



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-15

API # 15-121-29,962

March 21 - March 24, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
1	soil & clay	1
18	broken lime	19
19	shale	38
8	lime	46
40	shale	86
15	lime	101
9	shale	110
31	lime	141
7	shale	148
21	lime	169
5	shale	174
11	lime	185 base of the Kansas City
18	shale	203
4	sand	207 grey sand, light gas odor
6	silty shale	213
3	broken sand	216 green sand & shale (gassy)
2	silty shale	218
73	shale	291
3	limey sand	294 hard limey green sand
59	shale	353
9	lime	362 oil show
4	shale	366
2	lime	368
5	shale	373
6	silty shale	379
32	shale	411
7	lime	418
12	shale	430
3	lime	433
17	shale	450
3	lime	453
25	shale	478
2	lime	480
3	shale	483
2	lime	485
4	brown lime	489 ok bleeding (hard)
1	lime	490
4	shale	494
2.5	silty shale	496.5

2	broken sand	498.5	80% brown sand 20% silty shale good bleeding
5	oil sand	503.5	brown sand good bleeding, gassy good saturation
2	broken sand	505.5	70% brown sand 30% shale light bleeding
7.5	broken sand	513	40% sand 60% shale minimal show
52	shale	565	
6	broken sand	571	60% brown sand 40% shale light bleeding
29	shale	600	TD

Drilled a 9 7/8" hole to 20.7'

Drilled a 5 5/8" hole to 600'

Set 20.7' of 7" surface casing cemented with 6 sacks of cement

Set 591.35' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp, 1 baffle.

Baffle set 31.5' from bottom of tally.

Core Times

	<u>Minutes</u>	<u>Seconds</u>
496	1	5
497		49
498		37
499		42
500		39
501		40
502		42
503		48
504		44
505		46
506		50
507		40
508		38
509		38
510		40
511		46
512		42
513		46
514		41
515		36