

---

**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

---

**RWF 342-4  
Rulison  
Garfield County , Colorado**

**Cement Surface Casing  
16-Sep-2013**

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 3099709	<b>Quote #:</b>	<b>Sales Order #:</b> 900736306
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> HUTSON, MATT	
<b>Well Name:</b> RWF		<b>Well #:</b> 342-4	<b>API/UWI #:</b> 05-045-22084
<b>Field:</b> Rulison	<b>City (SAP):</b> RIFLE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.473 deg. OR N 39 deg. 28 min. 24.1 secs.		<b>Long:</b> W 107.889 deg. OR W -108 deg. 6 min. 40.021 secs.	
<b>Contractor:</b> NABORS 574		<b>Rig/Platform Name/Num:</b> NABORS 574	
<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> KEANE, JOHN	<b>MBU ID Emp #:</b> 486519

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	11	371353	JENSEN, SHANE	11	441759	KEANE, JOHN Donovon	11	486519
WARDELL, STEVEN	11	549567						

**Equipment**

HES Unit #	Distance-1 way						
10567589C	60 mile	10784080	60 mile	11259886	60 mile	11360883	60 mile
11808829	60 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
09/15/2013	7.5	0	09/16/2013	3	1.5			
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					15 - Sep - 2013	11:30	MST
<b>Form Type</b>			<b>BHST</b>	<b>On Location</b>	15 - Sep - 2013	16:30	MST
<b>Job depth MD</b>	2474. ft		<b>Job Depth TVD</b>	2474. ft	16 - Sep - 2013	00:11	MST
<b>Water Depth</b>			<b>Wk Ht Above Floor</b>	4. ft	16 - Sep - 2013	01:37	MST
<b>Perforation Depth (MD)</b>	<b>From</b>		<b>To</b>		<b>Departed Loc</b>	09 - Sep - 2013	03:30

**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				.	2500.	.	2500.
9.625 IN SURFACE CASING	Mixed		9.625	9.001	32.3		H-40	.	2477.	.	2477.

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
<b>Guide Shoe</b>					<b>Packer</b>					<b>Top Plug</b>	9.625	1	HES
<b>Float Shoe</b>					<b>Bridge Plug</b>					<b>Bottom Plug</b>			
<b>Float Collar</b>					<b>Retainer</b>					<b>SSR plug set</b>			
<b>Insert Float</b>										<b>Plug Container</b>	9.625	1	HES
<b>Stage Tool</b>										<b>Centralizers</b>			

**Miscellaneous Materials**

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
<b>Treatment Fld</b>	<b>Conc</b>	<b>Inhibitor</b>	<b>Conc</b>	<b>Sand Type</b>	<b>Size</b>	<b>Qty</b>	<b>%</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 lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Fresh Water Spacer		40.00	bbl	.	.0	.0	4		
2	VersaCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	425.0	sacks	12.3	2.38	13.75	8	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	8	11.75	
11.75 Gal		FRESH WATER								
4	Fresh Water Displacement		192.00	bbl	.	.0	.0	10		
Calculated Values			Pressures			Volumes				
Displacement	191.9	Shut In: Instant		Lost Returns		Cement Slurry		Pad		
Top Of Cement	SURF	5 Min		Cement Returns	20	Actual Displacement	191.9	Treatment		
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	472	
Rates										
Circulating	14	Mixing	8	Displacement	10	Avg. Job	8			
Cement Left In Pipe	Amount	38.5 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> 3099709	<b>Quote #:</b>	<b>Sales Order #:</b> 900736306
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> HUTSON, MATT	
<b>Well Name:</b> RWF		<b>Well #:</b> 342-4	<b>API/UWI #:</b> 05-045-22084
<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 39.473 deg. OR N 39 deg. 28 min. 24.1 secs.		<b>Long:</b> W 107.889 deg. OR W -108 deg. 6 min. 40.021 secs.	
<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>Srvc Supervisor:</b> KEANE, JOHN	<b>MBU ID Emp #:</b> 486519

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/15/2013 11:30							
Pre-Convoy Safety Meeting	09/15/2013 14:45							WITH HES
Arrive At Loc	09/15/2013 16:30							RIG RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	09/15/2013 16:45							WITH HES
Rig-Up Equipment	09/15/2013 22:15							
Pre-Job Safety Meeting	09/15/2013 23:50							WITH HES, WPX, AND NABORS 574
Start Job	09/16/2013 00:11							TP 2477 FT, TD 2500 FT, CSG 9.625 IN 32.3 LB/FT H-40, HOLE 13.5 IN, SHOE 38.50 FT, MWT 10.5 LB/GAL, RIG CIRCULATING AT 14 BBL/MIN, PV/YP 36/29
Pump Water	09/16/2013 00:13		2	2			175.0	FILL LINES
Test Lines	09/16/2013 00:15							LOW TEST AT 1730 PSI, HIGH TEST AT 3594 PSI, PRESSURE HOLDING
Pump Spacer	09/16/2013 00:19		4	40			250.0	FRESH WATER SPACER
Pump Lead Cement	09/16/2013 00:29		8	180.1			308.0	MIXED AT 12.3 LB/GAL, 425 SKS, 2.38 FT <sup>3</sup> /SK, 13.75 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To # : 300721

Ship To # :3099709

Quote # :

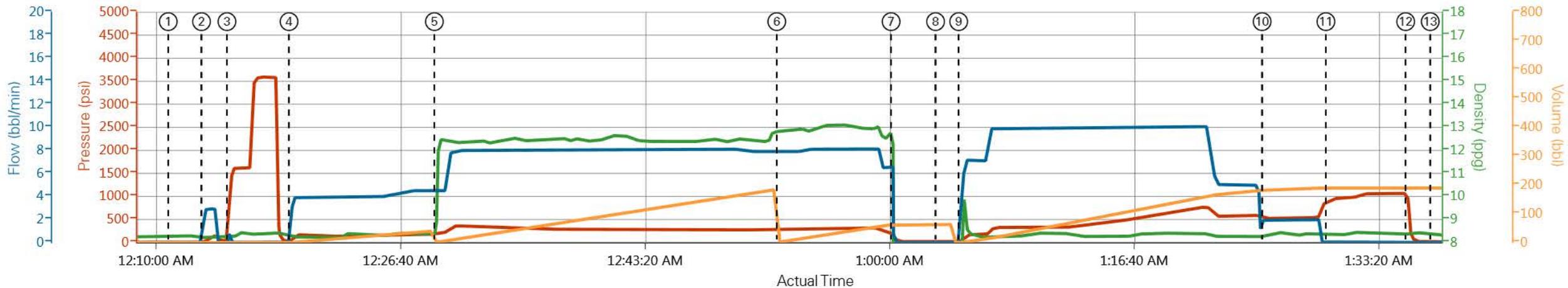
Sales Order # : 900736306

SUMMIT Version: 7.3.0106

Monday, January 06, 2014 04:33:00

Pump Tail Cement	09/16/2013 00:52		8	60.1			290.0	MIXED AT 12.8 LB/GAL, 160 SKS, 2.11 FT3/SK, 11.75 GAL/SK, DENSITY VERIFIE USING PRESSURIZED MUD SCALES
Shutdown	09/16/2013 01:00						100.0	
Drop Plug	09/16/2013 01:03							PLUG LAUNCHED
Pump Displacement	09/16/2013 01:04		10	182			727.0	FRESH WATER
Slow Rate	09/16/2013 01:25		2	10			530.0	SLOWED AT 182 BBL
Bump Plug	09/16/2013 01:29		2				530.0	PLUG BUMPED AT CALCULATED DISPLACEMENT
Check Floats	09/16/2013 01:35						1030.0	FLOATS HOLDING, 1 BBL RETURNED TO THE TRUCK
End Job	09/16/2013 01:37							GOOD CIRCULATION THROUGHOUT THE JOB, 20 BBL CEMENT CIRCULATED TO SURFACE, NO DERRICK CHARGE, 2 ADD HOURS CHARGED, RIG USED 40 LBS OF SUGAR, PIPE WAS STATIC THROUGHOUT THE JOB
Post-Job Safety Meeting (Pre Rig-Down)	09/16/2013 02:00							WITH HES
Rig-Down Equipment	09/16/2013 02:15							
Pre-Convoy Safety Meeting	09/16/2013 03:15							WITH HES
Crew Leave Location	09/16/2013 03:30							
Comment	09/16/2013 03:31							THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW
Pre-Rig Up Safety Meeting	09/16/2013 22:00							WITH HES

# WPX - RWF-342-4 - 9.625 IN SURFACE



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

- ① Start Job 3;8.23;0;0
- ② Fill Lines 20;8.13;2.9;0.3
- ③ Test Lines 1192;8.26;0;2.6
- ④ Fresh Water 35;8.28;3.1;0.2
- ⑤ Pump Lead Cement 188;11.2;4.5;1.2
- ⑥ Pump Tail Cement 284;12.82;7.9;1.7
- ⑦ Shutdown 105;0.98;0;62.6
- ⑧ Drop Plug 18;-0.09;0;62.6
- ⑨ Pump Displacement 25;8.08;3.6;0.5
- ⑩ Slow Rate 526;8.29;2;181.6
- ⑪ Bump Plug 890;8.36;0.3;189.3
- ⑫ Check Floats 705;8.43;0;189.4
- ⑬ End Job 15;8.34;0;189.4

**HALLIBURTON** | iCem® Service

Created: 2013-09-15 20:25:44, Version: 2.0.606

[Edit](#)

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 9/15/2013 10:46:17 PM

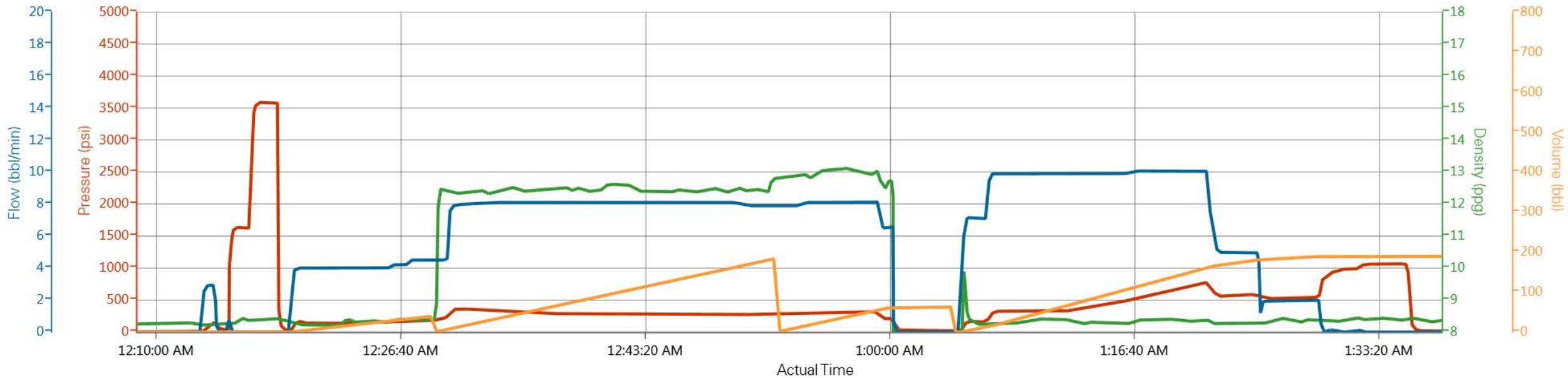
Well: RWF-342-4

Representative: MATT HUTSON

Sales Order #: 900736306

ELITE 3: JOHN KEANE / BRENT BANKS

# WPX - RWF-342-4 - 9.625 IN SURFACE



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

**HALLIBURTON** | iCem® Service

Created: 2013-09-15 20:25:44, Version: 2.0.606

[Edit](#)

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 9/15/2013 10:46:17 PM

Well: RWF-342-4

Representative: MATT HUTSON

Sales Order #: 900736306

ELITE 3: JOHN KEANE / BRENT BANKS

# HALLIBURTON

## Water Analysis Report

Company: WPX

Date: 9/15/2013

Submitted by: JOHN KEANE

Date Rec.: 9/15/2013

Attention: CHUCK ROSS

S.O.# 90073606

Lease RWF

Job Type: SURFACE

Well # 342-4

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7.5</b>
Potassium (K)	<i>5000</i>	<b>0 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>400 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>500 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>62 Deg</b>
Total Dissolved Solids		<b>410 Mg / L</b>

Respectfully: JOHN KEANE

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

<b>Sales Order #:</b> 900736306	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/16/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> MATT HUTSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-22084
<b>Well Name:</b> RWF		<b>Well Number:</b> 342-4
<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	9/16/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JOHN KEANE (HB58526)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MATT HUTSON
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>
---------------------------

<b>Sales Order #:</b> 900736306	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/16/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> MATT HUTSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-22084
<b>Well Name:</b> RWF		<b>Well Number:</b> 342-4
<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

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	9/16/2013
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>	Vertical
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>	4
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>	2
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>	6
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

<b>Sales Order #:</b> 900736306	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/16/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> MATT HUTSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-22084
<b>Well Name:</b> RWF		<b>Well Number:</b> 342-4
<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	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	93
<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