

Operator License # 32834
 Operator JTC Oil, Inc.
 Address 35790 Plum Creek Road
 City Osawatomie, KS 66064
 Contractor JTC Oil, Inc.
 Contractor License # 32834
 T.D. 740'
 T.D. of pipe 729'
 Surface pipe size 7"
 Surface pipe depth 20'
 Well Type Injection

API # 15-121-30436-00-00
 Lease Name Cooper
 Well # I-16
 Spud Date 10/21/2014
 Cement Date 11/3/2014
 Location Sec 9 T 17 R 22
 990 feet from S line
 660 feet from E line
 County Miami

Driller's Log

| Thickness | Strata | From | To | |
|-----------|-------------|------|-----|------|
| 2 | soil | 0 | 2 | |
| 2 | clay | 2 | 4 | |
| 4 | lime | 4 | 8 | |
| 94 | shale | 8 | 102 | |
| 19 | lime | 102 | 121 | |
| 29 | shale | 121 | 150 | |
| 3 | lime | 150 | 153 | |
| 44 | shale | 153 | 197 | |
| 15 | lime | 197 | 212 | |
| 10 | shale | 212 | 222 | |
| 27 | lime | 222 | 249 | |
| 11 | coal | 249 | 260 | |
| 18 | lime | 260 | 278 | |
| 4 | coal | 278 | 282 | |
| 12 | lime | 282 | 294 | |
| 138 | shale | 294 | 432 | |
| 3 | lime | 432 | 435 | |
| 12 | sand | 435 | 447 | |
| 5 | lime | 447 | 452 | |
| 7 | shale | 452 | 459 | |
| 11 | lime | 459 | 470 | |
| 47 | shale | 470 | 517 | |
| 7 | lime | 517 | 524 | |
| 16 | shale | 524 | 540 | |
| 3 | lime | 540 | 543 | |
| 15 | black shale | 543 | 558 | |
| 3 | lime | 558 | 561 | |
| 18 | shale | 561 | 579 | |
| 4 | lime | 579 | 583 | |
| 38 | shale | 583 | 621 | |
| 4 | oil sand | 621 | 625 | ok |
| 4 | oil sand | 625 | 629 | ok |
| 4 | oil sand | 629 | 633 | good |
| 5 | oil sand | 633 | 638 | ok |

| | | | | |
|----|----------|-----|-----|--------|
| 4 | oil sand | 638 | 642 | good |
| 4 | oil sand | 642 | 646 | good |
| 4 | oil sand | 646 | 650 | good |
| 4 | oil sand | 650 | 654 | ok |
| 4 | oil sand | 654 | 658 | ok |
| 4 | oil sand | 658 | 662 | good |
| 4 | oil sand | 662 | 666 | v-good |
| 4 | oil sand | 666 | 670 | v-good |
| 4 | oil sand | 670 | 674 | good |
| 4 | oil sand | 674 | 678 | good |
| 4 | oil sand | 678 | 682 | good |
| 4 | oil sand | 682 | 686 | v-good |
| 4 | oil sand | 686 | 690 | v-good |
| 4 | oil sand | 690 | 694 | v-good |
| 2 | oil sand | 694 | 696 | v-good |
| 2 | oil sand | 696 | 698 | v-good |
| 42 | shale | 698 | 740 | |