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

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**SG 13-27**

**Garfield County , Colorado**

## **Cement Surface Casing**

**07-May-2012**

### **Post Job Summary**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2925182	Quote #:	Sales Order #: 9488065
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Duniho, Al		
Well Name: SG	Well #: 13-27	API/UWI #:	
Field:	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Contractor: NABORS 573	Rig/Platform Name/Num: NABORS 573		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srv Supervisor: SLAUGHTER, JESSE	MBU ID Emp #: 454315	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BATH, KYLE Thomas	7.5	477632	BECK, MICHAEL George	7.5	489151	DOUT, JACOB J	7.5	430298
GOWEN, WESLEY M	7.5	496205	SLAUGHTER, JESSE Dean	7.5	454315			

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248065	60 mile	10616651C	60 mile	10784064	60 mile	11006314	60 mile
11583931	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
5-6-2012	1	0	5-7-2012	6.5	2.5			

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD)	Top		Bottom	Called Out	06 - May - 2012	20:30	MST
Form Type	BHST			On Location	06 - May - 2012	22:00	MST
Job depth MD	1565. ft	Job Depth TVD	1565. ft	Job Started	07 - May - 2012	04:16	MST
Water Depth		Wk Ht Above Floor	7. ft	Job Completed	07 - May - 2012	05:25	MST
Perforation Depth (MD)	From		To	Departed Loc	07 - May - 2012	06:30	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
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Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
R/A DENSOMETER W/CHART RECORDER, /JOB, ZI	1	JOB		
ADC (AUTO DENSITY CTRL) SYS, /JOB, ZI	1	JOB		
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	Fresh Water Spacer	FRESH WATER	20.00	bbl	8.33	.0	.0	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	255.0	sacks	12.3	2.38	13.75	7.5	13.75
	13.75 Gal	FRESH WATER							
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	7.5	11.75
	11.75 Gal	FRESH WATER							
4	Fresh Water Displacement	FRESH WATER	120.9	bbl	8.33	.0	.0	10	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	120.9	Shut In: Instant		Lost Returns	NO	Cement Slurry	168	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	120.9	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	309
<b>Rates</b>									
Circulating		Mixing	7.5	Displacement	10	Avg. Job			8
Cement Left In Pipe	Amount	0 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> 2925182		<b>Quote #:</b>		<b>Sales Order #:</b> 9488065	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Dunihoo, Al			
<b>Well Name:</b> SG			<b>Well #:</b> 13-27			<b>API/UWI #:</b>	
<b>Field:</b>		<b>City (SAP):</b> SILT		<b>County/Parish:</b> Garfield			<b>State:</b> Colorado
<b>Legal Description:</b>							
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.				<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 secs.			
<b>Contractor:</b> NABORS 573			<b>Rig/Platform Name/Num:</b> NABORS 573				
<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> SLAUGHTER, JESSE			<b>MBU ID Emp #:</b> 454315	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/06/2012 20:30							TD1580 FT, TP 1565 FT, SHOE 28.9 FT, CSG 9 5/8 IN 32.3 LB/FT, HOLE 13 1/2 IN, MUD WT 10.5 PPG
Pre-Convoy Safety Meeting	05/06/2012 20:50							WITH ALL HES PERSONNEL
Crew Leave Yard	05/06/2012 21:00							
Arrive At Loc	05/06/2012 22:00							RIG WAS PULLING DRILL PIPE UPON HES ARRIVAL
Assessment Of Location Safety Meeting	05/07/2012 02:30							WITH ALL HES PERSONNEL
Other	05/07/2012 02:40							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	05/07/2012 02:50							WITH ALL HES PERSONNEL
Rig-Up Equipment	05/07/2012 03:00							
Pre-Job Safety Meeting	05/07/2012 04:05							WITH ALL PERSONNEL ON LOCATION
Start Job	05/07/2012 04:16							
Other	05/07/2012 04:16		2	2			45.0	FILL LINES WITH FRESH WATER
Test Lines	05/07/2012 04:18							TESTED LINES TO 3597 PSI PRESSURE HOLDING
Pump Spacer 1	05/07/2012 04:24		4	20			102.0	FRESH WATER
Pump Lead Cement	05/07/2012 04:32		7.5	108.1			226.0	255 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

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Quote # :

Sales Order # :

9488065

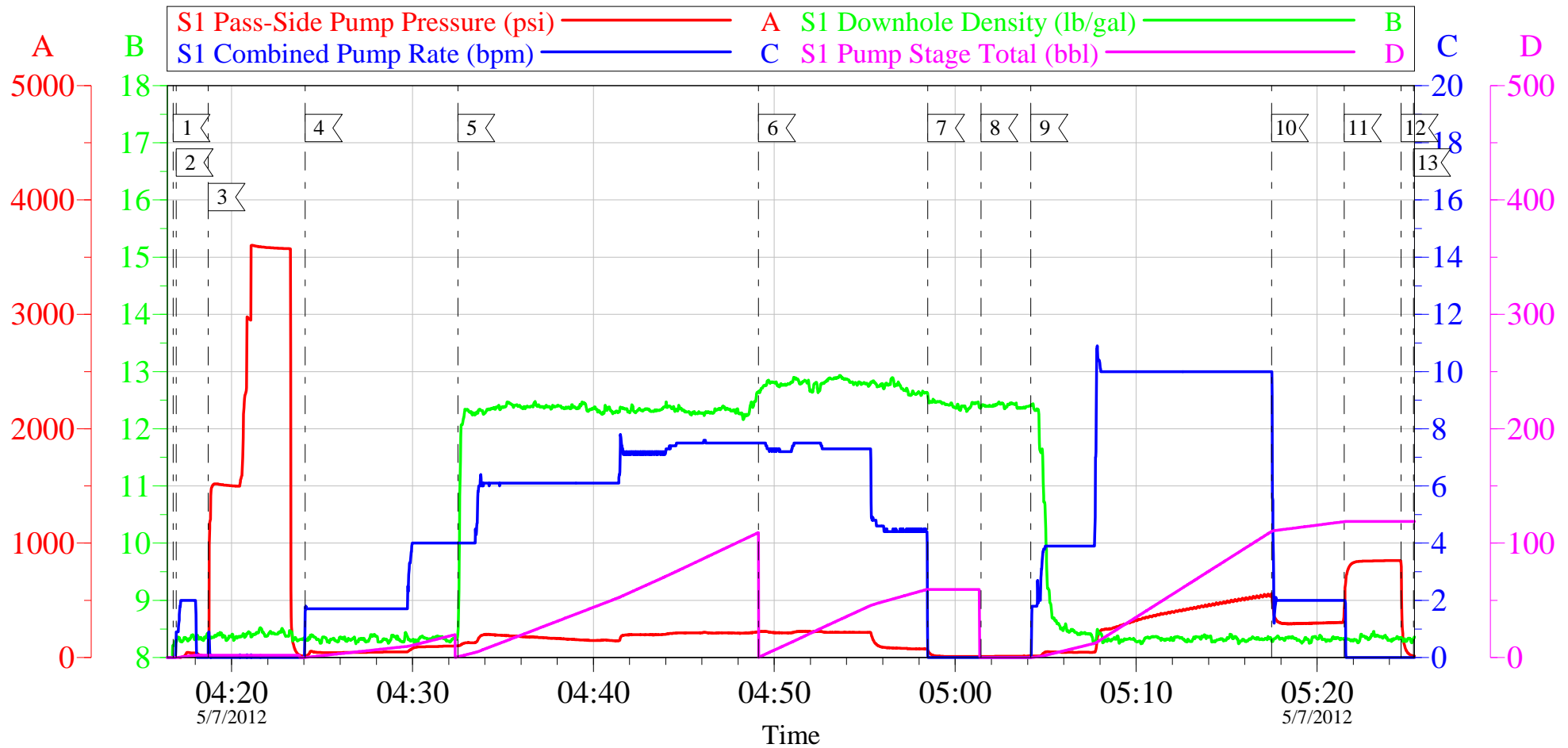
SUMMIT Version: 7.3.0021

Monday, May 07, 2012 05:53:00

		#		Stage	Total	Tubing	Casing	
Pump Tail Cement	05/07/2012 04:49		7.5	60.1			160.0	160 SKS AT 12.8 PPG, 2.11 FT3 SK, 11.75 GAL/SK
Shutdown	05/07/2012 04:58							
Drop Top Plug	05/07/2012 05:01							PLUG LAUNCHED
Pump Displacement	05/07/2012 05:04		10	110.9			540.0	FRESH WATER
Slow Rate	05/07/2012 05:17		2	10			380.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	05/07/2012 05:21		2		120.9		845.0	PLUG BUMPED
Check Floats	05/07/2012 05:24							FLOATS HOLDING. HES RETURNED 1/2 BBL H2O TO PUMP
End Job	05/07/2012 05:25							PIPE WAS STATIC DURING JOB, GOOD CIRCULATION THROUGHOUT JOB. HES RETURNED 30 BBL CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	05/07/2012 05:30							WITH ALL HES PERSONNEL
Rig-Down Equipment	05/07/2012 05:35							
Pre-Convoy Safety Meeting	05/07/2012 06:20							WITH ALL HES PERSONNEL
Crew Leave Location	05/07/2012 06:30							
Comment	05/07/2012 06:31							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.

# WILLIAMS SG 13-27

9 5/8 SURFACE



## Local Event Log

1	START JOB	04:16:46	2	PRIME LINES	04:16:56	3	TEST LINES	04:18:42
4	PUMP H2O SPACER	04:24:04	5	PUMP LEAD CEMENT	04:32:31	6	PUMP TAIL CEMENT	04:49:07
7	SHUTDOWN	04:58:28	8	DROP TOP PLUG	05:01:25	9	PUMP DISPLACEMENT	05:04:11
10	SLOW RATE	05:17:29	11	BUMP PLUG	05:21:30	12	CHECK FLOATS	05:24:39
13	END JOB	05:25:20						

Customer: WILLIAMS  
Well Description: SG 13-27  
Customer Rep: AL DUNIHO

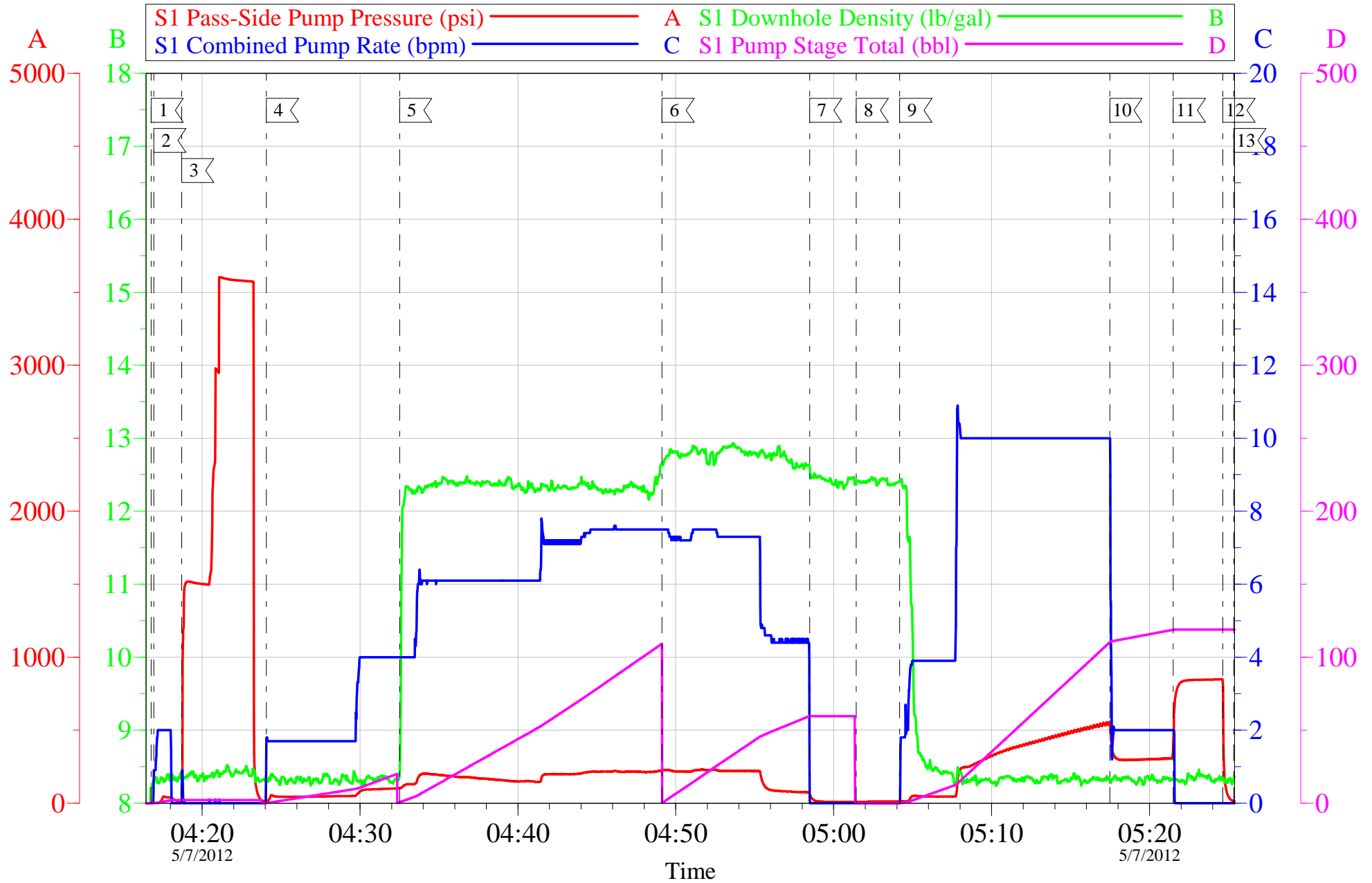
Job Date: 07-May-2012  
Job Type: SURFACE  
Cement Supervisor: JESSE SLAUGHTER

Sales Order #: 9488065  
ADC Used: YES  
Elite #4: JACOB DOUT

OptiCem v6.4.10  
07-May-12 05:32

# WILLIAMS SG 13-27

9 5/8 SURFACE



Customer: WILLIAMS  
Well Description: SG 13-27  
Customer Rep: AL DUNIHO

Job Date: 07-May-2012  
Job Type: SURFACE  
Cement Supervisor: JESSE SLAUGHTER

Sales Order #: 9488065  
ADC Used: YES  
Elite #4: JACOB DOUT

OptiCem v6.4.10  
07-May-12 05:33

# HALLIBURTON

## Water Analysis Report

Company: WILLIAMS PRODUCTION

Submitted by: JESSE SLAUGHTER

Attention: LAB

Lease SG

Well # 13-27

Date: 5/6/2012

Date Rec.:

S.O.# 9488065

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>55</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> 9488065	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/7/2012
<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> AFEYC3WX05JB3ZWBAAA
<b>Well Name:</b> SG		<b>Well Number:</b> 13-27
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Oklahoma	<b>Well County:</b> Osage

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	5/7/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JESSE SLAUGHTER (HB21762)
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> 9488065	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/7/2012
<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> AFEYC3WX05JB3ZWBA
<b>Well Name:</b> SG		<b>Well Number:</b> 13-27
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Oklahoma	<b>Well County:</b> Osage

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	5/7/2012

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.	2.5
<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	6
<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

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<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> AFEYC3WX05JB3ZWBAAA
<b>Well Name:</b> SG		<b>Well Number:</b> 13-27
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Oklahoma	<b>Well County:</b> Osage

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	95
<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