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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**RU 341-5  
RULISON  
Garfield County , Colorado**

**Cement Surface Casing**  
30-Oct-2013

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 3195311	<b>Quote #:</b>	<b>Sales Order #:</b> 900861907
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b>	
<b>Well Name:</b> RU		<b>Well #:</b> 341-5	<b>API/UWI #:</b>
<b>Field:</b> RULISON	<b>City (SAP):</b> RIFLE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Contractor:</b> NABORS		<b>Rig/Platform Name/Num:</b> 576	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> MAYO, MARK		<b>Srvc Supervisor:</b> SMITH, DUSTIN	<b>MBU ID Emp #:</b> 418015

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	4	371353	SMITH, DUSTIN Michael	4	418015	WARDELL, STEVEN John	4	549567

**Equipment**

HES Unit #	Distance-1 way						
10616651C	60 mile	11021972	60 mile	11027039	60 mile	11259881	60 mile
11808827	60 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/30/13	4	2						
<b>TOTAL</b>	<i>Total is the sum of each column separately</i>							

**Job**

**Job Times**

Formation Name	Job			Date	Time	Time Zone	
Formation Depth (MD)	Top	Bottom	Called Out	30 - Oct - 2013	08:30	MST	
Form Type	BHST			On Location	30 - Oct - 2013	13:30	MST
Job depth MD	1094. ft	Job Depth TVD	1094. ft	Job Started	30 - Oct - 2013	15:17	MST
Water Depth	Wk Ht Above Floor			Job Completed	30 - Oct - 2013	16:09	MST
Perforation Depth (MD)	From	To	Departed Loc	30 - Oct - 2013	17:30	MST	

**Well Data**

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	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**

**Stage/Plug #: 1**

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

**Stage/Plug #: 1**

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Fresh Water Spacer		20.00	bbl	8.34	.0	.0	4.0	

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
2	VariCem GJ! Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	8.0	13.75
	13.75 Gal	FRESH WATER							
3	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	8.0	11.75
	11.75 Gal	FRESH WATER							
4	Fresh Water Displacement		82.7	bbl	8.34	.0	.0	10.0	
Calculated Values		Pressures		Volumes					
Displacement	82.7	Shut In: Instant		Lost Returns	0	Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	32	Actual Displacement	82.7	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	230.6
Rates									
Circulating	8.5	Mixing	8	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	43.82 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

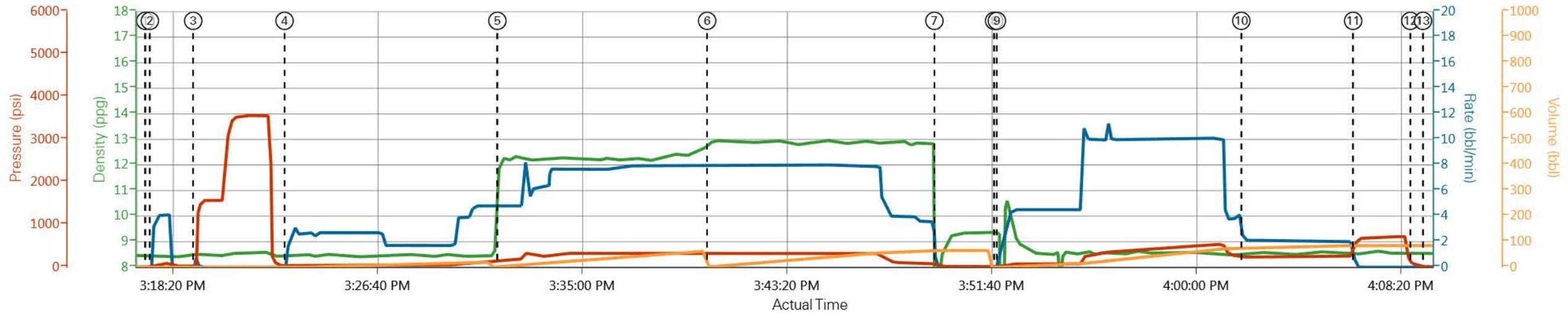
*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 3195311	<b>Quote #:</b>	<b>Sales Order #:</b> 900861907
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b>	
<b>Well Name:</b> RU		<b>Well #:</b> 341-5	<b>API/UWI #:</b>
<b>Field:</b> RULISON	<b>City (SAP):</b> RIFLE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b>		<b>Long:</b>	
<b>Contractor:</b> NABORS		<b>Rig/Platform Name/Num:</b> 576	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> MAYO, MARK		<b>Srvc Supervisor:</b> SMITH, DUSTIN	<b>MBU ID Emp #:</b> 418015

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/30/2013 08:30							ELITE # 4
Depart Yard Safety Meeting	10/30/2013 10:30							ALL HES EMPLOYEES
Arrive At Loc	10/30/2013 13:30							REQUESTED ON LOCATION TIME WAS 1300 CREW ARRIVED ON LOCATION @ 1330 STARTED CHARGING TIME THEN RIG RUNNING CASING
Assessment Of Location Safety Meeting	10/30/2013 13:30							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	10/30/2013 13:30							ALL HES EMPLOYEES
Rig-Up Equipment	10/30/2013 13:40							1 HT-400 PUMP TRUCK ( ELITE # 4 ) 1 660 BULK TRUCK 1 F-550 PICKUP
Pre-Job Safety Meeting	10/30/2013 15:00							ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED FOR 30 MINS PRIOR TO JOB
Start Job	10/30/2013 15:17							TD:1160 TP: 1094 SJ: 43.82 9 5/8 32.3# CSG 13 1/2 OH MUD WT: 10.5 PPG
Test Lines	10/30/2013 15:19					3560.0		PRESSURE TEST OK
Pump Spacer	10/30/2013 15:22		4	20			145.0	FRESH H2O SPACER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Lead Cement	10/30/2013 15:31		8	67.8			320.0	160 SKS 12.3 PPG 2.38 YIELD 13.75 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT LEAD CEMENT
Pump Tail Cement	10/30/2013 15:40		8	60.1			320.0	160 SKS 12.8 PPG 2.11 YIELD 11.75 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT
Shutdown	10/30/2013 15:49							
Drop Plug	10/30/2013 15:51							PLUG AWAY NO PROBLEMS WASHED UP ON TOP OF PLUG AS PER COMPANY REP
Pump Displacement	10/30/2013 15:51		10	82.7			575.0	FRESH WATER DISPLACEMENT
Slow Rate	10/30/2013 16:01		2	72			242.0	SLOW RATE TO BUMP PLUG
Bump Plug	10/30/2013 16:06		2	82.7			721.0	PSI BEFORE BUMPING PLUG @ 260 BUMPED UP TO 721 PSI
Check Floats	10/30/2013 16:08							FLOATS HELD 1/2 BBL BACK TO DISPLACEMENT TANKS
End Job	10/30/2013 16:09							PIPE STATIC THROUGHOUT JOB RETURNED 32 BBLs OF CEMENT TO SURFACE
Comment	10/30/2013 16:10							REMOVED DERRICK CHARGE, ADD HOURS AND SUGAR FROM THE TICKET
Pre-Rig Down Safety Meeting	10/30/2013 16:15							ALL HES EMPLOYEES
Rig-Down Equipment	10/30/2013 16:20							
Pre-Convoy Safety Meeting	10/30/2013 17:20							ALL HES EMPLOYEES
Crew Leave Location	10/30/2013 17:30							THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

# WPX - RU 341-5 - 9 5/8 SURFACE



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

- ① Start Job 8.44;0;6;0    ④ Pump Spacer 18.48;1.7;24;2.9    ⑦ Shutdown 0.61;0;40;65.2    ⑩ Slow Rate 8.48;2.2;241;75.5    ⑬ End Job 8.55;0;13;84.7
- ② Fill Lines 8.41;1.7;7;0.1    ⑤ Pump Lead Cement 12.07;4.8;175;2    ⑧ Drop Top Plug 9.36;0;14;0    ⑪ Bump Plug 8.53;0;598;84.7
- ③ Test Lines 8.5;0.4;29;2.8    ⑥ Pump Tail Cement 12.88;7.9;312;1.5    ⑨ Pump Displacement 9.32;0.9;15;0    ⑫ Check Floats 8.52;0;63;84.7

▼ **HALLIBURTON** | iCem® Service

Created: 2013-10-30 13:38:34, Version: 2.0.606

[Edit](#)

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 10/30/2013 2:48:53 PM

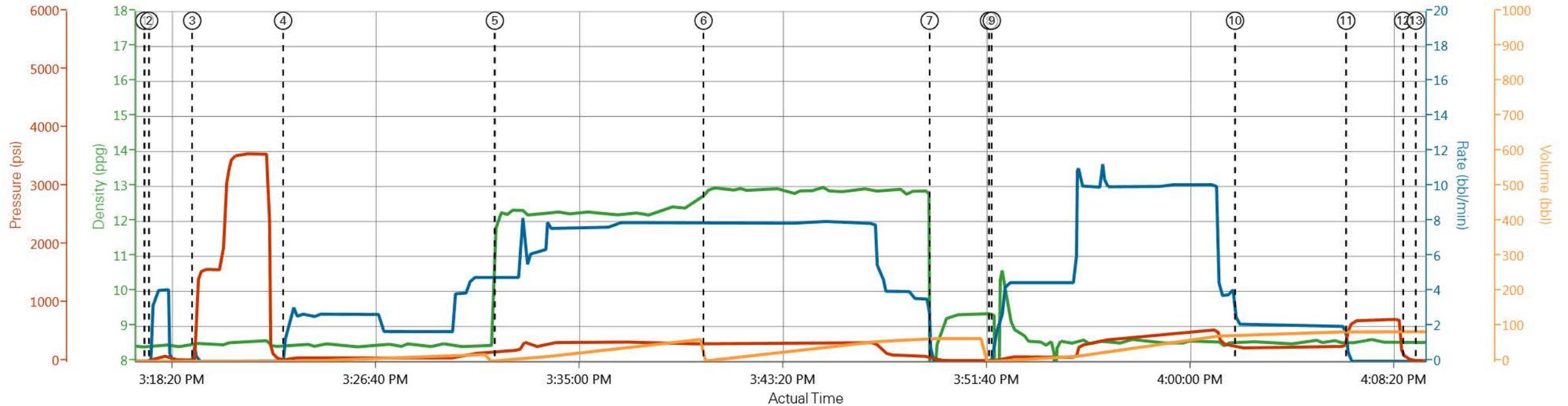
Well: RU 341-5

Representative: AL HARTL

Sales Order #: 900861907

ELITE # 4: DUSTIN SMITH / BRENT BANKS

# WPX - RU 341-5 - 9 5/8 SURFACE



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

- ① Start Job 8.44;0;6;0     ④ Pump Spacer 18.48;1.7;24;2.9     ⑦ Shutdown 0.61;0;40;65.2     ⑩ Slow Rate 8.48;2.2;241;75.5     ⑬ End Job 8.55;0;13;84.7
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# HALLIBURTON

## Water Analysis Report

Company: WPX

Date: 10/30/2013

Submitted by: DUSTIN SMITH

Date Rec.: 10/30/2013

Attention: \_\_\_\_\_

S.O.# 900861907

Lease RU

Job Type: SURFACE

Well # 341-5

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7.5</b>
Potassium (K)	<i>5000</i>	<b>200 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>0 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-90</i>	<b>47 Deg</b>
Total Dissolved Solids		<b>360 Mg / L</b>

Respectfully: DUSTIN SMITH

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 its

<b>Sales Order #:</b> 900861907	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/30/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL HARTL		<b>API / UWI: (leave blank if unknown)</b> AFEY0ALZBKKQL3VMAAA
<b>Well Name:</b> RU		<b>Well Number:</b> 341-5
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<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	10/30/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	DUSTIN SMITH (HX37079)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL HARTL
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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<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL HARTL		<b>API / UWI: (leave blank if unknown)</b> AFEY0ALZBKKQL3VMAAA
<b>Well Name:</b> RU		<b>Well Number:</b> 341-5
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	10/30/2013
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>	2
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>Operating Hours (Pumping Hours)</b>	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	0
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>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>	6
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>Customer Representative:</b> AL HARTL		<b>API / UWI: (leave blank if unknown)</b> AFEY0ALZBKKQL3VMAAA
<b>Well Name:</b> RU		<b>Well Number:</b> 341-5
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<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	90
<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	90
<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