



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 #9i

API #15-091-24,322

July 9 - July 10, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
13	soil & clay	13
15	shale	28
4	lime	32
3	shale	35
16	lime	51
8	shale	59
9	lime	68
8	shale	76
22	lime	98
16	shale	114
24	lime	138
8	shale	146
53	lime	199
18	shale	217
9	lime	226
22	shale	248
4	lime	252
3	shale	255
12	lime	267
42	shale	309
24	lime	333
11	shale	344
22	lime	366
3	shale	369
16	lime	385 base of the Kansas City
165	shale	550
5	lime	555
14	shale	569
2	lime	571
18	shale	589
4	lime	593
14	shale	607
3	lime	610
27	shale	637
2	lime	639
70	shale	709
10	broken sand	719 brown & grey, light bleeding
20	shale	739
3	lime	742

88	shale	830
5	limey sand	835
12	shale	847
1	coal	848
52	shale	900 TD

Drilled a 9 7/8" hole to 20'

Drilled a 5 5/8" hole to 900'

Set 20' of 7" casing cemented with 5 sacks cement.

Set 869.8' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.