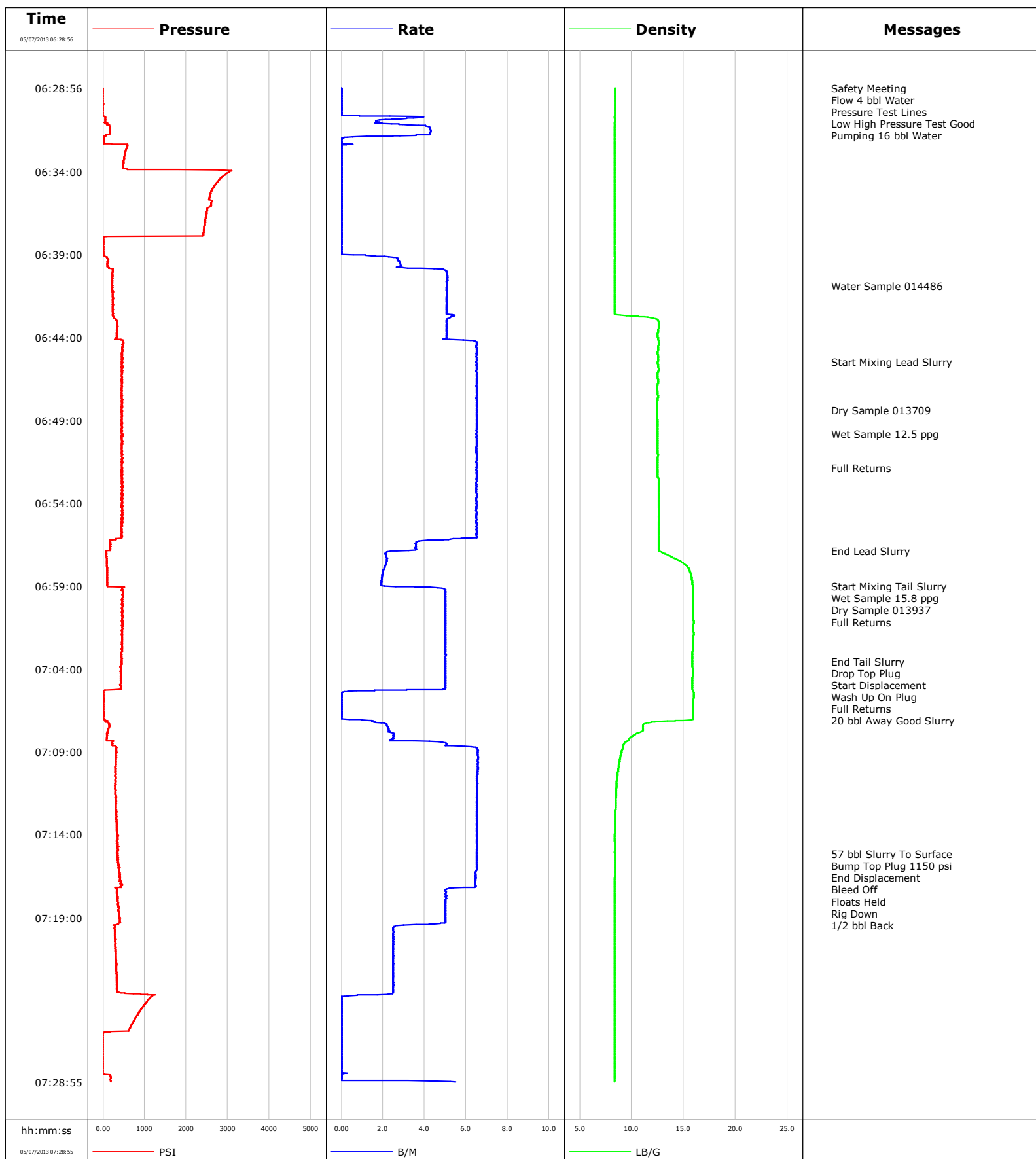


**Well** Alp Fee 24-6AA  
**Field** Mamm Creek  
**Engineer** Travis Willardson / Cole Fairbrook  
**Country** United States

**Client** EnCana  
**SIR No.** CFAO-00426  
**Job Type** 9 5/8 Surface  
**Job Date** 05-06-2013



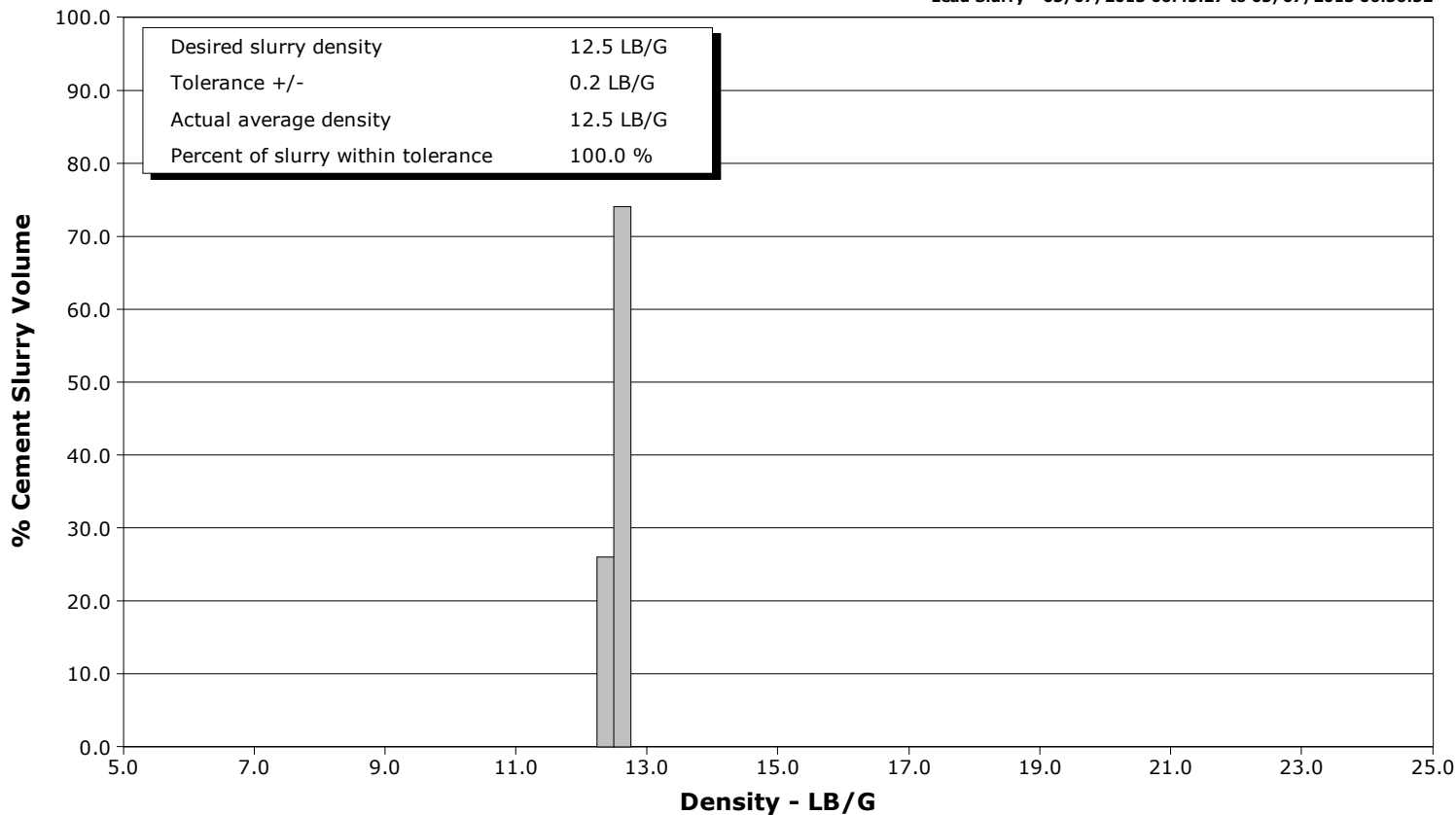
# Schlumberger

## Cementing Qa/Qc Density Report

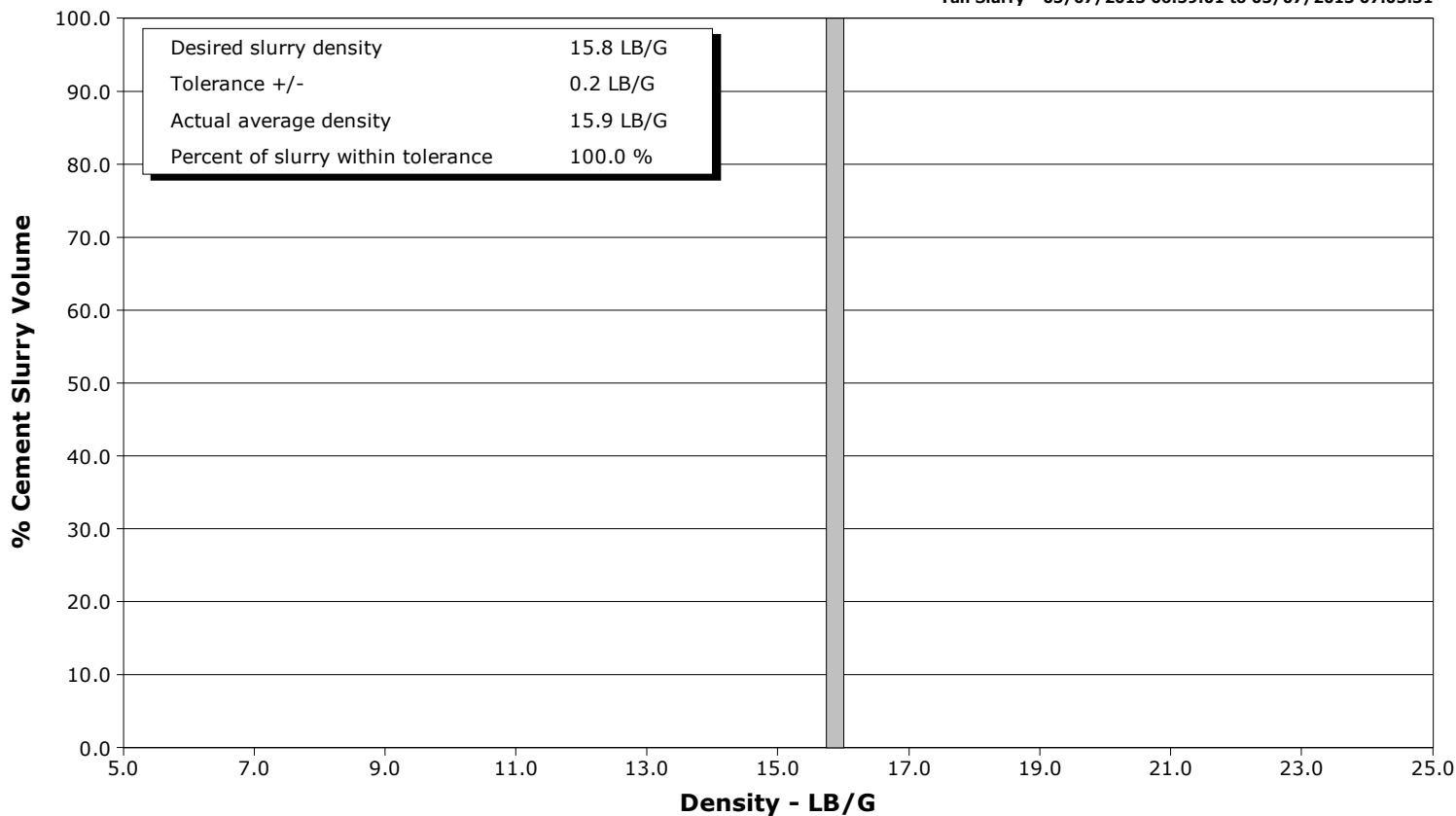
**Well** Alp Fee 24-6AA  
**Field** Mamm Creek  
**Engineer** Travis Willardson / Cole Fairbrook  
**Country** United States

**Client** EnCana  
**SIR No.** CFAO-00426  
**Job Type** 9 5/8 Surface  
**Job Date** 05-06-2013

Lead Slurry - 05/07/2013 06:45:27 to 05/07/2013 06:56:52



Tail Slurry - 05/07/2013 06:59:01 to 05/07/2013 07:03:31





# Cementing Service Report

|                                  |                                     |  |                                     |                          |   |                             |                          |          |
|----------------------------------|-------------------------------------|--|-------------------------------------|--------------------------|---|-----------------------------|--------------------------|----------|
|                                  |                                     |  |                                     | Customer<br>EnCana       |   | Job Number<br>CFAO-00426    |                          |          |
| Well<br>Alp Fee 24-6AA 24-6AA    |                                     |  | Location (legal)<br>J24NW           |                          | Schlumberger Location<br>Grand Junction |                             | Job Start<br>May/06/2013 |          |
| Field<br>Mamm Creek              |                                     | Formation Name/Type<br>Dirty-Sandstone |                                     | Deviation                | Bit Size<br>12.6 in                     | Well MD<br>1045.0 ft        |                          | Well TVD |
| County<br>Garfield               |                                     | State/Province<br>Colorado             |                                     | BHP                      | BHST<br>97 degF                         | BHCT<br>86 degF             | Pore Press. Gradient     |          |
| Well Master<br>0631429181        |                                     | API/UWI<br>05045218020000              |                                     |                          |   |                             |                          |          |
| Rig Name<br>Nabors M15           | Drilled For<br>Gas                  | Service Via<br>Land                    | Casing/Liner                        |                          |   |                             |                          |          |
|                                  |                                     |  | Depth, ft                           | Size, in                 | Weight, lb/ft                           | Grade                       | Thread                   |          |
| Offshore Zone                    | Well Class<br>New                   | Well Type<br>Development               | 40.0                                | 16.000                   | 65.0                                    | N/A                         | N/A                      |          |
|                                  |                                     |  | 1045.0                              | 9.630                    | 36.0                                    | J55                         | 8RD                      |          |
| Drilling Fluid Type<br>Bentonite |                                     | Max. Density                           | Plastic Viscosity                   | Tubing/Drill Pipe        |   |                             |                          |          |
|                                  |                                     |  |                                     | Depth,                   | Size,                                   | Weight,                     | Grade                    | Thread   |
| Service Line<br>Cementing        | Job Type<br>9 5/8 Surface           |  |                                     |                          |   |                             |                          |          |
|                                  |                                     |  |                                     |                          |   |                             |                          |          |
| Max. Allowed Tub. Press          | Max. Allowed Ann. Press             | WH Connection<br>Single Cement head    | Perforations/Open Hole              |                          |   |                             |                          |          |
|                                  |                                     |  | Top,                                | Bottom,                  |   | No. of Shots                | Total Interval           |          |
|                                  |                                     |  |                                     |                          |   |                             | Diameter                 |          |
|                                  |                                     |  |                                     |                          |   |                             |                          |          |
|                                  |                                     |  |                                     |                          |   |                             |                          |          |
|                                  |                                     |  | Treat Down<br>Casing                | Displacement<br>77.0 bbl | Packer Type                             | Packer Depth                |                          |          |
|                                  |                                     |  | Tubing Vol.                         | Casing Vol.              | Annular Vol.<br>61.0 bbl                | Openhole Vol.<br>145.0 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<br>517 psi         |                                     | Shoe Type<br>Float                     | Squeeze Type                        |                          |   |                             |                          |          |
| Pipe Rotated                     | <input type="checkbox"/>            | Pipe Reciprocated                      | <input type="checkbox"/>            | Shoe Depth<br>1045.0 ft  | Tool Type                               |                             |                          |          |
| No. Centralizers                 | Top Plugs<br>1                      | Bottom Plugs                           | Stage Tool Type                     | Tool Depth               |   |                             |                          |          |
| Cement Head Type<br>Single       | Stage Tool Depth                    | Tail Pipe Size                         |                                     |                          |   |                             |                          |          |
| Job Scheduled For<br>May/06/2013 | Arrived on Location<br>May/06/2013  | Leave Location<br>May/06/2013          | Collar Type<br>Float                | Tail Pipe Depth          |   |                             |                          |          |
|                                  |                                     |  | Collar Depth<br>1000.0 ft           | Sqz. Total Vol.          |   |                             |                          |          |
| Date                             | Time<br>24-hr<br>clock              | Treating<br>Pressure<br>PSI            | Flow<br>Rate<br>B/M                 | Density<br>LB/G          | Volume<br>BBL                           | Message                     |                          |          |
| 05/07/2013                       | 05:18:23                            |  |                                     |                          |   | Started Acquisition         |                          |          |
| 05/07/2013                       | 06:28:56                            | -0                                     | 0.0                                 | 8.40                     | 0.0                                     |                             |                          |          |
| 05/07/2013                       | 06:28:57                            |  |                                     |                          |   | Safety Meeting              |                          |          |
| 05/07/2013                       | 06:28:57                            |  |                                     |                          |   | Flow 4 bbl Water            |                          |          |
| 05/07/2013                       | 06:28:57                            | -0                                     | 0.0                                 | 8.40                     | 0.0                                     |                             |                          |          |
| 05/07/2013                       | 06:29:01                            |  |                                     |                          |   | Pressure Test Lines         |                          |          |
| 05/07/2013                       | 06:29:01                            | -0                                     | 0.0                                 | 8.40                     | 0.0                                     |                             |                          |          |
| 05/07/2013                       | 06:29:03                            |  |                                     |                          |   | Low High Pressure Test Good |                          |          |
| 05/07/2013                       | 06:29:03                            |  |                                     |                          |   | Pumping 16 bbl Water        |                          |          |
| 05/07/2013                       | 06:29:03                            | -0                                     | 0.0                                 | 8.40                     | 0.0                                     |                             |                          |          |
| 05/07/2013                       | 06:31:43                            | 159                                    | 4.3                                 | 8.38                     | 3.6                                     |                             |                          |          |
| 05/07/2013                       | 06:35:03                            | 2637                                   | 0.0                                 | 8.38                     | 4.2                                     |                             |                          |          |
| 05/07/2013                       | 06:38:23                            | 6                                      | 0.0                                 | 8.38                     | 4.2                                     |                             |                          |          |
| 05/07/2013                       | 06:40:52                            |  |                                     |                          |   | Water Sample 014486         |                          |          |
| 05/07/2013                       | 06:40:52                            | 231                                    | 5.1                                 | 8.38                     | 11.5                                    |                             |                          |          |
| 05/07/2013                       | 06:41:43                            | 234                                    | 5.1                                 | 8.38                     | 15.9                                    |                             |                          |          |
| 05/07/2013                       | 06:45:03                            | 451                                    | 6.5                                 | 12.54                    | 34.1                                    |                             |                          |          |
| 05/07/2013                       | 06:45:27                            |  |                                     |                          |   | Start Mixing Lead Slurry    |                          |          |
| 05/07/2013                       | 06:45:27                            | 452                                    | 6.5                                 | 12.53                    | 36.7                                    |                             |                          |          |
| 05/07/2013                       | 06:48:23                            | 459                                    | 6.5                                 | 12.45                    | 55.8                                    |                             |                          |          |
| 05/07/2013                       | 06:48:24                            |  |                                     |                          |   | Dry Sample 013709           |                          |          |

| Well                  |                        |                             | Field      |                     | Job Start       |  | Customer      |  | Job Number               |  |
|-----------------------|------------------------|-----------------------------|------------|---------------------|-----------------|--|---------------|--|--------------------------|--|
| Alp Fee 24-6AA 24-6AA |                        |                             | Mamm Creek |                     | May/06/2013     |  | EnCana        |  | CFAO-00426               |  |
| Date                  | Time<br>24-hr<br>clock | Treating<br>Pressure<br>PSI |            | Flow<br>Rate<br>B/M | Density<br>LB/G |  | Volume<br>BBL |  | Message                  |  |
| 05/07/2013            | 06:49:48               |                             |            |                     |                 |  |               |  | Wet Sample 12.5 ppg      |  |
| 05/07/2013            | 06:49:48               | 447                         |            | 6.5                 | 12.50           |  | 65.0          |  |                          |  |
| 05/07/2013            | 06:51:43               | 452                         |            | 6.5                 | 12.52           |  | 77.5          |  |                          |  |
| 05/07/2013            | 06:51:51               |                             |            |                     |                 |  |               |  | Full Returns             |  |
| 05/07/2013            | 06:51:51               | 463                         |            | 6.5                 | 12.51           |  | 78.4          |  |                          |  |
| 05/07/2013            | 06:55:03               | 455                         |            | 6.5                 | 12.62           |  | 99.2          |  |                          |  |
| 05/07/2013            | 06:56:52               |                             |            |                     |                 |  |               |  | End Lead Slurry          |  |
| 05/07/2013            | 06:56:52               | 83                          |            | 3.2                 | 12.62           |  | 109.0         |  |                          |  |
| 05/07/2013            | 06:58:23               | 103                         |            | 2.0                 | 15.75           |  | 112.3         |  |                          |  |
| 05/07/2013            | 06:59:01               |                             |            |                     |                 |  |               |  | Start Mixing Tail Slurry |  |
| 05/07/2013            | 06:59:01               | 115                         |            | 2.0                 | 15.86           |  | 113.5         |  |                          |  |
| 05/07/2013            | 06:59:03               |                             |            |                     |                 |  |               |  | Wet Sample 15.8 ppg      |  |
| 05/07/2013            | 06:59:03               | 196                         |            | 3.6                 | 15.86           |  | 113.6         |  |                          |  |
| 05/07/2013            | 06:59:27               |                             |            |                     |                 |  |               |  | Dry Sample 013937        |  |
| 05/07/2013            | 06:59:27               | 465                         |            | 5.0                 | 15.93           |  | 115.5         |  |                          |  |
| 05/07/2013            | 07:00:18               |                             |            |                     |                 |  |               |  | Full Returns             |  |
| 05/07/2013            | 07:00:18               | 476                         |            | 5.0                 | 15.92           |  | 119.8         |  |                          |  |
| 05/07/2013            | 07:01:43               | 447                         |            | 5.0                 | 15.95           |  | 126.9         |  |                          |  |
| 05/07/2013            | 07:03:31               |                             |            |                     |                 |  |               |  | End Tail Slurry          |  |
| 05/07/2013            | 07:03:31               | 446                         |            | 5.0                 | 15.85           |  | 135.9         |  |                          |  |
| 05/07/2013            | 07:03:33               |                             |            |                     |                 |  |               |  | Drop Top Plug            |  |
| 05/07/2013            | 07:03:33               | 444                         |            | 5.0                 | 15.85           |  | 136.0         |  |                          |  |
| 05/07/2013            | 07:03:37               |                             |            |                     |                 |  |               |  | Start Displacement       |  |
| 05/07/2013            | 07:03:37               | 454                         |            | 5.0                 | 15.85           |  | 136.4         |  |                          |  |
| 05/07/2013            | 07:03:39               |                             |            |                     |                 |  |               |  | Wash Up On Plug          |  |
| 05/07/2013            | 07:03:39               | 445                         |            | 5.0                 | 15.85           |  | 136.5         |  |                          |  |
| 05/07/2013            | 07:03:40               |                             |            |                     |                 |  |               |  | Full Returns             |  |
| 05/07/2013            | 07:03:40               | 443                         |            | 5.0                 | 15.85           |  | 136.6         |  |                          |  |
| 05/07/2013            | 07:03:41               |                             |            |                     |                 |  |               |  | 20 bbl Away Good Slurry  |  |
| 05/07/2013            | 07:03:41               | 448                         |            | 5.0                 | 15.85           |  | 136.7         |  |                          |  |
| 05/07/2013            | 07:05:03               | 425                         |            | 5.0                 | 15.85           |  | 143.6         |  |                          |  |
| 05/07/2013            | 07:08:23               | 232                         |            | 4.2                 | 9.55            |  | 147.8         |  |                          |  |
| 05/07/2013            | 07:11:43               | 301                         |            | 6.5                 | 8.49            |  | 169.2         |  |                          |  |
| 05/07/2013            | 07:15:03               | 343                         |            | 6.5                 | 8.38            |  | 190.9         |  |                          |  |
| 05/07/2013            | 07:15:10               |                             |            |                     |                 |  |               |  | 57 bbl Slurry To Surface |  |
| 05/07/2013            | 07:15:10               | 353                         |            | 6.5                 | 8.38            |  | 191.7         |  |                          |  |
| 05/07/2013            | 07:18:23               | 385                         |            | 5.0                 | 8.38            |  | 210.8         |  |                          |  |
| 05/07/2013            | 07:21:43               | 314                         |            | 2.5                 | 8.37            |  | 221.8         |  |                          |  |
| 05/07/2013            | 07:25:03               | 786                         |            | 0.0                 | 8.38            |  | 226.7         |  |                          |  |
| 05/07/2013            | 07:28:23               | -1                          |            | 0.3                 | 8.38            |  | 226.7         |  |                          |  |
| 05/07/2013            | 07:28:56               |                             |            |                     |                 |  |               |  | Bump Top Plug 1150 psi   |  |
| 05/07/2013            | 07:28:56               |                             |            |                     |                 |  |               |  | End Displacement         |  |
| 05/07/2013            | 07:28:56               |                             |            |                     |                 |  |               |  | Bleed Off                |  |
| 05/07/2013            | 07:28:56               |                             |            |                     |                 |  |               |  | Floats Held              |  |
| 05/07/2013            | 07:28:56               |                             |            |                     |                 |  |               |  | Rig Down                 |  |

|                                      |                            |                                 |                           |                                 |
|--------------------------------------|----------------------------|---------------------------------|---------------------------|---------------------------------|
| <b>Well</b><br>Alp Fee 24-6AA 24-6AA | <b>Field</b><br>Mamm Creek | <b>Job Start</b><br>May/06/2013 | <b>Customer</b><br>EnCana | <b>Job Number</b><br>CFAO-00426 |
|--------------------------------------|----------------------------|---------------------------------|---------------------------|---------------------------------|

Post Job Summary

|  |                                     |                |   |                           |  |  |         |  |
|--|-------------------------------------|----------------|---|---------------------------|--|--|---------|--|
| Average Pump Rates, bbl/min                              |                                     |                |   |                           | Volume of Fluid Injected, bbl  |  |         |  |
| Slurry<br>5.1  | N2                                  | Mud<br>0.0     | Maximum Rate<br>6.6   | Total Slurry<br>127.0     | Mud<br>0.0   | Spacer<br>0.0  | N2      |  |
| Treating Pressure Summary, psi                           |                                     |                |   |                           | Breakdown Fluid  |  |         |  |
| Maximum<br>3089  | Final<br>191                        | Average<br>510 | Bump Plug to  | Breakdown                 | Type   | Volume<br>250.0 bbl                                  | Density |  |
| Avg. N2 Percent  | Designed Slurry Volume<br>123.0 bbl |                | Displacement<br>77.0 bbl                                      | Mix Water Temp<br>55 degF | Cement Circulated to Surface?<br><input checked="" type="checkbox"/> | Volume<br>57.0 bbl                                   |         |  |
| Customer or Authorized Representative<br>Tony Ketterling |                                     |                | Schlumberger Supervisor<br>Travis Willardson / Cole Fairbrook |                           | Washed Thru Perfs<br><input type="checkbox"/>                        | To   |         |  |
|  |                                     |                |   |                           | Circulation Lost<br><input type="checkbox"/>                         | Job Completed<br><input checked="" type="checkbox"/> |         |  |
|  |                                     |                |   |                           | -  | -  |         |  |