

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS  
DO NOT MAIL - ACH-43241  
TULSA, Oklahoma

RU 42-5

**NABORS/574**

## **Post Job Summary**

### **Cement Surface Casing**

Date Prepared: 01/22/2014  
Version: 1

Service Supervisor: CASTILLO, FRANCISCO

Submitted by: Grand Junction Cement Engineering

**HALLIBURTON**

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 300721		<b>Ship To #:</b> 3108850		<b>Quote #:</b>		<b>Sales Order #:</b> 900783050	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Hartl, Al			
<b>Well Name:</b> RU			<b>Well #:</b> 42-5			<b>API/UWI #:</b>	
<b>Field:</b> Rulison		<b>City (SAP):</b> RIFLE		<b>County/Parish:</b> Garfield			<b>State:</b> Colorado
<b>Lat:</b> N 39.475 deg. OR N 39 deg. 28 min. 28.924 secs.				<b>Long:</b> W 107.799 deg. OR W -108 deg. 12 min. 4.518 secs.			
<b>Contractor:</b> NABORS 574			<b>Rig/Platform Name/Num:</b> NABORS 574				
<b>Job Purpose:</b> Cement Surface Casing							
<b>Well Type:</b> Development Well				<b>Job Type:</b> Cement Surface Casing			
<b>Sales Person:</b> MAYO, MARK			<b>Srvc Supervisor:</b> CASTILLO, FRANCISCO			<b>MBU ID Emp #:</b> 513620	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CASTILLO, FRANCISCO P	7	513620	SCHANZ, ANDREW Jacob	7	544399	SINCLAIR, DAN J	7	338784

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10567589C	60 mile	10867094	60 mile	10897925	60 mile	11259884	60 mile
11808829	60 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9/28/13	4	0	9/29/13	3	1			
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

### Job

Formation Name	Job	Date	Time	Time Zone
Formation Depth (MD)	Top SURFACE Bottom 1170	Called Out	28 - Sep - 2013	16:00 MST
Form Type	BHST	On Location	28 - Sep - 2013	20:00 MST
Job depth MD	1170. ft	Job Depth TVD	1170. ft	Job Started 29 - Sep - 2013 00:01 MST
Water Depth		Wk Ht Above Floor	3. ft	Job Completed 29 - Sep - 2013 00:58 MST
Perforation Depth (MD)	From To	Departed Loc	29 - Sep - 2013	03:00 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
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### 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	1115	HES

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	9.625	1	WTF	1159	Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9.625	1	WTF	1115	Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
Stage Tool										Centralizers	9.625		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/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	4	
2	VariCem GJ! Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	7.5	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	7.5	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement		88.00	bbl	.	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	88	Shut In: Instant		Lost Returns	0	Cement Slurry	128	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	88	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	234
Rates									
Circulating	RIG	Mixing	7.5	Displacement	10	Avg. Job	8.5		
Cement Left In Pipe	Amount	44 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					

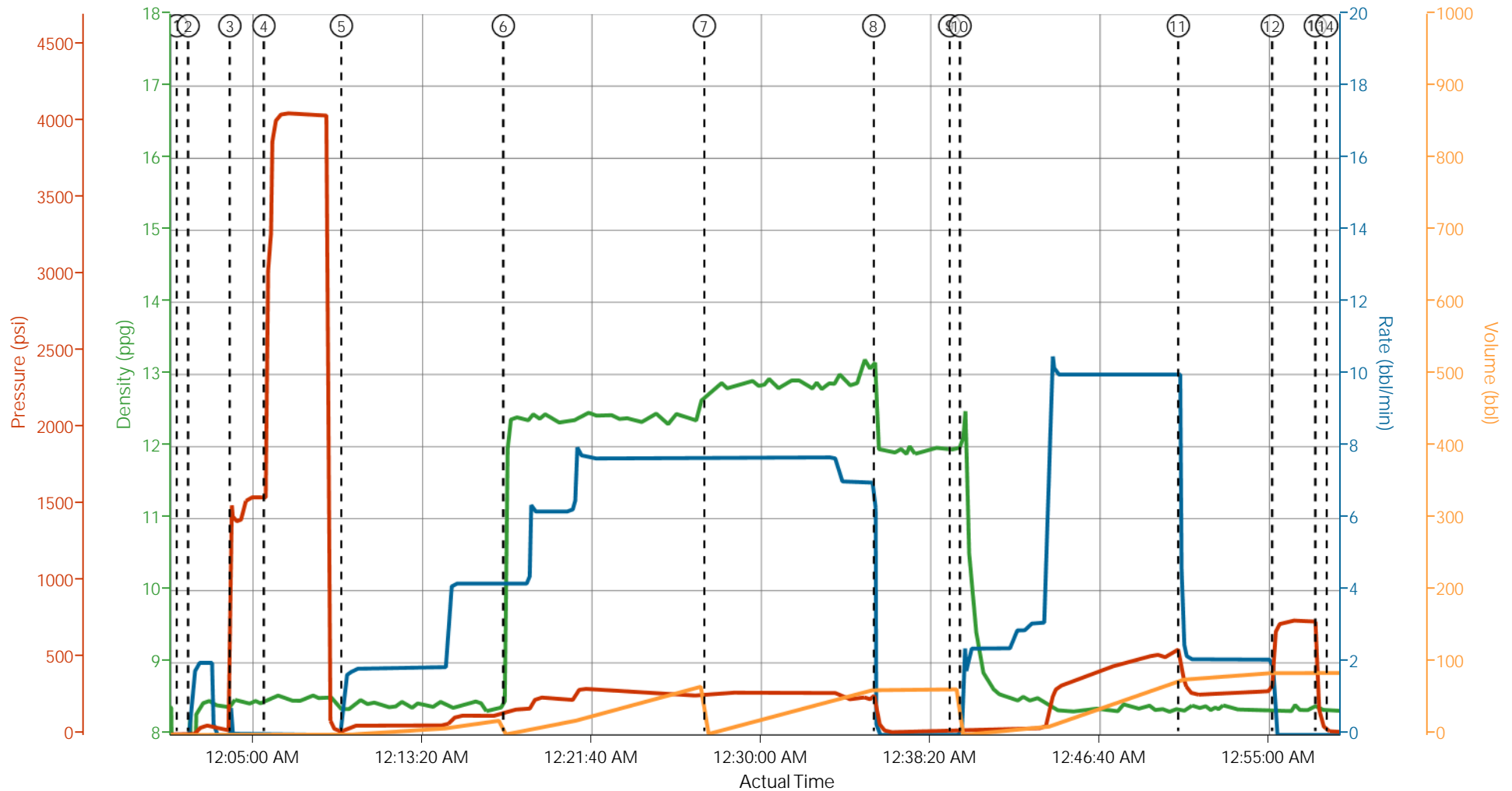
*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721		<b>Ship To #:</b> 3108850		<b>Quote #:</b>		<b>Sales Order #:</b> 900783050	
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<b>Well Name:</b> RU			<b>Well #:</b> 42-5			<b>API/UWI #:</b>	
<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 39.475 deg. OR N 39 deg. 28 min. 28.924 secs.				<b>Long:</b> W 107.799 deg. OR W -108 deg. 12 min. 4.518 secs.			
<b>Contractor:</b> NABORS 574			<b>Rig/Platform Name/Num:</b> NABORS 574				
<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>Srv Supervisor:</b> CASTILLO, FRANCISCO			<b>MBU ID Emp #:</b> 513620	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/28/2013 16:00							CREW WAS CALLED OUT AT 16:00 HRS WITH ON LOCATION TIME FOR 22:00 HRS
Pre-Convoy Safety Meeting	09/28/2013 17:50							ALL HES PERSONEL
Crew Leave Yard	09/28/2013 18:00							
Arrive At Loc	09/28/2013 20:00							CASING CREW WERE SETTING UP TO RUN CASING. STATIONED THE TRUCKS TO THE SIDE OF LOCATION TILL CASING WAS RUN AND RACKS OUT OF THE WAY.
Assessment Of Location Safety Meeting	09/28/2013 22:30							ALL HES PERSONEL
Rig-Up Equipment	09/28/2013 22:40							1-ELITE, 1-660 BULK TRUCKS, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH
Rig-Up Completed	09/28/2013 23:30							
Pre-Job Safety Meeting	09/28/2013 23:45							ALL HES PERSONEL AND RIG CREW
Start Job	09/29/2013 00:01							TD-1170', TP-1159', SJ-44', FC-1115', CSG-9.625", 32.3#, H-40, OH-13.5, MUD-10.2 PPG, VISC-110, PV-36, YP-28, pH-.62, TEMP-96
Pump Water	09/29/2013 00:02		2	2			56.0	FILL LINES

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pressure Test	09/29/2013 00:04		0.2	0.2				STALL OUT TEST WITH 1551 PSI
Pressure Test	09/29/2013 00:05		0.2	0.2				PRESSURE TEST LINES WITH 4053 PSI
Pump Spacer	09/29/2013 00:09		4	20			134.0	FRESH WATER
Pump Lead Cement	09/29/2013 00:17		7.5	68			262.0	160 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK, SETUP TIME 2:38 HRS AT 70 BC
Pump Tail Cement	09/29/2013 00:27		7.5	60			277.0	160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK, SETUP TIME 1:51 HRS AT 70 BC
Shutdown	09/29/2013 00:35							
Drop Plug	09/29/2013 00:39							PLUG DROP VERIFIED BY DRILLER
Pump Displacement	09/29/2013 00:40		10	78			445.0	FIRST 10 BBLS OF DISPLACEMENT WERE PUMPED AT 3 BPM WITH 60 PSI
Slow Rate	09/29/2013 00:50		2	10			287.0	
Bump Plug	09/29/2013 00:55							CIRCULATED 30 BBLS/71 SKS OF CEMENT TO SURFACE
Check Floats	09/29/2013 00:57							FLOATS HELD/ 0.5 BBLS FLOW BACK TO DISPLACEMENT TANK
End Job	09/29/2013 00:58							USED 40 LBS OF SUGAR IN THE CELLAR
Post-Job Safety Meeting (Pre Rig-Down)	09/29/2013 01:05							HES PERSONEL
Rig-Down Completed	09/29/2013 02:15							
Depart Location Safety Meeting	09/29/2013 02:50							
Crew Leave Location	09/29/2013 03:00							
Other	09/29/2013 03:01							THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

# WPX RU 42-5 9 5/8 SURFACE



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

- Start Job -0.01;0;1;0
- Test Lines 8.48;0.2;2730;2
- Pump Tail Cement 12.74;7.7;263;1.3
- Pump Displacement 12.43;2;27;0.1
- Check Floats 8.36;0;159;86
- Fill Lines 0.1;0.9;0;0
- Pump Water Spacer 8.37;1.1;21;0.1
- Shutdown 12.2;0;112;63.3
- Slow Rate 8.32;4.1;414;76.6
- End Job 8.36;0;21;86
- Stall Out 8.5;0;1376;2
- Pump Lead Cement 11.75;4.2;142;1.1
- Drop Plug 11.92;0;20;63.3
- Bump Plug 8.33;0;682;86

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Created: 2013-09-28 23:02:09, Version: 2.0.606

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 9/28/2013 11:04:07 PM

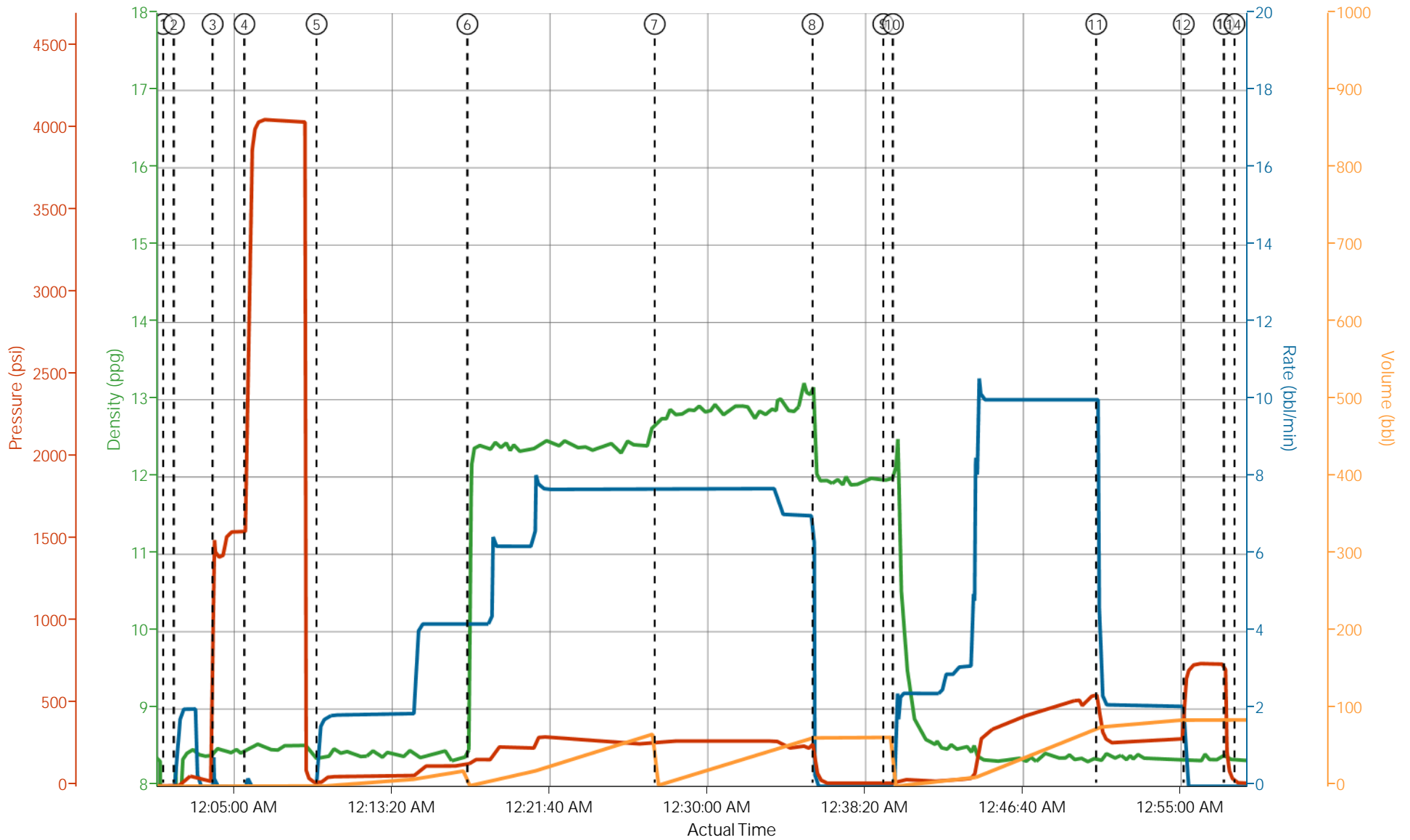
Well : RU 42-5

Representative: AL HARTL

Sales Order # : 900783050

ELITE #3: J, CASTILLO/DAN SINCLAIR

# WPX RU 42-5 9 5/8 SURFACE



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

# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: J.Trout

Lease: RU

Well #: 42-5

Date: 9/28/2013

Date Rec.: 9/28/2013

S.O.#: 900783050

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>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>73</b> Deg
Total Dissolved Solids		<b>410</b> 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 use.



<b>Sales Order #:</b> 900783050	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/29/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL HARTL		<b>API / UWI: (leave blank if unknown)</b> AFEYSFJ1FLKGS2BMAAA
<b>Well Name:</b> RU		<b>Well Number:</b> 42-5
<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	9/29/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	FRANCISCO CASTILLO (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	

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

<b>Sales Order #:</b> 900783050	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/29/2013
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<b>Customer Representative:</b> AL HARTL		<b>API / UWI: (leave blank if unknown)</b> AFEYSFJ1FLKGS2BMAAA
<b>Well Name:</b> RU		<b>Well Number:</b> 42-5
<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

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	9/29/2013

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.	7
<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	5
<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>Customer Representative:</b> AL HARTL		<b>API / UWI: (leave blank if unknown)</b> AFEYSFJ1FLKGS2BMAAA
<b>Well Name:</b> RU		<b>Well Number:</b> 42-5
<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	95
<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	95
<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