HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RWF 324-25
RULISON
Garfield County , Colorado

Cement Surface Casing

01-Jan-2014

Post Job Report

SUMMIT Version: 7.3.0109 Wednesday, January 15, 2014 09:21:00

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 3123569	**Quote #:**	**Sales Order #:** 901010585
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:**	
Well Name: RWF	**Well #:** 324-25		**API/UWI #:**
Field: RULISON	**City (SAP):** RIFLE	**County/Parish:** Garfield	**State:** Colorado
Contractor: NABORS	**Rig/Platform Name/Num:** 577		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: MAYO, MARK	**Srvc Supervisor:** CASTILLO, FRANCISCO	**MBU ID Emp #:** 513620	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CASTILLO, FRANCISCO P	6	513620	HYDE, DUSTIN C	6	453940	SINCLAIR, DAN J	6	338784
WILSON, BENJAMIN Wallace	6	533647						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10297346	60 mile	10998054	60 mile	11259884	60 mile		

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
1/1/14	6	1						
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name			
Formation Depth (MD)	**Top** SURFACE	**Bottom**	**1145**
Form Type		**BHST**	
Job depth MD	1155. ft	**Job Depth TVD**	1155. ft
Water Depth		**Wk Ht Above Floor**	3. ft
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	01 - Jan - 2014	00:30	MST
On Location	01 - Jan - 2014	05:00	MST
Job Started	01 - Jan - 2014	08:09	MST
Job Completed	01 - Jan - 2014	09:06	MST
Departed Loc	01 - Jan - 2014	11:00	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

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	9.625	1	WTF	1145	**Packer**					**Top Plug**	9.625	1	HES
Float Shoe					**Bridge Plug**					**Bottom Plug**			
Float Collar	9.626	1	WTF	1100	**Retainer**					**SSR plug set**			
Insert Float										**Plug Container**	9.625	1	HES
Stage Tool										**Centralizers**	9.625	8	WTF

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

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Cementing Job Summary

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
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	4	
2	VariCem GJ! Lead Cement	VARICEM (TM) CEMENT (452009)	146.0	sacks	12.3	2.38	13.75	7	13.75
	13.75 Gal	FRESH WATER							
3	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	7	11.75
	11.75 Gal	FRESH WATER							
4	Fresh Water Displacement		86.00	bbl	.	.0	.0	10	

Calculated Values		Pressures		Volumes					
Displacement	86	**Shut In: Instant**		**Lost Returns**	NONE	*Cement Slurry*	122	**Pad**	
Top Of Cement	SURFACE	**5 Min**		**Cement Returns**	20	**Actual Displacement**		**Treatment**	
Frac Gradient		**15 Min**		**Spacers**	20	**Load and Breakdown**		**Total Job**	**229**

Rates							
Circulating	*RIG*	*Mixing*	7	*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***

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Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 3123569	**Quote #:**	**Sales Order #:** 901010585
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:**	
Well Name: RWF	**Well #:** 324-25		**API/UWI #:**
Field: RULISON	**City (SAP):** RIFLE	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat:		**Long:**	
Contractor: NABORS	**Rig/Platform Name/Num:** 577		
Job Purpose: Cement Surface Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: MAYO, MARK	**Srvc Supervisor:** CASTILLO, FRANCISCO		**MBU ID Emp #:** 513620

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl Stage	Volume bbl Total	Pressure psig Tubing	Pressure psig Casing	Comments
Call Out	01/01/2014 00:30							ON LOCATION AT05:30 HRS
Pre-Convoy Safety Meeting	01/01/2014 02:50							ALL HES PERSONEL
Crew Leave Yard	01/01/2014 03:00							
Arrive At Loc	01/01/2014 05:00							RIG WAS STILL RUNNING CASING/LANDED CASING 07:00 AM/CIRCULATED WELL FOR 1 HR
Assessment Of Location Safety Meeting	01/01/2014 05:30							ALL HES PERSONEL
Rig-Up Equipment	01/01/2014 06:00							1-ELITE, 1-660 BULK TRUCKS, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH
Rig-Up Completed	01/01/2014 07:00							
Pre-Job Safety Meeting	01/01/2014 07:55							ALL HES PERSONEL AND RIG CREW
Start Job	01/01/2014 08:09							TD-1155', OH-13.5", TP-1145', SJ-45', FC-1100', CSG-9.625", 32.3#, H-40, MUD 10.3 PPG, VISC-70
Pump Water	01/01/2014 08:10		2	2			40.0	FILL LINES
Pressure Test	01/01/2014 08:13		0.2	0.2				STALL OUT TEST WITH 2214 PSI
Pressure Test	01/01/2014 08:15		0.2	0.2				PRESSURE TEST LINES WITH 4000 PSI

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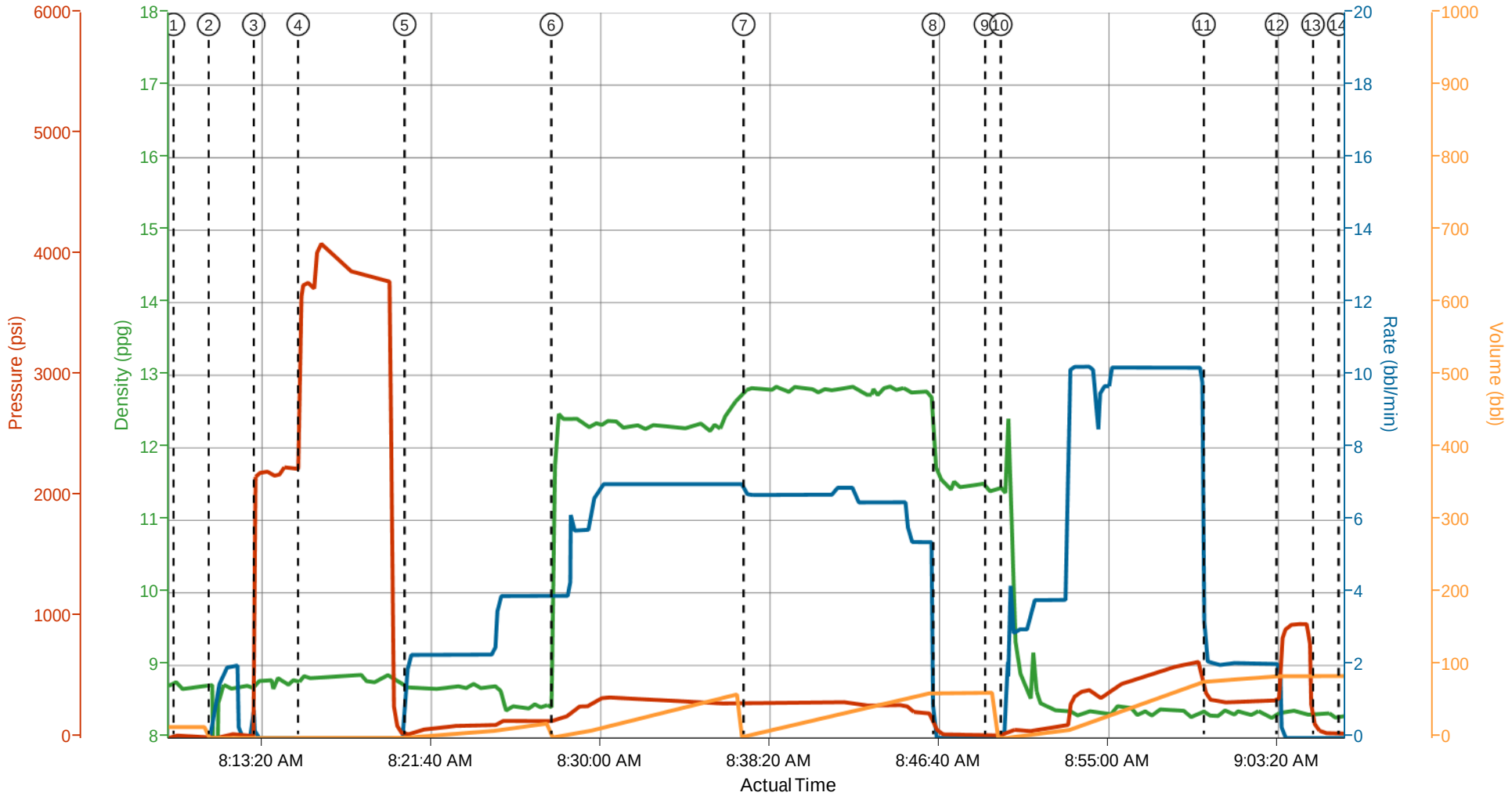
Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl Stage	Volume bbl Total	Pressure psig Tubing	Pressure psig Casing	Comments
Pump Spacer	01/01/2014 08:20		4	20			138.0	FRESH WATER
Pump Lead Cement	01/01/2014 08:27		7	61.8			393.0	146 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK, SETUP TIME 2:58 HRS AT 70 BC
Pump Tail Cement	01/01/2014 08:37		7	60			387.0	160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK, SETUP TIME 1:51 HRS AT 70 BC
Shutdown	01/01/2014 08:46							
Drop Plug	01/01/2014 08:49							
Pump Displacement	01/01/2014 08:49		10	76.5			636.0	
Slow Rate	01/01/2014 08:59		2	10			313.0	
Bump Plug	01/01/2014 09:03							CIRCULATED 20 BBLS/ 47 SKS
Check Floats	01/01/2014 09:05							FLOATS HELD/ 1 BBLS FLOW BACK TO DISPLACEMENT TANK
End Job	01/01/2014 09:06							
Post-Job Safety Meeting (Pre Rig-Down)	01/01/2014 09:10							
Rig-Down Completed	01/01/2014 10:30							
Depart Location Safety Meeting	01/01/2014 10:45							
Crew Leave Location	01/01/2014 11:00							
Other	01/01/2014 11:01							THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

WPX RWF 324-25 SURFACE



- Start Job 8.78;0;26;15.1
- Fill Lines 8.73;0;-1;0
- Stall Out 8.82;0;2187;2.1
- Test Lines 8.91;0;3709;2.2
- Pump Water Spacer 8.69;2.3;31;0.3
- Pump Lead Cement 11.87;3.9;151;1.3
- Pump Tail Cement 12.82;6.7;289;3.3
- Shutdown 11.71;0;60;62.4
- Drop Plug 11.43;0;22;62.4
- Pump Displacement 11.41;0.8;22;0
- Slow Rate 8.32;2.1;337;78.2
- Bump Plug 8.35;1.7;661;85.5
- Check Floats 8.33;0;81;85.5
- End Job 8.33;0;35;85.5

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Created: 2014-01-01 06:33:12, Version: 2.0.606 Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/1/2014 6:34:54 AM

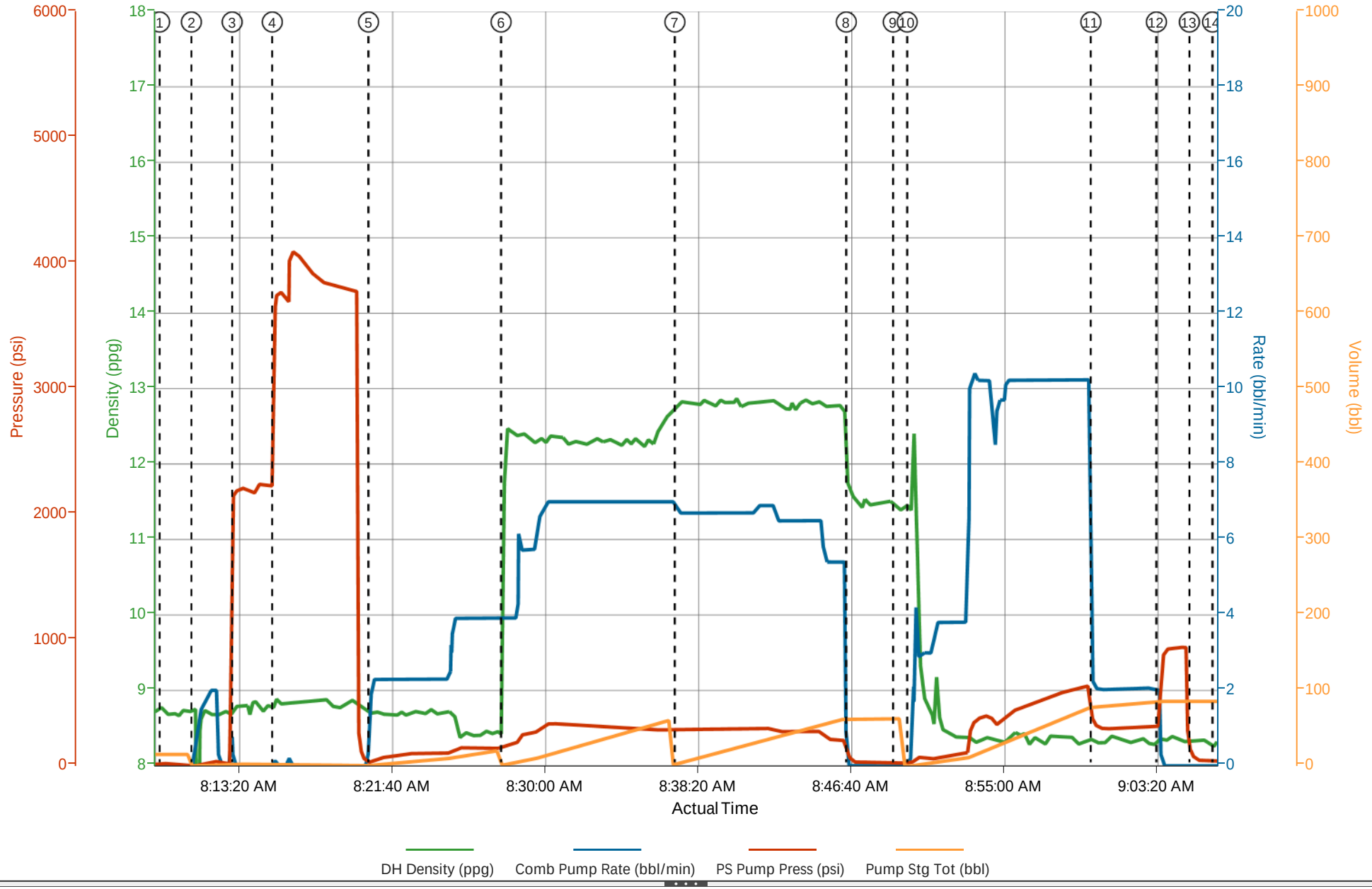
Well: RWF 324-25

Representative: LUKE HUBBARD

Sales Order #: 901010585

ELITE #7: J. CASTILLO / DAN SINCLAIR

WPX RWF 324-25 SURFACE



HALLIBURTON | iCem® Service

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Well: RWF 324-25

Representative: LUKE HUBBARD

Sales Order #: 901010585

ELITE #7: J. CASTILLO / DAN SINCLAIR

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Water Analysis Report

Company:	WPX	**Date:**	1/1/2014
Submitted by:	JAVIER CASTILLO	**Date Rec.:**	1/1/2014
Attention:	J.Trout	**S.O.#**	901010585
Lease	RWF	**Job Type:**	SURFACE
Well #	324-25		

Specific Gravity	*MAX*	1	
pH	*8*	7	
Potassium (K)	*5000*	200	Mg / L
Calcium (Ca)	*500*	120	Mg / L
Iron (FE2)	*300*	0	Mg / L
Chlorides (Cl)	*3000*	0	Mg / L
Sulfates (SO_4)	*1500*	200	Mg / L
Chlorine (Cl_2)		0	Mg / L
Temp	*40-80*	75	Deg
Total Dissolved Solids		510	Mg / L

Respectfully: JAVIER CASTILLO

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

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
901010585	10	1/1/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
LUKE HUBBARD		AFEYK2MVPIKDORQFAAA
Well Name:		**Well Number:**
RWF		324-25
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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**	**1/1/2014**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**FRANCISCO CASTILLO (HB85312)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**LUKE HUBBARD**
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**	**GOOD JOB**

CUSTOMER SIGNATURE

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
901010585	10	1/1/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
LUKE HUBBARD		AFEYK2MVPIKDORQFAAA
Well Name:		**Well Number:**
RWF		324-25
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	1/1/2014

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	6
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	1
Customer Non-Productive Rig Time (hrs) 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
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	5
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
901010585	10	1/1/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
LUKE HUBBARD		AFEYK2MVPIKDORQFAAA
Well Name:		**Well Number:**
RWF		324-25
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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 cment mixed at designed density divided by total BBLs of cement multiplied by 100	90
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	95
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