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# **WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**PA 13-4  
PARACHUTE  
Garfield County , Colorado**

## **Cement Surface Casing**

**01-Feb-2013**

### **Post Job Summary**

## The Road to Excellence Starts with Safety

|   |                       |  |                          |
|---|-----------------------|--|--------------------------|
| Sold To #: 300721                                   | Ship To #: 2976512    | Quote #:   | Sales Order #: 900162886 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS        |                       | Customer Rep: Wilson, W.C.                               |                          |
| Well Name: PA                                       |                       | Well #: 13-4   | API/UWI #: 05-045-20064  |
| Field: PARACHUTE                                    | City (SAP): PARACHUTE | County/Parish: Garfield                                  | State: Colorado          |
| Lat: N 39.464 deg. OR N 39 deg. 27 min. 48.73 secs. |                       | Long: W 108.007 deg. OR W -109 deg. 59 min. 34.966 secs. |                          |
| Contractor: NABORS 577                              |                       | Rig/Platform Name/Num: NABORS 577                        |                          |
| Job Purpose: Cement Surface Casing                  |                       |  |                          |
| Well Type: Development Well                         |                       | Job Type: Cement Surface Casing                          |                          |
| Sales Person: MAYO, MARK                            |                       | Srvc Supervisor: SMITH, CHRISTOPHER                      | MBU ID Emp #: 452619     |

## Job Personnel

| HES Emp Name          | Exp Hrs | Emp #  | HES Emp Name    | Exp Hrs | Emp #  | HES Emp Name             | Exp Hrs | Emp #  |
|-----------------------|---------|--------|-----------------|---------|--------|--------------------------|---------|--------|
| BLUST, CHARLES Thomas | 6.0     | 386662 | SINCLAIR, DAN J | 6.0     | 338784 | SMITH, CHRISTOPHER Scott | 6.0     | 452619 |
| WOLFE, JON P          | 6.0     | 485217 |                 |         |        |                          |         |        |

## Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10296152C  | 60 mile        | 10713212   | 60 mile        | 11259884   | 60 mile        | 11360871   | 60 mile        |
| 11808849   | 60 mile        |            |                |            |                |            |                |

## Job Hours

| Date       | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|------------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 02.01.2013 | 6                 | 2               |      |                   |                 |      |                   |                 |

**TOTAL** Total is the sum of each column separately

## Job

| Formation Name | Formation Depth (MD) | Top | Bottom | Job Type | Job depth MD | Job Depth TVD | Water Depth       | Perforation Depth (MD) | From | To |
|----------------|----------------------|-----|--------|----------|--------------|---------------|-------------------|------------------------|------|----|
|                |                      |     |        | BHST     | 832. ft      | 832. ft       |                   |                        |      |    |
|                |                      |     |        |          |              |               | Wk Ht Above Floor |                        |      |    |
|                |                      |     |        |          |              |               | 4. ft             |                        |      |    |
|                |                      |     |        |          |              |               |                   |                        |      |    |

## Job Times

| Date            | Time  | Time Zone |
|-----------------|-------|-----------|
| 01 - Feb - 2013 | 07:00 | MST       |
| 01 - Feb - 2013 | 10:30 | MST       |
| 01 - Feb - 2013 | 14:32 | MST       |
| 01 - Feb - 2013 | 15:18 | MST       |
| 01 - Feb - 2013 | 16:20 | MST       |

## Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
|-------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|

Sales/Rental/3<sup>rd</sup> Party (HES)

| Description                              | Qty | Qty uom | Depth | Supplier |
|--|-----|---------|-------|----------|
| PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA | 1   | EA      |       |          |

## Tools and Accessories

| Type         | Size | Qty | Make | Depth | Type        | Size | Qty | Make | Depth | Type           | Size   | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|--------|-----|------|
| Guide Shoe   |      |     |      |       | Packer      |      |     |      |       | Top Plug       | 9.625" | 1   | HES  |
| Float Shoe   |      |     |      |       | Bridge Plug |      |     |      |       | Bottom Plug    |        |     |      |
| Float Collar |      |     |      |       | Retainer    |      |     |      |       | SSR plug set   |        |     |      |
| Insert Float |      |     |      |       |             |      |     |      |       | Plug Container | 9.625" | 1   | HES  |
| 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 ft3/sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |

| Stage/Plug #: 1                          |              |                               |        |                                   |                        |                           |                  |              |                        |  |
|--|--------------|-------------------------------|--------|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|--|
| Fluid #                                  | Stage Type   | Fluid Name                    | Qty    | Qty uom                           | Mixing Density lbm/gal | Yield ft <sup>3</sup> /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |  |
| 1  | Water Spacer |                               | 0.00   | bbl                               | 8.33                   | .0                        | .0               | 4.0          |                        |  |
| 2  | Tail Cement  | VERSACEM (TM) SYSTEM (452010) | 232.0  | sacks                             | 12.8                   | 2.11                      | 11.75            | 7.0          | 11.75                  |  |
| 3  | Displacement |                               | 62.00  | bbl                               | 8.33                   | .0                        | .0               | 10.0         |                        |  |
| Calculated Values                        |              | Pressures                     |        | Volumes                           |                        |                           |                  |              |                        |  |
| Displacement                             | 62           | Shut In: Instant              |        | Lost Returns                      | 0                      | Cement Slurry             | 87               | Pad          |                        |  |
| Top Of Cement                            | SURFACE      | 5 Min                         |        | Cement Returns                    | 25                     | Actual Displacement       | 62               | Treatment    |                        |  |
| Frac Gradient                            |              | 15 Min                        |        | Spacers                           | 20                     | Load and Breakdown        |                  | Total Job    | 169                    |  |
| Rates                                    |              |                               |        |                                   |                        |                           |                  |              |                        |  |
| Circulating                              | 18           | Mixing                        | 7      | Displacement                      | 10                     | Avg. Job                  | 11               |              |                        |  |
| Cement Left In Pipe                      | Amount       | 44.15 ft                      | Reason | Shoe Joint                        |                        |                           |                  |              |                        |  |
| Frac Ring # 1 @                          | ID           | Frac ring # 2 @               | ID     | Frac Ring # 3 @                   | ID                     | Frac Ring # 4 @           | ID               |              |                        |  |
| The Information Stated Herein Is Correct |              |                               |        | Customer Representative Signature |                        |                           |                  |              |                        |  |

*The Road to Excellence Starts with Safety*

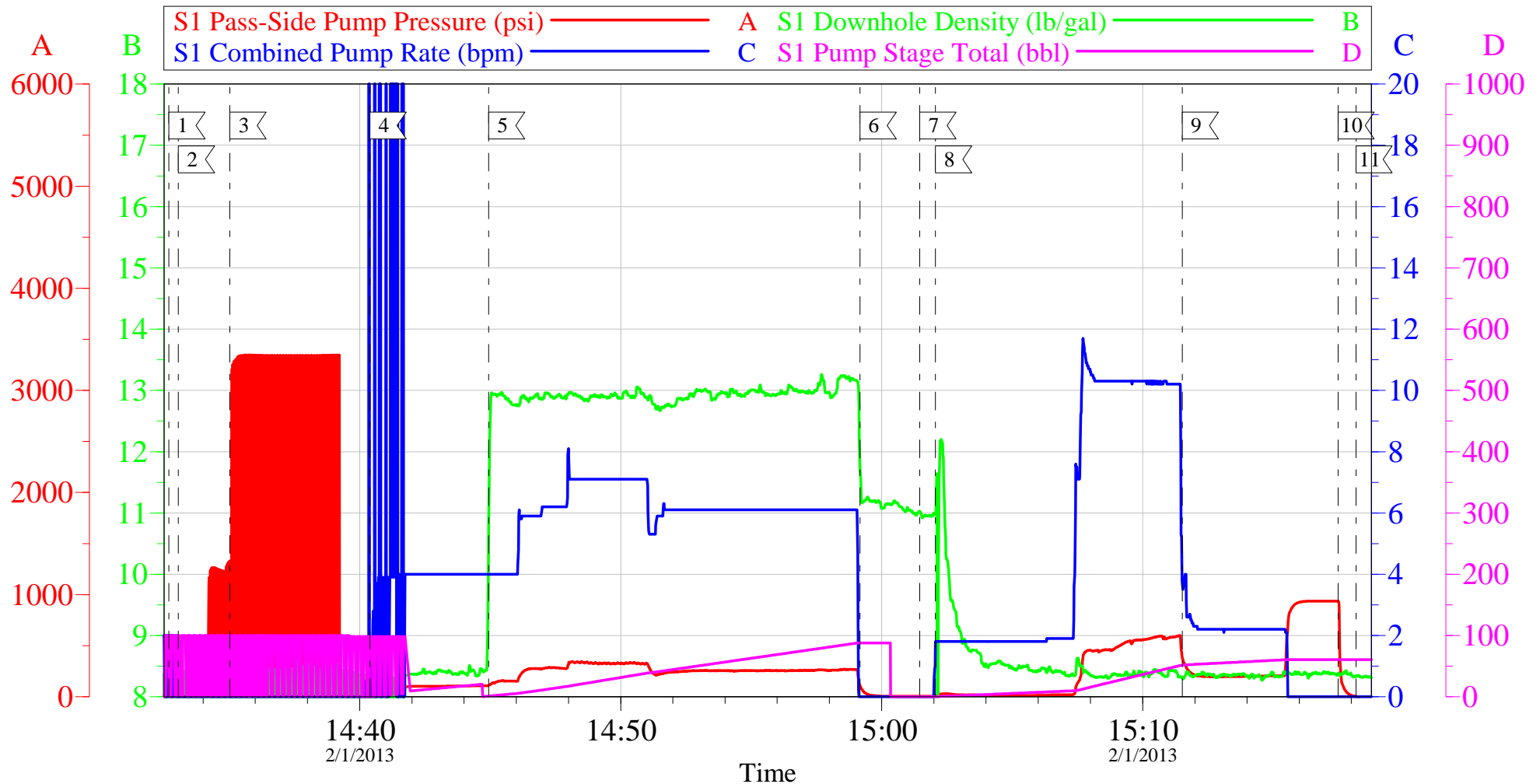
|  |  |                              |   |   |  |                                 |  |
|--|--|------------------------------|---|---|--|---------------------------------|--|
| <b>Sold To #:</b> 300721                                   |  | <b>Ship To #:</b> 2976512    |   | <b>Quote #:</b>   |  | <b>Sales Order #:</b> 900162886 |  |
| <b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS        |  |                              |   | <b>Customer Rep:</b> Wilson, W.C.                               |  |                                 |  |
| <b>Well Name:</b> PA                                       |  |                              | <b>Well #:</b> 13-4                       |   |  | <b>API/UWI #:</b> 05-045-20064  |  |
| <b>Field:</b> PARACHUTE                                    |  | <b>City (SAP):</b> PARACHUTE |   | <b>County/Parish:</b> Garfield                                  |  | <b>State:</b> Colorado          |  |
| <b>Legal Description:</b>                                  |  |                              |   |   |  |                                 |  |
| <b>Lat:</b> N 39.464 deg. OR N 39 deg. 27 min. 48.73 secs. |  |                              |   | <b>Long:</b> W 108.007 deg. OR W -109 deg. 59 min. 34.966 secs. |  |                                 |  |
| <b>Contractor:</b> NABORS 577                              |  |                              | <b>Rig/Platform Name/Num:</b> NABORS 577  |   |  |                                 |  |
| <b>Job Purpose:</b> Cement Surface Casing                  |  |                              |   |   |  | <b>Ticket Amount:</b>           |  |
| <b>Well Type:</b> Development Well                         |  |                              | <b>Job Type:</b> Cement Surface Casing    |   |  |                                 |  |
| <b>Sales Person:</b> MAYO, MARK                            |  |                              | <b>Srv Supervisor:</b> SMITH, CHRISTOPHER |   |  | <b>MBU ID Emp #:</b> 452619     |  |

| Activity Description                  | Date/Time        | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments   |
|---------------------------------------|------------------|-------|--------------|------------|-------|---------------|--------|--|
|                                       |                  |       |              | Stage      | Total | Tubing        | Casing |  |
| Pre-Convoy Safety Meeting             | 02/01/2013 09:00 |       |              |            |       |               |        | ALL HES PERSONEL   |
| Crew Leave Yard                       | 02/01/2013 09:15 |       |              |            |       |               |        |  |
| Arrive At Loc                         | 02/01/2013 10:30 |       |              |            |       |               |        | RIG POOH   |
| Assessment Of Location Safety Meeting | 02/01/2013 10:45 |       |              |            |       |               |        | ALL HES PERSONEL   |
| Rig-Up Equipment                      | 02/01/2013 13:30 |       |              |            |       |               |        | ELITE 9, 1- 660 BULK TRUCK, 1- F 550 PICKUP.                                 |
| Rig-Up Completed                      | 02/01/2013 14:00 |       |              |            |       |               |        |  |
| Pre-Job Safety Meeting                | 02/01/2013 14:15 |       |              |            |       |               |        | ALL HES PERSONEL AND RIG CREW  |
| Start Job                             | 02/01/2013 14:32 |       |              |            |       |               |        | TD- 832', TP- 820', SJ- 44.15', OH- 13.5", CSG- 9.625" 32.3# J55, MUD- 9.4 # |
| Pressure Test                         | 02/01/2013 14:35 |       | 0.5          | 0.5        |       |               |        | ALL LINES HELD PRESSURE @ 3340   |
| Pump Spacer 1                         | 02/01/2013 14:40 |       | 4            | 20         |       |               | 105.0  | FRESH WATER  |
| Pump Tail Cement                      | 02/01/2013 14:44 |       | 8            | 87         |       |               | 322.0  | 232 SKS, 12.8 PPG, 2.11 FT3/ FT, 11.75 GAL/SK, 70 BC @ 1:51 HRS              |
| Shutdown                              | 02/01/2013 14:59 |       |              |            |       |               |        | WASH UP ON TOP OF PLUG PER COMP REP  |
| Drop Top Plug                         | 02/01/2013 15:01 |       |              |            |       |               |        | PLUG WENT  |
| Pump Displacement                     | 02/01/2013 15:02 |       | 10           | 52         |       |               | 543.0  | FRESH WATER  |
| Slow Rate                             | 02/01/2013 15:11 |       | 2            | 10         |       |               | 225.0  |  |

| Activity Description                   | Date/Time        | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments   |
|--|------------------|-------|--------------|------------|-------|---------------|--------|--|
|  |                  |       |              | Stage      | Total | Tubing        | Casing |  |
| Bump Plug                              | 02/01/2013 15:15 |       |              | 62         |       |               | 900.0  | PLUG BUMPED  |
| Check Floats                           | 02/01/2013 15:17 |       |              |            |       |               |        | FLOATS HELD  |
| End Job                                | 02/01/2013 15:18 |       |              |            |       |               |        | GOOD RETURNS THROUGHOUT JOB, 15 BBLs OF CEMENT BACK TO SURFACE, PIPE WAS NOT MOVED DURING THE JOB. |
| Post-Job Safety Meeting (Pre Rig-Down) | 02/01/2013 15:25 |       |              |            |       |               |        | ALL HES PERSONEL   |
| Rig-Down Completed                     | 02/01/2013 16:00 |       |              |            |       |               |        |  |
| Depart Location Safety Meeting         | 02/01/2013 16:10 |       |              |            |       |               |        | ALL HES PERSONEL   |
| Crew Leave Location                    | 02/01/2013 16:20 |       |              |            |       |               |        |  |
| Other                                  | 02/01/2013 16:21 |       |              |            |       |               |        | THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW   |

# WPX - PA 13-4

9.625" SURFACE



## Local Event Log

|                 |          |                    |          |              |          |
|-----------------|----------|--------------------|----------|--------------|----------|
| 1 START JOB     | 14:32:41 | 2 FILL LINES       | 14:33:03 | 3 TEST LINES | 14:35:02 |
| 4 H2O SPACER    | 14:40:24 | 5 CEMENT           | 14:44:56 | 6 SHUTDOWN   | 14:59:10 |
| 7 DROP PLUG     | 15:01:28 | 8 H2O DISPLACEMENT | 15:02:04 | 9 SLOW RATE  | 15:11:31 |
| 10 CHECK FLOATS | 15:17:29 | 11 END JOB         | 15:18:10 |              |          |

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS  
 Well Description: PA 13-4  
 Company Rep: WC.WILSON

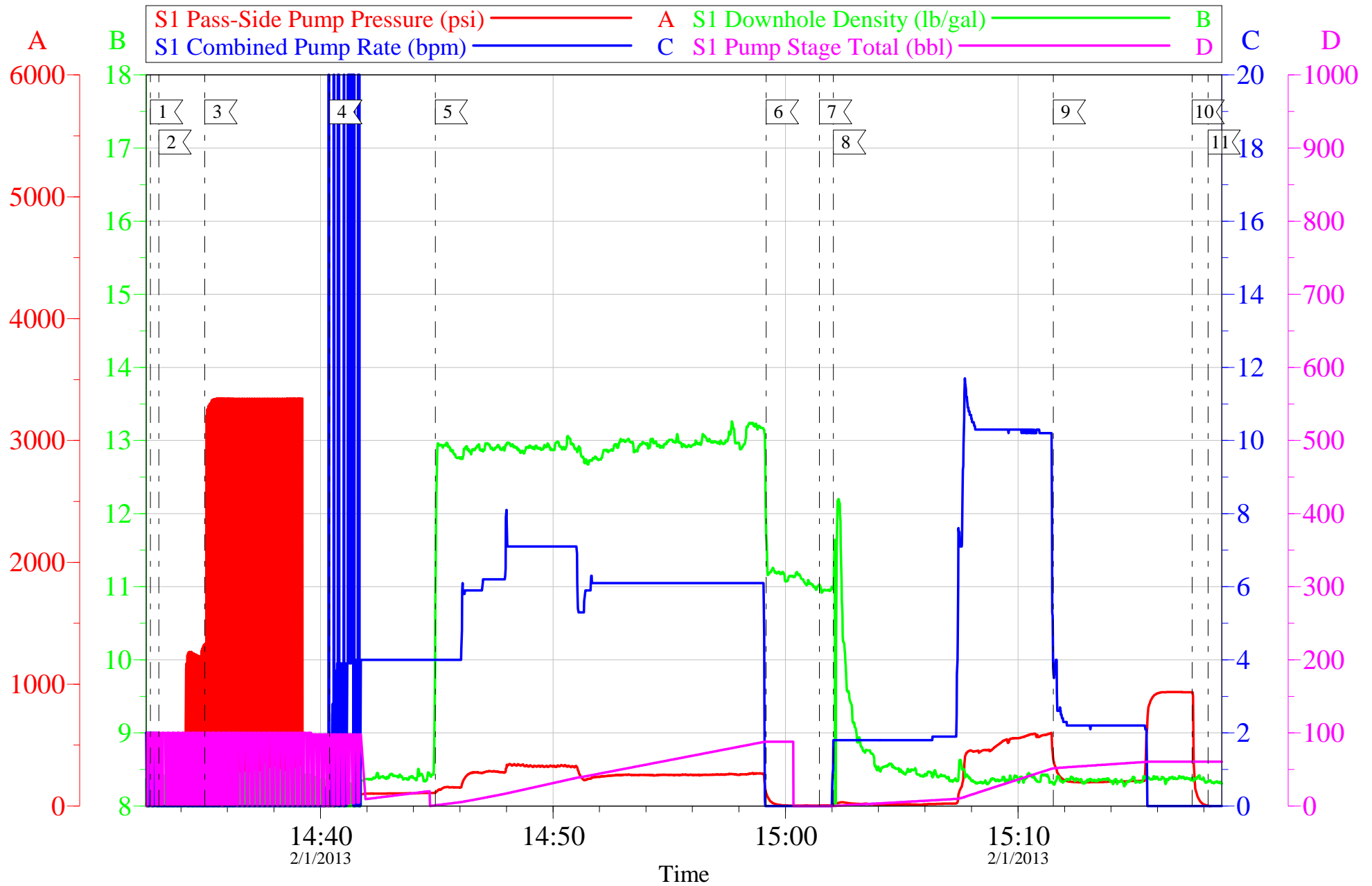
Job Date: 01-Feb-2013  
 Job Type: SURFACE  
 Cement Supervisor: C.SMITH

Sales Order #: 900162886  
 ADC Used: YES  
 Elite #9: D.SINCLAIR

OptiCem v6.4.10  
 01-Feb-13 15:29

# WPX - PA 13-4

9.625" SURFACE



Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS  
 Well Description: PA 13-4  
 Company Rep: WC.WILSON

Job Date: 01-Feb-2013  
 Job Type: SURFACE  
 Cement Supervisor: C.SMITH

Sales Order #: 900162886  
 ADC Used: YES  
 Elite #9: D.SINCLAIR

OptiCem v6.4.10  
 01-Feb-13 15:30

|  |  |  |
|--|--|--|
| <b>Sales Order #:</b><br>900162886                     | <b>Line Item:</b><br>10                          | <b>Survey Conducted Date:</b><br>2/1/2013                  |
| <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>WC WILSON           |  | <b>API / UWI: (leave blank if unknown)</b><br>05-045-20064 |
| <b>Well Name:</b><br>PA                                |  | <b>Well Number:</b><br>13-4                                |
| <b>Well Type:</b><br>Development Well                  | <b>Well Country:</b><br>United States of America |  |
| <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                              | 2/1/2013                    |
| Survey Interviewer      | The survey interviewer is the person who initiated the survey. | CHRISTOPHER SMITH (HB20137) |
| Customer Participation  | Did the customer participate in this survey? (Y/N)             | Yes                         |
| Customer Representative | Enter the Customer representative name                         | WC WILSON                   |
| 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   | GOOD JOB. THANKS            |

CUSTOMER SIGNATURE



|  |  |  |
|--|--|--|
| <b>Sales Order #:</b><br>900162886                     | <b>Line Item:</b><br>10                          | <b>Survey Conducted Date:</b><br>2/1/2013                  |
| <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>WC WILSON           |  | <b>API / UWI: (leave blank if unknown)</b><br>05-045-20064 |
| <b>Well Name:</b><br>PA                                |  | <b>Well Number:</b><br>13-4                                |
| <b>Well Type:</b><br>Development Well                  | <b>Well Country:</b><br>United States of America |  |
| <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><br>The date the survey was conducted | 2/1/2013 |

| 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.   | 2                       |
| <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.  | 1                       |
| <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  | 7                       |
| <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>900162886                     | <b>Line Item:</b><br>10                          | <b>Survey Conducted Date:</b><br>2/1/2013                  |
| <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>WC WILSON           |  | <b>API / UWI: (leave blank if unknown)</b><br>05-045-20064 |
| <b>Well Name:</b><br>PA                                |  | <b>Well Number:</b><br>13-4                                |
| <b>Well Type:</b><br>Development Well                  | <b>Well Country:</b><br>United States of America |  |
| <b>H2S Present:</b><br>No                              | <b>Well State:</b><br>Colorado                   | <b>Well County:</b><br>Garfield                            |

|  |     |
|--|-----|
| 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       | 95  |
| <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 | 94  |
| <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   |