

GEOLOGICAL REPORT

Drilling Contractor: Gabbert-Jones, Inc. Allen Oldham & Assoc.
Drilling Commenced: 10-24-63 #1 Eaton
Drilling Completed: 11-5-63 Cen. SW SW Section 25-16-29w
Lane County, Kansas

Gentlemen:

Following is the geological report on the above captioned test well. Samples were examined from 3800 feet to the total depth. The well was under geological supervision from 3900 feet to the total depth. All measurements are corrected to the Kelly Bushing.

Elevation: 2797' K.B.

Surface Pipe: 8 5/8" @ 271' with 200 sacks.

<u>Formation</u>	<u>Sample Tops</u>
Heebner	3950 (-1153)
Toronto	3971 (-1174)
Lansing	3991 (-1194)
Base-Kansas City	4298 (-1501)
Marmaton	4320 (-1523)
Ft. Scott	4487 (-1690)
Cherokee	4511 (-1714)
Miss. St. Louis	4578 (-1781)
Spargen	4610 (-1813)
Rotary Total Depth	4650 (-1853)

Sample Descriptions

Toronto

3971 - 3985 Limestone; tan, fine crystalline, cherty, trace of fossiliferous and pinpoint porosity, no shows.

Lansing

4095 - 4099 Limestone; cream, oolitic, partly chalky, good oolitic porosity, no shows.

4160 - 4163 Limestone; cream to buff, partly chalky, fossiliferous, fair oolitic porosity, no shows.

4277 - 4280 Limestone; cream, chalky, fossiliferous, slightly cherty, fair oolitic and vugular porosity, no shows.

Marmaton

4414 - 4429 Limestone; light gray, fine crystalline, some gray and tan chert, no visible porosity, no shows.

Ft. Scott

4487 - 4499 Limestone; tan to light gray, fine crystalline, slightly fossiliferous, no visible porosity, no shows.

Cherokee

4558 - 4569 Sandstone; white, fine grain, subrounded to subangular, some porous and friable, some tan slightly vugular chert, no shows.

Mississippian (St. Louis)

4578 - 4610 Limestone; tan to light gray, finely crystalline to slightly chalky, slightly fossiliferous, some tan and gray. Sharp chert, no visible porosity, no shows.

Spergen

4610 - 4628 Buff to light gray cherty limestone and dolomite, fine crystalline to sucrose, no visible porosity, no shows.

4628 - 4650 Dolomite; tan, fine crystalline to sucrose, spotted poor pinpoint and intercrystalline porosity, no shows.

Rotary Total Depth 4650'.

Due to the structural position and complete absence of shows, the well was plugged and abandoned.

Respectfully submitted,

Lee Poulsen

LP:ch

Allen Oldham & Assoc. # 1 Eaton
 Cen. SW SW Section 25-16-29w
 Lane County, Kansas

DRILLING TIME LOG

<u>DEPTH</u>	<u>TIME</u>	<u>REMARKS</u>
3500 - 3510	366-3-5-5	4-4-5-4-3
3520	2-2-2-1-1	1-2-2-2-3
3530	4-2-3-3-2	2-2-2-2-2
3540	3-3-2-2-2	3-3-3-3-4
3550	5-5-3-2-2	2-3-3-3-4
3560	3-3-4-4-3	3-5-5-7-6
3570	5-9-5-5-4	5-8-7-5-4
3580	4-3-4-2-3	5-6-5-7-8
3590	9-6-8-7-8	8-7-4-5-6
3600	5-6-8-7-5	7-8-8-5-4
3600 - 3610	2-2-4-5-6	8-9-8-7-7
3620	3-2-3-3-3	3-3-3-3-4
3630	3-3-2-2-3	3-4-3-4-4
3640	3-3-3-2-2	3-3-3-5-4
3650	5-4-4-4-5	4-4-3-4-3
3660	2-1-1-1-2	2-2-2-1-2
3670	3-6-4-4-5	4-5-5-4-4
3680	4-5-4-4-3	3-3-3-5-5
3690	7-8-7-6-5	6-5-6-4-2
3700	4-5-3-3-2	4-6-4-4-5
3700 - 3710	3-5-5-5-7	5-3-4-4-7
3720	5-5-3-6-4	4-4-4-8-4
3730	8-4-5-7-6	5-6-4-4-5
3740	3-4-2-1-1	1-3-2-2-8
3750	7-2-1-1-1	1-1-1-1-2
3760	2-2-3-2-4	4-4-5-5-9
3770	5-3-3-3-3	4-4-4-3-2
3780	2-2-4-2-2	1-1-1-2-2
3790	4-5-8-5-4	5-6-6-6-4
3800	3-3-2-2-3	4-5-5-5-6
3800 - 3810	6-5-3-3-3	4-3-3-4-5
3820	6-5-5-3-4	3-2-2-6-5
3830	3-6-5-7-5	6-6-5-4-5
3840	5-6-6-6-6	6-7-6-7-4
3850	4-9-6-6-5	3-3-6-5-5
3860	4-3-2-2-2	2-3-3-4-5
3870	6-6-6-4-7	7-8-10-6-6
3880	5-5-6-10-13	4-4-5-4-4
3890	5-4-4-2-2	2-1-2-4-4
3900	2-2-2-2-2	1-1-1-2-4

Trip

Trip

Allen Oldham & Assoc. # 1 Eaton
 Can. SW SW Section 25-16-29w
 Lane County, Kansas
 Drilling Time Log

<u>DEPTH</u>	<u>TIME</u>	<u>REMARKS</u>
3900 - 3910	5-4-5-5-5	4-4-6-5-6
3920	3-2-3-2-2	1-1-1-2-2
3930	4-2-2-2-2	3-3-2-3-2
3940	2-3-1-1-1	2-5-4-5-5
3950	7-7-6-3-3	5-3-5-5-5
3960	3-3-4-4-5	5-7-4-4-2
3970	4-3-4-4-5	2-4-3-3-4
3980	4-6-8-8-5	8-8-10-7-5
3990	8-10-7-6-6	3-4-4-5-3
4000 - 4010	3-5-7-7-9	10-10-8-8-9
4020	8-8-10-8-7	7-9-10-9-10
4030	9-10-5-3-4	4-4-5-6-8
4040	9-9-7-8-9	14-10-13-10-10
4050	10-5-6-7-7	8-9-10-11-11
4060	10-10-9-12-12	10-9-11-10-10
4070	10-9-11-10-10	11-12-5-6-5 Trip
4080	6-6-7-5-5	7-5-5-6-5
4090	6-5-6-5-5	5-5-7-5-6
4100 - 4110	5-5-4-5-5	5-4-5-5-4
4120	4-4-4-5-5	3-2-1-2-6
4130	6-6-5-5-7	4-8-5-4-5
4140	3-5-4-4-4	4-5-4-5-4
4150	5-4-5-3-4	4-3-3-3-4
4160	4-5-5-5-2	4-3-5-7-5
4170	5-4-6-6-4	3-4-5-4-4
4180	5-9-8-6-6	8-5-6-5-6
4190	6-4-4-7-9	7-8-10-10-10
4200 - 4210	10-10-7-10-12	8-10-8-7-4
4220	8-11-10-9-11	5-6-6-7-5
4230	6-7-7-9-9	14-9-10-9-9
4240	9-9-9-10-14	11-12-12-12-9
4250	8-8-9-7-8	11-12-10-6-10
4260	10-5-3-3-3	5-5-4-4-6 Trip
4270	5-7-6-7-7	5-6-4-2-4
4280	6-5-5-4-5	4-5-5-5-4
4290	5-4-4-4-5	4-5-7-5-6
4300	7-7-6-7-6	7-6-7-6-9
	6-6-7-7-6	6-5-3-1-2
	7-5-4-4-5	5-6-4-6-7
	8-9-8-7-7	6-6-4-3-7

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<u>DEPTH</u>	<u>TIME</u>	<u>REMARKS</u>
4300 - 4310	6-10-9-8-8	6-9-7-7-5
4320	5-7-8-10-8	8-6-7-6-3
4330	6-8-9-12-9	5-5-6-5-7
4340	6-6-5-6-6	4-3-4-4-4
4350	5-6-6-9-9	9-7-6-6-8
4360	8-7-8-7-6	5-6-8-9-6
4370	6-6-6-6-6	6-7-7-6-7
4380	7-6-6-5-6	7-7-6-6-5
4390	7-7-7-7-5	6-5-7-8-5
4400	7-8-9-10-12	8-6-7-7-7
4400 - 4410	9-8-10-9-8	6-8-7-6-7
4420	9-5-6-5-9	9-7-9-6-10
4430	7-7-10-8-8	7-8-10-9-5
4440	6-6-5-5-8	6-6-7-8-9 Circ. Samples
4450	9-10-8-9-10	10-8-8-10-9
4460	9-9-8-10-7	4-4-3-9-10 Circ. Samples
4470	6-5-6-6-7	7-10-9-10-8
4480	8-9-11-9-8	8-8-8-6-5
4490	4-4-4-3-4	6-5-9-10-8
4500	7-10-7-7-6	7-10-9-7-5
4500 - 4510	3-3-6-6-8	7-7-6-6-7
4520	8-5-3-7-6	6-7-12-10-9
4530	6-5-5-7-9	8-7-8-10-12
4540	9-9-9-9-9	7-7-6-9-7
4550	5-8-6-9-5	7-9-9-7-6
4560	7-7-8-8-8	9-10-8-7-7
4570	9-5-6-6-8	7-6-7-7-8
4580	7-6-8-8-7	9-8-8-10-11
4590	12-11-15-16-16	19-18-18-24-5 Trip
4600	4-6-7-9-8	8-7-12-13-14
4600 - 4610	14-14-15-19-18	15-15-25-13-13
4620	4-3-4-8-8	17-11-14-12-12
4630	8-8-8-6-5	7-11-10-7-5
4640	7-4-3-4-5	6-5-4-4-4
4650	8-5-5-4-4	4-5-7-6-5 Circ. Samples T.D.