



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-4

API # 15-121-29,951

March 27 - March 28, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
10	soil & clay	10
17	shale	27
3	lime	30
40	shale	70
15	lime	85
9	shale	94
12	lime	106
2	shale	108
15	lime	123
9	shale	132
21	lime	153
5	shale	158
10	lime	168 base of the Kansas City
18	shale	186
6	broken sand	192 grey sand & shale
6	shale	198
3	silty shale	201
133	shale	334
9	lime	343
1	shale	344
1	lime	345
3	shale	348
3	lime	351
4	shale	355
3	silty shale	358
35	shale	393
7	lime	400
11	shale	411
3	lime	414
20	shale	434
11	lime	445
17	shale	462
1	lime	463
4	shale	467
3	lime	470
3	lime	473 ok oil show
8	shale	481
1	oil sand	482 brown sand good bleeding few tiny shale seams
1.5	broken sand	483.5 30% brown sand 70% silty shale ok bleeding

3.5	oil sand	487	brown sand good bleeding good saturartion
5	broken sand	492	5% brown sand 95% silty shale no show
58	shale	550	
7	broken sand	557	60% brown sand 40% silty shale light bleeding
3	silty shale	560	
10	shale	570	TD

Drilled a 9 7/8" hole to 20'

Drilled a 5 5/8" hole to 570'

Set 20' of 7" surface casing cemented with 5 sacks of cement

Set 559.6' 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>
481	27
482	30
483	35
484	38
485	35
486	31
487	42
488	42
489	38
490	37
491	36
492	40
493	41
494	38
495	42
496	45
497	55
498	37
499	47
500	27