



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.

P. Winfrey #13-T

API #15-003-25,797

March 1 - March 4, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
19	soil & clay	19
29	shale	48
29	lime	77
23	shale	100
7	lime	107
36	shale	143
10	lime	153
4	shale	157
34	lime	191
12	shale	203
22	lime	225
3	shale	228
23	lime	251 base of the Kansas City
172	shale	423
3	lime	426
2	shale	428
3	lime	431
3	shale	434
10	lime	444 oil show
8	shale	452
13	broken oil sand	465 green, light bleeding
1	coal	466
7	shale	473
10	oil sand	483 green, good bleeding
6	water sand	489 grey, no oil
7	shale	496
6	lime	502
15	shale	517
18	lime	535
31	shale	566
7	lime	573
29	shale	602
4	broken sand	606 brown & green, no oil
2	shale	608
1	broken sand	609 green & brown, no oil
37	shale	646
1	lime & shells	647
1	sand	648 black, no oil show
4.5	broken oil sand	652.5 brown & grey, 60% bleeding

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5	shale	657.5
5.5	sand	663 black, no oil show
117	shale	780
5	sand	785 white, no oil
5	shale	790 TD

Drilled a 9 7/8" hole to 22.7'

Drilled a 5 5/8" hole to 790'

Set 22.7' of 7" surface casing cemented with 6 sacks of cement.

Set 780.5' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.

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Core Times

<u>Minutes</u>	<u>Seconds</u>		<u>Minutes</u>	<u>Seconds</u>
477	49	650		33
478	32	651		33
479	25	652		38
480	22	653		34
481	25	654		34
482	23	655		35
483	24	656		28
484	22	657		31
485	21	658		29
486	21	659		32
487	21	660		43
488	23	661		27
489	24	662		28
490	24	663		27
491	32	664		30
492	31	665		34
493	33	666		31
494	32	667		39
495	33	668		38
496	34	669		34
497	34	670		33