
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		Srvc 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						
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

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type		BHST	On Location	11 - Aug - 2013	01:00	MST
Job depth MD	821.3 ft	Job Depth TVD	Job Started	11 - Aug - 2013	05:10	MST
Water Depth		Wk Ht Above Floor	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

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	

Stage/Plug #: 1

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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						

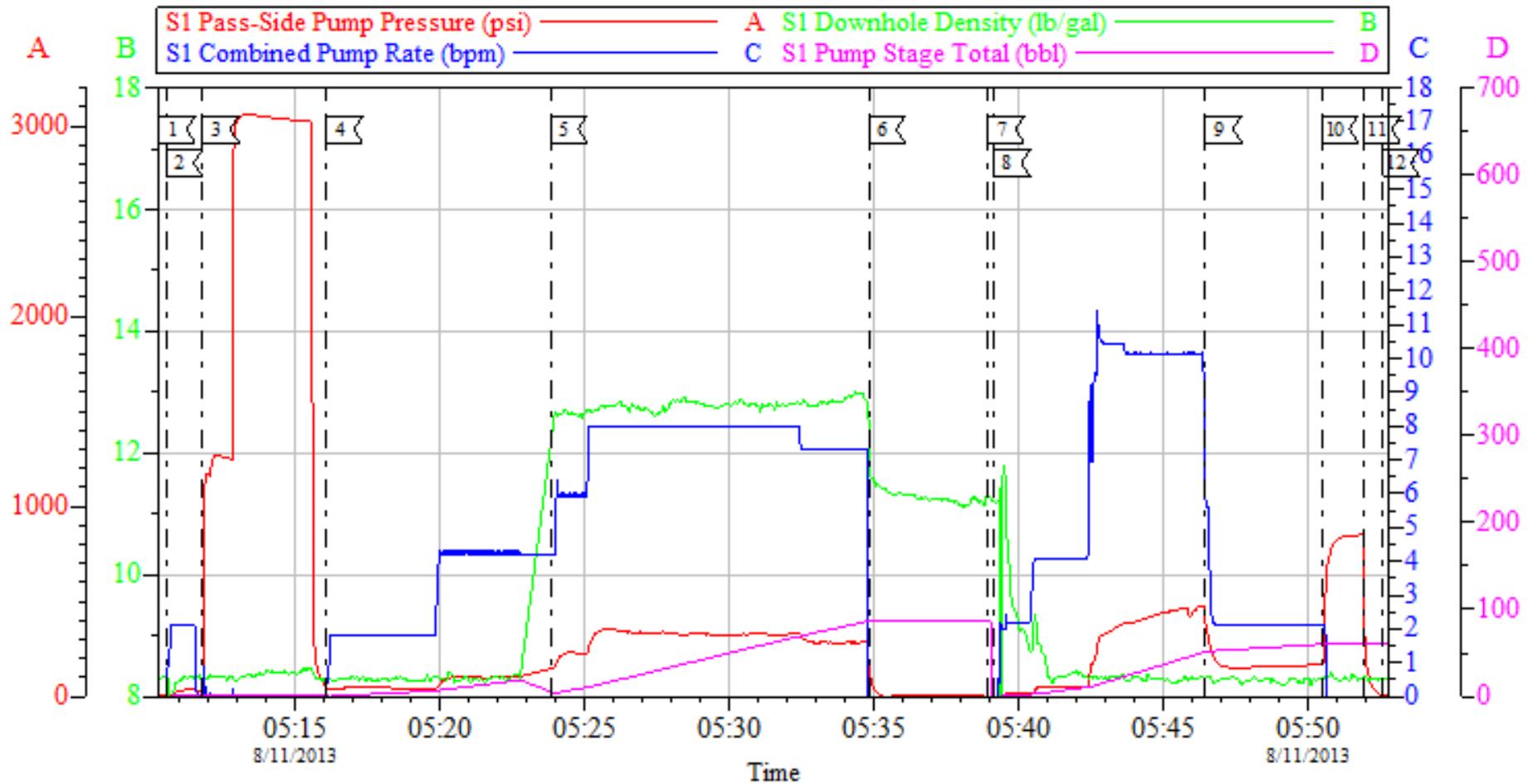
The Road to Excellence Starts with Safety

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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



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	Job Date: 11-Aug-2013	Sales Order #: 900657831
Well Description: PA 423-12	Job Type: SURFACE	ADC Used: YES
Company Rep: LUKE	Service Supervisor: ERIC CARTER	Line#/Operator: 9/DAN SINCLAIR

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 i

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	8/11/2013
The date the survey was conducted	

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

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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