

McGOWAN DRILLING, INC.

Mound City, KS
620.224.7406

| Well # | | | | Casing | | | |
|---------------------------------------|------------|-----------|---------------------------|------------|---------|-------------|------------|
| BREWER #8-I RJ ENERGY, LLC | | | | Surface | | Longstring | |
| | | | | Size: | 7.0 " | Size: | 2 7/8 " |
| | | | | Tally: | 42' ' | Tally: | 974.3 ' |
| | | | | Cement: | 4 sx | Bit: | 5.875 " |
| | | | | Bit: | 9.875 " | Date: | 12/20/2018 |
| API #: | 1503124296 | S-T-R: | 13-23-16E | | | | |
| County: | Coffey | Date: | 12/18/2018 | | | | |
| Top | Base | Formation | | Top | Base | Formation | |
| 0 | 2 | Soil | | 951 | 978 | Sandy Shale | |
| 2 | 20 | Clay | | 978 | | TD | |
| 20 | 30 | Gravel | | | | | |
| 30 | 92 | Shale | | | | | |
| 92 | 106 | Lime | | | | | |
| 106 | 131 | Sand | White | | | | |
| 131 | 179 | Lime | | | | | |
| 179 | 274 | Shale | | | | | |
| 274 | 284 | Lime | | | | | |
| 284 | 294 | Shale | | | | | |
| 294 | 305 | Lime | | | | | |
| 305 | 313 | Shale | | | | | |
| 313 | 317 | Lime | | | | | |
| 317 | 330 | Shale | | | | | |
| 330 | 384 | Lime | | | | | |
| 384 | 390 | Shale | | | | | |
| 390 | 392 | Lime | | | | | |
| 392 | 430 | Shale | | | | | |
| 430 | 500 | Lime | | | | | |
| 500 | 513 | Shale | | | | | |
| 513 | 553 | Lime | | | | | |
| 553 | 743 | Shale | | | | | |
| 743 | 754 | Lime | | | | | |
| 754 | 761 | Shale | | | | | |
| 761 | 772 | Lime | | | | | |
| 772 | 811 | Shale | | | | | |
| 811 | 825 | Lime | | | | | |
| 825 | 842.5 | Shale | | | | | |
| 842.5 | 846 | Lime | | | | | |
| 846 | 882 | Shale | | | | | |
| 882 | 891 | Lime | | | | | |
| 891 | 936 | Shale | | | | | |
| 933 | 935 | Lime | | | | | |
| 935 | 937 | Shale | Sandy, odor, slight bleed | | | | |
| 937 | 935 | Lime | | | | | |
| 938 | 942 | Shale | | | | | |
| 942 | 951 | Sand | | | | | |
| Total Depth: | | | | 978 | | | |

| Sand / Core Detail | | | |
|--------------------|-----|---|--|
| Core #1: | | Core #2: | |
| 942 | 951 | Good soft sand, good bleed, slightly laminated. | |

