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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**RU 22-5  
Rulison  
Garfield County , Colorado**

**Cement Surface Casing  
05-Sep-2013**

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 3098786	<b>Quote #:</b>	<b>Sales Order #:</b> 900703594
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> Hartl, Al	
<b>Well Name:</b> RU		<b>Well #:</b> 22-5	<b>API/UWI #:</b> 05-045-21794
<b>Field:</b> Rulison	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.475 deg. OR N 39 deg. 28 min. 28.823 secs.		<b>Long:</b> W 107.799 deg. OR W -108 deg. 12 min. 4.424 secs.	
<b>Contractor:</b> NABORS 574		<b>Rig/Platform Name/Num:</b> NABORS 574	
<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> YOUNG, JEREMY	<b>MBU ID Emp #:</b> 418013

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, ADAM S	5	456683	EICKHOFF, ROBERT Edward	5	495311	YOUNG, JEREMY R	5	418013

**Equipment**

HES Unit #	Distance-1 way						
10296152C	60 mile	10744549	60 mile	10995027	60 mile	11583932	60 mile
11808849	60 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
09/04/2013	3	1	09/05/2013	2	2			

**TOTAL** Total is the sum of each column separately

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Formation Depth (MD)</b>			<b>On Location</b>	04 - Sep - 2013	18:00	MST
<b>Form Type</b>		BHST	<b>Job Started</b>	04 - Sep - 2013	21:00	MST
<b>Job depth MD</b>	1118.3 ft	<b>Job Depth TVD</b>	1118.3 ft	<b>Job Completed</b>	05 - Sep - 2013	00:38
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	3. ft	<b>Departed Loc</b>	05 - Sep - 2013	02:00
<b>Perforation Depth (MD)</b>	<i>From</i>	<i>To</i>				

**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
13 1/2" OPEN HOLE				13.5				.	1130.		
9 5/8" 32.3# SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1118.3		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					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**

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/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 lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer	FRESH WATER	20.00	bbl	8.33	.0	.0	4	
2	VariCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	8	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	6	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement	FRESH WATER	84.50	bbl	8.33	.0	.0	10	
Calculated Values		Pressures			Volumes				
Displacement	84.5	Shut In: Instant		Lost Returns	NO	Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement	84.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	232.4
Rates									
Circulating		Mixing	8	Displacement	10	Avg. Job	8.5		
Cement Left In Pipe	Amount	43.8 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*

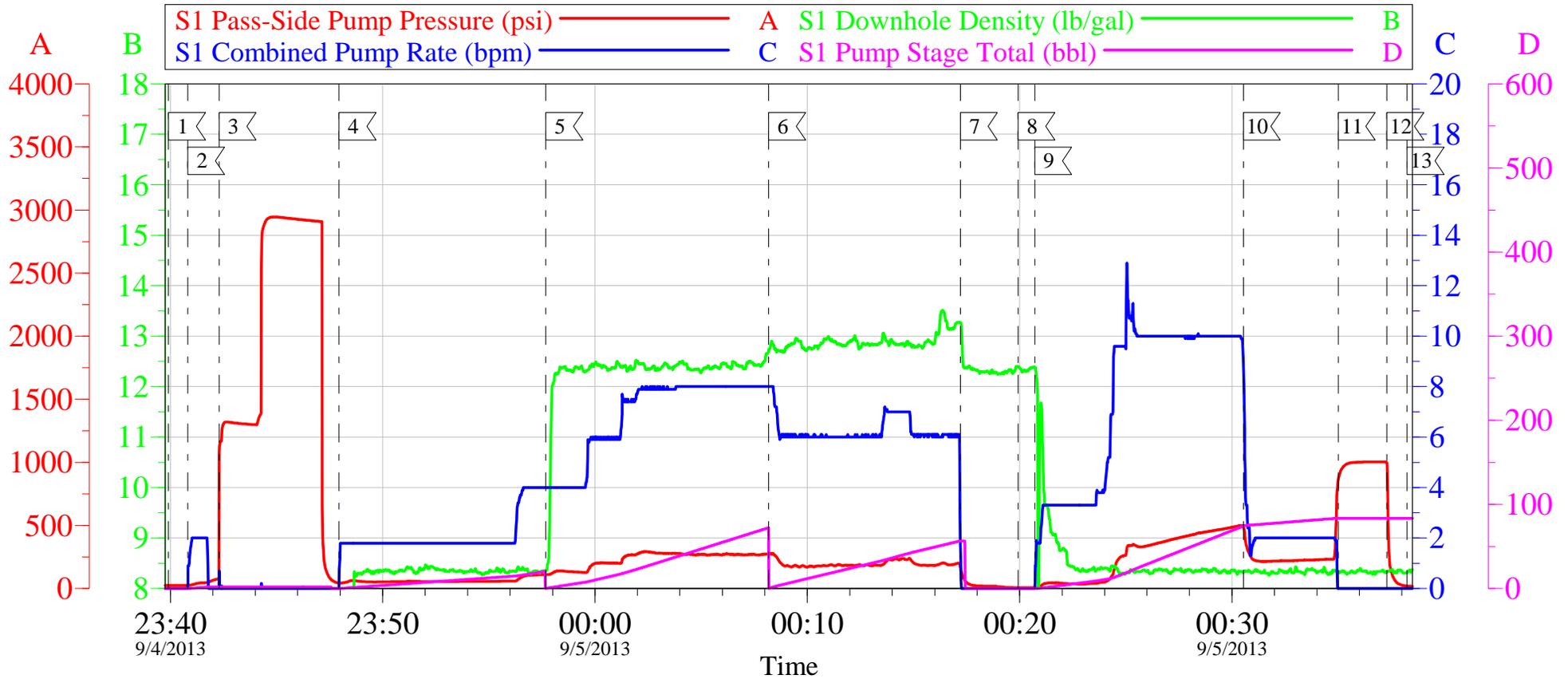
<b>Sold To #:</b> 300721	<b>Ship To #:</b> 3098786	<b>Quote #:</b>	<b>Sales Order #:</b> 900703594
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> Hartl, Al	
<b>Well Name:</b> RU		<b>Well #:</b> 22-5	<b>API/UWI #:</b> 05-045-21794
<b>Field:</b> Rulison	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.475 deg. OR N 39 deg. 28 min. 28.823 secs.		<b>Long:</b> W 107.799 deg. OR W -108 deg. 12 min. 4.424 secs.	
<b>Contractor:</b> NABORS 574		<b>Rig/Platform Name/Num:</b> NABORS 574	
<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> YOUNG, JEREMY	<b>MBU ID Emp #:</b> 418013

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/04/2013 16:00							
Pre-Convoy Safety Meeting	09/04/2013 18:50							WITH ALL HES PERSONNEL
Crew Leave Yard	09/04/2013 19:00							
Arrive At Loc	09/04/2013 21:00							RIG WAS RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	09/04/2013 22:00							WITH ALL HES PERSONNEL
Other	09/04/2013 22:10							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	09/04/2013 22:20							WITH ALL HES PERSONNEL
Rig-Up Equipment	09/04/2013 22:30							
Pre-Job Safety Meeting	09/04/2013 23:20							WITH ALL PERSONNEL ON LOCATION
Start Job	09/04/2013 23:39							TD 1130 FT, TP 1118.03 FT, SHOE 43.8 FT, HOLE 13 1/2 IN, MUD WT 9.4 PPG WBM, CSG 9 5/8 IN 32.3 LB/FT H-40
Other	09/04/2013 23:40		2	2			46.0	FILL LINES WITH FRESH WATER
Test Lines	09/04/2013 23:42							TEST LINES TO 2900 PSI. PRESSURE HOLDING
Pump Spacer 1	09/04/2013 23:47		4	20			100.0	FRESH WATER
Pump Lead Cement	09/04/2013 23:57		8	67.8			290.0	160 SKS AT 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	09/05/2013 00:08		6	60.1			180.0	160 SKS AT 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Shutdown	09/05/2013 00:17							
Drop Top Plug	09/05/2013 00:19							PLUG LAUNCHED
Pump Displacement	09/05/2013 00:20		10	74.5			500.0	FRESH WATER
Slow Rate	09/05/2013 00:30		2	10			230.0	SLOW RATE 10 BBL PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	09/05/2013 00:35		2		84.5		1000.0	PLUG BUMPED
Check Floats	09/05/2013 00:37							FLOATS HOLDING. RETURNED 0.75 BBL H2O TO TRUCK
End Job	09/05/2013 00:38							PIPE WAS STATIC DURING JOB. GOOD CIRCULATION THROUGHOUT JOB. HES RETURNED 25 BBL CEMENT TO SURFACE. USED 40 LB SUGAR IN CEMENT RETURNS
Pre-Rig Down Safety Meeting	09/05/2013 00:45							WITH ALL HES PERSONNEL
Rig-Down Equipment	09/05/2013 00:50							
Pre-Convoy Safety Meeting	09/05/2013 01:50							WITH ALL HES PERSONNEL
Crew Leave Location	09/05/2013 02:00							
Comment	09/05/2013 02:01							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JEREMY YOUNG AND CREW

# WPX - RU 22-5

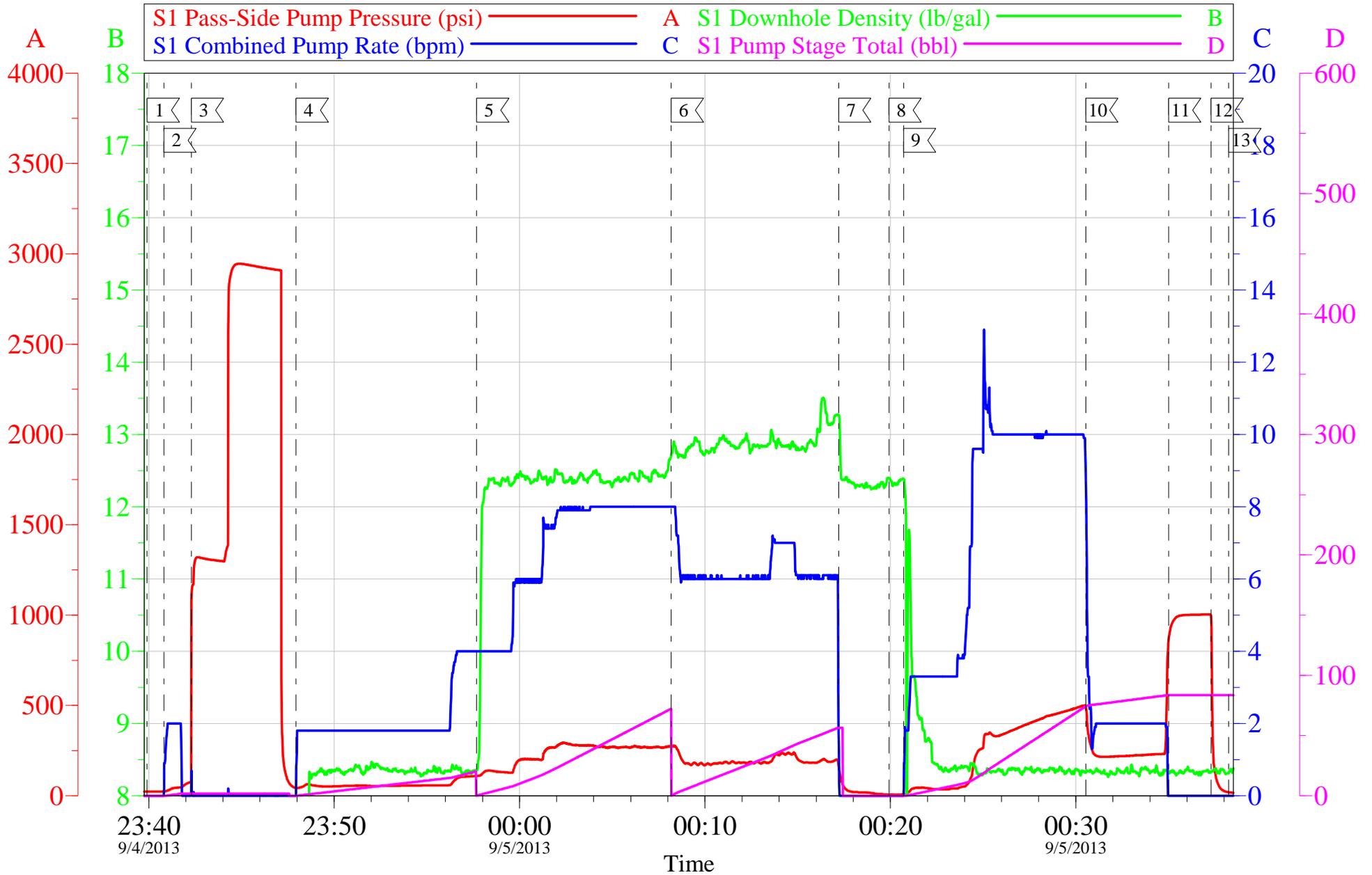
## 9 5/8 SURFACE



Local Event Log			
1	START JOB	9/4/2013 23:39:55	2 FILL LINES 9/4/2013 23:40:49
3	TEST LINES	9/4/2013 23:42:18	4 PUMP H2O SPACER 9/4/2013 23:47:57
5	PUMP LEAD CEMENT	9/4/2013 23:57:41	6 PUMP TAIL CEMENT 9/5/2013 00:08:11
7	SHUTDOWN	9/5/2013 00:17:13	8 DROP TOP PLUG 9/5/2013 00:19:55
9	PUMP DISPLACEMENT	9/5/2013 00:20:43	10 SLOW RATE 9/5/2013 00:30:32
11	BUMP PLUG	9/5/2013 00:35:00	12 CHECK FLOATS 9/5/2013 00:37:18
13	END JOB	9/5/2013 00:38:15	

Customer: WPX	Job Date: 04-Sep-2013	Sales Order #: 900703594
Well Description: RU 22-5	Job Type: SURFACE	ADC Used: YES
Customer Rep: AL HARTL	Cement Supervisor: JEREMY YOUNG	Elite #9: ROB EICKHOFF

# WPX - RU 22-5 9 5/8 SURFACE



Customer: WPX	Job Date: 04-Sep-2013	Sales Order #: 900703594
Well Description: RU 22-5	Job Type: SURFACE	ADC Used: YES
Customer Rep: AL HARTL	Cement Supervisor: JEREMY YOUNG	Elite #9: ROB EICKHOFF

# HALLIBURTON

## Water Analysis Report

Company: WPX

Date: 9/4/2013

Submitted by: JEREMY YOUNG

Date Rec.: \_\_\_\_\_

Attention: LAB

S.O.# 900703594

Lease RU

Job Type: SURFACE

Well # 22-5

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>0 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>120 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>40-80</i>	<b>68 Deg</b>
Total Dissolved Solids		<b>50 Mg / L</b>

Respectfully: JEREMY YOUNG

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> 900703594	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/5/2013
<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> 05-045-21794
<b>Well Name:</b> RU		<b>Well Number:</b> 22-5
<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	9/5/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JEREMY YOUNG (HX37077)
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>Well Name:</b> RU		<b>Well Number:</b> 22-5
<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>	9/5/2013
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>	3
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>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