

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 543-26-198

Cyclone 29

Post Job Summary

Cement Surface Casing

Date Prepared: 12/08/2014
Job Date: 11/30/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3124439		Quote #:		Sales Order #: 0901873938	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: RICK MORTIMER			
Well Name: FEDERAL			Well #: RGU 543-26-198			API/UWI #: 05-103-11964-00	
Field: SULPHUR CREEK		City (SAP): MEEKER		County/Parish: RIO BLANCO		State: COLORADO	
Legal Description: 26-1S-98W-2473FNL-914FEL							
Contractor: CYCLONE				Rig/Platform Name/Num: CYCLONE 29			
Job BOM: 392189							
Well Type: DIRECTIONAL GAS							
Sales Person: HALAMERICA\HB50180				Srvc Supervisor: Dustin Smith			

Job

Formation Name	
Formation Depth (MD)	Top
Form Type	BHST
Job depth MD	4000ft
Water Depth	
Perforation Depth (MD)	From

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
Open Hole Section			14.75				0	1618		0
Casing		9.625	8.921	36			0	4000		0
Open Hole Section			13.5				1618	4000	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		4000	Top Plug	9.625	1	
Float Shoe	9.625	1			Bottom Plug			
Float Collar	9.625	1		3975.95	SSR plug set			
Insert Float	9.625	1			Plug Container	9.625	1	HES
Stage Tool	9.625	1		1803.44	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	40	bbl	8.33			4.0		
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	VersaCem GJ1	VERSACEM (TM) SYSTEM	615	sack	12.8	1.77		8.0	9.31
9.33 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
3	VariCem GJ1	VARICEM (TM) CEMENT	225	sack	12.8	2.11		8.0	11.77
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	306.7	bbl	8.3			10.0	
Cement Left In Pipe		Amount	45 ft		Reason		Shoe Joint		
Fluid Data									
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
1	Fresh Water	Fresh Water	20	bbl	8.3			4.0	
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 GJ5	VARICEM (TM) CEMENT	980	sack	12.8	2.18		8.0	12.11
12.05 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
3	Fresh Water Displacement	Fresh Water Displacement	139.4	bbl	8.3			10.0	
Cement Left In Pipe		Amount	24.05 ft		Reason		Shoe Joint		
Comment									

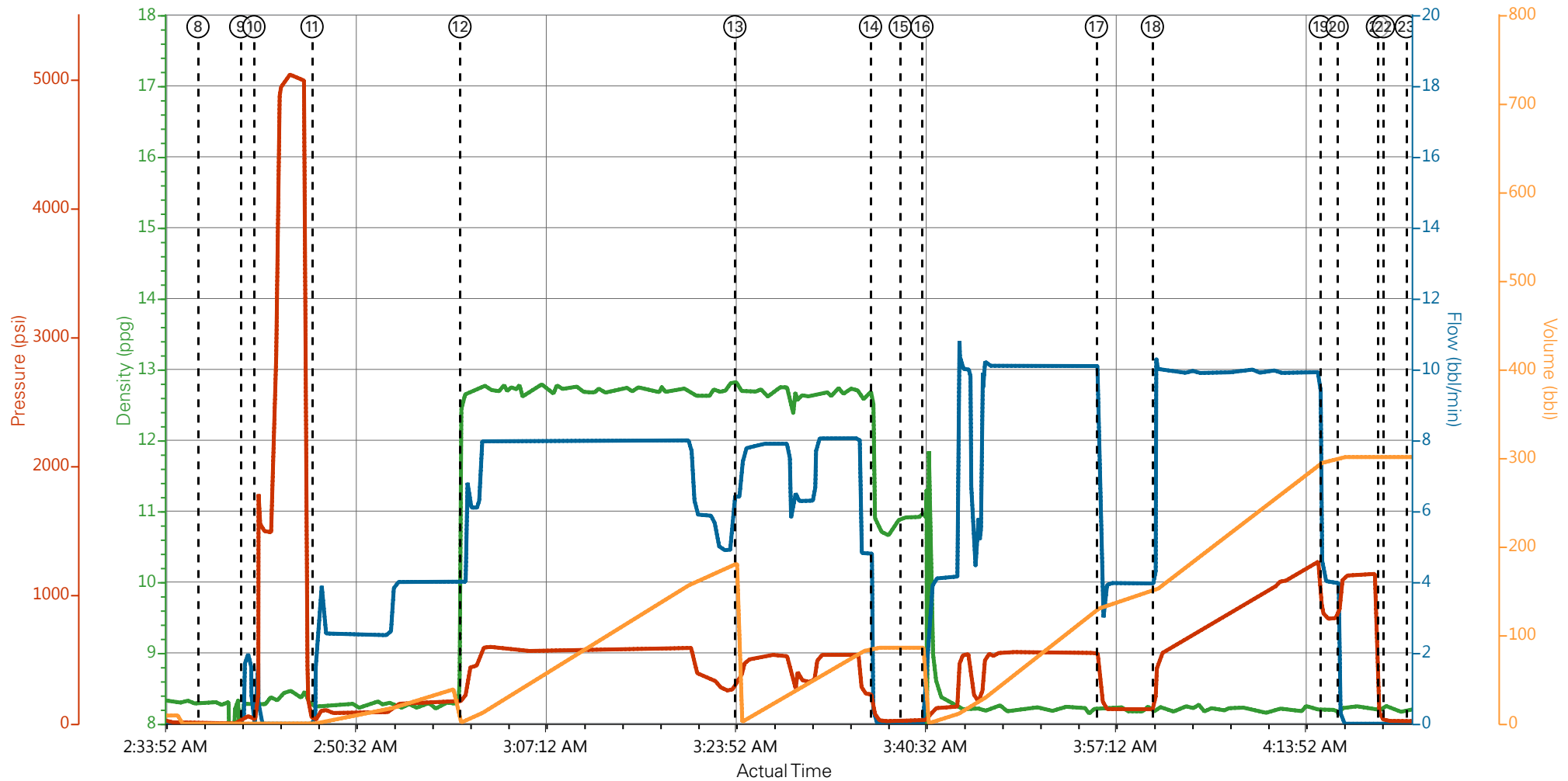
3.5 Job Event Log

Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	11/29/2014	15:00:00	USER					ELITE # 3
Event	2	Pre-Convoy Safety Meeting	11/29/2014	17:00:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	11/29/2014	22:00:00	USER					ARRIVED ON LOCATION 1 HOUR EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME RIG RUNNING CASING
Event	4	Assessment Of Location Safety Meeting	11/29/2014	23:00:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	11/29/2014	23:10:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	11/29/2014	23:20:00	USER					1 HT-400 PUMP TRUCK (ELITE #3) 2 660 BULK TRUCKS 2 SILOS 1 F-550 PICKUP
Event	7	Pre-Job Safety Meeting	11/30/2014	01:30:00	USER					ALL HES EMPLOYEES AND RIG CREW
Event	8	Start Job	11/30/2014	02:37:00	USER					TD: 4006 TP: 4000 SJ: 24.05 CSG: 421.01' OF 9 5/8 40# 9 5/8 36# J-55 OH: 14 3/4 TO 1618 13 1/2 FROM 1618 TO TD MUD WT: 8.8 PPG
Event	9	Prime Lines	11/30/2014	02:40:44	COM5	8.33	2.0	64	2.0	PRIME LINES WITH 2 BBLS FRESH WATER
Event	10	Test Lines	11/30/2014	02:41:54	COM5	8.33	0.0	5044	2.0	PRESSURE TEST OK
Event	11	Pump Fresh Water Spacer	11/30/2014	02:47:00	COM5	8.33	4.0	172	40	PUMP 40 BBL FRESH WATER SPACER
Event	12	Pump Lead Cement	11/30/2014	02:59:58	COM5	12.8	8.0	602	193.9	615 SKS 12.8 PPG 1.77 YIELD 9.31 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES 3 1/2 BOXES TUFF FIBER IN 1ST 100 BBLS OF LEAD CEMENT
Event	13	Pump Tail Cement	11/30/2014	03:24:06	COM5	12.8	8.0	541	84.6	225 SKS 12.8 PPG 2.11 YIELD 11.77 GAL/SK

Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES										
Event	14	Shutdown	11/30/2014	03:36:00	COM5					
Event	15	Drop Top Plug	11/30/2014	03:38:36	COM5					DROP 1ST STAGE PLUG
Event	16	Pump Displacement	11/30/2014	03:40:30	COM5	8.33	10.0	1260	306.7	FRESH WATER DISPLACEMENT
Event	17	Slow Rate	11/30/2014	03:55:49	COM5	8.33	4.0	225	129	SLOW RATE THROUGH MSC
Event	18	Increase Rate	11/30/2014	04:00:43	COM5	8.33	10.0	1260	149	INCREASE RATE AFTER PLUG PASSED THROUGH MSC
Event	19	Slow Rate	11/30/2014	04:15:27	COM5	8.33	4.0	831	291	SLOW RATE TO BUMP PLUG
Event	20	Bump Plug	11/30/2014	04:16:55	COM5	8.33	4.0	1163	306.7	PSI BEFORE BUMPING PLUG @ 831 BUMPED PLUG UP TO 1163 PSI
Event	21	Check Floats	11/30/2014	04:20:28	USER					FLOATS HELD 1 1/2 BBLS BACK TO DISPLACEMENT TANKS
Event	22	Comment	11/30/2014	04:21:00	USER					GOOD RETURNS THROUGHOUT 1 STAGE OF THE JOB
Event	23	Drop Opening Device	11/30/2014	04:23:00	COM5					DROP OPENING DEVICE AND WAIT 15 MINS
Event	24	Open Multiple Stage Cementer	11/30/2014	04:43:31	COM5	8.33	1.0	670	1.0	OPEN MSC @ 670 PSI
Event	25	Pump Fresh Water Spacer	11/30/2014	04:45:00	USER	8.33	4.0	150	30	PUMP 30 BBL FRESH WATER SPACER
Event	26	Pump Lead Cement	11/30/2014	04:56:23	COM5	12.8	8.0	606	380.5	980 SKS 12.8 PPG 2.18 YIELD 12.11 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES 3 1/2 BOXES OF TUFF FIBER ADDED TO THE LAST 100 BBLS OF CEMENT
Event	27	Shutdown	11/30/2014	05:48:25	COM5					
Event	28	Drop Closing Plug	11/30/2014	05:51:28	COM5					PLUG AWAY NO PROBLEMS
Event	29	Pump Displacement	11/30/2014	05:52:39	COM5	8.33	10.0	640	139.4	FRESH WATER DISPLACEMENT

Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	30	Slow Rate	11/30/2014	06:09:22	COM5	8.33	4.0	328	129	SLOW RATE TO BUMP PLUG / CLOSE TOOL
Event	31	Bump Plug	11/30/2014	06:10:36	COM5	8.33	4.0	1752	139.4	PSI BEFORE BUMPING PLUG @ 328 BUMPED PLUG UP TO 1752 PSI TO CLOSE TOOL
Event	32	Check Floats	11/30/2014	06:15:04	COM5					FLOATS HELD 1 BBL BACK TO DISPLACEMENT TANKS
Event	33	End Job	11/30/2014	06:15:35	COM5					HAD GOOD RETURNS UNTIL 115 BBLS INTO CEMENT WHEN RETURNS WERE LOST GAINED RETURNS 150 BBLS INTO CEMENT AND MAINTAINED RETURNS UNTIL THE LAST 10 BBLS OF CEMENT AND NEVER GAINED RETURNS AGAIN
Event	34	Comment	11/30/2014	06:17:15	USER					RETURNED 60 BBLS OF CEMENT OFF THE TOP OF THE STAGE TOOL FROM THE 1ST STAGE
Event	35	Pre-Rig Down Safety Meeting	11/30/2014	10:39:20	USER					ALL HES EMPLOYEES CREW RELEASED FROM LOCATION @ 1030 RIG TAGGED CEMENT @ 180' DOWN
Event	36	Rig-Down Equipment	11/30/2014	10:39:36	USER					
Event	37	Pre-Convoy Safety Meeting	11/30/2014	10:39:48	USER					ALL HES EMPLOYEES
Event	38	Crew Leave Location	11/30/2014	10:39:56	USER					THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

WPX - FEDERAL RGU 543-26-198 - 1ST STAGE



— DH Density (ppg)
 — Comb Pump Rate (bbl/min)
 — PS Pump Press (psi)
 — Pump Stg Tot (bbl)

- | | | | | | |
|---|---------------------------|---------------------|---------------------------------|----------------------------|-----------------|
| ① Call Out | ⑦ Pre-Job Safety Meeting | ⑬ Pump Tail Cement | ⑲ Slow Rate | 25 Pump Fresh Water Spacer | 31 Bump Plug |
| ② Pre-Convoy Safety Meeting | ⑧ Start Job | ⑭ Shutdown | 20 Bump Plug | 26 Pump Lead Cement | 32 Check Floats |
| ③ Arrive At Loc | ⑨ Prime Lines | ⑮ Drop Top Plug | 21 Check Floats | 27 Shutdown | 33 End Job |
| ④ Assessment Of Location Safety Meeting | ⑩ Test Lines | ⑯ Pump Displacement | 22 Comment | 28 Drop Top Plug | 34 Comment |
| ⑤ Pre-Rig Up Safety Meeting | ⑪ Pump Fresh Water Spacer | ⑰ Slow Rate | 23 Drop Opening Device | 29 Pump Displacement | |
| ⑥ Rig-Up Equipment | ⑫ Pump Lead Cement | ⑱ Increase Rate | 24 Open Multiple Stage Cementer | 30 Slow Rate | |

▼ **HALLIBURTON** | iCem® Service

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Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 11/30/2014 12:39:24 AM

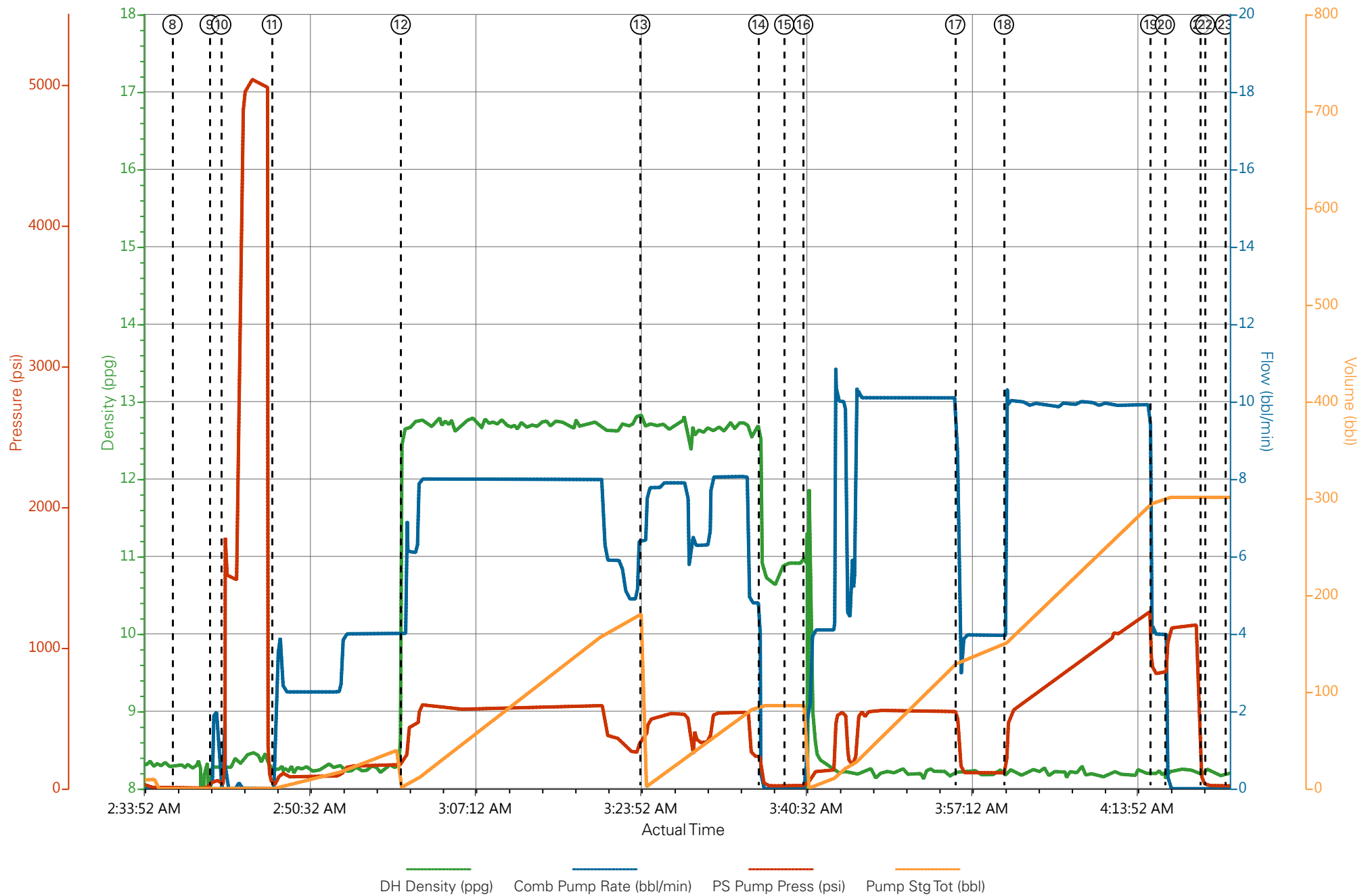
Well: FEDERAL RGU 543-26-198

Representative: RICK MORTIMER

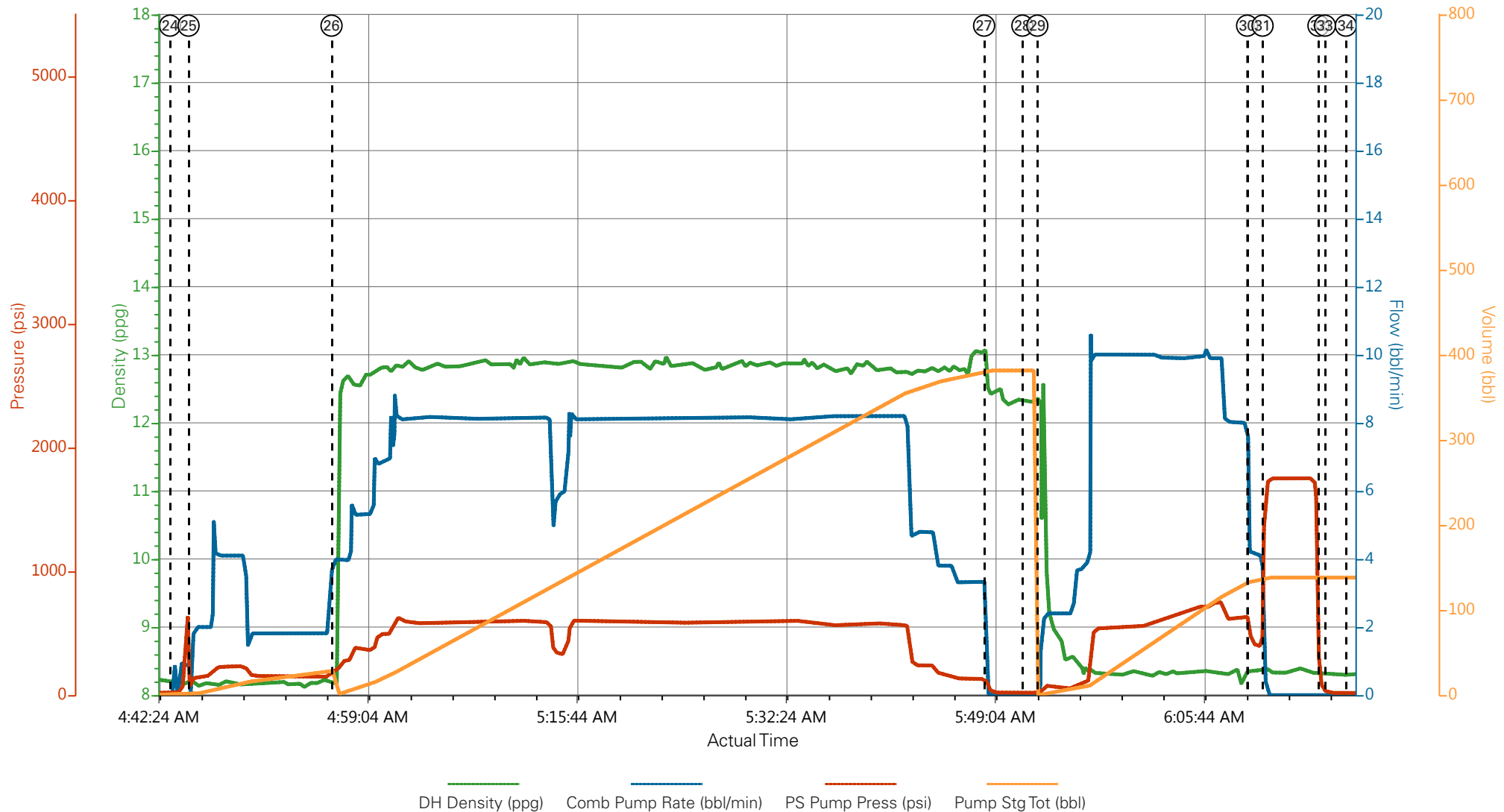
Sales Order #: 0901873938

ELITE # 3: DUSTIN SMITH / BEN ROSE

WPX - FEDERAL RGU 543-26-198 - 1ST STAGE



WPX - FEDERAL RGU 543-26-198 - 2ND STAGE



- | | | | | | |
|---|---------------------------|---------------------|---------------------------------|----------------------------|-----------------|
| ① Call Out | ⑦ Pre-Job Safety Meeting | ⑬ Pump Tail Cement | ⑰ Slow Rate | 25 Pump Fresh Water Spacer | 31 Bump Plug |
| ② Pre-Convoy Safety Meeting | ⑧ Start Job | ⑭ Shutdown | 20 Bump Plug | 26 Pump Lead Cement | 32 Check Floats |
| ③ Arrive At Loc | ⑨ Prime Lines | ⑮ Drop Top Plug | 21 Check Floats | 27 Shutdown | 33 End Job |
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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-
EBUS

Job Date: 11/30/2014 12:39:24 AM

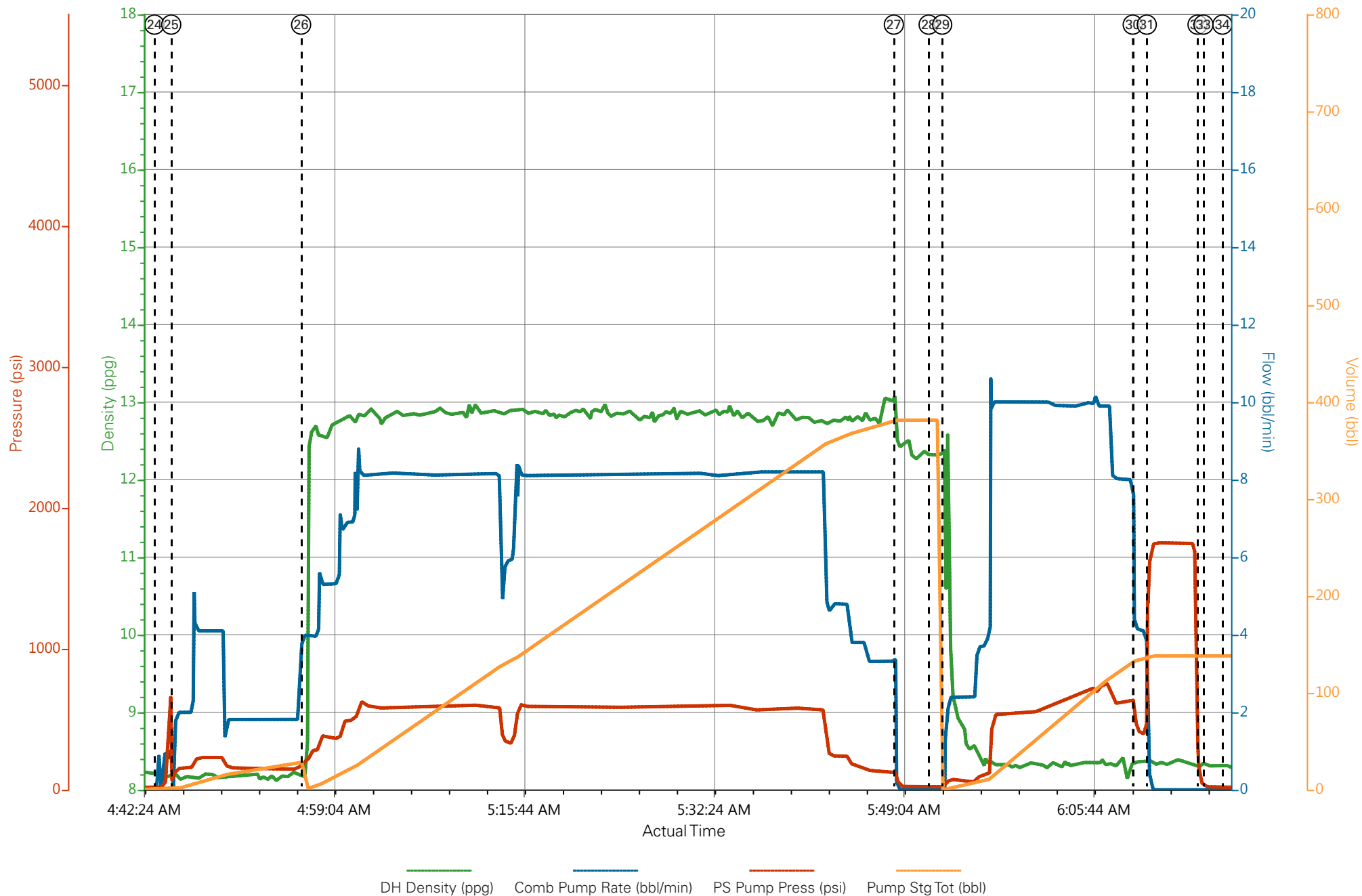
Well: FEDERAL RGU 543-26-198

Representative: RICK MORTIMER

Sales Order #: 0901873938

ELITE # 3: DUSTIN SMITH / BEN ROSE

WPX - FEDERAL RGU 543-26-198 - 2ND STAGE



HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: DUSTIN SMITH

Attention:

Lease FEDERAL RGU

Well # 543-26-198

Date: 11/30/2014

Date Rec.:

S.O.# 901873938

Job Type: 2 STAGE 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>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-90</i>	64 Deg
Total Dissolved Solids		970 Mg / L

Respectfully: DUSTIN SMITH

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

Sales Order #: 0901873938	Line Item: 10	Survey Conducted Date: 11/30/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-103-11964-00
Well Name: FEDERAL		Well Number: 0080129267
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

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	11/30/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
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

Sales Order #: 0901873938	Line Item: 10	Survey Conducted Date: 11/30/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-103-11964-00
Well Name: FEDERAL		Well Number: 0080129267
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	11/30/2014
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	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	6
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?	
Pumping Hours	4
Total number of hours pumping fluid on this job. Enter in decimal format.	
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	
Was this a Primary Cement Job (Yes / No)	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Customer Non-Productive Rig Time (hrs)	0

Sales Order #: 0901873938	Line Item: 10	Survey Conducted Date: 11/30/2014
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Customer Representative:		API / UWI: (leave blank if unknown) 05-103-11964-00
Well Name: FEDERAL		Well Number: 0080129267
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

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.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
If a top plug was run, was the plug bumped? (Yes/No/N/A) If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A)	Yes
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
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	90
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	NO
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