



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

Petroleum Technologies, Inc.

Sawyer #12i

API #15-091-24,323

July 3 - July 7, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
14	soil & clay	14
23	shale	37
4	lime	41
4	shale	45
16	lime	61
9	shale	70
8	lime	78
6	shale	84
24	lime	108
18	shale	126
23	lime	149
6	shale	155
52	lime	207
19	shale	226
8	lime	234
21	shale	255
5	lime	260
5	shale	265
8	lime	273
43	shale	316
29	lime	345
7	shale	352
22	lime	374
3	shale	377
15	lime	392 base of the Kansas City
169	shale	561
5	lime	566
2	shale	568
4	lime	572
8	shale	580
6	lime	586
14	shale	600
3	lime	603
45	shale	648
2	lime	650
71	shale	721
11	broken sand	732 brown & grey, light bleeding
50	shale	782
8	sand	790

52	shale	842
13	limey sand	855
10	shale	865
1	coal	866
44	shale	910 TD

Drilled a 9 7/8" hole to 22.6'

Drilled a 5 5/8" hole to 910'

Set 22.6' of 7" casing cemented with 5 sacks cement.

Set 880' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.