ 1,114.86	$ 159.26	$ 637.06	$ 637.07
GRAND TOTAL	$ 4,898.00	CORRECTED BILLING (1) $ 2,142.87	$ 306.13	$ 1,224.50	$ 1,224.50

EXPECTED BUDGETARY DMEA EXPENSE CONTRIBUTION		CONTRACT AMOUNT (ALLOWABLE COSTS)	DMEA PORTION 75 %
Non-Core Drilling	455 Feet @ $ 1.75 Foot or	$ 796.25	$ 597.19
Core Drilling	237 Feet @ $ 2.50 Foot or	592.50	444.38
Bulldozer	77 Hours @ $12.00 an hour or	924.00	693.00
Bulldozer	3 Hours @ $10.00 an hour or	30.00	22.50
Chemical Sampling & Analy.	1 Chem. Samp. Analy. @ $7.00	3.50	2.63
	Less: Unallowed Cost $3.50		
APPLIED FIXED UNIT COST			
Actual Footage Drilled for Month of May was: 692 feet @ $0.68 per foot or		470.56	352.92
		$ 2,816.81	* $ 2,112.62

* EXPECTED EXPENSE CONTRIBUTION FROM DMEA
(1) IF MARINE ISSUES A CREDIT MEMO O/R
proof - Page 4

JOSEY - ROPER - MARNIK - AMUREX
JOINT VENTURE URANIUM EXPLORATION PROJECT
COMPUTATION OF EACH OPERATOR'S PORTION OF DMEA EXPECTED EXPENSE CONTRIBUTION FOR THE MONTH OF MAY, 1956

CODE ACCOUNT I & VII-B	100 % COST INCURRED		LESS: D.M.E.A. PORTION 75%	OPERATORS REMAINING PORTION OF COSTS	IF DMEA APPROVES CHARGES FOR MAY AND MAKES A REFUND THERE WOULD BE ACTUAL CHARGES TO EACH OPERATOR'S ACCOUNTS: JACK S. JOSEY .4375	FRANK C. ROPER .0625	MARNIK OIL COMPANY .25	AMUREX OIL COMPANY .25
Non-Core Drilling	$ 796.25		$ 597.19	$ 199.06	$ 87.09	$ 12.44	$ 49.77	$ 49.76
Core Drilling	592.50		444.38	148.12	64.80	9.26	37.03	37.03
Bulldozer	924.00		693.00	231.00	101.06	14.44	57.75	57.75
Bulldozer	30.00		22.50	7.50	3.28	.47	1.87	1.88
Allowed Budget Cost of Chem. Samp. & Analysis	3.50		2.63	.87	.39	.05	.22	.21
Unallowed Cost of Chem. Samp. & Analysis	3.50		See Contract	3.50	1.53	.22	.87	.88
Sub-Total	$ 2,349.75		$ 1,759.70	$ 590.05	$ 258.15	$ 36.88	$ 147.51	$ 147.51
CODE ACCOUNTS II TO VII (FALLING UNDER FIXED UNIT COSTS)		* APPLIED DECIMAL TO DERIVE @ DMEA PORTION	LESS: D.A.E.A. PORTION 75% OF APPLIED	OPERATOR'S REMAINING NON-REIMBURSEABLE COSTS (2)				
ACTUAL COSTS INCURRED								
Supervision Fee	$ 1,500.00	$ 276.99	$ 207.74	$ 1,292.26	$ 565.36	$ 80.77	$ 323.06	$ 323.07
Explosives	8.00	1.47	1.10	6.90	3.02	.43	1.73	1.72
Pipe	105.00	19.39	14.54	90.46	39.58	5.65	22.61	22.62
Rental	505.00	93.25	69.93	435.07	190.34	27.19	108.77	108.77
Accounting Services	100.00	18.47	13.85	86.15	37.70	5.38	21.54	21.53
Stenographic Services	23.00	4.25	3.19	19.81	8.67	1.24	4.95	4.95
Stationery, Supplies and Postage	50.59	9.34	7.01	43.58	19.07	2.72	10.89	10.90
Prospecting and Shooting Outcrops	16.50	3.05	2.29	14.21	6.22	.89	3.55	3.55
Supervisor's Transportation Expense	39.69	7.33	5.50	34.19	14.96	2.14	8.55	8.54
Core Boxes Expense	76.61	14.15	10.61	66.00	28.87	4.13	16.50	16.50
Miscellaneous Business Expense	15.64	2.89	2.17	13.47	5.89	.84	3.37	3.37
Telephone and Telegraph	22.55	4.16	3.12	19.43	8.50	1.21	4.86	4.86
Drilling Mud	19.75	3.65	2.74	17.01	7.44	1.07	4.25	4.25
Freight-In	65.92	12.17	9.13	56.79	24.84	3.55	14.20	14.20
		$ 470.56						
Sub-Total	$ 2,548.25		$ 352.92	$ 2,195.33 (2)	$ 960.46	$ 137.21	$ 548.83	$ 548.83
GRAND TOTAL	$ 4,898.00		$ 2,112.62	$ 2,785.38	$ 1,218.61	$ 174.09	$ 696.34	$ 696.34
CORRECTED BILLING					$ 2,142.87	$ 306.13	$ 1,224.50	$ 1,224.50
EXPECTED EXPENSE CONTRIBUTION FROM DMEA				$ 2,112.62	(1) $ 924.27	(1) $ 132.04	(1) $ 528.16	(1) $ 528.15
				$ 4,898.00				
PROBABLE NET COST TO OPERATORS				$2,785.38	$ 1,218.60	$ 174.09	$ 696.34	$ 696.35

$* \frac{\$470.56}{\$2,548.25} = .18466$

(1) These Amounts (IF EXPECTED EXPENSE CONTRIBUTION FROM DMEA / $2,112.62/ IS REALIZED) Will Be Refunded or Credited to Each Operator's Account.

(2) See Page 3.

JOSEY - ROPER - MARMIK - AMUREX

JOINT VENTURE URANIUM EXPLORATION PROJECT
COMPUTATION OF EACH OPERATOR'S PORTION OF
CREDIT ARISING FROM OVERCHARGE ON DRILLING
BY MARINE EXPLORATION COMPANY - MAY BILLING

	TOTAL AMOUNT	JACK S. JOSEY .4375	FRANK C. ROPER .0625	MARMIK OIL COMPANY .25	AMUREX OIL COMPANY .25
Amount Previously Billed - May Billing	$ 5,781.75	$ 2,529.51	$ 361.36	$ 1,445.44	$ 1,445.44
Corrected May Billing	4,898.00	2,142.87	306.13	1,224.50	1,224.50
Amount of Credit Due	$ 883.75	$ 386.64	$ 55.23	$ 220.94	$ 220.94

ACCOUNTS AFFECTED

CREDIT

Non-Core Drilling 615 Feet @ $1.75 Ft.

DEBIT:

Core Drilling 77 Feet @ $2.50 Ft.	$ 192.50	84.22	12.04	48.12	48.12
Net Amount of Credit Due					

MARINE EXPLORATION COMPANY

5115 WESTHEIMER ROAD
HOUSTON, TEXAS

RECEIVED
SEP 10 1956

A. D. HAMIL, President
G. M. MACH, Jr., Vice President
O. B. MYERS, Vice President
S. M. PIZZA, Vice President
R. E. BUTLER, Vice President
JOE NORMAN, Jr., Treasurer

May 31, 1956

INVOICE NO. : J&R-CD2-1

TO : JACK S. JOSEY
1706-7 C&I Life Building
Houston 2, Texas

Attention: Mr. Robert H. Parks

FOR : Services rendered April 30, 1956 through May 31, 1956. Marine Exploration Company Contract Drill No. 2, Canon City, Colorado.

CHARGES	455	~~1070~~ feet drilled @ $1.75/foot	796.25	$ ~~1,872.50~~	
	237	~~160~~ feet cored @ $2.50/foot	592.50	~~400.00~~	
					$ 1,388.75 ~~2,272.50~~
		Esterline-Angus A. W. Graphic Recorder for month of May, 1956			500.00
		Attached Receipts:			
		S. W. Pressey Invoice dated 5-3-56			135.94
		Bill of Lading dated 5-4-56			65.92
					$ ~~2,974.36~~ 2,090.61

Payment of the above invoice should be made to Marine Exploration Company, 5115 Westheimer Rd., Houston 19, Texas.

APPROVED:

Marine Exploration Company

APPROVED:

CERTIFIED TRUE COPY

Robert H. Park - Agent

DMEA: See credit memo attached
also page 4

E-204A/4872

MARINE EXPLORATION COMPANY

5115 WESTHEIMER ROAD
HOUSTON 19, TEXAS

RECEIVED
SEP 10 1956

A. B. HAMIL, PRESIDENT
G. M. MACE JR., VICE PRESIDENT
G. L. BARKSDALE, VICE PRESIDENT
C. E. MYERS, VICE PRESIDENT
S. M. PENA, VICE PRESIDENT
R. E. BUTLER, VICE PRESIDENT
JOE NORMAN, JR., TREASURER

June 30, 1956

CREDIT MEMO : [illegible]

TO : [redacted].
1706-7 C & I Life Building
Houston 2, Texas

Attention: Mr. Robert L. Lewis

FOR : Credit on our invoice J & K-[illegible]
Dated May 31, 1956
(Charges were through May 31, 1956 --
Should have been May 30, 1956)

CREDIT :

Drilling:			
Charged	1077'	@ $1.75/ft.	1,872.50
Should have charged	455'	@ $1.75/ft.	796.25
Credit	622'	@ $1.75/ft.	(1,076.25)
Coring:			
Charged	160'	@ $2.50/ft.	400.00
Should have charged	237'	@ $2.50/ft.	592.50
Net Charge	77	@ $2.50/ft.	192.50
Credit			(883.75)

APPROVED:

Marine Exploration Company

By [illegible]

APPROVED:

[redacted].

By Robert A. Park

COPY

DAILY LOG

DATE	HOLE NO.	FEET CORED	FEET DRILLED
May 5 to 8	1	60	20
9 to 11	39	7	118
13 to 15	38	0	85
17 to 18	36	0	120
19	4	0	62
20 to 24	34	130	20
25 to 30	6	40	30

Total Feet Cored 237 Feet

Total Feet Drilled 455 Feet

Total Footage 692 Feet

VIRGIL BEAVER'S CONSTRUCTION COMPANY

Dozer Contract
Josey-Roper Project
Big Hole Area, Fremont County, Colorado

Docket DMEA 3766 (Uranium)
Contract Idm-2907

Date	Rate	Hours	Work Performed
5-4-56	$10.00	3	Trucking Charge, hauling D-7 to site.
	12.00	2½	Towing drill rig and jeep across river.
5-5-56	12.00	7½	Towing water truck, jeep across river, building access roads, levelling drill site, C. H. #1.
5-6-56	12.00	8½	Building roads to C. H. nos. 38 & 39/
5-7-56	12.00	8½	same
5-8-56	12.00	2	Levelling drill site, C. H. #39.
5-9-56	12.00	1	Levelling drill site, C. H. #38.
5-10-56	12.00	9	Building roads and levelling drill sites, C. H. nos. 4 & 36.
5-11-56	12.00	7½	Building roads and levelling drill sites, C. H. nos. 6 & 34.
5-13-56	12.00	6½	Building roads and levelling drill sites, C. H. nos 9 & 22.
5-15-56	12.00	6	Building roads and levelling drill sites, C. H. nos. 12, 15, 18, & 19.
5-16-56	12.00	2½	Building road to C. H. #25.
5-17-56	12.00	8½	Building roads and levelling drill sites, C. H. nos. 24, 25, & 28.
5-18-56	12.00	7	Building roads and levelling drill sites, C. H. #31.

77 hrs. @ $12.00 $924.00
3 hrs. @ 10.00 30.00
$954.00 Total

L. J. Beavers, Operator

Accepted:
May 28, 1956

Virgil L. Beavers, Contractor

[redacted]

TELEPHONE MAIN 3-1852
2114 CURTIS STREET
DENVER 5, COLORADO

RECEIVED
SEP 10 1956

July 3, 1956.

Lenoir M. Josey, In.,
1706-7 C. & I. Life Building,
Houston, 2, Texas.

Attention: Robt. H. Park.

Gentlemen

Thank you for your remittance covering our Folio 6207 in payment for on sample "Core Hole #39-A Josey-Roper Project", submitted by Mr. Jack Q. Frizzell, Geol. from Canon City, Colorado. This represented an assay for uranium and vanadium as reported, on one (1) sample.

I trust this answers your query.

Very truly yours,

CHARLES O. PARKER & CO.,

By Charles O. Parker
Manager.

Pass Back to Vincent

CP-a

OK
U-3 reported on DMEA as 2.50 each stating the
DMEA allowance could be each @ $3.50.

2114 CURTIS STREET

TELEPHONE MAin 3-1032

CHEMISTS ○ ASSAYERS ○ ENGINEERS

DENVER 5, COLORADO

RECEIVED

Folio 6807 SEP 10 1956

Date June 2, 1956.

Jack Frizzel
Queen's Rest Court
Highway 115
Canon City, Colorado.

Bill: Jossy Rope Account
Big Hole Area Project
1706 C & Life Bldg.
Houston, Texas.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	URANIUM OXIDE U_3O_8	VANADIUM PENTOXIDE V_2O_5	LIME $CaCO_3$	RADIOMETRIC EQUIVALENT eU	THORIUM OXIDE ThO_2	TOTAL RARE EARTHS	COMBINED COLUMBIUM TANTALUM OXIDES
	0.070%	Trace		0.070			

CERTIFIED TRUE COPY

Robert H. Park-Agent

PLEASE PAY FROM THIS INVOICE AS NO OTHER STATEMENT WILL BE MAILED. THANK YOU

Charge $ 7.00

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

E-203-A/4971

RECEIVED
SEP 10 1956

Josey-Roper Core Drilling Project
Big Hole Area, Fremont Co., Colo.

Expense account of Jack Q. Frizzell, Project Supervisor:

May 12, 1956	Truck rental	$5.00
May 14, 1956	Lath	1.68
June 2, 1956	Oil and filter for field jeep	4.89
June 2, 1956	Blueprinting for progress report	26.48
June 3, 1956	Stenographic work for progress report	20.00
	Mileage charge for personal car, 4 trips to Pueblo, Colo. 320 miles @.08/mile	25.60
		$83.65

Jack Q. Frizzell
Jack Q. Frizzell, Geol.

CERTIFIED TRUE COPY
ROBERT H. PARK-AGENT

E-199-A/4967 Copies of invoices in support of above items attached to our voucher

Posey-Roper Core Drilling Project
Big Hole Area, Fremont Co., Colo.

Expenses May 4 - May 12, 1956:

May 4, 1956	Postage and proof of labor supplies	$3.24
	Recording fees-proof of labor	4.45
May 5, 1956	10 Core boxes-Carl's Const. Co.	56.67
May 11, 1956	Stenographic Service	3.00
May 12, 1956	Mileage costs- hauling casing from Pueblo to project area. 120 mi.@ $.08	9.20
		$76.56

Max O. Jernigan

Jack Q. Frizzell

Robert H. Park

CERTIFIED TRUE COPY
Robert H. Park
ROBERT H. PARK-AGENT

E-198-A/4966 Copies of invoices in support of above items attached to our voucher

Josey-Roper Core Drilling Project
Big Hole Area, Fremont Co., Colo.

Contract labor and supplies due:

W. C. Latham
Cotopaxi, Colorado

May 14, 1956	Hauling supplies to drill area	2 hrs.	$3.00
May 15, 1956	Prospecting and shooting outcrop	4 hrs.	6.00
May 16, 1956	Same	7 hrs.	10.50
	Furnishing fuse and powder		5.00
			$24.50

Approved Jack Q. Krizzell
Jack Q. Krizzell, Geol.
Project Supervisor

Chg: Prospecting & Shooting Outcrops 16.50
Hauling Sup. - Supplies 3.00
Fuse & Powder Sup. 5.00
24.50

CERTIFIED TRUE COPY
ROBERT H. PARK-AGENT

014969

420 Main Street

Canon City, Colorado

VANCE'S

"Everything for the Office"

OFFICE SUPPLIES
OFFICE MACHINES

CERTIFIED TRUE COPY
ROBERT H. PARK-AGENT

BOOKS
STATIONERY

Houston, Texas

Customer's Order No. _____ Date June 2 1956

M Jasay Corporation

Address 1704 Cotton Exchange Bldg

Sold by	Cash	C.O.D.	Charge	On Acct.	Mdse. Ret.	Pd. Out

QUAN.	DESCRIPTION	PRICE	AMOUNT
12	Pressboard	65	7 80
24	7x10 Env.	40	9 60
5	Env 12½x15	7	35
			17 75
	Jasay-Corp Cor Partner		
	Payment		
E-200-A/4968			9 13
	Cards & Envelopes for Reports		

ALL claims and returned goods MUST be accompanied by this bill.

No. 01738 Rec'd by _____

UARCO INC. OAKLAND

Stat., Supplies, & Postage

STATEMENT

CANON CITY, COLO. 5-12-1006

M. Mr ~~[illegible]~~ Frizzell
Lacey Roper corl Drillers Pons.

CARL'S CONSTRUCTION COMPANY

"Builders of Fine Homes"

CUSTOM MADE CABINETS AND FIXTURES
NEW HOMES BUILT — OLD ONES REMODELLED

1925 E. RIVER STREET PHONE 1450

5 Core Boxes
Labor
Trucking 5.00
13.26
Oil Robert H Park 18.26
This bill is in Colorado C.C.J.

Paid in full

CERTIFIED TRUE COPY

Robert H Park
ROBERT H. PARK-AGENT

~~Paid by Company check~~

~~Please refund Check to Dep~~
~~Expl. C.~~

No. [illegible]

E-36A/4096

8 PERCENT INTEREST CHARGED ON ALL ACCOUNTS PAST DUE

Rio Grande Blue Print Co.

BLUE PRINTS - WHITE PRINTS - PHOTOCOPIES
ARCHITECT and ENGINEER SUPPLIES

311 Broadway S. E. Phone 2-8636

ALBUQUERQUE, N. MEX.

Customer's Order No. _____ Date 5-24 1954

M Clark & Day

Address

Sold by	Cash	C.O.D.	Charge	On Acct.	Mdse.Ret.	Pd. Out	
			✓				

QUAN.	DESCRIPTION	PRICE	AMOUNT
12	Blueline Prints.		2 61
24	Sepia Prints.		9 27
			11 40
	Tax		0 34
			11 74
	Josey-Roper Project.		
	Loc Strips		

ALL claims and returned goods MUST be accompanied by this bill.

No. 00360 Rec'd by _____

BARCO INC. - OAKLAND

PROGRESS REPORT

Josey-Roper Core Drilling Project
Big Hole Area, Fremont County, Colorado

Month Ending May 31, 1956

Docket DMEA 3786 (Uranium)
Contract Idm-E907

Location: The Josey-Roper Core Drilling Project is located in Fremont County, Colorado in sections 22 and 27, T18S, R75W. It is being drilled on a group of thirteen lode mining claims owned by Jack S. Josey, Frank C. Roper, et al of Houston, Texas. The claims are situated in a small intermontane basin, known as the Big Hole or Big Devil's Hole, which is surrounded by mountains of granitic and volcanic rocks. The project is 20 miles west of Canon City, Colorado, and lies 1½ miles north of the Arkansas River, U. S. Highway 50, and the Denver and Rio Grande Railroad. Echo Canyon, through which meanders Echo Creek, traverses the west side of the claims and forms a natural access-way into the area north of the river.

Geology: The Big Hole is a typical intermontane valley in which late Tertiary sedimentaries were deposited in a closed basin under fluviatile and lacustrine conditions, with the nearby mountains affording local sedimentary source materials. Regional dip of the sedimentary deposits is to the north while topographic slope of the present land surface is to the south, thus giving evidence that the northern part of the basin

has undergone relatively recent uplift, reversing stream drainage and causing breaching of the south end of the basin with the Arkansas River Canyon. Recent valley fill, composed of boulders, gravel, and alluvium forms a cover for the truncated Tertiary sediments.

The sedimentary deposits consist of arkosic and quartzitic sandstones, fragmental arkosics, boulder and pebble conglomerates, mudstones, shales, silty sandstones, and combinations of each. Repeated uplift and subsequent degradation of the surrounding highland area is evidenced by the sequence of massive, imbricate boulder and pebble conglomerates of torrential stream flow interbedded with the fine-grained, silty sandstones, mudstones, shales, and carbon trash concentrations deposited during relatively quiescent periods of lake and swamp conditions.

Uranium mineralization may be observed in bedded deposits at several occurences on the Jesey-Roper claims. The deposits are usually found in the thin, dark-grey, brown, and maroon, lenticular mudstone beds deposited at localities of ancient stream cross-bedding and in scour-and-fill structures. Laminated and disseminated carbon trash generally is associated with the mineralized deposits. Mineralization also occurs in arkosic sandstones which are in contact with mudstone lentils, or which contain thin, silty, carbonaceous laminae.

<u>Project History</u>: Drilling operations on the Jesey-Roper project commenced on May 5, 1956. The period from May 1 through May 4, 1956 was utilized in obtaining and repairing drilling equipment, obtaining

a dozer contract, and moving equipment to the project area. Schedule of the core holes drilled to May 31, 1956 is as follows:

Hole No.	Date Commenced	Date Completed	Total Depth	Footage Non-core	Footage Cored	Date Logged
1	5-5-56	5-8-56	80'	20'	60'	5-26-56
39	5-9-56	5-11-56	125'	118'	7'	5-25-56
38	5-13-56	5-15-56	85'	85'	0	5-26-56
36	5-17-56	5-18-56	120'	120'	0	5-25-56
4	5-19-56	5-18-56	62'	62'	0	5-25-56
34	5-20-56	5-25-56	150'	20'	130'	5-25-56
6	5-27-56	5-29-56	70'	30'	40'	5-29-56

(Note: Holes 1, 39, 38, 36, and 4 were re-logged after the logging equipment was modified by Uranium Instruments Co., Grand Junction, Colorado.)

Access Roads and Drill Site Work: The contract for the dozer work required on access roads and drill site levelling for Stage 1 was awarded to Mr. Virgil L. Beavers, Florence, Colorado. Equipment furnished by Beavers consisted of one D-7 Caterpillar Tractor and a Universal Willys Jeep for the operator's transportation. A total of 77 hours dozer work was required to complete State 1, representing approximately 31% of the 216 hours allowed by DMEA contract for the three stages of work.

Drilling Conditions: All of the core holes drilled to May 31, 1956 encountered massive boulder conglomerates ranging in depth from surface valley fill to the total depth of 150' in C. H. #34. Hawthorne hard-face drilling bits were used to drill the surface formations in holes 1 and 39, but were found to wear out after drilling a few feet of the granite boulder conglomerates. Varel, Grumer, and Williams 4¾" tri-cone rock bits were used successfully to penetrate the conglomerates.

It was found necessary to use high viscosity drilling mud to circulate the large boulder fragments and pebbles from the hole below depths of 30'.

Dameo and Christensen double tube core barrels are being used for coring. An attempt was made to use saw-tooth core bits faced with carbide inserts on the earlier holes, but was largely unsuccessful due to the extreme hardness of the granite boulders encountered. Diamond core bits were used successfully to core the majority of the holes.

The percentage of core recovery on all of the holes, with the exception of Number 6, was low due to the fragmental nature of the material cored. Soft mudstone, sand, or shale encountered after coring granite boulders or gravel conglomerate was incapable of forcing the hard rock up into the barrel and subsequently was washed out by the drilling fluid. Core recovery percentage will increase on the holes located in the fences to the north since we will be drilling in more uniformly bedded sandstones and shales. (Core hole #9, being drilled at the present time but not a part of this report, has effected approximately 80% core recovery to a depth of 160'.)

<u>Project Equipment:</u> Drilling equipment consists of a Failing Model 44 Hydraulic Rig mounted on a Ford truck. The rig is rated for drilling depths ranging to 1,000'. The rig is equipped with 360' of N rod drill stem, three 2 1/8" I. D. core barrels in 2,5, and 10 foot lengths, and one 1 7/8" I. D. core barrel 10 feet in length. Drilling water is hauled in a 400 gallon tank mounted on a GMC four-wheel drive 6x6 truck.

The gamma ray logging equipment consists of a Detectron DG-9 Geiger Counter equipped with an Eberline Instrument Company deep-hole probe and 300 feet of cable coupled to an Esterline-Angus recorder. The logging equipment was remodeled by Al R. Threadgill of Uranium Instruments Company, Grand Junction after the drilling project was underway. The machine was tested and calibrated in the test chamber at the A. E. C. testing laboratory in Grand Junction before returning it to field use. The logging equipment is shock-mounted in a 1956 Universal Four-Wheel Drive Jeep.

Hand instruments for checking cuttings and cores consist of a Detectron DG7 Geiger Counter and a Detectron D290 Nucliometer.

Subsurface Discoveries: Commercial grade uranium mineralization has been encountered only in core hole #39 in which approximately 2#' of 0.2#% U3O8e was recorded by gamma ray. Core hole #39A was drilled to 25' at a location 5' east of #39, and core hole #39B was drilled to 28' at a location 10' north of #39. A core of the radioactive zone was recovered on #39B and has been sent to Denver for radiometric and chemical assay. Core holes #39A and #39B were experimental holes paid for by Josey-Roper, and are not considered a part of the DMEA contract. All information on the two experimental holes has been included in this report.

Below commercial grade uranium mineralization has been recorded in core holes #1, #39, #38, #36, and #34 at depths ranging from 19' to 86'. Correlation of the radioactive zones from hole to hole has been

difficult due to the non-uniform character of the sedimentary formations in the southern part of the project area. All holes showing significant radioactive mineralization have been cased with 2½" I. D. casing.

Conclusions and Recommendations: Drilling progress has been relatively slow due to encountering massive boulder and gravel conglomerates in the southern part of the project area, and percentage core recovery has been low due to the same conditions. Drilling and coring rate and recovery will increase as we move northward in the area.

I recommend that the AEC be requested to send a logging party to log the core holes to further check the calibration of our logging equipment.

I further recommend that, in the event approval is given for Stage II drilling program, the location of the core holes in the southwest part of the project area be studied in respect to their local geology in order to avoid drilling in granitic and feldspar dikes as were encountered in core holes #1, #4, and #6.

Respectfully submitted,

Jack Q. Frizzell

Jack Q. Frizzell, Geologist
Project Supervisor

CARL'S CABINET SHOP
CARL STRUCKEL, Owner
FURNITURE and FIXTURES BUILT TO ORDER
BUILT-IN CABINETS
Phone 1318J 303 Main St.
CANON CITY, COLORADO

NO. 2776

19

Received of Jack Frizzell

ADDRESS

Dollars

100

FOR Core Boxes

Pd. On Chgs.		Amt. Acct. $	56.67
Pd. On Cash		Payment $	
Pd. By M O		Bal. Due $	

CARL'S CABINET SHOP

By C. Struckel

Oper: Josey-Roper
Proj: Big Hole Area
C.H.: #1 | Fremont Co., Colo.
Loc: West-Center Cactus Claim
T.D.: 80' Comp. Date: 5-8-56
Core Data: Cored 20'-80'.
Recovery poor

Gamma Log Data: .04% Ue
38½-40'

Casing: Uncased
Remarks: Elev. 5540.6' G.L.

		U_3O_8 e .1	.2	.3
	10			
	20 Comm. Coring			
	30			
	dk. gry. sdy. conq 40	■		
	50			
	60			
	70			
	decomposed granite 80 granite			
	T.D. 80' 90			
	100			
	10			
	20			
	30			
	40			
	50			
	60			
	70			
	80			
	90			
	200			

Oper: Josey-Roper
Proj: Big Hole Area
C.H: #39 | Fremont Co., Colo.
Loc: East Center Cactus Claim
T.D: 125' Comp. Date: 5-11-56
Core Data: Cored 118'-125'

Gamma Log Data: Anomalous radioactivity: .2% Ue 17-19½'; .03% Ue 44-46½'; .03% Ue 78½-80½'; .06% Ue 84½-87½'
Casing: 103' 2½" I.D.
Remarks: Elev. 5565.8' G.L.
39A loc. 5' East, 25'; 39B loc. 10' North, 28'

U3O8 e
.1 .2 .3

10

dk. gry. to blk. f.g. silty s.s. Abundant carbon trash
20

30

40

Arkosic & qtz. ss. Sli. amt. dissem. carbon
50

Blk & gry. sd. & pebble conq.
60

70

Rose qtz. frags. & abund. feldspar frags. gry. arkosic ss. & conq.
80

Arkosic ss. and conq. Sli. amt. dissem. carbon
90

100

10

f.g. to m.g. ss. & arkosic ss.
comm. coring
20

T.D. 125'
30

40

50

60

70

80

90

200

Oper: Josey-Roper
Proj: Big Hole Area
C.H: #38 | Fremont Co., Colo
Loc: Central Cactus Claim
T.D: 84' Comp. Date: 5-15-56
Core Data: Drilled non-core

Gamma Log Data: Anomalous radioactivity: .07% Ue, 53½-55'

Casing: Uncased
Remarks: Elev. 5572.8' G.L.

		U_3O_8 e .1	.2	.3
	10			
	20			
	30			
	40			
	50			
	gry. f.g. arkosic ss. sli. amt. dissem. carbon. 60			
	70			
	80			
	90			
	100			
	10			
	20			
	30			
	40			
	50			
	60			
	70			
	80			
	90			
	200			

Oper: Josey - Roper
Proj: Big Hole Area
C.H. # 36 Fremont Co., Colo.
Loc: North Center Big Hole #1
T.D. 120' Comp. Date: 5-18-56
Core Data: drilled non-core

Gamma Log Data: Anomalous Radioactivity: .05 % Ue 18-20½
.03 % Ue 35-36½'

Casing: 30' 2½" I.D.
Remarks: Elev. 5385.4. Hole Caved in at 92'.

U3O8e
.1 .2 .3

10

qry ss. & conq. sli. amt. carbon
20

30

dk. qry, thin mudstone and ss.
40

Arkosic ss, pebble conq. & qry f.g. ss.
50

60

70

80

90

100

10

20 T.D. 120'

30

40

50

60

70

80

90

Oper: Josey-Roper
Proj: Big Hole Area
C.H: #4 | Fremont Co., Colo.
Loc: North Center Cactus #1 Claim
T.D: 62' Comp. Date: 5-19-56
Core Data: Drilled non-core

Gamma Log Data: No anomalous radioactivity.

Casing: Uncased
Remarks: Elev. 5636.4' G.L.

10	
20	boulder & pebble conglomerate
30	
40	Arkosic ss. & cong. dk-gry. mudstone
50	schist
60	decomposed granite
	granite
	T.D. 62'
70	
80	
90	
100	
10	
20	
30	
40	
50	
60	
70	
80	
90	
200	

Oper: Josey-Roper
Proj: Big Hole Area
C.H. #34 | Fremont Co., Colo.
Loc: Center, Big Hole #2
T.D. 150' Comp. Date 5-24-56
Core Data: Cored 20'-150'. No commercial grade ore recovered.

Gamma Log Data: Anomalous radioactivity: .05% Ue 33½'-34½'; .09% Ue 98'-100'

Casing: 147' 2½" I.D.
Remarks: Elev. 5695.7' G.L.

		U_3O_8e .1	.2	.3
10				
20	Comm. Coring			
30				
40	gry. soft, silty, sli. carb. ss.	■		
50	dk. gry. mudstone dk. gry. f.g. to c.g. ss. dissem. carbon			
60	dk. gry. f.g. ss.			
70				
80	dk. gry. f.g. silty ss. dissem. carbon			
90				
100	dk. gry. silty ss. w/inter-bedded carbon trash & Arkosic pebbles	■		
10	gry. sdy. conq.			
20	dk. gry. ss.			
30	dk. gry. ss. w/abund. biotite			
40	dk. gry. conq. ss.			
50	T.D. 150'			
60				
70				
80				
90				
200				

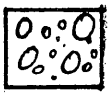
Oper: Josey - Roper
Proj: Big Hole Area
C.H: #6 | Fremont Co., Colo.
Loc: Center Big Bear #6
T.D: 70' Comp. Date: 5-30-56
Core Data: Cored 30-70'. Recovered altered feldspar dike material & feldspar

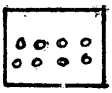
Gamma Log Data: No anomalous radioactivity

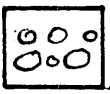
Casing: Uncased
Remarks: Hole filled with drilling mud.

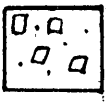
10	
20	Arkosic SS. & Conq. Abundant muscovite book & flakes
30	Comm. Coring
40	Altered feldspar dike material & muscovite frags.
50	
60	Fragmental feldspar & Muscovite
70	Feldspar schist
80	
90	
100	
10	
20	
30	
40	
50	
60	
70	
80	
90	
200	

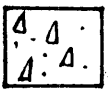
Lithologic Symbols

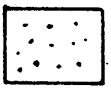

Unconsolidated boulders, gravel, & alluvium


Pebble conglomerate

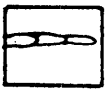

Boulder conglomerate

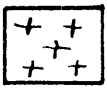

Arkosic Sandstone

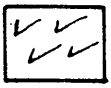

Micaceous Sandstone

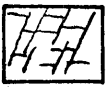

Sandstone

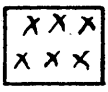
Shale


Mudstone


Carbonaceous Material


Feldspar


Schist or gneiss


Granite

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey - Roper

CORE HOLE No. 1

CLAIM No. Cactus

LOCATION Big Hole Area

SECTION _____ TOWNSHIP 18 S RANGE 73 W

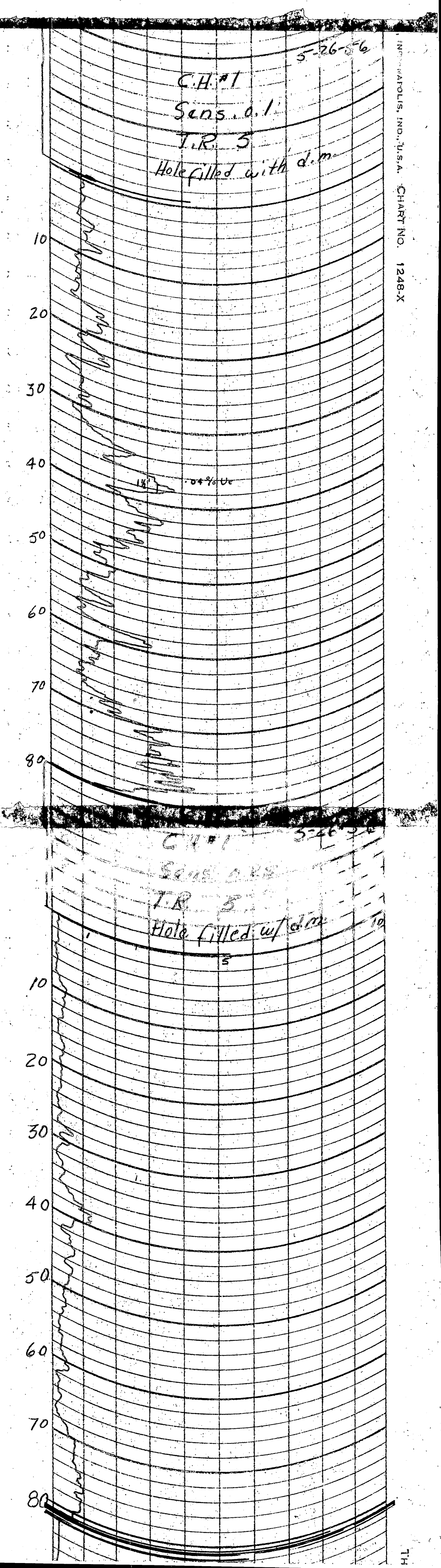
SURVEY 1 ELEVATION 5540 DATE 5-26-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 80' Dia. 4 1/4" 0-20', 3" 20-80'

OPERATOR Frizzell - Baldwin

REMARKS Hole uncased, filled with drilling mud. L.S 10'/min



INDIANAPOLIS, IND., U.S.A. CHART NO. 1248-X

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 39A (loc. 5' East C.H. #39)

CLAIM No. Cactus

LOCATION Big Hole Area

SECTION ____ TOWNSHIP 18S RANGE 73W

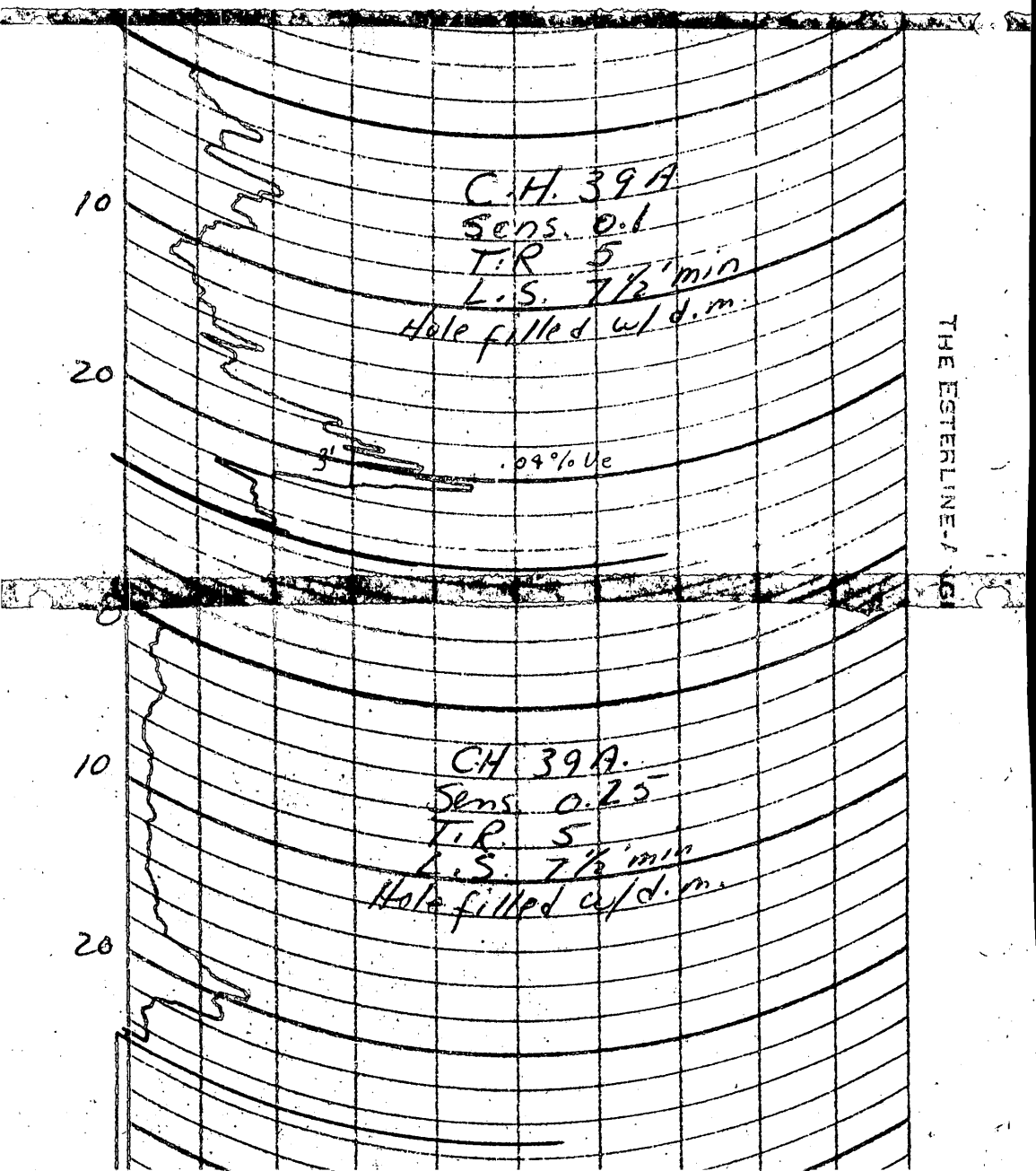
SURVEY 1 ELEVATION 5565.8' DATE 5-30-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 25' Dia. 4¼", 0-15'; 4", 15-25

OPERATOR Frizzell-Baldwin

REMARKS Experimental hole- not on DMEA project.



MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 39B (loc. 10' North CH. #39)

CLAIM No. Cactus

LOCATION Big Hole Area

SECTION _____ TOWNSHIP 18S RANGE 73W

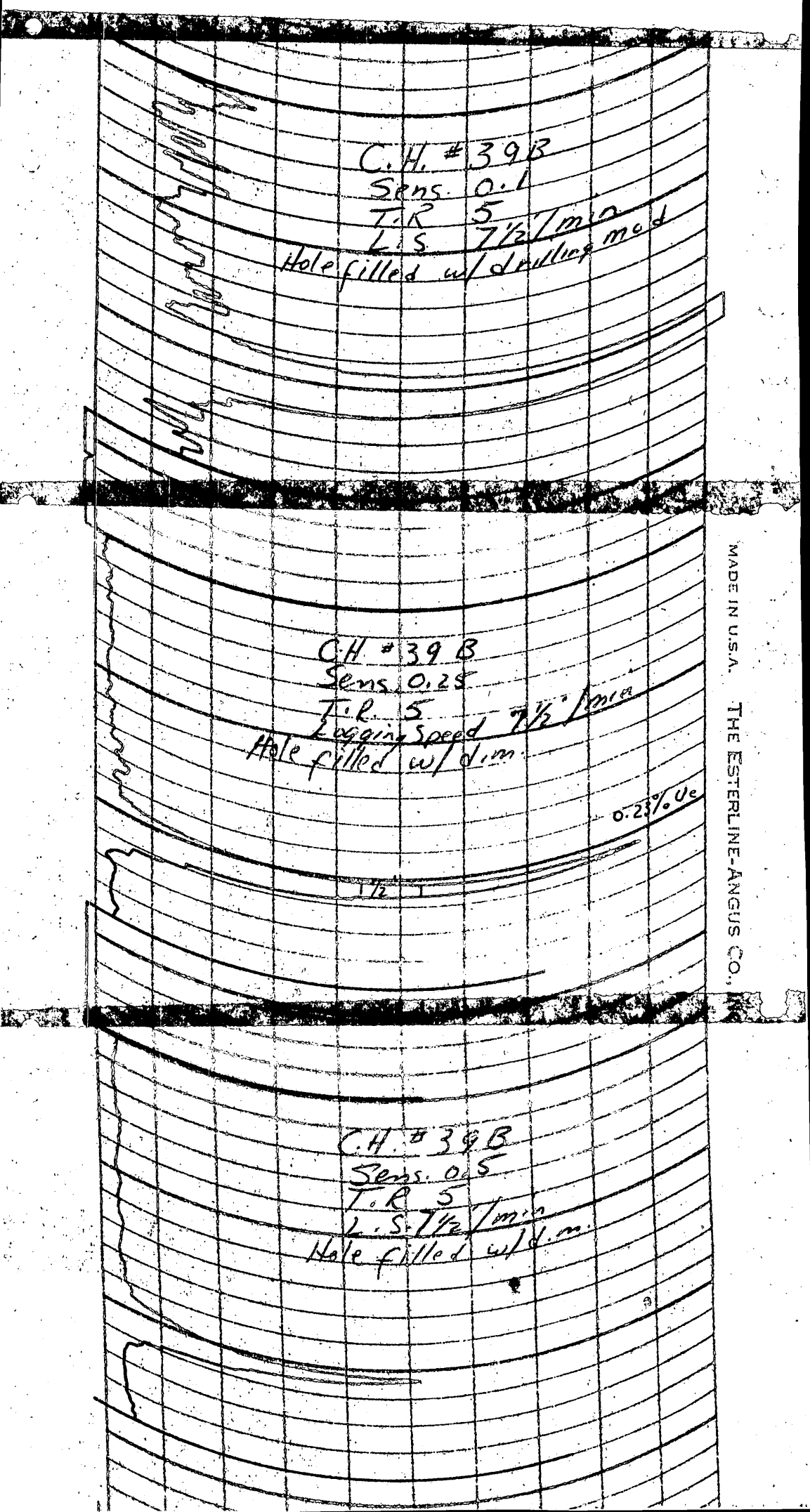
SURVEY _____ ELEVATION 5565.8' DATE 5-30-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 28' Dia. 4¼", 0-15', 4", 15-28'

OPERATOR Frizzell-Baldwin

REMARKS Experimental hole. Not on D.M.E.A. project.

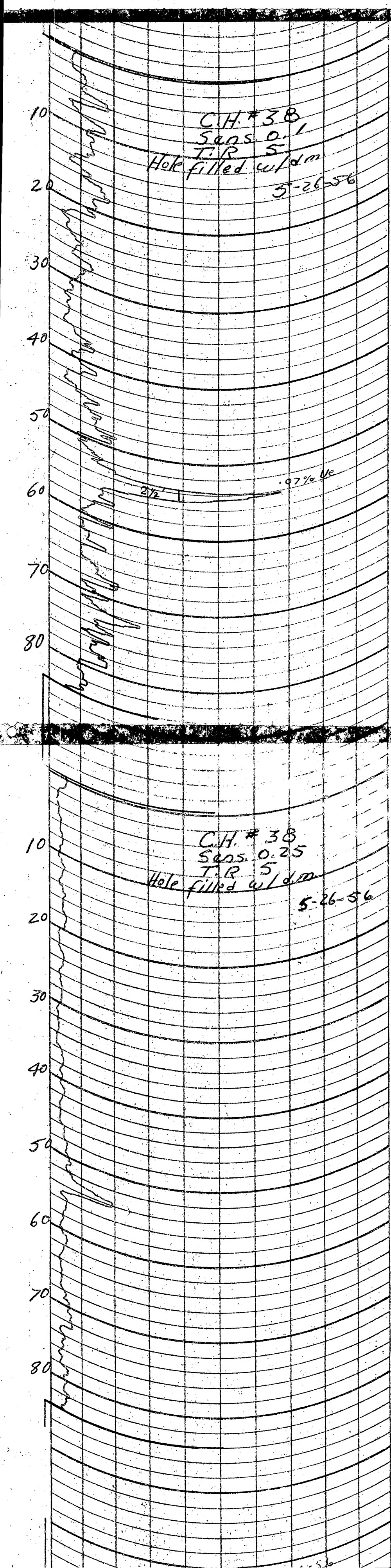


MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey - Roper
CORE HOLE No. 38
CLAIM No. Coctus
LOCATION Big Hole Area
SECTION _____ TOWNSHIP 18S RANGE 73W
SURVEY 1 ELEVATION 5572.8 DATE 5-26-56

TYPE OF LOG Gamma Ray
HOLE DEPTH 84' Dia. 4¼" 0-30; 3" 30-84'
OPERATOR Frizzell - Baldwin
REMARKS Hole uncased, filled with drilling mud. L.S. 10'/min.



MADE IN U.S.A. THE ESTERLINE-ANGUS CO., INC., INDIANAPOLIS, IND., U.S.A. CHART NO. 1248-X

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 36 Dia. 4¼", 0-20'; 4", 20-120'

CLAIM No. Big Hole #1

LOCATION Big Hole Area, Fremont Co., Colo.

SECTION _____ TOWNSHIP 18 S RANGE 73 W

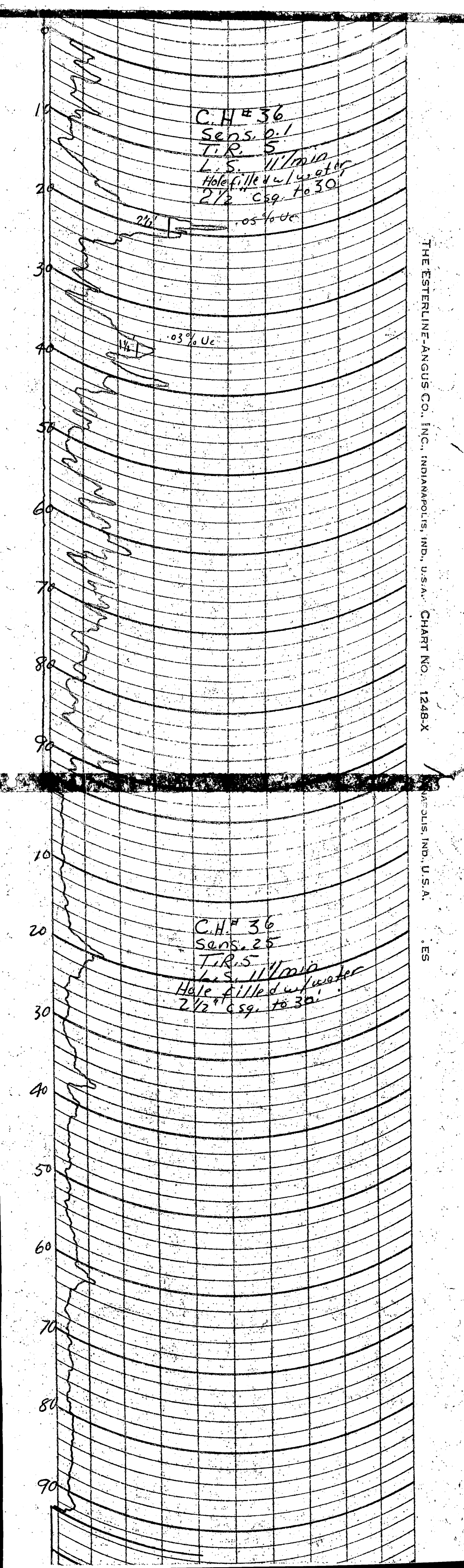
SURVEY 1 ELEVATION 5385.4 DATE 5-21-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 92' (log) Dia. 4¼", 0-20'; 4", 20-120'

OPERATOR Frizzell - Baldwin

REMARKS 2½" I.D. Csg. to 30'. Hole filled w/water



THE ESTERLINE-ANGUS CO., INC., INDIANAPOLIS, IND., U.S.A. CHART NO. 1248-X
INDIANAPOLIS, IND., U.S.A.
ES

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 4

CLAIM No. Cactus #1

LOCATION Big Hole Area, Fremont Co., Colo.

SECTION _____ TOWNSHIP 18S RANGE 73W

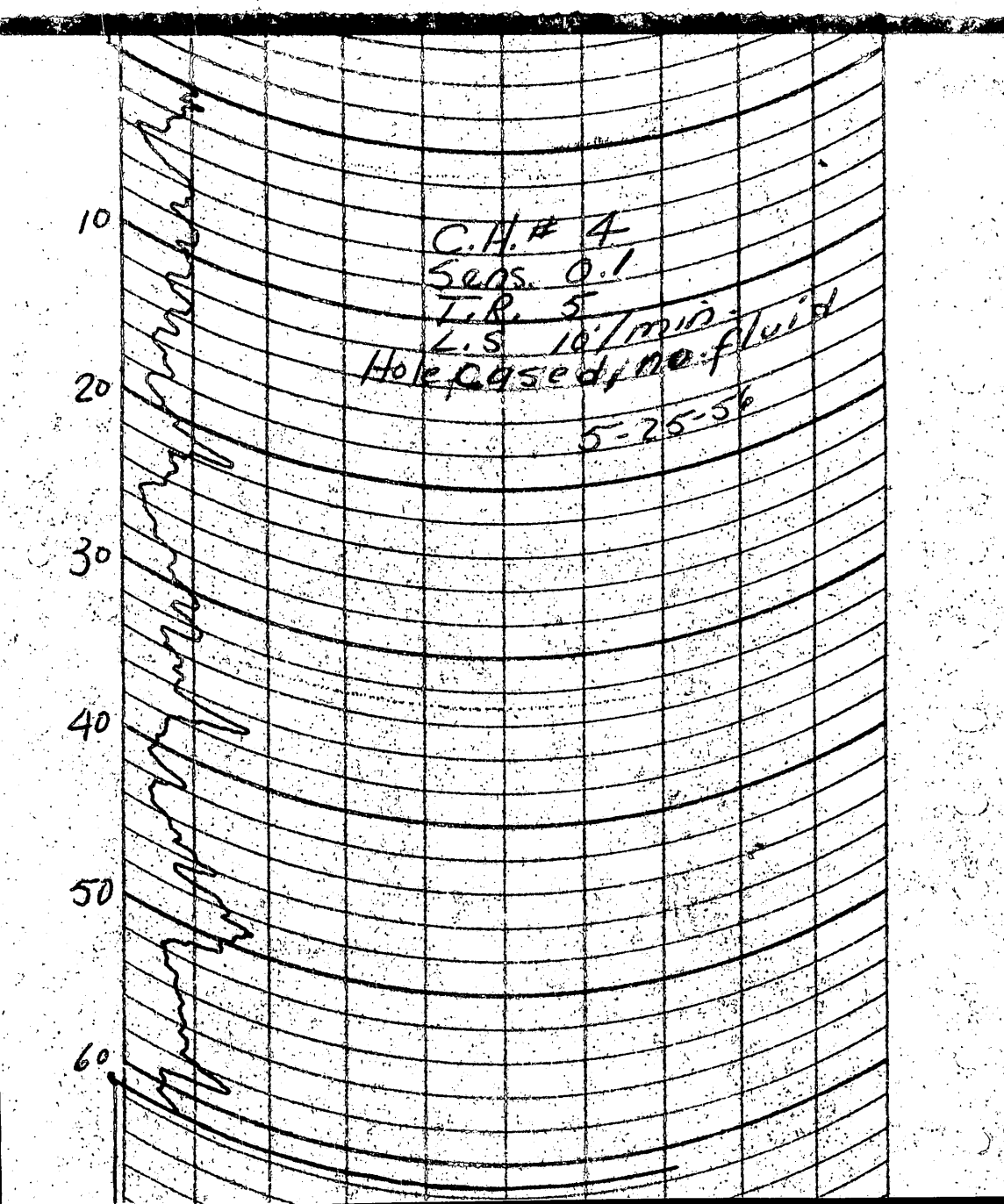
SURVEY 1 ELEVATION 5636.4 DATE 5-25-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 62', Dia. 4 1/4" 0-20'; 4" 20-62'

OPERATOR Baldwin-Jernigan

REMARKS Hole cased w/2 1/2" I.D. steel casing. No fluid in hole.



MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 34

CLAIM No. Big Hole #2

LOCATION Big Hole Area, Fremont Co., Colo.

SECTION _____ TOWNSHIP 18S RANGE 73W

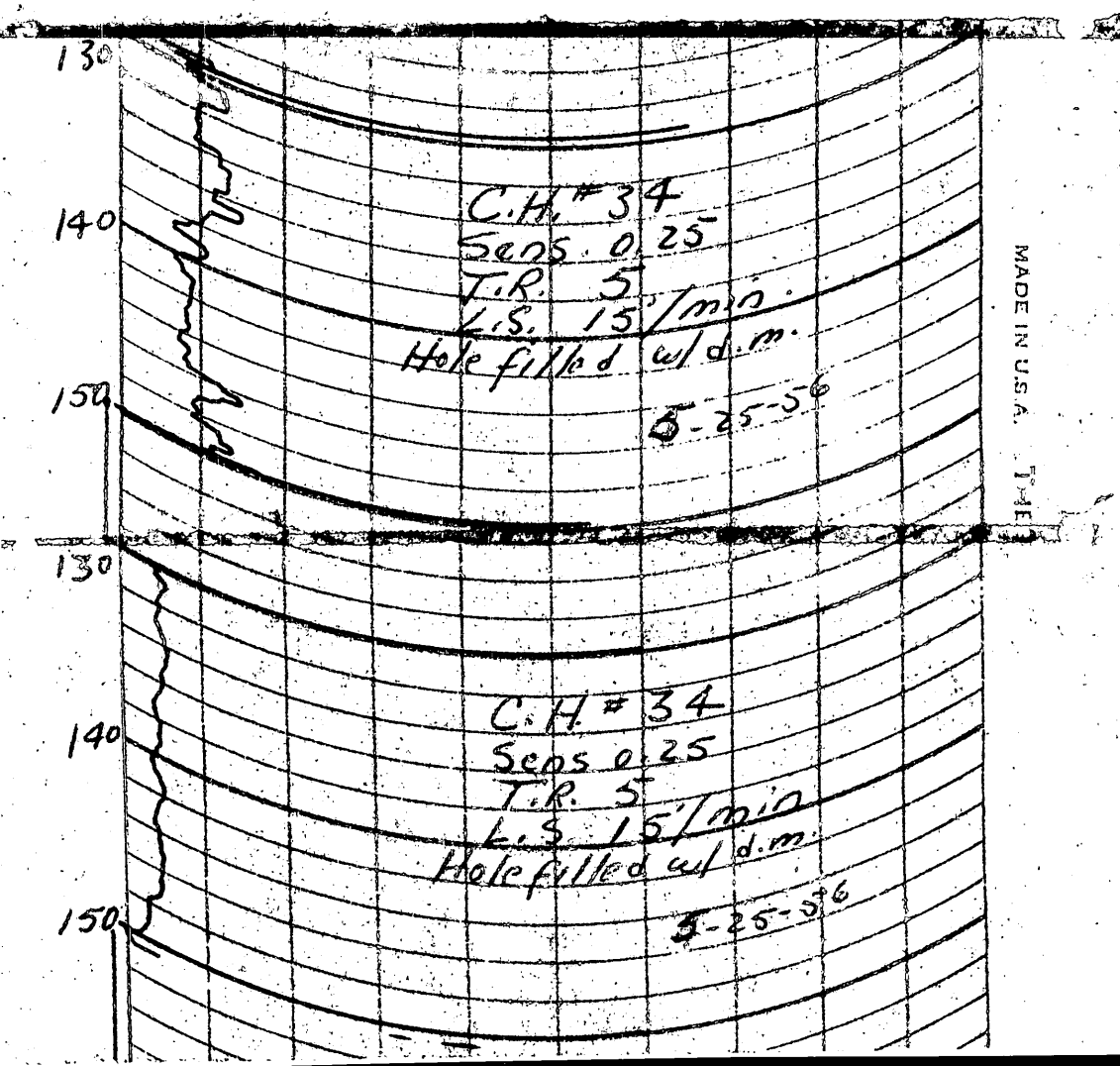
SURVEY 2 ELEVATION 5685.7 DATE 5-25-56

TYPE OF LOG Gamma Ray

HOLE DEPTH Logged 140'-150'

OPERATOR Frizzell-Baldwin

REMARKS Hole filled with drilling mud.



MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 6

CLAIM No. Big Bear #6

LOCATION Big Hole Area, Fremont Co. Colo.

SECTION ____ TOWNSHIP 18S RANGE 73W

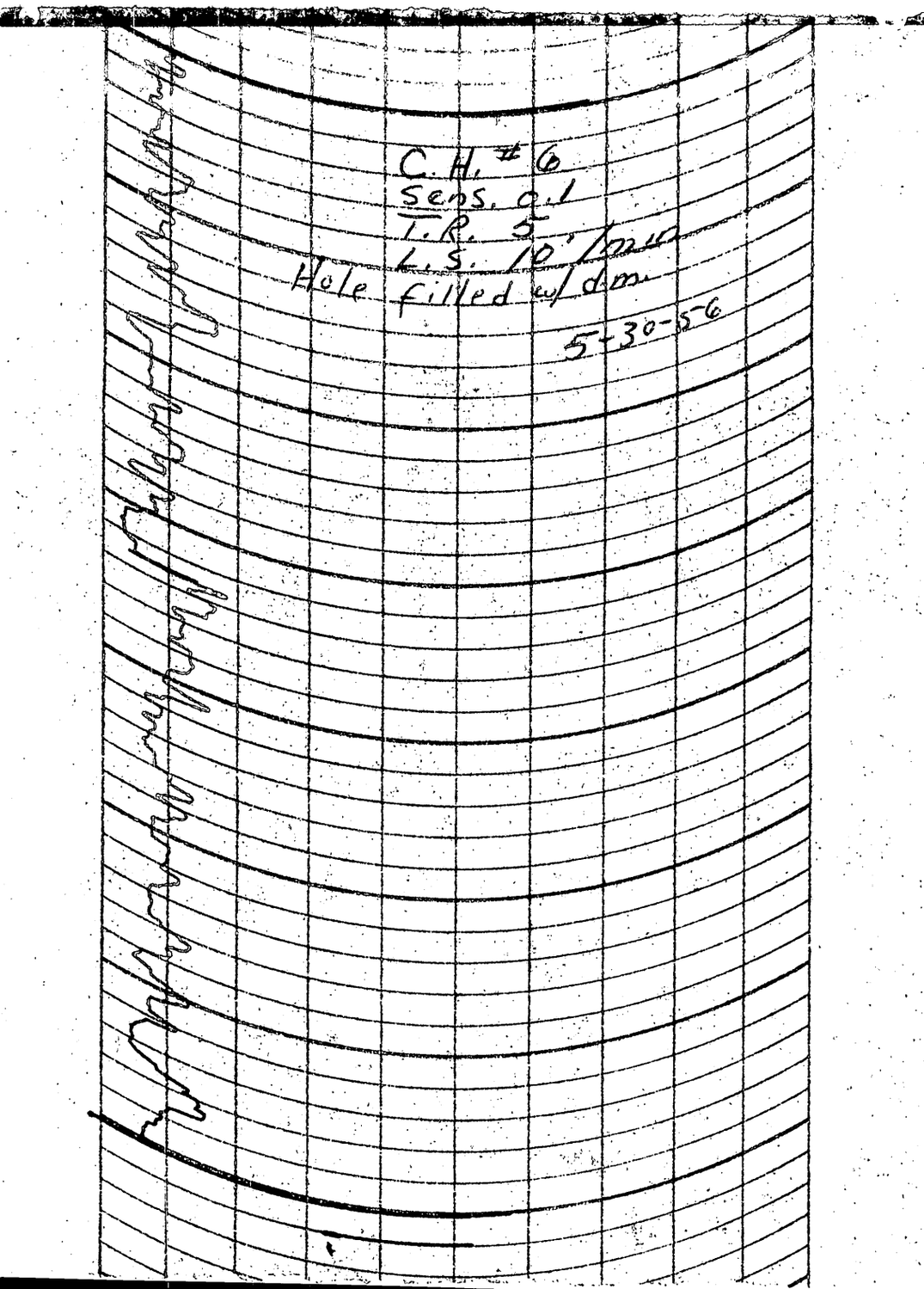
SURVEY 1 ELEVATION 5708 DATE 5-30-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 70', Dia. 4 1/4" 0-30', 4", 30-70'

OPERATOR Frizzell-Baldwin

REMARKS Hole filled with drilling mud
Hole size: 4 1/4" 0-30', 4" 30-70'



MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 15

CLAIM No. Big Bear #2

LOCATION Big Hole Area

SECTION ____ TOWNSHIP 18S RANGE 73W

SURVEY ____ ELEVATION 5935.5 DATE 8-8-56.

TYPE OF LOG Gamma Ray

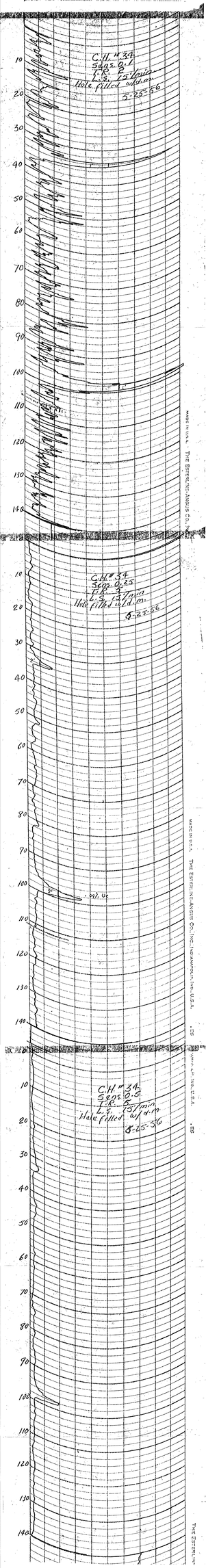
HOLE DEPTH ? 350' Logged to 330'

OPERATOR Frizzell-Baldwin

REMARKS Stuck core barrel - left 190' drill pipe and core barrel in hole.

MARINE EXPLORATION CO.
5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey - Roper
CORE HOLE No. 34
CLAIM No. Big Hole No. 2
LOCATION Big Hole Area, Fremont Co. Colo.
SECTION ..... TOWNSHIP 18 S RANGE 73 W
SURVEY 1 ELEVATION 6685.7 DATE 5-25-56
TYPE OF LOG Gamma Ray
HOLE DEPTH 140, Dis. 9/9 0-60, 7/8 60-150'
OPERATOR Frizzell - Baldwin
REMARKS Hole filled with drilling mud.



MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey - Roper

CORE HOLE No. 39

CLAIM No. Cactus

LOCATION Big Hole Area, Fremont Co., Colo.

SECTION _____ TOWNSHIP 18S RANGE 73W

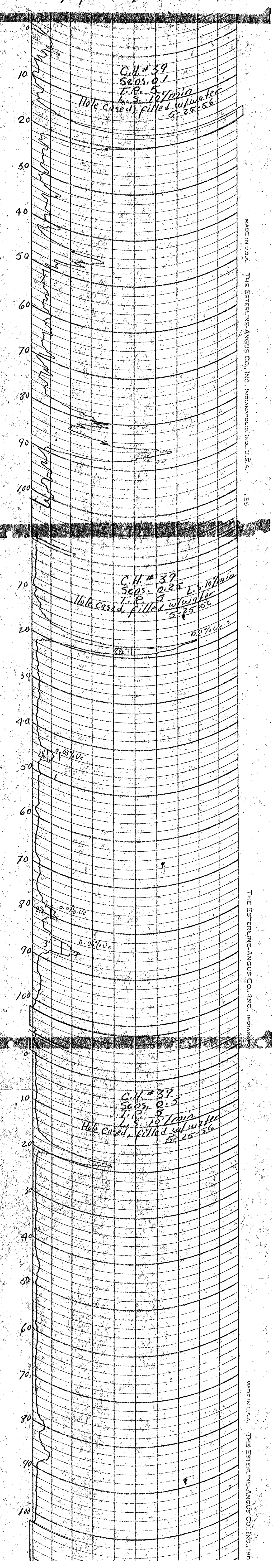
SURVEY 1 ELEVATION 5565.8 DATE 5-25-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 102' Dia. 4 1/4" 0-118', 4" 118-125'

OPERATOR Frizzell, Baldwin

REMARKS Hole cased w/2 1/2" I.D. steel casing, filled w/clear water.

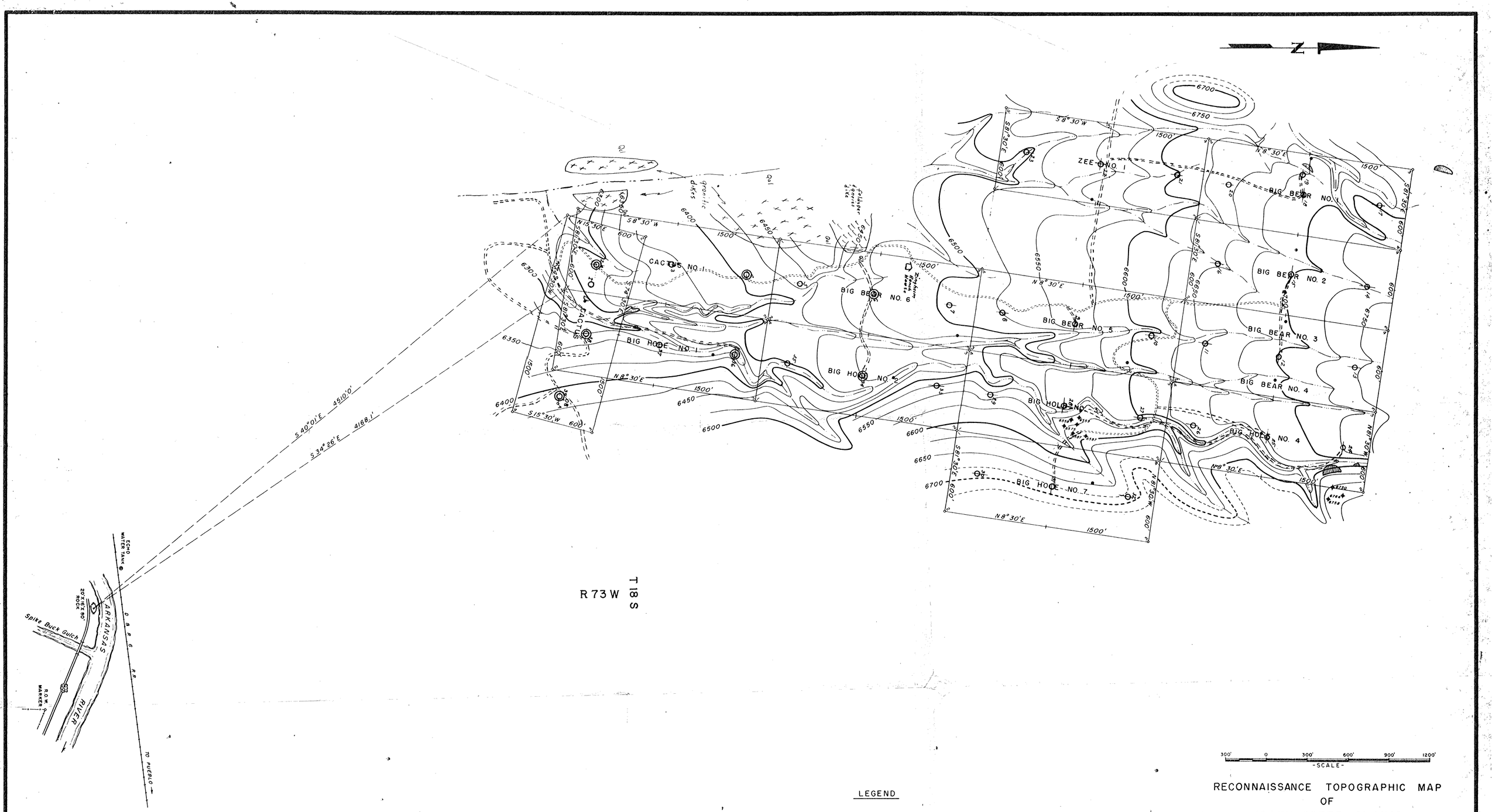


Oper Josey-Roper
Proj: Big Hole Area
C.H. #15 | Fremont Co., Colo.
Loc: Center Big Bear #2
T.D. 350 Comp Date 8-8-56
Core Data: Cored 60-350'
recovery 21%

Gamma Log Data: .06% Ue
92-93'; .06% Ue 114-116;
.045% Ue 147-149

Casing: Uncased
Remarks: Elev. 5935.5 G.L.

10
20
30
40
50
Arkosic ss. & mudstone
60 Fe O3 Stn.
Comm. coring
Arkosic ss. & conq.
Fe O3 Stn.
70
dk. gry. & grn argill.
qtz. ss.
Ark ss. & conq.
80
dk. brn. dk. gry, dk. grn. &
maroon mudstone &
sandy shale
gry. f.g. sdy. sh.
gry. to wh. qtz ss.
90 gry sdy sh.
lt. gry to dk gry m.-f.
gr. qtz ss. dissem.
carbon
dk. brn qtz. ss.
100 gry mudstone
c.g. qtz. ss.
10
m.-f.g. qtz. ss.
Abund X-bedded carbon
& heavy mineral laminae
20
yellow ark. ss. & conq.
30
ark ss. & granite
boulders
40
ark ss. & granite
boulders.
gry. f.g. ss. & granular
50 carbon
lt. gry. m.g. qtz ss.
60 blk to lt gry sh.
dk. gry sdy sh.
sdy sd.
70
boulders
80
boulders
90
boulders
200
granite boulders &
pebbles
10
blk shale
shale & conq.
20
dk. gry. shale
& conq.
30
ark. ss. & conq.
40
ark. ss. & conq.
50
soft, gry. f.g. ss.
60
soft. lt. gry. fine
grained qtz. sand.
dissem. carbon
70
soft. blk. shly sd.
80
ark. ss. & conq.
90
gry.
300
10 gry
20 gry
gry.
30
gry to blk.
40
gry to blk shale. & sdy. shale
Stuck core bit at 340' left 190' drillstem, core barrel in hole.
50



LEGEND

- CORE HOLE DRILLED
- BEDDED ORE DEPOSIT
- CENTER SIDE POST
- DISCOVERY PIT
- Core Hole - Stage 1
- Core Hole - Stage 2
- Completed Core Hole

RECONNAISSANCE TOPOGRAPHIC MAP OF JOSEY-ROPER CLAIMS

ECHO CANYON AREA

FREMONT COUNTY, COLORADO

CHARLES C. O'BOYLE
Geological Engineer

CONTROL: Vert. ± 1/8 CONTOUR INTERVAL
Horiz. 50'

AUGUST 2, 1955

Oper: Josey-Roper
Proj: Big Hole Area
C.H.: # 9 Fremont Co., Colo.
Loc: Center Big Deer #5
T.D: 296 Comp. Date: 5-7-56
Core Data: Cored 25'-296'
Recovery 39%

Gamma Log Data: .07% Ue
267'-269'

Casing: Uncased
Remarks: Elev. 5823.0' G.L.

		.1	.2	.3
	10			
	20			
	30 dk brn.			
	brn. to yellow. conq. 40			
	gry. to yellow conq. dk. brn. c.g. sand 50			
	dk. gry. f.g. sand gry. 60 gry f.g. sand			
	gry f.g. sand gry. to brn. gry c.g. mica. sd. 70			
	gry. f.g. 80 gry. c.g.			
	gry c.g. 90			
	gry. conq. dk. gry. (FeO_2) 100 dk. gry.			
	dk. gry. silty 10 c.g.			
	yellow (FeO_2) 20			
	sand conq (FeO_2) 30			
	gry. 40			
	yellow 50			
	dk. gry. yellow 60			
	70			
	80			
	90 Arkosic			
	200			
	10			
	gry. coarse conq. 20			
	gry. gry. 30			
	40 gry. f.g.			
	coarse conq. 50 gry. f.g.			
	gry. 60			
	gry blk. conq. with sli. amt. carbon 70			
	80			
	granite boulders 90			
	T.D. 296' 100			

Oper: Josey-Roper
Proj: Big Hole Area
C.H.: #24 | Fremont Co., Colo.
Loc: North-center Big Hole # 4
T.D. 270' Comp. Date: 6-30-56
Core Data: Cored 10'-270'
Recovery 34%

Gamma Log Data: .05% Uc
5-7½'; .085% Uc 89-90'

Casing: Uncased
Remarks: Elev. 5921.5 G.L.

		.1 .2 .3
	10	
	20	
	gry. shly. sd. 30	
	gry. shly. sd. 40	
	gry. to wh. ang. qtz conq. 50	
	granite & felspar pebbles. 60	
	lt. gry. 70	
	qtz. & feldspar sd. 80	
	gry. 90	
	f.g. qtz & feldspar cmq. & ss. 100	
	gry 10	
	gry. 20	
	gry. 30	
	40	
	50	
	gry. conq. 60	
	dk gry 70	
	dk gry. 80	
	qtz. c.g. ss. 90	
	dk gry. conq. mica. sd. f.g. dk brn. to choc. brn. clayey sd. 200	
	choc. to dk brn. f.g. clayey sd. 10 lt. gry. conq.	
	qtz. & feldspar conq. 20 granite fragments	
	lt. gry. sof. ss. 30	
	dk. brn. clayey f.g. sd. 40	
	50	
	dk. gry. to blk v.f.g. qtz sd. containing finely disseminated carbon & laminated heavy blk. minerals 60	
	as above conq. 70 granite boulders	
	T.D. 270' 80	
	90	
	200	

Oper: Josey-Roper
Proj: Big Hole Area
C.H: #28 Fremont Co., Colo.
Loc: Center Big Hole #3
T.D: 268' Comp. Date: 6-13-56
Core Data: Cored 6'-268'
Recovery 27%

Gamma Log Data:
.067% Ue 48-50'; .095% Ue 58-62'; .098% Ue 108-111'; .06% Ue 250-251'
Casing: 126' 1½" I.D.
Remarks: Elev. 5753.4 G.L.

	coring started
10	
20	
30	
	dk. gry.
	dk. gry. to blk.
40	
	dk. gry.
50	
	dk. gry.
	gry. cong.
60	dk. gry. to blk
	shale with carbon trash
70	
	dk. gry
80	
90	dk. gry.
	dk. gry.
100	
10	dk. gry. sdy cong. with carbon trash.
	Arkosic
20	
30	
	dk. gry.
40	choc. brn. clay
	choc. brn.
	gry
50	
	gry.
60	
	gry. c.g.
70	
	dk. gry.
80	
90	
	dk. gry.
200	
	dk gry
210	
	dk. gry.
220	
230	
240	
	gry.
250	
	gry.
260	
	granite boulders
	T.D. 268'
270	

Oper: Josey-Roper
Proj: Big Hole Area
C.H: #31 | Fremont Co., Colo.
Loc: Center Big Hole #7
T.D: 252 Comp Date: 6-19-56
Core Data: Cored 50-252
Recovery 10%

Gamma Log Data: .055% Ue 136-137'; .075% Ue 158-159'; .065% Ue 208-209½'

Casing: Uncased
Remarks: Elev. 5851.8 G.L.

		.1	.2	.3
	unconsolidated soil, pebbles, granite boulders. 10			
	20			
	30			
	40			
	boulders, gravel, & conq. 50			
	60			
	70			
	80			
	90			
	100			
	10			
	20 dk. gry. to wh. fresh water lime-stone. limy mudstone			
	dk gry. 30			
	dk. gry. 40			
	dk gry 50			
	dk. gry. 60 shly. carbon trash			
	dk. gry. c.g. 70			
	dk. gry. c.g. 80			
	dk. gry. qtz & feldspar 90			
	dk. gry. 200			
	lt. gry. arkosic 10			
	lt. gry. 20			
	lt. gry. 30			
	40			
	lt. gry. c.g. 50			
	T. D. 252' 60			

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey Roper

CORE HOLE No. 9

CLAIM No. Big Deer #5

LOCATION Big Hole Area

SECTION 4 TOWNSHIP 18S RANGE 73W

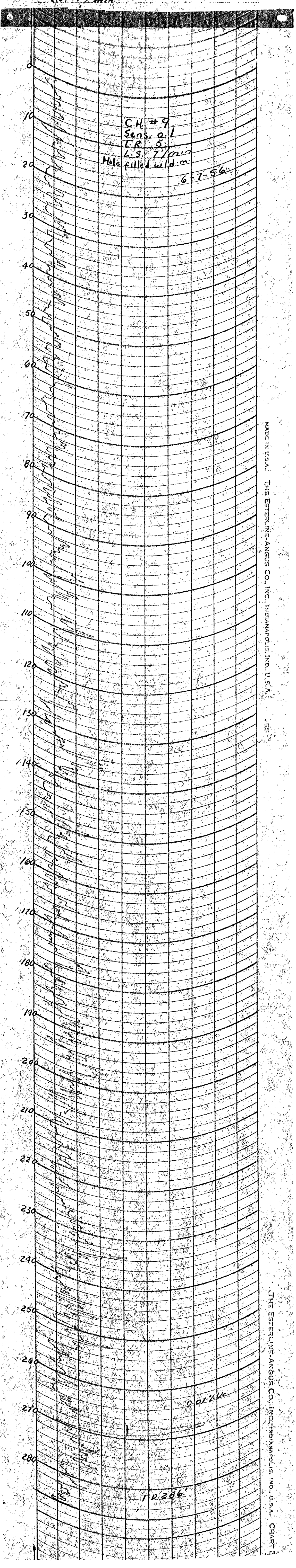
SURVEY 1 ELEVATION 5823.0 DATE 6-19-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 296'

OPERATOR Baldwin - Jernigan

REMARKS Hole uncased, filled with Water
L.S. 7'/min



MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey Roper

CORE HOLE No. 31

CLAIM No. Big Hole # 7

LOCATION Big Hole Area

SECTION _____ TOWNSHIP 18 S RANGE 17 W

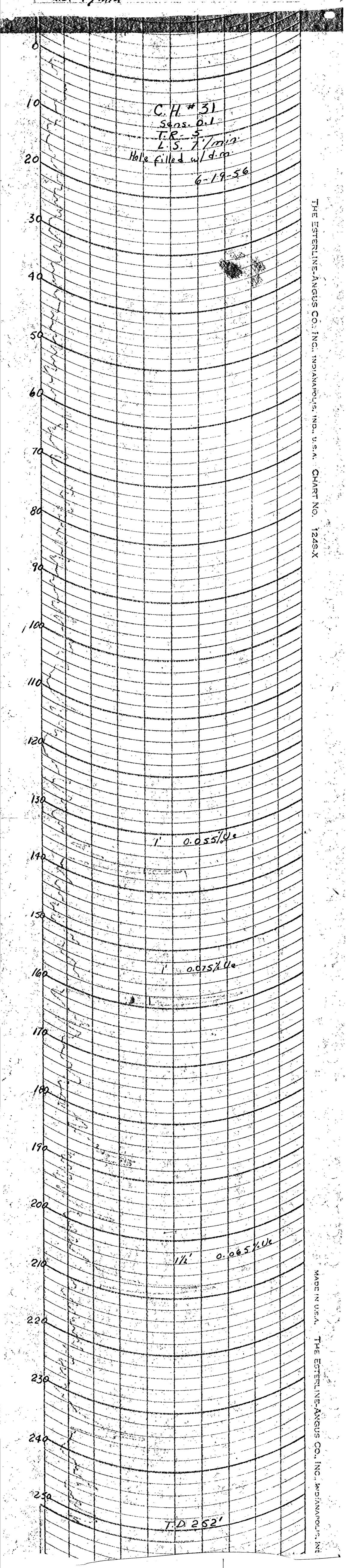
SURVEY 1 ELEVATION 5851.8 DATE 6-7-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 252'

OPERATOR Baldwin - Jernigan

REMARKS Hole uncased, filled with water
L.S. 7'/min



MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey Roper

CORE HOLE No. 24

CLAIM No. Big Hole #4

LOCATION Big Hole Area

SECTION _____ TOWNSHIP 18S RANGE 73W

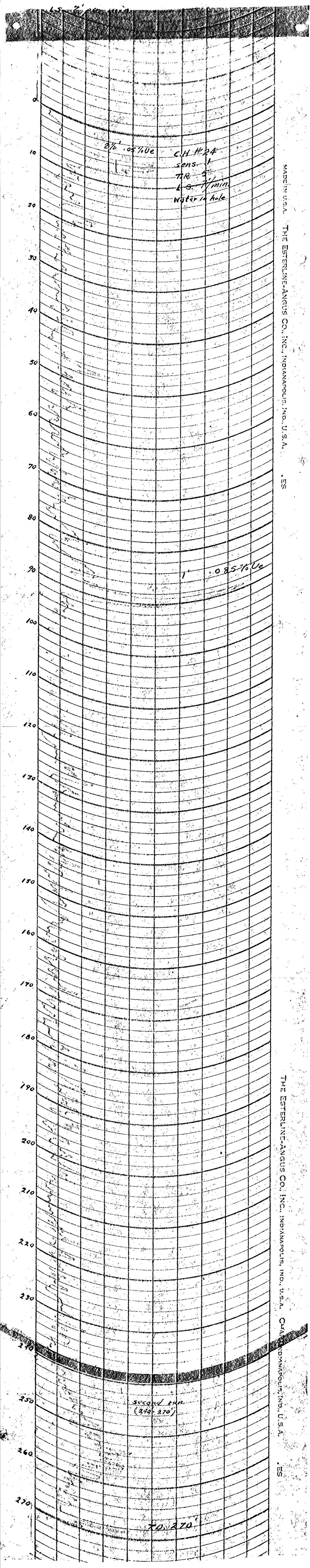
SURVEY 1 ELEVATION 5921.5 DATE 6-29-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 270'

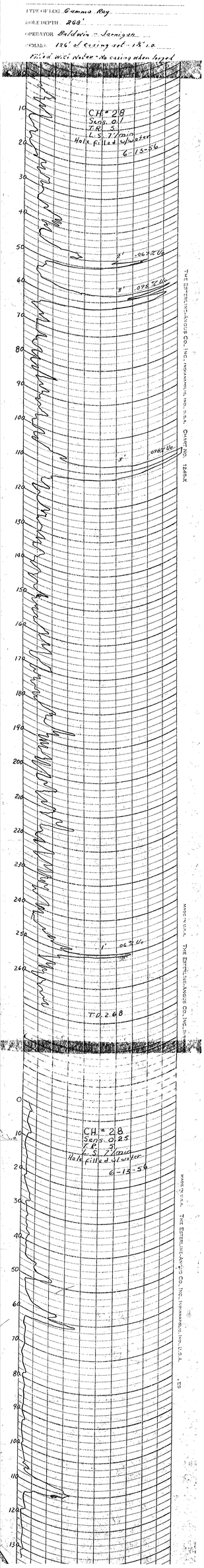
OPERATOR Fuzzell - Baldwin

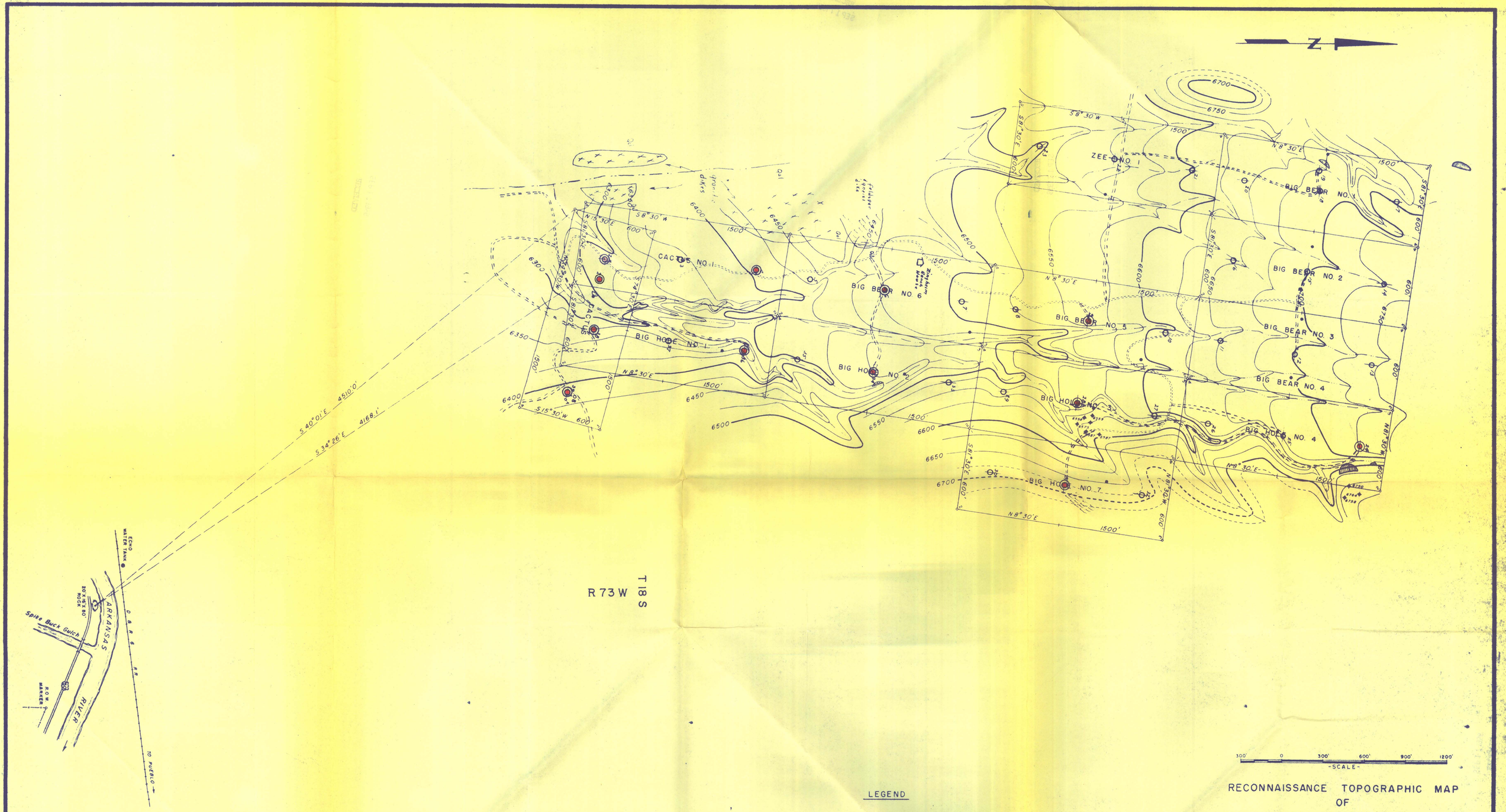
REMARKS Hole uncased, filled with water



MARINE EXPLORATION CO.
5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey Roper
CORE HOLE No. 28
CLAIM No. Big Hole #3
LOCATION Big Hole Area
SECTION ... TOWNSHIP 18S RANGE 73 W
SURVEY ... ELEVATION 2753.4 DATE 6-13-56
TYPE OF LOG Gamma Ray
HOLE DEPTH 268'
OPERATOR Baldwin - Jarnigan
REMARKS 126' of casing set - 1½" I.D.
Filled w/ Water - No casing when logged





LEGEND

- CORE HOLE DRILLED
- BEDDED ORE DEPOSIT
- CENTER SIDE POST
- DISCOVERY PIT
- Core Hole - Stage 1
- Core Hole - Stage 2
- Completed Core Hole

RECONNAISSANCE TOPOGRAPHIC MAP
OF
JOSEY-ROPER CLAIMS

ECHO CANYON AREA

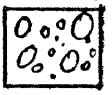
FREMONT COUNTY, COLORADO

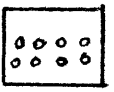
CHARLES C. O'BOYLE
Geological Engineer

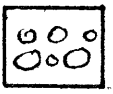
CONTROL Vert. ± 1/2 CONTOUR INTERVAL
Horiz. 50'

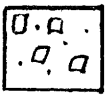
AUGUST 2, 1955

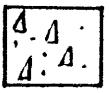
Lithologic Symbols

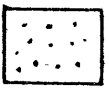

Unconsolidated boulders, gravel, & alluvium

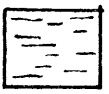

Pebble conglomerate


Boulder conglomerate

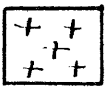

Arkosic Sandstone

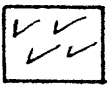

Micaceous Sandstone


Sandstone

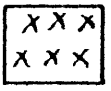

Shale

Mudstone


Carbonaceous Material


Feldspar

Schist or gneiss


Granite

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 25

CLAIM No. Big Hole #4

LOCATION Big Hole Area

SECTION _____ TOWNSHIP 18 S RANGE 73 W

SURVEY 1 ELEVATION 5926.7 DATE 7-17-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 300'

OPERATOR Baldwin - Jernigan

REMARKS Hole uncased - Filled with Water L.S. 7/min.

MARINE EXPLORATION CO.

5115 Westheimer Rd.
HOUSTON 19, TEXAS

COMPANY Josey-Roper

CORE HOLE No. 12

CLAIM No. Big Bear #3

LOCATION Big Hole Area

SECTION ____ TOWNSHIP 18 S RANGE 73 W

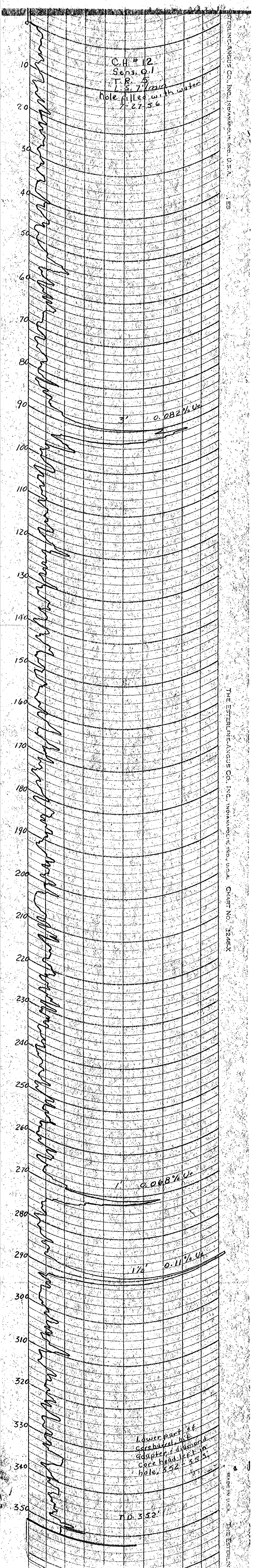
SURVEY 1 ELEVATION 5938.0 DATE 7-27-56

TYPE OF LOG Gamma Ray

HOLE DEPTH 352'

OPERATOR Baldwin-Jernigan

REMARKS Hole uncased. Filled with water. L.S. 7'/min.



Oper: Josey Roper
Proj: Big Hole Area
C.H. #12 Fremont Co., Colo
Loc: Center of Big Bear #3 & 4
T.D. 352' Comp Date: 7-27-56
Core Data: Cored 60' to 352'.
Recovery 24%.

Gamma Log Data: .082% Ue 90-93'; .068% Ue 271-272'; .11% Ue 289½-291.

Casing: Uncased
Remarks: Left core head in hole.
El. 5938.0

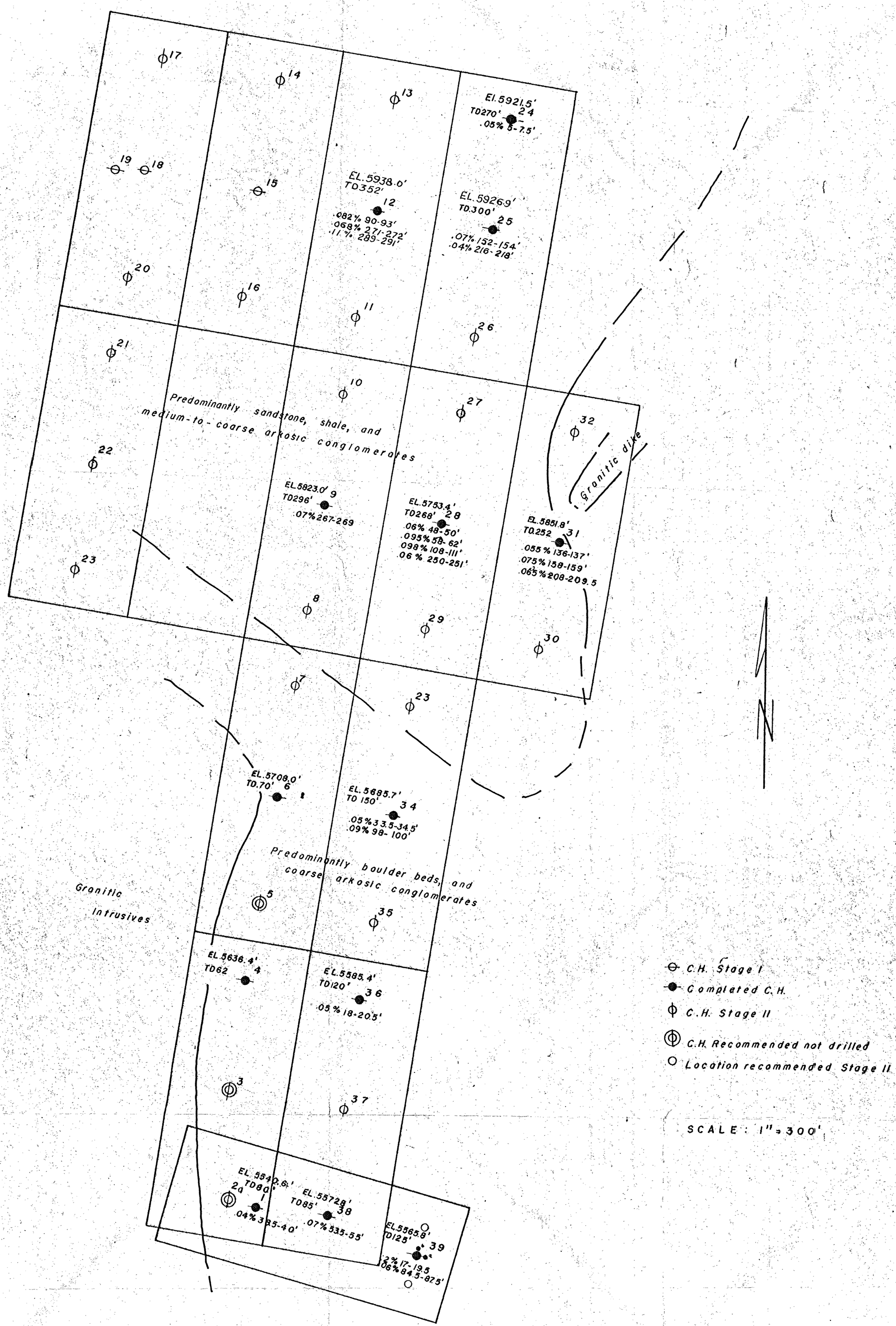
		.1	.2	.3
10				
20				
30				
40				
50				
60	Shly. conq. Fe0 stn. Comm. coring			
70	Pebble conq. qry. shale			
80	qry. m-c.q. ss.. shly. ss.			
90	qry. med.gr. ss. qry. to blk. shly. ss.			
100	dk. qry. shly. ss. c.q. qtz. ss.			
10	qry. shly. qtz. ss.			
20	dk. brn. shly. ss. dk brn. shale			
30	conq.			
40	dk. brn. sh. qry. f.q. shly. ss. dk. qry to blk. sh.			
50	qry. f.q. ss. qry. c.q. ss.			
60	qry. conq. qry. f.q. ss. granite pebbles			
70	conq. granite boulders			
80	Pebble conq.			
90	granite pebbles dk. qry. sh. qry. sdy. sh.			
200	qry. ark. sd. qry. shly ss. soft dk. qry. sh.			
210	dk red to brn shly. ss. choc. brn. shale			
220	dk. brn. shly. ss. choc. brn. sh.			
230	choc. brn. sh. qry. f.q. shly. ss.			
240	qry. f.q. ss. qry. shly. ss.			
250	qry. to brn. argill. ss.			
260	c.q. to m.q. ss. dk. qry. sh.			
270	qry. f.q. to m.gr. ss.			
280	dk. qry. sdy sh. granite pebbles dk. qry. sh.			
290	Pebble conq. dk. qry sh.			
300	dk. qry. shly ss. Pebble conq.			
	ark. conq.			
310	qry. sh.			
320	granite boulders			
330	qry. m. to c.q. qtz. ss.			
340	qry. ss. blk. sh. qry. ss.			
350	c.q. qtz. ss. & conq. c.q. ss. & carbon trash			
360	T.D. 352'			

Oper: Josey Roper
Proj: Big Hole Area
C.H: #25 | Fremont Co., Colo.
Loc: Center of Big Hole #4
T.D: 300' Comp. Date: 7-17-56
Core Data: cored 30' to 300'
Recovery 42%

Gamma Log Data: .072% Ue
152' - 153' .043% Ue
217 - 218'

Casing: No casing
Remarks:
El. 5926.7

	.1	.2	.3
10			
20			
30 comm. coring			
grn. c.g. argillaceous ss. 40			
dk. gry. f.-m.g. shly. ss. dk. gry. f.-m.g. qtz. ss. 50			
gry. shale 60			
c.g. ark. conq. FeO stn. c.g. qtz. ss. 70 blk. shale			
dk. brn. to choc. brn. argillaceous ss. dk. gry. med. gr. argill. 80 qtz. ss.			
dk. gry. to dk. brn. argill. ss. dk. brn. m.g. angular 90 shly. ss.			
Soft, gry. shly. ss. 100			
Soft, gry. shly. ss. & pebble conq. 10			
dk. grn. to dk. gry. argill. qtz. ss. 20			
pebble conq. & c.g. ss. 30 gry. shale			
dk. brn. f.g. argill. ss. dk. brn. f.g. shaley ss. 40			
dk. gry. shly. ss gry. shly ss. 50 gry. sdy. shale			
dk. gry. shale 60			
dk. gry. sdy. shale 70			
gry. f.g. shaley ss. choc. brn. to dk. brn. 80 shaley ss.			
dk. brn. shaley ss. dk. brn. sdy sh. 90			
lt. gry. arkosic ss. Abund. FeMg minerals shly. ark. ss. 200			
f.g. silty ss. thin carbon streaks 210			
gry. soft, qtz. & ark. ss. blk. sdy sh. lt. gry. sdy. sh. 220			
c.g. ark. ss. dk. gry. m.g. ss. 230 dk. gry. to blk. sh., ark. conq.			
ark. conq. 240			
gry. sdy. sh. 250			
ark. conq., interbedded gry. shale. 260			
brn. f.g. shly. ss. soft dk. brn. sh. brn & gry. shly. ss. 270 soft. choc. brn sh. gry sh.			
gry. shly. ss. gry. ark. ss. 280			
dk. gry. ark. conq. gry shly. ss. 290			
qtz. & ark. conq. 300 T.D.			

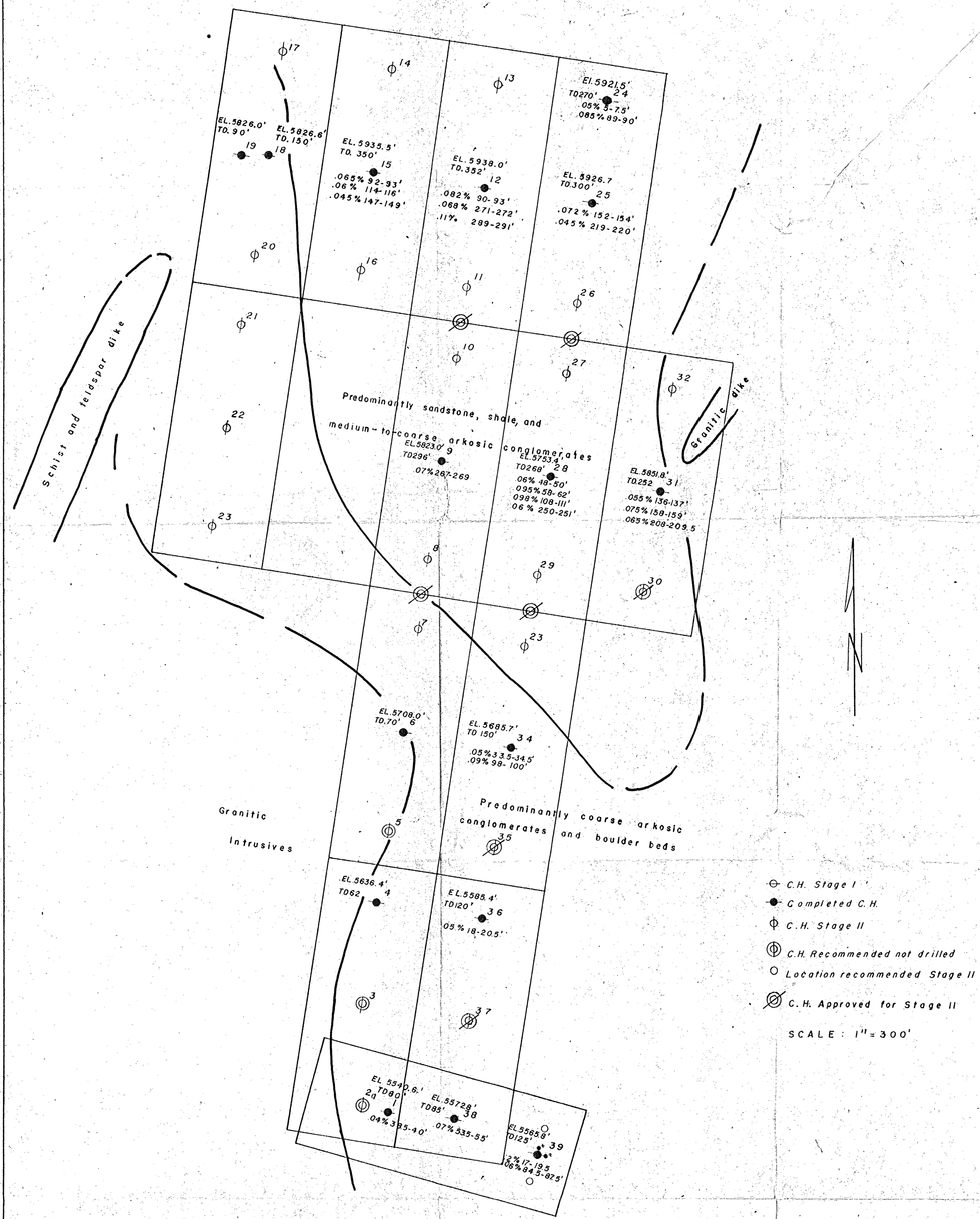


JOSEY-ROPER PROJECT

BIG HOLE AREA

FREMONT COUNTY, COLORADO

Jack Q. Frizzell
7-10-56
8-1-56



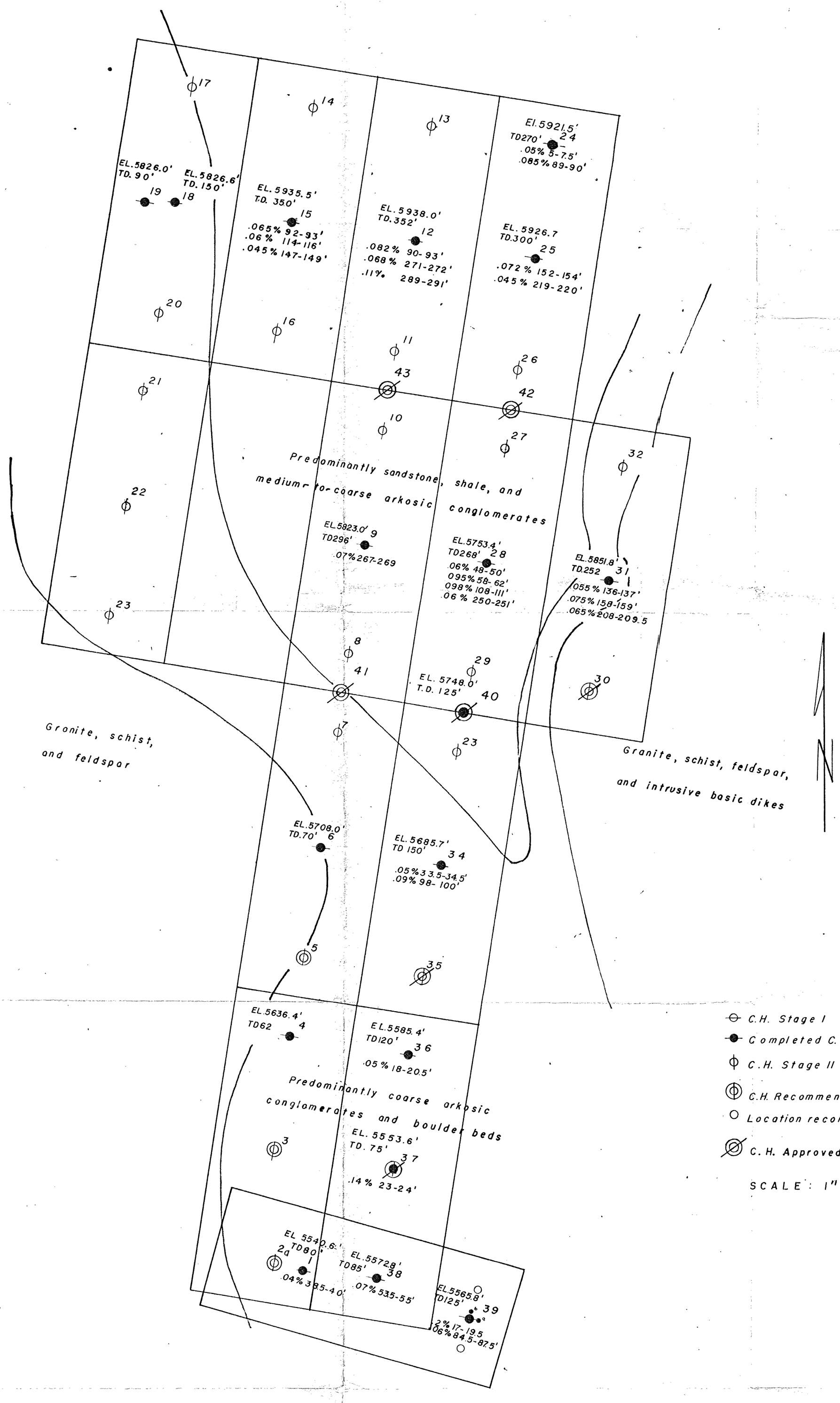
JOSEY-ROPER PROJECT

BIG HOLE AREA

FREMONT COUNTY, COLORADO

Jack Q. Frizzell

7-10-56
8-15-56



JOSEY-ROPER PROJECT

BIG HOLE AREA

FREMONT COUNTY, COLORADO

Jack Q. Frizzell

7-10-56
8-15-56
9-3-56