



## DATA SHEET AND DISCUSSION

**LOCATION:** NE NE (600 feet South of North line, and 724 feet West of East line), Section 33, Township 2 North, Range 54 West, Washington County, Colorado.

**COMMENCED:** February 11, 1960

**COMPLETED:** February 17, 1960

**CONTRACTOR:** Exeter Drilling Company, Denver, Colorado

**CASING:** Set 3 joints, 99 feet of 8 5/8 inch, 24 pound, 8 Round thread new casing at 110 feet with 90 sacks of cement, 2% Calcium Chloride, 4% Gel. Note channel cement job, recemented with 50 sacks cement.

**MEASUREMENTS:** All measurements are taken from the kelly bushing approximately 9 feet above the ground elevation. Note a 2' downward correction is necessary to make the core match the log.

**ELEVATION:** 4569 ground (Powers) 4578 kelly bushing

<u>Formation</u>	<u>Sample Tops</u>	<u>Scheumburger Tops</u>	<u>Datums</u>
Niobrara	3960	3972	4 606
Timpas	4378	4383	4 195
Carlile	4427	4435	4 142
Greenhorn	4499	452	4 54
Mowry	4651	4763	- 185
Brown Lime	4655	4770	- 192
"D" Sand	4847	4849	- 271
"J" Sand	4918	4916	- 338
Total Depth	4986	4987	- 409

**DISCUSSION:** The "D" Sand, 4849, (-271), was hard tight sand stringers with worked and laminated sand, shale remaining section to 4893 was bottom 3 feet being very hard no shows noted in the cores or electric log. red to 4879 with only a few shows noted in a basic re- sand siltstone section. The same type formation with the light quartzitic sand. There were samples, or indicated on the

The "J" Sand, 4916 (-338) was sand grading to partly silty second bench or stringers was the best chance for production topped at 4946 was silty and porous sand with no shows in log. filled. The top was a hard tight porous sand with no shows. The sand was out in this well which was in the area. The massive sand was at the top grading to a soft sand samples or indicated on the

The well was plugged February 17, 1960 by filling it with heavy mud from the total depth to the bottom of the surface pipe (4987 - 110). A 10 sack cement plug was set in the bottom 30 feet of the surface pipe 110 to 70, then the casing was filled with heavy mud to within 20 feet of the top. A 7 sack cement plug was set in the top 20 feet of the surface pipe (32 to 12).

All measurements are taken from the kelly bushing which was approximately 9 feet above the ground.

Submitted by,



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Petroleum Geologist

GDV:sh

00599968

## CORE DESCRIPTION

Core #1      4827 to 79 - Log depth  
              4825 to 77 - Full Recovery

22' - 0" Shale dark gray to black. Few thin bentonite beds.

30" - 0" Sand gray fine silty tight, shale dark gray and siltstone gray. Slightly reworked and laminated occasional thin bed of hard tight gray sand with no show.



## BIT RECORD

<u>No</u>	<u>Make</u>	<u>Size</u>	<u>Type</u>	<u>From - To</u>	<u>Footage Drilled</u>	<u>Hours Run</u>	<u>Condition</u>	<u>Remarks</u>
1	Hughes	7 7/8	OSC-3J	115 - 3648	3533	23	Dull	
2	CP	"	ESICJ	3648 - 4462	814	11	"	
3	"	"	ESIC	4462 - 4825	363	9	"	
*	Diamond	6 5/8	Core	4825 - 4877	52	13	Not Hurt	
4	CP	7 7/8	EMV	4825 - 4878	53	2	Lost Cone	Rerun
5	Hughes	"	OWV	4878 - 4896	18	2	Bald	
6	CP	"	EMIV	4896 - 4943	47	6	"	
7	"	"	EMVS	4943 - 4986	43	6	WO	

## MUD RECORD

<u>Date</u>	<u>Depth</u>	<u>Wt</u>	<u>Vis</u>	<u>St. Vis</u>	<u>Gel. Strength</u>		<u>pH</u>	<u>Water Loss In cc</u>	<u>Wall Cake in 32nds</u>	<u>Tester</u>
2/11/60	0									Plains Mud Co.
2/14/60	3925	9.6	36	16	0	0	9.5	6	2	" " "
2/15/60	4841	9.8	102	59	3	18	9.0	5.6	2	" " "
2/17/60	4928	9.9	55	24	0	0	9.5	5.2	2	" " "



121-06880

## DRILLING TIME RECORD

From - To:

3900-50  
3950-4000  
4000-50  
4050-4100  
4100-50  
4150-4200  
4200-50  
4250-4300  
4300-50  
4350-4400  
4400-50  
4450-4500  
4500-50  
4550-4600  
4600-50  
4650-4700  
4700-50  
4750-4800

Minutes per 5-foot intervals

3-3-3-3-3-3-3-3-3-3  
3-3-3-3-3-3-3-3-3-3  
3-3-3-3-3-3-3-3-3-3  
3-3-3-3-3-3-3-3-3-3  
4-4-4-4-4-4-4-4-4-4  
4-4-4-4-4-4-4-4-4-4  
4-4-4-4-4-5-5-5-5-4  
4-4-4-4-4-4-4-4-4-4  
3-3-3-3-3-3-3-3-3-3  
4-3-3-4-4-5-6-7-6-7-  
6-5-6-5-7-5-6-8-7-8  
9-9-9-5-5-6-7-7-6-8  
10-9-9-19-8-7-7-7-8-7  
7-6-8-7-8-11-11-10-8-7  
8-6-6-5-6-7-8-8-8-7  
6-8-7-8-7-7-5-7-7-9  
8-8-6-9-8-12-7-6-6-8  
11-8-8-6-1-10-11-8-7-7

RemarksMinutes per 1-foot intervals

4800-10  
4810-20  
4820-25  
4825-30  
4830-40  
4840-50  
4850-60  
4860-70  
4870-77  
4877-80  
4880-90  
4890-4900  
4900-10  
4910-20  
4920-30  
4930-40  
4940-50  
4950-60  
4960-70  
4970-80  
4980-86

2-1-1-1-1-1-1-1-1-1  
1-1-1-1-1-1-1-1-1-1  
1-1-2-1-1\*  
21-18-15-23-20  
21-22-21-20-23-19-20-22-20-19  
20-20-22-19-18-18-15-8-10-8  
6-10-7-15-10-12-11-16-16-14  
13-11-10-10-11-14-10-13-13-9  
16-16-17-16-16-17-17\*  
2-2-4\*  
11-5-5-8-6-6-8-9-8-9  
10-6-4-5-6\*-4-10-15-16-9  
7-9-4-6-7-7-7-7-6-6  
7-6-6-7-5-3-3-1-1-1  
1-3-6-7-6-7-5-6-7-6  
5-6-6-6-5-5-6-8-11-10  
15-11-13\*-3-6-4-6-10-4-4  
5-6-9-6-5-2-3-3-3-3  
4-3-3-3-5-7-5-10-8-10  
7-10-9-8-7-8-8-5-8-10  
8-7-7-8-15-20\*

Core #1  
Core #1  
Core #1  
Core #1  
Core #1  
Core #1

(\* - Trip)

00599960

## SAMPLE LOG

3900-10	Shale dark gray
20	Same
30	Same
40	Same
50	Same
60	Same
3960	<u>Niobrara</u>
70	Same
80	Same
90	Same
4000	Same; trace shale dark gray mottled white calcareous
4000-10	Shale gray to dark gray mottled white to brown calcareous and shale dark gray
20	Same
30	Same
40	Same
50	Same
60	Same
70	Same
80	Same
90	Same
4100	Same
4100-10	Same
20	Same
30	Same
40	Same
50	Same
60	Same
70	Same
80	Same
90	Same
4200	Same
4200-10	Same
20	Same
30	Same
40	Same
50	Same
60	Same
70	Same
80	Same
90	Same
4300	Same
4300-10	Same
20	Same
30	Same
40	Same
50	Same
60	Same
4378	<u>Timpa</u>
70	Same
80	Same
90	Same; trace limestone white dense
4400	Same; slight trace ditto
4400-10	Limestone white to buff dense and shale dark gray; little calcareous shale

4410-20	Limestone white to buff dense and shale dark gray; little calcareous shale as before
4427	<u>Carlile</u>
30	Ditto and ditto
40	Ditto and ditto
50	Shale dark gray and limestone white to buff dense
60	Ditto; little ditto
70	Ditto)
80	Ditto)-----Poor dirty samples to 4590
90	Ditto) No light plant or shale shaker
4500	Ditto)
4499	<u>Greenhorn</u>
4500-10	Ditto
20	Ditto
30	Ditto; trace siltstone gray; trace limestone buff crystalline
40	Too poor to run
50	Too poor to run
60	Too poor to run
70	Too poor to run
80	Too poor to run
90	Ditto
4600	Ditto; trace siltstone gray; trace limestone white dense
4600-10	Ditto
20	Ditto
30	Ditto
40	Ditto
50	Ditto
4651	<u>Mowry</u>
60	Ditto
70	Ditto
80	Ditto; trace siltstone gray
90	Ditto; trace ditto
4700	Ditto
4700-10	Ditto
20	Ditto; trace siltstone gray
30	Ditto; trace ditto; trace limestone buff crystalline
40	Ditto; trace ditto; trace ditto
50	Ditto; trace ditto; trace ditto
60	Ditto; trace ditto; trace ditto; trace bentonite gray
70	Ditto; trace ditto; trace ditto
80	Ditto; trace limestone buff to brown crystalline
90	Ditto; trace ditto; trace siltstone gray
4800	Ditto; trace ditto
4800-05	Shale dark gray
10	Ditto; trace limestone buff crystalline
15	Ditto
20	Ditto
25	Ditto
4825 Circ. 30	
Min.	Ditto
4825 Circ. 60	
Min.	Ditto
4825-77	See Core Description
4847 (-269)	<u>"D" Sand</u>



Sample Log (Continued)

00599967

3

4880-85 Shale dark gray; trace sand gray fine hard tight, no show  
4885-90 Ditto and sand gray fine hard tight, occasional cluster fluorescence  
95 Ditto and ditto, no show  
4900 Ditto; trace ditto  
4900-05 Ditto; trace ditto  
10 Ditto  
15 Ditto  
4918 (340) "J" Sand  
20 Ditto; trace siltstone gray  
25 Ditto; trace ditto; trace sand gray fine silty tight, reworked, no show  
30 Ditto; little sand gray fine hard tight, no show  
35 Ditto; little ditto  
40 Ditto; trace ditto  
45 Ditto; trace ditto  
50 Ditto; little ditto, no show  
55 Ditto; trace ditto; trace sand gray fine soft porous, partly silty, no show  
trace chert brown  
60 Ditto; trace ditto; little ditto; trace argillite white  
65 Ditto; little sand gray fine silty tight, no show, trace argillite white  
70 Ditto and ditto  
75 Ditto; little ditto; trace argillite white  
80 Ditto; trace ditto; trace ditto  
85 Ditto; trace ditto  
4986 Circ.  
60 Min. Ditto; trace ditto; little argillite white