

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 324-16

Nabors/573

Post Job Summary

Cement Surface Casing

Date Prepared: 04/20/2014

Submitted by: Grand Junction Cement Engineering

The Road to Excellence Starts with Safety

| | | | |
|--|--------------------|-----------------------------------|---------------------------|
| Sold To #: 300721 | Ship To #: 3123601 | Quote #: | Sales Order #: 0901260681 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | | Customer Rep: BEAUDE OAKS | |
| Well Name: FEDERAL | Well #: PA 324-16 | API/UWI #: 05-045-22035-00 | |
| Field: PARACHUTE | City (SAP): PAR | County/Parish: GARFIELD | State: COLORADO |
| Legal Description: SE NW-21-6S-95W-2610FNL-1403FWL | | | |
| Contractor: NABORS DRLG | | Rig/Platform Name/Num: NABORS 573 | |
| Job BOM: 7521 | | | |
| Well Type: DIRECTIONAL GAS | | | |
| Sales Person: HALAMERICA\H105431 | | Srcv Supervisor: ERIC CARTER | |
| Job | | | |

| | | | |
|------------------------|-------------------------|---|-----------------|
| Formation Name | | | |
| Formation Depth (MD) | Top | 0 | Bottom 1681 FT. |
| Form Type | BHST | | |
| Job depth MD | 1681ft | | |
| 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 |
|-------------------|------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| Casing | | 9.625 | 9.001 | 32.3 | | H-40 | 0 | 1681 | | 0 |
| Open Hole Section | | | 13.5 | | | | 0 | 1681 | 0 | 0 |

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 | 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/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal | |
| 1 | Fresh Water | Fresh Water | 20 | bbl | 8.34 | | | 4 | | |
| 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 | Lead Cement | VARICEM (TM) CEMENT | 260 | sack | 12.3 | 2.38 | | 8 | 13.75 | |
| 13.70 Gal | | | FRESH WATER | | | | | | | |

| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/mi n | Total Mix Fluid Gal |
|----------------------------|--------------|---------------------|---------|---------|---------------------------|--------------------------------|------------------|---------------------|---------------------------|
| 3 | Tail Cement | VARICEM (TM) CEMENT | 185 | sack | 12.8 | 2.11 | | 8 | 11.75 |
| 11.71 Gal | | FRESH WATER | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/mi n | Total Mix Fluid Gal |
| 4 | Displacement | Displacement | 128.7 | bbl | 8.34 | | | 10 | |
| Cement Left In Pipe | | Amount | 46.2 ft | | Reason | | | Shoe Joint | |
| Comment | | | | | | | | | |

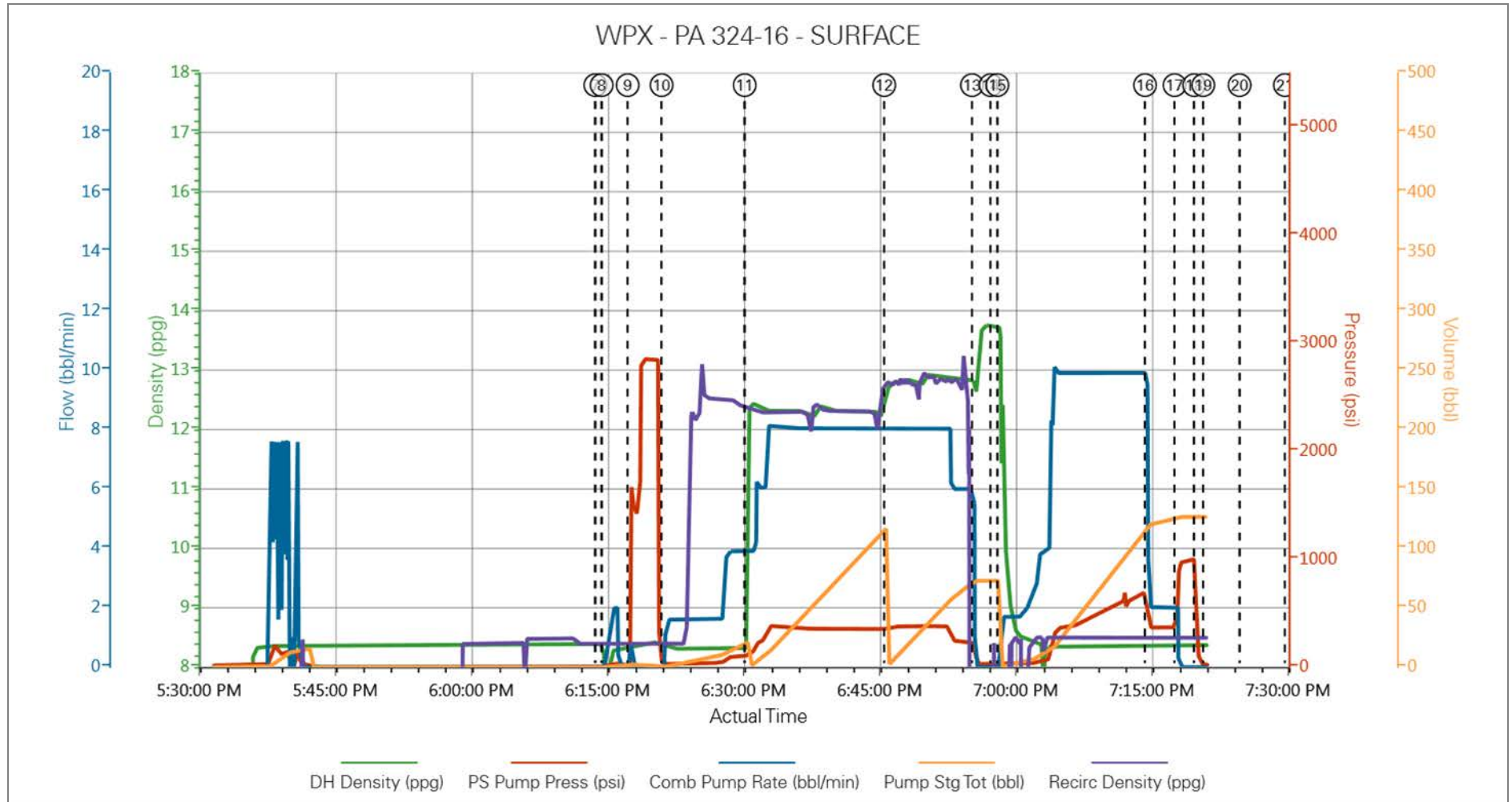
3.1 Job Event Log

| Type | Seq No. | Graph Label | Date | Time | Source | DH Density (ppg) | PS Pump Press (psi) | Comb Pump Rate (bbl/min) | Pump Stg Tot (bbl) | Comment |
|-------|---------|---|----------|----------|--------|------------------|---------------------|--------------------------|--------------------|--|
| Event | 1 | Arrive at Location from Other Job or Site | 4/9/2014 | 12:00:00 | USER | | | | | RIG RUNNING CASING |
| Event | 2 | Assessment Of Location Safety Meeting | 4/9/2014 | 15:00:00 | USER | | | | | ATTENDED BY ALL HES CREW |
| Event | 3 | Other | 4/9/2014 | 15:10:00 | USER | | | | | SPOT EQUIPMENT |
| Event | 4 | Pre-Rig Up Safety Meeting | 4/9/2014 | 15:20:00 | USER | | | | | ATTENDED BY ALL HES CREW |
| Event | 5 | Rig-Up Equipment | 4/9/2014 | 15:30:00 | USER | | | | | |
| Event | 6 | Pre-Job Safety Meeting | 4/9/2014 | 15:31:00 | USER | | | | | ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP |
| Event | 7 | Start Job | 4/9/2014 | 18:14:00 | USER | | | | | TP 1681', TD 1691', SJ 46.2', MW 9.6 PPG, CASING 9.625", 32.3#, H-40, HOLE 13.5", RIG CIRCULATED FOR 1.5 HR'S PRIOR TO JOB |
| Event | 8 | Other | 4/9/2014 | 18:14:41 | USER | 8.34 | 40 | 2 | 2 | FILL LINES |
| Event | 9 | Test Lines | 4/9/2014 | 18:17:33 | USER | | | | | PRESSURED UP TO 2860 PSI, PRESSURE HELD |
| Event | 10 | Pump Spacer | 4/9/2014 | 18:21:18 | USER | 8.34 | 100 | 4 | 20 | FRESH WATER |
| Event | 11 | Pump Lead Cement | 4/9/2014 | 18:30:27 | USER | 12.3 | 385 | 8 | 110.2 | 260 SKS VARICEM MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GL/SK |
| Event | 12 | Pump Tail Cement | 4/9/2014 | 18:45:50 | USER | 12.8 | 375 | 8 | 69.5 | 185 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK |
| Event | 13 | Shutdown | 4/9/2014 | 18:55:30 | USER | | | | | |
| Event | 14 | Drop Top Plug | 4/9/2014 | 18:57:33 | USER | | | | | PLUG LAUNCHED |
| Event | 15 | Pump Displacement | 4/9/2014 | 18:58:18 | USER | 8.34 | 680 | 10 | 118.7 | FRESH WATER |
| Event | 16 | Slow Rate | 4/9/2014 | 19:14:34 | USER | 8.34 | 390 | 2 | 10 | |
| Event | 17 | Bump Plug | 4/9/2014 | 19:17:50 | USER | | 1000 | | | PLUG LANDED |
| Event | 18 | Check Floats | 4/9/2014 | 19:19:59 | USER | | | | | FLOATS HELD |
| Event | 19 | End Job | 4/9/2014 | 19:21:00 | USER | | | | | GOOD CIRCULATIN THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, 18 BBLs CEMENT TO SURFACE |

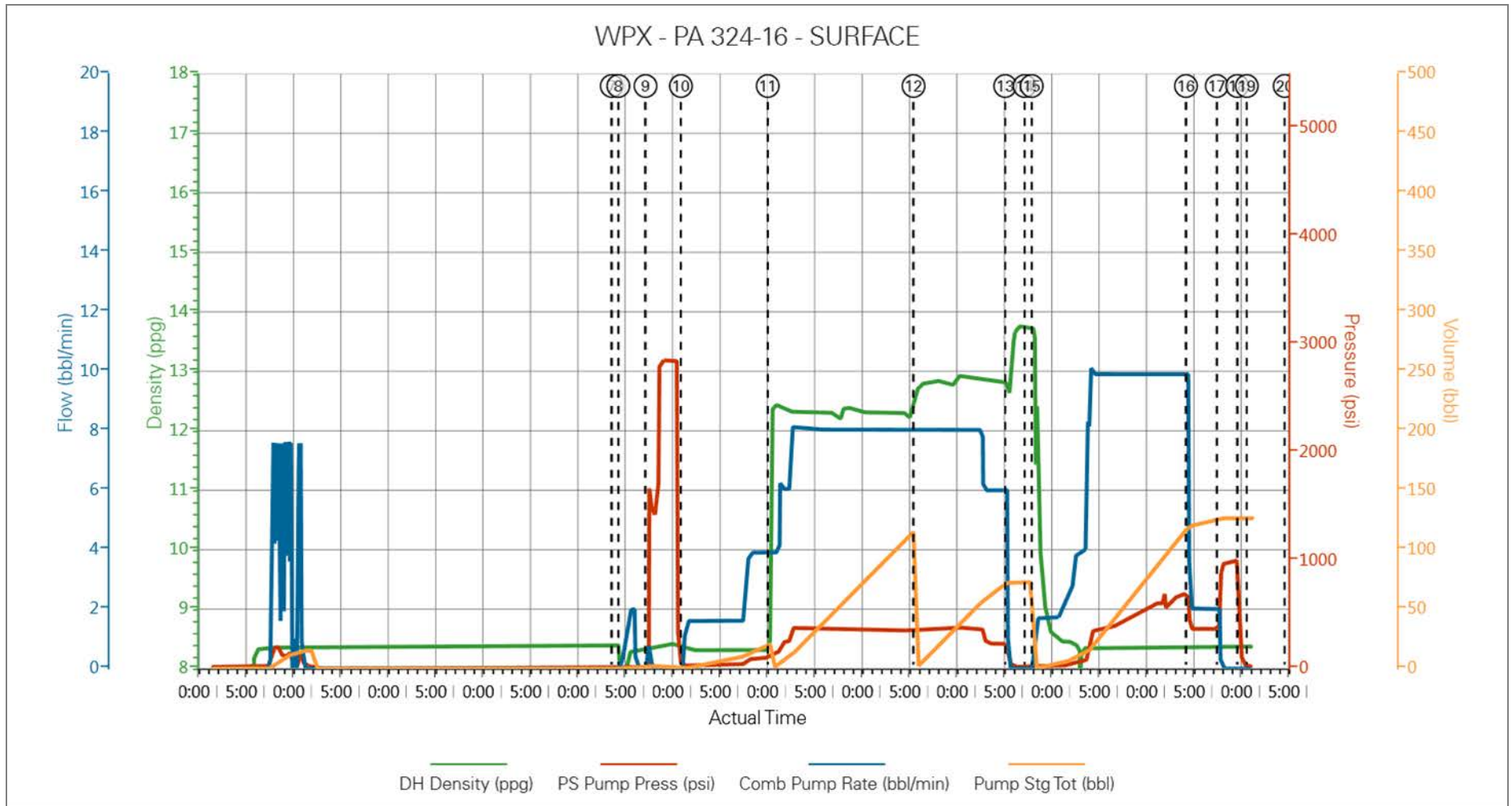
| | | | | | | |
|-------|----|--|----------|----------|------|--|
| Event | 20 | Post-Job Safety Meeting (Pre Rig-Down) | 4/9/2014 | 19:25:00 | USER | ATTENDED BY ALL HES CREW |
| Event | 21 | Rig-Down Equipment | 4/9/2014 | 19:30:00 | USER | |
| Event | 22 | Depart Location Safety Meeting | 4/9/2014 | 20:20:00 | USER | ATTENDED BY ALL HES CREW |
| Event | 23 | Crew Leave Location | 4/9/2014 | 20:30:00 | USER | THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW |

4.0 Custom Graphs

4.1 Custom Graph



4.2 Custom Graph



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: ERIC CARTER
Attention: J.Trout
Lease: NABORS 573
Well #: PA 324-16

Date: 4/9/2014
Date Rec.: 4/9/2014
S.O.#: 901260681
Job Type: SURFACE

| | | |
|-----------------------------|--------------|-----------------------|
| Specific Gravity | <i>MAX</i> | <i>1</i> |
| pH | <i>8</i> | <i>7</i> |
| Potassium (K) | <i>5000</i> | <i>400</i> Mg / L |
| Hardness | <i>500</i> | <i>250</i> Mg / L |
| Iron (FE2) | <i>300</i> | <i>0</i> Mg / L |
| Chlorides (Cl) | <i>3000</i> | <i>500</i> Mg / L |
| Sulfates (SO ₄) | <i>1500</i> | <i><200</i> Mg / L |
| Temp | <i>40-80</i> | <i>58</i> Deg |
| Total Dissolved Solids | | <i>430</i> Mg / L |

Respectfully: ERIC CARTER

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use.

| | | |
|--|--------------------------------|---|
| Sales Order #: 0901260681 | Line Item: 10 | Survey Conducted Date: 4/9/2014 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: BEAUDE OAKS | | API / UWI: (leave blank if unknown) 05-045-22035-00 |
| Well Name: FEDERAL | | Well Number: 0080125679 |
| Well Type: DIRECTIONAL GAS | Well Country: USA | |
| H2S Present: No | Well State: COLORADO | Well County: 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 | 4/9/2014 |
| 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 | BEAUDE OAKS |
| 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 | |

| |
|---------------------------|
| CUSTOMER SIGNATURE |
|---------------------------|

| | | |
|--|--------------------------------|---|
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KEY PERFORMANCE INDICATORS

| General | |
|-----------------------------------|----------|
| Survey Conducted Date | 4/9/2014 |
| The date the survey was conducted | |

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

| | | |
|--|--------------------------------|---|
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| Well Name: FEDERAL | | Well Number: 0080125679 |
| Well Type: DIRECTIONAL GAS | Well Country: USA | |
| H2S Present: No | Well State: COLORADO | Well County: GARFIELD |

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