



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 #29-IWM

API #15-003-26,255

September 4 - September 5, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
11	soil & clay	11
4	clay & gravel	15
51	shale	66
29	lime	95
66	shale	161
12	lime	173
5	shale	178
35	lime	213
5	shale	218
12	lime	230
15	shale	245
19	lime	264 base of the Kansas City
172	shale	436
4	lime	440
2	shale	442
3	lime	445
5	shale	450
12	lime	462 oil show
18	shale	480
1	coal	481
2	shale	483
17	oil sand	500 grey, ok bleeding
3	shale	503
1	coal	504
5	shale	509
2	lime	511
20	shale	531
4	lime	535
22	shale	557
9	lime	566
17	shale	583
7	lime	590
11	shale	601
3	lime	604
10	shale	614
1	limy sand	615 green & white, no oil
5	broken sand	620 brown & green good bleeding
33	shale	653

1	lime & shells	654
5	oil sand	659 brown good bleeding
6	broken sand	665 brown & grey ok bleeding
34	shale	699 TD

Drilled a 9 7/8" hole to 21.6'

Drilled a 5 5/8" hole to 699'

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

Set 690' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.