

Dale Jackson Production Co.
Box 266, Mound City, Ks 66056



Cell # 620-363-2683

Office # 620-363-2696

| | | |
|---|------------------------------|----------------------|
| Surface: 20' of 6" | Cemented: 5 Sacks | Hole Size: 8 3/4" |
| Longstring: 707 of 2 7/8 8" round | Cemented: 90 sacks | Hole Size: 5 5/8 |
| SN: 674' | Packer: | |
| Plugged: | Bottom Plug: | |
| TD: 721' | | |
| Lease: | Schendel | |
| Owner: | Bobcat Oilfield Services Inc | |
| OPR #: | 3895 | |
| Contractor: | DALE JACKSON PRODUCTION CO. | |
| OPR #: | 4339 | |

Well Log

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|-------------------------------------|
| Well #: R4-18 |
| Location: NW,NE,NE,NW, S24-T16-R21E |
| County: Miami |
| FSL: 5055 |
| FEL: 3139 |
| API#: 15-121-31507-00-00 |
| Started: 10/17/18 |
| Completed: 10/18/18 |

| TKN | BTM Depth | Formation | TKN | BTM Depth | Formation |
|-----|-----------|--|-----|-----------|-------------------------------------|
| 1 | 1 | Top Soil | 4 | 653 | Lime |
| 8 | 9 | Clay | 8 | 661 | Shale |
| 11 | 20 | Lime | 1 | 662 | Black Shale |
| 3 | 23 | Shale | 9 | 671 | Shale (very limey) |
| 3 | 26 | Black Shale | 5 | 676 | Light Shale |
| 12 | 38 | Lime | 3 | 679 | Oil Sand (very shaley) (poor bleed) |
| 8 | 46 | Sand | 3 | 682 | Oil Sand (some shale) (fair bleed) |
| 17 | 63 | Lime | 4 | 686 | Oil Sand (shaley) (fair bleed) |
| 3 | 66 | Shale | 3 | 689 | Oil Sand (Some shale) (good bleed) |
| 3 | 69 | Red Bed | 1 | 690 | Oil Sand (very shaley) (fair bleed) |
| 11 | 80 | Sand | 5 | 695 | Shale (oil sand strks) |
| 10 | 90 | Shale | TD | 721 | Shale |
| 19 | 109 | Lime | | | |
| 37 | 146 | Sandy shale (sand strks) (slight water flow) | | | |
| 55 | 201 | Shale | | | |
| 20 | 221 | Lime | | | |
| 7 | 228 | Shale | | | |
| 10 | 238 | Sand | | | |
| 13 | 251 | Shale | | | |
| 5 | 256 | Lime | | | |
| 20 | 276 | Shale | | | |
| 10 | 286 | Sand | | | |
| 11 | 297 | Lime | | | |
| 24 | 321 | Shale | | | |
| 24 | 345 | Lime | | | |
| 8 | 353 | Black | | | |
| 22 | 375 | Lime | | | |
| 5 | 380 | Black shale | | | |
| 4 | 384 | Lime | | | |
| 3 | 387 | Shale | | | |
| 5 | 392 | Lime | | | |
| 129 | 521 | Shale | | | |
| 1 | 522 | Coal | | | |
| 39 | 561 | Shale | | | |
| 6 | 567 | Lime | | | |
| 25 | 592 | Shale | | | Surface 10/17/18, Set Time 3:30 pm |
| 2 | 594 | Coal | | | Called in 2:57 pm, Talked to Brooke |
| 4 | 598 | Shale | | | 707' of 2 7/8 8 round long string |
| 24 | 622 | Shale (limey)(623-624) (oil sand strks) | | | Set Time 2:30 pm, 10/18/18 |
| 7 | 629 | Lime (odor) | | | Called 1:35 pm, Talked to Brooke |
| 2 | 631 | Black shale | | | |
| 8 | 639 | Shale (oil sand strks) (631-632) | | | |
| 10 | 649 | Shale (limey) | | | |