



ELECTRIC LOG TOPS

<u>Formation</u>	<u>Depth</u>
Niobrara	4928'
Fort Hays	4568'
Carlile	5307'
Greenhorn	5517'
Bentonite	5626'
"D" Sand	5772' (-1011)
"J" Sand	5772' (-1129)
Total Depth	5989'

DISCUSSION:

The No. 1 Meier was more than twenty low to expectations.

The "D" Sand had well developed friable sand in the lower 20 feet of section. The upper part of the sand was low in porosity - much of the sand appeared quartzitic. No shows of oil were evident in the "D" Sand.

The "J" Sand had 7 - 8 feet of the second zone well-developed without shows of oil. Schlumberger calculated the sand to have 75% water saturation.

The "J₃" Sand, 5947' - 5959', was fairly porous sand with some clay content. No shows were evident in this zone. This zone tested some oil and gas with water one location west and some 22 feet higher structurally.

The No. 1 Meier was abandoned at 5989' in the Skull Creek Shale.

Respectfully submitted,

Rolland L. Wonderly
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SAMPLE DESCRIPTION

TOP OF "D" SAND 5769' DRILLER - 5772' SCHLUMBERGER

5772 - 5800	Sandstone fine grain, subangular, white quartz very low porosity, no show and shale dark gray, very poor show
5800 - 5820	Sandstone fine grain, subround, clean, good porosity, very friable, no stain or fluorescence, very poor show.
5820 - 5900	Shale gray and silt dark gray, siliceous

TOP OF "J" SAND 5890' DRILLER - 5890' SCHLUMBERGER

5900 - 5905	(Circulating 30 minutes) Shale dark gray and gray, silts gray, siliceous, sandstone fine to medium grain, subangular, poor to fair sorting, clay material and carbonaceous material, very low porosity, no show
	(Circulating 60 minutes) as above, no show
5905 - 5920	Cavings following trip
5920 - 5930	Sandstone as above with slightly better porosity
5930 - 5940	Sandstone medium grain, white, fair sorting, subrounded to subangular, trace clay filled material, low to fair porosity, friable. No stain or fluorescence
5940 - 5950	Trace sandstone as above and shale dark gray to black
5950 - 5960	Sandstone medium grain, white, subangular, fair sorting, low porosity, clay filled, no stain or fluorescence and shale
5960 - 5970	To sandstone as above and shale
5970 - 5980	Shale dark gray
5980 - 5987	(Circulating) shale dark gray

BIT RECORD

<u>No.</u>	<u>Make</u>	<u>Type</u>	<u>Size</u>	<u>From-To</u>	<u>Feet</u>	<u>Hours</u>
1	Hughes	OSC-3A	7-7/8	130-3349	3219	17
2	Reed	YT-3	7-7/8	-4115	866	11
3	Reed	YT-3	7-7/8	-4967	852	11
4	Reed	YT-3	7-7/8	-5663	696	10
5	Reed	YT-L	7-7/8	-5806	143	6
6	Hughes	OWV	7-7/8	-5905	99	6
7	Reed	YS-L	7-7/8	-5988	73	5

STRAIGHT HOLE SURVEYS

Depth

1600'
2578'
3041'
3349'
4115'
4967'

Deviation

1/4
1 1/4
1 1/2
3/4
1 3/4