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—
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FEB 5 1979

COLD. OIL & GAS CONS. COMM.



GEOLOGICAL COMPLETION REPORT

BEREN CORPORATION
#1 CASE
SW NE SECTION 14-T8N-R50W
LOGAN COUNTY, COLORADO

R. E. Maresh
January 11, 1979

14-8N-50W
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COLO. OIL & GAS CONS. COMM.

C O M P L E T I O N D A T A

Spudded: January 7, 1979

Completed: Plugged and Abandoned - January 10, 1979

Contractor: Exeter Drilling Company - Rig #13

Elevation: 4312' Ground
4321' Kelly BushingTotal Depth: 4560' By Driller
4571' By Schlumberger

Surface Casing: 8-5/8" casing cemented at 394' with 380 sacks.

Sample Interval: 30' samples from 3500' to 4300'
10' samples from 4300' to 4370'
5' samples from 4370' to 4560' T.D.

Drilling Time: Recorded by Geolograph at 1' intervals.

Cores: None

Drillstem Tests: Sample examination and electrical log interpretation did not warrant a test.

Schlumberger Induction-Laterolog run from 395' to 4565'

Detailed Log run from 3400' to 4565'

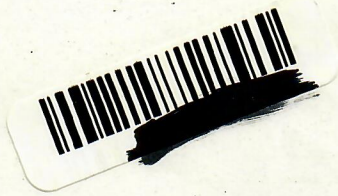
Formation Density-Gamma Ray Log run from 4150' to 4552'

Formation Tops:

	<u>Sample</u>	<u>Schlumberger</u>	<u>Datum</u>
Cretaceous			
Pierre			
Niobrara	3540	3540	± 781
Fort Hays	3870	3873	± 448
Codell			
Carlile	3930	3937	± 384
Greenhorn	4150	4170	± 151
Bentonite		4283	± 38
D Sand	4363	4373	- 52
J Sand	4480	4493	- 172
Total Depth	4560	4571	

DVR	
FJP	
HHM	
JAM	✓
JJD	✓
RDS	
COM	

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COLO. OIL & GAS CONS. CO., INC.

CHRONOLOGICAL HISTORY

1/7/79 Spudded 4:30 pm. Drilled to 394'. Cemented 8-5/8" casing at 394' with 380 sacks. WOC 1-1/4 hours. Day's footage 394'.

1/8/79 WOC 5-1/4 hours. Drilling 394' to 3223' with Bit #1. Day's footage 2829'.

1/9/79 Drilling 3223' to 4402'. Made trip for Bit #2 at 3843'. Day's footage 1179'.

1/10/79 Drilling 4402' to 4560' Total Depth (Driller). Ran Schlumberger Logs. Day's footage 158'. Well Plugged and Abandoned.

BIT RECORD

<u>Trip No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Serial</u>	<u>Depth From - To</u>	<u>Feet</u>	<u>Hours</u>
	12-1/4"	Smith	DT-J	RR	C - 394	394	
1	7-7/8"	HTC	OSC3AJ	KC774	394 - 3843	3449	23-1/4
2	7-7/8"	Smith	DT-J	355TN	3843 - 4561	718	19-1/4



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SAMPLE RESUME

D & J SANDS

(Not corrected for lag or log depth)

- 4300 - 4380 shale, grey, soft, with silt and bentonite
- 4385 shale, (do); trace to 5% sand, grey, very fine-
fine, clean, very little clay, fair porosity, no
show; slight trace sand, tan, very fine, grading
to siltstone, tight, no show
- 4390 shale, (do); 5% sand, (do), no show
- 4395 shale, (do); 20% sand, (do), becoming slightly
dirty with increase in clay, no show
- 4400 shale, (do); 5 to 10% sand, (do); 20 to 30% sand,
grey, very fine, clay filled, slightly dirty, soft,
poor with some fair porosity, no show
- 4410 shale, (do); trace sand, (do); 10-20% sand, (do)
- 4415 shale, (do); 30% sand, grey, very fine, some silty,
dirty, clay filled, soft, poor porosity, no show
- 4420 shale, (do); 10-20% sand, (do); trace cleaner sand,
as above, no show
- 4430 shale, (do); 5% sand, (do), no show; trace to 5%
sand, very fine to silty, very dirty, tight, no
show; much silt
- 4435 shale, grey to dark grey, soft to slightly hard,
fissil; trace sand, (do); trace sand, (do)
- 4440 shale, (do); trace sand, cavings?
- 4490 shale, (do); with silt and bentonite, some pyrite
- 4500 shale, (do); slight trace to trace sand, grey,
very fine, very slightly dirty, glassy, poor to
no porosity, no show
- 4505 shale, (do); trace to 5% sand, (do), becoming
dirtier with clay matrix, poor porosity, no show
- 4515 shale, (do); trace to 5% sand, (do), less clay with
increase in porosity, no show
- 4520 shale, (do); 5-10% sand, (do), no show; trace to
5% sand, grey, very fine to silty, grading to silt-
stone, tight, no show; much bentonite
- 4525 shale, (do); 5-10% sand, (do), no show
- 4530 shale, (do); trace to 5% sand, (do), no show; trace
sand, very fine to silty, as above, no show; much
bentonite
- 4535 shale, (do); trace sand, (do), no show
- 4540 shale, (do); traces silt and bentonite; few clusters
of sand, (large), are cavings?
- 4560 shale, (do); traces silt and bentonite
Circ. 4560 (15 minutes) shale, (do); no developed sand
(30 minutes) shale, (do); no developed sand

4560

Total Depth



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DRILLING TIME

10' Intervals: (Minutes)

3500 - 3600	3-4-4-4-5/5-4-5-4-5
- 3700	5-6-6-5-6/6-6-6-5-6
- 3800	6-6-5-5-5/5-5-5-5-6
- 3900	7-6-4-7- /5-5-7-7-8
- 4000	8-7-7-5-3/4-3-4-4-4
- 4100	5-5-4-6-6/6-6-8-7-5
- 4200	6-6-7-7-8/9-9-10-7-6
- 4300	8-8-10-8-8/6-5-6-6-6
- 4350	7-7-7-8-9

1' Intervals: (Minutes)

4350 - 4360	1- $\frac{1}{2}$ - $\frac{1}{2}$ -1- $\frac{1}{2}$ / $\frac{1}{2}$ -1-1- $\frac{1}{2}$ - $\frac{1}{2}$
- 4370	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -2-1/2-2-2-1-2
- 4380	2-1-2-2-2/3-2-1- $\frac{1}{2}$ - $\frac{1}{2}$
- 4390	1-2-1-2-1/2-2-2-1-2
- 4400	3-2-3-2-3/2-1-3-1-2
- 4410	3-2-2-3-2/1-2-3-2-3
- 4420	2-2-2-1-2/1-2-2-2-2
- 4430	1-1-2-2-2/2-1-1-1-1
- 4440	1-1-1-3-2/2-2-3-2-2
- 4450	2-2-2-2-2/2-2-1-2-1
- 4460	1-1-1-4-3/2-2-4-1-3
- 4470	3-3-3-3-6/3- -3-5-2
- 4480	4-4-4-7-5/3-3-2-3-2
- 4490	3-4-6-5-6/6-6-7-7-6
- 4500	7-7-6-5-5/4-3-3-5-
- 4510	6-5-8-4-4/6-5-4-5-5
- 4520	5-6-5-6-5/5-7-5-6-6
- 4530	7-6-6-6-5/9-12-10-5-6
- 4540	7-5-5-5-5/5-5-6-5-5
- 4550	6-5-5-7-7/8-7-7-5-5
- 4560	7-7-7-7-6/7-9-2-4-5

4560

Total Depth