

---

# **WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

---

**PA 313-4  
PARACHUTE  
Garfield County , Colorado**

**Cement Surface Casing**  
**19-Jan-2013**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2971840	Quote #:	Sales Order #: 900103775
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Towers, Ron		
Well Name: PA	Well #: 313-4	API/UWI #: 05-045-20085	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.464 deg. OR N 39 deg. 27 min. 48.665 secs.	Long: W 108.007 deg. OR W -109 deg. 59 min. 35.016 secs.		
Contractor: NABORS 577	Rig/Platform Name/Num: NABORS 577		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRENNECKE, ANDREW Bailey	3.0	486345	BURKE, BRENDAN Patrick	2.0	487782	CASTILLO, FRANCISCO P	3.0	513620
KAMMEIER, CHRISTOPHER Michael	2.0	524554	SMITH, CHRISTOPHER Scott	3.0	452619	WOLFE, JON P	3.0	485217

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867531	60 mile	10871245	60 mile	10989685	60 mile	11259885	60 mile
11808831	60 mile						

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
01.19.2013	5	1.5						

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

## Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To	Called Out	On Location	Job Started	Job Completed	Departed Loc
				BHST	728. ft	728. ft					19 - Jan - 2013	19 - Jan - 2013	19 - Jan - 2013	19 - Jan - 2013	19 - Jan - 2013

## 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
-------------	------------	-------------------	---------	-------	---------------	--------	-------	-----------	--------------	------------	---------------

Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		

## 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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		20.00	bbl	8.33	.0	.0	4.0	
2	Tail Cement	VERSACEM (TM) SYSTEM (452010)	225.0	sacks	12.8	2.11	11.75	8.0	11.75
3	Displacement		54.00	bbl	8.33	.0	.0	10.0	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	54	Shut In: Instant		Lost Returns		Cement Slurry	84	Pad	
Top Of Cement	0	5 Min		Cement Returns	18	Actual Displacement	54	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	160
<b>Rates</b>									
Circulating	10	Mixing	8	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	36 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*

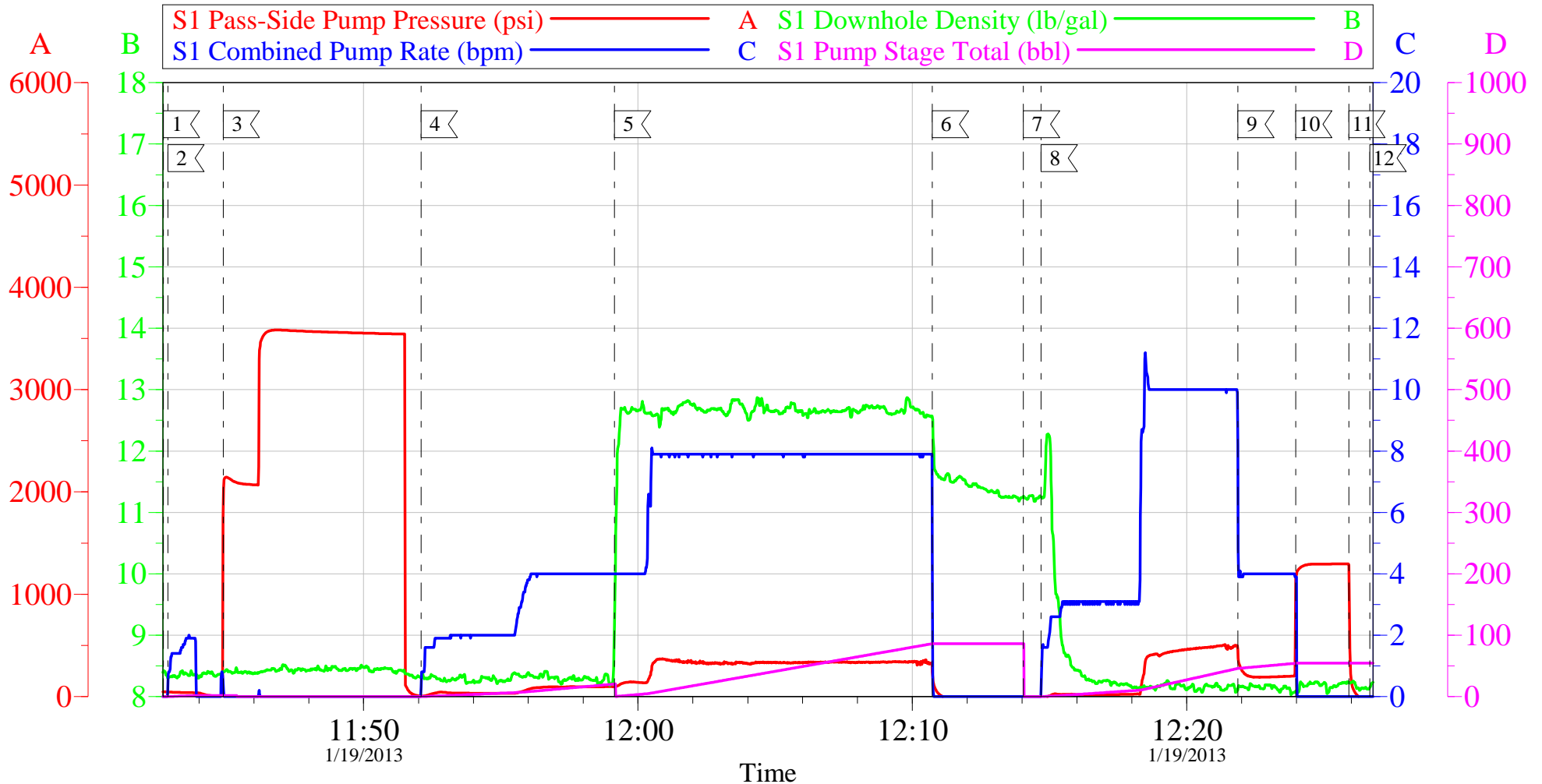
<b>Sold To #:</b> 300721		<b>Ship To #:</b> 2971840		<b>Quote #:</b>		<b>Sales Order #:</b> 900103775	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Towers, Ron			
<b>Well Name:</b> PA			<b>Well #:</b> 313-4			<b>API/UWI #:</b> 05-045-20085	
<b>Field:</b> PARACHUTE		<b>City (SAP):</b> PARACHUTE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Legal Description:</b>							
<b>Lat:</b> N 39.464 deg. OR N 39 deg. 27 min. 48.665 secs.				<b>Long:</b> W 108.007 deg. OR W -109 deg. 59 min. 35.016 secs.			
<b>Contractor:</b> NABORS 577			<b>Rig/Platform Name/Num:</b> NABORS 577				
<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, CHRISTOPHER			<b>MBU ID Emp #:</b> 452619	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/19/2013 05:00							TD 740 FT, TP 728 FT, SHOE 36 FT, CSG 9 5/8 IN 32.3 LB/FT, HOLE 13 1/2 IN, MUD WT 9.3 PPG
Pre-Convoy Safety Meeting	01/19/2013 07:20							WITH ALL HES PERSONNEL
Crew Leave Yard	01/19/2013 07:30							
Arrive At Loc	01/19/2013 08:30							RIG WAS RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	01/19/2013 08:45							WITH ALL HES PERSONNEL
Other	01/19/2013 09:00							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	01/19/2013 09:15							WITH ALL HES PERSONNEL
Rig-Up Equipment	01/19/2013 09:20							
Pre-Job Safety Meeting	01/19/2013 11:15							WITH ALL PERSONNEL ON LOCATION
Start Job	01/19/2013 11:42							
Other	01/19/2013 11:42		2	2			36.0	FILL LINES WITH FRESH WATER
Test Lines	01/19/2013 11:44		0.5	0.5				ALL LINES HELD PRESSURE @ 3580 PSI
Pump Spacer 1	01/19/2013 11:52		4	20			136.0	FRESH WATER
Pump Tail Cement	01/19/2013 11:59		8	84.6			350.0	225 SKS AT 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	01/19/2013 12:10							WASH UP ON TOP OF PLUG.
Pump Displacement	01/19/2013 12:14		10	44.5			480.0	FRESH WATER
Drop Top Plug	01/19/2013 12:14							PLUG LAUNCHED, COMP REP VERIFIED.
Slow Rate	01/19/2013 12:21		2	10			200.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	01/19/2013 12:23				54.5		1100.0	PLUG BUMPED, BUMPED PLUG 1000 PSI OVER.
Check Floats	01/19/2013 12:25							FLOATS HOLDING. 1 BBL BACK TO PUMP.
End Job	01/19/2013 12:26							
Pre-Rig Down Safety Meeting	01/19/2013 12:30							WITH ALL HES PERSONNEL
Rig-Down Equipment	01/19/2013 12:55							
Pre-Convoy Safety Meeting	01/19/2013 13:25							WITH ALL HES PERSONNEL
Crew Leave Location	01/19/2013 13:40							
Comment	01/19/2013 13:41							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. CHRIS SMITH AND CREW.

# WPX - PA 313-4

9.625" SURFACE



Customer: WPX  
Well Description: PA 313-4  
Company Rep: R.TOWERS

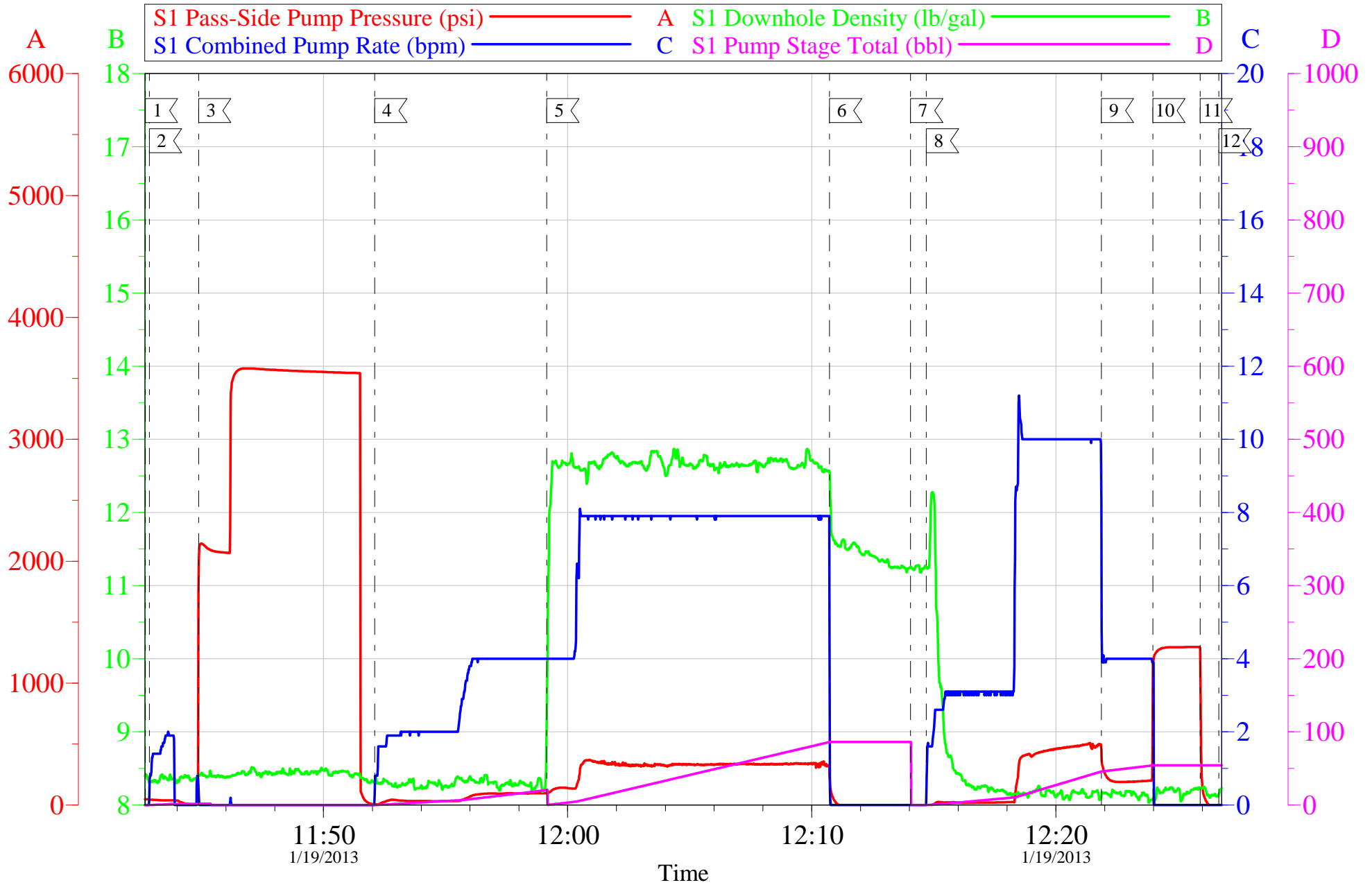
Job Date: 19-Jan-2013  
Job Type: SURFACE  
Cement Supervisor: C.SMITH

Sales Order #: 900103775  
ADC Used: YES  
Elite #8: A.BRENNECKE

OptiCem v6.4.10  
19-Jan-13 13:03

# WPX - PA 313-4

9.625" SURFACE



Customer: WPX  
Well Description: PA 313-4  
Company Rep: R.TOWERS

Job Date: 19-Jan-2013  
Job Type: SURFACE  
Cement Supervisor: C.SMITH

Sales Order #: 900103775  
ADC Used: YES  
Elite #8: A.BRENNECKE

OptiCem v6.4.10  
19-Jan-13 13:03

# HALLIBURTON

## Water Analysis Report

Company: WILLIAMS PRODUCTION

Submitted by: JESSE SLAUGHTER

Attention: LAB

Lease PA

Well # 313-4

Date: 1/19/2013

Date Rec.:

S.O.# 900103775

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6</b>
Potassium (K)	<i>5000</i>	<b>250</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>UNDER 200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>60</b> Deg
Total Dissolved Solids		<b>200</b> Mg / L

Respectfully: JESSE SLAUGHTER

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> 900103775	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/19/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RON TOWERS		<b>API / UWI: (leave blank if unknown)</b> 05-045-20085
<b>Well Name:</b> PA		<b>Well Number:</b> 313-4
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<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	1/19/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RON TOWERS
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>
---------------------------

<b>Sales Order #:</b> 900103775	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/19/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RON TOWERS		<b>API / UWI: (leave blank if unknown)</b> 05-045-20085
<b>Well Name:</b> PA		<b>Well Number:</b> 313-4
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

*KEY PERFORMANCE INDICATORS*

General	
<b>Survey Conducted Date</b> The date the survey was conducted	1/19/2013

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.	2
<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>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<b>Customer Non-Productive Rig Time (hrs)</b> 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.	0
<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	7
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 900103775	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/19/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RON TOWERS		<b>API / UWI: (leave blank if unknown)</b> 05-045-20085
<b>Well Name:</b> PA		<b>Well Number:</b> 313-4
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<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	95
<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	99
<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