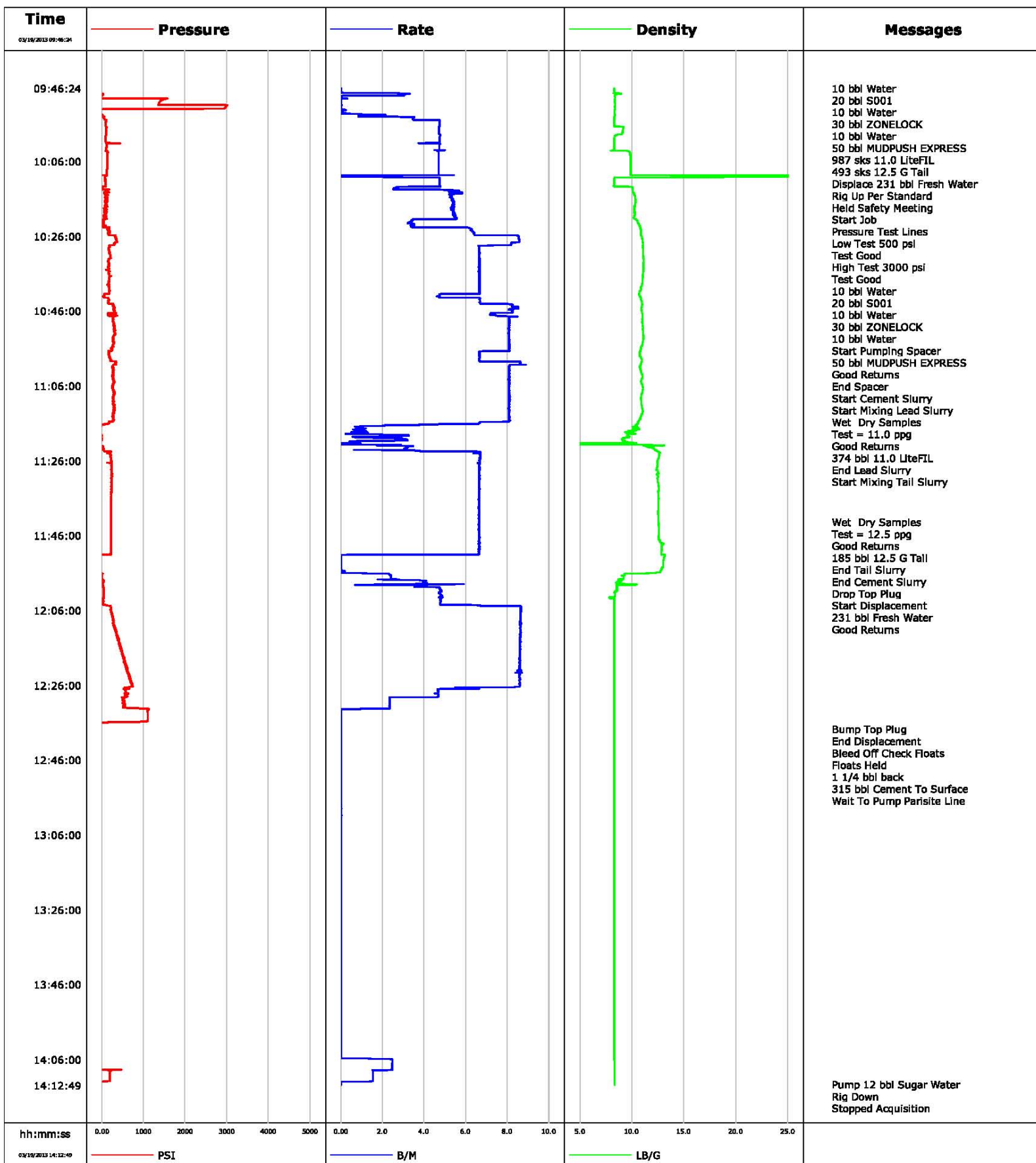


Well SG 8513B-36
Field Story Gulch
Engineer Jordan Moreland
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 03-19-2013

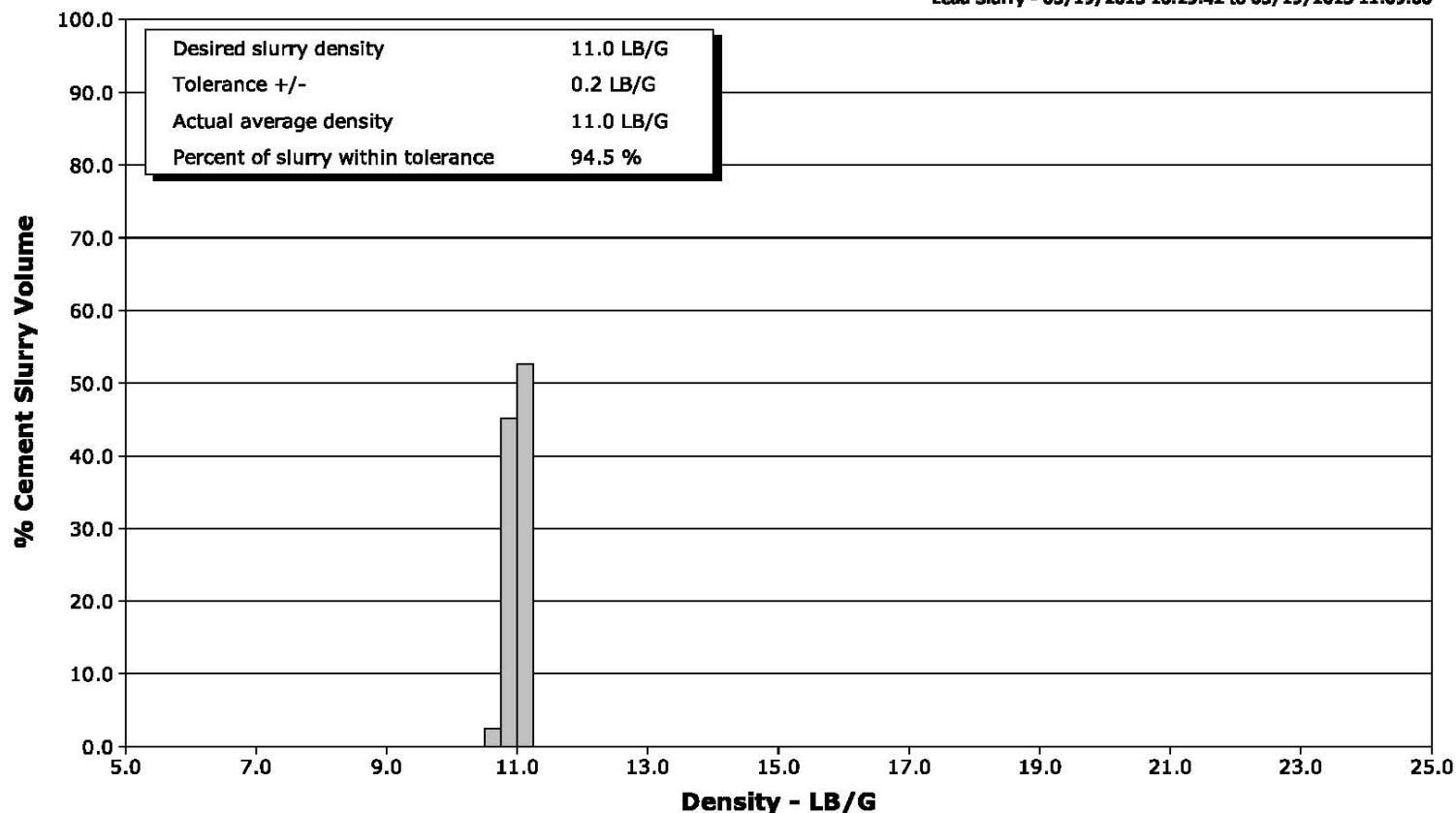


Schlumberger Cementing Qa/Qc Density Report

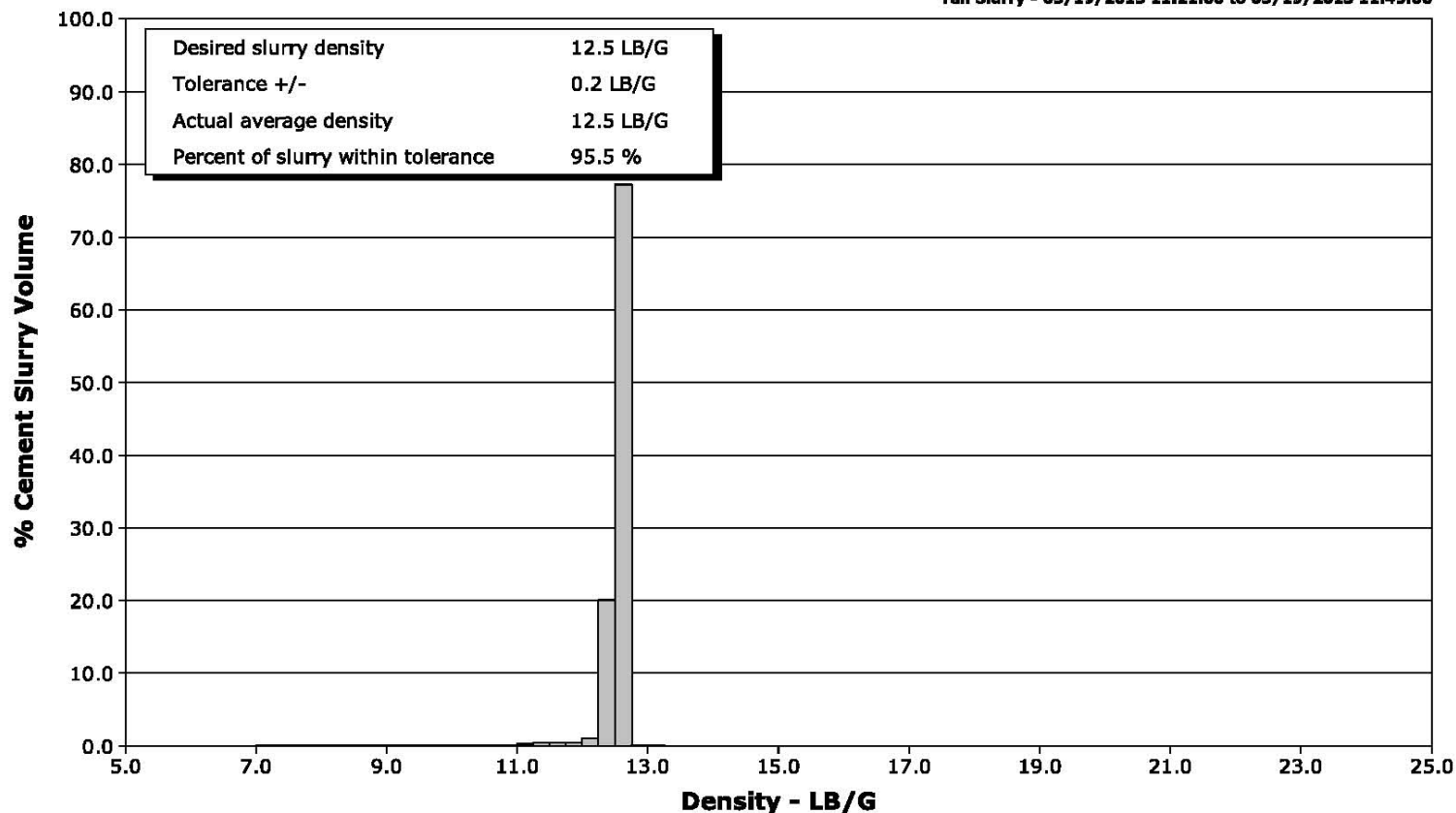
Well SG 8513B-36
Field Story Gulch
Engineer Jordan Moreland
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 03-19-2013

Lead Slurry - 03/19/2013 10:29:42 to 03/19/2013 11:09:00



Tail Slurry - 03/19/2013 11:21:00 to 03/19/2013 11:45:00



Cementing Service Report

| | | | | | | | |
|--|--|--|--|--|--|------------------------------|--|
| | | | | Customer Encana | | Job Number C610-01182 | |
| Well SG 8513B-36 | | Location (legal) D36 | | Schlumberger Location GCO | | Job Start Mar/19/2013 | |
| Field Story Gulch | | Formation Name/Type | | Deviation | | Bit Size 14.8 in | |
| County Garfield | | State/Province Colorado | | BHP | | Well MD | |
| Well Master 0631304021 | | API/UWI | | BHST 120 degF | | BHCT 96 degF | |
| Rig Name Patterson 326 | | Drilled For Gas | | Service Via Land | | Casing/Liner | |
| Offshore Zone | | Well Class New | | Well Type Development | | Depth, ft | |
| Drilling Fluid Type | | Max. Density | | Plastic Viscosity | | Size, in | |
| Service Line Cementing | | Job Type 9 5/8 Surface | | | | Weight, lb/ft | |
| Max. Allowed Tub. Press 3000 psi | | Max. Allowed Ann. Press | | WH Connection Single Cement head | | Grade | |
| Service Instructions Rate And Density Checked 10 bbl water 20 bbl S001 10 bbl Water 30 bbl ZONELOCK 10 bbl Water 50 bbl MUDPUSH EXPRESS With 10 lbs/bbl D097 987 sks 11.0 LiteFIL With 1.5 lbs/bbl D095 493 sks 12.5 G Tail Displace 231 bbl Fresh Water | | | | | | Thread | |
| Casing/Tubing Secured <input checked="" type="checkbox"/> | | 1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/> | | Casing Tools | | Squeeze Job | |
| Lift Pressure 1501 psi | | Pipe Rotated <input type="checkbox"/> | | Pipe Reciprocated <input type="checkbox"/> | | Shoe Type Guide | |
| Pipe Rotated <input type="checkbox"/> | | Pipe Reciprocated <input type="checkbox"/> | | Shoe Depth 3033.0 ft | | Squeeze Type | |
| No. Centralizers | | Top Plugs 1 | | Bottom Plugs | | Tool Type | |
| Cement Head Type | | Stage Tool Type | | Stage Tool Depth | | Tool Depth | |
| Job Scheduled For Mar/19/2013 | | Arrived on Location Mar/19/2013 | | Leave Location Mar/19/2013 | | Tail Pipe Size | |
| | | | | | | Tail Pipe Depth | |
| | | | | | | Seq. Total Vol. | |
| Date | | Time 24-hr clock | | Treating Pressure PSI | | Flow Rate B/M | |
| | | | | Density LB/G | | Volume BBL | |
| | | | | | | Message | |
| 03/19/2013 | | 09:04:09 | | | | Started Acquisition | |
| 03/19/2013 | | 09:46:24 | | | | 10 bbl Water | |
| 03/19/2013 | | 09:46:24 | | | | 20 bbl S001 | |
| 03/19/2013 | | 09:46:24 | | | | 10 bbl Water | |
| 03/19/2013 | | 09:46:24 | | | | 30 bbl ZONELOCK | |
| 03/19/2013 | | 09:46:24 | | | | 10 bbl Water | |
| 03/19/2013 | | 09:46:24 | | -56 | | 0.0 | |
| 03/19/2013 | | 09:46:25 | | | | 8.31 | |
| 03/19/2013 | | 09:46:25 | | | | 0.0 | |
| 03/19/2013 | | 09:46:25 | | | | 50 bbl MUDPUSH EXPRESS | |
| 03/19/2013 | | 09:46:25 | | | | 987 sks 11.0 LiteFIL | |
| 03/19/2013 | | 09:46:25 | | | | 493 sks 12.5 G Tail | |
| 03/19/2013 | | 09:46:25 | | | | Displace 231 bbl Fresh Water | |
| 03/19/2013 | | 09:46:25 | | | | Rig Up Per Standard | |
| 03/19/2013 | | 09:46:25 | | | | Held Safety Meeting | |
| 03/19/2013 | | 09:46:25 | | -56 | | 0.0 | |
| 03/19/2013 | | 09:46:26 | | | | 8.31 | |
| 03/19/2013 | | 09:46:26 | | | | 0.0 | |
| 03/19/2013 | | 09:46:26 | | -56 | | 0.0 | |
| 03/19/2013 | | 09:46:27 | | | | 8.31 | |
| 03/19/2013 | | 09:46:27 | | | | 0.0 | |
| 03/19/2013 | | 09:46:27 | | -56 | | 0.0 | |
| 03/19/2013 | | 09:46:28 | | | | 8.31 | |
| 03/19/2013 | | 09:46:28 | | | | 0.0 | |
| 03/19/2013 | | 09:46:28 | | | | Pressure Test Lines | |
| 03/19/2013 | | 09:46:28 | | | | Low Test 500 psi | |
| 03/19/2013 | | 09:46:28 | | | | Test Good | |
| 03/19/2013 | | 09:46:28 | | -56 | | 0.0 | |
| 03/19/2013 | | 09:46:28 | | | | 8.31 | |
| 03/19/2013 | | 09:46:28 | | | | 0.0 | |

| Well | | | Field | Job Start | | Customer | Job Number |
|-------------|------------------------|-----------------------------|---------------------|-----------------|---------------|--------------------------|------------|
| SG 8513B-36 | | | Story Gulch | Mar/19/2013 | | Encana | C610-01182 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | |
| 03/19/2013 | 09:46:29 | | | | | Test Good | |
| 03/19/2013 | 09:46:29 | -56 | 0.0 | 8.31 | 0.0 | | |
| 03/19/2013 | 09:47:29 | -56 | 0.0 | 8.31 | 0.0 | | |
| 03/19/2013 | 09:50:49 | 1359 | 0.0 | 8.38 | 2.2 | | |
| 03/19/2013 | 09:54:09 | 46 | 3.5 | 8.33 | 3.8 | | |
| 03/19/2013 | 09:57:29 | 106 | 4.7 | 9.17 | 18.6 | | |
| 03/19/2013 | 10:00:49 | 105 | 4.7 | 8.31 | 34.4 | | |
| 03/19/2013 | 10:04:09 | 129 | 4.7 | 9.86 | 50.1 | | |
| 03/19/2013 | 10:04:38 | | | | | 10 bbl Water | |
| 03/19/2013 | 10:04:38 | 141 | 4.7 | 9.87 | 52.4 | | |
| 03/19/2013 | 10:04:40 | | | | | 20 bbl S001 | |
| 03/19/2013 | 10:04:40 | | | | | 10 bbl Water | |
| 03/19/2013 | 10:04:40 | | | | | 30 bbl ZONELOCK | |
| 03/19/2013 | 10:04:40 | | | | | 10 bbl Water | |
| 03/19/2013 | 10:04:40 | 141 | 4.7 | 9.87 | 52.5 | | |
| 03/19/2013 | 10:07:29 | 132 | 4.7 | 9.88 | 65.8 | | |
| 03/19/2013 | 10:10:49 | 89 | 4.7 | 8.31 | 78.8 | | |
| 03/19/2013 | 10:13:19 | | | | | Start Pumping Spacer | |
| 03/19/2013 | 10:13:19 | 9 | 2.5 | 10.09 | 89.5 | | |
| 03/19/2013 | 10:13:20 | | | | | 50 bbl MUDPUSH EXPRESS | |
| 03/19/2013 | 10:13:20 | | | | | Good Returns | |
| 03/19/2013 | 10:13:20 | 9 | 2.5 | 10.09 | 89.6 | | |
| 03/19/2013 | 10:14:09 | 107 | 5.2 | 10.13 | 93.2 | | |
| 03/19/2013 | 10:17:29 | 78 | 5.4 | 10.30 | 111.0 | | |
| 03/19/2013 | 10:20:49 | 54 | 5.5 | 10.22 | 129.1 | | |
| 03/19/2013 | 10:24:09 | 163 | 6.3 | 10.86 | 143.4 | | |
| 03/19/2013 | 10:27:29 | 356 | 8.6 | 11.04 | 168.4 | | |
| 03/19/2013 | 10:29:40 | | | | | End Spacer | |
| 03/19/2013 | 10:29:40 | 172 | 6.7 | 11.06 | 184.5 | | |
| 03/19/2013 | 10:29:42 | | | | | Start Cement Slurry | |
| 03/19/2013 | 10:29:42 | | | | | Start Mixing Lead Slurry | |
| 03/19/2013 | 10:29:42 | 172 | 6.7 | 11.06 | 184.7 | | |
| 03/19/2013 | 10:29:43 | | | | | Wet Dry Samples | |
| 03/19/2013 | 10:29:43 | 171 | 6.7 | 11.06 | 184.8 | | |
| 03/19/2013 | 10:29:44 | | | | | Test = 11.0 ppg | |
| 03/19/2013 | 10:29:44 | | | | | Good Returns | |
| 03/19/2013 | 10:29:44 | | | | | 374 bbl 11.0 LiteFIL | |
| 03/19/2013 | 10:29:44 | 178 | 6.7 | 11.06 | 184.9 | | |
| 03/19/2013 | 10:30:49 | 189 | 6.7 | 11.09 | 192.1 | | |
| 03/19/2013 | 10:34:09 | 168 | 6.7 | 11.11 | 214.3 | | |
| 03/19/2013 | 10:37:29 | 176 | 6.7 | 11.04 | 236.5 | | |
| 03/19/2013 | 10:40:49 | 181 | 6.7 | 10.76 | 258.7 | | |
| 03/19/2013 | 10:44:09 | 265 | 8.2 | 11.00 | 279.0 | | |
| 03/19/2013 | 10:47:29 | 264 | 8.5 | 11.02 | 305.7 | | |
| 03/19/2013 | 10:50:49 | 303 | 8.1 | 11.05 | 332.6 | | |
| 03/19/2013 | 10:54:09 | 286 | 8.1 | 11.06 | 359.5 | | |
| 03/19/2013 | 10:57:29 | 168 | 6.7 | 10.75 | 385.4 | | |
| 03/19/2013 | 11:00:49 | 246 | 8.1 | 10.81 | 410.1 | | |
| 03/19/2013 | 11:04:09 | 264 | 8.1 | 10.97 | 437.1 | | |
| 03/19/2013 | 11:07:29 | 279 | 8.1 | 11.03 | 464.0 | | |
| 03/19/2013 | 11:09:00 | | | | | End Lead Slurry | |
| 03/19/2013 | 11:09:00 | 258 | 8.1 | 10.91 | 476.3 | | |
| 03/19/2013 | 11:10:49 | 279 | 8.1 | 10.95 | 491.0 | | |
| 03/19/2013 | 11:14:09 | 249 | 8.1 | 10.90 | 517.9 | | |

| Well | | | Field | Job Start | | Customer | Job Number |
|-------------|------------------------|-----------------------------|---------------------|-----------------|---------------|----------------------------|------------|
| SG 8513B-36 | | | Story Gulch | Mar/19/2013 | | Encana | C610-01182 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | |
| 03/19/2013 | 11:20:49 | -35 | 0.5 | 9.28 | 541.7 | | |
| 03/19/2013 | 11:21:00 | | | | | Start Mixing Tail Slurry | |
| 03/19/2013 | 11:21:00 | -35 | 0.5 | 9.32 | 541.8 | | |
| 03/19/2013 | 11:24:09 | 192 | 6.7 | 12.66 | 551.5 | | |
| 03/19/2013 | 11:27:29 | 229 | 6.7 | 12.47 | 573.7 | | |
| 03/19/2013 | 11:30:49 | 237 | 6.7 | 12.48 | 595.9 | | |
| 03/19/2013 | 11:34:09 | 245 | 6.6 | 12.54 | 618.0 | | |
| 03/19/2013 | 11:37:29 | 228 | 6.6 | 12.55 | 640.2 | | |
| 03/19/2013 | 11:40:49 | 214 | 6.6 | 12.56 | 662.3 | | |
| 03/19/2013 | 11:42:25 | | | | | Wet Dry Samples | |
| 03/19/2013 | 11:42:25 | | | | | Test = 12.5 ppg | |
| 03/19/2013 | 11:42:25 | | | | | Good Returns | |
| 03/19/2013 | 11:42:25 | | | | | 185 bbl 12.5 G Tail | |
| 03/19/2013 | 11:42:25 | 214 | 6.7 | 12.55 | 673.0 | | |
| 03/19/2013 | 11:44:09 | 223 | 6.6 | 12.59 | 684.5 | | |
| 03/19/2013 | 11:45:00 | | | | | End Tail Slurry | |
| 03/19/2013 | 11:45:00 | | | | | End Cement Slurry | |
| 03/19/2013 | 11:45:00 | 224 | 6.7 | 12.60 | 690.1 | | |
| 03/19/2013 | 11:47:29 | 226 | 6.6 | 12.75 | 706.6 | | |
| 03/19/2013 | 11:49:27 | | | | | Drop Top Plug | |
| 03/19/2013 | 11:49:27 | 217 | 6.6 | 12.87 | 719.7 | | |
| 03/19/2013 | 11:49:28 | | | | | Start Displacement | |
| 03/19/2013 | 11:49:28 | 223 | 6.6 | 12.86 | 719.8 | | |
| 03/19/2013 | 11:49:29 | | | | | 231 bbl Fresh Water | |
| 03/19/2013 | 11:49:29 | | | | | Good Returns | |
| 03/19/2013 | 11:49:29 | 227 | 6.6 | 12.85 | 719.9 | | |
| 03/19/2013 | 11:50:49 | 209 | 6.6 | 12.85 | 728.7 | | |
| 03/19/2013 | 11:54:09 | -40 | 0.0 | 13.01 | 730.7 | | |
| 03/19/2013 | 11:57:29 | 3 | 2.4 | 9.20 | 734.0 | | |
| 03/19/2013 | 12:00:49 | 44 | 4.8 | 8.58 | 747.3 | | |
| 03/19/2013 | 12:04:09 | 29 | 4.8 | 8.32 | 763.2 | | |
| 03/19/2013 | 12:07:29 | 252 | 8.6 | 8.31 | 790.0 | | |
| 03/19/2013 | 12:10:49 | 333 | 8.6 | 8.31 | 818.8 | | |
| 03/19/2013 | 12:14:09 | 414 | 8.6 | 8.31 | 847.5 | | |
| 03/19/2013 | 12:17:29 | 481 | 8.6 | 8.31 | 876.2 | | |
| 03/19/2013 | 12:20:49 | 583 | 8.6 | 8.31 | 904.9 | | |
| 03/19/2013 | 12:24:09 | 665 | 8.6 | 8.31 | 933.5 | | |
| 03/19/2013 | 12:27:29 | 560 | 4.7 | 8.31 | 959.2 | | |
| 03/19/2013 | 12:30:49 | 499 | 2.3 | 8.31 | 970.9 | | |
| 03/19/2013 | 12:34:09 | 1098 | 0.0 | 8.31 | 974.5 | | |
| 03/19/2013 | 12:37:29 | -59 | 0.0 | 8.31 | 974.5 | | |
| 03/19/2013 | 12:37:42 | | | | | Bump Top Plug | |
| 03/19/2013 | 12:37:42 | -59 | 0.0 | 8.31 | 974.5 | | |
| 03/19/2013 | 12:37:43 | | | | | End Displacement | |
| 03/19/2013 | 12:37:43 | -60 | 0.0 | 8.31 | 974.5 | | |
| 03/19/2013 | 12:37:44 | | | | | Bleed Off Check Floats | |
| 03/19/2013 | 12:37:44 | -60 | 0.0 | 8.31 | 974.5 | | |
| 03/19/2013 | 12:37:45 | | | | | Floats Held | |
| 03/19/2013 | 12:37:45 | | | | | 1 1/4 bbl back | |
| 03/19/2013 | 12:37:45 | | | | | 315 bbl Cement To Surface | |
| 03/19/2013 | 12:37:45 | | | | | Wait To Pump Parisite Line | |
| 03/19/2013 | 12:37:45 | -60 | 0.0 | 8.31 | 974.5 | | |
| 03/19/2013 | 12:40:49 | -59 | 0.0 | 8.31 | 974.6 | | |
| 03/19/2013 | 12:44:09 | -59 | 0.0 | 8.32 | 974.6 | | |

| Well | | | Field | | Job Start | Customer | Job Number |
|-------------|------------------------|-----------------------------|---------------------|-----------------|---------------|-------------------------|------------|
| SG 8513B-36 | | | Story Gulch | | Mar/19/2013 | Encana | C610-01182 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | |
| 03/19/2013 | 12:50:49 | -59 | 0.0 | 8.32 | 974.7 | | |
| 03/19/2013 | 12:54:09 | -58 | 0.0 | 8.32 | 974.7 | | |
| 03/19/2013 | 12:57:29 | -58 | 0.0 | 8.32 | 974.8 | | |
| 03/19/2013 | 13:00:49 | -58 | 0.0 | 8.32 | 974.8 | | |
| 03/19/2013 | 13:04:09 | -58 | 0.0 | 8.32 | 974.9 | | |
| 03/19/2013 | 13:07:29 | -59 | 0.0 | 8.32 | 974.9 | | |
| 03/19/2013 | 13:10:49 | -58 | 0.0 | 8.32 | 975.0 | | |
| 03/19/2013 | 13:14:09 | -58 | 0.0 | 8.32 | 975.0 | | |
| 03/19/2013 | 13:17:29 | -59 | 0.0 | 8.32 | 975.0 | | |
| 03/19/2013 | 13:20:49 | -58 | 0.0 | 8.32 | 975.1 | | |
| 03/19/2013 | 13:24:09 | -58 | 0.0 | 8.32 | 975.1 | | |
| 03/19/2013 | 13:27:29 | -58 | 0.0 | 8.32 | 975.2 | | |
| 03/19/2013 | 13:30:49 | -58 | 0.0 | 8.32 | 975.2 | | |
| 03/19/2013 | 13:34:09 | -58 | 0.0 | 8.32 | 975.3 | | |
| 03/19/2013 | 13:37:29 | -58 | 0.0 | 8.32 | 975.3 | | |
| 03/19/2013 | 13:40:49 | -58 | 0.0 | 8.32 | 975.4 | | |
| 03/19/2013 | 13:44:09 | -58 | 0.0 | 8.32 | 975.4 | | |
| 03/19/2013 | 13:47:29 | -58 | 0.0 | 8.32 | 975.5 | | |
| 03/19/2013 | 13:50:49 | -57 | 0.0 | 8.32 | 975.5 | | |
| 03/19/2013 | 13:54:09 | -58 | 0.0 | 8.32 | 975.6 | | |
| 03/19/2013 | 13:57:29 | -58 | 0.0 | 8.32 | 975.6 | | |
| 03/19/2013 | 14:00:49 | -58 | 0.0 | 8.32 | 975.7 | | |
| 03/19/2013 | 14:04:09 | -61 | 0.0 | 8.32 | 975.7 | | |
| 03/19/2013 | 14:07:29 | -39 | 2.5 | 8.35 | 979.9 | | |
| 03/19/2013 | 14:10:49 | 194 | 1.5 | 8.35 | 986.3 | | |
| 03/19/2013 | 14:12:39 | | | | | Pump 12 bbl Sugar Water | |
| 03/19/2013 | 14:12:39 | -62 | 0.0 | 8.35 | 988.1 | | |
| 03/19/2013 | 14:12:41 | | | | | Rig Down | |
| 03/19/2013 | 14:12:41 | -61 | 0.0 | 8.35 | 988.1 | | |

Post Job Summary

| Average Pump Rates, | | | | Volume of Fluid Injected, | | | | | |
|--|------------------------|---------|--------------|--|---|---|---------|--|--|
| Slurry | N2 | Mud | Maximum Rate | Total Slurry | Mud | Spacer | N2 | | |
| Treating Pressure Summary, | | | | Breakdown Fluid | | | | | |
| Maximum | Final | Average | Bump Plug to | Breakdown | Type | Volume | Density | | |
| Avg. N2 Percent | Designed Slurry Volume | | Displacement | Mix Water Temp 67 degF | Cement Circulated to Surface? <input checked="" type="checkbox"/> | Volume | | | |
| Customer or Authorized Representative Norm McCreary | | | | Washed Thru Perfs <input type="checkbox"/> | | To | | | |
| | | | | Circulation Lost <input type="checkbox"/> | | Job Completed <input checked="" type="checkbox"/> | | | |
| | | | | - | | - | | | |
| Schlumberger Supervisor Jordan Moreland | | | | | | | | | |