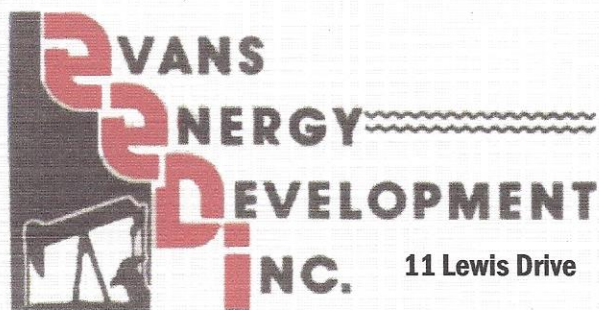




11 Lewis Drive

Paola, KS 66071

**Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation**

Phone: 913-557-9083

Fax: 913-557-9084

WELL LOG

Kansas Resource Exploration & Development, LLC

Joeckel #KR-51

API # 15-121-30,078

April 11 - April 14, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
25	soil & clay	25
40	shale	65
24	lime	89
10	shale	99
5	lime	104
37	shale	141
14	lime	155
12	shale	167
26	lime	193
11	shale	204
16	lime	220
3	shale	223
23	lime	246
17	shale	263
3	lime	266 base of the Kansas City
117	shale	383
1	silty shale	384
4	limey sand	388 50% lime 50% limey sand ok bleeding
3	broken sand	391 30% soft brown sand 70% shale ok bleeding
5	sand	396 light brown, light bleeding
2	limey sand	398 no show
5	oil sand	403 brown sand, good bleeding
4	limey sand	407 hard white brown sand, good bleeding
2	broken sand	409 60% brown sand, 40% shale, good bleeding
12	shale	421
3	lime	424
3	shale	427
4	lime	431 broken lime with porosity breaks good bleeding
2	lime	433 broken lime with porosity breaks ok bleeding
6	lime	439
29	shale	468
5	lime	473
16	shale	489
4	lime	493
14	shale	507
3	lime	510
21	shale	531
4	lime	535
8	shale	543

6	lime	549
10	shale	559
1	coal	560
10	shale	570
2	lime	572
7	shale	579
4	silty shale	583
4	broken sand	587 60% shale 40% light brown sand, no show
4	oil sand	591 brown sand light oil show (gassy)
16	broken sand	607 brown & grey sand no show makes water
21	sand	628 brown sand, no show
6	shale	634
2	lime	636
1	shale	637
1	coal	638
2	shale	640
4	broken sand	644 90% brown sand 10% shale, good bleeding
10	silty shale	654 limey
2	broken sand	656 40% brown 60% shale, ok bleeding
3	limey sand	659 no show
2	oil sand	661 brown sand good bleeding
4.5	broken sand	665.5 80% brown sand 20% shale, good bleeding
6.5	oil sand	672 brown sand, good bleeding
6.5	oil sand	678.5 darker sand, good bleeding
2.5	shale	681
1	coal	682
68	shale	750 TD

Drilled a 9 7/8" hole to 30'

Drilled a 5 5/8" hole to 750'

Set 30' of 7" surface casing cemented with 6 sacks of cement

Set 736.55' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp and 1 baffle.

Baffle set 32.85' from bottom of tally.

Core Times

	<u>Minutes</u>	<u>Seconds</u>
659	1	15
660		59
661		50
662		35
663		35
664		40
665		44
666		41
667		43
668		41
669		33
670		36
671		38
672		34
673		39
674		43
675		43
676		43
677		40
678		36