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G E O L O G I C A L R E P O R T COLO. OIL & GAS CONS. COMM.

on

J. W. NYLUND - #1 SMART
NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 10, T 2 N - R 56 W
MORGAN COUNTY, COLORADO

MISCELLANEOUS DATA

Commenced 7-20-81
Completed 7-26-81
Status D & A
Elevations *4300'* 4320' Gr., 4328' K.B. *4330'*
Surface Casing 8-5/8" @ 171' K.B. with 125 sacks
Drillstem Tests 1: Liberty
Logs Schlumberger: SFL & G.R. Density
Contractor Pedco

DVR	
FJP	
HHM	✓
JAM	✓
JJD	✓
RLS	
CGM	

FORMATION TOPS - ELECTRIC LOG

Niobrara 4292'
Fort Hays 4618'
Carlile 4668'
Bentonite 4997'
"D" Sand 5092' (-764)
"J" Sand 5167' (-839)
Total Depth 5297' (5250' Driller)

BIT RECORD

No.	Size	Make	Type	From	To
1	7-7/8"	STC	DTJ	171'	2856'
2	7-7/8"	STC	SDS	2856'	4624'
3	7-7/8"	Reed	FP12	4624'	5143'
4	7-7/8"	Reed	Y21G	5143'	5250'

DRILL STEM TEST

DST #1 5100'-5105' (Log measurements). Open 10 min., gas to surface in 2 min., maximum 1,223 MCF, SI: 30, open 60 min., built to 1,223 MCF in 6 min., 1,462 MCF in 20 min. (26 PSI on 1 $\frac{1}{4}$ " orifice) decreased to 24 PSI in 37 min. (1,388 MCF) with spray of mud, 22 PSI at end of flow, (1,316 MCF) still spray of mud. Recovered 600' water, FP #1: 563-789#, SI #1: 818#, FP #2: 727-745#, 30 min. FSI: 818#, Hydrostatic: 2760-2688#. Bottom packer held. Sample chamber recovered 150 cc water.

SAMPLE DESCRIPTION

- 5050-5092' Shale, black, fissile.
- 5092-5095' Sandstone, gray, fine grained, silty, no shows.
- 5095-5098' Shale, black, silty.
- 5098-5101' Sandstone, dark gray, fine and medium grained, angular some clay, indicated tight, patchy fluorescence.
- 5101-5110' Sandstone, tan, medium grained, friable, light irregular fluorescence; indicated permeable from 5101-5106'.

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- 5110-5131' Siltstone and shale members.
- 5131-5167' Shale, black, silty in lower 18'.
- 5167-5171' Sandstone, fine grained, silty, no shows with siltstone stringer in basal 2'.
- 5171-5180' Sandstone, gray, fine grained, angular, considerable silt, no shows.
- 5180-5186' Siltstone, dark gray.
- 5186-5200' Sandstone, light gray, fine grained, angular, permeable, no shows.
- 5200-5204' Shale, black, silty.
- 5204-T.D. Sandstone, white, medium grained, subround, considerable clay-filling, no shows.

REMARKS

Structural position of this well was satisfactory. Fluorescence was present in samples of the second member of the "D" sand. A one hour drillstem test of this zone recovered gas with 600' of water and the well was plugged.

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