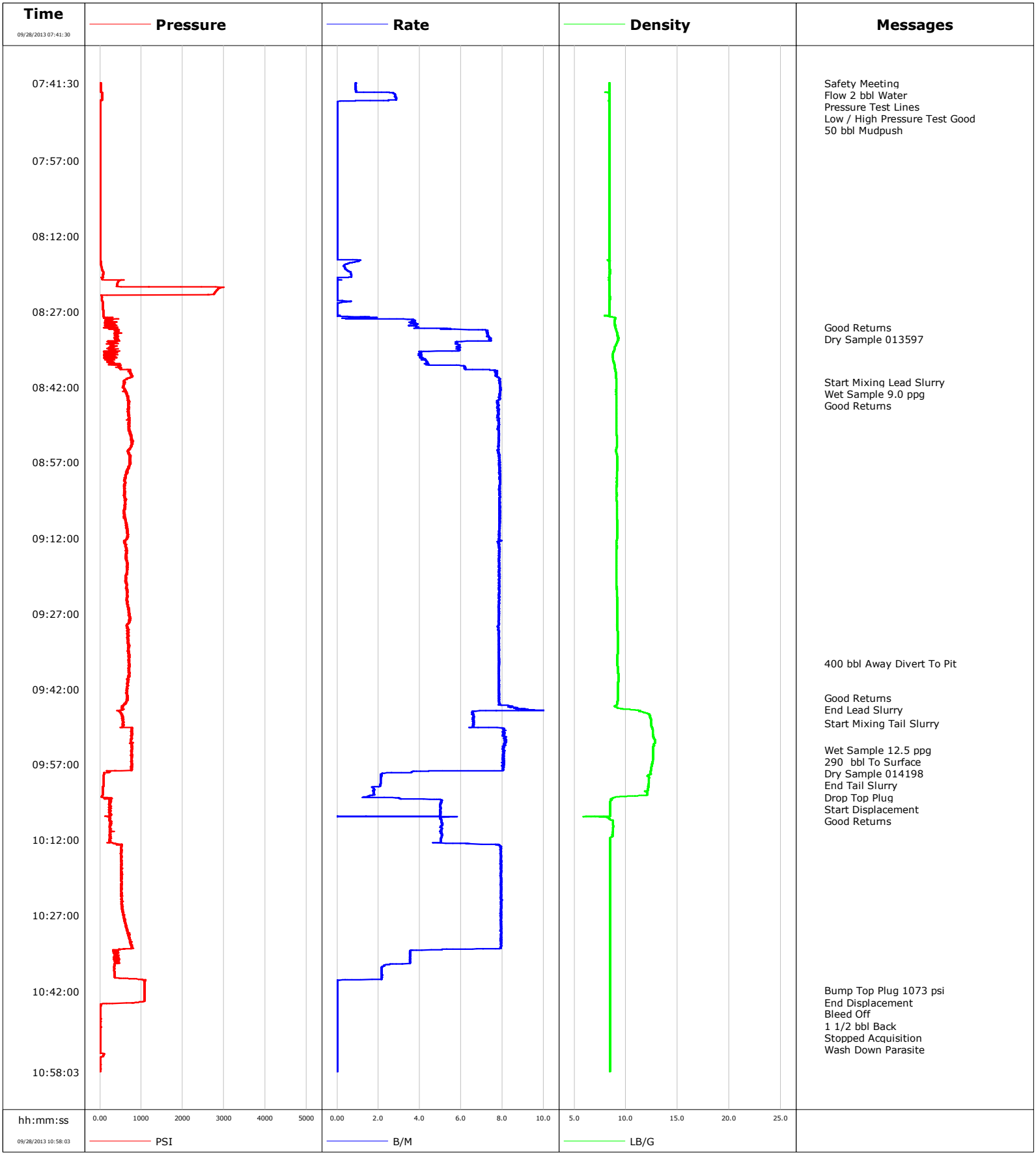
# Schlumberger Cementing Job Report

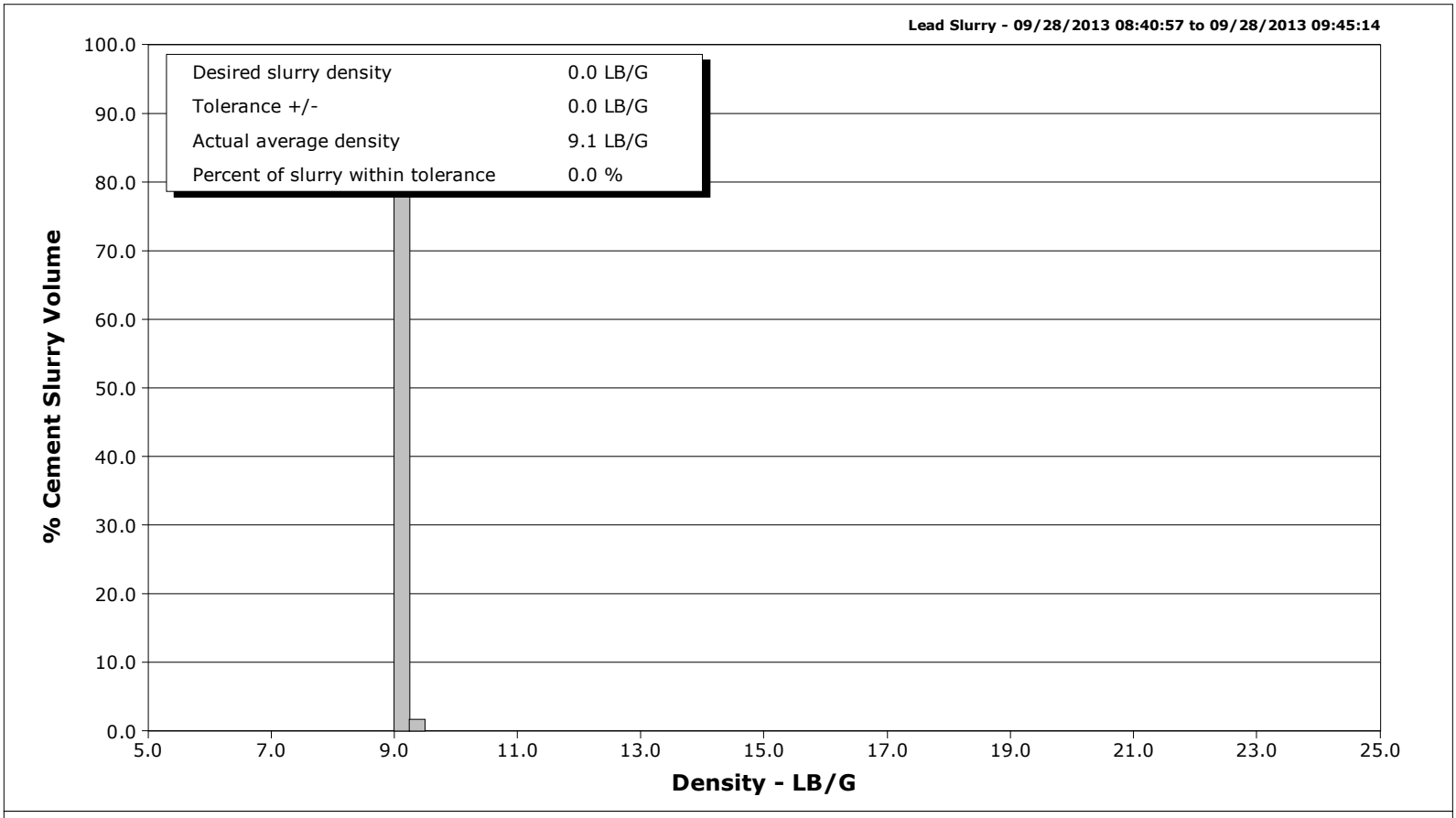


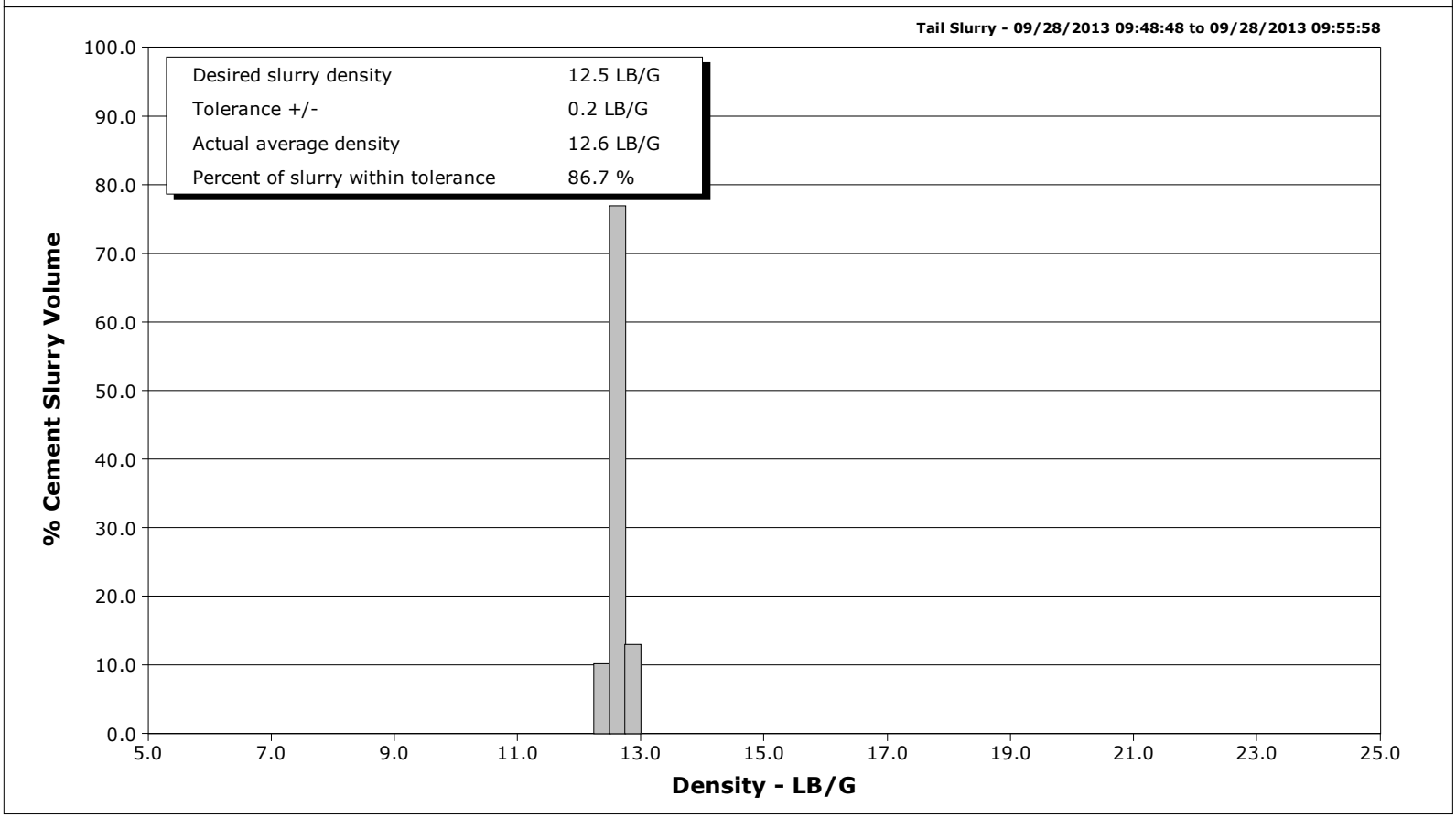
| | | | |
|---|---|---|---|
| **Well** | SGU 8503E-34 E34 496 | **Client** | EnCana |
| **Field** | Story Gulch | **SIR No.** | C567-00065 |
| **Engineer** | Travis Willardson / Mike Reedy | **Job Type** | 9 5/8 Surface |
| **Country** | United States | **Job Date** | 09-28-2013 |



# Schlumberger Cementing Qa/Qc Density Report

| | | | |
|---|---|---|---|
| **Well** | SGU 8503E-34 E34 496 | **Client** | EnCana |
| **Field** | Story Gulch | **SIR No.** | C567-00065 |
| **Engineer** | Travis Willardson / Mike Reedy | **Job Type** | 9 5/8 Surface |
| **Country** | United States | **Job Date** | 09-28-2013 |

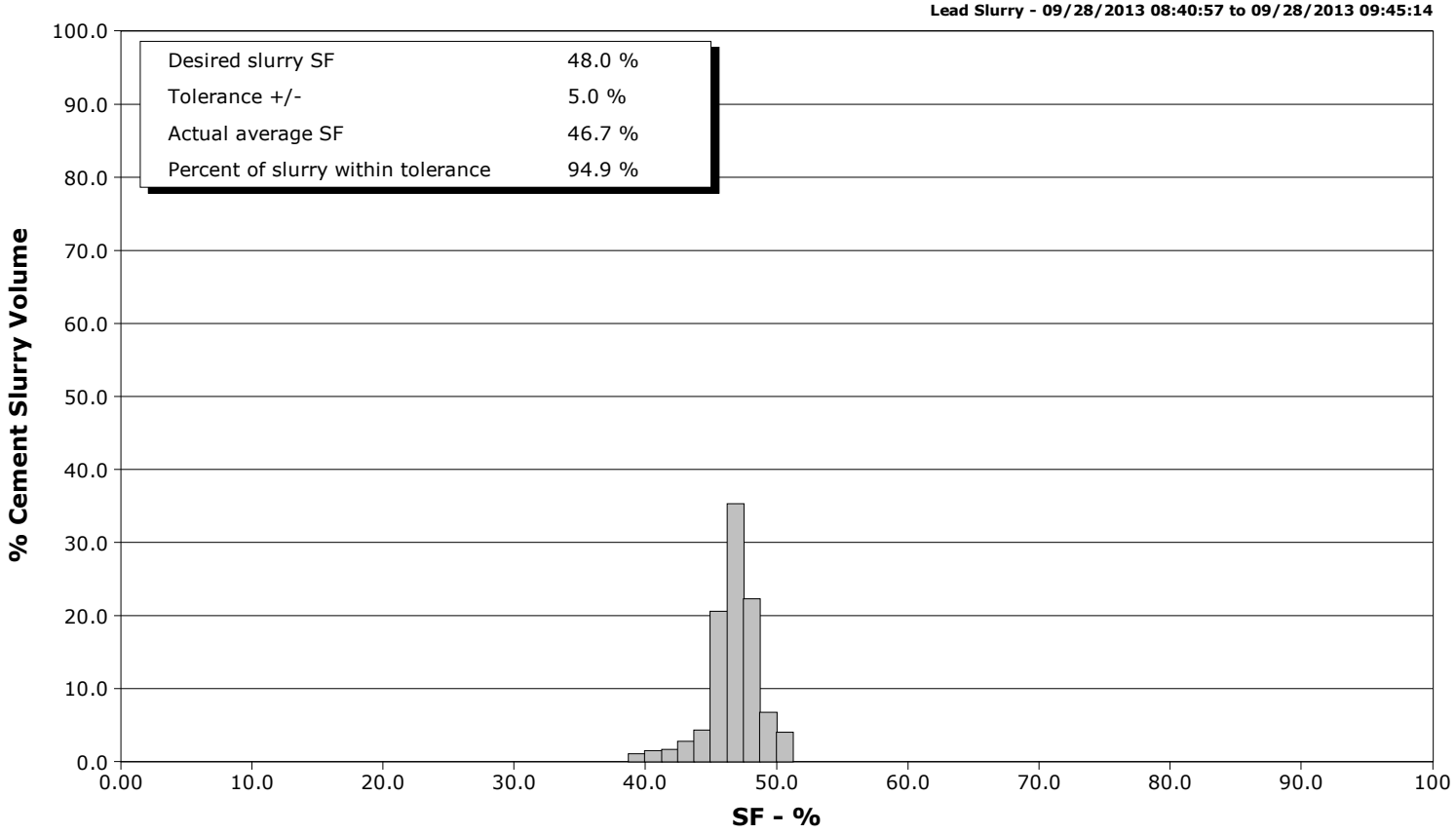


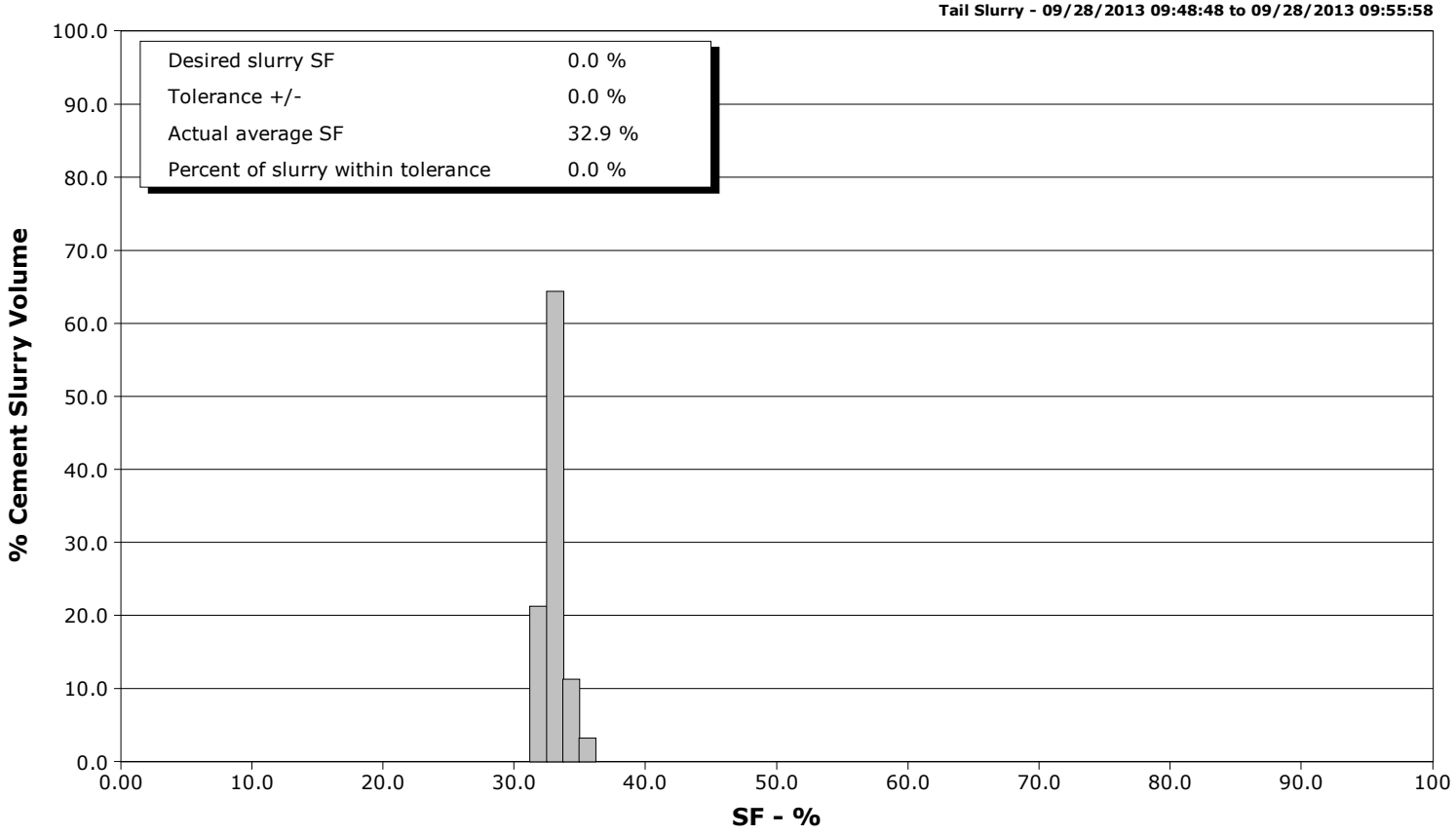
# Schlumberger Cementing Qa/Qc SFM Report

| | | | |
|---|---|---|---|
| **Well** | SGU 8503E-34 E34 496 | **Client** | EnCana |
| **Field** | Story Gulch | **SIR No.** | C567-00065 |
| **Engineer** | Travis Willardson / Mike Reedy | **Job Type** | 9 5/8 Surface |
| **Country** | United States | **Job Date** | 09-28-2013 |

**Lead Slurry - 09/28/2013 08:40:57 to 09/28/2013 09:45:14**




**Tail Slurry - 09/28/2013 09:48:48 to 09/28/2013 09:55:58**



# Cementing Service Report

| Customer | Job Number |
|---|---|
| EnCana | C567-00065 |

| Well | Location (legal) | Schlumberger Location | Job Start |
|---|---|---|---|
| SGU 8503E-34 E34 496 8503E-34 | E34 | Grand Junction | Sep/28/2013 |

| Field | Formation Name/Type | Deviation | Bit Size | Well MD | Well TVD |
|---|---|---|---|---|---|
| Story Gulch | Dirty-Sandstone | | | 2959.0 ft | 2959.0 ft |

| County | State/Province | BHP | BHST | BHCT | Pore Press. Gradient |
|---|---|---|---|---|---|
| Garfield | Colorado | | 120 degF | 92 degF | |

| Well Master | API/UWI |
|---|---|
| 0631491976 | |

| Rig Name | Drilled For | Service Via |
|---|---|---|
| Patterson 326 | Gas | Land |

| Offshore Zone | Well Class | Well Type |
|---|---|---|
| | New | Development |

| Drilling Fluid Type | Max. Density | Plastic Viscosity |
|---|---|---|
| Bentonite | | |

| Service Line | Job Type |
|---|---|
| Cementing | 9 5/8 Surface |

| Max. Allowed Tub. Press | Max. Allowed Ann. Press | WH Connection |
|---|---|---|
| | | Single Cement head |

**Service Instructions**

9.0 LiteCRETE 893.16 sks 2.92 ft3/sk
12.5 G Tail 250.93sks 2.11 ft3/sk

**Casing/Liner**

| Depth, ft | Size, in | Weight, lb/ft | Grade | Thread |
|---|---|---|---|---|
| 120.0 | 20.000 | 52.8 | N/A | N/A |
| 2959.0 | 9.630 | 36.0 | J55 | 8RD |

**Tubing/Drill Pipe**

| Depth, | Size, | Weight, | Grade | Thread |
|---|---|---|---|---|
| | | | | |
| | | | | |

**Perforations/Open Hole**

| Top, | Bottom, | | No. of Shots | Total Interval |
|---|---|---|---|---|
| | | | | |
| | | | | Diameter |
| | | | | |

| Treat Down | Displacement | Packer Type | Packer Depth |
|---|---|---|---|
| Casing | 225.0 bbl | | |

| Tubing Vol. | Casing Vol. | Annular Vol. | Openhole Vol. |
|---|---|---|---|
| | | 376.0 bbl | 622.0 bbl |

| Casing/Tubing Secured | 1 Hole Vol. Circulated prior to Cement | Casing Tools | Squeeze Job |
|---|---|---|---|
| X | X | | |

| Lift Pressure | 1464 psi | Shoe Type | Float | Squeeze Type | |
|---|---|---|---|---|---|
| Pipe Rotated | ☐ | Pipe Reciprocated | ☐ | Shoe Depth | 2959.0 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 | Arrived on Location | Leave Location | | Collar Type | Float | Tail Pipe Depth | |
| Sep/28/2013 | Sep/28/2013 | Sep/28/2013 | | Collar Depth | 2916.0 ft | Sqz. Total Vol. | |

| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message |
|---|---|---|---|---|---|---|
| 09/28/2013 | 07:37:36 | | | | | Started Acquisition |
| 09/28/2013 | 07:41:30 | 20 | 0.9 | 8.43 | 0.0 | |
| 09/28/2013 | 07:41:32 | | | | | Safety Meeting |
| 09/28/2013 | 07:41:32 | | | | | Flow 2 bbl Water |
| 09/28/2013 | 07:41:32 | 19 | 0.9 | 8.43 | 0.0 | |
| 09/28/2013 | 07:41:35 | | | | | Pressure Test Lines |
| 09/28/2013 | 07:41:35 | 20 | 0.9 | 8.43 | 0.1 | |
| 09/28/2013 | 07:41:38 | | | | | Low / High Pressure Test Good |
| 09/28/2013 | 07:41:38 | | | | | 50 bbl Mudpush |
| 09/28/2013 | 07:41:38 | 20 | 0.9 | 8.43 | 0.1 | |
| 09/28/2013 | 07:44:16 | 48 | 2.8 | 8.42 | 4.1 | |
| 09/28/2013 | 07:47:36 | 4 | 0.0 | 8.43 | 6.5 | |
| 09/28/2013 | 07:50:56 | 4 | 0.0 | 8.43 | 6.5 | |
| 09/28/2013 | 07:54:16 | 4 | 0.0 | 8.43 | 6.5 | |
| 09/28/2013 | 07:57:36 | 4 | 0.0 | 8.43 | 6.5 | |
| 09/28/2013 | 08:00:56 | 5 | 0.0 | 8.43 | 6.5 | |
| 09/28/2013 | 08:04:16 | 6 | 0.0 | 8.43 | 6.5 | |
| 09/28/2013 | 08:07:36 | 6 | 0.0 | 8.43 | 6.5 | |
| 09/28/2013 | 08:10:56 | 6 | 0.0 | 8.43 | 6.5 | |
| 09/28/2013 | 08:14:16 | 7 | 0.0 | 8.43 | 6.5 | |
| 09/28/2013 | 08:17:36 | 19 | 0.4 | 8.43 | 7.2 | |

| Well | Field | Job Start | Customer | Job Number |
|---|---|---|---|---|
| SGU 8503E-34 E34 496 8503E-34 | Story Gulch | Sep/28/2013 | EnCana | C567-00065 |

| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message |
|---|---|---|---|---|---|---|
| 09/28/2013 | 08:24:16 | 47 | 0.0 | 8.43 | 8.6 | |
| 09/28/2013 | 08:27:36 | 78 | 0.0 | 8.42 | 8.8 | |
| 09/28/2013 | 08:30:05 | | | | | Good Returns |
| 09/28/2013 | 08:30:05 | 385 | 3.9 | 8.97 | 15.3 | |
| 09/28/2013 | 08:30:29 | | | | | Dry Sample 013597 |
| 09/28/2013 | 08:30:29 | 449 | 5.5 | 9.01 | 17.1 | |
| 09/28/2013 | 08:30:56 | 453 | 7.2 | 9.09 | 20.2 | |
| 09/28/2013 | 08:34:16 | 257 | 5.9 | 8.91 | 42.6 | |
| 09/28/2013 | 08:37:36 | 289 | 4.4 | 8.89 | 57.5 | |
| 09/28/2013 | 08:40:56 | 569 | 7.9 | 9.06 | 81.7 | |
| 09/28/2013 | 08:40:57 | | | | | Start Mixing Lead Slurry |
| 09/28/2013 | 08:40:57 | 589 | 7.8 | 9.06 | 81.9 | |
| 09/28/2013 | 08:41:20 | | | | | Wet Sample 9.0 ppg |
| 09/28/2013 | 08:41:20 | 583 | 7.9 | 9.06 | 84.9 | |
| 09/28/2013 | 08:42:29 | | | | | Good Returns |
| 09/28/2013 | 08:42:29 | 588 | 7.9 | 9.05 | 94.0 | |
| 09/28/2013 | 08:44:16 | 680 | 7.9 | 9.06 | 108.0 | |
| 09/28/2013 | 08:47:36 | 695 | 7.8 | 9.07 | 134.0 | |
| 09/28/2013 | 08:50:56 | 710 | 7.8 | 9.07 | 160.0 | |
| 09/28/2013 | 08:54:16 | 716 | 7.8 | 9.09 | 186.1 | |
| 09/28/2013 | 08:57:36 | 708 | 7.9 | 9.17 | 212.2 | |
| 09/28/2013 | 09:00:56 | 601 | 7.9 | 9.09 | 238.4 | |
| 09/28/2013 | 09:04:16 | 626 | 7.9 | 9.09 | 264.6 | |
| 09/28/2013 | 09:07:36 | 587 | 7.8 | 9.12 | 290.9 | |
| 09/28/2013 | 09:10:56 | 665 | 7.8 | 9.15 | 317.0 | |
| 09/28/2013 | 09:14:16 | 642 | 7.9 | 9.09 | 343.2 | |
| 09/28/2013 | 09:17:36 | 656 | 7.8 | 9.08 | 369.3 | |
| 09/28/2013 | 09:20:56 | 626 | 7.8 | 9.09 | 395.5 | |
| 09/28/2013 | 09:24:16 | 646 | 7.8 | 9.14 | 421.6 | |
| 09/28/2013 | 09:27:36 | 717 | 7.8 | 9.19 | 447.7 | |
| 09/28/2013 | 09:30:56 | 670 | 7.8 | 9.21 | 473.7 | |
| 09/28/2013 | 09:34:16 | 687 | 7.8 | 9.21 | 499.8 | |
| 09/28/2013 | 09:36:47 | | | | | 400 bbl Away Divert To Pit |
| 09/28/2013 | 09:36:47 | 717 | 7.8 | 9.18 | 519.5 | |
| 09/28/2013 | 09:37:36 | 721 | 7.8 | 9.19 | 525.9 | |
| 09/28/2013 | 09:40:56 | 668 | 7.8 | 9.23 | 552.0 | |
| 09/28/2013 | 09:43:40 | | | | | Good Returns |
| 09/28/2013 | 09:43:40 | 677 | 7.8 | 9.22 | 573.4 | |
| 09/28/2013 | 09:44:16 | 675 | 7.8 | 9.20 | 578.1 | |
| 09/28/2013 | 09:45:14 | | | | | End Lead Slurry |
| 09/28/2013 | 09:45:14 | 568 | 8.0 | 9.10 | 585.7 | |
| 09/28/2013 | 09:47:36 | 554 | 6.6 | 12.34 | 603.7 | |
| 09/28/2013 | 09:48:48 | | | | | Start Mixing Tail Slurry |
| 09/28/2013 | 09:48:48 | 559 | 6.6 | 12.43 | 611.6 | |
| 09/28/2013 | 09:50:56 | 791 | 8.1 | 12.61 | 627.5 | |
| 09/28/2013 | 09:54:05 | | | | | Wet Sample 12.5 ppg |
| 09/28/2013 | 09:54:05 | 774 | 8.0 | 12.64 | 653.0 | |
| 09/28/2013 | 09:54:16 | 763 | 8.1 | 12.64 | 654.5 | |
| 09/28/2013 | 09:54:23 | | | | | 290 bbl To Surface |
| 09/28/2013 | 09:54:23 | 744 | 8.0 | 12.64 | 655.4 | |
| 09/28/2013 | 09:55:31 | | | | | Dry Sample 014198 |
| 09/28/2013 | 09:55:31 | 763 | 8.0 | 12.62 | 664.5 | |
| 09/28/2013 | 09:55:58 | | | | | End Tail Slurry |
| 09/28/2013 | 09:55:58 | 751 | 8.0 | 12.62 | 668.1 | |

| Well | Field | Job Start | Customer | Job Number |
|---|---|---|---|---|
| SGU 8503E-34 E34 496 8503E-34 | Story Gulch | Sep/28/2013 | EnCana | C567-00065 |

| Date | Time 24-hr clock | Treating Pressure PSI | Flow Rate B/M | Density LB/G | Volume BBL | Message |
|---|---|---|---|---|---|---|
| 09/28/2013 | 09:56:01 | 756 | 8.0 | 12.62 | 668.5 | |
| 09/28/2013 | 09:56:02 | | | | | Start Displacement |
| 09/28/2013 | 09:56:02 | 778 | 8.0 | 12.61 | 668.7 | |
| 09/28/2013 | 09:57:36 | 755 | 8.1 | 12.45 | 681.3 | |
| 09/28/2013 | 10:00:56 | 87 | 2.1 | 12.18 | 692.9 | |
| 09/28/2013 | 10:04:16 | 237 | 5.0 | 8.50 | 700.5 | |
| 09/28/2013 | 10:06:20 | | | | | Good Returns |
| 09/28/2013 | 10:06:20 | 259 | 5.0 | 8.44 | 710.9 | |
| 09/28/2013 | 10:07:36 | 247 | 5.0 | 8.35 | 716.7 | |
| 09/28/2013 | 10:10:56 | 250 | 5.1 | 8.69 | 733.5 | |
| 09/28/2013 | 10:14:16 | 522 | 7.9 | 8.44 | 754.7 | |
| 09/28/2013 | 10:17:36 | 518 | 7.9 | 8.44 | 781.1 | |
| 09/28/2013 | 10:20:56 | 514 | 7.9 | 8.44 | 807.5 | |
| 09/28/2013 | 10:24:16 | 510 | 7.9 | 8.44 | 834.0 | |
| 09/28/2013 | 10:27:36 | 597 | 7.9 | 8.44 | 860.4 | |
| 09/28/2013 | 10:30:56 | 703 | 7.9 | 8.44 | 886.8 | |
| 09/28/2013 | 10:34:16 | 432 | 3.5 | 8.44 | 910.9 | |
| 09/28/2013 | 10:37:36 | 350 | 2.2 | 8.44 | 921.5 | |
| 09/28/2013 | 10:40:56 | 1073 | 0.0 | 8.44 | 926.1 | |
| 09/28/2013 | 10:41:49 | | | | | Bump Top Plug 1073 psi |
| 09/28/2013 | 10:41:49 | 1073 | 0.0 | 8.44 | 926.1 | |
| 09/28/2013 | 10:41:50 | | | | | End Displacement |
| 09/28/2013 | 10:41:50 | 1073 | 0.0 | 8.44 | 926.1 | |
| 09/28/2013 | 10:44:16 | 912 | 0.0 | 8.45 | 926.1 | |
| 09/28/2013 | 10:45:03 | | | | | Bleed Off |
| 09/28/2013 | 10:45:03 | 11 | 0.0 | 8.45 | 926.1 | |
| 09/28/2013 | 10:45:04 | | | | | 1 1/2 bbl Back |
| 09/28/2013 | 10:45:04 | 11 | 0.0 | 8.45 | 926.1 | |
| 09/28/2013 | 10:47:36 | 19 | 0.0 | 8.45 | 926.1 | |
| 09/28/2013 | 10:50:56 | 8 | 0.0 | 8.45 | 926.1 | |
| 09/28/2013 | 10:54:16 | 9 | 0.0 | 8.44 | 926.1 | |
| 09/28/2013 | 10:57:36 | 9 | 0.0 | 8.45 | 926.1 | |
| 09/28/2013 | 10:58:07 | | | | | Stopped Acquisition |

## Post Job Summary

| Average Pump Rates, bbl/min | | | | Volume of Fluid Injected, bbl | | | |
|---|---|---|---|---|---|---|---|
| Slurry | N2 | Mud | Maximum Rate | Total Slurry | Mud | Spacer | N2 |
| 6.6 | | 0.0 | 10.8 | 560.0 | 0.0 | 0.0 | |

| Treating Pressure Summary, psi | | | | | Breakdown Fluid | | |
|---|---|---|---|---|---|---|---|
| Maximum | Final | Average | Bump Plug to | Breakdown | Type | Volume | Density |
| 2999 | 8 | 431 | 1075 | | | 847.0 bbl | |

| Avg. N2 Percent | Designed Slurry Volume | Displacement | Mix Water Temp | Cement Circulated to Surface? | Volume |
|---|---|---|---|---|---|
| | 559.0 bbl | 225.0 bbl | 45 degF | [X] | 290.0 bbl |
| | | | | Washed Thru Perfs [ ] | To |

| Customer or Authorized Representative | Schlumberger Supervisor | Circulation Lost | Job Completed |
|---|---|---|---|
| Norman McCreary | Travis Willardson / Mike Reedy | - [ ] | [X] - |