

WPX Energy Rocky Mountain LLC-EBUS

RGU 44-23-198

**Aztec 1000**

## **Post Job Summary**

### **Surface Casing**

Date Prepared: 01/31/2015

Job Date: 01/12/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

## The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3560647		Quote #: 0021979595		Sales Order #: 0902024175	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: BRANDON HAIRE			
Well Name: FEDERAL			Well #: RGU 44-23-198			API/UWI #: 05-103-12136-00	
Field: SULPHUR CREEK		City (SAP): MEEKER		County/Parish: RIO BLANCO		State: COLORADO	
Legal Description: SE SE-23-1S-98W-1048FSL-623FEL							
Contractor: AZTEC DRLG				Rig/Platform Name/Num: AZTEC 1000			
Job BOM: 392189							
Well Type: DIRECTIONAL GAS							
Sales Person: HALAMERICA\HB50180				Srvc Supervisor: Dustin Smith			

## Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	3898ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 5 FT
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
Open Hole Section			14.75				0	1705		0
Casing		9.625	8.921	36			0	3898		0
Open Hole Section			13.5				1705	3910	0	0

## Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		3898	Top Plug	9.625	1	weatherford
Float Shoe	9.625	1						
Float Collar	9.625	1		3853.59				
Insert Float	9.625	1			Plug Container	9.625	1	HES
Stage Tool	9.625	1		1749.41	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	710	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	240	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	297.9	bbl	8.3			13	
Cement Left In Pipe		Amount	44.21 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	30	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	845	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	135.2	Bbl	8.3			13.0	
4	Topout	Topout	50	sack	15.6	1.21	5.4	1.5	
Cement Left In Pipe		Amount			Reason		Shoe Joint		
Comment									

## 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)	Comments
Event	1	Call Out	Call Out	1/12/2015	09:00:00	USER					ELITE #9
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/12/2015	11:30:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	Arrive At Loc	1/12/2015	14:00:00	USER					ARRIVED ON LOCATION 2 HOURS EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME RIG RUNNING CASING UPON HES ARRIVAL
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	1/12/2015	18:00:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/12/2015	18:15:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	Rig-Up Equipment	1/12/2015	18:30:00	USER					1HT-400 PUMP TRUCK (ELITE # 9 ) 2 SILOS 1 660 BULK TRUCK 1 F-550 PICKUP
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/12/2015	22:00:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED FOR 2 HOURS PRIOR TO THE JOB
Event	8	Start Job	Start Job	1/12/2015	23:07:00	USER					TD: 3910 TP: 3898 SJ: 44.41 CSG: 9 5/8 36# J-55 OH: 14 3/4 TO 1705 13 1/2 FROM 1705 TO TD MUD WT: 9.3 PPG MSC@ 1749.41
Event	9	Prime Pumps	Prime Lines	1/12/2015	23:08:45	COM5	8.33	2.00	45	2.0	PRIME PUMPS WITH 2

BBLS FRESH WATER											
Event	10	Test Lines	Test Lines	1/12/2015	23:10:37	COM5	8.33	0.0	5870	2.0	PRESSURE TEST OK
Event	11	Pump Spacer 1	Pump Fresh Water Spacer	1/12/2015	23:15:52	COM5	8.33	4.0	105	40	PUMP 40 BBL FRESH WATER SPACER
Event	12	Pump Lead Cement	Pump Lead Cement	1/12/2015	23:27:24	COM5	12.8	8.0	480	223.8	710 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 ADDED TO 1ST 100 BBLS OF LEAD
Event	13	Pump Tail Cement	Pump Tail Cement	1/12/2015	23:54:52	COM5	12.8	8.0	470	90.2	240 SKS 12.8 PPG 2.11 YIELD 11.77 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	14	Shutdown	Shutdown	1/13/2015	00:07:00	USER					
Event	15	Drop Top Plug	Drop Top Plug	1/13/2015	00:09:00	USER					PLUG AWAY NO PROBLEMS
Event	16	Pump Displacement	Pump Displacement	1/13/2015	00:10:52	COM5	8.33	13	960	297.9	FRESH WATER DISPLACEMENT RATE ON DISPLACEMENT WAS ADJUSTED ACCORDING TO HOW FAST WE WERE ABLE TO PULL WATER ONTO THE PUMP
Event	17	Other	Slow Rate	1/13/2015	00:24:13	COM5	8.33	4.0	125	125	SLOW RATE THROUGH MSC
Event	18	Other	Increase Rate	1/13/2015	00:28:13	COM5	8.33	13	960	145	INCREASE RATE AFTER MSC
Event	19	Slow Rate	Slow Rate	1/13/2015	00:40:18	USER	8.33	4.0	620	282	SLOW RATE TO BUMP PLUG

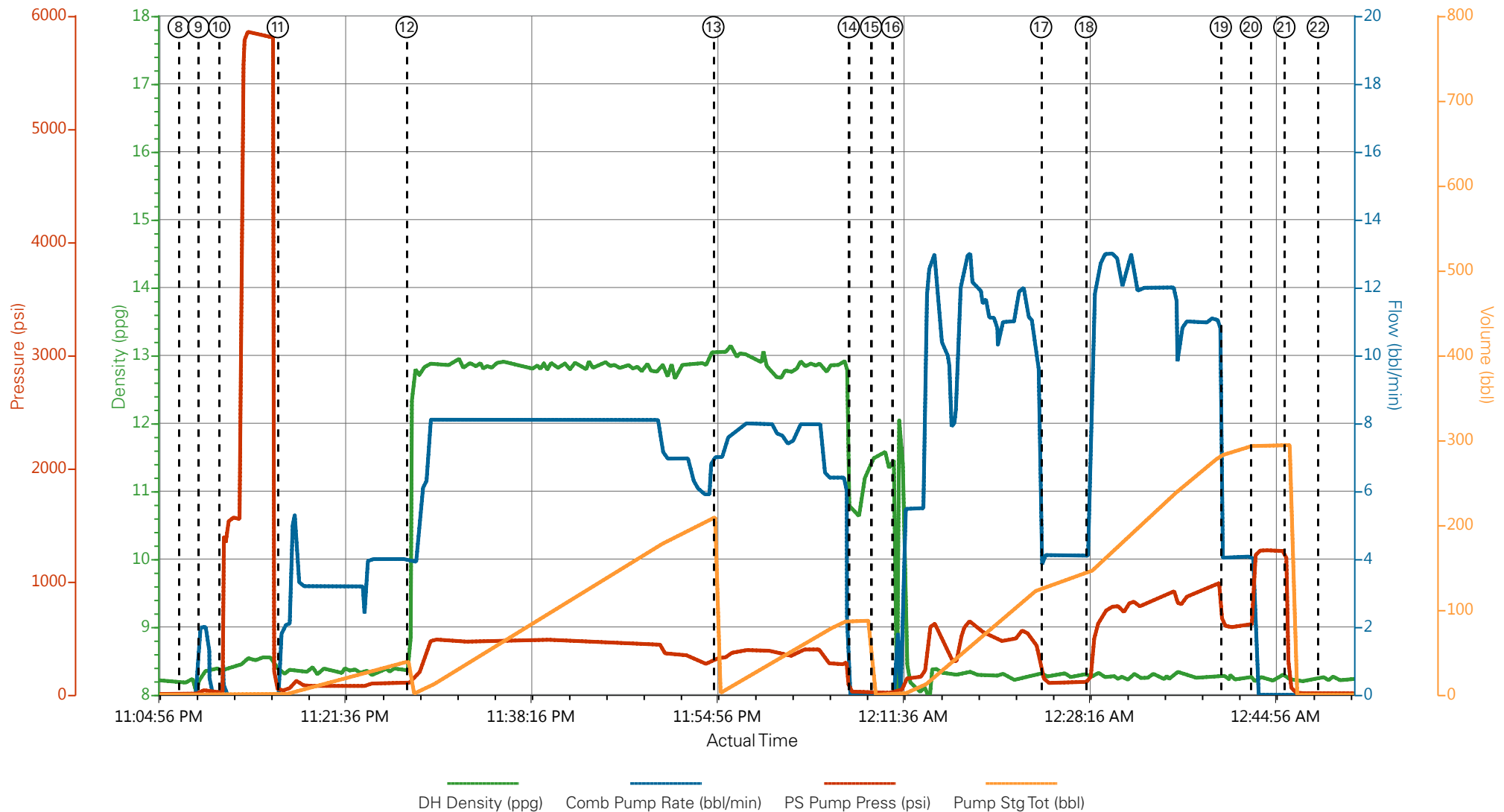
Event	20	Bump Plug	Bump Plug	1/13/2015	00:43:00	COM5	8.33	4.0	1260	297.9	PSI BEFORE BUMPING PLUG @ 620 BUMPED PLUG UP TO 1280 PSI
Event	21	Check Floats	Check Floats	1/13/2015	00:46:00	USER					FLOATS HELD 2 BBLS BACK TO DISPLACEMENT TANKS
Event	22	Drop Plug	Drop Opening Device	1/13/2015	00:49:00	COM5					DROP OPENING DEVICE AND WAIT 15 MINS
Event	23	Open Multiple Stage Cementer	Open Multiple Stage Cementer	1/13/2015	01:04:29	COM5	8.33	1	620	1	PRESSURED UP TO 620 PSI TO OPEN MSC
Event	24	Pump Spacer 1	Pump Fresh Water Spacer	1/13/2015	01:06:15	COM5	8.33	4.0	174	30	PUMP 30 BBL FRESH WATER SPACER
Event	25	Pump Lead Cement	Pump Lead Cement	1/13/2015	01:17:27	COM5	12.8	8.0	460	328.1	845 SKS 12.8 PPG 2.18 YIELD 12.11 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES 3 1/2 BOXES TUFF FIBER ADDED TO LAST 100 BBLS CEMENT
Event	26	Shutdown	Shutdown	1/13/2015	02:00:18	USER					
Event	27	Drop Plug	Drop Plug	1/13/2015	02:00:44	USER					PLUG AWAY NO PROBLEMS
Event	28	Pump Displacement	Pump Displacement	1/13/2015	02:01:00	COM5	8.33	13	1030	135.2	FRESH WATER DISPLACEMENT
Event	29	Slow Rate	Slow Rate	1/13/2015	02:11:24	USER	8.33	4.0	550	125	SLOW RATE TO BUMP PLUG / CLOSE MSC
Event	30	Bump Plug	Bump Plug	1/13/2015	02:13:37	COM5	8.33	4.0	1750	135.2	PSI BEFORE BUMPING PLUG @ 550 BUMPED PLUG UP TO 1750 PSI TO CLOSE MSC
Event	31	Check Floats	Check Floats	1/13/2015	02:16:10	USER					FLOATS HELD 1 BBL BACK TO DISPLACEMENT

											TANKS
Event	32	Pump Cement	Pump Cement	1/13/2015	02:24:11	COM5	12.8	1	0	3	AS PER COMPANY REP LEFT 3 BBLS OF CEMENT IN MIXING TUB FROM 2ND STAGE LEAD TO USE AS TOP OUT AFTER THE JOB
Event	33	Start Job	Start Job	1/13/2015	04:09:00	USER					TOPOUT #1
Event	34	Pump Cement	Pump Cement	1/13/2015	04:09:45	USER	15.6	1.5	0	7	33 SKS 15.6 PPG 1.21 YIELD 5.4 GAL/SK TOPOUT CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES AS PER ARS CHARGED FOR 50 SKS OF TOPOUT AS OUR MINIMUM CEMENT CHARGE
Event	35	Shutdown	Shutdown	1/13/2015	04:15:00	USER					AS PER COMPANY REP WAIT 1 HOUR TO MAKE SURE CEMENT IS STILL AT SURFACE USED 10 GAL INJECTORAL FOR TOPOUT JOB
Event	36	End Job	End Job	1/13/2015	05:20:00	USER					MAINTAINED RETURNS THROUGHOUT THE JOB DID NOT RETURN ANY CEMENT TO SURFACE OFF THE TOP OF THE STAGE TOOL , RETURNED 40 BBLS OF CEMENT TO SURFACE ON THE 2ND STAGE
Event	37	Comment	Comment	1/13/2015	05:25:00	USER					WAITED 1 HOUR AFTER TOPOUT TO WATCH FOR CEMENT TO FALL
Event	38	Pre-Rig Down Safety	Pre-Rig Down Safety	1/13/2015	05:30:00	USER					ALL HES EMPLOYEES

		Meeting	Meeting				
Event	39	Rig-Down Equipment	Rig-Down Equipment	1/13/2015	05:40:00	USER	
Event	40	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/13/2015	06:50:00	USER	ALL HES EMPLOYEES
Event	41	Crew Leave Location	Crew Leave Location	1/13/2015	07:00:00	USER	THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW



# WPX - FEDERAL RGU 44-23-198 - 1ST STAGE



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

▼ **HALLIBURTON** | iCem® Service

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Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/12/2015 8:13:28 PM

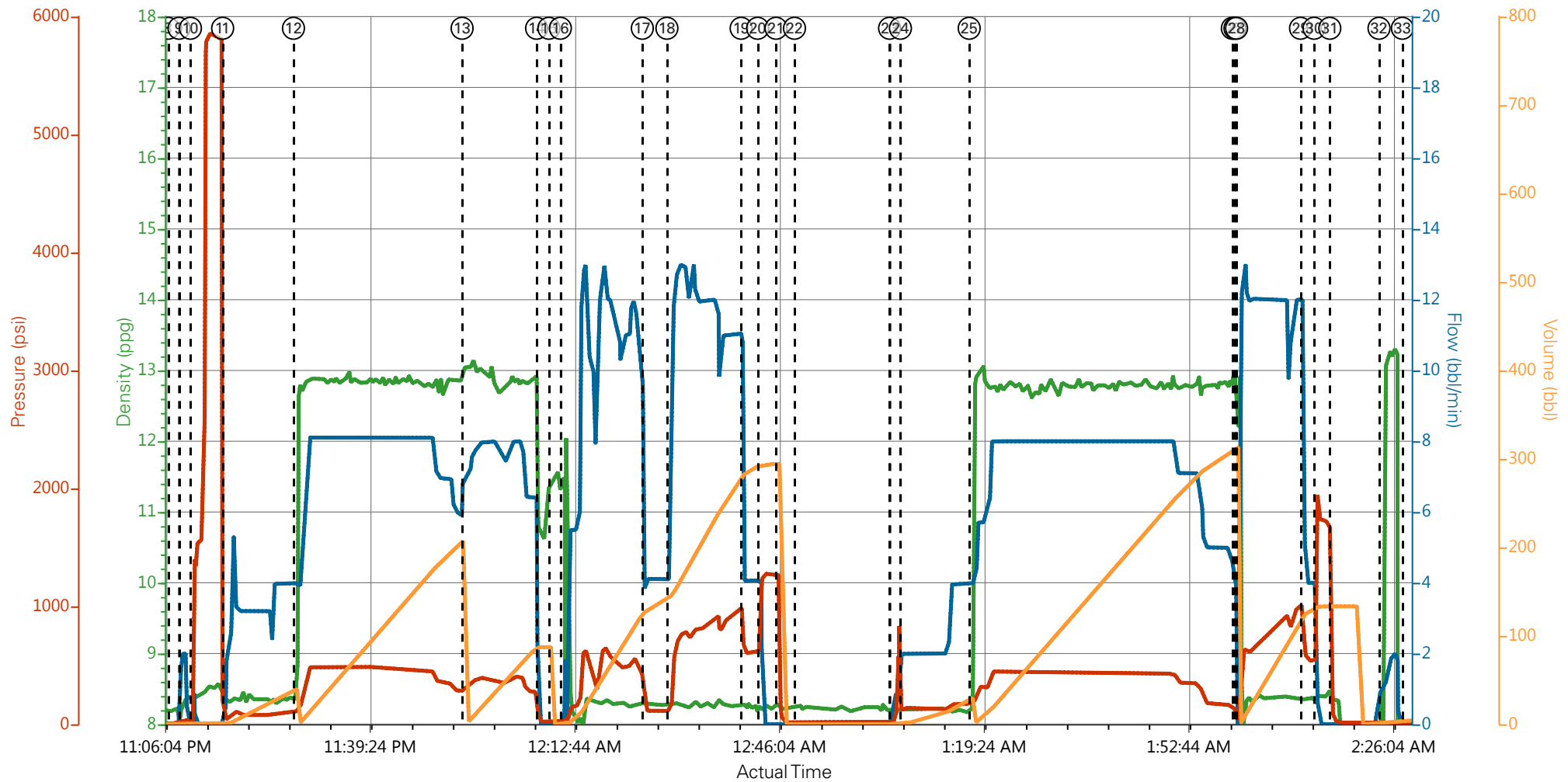
Well: FEDERAL RGU 44-23-198 - 2 STAGE SURFACE

Representative: BRANDON HAIRE

Sales Order #: 0902024175

ELITE # 9: DUSTIN SMITH / ADAM ANDERSON

# WPX - FEDERAL RGU 44-23-198 - 2 STAGE SURFACE



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

- |   |                          |                           |                     |                              |                      |              |
|---|--------------------------|---------------------------|---------------------|------------------------------|----------------------|--------------|
| ① Call Out                              | ⑥ Rig-Up Equipment       | ⑪ Pump Fresh Water Spacer | ⑯ Pump Displacement | 21 Check Floats              | 26 Shutdown          | 31 Check Flo |
| ② Pre-Convoy Safety Meeting             | ⑦ Pre-Job Safety Meeting | ⑫ Pump Lead Cement        | ⑰ Slow Rate         | 22 Drop Opening Device       | 27 Drop Plug         | 32 Pump Ce   |
| ③ Arrive At Loc                         | ⑧ Start Job              | ⑬ Pump Tail Cement        | ⑱ Increase Rate     | 23 Open Multiple Stage Cemen | 28 Pump Displacement | 33 End Job   |
| ④ Assessment Of Location Safety Meeting | ⑨ Prime Lines            | ⑭ Shutdown                | ⑲ Slow Rate         | 24 Pump Fresh Water Spacer   | 29 Slow Rate         | 34 Pre-Rig D |
| ⑤ Pre-Rig Up Safety Meeting             | ⑩ Test Lines             | ⑮ Drop Top Plug           | 20 Bump Plug        | 25 Pump Lead Cement          | 30 Bump Plug         | 35 Rig-Dow   |

**HALLIBURTON** | iCem® Service

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EBUS

Job Date: 1/12/2015 8:13:28 PM

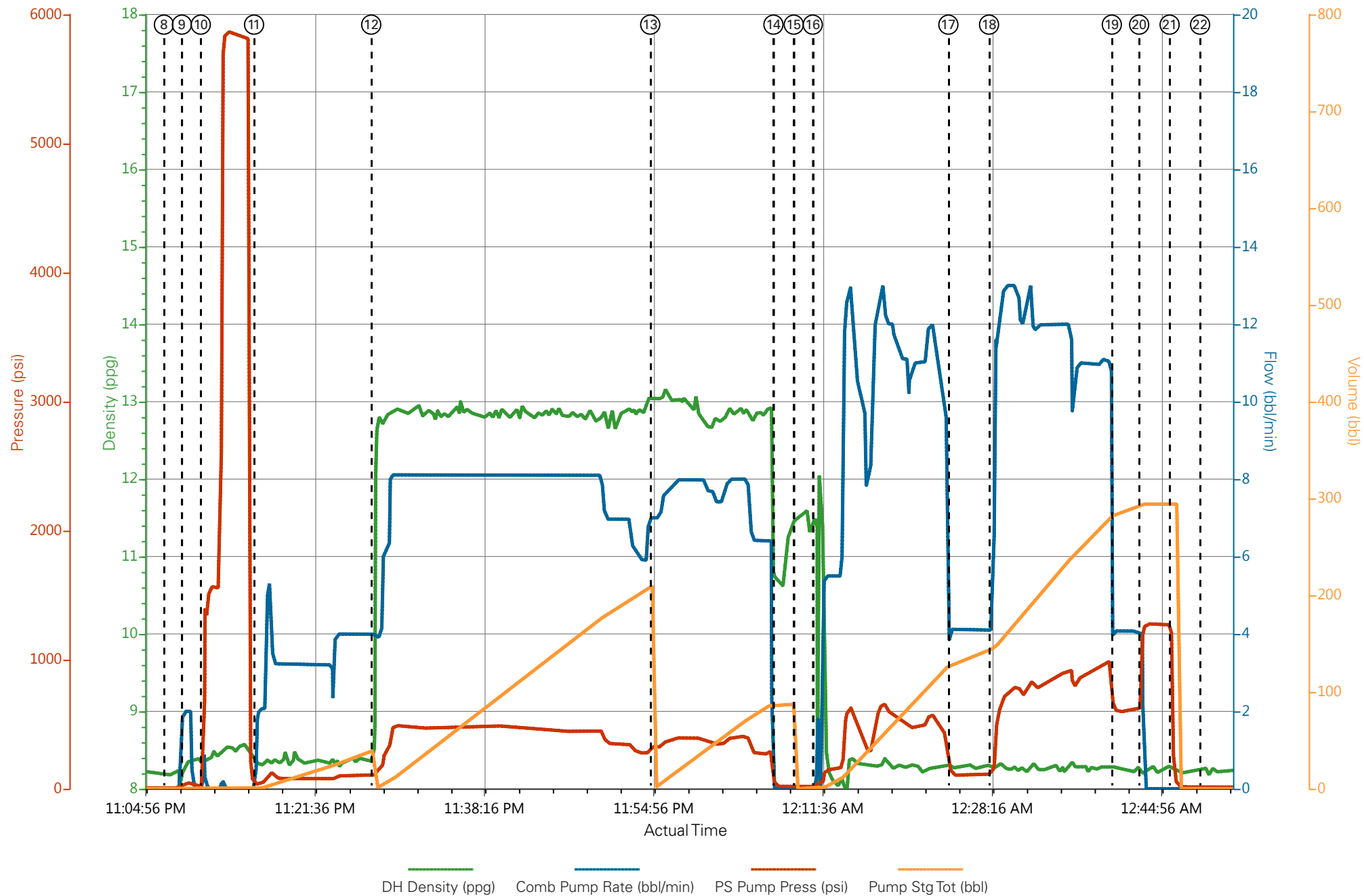
Well: FEDERAL RGU 44-23-198 - 2 STAGE  
SURFACE

Representative: BRANDON HAIRE

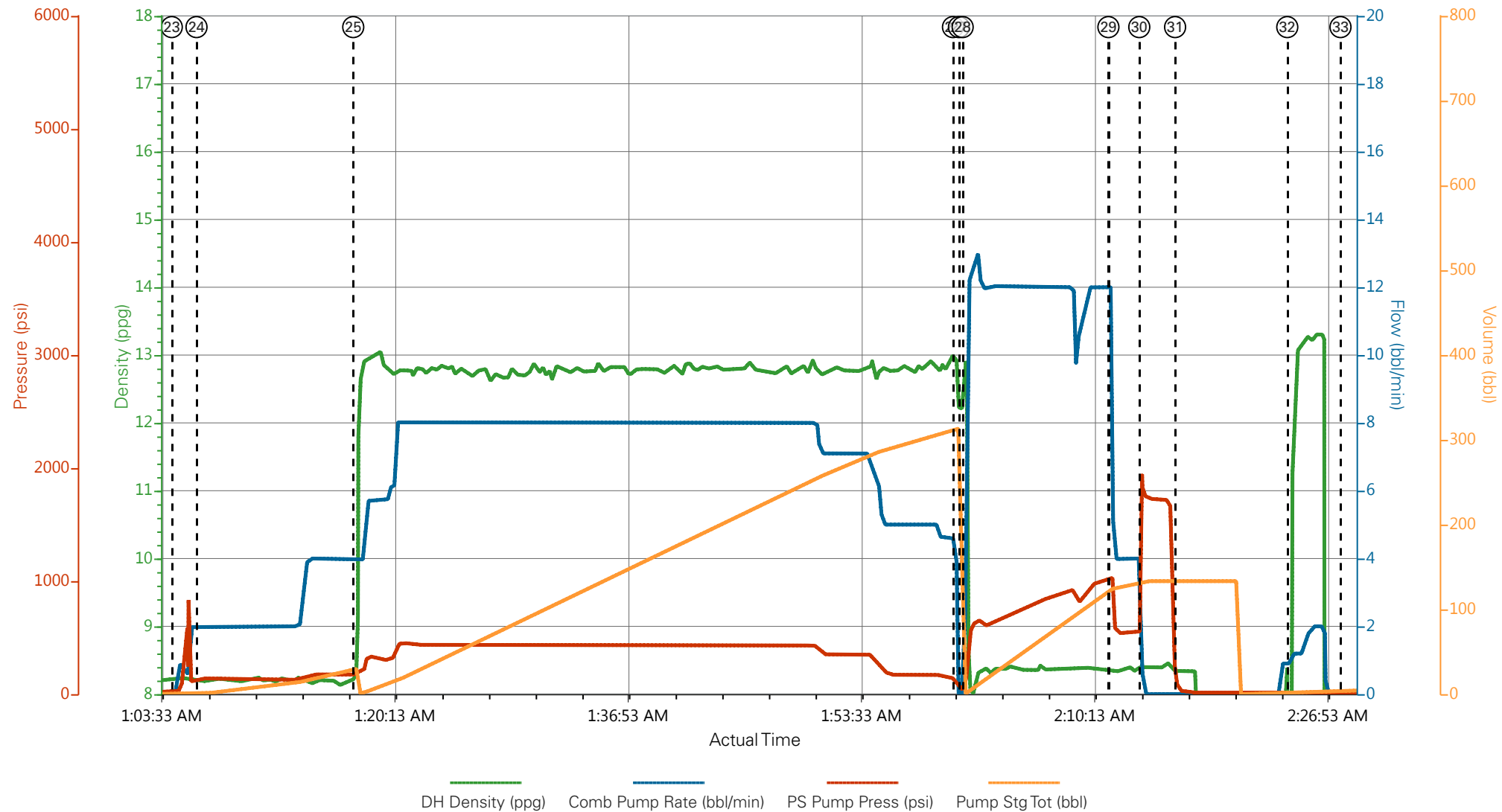
Sales Order #: 0902024175

ELITE # 9: DUSTIN SMITH / ADAM ANDERSON

# WPX - FEDERAL RGU 44-23-198 - 1ST STAGE



WPX - FEDERAL RGU 44-23-198 - 2ND STAGE



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

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Created: 2015-01-12 09:47:04, Version: 4.1.85

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Customer : WPX ENERGY ROCKY MOUNTAIN LLC-  
EBUS

Job Date : 1/12/2015 8:13:28 PM

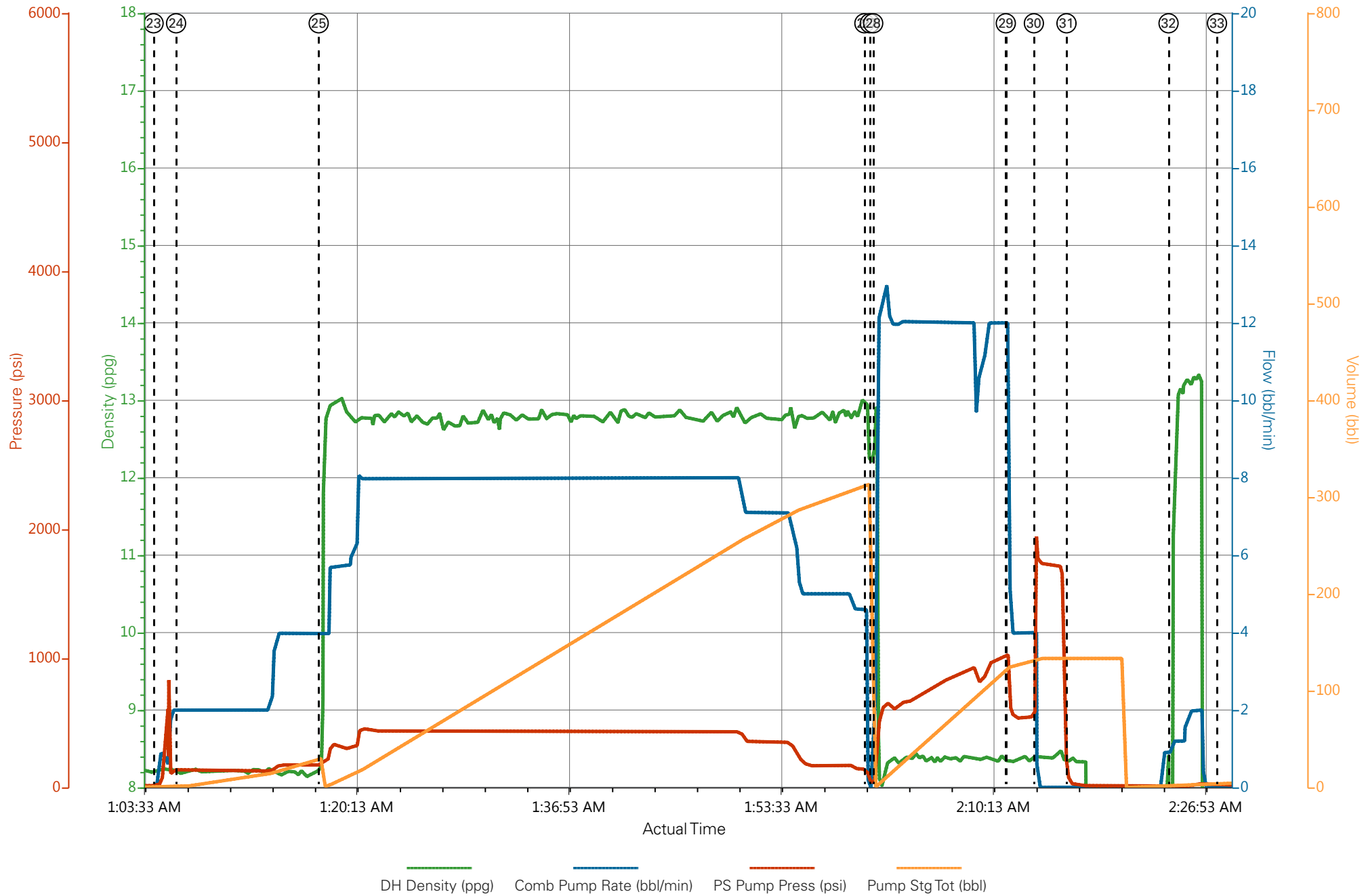
Well : FEDERAL RGU 44-23-198 - 2 STAGE  
SURFACE

Representative : BRANDON HAIRE

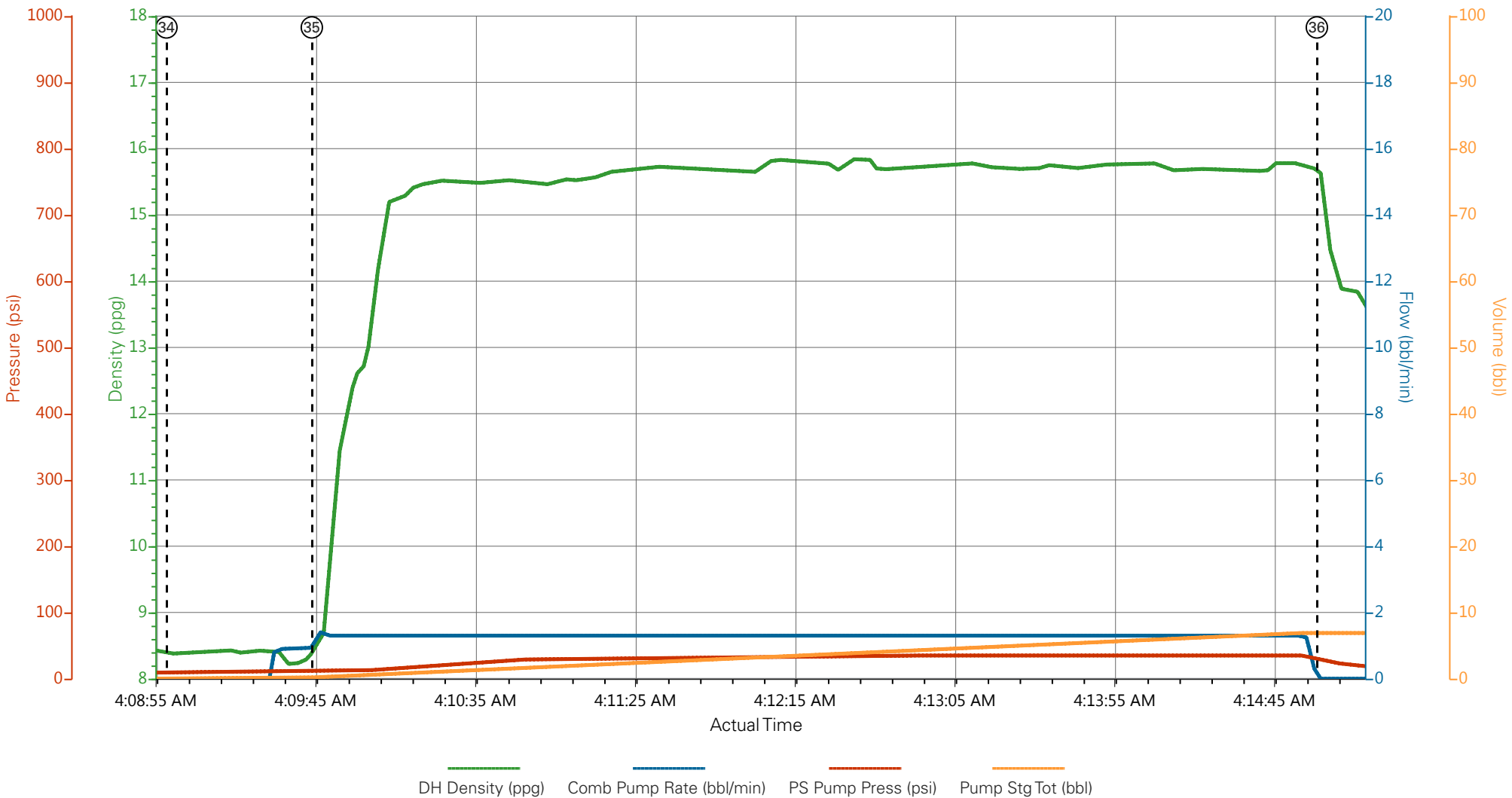
Sales Order # : 0902024175

ELITE # 9 : DUSTIN SMITH / ADAM ANDERSON

# WPX - FEDERAL RGU 44-23-198 - 2ND STAGE



WPX - FEDERAL RGU 44-23-198 - TOP OUT #1



- |   |                           |                     |                                 |                 |                                |
|---|---------------------------|---------------------|---------------------------------|-----------------|--------------------------------|
| ① Call Out                              | ⑧ Start Job               | ⑮ Drop Top Plug     | 22 Drop Opening Device          | 29 Slow Rate    | 36 Shutdown                    |
| ② Pre-Convoy Safety Meeting             | ⑨ Prime Lines             | ⑯ Pump Displacement | 23 Open Multiple Stage Cementer | 30 Bump Plug    | 37 Pre-Rig Down Safety Meeting |
| ③ Arrive At Loc                         | ⑩ Test Lines              | ⑰ Slow Rate         | 24 Pump Fresh Water Spacer      | 31 Check Floats | 38 Rig-Down Equipment          |
| ④ Assessment Of Location Safety Meeting | ⑪ Pump Fresh Water Spacer | ⑱ Increase Rate     | 25 Pump Lead Cement             | 32 Pump Cement  | 39 Pre-Convoy Safety Meeting   |
| ⑤ Pre-Rig Up Safety Meeting             | ⑫ Pump Lead Cement        | ⑲ Slow Rate         | 26 Shutdown                     | 33 End Job      | 40 Crew Leave Location         |
| ⑥ Rig-Up Equipment                      | ⑬ Pump Tail Cement        | 20 Bump Plug        | 27 Drop Plug                    | 34 Start Job    |                                |
| ⑦ Pre-Job Safety Meeting                | ⑭ Shutdown                | 21 Check Floats     | 28 Pump Displacement            | 35 Pump Cement  |                                |

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Created: 2015-01-12 09:47:04, Version: 4.1.85

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS  
Representative : BRANDON HAIRE

Job Date : 1/12/2015 8:13:28 PM  
Sales Order # : 0902024175

Well : FEDERAL RGU 44-23-198 - 2 STAGE SURFACE  
ELITE # 9 : DUSTIN SMITH / ADAM ANDERSON

# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: DUSTIN SMITH

Attention:

Lease FEDERAL RGU

Well # 44-23-198

Date: 1/13/2015

Date Rec.:

S.O.# 902024175

Job Type: 2 STAGE SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>200</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>UNDER 200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-90</i>	<b>40</b> Deg
Total Dissolved Solids		<b>975</b> 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

<b>Sales Order #:</b> 0902024175	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/13/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT MULTIPLE STAGES BOM
<b>Customer Representative:</b> JOSH GARIBAY		<b>API / UWI: (leave blank if unknown)</b> 05-103-12136-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080641212
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> 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	1/13/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	JOSH GARIBAY
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	

<b>CUSTOMER SIGNATURE</b>
---------------------------



<b>Sales Order #:</b> 0902024175	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/13/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT MULTIPLE STAGES BOM
<b>Customer Representative:</b> JOSH GARIBAY		<b>API / UWI: (leave blank if unknown)</b> 05-103-12136-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080641212
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> RIO BLANCO

*KEY PERFORMANCE INDICATORS*

General	
<b>Survey Conducted Date</b> The date the survey was conducted	1/13/2015

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.	6
<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.	4
<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	7
<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

<b>Sales Order #:</b> 0902024175	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/13/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT MULTIPLE STAGES BOM
<b>Customer Representative:</b> JOSH GARIBAY		<b>API / UWI: (leave blank if unknown)</b> 05-103-12136-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080641212
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> 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.	
<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)	No
<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	90
<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	90
<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