

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 443-26-198

H&P 318

Post Job Summary

Cement Production Casing

Date Prepared: 4/01/2015

Job Date: 03/29/2015

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

| | | | |
|--|------------------------|-----------------------------------|---------------------------|
| Sold To #: 300721 | Ship To #: 3124457 | Quote #: | Sales Order #: 0902257742 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | | Customer Rep: | |
| Well Name: FEDERAL | Well #: RGU 443-26-198 | API/UWI #: 05-103-11984-00 | |
| Field: SULPHUR CREEK | City (SAP): MEEKER | County/Parish: RIO BLANCO | State: COLORADO |
| Legal Description: 26-1S-98W-2466FNL-910FEL | | | |
| Contractor: H & P DRLG | | Rig/Platform Name/Num: H & P 318 | |
| Job BOM: 7523 | | | |
| Well Type: DIRECTIONAL GAS | | | |
| Sales Person: HALAMERICA\HX40837 | | Srvc Supervisor: Andrew Brennecke | |
| Job | | | |

| | |
|------------------------|-----------------------|
| Formation Name | |
| Formation Depth (MD) | Top Bottom |
| Form Type | BHST |
| Job depth MD | 12564ft Job Depth TVD |
| Water Depth | Wk Ht Above Floor 3 |
| 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 | 8.921 | 36 | | | 0 | 3945 | | 0 |
| Casing | | 4.5 | 4 | 11.6 | | | 0 | 12564 | | 0 |
| Open Hole Section | | | 8.75 | | | | 3945 | 8670 | 0 | 0 |
| Open Hole Section | | | 7.875 | | | | 8670 | 12572 | 0 | 0 |

Tools and Accessories

| Type | Size in | Qty | Make | Depth ft | Type | Size in | Qty | Make |
|--------------|---------|-----|------|----------|----------------|---------|-----|------|
| Guide Shoe | 4.5 | 1 | | 12564 | Top Plug | 4.5 | 1 | |
| Float Shoe | | | | | | | | |
| Float Collar | 4.5 | 1 | | 12535 | | | | |
| Insert Float | | | | | Plug Container | 4.5 | 1 | HES |
| Stage Tool | | | | | Centralizers | 4.5 | | 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 ft ³ /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal | |
| 1 | Fresh Water | Fresh Water | 100 | bbl | 8.3 | | | 10 | | |

| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
|---------|------------|------------|-----|---------|------------------------|-----------------------------|---------------|--------------|---------------------|
| | | | | | | | | | |

| | | | | | | | | | |
|---------------------|-------------------|--|------------|----------------|-------------------------------|-----------------------|----------------------|---------------------|----------------------------|
| 2 | ExtendaCem GJ1 | EXTENDACEM (TM) SYSTEM | 615 | sack | 11 | 2.75 | | 8 | 16.07 |
| 16.07 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 | EconoCem GJ1 | ECONOCEM (TM) SYSTEM | 350 | sack | 12.7 | 1.91 | | 8 | 10.09 |
| 10.09 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 | ThermaCem GJ1 | THERMACEM (TM) SYSTEM | 960 | sack | 13.5 | 1.75 | | 8 | 8.25 |
| 8.25 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 |
| 5 | Displacement | Displacement | 194.3 | bbl | 8.33 | | | 10.2 | |
| 0.01 gal/bbl | | MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781) | | | | | | | |
| 0.03 gal/bbl | | BE-6, 48 LB FIBER DRUM (100003800) | | | | | | | |
| Cement Left In Pipe | | | Amount | Reason | | | Shoe Joint | | |
| | | | 29 ft | | | | | | |
| Comment | | | | | | | | | |

2.0 Real-Time Job Summary

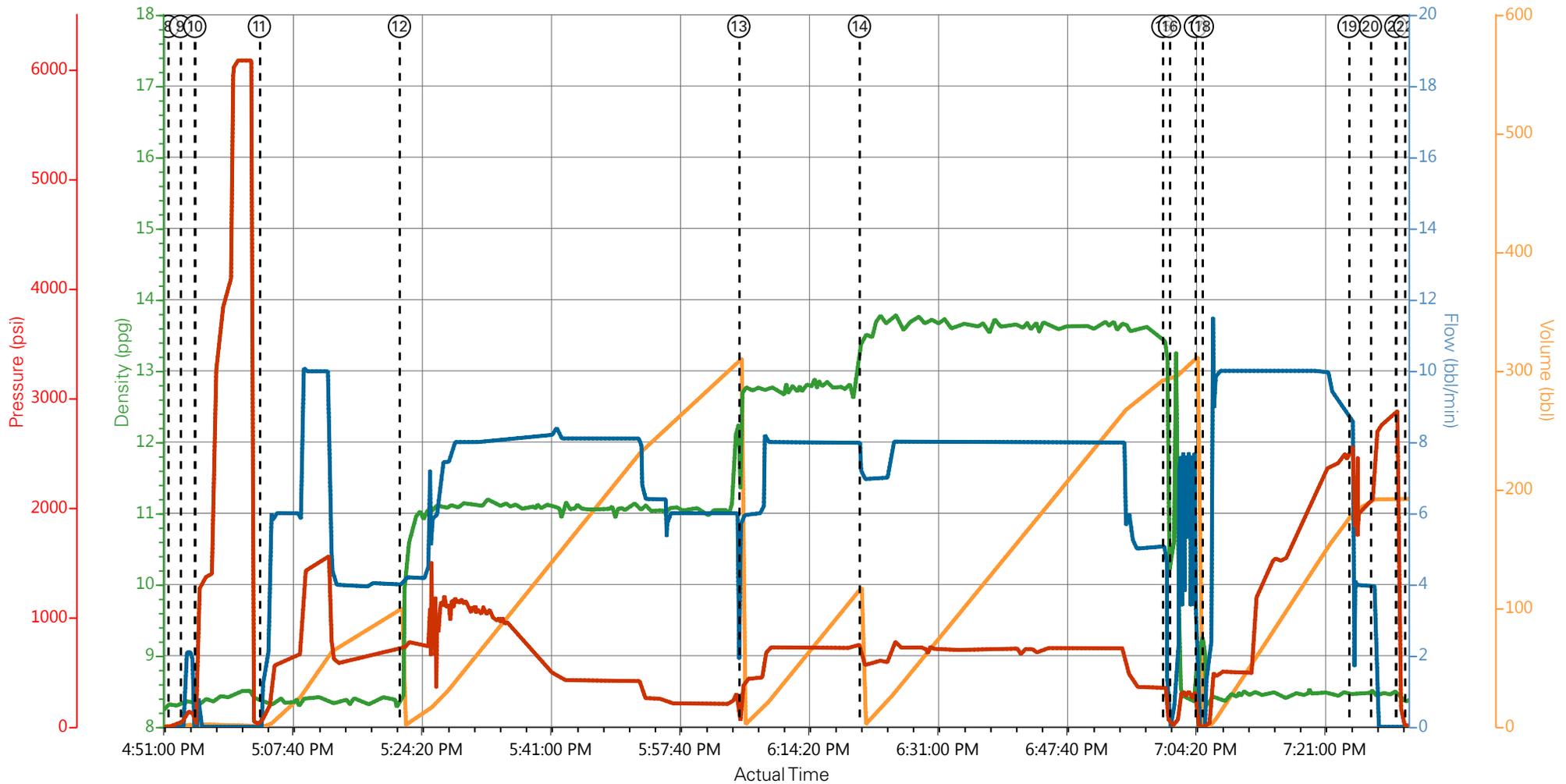
2.1 Job Event Log

| Type | Seq. No. | Graph Label | Date | Time | Source | Downhole Density (ppg) | Pass-Side Pump Pressure (psi) | Combined Pump Rate (bbl/min) | Pump Stage Total (bbl) | Comments |
|-------|----------|---------------------------------------|-----------|----------|--------|---------------------------|----------------------------------|---------------------------------|---------------------------|--|
| Event | 1 | Call Out | 3/28/2015 | 06:00:00 | USER | | | | | ELITE 2 |
| Event | 2 | Pre-Convoy Safety Meeting | 3/28/2015 | 09:00:00 | USER | | | | | WITH ALL HES EMPLOYEES |
| Event | 3 | Arrive At Loc | 3/28/2015 | 12:00:00 | USER | | | | | RIG RUNNING CASING, ARRIVED 1/2 HOUR EARLY, DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME |
| Event | 4 | Assessment Of Location Safety Meeting | 3/28/2015 | 12:30:00 | USER | | | | | WITH ALL HES EMPLOYEES |
| Event | 5 | Pre-Rig Up Safety Meeting | 3/28/2015 | 12:45:00 | USER | | | | | WITH ALL HES EMPLOYEES |
| Event | 6 | Rig-Up Equipment | 3/28/2015 | 13:00:00 | USER | | | | | 1 HT-400 PUMP TRUCK (ELITE #2) 2 660 BULK TRUCKS, 1 F-550 PICKUP, 1 IRON TRAILER |
| Event | 7 | Pre-Job Safety Meeting | 3/28/2015 | 16:30:00 | USER | | | | | WITH ALL HES EMPLOYEES AND RIG CREW, RIG CIRCULATED FOR 3 HOURS AT 10 BBL/MIN PRIOR TO THE JOB |
| Event | 8 | Start Job | 3/28/2015 | 16:52:00 | COM5 | | | | | TD:12572 TP:12564.83 SJ: 29 CSG:4.5 11.6# P-110 OH:8 3/4-7 7/8 MW:9.8 PPG SURF. CSG 9 5/8 36# @ 3945 |
| Event | 9 | Prime Lines | 3/28/2015 | 16:53:34 | COM5 | 8.33 | 143.0 | 2.0 | 2.0 | PRIME LINES WITH 2 BBLS FRESH WATER |
| Event | 10 | Test Lines | 3/28/2015 | 16:55:26 | COM5 | 8.33 | 6087 | 0.00 | 2.0 | PRESSURE TEST OK |
| Event | 11 | Pump Fresh Water Spacer | 3/28/2015 | 17:03:46 | COM5 | 8.33 | 1523.0 | 10.0 | 100.0 | PUMP 100 BBLS FRESH WATER SPACER |
| Event | 12 | Pump Scavenger Cement | 3/28/2015 | 17:21:52 | COM5 | 11.0 | 1120.0 | 8.0 | 301.2 | 615 SKS 11 PPG 2.75 YIELD 16.07 GAL/SK SCAVENGER CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES 7 BOXS TUFF FIBER |

ADDED TO SCAVENGER

| | | | | | | | | | | |
|-------|----|-----------------------------|-----------|----------|------|-------|--------|------|--------|---|
| Event | 13 | Pump Lead Cement | 3/28/2015 | 18:05:43 | COM5 | 12.70 | 755.0 | 8.0 | 119.05 | 350 SKS 12.7 PPG 1.91 YIELD 10.09 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES |
| Event | 14 | Pump Tail Cement | 3/28/2015 | 18:21:18 | COM5 | 13.50 | 733.0 | 8.0 | 299.2 | 960 SKS 13.5 PPG 1.75 YIELD 8.25 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES |
| Event | 15 | Shutdown | 3/28/2015 | 19:00:29 | USER | | | | | |
| Event | 16 | Clean Lines | 3/28/2015 | 19:01:20 | USER | | | | | WASH UP TO PIT |
| Event | 17 | Drop Top Plug | 3/28/2015 | 19:04:41 | USER | | | | | PLUG AWAY NO PROBLEMS COMPANY REP SUPPLIED TOP LATCH DOWN PLUG REMOVED TOP PLUG FROM TICKET |
| Event | 18 | Pump Displacement | 3/28/2015 | 19:05:35 | COM5 | 8.4 | 2680.0 | 10.0 | 194.5 | KCL WATER DISPLACEMENT 1 GAL MMCR IN FIRST 10 BBLS 3 LBS BE6 |
| Event | 19 | Slow Rate | 3/28/2015 | 19:24:31 | USER | 8.4 | 2650 | 4.0 | 184.5 | SLOW RATE TO BUMP PLUG |
| Event | 20 | Bump Plug | 3/28/2015 | 19:27:17 | COM5 | 8.4 | 2890.0 | | 194.5 | PSI BEFORE BUMPING PLUG @ 2210 PSI BUMPED PLUG UP TO 2890 PSI |
| Event | 21 | Check Floats | 3/28/2015 | 19:30:34 | COM5 | | | | | FLOATS HELD 2 BBLS BACK TO DISPLACEMENT TANK |
| Event | 22 | End Job | 3/28/2015 | 19:31:44 | COM5 | | | | | GOOD RETURNS UNTIL 130 BBLS INTO DISPLACEMENT NO RETURNS AFTER THAT, PIPE WAS WORKED THROUGHOUT JOB |
| Event | 23 | Pre-Rig Down Safety Meeting | 3/28/2015 | 20:00:00 | USER | | | | | WITH ALL HES EMPLOYEES |
| Event | 24 | Rig-Down Equipment | 3/28/2015 | 20:15:00 | USER | | | | | |
| Event | 25 | Pre-Convoy Safety Meeting | 3/28/2015 | 21:50:00 | USER | | | | | WITH ALL HES EMPLOYEES |
| Event | 26 | Crew Leave Location | 3/28/2015 | 22:00:00 | USER | | | | | THANK YOU FOR USING HALLIBURTON CEMENT DAVID CAMPBELL AND CREW |

WPX - FEDERAL RGU 443-26-198 - 4 1/2 PRODUCTION



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

- | | | | | |
|---|---------------------------|---------------------|--------------------------------|------------------------------|
| ① Call Out | ⑦ Pre-Job Safety Meeting | ⑬ Pump Lead Cement | ⑰ Slow Rate | 25 Pre-Convoy Safety Meeting |
| ② Pre-Convoy Safety Meeting | ⑧ Start Job | ⑭ Pump Tail Cement | 20 Bump Plug | 26 Crew Leave Location |
| ③ Arrive At Loc | ⑨ Prime Lines | ⑮ Shutdown | 21 Check Floats | |
| ④ Assessment Of Location Safety Meeting | ⑩ Test Lines | ⑯ Clean Lines | 22 End Job | |
| ⑤ Pre-Rig Up Safety Meeting | ⑪ Pump Fresh Water Spacer | ⑰ Drop Top Plug | 23 Pre-Rig Down Safety Meeting | |
| ⑥ Rig-Up Equipment | ⑫ Pump Scavenger Cement | ⑱ Pump Displacement | 24 Rig-Down Equipment | |

▼ **HALLIBURTON** | iCem® Service

Created: 2015-03-28 14:07:05, Version: 4.1.107

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 3/28/2015 4:15:43 PM

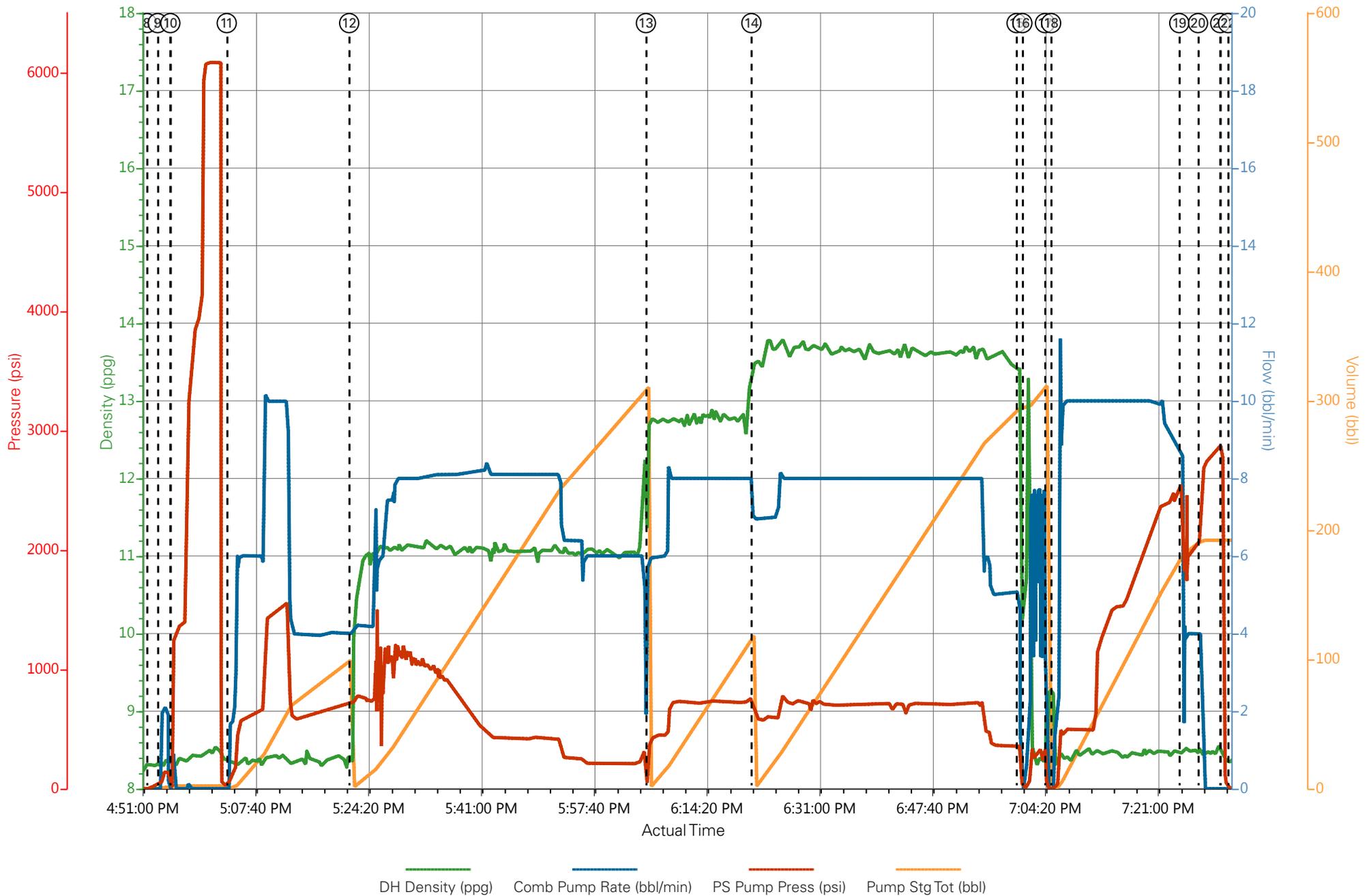
Well: RGU 443-26-198

Representative: TED RAGSDALE

Sales Order #: 902257742

ELITE # 2: DAVID CAMPBELL / JUSTIN BROWN

WPX - FEDERAL RGU 443-26-198 - 4 1/2 PRODUCTION



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

HALLIBURTON

Water Analysis Report

Company: WXP
Submitted by: DAVID CAMPBELL
Attention: J. TROUT
Lease: FEDERAL RGU
Well #: 443-26-198

Date: 3/28/2015
Date Rec.: 3/28/2015
S.O.#: 902257742
Job Type: PRODUCTION

| | | |
|-----------------------------|--------------|-----------------------|
| Specific Gravity | <i>MAX</i> | 1 |
| pH | <i>8</i> | 7 |
| Potassium (K) | <i>5000</i> | 250 Mg / L |
| Calcium (Ca) | <i>500</i> | 350 Mg / L |
| Iron (FE2) | <i>300</i> | 0 Mg / L |
| Chlorides (Cl) | <i>3000</i> | 0 Mg / L |
| Sulfates (SO ₄) | <i>1500</i> | <200 Mg / L |
| Chlorine (Cl ₂) | | 0 Mg / L |
| Temp | <i>40-80</i> | 45 Deg |
| Total Dissolved Solids | | 760 Mg / L |

Respectfully: DAVID CAMPBELL

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

| | | |
|--|--------------------------------|---|
| Sales Order #: 0902257742 | Line Item: 10 | Survey Conducted Date: 3/28/2015 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | | Job Type (BOM): CMT PRODUCTION CASING BOM |
| Customer Representative: | | API / UWI: (leave blank if unknown) 05-103-11984-00 |
| Well Name: FEDERAL | | Well Number: 0080129287 |
| Well Type: DIRECTIONAL GAS | Well Country: USA | |
| H2S Present: No | Well State: COLORADO | Well County: RIO BLANCO |

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 | 3/28/2015 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | HB58348 |
| 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 | |

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

| | | |
|--|--------------------------------|---|
| Sales Order #: 0902257742 | Line Item: 10 | Survey Conducted Date: 3/28/2015 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | | Job Type (BOM): CMT PRODUCTION CASING BOM |
| Customer Representative: | | API / UWI: (leave blank if unknown) 05-103-11984-00 |
| Well Name: FEDERAL | | Well Number: 0080129287 |
| Well Type: DIRECTIONAL GAS | Well Country: USA | |
| H2S Present: No | Well State: COLORADO | Well County: RIO BLANCO |

KEY PERFORMANCE INDICATORS

| General | |
|-----------------------------------|-----------|
| Survey Conducted Date | 3/28/2015 |
| 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) | 5 |
| 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? | |
| Pumping Hours | 3 |
| Total number of hours pumping fluid on this job. Enter in decimal format. | |
| Type of Rig Classification Job Was Performed | Drilling Rig (Portable) |
| Type Of Rig (classification) Job Was Performed On | |
| Number Of JSAs Performed | 6 |
| Number Of Jsas Performed | |
| Was this a Primary Cement Job (Yes / No) | Yes |
| Primary Cement Job= Casing job, Liner job, or Tie-back job. | |
| Number of Unplanned Shutdowns | 0 |
| Unplanned shutdown is when injection stops for any period of time. | |
| Customer Non-Productive Rig Time (hrs) | 0 |

| | | |
|--|--------------------------------|---|
| Sales Order #: 0902257742 | Line Item: 10 | Survey Conducted Date: 3/28/2015 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | | Job Type (BOM): CMT PRODUCTION CASING BOM |
| Customer Representative: | | API / UWI: (leave blank if unknown) 05-103-11984-00 |
| Well Name: FEDERAL | | Well Number: 0080129287 |
| Well Type: DIRECTIONAL GAS | Well Country: USA | |
| H2S Present: No | Well State: COLORADO | Well County: RIO BLANCO |

| | |
|--|-----|
| 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) | No |
| 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) | No |
| 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 |