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# **WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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

**Squeeze Perfs  
06-Feb-2014**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2934841	Quote #:	Sales Order #: 901096236
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
Contractor: WPX	Rig/Platform Name/Num: Workover		
Job Purpose: Squeeze Perfs			
Well Type: Development Well	Job Type: Squeeze Perfs		
Sales Person: MAYO, MARK	Srv Supervisor: CASTILLO, FRANCISCO	MBU ID Emp #: 513620	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CASTILLO, FRANCISCO P	8	513620	LYNGSTAD, FREDRICK D	8	403742	SINCLAIR, DAN J	8	338784
WILSON, BENJAMIN Wallace	8	533647						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025118	60 mile	10567589C	60 mile	11139330	60 mile	11259884	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
2/5/14	4	1	2/6/14	4	1			

**TOTAL** Total is the sum of each column separately

## Job

Formation Name	Top	Bottom	3275	Called Out	05 - Feb - 2014	06:00	MST
Formation Depth (MD)				On Location	05 - Feb - 2014	07:00	MST
Form Type		BHST		Job Started	05 - Feb - 2014	10:31	MST
Job depth MD	4075. ft	Job Depth TVD	4075. ft	Job Completed	06 - Feb - 2014	13:58	MST
Water Depth		Wk Ht Above Floor	3. ft	Departed Loc	06 - Feb - 2014	15:00	MST
Perforation Depth (MD)	From	To					

## 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			
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
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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
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Stage/Plug #: 1									
1	Fresh Water		67.00	bbl	8.33	.0	.0	1.5	
2	15.8 ppg PlugCem	PLUGCEM (TM) SYSTEM (452969)		sacks	15.8	1.15	5.01	2	5.01
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	5.01 Gal	FRESH WATER							
3	Displacement Fluid			bbl	8.34	.0	.0	2	
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant	0	Lost Returns	0	Cement Slurry		Pad	
Top Of Cement		5 Min	0	Cement Returns	0	Actual Displacement		Treatment	
Frac Gradient		15 Min	0	Spacers	0	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					

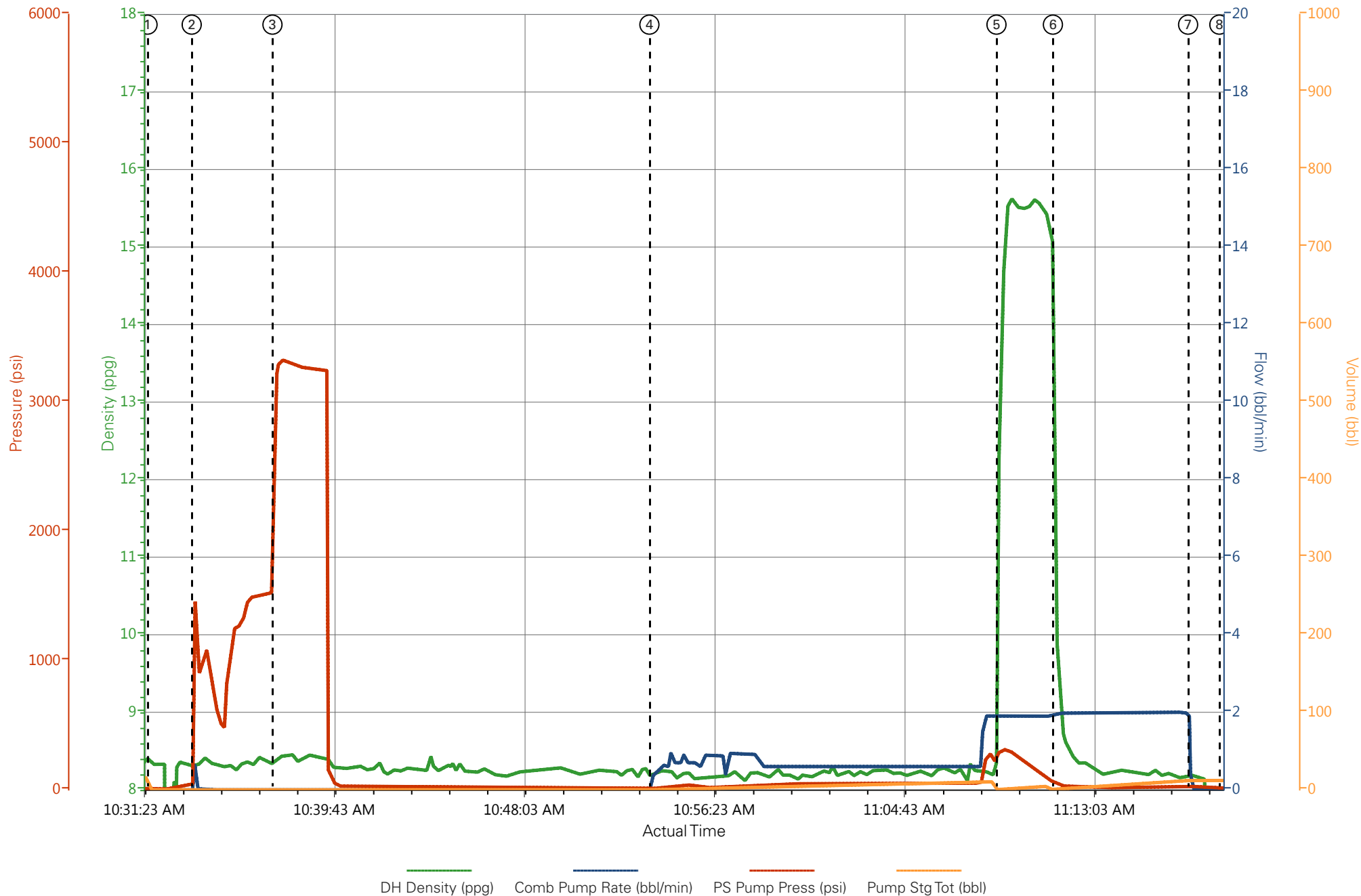
*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721		<b>Ship To #:</b> 2934841		<b>Quote #:</b>		<b>Sales Order #:</b> 901096236	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b>			
<b>Well Name:</b> Federal			<b>Well #:</b> 298-34-1			<b>API/UWI #:</b> 05-103-09795	
<b>Field:</b> SULFUR CREEK		<b>City (SAP):</b> RANGELY		<b>County/Parish:</b> Rio Blanco			<b>State:</b> Colorado
<b>Legal Description:</b>							
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.				<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 secs.			
<b>Contractor:</b> WPX			<b>Rig/Platform Name/Num:</b> Workover				
<b>Job Purpose:</b> Squeeze Perfs						<b>Ticket Amount:</b>	
<b>Well Type:</b> Development Well			<b>Job Type:</b> Squeeze Perfs				
<b>Sales Person:</b> MAYO, MARK			<b>Srvc Supervisor:</b> CASTILLO, FRANCISCO			<b>MBU ID Emp #:</b> 513620	

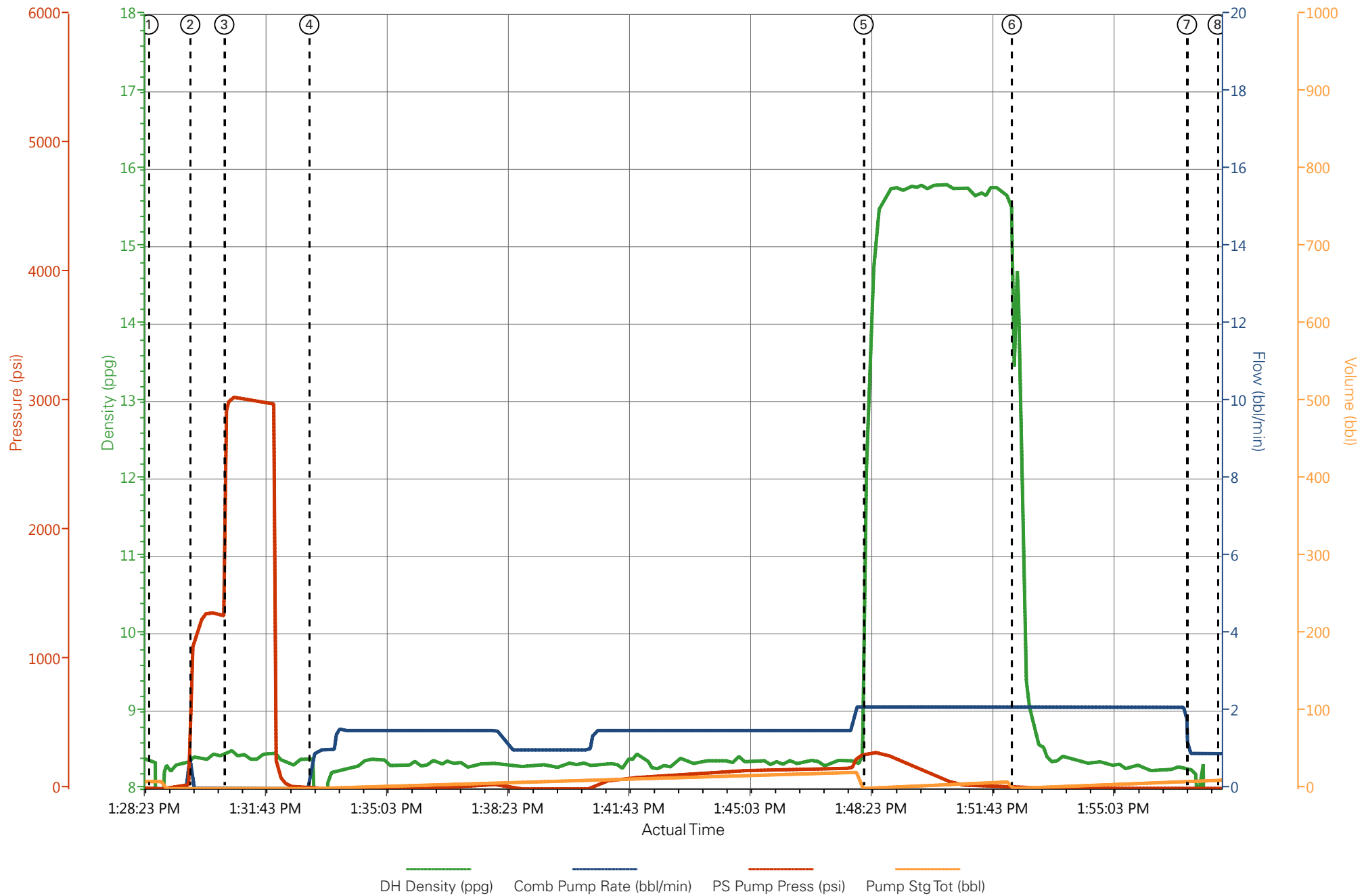
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/05/2014 06:00							ON LOCATION AT 07:00 HRS
Pre-Convoy Safety Meeting	02/05/2014 06:15							ALL HES PERSONEL
Crew Leave Location	02/05/2014 06:30							LEFT FROM CYCLONE 29 TO FED 298-34-1
Arrive At Loc	02/05/2014 07:00							
Assessment Of Location Safety Meeting	02/05/2014 07:30							ALL HES PERSONEL
Rig-Up Equipment	02/05/2014 07:45							1-ELITE, 2-660 BULK TRUCKS, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH
Rig-Up Completed	02/05/2014 10:00							
Pre-Job Safety Meeting	02/05/2014 10:10							ALL HES PERSONEL AND RIG CREW
Start Job	02/05/2014 10:31							TUB-2.375", 4.7#, N-80 AT 4075'
Pump Water	02/05/2014 10:32		1	1			25.0	FILL LINES
Pressure Test	02/05/2014 10:33		0.2	0.2				STALL OUT TEST WITH 1516 PSI
Pressure Test	02/05/2014 10:37		0.2	0.2				PRESSURE TEST LINES WITH 3300 PSI
Pump Spacer	02/05/2014 10:53		0.5	1.5			68.0	FRESH WATER
Pump Cement	02/05/2014 11:08		2	5			140.0	25 SKS, 15.8 PPG, 1.15 FT3/SK, 5.01 GAL/SK
Pump Displacement	02/05/2014 11:11		2	14			41.0	FRESH WATER TO BALANCE CEMENT PLUG

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	02/05/2014 11:17							
End Job	02/05/2014 11:18							
Safety Meeting - Pre Rig-Down	02/05/2014 11:20							
Safety Meeting - Departing Location	02/05/2014 12:50							NO INJURIES TO REPORT
Crew Leave Location	02/05/2014 13:00							MOVE OVER TO THE GOVERNMENT 498-4-1
Other	02/06/2014 04:59							THANK YOU FROM JAVIER CASTILLO AND CREW
Other	02/06/2014 11:59							DAY 2 / 2ND BALANCE PLUG
Arrive At Loc	02/06/2014 12:00							
Safety Meeting - Pre Rig-Up	02/06/2014 12:10							
Rig-Up Completed	02/06/2014 13:10							
Safety Meeting - Pre Job	02/06/2014 13:20							
Start Job	02/06/2014 13:28							TUB-2.375", 4.7#, J-55 SET AT 3275'
Pump Water	02/06/2014 13:29		0.5	0.5			25.0	FRESH WATER
Other	02/06/2014 13:30		0.2	0.2				STALL OUT PRESSURE HELD AT 1350 PSI
Pump Spacer	02/06/2014 13:33		1.5	21			241.0	FRESH WATER TO FILL UP THE WELL
Pump Cement	02/06/2014 13:48		2	8.6			24.0	42 SKS, 15.8 PPG, 1.15 FT3/SK, 5.01 GAL/SK
Pump Displacement	02/06/2014 13:52		2	11			3.0	FRESH WATER
Shutdown	02/06/2014 13:57							
End Job	02/06/2014 13:58							
Safety Meeting - Pre Rig-Down	02/06/2014 14:00							NO INJURIES TO REPORT
Safety Meeting - Departing Location	02/06/2014 14:55							
Crew Leave Location	02/06/2014 15:00							MOVE TO GOVERNMENT 498-4-1

# WPX FEDERAL 298-34-1 BALANCE PLUG



# WPX FED 298-34-1 BALANCE PLUG-B



# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: J.Trout

Lease: FEDERAL

Well #: 298-34-1

Date: 2/5/2014

Date Rec.: 2/5/2014

S.O.#: 901096236

Job Type: SQUEEZE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>200</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>32</b> Deg
Total Dissolved Solids		<b>850</b> Mg / L

Respectfully: JAVIER CASTILLO

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 use.