

**Operator:**

Coen Energy Corp.  
Overland Park, KS

**Brodmerkle 2014-2W**

Woodson Co., KS  
30-23S-17E  
API: 207-28827

|                        |                  |                         |           |
|------------------------|------------------|-------------------------|-----------|
| <b>Spud Date:</b>      | 4/15/2014        | <b>Surface Bit:</b>     | 11.0"     |
| <b>Surface Casing:</b> | 7.0"             | <b>Drill Bit:</b>       | 5.875"    |
| <b>Surface Length:</b> | 43.0'            | <b>Longstring:</b>      | 975.25'   |
| <b>Surface Cement:</b> | 22 sx            | <b>Longstring Date:</b> | 4/18/2014 |
| <b>Longstring:</b>     | 2 7/8" EUE - new | <b>Seat Nipple:</b>     | 910.80'   |

**Driller's Log**

| <b>Top</b> | <b>Bottom</b> | <b>Formation</b> | <b>Comments</b> |
|------------|---------------|------------------|-----------------|
| 0          | 13            | Soil & clay      |                 |
| 13         | 16            | Sand             |                 |
| 16         | 24            | Gravel           |                 |
| 24         | 92            | Shale            |                 |
| 92         | 112           | Lime             |                 |
| 112        | 118           | Shale            |                 |
| 118        | 124           | Lime             |                 |
| 124        | 140           | Sand             |                 |
| 140        | 172           | Shale            |                 |
| 172        | 187           | Sandy Shale      |                 |
| 187        | 224           | Bl. Shale        |                 |
| 224        | 267           | Lime             |                 |
| 267        | 275           | Shale            |                 |
| 275        | 281           | Lime             |                 |
| 281        | 308           | Shale            | Limey           |
| 308        | 318           | Sand             | White           |
| 318        | 352           | Lime             |                 |
| 352        | 405           | Shale            |                 |
| 405        | 409           | Lime             |                 |
| 409        | 411           | Shale            |                 |
| 411        | 475           | Lime             |                 |
| 475        | 482           | Shale            |                 |
| 482        | 506           | Lime             |                 |
| 506        | 518           | Shale            |                 |

|            |     |             |                     |
|------------|-----|-------------|---------------------|
|            |     |             | Brodmerkle #2014-2W |
| 518        | 532 | Lime        | Base KC             |
| 532        | 547 | Shale       | Woodson Co, KS      |
| 547        | 564 | Sandy Shale | Oil odor            |
| 564        | 718 | Shale       | Big Shale           |
| 718        | 726 | Lime        |                     |
| 726        | 736 | Shale       |                     |
| 736        | 739 | Sand        |                     |
| 739        | 752 | Sandy Shale |                     |
| 752        | 764 | Shale       |                     |
| 764        | 796 | Sandy Shale |                     |
| 796        | 799 | Lime        |                     |
| 799        | 817 | Shale       |                     |
| 817        | 826 | Lime        |                     |
| 826        | 836 | Shale       |                     |
| 836        | 840 | Lime        |                     |
| 840        | 857 | Shale       |                     |
| 857        | 862 | Lime        |                     |
| 862        | 864 | Shale       |                     |
| 864        | 868 | Lime        |                     |
| 868        | 873 | Shale       |                     |
| 873        | 878 | Lime        | 5'                  |
| 878        | 900 | Shale       |                     |
| 900        | 902 | Sandy Shale |                     |
| 902        | 914 | Shale       |                     |
| 914        | 934 | Sand        | See below           |
| 934        | 946 | Sandy Shale |                     |
| 946        | 982 | Shale       |                     |
| <b>982</b> |     | <b>TD</b>   |                     |

### Sand Detail

|         |                                                       |
|---------|-------------------------------------------------------|
| 914-922 | Good sand, good oil show, good bleed to pit           |
| 922-924 | More laminated, fair oil show                         |
| 924-928 | Laminated sand, lots of shale, lighter oil show       |
| 928-934 | Highly laminated, mostly shale, little to no oil show |
| 934-936 | Sandy shale, no oil show                              |