

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RU 33-7

**Nabors 576**

# **Post Job Summary**

## **Cement Production Casing**

Date Prepared: 3/01/2015

Job Date: 02/27/2015

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3599831	Quote #: 0022003339	Sales Order #: 0902158742
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: RICK OAKS	
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: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: KYLE BATH	
<b>Job</b>			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	10151ft 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		9.625	9.001	32.3			0	1350		0
Casing	3	4.5	4	11.6			0	10142		0
Open Hole Section			8.75				1350	10152	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	4.5			10142		Top Plug	4.5	1	HES
Float Shoe	4.5					Bottom Plug	4.5		HES
Float Collar	4.5					SSR plug set	4.5		HES
Insert Float	4.5					Plug Container	4.5	1	HES
Stage Tool	4.5					Centralizers	4.5		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	10	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	EconoCem GJ2	ECONOCEM (TM) SYSTEM	280	sack	12.7	1.66		5	8.51	

8.51 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 ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/mi n</b>	<b>Total Mix Fluid Gal</b>
3	ThermaCem GJ2	THERMACEM (TM) SYSTEM	790	sack	13.5	1.74		5	7.6
8 lbm		KOL-SEAL, BULK (100064233)							
7.60 Gal		FRESH WATER							
0.30 %		HR-601, 50 LB BAG (101328348)							
<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 ft3/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	156	bbl	8.34				
<b>Cement Left In Pipe</b>	<b>Amount</b>	28 ft		<b>Reason</b>	Shoe Joint				
<b>Comment</b>									

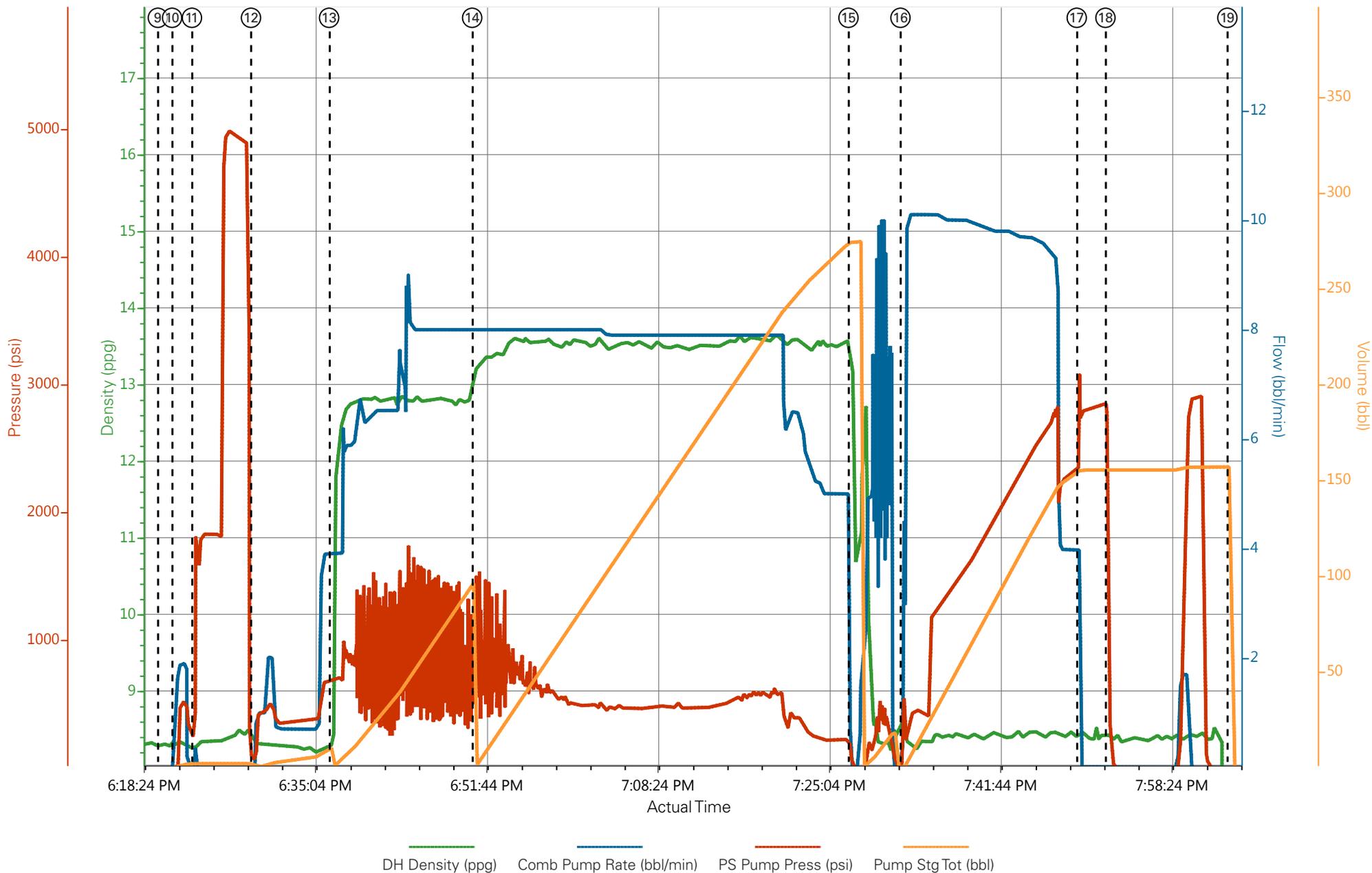
## 1.0 Real-Time Job Summary

### 1.1 Job Event Log

Type	Seq. No.	Graph Label	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>	Recirc Density <i>(ppg)</i>	Comments
Event	1	Call Out	2/26/2015	06:30:00	USER						
Event	2	Pre Convoy Safety Meeting	2/26/2015	08:30:00	USER						
Event	3	Depart Yard	2/26/2015	08:45:00	USER						
Event	4	Arrive On Location	2/26/2015	11:30:00	USER						RIG RUNNING CASING UPON HES ARRIVAL
Event	5	Site Assesment Safety Meeting	2/26/2015	12:00:00	USER						
Event	6	Pre Rig Up Safety Meeting	2/26/2015	16:00:00	USER						
Event	7	Rig Up Complete	2/26/2015	17:45:00	USER						
Event	8	Pre Job Safety Meeting	2/26/2015	18:00:00	USER						
Event	9	Start Job	2/26/2015	18:20:00	COM3						TD 10152, TP 10142.1, SJ 28.25, CSG 4.4"11.6, PREV CSG 9 5/8" 32.3 @ 1350, HOLE 8 3/4, MUD 11.8
Event	10	Prime Pumps	2/26/2015	18:21:23	COM3	8.33	2	540	2		PUMP 2 BBLS FRESH WATER
Event	11	Test Lines	2/26/2015	18:23:18	COM3						TEST LINES TO 4980 PSI
Event	12	Pump Fresh Water Spacer	2/26/2015	18:29:03	COM3	8.33	4	660	10		PUMP 10 BBLS FRESH WATER
Event	13	Pump Lead Cement	2/26/2015	18:36:39	COM3	12.7	8	990	82.8	12.7	MIX AND PUMP 280 SKS AT 12.7 PPG, 1.66 FT3/FT, 8.51 GAL/SK, RIG RECIPROCATING PIPE WHILE PUMPING
Event	14	Pump Tail Cement	2/26/2015	18:50:34	COM3	13.5	8	560	244.8	13.5	MIX AND PUMP 790 SKS AT 13.5 PPG, 1.74 FT3/FT, 7.6 GAL/SK
Event	15	Shutdown	2/26/2015	19:27:11	USER						SHUTDOWN WASH PUMPS AND LINES TO PIT
Event	16	Pump Displacement	2/26/2015	19:32:15	COM3	8.4	10	1900	156		PUMP 156.8 BBLS KCL DISPLACEMENT
Event	17	Bump Plug	2/26/2015	19:49:23	USER						BUMPED PLUG AT 2200 PSI TOOK TO 2800 PSI

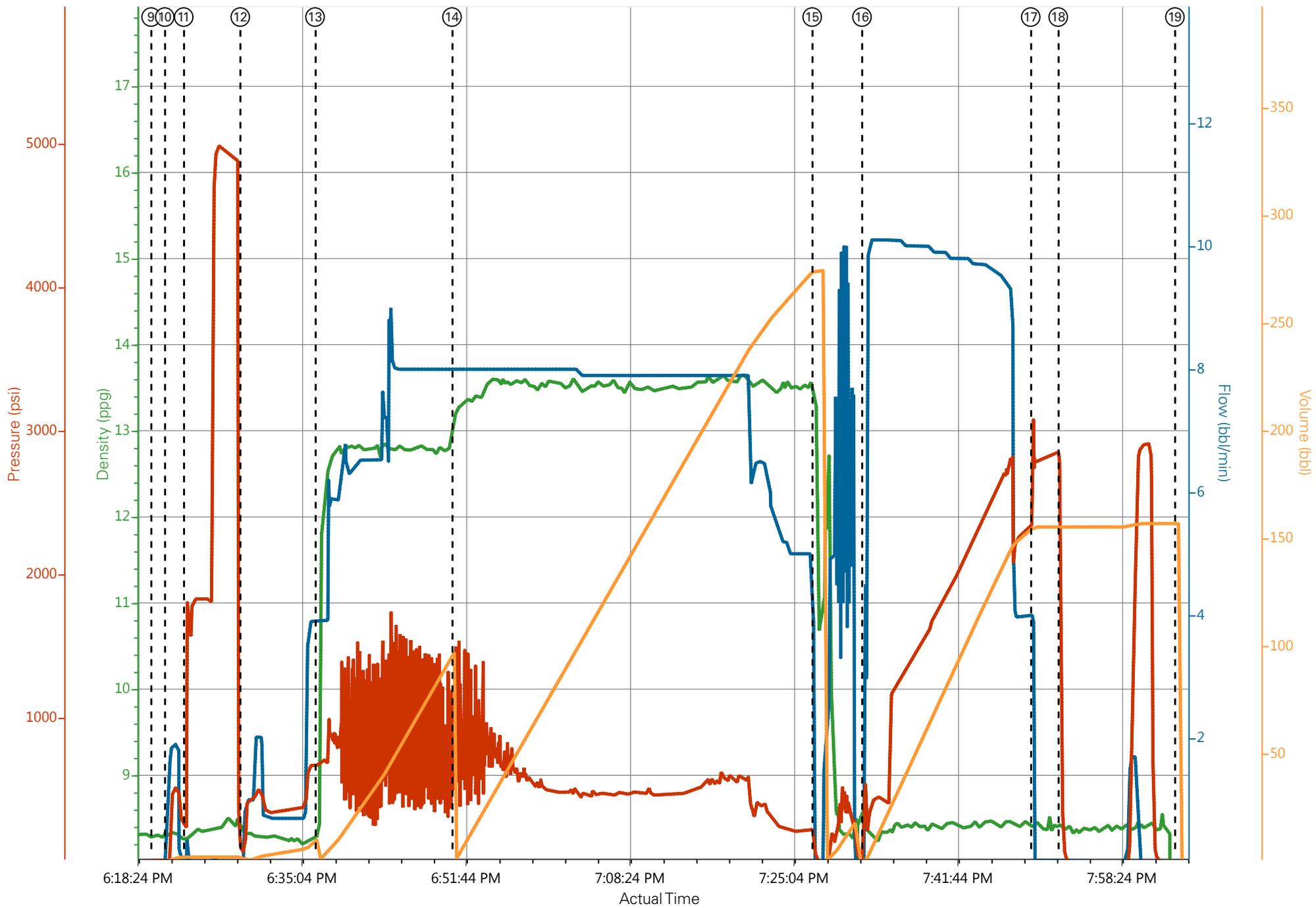
Event	18	Check Floats	2/26/2015	19:52:11	USER	AFTER REPRESSURING UP WELL FLOATS HELD TOOK 1.5 BBLS BACK TO TRUCK
Event	19	End Job	2/26/2015	20:04:03	COM3	GOOD CIRCULATION THROUGHOUT JOB
Event	20	Pre Rig Down Safety Meeting	2/26/2015	20:07:32	USER	
Event	21	Rig Down Complete	2/26/2015	21:30:00	USER	
Event	22	Pre Convoy Safety Meeting	2/26/2015	22:00:00	USER	
Event	23	Crew Depart Location	2/26/2015	22:15:00	USER	THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW

# WPX ~ RU 33-7 ~ PRODUCTION CASING



Safety Meeting n/a;n/a;n/a;n/a	⑨ Start Job 8.29;0;-2;0	⑬ Pump Lead Cement 8.29;3.9;670;0.1	⑰ Bump Plug 8.45;0.1;2799;155.3	21 Rig Down Complete n/a;n/a;n/a;n/a
Meeting n/a;n/a;n/a;n/a	⑩ Prime Pumps 8.32;0.8;1;0.1	⑭ Pump Tail Cement 13.19;8;744;0.2	⑱ Check Floats 8.44;0;1613;155.3	22 Pre Convoy Safety Meeting n/a;n/a;n/a;n/a
0.2;0;2;3.1	⑪ Test Lines 8.25;0.3;422;2	⑮ Shutdown 13.34;0;52;274.4	⑲ End Job -0.1;0;-12;156.9	23 Crew Depart Location n/a;n/a;n/a;n/a
Meeting 8.17;3;215;14	⑫ Pump Fresh Water Spacer 8.32;0;63;0	⑯ Pump Displacement 8.46;3;23;0.2	20 Pre Rig Down Safety Meeting -0.09;0;-13;0	

# WPX ~ RU 33-7 ~ PRODUCTION CASING



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

# HALLIBURTON

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## Water Analysis Report

Company:	<u>WPX</u>	Date:	<u>2/26/2015</u>
Submitted by:	<u>KYLE BATH</u>	Date Rec.:	<u>2/26/2015</u>
Attention:	<u>DALLAS SCOTT</u>	S.O.#	<u>902158742</u>
Lease	<u>RU</u>	Job Type:	<u>PRODUCTION</u>
Well #	<u>33-7</u>		

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>220</b> Mg / L
Hrdness	<i>500</i>	<b>0</b> Mg / L
Iron (FE2)	<i>300</i>	<b>200</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200</b> Mg / L
Temp	<i>40-80</i>	<b>55</b> Deg
Total Dissolved Solids		<b>380</b> Mg / L

Respectfully: KYLE BATH

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

<b>Sales Order #:</b> 0902158742	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 2/26/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT PRODUCTION CASING BOM
<b>Customer Representative:</b> RICK OAKS		<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	2/26/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB49384
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>	2/26/2015
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>	Deviated
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>	5
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>	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>	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	98
<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	98
<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