



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-52

API # 15-121-30,343

May 5 - May 6, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
26	soil & clay	26
33	shale	59
23	lime	82
11	shale	93
5	lime	98
17	shale	115
35	lime	150
11	shale	161
12	lime	173
2	shale	175
11	lime	186
8	shale	194
21	lime	215
2	shale	217
17	lime	234 base of the Kansas City
143	shale	377
12	broken sand	389 50% light brown and 50% shale, ok bleeding
3	limey sand	392 hard 90% lime 10% sand, light bleeding
3	broken sand	395 70% brown sand 30% shale, good bleeding
3	lime	398
5	oil sand	403 hard, good bleeding
1	broken sand	404 20% brown sand 80% shale, light bleeding
11	silty shale	415
5	lime	420 light show
6	lime	426 soft broken lime with lots of porosity good bleeding
1	lime	427 with some porosity, ok bleeding
5	lime	432 no show
30	shale	462
3	lime	465
3	shale	468
16	shale	484
3	lime	487
14	shale	501
4	lime	505
32	shale	537
1	lime	538
15	shale	553
1	coal	554
6	shale	560
14	silty shale	574

2	shale	576
8	broken sand	584 light brown & shale, making water & light bleeding
4	broken sand	588 light brown & shale, no bleeding, occasional light odor
5	sand	593 light brown, no show
11	sand	604 black & grey sand, no show
16	sand	620 light brown sand, no oil
1	coal	621
17	shale	638
2	broken sand	640 40% brown sand 60% shale, light bleeding
7	silty shale	647
4	broken sand	651 70% brown sand 30% shale, ok bleeding
1	oil sand	652 brown sand, good bleeding
1.5	broken sand	653.5 20% sand 80% shale, light bleeding
1	oil sand	654.5 brown, ok bleeding (gassy)
0.5	broken sand	655 80% sand 20% shale, ok bleeding
3	oil sand	658 brown sand, good bleeding
1.5	shale	659.5
2	lime	661.5
1	shale	662.5
3.5	oil sand	666 dark brown, good bleeding, few thin lime/shale seams
22	shale	688
1	coal	689
50	shale	739 TD

Drilled a 9 7/8" hole to 32.4'

Drilled a 5 5/8" hole to 739'

Set 32.4' of 7" surface casing cemented with 6 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 31.85' from bottom of tally.

## Core Times

	<u>Minutes</u>	<u>Seconds</u>
651		45
652		42
653	1	7
654		55
655		47
656	1	2
657		55
658		41
659	1	47
660	2	14
661	1	15
662		31
663		34
664		41
665		59
666		39
667		44
668		47
669		38
670		39