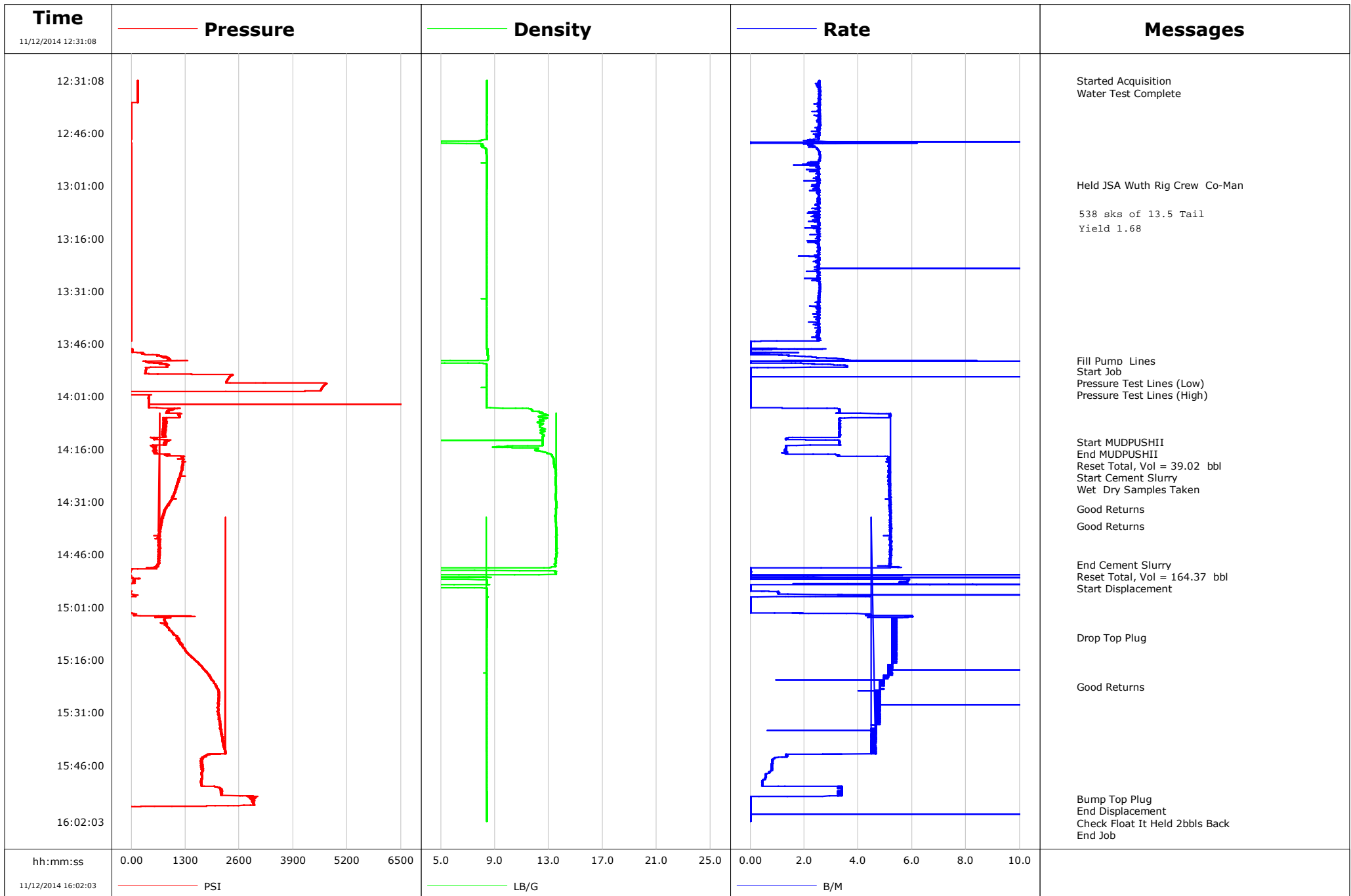


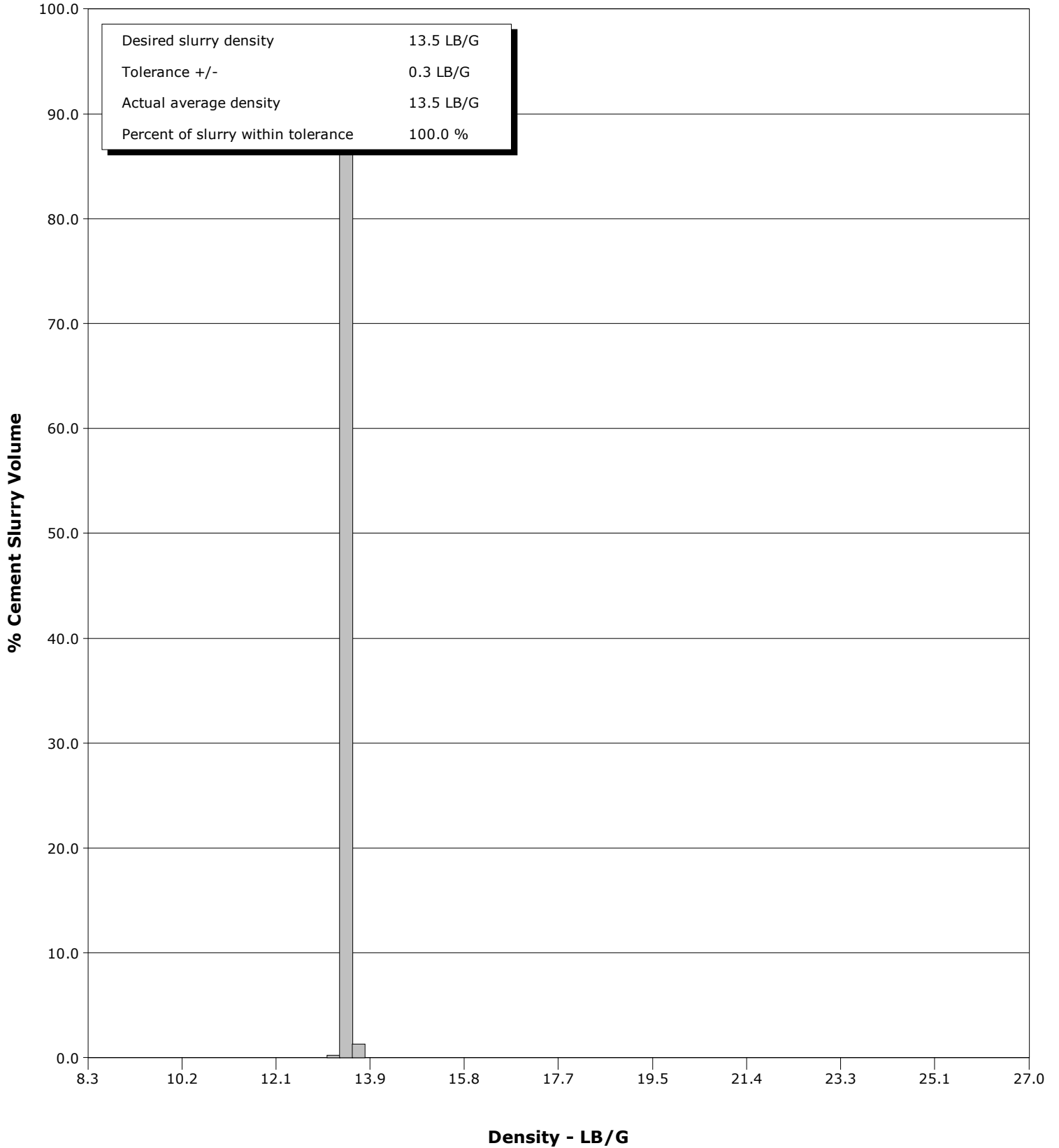
| | | | |
|-----------------|-----------------------------|-----------------|------------|
| Well | Grant Elmquist | Client | Encana |
| Field | DJ | SIR No. | D2IK-00419 |
| Engineer | Wayne Silvester/Paul Kroger | Job Type | Production |
| Country | United States | Job Date | 11-11-2014 |



Well Grant Elmquist
Field DJ
Engineer Wayne Silvester/Paul Kroger
Country United States

Client Encana
SIR No. D2IK-00419
Job Type Production
Job Date 11-11-2014

Cement Slurry - 11/12/2014 14:18:31 to 11/12/2014 14:48:58



| | | | | | Customer | | | Job Number | | | |
|-------------------------------------|------------------|--|------------------|---------------------|--------------|------------------------|-------------------------------|------------------|---------------|-----------------|----------------------|
| | | | | | Encana | | | D2IK-00419 | | | |
| Well | | | Location (legal) | | | Schlumberger Location | | | Job Start | | |
| Grant Elmquist 2F-14H | | | 2173 | | | Cheyenne | | | Nov/11/2014 | | |
| Field | | Formation Name/Type | | | Deviation | | Bit Size | | Well MD | | Well TVD |
| DJ | | Shale | | | deg | | 6.1 in | | 13941.0 ft | | 13946.0 ft |
| County | | State/Province | | | BHP | | BHST | | BHCT | | Pore Press. Gradient |
| Weld | | Colorado | | | psi | | degF | | degF | | lb/gal |
| Well Master | | API/UWI | | | | | | | | | |
| 0631480027 | | 05123376450000 | | | | | | | | | |
| Rig Name | | Drilled For | | Service Via | | Casing/Liner | | | | | |
| Ensign 135 | | Gas | | Land | | | | | | | |
| Offshore Zone | | Well Class | | Well Type | | Depth, ft | Size, in | Weight, lb/ft | Grade | Thread | |
| | | New | | Other | | 13946.0 | 4.5 | 13.5 | N/A | 8RD | |
| | | | | | | 0.0 | 0.0 | 0.0 | | | |
| Drilling Fluid Type | | Max. Density | | Plastic Viscosity | | Tubing/Drill Pipe | | | | | |
| | | lb/gal | | cP | | | | | | | |
| Service Line | | Job Type | | | | T/D | Depth, ft | Size, in | Weight, lb/ft | Grade | Thread |
| Cementing | | Production | | | | | | | | | |
| Max. Allowed Tub. Press | | Max. Allowed Ann. Press | | WH Connection | | Perforations/Open Hole | | | | | |
| psi | | psi | | | | | | | | | |
| Service Instructions | | Top, ft | Bottom, ft | shot/ft | No. of Shots | Total Interval | | | | | |
| | | ft | ft | | | ft | | | | | |
| | | ft | ft | | | Diameter | | | | | |
| | | ft | ft | | | in | | | | | |
| Treat Down | | Displacement | | Packer Type | | Packer Depth | | | | | |
| Casing | | 208.0 bbl | | | | ft | | | | | |
| Tubing Vol. | | Casing Vol. | | Annular Vol. | | Openhole Vol. | | | | | |
| bbl | | 208.0 bbl | | bbl | | bbl | | | | | |
| Casing/Tubing Secured | | 1 Hole Vol. Circulated prior to Cement | | Casing Tools | | | Squeeze Job | | | | |
| <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | | | | | |
| Lift Pressure | | Shoe Type | | Shoe Depth | | Stage Tool Type | | Stage Tool Depth | | Tail Pipe Size | |
| 2003 psi | | Guide | | 13946.0 ft | | | | ft | | in | |
| Pipe Rotated | | Pipe Reciprocated | | Collar Type | | Collar Depth | | Tail Pipe Depth | | Sqz. Total Vol. | |
| <input type="checkbox"/> | | <input type="checkbox"/> | | Float | | 13944.0 ft | | ft | | bbl | |
| No. Centralizers | | Top Plugs | | Bottom Plugs | | | | | | | |
| | | 1 | | | | | | | | | |
| Cement Head Type | | Job Scheduled For | | Arrived on Location | | Leave Location | | | | | |
| | | Nov/11/2014 | | Nov/11/2014 | | Nov/11/2014 | | | | | |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Casing Test PSI | Message | | | | |
| 11/12/2014 | 12:31:08 | 150 | 2.5 | 8.40 | 0.0 | -1 | Started Acquisition | | | | |
| 11/12/2014 | 12:31:12 | 150 | 2.6 | 8.40 | 0.2 | -1 | Water Test Complete | | | | |
| 11/12/2014 | 12:36:09 | 147 | 2.6 | 8.40 | 12.8 | -1 | | | | | |
| 11/12/2014 | 12:41:10 | -2 | 2.5 | 8.39 | 25.6 | -1 | | | | | |
| 11/12/2014 | 12:46:11 | -2 | 2.5 | 8.39 | 38.2 | -1 | | | | | |
| 11/12/2014 | 12:51:12 | -5 | 2.5 | 8.37 | 52.6 | -1 | | | | | |
| 11/12/2014 | 12:56:13 | -3 | 2.6 | 8.39 | 65.2 | -1 | | | | | |
| 11/12/2014 | 13:00:52 | -4 | 2.5 | 8.39 | 76.9 | -1 | Held JSA Wuth Rig Crew Co-Man | | | | |
| 11/12/2014 | 13:01:14 | -5 | 2.4 | 8.39 | 77.8 | -1 | | | | | |
| 11/12/2014 | 13:06:15 | -5 | 2.5 | 8.39 | 90.3 | -1 | | | | | |
| 11/12/2014 | 13:11:16 | -5 | 2.4 | 8.38 | 102.9 | -1 | | | | | |
| 11/12/2014 | 13:16:17 | -4 | 2.5 | 8.38 | 115.5 | -1 | | | | | |
| 11/12/2014 | 13:21:18 | -5 | 2.4 | 8.38 | 128.1 | -1 | | | | | |
| 11/12/2014 | 13:26:19 | -4 | 2.5 | 8.38 | 141.8 | -1 | | | | | |
| 11/12/2014 | 13:31:20 | -4 | 2.5 | 8.37 | 154.5 | -1 | | | | | |
| 11/12/2014 | 13:36:21 | -5 | 2.5 | 8.37 | 167.2 | -1 | | | | | |
| 11/12/2014 | 13:41:22 | -3 | 2.5 | 8.37 | 179.8 | -1 | | | | | |
| 11/12/2014 | 13:46:23 | -43 | 0.0 | 8.37 | 189.8 | -1 | | | | | |
| 11/12/2014 | 13:50:54 | 855 | 1.2 | 8.30 | 195.0 | -1 | Fill Pump Lines | | | | |
| 11/12/2014 | 13:51:24 | 419 | 0.0 | 0.01 | 196.3 | -1 | | | | | |
| 11/12/2014 | 13:53:53 | 342 | 0.0 | 8.38 | 200.1 | -1 | Start Job | | | | |

| Well | | | Field | | Job Start | Customer | | Job Number |
|-----------------------|------------------|-----------------------|---------------|--------------|-------------|-----------------|--------------------------------|------------|
| Grant Elmquist 2F-14H | | | DJ | | Nov/11/2014 | Encana | | D2IK-00419 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Casing Test PSI | Message | |
| 11/12/2014 | 13:56:25 | 2312 | 0.0 | 8.38 | 200.3 | -1 | | |
| 11/12/2014 | 13:57:23 | 4695 | 0.0 | 8.38 | 200.3 | -1 | Pressure Test Lines (High) | |
| 11/12/2014 | 14:01:26 | 407 | 0.0 | 8.38 | 200.3 | -1 | | |
| 11/12/2014 | 14:06:27 | 1158 | 5.2 | 12.92 | 208.0 | -1 | | |
| 11/12/2014 | 14:11:28 | 770 | 3.3 | 12.40 | 225.9 | -1 | | |
| 11/12/2014 | 14:13:59 | 806 | 3.3 | 12.51 | 232.9 | -1 | Start MUDPUSHII | |
| 11/12/2014 | 14:16:29 | 600 | 1.3 | 12.07 | 238.2 | -1 | | |
| 11/12/2014 | 14:17:18 | 572 | 1.4 | 12.99 | 239.3 | -1 | End MUDPUSHII | |
| 11/12/2014 | 14:17:21 | 553 | 1.3 | 12.98 | 239.3 | -1 | Reset Total, Vol = 39.02 bbl | |
| 11/12/2014 | 14:18:31 | 1235 | 5.2 | 13.32 | 243.5 | -1 | Start Cement Slurry | |
| 11/12/2014 | 14:21:30 | 1210 | 5.2 | 13.45 | 258.6 | -1 | | |
| 11/12/2014 | 14:24:58 | 1138 | 5.1 | 13.49 | 276.5 | -1 | Wet Dry Samples Taken | |
| 11/12/2014 | 14:26:31 | 1081 | 5.2 | 13.51 | 284.5 | -1 | | |
| 11/12/2014 | 14:31:32 | 911 | 5.2 | 13.56 | 310.2 | -1 | | |
| 11/12/2014 | 14:33:07 | 821 | 5.2 | 13.51 | 318.4 | -1 | Good Returns | |
| 11/12/2014 | 14:36:33 | 740 | 5.2 | 13.50 | 336.2 | -1 | | |
| 11/12/2014 | 14:37:53 | 696 | 5.2 | 13.54 | 343.2 | -1 | Good Returns | |
| 11/12/2014 | 14:41:34 | 640 | 5.2 | 13.56 | 362.1 | -1 | | |
| 11/12/2014 | 14:46:35 | 664 | 5.2 | 13.56 | 387.9 | -1 | | |
| 11/12/2014 | 14:48:58 | 651 | 5.2 | 13.44 | 400.2 | -1 | End Cement Slurry | |
| 11/12/2014 | 14:49:56 | 369 | 0.0 | 1.57 | 404.8 | -1 | Reset Total, Vol = 164.37 bbl | |
| 11/12/2014 | 14:51:36 | -38 | 0.0 | 13.51 | 404.8 | -1 | | |
| 11/12/2014 | 14:55:38 | -37 | 0.0 | 8.27 | 417.1 | -1 | Start Displacement | |
| 11/12/2014 | 14:56:37 | -1 | 1.0 | 8.42 | 417.2 | -1 | | |
| 11/12/2014 | 15:01:38 | -26 | 0.0 | 8.40 | 424.4 | -1 | | |
| 11/12/2014 | 15:06:39 | 855 | 5.4 | 8.39 | 444.2 | -1 | | |
| 11/12/2014 | 15:09:37 | 1117 | 5.3 | 8.39 | 460.0 | -1 | Drop Top Plug | |
| 11/12/2014 | 15:11:40 | 1221 | 5.3 | 8.38 | 470.9 | -1 | | |
| 11/12/2014 | 15:16:41 | 1576 | 5.3 | 8.38 | 497.5 | -1 | | |
| 11/12/2014 | 15:21:42 | 1924 | 5.0 | 8.38 | 528.5 | -1 | | |
| 11/12/2014 | 15:23:38 | 2045 | 4.8 | 8.38 | 537.9 | -1 | Good Returns | |
| 11/12/2014 | 15:26:43 | 2115 | 4.8 | 8.38 | 552.5 | -1 | | |
| 11/12/2014 | 15:31:44 | 2105 | 4.8 | 8.38 | 582.1 | -1 | | |
| 11/12/2014 | 15:36:45 | 2164 | 4.6 | 8.38 | 605.5 | -1 | | |
| 11/12/2014 | 15:41:46 | 2251 | 4.5 | 8.38 | 628.4 | -1 | | |
| 11/12/2014 | 15:46:47 | 1708 | 0.8 | 8.37 | 637.1 | -1 | | |
| 11/12/2014 | 15:51:48 | 1683 | 0.4 | 8.37 | 640.0 | -1 | | |
| 11/12/2014 | 15:55:40 | 2953 | 0.0 | 8.40 | 649.5 | -1 | Bump Top Plug | |
| 11/12/2014 | 15:55:41 | 2953 | 0.0 | 8.40 | 649.5 | -1 | End Displacement | |
| 11/12/2014 | 15:56:49 | 2927 | 0.0 | 8.40 | 649.5 | -1 | | |
| 11/12/2014 | 15:58:50 | -37 | 0.0 | 8.40 | 649.5 | -1 | Check Float It Held 2bbls Back | |
| 11/12/2014 | 16:00:17 | -37 | 0.0 | 8.40 | 657.0 | -1 | End Job | |

| | | | | |
|--------------------------------------|--------------------|---------------------------------|---------------------------|---------------------------------|
| Well Grant Elmquist 2F-14H | Field DJ | Job Start Nov/11/2014 | Customer Encana | Job Number D2IK-00419 |
|--------------------------------------|--------------------|---------------------------------|---------------------------|---------------------------------|

Post Job Summary

| Average Pump Rates, bbl/min | | | | | Volume of Fluid Injected, bbl | | | |
|---|---|----------------------------------|----------------------------------|---|--|-----------------------|--|--|
| Slurry 3.7 | N2 | Mud | Maximum Rate 446.1 | Total Slurry 164.8 | Mud 0.0 | Spacer 43.2 | N2 | |
| Treating Pressure Summary, psi | | | | | Breakdown Fluid | | | |
| Maximum 4695 | Final -40 | Average 1334 | Bump Plug to 2953 | Breakdown | Type | Volume bbl | Density lb/gal | |
| Avg. N2 Percent % | Designed Slurry Volume 164.0 bbl | Displacement 208.6 bbl | Mix Water Temp 50 degF | Cement Circulated to Surface? <input type="checkbox"/> | Volume bbl | To ft | Job Completed <input checked="" type="checkbox"/> | |
| Customer or Authorized Representative George Cobb | Schlumberger Supervisor Wayne Silvester/Paul Kroger | | | Washed Thru Perfs <input type="checkbox"/> | Circulation Lost <input type="checkbox"/> | - | - | |