



**Cementing Job Summary**

*The Road to Excellence Starts with Safety*

|   |                    |                        |       |                                |                |                           |                             |               |              |                     |
|---|--------------------|------------------------|-------|--------------------------------|----------------|---------------------------|-----------------------------|---------------|--------------|---------------------|
| Sold To #: 343492                                 |                    | Ship To #: 3676892     |       | Quote #: 0022104033            |                | Sales Order #: 0902794922 |                             |               |              |                     |
| Customer: BILL BARRETT CORPORATION E-BILL         |                    |                        |       | Customer Rep: Robert Schultz   |                |                           |                             |               |              |                     |
| Well Name: ANSCHUTZ STATE                         |                    | Well #: 5-62-22-1724B2 |       | API/UWI #: 05-123-41755-00     |                |                           |                             |               |              |                     |
| Field: WATTENBERG                                 | City (SAP): KERSEY | County/Parish: WELD    |       | State: COLORADO                |                |                           |                             |               |              |                     |
| Legal Description: SW NW-22-5N-62W-2015FNL-350FWL |                    |                        |       |                                |                |                           |                             |               |              |                     |
| Contractor: CADE DRLG                             |                    |                        |       | Rig/Platform Name/Num: CADE 24 |                |                           |                             |               |              |                     |
| Job BOM: 7521                                     |                    |                        |       |                                |                |                           |                             |               |              |                     |
| Well Type: DIRECTIONAL OIL                        |                    |                        |       |                                |                |                           |                             |               |              |                     |
| Sales Person: HALAMERICA\HX40837                  |                    |                        |       | Srcv Supervisor: Kendall Broom |                |                           |                             |               |              |                     |
| Job   |                    |                        |       |                                |                |                           |                             |               |              |                     |
| Formation Name                                    |                    |                        |       |                                |                |                           |                             |               |              |                     |
| Formation Depth (MD)                              |                    | Top                    |       | Bottom                         |                |                           |                             |               |              |                     |
| Form Type   |                    |                        |       | BHST                           |                |                           |                             |               |              |                     |
| Job depth MD                                      |                    | 832ft                  |       | Job Depth TVD                  |                |                           |                             |               |              |                     |
| Water Depth                                       |                    |                        |       | Wk Ht Above Floor              |                |                           |                             |               |              |                     |
| Perforation Depth (MD)                            |                    | From                   |       | To                             |                |                           |                             |               |              |                     |
| Well Data   |                    |                        |       |                                |                |                           |                             |               |              |                     |
| Description                                       | New / Used         | Size in                | ID in | Weight lbm/ft                  | Thread         | Grade                     | Top MD ft                   | Bottom MD ft  | Top TVD ft   | Bottom TVD ft       |
| Casing  |                    | 9.625                  | 8.921 | 36                             |                | J-55                      | 0                           | 832           |              |                     |
| Open Hole Section                                 |                    |                        | 13.5  |                                |                |                           | 0                           | 832           |              |                     |
| Tools and Accessories                             |                    |                        |       |                                |                |                           |                             |               |              |                     |
| Type  | Size in            | Qty                    | Make  | Depth ft                       | Type           | Size in                   | Qty                         | Make          |              |                     |
| Guide Shoe  |                    |                        |       |                                | Top Plug       | 9 5/8                     | 1                           | HES           |              |                     |
| Float Shoe  |                    |                        |       | 832                            | Bottom Plug    |                           |                             |               |              |                     |
| Float Collar                                      |                    |                        |       |                                | SSR plug set   |                           |                             |               |              |                     |
| Insert Float                                      |                    |                        |       |                                | Plug Container |                           |                             |               |              |                     |
| Stage Tool  |                    |                        |       |                                | Centralizers   |                           |                             |               |              |                     |
| Miscellaneous Materials                           |                    |                        |       |                                |                |                           |                             |               |              |                     |
| Gelling Agt                                       |                    | Conc                   |       | Surfactant                     |                | Conc                      |                             | Acid Type     | Qty          | Conc                |
| Treatment Fld                                     |                    | Conc                   |       | Inhibitor                      |                | Conc                      |                             | Sand Type     | Size         | Qty                 |
| Fluid Data  |                    |                        |       |                                |                |                           |                             |               |              |                     |
| Stage/Plug #: 1                                   |                    |                        |       |                                |                |                           |                             |               |              |                     |
| Fluid #   | Stage Type         | Fluid Name             |       | Qty                            | Qty UoM        | Mixing Density lbm/gal    | Yield ft <sup>3</sup> /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 1   | Fresh Water Spacer | Fresh Water Spacer     |       | 20                             | bbl            | 8.33                      |                             |               |              |                     |
| Fluid #   | Stage Type         | Fluid Name             |       | Qty                            | Qty UoM        | Mixing Density lbm/gal    | Yield ft <sup>3</sup> /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |

**HALLIBURTON**

*Cementing Job Summary*

|                            |                   |                      |            |                |                                   |                                      |                          |                         |                                    |  |
|----------------------------|-------------------|----------------------|------------|----------------|-----------------------------------|--------------------------------------|--------------------------|-------------------------|------------------------------------|--|
| 2                          | Tail Cement       | SWIFTCEM (TM) SYSTEM | 330        | sack           | 14.2                              | 1.54                                 |                          | 6                       | 7.66                               |  |
| 7.63 Gal                   |                   | FRESH WATER          |            |                |                                   |                                      |                          |                         |                                    |  |
| <b>Fluid #</b>             | <b>Stage Type</b> | <b>Fluid Name</b>    | <b>Qty</b> | <b>Qty UoM</b> | <b>Mixing Density<br/>lbm/gal</b> | <b>Yield<br/>ft<sup>3</sup>/sack</b> | <b>Mix Fluid<br/>Gal</b> | <b>Rate<br/>bbl/min</b> | <b>Total Mix<br/>Fluid<br/>Gal</b> |  |
| 3                          | Displacement      | Displacement         | 61         | bbl            | 8.33                              |                                      |                          |                         |                                    |  |
| <b>Cement Left In Pipe</b> |                   | <b>Amount</b>        | 45 ft      |                | <b>Reason</b>                     |                                      |                          | Shoe Joint              |                                    |  |
| <b>Comment</b>             |                   |                      |            |                |                                   |                                      |                          |                         |                                    |  |

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

| Type  | Seq. No. | Activity                 | Graph Label              | Date      | Time     | Source | DH Density<br><i>(ppg)</i> | PS Pump Press<br><i>(psi)</i> | Comb Pump Rate<br><i>(bbl/min)</i> | Comments   |
|-------|----------|--------------------------|--------------------------|-----------|----------|--------|----------------------------|-------------------------------|------------------------------------|--|
| Event | 1        | Call Out                 | Call Out                 | 9/30/2015 | 21:00:00 | USER   |                            |                               |                                    | Called crew out to be on location at 0300  |
| Event | 2        | Depart Shop for Location | Depart Shop for Location | 10/1/2015 | 00:15:00 | USER   |                            |                               |                                    | Held a safety meeting before leaving for location  |
| Event | 3        | Arrive At Loc            | Arrive At Loc            | 10/1/2015 | 02:00:00 | USER   |                            |                               |                                    | Arrived on location and met with the company man. All casing had been run                          |
| Event | 4        | Rig-up Lines             | Rig-up Lines             | 10/1/2015 | 02:15:00 | USER   |                            |                               |                                    | Held a hazard hunt before spotting in trucks and rigging up  |
| Event | 5        | Safety Meeting           | Safety Meeting           | 10/1/2015 | 02:45:00 | USER   |                            |                               |                                    | Held a safety meeting with the rig crew to discuss the operation and safety                        |
| Event | 6        | Start Job                | Start Job                | 10/1/2015 | 03:12:58 | COM4   | 8.56                       | 1.00                          | 0.00                               | Filled lines with 2 bbl water  |
| Event | 7        | Test Lines               | Test Lines               | 10/1/2015 | 03:14:58 | COM4   | 8.56                       | 11.00                         | 0.00                               | Tested lines to 2530 psi   |
| Event | 8        | Pump Spacer 1            | Pump Spacer 1            | 10/1/2015 | 03:19:03 | COM4   | 8.54                       | 8.00                          | 0.00                               | Pumped 10 bbl water with red dye   |
| Event | 9        | Pump Spacer 2            | Pump Spacer 2            | 10/1/2015 | 03:23:14 | COM4   | 8.58                       | 48.00                         | 3.00                               | Pumped 10 bbl fresh water  |
| Event | 10       | Pump Cement              | Pump Cement              | 10/1/2015 | 03:31:25 | COM4   | 8.55                       | 19.00                         | 0.00                               | Pumped 90.51 bbl 14.2# SwiftCem, 1.54 yield, 7.66 gal/sks  |
| Event | 11       | Shutdown                 | Shutdown                 | 10/1/2015 | 03:53:48 | COM4   | 14.36                      | 34.00                         | 0.20                               | Washed up the cement head  |
| Event | 12       | Drop Top Plug            | Drop Top Plug            | 10/1/2015 | 03:55:35 | COM4   | 14.42                      | 6.00                          | 0.00                               | Dropped plug pre-loaded and witnessed by the company man   |
| Event | 13       | Pump Displacement        | Pump Displacement        | 10/1/2015 | 03:55:39 | COM4   | 14.46                      | 6.00                          | 0.00                               | Pumped 61 bbl water displacement. Got all the spacer back and 18 bbl <b>cement back to surface</b> |
| Event | 14       | Bump Plug                | Bump Plug                | 10/1/2015 | 04:16:03 | COM4   | 7.93                       | 913.00                        | 0.00                               | Final lift was 270 psi, bumped at 750 psi, checked floats and got 3/4 bbl                          |

|       |    |                  |                  |           |          |      |   |         |      |  |
|-------|----|------------------|------------------|-----------|----------|------|---|---------|------|--|
|       |    |                  |                  |           |          |      |   |         |      | back on truck, floats held                       |
| Event | 15 | Pressure Up Well | Pressure Up Well | 10/1/2015 | 04:20:09 | COM4 | 7.94  | 1490.00 | 0.00 | Pressured up to 1500 psi for a 5 min casing test |
| Event | 16 | End Job          | End Job          | 10/1/2015 | 04:25:48 | COM4 |   |         |      |  |
| Event | 17 | Rig Down Lines   | Rig Down Lines   | 10/1/2015 | 04:29:00 | USER | Held a safety meeting before rigging down lines |         |      |  |
| Event | 18 | Depart Location  | Depart Location  | 10/1/2015 | 05:15:00 | USER | Held a safety huddle before leaving location    |         |      |  |