HALLIBURTON

WILLIAMS PRODUCTION RMT INC EBUSINE

PA 341-21
PARACHUTE
Garfield County , Colorado

Cement Surface Casing

07-Dec-2013

Post Job Report

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 3123599	**Quote #:**	**Sales Order #:** 900951338
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE		**Customer Rep:** Oaks, Beaude	
Well Name: PA	**Well #:** 341-21		**API/UWI #:**
Field: PARACHUTE	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Contractor: NABORS	**Rig/Platform Name/Num:** 573		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person:	**Srvc Supervisor:** EICKHOFF, ROBERT	**MBU ID Emp #:** 495311	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, ADAM S	0.0	456683	DEUSSEN, EDWARD Eric	0.0	485182	EICKHOFF, ROBERT Edward	0.0	495311
IVIE, KAYDEN Kurt	0.0	553536						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
	60 mile	10872429	60 mile	11360871	60 mile	11808847	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			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	1437. ft	**Job Depth TVD**	1437. ft
Water Depth		**Wk Ht Above Floor**	4. ft
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	07 - Dec - 2013	07:00	MST
On Location	07 - Dec - 2013	13:00	MST
Job Started	07 - Dec - 2013	20:35	MST
Job Completed	07 - Dec - 2013	21:35	MST
Departed Loc	07 - Dec - 2013	23:30	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
OPEN HOLE				13.5				.	1437.		
SURFACE CASING	Unknown		9.625	8.921	32.3			.	1411.		

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

HALLIBURTON

Cementing Job Summary

Stage/Plug #: 1										
1	**VersaCem Lead**	**VERSACEM (TM) SYSTEM (452010)**	**200.0**	**sacks**	**12.3**	**2.38**	**13.75**		**13.75**
	13.75 Gal	FRESH WATER							
2	**VersaCem Tail**	**VERSACEM (TM) SYSTEM (452010)**	**175.0**	**sacks**	**12.8**	**2.11**	**11.75**		**11.75**
	11.75 Gal	FRESH WATER							
3	**Displacement Fluid**		**108.00**	**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**	***43.65 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***

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

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Customer: WILLIAMS PRODUCTION RMT INC EBUSINE		**Customer Rep:** Oaks, Beaude	
Well Name: PA	**Well #:** 341-21		**API/UWI #:**
Field: PARACHUTE	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat:		**Long:**	
Contractor: NABORS	**Rig/Platform Name/Num:** 573		
Job Purpose: Cement Surface Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person:	**Srvc Supervisor:** EICKHOFF, ROBERT		**MBU ID Emp #:** 495311

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/07/2013 07:00							
Pre-Convoy Safety Meeting	12/07/2013 09:45							
Crew Leave Yard	12/07/2013 10:00							1 ELITE, 2 660's, 1 PICK-UP
Arrive At Loc	12/07/2013 13:00							RIG JUST FINISHING PULLING DRILL PIPE
Assessment Of Location Safety Meeting	12/07/2013 13:15							
Pre-Rig Up Safety Meeting	12/07/2013 18:45							
Rig-Up Equipment	12/07/2013 19:00							
Pre-Job Safety Meeting	12/07/2013 20:15							
Start Job	12/07/2013 20:35							TD 1437', TP 1411', SJ 43.65', MW 9.4PPG, OH 13 1/2", CSG 9 5/8 32.3# H40,
Other	12/07/2013 20:35		2	2			69.0	FILL LINES
Pressure Test	12/07/2013 20:38							PRESSURED UP TO 3458PSI-PRESSURE HELD WELL
Pump Spacer 1	12/07/2013 20:41		4	20			120.0	FRESH WATER
Pump Lead Cement	12/07/2013 20:49		8	84.8			328.0	200sks 12.3ppg/2.38 yield/13.75gal/sk
Pump Tail Cement	12/07/2013 21:01		8	65.8			320.0	175sks 12.8ppg/2.11 yield/11.75gal/sk
Shutdown	12/07/2013 21:10							WASH UP ON TOP OF PLUG
Drop Top Plug	12/07/2013 21:12							

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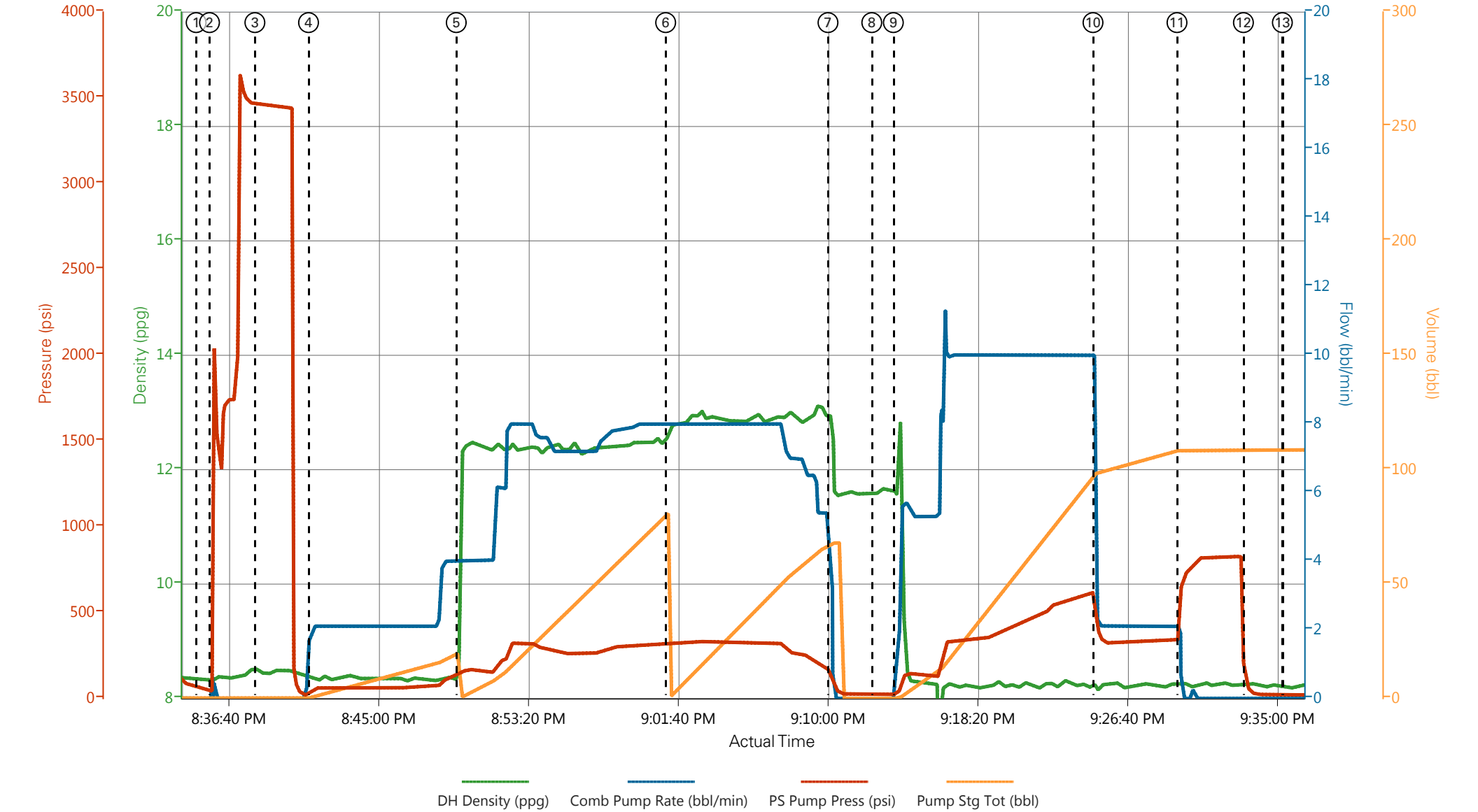
Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	12/07/2013 21:13		10	107.6			620.0	FRESH WATER
Slow Rate	12/07/2013 21:24		2	10			320.0	
Bump Plug	12/07/2013 21:29						340.0	PRESSURED UP TO 810 PSI
Check Floats	12/07/2013 21:33							FLOATS HELD- GOT 1/2 BBL BACK
End Job	12/07/2013 21:35							20BBLS CMT TO SURFACE/NO DERRICK CHARGE/NO SILO CHARGE/1 ADD HOUR/40LBS SUGAR
Pre-Rig Down Safety Meeting	12/07/2013 21:45							
Rig-Down Equipment	12/07/2013 22:00							
Pre-Convoy Safety Meeting	12/07/2013 23:15							
Crew Leave Location	12/07/2013 23:30							THANK YOU FOR USING HALLIBURTON- ROB EICKHOFF & CREW

WPX - PA 341-21 - 9 5/8" SURFACE



① Start Job 8.33;0;56;0.2
② Fill Lines 8.36;0;43;0.3
③ Test Lines 8.49;0;3458;0.3
④ Pump H2O Spacer 8.37;2.2;43;0.5
⑤ Pump Lead Cement 9.57;4;136;0.1
⑥ Pump Tail Cement 12.64;8;316;0.1
⑦ Shutdown 12.95;4.1;136;67.8
⑧ Drop Plug 11.57;0;24;0
⑨ Pump Displacement 11.56;1.1;24;0
⑩ Slow Rate 8.16;5.1;496;98.6
⑪ Bump Plug 8.25;1.9;548;108.6
⑫ Check Floats 8.24;0;77;108.7
⑬ End Job 8.2;0;21;108.7

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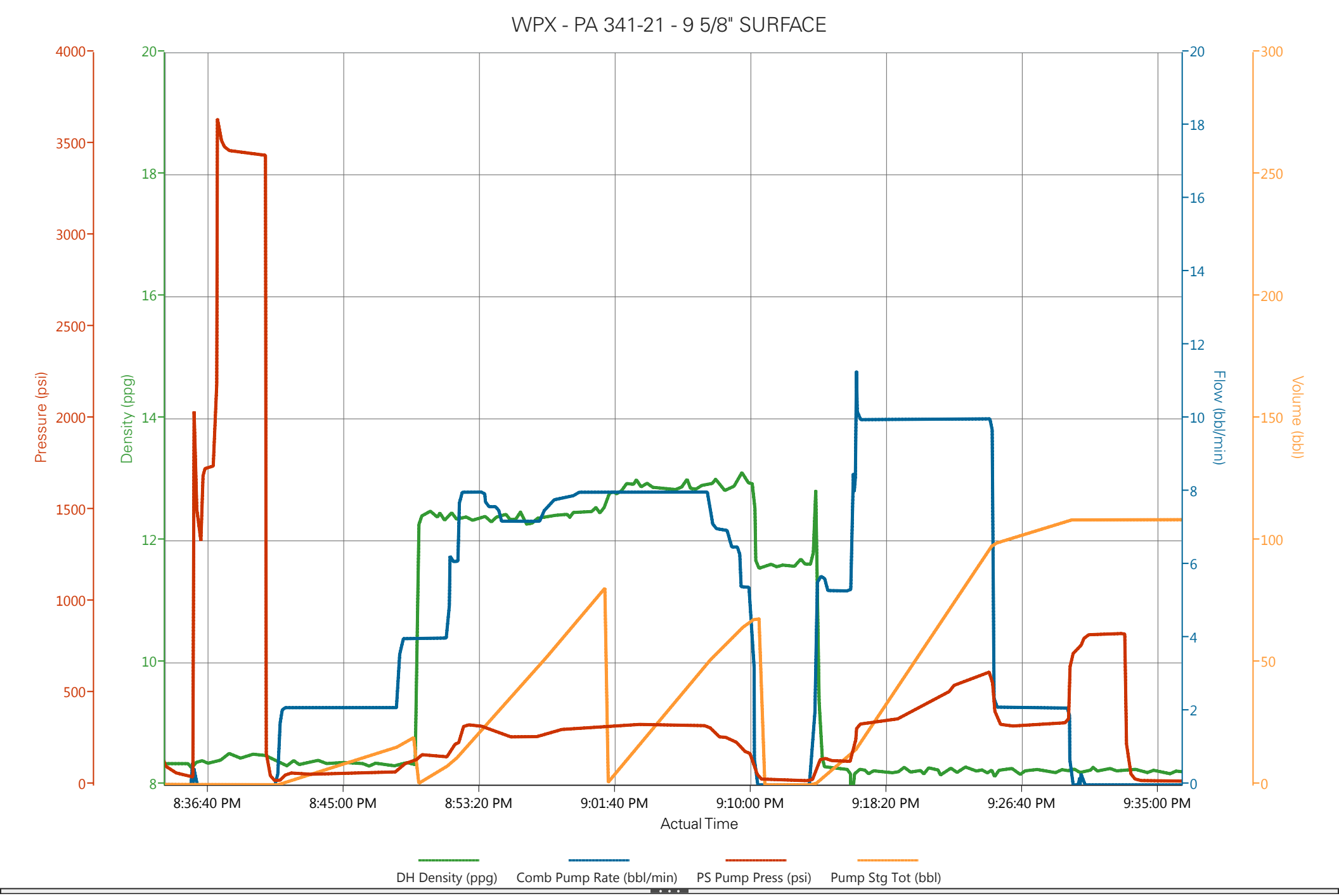
Created: 2013-12-07 19:38:04, Version: 2.0.606 Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
Job Date : 12/7/2013 7:39:56 PM
Well : PA 341-21
Representative : Ron Towers
Sales Order # : 900951338
Elite #9 : Rob Eickhoff / Adam Anderson



HALLIBURTON | iCem® Service

Created: 2013-12-07 19:38:04, Version: 2.0.606 Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 12/7/2013 7:39:56 PM

Well : PA 341-21

Representative : Ron Towers

Sales Order # : 900951338

Elite #9 : Rob Eickhoff / Adam Anderson

HALLIBURTON

Water Analysis Report

Company:	**WILLIAMS**	**Date:**	**12/7/2013**
Submitted by:	**ED DEUSSEN**	**Date Rec.:**	**12/7/2013**
Attention:	**J.TROUT**	**S.O.#**	**900951338**
Lease	**PA**	**Job Type:**	**SURFACE**
Well #	**341-21**		

Specific Gravity	***MAX***	**1**	
pH	***8***	**6.7**	
Potassium (K)	***5000***	**0**	**Mg / L**
Calcium (Ca)	***500***	**120**	**Mg / L**
Iron (FE2)	***300***	**0**	**Mg / L**
Chlorides (Cl)	***3000***	**0**	**Mg / L**
Sulfates (SO_4)	***1500***	**<200**	**Mg / L**
Temp	***40-80***	**47**	**Deg**
Total Dissolved Solids		**380**	**Mg / L**

Respectfully: **ED DEUSSEN**

Title: **CEMENTING SUPERVISOR**

Location: **Grand Junction, CO**

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
900951338	10	12/7/2013
Customer:		**Job Type (BOM):**
WILLIAMS PRODUCTION RMT INC EBUSINE		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
RON TOWERS		AFEYK5HVXKKAVE0FAAA
Well Name:		**Well Number:**
PA		341-21
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. 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**	**12/7/2013**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**ROBERT EICKHOFF (HB67006)**
Customer Participation	**Did the customer partipcipate 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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
900951338	10	12/7/2013
Customer:		**Job Type (BOM):**
WILLIAMS PRODUCTION RMT INC EBUSINE		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
RON TOWERS		AFEYK5HVXKKAVE0FAAA
Well Name:		**Well Number:**
PA		341-21
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	12/7/2013

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.	3
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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
900951338	10	12/7/2013
Customer:		**Job Type (BOM):**
WILLIAMS PRODUCTION RMT INC EBUSINE		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
RON TOWERS		AFEYK5HVXKKAVE0FAAA
Well Name:		**Well Number:**
PA		341-21
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	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	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