



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.

Kempnich V [REDACTED] # 3-IWM

API #15-003-26,404

November 18 - November 19, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
8	soil & clay	8
89	shale	97
29	lime	126
64	shale	190
1	lime	191
16	shale	207
6	lime	213
10	shale	223
20	lime	243
2	shale	245
24	lime	269
2	shale	271
20	lime	291
96	shale	387
9	sand	396
11	shale	407
24	sand	431
31	shale	462
2	lime	464
6	shale	470
6	lime	476
14	shale	490
13	oil sand	503 green, light oil show
1	shale	504
1	coal	505
6	shale	511
9	broken sand	520 green & grey light bleeding
5	shale	525
2	coal	527
6	shale	533
6	lime	539
16	shale	555
2	lime	557
18	shale	575
8	lime	583
20	shale	603
4	lime	607
20	shale	627
3	sand	630 green, no oil

2	broken sand	632 brown & green, light oil show
2	silty shale	634
31	shale	665
1	lime & shells	666
3	oil sand	669 brown, light bleeding
5	broken sand	674 brown & grey light bleeding
51	shale	725 TD

Drilled a 9 7/8" hole to 23.4'

Drilled a 5 5/8" hole to 725'

Set 23.4' of 7" surface casing with 5 sacks of cement.

Set 715' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.