



**Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation**

11 Lewis Drive

Paola, KS 66071

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WELL LOG

Tailwater, Inc.

H & H Wittman #1-T

API#15-003-25,727

January 16 - January 17, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
14	soil & clay	14
11	shale	25
1	lime	26 making water
23	shale	49
28	lime	77
70	shale	147
10	lime	157
7	shale	164
33	lime	197
9	shale	206
23	lime	229
3	shale	232
20	lime	252 base of the Kansas City
34	shale	286
8	sand	294 making gas
89	shale	383
5	oil sand	388 brown, good bleeding
6	broken sand	394 brown & grey, good bleeding
29	shale	423
3	lime	426
3	shale	429
5	lime	434
3	shale	437
10	lime	447
30	shale	477
1	coal	478
12	shale	490
1	coal	491
5	shale	496
10	lime	506
11	shale	517
5	lime	522
24	shale	546
11	lime	557
47	shale	604
4	sand	608 green, no oil
26	shale	634
1	lime & shells	635

122	shale	757
7	oil sand	764 brown, good bleeding
87	shale	851
8	sand	859 white, no oil
141	shale	1000 with a few coal seams
		1000 TD

Drilled a 9 7/8" hole to 25.9'

Drilled a 5 5/8" hole to 1000'

Set 25.9' of 7" surface casing cemented with 6 sacks of cement.

Set 989.5' of 2 7/8" threaded and coupled 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.