



# IDAHO OIL AND GAS CONSERVATION COMMISSION PLUGGING RECORD

Lease Name: Federal  
 Operator: CPC Mineral LLC Address: 4244 West Sandalwood Dr. Cedar Hills, UT 84062  
 Well Number: 20-3 Field & Reservoir: Wildcat  
 Location of Well:(Sec.-TWP-Range or Block & Survey) SENW Sec. 20 T3S - R43E County: Bonneville

Application to Drill this Well was filled in the name of	Has this Well ever produced Oil or Gas? No	Character of Well at Completion (initial production): Oil (bbls/day) 0 Gas (MCF/day) 0 Water (bbls/day) 0		
Date Plugged: 11/23/2017	Total Depth 7035 ' TD / 6997 ' TVD	Amount Well Producing when Plugged: Oil (bbls/day) 0 Gas (MCF/day) 0 Water (bbls/day) 0		
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging.	Fluid Content of each Formation	Depth Interval of each Formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement.	
Dry-Hole, no oil or gas encountered.			Please see attachment for details regarding plugging of well.	

### CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
9-5/8"	2022' GL	n/a	2022'		

Was well filled with mud-laden fluid, according to regulations?  
Yes

Indicate deepest formation containing fresh water  
No fresh water encountered.

### NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well
Todd Morris	351 E. 300 N Blackfoot, ID, 83221	Surface Owner

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required. \_\_\_\_\_  
n/a

Use reverse side for additional detail.  
File this form in duplicate with Director, Idaho Department of Lands, Boise, Idaho.

CERTIFICATE: I, the undersigned, state that I am the Designated Agent (Sr. Regulatory Analyst Progressive Consulting) of the CPC Mineral LLC (company), and that I am authorized by said company to make this report and that this report was prepared under my supervision and direction and that the facts stated herein are true, correct and complete to the best of my knowledge.

12/06/2017  
Date

Ashley Noonan  
Signature

Federal 20-3

API: 11-019-20014

Plugging Summary

**Plug #1** : 4-1/2" 16.6LB/FT

Set Depth: 6995'

Cement: Pump 9.2 BBL PLUGCEM Cement. (45 sks at 15.8 ppg, 1.15 FT<sup>3</sup>/sk, 4.94 gal/sk)

**Plug #2:** (Top of Plug calc @ 4676')

Set Depth 4773'.

Cement: Pump 9.2 BBL PLUGCEM Cement. (45 sks at 15.8 ppg, 1.15 FT<sup>3</sup>/sk, 4.94 gal/sk)

**Plug #3:** (Cmt plug tagged @ 1980')

Set Depth: 2080'. (Set below the 9-5/8" csg set depth of 2022')

Cement: Pump 9.2 BBL PLUGCEM Cement. (45 sks at 15.8 ppg, 1.15 FT<sup>3</sup>/sk, 4.94 gal/sk)

**Plug #4:** (returned 2 bbl cmt to surface)

Set Depth: 126'.

Cement: Pump 14.3 BBL PLUGCEM Cement. (70 sks at 15.8 ppg, 1.15 FT<sup>3</sup>/sk, 4.94 gal/sk)

CPC Mineral LLC

Fed ID# 20-3

Lease ID# XDE-35687

SE/4 NW/4 SEC 20

T3S R 43E

# HALLIBURTON

iCem<sup>®</sup> Service

## **ENERGY SUMMIT RESOURCES**

**For: RICK OMAN**

Date: Thursday, November 23, 2017

### **FEDERAL 20-3**

FEDERAL

ENERGY SUMMIT FEDERAL 20-3 PTA

Job Date: Wednesday, November 22, 2017

Sincerely,

**JEREMY YOUNG**

## Legal Notice

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services for this cementing services job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton, Rock Springs

#### Job Times

	Date	Time	Time Zone
<b>Called Out</b>	11/22/17	10:00	MST
<b>On Location</b>	11/22/17	16:00	MST
<b>Job Started</b>	11/22/17	21:13	MST
<b>Job Completed</b>	11/23/17	15:35	MST
<b>Departed Location</b>	11/23/17	17:00	MST

## 1.2 Job Overview

		Units	Description
1	Surface temperature at time of job	°F	40
2	Mud type (OBM, WBM, SBM, Water, Brine)	lb/gal	WBM
3	Actual mud density	lb/gal	9.1
4	Time circulated before job	HH:MM	21:00
5	Mud volume circulated	Bbls	9000
6	Rate at which well was circulated	Bpm	8
7	Pipe movement during hole circulation	Y/N	Y
8	Rig pressure while circulating	Psi	260
9	Time from end mud circulation to start of job	HH:MM	00:15
10	Pipe movement during cementing	Y/N	N
11	Calculated displacement	Bbls	93.4
12	Job displaced by	Rig/HES	HES
13	Annular before job)?	Y/N	N
14	Annular flow after job	Y/N	N
15	Length of rat hole	Ft	40
16	Units of gas detected while circulating	Units	N/A
17	Was lost circulation experienced at any time ?	Y/N	N

## 1.3 Plug Job Information

		Units	Description
1	Density of well fluid exiting well prior to job	lb/gal	9.1
2	Density of well fluid entering well prior to job	lb/gal	9.1
3	Was the well full prior to cementing?	Y/N	Y
4	How many joints of workstring pulled wet?	# Joints	2, 0, 0, 0
5	Depth of workstring for circulation after the plug?	ft	6322, 4221, 1475, 0
6	Calculated Plug Height (workstring out)	ft	124, 124, 123, 126



1.4 Water Analysis Report

**CEMENT MIX WATER REQUIREMENTS**

Item	Recorded Test Value	Units	Max. Acceptable Limit	Potential Problems in Exceeding Limit
pH	7	----	6.0 - 8.0	Chemicals in the water can cause severe retardation
Chlorides	0	ppm	3000 ppm	Can shorten thickening time of cement
Sulfates	<200	ppm	1500 ppm	Will greatly decrease the strength of cement
Total Hardness	250	ppm	500 mg/L	High concentrations will accelerate the set of the cement
Calcium	0	ppm	500 ppm	High concentrations will accelerate the set of the cement
Total Alkalinity	240	ppm	1000 ppm	Cement is greatly retarded to the point where it may not set up at all (typically occurs @ pH ≥ 8.3).
Potassium	0	ppm	5000 ppm	High concentrations will shorten the pump time of cement (indicates the presence of chlorides, therefore if Potassium levels are measured as high, so should the chlorides)
Iron	0	ppm	300 ppm	High concentrations will accelerate the set of the cement
Temperature	73	°F	50-80 °F	High temps will accelerate; Low temps may risk freezing in cold weather
Magnesium	250	ppm	300 ppm	High concentrations will accelerate the set of the cement <b>Calculation Method: Subtract tested "Calcium" value from "Total Hardness" value.</b>

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	Call Out	11/22/2017	10:00:00	USER					CREW CALLED OUT AT 10:00 TO ENERGY SUMMIT PTA. REQUESTED ON LOCATION ASAP.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	11/22/2017	10:45:00	USER					WITH ALL HES PERSONNEL
Event	3	Crew Leave Yard	Crew Leave Yard	11/22/2017	11:00:00	USER					
Event	4	Arrive At Loc	Arrive At Loc	11/22/2017	16:00:00	USER					RIG WAS ON BOTTOM CIRCULATING UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	11/22/2017	16:05:00	USER					WITH ALL HES PERSONNEL
Event	6	Other	Other	11/22/2017	16:10:00	USER					SPOT EQUIPMENT
Event	7	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	11/22/2017	16:20:00	USER					WITH ALL HES PERSONNEL
Event	8	Rig-Up Equipment	Rig-Up Equipment	11/22/2017	16:30:00	USER					1-RCM ELITE PUMP TRUCK, 1-660 FT3 BULK TRUCK, 1-IRON TRUCK
Event	9	Rig-Up Completed	Rig-Up Completed	11/22/2017	17:30:00	USER					
Event	10	Pre-Job Safety Meeting	Pre-Job Safety Meeting	11/22/2017	19:30:00	USER	2.00	0.10	0.00	0.1	WITH ALL PERSONNEL ON LOCATION
Event	11	Start Job	Start Job	11/22/2017	20:13:00	USER	2.00	8.51	0.00	0.0	PLUG #1. DP-6995' OF 4 1/2" 16.6 LB/FT, HOLE-8 3/4", MUD WT-9.1 PPG

											WBM
Event	12	Pump Water	Pump Water	11/22/2017	20:14:47	USER	42.00	4.16	0.90	0.1	PUMP 5 BBL H2O TO FILL LINES. PUMPED AT 2 BPM WITH 190 PSI.
Event	13	Shutdown	Shutdown	11/22/2017	20:17:15	USER	146.00	8.34	0.00	5.1	SHUTDOWN TO LINE OUT VALVES TO PRESSURE TEST
Event	14	Pressure Test	Pressure Test	11/22/2017	20:20:45	USER	5023.00	8.34	0.00	0.1	SET KICKOUTS TO 500 PSI FOR LOW TEST TO ENSURE KICKOUTS ARE FUNCTIONING. BROUGHT PRESSURE UP TO 5000 PSI FOR HIGH TEST.
Event	15	Pump Water	Pump Water	11/22/2017	20:39:17	USER	12.00	7.93	0.00	0.0	PUMP 10.9 BBL H2O AHEAD OF PLUG. PUMP AT 4 BPM WITH 260 PSI.
Event	16	Pump Cement	Pump Cement	11/22/2017	20:42:20	USER	278.00	10.22	4.00	10.8	PUMP 9.2 BBL PLUGCEM CEMENT. 45 SKS AT 15.8 PPG, 1.15 FT3/SK, 4.94 GAL/SK. PUMPED AT 4 BPM WITH 150 PSI. USED 19 LBS HR-5 IN MIX WATER.
Event	17	Pump Water	Pump Water	11/22/2017	20:44:40	USER	173.00	15.00	4.00	9.3	PUMP 4.1 BBL H2O BEHIND PLUG TO BALANCE. PUMPED AT 4 BPM WITH 60 PSI.
Event	18	Pump Displacement	Pump Displacement	11/22/2017	20:46:00	USER	96.00	9.34	4.00	0.4	PUMP 93.4 BBL WBM TO DISPLACE DP. PUMPED AT 4 BPM WITH 170 PSI.
Event	19	Shutdown	Shutdown	11/22/2017	21:09:11	USER	93.00	10.24	0.10	86.7	SHUTDOWN TO LET PLUG BALANCE. TOP OF PLUG CALCULATED AT 6871'
Event	20	Pulling Out Of Hole	Pulling Out Of Hole	11/22/2017	21:17:00	USER	-38.00	10.67	0.00	86.7	RIG PULL OUT OF PLUG AT APPROX 60 FT/MIN. JOINTS 1 & 2 PULLED WET, REMAINING JOINTS PULLED DRY. PULLED DP UP TO

											6322 FT
Event	21	Circulate Well	Circulate Well	11/22/2017	21:48:00	USER	-24.00	-0.77	0.00	12.6	RIG CIRCULATE WELL WITH MUD AT 8 BPM 250 PSI. CIRCULATED 490 BBL WITH NO CEMENT TO SURFACE.
Event	22	Start Job	Start Plug #2	11/23/2017	00:18:00	USER	-12.00	8.29	0.00	0.0	PLUG #2. DP SET AT 4773'
Event	23	Pump Water	Pump Water	11/23/2017	00:20:00	USER	-10.00	8.33	0.00	0.0	PUMP 15.9 BBL H2O AHEAD OF PLUG. PUMPED AT 4 BPM WITH 230 PSI
Event	24	Pump Cement	Pump Cement	11/23/2017	00:24:20	USER	231.00	8.36	4.00	16.3	PUMP 9.2 BBL PLUGCEM CEMENT. 45 SKS AT 15.8 PPG, 1.15 FT3/SK, 4.97 GAL/SK. PUMPED AT 4 BPM WITH 280 PSI. USED 12.7 LBS HR-5 IN MIX WATER.
Event	25	Pump Water	Pump Water	11/23/2017	00:26:45	USER	156.00	13.67	4.00	0.1	PUMP 4.1 BBL H2O BEHIND PLUG TO BALANCE. PUMPED AT 4 BPM WITH 90 PSI.
Event	26	Pump Displacement	Pump Displacement	11/23/2017	00:27:50	USER	54.00	8.20	4.00	4.4	PUMP 61.8 BBL WBM TO DISPLACE DP. PUMPED AT 4 BPM WITH 140 PSI
Event	27	Shutdown	Shutdown	11/23/2017	00:42:00	USER	89.00	10.40	1.80	56.3	SHUTDOWN TO LET PLUG BALANCE. TOP OF PLUG CALCULATED AT 4676'
Event	28	Pulling Out Of Hole	Pulling Out Of Hole	11/23/2017	00:46:00	USER	-29.00	8.51	0.00	56.3	RIG PULL OUT OF PLUG AT APPROX 60 FT/MIN. ALL JOINTS PULLED DRY. PULLED UP TO 4221 FT
Event	29	Circulate Well	Circulate Well	11/23/2017	01:08:00	USER	64.00	7.85	2.40	59.8	RIG CIRCULATE WELL WITH WBM AT 8 BPM 150 PSI. CIRCULATED 400 BBL WITH NO CEMENT TO SURFACE.
Event	30	Start Job	Start Plug #3	11/23/2017	03:33:50	USER	-9.00	5.01	0.00	0.0	PLUG #3. DP SET AT 2080',

				7								PREV CSG SET AT 2022' 9 5/8" 36 LB/FT, OPEN HOLE 8 3/4"
Event	31	Pump Water	Pump Water	11/23/2017	03:35:13	USER	-10.00	4.34	0.80	0.0		PUMP 16 BBL H2O AHEAD OF PLUG. PUMPED AT 4 BPM WITH 180 PSI
Event	32	Pump Cement	Pump Cement	11/23/2017	03:39:34	USER	198.00	12.02	4.00	0.1		PUMP 9.2 BBL PLUGCEM CEMENT. 45 SKS AT 15.8 PPG, 1.15 FT3/SK, 5.16 GAL/SK. PUMPED AT 4 BPM WITH 290 PSI. USED 42.3 LBS CALCIUM CHLORIDE IN CEMENT.
Event	33	Pump Water	Pump Water	11/23/2017	03:42:32	USER	154.00	14.92	4.00	11.9		PUMP 4 BBL H2O BEHIND PLUG TO BALANCE. PUMPED AT 2.5 BPM WITH 35 PSI
Event	34	Pump Displacement	Pump Displacement	11/23/2017	03:44:00	USER	51.00	8.65	4.00	0.1		PUMP 23.7 BBL WBM TO DISPLACE DP. PUMPED AT 4 BPM WITH 130 PSI.
Event	35	Shutdown	Shutdown	11/23/2017	03:49:23	USER	121.00	10.35	2.50	21.4		SHUTDOWN TO LET PLUG BALANCE. TOP OF PLUG CALCULATED AT 1965'
Event	36	Pulling Out Of Hole	Pulling Out Of Hole	11/23/2017	03:52:00	USER	-18.00	8.54	0.00	21.4		RIG PULL OUT OF PLUG AT APPROX 60 FT/MIN. ALL JOINTS PULLED DRY
Event	37	Circulate Well	Circulate Well	11/23/2017	04:16:00	USER	-22.00	-0.36	0.00	10.3		RIG CIRCULATE WELL WITH WBM. CIRCULATE AT 4 BPM WITH 100 PSI. CIRCULATED 170 BBL WITH NO CEMENT TO SURFACE.
Event	38	Comment	Comment	11/23/2017	04:20:00	USER	-20.00	-0.38	0.00	10.3		WAIT 8 HRS TO TAG PLUG #3 AS PER COMPANY REP.
Event	39	Running In Hole	Running In Hole	11/23/2017	11:45:00	USER						RIG RUN IN HOLE TO TAG CEMENT PLUG. PLUG TAGGED AT 1980'

Event	40	Start Job	Start Plug #4	11/23/2017	15:08:00	USER	-19.00	8.04	0.00	0.0	PLUG #4. DP SET AT 126'.
Event	41	Pump Water	Pump Water	11/23/2017	15:09:10	USER	-17.00	8.32	0.00	0.0	PUMP 13 BBL H2O TO FILL HOLE. PUMPED AT 3 BPM WITH 20 PSI
Event	42	Shutdown	Shutdown	11/23/2017	15:14:55	USER	17.00	8.44	0.10	12.8	SHUTDOWN ONCE CIRCULATION WAS ESTABLISHED TO MIX UP CEMENT.
Event	43	Pump Cement	Pump Cement	11/23/2017	15:28:42	USER	-16.00	8.41	1.40	0.0	PUMP 14.3 PLUGCEM CEMENT. 70 SKS AT 15.8 PPG, 1.15 FT3/SK, 5 GAL/SK. PUMPED AT 3 BPM WITH 35 PSI
Event	44	Pump Water	Pump Water	11/23/2017	15:33:09	USER	112.00	15.85	2.90	12.9	PUMP 2 BBL H2O TO FLUSH LINES
Event	45	Shutdown	Shutdown	11/23/2017	15:33:37	USER	66.00	8.91	2.10	14.2	
Event	46	Pulling Out Of Hole	Pulling Out Of Hole	11/23/2017	15:38:00	USER	-18.00	-0.08	0.00	0.0	RIG PULL ALL THE WAY OUT OF HOLE
Event	47	End Job	End Job	11/23/2017	15:39:00	USER	-20.00	-0.08	0.00	0.0	RETURNED 2 BBL CEMENT TO SURFACE. USED 30 LBS SUGAR IN CEMENT RETURNS
Event	48	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	11/23/2017	15:45:00	USER	-20.00	-0.09	0.00	0.0	WITH ALL HES PERSONNEL
Event	49	Rig-Down Equipment	Rig-Down Equipment	11/23/2017	15:50:00	USER	-19.00	-0.11	0.00	0.0	
Event	50	Rig-Down Completed	Rig-Down Completed	11/23/2017	16:45:00	USER					
Event	51	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	11/23/2017	16:50:00	USER					WITH ALL HES PERSONNEL
Event	52	Crew Leave Location	Crew Leave Location	11/23/2017	17:00:00	USER					

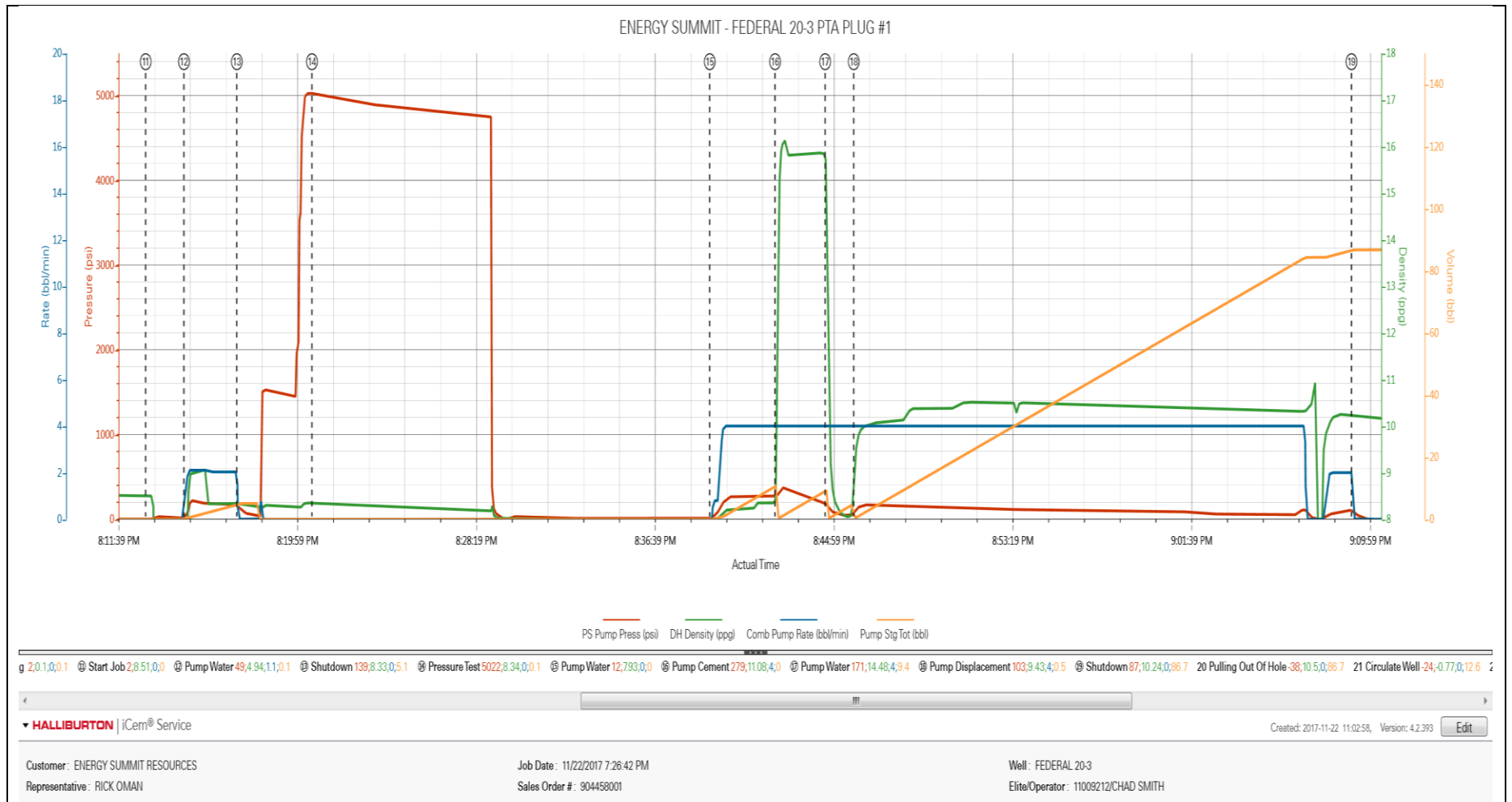
Event	53	Comment	Comment	11/23/2017	17:01:00	USER
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THANK YOU FOR USING  
HALLIBURTON CEMENT  
DEPARTMENT. JEREMY  
YOUNG AND CREW

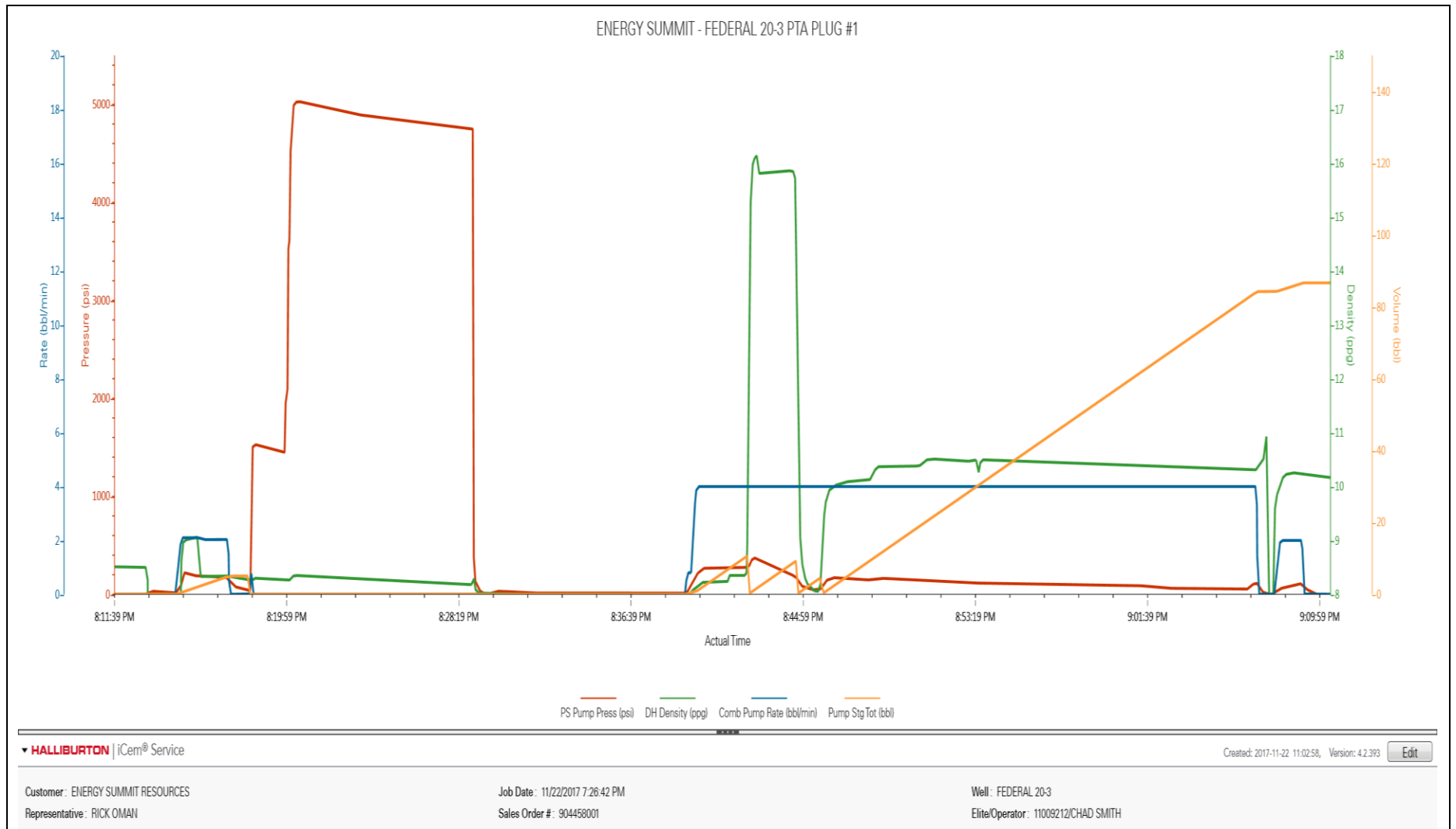
3.0 Attachments

3.1 ENERGY SUMMIT FEDERAL 20-3 PTA PLUG #1-WITH EVENTS.png

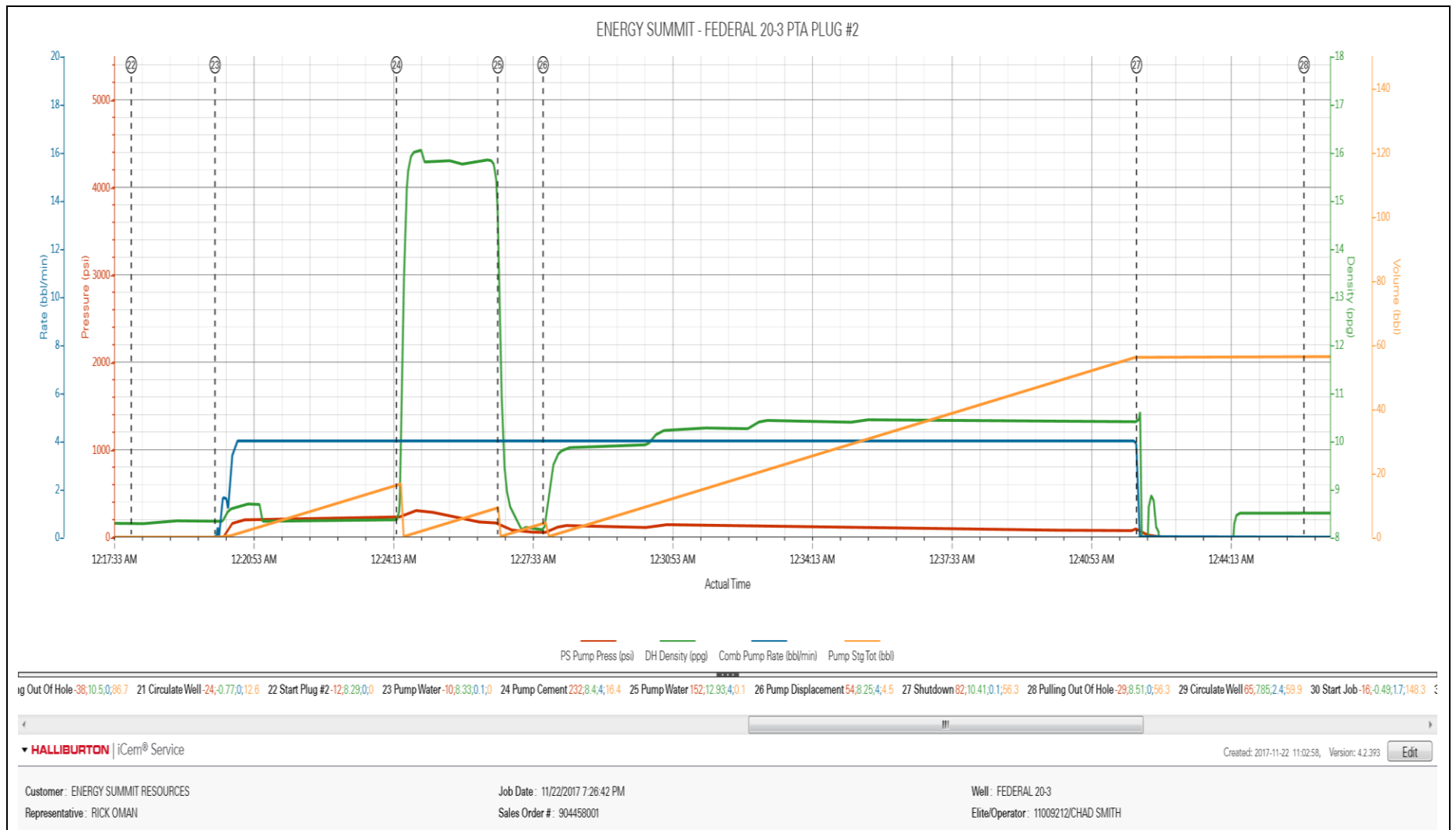




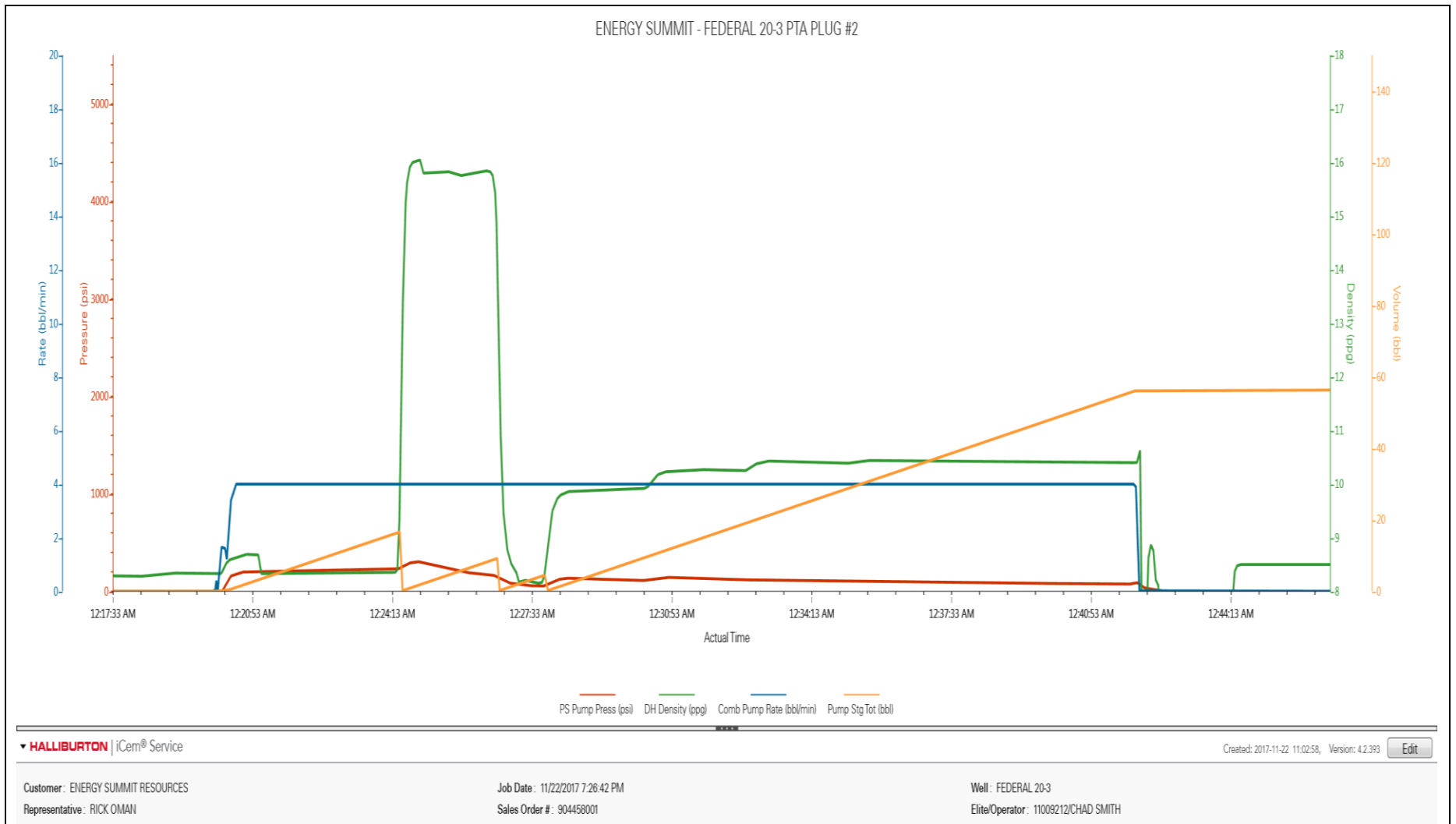
3.2 ENERGY SUMMIT FEDERAL 20-3 PTA PLUG #1-WITHOUT EVENTS.png



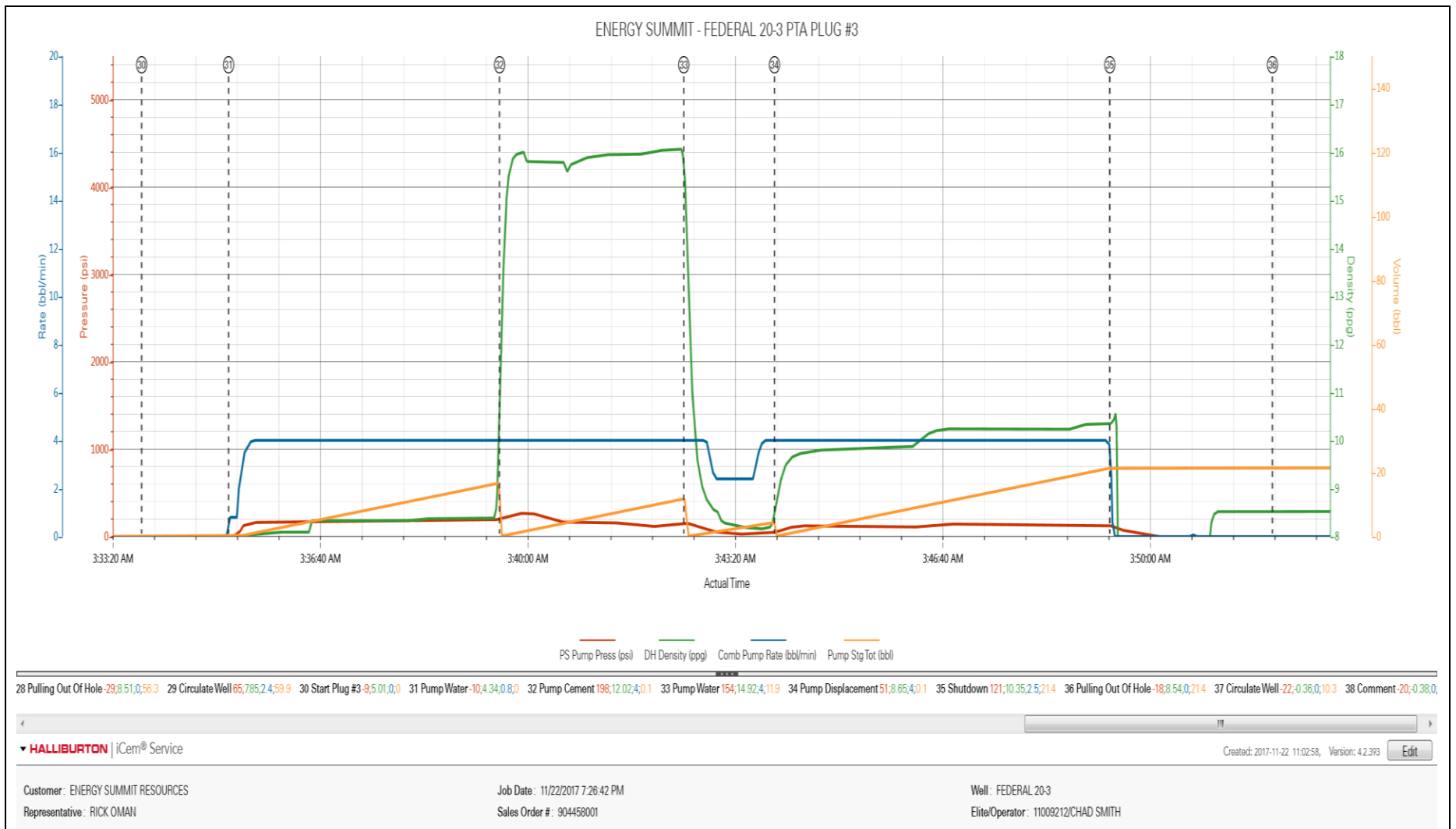
3.3 ENERGY SUMMIT FEDERAL 20-3 PTA PLUG #2-WITH EVENTS.png



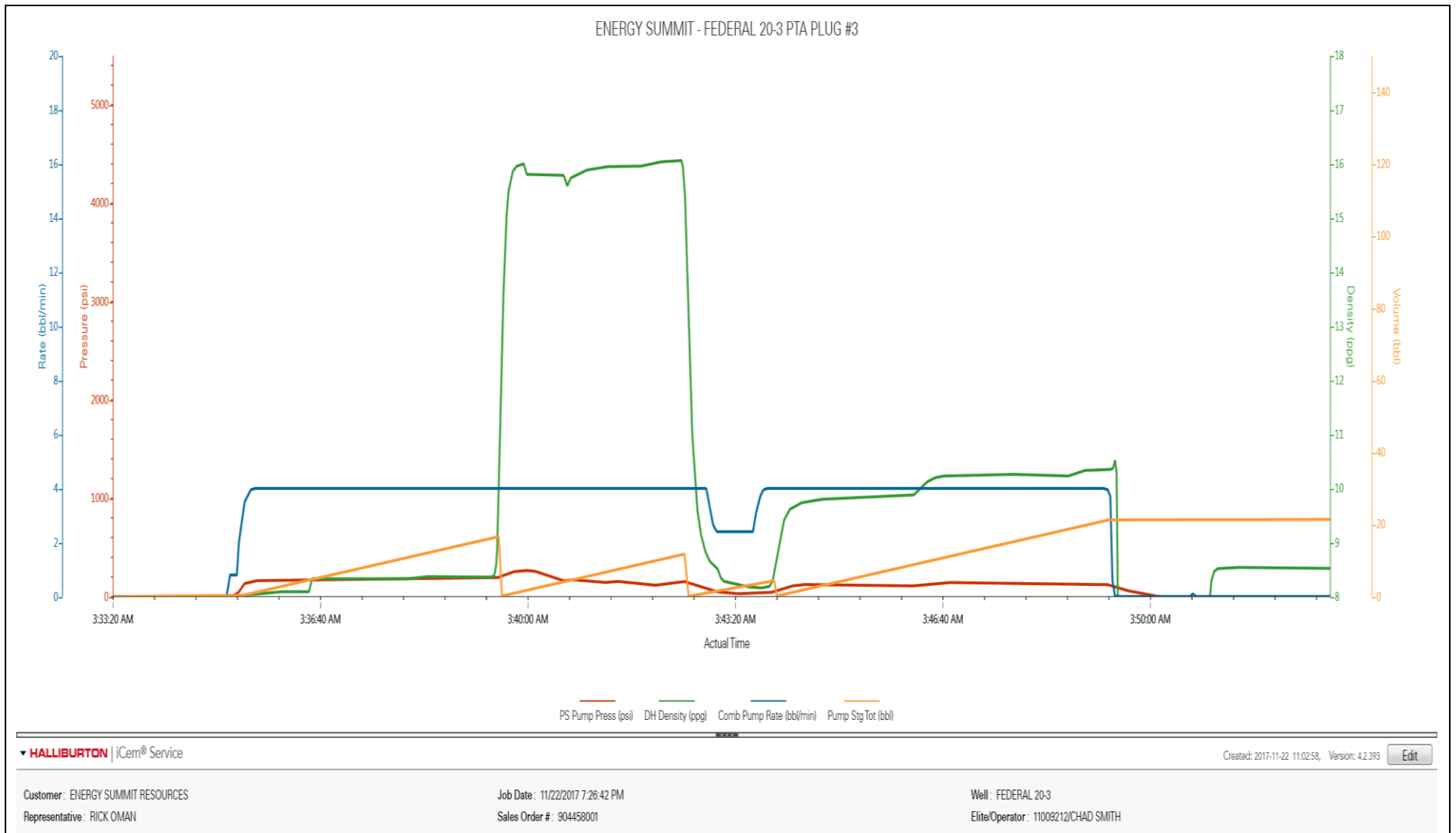
3.4 ENERGY SUMMIT FEDERAL 20-3 PTA PLUG #2-WITHOUT EVENTS.png



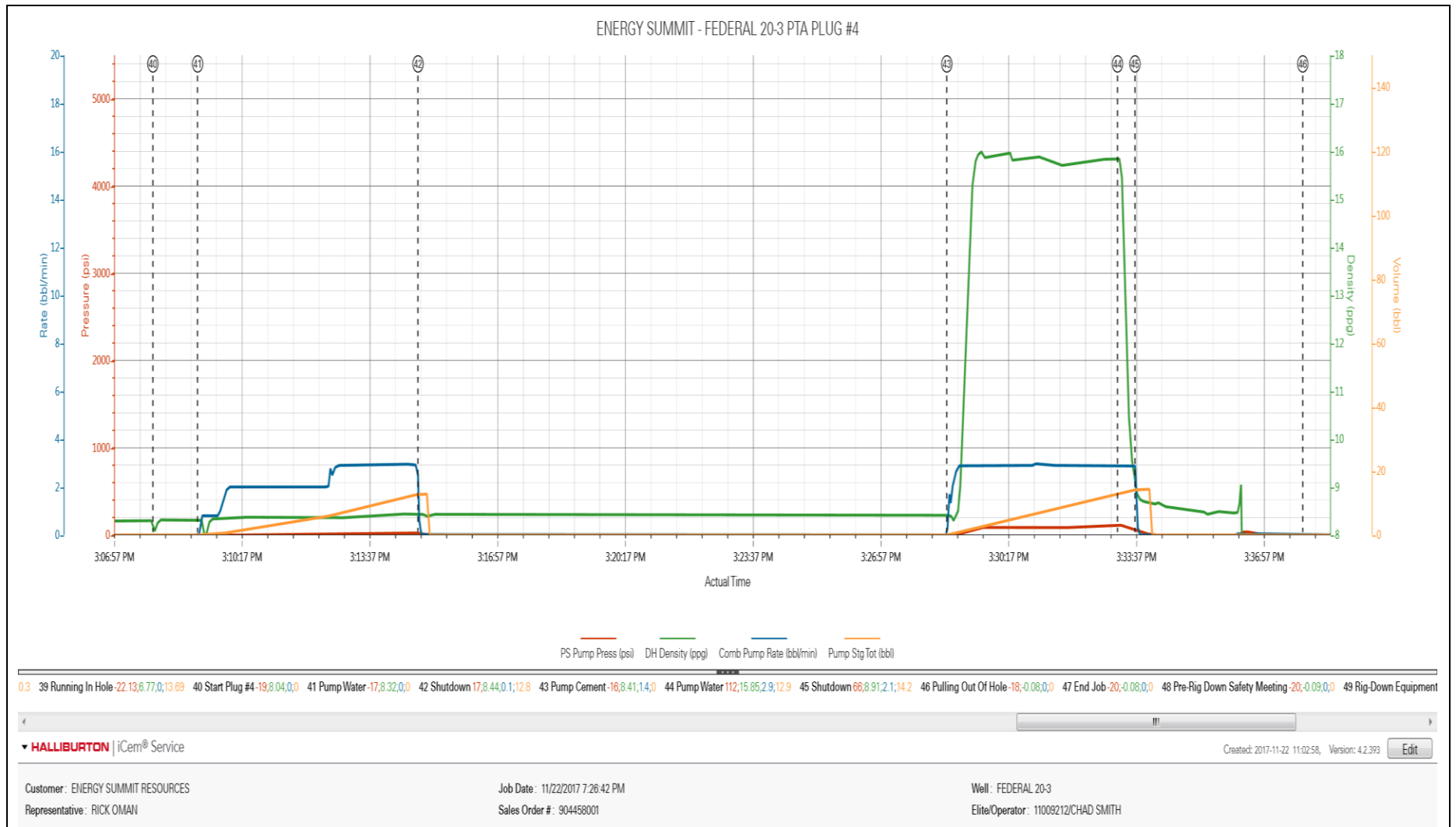
### 3.5 ENERGY SUMMIT FEDERAL 20-3 PTA- PLUG #3-WITH EVENTS.png



3.6 ENERGY SUMMIT FEDERAL 20-3 PTA PLUG #3-WITHOUT EVENTS.png



3.7 ENERGY SUMMIT FEDERAL 20-3 PTA PLUG #4-WITH EVENTS.png



3.8 ENERGY SUMMIT FEDERAL 20-3 PTA PLUG #4-WITHOUT EVENTS.png

