
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**RU 41-5
RULISON
Garfield County , Colorado**

Cement Surface Casing
26-Dec-2013

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123452	Quote #:	Sales Order #: 900993856
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Hartl, Al		
Well Name: RU	Well #: 41-5	API/UWI #: 05-045-21782	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.475 deg. OR N 39 deg. 28 min. 29.204 secs.	Long: W 107.799 deg. OR W -108 deg. 12 min. 4.406 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	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 #
ANDERSON, ADAM S	0.0	456683	KEANE, JOHN Donovan	0.0	486519	MCINTOSH, ROBERT	0.0	547652

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10867423	60 mile	11259881	60 mile	11562538	60 mile
11808827	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						

TOTAL Total is the sum of each column separately

Job

Formation Name					Date				Time		Time Zone				
Formation Depth (MD)		Top		Bottom		Called Out		25 - Dec - 2013		05:30		MST			
Form Type		BHST				On Location		26 - Dec - 2013		01:30		MST			
Job depth MD		1162. ft		Job Depth TVD		1162. ft		Job Started		26 - Dec - 2013		04:20		MST	
Water Depth				Wk Ht Above Floor		5. ft		Job Completed		26 - Dec - 2013		05:20		MST	
Perforation Depth (MD)		From		To		Departed Loc		26 - Dec - 2013		06:26		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					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 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	.	.0	.0	4	
2	VariCem GJ! 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		88.00	bbl	.	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	87.8	Shut In: Instant		Lost Returns	0	Cement Slurry	128	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	87.8	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	236
Rates									
Circulating	10	Mixing	8	Displacement	10	Avg. Job	9		
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

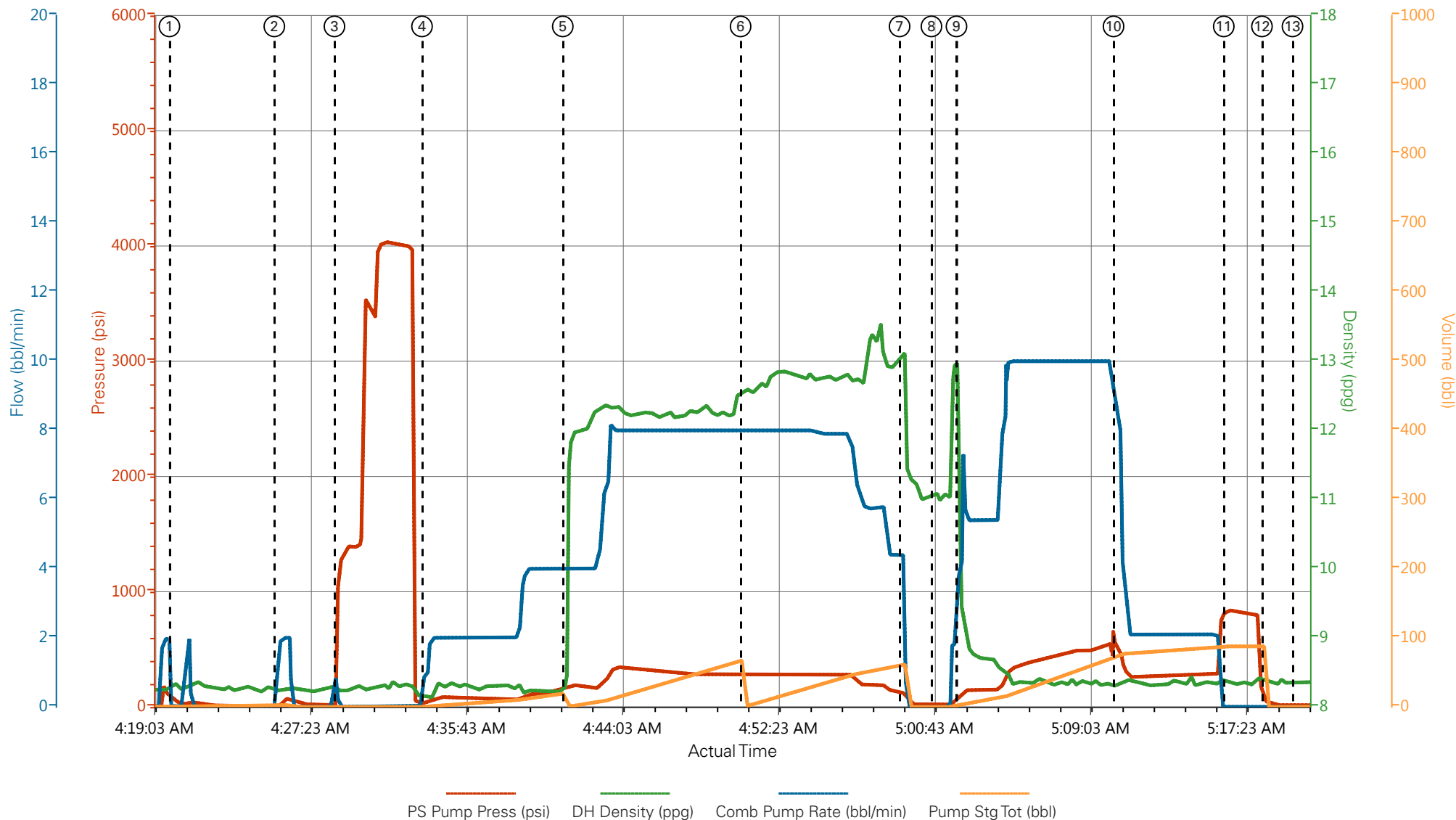
Sold To #: 300721		Ship To #: 3123452		Quote #:		Sales Order #: 900993856	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Hartl, Al			
Well Name: RU			Well #: 41-5			API/UWI #: 05-045-21782	
Field: RULISON		City (SAP): RIFLE		County/Parish: Garfield			State: Colorado
Legal Description:							
Lat: N 39.475 deg. OR N 39 deg. 28 min. 29.204 secs.				Long: W 107.799 deg. OR W -108 deg. 12 min. 4.406 secs.			
Contractor: NABORS			Rig/Platform Name/Num: 576				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srv 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	12/25/2013 17:30							
Pre-Convoy Safety Meeting	12/25/2013 20:00							WITH HES
Comment	12/25/2013 23:00							HES CEMENT UNIT, STUCK IN DITCH ON LEASE ROAD, COMPANY REP CALLED GRATER TO PULL OUT HES CEMENT UNIT, HES CEMENT UNIT FULLY CHAINED UP WHEN SLID OFF ROAD
Arrive At Loc	12/26/2013 01:30							ALL EQUIPMENT ON LOCATION, RIG RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	12/26/2013 01:35							WITH HES
Pre-Rig Up Safety Meeting	12/26/2013 01:40							WITH HES
Rig-Up Equipment	12/26/2013 01:50							
Pre-Job Safety Meeting	12/26/2013 04:00							WITH HES, WPX, AND NABORS 576
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Start Job	12/26/2013 04:20							TP 1162 FT, 30 FT LANDING JOINT, TD 1175 FT, SHOE 43.85 FT, HOLE 13.5 IN, MWT 10.2 LB/GAL, CSG 9.625 IN 32.3 LB/FT H-40, PV/YP 20/18, RIG CIRCULATING AT 10 BBL/MIN, PASON GAS AT 32 UNITS
Pump Water	12/26/2013 04:25		2	2			108.0	FILL LINES, SHUTDOWN WHILE FILLING LINES TO FIX LEAK ON CEMENT HEAD, RESUMED FILLING LINES WITH NO ISSUES
Test Lines	12/26/2013 04:28							LOW TEST AT 1389 PSI, HIGH TEST AT 3985 PSI, PRESSURE HOLDING
Pump Spacer	12/26/2013 04:33		4	20			140.0	FRESH WATER, RETURNS AT 2 BBL AWAY ON SPACER
Pump Lead Cement	12/26/2013 04:41		8	67.8			340.0	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	12/26/2013 04:50		8	60			290.0	MIXED AT 12.8 LB/GAL, 160 SKS, 2.11 FT3/SK, 11.75 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Shutdown	12/26/2013 04:59						120.0	
Drop Plug	12/26/2013 05:00							PLUG LAUNCHED
Pump Displacement	12/26/2013 05:02		10	78			500.0	FRESH WATER DISPLACEMENT
Slow Rate	12/26/2013 05:10		2	10			270.0	SLOWED AT 78 BBL AWAY ON DISPLACEMENT
Bump Plug	12/26/2013 05:16		2				290.0	PLUG BUMPED AT CALCULATED DISPLACEMENT
Check Floats	12/26/2013 05:18						810.0	FLOATS HOLDING, 1 BBL RETURNED TO THE TRUCK

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	12/26/2013 05:20							GOOD CIRCULATION THROUGHOUT THE JOB, PIPE WAS STATIC THROUGHOUT THE JOB, NO DERRICK CHARGE, NO ADD HOURS CHARGED, 20 BBL CEMENT CIRCULATED TO SURFACE, RIG USED 30 LBS OF SUGAR
Post-Job Safety Meeting (Pre Rig-Down)	12/26/2013 05:25							WITH HES
Rig-Down Equipment	12/26/2013 05:35							
Pre-Convoy Safety Meeting	12/26/2013 06:20							WITH HES
Crew Leave Location	12/26/2013 06:25							
Comment	12/26/2013 06:26							THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

WPX - RU-41-5 - 9.625 IN SURFACE



- | | | |
|---|---------------------------------------|-----------------------------|
| ① Start Job 74;8.29;0;1 | ⑥ Pump Tail Cement 281;12.6;8;0.1 | ⑪ Bump Plug 836;8.34;0;87.6 |
| ② Prime Pumps 7;8.19;0.8;1.7 | ⑦ Shutdown 124;13.08;4.4;61.2 | ⑫ Check Floats 52;8.37;0;0 |
| ③ Test Lines 1047;8.25;0.3;0.2 | ⑧ Drop Top Plug 15;11.05;0;0 | ⑬ End Job 14;8.38;0;0 |
| ④ Pump Fresh Water Spacer 30;8.15;0.9;0.2 | ⑨ Pump Displacement 103;10.88;3.9;1.3 | |
| ⑤ Pump Lead Cement 156;8.3;4;0.1 | ⑩ Slow Rate 500;8.34;8.3;74.5 | |

▼ **HALLIBURTON** | iCem® Service

Created: 2013-12-26 00:39:43, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 12/26/2013 3:26:28 AM

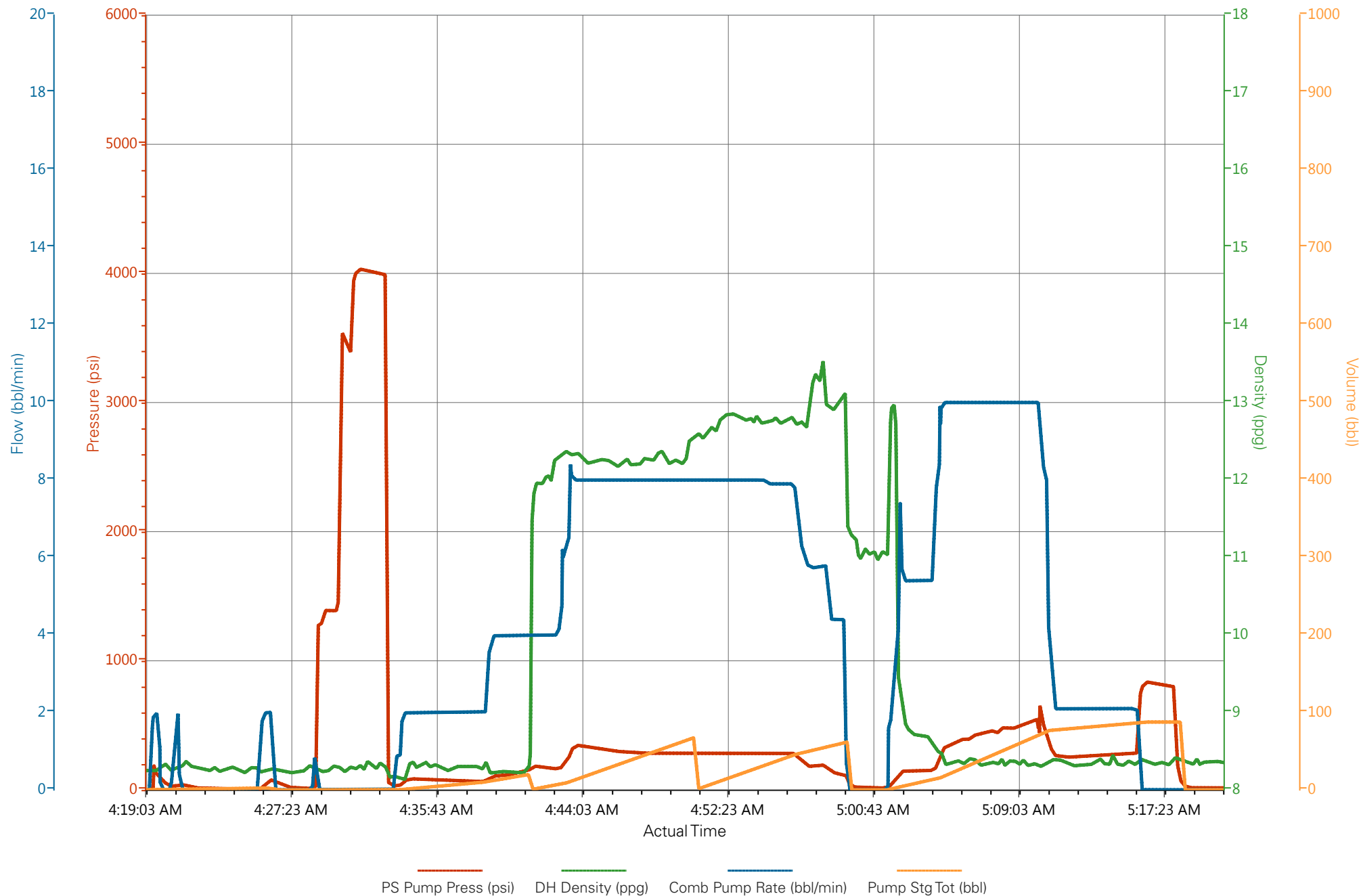
Well: RU-41-5

Representative: AL HARTL

Sales Order #: 900993856

ELITE 4: JOHN KEANE / ADAM ANDERSON

WPX - RU-41-5 - 9.625 IN SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: JOHN KEANE
Attention: CHUCK ROSS
Lease: RU
Well #: 41-5

Date: 12/26/2013
Date Rec.: 12/26/2013
S.O.#: 900990430
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	125 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	500 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	60 Deg
Total Dissolved Solids		670 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

Sales Order #: 900993856	Line Item: 10	Survey Conducted Date: 12/26/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21782
Well Name: RU		Well Number: 41-5
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	12/26/2013
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	AL HARTL
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 #: 900993856	Line Item: 10	Survey Conducted Date: 12/26/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21782
Well Name: RU		Well Number: 41-5
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	12/26/2013

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.	4.5
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 #: 900993856	Line Item: 10	Survey Conducted Date: 12/26/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21782
Well Name: RU		Well Number: 41-5
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	90
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