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

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**SG 414-27  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing**  
**09-Jun-2012**

**Post Job Summary**

### The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2930573	Quote #:	Sales Order #: 9578337
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Moore, Frank		
Well Name: SG	Well #: 414-27	API/UWI #:	
Field: GRAND VALLEY	City (SAP): PARACHUTE	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: TRIPLETT, MICHEAL	MBU ID Emp #:	447908

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, ADAM S	0.0	456683	BANKS, BRENT A	0.0	371353	ENGBERG, KEVIN W	0.0	454218
TRIPLETT, MICHEAL Anthony	0.0	447908						

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10567589C	60 mile	10783493	60 mile	10822007	60 mile	10867531	60 mile
10951246	60 mile	10989685	60 mile	11808829	60 mile		

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL	Total is the sum of each column separately							
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### Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	08 - Jun - 2012	10:30	MST
Form Type	BHST		Job Started	08 - Jun - 2012	23:40	MST
Job depth MD	1370. m	Job Depth TVD	1370. m	Job Completed	09 - Jun - 2012	00:37
Water Depth		Wk Ht Above Floor	13.1 m	Departed Loc	09 - Jun - 2012	01:30
Perforation Depth (MD)	From	To				

### Well Data

Description	New / Used	Max pressure MPa	Size mm	ID mm	Weight kg/m	Thread	Grade	Top MD m	Bottom MD m	Top TVD m	Bottom TVD m
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### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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 kg/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate m3/min	Total Mix Fluid m3/tonne
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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
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Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density kg/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate m3/min	Total Mix Fluid m3/tonne	
1	Fresh Water		20.00	bbl	8.33	.0	.0	.0		
2	VersaCem Lead	VERSACEM (TM) SYSTEM (452010)	200.0	sacks	12.3	2.38	13.77		13.77	
13.77 Gal		FRESH WATER								
3	VersaCem Tail	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75		11.75	
11.75 Gal		FRESH WATER								
4	Displacement Fluid		103.00	bbl	8.34	.0	.0	.0		
Calculated Values		Pressures		Volumes						
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad		
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment		
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job		
Rates										
Circulating		Mixing		Displacement		Avg. Job				
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> 2930573		<b>Quote #:</b>		<b>Sales Order #:</b> 9578337	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Moore, Frank			
<b>Well Name:</b> SG			<b>Well #:</b> 414-27			<b>API/UWI #:</b>	
<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 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> TRIPLETT, MICHEAL			<b>MBU ID Emp #:</b> 447908	

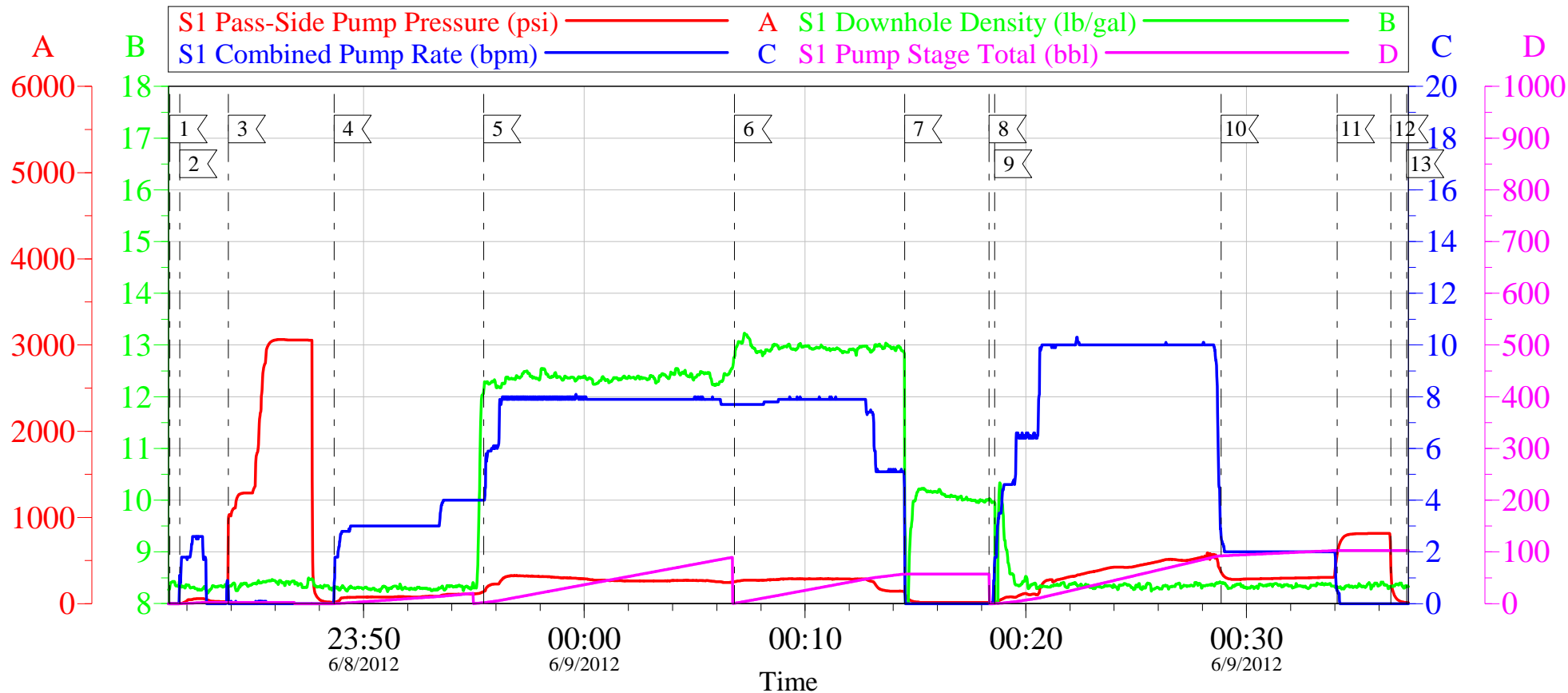
Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/08/2012 10:30							9 5/8 SURFACE, WPX, NABORS 573, SG 414-27.
Pre-Convoy Safety Meeting	06/08/2012 13:00							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Arrive At Loc	06/08/2012 14:00							ARRIVED EARLY. RIG JUST STARTING CASING.
Assessment Of Location Safety Meeting	06/08/2012 14:10							REVIEWED EMERGENCY PLAN, ASSESSED WORK AREA AND SPOTTED EQUIPMENT.
Pre-Rig Up Safety Meeting	06/08/2012 22:00							ENTIRE CREW, WALKED THROUGH RIG UP LOOKING FOR HAZARDS.
Rig-Up Equipment	06/08/2012 22:10							1 PICK UP, 1 HT400 PUMP TRUCK, 2 660 BULK CEMENT TRUCKS, 1 QUICK LATCH HEAD WITH PLUG,
Pre-Job Safety Meeting	06/08/2012 23:25							ENTIRE CREW, CO REP AND RIG CREW.
Start Job	06/08/2012 23:40							TD 1260 TP 1248.04 SJ 42.80 FC 1205.24 MW 10.1 PPG, 9 5/8 32.3# CASING IN 13 1/2 HOLE.
Pump Water	06/08/2012 23:41		2	2			61.0	FILL LINES BEFORE TESTING
Activity Description	Date/Time	Cht	Rate m3/min	Volume m3		Pressure MPa		Comments

		#		Stage	Total	Tubing	Casing	
Pressure Test	06/08/2012 23:43						3000.0	HELD PRESSURE FOR 2 MIN, PRESSURE HELD, NO LEAKS.
Pump Spacer 1	06/08/2012 23:48		4	20			110.0	FRESH WATER, PUMPED AT 2 BPM UNTIL CEMENT TUB UP TO WEIGHT AND WEIGHED WITH SCALES, SPED RATE TO 4 BPM AT 15 BBLS GONE.
Pump Lead Cement	06/08/2012 23:55		8	84.8			270.0	200 SKS VERSACEM, 12.3 PPG, 2.38 CUFT/SK, 13.77 GAL/SK.
Pump Tail Cement	06/09/2012 00:06		8	60.1			290.0	160 SKS VERSACEM, 12.8 PPG, 2.11 CUFT/SK, 11.77 GAL/SK.
Shutdown	06/09/2012 00:15							
Drop Top Plug	06/09/2012 00:18							VARIFIED PLUG LEFT CONTAINER. WASH UP ON TOP OF PLUG
Pump Displacement	06/09/2012 00:19		10	103.1			560.0	FRESH WATER, CEMENT TO SURFACE AT 80 BBLS GONE, 20 BBLS OF CEMENT TO SURFACE. USED 100 LBS SUGAR.
Slow Rate	06/09/2012 00:28		2	93.1			300.0	SLOWED RATE TO 2 BPM TO BUMP PLUG.
Bump Plug	06/09/2012 00:34						320.0	PLUG LANDED AT 320 PSI, BUMPED UP TO 815 PSI AND HELD FOR 2 MIN PER CO REP.
Check Floats	06/09/2012 00:36							FLOATS HELD, WHEN RELEASED PRESSURE GOT 1 BBL OF WATER BACK TO TRUCK.
End Job	06/09/2012 00:37							GOOD RETURNS THROUGHOUT JOB, DID NOT RECIPROCATATE PIPE. NO DERRICK CHARGE, 2 ADDITIONAL HOURS ADDED TO TICKET.
Post-Job Safety Meeting (Pre Rig-Down)	06/09/2012 00:38							ENTIRE CREW

Activity Description	Date/Time	Cht #	Rate m3/ min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Rig-Down Equipment	06/09/2012 00:40							
Pre-Convoy Safety Meeting	06/09/2012 01:25							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Crew Leave Location	06/09/2012 01:30							THANK YOU FOR USING HALLIBURTON, MIKE TRIPLETT AND CREW.

# WPX - SG - 414-27

9.625 SURFACE



## Local Event Log

1	START JOB	6/8/2012 23:41:14	2	FILL LINES	6/8/2012 23:41:40
3	PRESSURE TEST	6/8/2012 23:43:52	4	START H2O SPACER	6/8/2012 23:48:40
5	START LEAD CEMENT	6/8/2012 23:55:26	6	START TAIL CEMENT	6/9/2012 00:06:48
7	SHUTDOWN	6/9/2012 00:14:31	8	DROP PLUG	6/9/2012 00:18:20
9	START DISPLACEMENT	6/9/2012 00:18:35	10	SLOWRATE	6/9/2012 00:28:51
11	BUMP PLUG	6/9/2012 00:34:07	12	END JOB	6/9/2012 00:36:32
13	CHECK FLOATS	6/9/2012 00:37:15			

Customer: WPX  
Well Description: SG 414-27  
Company Rep: AL DUNIHO

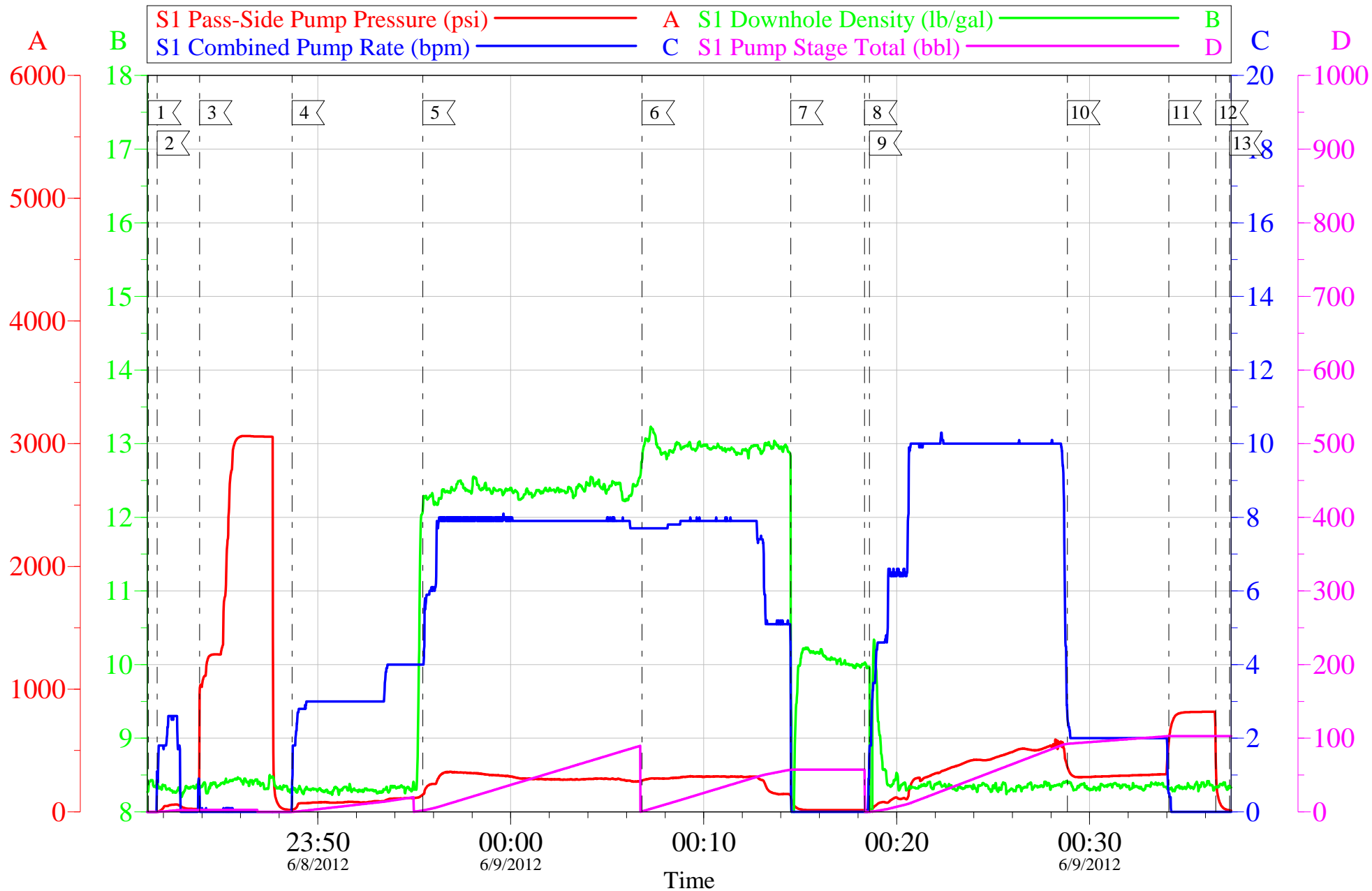
Job Date: 08-Jun-2012  
Job Type: 9.625 SURFACE  
Cement Supervisor: MIKE TRIPLETT

Sales Order #: 95783337  
ADC Used: YES  
Elite #3: BRENT BANKS

OptiCem v6.4.9  
09-Jun-12 00:38

# WPX - SG - 414-27

Type of Job (Surface Production Sqz)



Customer: WPX	Job Date: 08-Jun-2012	Sales Order #: 95783337
Well Description: SG 414-27	Job Type: 9.625 SURFACE	ADC Used: YES
Company Rep: AL DUNIHO	Cement Supervisor: MIKE TRIPLET	Elite #3: BRENT BANKS

OptiCem v6.4.9  
09-Jun-12 00:37



<b>Sales Order #:</b> 9578337	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 6/9/2012
<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> AFEYKHE0Q2JRGK4JAAA
<b>Well Name:</b> SG		<b>Well Number:</b> 414-27
<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	6/9/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	MICHEAL TRIPLETT (HB15721)
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> 9578337	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 6/9/2012
<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> AFEYKHE0Q2JRGK4JAAA
<b>Well Name:</b> SG		<b>Well Number:</b> 414-27
<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	6/9/2012

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.	3
<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.	2
<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> 9578337	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 6/9/2012
<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> AFEYKHE0Q2JRGK4JAAA
<b>Well Name:</b> SG		<b>Well Number:</b> 414-27
<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	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