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

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**SG 44-23  
GRAND VALLEY  
Garfield County , Colorado**

## **Cement Surface Casing** **10-Jan-2013**

### **Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2973723	Quote #:	Sales Order #: 900128594
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Duniho, Al		
Well Name: SG	Well #: 44-23	API/UWI #: 05-045-21686	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.419 deg. OR N 39 deg. 25 min. 8.461 secs.	Long: W 108.07 deg. OR W -109 deg. 55 min. 46.38 secs.		
Contractor: CYCLONE 17	Rig/Platform Name/Num: CYCLONE 17		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srvc Supervisor: CHASTAIN, DERICK	MBU ID Emp #: 455848	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	8	371353	CHASTAIN, DERICK Allan	8	455848	LINN, PAUL Andrew	8	479143
SIMINEO, JEROD M	8	479954						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867322	60 mile	10871245	60 mile	10951251	60 mile	10998512	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
1/10/2013	8	2						

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

## Job

## Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	10 - Jan - 2013	09:30	MST
Job depth MD	1092. ft		Job Depth TVD	Job Started	10 - Jan - 2013	13:00	MST
Water Depth			Wk Ht Above Floor	Job Completed	10 - Jan - 2013	20:09	MST
Perforation Depth (MD)	From	To		Job Completed	10 - Jan - 2013	21:01	MST
				Departed Loc	10 - Jan - 2013	22:00	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
OPEN HOLE				13.5				.	1092.		
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1076.		

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 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
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	4	
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.3	2.38	13.75	8	13.75
13.75 Gal		FRESH WATER							
3	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement		82.00	bbl	.	.0	.0	10	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	81.1	Shut In: Instant		Lost Returns		Cement Slurry	128	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	81.1	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	231
<b>Rates</b>									
Circulating	10	Mixing	8	Displacement	10	Avg. Job	7		
Cement Left In Pipe	Amount	46 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*

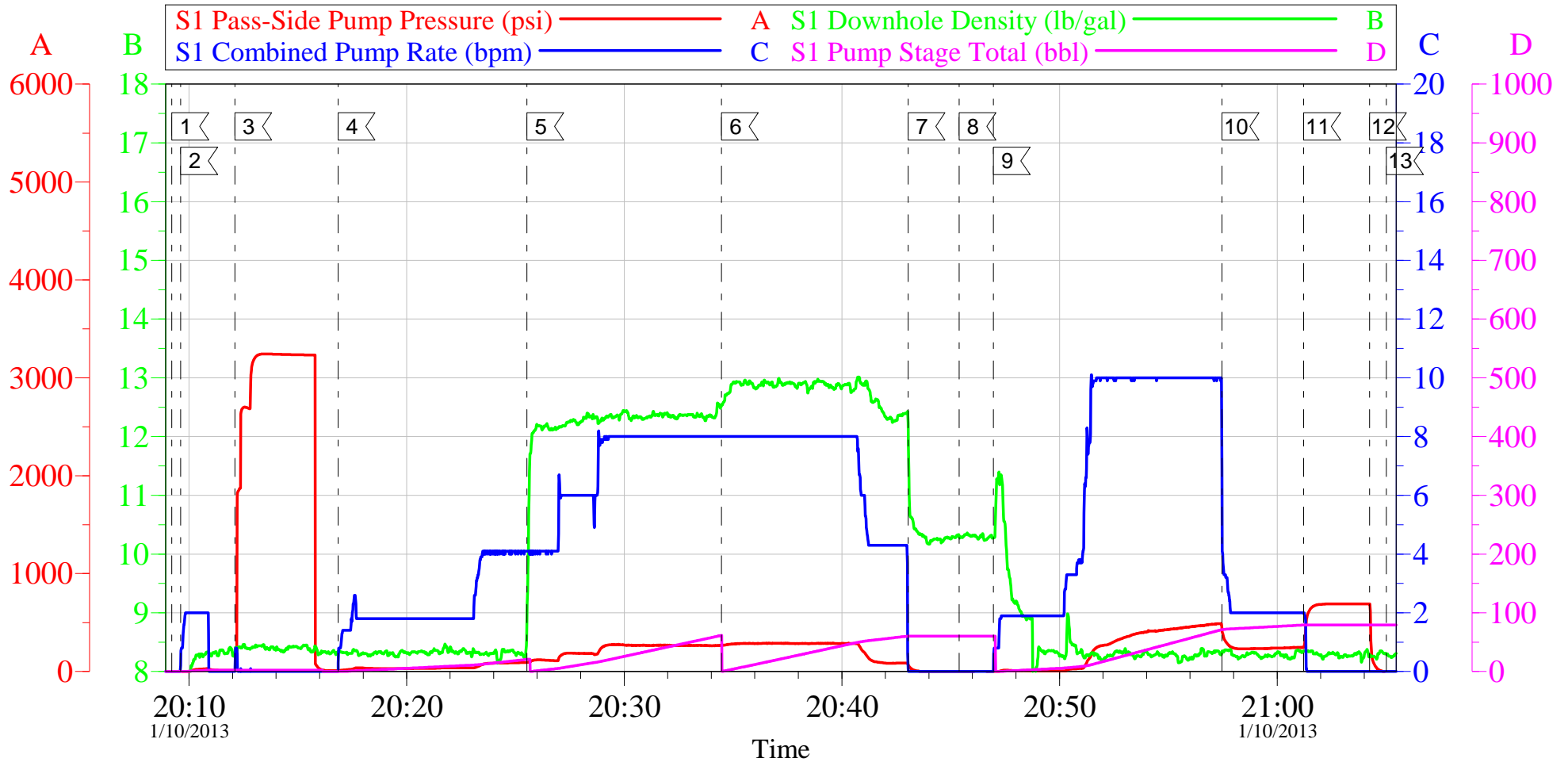
<b>Sold To #:</b> 300721		<b>Ship To #:</b> 2973723		<b>Quote #:</b>		<b>Sales Order #:</b> 900128594	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Dunihoo, Al			
<b>Well Name:</b> SG			<b>Well #:</b> 44-23			<b>API/UWI #:</b> 05-045-21686	
<b>Field:</b> GRAND VALLEY		<b>City (SAP):</b> PARACHUTE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Legal Description:</b>							
<b>Lat:</b> N 39.419 deg. OR N 39 deg. 25 min. 8.461 secs.				<b>Long:</b> W 108.07 deg. OR W -109 deg. 55 min. 46.38 secs.			
<b>Contractor:</b> CYCLONE 17			<b>Rig/Platform Name/Num:</b> CYCLONE 17				
<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> CHASTAIN, DERICK			<b>MBU ID Emp #:</b> 455848	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/10/2013 09:30							DISPATCH CALLS OUT CREW
Pre-Convoy Safety Meeting	01/10/2013 11:50							WITH ALL HES PERSONNEL
Arrive at Location from Service Center	01/10/2013 13:00							RIG PULLING DRILL PIPE
Assessment Of Location Safety Meeting	01/10/2013 13:30							WITH ALL HES PERSONNEL
Circulate Well	01/10/2013 19:00							CASING ON BOTTOM, RIG CIRCULATES USING HES PLUG CONTAINER, CIRC. 1 HR, 16 BPM, 500 PSI. MUD REPORT 10.3 PPG PV 36, YP 30.
Pre-Rig Up Safety Meeting	01/10/2013 19:20							WITH ALL HES PERSONNEL
Rig-Up Equipment	01/10/2013 19:30							1 ELITE HT 400 PUMP, 1 660 BULK TRUCK, 1 F-450 PICK-UP, 1 PLUG CONTAINER, 2" IRON TO STAND PIPE
Pre-Job Safety Meeting	01/10/2013 19:45							WITH ALL HES PERSONNEL, RIG CREW AND CO REP
Start Job	01/10/2013 20:09							TD 1092', TP 1076', FC 1030', SJ 46', OH 13.5", SURFACE CASING 9.625" 32.3# H-40.
Pump Water	01/10/2013 20:09		2	2			58.0	FILL LINES
Test Lines	01/10/2013 20:12							TESTED TO 3260 PSI. HELD PSI 2 MIN, NO LEAKS
Pump Spacer 1	01/10/2013 20:16		4	20			84.0	FRESH H2O

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	01/10/2013 20:25		8	67.8			268.0	160 SKS 12.3 PPG 2.38 FT3/SK 13.75 GAL/SK. WET AND DRY SAMPLES SUBMITTED
Pump Tail Cement	01/10/2013 20:34		8	60.1			283.0	160 SKS 12.8 PPG 2.11 FT3/SK 11.75 GAL/SK. WET AND DRY SAMPLES SUBMITTED.
Shutdown	01/10/2013 20:43							WASH UP ON TOP OF PLUG
Drop Top Plug	01/10/2013 20:45							VERIFY PLUG LAUNCHED
Pump Displacement	01/10/2013 20:46		10	81.1			490.0	CMT RETURNS 51 BBLS INTO DIS, 30 BBLS TO SURFACE
Slow Rate	01/10/2013 20:57		4	71			240.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	01/10/2013 21:01		4	81.1			691.0	BUMP PLUG HOLD 2 MINS
Check Floats	01/10/2013 21:04							FLOATS HOLDING, GOOD RETURNS THROUGHOUT JOB
End Job	01/10/2013 21:05							NO ADD HOURS OR DERRICK CHARGE. 80 LBS SUGAR USED
Pre-Rig Down Safety Meeting	01/10/2013 21:15							WITH ALL HES PERSONNEL
Rig-Down Equipment	01/10/2013 21:20							
Pre-Convoy Safety Meeting	01/10/2013 21:50							WITH ALL HES PERSONNEL
Crew Leave Location	01/10/2013 22:00							LEFT LOCATION FREE OF DEBRESS
Comment	01/10/2013 22:00							THANK YOU FOR CHOOSING HALLIBURTON. DERICK CHASTAIN AND CREW

# WPX ENERGY - SG 44-23

9 5/8" SURFACE CASING



## Local Event Log

1 START JOB	20:09:13	2 FILL LINES	20:09:37	3 TEST LINES	20:12:06
4 PUMP H2O SPACER	20:16:51	5 PUMP LEAD CEMENT	20:25:32	6 PUMP TAIL CEMENT	20:34:28
7 SHUTDOWN	20:43:03	8 DROP TOP PLUG	20:45:23	9 PUMP DISPLACEMENT	20:46:57
10 SLOW RATE	20:57:28	11 BUMP PLUG	21:01:13	12 CHECK FLOATS	21:04:15
13 END JOB	21:05:01				

Customer: WPX  
Well Description: SG 44-23  
Company Rep: AL DUNIHO

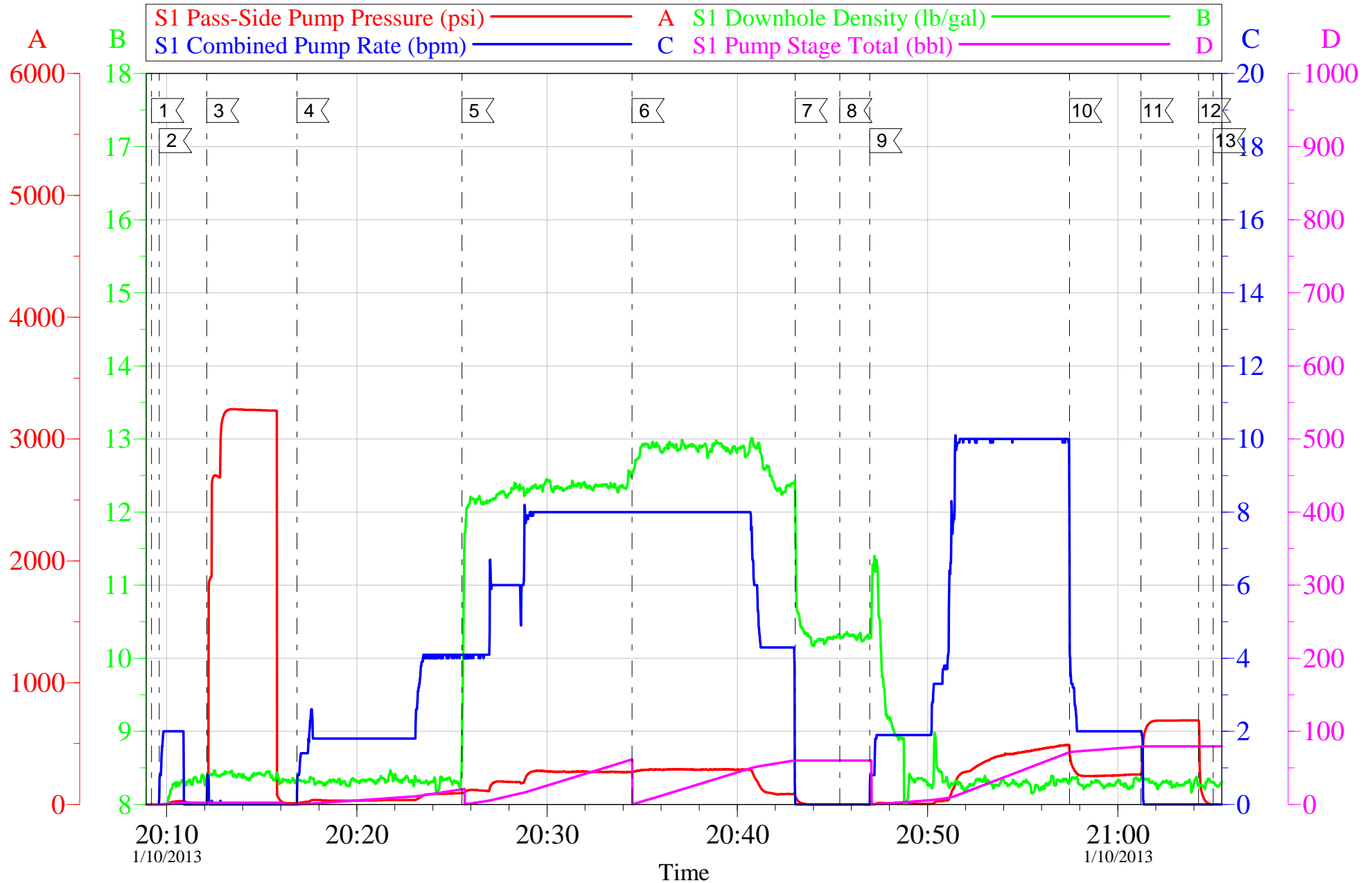
Job Date: 10-Jan-2013  
Job Type: SURFACE  
Cement Supervisor: DERICK CHASTAIN

Sales Order #: 900128594  
ADC Used: YES  
Elite #: ANDREW LINN

OptiCem v6.4.21  
10-Jan-13 21:22

# WPX ENERGY - SG 44-23

9 5/8" SURFACE CASING



Customer: WPX	Job Date: 10-Jan-2013	Sales Order #: 900128594
Well Description: SG 44-23	Job Type: SURFACE	ADC Used: YES
Company Rep: AL DUNIHO	Cement Supervisor: DERICK CHASTAIN	Elite #: ANDREW LINN

OptiCem v6.4.21  
10-Jan-13 21:21

# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: DERICK CHASTAIN

Attention: J. Trout

Lease SG

Well # 44-23

Date: 1/10/2013

Date Rec.: 1/10/2013

S.O.# 900128594

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</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
Chlorine (Cl <sub>2</sub> )		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>40</i> Deg
Total Dissolved Solids		<i>110</i> Mg / L

Respectfully: DERICK CHASTAIN

x 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



<b>Sales Order #:</b> 900128594	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/10/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> 05-045-21686
<b>Well Name:</b> SG		<b>Well Number:</b> 44-23
<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	1/10/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	DERICK CHASTAIN (HB23225)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL DUNIHO
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 MEN!

<b>CUSTOMER SIGNATURE</b>
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<b>Sales Order #:</b> 900128594	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/10/2013
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<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	1/10/2013

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	8
<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> 900128594	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/10/2013
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<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> 05-045-21686
<b>Well Name:</b> SG		<b>Well Number:</b> 44-23
<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