
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**Federal 298-34-1
SULFUR CREEK
Rio Blanco County , Colorado**

Squeeze Perfs
29-Jan-2014

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2934841	Quote #:	Sales Order #: 901072895
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: Federal		Well #: 298-34-1	API/UWI #: 05-103-09795
Field: SULFUR CREEK	City (SAP): RANGELY	County/Parish: Rio Blanco	State: Colorado
Lat: N 39.837 deg. OR N 39 deg. 50 min. 13.308 secs.		Long: W 108.374 deg. OR W -109 deg. 37 min. 32.376 secs.	
Contractor: WPX		Rig/Platform Name/Num: Workover	
Job Purpose: Squeeze Perfs			
Well Type: Development Well		Job Type: Squeeze Perfs	
Sales Person: MAYO, MARK		Srvc Supervisor: DEUSSEN, EDWARD	MBU ID Emp #: 485182

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DAVIS, JOSEPH	4.5	558939	DEUSSEN, EDWARD Eric	4.5	485182	EICKHOFF, ROBERT Edward	4.5	495311
KUKUS, CARLTON Dean	4.5	458577	ROMKEE, DALE Alan	4.5	488215			

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

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	29 - Jan - 2014	10:00	MST
Form Type		BHST	Job Started	29 - Jan - 2014	11:30	MST
Job depth MD	4043. ft	Job Depth TVD	Job Completed	29 - Jan - 2014	12:53	MST
Water Depth		Wk Ht Above Floor	Departed Loc	29 - Jan - 2014	14:23	MST
Perforation Depth (MD)	<i>From</i>	<i>To</i>				

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			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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			bbl	8.33	.0	.0	.0		
2	15.8 ppg PlugCem Cement	PLUGCEM (TM) SYSTEM (452969)		sacks	15.8	1.15	4.98		4.98	
		HALAD(R)-344, 50 LB (100003670)								
		HALAD(R)-413, 50 LB (100003738)								
		HR-800, 50 LB SACK (101619742)								
		FRESH WATER								
3	Displacement Fluid			bbl	8.34	.0	.0	.0		
Calculated Values		Pressures			Volumes					
Displacement		Shut In: Instant			Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min			Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min			Spacers		Load and Breakdown		Total Job	
Rates										
Circulating			Mixing			Displacement			Avg. Job	
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						

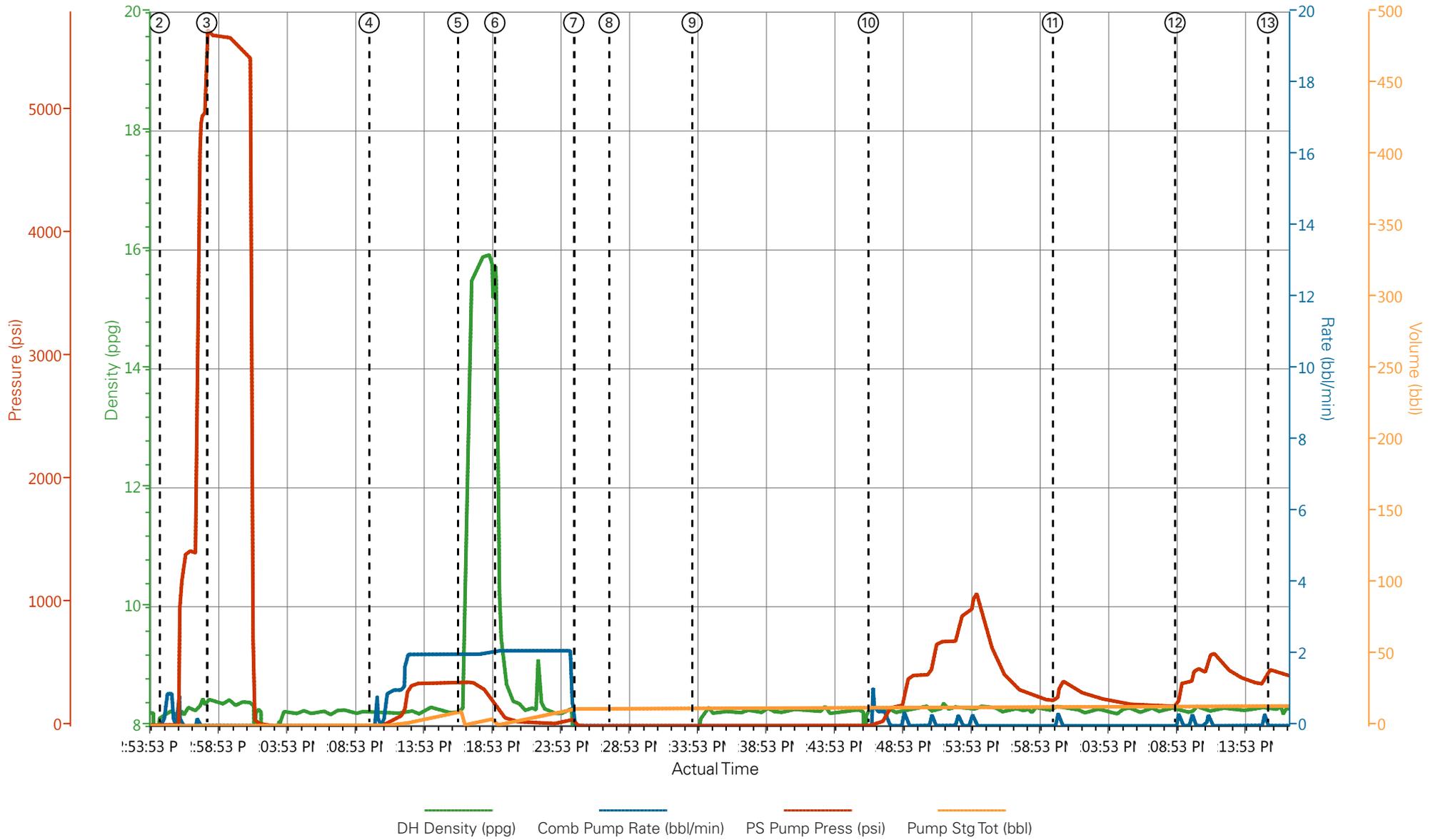
The Road to Excellence Starts with Safety

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Legal Description:			
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Contractor: WPX		Rig/Platform Name/Num: Workover	
Job Purpose: Squeeze Perfs			Ticket Amount:
Well Type: Development Well		Job Type: Squeeze Perfs	
Sales Person: MAYO, MARK		Srvc Supervisor: DEUSSEN, EDWARD	MBU ID Emp #: 485182

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive At Loc	01/29/2014 11:30							CREW TRAVELLED FROM PREVIOUS WPX SQUEEZE LOCATION
Assessment Of Location Safety Meeting	01/29/2014 11:40							
Pre-Rig Up Safety Meeting	01/29/2014 11:45							ALL HES PERSONNEL
Rig-Up Equipment	01/29/2014 11:50							
Pre-Job Safety Meeting	01/29/2014 12:30							ALL HES PERSONNEL
Start Job	01/29/2014 12:53							TUBING @ 4043', HOLES IN CASING @ 3981' - 4014', 4 1/2" CASING 10.5 LB, 2 3/8" 4.7 LB TUBING
Other	01/29/2014 12:54		1	2			18.0	FILL LINES
Pressure Test	01/29/2014 12:58							PRESSURED UP TO 5622 PSI - PRESSURE HELD
Pump Spacer 1	01/29/2014 13:10		2	10			340.0	FRESH WATER
Pump Tail Cement	01/29/2014 13:16		2	4.2			185.0	20 SKS, 15.8 PPG, 1.15 YIELD, 4.98 GAL/SK
Pump Displacement	01/29/2014 13:19		2	12.8			66.0	FRESH WATER - SHUTDOWN WHEN PRESSURE STARTED TO RISE
Shutdown	01/29/2014 13:25							
Other	01/29/2014 13:27							PULL UP OUT OF HOLE 10 STANDS
Reverse Circ Well	01/29/2014 13:33							RIG REVERSE OUT - 1/2 BBL CEMENT REVERSED OUT

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Water	01/29/2014 13:46		0.5	0.5			1080.0	PRESSURE UP, SHUTDOWN, HESITATE
Pump Water	01/29/2014 14:00		0.5	0.4			366.0	PRESSURE UP, SHUTDOWN, HESITATE
Pump Water	01/29/2014 14:08		0.5	0.3			602.0	PRESSURE UP, SHUTDOWN, HESITATE
Pump Water	01/29/2014 14:15		0.5	0.3			462.0	PRESSURE UP, SHUTDOWN, HESITATE
Pump Water	01/29/2014 14:19		0.5	0.2	14.5		574.0	PRESSURE UP, SHUTDOWN, HESITATE
Shutdown	01/29/2014 14:21							
End Job	01/29/2014 14:23							NO MANIFOLD CHARGE, 20 LBS SUGAR USED
Pre-Rig Down Safety Meeting	01/29/2014 14:30							ALL HES PERSONNEL
Rig-Down Equipment	01/29/2014 14:45							
Pre-Convoy Safety Meeting	01/29/2014 15:45							ALL HES PERSONNEL
Crew Leave Location	01/29/2014 16:00							THANK YOU FOR USING HALLIBURTON - ED DEUSSEN AND CREW

WPX - FED 298-34-1 - PTA



- | | | | | | |
|--------------------------------|---------------------------------------|-----------------------------------|--------------------------------|------------------------------|--------------------------|
| ① Start Job 8.23;0;2;0 | ④ Pump Water Spacer 8.22;0;2;0 | ⑦ Shutdown -0.01;0;2;11.8 | ⑩ Pump Water 8.26;0;3;12.8 | ⑬ Pump Water 8.29;0;458;13.8 | ⑯ End Job 8.28;0;-1;13.8 |
| ② Fill Lines 8.16;0;2;0 | ⑤ Pump Cement 8.27;2;349;9.9 | ⑧ Pull Out Of Hole -0.07;0;0;11.8 | ⑪ Pump Water 8.33;0;207;13.5 | ⑭ Pump Water 8.28;0;563;13.8 | |
| ③ Pressure Test 8.5;0;5609;0.7 | ⑥ Pump Displacement 11.31;2.1;138;0.6 | ⑨ Rig Reverse Out 5.34;0;-1;11.8 | ⑫ Pump Water 8.26;0;3;195;13.6 | ⑮ Shutdown 8.24;0;49;13.8 | |

HALLIBURTON | iCem® Service

Created: 2014-01-29 12:37:38, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/29/2014 12:38:54 PM

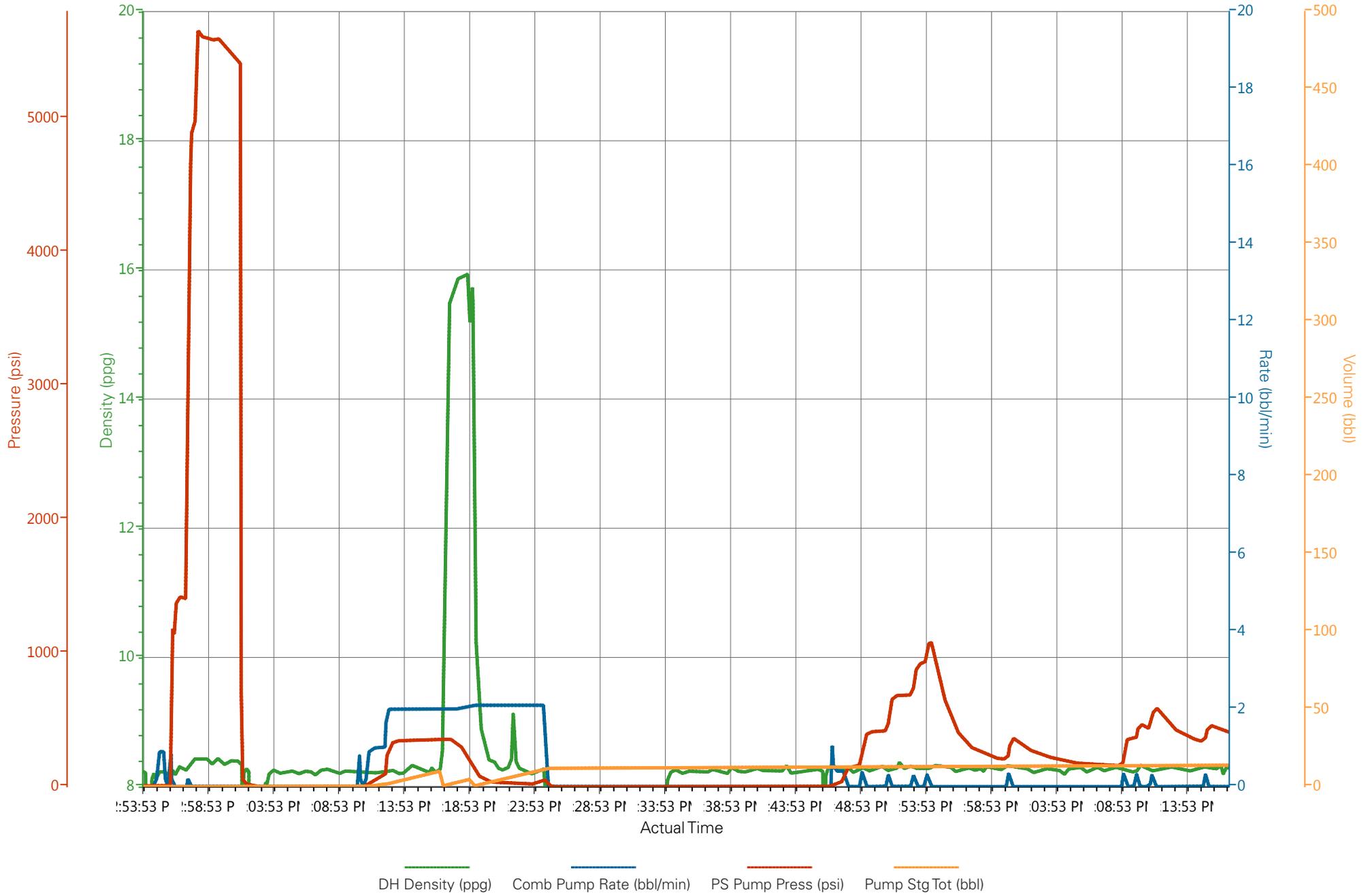
Well: FEDERAL 298-34-1

Representative: Billy Rorex

Sales Order #: 901072895

Elite #9: Ed Deussen / Rob Eickhoff

WPX - FED 298-34-1 - PTA



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

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: ED DEUSSEN
Attention: J.TROUT
Lease: FED
Well #: 298-34-1

Date: 1/29/2014
Date Rec.: 1/29/2014
S.O.#: 901072895
Job Type: PTA

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	32 Deg
Total Dissolved Solids		380 Mg / L

Respectfully: ED DEUSSEN

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 #: 901072895	Line Item: 10	Survey Conducted Date: 1/29/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: BILLY ROREX		API / UWI: (leave blank if unknown) 05-103-09795
Well Name: Federal		Well Number: 298-34-1
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Rio Blanco

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	1/29/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD DEUSSEN (HB57194)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	BILLY ROREX
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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Well Name: Federal		Well Number: 298-34-1
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Rio Blanco

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	1/29/2014
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)	4.5
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)	1.5
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	5
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)	No

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Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Rio Blanco

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Was this a Plug or a Squeeze Job? Please select the appropriate choice	Yes
Was this a Primary or a Remedial Job? Kick off plug, Plug to Abandon, LCM plug or Planned Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing leak	No
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 ?	No
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