



11 Lewis Drive

Paola, KS 66071

**Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation**

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WELL LOG

Kansas Resource Exploration & Development, LLC

Joeckel #KR-58

API # 15-121-30,081

May 1 - May 2, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
32	soil & clay	32
31	shale	63
22	lime	85
12	shale	97
6	lime	103
36	shale	139
15	lime	154
12	shale	166
11	lime	177
2	shale	179
12	lime	191 oil show
6	shale	197
6	lime	203
2	shale	205
14	lime	219
4	shale	223
16	lime	239 base of the Kansas City
140	shale	379
1	silty shale	380
1	broken sand	381 90% light brown sand 10% shale light bleeding
7	oil sand	388 light brown sand, ok bleeding
2	broken sand	390 50% limey sand 50% brown sand ok bleeding
4	oil sand	394 light brown sand good bleeding
4	broken sand	398 90% brown sand 10% shale good bleeding
3	oil sand	401 brown sand good bleeding good saturaton
4	broken sand	405 60% brown sand 40% shale good bleeding
1	oil sand	406 brown sand good bleeding good saturaton
3	limey sand	409 hard brown & white, light bleeding
1	broken sand	410 40% brown sand 60% shale good bleeding
8	shale	418
6	lime	424 no oil
2	lime	426 lime with some porosity, ok bleeding
5	lime	431 lots of porosity, good bleeding
3	lime	434 no oil
37	shale	471
7	lime	478
15	shale	493
2	lime	495
7	shale	502
1	coal	503

9	shale	512
3	lime	515
22	shale	537
1	lime	538
14	shale	552
1	lime	553
17	shale	570
1	coal	571
9	shale	580
5	silty shale	585
8	oil sand	593 brown, light bleeding
30	sand	623 brown sand no bleeding occasional light odor
1	coal	624
14	shale	638
3	silty shale	641
3	broken sand	644 60% brown sand 40% shale, ok bleeding
2	silty shale	646
5	silty shale/lime	651
1	silty shale	652
1	broken sand	653 40% brown sand 60% shale, light bleeding
5	silty shale	658
0.5	broken sand	658.5 30% brown sand 70% shale, light bleeding
5.5	silty shale	664
1	broken sand	665 15% brown sand 85% shale light bleeding
2	silty shale	667
2	oil sand	669 brown sand, good bleeding
1	broken sand	670 50% brown sand 50% shale
1	oil sand	671 brown good bleeding
5	oil sand	676 dark brown & grey light bleeding
2	lime/sand/shale	678
4	shale	682
1	coal	683
38	shale	721
1	coal	722
16	shale	738 TD

Drilled a 9 7/8" hole to 33.5'

Drilled a 5 5/8" hole to 738'

Set 33.5' of 7" surface casing cemented with 5 sacks of cement

Set 728.55' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp and 1 baffle.

Baffle set 32' from bottom of tally.

Core Times

	<u>Minutes</u>	<u>Seconds</u>
667.5		21
668		48
669		46
670		42
671		53
672		55
673		42
674		40
675		37
676		42
677		59
678		43
679		36
680		27
681		27
682		57
683	1	9
684	1	1
685		46
686		45