



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.

Wittman #16-T

API #15-003-26,556

September 29 - September 30, 2016

| <u>Thickness of Strata</u> | <u>Formation</u> | <u>Total</u>                        |
|----------------------------|------------------|-------------------------------------|
| 15                         | soil & clay      | 15                                  |
| 111                        | shale            | 126                                 |
| 29                         | lime             | 155                                 |
| 25                         | shale            | 180                                 |
| 12                         | lime             | 192                                 |
| 40                         | shale            | 232                                 |
| 48                         | lime             | 280                                 |
| 5                          | shale            | 285                                 |
| 24                         | lime             | 309                                 |
| 3                          | shale            | 312                                 |
| 15                         | lime             | 327 base of the Kansas City         |
| 166                        | shale            | 493                                 |
| 2                          | lime             | 495                                 |
| 4                          | shale            | 499                                 |
| 11                         | lime             | 510 oil show                        |
| 2                          | shale            | 512                                 |
| 2                          | oil sand         | 514 green, light bleeding           |
| 11                         | shale            | 525                                 |
| 15                         | broken sand      | 540 green & grey, light bleeding    |
| 13                         | shale            | 553                                 |
| 11                         | oil sand         | 564 green, ok bleeding              |
| 1                          | coal             | 565                                 |
| 7                          | shale            | 572                                 |
| 7                          | lime             | 579                                 |
| 14                         | shale            | 593                                 |
| 4                          | lime             | 597                                 |
| 22                         | shale            | 619                                 |
| 14                         | lime             | 633                                 |
| 40                         | shale            | 673                                 |
| 5                          | sand             | 678 no oil                          |
| 31                         | shale            | 709                                 |
| 1                          | lime & shells    | 710                                 |
| 3                          | oil sand         | 713 brown, good bleeding            |
| 6                          | broken sand      | 719 brown & grey, 70% bleeding sand |
| 43                         | shale            | 762 TD                              |

Drilled a 9 7/8" hole to 22.5'

Drilled a 5 5/8" hole to 762'

Set 22.5' of 7" surface casing with 5 sacks of cement.

Set 752' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.