
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 21-27
PARACHUTE
Garfield County , Colorado**

**Cement Surface Casing
05-Sep-2013**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3098787	Quote #:	Sales Order #: 900703593
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Towers, Ron		
Well Name: PA	Well #: 21-27	API/UWI #: 05-045-21862	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.497 deg. OR N 39 deg. 29 min. 48.383 secs.	Long: W 107.989 deg. OR W -108 deg. 0 min. 39.11 secs.		
Contractor: Nabors	Rig/Platform Name/Num: Nabors 573		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srv Supervisor: KEANE, JOHN	MBU ID Emp #: 486519	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	0.0	371353	KEANE, JOHN Donovon	0.0	486519	MCINTOSH, ROBERT James	0.0	547652
SMITH, DUSTIN Michael	0.0	418015						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10867304	60 mile	10867423	60 mile	11071559	60 mile
11259881	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

TOTAL	Total is the sum of each column separately							
-------	--	--	--	--	--	--	--	--

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	05 - Sep - 2013	12:30	MST
Form Type		BHST	Job Started	05 - Sep - 2013	18:11	MST
Job depth MD	2924. ft	Job Depth TVD	2924. ft	Job Completed	05 - Sep - 2013	19:42
Water Depth		Wk Ht Above Floor	6. ft	Departed Loc	05 - Sep - 2013	21:00
Perforation Depth (MD)	From	To				

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			
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	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									
1	Fresh Water Spacer		20.00	bbl	8.33	.0	.0	.0	
2	VersaCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	475.0	sacks	12.3	2.38	13.75		13.75
	13.75 Gal	FRESH WATER							
3	VersaCemGJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75		11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		227.00	bbl	8.34	.0	.0	.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	0 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

Sold To #: 300721		Ship To #: 3098787		Quote #:		Sales Order #: 900703593	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Towers, Ron			
Well Name: PA			Well #: 21-27			API/UWI #: 05-045-21862	
Field: PARACHUTE		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.497 deg. OR N 39 deg. 29 min. 48.383 secs.				Long: W 107.989 deg. OR W -108 deg. 0 min. 39.11 secs.			
Contractor: Nabors			Rig/Platform Name/Num: Nabors 573				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srvc Supervisor: KEANE, JOHN			MBU ID Emp #: 486519	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/05/2013 08:00							
Pre-Convoy Safety Meeting	09/05/2013 11:00							WITH HES
Arrive At Loc	09/05/2013 12:30							RIG RUNNING CASING UPON HES ARRIVAL, HES EQUIPMENT STAGED OFF LOCATION AT 1230
Assessment Of Location Safety Meeting	09/05/2013 12:40							WITH HES
Pre-Rig Up Safety Meeting	09/05/2013 16:30							WITH HES
Rig-Up Equipment	09/05/2013 16:45							
Pre-Job Safety Meeting	09/05/2013 18:00							WITH HES, WPX, AND NABORS 573
Start Job	09/05/2013 18:11							TP 2930 FT, TD 2940 FT, SHOE DEPTH 2924 FT, SHOE 41 FT, CSG 9.625 IN 32.3 LB/FT H-40, HOLE 13.5 IN, MWT 10.4 LB/GAL , RIG CIRCULATING AT 16.0 BBL/MIN, PASON GAS AT 36 UNITS
Pump Water	09/05/2013 18:14		2	2			120.0	FILL LINES
Test Lines	09/05/2013 18:16							LOW TEST AT 1828 PSI, HIGH TEST AT 3545 PSI, PRESSURE HOLDING
Pump Spacer	09/05/2013 18:22		4	40			204.0	FRESH WATER SPACER AT 8.4 LB/GAL

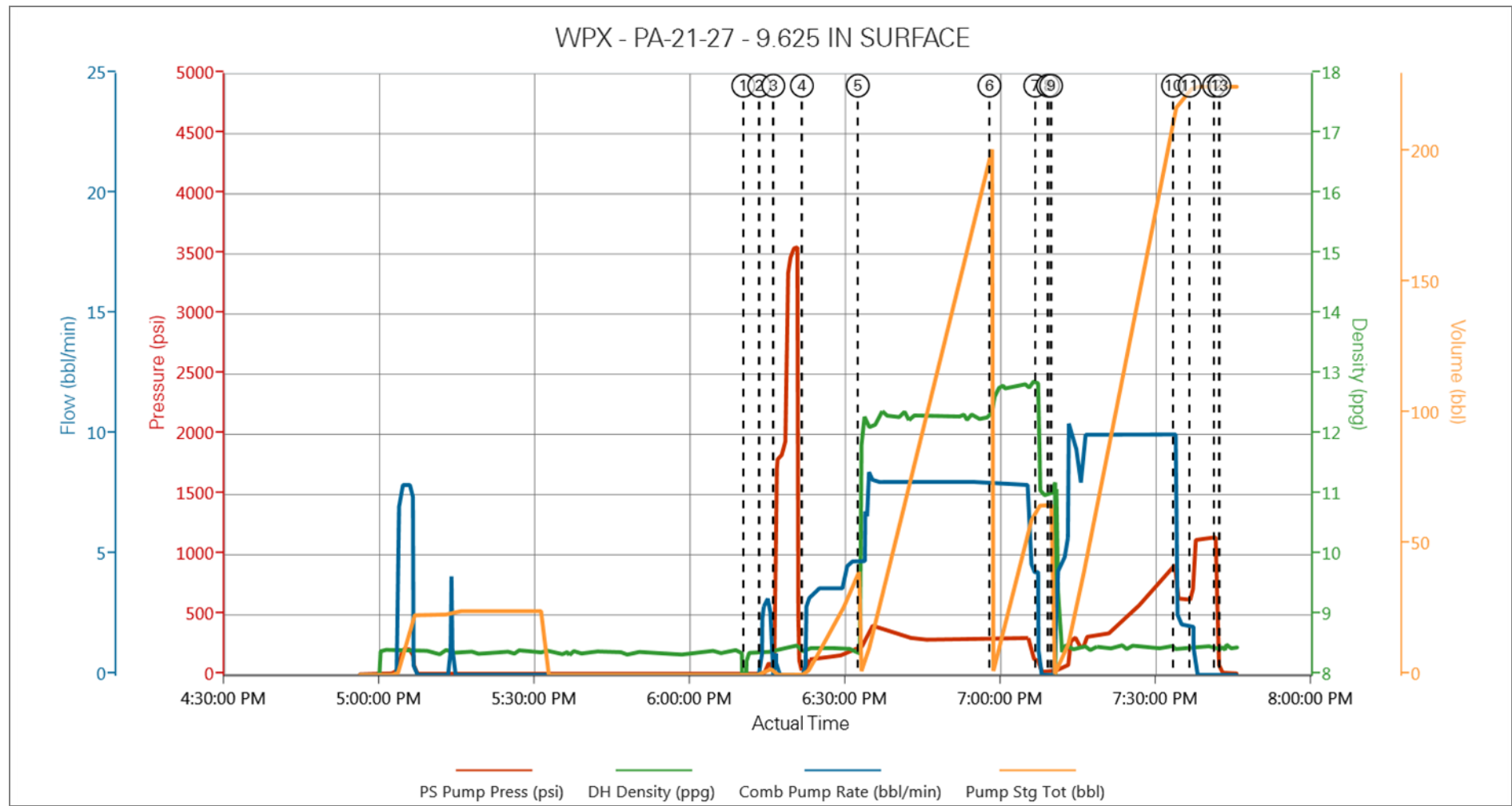
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	09/05/2013 18:33		8	201.3			422.0	MIXED AT 12.3 LB/GAL, 475 SKS, 2.38 FT3/SK, 13.75 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Pump Tail Cement	09/05/2013 18:58		8	60.1			300.0	MIXED AT 12.8 LB/GAL, 160 SKS, 2.11 FT3/SK, 11.75 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Shutdown	09/05/2013 19:07						209.0	
Drop Plug	09/05/2013 19:09							PLUG LAUNCHED
Pump Displacement	09/05/2013 19:10		10	217			920.0	FRESH WATER
Slow Rate	09/05/2013 19:34		2	10			630.0	SLOWED AT 217 BBL AWAY
Bump Plug	09/05/2013 19:37		2				650.0	PLUG BUMPED AT CALCULATED DISPLACEMENT
Check Floats	09/05/2013 19:41						1120.0	FLOATS HOLDING, 1 BBL RETURNED TO THE TRUCK
End Job	09/05/2013 19:42							GOOD CIRCULATION THROUGHOUT THE JOB, PIPE WAS RECIPROCATED THROUHGOUT THE JOB, 15 BBL CEMENT CIRCULATED TO SURFACE, RIG USED NO SUGAR, NO ADD HOURS CHARGED, NO DERRICK CHARGE
Post-Job Safety Meeting (Pre Rig-Down)	09/05/2013 19:50							WITH HES
Rig-Down Equipment	09/05/2013 20:00							
Pre-Convoy Safety Meeting	09/05/2013 20:30							WITH HES
Crew Leave Location	09/05/2013 21:00							
Comment	09/05/2013 21:01							THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

1.5 Job Event Log

Time	Description	Graph Label	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comment
06:11:01	Start Job	Start Job	9.00	8.31	0.00	0.00	
06:14:06	Prime Pumps	Fill Lines	9.00	8.36	2.80	0.60	
06:16:49	Test Lines	Test Lines	1778.00	8.40	0.00	0.00	
06:22:21	Pump Spacer 1	Fresh Water	29.00	8.42	1.80	0.20	
06:33:09	Pump Lead Cement	Pump Lead Cement	243.00	12.01	4.70	1.90	
06:58:34	Pump Tail Cement	Pump Tail Cement	305.00	12.55	8.00	1.50	
07:07:25	Shutdown	Shutdown	59.00	11.36	0.00	65.00	
07:09:53	Drop Top Plug	Drop Top Plug	19.00	11.01	0.00	0.00	
07:10:29	Pump Displacement	Pump Displacement	21.00	11.14	1.90	0.10	
07:34:02	Slow Rate	Slow Rate	724.00	8.49	4.70	218.10	
07:37:14	Bump Plug	Bump Plug	990.00	8.49	2.00	224.90	
07:41:58	Check Floats	Check Floats	319.00	8.52	0.00	225.00	
07:42:59	End Job	End Job	13.00	8.43	0.00	225.00	

2.0 Custom Graphs

2.1 Custom Graph



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: JOHN KEANE
Attention: CHUCK ROSS
Lease: PA
Well #: 21-27

Date: 9/5/2013
Date Rec.: 9/5/2013
S.O.#: 900703593
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	15 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	200 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	68 Deg
Total Dissolved Solids		560 Mg / L

Respectfully: JOHN KEANE

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

Sales Order #: 900703593	Line Item: 10	Survey Conducted Date: 9/6/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RON TOWERS		API / UWI: (leave blank if unknown) 05-045-21862
Well Name: PA		Well Number: 21-27
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	9/6/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JOHN KEANE (HB58526)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RON TOWERS
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	

CUSTOMER SIGNATURE

Sales Order #: 900703593	Line Item: 10	Survey Conducted Date: 9/6/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RON TOWERS		API / UWI: (leave blank if unknown) 05-045-21862
Well Name: PA		Well Number: 21-27
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	9/6/2013

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.	4
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.	2
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	6
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

Sales Order #: 900703593	Line Item: 10	Survey Conducted Date: 9/6/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RON TOWERS		API / UWI: (leave blank if unknown) 05-045-21862
Well Name: PA		Well Number: 21-27
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	96
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	95
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