

McGOWAN

DRILLING, INC.

Mound City, KS
620.224.7406

| Well # | | | | Casing | | | |
|-----------------------|------------|-------------|---------------------|---------|------------|------------|------------|
| BREWER #1-I | | | | Surface | | Longstring | |
| RJ ENERGY, LLC | | | | Size: | 7.0 " | Size: | 2 7/8 " |
| | | | | Tally: | 40 ' | Tally: | 987 ' |
| API #: | 1503124283 | S-T-R: | 13-23-16E | Cement: | 4 sx | Bit: | 5.875 " |
| County: | Coffey | Date: | 12/11/2018 | Bit: | 9.875 " | Date: | 12/12/2018 |
| Top | Base | Formation | Top | Base | Formation | | |
| 0 | 2 | Soil | | | | | |
| 2 | 22 | Clay | | | | | |
| 22 | 24 | Gravel | | | | | |
| 24 | 96 | Shale | | | | | |
| 96 | 103 | Lime | | | | | |
| 103 | 132 | Sand | | | | | |
| 132 | 169 | Lime | | | | | |
| 169 | 270 | Shale | | | | | |
| 270 | 280 | Lime | | | | | |
| 280 | 292 | Shale | | | | | |
| 292 | 298 | Lime | | | | | |
| 298 | 307 | Shale | | | | | |
| 307 | 389 | Lime | | | | | |
| 389 | 433 | Shale | | | | | |
| 433 | 502 | Lime | | | | | |
| 502 | 512 | Shale | | | | | |
| 512 | 556 | Lime | | | | | |
| 556 | 747 | Shale | | | | | |
| 747 | 771 | Lime | | | | | |
| 771 | 809 | Shale | | | | | |
| 809 | 840 | Lime | | | | | |
| 840 | 845 | Shale | | | | | |
| 845 | 848 | Lime | | | | | |
| 848 | 863 | Shale | | | | | |
| 863 | 874 | Lime | | | | | |
| 874 | 886 | Shale | | | | | |
| 886 | 892 | Lime | | | | | |
| 892 | 905 | Shale | | | | | |
| 905 | 937 | Shale | | | | | |
| 937 | 942 | Sandy Shale | | | | | |
| 942 | 948 | Sand | | | | | |
| 948 | | Sandy Shale | | | | | |
| 992 | | TD | | | | | |
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| | | | Total Depth: | | 992 | | |

| Sand / Core Detail | | | |
|--------------------|-----|--|--|
| Core #1: | | Core #2: | |
| 942 | 945 | Sandy shale and sand. Good odor, slight bleed. | |
| 945 | 948 | Slight odor. Sandy shale, slight bleed in samples. | |