
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**RU 11-5
Rulison
Garfield County , Colorado**

**Cement Surface Casing
17-Jan-2014**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123444	Quote #:	Sales Order #: 901048122
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: RU		Well #: 11-5	API/UWI #:
Field:	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Contractor: Nabors		Rig/Platform Name/Num: Nabors 576	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc 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	9	371353	HYDE, DUSTIN C	9	453940	KEANE, JOHN Donovon	9	486519

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10567589C	60 mile	10713212	60 mile	10998512	60 mile	11259882	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
01/17/2014	9	1						
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top Bottom	Called Out	17 - Jan - 2014	04:30 MST
Form Type BHST	On Location	17 - Jan - 2014	09:15 MST
Job depth MD 1151. ft Job Depth TVD 1151. ft	Job Started	17 - Jan - 2014	15:59 MST
Water Depth Wk Ht Above Floor 4. ft	Job Completed	17 - Jan - 2014	17:00 MST
Perforation Depth (MD) From To	Departed Loc	17 - Jan - 2014	18:00 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					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
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	4	

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
2	VersaCem Lead	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	8	13.75
	13.75 Gal	FRESH WATER							
3	VersaCem Tail	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	8	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		87.00	bbl	8.34	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	87.7	Shut In: Instant		Lost Returns		Cement Slurry	127.8	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	35	Actual Displacement	87.7	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	36.77 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					

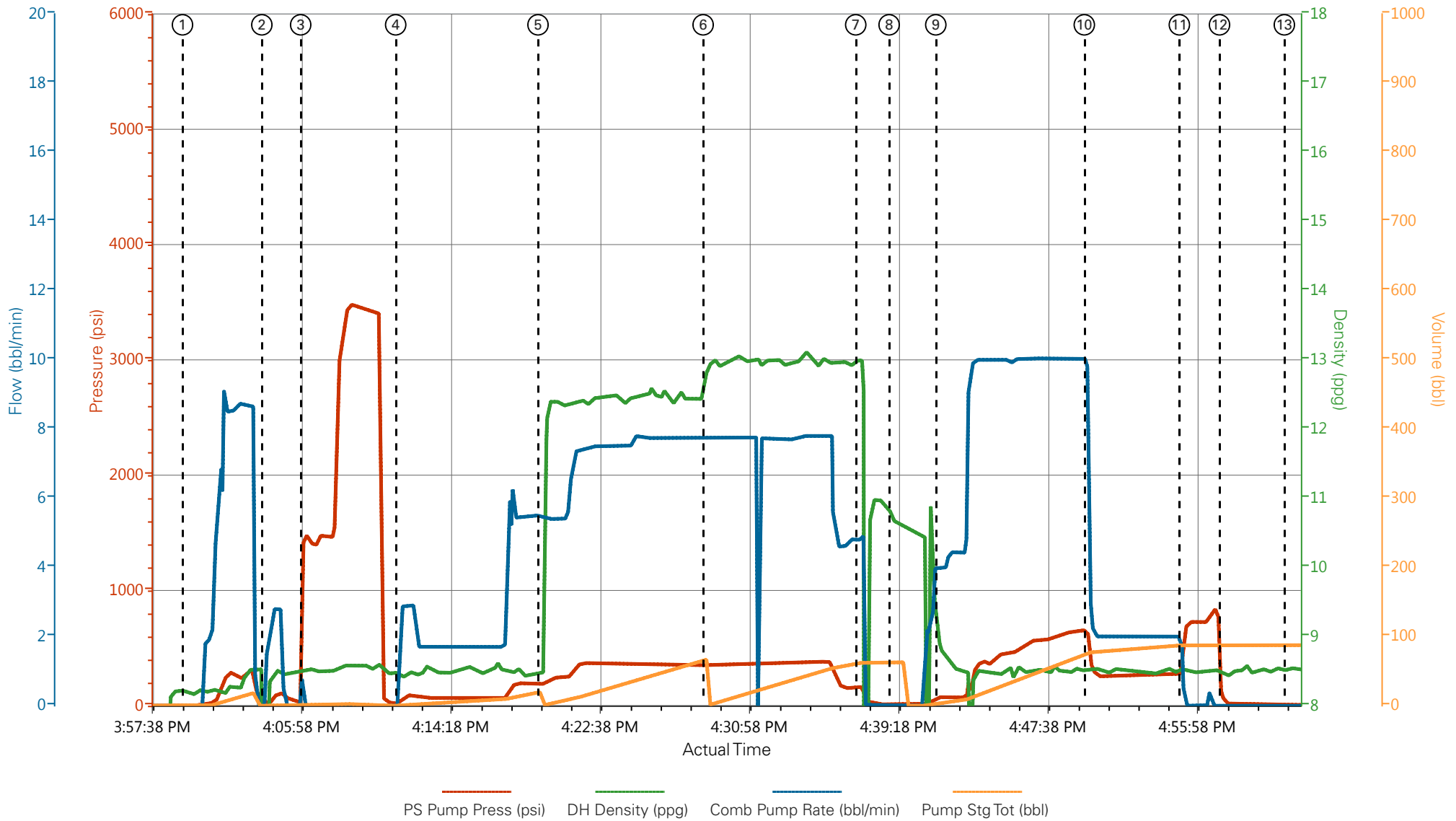
The Road to Excellence Starts with Safety

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Well Name: RU		Well #: 11-5	API/UWI #:
Field:	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: Nabors		Rig/Platform Name/Num: Nabors 576	
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	01/17/2014 04:30							
Pre-Convoy Safety Meeting	01/17/2014 07:00							WITH HES
Arrive At Loc	01/17/2014 09:15							RIG PULLING DRILL PIPE UPON HES ARRIVAL
Assessment Of Location Safety Meeting	01/17/2014 09:30							WITH HES
Pre-Rig Up Safety Meeting	01/17/2014 14:30							WITH HES
Rig-Up Equipment	01/17/2014 14:40							
Pre-Job Safety Meeting	01/17/2014 15:50							WITH HES, WPX, AND NABORS 576
Start Job	01/17/2014 15:59							TP 1160 FT, TD 1151.2 FT, SHOE 36.77 FT, HOLE 13.5 IN, CSG 9.625 IN 32.3 LB/FT H-40, MWT 10.3 LB/GAL, RIG CIRCULATING 10 AT BBL/MIN
Pump Water	01/17/2014 16:03		2	2			115.0	FILL LINES
Test Lines	01/17/2014 16:06							LOW TEST AT 1389 PSI, HIGH TEST AT 3470 PSI, PRESSURE HOLDING
Pump Spacer	01/17/2014 16:11		4	186				FRESH WATER, RETURNS AT 2 BBL AWAY
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Lead Cement	01/17/2014 16:19		8	67.8			250.0	MIXED AT 12.3 LB/GAL, 2.38 FT3/SK, 13.75 GAL/SK, 160 SKS, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Pump Tail Cement	01/17/2014 16:28		8	60.1			357.0	MIXED AT 12.8 LB/GAL, 2.11 FT3/SK, 11.75 GAL/SK, 160 SKS, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Shutdown	01/17/2014 16:37						165.0	
Drop Plug	01/17/2014 16:38							PLUG LAUNCHED
Pump Displacement	01/17/2014 16:41		10	77			627.0	FRESH WATER
Slow Rate	01/17/2014 16:49		2	10			253.0	SLOWED AT 77 BBL AWAY
Bump Plug	01/17/2014 16:55		2				288.0	PLUG BUMPED AT CALCULATED DISPLACEMENT
Check Floats	01/17/2014 16:57						839.0	FLOATS HOLDING, .5 BBL RETURNED TO THE TRUCK
End Job	01/17/2014 17:00							GOOD CIRCULATION THROUGHOUT THE JOB, PIPE WAS STATIC, NO ADD HOURS CHARGED, NO DERRICK CHARGE, RIG NO SUGAR, 35 BBL CEMENT CIRCULATED TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	01/17/2014 17:07							WITH HES
Rig-Down Equipment	01/17/2014 17:15							
Pre-Convoy Safety Meeting	01/17/2014 17:50							WITH HES
Crew Leave Location	01/17/2014 18:00							
Comment	01/17/2014 18:01							THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

WPX - RU-11-5 - 9.625 IN SURFACE



- ① Start Job 7;8.22;0;0
- ② Fill Lines 26;1.79;0;0
- ③ Test Lines 1503;8.49;0;1;2.4
- ④ Pump Fresh Water Spacer 23;8.48;1.7;0.1
- ⑤ Pump Lead Cement 190;8.48;5.5;0
- ⑥ Pump Tail Cement 357;12.86;7.8;66.7
- ⑦ Shutdown 165;12.98;4.8;61.5
- ⑧ Drop Top Plug 12;10.64;0;62.8
- ⑨ Pump Displacement 74;8.98;4;2.3
- ⑩ Slow Rate 627;8.52;8.5;76.5
- ⑪ Bump Plug 451;8.54;1.4;87.5
- ⑫ Check Floats 66;8.53;0;87.6
- ⑬ End Job 6;8.51;0;87.6

▼ **HALLIBURTON** | iCem® Service

Created: 2014-01-17 15:23:37, Version: 3.0.121

[Edit](#)

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/17/2014 3:25:44 PM

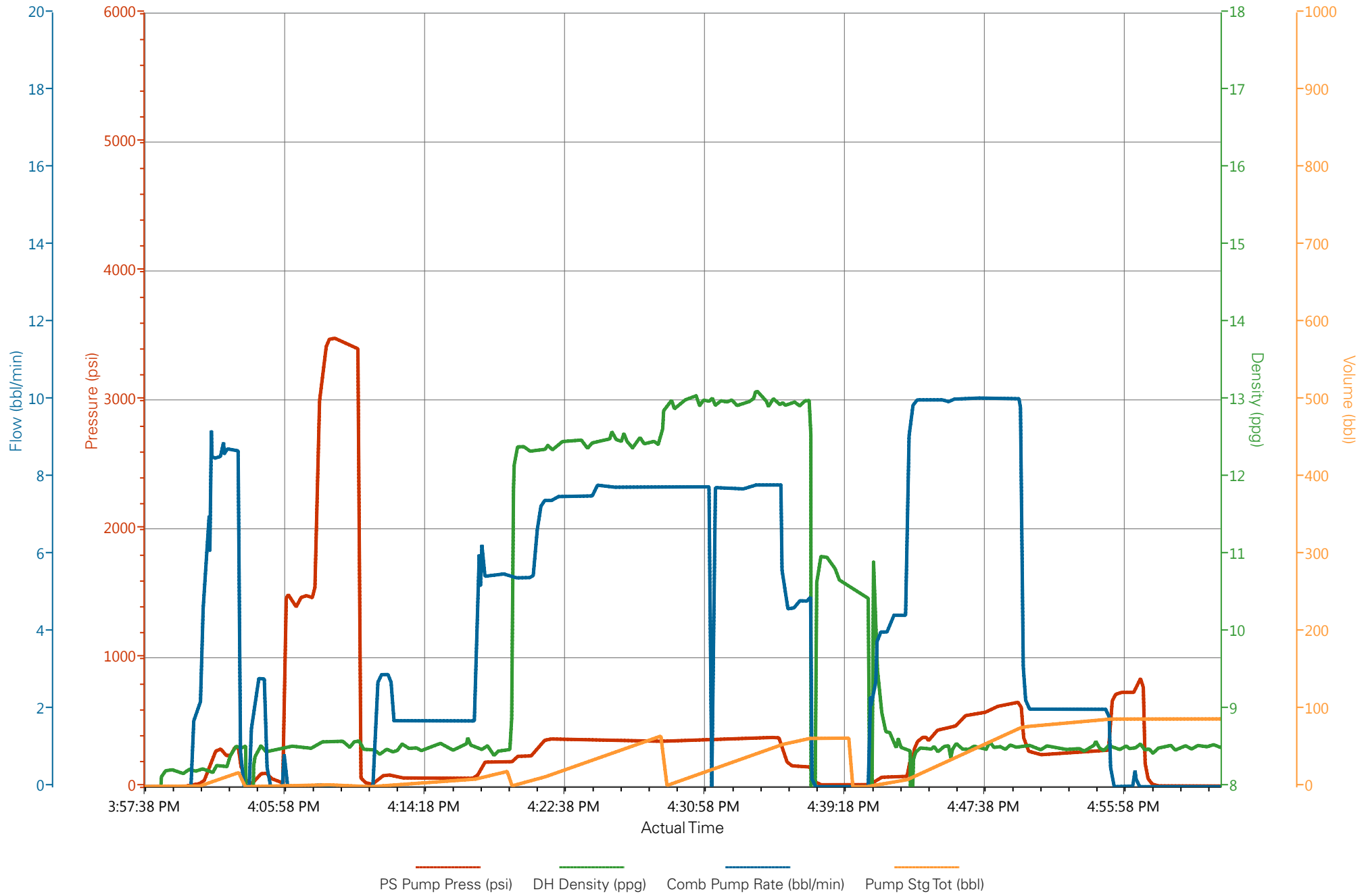
Well: RU-11-5

Representative: AL HARTL

Sales Order #: 901048122

ELITE 3: JOHN KEANE / BRENT BANKS

WPX - RU-11-5 - 9.625 IN SURFACE



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

HALLIBURTON

Water Analysis Report

Company: WPX

Date: 1/17/2014

Submitted by: JOHN KEANE

Date Rec.: 1/17/2014

Attention: CHUCK ROSS

S.O.# 901048122

Lease RU

Job Type: SURFACE

Well # 41948

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	250 Mg / L
Calcium (Ca)	<i>500</i>	250 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>	50 Deg
Total Dissolved Solids		690 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 #: 901048122	Line Item: 10	Survey Conducted Date: 1/18/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) AFEYSUQJ5LKY4QYWAAA
Well Name: RU		Well Number: 11-5
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	1/18/2014
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

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Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) AFEYSUQJ5LKY4QYWAAA
Well Name: RU		Well Number: 11-5
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	1/18/2014
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	3
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) AFEYSUQJ5LKY4QYWAAA
Well Name: RU		Well Number: 11-5
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	95
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	95
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