HALLIBURTON

Cementing

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 534-23-198

Aztec 1000

Post Job Summary
Cement Surface Casing

Date Prepared: 10/8/2014
Job Date: 10/1/2014

Submitted by: Tony Eschete - Cement Engineer

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 3560584	**Quote #:**	**Sales Order #:** 0901706546
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** BRANDON HAIRE	
Well Name: FEDERAL	**Well #:** RGU 534-23-198		**API/UWI #:** 05-103-12141-00
Field: SULPHUR CREEK	**City (SAP):** MEEKER	**County/Parish:** RIO BLANCO	**State:** COLORADO
Legal Description: SE SE-23-1S-98W-1023FSL-651FEL			
Contractor: AZTEC DRLG		**Rig/Platform Name/Num:** AZTEC 1000	
Job BOM: 392189			
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	3943ft		**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
Open Hole Section			14.75				0	1700	0	0
Casing		9.625	8.921	36			0	3943		0
Open Hole Section			13.5				1700	3948	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		3943		**Top Plug**	9.625		
Float Shoe	9.625					**Bottom Plug**	9.625		
Float Collar	9.625	1		3903		**SSR plug set**	9.625		
Insert Float	9.625					**Plug Container**	9.625	1	HES
Stage Tool	9.625	1		1744		**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	50	bbl	8.33			10	

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	670	sack	12.8	1.77		8	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	VersaCem GJ2	VERSACEM (TM) SYSTEM	235	sack	12.8	2.11		8	11.77
11.74 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	301.7	bbl	8.3			12.5	

Cement Left In Pipe	Amount	50 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			5	

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 GJ2	VERSACEM (TM) SYSTEM	875	sack	12.8	2.18		8	12.11
12.07 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	134.8	bbl	8.3			12	

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	Halcem	HALCEM (TM) SYSTEM	47	sack	15.6	1.21		1	5.4
5.39 Gal		FRESH WATER							

Cement Left In Pipe	Amount	50 ft	Reason	Shoe Joint

Comment

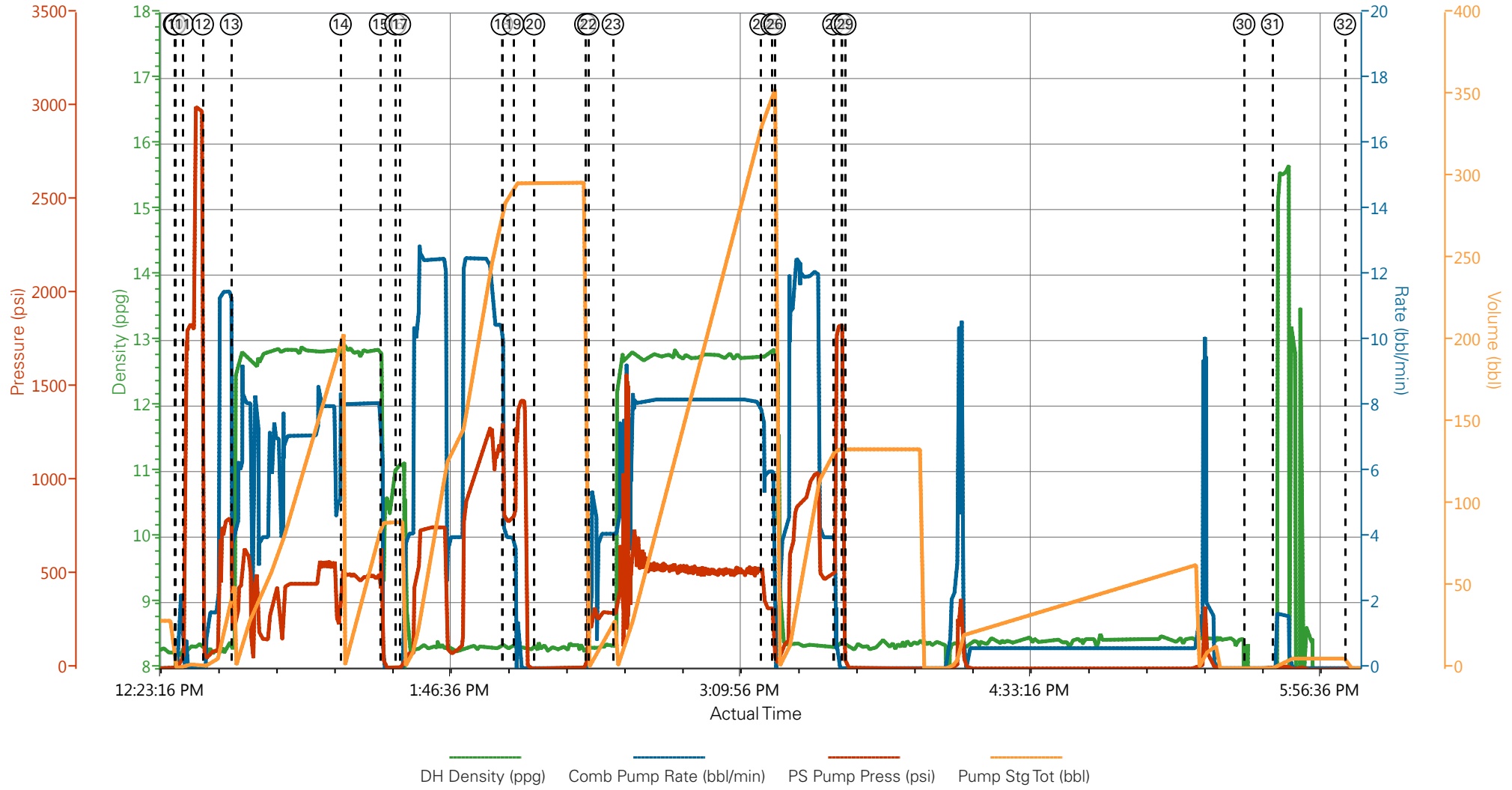
1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	9/30/2014	23:00:00	USER					CREW WAS ON ANOTHER LOCATION WEHN CALLED OUT, ON LOCATION TIME @ 0700
Event	2	Pre-Convoy Safety Meeting	10/1/2014	04:00:00	USER					ALL HES PRESENT FOR MEETING
Event	3	Crew Leave Yard	10/1/2014	04:15:00	USER					ALL VEHICLES IN CONVOY LEFT YARD AT THE SAME TIME
Event	4	Arrive At Loc	10/1/2014	07:15:00	USER					RIG WAS STILL RUNNING CASING WHEN THE CREW ARRIVED ON LOCATION
Event	5	Assessment Of Location Safety Meeting	10/1/2014	09:30:00	USER					TD - 3948', TP - 3943', SJ - 40', MUD - 9.7 PPG, OPEN HOLE - 14 3/4" FROM SURFACE TO 1700', OPEN HOLE - 13 1/2" FROM 1700' TO TD, SURFACE CASING - 9 5/8" 36# J-55, MSC - 1744'
Event	6	Pre-Rig Up Safety Meeting	10/1/2014	10:00:00	USER					JSA PERFORMED
Event	7	Rig-Up Equipment	10/1/2014	10:30:00	USER					1 - 550 PICK UP TRUCK, 1 - ELITE PUMP, 2 - 660 CUFT BULK TRAILERS, 2 - 1700 CUFT STORAGE SILOS, 2" CIRCULATING IRON, 9 5/8" PLUG CONTAINER AND QUICK LATCH, PLUG SET PROVIDED BY WEATHERFORD
Event	8	Pre-Job Safety Meeting	10/1/2014	12:15:00	USER					ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 1200
Event	9	Start Job	10/1/2014	12:28:18	COM6					RIG UP HES FROM STAND PIPE TO PLUG CONTAINER
Event	10	Prime Pumps	10/1/2014	12:28:39	COM6	8.33	2	98	2	FILL LINES WITH FRESH WATER
Event	11	Test Lines	10/1/2014	12:30:48	COM6		.1	3015	.1	GOOD PRESSURE TEST NIO LEAKS IN THE LINES
Event	12	Pump Spacer 1	10/1/2014	12:36:32	COM6	8.33	11.5	800	50	FRESH WATER
Event	13	Pump Lead Cement	10/1/2014	12:44:40	COM6	12.8	8	560	211.2	670 SKS 12.8 PPG 1.77 FT3/SK 9.31 GAL/SK, 60# OF TUFF FIBER IN THE FIRST 100 BBL OF LEAD, RIG'S DREDGE PUMP KEPT LOOSING PRIME SO THEY COULD NOT KEEP UP WITH THE AMOUNT OF RETURNS COMING TO SURFACE SO THE CUSTOMER REP WAS DICTATING RATE UNTIL THEY WERE ABLE TO GET A SECOND PUMP GOING TO KEEP UP
Event	14	Pump Tail Cement	10/1/2014	13:16:08	COM6	12.8	8	500	88.3	235 SKS 12.8 PPG 2.11 FT3/SK 11.77 GAL/SK

Event	15	Shutdown	10/1/2014	13:27:30	USER				REMOVED TOP CAP TO PLUG CONTAINER TO DROP 1ST STAGE SHUT OFF PLUG
Event	16	Drop Top Plug	10/1/2014	13:31:55	USER				PLUG WAS PUSHED PAST TATTLE TELL BEFORE REPLACING THE CAP
Event	17	Pump Displacement	10/1/2014	13:33:11	COM6	8.33	12.5	1290	281.7	FRESH WATER, FIRST 10 BBL WAS USED TO WASH UP MIXING TUB, AS PER CO REP REQUEST PUMPED DISPLACEMENT AS FAST AS WE COULD GET WATER, SLOWED RATE TO 4 BPM @ 125 BBL AWAY TO ALLOW PLUG TO GO THROUGH THE TOOL, BROUGHT RATE BACK UP @ 145 BBL AWAY
Event	18	Slow Rate	10/1/2014	14:02:30	USER	8.33	4	780	20	GOOD RETURNS THROUGH OUT THE FIRST STAGE
Event	19	Bump Plug	10/1/2014	14:05:45	COM6	8.33	4	820	301.7	PLUG BUMPED
Event	20	Drop Opening Device For Multiple Stage Cementer	10/1/2014	14:11:44	USER					REMOVED CAP TO PLUG CONTAINER TO DROP OPENING DEVICE, THEN PRE-LOADED CLOSING PLUG BEFORE REPLACING THE CAP
Event	21	Open Multiple Stage Cementer	10/1/2014	14:26:29	COM6	8.33	2	600	.5	OPENED MSC @ 600 PSI, TOOK 8 BBL BEFORE WE REGAINED RETURNS
Event	22	Circulate Well	10/1/2014	14:27:22	USER	8.33	5	290	30	MIXED UP FIRST TUB OF CEMENT
Event	23	Pump Tail Cement	10/1/2014	14:34:24	COM6	12.8	8	740	339.7	875 SKS 12.8 PPG 2.18 FT3/SK 12.11 GAL/SK, 45# OF TUFF FIBER IN THE LAST 100 BBL OF CEMENT, CEMENT RETURNS FROM FIRST STAGE @ 70 BBL OF CEMENT AWAY, CIRCULATED 80 BBL OF FIRST STAGE CEMENT TO SURFACE
Event	24	Drop Plug	10/1/2014	15:20:00	USER					CLOSING PLUG DROP VERIFIED VIA TATTLE TELL BY CO REP
Event	25	Pump Displacement	10/1/2014	15:20:54	COM6	8.33	12	1040	114.8	FRESH WATER, FIRST 10 BBL OF DISPLACEMENT USED TO WASH UP MIXING TUB
Event	26	Slow Rate	10/1/2014	15:16:51	USER	8.33	4	475	20	GOOD RETURNS THROUGH OUT THE SECOND STAGE, CIRCULATED APPROX 140 BBL OF CEMENT TO SURFACE, TURNED OFF DREDGE PUMP WITH 10 BBL LEFT OF DISPLACEMENT TO ALLOW CEMENT TO FILL CELLAR RING AND FALL INTO CONDUCTOR AS CEMENT FALLS, CO REP ADDED 150# CACL2 TO THE CEMENT IN THE CELLAR RING TO HELP GELLING AND TRY TO STOP CEMENT FROM FALLING
Event	27	Close Multiple Stage Cementer	10/1/2014	15:40:09	USER		4	1836	134.8	MSC CLOSED, 1 BBL OF FLUID BACK TO THE DISPLACEMENT TANKS
Event	28	Wait on Cement	10/1/2014	15:41:11	USER					AS PER CO REP REQUEST WAIT 2 HOURS TO SEE IF

										CEMENT FALLS FAR ENOUGH THAT WE NEED TO TOP OUT
Event	29	Comment	10/1/2014	17:35:50	USER					TAGGED CEMENT 20' DOWN FROM SURFACE, CO REP SAID TO FILL TO SURFACE, MIXED UP 10 BBL OF CEMENT
Event	30	Pump Cement	10/1/2014	17:43:53	COM6	15.6	1	40	10	47 SKS 15.6 PPG 1.21 FT3/SK 5.4 GAL/SK, PUMPED 3.5 BBL OF CEMENT BEFORE GETTING CEMENT TO SURFACE, PUMPED A TOTAL OF 7 BBL BETWEEN ANNULUS AND CELLAR RING, CO REP ADDED 200# CACL2 TO THE TOP OUT CEMENT
Event	31	End Job	10/1/2014	18:04:46	COM6					THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

WPX - FEDERAL RGU 534-23-198 - 9.625 IN SURFACE MULTI STAGE



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

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Created: 2014-10-01 11:56:03, Version: 3.0.121 Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 10/1/2014 11:57:16 AM

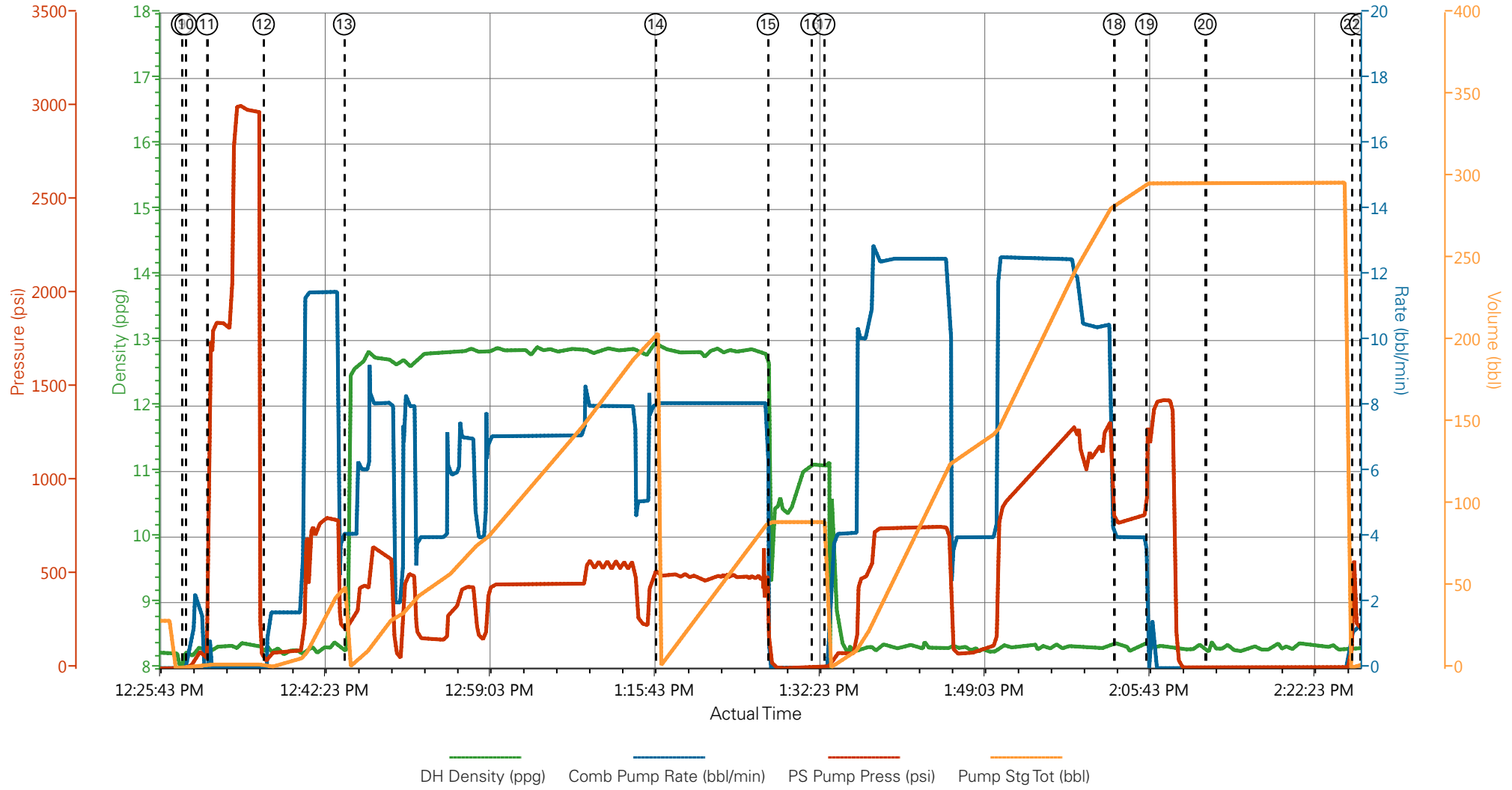
Well : FEDERAL RGU 534-23-198

Representative : BRANDON HAIRE

Sales Order # : 901706546

ELITE #2 : TRAVIS BROWN / ANDREW LINN THOMAS PONDER

WPX - FEDERAL RGU 534-23-198 - 9.625 IN SURFACE STAGE 1



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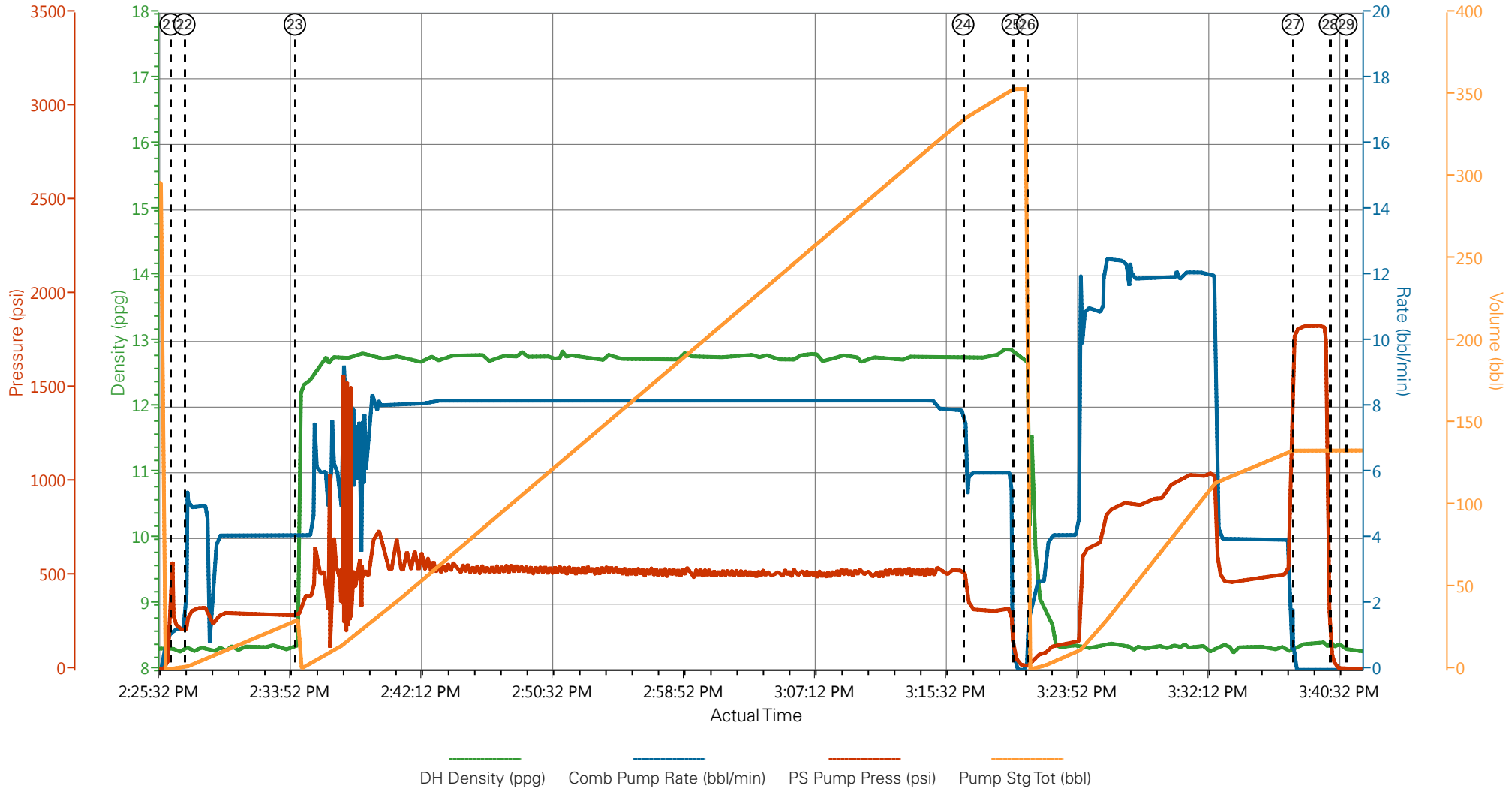
WPX - FEDERAL RGU 534-23-198 - 9.625 IN SURFACE STAGE 2



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Representative : BRANDON HAIRE

Sales Order # : 901706546

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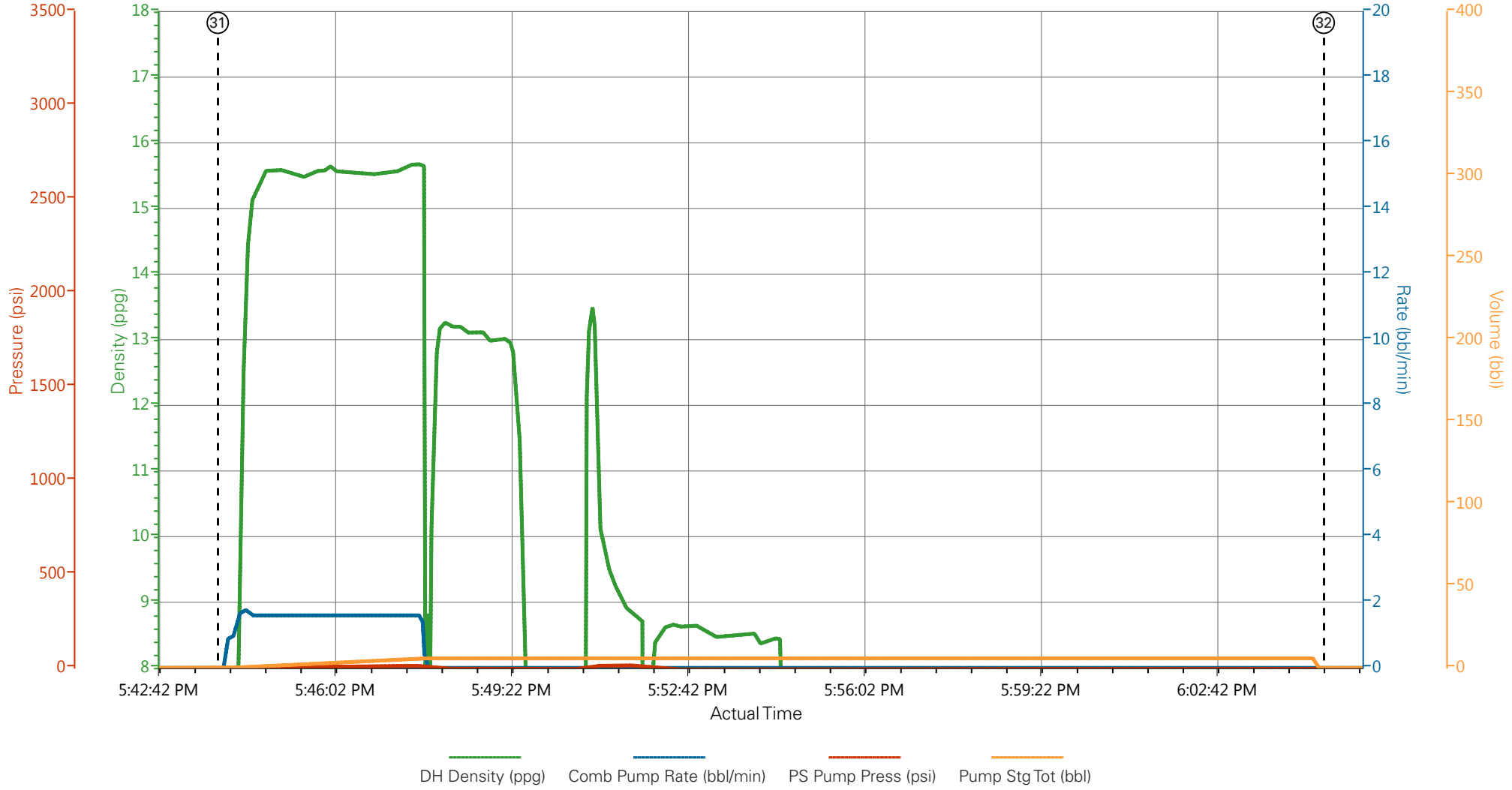
WPX - FEDERAL RGU 534-23-198 - 9.625 IN SURFACE TOP OUT



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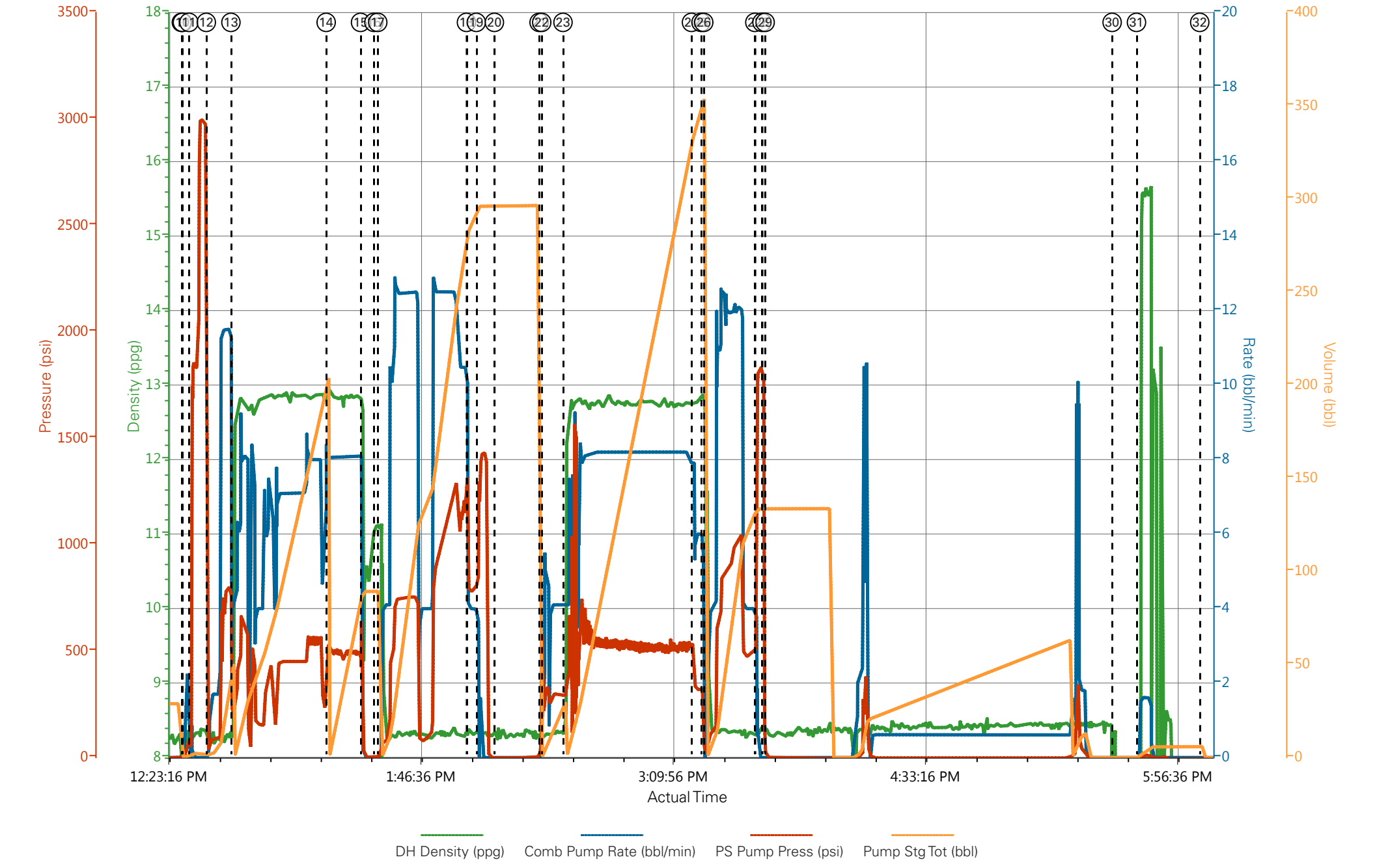

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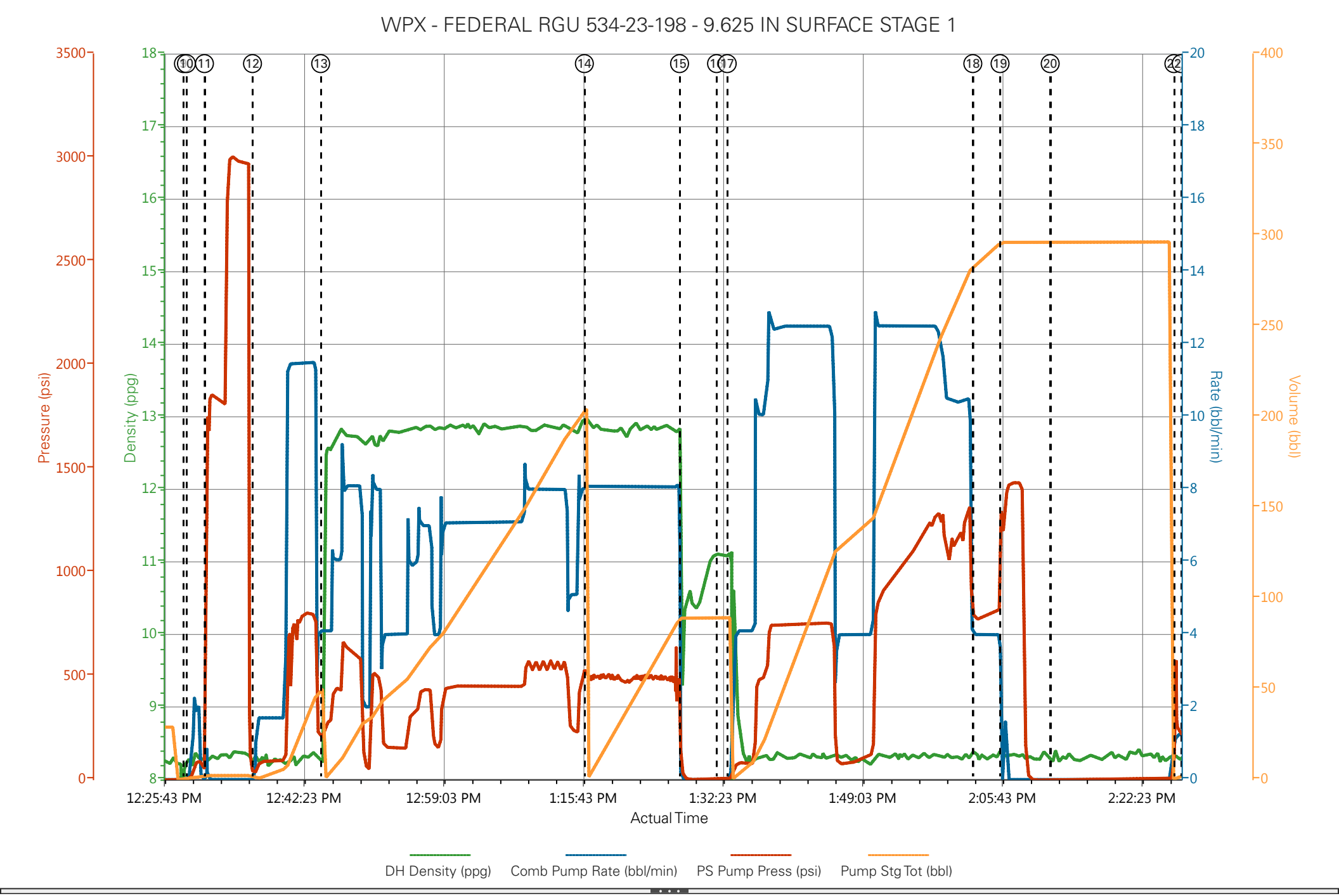

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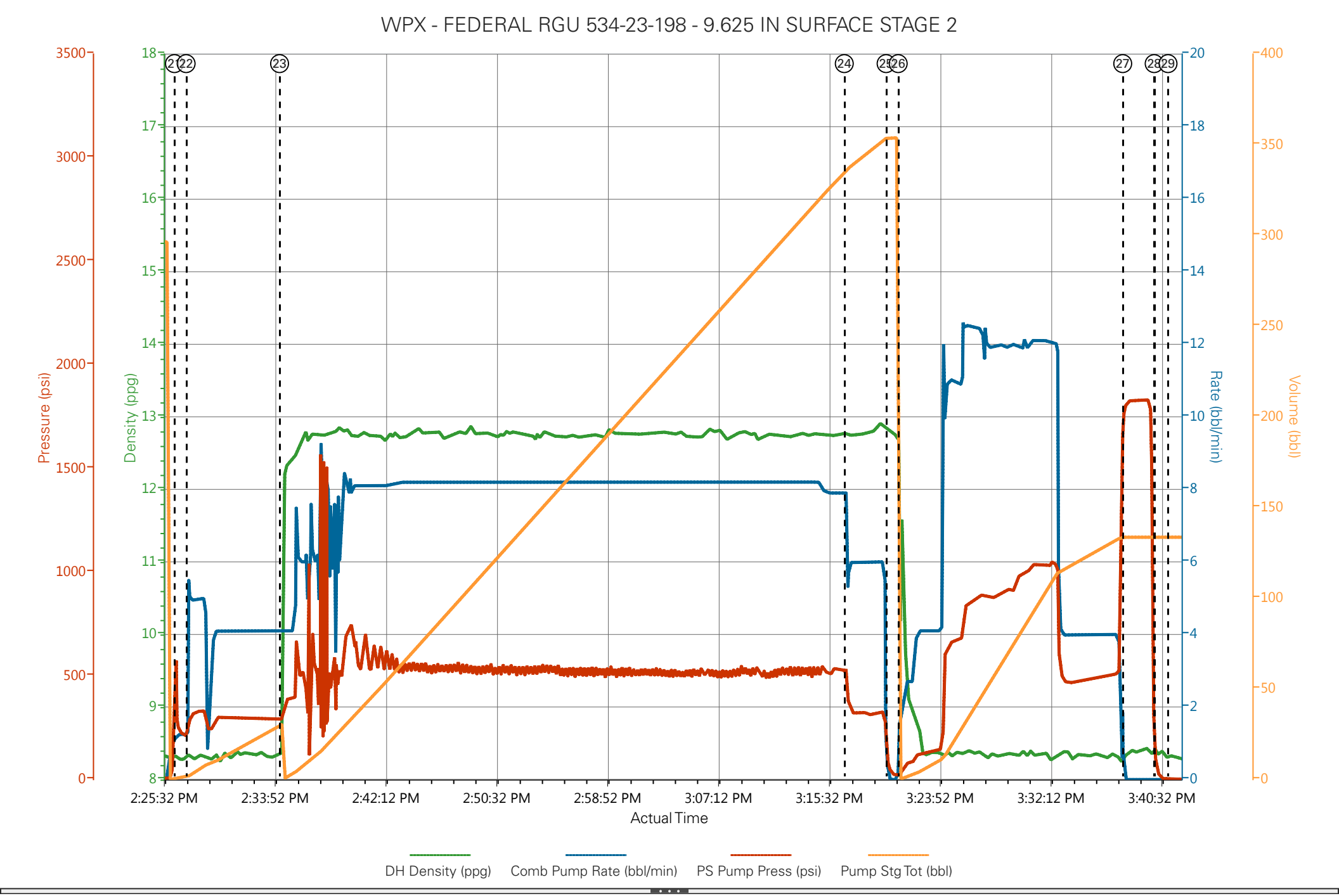

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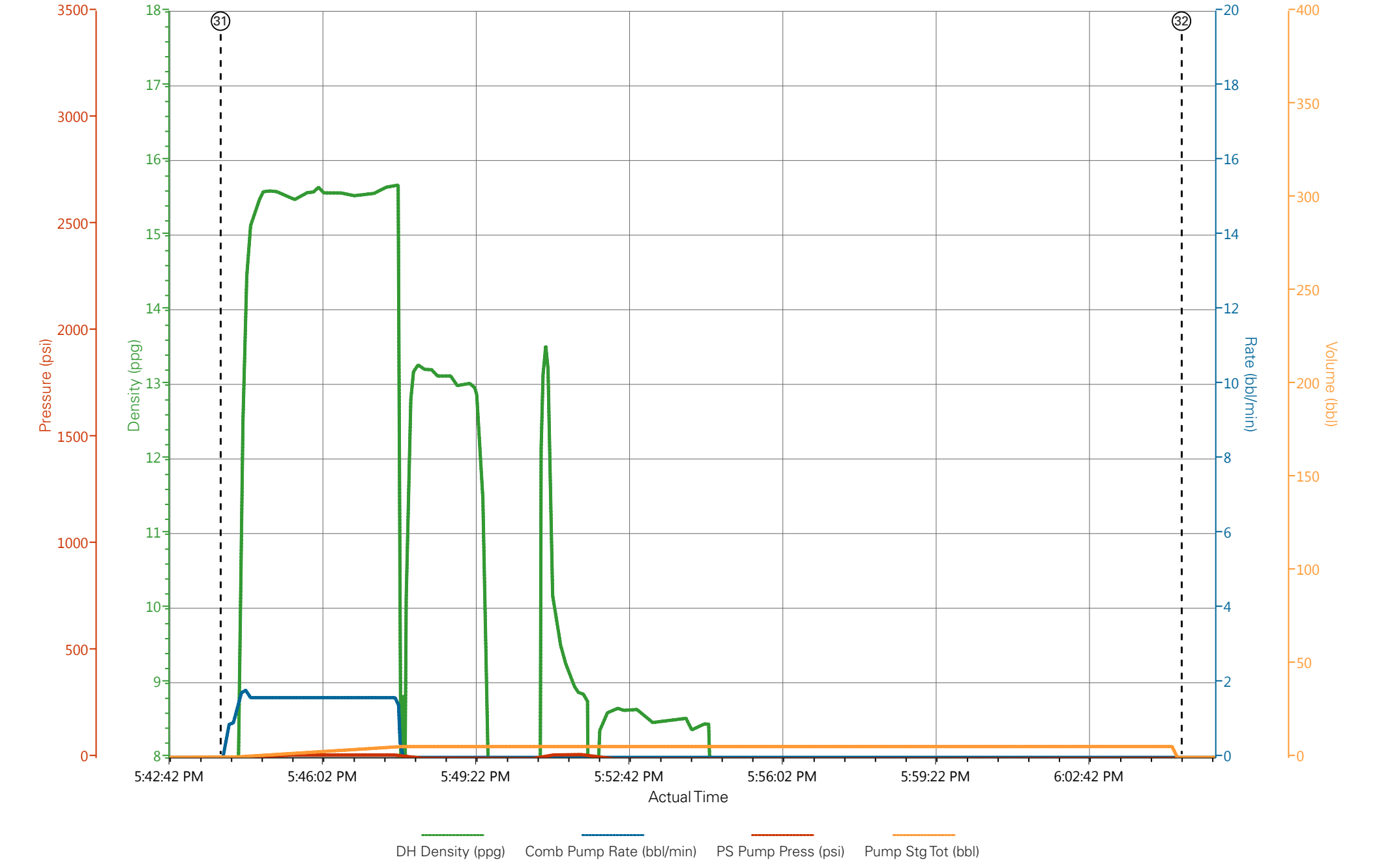

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ELITE #2 : TRAVIS BROWN / ANDREW LINN THOMAS PONDER

HALLIBURTON

Company:	**WPX**	**Date:**	**10/1/2014**
Submitted by:	**THOMAS PONDER**	**Date Rec.:**	**10/1/2014**
Attention:	**LARRY COOKSEY**	**S.O.#**	**901706546**
Lease	**FEDERAL**	**Job Type:**	**INTERMEDIATE**
Well #	**RGU 534-23-198**		

Specific Gravity	***MAX***	**1**	
pH	***8***	**7**	
Potassium (K)	***5000***	**0**	**Mg / L**
Calcium (Ca)	***500***	**125**	**Mg / L**
Iron (FE2)	***300***	**0**	**Mg / L**
Chlorides (Cl)	***3000***	**0**	**Mg / L**
Sulfates (SO_4)	***1500***	**<200**	**Mg / L**
Carbonates hardness			
Temp	***40-80***	**42**	**Deg**
Total Dissolved Solids		**260**	**Mg / L**

Respectfully: **THOMAS PONDER**

Title: **CEMENTING SUPERVISOR**

Location: **GRAND JCT, CO**

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
0901706546	10	10/1/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT MULTIPLE STAGES BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
BRANDON HAIRE		05-103-12141-00
Well Name:		**Well Number:**
FEDERAL		0080641143
Well Type:	**Well Country:**	
DIRECTIONAL GAS	USA	
H2S Present:	**Well State:**	**Well County:**
No	COLORADO	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**	**10/1/2014**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**HX41187**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**BRANDON HAIRE**
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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
0901706546	10	10/1/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT MULTIPLE STAGES BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
BRANDON HAIRE		05-103-12141-00
Well Name:		**Well Number:**
FEDERAL		0080641143
Well Type:	**Well Country:**	
DIRECTIONAL GAS	USA	
H2S Present:	**Well State:**	**Well County:**
No	COLORADO	RIO BLANCO

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	10/1/2014

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.	Deviated
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	8
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.	6
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	12
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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
0901706546	10	10/1/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT MULTIPLE STAGES BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
BRANDON HAIRE		05-103-12141-00
Well Name:		**Well Number:**
FEDERAL		0080641143
Well Type:	**Well Country:**	
DIRECTIONAL GAS	USA	
H2S Present:	**Well State:**	**Well County:**
No	COLORADO	RIO BLANCO

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 cment 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	99
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