

Return to
Braden Drilling

G E O L O G I C A L R E P O R T

F. G. WRIGHT DONATION

Braden Drilling, Inc. ✓

Devlin # 1 ✓

1996

Gen. SW SE Section 11-28-13w ✓

~~Bratt~~ County, Kansas

GEOLOGICAL REPORT

Drilling Contractor: Braden Drilling
Drilling Commenced: Oct. 8, 1965 ✓
Drilling Completed: Oct. 23, 1965

Braden Drilling, Inc.
1 Devlin
Cen. SW SE Sec. 11-28-13w ✓
Pratt County, Kansas

Gentlemen:

Following is the geological report on the above captioned well. Samples were examined from 3600 feet to the total depth. The writer supervised the well from 3600 feet to the total depth. All measurements were taken from the Kelly Bushing.

Elevation: 1905' K.B. 1900' G.L.
Surface Pipe: 13 3/8" @ 211' with 300 sacks.
8 5/8" @ 766' with 425 sacks.

Formation Summary

Log Depths & Datum

Heebner	3631 (-1726)
Toronto	3645 (-1740)
Douglas	3671 (-1766)
Brown Lime	3819 (-1914)
Lansing	3836 (-1931)
Base-Kansas City	4191 (-2286)
Mississippian	4279 (-2374)
Viola	4359 (-2454)
Simpson Shale	4422 (-2517)
Simpson Sand	4450 (-2545)
Arbuckle	4536 (-2631)
Total Depth	4559 (-2654)

Sample Descriptions & Tests

Lansing

3875 - 3885 Limestone; buff, fossiliferous, chalky in part, fair vugular and intercrystalline porosity, scattered light stain, show of free oil, fair odor.

Drill Stem Test # 1 3875 - 3884'. Tool open 70 min. Gas surfaced in 25 min. Recovered: 50 ft. heavily oil and gas cut mud, 120 ft. Muddy, gassy oil, 180 ft. clean gassy oil, 40 ft. salt water.
Initial Flow Pressure: 62 psi.
Final Flow Pressure: 177 psi.
Initial Shut-in Pressure: 1326 psi. (30 min.)
Final Shut-in Pressure: 981 psi. (30 min.)

Log calculates 15% porosity and 45% water saturation.

- 3898 - 3902 Limestone; cream, very chalky, poor visible porosity, no shows.
- 3944 - 3954 Limestone; cream to buff, fossiliferous, slightly cherty, chalky, slight visible porosity, no shows.
- 4010 - 4015 Limestone; cream, slightly fossiliferous, very chalky, spotted pinpoint porosity, no shows.
- 4028 - 4032 Limestone; buff, oolitic, slightly chalky, good oolitic porosity, no shows.
- 4058 - 4070 Limestone, cream, oolitic and chalky, fair to good oolitic porosity, no shows.
- 4098 - 4104 Limestone; cream, chalky, spotted, pinpoint porosity, no shows.
- 4134 - 4139 Limestone; cream, very chalky, no shows.
- 4145 - 4151 Limestone; cream to buff, chalky in part, slightly fossiliferous, fair porosity, light spotted staining, mostly barren.

Log calculates 10% porosity and 85% water saturation.

Mississippian

- 4279 - 4294 Chert; white, mostly fresh to slightly tripolitic, spotted vugular porosity, scattered dark stain.

Log calculates 13 - 15% porosity and 59 - 61% water saturation.

Viola

- 4359 - 4387 Chert; white, tan, mostly fresh to slightly tripolitic, spotted vugular porosity and dark staining, slight show of free oil, faint odor.

Drill Stem Test # 2 4356 - 4390'. Tool open 70 min. Fair steady blow. Recovered 50 ft. gas cut mud.
Initial Flow Pressure: 19 psi.
Final Flow Pressure: 28 psi.
Initial Shut in pressure: 497 psi. (30 min.)
Final Shut-in pressure: 286 psi. (30 min.)

Simpson

4427 - 4433 Dolomite; cream to light gray, medium crystalline, sandy, compact, slightly shaley and chalky, no shows.

4433 - 4441 Sandstone; clear to light gray, med-coarse grain, subrounded to subangular, slightly dolomitic and cemented, friable in part, spotted porosity and light staining, show of free oil, faint odor.

Drill Stem Test # 3 4435 - 4442'. Tool open 70 min. Weak, decreasing blow thruout test. Recovered 40 ft. mud with few oil spacks.
Initial Flow Pressure: 9 psi.
Final Flow Pressure: 19 psi.
Initial Shut-In Pressure: 248 psi. (30 min.)
Final Shut-In Pressure: 133 psi. (40 min.)

Log calculates 8 $\frac{1}{2}$ % porosity and 80% water saturation.

4450 - 4456 Sandstone; clear, fine to medium grain, subrounded, spotted porosity, light staining, show of free oil, fair odor.

Drill Stem Test # 4. 4442 - 4456'. Tool open 1 hr. 40 min. Very weak, steady blow. Recovered 110 ft. muddy salt water, few oil spacks.
Initial Flow Pressure: 9 psi.
Final Flow Pressure: 57 psi.
Initial Shut-In Pressure: 1493 psi. (30 min.)
Final Shut-In Pressure: 1465 psi. (40 min.)

Arbuckle

4536 - 4543 Dolomite; tan, gray, med-coarse crystalline, partly oolitic and cherty, scattered vugular and oolitic porosity, spotted light stain, no free oil, faint odor.

Log calculates 9 - 10% porosity and 75-82% water saturation.

Rotary Total Depth 4555'.

Ran Electra Radiation-Accurlog to 4559' (Log measurements are 4 feet deeper than the drillers and are used in this report.)

Plugged & Abandoned.

Very truly yours,

Lee Poulsen

Lee Poulsen

LP:ch

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DRILLING TIME LOG

<u>DEPTH</u>	<u>TIME</u>	<u>REMARKS</u>
3200 - 3210	1-2-2-2-2	2-2-2-2-2
3220	2-2-2-2-2	3-2-2-2-3
3230	2-2-1-1-1	1-2-1-1-1
3240	2-2-1-1-1	1-1-2-1-1
3250	2-1-2-1-1	1-2-3-2-2
3260	1-1-1-1-1	2-1-1-2-2
3270	2-2-2-1-1	1-1-1-1-1
3280	2-3-3-3-3	3-4-3-3-3
3290	2-2-2-2-2	1-2-3-2-2
3300	3-3-3-4-4	3-4-4-3-4
3300 - 3310	4-4-2-2-2	2-2-2-2-2
3320	2-2-3-3-4	2-2-3-2-2
3330	2-2-2-2-1	1-1-2-1-1
3340	2-2-1-2-2	2-1-1-1-1
3350	1-1-1-1-2	2-2-1-1-1
3360	2-1-2-3-3	3-2-2-2-3
3370	3-4-4-4-5	4-5-4-5-3
3380	2-3-4-2-2	2-2-2-3-4
3390	2-1-2-2-3	3-1-3-2-4
3400	3-2-2-2-2	3-2-4-4-3
3400 - 3410	2-2-1-2-1	1-1-2-2-2
3420	3-3-3-4-4	2-1-2-1-2
3430	1-1-1-1-2	2-1-1-1-1
3440	1-1-1-2-2	2-2-2-1-1
3450	1-1-2-1-2	2-2-2-2-1
3460	2-2-1-2-1	2-2-2-2-2
3470	2-2-2-1-2	2-2-2-2-2
3480	2-2-2-3-2	3-2-3-3-5
3490	5-5-4-4-4	6-6-6-6-5
3500	4-4-4-5-5	6-5-5-6-6
3500 - 3510	6-6-6-6-6	6-7-7-8-7
3520	2-3-4-4-3	4-3-3-3-3
3530	3-3-3-2-4	3-3-3-4-2
3540	1-2-2-2-2	2-2-2-2-3
3550	3-2-4-2-1	3-2-2-3-4
3560	3-3-3-3-3	4-4-3-2-1
3570	2-2-2-1-2	1-1-2-2-2
3580	2-3-2-3-2	3-2-4-3-2
3590	2-2-2-3-3	3-4-5-4-2
3600	2-1-2-1-1	3-1-2-1-2

Trip @ 3510'

Erden Drilling, Inc. # 1 Devlin
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 Pratt County, Kansas
 Drilling Time Log

<u>DEPTH</u>	<u>TIME</u>	<u>REMARKS</u>	
3600 - 3610	2-2-3-3-3	1-2-2-2-2	
3620	3-2-3-2-3	2-2-2-2-2	
3630	2-5-4-5-3	3-4-5-5-3	
3640	1-2-2-2-1	3-4-5-1-4	
3650	2-2-2-3-4	3-3-2-2-2	
3660	1-2-2-2-2	4-3-3-2-2	
3670	2-2-3-2-3	2-2-1-1-2	
3680	3-2-2-2-2	2-3-2-2-2	
3690	2-3-3-3-2	2-2-2-2-2	
3700	1-2-2-2-3	1-2-1-1-2	
3700 - 3710	1-3-3-2-1	2-2-2-2-2	
3720	2-2-2-2-3	1-1-2-2-1	
3730	2-3-2-2-2	3-2-2-3-3	
3740	3-2-3-3-3	3-3-3-3-3	
3750	4-3-4-3-3	3-3-3-3-4	
3760	4-5-3-3-3	3-2-2-2-1	
3770	2-2-2-2-2	4-2-2-4-2	
3780	2-2-6-4-3	1-1-1-2-2	
3790	1-3-2-3-2	1-2-2-2-2	
3800	2-2-2-2-5	6-5-5-4-6	
3800 - 3810	5-5-4-4-5	5-5-5-4-5	
3820	6-5-5-4-5	6-9-6-8-9	
3830	9-6-5-4-7	6-5-5-5-6	
3840	3-4-4-8-11	12-11-9-9-10	
3850	8-11-10-8-8	5-6-9-9-10	
3860	9-9-10-11-10	9-9-10-10-10	
3870	11-10-11-8-6	10-9-9-9-12	
3880	11-12-8-7-7	5-6-6-6-6	Circ. Samples & DST #1
3890	4-4-6-5-4	6-10-9-8-7	
3900	7-7-4-2-4	4-6-5-5-4	
3900 - 3910	7-5-5-6-7	4-6-5-5-6	
3920	6-6-6-6-7	5-8-7-6-8	
3930	6-8-9-8-12	7-12-12-12-10	
3940	10-9-14-9-9	8-7-8-7-7	
3950	5-5-4-2-2	2-3-3-2-2	
3960	4-5-5-3-5	6-7-4-4-2	
3970	5-3-3-2-3	3-5-5-6-4	
3980	5-4-4-4-8	12-5-4-4-6	
3990	4-4-2-2-3	2-3-4-5-7	
4000	9-7-5-5-7	9-11-13-14-13	Trip @ 4000'
4000 - 4010	3-5-5-4-4	5-4-4-2-2	
4020	2-3-2-5-5	7-4-5-4-5	
4030	7-6-3-4-5	3-4-6-5-5	
4040	2-4-5-6-6	7-7-8-3-4	
4050	5-3-5-3-6	5-2-3-2-5	
4060	5-4-5-4-4	2-4-1-2-2	
4070	2-1-2-3-3	2-3-4-5-4	
4080	5-6-5-5-5	7-7-7-5-8	
4090	6-5-5-7-7	7-7-4-5-5	
4100	3-5-8-7-6	6-8-7-8-9	

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<u>DEPTH</u>	<u>TIME</u>	<u>REMARKS</u>
4100 - 4110	8-7-8-5-5	6-7-10-8-7
4120	8-9-10-6-7	6-10-9-7-8
4130	7-8-8-10-9	8-8-6-6-10
4140	5-5-7-4-6	9-11-12-8-8
4150	8-8-5-4-5	5-6-8-6-8
4160	9-9-8-10-10	10-10-8-12-9
4170	10-6-10-10-12	4-6-4-9-5 Trip @ 4165'
4180	5-6-6-6-6	5-6-6-3-6
4190	5-5-6-5-7	5-8-5-4-3
4200	3-4-4-4-4	5-4-2-3-6
4200 - 4210	7-5-8-5-4	7-5-7-7-7
4220	10-8-6-6-6	6-6-7-5-7
4230	7-7-5-6-9	6-9-5-9-6
4240	6-5-4-3-4	5-6-5-9-9
4250	6-6-6-10-7	4-6-6-8-6
4260	6-6-6-6-8	13-8-7-7-5
4270	8-8-8-8-8	10-12-7-4-3 Trip @ 4267'
4280	3-5-4-4-4	4-3-3-3-4
4290	3-4-3-4-4	3-4-3-3-4
4300	7-8-7-7-8	8-8-9-10-10
4300 - 4310	10-10-6-8-15	13-10-5-4-5
4320	3-3-3-3-4	4-4-3-4-4
4330	4-4-4-5-5	5-7-4-7-6
4340	7-8-16-21-13	10-9-11-13-8 Trip @ 4334'
4350	10-7-8-6-6	8-7-7-8-7
4360	8-8-7-8-9	9-9-5-6-5
4370	4-4-4-4-4	5-5-1-3-3
4380	4-3-4-4-3	4-4-4-3-4
4390	4-4-4-5-5	5-4-3-3-4 Circ. Samples DST #2
4400	5-8-7-9-9	8-10-10-11-10
4400 - 4410	10-11-11-12-10	13-11-13-11-11
4420	10-10-11-10-9	10-10-11-7-7
4430	6-6-6-3-5	5-6-7-6-7 Circ. Samples DST #3
4440	10-10-14-13-9	12-6-7-3-3
4450	3-2-3-4-6	6-5-27-9-9 Circ. Samples @ 4449'
4460	22-35-98-40-26	12-6-7-6-8 Circ. Samples DST #4
4470	11-6-11-7-8	11-10-13-10-11
4480	5-10-10-12-6	12-8-13-13-10
4490	18-21-20-21-23	23-29-39-5-10 Trip @ 4488'
4500	9-19-11-5-9	11-8-7-11-7
4500 - 4510	13-11-8-9-11	10-11-11-8-8
4520	8-9-8-9-11	9-6-10-10-10
4530	10-4-8-6-8	7-9-11-6-8
4540	8-11-8-9-10	8-10-9-11-10
4550	10-8-8-7-10	12-15-12-13-15
4560	14-10-14-14-15	Circ. TD Log