

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 341-27

**Nabors 576**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 12/08/2014  
Job Date: 11/29/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3207559	Quote #:	Sales Order #: 0901876175
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: FEDERAL	Well #: PA 341-27	API/UWI #: 05-045-22238-00	
Field: PARACHUTE	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 27-6S-95W-2352FNL-647FEL			
Contractor:		Rig/Platform Name/Num: Nabors 576	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Andrew Brennecke	

### Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	2935ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 3
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
Casing		9.625	9.001	32.3			0	30	0	0
Casing		9.625	9.001	32.3		H-40	0	2935		0
Open Hole Section			13.5				0	2935		0

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		2935	Top Plug	9.625	1	HES
Float Shoe					Bottom Plug			
Float Collar	9.625	1		2890.97	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	20	bbl	8.34			4		
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	

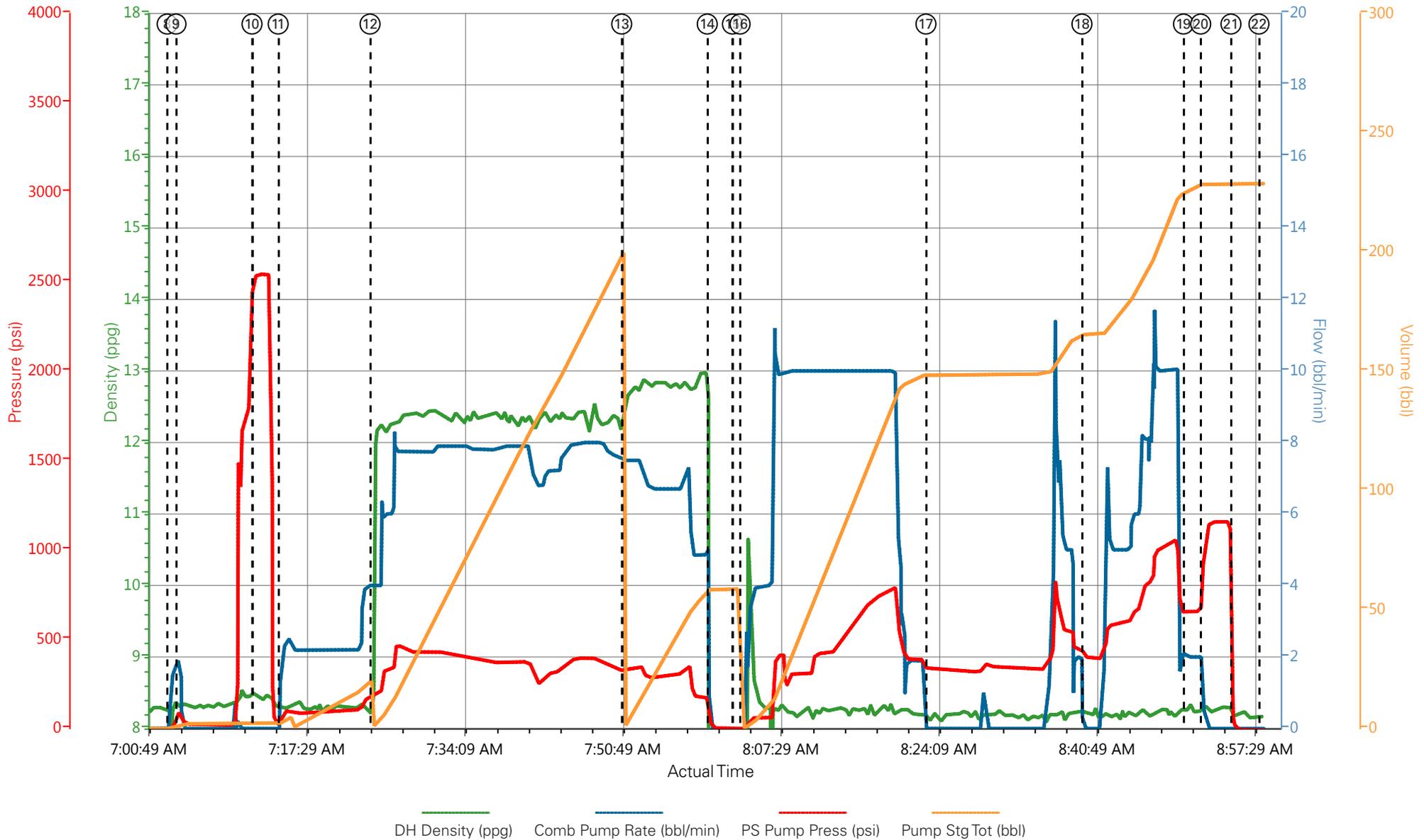
2	VariCem GJ1	VARICEM (TM) CEMENT	450	sack	12.3	2.38		8	13.77	
13.70 Gal		FRESH WATER								
0.25 lbm		POLY-E-FLAKE (101216940)								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	VariCem GJ1	VARICEM (TM) CEMENT	155	sack	12.8	2.11		7	11.77	
0.25 lbm		POLY-E-FLAKE (101216940)								
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	
4	Fresh Water Displacement	Fresh Water Displacement	227.5	bbl	8.34			10		
<b>Cement Left In Pipe</b>		<b>Amount</b>	44 ft		<b>Reason</b>			Shoe Joint		
<b>Comment</b>										

1.1 Job Event Log

Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	11/28/2014	18:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	11/28/2014	21:30:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	11/28/2014	22:00:00	USER					
Event	4	Arrive At Loc	11/28/2014	23:00:00	USER					RIG RUNNING CASING, BLEW LEAD CEMENT INTO SILO
Event	5	Pre-Rig Up Safety Meeting	11/29/2014	04:00:00	USER					
Event	6	Rig-Up Completed	11/29/2014	06:30:33	USER					1-ELITE, 1-660 BULK TRAILER, 1700-SILO, 9.625"QUICK LATCH PLUG CONTAINER, 2"IRON
Event	7	Pre-Job Safety Meeting	11/29/2014	06:45:00	USER					ALL HES AND RIG CREW PRESENT
Event	8	Start Job	11/29/2014	07:02:40	USER	8.34	0.00	4.00	0.0	TD-2960', TP-2935', SJ-44.03, CSG-9.625", 32.3#, OH-13.5", MUD-10.9 PPG
Event	9	Prime Pumps	11/29/2014	07:03:04	COM5	8.33	2.00	131.00	2.0	
Event	10	Test Lines	11/29/2014	07:12:01	COM5	8.40	0.30	2532.00	2.1	ALL PRESSURE HELD ON LINES
Event	11	Pump Spacer 1	11/29/2014	07:14:46	COM5	8.32	4.00	166.00	20.0	FRESH WATER
Event	12	Pump Lead Cement	11/29/2014	07:24:27	COM5	12.33	8.00	383.00	190.7	450SKS, 12.3PPG, 2.38CF/SK, 13.77GAL SK
Event	13	Pump Tail Cement	11/29/2014	07:51:00	COM5	12.81	7.00	335.00	58.2	155SKS, 12.8PPG, 2.11CF/SK, 11.77GAL/SK
Event	14	Shutdown	11/29/2014	08:00:01	USER					
Event	15	Drop Plug	11/29/2014	08:02:40	USER					PLUG DROP VERIFIED BY TATTLE TALE, CLEANED PUMPS AND LINES ON TOP OF PLUG
Event	16	Pump Displacement	11/29/2014	08:03:29	COM5	8.39	10.00	1052.00	217.5	FRESH WATER
Event	17	Shutdown	11/29/2014	08:23:05	USER	8.38	0.00	329.00	148.3	SHUTDOWN FOR DREDGE PUMPS TO KEEP UP
Event	18	Shutdown	11/29/2014	08:39:32	USER	8.39	0.00	402.00	165.3	SHUT DOWN FOR DREDGE PUMPS TO KEEP UP
Event	19	Slow Rate	11/29/2014	08:50:14	USER	8.33	2.00	654.00	10.0	SLOW RATE FOR LAST 10 BBLS

Event	20	Bump Plug	11/29/2014	08:52:03	COM5	8.33	0.50	670.00	227.5	PLUG BUMPED
Event	21	Check Floats	11/29/2014	08:55:15	USER	8.33	0.00	1156.00	227.5	FLOATS HELD, 60 BBLS CEMENT TO SURFACE
Event	22	End Job	11/29/2014	08:58:12	USER	8.33	0.00	0.00	227.5	GOOD RETURNS THROUGH OUT JOB, 1 BBL FLOW BACK TO DISPLACEMENT TANKS
Event	23	Crew Leave Location	11/29/2014	10:30:00	USER					THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

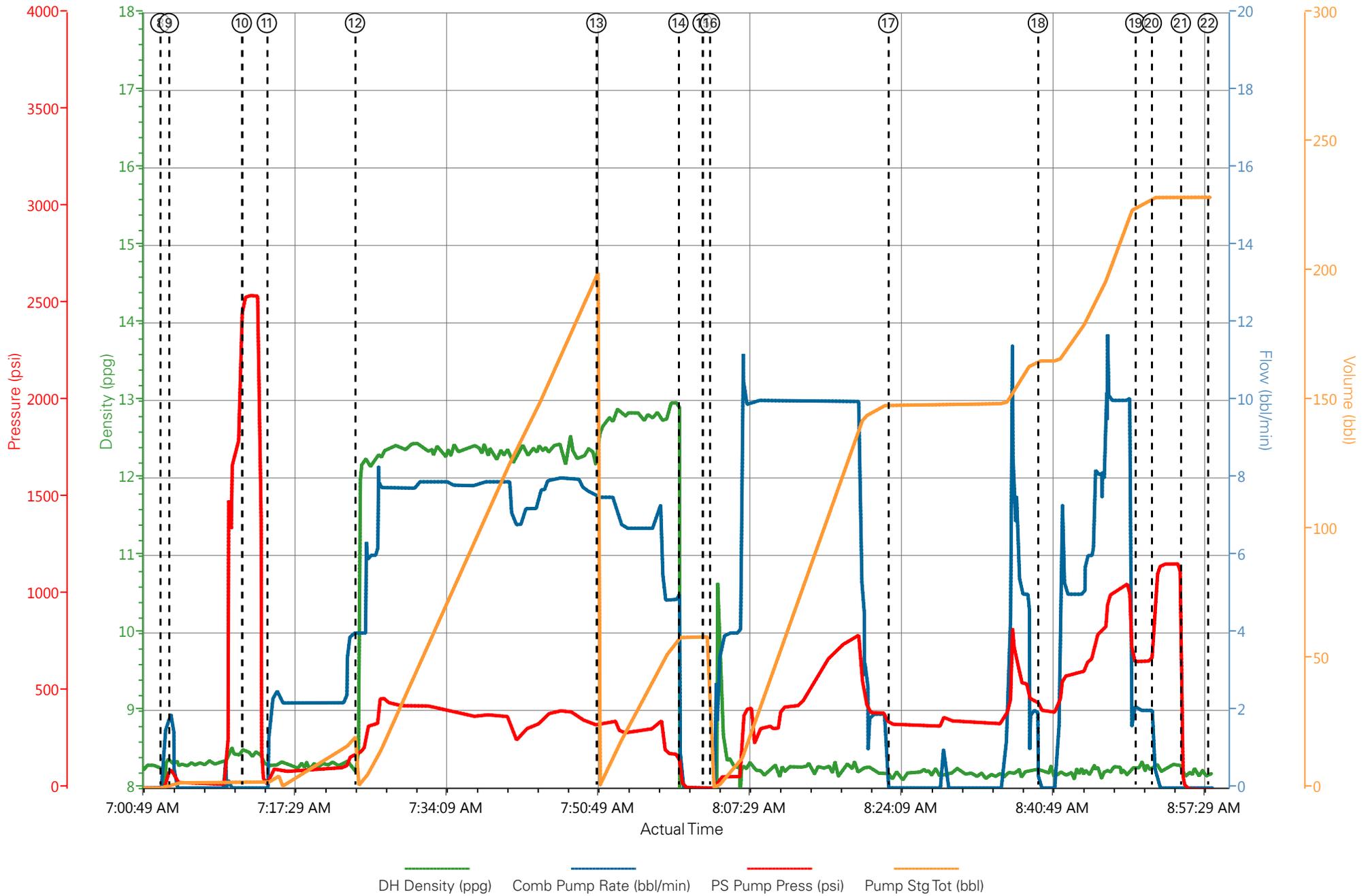
# WPX - PA 341-27 - 9.625" SURFACE



- ① Call Out n/a;n/a;n/a;n/a
- ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
- ③ Crew Leave Yard n/a;n/a;n/a;n/a
- ④ Arrive At Loc n/a;n/a;n/a;n/a
- ⑤ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a
- ⑥ Rig-Up Completed -35.2;0;-29;0
- ⑦ Pre-Job Safety Meeting 0.56;0.1;-27;0
- ⑧ Prime Pumps 8.24;1.4;-2;0.1
- ⑨ Start Job 8.3;1.9;84;1.7
- ⑩ Test Lines 8.52;0;2533;2.1
- ⑪ Pu
- ⑫ Pu



# WPX - PA 341-27 - 9.625" SURFACE



# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: A.BRENNECKE  
Attention: E.RUSSEL  
Lease: PA  
Well #: 341-27

Date: 11/29/2014  
Date Rec.: 11/29/2014  
S.O.#: 901876175  
Job Type: SURFACE

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>&lt;200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>68</b> Deg
Total Dissolved Solids		<b>560</b> Mg / L

Respectfully: A.BRENNECKE

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

<b>Sales Order #:</b> 0901876175	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/29/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL HARTLE		<b>API / UWI: (leave blank if unknown)</b> 05-045-22238-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080244817
<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	11/29/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB58348
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL HARTLE
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	

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

General	
<b>Survey Conducted Date</b>	11/29/2014
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>	3
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>Pumping Hours</b>	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
<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>Was this a Primary Cement Job (Yes / No)</b>	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Customer Non-Productive Rig Time (hrs)</b>	0

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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>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>If a top plug was run, was the plug bumped? (Yes/No/N/A)</b> If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
<b>If applicable, was Halliburton float equipment used? (Yes/No/N/A)</b> If applicable, was Halliburton float equipment used? (Yes/No/N/A)	NA
<b>If applicable, did the floats hold? (Yes/No/N/A)</b> If applicable, did the floats hold? (Yes/No/N/A)	Yes
<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>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	8
<b>If applicable, were there returns throughout the job? (Yes/No/N/A)</b> If applicable, were there returns throughout the job? (Yes/No/N/A)	YES
<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