

**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

RGU 523-24-198

**Cyclone 29**

**Post Job Summary**  
**Cement Surface Casing**

Date Prepared: 04/24/2014

Submitted by: Grand Junction Cement Engineering

## The Road to Excellence Starts with Safety

|  |                    |                        |       |                                   |         |                           |                |               |              |                     |
|--|--------------------|------------------------|-------|-----------------------------------|---------|---------------------------|----------------|---------------|--------------|---------------------|
| Sold To #: 300721                            |                    | Ship To #: 3276419     |       | Quote #:                          |         | Sales Order #: 0901283008 |                |               |              |                     |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS |                    |                        |       | Customer Rep: Andrew Brunk        |         |                           |                |               |              |                     |
| Well Name: FEDERAL                           |                    | Well #: RGU 523-24-198 |       | API/UWI #: 05-103-12079-00        |         |                           |                |               |              |                     |
| Field: SULPHUR CREEK                         |                    | City (SAP): MEE        |       | County/Parish: RIO BLANCO         |         | State: COLORADO           |                |               |              |                     |
| Legal Description: 24-1S-98W-2144FSL-1703FEL |                    |                        |       |                                   |         |                           |                |               |              |                     |
| Contractor: CYCLONE                          |                    |                        |       | Rig/Platform Name/Num: CYCLONE 29 |         |                           |                |               |              |                     |
| Job BOM: 392189                              |                    |                        |       |                                   |         |                           |                |               |              |                     |
| Well Type: DIRECTIONAL GAS                   |                    |                        |       |                                   |         |                           |                |               |              |                     |
| Sales Person: HALAMERICA\HAL7171             |                    |                        |       | Srv Supervisor: Edward Deussen    |         |                           |                |               |              |                     |
| Job  |                    |                        |       |                                   |         |                           |                |               |              |                     |
| Formation Name                               |                    |                        |       |                                   |         |                           |                |               |              |                     |
| Formation Depth (MD)                         |                    | Top                    |       |                                   | Bottom  |                           |                |               |              |                     |
| Form Type                                    |                    |                        |       | BHST                              |         |                           |                |               |              |                     |
| Job depth MD                                 |                    | 3988ft                 |       | 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       |
| Open Hole Section                            |                    |                        | 14.75 |                                   |         |                           | 0              | 1750          |              | 0                   |
| Casing                                       |                    | 9.625                  | 8.921 | 36                                |         |                           | 0              | 3984          | 0            | 0                   |
| Open Hole Section                            |                    |                        | 13.5  |                                   |         |                           | 1750           | 3988          | 0            | 0                   |
| Tools and Accessories                        |                    |                        |       |                                   |         |                           |                |               |              |                     |
| Type   | Size in            | Qty                    | Make  | Depth ft                          |         | Type                      | Size in        | Qty           | Make         |                     |
| Guide Shoe                                   |                    |                        |       | 3984                              |         | Top Plug                  |                |               | HES          |                     |
| Float Shoe                                   |                    |                        |       |                                   |         | Bottom Plug               |                |               | HES          |                     |
| Float Collar                                 |                    |                        |       |                                   |         | SSR plug set              |                |               | HES          |                     |
| Insert Float                                 |                    |                        |       |                                   |         | Plug Container            | 9.625          | 1             | HES          |                     |
| Stage Tool                                   |                    |                        |       |                                   |         | Centralizers              |                |               | HES          |                     |
| 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 ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 1  | Fresh Water Spacer | Fresh Water Spacer     |       | 40                                | bbl     | 8.34                      |                |               | 4.0          |                     |
|  |                    |                        |       |                                   |         |                           |                |               |              |                     |
| Fluid #                                      | Stage Type         | Fluid Name             |       | Qty                               | Qty UoM | Mixing Density lbm/gal    | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |



|                     |                        |                                      |          |         |                        |                |               |              |                     |
|---------------------|------------------------|--------------------------------------|----------|---------|------------------------|----------------|---------------|--------------|---------------------|
| 2                   | VersaCem ( TM ) System | VERSACEM (TM) SYSTEM                 | 595      | sack    | 12.8                   | 1.77           |               | 8.0          | 9.32                |
| 9.33 Gal            |                        | FRESH WATER                          |          |         |                        |                |               |              |                     |
|                     |                        |                                      |          |         |                        |                |               |              |                     |
| Fluid #             | Stage Type             | Fluid Name                           | Qty      | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 3                   | VersaCem ( TM ) System | VARICEM (TM) CEMENT                  | 230      | sack    | 12.8                   | 1.96           |               | 6.0          | 10.95               |
| 94 lbm              |                        | TYPE I / II CEMENT, BULK (101439798) |          |         |                        |                |               |              |                     |
| 10.90 Gal           |                        | FRESH WATER                          |          |         |                        |                |               |              |                     |
|                     |                        |                                      |          |         |                        |                |               |              |                     |
| Fluid #             | Stage Type             | Fluid Name                           | Qty      | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 4                   | Displacement           | Displacement                         | 306.4    | bbl     | 8.34                   |                |               | 10.0         |                     |
|                     |                        |                                      |          |         |                        |                |               |              |                     |
| Fluid #             | Stage Type             | Fluid Name                           | Qty      | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 5                   | Fresh Water Spacer     | Fresh Water Spacer                   | 20       | bbl     | 8.34                   |                |               | 4.0          |                     |
|                     |                        |                                      |          |         |                        |                |               |              |                     |
| Fluid #             | Stage Type             | Fluid Name                           | Qty      | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 6                   | VersaCem ( TM ) System | VERSACEM (TM) SYSTEM                 | 1060     | sack    | 12.8                   | 1.96           |               | 8.0          | 10.95               |
| 10.90 Gal           |                        | FRESH WATER                          |          |         |                        |                |               |              |                     |
|                     |                        |                                      |          |         |                        |                |               |              |                     |
| Fluid #             | Stage Type             | Fluid Name                           | Qty      | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 7                   | Displacement           | Fresh Water Spacer                   | 141      | bbl     | 8.34                   |                |               | 10.0         |                     |
|                     |                        |                                      |          |         |                        |                |               |              |                     |
| Cement Left In Pipe |                        | Amount                               | 25.01 ft |         | Reason                 |                | Shoe Joint    |              |                     |
| Comment             |                        |                                      |          |         |                        |                |               |              |                     |

HALLIBURTON

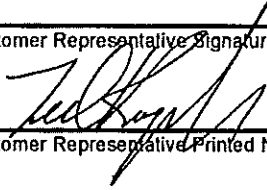


## Summary Report

Crew: \_\_\_\_\_  
Job Start Date: 4/19/2014

Sales Order #: 0901283008  
WO #: 0901283008  
PO/AFE #: N/A

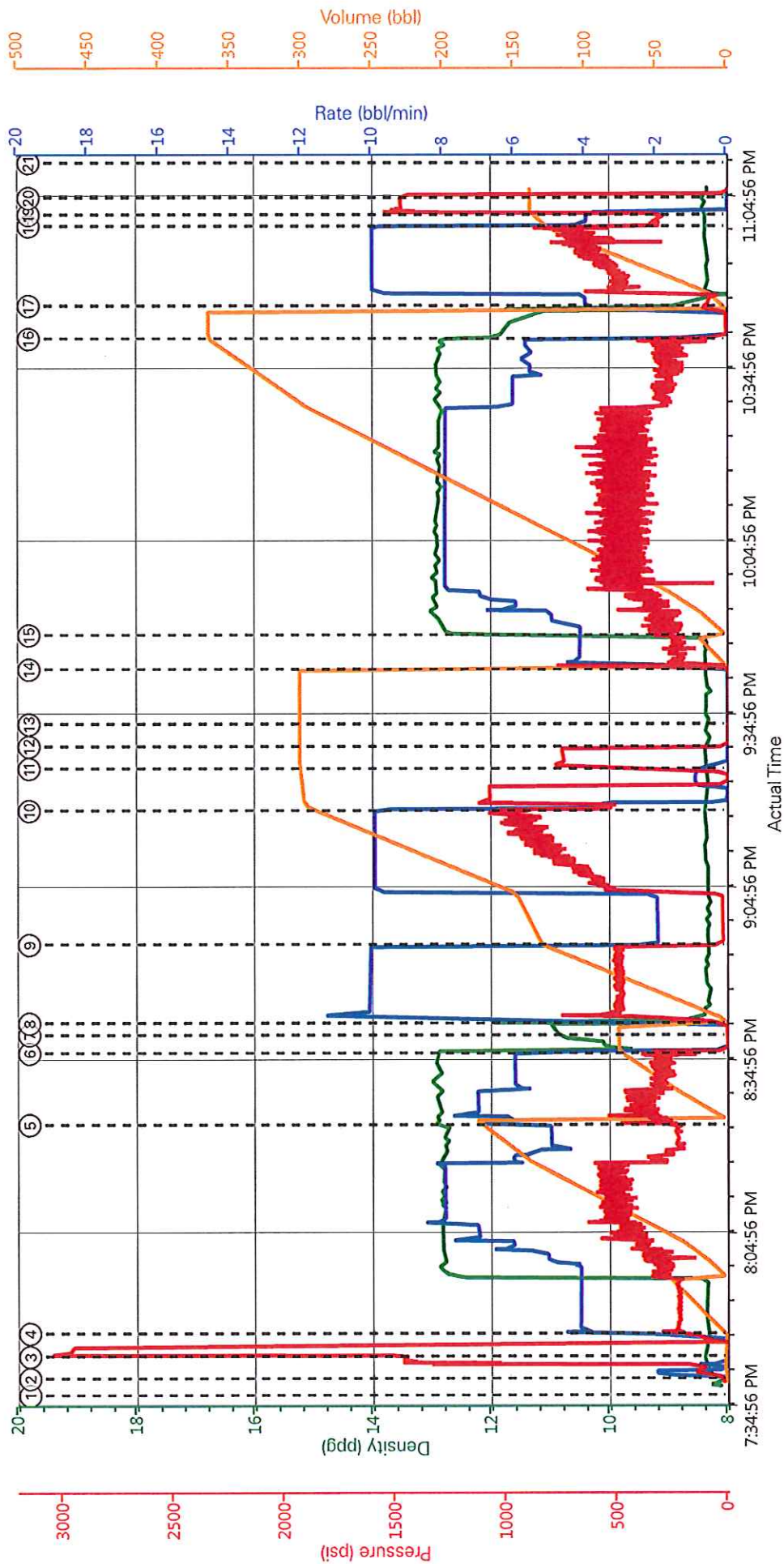
|                   |                                  |                   |             |                         |                |
|-------------------|----------------------------------|-------------------|-------------|-------------------------|----------------|
| Customer:         | WPX ENERGY ROCKY MOUNTAIN Field: | SULPHUR CREEK     | Job Type:   | CMT MULTIPLE STAGES BOM |                |
| UWI / API Number: | 05-103-12079-00                  | County/Parish:    | RIO BLANCO  | Service Supervisor:     | Edward Deussen |
| Well Name:        | FEDERAL                          | State:            | COLORADO    |                         |                |
| Well No:          | RGU 523-24-198                   | Latitude:         | 39.947479   |                         |                |
|                   |                                  | Longitude:        | -108.339358 | Cust Rep Name:          | Andrew Brunk   |
|                   |                                  | Sect / Twn / Rng: | 24/1/98     | Cust Rep Phone #:       |                |

| Remarks:                                 |  |                   |
|--|--|-------------------|
| The Information Stated Herein Is Correct | Customer Representative Signature<br> | Date<br>4/19/2014 |
|  | Customer Representative Printed Name   |                   |

## 4.1 Job Event Log

| Type  | Seq. No. | Graph Label/Activity | Date      | Time     | Source | Pass-Side Pump Pressure (psi) | Downhole Density (ppg) | Combined Pump Rate (bbl/min) | Pump Stage Total (bbl) | Comment  |
|-------|----------|----------------------|-----------|----------|--------|-------------------------------|------------------------|------------------------------|------------------------|--|
| Event | 1        | Start Job            | 4/19/2014 | 19:37:16 | USER   |                               |                        |                              |                        | O/L time 1400 - TP 3988.83, SJ 25.01, MUD 9.5 ppg, 14 3/4" OH to 1750', 13 1/2" OH to TD |
| Event | 2        | Test Lines           | 4/19/2014 | 19:40:11 | USER   | 2971                          |                        |                              |                        | Pressure Held Well   |
| Event | 3        | Pump H2O Spacer      | 4/19/2014 | 19:44:01 | USER   | 222                           | 8.4                    | 4.0                          | 40                     | Fresh Water  |
| Event | 4        | Pump Lead Cement     | 4/19/2014 | 19:48:02 | USER   | 525                           | 12.8                   | 8.0                          | 187.6                  | 595 sks, 12.8 ppg, 1.77 yield, 9.32 gal/sk - Add 60 lbs tuff fiber to first 100 bbl      |
| Event | 5        | Pump Tail Cement     | 4/19/2014 | 20:24:15 | USER   | 305                           | 12.8                   | 6.0                          | 80.3                   | 230 sks, 12.8 ppg, 1.96 yield, 10.95 gal/sk  |
| Event | 6        | Shutdown             | 4/19/2014 | 20:36:40 | USER   |                               |                        |                              |                        |  |
| Event | 7        | Drop Plug            | 4/19/2014 | 20:39:50 | USER   |                               |                        |                              |                        | Rig supplied plug  |
| Event | 8        | Pump Displacement    | 4/19/2014 | 20:41:52 | USER   | 983                           | 8.42                   | 10.0                         | 306.4                  | Fresh Water  |
| Event | 9        | Slow Rate thru Tool  | 4/19/2014 | 20:55:31 | USER   |                               |                        | 2.0                          | 130-150                |  |
| Event | 10       | Slow Rate            | 4/19/2014 | 21:18:44 | USER   | 534                           | 8.39                   | 4.0                          | 250                    |  |
| Event | 11       | Bump Plug            | 4/19/2014 | 21:26:01 | USER   | 550                           |                        |                              |                        |  |
| Event | 12       | Check Floats         | 4/19/2014 | 21:29:53 | USER   | 1070                          |                        |                              |                        | Floats Held - 1 1/2 bbl back   |
| Event | 13       | Drop Opening Device  | 4/19/2014 | 21:33:44 | USER   |                               |                        |                              |                        | Free fall 10 minutes   |
| Event | 14       | Open MSC             | 4/19/2014 | 21:43:15 | USER   | 1240                          | 8.41                   | 0.8                          | 20                     |  |
| Event | 15       | Pump Tail Cement     | 4/19/2014 | 21:49:12 | USER   | 470                           | 12.8                   | 8.0                          | 370.0                  | 1060 sks, 12.8 ppg, 1.96 yield, 10.95 gal/sk   |
| Event | 16       | Shutdown             | 4/19/2014 | 22:40:40 | USER   |                               |                        |                              |                        | Wash up on top of plug   |
| Event | 17       | Pump Displacement    | 4/19/2014 | 22:46:26 | USER   | 708                           | 8.40                   | 10.0                         | 141.0                  | Fresh Water-lost returns   |
| Event | 18       | Slow Rate            | 4/19/2014 | 23:00:16 | USER   | 292                           | 8.38                   | 4.0                          | 130                    |  |
| Event | 19       | Bump Plug            | 4/19/2014 | 23:02:15 | USER   | 302                           |                        |                              |                        | No Cement to surface   |
| Event | 20       | Close MSC            | 4/19/2014 | 23:05:11 | USER   | 1474                          |                        |                              |                        | Floats held - 2 Add hours  |
| Event | 21       | End Job              | 4/19/2014 | 23:11:15 | USER   |                               |                        |                              |                        | Thank you for using Halliburton  |

WPX - RGU 523-24-198 - 2 STAGE SURFACE



DH Density (ppg) Comb Pump Rate (bbl/min) PS Pump Press (psi) Pump Stg Tot (bbl)

- ① Start Job n/a;n/a;n/a;n/a
- ② Test Lines 8.29;1.7;7.1;75;0.29
- ③ Pump H2O Spacer 8.41;0.2963;98;1.95
- ④ Pump Lead Cement 8.28;4.16;209.56;3.86
- ⑤ Pump Tail Cement 12.87;6.05;298.63;175.99
- ⑥ Shutdown 9.6;0.138;7709
- ⑦ Drop Plug 10.91;0.5;7709
- ⑧ Pump Displacement 8.58;5.67;184.25;2.7
- ⑨ Slow Rate thru Tool 8.34;2.01;19.25;132.33
- ⑩ Slow Rate 8.35;3.96;569.57;295.46
- ⑪ Pump Plug 8.41;0.715.82;301.35
- ⑫ Check Floats 8.36;0.4;19;301.35
- ⑬ Drop Opening Device 8.27;0.5;13;301.35
- ⑭ Open MSC 8.42;1.06;770.2;0.67
- ⑮ Pump Tail Cement 12.76;4.15;236.75;3.77
- ⑯ Shutdown 11.86;0.6;12;365.7
- ⑰ Pump Displacement 8.58;4.85;81.5;5.56
- ⑱ Slow Rate 8.36;3.99;321.13;132.18
- ⑲ Bump Plug 8.42;0.1505.21;139.17
- ⑳ Close MSC 8.37;0.1081.45;139.17
- ㉑ End Job n/a;n/a;n/a

HALIBURTON | iCem® Service

Created: 2014-04-19 23:27:12, Version: 3.0.121

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 4/19/2014 7:38:16 PM

Well: FED RGU 523-24-198

Representative: Andrew Brunk

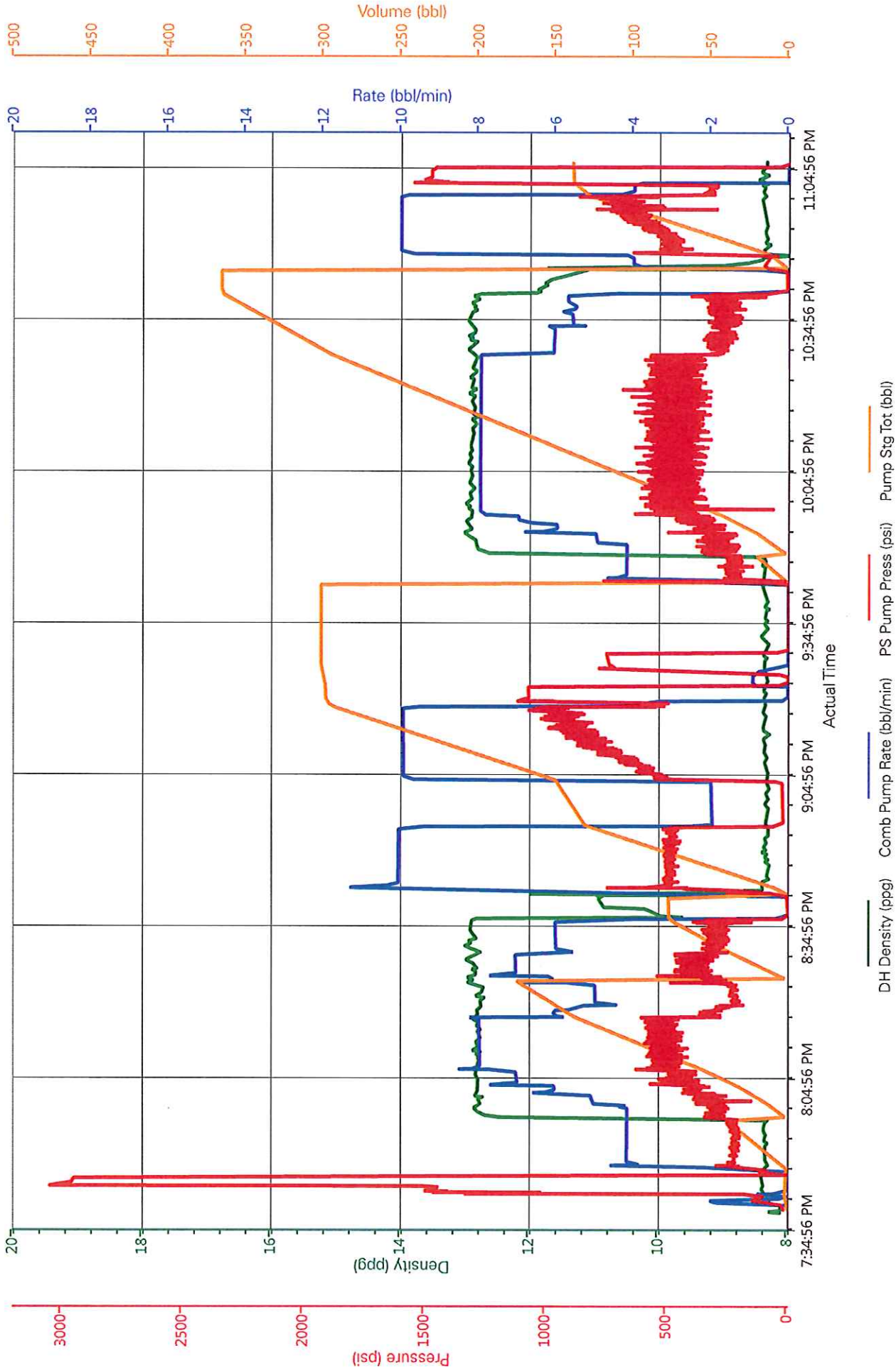
Sales Order #: 901283008

Elite #3: Ed Deussen / Rob Eickhoff

Edit



WPX - RGU 523-24-198 - 2 STAGE SURFACE



▼ **HALLIBURTON** | iCem® Service

Created: 2014-04-19 23:27:12, Version: 3.0.121

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-  
EBUS

Job Date : 4/19/2014 7:38:16 PM

Well : FED RGU 523-24-198

Representative : Andrew Brunk

Sales Order # : 901283008

Elite #3 : Ed Deussen / Rob Eickhoff

# HALLIBURTON

## Water Analysis Report

|               |            |            |           |
|---------------|------------|------------|-----------|
| Company:      | WPX        | Date:      | 4/19/2014 |
| Submitted by: | ED DEUSSEN | Date Rec.: | 4/19/2014 |
| Attention:    | J.TROUT    | S.O.#      | 901283008 |
| Lease         | FED RGU    | Job Type:  | SURFACE   |
| Well #        | 523-24-198 |            |           |

|                  |      |            |
|------------------|------|------------|
| Specific Gravity | MAX  | 1          |
| pH               | 8    | 7.5        |
| Potassium (K)    | 5000 | 200 Mg / L |
| Calcium (Ca)     | 500  | 250 Mg / L |
| Iron (FE2)       | 300  | 0 Mg / L   |
| Chlorides (Cl)   | 3000 | 0 Mg / L   |



|  |                                |   |
|--|--------------------------------|---|
| <b>Sales Order #:</b><br>0901283008                    | <b>Line Item:</b><br>10        | <b>Survey Conducted Date:</b><br>4/20/2014                    |
| <b>Customer:</b><br>WPX ENERGY ROCKY MOUNTAIN LLC-EBUS |                                | <b>Job Type (BOM):</b><br>CMT MULTIPLE STAGES BOM             |
| <b>Customer Representative:</b><br>TED RAGSDALE        |                                | <b>API / UWI: (leave blank if unknown)</b><br>05-103-12079-00 |
| <b>Well Name:</b><br>FEDERAL                           |                                | <b>Well Number:</b><br>0080359324                             |
| <b>Well Type:</b><br>DIRECTIONAL GAS                   | <b>Well Country:</b><br>USA    |   |
| <b>H2S Present:</b><br>No                              | <b>Well State:</b><br>COLORADO | <b>Well County:</b><br>RIO BLANCO                             |

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

### CUSTOMER SATISFACTION SURVEY

| CATEGORY                | CUSTOMER SATISFACTION RESPONSE                                 |                  |
|-------------------------|--|------------------|
| Survey Conducted Date   | The date the survey was conducted                              | 4/20/2014        |
| Survey Interviewer      | The survey interviewer is the person who initiated the survey. | HB57194          |
| Customer Participation  | Did the customer participate in this survey? (Y/N)             | Yes              |
| Customer Representative | Enter the Customer representative name                         | TED RAGSDALE     |
| HSE                     | Was our HSE performance satisfactory? Circle Y or N            | Yes              |
| Equipment               | Were you satisfied with our Equipment? Circle Y or N           | Yes              |
| Personnel               | Were you satisfied with our people? Circle Y or N              | Yes              |
| Customer Comment        | Customer's Comment   | WELL DONE/THANKS |

CUSTOMER SIGNATURE

|  |                                |   |
|--|--------------------------------|---|
| <b>Sales Order #:</b><br>0901283008                    | <b>Line Item:</b><br>10        | <b>Survey Conducted Date:</b><br>4/20/2014                    |
| <b>Customer:</b><br>WPX ENERGY ROCKY MOUNTAIN LLC-EBUS |                                | <b>Job Type (BOM):</b><br>CMT MULTIPLE STAGES BOM             |
| <b>Customer Representative:</b><br>TED RAGSDALE        |                                | <b>API / UWI: (leave blank if unknown)</b><br>05-103-12079-00 |
| <b>Well Name:</b><br>FEDERAL                           |                                | <b>Well Number:</b><br>0080359324                             |
| <b>Well Type:</b><br>DIRECTIONAL GAS                   | <b>Well Country:</b><br>USA    |   |
| <b>H2S Present:</b><br>No                              | <b>Well State:</b><br>COLORADO | <b>Well County:</b><br>RIO BLANCO                             |

### KEY PERFORMANCE INDICATORS

| General   |           |
|---|-----------|
| <b>Survey Conducted Date</b><br>The date the survey was conducted | 4/20/2014 |

| Cementing KPI Survey   |                         |
|--|-------------------------|
| <b>Type of Job</b><br>Select the type of job. (Cementing or Non-Cementing)   | 0                       |
| <b>Select the Maximum Deviation range for this Job</b><br>What is the highest deviation for the job you just completed? This may not be the maximum well deviation.  | Vertical                |
| <b>Total Operating Time (hours)</b><br>Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.   | 6                       |
| <b>HSE Incident, Accident, Injury</b><br>HSE Incident, Accident, Injury. This should be recordable incidents only.   | No                      |
| <b>Was the job purpose achieved?</b><br>Was the job delivered correctly as per customer agreed design?   | Yes                     |
| <b>Operating Hours (Pumping Hours)</b><br>Total number of hours pumping fluid on this job. Enter in decimal format.  | 3                       |
| <b>Customer Non-Productive Rig Time (hrs)</b><br>Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none. | 0                       |
| <b>Type of Rig Classification Job Was Performed</b><br>Type Of Rig (classification) Job Was Performed On   | Drilling Rig (Portable) |
| <b>Number Of JSAs Performed</b><br>Number Of Jsas Performed  | 5                       |
| <b>Number of Unplanned Shutdowns</b><br>Unplanned shutdown is when injection stops for any period of time.   | 0                       |
| <b>Was this a Primary Cement Job (Yes / No)</b>  | Yes                     |

|  |                                |   |
|--|--------------------------------|---|
| <b>Sales Order #:</b><br>0901283008                    | <b>Line Item:</b><br>10        | <b>Survey Conducted Date:</b><br>4/20/2014                    |
| <b>Customer:</b><br>WPX ENERGY ROCKY MOUNTAIN LLC-EBUS |                                | <b>Job Type (BOM):</b><br>CMT MULTIPLE STAGES BOM             |
| <b>Customer Representative:</b><br>TED RAGSDALE        |                                | <b>API / UWI: (leave blank if unknown)</b><br>05-103-12079-00 |
| <b>Well Name:</b><br>FEDERAL                           |                                | <b>Well Number:</b><br>0080359324                             |
| <b>Well Type:</b><br>DIRECTIONAL GAS                   | <b>Well Country:</b><br>USA    |   |
| <b>H2S Present:</b><br>No                              | <b>Well State:</b><br>COLORADO | <b>Well County:</b><br>RIO BLANCO                             |

|  |     |
|--|-----|
| Primary Cement Job= Casing job, Liner job, or Tie-back job.  |     |
| <b>Did We Run Wiper Plugs?</b><br>Did We Run Top And Bottom Casing Wiper Plugs?  | Top |
| <b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b><br>Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100       | 98  |
| <b>Was Automated Density Control Used?</b><br>Was Automated Density Control (ADC) Used ?   | Yes |
| <b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b><br>Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100 | 99  |
| <b>Nbr of Remedial Sqz Jobs Rqd - Competition</b><br>Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition   | 0   |
| <b>Nbr of Remedial Plug Jobs Rqd - HES</b><br>Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES   | 0   |
| <b>Nbr of Remedial Sqz Jobs Rqd - HES</b><br>Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES   | 0   |