
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**RWF 11-25
Rulison
Garfield County , Colorado**

**Cement Surface Casing
04-Feb-2014**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123551	Quote #:	Sales Order #: 901090136
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hubbard, Luke	
Well Name: RWF		Well #: 11-25	API/UWI #: 05-045-21967
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Contractor: Cyclone Drilling		Rig/Platform Name/Num: Cyclone 17	
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	12	439784	LAULAINEN, ROGER Edward	12	524413	YENTER, TRAVIS Drake	12	556030

Equipment

HES Unit #	Distance-1 way						
	60 mile	10551730C	60 mile	11139330	60 mile	11259882	60 mile
11808841	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2-4-2014	12	3						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Job			Date	Time	Time Zone		
Formation Depth (MD)	Top	Bottom	Called Out	03 - Feb - 2014	21:30	MST		
Form Type	BHST			On Location	04 - Feb - 2014	01:30	MST	
Job depth MD	1216. ft	Job Depth TVD	1216. ft	Job Started	04 - Feb - 2014	11:27	MST	
Water Depth	Wk Ht Above Floor			4. ft	Job Completed	04 - Feb - 2014	12:23	MST
Perforation Depth (MD)	From	To	Departed Loc	04 - Feb - 2014	13:30	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 Lead	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	8	13.75
	13.75 Gal	FRESH WATER							
3	VersaCem Tail	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	8	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		90.00	bbl	8.34	.0	.0	10	

Calculated Values		Pressures		Volumes					
Displacement	90.5	Shut In: Instant		Lost Returns		Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	32	Actual Displacement	90.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	238.4

Rates									
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	45.7 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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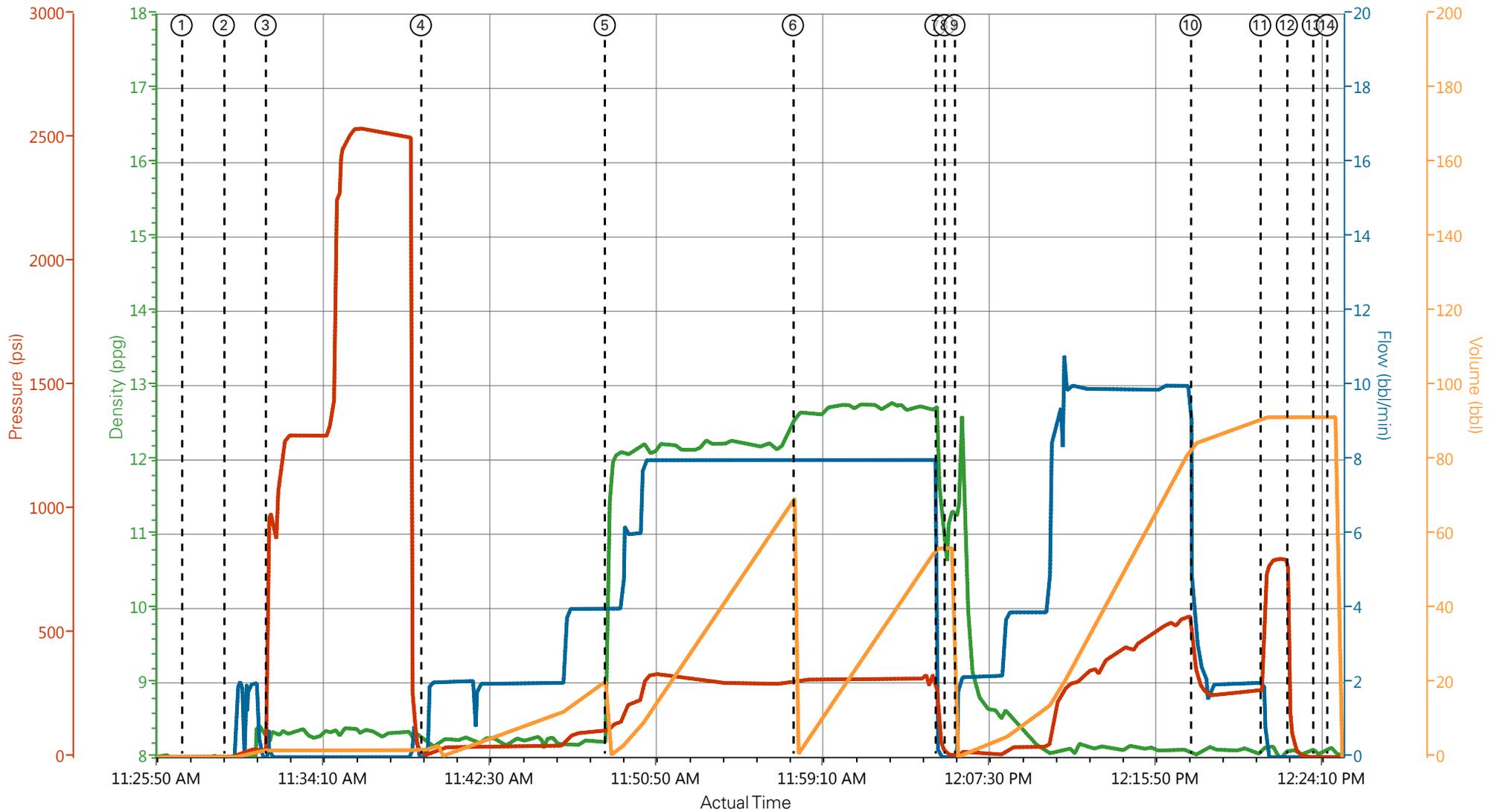
The Road to Excellence Starts with Safety

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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hubbard, Luke	
Well Name: RWF		Well #: 11-25	API/UWI #: 05-045-21967
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Cyclone Drilling		Rig/Platform Name/Num: Cyclone 17	
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	02/03/2014 21:30							
Pre-Convoy Safety Meeting	02/03/2014 22:45							Including entire cement crew.
Crew Leave Yard	02/03/2014 23:00							
Arrive At Loc	02/04/2014 01:30							Rig still drilling. Rig started casing at 0645. Requested on location time was 0300.
Assessment Of Location Safety Meeting	02/04/2014 09:30							Water; PH 7; KCL 400; So4 <200; Fe 0; Calcium 120; Chlorides 0; Temp 45.
Pre-Rig Up Safety Meeting	02/04/2014 10:00							Including entire cement crew.
Rig-Up Equipment	02/04/2014 10:10							1 Elite # 2; 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	02/04/2014 10:55							
Pre-Job Safety Meeting	02/04/2014 11:00							Including everyone on location.
Start Job	02/04/2014 11:27							TD 1216; TP 1196; SJ 45.7; OH 13 1/32"; Casing 9.625" 32.3# H-40; Mud 9.6 ppg.
Pump Water	02/04/2014 11:29		2	2			40.0	Fill lines with fresh water.
Test Lines	02/04/2014 11:31						2580.0	Good pressure test, no leaks.
Pump Spacer 1	02/04/2014 11:39		4	20			103.0	20 BBL fresh water spacer.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	02/04/2014 11:48		7	68.1			304.0	160 sks Lead Cement, 12.3 ppg, 2.38 cf3, 13.77 gal/sk.
Pump Tail Cement	02/04/2014 11:57		7	60.8			298.0	160 sks Tail Cement, 12.8 ppg, 2.11 cf3, 11.77 gal/sk.
Shutdown	02/04/2014 12:04							
Drop Plug	02/04/2014 12:05							Plug left container.
Pump Displacement	02/04/2014 12:05			80.5			580.0	Fresh water displacement.
Slow Rate	02/04/2014 12:14			10			268.0	Slow rate last 10 BBL's of displacement prior to bumping the plug.
Bump Plug	02/04/2014 12:21				90.5		803.0	Bumped plug, took 500 PSI over.
Check Floats	02/04/2014 12:22							Floats held, 1/2 BBL back
End Job	02/04/2014 12:23							
Pre-Rig Down Safety Meeting	02/04/2014 12:30							Including entire cement crew.
Rig-Down Equipment	02/04/2014 12:35							
Rig-Down Completed	02/04/2014 13:15							
Pre-Convoy Safety Meeting	02/04/2014 13:20							Including entire cement crew.
Crew Leave Location	02/04/2014 13:30							Crew leave location for Service Center or another location.
Other	02/04/2014 13:30							Thank You for using Halliburton. Ed Arnold and Crew.

WPX - RWF 11-25 - 9 5/8" SURFACE CASING



DH Density (ppg) 8.08 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 0 Pump Stg Tot (bbl) 0

- ① Start Job 7.93;0;2;0 ④ Pump Spacer 1 8.18;0;10;2 ⑦ Shutdown 11.97;0;112;56.3 ⑩ Slow Rate 8.05;4.5;396;84.1 ⑬ End Job 8.05;0;0;91.5
- ② Prime Pumps 7.91;0;2;0 ⑤ Pump Lead Cement 10.43;4;107;0.1 ⑧ Drop Plug 10.65;0;13;56.3 ⑪ Bump Plug 8.13;1.9;312;91.4 ⑭ Start Job 8.15;0;0;91.5
- ③ Test Lines 8.17;0.2;954;1.9 ⑥ Pump Tail Cement 12.57;8;308;0.1 ⑨ Pump Displacement 11.24;1.8;6;0.1 ⑫ Check Floats 8.1;0;178;91.5

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Created: 2014-02-04 09:17:13, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 2/4/2014 11:04:25 AM

Well: RWF 11-25

Representative: MIKE BRUNK

Sales Order #: 901090136

ELITE #2: ED ARNOLD / ROGER LAULAINEN

HALLIBURTON

Water Analysis Report

Company: WPX Date: 2/4/2014
Submitted by: ED ARNOLD Date Rec.: 2/4/2014
Attention: _____ S.O.# 901090136
Lease RWF Job Type: SURFACE
Well # 11-25

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	45 Deg
Total Dissolved Solids		-- 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

Sales Order #: 901090136	Line Item: 10	Survey Conducted Date: 2/4/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MIKE BRUNK		API / UWI: (leave blank if unknown) 05-045-21967
Well Name: RWF		Well Number: 11-25
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	2/4/2014
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	MIKE BRUNK
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: MIKE BRUNK		API / UWI: (leave blank if unknown) 05-045-21967
Well Name: RWF		Well Number: 11-25
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	2/4/2014
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)	4
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)	1.5
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

Sales Order #: 901090136	Line Item: 10	Survey Conducted Date: 2/4/2014
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Customer Representative: MIKE BRUNK		API / UWI: (leave blank if unknown) 05-045-21967
Well Name: RWF		Well Number: 11-25
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