

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Tuesday, March 28, 2017

TR 334-27-597 PTA

API# 05-045-23333-00

Sincerely,

Grand Junction Cement Engineering

2.0 Real-Time Job Summary

2.1 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)	Comments
Event	1	Call Out	3/27/2017	00:00:00	USER					CREW WAITING IN FIELD
Event	2	Pre-Convoy Safety Meeting	3/27/2017	03:30:00	USER					CREW RETURN TO YARD FOR CEMENT AND CHEMICALS
Event	3	Crew Leave Yard	3/27/2017	04:00:00	USER					1-ELITE, 2-660 BULK TRAILER, 1-450 PICK
Event	4	Arrive at Location from Other Job or Site	3/27/2017	08:00:00	USER					DISCUSSED NUMBERS AND TOTALS WITH COMPANY REP AND LOCATION HAZZARDS. SDS OFFERED.
Event	5	Assessment Of Location Safety Meeting	3/27/2017	08:30:00	USER					DISCUSSED LOCATION HAZARDS
Event	6	Pre-Rig Up Safety Meeting	3/27/2017	09:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	3/27/2017	10:30:00	USER					1-ELITE, 2-660 BULK TRAILER, 4" SUCTION HOSE, 2" PUMP IRON, 1-4.5" XH DRILL PIN, 2" LO TORQ
Event	8	Other	3/27/2017	10:55:00	USER					WATER TEST - TEMP-45, CL-0, PH-7
Event	9	Pre-Job Safety Meeting	3/27/2017	14:20:00	USER					ALL HES AND RIG CREW PRESENT
Event	10	Start Job	3/27/2017	14:46:00	COM5	8.39	0.00	0.00	0.0	PLUG ONE. SCSG - 9.625" 36# SHOE AT 2799', OH- 8.75", KICK OFF POINT 4800' AND DRILLED TO 9902'. DP- 4.5" 16.6# OPEN ENDED, 80 BBL SLUG PUMPED AT 4520' 120-140 VISC, MUD-8.9PPG
Event	11	Prime Pumps	3/27/2017	14:48:51	USER	8.31	2.0 0	31.00	2.0	FRESH WATER
Event	12	Test Lines	3/27/2017	14:52:03	COM5	8.47	0.00	2485.00	2.00	ALL PRESSURE HELD ON LINES
Event	13	Pump Spacer 1	3/27/2017	15:00:08	COM5	12.00	3.00	117.00	31.75	TUNED SPACER III, 12.0PPG, 3.2CF/SK, 20.1 GAL/SK
Event	14	Shutdown	3/27/2017	15:15:08	USER					SHUTDOWN TO MIX CEMENT AND VERIFYIY WEIGHT
Event	15	Pump Cement	3/27/2017	15:18:27	COM5	15.80	3.00	190.00	33.8	G CEMENT 165 SKS, 15.8 PPG, 1.15 CF/SK, 5.01 GAL/SK, 9 GAL HR 6 THROUGH MIX WATER

Event	16	Pump Spacer 2	3/27/2017	15:30:15	COM5	12.0	3.00	81.00	8.25	TUNED SPACER III, 12.0 PPG, 3.2CF/SK, 20.1 GAL/SK
Event	17	Pump Spacer 2	3/27/2017	15:34:16	COM5	8.33	2.20	63.00	1.0	1 BBL H2O
Event	18	Shutdown	3/27/2017	15:34:50	USER	8.35	0.00	60.00	1.0	SWAPPED TO RIG TO FINISH DISPLACEMENT
Event	19	End Job	3/27/2017	15:36:00	COM5	8.33	0.00	3.00	0.0	
Event	20	Other	3/27/2017	15:40:00	COM5					RIG PUMPED 45 BBLS TOTAL MUD. 35 BBLS @ 10 BPM PSI 151. SLOWED TO 4 BPM LAST 10 BBLS 0 PRESSURE
Event	21	Other	3/27/2017	16:34:52	USER					RIG PULLED 12 STANDS ALL WERE DRY, AND CIRCULATED 75 BBLS TO CLEAN DRILL PIPE
Event	22	Pre-Job Safety Meeting	3/27/2017	21:45:00	USER					
Event	23	Other	3/27/2017	22:00:00	USER					PLUG 1 FELL BACK TO 4392', WAS DISCUSSED THROUGH TERRA REP'S TO PUMP REMAINING CEMENT AND ORDER MORE. BEFORE PUMPING PLUG 70 BBL 120 VISC PILL PUMPED AHEAD.
Event	24	Start Job	3/27/2017	22:06:00	COM5	8.33	0.00	4.00	0.0	PLUG 2. DP-4028', 16.6# 4.5", OH-8.75"
Event	25	Prime Pumps	3/27/2017	22:06:32	USER	8.38	1.00	170.00	2.0	FRESH WATER
Event	26	Test Lines	3/27/2017	22:09:38	COM5	8.53	0.00	2538.00	2.0	ALL PRESSURE HELD ON LINES
Event	27	Pump Spacer 1	3/27/2017	22:11:59	COM5	8.33	3.00	420.00	20.0	20 BBL FRESH WATER SPACER
Event	28	Shutdown	3/27/2017	22:19:14	USER					SHUTDOWN TO MIX HR6 IN MIX WATER AND MIX CEMENT
Event	29	Pump Cement	3/27/2017	22:27:29	COM5	15.80	3.00	230.00	25.6	G CEMENT, 125 SKS, 15.8 PPG, 1.15 CF/SK, 5.01 GAL/SK, 6 GAL HR 6 MIXED THROUGH INSIDE WATER
Event	30	Pump Spacer 2	3/27/2017	22:37:18	COM5	8.33	2.50	70.00	4.9	4.9 BBLS H2O
Event	31	Shutdown	3/27/2017	22:39:10	USER	8.33	0.00	63.00	4.9	SWAPPED TO RIG TO FINISH DISPLACEMENT
Event	32	End Job	3/27/2017	22:41:23	COM5	8.33	0.00	0.00	0.0	
Event	33	Other	3/27/2017	22:50:00	USER					RIG PUMPED 37 BBLS MUD DISPLACEMENT @ 4 BPM NO PRESSURE
Event	34	Other	3/28/2017	00:08:01	USER					RIG PULLED 10 STANDS, ALL DRY. CIRCULATED TWO BOTTOMS UP (321.6BBLS) @ 355 GPM, PRESSURE 180 PSI. GOOD CIRCULATION THROUGH OUT JOB.

Event	35	Pre-Job Safety Meeting	3/28/2017	06:00:00	USER					ALL HES AND RIG CREW PRESENT
Event	36	Start Job	3/28/2017	06:30:00	COM5	8.33	0.00	0.00	0.0	PLUG 3. DP-3995' 4.5"16.6#, OH-8.75". CEMENT WAS TAGGED AT 4003' PRIOR TO JOB.
Event	37	Prime Pumps	3/28/2017	06:31:15	USER	8.30	2.00	110.00	2.0	FRESH WATER
Event	38	Test Lines	3/28/2017	06:36:18	COM5	8.33	0.00	2731.00	2.0	ALL PRESSURE HELD ON LINES
Event	39	Pump Spacer 1	3/28/2017	06:38:19	COM5	8.33	3.10	240.00	20.0	20 BBLS FRESH WATER
Event	40	Shutdown	3/28/2017	06:45:20	USER					SHUTDOWN TO MIX HR6 IN MIX WATER AND MIX CEMENT
Event	41	Pump Cement	3/28/2017	06:56:04	COM5	15.80	3.10	320.00	29.7	G CEMENT, 145 SKS, 15.8 PPG, 1.15 CF/SK, 5.01 GAL/SK. 7.25GAL HR6 USED
Event	42	Pump Spacer 1	3/28/2017	07:08:24	COM5	8.33	3.10	135.00	4.9	4.9 BBLS FRESH WATER BEHIND
Event	43	Shutdown	3/28/2017	07:09:50	USER	8.27	0.00	110.00	4.9	SWAPPED TO RIG TO FINISH DISPLACEMENT
Event	44	End Job	3/28/2017	07:11:00	COM5	8.41	0.00	8.00	0.0	
Event	45	Other	3/28/2017	07:12:00	USER					RIG PUMPED 35 BBLS MUD DISPLACEMENT @ 4 BPM NO PRESSURE
Event	46	Other	3/28/2017	07:13:00	USER					PULLED 13 STANDS, ALL DRY. CIRCULATED @ 377 GPM, 200 BBLS NO PRESSURE. PUMPED WITH CHARGE PUMP. GOOD CIRCULATION THROUGH OUT JOB

2.0 Real-Time Job Summary

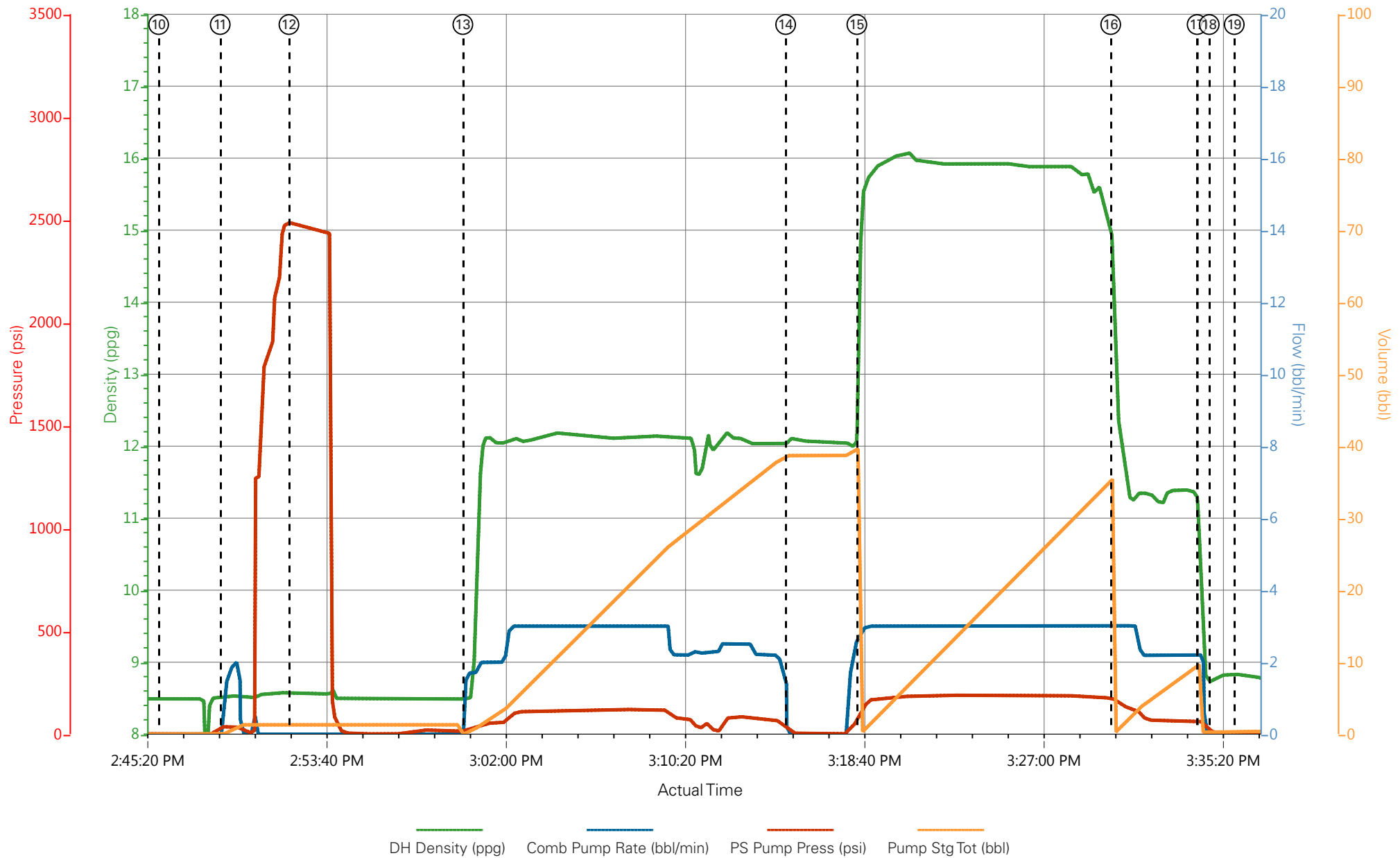
2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Other	3/28/2017	19:35:00	USER					THIS IS CONTINUED JOB LOG FOR LAST TWO PLUGS TO BE SET
Event	3	Pre-Job Safety Meeting	3/28/2017	20:40:06	USER					ALL HES AND RIG CREW PRESENT
Event	4	Start Job	3/28/2017	21:18:00	COM5	8.33	0.00	3.00	0.0	RETAINER AT 2580', SCSG- 9.625" 36#, DP- 2575' 4.5" 16.6#
Event	5	Prime Pumps	3/28/2017	21:20:13	USER	8.33	1.90	148.00	2.0	FRESH WATER
Event	6	Test Lines	3/28/2017	21:23:52	USER	8.36	0.00	2499.00	2.1	ALL PRESSURE HELD ON LINES
Event	7	Pump Spacer 1	3/28/2017	21:26:31	COM5	8.33	3.00	308.00	10.0	10 BBLS FRESH WATER
Event	8	Shutdown	3/28/2017	21:29:23	USER	8.35	0.00	302.00	10.0	SHUTDOWN TO MIX CEMENT AND HR6 IN INSIDE WATER
Event	9	Pump Cement	3/28/2017	21:35:35	COM5	15.80	3.00	290.00	15.5	G CEMENT 76 SKS, 15.8 PPG, 1.15 CF/SK, 5.01 GAL/SK 1.5 GAL HR 6
Event	10	Pump Spacer 2	3/28/2017	21:41:47	COM5	8.33	3.00	160.00	2.5	FRESH WATER 2.5 BBLS
Event	11	Shutdown	3/28/2017	21:42:46	USER	8.33	0.00	150.00	2.5	SHUTDOWN TO SWAP TO RIG PUMPS
Event	12	End Job	3/28/2017	21:44:23	COM5					
Event	13	Other	3/28/2017	21:45:00	USER					RIG PUMPED 26 BBLS MUD DISPLACEMENT AT 4 BPM NO PRESSURE
Event	14	Other	3/28/2017	21:46:00	USER					RIG PULLED 6 STANDS ALL DRY AND CIRCULATED 166BBLS 355 GPM 214 PSI. GOOD RETURNS THROUGH OUT JOB.
Event	15	Pre-Job Safety Meeting	3/29/2017	02:30:00	USER					ALL HES PRESENT
Event	16	Start Job	3/29/2017	03:04:00	COM5	8.38	0.00	9.00	0.0	SCSG-9.625" 36# SHOE AT 2799. DP-4.5" 16.6# 67'

INTO CASING, AND 24' ABOVE GROUND.

Event	17	Prime Pumps	3/29/2017	03:04:03	USER	8.39	1.50	29.00	1.5	PRIMED LINES WITH 6X5 1.5 BBLS FRESH WATER
Event	18	Test Lines	3/29/2017	03:05:09	COM5	8.48	0.00	1952.00	1.6	TESTED TO VERIFY NO LEAKS ON LINES
Event	19	Pump Cement	3/29/2017	03:14:41	COM5	15.80	2.00	90.00	8.0	G CEMENT, 40 SKS, 15.8 PPG, 1.15 CF/SK, 5.01 GAL/SK. 5 GAL LIQUID CALCIUM CHLORIDE USED
Event	20	Pump Spacer 1	3/29/2017	03:19:17	COM5	8.33	2.00	70.00	0.5	.5 BBLS FRESH WATER
Event	21	Shutdown	3/29/2017	03:19:43	USER	8.33	0.00	61.00	0.5	3 BBLS CEMENT TO SURFACE
Event	22	End Job	3/29/2017	03:22:00	COM5					
Event	23	Pre-Rig Down Safety Meeting	3/29/2017	03:30:00	USER					ALL HES PRESENT
Event	24	Rig-Down Completed	3/29/2017	04:45:00	USER					
Event	25	Pre-Convoy Safety Meeting	3/29/2017	05:30:00	USER					ALL HES PRESENT
Event	26	Crew Leave Location	3/29/2017	06:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

TERRA - CHEVRON TR 334-27-597 - PTA



① Call Out n/a;n/a;n/a;n/a ③ Crew Leave Yard n/a;n/a;n/a;n/a ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a ⑦ Rig-Up Completed 0.07;0;2;0 ⑨ Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a ④ Arrive at Location from Other Job or Site n/a;n/a;n/a;n/a ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a ⑧ Other 0.06;0;0;0 ⑩ Standby

III

HALLIBURTON | iCem® Service

Created: 2017-03-27 10:14:23, Version: 4.2.393

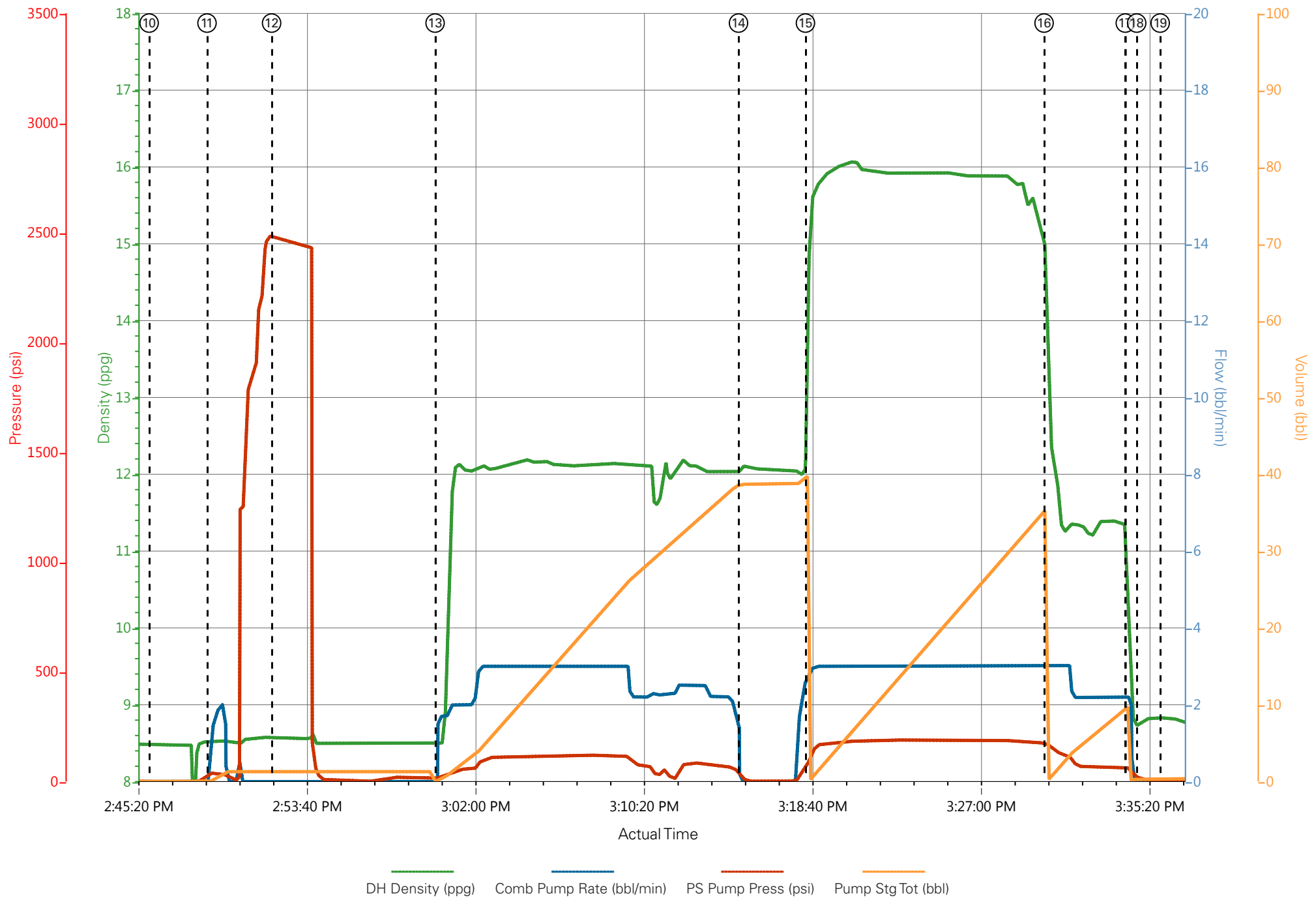
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Customer: TERRA ENERGY PARTNERS
Representative: BODIE OAKS

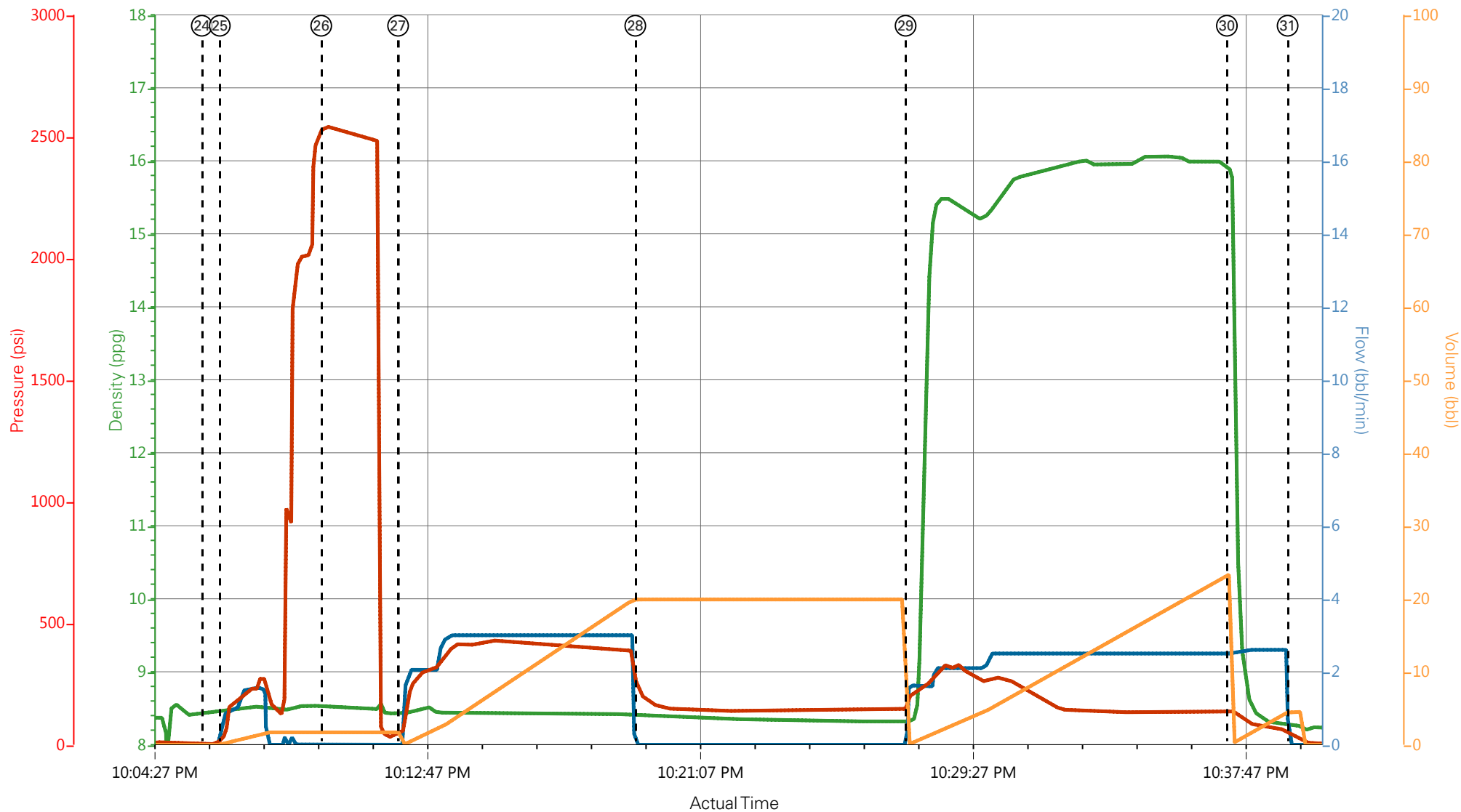
Job Date: 3/27/2017 10:17:13 AM
Sales Order #: 903932530

Well: CHEVRON TR 334-27-597
12403002 E8: S.BLOSSOM/A.BRENNECKE

TERRA - CHEVRON TR 334-27-597 - PTA



TERRA - CHEVRON TR 334-27-597 - PTA PLUG 2



DH Density (ppg) -0.29 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 2 Pump Stg Tot (bbl) 0

- | | | | | |
|---|---|-------------------------------------|------------------------------|-----------------------------|
| ① Call Out n/a;n/a;n/a;n/a | ④ Arrive at Location from Other Job or Site n/a;n/a;n/a;n/a | ⑦ Rig-Up Completed 0.07;0;2;0 | ⑩ Start Job 8.49;0;0;0 | ⑬ Pump Spacer 1 8.49;1.7;18 |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑧ Other 0.06;0;0;0 | ⑪ Prime Pumps 8.51;0.1;31;0 | ⑭ Shutdown 12.12;0;22;38.7 |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑨ Pre-Job Safety Meeting 0.06;0;3;0 | ⑫ Test Lines 8.57;0;2485;1.3 | ⑮ Pump Cement 14.63;2.7;9 |

III

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Created: 2017-03-27 10:14:23, Version: 4.2.393

Edit

Customer : TERRA ENERGY PARTNERS

Job Date : 3/27/2017 10:17:13 AM

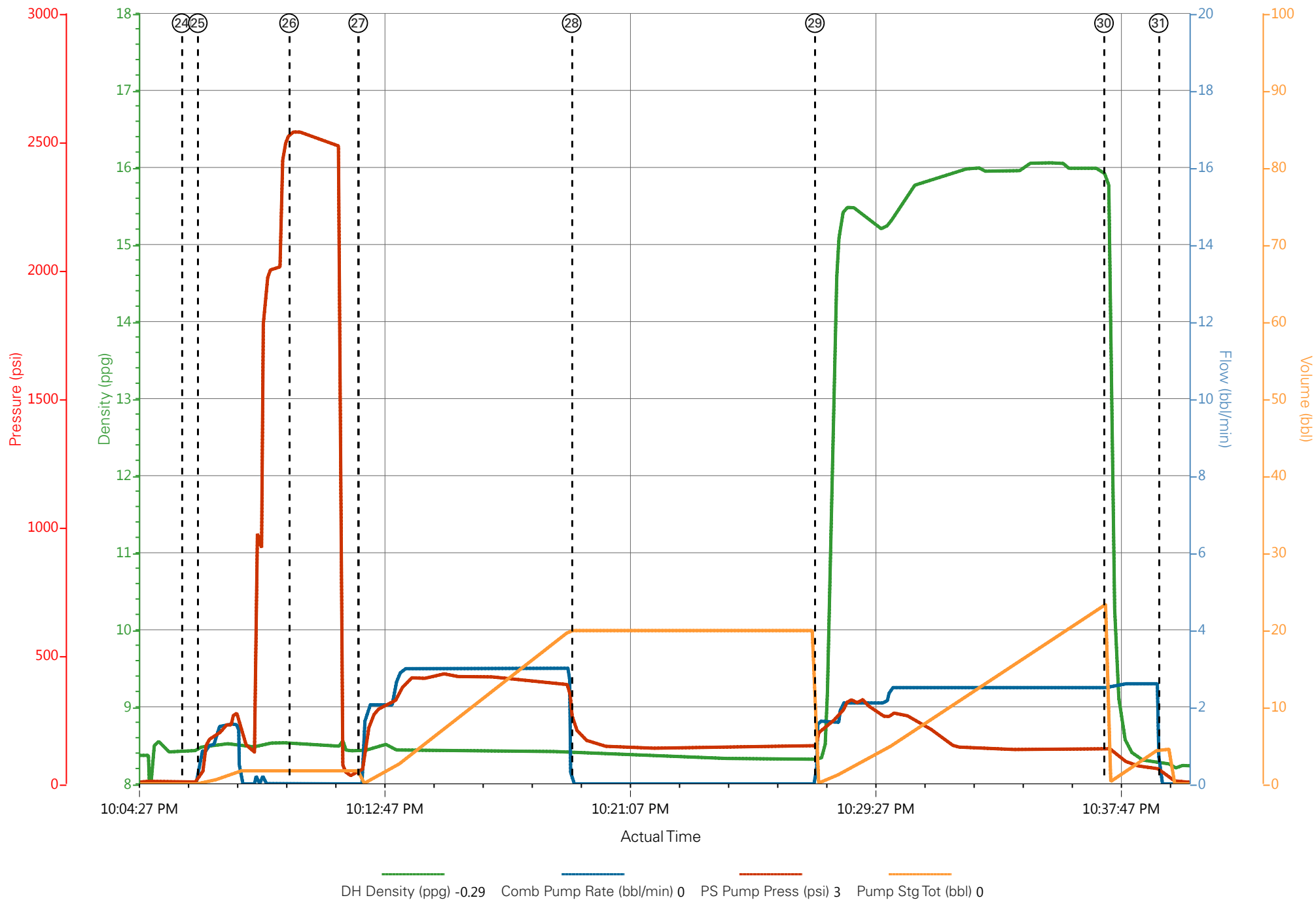
Well : CHEVRON TR 334-27-597

Representative : BODIE OAKS

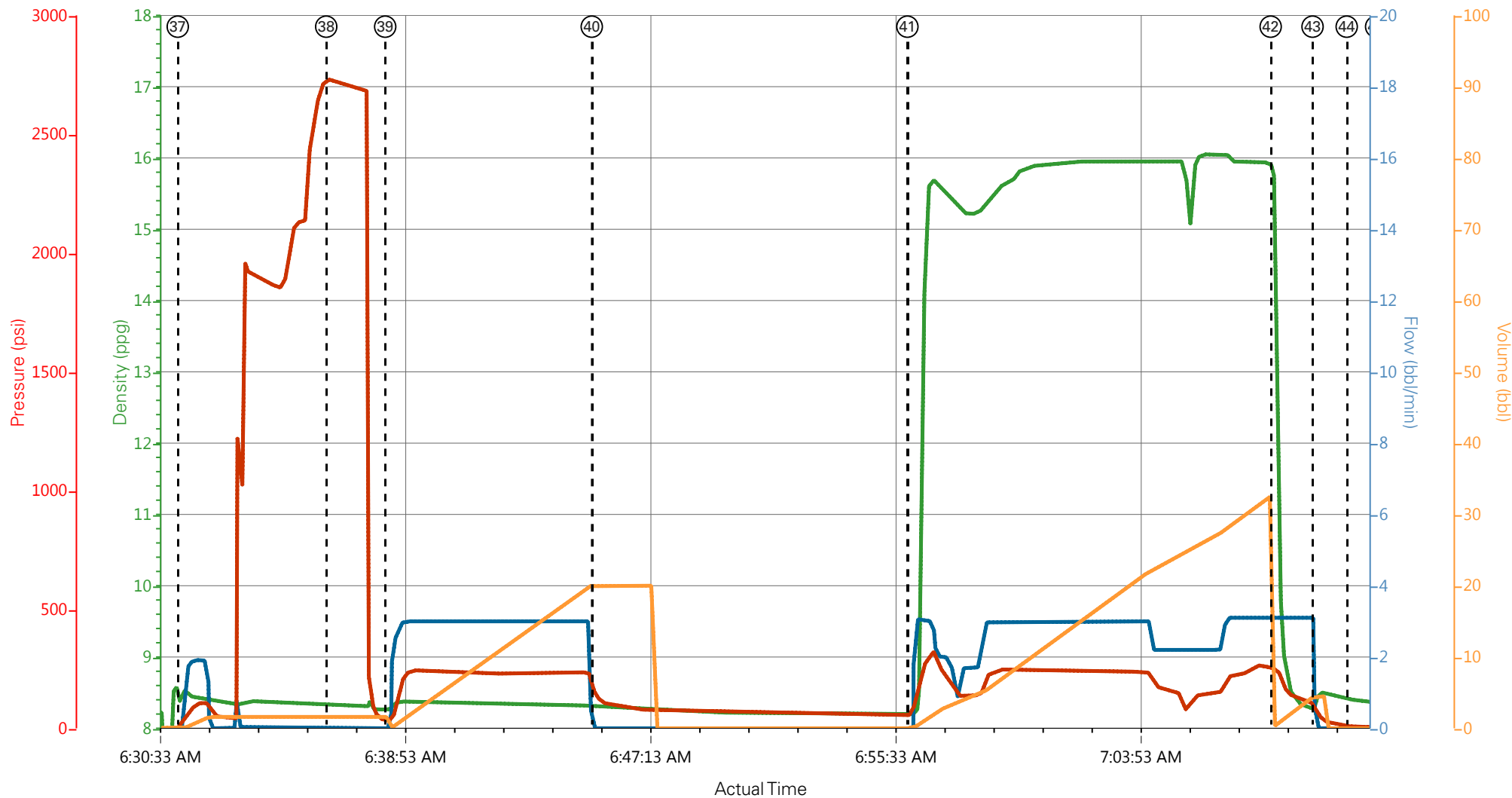
Sales Order # : 903932530

12403002 E8 : S.BLOSSOM/A.BRENNECKE

TERRA - CHEVRON TR 334-27-597 - PTA PLUG 2



TERRA - CHEVRON TR 334-27-597 - PTA PLUG 3



DH Density (ppg) -0.27 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 0 Pump Stg Tot (bbl) 97.2

- | | | | | |
|---|---|-------------------------------|-----------------------------------|---------------------------------------|
| ① Call Out n/a;n/a;n/a;n/a | ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑪ Prime Pumps 8.51;0.1;31;0 | ⑯ Pump Spacer 2 14.11;3;170;0.1 | 21 Other -0.1;0;3;0 |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑦ Rig-Up Completed 0.07;0;2;0 | ⑫ Test Lines 8.57;0;2485;1.3 | ⑰ Pump Spacer 2 10.18;2.2;63;0.05 | 22 Pre-Job Safety Meeting 8.37;0;13;0 |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑧ Other 0.06;0;0;0 | ⑬ Pump Spacer 1 8.49;1.7;18;0 | ⑱ Shutdown 8.74;0;12;0.4 | 23 Other 8.37;0;13;0 |
| ④ Arrive at Location from Other Job or Site n/a;n/a;n/a;n/a | ⑨ Pre-Job Safety Meeting 0.06;0;3;0 | ⑭ Shutdown 12.12;0;22;38.7 | ⑲ End Job 8.83;0;3;0.4 | 24 Start Job 8.43;0;4;0 |
| ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑩ Start Job 8.49;0;0;0 | ⑮ Pump Cement 14.63;2.7;91;0 | 20 Other 8.61;0;0;0.4 | 25 Prime Pumps 8.48;0.9;30;0 |

III

HALLIBURTON | iCem® Service

Created: 2017-03-27 10:14:23, Version: 4.2.393

Edit

Customer : TERRA ENERGY PARTNERS

Job Date : 3/27/2017 10:17:13 AM

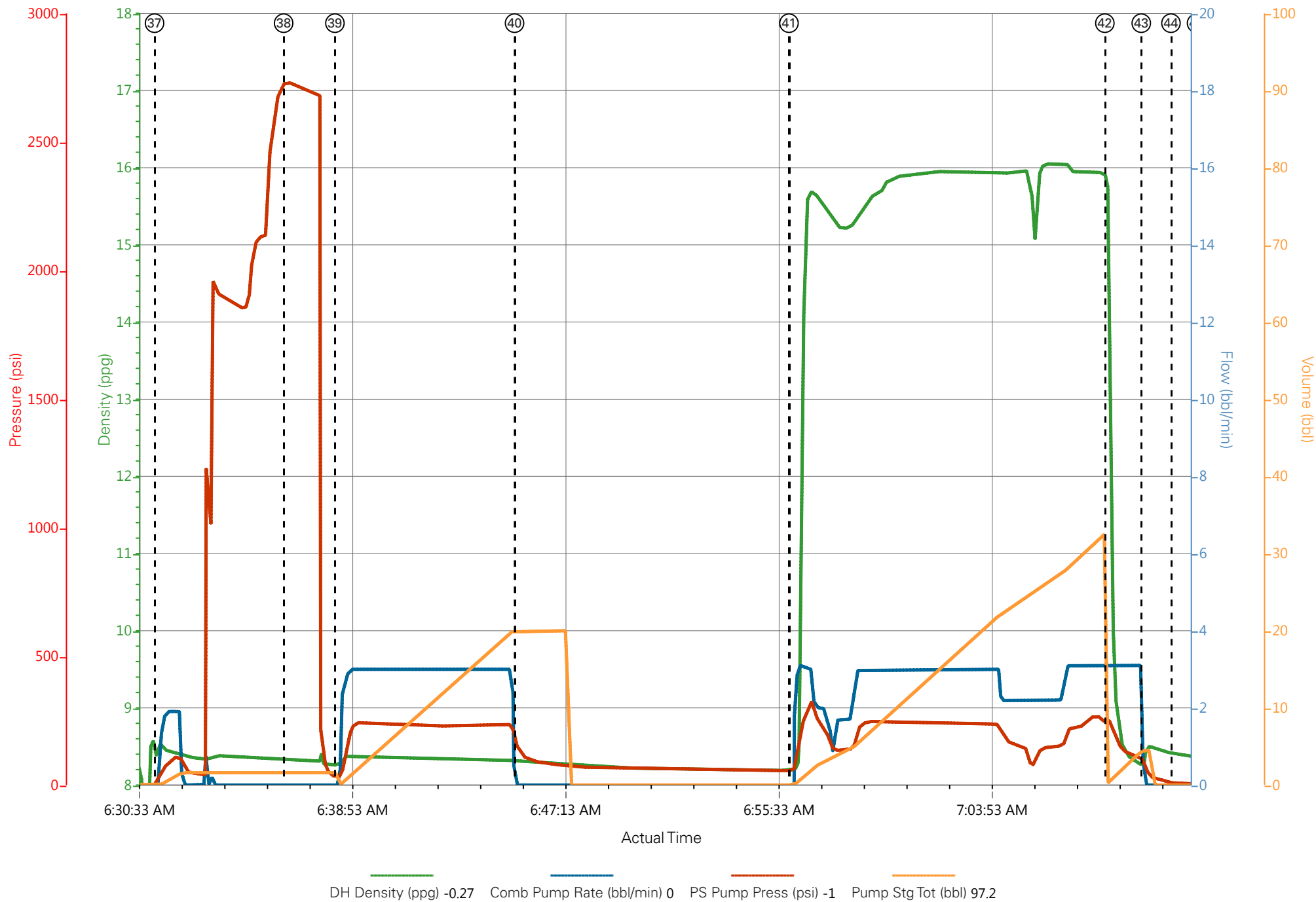
Well : CHEVRON TR 334-27-597

Representative : BODIE OAKS

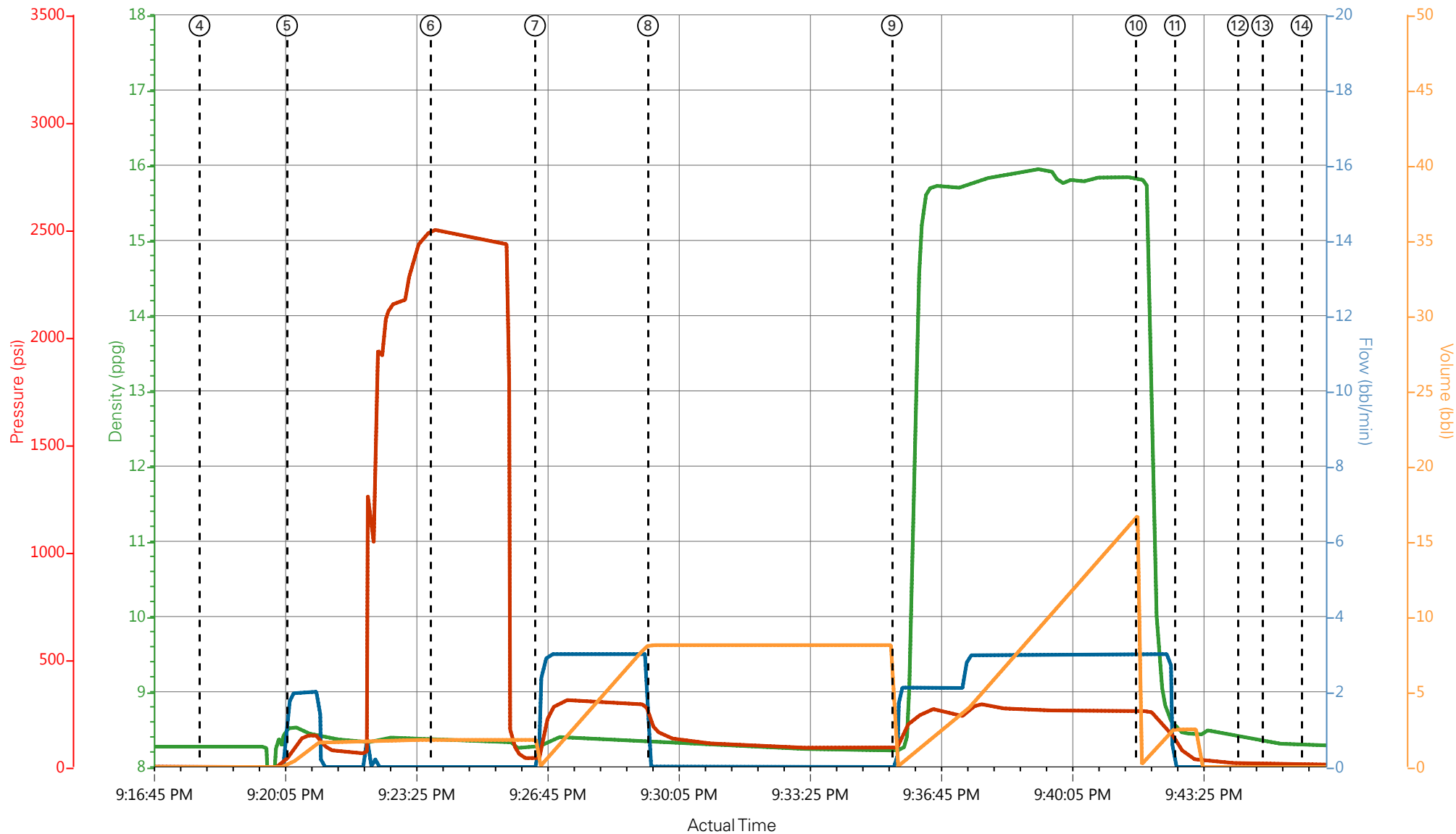
Sales Order # : 903932530

12403002 E8 : S.BLOSSOM/A.BRENNECKE

TERRA - CHEVRON TR 334-27-597 - PTA PLUG 3



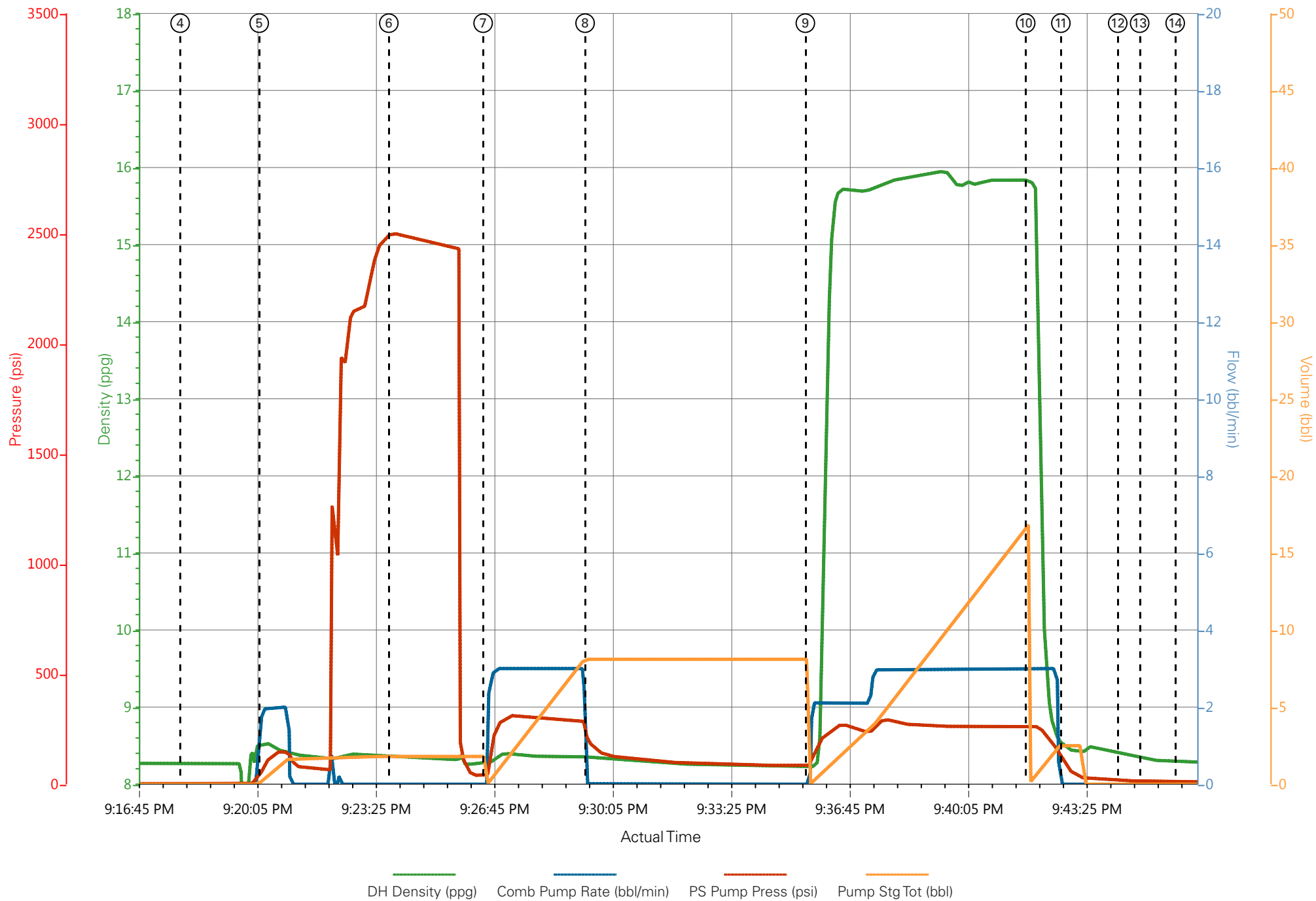
TERRA - CHEVRON TR 334-27-597 - PTA PLUG 4



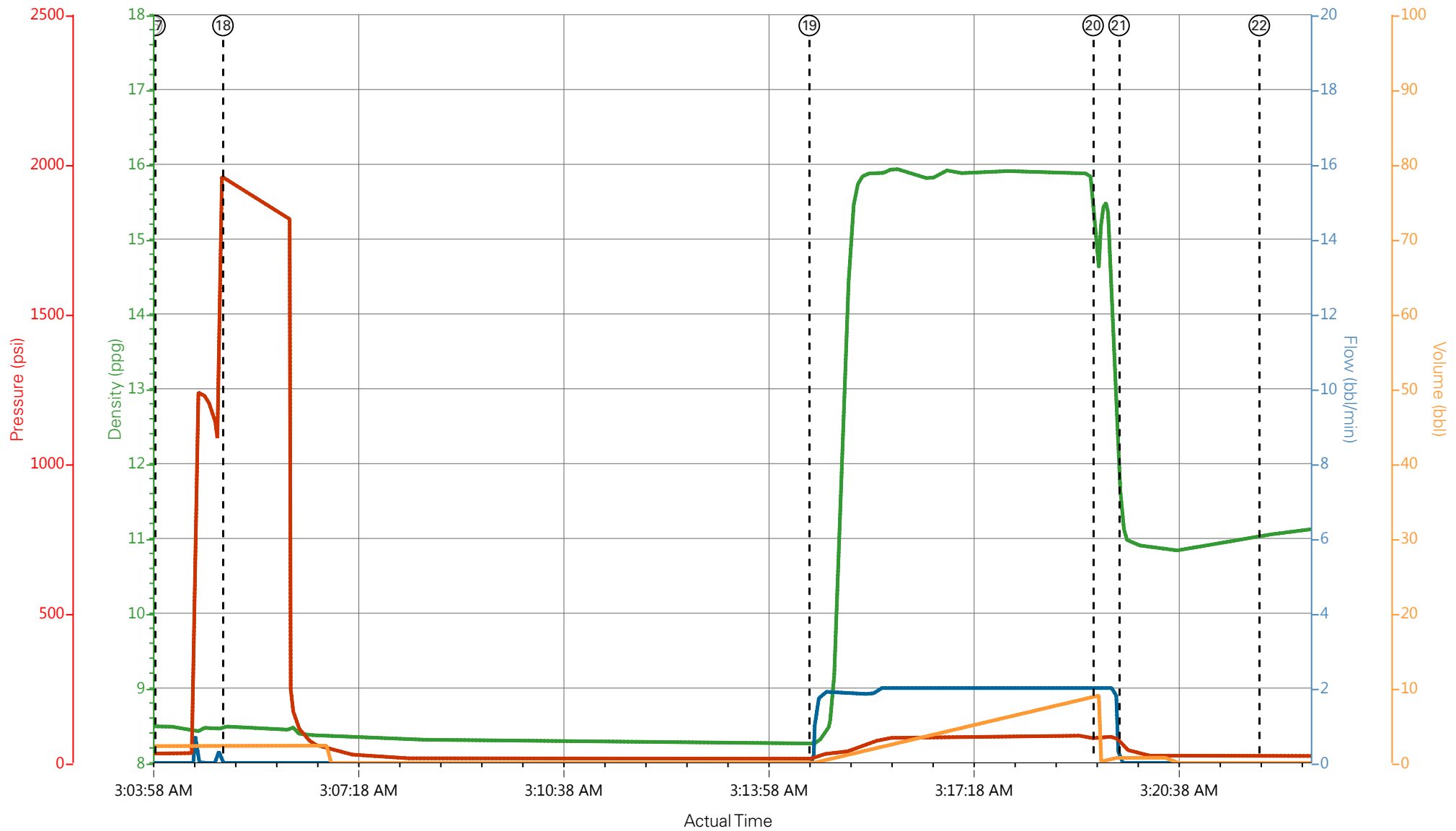
— DH Density (ppg)
 — Comb Pump Rate (bbl/min)
 — PS Pump Press (psi)
 — Pump Stg Tot (bbl)

- | | | | | |
|--------------------------------------|-------------------------------|-----------------------------|-------------------------------|---------------------|
| ① Other -0.26;0;1;97.2 | ④ Start Job 8.27;0;3;0 | ⑦ Pump Spacer 1 8.28;0;37;0 | ⑩ Pump Spacer 2 15.81;3;260;0 | ⑬ Other 8.34;0;14;0 |
| ② Start Job -0.26;0;2;97.2 | ⑤ Prime Pumps 8.51;1.9;71;0.2 | ⑧ Shutdown 8.35;0;202;8.1 | ⑪ Shutdown 8.5;0;106;2.5 | ⑭ Other 8.29;0;10;0 |
| ③ Pre-Job Safety Meeting -0.26;0;1;0 | ⑥ Test Lines 8.36;0;2499;1.8 | ⑨ Pump Cement 8.22;0;84;0 | ⑫ End Job 8.42;0;17;0 | |

TERRA - CHEVRON TR 334-27-597 - PTA PLUG 4



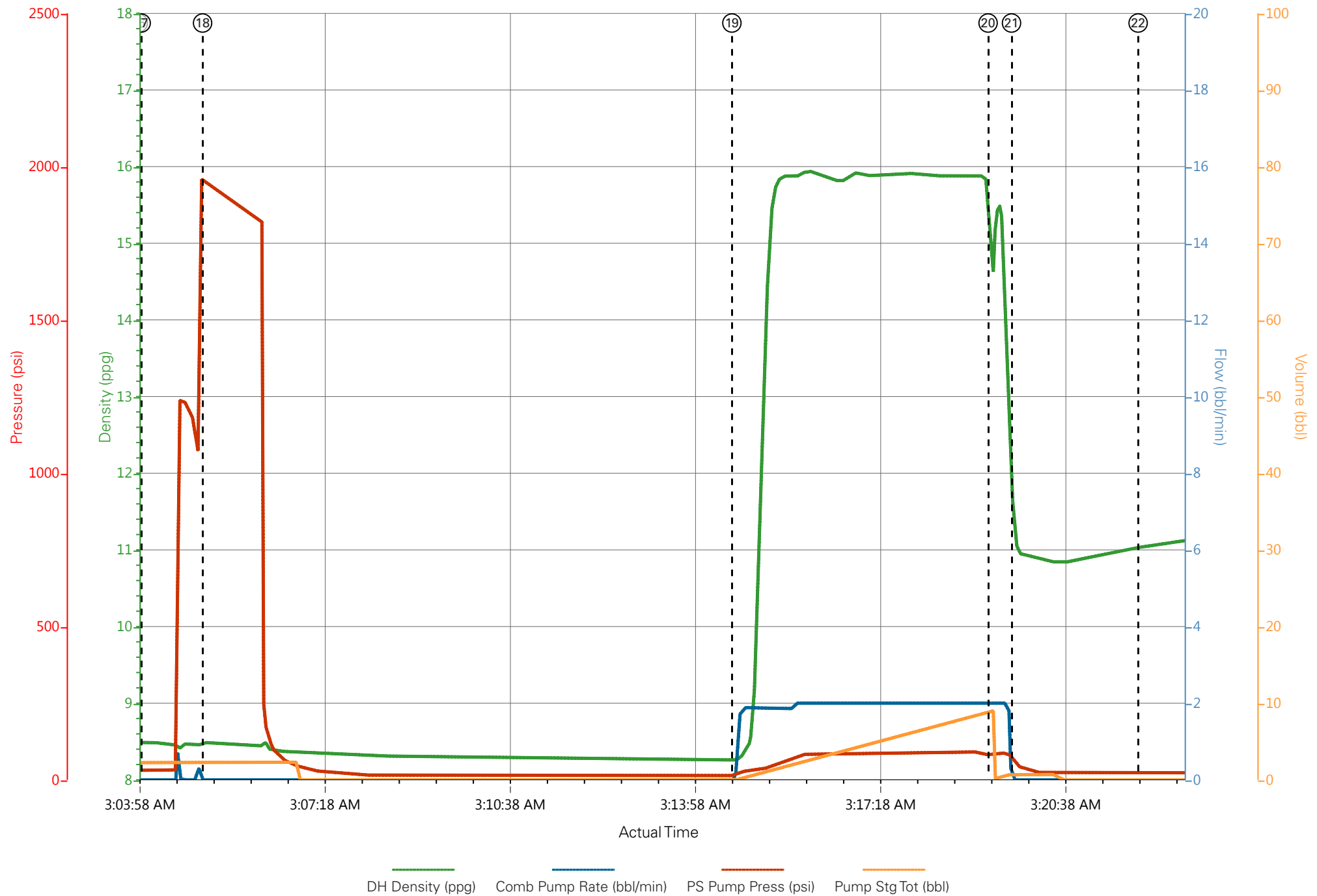
TERRA - CHEVRON TR 334-27-597 - PTA SURFACE PLUG



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

① Other -0.26;0;1;97.2	③ Pre-Job Safety Meeting -0.26;0;1;0	⑤ Prime Pumps 8.51;1.9;71;0.2	⑦ Pump Spacer 1 8.28;0;38;0	⑨ Pump Cement 8.22;0;84;0	⑪ Shutdown 8.5;0;106;2.5	⑬ Other
② Start Job -0.26;0;2;97.2	④ Start Job 8.27;0;3;0	⑥ Test Lines 8.36;0;2499;1.8	⑧ Shutdown 8.35;0;202;8.1	⑩ Pump Spacer 2 15.82;3;260;16.8	⑫ End Job 8.42;0;17;0	⑭ Other

TERRA - CHEVRON TR 334-27-597 - PTA SURFACE PLUG



Job Information

Request/Slurry	2376628/1	Rig Name	H&P 318	Date	26/MAR/2017
Submitted By	Patrick Ealey	Job Type	Plug to Abandon	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	TR 334-27-597

Well Information

Casing/Liner Size	4.5 in	Depth MD	4500 ft	BHST	69°C / 157°F
Hole Size	8.75 in	Depth TVD	4500 ft	BHCT	56°C / 132°F
Pressure					

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density
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Cement Information - Lead Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties	
		PlugCem #1				Slurry Density	15.8 lbm/gal
						Slurry Yield	1.149 ft3/sack
						Water Requirement	4.957 gal/sack
						Total Mix Fluid	5.007 gal/sack
						Water Source	Fresh Water
						Water Chloride	

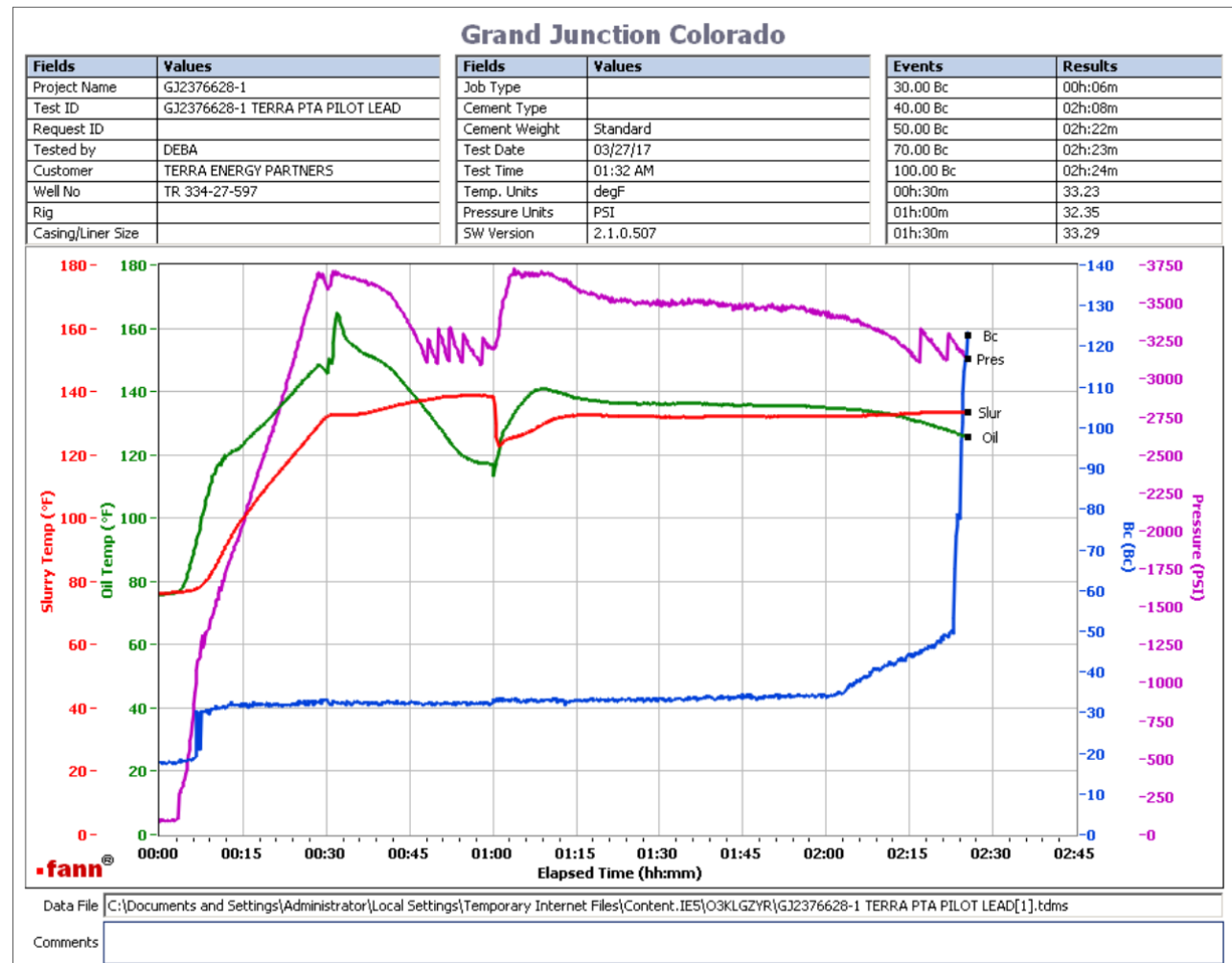
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Thickening Time - ON-OFF-ON

26/MAR/2017

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
132	3400	28	0:06	2:23	2:24	17	30	30	33



deflected from 32Bc to 33 Bc when the stirring was resumed.

These are draft results and have not been approved for final use.

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HALLIBURTON

Rockies, Grand Junction

Lab Results- Lead

Job Information

Request/Slurry	2376629/1	Rig Name	H&P 318	Date	26/MAR/2017
Submitted By	Patrick Ealey	Job Type	Plug to Abandon	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	TR 334-27-597

Well Information

Casing/Liner Size	4.5 in	Depth MD	2799 ft	BHST	53°C / 128°F
Hole Size	8.75 in	Depth TVD	2799 ft	BHCT	43°C / 109°F
Pressure					

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density	9 lbm/gal
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Cement Information - Lead Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties	
		PlugCem #2				Slurry Density	15.8 lbm/gal
						Slurry Yield	1.148 ft3/sack
						Water Requirement	4.98 gal/sack
						Total Mix Fluid	5 gal/sack
						Water Source	Fresh Water
						Water Chloride	

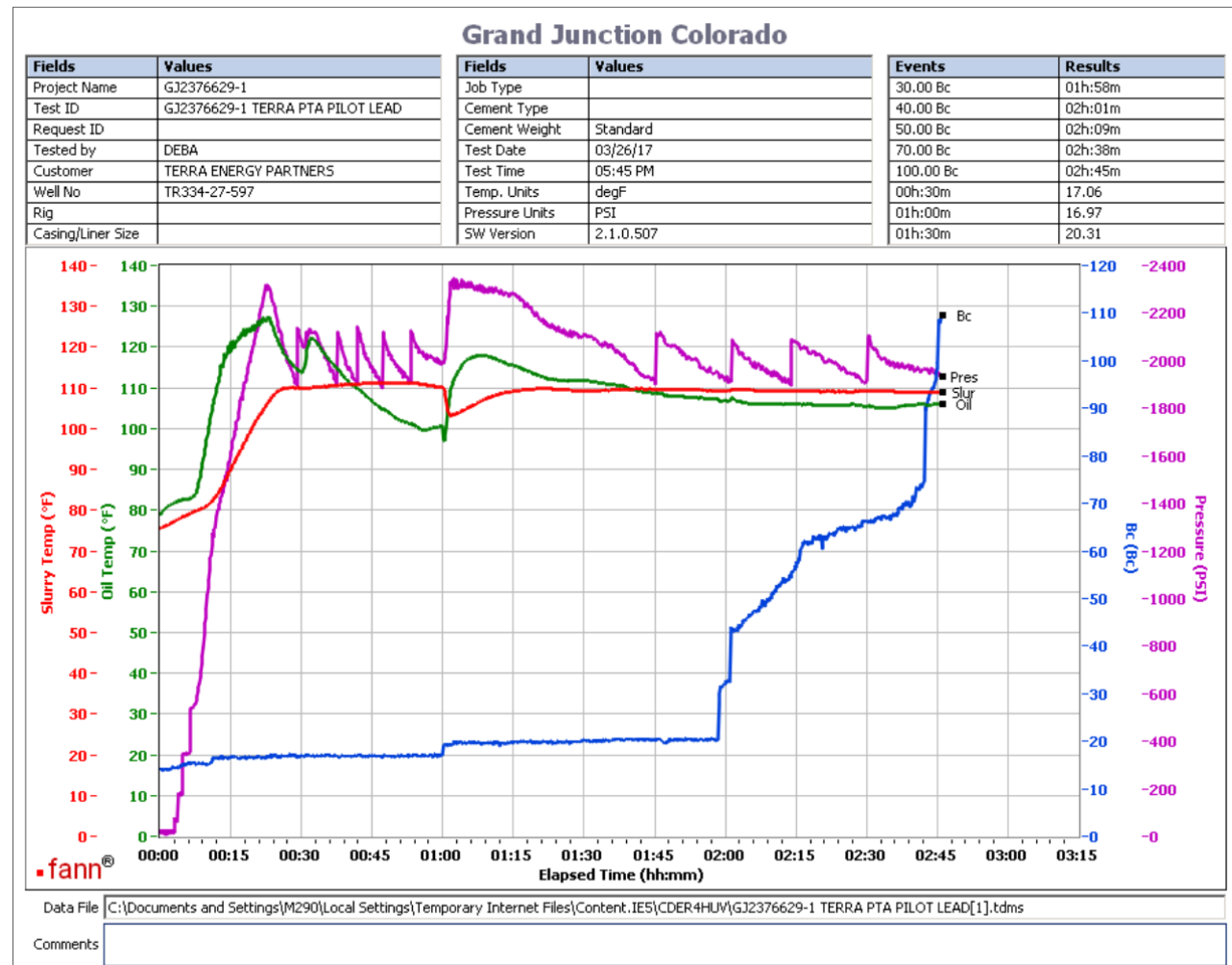
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Thickening Time - ON-OFF-ON

26/MAR/2017

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
109	2120	22	1:58	2:09	2:38	2:45	14	30	30	19



deflected from 17Bc to 19Bc when the stirring was resumed.

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