

WPX Energy Rocky Mountain LLC-EBUS

RWF 331-23

Nabors 577

Post Job Summary

Cement Production Casing

Date Prepared: 01/09/2015

Job Date: 01/02/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3122909	Quote #: 0021978900	Sales Order #: 0901970165
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: VEARL TUCKER	
Well Name: MEAD -RWF-		Well #: 331-23	API/UWI #: 05-045-20053-00
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SE-23-6S-94W-2303FSL-234FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 577	
Job BOM: 7523			
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	9516ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 4ft
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	12		0
Casing		4.5	4	11.6			0	9516		0
Open Hole Section			8.75				12	9536	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	4.5	1				Top Plug	4.5	1	HES
Float Shoe	4.5	1		9516		Bottom Plug	4.5		
Float Collar	4.5	1		9482		SSR plug set	4.5		
Insert Float	4.5	1				Plug Container	4.5	1	HES
Stage Tool	4.5	1				Centralizers	4.5		

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	10	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 GJ2	VARICEM (TM) CEMENT	1370	sack	14.2	1.33		8	5.78	

5.85 Gal		FRESH WATER							
0.20 %		HR-5, 50 LB SK (100005050)							
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	Fresh Water Displacement	Fresh Water Displacement	147.0	bbl	8.34			8	
Cement Left In Pipe		Amount	34 ft		Reason		Shoe Joint		
Comment									

Summary Report



Crew: _____

Job Start Date: 1/2/2015

Sales Order #: 0901970165
WO #: 0901970165
PO/AFE #: NA

Customer:	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Field:	RULISON	Job Type:	CMT PRODUCTION CASING BOM
UWI / API Number:	05-045-20053-00	County/Parish:	GARFIELD	Service Supervisor:	Thomas Ponder
Well Name:	MEAD -RWF-	State:	COLORADO		
Well No:	331-23	Latitude:	39.510040	Cust Rep Name:	VEARL TUCKER
		Longitude:	-107.847026	Cust Rep Phone #:	
		Sect / Twn / Rng:	23/6/94		

Remarks:

The Information Stated Herein Is Correct	Customer Representative Signature	Date
	Customer Representative Printed Name	

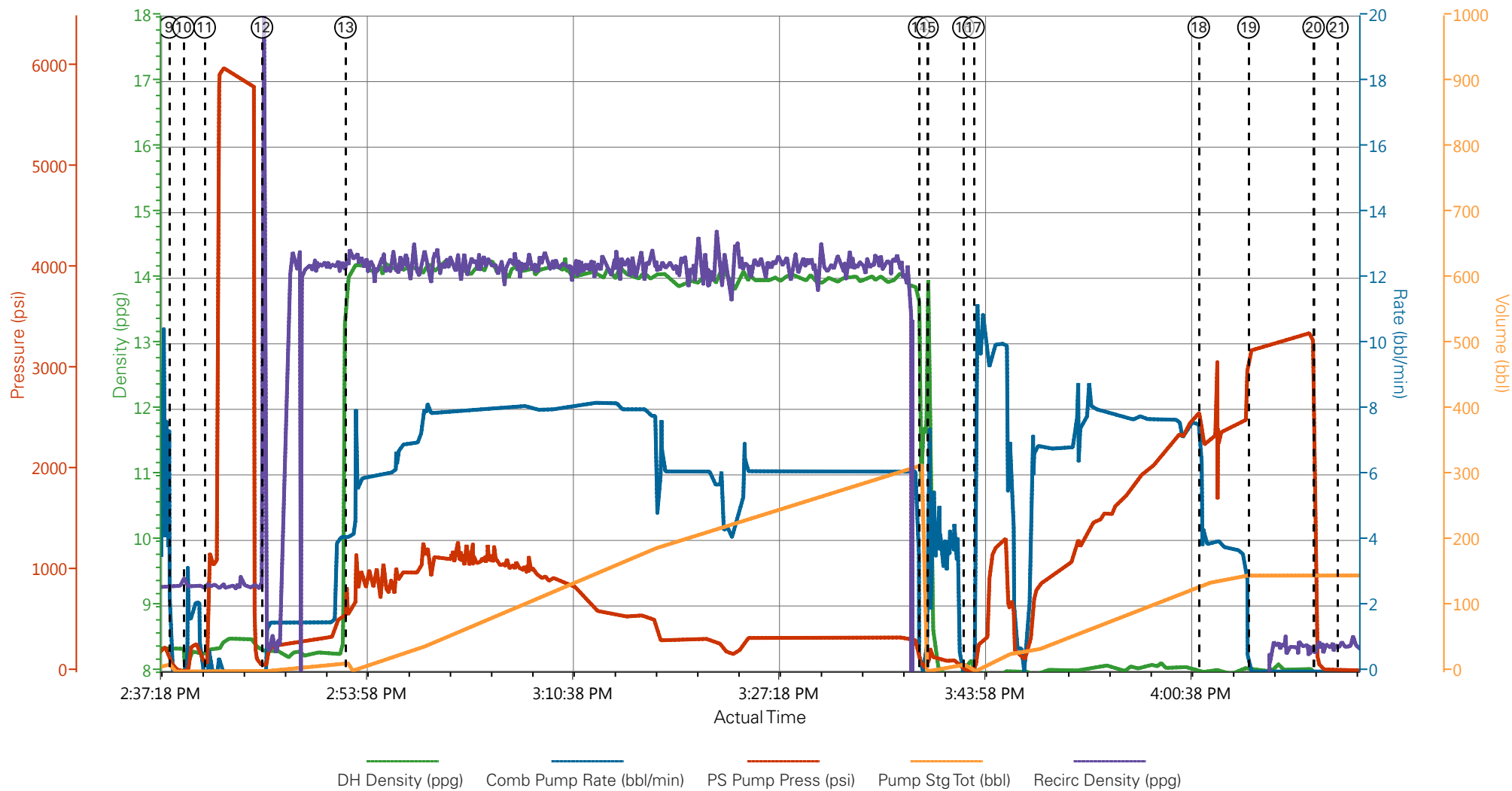
1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Recirc Density (ppg)	Comment
Event	1	Call Out	Call Out	1/2/2015	05:00:00	USER						ON LOCATION TIME @ 1100 ON 01/02/2015
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/2/2015	07:45:00	USER						ALL PERSONNEL INVOLVED WITH THE CONVOY PRESENT FOR THE MEETING
Event	3	Crew Leave Yard	Crew Leave Yard	1/2/2015	08:00:00	USER						ALL VEHICLES LEFT THE YARD AT THE SAME TIME
Event	4	Arrive At Loc	Arrive At Loc	1/2/2015	10:00:00	USER						RIG WAS STILL RUNNING CASING WHEN THE CREW ARRIVED ON LOCATION
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	1/2/2015	12:00:00	USER						TD - 9536', TP - 9516', SJ - 34', MUD - 12.8 PPG, OPEN HOLE - 8 3/4", SURFACE CASING - 9 5/8" 32.3# H-40 SET @ 1218', PRODUCTION CASING - 4 1/2" 11.6# I-80
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/2/2015	12:15:00	USER						JSA PERFORMED, SIM OPS ON LOCATION TALKED WITH SUPERVISORS
Event	7	Rig-Up Equipment	Rig-Up Equipment	1/2/2015	12:30:00	USER						1 - 550 PICKUP TRUCK, 1 - ELITE PUMPING UNIT, 1 - 660 CUFT BULK TRAILER, 1 - 1700 CUFT STORAGE SILO, 1 - 4 1/2" PLUG CONTAINER, QHICK LATCH, AND TOP PLUG, 2" CIRCULATING IRON
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/2/2015	14:30:00	USER						ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 1130
Event	9	Start Job	Start Job	1/2/2015	14:38:14	COM7						RIGGED UP FROM STAND PIPE TO PLUG CONTAINER, PRIMED UP THE PUMP
Event	10	Prime Pumps	Prime Pumps	1/2/2015	14:39:24	COM7	8.33	2	278	2		FILL LINES WITH FRESH

											WATER
Event	11	Test Lines	Test Lines	1/2/2015	14:41:07	COM7		.1	6040	.1	GOOD PRESSURE TEST NO LEAKS IN THE LINES
Event	12	Pump Spacer 1	Pump Spacer 1	1/2/2015	14:45:45	COM7	8.33	4	533	10	FRESH WATER, WEIGHED UP THE FIRST TUB OF CEMENT WITH PRESSURIZED MUD SCALES
Event	13	Pump Lead Cement	Pump Lead Cement	1/2/2015	14:52:30	COM7	14.2	8	1200	324.5	1370 SKS 14.2 PPG 1.33 FT3/SK 5.78 GAL/SK, HAD TO SLOW RATE AT THE END OF THE SILO BECAUSE OF CEMENT DELIVERY
Event	14	Shutdown	Shutdown	1/2/2015	15:38:54	USER					DOWNHOLE DENSOMETER STARTED TO SLOWLY WALK DOWN FROM THE MIDDLE OF TAIL CEMENT, RECIRC DENSOMETER WAS ADDED TO THE CHART TO SHOW THAT THE MUD CUPS THAT WERE WEIGHED AGAINST THE RECIRC WERE THE CORRECT DENSITY, BBL COUNTER SAID WE ONLY PUMPED 315 BBL OF THE CALCULATED 324 BBL, BASED OFF OF MIX WATER IT SHOWS WE PUMPED THE CORRECT AMOUNT OF CEMENT
Event	15	Clean Lines	Clean Lines	1/2/2015	15:39:34	USER					WASHED UP PUMPS AND LINES TO A WASH UP TRUCK
Event	16	Drop Top Plug	Drop Top Plug	1/2/2015	15:42:28	COM7					PLUG DROP VERIFIED VIA TATTLE TELL BY CO REP
Event	17	Pump Displacement	Pump Displacement	1/2/2015	15:43:18	COM7	8.5	8	2592	137	FRESH WATER, 3# BE-6, 1 GAL MMCR, 2% KCL SUPPLIED BY THE RIG, HAD TO SLOW RATE @ 20 BBL AWAY DUE TO NOT

											GETTING WATER ONTO THE PUMP TRUCK, THEN WE WERE ONLY ABLE TO PULL ON WATER FAST ENOUGH TO GO 8 BPM
Event	18	Slow Rate	Slow Rate	1/2/2015	16:01:30	USER	8.5	4	2218	10	GOOD RETURNS THROUGH OUT THE JOB
Event	19	Bump Plug	Bump Plug	1/2/2015	16:05:31	COM7	8.5	4	2495	147	PLUG BUMPED
Event	20	Check Floats	Check Floats	1/2/2015	16:10:48	USER			3365	147	FLOATS HELD, 2 BBL BACK TO THE DISPLACEMENT TANKS
Event	21	End Job	End Job	1/2/2015	16:12:43	COM7					THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

WPX - MEAD RWF 331-23 - 4.5 IN PRODUCTION



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

▼ **HALLIBURTON** | iCem® Service

Created: 2015-01-02 13:27:15, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/2/2015 1:28:49 PM

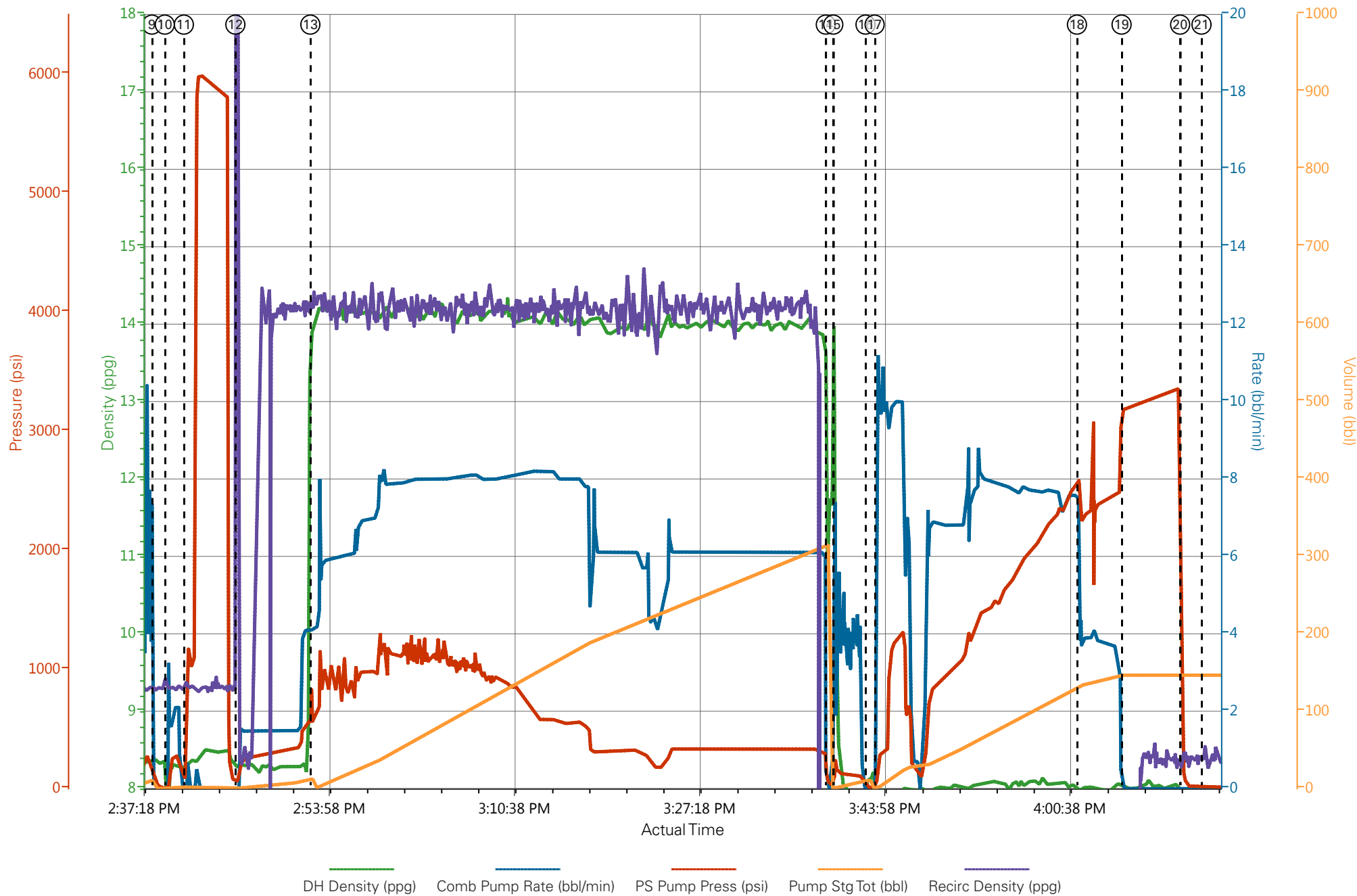
Well: MEAD - RWF - 331-23

Representative: VEARL TUCKER

Sales Order #: 901970165

ELITE #9: KEVIN BENNET / THOMAS PONDER

WPX - MEAD RWF 331-23 - 4.5 IN PRODUCTION



HALLIBURTON

Company:	<u>WPX</u>	Date:	<u>1/2/2015</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>1/2/2015</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>901970165</u>
Lease	<u>MEAD - RWF -</u>	Job Type:	<u>PRODUCTION</u>
Well #	<u>331-23</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>78.9</i> Deg
Total Dissolved Solids		<i>325</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

Sales Order #: 0901970165	Line Item: 10	Survey Conducted Date: 1/2/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20053-00
Well Name: MEAD -RWF-		Well Number: 0080124706
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	1/2/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	1/2/2015
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20053-00
Well Name: MEAD -RWF-		Well Number: 0080124706
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	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