

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RWF 34-25

Nabors 577

Post Job Summary

Cement Surface Casing

Date Prepared: 09/14/2014

Job Date: 09/08/2014

Submitted by: Kory Hugentobler- Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

| | | | |
|--|--------------------|-----------------------------------|---------------------------|
| Sold To #: 300721 | Ship To #: 3123575 | Quote #: | Sales Order #: 0901651013 |
| Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS | | Customer Rep: Vearl Tucker | |
| Well Name: SAVAGE | Well #: RWF 34-25 | API/UWI #: 05-045-21995-00 | |
| Field: RULISON | City (SAP): RIFLE | County/Parish: GARFIELD | State: COLORADO |
| Legal Description: SW SE-25-6S-94W-1124FSL-1391FEL | | | |
| Contractor: NABORS DRLG | | Rig/Platform Name/Num: NABORS 577 | |
| Job BOM: 7521 | | | |
| Well Type: DIRECTIONAL GAS | | | |
| Sales Person: HALAMERICA\HB50180 | | Srcv Supervisor: Brandon Reeves | |
| Job | | | |

| | | | |
|------------------------|--------|--|-------------------|
| Formation Name | | | |
| Formation Depth (MD) | Top | | Bottom |
| Form Type | | | BHST |
| Job depth MD | 1123ft | | 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 | 8 RD | H-40 | 0 | 1123 | 0 | 1123 |
| Open Hole Section | | | 13.5 | | | | 0 | 1133 | 0 | 1133 |

| Tools and Accessories | | | | | | | | | |
|-----------------------|---------|-----|------|----------|--|----------------|---------|-----|------|
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make |
| Guide Shoe | 9.625 | | | 1123 | | 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 | Sand Type |
| | | | | | | | | | | |

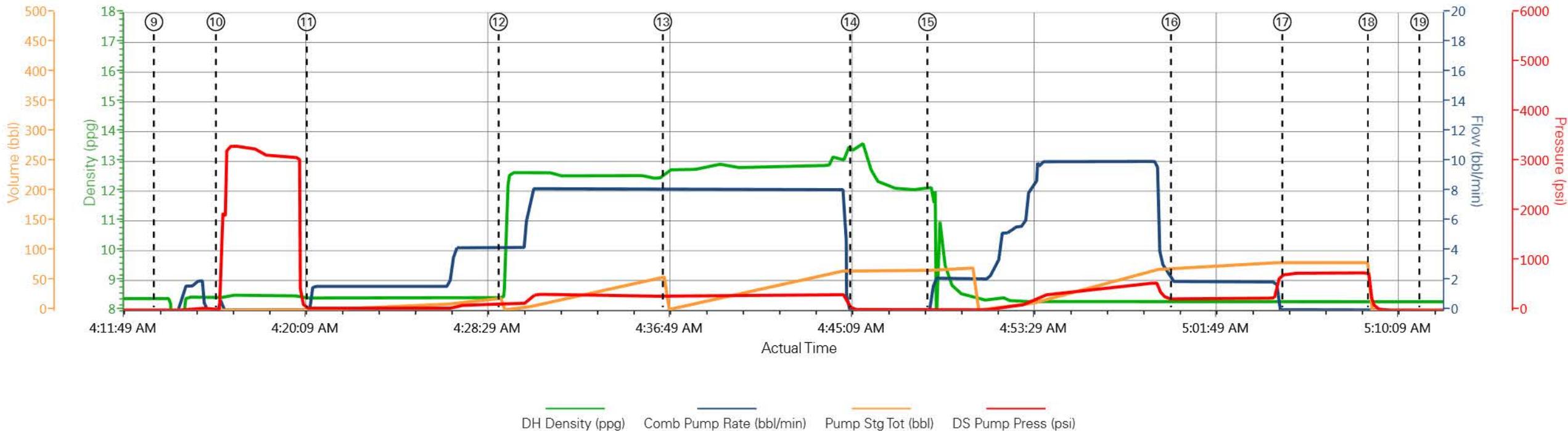
| Fluid Data | | | | | | | | | | |
|-----------------|-------------|--------------------------------|-----|---------|------------------------|----------------|---------------|--------------|---------------------|--|
| Stage/Plug #: 1 | | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty 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 | 135 | sack | 12.3 | 2.38 | | 8 | 13.77 | |
| 0.30 % | | VERSASET, 55 LB SK (101376573) | | | | | | | | |

| | | ECONOLITE (100001580) | | | | | | | | |
|----------------------------|--------------|--------------------------------------|-------|---------|---------------------------|-------------------|------------------|---------------------|---------------------------|--|
| 13.72 Gal | | FRESH WATER | | | | | | | | |
| | | D-AIR 5000, 50 LB SACK (102068797) | | | | | | | | |
| 94 lbm | | TYPE I / II CEMENT, BULK (101439798) | | | | | | | | |
| | | CAL-SEAL 60, BULK (100064022) | | | | | | | | |
| | | SALT, BULK (100003695) | | | | | | | | |
| | | POLY-E-FLAKE (101216940) | | | | | | | | |
| | | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/mi n | Total Mix Fluid Gal | |
| 3 | Tail Cement | VARICEM (TM) CEMENT | 165 | 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 ft3/sack | Mix Fluid Gal | Rate bbl/mi n | Total Mix Fluid Gal | |
| 4 | Displacement | Fresh Water Displacement | 84 | bbl | 8.34 | | | 10 | | |
| Cement Left In Pipe | | Amount | 46 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 | 9/7/2014 | 22:30:11 | USER | | | | | |
| Event | 2 | Depart from Service Center or Other Site | 9/8/2014 | 00:00:00 | USER | | | | | |
| Event | 3 | Arrive at Location from Service Center | 9/8/2014 | 01:40:25 | USER | | | | | REQUESTED ON LOCATION TIME WAS 02:30. |
| Event | 4 | Assessment Of Location Safety Meeting | 9/8/2014 | 02:10:34 | USER | | | | | |
| Event | 5 | Spot Equipment | 9/8/2014 | 02:39:08 | USER | | | | | |
| Event | 6 | Pre-Rig Up Safety Meeting | 9/8/2014 | 02:39:24 | USER | | | | | |
| Event | 7 | Rig-Up Equipment | 9/8/2014 | 02:39:45 | USER | | | | | |
| Event | 8 | Pre-Job Safety Meeting | 9/8/2014 | 03:50:12 | USER | | | | | |
| Event | 9 | Start Job | 9/8/2014 | 04:13:21 | COM5 | 8.39 | 0.00 | 0.0 | 0.00 | TD-1133' TP-1123' SJ-46' MW-9.4 PPG. HOLE-13 1/2" CASING-9 5/8" 32.3 PPF. H-40 |
| Event | 10 | Test Lines | 9/8/2014 | 04:16:10 | COM5 | 8.43 | 0.00 | 1.8 | 3290.00 | TESTED LINES TO 3290 PSI. |
| Event | 11 | Pump Water Spacer | 9/8/2014 | 04:20:20 | COM5 | 8.41 | 4.00 | 20.0 | 105.00 | FRESH WATER SPACER. |
| Event | 12 | Pump Lead Cement | 9/8/2014 | 04:29:07 | COM5 | 12.33 | 8.00 | 57.2 | 320.00 | 135 SKS.@ 12.3 PPG. 2.38 YIELD 13.77 GAL/SK. |
| Event | 13 | Pump Tail Cement | 9/8/2014 | 04:36:38 | COM5 | 12.80 | 8.00 | 62.0 | 310.00 | 165 SKS.@ 12.8 PPG. 2.11 YIELD 11.75GAL/SK. |
| Event | 14 | Drop Top Plug | 9/8/2014 | 04:45:12 | COM5 | 12.78 | 0.00 | 0.0 | 0.00 | |
| Event | 15 | Pump Displacement | 9/8/2014 | 04:48:44 | COM5 | 8.31 | 10.00 | 0.0 | 565.00 | FRESH WATER DISPLACEMENT. |
| Event | 16 | Slow Rate | 9/8/2014 | 04:59:53 | COM5 | 8.29 | 2.00 | 70.0 | 218.00 | SLOW RATE TO LAND THE PLUG. |
| Event | 17 | Bump Plug | 9/8/2014 | 05:04:59 | COM5 | 8.31 | 2.00 | 84.0 | 245.00 | PLUG LANDED AT 245 PSI. PRESSURED UP TO 730 PSI. |
| Event | 18 | Check Floats | 9/8/2014 | 05:08:54 | COM5 | 8.30 | 0.00 | 0.0 | 0.00 | FLOATS HELD. .5 BBL. OF FLOW BACK. |
| Event | 19 | End Job | 9/8/2014 | 05:11:16 | COM5 | 8.29 | 0.00 | 0.0 | 0.00 | THE WELL WAS CIRCULATED BEFORE STARTING THE JOB. GOOD CIRCULATION THROUGHOUT THE JOB. THE PIPE WAS NOT RECIPROCATED. CIRCULATED 15 BBL.S.OF CEMENT TO SURFACE. |

WPX ENERGY - SAVAGE RWF 34-25 - 9 5/8" SURFACE



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Created: 2014-09-08 02:35:14, Version: 3.0.121

[Edit](#)

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 9/8/2014

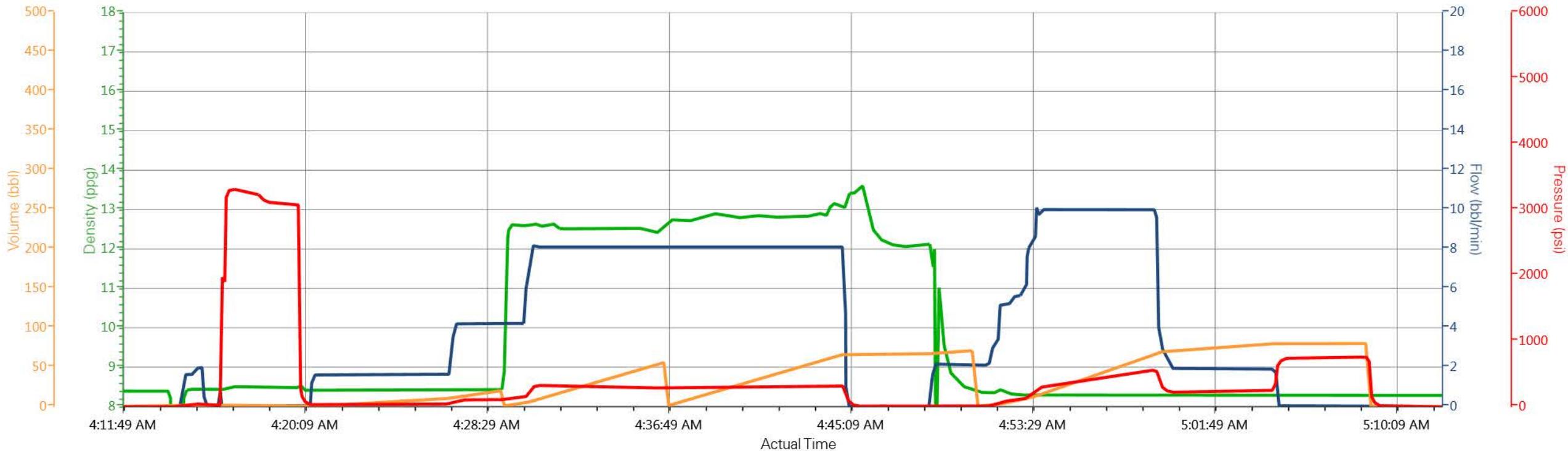
Well: SAVAGE RWF 34-25

Representative: BRANDON REEVES

Sales Order #: 901651013

Elite / Operator: ELITE 7 / KEVIN BENNETT

WPX ENERGY - SAVAGE RWF 34-25 - 9 5/8" SURFACE



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

HALLIBURTON

Water Analysis Report

Company: WPX ENERGY

Date: 9/8/2014

Submitted by: BRANDON REEVES

Date Rec.: 9/8/2014

Attention: J. TROUT

S.O.# 901651013

Lease SAVAGE

Job Type: SURFACE

Well # RWF 34-25

| | | |
|-----------------------------|--------------|-------------------------|
| 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> | 0 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> | 66 Deg |
| Total Dissolved Solids | | 400 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