



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.

North Kempnich # 7-IWU

API #15-003-26,231

September 5 - September 8, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
11	soil & clay	11
4	clay & gravel	15
78	shale	93
19	lime	112
75	shale	187
33	lime	220
5	shale	225
26	lime	251
3	shale	254
14	lime	268 base of the Kansas City
174	shale	442
24	lime	466
20	shale	486
1	coal	487
2	shale	489
2	broken sand	491 green & grey ok bleeding
13	oil sand	504 green, ok bleeding
7	shale	511
1	coal	512
5	shale	517
3	lime	520
19	shale	539
4	lime	543
22	shale	565
13	lime	578
41	shale	619
4	limey sand	623 green & white, no oil
4	broken sand	627 brown & grey ok bleeding
18	shale	645 TD

Drilled a 9 7/8" hole to 21.6'

Drilled a 5 5/8" hole to 645'

Set 21.6' of 7" surface casing threaded and coupled cemented with 5 sacks of cement.

Set 640.5' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.