

WPX Energy Rocky Mountain LLC-EBUS

RU 33-7

**Cyclone 29**

# **Post Job Summary**

## **Cement Surface Casing**

Date Prepared: 12/28/2015

Job Date: 2/18/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3599831	Quote #: 0022002638	Sales Order #: 0902148817
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: MATT HUTSON	
Well Name: YOUBERG RU	Well #: 33-7	API/UWI #: 05-045-22514-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SE-7-7S-93W-1166FSL-1191FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Christopher Kukus	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1350ft 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	0	9.625	9.001	32.3	8 RD (LT&C)	H-40	0	1350		0
Open Hole Section			13.5				0	1350		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	9.625	1		1350	Top Plug	9.625	1	HES	
Float Shoe	9.625	1			Bottom Plug	9.625	1	HES	
Float Collar	9.625	1			SSR plug set	9.625	1	HES	
Insert Float	9.625	1			Plug Container	9.625	1	HES	
Stage Tool	9.625	1			Centralizers	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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	20	bbl	8.34					
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	175	sack	12.3	2.38		6	13.77	
			13.70 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		6	11.77
0.25 lbm		POLY-E-FLAKE (101216940)							
11.71 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	1008	bbl	8.34				
<b>Cement Left In Pipe</b>	<b>Amount</b>	46 ft		<b>Reason</b>	Shoe Joint				
<b>Comment</b>									



**Summary Report**

Crew: \_\_\_\_\_  
 Job Start Date: 2/18/2015

Sales Order #: 0902148817  
 WO #: 0902148817  
 PO/AFE #: NA

<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	<b>Field:</b> RULISON	<b>Job Type:</b> CMT SURFACE CASING BOM
<b>UWI / API Number:</b> 05-045-22514-00	<b>County/Parish:</b> GARFIELD	<b>Service Supervisor:</b> Christopher Kukus
<b>Well Name:</b> YOUBERG RU	<b>State:</b> COLORADO	
<b>Well No:</b> 33-7	<b>Latitude:</b> 39.454883	
	<b>Longitude:</b> -107.810838	<b>Cust Rep Name:</b> MATT HUTSON
	<b>Sect / Twn / Rng:</b> 77/93	<b>Cust Rep Phone #:</b>

<b>Remarks:</b>		
<b>The Information Stated Herein Is Correct</b>	Customer Representative Signature <i>Matt Hutson</i>	Date
	Customer Representative Printed Name <i>Matt Hutson</i>	<i>2/19/15</i>

## 1.0 Real-Time Job Summary

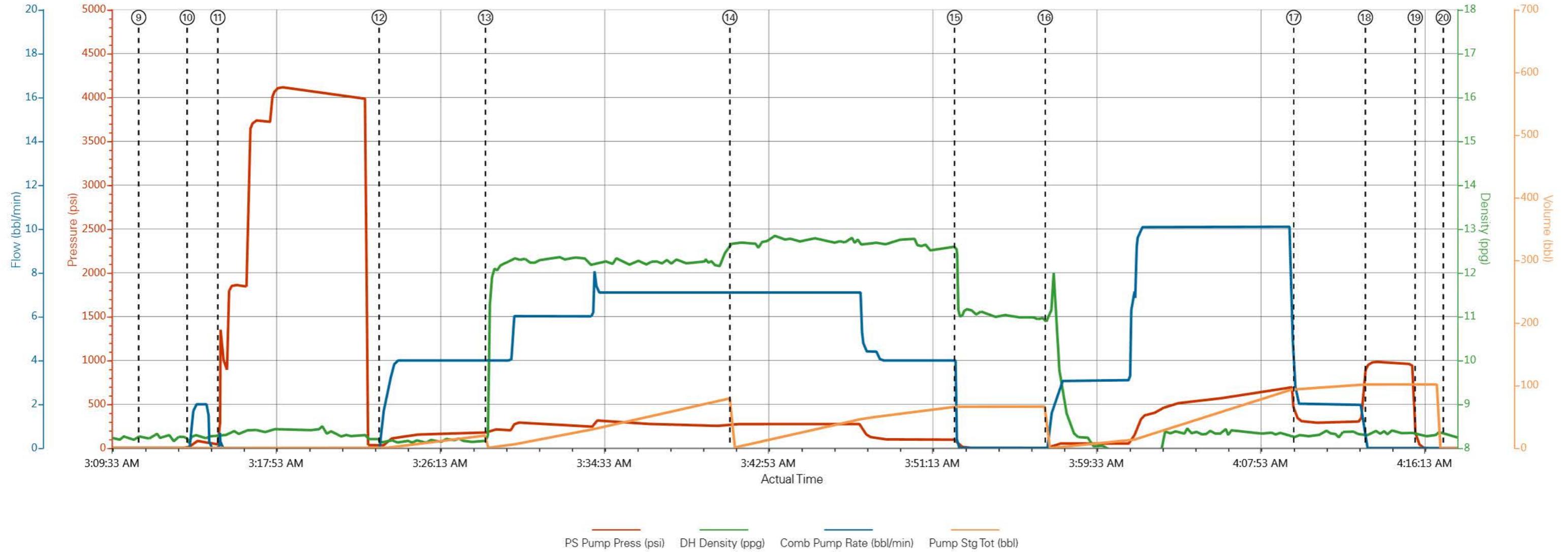
### 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	2/18/2015	18:00:31	USER					HES CREW CALLED OUT AT 18:00 WITH ON LOCATION OF 22:00
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	2/18/2015	19:50:51	USER					ALL HES CREW MEMBERS
Event	3	Crew Leave Yard	Crew Leave Yard	2/18/2015	20:00:03	USER					HES CREW AND EQUIPMENT READY LEFT YARD AT 20:00
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	2/18/2015	22:00:18	USER					HES CREW ARRIVED ON TIME AT 22:00 RIG WAS RUNNING CASING HES CREW WAITED FOR RIG TO FINISH CASING BEFORE RIGGING UP
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	2/19/2015	00:50:23	USER					ALL HES CREW MEMBERS
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	2/19/2015	01:00:34	USER					ALL HES CREW MEMBERS
Event	7	Rig-Up Equipment	Rig-Up Equipment	2/19/2015	01:10:47	USER					RIG UP IRON TO STAND PIPE, FRESH WATER LINES TO UP RIGHT AND RIG TANK, BULK LINES TO BULK TRUCKS
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	2/19/2015	02:53:35	USER					ALL HES CREW MEMBERS AND RIG CREW
Event	9	Start Job	Start Job	2/19/2015	03:11:01	COM5					TD: 1350 TP: 1350 SJ: 46.5 CSG: 9 5/8 32.3# H40 OH: 13 1/2 MUD: 10.2 VISC: 57 RIG CIRCULATED FOR 1

											HOUR BEFORE CEMENT JOB WITH FULL RETURNS
Event	10	Prime Pumps	Prime Lines	2/19/2015	03:13:28	COM5	86.00	8.33	2.00	2.0	PRIME LINES WITH 2 BBLS OF FRESH WATER AT 2 BBLS/MIN AT 86 PSI
Event	11	Test Lines	Test Lines	2/19/2015	03:15:02	COM5	4115.0	8.29	0.70	2.0	PRESSURE TEST OK AT 4115 PSI KICK OUTS WORKING STALL OUT AT 1862 PSI
Event	12	Pump Spacer 1	Pump Spacer 1	2/19/2015	03:23:14	COM5	166.0	8.36	4.0	20.0	PUMP 20 BBLS FRESH WATER SPACER AT 4 BBL/MIN AT 166 PSI
Event	13	Pump Lead Cement	Pump Lead Cement	2/19/2015	03:28:38	COM5	260.0	12.36	7.00	74.2	VARICEM 175 SKS 12.3 PPG 2.38 YIELD 13.77 GAL/SK LEAD CEMENT WEIGHT VERIFIED BY MUD SCALE WET AND DRY SAMPLES WERE TAKEN TOTAL OF 74.2 BBLS OF LEAD AWAY WITH AVERAGE PRESSURE AT 260 PSI
Event	14	Pump Tail Cement	Pump Tail Cement	2/19/2015	03:41:02	COM5	280.0	12.82	7.00	65.7	VARICEM 175 SKS 12.8 PPG 2.11 YIELD 11.77 GAL/SK TAIL CEMENT WEIGHT VERIFIED BY MUD SCALE WET AND DRY SAMPLES WERE TAKEN TOTAL OF 65.7 BBLS OF TAIL AWAY WITH AVERAGE PRESSURE AT 280 PSI
Event	15	Shutdown	Shutdown	2/19/2015	03:52:27	USER	81.00	12.81	0.40	65.7	SHUTDOWN END OF CEMENT READY TANKS FOR DISPLACEMENT
Event	16	Pump Displacement	Pump Displacement	2/19/2015	03:57:03	COM5	667.0	8.42	10.0	100.8	PUMP 100.8 BBLS OF FRESH WATER DISPLACEMENT HES CREW WASHED UP ONTOP OF THE PLUG
Event	17	Slow Rate	Slow Rate	2/19/2015	04:09:40	USER	690.0	8.33	2.0	90.8	SLOW RATE LAST 10 BBLS

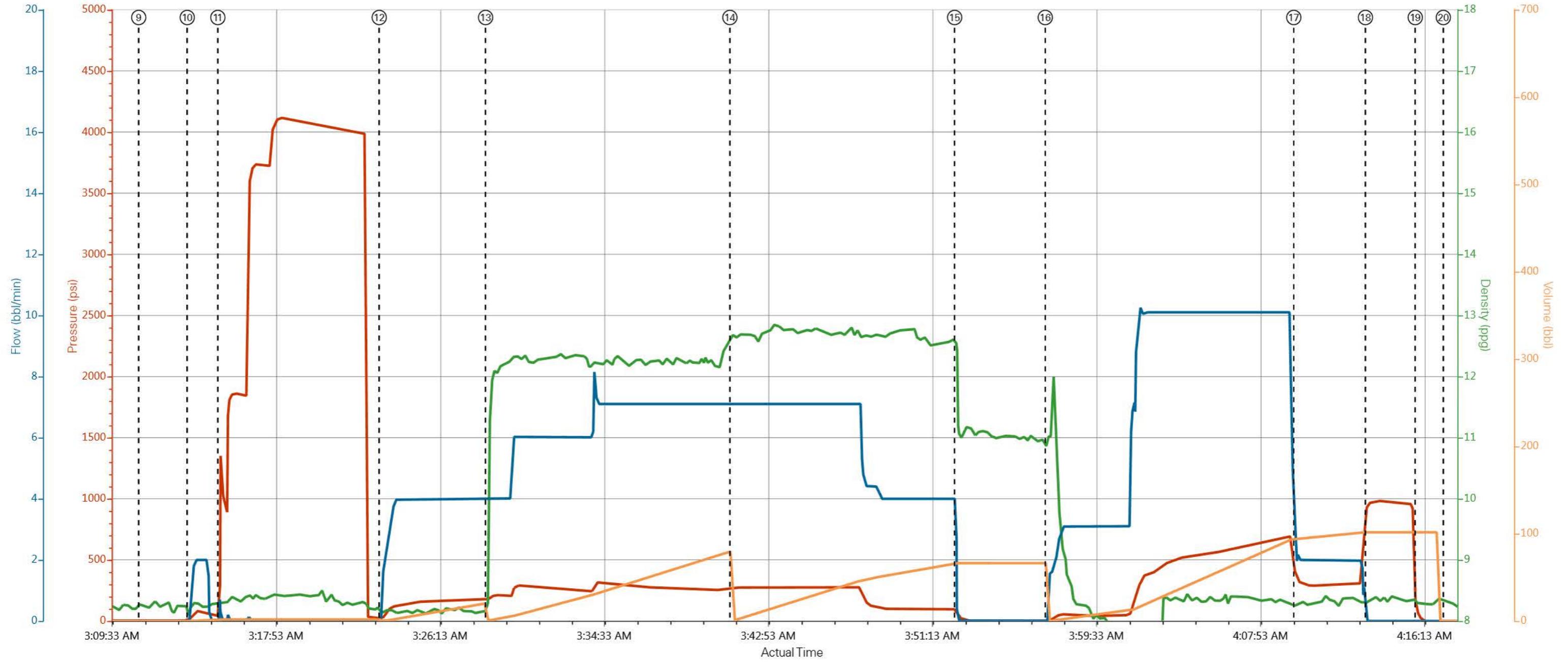
											TO 2 BLLS/MIN TO BUMP PLUG
Event	18	Bump Plug	Bump Plug	2/19/2015	04:13:19	COM5	305.0	8.31	0.00	100.8	PLUG BUMP AT 100.8 BBLS AWAY AT 305 PSI AND WAS TOOK UP TO 970 PSI
Event	19	Check Floats	Check Floats	2/19/2015	04:15:51	USER	970.0	8.30	0.00	100.8	FLOATS HELD WITH 1.5 BBLS BACK TO DISPLACEMENT TANKS
Event	20	End Job	End Job	2/19/2015	04:17:16	COM5					CEMENT JOB WENT GOOD WITH NO ISSUES PLUG BUMP FLOATS HELD 30 BBLS OF CEMENT TO SURFACE 40 LBS OF SUGAR USED WELL HAD FULL RETURNS THROUGH OUT CEMENT JOB
Event	21	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	2/19/2015	04:20:14	USER					ALL HES CREW MEMBERS
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	2/19/2015	04:25:23	USER					ALL HES CREW MEMBERS
Event	23	Rig-Down Equipment	Rig-Down Equipment	2/19/2015	04:30:31	USER					RIG DOWN FLOOR, GROUND IRON, BULK LINES, FRESH WATER LINES WASH UP AND BLOW DOWN PUMP
Event	24	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	2/19/2015	05:20:54	USER					ALL HES CREW MEMBERS
Event	25	Crew Leave Location	Crew Leave Location	2/19/2015	05:30:02	USER					THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

WPX ENERGY /YOUBERG RU 33-7 / 9 5/8 SURFACE CASING



- ① Call Out
- ② Pre-Convoy Safety Meeting
- ③ Crew Leave Yard
- ④ Arrive at Location from Service Center
- ⑤ Assessment Of Location Safety Meeting
- ⑥ Pre-Rig Up Safety Meeting
- ⑦ Rig-Up Equipment
- ⑧ Pre-Job Safety Meeting
- ⑨ Start Job
- ⑩ Prime Lines
- ⑪ Test Lines
- ⑫ Pump Spacer 1
- ⑬ Pump Lead Cement
- ⑭ Pump Tail Cement
- ⑮ Shutdown
- ⑯ Pump Displacement
- ⑰ Slow Rate
- ⑱ Check Floats
- ⑳ End Job
- ㉑ Post-Job Safety Meeting (Pre Rig-Down)
- ㉒ Pre-Rig Down Safety Meeting
- ㉓ Rig-Down Equipment
- ㉔ Pre-Convoy Safety Meeting
- ㉕ Crew Leave Location

WPX ENERGY /YOUBERG RU 33-7 / 9 5/8 SURFACE CASING



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

# HALLIBURTON

## Water Analysis Report

Company: WPX ENERGY

Date: 2/18/2015

Submitted by: CHRIS KUKUS

Date Rec.: 2/18/2015

Attention: LARRY COOKSEY

S.O.# 902148817

Lease YOUBERG RU

Job Type: SURFACE

Well # 33-7

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>0 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>120 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>UNDER 400 Mg / L</b>
Hardness		<b>50 Mg / L</b>
Temp	<i>40-80</i>	<b>40 Deg</b>
Total Dissolved Solids		<b>150 Mg / L</b>

Respectfully: CHRIS KUKUS

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> 0902148817	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 2/19/2015
<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> 05-045-22514-00
<b>Well Name:</b> YOUBERG RU		<b>Well Number:</b> 0080688953
<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	2/19/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX35027
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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<b>Sales Order #:</b> 0902148817	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 2/19/2015
<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> 05-045-22514-00
<b>Well Name:</b> YOUBERG RU		<b>Well Number:</b> 0080688953
<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

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	2/19/2015
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>	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>	6
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>		<b>API / UWI: (leave blank if unknown)</b> 05-045-22514-00
<b>Well Name:</b> YOUBERG RU		<b>Well Number:</b> 0080688953
<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)	No
<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	80
<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	80
<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