

**HALLIBURTON**

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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**RWF 514-25  
RULISON  
Garfield County , Colorado**

**Cement Surface Casing**

**28-Jan-2014**

**Post Job Report**

## The Road to Excellence Starts with Safety

The Road to Excellence Starts With Safety

Sold To #: 300721	Ship To #: 3190554	Quote #:	Sales Order #: 901072587
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hubbard, Luke	
Well Name: RWF		Well #: 514-25	API/UWI #: 05-045-21989
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.494 deg. OR N 39 deg. 29 min. 37.993 secs.		Long: W 107.838 deg. OR W -108 deg. 9 min. 43.625 secs.	
Contractor: Nabors		Rig/Platform Name/Num: Nabors 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 #
BRENNECKE, DIRK	6	561445	CASTILLO, FRANCISCO P	6	513620	HYDE, DUSTIN C	6	453940
MARTIN, DILLON Ray	6	478664	YENTER, TRAVIS Drake	6	556030			

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10001431	60 mile	10297346	60 mile	10872429	60 mile	10998054	60 mile
11071559	60 mile	11259884	60 mile	11808847	60 mile		

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1/28/14	6	1						

TOTAL Total is the sum of each column separately

Job					Job Times			
Formation Name					Date	Time	Time Zone	
Formation Depth (MD)	Top	SURFACE	Bottom	1198	Called Out	28 - Jan - 2014	08:00	MST
Form Type	BHST				On Location	28 - Jan - 2014	13:00	MST
Job depth MD	1206. ft	Job Depth TVD	1206. ft	Job Started	28 - Jan - 2014	16:23	MST	
Water Depth	Wk Ht Above Floor				Job Completed	28 - Jan - 2014	17:16	MST
Perforation Depth (MD)	From	To			Departed Loc	28 - Jan - 2014	19:00	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	9.625	1	WTF	1198	Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9.625	1	WTF	1153	Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
Stage Tool										Centralizers	9.625	7	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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Stage/Plug #: 1

**HALLIBURTON****Cementing Job Summary**

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		20.00	bbl	.	.0	.0	4	
2	VersaCem Lead	VARICEM (TM) CEMENT (452009)	180.0	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		91.00	bbl	8.34	.0	.0	8	
Calculated Values		Pressures		Volumes					
Displacement	91	Shut In: Instant		Lost Returns	0	Cement Slurry	136	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	40	Actual Displacement	91	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	247
<b>Rates</b>									
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	45ft	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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Well Name: RWF			Well #: 514-25			API/UWI #: 05-045-21989	
Field: RULISON		City (SAP): RIFLE		County/Parish: Garfield			State: Colorado
Legal Description:							
Lat: N 39.494 deg. OR N 39 deg. 29 min. 37.993 secs.				Long: W 107.838 deg. OR W -108 deg. 9 min. 43.625 secs.			
Contractor: Nabors			Rig/Platform Name/Num: Nabors 577				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srv Supervisor: CASTILLO, FRANCISCO				MBU ID Emp #: 513620

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/28/2014 08:00							ON LOCATION AT 13:00 HRS
Pre-Convoy Safety Meeting	01/28/2014 10:50							ALL HES PERSONEL. NO INJURIES WERE REPORTED BY HES PERSONEL BEFORE THE JOB.
Crew Leave Yard	01/28/2014 11:00							
Arrive At Loc	01/28/2014 13:00							RIG WAS STILL RUNNING CASING/LANDED CASING 11:50 AM/CIRCULATED WELL FROM NOON TO 13:00 HRS
Assessment Of Location Safety Meeting	01/28/2014 13:15							ALL HES PERSONEL
Rig-Up Equipment	01/28/2014 13:30							1-ELITE, 2-660 BULK TRUCKS, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH
Rig-Up Completed	01/28/2014 15:00							WAITING ON RIG TO FINISH RUNNING CASING
Pre-Job Safety Meeting	01/28/2014 16:00							ALL HES PERSONEL AND RIG CREW
Start Job	01/28/2014 16:23							TD-1206', OH-13.5", TP-1198', SJ-45', FC-1153', CSG-9.625", 32.3#, H-40, MUD-9.7 PPG, FV-85, PV-30, YP-35, pH-9.8, TEMP-80

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Water	01/28/2014 16:23		2	2			38.0	FILL LINES
Pressure Test	01/28/2014 16:24		0.2	0.2				STALL OUT TEST WITH 2356 PSI
Pressure Test	01/28/2014 16:26		0.2	0.2				PRESSURE TEST LINES WITH 3706 PSI
Pump Spacer	01/28/2014 16:30		4	20			127.0	FRESH WATER
Pump Lead Cement	01/28/2014 16:38		8	76			430.0	180 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK, SETUP TIME 2:38 HRS AT 70 BC
Pump Tail Cement	01/28/2014 16:48		8	60			414.0	160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK, SETUP TIME 1:51 HRS AT 70 BC
Shutdown	01/28/2014 16:57							
Drop Plug	01/28/2014 16:59							VERIFIED BY DRILLER
Pump Displacement	01/28/2014 17:00		10	80			681.0	FRESH WATER. GOT CEMENT RETURNS 50 BBLS INTO DISPLACEMENT
Slow Rate	01/28/2014 17:11		2	10.7			251.0	
Bump Plug	01/28/2014 17:14			90.7				CIRCULATED 40 BBLS/ 94 SKS OF CEMENT TO SURFACE
Check Floats	01/28/2014 17:15							FLOATS HELD/ 0.5 BBLS FLOW BACK TO DISPLACEMENT TANK
End Job	01/28/2014 17:16							40 LBS OF SUGAR WERE USED IN THE CELLAR FOR CEMENT RETURNS
Post-Job Safety Meeting (Pre Rig-Down)	01/28/2014 17:25							
Rig-Down Completed	01/28/2014 18:45							
Depart Location Safety Meeting	01/28/2014 18:50							NO INJURIES WERE REPORTED BY HES PERSONEL AFTER THE JOB.
Crew Leave Location	01/28/2014 19:00							
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

**HALLIBURTON**

*Cementing Job Log*

		#		Stage	Total	Tubing	Casing	
Other	01/28/2014 19:01							THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

Sold To # : 300721

Ship To # :3190554

Quote # :

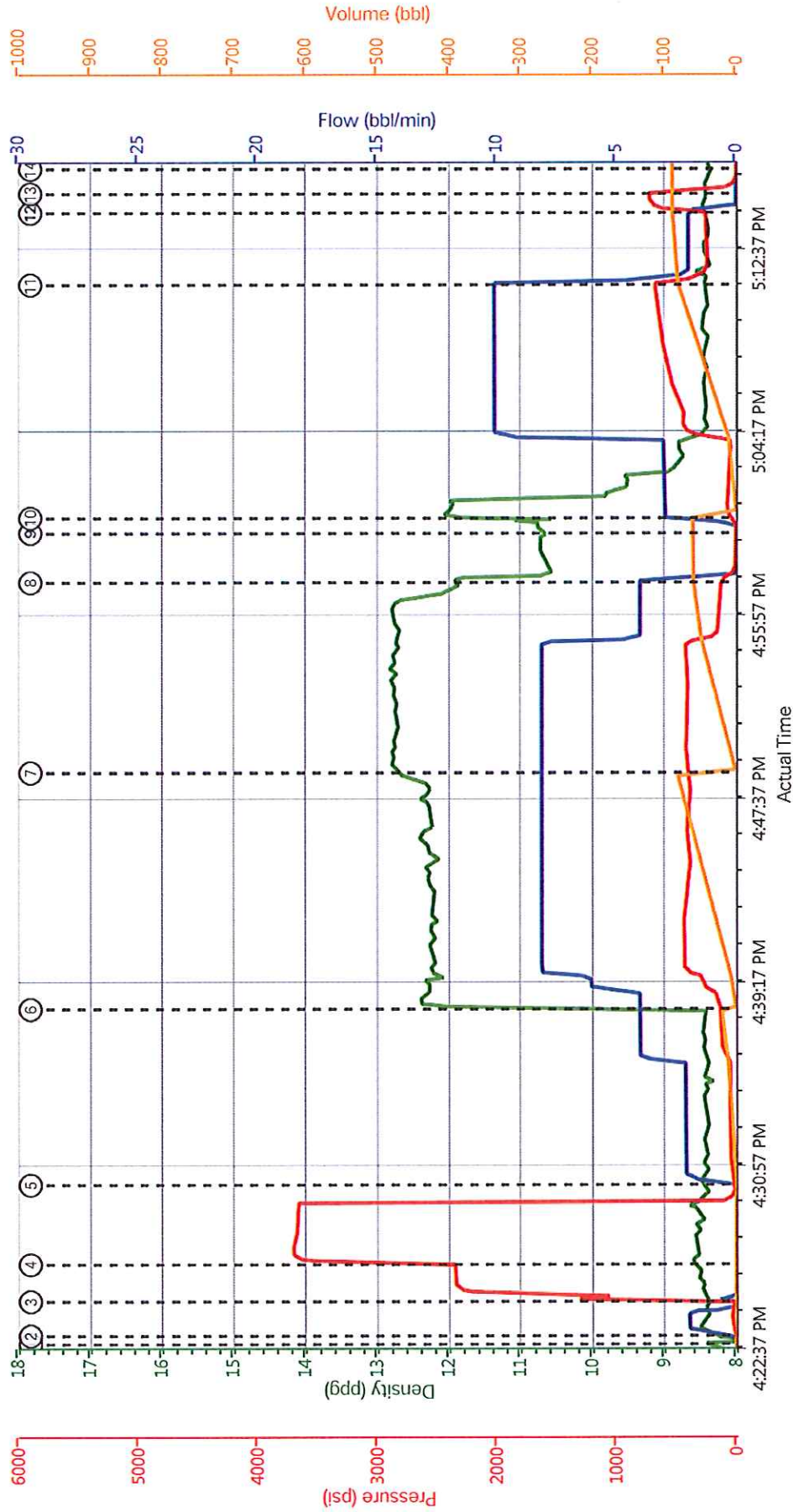
Sales Order # : 901072587

SUMMIT Version: 7.3.0109

Monday, February 03, 2014 04:49:00



# WPX RWF 514-25 SURFACE



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

- Start Job 7.58;0;0;0 • Test Lines 8.64;0.1;3560;2 • Pump Tail Cement 12.8;8.1;406;1.8 • Pump Displacement 12.05;3;67.8;0.04 • Check Floats 8.42;0;198;89
- Fill Lines 8.41;1.8;17;0.1 • Pump Water Spacer 8.51;1.6;10;0.2 • Shutdown 11.9;3.1;117;60.1 • Slow Rate 8.43;4.7;479;82.1 • End Job 8.42;0;2;89
- Stall Out 8.43;0;1125;2 • Pump Lead Cement 12.37;4;149;1 • Drop Plug 10.74;0;3;60.1 • Bump Plug 8.5;1.2;503;89

▼ HALLIBURTON | iCem® Service

Created: 2014-01-28 15:45:53, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/28/2014 3:46:43 PM

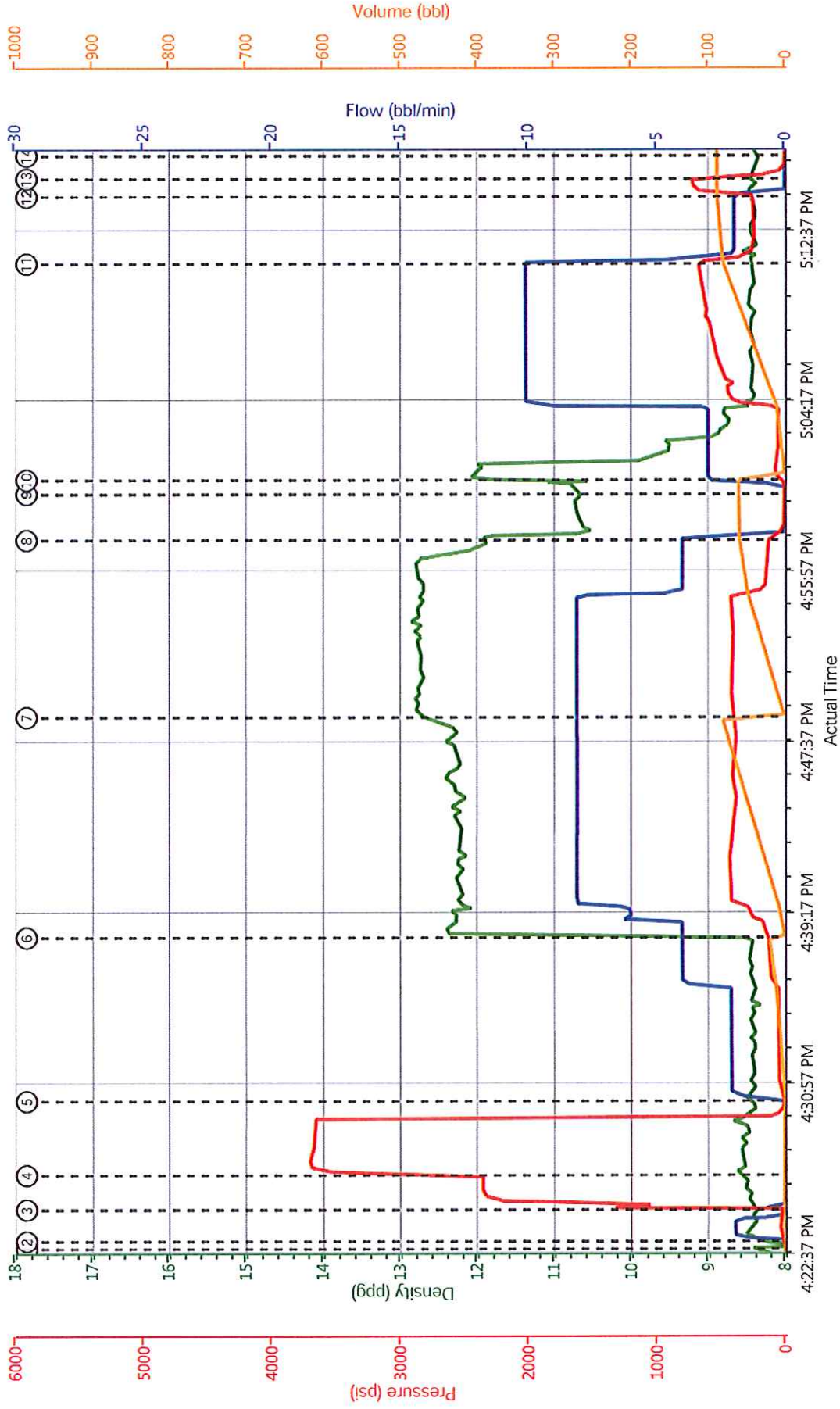
Well: RWF 514-25

Representative: LUKE HUBBARD

Sales Order #: 901072587

ELITE #7: J. CASTILLO / DUSTIN HYDE

# WPX RWF 514-25 SURFACE



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[Edit](#)

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Job Date: 1/28/2014 3:46:43 PM

Well: RWF 514-25

Representative: LUKE HUBBARD

Sales Order #: 901072587

ELITE #7: J. CASTILLO / DUSTIN HYDE



# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: JAVIER CASTILLO  
Attention: J.Trout  
Lease: RWF  
Well #: 514-25

Date: 1/28/2014  
Date Rec.: 1/28/2014  
S.O.#: 901072587  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>200</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>65</b> Deg
Total Dissolved Solids		<b>250</b> 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

<b>Sales Order #:</b> 901072587	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/28/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> LUKE HUBBARD		<b>API / UWI: (leave blank if unknown)</b> 05-045-21989
<b>Well Name:</b> RWF		<b>Well Number:</b> 514-25
<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	1/28/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	FRANCISCO CASTILLO (HB85312)
Customer Participation	Did the customer participate 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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<b>Customer Representative:</b> LUKE HUBBARD		<b>API / UWI: (leave blank if unknown)</b> 05-045-21989
<b>Well Name:</b> RWF		<b>Well Number:</b> 514-25
<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> The date the survey was conducted	1/28/2014

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.	6
<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	5
<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



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<b>Customer Representative:</b> LUKE HUBBARD		<b>API / UWI: (leave blank if unknown)</b> 05-045-21989
<b>Well Name:</b> RWF		<b>Well Number:</b> 514-25
<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