



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-51

API # 15-121-30,341

May 6 - May 7, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
29	soil & clay	29
34	shale	63
7	lime	70
1	shale	71
15	lime	86
12	shale	98
5	lime	103
37	shale	140
15	lime	155
25	shale	180
12	lime	192
5	shale	197
5	lime	202
4	shale	206
13	lime	219
3	shale	222
16	lime	238 base of the Kansas City
144	shale	382
1	sand	383 light brown, minimal bleeding
3	limey sand	386 light bleeding
8	broken sand	394 80% light brown sand, 20% shale, ok bleeding
3	limey sand	397 light bleeding
6	broken sand	403 60% brown sand 40% shale, good bleeding
6	oil sand	409 hard brown sand, good bleeding
1	broken sand	410 10% brown sand 90% shale, light bleeding
8	shale	418
7	lime	425
6	lime	431 some porosity good bleeding
6	lime	437 light bleeding
26	shale	463
1	coal	464
6	shale	470
5	lime	475
16	shale	491
3	lime	494
16	shale	510
4	lime	514
19	shale	533
3	lime	536
22	shale	558
2	lime	560

7	shale	567
1	coal	568
17	shale	585
3	silty shale	588
2	broken sand	590 light brown sand & shale, light bleeding
5	sand	595 light brown sand no bleeding occasional light odor
6	sand	601 black & grey, no oil
21	sand	622 brown & grey, no oil
1	coal	623
13	shale	636
1	coal	637
1	shale	638
5	broken sand	643 60% brown sand 40% shale ok bleeding
1	lime/shale	644
9	silty shale	653
1	broken sand	654 40% brown sand 60% shale ok bleeding
3	silty shale	657
3	broken sand	660 50% brown sand 50% shale, good bleeding
12	oil sand	672 brown, good bleeding
6.5	shale	678.5
1.5	coal	680
59	shale	739 TD

Drilled a 9 7/8" hole to 33.4'

Drilled a 5 5/8" hole to 739'

Set 33.4' of 7" surface casing cemented with 6 sacks of cement

Set 728.5' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp and 1 baffle.

Baffle set 32.10' from bottom of tally.

Core Times

<u>Minutes</u>	<u>Seconds</u>
660	41
661	48
662	35
663	32
664	32
665	33
666	38
667	43
668	49
669	39
670	46
671	45
672	41
673	42
674	49
675	44
676	46
677	36
678	28
679	32