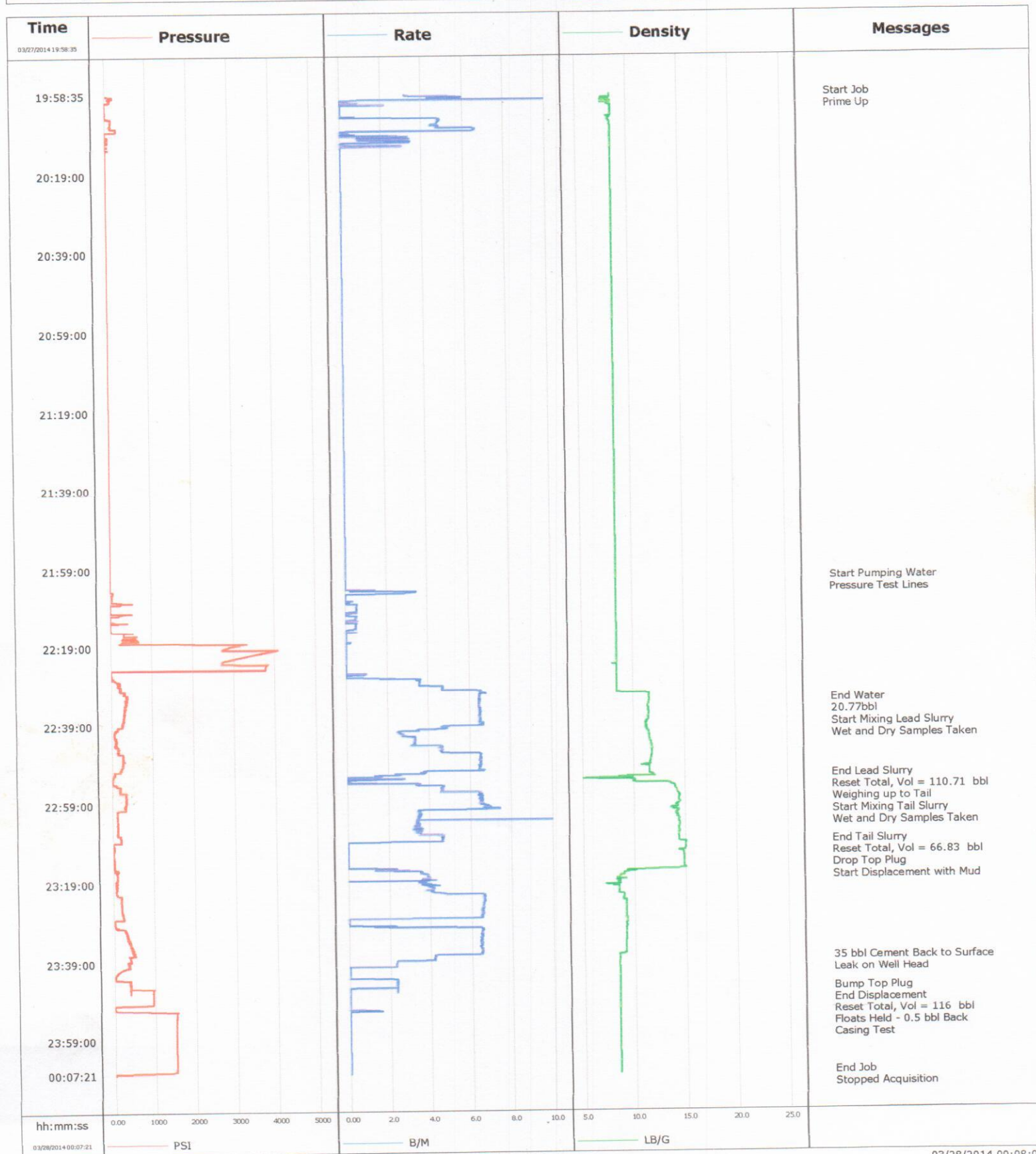




Cementing Job Report

Well Razor Federal 26J-3512B
Field Old 10
Engineer Michael Simon/ T Morrow
Country United States

Client Whiting
SIR No. CMI1-00825
Job Type 9 5/8 Surface
Job Date 03-27-2014



Cementing Service Report

| | | | | | | | | | | | |
|---|------------------------|--|------------------------------|-------------------------------------|---------------------|---------------------------------------|---------------------|---------------------------|--------------------------|----------------------------|--|
| | | | | | Customer Whiting | | | | Job Number CM11-00825 | | |
| Well Razor Federal 26J-3512B 26J-3512B | | | Location (legal) Cheyenne | | | Schlumberger Location Rock Springs | | | Job Start Mar/27/2014 | | |
| Field Old 10 | | Formation Name/Type | | Deviation | | Bit Size 13.5 in | | Well MD 1562.0 ft | | Well TVD | |
| County Weld | | State/Province Colorado | | BHP | | BHST 99 degF | | BHCT 82 degF | | Pore Press. Gradient | |
| Well Master 0631537675 | | API/UWI | | | | | | | | | |
| Rig Name Xtreme 18 | | Drilled For Oil | | Service Via Land | | Casing/Liner | | | | | |
| | | | | | | Depth, ft | | Size, in | | Weight, lb/ft | |
| | | | | | | 1562.0 | | 9.630 | | 36.0 | |
| | | | | | | 0.0 | | 0.000 | | 0.0 | |
| Offshore Zone | | Well Class New | | Well Type Development | | | | | | | |
| | | | | | | | | | | | |
| Drilling Fluid Type | | Max. Density | | Plastic Viscosity | | Tubing/Drill Pipe | | | | | |
| | | | | | | Depth, | | Size, | | Weight, | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Service Line Cementing | | Job Type 9 5/8 Surface | | | | | | | | | |
| | | | | | | | | | | | |
| Max. Allowed Tub. Press 3000 psi | | Max. Allowed Ann. Press | | WH Connection Single Cement head | | Perforations/Open Hole | | | | | |
| | | | | | | Top, | | Bottom, | | No. of Shots | |
| | | | | | | | | | | Total Interval | |
| | | | | | | | | | | Diameter | |
| | | | | | | | | | | | |
| | | | | | | Treat Down Casing | | Displacement 117.0 bbl | | Packer Type | |
| | | | | | | | | | | Packer Depth | |
| | | | | | | Tubing Vol. | | Casing Vol. 120.8 bbl | | Annular Vol. 138.0 bbl | |
| | | | | | | | | | | Openhole Vol. 261.0 bbl | |
| Casing/Tubing Secured <input checked="" type="checkbox"/> | | 1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/> | | Casing Tools | | | | Squeeze Job | | | |
| Lift Pressure 773 psi | | | | Shoe Type Float | | | | Squeeze Type | | | |
| Pipe Rotated <input type="checkbox"/> | | Pipe Reciprocated <input type="checkbox"/> | | Shoe Depth 1562.0 ft | | | | Tool Type | | | |
| No. Centralizers | | Top Plugs 1 | | Bottom Plugs | | Stage Tool Type | | | | Tool Depth | |
| Cement Head Type Single | | | | | | Stage Tool Depth | | | | Tail Pipe Size | |
| Job Scheduled For Mar/27/2014 | | Arrived on Location Mar/27/2014 | | Leave Location Mar/27/2014 | | Collar Type Float | | | | Tail Pipe Depth | |
| | | | | | | Collar Depth 1519.5 ft | | | | Sqz. Total Vol. | |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Satge BBL | Message | | | | |
| 03/27/2014 | 14:22:37 | | | | | | Started Acquisition | | | | |
| 03/27/2014 | 19:58:35 | 49 | 3.2 | 8.39 | 0.1 | 0.1 | | | | | |
| 03/27/2014 | 19:58:36 | | | | | | Start Job | | | | |
| 03/27/2014 | 19:58:36 | 49 | 3.2 | 8.39 | 0.1 | 0.1 | | | | | |
| 03/27/2014 | 19:58:37 | 49 | 3.2 | 8.39 | 0.2 | 0.2 | | | | | |
| 03/27/2014 | 19:58:51 | | | | | | Prime Up | | | | |
| 03/27/2014 | 19:58:51 | 103 | 3.5 | 8.39 | 0.9 | 0.9 | | | | | |
| 03/27/2014 | 20:01:37 | 2 | 0.0 | 8.42 | 7.5 | 7.5 | | | | | |
| 03/27/2014 | 20:04:37 | 143 | 4.9 | 8.25 | 8.5 | 8.5 | | | | | |
| 03/27/2014 | 20:07:37 | 17 | 4.0 | 8.39 | 24.1 | 24.1 | | | | | |
| 03/27/2014 | 20:10:37 | 3 | 0.3 | 8.39 | 28.3 | 28.3 | | | | | |
| 03/27/2014 | 20:13:37 | 4 | 0.0 | 8.39 | 29.2 | 29.2 | | | | | |
| 03/27/2014 | 20:16:37 | 5 | 0.0 | 8.39 | 29.2 | 29.2 | | | | | |
| 03/27/2014 | 20:19:37 | 5 | 0.0 | 8.39 | 29.2 | 29.2 | | | | | |
| 03/27/2014 | 20:22:37 | 5 | 0.0 | 8.39 | 29.2 | 29.2 | | | | | |
| 03/27/2014 | 20:25:37 | 5 | 0.0 | 8.39 | 29.2 | 29.2 | | | | | |
| 03/27/2014 | 20:28:37 | 5 | 0.0 | 8.39 | 29.2 | 29.2 | | | | | |
| 03/27/2014 | 20:31:37 | 5 | 0.0 | 8.39 | 29.2 | 29.2 | | | | | |
| 03/27/2014 | 20:34:37 | 6 | 0.0 | 8.39 | 29.2 | 29.2 | | | | | |
| 03/27/2014 | 20:37:37 | 7 | 0.0 | 8.39 | 29.2 | 29.2 | | | | | |
| | | | | | | | | | | | |

| Well | | | Field | | Job Start | Customer | | Job Number |
|-----------------------------------|------------------|-----------------------|---------------|--------------|-------------|-----------|---------------------|------------|
| Razor Federal 26J-3512B 26J-3512B | | | Old 10 | | Mar/27/2014 | Whiting | | CM11-00825 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Satge BBL | Message | |
| 03/27/2014 | 20:46:37 | 8 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 20:49:37 | 9 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 20:52:37 | 9 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 20:55:37 | 9 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 20:58:37 | 9 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:01:37 | 9 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:04:37 | 8 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:07:37 | 8 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:10:37 | 7 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:13:37 | 7 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:16:37 | 8 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:19:37 | 8 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:22:37 | 8 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:25:37 | 7 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:28:37 | 7 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:31:37 | 7 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:34:37 | 6 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:37:37 | 6 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:40:37 | 6 | 0.0 | 8.39 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:43:37 | 6 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:46:37 | 7 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:49:37 | 8 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:52:37 | 7 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:55:37 | 7 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 21:58:37 | 7 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 22:01:16 | | | | | | Start Pumping Water | |
| 03/27/2014 | 22:01:16 | 7 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 22:01:18 | | | | | | Pressure Test Lines | |
| 03/27/2014 | 22:01:18 | 7 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 22:01:37 | 7 | 0.0 | 8.40 | 29.2 | 29.2 | | |
| 03/27/2014 | 22:04:37 | 68 | 3.3 | 8.40 | 29.7 | 29.7 | | |
| 03/27/2014 | 22:07:37 | 198 | 0.0 | 8.39 | 31.6 | 31.6 | | |
| 03/27/2014 | 22:10:37 | 11 | 0.0 | 8.40 | 32.7 | 32.7 | | |
| 03/27/2014 | 22:13:37 | 8 | 0.5 | 8.40 | 34.0 | 34.0 | | |
| 03/27/2014 | 22:16:37 | 297 | 0.0 | 8.39 | 34.4 | 34.4 | | |
| 03/27/2014 | 22:19:37 | 2719 | 0.0 | 8.39 | 34.4 | 34.4 | | |
| 03/27/2014 | 22:22:37 | 2720 | 0.0 | 8.39 | 34.4 | 34.4 | | |
| 03/27/2014 | 22:25:37 | 5 | 0.0 | 8.39 | 34.4 | 34.4 | | |
| 03/27/2014 | 22:28:37 | 205 | 3.5 | 8.39 | 40.3 | 40.3 | | |
| 03/27/2014 | 22:31:37 | 382 | 6.5 | 11.56 | 56.9 | 56.9 | | |
| 03/27/2014 | 22:32:39 | | | | | | End Water | |
| 03/27/2014 | 22:32:39 | 377 | 6.4 | 11.60 | 63.6 | 63.6 | | |
| 03/27/2014 | 22:32:41 | | | | | | 20.77bbl | |

| Well | | | Field | | Job Start | | Customer | | Job Number |
|-----------------------------------|------------------|-----------------------|---------------|--------------|-------------|-----------|-------------------------------|--|------------|
| Razor Federal 26J-3512B 26J-3512B | | | Old 10 | | Mar/27/2014 | | Whiting | | CM11-00825 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Satge BBL | Message | | |
| 03/27/2014 | 22:51:43 | 27 | 1.6 | 11.89 | 164.3 | 99.6 | | | |
| 03/27/2014 | 22:51:44 | | | | | | Reset Total, Vol = 110.71 bbl | | |
| 03/27/2014 | 22:51:44 | 28 | 1.5 | 11.89 | 164.4 | 99.6 | | | |
| 03/27/2014 | 22:51:54 | | | | | | Weighing up to Tail | | |
| 03/27/2014 | 22:51:54 | 29 | 1.6 | 11.96 | 164.6 | 99.8 | | | |
| 03/27/2014 | 22:52:37 | 15 | 0.0 | 4.97 | 164.8 | 100.1 | | | |
| 03/27/2014 | 22:55:21 | | | | | | Start Mixing Tail Slurry | | |
| 03/27/2014 | 22:55:21 | 196 | 4.6 | 14.15 | 172.2 | 107.5 | | | |
| 03/27/2014 | 22:55:37 | 199 | 4.6 | 14.17 | 173.5 | 1.0 | | | |
| 03/27/2014 | 22:58:37 | 338 | 6.5 | 14.42 | 192.6 | 20.1 | | | |
| 03/27/2014 | 23:01:18 | | | | | | Wet and Dry Samples Taken | | |
| 03/27/2014 | 23:01:18 | 119 | 3.5 | 14.13 | 207.6 | 35.2 | | | |
| 03/27/2014 | 23:01:37 | 127 | 3.5 | 14.13 | 208.8 | 36.3 | | | |
| 03/27/2014 | 23:04:37 | 128 | 3.3 | 14.39 | 222.0 | 49.5 | | | |
| 03/27/2014 | 23:07:37 | 199 | 4.6 | 14.33 | 233.5 | 61.0 | | | |
| 03/27/2014 | 23:08:38 | | | | | | End Tail Slurry | | |
| 03/27/2014 | 23:08:38 | | | | | | Reset Total, Vol = 66.83 bbl | | |
| 03/27/2014 | 23:08:38 | 52 | 3.8 | 14.33 | 238.1 | 65.7 | | | |
| 03/27/2014 | 23:08:39 | | | | | | Drop Top Plug | | |
| 03/27/2014 | 23:08:39 | | | | | | Start Displacement with Mud | | |
| 03/27/2014 | 23:08:39 | 29 | 3.0 | 14.33 | 238.2 | 65.7 | | | |
| 03/27/2014 | 23:10:37 | 26 | 0.0 | 14.95 | 238.3 | 0.0 | | | |
| 03/27/2014 | 23:13:37 | 25 | 0.0 | 14.84 | 238.3 | 0.0 | | | |
| 03/27/2014 | 23:16:37 | 89 | 3.6 | 9.04 | 242.0 | 3.7 | | | |
| 03/27/2014 | 23:19:37 | 76 | 4.1 | 8.18 | 253.3 | 15.0 | | | |
| 03/27/2014 | 23:22:37 | 189 | 6.6 | 8.89 | 267.5 | 29.2 | | | |
| 03/27/2014 | 23:25:37 | 209 | 6.5 | 9.14 | 287.2 | 48.9 | | | |
| 03/27/2014 | 23:28:37 | 33 | 0.0 | 9.17 | 301.5 | 63.2 | | | |
| 03/27/2014 | 23:31:37 | 311 | 6.5 | 9.15 | 311.7 | 73.4 | | | |
| 03/27/2014 | 23:34:37 | 403 | 6.5 | 9.11 | 331.1 | 92.8 | | | |
| 03/27/2014 | 23:37:37 | 401 | 4.2 | 8.45 | 349.1 | 110.8 | | | |
| 03/27/2014 | 23:37:57 | | | | | | 35 bbl Cement Back to Surface | | |
| 03/27/2014 | 23:37:57 | 403 | 4.2 | 8.45 | 350.5 | 112.2 | | | |
| 03/27/2014 | 23:40:28 | | | | | | Leak on Well Head | | |
| 03/27/2014 | 23:40:28 | 203 | 0.0 | 8.41 | 356.3 | 118.0 | | | |
| 03/27/2014 | 23:40:37 | 175 | 0.0 | 8.41 | 356.3 | 118.0 | | | |
| 03/27/2014 | 23:43:37 | 383 | 2.3 | 8.40 | 357.7 | 119.4 | | | |
| 03/27/2014 | 23:45:46 | | | | | | Bump Top Plug | | |
| 03/27/2014 | 23:45:46 | | | | | | End Displacement | | |
| 03/27/2014 | 23:45:46 | 945 | 0.0 | 8.40 | 361.7 | 123.4 | | | |
| 03/27/2014 | 23:45:51 | | | | | | Reset Total, Vol = 116 bbl | | |
| 03/27/2014 | 23:45:51 | 944 | 0.0 | 8.40 | 361.7 | 123.4 | | | |
| 03/27/2014 | 23:46:37 | 945 | 0.0 | 8.40 | 361.7 | 0.0 | | | |
| 03/27/2014 | 23:49:37 | 92 | 0.0 | 8.40 | 361.7 | 0.0 | | | |
| 03/27/2014 | 23:50:24 | | | | | | Floats Held - 0.5 bbl Back | | |
| 03/27/2014 | 23:50:24 | 20 | 0.0 | 8.40 | 361.7 | 0.0 | | | |
| 03/27/2014 | 23:50:37 | | | | | | Casing Test | | |
| 03/27/2014 | 23:50:37 | 27 | 0.0 | 8.40 | 361.7 | 0.0 | | | |
| 03/27/2014 | 23:52:37 | 1508 | 0.0 | 8.40 | 362.4 | 0.7 | | | |
| 03/27/2014 | 23:55:37 | 1504 | 0.0 | 8.41 | 362.4 | 0.7 | | | |
| 03/27/2014 | 23:58:37 | 1503 | 0.0 | 8.41 | 362.4 | 0.7 | | | |
| 03/28/2014 | 00:01:37 | 1500 | 0.0 | 8.41 | 362.4 | 0.7 | | | |
| 03/28/2014 | 00:04:37 | 1498 | 0.0 | 8.41 | 362.4 | 0.7 | | | |
| 03/28/2014 | 00:07:19 | | | | | | End Job | | |

| | | | | | | | | | |
|---|------------------------|-----------------------------|---------------------|-----------------|--------------------------|---------------------|---------|--------------------------|--|
| Well Razor Federal 26J-3512B 26J-3512B | | | Field Old 10 | | Job Start Mar/27/2014 | Customer Whiting | | Job Number CMI1-00825 | |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Satge BBL | Message | | |
| 03/28/2014 | 00:07:21 | 18 | 0.0 | 8.41 | 362.4 | 0.7 | | | |

Post Job Summary

| | | | | | | | | | | |
|--|-------------------------------------|----------------|---------------------------|---|--|--|---------|--|--|--|
| Average Pump Rates, bbl/min | | | | | Volume of Fluid Injected, bbl | | | | | |
| Slurry 4.4 | N2 | Mud 0.0 | Maximum Rate 178.9 | Total Slurry 177.0 | Mud 0.0 | Spacer 20.0 | N2 | | | |
| Treating Pressure Summary, psi | | | | | Breakdown Fluid | | | | | |
| Maximum 4080 | Final 18 | Average 277 | Bump Plug to | Breakdown | Type | Volume | Density | | | |
| Avg. N2 Percent | Designed Slurry Volume 175.0 bbl | | Displacement 116.0 bbl | Mix Water Temp 59 degF | Cement Circulated to Surface? <input checked="" type="checkbox"/> | Volume 35.0 bbl | | | | |
| Customer or Authorized Representative Kyle Renton | | | | Washed Thru Perfs <input type="checkbox"/> | | To | | | | |
| | | | | Circulation Lost <input type="checkbox"/> | | Job Completed <input checked="" type="checkbox"/> | | | | |
| | | | | - | | - | | | | |