

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 414-2

**Aztec 1000**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 07/03/2014  
Job Date: 04/23/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

|   |                    |                                   |                           |
|---|--------------------|-----------------------------------|---------------------------|
| Sold To #: 300721                                 | Ship To #: 3191540 | Quote #:                          | Sales Order #: 0901286318 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS      |                    | Customer Rep: Josh Caribay        |                           |
| Well Name: WPX ENERGY                             | Well #: PA 414-2   | API/UWI #: 05-045-22144-00        |                           |
| Field: PARACHUTE                                  | City (SAP): PAR    | County/Parish: GARFIELD           | State: COLORADO           |
| Legal Description: NE SW-2-7S-95W-2010FSL-1559FWL |                    |                                   |                           |
| Contractor:                                       |                    | Rig/Platform Name/Num: Aztec 1000 |                           |
| Job BOM: 7521                                     |                    |                                   |                           |
| Well Type: DIRECTIONAL GAS                        |                    |                                   |                           |
| Sales Person: HALAMERICA\HAL7171                  |                    | Srvc Supervisor: ERIC CARTER      |                           |
| <b>Job</b>  |                    |                                   |                           |

|                        |       |                   |                   |
|------------------------|-------|-------------------|-------------------|
| Formation Name         |       |                   |                   |
| Formation Depth (MD)   | Top   | 0 FT.             | Bottom 885.35 FT. |
| Form Type              | BHST  |                   |                   |
| Job depth MD           | 950ft | Job Depth TVD     | 910.35 FT.        |
| Water Depth            |       | Wk Ht Above Floor | 5 FT.             |
| 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 |            |         | 13.5  |               |        |       | 0         | 885.35       |            |               |
| Casing            |            | 9.625   | 9.001 | 32.3          |        |       | 0         | 885.35       |            |               |

| Tools and Accessories |         |     |      |          |                |         |     |      |  |
|-----------------------|---------|-----|------|----------|----------------|---------|-----|------|--|
| Type                  | Size in | Qty | Make | Depth ft | Type           | Size in | Qty | Make |  |
| Guide Shoe            |         |     |      |          | Top Plug       | 9.625   | 1   | HES  |  |
| Float Shoe            |         |     |      |          | Bottom Plug    |         |     |      |  |
| Float Collar          |         |     |      |          | SSR plug set   |         |     |      |  |
| Insert Float          |         |     |      |          | Plug Container | 9.625   | 1   |      |  |
| Stage Tool            |         |     |      |          | Centralizers   |         | 10  |      |  |

| 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  | barrel  | 8.4                    |                             |               | 4            |                     |  |
| 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 |  |
| 2               | Tail Cement        | VARICEM (TM) CEMENT | 265 | sack    | 12.8                   | 2.11                        |               | 8            | 11.77               |  |

| 11.71 Gal           |                          | FRESH WATER              |       |         |                           |                                |                  |                     |                           |
|---------------------|--------------------------|--------------------------|-------|---------|---------------------------|--------------------------------|------------------|---------------------|---------------------------|
| Fluid #             | Stage Type               | Fluid Name               | Qty   | Qty UoM | Mixing Density<br>lbm/gal | Yield<br>ft <sup>3</sup> /sack | Mix Fluid<br>Gal | Rate<br>bbl/mi<br>n | Total Mix<br>Fluid<br>Gal |
| 3                   | Fresh Water Displacement | Fresh Water Displacement | 68.2  | bbl     | 8.4                       |                                |                  | 9                   |                           |
| Cement Left In Pipe |                          | Amount                   | 44 ft |         | Reason                    |                                | Shoe Joint       |                     |                           |
| Comment             |                          |                          |       |         |                           |                                |                  |                     |                           |

4.1 Job Event Log

| Type  | Seq. No. | Activity                              | Graph Label                           | Date      | Time     | Source | DH Density (ppg) | PS Pump Press (psi) | Comb Pump Rate (bbl/min) | Pump Sig Tot (bbl) | Comment  |
|-------|----------|---------------------------------------|---------------------------------------|-----------|----------|--------|------------------|---------------------|--------------------------|--------------------|--|
| Event | 1        | Call Out                              | Call Out                              | 4/23/2014 | 08:00    | USER   |                  |                     |                          |                    |  |
| Event | 2        | Depart Yard Safety Meeting            | Depart Yard Safety Meeting            | 4/23/2014 | 10:50    | USER   |                  |                     |                          |                    | ATTENDED BY ALL HES CREW   |
| Event | 3        | Crew Leave Yard                       | Crew Leave Yard                       | 4/23/2014 | 11:00    | USER   |                  |                     |                          |                    |  |
| Event | 4        | Arrive At Loc                         | Arrive At Loc                         | 4/23/2014 | 12:00    | USER   |                  |                     |                          |                    |  |
| Event | 5        | Assessment Of Location Safety Meeting | Assessment Of Location Safety Meeting | 4/23/2014 | 15:30    | USER   |                  |                     |                          |                    | ATTENDED BY ALL HES CREW   |
| Event | 6        | Other                                 | Other                                 | 4/23/2014 | 15:40    | USER   |                  |                     |                          |                    |  |
| Event | 7        | Pre-Rig Up Safety Meeting             | Pre-Rig Up Safety Meeting             | 4/23/2014 | 15:55    | USER   |                  |                     |                          |                    | ATTENDED BY ALL HES CREW   |
| Event | 8        | Rig-Up Equipment                      | Rig-Up Equipment                      | 4/23/2014 | 16:00    | USER   |                  |                     |                          |                    |  |
| Event | 9        | Pre-Rig Up Safety Meeting             | Pre-Rig Up Safety Meeting             | 4/23/2014 | 16:20    | USER   |                  |                     |                          |                    | ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP   |
| Event | 10       | Start Job                             | Start Job                             | 4/23/2014 | 16:55:00 | USER   |                  |                     |                          |                    | TP 885.35', LJ 25', SJ 44', MW 10.3 PPG, CASING 9.625", 32.3#, H-40, CENTRALIZERS 10, HOLE 13.5", RIG CIRCULATED FOR 1 HR PRIOR TO JOB |
| Event | 11       | Other                                 | Other                                 | 4/23/2014 | 16:56:00 | USER   | 8.33             | 40                  | 2                        | 2                  | FILL LINES   |
| Event | 12       | Test Lines                            | Test Lines                            | 4/23/2014 | 16:57:52 | USER   |                  |                     |                          |                    | PRESSURED UP TO 2980 PSI, PRESSURE HELD  |
| Event | 13       | Pump Spacer                           | Pump Spacer                           | 4/23/2014 | 17:02:30 | USER   | 8.33             | 110                 | 4                        | 20                 | FRESH WATER  |
| Event | 14       | Pump Tail Cement                      | Pump Tail Cement                      | 4/23/2014 | 17:11:17 | USER   | 12.8             | 410                 | 7                        | 99.6               | 265 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK   |
| Event | 15       | Shutdown                              | Shutdown                              | 4/23/2014 | 17:27:53 | USER   |                  |                     |                          |                    |  |
| Event | 16       | Drop Top Plug                         | Drop Top Plug                         | 4/23/2014 | 17:31:44 | USER   |                  |                     |                          |                    | PLUG LAUNCHED  |
| Event | 17       | Pump Displacement                     | Pump Displacement                     | 4/23/2014 | 17:32:20 | USER   | 8.33             | 500                 | 10                       | 58.2               | FRESH WATER  |

|       |    |  |  |           |          |      |      |     |   |    |  |
|-------|----|--|--|-----------|----------|------|------|-----|---|----|--|
| Event | 18 | Slow Rate                              | Slow Rate                              | 4/23/2014 | 17:42:30 | USER | 8.33 | 210 | 2 | 10 |  |
| Event | 19 | Bump Plug                              | Bump Plug                              | 4/23/2014 | 17:46:23 | USER |      | 990 |   |    | PLUG LANDED  |
| Event | 20 | Check Floats                           | Check Floats                           | 4/23/2014 | 17:49:04 | USER |      |     |   |    | FLOATS HELD  |
| Event | 21 | End Job                                | End Job                                | 4/23/2014 | 17:49:36 | USER |      |     |   |    | GOOD CIRCULATION<br>THROUGH OUT JOB, 20<br>BBLS CEMENT TO SURFACE,<br>PIPE NOT MOVED DURING<br>JOB |
| Event | 22 | Post-Job Safety Meeting (Pre Rig-Down) | Post-Job Safety Meeting (Pre Rig-Down) | 4/23/2014 | 17:50    | USER |      |     |   |    | ATTENDED BY ALL HES<br>CREW  |
| Event | 23 | Rig-Down Equipment                     | Rig-Down Equipment                     | 4/23/2014 | 17:55    | USER |      |     |   |    |  |
| Event | 24 | Depart Location Safety Meeting         | Depart Location Safety Meeting         | 4/23/2014 | 18:20    | USER |      |     |   |    | ATTENDED BY ALL HES<br>CREW  |
| Event | 25 | Crew Leave Location                    | Crew Leave Location                    | 4/23/2014 | 18:30    | USER |      |     |   |    | THANK YOU FOR USING<br>HALLIBURTON CEMENT,<br>ERIC CARTER AND CREW.                                |

|  |                                |   |
|--|--------------------------------|---|
| <b>Sales Order #:</b><br>0901286318                    | <b>Line Item:</b><br>10        | <b>Survey Conducted Date:</b><br>4/23/2014                    |
| <b>Customer:</b><br>WPX ENERGY ROCKY MOUNTAIN LLC-EBUS |                                | <b>Job Type (BOM):</b><br>CMT SURFACE CASING BOM              |
| <b>Customer Representative:</b><br>JOSH GARIBAY        |                                | <b>API / UWI: (leave blank if unknown)</b><br>05-045-22144-00 |
| <b>Well Name:</b><br>WPX ENERGY                        |                                | <b>Well Number:</b><br>0080226501                             |
| <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>GARFIELD                               |

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                              | 4/23/2014    |
| Survey Interviewer      | The survey interviewer is the person who initiated the survey. | HX15491      |
| Customer Participation  | Did the customer participate in this survey? (Y/N)             | Yes          |
| Customer Representative | Enter the Customer representative name                         | JOSH GARIBAY |
| 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   |              |

|                           |
|---------------------------|
| <b>CUSTOMER SIGNATURE</b> |
|---------------------------|

|  |                                |   |
|--|--------------------------------|---|
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| <b>H2S Present:</b><br>No                              | <b>Well State:</b><br>COLORADO | <b>Well County:</b><br>GARFIELD                               |

### KEY PERFORMANCE INDICATORS

|                                   |           |
|-----------------------------------|-----------|
| General                           |           |
| <b>Survey Conducted Date</b>      | 4/23/2014 |
| The date the survey was conducted |           |

|   |                         |
|---|-------------------------|
| Cementing KPI Survey  |                         |
| <b>Type of Job</b>  | 0                       |
| Select the type of job. (Cementing or Non-Cementing)  |                         |
| <b>Select the Maximum Deviation range for this Job</b>  | Vertical                |
| What is the highest deviation for the job you just completed? This may not be the maximum well deviation.   |                         |
| <b>Total Operating Time (hours)</b>   | 3                       |
| Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.   |                         |
| <b>HSE Incident, Accident, Injury</b>   | No                      |
| HSE Incident, Accident, Injury. This should be recordable incidents only.   |                         |
| <b>Was the job purpose achieved?</b>  | Yes                     |
| Was the job delivered correctly as per customer agreed design?  |                         |
| <b>Operating Hours (Pumping Hours)</b>  | 1                       |
| Total number of hours pumping fluid on this job. Enter in decimal format.   |                         |
| <b>Customer Non-Productive Rig Time (hrs)</b>   | 0                       |
| 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. |                         |
| <b>Type of Rig Classification Job Was Performed</b>   | Drilling Rig (Portable) |
| Type Of Rig (classification) Job Was Performed On   |                         |
| <b>Number Of JSAs Performed</b>   | 5                       |
| Number Of Jsas Performed  |                         |
| <b>Number of Unplanned Shutdowns</b>  | 0                       |
| Unplanned shutdown is when injection stops for any period of time.  |                         |
| <b>Was this a Primary Cement Job (Yes / No)</b>   | Yes                     |

|  |                                |   |
|--|--------------------------------|---|
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|  |     |
|--|-----|
| 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 | 98  |
| <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   |