



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 # 11-IWU

API #15-003-26,382

November 10 - November 11, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
10	soil & clay	10
4	clay & gravel	14
70	shale	84
27	lime	111
71	shale	182
10	lime	192
6	shale	198
35	lime	233
5	shale	238
23	lime	261
3	shale	264
22	lime	286 base of the Kansas City
176	shale	462
3	lime	465
5	shale	470
6	lime	476 oil show
11	shale	487
8	oil sand	495 green ok bleeding
4	shale	499
1	coal	500 green light oil show
6	shale	506
13	oil sand	519 green good bleeding
7	shale	526
2	coal	528 green, good bleeding
5	shale	533
4	lime	537
18	shale	555
3	lime	558
22	shale	580
9	lime	589
47	shale	636
3	limy sand	639 green & white, no oil
1	broken sand	640 brown & green
2	oil sand	642 brown good bleeding
3	broken sand	645 brown & green, good bleeding
2	broken sand	647 brown & green 90% shale, lite bleeding
23	shale	671 TD

Drilled a 9 7/8" hole to 22.3'

Drilled a 5 5/8" hole to 671'

Set 22.3' of 7" surface casing with 5 sacks of cement.

Set 667' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.