HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 43-21
PARACHUTE
Garfield County , Colorado

Cement Surface Casing

Post Job Report

SUMMIT Version: 7.3.0109 Wednesday, January 29, 2014 09:20:00

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 3280391	**Quote #:**	**Sales Order #:** 901043673
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:**	
Well Name: PA	**Well #:** 43-21		**API/UWI #:**
Field: PARACHUTE	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
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	**Srvc Supervisor:** BRENNECKE, ANDREW	**MBU ID Emp #:** 486345	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRENNECKE, ANDREW Bailey	6	486345	LAULAINEN, ROGER Edward	6	524413	PONDER, THOMAS Lynn	6	427112
YENTER, TRAVIS Drake	6	556030						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10025118	60 mile	10296152C	60 mile	10744549	60 mile	11139330	60 mile
11360881	60 mile	11583931	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
1/16/2014	6	1.5						
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	1861. ft	**Job Depth TVD**	1861. ft
Water Depth		**Wk Ht Above Floor**	
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	1/16/2014	04:00	MTN
On Location	1/16/2014	08:30	MTN
Job Started	1/16/2014	10:42	MTN
Job Completed	1/16/2014	11:57	MTN
Departed Loc	1/16/2014	13:00	MTN

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	9.625	1		1861	**Packer**					**Top Plug**	9.625	1	HES
Float Shoe					**Bridge Plug**					**Bottom Plug**			
Float Collar	9.625	1		1815	**Retainer**					**SSR plug set**			
Insert Float										**Plug Container**	9.625	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 lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

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Cementing Job Summary

Stage/Plug #: 1										
1	Fresh Water Spacer		20.00	bbl	8.33	.0	.0	4	
2	VersaCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	310.0	sacks	12.3	2.38	13.75	8	13.75
	13.75 Gal	FRESH WATER							
3	VersaCemGJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	175.0	sacks	12.8	2.11	11.75	8	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid			bbl	8.34	.0	.0	10	

Calculated Values		Pressures		Volumes					
Displacement	142	Shut In: Instant		Lost Returns		*Cement Slurry*	196	Pad	
Top Of Cement	SURF	5 Min		Cement Returns	60	Actual Displacement	142	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	358

Rates							
Circulating		*Mixing*	8	*Displacement*	10	Avg. Job	8

Cement Left In Pipe	Amount	*46.52 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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Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 3280391	**Quote #:**	**Sales Order #:** 901043673
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:**	
Well Name: PA	**Well #:** 43-21		**API/UWI #:**
Field: PARACHUTE	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat:		**Long:**	
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:** BRENNECKE, ANDREW		**MBU ID Emp #:** 486345

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl Stage	Volume bbl Total	Pressure psig Tubing	Pressure psig Casing	Comments
Call Out	01/16/2014 04:00							
Pre-Convoy Safety Meeting	01/16/2014 06:45							ALL HES PERSONEL
Crew Leave Yard	01/16/2014 07:00							
Arrive At Loc	01/16/2014 08:30							RIG HAD FINISHED RUNNING CASING. TRUCKS STAGED AT BOTTOM OF LOCATION UNTIL A.O. WAS CLEAR
Assessment Of Location Safety Meeting	01/16/2014 09:00							ALL HES PERSONEL
Rig-Up Equipment	01/16/2014 09:30							1-ELITE, 2-660 BULK TRUCKS, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH
Rig-Up Completed	01/16/2014 10:00							
Pre-Job Safety Meeting	01/16/2014 10:15							ALL HES PERSONEL AND RIG CREW
Start Job	01/16/2014 10:42							TD-1872', TP-1861', SJ-46.52', FC-18414.48', OH-13.5, CSG-9.625", 32.3#, H-40, MUD-10.5 PPG
Pump Water	01/16/2014 10:44		2	2			62.0	FILL LINES
Pressure Test	01/16/2014 10:46		0.5	0.5				PRESSURE TEST LINES WITH 3138 PSI
Pump Spacer	01/16/2014 10:54		4	20			150.0	FRESH WATER

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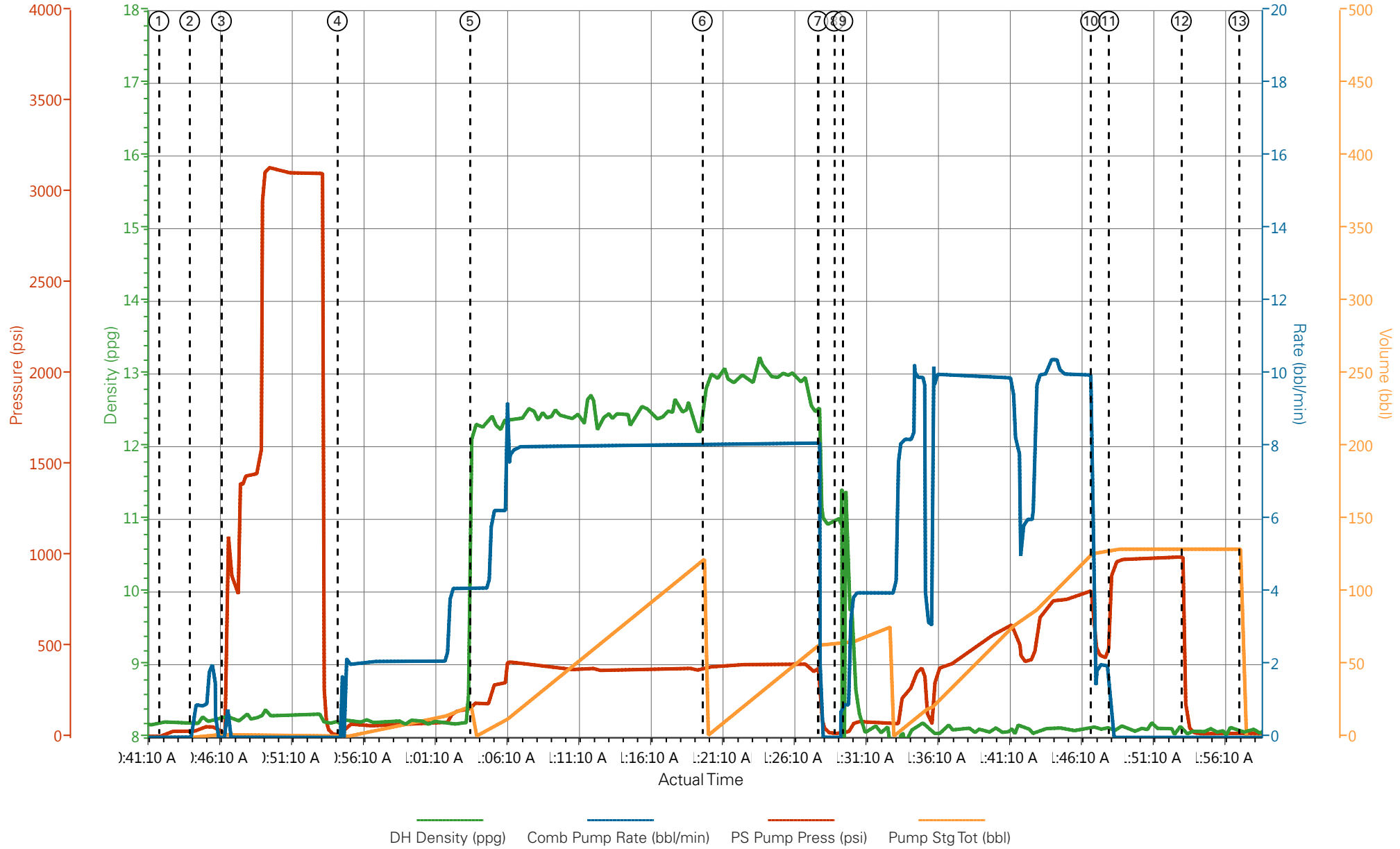
Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	01/16/2014 11:03		8	131.4			405.0	310 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK
Pump Tail Cement	01/16/2014 11:19		8	65.8			407.0	175 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Shutdown	01/16/2014 11:28							
Drop Plug	01/16/2014 11:29							PLUG DROP VERIFIED BY CUSTOMER
Pump Displacement	01/16/2014 11:30		10	132			792.0	FRESH WATER. HAD TO SLOW DOWN FOR DREDGE PUMPS TO KEEP UP WITH DISPLACEMENT.
Slow Rate	01/16/2014 11:47		2	10			450.0	
Bump Plug	01/16/2014 11:48						455.0	ALL HES PERSONEL
Check Floats	01/16/2014 11:53						980.0	FLOATS HELD/ .5 BBLS FLOW BACK TO DISPLACEMENT TANK
End Job	01/16/2014 11:56							GOOD RETURNS THROUGH OUT JOB. 60 BBL CEMENT BACK TO SURFACE
Other	01/16/2014 12:00							THANK YOU FOR YOUR BUSINESS FROM ANDREW BRENNECKE AND CREW

WPX - PA 43-21 - 9.625'' SURFACE



① Start Job 8.22;0;6;0 ② Prime Pumps 8.24;0.1;37;0 ③ Test Lines 8.29;0;22;1.9 ④ Pump Spacer 1 8.17;0;17;0 ⑤ Pump Lead Cement 12.32;4.1;184;22.2 ⑥ Pump Tail Cement 12.81;8.1;377;0.1 ⑦ Shu

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Created: 2014-01-16 10:06:46, Version: 3.0.121 Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 1/16/2014 10:07:29 AM

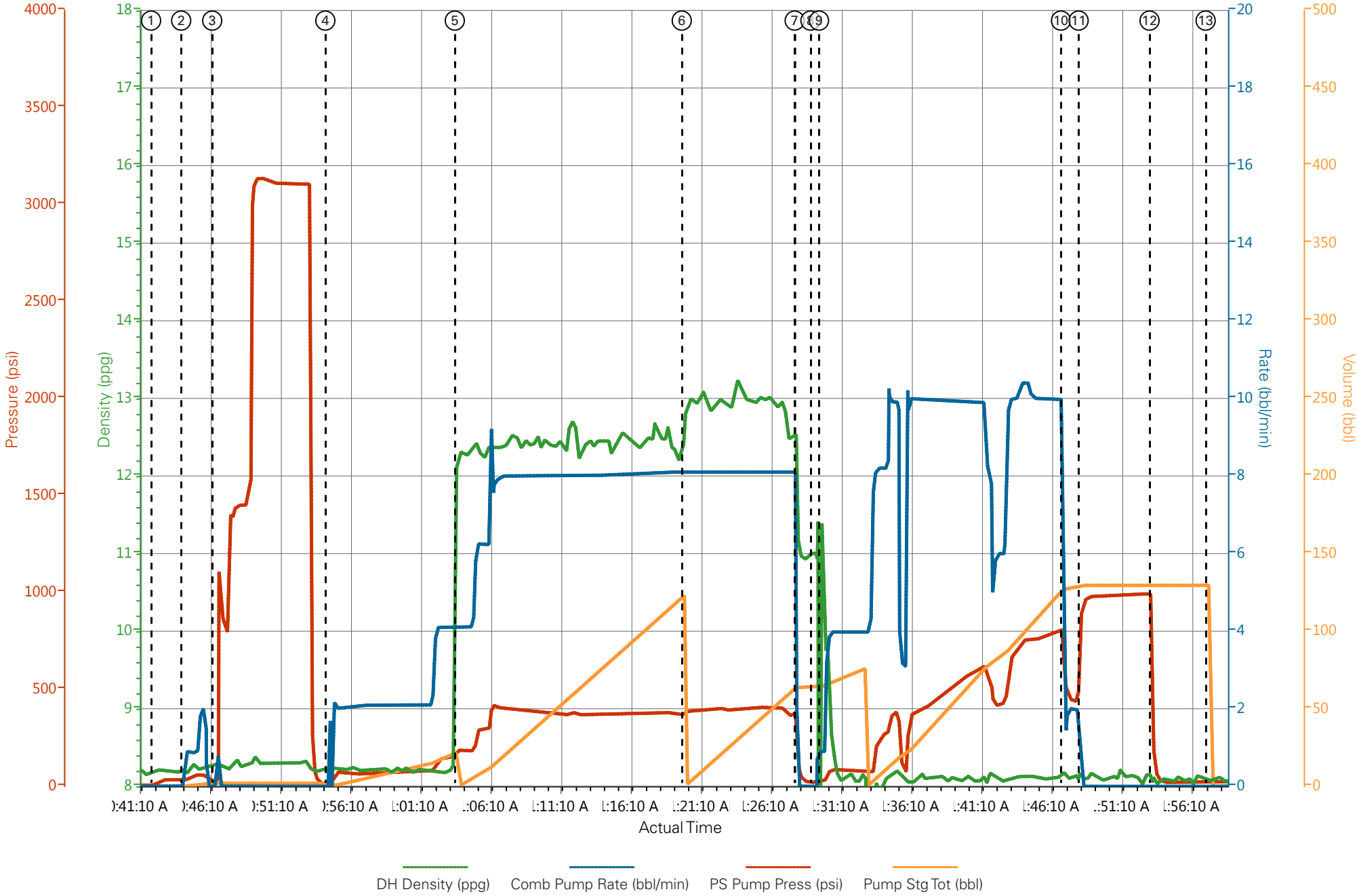
Well : PA 43-21

Representative : BEAUDE OAKS

Sales Order # : 901043673

ELITE#9 : R.LAULAINEN/A.BRENNECKE

WPX - PA 43-21 - 9.625'' SURFACE



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Job Date : 1/16/2014 10:07:29 AM

Well : PA 43-21

Representative : BEAUDE OAKS

Sales Order # : 901043673

ELITE#9 : R.LAULAINEN/A.BRENNECKE

HALLIBURTON

Water Analysis Report

Company:	WPX	**Date:**	1/16/2014
Submitted by:	A.BRENNECKE	**Date Rec.:**	1/16/2014
Attention:	C.ROSS	**S.O.#**	901043673
Lease	PA	**Job Type:**	SURFACE
Well #	43-21		

Specific Gravity	*MAX*	1	
pH	*8*	8	
Potassium (K)	*5000*	200	Mg / L
Calcium (Ca)	*500*	250	Mg / L
Iron (FE2)	*300*	0	Mg / L
Chlorides (Cl)	*3000*	0	Mg / L
Sulfates (SO_4)	*1500*	<200	Mg / L
Chlorine (Cl_2)		0	Mg / L
Temp	*40-80*	52	Deg
Total Dissolved Solids		210	Mg / L

Respectfully: A.BRENNECKE

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 o

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
901043673	10	1/16/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
BEAUDE OAKS		AFEYSCS4HKKWO01MAAA
Well Name:		**Well Number:**
PA		43-21
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Garfield

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. I 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 as possible to ensure we constantly improve our service. Your comments are of great value to are intended for the exclusive use of Halliburton.

CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	**The date the survey was conducted**	**1/16/2014**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**ANDREW BRENNECKE (HB58348)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**BEAUDE OAKS**
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

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
901043673	10	1/16/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
BEAUDE OAKS		AFEYSCS4HKKWO01MAAA
Well Name:		**Well Number:**
PA		43-21
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	1/16/2014

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	7
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 SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
901043673	10	1/16/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
BEAUDE OAKS		AFEYSCS4HKKWO01MAAA
Well Name:		**Well Number:**
PA		43-21
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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 cment 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	8
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