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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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PA 421-27  
Parachute  
Garfield County , Colorado

**Cement Surface Casing**  
31-Jul-2013

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 3012224	<b>Quote #:</b>	<b>Sales Order #:</b> 900619113
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> Sampson, Harry	
<b>Well Name:</b> PA		<b>Well #:</b> 421-27	<b>API/UWI #:</b> 05-045-21860
<b>Field:</b> Parachute	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.497 deg. OR N 39 deg. 29 min. 48.084 secs.		<b>Long:</b> W 107.989 deg. OR W -108 deg. 0 min. 39.136 secs.	
<b>Contractor:</b> Nabors		<b>Rig/Platform Name/Num:</b> Nabors 573	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> MAYO, MARK		<b>Srvc Supervisor:</b> CARTER, ERIC	<b>MBU ID Emp #:</b> 345598

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CARTER, ERIC Earl	0.0	345598	LINN, PAUL Andrew	0.0	479143	SINCLAIR, DAN J	0.0	338784

**Equipment**

HES Unit #	Distance-1 way						
10025118	60 mile	10296152C	60 mile	11360881	60 mile	11583933	60 mile
11808839	60 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
<b>TOTAL</b>								
<i>Total is the sum of each column separately</i>								

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Form Type</b>	BHST			<b>On Location</b>	31 - Jul - 2013	00:30	MST
<b>Job depth MD</b>	2786.5 ft	<b>Job Depth TVD</b>		<b>Job Started</b>	31 - Jul - 2013	05:06	MST
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>		<b>Job Completed</b>	31 - Jul - 2013	07:13	MST
<b>Perforation Depth (MD)</b>	<i>From</i>	<i>To</i>		<b>Departed Loc</b>	31 - Jul - 2013	08:30	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
OPEN HOLE				13.5				.	2806.	.	2806.
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	2400.	.	2400.
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	2400.	2786.5		

**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**

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		40.00	bbl	8.33	.0	.0	.0	
2	VariCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	480.0	sacks	12.3	2.38	13.75		13.75
13.75 Gal		FRESH WATER							
3	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75		11.75
11.746 Gal		FRESH WATER							
4	Displacement Fluid		215.00	bbl	8.34	.0	.0	10.0	
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	37.4 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					

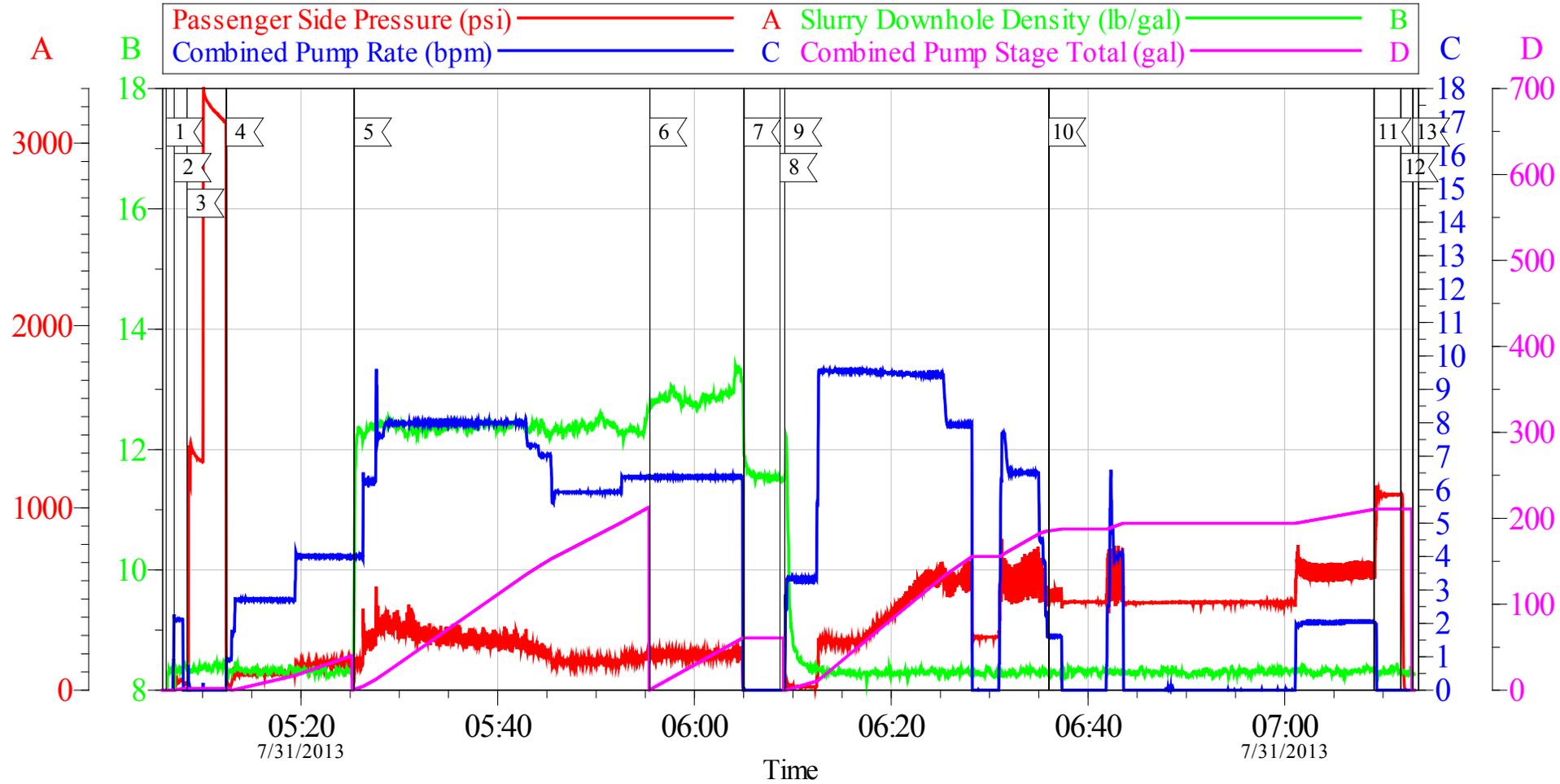
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<b>Well Name:</b> PA		<b>Well #:</b> 421-27	<b>API/UWI #:</b> 05-045-21860
<b>Field:</b> Parachute	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.497 deg. OR N 39 deg. 29 min. 48.084 secs.		<b>Long:</b> W 107.989 deg. OR W -108 deg. 0 min. 39.136 secs.	
<b>Contractor:</b> Nabors		<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> CARTER, ERIC	<b>MBU ID Emp #:</b> 345598

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/30/2013 20:30							
Depart Yard Safety Meeting	07/30/2013 23:20							ATTENDED BY ALL HES CREW
Crew Leave Yard	07/30/2013 23:30							
Arrive At Loc	07/31/2013 00:30							RIG RUNNING CASING
Assessment Of Location Safety Meeting	07/31/2013 03:00							ATTENDED BY ALL HES CREW
Other	07/31/2013 03:30							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	07/31/2013 03:50							ATTENDED BY ALL HES CREW
Rig-Up Equipment	07/31/2013 04:00							
Pre-Job Safety Meeting	07/31/2013 04:30							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	07/31/2013 05:06							TP 2786.49', TD 2806', SJ 37.49', FC 2749', MW 10.3 PPG, CASING 2400'-9.625", 32.3#, H-40, 386.49'-36#, J-55, 12 CENTRALIZERS, RIG CIRCULATED BOTTOMS UP PRIOR TO JOB
Other	07/31/2013 05:07		2	2			55.0	FILL LINES
Test Lines	07/31/2013 05:08							PRESSURED UP TO 3230 PSI, PRESSURE HELD
Pump Spacer	07/31/2013 05:12		4	40			148.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	07/31/2013 05:25		8	203.5			350.0	480 SKS VARICEM MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GL/SK
Pump Tail Cement	07/31/2013 05:55		6.5	60.1			220.0	160 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK
Shutdown	07/31/2013 06:05							
Drop Top Plug	07/31/2013 06:08							PLUG LUANCHED
Pump Displacement	07/31/2013 06:09		9.5	185			620.0	FRESH WATER, HES SHUTDOWN MULTIPLE TIMES DURING DISPLACEMENT TO ALLOW VAC TRUCKS TO SWAP OUT TO TAKE RETURNS
Slow Rate	07/31/2013 06:36		2	30.5			660.0	
Bump Plug	07/31/2013 07:09						1075.0	PLUG LANDED
Check Floats	07/31/2013 07:11							FLOATS HELD
End Job	07/31/2013 07:13							GOOD CIRCULATION THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, TRACES OF CEMENT AT 100 BBLS DISPLACEMENT, 60 BBLS CEMENT TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	07/31/2013 07:15							ATTENDED BY ALL HES CREW
Rig-Down Equipment	07/31/2013 07:20							
Depart Location Safety Meeting	07/31/2013 08:20							ATTENDED BY ALL HES CREW
Crew Leave Location	07/31/2013 08:30							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

WPX-PA 421-27  
9.625" SURFACE



### Local Event Log

1	START JOB	05:06:18	2	FILL LINES	05:07:07	3	TEST LINES	05:08:25
4	PUMP SPACER	05:12:26	5	PUMP LEAD CEMENT	05:25:26	6	PUMP TAIL CEMENT	05:55:28
7	SHUTDOWN	06:05:03	8	DROP TOP PLUG	06:08:42	9	PUMP DISPLACEMENT	06:09:11
10	SLOW RATE	06:36:00	11	BUMP PLUG	07:09:07	12	CHECK FLOATS	07:11:50
13	END JOB	07:13:00						

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS  
Well Description: PA 421-27  
Company Rep: HARRY SAMPSON

Job Date: 31-Jul-2013  
Job Type: SURFACE  
Service Supervisor: ERIC CARTER

Sales Order #: 900619113  
ADC Used:  
Elite#/Operator: 9/DAN SINCLAIR

OptiCem v6.4.10  
31-Jul-13 07:57

# HALLIBURTON

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## Water Analysis Report

Company: WPX  
Submitted by: ERIC CARTER  
Attention: J.Trout  
Lease: NABORS 573  
Well #: PA 421-27

Date: 11/22/2013  
Date Rec.: 11/22/2013  
S.O.#: 900619113  
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
Hrdness	<i>500</i>	<b>425</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>250</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200</b> Mg / L
Temp	<i>40-80</i>	<b>77</b> Deg
Total Dissolved Solids		<b>520</b> Mg / L

Respectfully: ERIC CARTER

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 i

<b>Sales Order #:</b> 900619113	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 7/31/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> HARRY SAMPSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-21860
<b>Well Name:</b> PA		<b>Well Number:</b> 421-27
<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	7/31/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	ERIC CARTER (HX15491)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	HARRY SAMPSON
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	

<b>CUSTOMER SIGNATURE</b>
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<b>Well Name:</b> PA		<b>Well Number:</b> 421-27
<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>	7/31/2013
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	0
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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	5
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	3
Unplanned shutdown is when injection stops for any period of time.	
<b>Reason For Unplanned Shutdown</b>	HES WAITING FOR VAC TRUCKS TO SWAP OUT

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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Reason For Unplanned Shutdowns (after Starting To Pump)	
<b>Was this a Primary Cement Job (Yes / No)</b> Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
<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	98
<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	98
<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