

WPX Energy Rocky Mountain LLC - EBUS

RU 444-7

**Nabors 576**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 4/30/2015

Job Date: 4/24/2015

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3600064	Quote #:	Sales Order #: 0902351168
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: RICK OAKS	
Well Name: YOUBERG RU	Well #: 444-7	API/UWI #: 05-045-22511-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SE-7-7S-93W-1128FSL-1183FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: DAVID CAMPBELL	
<b>Job</b>			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1375ft Job Depth TVD
Water Depth	Wk Ht Above Floor 5 FT
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	1353		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	9.625			1353.28	Top Plug	9.625	1	HES
Float Shoe	9.625				Bottom Plug	9.625		
Float Collar	9.625			1308.2	SSR plug set	9.625		
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625		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		8	13.77	

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	175	sack	12.8	2.11		8	11.78	
4	Fresh Water Displacement	Fresh Water Displacement	102.9	bbl	8.34			10.2		
<b>Cement Left In Pipe</b>		<b>Amount</b>	45 ft		<b>Reason</b>			Shoe Joint		
<b>Mix Water:</b>		7	<b>Mix Water Chloride:</b>		0 ppm		<b>Mix Water Temperature:</b>		50°F	
<b>Cement Temperature:</b>			<b>Plug Displaced by:</b>		8.4 PPG		<b>Disp. Temperature:</b>		50°F	
<b>Plug Bumped?</b>		Yes	<b>Bump Pressure:</b>		440 PSI		<b>Floats Held?</b>		Yes	
<b>Cement Returns:</b>			<b>Returns Density:</b>				<b>Returns Temperature:</b>			
<b>Comment</b>										

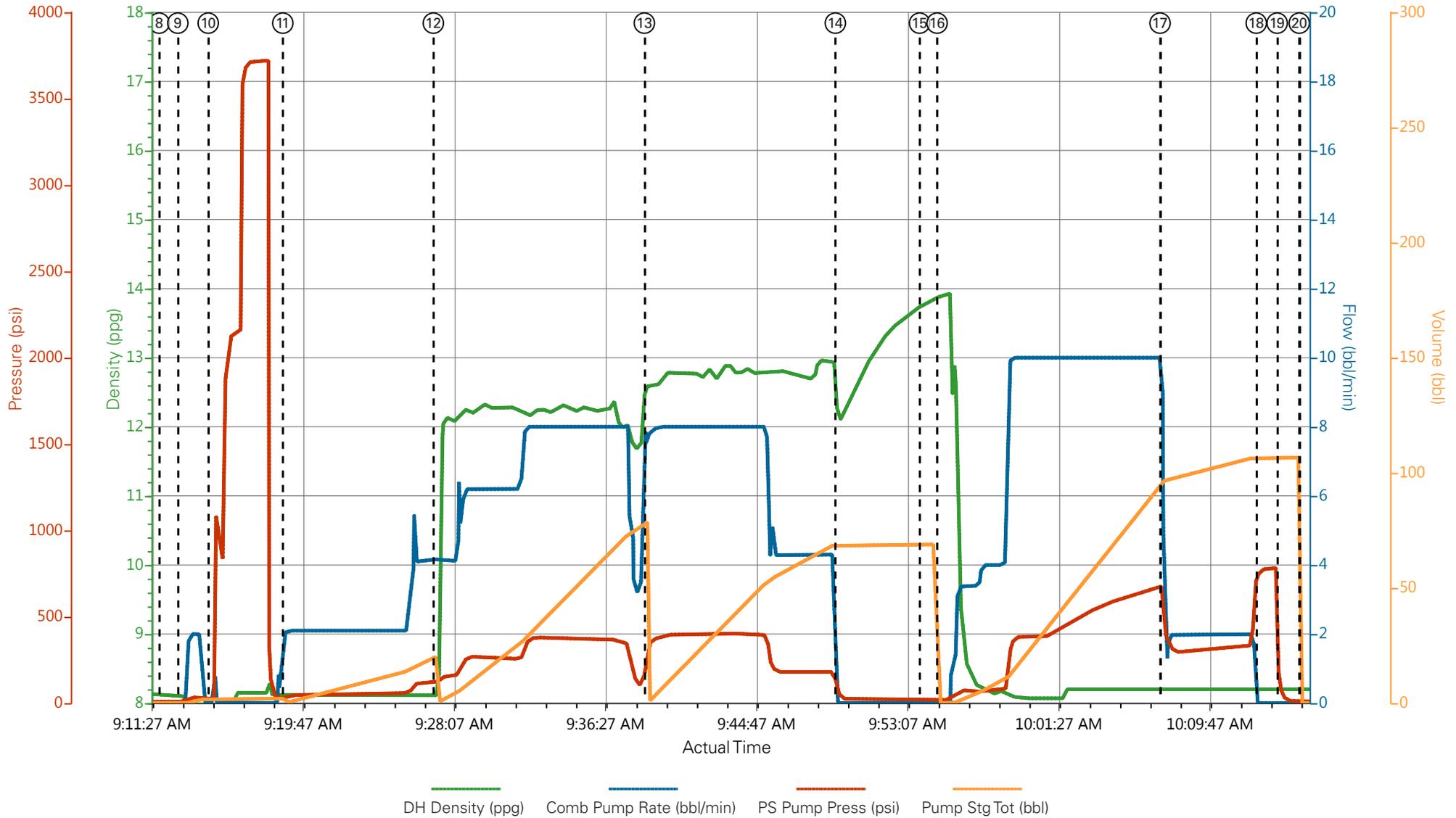
## 1.0 Real-Time Job Summary

### 1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	4/23/2015	09:00:00	USER					ELITE #4
Event	2	Pre-Convoy Safety Meeting	4/23/2015	23:00:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	4/24/2015	00:30:00	USER					CEMENTER AND PUMP ARRIVED 1/2 HOUR EARLY BULK TRUCKS ARRIVED 1/2 HOUR AFTER REQUESTED ON LOCATION TIME DID NOT START HOURS UNTIL THEN RIG DRILLING UPON HES ARRIVAL
Event	4	Assessment Of Location Safety Meeting	4/24/2015	01:00:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	4/24/2015	01:15:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	4/24/2015	01:30:00	USER					1 HT-400 PUMP TRUCK 2 660 BULK TRUCKS AND 1 F-550 PICKUP
Event	7	Pre-Job Safety Meeting	4/24/2015	09:00:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED FOR 1/2 HOUR @ 10 BBL/MIN BEFORE STARTING JOB PSI WAS 100 PSI
Event	8	Start Job	4/24/2015	09:12:00	COM5					TD: 1375 TP: 1353.28 CSG: 9 5/8 32.3# H-40 SJ: 45.08 OH: 13 1/2 MUD WEIGHT: 10.1 PPG
Event	9	Prime Pumps	4/24/2015	09:13:01	COM5	8.33	2.0	37.0	2.0	PRIME LINES WITH 2 BBL OF FRESH WATER
Event	10	Test Lines	4/24/2015	09:14:42	COM5	8.33	0.00	3720.0	2.0	PRESSURE TEST OK
Event	11	Pump Spacer 1	4/24/2015	09:18:49	COM5	8.33	4.0	126.0	20.0	PUMP 20 BBL FRESH WATER SPACER
Event	12	Pump Lead Cement	4/24/2015	09:27:07	COM5	12.3	8.0	365.0	74.2	175 SKS 12.3 PPG 2.38 YIELD 13.77 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUG SCALES
Event	13	Pump Tail Cement	4/24/2015	09:38:45	COM5	12.8	8.0	398.0	65.7	175 SKS 12.8 PPG 2.11 YIELD 11.78 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES

Event	14	Shutdown	4/24/2015	09:49:17	USER					
Event	15	Drop Top Plug	4/24/2015	09:53:55	COM5					PLUG AWAY NO PROBLEMS WASHED UP ON TOP OF PLUG AS PER COMPANY REP
Event	16	Pump Displacement	4/24/2015	09:54:53	COM5	8.4	10.0	672.0	102.9	FRESH WATER DISPLACEMENT
Event	17	Slow Rate	4/24/2015	10:07:11	USER	8.4	2.0	325.0	92.9	SLOW RATE TO BUMP PLUG
Event	18	Bump Plug	4/24/2015	10:12:29	COM5	8.4	2.0	790.0	102.9	PSI BEFORE BUMPING PLUG @ 440 PSI BUMPED PLUG UP TO 790 PSI
Event	19	Check Floats	4/24/2015	10:13:38	USER					FLOATS HELD 1/2 BBL BACK TO DISPLACEMENT TANKS
Event	20	End Job	4/24/2015	10:14:51	COM5					GOOD RETURNS THROUGHOUT JOB PIPE WAS STATIC THROUGHOUT THE JOB RETURNED 30 BBLS OF CEMENT TO SURFACE 1 ADD HOUR ADDED TO TICKET.
Event	21	Pre-Rig Down Safety Meeting	4/24/2015	10:45:00	USER					ALL HES EMPLOYEES
Event	22	Rig-Down Equipment	4/24/2015	11:00:00	USER					
Event	23	Pre-Convoy Safety Meeting	4/24/2015	11:45:00	USER					ALL HES EMPLOYEES
Event	24	Crew Leave Location	4/24/2015	12:00:00	USER					THANKS FOR USING HALLIBURTON CEMENT DAVID CAMPBELL AND CREW

# WPX - YOUBERG RU 444-7 - 9 5/8 SURFACE



- |   |                          |                    |                     |                                |
|---|--------------------------|--------------------|---------------------|--------------------------------|
| ① Call Out                              | ⑥ Rig-Up Equipment       | ⑪ Pump Spacer 1    | ⑯ Pump Displacement | 21 Pre-Rig Down Safety Meeting |
| ② Pre-Convoy Safety Meeting             | ⑦ Pre-Job Safety Meeting | ⑫ Pump Lead Cement | ⑰ Slow Rate         | 22 Rig-Down Equipment          |
| ③ Arrive At Loc                         | ⑧ Start Job              | ⑬ Pump Tail Cement | ⑱ Bump Plug         | 23 Pre-Convoy Safety Meeting   |
| ④ Assessment Of Location Safety Meeting | ⑨ Prime Lines            | ⑭ Shutdown         | ⑲ Check Floats      | 24 Crew Leave Location         |
| ⑤ Pre-Rig Up Safety Meeting             | ⑩ Test Lines             | ⑮ Drop Top Plug    | ⑳ End Job           |                                |

▼ **HALLIBURTON** | iCem<sup>®</sup> Service

Created: 2015-04-23 21:11:48, Version: 4.1.107

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 4/24/2015 9:06:24 AM

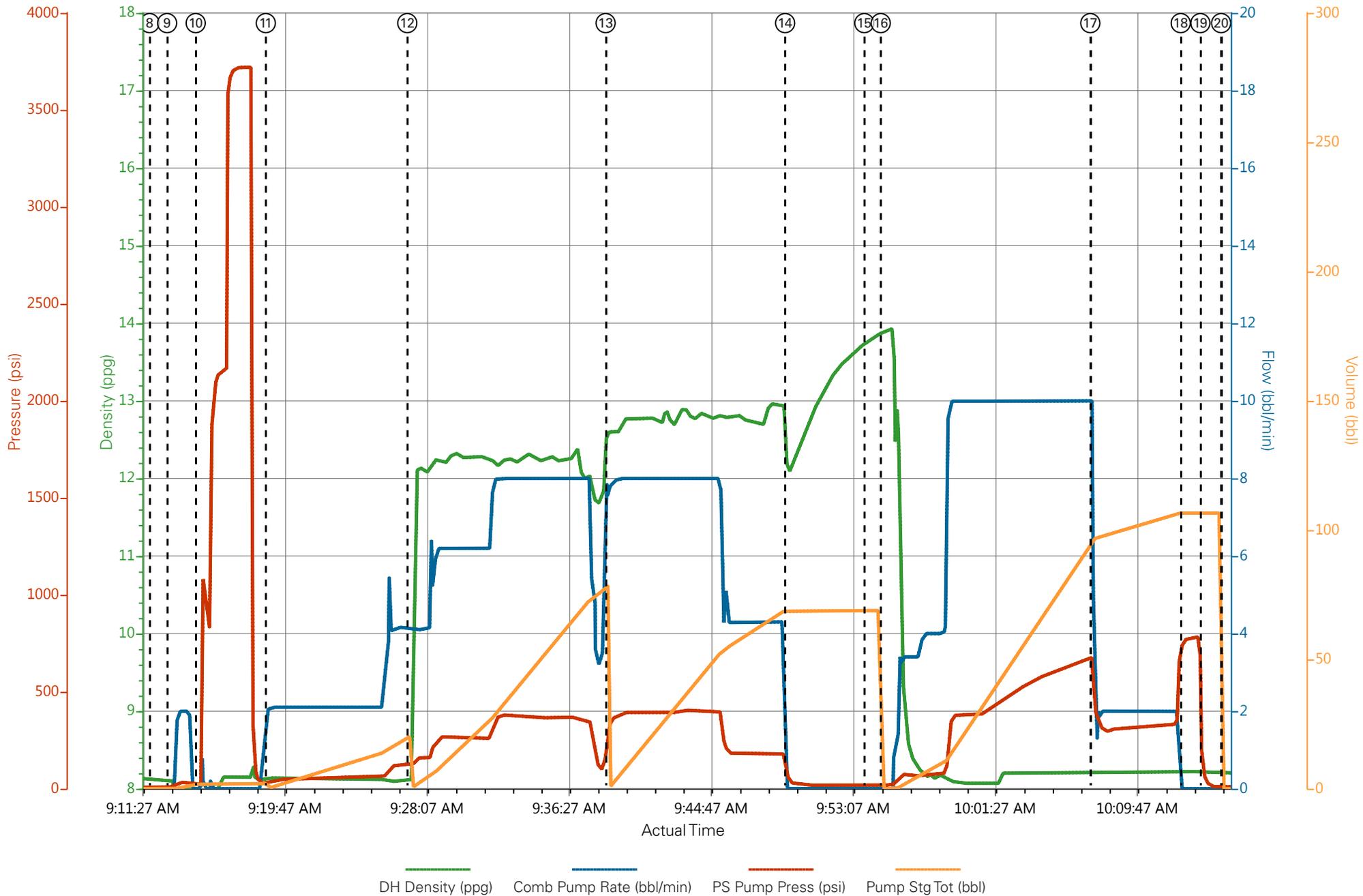
Well: YOUBERG RU 444-7

Representative: RICK OAKS

Sales Order #: 0902351168

ELITE # 4: DAVID CAMPBELL / JUSTIN BROWN

# WPX - YOUBERG RU 444-7 - 9 5/8 SURFACE



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

# HALLIBURTON

## Water Analysis Report

Company: WPX

Date: 4/24/2015

Submitted by: DAVID CAMPBELL

Date Rec.: 4/24/2015

Attention: J. TROUT/C.MARTINEZ

S.O.# 902351168

Lease YOUBERG

Job Type: SURFACE

Well # RU 444-7

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>400 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>100 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 200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-90</i>	<b>50 Deg</b>
Total Dissolved Solids		<b>150 Mg / L</b>

Respectfully: DAVID CAMPBELL

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

<b>Sales Order #:</b> 0902351168	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/24/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RICK OAKS		<b>API / UWI: (leave blank if unknown)</b> 05-045-22511-00
<b>Well Name:</b> YOUBERG RU		<b>Well Number:</b> 0080688983
<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	4/24/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RICK OAKS
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>	4/24/2015
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>	2
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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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	90
<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	90
<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