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

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**PA 513-29  
PARACHUTE  
Garfield County , Colorado**

**Cement Surface Casing**  
**17-Apr-2012**

**Post Job Summary**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721		<b>Ship To #:</b> 300721		<b>Quote #:</b>		<b>Sales Order #:</b> 9415357	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Towers, Ron			
<b>Well Name:</b> PA			<b>Well #:</b> 513-29			<b>API/UWI #:</b> 05-045-19539	
<b>Field:</b> PARACHUTE		<b>City (SAP):</b> Parachute		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Lat:</b> N 39.49 deg. OR N 39 deg. 29 min. 23.852 secs.				<b>Long:</b> W 108.023 deg. OR W -109 deg. 58 min. 36.455 secs.			
<b>Contractor:</b> NABORS 577			<b>Rig/Platform Name/Num:</b> NABORS 577				
<b>Job Purpose:</b> Cement Surface Casing							
<b>Well Type:</b> Development Well				<b>Job Type:</b> Cement Surface Casing			
<b>Sales Person:</b> SCOTT, KYLE				<b>Srvc Supervisor:</b> TRIPLETT, MICHEAL		<b>MBU ID Emp #:</b> 447908	

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HARDRICK, RAYMOND Frank	13.5	391324	ROMKEE, DALE Alan	13.5	488215	TRIPLETT, MICHEAL Anthony	13.5	447908
WEAVER, CARLTON Russell	13.5	457698						

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10804567	60 mile	10867094	60 mile	10872429	60 mile	10897925	60 mile
10951245	60 mile	11808847	60 mile				

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
04/17/2012	13.5	2						

<b>TOTAL</b>	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	17 - Apr - 2012	04:30	MST
Form Type	BHST		Job Started	17 - Apr - 2012	15:57	MST
Job depth MD	2570. ft	Job Depth TVD	2570. ft	Job Completed	17 - Apr - 2012	17:25
Water Depth		Wk Ht Above Floor	4. ft	Departed Loc	17 - Apr - 2012	18:15
Perforation Depth (MD)	From	To				

**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
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			
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 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		20.00	bbl	8.33			4	
2	VersaCem Lead	VERSACEM (TM) SYSTEM (452010)	455.0	sacks	12.3	2.38	13.75	8	13.75
	13.75 Gal	FRESH WATER							
3	VersaCem Tail	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		195.00	bbl	8.34			10	
Calculated Values		Pressures		Volumes					
Displacement	195.2	Shut In: Instant		Lost Returns	0	Cement Slurry	255	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	44	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	440
Rates									
Circulating	8	Mixing	8	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	30 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					

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<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Towers, Ron			
<b>Well Name:</b> PA			<b>Well #:</b> 513-29			<b>API/UWI #:</b> 05-045-19539	
<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 39.49 deg. OR N 39 deg. 29 min. 23.852 secs.				<b>Long:</b> W 108.023 deg. OR W -109 deg. 58 min. 36.455 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> SCOTT, KYLE			<b>Srvc Supervisor:</b> TRIPLETT, MICHEAL			<b>MBU ID Emp #:</b> 447908	

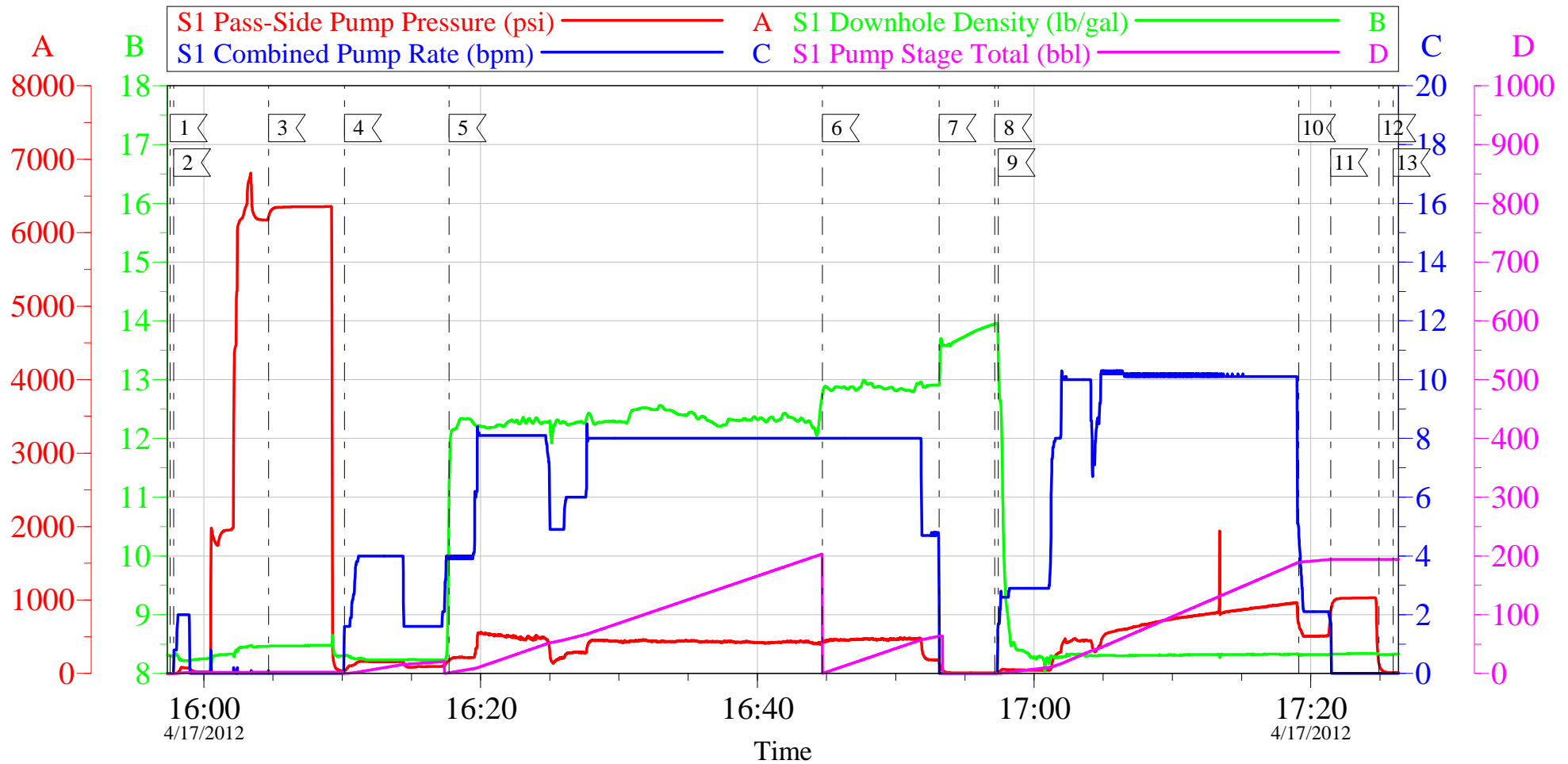
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	04/17/2012 01:00							9 5/8 SURFACE, WILLIAMS, NABORS 577, PA 513-29.
Pre-Convoy Safety Meeting	04/17/2012 03:00							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Arrive At Loc	04/17/2012 04:30							ARRIVED EARLY. RIG JUST STARTING CASING.
Assessment Of Location Safety Meeting	04/17/2012 04:35							REVIEWED EMERGENCY PLAN, ASSESSED WORK AREA AND SPOTTED EQUIPMENT.
Pre-Rig Up Safety Meeting	04/17/2012 14:00							ENTIRE CREW, WALKED THROUGH RIG UP LOOKING FOR HAZARDS.
Rig-Up Equipment	04/17/2012 14:15							1 PICK UP, 1 HT400 PUMP TRUCK, 2 660 BULK CEMENT TRUCKS, 1 QUICK LATCH HEAD WITH PLUG,
Pre-Job Safety Meeting	04/17/2012 15:45							ENTIRE CREW, CO REP AND RIG CREW.
Start Job	04/17/2012 15:57							TD 2570' TP:2553' SJ 44' FC 2509' MW 10.5 PPG, 9 5/8 32.3# CASING IN 13 1/2 HOLE. RIG CIRC APPROX 1 HR.
Pump Water	04/17/2012 15:58		2	2			80.0	FILL LINES BEFORE TESTING

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pressure Test	04/17/2012 16:04						2500	HELD PRESSURE FOR 2 MIN, PRESSURE HELD, NO LEAKS.
Pump Spacer 1	04/17/2012 16:10		4	20			180.0	FRESH WATER, PUMPED AT BPM UNTIL CEMENT TUB UP TO WEIGHT AND WEIGHED WITH SCALES, SPED RATE TO BPM AT BBLS GONE.
Pump Lead Cement	04/17/2012 16:17		8	192.9			550.0	455 SKS VERSACEM, 12.3 PPG, 2.38 CUFT/SK, 13.75 GAL/SK.
Pump Tail Cement	04/17/2012 16:44		8	60.1			460.0	160 SKS VERSACEM, 12.8 PPG, 2.11 CUFT/SK, 11.75 GAL/SK.
Shutdown	04/17/2012 16:53							
Drop Top Plug	04/17/2012 16:57							VARIFIED PLUG LEFT CONTAINER.
Pump Displacement	04/17/2012 16:58		10	195.2			900.0	FRESH WATER, CEMENT TO SURFACE AT 150 BBLS GONE, 30 BBLS OF CEMENT TO SURFACE. USED 100 LBS SUGAR.
Slow Rate	04/17/2012 17:19		2	185.2			500.0	SLOWED RATE TO 2 BPM TO BUMP PLUG.
Bump Plug	04/17/2012 17:21						530.0	PLUG LANDED AT 530 PSI, BUMPED UP TO 1000 PSI AND HELD FOR 2 MIN PER CO REP.
Check Floats	04/17/2012 17:24							FLOATS HELD, WHEN RELEASED PRESSURE GOT 1.5 BBLS OF WATER BACK TO TRUCK.
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

End Job	04/17/2012 17:25							GOOD RETURNS THROUGHOUTJOB, DID NOT RECIPROCATATE PIPE, 3 ADDITIONAL HOURS ADDED TO TICKET, NO DERRICK CHARGE, 100#'S OF SUGAR USED.
Post-Job Safety Meeting (Pre Rig-Down)	04/17/2012 17:27							ENTIRE CREW
Rig-Down Equipment	04/17/2012 17:30							
Pre-Convoy Safety Meeting	04/17/2012 18:00							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Crew Leave Location	04/17/2012 18:15							THANK YOU FOR USING HALLIBURTON, MIKE TRIPLETT AND CREW.

# WPX - PA 513-29

9.625 SURFACE



## Local Event Log

1 START JOB	15:57:34	2 FILL LINES	15:57:49	3 PRESSURE TEST	16:04:40
4 START H2O SPACER	16:10:10	5 START LEAD CEMENT	16:17:43	6 START TAIL CEMENT	16:44:42
7 SHUTDOWN	16:53:08	8 DROP PLUG	16:57:10	9 START DISPLACEMENT	16:57:25
10 SLOWRATE	17:19:07	11 BUMP PLUG	17:21:26	12 CHECK FLOATS	17:24:55
13 END JOB	17:25:57				

Customer: WPX  
Well Description: PA 513-29  
Company Rep: RON TOWERS

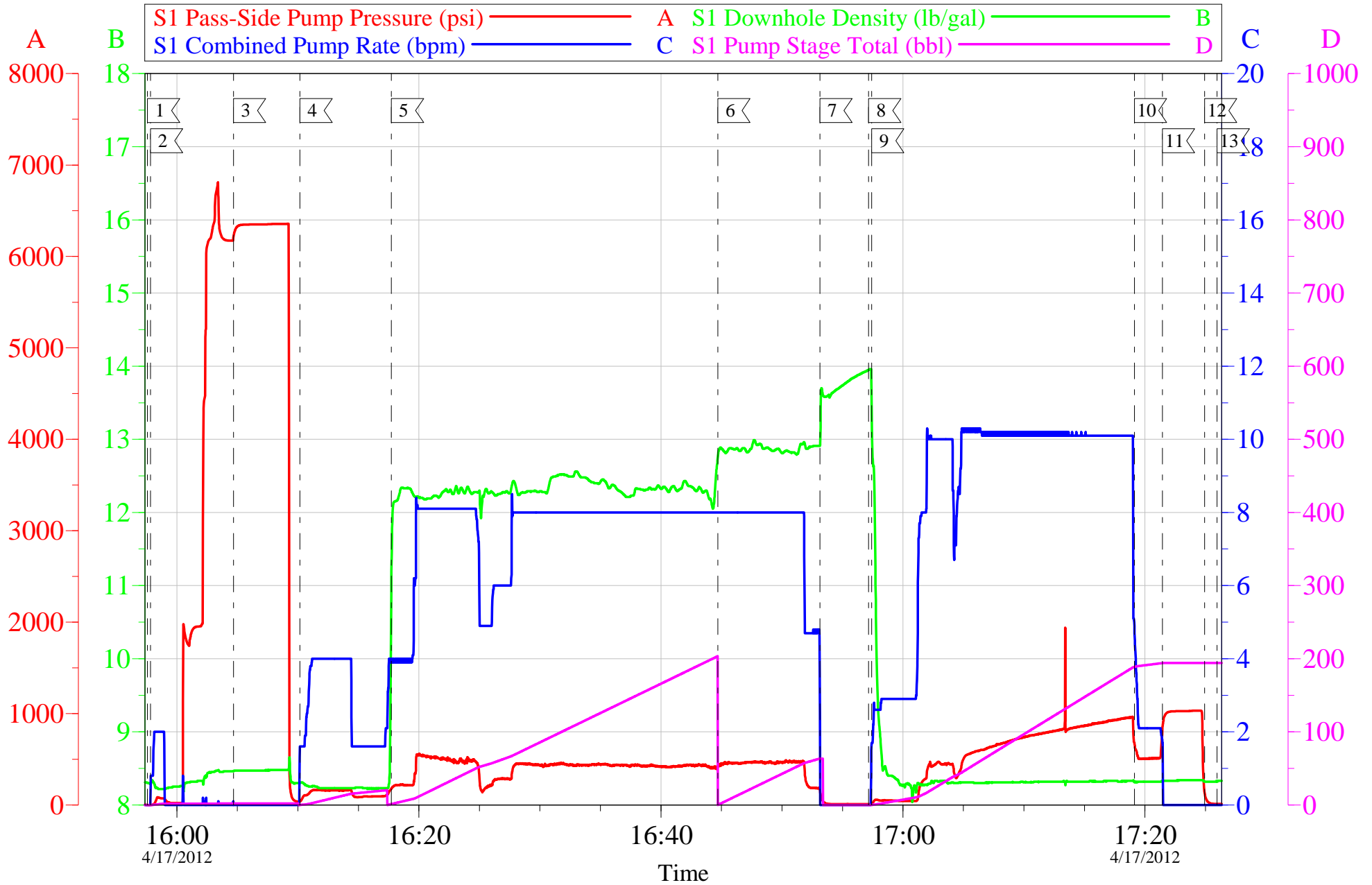
Job Date: 17-Apr-2012  
Job Type: SURFACE  
Cement Supervisor: MIKE TRIPLETT

Sales Order #: 9415357  
ADC Used: YES  
Elite #7: RAY HARDRICK

OptiCem v6.4.9  
17-Apr-12 17:29

# WPX - PA 513-29

9.625 SURFACE



Customer: WPX  
Well Description: PA 513-29  
Company Rep: RON TOWERS

Job Date: 17-Apr-2012  
Job Type: SURFACE  
Cement Supervisor: MIKE TRIPLETT

Sales Order #: 9415357  
ADC Used: YES  
Elite #7: RAY HARDRICK

OptiCem v6.4.9  
17-Apr-12 17:29



# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: MIKE TRIPLETT  
Attention: LAB  
Lease: PA  
Well #: 513-29

Date: 4/17/2012  
Date Rec.: 4/17/2012  
S.O.#: 9415357  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>250</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>0</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>&lt;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>160</b> Mg / L

Respectfully: MIKE TRIPLETT

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

<b>Sales Order #:</b> 9415357	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/17/2012
<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> 05-045-19539
<b>Well Name:</b> PA		<b>Well Number:</b> 513-29
<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	4/17/2012
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	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	

CUSTOMER SIGNATURE

<b>Sales Order #:</b> 9415357	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/17/2012
<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> 05-045-19539
<b>Well Name:</b> PA		<b>Well Number:</b> 513-29
<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	4/17/2012

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> 9415357	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/17/2012
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<b>Customer Representative:</b> RON TOWERS		<b>API / UWI: (leave blank if unknown)</b> 05-045-19539
<b>Well Name:</b> PA		<b>Well Number:</b> 513-29
<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