



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-58

API # 15-121-30,342

May 20 - May 21, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
25	soil & clay	25
31	shale	56
22	lime	78
11	shale	89
6	lime	95
37	shale	132
14	lime	146
4	shale	150
19	lime	169
1	shale	170
14	lime	184
6	shale	190
21	lime	211
3	shale	214
16	lime	230 base of the Kansas City
24	shale	254
3	sand	257 green sand, light gas odor
117	shale	374
2	broken sand	376 60% brown sand 40% shale light bleeding
7	oil sand	383 hard limey oil sand, light bleeding
3	lime	386 no show
5	broken sand	391 80% brown sand 20% shale, good bleeding
2	oil sand	393 brown sand, good bleeding
1	broken sand	394 40% brown sand 60% shale, good bleeding
1	lime	395
2	broken sand	397 50% shale 50% brown sand, ok bleeding
1	lime	398
1	oil sand	399 brown sand, good saturation, very good bleeding
2	broken sand	401 70% brown sand 30% shale, good bleeding
10	shale	411
3	lime	414 no oil
1	shale	415
2	lime	417 minimal show
5	lime	422 some porosity, good bleeding
5	lime	427 minimal oil show
33	shale	460
7	lime	467 light brown, makes water, light oil show
15	shale	482
4	lime	486
15	shale	501

4	lime	505
31	shale	536
5	lime	541
13	shale	554
1	lime	555
20	shale	575
5	oil sand	580 brown, ok bleeding
13	sand	593 light brown, no show
14	sand	607 brown & grey, no oil
4	shale	611
1	coal	612
15	shale	627
1	broken sand	628 50% sand 50% shale, light bleeding
1	silty shale	629
4	broken sand	633 50% sand 50% shale, light bleeding
1	lime/shale	634
12	silty shale	646
1	broken sand	647 95% brown sand, 5% shale, ok bleeding
1	oil sand	648 brown sand, minimal bleeding
1.5	broken sand	649.5 80% sand 20% shale, minimal bleeding
2.5	oil sand	652 light brown, minimal bleeding
1	lime	653
6	oil sand	659 brown sand, good bleeding
7	oil sand	666 dark brown & black sand, very good bleeding
8	oil sand	674 black soft sand, very good
36	shale	710
1	coal	711
22	shale	733 TD

Drilled a 9 7/8" hole to 30.1'

Drilled a 5 5/8" hole to 733'

Set 30.1' of 7" surface casing threade and coupled cemented with 5 sacks of cement

Set 723.10' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp and 1 baffle.

Baffle set 31.8' from bottom of tally.

**Core Times**

	<u>Minutes</u>	<u>Seconds</u>
648		44
649		40
650		35
651	1	25
652	1	32
653		44
654		34
655		33
656	1	28
657		44
658		44
659		41
660		43
661		47
662		41
663		43
664		42
665		40
666		16