

WPX Energy Rocky Mountain LLC-EBUS

RWF 342-23

**Nabors 577**

## **Post Job Summary**

# **CEMENT PRODUCTION CASING**

Date Prepared: 02/12/2015

Job Date: 02/05/2015

Submitted by: Jenna Cook – Grand Junction Cement Engineer

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3122896	Quote #:	Sales Order #: 0902098269
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Scott Geary		
Well Name: MEAD -RWF-	Well #: 342-23	API/UWI #: 05-045-20040-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SE-23-6S-94W-2293FSL-219FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 577	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Kyle Bath	

## Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	8503ft		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
Casing		9.625	9.001	32.3			0	1142		
Casing		4.5	4	11.6			0	8503		
Open Hole Section			8.75				1111	8523		

## Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5			8503	Top Plug	4.5	1	HES
Float Shoe	4.5				Bottom Plug	4.5		HES
Float Collar	4.5				SSR plug set	4.5		HES
Insert Float	4.5				Plug Container	4.5		HES
Stage Tool	4.5				Centralizers	4.5		HES

## 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 ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Fresh Water	Fresh Water	10	bbl	8.34				

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
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2	Mud Flush III (Powder)	Mud Flush III	20	bbl	8.4				
42 gal/bbl		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/min	Total Mix Fluid Gal
3	13.2 lb/gal Tuned Spacer III	Tuned Spacer III	20	bbl	13.7	2.3			
33.56 gal/bbl		FRESH WATER							
271.08 lbm/bbl		BARITE, BULK (100003681)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	EconoCem GJ2	ECONOCHEM (TM) SYSTEM	1380	sack	14.2	1.3		4	5.7
5.75 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/min	Total Mix Fluid Gal
5	Fresh Water Displacement	Fresh Water Displacement	131	bbl	8.34				
Cement Left In Pipe		Amount	29 ft		Reason		Shoe Joint		
Comment									

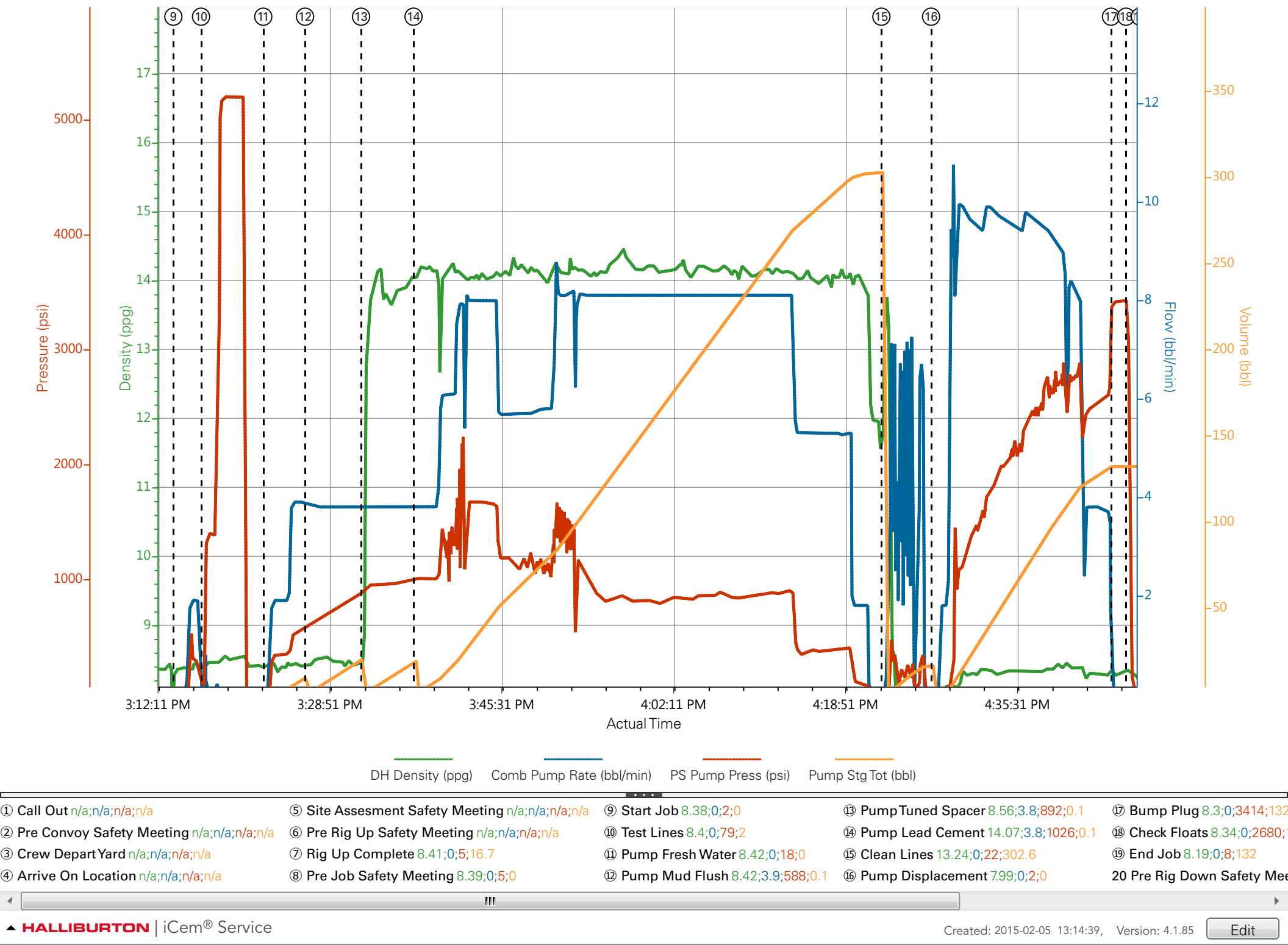
## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

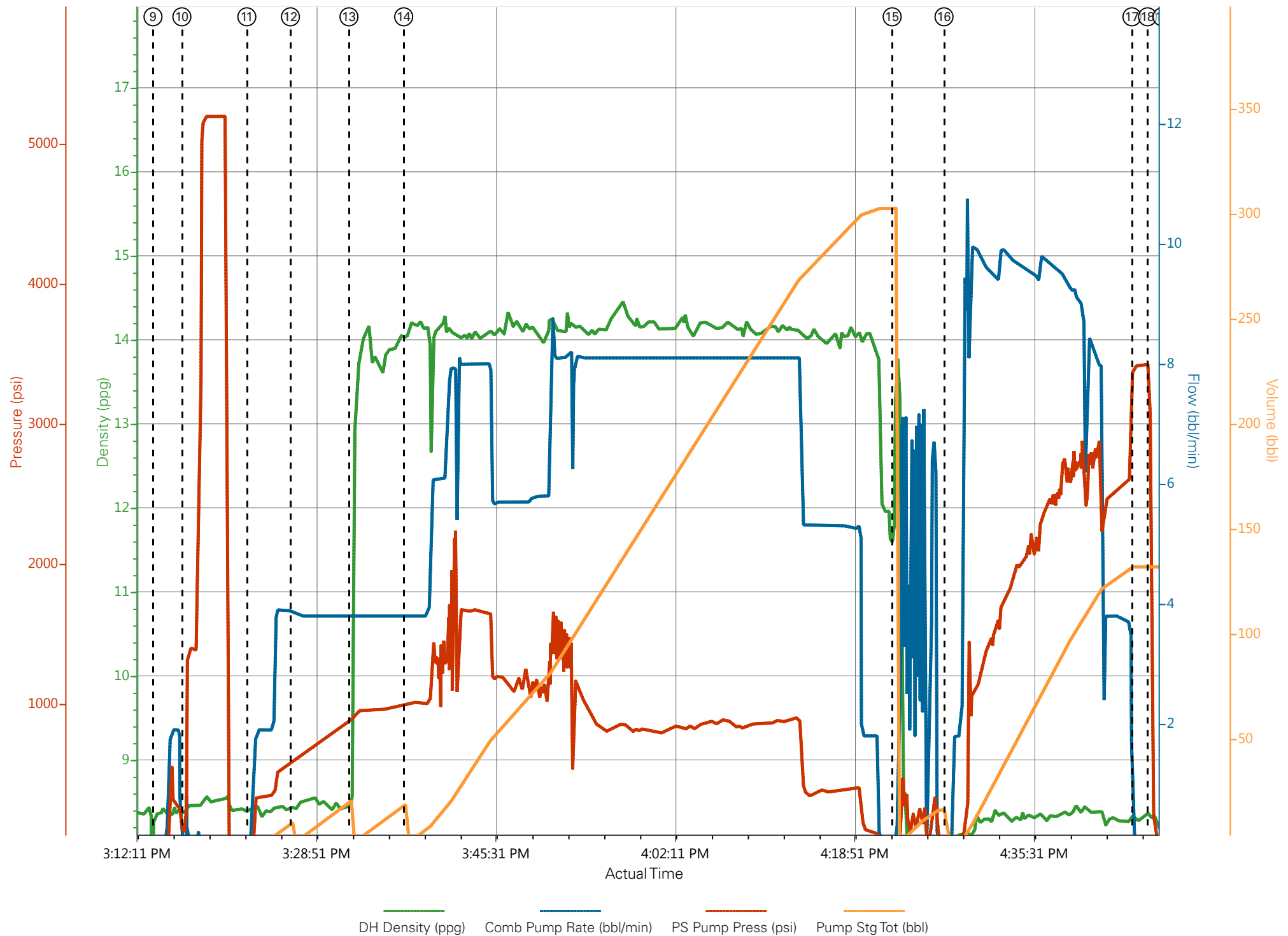
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1		CALL OUT	2/5/2015	08:00:00	USER					
Event	2		PRE CONVOY SAFETY MEETING	2/5/2015	11:00:00	USER					
Event	3		CREW DEPART YARD	2/5/2015	11:15:00	USER					
Event	4		ARRIVE ON LOCATION	2/5/2015	12:30:00	USER					RIG RUNNING CASING UPON HES ARRIVAL
Event	5		SITE ASSESMENT SAFETY MEETING	2/5/2015	12:45:00	USER					
Event	6		PRE RIG UP SAFETY MEETING	2/5/2015	13:00:00	USER					
Event	7		RIG UP COMPLETE	2/5/2015	14:30:00	USER					
Event	8		PRE JOB SAFETY MEETING	2/5/2015	14:45:00	USER					
Event	9		START JOB	2/5/2015	15:13:00	USER					TD 8523, TP 8503, SJ 29, CSG 4.5" 11.6# I-80, PREV CSG 9.625" 32.3# H-40, HOLE 8.75", MUD 13.3#
Event	10		TEST LINES	2/5/2015	15:16:00	USER					TEST LINES TO 5195 PSI
Event	11		PUMP FRESH WATER SPACER	2/5/2015	15:22:00	USER	8.33	4	550	10	PUMP 10 BBL FRESH WATER SPACER
Event	12		PUMP MUD FLUSH SPACER	2/5/2015	15:26:00	USER	8.4	4	600	20	PUMP 20 BBL MUD FLUSH SPACER
Event	13		PUMP TUNED SPACER	2/5/2015	15:32:00	USER	13.7	4	890	20	PUMP 20 BBL TUNED SPACER AT 13.7 PPG
Event	14		PUMP CEMENT	2/5/2015	15:37:00	USER	14.2	8	1136	319.5	MIX AND PUMP 1380 SKS AT 14.2 PPG, 1.3 FT3/FT, 5.7

											GAL/SK
Event	15	Other	SHUTDOWN	2/5/2015	16:27:00	USER					WASH PUMPS AND LINES TO PIT
Event	16	Other	PUMP DISPLACEMENT	2/5/2015	16:32:00	USER	8.4	10	2180	131	PUMP 131 BBLS KCL DISPLACEMENT
Event	17	Other	BUMP PLUG	2/5/2015	16:45:00	USER					BUMPED PLUG AT 2620 PSI TOOK TO 3450 PSI
Event	18	Other	END JOB	2/5/2015	16:47:00	USER					GOOD RETURNS THROUGHOUT JOB
Event	19	Other	PRE RIG DOWN SAFETY MEETING	2/5/2015	17:00:00	USER					
Event	20	Other	RIG DOWN COMPLETE	2/5/2015	18:00:00	USER					
Event	21	Other	PRE CONVOY SAFETY MEETING	2/5/2015	18:15:00	USER					
Event	22	Other	DEPART LOCATION	2/5/2015	18:30:00	USER					THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW

WPX ~ RWF 342-23 ~ PRODUCTION CASING



# WPX ~ RWF 342-23 ~ PRODUCTION CASING



<b>Sales Order #:</b> 0902098269	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 2/5/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT PRODUCTION CASING BOM
<b>Customer Representative:</b> SCOTT GEARY		<b>API / UWI: (leave blank if unknown)</b> 05-045-20040-00
<b>Well Name:</b> MEAD -RWF-		<b>Well Number:</b> 0080124693
<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	2/5/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB49384
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	SCOTT GEARY
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> The date the survey was conducted	2/5/2015

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Deviated
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	6
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Pumping Hours</b> Total number of hours pumping fluid on this job. Enter in decimal format.	4
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	5
<b>Was this a Primary Cement Job (Yes / No)</b> Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<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>Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?</b> Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
<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)	Not Available
<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	98
<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