

WPX Energy Rocky Mountain LLC- EBUS

PA 333-27

**Nabors 576**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 10/30/14

Job Date: 10/20/14

Submitted by: Evan Russell – Grand Junction Cement Engineer

*The Road to Excellence Starts with Safety*

Sold To #: 300721		Ship To #: 2330277		Quote #:		Sales Order #: 0901761631				
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Rick Oaks						
Well Name: PA		Well #: 333-27		API/UWI #:						
Field:	City (SAP): RIFLE	County/Parish: Garfield		State: COLORADO						
Legal Description:										
Contractor:				Rig/Platform Name/Num: Nabors 576						
Job BOM: 7521										
Well Type: GAS										
Sales Person: HALAMERICA\HB50180				Srvc Supervisor: Dustin Hyde						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		2772ft		Job Depth TVD						
Water Depth				Wk Ht Above Floor						
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		9.625	9.001	32.3			0	30	0	0
Casing		9.625	9.001	32.3		H-40	0	2772		0
Open Hole Section			13.5				0	2816		0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	9.625	1		2772		Top Plug	9.625	1	HES	
Float Shoe	9.625	1				Bottom Plug				
Float Collar	9.625	1				SSR plug set				
Insert Float	9.625	1				Plug Container	9.625	1	HES	
Stage Tool	9.625	1				Centralizers				
Miscellaneous Materials										
Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size
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	
Stage/Plug #: 2										
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		530	sack	12.3	2.38		6	13.77

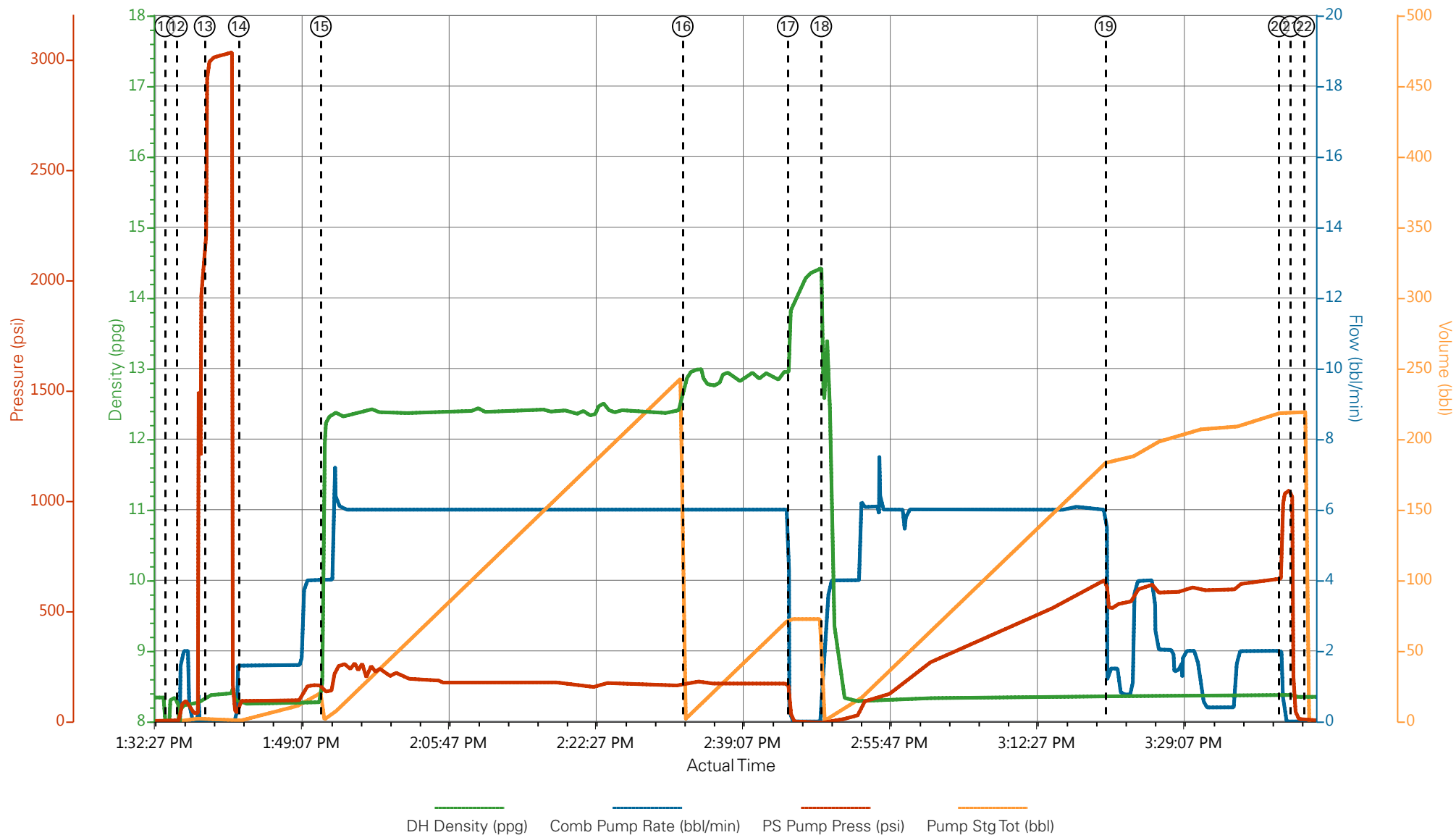
13.70 Gal		FRESH WATER							
0.25 lbm		POLY-E-FLAKE (101216940)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ1	VARICEM (TM) CEMENT	175	sack	12.8	2.11		6	11.77
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	217	bbl	8.34			6	
Cement Left In Pipe		Amount	44 ft		Reason		Shoe Joint		
Comment									

## 3.5 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Crew Called Out	10/19/2014	20:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	10/19/2014	22:45:00	USER					
Event	3	Crew Leave Yard	Crew Leave Yard	10/19/2014	23:00:00	USER					ELITE #7, 1 660 STRETCH BULK TRUCK, 1 FRUE, AND 1 PICKUP
Event	4	Arrive At Loc	Arrive At Loc	10/20/2014	01:00:00	USER					RIG PULLIG DRILL PIPE UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	10/20/2014	01:30:00	USER					ASSESED LOCATION PERFORMED JSA, SPOTTED FRUEHAUGH IN AND UNLOADED AND WAITED FOR CASERS TO BE COMPLETE AND OFF LOCATION
Event	6	Other	Spot Equipment	10/20/2014	10:00:00	USER					
Event	7	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/20/2014	11:30:00	USER					
Event	8	Rig-Up Equipment	Rig-Up Equipment	10/20/2014	11:45:00	USER					
Event	9	Rig-Up Completed	Rig-Up Completed	10/20/2014	12:30:00	USER					
Event	10	Pre-Job Safety Meeting	Pre-Job Safety Meeting	10/20/2014	13:00:00	USER					10.5 PPG MUD, 60 VIS
Event	11	Start Job	Start Job	10/20/2014	13:34:00	COM5					TP 2,771.59', SJ 44.22', OH 13 1/2", SURFACE CSG 9 5/8" 32.3# H-40
Event	12	Prime Pumps	Prime Lines	10/20/2014	13:35:21	USER	95	8.33	2.0	2	FRESH WATER
Event	13	Test Lines	Test Lines	10/20/2014	13:38:29	COM5	3020				PRESSURE HELD AT 3020 PSI
Event	14	Pump Spacer 1	Pump H2O Spacer	10/20/2014	13:42:22	COM5	167	8.33	4.0	20	FRESH WATER
Event	15	Pump Lead Cement	Pump Lead Cement	10/20/2014	13:51:40	COM5	200	12.3	6.0	224	530 SKS OF VARICEM CMT, 12.3 PPG, 2.38 YIELD, 13.77 GAL/SK

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	16	Pump Tail Cement	Pump Tail Cement	10/20/2014	14:32:41	COM5	180	12.8	6.0	66	175 SKS OF VARICEM CMT, 12.8 PPG, 2.11 YIELD, 11.77 GAL/SK
Event	17	Shutdown	Shutdown	10/20/2014	14:44:35	USER					WASHED UP ONTOP AND DROPPED PLUG VERIFIED BY CO. REP
Event	18	Pump Displacement	Pump Displacement	10/20/2014	14:48:23	COM5	636	8.33	6.0	214	FRESH WATER
Event	19	Slow Rate	Slow Rate	10/20/2014	15:20:36	USER	650	8.33	2.0	20	HAD TO SLOW FOR SUCK TRUCKS TO REMOVE CMT FROM CELLER 80 BBLS OF CMT BACK TO SURFACE
Event	20	Bump Plug	Bump Plug	10/20/2014	15:40:14	COM5	645	8.33	2.0	10	PLUG BUMPED
Event	21	Check Floats	Check Floats	10/20/2014	15:41:33	USER	1047				FLOATS HELD 1 BBL FLOW BACK
Event	22	End Job	End Job	10/20/2014	15:43:07	COM5					
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	10/20/2014	16:00:00	USER					
Event	24	Rig-Down Equipment	Rig-Down Equipment	10/20/2014	16:15:00	USER					
Event	25	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	10/20/2014	17:00:00	USER					
Event	26	Crew Leave Location	Crew Leave Location	10/20/2014	17:30:00	USER					THANK YOU FOR USING HALLIBURTON CMT

# WPX PA 333-27 9 5/8" SURFACE



- |                             |   |                             |                          |                    |                     |                |
|-----------------------------|---|-----------------------------|--------------------------|--------------------|---------------------|----------------|
| ① Crew Called Out           | ④ Arrive At Loc                         | ⑦ Pre-Rig Up Safety Meeting | ⑩ Pre-Job Safety Meeting | ⑬ Test Lines       | ⑯ Pump Tail Cement  | ⑲ Slow Rate    |
| ② Pre-Convoy Safety Meeting | ⑤ Assessment Of Location Safety Meeting | ⑧ Rig-Up Equipment          | ⑪ Start Job              | ⑭ Pump H2O Spacer  | ⑰ Shutdown          | ⑳ Bump Plug    |
| ③ Crew Leave Yard           | ⑥ Spot Equipment                        | ⑨ Rig-Up Completed          | ⑫ Prime Lines            | ⑮ Pump Lead Cement | ⑱ Pump Displacement | ㉑ Check Floats |



▼ **HALLIBURTON** | iCem® Service

Created: 2014-10-20 09:05:58, Version: 4.0.248

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 10/20/2014 12:36:26 PM

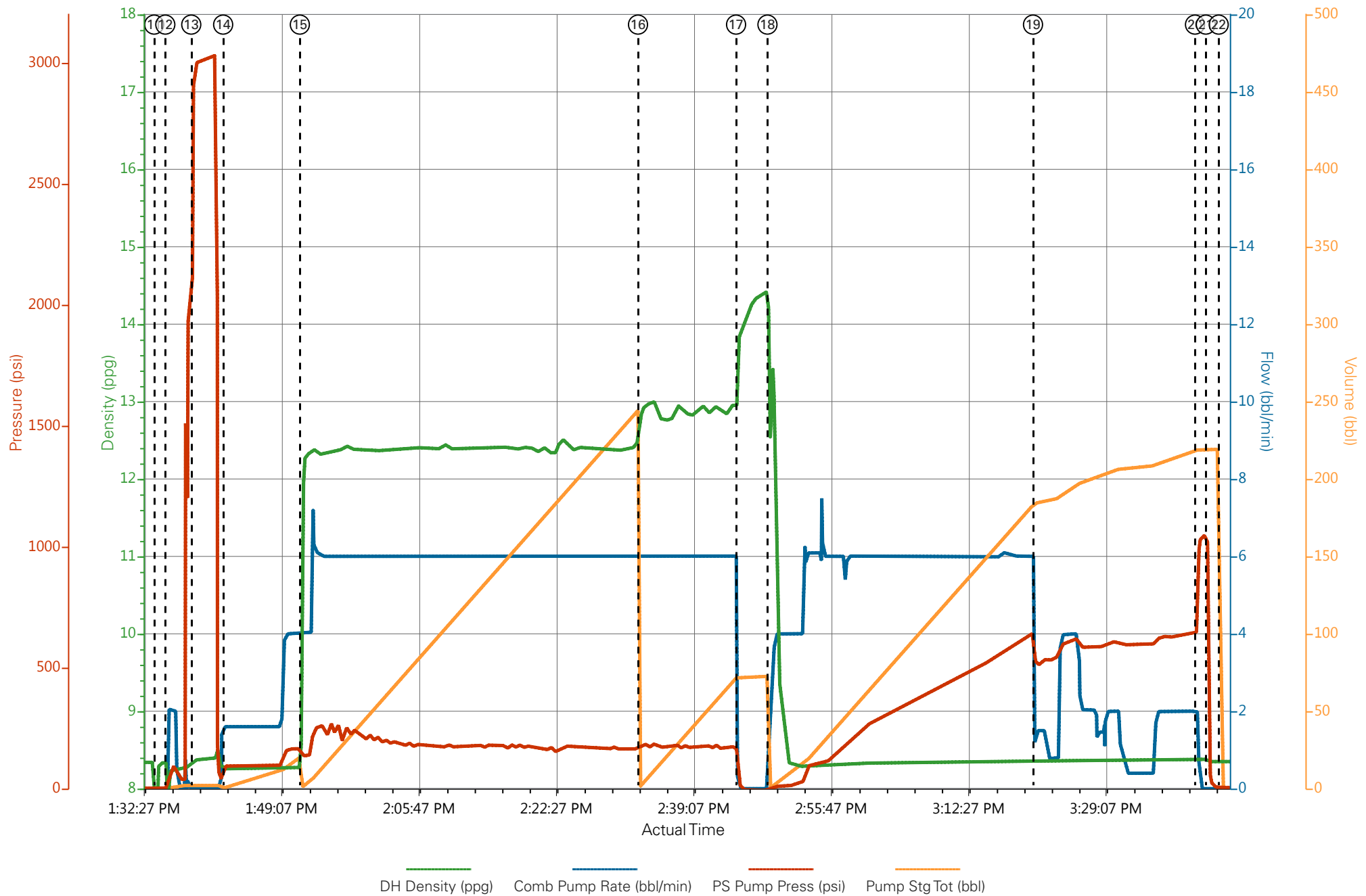
Well: PA 333-27

Representative: RICK OAKS

Sales Order #: 901761631

ELITE #7: DUSTIN HYDE / TRAVIS BROWN

# WPX PA 333-27 9 5/8" SURFACE



# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: Dustin Hyde

Attention: J.TROUT

Lease PA

Well # 333-27

Date: 10/20/2014

Date Rec.: 10/20/2014

S.O.# 901761631

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>8</b>
Potassium (K)	<i>5000</i>	<b>200</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>250</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>500</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200</b> Mg / L
Temp	<i>40-80</i>	<b>58</b> Deg
Total Dissolved Solids		<b>590</b> Mg / L

Respectfully: Dustin Hyde

Title: Cement 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.

<b>Sales Order #:</b> 0901761631	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/21/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RICK OAKS		<b>API / UWI: (leave blank if unknown)</b>
<b>Well Name:</b> PA		<b>Well Number:</b> N/A
<b>Well Type:</b> GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> 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	10/21/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB43597
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RICK 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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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	10/21/2014

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	4
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Pumping Hours</b> Total number of hours pumping fluid on this job. Enter in decimal format.	2
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	5
<b>Was this a Primary Cement Job (Yes / No)</b> Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Customer Non-Productive Rig Time (hrs)</b>	0

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<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> Garfield

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.	
<b>Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?</b> Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>If a top plug was run, was the plug bumped? (Yes/No/N/A)</b> If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
<b>If applicable, was Halliburton float equipment used? (Yes/No/N/A)</b> If applicable, was Halliburton float equipment used? (Yes/No/N/A)	Not Available
<b>If applicable, did the floats hold? (Yes/No/N/A)</b> If applicable, did the floats hold? (Yes/No/N/A)	Yes
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	96
<b>If applicable, were there returns throughout the job? (Yes/No/N/A)</b> If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0