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WELL RECORD

123-05640

22-9N-57W

Deflection survey with Eastman Survey Instrument.

Depth	Deflection	Depth	Deflection
500	$\frac{1}{2}$ degree	3000	0 degree
1000	0 "	3500	$\frac{3}{4}$ "
1500	$\frac{1}{4}$ "	4000	1 "
2000	$\frac{3}{4}$ "	4500	$1\frac{1}{4}$ "
2500	0 "	5000	1 "
		5500	1 "

Coring Program: Coring done with Drilling and Services diamond core barrel with 8 3/4" diamond head.

Core no. 1 6108-6120. Recovered 12'

Core no. 2 6120-6124. No Recovery

Formation Tests: Formation testing done by M. O. Johnston Testers, Inc.

DST 6116-6124. One packer failed. Recovered 240' drilling mud.

DST 6113-6124. Two packers. Tool plugged. Recovered 60' drilling mud.

DST 6114-6124 $\frac{1}{2}$. Two packers. Packers failed.

2 hr. DST 6107-6125. Two packers. Recovered 600' drilling mud slightly gas out and show of oil in bottom of mud column.

2 hr. DST 6127-6130. One packer. Recovered 690' fresh water.

Logging Survey: Well log run by Schlumberger Well Surveying Corp. Log run 10-8-52 to 6052'.

Bit Record:

Surface hole made with 15" Reamer Tryend.

No.	Size	Type	Serial	Out	Feet	Hours	Wt. lbs.	RPM	Pump psi
1	9	HTC-OSC-3	78319	2418'	2194'	30	All	145	400
2	"	HTC-OSC-3	91173	3221'	803'	16	20,000	145	700
3	"	HTC-OSC-3	99362	3781'	560'	24	"	85	800
4	"	HTC-OSC-3	99355	4370'	589'	18	"	"	"
5	"	HTC-OSC-3	99411	5031'	661'	28	"	"	"
6	"	HTC-OSC-3	99360	5529'	460'	25	"	"	"
7	"	HTC-OSC-3	78345	5729'	200'	24	"	"	"
8	"	HTC-OSC-1	86775	6052'	323'	30	"	"	"
9	"	HTC-OSC-1	99824	6130'	86'	24	"	"	"

Mud Record:

Wyo-gel 104,000 lbs.
 Megophos 325 lbs.
 Soda Ash 170 lbs.
 Caustic Soda 75 lbs.
 Quebracho 400 lbs.



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DRILL STEM TESTS

DST 6116-6124 One packer.
 $\frac{1}{2}$ " bottom choke
Good blow immediately. Packer failed.
Recovered 240' drilling mud.

DST 6113-6124 Two packers.
 $\frac{1}{2}$ " bottom choke
Weak blow diminishing to no blow. Tool plugged.
Recovered 60' drilling mud.

DST 6114-6124 $\frac{1}{2}$ Two packers.
 $\frac{1}{2}$ " bottom choke
packers failed.

2 hr. DST 6107-6125 Two packers.
 $\frac{1}{2}$ " bottom choke
Weak blow increasing to strong blow, diminishing at end of two hour test.
Recovered 600' oil and gas cut heavy drilling mud. The oil was in the
bottom part of the mud column.

2 hr. DST 6127-6130 One packer.
 $\frac{1}{2}$ " bottom choke
Good blow throughout test.
Recovered 690' fresh water.

CORE DESCRIPTION

Core no. 1 6108-6120 Recovered 12'

- 6" Shale, dark gray, lamina of yellow to brown bentonite at base. No show.
- 6" Sand, fine grained, gray to black, well cemented with shale, vertical fractures. Faint gas odor on fresh break. No show of oil.
- 3' Sand, fine grained, gray to brown, tightly cemented, vertical fractures, pelecopods and carbonaceous material. Fair gas odor on fresh break. No show of oil.
- 1' Sand, fine grained, gray, cross-bedded with laminae of shale in bedding planes. This zone has good show of gas and oil on outside of core. Good odor on fresh break. Vertical fractures.
- 2' Shale, black, sandy, vertical fractures. Slight gas odor.
- 1' Shale, black. No show.
- 6" Shale, gray to black, contains sandy nodules. No show.
- 6" Shale, gray, laminae of brown bentonite. No show.
- 3' Shale, gray to black. No show.

Core no. 2 6120-6124 Recovered 0'

No sand in samples.

Lost circulation at 6123½'. Lost about 1000 barrels of drilling mud.

Coring Time

Core no. 1 6108-6120

No.	Depth	Time/ft. (mins.)	Wt. lbs.	RPMS	Pump strokes 42 per min.
	6108				
1	09	48	6,000	50	
2	10	42	15,000	60	
3	11	32	"	70	
4	12	20	"	"	
5	13	14	"	"	
6	14	22	"	"	
7	6115	28	"	"	
8	16	29	"	"	
9	17	25	"	"	
10	18	28	"	"	
11	19	30	"	"	
12	6120				

Core no. 2 6120-6124

	6120				
1	21	56	10,000	60	
2	22	42	"	"	
3	23	44	"	"	
4	24	50	14,000	"	
5	25				

DRILLER'S LOG

JAMES P. SLOSS

No. 3 G. L. Wickland

100' east of center SE/4-NE/4-NW/4 Sec. 22, T. 9 N., R. 57 W.

Weld County, Colorado

Contractor: Nebraska Drillers, Inc.

Elevation Kelley Bushing 4658'

Elevation Ground 4648'

Spudded: September 27, 1952

Completed: October 13, 1952

Status: Dry hole. Plugged October 13, 1952, by Rocky Mountain Cementers.

Bottom plug 30 sacks; 6055-6130 (75')

Top plug in surface casing 15 sacks; surface-30' (30')

Casing Record: 214' of 10 3/4" by 32.75 lbs./ft. set at 225' with 175 sacks of regular Ideal cement by Halliburton.

Depth	Formation
Surface	
225	Surface sand, gravel, clay, shale
2898	Shale
3425	Shale, sand
3615	Shale
4928	Shale, sand
5335	Shale
5480	Sandy shale
5729	Shale, lime
5775	Sandy shale
5853	Shale, shells
5946	Shale, lime
6035	Sand, shale
6050	Sand
6108	Sand, shale
6108-6120	Core no. 1 Recovered 12'
6120-6124	Core no. 2 Recovered 0'
	Lost circulation at 6129½'. Lost about 1000 barrels drilling mud.
6130	Sand
6130	Total Depth

SAMPLES

Interval	Description
Surface	
100	Sand, fine grained, tan
120	Sand, fine to medium grained, tan
170	Sand, medium to coarse grained, tan
1000	Shale, silty, gray
1870	missing
1930	Shale, dark gray
2110	Shale, dark gray; streaks of sand, fine grained, white with black spots; streaks limestone, brown with black spots
2410	missing
2890	Shale, gray, silty; sand fine grained, gray to white with black spots; streaks of limestone
3100	missing
3300	Shale, gray; sand fine grained, gray to white with black spots; some sand with glauconite and some pyrite
3880	missing
4180	Shale, gray with streaks of fine grained sand white with black spots and some glauconite.
5000	missing
5030	Shale, gray
5200	missing
5250	Shale, gray, black spots, little pyrite
5290	Shale, gray to tan with buff and black spots. <u>Top of Michrara 5250</u>
5310	Shale, gray with buff and black spots. Appears to be lighter color than above.
5320	Shale, dark gray, with black spots
5400	Shale, light brown, with buff and black spots; pyrite
5530	Shale, gray with some pyrite
5570	Limestone, white, hard, microfossils. <u>Top of Timpa 5521</u>
5580	Limestone, gray to white, chalky
5590	Sand, fine grained, brown, glauconitic. <u>Top of Codell 5561</u>
5690	Shale, gray, streaks of glauconitic sand and some pyrite
5730	Limestone, brown, grainy. <u>Top of Greenhorn 5700</u>
5760	Shale, dark gray, appears to contain iron concretions and has some pyrite
5840	Shale, gray with black spots and some pyrite
5870	Shale, gray to brown, some streaks brown limestone, grainy appearance; streaks of bentonite
5930	Shale, dark gray
5940	Bentonite appears to be increasing, limy
6028	Shale, dark gray to black;
6045	Sand, fine to medium grained, gray to white, very tight, well cemented, <u>no show. Top of Muddy "D" sand 6028</u>
6055	Sand, fine to medium grained, gray to white with large grains of glauconite, well cemented. <u>No show</u>
6108	Shale, black with streaks gray sand, bentonite, and some pyrite
6120	Core no. 1
6124	Core no. 2
6130	Sand, medium to coarse grained, well rounded, good flour. <u>Show. Top of "J" sand 6125</u>

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SCHLUMBERGER TOPS

Niobrara	-592'	5250'
Timpas	-863'	5521'
Codell	-903'	5561'
Greenhorn	-1042'	5700'
Muddy "D"	-1370'	6028'
		Sample Top
"J" sand	-1467'	6125'