



11 Lewis Drive

Paola, KS 66071

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

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WELL LOG

D & Z Exploration, Inc.
Sugar Ridge Farms #S3
API # 15-091-24,287
April 8 - April 9, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
15	soil & clay	15
17	shale	32
4	lime	36
4	shale	40
16	lime	56
7	shale	63
9	lime	72
8	shale	80
23	lime	103
20	shale	123
22	lime	145
12	shale	157
12	lime	169
11	shale	180
30	lime	210
17	shale	227
8	lime	235
21	shale	256
7	lime	263
4	shale	267
7	lime	274
46	shale	320
25	lime	345
6	shale	351
25	lime	376
4	shale	380
14	lime	394 base of the Kansas City
25	shale	419
8	sand	427
143	shale	570
5	lime	575
2	shale	577
3	lime	580
37	shale	617
1	coal	618
11	shale	629
2	lime	631

29	shale	660
4	lime	664
49	shale	713
4	lime	717
19	shale	736
3	oil sand	739 brown ok bleeding
2	broken sand	741 brown & grey, ok bleeding
93	shale	834
1	coal	835
23	shale	858
3	limey sand	861 brown & white good bleeding
4	oil sand	865 brown good bleeding
1	limey sand	866 brown & white good bleeding
5	oil sand	871 black, no bleeding
22	silty shale	893
67	shale	960 TD

Drilled a 9 7/8" hole to 22.4'

Drilled a 5 5/8" hole to 960'

Set 22.4' of 7" surface casing cemented with 5 sacks of cement.

Set 928.7' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp