



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

Kitchen #KRI-18

API # 15-121-29,965

March 18 - March 19, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
8	soil & clay	8
15	broken lime	23
4	lime	27
21	shale	48
8	lime	56
40	shale	96 red bed
15	lime	111 making water
10	shale	121
28	lime	149
8	shale	157
24	lime	181
4	shale	185
3	lime	188
2	shale	190
6	lime	196 base of the Kansas City
17	shale	213
5	sand	218 green & grey sand
8	silty shale	226
75	shale	301
2	limey sand	303 hard green limey sand
4	sand	307 green sand (gassy)
58	shale	365
4	lime	369
2	shale	371
1	lime	372
2	shale	374
5	lime	379
5	silty shale	384
1	sand	385 green hard, no oil
3	silty shale	388
2	oil sand	390 brown & green sand, ok bleeding
31	shale	421
10	lime	431
11	shale	442
2	lime	444
17	shale	461
8	lime	469
20	shale	489

1	lime	490
4	shale	494
7	lime	501 oil show
5	shale	506
1	silty shale	507
0.5	broken sand	507.5 50% brown sand 50% shale light bleeding
5.5	oil sand	513 brown sand good bleeding, gassy few thin limey sand seams
6	broken sand	519 70% brown sand 30% shale, gassy ok bleeding
7	broken sand	526 15% brown sand 85% shale minimal bleeding
5	silty shale	531
45	shale	576
1	oil sand	577 brown sand hard minimal bleeding
1	limey sand	578 grey hard sand, no oil
2	broken sand	580 50% brown sand 50% silty shale light bleeding
6	silty shale	586
10	shale	596
1	coal	597
3	shale	600 TD

Drilled a 9 7/8" hole to 20.3'

Drilled a 5 5/8" hole to 600'

Set 20.5' of 7" surface casing cemented with 5 sacks of cement

Set 586.25' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp, 1 baffle.
Baffle set 32' from bottom of tally.

Core Times

	<u>Minutes</u>	<u>Seconds</u>
507	1	4
508		37
509		51
510	1	14
511		55
512		46
513		56
514		9
515		47
516		50
517		46
518		48
519		39
520		39
521		40
522		46
523		45
524		41
525		45
526		33