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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**RU 331-5  
RULISON  
Garfield County , Colorado**

**Cement Surface Casing  
10-Nov-2013**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123457	Quote #:	Sales Order #: 900888382
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Oaks, Rick	
Well Name: RU	Well #: 331-5	API/UWI #: 05-045-21788	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.475 deg. OR N 39 deg. 28 min. 29.064 secs.		Long: W 107.799 deg. OR W -108 deg. 12 min. 4.464 secs.	
Contractor: NABORS		Rig/Platform Name/Num: 576	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK	Srvc Supervisor: BRENNECKE, ANDREW		MBU ID Emp #: 486345

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRENNECKE, ANDREW Bailey	6.5	486345	PONDER, THOMAS Lynn	6.5	427112	WOLFE, JON P	6.5	485217

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867423	60 mile	10872429	60 mile	11562538	60 mile	11583931	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
11/10/2013	6.5	2						
<b>TOTAL</b>			Total is the sum of each column separately					

### Job

Formation Name	Job	Date	Time	Time Zone
Formation Depth (MD)	Top Bottom	Called Out	10 - Nov - 2013	08:37 MST
Form Type	BHST	On Location	10 - Nov - 2013	13:00 MST
Job depth MD	1164. ft	Job Depth TVD	1164. ft	Job Started 10 - Nov - 2013 17:09 MST
Water Depth		Wk Ht Above Floor	3. ft	Job Completed 10 - Nov - 2013 18:11 MST
Perforation Depth (MD)	From To	Departed Loc	10 - Nov - 2013	19:30 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
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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	1140.57	Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9.625	1	WTF	1096.82	Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
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

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

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	4.0	
2	VariCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	8	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	8	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement		84.00	bbl	.	.0	.0	10.0	
Calculated Values		Pressures		Volumes					
Displacement	86.3	Shut In: Instant		Lost Returns		Cement Slurry	127.9	Pad	
Top Of Cement	SURF	5 Min		Cement Returns	30	Actual Displacement	86.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	236.2
Rates									
Circulating		Mixing	8	Displacement	10	Avg. Job			8
Cement Left In Pipe	Amount	43.75 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID		Frac ring # 2 @	ID		Frac Ring # 3 @	ID		Frac Ring # 4 @
The Information Stated Herein Is Correct				Customer Representative Signature					

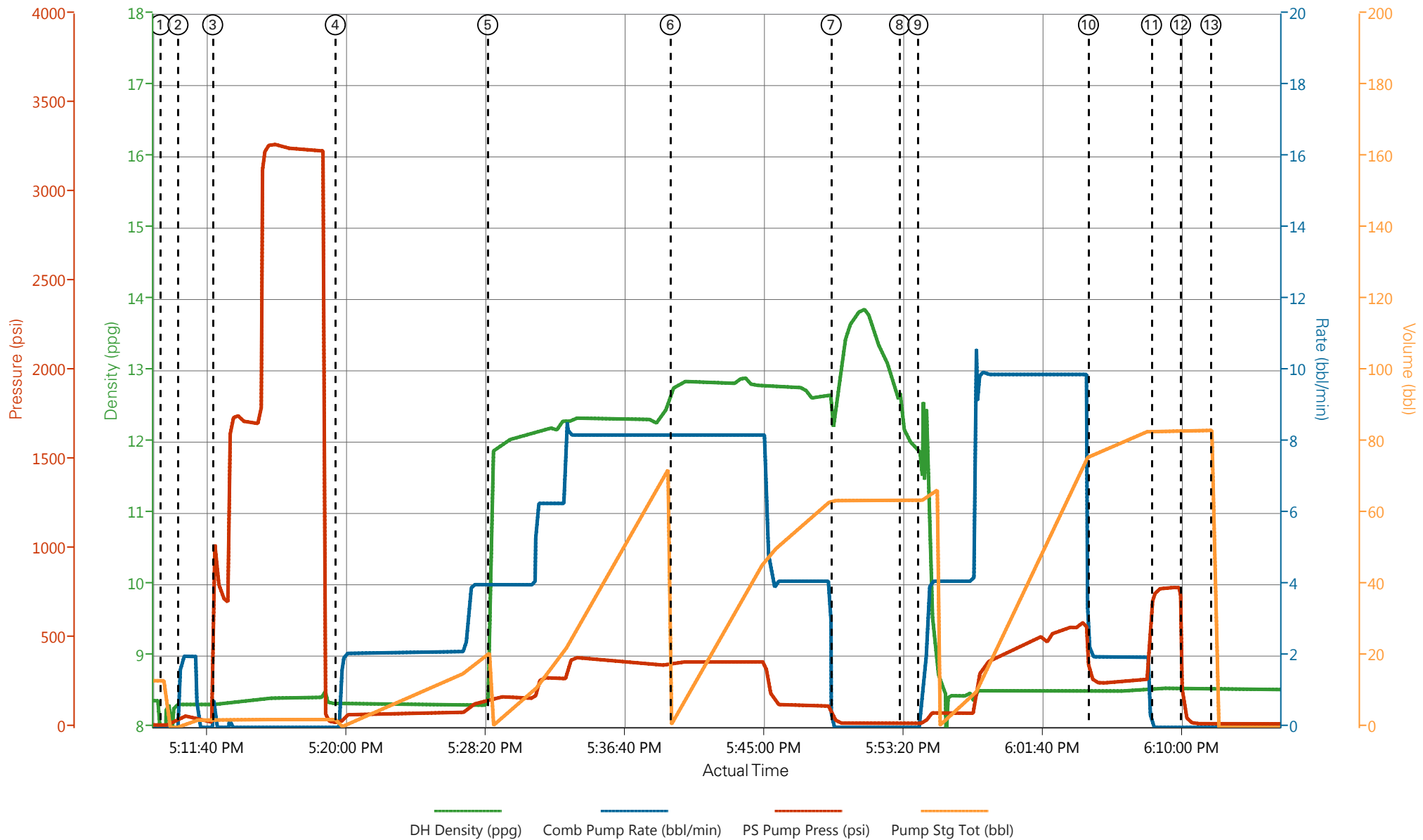
*The Road to Excellence Starts with Safety*

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<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 39.475 deg. OR N 39 deg. 28 min. 29.064 secs.				<b>Long:</b> W 107.799 deg. OR W -108 deg. 12 min. 4.464 secs.			
<b>Contractor:</b> NABORS			<b>Rig/Platform Name/Num:</b> 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>Srv Supervisor:</b> BRENNECKE, ANDREW			<b>MBU ID Emp #:</b> 486345	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/10/2013 08:37							
Pre-Convoy Safety Meeting	11/10/2013 11:20							ALL HES PERSONEL
Crew Leave Yard	11/10/2013 11:30							
Arrive At Loc	11/10/2013 13:00							CASERS WERE RIGGING UP. STATIONED TRUCKS AT THE ENTRANCE OF LOCATION UNTIL CASING WAS FINISHED.
Assessment Of Location Safety Meeting	11/10/2013 13:20							ALL HES PERSONEL
Rig-Up Equipment	11/10/2013 15:45							1-ELITE, 1-660 BULK TRUCKS, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH
Rig-Up Completed	11/10/2013 16:30							
Pre-Job Safety Meeting	11/10/2013 16:45							ALL HES PERSONEL AND RIG CREW
Start Job	11/10/2013 17:09							TD-1164', TP-1140.57', SJ-43.75', FC-1096.82', OH-13.5, CSG-9.625", 32.3#, H-40, MUD-10.1 PPG, VISC-60
Pump Water	11/10/2013 17:10		2	2			62.0	FILL LINES
Pressure Test	11/10/2013 17:12		0.5	0.5				PRESSURE TEST LINES WITH 3271 PSI
Pump Spacer	11/10/2013 17:19		4	20			121.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	11/10/2013 17:28		8	67.8			393.0	160 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK
Pump Tail Cement	11/10/2013 17:39		8	60.1			369.0	160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Shutdown	11/10/2013 17:49							
Drop Plug	11/10/2013 17:53							PLUG DROP VERIFIED BY CUSTOMER
Pump Displacement	11/10/2013 17:54		10	76			589.0	FRESH WATER, WASHED UP ON TOP OF PLUG.
Slow Rate	11/10/2013 18:04		2	10			269.0	
Bump Plug	11/10/2013 18:08						783.0	ALL HES PERSONEL
Check Floats	11/10/2013 18:10							FLOATS HELD/ .5 BBLS FLOW BACK TO DISPLACEMENT TANK
End Job	11/10/2013 18:11							GOOD RETURNS THROUGH OUT JOB. 30 BBLS CEMENT BACK TO SURFACE.
Other	11/10/2013 18:12							THANK YOU FOR FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW.

# WPX - RU 331-15 - 9.625" SURFACE



- |                             |                                      |                                       |                                |                          |
|-----------------------------|--------------------------------------|---------------------------------------|--------------------------------|--------------------------|
| ① Start Job 1.01;0;14;13.1  | ④ Pump Spacer 1 8.34;0;28;2.2        | ⑦ Shutdown 12.33;0;46;63.6            | ⑩ Slow Rate 8.5;2;275;76.4     | ⑬ End Job 8.53;0;21;83.3 |
| ② Prime Pumps 8.32;2;53;0.2 | ⑤ Pump Lead Cement 11.13;4;154;0     | ⑧ Drop Top Plug 12.27;0;21;63.6       | ⑪ Bump Plug 8.55;0;752;83.3    |                          |
| ③ Test Lines 8.34;0;921;2.1 | ⑥ Pump Tail Cement 12.77;8.2;362;2.1 | ⑨ Pump Displacement 11.83;0.4;21;63.6 | ⑫ Check Floats 8.53;0;107;83.3 |                          |

▼ **HALLIBURTON** | iCem® Service

Created: 2013-11-10 14:09:21, Version: 2.0.606

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 11/10/2013 4:38:01 PM

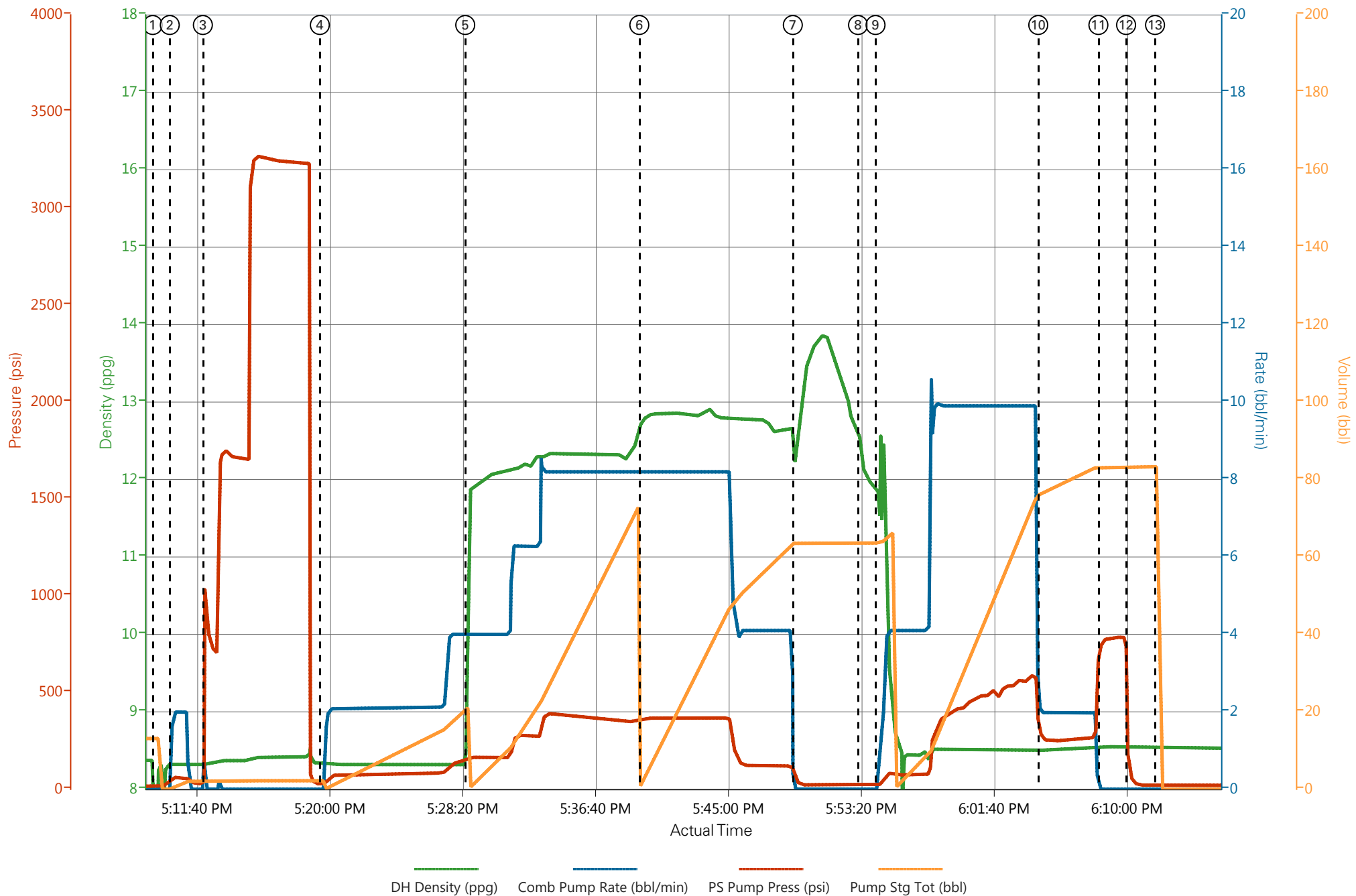
Well: RU 331-15

Representative: RICK OAKS

Sales Order #: 900888382

ELITE#7: A.BRENNECKE/J.WOLFE

# WPX - RU 331-15 - 9.625" SURFACE



# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: ANDREW BRENNECKE  
Attention: C. ROSS  
Lease: RU  
Well #: 331-15

Date: 11/10/2013  
Date Rec.: 11/10/2013  
S.O.#: 900888382  
Job Type: SURFACE

Specific Gravity	MAX	1
pH	8	7
Potassium (K)	5000	250 Mg / L
Calcium (Ca)	500	350 Mg / L
Iron (FE2)	300	0 Mg / L
Chlorides (Cl)	3000	0 Mg / L
Sulfates (SO <sub>4</sub> )	1500	<200 Mg / L
Chlorine (Cl <sub>2</sub> )		0 Mg / L
Temp	40-80	43 Deg
Total Dissolved Solids		760 Mg / L

Respectfully: ANDREW BRENNECKE

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 whatsoever due to act or omission resulting from such report or its



<b>Sales Order #:</b> 900888382	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/10/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RICK OAKS		<b>API / UWI: (leave blank if unknown)</b> 05-045-21788
<b>Well Name:</b> RU		<b>Well Number:</b> 331-5
<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 honest 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	11/10/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	ANDREW BRENNECKE (HB58348)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RICK OAKS
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	THANKS GOOD JOB

<b>CUSTOMER SIGNATURE</b>
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<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	11/10/2013

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	7
<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>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	96
<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	8
<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