



11 Lewis Drive

Paola, KS 66071

Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation

Phone: 913-557-9083

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WELL LOG

Tailwater, Inc.

North Kempnich # 11 IWU

API #15-003-26,235

September 16 - September 17, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
1	soil & clay	1
4	clay & gravel	5
67	shale	72
19	lime	91
23	shale	114
10	lime	124
44	shale	168
10	lime	178
6	shale	184
31	lime	215
10	shale	225
22	lime	247
3	shale	250
42	lime	292
171	shale	463
2	lime	465
4	shale	469
1	lime	470
1	shale	471
14	lime	485
22	shale	507
1	coal	508
2	shale	510 green, good bleeding
17	oil sand	527
6	shale	533
2	coal	535
7	shale	542
9	lime	551
9	shale	560
5	lime	565
19	shale	584
25	lime	609
5	shale	614
4	lime	618
24	shale	642
2	limy sand	644 green no oil
4	broken sand	648 brown & green, ok bleeding
23	shale	671 TD

Drilled a 9 7/8" hole to 22.4'

Drilled a 5 5/8" hole to 671'

Set 22.4' of 7" surface casing with 5 sacks of cement.

Set 665.6' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.