



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

D & Z Exploration, Inc.

Andrew A #16

API # 15-091-24,405

December 17 - December 19, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
17	soil & clay	17
13	sand & gravel	30
12	shale	42
27	lime	69
8	shale	77
8	lime	85
10	shale	95
15	lime	110
23	shale	133
70	lime	203
31	shale	234
11	lime	245
16	shale	261
7	lime	268
7	shale	275
12	lime	287
24	shale	311
2	lime	313
7	shale	320
27	lime	347
6	shale	353
23	lime	376
3	shale	379
16	lime	395 base of the Kansas City
175	shale	570
5	lime	575
17	shale	592
6	lime	598
14	shale	612
4	lime	616
17	shale	633
4	lime	637
30	shale	667
2	lime	669
78	shale	747
7	broken oil sand	754 brown & grey, light oil show
109.5	shale	863.5
1.5	oil sand	865 black 90% bleeding
3	limey sand	868 white, no oil

1	limey sand	868 black & white a thin bleeding seam
6	shale	875
65	limey sand	940 white, no oil
		940 TD

Drilled a 9 7/8" hole to 45.4'

Drilled a 5 5/8" hole to 940'

Set 45.4' of 7" surface casing, cemented by Consolidated Oil Well Service.

Set 920' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp, 1 seating nipple

	<u>Minutes</u>	<u>Seconds</u>		<u>Minutes</u>	<u>Seconds</u>
846		48	863		30
847		54	864		32
848		38	865	1	14
849		26	866	1	37
850		38	867	1	40
851		40	868	1	19
852		36	869		59
853		40	870		36
854		31	871		35
855		34	872		29
856		45	873		28
857		53	874		<u>29</u>
858		40	875		23
859		42	876		18
860		36	877		36
861		29	878		21
862		28			