

WPX Energy Rocky Mountain LLC- EBUS

RU 41-7

**Nabors 574**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 01/23/2015  
Job Date: 01/19/2015

Submitted by: Evan Russell – Grand Junction Cement Engineer

*The Road to Excellence Starts with Safety*

Sold To #: 300721	Ship To #: 3356181	Quote #:	Sales Order #: 0902046803
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: GARY VALLAD	
Well Name: YOUNBERG		Well #: RU 41-7	API/UWI #: 05-045-22350-00
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NE-7-7S-93W-2441FNL-389FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 574	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Thomas Ponder	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	1176ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 6ft
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	1176		0
Open Hole Section			13.5				0	1188		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1				Top Plug	9.625	1	HES
Float Shoe	9.625	1		1176		Bottom Plug	9.625		
Float Collar	9.625	1		1129		SSR plug set	9.625		
Insert Float	9.625	1				Plug Container	9.625	1	HES
Stage Tool	9.625	1				Centralizers	9.625		

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								

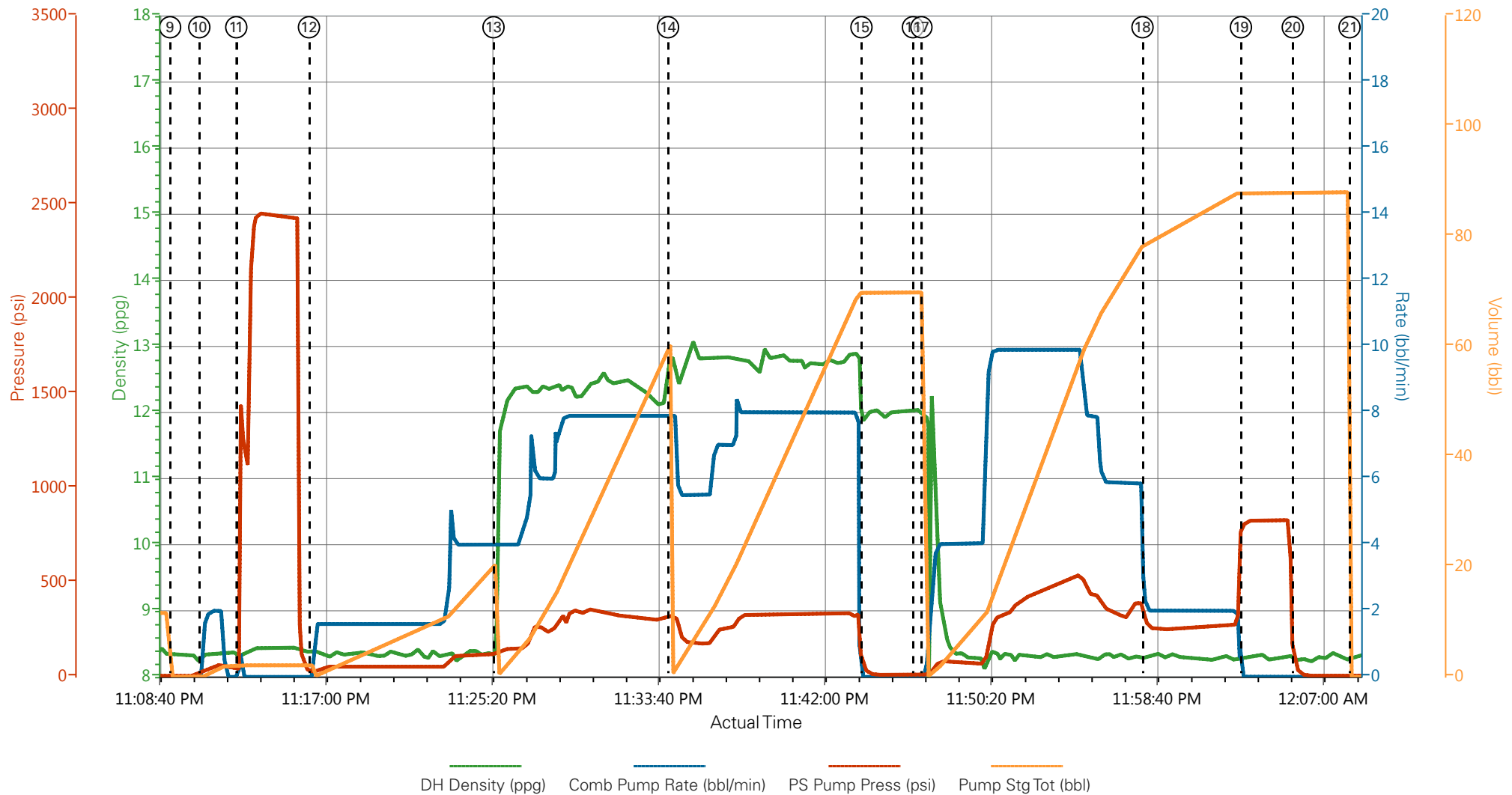
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ1	VARICEM (TM) CEMENT	180	sack	12.8	2.11		8	11.77
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	88.9	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	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	1/18/2015	12:30:00	USER					ON LOCATION TIME @ 1900 ON 01/18/2015
Event	2	Pre-Convoy Safety Meeting	1/18/2015	14:45:00	USER					ALL INDIVIDUALS INVOLVED IN CONVOY PRESENT FOR MEETING
Event	3	Crew Leave Yard	1/18/2015	15:00:00	USER					ALL VEHICLES LEFT THE YARD AT THE SAME TIME
Event	4	Arrive At Loc	1/18/2015	17:30:00	USER					RIG WAS STILL RIGGING DOWN BHA WHEN CREW ARRIVED ON LOCATION
Event	5	Assessment Of Location Safety Meeting	1/18/2015	21:30:00	USER					TD - 1188', TP - 1176', SJ - 47', MUD - 10.1 PPG, OPEN HOLE - 13 1/2", SURFACE CASING - 9 5/8" 32.3# H-40
Event	6	Pre-Rig Up Safety Meeting	1/18/2015	21:45:00	USER					JSA PERFORMED
Event	7	Rig-Up Equipment	1/18/2015	22:00:00	USER					1 - 550 PICKUP TURCK, 1 - ELITE PUMPING UNIT, 1 - 660 CUFT BULK TRAILER, 1 - 400 CUFT BODY LOAD, 1 - 9 5/8" TOP PLUG, PLUG CONTAINER AND QUICK LATCH, 2" CIRCULATING IRON
Event	8	Pre-Job Safety Meeting	1/18/2015	22:45:00	USER					ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 2215
Event	9	Start Job	1/18/2015	23:09:21	COM7					RIGGED UP RIG FLOOR WITH STEEL HOSE FROM STANDPIPE TO PLUG CONTAINER
Event	10	Prime Pumps	1/18/2015	23:10:48	COM7	8.33	2	60	2	FILL LINES WITH FRESH WATER
Event	11	Test Lines	1/18/2015	23:12:40	COM7		.1	2454	.1	GOOD PRESSURE TEST NO

										LEAKS IN THE LINES		
Event	12	Pump Spacer 1	1/18/2015	23:16:18	COM7	8.33	4	122	20	FRESH WATER, WEIGHED UP FIRST TUB OF CEMENT		
Event	13	Pump Lead Cement	1/18/2015	23:25:33	COM7	12.3	8	335	59.3	140 SKS 12.3 PPG 2.38 FT3/SK 13.77 GAL/SK		
Event	14	Pump Tail Cement	1/18/2015	23:34:18	COM7	12.8	8	330	69.7	180 SKS 12.8PPG 2.11 FT3/SK 11.77 GAL/SK, HAD DELIVERY ISSUES AT THE BEGINNING OF TAIL HAD TO SLOW RATE TO 5 BPM TO GET DENSITY LINED OUT BEFORE BRINGING RATE BACK TO 8 BPM		
Event	15	Shutdown	1/18/2015	23:44:00	USER							
Event	16	Drop Top Plug	1/18/2015	23:46:35	USER					PLUG DROP VERIFIED VIA TATTLE TELL BY THE CO REP		
Event	17	Pump Displacement	1/18/2015	23:47:00	COM7	8.33	10	510	78.9	FRESH WATER, FIRST 10 BBL OF DISPLACEMENT USED TO WASH UP MIXING TUB		
Event	18	Slow Rate	1/18/2015	23:58:05	USER	8.33	2	240	10	GOOD RETURNS THROUGH OUT THE JOB, CIRCULATED 30 BBL OF CEMENT TO SURFACE		
Event	19	Bump Plug	1/19/2015	00:03:01	COM7	8.33	2	270	88.9	PLUG BUMPED		
Event	20	Check Floats	1/19/2015	00:05:37	USER			831	88.9	FLOATS HELD, 1/2 BBL BACK TO THE DISPLACEMENT TANKS		
Event	21	End Job	1/19/2015	00:08:28	COM7					THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW		

# WPX - YOUNBERG RU 41-7 - 9.625 IN SURFACE



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

▼ **HALLIBURTON** | iCem® Service

Created: 2015-01-18 22:14:57, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-  
EBUS

Job Date: 1/18/2015 10:16:29 PM

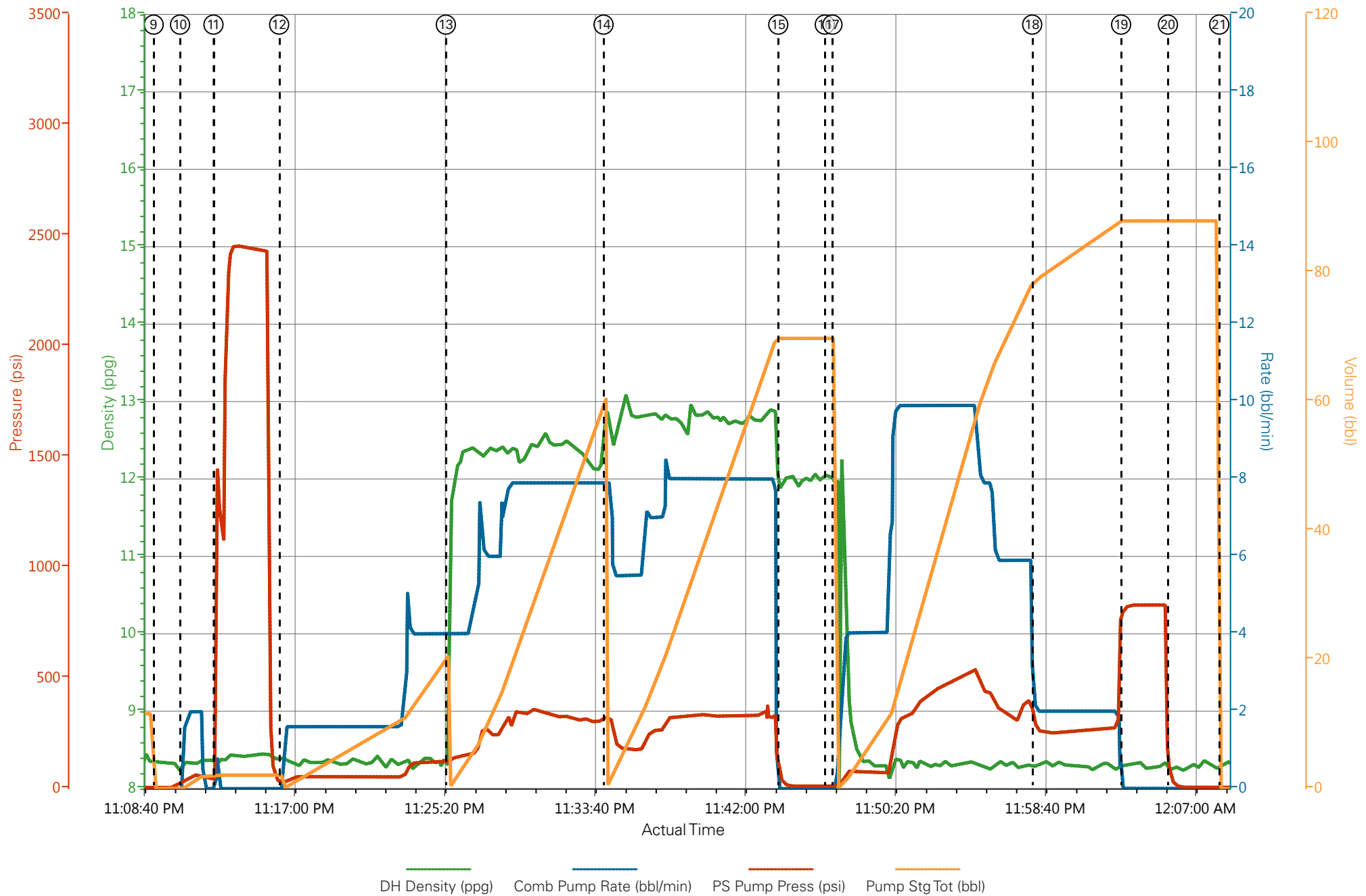
Well: YOUNBERG RU 41-7

Representative: GARY VALLAD

Sales Order #: 902046806

ELITE #6: ADAM ANGELO /TRAVIS BROWN  
THOMAS PONDER

# WPX - YOUNBERG RU 41-7 - 9.625 IN SURFACE



# HALLIBURTON

Company:	<u>WPX</u>	Date:	<u>1/18/2015</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>1/18/2015</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>902046803</u>
Lease	<u>YOUNBERG</u>	Job Type:	<u>SURFACE</u>
Well #	<u>RU 41-7</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>6</i>
Potassium (K)	<i>5000</i>	<i>400</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</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
Carbonates hardness		
Temp	<i>40-80</i>	<i>37.7</i> Deg
Total Dissolved Solids		<i>540</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO



<b>Sales Order #:</b> 0902046803	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/19/2015
<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> 05-045-22350-00
<b>Well Name:</b> YOUBERG		<b>Well Number:</b> 0080456565
<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	1/19/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
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	GOOD JOB

<b>CUSTOMER SIGNATURE</b>
---------------------------

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*KEY PERFORMANCE INDICATORS*

General	
<b>Survey Conducted Date</b> The date the survey was conducted	1/19/2015

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.	Deviated
<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>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)	No
<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	96
<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	96
<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