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

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**PA 343-2  
PARACHUTE  
Garfield County , Colorado**

**Cement Surface Casing**  
**11-Apr-2013**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 300721	Quote #:	Sales Order #: 900353922
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Vallad, Gary		
Well Name: PA	Well #: 343-2	API/UWI #: 05-045-20892	
Field: PARACHUTE	City (SAP): TULSA	County/Parish: Garfield	State: Colorado
Lat: N 39.466 deg. OR N 39 deg. 27 min. 57.838 secs.	Long: W 107.954 deg. OR W -108 deg. 2 min. 45.697 secs.		
Contractor: NABORS 574	Rig/Platform Name/Num: NABORS 574		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srv Supervisor: KUKUS, CHRISTOPHER	MBU ID Emp #: 413952	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
KUKUS, CHRISTOPHER A	7.5	413952	LAULAINEN, ROGER Edward	7.5	524413	ROSE, BENJAMIN Keith	7.5	487022

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10297346	60 mile	10616651C	60 mile	11071559	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
04/11/2013	7.5	2.5						
TOTAL	Total is the sum of each column separately							

## Job

Formation Name	Job	Date	Time	Time Zone
Formation Depth (MD)	Top Bottom	Called Out	11 - Apr - 2013	09:30 MST
Form Type	BHST	On Location	11 - Apr - 2013	15:00 MST
Job depth MD	996. ft	Job Depth TVD	996. ft	Job Started
Water Depth		Wk Ht Above Floor	5. ft	Job Completed
Perforation Depth (MD)	From To	Departed Loc	11 - Apr - 2013	22:30 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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## 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	9 5/8	1		981	Bridge Plug					Bottom Plug			
Float Collar	9 5/8	1		935	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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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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 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	8.33	.0	.0	4	
2	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	265.0	sacks	12.8	2.11	11.75	7	11.75
11.75 Gal		FRESH WATER							
3	Fresh Water Displacement		73.60	bbl	8.33	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	73.6	Shut In: Instant		Lost Returns	0	Cement Slurry	99.6	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	13	Actual Displacement	73.6	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	193.2
Rates									
Circulating		Mixing	7	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*

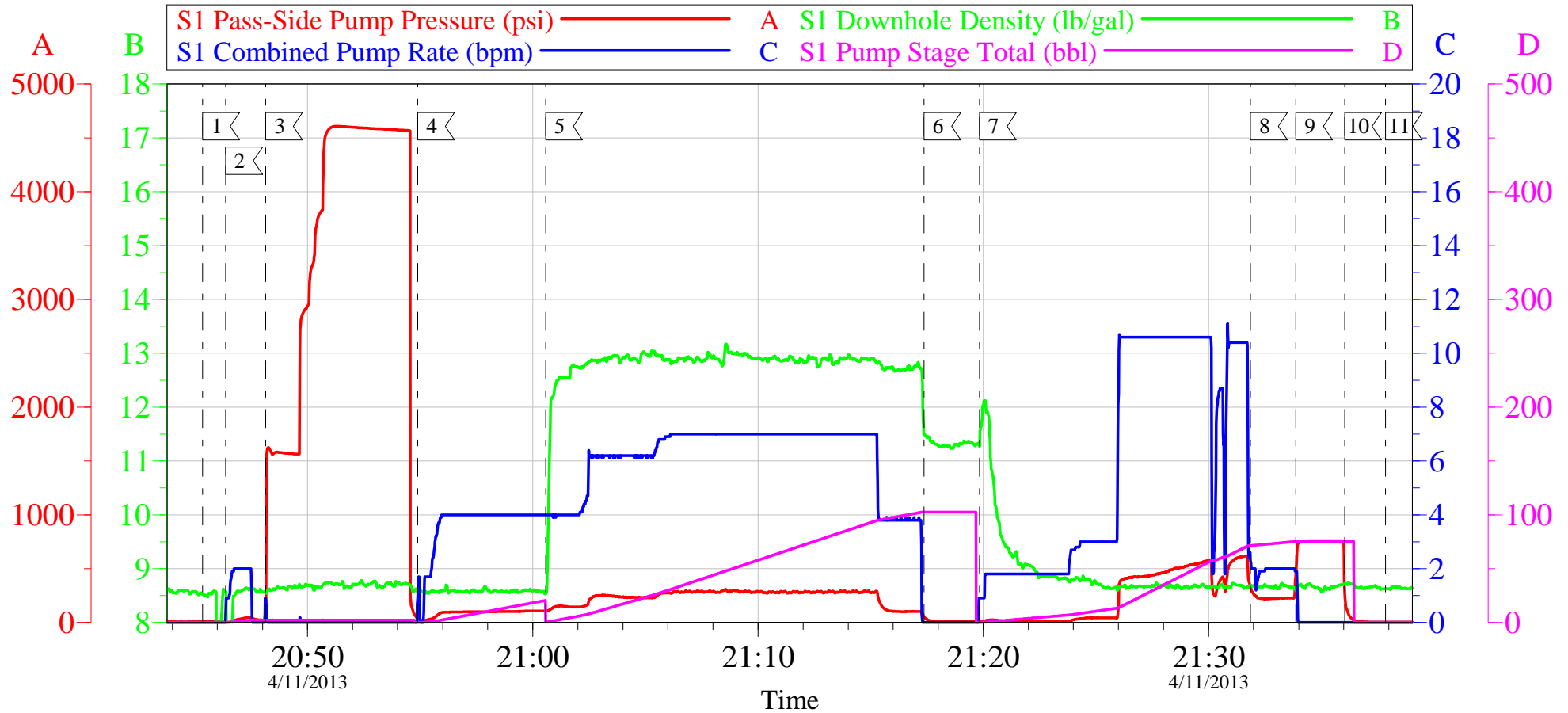
<b>Sold To #:</b> 300721		<b>Ship To #:</b> 300721		<b>Quote #:</b>		<b>Sales Order #:</b> 900353922	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Vallad, Gary			
<b>Well Name:</b> PA			<b>Well #:</b> 343-2		<b>API/UWI #:</b> 05-045-20892		
<b>Field:</b> PARACHUTE		<b>City (SAP):</b> TULSA		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Legal Description:</b>							
<b>Lat:</b> N 39.466 deg. OR N 39 deg. 27 min. 57.838 secs.				<b>Long:</b> W 107.954 deg. OR W -108 deg. 2 min. 45.697 secs.			
<b>Contractor:</b> NABORS 574			<b>Rig/Platform Name/Num:</b> NABORS 574				
<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>Srv Supervisor:</b> KUKUS, CHRISTOPHER			<b>MBU ID Emp #:</b> 413952	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	04/11/2013 09:30							ELITE # 4
Depart Yard Safety Meeting	04/11/2013 13:30							ALL HES EMPLOYEES
Arrive At Loc	04/11/2013 15:00							RIG RUNNING CASING HES CREW ARRIVED ON TIME AND WAS ASKED TO RIG UP PER CO-REP REQUEST
Assessment Of Location Safety Meeting	04/11/2013 15:30							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	04/11/2013 15:50							ALL HES EMPLOYEES
Rig-Up Equipment	04/11/2013 16:00							1 F-550 PICKUP 1 HT-400 PUMP TRUCK 1 660 BULK TRUCK IRON TO STAND PIPE, SUCTION HOSE TO FRESH WATER SOURCE, BULK HOSE TO BULK TRUCK
Pre-Job Safety Meeting	04/11/2013 20:30							ALL HES EMPLOYEES AND RIG CREW
Start Job	04/11/2013 20:45							TD: 996 TP: 981 SJ: 46 CSG: 9 5/8 32.3# OH: 13 1/2 MUD WT 10.3 VIS:54 RIG GOING TO CIRCULATE FOR 1 HOUR BEFORE CEMENT JOB
Test Lines	04/11/2013 20:48					4608.0		PRESSURE TEST OK
Pump Spacer	04/11/2013 20:54		4	20	20		105.0	FRESH WATER SPACER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	04/11/2013 21:00		7	99.6	99.6		290.0	265 SKS 12.8 PPG 2.11 YEILD 11.75 GAL / SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGH OUT TAIL CEMENT
Shutdown	04/11/2013 21:17							SHUTDOWN END OF CEMENT / READY TUB FOR DISPLACEMENT
Drop Plug	04/11/2013 21:18							PLUG AWAY NO PROBLEMS
Pump Displacement	04/11/2013 21:19		10	63.6	63.6		590.0	FRESH WATER DISPLACEMENT HES WASHED UP ON TOP OF PLUG PER CO-REP REQUEST
Slow Rate	04/11/2013 21:31		2	10	10		220.0	SLOW RATE TO BUMP PLUG
Bump Plug	04/11/2013 21:33		2	73.6	73.6		230.0	BUMP PLUG @ 230 AND TOOK PRESSURE UP TO 760 PSI
Check Floats	04/11/2013 21:36							FLOATS HELD .5 BBL BACK TO DISPLACEMENT TANKS
End Job	04/11/2013 21:37							WELL HAD GOOD CIRCULATION THROUGH OUT CEMENT JOB GOT 13 BBLS OF CEMENT TO SURFACE RIG USED NO SUGAR TICKET CHANGES: NO ADD HOURS, NO DERRICK CHARGE, NO SUGAR
Pre-Rig Down Safety Meeting	04/11/2013 21:45							ALL HES EMPLOYEES
Rig-Down Equipment	04/11/2013 21:55							IRON , SUCTION HOSES, BULK HOSE, WASH AND BLOW DOWN PUMP
Pre-Convoy Safety Meeting	04/11/2013 22:20							ALL HES EMPLOYEES
Crew Leave Location	04/11/2013 22:30							THANKS FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

# WPX ENERGY / PA 343-2

9 5/8 SURFACE



## Local Event Log

1	START JOB	20:45:21	2	FILL LINES	20:46:22
3	TEST LINES	20:48:08	4	PUMP FRESH WATER SPACER	20:54:53
5	PUMP TAIL CEMENT	21:00:34	6	SHUTDOWN / DROP PLUG	21:17:22
7	PUMP FRESH WATER DISPLACEMENT	21:19:50	8	SLOW RATE	21:31:52
9	BUMP PLUG	21:33:52	10	CHECK FLOATS	21:36:02
11	END JOB	21:37:51			

Customer: WPX ENERGY  
Well Description: PA 343-2  
Company Rep: GARY VALAD

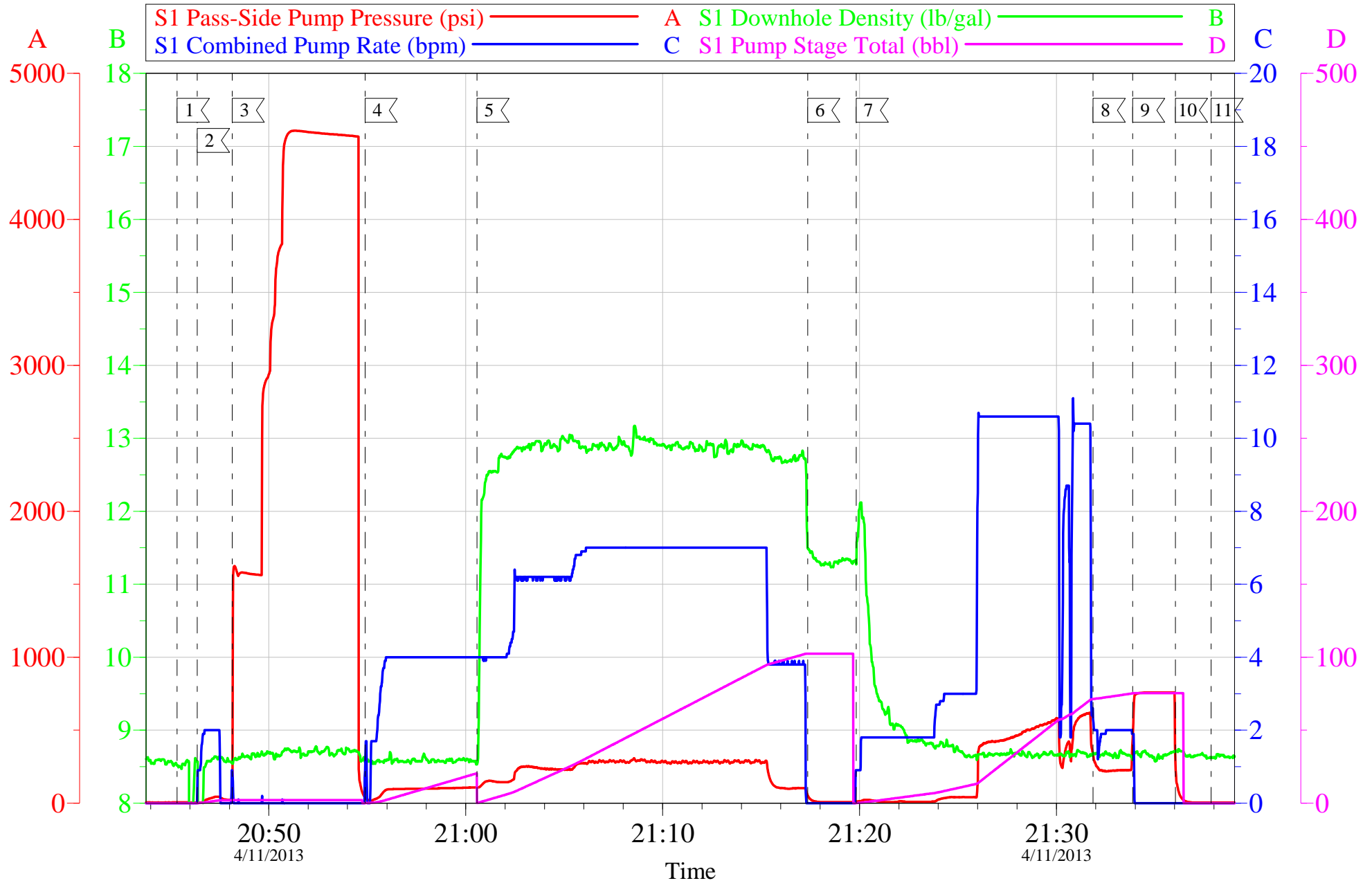
Job Date: 11-Apr-2013  
Job Type: SURFACE  
Cement Supervisor: CHRIS KUKUS

Sales Order #: 900353922  
ADC Used: YES  
Elite # 4: BEN ROSE

OptiCem v6.4.10  
11-Apr-13 22:05

# WPX ENERGY / PA 343-2

9 5/8 SURFACE



Customer: WPX ENERGY	Job Date: 11-Apr-2013	Sales Order #: 900353922
Well Description: PA 343-2	Job Type: SURFACE	ADC Used: YES
Company Rep: GARY VALAD	Cement Supervisor: CHRIS KUKUS	Elite # 4: BEN ROSE

OptiCem v6.4.10  
11-Apr-13 22:06

# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: CHRIS KUKUS

Attention: J. TROUT/C.MARTINEZ

Lease PA

Well # 343-2

Date: 4/11/2013

Date Rec.: 4/11/2013

S.O.# 900353922

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>0</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>54</b> Deg
Total Dissolved Solids		<b>330</b> Mg / L

Respectfully: CHRIS KUKUS

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> 900353922	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/11/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> GARY VALAD		<b>API / UWI: (leave blank if unknown)</b> 05-045-20892
<b>Well Name:</b> PA		<b>Well Number:</b> 343-2
<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	4/11/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER KUKUS (HX35027)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	GARY VALAD
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	GREAT JOB THANKS !

<b>CUSTOMER SIGNATURE</b>
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<b>Sales Order #:</b> 900353922	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/11/2013
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<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	4/11/2013

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.	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.	1.5
<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

<b>Sales Order #:</b> 900353922	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/11/2013
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<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	90
<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	90
<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