

WPX Energy Rocky Mountain LLC- EBUS

NER 523-32

Nabors 576

Post Job Summary

Cement Surface Casing

Date Prepared: 08/31/2014
Job Date: 08/29/2014

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

| | | | |
|--|--------------------|--|----------------------------|
| Sold To #: 300721 | Ship To #: 3123447 | Quote #: | Sales Order #: 0901626450 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | | Customer Rep: AL HARTL | |
| Well Name: FEDERAL | | Well #: NER 523-32 | API/UWI #: 05-045-21776-00 |
| Field: RULISON | City (SAP): RIFLE | County/Parish: GARFIELD | State: COLORADO |
| Legal Description: 5-7S-93W-113FNL-2571FWL | | | |
| Contractor: | | Rig/Platform Name/Num: Nabors 576 | |
| Job BOM: 7521 | | | |
| Well Type: DIRECTIONAL GAS | | | |
| Sales Person: HALAMERICA\HX23209 | | Srvc Supervisor: Francisco Javier Castillo | |

Job

| | | | | |
|------------------------|--------|---------|-------------------|---------------|
| Formation Name | | | | |
| Formation Depth (MD) | Top | Surface | Bottom | 1177ft |
| 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 | Used | 9.625 | 9.001 | 32.3 | 8rd | H-40 | 0 | 30 | 0 | 0 |
| Casing | New | 9.625 | 9.001 | 32.3 | 8rd | H-40 | 0 | 1177 | | 0 |
| Open Hole Section | | | 13.5 | | | | 0 | 1177 | | 0 |

Tools and Accessories

| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make |
|--------------|---------|-----|------|----------|--|----------------|---------|-----|------|
| Guide Shoe | 9.625 | 1 | WTF | 1177 | | Top Plug | 9.625 | 1 | HES |
| Float Shoe | | | | | | Bottom Plug | | | |
| Float Collar | 9.625 | 1 | WTF | 1133 | | SSR plug set | | | |
| Insert Float | | | | | | Plug Container | 9.625 | 1 | HES |
| Stage Tool | | | | | | Centralizers | 9.625 | 9 | WTF |

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 | |

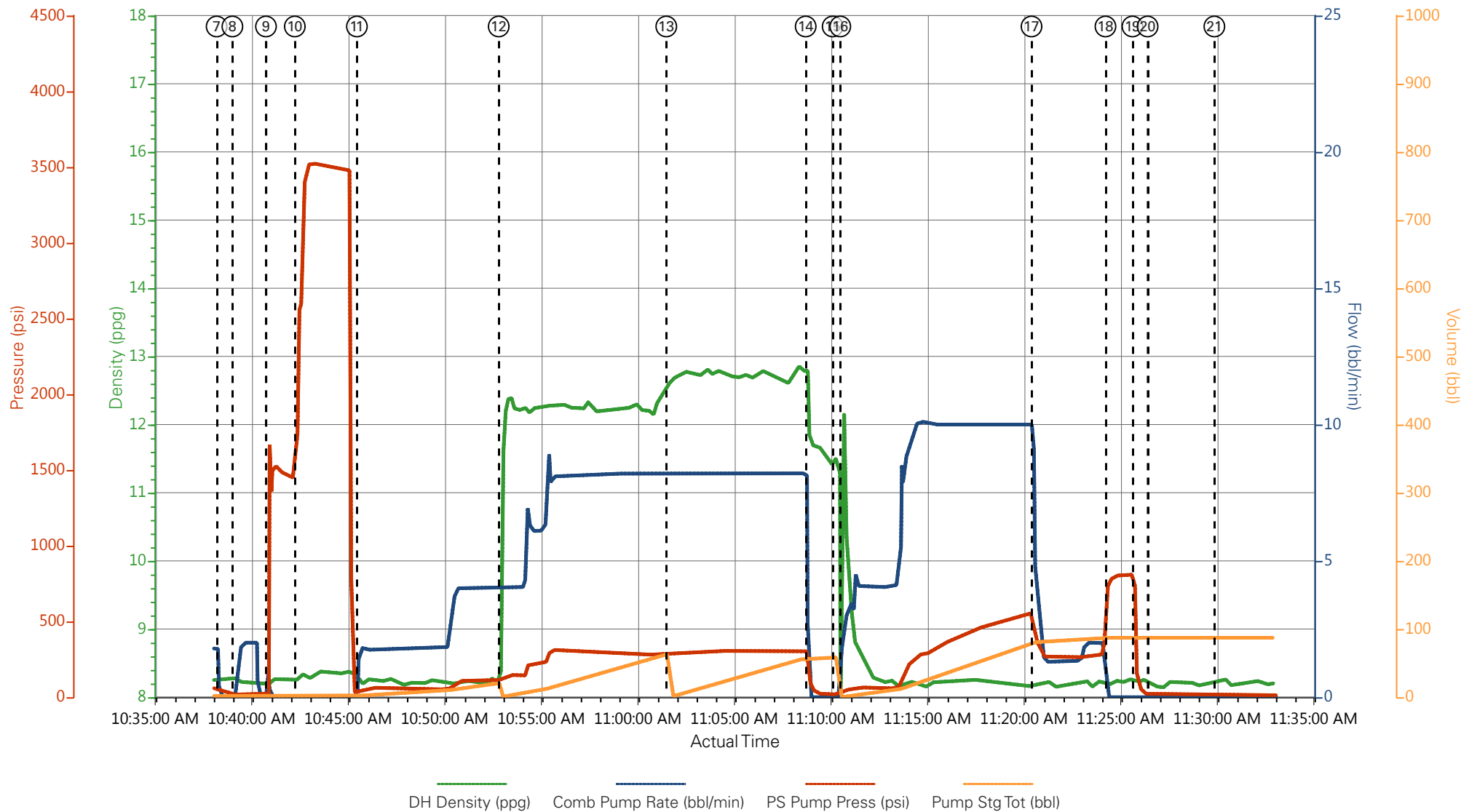
| 2 | VariCem GJ1 | VARICEM (TM) CEMENT | 140 | sack | 12.3 | 2.38 | | 8 | 13.77 |
|---------------------|--------------------------|--------------------------|-------|---------|---------------------------|-------------------|------------------|-----------------|---------------------------|
| 13.70 Gal | | FRESH WATER | | | | | | | |
| 0.25 lbm | | POLY-E-FLAKE (101216940) | | | | | | | |
| | | | | | | | | | |
| 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 | 160 | 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

| Graph Label | Date | Time | DH Density (ppg) | Comb Pump Rate (bbl/min) | PS Pump Press (psi) | Pump Stg Tot (bbl) | Comment |
|-------------------------------|-----------|----------|---------------------|--------------------------------|---------------------------|--------------------------|---|
| CALL OUT | 8/29/2014 | 03:00:00 | | | | | ON LOCATION AT 09:00 HRS |
| DEPART YARD SAFETY MEETING | 8/29/2014 | 05:55:00 | | | | | |
| CREW LEAVE THE YARD | 8/29/2014 | 06:00:00 | | | | | |
| ARRIVE ON LOCATION | 8/29/2014 | 08:00:00 | | | | | RIG WAS STILL RUNNING CASING |
| RIG UP MEETING / RIG UP | 8/29/2014 | 09:00:00 | | | | | 1-ELITE, 1-660 BULK TRUCK, 2" PUMPING IRON, 9.625- PLUG CONTAINER AND QUICK CONNECT, 2" BALE BASKET |
| PRE-JOB SAFETY MEETING | 8/29/2014 | 10:15:00 | | | | | |
| START JOB | 8/29/2014 | 10:38:20 | | | | | SET DEPTH-1177', OH-13.5", SJ-44.12", CSG-9.625", 32.3#, H-40, MUD-10.2 PPG, FV-75 |
| PRIME LINES | 8/29/2014 | 10:39:09 | 8.33 PPG | 2 BPM | 45 PSI | 2 BBLS | FRESH WATER |
| STALL OUT | 8/29/2014 | 10:40:53 | | | | | HELD PRESSURE AT 1500 PSI |
| TEST LINES | 8/29/2014 | 10:42:22 | | | | | HELD PRESSURE AT 3530 PSI |
| WATER SPACER | 8/29/2014 | 10:45:35 | 8.33 PPG | 4 BPM | 52 PSI | 20 BBLS | FRESH WATER |
| LEAD SLURRY | 8/29/2014 | 10:52:56 | 12.3 PPG | 8 BPM | 282 PSI | 59 BBLS | 140 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK |
| TAIL SLURRY | 8/29/2014 | 11:01:37 | 12.8 PPG | 8 BPM | 400 PSI | 60 BBLS | 160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.77 GAL/SK |
| SHUTDOWN | 8/29/2014 | 11:08:50 | | | | | |
| DROP PLUG | 8/29/2014 | 11:10:14 | | | | | VERIFIED BY DRILLER |
| DISPLACEMENT | 8/29/2014 | 11:10:37 | 8.33 PPG | 10 BPM | 436 PSI | 79 BBLS | FRESH WATER |
| SLOW RATE | 8/29/2014 | 11:20:31 | 8.33 PPG | 2 BPM | 277 PSI | 10 BBLS | |
| BUMP PLUG | 8/29/2014 | 11:24:21 | | | 809 PSI | TOTAL DISP 89 BBL | CIRCULATED 30 BBLS / 71 SKS TO SURFACE |

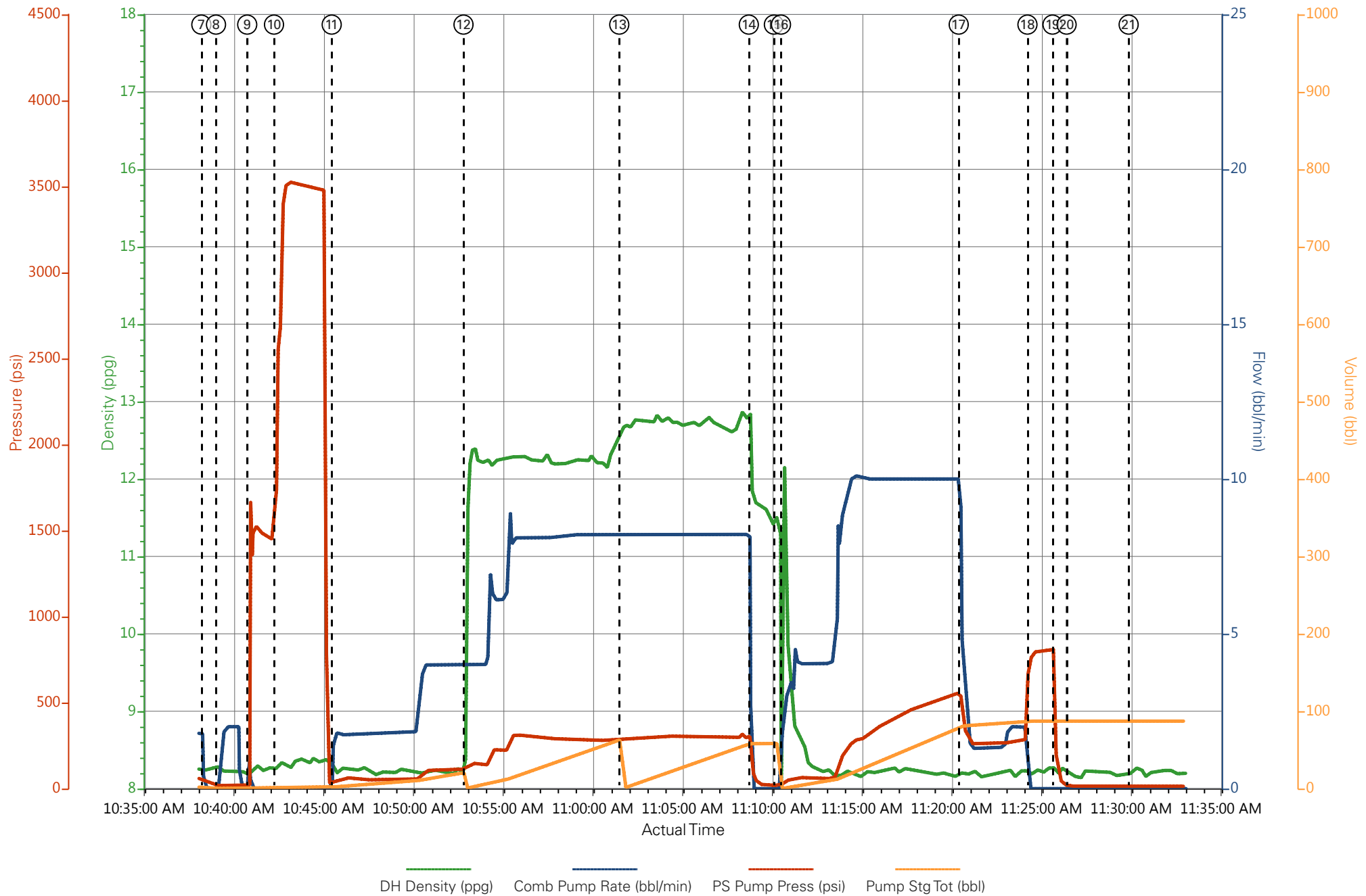
| | | | |
|---------------------------------------|-----------|----------|---|
| CHECK FLOATS | 8/29/2014 | 11:25:45 | FLOATS HELD / FLOW BACK 0.5 BBLS |
| END JOB | 8/29/2014 | 11:26:32 | USED 20 LBS OF SUGAR |
| RIG DOWN SAFETY MEETING / RIG DOWN | 8/29/2014 | 11:30:00 | |
| RIG DOWN COMPLETE | 8/29/2014 | 12:30:00 | |
| DEPART LOCATION SAFETY MEETING | 8/29/2014 | 12:45:00 | NO INJURIES TO REPORT |
| CREW LEAVE LOCATION | 8/29/2014 | 13:00:00 | |
| THANK YOU | 8/29/2014 | 13:01:00 | THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW |

NER 523-32 9 5/8" Surface



| | | | | |
|---|---|--------------------------------|---------------------------------|--------------------------------|
| ① CALL OUT n/a;n/a;n/a;n/a | ⑤ RIG UP MEETING / RIG UP n/a;n/a;n/a;n/a | ⑨ STALL OUT 8.21;0.3;1679;2.1 | ⑬ TAIL SLURRY 12.61;8.2;291;0.1 | ⑰ SLOW RATE 8.21;4.8;436;80.7 |
| ② DEPARTYARD SAFETY MEETING n/a;n/a;n/a;n/a | ⑥ PRE-JOB SAFETY MEETING n/a;n/a;n/a;n/a | ⑩ TEST LINES 8.26;0;2545;2.1 | ⑭ SHUTDOWN 11.88;0;125;58.3 | ⑱ BUMP PLUG 8.17;0;759;87.2 |
| ③ CREW LEAVE THE YARD n/a;n/a;n/a;n/a | ⑦ START JOB 8.23;0;47;2.3 | ⑪ WATER SPACER 8.18;1.8;37;2.3 | ⑮ DROP PLUG 11.48;0;19;58.3 | ⑲ CHECK FLOATS 8.27;0;259;87.2 |
| ④ ARRIVE ON LOCATION n/a;n/a;n/a;n/a | ⑧ PRIME LINES 8.27;0.2;16;0 | ⑫ LEAD SLURRY 9.79;4;117;0.6 | ⑯ DISPLACEMENT 12.16;2;35;0.4 | 20 END JOB 8.25;0;16;87.2 |

NER 523-32 9 5/8" Surface



HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: Chuck Ross

Lease FED NER

Well # 523-32

Date: 8/29/2014

Date Rec.: 8/29/2014

S.O.# 901626450

Job Type: SURFACE

| | | |
|-----------------------------|--------------|-------------------|
| Specific Gravity | <i>MAX</i> | 1 |
| pH | <i>8</i> | 7 |
| Potassium (K) | <i>5000</i> | 200 Mg / L |
| Calcium (Ca) | <i>500</i> | 120 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> | 65 Deg |
| Total Dissolved Solids | | 410 Mg / L |

Respectfully: JAVIER CASTILLO

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 #: 0901626450 | Line Item: 10 | Survey Conducted Date: 8/29/2014 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: AL HARTL | | API / UWI: (leave blank if unknown) 05-045-21776-00 |
| Well Name: FEDERAL | | Well Number: 0080125494 |
| 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 | 8/29/2014 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | HB85312 |
| 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 | 8/29/2014 |
| 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) | 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? | |
| Operating Hours (Pumping Hours) | 1.5 |
| 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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| 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 | 95 |
| 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 | 95 |
| 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 |