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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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PA 311-27  
Parachute  
Garfield County , Colorado

**Cement Surface Casing**  
25-Aug-2013

**Post Job Report**

*The Road to Excellence Starts with Safety*

|   |                              |  |                                 |
|---|------------------------------|--|---------------------------------|
| <b>Sold To #:</b> 300721                            | <b>Ship To #:</b> 3096385    | <b>Quote #:</b>                          | <b>Sales Order #:</b> 900684487 |
| <b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS |                              | <b>Customer Rep:</b> Towers, Ron         |                                 |
| <b>Well Name:</b> PA                                |                              | <b>Well #:</b> 311-27                    | <b>API/UWI #:</b>               |
| <b>Field:</b> Parachute                             | <b>City (SAP):</b> PARACHUTE | <b>County/Parish:</b> Garfield           | <b>State:</b> Colorado          |
| <b>Contractor:</b> Nabors                           |                              | <b>Rig/Platform Name/Num:</b> Nabors 573 |                                 |
| <b>Job Purpose:</b> Cement Surface Casing           |                              |  |                                 |
| <b>Well Type:</b> Development Well                  |                              | <b>Job Type:</b> Cement Surface Casing   |                                 |
| <b>Sales Person:</b> MAYO, MARK                     |                              | <b>Srvc Supervisor:</b> ARNOLD, EDWARD   | <b>MBU ID Emp #:</b> 439784     |

**Job Personnel**

| HES Emp Name           | Exp Hrs | Emp #  | HES Emp Name       | Exp Hrs | Emp #  | HES Emp Name                | Exp Hrs | Emp #  |
|------------------------|---------|--------|--------------------|---------|--------|-----------------------------|---------|--------|
| ARNOLD, EDWARD<br>John | 8       | 439784 | SALAZAR, PAUL Omar | 8       | 445614 | SMITH,<br>CHRISTOPHER Scott | 8       | 452619 |

**Equipment**

| HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10867425   | 60 mile        | 10872429   | 60 mile        | 10897891   | 60 mile        | 10951249   | 60 mile        |
| 11808847   | 60 mile        |            |                |            |                |            |                |

**Job Hours**

| Date       | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|------------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 2013-08-25 | 8                 | 3               |      |                   |                 |      |                   |                 |

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

**Job**

**Job Times**

| Formation Name         | Job               |               |              | Date            | Time            | Time Zone       |       |     |
|------------------------|-------------------|---------------|--------------|-----------------|-----------------|-----------------|-------|-----|
| Formation Depth (MD)   | Top               | Bottom        | Called Out   | 24 - Aug - 2013 | 23:00           | MST             |       |     |
| Form Type              | BHST              |               |              | On Location     | 25 - Aug - 2013 | 03:00           | MST   |     |
| Job depth MD           | 2842. ft          | Job Depth TVD | 2842. ft     | Job Started     | 25 - Aug - 2013 | 08:21           | MST   |     |
| Water Depth            | Wk Ht Above Floor |               |              | 3. ft           | Job Completed   | 25 - Aug - 2013 | 09:55 | MST |
| Perforation Depth (MD) | From              | To            | Departed Loc | 25 - Aug - 2013 | 11:00           | 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 |
|-------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
|             |            |                   |         |       |               |        |       |           |              |            |               |

**Tools and Accessories**

| Type         | Size | Qty | Make | Depth | Type        | Size | Qty | Make | Depth | Type           | Size   | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|--------|-----|------|
| Guide Shoe   |      |     |      |       | Packer      |      |     |      |       | Top Plug       | 9 5/8" | 1   | HES  |
| Float Shoe   |      |     |      |       | Bridge Plug |      |     |      |       | Bottom Plug    |        |     |      |
| Float Collar |      |     |      |       | Retainer    |      |     |      |       | SSR plug set   |        |     |      |
| Insert Float |      |     |      |       |             |      |     |      |       | Plug Container | 9 5/8" | 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 uom | Yield uom | Mix Fluid uom | Rate uom | Total Mix Fluid uom |
|---------|--------------------|------------|-------|---------|--------------------|-----------|---------------|----------|---------------------|
| 1       | Fresh Water Spacer |            | 40.00 | bbl     | 8.33               | .0        | .0            | 4        |                     |

| 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 |
| 2  | VersaCem GJ1 Lead Cement | VARICEM (TM) CEMENT (452009)  | 475.0  | sacks                             | 12.3                   | 2.38                      | 13.75            | 8            | 13.75                  |
|  | 13.75 Gal                | FRESH WATER                   |        |                                   |                        |                           |                  |              |                        |
| 3  | VersaCemGJ1 Tail Cement  | VERSACEM (TM) SYSTEM (452010) | 160.0  | sacks                             | 12.8                   | 2.11                      | 11.75            | 8            | 11.75                  |
|  | 11.746 Gal               | FRESH WATER                   |        |                                   |                        |                           |                  |              |                        |
| 4  | Displacement Fluid       |                               | 218.00 | bbl                               | 8.34                   | .0                        | .0               | 10.0         |                        |
| Calculated Values                        |                          | Pressures                     |        | Volumes                           |                        |                           |                  |              |                        |
| Displacement                             | 218.7                    | Shut In: Instant              |        | Lost Returns                      |                        | Cement Slurry             | 261.4            | Pad          |                        |
| Top Of Cement                            | SURFACE                  | 5 Min                         |        | Cement Returns                    | 30                     | Actual Displacement       | 218.7            | Treatment    |                        |
| Frac Gradient                            |                          | 15 Min                        |        | Spacers                           | 40                     | Load and Breakdown        |                  | Total Job    | 520.1                  |
| Rates                                    |                          |                               |        |                                   |                        |                           |                  |              |                        |
| Circulating                              | RIG                      | Mixing                        | 8      | Displacement                      | 10                     | Avg. Job                  | 9                |              |                        |
| Cement Left In Pipe                      | Amount                   | 42. 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> 3096385    | <b>Quote #:</b>                          | <b>Sales Order #:</b> 900684487 |
| <b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS |                              | <b>Customer Rep:</b> Towers, Ron         |                                 |
| <b>Well Name:</b> PA                                |                              | <b>Well #:</b> 311-27                    | <b>API/UWI #:</b>               |
| <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>   |                              | <b>Long:</b>                             |                                 |
| <b>Contractor:</b> Nabors                           |                              | <b>Rig/Platform Name/Num:</b> Nabors 573 |                                 |
| <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>Srvc Supervisor:</b> ARNOLD, EDWARD   | <b>MBU ID Emp #:</b> 439784     |

| Activity Description                  | Date/Time           | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments   |
|---------------------------------------|---------------------|-------|--------------|------------|-------|---------------|--------|--|
|                                       |                     |       |              | Stage      | Total | Tubing        | Casing |  |
| Call Out                              | 08/24/2013<br>23:00 |       |              |            |       |               |        |  |
| Pre-Convoy Safety Meeting             | 08/25/2013<br>00:45 |       |              |            |       |               |        | Including entire cement crew.  |
| Crew Leave Yard                       | 08/25/2013<br>01:00 |       |              |            |       |               |        |  |
| Arrive At Loc                         | 08/25/2013<br>02:45 |       |              |            |       |               |        | Rig still Running casing.  |
| Assessment Of Location Safety Meeting | 08/25/2013<br>06:30 |       |              |            |       |               |        | Water; PH 7.5; KCL 250; So4 <200; Fe 0; Calcuim 120; Chlorides 0; Temp 75; TDS 340.  |
| Pre-Rig Up Safety Meeting             | 08/25/2013<br>06:45 |       |              |            |       |               |        | Including entire cement crew.  |
| Rig-Up Equipment                      | 08/25/2013<br>07:00 |       |              |            |       |               |        | 1 Elite # 2; 1 660 bulk truck; 1 field storage silo; 1 hard line to floor; 1 line to upright; 1 line to rig tank. 9.625" compact head. |
| Rig-Up Completed                      | 08/25/2013<br>08:00 |       |              |            |       |               |        |  |
| Pre-Job Safety Meeting                | 08/25/2013<br>08:10 |       |              |            |       |               |        | Including everyone on location.  |
| Start Job                             | 08/25/2013<br>08:21 |       |              |            |       |               |        | TD 2842; TP 2822; SJ 42; OH 13 1/2"; Casing 9.625" 32.3# H-40; Mud 10 ppg.   |
| Pump Water                            | 08/25/2013<br>08:22 |       | 2            | 2          |       |               | 120.0  | Fill lines with fresh water.   |
| Test Lines                            | 08/25/2013<br>08:24 |       |              |            |       |               | 3280.0 | Good pressure test, no leaks.  |
| Pump Spacer 1                         | 08/25/2013<br>08:29 |       | 4            | 40         |       |               | 225.0  | 40 BBL fresh water spacer.   |
| Activity Description                  | Date/Time           | Cht   | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments   |

Sold To # : 300721

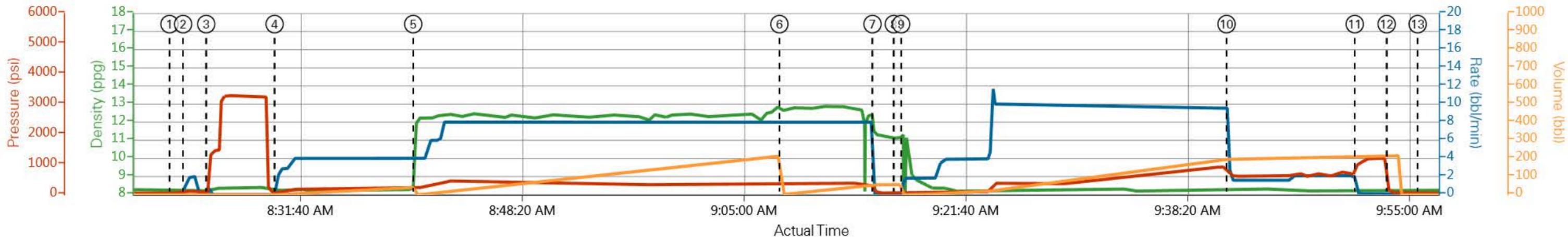
Ship To # :3096385

Quote # :

Sales Order # : 900684487

|                             |                     | # | Stage | Total | Tubing | Casing |  |
|-----------------------------|---------------------|---|-------|-------|--------|--------|--|
| Pump Lead Cement            | 08/25/2013<br>08:40 |   | 8     | 201.3 |        | 420.0  | 475 sks Lead Cement, 12.3 ppg, 2.38 cf3, 13.5 gal/sk.              |
| Pump Tail Cement            | 08/25/2013<br>09:07 |   | 8     | 60.1  |        | 380.0  | 160 sks Tail Cement, 12.8 ppg, 2.11 cf3, 11.75 gal/sk.             |
| Shutdown                    | 08/25/2013<br>09:14 |   |       |       |        |        |  |
| Drop Plug                   | 08/25/2013<br>09:16 |   |       |       |        |        | Plug left container.   |
| Pump Displacement           | 08/25/2013<br>09:16 |   | 10    | 198.7 |        | 954.0  | Fresh water displacement.  |
| Slow Rate                   | 08/25/2013<br>09:41 |   | 2     | 20    |        | 690.0  | Slow rate last 20 BBL's of displacement prior to bumping the plug. |
| Bump Plug                   | 08/25/2013<br>09:50 |   |       |       | 218.7  | 1206.0 | Bumped plug, took 500 PSI over.                                    |
| Check Floats                | 08/25/2013<br>09:53 |   |       |       |        |        | Floats held, 1 BBL back. 30 BBL.'s good cement to surface.         |
| End Job                     | 08/25/2013<br>09:55 |   |       |       |        |        |  |
| Pre-Rig Down Safety Meeting | 08/25/2013<br>10:00 |   |       |       |        |        | Including entire cement crew.                                      |
| Rig-Down Equipment          | 08/25/2013<br>10:05 |   |       |       |        |        |  |
| Rig-Down Completed          | 08/25/2013<br>10:45 |   |       |       |        |        |  |
| Pre-Convoy Safety Meeting   | 08/25/2013<br>10:50 |   |       |       |        |        | Including entire cement crew.                                      |
| Crew Leave Location         | 08/25/2013<br>11:00 |   |       |       |        |        | Crew leave location for Service Center or another location.        |
| Other                       | 08/25/2013<br>11:00 |   |       |       |        |        | Thank You for using Halliburton. Ed Arnold and Crew.               |

# WPX - PA 311-27 - 9 5/8" SURFACE



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

① Prime Pumps   ② Fill Lines   ③ Test Lines   ④ Pump Spacer 1   ⑤ Pump Lead Cement   ⑥ Pump Tail Cement   ⑦ Shutdown   ⑧ Drop Top Plug   ⑨ Pump Displacement   ⑩ Slow Rate   ⑪ Bump Plug   ⑫ Check Floats   ⑬ End Job

▼ **Halliburton** | iCem Service®

Created: 2013-08-25 07:38:28 , Version: 1.4.96

[Edit](#)

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 8/25/2013 7:42:10 AM

Well: PA 311-27

Representative: HARRY SAMPSON

Sales Order #: 900684487

ELITE #2: ED ARNOLD / CHRIS SMITH

|  |  |   |
|--|--|---|
| <b>Sales Order #:</b><br>900684487                     | <b>Line Item:</b><br>10                          | <b>Survey Conducted Date:</b><br>8/25/2013                        |
| <b>Customer:</b><br>WPX ENERGY ROCKY MOUNTAIN LLC-EBUS |  | <b>Job Type (BOM):</b><br>CMT SURFACE CASING BOM                  |
| <b>Customer Representative:</b>                        |  | <b>API / UWI: (leave blank if unknown)</b><br>AFEYCMGTUJKVAMIVAAA |
| <b>Well Name:</b><br>PA                                |  | <b>Well Number:</b><br>311-27                                     |
| <b>Well Type:</b><br>Development Well                  | <b>Well Country:</b><br>United States of America |   |
| <b>H2S Present:</b>                                    | <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                              | 8/25/2013               |
| Survey Interviewer      | The survey interviewer is the person who initiated the survey. | EDWARD ARNOLD (HX46731) |
| Customer Participation  | Did the customer participate in this survey? (Y/N)             | No                      |
| Customer Representative | Enter the Customer representative name                         |                         |
| HSE                     | Was our HSE performance satisfactory? Circle Y or N            |                         |
| Equipment               | Were you satisfied with our Equipment? Circle Y or N           |                         |
| Personnel               | Were you satisfied with our people? Circle Y or N              |                         |
| Customer Comment        | Customer's Comment   |                         |

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

|  |  |   |
|--|--|---|
| <b>Sales Order #:</b><br>900684487                     | <b>Line Item:</b><br>10                          | <b>Survey Conducted Date:</b><br>8/25/2013                        |
| <b>Customer:</b><br>WPX ENERGY ROCKY MOUNTAIN LLC-EBUS |  | <b>Job Type (BOM):</b><br>CMT SURFACE CASING BOM                  |
| <b>Customer Representative:</b>                        |  | <b>API / UWI: (leave blank if unknown)</b><br>AFEYCMGTUJKVAMIVAAA |
| <b>Well Name:</b><br>PA                                |  | <b>Well Number:</b><br>311-27                                     |
| <b>Well Type:</b><br>Development Well                  | <b>Well Country:</b><br>United States of America |   |
| <b>H2S Present:</b>                                    | <b>Well State:</b><br>Colorado                   | <b>Well County:</b><br>Garfield                                   |

### KEY PERFORMANCE INDICATORS

| General                           |           |
|-----------------------------------|-----------|
| <b>Survey Conducted Date</b>      | 8/25/2013 |
| 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>  | Deviated                |
| 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>  | 1.5                     |
| 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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| <b>Customer Representative:</b>                        |  | <b>API / UWI: (leave blank if unknown)</b><br>AFEYCMGTUJKVAMIVAAA |
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| <b>Well Type:</b><br>Development Well                  | <b>Well Country:</b><br>United States of America |   |
| <b>H2S Present:</b>                                    | <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 | 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   |