

WPX Energy Rocky Mountain LLC-EBUS

YOUBERG RU 34-7

Nabors 576

Post Job Summary

Cement PTA Casing

Date Prepared: 6/02/2015
Job Date: 5/29/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3600067	Quote #:	Sales Order #: 0902454374
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: AL HARTL	
Well Name: YOUNBERG RU	Well #: 34-7	API/UWI #: 05-045-22524-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SE-7-7S-93W-1125FSL-1194FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 14097			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HAM2616		Srcv Supervisor: Jesse Slaughter	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	6381ft Job Depth TVD
Water Depth	Wk Ht Above Floor 3Fft
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	1352		
Drill Pipe		4.5	3.958	14.06			0	6378		
Open Hole Section			8.75				1352	6740		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5	1		6378	Top Plug	4.5		HES
Float Shoe	4.5	1			Bottom Plug	4.5		HES
Float Collar	4.5	1			SSR plug set	4.5		HES
Insert Float	4.5	1			Plug Container	4.5		HES
Stage Tool	4.5	1			Centralizers	4.5		HES

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	Plugcem	PLUGCEM (TM) SYSTEM	209	sack	15.8	1.15		4	4.97
4.97 Gal		FRESH WATER							

Cement Left In Pipe	Amount ft	Reason	Shoe Joint
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Fluid Data

Stage/Plug #: 2										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
1	Plugcem	PLUGCEM (TM) SYSTEM	125	sack	15.8	1.15		4	4.99	
4.99 Gal		FRESH WATER								
Cement Left In Pipe										
Amount ft			Reason				Shoe Joint			
Fluid Data										
Stage/Plug #: 3										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
1	Plugcem	PLUGCEM (TM) SYSTEM	200	sack	15.8	1.15		4	5	
5 Gal		FRESH WATER								
Cement Left In Pipe										
Amount ft			Reason				Shoe Joint			
Fluid Data										
Stage/Plug #: 4										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
1	Plugcem	PLUGCEM (TM) SYSTEM	20	sack	15.8	1.15		4	5	
5 Gal		FRESH WATER								
Cement Left In Pipe										
Amount ft			Reason				Shoe Joint			
Comment										

Summary Report

Sales Order #: 0902454374
WO #: 0902454374
PO/AFE #: NA



Crew: _____

Job Start Date: 5/30/2015

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
UWI / API Number: 05-045-22524-00
Well Name: YOUNBERG RU
Well No: 34-7

Field: RULISON
County/Parish: GARFIELD
State: COLORADO
Latitude: 39.454759
Longitude: -107.810844
Sect / Twn / Rng: 7/7/93

Job Type: CMT PLUG LOST CIRCULATION BOM
Service Supervisor: Jesse Slaughter

Cust Rep Name: AL HARTL
Cust Rep Phone #:

Remarks:		
<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature	Date
	Customer Representative Printed Name	

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	Driv-Side Pump Pressure <i>(psi)</i>	Comments
Event	1	Call Out	Call Out	5/29/2015	05:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/29/2015	09:50:00	USER					WITH ALL HES PERSONNEL
Event	3	Crew Leave Yard	Crew Leave Yard	5/29/2015	10:00:00	USER					
Event	4	Arrive At Loc	Arrive At Loc	5/29/2015	12:00:00	USER					RIG WAS RUNNING DRILLPIPE UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	5/29/2015	12:05:00	USER					WITH ALL HES PERSONNEL
Event	6	Other	Spot Equipment	5/29/2015	12:15:00	USER					1 PUMP, 2 BULK TRUCKS
Event	7	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/29/2015	12:30:00	USER					WITH ALL HES PERSONNEL
Event	8	Rig-Up Equipment	Rig Up The Equipment	5/29/2015	12:35:00	USER					
Event	9	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/29/2015	14:30:00	USER					WITH ALL PERSONNEL
Event	10	Start Job	Start Job	5/29/2015	14:48:00	USER					TD 6832 FT, TP 6378 FT, DRILLPIPE 4 1/2 IN 16.6 LB/FT, HOLE 8 3/4 IN, MUD WT 10.5 PPG, SFC CSG SET AT 1352 FT 9 5/8 IN 32.3 LB/FT.
Event	11	Prime Pumps	Prime Pumps	5/29/2015	14:50:03	COM7	8.24	2.0	2.0	144.0	FRESH WATER
Event	12	Test Lines	Test Lines	5/29/2015	14:52:29	COM7					TESTED LINES TO 4655 PSI PRESSURE HOLDING
Event	13	Check Weight	Check weight	5/29/2015	15:02:42	COM7					SCALES SHOWING 15.8 PPG
Event	14	Pump Spacer 1	Pump H2O Spacer Ahead	5/29/2015	15:04:56	COM7	8.34	4.0	8.0	412.0	FRESH WATER

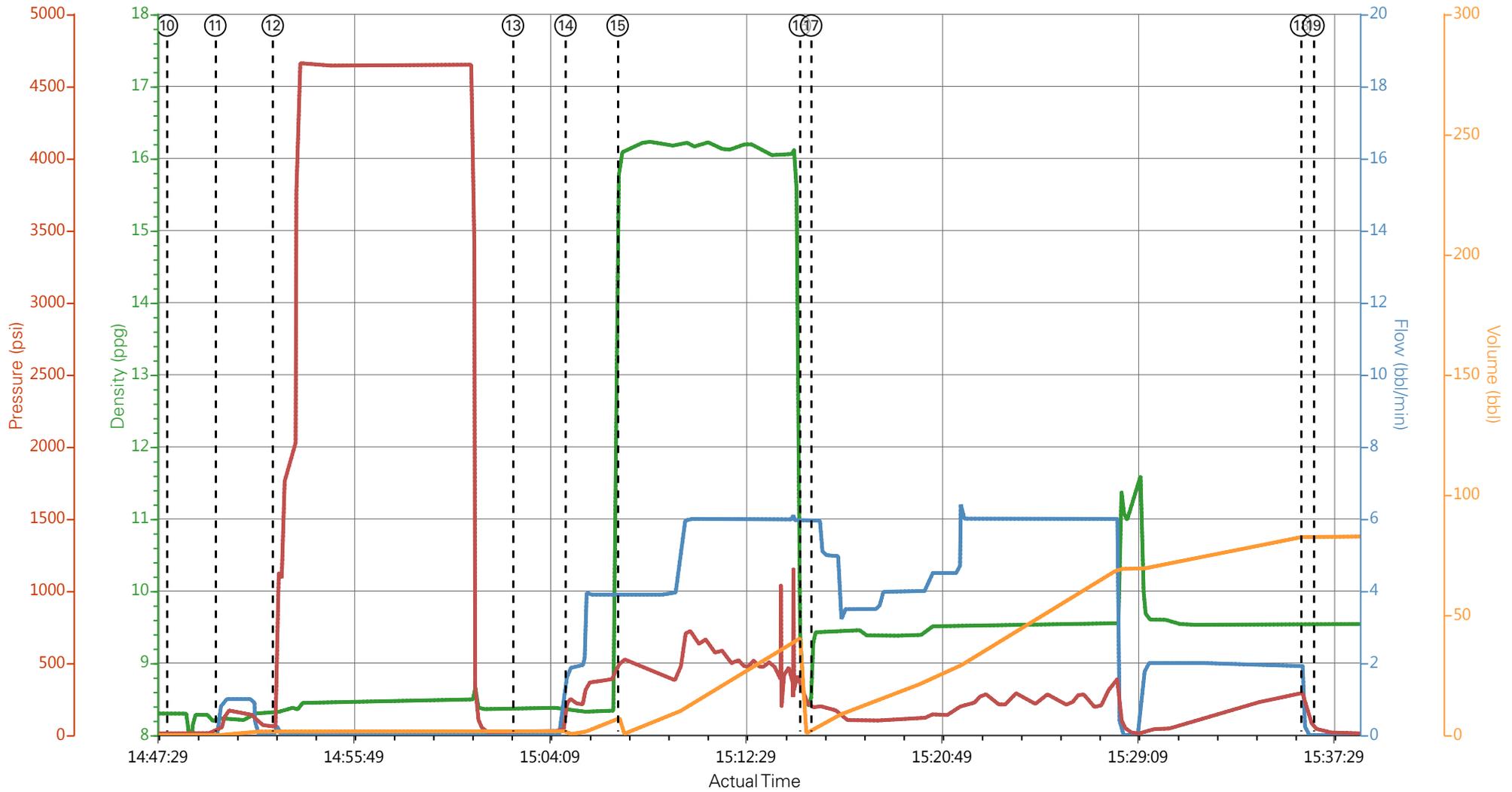
Event	15	Pump Cement	Pump Cement	5/29/2015	15:07:09	COM7	15.8	6.0	42.8	200.0	209 SKS AT 15.8 PPG, 1.15 FT3/SK, 4.97 GAL/SK
Event	16	Pump Spacer 2	Pump H2O Spacer Behind	5/29/2015	15:14:54	COM7	8.33	4.0	2.0	200.0	FRESH WATER
Event	17	Pump Displacement	Pump Displacement	5/29/2015	15:15:23	COM7	10.5	6.0	79.7	267.0	WATER BASED MUD
Event	18	Shutdown	Shutdown	5/29/2015	15:36:13	USER					
Event	19	End Job	End Job	5/29/2015	15:36:45	COM7					NO CIRCULATION THROUGHOUT JOB, AS PER COMPANY REP HES WAIT FOR 5 HOURS TO TAG CEMENT PLUG.
Event	20	Other	Rig Pull Pipe	5/29/2015	16:39:56	USER					RIG PULLED TOTAL OF 13 STANDS, 7 STANDS AT 30FT/50FT PER MIN. STANDS PULLED WET
Event	21	Start Job	Start Job	5/29/2015	21:22:00	COM7					PLUG #2. PRIOR TO STARTING 2ND PLUG RIG TAGGED 1ST PLUG AT 5778 FT. SET DRILLPIPE AT 3804 FT
Event	22	Pump Spacer 1	Pump H2O Spacer Ahead	5/29/2015	21:23:13	COM7	8.33	4.0	8.0	480.0	FRESH WATER
Event	23	Pump Cement	Pump Cement	5/29/2015	21:25:42	USER	15.8	4.5	25.6	380.0	125 SKS AT 15.8 PPG, 1.15 FT3/SK, 4.99 GAL/SK
Event	24	Pump Spacer 2	Pump H2O Spacer Behind	5/29/2015	21:31:12	USER	8.33	4.5	2.0	245.0	FRESH WATER
Event	25	Pump Displacement	Pump Displacement	5/29/2015	21:31:44	COM7	10.5	4.5	46.7	245.0	WATER BASED MUD
Event	26	Shutdown	Shutdown	5/29/2015	21:38:20	COM7					
Event	27	End Job	End Job	5/29/2015	21:39:00	COM7					RIG GOT FULL RETURNS AFTER 20 BBLS AWAY. AS PER COMPANY REP HES WAIT FOR 5 HOURS TO TAG CEMENT PLUG.
Event	28	Other	Rig Pull Pipe	5/29/2015	21:43:00	USER					RIG PULLED TOTAL OF 10 STANDS, 4 STANDS AT 30FT/50FT PER MIN.

Event	ID	Description	Activity	Date	Time	Status	Rate	Volume	Pressure	Flow	Notes
											STANDS PULLED DRY.
Event	29	Start Job	Start Job	5/30/2015	04:31:00	COM7					PLUG #3. PRIOR TO STARTING 3RD PLUG RIG TAGGED 2ND PLUG AT 3481 FT. SET PIPE AT 1617 FT.
Event	30	Pump Spacer 1	Pump H2O Spacer Ahead	5/30/2015	04:32:21	COM7	8.33	4.0	8.0	255.0	FRESH WATER
Event	31	Pump Tail Cement	Pump Cement	5/30/2015	04:35:36	COM7	15.8	4.0	41.0	300.0	200 SKS AT 15.8 PPG, 1.15 FT3/SK, 5.0 GAL/SK
Event	32	Pump Spacer 2	Pump H2O Spacer Behind	5/30/2015	04:47:06	USER	8.33	4.0	2.0	280.0	FRESH WATER
Event	33	Pump Displacement	Pump Displacement	5/30/2015	04:47:52	COM7	10.5	4.0	12.8	124.0	WATER BASED MUD
Event	34	Shutdown	Shutdown	5/30/2015	04:49:30	USER					
Event	35	End Job	End Job	5/30/2015	04:50:00	COM7					GOOD CIRCULATION THROUGHOUT JOB, AS PER COMPANY REP HES WAIT 5 HOURS TO TAG CEMENT PLUG.
Event	36	Other	Rig Pull Pipe	5/30/2015	05:06:00	USER					RIG PULLED TOTAL OF 12 STANDS, 6 STANDS AT 30FT/50FT PER MIN. STANDS PULLED DRY.
Event	37	Start Job	Start Job	5/30/2015	10:30:04	COM7					PLUG #4. PRIOR TO STARTING 3RD PLUG RIG TAGGED 3RD PLUG AT 1238FT. SET PIPE AT 95 FT.
Event	38	Pump Spacer 1	Pump H2O Spacer Ahead	5/30/2015	10:54:13	USER	8.33	2.5	2.0	120.0	FRESH WATER
Event	39	Pump Cement	Pump Cement	5/30/2015	11:04:52	USER	15.8	2.5	4.1	85.0	20 SKS AT 15.8 PPG, 1.15 FT3/SK, 5.0 GAL/SK
Event	40	Pump Displacement	Pump Displacement	5/30/2015	11:10:05	COM7					FRESH WATER
Event	41	Shutdown	Shutdown	5/30/2015	11:10:41	USER					
Event	42	End Job	End Job	5/30/2015	11:11:30	USER					GOOD CIRCULATION THROUGHOUT JOB, HES RETURNED TRACE AMOUNT

OF CEMENT TO SURFACE.
CHARGED 16 ADD HOURS
FOR JOB.

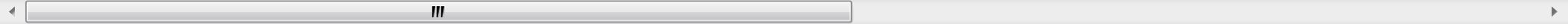
Event	43	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	5/30/2015	11:15:00	USER	WITH ALL HES PERSONNEL
Event	44	Rig-Down Equipment	Rig-Down Equipment	5/30/2015	11:20:00	USER	
Event	45	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/30/2015	12:50:00	USER	WITH ALL HES PERSONNEL
Event	46	Crew Leave Location	Crew Leave Location	5/30/2015	13:00:00	USER	
Event	47	Comment	Comment	5/30/2015	13:01:00	USER	THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.

WPX ENERGY - YOUBERG RU 34-7 - PTA



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

- | | | | | | | |
|-----------------------------|---|--------------------------|--------------------------|---------------------|---------------------------|-------------|
| ① Call Out | ⑤ Assessment Of Location Safety Meeting | ⑨ Pre-Job Safety Meeting | ⑬ Check weight | ⑰ Pump Displacement | 21 Start Job | 25 Pump D |
| ② Pre-Convoy Safety Meeting | ⑥ Spot Equipment | ⑩ Start Job | ⑭ Pump H2O Spacer Ahead | ⑱ Shutdown | 22 Pump H2O Spacer Ahead | 26 Shutdo |
| ③ Crew Leave Yard | ⑦ Pre-Rig Up Safety Meeting | ⑪ Prime Pumps | ⑮ Pump Cement | ⑲ End Job | 23 Pump Cement | 27 End Job |
| ④ Arrive At Loc | ⑧ Rig Up The Equipment | ⑫ Test Lines | ⑯ Pump H2O Spacer Behind | 20 Rig Pull Pipe | 24 Pump H2O Spacer Behind | 28 Rig Pull |



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Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 5/29/2015 2:05:36 PM

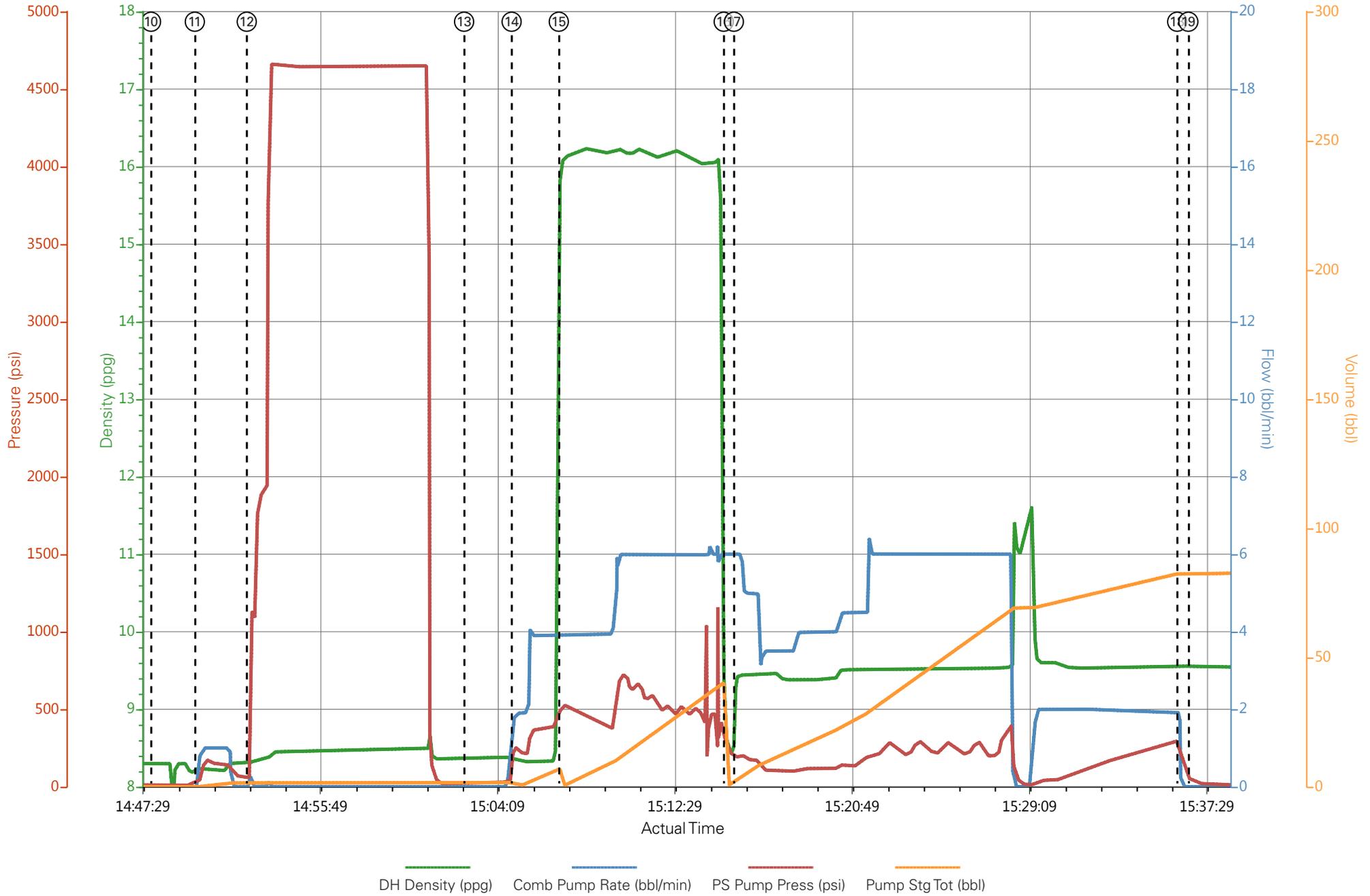
Well: YOUBERG RU 34-7

Representative: AL HARTL

Sales Order #: 902454374

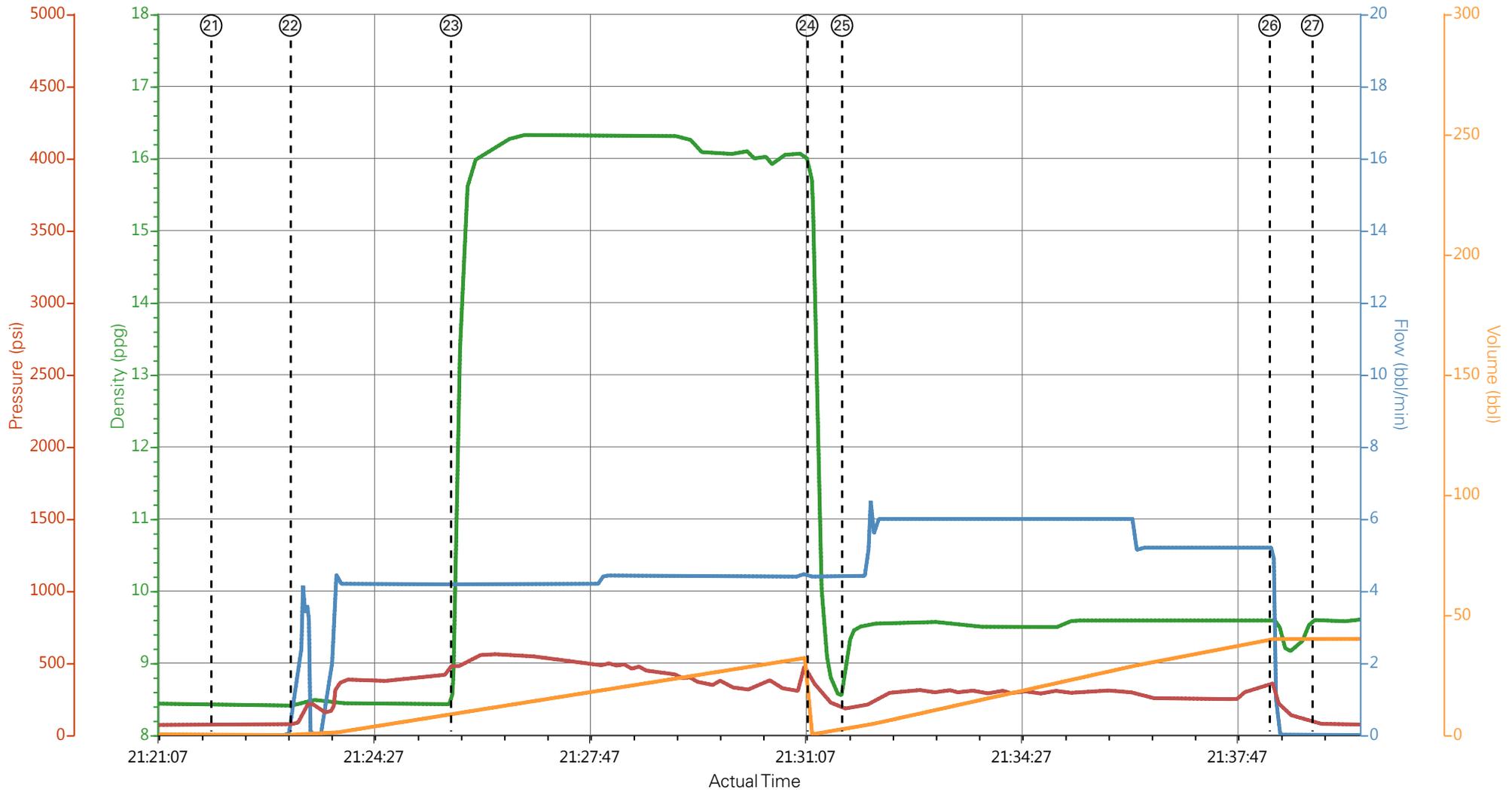
Elite #7: JESSE SLAUGHTER / WESLEY GOWEN

WPX ENERGY - YOUBERG RU 34-7 - PTA



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

WPX ENERGY - YOUBERG RU 34-7 - PTA



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

- | | | | | | | |
|-----------------------------|---|--------------------------|--------------------------|---------------------|---------------------------|-------------|
| ① Call Out | ⑤ Assessment Of Location Safety Meeting | ⑨ Pre-Job Safety Meeting | ⑬ Check weight | ⑰ Pump Displacement | 21 Start Job | 25 Pump D |
| ② Pre-Convoy Safety Meeting | ⑥ Spot Equipment | ⑩ Start Job | ⑭ Pump H2O Spacer Ahead | ⑱ Shutdown | 22 Pump H2O Spacer Ahead | 26 Shutdo |
| ③ Crew Leave Yard | ⑦ Pre-Rig Up Safety Meeting | ⑪ Prime Pumps | ⑮ Pump Cement | ⑲ End Job | 23 Pump Cement | 27 End Job |
| ④ Arrive At Loc | ⑧ Rig Up The Equipment | ⑫ Test Lines | ⑯ Pump H2O Spacer Behind | 20 Rig Pull Pipe | 24 Pump H2O Spacer Behind | 28 Rig Pull |

HALLIBURTON | iCem® Service

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Edit

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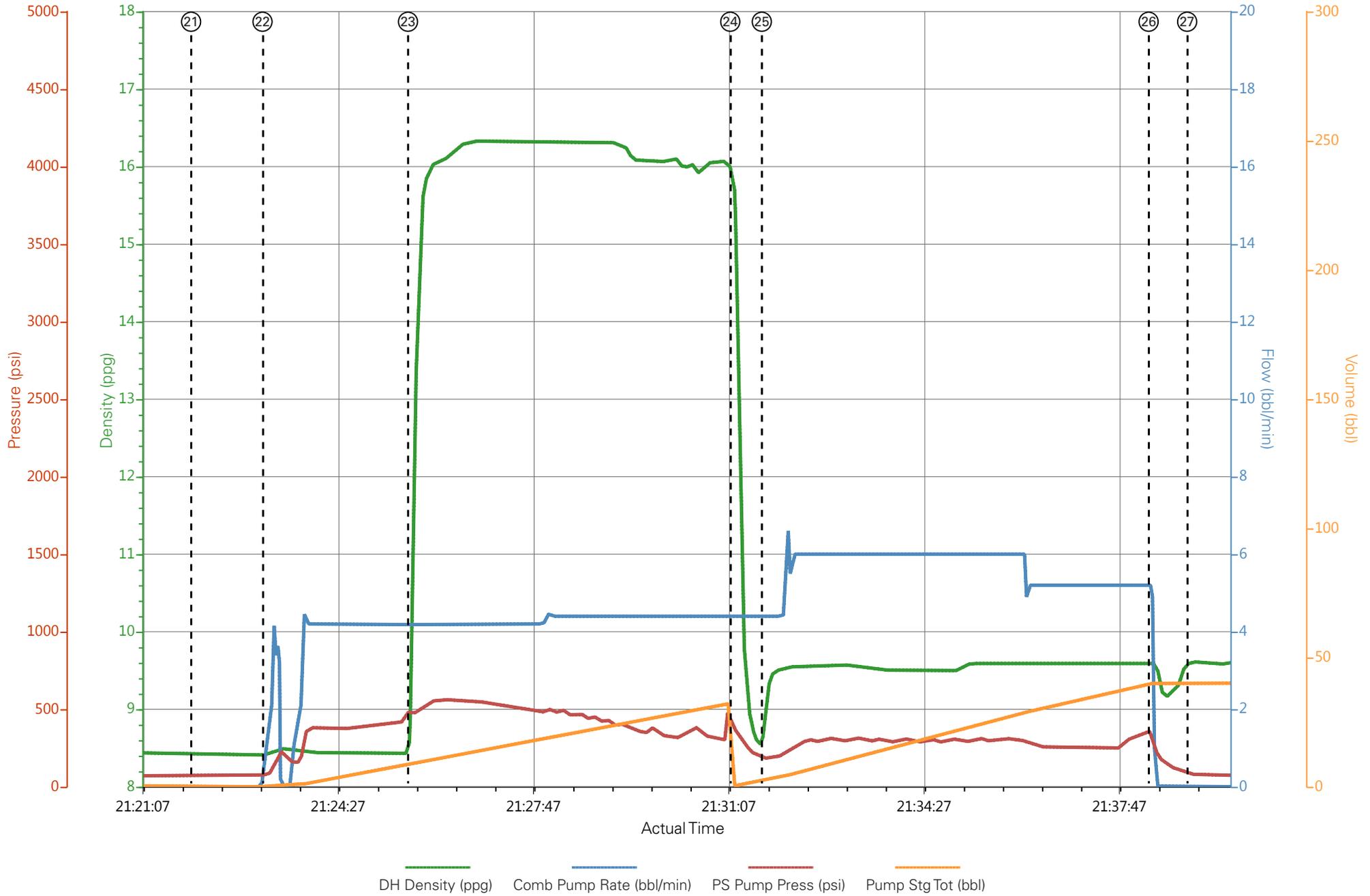
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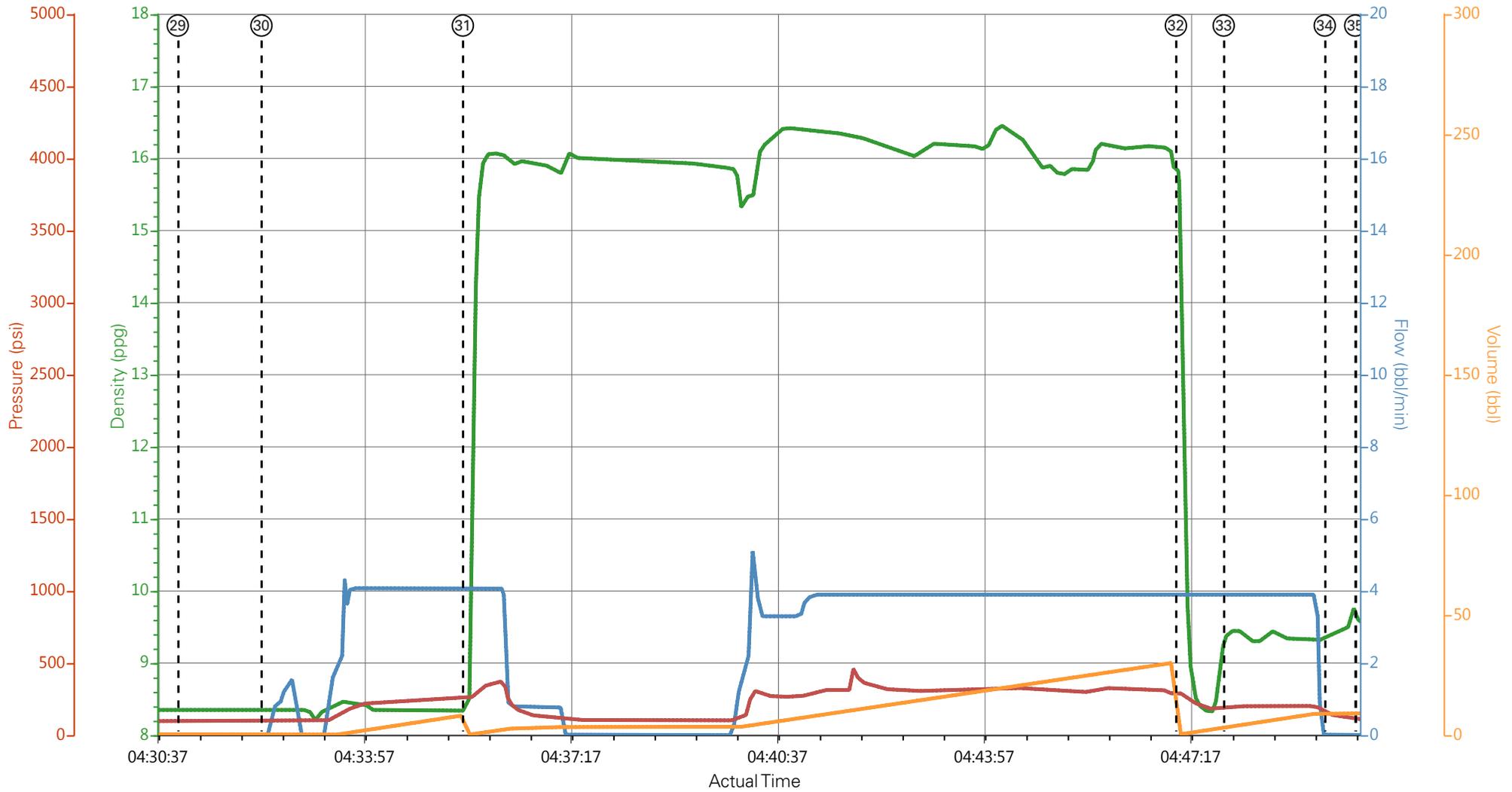
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Elite #7: JESSE SLAUGHTER / WESLEY GOWEN

WPX ENERGY - YOUBERG RU 34-7 - PTA



WPX ENERGY - YOUBERG RU 34-7 - PTA



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

- ① Call Out
- ② Pre-Convoy Safety Meeting
- ③ Crew Leave Yard
- ④ Arrive At Loc
- ⑤ Assessment Of Location Safety Meeting
- ⑥ Spot Equipment
- ⑦ Pre-Rig Up Safety Meeting
- ⑧ Rig Up The Equipment
- ⑨ Pre-Job Safety Meeting
- ⑩ Start Job
- ⑪ Prime Pumps
- ⑫ Test Lines
- ⑬ Check weight
- ⑭ Pump H2O Spacer Ahead
- ⑮ Pump Cement
- ⑯ Pump H2O Spacer Behind
- ⑰ Pump Displacement
- ⑱ Shutdown
- ⑲ End Job
- 20 Rig Pull Pipe
- 21 Start Job
- 22 Pump H2O Spacer Ahead
- 23 Pump Cement
- 24 Pump H2O Spacer Behind
- 25 Pump D
- 26 Shutdo
- 27 End Job
- 28 Rig Pull

HALLIBURTON | iCem® Service

Created: 2015-05-29 07:59:37, Version: 4.1.107

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Job Date : 5/30/2015 2:05:36 PM

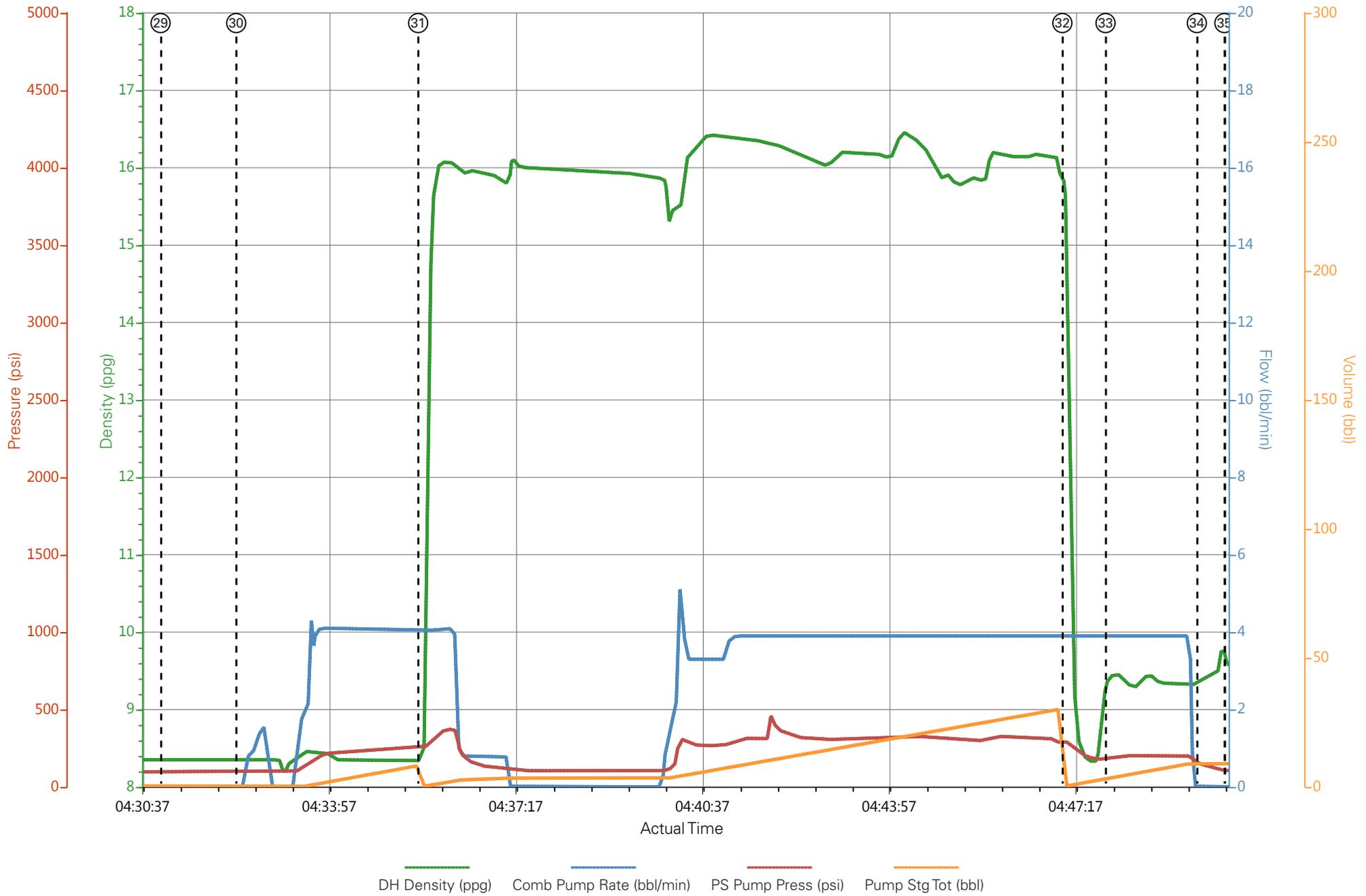
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Representative : AL HARTL

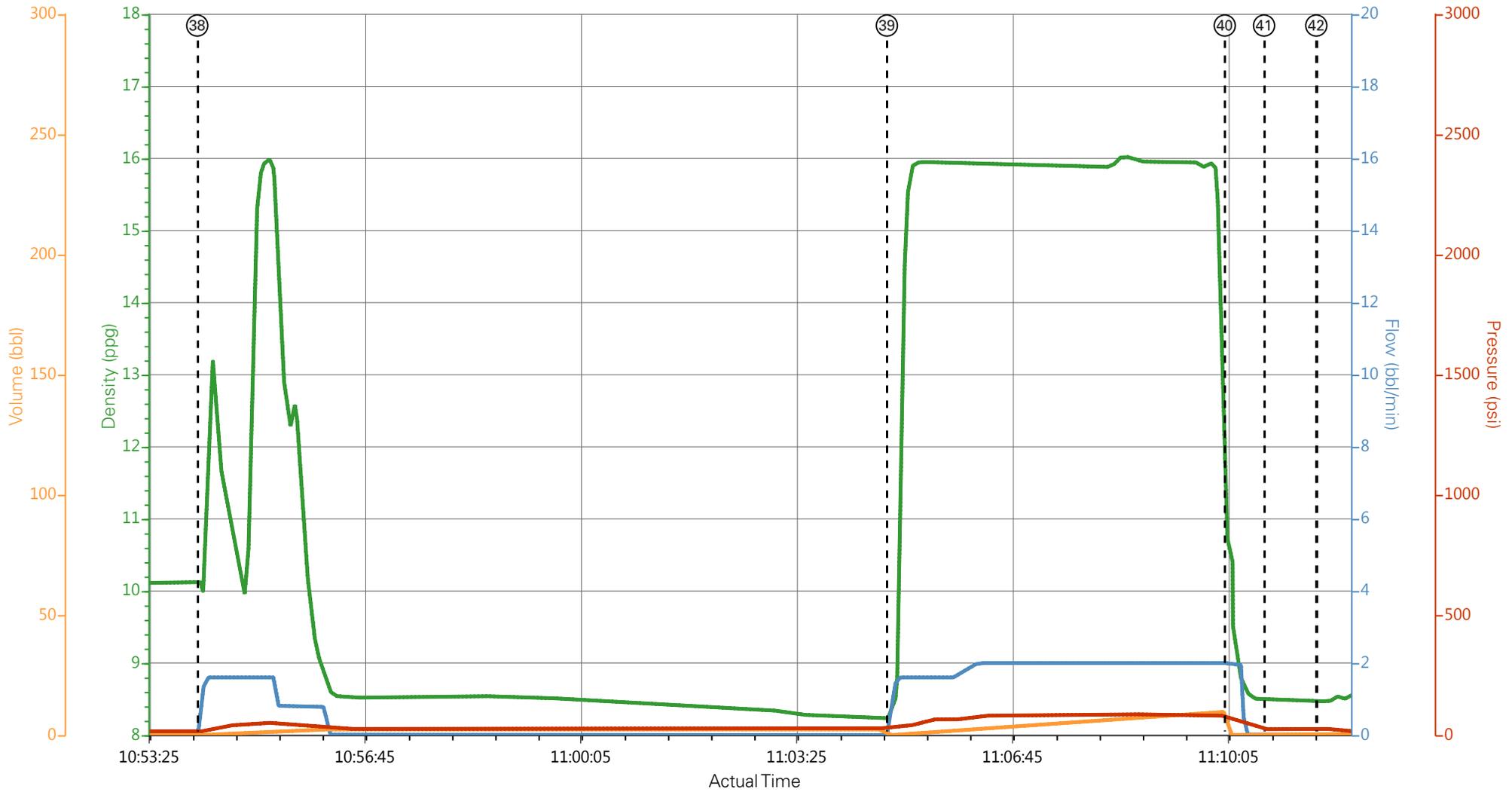
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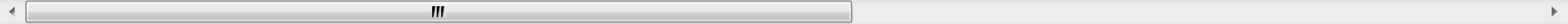


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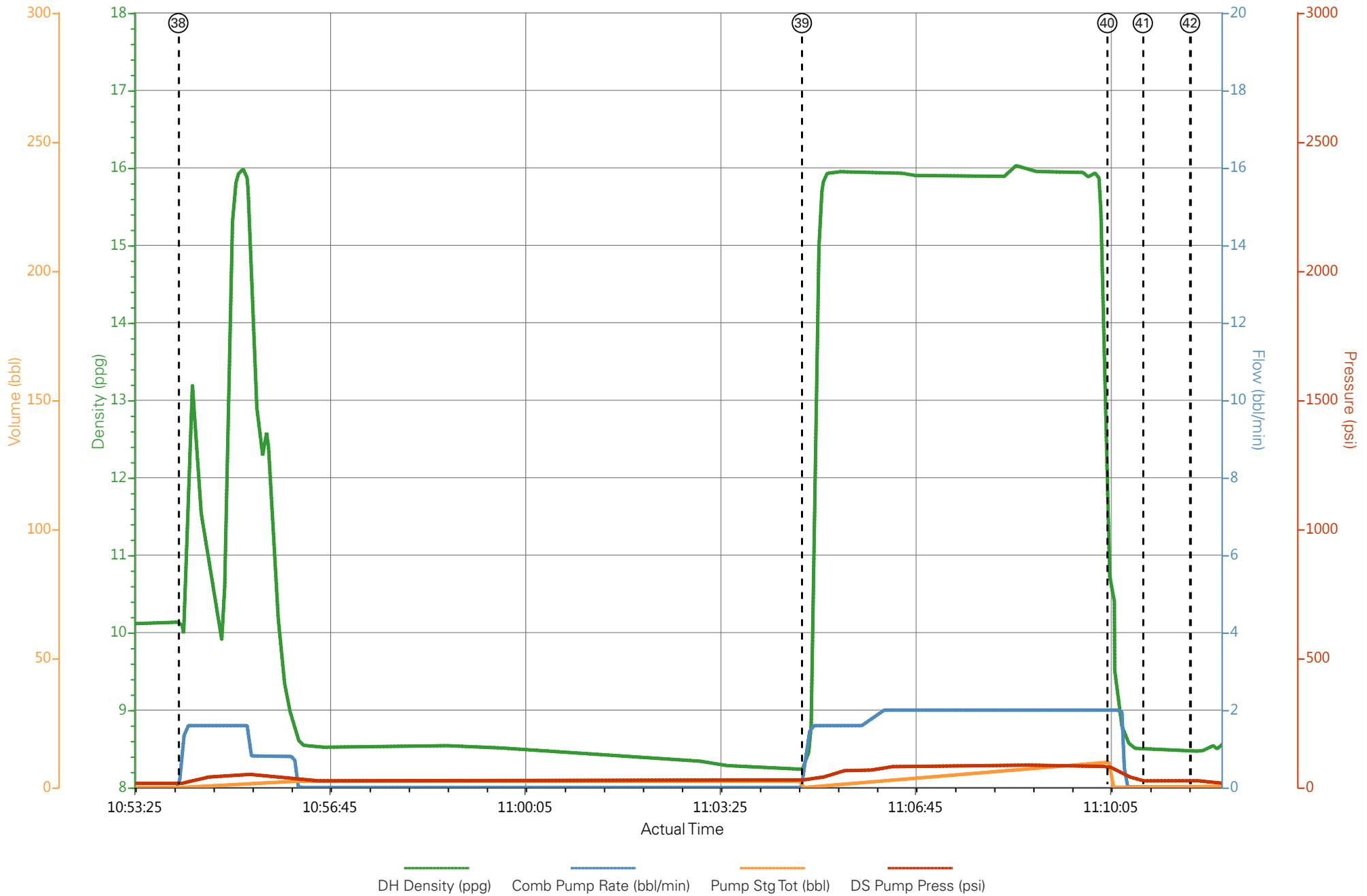


— DH Density (ppg)
 — Comb Pump Rate (bbl/min)
 — Pump Stg Tot (bbl)
 — DS Pump Press (psi)

- | | | | | | | |
|-----------------------------|---|--------------------------|--------------------------|---------------------|---------------------------|-------------|
| ① Call Out | ⑤ Assessment Of Location Safety Meeting | ⑨ Pre-Job Safety Meeting | ⑬ Check weight | ⑰ Pump Displacement | 21 Start Job | 25 Pump D |
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| ④ Arrive At Loc | ⑧ Rig Up The Equipment | ⑫ Test Lines | ⑯ Pump H2O Spacer Behind | 20 Rig Pull Pipe | 24 Pump H2O Spacer Behind | 28 Rig Pull |



WPX ENERGY - YOUBERG RU 34-7 - PTA



Sales Order #: 0902454374	Line Item: 10	Survey Conducted Date: 5/30/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PLUG LOST CIRCULATION BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-22524-00
Well Name: YOUBERG RU		Well Number: 0080688986
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	5/30/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB21762
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL HARTL
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

Sales Order #: 0902454374	Line Item: 10	Survey Conducted Date: 5/30/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PLUG LOST CIRCULATION BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-22524-00
Well Name: YOUBERG RU		Well Number: 0080688986
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	5/30/2015
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)	8
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	6
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 #: 0902454374	Line Item: 10	Survey Conducted Date: 5/30/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PLUG LOST CIRCULATION BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-22524-00
Well Name: YOUBERG RU		Well Number: 0080688986
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

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.	
Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment? Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	None
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)	Not Available
If applicable, was Halliburton float equipment used? (Yes/No/N/A) If applicable, was Halliburton float equipment used? (Yes/No/N/A)	Not Available
If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A)	Not Available
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	94
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
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	4
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0