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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**RWF 24-25  
RULISON  
Garfield County , Colorado**

**Cement Surface Casing**  
**11-Jan-2014**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123561	Quote #:	Sales Order #: 901032697
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Wilson, W.C		
Well Name: RWF	Well #: 24-25	API/UWI #: 05-045-21979	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.494 deg. OR N 39 deg. 29 min. 37.849 secs.	Long: W 107.838 deg. OR W -108 deg. 9 min. 43.758 secs.		
Contractor: Nabors	Rig/Platform Name/Num: Nabors 577		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srv Supervisor: KEANE, JOHN	MBU ID Emp #: 486519	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	0.0	371353	KEANE, JOHN Donovan	0.0	486519	MCINTOSH, ROBERT	0.0	547652

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10784064	60 mile	11006314	60 mile	11583931	60 mile
11808827	60 mile						

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL Total is the sum of each column separately

## Job

Formation Name					Date				Time		Time Zone					
Formation Depth (MD)		Top		Bottom		Called Out			10 - Jan - 2014		18:00		MST			
Form Type				BHST		On Location			10 - Jan - 2014		22:45		MST			
Job depth MD		1150. ft		Job Depth TVD		1150. ft		Job Started			11 - Jan - 2014		03:09		MST	
Water Depth				Wk Ht Above Floor		3. ft		Job Completed			11 - Jan - 2014		04:12		GMT	
Perforation Depth (MD)		From				To		Departed Loc			11 - Jan - 2014		05:20		MST	

## Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
OPEN HOLE				13.5				.	1162.	.	1162.
9.625 IN SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1150.3	.	1150.3

## Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Stage/Plug #: 1

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	.0	
2	VersaCem Lead	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75		13.75
	13.75 Gal	FRESH WATER							
3	VersaCem Tail	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75		11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid			bbl	8.34	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	41.8 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

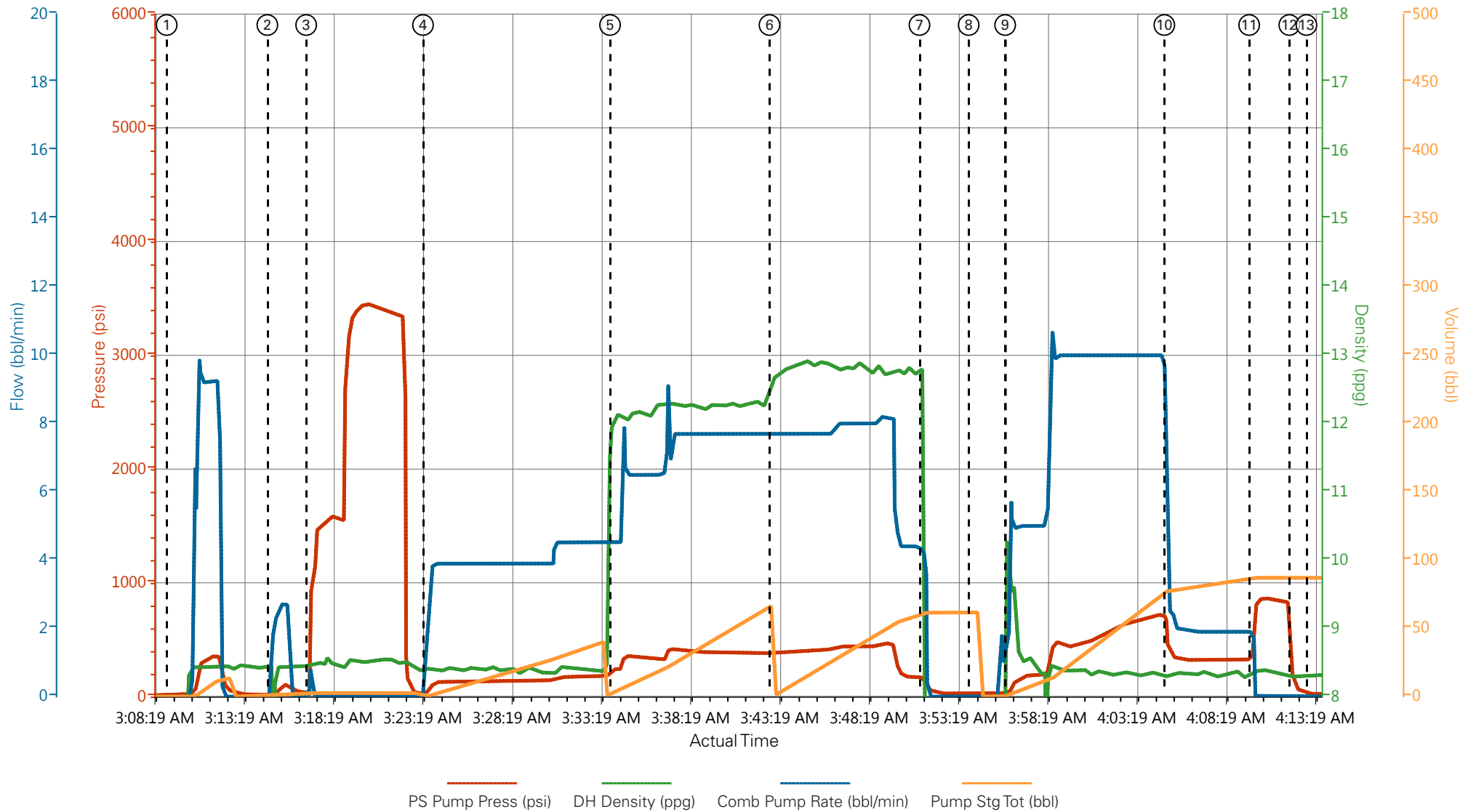
*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721		<b>Ship To #:</b> 3123561		<b>Quote #:</b>		<b>Sales Order #:</b> 901032697	
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<b>Well Name:</b> RWF			<b>Well #:</b> 24-25			<b>API/UWI #:</b> 05-045-21979	
<b>Field:</b> RULISON		<b>City (SAP):</b> RIFLE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Legal Description:</b>							
<b>Lat:</b> N 39.494 deg. OR N 39 deg. 29 min. 37.849 secs.				<b>Long:</b> W 107.838 deg. OR W -108 deg. 9 min. 43.758 secs.			
<b>Contractor:</b> Nabors			<b>Rig/Platform Name/Num:</b> Nabors 577				
<b>Job Purpose:</b> Cement Surface Casing						<b>Ticket Amount:</b>	
<b>Well Type:</b> Development Well			<b>Job Type:</b> Cement Surface Casing				
<b>Sales Person:</b> MAYO, MARK			<b>Srvc Supervisor:</b> KEANE, JOHN			<b>MBU ID Emp #:</b> 486519	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/10/2014 18:00							
Pre-Convoy Safety Meeting	01/10/2014 20:30							WITH HES
Arrive At Loc	01/10/2014 22:45							RIG PULLING DRILL PIPE UPON HES ARRIVAL
Assessment Of Location Safety Meeting	01/10/2014 23:30							WITH HES
Pre-Rig Up Safety Meeting	01/11/2014 01:30							WITH HES
Rig-Up Equipment	01/11/2014 01:45							
Pre-Job Safety Meeting	01/11/2014 02:55							WITH HES, WPX, AND NABORS 577
Start Job	01/11/2014 03:09							TP 1150.3 FT, TD 1162 FT, SHOE 41.87 FT, HOLE 13.5 IN, CSG 9.625 IN 32.3 LB/FT H-40, MWT 9.4 LB/GAL, RIG CIRCULATING AT 10 BBL/MIN
Pump Water	01/11/2014 03:14		2	2			113.0	FILL LINES
Test Lines	01/11/2014 03:16							LOW TEST AT 1512 PSI, HIGH TEST AT 3451 PSI, PRESSURE HOLDING
Pump Spacer	01/11/2014 03:23		4	40			139.0	FRESH WATER SPACER, RETURNS AT 2 BBL AWAY ON SPACER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Lead Cement	01/11/2014 03:33		8	67.8			430.0	MIXED AT 12.3 LB/GAL, 160 SKS, 2.38 FT3/SK, 13.75 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Pump Tail Cement	01/11/2014 03:42		8	60.1			410.0	MIXED AT 12.8 LB/GAL, 160 SKS, 2.11 FT3/SK, 11.75 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Shutdown	01/11/2014 03:51						167.0	
Drop Plug	01/11/2014 03:54							PLUG LAUNCHED
Pump Displacement	01/11/2014 03:56		10	77			670.0	FRESH WATER
Slow Rate	01/11/2014 04:05		2	10			253.0	SLOWED AT 77 BBL AWAY
Bump Plug	01/11/2014 04:09		2				301.0	PLUG BUMPED AT CALCULATED DISPLACEMENT
Check Floats	01/11/2014 04:12						833.0	FLOATS HOLDING, 1 BBL RETURNED TO THE TRUCK
End Job	01/11/2014 04:13							GOOD CIRCULATION THROUGHOUT THE JOB, PIPE WAS STATIC THROUGHOUT THE JOB, NO ADD HOURS CHARGED, NO DERRICK CHARGE, RIG USED 50 LBS OF SUGAR, 15 BBL CEMENT CIRCULATED TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	01/11/2014 04:20							WITH HES
Rig-Down Equipment	01/11/2014 04:30							
Pre-Convoy Safety Meeting	01/11/2014 05:15							WITH HES
Crew Leave Location	01/11/2014 05:20							
Comment	01/11/2014 05:21							THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

# WPX - RWF-24-25 - 9.625 IN SURFACE



- |   |                                      |                               |
|---|--------------------------------------|-------------------------------|
| ① Start Job 11;0.01;0;0                   | ⑥ Pump Tail Cement 388;12.64;7.7;0.1 | ⑪ Bump Plug 389;8.35;1.9;86.9 |
| ② Fill Lines 11;8.45;0.3;0                | ⑦ Shutdown 167;12.81;4.2;60.8        | ⑫ Check Floats 175;8.3;0;87   |
| ③ Test Lines 30;8.45;0.1;2.5              | ⑧ Drop Top Plug 26;-0.03;0;61.6      | ⑬ End Job 26;8.3;0;87         |
| ④ Pump Fresh Water Spacer 38;8.41;1.6;0.2 | ⑨ Pump Displacement 39;9.73;1.9;0.6  |                               |
| ⑤ Pump Lead Cement 240;12.01;4.5;2.6      | ⑩ Slow Rate 441;8.29;2.5;77.5        |                               |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-01-11 00:43:06, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/11/2014 2:10:30 AM

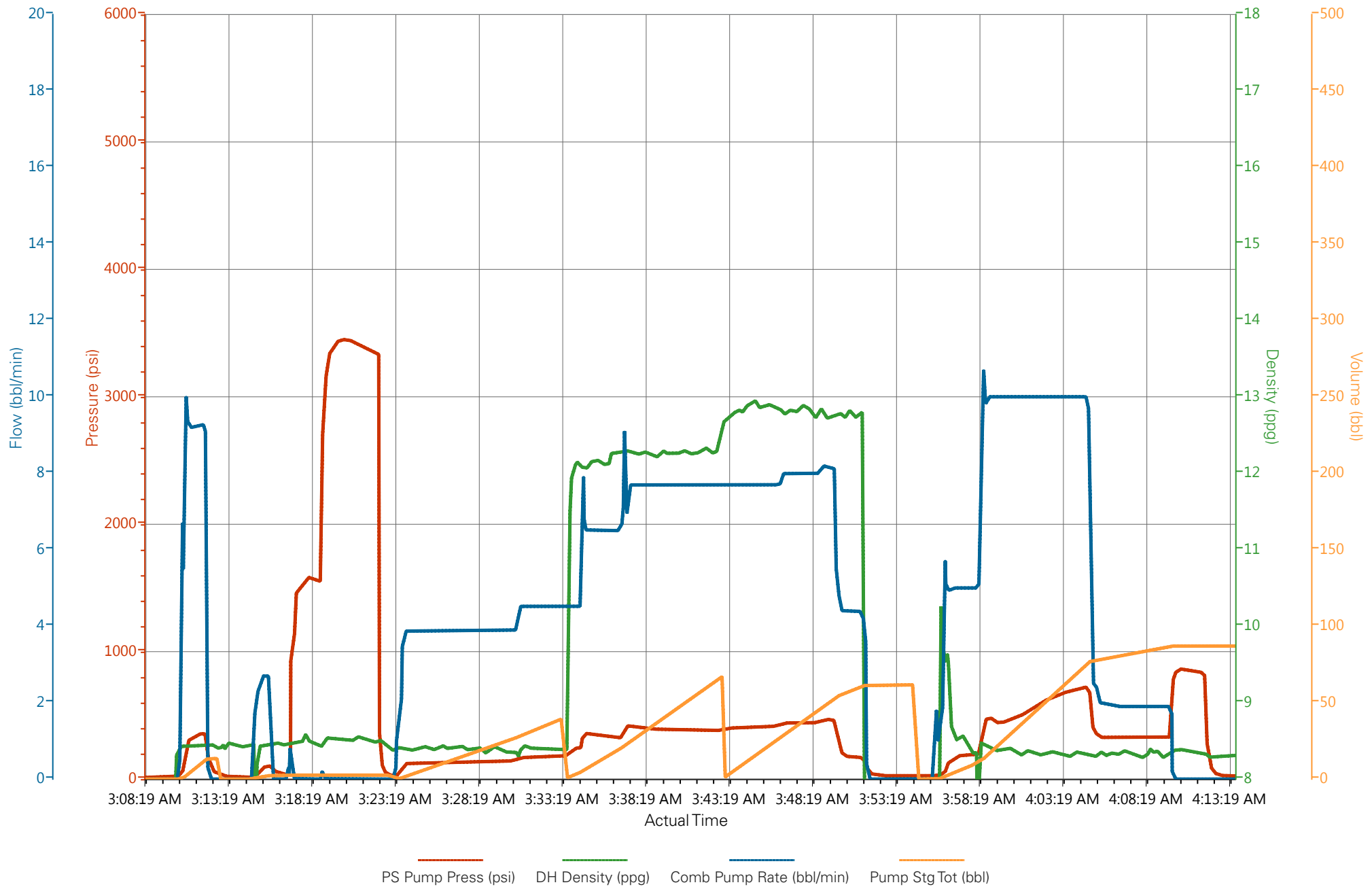
Well: RWF-24-25

Representative: W.C. Wilson

Sales Order #: 901032697

Elite 4: John Keane / Robert McIntosh

# WPX - RWF-24-25 - 9.625 IN SURFACE



# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: JOHN KEANE

Attention: CHUCK ROSS

Lease RWF

Well # 24-25

Date: 1/10/2014

Date Rec.: 1/10/2014

S.O.# 901032697

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>200</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>400</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>500</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>90</b> Deg
Total Dissolved Solids		<b>390</b> Mg / L

Respectfully: JOHN KEANE

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



<b>Sales Order #:</b> 901032697	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/11/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> W.C. WILSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-21979
<b>Well Name:</b> RWF		<b>Well Number:</b> 24-25
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> 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	1/11/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JOHN KEANE (HB58526)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	W.C. WILSON
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	

<b>CUSTOMER SIGNATURE</b>
---------------------------

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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	1/11/2014

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	4
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<b>Customer Non-Productive Rig Time (hrs)</b> 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.	0
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	6
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 901032697	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/11/2014
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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	90
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	93
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0