
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 423-12
Parachute
Garfield County , Colorado**

Cement Surface Casing
11-Aug-2013

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3088048	Quote #:	Sales Order #: 900657831
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Wilson, W.C		
Well Name: PA	Well #: 423-12	API/UWI #: 05-045-20660	
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.452 deg. OR N 39 deg. 27 min. 7.56 secs.	Long: W 107.95 deg. OR W -108 deg. 3 min. 0.605 secs.		
Contractor: NABORS 577	Rig/Platform Name/Num: NABORS 577		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srv Supervisor: CARTER, ERIC	MBU ID Emp #: 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	MILLER II, MATTHEW Reginald	0.0	425164	SINCLAIR, DAN J	0.0	338784

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10296152C	60 mile	11021972	60 mile	11027039	60 mile	11583933	60 mile
11808849	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

Job

Formation Name					Date				Time		Time Zone					
Formation Depth (MD)		Top		Bottom		Called Out			10 - Aug - 2013		22:00		MST			
Form Type		BHST		On Location			11 - Aug - 2013		01:00		MST					
Job depth MD		821.3 ft		Job Depth TVD		821.3 ft		Job Started		11 - Aug - 2013		05:10		MST		
Water Depth		Wk Ht Above Floor		5. ft		Job Completed		11 - Aug - 2013		05:52		MST				
Perforation Depth (MD)		From		To		Departed Loc			11 - Aug - 2013		07:00		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
OPEN HOLE				13.5				.	830.		
SURFACE CASING	Unknown		9.625	9.001	32.3		J-55	.	821.2		

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

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 ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	.0	
2	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	225.0	sacks	12.8	2.11	11.75		11.75
11.75 Gal		FRESH WATER							
3	Fresh Water Displacement		61.00	bbl	8.33	.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	44.7 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					

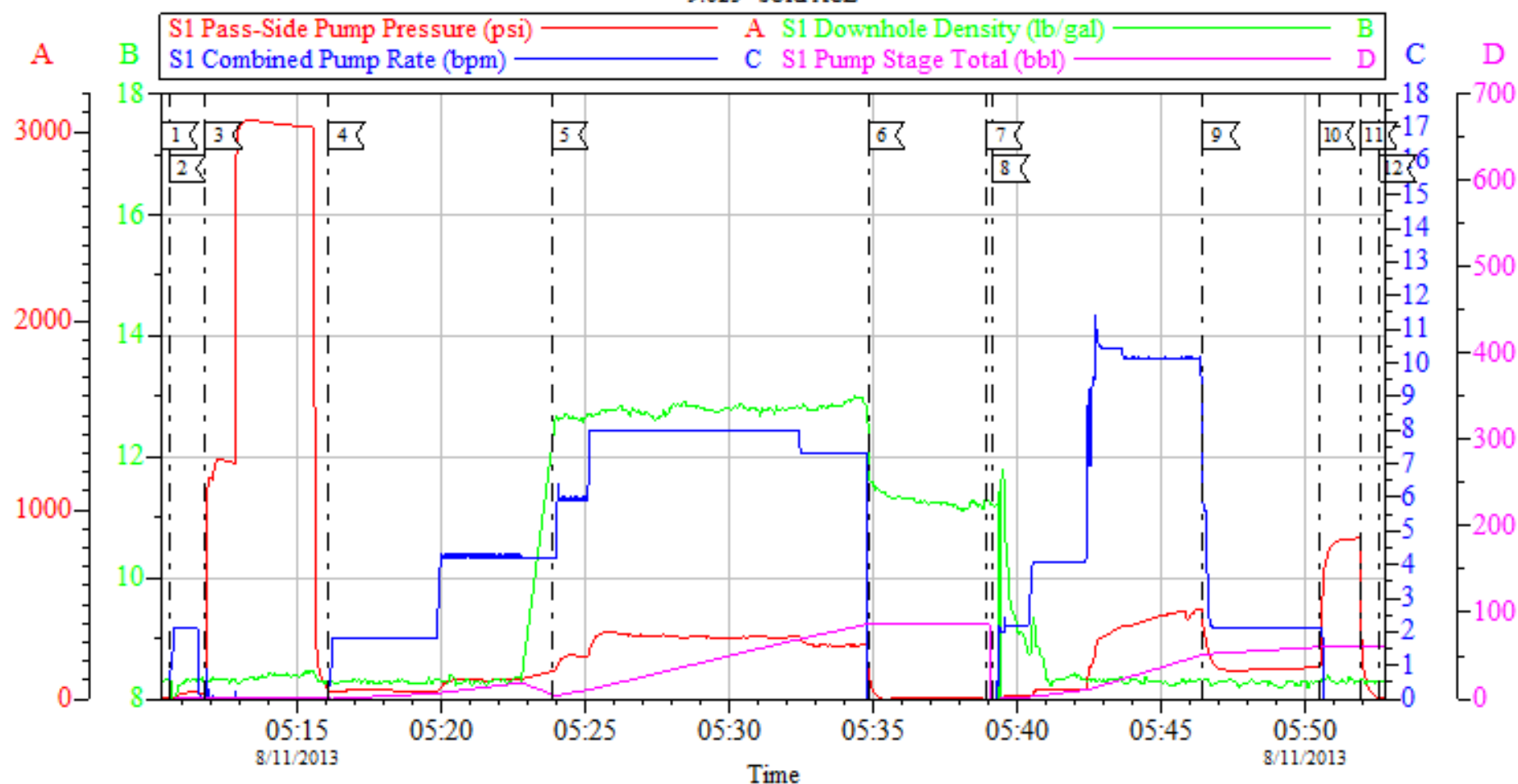
The Road to Excellence Starts with Safety

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Well Name: PA			Well #: 423-12			API/UWI #: 05-045-20660	
Field: Parachute		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.452 deg. OR N 39 deg. 27 min. 7.56 secs.				Long: W 107.95 deg. OR W -108 deg. 3 min. 0.605 secs.			
Contractor: NABORS 577			Rig/Platform Name/Num: NABORS 577				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srvc Supervisor: CARTER, ERIC			MBU ID Emp #: 345598	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/10/2013 22:00							
Depart Yard Safety Meeting	08/10/2013 23:50							ATTENDED BY ALL HES CREW
Crew Leave Yard	08/11/2013 00:00							
Arrive At Loc	08/11/2013 01:00							RIG RUNNING CASING
Assessment Of Location Safety Meeting	08/11/2013 01:10							ATTENDED BY ALL HES CREW
Other	08/11/2013 04:00							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	08/11/2013 04:10							ATTENDED BY ALL HES CREW
Rig-Up Equipment	08/11/2013 04:20							
Pre-Job Safety Meeting	08/11/2013 04:40							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	08/11/2013 05:10							TP 821.3', TD 830', SJ 44.66', FC 776.64', MW 9.2 PPG, CASING 9.625", 32.3#, J-55, HOLE 13.5", 6 CENTRALIZERS 2 TURBOLOZERS, RIG CIRCULATED FOR .5 HR'S PRIOR TO JOB AT 9 BPM
Other	08/11/2013 05:10		2	2			40.0	FILL LINES
Test Lines	08/11/2013 05:11							PRESSURED UP TO 3053 PSI, PRESSURE HELD
Pump Spacer	08/11/2013 05:16		4	20			104.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	08/11/2013 05:23		8	84.6			355.0	225 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK
Shutdown	08/11/2013 05:34							
Drop Top Plug	08/11/2013 05:38							PLUG LUANCHED
Pump Displacement	08/11/2013 05:39		10	51.1			480.0	FRESH WATER
Slow Rate	08/11/2013 05:46		2	10			166.0	
Bump Plug	08/11/2013 05:50						850.0	PLUG LANDED
Check Floats	08/11/2013 05:51							FLOATS HELD
End Job	08/11/2013 05:52							GOOD CIRCULATION THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, TRACES OF CEMENT AT 42 BBLS DISPLACEMENT, 10 BBLS GOOD CEMENT TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	08/11/2013 05:55							ATTENDED BY ALL HES CREW
Rig-Down Equipment	08/11/2013 06:00							
Depart Location Safety Meeting	08/11/2013 06:50							ATTENDED BY ALL HES CREW
Crew Leave Location	08/11/2013 07:00							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

WPX-PA 423-12
9.625" SURFACE



Local Event Log

1 START JOB	05:10:18	2 FILL LINES	05:10:34	3 TEST LINES	05:11:49
4 PUMP SPACER	05:16:05	5 PUMP TAIL CEMENT	05:23:50	6 SHUTDOWN	05:34:49
7 DROP TOP PLUG	05:38:57	8 PUMP DISPLACEMENT	05:39:09	9 SLOW RATE	05:46:27
10 BUMP PLUG	05:50:29	11 CHECK FLOATS	05:51:56	12 END JOB	05:52:36

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
Well Description: PA 423-12
Company Rep: LUKE

Job Date: 11-Aug-2013
Job Type: SURFACE
Service Supervisor: ERIC CARTER

Sales Order #: 900657831
ADC Used: YES
Eline#Operator: 9/DAN SINCLAIR

OptiCem v6.4.10
11-Aug-13 06:02

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: ERIC CARTER
Attention: J.Trout
Lease: NABORS 577
Well #: PA 423-12

Date: 10/31/2013
Date Rec.: 10/31/2013
S.O.#: 900657831
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	125 Mg / L
Hrdness	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	250 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	61 Deg
Total Dissolved Solids		480 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 use.

Sales Order #: 900657831	Line Item: 10	Survey Conducted Date: 8/11/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: LUKE H		API / UWI: (leave blank if unknown) 05-045-20660
Well Name: PA		Well Number: 423-12
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: 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	8/11/2013
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	LUKE H
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

CUSTOMER SIGNATURE

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Customer Representative: LUKE H		API / UWI: (leave blank if unknown) 05-045-20660
Well Name: PA		Well Number: 423-12
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	8/11/2013

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	2
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	1
Customer Non-Productive Rig Time (hrs) 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
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	5
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative: LUKE H		API / UWI: (leave blank if unknown) 05-045-20660
Well Name: PA		Well Number: 423-12
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate 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
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0