



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 # 14-IWU

API #15-003-26,385

October 29 - October 30, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
14	soil & clay	14
4	clay & gravel	18
47	shale	65
28	lime	93
69	shale	162
10	lime	172
5	shale	177
38	lime	215
5	shale	220
24	lime	244
3	shale	247
24	lime	271 base of the Kansas City
176	shale	447
2	lime	449
8	shale	457
7	lime	464 oil show
11	shale	475
4	oil sand	479 green, light oil show
6	shale	485
1	coal	486
2	shale	488
21	oil sand	509 green, good bleeding
4	shale	513
2	coal	515
4	shale	519
3	lime	522
43	shale	565
7	lime	572
17	shale	589
6	lime	595
25	shale	620
5.5	broken sand	625.5 brown & green 90% bleeding
3.5	broken sand	629 brown & green a few thin bleeding seams
21	shale	650 TD

Drilled a 9 7/8" hole to 22.65'

Drilled a 5 5/8" hole to 650'

Set 22.65' of 7" surface casing with 5 sacks of cement.

Set 645' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.

	<u>Minutes</u>	<u>Seconds</u>
620		30
621		43
622		39
623		29
624		18
625		28
626		26
627		26
628		28
629		26
630		28
631		51
632		25
633		26
634		34
635		24