

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

NER 423-32

Nabors 576

Post Job Summary

Cement Surface Casing

Date Prepared: 09/14/2014

Job Date: 09/07/2014

Submitted by: Kory Hugentobler- Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

| | | | |
|--|-----------------------------------|----------------------------|---------------------------|
| Sold To #: 300721 | Ship To #: 3123458 | Quote #: | Sales Order #: 0901650320 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | Customer Rep: Al Hartl | | |
| Well Name: FEDERAL | Well #: NER 423-32 | API/UWI #: 05-045-21789-00 | |
| Field: RULISON | City (SAP): RIFLE | County/Parish: GARFIELD | State: COLORADO |
| Legal Description: 5-7S-93W-110FNL-2581FWL | | | |
| Contractor: NABORS DRLG | Rig/Platform Name/Num: NABORS 576 | | |
| Job BOM: 7521 | | | |
| Well Type: DIRECTIONAL GAS | | | |
| Sales Person: HALAMERICA\HX23209 | Srv Supervisor: Brandon Reeves | | |
| Job | | | |

| | | | |
|------------------------|--------|--|-------------------|
| Formation Name | | | |
| Formation Depth (MD) | Top | | Bottom |
| Form Type | | | BHST |
| Job depth MD | 1177ft | | 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 |
| Casing | | 9.625 | 9.001 | 32.3 | | | 0 | 30 | 0 | 0 |
| Casing | | 9.625 | 9.001 | 32.3 | 8 RD | H-40 | 0 | 1177 | 0 | 1177 |
| Open Hole Section | | | 13.5 | | | | 0 | 1190 | 0 | 1190 |

| Tools and Accessories | | | | | | | | | |
|-----------------------|---------|-----|------|----------|--|----------------|---------|-----|------|
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make |
| Guide Shoe | 9.625 | | | 1177 | | Top Plug | 9.625 | 1 | HES |
| Float Shoe | 9.625 | | | | | Bottom Plug | 9.625 | | HES |
| Float Collar | 9.625 | | | | | SSR plug set | 9.625 | | HES |
| Insert Float | 9.625 | | | | | Plug Container | 9.625 | 1 | HES |
| Stage Tool | 9.625 | | | | | Centralizers | 9.625 | | HES |

| Miscellaneous Materials | | | | | | | | | | | |
|-------------------------|--|------|--|------------|--|------|--|-----------|--|------|------|
| Gelling Agt | | Conc | | Surfactant | | Conc | | Acid Type | | Qty | Conc |
| Treatment Fld | | Conc | | Inhibitor | | Conc | | Sand Type | | Size | Qty |

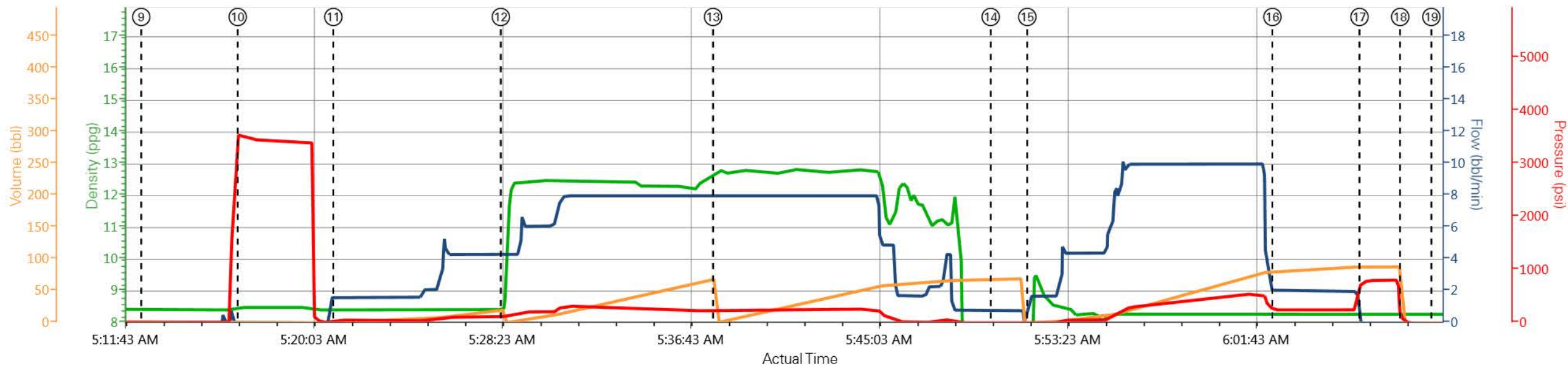
| Fluid Data | | | | | | | | | | |
|-----------------|-------------|---------------------|-----|---------|------------------------|----------------|---------------|--------------|---------------------|--|
| Stage/Plug #: 1 | | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal | |
| 1 | Fresh Water | Fresh Water | 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 | |
| 2 | VariCem GJ1 | VARICEM (TM) CEMENT | 140 | sack | 12.3 | 2.38 | | 8 | 13.77 | |

| 0.25 lbm | | POLY-E-FLAKE (101216940) | | | | | | | |
|---------------------|--------------------------|--------------------------|-------|---------|---------------------------|-------------------|------------------|-----------------|---------------------------|
| 13.70 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 | VariCem GJ1 | VARICEM (TM) CEMENT | 150 | sack | 12.8 | 2.11 | | 8 | 11.77 |
| 0.25 lbm | | POLY-E-FLAKE (101216940) | | | | | | | |
| 11.71 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 | Fresh Water Displacement | Fresh Water Displacement | 89 | bbl | 8.34 | | | 10 | |
| | | | | | | | | | |
| Cement Left In Pipe | | Amount | 44 ft | | Reason | | Shoe Joint | | |
| Comment | | | | | | | | | |

1.1 Job Event Log

| Type | Seq. No. | Graph Label | Date | Time | Source | DH Density (ppg) | Comb Pump Rate (bbl/min) | Pump Stg Tot (bbl) | DS Pump Press (psi) | Comment |
|-------|----------|--|----------|----------|--------|------------------|--------------------------|--------------------|---------------------|--|
| Event | 1 | Call Out | 9/6/2014 | 19:15:12 | USER | | | | | |
| Event | 2 | Depart from Service Center or Other Site | 9/6/2014 | 21:00:00 | USER | | | | | |
| Event | 3 | Arrive at Location from Service Center | 9/6/2014 | 23:00:00 | USER | | | | | REQUESTED ON LOCATION TIME WAS 01:00 09/07/2014 |
| Event | 4 | Assessment Of Location Safety Meeting | 9/7/2014 | 02:30:11 | USER | | | | | SAFETY MEETING WITH CEMENT CREW. |
| Event | 5 | Spot Equipment | 9/7/2014 | 03:15:34 | USER | | | | | |
| Event | 6 | Pre-Rig Up Safety Meeting | 9/7/2014 | 03:25:24 | USER | | | | | SAFETY MEETING WITH CEMENT CREW. |
| Event | 7 | Rig-Up Equipment | 9/7/2014 | 03:35:19 | USER | | | | | |
| Event | 8 | Pre-Job Safety Meeting | 9/7/2014 | 04:45:12 | USER | | | | | SAFETY MEETING WITH EVERYONE ON LOCATION. |
| Event | 9 | Start Job | 9/7/2014 | 05:12:32 | COM5 | 8.42 | 0.00 | 0.0 | 11.00 | TD-1190' TP-1177' SJ-44.03' MW-10.2 PPG. HOLE 13 1/2" CASING-9 5/8" 32.3 PPF. H-40 |
| Event | 10 | Test Lines | 9/7/2014 | 05:16:47 | COM5 | 8.49 | 0.00 | 2.1 | 3445.00 | TESTED LINES TO 3445 PSI. |
| Event | 11 | Pump Water Spacer | 9/7/2014 | 05:21:01 | COM5 | 8.44 | 4.00 | 20.0 | 120.00 | FRESH WATER SPACER |
| Event | 12 | Pump Lead Cement | 9/7/2014 | 05:28:25 | COM5 | 12.32 | 8.00 | 59.3 | 310.00 | 140 SKS. @ 12.3 PPG. 2.38 YIELD 13.77 GAL/SK. |
| Event | 13 | Pump Tail Cement | 9/7/2014 | 05:37:48 | COM5 | 12.81 | 8.00 | 56.4 | 260.00 | 150 SKS. @ 12.8 PPG. 2.11 YIELD 11.77 GAL/SK. |
| Event | 14 | Drop Top Plug | 9/7/2014 | 05:50:05 | USER | -0.04 | 0.00 | 0.0 | 2.00 | |
| Event | 15 | Pump Displacement | 9/7/2014 | 05:51:42 | COM5 | 8.34 | 10.00 | 0.0 | 550.00 | FRESH WATER DISPLACEMENT. |
| Event | 16 | Slow Rate | 9/7/2014 | 06:02:32 | COM5 | 8.28 | 2.00 | 79.0 | 240.00 | SLOW RATE TO LAND THE PLUG |
| Event | 17 | Bump Plug | 9/7/2014 | 06:06:23 | COM5 | 8.32 | 2.00 | 89.0 | 245.00 | PLUG LANDED AT 245 PSI. PRESSURED UP TO 800 PSI. |
| Event | 18 | Check Floats | 9/7/2014 | 06:08:11 | COM5 | | | | | FLOATS HELD. .5 BBL. OF FLOW BACK. |
| Event | 19 | End Job | 9/7/2014 | 06:09:34 | COM5 | | | | | THE WELL WAS CIRCULATED BEFORE STARTING THE JOB. GOOD CIRCULATION THROUGHOUT THE JOB. THE PIPE WAS NOT RECIPROCATED. CIRCULATED 25 BBL.S OF CEMENT TO SURFACE. |

WPX ENERGY - FEDERAL NER 423-32 - 9 5/8" SURFACE



▼ **HALLIBURTON** | iCem® Service

Created: 2014-09-06 23:48:48, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 9/7/2014

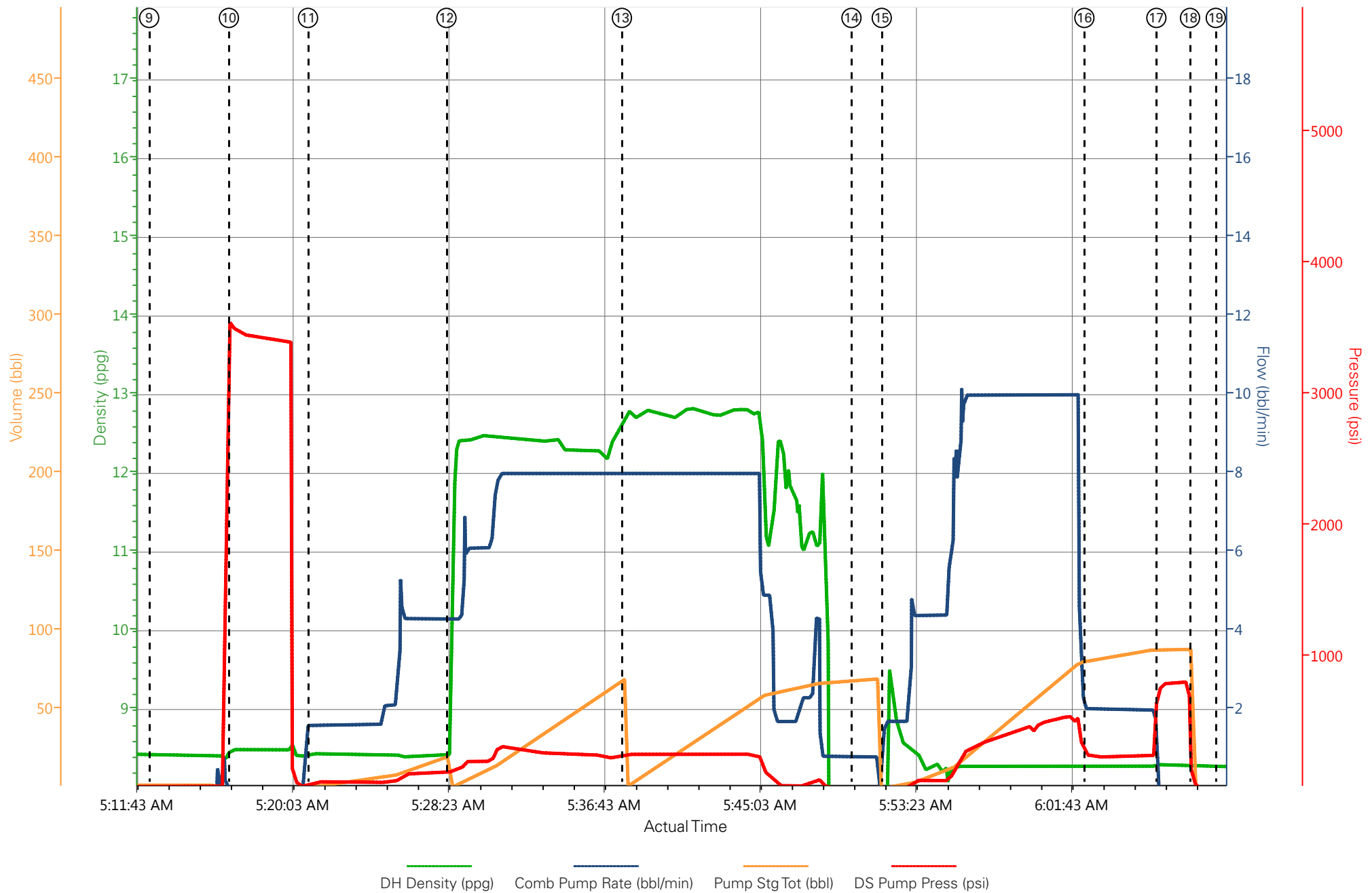
Well: FEDERAL NER 423-32

Representative: BRANDON REEVES

Sales Order #: 901650320

Elite / Operator: ELITE 7 / KEVIN BENNETT

WPX ENERGY - FEDERAL NER 423-32 - 9 5/8" SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX ENERGY

Submitted by: BRANDON REEVES

Attention: J. TROUT

Lease FEDERAL

Well # NER 423-32

Date: 9/7/2014

Date Rec.: 9/7/2014

S.O.# 901650320

Job Type: SURFACE

| | | |
|-----------------------------|--------------|-------------------------|
| Specific Gravity | <i>MAX</i> | 1 |
| pH | <i>8</i> | 7.1 |
| Potassium (K) | <i>5000</i> | 0 Mg / L |
| Calcium (Ca) | <i>500</i> | 100 Mg / L |
| Iron (FE2) | <i>300</i> | 3 Mg / L |
| Chlorides (Cl) | <i>3000</i> | 0 Mg / L |
| Sulfates (SO ₄) | <i>1500</i> | UNDER 200 Mg / L |
| Chlorine (Cl ₂) | | 0 Mg / L |
| Temp | <i>40-80</i> | 68 Deg |
| Total Dissolved Solids | | 310 Mg / L |

Respectfully: BRANDON REEVES

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

| | | |
|--|--------------------------------|---|
| Sales Order #: 0901650320 | Line Item: 10 | Survey Conducted Date: 9/7/2014 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: AL HARTL | | API / UWI: (leave blank if unknown) 05-045-21789-00 |
| Well Name: FEDERAL | | Well Number: 0080125505 |
| 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 | 9/7/2014 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | HBT9414 |
| Customer Participation | Did the customer participate in this survey? (Y/N) | Yes |
| Customer Representative | Enter the Customer representative name | AL HARTL |
| 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 The date the survey was conducted | 9/7/2014 |

| Cementing KPI Survey | |
|---|-------------------------|
| Type of Job Select the type of job. (Cementing or Non-Cementing) | 0 |
| Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation. | Vertical |
| Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format. | 2 |
| HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only. | No |
| Was the job purpose achieved? Was the job delivered correctly as per customer agreed design? | Yes |
| Pumping Hours Total number of hours pumping fluid on this job. Enter in decimal format. | 1 |
| Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On | Drilling Rig (Portable) |
| Number Of JSAs Performed Number Of Jsas Performed | 6 |
| Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job. | Yes |
| Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time. | 0 |
| Customer Non-Productive Rig Time (hrs) | 0 |

| | | |
|--|--------------------------------|---|
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| H2S Present: No | Well State: COLORADO | Well County: GARFIELD |

| | |
|--|-----|
| 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. | |
| Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment? Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment? | No |
| Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs? | Top |
| If a top plug was run, was the plug bumped? (Yes/No/N/A) If a top plug was run, was the plug bumped? (Yes/No/N/A) | Yes |
| If applicable, was Halliburton float equipment used? (Yes/No/N/A) If applicable, was Halliburton float equipment used? (Yes/No/N/A) | N/A |
| If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A) | Yes |
| 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 | 90 |
| 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 | 90 |
| If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A) | YES |
| 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 |