



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.



Kempnich 1-IWM
API 15-003-26502

November 17 - November 18, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
8	soil & clay	8
102	shale	110
28	lime	138
12	shale	150
5	lime	155
34	shale	189
3	lime	192
9	shale	201
10	lime	211
8	shale	219
37	lime	256
4	shale	260
22	lime	282
3	shale	285
20	lime	305 base of the Kansas City
171	shale	476
3	lime	479
4	shale	483
9	lime	492 oil show
12	shale	504
11	oil sand	515 green, ok bleeding
1	shale	516
1	coal	517
2	shale	519
16	oil sand	535 green good bleeding
5	shale	540
2	coal	542
11	shale	553
2	lime	555
34	shale	589
10	lime	599
44	shale	643
1	limey sand	644 green & white, no oil
6	sand	650 green, no oil
31	shale	681
1	lime & shells	682
4	oil sand	686 brown, good bleeding
1	broken sand	687 brown & grey, good bleeding
4	oil sand	691 brown, good bleeding

1
41

broken sand
shale

692 brown & grey good bleeding
733 TD

Drilled a 9 7/8" hole to 23.5'

Drilled a 5 5/8" hole to 733'

Set 23.5' of 7" surface casing with 5 sacks of cement.

Set 723.4' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.