
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 31-21
PARACHUTE
Garfield County , Colorado**

**Cement Surface Casing
06-Feb-2014**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3123604		Quote #:		Sales Order #: 901092472	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Tower, Ron			
Well Name: PA			Well #: 31-21		API/UWI #: 05-045-22039		
Field: PARACHUTE		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Lat: N 39.511 deg. OR N 39 deg. 30 min. 37.847 secs.				Long: W 108.008 deg. OR W -109 deg. 59 min. 31.232 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:			Srvc Supervisor: DEUSSEN, EDWARD			MBU ID Emp #: 485182	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	10	371353	DEUSSEN, EDWARD Eric	10	485182	EICKHOFF, ROBERT Edward	10.0	495311

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10551730C	60 mile	11006314	60 mile	11021972	60 mile	11583932	60 mile
11808841	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2/6/14	10	4						

TOTAL Total is the sum of each column separately

Job

Formation Name					Date				Time		Time Zone						
Formation Depth (MD)		Top		Bottom		Called Out			05 - Feb - 2014		20:00		MST				
Form Type		BHST		On Location			06 - Feb - 2014			00:30		MST					
Job depth MD		1002. ft		Job Depth TVD		1002. ft			Job Started			06 - Feb - 2014		08:22		MST	
Water Depth		Wk Ht Above Floor		5. ft			Job Completed			06 - Feb - 2014			09:14		MST		
Perforation Depth (MD)		From		To		Departed Loc			06 - Feb - 2014			10:30		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
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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	8.33	.0	.0	4.0	
2	VersaCemGJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	280.0	sacks	12.8	2.11	11.75	8.0	11.75
11.75 Gal		FRESH WATER							
3	Displacement Fluid		75.30	bbl	8.34	.0	.0	10.0	
Calculated Values		Pressures		Volumes					
Displacement	75.3	Shut In: Instant		Lost Returns		Cement Slurry	105.2	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	15	Actual Displacement	75.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	200.5
Rates									
Circulating		Mixing	8	Displacement	10	Avg. Job			8
Cement Left In Pipe	Amount	45.45 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					

The Road to Excellence Starts with Safety

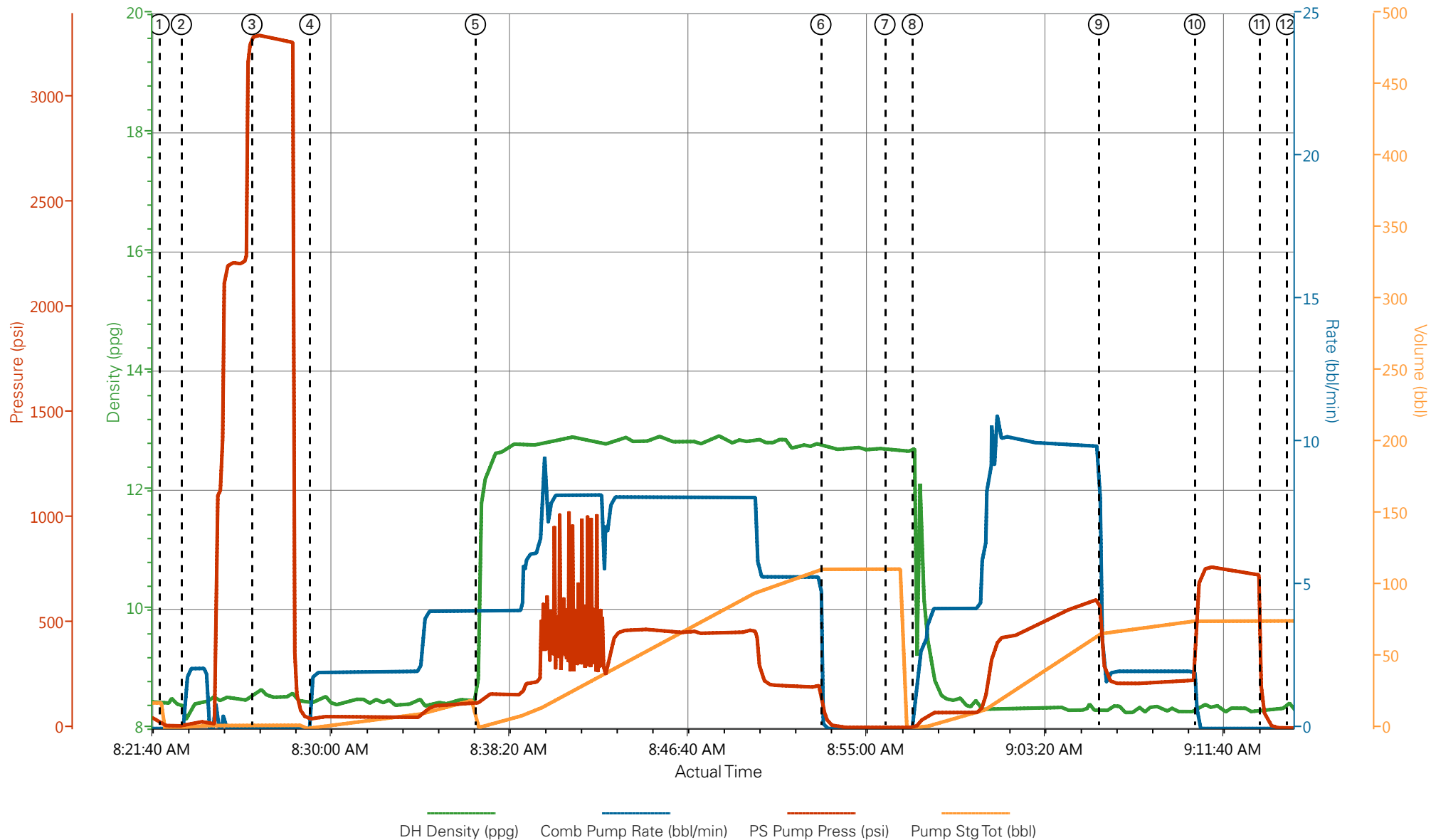
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Field: PARACHUTE		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Legal Description:							
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Contractor: Nabors			Rig/Platform Name/Num: Nabors 573				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person:			Srvc Supervisor: DEUSSEN, EDWARD			MBU ID Emp #: 485182	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/05/2014 20:00							CREW ALREADY IN FIELD
Pre-Convoy Safety Meeting	02/05/2014 22:45							ALL HES PERSONNEL
Crew Leave Yard	02/05/2014 23:00							1 ELITE, 1 660, 1 PICKUP
Arrive At Loc	02/06/2014 00:45							RIG JUST STARTING TO RUN CASING
Assessment Of Location Safety Meeting	02/06/2014 01:00							
Pre-Rig Up Safety Meeting	02/06/2014 06:45							ALL HES PERSONNEL
Rig-Up Equipment	02/06/2014 07:00							
Pre-Job Safety Meeting	02/06/2014 08:00							ALL HES PERSONNEL
Start Job	02/06/2014 08:22							TD 1015'. TP 1002', SJ 45.45', MUD 10.0 PPG, 13 1/2" OH, 9 5/8" CSG H-40 32.3#
Other	02/06/2014 08:23		2	2			35.0	FILL LINES
Pressure Test	02/06/2014 08:26							PRESSURED UP TO 3299 PSI - PRESSURE HELD WELL
Pump Spacer 1	02/06/2014 08:29		4	20			119.0	FRESH WATER
Pump Tail Cement	02/06/2014 08:36		8	105.2			460.0	280 SKS, 12.8 PPG, 2.11 YIELD, 11.75 GAL/SK
Shutdown	02/06/2014 08:53							WASH UP ON TOP OF PLUG
Drop Top Plug	02/06/2014 08:56							
Pump Displacement	02/06/2014 08:57		10	75.3			610.0	FRESH WATER

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Slow Rate	02/06/2014 09:06		2	10			218.0	
Bump Plug	02/06/2014 09:10						768.0	
Check Floats	02/06/2014 09:13							FLOATS HELD - GOT 1/2 BBL BACK
End Job	02/06/2014 09:14							15 BBLS CEMENT TO SURFACE / NO DERRICK CHARGE / 80 LBS SUGAR USED / 1 ADD HOUR
Pre-Rig Down Safety Meeting	02/06/2014 09:20							ALL HES PERSONNEL
Rig-Down Equipment	02/06/2014 09:30							
Pre-Convoy Safety Meeting	02/06/2014 10:15							ALL HES PERSONNEL
Crew Leave Location	02/06/2014 10:30							THANK YOU FOR USING HALLIBURTON - ED DEUSSEN AND CREW

WPX - PA 31-21 - 9 5/8" SURFACE



- | | | | |
|-------------------------------|---------------------------------------|--------------------------------------|--------------------------------|
| ① Start Job 8.46;0;18;0 | ④ Pump H2O Spacer 8.41;1.9;48;0.2 | ⑦ Drop Top Plug 12.7;0;5;111.5 | ⑩ Bump Plug 8.3;0;663;75.3 |
| ② Prime Lines 8.12;0.9;21;0.1 | ⑤ Pump Tail Cement 9.51;4.1;122;0.7 | ⑧ Pump Displacement 12.68;1.8;10;0.1 | ⑪ Check Floats 8.32;0;107;75.3 |
| ③ Test Lines 8.61;0;3299;2.2 | ⑥ Shutdown/Wash Up 12.77;0.1;82;111.5 | ⑨ Slow Rate 8.31;3.1;368;66.7 | ⑫ End Job 8.43;0;2;75.3 |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-02-06 07:40:30, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 2/6/2014 7:42:57 AM

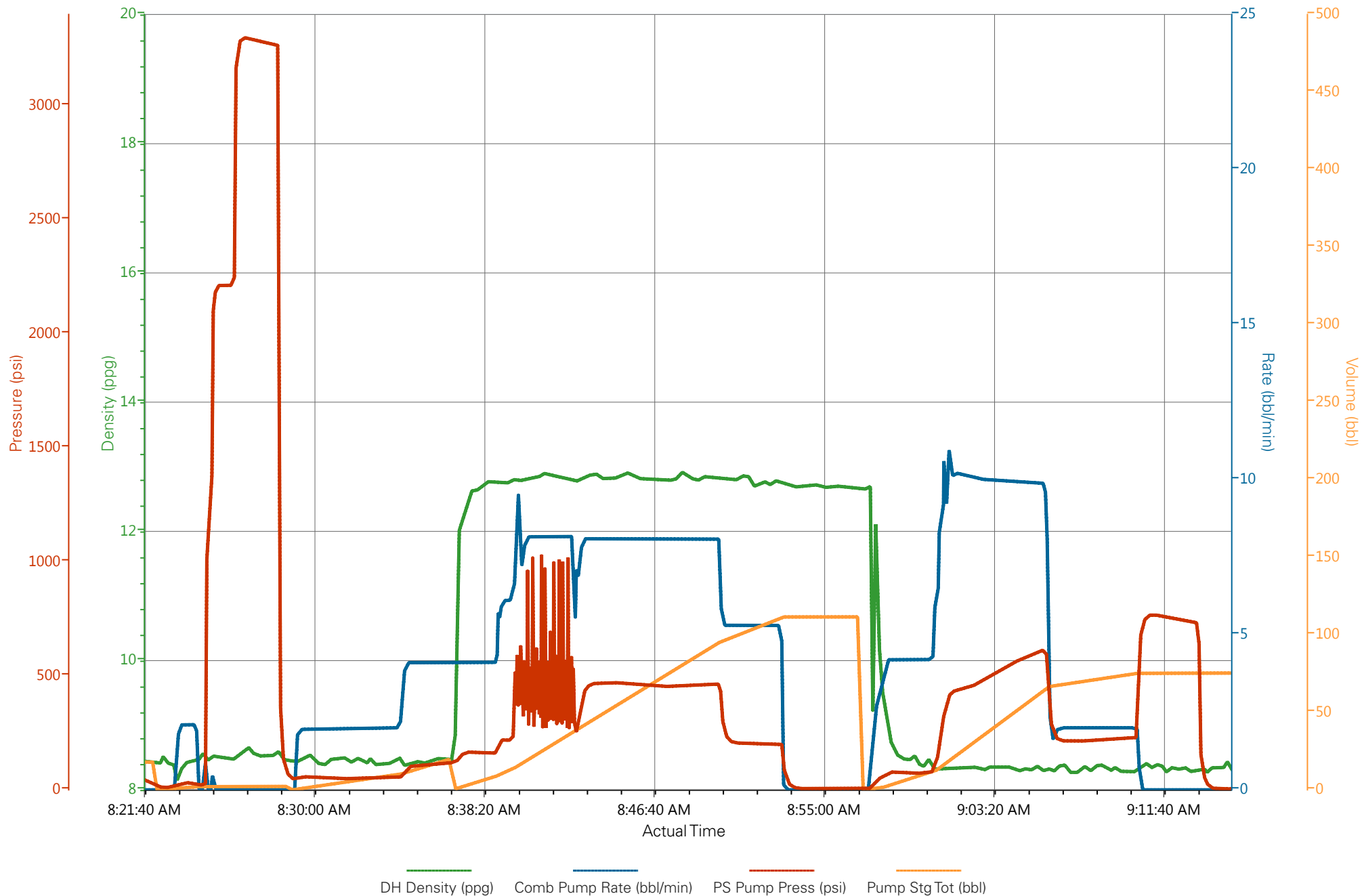
Well: PA 31-21

Representative: Beaude Oaks

Sales Order #: 901092472

Elite #2: Ed Deussen / Rob Eickhoff

WPX - PA 31-21 - 9 5/8" SURFACE



DH Density (ppg) Comb Pump Rate (bbl/min) PS Pump Press (psi) Pump Stg Tot (bbl)

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: ED DEUSSEN

Attention: J.TROUT

Lease PA

Well # 31-21

Date: 2/4/2014

Date Rec.: 2/6/2014

S.O.# 901092472

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>6.5</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Temp	<i>40-80</i>	<i>36</i> Deg
Total Dissolved Solids		<i>360</i> Mg / L

Respectfully: ED DEUSSEN

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

Sales Order #: 901092472	Line Item: 10	Survey Conducted Date: 2/6/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-045-22039
Well Name: PA		Well Number: 31-21
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	2/6/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD DEUSSEN (HB57194)
Customer Participation	Did the customer participate 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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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	2/6/2014

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.	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.	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

Sales Order #: 901092472	Line Item: 10	Survey Conducted Date: 2/6/2014
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Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-045-22039
Well Name: PA		Well Number: 31-21
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	99
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