



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 #KR-17  
API # 15-121-29,983  
March 19 - March 20, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
12	soil & clay	12
5	shale	17
22	lime	39
25	shale	64
2	lime	66
35	shale	101 red bed
1	lime	102
4	shale	106
16	lime	122
10	shale	132
11	lime	143
2	shale	145
16	lime	161
9	shale	170
21	lime	191
5	shale	196
2	lime	198
2	shale	200
7	lime	207 base of the Kansas City
12	shale	219
6	sand	225 green sand, no oil, no gas
4	silty shale	229
5	shale	234
5	sand	239 green sand & shale, gassy
73	shale	312
3	limey sand	315 green hard sand
57	silty shale	372
9	lime	381
2	shale	383
5	lime	388
2	shale	390
8	silty shale	398
1	broken sand	399 15% green sand, 85% silty shale ok bleeding
23	shale	422
1	coal	423
5	shale	428

8	lime	436
13	shale	449
3	lime	452
17	shale	469
9	lime	478
17	shale	495
1	lime	496
5	shale	501
6	lime	507 oil show
4	shale	511
1.5	silty shale	512.5 few light brown sand seams minimal show
1.5	broken sand	514 80% brown sand 20% shale good bleeding
1	silty shale	515 green sandy shale few light brown sand seams no show
6.5	oil sand	521.5 brown sand good bleeding good saturation few thin shale seams
2	broken sand	523.5 90% brown sand 10% shale, light bleeding
2.5	shale	526
2	broken sand	528 30% brown sand 70% shale, no bleeding
3.5	shale	531.5
3.5	lime	535
46	shale	581
2	oil sand	583 hard brown sand light bleeding
4	grey sand	587
3	silty shale	590
10	shale	600 TD

Drilled a 9 7/8" hole to 21.1'

Drilled a 5 5/8" hole to 600'

Set 21.1' of 7" surface casing cemented with 5 sacks of cement

Set 590.8' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp, 1 baffle.

Baffle set 31.4' from bottom of tally.

**Core Times**

	<u>Minutes</u>	<u>Seconds</u>
512		46
513		39
514		44
515		42
516		35
517		39
518		37
519		46
520		45
521		49
522		38
523		43
524		40
525		39
526		39
527		48
528		50
529		50
530	1	39
531	1	52