

WPX Energy Rocky Mountain LLC - EBUS

PA 332-27

Nabors 576

Post Job Summary

Cement Surface Casing

Date Prepared: 10/30/2014

Job Date: 10/28/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3207526	Quote #:	Sales Order #: 0901778127
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: AL HARTL		
Well Name: FEDERAL	Well #: PA 332-27	API/UWI #: 05-045-22240-00	
Field: PARACHUTE	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 27-6S-95W-2405FNL-649FEL			
Contractor: NABORS DRLG	Rig/Platform Name/Num: NABORS 576		
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180	Srvc Supervisor: Thomas Ponder		
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	2790ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 3ft
Perforation Depth (MD)	From		To

Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing	3	9.625	9.001	32.3			0	30	0	0
Casing		9.625	9.001	32.3		H-40	0	2760		0
Open Hole Section			13.5				0	2820		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1	WTF	2790		Top Plug	9.625	1	HES
Float Shoe	9.625					Bottom Plug	9.625		
Float Collar	9.625	1	WTF	2746.1		SSR plug set	9.625		
Insert Float	9.625					Plug Container	9.625	1	HES
Stage Tool	9.625					Centralizers	9.625		

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/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	20	bbl	8.34			4		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	VariCem GJ1	VARICEM (TM) CEMENT	425	sack	12.3	2.38		8	13.77	

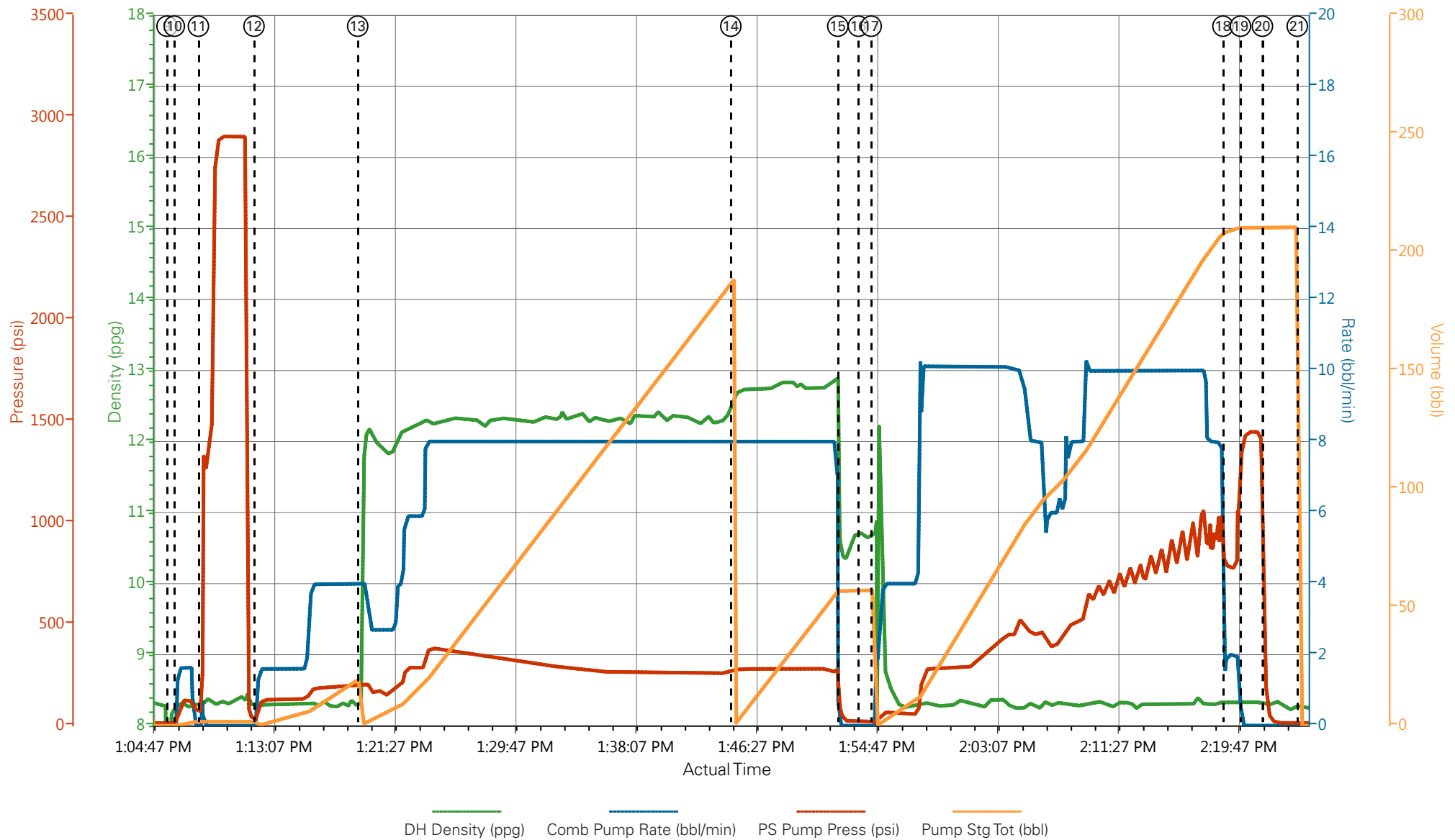
13.70 Gal		FRESH WATER							
0.25 lbm		POLY-E-FLAKE (101216940)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ1	VARICEM (TM) CEMENT	150	sack	12.8	2.11		8	11.77
0.25 lbm		POLY-E-FLAKE (101216940)							
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	216.1	bbl	8.34			10	
Cement Left In Pipe		Amount	44 ft		Reason		Shoe Joint		
Comment									

1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	10/28/2014	05:30:00	USER					ON LOCATION TIME @ 0930
Event	2	Pre-Convoy Safety Meeting	10/28/2014	08:15:00	USER					ALL INVOLVED WITH THE CONVOY WERE PRESENT FOR THE MEETING
Event	3	Crew Leave Yard	10/28/2014	08:30:00	USER					PUMP WAS LEFT IN THE FIELD NEAR LOCATION, PICK UP AND BULK TRAILER LEFT YARD AT THE SAME TIME
Event	4	Arrive At Loc	10/28/2014	09:30:00	USER					RIG WAS STILL RUNNING CASING WHEN THE CREW ARRIVED ON LOCATION
Event	5	Assessment Of Location Safety Meeting	10/28/2014	11:30:00	USER					TD - 2820', TP - 2790', SJ - 43.9', MUD - 10.3 PPG, OPEN HOLE - 13 1/2", SURFACE CASING - 9 5/8" 32.3# - 36# MULTIPLE STICKS OF EACH
Event	6	Pre-Rig Up Safety Meeting	10/28/2014	12:00:00	USER					JSA PERFORMED
Event	7	Rig-Up Equipment	10/28/2014	12:15:00	USER					1 - 550 PICK UP TRUCK, 1 - ELITE PUMPING UNIT, 1 - 660 CUFT BULK TRAILER, 1 - 1700 CUFT STORAGE SILO, 2" CIRCULATING IRON, 1 - 9 5/8" PLUG CONTAINER AND QUICK LATCH, 1 - 9 5/8" SWEGE
Event	8	Pre-Job Safety Meeting	10/28/2014	12:50:00	USER					ALL HES PRESENT, RIG CREW PRESENT
Event	9	Start Job	10/28/2014	13:05:55	COM6					RIG UP FROM STAND PIPE TO PLUG CONTAINER
Event	10	Prime Pumps	10/28/2014	13:06:26	COM6	8.33	2	125	2	FLII LINES WITH FRESH WATER
Event	11	Test Lines	10/28/2014	13:08:05	COM6		.1	2904	.1	GREAT PRESSURE TEST NO LEAKS IN THE LINES
Event	12	Pump Spacer 1	10/28/2014	13:11:56	COM6	8.33	4	195	20	FRESH WATER, MIX UP FIRST TUB OF CEMENT, TAKE MUD CUP
Event	13	Pump Lead Cement	10/28/2014	13:19:06	COM6	12.3	8	380	180.1	425 SKS 12.3 PPG 2.38 FT3/SK 13.77 GAL/SK, AS SOON AS WE WENT TO LEAD THE BULK LINE PACKED OFF, HAD TO SLOW RATE AND GET CEMENT MOVING BEFORE BRINGING UP THE

										RATE TO MAINTAIN DENSITY			
Event	14	Pump Tail Cement	10/28/2014	13:44:53	COM6	12.8	8	280	56.4	150 SKS	12.8 PPG	2.11 FT3/SK	11.77 GAL/SK
Event	15	Shutdown	10/28/2014	13:52:17	USER								
Event	16	Drop Top Plug	10/28/2014	13:53:42	USER					PLUG DROP VERIFIED VIA TATLE TELL BY THE DRILLER			
Event	17	Pump Displacement	10/28/2014	13:54:35	COM6	8.33	10	1060	206.1	FRESH WATER, FIRST 10 BBL USED TO WASH UP MIXING TUB, HAD TO SLOW RATE @ 80 BBL AWAY BECAUSE THE CELLAR DREGES PUMP COULD NOT KEEP UP WITH THE RETURNS, ABLE TO RETURN TO 10 BPM @ 110 BBL AWAY			
Event	18	Slow Rate	10/28/2014	14:18:54	USER	8.33	2	785	10	GOOD RETURNS THROUGH OUT THE JOB, CIRCULATED 80 BBL OF CEMENT TO SURFACE			
Event	19	Bump Plug	10/28/2014	14:20:06	USER		2	800	216.1	PLUG BUMPED			
Event	20	Check Floats	10/28/2014	14:21:37	USER			1450	216.1	FLOATS HELD, 1 BBL BACK TO THE DISPLACEMENT TANKS			
Event	21	End Job	10/28/2014	14:24:02	COM6					THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW			

WPX - FEDERAL PA 332-27 - 9.625 IN SURFACE



- | | | | | | |
|-----------------------------|---|-----------------|--------------------|---------------------|------------|
| ① Call Out | ⑤ Assessment Of Location Safety Meeting | ⑨ Start Job | ⑬ Pump Lead Cement | ⑰ Pump Displacement | 21 End Job |
| ② Pre-Convoy Safety Meeting | ⑥ Pre-Rig Up Safety Meeting | ⑩ Prime Pumps | ⑭ Pump Tail Cement | ⑱ Slow Rate | |
| ③ Crew Leave Yard | ⑦ Rig-Up Equipment | ⑪ Test Lines | ⑮ Shutdown | ⑲ Bump Plug | |
| ④ Arrive At Loc | ⑧ Pre-Job Safety Meeting | ⑫ Pump Spacer 1 | ⑯ Drop Top Plug | 20 Check Floats | |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-10-28 12:36:19, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 10/28/2014 12:38:27 PM

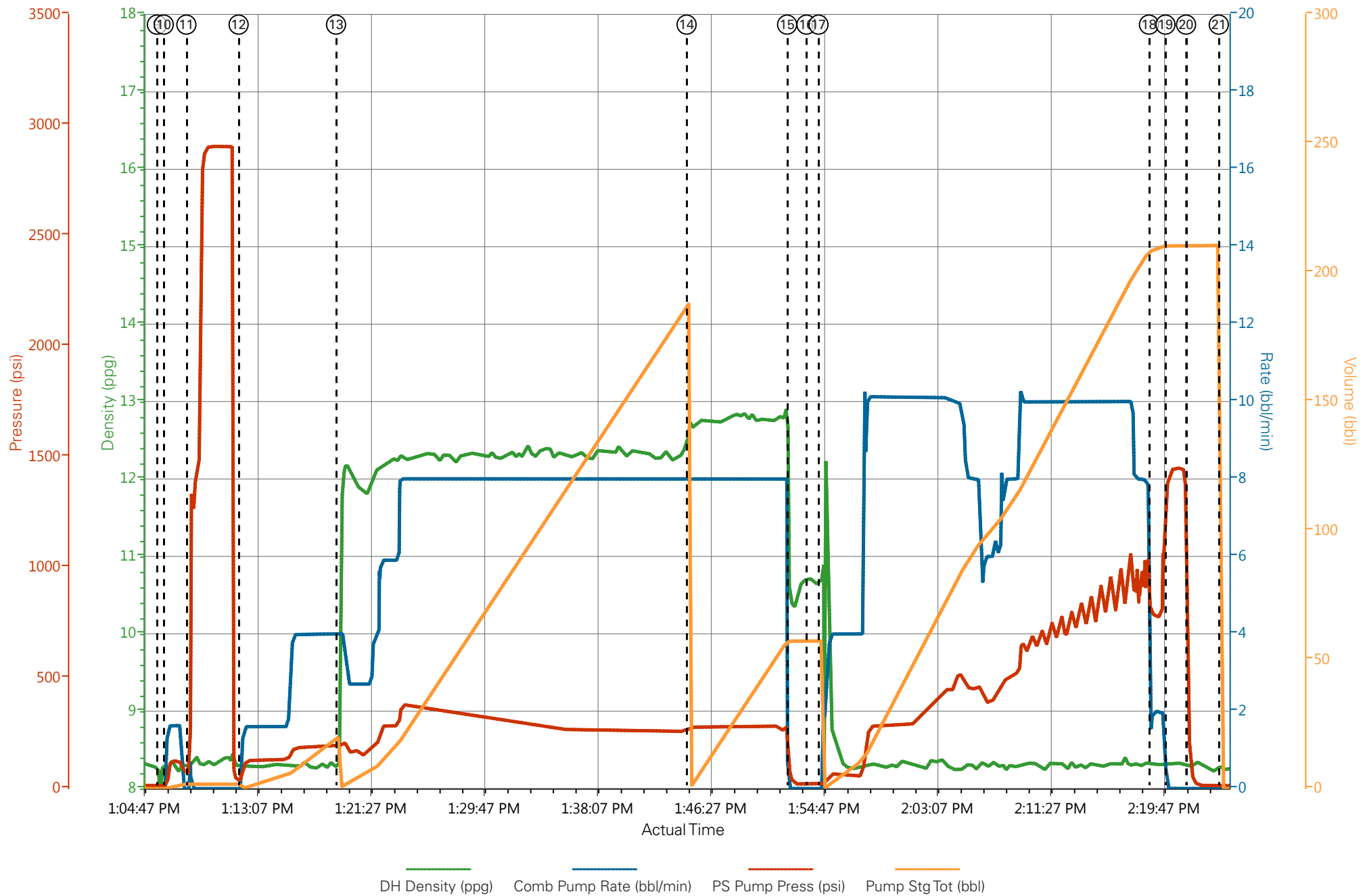
Well: FEDERAL PA 332-27

Representative: AL HARTL

Sales Order #: 901778127

ELITE #3: TRAVIS BROWN / ANDREW LINN
THOMAS PONDER

WPX - FEDERAL PA 332-27 - 9.625 IN SURFACE



HALLIBURTON

Company:	<u>WPX</u>	Date:	<u>10/28/2014</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>10/28/2014</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>901778127</u>
Lease	<u>FEDERAL</u>	Job Type:	<u>SURFACE</u>
Well #	<u>PA 332-27</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</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
Carbonates hardness		
Temp	<i>40-80</i>	<i>52</i> Deg
Total Dissolved Solids		<i>210</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

Sales Order #: 0901778127	Line Item: 10	Survey Conducted Date: 10/28/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-22240-00
Well Name: FEDERAL		Well Number: 0080244782
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	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	10/28/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL HARTL
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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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	10/28/2014

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.	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.	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

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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	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	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