

WPX Energy Rocky Mountain LLC - EBUS

PA 331-27

Nabors 576

Post Job Summary

Cement Surface Casing

Date Prepared: 12/28/2014

Job Date: 12/06/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3207602	Quote #:	Sales Order #: 0901903924
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: RICK OAKS		
Well Name: FEDERAL	Well #: PA 331-27	API/UWI #: 05-045-22243-00	
Field: PARACHUTE	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 27-6S-95W-2360FNL-648FEL			
Contractor: NABORS DRLG	Rig/Platform Name/Num: NABORS 576		
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180	Srv Supervisor: JAVIER CASTILLO		
Job			

Formation Name	
Formation Depth (MD)	Top SURFACE Bottom 2930ft
Form Type	BHST
Job depth MD	2930ft 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	3	9.625	9.001	32.3			0	30	0	0
Casing	NEW	9.625	9.001	32.3		H-40	0	2930		0
Open Hole Section			13.5				0	2930		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1	WTF	2930		Top Plug	9.625	1	HES
Float Shoe						Bottom Plug			
Float Collar	9.625	1	WTF	2886.59		SSR plug set			
Insert Float						Plug Container	9.625	1	HES
Stage Tool						Centralizers	9.625		WTF

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	400	sack	12.3	2.38		8	13.77	

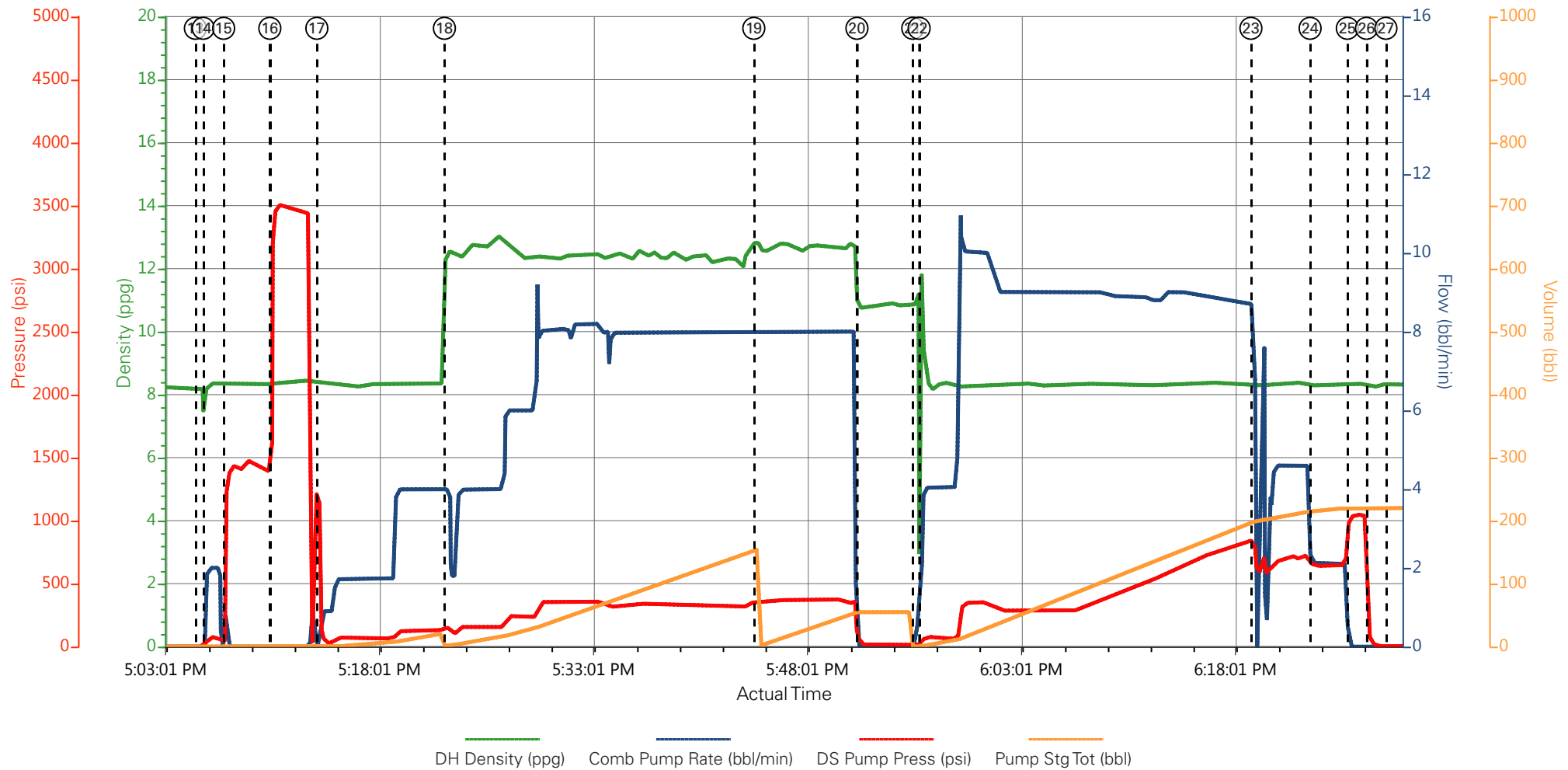
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ1	VARICEM (TM) CEMENT	155	sack	12.8	2.11		8	11.77
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	227	bbl	8.34			9	
Cement Left In Pipe		Amount	44.11 ft		Reason		Shoe Joint		
Comment									

1.1 Job Event Log

Graph Label	Date	Time	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Pressure	Pump Stg Total	Comment
CALL OUT	12/6/2014	02:00:00					ON LOCATION AT 08:00 HRS
DEPART YARD SAFETY MEETING	12/6/2014	03:50:00					
CREW LEAVE THE YARD	12/6/2014	04:00:00					
ARRIVE ON LOCATION	12/6/2014	05:00:00					RIG WAS PULLING OUT DRILL PIPE, WELL WAS TIGHT PULLING OUT THE DRILL PIPE
RIG START RUNNING CASING	12/6/2014	09:00:00					WELL WAS TIGHT GOING IN WITH CASING
RIG LANDED CASING	12/6/2014	13:30:00					RIG BEGAN TO CIRCULATE WELL
WELL HEAD LEAK	12/6/2014	14:00:10					RIG HEAD TO CHANGE THE WELL HEAD BECAUSE IT WAS LEAKING
SPOT TRUCKS	12/6/2014	15:35:01					SPOT TRUCKS AFTER CASING CREW CLEARED LOCATION
RIG UP MEETING	12/6/2014	15:45:01					
RIG UP	12/6/2014	15:50:01					1-ELITE, 1-660, 1-SILO, 2" IRON, PLUG CONTAINER AND QUICK CONNECT
RIG UP COMPLETE	12/6/2014	16:35:01					
PRE-JOB SAFETY MEETING	12/6/2014	16:50:01					ALL HES PERSONEL AND RIG CREW
START JOB	12/6/2014	17:05:20					JOB DEPTH 2930.7', OH- 13.5", SJ-44.11, FC- 2886.56', CSG-9.625", 32.3#, H-40
PRIME LINES	12/6/2014	17:05:53	8.33 PPG	2 BPM	90 psi	2 bbls	FRESH WATER
STALL OUT	12/6/2014	17:07:19					TESTED TO 1441 PSI
TEST LINES	12/6/2014	17:10:33					TESTED TO 3500 PSI

WATER SPACER	12/6/2014	17:13:51	8.33 ppg	4 bpm	110 psi	20 bbls	FRESH WATER
LEAD CEMENT	12/6/2014	17:22:47	12.3 ppg	8 bpm	319 psi	169 bbls	400 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
TAIL CEMENT	12/6/2014	17:44:29	12.8 ppg	8 bpm	370 psi	58 bbls	155 SKS, 12.8 PPG, 2.11 FT3/SK, 11.77 GAL/SK
SHUTDOWN	12/6/2014	17:51:42					GOOD CIRCULATION THROUGH OUT CEMENT MIXING
DROP TOP PLUG	12/6/2014	17:55:37					PLUG DROP VERIFIED BY CUSTOMER AND DRILLER
DISPLACEMENT	12/6/2014	17:56:04	8.33 ppg	9 bpm	850 psi	200 bbls	FRESH WATER
SLOW RATE	12/6/2014	18:19:19	8.33 ppg	4 bpm	735 psi	17 bbls	
SLOW RATE	12/6/2014	18:23:28	8.33 ppg	2 bpm	653 psi	10 bbls	
BUMP PLUG	12/6/2014	18:26:05			1050 psi	Total Disp 227 bbls	CIRCULATED 20 BBLS / 48 SKS OF CEMENT TO SURFACE
CHECK FLOATS	12/6/2014	18:27:25					FLOAT HELD WITH 0.5 BBLS FLOW BACK
END JOB	12/6/2014	18:28:47					USED 120 LBS OF SUGAR AND 1-GAL MMCR/GOOD CIRCULATION THROUGH THE ENTIRE JOB
RIG DOWN SAFETY MEETING	12/6/2014	18:45:00					
RIG DOWN	12/6/2014	18:50:00					BLOW DOWN PUMP
RIG DOWN COMPLETE	12/6/2014	20:30:00					
DEPART LOCATION SAFETY MEETING	12/6/2014	20:50:00					NO INJURIES WERE REPORTED AFTER THE JOB
CREW LEAVE LOCATION	12/6/2014	21:00:01					
THANK YOU	12/6/2014	21:01:00					THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

WPX PA 331-27 SURFACE



① CALL OUT n/a;n/a;n/a;n/a	⑩ RIG UP n/a;n/a;n/a;n/a	⑲ TAIL CEMENT 12.87;8;353;0.1	28 RIG DOWN SAFETY MEETING n/a;n/a;n/a;n/a
② DEPARTYARD SAFETY MEETING n/a;n/a;n/a;n/a	⑪ RIG UP COMPLETE 8.33;9.7;469;10.1	20 SHUTDOWN 10.75;0;29;54.8	29 RIG DOWN n/a;n/a;n/a;n/a
③ CREW LEAVE THEYARD n/a;n/a;n/a;n/a	⑫ PRE-JOB SAFETY MEETING 8.23;0;4;0	21 DROPTOP PLUG 10.88;0;7;0	30 RIG DOWN COMPLETE n/a;n/a;n/a;n/a
④ ARRIVE ON LOCATION n/a;n/a;n/a;n/a	⑬ START JOB 8.23;0;0;0	22 DISPLACEMENT 10.74;3.7;51;0.8	31 DEPART LOCATION SAFETY MEETING n/a;n/a;n/a;n/a
⑤ RIG START RUNNING CASING n/a;n/a;n/a;n/a	⑭ PRIME LINES 8.16;1.9;34;0.2	23 SLOW RATE 8.34;8.7;846;199.1	32 CREW LEAVE LOCATION n/a;n/a;n/a;n/a
⑥ RIG LANDED CASING n/a;n/a;n/a;n/a	⑮ STALL OUT 8.37;0;1238;2.1	24 SLOW RATE 8.28;2.1;648;215.3	33 THANKYOU n/a;n/a;n/a;n/a
⑦ WELL HEAD LEAK n/a;n/a;n/a;n/a	⑯ TEST LINES 8.43;0;3354;2.1	25 BUMP PLUG 8.34;0;1028;220.2	
⑧ SPOTTRUCKS n/a;n/a;n/a;n/a	⑰ WATER SPACER 8.36;0.9;245;2.4	26 CHECK FLOATS 8.33;0;61;220.2	
⑨ RIG UP MEETING n/a;n/a;n/a;n/a	⑱ LEAD CEMENT 12.64;4;161;2	27 END JOB 8.28;0;3;220.2	

▼ **HALLIBURTON** | iCem® Service

Created: 2014-12-06 16:01:30, Version: 4.0.248

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 12/6/2014 4:28:52 PM

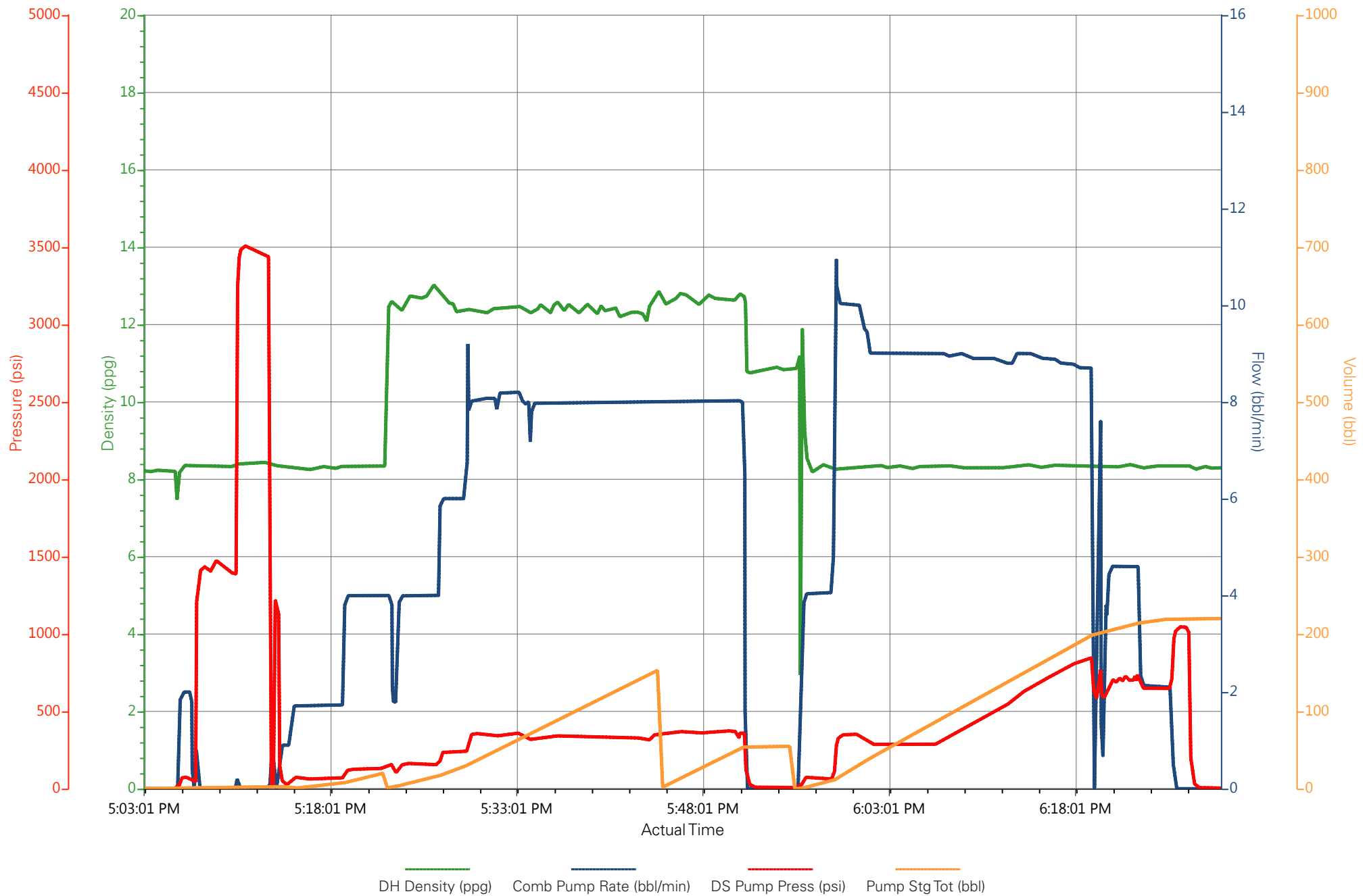
Well: PA 331-27

Representative: RICK OAKS

Sales Order #: 901903924

ELITE #9: J. CASTILLO / PAUL SALAZAR

WPX PA 331-27 SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: JAVIER CASTILLO
Attention: Chuck Ross
Lease: PA
Well #: 331-27

Date: 12/6/2014
Date Rec.: 12/6/2014
S.O.#: 901903924
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	45 Deg
Total Dissolved Solids		410 Mg / L

Respectfully: JAVIER CASTILLO

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 its u

Sales Order #: 0901903924	Line Item: 10	Survey Conducted Date: 12/6/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-22243-00
Well Name: FEDERAL		Well Number: 0080244863
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	12/6/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB85312
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	
Survey Conducted Date The date the survey was conducted	12/6/2014

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.	16
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.	1.5
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

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Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-22243-00
Well Name: FEDERAL		Well Number: 0080244863
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	90
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