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**WPX ENERGY ROCKY MOUNTAIN**

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**RWF 512-36  
Rulison  
Garfield County , Colorado**

**Cement Surface Casing**  
02-Feb-2012

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 2901731	<b>Quote #:</b>	<b>Sales Order #:</b> 9198145
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> Hartl, Al	
<b>Well Name:</b> RWF	<b>Well #:</b> 512-36	<b>API/UWI #:</b> 05-045-20772	
<b>Field:</b> Rulison	<b>City (SAP):</b> RIFLE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.485 deg. OR N 39 deg. 29 min. 6.608 secs.		<b>Long:</b> W 107.84 deg. OR W -108 deg. 9 min. 36.112 secs.	
<b>Contractor:</b> NABORS 576		<b>Rig/Platform Name/Num:</b> NABORS 576	
<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> JAMISON, PRICE	<b>MBU ID Emp #:</b> 229155

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEUSSEN, EDWARD Eric	3.5	485182	HYDE, DUSTIN C	3.5	453940	JAMISON, PRICE W	3.5	229155
VANALSTYNE, TROY L	3.5	420256						

**Equipment**

HES Unit #	Distance-1 way						
10995027	60 mile	11021972	60 mile	11021972	60 mile	11027039	60 mile
11583934	60 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2/2/12	3.5	1						

**TOTAL** Total is the sum of each column separately

**Job**

**Job Times**

Formation Name	Date	Time	Time Zone
<b>Formation Depth (MD) Top</b>	<b>Bottom</b>	<b>Called Out</b>	02 - Feb - 2012 00:10 MST
<b>Form Type</b>	BHST	<b>On Location</b>	02 - Feb - 2012 04:00 MST
<b>Job depth MD</b>	1161.5 ft	<b>Job Depth TVD</b>	1175. ft 02 - Feb - 2012 05:18 MST
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	3. ft 02 - Feb - 2012 06:11 MST
<b>Perforation Depth (MD) From</b>	<b>To</b>	<b>Departed Loc</b>	02 - Feb - 2012 07:30 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
OPEN HOLE				13.5				.	1175.	.	1175.
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1161.5	.	1161.5

**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		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		20.00	bbl	8.4	.0	.0	6.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.3	2.38	13.75	8.0	13.75
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8.0	11.75
4	Displacement Fluid		88.00	bbl	8.4	.0	.0	10.0	
Calculated Values		Pressures			Volumes				
Displacement	88	Shut In: Instant		Lost Returns	NO	Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	18	Actual Displacement	88	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	236
Rates									
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	42.8 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature					

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<b>Well Name:</b> RWF		<b>Well #:</b> 512-36	<b>API/UWI #:</b> 05-045-20772
<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 39.485 deg. OR N 39 deg. 29 min. 6.608 secs.		<b>Long:</b> W 107.84 deg. OR W -108 deg. 9 min. 36.112 secs.	
<b>Contractor:</b> NABORS 576		<b>Rig/Platform Name/Num:</b> NABORS 576	
<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> JAMISON, PRICE	<b>MBU ID Emp #:</b> 229155

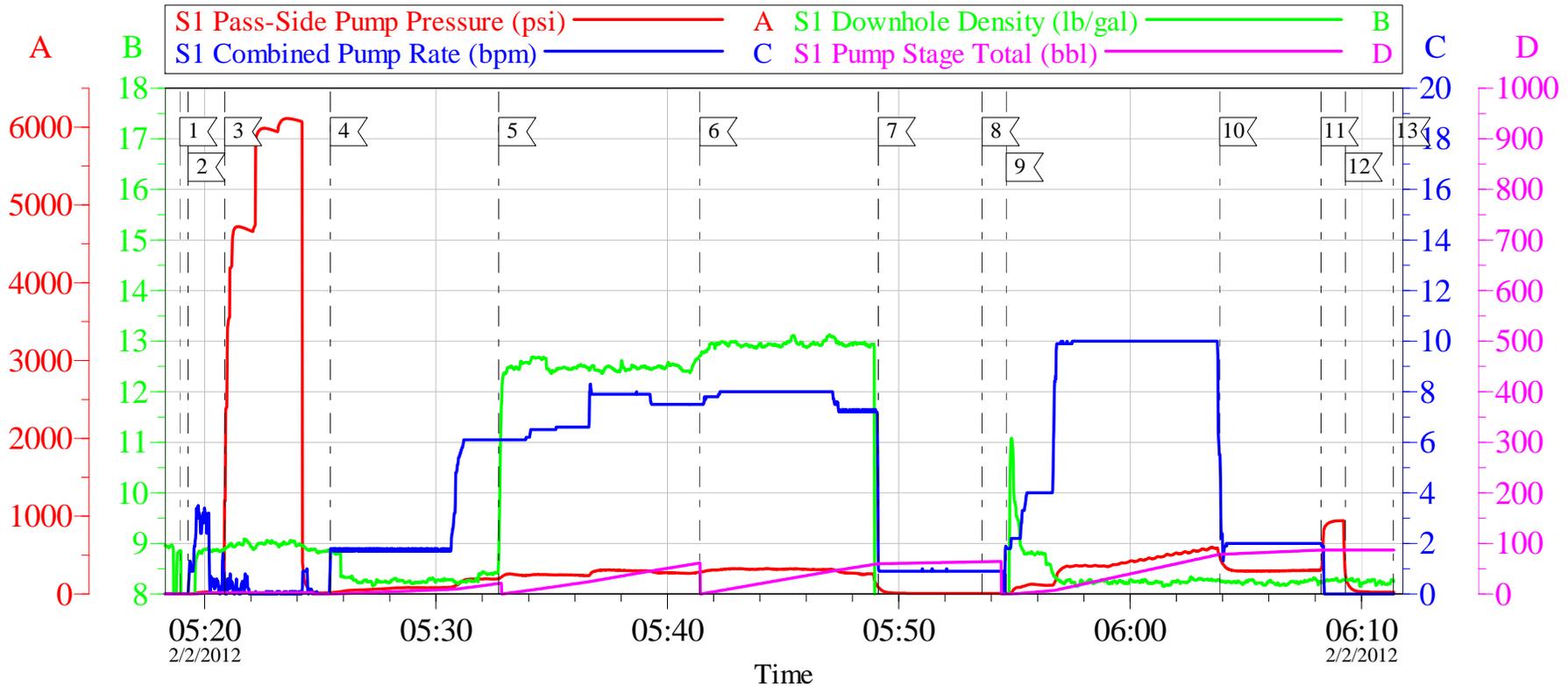
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/02/2012 00:10							TD 1175 HOLE SIZE 13.5 TP 1161.5 CASING 9.625 32.3 # H-40 SHOE JOINT 42.8
Depart Yard Safety Meeting	02/02/2012 01:45							
Crew Leave Yard	02/02/2012 02:00							
Arrive At Loc	02/02/2012 04:00							
Assessment Of Location Safety Meeting	02/02/2012 04:15							
Pre-Rig Up Safety Meeting	02/02/2012 04:20							
Pre-Job Safety Meeting	02/02/2012 04:50							
Start Job	02/02/2012 05:18							
Prime Pumps	02/02/2012 05:19		2	2			27.0	FRESH WATER
Test Lines	02/02/2012 05:20						5000. 0	
Pump Spacer 1	02/02/2012 05:25		6	20			195.0	FRESH WATER
Pump Lead Cement	02/02/2012 05:32		8	67.8			311.0	MIXED @ 12.3 PPG YIELD 2.38 WAT/REQ 13.77 160 SKS
Pump Tail Cement	02/02/2012 05:41		8	60.1			324.0	MIXED @ 12.8 PPG YIELD 2.11 WAT/REQ 11.75 160 SKS
Shutdown	02/02/2012 05:49							
Drop Plug	02/02/2012 05:53							
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	02/02/2012 05:54		10					FRESH WATER

# HALLIBURTON

Slow Rate	02/02/2012 06:03		2	78			621.0	
Bump Plug	02/02/2012 06:08		2	88			300.0	PRESSURE UP TO 940 PSI
Check Floats	02/02/2012 06:09							FLOATS HELD
End Job	02/02/2012 06:11							CEMENT BACK TO SURFACE 18 BBLs
Post-Job Safety Meeting (Pre Rig-Down)	02/02/2012 06:20							
Depart Location Safety Meeting	02/02/2012 07:20							CASING WAS NOT MOVED THROUGHOUT JOB
Crew Leave Location	02/02/2012 07:30							THANKS FOR USING HALLIBURTON BILL JAMISON & CREW

# WPX RWF 512-36

9.625 SURFACE CASING



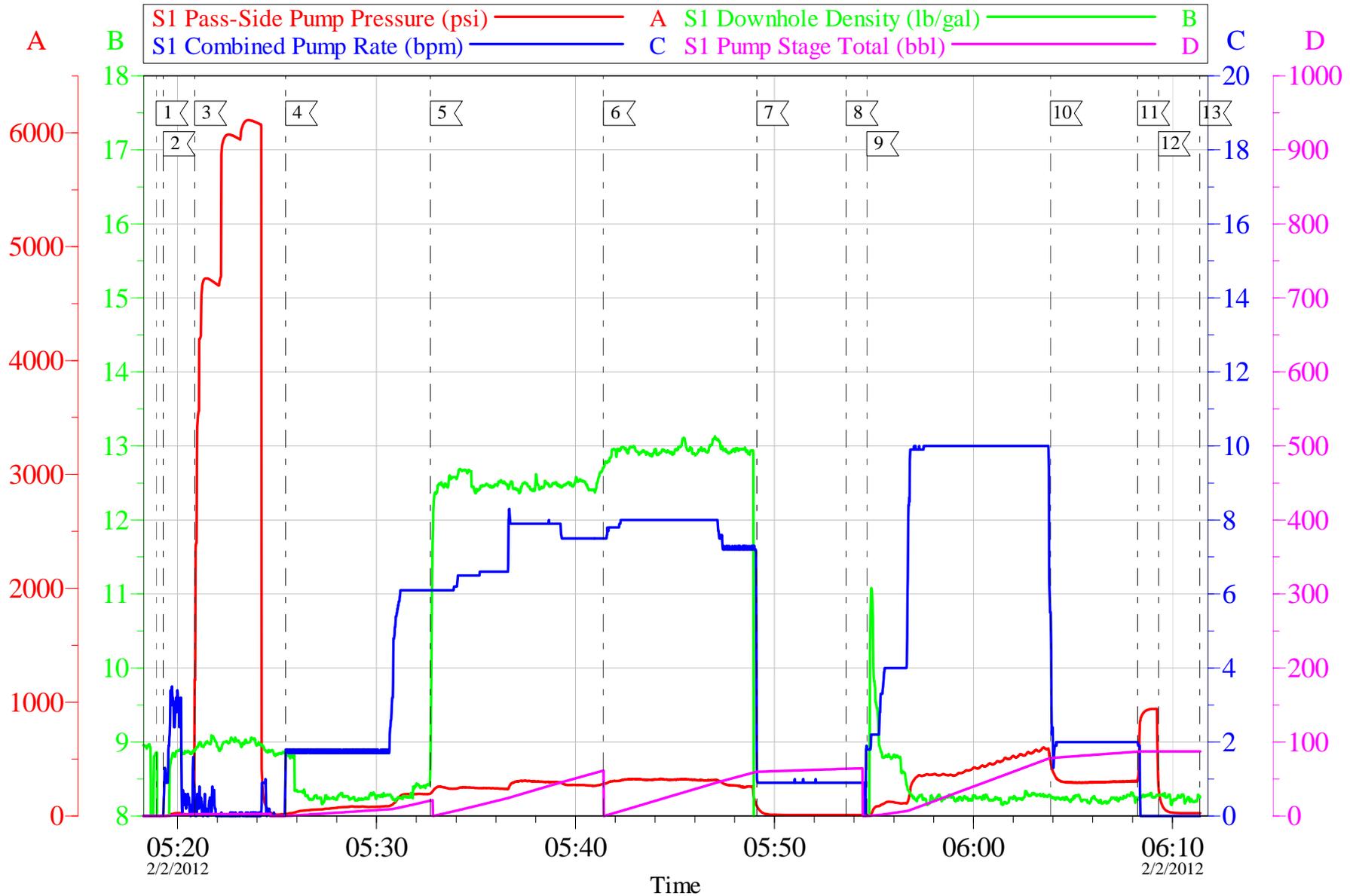
Local Event Log					
1	START JOB	05:18:55	2	PRIME LINES	05:19:17
3	TEST LINES	05:20:52	4	START FRESH WATER SPACER	05:25:26
5	START LEAD CEMENT	05:32:43	6	START TAIL CEMENT	05:41:24
7	SHUT DOWN	05:49:07	8	DROP PLUG	05:53:36
9	START DISPLACEMENT	05:54:39	10	SLOW RATE	06:03:52
11	BUMP PLUG	06:08:16	12	CHECK FLOATS	06:09:18
13	END JOB	06:11:22			

Customer: WPX	Job Date: 02-Feb-2012	Sales Order #: 9198145
Well Description: RWF 512-36	Job Type: CEMENT	ADC Used: YES
Company Rep: AL HARTL	Cement Supervisor: BILL JAMISON	Elite # 3 ED DEUSSEN

OptiCem v6.4.10  
02-Feb-12 06:47

# WPX RWF 512-36

9.625 SURFACE CASING



Customer: WPX	Job Date: 02-Feb-2012	Sales Order #: 9198145
Well Description: RWF 512-36	Job Type: CEMENT	ADC Used: YES
Company Rep: AL HARTL	Cement Supervisor: BILL JAMISON	Elite # 3 ED DEUSSEN

OptiCem v6.4.10  
02-Feb-12 06:47

# HALLIBURTON

## Water Analysis Report

Company: WILLIAMS PRODUCTION

Date: 2/2/2012

Submitted by: BILL JAMISON

Date Rec.: 2/2/2012

Attention: JOHN TROUT

S.O.# 9198145

Lease RWF

Job Type: 9 5/8" SURFACE

Well # 512-36

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6.8</b>
Potassium (K)	<i>5000</i>	<b>450 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>250 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>3 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>-200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>68 Deg</b>
Total Dissolved Solids		<b>210 Mg / L</b>

Respectfully: BILL JAMISON

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

<b>Sales Order #:</b> 9198145	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 2/2/2012
<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> 05-045-20772
<b>Well Name:</b> RWF		<b>Well Number:</b> 512-36
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<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	2/2/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	PRICE JAMISON (HAL9235)
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	NONE

<b>CUSTOMER SIGNATURE</b>
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<b>Customer Representative:</b> AL HARTL		<b>API / UWI: (leave blank if unknown)</b> 05-045-20772
<b>Well Name:</b> RWF		<b>Well Number:</b> 512-36
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	2/2/2012
The date the survey was conducted	

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

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<b>H2S Present:</b> No	<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	98
<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	98
<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