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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**RWF 424-25  
Rulison  
Garfield County , Colorado**

**Cement Surface Casing**  
**21-Dec-2013**

**Post Job Summary**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2759347	Quote #:	Sales Order #: 900989653
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Wilson, W.C		
Well Name: RWF	Well #: 424-25	API/UWI #: 05-045-21982	
Field: Rulison	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.494 deg. OR N 39 deg. 29 min. 37.77 secs.	Long: W 107.838 deg. OR W -108 deg. 9 min. 43.636 secs.		
Contractor: Aztec	Rig/Platform Name/Num: Aztec 1000		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srvc 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	13	371353	KEANE, JOHN Donovon	13	486519	SOMOZA, RAMON Manuel	13	554555

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10744549	60 mile	10951245	60 mile	11139330	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
12/21/2013	13	1						

**TOTAL** Total is the sum of each column separately

Job					Job Times			
Formation Name					Date	Time	Time Zone	
Formation Depth (MD)	Top		Bottom		Called Out	21 - Dec - 2013	06:15	MST
Form Type		BHST			On Location	21 - Dec - 2013	11:25	MST
Job depth MD	1126.3 ft	Job Depth TVD	1126.3 ft		Job Started	21 - Dec - 2013	18:15	MST
Water Depth		Wk Ht Above Floor	4. ft		Job Completed	21 - Dec - 2013	19:15	MST
Perforation Depth (MD)	From		To		Departed Loc	21 - Dec - 2013	20:20	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				.	1140.	.	1140.
9.625 IN SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1126.3	.	1126.3

Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		

## Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		40.00	bbl	8.33	.0	.0	4	
2	VariCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	140.0	sacks	12.3	2.38	13.75	8	13.75
13.75 Gal		FRESH WATER							
3	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	8	11.75
11.75 Gal		FRESH WATER							
4	Displacement Fluid		86.00	bbl	8.34	.0	.0	10	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	86.4	Shut In: Instant		Lost Returns	0	Cement Slurry	119.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	10	Actual Displacement	86.4	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	246
<b>Rates</b>									
Circulating	10	Mixing	8	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	28.8 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> 2759347	<b>Quote #:</b>	<b>Sales Order #:</b> 900989653
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> Wilson, W.C	
<b>Well Name:</b> RWF		<b>Well #:</b> 424-25	<b>API/UWI #:</b> 05-045-21982
<b>Field:</b> Rulison	<b>City (SAP):</b> PARACHUTE	<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. 37.77 secs.		<b>Long:</b> W 107.838 deg. OR W -108 deg. 9 min. 43.636 secs.	
<b>Contractor:</b> Aztec		<b>Rig/Platform Name/Num:</b> Aztec 1000	
<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	12/21/2013 06:15							
Pre-Convoy Safety Meeting	12/21/2013 09:00							WITH HES
Arrive At Loc	12/21/2013 11:25							RIG PULLING DRILL PIPE UPON HES ARRIVAL
Assessment Of Location Safety Meeting	12/21/2013 12:00							WITH HES
Pre-Rig Up Safety Meeting	12/21/2013 14:30							WITH HES
Rig-Up Equipment	12/21/2013 14:35							
Pre-Job Safety Meeting	12/21/2013 18:00							WITH HES, WPX , AND NABORS 577
Start Job	12/21/2013 18:14							TD 1140 FT, TP 1126.3 FT, HOLE 13.5 IN, CSG 9.625 IN 32.3LB/FT H-40, SHOE 28.84 FT, MWT 9.7 LB/GAL
Pump Water	12/21/2013 18:15		2	2			105.0	FILL LINES
Test Lines	12/21/2013 18:17							LOW TEST AT 1614 PSI, HIGH TEST AT 3437 PSI, PRESSURE HOLDING
Pump Spacer	12/21/2013 18:23		4	40			153.0	FRESH WATER
Pump Lead Cement	12/21/2013 18:33		8	59.3			339.0	MIXED AT 12.3 LB/GAL, 140 SKS, 2.38 FT3/SK, 13.75 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Activity Description	Date/Time	Cht	Rate bbl/ min	Volume bbl		Pressure psig		Comments

Sold To # : 300721

Ship To # :2759347

Quote # :

Sales Order # : 900989653

		#		Stage	Total	Tubing	Casing	
Pump Tail Cement	12/21/2013 18:41		8	60			380.0	MIXED AT 12.8 LB/GAL, 160 SKS, 2.11 FT3/SK, 11.75 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Shutdown	12/21/2013 18:50						105.0	
Drop Plug	12/21/2013 18:51							PLUG LAUNCHED
Pump Displacement	12/21/2013 18:53		10	76			600.0	FRESH WATER
Slow Rate	12/21/2013 19:03		2	10				SLOWED AT 76 BBL AWAY
Bump Plug	12/21/2013 19:09		2				290.0	PLUG BUMPED AT CALCULATED DISPLACEMENT
Check Floats	12/21/2013 19:12						790.0	FLOATS HOLDING, .75 BBL RETURNED TO THE TRUCK
End Job	12/21/2013 19:15							GOOD CIRCULATION THROUGHOUT THE JOB, PIPE WAS STATIC THROUGHOUT THE JOB, 10 BBL CEMENT CIRCULATED TO SURFACE, NO ADD HOURS CHARGED, NO DERRICK CHARGE, RIG USED 70 LBS OF SUGAR
Post-Job Safety Meeting (Pre Rig-Down)	12/21/2013 19:20							WITH HES
Rig-Down Equipment	12/21/2013 19:30							
Pre-Convoy Safety Meeting	12/21/2013 20:15							WITH HES
Crew Leave Location	12/21/2013 20:20							
Comment	12/21/2013 20:21							THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: JOHN KEANE

Attention: CHUCK ROSS

Lease RWF

Well # 3523-2-H

Date: 12/21/2013

Date Rec.: 12/21/2013

S.O.# 900989653

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>125</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>425</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>300</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>65</b> Deg
Total Dissolved Solids		<b>390</b> Mg / L

Respectfully: JOHN KEANE

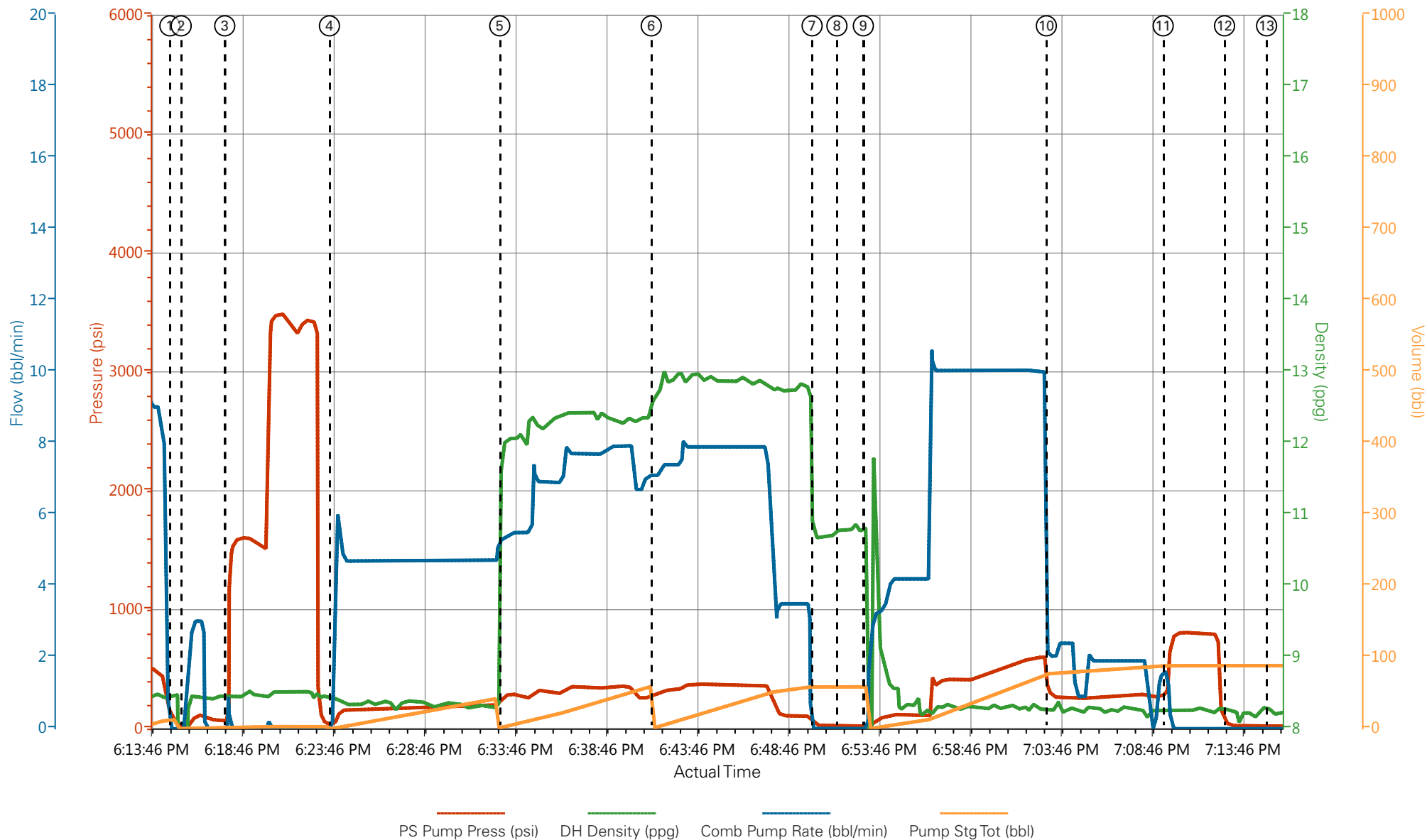
Title: CEMENTING SUPERVISOR

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

# WPX - RWF-424-25 - 9.625 IN SURFACE



- |                              |   |                                     |                               |                          |
|------------------------------|---|-------------------------------------|-------------------------------|--------------------------|
| ① Start Job 70;8.45;0;12.5   | ④ Pump Fresh Water Spacer 33;8.43;1.3;0 | ⑦ Shutdown 34;10.76;0;58.6          | ⑩ Slow Rate 303;8.3;2.1;77.2  | ⑬ End Job 20;8.26;0;88.4 |
| ② Fill Lines 19;0.15;0.3;0   | ⑤ Pump Lead Cement 260;11.98;5.3;2.2    | ⑧ Drop Top Plug 23;10.77;0;58.6     | ⑪ Bump Plug 287;8.26;1.6;88.2 |                          |
| ③ Test Lines 67;8.46;0.9;2.8 | ⑥ Pump Tail Cement 291;12.66;7.1;1.4    | ⑨ Pump Displacement 22;10.81;0;58.6 | ⑫ Check Floats 38;8.28;0;88.4 |                          |

▼ **HALLIBURTON** | iCem® Service

Created: 2013-12-21 15:57:23, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 12/21/2013 3:59:48 PM

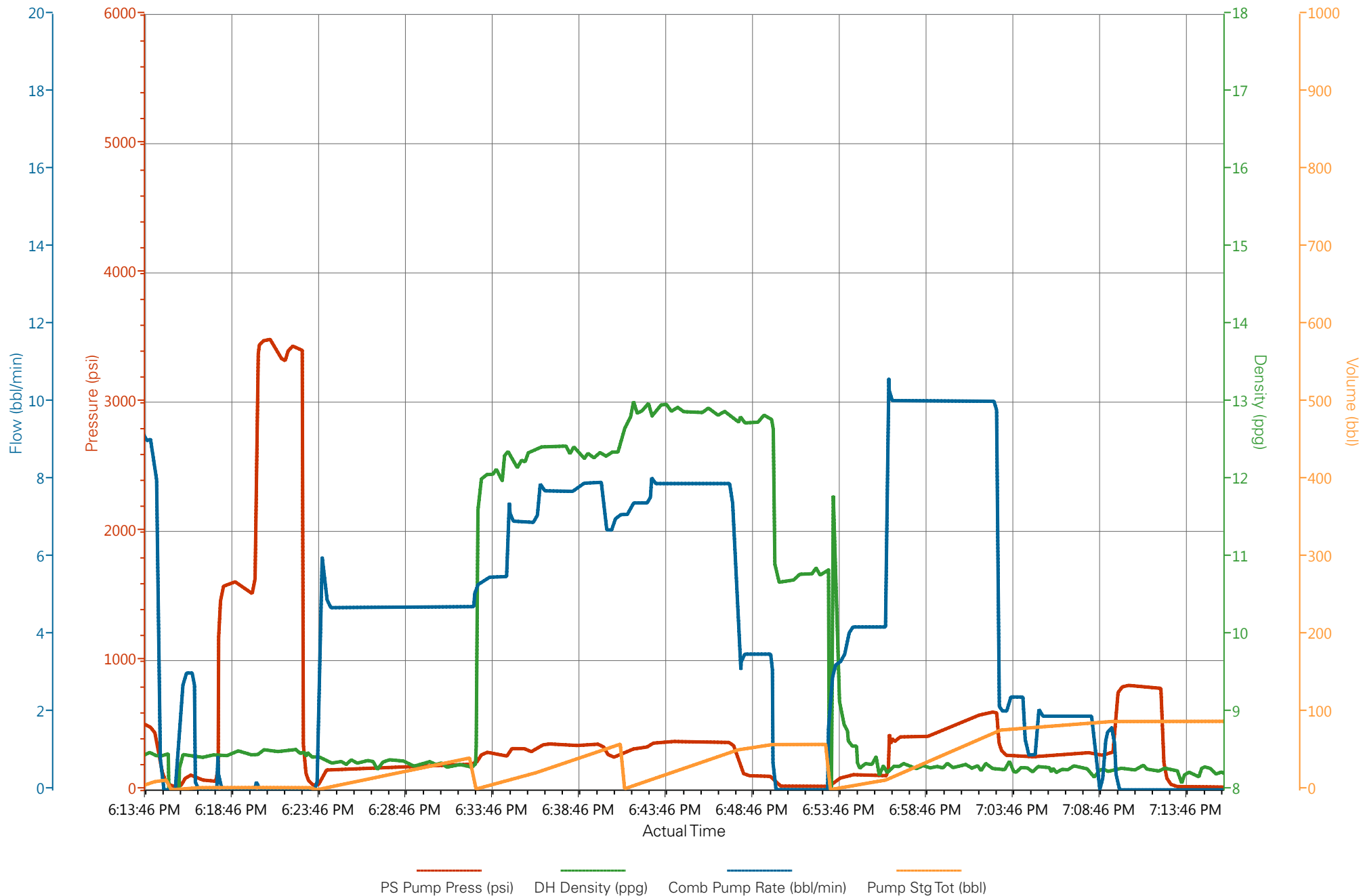
Well: RWF-424-5

Representative: W.C. WILSON

Sales Order #: 900989653

ELITE 4: JOHN KEANE / BRENT BANKS

# WPX - RWF-424-25 - 9.625 IN SURFACE





<b>Sales Order #:</b> 900989653	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 12/23/2013
<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> 05-045-21982
<b>Well Name:</b> RWF		<b>Well Number:</b> 424-25
<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	12/23/2013
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>Well Name:</b> RWF		<b>Well Number:</b> 424-25
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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	12/23/2013

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.	5
<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.	1.5
<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

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<b>Well Name:</b> RWF		<b>Well Number:</b> 424-25
<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

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	90
<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