
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 514-12
PARACHUTE
Garfield County , Colorado**

**Cement Surface Casing
18-Sep-2013**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3106201	Quote #:	Sales Order #: 900747587
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hubbard, Luke	
Well Name: PA		Well #: 514-12	API/UWI #: 05-045-20646
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.452 deg. OR N 39 deg. 27 min. 7.43 secs.		Long: W 107.95 deg. OR W -108 deg. 3 min. 0.342 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: ARNOLD, EDWARD	MBU ID Emp #: 439784

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	7.5	439784	LAULAINEN, ROGER Edward	7.5	524413	REEVES, BRANDON W	7.5	287883

Equipment

HES Unit #	Distance-1 way						
10616651C	60 mile	10867423	60 mile	10951249	60 mile	11562538	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
2013-09-17	5.5	2.5	2013-09-18	2	1.5			

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
			On Location	17 - Sep - 2013	14:30	MST
Form Type		BHST	Job Started	17 - Sep - 2013	18:30	MST
Job depth MD	1147. ft	Job Depth TVD	1147. ft	Job Completed	17 - Sep - 2013	23:34
Water Depth		Wk Ht Above Floor	3. ft	Job Completed	18 - Sep - 2013	00:32
Perforation Depth (MD)	From	To	Departed Loc	18 - Sep - 2013	02:00	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

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					Bridge Plug					Bottom Plug			
Float Collar					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

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

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	4	
2	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	325.0	sacks	12.8	2.11	11.75	7	11.75
11.75 Gal		FRESH WATER							
3	Fresh Water Displacement		86.00	bbl	.	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	85.9	Shut In: Instant		Lost Returns		Cement Slurry	122.1	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	85.9	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	228
Rates									
Circulating	RIG	Mixing	7	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	45 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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Well Name: PA		Well #: 514-12	API/UWI #: 05-045-20646
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.452 deg. OR N 39 deg. 27 min. 7.43 secs.		Long: W 107.95 deg. OR W -108 deg. 3 min. 0.342 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: ARNOLD, EDWARD	MBU ID Emp #: 439784

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/17/2013 14:30							
Pre-Convoy Safety Meeting	09/17/2013 16:15							Including entire cement crew.
Crew Leave Yard	09/17/2013 16:30							
Arrive At Loc	09/17/2013 18:30							Rig still pulling drill pipe.
Assessment Of Location Safety Meeting	09/17/2013 18:40							Water; PH 7.5; KCL 250; So4 <200; Fe 0; Calcium 120; Chlorides 0; Temp 60; TDS 340.
Pre-Rig Up Safety Meeting	09/17/2013 18:50							Including entire cement crew.
Rig-Up Equipment	09/17/2013 19:00							1 Elite # 4; 1 660 bulk truck; 1 hard line to floor; 1 line to upright; 1 line to rig tank. 9.625" compact head.
Rig-Up Completed	09/17/2013 19:30							
Pre-Job Safety Meeting	09/17/2013 23:20							Including everyone on location.
Start Job	09/17/2013 23:34							TD 1147; TP 1137; SJ 45; OH 13 1/2"; Casing 9.625" 32.3# H-40; Mud 9.6 ppg.
Pump Water	09/17/2013 23:35		2	2			30.0	Fill lines with fresh water.
Test Lines	09/17/2013 23:37					2900.0		Good pressure test, no leaks.
Pump Spacer 1	09/17/2013 23:44		4	20			100.0	20 BBL fresh water spacer.
Pump Tail Cement	09/17/2013 23:52		7	122.1			280.0	325 sks Tail Cement, 12.8 ppg, 2.11 cf3, 11.75 gal/sk.

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Quote # :

Sales Order # : 900747587

SUMMIT Version: 7.3.0106

Sunday, September 29, 2013 02:51:00

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	09/18/2013 00:11							
Drop Plug	09/18/2013 00:13							Plug left container.
Pump Displacement	09/18/2013 00:14		10	75.9			620.0	Fresh water displacement.
Slow Rate	09/18/2013 00:24		2	10			256.0	Slow rate 10 BBL's prior to bumping the plug.
Bump Plug	09/18/2013 00:29				85.9		600.0	Bumped plug, took 500 PSI over.
Check Floats	09/18/2013 00:30							Floats held, 1/2 BBL back. 20 BBL.'s good cement to surface.
End Job	09/18/2013 00:32							
Pre-Rig Down Safety Meeting	09/18/2013 00:35							Including entire cement crew.
Rig-Down Equipment	09/18/2013 00:40							
Rig-Down Completed	09/18/2013 01:30							
Pre-Convoy Safety Meeting	09/18/2013 01:45							Including entire cement crew.
Crew Leave Location	09/18/2013 02:00							Crew leave location for Service Center or another location.
Other	09/18/2013 02:00							Thank You for using Halliburton. Ed Arnold and Crew.

1.0 Real-Time Job Summary

1.1 Stage Summary - Liquid Volume, Density, & Design Shutdown

1.2 Stage Summary - Pump Pressure & ECD

1.3 Stage Summary - Pump Rate & Nitrogen Rate

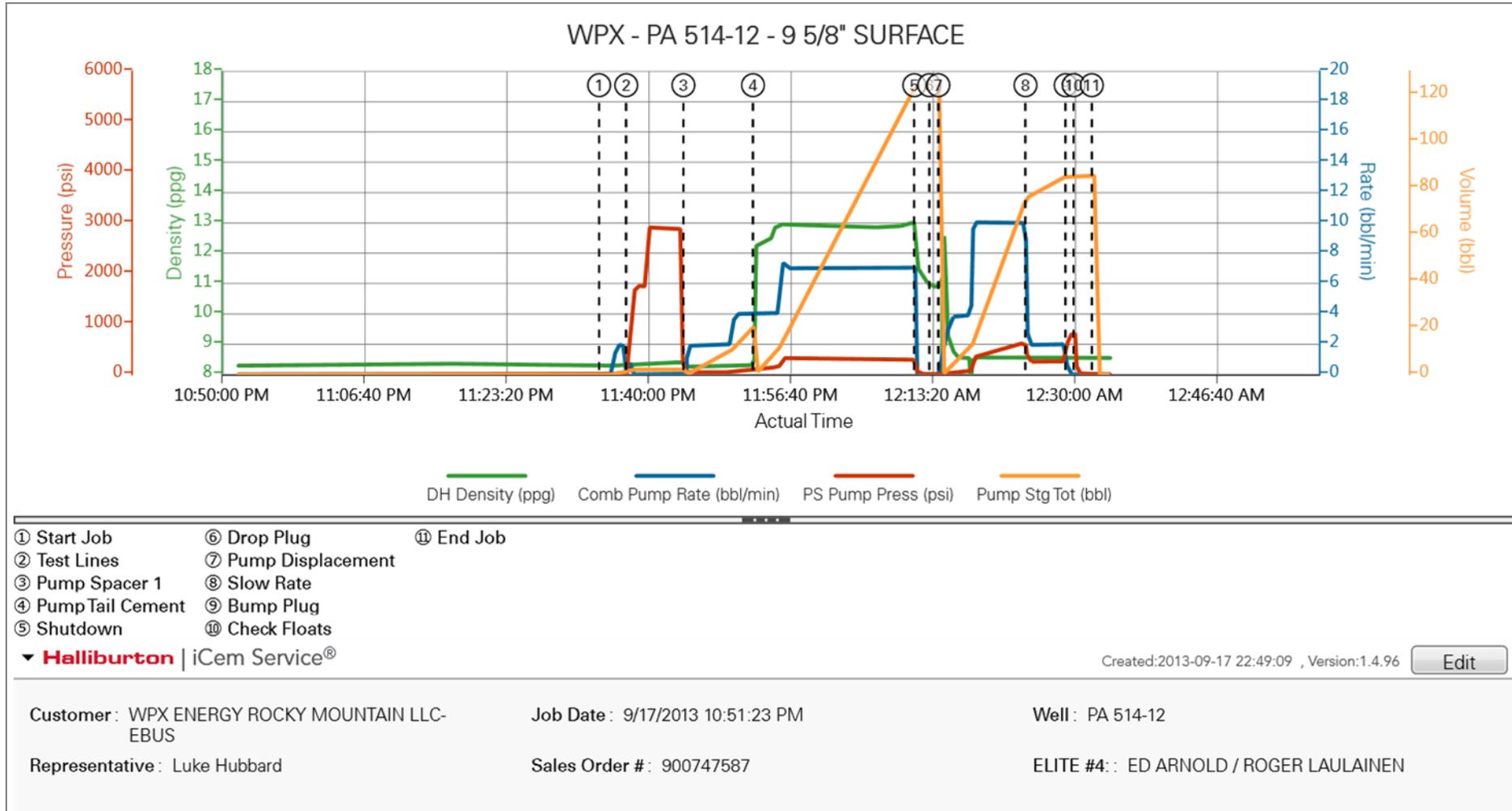
1.4 Shutdown Summary

1.5 Job Event Log

Time	Description	Graph Label	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pass-Side Pump Pressure (psi)	Pump Stage Total (bbl)	Comment
11:34:24	Start Job	Start Job	8.32	0.00	0.00	0.00	
11:37:35	Test Lines	Test Lines	8.33	0.00	11.00	2.00	
11:44:17	Pump Spacer 1	Pump Spacer 1	8.20	0.00	36.00	0.00	
11:52:27	Pump Tail Cement	Pump Tail Cement	11.56	4.00	118.00	0.10	
12:11:22	Shutdown	Shutdown	11.86	0.00	103.00	123.90	
12:13:07	Drop Plug	Drop Plug	10.90	0.00	6.00	123.90	
12:14:11	Pump Displacement	Pump Displacement	10.95	0.00	6.00	0.00	
12:24:25	Slow Rate	Slow Rate	8.52	1.80	310.00	76.20	
12:29:07	Bump Plug	Bump Plug	8.57	0.00	692.00	85.30	
12:30:04	Check Floats	Check Floats	8.54	0.00	345.00	85.30	
12:32:11	End Job	End Job	8.51	0.00	1.00	85.30	

2.0 Custom Graphs

2.1 Custom Graph



HALLIBURTON

Water Analysis Report

Company:	<u>WPX</u>	Date:	<u>9/17/2013</u>
Submitted by:	<u>ED ARNOLD</u>	Date Rec.:	<u>9/18/2013</u>
Attention:	<u>JOHN TROUT</u>	S.O.#	<u>900747587</u>
Lease	<u>PA</u>	Job Type:	<u>SURFACE</u>
Well #	<u>514-12</u>		

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7.5
Potassium (K)	<i>5000</i>	250 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	60 Deg
Total Dissolved Solids		340 Mg / L

Respectfully: ED ARNOLD
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 #: 900747587	Line Item: 10	Survey Conducted Date: 9/18/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: LUKE HUBBARD		API / UWI: (leave blank if unknown) 05-045-20646
Well Name: PA		Well Number: 514-12
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	9/18/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD ARNOLD (HX46731)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	LUKE HUBBARD
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 HUBBARD		API / UWI: (leave blank if unknown) 05-045-20646
Well Name: PA		Well Number: 514-12
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	9/18/2013
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)	3.5
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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Customer Representative: LUKE HUBBARD		API / UWI: (leave blank if unknown) 05-045-20646
Well Name: PA		Well Number: 514-12
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	95
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	99
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