
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**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						
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						
TOTAL	<i>Total is the sum of each column separately</i>							

Job

Job Times

Formation Name	Job			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

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

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

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 ft3/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		

<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature
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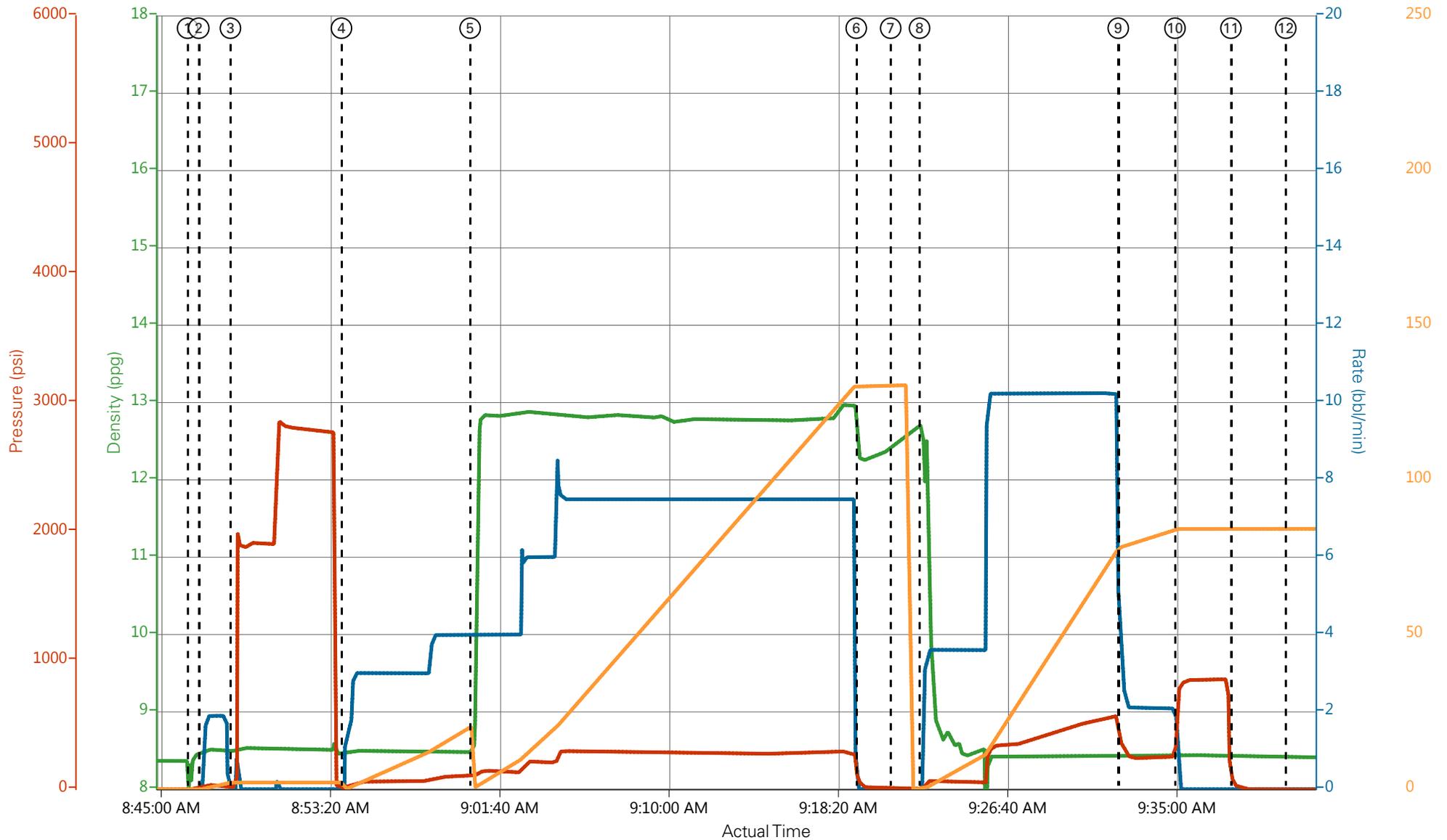
The Road to Excellence Starts with Safety

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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
Legal Description:			
Lat:		Long:	
Contractor: NABORS 574		Rig/Platform Name/Num: NABORS 574	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: ARNOLD, EDWARD	MBU ID Emp #: 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, 1/2 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



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

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

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

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

Sales Order #: 900799438	Line Item: 10	Survey Conducted Date: 10/5/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MATT HUDSON		API / UWI: (leave blank if unknown) AFEYKUW00KKOKNQATAA
Well Name: RWF		Well Number: 42-4
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: 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	

CUSTOMER SIGNATURE

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Customer Representative: MATT HUDSON		API / UWI: (leave blank if unknown) AFEYKUW00KKOKNQATAA
Well Name: RWF		Well Number: 42-4
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	10/5/2013
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	3
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative: MATT HUDSON		API / UWI: (leave blank if unknown) AFEYKUW00KKOKNQATAA
Well Name: RWF		Well Number: 42-4
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	99
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate 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
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0