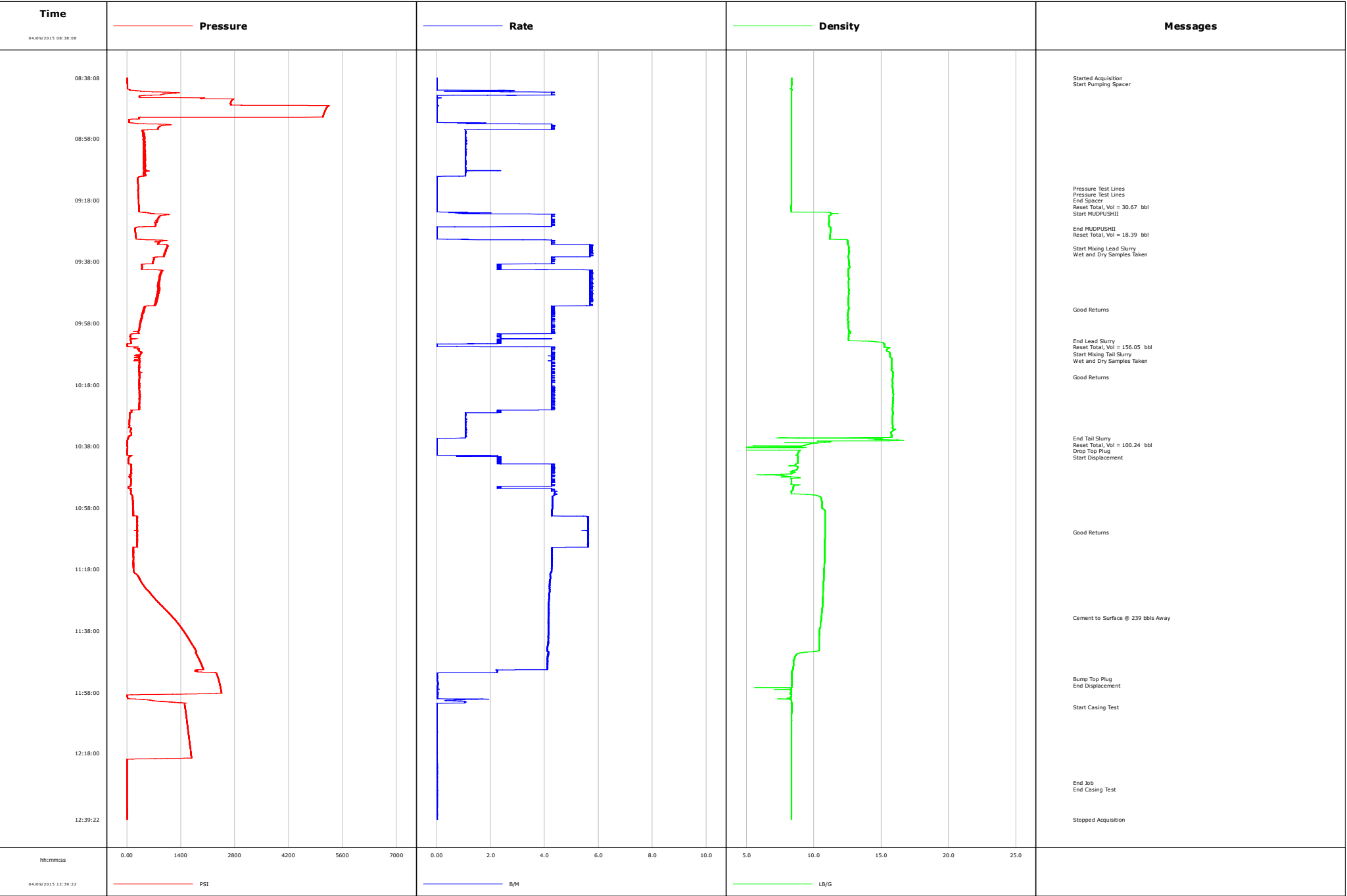


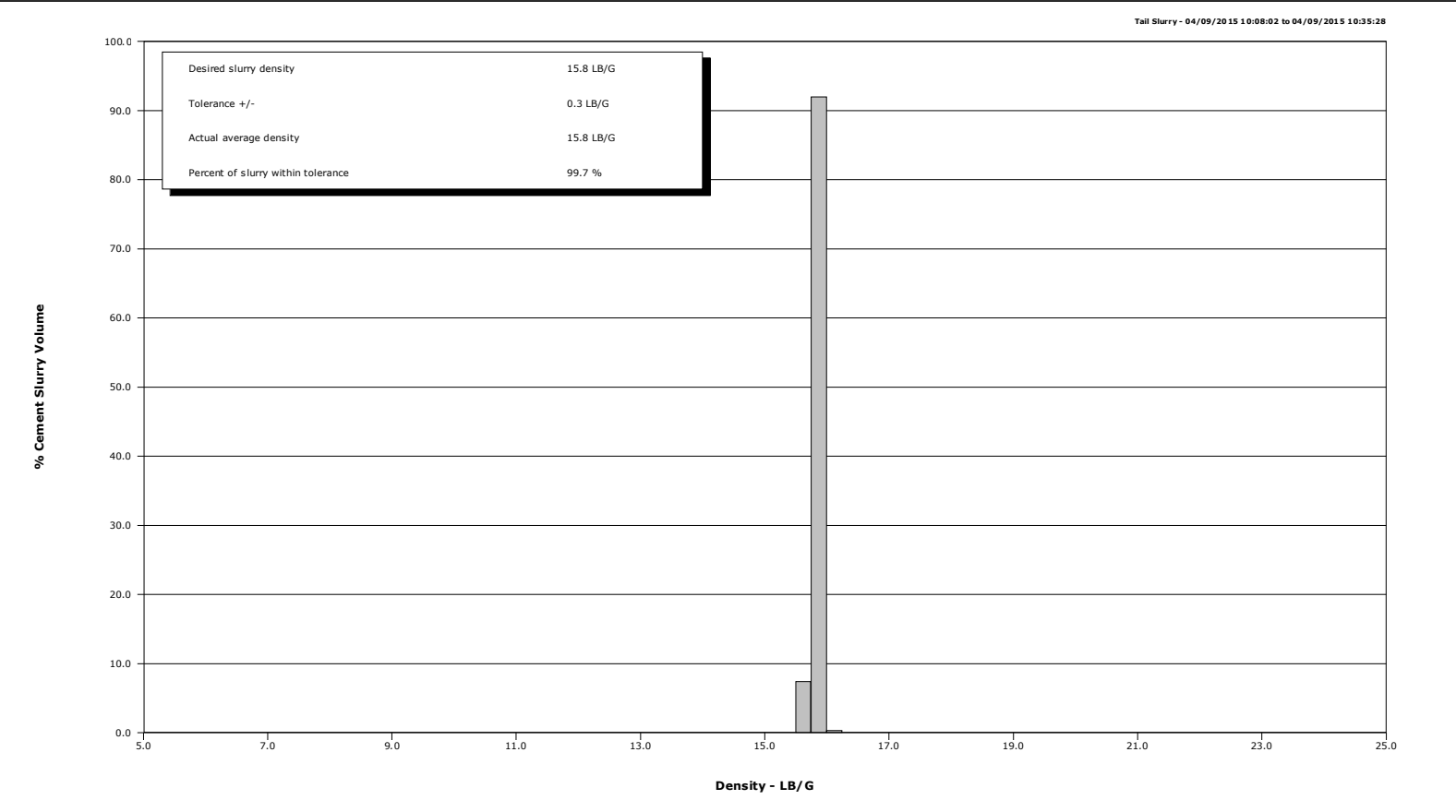
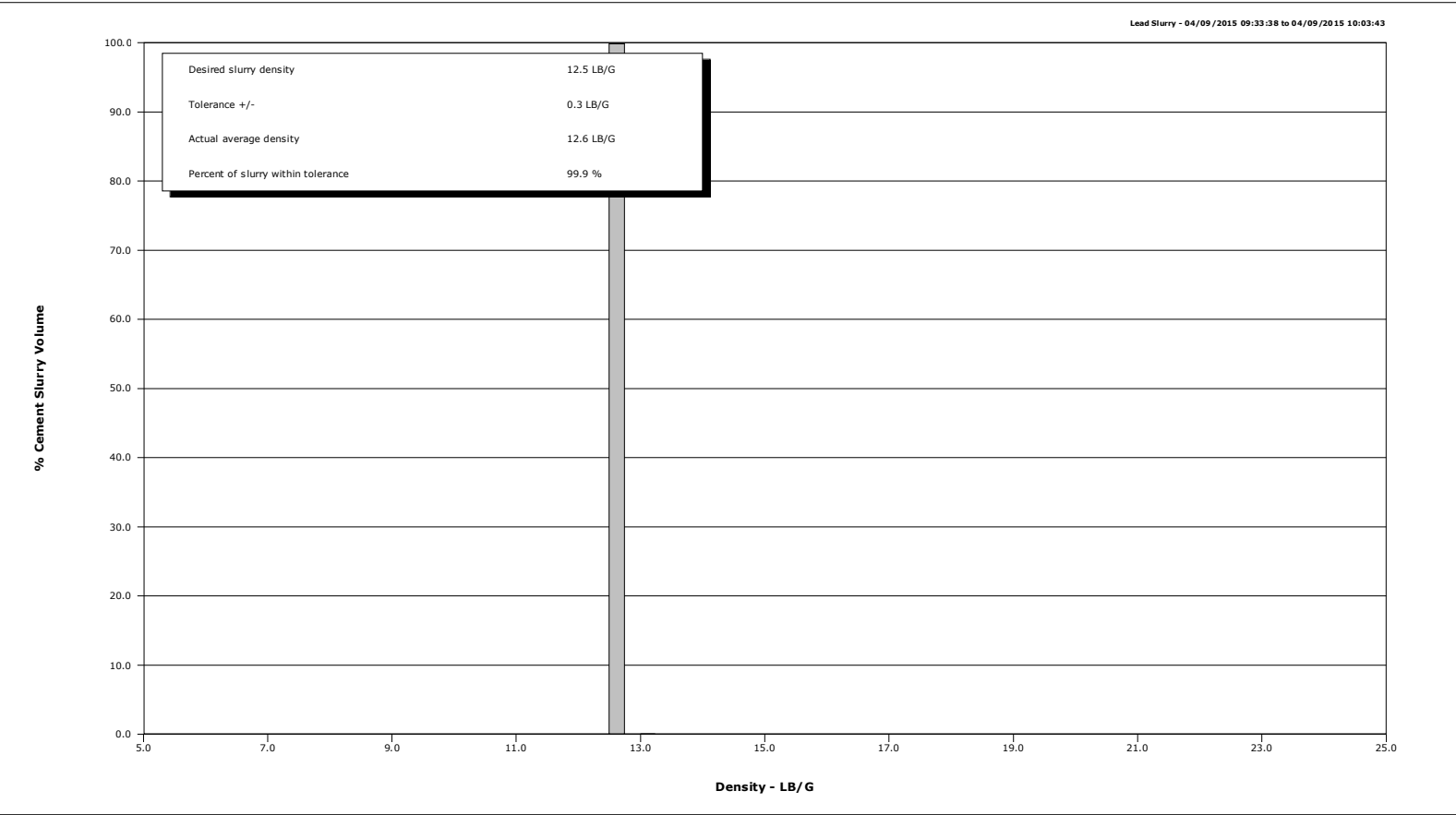
| | | | |
|-----------------|-------------------------------|-----------------|--------------|
| Well | Habitat | Client | Extraction |
| Field | Wattenberg | SIR No. | D5VO-00430 |
| Engineer | Wayne Silvester/Justin Storey | Job Type | Intermediate |
| Country | United States | Job Date | 04-09-2015 |





Cementing Qa/Qc Density Report

| | | | |
|----------|-------------------------------|----------|--------------|
| Well | Habitat | Client | Extraction |
| Field | Wattenberg | SIR No. | D5VO-00430 |
| Engineer | Wayne Silvester/Justin Storey | Job Type | Intermediate |
| Country | United States | Job Date | 04-09-2015 |





Cementing Service Report

| | | | | | | | | | | | |
|---|------------------------|--|----------------------------|--------------------------------|--|-----------------------------------|--|------------------------------|--------------------------|--------------------------------|--|
| | | | | Customer Extraction | | | | Job Number DSVO-00430 | | | |
| Well Habitat C4-5-6 | | | Location (legal) 217304 | | | Schlumberger Location Cheyenne | | | Job Start Apr/09/2015 | | |
| Field Wattenberg | | Formation Name/Type | | Deviation deg | | Bit Size 8.8 in | | Well MD 7712.0 ft | | Well TVD 7755.0 ft | |
| County Weld | | State/Province Colorado | | BHP 1608 psi | | BHST 208 degF | | BHCT 176 degF | | Pore Press. Gradient lb/gal | |
| Well Master 0631619610 | | API/UWI | | | | | | | | | |
| Rig Name Savanna 802 | | Drilled For Oil & Gas | | Service Via Land | | Casing/Liner | | | | | |
| | | | | | | Depth, ft | | Size, in | | Weight, lb/ft | |
| | | | | | | | | | | Grade | |
| | | | | | | | | | | Thread | |
| Offshore Zone | | Well Class New | | Well Type Other | | 7755.0 | | 7.0 | | 26.0 | |
| | | | | | | 0.0 | | 0.0 | | 0.0 | |
| Drilling Fluid Type Bentonite | | Max. Density 10.30 lb/gal | | Plastic Viscosity cP | | Tubing/Drill Pipe | | | | | |
| | | | | | | T/D | | Depth, ft | | Size, in | |
| | | | | | | | | | | Weight, lb/ft | |
| | | | | | | | | | | Grade | |
| | | | | | | | | | | Thread | |
| Service Line Cementing | | Job Type Intermediate | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Max. Allowed Tub. Press psi | | Max. Allowed Ann. Press 3500 psi | | WH Connection 7 Double Plug | | Perforations/Open Hole | | | | | |
| | | | | | | Top, ft | | Bottom, ft | | shot/ft | |
| | | | | | | | | | | No. of Shots | |
| | | | | | | ft | | ft | | | |
| | | | | | | | | | | Total Interval ft | |
| | | | | | | ft | | ft | | | |
| | | | | | | | | | | Diameter in | |
| | | | | | | ft | | ft | | | |
| Service Instructions 1. ME (Move in) Schlumberger equipment. 2. Conduct Rig-up, Prime-up and pressure test safety meeting. 3. Rig (up) Schlumberger equipment and pressure test to customer master valve. 4. Conduct pre-job safety meeting. 5. Perform treatment per design dumping schedule and instructions of client representative: 6. 20 bbls MP Express @ 11 bpm 7. 153 bbls Lead @ 12.5 bpm +/- 0.2 bpm and +/- 1 bpm 8. 108.5 bbls Tail @ 15.8 bpm +/- 0.2 bpm and +/- 1 bpm 9. Displace 297.3 bbls mud or water (confirm with client) 10. Slow down to 2 bpm for last 10 bbls of displacement 11. Pump plug 500 psi over final circulating pressure. 12. Conduct seal job tie down meeting. 13. Rig down Schlumberger equipment. 14. Conduct convoy meeting and move out Schlumberger equipment. 7 | | | | | | Treat Down | | Displacement 295.0 bbl | | Packer Type | |
| | | | | | | | | | | Packer Depth ft | |
| | | | | | | Tubing Vol. bbl | | Casing Vol. 297.0 bbl | | Annular Vol. 31.0 bbl | |
| | | | | | | | | | | Openhole Vol. 179.0 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 1608 psi | | | | | | Shoe Type Guide | | Squeeze Type | | | |
| Pipe Rotated <input type="checkbox"/> | | Pipe Reciprocated <input type="checkbox"/> | | | | Shoe Depth 7755.0 ft | | Tool Type | | | |
| No. Centralizers | | Top Plugs 1 | | Bottom Plugs 1 | | Stage Tool Type | | Tool Depth ft | | | |
| Cement Head Type Double | | | | | | Stage Tool Depth ft | | Tail Pipe Size in | | | |
| Job Scheduled For Apr/09/2015 | | Arrived on Location Apr/09/2015 | | Leave Location Apr/09/2015 | | Collar Type Float | | Tail Pipe Depth ft | | | |
| | | | | | | Collar Depth 7712.0 ft | | Sqp. Total Vol. bbl | | | |
| Date | Time 24-hr clock | Flow Rate B/M | | Density LB/G | | Volume BBL | | Message | | | |
| 04/09/2015 | 08:38:08 | 0.0 | | 8.34 | | 0.0 | | Start Job | | | |
| 04/09/2015 | 08:38:23 | 0.0 | | 8.34 | | 0.0 | | Start Pumping Spacer | | | |
| 04/09/2015 | 08:43:09 | 4.3 | | 8.33 | | 2.9 | | | | | |
| 04/09/2015 | 08:48:10 | 0.0 | | 8.33 | | 5.8 | | | | | |
| 04/09/2015 | 08:53:11 | 4.3 | | 8.33 | | 6.7 | | | | | |
| 04/09/2015 | 08:58:12 | 1.1 | | 8.33 | | 17.8 | | | | | |
| 04/09/2015 | 09:03:13 | 1.1 | | 8.33 | | 23.2 | | | | | |
| 04/09/2015 | 09:08:14 | 1.1 | | 8.33 | | 28.5 | | | | | |
| 04/09/2015 | 09:13:15 | 0.0 | | 8.33 | | 30.7 | | | | | |
| 04/09/2015 | 09:14:05 | 0.0 | | 8.33 | | 30.7 | | Pressure Test Lines | | | |
| 04/09/2015 | 09:14:06 | 0.0 | | 8.33 | | 30.7 | | Pressure Test Lines | | | |
| 04/09/2015 | 09:14:08 | 0.0 | | 8.33 | | 30.7 | | End Spacer | | | |
| 04/09/2015 | 09:14:09 | 0.0 | | 8.33 | | 30.7 | | Reset Total, Vol = 30.67 bbl | | | |
| 04/09/2015 | 09:14:11 | 0.0 | | 8.33 | | 30.7 | | Start MUDPUSHII | | | |
| 04/09/2015 | 09:18:16 | 0.0 | | 8.33 | | 30.7 | | | | | |
| 04/09/2015 | 09:23:17 | 4.3 | | 11.11 | | 35.1 | | | | | |
| 04/09/2015 | 09:27:05 | 0.0 | | 11.23 | | 49.1 | | End MUDPUSHII | | | |
| 04/09/2015 | 09:27:06 | 0.0 | | 11.23 | | 49.1 | | Reset Total, Vol = 18.39 bbl | | | |
| 04/09/2015 | 09:28:18 | 0.0 | | 11.23 | | 49.1 | | | | | |
| 04/09/2015 | 09:33:19 | 5.7 | | 12.58 | | 61.4 | | | | | |
| 04/09/2015 | 09:33:38 | 5.8 | | 12.58 | | 63.2 | | Start Mixing Lead Slurry | | | |

| Well Habitat C4-5-6 | | | Field Wattenberg | | Job Start Apr/09/2015 | Customer Extraction | Job Number DSVO-00430 |
|------------------------|------------------------|---------------------|---------------------|--|--------------------------|-----------------------------------|--------------------------|
| Date | Time 24-hr clock | Flow Rate B/M | Density LB/G | | Volume BBL | Message | |
| 04/09/2015 | 09:38:20 | 4.3 | 12.59 | | 87.2 | | |
| 04/09/2015 | 09:43:21 | 5.8 | 12.58 | | 108.9 | | |
| 04/09/2015 | 09:48:22 | 5.8 | 12.58 | | 137.4 | | |
| 04/09/2015 | 09:53:23 | 4.3 | 12.59 | | 164.4 | Good Returns | |
| 04/09/2015 | 09:58:24 | 4.3 | 12.54 | | 185.8 | | |
| 04/09/2015 | 10:03:25 | 2.4 | 12.57 | | 203.8 | | |
| 04/09/2015 | 10:03:43 | 2.4 | 13.42 | | 204.4 | End Lead Slurry | |
| 04/09/2015 | 10:04:00 | 2.2 | 14.62 | | 205.1 | Reset Total, Vol = 156.05 bbl | |
| 04/09/2015 | 10:08:02 | 4.3 | 15.64 | | 217.0 | Start Mixing Tail Slurry | |
| 04/09/2015 | 10:08:24 | 4.3 | 15.65 | | 218.6 | Wet and Dry Samples Taken | |
| 04/09/2015 | 10:08:26 | 4.3 | 15.65 | | 218.7 | | |
| 04/09/2015 | 10:13:27 | 4.3 | 15.82 | | 240.1 | | |
| 04/09/2015 | 10:15:29 | 4.3 | 15.85 | | 248.8 | Good Returns | |
| 04/09/2015 | 10:18:28 | 4.3 | 15.83 | | 261.5 | | |
| 04/09/2015 | 10:23:29 | 4.3 | 15.85 | | 283.0 | | |
| 04/09/2015 | 10:28:30 | 1.1 | 15.82 | | 298.0 | | |
| 04/09/2015 | 10:33:31 | 1.1 | 15.72 | | 303.4 | | |
| 04/09/2015 | 10:35:28 | 0.0 | 14.69 | | 305.3 | End Tail Slurry | |
| 04/09/2015 | 10:35:29 | 0.0 | 14.85 | | 305.3 | Reset Total, Vol = 100.24 bbl | |
| 04/09/2015 | 10:35:46 | 0.0 | 14.59 | | 305.3 | Drop Top Plug | |
| 04/09/2015 | 10:35:47 | 0.0 | 15.09 | | 305.3 | Start Displacement | |
| 04/09/2015 | 10:38:32 | 0.0 | 5.42 | | 305.3 | | |
| 04/09/2015 | 10:43:33 | 2.4 | 8.79 | | 311.2 | | |
| 04/09/2015 | 10:48:34 | 4.4 | 8.33 | | 332.3 | | |
| 04/09/2015 | 10:53:35 | 4.4 | 9.34 | | 352.5 | | |
| 04/09/2015 | 10:58:36 | 4.3 | 10.77 | | 374.1 | | |
| 04/09/2015 | 11:03:37 | 5.6 | 10.83 | | 399.4 | | |
| 04/09/2015 | 11:05:57 | 5.6 | 10.83 | | 412.5 | Good Returns | |
| 04/09/2015 | 11:08:38 | 5.6 | 10.81 | | 427.5 | | |
| 04/09/2015 | 11:13:39 | 4.3 | 10.79 | | 451.9 | | |
| 04/09/2015 | 11:18:40 | 4.2 | 10.75 | | 473.3 | | |
| 04/09/2015 | 11:23:41 | 4.2 | 10.70 | | 494.4 | | |
| 04/09/2015 | 11:28:42 | 4.2 | 10.65 | | 515.3 | | |
| 04/09/2015 | 11:33:43 | 4.1 | 10.56 | | 536.1 | | |
| 04/09/2015 | 11:33:48 | 4.2 | 10.56 | | 536.5 | Cement to Surface @ 239 bbis Away | |
| 04/09/2015 | 11:38:44 | 4.2 | 10.40 | | 556.9 | | |
| 04/09/2015 | 11:43:45 | 4.1 | 10.38 | | 577.7 | | |
| 04/09/2015 | 11:48:46 | 4.1 | 8.48 | | 598.3 | | |
| 04/09/2015 | 11:53:43 | 0.0 | 8.36 | | 608.4 | Bump Top Plug | |
| 04/09/2015 | 11:53:47 | 0.0 | 8.36 | | 608.4 | | |
| 04/09/2015 | 11:58:48 | 0.0 | 8.32 | | 608.5 | | |
| 04/09/2015 | 12:02:51 | 0.0 | 8.34 | | 609.9 | Start Casing Test | |
| 04/09/2015 | 12:03:49 | 0.0 | 8.34 | | 609.9 | | |
| 04/09/2015 | 12:08:50 | 0.0 | 8.34 | | 609.9 | | |
| 04/09/2015 | 12:13:51 | 0.0 | 8.34 | | 609.9 | | |
| 04/09/2015 | 12:18:52 | 0.0 | 8.34 | | 610.0 | | |
| 04/09/2015 | 12:23:53 | 0.0 | 8.33 | | 610.0 | | |
| 04/09/2015 | 12:27:29 | 0.0 | 8.33 | | 610.1 | End Job | |
| 04/09/2015 | 12:27:41 | 0.0 | 8.33 | | 610.1 | End Casing Test | |
| 04/09/2015 | 12:28:54 | 0.0 | 8.33 | | 610.1 | | |
| 04/09/2015 | 12:33:55 | 0.0 | 8.33 | | 610.2 | | |
| 04/09/2015 | 12:38:56 | 0.0 | 8.33 | | 610.3 | | |

| | | | | |
|------------------------|---------------------|--------------------------|------------------------|--------------------------|
| Well Habitat C4-5-6 | Field Wattenberg | Job Start Apr/09/2015 | Customer Extraction | Job Number DSVO-00430 |
|------------------------|---------------------|--------------------------|------------------------|--------------------------|

Post Job Summary

| Average Pump Rates, bbl/min | | | | | Volume of Fluid Injected, bbl | | | |
|---------------------------------------|------------|-------------------------------------|-------------------------------|---------------------------|--|--|--|----|
| Slurry 3.0 | N2 | | Mud | Maximum Rate 5.8 | Total Slurry 256.3 | Mud 20.0 | Spacer 30.7 | N2 |
| Treating Pressure Summary, psi | | | | | Breakdown Fluid | | | |
| Maximum 5261 | Final 0 | Average 742 | Bump Plug to 2108 | Breakdown | Type | Volume bbl | Density lb/gal | |
| Avg. N2 Percent % | | Designed Slurry Volume 263.0 bbl | Displacement 295.0 bbl | Mix Water Temp 67 degF | Cement Circulated to Surface? <input checked="" type="checkbox"/> | Volume 56.0 bbl | | |
| | | | | | Washed Thru Perfs <input type="checkbox"/> | To ft | | |
| Customer or Authorized Representative | | | Schlumberger Supervisor | | | Circulation Lost <input type="checkbox"/> | Job Completed <input checked="" type="checkbox"/> | |
| Brandon Patch | | | Wayne Silvester/Justin Storey | | | - | - | |