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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**RMV 163-4  
RULISON  
Garfield County , Colorado**

**Cement Surface Casing**  
13-Nov-2013

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 3123636	<b>Quote #:</b>	<b>Sales Order #:</b> 900893283
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> Hutson, Matt	
<b>Well Name:</b> RMV	<b>Well #:</b> 163-4	<b>API/UWI #:</b> 05-045-22086	
<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. 23.801 secs.		<b>Long:</b> W 107.889 deg. OR W -108 deg. 6 min. 39.593 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> PONDER, THOMAS	<b>MBU ID Emp #:</b> 427112

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BLUST, CHARLES Thomas	8	386662	PONDER, THOMAS Lynn	8	427112	SINCLAIR, DAN J	8	338784

**Equipment**

HES Unit #	Distance-1 way						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/13/2013	8	2						
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

**Job**

**Job Times**

Formation Name	Date	Time	Time Zone
<b>Formation Depth (MD) Top</b>	<b>Bottom</b>	<b>Called Out</b>	13 - Nov - 2013 09:00 MST
<b>Form Type</b>	BHST	<b>On Location</b>	13 - Nov - 2013 14:00 MST
<b>Job depth MD</b>	1192. ft	<b>Job Depth TVD</b>	1192. ft
<b>Water Depth</b>		<b>Job Started</b>	13 - Nov - 2013 19:44 MST
<b>Perforation Depth (MD) From</b>	<b>To</b>	<b>Job Completed</b>	13 - Nov - 2013 20:41 MST
		<b>Departed Loc</b>	13 - Nov - 2013 22:00 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 5/8	1	WTF	1192	Packer					Top Plug	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9 5/8	1	WTF	1145	Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	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
1	Fresh Water Spacer			bbl	8.34	.0	.0	4.0	

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
2	VersaCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)		sacks	12.3	2.38	13.75	8.0	13.75
	13.75 Gal	FRESH WATER							
3	VersaCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)		sacks	12.8	2.11	11.75	8.0	11.75
	11.75 Gal	FRESH WATER							
4	Fresh Water Displacement			bbl	8.34	.0	.0	10.0	
Calculated Values		Pressures		Volumes					
Displacement	90.1	Shut In: Instant		Lost Returns		Cement Slurry	127.8	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	90.1	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	238.1
Rates									
Circulating	RIG	Mixing	7.5	Displacement	10	Avg. Job	7.5		
Cement Left In Pipe	Amount	0 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					

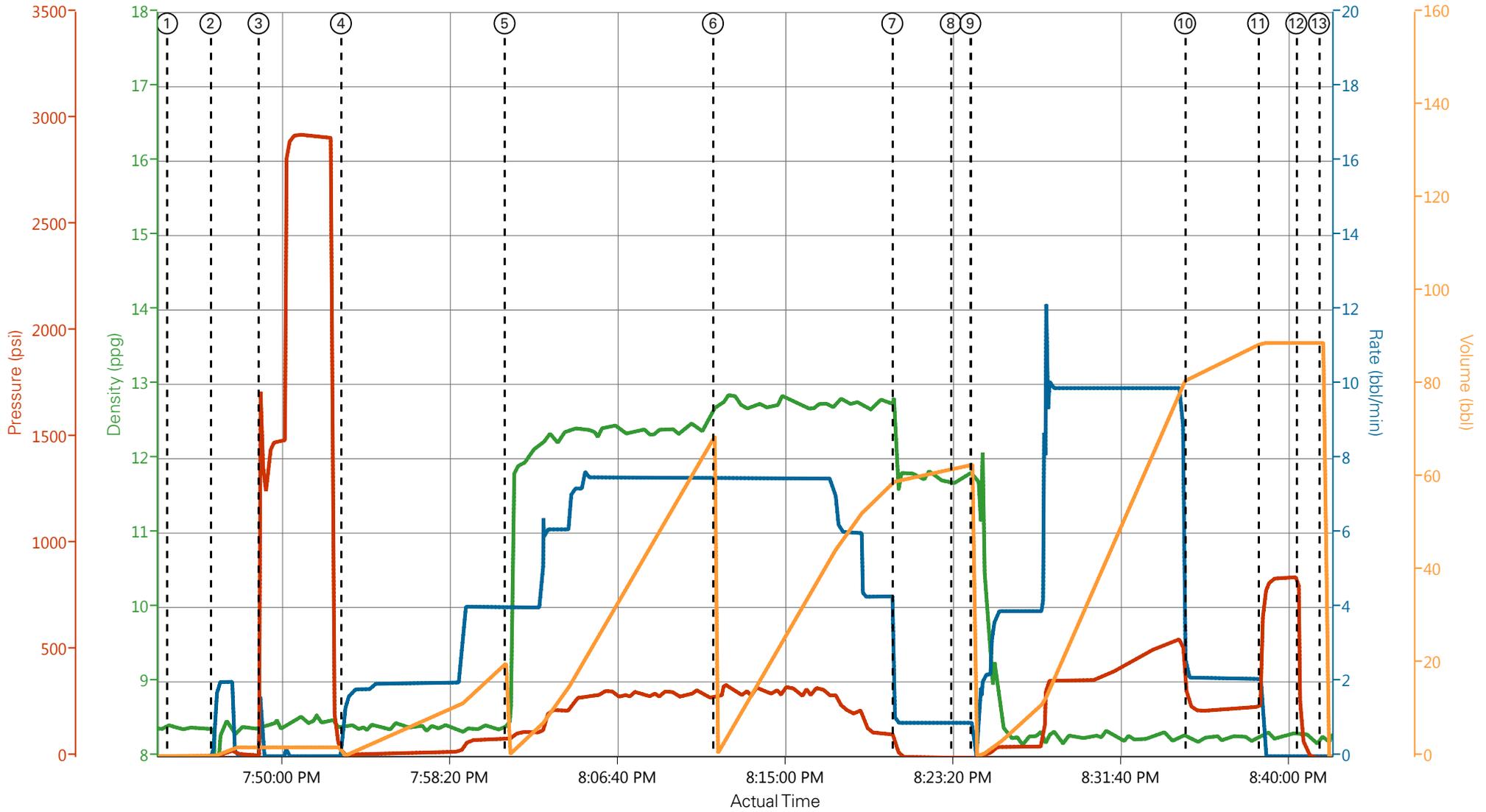
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<b>Field:</b> RULISON	<b>City (SAP):</b> RIFLE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
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<b>Contractor:</b> NABORS 574		<b>Rig/Platform Name/Num:</b> NABORS 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> PONDER, THOMAS	<b>MBU ID Emp #:</b> 427112

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure Psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/13/2013 09:00							
Crew Leave Yard	11/13/2013 12:00							ALL HES PRESENT FOR PRE-CONVOY SAFETY HUDDLE
Arrive At Loc	11/13/2013 14:00							RIG WAS STILL PULLING DRILL PIPE WHEN THE CREW ARRIVED ON LOCATION
Assessment Of Location Safety Meeting	11/13/2013 17:45							TD- 1201', TP- 1192', SJ- 47', MUD- 10.1 PPG 80 VIS, HOLE- 13 1/2", SURFACE CASING- 9 5/8" 32.3# H-40
Rig-Up Equipment	11/13/2013 18:00							1-550 PICKUP, 1-ELITE PUMP, 1-660 CUFT BULK TRUCK
Safety Meeting	11/13/2013 19:30							ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 1830
Start Job	11/13/2013 19:44		2	2			30.0	FILL LINES
Test Lines	11/13/2013 19:48		0.1	0.1			2925.0	GOOD PRESSURE TEST, NO LEAKS IN THE LINES
Pump Spacer 1	11/13/2013 19:53		4	20			68.0	FRESH WATER
Pump Lead Cement	11/13/2013 20:01		7.5	67.8			306.0	160 SKS 12.3 PPG 2.38 FT3/SK 13.75 GAL/SK
Pump Tail Cement	11/13/2013 20:11		7.5	60.1			310.0	160 SKS 12.8 PPG 2.11 FT3/SK 11.75 GAL/SK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	11/13/2013 20:20							
Drop Plug	11/13/2013 20:23							PLUG DROP VERIFIED VIA TATTLE TELL BY CUSTOMER REP
Pump Displacement	11/13/2013 20:24		10	80.1			550.0	FRESH WATER, WASHED UP MIXING TUB ON TOP OF PLUG WITH FIRST 10 BBL OF DISPLACEMENT
Slow Rate	11/13/2013 20:35		2	10	90.1		234.0	GOOD CIRCULATION THROUGH OUT THE JOB, 20 BBL CEMENT CIRCULATED TO SURFACE
Bump Plug	11/13/2013 20:38				90.1		284.0	PLUG BUMPED
Check Floats	11/13/2013 20:40						843.0	FLOATS HELD, 1/2 BBL BACK TO THE DISPLACEMENT TANKS
End Job	11/13/2013 20:41							THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

# WPX - RMV 163-4 - 9.625 IN SURFACE



DH Density (ppg) 8.26    Comb Pump Rate (bbl/min) 0    PS Pump Press (psi) -11    Pump Stg Tot (bbl) 0

- ① Start Job 8.42;0;-8;0    ④ Pump Spacer 1 8.35;0.9;6;0.1    ⑦ Shutdown 12.33;0.9;53;59.2    ⑩ Slow Rate 8.25;2.1;260;81.2    ⑬ Other 8.25;0;-10;88.9
- ② Fill Lines 8.33;0.9;-8;0    ⑤ Pump Lead Cement 8.41;4;81;0.1    ⑧ Drop Top Plug 11.69;0.9;-10;61.9    ⑪ Bump Plug 8.27;2;477;88.8
- ③ Test Lines 8.4;0;1462;1.9    ⑥ Pump Tail Cement 12.76;7.5;298;0.2    ⑨ Pump Displacement 11.78;0.9;-10;0    ⑫ Check Floats 8.27;0;314;88.9

**HALLIBURTON** | iCem® Service

Created: 2013-11-13 18:58:40, Version: 2.0.606

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 11/13/2013

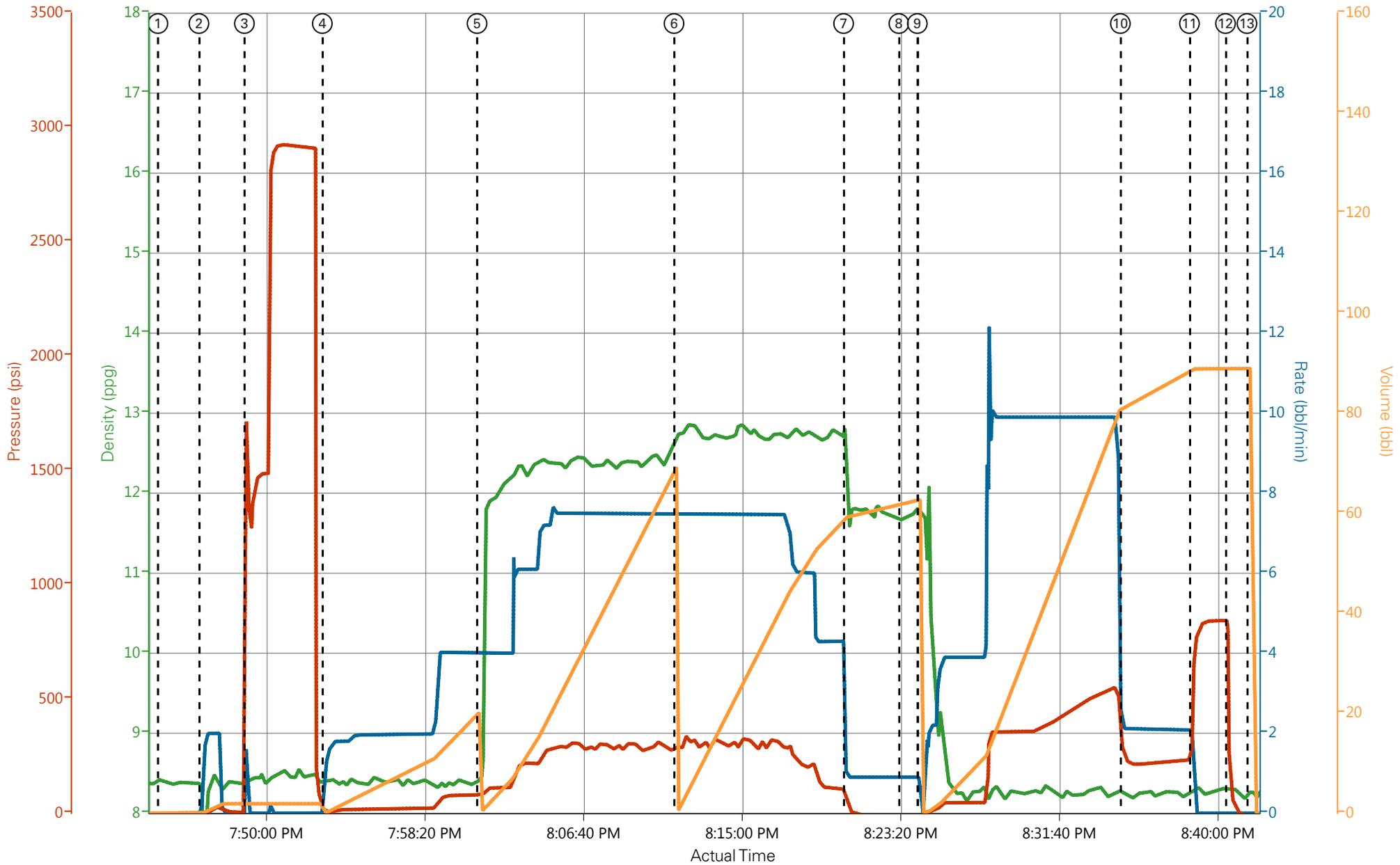
Well: RMV 163-4

Representative: GARY VALLAD

Sales Order #: 900893283

ELITE #2: THOMAS PONDER / DAN SINCLAIR

WPX - RMV 163-4 - 9.625 IN SURFACE



DH Density (ppg) 8.24    Comb Pump Rate (bbl/min) 0    PS Pump Press (psi) -10    Pump Stg Tot (bbl) 0

# HALLIBURTON

Company: WPX Date: 11/13/2013  
Submitted by: THOMAS PONDER Date Rec.: 11/13/2013  
Attention: LARRY COOKSEY S.O.# 900893283  
Lease RMV Job Type: SURFACE  
Well # 163-4

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>250 Mg / L</i>
Calcium (Ca)	<i>500</i>	<i>120 Mg / L</i>
Iron (FE2)	<i>300</i>	<i>0 Mg / L</i>
Chlorides (Cl)	<i>3000</i>	<i>0 Mg / L</i>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>&lt;200 Mg / L</i>
Carbonates hardness		
Temp	<i>40-80</i>	<i>57 Deg</i>
Total Dissolved Solids		<i>220 Mg / L</i>

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

<b>Sales Order #:</b> 900893283	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/14/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> GARY VALLAD		<b>API / UWI: (leave blank if unknown)</b> 05-045-22086
<b>Well Name:</b> RMV		<b>Well Number:</b> 163-4
<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	11/14/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	THOMAS PONDER (HX41187)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	GARY VALLAD
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

<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>	11/14/2013
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>	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>	2
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>	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

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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	99
<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	99
<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