

WPX Energy Rocky Mountain LLC - EBUS

RU 531-7

**Nabors 574**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 12/04/2014  
Job Date: 11/23/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

*The Road to Excellence Starts with Safety*

Sold To #: 300721	Ship To #: 3356175	Quote #:	Sales Order #: 0901858883
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: GARY VALLAD	
Well Name: YOUNBERG		Well #: RU 531-7	API/UWI #: 05-045-22351-00
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NE-7-7S-93W-2468FNL-392FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 574	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Christopher Kukus	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1174ft Job Depth TVD
Water Depth	Wk Ht Above Floor 5FT
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	1174		0
Open Hole Section			13.5				0	1174		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1174		Top Plug	9.625	1	HES
Float Shoe	9.625	1				Bottom Plug	9.625		HES
Float Collar	9.625	1		1127		SSR plug set	9.625		HES
Insert Float	9.625	1				Plug Container	9.625	1	HES
Stage Tool	9.625	1				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 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	0	sack	12.3	2.38		7	13.77	

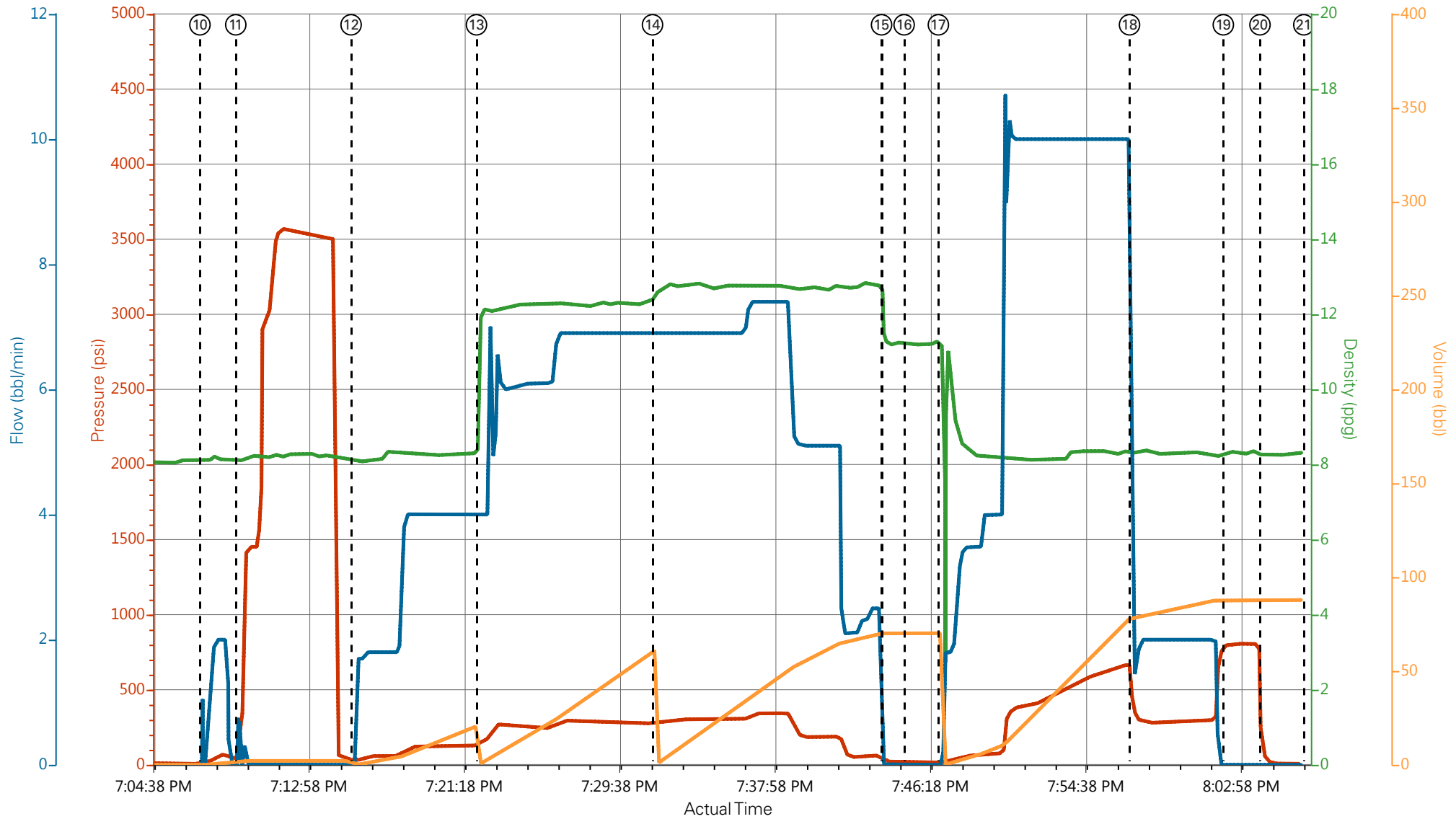
		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ1	VARICEM (TM) CEMENT	0	sack	12.8	2.11		7	11.77
		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	88.7	bbl	8.34			10	
Cement Left In Pipe		Amount	47 ft		Reason		Shoe Joint		
Comment									

## 1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	11/23/2014	04:00:01	USER					HES CREW CALLED OUT AT 04:00 WITH ON LOCATION TIME OF 09:00
Event	2	Pre-Convoy Safety Meeting	11/23/2014	06:20:52	USER					ALL HES EMPLOYEES
Event	3	Crew Leave Yard	11/23/2014	06:30:34	USER					HES CREW LEFT THE YARD AT 06:30
Event	4	Arrive at Location from Service Center	11/23/2014	09:00:00	USER					HES CREW ARRIVED ON TIME AT 09:00 RIG WAS STILL DRILLING HES CREW WAITED OFF LOCATION FOR RIG TO RUN CASING
Event	5	Assessment Of Location Safety Meeting	11/23/2014	14:00:14	USER					ALL HES EMPLOYEES
Event	6	Pre-Rig Up Safety Meeting	11/23/2014	15:50:30	USER					ALL HES EMPLOYEES
Event	7	Rig-Up Equipment	11/23/2014	16:00:45	USER					RIG UP IRON TO STAND PIPE, FRESH WATER LINES TO UP RIGHT, BULK LINE TO BULK TRUCK
Event	8	Pre-Job Safety Meeting	11/23/2014	18:35:10	USER					ALL HES EMPLOYEES AND RIG EMPLOYEES
Event	9	Start Job	11/23/2014	18:54:20	COM5	0.00	-0.21	0.00	0.0	TD: 1174 TP: 1174 SJ: 47 OH: 13 1/2 CSG: 9 5/8 32.3# H-40 MUD: 10.1 VIS: 67 RIG CIRCULATED FOR 1 HOUR ONCE ON BOTTOM
Event	10	Prime Pumps	11/23/2014	19:07:16	COM5	71.0	8.12	2.0	2.0	PRIME LINES WITH FRESH WATER
Event	11	Test Lines	11/23/2014	19:09:11	COM5	3571.0	8.09	0.70	2.1	PRESSURE TEST LINES TO 3571 PSI KICK OUTS WORKING AND 5TH GEAR STALL OUT AT 1400 PSI
Event	12	Pump Spacer 1	11/23/2014	19:15:22	COM5	130.0	8.36	4.0	20.0	PUMP 20 BBLS OF FRESH WATER SPACER
Event	13	Pump Lead Cement	11/23/2014	19:22:06	COM5	136.00	12.34	7.0	59.3	VARICEM 140 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 59.3 BBLS OF LEAD PUMPED AWAY

Event	14	Pump Tail Cement	11/23/2014	19:31:32	COM5	285.00	12.83	7.0	67.6	VARICEM 180 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 67.6 BBLS OF TAIL PUMPED AWAY
Event	15	Shutdown	11/23/2014	19:43:50	USER	31.00	12.84	0.00	67.6	SHUTDOWN END OF CEMENT READY ATNKS FOR DISPLACEMENT HES CREW WASHED UP ONTOP OF PLUG
Event	16	Drop Top Plug	11/23/2014	19:45:02	USER	16.00	12.86	0.00	67.6	TOP PLUG AWAY WITH NO ISSUES
Event	17	Pump Displacement	11/23/2014	19:46:53	COM5	650.0	8.45	10.0	88.7	PUMP 88.7 B BLS OF FRESH WATER DISPLACEMENT
Event	18	Slow Rate	11/23/2014	19:57:08	USER	415.00	8.29	2.0	79.0	SLOW RATE TO BUMP PLUG
Event	19	Bump Plug	11/23/2014	20:02:10	COM5	300.0	8.34	0.00	88.7	PLUG BUMP AT 300 PSI AND WAS TOOK UP TO 806 PSI
Event	20	Check Floats	11/23/2014	20:04:08	USER	806.0	8.26	0.00	88.7	FLOATS HELD WITH .5 BBL BACK TO DISLACEMENT TANKS
Event	21	End Job	11/23/2014	20:06:29	COM5					JOB WENT WELL WITH NO ISSUES WELL HAD FULL RETURNS THOROUGH OUT JOB WITH 20 BBLS OF CEMENT TO SURFACE NO SUGAR WAS USED
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	11/23/2014	20:15:06	USER					ALL HES EMPLOYEES
Event	23	Pre-Rig Down Safety Meeting	11/23/2014	20:20:18	USER					ALL HES EMPLOYEES
Event	24	Rig-Down Equipment	11/23/2014	20:25:33	USER					RIG DOWN RIG FLOOR, IRON, FRESH WATER LINES, BULK LINE, WASH UP AND BLOW DOWN PUMP
Event	25	Pre-Convoy Safety Meeting	11/23/2014	21:50:43	USER					ALL HES EMPLOYEES
Event	26	Crew Leave Location	11/23/2014	22:00:54	USER					THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

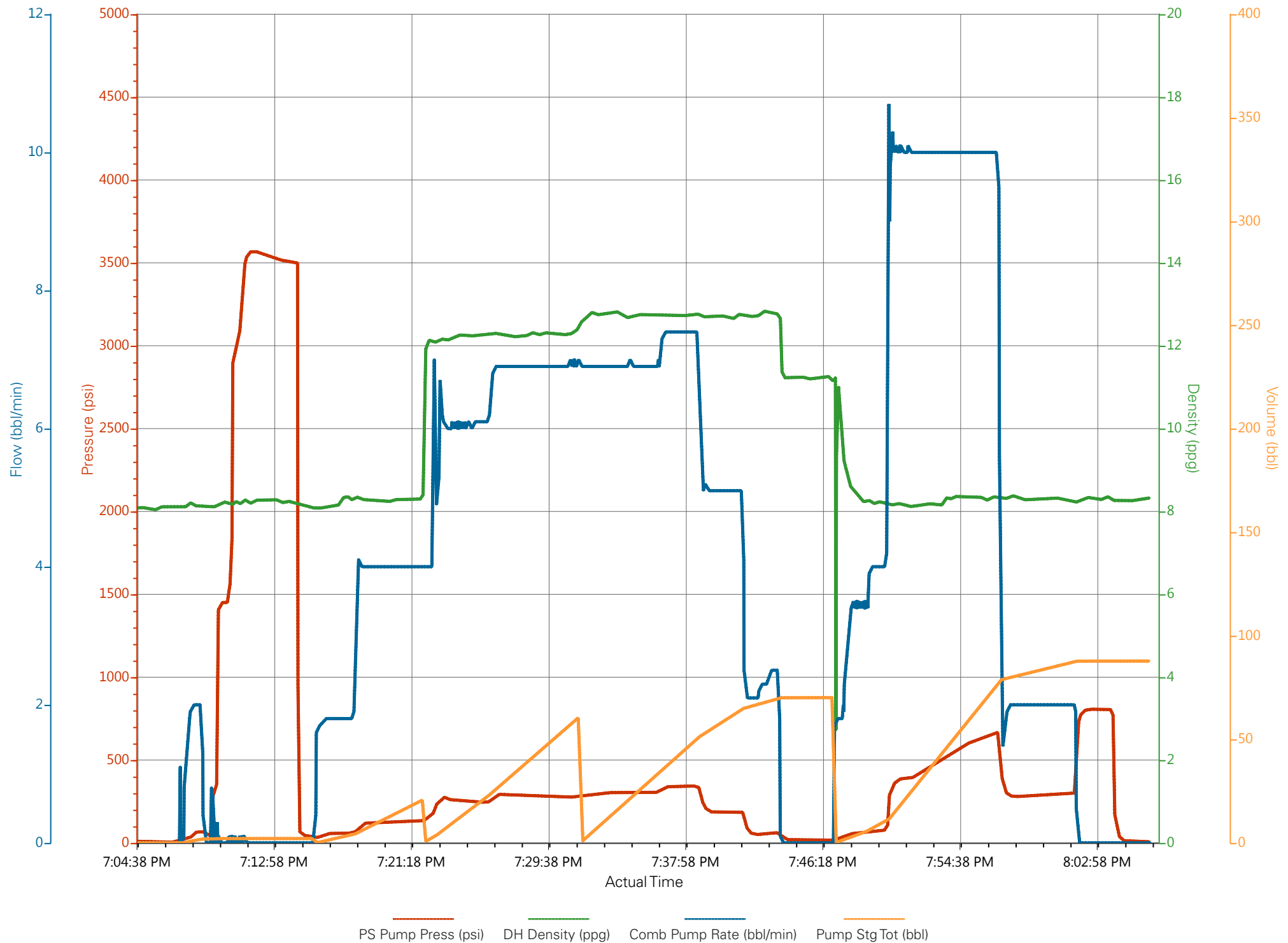
# RU 531-7 Surface



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

① Call Out n/a;n/a;n/a;n/a	⑧ Pre-Job Safety Meeting 2;-0.23;0;0	⑮ Shutdown 31;11.27;0;70.1	22 Post-Job Safety Meeting (Pre Rig-Down) n/a;n/a;n/a;n/a
② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a	⑨ Start Job 0;-0.21;0;0	⑯ Drop Top Plug 16;11.24;0;70.1	23 Pre-Rig Down Safety Meeting n/a;n/a;n/a;n/a
③ Crew Leave Yard n/a;n/a;n/a;n/a	⑩ Prime Lines 16;8.12;0;0	⑰ Pump Displacement 15;11.21;0;0	24 Rig-Down Equipment n/a;n/a;n/a;n/a
④ Arrive at Location from Service Center n/a;n/a;n/a;n/a	⑪ Test Lines 62;8.09;0.7;2.1	⑱ Slow Rate 415;8.29;3.2;79	25 Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a	⑫ Pump Spacer 1 30;8.09;0;2.1	⑲ Bump Plug 801;8.34;0;87.8	26 Crew Leave Location n/a;n/a;n/a;n/a
⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑬ Pump Lead Cement 136;11.34;4;0.5	20 Check Floats 81;8.26;0;87.8	
⑦ Rig-Up Equipment n/a;n/a;n/a;n/a	⑭ Pump Tail Cement 285;12.56;6.9;61.3	21 End Job n/a;n/a;n/a;n/a	

# RU 531-7 Surface



# HALLIBURTON

## Water Analysis Report

Company: WPX ENERGY

Submitted by: CHRIS KUKUS

Attention: LARRY COOKSEY

Lease YOUBERG

Well # RU 531-7

Date: 11/23/2014

Date Rec.: 11/23/2014

S.O.# 901858883

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>0</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>UNDER 400</b> Mg / L
Hardness		<b>50</b> Mg / L
Temp	<i>40-80</i>	<b>40</b> Deg
Total Dissolved Solids		<b>200</b> Mg / L

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 if



<b>Sales Order #:</b> 0901858883	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/23/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> GARY VALLAD		<b>API / UWI: (leave blank if unknown)</b> 05-045-22351-00
<b>Well Name:</b> YOUBERG		<b>Well Number:</b> 0080456559
<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	11/23/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX35027
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	GARY VALLAD
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	GREAT JOB!

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

General	
<b>Survey Conducted Date</b> The date the survey was conducted	11/23/2014

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.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	3
<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>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<b>Customer Non-Productive Rig Time (hrs)</b> 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.	0
<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	6
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> GARFIELD

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<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>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<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>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<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