

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 14-2

**Aztec 1000**

# **Post Job Summary**

## **Cement Surface Casing**

Date Prepared: 03/24/2014

Submitted by: Grand Junction Cement Engineering

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3191093	Quote #:	Sales Order #: 0901206022
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Josh Garibay	
Well Name: WPX ENERGY	Well #: PA 14-2	API/UWI #: 05-045-22137-00	
Field: PARACHUTE	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SW-2-7S-95W-2021FSL-1564FWL			
Contractor:		Rig/Platform Name/Num: AZTEC 1000	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\H105431		Srcv Supervisor: Edward Deussen	
<b>Job</b>			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1108ft Job Depth TVD
Water Depth	Wk Ht Above Floor
Perforation Depth (MD)	From To

### Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Open Hole Section			13.5				0	1108		0
Casing		9.625	9.001	32.3	8 RD	H-40	0	1108	0	0

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe				1108	Top Plug	9.625	1	HES
Float Shoe					Bottom Plug			
Float Collar					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/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	50	bbl	8.34			4.0		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Tail Cement	VARICEM (TM) CEMENT	325	Sack/Ton	12.8	2.11		7.5	11.77	
			11.71 Gal	FRESH WATER						

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Displacement	Displacement	83.8	bbbl	8.34			10.0	
<b>Cement Left In Pipe</b>		<b>Amount</b>	44 ft		<b>Reason</b>		Shoe Joint		
<b>Comment</b>									

# Summary Report



Sales Order #: 0901206022  
WO #: 0901206022  
PO/AFE #: NA

Crew: \_\_\_\_\_

Job Start Date: 3/24/2014

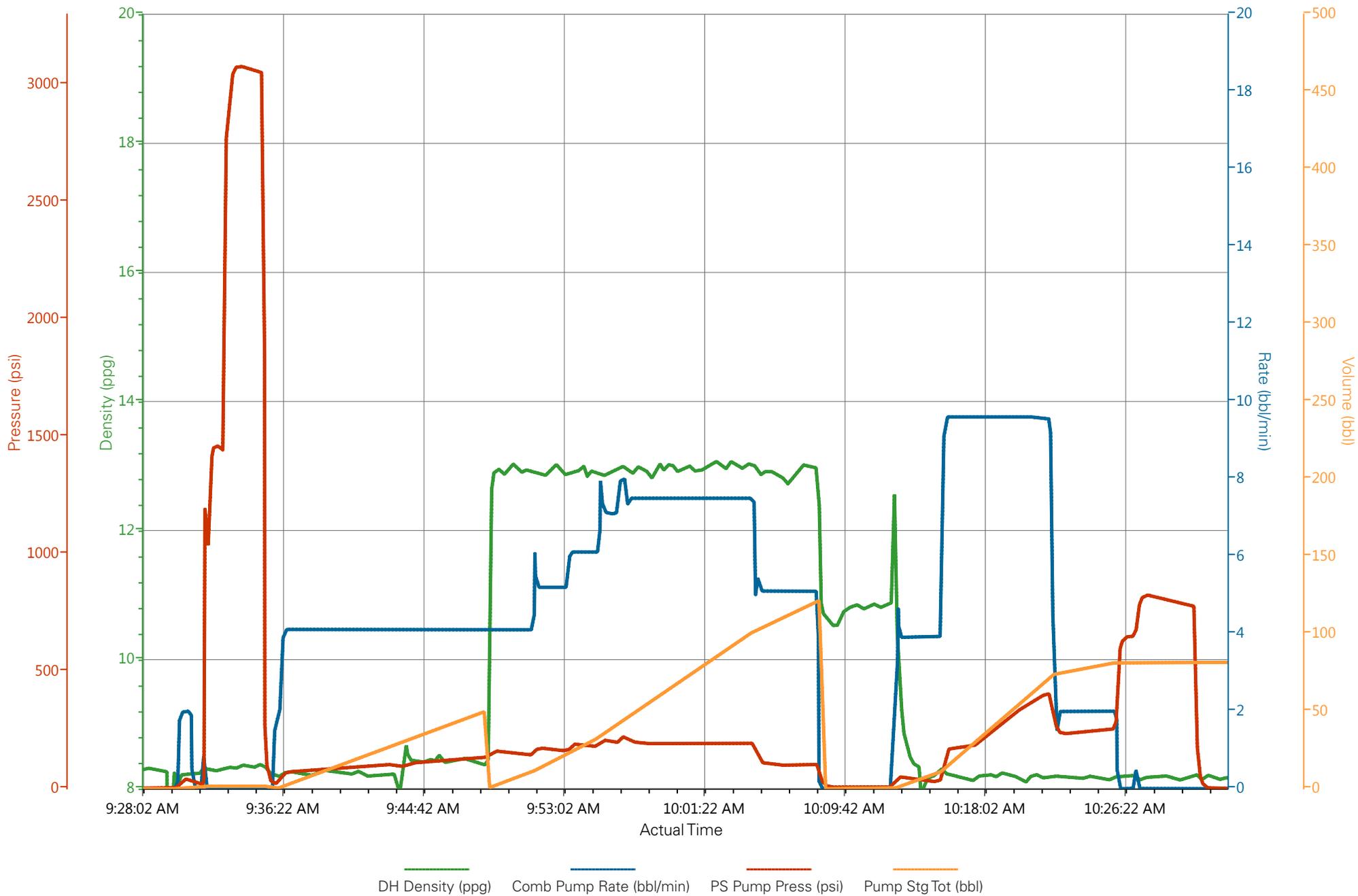
<b>Customer:</b>	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	<b>Field:</b>	PARACHUTE	<b>Job Type:</b>	CMT SURFACE CASING BOM
<b>UWI / API Number:</b>	05-045-22137-00	<b>County/Parish:</b>	GARFIELD	<b>Service Supervisor:</b>	Edward Deussen
<b>Well Name:</b>	WPX ENERGY	<b>State:</b>	COLORADO		
<b>Well No:</b>	PA 14-2	<b>Latitude:</b>	39.465023	<b>Cust Rep Name:</b>	Josh Garibay
		<b>Longitude:</b>	-107.969365	<b>Cust Rep Phone #:</b>	
		<b>Sect / Twn / Rng:</b>	2/7/95		

Remarks:		
<b>The Information Stated Herein Is Correct</b>	Customer Representative Signature	Date
	Customer Representative Printed Name	

### 3.1 Job Event Log

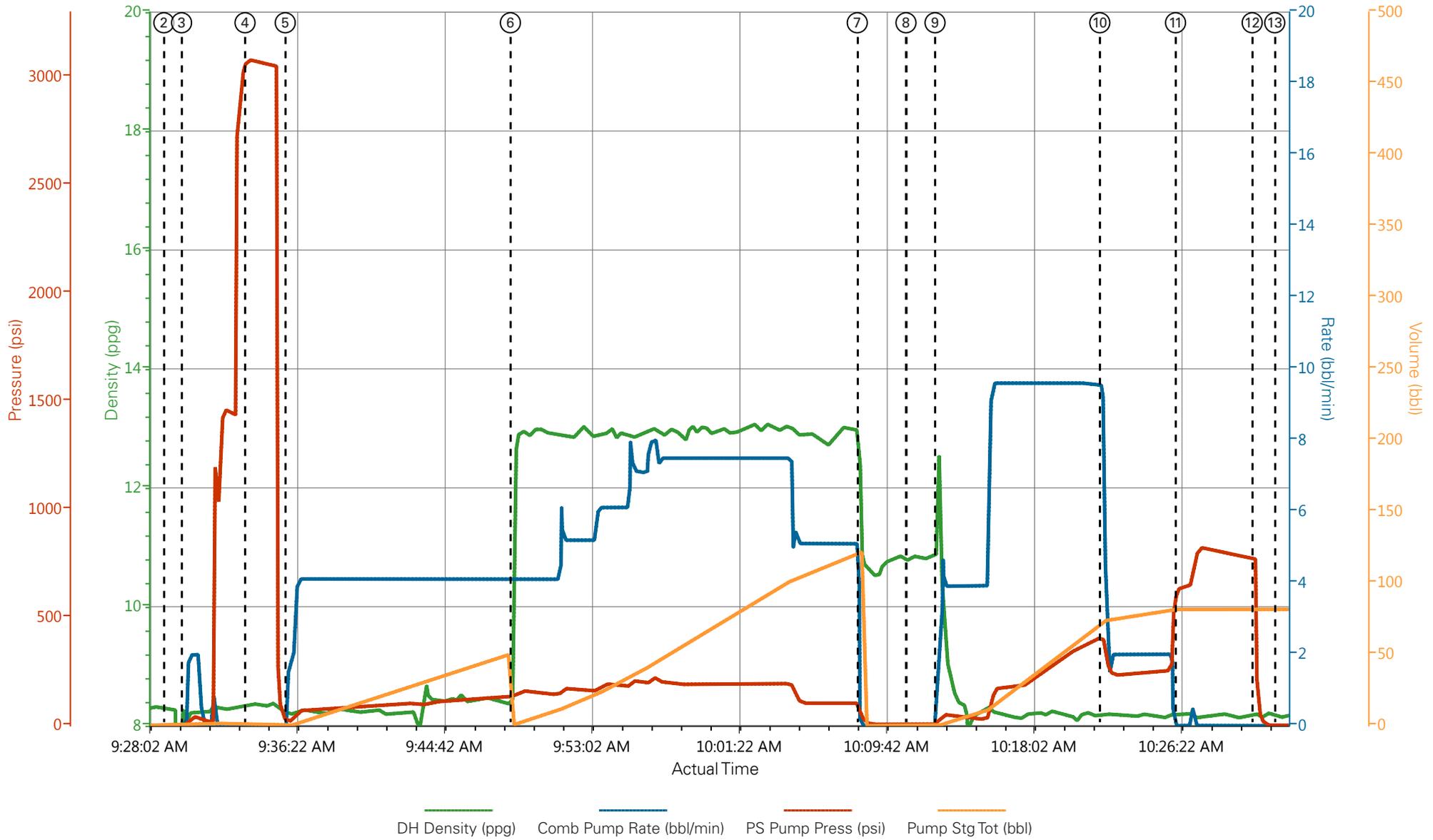
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/24/2014	09:15:00	USER					All personnel on site
Event	2	Start Job	Start Job	3/24/2014	09:29:00	USER					TD 1108', TP 1108', SJ 43.61', Mud 10.5 ppg, 13 1/2" OH
Event	3	Prime Pumps	Prime Lines	3/24/2014	09:30:00	USER	8.32	2.0	38	2.0	
Event	4	Test Lines	Test Lines	3/24/2014	09:33:35	COM5			3080		Pressure held well
Event	5	Pump Spacer 1	Pump H2O Spacer	3/24/2014	09:35:51	COM5	8.27	4.0	135	50.0	50 bbls per company rep. - Fresh Water
Event	6	Pump Tail Cement	Pump Tail Cement	3/24/2014	09:48:35	COM5	12.8	7.5	202	122.1	325 sks, 12.8 ppg, 2.11 yield, 11.77 gal/sk
Event	7	Other	Shutdown/Wash Up	3/24/2014	10:08:12	COM5					Wash up on top of plug
Event	8	Drop Top Plug	Drop Top Plug	3/24/2014	10:10:57	USER					
Event	9	Pump Displacement	Pump Displacement	3/24/2014	10:12:36	COM5	8.30	10.0	408	83.8	Fresh Water
Event	10	Slow Rate	Slow Rate	3/24/2014	10:21:55	USER	8.34	2.0	251	10.0	Good returns throughout
Event	11	Bump Plug	Bump Plug	3/24/2014	10:26:12	COM5			270		22 bbls cement to surface
Event	12	Other	Check Floats	3/24/2014	10:30:32	COM5			823		Floats held - 1/2 bbl back
Event	13	End Job	End Job	3/24/2014	10:31:49	COM5					40 lbs sugar used
Event	14	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/24/2014	10:45:00	USER					
Event	15	Rig-Up Equipment	Rig-Up Equipment	3/24/2014	11:00:00	USER					
Event	16	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/24/2014	11:45:00	USER					
Event	17	Crew Leave Location	Crew Leave Location	3/24/2014	12:00:00	USER					Thank you for using Halliburton-Ed Deussen

WPX - PA 14-2 - 9 5/8" SURFACE

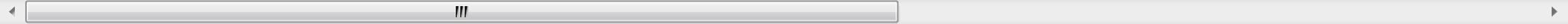


DH Density (ppg)    Comb Pump Rate (bbl/min)    PS Pump Press (psi)    Pump Stg Tot (bbl)

# WPX - PA 14-2 - 9 5/8" SURFACE



- ① Pre-Job Safety Meeting 8.31;0;6;21
- ② Start Job 8.26;0;2;0
- ③ Prime Lines 4.95;0;1;0
- ④ Test Lines 8.33;0;3078;1.6
- ⑤ Pump H2O Spacer 8.27;1.7;19;0.1
- ⑥ Pump Tail Cement 10.01;4.1;138;0.7
- ⑦ Shutdown/Wash Up 11.29;0;64;121.6
- ⑧ Drop Top Plug 10.78;0;6;0
- ⑨ Pump Displacement 12.58;1.8;17;0.3
- ⑩ Slow Rate 8.18;9;405;72.9
- ⑪ Bump Plug
- ⑫ Check Floa



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Created: 2014-03-24 08:20:07, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 3/24/2014 9:05:00 AM

Well: PA 14-2

Representative: Josh Garibay

Sales Order #: 901206022

Elite #9: Ed Deussen / Rob Eickhoff

# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: ED DEUSSEN

Attention: J.TROUT

Lease PA

Well # 14-2

Date: 3/24/2014

Date Rec.: 3/24/2014

S.O.# 901206022

Job Type: 9 5/8" Surface

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6.5</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>&lt;200</b> Mg / L
Temp	<i>40-80</i>	<b>47</b> Deg
Total Dissolved Solids		<b>290</b> 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 i

<b>Sales Order #:</b> 0901206022	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 3/24/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> 05-045-22137-00
<b>Well Name:</b> WPX ENERGY		<b>Well Number:</b> 0080226543
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> 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	3/24/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB57194
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

<b>CUSTOMER SIGNATURE</b>
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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	3/24/2014
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	5
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> GARFIELD

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0