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

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**PA 314-29  
PARACHUTE  
Garfield County , Colorado**

## **Cement Surface Casing** **18-Feb-2012**

### **Post Job Summary**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2903407	Quote #:	Sales Order #: 9217449
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Nicholas, Larry	
Well Name: PA		Well #: 314-29	API/UWI #: 05-045-19542
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.49 deg. OR N 39 deg. 29 min. 23.536 secs.		Long: W 108.023 deg. OR W -109 deg. 58 min. 36.88 secs.	
Contractor: NABORS		Rig/Platform Name/Num: NABORS 577	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: SCOTT, KYLE		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 #
BANKS, BRENT A	0.0	371353	HARDRICK, RAYMOND Frank	0.0	391324	ROSE, BENJAMIN Keith	0.0	487022
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
10025118	60 mile	10744648C	60 mile	10998508	60 mile	11360881	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				Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom		Called Out	18 - Feb - 2012	11:30 MST
Form Type	BHST			On Location	18 - Feb - 2012	15:00 MST
Job depth MD	2435. ft	Job Depth TVD	2435. ft	Job Started	18 - Feb - 2012	18:32 MST
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	18 - Feb - 2012	19:47 MST
Perforation Depth (MD)	From	To		Departed Loc	18 - Feb - 2012	21:00 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
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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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Stage/Plug #: 1

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	.0	.0	.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	405.0	sacks	12.3	2.38	13.75		13.75
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75		11.75
11.75 Gal		FRESH WATER							
4	Displacement Fluid		186.00	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> 2903407		<b>Quote #:</b>		<b>Sales Order #:</b> 9217449	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Nicholas, Larry			
<b>Well Name:</b> PA			<b>Well #:</b> 314-29			<b>API/UWI #:</b> 05-045-19542	
<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. 23.536 secs.				<b>Long:</b> W 108.023 deg. OR W -109 deg. 58 min. 36.88 secs.			
<b>Contractor:</b> NABORS			<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>Srv Supervisor:</b> TRIPLETT, MICHEAL			<b>MBU ID Emp #:</b> 447908	

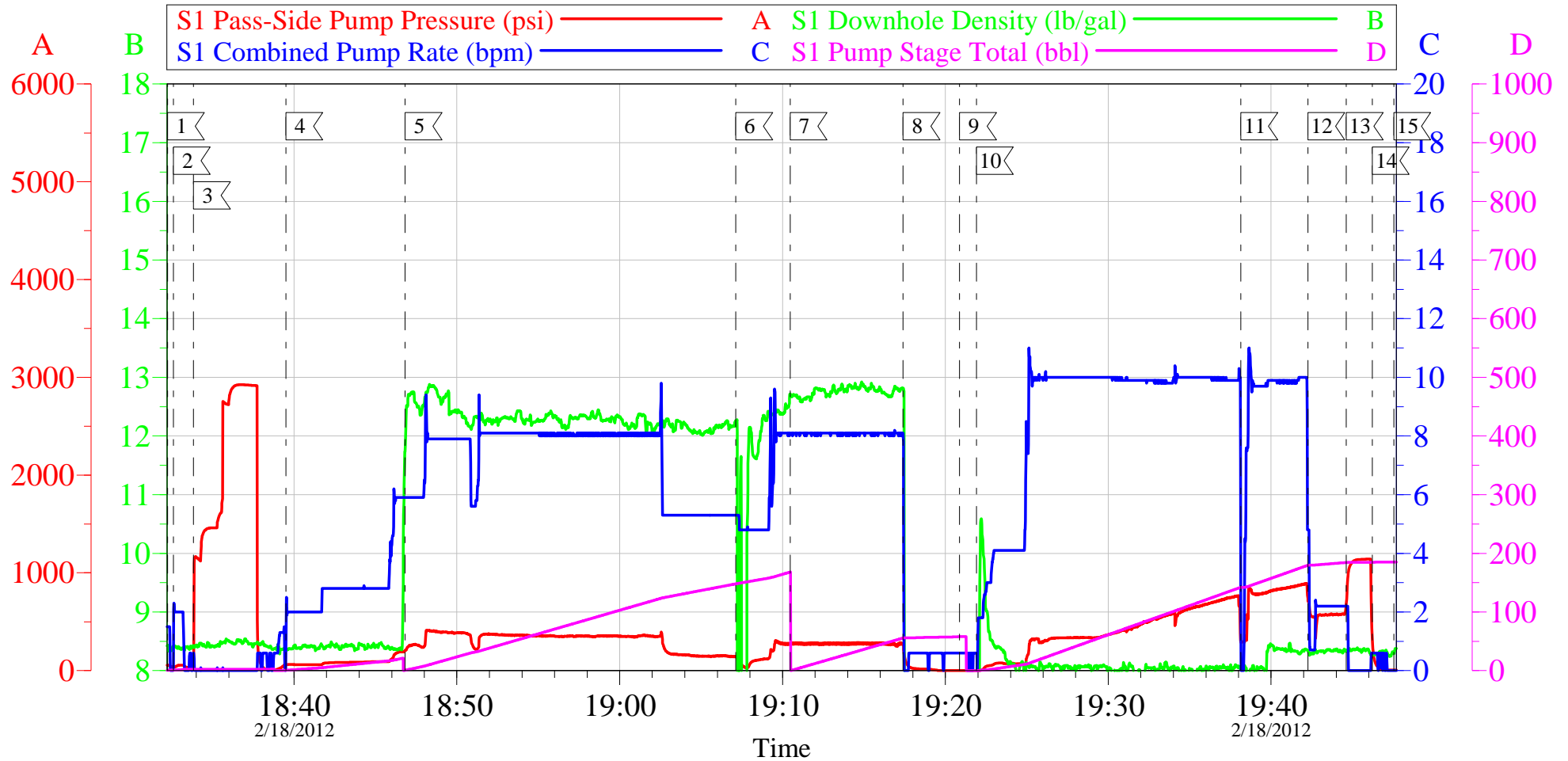
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/18/2012 11:30							9 5/8 SURFACE, WILLIAMS, NABORS 577, PA 314-29
Pre-Convoy Safety Meeting	02/18/2012 13:55							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Arrive At Loc	02/18/2012 15:00							ARRIVED EARLY. RIG WAS RUNNING CASING.
Assessment Of Location Safety Meeting	02/18/2012 15:05							REVIEWED EMERGENCY PLAN, ASSESSED WORK AREA AND SPOTTED EQUIPMENT.
Pre-Rig Up Safety Meeting	02/18/2012 15:15							ENTIRE CREW, WALKED THROUGH RIG UP LOOKING FOR HAZARDS.
Rig-Up Equipment	02/18/2012 15:20							1 PICK UP, 1 HT400 PUMP TRUCK, 1 660 BULK CEMENT TRUCK, 1 1700 FT3 SILO, 1 QUICK LATCH HEAD WITH PLUG,
Pre-Job Safety Meeting	02/18/2012 18:15							ENTIRE CREW, CO REP AND RIG CREW.
Start Job	02/18/2012 18:31							TD 2435' TP 2415'.04 SJ 44' FC 2371' MW 10.5 PPG, 9 5/8 32.3# CASING IN 13 1/2 HOLE. RIG CIRC APPROX 1 HR.
Pump Water	02/18/2012 18:32		2	2			56.0	FILL LINES BEFORE TESTING

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pressure Test	02/18/2012 18:33						3000.0	HELD PRESSURE FOR 2 MIN, PRESSURE HELD, NO LEAKS.
Pump Spacer 1	02/18/2012 18:39		4	20			196.0	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	02/18/2012 18:46		8	171.7			350.0	180 SKS VERSACEM, 12.3 PPG, 2.38 CUFT/SK, 13.75 GAL/SK.
Pump Tail Cement	02/18/2012 19:10		8	60.1			350.0	160 SKS VERSACEM, 12.8 PPG, 2.11 CUFT/SK, 11.75 GAL/SK.
Shutdown	02/18/2012 19:17							
Drop Top Plug	02/18/2012 19:20							VARIFIED PLUG LEFT CONTAINER.
Pump Displacement	02/18/2012 19:21		10	186.6			880.0	FRESH WATER, WASHED UP ONTOP OF PLUG PER COMPANY REP. CEMENT TO SURFACE AT 120 BBLS GONE, 60 BBLS OF CEMENT TO SURFACE. USED 100 LBS SUGAR.
Slow Rate	02/18/2012 19:42		2	176.6			540.0	SLOWED RATE TO 2 BPM TO BUMP PLUG.
Bump Plug	02/18/2012 19:44						590.0	PLUG LANDED AT 590 PSI, BUMPED UP TO 1110 PSI AND HELD FOR 2 MIN PER CO REP.
Check Floats	02/18/2012 19:46							FLOATS HELD, WHEN RELEASED PRESSURE GOT 1/2 BBL OF WATER BACK TO TRUCK.
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

End Job	02/18/2012 19:47							GOOD RETURNS THROUGHOUT, DID NOT RECIPROCATATE PIPE. NO ADDITIONAL HOURS, NO DERRICK CHARGE, 100#'S OF SUGAR USED.
Post-Job Safety Meeting (Pre Rig-Down)	02/18/2012 19:50							ENTIRE CREW
Rig-Down Equipment	02/18/2012 19:55							
Pre-Convoy Safety Meeting	02/18/2012 20:55							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Crew Leave Location	02/18/2012 21:00							THANK YOU FOR USING HALLIBURTON, MIKE TRIPLETT AND CREW.

# WILLIAMS - PA - 314-29

9.625 SURFACE



## Local Event Log

1 START JOB	18:32:14	2 FILL LINES	18:32:36	3 PRESSURE TEST	18:33:50
4 START H2O SPACER	18:39:30	5 START LEAD CEMENT	18:46:49	6 SUCKED AIR	19:07:08
7 START TAIL CEMENT	19:10:28	8 SHUTDOWN	19:17:24	9 DROP PLUG	19:20:52
10 START DISPLACEMENT	19:21:54	11 KICKOUT WENT	19:38:09	12 SLOWRATE	19:42:15
13 BUMP PLUG	19:44:37	14 CHECK FLOATS	19:46:13	15 END JOB	19:47:32

Customer: WILLIAMS  
Well Description: PA 314-29  
Company Rep: LARRY NICHOLS

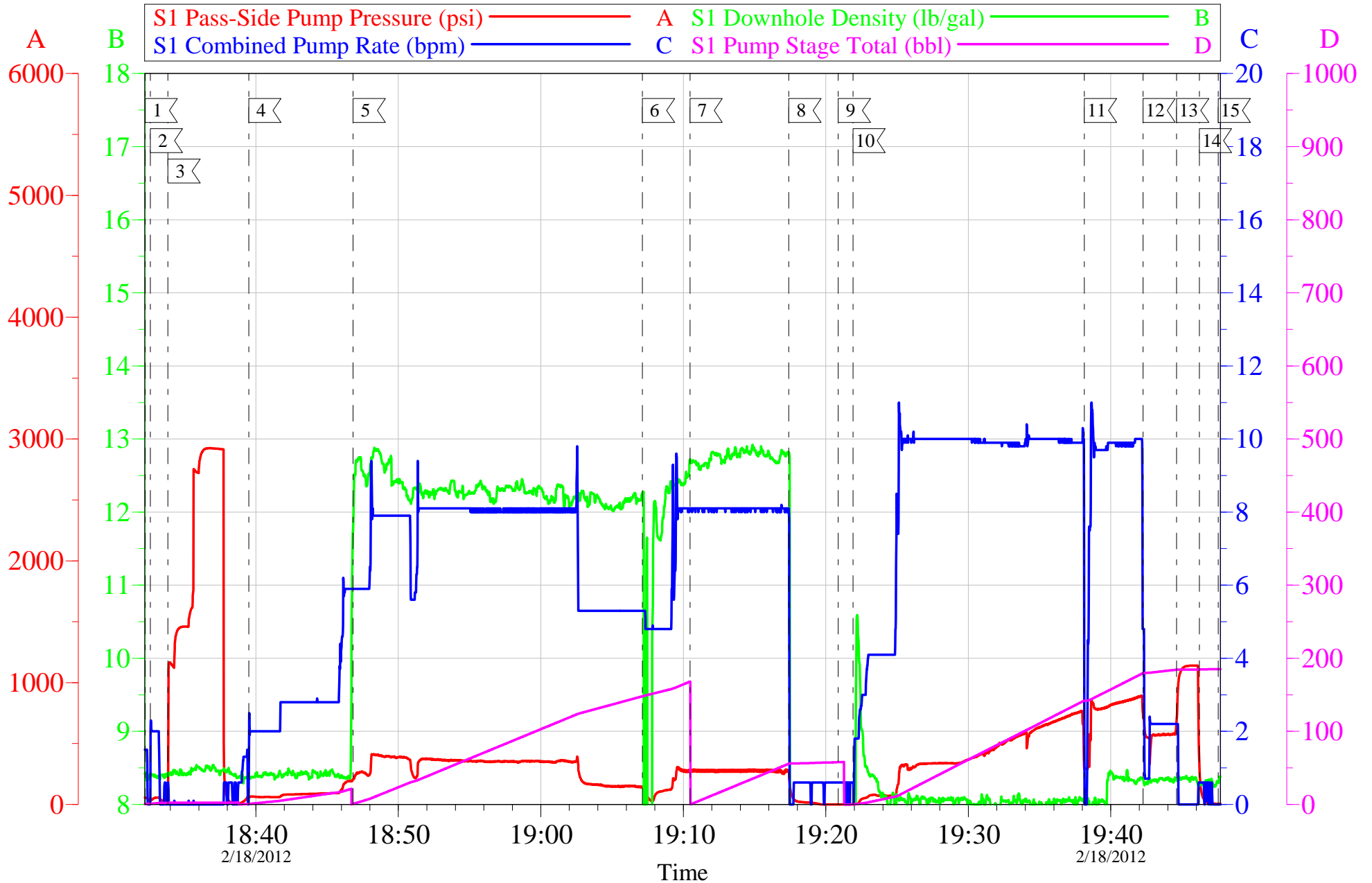
Job Date: 18-Feb-2012  
Job Type: SURFACE  
Cement Supervisor: MIKE TRIPLETT

Sales Order #: 9217449  
ADC Used: YES  
Elite #6: RAY HARDRICK

OptiCem v6.4.9  
18-Feb-12 19:52

# WILLIAMS - PA - 314-29

9.625 SURFACE



Customer: WILLIAMS	Job Date: 18-Feb-2012	Sales Order #: 9217449
Well Description: PA 314-29	Job Type: SURFACE	ADC Used: YES
Company Rep: LARRY NICHOLS	Cement Supervisor: MIKE TRIPLETT	Elite #6: RAY HARDRICK

OptiCem v6.4.9  
18-Feb-12 19:52



# HALLIBURTON

## Water Analysis Report

Company: WILLIAMS  
Submitted by: MIKE TRIPLETT  
Attention: LAB  
Lease: PA  
Well #: 314-29

Date: 2/18/2012  
Date Rec.: 2/18/2012  
S.O.#: 9217449  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>6</i>
Potassium (K)	<i>5000</i>	<i>450</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>-200</i> Mg / L
Chlorine (Cl <sub>2</sub> )		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>50</i> Deg
Total Dissolved Solids		<i>120</i> 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 c

<b>Sales Order #:</b> 9217449	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 2/18/2012
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> 05-045-19542
<b>Well Name:</b> PA		<b>Well Number:</b> 314-29
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<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	2/18/2012
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)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

<b>CUSTOMER SIGNATURE</b>
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<b>Sales Order #:</b> 9217449	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 2/18/2012
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> 05-045-19542
<b>Well Name:</b> PA		<b>Well Number:</b> 314-29
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<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	2/18/2012

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.	4
<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> 9217449	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 2/18/2012
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> 05-045-19542
<b>Well Name:</b> PA		<b>Well Number:</b> 314-29
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<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