

Johnson County, KS
Well: Thomas B 10
Lease Owner: ST Petroleum

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
9/30/2013

WELL LOG

| Thickness of Strata | Formation | Total Depth |
|---------------------|---------------|-------------|
| 10 | Soil-Clay | 10 |
| 11 | Sandstone | 21 |
| 3 | Shale | 24 |
| 10 | Sand | 34 |
| 59 | Shale | 93 |
| 3 | Lime | 96 |
| 3 | Shale | 99 |
| 15 | Lime | 114 |
| 8 | Shale | 122 |
| 8 | Lime | 130 |
| 7 | Shale | 137 |
| 20 | Lime | 157 |
| 8 | Shale | 165 |
| 11 | Sand | 176 |
| 29 | Lime | 205 |
| 40 | Sandy Shale | 245 |
| 25 | Lime | 270 |
| 14 | Shale | 284 |
| 9 | Lime | 293 |
| 19 | Shale | 312 |
| 7 | Lime | 319 |
| 4 | Shale | 323 |
| 7 | Lime | 330 |
| 45 | Shale | 375 |
| 7 | Lime | 382 |
| 3 | Shale | 385 |
| 15 | Lime | 400 |
| 7 | Shale | 407 |
| 23 | Lime | 430 |
| 4 | Shale | 434 |
| 3 | Lime | 437 |
| 5 | Shale | 442 |
| 6 | Lime | 448 |
| 5 | Shale | 453 |
| 4 | Sand and Lime | 457 |
| 25 | Shale | 482 |
| 13 | Sandy Shale | 495 |
| 60 | Shale | 555 |
| 6 | Sand | 561 |
| 4 | Sandy Shale | 565 |

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| | | |
|----|----------------|--------|
| 50 | Shale | 615 |
| 6 | Lime | 621 |
| 4 | Shale | 625 |
| 2 | Lime | 627 |
| 9 | Shale | 636 |
| 7 | Lime | 643 |
| 4 | Sand | 647 |
| 11 | Shale | 658 |
| 4 | Lime | 662 |
| 2 | Coal | 664 |
| 5 | Shale | 669 |
| 10 | Lime | 679 |
| 27 | Shale | 706 |
| 2 | Lime | 708 |
| 8 | Shale | 716 |
| 5 | Sand | 721 |
| 4 | Sandy Shale | 725 |
| 56 | Shale | 781 |
| 7 | Broken Sand | 788 |
| 5 | Sandy Shale | 793 |
| 14 | Shale | 807 |
| 3 | Lime | 810 |
| 10 | Shale | 820 |
| 6 | Sand | 826 |
| 3 | Sandy Shale | 829 |
| 10 | Shale | 839 |
| 1 | Sand | 840 |
| 1 | Sand | 841 |
| 2 | Sand | 843 |
| 1 | Broken Sand | 844 |
| 14 | Shale | 858 |
| 5 | Sand | 863 |
| 21 | Shale | 884 |
| 2 | Sand | 886 |
| 12 | Shale | 898 |
| 1 | Broken Sand | 899 |
| 1 | Broken Sand | 900 |
| 1 | Sandy Lime | 901 |
| 2 | Sandy Lime | 903 |
| 4 | Sand | 907 |
| 13 | Broken Sand | 920 |
| 5 | Sand and Shale | 925 |
| 55 | Shale | 980-TD |
| | | |
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