

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RU 331-7

**Nabors 574**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 12/26/2014  
Job Date: 12/06/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3356176	Quote #:	Sales Order #: 0901909678
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Matt Huttson	
Well Name: YOUNBERG		Well #: RU 331-7	API/UWI #: 05-045-22349-00
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NE-7-7S-93W-2448FNL-389FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 574	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srv Supervisor: Carlton Kukus	

### Job

Formation Name	
Formation Depth (MD)	Top
Form Type	BHST
Job depth MD	1187ft
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	New	9.625	9.001	32.3	8 RD		0	1187	0	1187
Open Hole Section			13.5				0	1187	0	1187

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1187	Top Plug	9.625	1	HES
Float Shoe	9.625	1			Bottom Plug	9.625		HES
Float Collar	9.625	1		1135.5	SSR plug set	9.625		HES
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 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	140	sack	12.3	2.38		8	13.77	

13.70 Gal		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	175	sack	12.8	2.11		7	11.77
11.71 Gal		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	89.4	bbl	8.34			10	
Cement Left In Pipe		Amount	46 ft		Reason		Shoe Joint		
Comment 30 BBLS OF CEMENT TO SURFACE, RIG USED 40 POUNDS OF SUGAR									

## 1.0 Real-Time Job Summary

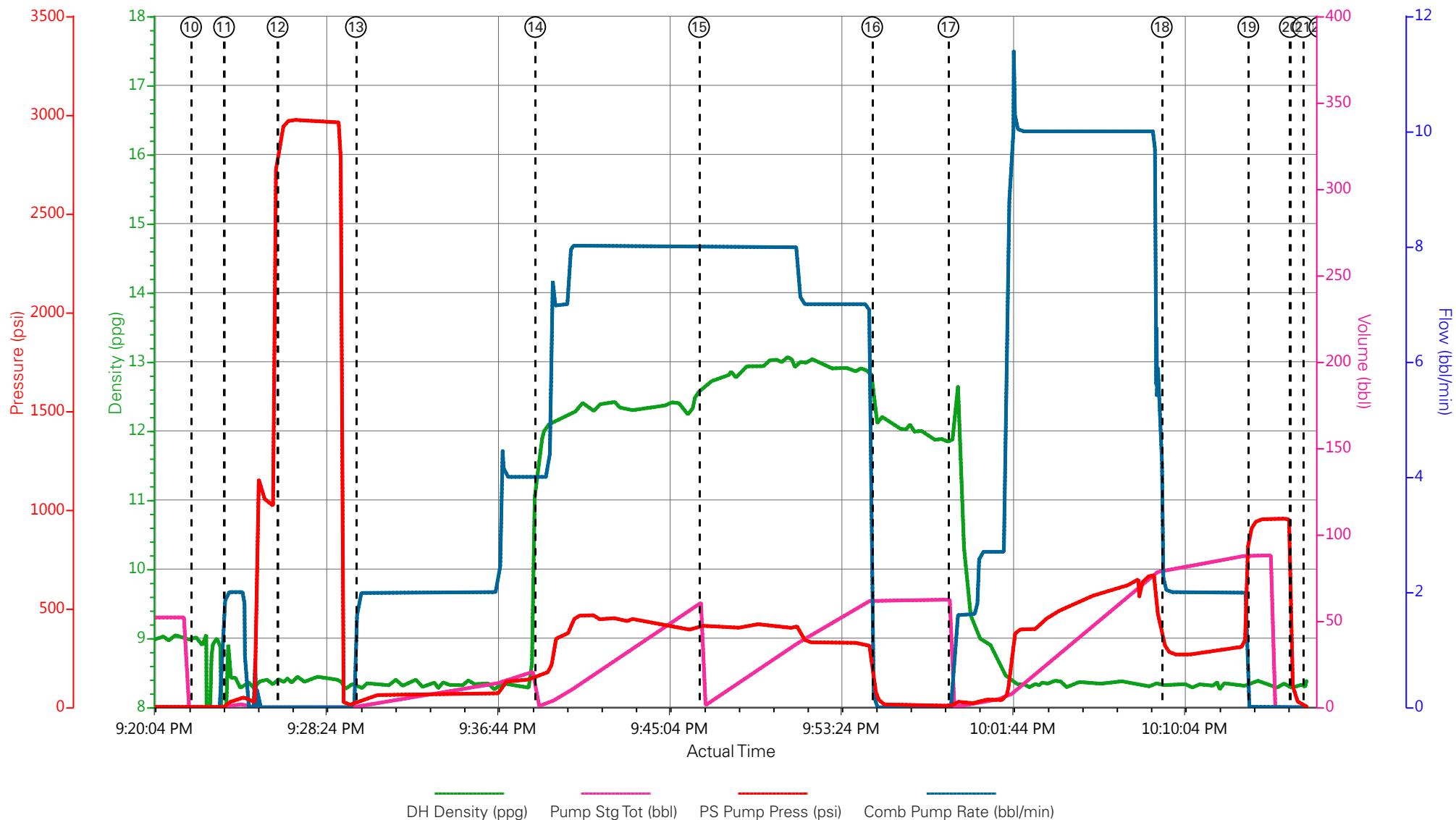
## 1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	12/6/2014	10:30:00	USER					ALL HES CREW
Event	2	Pre-Convoy Safety Meeting	12/6/2014	12:30:00	USER					ALL HES CREW
Event	3	Crew Leave Yard	12/6/2014	13:00:00	USER					1-F-450 PICKUP, 1-F-150 PICKUP, 1-ELITE PUMP TRUCK, 1-660 BULK TRUCK
Event	4	Arrive At Loc	12/6/2014	15:00:00	USER					HES CREW ARRIVED 1 HOUR EARLY
Event	5	Assessment Of Location Safety Meeting	12/6/2014	15:15:00	USER					RIG WAS STILL DRILLING HES SPOTTED EQUIPMENT
Event	6	Pre-Rig Up Safety Meeting	12/6/2014	15:30:00	USER					ALL HES CREW
Event	7	Rig-Up Equipment	12/6/2014	16:00:00	USER					RIG UP IRON TO THE STAND PIPE, WATER HOSES TO THE UPRIGHT AND DAY TANK AND BULK HOSE TO BULK TRUCK
Event	8	Rig-Up Completed	12/6/2014	16:45:00	USER					ALL EQUIPMENT RIGGED UP
Event	9	Pre-Job Safety Meeting	12/6/2014	21:00:00	USER					ALL HES CREW AND RIG CREW
Event	10	Start Job	12/6/2014	21:22:00	USER					TD: 1187FT TP: 1182FT SJ: 46.5FT OH: 13.5 CSG: 9.625 32.3# H-40 MUD WT: 9.0
Event	11	Fill Lines	12/6/2014	21:23:35	USER	8.34	130	2	2	FILL LINES TO PRESSURE TEST
Event	12	Pressure Test	12/6/2014	21:26:12	USER	8.34	2975			PRESSURE TEST TO 3000 PSI, PRESSURE TEST OK
Event	13	Pump Spacer	12/6/2014	21:30:00	USER	8.34	130	20	4	20BBL FRESH WATER SPACER

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comb Pump Rate (bbl/min)	Comments
Event	14	Pump Lead Cement	12/6/2014	21:38:42	USER	12.3	430	59.3	8	140 SKS OF VARICEM CEMENT 12.3PPG 2.38YIELD 13.77GAL/SK WEIGHT OF CEMENT VERIFIED VIA MUD SCALES THROUGHOUT LEAD CEMENT
Event	15	Pump Tail Cement	12/6/2014	21:46:39	USER	12.8	320	65.7	7	175 SKS OF VARICEM CEMENT 12.8PPG 2.11YIELD 11.77GAL/SK WEIGHT OF CEMENT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT
Event	16	Shutdown	12/6/2014	21:55:03	USER					SHUTDOWN END OF CEMENT, HES WASH UP ON TOP OF PLUG AND READY TANKS FOR DISPLACEMENT
Event	17	Pump Displacement	12/6/2014	21:58:45	USER	8.34	645	80	10	FRESH WATER DISPLACEMENT
Event	18	Slow Rate	12/6/2014	22:09:06	USER	8.33	704	10	2	SLOW RATE TO BUMP PLUG
Event	19	Bump Plug	12/6/2014	22:13:18	USER	8.35	320	89.4		BUMPED PLUG AT 320 PSI , TOOK TO 960PSI
Event	20	Check Floats	12/6/2014	22:15:19	USER	8.30				FLOATS HELD .5 BBLS BACK TO TANKS
Event	21	End Job	12/6/2014	22:17:00	USER					GOOD RETURNS THROUGHOUT CEMENT JOB, 30 BBLS OF CEMENT BACK TO SURFACE, RIG USED 40 POUNDS OF SUGAR, THANK YOU FOR CHOOSING HALLIBURTON CEMENT CARL KUKUS AND CREW
Event	22	Pre-Rig Down Safety Meeting	12/6/2014	22:20:00	USER					ALL HES CREW
Event	23	Rig-Down Equipment	12/6/2014	22:25:00	USER					RIG DOWN AND RACK UP ALL EQUIPMENT
Event	24	Rig-Down Completed	12/6/2014	22:45:00	USER					ALL EQUIPMENT RIGGED DOWN
Event	25	Pre-Convoy Safety Meeting	12/6/2014	23:15:00	USER					ALL HES CREW
Event	26	Crew Leave Location	12/6/2014	23:40:00	USER					1-F-450 PICKUP, 1-F-150 PICKUP, 1-ELITE PUMP

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comb Pump Rate (bbl/min)	Comments
				0						TRUCK, 1-660 BULK TRUCK

# WPX/YOUBERG RU 331-7/SURFACE



⑨ Pre-Job Safety Meeting 8.97;52;2;0	⑬ Pump Spacer 8.28;0.4;28;1.9	⑰ Pump Displacement 11.87;0;8;0	21 Pre-Rig Down Safety Meeting 8.38;0;4;0	25 Crew Leave Location n/a;n/a;n/a;n/a
⑩ Start Job 9;0;2;0	⑭ Pump Lead Cement 11.55;0.7;168;4	⑱ Slow Rate 8.33;79.8;310;2.1	22 Rig-Down Equipment n/a;n/a;n/a;n/a	26 End Job n/a;n/a;n/a;n/a
⑪ Fill Lines 8.88;0.4;16;2	⑮ Pump Tail Cement 12.59;0.1;406;8	⑲ Bump Plug 8.35;87.9;909;0	23 Rig-Down Completed n/a;n/a;n/a;n/a	
⑫ Pressure Test 8.42;0;2908;0	⑯ Shutdown 12.09;62.3;79;0	20 Check Floats 8.28;0;92;0	24 Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a	

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Created: 2014-12-06 15:27:06, Version: 4.0.248

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 12/6/2014 7:58:54 PM

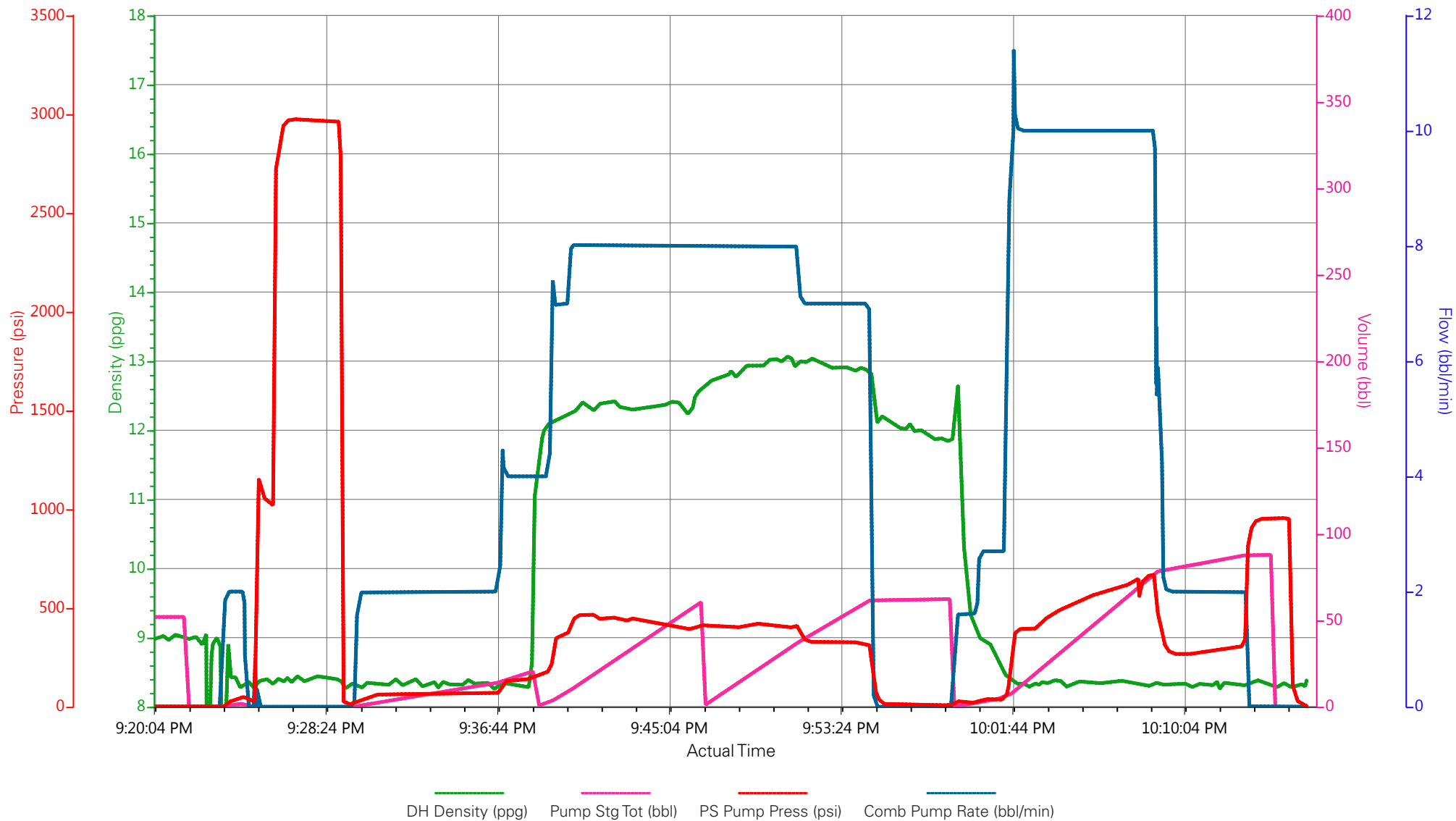
Well: YOUBERG RU 331-7

Representative: Matt Hutson

Sales Order #: 901909678

Supervisor/Operator: Carlton Kukus/Eric Carter E-6

# WPX/YOUBERG RU 331-7/SURFACE





# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: Carl Kukus  
Attention: J.Trout  
Lease YOUBERG  
Well # RU 331-7

Date: 12/6/2014  
Date Rec.: 12/6/2014  
S.O.# 901909678  
Job Type: Surface

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>200</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>3</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>200</i> Mg / L
Chlorine (Cl <sub>2</sub> )		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>50</i> Deg
Total Dissolved Solids		<i>250</i> Mg / L

Respectfully: Carl 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

<b>Sales Order #:</b> 0901909678	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 12/6/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> MATT HUTSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-22349-00
<b>Well Name:</b> YOUBERG		<b>Well Number:</b> 0080456560
<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	12/6/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB44726
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MATT HUTSON
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> The date the survey was conducted	12/6/2014

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>Pumping Hours</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<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>Was this a Primary Cement Job (Yes / No)</b> Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<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>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)	N/A
<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	8
<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