

WPX Energy Rocky Mountain LLC-EBUS

RU 533-7

**NABORS 576**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 4/26/2015  
Job Date: 4/14/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

## 1.0 Real-Time Job Summary

### 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	PS Pump Press <i>(psi)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	4/14/2015	07:00:00	USER					RIG DRILLING UPON HES ARRIVAL
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	4/14/2015	13:00:00	USER					ATTENDED BY ALL HES CREW
Event	3	Other	Other	4/14/2015	13:40:00	USER					SPOT EQUIPMENT
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	4/14/2015	13:50:00	USER					ATTENDED BY ALL HES CREW
Event	5	Rig-Up Equipment	Rig-Up Equipment	4/14/2015	14:00:00	USER					
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	4/14/2015	15:00:00	USER					ATTENDED BY ALL HES CREW, RIG CREW, AND COMPANY REP
Event	7	Other	Start Job	4/14/2015	15:15:16	USER					TD 1375', TP 1350', CASING 9.625", 32.3#, H40, SHOE JOINT 41.84', MUD WEIGHT 10.1 PPG, OPEN HOLE 13.5", RIG CIRCULATED FOR 1 HR PRIOR TO JOB
Event	8	Other	Fill Lines	4/14/2015	15:16:21	USER	8.34	40	2	2	FRESH WATER
Event	9	Test Lines	Test Lines	4/14/2015	15:17:47	USER					PRESSURED UP TO 3180 PSI, PRESSURE HELD
Event	10	Pump Spacer	Pump Spacer	4/14/2015	15:22:18	USER	8.34	110	4	20	FRESH WATER
Event	11	Pump Lead Cement	Pump Lead Cement	4/14/2015	15:29:31	USER	12.3	340	8	74.2	175 SKS VARICEM MIXED AT 12.3 PPG, WITH A YIELD OF 2.38, 14.17 GAL/SK
Event	12	Pump Tail Cement	Pump Tail Cement	4/14/2015	15:39:24	USER	12.8	330	8	65.8	175 SKS VARICEM MIXED AT 12.8 PPG, WITH A YIELD OF

2.11, 11.78 GAL/SK

Event	13	Shutdown	Shutdown	4/14/2015	15:48:10	USER					
Event	14	Drop Top Plug	Drop Top Plug	4/14/2015	15:50:59	USER					PLUG LAUNCHED
Event	15	Pump Displacement	Pump Displacement	4/14/2015	15:51:07	USER	8.34	640	10	92.9	FRESH WATER
Event	16	Slow Rate	Slow Rate	4/14/2015	16:02:01	USER	8.34	310	2	10	
Event	17	Bump Plug	Bump Plug	4/14/2015	16:06:26	USER		1120			PLUG LANDED
Event	18	Check Floats	Check Floats	4/14/2015	16:08:16	USER					FLOATS HELD, RECIEVED .5 BBLs TO THE TRUCK
Event	19	Other	End Job	4/14/2015	16:09:35	USER					GOOD CIRCULATION THROUGHOUT JOB, PIPE NOT MOVED DURING JOB, RECEIVED 25 BBLs OF CEMENT TO SURFACE
Event	20	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	4/14/2015	16:10:00	USER					ATTENDED BY ALL HES CREW
Event	21	Rig-Down Equipment	Rig-Down Equipment	4/14/2015	16:20:00	USER					
Event	22	Depart Location Safety Meeting	Depart Location Safety Meeting	4/14/2015	17:20:00	USER					ATTENDED BY ALL HES CREW
Event	23	Crew Leave Location	Crew Leave Location	4/14/2015	17:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3599895	Quote #:	Sales Order #: 0902317913
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: AL HARTL	
Well Name: YOUBERG RU	Well #: 533-7	API/UWI #: 05-045-22519-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SE-7-7S-93W-1132FSL-1193FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA/HB50180		Srvc Supervisor: Eric Carter	
Job			

Formation Name		Bottom	1375 FT
Formation Depth (MD)	Top 0	BHST	
Form Type		Job Depth TVD	
Job depth MD	1350ft	Wk Ht Above Floor	4 FT
Water Depth		To	
Perforation Depth (MD)	From		

### 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	3	9.625	9.001	32.3	8 RD (LT&C)	H-40	0	1350		0
Open Hole Section			13.5				0	1375		0

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe					Top Plug	9.625	1	HES
Float Shoe					Bottom Plug			
Float Collar					SSR plug set			
Insert Float					Plug Container	9.625	1	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	20	bbl	8.34			4	

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
2	VariCem GJ1	VARICEM (TM) CEMENT	175	sack	12.3	2.38	13.77	8	

13.77 Gal		FRESH WATER								
0.25 lbm		POLY-E-FLAKE (101216940)								
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/mi n</b>	<b>Total Mix Fluid Gal</b>	
3	VariCem GJ1	VARICEM (TM) CEMENT	175	sack	12.8	2.11	11.78	8		
0.25 lbm		POLY-E-FLAKE (101216940)								
11.78 Gal		FRESH WATER								
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/mi n</b>	<b>Total Mix Fluid Gal</b>	
4	Fresh Water Displacement	Fresh Water Displacement	102.9	bbl	8.34			10		
<b>Cement Left In Pipe</b>		<b>Amount</b>	42 ft		<b>Reason</b>			Shoe Joint		
<b>Comment</b>										

# Summary Report



Sales Order #: 0902317913  
WO #: 0902317913  
PO/AFE #: NA

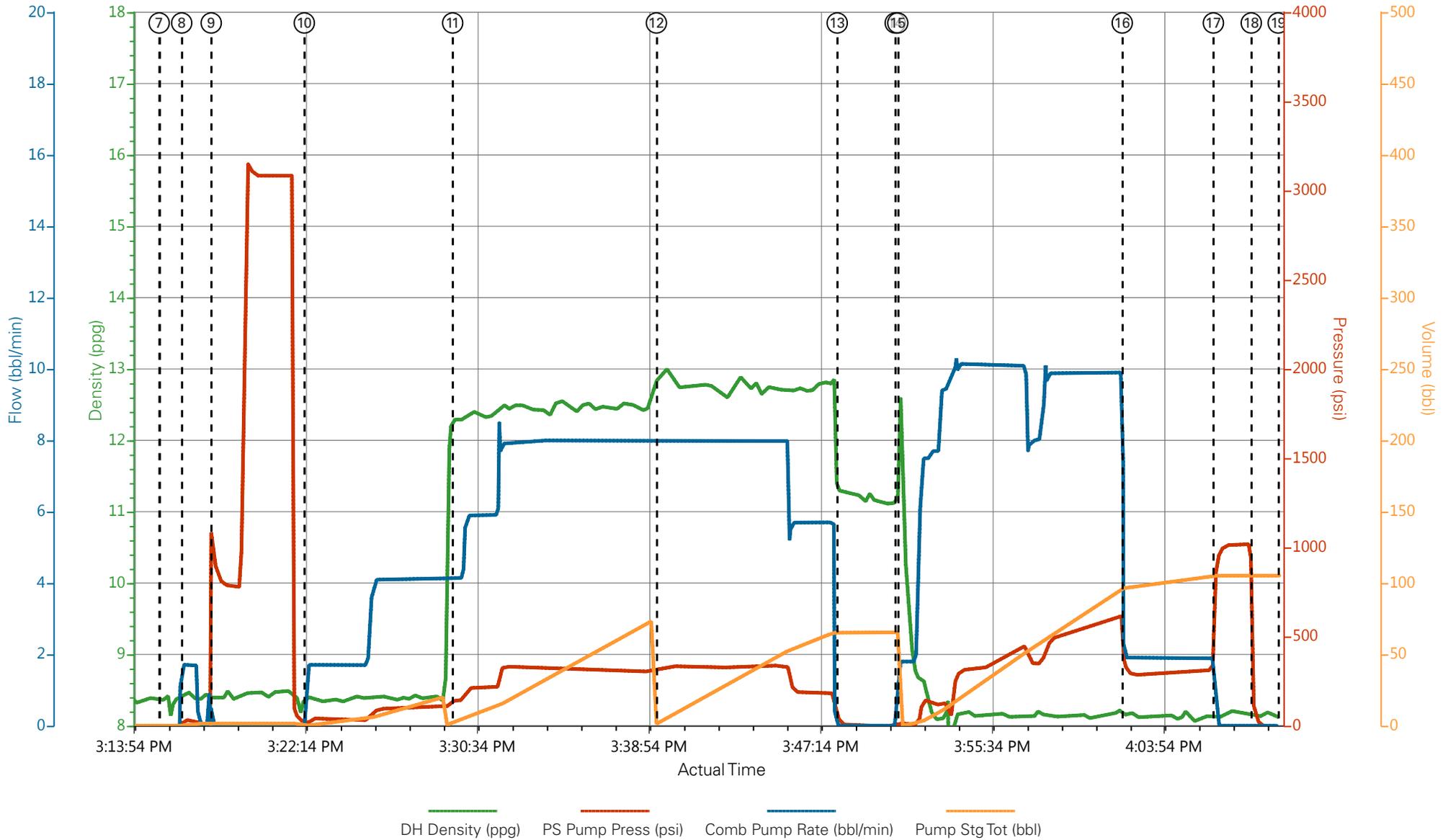
Crew: \_\_\_\_\_

Job Start Date: 4/14/2015 \_\_\_\_\_

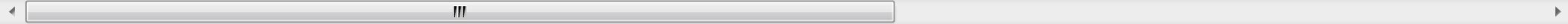
Customer:	WPX ENERGY ROCKY MOUNTAIN Field:	RULISON	Job Type:	CMT SURFACE CASING BOM	
	LLC-EBUS		Service Supervisor:	Eric Carter	
UWI / API Number:	05-045-22519-00	County/Parish:	GARFIELD		
Well Name:	YOUBERG RU	State:	COLORADO		
Well No:	533-7	Latitude:	39.454780		
		Longitude:	-107.810843	Cust Rep Name:	AL HARTL
		Sect / Twn / Rng:	7/7/93	Cust Rep Phone#:	

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

# WPX - YUBERG RU 533-7 - SURFACE



- |   |   |                              |                                     |                                |
|---|---|------------------------------|-------------------------------------|--------------------------------|
| ① Arrive at Location from Other Job or Site n/a;n/a;n/a;n/a | ④ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑦ Start Job 8.35;-13;0;0     | ⑩ Pump Spacer 8.39;17;1.7;0.2       | ⑬ Shutdown 11.29;19;0;65.3     |
| ② Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a     | ⑤ Rig-Up Equipment n/a;n/a;n/a;n/a          | ⑧ Fill Lines 8.47;29;1.7;0.4 | ⑪ Pump Lead Cement 12.3;144;4.1;2.6 | ⑭ Drop Top Plug 12.27;9;1.8;65 |
| ③ Other n/a;n/a;n/a;n/a                                     | ⑥ Pre-Job Safety Meeting n/a;n/a;n/a;n/a    | ⑨ Test Lines 8.41;925;0;1.5  | ⑫ Pump Tail Cement 12.93;324;8;2.7  | ⑮ Pump Displacement 12.58;1    |



**HALLIBURTON** | iCem® Service

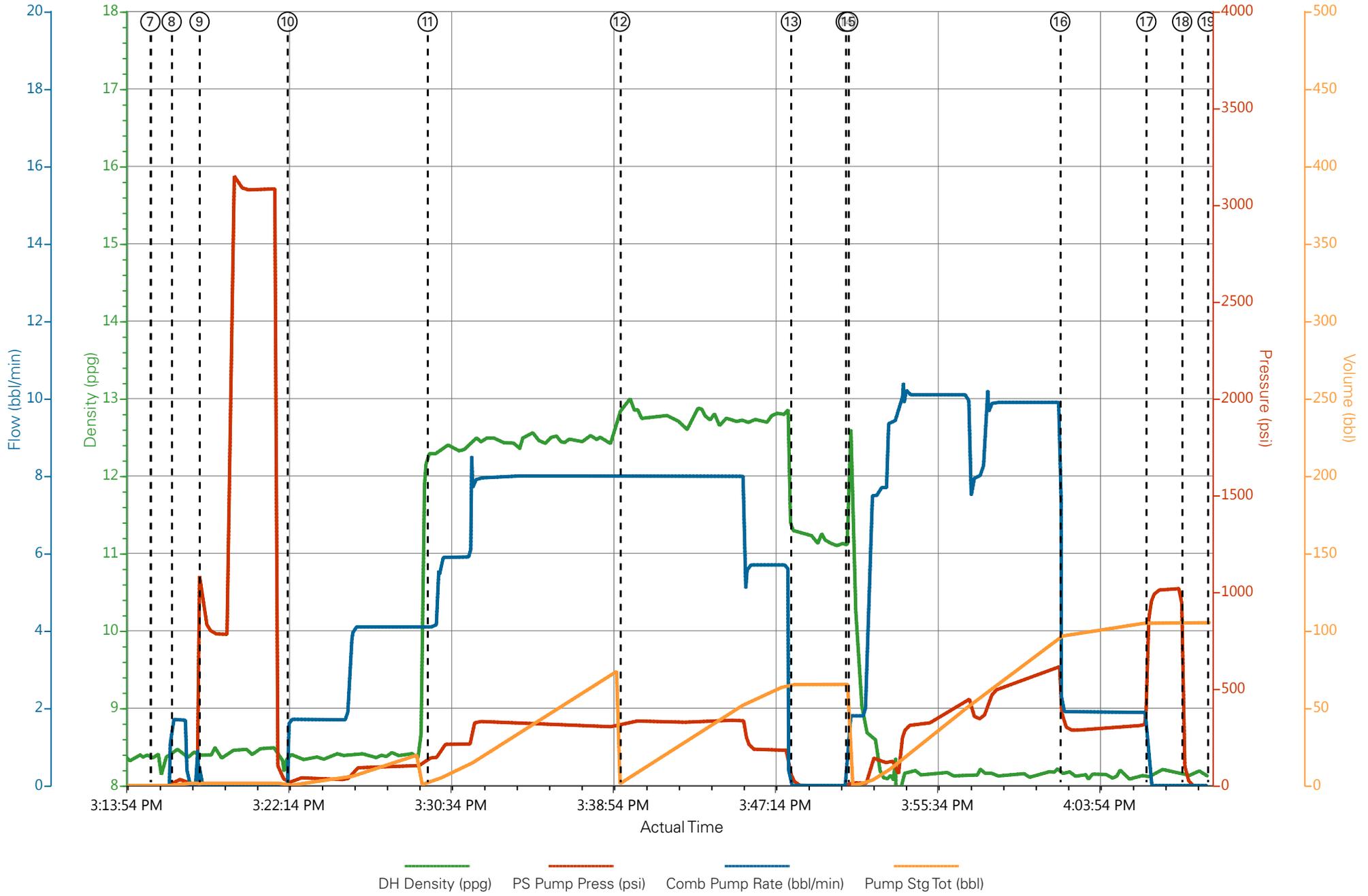
Created: 2015-04-14 09:40:31, Version: 4.1.107 Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS  
 Representative : AL HARTL

Job Date : 4/14/2015 2:30:45 PM  
 Sales Order # : 902317913

Well : RU 533-7  
 ERIC CARTER : TAYLOR MORELAND / ELITE 3

# WPX - YOUBERG RU 533-7 - SURFACE



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

# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: ERIC CARTER  
Attention: J.Trout  
Lease: NABORS 576  
Well #: YOUBERG RU 433-7

Date: 4/26/2015  
Date Rec.: 4/26/2015  
S.O.#: 902307166  
Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>1000</b> Mg / L
Hardness	<i>500</i>	<b>250</b> Mg / L
Iron (FE2)	<i>300</i>	<b>10</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>500</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200</b> Mg / L
Temp	<i>40-80</i>	<b>60</b> Deg
Total Dissolved Solids		<b>OR</b> Mg / L

Respectfully: ERIC CARTER

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.

<b>Sales Order #:</b> 0902317913	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/14/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL HARTL		<b>API / UWI: (leave blank if unknown)</b> 05-045-22519-00
<b>Well Name:</b> YOUBERG RU		<b>Well Number:</b> 0080688973
<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	4/14/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX15491
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL HARTL
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>	4/14/2015
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>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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<b>Customer Representative:</b> AL HARTL		<b>API / UWI: (leave blank if unknown)</b> 05-045-22519-00
<b>Well Name:</b> YOUBERG RU		<b>Well Number:</b> 0080688973
<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

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