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# **WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**RWF 522-25  
Rulison  
Garfield County , Colorado**

**Cement Surface Casing**  
**23-Sep-2013**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3107098	Quote #:	Sales Order #: 900761074
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Brandon Haire		
Well Name: RWF	Well #: 522-25	API/UWI #:	
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
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	Srv Supervisor: REEVES, BRANDON	MBU ID Emp #: 287883	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, ADAM S	8.0	456683	REEVES, BRANDON W	8.0	287883	ROMKEE, DALE Alan	8.0	488215

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10784064	60 mile	11006314	60 mile	11583932	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
09/22/2013	3	0	09/23/2013	5	2			
TOTAL			Total is the sum of each column separately					

### Job

Formation Name	Job	Job Times	Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom	Called Out	22 - Sep - 2013	16:50 MST
Form Type	BHST	On Location	22 - Sep - 2013	21:00	MST
Job depth MD	1140. ft	Job Depth TVD	1140. ft	Job Started	23 - Sep - 2013
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	23 - Sep - 2013
Perforation Depth (MD)	From	To	Departed Loc	23 - Sep - 2013	00:00 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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### 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	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8"	1	
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
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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
	1	Fresh Water Spacer		50.00	bbl	8.33	.0	.0	4.0	

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 Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	8.0	13.75	
	13.75 Gal	FRESH WATER								
3	VersaCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	7.0	11.75	
	11.75 Gal	FRESH WATER								
4	Fresh Water Displacement		86.00	bbl	8.33	.0	.0	10.0		
Calculated Values		Pressures		Volumes						
Displacement	86.2	Shut In: Instant		Lost Returns	No	Cement Slurry	127.9	Pad		
Top Of Cement	Surface	5 Min		Cement Returns	20	Actual Displacement	86	Treatment		
Frac Gradient		15 Min		Spacers	50	Load and Breakdown		Total Job		
Rates										
Circulating		Mixing		7-8	Displacement	10	Avg. Job			
Cement Left In Pipe	Amount	45 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*

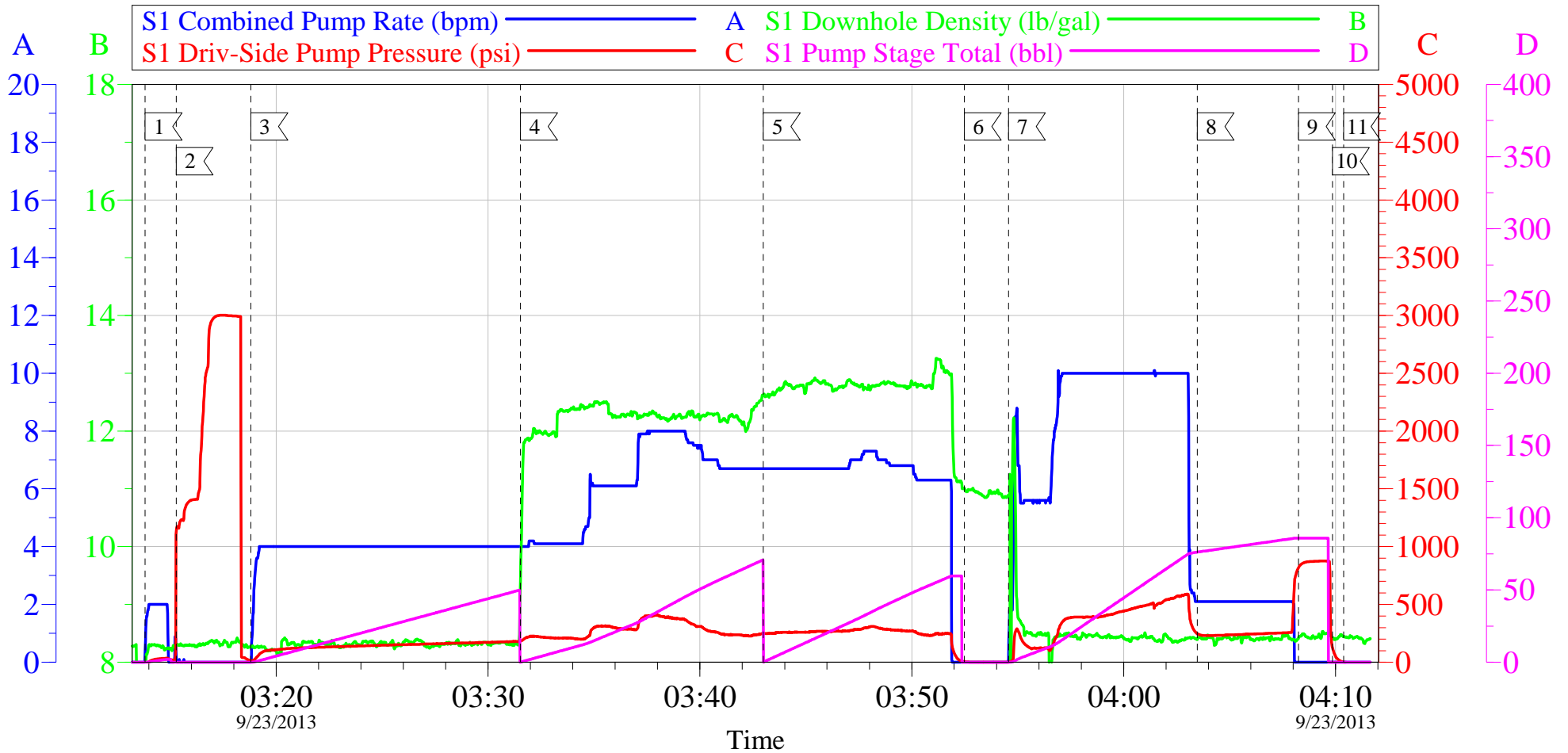
<b>Sold To #:</b> 300721		<b>Ship To #:</b> 3107098		<b>Quote #:</b>		<b>Sales Order #:</b> 900761074	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Brandon Haire			
<b>Well Name:</b> RWF			<b>Well #:</b> 522-25			<b>API/UWI #:</b>	
<b>Field:</b> Rulison		<b>City (SAP):</b> RIFLE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Legal Description:</b>							
<b>Lat:</b>				<b>Long:</b>			
<b>Contractor:</b> 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> REEVES, BRANDON			<b>MBU ID Emp #:</b> 287883	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/22/2013 16:50							
Depart from Service Center or Other Site	09/22/2013 19:00							
Arrive At Loc	09/22/2013 21:00							
Assessment Of Location Safety Meeting	09/23/2013 01:00							
Other	09/23/2013 01:20							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	09/23/2013 01:30							
Rig-Up Equipment	09/23/2013 01:40							
Pre-Job Safety Meeting	09/23/2013 02:50							
Start Job	09/23/2013 03:13							TD-1150' TP-1140' SJ-45' MW-9.5 PPG. HOLE-13 1/2" CASING-9 5/8" 32.3 PPF.
Test Lines	09/23/2013 03:15					3005.0		
Pump Spacer 1	09/23/2013 03:18		4	50			150.0	FRESH WATER SPACER.
Pump Lead Cement	09/23/2013 03:31		8	67.8			415.0	160 SKS. @ 12.3 PPG. 2.38 YIELD 13.75 GAL/SK.
Pump Tail Cement	09/23/2013 03:43		7	60.1			270.0	160 SKS. @ 12.8 PPG. 2.11 YIELD 1.75 GAL/SK.
Drop Top Plug	09/23/2013 03:51							
Pump Displacement	09/23/2013 03:54		10				590.0	FRESH WATER DISPLACEMENT.
Slow Rate	09/23/2013 04:03		2	76			240.0	SLOW RATE TO LAND THE PLUG.

## *Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Bump Plug	09/23/2013 04:08		2	86			275.0	PLUG LANDED AT 275 PSI. PRESSURED UP TO 880 PSI.
Check Floats	09/23/2013 04:10							FLOATS HELD.
End Job	09/23/2013 04:11							THE WELL WAS CIRCULATED BEFORE STARTING THE JOB. GOOD CIRCULATION THROUGHOUT THE JOB. THE PIPE WAS NOT RECIPROCATED. CIRCULATED 20 BBLS. OF CEMENT TO SURFACE.
Other	09/23/2013 04:12							THANK YOU FOR USING HALLIBURTON CEMENTING. BRANDON REEVES AND CREW.

WPX ENERGY RWF 522-25  
9 5/8" SURFACE



Local Event Log														
Intersection				SDPP	Intersection				SDPP	Intersection				SDPP
1	START JOB	03:13:49	-6.351	2	TEST LINES	03:15:17	1123	3	PUMP H2O SPACER	03:18:48	13.66			
4	PUMP LEAD CEMENT	03:31:32	182.3	5	PUMP TAIL CEMENT	03:42:59	249.1	6	DROP TOP PLUG	03:52:29	4.456			
7	PUMP DISPLACEMENT	03:54:34	0.385	8	SLOW RATE	04:03:28	246.9	9	LAND PLUG	04:08:15	816.3			
10	CHECK FLOATS	04:09:51	126.2	11	END JOB	04:10:22	1.527							

Customer: WPX ENERGY  
Well Description: RWF 522-25  
Supervisor: BRANDON REEVES

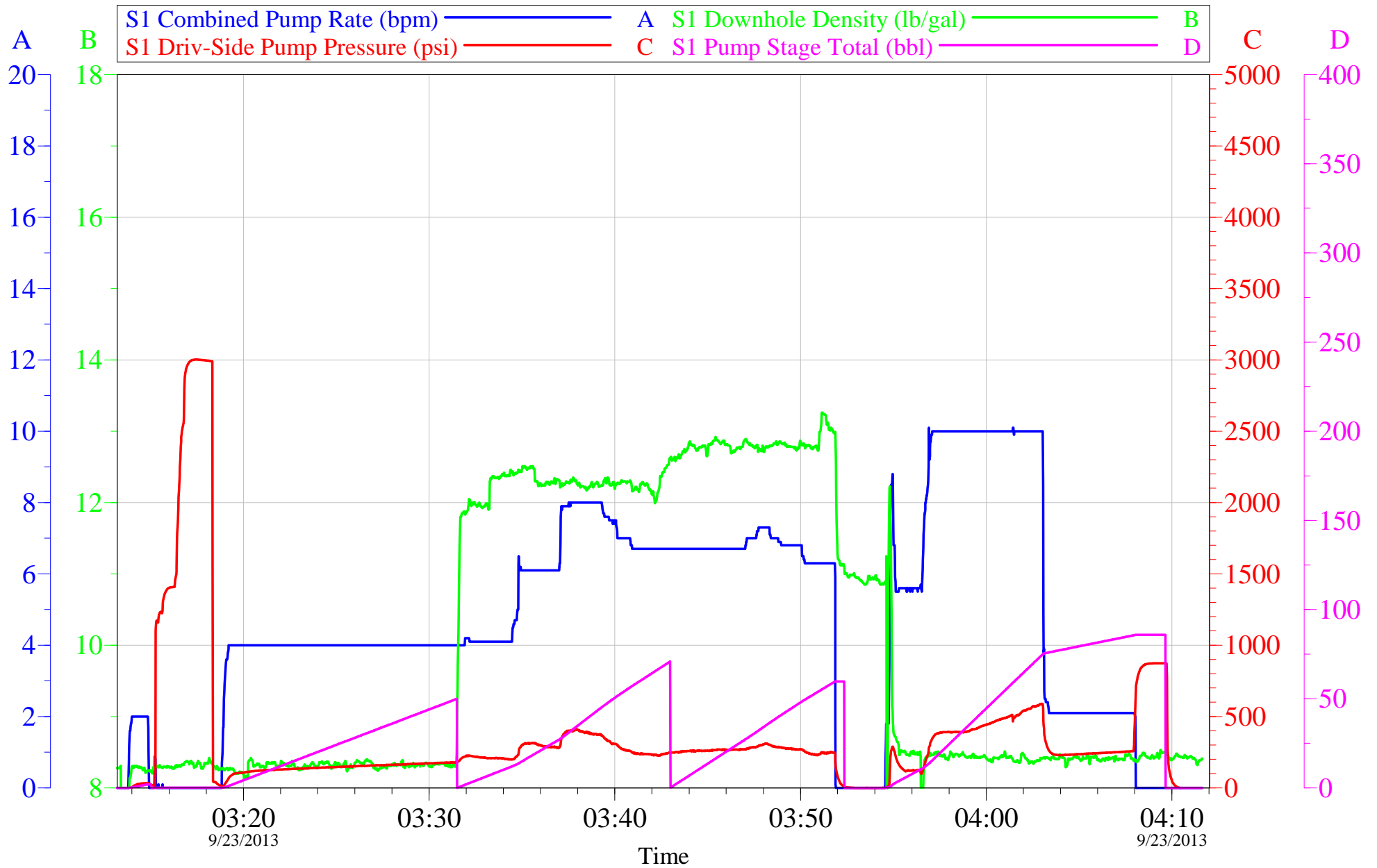
Job Date: 23-Sep-2013  
Job Type: 9 5/8" SURFACE  
Compant Rep: BRANDON HAIRE

Sales Order #: 900761074  
ADC Used: YES  
Elite/Operator: 4/ADAM ANDERSON

OptiCem v6.4.10  
23-Sep-13 04:15

# WPX ENERGY RWF 522-25

## 9 5/8" SURFACE



Customer:	WPX ENERGY	Job Date:	23-Sep-2013	Sales Order #:	900761074
Well Description:	RWF 522-25	Job Type:	9 5/8" SURFACE	ADC Used:	YES
Supervisor:	BRANDON REEVES	Compant Rep:	BRANDON HAIRE	Elite/Operator:	4/ADAM ANDERSON

OptiCem v6.4.10  
23-Sep-13 04:15

<b>Sales Order #:</b> 900761074	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/23/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> AFEY0B0Z3KK2ZLPVAAA
<b>Well Name:</b> RWF		<b>Well Number:</b> 522-25
<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	9/23/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	BRANDON REEVES (HBT9414)
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

<b>CUSTOMER SIGNATURE</b>
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<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> AFEY0B0Z3KK2ZLPVAAA
<b>Well Name:</b> RWF		<b>Well Number:</b> 522-25
<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

*KEY PERFORMANCE INDICATORS*

General	
<b>Survey Conducted Date</b>	9/23/2013
The date the survey was conducted	

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.	2
<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	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

<b>Sales Order #:</b> 900761074	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/23/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> AFEY0B0Z3KK2ZLPVAAA
<b>Well Name:</b> RWF		<b>Well Number:</b> 522-25
<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	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