



WELL STIMULATION REPORT

D90 Energy LLC

DAMFINO 0680 7-6H31

05-057-06620-00

December 23, 2022

Engineering Executive Summary

On Friday, November 04, 2022 the stimulation of treatment(s) was performed in the Niobrara formation on the DAMFINO 0680 7-6H31 well in JACKSON county, COLORADO.

The proposed treatment(s) consisted of:

38,000	gallons of	15% HCl
14,657,691	gallons of	FR Water (FightR EC-1)
1,973,150	gallons of	Hybor G 25#
0	gallons of	Treated Water
8,769,678	pounds of	30/50 Premium White

The actual treatment(s) consisted of:

37,704	gallons of	15% HCl
12,971,923	gallons of	FR Water (FightR EC-1)
2,020,808	gallons of	Hybor G 25#
427,854	gallons of	Treated Water
7,507,340	pounds of	30/50 Premium White

22 of 38 treatment(s) were fully completed. 0 treatment(s) were skipped, and 16 treatment(s) were screened out or otherwise cut short of design.

The well was first opened Friday, November 04, 2022 at 04:03 with an opening pressure of 2,664.0 psi.

The total amount of proppant pumped was 7,507,340.0 lbm with an average concentration of 0.54 ppg and maximum concentration of 4.0 ppg. Treating pressure averaged 5949.37 psi and rate averaged 79.62 bpm.

The operation came offline at 17:48 and the well was shut in Monday, November 21, 2022 at 17:49 with a final shut-in pressure of 2,469.13 psi. A more detailed description of the actual treatment can be found further down in this report.

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.

Regards,

Matthew McConnell

Tanner Green

Crew Service Leader

Crew Lead Engineer

WELL COMPLETION DATA

Treatment Interval	Perforation Top (ft)	Perforation Bottom (ft)	Plug Depth (ft)	Vertical Depth (ft)	Perforation Count	Cluster Count	Cluster Spacing	Perforation Phasing	SalesOrder Number
1	14885	15072	15084	7011	42	7	31	60	908204902
2	14674	14861	14873	7011	42	7	31	60	908204902
3	14463	14650	14662	7000	42	7	31	60	908204902
4	14252	14439	14451	6989	42	7	31	60	908204902
5	14041	14228	14240	6980	42	7	31	60	908204902
6	13830	14017	14029	6974	42	7	31	60	908204902
7	13619	13806	13818	6967	54	7	31	60	908204902
8	13408	13595	13607	6961	54	7	31	60	908204902
9	13197	13384	13396	6956	54	7	31	60	908204902
10	12986	13173	13185	6952	54	7	31	60	908204902
11	12775	12962	12974	6949	54	7	31	60	908204902
12	12564	12751	12763	6949	54	7	31	60	908204902
13	12353	12540	12552	6953	54	7	31	60	908204902
14	12142	12329	12341	6957	54	7	31	60	908204902
15	11931	12118	12130	6956	54	7	31	60	908204902
16	11720	11907	11919	6953	54	7	31	60	908204902
17	11509	11696	11708	6946	54	7	31	60	908204902
18	11298	11485	11497	6938	54	7	31	60	908204902
19	11087	11274	11286	6926	54	7	31	60	908204902
20	10876	11063	11075	6914	54	7	31	60	908204902
21	10665	10852	10864	6909	54	7	31	60	908204902
22	10454	10641	10653	6902	54	7	31	60	908204902

WELL COMPLETION DATA

Treatment Interval	Perforation Top (ft)	Perforation Bottom (ft)	Plug Depth (ft)	Vertical Depth (ft)	Perforation Count	Cluster Count	Cluster Spacing	Perforation Phasing	SalesOrder Number
23	10243	10430	10442	6897	54	7	31	60	908204902
24	10032	10219	10231	6887	54	7	31	60	908204902
25	9821	10008	10020	6882	54	7	31	60	908204902
26	9610	9797	9809	6874	54	7	31	60	908204902
27	9399	9586	9598	6855	54	7	31	60	908204902
28	9188	9375	9387	6831	54	7	31	60	908204902
29	8977	9164	9176	6822	54	7	31	60	908204902
30	8766	8953	8965	6816	54	7	31	60	908204902
31	8555	8742	8754	6813	54	7	31	60	908204902
32	8344	8531	8543	6808	54	7	31	60	908204902
33	8133	8320	8332	6799	54	7	31	60	908204902
34	7922	8109	8121	6792	54	7	31	60	908204902
35	7711	7898	7910	6784	54	7	31	60	908204902
36	7500	7687	7699	6773	54	7	31	60	908204902
37	7289	7476	7488	6769	54	7	31	60	908204902
38	7078	7265	7277	6770	54	7	31	60	908204902

FLUID SYSTEM SUMMARY

Treatment Interval	15% HCl		FR Water (FightR EC-1)		Hybor G 25#		Treated Water		Total Fluid		Slurry Volume
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Pumped (gal)
1	1000	992	389365	175083	51925	0	0	55440	442290	231515	232907.64
2	1000	992	389168	226545	51925	0	0	18732	442093	246269	251226.36
3	1000	992	388972	469757	51925	70303	0	17430	441897	558482	570041.22
4	1000	992	388775	428353	51925	0	0	16212	441700	445557	454684.02
5	1000	992	388578	267272	51925	0	0	16170	441503	284434	289658.88
6	1000	992	388382	429922	51925	0	0	18144	441307	449058	455492.94
7	1000	992	388185	444650	51925	0	0	16212	441110	461854	471082.5
8	1000	992	387989	360922	51925	0	0	15792	440914	377706	380252.04
9	1000	992	387792	387549	51925	0	0	15540	440717	404081	408792.72
10	1000	992	387596	318430	51925	0	0	16506	440521	335928	344304.24
11	1000	992	387399	374897	51925	0	0	15456	440324	391345	396370.38
12	1000	992	387203	445712	51925	0	0	13440	440128	460144	470626.38
13	1000	992	387006	377712	51925	52671	0	12768	439931	444143	449300.46
14	1000	992	386810	585992	51925	0	0	10122	439735	597106	610305.78
15	1000	992	386613	447660	51925	0	0	11928	439538	460580	471850.26
16	1000	992	386417	483249	51925	177355	0	11970	439342	673566	684769.68
17	1000	992	386220	450310	51925	124403	0	11592	439145	587297	598797.36
18	1000	992	386024	348446	51925	73741	0	11424	438949	434603	445813.2
19	1000	992	385827	265293	51925	75113	0	9660	438752	351058	359521.68
20	1000	992	385630	236227	51925	103065	0	9156	438555	349440	358084.02
21	1000	992	385434	319833	51925	85224	0	8442	438359	414491	425542.32
22	1000	992	385237	253144	51925	79919	0	0	438162	334055	343401.24

FLUID SYSTEM SUMMARY

Treatment Interval	15% HCl		FR Water (FightR EC-1)		Hybor G 25#		Treated Water		Total Fluid		Slurry Volume
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Pumped (gal)
23	1000	992	385041	190328	51925	98558	0	8526	437966	298404	307676.46
24	1000	992	384844	187980	51925	84659	0	7938	437769	281569	289984.38
25	1000	992	384648	295114	51925	82084	0	16632	437573	394822	404783.82
26	1000	992	384451	301347	51925	77959	0	7812	437376	388110	398381.76
27	1000	992	384255	313612	51925	75054	0	6468	437180	396126	406094.22
28	1000	992	384058	305721	51925	78964	0	8400	436983	394077	401579.22
29	1000	992	383862	256941	51925	111638	0	8400	436787	377971	387904.02
30	1000	992	383665	378823	51925	0	0	5460	436590	385275	395239.32
31	1000	992	383469	360212	51925	62968	0	5628	436394	429800	440153.7
32	1000	992	383272	328138	51925	76667	0	4410	436197	410207	420138.18
33	1000	992	383075	368283	51925	76475	0	3696	436000	449446	460521.6
34	1000	992	382879	324037	51925	71447	0	3696	435804	400172	410634
35	1000	992	382682	339006	51925	68842	0	2856	435607	411696	421989.54
36	1000	992	382486	316959	51925	76803	0	2730	435411	397484	408379.86
37	1000	1000	382289	296187	51925	70908	0	1554	435214	369649	379412.04
38	1000	992	382093	312277	51925	65988	0	1512	435018	380769	391260.66
Total	38000	37704	14657691	12971923	1973150	2020808	0	427854	16668841	15458289	15796958.1

PROPPANT SUMMARY

Treatment Interval	30/50 Premium White		Total	
	Proposed (lbm)	Pumped (lbm)	Proposed (lbm)	Pumped (lbm)
1	230781	47000	230781	47000
2	230781	109500	230781	109500
3	230781	239280	230781	239280
4	230781	185500	230781	185500
5	230781	118220	230781	118220
6	230781	132300	230781	132300
7	230781	212620	230781	212620
8	230781	54220	230781	54220
9	230781	108580	230781	108580
10	230781	191260	230781	191260
11	230781	106700	230781	106700
12	230781	230800	230781	230800
13	230781	124380	230781	124380
14	230781	227840	230781	227840
15	230781	246120	230781	246120
16	230781	234280	230781	234280
17	230781	247820	230781	247820
18	230781	238600	230781	238600
19	230781	187520	230781	187520
20	230781	191620	230781	191620
21	230781	250180	230781	250180
22	230781	208000	230781	208000

PROPPANT SUMMARY

Treatment Interval	30/50 Premium White		Total	
	Proposed (lbm)	Pumped (lbm)	Proposed (lbm)	Pumped (lbm)
23	230781	234420	230781	234420
24	230781	199120	230781	199120
25	230781	217940	230781	217940
26	230781	230660	230781	230660
27	230781	226700	230781	226700
28	230781	177680	230781	177680
29	230781	217700	230781	217700
30	230781	231300	230781	231300
31	230781	234840	230781	234840
32	230781	226940	230781	226940
33	230781	230660	230781	230660
34	230781	230160	230781	230160
35	230781	237720	230781	237720
36	230781	246320	230781	246320
37	230781	227520	230781	227520
38	230781	245320	230781	245320
Total	8769678	7507340	8769678	7507340

ADDITIVE SUMMARY

Treatment Interval	28% HCl		Bellacide 300W		CL-31		CL-43		DCA-32019M		FightR EC-1		Legend LD-6450	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
1	504	500	110.32	71	15.58	15	51.92	42	220.64	86	389.36	132	220.64	100
2	504	500	110.27	64	15.58	16	51.92	54	220.55	110	389.17	143	220.55	59
3	504	500	110.22	142	15.58	19	51.92	63	220.45	293	388.97	465	220.45	270
4	504	500	110.18	114	15.58	11	51.92	38	220.35	212	388.78	361	220.35	227
5	504	500	110.13	73	15.58	18	51.92	61	220.25	129	388.58	176	220.25	127
6	504	500	110.08	113	15.58	10	51.92	32	220.15	208	388.38	282	220.15	212
7	504	500	110.03	118	15.58	18	51.92	61	220.06	219	388.18	367	220.06	198
8	504	500	109.98	8	15.58	12	51.92	39	219.96	177	387.99	245	219.96	169
9	504	500	109.93	103	15.58	16	51.92	54	219.86	223	387.79	295	219.86	194
10	504	500	109.88	86	15.58	26	51.92	87	219.76	162	387.6	188	219.76	160
11	504	500	109.83	100	15.58	33	51.92	112	219.66	187	387.4	224	219.66	191
12	504	500	109.78	114	15.58	25	51.92	73	219.56	215	387.2	294	219.56	227
13	504	500	109.73	106	15.58	15	51.92	62	219.47	212	387.01	285	219.47	212
14	504	500	109.68	145	15.58	34	51.92	233	219.37	280	386.81	372	219.37	283
15	504	500	109.63	113	15.58	28	51.92	94	219.27	221	386.61	331	219.27	226
16	504	500	109.59	162	15.58	68	51.92	314	219.17	319	386.42	478	219.17	319
17	504	500	109.54	140	15.58	38	51.92	125	219.07	279	386.22	419	219.07	282
18	504	500	109.49	103	15.58	21	51.92	54	218.97	207	386.02	310	218.97	246
19	504	500	109.44	85	15.58	21	51.92	70	218.88	168	385.83	250	218.88	240
20	504	500	109.39	83	15.58	31	51.92	102	218.78	166	385.63	249	218.78	232
21	504	500	109.34	100	15.58	25	51.92	83	218.68	199	385.43	299	218.68	212
22	504	500	109.29	81	15.58	24	51.92	82	218.58	162	385.24	243	218.58	168

ADDITIVE SUMMARY

Treatment Interval	28% HCl		Bellacide 300W		CL-31		CL-43		DCA-32019M		FightR EC-1		Legend LD-6450	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
23	504	500	109.24	70	15.58	28	51.92	95	218.48	140	385.04	210	218.48	193
24	504	500	109.19	62	15.58	23	51.92	78	218.38	132	384.84	215	218.38	195
25	504	500	109.14	94	15.58	24	51.92	81	218.29	185	384.65	277	218.29	194
26	504	500	109.09	95	15.58	23	51.92	92	218.19	185	384.45	278	218.19	158
27	504	500	109.04	97	15.58	23	51.92	76	218.09	191	384.26	318	218.09	193
28	504	500	109	96	15.58	24	51.92	81	217.99	189	384.06	318	217.99	192
29	504	500	108.95	92	15.58	33	51.92	123	217.89	181	383.86	271	217.89	186
30	504	500	108.9	1	15.58	27	51.92	92	217.8	179	383.66	268	217.8	183
31	504	500	108.85	105	15.58	18	51.92	59	217.7	208	383.47	311	217.7	211
32	504	500	108.8	101	15.58	19	51.92	65	217.6	200	383.27	300	217.6	202
33	504	500	108.75	111	15.58	23	51.92	24	217.5	219	383.08	317	217.5	222
34	504	500	108.7	98	15.58	21	51.92	27	217.4	195	382.88	292	217.4	197
35	504	500	108.65	100	15.58	19	51.92	62	217.3	200	382.68	302	217.3	203
36	504	500	108.6	101	15.58	22	51.92	77	217.21	198	382.49	293	217.21	196
37	504	500	108.55	90	15.58	21	51.92	69	217.11	181	382.29	271	217.11	182
38	504	500	108.5	93	15.58	21	51.92	68	217.01	189	382.09	249	217.01	187
Total	19152	19000	4157.7	3630	592.04	893	1972.96	3104	8315.43	7406	14657.69	10898	8315.43	7648

ADDITIVE SUMMARY

Treatment Interval	MO-67		OptiKleen-WF		Vicon NF		WG-35	
	Proposed (gal)	Pumped (gal)	Proposed (lb)	Pumped (lb)	Proposed (gal)	Pumped (gal)	Proposed (lb)	Pumped (lb)
1	20.77	17	389.36	110	51.92	51	1298.12	1144
2	20.77	22	389.17	165	51.92	54	1298.12	1382
3	20.77	28	388.97	455	51.92	63	1298.12	1699
4	20.77	16	388.78	370	51.92	41	1298.12	759
5	20.77	25	388.58	165	51.92	63	1298.12	1474
6	20.77	17	388.38	330	51.92	85	1298.12	1923
7	20.77	25	388.18	330	51.92	70	1298.12	1528
8	20.77	16	387.99	220	51.92	49	1298.12	1001
9	20.77	23	387.79	275	51.92	57	1298.12	1798
10	20.77	45	387.6	220	51.92	118	1298.12	2192
11	20.77	44	387.4	220	51.92	118	1298.12	2685
12	20.77	36	387.2	330	51.92	100	1298.12	2442
13	20.77	19	387.01	330	51.92	52	1298.12	1318
14	20.77	22	386.81	385	51.92	159	1298.12	4715
15	20.77	41	386.61	330	51.92	106	1298.12	24
16	20.77	85	386.42	495	51.92	245	1298.12	6376
17	20.77	110	386.22	330	51.92	136	1298.12	2027
18	20.77	30	386.02	330	51.92	75	1298.12	3502
19	20.77	22	385.83	275	51.92	54	1298.12	1426
20	20.77	80	385.63	275	51.92	200	1298.12	2561
21	20.77	34	385.43	275	51.92	84	1298.12	1938
22	20.77	32	385.24	275	51.92	80	1298.12	1813

ADDITIVE SUMMARY

Treatment Interval	MO-67		OptiKleen-WF		Vicon NF		WG-35	
	Proposed (gal)	Pumped (gal)	Proposed (lb)	Pumped (lb)	Proposed (gal)	Pumped (gal)	Proposed (lb)	Pumped (lb)
23	20.77	40	385.04	220	51.92	100	1298.12	1770
24	20.77	35	384.84	220	51.92	82	1298.12	1300
25	20.77	33	384.65	275	51.92	83	1298.12	1897
26	20.77	32	384.45	330	51.92	76	1298.12	1746
27	20.77	31	384.26	330	51.92	77	1298.12	1745
28	20.77	36	384.06	330	51.92	92	1298.12	1477
29	20.77	40	383.86	275	51.92	116	1298.12	2058
30	20.77	36	383.66	275	51.92	91	1298.12	1745
31	20.77	27	383.47	330	51.92	67	1298.12	1215
32	20.77	32	383.27	330	51.92	78	1298.12	1430
33	20.77	31	383.08	330	51.92	80	1298.12	1794
34	20.77	29	382.88	275	51.92	72	1298.12	1674
35	20.77	29	382.68	330	51.92	65	1298.12	1447
36	20.77	39	382.49	330	51.92	97	1298.12	1687
37	20.77	28	382.29	275	51.92	74	1298.12	1651
38	20.77	26	382.09	275	51.92	68	1298.12	1455
Total	789.26	1313	14657.69	11220	1972.96	3378	49328.56	71818

AVG / MAX TECHNICAL DATA

Treatment Interval	Treatment Status	Average Pressure (psi)	Average Slurry Rate (bpm)	Average Proppant Conc (ppg)	Maximum Pressure (psi)	Maximum Slurry Rate (bpm)	Maximum Proppant Conc (ppg)
1	Screened Out	7199	61.4	0.15	9715	79.1	0.82
2	Cut	6306	60.6	0.58	8116	76.46	1.42
3	Completed	6440	68.2	0.48	7506	80.16	2.5
4	Completed	6287	65	0.56	7938	81.64	0.88
5	Cut	6235	67.5	0.55	8258	80.44	1.1
6	Cut	6351	75.52	0.56	8070	81.92	2.5
7	Cut	6290	72.4	0.54	8119	80.58	1.5
8	Cut	6792	70	0.2	8327	82.37	2.5
9	Cut	7337	84.5	0.54	9428	92.48	2.5
10	Cut	7053	85.1	0.49	9072	91.95	2.5
11	Cut	7532	74.8	0.37	9016	90.65	1.04
12	Completed	6550	82	0.65	8005	91	2.01
13	Cut	6437	82.4	0.54	8203	91.35	2.5
14	Completed	5424	75.8	0.44	9105	91.67	2.5
15	Completed	5495	83.4	0.64	7201	86.14	2.5
16	Completed	5857	82	0.38	8481	85.92	0.75
17	Completed	5946	81.1	0.5	9036	83.31	2.5
18	Completed	6250	86.3	0.61	6870	87.58	2.5
19	Cut	6281	72.7	0.49	8215	81.72	2.5
20	Cut	6077	79.8	0.5	8560	84.73	2.5
21	Completed	6235	88	0.55	8767	90.47	2.5
22	Cut	6455	89.6	0.54	7843	90.53	2.5

AVG / MAX TECHNICAL DATA

Treatment Interval	Treatment Status	Average Pressure (psi)	Average Slurry Rate (bpm)	Average Proppant Conc (ppg)	Maximum Pressure (psi)	Maximum Slurry Rate (bpm)	Maximum Proppant Conc (ppg)
23	Completed	6652	81	0.59	8773	89.31	2.5
24	Cut	6044	78.6	0.55	7728	86.37	2.5
25	Cut	5839	82.1	0.63	7875	84.27	2.5
26	Completed	5704	89	0.52	7566	90.54	2.5
27	Completed	6042	84.52	0.44	7163	91.23	2.5
28	Cut	6278	80.09	0.66	7368	87.39	2.5
29	Completed	5956	86.6	0.71	8050	89.78	2.5
30	Completed	5353	77.74	0.5	6497	81.71	2.5
31	Completed	4846	78.85	0.59	6766	81.63	2.5
32	Completed	4631	80	0.6	7467	81.85	2.5
33	Completed	5284	83.2	0.67	6120	90.57	4
34	Completed	5286	87	0.63	7554	90.31	2.5
35	Completed	4471	83.4	0.52	5826	85.96	2.5
36	Completed	4451	89.2	0.7	6427	90.9	2.5
37	Completed	4291	89.9	0.63	6922	91.4	2.5
38	Completed	4119	86.3	0.68	5399	93.52	2.5

BREAKDOWN TECHNICAL DATA

Treatment Interval	Ball Seat Volume (bbl)	Ball Seat Pressure (psi)	Ball Seat Rate (bpm)	Formation Break Pressure (psi)	Formation Break Rate (bpm)
1	0	0	0	0	0
2	346.08	4654	15.13	4692	15.14
3	314.91	3783	12.35	4123	12.34
4	331.92	3953	15.21	4012	15.23
5	336.09	3476	15.14	3493	15.19
6	295.83	3811	14.89	4061	14.87
7	297.46	4374	15.22	5180	15.15
8	290.31	4485	15.22	5047	15.19
9	283.27	4792	14.7	5291	14.65
10	280.51	5073	15.25	5704	21.15
11	274.22	4871	14.59	5481	14.55
12	271.22	4002	15.08	4099	15.12
13	274.14	3967	15.24	4247	15.22
14	143.42	2998	14.95	3013	14.98
15	254.34	3121	14.45	3355	14.42
16	251.62	3163	15.25	3380	15.24
17	249.93	3156	15.12	3485	15.08
18	291.96	3104	14.81	3102	14.84
19	229.21	3813	15.27	5411	15.17
20	222.42	4719	15.26	5297	15.28
21	231.58	4105	15.26	4698	15.11
22	223.16	3583	15.18	4300	15.05

BREAKDOWN TECHNICAL DATA

Treatment Interval	Ball Seat Volume (bbl)	Ball Seat Pressure (psi)	Ball Seat Rate (bpm)	Formation Break Pressure (psi)	Formation Break Rate (bpm)
23	222.32	4317	15.31	5125	15.02
24	217.07	3059	15.19	3061	15.22
25	201.3	4795	14.71	4854	15.11
26	213.12	4281	15.23	4869	15.23
27	209.94	4103	14.93	4648	14.91
28	237.1	4501	15.1	4815	29.59
29	187.99	4191	14.92	4466	14.99
30	212.2	4351	15.48	4887	15.48
31	188.42	3228	15.04	5734	61.13
32	183.61	3099	15.07	3609	15.06
33	176.47	2802	14.11	3771	14.13
34	178.78	3159	15.11	3593	16.25
35	171.15	2802	15.24	2976	15.25
36	170.07	2881	15.22	2997	15.18
37	153.83	2950	14.94	3089	14.95
38	146.2	2632	15.1	2787	15

PRESSURE TECHNICAL DATA

Treatment Interval	Open Well Pressure (psi)	Initial Shut In Pressure (psi)	Fracture Gradient (psi/ft)	Max Annulus Pressure (psi)	5 Min Pressure (psi)	10 Min Pressure (psi)	15 Min Pressure (psi)	Final Shut In Pressure (psi)
1	2664	3517	0.94	0	0	0	0	3198
2	3190	3442	0.92	0	0	0	0	3231
3	2109	3633	0.95	0	0	0	0	3374
4	2412	3948	1	0	0	0	0	3824
5	2466	3837	0.98	0	0	0	0	3645
6	2301	4046	1.01	0	0	0	0	3907
7	2849	3465	0.93	0	0	0	0	3345
8	2918	3592	0.95	0	0	0	0	3434
9	2982	4203	1.04	0	0	0	0	3646
10	3103	4162	1.03	0	0	0	0	3915
11	3406	4594	1.09	0	0	0	0	4139
12	2736	3299	0.91	0	0	0	0	3239
13	2914	3725	0.97	0	0	0	0	3613
14	1353	3277	0.9	0	0	0	0	3247
15	2275	3132	0.88	0	0	0	0	3083
16	2331	3142	0.88	0	0	0	0	3112
17	2329	3197	0.89	0	0	0	0	3085
18	2235	3294	0.91	0	0	0	0	3193
19	2463	3143	0.89	0	0	0	0	2963
20	2305	3262	0.9	0	0	0	0	3091
21	2393	3137	0.89	0	0	0	0	3046
22	2275	3124	0.89	0	0	0	0	0

PRESSURE TECHNICAL DATA

Treatment Interval	Open Well Pressure (psi)	Initial Shut In Pressure (psi)	Fracture Gradient (psi/ft)	Max Annulus Pressure (psi)	5 Min Pressure (psi)	10 Min Pressure (psi)	15 Min Pressure (psi)	Final Shut In Pressure (psi)
23	2297	2950	0.86	0	0	0	0	2796
24	2101	3121	0.89	0	0	0	0	2749
25	3064	3207	0.9	0	0	0	0	2841
26	2033	3121	0.89	0	0	0	0	2795
27	2156	3144	0.89	0	0	0	0	2662
28	1986	4280	1.06	0	0	0	0	3174
29	2168	2973	0.87	0	0	0	0	2675
30	1956	2888	0.86	0	0	0	0	2705
31	2019	2646	0.82	0	0	0	0	2492
32	1986	2658	0.82	0	0	0	0	2572
33	2048	2887	0.86	0	0	0	0	2799
34	1883	2866	0.86	0	0	0	0	2421
35	1922	2534	0.81	0	0	0	0	2464
36	2175	2580	0.81	0	0	0	0	2557
37	2160	2647	0.82	0	0	0	0	2567
38	2042	2541	0.81	0	0	0	0	2469

TREATMENT TIME TECHNICAL DATA

Treatment Interval	Start Date (YYYY-MM-DD)	Well Open Time (YYYY-MM-DD hh-mm-ss)	Start Time (YYYY-MM-DD hh-mm-ss)	End Time (YYYY-MM-DD hh-mm-ss)	Well Shut In Time (YYYY-MM-DD hh-mm-ss)	Total Pump Time (hh:mm:ss)	Down Time (hh:mm:ss)
1	2022-11-04T00:00:00	2022-11-04T04:03:05	2022-11-04T04:06:59	2022-11-04T05:15:50	2022-11-04T05:22:55	01:08:51	00:00:00
2	2022-11-08T00:00:00	2022-11-08T00:06:00	2022-11-08T00:06:18	2022-11-08T01:37:36	2022-11-08T01:39:12	01:31:18	00:00:00
3	2022-11-08T00:00:00	2022-11-08T08:27:09	2022-11-08T08:28:25	2022-11-08T11:59:29	2022-11-08T12:02:14	03:31:04	00:00:00
4	2022-11-08T00:00:00	2022-11-08T17:55:54	2022-11-08T17:55:56	2022-11-08T20:37:28	2022-11-08T20:38:29	02:41:32	00:00:00
5	2022-11-09T00:00:00	2022-11-09T00:35:16	2022-11-09T00:35:37	2022-11-09T02:12:04	2022-11-09T02:12:53	01:36:27	00:00:00
6	2022-11-09T00:00:00	2022-11-09T16:39:32	2022-11-09T16:40:54	2022-11-09T20:38:00	2022-11-09T20:39:35	03:57:06	00:00:00
7	2022-11-09T00:00:00	2022-11-09T22:40:24	2022-11-09T22:40:43	2022-11-10T01:10:23	2022-11-10T01:11:45	02:29:40	00:00:00
8	2022-11-10T00:00:00	2022-11-10T03:21:22	2022-11-10T03:21:39	2022-11-10T05:25:38	2022-11-10T05:27:10	02:03:59	00:00:00
9	2022-11-10T00:00:00	2022-11-10T08:13:47	2022-11-10T08:13:58	2022-11-10T10:38:32	2022-11-10T10:40:53	02:24:34	00:00:00
10	2022-11-10T00:00:00	2022-11-10T13:52:40	2022-11-10T13:53:09	2022-11-10T15:41:07	2022-11-10T15:42:34	01:47:58	00:00:00
11	2022-11-10T00:00:00	2022-11-10T18:01:26	2022-11-10T18:01:37	2022-11-10T20:02:54	2022-11-10T20:03:57	02:01:17	00:00:00
12	2022-11-11T00:00:00	2022-11-11T00:49:34	2022-11-11T00:49:40	2022-11-11T03:24:09	2022-11-11T03:25:16	02:34:29	00:00:00
13	2022-11-11T00:00:00	2022-11-11T05:01:12	2022-11-11T05:01:20	2022-11-11T07:19:38	2022-11-11T07:21:19	02:18:18	00:00:00
14	2022-11-14T00:00:00	2022-11-14T18:31:28	2022-11-14T18:31:49	2022-11-15T06:33:37	2022-11-15T06:35:04	12:01:48	00:00:00
15	2022-11-15T00:00:00	2022-11-15T11:34:19	2022-11-15T11:35:20	2022-11-15T14:01:52	2022-11-15T14:02:44	02:26:32	00:00:00
16	2022-11-15T00:00:00	2022-11-15T19:14:26	2022-11-15T19:16:09	2022-11-15T23:54:19	2022-11-15T23:56:17	04:36:59	00:01:11
17	2022-11-16T00:00:00	2022-11-16T04:17:46	2022-11-16T04:17:54	2022-11-16T07:23:02	2022-11-16T07:24:26	03:05:08	00:00:00
18	2022-11-16T00:00:00	2022-11-16T14:50:11	2022-11-16T14:50:24	2022-11-16T17:09:08	2022-11-16T17:10:16	02:18:44	00:00:00
19	2022-11-16T00:00:00	2022-11-16T21:48:24	2022-11-16T21:48:24	2022-11-16T23:51:29	2022-11-16T23:53:30	02:03:05	00:00:00
20	2022-11-17T00:00:00	2022-11-17T03:46:15	2022-11-17T03:46:30	2022-11-17T05:42:18	2022-11-17T05:43:19	01:55:48	00:00:00
21	2022-11-17T00:00:00	2022-11-17T08:06:51	2022-11-17T08:07:24	2022-11-17T10:14:16	2022-11-17T10:14:40	02:06:52	00:00:00
22	2022-11-17T00:00:00	2022-11-17T13:02:20	2022-11-17T13:03:08	2022-11-17T14:50:46	2022-11-17T14:51:44	01:47:38	00:00:00

TREATMENT TIME TECHNICAL DATA

Treatment Interval	Start Date (YYYY-MM-DD)	Well Open Time (YYYY-MM-DD hh-mm-ss)	Start Time (YYYY-MM-DD hh-mm-ss)	End Time (YYYY-MM-DD hh-mm-ss)	Well Shut In Time (YYYY-MM-DD hh-mm-ss)	Total Pump Time (hh:mm:ss)	Down Time (hh:mm:ss)
23	2022-11-17T00:00:00	2022-11-17T18:07:29	2022-11-17T18:07:40	2022-11-17T19:44:44	2022-11-17T19:45:42	01:37:04	00:00:00
24	2022-11-17T00:00:00	2022-11-17T23:42:41	2022-11-17T23:43:07	2022-11-18T01:17:24	2022-11-18T01:18:39	01:34:17	00:00:00
25	2022-11-18T00:00:00	2022-11-18T06:18:02	2022-11-18T06:20:20	2022-11-18T08:29:58	2022-11-18T08:31:34	02:09:38	00:00:00
26	2022-11-18T00:00:00	2022-11-18T12:27:48	2022-11-18T12:28:28	2022-11-18T14:24:41	2022-11-18T14:25:54	01:56:13	00:00:00
27	2022-11-18T00:00:00	2022-11-18T17:06:47	2022-11-18T17:07:02	2022-11-18T19:09:41	2022-11-18T19:10:37	02:02:39	00:00:00
28	2022-11-18T00:00:00	2022-11-18T22:33:35	2022-11-18T22:33:58	2022-11-19T00:53:17	2022-11-19T00:55:31	02:19:19	00:00:00
29	2022-11-19T00:00:00	2022-11-19T04:00:27	2022-11-19T04:00:44	2022-11-19T05:56:45	2022-11-19T05:57:29	01:56:01	00:00:00
30	2022-11-19T00:00:00	2022-11-19T17:04:39	2022-11-19T17:05:18	2022-11-19T19:21:21	2022-11-19T19:22:44	02:16:03	00:00:00
31	2022-11-19T00:00:00	2022-11-19T21:55:34	2022-11-19T21:55:54	2022-11-20T00:16:03	2022-11-20T00:17:32	02:20:09	00:00:00
32	2022-11-20T00:00:00	2022-11-20T03:38:48	2022-11-20T03:40:11	2022-11-20T05:54:23	2022-11-20T05:56:03	02:14:12	00:00:00
33	2022-11-20T00:00:00	2022-11-20T10:31:45	2022-11-20T10:32:14	2022-11-20T12:54:09	2022-11-20T12:54:46	02:21:55	00:00:00
34	2022-11-20T00:00:00	2022-11-20T16:06:02	2022-11-20T16:06:49	2022-11-20T18:07:01	2022-11-20T18:08:18	02:00:12	00:00:00
35	2022-11-20T00:00:00	2022-11-20T23:37:55	2022-11-20T23:38:17	2022-11-21T01:46:21	2022-11-21T01:47:34	02:08:04	00:00:00
36	2022-11-21T00:00:00	2022-11-21T05:53:41	2022-11-21T05:54:16	2022-11-21T07:54:15	2022-11-21T07:55:09	01:59:59	00:00:00
37	2022-11-21T00:00:00	2022-11-21T10:53:35	2022-11-21T10:54:23	2022-11-21T12:45:07	2022-11-21T12:45:42	01:50:44	00:00:00
38	2022-11-21T00:00:00	2022-11-21T15:49:25	2022-11-21T15:49:29	2022-11-21T17:48:14	2022-11-21T17:49:24	01:58:45	00:00:00

QA / QC TECHNICAL DATA

Treatment Interval	Gel Viscosity (cP)	Fluid Temperature (F)	Gel pH	Interval Comments	Technology Application
1	0	60	0	Stage screened out	SplitFlow; WCU
2	0	60	0	Stage cut due to pressure	SplitFlow; WCU
3	0	60	0	Pumped to completion	SplitFlow; WCU
4	0	60	0	Pumped to completion	SplitFlow; WCU
5	0	60	0	Cut due to pressure	SplitFlow; WCU
6	0	60	0	Stage cut due to pressure	SplitFlow; WCU
7	0	60	0	Stage cut due to pressure	SplitFlow; WCU
8	0	60	0	Stage cut due to pressure	SplitFlow; WCU
9	0	60	0	Cut sand due to pressure	SplitFlow; WCU
10	0	60	0	Stage cut due to pressure	SplitFlow; WCU
11	0	60	0	Stage cut due to pressure	SplitFlow; WCU
12	0	60	0	Stage pumped to completion	SplitFlow; WCU
13	0	60	0	Cut sand due to pressure	SplitFlow; WCU
14	0	60	0	Pumped to completion	SplitFlow; WCU
15	0	60	0	Pumped to completion	SplitFlow; WCU
16	0	60	0	Pumped to completion	SplitFlow; WCU
17	0	60	0	Pumped to completion	SplitFlow; WCU
18	0	60	0	Pumped to completion	SplitFlow; WCU
19	0	60	0	Stage cut short due to pressure	SplitFlow; WCU
20	0	60	0	Cut sand due pressure	SplitFlow; WCU
21	0	60	0	Pumped to completion	SplitFlow; WCU
22	0	60	0	Cut stage due to pressure	SplitFlow; WCU

QA / QC TECHNICAL DATA

Treatment Interval	Gel Viscosity (cP)	Fluid Temperature (F)	Gel pH	Interval Comments	Technology Application
23	0	60	0	Pumped to completion	SplitFlow; WCU
24	0	60	0	Cut stage short due to pressure	SplitFlow; WCU
25	0	60	0	Cut sand due to pressure	SplitFlow; WCU
26	0	60	0	Pumped to completion	SplitFlow; WCU
27	0	60	0	Pumped to completion	SplitFlow; WCU
28	0	60	0	Stage cut short due to pressure.	SplitFlow; WCU
29	0	60	0	Pumped to completion	SplitFlow; WCU
30	0	60	0	Pumped to completion.	SplitFlow; WCU
31	0	60	0	Pumped to completion.	SplitFlow; WCU
32	0	60	0	Pumped to completion	SplitFlow; WCU
33	0	60	0	Pumped to completion	SplitFlow; WCU
34	0	60	0	Pumped to completion.	SplitFlow; WCU
35	0	60	0	pumped to completion.	SplitFlow; WCU
36	0	60	0	Pumped to completion	SplitFlow; WCU
37	0	60	0	Pumped to Completion.	SplitFlow; WCU
38	0	60	0	Pumped to completion.	SplitFlow; WCU

TUBULAR DATA

Type	OD (in)	Weight (lbm/ft)	Top MD (ft)	Bottom MD (ft)	Volume Factor (gal/ft)
Casing	5.5	20	0	15092	0.931

TREATMENT CUSTOM VARIABLES

Treatment Interval	Avg PSI PSI	Avg Rate BPM	ISIP PSI	Max PSI PSI	Max Rate BPM
1	7199	61.4	3517	9715	79.1
2	6306	60.6	3442	8116	76.5
3	6440	68.2	3820	7015	80.1
4	6287	65	3948	7938	81.6
5	6235	67.5	3837	8258	80.4
6	5640	56	4046	8070	81.9
7	6290	72.4	3465	8119	80.6
8	6792	70	3592	8327	82.4
9	7337	84.5	4184	9428	92.4
10	7053	85.1	4162	8258	91.9
11	7532	74.8	4594	9016	90.7
12	6550	82	3299	8005	91
13	6437	82.4	3725	8203	91
14	5424	75.8	3416	6566	89.6
15	5495	83.4	3132	5795	86
16	5645	83.8	3142	6008	84.5
17	5946	81.1	3248	6911	83.3
18	6250	86.3	3301	6633	87.5
19	6134	75.1	3143	7289	81.7
20	6077	79.8	3262	7358	80.3
21	6235	88	3137	7749	90.2
22	6455	89.6	3124	7277	90.3

TREATMENT CUSTOM VARIABLES

Treatment Interval	Avg PSI	Avg Rate	ISIP	Max PSI	Max Rate
	PSI	BPM	PSI	PSI	BPM
23	6546	84.3	2950	8752	88.6
24	6000	81.2	3121	6782	83.6
25	5839	82.1	3229	6804	84.2
26	5704	89	3121	6278	90.5
27	6042	84.5	3144	7163	71.2
28	6278	80.1	4280	7368	87.4
29	5956	86.6	2973	6893	89.7
30	5353	77.7	2888	6497	81.7
31	4846	78.9	2646	6766	81.6
32	4631	80	2658	5023	80.7
33	5284	83.2	2887	5910	90.5
34	5286	87	2866	7554	90.3
35	4471	83.4	2534	5826	86
36	4451	89.2	2580	4643	90.9
37	4291	89.9	2647	4445	91.5
38	4119	86.3	2541	5399	90.7

STAGE DESCRIPTION

Treatment Interval	Acid		Breakdown		Flush		PLF		Pad		Pre-Flush		Spacer	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
1	1000	992	0	340	0	0	406175	80422	16050	42440	0	1701	0	50180
2	1000	992	0	337	17868	26133	406175	168742	16050	31333	0	0	0	0
3	1000	992	0	930	17672	17460	406175	475992	16050	43146	0	2532	0	0
4	1000	992	0	691	17475	17956	406175	371391	16050	35460	0	2855	0	0
5	1000	992	0	834	17278	36941	406175	193108	16050	36389	0	0	0	0
6	1000	992	0	873	17082	21777	406175	275246	16050	33065	0	0	0	98961
7	1000	992	0	593	16885	26076	406175	358394	16050	43911	0	1076	0	14600
8	1000	992	0	758	16689	38261	406175	159429	16050	56858	0	0	0	105616
9	1000	992	0	975	16492	47989	406175	206962	16050	58239	0	0	0	73384
10	1000	992	0	1082	16296	21347	406175	235634	16050	60367	0	0	0	0
11	1000	992	0	790	16099	26346	406175	200166	16050	73367	0	0	0	74228
12	1000	992	0	598	15903	24313	406175	350452	16050	68270	0	2079	0	0
13	1000	992	0	613	15706	33738	406175	222991	16050	72374	0	0	0	100667
14	1000	992	0	823	15510	20075	406175	412979	16050	150361	0	1754	0	0
15	1000	992	0	1103	15313	15487	406175	366456	16050	60463	0	2581	0	1570
16	1000	992	0	738	15117	20930	406175	352284	16050	286652	0	0	0	0
17	1000	992	0	998	14920	14995	406175	473458	16050	83189	0	2073	0	0
18	1000	992	0	1025	14724	18209	406175	363642	16050	39311	0	0	0	0
19	1000	992	0	5634	14527	24343	406175	272853	16050	37576	0	0	0	0
20	1000	992	0	882	14330	60335	406175	234485	16050	43590	0	0	0	0
21	1000	992	0	871	14134	18612	406175	352350	16050	33224	0	0	0	0
22	1000	992	0	906	13937	17668	406175	277785	16050	36704	0	0	0	0

STAGE DESCRIPTION

Treatment Interval	Acid		Breakdown		Flush		PLF		Pad		Pre-Flush		Spacer	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
23	1000	992	0	838	13741	19344	406175	234263	16050	34441	0	0	0	0
24	1000	992	0	30	13544	31345	406175	203659	16050	36642	0	0	0	963
25	1000	992	0	69	13348	32299	406175	297207	16050	47623	0	0	0	0
26	1000	992	0	637	13151	18054	406175	319531	16050	41084	0	0	0	0
27	1000	992	0	587	12955	16843	406175	302644	16050	68592	0	0	0	0
28	1000	992	0	832	12758	74026	406175	232560	16050	47830	0	0	0	29437
29	1000	992	0	471	12562	16794	406175	316561	16050	29901	0	0	0	4852
30	1000	992	0	2418	12365	25841	406175	292089	16050	55840	0	2635	0	0
31	1000	992	0	962	12169	12079	406175	374652	16050	32427	0	3060	0	0
32	1000	992	0	499	11972	16518	406175	348123	16050	39665	0	0	0	0
33	1000	992	0	723	11775	12050	406175	348499	16050	42690	0	2813	0	37983
34	1000	992	0	542	11579	18058	406175	336629	16050	40255	0	0	0	0
35	1000	992	0	621	11382	11119	406175	362540	16050	30944	0	2624	0	0
36	1000	992	0	1016	11186	15054	406175	312748	16050	64944	0	0	0	0
37	1000	1000	0	357	10989	14525	406175	319041	16050	33172	0	0	0	0
38	1000	992	0	670	10793	11545	406175	326221	16050	37862	0	1967	0	0
Total	38000	37704	0	33666	530226	894485	15434650	11332188	609900	2110201	0	29750	0	592441

STAGE DESCRIPTION

Treatment Interval	Wireline Pump-In		Total	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
1	0	55440	423225	231515
2	0	18732	441093	246269
3	0	17430	440897	558482
4	0	16212	440700	445557
5	0	16170	440503	284434
6	0	18144	440307	449058
7	0	16212	440110	461854
8	0	15792	439914	377706
9	0	15540	439717	404081
10	0	16506	439521	335928
11	0	15456	439324	391345
12	0	13440	439128	460144
13	0	12768	438931	444143
14	0	10122	438735	597106
15	0	11928	438538	460580
16	0	11970	438342	673566
17	0	11592	438145	587297
18	0	11424	437949	434603
19	0	9660	437752	351058
20	0	9156	437555	349440
21	0	8442	437359	414491
22	0	0	437162	334055

STAGE DESCRIPTION

Treatment Interval	Wireline Pump-In		Total	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
23	0	8526	436966	298404
24	0	7938	436769	281569
25	0	16632	436573	394822
26	0	7812	436376	388110
27	0	6468	436180	396126
28	0	8400	435983	394077
29	0	8400	435787	377971
30	0	5460	435590	385275
31	0	5628	435394	429800
32	0	4410	435197	410207
33	0	3696	435000	449446
34	0	3696	434804	400172
35	0	2856	434607	411696
36	0	2730	434411	397484
37	0	1554	434214	369649
38	0	1512	434018	380769
Total	0	427854	16612776	15458289

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
1	2	Breakdown	FR Water (FightR EC-1)		0	0	0	1.31	333.38	333.38	333.38
	3	Acid	15% HCl		0	0	0	9.74	996.65	996.65	1330.03
	4	Pad	FR Water (FightR EC-1)		0	0	0	48.39	42441.51	42441.51	43771.54
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	74.3	16322.81	16322.81	60094.35
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	74.37	3624.27	3624.27	63718.62
	7	Spacer	FR Water (FightR EC-1)		0	0	0	75.12	21536.38	21537.99	85255
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	74.79	15036.57	15110.29	100291.57
	9	Spacer	FR Water (FightR EC-1)		0	0	0	75.02	8394.55	8425.34	108686.12
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	75.08	10998.79	11189.45	119684.91
	11	Spacer	FR Water (FightR EC-1)		0	0	0	75.07	7864.96	7899.07	127549.87
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	74.8	9954.73	10142.67	137504.6
	13	Spacer	FR Water (FightR EC-1)		0	0	0	75.03	6828.23	6885.7	144332.83
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	74.99	15198.81	15676.93	159531.64
	15	Spacer	FR Water (FightR EC-1)		0	0	0	75.13	5603	5677.2	165134.64
	16	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	75.04	3545.86	3601.38	168680.5
	17	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	75.03	5692.83	5880.82	174373.33
	18	Pre-Flush	FR Water (FightR EC-1)		0	0	0	3.94	1701.07	1722.35	176074.4
	2	2	Breakdown	FR Water (FightR EC-1)		0	0	0	2.94	330.1	330.1
3		Acid	15% HCl		0	0	0	9.99	995.39	995.39	177399.89
4		Pad	FR Water (FightR EC-1)		0	0	0	33.83	31336.43	31336.43	208736.32
5		PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	70.2	1091.52	1091.52	209827.84
6		PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	72.44	22244.12	22839.9	232071.96

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
2	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	72.4	14506.98	15410.31	246578.94
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	72.97	80241.5	82286.87	326820.44
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.6	0.6	0.6	73.06	36367.16	37394.26	363187.6
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	72.91	14290.78	14642.4	377478.38
	11	Flush	FR Water (FightR EC-1)		0	0	0	73.05	20986.61	21020.52	398464.99
	12	Flush	FR Water (FightR EC-1)		0	0	0	27.13	5146.49	5146.47	403611.48
3	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.57	929.9	929.89	404541.38
	3	Acid	15% HCl		0	0	0	9.9	986.83	986.81	405528.21
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.17	6873.28	6881.26	412401.49
	5	Pad	Hybor G 25#		0	0	0	25.55	1644.6	1644.6	414046.09
	6	Pad	FR Water (FightR EC-1)		0	0	0	19.5	6850.97	6852.43	420897.06
	7	Pad	Hybor G 25#		0	0	0	64.83	27726.7	27726.69	448623.76
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.93	7443.63	7508.61	456067.39
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	75.07	33447.36	34270.34	489514.75
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	67.58	435116.23	445750.18	924630.98
	11	Pre-Flush	FR Water (FightR EC-1)		0	0	0	60.32	2531.55	2557.76	927162.53
	12	Flush	FR Water (FightR EC-1)		0	0	0	40.45	17502.58	17502.58	944665.11
	4	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.74	690.53	690.53
3		Acid	15% HCl		0	0	0	10	989.71	989.7	946345.35
4		Pad	FR Water (FightR EC-1)		0	0	0	39.71	35406.82	35406.8	981752.17
5		PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.46	12442.38	12585.33	994194.55
6		PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	77.93	11302.66	11739.32	1005497.21

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
4	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	70.57	347661.44	356185.23	1353158.65
	8	Pre-Flush	FR Water (FightR EC-1)		0	0	0	58.96	2854.64	2877.3	1356013.29
	9	Flush	FR Water (FightR EC-1)		0	0	0	46.27	17997.69	17997.72	1374010.98
5	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.62	833.57	833.55	1374844.55
	3	Acid	15% HCl		0	0	0	10.33	985.73	985.74	1375830.28
	4	Pad	FR Water (FightR EC-1)		0	0	0	40.37	36395.45	36395.44	1412225.73
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.88	14641.06	14953.26	1426866.79
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.68	22444.61	23497.84	1449311.4
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.07	155967.35	159797.8	1605278.75
	8	Flush	FR Water (FightR EC-1)		0	0	0	80.03	30415.76	30444.01	1635694.51
	9	Flush	FR Water (FightR EC-1)		0	0	0	36.26	6579.82	6581.04	1642274.33
6	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.57	866.09	866.09	1643140.42
	3	Acid	15% HCl		0	0	0	9.99	995.4	995.4	1644135.82
	4	Pad	FR Water (FightR EC-1)		0	0	0	34.99	33012.81	33012.81	1677148.63
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.43	7407.32	7502.2	1684555.95
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.35	4767.73	4885.31	1689323.68
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.29	5059.93	5165.87	1694383.61
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.71	97681.65	99923.93	1792065.26
	9	Spacer	FR Water (FightR EC-1)		0	0	0	14.57	65667.62	65704.89	1857732.88
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	79.18	18730.98	18922.66	1876463.86
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	78.28	47956.5	49082.35	1924420.36
	12	Spacer	FR Water (FightR EC-1)		0	0	0	77.54	33293.43	33331.92	1957713.79

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
6	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	77.83	20538.48	20747.22	1978252.27
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	77.34	44098.9	45115.72	2022351.17
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	77.81	8638.06	8915.26	2030989.23
	16	PLF	FR Water (FightR EC-1)	30/50 Premium White	1	1	1	77.95	20421.46	21327.57	2051410.69
	17	Flush	FR Water (FightR EC-1)		0	0	0	77.92	3728.18	3800.8	2055138.87
	18	Flush	FR Water (FightR EC-1)		0	0	0	55.2	18049.02	18049.02	2073187.89
7	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.8	592.96	592.96	2073780.85
	3	Acid	15% HCl		0	0	0	9.86	989.62	989.63	2074770.47
	4	Pad	FR Water (FightR EC-1)		0	0	0	41.73	38531.45	38531.41	2113301.92
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	80.08	1471.87	1471.87	2114773.79
	6	Pre-Flush	FR Water (FightR EC-1)		0	0	0	80.11	1019.67	1019.67	2115793.46
	7	Flush	FR Water (FightR EC-1)		0	0	0	80.13	2211.39	2211.39	2118004.85
	8	Flush	FR Water (FightR EC-1)		0	0	0	80.14	2605.66	2605.67	2120610.51
	9	Pad	FR Water (FightR EC-1)		0	0	0	80.14	5381.63	5381.64	2125992.14
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	79.83	9404.8	9477.34	2135396.94
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.02	17619.97	17874.67	2153016.91
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	2.5	1.5	80.29	1058.75	1078.68	2154075.66
	13	Spacer	FR Water (FightR EC-1)		0	0	0	80.2	14599.59	14630.95	2168675.25
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.1	2.5	1.3	80.17	21657.19	22333.12	2190332.44
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.96	906.58	961.25	2191239.02
16	PLF	FR Water (FightR EC-1)	30/50 Premium White	1.5	1.5	1.5	79.41	16944.3	18025.45	2208183.32	
17	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.03	289329.76	296324.32	2497513.08	

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
7	18	Flush	FR Water (FightR EC-1)		0	0	0	80.06	3689.31	3734.91	2501202.39
	19	Flush	FR Water (FightR EC-1)		0	0	0	57.09	17625.6	17625.59	2518827.99
8	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.51	751.34	751.34	2519579.33
	3	Acid	15% HCl		0	0	0	9.88	992.02	992.03	2520571.35
	4	Pad	FR Water (FightR EC-1)		0	0	0	48.8	56864.59	56864.6	2577435.94
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.05	12605.73	12791.19	2590041.67
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.94	4171.28	4238.65	2594212.95
	7	Spacer	FR Water (FightR EC-1)		0	0	0	79.96	29459.09	29503.92	2623672.04
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	79.73	11985.87	12117.8	2635657.91
	9	Spacer	FR Water (FightR EC-1)		0	0	0	80.17	13587.45	13601.4	2649245.36
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	78.17	17151.12	17402.99	2666396.48
	11	Spacer	FR Water (FightR EC-1)		0	0	0	79.74	17932.38	17975.82	2684328.86
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.7	30120.17	30708.83	2714449.03
	13	Spacer	FR Water (FightR EC-1)		0	0	0	80.13	44572.04	44582.34	2759021.07
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	80.16	53562.52	54064.66	2812583.59
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.2	29846.76	30509.41	2842430.35
	16	Flush	FR Water (FightR EC-1)		0	0	0	77.26	25192.7	25233.81	2867623.05
17	Flush	FR Water (FightR EC-1)		0	0	0	45.65	13121.33	13121.33	2880744.38	
9	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.42	968.35	968.4	2881712.73
	3	Acid	15% HCl		0	0	0	9.78	995.86	995.84	2882708.59
	4	Pad	FR Water (FightR EC-1)		0	0	0	51.66	58178.34	58178.49	2940886.93
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	90.5	18690.79	19120.79	2959577.72

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
9	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	90.32	13554.6	14304.09	2973132.32
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	88.96	93867.45	96170.49	3066999.77
	8	Spacer	FR Water (FightR EC-1)		0	0	0	87.85	30339.64	30383.07	3097339.41
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	86.01	35396.2	35819.68	3132735.61
	10	Spacer	FR Water (FightR EC-1)		0	0	0	82.2	43052.23	43070.23	3175787.84
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	74.62	20023.51	20264.08	3195811.35
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.35	0.35	0.35	74.58	988.52	1001.31	3196799.87
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.4	0.4	0.4	73.87	24447.93	24909.78	3221247.8
	14	Flush	FR Water (FightR EC-1)		0	0	0	34.15	36266.39	36294.37	3257514.19
	15	Flush	FR Water (FightR EC-1)		0	0	0	28.59	11772.04	11772.02	3269286.23
10	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.21	1075.16	1075.21	3270361.39
	3	Acid	15% HCl		0	0	0	9.73	997.16	997.21	3271358.55
	4	Pad	FR Water (FightR EC-1)		0	0	0	51.95	60307.06	60306.9	3331665.61
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.42	33175.12	34592.14	3364840.73
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.52	29630.41	32414.15	3394471.14
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.9	172836.11	176975.26	3567307.25
	8	Flush	FR Water (FightR EC-1)		0	0	0	78.03	3713.49	3750.66	3571020.74
	9	Flush	FR Water (FightR EC-1)		0	0	0	58.59	17686.7	17686.66	3588707.44
	11	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.8	782.83	782.78
3		Acid	15% HCl		0	0	0	10.92	995.68	995.71	3590485.95
4		Pad	FR Water (FightR EC-1)		0	0	0	56.6	73306.75	73306.92	3663792.7
5		PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	90.1	11842.93	11975.27	3675635.63

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
11	6	Spacer	FR Water (FightR EC-1)		0	0	0	90.24	16052.16	16143.84	3691687.79
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.68	28602.82	29234.35	3720290.61
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.89	22259.38	23014.35	3742549.99
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.97	9017.59	9414.31	3751567.58
	10	Spacer	FR Water (FightR EC-1)		0	0	0	90.13	24616.3	24726.27	3776183.88
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	83.26	114080.54	116750.19	3890264.42
	12	Spacer	FR Water (FightR EC-1)		0	0	0	82.22	33551.67	33600.82	3923816.09
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	81.76	14377.81	14565.66	3938193.9
	14	Flush	FR Water (FightR EC-1)		0	0	0	82.13	5515.9	5516.09	3943709.8
	15	Flush	FR Water (FightR EC-1)		0	0	0	59.4	20887.94	20887.94	3964597.74
12	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.07	597.58	597.64	3965195.32
	3	Acid	15% HCl		0	0	0	9.78	989.66	989.68	3966184.98
	4	Pad	FR Water (FightR EC-1)		0	0	0	57.9	68272.12	68297.65	4034457.1
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.81	29679.82	30870.66	4064136.92
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.34	23551.04	25643.51	4087687.96
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.62	297221.35	304379.17	4384909.31
	8	Pre-Flush	FR Water (FightR EC-1)		0	0	0	80.04	2079.15	2094.3	4386988.46
	9	Flush	FR Water (FightR EC-1)		0	0	0	30.65	24313.58	24313.68	4411302.04
	13	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.56	612.89	612.89
3		Acid	15% HCl		0	0	0	9.93	990.55	990.55	4412905.48
4		Pad	FR Water (FightR EC-1)		0	0	0	45.29	38874.62	38874.62	4451780.1
5		Pad	Hybor G 25#		0	0	0	90.77	22209.76	22209.76	4473989.86

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
13	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.97	26740.82	27685.58	4500730.68
	7	Flush	Hybor G 25#		0	0	0	76.43	3783.63	3893.06	4504514.31
	8	Pad	FR Water (FightR EC-1)		0	0	0	81.02	11226.73	11233.91	4515741.04
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.27	149015.93	152572.21	4664756.97
	10	Spacer	FR Water (FightR EC-1)		0	0	0	81.72	42779.52	42811.37	4707536.49
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	84.65	14439.92	14601.49	4721976.41
	12	Spacer	FR Water (FightR EC-1)		0	0	0	84.85	57887.58	57898.93	4779863.99
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	84.58	32858.17	33191.11	4812722.16
	14	Flush	FR Water (FightR EC-1)		0	0	0	84.61	11298.46	11301.33	4824020.62
14	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.65	816.25	816.24	4843492.45
	3	Acid	15% HCl		0	0	0	10.79	992.22	992.22	4844484.67
	4	Pad	FR Water (FightR EC-1)		0	0	0	55.89	46256.08	46256.07	4890740.75
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.87	27301.31	28535.22	4918042.06
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.29	7958.66	8716.03	4926000.72
	7	Flush	FR Water (FightR EC-1)		0	0	0	90.18	3976.78	4080.63	4929977.5
	8	Pad	FR Water (FightR EC-1)		0	0	0	56.39	104048.7	104048.65	5034026.2
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	88.36	29885.1	31300.37	5063911.3
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.8	6451.46	7111.73	5070362.76
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	73.95	341401.09	350418.28	5411763.85
	12	Pre-Flush	FR Water (FightR EC-1)		0	0	0	73.41	1752.72	1763.12	5413516.57
13	Flush	FR Water (FightR EC-1)		0	0	0	55.57	16145.31	16145.29	5429661.88	

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
15	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.56	1096.32	1096.31	5430758.2
	3	Acid	15% HCl		0	0	0	9.75	992.5	992.55	5431750.7
	4	Pad	FR Water (FightR EC-1)		0	0	0	53.74	60408.41	60408.4	5492159.11
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.36	24191.22	25288.56	5516350.33
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	81.77	11323.56	12087.12	5527673.89
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.65	5551.29	5878.43	5533225.18
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.69	7856.65	8426.2	5541081.83
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.6	4466.55	4839.26	5545548.38
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.19	8407.54	9216.74	5553955.92
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.78	1744.05	1917.23	5555699.97
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.43	2812.82	3102.62	5558512.79
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.68	263559.89	269706.07	5822072.68
	14	Spacer	FR Water (FightR EC-1)		0	0	0	75.14	1517.26	1540.79	5823589.94
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	74.97	36603.88	37280.01	5860193.82
	16	Pre-Flush	FR Water (FightR EC-1)		0	0	0	75.1	2580.28	2602.24	5862774.1
17	Flush	FR Water (FightR EC-1)		0	0	0	61.68	15539.88	15539.87	5878313.98	
16	2	Breakdown	FR Water (FightR EC-1)		0	0	0	3.53	731.12	731.13	5879045.1
	3	Acid	15% HCl		0	0	0	9.85	996.43	996.41	5880041.53
	4	Pad	FR Water (FightR EC-1)		0	0	0	70.38	167657.5	167657.42	6047699.03
	5	Pad	Hybor G 25#		0	0	0	81.54	40890.84	40890.82	6088589.87
	6	Pad	FR Water (FightR EC-1)		0	0	0	4.19	13523.42	13523.44	6102113.29
	7	Pad	Hybor G 25#		0	0	0	83.79	64523.19	64523.15	6166636.48

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
16	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.38	4127.88	4177.07	6170764.36
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.25	28871.54	29906.27	6199635.9
	10	PLF	Hybor G 25#	30/50 Premium White	0.5	0.5	0.5	84.4	38928.3	40336.79	6238564.2
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.92	50666.29	51808.48	6289230.49
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	83.57	229692.95	237239.69	6518923.44
	13	Flush	FR Water (FightR EC-1)		0	0	0	83.48	3759.29	3780.98	6522682.73
	14	Flush	FR Water (FightR EC-1)		0	0	0	49.84	17227.93	17227.95	6539910.66
17	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.32	997.72	997.74	6540908.38
	3	Acid	15% HCl		0	0	0	11.9	977.16	977.14	6541885.54
	4	Pad	FR Water (FightR EC-1)		0	0	0	31.42	18134.52	18134.53	6560020.06
	5	Pad	Hybor G 25#		0	0	0	81.3	65068.63	65068.62	6625088.69
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.97	59333.52	60729.22	6684422.21
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	82.99	11052.74	11317.9	6695474.95
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	82.83	113448.47	116141.75	6808923.42
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	82.72	23424.13	24218.15	6832347.55
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.82	266199	272537.88	7098546.55
	11	Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.81	2072.58	2087.58	7100619.13
	12	Flush	FR Water (FightR EC-1)		0	0	0	59.4	14995.09	14995.04	7115614.22
18	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.22	1018.36	1027.07	7116632.58
	3	Acid	15% HCl		0	0	0	9.8	997.73	997.74	7117630.31
	4	Pad	FR Water (FightR EC-1)		0	0	0	9.87	530.87	530.85	7118161.18
	5	Pad	Hybor G 25#		0	0	0	9.84	201.68	201.68	7118362.86

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
18	6	Pad	FR Water (FightR EC-1)		0	0	0	26.54	18914.44	18923.62	7137277.3
	7	Pad	Hybor G 25#		0	0	0	78.32	19605.46	19605.45	7156882.76
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	86.02	31307.81	32771.32	7188190.57
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.85	20419.64	22520.9	7208610.21
	10	PLF	Hybor G 25#	30/50 Premium White	0.5	0.5	0.5	86.19	2145.01	2316.5	7210755.22
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	86.48	309772.14	317194.27	7520527.36
	12	Flush	FR Water (FightR EC-1)		0	0	0	84.1	3413.69	3446.08	7523941.05
	13	Flush	FR Water (FightR EC-1)		0	0	0	63.97	14853.8	14853.74	7538794.85
19	2	Breakdown	FR Water (FightR EC-1)		0	0	0	18.56	5613.65	5613.66	7544408.5
	3	Acid	15% HCl		0	0	0	29.53	1001.62	1001.63	7545410.12
	4	Pad	FR Water (FightR EC-1)		0	0	0	20.51	6164.19	6164.2	7551574.31
	5	Pad	Hybor G 25#		0	0	0	73.06	31365.46	31365.46	7582939.77
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	81.42	14886.48	15139.74	7597826.25
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	75.57	22766.38	24520.74	7620592.63
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	73.72	6075.72	6774.06	7626668.35
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	73.52	2333.14	2598.76	7629001.49
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	74.79	226798.06	232260	7855799.55
	11	Flush	FR Water (FightR EC-1)		0	0	0	49.2	24394.26	24423.52	7880193.81
20	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.6	875.46	875.45	7881069.27
	3	Acid	15% HCl		0	0	0	13.44	982.14	982.15	7882051.41
	4	Pad	FR Water (FightR EC-1)		0	0	0	24.18	11045.28	11045.22	7893096.69
	5	Pad	Hybor G 25#		0	0	0	79.09	32504.94	32504.99	7925601.63

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
20	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.8	13783.05	14001.14	7939384.68
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.71	14766.01	15393.38	7954150.69
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.87	1892.64	1978.03	7956043.33
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.8	1934.3	2030.04	7957977.63
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.75	962.71	1015.15	7958940.34
	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.66	1540.22	1635.82	7960480.56
	12	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.63	1528.12	1633.33	7962008.68
	13	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.64	1415.56	1518.25	7963424.24
	14	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.68	12711.38	13752.34	7976135.62
	15	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.25	20013.64	21851.77	7996149.26
	16	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.5	7432.43	8093.09	8003581.69
	17	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.06	156507.98	160187.25	8160089.67
18	Flush	FR Water (FightR EC-1)			0	0	0	74.36	60390	60430.62	8220479.67
21	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.13	864.36	864.42	8221344.03
	3	Acid	15% HCl		0	0	0	9.77	994.54	994.54	8222338.57
	4	Pad	FR Water (FightR EC-1)		0	0	0	21.99	714.3	714.3	8223052.87
	5	Pad	Hybor G 25#		0	0	0	29.52	981.24	981.24	8224034.11
	6	Pad	FR Water (FightR EC-1)		0	0	0	29.63	13585.83	13585.79	8237619.94
	7	Pad	Hybor G 25#		0	0	0	72.65	17887.94	17887.97	8255507.88
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	87.72	35526.85	37151.53	8291034.73
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	87.67	12001.98	13078.17	8303036.71
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	83.27	1095.6	1179.12	8304132.31

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
21	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	86.16	5017.5	5364.94	8309149.81
	12	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.56	4809.48	5069.9	8313959.29
	13	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.41	4583.39	4941.51	8318542.68
	14	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.37	3287.12	3563.6	8321829.8
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	88.16	286028.84	293011.87	8607858.64
	16	Flush	FR Water (FightR EC-1)		0	0	0	88.03	3819.75	3858.09	8611678.39
	17	Flush	FR Water (FightR EC-1)		0	0	0	76.44	14853.42	14853.41	8626531.81
22	1	Breakdown	FR Water (FightR EC-1)		0	0	0	6.01	899.24	899.23	8627431.05
	2	Acid	15% HCl		0	0	0	9.94	997.87	997.83	8628428.92
	3	Pad	FR Water (FightR EC-1)		0	0	0	9.99	578.59	578.57	8629007.51
	4	Pad	Hybor G 25#		0	0	0	10.01	205.1	205.1	8629212.61
	5	Pad	FR Water (FightR EC-1)		0	0	0	23.01	12278.86	12278.83	8641491.47
	6	Pad	Hybor G 25#		0	0	0	79.97	23642	23642.07	8665133.47
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.57	33998.01	35603.79	8699131.48
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.54	920.42	1012.51	8700051.9
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.6	21094.02	23130.79	8721145.92
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.63	221711.39	227287.29	8942857.31
	11	Flush	FR Water (FightR EC-1)		0	0	0	89.39	3249.91	3284.92	8946107.22
	12	Flush	FR Water (FightR EC-1)		0	0	0	69.28	14480.23	14480.28	8960587.45
23	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.6	837.56	837.59	8961425.01
	3	Acid	15% HCl		0	0	0	11.44	979.94	979.93	8962404.95
	4	Pad	FR Water (FightR EC-1)		0	0	0	23.43	10092.8	10092.75	8972497.75

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
23	5	Pad	Hybor G 25#		0	0	0	77.25	24360.37	24360.42	8996858.12
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.2	8486.87	8543.96	9005344.99
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	81.78	13841.71	14227.16	9019186.7
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.59	2327.1	2391.89	9021513.8
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.63	2255.67	2334.64	9023769.47
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.67	2351.43	2454.26	9026120.9
	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.72	1993.35	2098.3	9028114.25
	12	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.75	2140.99	2275.64	9030255.24
	13	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.68	1898.99	2033.86	9032154.23
	14	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.59	2211.63	2393.02	9034365.86
	15	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.58	2618.76	2868.69	9036984.62
	16	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.59	4265.69	4726.85	9041250.31
	17	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.73	29805.55	33200.95	9071055.86
	18	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.8	2744.49	3057.9	9073800.35
	19	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.4	157266.15	160839.16	9231066.5
20	Flush	FR Water (FightR EC-1)		0	0	0	79.43	5245	5279.59	9236311.5	
21	Flush	FR Water (FightR EC-1)		0	0	0	50.74	14153.81	14153.82	9250465.31	
24	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.34	29.91	29.91	9250495.22
	3	Acid	15% HCl		0	0	0	13.02	986.38	986.37	9251481.6
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.81	11025.3	11025.36	9262506.9
	5	Pad	Hybor G 25#		0	0	0	82.01	25563.96	25563.98	9288070.86
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.31	10383.19	10479.99	9298454.05

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
24	7	Spacer	Hybor G 25#		0	0	0	82.23	963.29	990.06	9299417.34
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	81.23	25565.41	27401.55	9324982.75
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.89	22170.17	24741.73	9347152.92
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	81.23	51355.1	52608.16	9398508.02
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.6	0.6	0.6	80.67	94242.67	96834.14	9492750.69
	12	Flush	FR Water (FightR EC-1)		0	0	0	62.77	31344.97	31385.02	9524095.66
25	2	Breakdown	FR Water (FightR EC-1)		0	0	0	0.58	62.45	62.45	9524158.11
	3	Acid	15% HCl		0	0	0	9.81	992.21	992.19	9525150.32
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.31	17703.41	17703.25	9542853.73
	5	Pad	Hybor G 25#		0	0	0	76.52	29925.87	29925.81	9572779.6
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	81.96	36640.62	38526.83	9609420.22
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	81.01	15564.4	17357.25	9624984.62
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	82.22	245001.86	251248.12	9869986.48
	9	Flush	FR Water (FightR EC-1)		0	0	0	79.68	13766.29	13802.64	9883752.77
	10	Flush	FR Water (FightR EC-1)		0	0	0	60.78	18533.29	18533.24	9902286.06
	26	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.06	630.24	630.24
3		Acid	15% HCl		0	0	0	9.91	995.92	995.95	9903912.22
4		Pad	FR Water (FightR EC-1)		0	0	0	15.19	819.48	819.48	9904731.7
5		Pad	Hybor G 25#		0	0	0	29.41	1309.15	1309.14	9906040.85
6		Pad	FR Water (FightR EC-1)		0	0	0	38.05	18377.2	18377.21	9924418.05
7		Pad	Hybor G 25#		0	0	0	90.1	20517.82	20517.75	9944935.87
8		PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.53	30708.41	32029.47	9975644.28

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
26	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.23	25476.91	27987.71	10001121.19
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.03	263348.38	269746.83	10264469.57
	11	Flush	FR Water (FightR EC-1)		0	0	0	88.2	4823.48	4865.09	10269293.05
	12	Flush	FR Water (FightR EC-1)		0	0	0	64.54	13291.11	13291.08	10282584.16
27	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.1	579.89	579.87	10283164.05
	3	Acid	15% HCl		0	0	0	10.37	997.48	997.44	10284161.53
	4	Pad	FR Water (FightR EC-1)		0	0	0	13.47	716.91	716.92	10284878.44
	5	Pad	Hybor G 25#		0	0	0	24.59	746.83	746.82	10285625.27
	6	Pad	FR Water (FightR EC-1)		0	0	0	35.55	19711.76	19711.76	10305337.03
	7	Pad	Hybor G 25#		0	0	0	90.5	17654.43	17654.44	10322991.46
	8	Pad	Hybor G 25#		0	0	0	90.87	29704.7	30785.87	10352696.16
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	90.71	26933.3	29322.89	10379629.46
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	90.62	1582.32	1729.49	10381211.78
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	86.52	274133.85	280452.88	10655345.63
	12	Flush	FR Water (FightR EC-1)		0	0	0	77.97	3879.49	3911.32	10659225.12
13	Flush	FR Water (FightR EC-1)		0	0	0	59.13	13016.67	13016.66	10672241.79	
28	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.06	831.95	831.93	10673073.74
	3	Acid	15% HCl		0	0	0	9.82	985.84	985.86	10674059.58
	4	Pad	FR Water (FightR EC-1)		0	0	0	13.87	14810.91	14810.81	10688870.49
	5	Pad	Hybor G 25#		0	0	0	80.83	32963.78	32963.85	10721834.27
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	86.95	36819.03	38422.06	10758653.3
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	86.79	9160.47	10125.08	10767813.77

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
28	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	86.72	9524.32	10608.09	10777338.09
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.84	157086.18	160700.35	10934424.27
	10	Spacer	FR Water (FightR EC-1)		0	0	0	78.52	29437.19	29478.49	10963861.46
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	77.67	20031.33	20214.19	10983892.79
	12	Flush	FR Water (FightR EC-1)		0	0	0	69.84	74025.62	74038.5	11057918.41
29	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.63	464.32	464.32	11058382.73
	3	Acid	15% HCl		0	0	0	9.89	993.17	993.17	11059375.9
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.02	9328.63	9328.63	11068704.53
	5	Pad	Hybor G 25#		0	0	0	84.86	20577.59	20577.59	11089282.12
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	87.41	36661.03	38010.17	11125943.15
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.04	5043.64	5354.22	11130986.79
	8	Spacer	Hybor G 25#		0	0	0	88.16	4849.56	4987.21	11135836.35
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.3	4618.06	4681.53	11140454.41
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.11	15985.94	16573.13	11156440.35
	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	87.92	16709.09	17780.8	11173149.44
	12	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	87.91	7178.72	7766.64	11180328.16
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	87.8	3143.58	3411.43	11183471.74
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	86.17	227165.91	232675.31	11410637.65
	15	Flush	FR Water (FightR EC-1)		0	0	0	85.66	3646.25	3693.12	11414283.9
16	Flush	FR Water (FightR EC-1)		0	0	0	65.24	13206.62	13206.62	11427490.52	
30	2	Breakdown	FR Water (FightR EC-1)		0	0	0	8.28	2418	2418	11429908.52
	3	Acid	15% HCl		0	0	0	8.39	990	990	11430898.52

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
30	4	Pad	FR Water (FightR EC-1)		0	0	0	42.69	49282.95	49282.97	11480181.47
	5	Pad	FR Water (FightR EC-1)		0	0	0	79.98	6502.65	6503.17	11486684.12
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.56	36247.91	38072.56	11522932.03
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.79	23896.01	26679.94	11546828.04
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	81.41	231946.02	237284.54	11778774.06
	9	Pre-Flush	FR Water (FightR EC-1)		0	0	0	81.47	2633.9	2649.22	11781407.96
	10	Flush	FR Water (FightR EC-1)		0	0	0	65.41	25898.86	25898.82	11807306.82
31	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.57	961.85	961.85	11808268.67
	3	Acid	15% HCl		0	0	0	9.82	985.23	985.24	11809253.9
	4	Pad	FR Water (FightR EC-1)		0	0	0	25.84	10561.64	10561.66	11819815.54
	5	Pad	Hybor G 25#		0	0	0	75.81	21817.21	21817.21	11841632.75
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.05	36947.94	38825.28	11878580.69
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.52	4152.24	4611.54	11882732.93
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.74	2864.09	3196.15	11885597.02
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.7	330687.61	338357.51	12216284.63
	10	Pre-Flush	FR Water (FightR EC-1)		0	0	0	80.53	3058.7	3072.64	12219343.33
	11	Flush	FR Water (FightR EC-1)		0	0	0	52.81	12136.53	12136.54	12231479.86
32	2	Breakdown	FR Water (FightR EC-1)		0	0	0	3.31	498.98	499	12231978.84
	3	Acid	15% HCl		0	0	0	9.56	986.76	986.77	12232965.6
	4	Pad	FR Water (FightR EC-1)		0	0	0	23.52	9682.06	9682.03	12242647.66
	5	Pad	Hybor G 25#		0	0	0	79.57	29987.96	29987.91	12272635.62
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.29	36806.2	38497.84	12309441.82

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
32	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.47	9822.12	10923.13	12319263.94
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.96	301494.68	308602.58	12620758.62
	9	Flush	FR Water (FightR EC-1)		0	0	0	79.86	4373.06	4404.02	12625131.68
	10	Flush	FR Water (FightR EC-1)		0	0	0	53.35	12144.89	12144.93	12637276.57
33	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.93	722.53	722.54	12637999.1
	3	Acid	15% HCl		0	0	0	10	989.83	989.85	12638988.93
	4	Pad	FR Water (FightR EC-1)		0	0	0	10.02	113.28	113.29	12639102.21
	5	Pad	Hybor G 25#		0	0	0	12.87	275.04	275.04	12639377.25
	6	Pad	FR Water (FightR EC-1)		0	0	0	40.58	22972.12	22972.23	12662349.37
	7	Pad	Hybor G 25#		0	0	0	87.34	19271.36	19271.4	12681620.73
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	86.97	29584.13	30571.07	12711204.86
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	86.57	27351.61	29757.51	12738556.47
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.74	24556.62	25193.68	12763113.09
	11	Spacer	FR Water (FightR EC-1)		0	0	0	71.86	37981.65	38027.36	12801094.74
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.02	258825.42	265430.62	13059920.16
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	1	1	1	80.31	2732.7	2838.1	13062652.86
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	2	2	2	80.36	926.66	964.91	13063579.52
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	3	3	3	79.44	2033.58	2134.32	13065613.1
16	PLF	FR Water (FightR EC-1)	30/50 Premium White	4	4	4	75.2	2497.24	2607.51	13068110.34	
17	Pre-Flush	FR Water (FightR EC-1)		0	0	0	82.23	2809.41	2847.42	13070919.75	
18	Flush	FR Water (FightR EC-1)		0	0	0	63.6	12108.79	12108.76	13083028.54	
34	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.71	535.23	535.23	13083563.77

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
34	3	Acid	15% HCl		0	0	0	10.04	994.23	994.22	13084558
	4	Pad	FR Water (FightR EC-1)		0	0	0	10.4	316.33	316.33	13084874.33
	5	Pad	Hybor G 25#		0	0	0	21.72	199.43	199.43	13085073.76
	6	Pad	FR Water (FightR EC-1)		0	0	0	44.13	24674.28	24674.33	13109748.04
	7	Pad	Hybor G 25#		0	0	0	89.56	15008.94	15008.98	13124756.98
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	86.93	29651.83	30861.9	13154408.81
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	86.97	26590.94	29093.2	13180999.75
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.45	280387.69	287118.45	13461387.44
	11	Flush	FR Water (FightR EC-1)		0	0	0	87.66	6428.32	6444.39	13467815.76
	12	Flush	FR Water (FightR EC-1)		0	0	0	54.6	11691.4	11691.44	13479507.16
35	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.93	614.21	614.19	13480121.37
	3	Acid	15% HCl		0	0	0	9.86	996.26	996.22	13481117.63
	4	Pad	FR Water (FightR EC-1)		0	0	0	21.99	8218.14	8218.19	13489335.77
	5	Pad	Hybor G 25#		0	0	0	82.47	22668.64	22668.7	13512004.41
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.7	36968.1	38744.02	13548972.51
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.21	9205.4	10240.99	13558177.91
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.12	316425.57	323893.66	13874603.48
	9	Pre-Flush	FR Water (FightR EC-1)		0	0	0	84.96	2624.18	2638.68	13877227.66
	10	Flush	FR Water (FightR EC-1)		0	0	0	62.58	11118.74	11118.73	13888346.4
	36	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.75	1009.32	1009.31
3		Acid	15% HCl		0	0	0	10.14	996.72	996.72	13890352.44
4		Pad	FR Water (FightR EC-1)		0	0	0	10.13	243.49	243.48	13890595.93

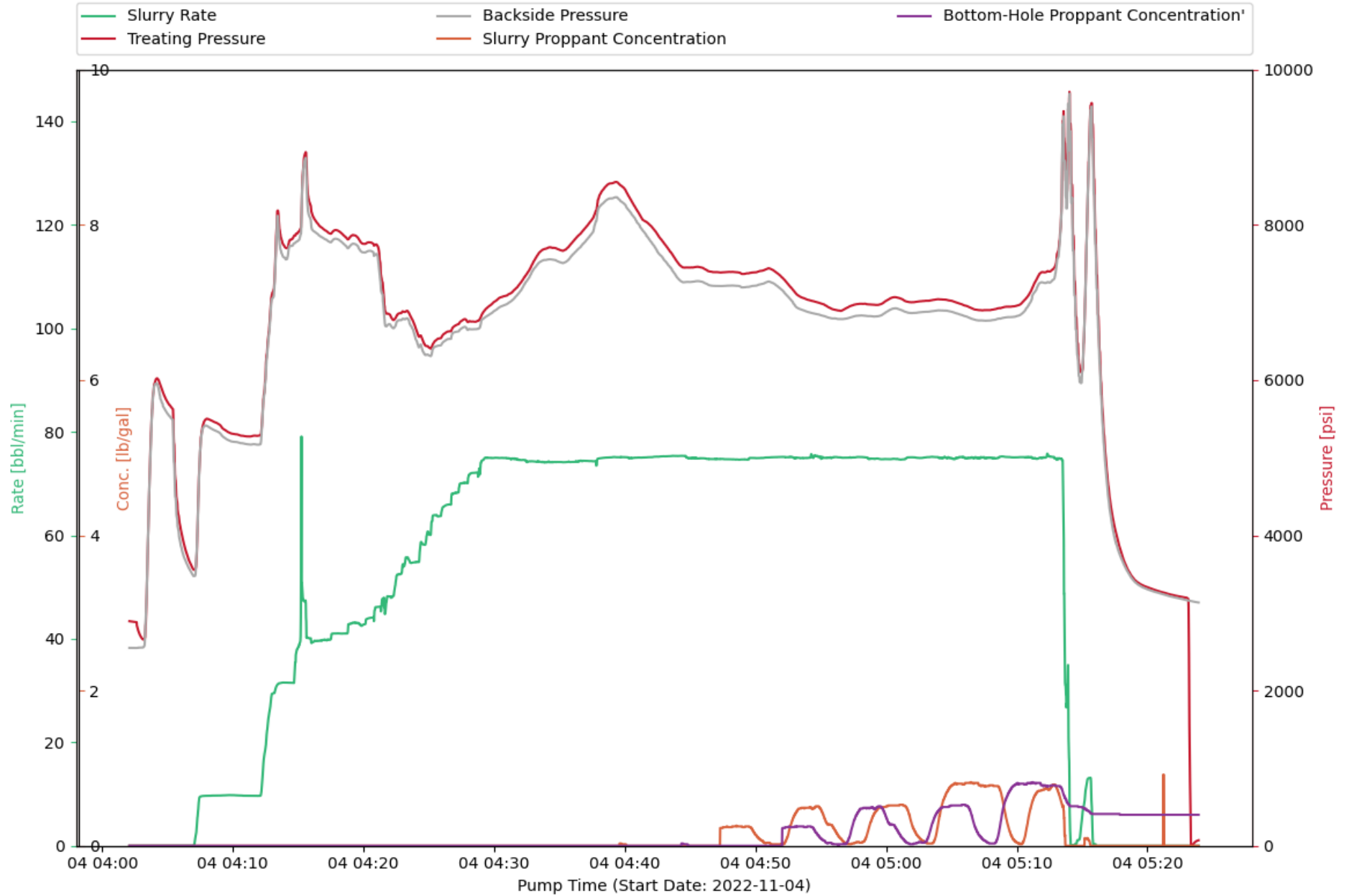
ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
36	5	Pad	Hybor G 25#		0	0	0	10.93	185.68	185.68	13890781.61
	6	Pad	FR Water (FightR EC-1)		0	0	0	55.52	39226.32	39226.33	13930007.93
	7	Pad	Hybor G 25#		0	0	0	89.86	2860.87	2860.86	13932868.8
	8	Pad	FR Water (FightR EC-1)		0	0	0	90.05	6875.47	6875.46	13939744.27
	9	Pad	Hybor G 25#		0	0	0	89.78	15491.9	15491.96	13955236.17
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.78	29754.86	30958.05	13984991.03
	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.23	28512.28	31196.14	14013503.31
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.62	70323.37	72123.31	14083826.68
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.6	0.6	0.6	89.25	184159.31	189320.96	14267985.99
	14	Flush	FR Water (FightR EC-1)		0	0	0	89.26	3614.11	3660.2	14271600.1
	15	Flush	FR Water (FightR EC-1)		0	0	0	59.35	11501.48	11501.47	14283101.58
37	2	Breakdown	FR Water (FightR EC-1)		0	0	0	3.62	356.87	356.87	14283458.45
	3	Acid	15% HCl		0	0	0	10.09	999.2	999.2	14284457.65
	4	Pad	FR Water (FightR EC-1)		0	0	0	23.02	2690.6	2690.6	14287148.25
	5	Pad	Hybor G 25#		0	0	0	28.68	1377.76	1377.76	14288526.01
	6	Pad	FR Water (FightR EC-1)		0	0	0	42.45	15618.5	15618.5	14304144.51
	7	Pad	Hybor G 25#		0	0	0	87.03	13486.1	13486.1	14317630.61
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.7	29898.47	31026.76	14347529.08
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.39	26087.79	28517.25	14373616.87
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	90.05	263054.79	269223.24	14636671.66
	11	Flush	FR Water (FightR EC-1)		0	0	0	90.23	3472.53	3509.26	14640144.19
	12	Flush	FR Water (FightR EC-1)		0	0	0	70.98	11052.5	11052.5	14651196.69

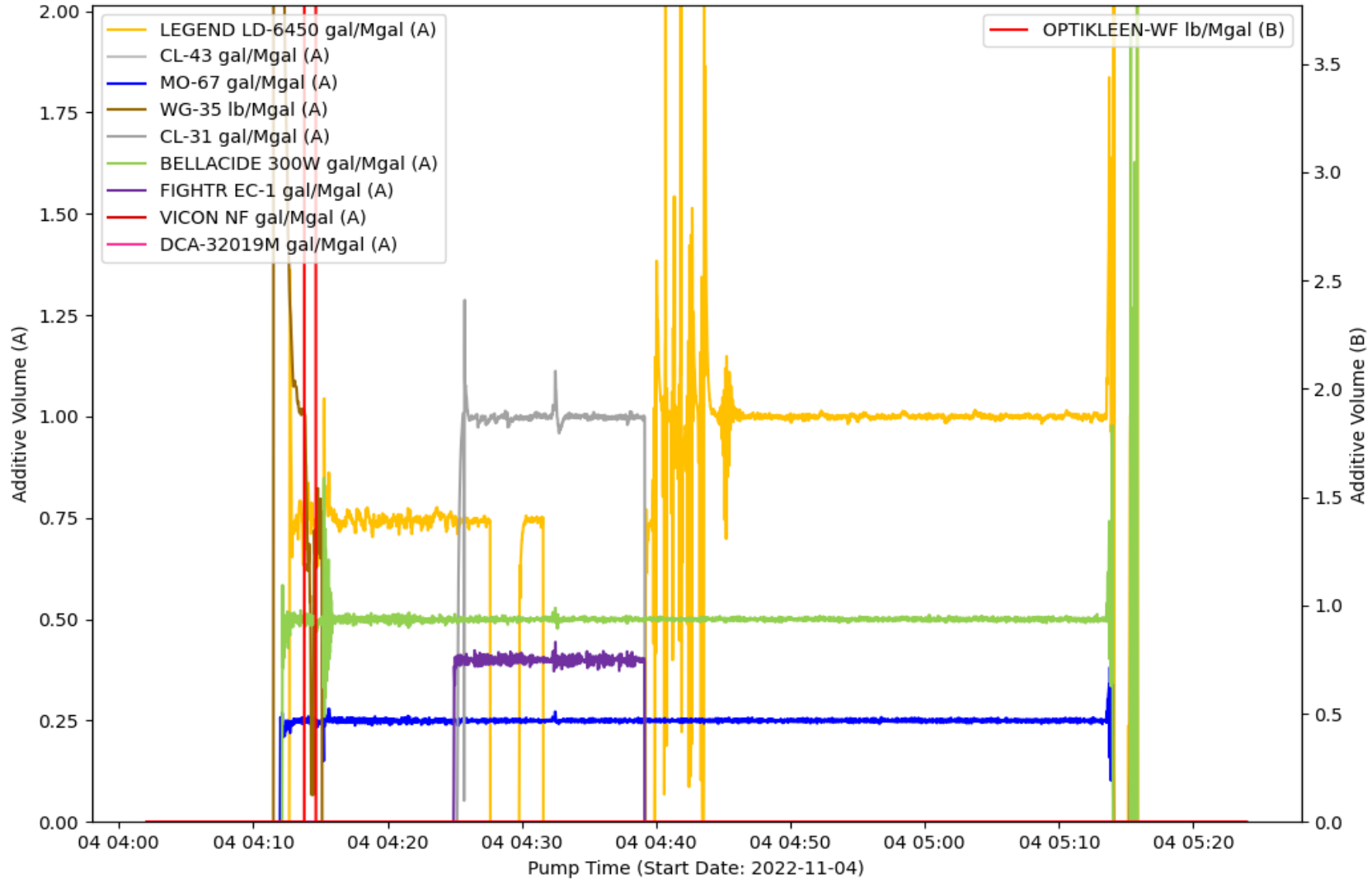
ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
38	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.87	663.21	663.21	14651859.9
	3	Acid	15% HCl		0	0	0	9.81	992.28	992.27	14652852.18
	4	Pad	FR Water (FightR EC-1)		0	0	0	13.02	351.86	351.86	14653204.04
	5	Pad	Hybor G 25#		0	0	0	27.96	217.64	217.64	14653421.68
	6	Pad	FR Water (FightR EC-1)		0	0	0	46.04	26596.48	26596.56	14680018.16
	7	Pad	Hybor G 25#		0	0	0	90.61	10702.2	10702.2	14690720.36
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.55	29871.02	31148.62	14720591.38
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.93	4769.87	5212.35	14725361.25
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.7	20433.08	22196.51	14745794.33
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	86.95	92125.46	94247.67	14837919.79
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.6	0.6	0.6	84.94	178964.17	183848.75	15016883.96
	13	Pre-Flush	FR Water (FightR EC-1)		0	0	0	81.87	2024.47	2026.1	15018908.43
	14	Flush	FR Water (FightR EC-1)		0	0	0	51.37	11544.99	11544.99	15030453.42
	Total									15030453.42	15369103.89

TREATMENT PLOT : Treatment Interval 1



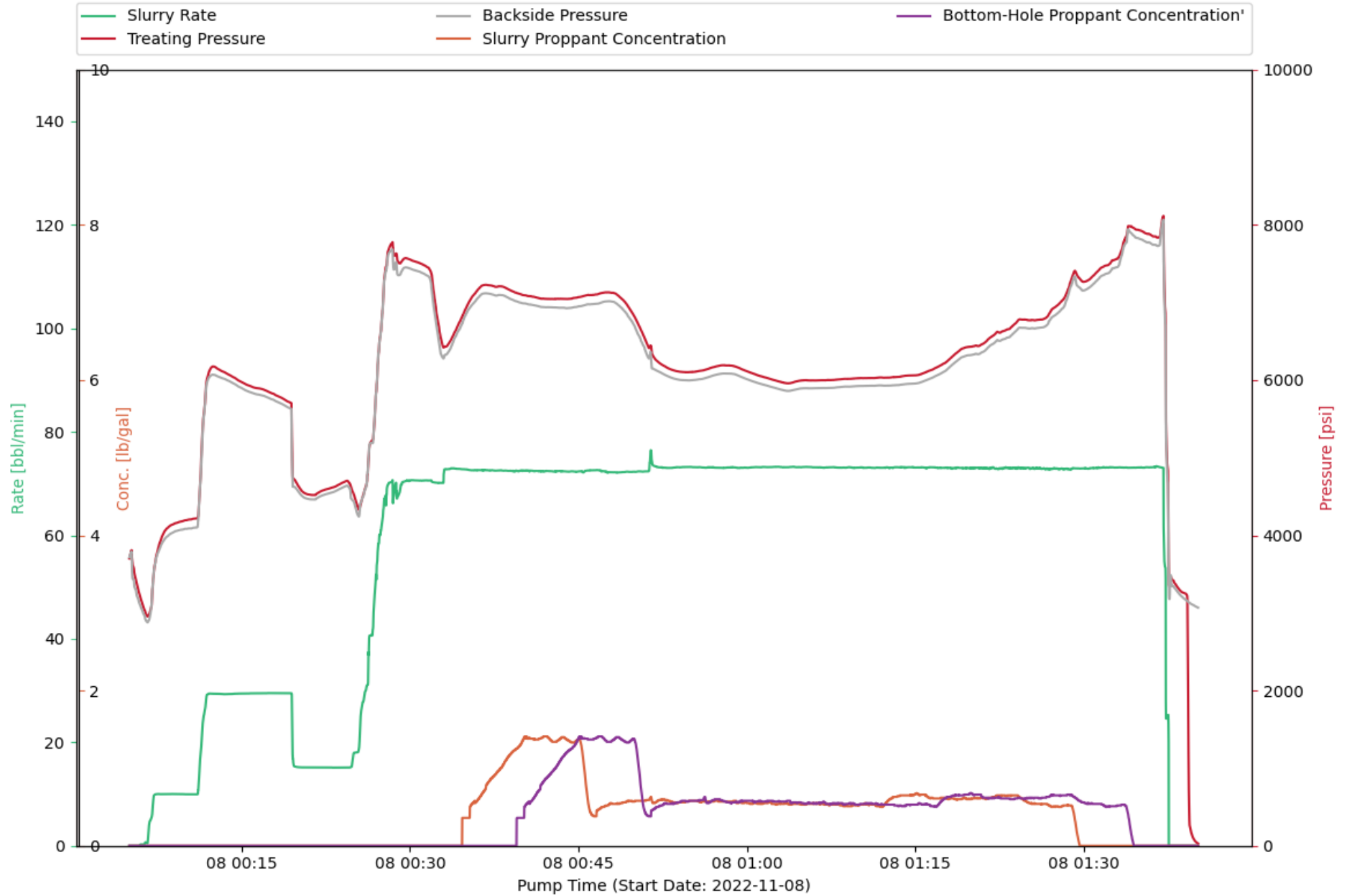
CHEMISTRY PLOT : Treatment Interval 1



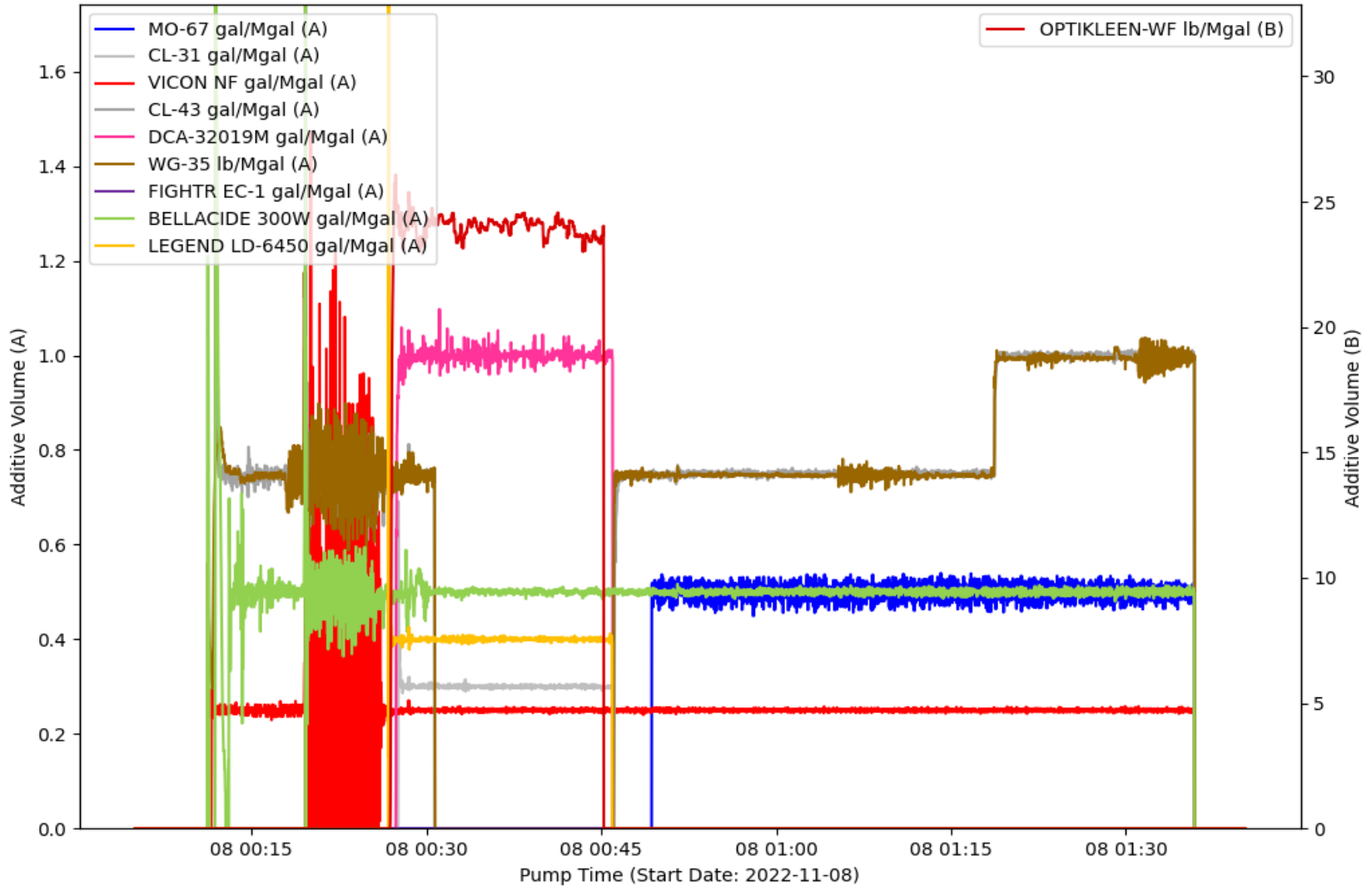
EVENT LOG : TREATMENT INTERVAL 1

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-04T04:03:05	0	2663	0	0	0	0	0
2	Start Pumping	2022-11-04T04:06:59	0.01	3557	0	0	0.22	0.22	0
3	Pump Acid	2022-11-04T04:08:06	9.67	5498	0	0	347.05	347.05	0
4	Pump Xlink Pill	2022-11-04T04:26:23	65.9	6622	0	0	28603	28603	0
5	Stop Pumping	2022-11-04T05:15:50	0.91	9245	0	0.41	176072	177466	30705
6	ISIP	2022-11-04T05:18:37	0	3523	0	0.4	176074	177467	30705
7	Shut In Well	2022-11-04T05:22:55	0	3198	0	0.4	176074	177467	30705

TREATMENT PLOT : Treatment Interval 2



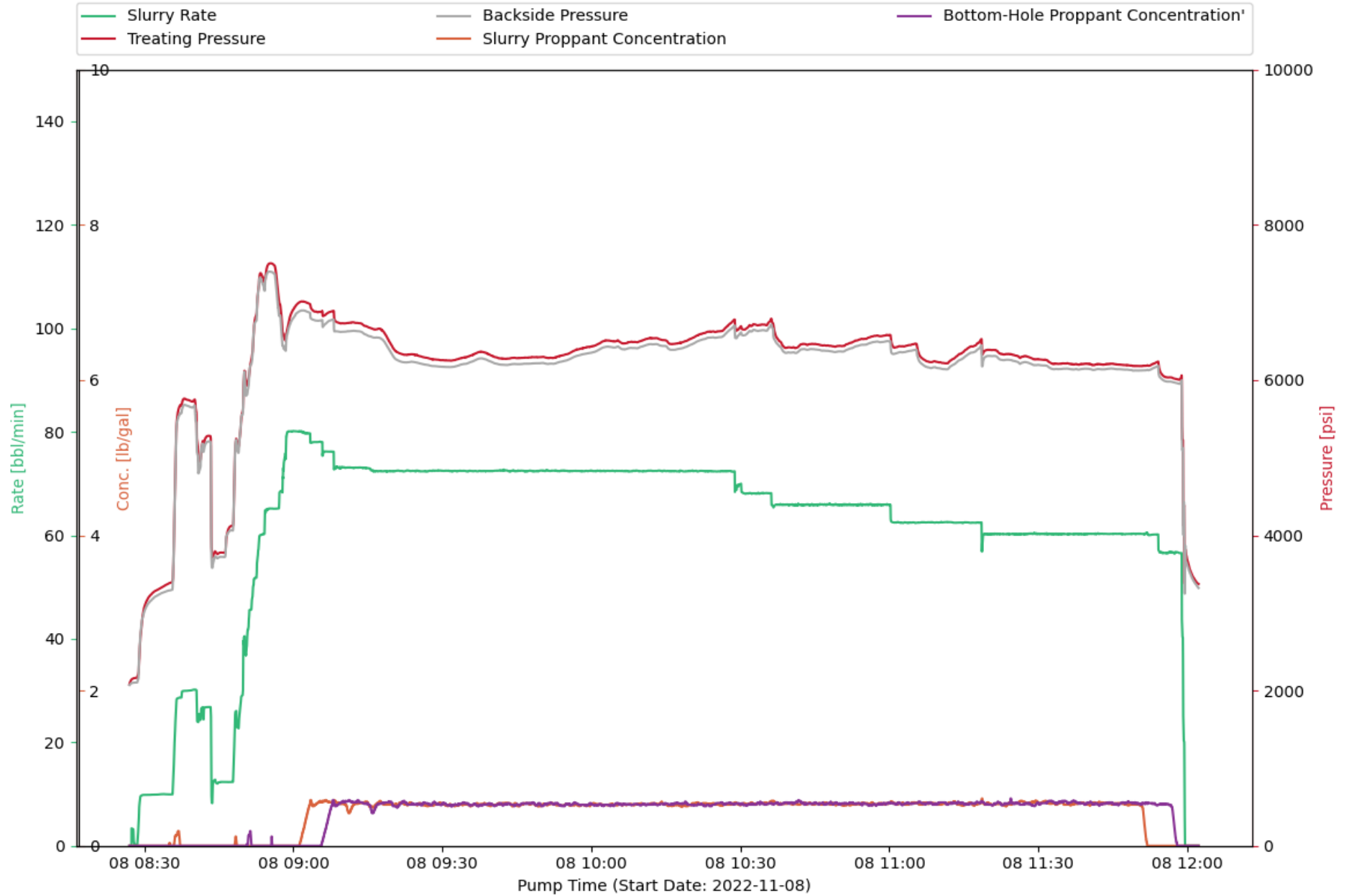
CHEMISTRY PLOT : Treatment Interval 2



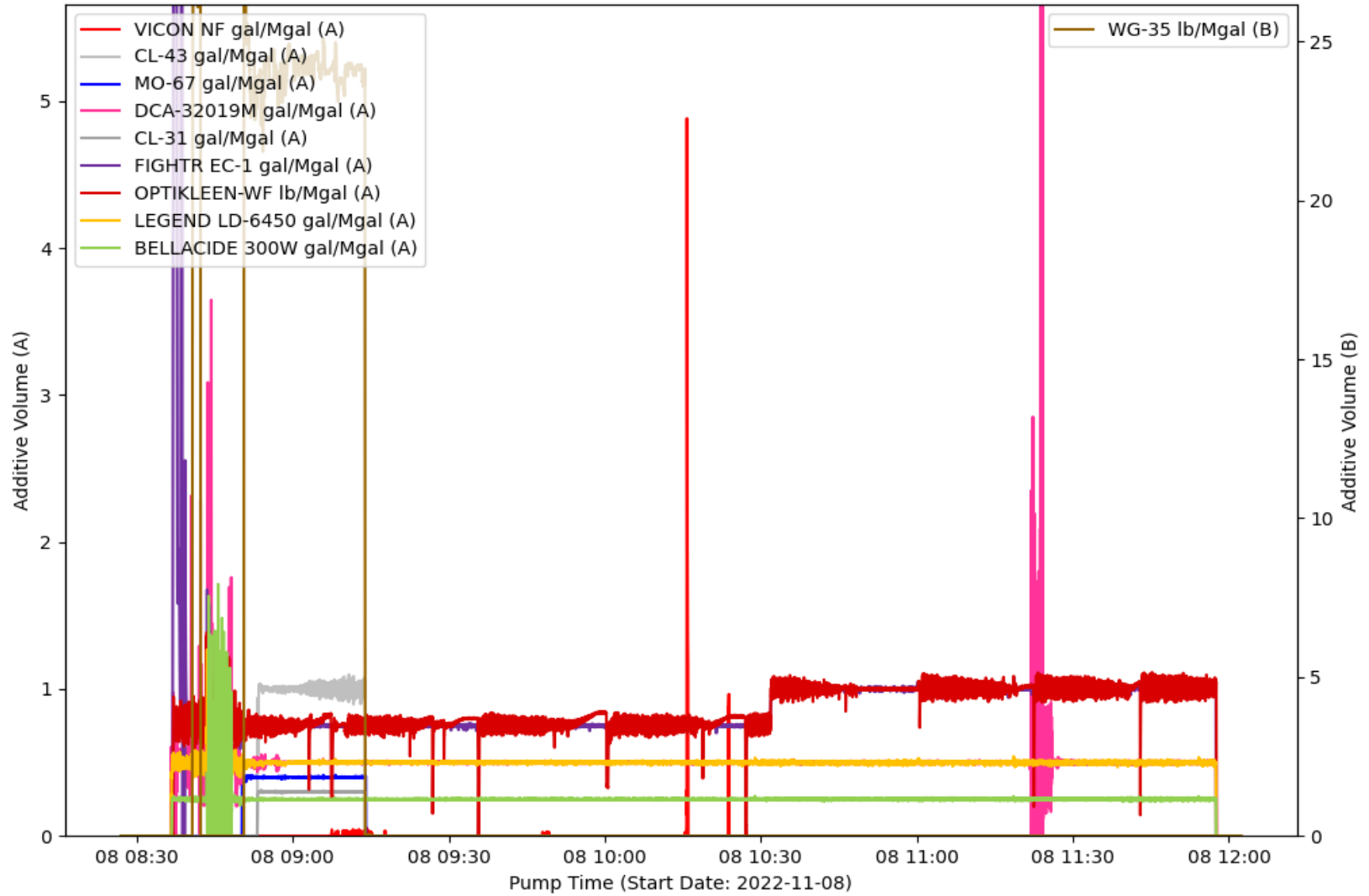
EVENT LOG : TREATMENT INTERVAL 2

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-08T00:06:00	0.26	3189	0	0	0	0	0
2	Start Pumping	2022-11-08T00:06:18	0.25	3052	0	0	3.24	3.24	0
3	Pump Acid	2022-11-08T00:07:40	10	3887	0	0	344.03	344.03	0
4	Ball on Seat	2022-11-08T00:23:40	15.13	4653	0	0	14558	14558	0
5	Break Formation	2022-11-08T00:24:30	15.14	4692	0	0	15092	15092	0
6	Pump Xlink Pill	2022-11-08T00:28:07	70.15	7692	0	0	21014	21014	0
7	Stop Pumping	2022-11-08T01:37:36	0	3516	0	0	227536	232493	109215
8	ISIP	2022-11-08T01:37:42	0	3415	0	0	227536	232493	109215
9	Shut In Well	2022-11-08T01:39:12	0	3231	0	0	227536	232493	109215

TREATMENT PLOT : Treatment Interval 3



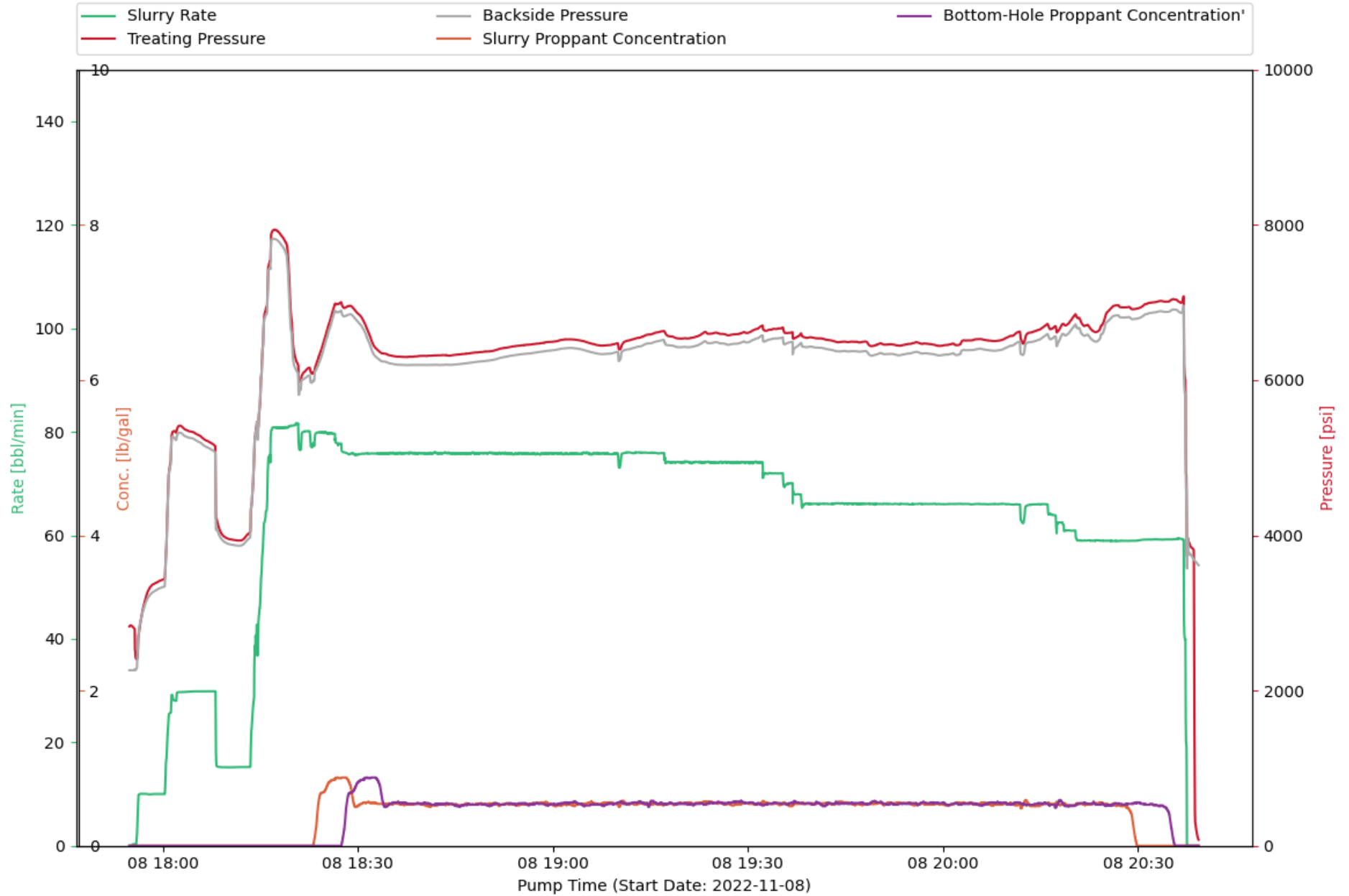
CHEMISTRY PLOT : Treatment Interval 3



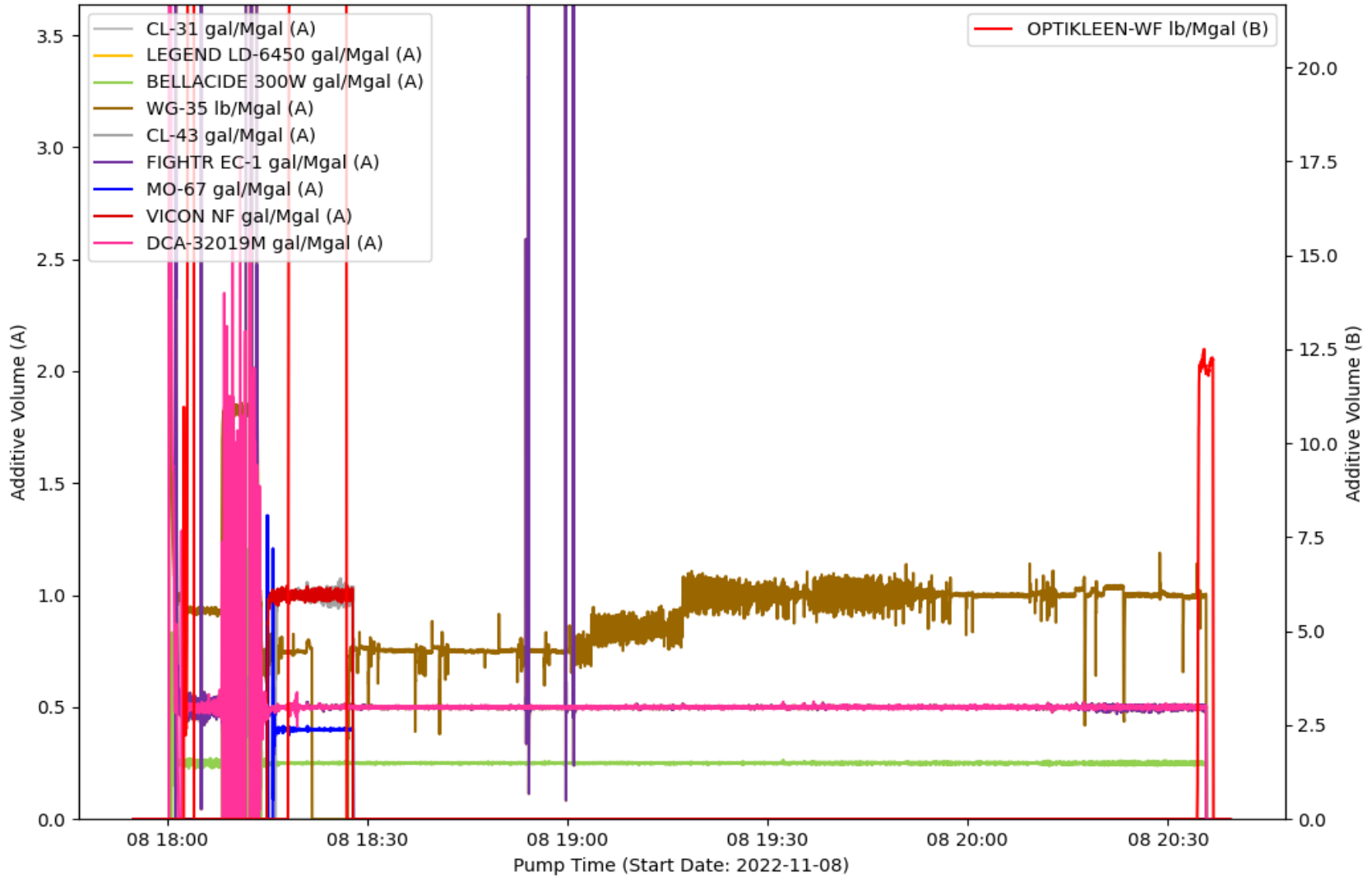
EVENT LOG : TREATMENT INTERVAL 3

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-08T08:27:09	0	2109	0	0	0	0	0
2	Start Pumping	2022-11-08T08:28:25	0.01	2164	0	0	63.07	63.07	0
3	Pump Acid	2022-11-08T08:30:58	9.84	3210	0	0	936.85	936.84	0
4	Ball on Seat	2022-11-08T08:46:16	12.35	3783	0	0	13206	13214	175.2
5	Break Formation	2022-11-08T08:47:33	12.34	4123	0	0	13869	13877	175.2
6	Pump Xlink Pill	2022-11-08T08:55:14	65.2	7504	0	0	28021	28031	208.62
7	Stop Pumping	2022-11-08T11:59:29	2.55	3375	0	0	541052	552609	254595
8	ISIP	2022-11-08T11:59:34	0	3814	0	0	541053	552611	254595
9	Shut In Well	2022-11-08T12:02:14	0	3374	0	0	541053	552611	254595

TREATMENT PLOT : Treatment Interval 4



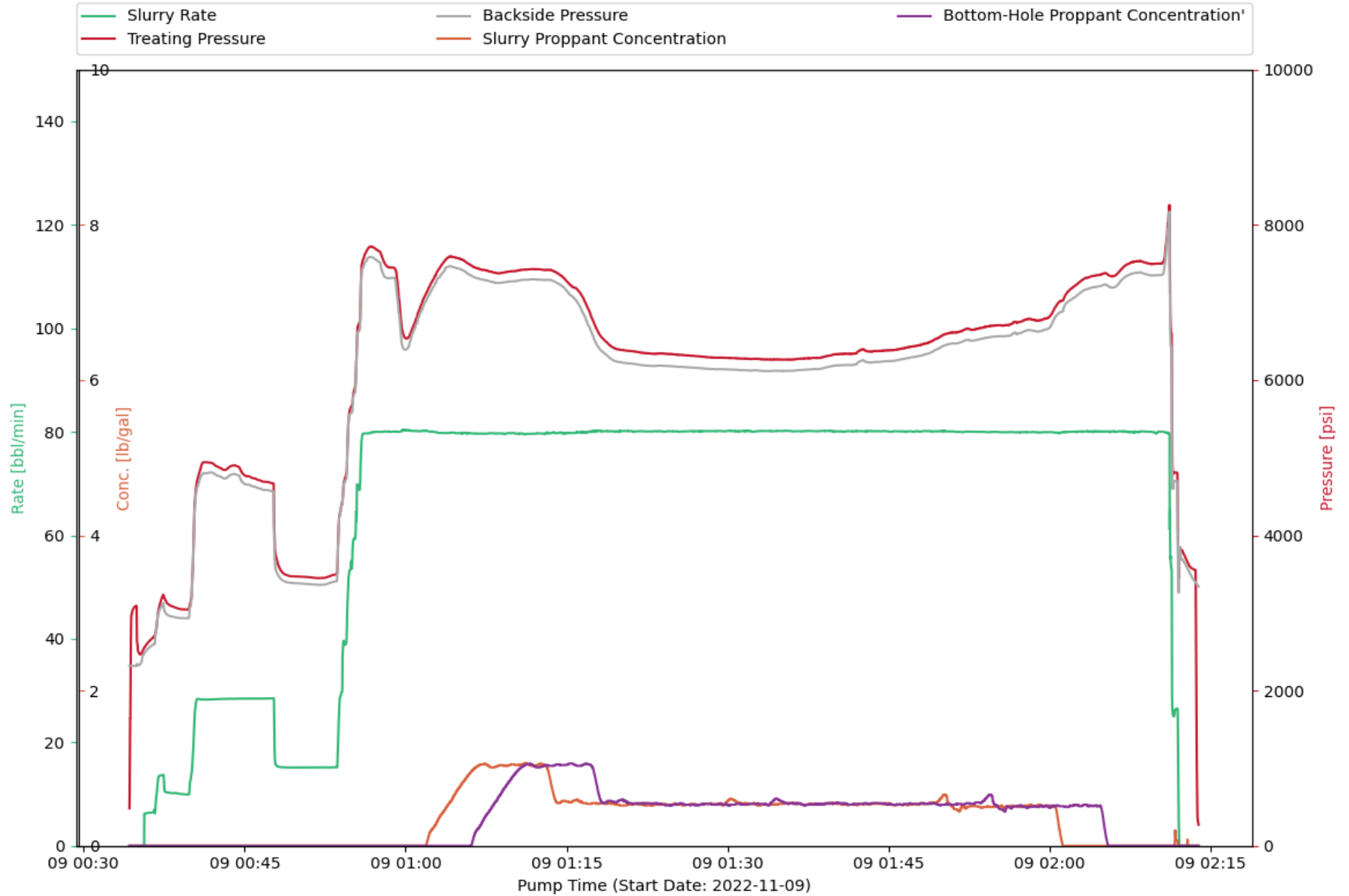
CHEMISTRY PLOT : Treatment Interval 4



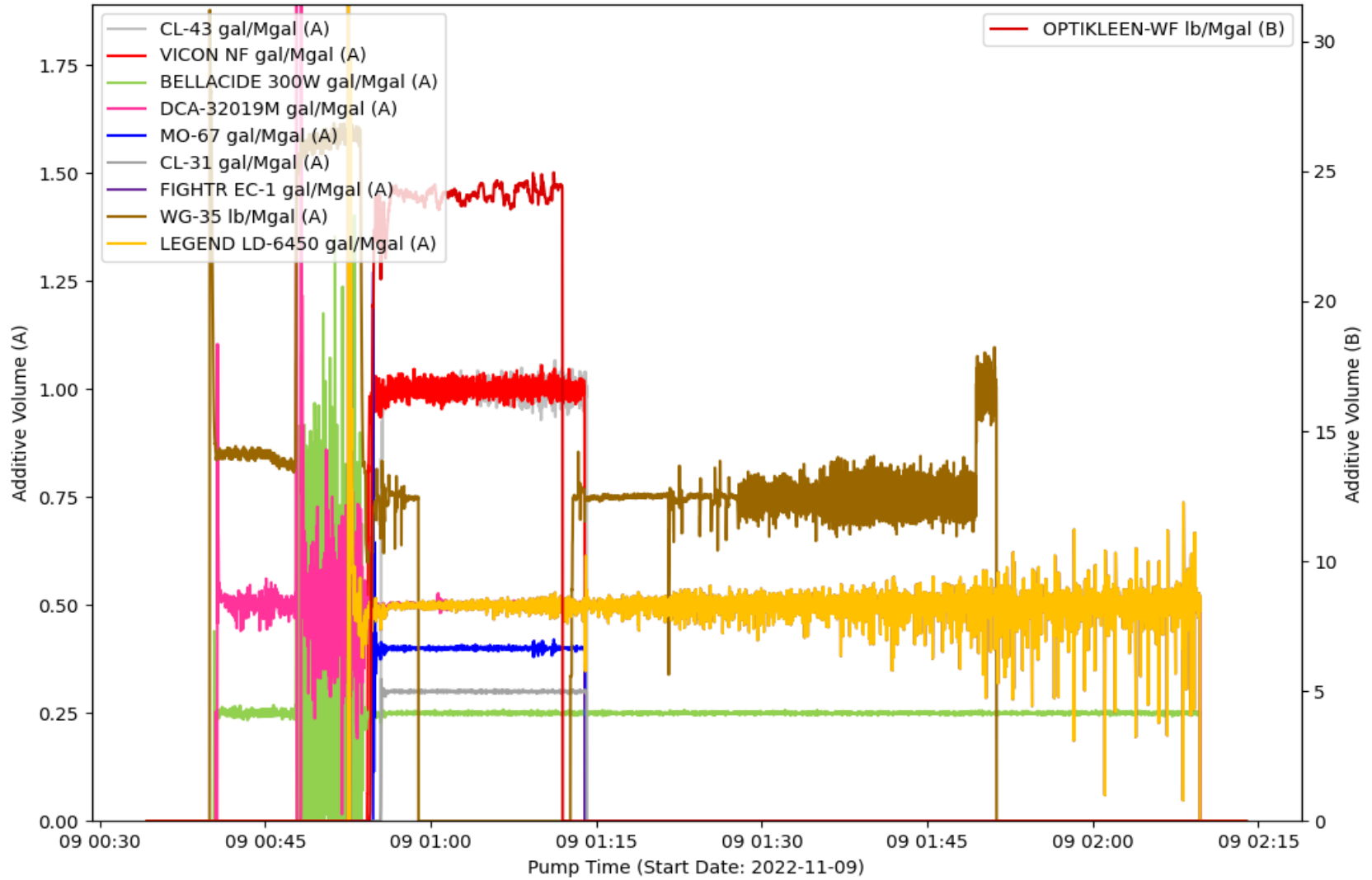
EVENT LOG : TREATMENT INTERVAL 4

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-08T17:55:54	0.26	2412	0	0	0.18	0.18	0
2	Start Pumping	2022-11-08T17:55:56	0.33	2409	0	0	0.6	0.6	0
3	Pump Acid	2022-11-08T17:57:46	9.98	3285	0	0	691.39	691.39	0
4	Ball on Seat	2022-11-08T18:12:28	15.21	3952	0	0	13910	13910	0
5	Break Formation	2022-11-08T18:13:04	15.23	4011	0	0	14297	14297	0
6	Pump Xlink Pill	2022-11-08T18:16:40	80.12	7867	0	0	21302	21302	0
7	Stop Pumping	2022-11-08T20:37:28	12.15	4022	0	0	429339	438465	201096
8	ISIP	2022-11-08T20:37:35	0	3930	0	0	429339	438465	201096
9	Shut In Well	2022-11-08T20:38:29	0	3824	0	0	429339	438465	201096

TREATMENT PLOT : Treatment Interval 5



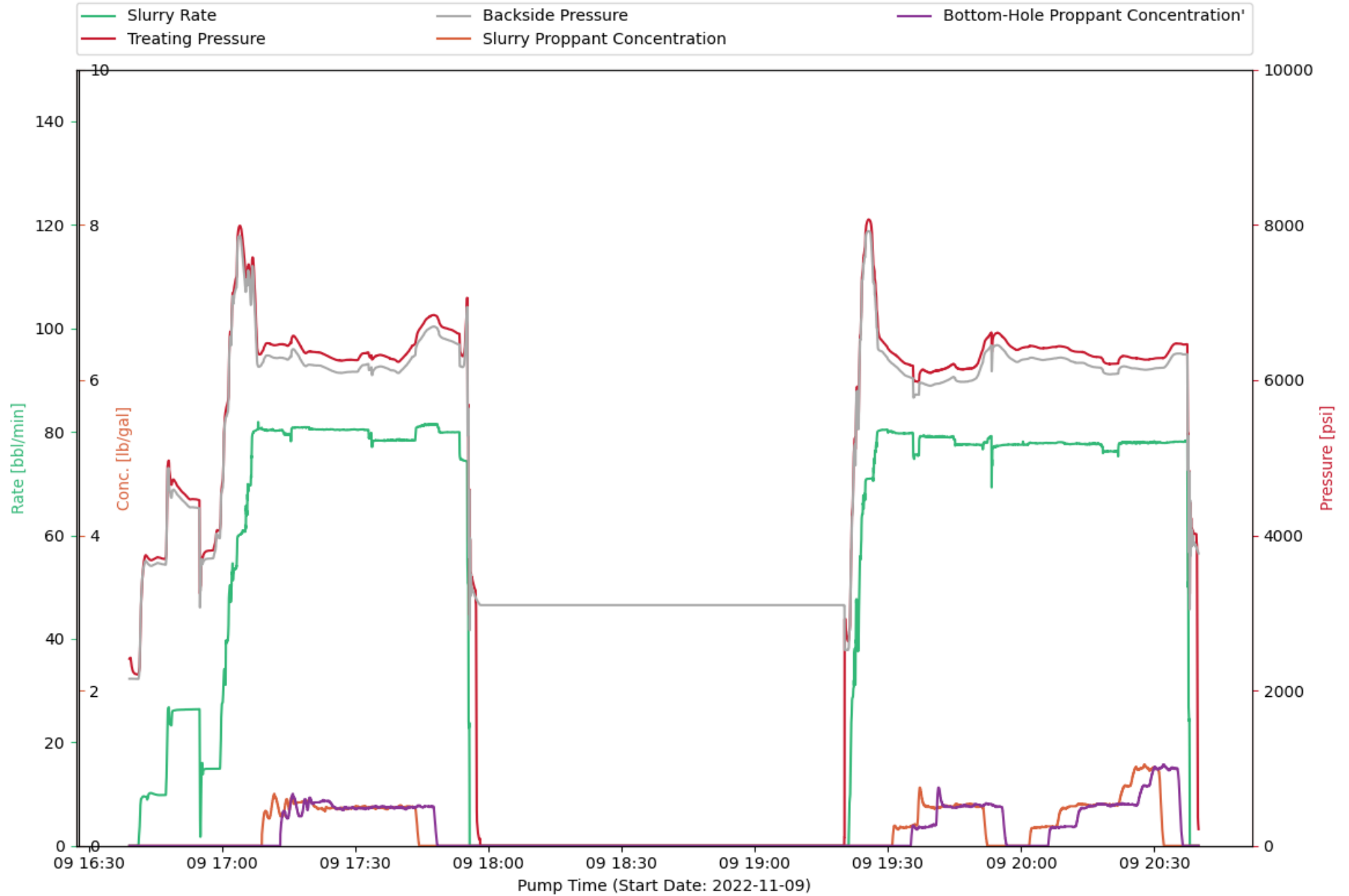
CHEMISTRY PLOT : Treatment Interval 5



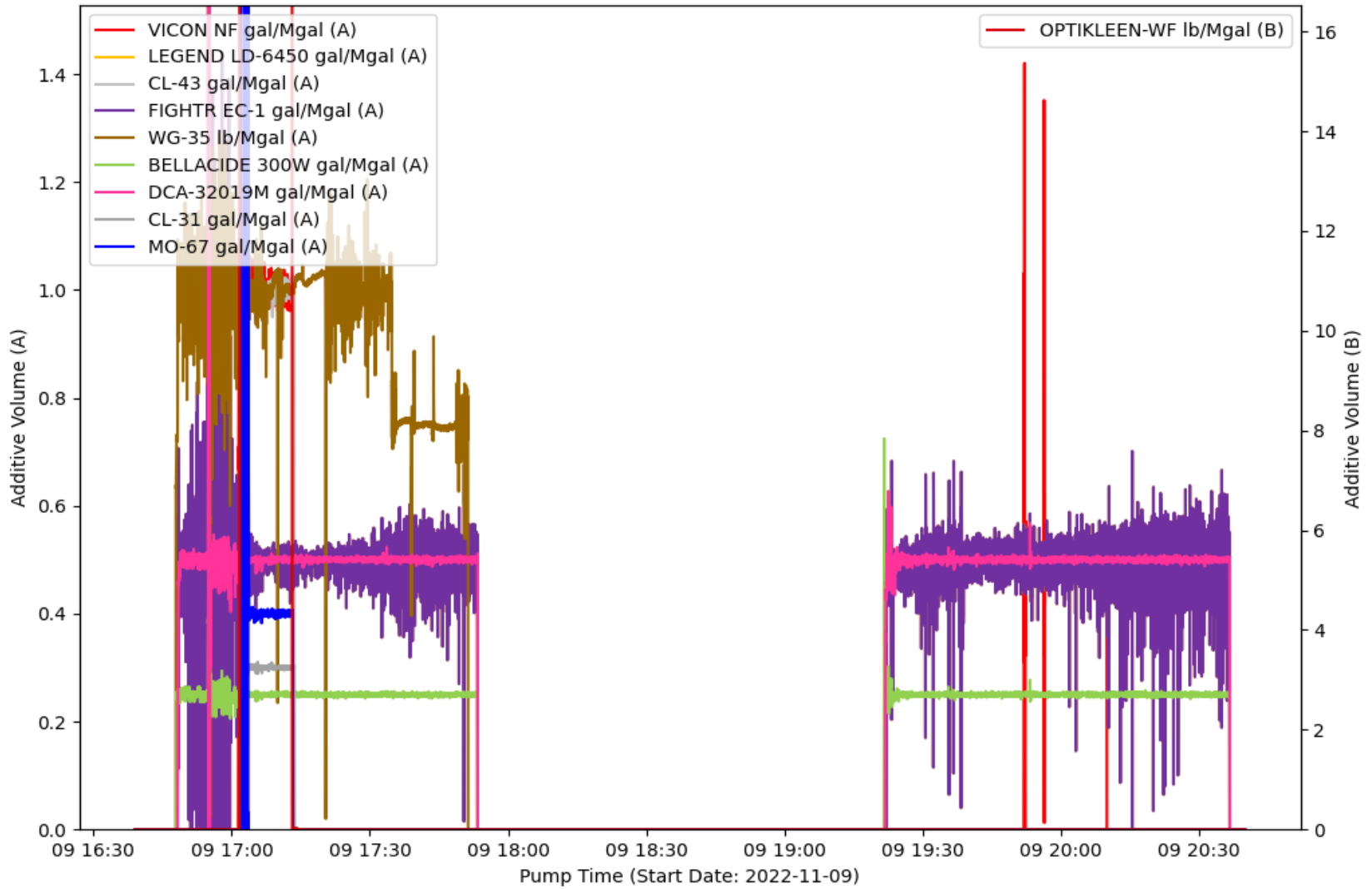
EVENT LOG : TREATMENT INTERVAL 5

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-09T00:35:16	0	2466	0	0	0	0	0
2	Start Pumping	2022-11-09T00:35:37	0	2545	0	0	0	0	0
3	Pump Acid	2022-11-09T00:37:47	10.34	3125	0	0	840.88	840.86	0
4	Ball on Seat	2022-11-09T00:52:57	15.14	3476	0	0	14205	14205	0
5	Break Formation	2022-11-09T00:53:21	15.19	3493	0	0	14452	14452	0
6	Pump Xlink Pill	2022-11-09T00:56:49	79.91	7724	0	0	22412	22412	0
7	Stop Pumping	2022-11-09T02:12:04	0	3614	0	0	268263	273488	115117
8	ISIP	2022-11-09T02:12:06	0	3831	0	0	268263	273488	115117
9	Shut In Well	2022-11-09T02:12:53	0	3645	0	0	268263	273488	115117

TREATMENT PLOT : Treatment Interval 6



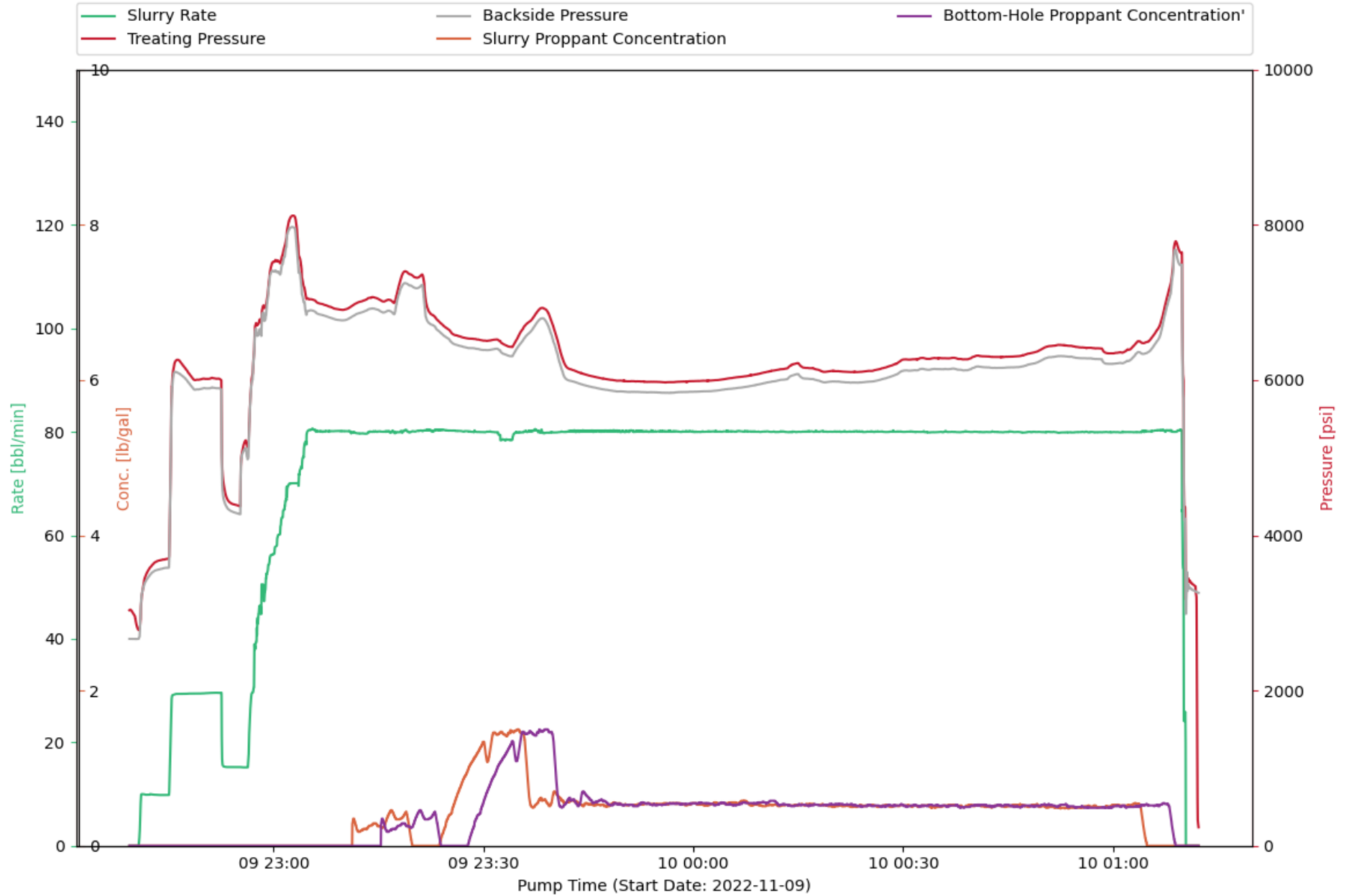
CHEMISTRY PLOT : Treatment Interval 6



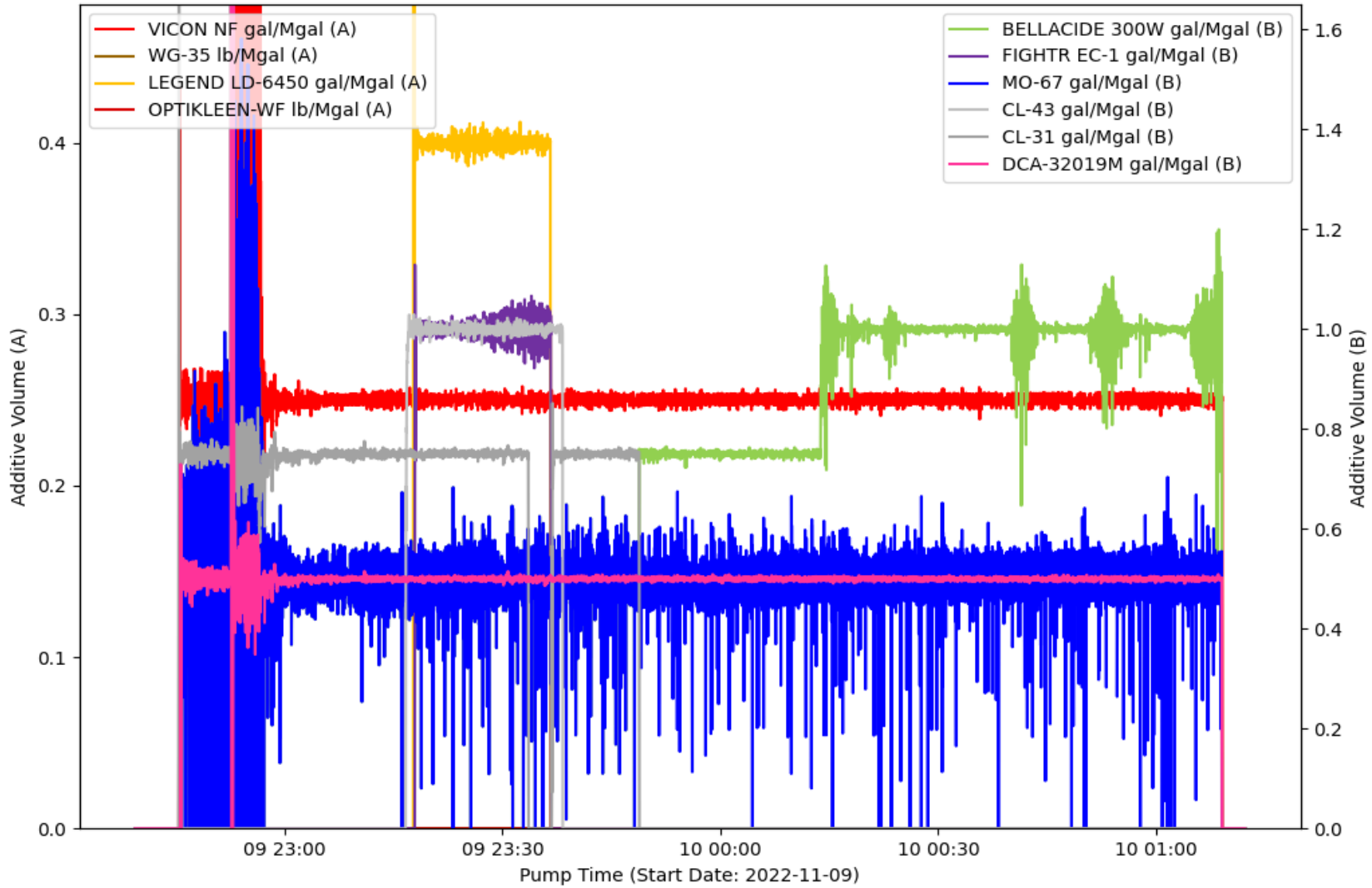
EVENT LOG : TREATMENT INTERVAL 6

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-09T16:39:32	0	2301	0	0	0	0	0
2	Start Pumping	2022-11-09T16:40:54	0.01	2205	0	0	0.12	0.12	0
3	Pump Acid	2022-11-09T16:43:31	10.15	3690	0	0	880.49	880.49	0
4	Ball on Seat	2022-11-09T16:57:55	14.89	3811	0	0	12405	12405	0
5	Break Formation	2022-11-09T16:59:01	14.87	4061	0	0	13099	13099	0
6	Pump Xlink Pill	2022-11-09T17:04:57	60.85	7531	0	0	24397	24397	0
7	Cutting sand water transfer pump down	2022-11-09T17:43:18	78.36	6460	0.5	0.5	149573	152129	56301
8	Stop Pumping	2022-11-09T17:55:40	0	2975	0	0	189987	192585	57229
9	Shut well and role pumps	2022-11-09T17:57:04	0	3145	0	0	189987	192585	57229
10	Suspending Job	2022-11-09T17:58:04	0	0	0	0	189987	192585	57229
11	Resuming Job	2022-11-09T19:20:07	0	0	0	0	189987	192585	57229
12	Open Well	2022-11-09T19:21:00	0	2633	0	0	189987	192585	57229
13	Start Pumping	2022-11-09T19:21:06	0	2647	0	0	189987	192585	57229
14	15# Gel sweep	2022-11-09T19:52:16	77.89	6539	0.04	0.54	285134	289088	87097
15	Stop Pumping	2022-11-09T20:38:00	10.77	3247	0	0	430913	437349	141766
16	ISIP	2022-11-09T20:38:03	0	3897	0	0	430913	437349	141766
17	Shut In Well	2022-11-09T20:39:35	0	3907	0	0	430913	437349	141766

TREATMENT PLOT : Treatment Interval 7



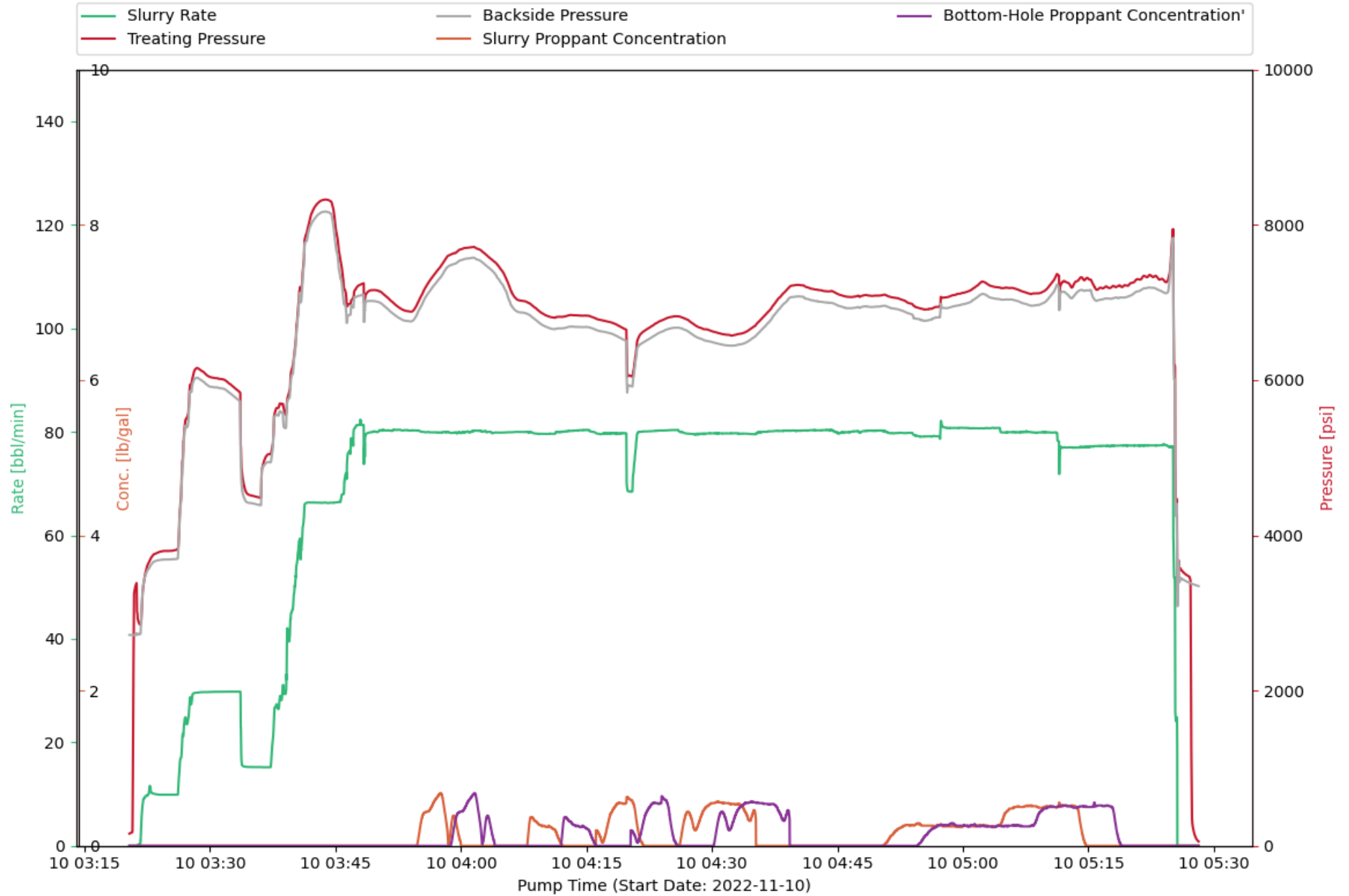
CHEMISTRY PLOT : Treatment Interval 7



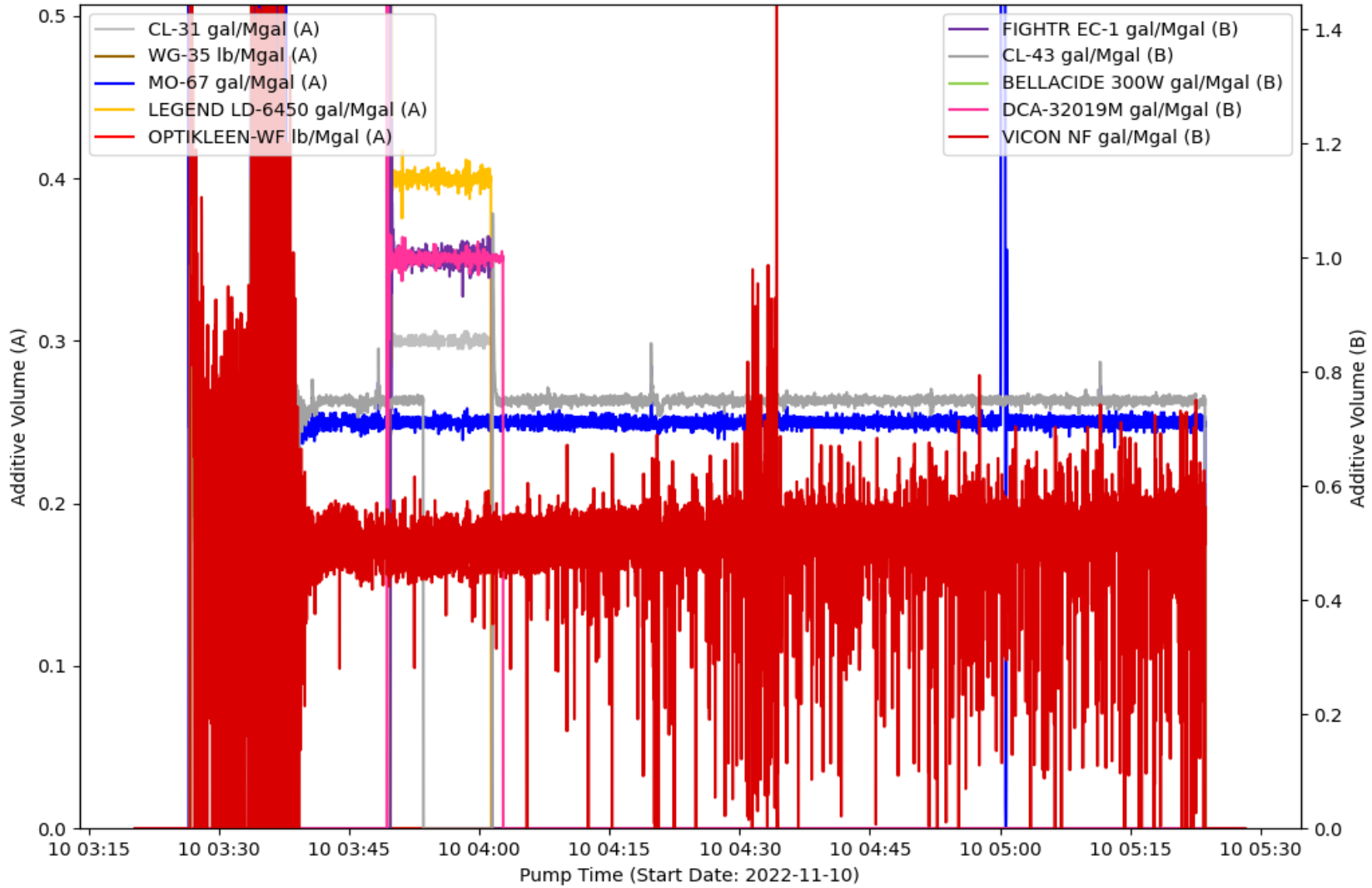
EVENT LOG : TREATMENT INTERVAL 7

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-09T22:40:24	0	2849	0	0	0	0	0
2	Start Pumping	2022-11-09T22:40:43	0	2780	0	0	0	0	0
3	Pump Acid	2022-11-09T22:42:21	9.99	3585	0	0	600.03	600.03	0
4	Ball on Seat	2022-11-09T22:55:13	15.22	4374	0	0	12551	12551	0
5	Break Formation	2022-11-09T22:56:10	15.15	5180	0	0	13152	13152	0
6	Pump Xlink Pill	2022-11-09T23:18:24	79.89	7361	0.36	0.29	79103	79418	6930
7	Stop Pumping	2022-11-10T01:10:23	19.77	3619	0	0	445640	454870	203378
8	ISIP	2022-11-10T01:10:29	0	3290	0	0	445640	454870	203378
9	Shut In Well	2022-11-10T01:11:45	0	3345	0	0	445640	454870	203378

TREATMENT PLOT : Treatment Interval 8



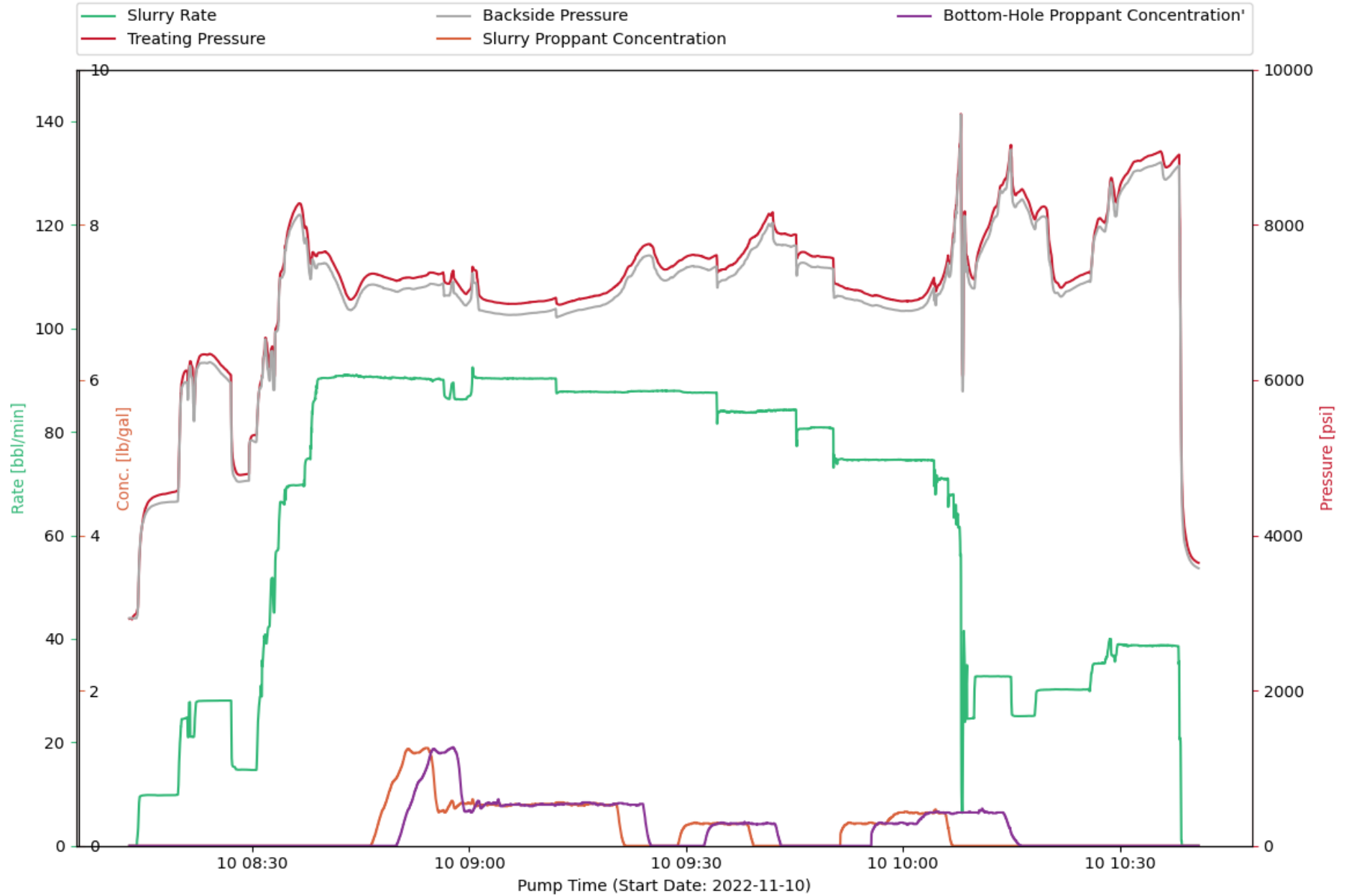
CHEMISTRY PLOT : Treatment Interval 8



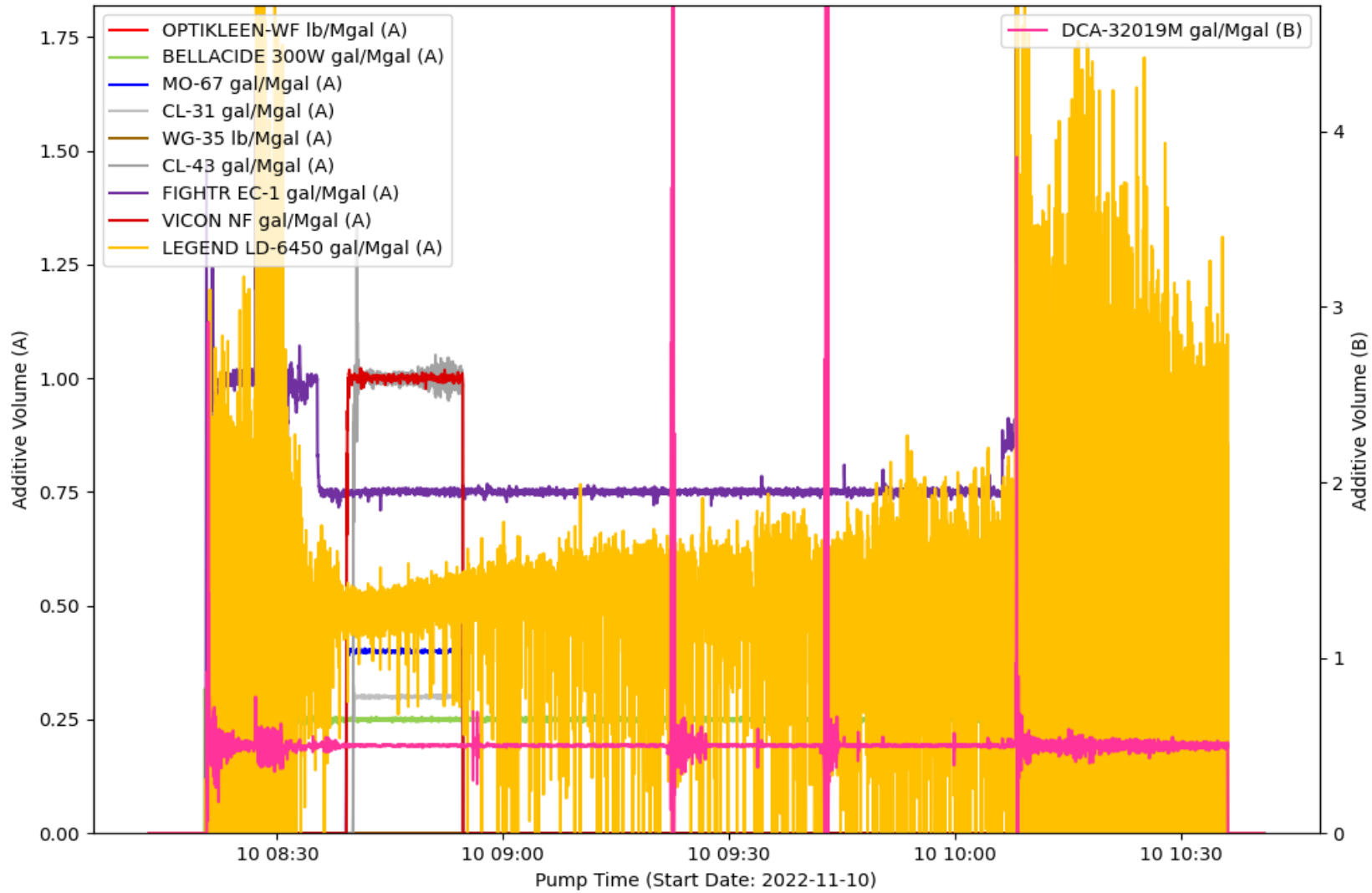
EVENT LOG : TREATMENT INTERVAL 8

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Start Avg Trt 8	2022-11-10T03:21:07	0	3358	0	0	0	0	0
2	Open Well	2022-11-10T03:21:22	0	2918	0	0	0	0	0
3	Start Pumping	2022-11-10T03:21:39	0.27	2849	0	0	2.76	2.76	0
4	Pump Acid	2022-11-10T03:23:38	9.95	3773	0	0	765.34	765.34	0
5	Ball on Seat	2022-11-10T03:36:05	15.22	4484	0	0	12203	12203	0
6	Break Formation	2022-11-10T03:36:59	15.19	5046	0	0	12783	12783	0
7	Pump Xlink Pill	2022-11-10T03:50:07	80.04	7149	0	0	46456	46456	0
8	Stop Pumping	2022-11-10T05:25:38	0	3444	0	0	361916	364460	56042
9	ISIP	2022-11-10T05:25:43	0	3491	0	0	361916	364460	56042
10	Shut In Well	2022-11-10T05:27:10	0	3434	0	0	361916	364460	56042

TREATMENT PLOT : Treatment Interval 9



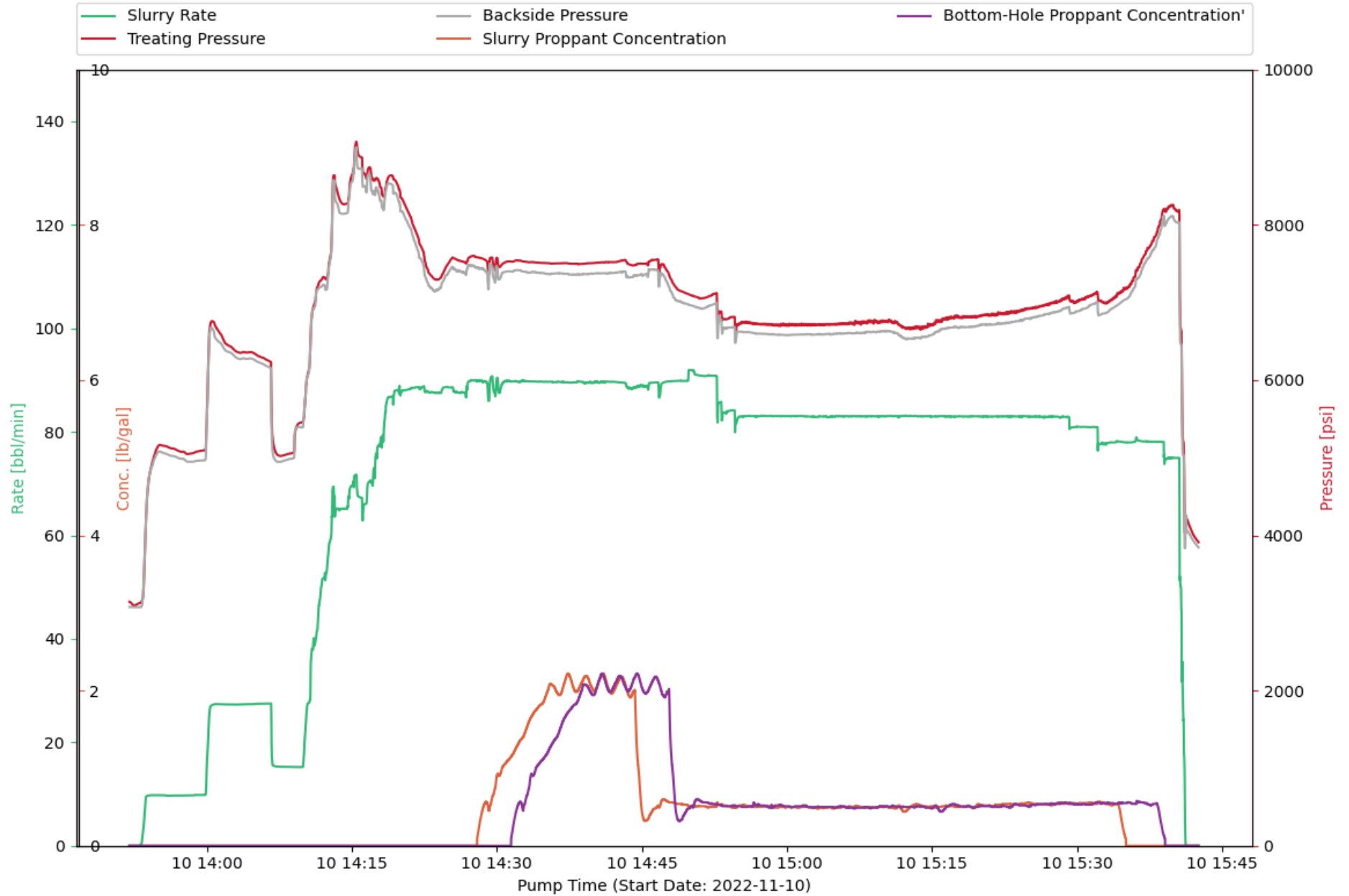
CHEMISTRY PLOT : Treatment Interval 9



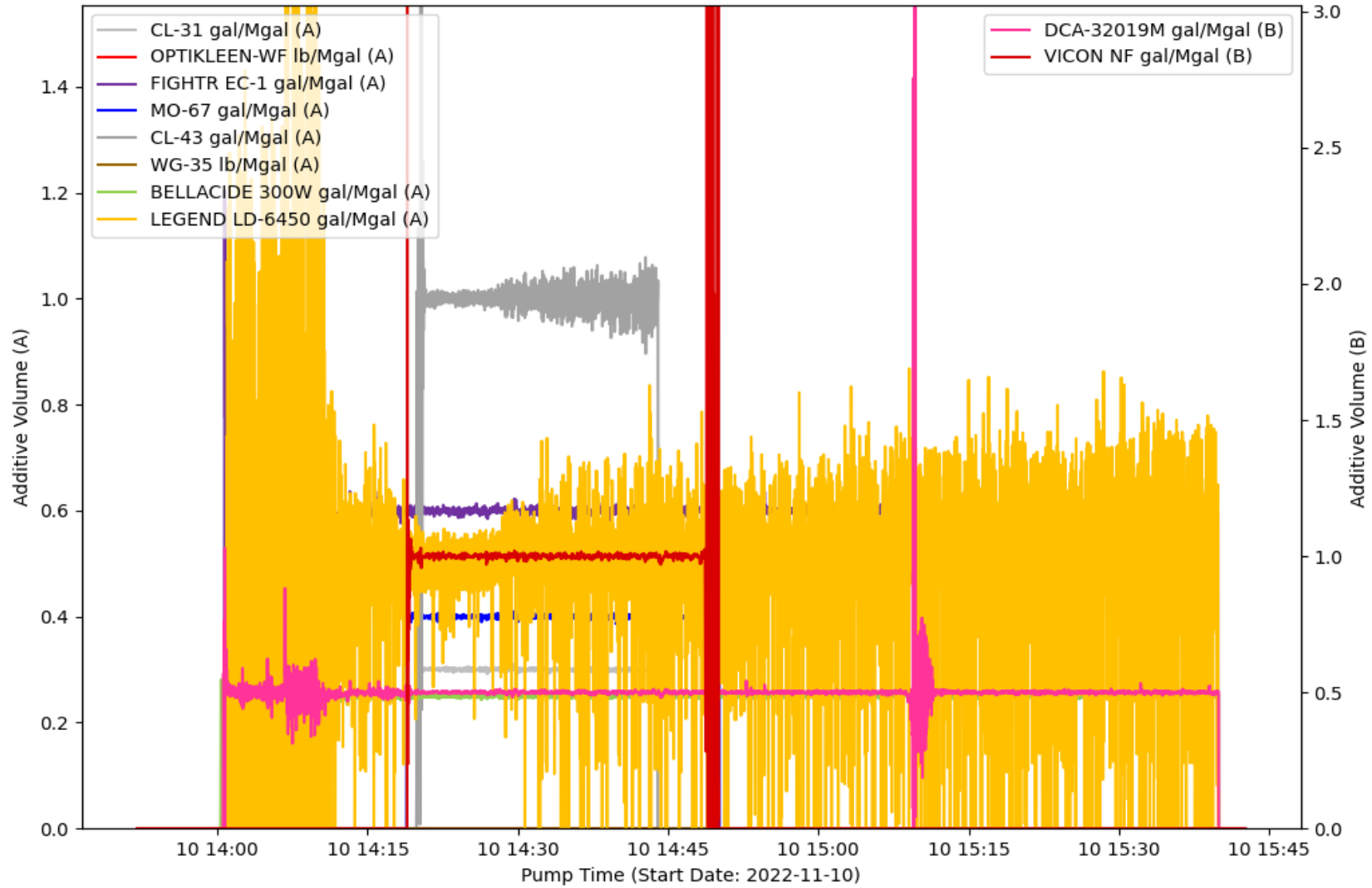
EVENT LOG : TREATMENT INTERVAL 9

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Start Avg Trt 9	2022-11-10T08:13:39	0	2968	0	0	0	0	0
2	Open Well	2022-11-10T08:13:47	0	2981	0	0	0	0	0
3	Start Pumping	2022-11-10T08:13:58	0	2993	0	0	0	0	0
4	Pump Acid	2022-11-10T08:16:36	9.79	4502	0	0	982.19	982.24	0
5	Ball on Seat	2022-11-10T08:29:31	14.7	4791	0	0	11900	11900	0
6	Break Formation	2022-11-10T08:30:30	14.65	5291	0	0	12502	12502	0
7	Pump Xlink Pill	2022-11-10T08:42:24	90.83	7263	0	0	47107	47107	0
8	Stop Pumping	2022-11-10T10:38:32	0.88	5097	0	0	388540	393251	103781
9	ISIP	2022-11-10T10:38:50	0	4193	0	0	388541	393252	103781
10	Shut In Well	2022-11-10T10:40:53	0	3646	0	0	388541	393252	103781

TREATMENT PLOT : Treatment Interval 10



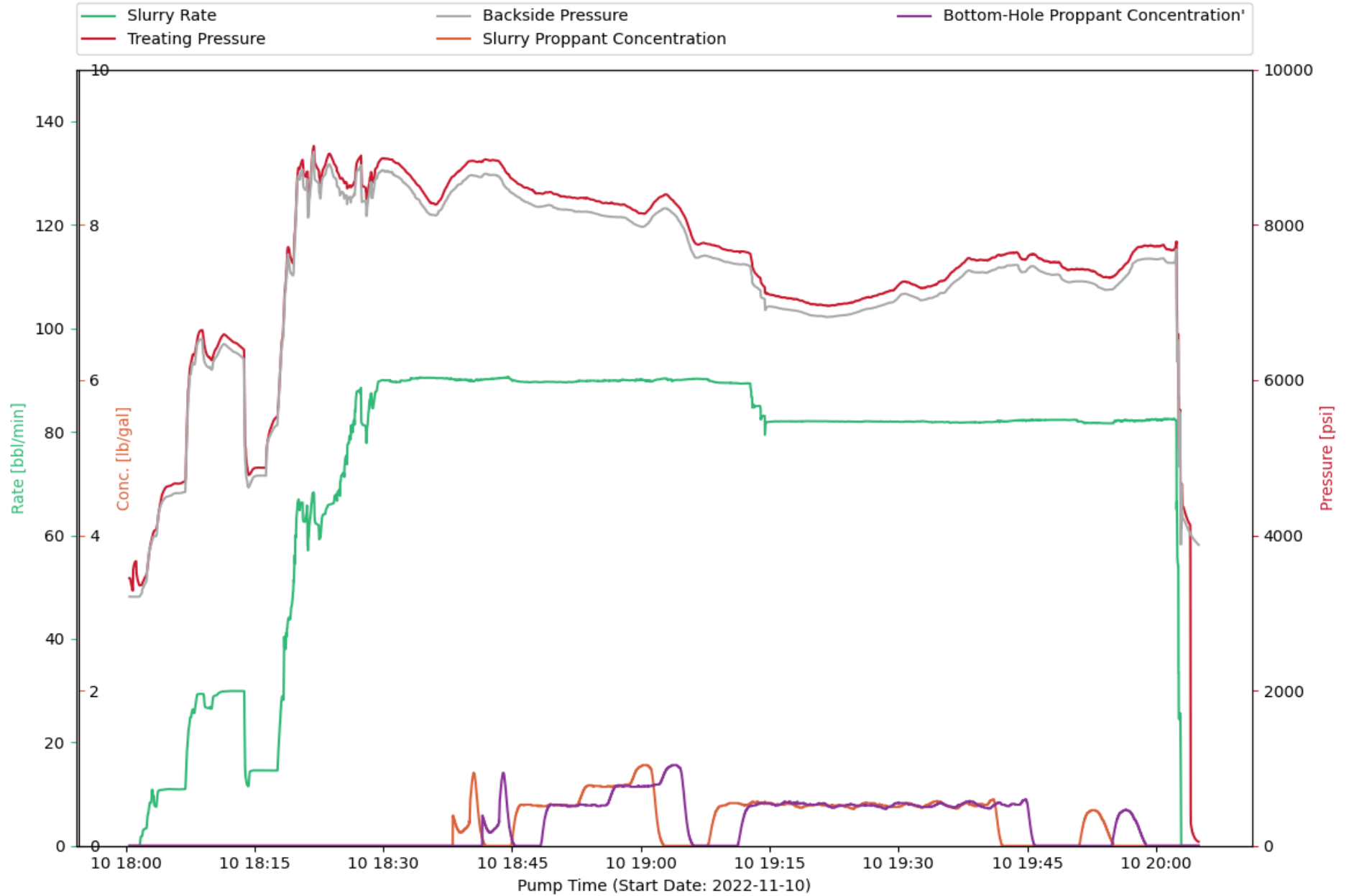
CHEMISTRY PLOT : Treatment Interval 10



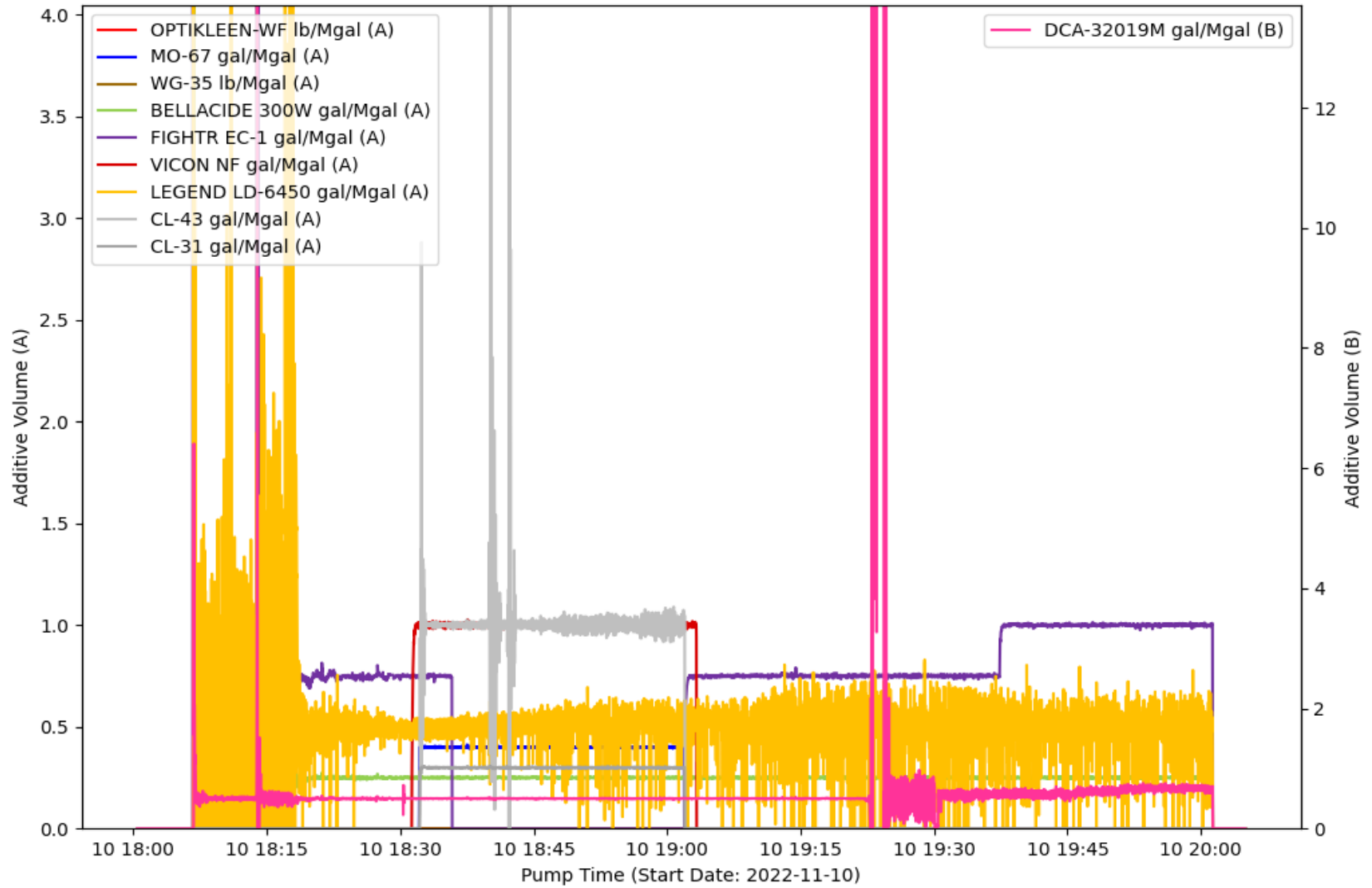
EVENT LOG : TREATMENT INTERVAL 10

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-10T13:52:40	0	3103	0	0	0	0	0
2	Start Pumping	2022-11-10T13:53:09	0.19	3129	0	0	0.52	0.52	0
3	Pump Acid	2022-11-10T13:56:09	9.68	5128	0	0	1088	1088	0
4	Ball on Seat	2022-11-10T14:09:01	15.25	5072	0	0	11797	11797	0
5	Break Formation	2022-11-10T14:10:09	21.15	5703	0	0	12544	12544	0
6	Pump Xlink Pill	2022-11-10T14:21:29	88.52	7956	0	0	44935	44935	0
7	Stop Pumping	2022-11-10T15:41:07	16.52	4463	0	0	319389	327766	184554
8	ISIP	2022-11-10T15:41:13	1.39	4051	0	0	319420	327797	184554
9	Shut In Well	2022-11-10T15:42:34	0	3915	0	0	319421	327798	184554

TREATMENT PLOT : Treatment Interval 11



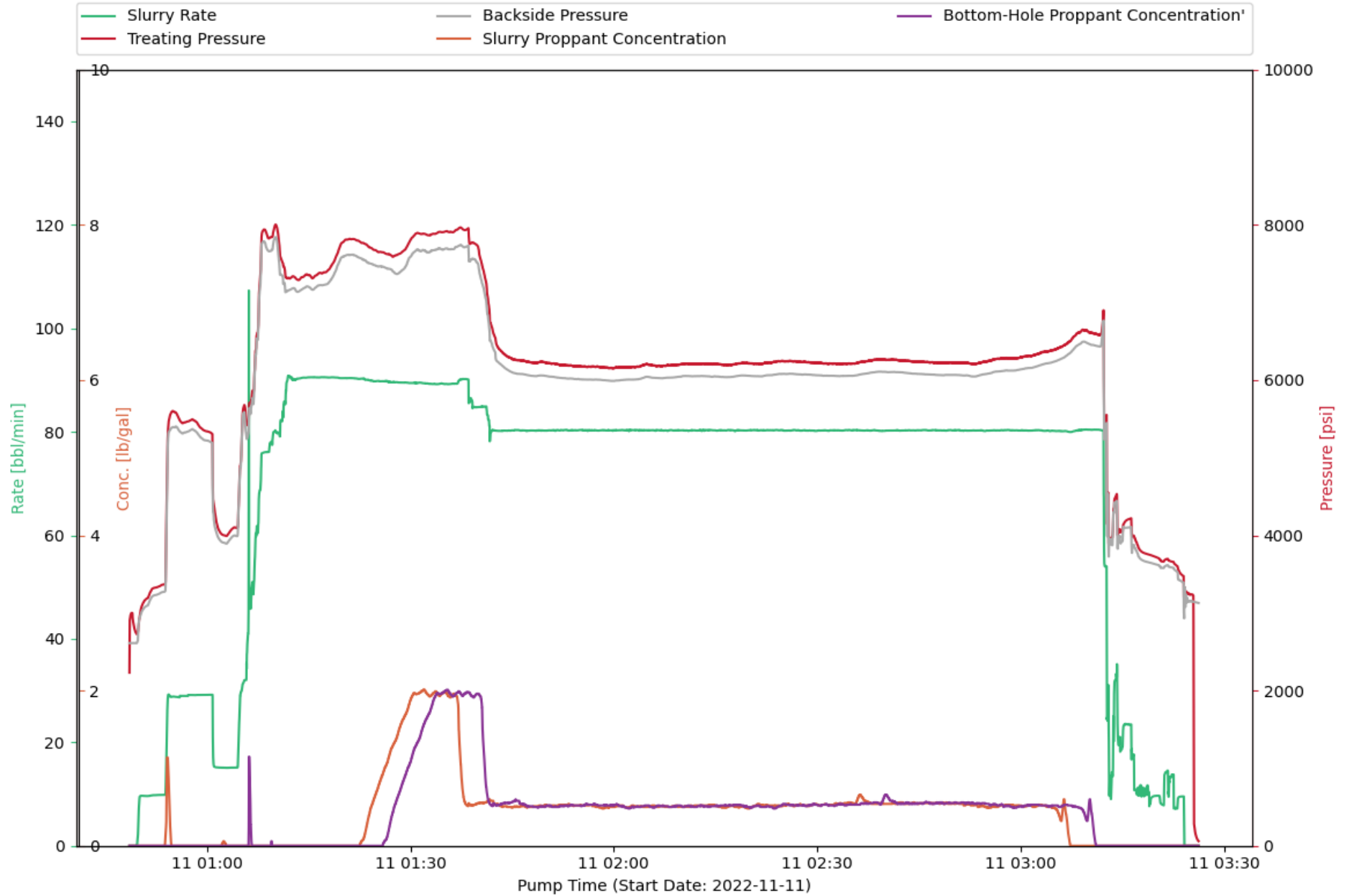
CHEMISTRY PLOT : Treatment Interval 11



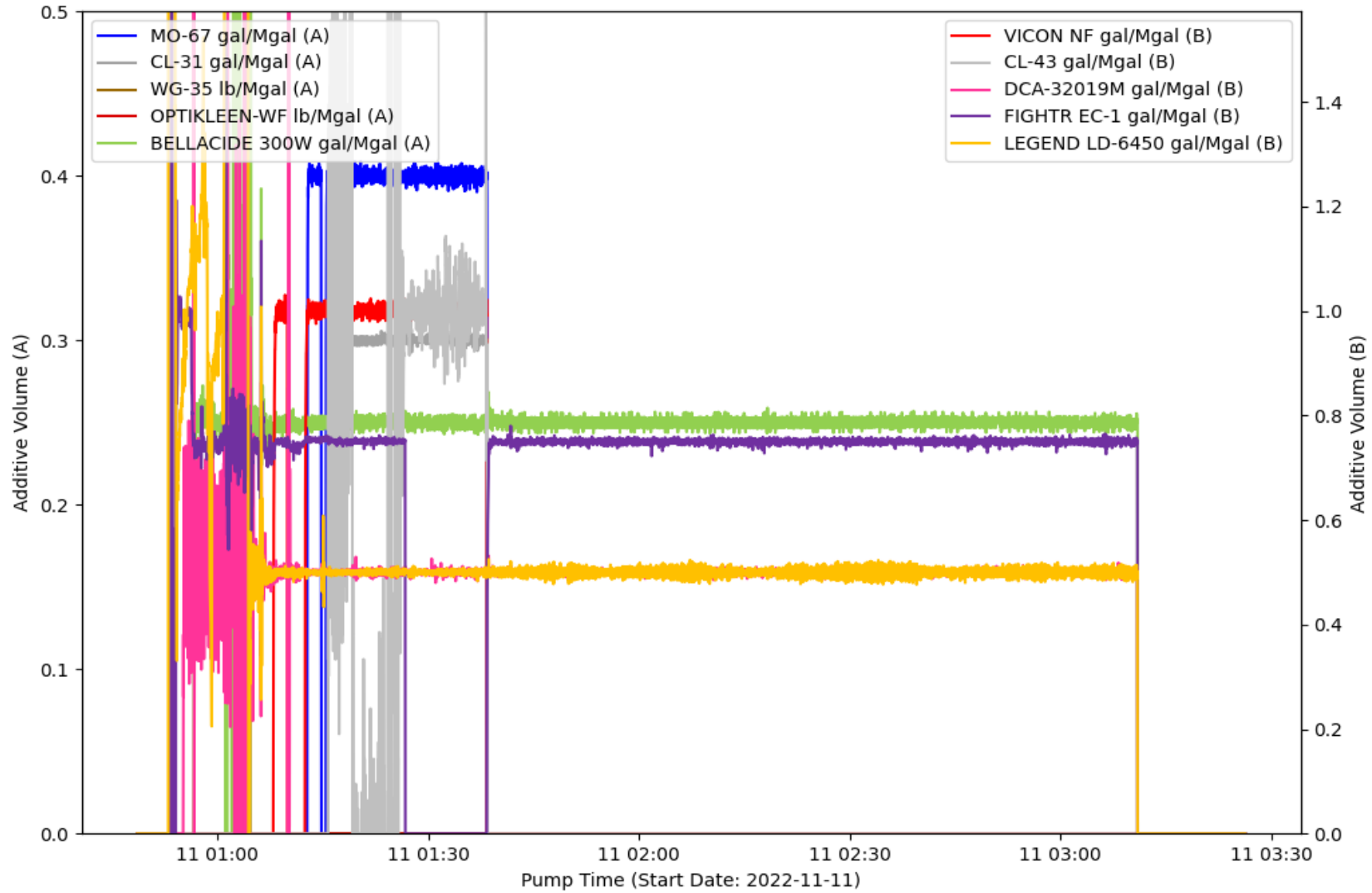
EVENT LOG : TREATMENT INTERVAL 11

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-10T18:01:26	0	3405	0	0	0	0	0
2	Start Pumping	2022-11-10T18:01:37	0.03	3353	0	0	0.02	0.02	0
3	Pump Acid	2022-11-10T18:04:20	10.83	4551	0	0	798.11	798.07	0
4	Ball on Seat	2022-11-10T18:16:15	14.59	4871	0	0	11540	11540	0
5	Break Formation	2022-11-10T18:17:14	14.55	5480	0	0	12147	12147	0
6	Pump Xlink Pill	2022-11-10T18:33:02	90	8647	0	0	58850	58850	0
7	Stop Pumping	2022-11-10T20:02:54	8.56	4082	0	0	375890	380914	110678
8	ISIP	2022-11-10T20:02:56	0	4352	0	0	375890	380914	110678
9	Shut In Well	2022-11-10T20:03:57	0	4139	0	0	375890	380914	110678

TREATMENT PLOT : Treatment Interval 12



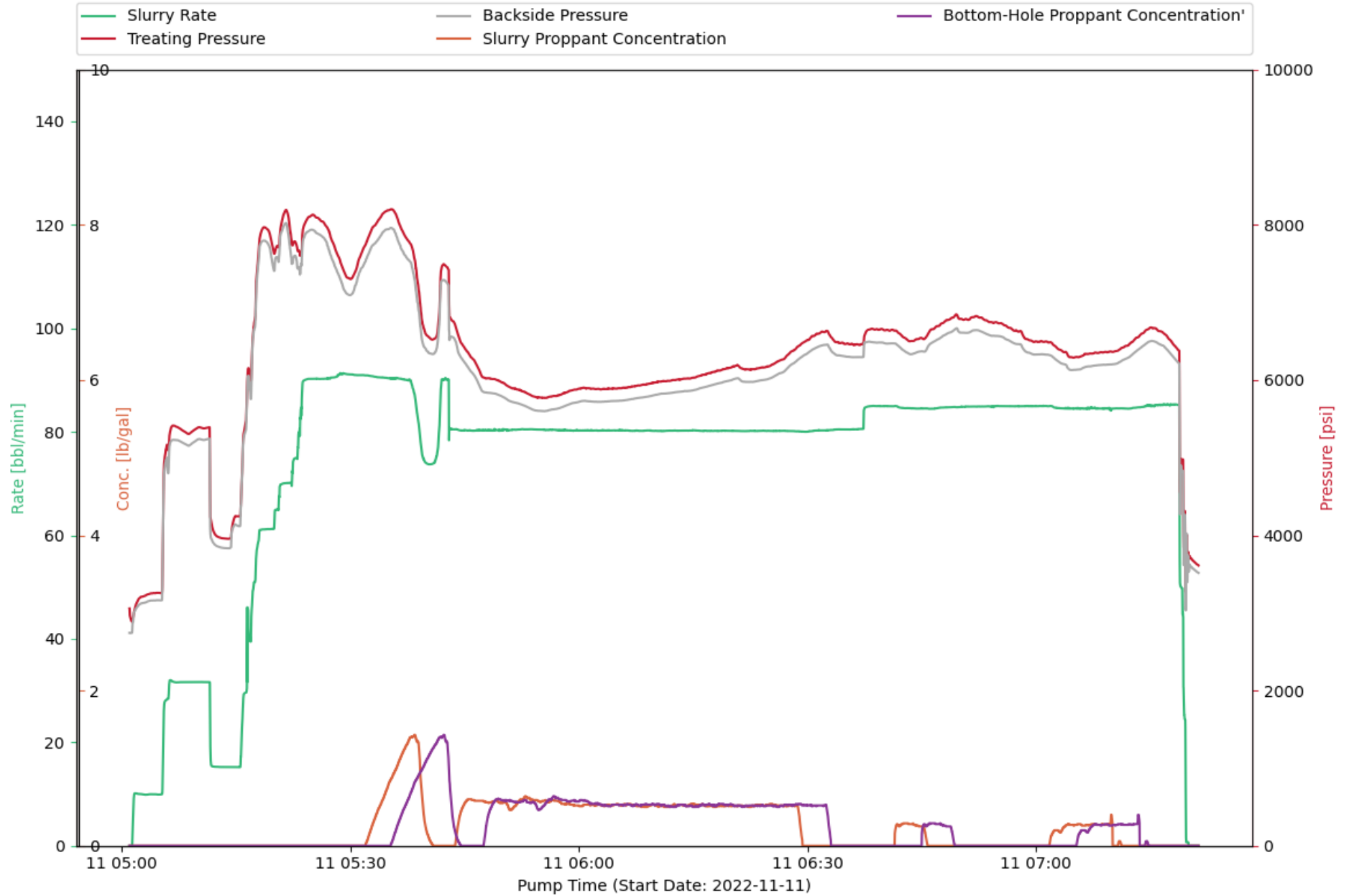
CHEMISTRY PLOT : Treatment Interval 12



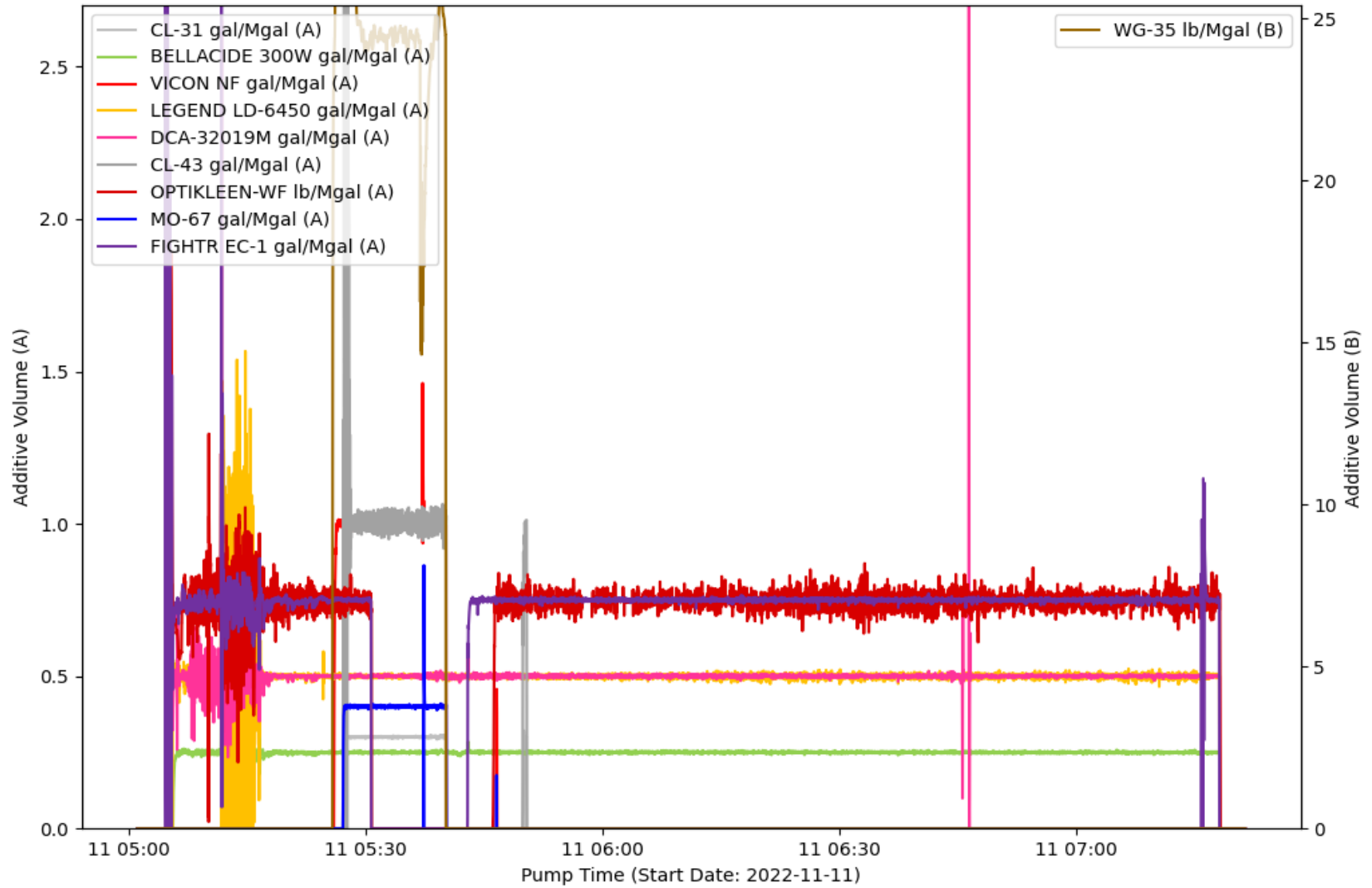
EVENT LOG : TREATMENT INTERVAL 12

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-11T00:49:34	0	2736	0	0	0	0	0
2	Start Pumping	2022-11-11T00:49:40	0	2727	0	0	0	0	0
3	Pump Acid	2022-11-11T00:51:22	9.64	3208	0	0	604.39	604.44	0
4	Ball on Seat	2022-11-11T01:03:01	15.08	4001	0	0	11380	11406	563.36
5	Break Formation	2022-11-11T01:03:56	15.12	4099	0	0	11957	11983	563.36
6	Pump Xlink Pill	2022-11-11T01:16:08	90.53	7351	0	0	48142	48168	563.36
7	Stop Pumping	2022-11-11T03:24:09	4.29	3114	0	0	446704	457186	230921
8	ISIP	2022-11-11T03:24:11	0	3291	0	0	446704	457186	230921
9	Shut In Well	2022-11-11T03:25:16	0	3239	0	0	446704	457186	230921

TREATMENT PLOT : Treatment Interval 13



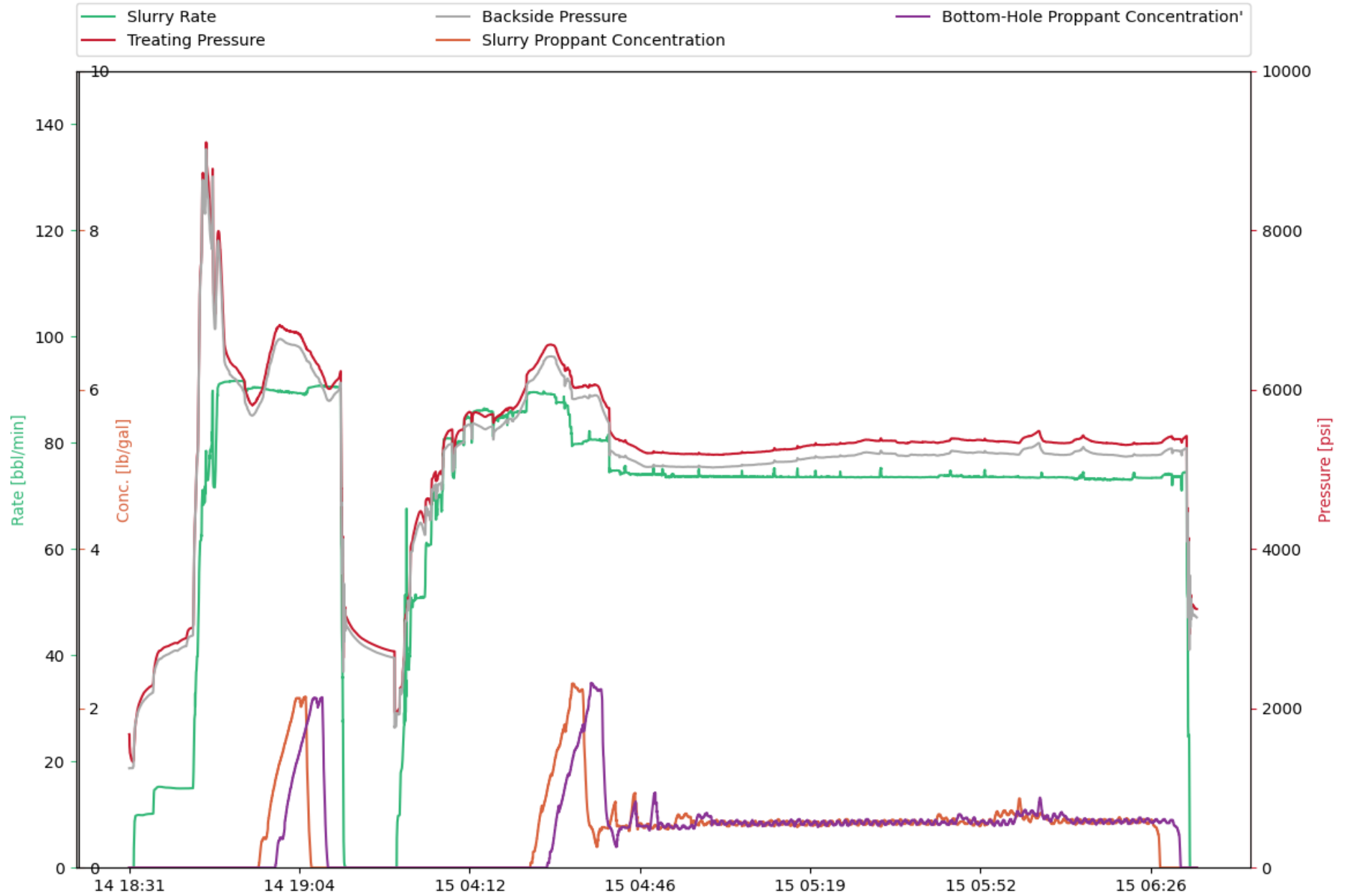
CHEMISTRY PLOT : Treatment Interval 13



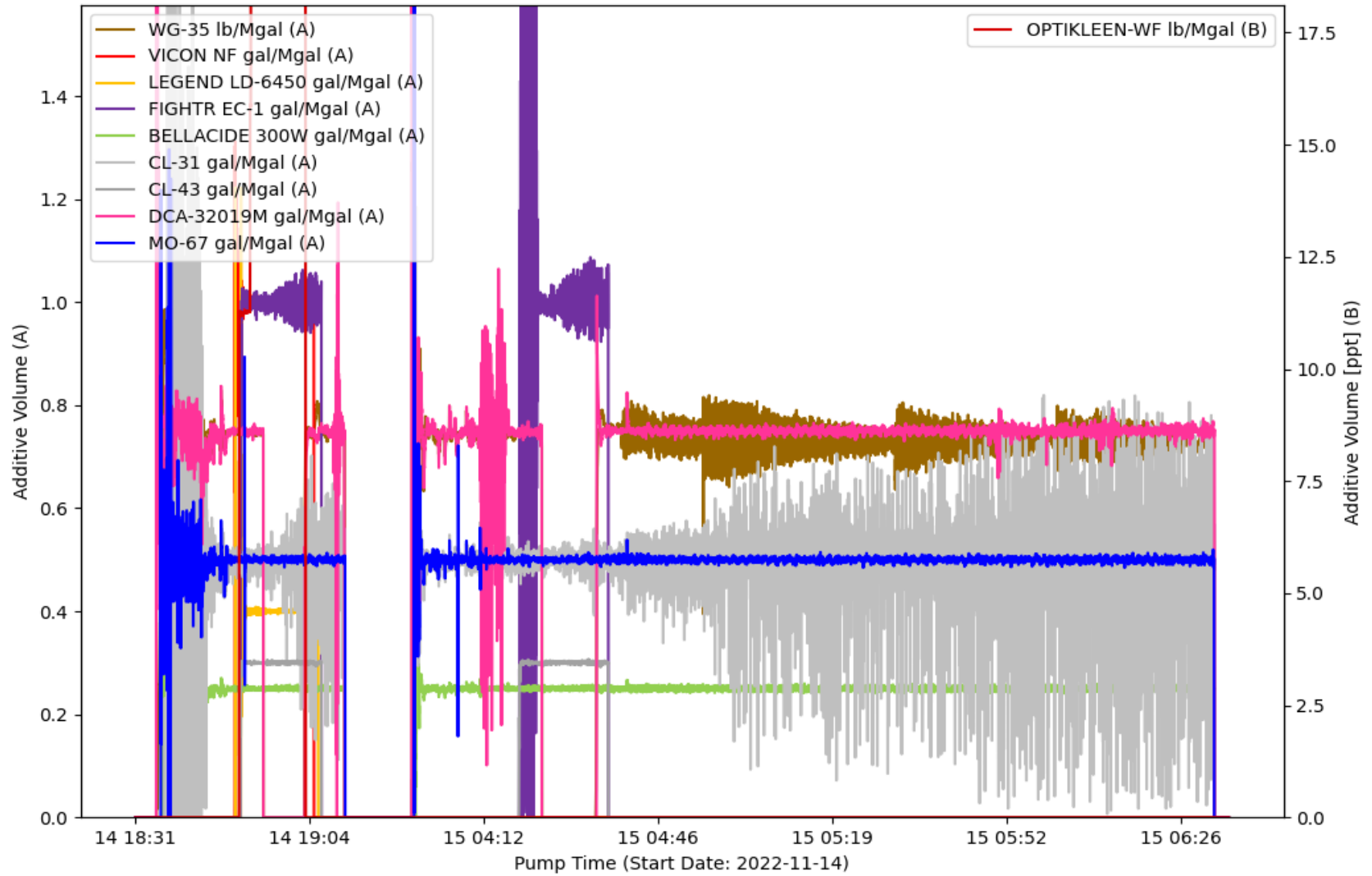
EVENT LOG : TREATMENT INTERVAL 13

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-11T05:01:12	0	2914	0	0	0	0	0
2	Start Pumping	2022-11-11T05:01:20	0	2886	0	0	0	0	0
3	Pump Acid	2022-11-11T05:02:56	9.9	3219	0	0	619.91	619.91	0
4	Ball on Seat	2022-11-11T05:14:18	15.24	3966	0	0	11483	11483	0
5	Break Formation	2022-11-11T05:15:00	15.22	4246	0	0	11935	11935	0
6	Pump Xlink Pill	2022-11-11T05:27:36	90.48	7793	0	0	47564	47564	0
7	Stop Pumping	2022-11-11T07:19:38	15.41	3334	0	0	431349	436507	113671
8	ISIP	2022-11-11T07:19:41	3.6	3358	0	0	431364	436522	113671
9	Shut In Well	2022-11-11T07:21:19	0	3613	0	0	431374	436532	113671

TREATMENT PLOT : Treatment Interval 14



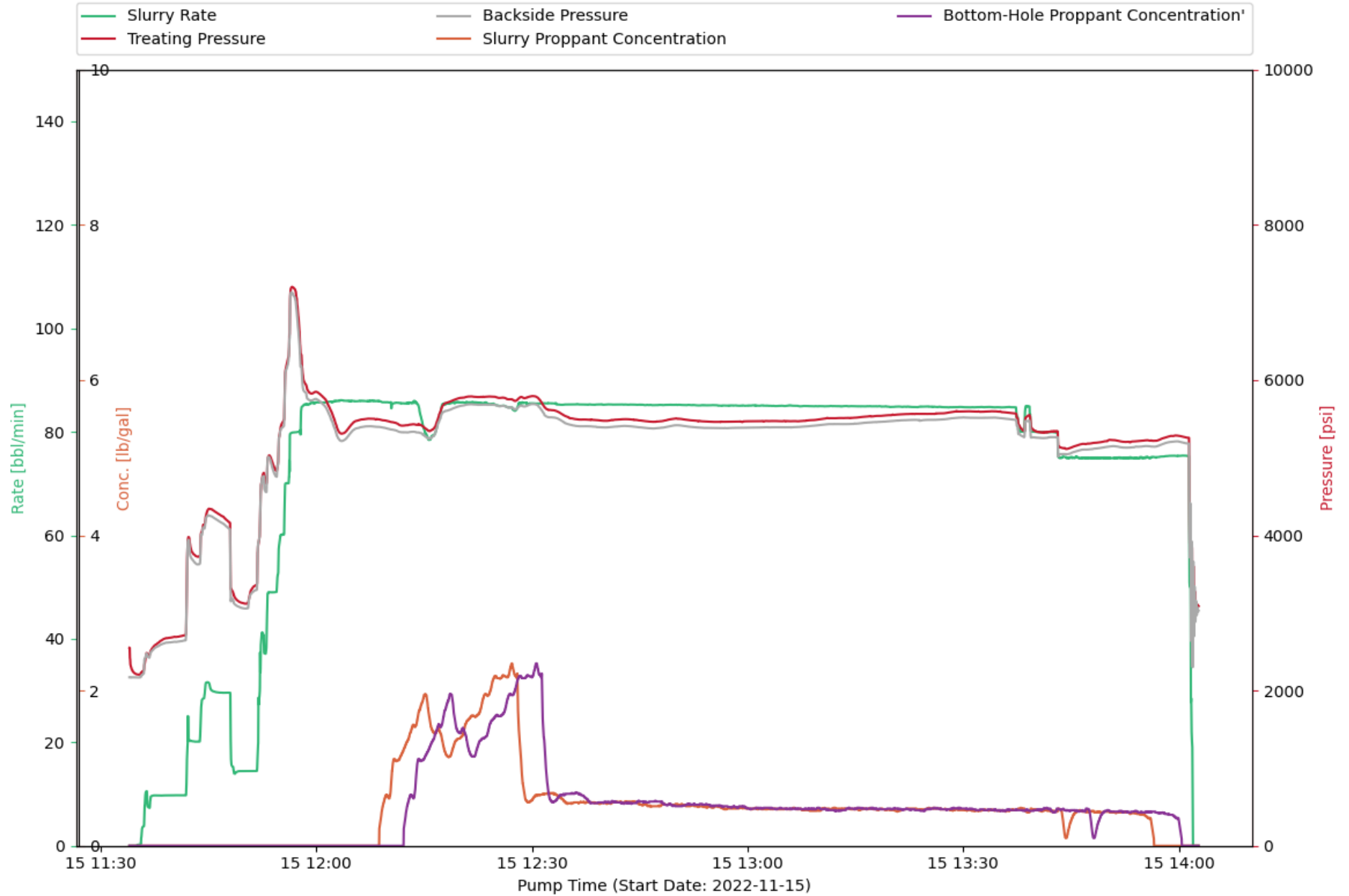
CHEMISTRY PLOT : Treatment Interval 14



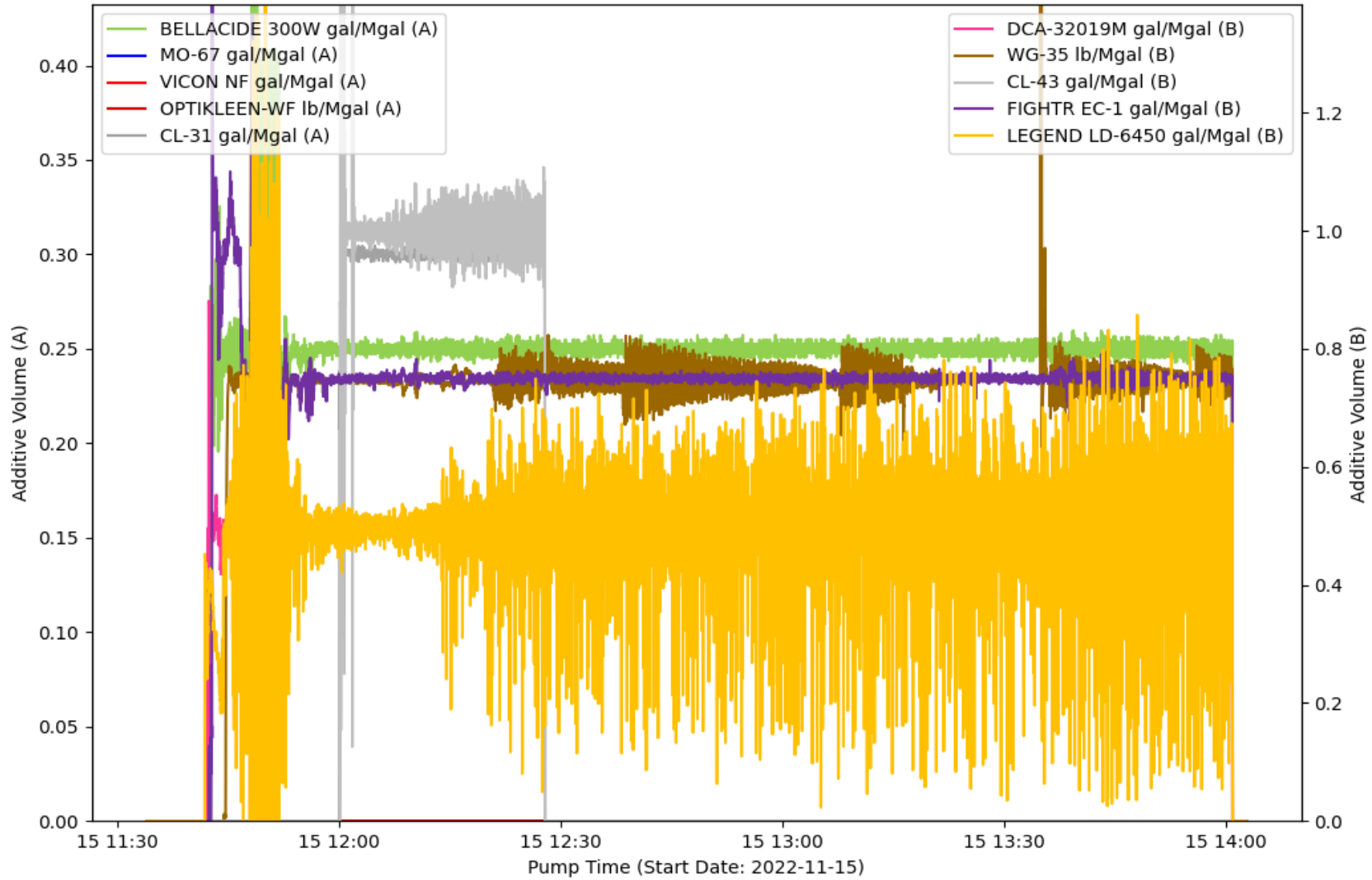
EVENT LOG : TREATMENT INTERVAL 14

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-14T18:31:28	0	1352	0	0	0	0	0
2	Start Pumping	2022-11-14T18:31:49	0	1344	0	0	0	0	0
3	Pump Acid	2022-11-14T18:33:56	9.96	2200	0	0	830.3	830.29	0
4	Ball on Seat	2022-11-14T18:42:46	14.95	2998	0	0	6029	6029	0
5	Break Formation	2022-11-14T18:43:24	14.98	3012	0	0	6431	6431	0
6	Pump Xlink Pill	2022-11-14T18:51:01	91.59	6327	0	0	29802	29802	0
7	Stop Pumping	2022-11-14T19:13:16	0	3148	0	0	109844	111940	46163
8	Shut In Well	2022-11-14T19:22:56	0	2716	0	0	109844	111940	46163
9	Open Well	2022-11-15T03:58:12	0	1918	0	0	113445	115540	46163
10	Start Pumping	2022-11-15T03:58:23	0	1947	0	0	113445	115540	46163
11	Pump Xlink Pill	2022-11-15T04:19:36	85.02	5738	0	0	174706	176801	46163
12	Stop Pumping	2022-11-15T06:33:37	20.19	3004	0	0	586954	600152	290779
13	ISIP	2022-11-15T06:33:41	4.5	3183	0	0	586981	600179	290779
14	Shut In Well	2022-11-15T06:35:04	0	3247	0	0	586985	600183	290779

TREATMENT PLOT : Treatment Interval 15



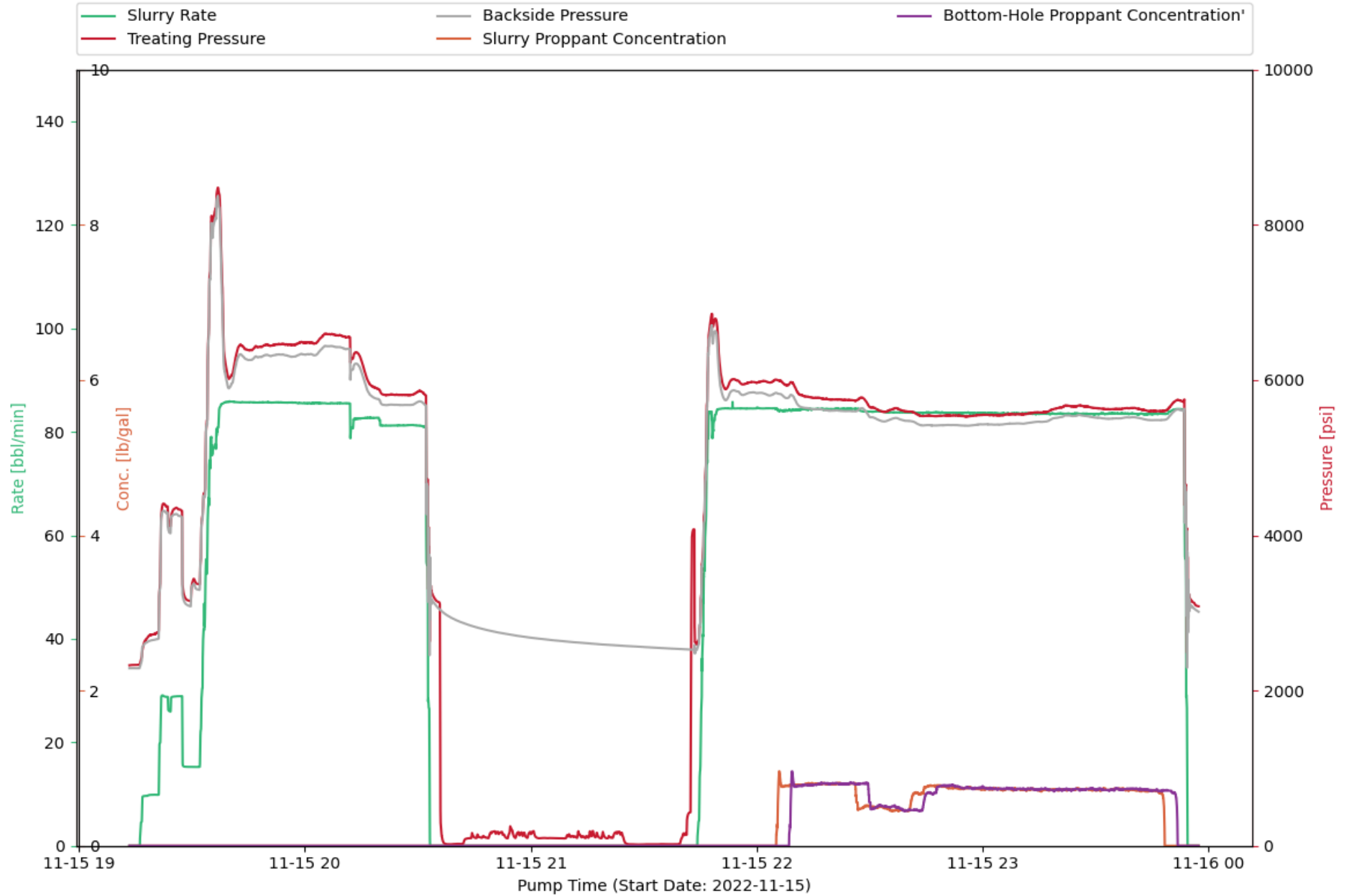
CHEMISTRY PLOT : Treatment Interval 15



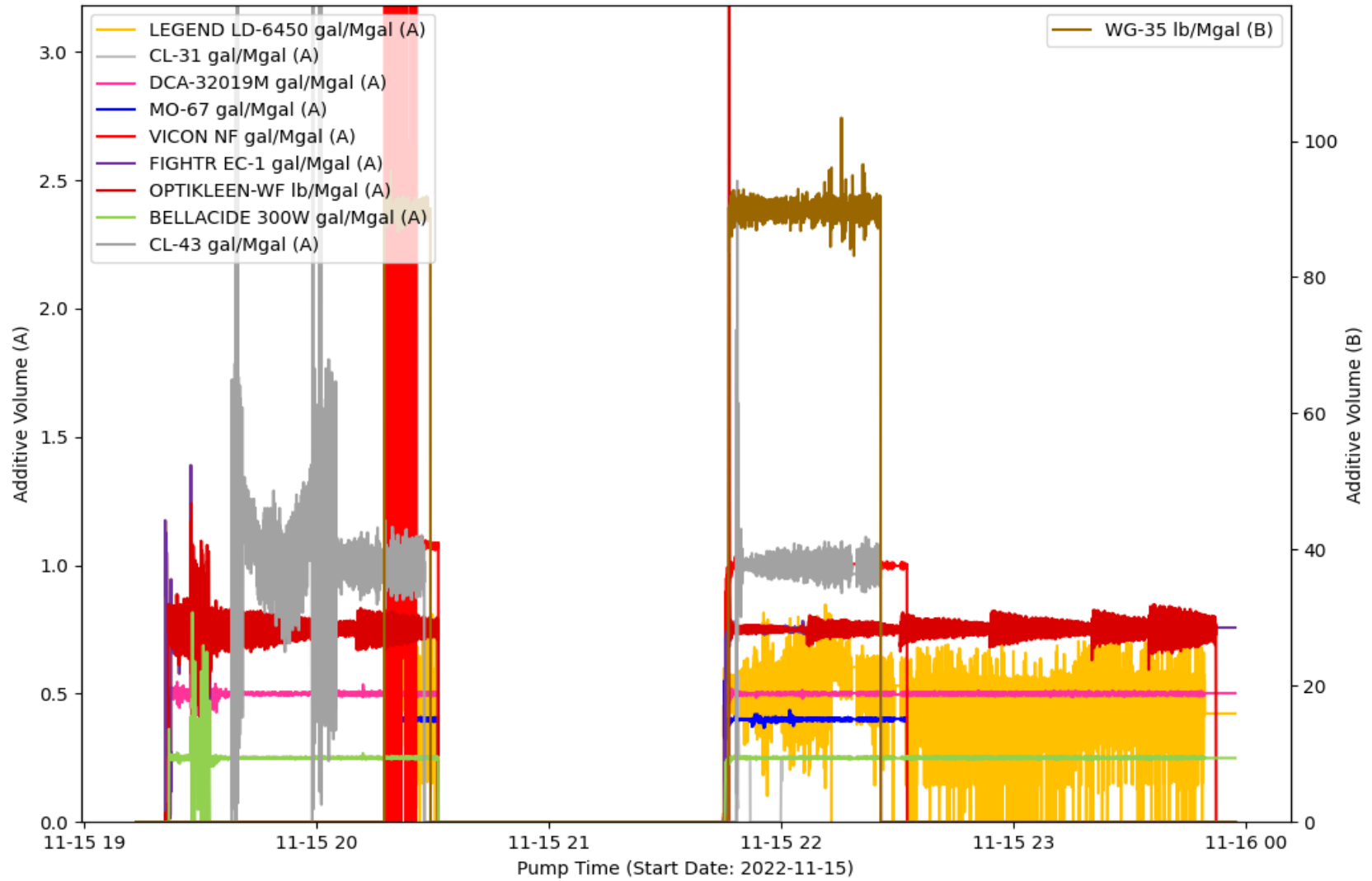
EVENT LOG : TREATMENT INTERVAL 15

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-15T11:34:19	0	2275	0	0	0	0	0
2	Start Pumping	2022-11-15T11:35:20	0.19	2204	0	0	2.07	2.07	0
3	Pump Acid	2022-11-15T11:38:44	9.73	2663	0	0	1110	1110	0
4	Ball on Seat	2022-11-15T11:50:24	14.45	3121	0	0	10725	10725	0
5	Break Formation	2022-11-15T11:51:30	14.42	3354	0	0	11399	11399	0
6	Pump Xlink Pill	2022-11-15T12:03:14	85.99	5323	0	0	45715	45715	0
7	Stop Pumping	2022-11-15T14:01:52	19.65	3443	0	0	448605	459875	248278
8	ISIP	2022-11-15T14:01:58	3.64	2788	0	0	448652	459922	248278
9	Shut In Well	2022-11-15T14:02:44	0	3083	0	0	448652	459922	248278

TREATMENT PLOT : Treatment Interval 16



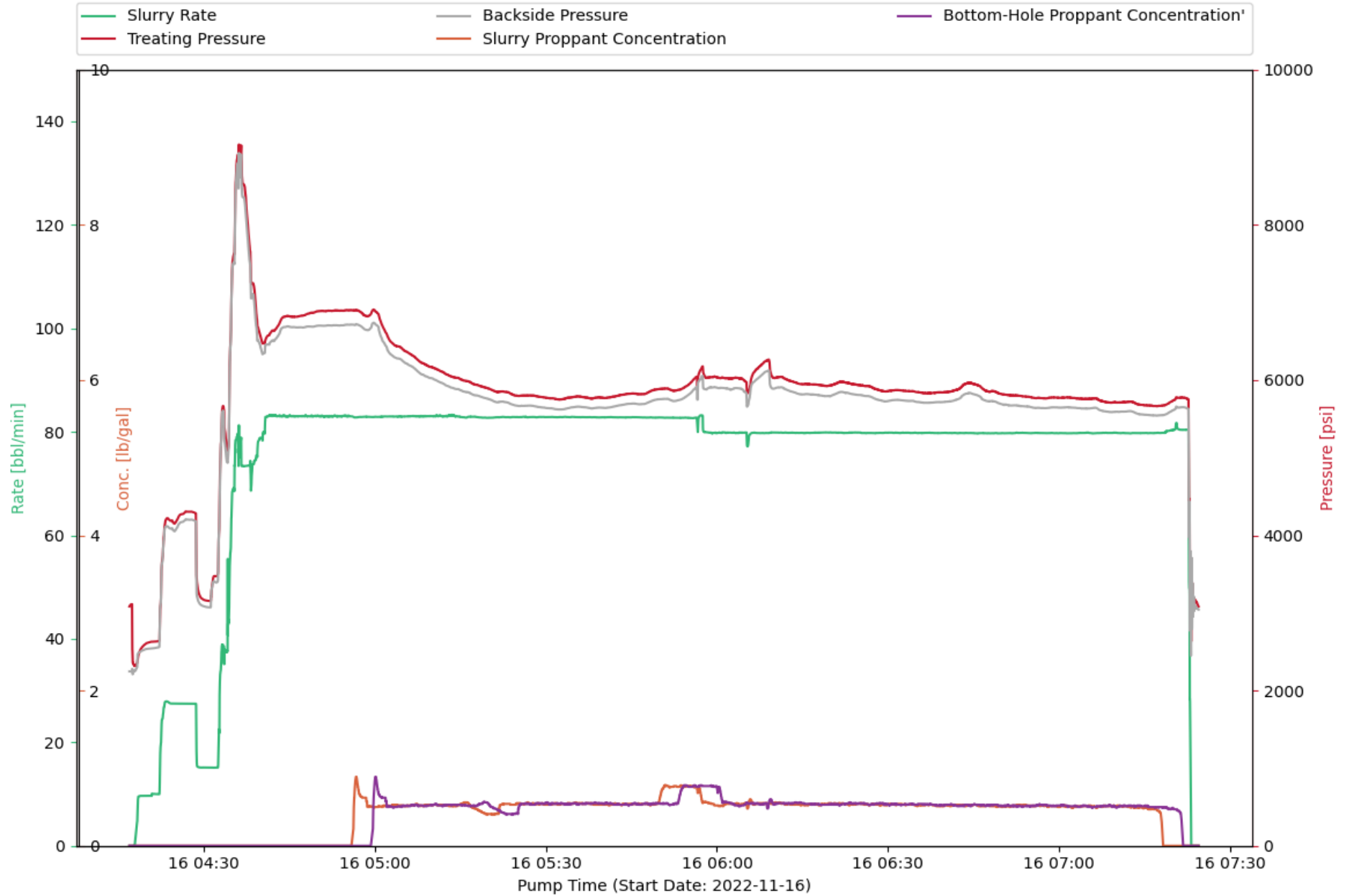
CHEMISTRY PLOT : Treatment Interval 16



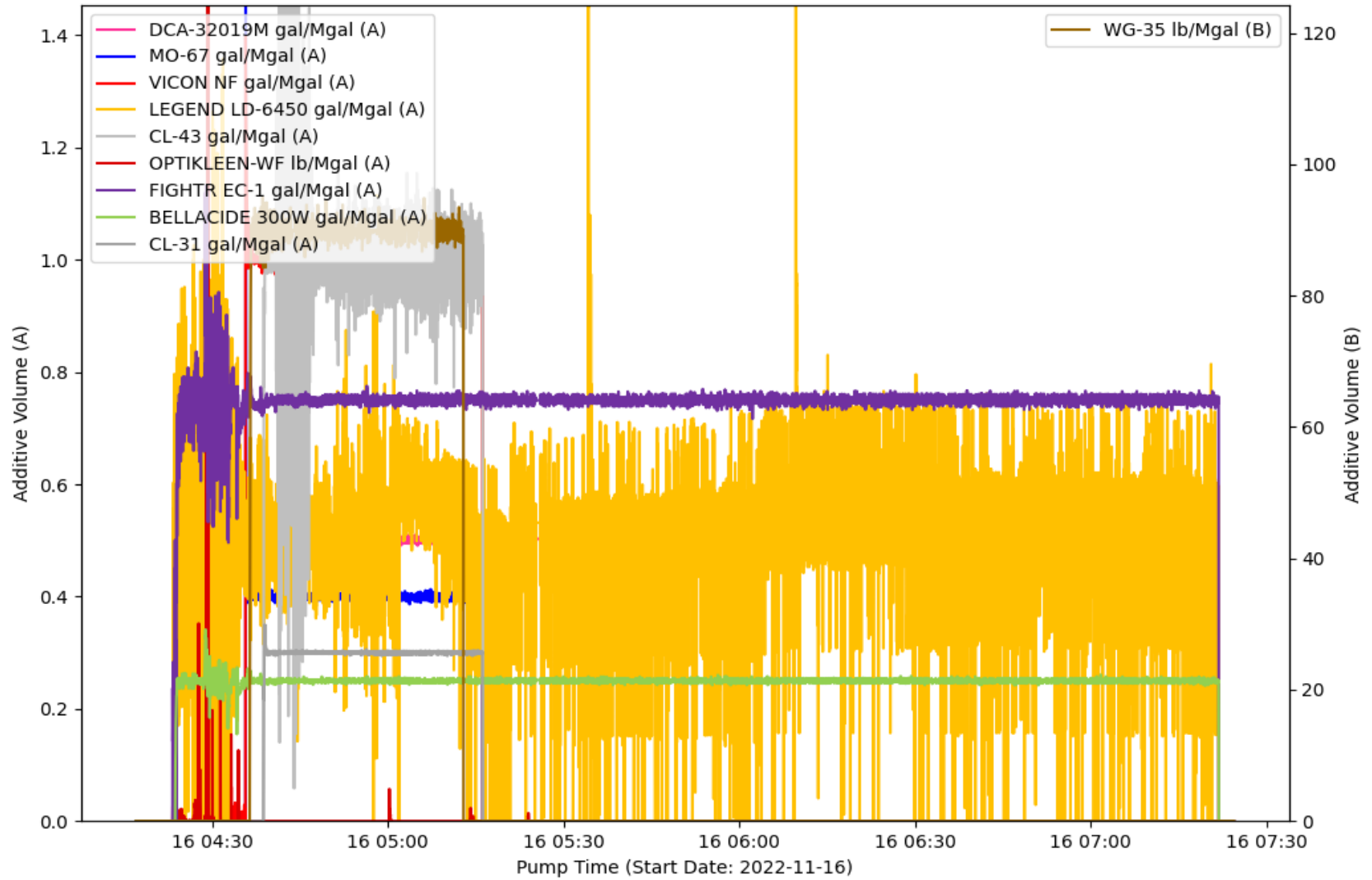
EVENT LOG : TREATMENT INTERVAL 16

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-15T19:14:26	0	2330	0	0	0	0	0
2	Start Pumping	2022-11-15T19:16:09	0	2342	0	0	0	0	0
3	Pump Acid	2022-11-15T19:18:23	9.75	2693	0	0	744.94	744.95	0
4	Ball on Seat	2022-11-15T19:29:44	15.25	3163	0	0	10638	10638	0
5	Break Formation	2022-11-15T19:31:12	15.24	3380	0	0	11576	11576	0
6	Stop Pumping	2022-11-15T20:33:12	1.25	3706	0	0	221284	221284	0
7	Shut In Well	2022-11-15T20:35:37	0	3142	0	0	221284	221284	0
8	Open Well	2022-11-15T21:43:57	0	2597	0	0	221284	221284	0
9	Start Pumping	2022-11-15T21:44:11	0	2609	0	0	221284	221284	0
10	Stop Pumping	2022-11-15T23:54:19	0	3580	0	0	661596	672799	246821
11	ISIP	2022-11-15T23:54:28	0	3013	0	0	661596	672799	246821
12	Shut In Well	2022-11-15T23:56:17	0	3112	0	0	661596	672799	246821

TREATMENT PLOT : Treatment Interval 17



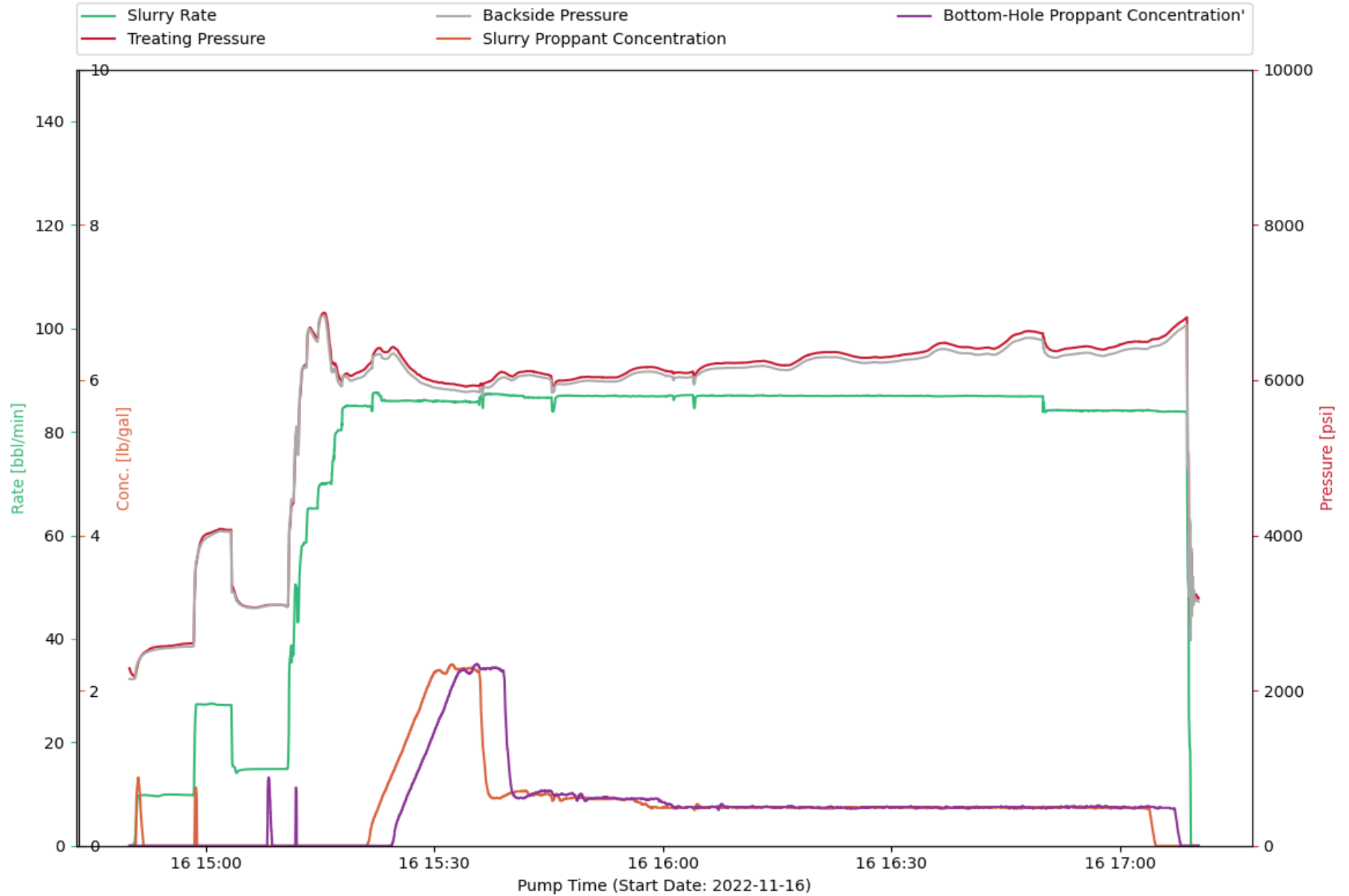
CHEMISTRY PLOT : Treatment Interval 17



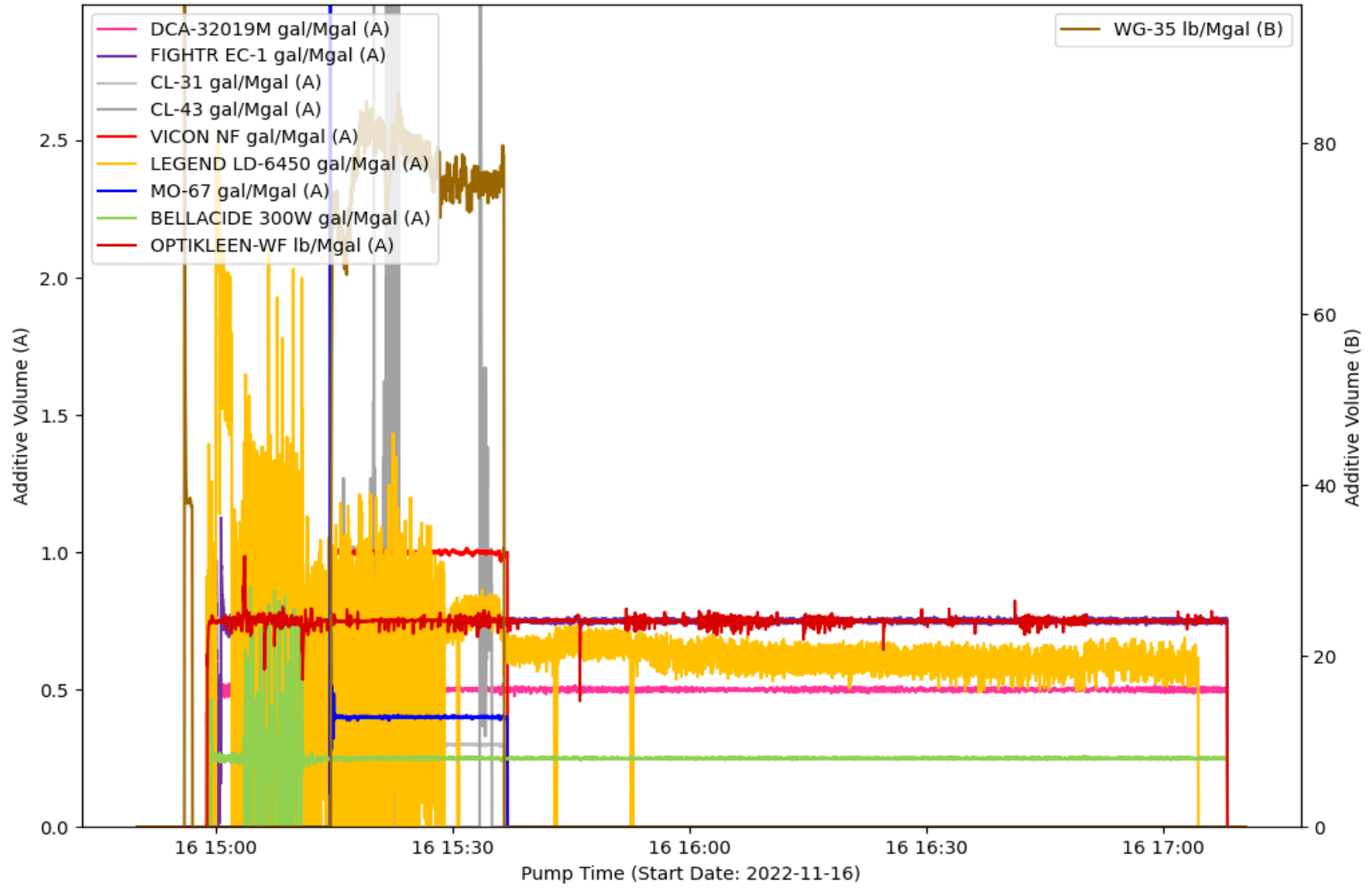
EVENT LOG : TREATMENT INTERVAL 17

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Start Avg Trt 17	2022-11-16T04:17:28	0	2849	0	0	0	0	0
2	Open Well	2022-11-16T04:17:46	0	2328	0	0	0	0	0
3	Start Pumping	2022-11-16T04:17:54	0.01	2316	0	0	0.01	0.01	0
4	Pump Acid	2022-11-16T04:20:45	9.67	2628	0	0	1004	1004	0
5	Ball on Seat	2022-11-16T04:31:12	15.12	3155	0	0	10497	10497	0
6	Break Formation	2022-11-16T04:32:26	15.08	3485	0	0	11276	11276	0
7	Pump Xlink Pill	2022-11-16T04:53:02	83.12	6895	0	0	76603	76603	0
8	Stop Pumping	2022-11-16T07:23:02	17.81	3744	0	0	575653	587155	253411
9	ISIP	2022-11-16T07:23:04	15.8	3520	0	0	575676	587178	253411
10	Shut In Well	2022-11-16T07:24:26	0	3085	0	0	575703	587205	253411

TREATMENT PLOT : Treatment Interval 18



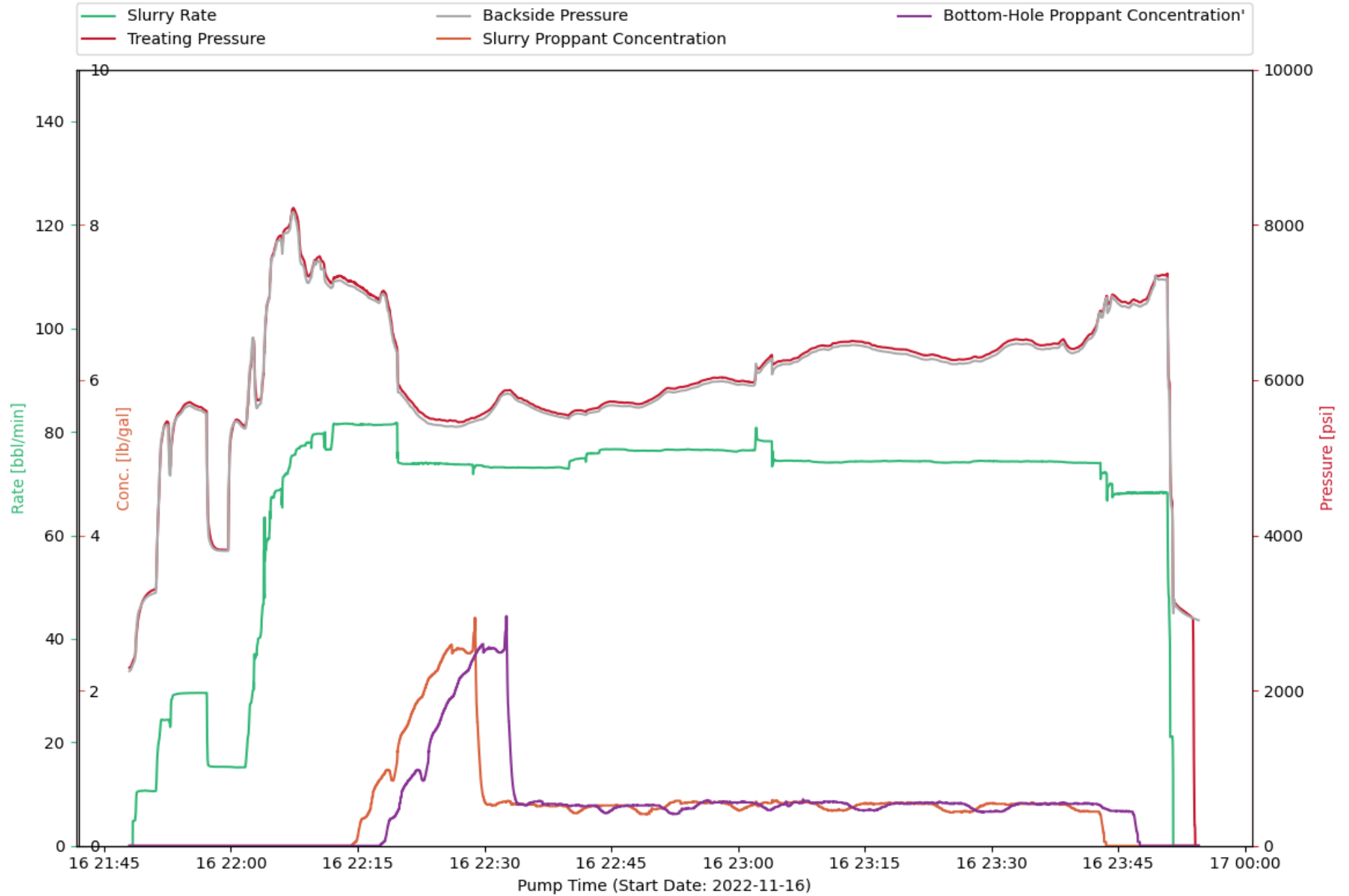
CHEMISTRY PLOT : Treatment Interval 18



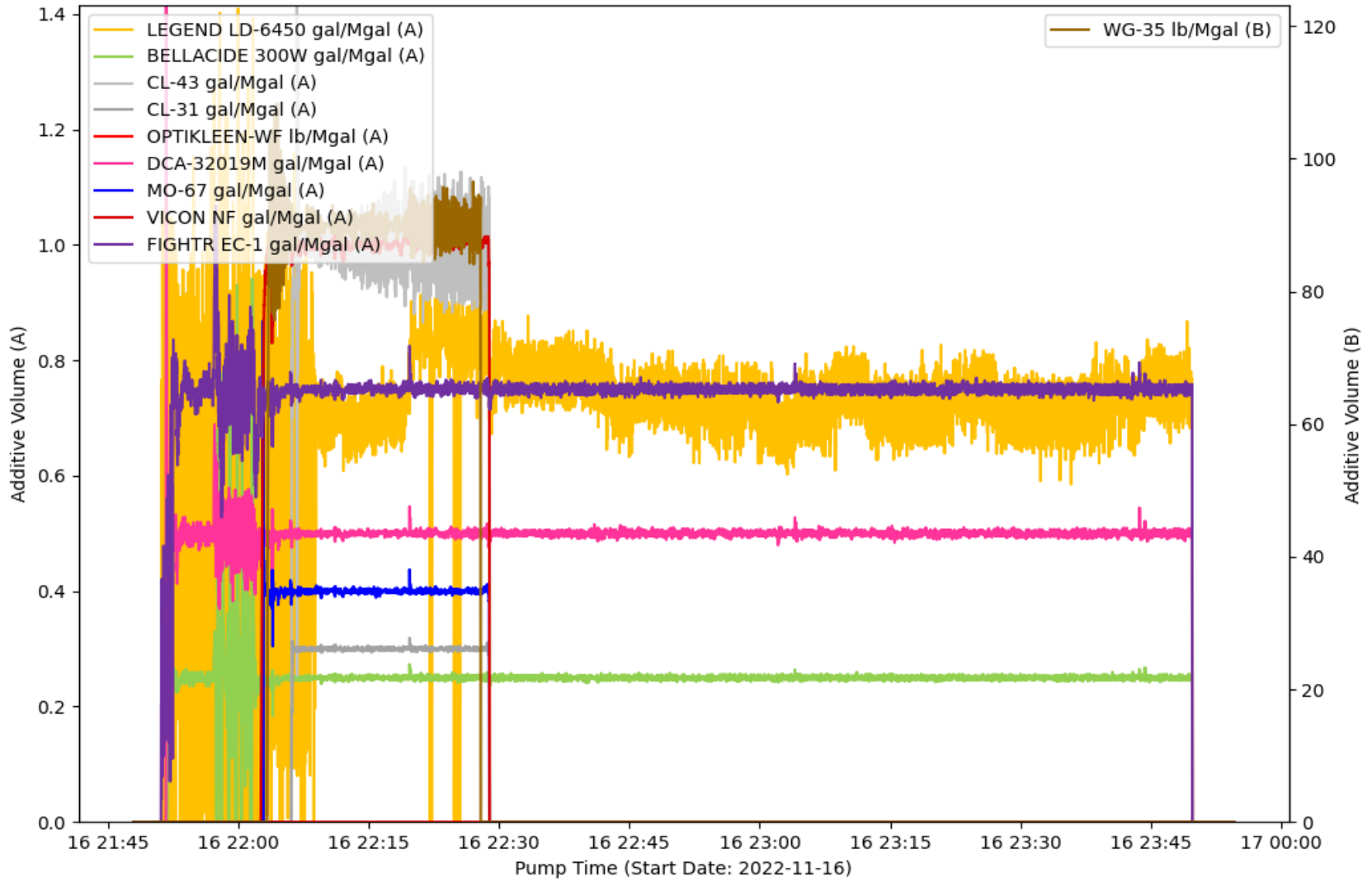
EVENT LOG : TREATMENT INTERVAL 18

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-16T14:50:11	0	2234	0	0	0	0	0
2	Start Pumping	2022-11-16T14:50:24	0	2201	0	0	0	0	0
3	Pump Acid	2022-11-16T14:53:25	9.62	2559	0	0	1031	1040	192.65
4	Ball on Seat	2022-11-16T15:09:06	14.81	3103	0	0	12252	12270	393.25
5	Break Formation	2022-11-16T15:10:15	14.84	3101	0	0	12965	12983	393.25
6	Pump Xlink Pill	2022-11-16T15:20:25	85	6115	0	0	40968	40985	393.25
7	Stop Pumping	2022-11-16T17:09:08	19.06	4112	0	0	423105	434314	246925
8	ISIP	2022-11-16T17:09:17	0	3177	0	0	423180	434389	246925
9	Shut In Well	2022-11-16T17:10:16	0	3193	0	0	423180	434389	246925

TREATMENT PLOT : Treatment Interval 19



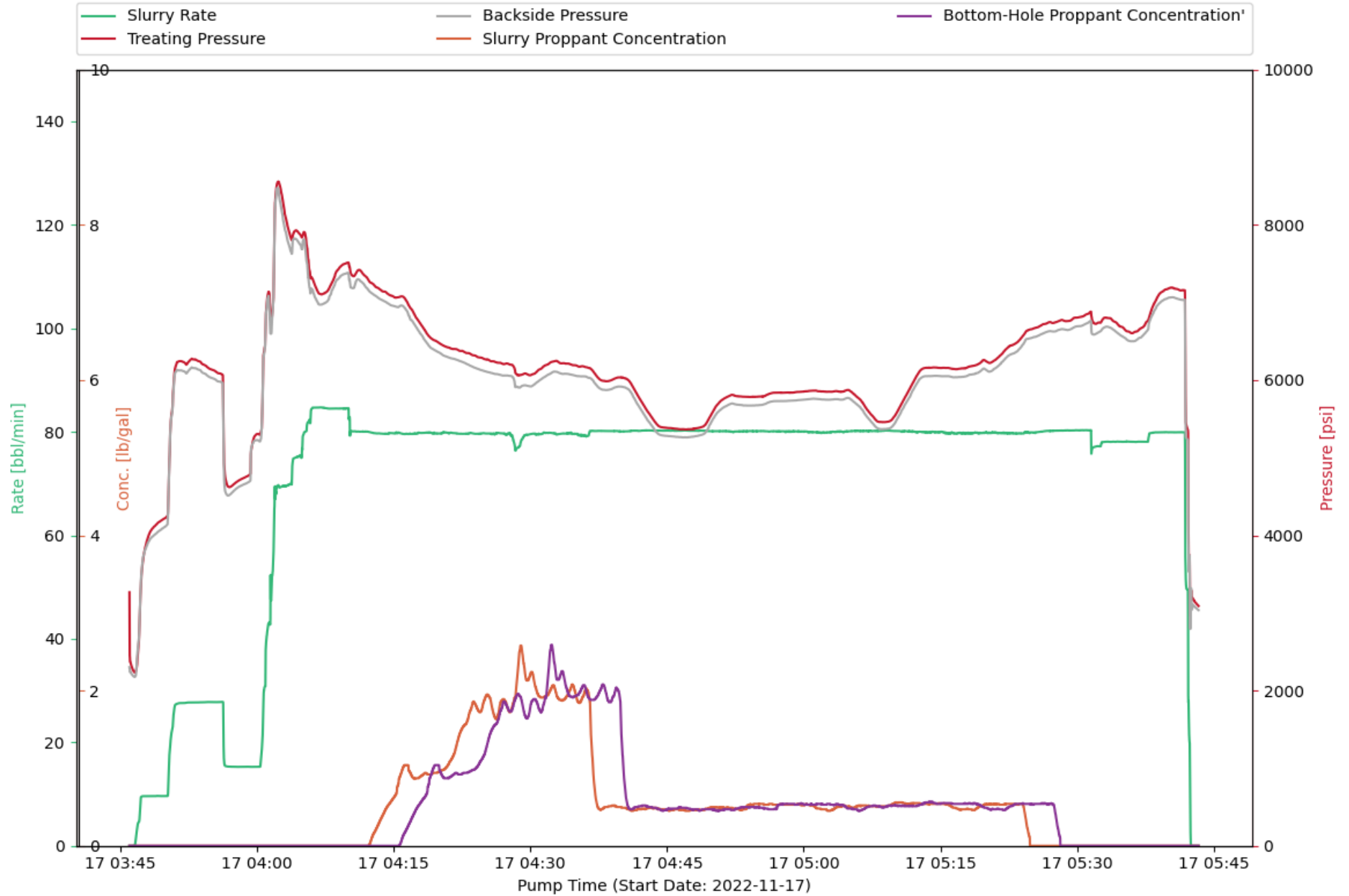
CHEMISTRY PLOT : Treatment Interval 19



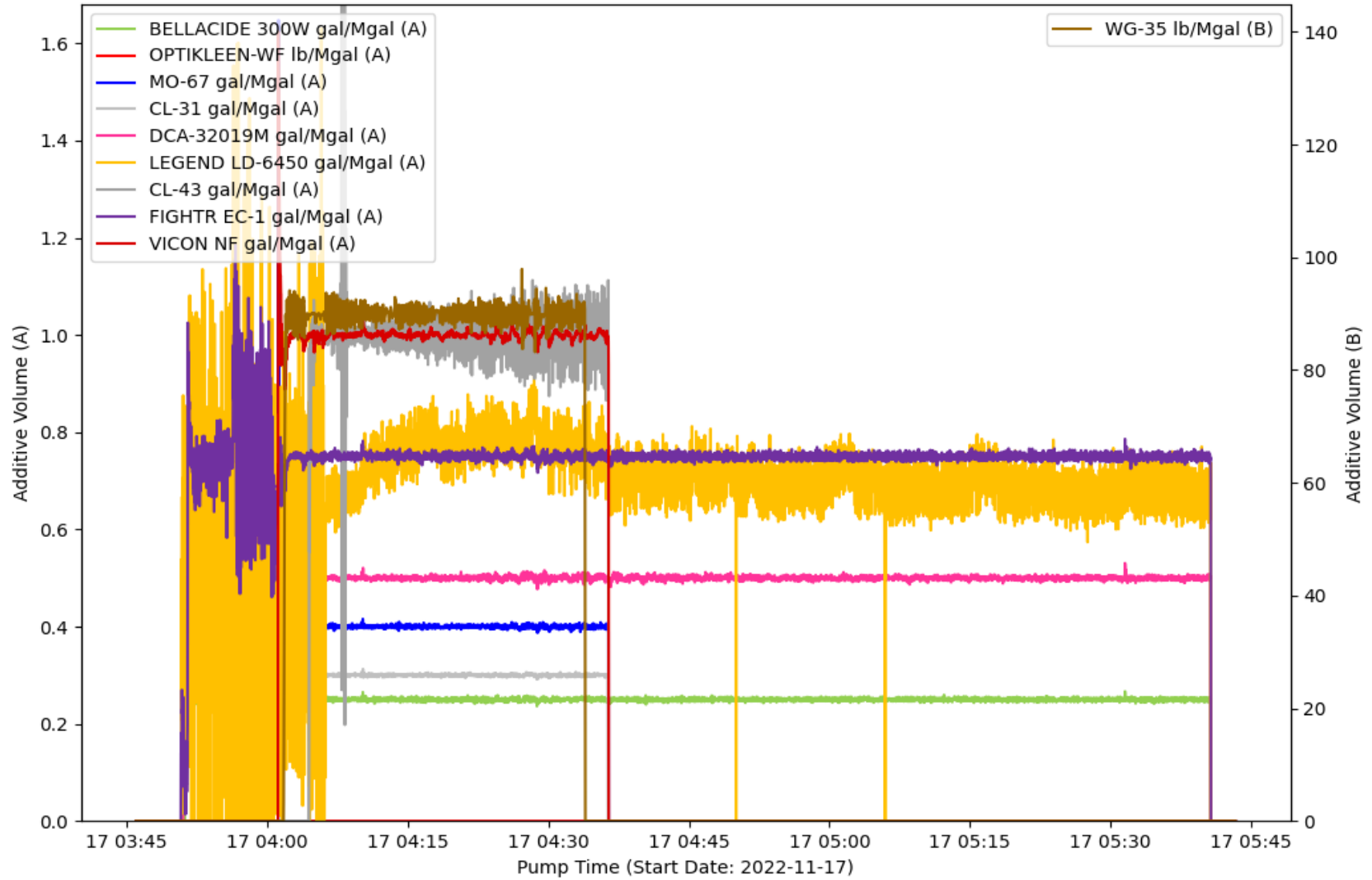
EVENT LOG : TREATMENT INTERVAL 19

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	End Avg Trt 18	2022-11-16T21:55:10	29.52	5716	0	0	5592	5592	0
2	Pump Acid	2022-11-16T21:55:24	29.51	5698	0	0	5634	5634	0
3	Ball on Seat	2022-11-16T21:59:36	15.27	3812	0	0	9407	9407	0
4	Break Formation	2022-11-16T22:01:32	15.17	5410	0	0	10641	10641	0
5	Start Avg Trt 19	2022-11-16T22:10:20	79.66	7580	0	0	33329	33329	0
6	Stop Pumping	2022-11-16T23:51:29	14.08	3207	0	0	341398	349861	186475
7	ISIP	2022-11-16T23:51:36	0	3139	0	0	341398	349861	186475
8	Shut In Well	2022-11-16T23:53:30	0	2963	0	0	341398	349861	186475

TREATMENT PLOT : Treatment Interval 20



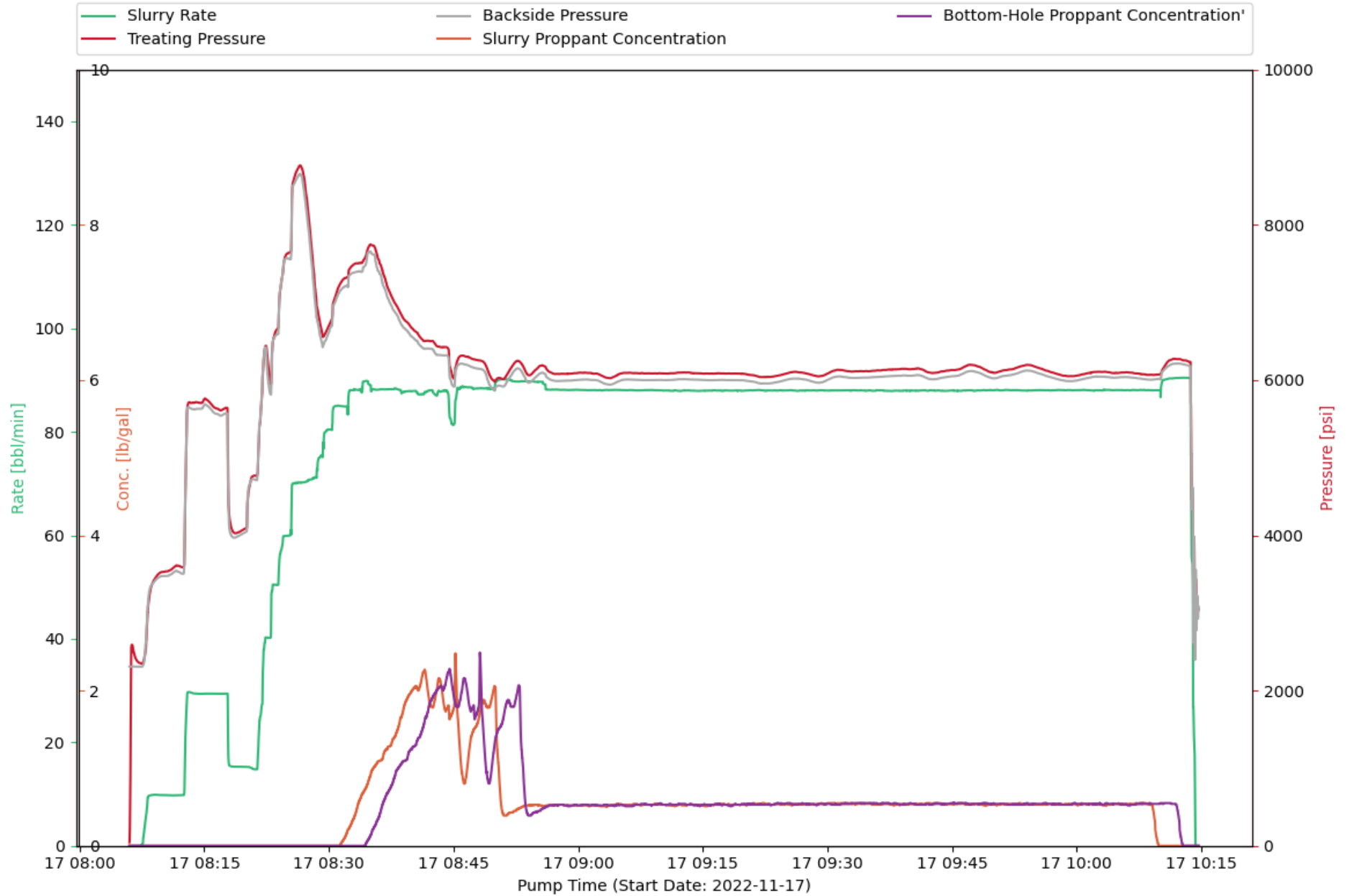
CHEMISTRY PLOT : Treatment Interval 20



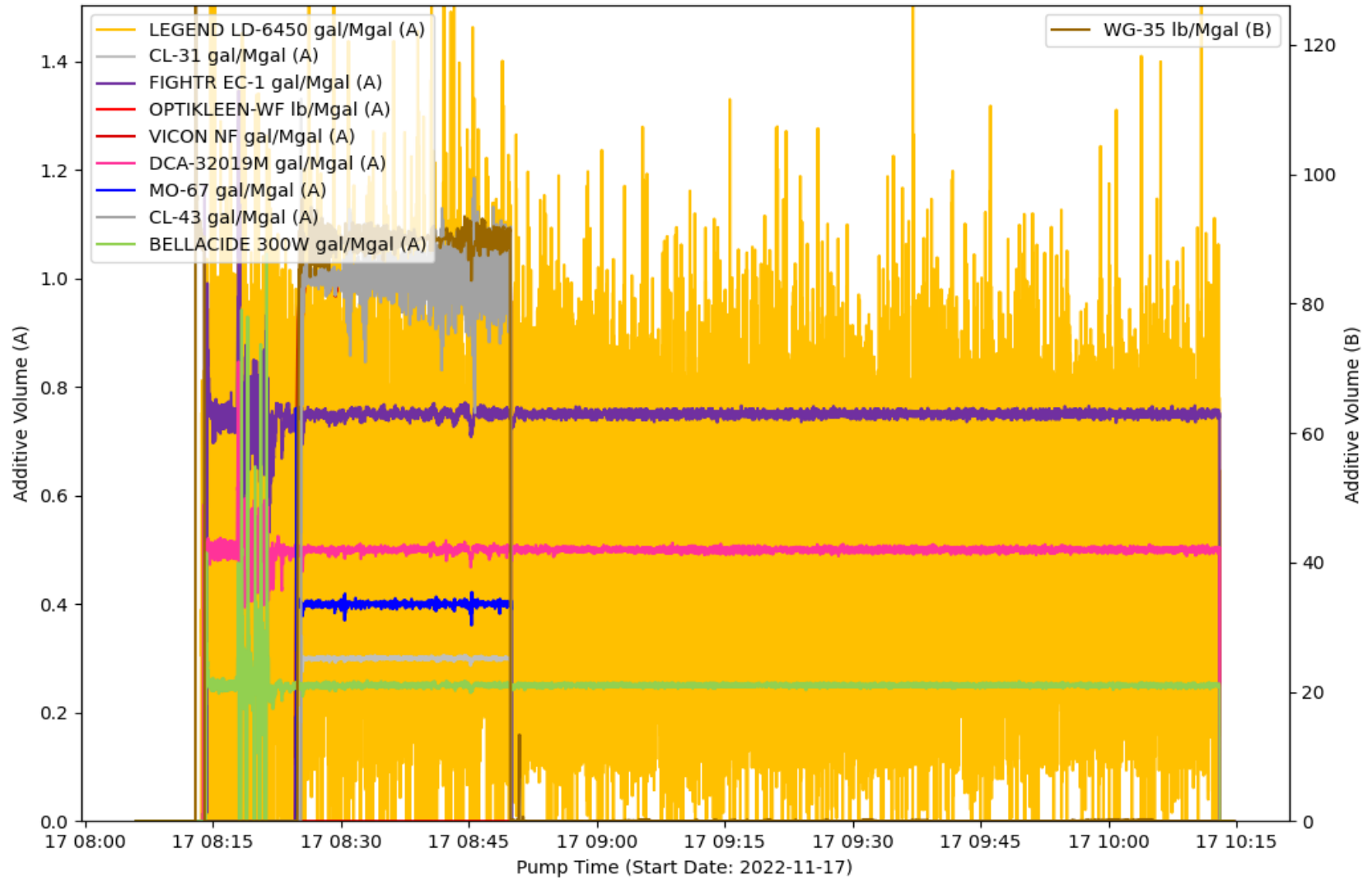
EVENT LOG : TREATMENT INTERVAL 20

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-17T03:46:15	0.01	2304	0	0	0.01	0.01	0
2	Start Pumping	2022-11-17T03:46:30	0.01	2241	0	0	0.12	0.12	0
3	Pump Acid	2022-11-17T03:49:10	9.64	4166	0	0	889.03	889.03	0
4	Ball on Seat	2022-11-17T03:58:11	15.26	4719	0	0	9380	9380	0
5	Break Formation	2022-11-17T04:00:19	15.28	5296	0	0	10751	10751	0
6	Stop Pumping	2022-11-17T05:42:18	21.52	3710	0	0	340196	348838	190414
7	ISIP	2022-11-17T05:42:28	1.41	3072	0	0	340285	348927	190414
8	Shut In Well	2022-11-17T05:43:19	0	3091	0	0	340285	348927	190414

TREATMENT PLOT : Treatment Interval 21



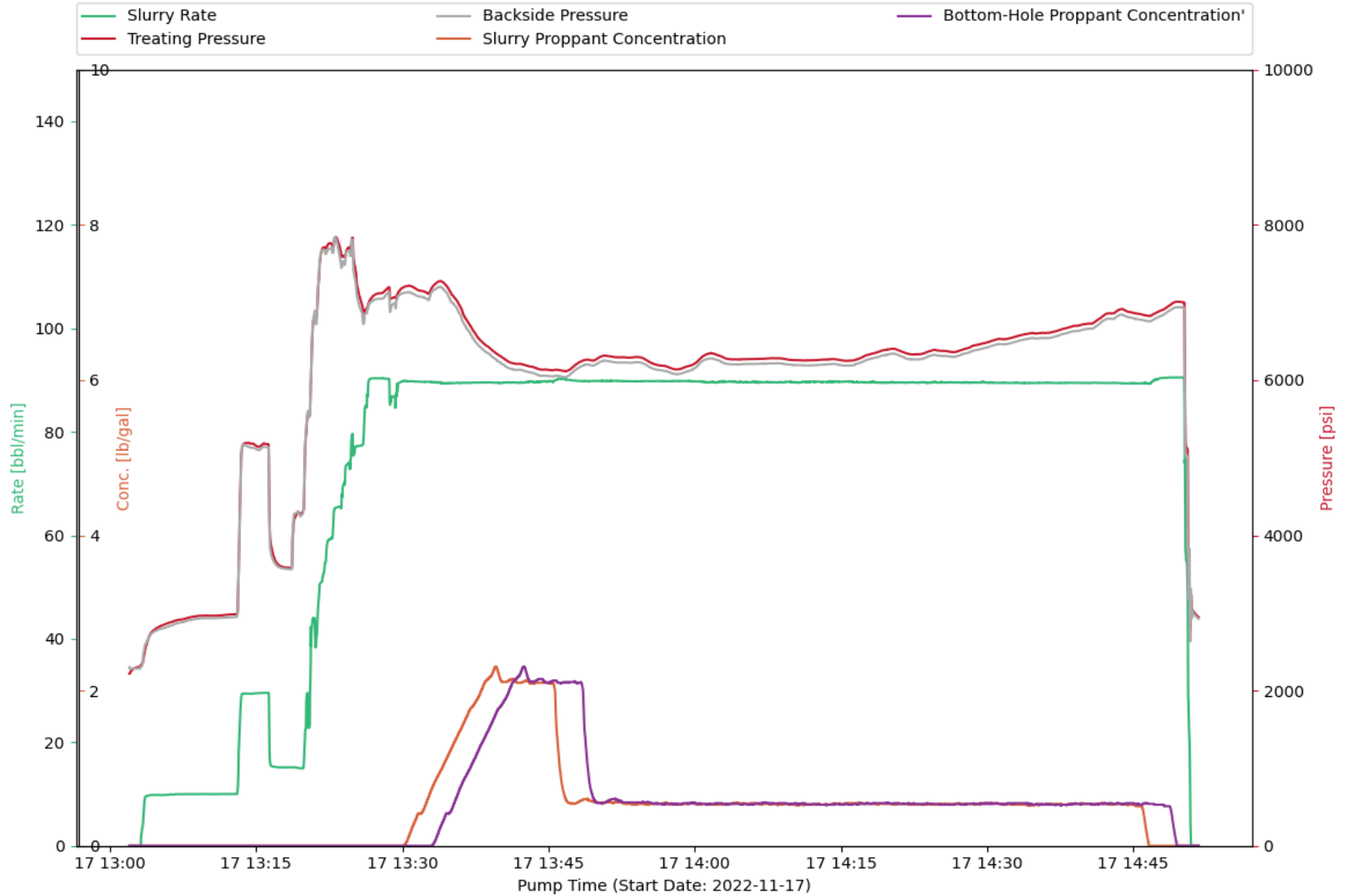
CHEMISTRY PLOT : Treatment Interval 21



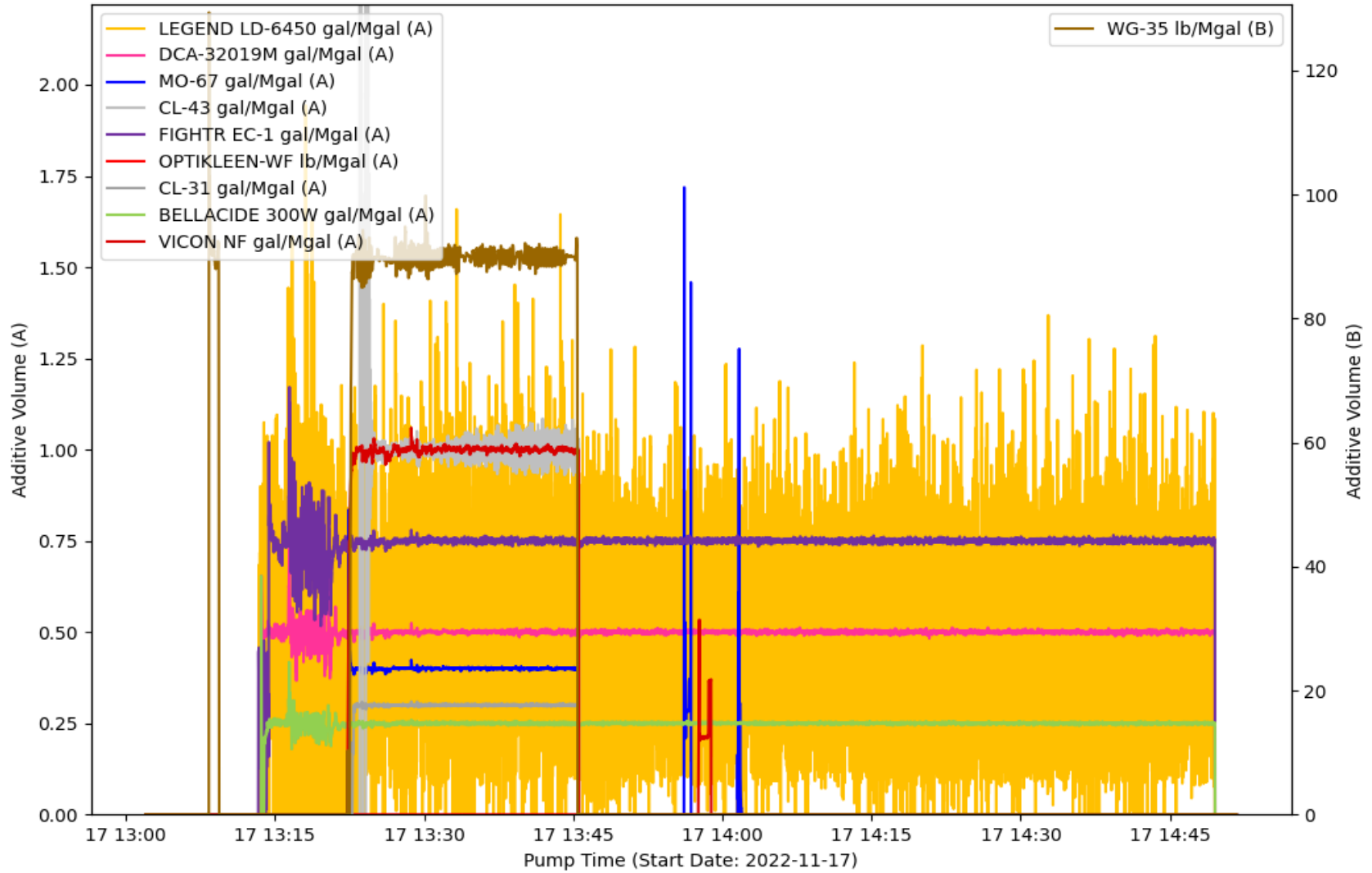
EVENT LOG : TREATMENT INTERVAL 21

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-17T08:06:51	0	2392	0	0	0	0	0
2	Start Pumping	2022-11-17T08:07:24	0	2349	0	0	0	0	0
3	Pump Acid	2022-11-17T08:10:03	9.79	3529	0	0	878.19	878.26	0
4	Ball on Seat	2022-11-17T08:20:08	15.26	4104	0	0	9783	9783	0
5	Break Formation	2022-11-17T08:20:34	15.11	4697	0	0	10062	10062	0
6	Pump Xlink Pill	2022-11-17T08:27:45	70.77	7899	0	0	25284	25284	0
7	Stop Pumping	2022-11-17T10:14:16	8.77	2530	0	0	406048	417096	243433
8	ISIP	2022-11-17T10:14:17	4.89	2637	0	0	406052	417100	243433
9	Shut In Well	2022-11-17T10:14:40	0	3046	0	0	406052	417100	243433

TREATMENT PLOT : Treatment Interval 22



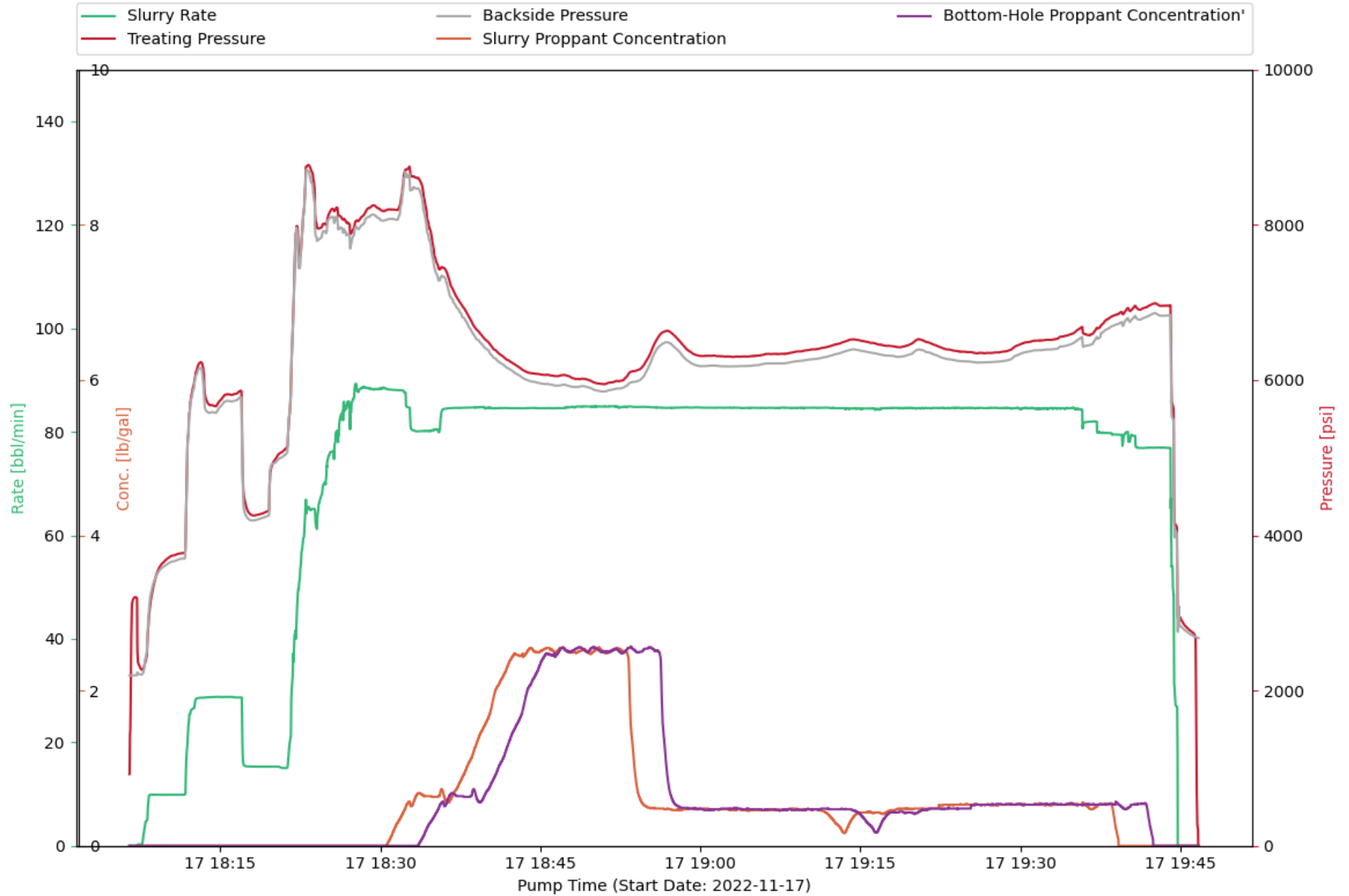
CHEMISTRY PLOT : Treatment Interval 22



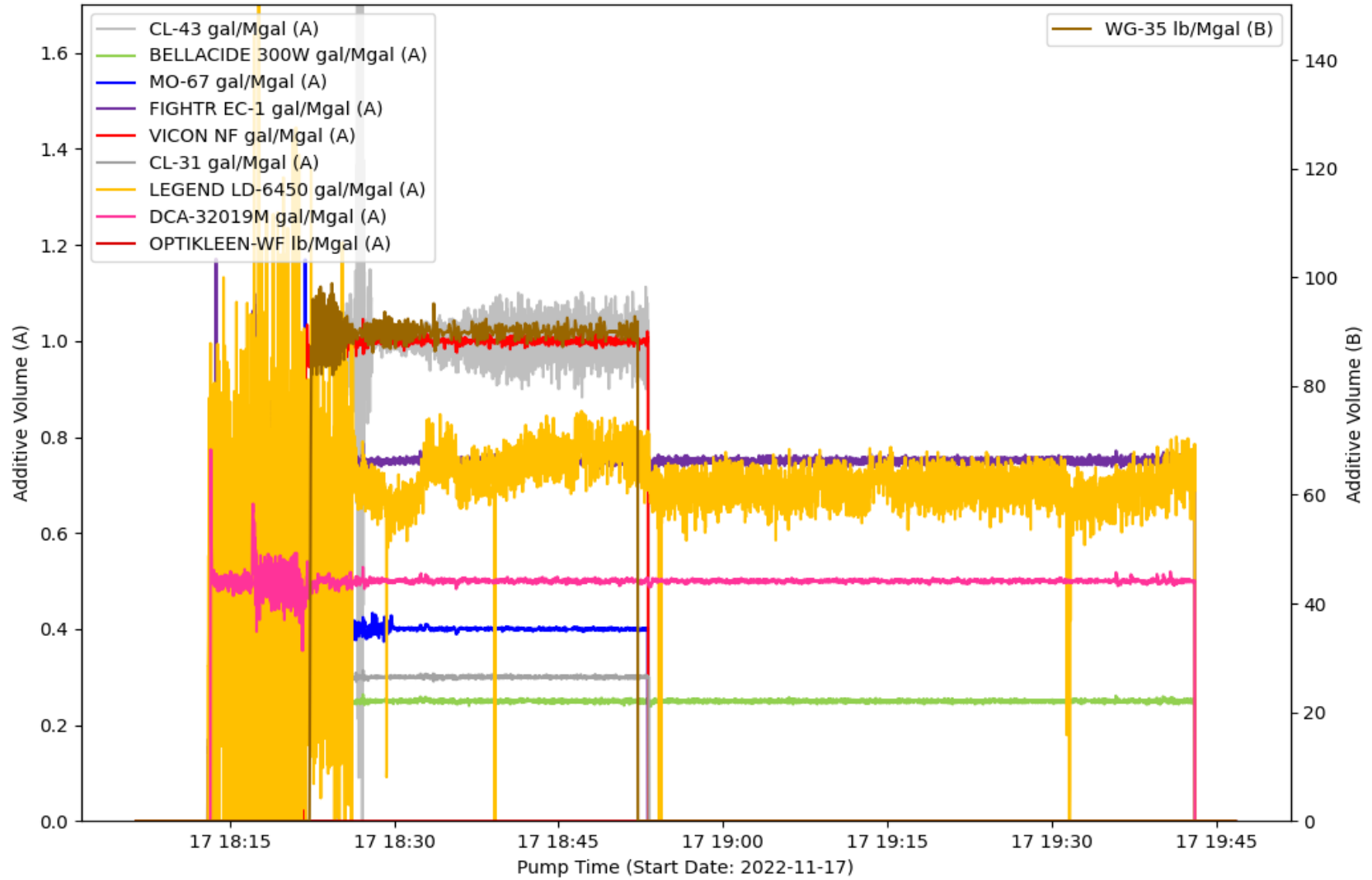
EVENT LOG : TREATMENT INTERVAL 22

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-17T13:02:20	0	2274	0	0	0	0	0
2	Start Pumping	2022-11-17T13:03:08	0	2322	0	0	0	0	0
3	Pump Acid	2022-11-17T13:05:36	9.81	2852	0	0	913.13	913.12	0
4	Ball on Seat	2022-11-17T13:18:33	15.18	3582	0	0	9362	9362	0
5	Break Formation	2022-11-17T13:19:16	15.05	4299	0	0	9812	9812	0
6	Pump Xlink Pill	2022-11-17T13:25:59	77.69	6882	0	0	25251	25251	0
7	Stop Pumping	2022-11-17T14:50:46	19.84	3383	0	0	334012	343358	205906
8	ISIP	2022-11-17T14:50:51	4.37	2881	0	0	334050	343396	205906

TREATMENT PLOT : Treatment Interval 23



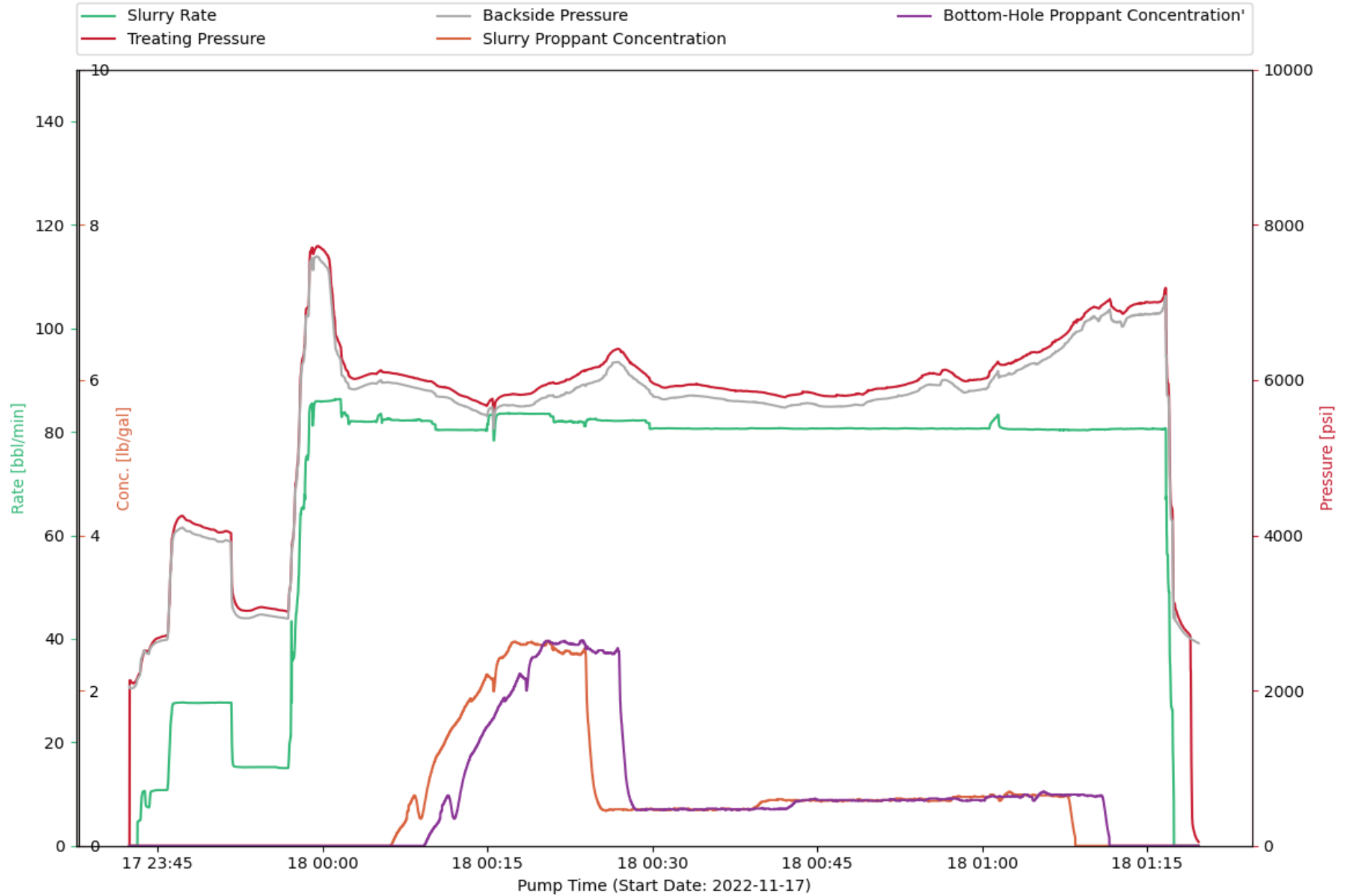
CHEMISTRY PLOT : Treatment Interval 23



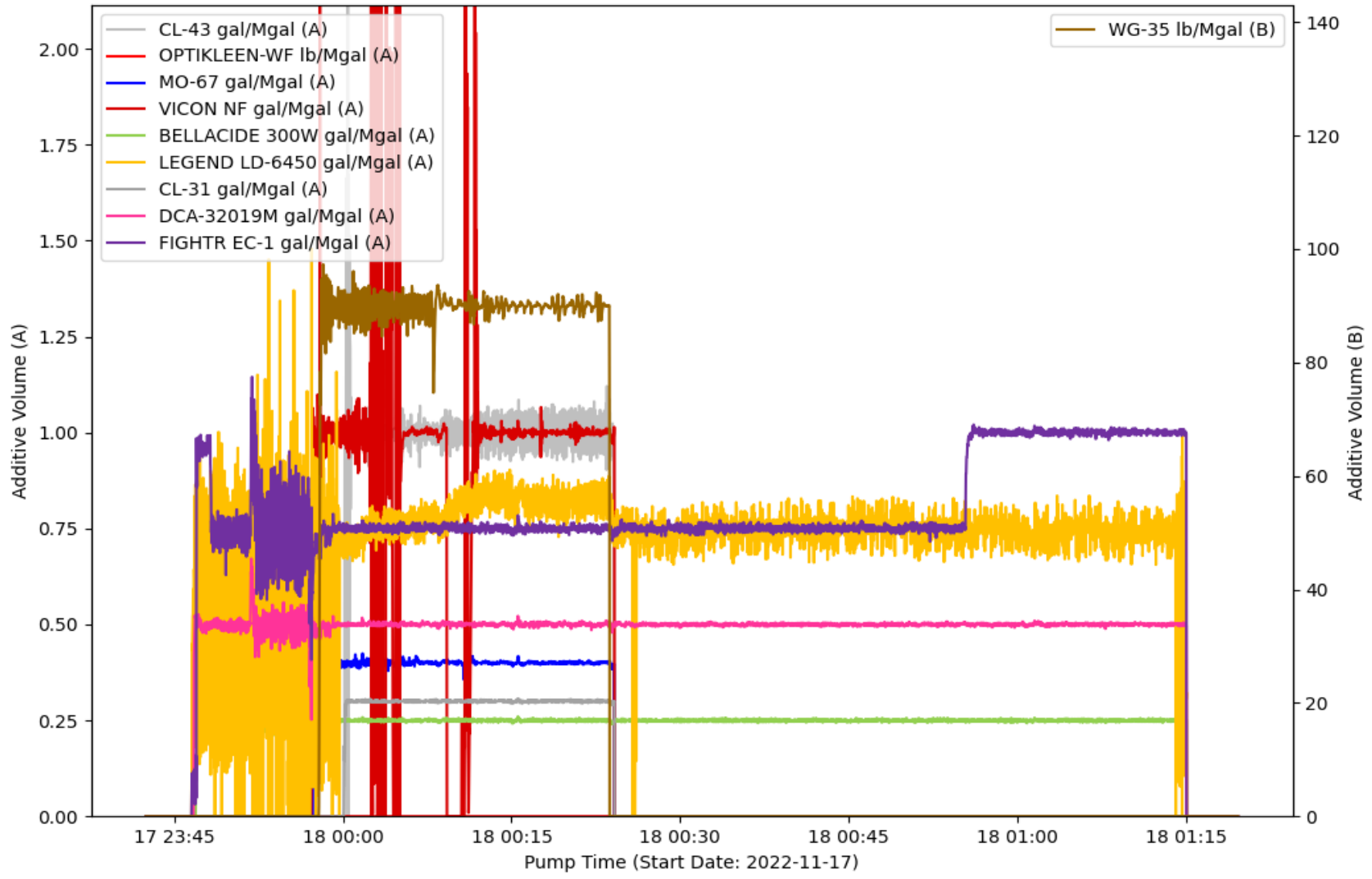
EVENT LOG : TREATMENT INTERVAL 23

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-17T18:07:29	0.26	2296	0	0	0.18	0.18	0
2	Start Pumping	2022-11-17T18:07:40	0.26	2267	0	0	2.16	2.16	0
3	Pump Acid	2022-11-17T18:10:03	9.84	3702	0	0	842.24	842.25	0
4	Ball on Seat	2022-11-17T18:19:32	15.31	4317	0	0	9371	9370	0
5	Break Formation	2022-11-17T18:21:11	15.02	5125	0	0	10424	10424	0
6	Pump Xlink Pill	2022-11-17T18:27:14	83.78	7887	0	0	26678	26678	0
7	Stop Pumping	2022-11-17T19:44:44	17.39	2999	0	0	289875	299148	204292
8	ISIP	2022-11-17T19:44:46	0	2934	0	0	289875	299148	204292
9	Shut In Well	2022-11-17T19:45:42	0	2796	0	0	289875	299148	204292

TREATMENT PLOT : Treatment Interval 24



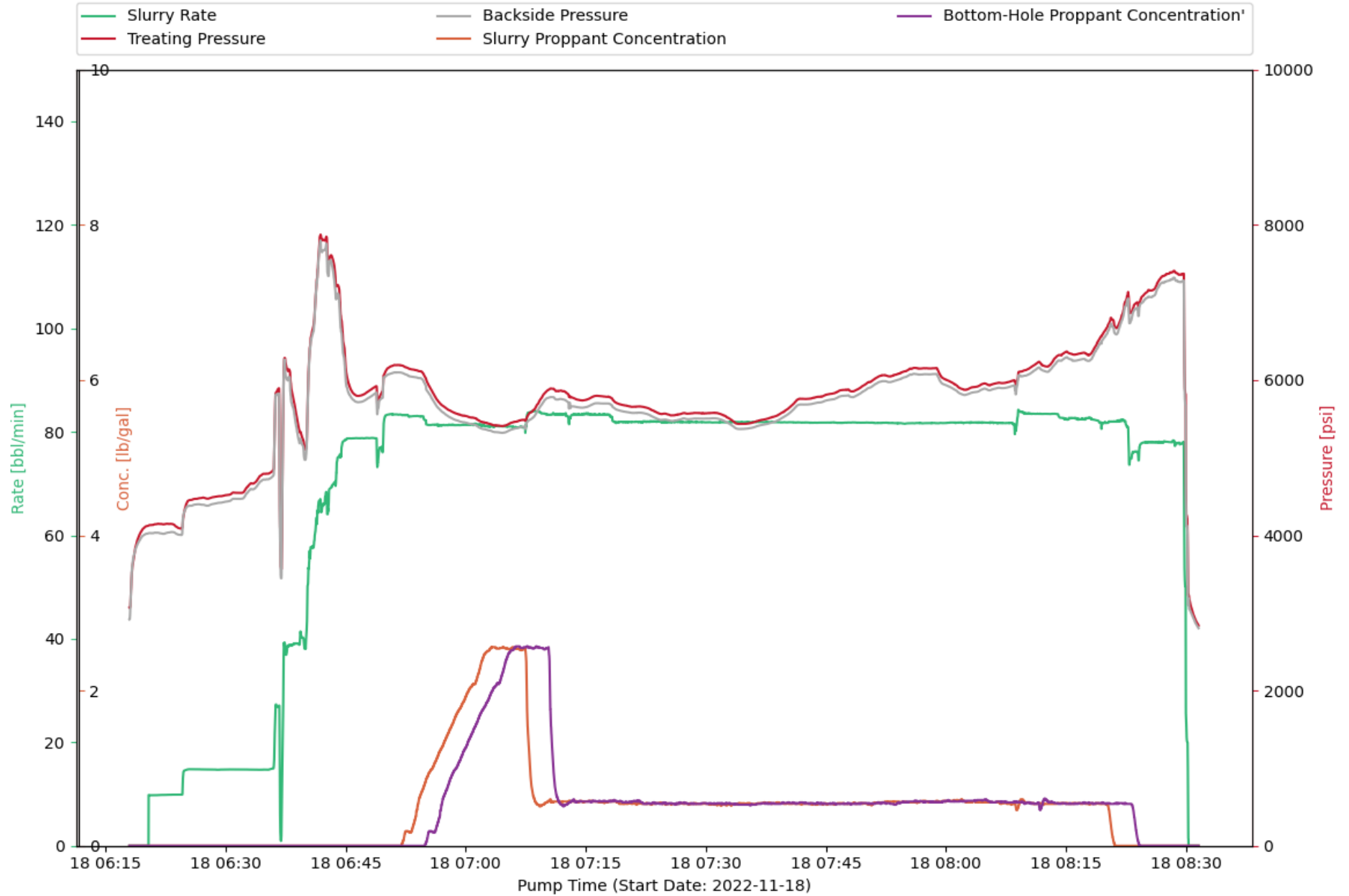
CHEMISTRY PLOT : Treatment Interval 24



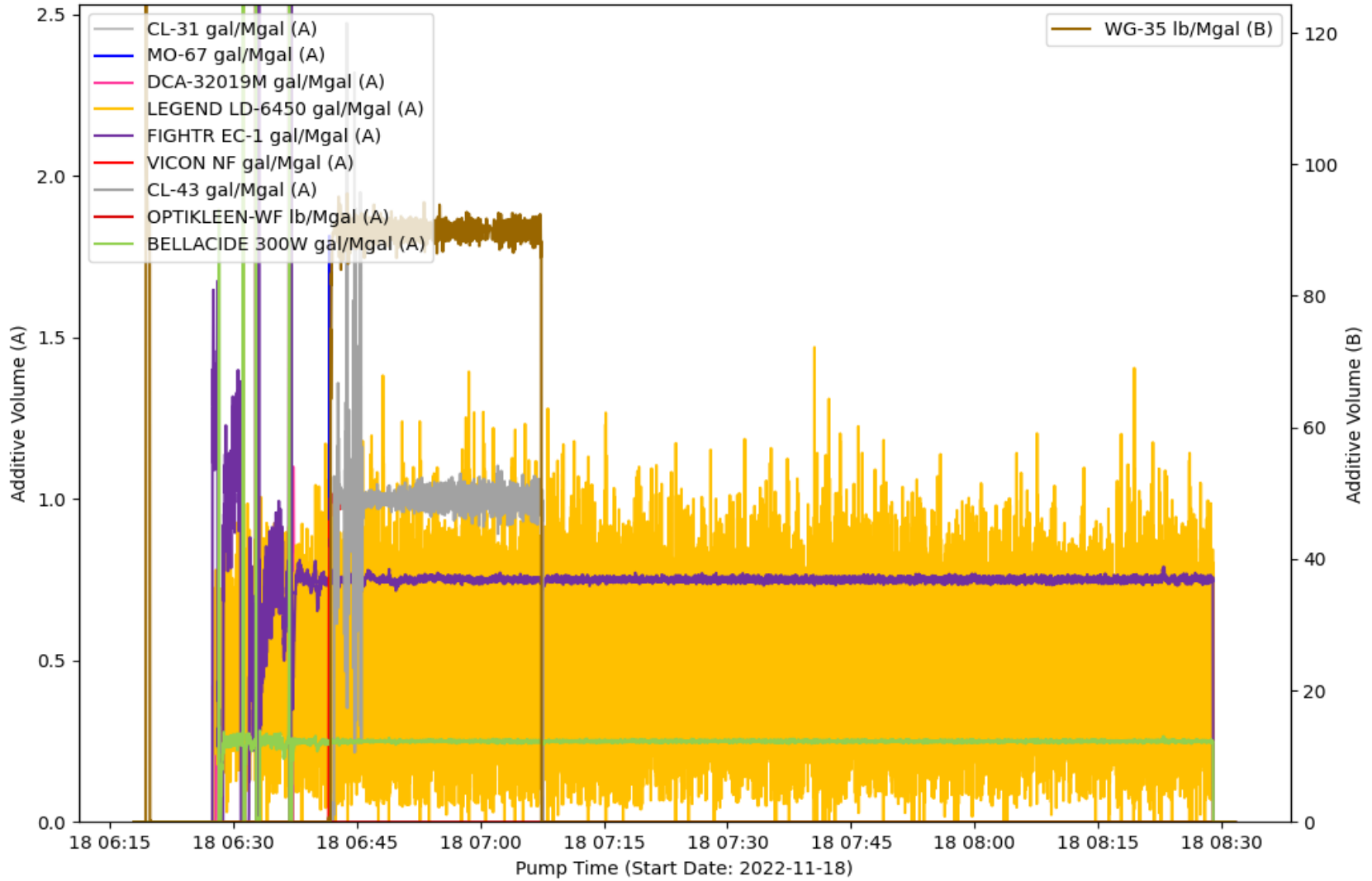
EVENT LOG : TREATMENT INTERVAL 24

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-17T23:42:41	0	2101	0	0	0	0	0
2	Start Pumping	2022-11-17T23:43:07	0	2147	0	0	0	0	0
3	Start Avg Trt 24	2022-11-17T23:44:30	10.57	2605	0	0	7.51	7.51	0
4	Pump Acid	2022-11-17T23:44:34	10.6	2621	0	0	37.4	37.4	0
5	Ball on Seat	2022-11-17T23:53:58	15.19	3058	0	0	8701	8701	0
6	Break Formation	2022-11-17T23:55:08	15.22	3061	0	0	9454	9454	0
7	Pump Xlink Pill	2022-11-18T00:04:24	81.97	6081	0	0	34518	34518	0
8	Stop Pumping	2022-11-18T01:17:24	8.75	3120	0	0	273630	282046	185401
9	ISIP	2022-11-18T01:17:25	0	3116	0	0	273630	282046	185401
10	Shut In Well	2022-11-18T01:18:39	0	2749	0	0	273630	282046	185401

TREATMENT PLOT : Treatment Interval 25



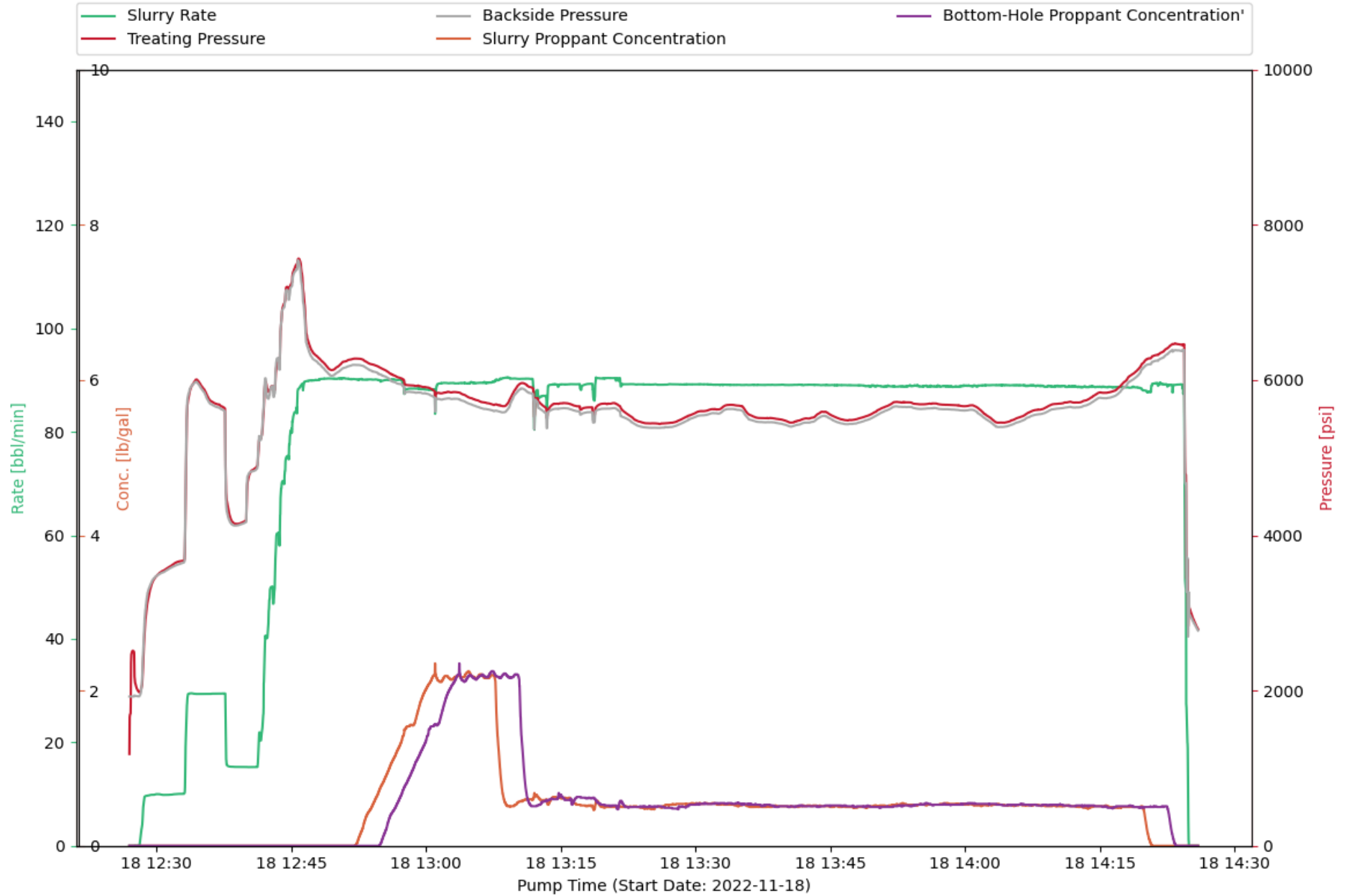
CHEMISTRY PLOT : Treatment Interval 25



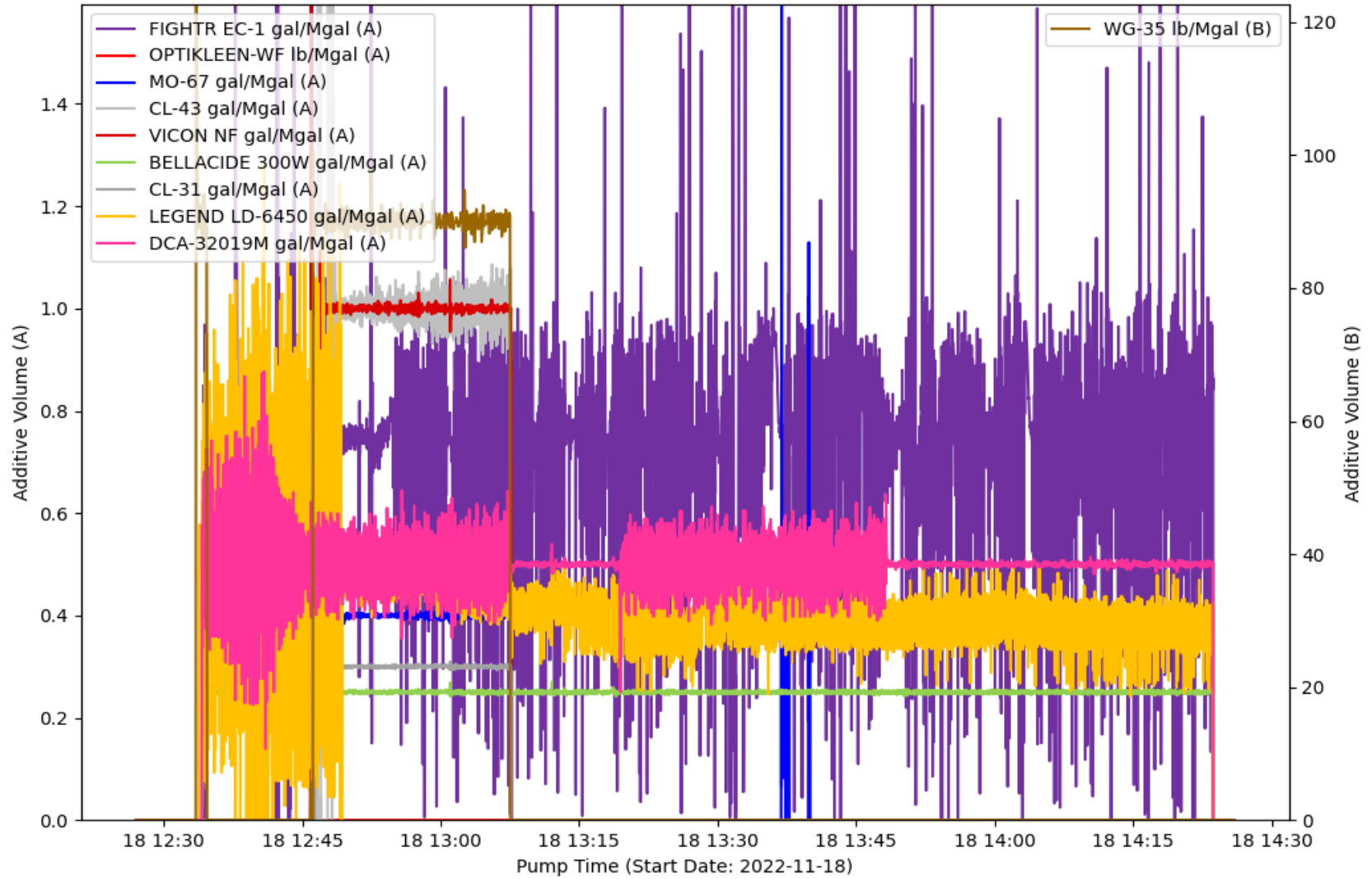
EVENT LOG : TREATMENT INTERVAL 25

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-18T06:18:02	0	3063	0	0	0	0	0
2	Start Pumping	2022-11-18T06:20:20	0	4124	0	0	0	0	0
3	Pump Acid	2022-11-18T06:20:34	9.78	4132	0	0	76.32	76.32	0
4	Ball on Seat	2022-11-18T06:35:23	14.71	4795	0	0	8410	8410	0
5	Break Formation	2022-11-18T06:36:01	15.11	4853	0	0	8799	8799	0
6	Pump Xlink Pill	2022-11-18T06:45:51	78.73	5844	0	0	30970	30970	0
7	Stop Pumping	2022-11-18T08:29:58	50.07	5815	0	0	377914	387876	219486
8	ISIP	2022-11-18T08:30:21	0	3232	0	0	378190	388151	219486
9	Shut In Well	2022-11-18T08:31:34	0	2841	0	0	378190	388151	219486

TREATMENT PLOT : Treatment Interval 26



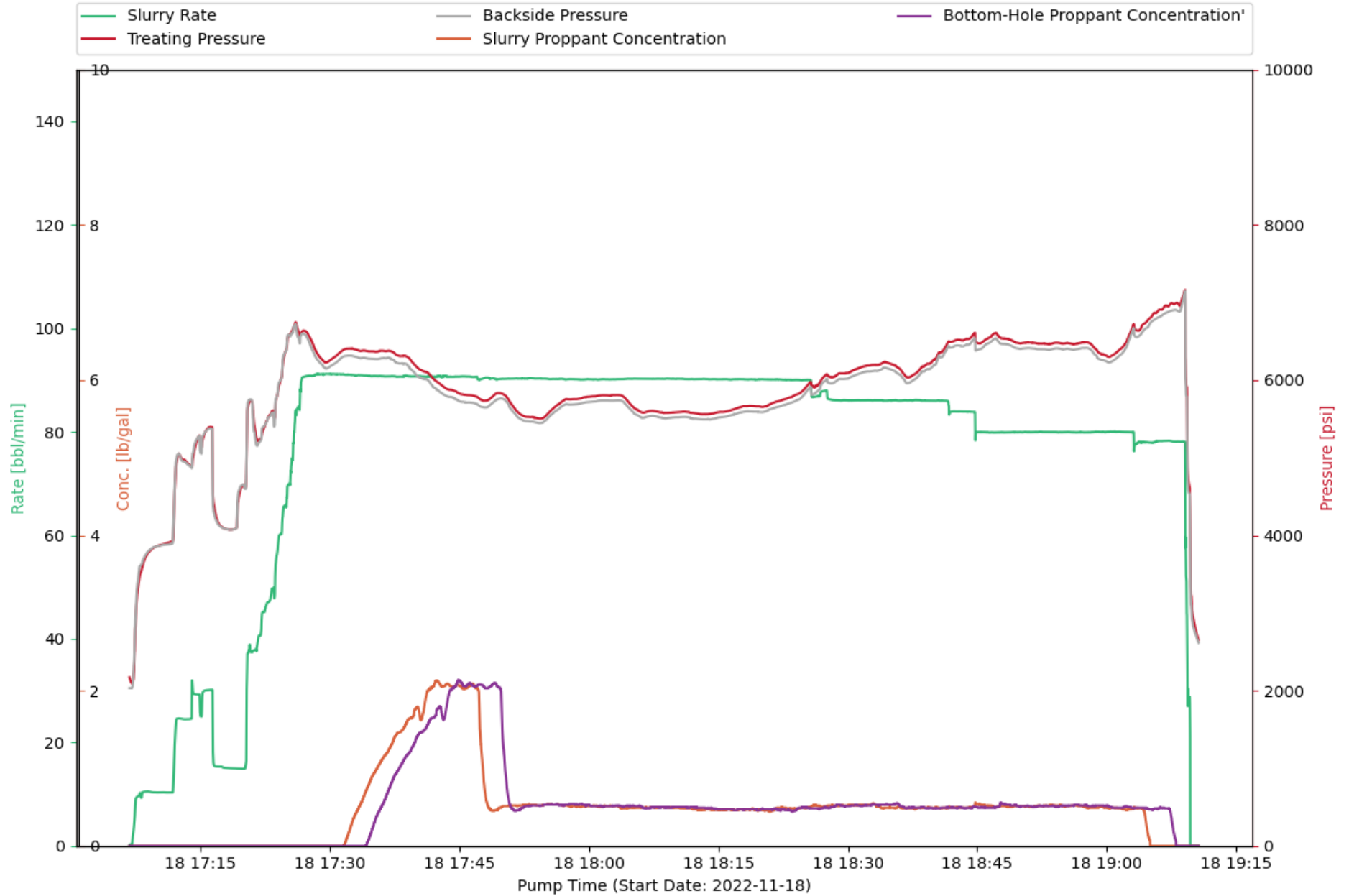
CHEMISTRY PLOT : Treatment Interval 26



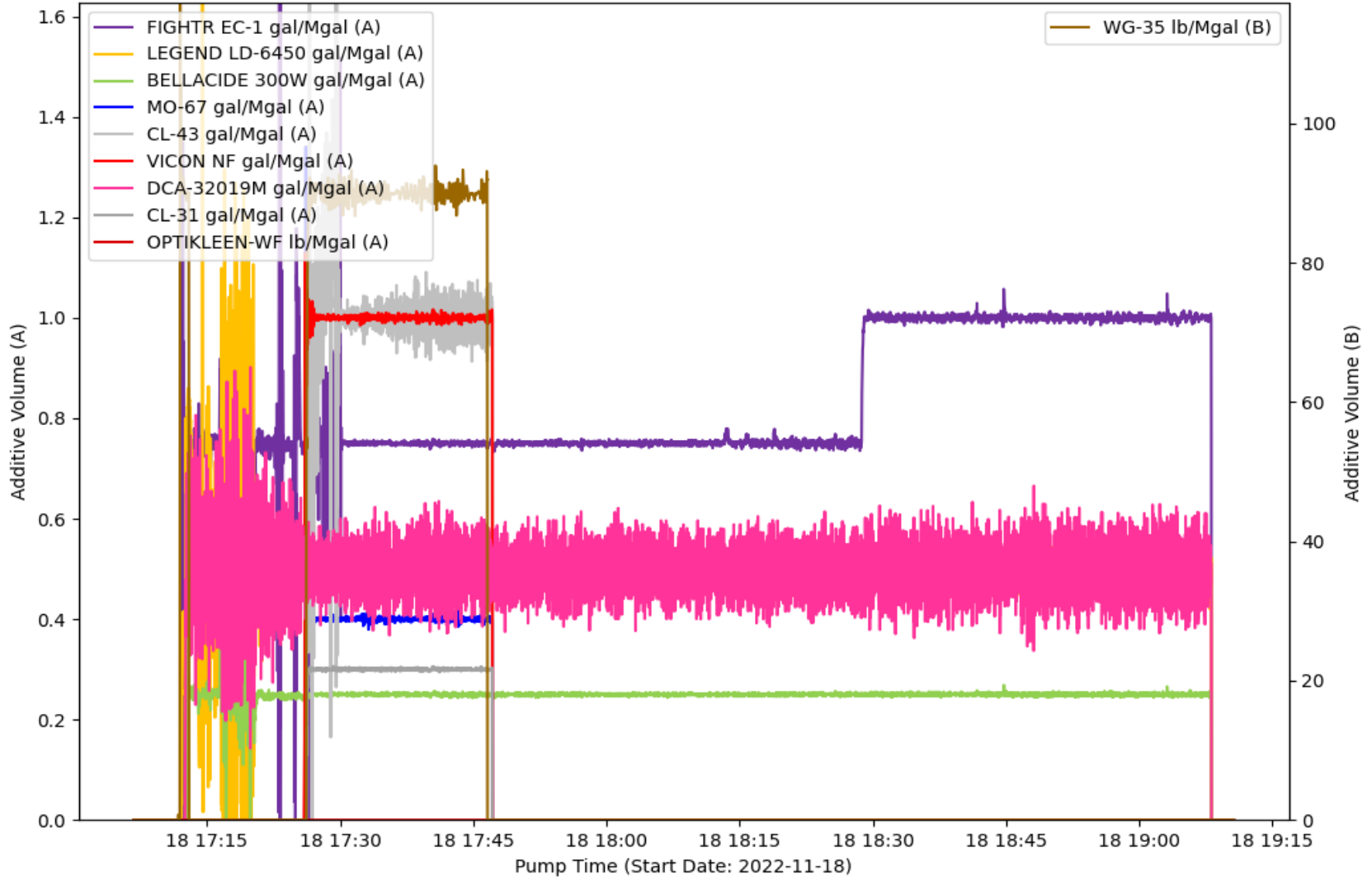
EVENT LOG : TREATMENT INTERVAL 26

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-18T12:27:48	0.02	2033	0	0	0.01	0.01	0
2	Start Pumping	2022-11-18T12:28:28	5.05	2198	0	0	37.25	37.24	0
3	Pump Acid	2022-11-18T12:29:59	9.99	3473	0	0	644.26	644.26	0
4	Ball on Seat	2022-11-18T12:40:01	15.23	4280	0	0	8981	8981	0
5	Break Formation	2022-11-18T12:41:03	15.23	4868	0	0	9648	9648	0
6	Pump Xlink Pill	2022-11-18T12:49:36	90.28	6130	0	0	35114	35114	0
7	Stop Pumping	2022-11-18T14:24:41	22.32	3482	0	0	380195	390467	226361
8	ISIP	2022-11-18T14:24:51	1.89	3004	0	0	380296	390568	226361
9	Shut In Well	2022-11-18T14:25:54	0	2795	0	0	380297	390569	226361

TREATMENT PLOT : Treatment Interval 27



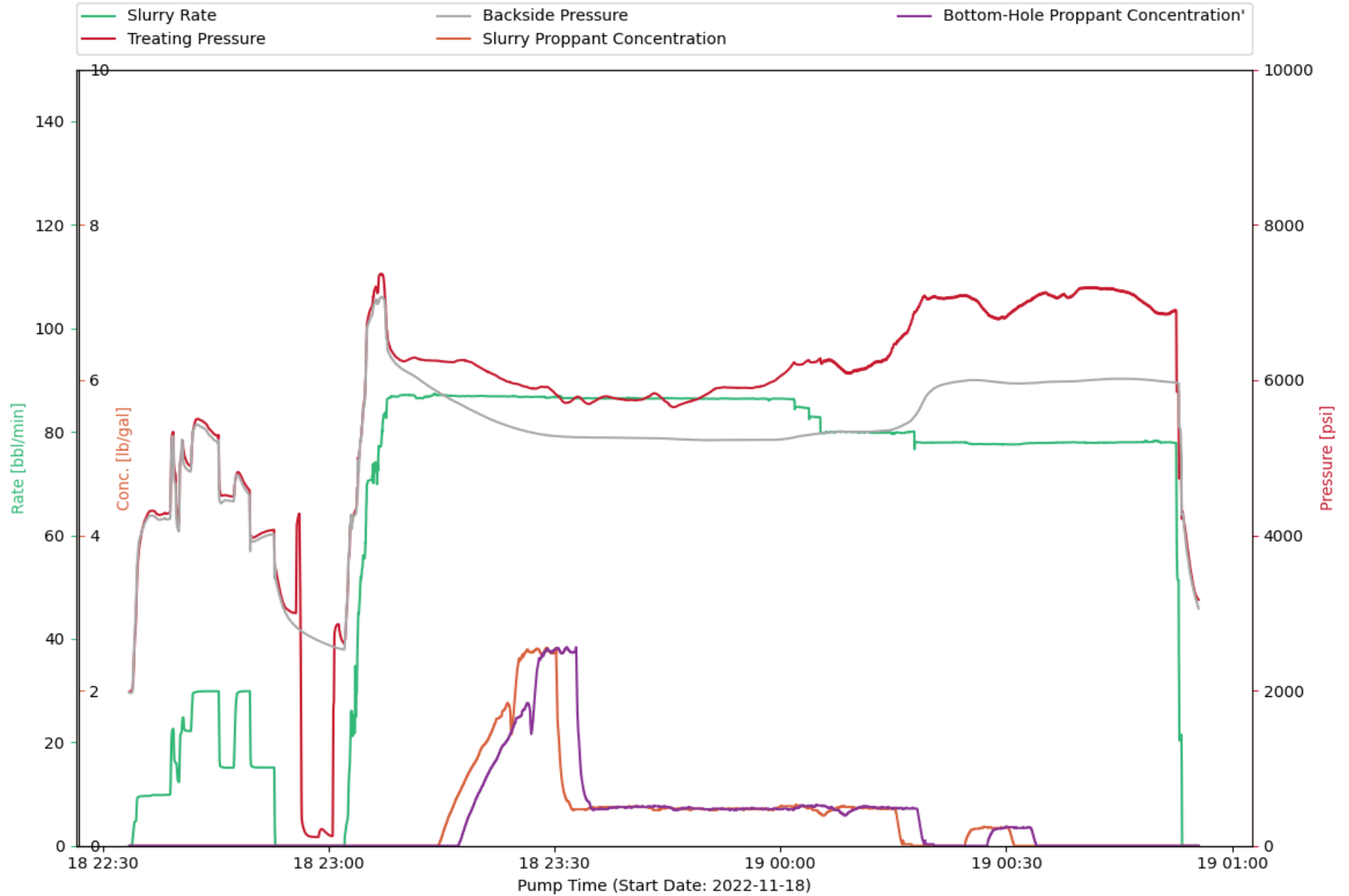
CHEMISTRY PLOT : Treatment Interval 27



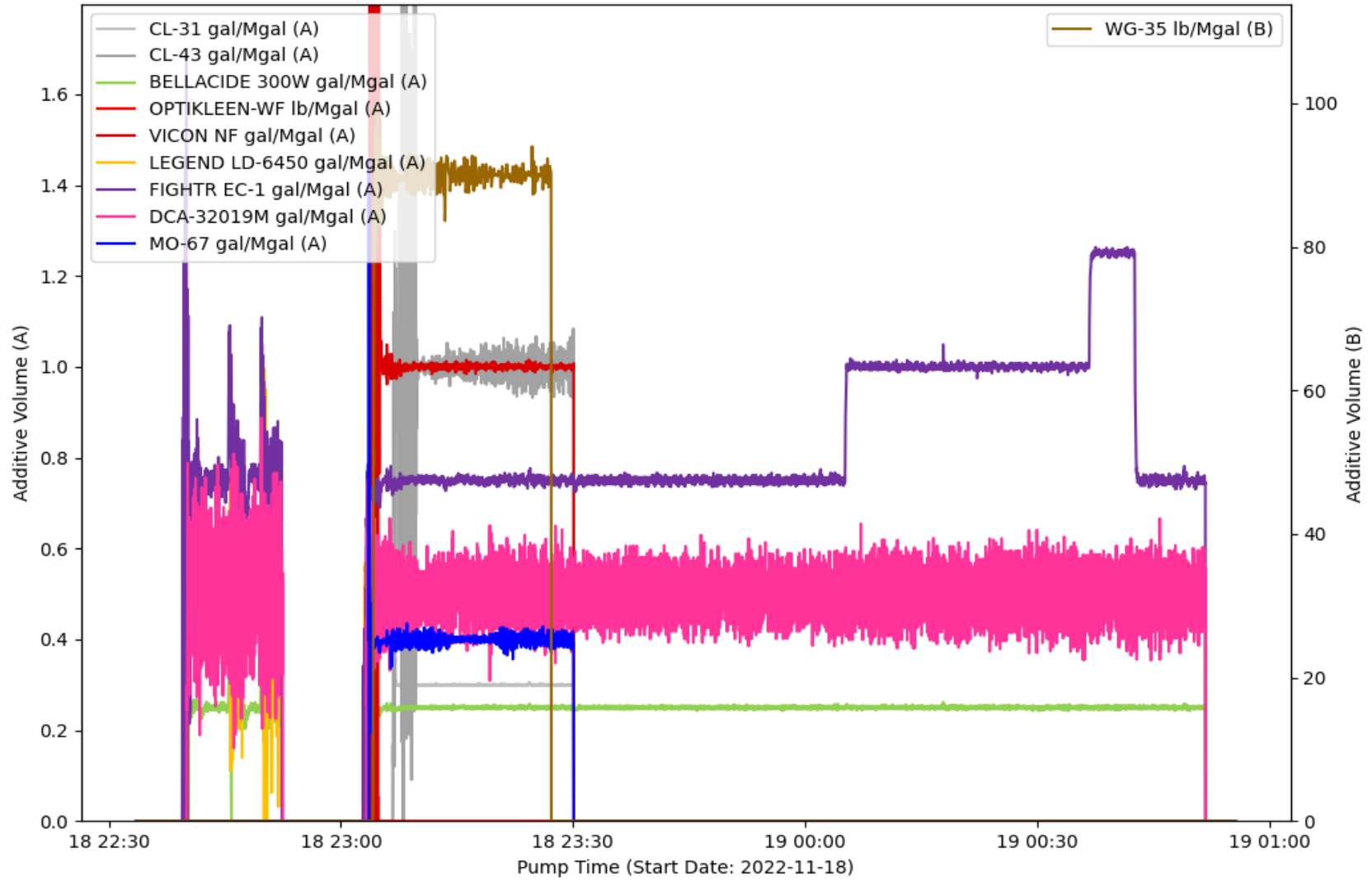
EVENT LOG : TREATMENT INTERVAL 27

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-18T17:06:47	0.25	2155	0	0	0.18	0.18	0
2	Start Pumping	2022-11-18T17:07:02	0.22	2091	0	0	2.66	2.66	0
3	Pump Acid	2022-11-18T17:08:43	10.48	3740	0	0	594.62	594.6	0
4	Ball on Seat	2022-11-18T17:19:11	14.93	4102	0	0	8846	8846	0
5	Break Formation	2022-11-18T17:20:02	14.91	4648	0	0	9373	9373	0
6	Pump Xlink Pill	2022-11-18T17:28:43	91.15	6307	0	0	32352	32352	0
7	Stop Pumping	2022-11-18T19:09:41	21.16	4063	0	0	389657	399626	219664
8	ISIP	2022-11-18T19:09:50	0	3171	0	0	389657	399626	219664
9	Shut In Well	2022-11-18T19:10:37	0	2662	0	0	389657	399626	219664

TREATMENT PLOT : Treatment Interval 28



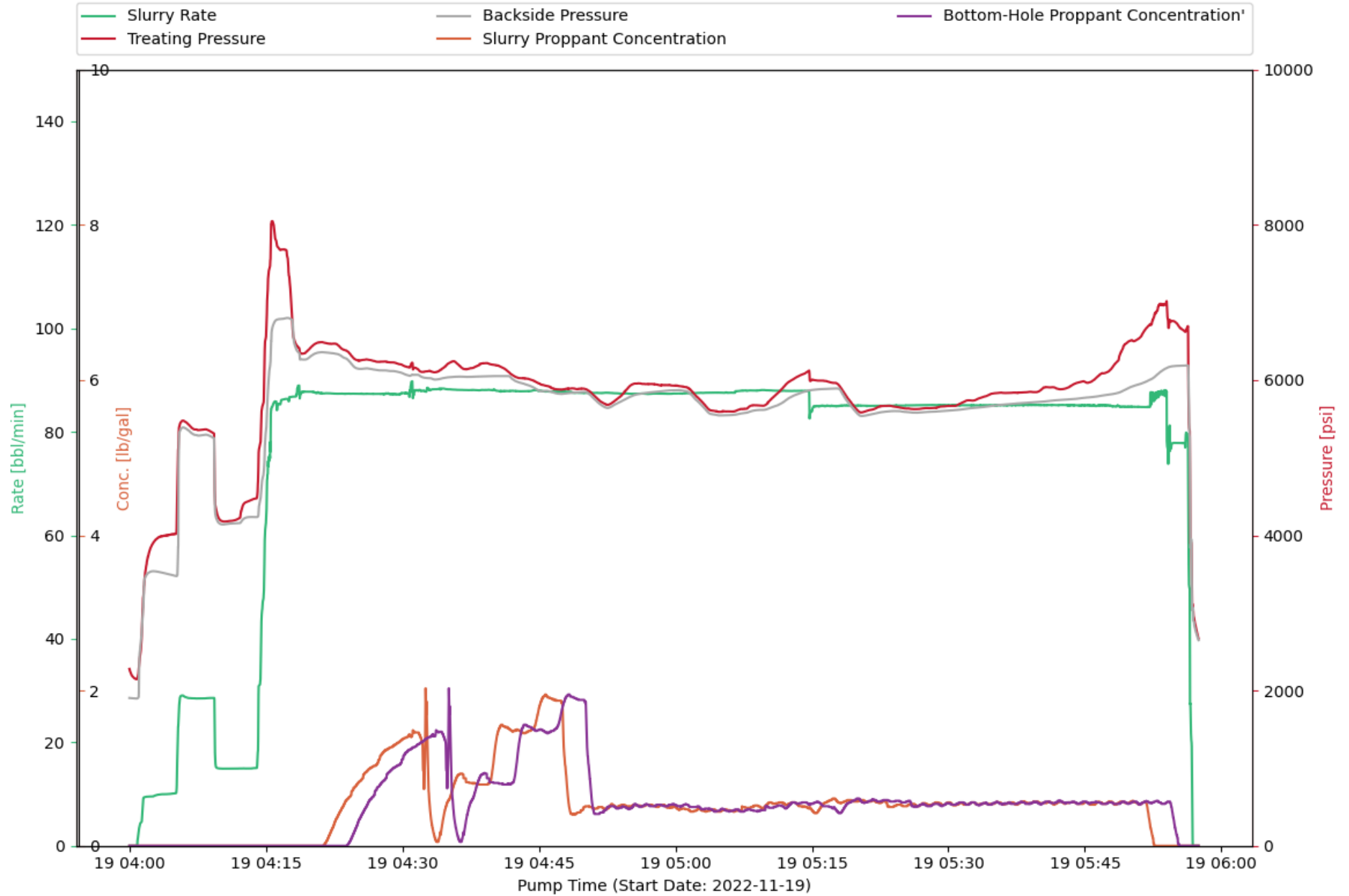
CHEMISTRY PLOT : Treatment Interval 28



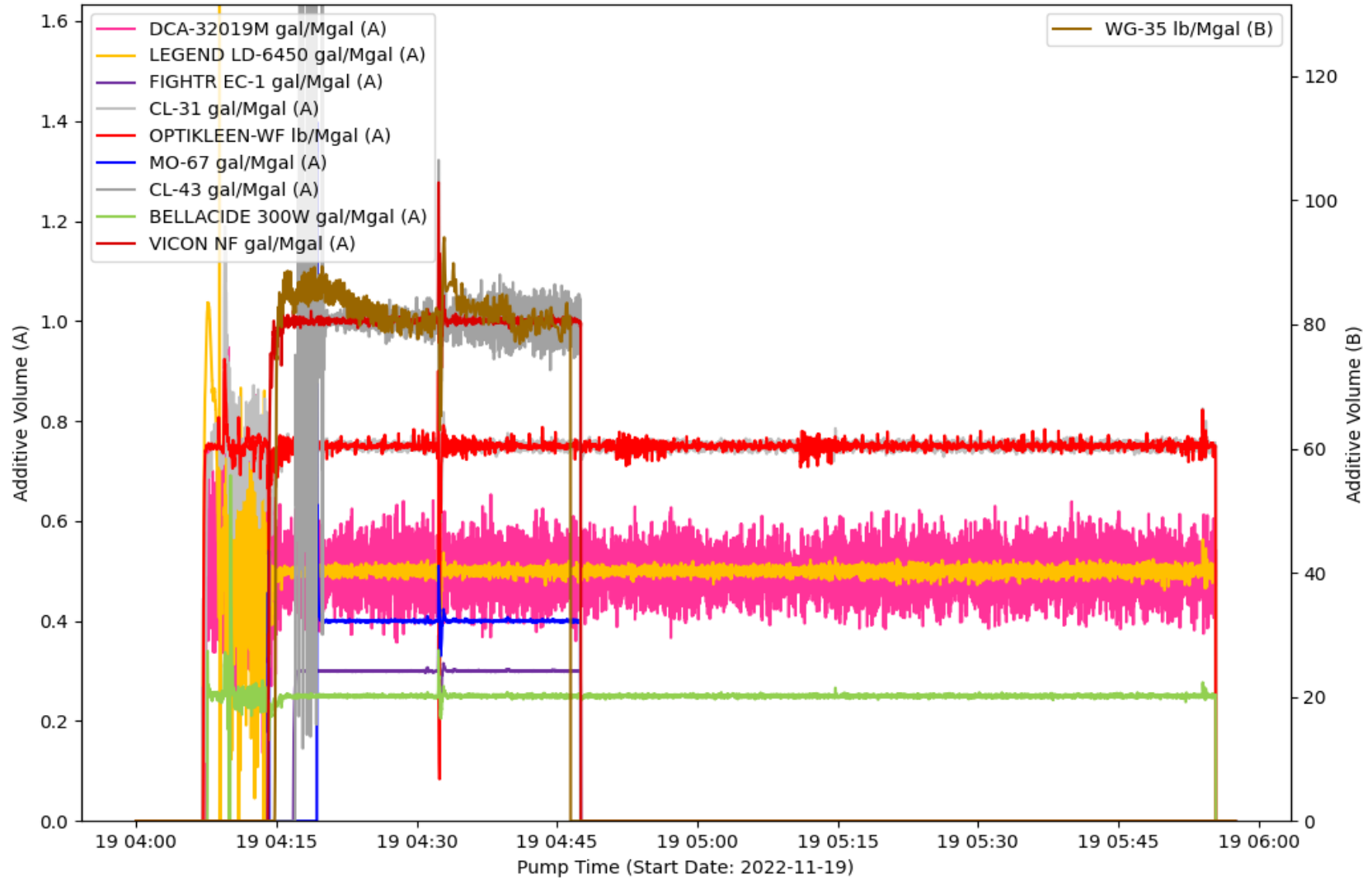
EVENT LOG : TREATMENT INTERVAL 28

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-18T22:33:35	0	1986	0	0	0	0	0
2	Start Pumping	2022-11-18T22:33:58	1.29	2035	0	0	2.27	2.27	0
3	Pump Acid	2022-11-18T22:36:21	9.7	4314	0	0	838.8	838.78	0
4	Ball on Seat	2022-11-18T22:47:14	15.1	4501	0	0	9979	9978	0
5	Break Formation	2022-11-18T22:47:57	29.59	4815	0	0	10673	10673	0
6	Stop Pumping	2022-11-18T22:52:57	0	3572	0	0	14783	14783	0
7	Start Pumping	2022-11-18T23:02:06	0	2618	0	0	14783	14783	0
8	Stop Pumping	2022-11-19T00:53:17	20.71	4509	0	0	385644	393147	165334
9	ISIP	2022-11-19T00:53:20	11.19	4215	0	0	385676	393179	165334
10	Shut In Well	2022-11-19T00:55:31	0	3174	0	0	385676	393179	165334

TREATMENT PLOT : Treatment Interval 29



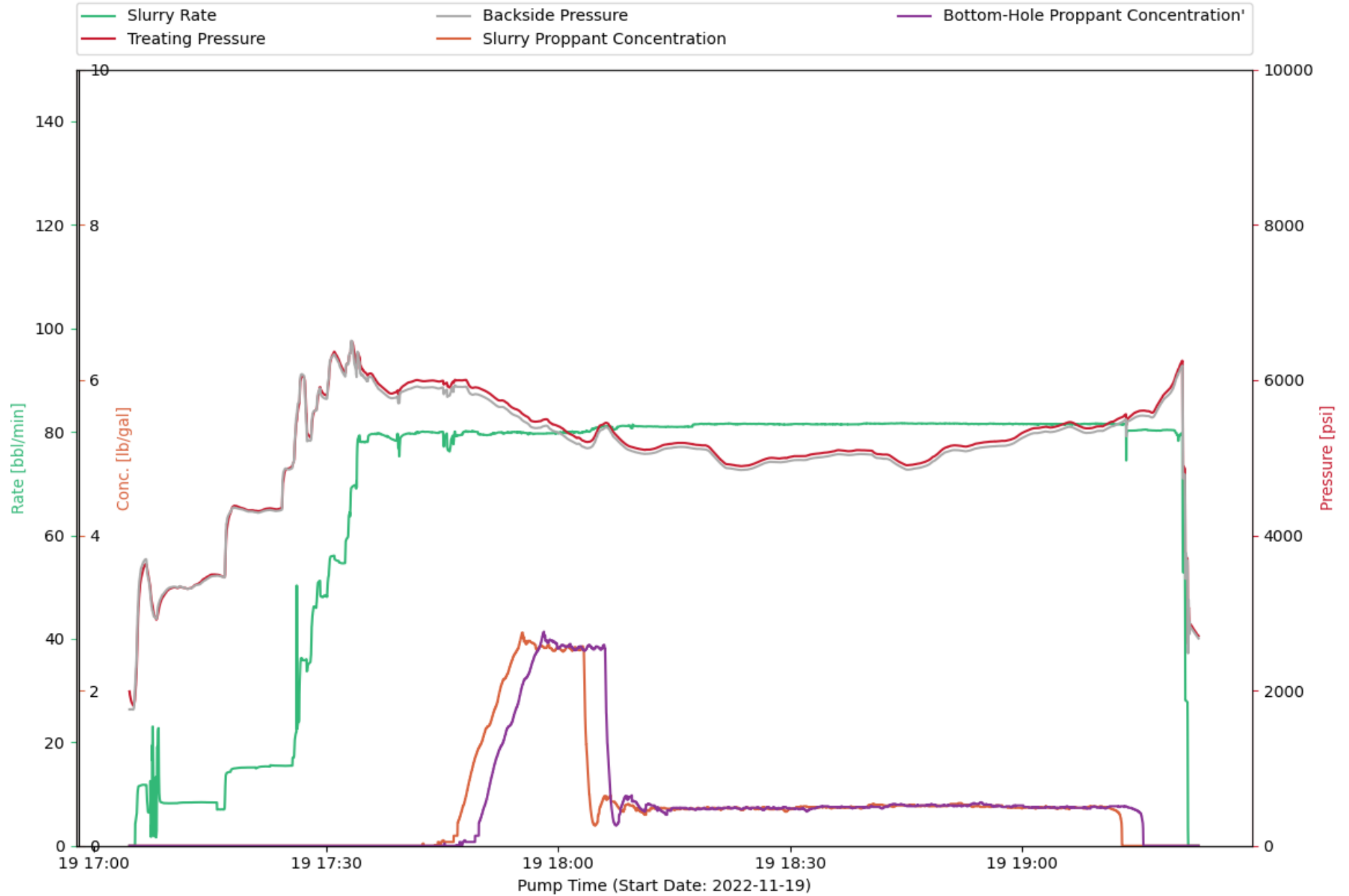
CHEMISTRY PLOT : Treatment Interval 29



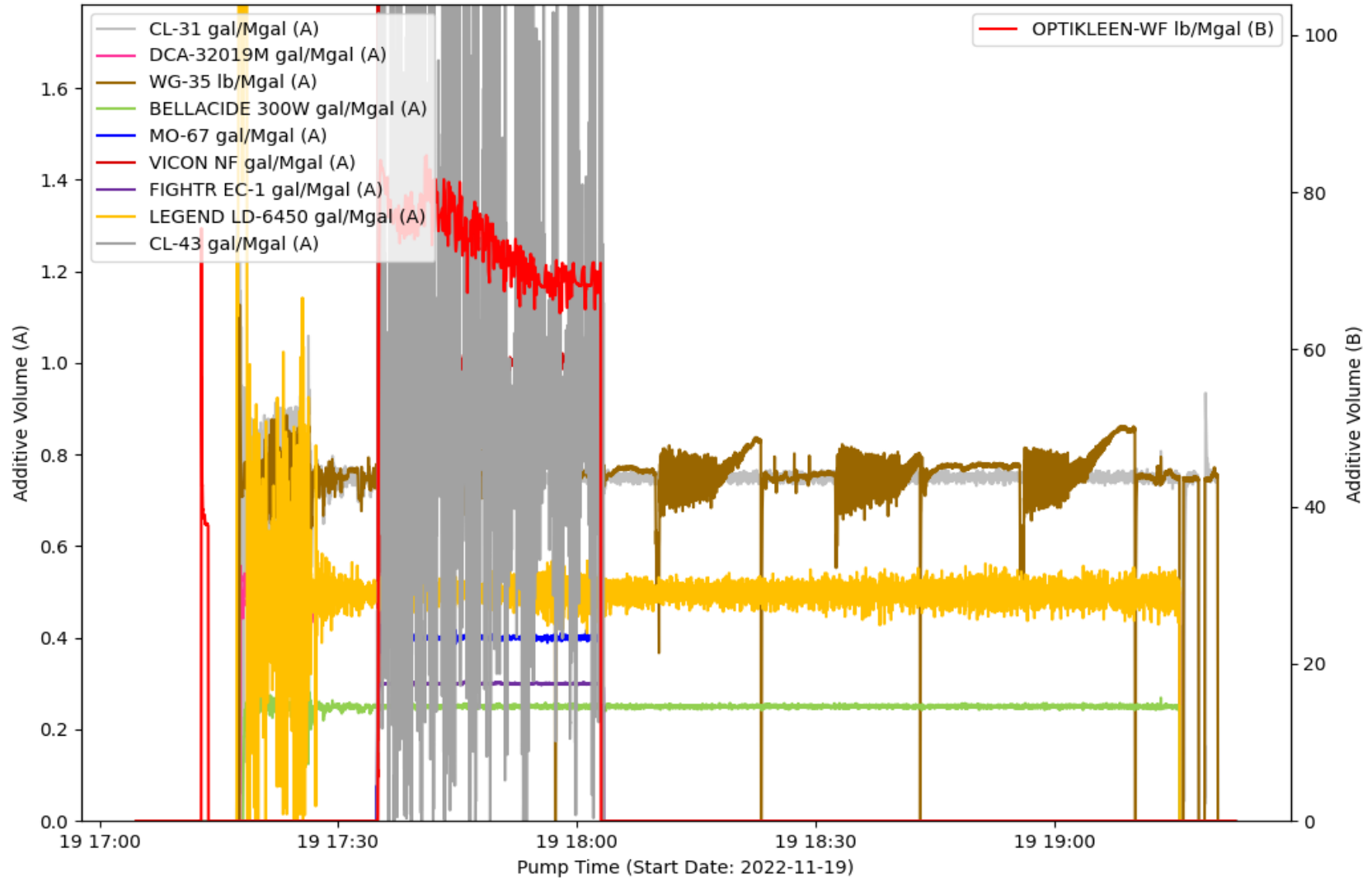
EVENT LOG : TREATMENT INTERVAL 29

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Start Avg Trt 29	2022-11-19T04:00:08	0	2226	0	0	0	0	0
2	Open Well	2022-11-19T04:00:27	0	2168	0	0	0	0	0
3	Start Pumping	2022-11-19T04:00:44	0	2146	0	0	0	0	0
4	Pump Acid	2022-11-19T04:02:25	9.54	3863	0	0	477.82	477.82	0
5	Ball on Seat	2022-11-19T04:11:27	14.92	4190	0	0	7873	7873	0
6	Break Formation	2022-11-19T04:13:34	14.99	4465	0	0	9205	9205	0
7	Pump Xlink Pill	2022-11-19T04:20:02	87.78	6432	0	0	29195	29195	0
8	Stop Pumping	2022-11-19T05:56:45	19.2	3546	0	0	369537	379469	218798
9	ISIP	2022-11-19T05:56:55	0	2978	0	0	369572	379503	218798
10	Shut In Well	2022-11-19T05:57:29	0	2675	0	0	369572	379503	218798

TREATMENT PLOT : Treatment Interval 30



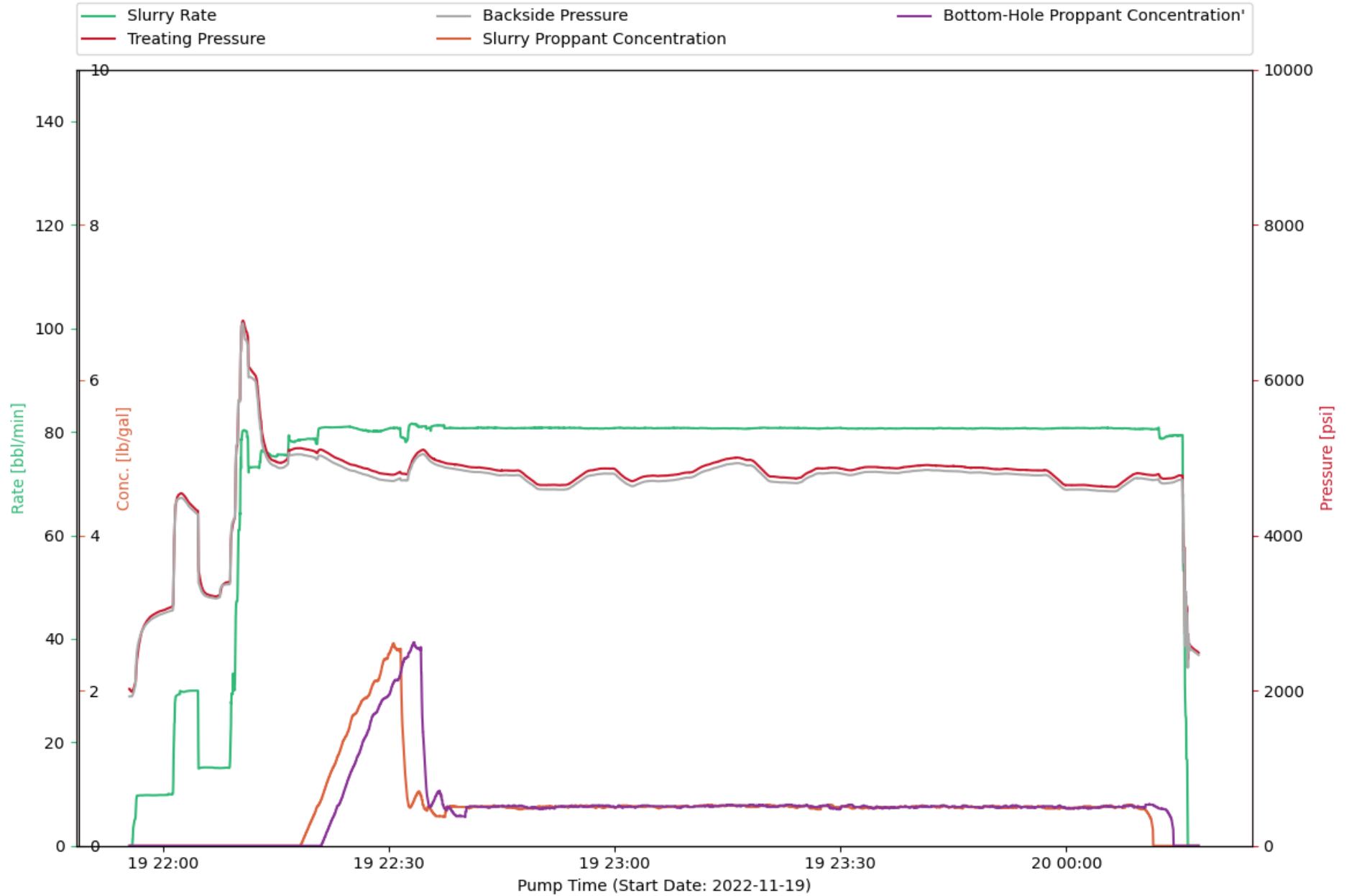
CHEMISTRY PLOT : Treatment Interval 30



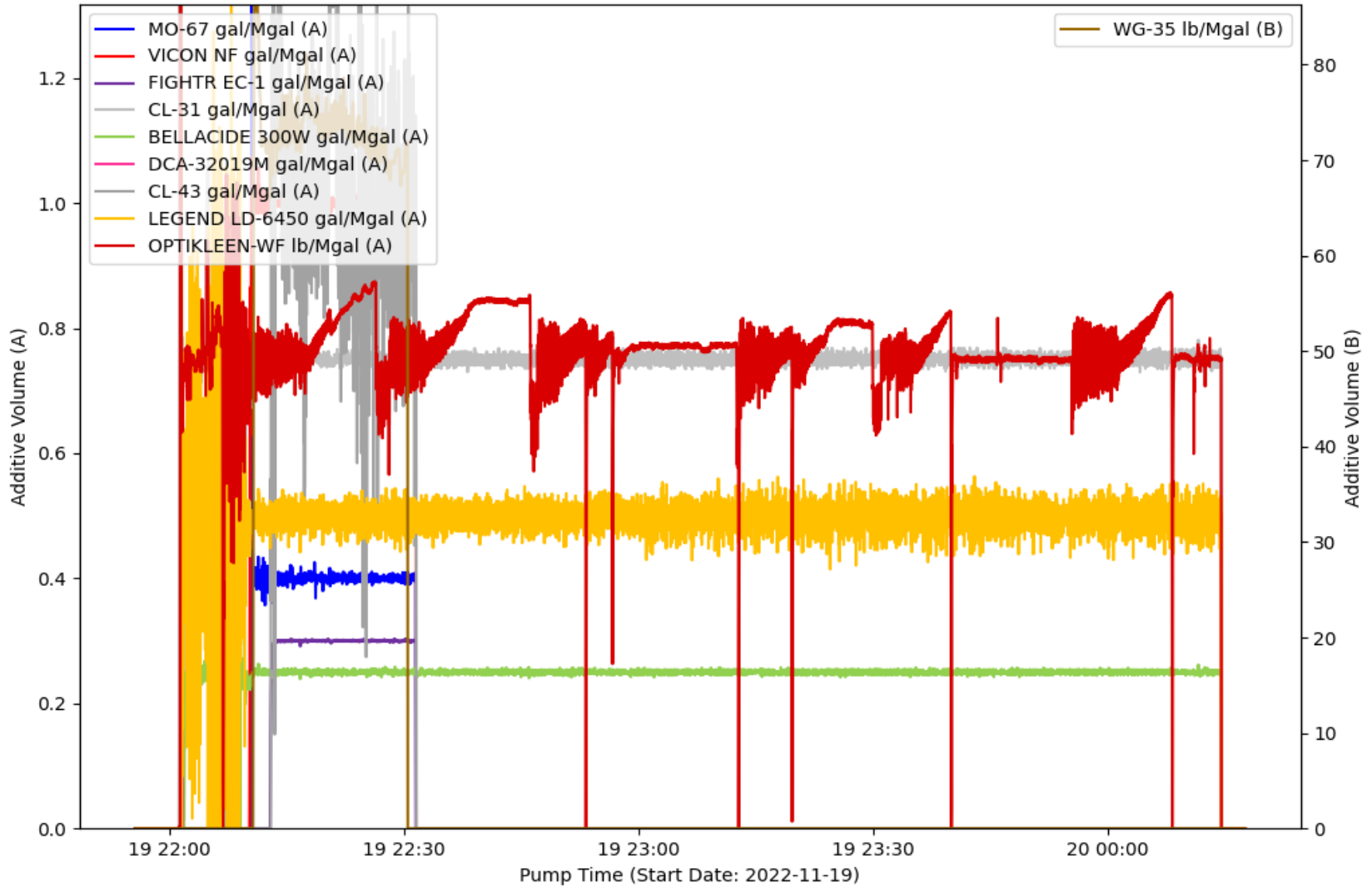
EVENT LOG : TREATMENT INTERVAL 30

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-19T17:04:39	0	1956	0	0	0	0	0
2	Start Pumping	2022-11-19T17:05:18	0	1875	0	0	0	0	0
3	Pump Acid	2022-11-19T17:11:35	8.36	3324	0	0	2423	2423	0
4	Ball on Seat	2022-11-19T17:24:15	15.48	4351	0	0	8879	8879	0
5	Break Formation	2022-11-19T17:25:37	15.48	4886	0	0	9765	9765	0
6	Pump Xlink Pill	2022-11-19T17:41:51	79.86	6000	0	0	52578	52578	0
7	Stop Pumping	2022-11-19T19:21:21	24.37	3592	0	0	379794	389757	219520
8	ISIP	2022-11-19T19:21:26	0	2607	0	0	379816	389779	219520
9	Shut In Well	2022-11-19T19:22:44	0	2705	0	0	379816	389779	219520

TREATMENT PLOT : Treatment Interval 31



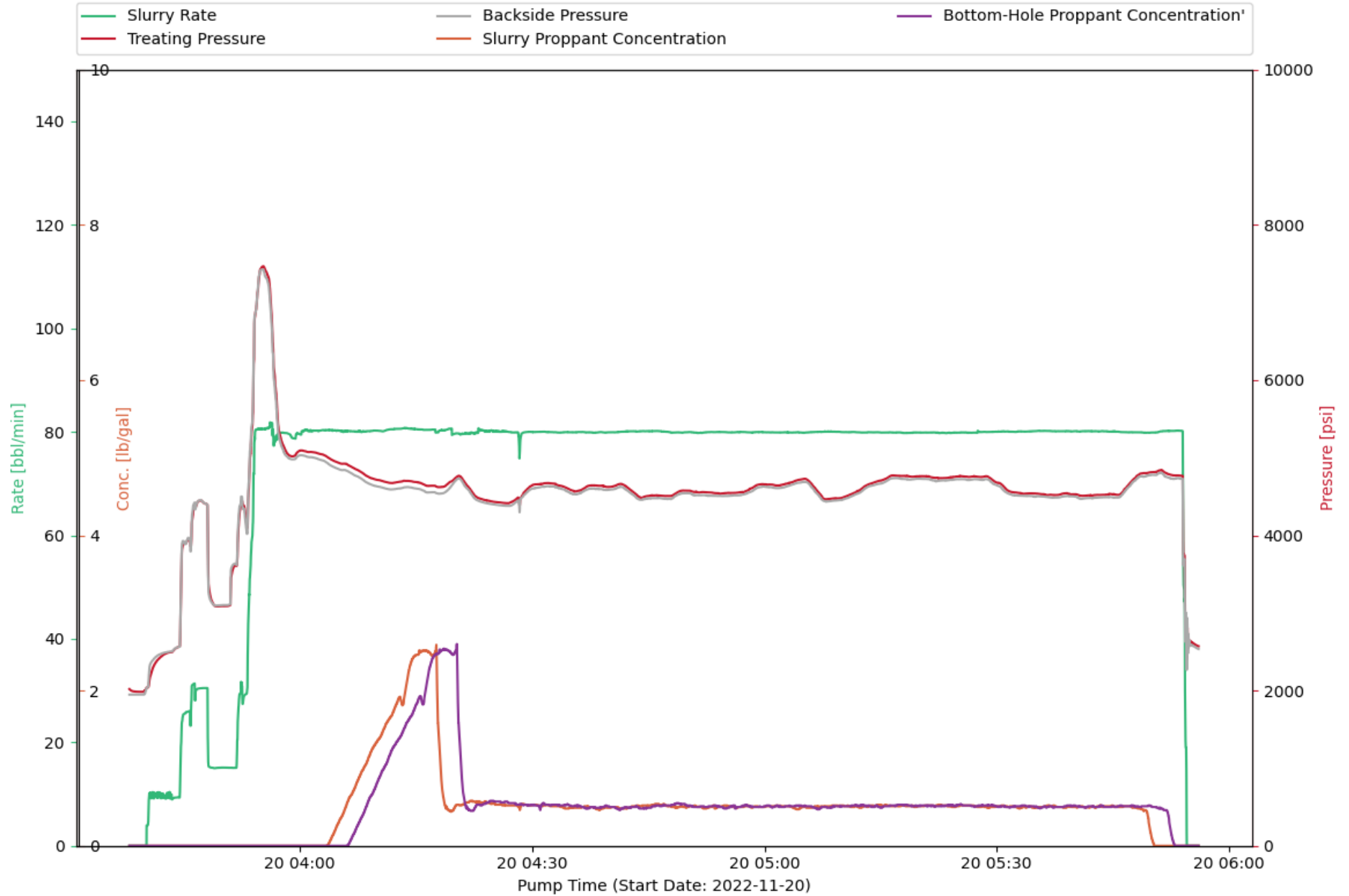
CHEMISTRY PLOT : Treatment Interval 31



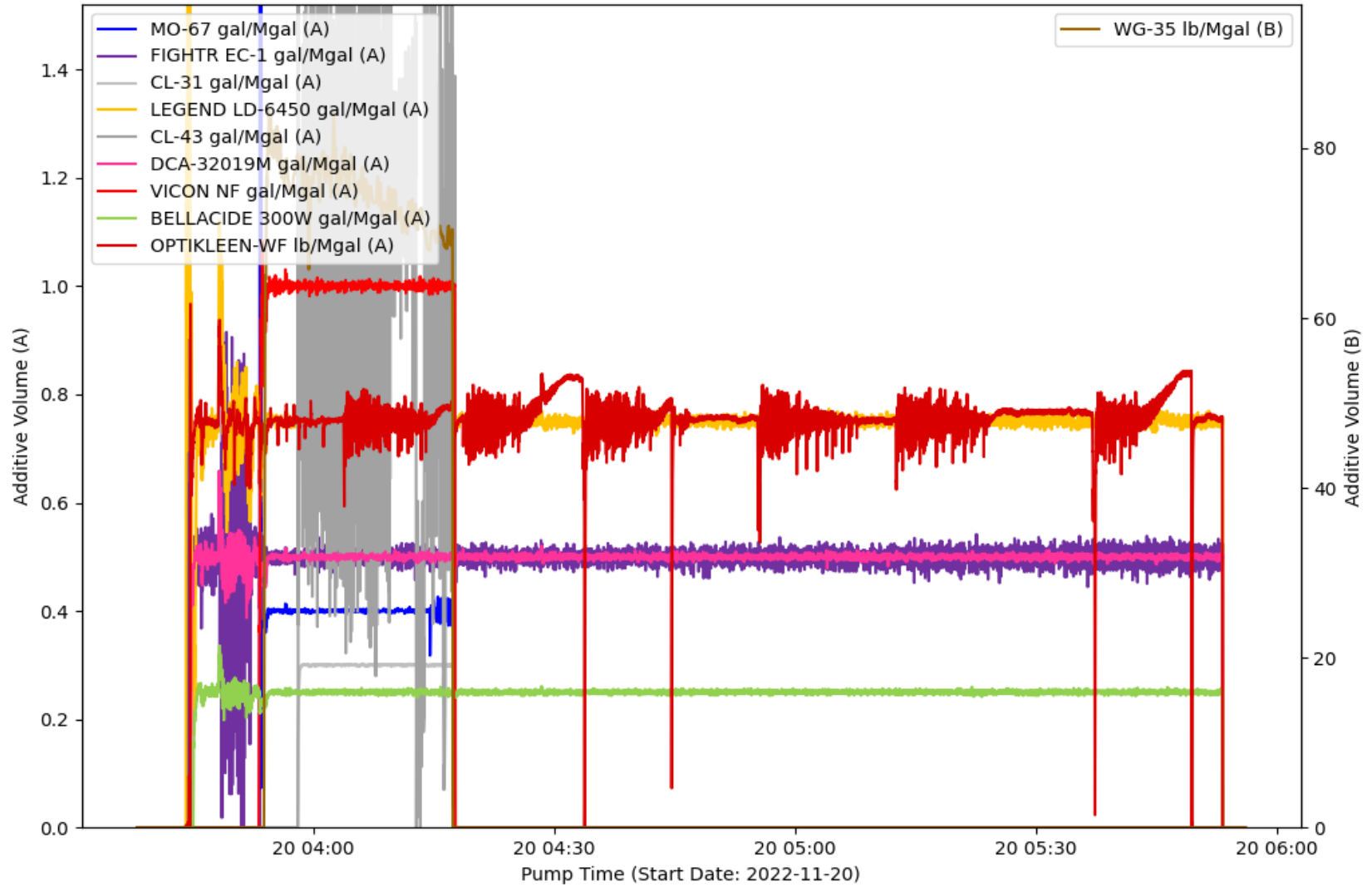
EVENT LOG : TREATMENT INTERVAL 31

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-19T21:55:34	0	2019	0	0	0	0	0
2	Start Pumping	2022-11-19T21:55:54	0	1991	0	0	0	0	0
3	Pump Acid	2022-11-19T21:58:33	9.77	2968	0	0	968.69	968.69	0
4	Ball on Seat	2022-11-19T22:07:27	15.04	3227	0	0	7955	7955	0
5	Break Formation	2022-11-19T22:10:07	61.13	5734	0	0	10830	10830	0
6	Pump Xlink Pill	2022-11-19T22:17:16	78.11	5111	0	0	33553	33553	0
7	Stop Pumping	2022-11-20T00:16:03	16.63	3070	0	0	424146	434499	228059
8	ISIP	2022-11-20T00:16:11	0	2623	0	0	424173	434525	228059
9	Shut In Well	2022-11-20T00:17:32	0	2492	0	0	424173	434525	228059

TREATMENT PLOT : Treatment Interval 32



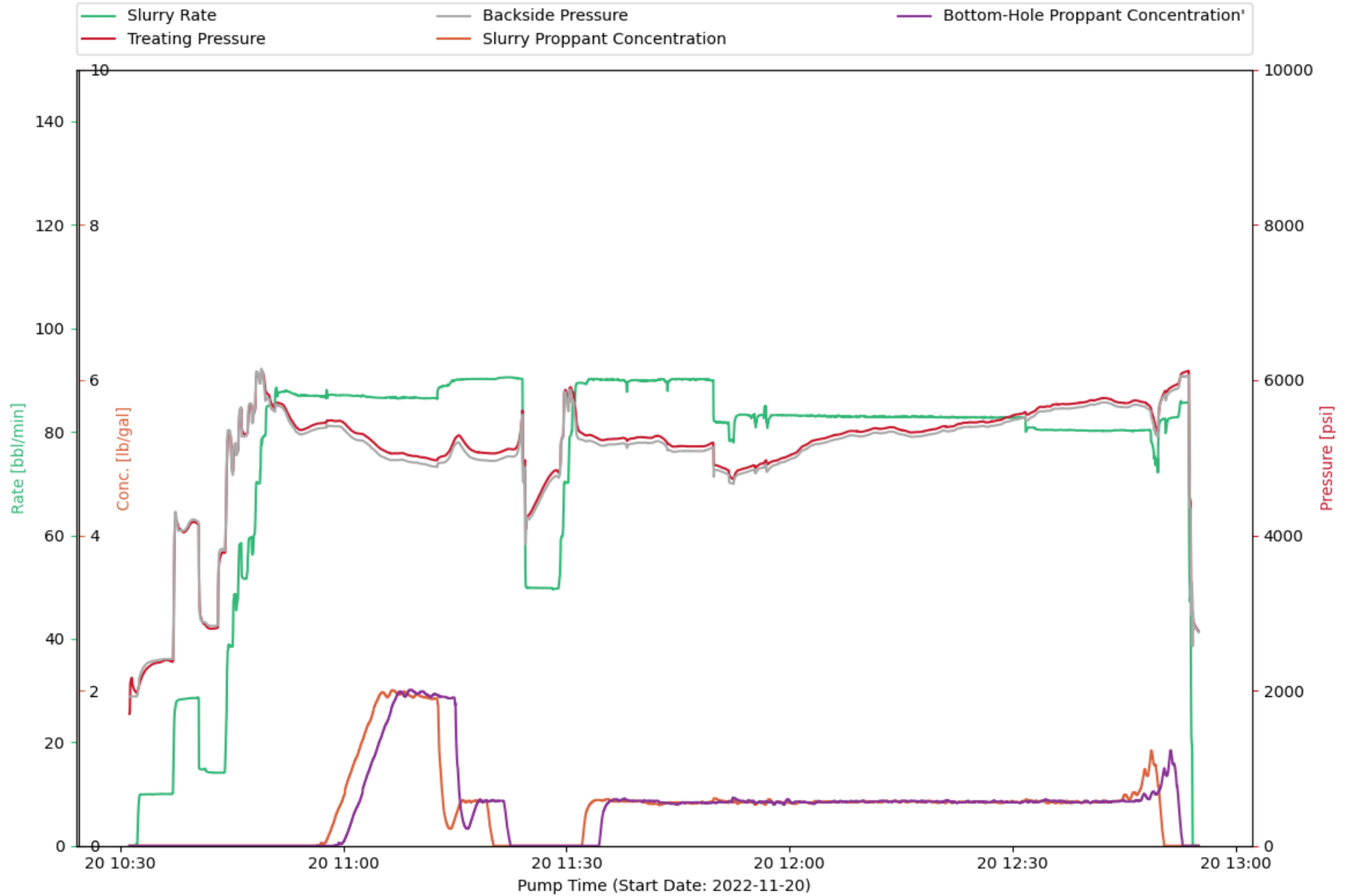
CHEMISTRY PLOT : Treatment Interval 32



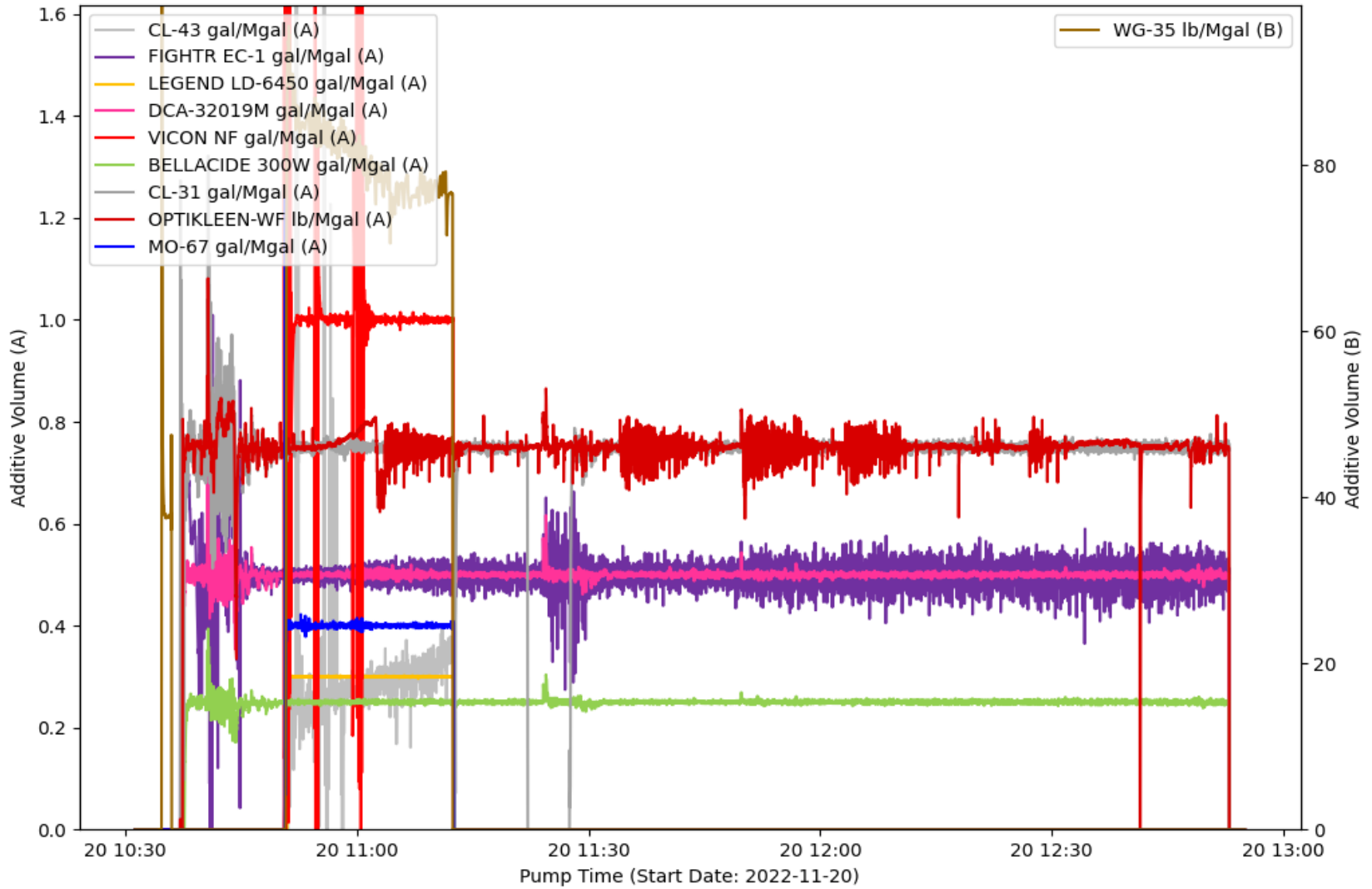
EVENT LOG : TREATMENT INTERVAL 32

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-20T03:38:48	0	1986	0	0	0	0	0
2	Start Pumping	2022-11-20T03:40:11	0	2035	0	0	0	0	0
3	Pump Acid	2022-11-20T03:41:34	9.35	2387	0	0	505.6	505.63	0
4	Ball on Seat	2022-11-20T03:50:58	15.07	3099	0	0	7721	7721	0
5	Break Formation	2022-11-20T03:51:47	15.06	3608	0	0	8243	8243	0
6	Pump Xlink Pill	2022-11-20T04:01:49	80.22	5070	0	0	37863	37863	0
7	Stop Pumping	2022-11-20T05:54:23	20.38	2846	0	0	405701	415633	218783
8	ISIP	2022-11-20T05:54:42	0	2576	0	0	405796	415728	218783
9	Shut In Well	2022-11-20T05:56:03	0	2572	0	0	405796	415728	218783

TREATMENT PLOT : Treatment Interval 33



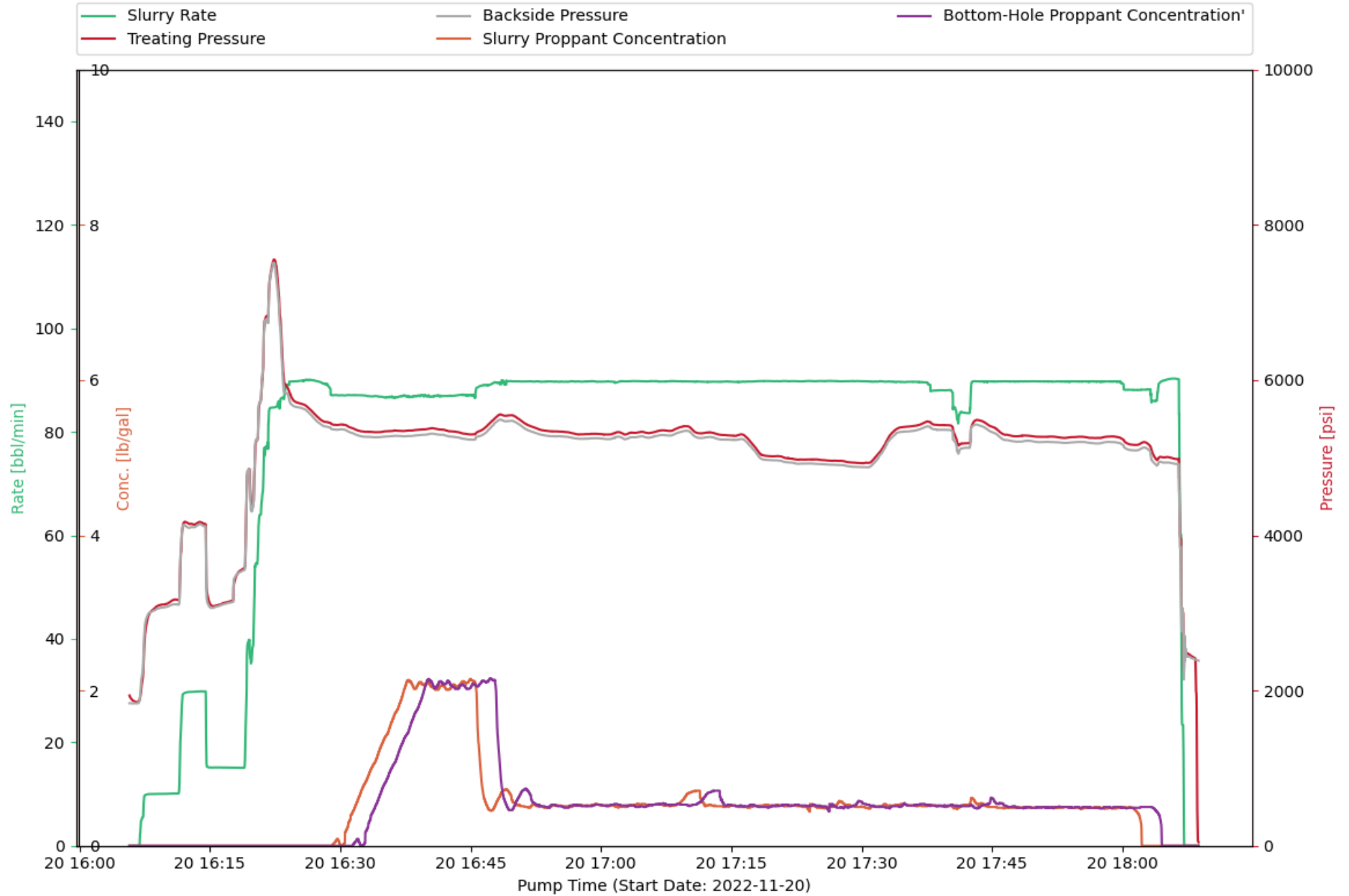
CHEMISTRY PLOT : Treatment Interval 33



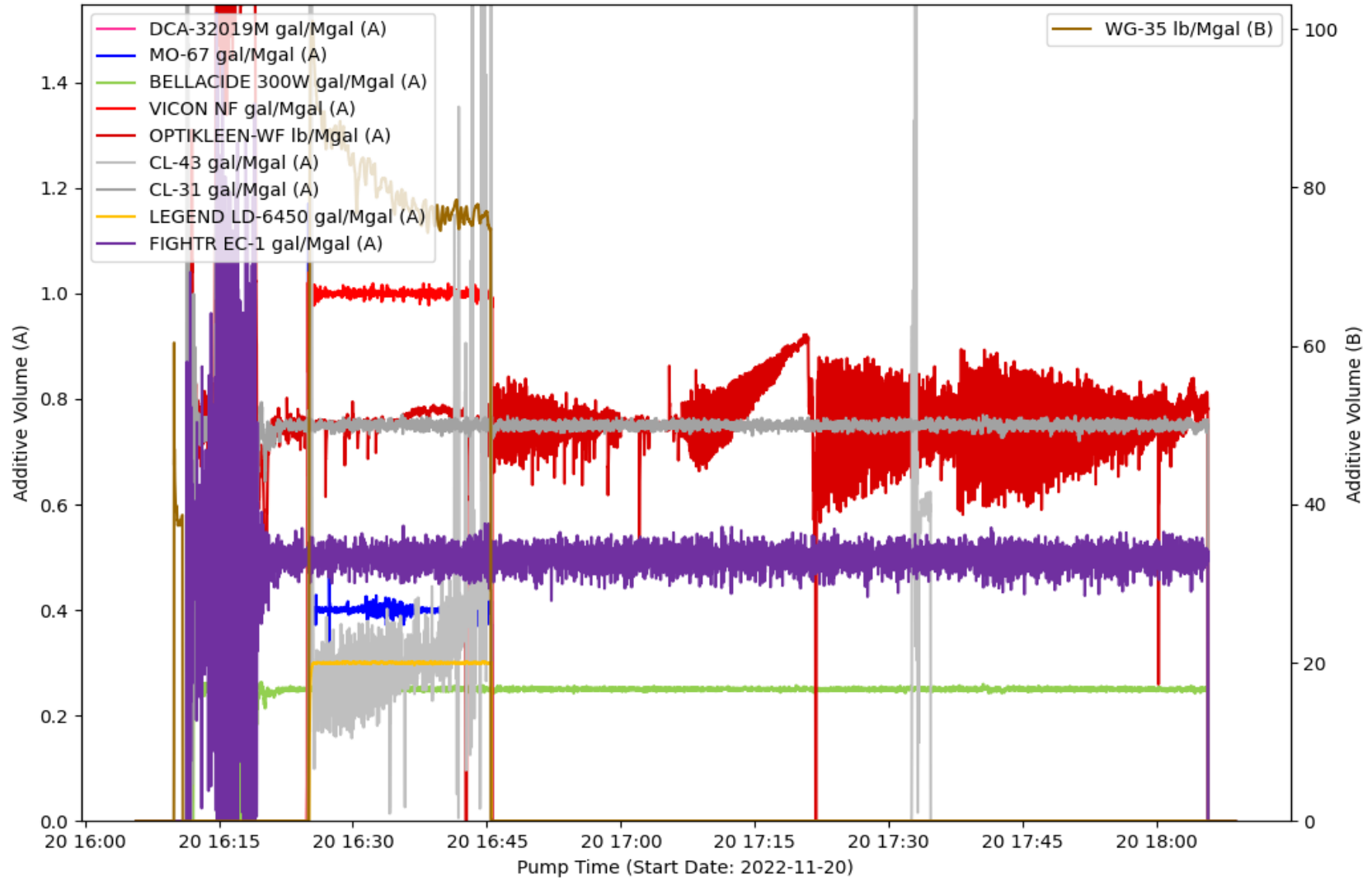
EVENT LOG : TREATMENT INTERVAL 33

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-20T10:31:45	0	2047	0	0	0	0	0
2	Start Pumping	2022-11-20T10:32:14	0	1979	0	0	0.38	0.39	0
3	Pump Acid	2022-11-20T10:34:09	9.97	2328	0	0	729.59	729.6	0
4	Ball on Seat	2022-11-20T10:42:46	14.11	2801	0	0	7359	7360	0
5	Break Formation	2022-11-20T10:43:40	14.13	3771	0	0	7889	7889	0
6	Pump Xlink Pill	2022-11-20T10:53:12	87.44	5458	0	0	34123	34123	0
7	Stop Pumping	2022-11-20T12:54:09	14.74	3111	0	0	445740	456813	243982
8	ISIP	2022-11-20T12:54:14	0	2756	0	0	445751	456825	243982
9	Shut In Well	2022-11-20T12:54:46	0	2799	0	0	445751	456825	243982

TREATMENT PLOT : Treatment Interval 34



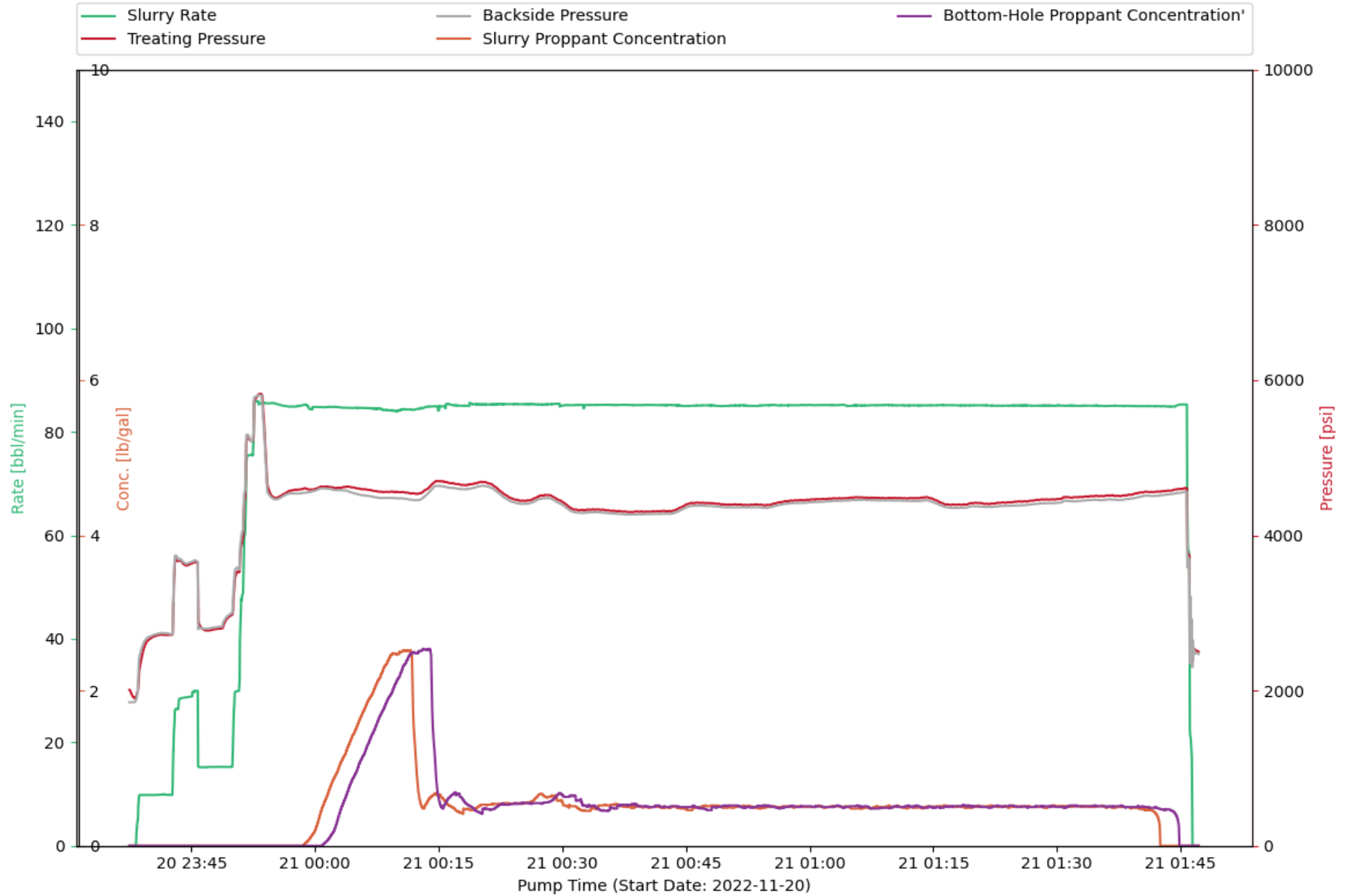
CHEMISTRY PLOT : Treatment Interval 34



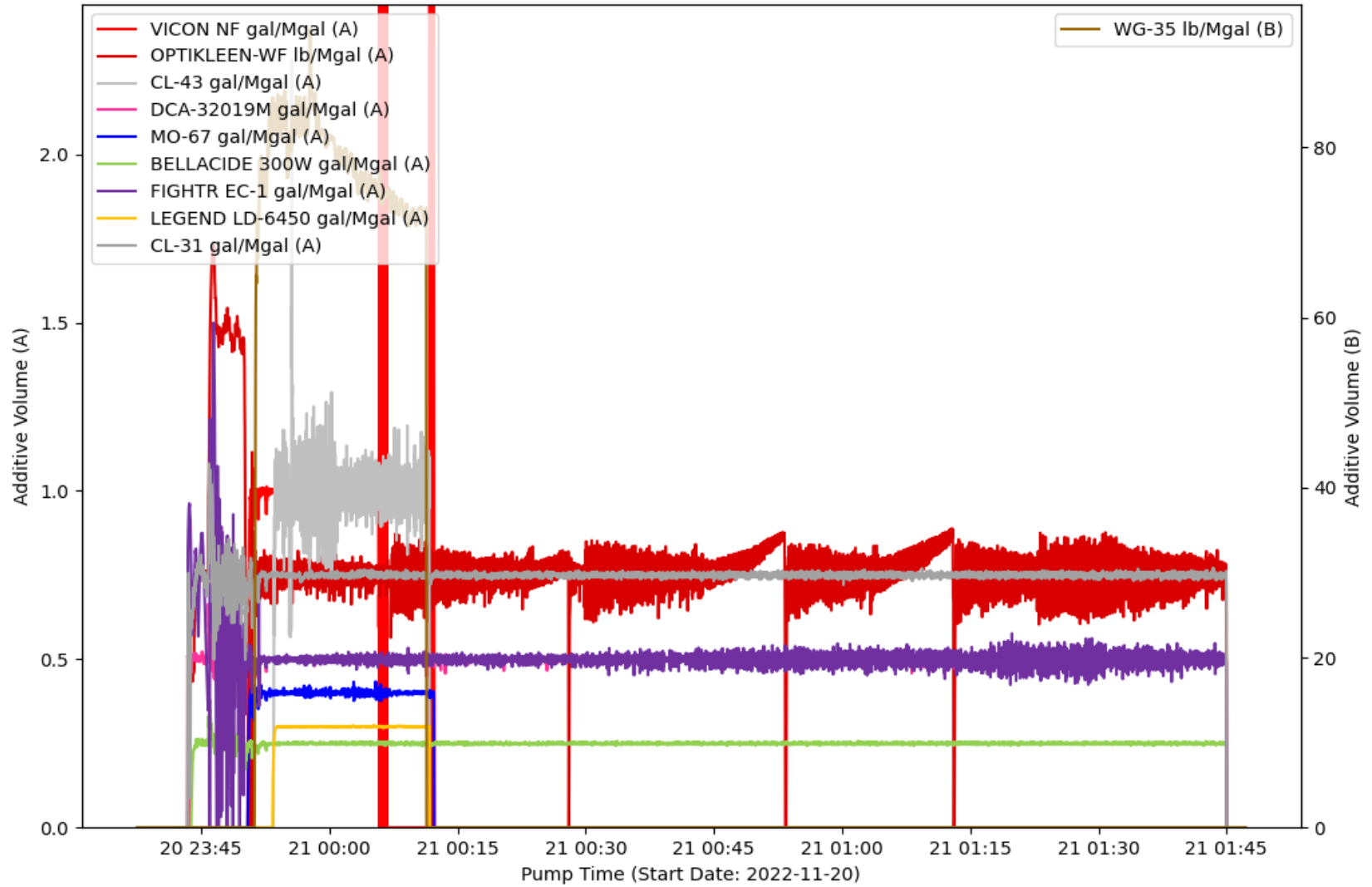
EVENT LOG : TREATMENT INTERVAL 34

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-20T16:06:02	0	1883	0	0	0	0	0
2	Start Pumping	2022-11-20T16:06:49	0	1858	0	0	0	0	0
3	Pump Acid	2022-11-20T16:08:29	10	3044	0	0	549.34	549.34	0
4	Ball on Seat	2022-11-20T16:17:38	15.11	3158	0	0	7490	7490	0
5	Break Formation	2022-11-20T16:19:02	16.25	3593	0	0	8387	8387	0
6	Pump Xlink Pill	2022-11-20T16:27:25	89.74	5524	0	0	35622	35622	0
7	ISIP	2022-11-20T18:06:33	74.33	4322	0	0	395645	406104	230424
8	Stop Pumping	2022-11-20T18:07:01	17.78	2549	0	0	396459	406919	230424
9	Shut In Well	2022-11-20T18:08:18	0	2421	0	0	396478	406937	230424

TREATMENT PLOT : Treatment Interval 35



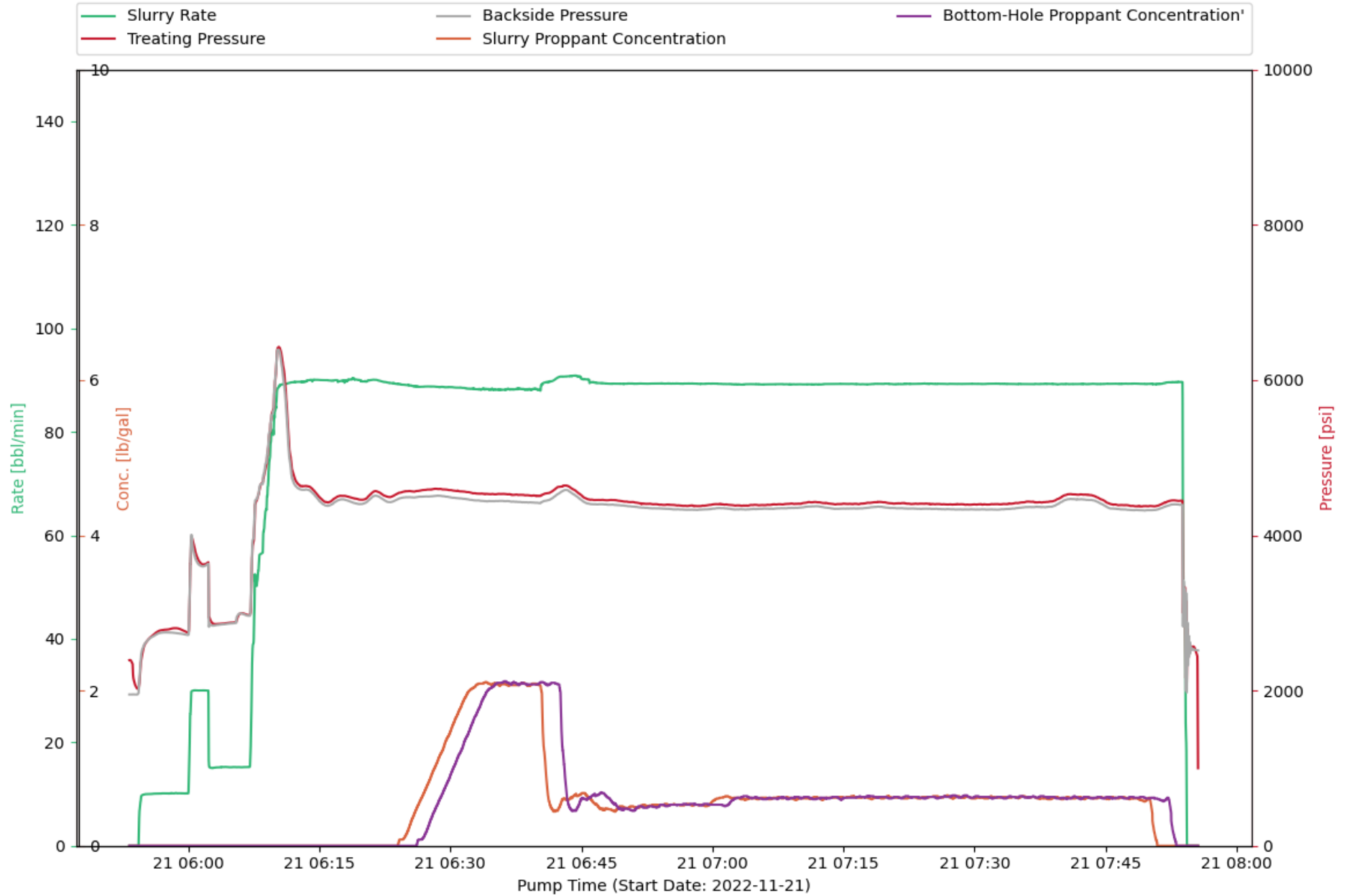
CHEMISTRY PLOT : Treatment Interval 35



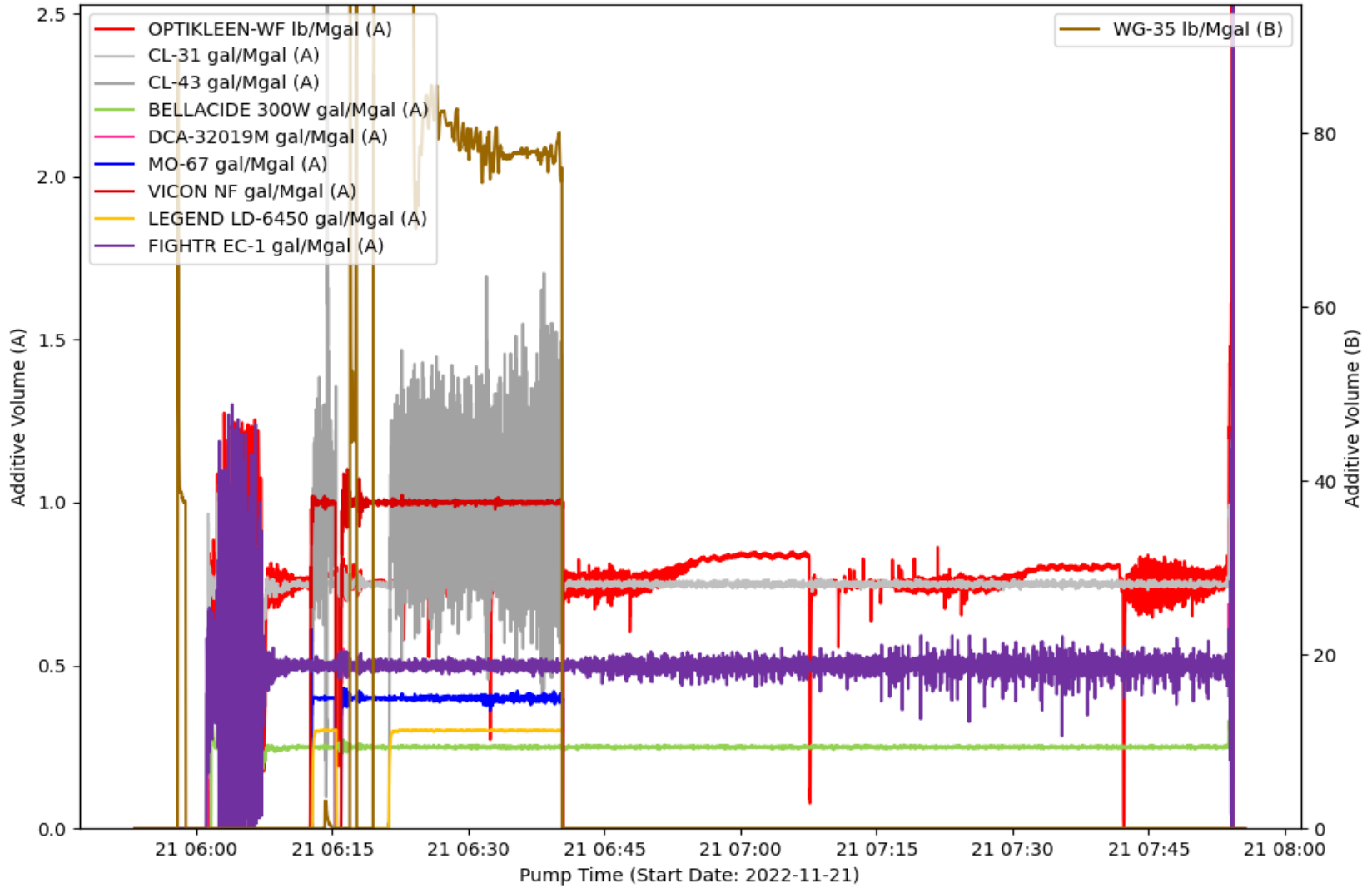
EVENT LOG : TREATMENT INTERVAL 35

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-20T23:37:55	0	1922	0	0	0	0	0
2	Start Pumping	2022-11-20T23:38:17	0	1919	0	0	0	0	0
3	Pump Acid	2022-11-20T23:39:59	9.81	2667	0	0	628.09	628.07	0
4	Ball on Seat	2022-11-20T23:48:46	15.24	2801	0	0	7257	7257	0
5	Break Formation	2022-11-20T23:49:56	15.25	2975	0	0	8001	8001	0
6	Pump Xlink Pill	2022-11-20T23:57:44	84.89	4586	0	0	32256	32256	0
7	Stop Pumping	2022-11-21T01:46:21	16.98	2691	0	0	408821	419115	226783
8	ISIP	2022-11-21T01:46:27	0	2480	0	0	408839	419133	226783

TREATMENT PLOT : Treatment Interval 36



CHEMISTRY PLOT : Treatment Interval 36



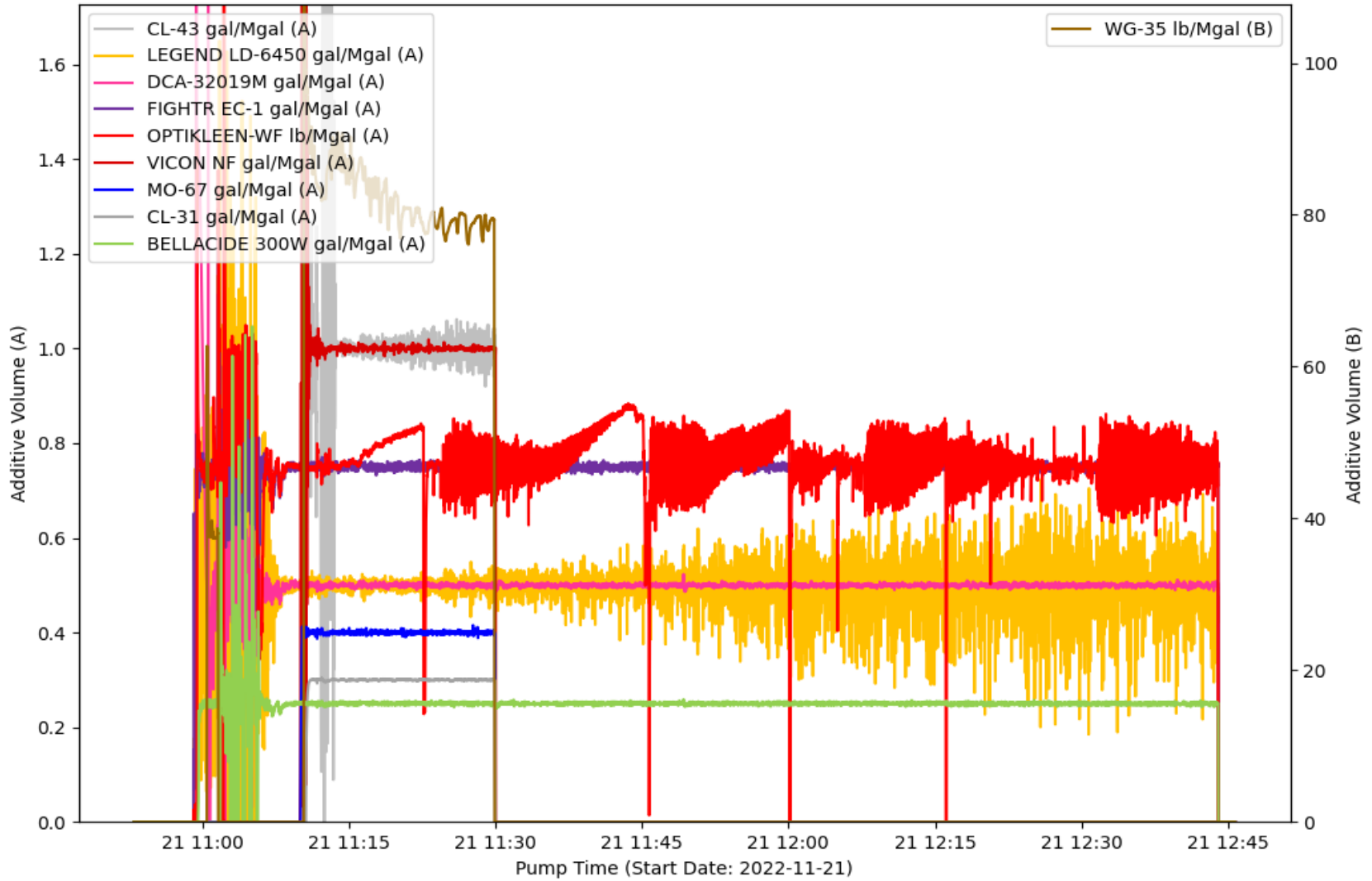
EVENT LOG : TREATMENT INTERVAL 36

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-21T05:53:41	0	2174	0	0	0	0	0
2	Start Pumping	2022-11-21T05:54:16	0	2029	0	0	0	0	0
3	Pump Acid	2022-11-21T05:56:49	10.08	2776	0	0	1023	1023	0
4	Ball on Seat	2022-11-21T06:05:26	15.22	2880	0	0	7146	7146	0
5	Break Formation	2022-11-21T06:06:08	15.18	2997	0	0	7597	7597	0
6	Stop Pumping	2022-11-21T07:54:15	18.21	2913	0	0	394734	405629	239992
7	ISIP	2022-11-21T07:54:20	0	2483	0	0	394755	405649	239992
8	Shut In Well	2022-11-21T07:55:09	0	2557	0	0	394755	405649	239992

TREATMENT PLOT : Treatment Interval 37



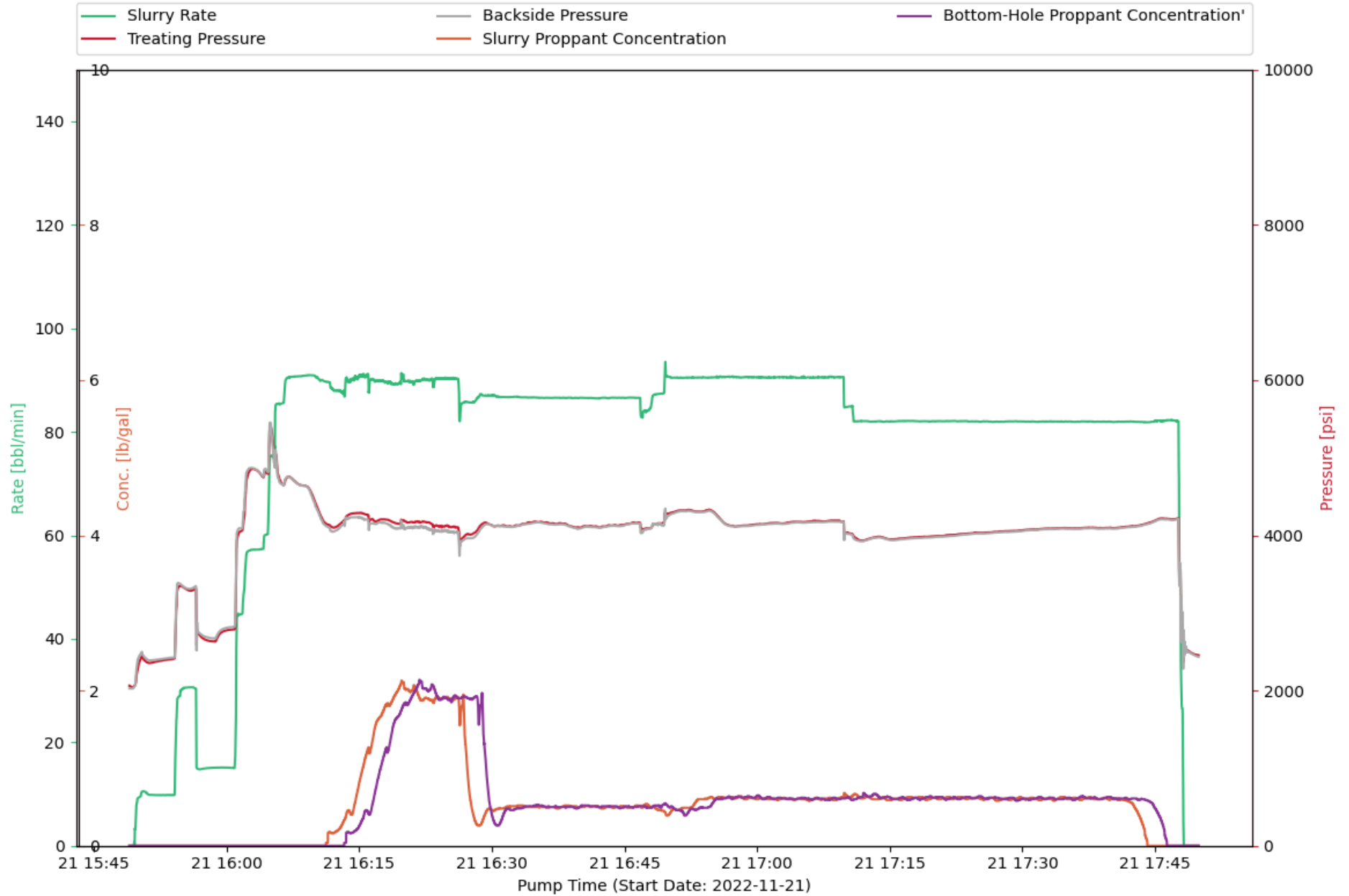
CHEMISTRY PLOT : Treatment Interval 37



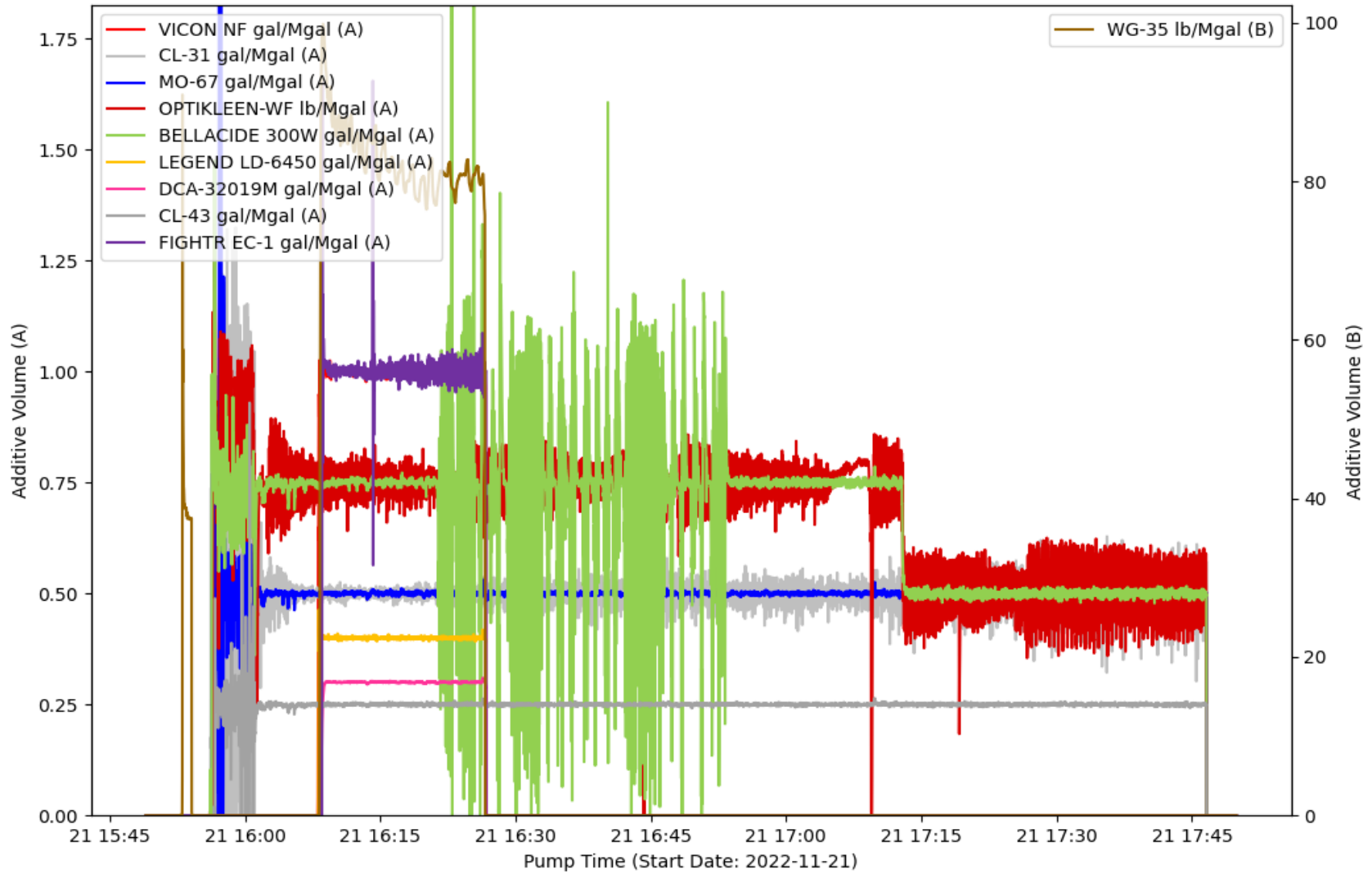
EVENT LOG : TREATMENT INTERVAL 37

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Start Avg Trt 37	2022-11-21T10:53:15	0	2235	0	0	0	0	0
2	Open Well	2022-11-21T10:53:35	0	2159	0	0	0	0	0
3	Start Pumping	2022-11-21T10:54:23	0.01	2137	0	0	12.68	12.68	0
4	Pump Acid	2022-11-21T10:55:22	9.76	2574	0	0	363.78	363.78	0
5	Ball on Seat	2022-11-21T11:03:18	14.94	2950	0	0	6476	6476	0
6	Break Formation	2022-11-21T11:05:21	14.95	3088	0	0	7758	7758	0
7	Pump Xlink Pill	2022-11-21T11:14:01	88.99	4331	0	0	34339	34339	0
8	Stop Pumping	2022-11-21T12:45:07	16.22	2554	0	0	368081	377844	215109
9	ISIP	2022-11-21T12:45:10	0.07	2193	0	0	368095	377858	215109
10	Shut In Well	2022-11-21T12:45:42	0	2567	0	0	368095	377858	215109

TREATMENT PLOT : Treatment Interval 38



CHEMISTRY PLOT : Treatment Interval 38



EVENT LOG : TREATMENT INTERVAL 38

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-21T15:49:25	0	2042	0	0	0	0	0
2	Start Pumping	2022-11-21T15:49:29	0.03	2050	0	0	0.04	0.04	0
3	Pump Acid	2022-11-21T15:51:19	9.85	2355	0	0	677.1	677.1	0
4	Ball on Seat	2022-11-21T15:58:43	15.1	2632	0	0	6179	6179	0
5	Break Formation	2022-11-21T16:00:51	15	2787	0	0	7525	7525	0
6	Pump Xlink Pill	2022-11-21T16:09:22	90.96	4595	0	0	32998	32998	0
7	Stop Pumping	2022-11-21T17:48:14	0	2607	0	0	379256	389748	231152
8	ISIP	2022-11-21T17:48:20	0	2511	0	0	379256	389748	231152
9	Shut In Well	2022-11-21T17:49:24	0	2469	0	0	379256	389748	231152

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