

WPX Energy Rocky Mountain LLC- EBUS

RU 532-7

**Nabors 576**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 02/05/15  
Job Date: 01/24/2015

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3599679	Quote #: 0021994004	Sales Order #: 0902068234
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: AL HARTL	
Well Name: YOUBERG RU		Well #: 532-7	API/UWI #: 05-045-22510-00
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SE-7-7S-93W-1173FSL-1191FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Eric Carter	
<b>Job</b>			

Formation Name				
Formation Depth (MD)	Top	0 FT.	Bottom	1346
Form Type	BHST			
Job depth MD	1313ft		Job Depth TVD	
Water Depth			Wk Ht Above Floor	4 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		9.625	9.001	32.3			0	1346		0
Open Hole Section			13.5				0	1346		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
Stage Tool					Centralizers			

### Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty

### Fluid Data

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
Stage/Plug #: 1									
1	Fresh Water	Fresh Water	20	bbl	8.34			4	
2	VariCem GJ1	VARICEM (TM) CEMENT	175	sack	12.3	2.38	13.77	8	
			13.70 Gal	FRESH WATER					

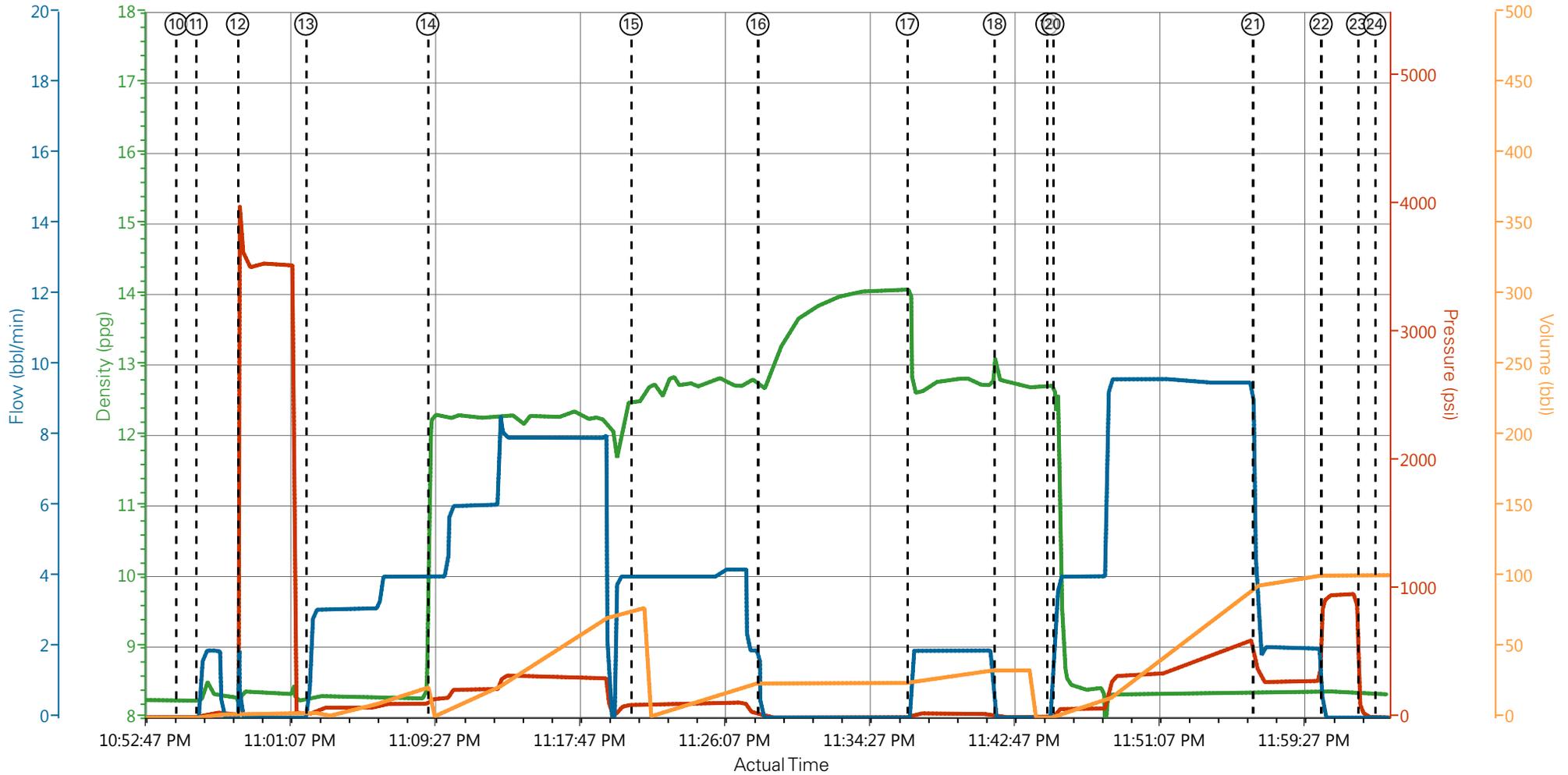
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	VariCem GJ1	VARICEM (TM) CEMENT	89	sack	12.8	2.11	11.77	3		
11.71 Gal		FRESH WATER								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
4	Fresh Water Displacement	Fresh Water Displacement	102.8	bbl	8.34			10		
<b>Cement Left In Pipe</b>		<b>Amount</b>	40 ft		<b>Reason</b>			Shoe Joint		
<b>Comment</b>										

### 3.5 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	1/23/2015	14:00:00	USER					
Event	2	Depart Yard Safety Meeting	1/23/2015	17:50:00	USER					ATTENDED BY ALL HES CREW
Event	3	Crew Leave Yard	1/23/2015	18:00:00	USER					
Event	4	Arrive At Loc	1/23/2015	20:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	1/23/2015	21:30	USER					ATTENDED BY ALL HES CREW
Event	6	Other	1/23/2015	21:40	USER					SPOT EQUIPMENT
Event	7	Pre-Rig Up Safety Meeting	1/23/2015	21:50	USER					ATTENDED BY ALL HES CREW
Event	8	Rig-Up Equipment	1/23/2015	22:00	USER					
Event	9	Pre-Job Safety Meeting	1/23/2015	22:30	USER					ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Event	10	Other	1/23/2015	22:54:45	USER					TP 1312.76', LJ 32', TD 1345.8', MW 10 PPG, CASING 9.625", 32.3#, J-55, SJ 40.15', SET AT 1345.8', HOLE 13.5', RIG CIRCULATED FOR 1 HR PRIOR TO JOB
Event	11	Other	1/23/2015	22:55:54	USER	8.34	40	2	2	FRESH WATER
Event	12	Test Lines	1/23/2015	22:58:17	USER					PRESSURED UP TO 3545 PSI, PRESSURE HELD
Event	13	Pump Spacer	1/23/2015	23:02:13	USER	8.34	100	4	20	FRESH WATER
Event	14	Pump Lead Cement	1/23/2015	23:09:13	USER	12.3	325	8	74.2	175 SKS VARICEM MIXED AT 12.3 PPG, 2.38 YIELD, 13.77 GL/SK
Event	15	Pump Tail Cement	1/23/2015	23:20:55	USER	12.8	100	3	25.5	175 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YIELD, 11.77 GL/SK

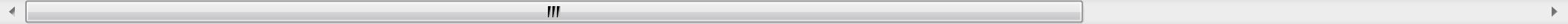
Event	16	Shutdown	1/23/2015	23:28:13	USER					HES SHUTDOWN DUE TO BULK DELIVERY ISSUES. HES WAS UNABLE TO DISCHARGE TAIL CEMENT OUT OF BULK EQUIPMENT. HES CONSULTED WITH COMPANY REP. HES PUMPED FINAL TUB OF CEMENT AND CONTINUED TO DISPLACE. ESTIMATED VOLUME OF TAIL CEMENT PUMPED WAS 33.5 BBLS, 88 SKS OF CEMENT
Event	17	Resume	1/23/2015	23:36:49	USER	12.8	2	60	8	
Event	18	Shutdown	1/23/2015	23:41:50	USER					
Event	19	Drop Top Plug	1/23/2015	23:44:51	USER					PLUG LAUNCHED
Event	20	Pump Displacement	1/23/2015	23:45:11	USER	8.34	600	10	92.8	FRESH WATER
Event	21	Slow Rate	1/23/2015	23:56:41	USER	8.34	300	2	10	
Event	22	Bump Plug	1/24/2015	00:00:37	USER		945			PLUG LANDED
Event	23	Check Floats	1/24/2015	00:02:43	USER					FLOATS HELD
Event	24	Other	1/24/2015	00:03:42	USER					GOOD CIRCULATION THROUGHOUT JOB, 10 BBLS OF CEMENT TO SURFACE, PIPE NOT MOVED DURING JOB
Event	25	Post-Job Safety Meeting (Pre Rig-Down)	1/24/2015	00:10	USER					ATTENDED BY ALL HES CREW
Event	26	Rig-Down Equipment	1/24/2015	00:20	USER					
Event	27	Depart Location Safety Meeting	1/24/2015	00:50	USER					ATTENDED BY ALL HES CREW
Event	28	Crew Leave Location	1/24/2015	01:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

# WPX - RU 532-7 - SURFACE



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

- |   |   |                                     |                                    |                       |
|---|---|-------------------------------------|------------------------------------|-----------------------|
| ① Call Out n/a;n/a;n/a;n/a                              | ⑥ Other n/a;n/a;n/a;n/a                     | ⑪ Fill Lines 8.24;3;0.9;0           | ⑯ Shutdown 12.72;14;0;24.5         | ⑳ Slow Rate 8.35;409  |
| ② Depart Yard Safety Meeting n/a;n/a;n/a;n/a            | ⑦ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑫ Test Lines 8.34;3730;0;2.3        | ⑰ Resume 13.98;7;1.9;24.6          | ㉑ Bump Plug 8.37;91   |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a                       | ⑧ Rig-Up Equipment n/a;n/a;n/a;n/a          | ⑬ Pump Spacer 8.24;24;0.8;2.3       | ⑱ Shutdown 12.78;7;0;33.5          | ㉒ Check Floats 8.33;6 |
| ④ Arrive At Loc n/a;n/a;n/a;n/a                         | ⑨ Pre-Job Safety Meeting n/a;n/a;n/a;n/a    | ⑭ Pump Lead Cement 12.22;138;4;0.2  | ㉓ Drop Top Plug 12.71;2;0;0        | ㉔ End Job 8.33;1;0;10 |
| ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑩ Start Job 8.24;3;0;0                      | ⑮ Pump Tail Cement 12.45;100;4;75.5 | ㉔ Pump Displacement 12.47;17;2;0.3 | ㉕ Post-Job Safety M   |



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Created: 2015-01-23 20:47:17, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/23/2015 10:04:58 PM

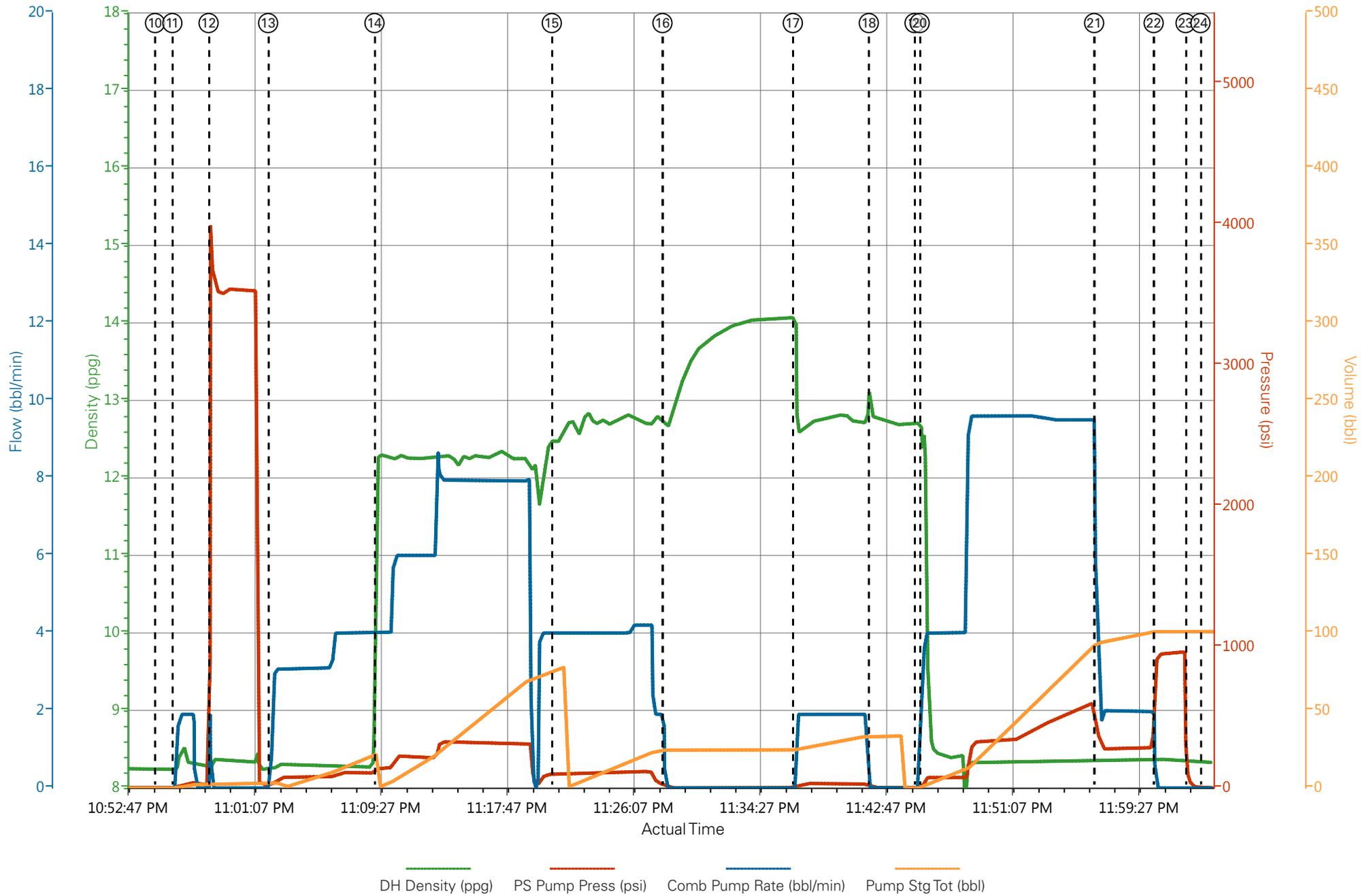
Well: RU 532-7

Representative: AL HARTL

Sales Order #: 090268234

ERIC CARTER: WES GOWEN/ELITE 4

# WPX - RU 532-7 - SURFACE



# HALLIBURTON

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## Water Analysis Report

Company: WPX  
Submitted by: ERIC CARTER  
Attention: J.Trout  
Lease: NABORS 576  
Well #: RGU 532-7

Date: 2/5/2015  
Date Rec.: 2/5/2015  
S.O.#: 902068234  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Hardness	<i>500</i>	<i>250</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>&lt;200</i> Mg / L
Temp	<i>40-80</i>	<i>48</i> Deg
Total Dissolved Solids		<i>450</i> Mg / L

Respectfully: ERIC CARTER

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

<b>Sales Order #:</b> 0902068234	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/24/2015
<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> 05-045-22510-00
<b>Well Name:</b> YOUBERG RU		<b>Well Number:</b> 0080688919
<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	1/24/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX15491
Customer Participation	Did the customer participate in this survey? (Y/N)	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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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	1/24/2015
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>	1.5
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>	1
Unplanned shutdown is when injection stops for any period of time.	
<b>Reason For Unplanned Shutdown</b>	CEMENT DELIVERY ISSUES

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

Reason For Unplanned Shutdowns (after Starting To Pump)	
<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.	0.25
<b>Reason For Non-Productive Rig Time</b> Reason For Non-productive Rig Time (Cementing PSL Responsibility)	CEMENT DELIVERY ISSUES
<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, 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	95
<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	85
<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)	Y
<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