



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 #KRI-45

API # 15-121-30,340

May 7 - May 8, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
6	soil & clay	6
74	shale	80
23	lime	103
10	shale	113
5	lime	118
37	shale	155
14	lime	169
12	shale	181
12	lime	193
2	shale	195
11	lime	206
7	shale	213
19	lime	232
4	shale	236
17	lime	253 base of the Kansas City
146	shale	399
1	limey sand	400 hard, ok bleeding
1	broken sand	401 80% shale 20% sand light bleeding
3	limey sand	404
5	broken sand	409 60% sand 40% shale ok bleeding
2	limey sand	411 no bleeding
6	broken sand	417 95% brown sand 5% shale good bleeding
3	limey sand	420 hard, light bleeding
2	oil sand	422 good bleeding
2	oil sand	424 hard, good bleeding
14	shale	438
4	lime	442
1	shale	443
7	lime	450 some porosity, good bleeding
2	lime	452 lots of porosity, great bleeding
8	lime	460 no oil
20	shale	480
6	lime	486
16	shale	502
4	lime	506
14	shale	520
5	lime	525
16	shale	541
3	lime	544
33	shale	577
1	lime	578

2	shale	580
3	lime/shale	583
9	shale	592
6	silty shale	598
9	broken sand	607 90% brown sand 10% shale, light bleeding, gassy
4	sand	611 light brown, no show
21	sand	632 dark brown & grey, no show makes water
3	broken sand	635 brown sand & shale
1	coal	636
16	shale	652
3	broken sand	655 60% brown sand 40% shale, light bleeding
8	silty shale	663
7	shale	670
9	oil sand	679 brown sand, ok bleeding
9	oil sand	688 brown sand, good bleeding
2	limey sand	690 limey black sand, very good bleeding
3	shale	693
1	coal	694
80	shale	774 TD

Drilled a 9 7/8" hole to 22.7'

Drilled a 5 5/8" hole to 774'

Set 22.7' of 7" surface casing cemented with 6 sacks of cement

Set 754.25' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp and 1 baffle.
Baffle set 33.3' from bottom of tally.

Core Times

	<u>Minutes</u>	<u>Seconds</u>
672		47
6773		43
674		40
675		28
676		31
677		39
678		39
679		42
680		39
681		31
682		35
683		36
684		38
685		35
686		47
687		36
688		42
689	1	4
690		45
691		34