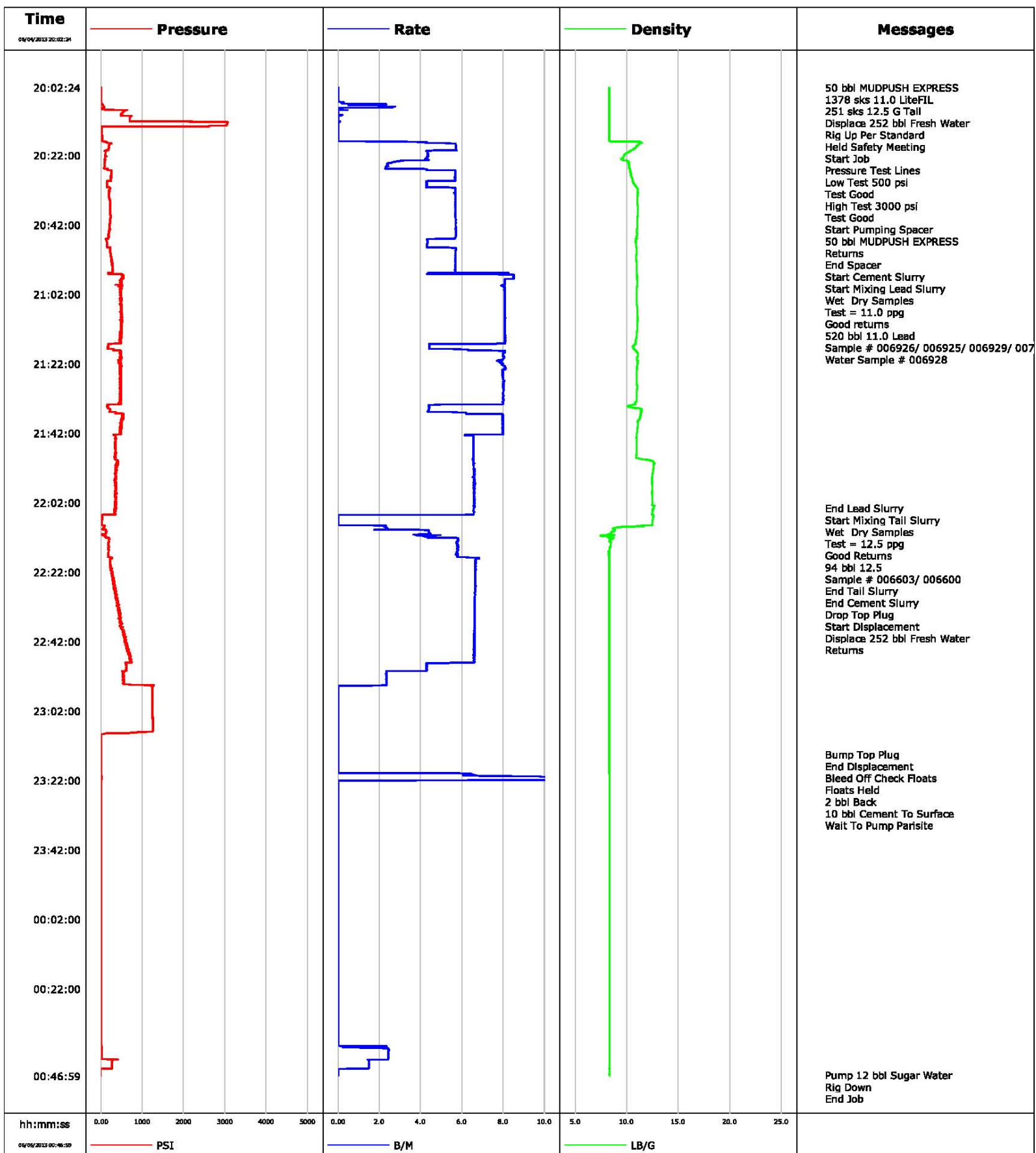


Well SGU 8507B-23
Field Story Gulch
Engineer Jordan Moreland
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 06-04-2013

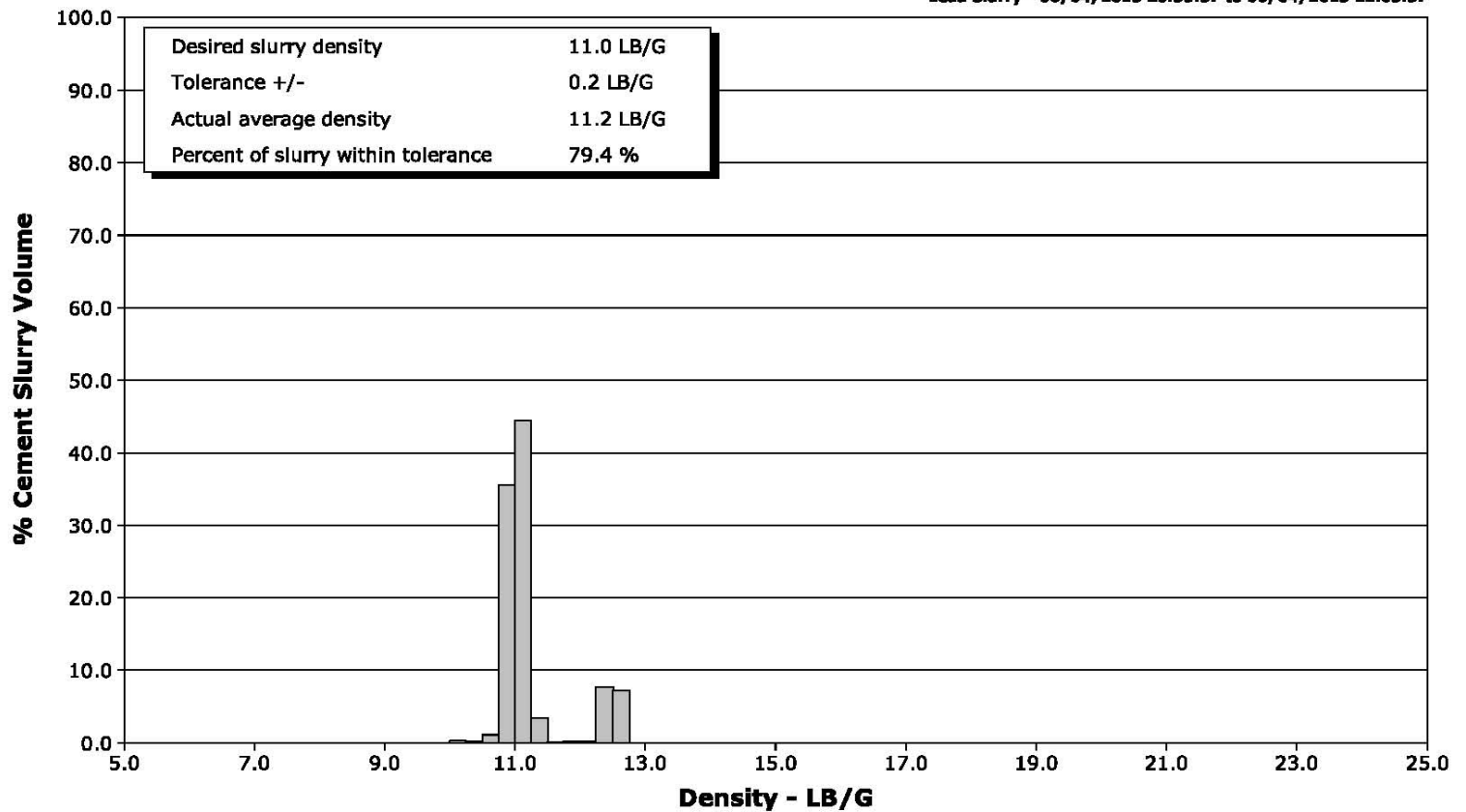


Schlumberger Cementing Qa/Qc Density Report

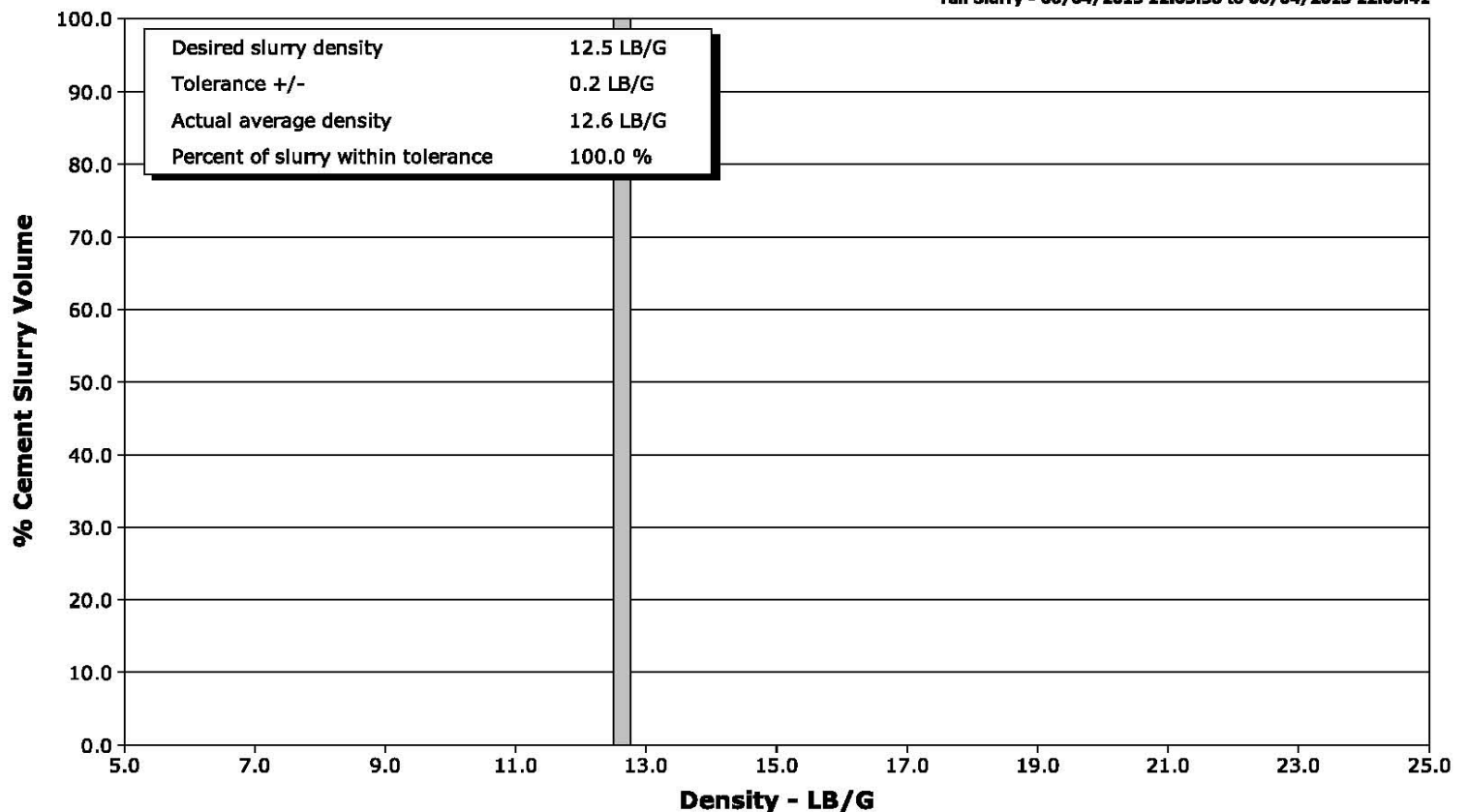
Well SGU 8507B-23
Field Story Gulch
Engineer Jordan Moreland
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 06-04-2013

Lead Slurry - 06/04/2013 20:35:37 to 06/04/2013 22:03:37



Tail Slurry - 06/04/2013 22:03:38 to 06/04/2013 22:03:41



Cementing Service Report

| | | | | | | | |
|---|------------------|--|---------------|------------------------------------|------------|---|--|
| | | | | Customer Encana | | Job Number CAIO-00144 | |
| Well SGU 8507B-23 | | Location (legal) L24 | | Schlumberger Location GCO | | Job Start Jun/04/2013 | |
| Field Story Gulch | | Formation Name/Type | | Deviation | | Well MD | |
| County Garfield | | State/Province Colorado | | BHP | | Well TVD | |
| Well Master 0631465736 | | API/UWI | | BHST | | BHCT | |
| Rig Name Patterson 330 | | Drilled For Gas | | Service Via Land | | Casing/Liner | |
| Offshore Zone | | Well Class New | | Well Type Development | | Depth, Size, Weight, Grade, Thread | |
| Drilling Fluid Type | | Max. Density 9.00 lb/gal | | Plastic Viscosity | | Tubing/Drill Pipe | |
| Service Line Cementing | | Job Type 9 5/8 Surface | | Depth, Size, Weight, Grade, Thread | | Tubing/Drill Pipe | |
| Max. Allowed Tub. Press | | Max. Allowed Ann. Press | | WH Connection | | Perforations/Open Hole | |
| | | | | | | Top, Bottom, No. of Shots, Total Interval | |
| Service Instructions Rate And Density Checked 50 bbl MUDPUSH EXPRESS 1378 sks 11.0 LiteFIL 251 sks 12.5 G Tail Displace 252 bbl Fresh Water | | | | | | Diameter | |
| | | | | | | | |
| | | | | | | | |
| | | Treat Down | | Displacement | | Packer Type | |
| | | Tubing Vol. | | Casing Vol. | | Annular Vol. | |
| Casing/Tubing Secured <input checked="" type="checkbox"/> | | 1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/> | | Casing Tools | | Squeeze Job | |
| Lift Pressure 1637 psi | | Shoe Type Guide | | Shoe Depth 3308.0 ft | | Squeeze Type | |
| Pipe Rotated <input type="checkbox"/> | | Pipe Reciprocated <input type="checkbox"/> | | Stage Tool Type | | Tool Type | |
| No. Centralizers | | Top Plugs 1 | | Bottom Plugs | | Tool Depth | |
| Cement Head Type Single | | Stage Tool Depth | | Tail Pipe Size | | | |
| Job Scheduled For Jun/04/2013 | | Arrived on Location Jun/04/2013 | | Leave Location Jun/04/2013 | | Collar Type Float | |
| | | | | | | Collar Depth 3262.0 ft | |
| | | | | | | Seq. Total Vol. | |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | |
| 06/04/2013 | 19:33:28 | | | | | Started Acquisition | |
| 06/04/2013 | 20:02:24 | | | | | 50 bbl MUDPUSH EXPRESS | |
| 06/04/2013 | 20:02:24 | 1 | 0.0 | 8.31 | 0.0 | | |
| 06/04/2013 | 20:02:25 | | | | | 1378 sks 11.0 LiteFIL | |
| 06/04/2013 | 20:02:25 | | | | | 251 sks 12.5 G Tail | |
| 06/04/2013 | 20:02:25 | | | | | Displace 252 bbl Fresh Water | |
| 06/04/2013 | 20:02:25 | | | | | Rig Up Per Standard | |
| 06/04/2013 | 20:02:25 | | | | | Held Safety Meeting | |
| 06/04/2013 | 20:02:25 | 1 | 0.0 | 8.31 | 0.0 | | |
| 06/04/2013 | 20:02:26 | | | | | Start Job | |
| 06/04/2013 | 20:02:26 | 1 | 0.0 | 8.31 | 0.0 | | |
| 06/04/2013 | 20:02:28 | | | | | Pressure Test Lines | |
| 06/04/2013 | 20:02:28 | 1 | 0.0 | 8.31 | 0.0 | | |
| 06/04/2013 | 20:02:30 | | | | | Low Test 500 psi | |
| 06/04/2013 | 20:02:30 | | | | | Test Good | |
| 06/04/2013 | 20:02:30 | | | | | High Test 3000 psi | |
| 06/04/2013 | 20:02:30 | | | | | Test Good | |
| 06/04/2013 | 20:02:30 | 1 | 0.0 | 8.31 | 0.0 | | |
| 06/04/2013 | 20:03:28 | 1 | 0.0 | 8.31 | 0.0 | | |
| 06/04/2013 | 20:06:48 | 2 | 0.2 | 8.31 | 0.1 | | |
| 06/04/2013 | 20:10:08 | 490 | 0.0 | 8.32 | 2.8 | | |

| Well | | | Field | Job Start | | Customer | Job Number |
|--------------|------------------------|-----------------------------|---------------------|-----------------|---------------|---|------------|
| SGU 8507B-23 | | | Story Gulch | Jun/04/2013 | | Encana | CAIO-00144 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | |
| 06/04/2013 | 20:16:48 | 26 | 0.0 | 8.32 | 2.9 | | |
| 06/04/2013 | 20:20:08 | 185 | 5.7 | 10.73 | 14.1 | | |
| 06/04/2013 | 20:23:28 | 77 | 3.4 | 9.86 | 29.2 | | |
| 06/04/2013 | 20:26:48 | 248 | 5.7 | 10.36 | 39.9 | | |
| 06/04/2013 | 20:30:08 | 152 | 4.3 | 10.70 | 57.9 | | |
| 06/04/2013 | 20:33:28 | 193 | 5.7 | 11.05 | 75.2 | | |
| 06/04/2013 | 20:35:31 | | | | | Start Pumping Spacer | |
| 06/04/2013 | 20:35:31 | 219 | 5.7 | 11.03 | 86.8 | | |
| 06/04/2013 | 20:35:33 | | | | | 50 bbl MUDPUSH EXPRESS | |
| 06/04/2013 | 20:35:33 | | | | | Returns | |
| 06/04/2013 | 20:35:33 | 223 | 5.7 | 11.03 | 87.0 | | |
| 06/04/2013 | 20:35:35 | | | | | End Spacer | |
| 06/04/2013 | 20:35:35 | 218 | 5.7 | 11.04 | 87.2 | | |
| 06/04/2013 | 20:35:37 | | | | | Start Cement Slurry | |
| 06/04/2013 | 20:35:37 | | | | | Start Mixing Lead Slurry | |
| 06/04/2013 | 20:35:37 | 222 | 5.7 | 11.04 | 87.4 | | |
| 06/04/2013 | 20:35:38 | | | | | Wet Dry Samples | |
| 06/04/2013 | 20:35:38 | | | | | Test = 11.0 ppg | |
| 06/04/2013 | 20:35:38 | 222 | 5.7 | 11.04 | 87.5 | | |
| 06/04/2013 | 20:35:39 | | | | | Good returns | |
| 06/04/2013 | 20:35:39 | | | | | 520 bbl 11.0 Lead | |
| 06/04/2013 | 20:35:39 | | | | | Sample # 006926/ 006925/ 006929/ 007429 | |
| 06/04/2013 | 20:35:39 | 215 | 5.7 | 11.04 | 87.6 | | |
| 06/04/2013 | 20:36:48 | 224 | 5.7 | 11.06 | 94.1 | | |
| 06/04/2013 | 20:40:08 | 226 | 5.7 | 11.05 | 113.1 | | |
| 06/04/2013 | 20:42:24 | | | | | Water Sample # 006928 | |
| 06/04/2013 | 20:42:24 | 210 | 5.7 | 11.02 | 126.0 | | |
| 06/04/2013 | 20:43:28 | 205 | 5.7 | 10.99 | 132.1 | | |
| 06/04/2013 | 20:46:48 | 140 | 4.3 | 10.86 | 150.1 | | |
| 06/04/2013 | 20:50:08 | 238 | 5.7 | 10.96 | 166.7 | | |
| 06/04/2013 | 20:53:28 | 261 | 5.7 | 10.96 | 185.6 | | |
| 06/04/2013 | 20:56:48 | 511 | 8.5 | 11.00 | 206.6 | | |
| 06/04/2013 | 21:00:08 | 493 | 8.0 | 11.00 | 233.8 | | |
| 06/04/2013 | 21:03:28 | 500 | 8.1 | 10.98 | 260.7 | | |
| 06/04/2013 | 21:06:48 | 487 | 8.1 | 11.02 | 287.6 | | |
| 06/04/2013 | 21:10:08 | 465 | 8.1 | 11.04 | 314.5 | | |
| 06/04/2013 | 21:13:28 | 477 | 8.1 | 10.99 | 341.4 | | |
| 06/04/2013 | 21:16:48 | 183 | 4.4 | 10.69 | 366.6 | | |
| 06/04/2013 | 21:20:08 | 478 | 8.0 | 11.01 | 388.9 | | |
| 06/04/2013 | 21:23:28 | 479 | 8.1 | 11.00 | 415.5 | | |
| 06/04/2013 | 21:26:48 | 460 | 8.0 | 10.99 | 442.1 | | |
| 06/04/2013 | 21:30:08 | 489 | 8.0 | 10.99 | 468.8 | | |
| 06/04/2013 | 21:33:28 | 453 | 8.0 | 10.82 | 495.5 | | |
| 06/04/2013 | 21:36:48 | 525 | 8.0 | 11.35 | 513.5 | | |
| 06/04/2013 | 21:40:08 | 479 | 8.0 | 11.06 | 540.1 | | |
| 06/04/2013 | 21:43:28 | 341 | 6.6 | 10.95 | 565.1 | | |
| 06/04/2013 | 21:46:48 | 359 | 6.6 | 10.98 | 587.0 | | |
| 06/04/2013 | 21:50:08 | 395 | 6.6 | 12.52 | 608.8 | | |
| 06/04/2013 | 21:53:28 | 367 | 6.6 | 12.53 | 630.8 | | |
| 06/04/2013 | 21:56:48 | 354 | 6.6 | 12.48 | 652.7 | | |
| 06/04/2013 | 22:00:08 | 341 | 6.6 | 12.49 | 674.7 | | |
| 06/04/2013 | 22:03:28 | 367 | 6.6 | 12.61 | 696.7 | | |
| 06/04/2013 | 22:03:37 | | | | | End Lead Slurry | |
| 06/04/2013 | 22:03:37 | 362 | 6.6 | 12.61 | 697.7 | | |

| Well | | | Field | Job Start | | Customer | Job Number |
|--------------|------------------------|-----------------------------|---------------------|-----------------|---------------|------------------------------|------------|
| SGU 8507B-23 | | | Story Gulch | Jun/04/2013 | | Encana | CAIO-00144 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | |
| 06/04/2013 | 22:03:38 | 369 | 6.6 | 12.61 | 697.8 | | |
| 06/04/2013 | 22:03:40 | | | | | Wet Dry Samples | |
| 06/04/2013 | 22:03:40 | | | | | Test = 12.5 ppg | |
| 06/04/2013 | 22:03:40 | 324 | 6.6 | 12.62 | 698.0 | | |
| 06/04/2013 | 22:03:41 | | | | | Good Returns | |
| 06/04/2013 | 22:03:41 | | | | | 94 bbl 12.5 | |
| 06/04/2013 | 22:03:41 | | | | | Sample # 006603/ 006600 | |
| 06/04/2013 | 22:03:41 | | | | | End Tail Slurry | |
| 06/04/2013 | 22:03:41 | 324 | 6.6 | 12.62 | 698.1 | | |
| 06/04/2013 | 22:03:42 | | | | | End Cement Slurry | |
| 06/04/2013 | 22:03:42 | 338 | 6.6 | 12.62 | 698.2 | | |
| 06/04/2013 | 22:03:44 | | | | | Drop Top Plug | |
| 06/04/2013 | 22:03:44 | | | | | Start Displacement | |
| 06/04/2013 | 22:03:44 | 358 | 6.6 | 12.62 | 698.4 | | |
| 06/04/2013 | 22:03:46 | | | | | Displace 252 bbl Fresh Water | |
| 06/04/2013 | 22:03:46 | | | | | Returns | |
| 06/04/2013 | 22:03:46 | 374 | 6.6 | 12.62 | 698.7 | | |
| 06/04/2013 | 22:06:48 | 24 | 0.0 | 12.55 | 710.2 | | |
| 06/04/2013 | 22:10:08 | 119 | 4.4 | 8.79 | 714.4 | | |
| 06/04/2013 | 22:13:28 | 191 | 5.8 | 8.47 | 730.8 | | |
| 06/04/2013 | 22:16:48 | 180 | 5.8 | 8.32 | 750.1 | | |
| 06/04/2013 | 22:20:08 | 235 | 6.7 | 8.32 | 771.5 | | |
| 06/04/2013 | 22:23:28 | 269 | 6.6 | 8.32 | 793.7 | | |
| 06/04/2013 | 22:26:48 | 323 | 6.6 | 8.32 | 815.8 | | |
| 06/04/2013 | 22:30:08 | 381 | 6.6 | 8.32 | 837.9 | | |
| 06/04/2013 | 22:33:28 | 457 | 6.6 | 8.32 | 860.0 | | |
| 06/04/2013 | 22:36:48 | 503 | 6.6 | 8.32 | 882.0 | | |
| 06/04/2013 | 22:40:08 | 545 | 6.6 | 8.32 | 904.0 | | |
| 06/04/2013 | 22:43:28 | 628 | 6.6 | 8.32 | 926.0 | | |
| 06/04/2013 | 22:46:48 | 702 | 6.6 | 8.32 | 948.0 | | |
| 06/04/2013 | 22:50:08 | 615 | 4.3 | 8.32 | 965.4 | | |
| 06/04/2013 | 22:53:28 | 552 | 2.4 | 8.32 | 973.9 | | |
| 06/04/2013 | 22:56:48 | 1240 | 0.0 | 8.32 | 976.9 | | |
| 06/04/2013 | 23:00:08 | 1244 | 0.0 | 8.32 | 976.9 | | |
| 06/04/2013 | 23:03:28 | 1249 | 0.0 | 8.32 | 977.0 | | |
| 06/04/2013 | 23:06:48 | 1253 | 0.0 | 8.32 | 977.0 | | |
| 06/04/2013 | 23:10:08 | 0 | 0.0 | 8.32 | 977.0 | | |
| 06/04/2013 | 23:13:28 | 0 | 0.0 | 8.32 | 977.1 | | |
| 06/04/2013 | 23:14:26 | | | | | Bump Top Plug | |
| 06/04/2013 | 23:14:26 | 1 | 0.0 | 8.32 | 977.1 | | |
| 06/04/2013 | 23:14:27 | | | | | End Displacement | |
| 06/04/2013 | 23:14:27 | 1 | 0.0 | 8.32 | 977.1 | | |
| 06/04/2013 | 23:14:28 | | | | | Bleed Off Check Floats | |
| 06/04/2013 | 23:14:28 | | | | | Floats Held | |
| 06/04/2013 | 23:14:28 | | | | | 2 bbl Back | |
| 06/04/2013 | 23:14:28 | | | | | 10 bbl Cement To Surface | |
| 06/04/2013 | 23:14:28 | 1 | 0.0 | 8.32 | 977.1 | | |
| 06/04/2013 | 23:14:29 | | | | | Wait To Pump Parisite | |
| 06/04/2013 | 23:14:29 | 1 | 0.0 | 8.32 | 977.1 | | |
| 06/04/2013 | 23:16:48 | 1 | 0.0 | 8.32 | 977.1 | | |
| 06/04/2013 | 23:20:08 | 8 | 6.3 | 8.33 | 978.8 | | |
| 06/04/2013 | 23:23:28 | 0 | 0.0 | 8.36 | 996.7 | | |
| 06/04/2013 | 23:26:48 | 1 | 0.0 | 8.36 | 996.8 | | |
| 06/04/2013 | 23:30:08 | 2 | 0.0 | 8.36 | 996.8 | | |

| Well | | | Field | Job Start | | Customer | Job Number |
|--------------|------------------------|-----------------------------|---------------------|-----------------|---------------|-------------------------|------------|
| SGU 8507B-23 | | | Story Gulch | Jun/04/2013 | | Encana | CAIO-00144 |
| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message | |
| 06/04/2013 | 23:36:48 | 1 | 0.0 | 8.36 | 996.9 | | |
| 06/04/2013 | 23:40:08 | 1 | 0.0 | 8.36 | 996.9 | | |
| 06/04/2013 | 23:43:28 | 2 | 0.0 | 8.36 | 997.0 | | |
| 06/04/2013 | 23:46:48 | 1 | 0.0 | 8.36 | 997.0 | | |
| 06/04/2013 | 23:50:08 | 1 | 0.0 | 8.36 | 997.0 | | |
| 06/04/2013 | 23:53:28 | 3 | 0.0 | 8.36 | 997.1 | | |
| 06/04/2013 | 23:56:48 | 2 | 0.0 | 8.36 | 997.1 | | |
| 06/05/2013 | 00:00:08 | 1 | 0.0 | 8.36 | 997.2 | | |
| 06/05/2013 | 00:03:28 | 2 | 0.0 | 8.36 | 997.2 | | |
| 06/05/2013 | 00:06:48 | 1 | 0.0 | 8.36 | 997.2 | | |
| 06/05/2013 | 00:10:08 | 2 | 0.0 | 8.36 | 997.3 | | |
| 06/05/2013 | 00:13:28 | 2 | 0.0 | 8.36 | 997.3 | | |
| 06/05/2013 | 00:16:48 | 2 | 0.0 | 8.36 | 997.4 | | |
| 06/05/2013 | 00:20:08 | 2 | 0.0 | 8.35 | 997.4 | | |
| 06/05/2013 | 00:23:28 | 2 | 0.0 | 8.35 | 997.4 | | |
| 06/05/2013 | 00:26:48 | 2 | 0.0 | 8.35 | 997.5 | | |
| 06/05/2013 | 00:30:08 | 1 | 0.0 | 8.36 | 997.5 | | |
| 06/05/2013 | 00:33:28 | 2 | 0.0 | 8.35 | 997.6 | | |
| 06/05/2013 | 00:36:48 | 2 | 0.0 | 8.35 | 997.6 | | |
| 06/05/2013 | 00:40:08 | 20 | 2.5 | 8.35 | 1000.8 | | |
| 06/05/2013 | 00:43:28 | 265 | 1.5 | 8.34 | 1007.9 | | |
| 06/05/2013 | 00:46:47 | | | | | Pump 12 bbl Sugar Water | |
| 06/05/2013 | 00:46:47 | -4 | 0.0 | 8.33 | 1010.2 | | |
| 06/05/2013 | 00:46:48 | | | | | Rig Down | |
| 06/05/2013 | 00:46:48 | -4 | 0.0 | 8.33 | 1010.2 | | |
| 06/05/2013 | 00:46:56 | | | | | End Job | |
| 06/05/2013 | 00:46:56 | -3 | 0.0 | 8.33 | 1010.2 | | |

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 | Cement Circulated to Surface? <input checked="" type="checkbox"/> | | Volume |
| | | | | | | Washed Thru Perfs <input type="checkbox"/> | | To |
| Customer or Authorized Representative | | | Schlumberger Supervisor | | | Circulation Lost <input type="checkbox"/> | | Job Completed <input checked="" type="checkbox"/> |
| Nate Curley | | | Jordan Moreland | | | - | | - |