



MISCELLANEOUS DATA

Well	#1 Miller-Gillham
Location	NE NE Section 20, 10N-52W Logan County, Colorado
Elevation	4162 Gr., 4170 K.B.
Commenced	11-20-61
Surface Casing	8-5/8" @ 188' with 150 sacks
Cores	None
Drillstem Tests	1: "J" Sand
Logs	Lane-Wells: Induction & Microlog
Completed	11-28-61
Status	D & A

FORMATION TOPS - ELECTRIC LOG

Niobrara	3958	
Carlile	4340	
Greenhorn	4528	
Bentonite	4726	
"D" Sand	4842	(- 672)
"J" Sand	4964	(- 794)
"N" Sand	5164	(- 994)
"O" Sand	5211	(-1041)
Total Depth	5272	(5268 Driller)

BIT RECORD

<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>From</u>	<u>To</u>
1	6 3/4	HTC	OSC-3J	188	3180
2	6 3/4	HTC	OSC-3	3180	4380
3	6 3/4	HTC	OSC-3	4380	4862
4	6 3/4	HTC	OWV	4862	4996
5	6 3/4	HTC	OWV	4996	5029
6	6 3/4	HTC	OWC	5029	5177
7	6 3/4	HTC	OWC	5177	5268

DRILLSTEM TESTS

#1 5026-33 (Log Neas) Open 2 hours, steady weak blow throughout test, recovered 30' muddy water, 775' water.
30 min ISI - 1285#, FP - 65 - 370#, 30 min PSI - 1242,
pressure below bottom packer bled to 1800#, IH - 2594, FH - 2572

FORMATION DESCRIPTION

3900-3958	Shale, black.
3958-4290	Shale, dark gray & light gray, speckled with lime inclusions.
4290-4340	Limestone, white, dense with shale stringers.

4340-4528	Shale, black, fossiliferous.
4528-4570	Limestone, gray, glauconitic.
4570-4580	Limestone, tan, medium crystalline.
4580-4730	Shale, dark gray, bentonitic with 4' bentonite bed at base.
4730-4842	Shale, dark gray.
4842-4846	Sandstone, white, fine grained, angular, friable, fair-good P&P, no show.
4846-4904	Shale, black with thin stringers of sandstone, white, fine grained, silty & partially clay-filled, poor P&P, no show.
4904-4964	Shale, black, locally silty.
4964-4970	Siltstone, black with sandstone, gray, silty, tight, no show.
4970-4980	Sandstone, white, fine grained, some clay-filling, poor P&P, spotty fluorescence & scattered light stain in top.
4980-5002	Shale & siltstone, black.
5002-5010	Sandstone, white, fine grained, generally clean, fair P&P, no show.
5010-5024	Sandstone, gray, very fine grained, silty, tight, with siltstone stringers.
5024-5034	Sandstone, tight gray, fine grained, clay filled, poor P&P, no show.
5034-5036	Siltstone, dark gray.
5036-5040	Sandstone, gray, fine grained, "salt & pepper", with carbonaceous partings, poor-fair P&P, no show.
5040-5046	Sandstone, as above, but silty, tight.
5046-5078	Shale, black.
5078-5096	Siltstone, dark gray.
5096-5164	Shale, black, locally silty.
5164-5176	Siltstone, gray, sandy.
5176-5211	Shale, black, silty.
5211-5232	Sandstone, light gray, fine grained, angular & white, medium grained, fair P&P, no show.
5232-5252	Siltstone, gray, sandy.
5252-5272	Sandstone, as above, cleaner, good P&P, no show.

10' DRILLING TIME

3900-4000	5-5-5-5-5-5-7-7-8-8
4000-4100	7-7-7-6-9-8-7-8-8-7
4100-4200	8-8-7-8-7-6-5-5-5-5
4200-4300	6-6-6-5-6-6-7-7-10-12
4300-4400	15-13-8-8-11-12-14-14-11-9
4400-4500	9-10-11-10-12-12-13-14-10-8
4500-4600	10-10-11-11-10-15-11-11-10-9
4600-4700	7-8-10-15-17-20-20-14-12-9
4700-4800	10-10-10-10-10-10-9-10-10-14
4800-4830	14-13-12

5' DRILLING TIME

4830-4850	24-15-15-25
4850-4900	32-36-28-20-18-22-23-25-24-25
4900-4950	20-15-15-15-13-12-14-22-32-35
4950-5000	29-20-24-38-25-26-18-20-20-23
5000-5050	45-30-40-26-25-75-17-15-25-45
5050-5100	42-47-45-38-35-40-40-42-37-25
5100-5150	33-32-25-25-30-27-31-24-26-22
5150-5200	20-23-22-26-25-26-12-21-24-20
5200-5250	35-21-31-37-39-28-27-25-30-35
5250-5265	50-36-45

REMARKS

Formation samples of this well showed porosity in the top of the "D" Sand, in three zones of the "J", and in two zones of the "Q" Sand. The only show present was spotty stain and fluorescence in the upper "J" interval, indicated to be at 4970-74, log measurements.

The electric logs showed a questionable zone to be present in the "J" Sand from 5024-34; this was drillstem tested with a recovery of 805' of water, with no shows of oil or gas.

W. M. Tobison

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Petroleum Geologist
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