

## Cementing Service Report

|   |                        |  |                     |                                     |               |                                |  |
|---|------------------------|--|---------------------|-------------------------------------|---------------|--------------------------------|--|
| Customer<br>Whiting   |                        |  |                     | Job Number<br>C459-02445            |               |                                |  |
| Well<br>Razor Fed. 26J-3510B  |                        | Location (legal)   |                     | Schlumberger Location               |               | Job Start<br>Mar/12/2014       |  |
| Field<br>Wildcat  |                        | Formation Name/Type  |                     | Deviation<br>90 deg                 |               | Bit Size<br>6.0 in             |  |
| County<br>Weld  |                        | State/Province<br>Colorado   |                     | Well MD<br>12114.0 ft               |               | Well TVD<br>5720.0 ft          |  |
| Well Master<br>0631506280   |                        | API/UWI<br>05123383440000  |                     | BHP<br>psi                          |               | BHST<br>200 degF               |  |
| Rig Name<br>Xtreme 18   |                        | Drilled For<br>Oil   |                     | Service Via<br>Land                 |               | BHCT<br>200 degF               |  |
| Offshore Zone   |                        | Well Class<br>New  |                     | Well Type<br>Development            |               | Pore Press. Gradient<br>lb/gal |  |
| Drilling Fluid Type<br>Oil Mud  |                        | Max. Density<br>10.00 lb/gal   |                     | Plastic Viscosity<br>cP             |               |                                |  |
| Service Line<br>Cementing   |                        | Job Type<br>Liner  |                     |                                     |               |                                |  |
| Max. Allowed Tub. Press<br>3000 psi   |                        | Max. Allowed Ann. Press<br>psi   |                     | WH Connection<br>Baker CMT Head     |               |                                |  |
| Service Instructions<br>20bbl mudpush @ 11.5#<br>128bbl, 440sk CMT @ 13.5# 1.63 Yield 7.66 gal/sk water |                        |  |                     |                                     |               |                                |  |
| Casing/Liner  |                        |  |                     |                                     |               |                                |  |
| Depth, ft   |                        | Size, in   |                     | Weight, lb/ft                       |               | Grade                          |  |
| 5920.0  |                        | 7.0  |                     | 29.0                                |               |                                |  |
| 12114.0   |                        | 4.5  |                     | 11.6                                |               | P110                           |  |
| Tubing/Drill Pipe   |                        |  |                     |                                     |               |                                |  |
| T/D   |                        | Depth, ft  |                     | Size, in                            |               | Weight, lb/ft                  |  |
| D   |                        | 5014.0   |                     | 4.0                                 |               | 0.0                            |  |
|   |                        | 0.0  |                     | 0.0                                 |               | 0.0                            |  |
| Perforations/Open Hole  |                        |  |                     |                                     |               |                                |  |
| Top, ft   |                        | Bottom, ft   |                     | Shot/ft                             |               | No. of Shots                   |  |
| ft  |                        | ft   |                     |                                     |               |                                |  |
| ft  |                        | ft   |                     |                                     |               |                                |  |
| ft  |                        | ft   |                     |                                     |               |                                |  |
| Total Interval<br>ft  |                        |  |                     |                                     |               |                                |  |
| Diameter<br>in  |                        |  |                     |                                     |               |                                |  |
| Treat Down<br>Drill Pipe  |                        | Displacement<br>141.0 bbl  |                     | Packer Type                         |               | Packer Depth<br>ft             |  |
| Tubing Vol.<br>32.0 bbl   |                        | Casing Vol.<br>110.0 bbl   |                     | Annular Vol.<br>219.0 bbl           |               | Openhole Vol.<br>bbl           |  |
| Squeeze Job   |                        |  |                     |                                     |               |                                |  |
| Casing/Tubing Secured <input checked="" type="checkbox"/>   |                        | 1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/> |                     | Casing Tools                        |               | Squeeze Type                   |  |
| Lift Pressure<br>psi  |                        |  |                     | Shoe Type<br>Float                  |               | Shoe Depth<br>12114.0 ft       |  |
| Pipe Rotated <input type="checkbox"/>   |                        | Pipe Reciprocated <input type="checkbox"/>                                 |                     | Stage Tool Type                     |               | Tool Type                      |  |
| No. Centralizers  |                        | Top Plugs 1 Bottom Plugs   |                     | Stage Tool Depth<br>ft              |               | Tail Pipe Size<br>in           |  |
| Cement Head Type<br>Single  |                        |  |                     | Collar Type<br>Float                |               | Tail Pipe Depth<br>ft          |  |
| Job Scheduled For<br>Mar/11/2014 19:00  |                        | Arrived on Location<br>Mar/11/2014 19:00                                   |                     | Leave Location<br>Mar/12/2014 12:00 |               | Collar Depth<br>12064.0 ft     |  |
| Sqz. Total Vol.<br>bbl  |                        |  |                     |                                     |               |                                |  |
| Message   |                        |  |                     |                                     |               |                                |  |
| Date  | Time<br>24-hr<br>clock | Treating<br>Pressure<br>PSI  | Flow<br>Rate<br>B/M | Density<br>LB/G                     | Volume<br>BBL |                                |  |
| 03/12/2014  | 06:57:32               | -39  | 0.0                 | 8.35                                | 0.0           | Started Acquisition            |  |
| 03/12/2014  | 06:57:39               | -39  | 0.0                 | 8.35                                | 0.0           | Start Job                      |  |
| 03/12/2014  | 07:01:22               | 208  | 1.5                 | 8.35                                | 1.1           | Start Pumping Wash             |  |
| 03/12/2014  | 07:01:42               | 873  | 3.4                 | 8.35                                | 1.9           |                                |  |
| 03/12/2014  | 07:05:52               | 170  | 0.0                 | 8.35                                | 5.1           |                                |  |
| 03/12/2014  | 07:07:10               | 1107   | 0.0                 | 8.35                                | 5.1           | Pressure Test Lines 1000psi    |  |
| 03/12/2014  | 07:09:42               | 5161   | 0.0                 | 8.35                                | 5.1           | Pressure Test Lines 5000psi    |  |
| 03/12/2014  | 07:10:02               | 5149   | 0.0                 | 8.35                                | 5.1           |                                |  |
| 03/12/2014  | 07:14:12               | -28  | 0.0                 | 8.35                                | 5.1           |                                |  |
| 03/12/2014  | 07:17:18               | 1166   | 4.0                 | 11.46                               | 6.3           | Pumping mudpush                |  |
| 03/12/2014  | 07:17:22               | 1246   | 4.0                 | 11.46                               | 6.6           | Reset Total, Vol = 6.58 bbl    |  |
| 03/12/2014  | 07:18:22               | 1290   | 4.0                 | 11.46                               | 10.6          |                                |  |
| 03/12/2014  | 07:22:32               | 481  | 0.0                 | 11.51                               | 22.9          |                                |  |
| 03/12/2014  | 07:22:41               | 484  | 0.0                 | 11.51                               | 22.9          | End mudpush                    |  |
| 03/12/2014  | 07:22:47               | 486  | 0.0                 | 11.51                               | 22.9          | Reset Total, Vol = 16.33 bbl   |  |
| 03/12/2014  | 07:23:37               | 512  | 0.0                 | 11.51                               | 22.9          | Mixing CMT                     |  |
| 03/12/2014  | 07:26:42               | 1069   | 2.5                 | 12.82                               | 23.1          |                                |  |
| 03/12/2014  | 07:26:51               | 1210   | 3.8                 | 13.30                               | 23.5          | Start Cement Slurry            |  |
| 03/12/2014  | 07:30:52               | 1382   | 4.1                 | 13.54                               | 40.1          |                                |  |
| 03/12/2014  | 07:35:02               | 1178   | 4.1                 | 13.49                               | 57.2          |                                |  |
| 03/12/2014  | 07:39:12               | 1082   | 4.1                 | 13.52                               | 74.4          |                                |  |



| Well                 |                  |                       | Field         | Job Start    |            | Customer                          | Job Number |
|----------------------|------------------|-----------------------|---------------|--------------|------------|-----------------------------------|------------|
| Razor Fed. 263-3510B |                  |                       | Wildcat       | Mar/12/2014  |            | Whiting                           | C459-02445 |
| Date                 | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message                           |            |
| 03/12/2014           | 07:47:32         | 1184                  | 4.1           | 13.53        | 108.7      |                                   |            |
| 03/12/2014           | 07:51:42         | 1023                  | 4.1           | 13.53        | 125.9      |                                   |            |
| 03/12/2014           | 07:55:52         | 961                   | 4.1           | 13.53        | 143.1      |                                   |            |
| 03/12/2014           | 07:58:09         | 9                     | 0.0           | 12.57        | 148.7      | End Cement Slurry                 |            |
| 03/12/2014           | 07:58:15         | 7                     | 0.0           | 12.56        | 148.7      | Reset Total, Vol = 125.84 bbl     |            |
| 03/12/2014           | 07:58:44         | 4                     | 0.0           | 12.55        | 148.7      | Drop Top Plug                     |            |
| 03/12/2014           | 07:58:45         | 5                     | 0.0           | 12.55        | 148.7      | Start Displacement                |            |
| 03/12/2014           | 08:00:02         | 1                     | 0.0           | 12.53        | 148.7      |                                   |            |
| 03/12/2014           | 08:04:12         | -0                    | 0.0           | 12.53        | 148.7      |                                   |            |
| 03/12/2014           | 08:08:22         | -0                    | 0.0           | 12.53        | 148.7      |                                   |            |
| 03/12/2014           | 08:10:19         | 902                   | 3.8           | 8.35         | 153.2      | Displacing                        |            |
| 03/12/2014           | 08:12:32         | 1358                  | 4.0           | 8.38         | 162.0      |                                   |            |
| 03/12/2014           | 08:16:42         | 1213                  | 1.8           | 8.35         | 176.4      |                                   |            |
| 03/12/2014           | 08:18:33         | 1382                  | 1.8           | 8.35         | 179.8      | Slow rate to 2bpm                 |            |
| 03/12/2014           | 08:20:52         | 2030                  | 4.0           | 8.35         | 185.1      |                                   |            |
| 03/12/2014           | 08:25:02         | 2241                  | 4.0           | 8.35         | 201.8      |                                   |            |
| 03/12/2014           | 08:26:55         | 2235                  | 4.0           | 8.35         | 209.3      | Maintaining 4bpm 2200psi          |            |
| 03/12/2014           | 08:29:12         | 2196                  | 4.0           | 8.35         | 218.5      |                                   |            |
| 03/12/2014           | 08:33:22         | 2212                  | 4.0           | 8.35         | 235.2      |                                   |            |
| 03/12/2014           | 08:37:32         | 2252                  | 4.0           | 8.35         | 251.9      |                                   |            |
| 03/12/2014           | 08:40:36         | 2223                  | 4.1           | 10.97        | 264.2      | Pumping 5bbl mudpush              |            |
| 03/12/2014           | 08:41:42         | 1731                  | 2.2           | 11.50        | 267.8      |                                   |            |
| 03/12/2014           | 08:44:21         | 2172                  | 4.1           | 8.35         | 278.1      | End mudpush                       |            |
| 03/12/2014           | 08:45:46         | 1646                  | 2.0           | 8.36         | 282.4      | Slow rate to 2bpm                 |            |
| 03/12/2014           | 08:45:52         | 1629                  | 2.0           | 8.36         | 282.6      |                                   |            |
| 03/12/2014           | 08:50:02         | 1611                  | 2.0           | 8.35         | 290.8      |                                   |            |
| 03/12/2014           | 08:50:06         | 1626                  | 2.0           | 8.35         | 290.9      | Lost returns at about 135bbl away |            |
| 03/12/2014           | 08:52:06         | 2251                  | 0.0           | 8.35         | 293.6      | Bump plug at 141bbl away          |            |
| 03/12/2014           | 08:52:14         | 2244                  | 0.0           | 8.35         | 293.6      | Hold pressure                     |            |
| 03/12/2014           | 08:54:12         | -9                    | 0.0           | 8.35         | 293.7      |                                   |            |
| 03/12/2014           | 08:54:25         | -8                    | 0.0           | 8.35         | 293.7      | Bleed pressure                    |            |
| 03/12/2014           | 08:54:43         | -7                    | 0.0           | 8.35         | 293.7      | Floats holding                    |            |
| 03/12/2014           | 08:55:13         | -7                    | 0.0           | 8.35         | 293.7      | 1bbl returned                     |            |
| 03/12/2014           | 08:58:22         | -5                    | 0.0           | 8.35         | 293.7      |                                   |            |
| 03/12/2014           | 09:02:32         | -7                    | 0.0           | 8.35         | 293.7      |                                   |            |
| 03/12/2014           | 09:06:42         | -11                   | 0.0           | 8.36         | 293.7      | Pressure test backside to 1500psi |            |
| 03/12/2014           | 09:07:22         | -11                   | 0.0           | 8.36         | 293.7      | 1520psi                           |            |
| 03/12/2014           | 09:10:08         | 1520                  | 0.0           | 8.36         | 294.5      |                                   |            |
| 03/12/2014           | 09:10:52         | 1514                  | 0.0           | 8.36         | 294.5      |                                   |            |
| 03/12/2014           | 09:15:02         | 1498                  | 0.0           | 8.36         | 294.5      |                                   |            |
| 03/12/2014           | 09:19:12         | 1495                  | 0.0           | 8.36         | 294.5      |                                   |            |
| 03/12/2014           | 09:23:22         | 1503                  | 0.0           | 8.36         | 294.5      | End pressure test                 |            |
| 03/12/2014           | 09:24:03         | 1504                  | 0.0           | 8.36         | 294.5      | Bleed pressure                    |            |
| 03/12/2014           | 09:24:35         | -12                   | 0.0           | 8.36         | 294.5      |                                   |            |
| 03/12/2014           | 09:27:32         | 64                    | 0.0           | 8.36         | 294.5      |                                   |            |
| 03/12/2014           | 09:31:42         | 1257                  | 2.4           | 8.41         | 296.9      |                                   |            |
| 03/12/2014           | 09:32:23         | 1621                  | 0.5           | 8.41         | 298.5      | Start reverse out                 |            |
| 03/12/2014           | 09:35:52         | 1742                  | 0.0           | 8.37         | 298.9      |                                   |            |
| 03/12/2014           | 09:36:06         | 1718                  | 0.0           | 8.37         | 298.9      | Reset Total, Vol = 150.18 bbl     |            |
| 03/12/2014           | 09:40:02         | 1798                  | 0.5           | 8.41         | 299.2      |                                   |            |
| 03/12/2014           | 09:41:50         | 2392                  | 0.0           | 8.39         | 299.7      | Trying to reverse out             |            |
| 03/12/2014           | 09:42:32         | 125                   | 0.0           | 8.38         | 299.7      | bleed pressure                    |            |
| 03/12/2014           | 09:44:12         | 803                   | 0.0           | 8.37         | 299.8      |                                   |            |
| 03/12/2014           | 09:44:34         | 1016                  | 1.0           | 8.39         | 300.0      | start pumping again               |            |

| Well                 |                        |                             | Field               | Job Start       |               | Customer                              | Job Number |
|----------------------|------------------------|-----------------------------|---------------------|-----------------|---------------|---------------------------------------|------------|
| Razor Fed. 26J-3510B |                        |                             | Wildcat             | Mar/12/2014     |               | Whiting                               | C459-02445 |
| Date                 | Time<br>24-hr<br>clock | Treating<br>Pressure<br>PSI | Flow<br>Rate<br>B/M | Density<br>LB/G | Volume<br>BBL | Message                               |            |
|                      |                        |                             |                     |                 |               |                                       |            |
| 03/12/2014           | 09:52:32               | 1374                        | 4.1                 | 8.94            | 329.3         |                                       |            |
| 03/12/2014           | 09:56:42               | 1772                        | 6.0                 | 8.35            | 350.3         |                                       |            |
| 03/12/2014           | 10:00:52               | 1544                        | 6.3                 | 8.34            | 376.1         |                                       |            |
| 03/12/2014           | 10:05:02               | 174                         | 0.0                 | 8.35            | 394.0         |                                       |            |
| 03/12/2014           | 10:09:12               | 169                         | 0.0                 | 8.35            | 394.0         |                                       |            |
| 03/12/2014           | 10:13:22               | 1097                        | 6.3                 | 8.34            | 414.1         |                                       |            |
| 03/12/2014           | 10:17:32               | 1066                        | 6.3                 | 8.34            | 440.5         |                                       |            |
| 03/12/2014           | 10:21:42               | -1                          | 0.0                 | 8.34            | 462.4         |                                       |            |
| 03/12/2014           | 10:25:52               | 1                           | 0.0                 | 8.35            | 462.4         |                                       |            |
| 03/12/2014           | 10:27:21               | -8                          | 0.0                 | 8.35            | 462.4         | Did not see mudpush or CMT to surface |            |

### Post Job Summary

| Average Pump Rates, bbl/min                          |                                     |                 |  |                           | Volume of Fluid Injected, bbl                          |   |   |  |
|--|-------------------------------------|-----------------|--|---------------------------|--|---|---|--|
| Slurry<br>3.4  | N2                                  | Mud             | Maximum Rate<br>6.3                      | Total Slurry<br>128.0     | Mud<br>20.0  | Spacer<br>0.0                             | N2  |  |
| Treating Pressure Summary, psi                       |                                     |                 |  |                           | Breakdown Fluid  |   |   |  |
| Maximum<br>2392                                      | Final<br>0                          | Average<br>1274 | Bump Plug to<br>2100                     | Breakdown                 | Type   | Volume<br>bbl                             | Density<br>lb/gal                                 |  |
| Avg. N2 Percent<br>%                                 | Designed Slurry Volume<br>128.0 bbl |                 | Displacement<br>141.0 bbl                | Mix Water Temp<br>60 degF | Cement Circulated to Surface? <input type="checkbox"/> | Volume<br>bbl                             |   |  |
|  |                                     |                 |  |                           | Washed Thru Perfs <input type="checkbox"/>             | To<br>ft                                  |   |  |
| Customer or Authorized Representative<br>Lewis Young |                                     |                 | Schlumberger Supervisor<br>Chris Valerio |                           |  | Circulation Lost <input type="checkbox"/> | Job Completed <input checked="" type="checkbox"/> |  |
|  |                                     |                 |  |                           |  | -   | -   |  |



|                 |               |                 |            |
|-----------------|---------------|-----------------|------------|
| <b>Well</b>     | Razor Fed.    | <b>Client</b>   | Whiting    |
| <b>Field</b>    | Wildcat       | <b>SIR No.</b>  | C459-02445 |
| <b>Engineer</b> | Chris Valerio | <b>Job Type</b> | Liner      |
| <b>Country</b>  | United States | <b>Job Date</b> | 03-12-2014 |

