
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**RWF 12-25
RULISON
Garfield County , Colorado**

Cement Surface Casing
27-Dec-2013

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123557	Quote #:	Sales Order #: 900996070
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Duniho, Al		
Well Name: RWF	Well #: 12-25	API/UWI #: 05-045-21974	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.497 deg. OR N 39 deg. 29 min. 49.067 secs.	Long: W 107.841 deg. OR W -108 deg. 9 min. 31.892 secs.		
Contractor: CYCLONE	Rig/Platform Name/Num: 17		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srv Supervisor: PONDER, THOMAS	MBU ID Emp #: 427112	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
LAULAINEN, ROGER Edward	6.5	524413	LOBATO, MAX Abraham	6.5	555409	PONDER, THOMAS Lynn	6.5	427112

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
	60 mile	10296152C	60 mile	11360881	60 mile	11583931	60 mile
11808849	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/26/2013	5.5	1	12/26/2013	1	1			

TOTAL Total is the sum of each column separately

Job

Formation Name					Date				Time		Time Zone				
Formation Depth (MD)		Top		Bottom		Called Out			26 - Dec - 2013		12:45		MST		
Form Type		BHST		On Location			26 - Dec - 2013		18:30		MST				
Job depth MD		1154.5 ft		Job Depth TVD		1154.5 ft		Job Started		26 - Dec - 2013		23:14		MST	
Water Depth		Wk Ht Above Floor		Job Completed			27 - Dec - 2013		00:09		MST				
Perforation Depth (MD)		From		To		Departed Loc			27 - Dec - 2013		01:00		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 5/8	1	WTF	1154.5	Packer					Top Plug	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9 5/8	1	WTF	1109.55	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

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		20.00	bbl	8.34	.0	.0	4.0	
2	VariCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	8.0	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	8.0	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement		87.00	bbl	8.34	.0	.0	10.0	
Calculated Values		Pressures		Volumes					
Displacement	87.3	Shut In: Instant		Lost Returns		Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement	87.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	235.2
Rates									
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job	8		
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					

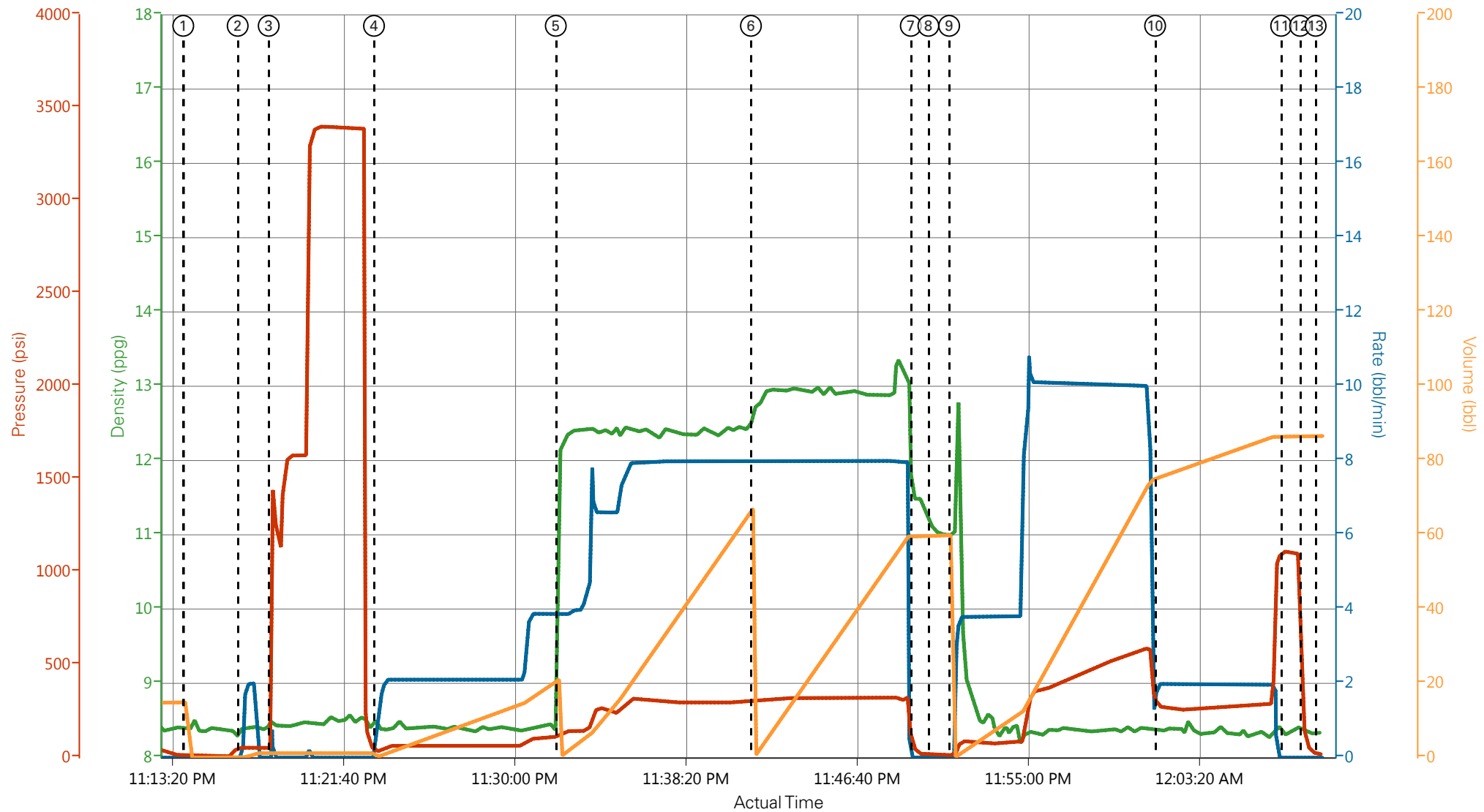
The Road to Excellence Starts with Safety

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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Duniwoo, Al			
Well Name: RWF			Well #: 12-25			API/UWI #: 05-045-21974	
Field: RULISON		City (SAP): RIFLE		County/Parish: Garfield			State: Colorado
Legal Description:							
Lat: N 39.497 deg. OR N 39 deg. 29 min. 49.067 secs.				Long: W 107.841 deg. OR W -108 deg. 9 min. 31.892 secs.			
Contractor: CYCLONE			Rig/Platform Name/Num: 17				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srv Supervisor: PONDER, THOMAS			MBU ID Emp #: 427112	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/26/2013 12:45							
Crew Leave Yard	12/26/2013 15:00							ALL HES PRESENT FOR PRE-CONVOY SAFETY HUDDLE
Arrive At Loc	12/26/2013 18:30							RIG WAS STILL PULLING DRILL PIPE WHEN THE CREW ARRIVED ON LOCATION
Assessment Of Location Safety Meeting	12/26/2013 20:00							TD- 1175', TP- 1154.5', SJ- 44.95', MUD- 10.0 PPG, HOLE- 13 1/2", SURFACE CASING- 9 5/8" 32.3# H-40
Rig-Up Equipment	12/26/2013 20:30							1-550 PICKUP, 1-ELITE PUMP, 1-660 CUFT BULK TRUCK
Safety Meeting	12/26/2013 22:45							ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 2245
Start Job	12/26/2013 23:14		2	2			57.0	FILL LINES
Test Lines	12/26/2013 23:17		0.1	0.1			3399.0	GOOD PRESSURE TEST, NO LEAKS IN THE LINES
Pump Spacer 1	12/26/2013 23:23		4	20			100.0	FRESH WATER
Pump Lead Cement	12/26/2013 23:32		8	67.8			312.0	160 SKS 12.3 PPG 2.38 FT3/SK 13.75 GAL/SK
Pump Tail Cement	12/26/2013 23:41		8	60.1			327.0	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	12/26/2013 23:49							
Drop Plug	12/26/2013 23:50							PLUG DROP VERIFIED VIA TATTLE TELL BY CUSTOMER REP
Pump Displacement	12/26/2013 23:51		10	77.3			593.0	FRESH WATER, WASHED UP MIXING TUB ON TOP OF PLUG WITH FIRST 10 BBL OF DISPLACEMENT
Slow Rate	12/27/2013 00:01		2	10	87.3		260.0	GOOD CIRCULATION THROUGH OUT THE JOB, 25 BBL CEMENT CIRCULATED TO SURFACE
Bump Plug	12/27/2013 00:07				87.3		291.0	PLUG BUMPED
Check Floats	12/27/2013 00:08						1105.0	FLOATS HELD, 1/2 BBL BACK TO THE DISPLACEMENT TANKS
End Job	12/27/2013 00:09							THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

WPX - RWF 12-25 - 9.625 IN SURFACE



DH Density (ppg) 8.34 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 18 Pump Stg Tot (bbl) 86.6

- | | | | | |
|-------------------------------|--------------------------------------|----------------------------------|--------------------------------|---------------------------|
| ① Start Job 8.38;0;8;14.9 | ④ Pump Spacer 1 8.41;0.9;33;0 | ⑦ Shutdown 11.47;0;51;59.9 | ⑩ Slow Rate 8.43;2;280;75.4 | ⑬ End Job n/a;n/a;n/a;n/a |
| ② Fill Lines 8.36;0;54;0 | ⑤ Pump Lead Cement 11.63;3.9;119;0.1 | ⑧ Drop Top Plug 11.14;0;15;59.9 | ⑪ Bump Plug 8.3;0;1111;86.6 | |
| ③ Test Lines 8.45;0.8;756;1.2 | ⑥ Pump Tail Cement 12.7;8;306;0.2 | ⑨ Pump Displacement 10.99;0;13;0 | ⑫ Check Floats 8.35;0;187;86.6 | |

▼ **HALLIBURTON** | iCem® Service

Created: 2013-12-26 19:37:09, Version: 2.0.606

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 12/26/2013

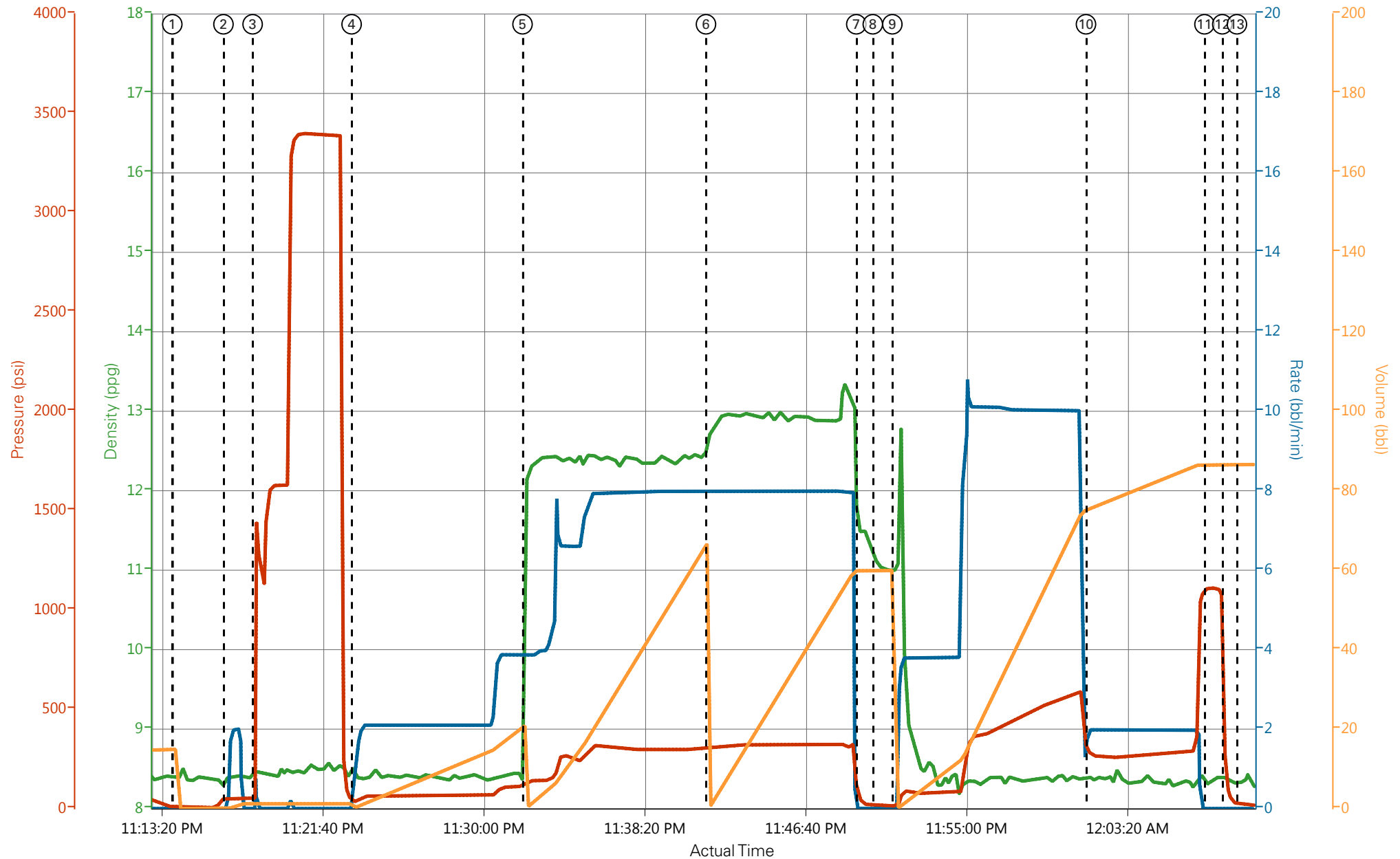
Well : RWF 12-25

Representative : MIKE BRUNK

Sales Order # : 900996070

ELITE #9: ROGER LAULAINEN / THOMAS PONDER

WPX - RWF 12-25 - 9.625 IN SURFACE



DH Density (ppg) 8.29 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 17 Pump Stg Tot (bbl) 86.6

HALLIBURTON | iCem® Service

Created: 2013-12-26 19:37:09, Version: 2.0.606

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-
EBUS

Job Date: 12/26/2013

Well: RWF 12-25

Representative: MIKE BRUNK

Sales Order #: 900996070

ELITE #9: ROGER LAULAINEN / THOMAS
PONDER

HALLIBURTON

Company:	<u>WPX</u>	Date:	<u>12/26/2013</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>12/26/2013</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>900996070</u>
Lease	<u>RWF</u>	Job Type:	<u>SURFACE</u>
Well #	<u>12 25</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7.2</i>
Potassium (K)	<i>5000</i>	<i>250</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Carbonates hardness		
Temp	<i>40-80</i>	<i>54</i> Deg
Total Dissolved Solids		<i>425</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

Sales Order #: 900996070	Line Item: 10	Survey Conducted Date: 12/27/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MIKE BRUNK		API / UWI: (leave blank if unknown) 05-045-21974
Well Name: RWF		Well Number: 12-25
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: 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	12/27/2013
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	MIKE BRUNK
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	

CUSTOMER SIGNATURE

Sales Order #: 900996070	Line Item: 10	Survey Conducted Date: 12/27/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MIKE BRUNK		API / UWI: (leave blank if unknown) 05-045-21974
Well Name: RWF		Well Number: 12-25
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	12/27/2013

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.	2
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	6
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

Sales Order #: 900996070	Line Item: 10	Survey Conducted Date: 12/27/2013
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Customer Representative: MIKE BRUNK		API / UWI: (leave blank if unknown) 05-045-21974
Well Name: RWF		Well Number: 12-25
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: 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 cement mixed at designed density divided by total BBLs of cement multiplied by 100	99
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	99
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