
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**RWF 332-4
Rulison
Garfield County , Colorado**

Cement Surface Casing
04-Dec-2013

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123634	Quote #:	Sales Order #: 900941621
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hutson, Matt	
Well Name: RWF		Well #: 332-4	API/UWI #: 05-045-22081
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.473 deg. OR N 39 deg. 28 min. 23.704 secs.		Long: W 107.889 deg. OR W -108 deg. 6 min. 39.449 secs.	
Contractor: NABORS 574		Rig/Platform Name/Num: NABORS 574	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srv Supervisor: KEANE, JOHN	MBU ID Emp #: 486519

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	13	371353	KEANE, JOHN Donovon	13	486519	MCINTOSH, ROBERT	13	547652
SOMOZA, RAMON Manuel	13	554555						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10567589C	60 mile	10867531	60 mile	10951245	60 mile	10973571	60 mile
11808829	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/03/2013	4	0	12/04/2013	9	1.5			

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	03 - Dec - 2013	15:30	MST
Form Type		BHST	Job Started	03 - Dec - 2013	20:00	MST
Job depth MD	1125. ft	Job Depth TVD	Job Completed	04 - Dec - 2013	06:15	MST
Water Depth		Wk Ht Above Floor	Departed Loc	04 - Dec - 2013	07:35	MST
Perforation Depth (MD)	From	To		04 - Dec - 2013	09:00	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					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					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 lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk		

Stage/Plug #: 1									
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	4	
2	VersaCem 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	VersaCem 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		85.00	bbl	.	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	85.2	Shut In: Instant		Lost Returns	0	Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	15	Actual Displacement	85.2	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	233
Rates									
Circulating	10	Mixing	8	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	42ft	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

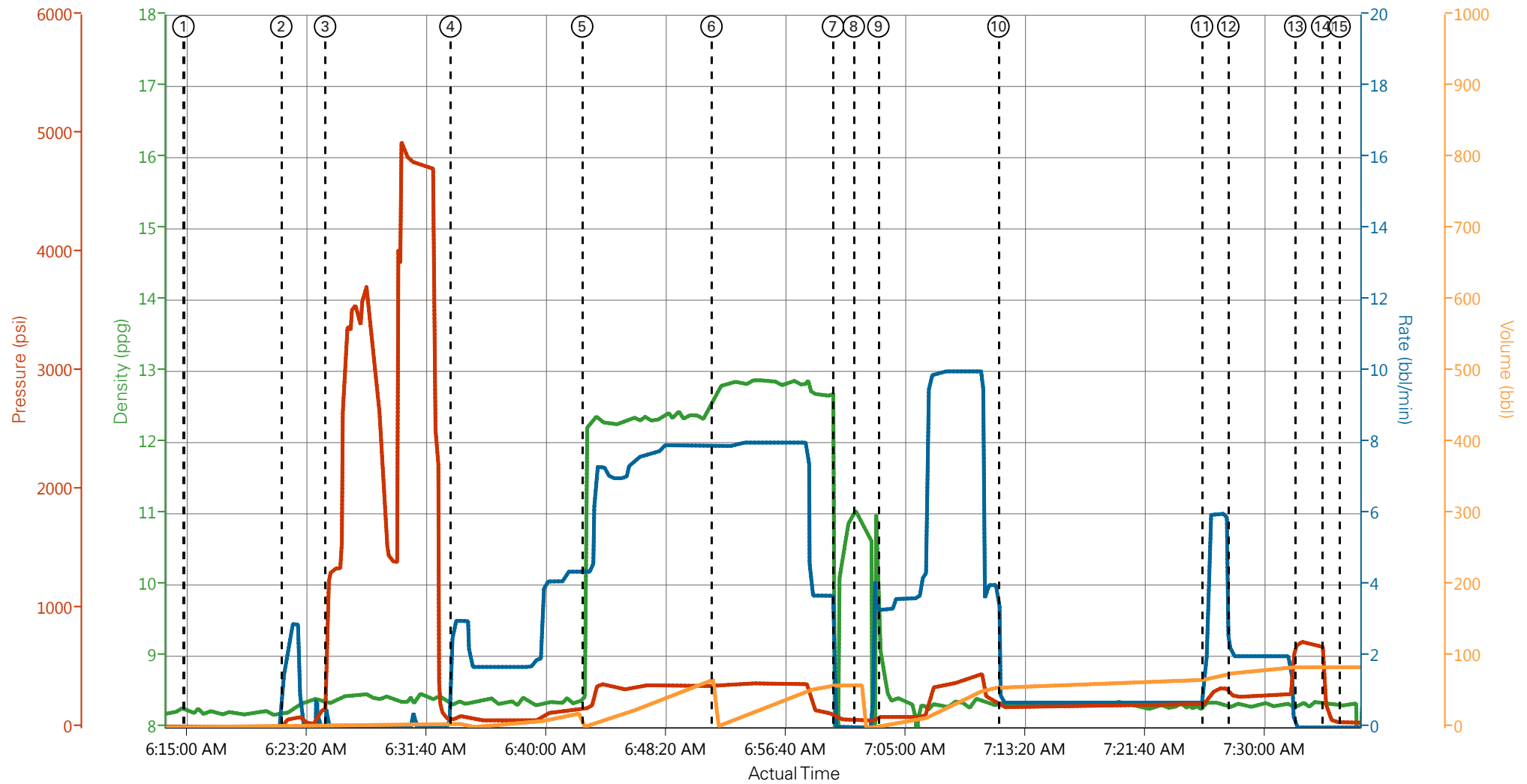
Sold To #: 300721		Ship To #: 3123634		Quote #:		Sales Order #: 900941621	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Hutson, Matt			
Well Name: RWF			Well #: 332-4			API/UWI #: 05-045-22081	
Field: Rulison		City (SAP): RIFLE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.473 deg. OR N 39 deg. 28 min. 23.704 secs.				Long: W 107.889 deg. OR W -108 deg. 6 min. 39.449 secs.			
Contractor: NABORS 574			Rig/Platform Name/Num: NABORS 574				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srvc Supervisor: KEANE, JOHN			MBU ID Emp #: 486519	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/03/2013 15:30							
Pre-Convoy Safety Meeting	12/03/2013 17:45							WITH HES
Arrive At Loc	12/03/2013 20:00							RIG RUNNING WIPER TRIP UPON HES ARRIVAL
Assessment Of Location Safety Meeting	12/03/2013 20:10							WITH HES
Pre-Rig Up Safety Meeting	12/04/2013 04:30							WITH HES
Rig-Up Equipment	12/04/2013 04:45							
Pre-Job Safety Meeting	12/04/2013 06:00							WITH HES, WPX, AND NABORS 574
Start Job	12/04/2013 06:15							TP 1125 FT, TD 1140 FT, HOLE 13.5 IN, SHOE 42 FT, MWT 9.7 LB/GAL, CSG 32.3 LB/FT 9.625 H-40, PV/YP 34/48, RIG CIRCULATING AT 10 BBL/MIN
Pump Water	12/04/2013 06:21		2	2	2		104.0	FILL LINES
Test Lines	12/04/2013 06:24							LOW TEST AT 1340 PSI, HIGH TEST AT 4500 PSI, PRESSURE HOLDING
Pump Spacer	12/04/2013 06:33		4	20	22		134.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Lead Cement	12/04/2013 06:42		8	67.8	89.8		364.0	MIXED AT 12.3 LB/GAL, 160 SKS, 2.38 FT3/SK, 13.75 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Pump Tail Cement	12/04/2013 06:51		8	60.1	149.9		359.0	MIXED AT 12.8 LB/GAL, 160 SKS, 2.11 FT3/SK, 11.75 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Shutdown	12/04/2013 07:00						80.0	
Drop Plug	12/04/2013 07:01							PLUG LAUNCHED
Pump Displacement	12/04/2013 07:03		10	75	224.9		259.0	FRESH WATER, SLOWED RATE TO HELP RIG WITH CELLAR PUMP PROBLEMS, RESUMED RATE ONCE PROBLEMS WERE FIXED
Slow Rate	12/04/2013 07:27		2	10	234.9		270.0	SLOWED RATE AT 75 BBL AWAY ON DISPLACEMENT
Bump Plug	12/04/2013 07:32		2		234.9		259.0	PLUG BUMPED AT CALCULATED DISPLACEMENT
Check Floats	12/04/2013 07:34						720.0	FLOATS HOLDING, .5 BBL RETURNED TO THE TRUCK
End Job	12/04/2013 07:35							GOOD CIRCULATION THROUGHOUT THE JOB, PIPE WAS STATIC THROUGHOUT THE JOB, 15 BBL CEMENT CIRCULATED TO SURFACE, 4 ADD HOURS CHARGED, NO DERRICK CHARGE, RIG USED 40 LBS OF SUGAR WITH HES
Post-Job Safety Meeting (Pre Rig-Down)	12/04/2013 07:50							
Rig-Down Equipment	12/04/2013 08:00							
Pre-Convoy Safety Meeting	12/04/2013 08:50							WITH HES
Crew Leave Location	12/04/2013 09:00							

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Comment	12/04/2013 09:01							THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

WPX - RWF-332-4 - 9.625 IN SURFACE



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

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------|
| ① Start Job 8.28;0;8;0 | ⑥ Pump Tail Cement 12.65;7.9;356;0.1 | ⑪ Resume 8.36;1.7;200;67.1 |
| ② Fill Lines 8.19;1.7;73;0.2 | ⑦ Shutdown 0.36;0;85;59.1 | ⑫ Slow Rate 8.3;2;269;76 |
| ③ Test Lines 8.34;0;1242;3 | ⑧ Drop Plug 11.01;0;59;59.1 | ⑬ Bump Plug 8.29;0;718;84.6 |
| ④ Fresh Water Spacer 8.32;3;71;3.7 | ⑨ Pump Displacement 8.95;3.3;90;2.1 | ⑭ Check Floats 8.35;0;195;84.6 |
| ⑤ Pump Lead Cement 10.81;4.4;151;1.4 | ⑩ Slow Rate 8.34;0.7;182;56.8 | ⑮ End Job 8.31;0;42;84.6 |

▼ **HALLIBURTON** | iCem® Service

Created: 2013-12-03 22:15:14, Version: 2.0.606

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 12/4/2013 5:14:10 AM

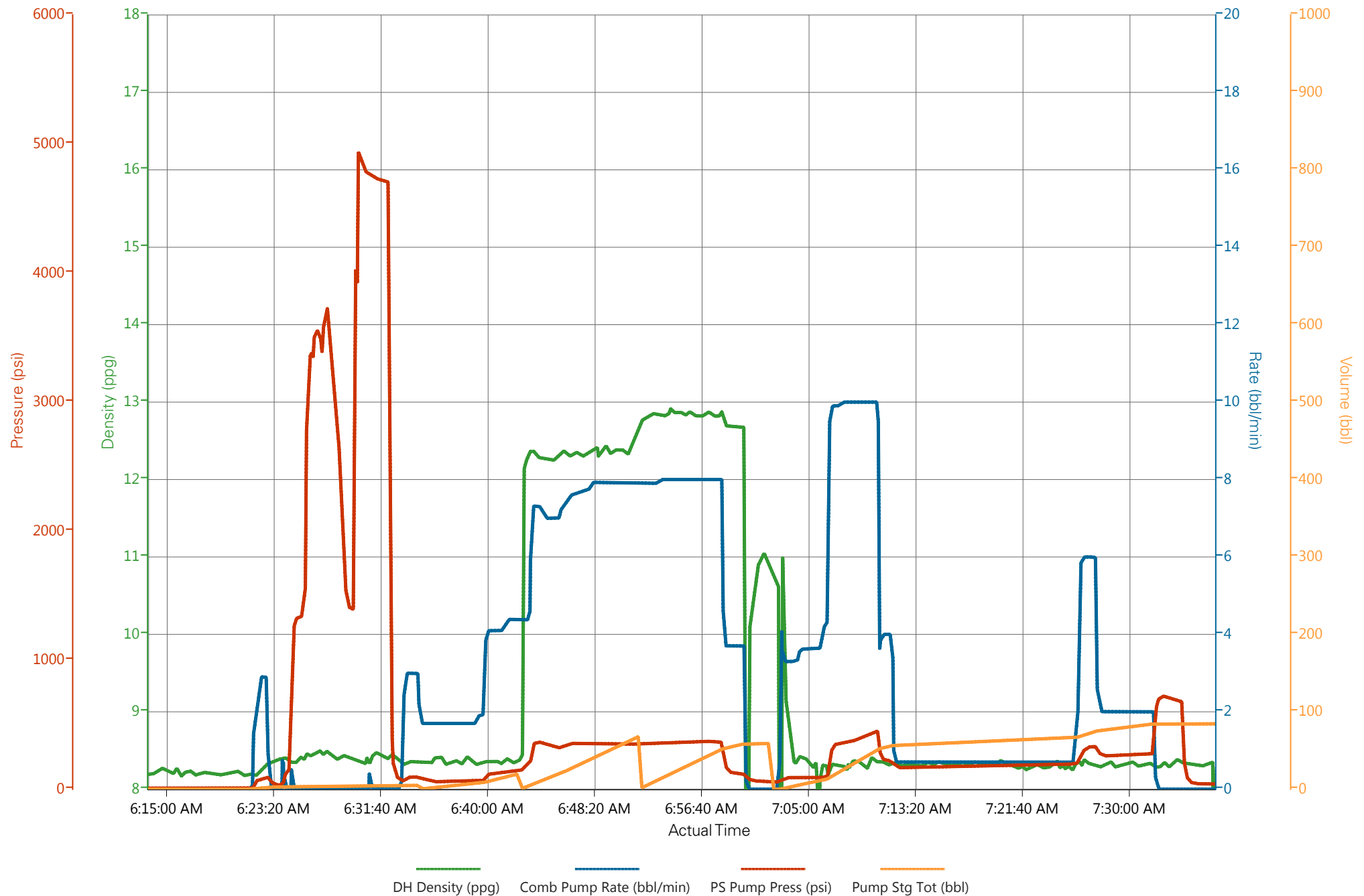
Well : RWF-332-4

Representative : MATT HUTSON

Sales Order # : 900941621

ELITE 3 : BRENT BANKS / JOHN KEANE

WPX - RWF-332-4 - 9.625 IN SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: JOHN KEANE
Attention: CHUCK ROSS
Lease: RWF
Well #: 332-4

Date: 12/3/2013
Date Rec.: 12/3/2013
S.O.#: 900941621
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	425 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	300 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	51 Deg
Total Dissolved Solids		390 Mg / L

Respectfully: JOHN KEANE

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 its

Sales Order #: 900941621	Line Item: 10	Survey Conducted Date: 12/5/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MATT HUTSON		API / UWI: (leave blank if unknown) 05-045-22081
Well Name: RWF		Well Number: 332-4
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	12/5/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JOHN KEANE (HB58526)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MATT HUTSON
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 #: 900941621	Line Item: 10	Survey Conducted Date: 12/5/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MATT HUTSON		API / UWI: (leave blank if unknown) 05-045-22081
Well Name: RWF		Well Number: 332-4
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	12/5/2013

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.	4
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.	1.5
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

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Customer Representative: MATT HUTSON		API / UWI: (leave blank if unknown) 05-045-22081
Well Name: RWF		Well Number: 332-4
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	97
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	90
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