



11 Lewis Drive

Paola, KS 66071

Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation

Phone: 913-557-9083

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WELL LOG

Area Management Corp.

Longanecker #L-1

API #15-091-24,234

November 26 - November 27, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
3	soil & clay	3
66	sandstone	69
21	sand & shale	90
5	lime	95
7	shale	102
15	lime	117
9	shale	126
7	lime	133
7	shale	140
19	lime	159
21	shale	180
22	lime	202
5	shale	207
18	lime	225
18	shale	243
21	lime	264
17	shale	281
10	lime	291
17	shale	308
7	lime	315
7	shale	322
13	lime	335
40	shale	375
24	lime	399
8	shale	407
22	lime	429
3	shale	432
15	lime	447 base of the Kansas City
173	shale	620
5	lime	625
4	shale	629
2	lime	631
27	shale	658
3	lime	661
54	shale	715
5	sand	720 green, no oil show
58	shale	778
8	broken sand	786 brown & grey, light bleeding

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16	shale	802
5	lime	807
66	shale	873
1	coal	874
11	shale	885
2	sand	887 white, no oil
2	shale	899
6.5	oil sand	905.5 brown, good bleeding
2	broken sand	907.5 brown & grey, 50% bleeding
42.5	shale	950 TD

Drilled a 9 7/8" hole to 109'

Drilled a 5 5/8" hole to 905'

Set 109' of 7" cemented by Consolidated Oil Well Service.

Set 940' of use 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp.

	Core Times	
	<u>Minutes</u>	<u>Seconds</u>
800		59
801		59
802		58
803		54
804		53
805		50
806		61
807		54
808		67
809		53
810		55
811		43
812		45
813		49
814		41
815		48
816		43
817		47
818		39
819		59