



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-32

API # 15-121-30,336

May 16 - May 19, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
8	soil & clay	8
12	lime	20
108	shale	128
6	lime	134
3	shale	137
11	lime	148
1	shale	149
4	lime	153
9	shale	162
7	lime	169
33	shale	202
15	lime	217
12	shale	229
29	lime	258
6	shale	264
16	lime	280
5	shale	285
16	lime	301 base of the Kansas City
146	shale	447
2	limey sand	449 minimal show
2	lime/shale	451
3	broken sand	454 30% brown sand 70% shale minimal bleeding
4	limey sand	458 ok bleeding
2	oil sand	460 good bleeding, brown sand
2	limey sand	462 fairly soft limey sand, good bleeding
6	oil sand	468 soft brown sand, good bleeding
2	lime	470
2	broken sand	472 15% light brown sand 85% shale, minimal bleeding
20	shale	492
6	lime	498
28	shale	526
4	lime	530
18	shale	548
3	lime	551
14	shale	565
3	lime	568
21	shale	589 grey sand & shale, makes water
1	lime	590
27	shale	617
15	silty shale	632
29	broken sand	661 makes water light brown & grey sand, no oil

21	sand	682	light brown
1	coal	683	
15	shale	698	
4	broken sand	702	40% brown sand 60% shale light bleeding
8	silty shale	710	
1	broken sand	711	40% sand 60% shale ok bleeding
1	silty shale	712	
1	broken sand	713	30% sand 70% shale, light bleeding
1	limey sand	714	
5	silty shale	719	
1.5	oil sand	720.5	brown good bleeding
0.5	shale	721	
3.5	oil sand	724.5	brown sand good bleeding few thin grey sand laminations
0.5	shale	725	
5.5	oil sand	730.5	dark brown sand very good bleeding
0.5	grey sand	731	minimal show
3.5	oil sand	734.5	dark brown & black sand, very good bleeding
1.5	grey sand	736	no show
3	shale	739	
1	coal	740	
55	shale	795	TD

Drilled a 9 7/8" hole to 22.8'

Drilled a 5 5/8" hole to 795'

Set 22.8' of 7" surface casing cemented with 6 sacks of cement

Set 782.1' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp and 1 baffle.
Baffle set 30.5' from bottom of tally.

Core Times

	<u>Minutes</u>	<u>Seconds</u>
720		32
721		31
722		43
723		38
724		28
725		29
726		32
727		30
728		33
729		37
730		38
731		36
732		40
733		36
734		46
735		49
736		34
737		40
738		26
739		22