



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

Tailwater, Inc.

South Kempnich # 37-TL

API #15-003-26,399

September 29 - September 30, 2014

UPPER INT.

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
15	soil & clay	15
3	clay & gravel	18
56	shale	74
30	lime	104
11	shale	115
8	lime	123
46	shale	169
5	lime	174
13	shale	187
38	lime	225
1	shale	226
25	lime	251
2	shale	253
23	lime	276 base of the Kansas City
2	shale	278
2	lime	280
185	shale	465
5	lime	470 good oil show
16	shale	486
6	oil sand	492 green good bleeding
1	coal	493
4	shale	497
19	oil sand	516 green good bleeding
5	shale	521
2	coal	523
4	shale	527
9	lime	536
14	shale	550
7	lime	557
17	shale	574
15	lime	589
39	shale	628
2	limey sand	630
8	broken sand	638 brown & green ok bleeding
32	shale	670
1	lime & shells	671
5	oil sand	676 brown, good bleeding
2	broken sand	678 brown & grey ok bleeding
48	shale	726

1	oil sand	727 black light oil show
26	shale	753
16	sand	769 grey & white, no oil
1	broken sand	770 brown & grey no oil
3	sand	773 grey & white, no oil
2	sand	775 black, no oil
3	broken sand	778 brown & grey no oil
3	gas sand	781 light brown, no oil
59	sand	840 grey & white, no oil
60	shale	900 TD

Drilled a 9 7/8" hole to 22.6'

Drilled a 5 5/8" hole to 900'

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

Set 852' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.