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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**RWF 42-4  
Rulison  
Garfield County , Colorado**

**Cement Surface Casing**  
**05-Oct-2013**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3109933	Quote #:	Sales Order #: 900799438
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Vallad, Gary	
Well Name: RWF		Well #: 42-4	API/UWI #:
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Contractor: NABORS 574		Rig/Platform Name/Num: NABORS 574	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: ARNOLD, EDWARD	MBU ID Emp #: 439784

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	10.5	439784	BRENNECKE, ANDREW Bailey	10.5	486345	SALAZAR, PAUL Omar	10.5	445614

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867304	60 mile	10872429	60 mile	11071559	60 mile	11259882	60 mile
11808847	60 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2013-10-05	10.5	4						
<b>TOTAL</b>	<i>Total is the sum of each column separately</i>							

### Job

JOB						JOB Times				
Formation Name							Date	Time	Time Zone	
Formation Depth (MD)		Top			Bottom		Called Out	04 - Oct - 2013	19:00	MST
Form Type				BHST			On Location	05 - Oct - 2013	00:00	MST
Job depth MD		1145. ft		Job Depth TVD		1145. ft	Job Started	05 - Oct - 2013	08:46	MST
Water Depth				Wk Ht Above Floor		3. ft	Job Completed	05 - Oct - 2013	09:40	MST
Perforation Depth (MD)		From			To		Departed Loc	05 - Oct - 2013	10:30	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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### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8"	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	1	HES
Stage Tool										Centralizers			

### Miscellaneous Materials

<b>Gelling Agt</b>		<b>Conc</b>		<b>Surfactant</b>		<b>Conc</b>		<b>Acid Type</b>		<b>Qty</b>		<b>Conc</b>	%
<b>Treatment Fld</b>		<b>Conc</b>		<b>Inhibitor</b>		<b>Conc</b>		<b>Sand Type</b>		<b>Size</b>		<b>Qty</b>	

### 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													
Fluid #	Stage Type	Fluid Name			Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom		

Stage/Plug #: 1									
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	4	

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
2	VersaCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	325.0	sacks	12.8	2.11	11.75	7.5	11.75
	11.75 Gal	FRESH WATER							
3	Fresh Water Displacement		85.00	bbl	.	.0	.0	10	

Calculated Values		Pressures		Volumes					
Displacement	85.3	Shut In: Instant		Lost Returns		Cement Slurry	122.1	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement	85.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	227.4

Rates									
Circulating	RIG	Mixing	7.5	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	47 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
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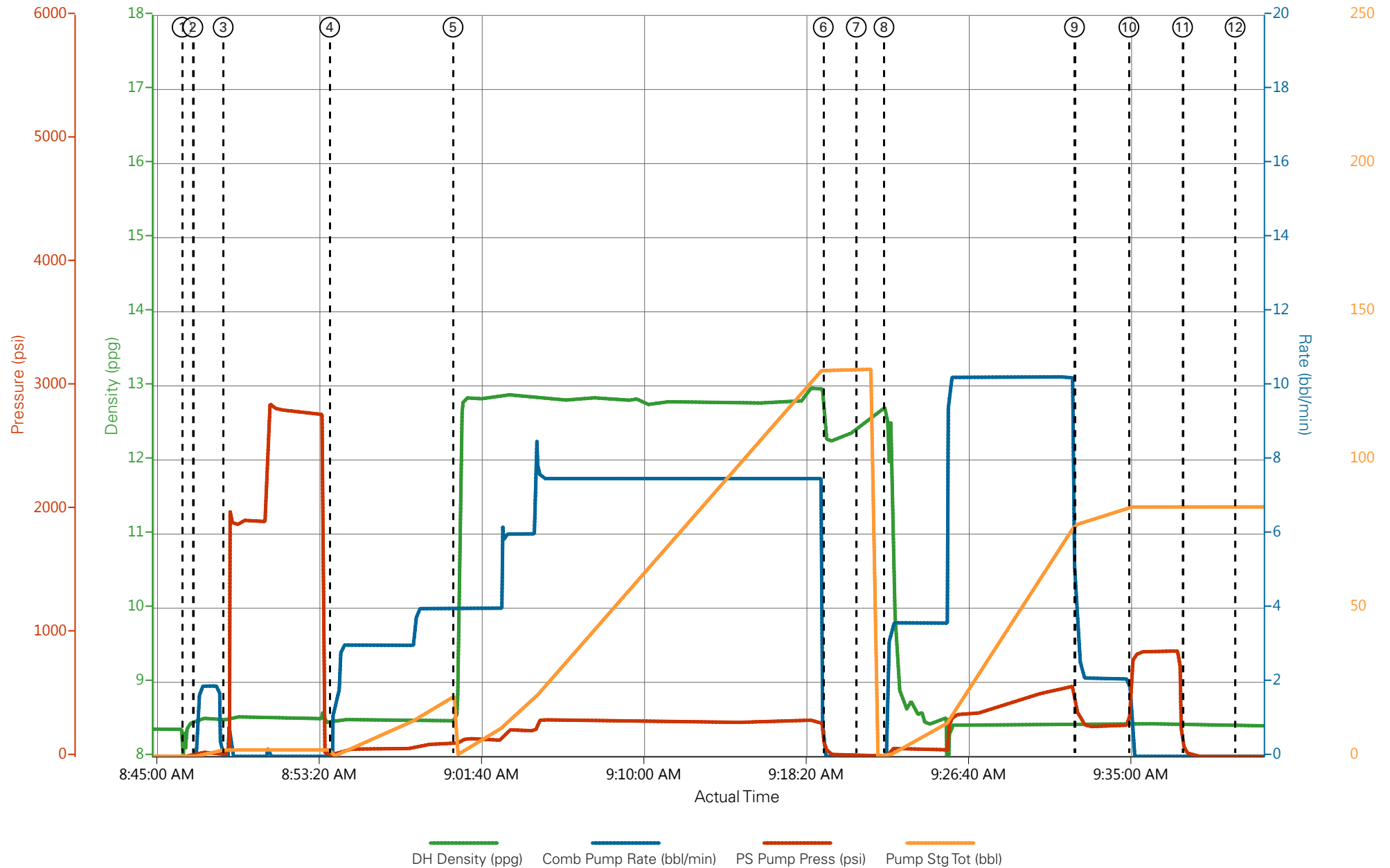
*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721		<b>Ship To #:</b> 3109933		<b>Quote #:</b>		<b>Sales Order #:</b> 900799438	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Vallad, Gary			
<b>Well Name:</b> RWF			<b>Well #:</b> 42-4			<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>				<b>Long:</b>			
<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> ARNOLD, EDWARD			<b>MBU ID Emp #:</b> 439784	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/04/2013 19:00							
Pre-Convoy Safety Meeting	10/04/2013 22:15							Including entire cement crew.
Crew Leave Yard	10/04/2013 22:30							
Arrive At Loc	10/05/2013 00:00							Rig started casing at 0530 on 10-5. Requested on location at 0200
Assessment Of Location Safety Meeting	10/05/2013 07:00							Water; PH 7.5; KCL 250; So4 <200; Fe 0; Calcium 120; Chlorides 0; Temp 45; TDS 310 .
Pre-Rig Up Safety Meeting	10/05/2013 07:15							Including entire cement crew.
Rig-Up Equipment	10/05/2013 07:20							1 Elite # 7; 1 660 bulk truck; 1 hard line to floor; 1 line to upright; 1 line to rig tank. 9.625" compact head.
Rig-Up Completed	10/05/2013 08:20							
Pre-Job Safety Meeting	10/05/2013 08:25							Including everyone on location.
Start Job	10/05/2013 08:46							TD 1145; TP 1131; SJ 47; OH 13 1/2"; Casing 9.625" 32.3# H-40; Mud 9.9 ppg.
Pump Water	10/05/2013 08:46		2	2			34.0	Fill lines with fresh water.
Test Lines	10/05/2013 08:48					2830.0		Good pressure test, no leaks.
Pump Spacer 1	10/05/2013 08:53		4	20			100.0	20 BBL fresh water spacer.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	10/05/2013 09:00		7	122.1			270.0	325 sks Tail Cement, 12.8 ppg, 2.11 cf3, 11.75 gal/sk.
Shutdown	10/05/2013 09:19							
Drop Plug	10/05/2013 09:20							Plug left container.
Pump Displacement	10/05/2013 09:22		10	75.3			570.0	Fresh water displacement.
Slow Rate	10/05/2013 09:32		2	10			250.0	Slow rate last 10 BBL's of displacement prior to bumping the plug.
Bump Plug	10/05/2013 09:34				85.3		853.0	Bumped plug, took 500 PSI over.
Check Floats	10/05/2013 09:37							Floats held, ½ BBL back. 25 BBL.'s good cement to surface.
End Job	10/05/2013 09:40							
Pre-Rig Down Safety Meeting	10/05/2013 09:45							Including entire cement crew.
Rig-Down Equipment	10/05/2013 09:50							
Rig-Down Completed	10/05/2013 10:15							
Pre-Convoy Safety Meeting	10/05/2013 10:20							Including entire cement crew.
Crew Leave Location	10/05/2013 10:30							Crew leave location for Service Center or another location.
Other	10/05/2013 10:30							Thank You for using Halliburton. Ed Arnold and Crew.

# WPX - RWF 42-4 - 9 5/8" SURFACE



- ① Start Job
- ② Prime Pumps
- ③ Test Lines
- ④ Pump Spacer 1
- ⑤ Pump Tail Cement
- ⑥ Shutdown
- ⑦ Drop Plug
- ⑧ Pump Displacement
- ⑨ Slow Rate
- ⑩ Bump Plug
- ⑪ Check Floats
- ⑫ End Job

▼ **Halliburton** | iCem Service®

Created: 2013-10-05 07:43:44 , Version: 1.4.96

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 10/5/2013 7:47:31 AM

Well: RWF 42-4

Representative: MATT HUDSON

Sales Order #: 900799438

ELITE#7: ED ARNOLD/PAUL SALAZAR

# HALLIBURTON

## Water Analysis Report

Company:	WPX	Date:	10/5/2013
Submitted by:	ED ARNOLD	Date Rec.:	10/5/2013
Attention:	JON TROUT	S.O.#	900799438
Lease	RWF	Job Type:	SURFACE
Well #	42-4		

Specific Gravity	MAX	1
pH	8	7.5
Potassium (K)	5000	250 Mg / L
Calcium (Ca)	500	120 Mg / L
Iron (FE2)	300	0 Mg / L
Chlorides (Cl)	3000	0 Mg / L
Sulfates (SO <sub>4</sub> )	1500	<200 Mg / L
Chlorine (Cl <sub>2</sub> )		0 Mg / L
Temp	40-80	40 Deg
Total Dissolved Solids		310 Mg / L

Respectfully: ED ARNOLD

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> 900799438	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/5/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> MATT HUDSON		<b>API / UWI: (leave blank if unknown)</b> AFEYKUW00KKOKNQTA
<b>Well Name:</b> RWF		<b>Well Number:</b> 42-4
<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	10/5/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD ARNOLD (HX46731)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MATT HUDSON
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	10/5/2013

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.	3
<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> MATT HUDSON		<b>API / UWI: (leave blank if unknown)</b> AFEYKUW00KKOKNQTA
<b>Well Name:</b> RWF		<b>Well Number:</b> 42-4
<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	99
<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	99
<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