



11 Lewis Drive

Paola, KS 66071

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

Phone: 913-557-9083

Fax: 913-557-9084

**WELL LOG**

Tailwater, Inc.

South Kempnich # 18-IWU

API #15-003-26,389

November 6 - November 7, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
2	soil & clay	2
3	clay & gravel	5
91	shale	96
28	lime	124
69	shale	193
10	lime	203
2	shale	205
41	lime	246
2	shale	248
25	lime	273
1	shale	274
23	lime	297 base of the Kansas City
72	shale	369
18	sand	387 oil show
87	shale	474
3	lime	477 green, light oil show
9	shale	486
3	lime	489 oil show
13	shale	502
4	oil sand	506 green light oil show
5	shale	511
1	coal	512
3	shale	515
16	oil sand	531 green, good bleeding
6	shale	537
2	coal	539
5	shale	544
5	lime	549
16	shale	565
6	lime	571
24	shale	595
8	lime	603
45	shale	648
1	limy sand	649 green & white, no oil
6	broken oil sand	655 brown & green, good bleeding
20	shale	675 TD

Drilled a 9 7/8" hole to 22.6'

Drilled a 5 5/8" hole to 675'

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

Set 670' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.