



WELL STIMULATION REPORT

D90 Energy LLC

DAMFINO 0680 5-6H31

05-057-06619-00

December 23, 2022

Engineering Executive Summary

On Monday, October 31, 2022 the stimulation of treatment(s) was performed in the Niobrara formation on the DAMFINO 0680 5-6H31 well in JACKSON county, COLORADO.

The proposed treatment(s) consisted of:

47,000	gallons of	15% HCl
18,925,759	gallons of	FR Water (FightR EC-1)
2,444,500	gallons of	Hybor G 25#
0	gallons of	Treated Water
0	pounds of	100 Mesh Premium White
11,309,375	pounds of	30/50 Premium White

The actual treatment(s) consisted of:

47,540	gallons of	15% HCl
17,290,187	gallons of	FR Water (FightR EC-1)
1,898,215	gallons of	Hybor G 25#
714,546	gallons of	Treated Water
0	pounds of	100 Mesh Premium White
10,178,580	pounds of	30/50 Premium White

37 of 47 treatment(s) were fully completed. 0 treatment(s) were skipped, and 10 treatment(s) were screened out or otherwise cut short of design.

The well was first opened Monday, October 31, 2022 at 12:59 with an opening pressure of 961.0 psi.

The total amount of proppant pumped was 10,178,580.0 lbm with an average concentration of 0.52 ppg and maximum concentration of 2.5 ppg. Treating pressure averaged 5362.06 psi and rate averaged 80.39 bpm.

The operation came offline at 16:59 and the well was shut in Friday, November 25, 2022 at 17:12 with a final shut-in pressure of 2,316.47 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	17201	17397	17409	6744	42	7	31	60	908204733
2	16981	17177	17189	6754	42	7	31	60	908204733
3	16761	16957	16969	6767	42	7	31	60	908204733
4	16541	16737	16749	6788	42	7	31	60	908204733
5	16321	16517	16529	6791	42	7	31	60	908204733
6	16101	16297	16309	6789	42	7	31	60	908204733
7	15881	16077	16089	6789	54	7	31	60	908204733
8	15661	15857	15869	6785	54	7	31	60	908204733
9	15441	15637	15649	6782	54	7	31	60	908204733
10	15221	15417	15429	6774	54	7	31	60	908204733
11	15001	15197	15209	6768	54	7	31	60	908204733
12	14781	14977	14989	6767	54	7	31	60	908204733
13	14561	14757	14769	6769	54	7	31	60	908204733
14	14341	14537	14549	6767	54	7	31	60	908204733
15	14121	14317	14329	6766	54	7	31	60	908204733
16	13901	14097	14109	6758	54	7	31	60	908204733
17	13681	13877	13889	6750	54	7	31	60	908204733
18	13461	13657	13669	6745	54	7	31	60	908204733
19	13241	13437	13449	6738	54	7	31	60	908204733
20	13021	13217	13229	6733	54	7	31	60	908204733
21	12801	12997	13009	6728	54	7	31	60	908204733
22	12581	12777	12789	6720	54	7	31	60	908204733

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	12361	12557	12569	6713	54	7	31	60	908204733
24	12141	12337	12349	6709	54	7	31	60	908204733
25	11921	12117	12129	6698	54	7	31	60	908204733
26	11701	11897	11909	6690	54	7	31	60	908204733
27	11481	11677	11689	6685	54	7	31	60	908204733
28	11261	11457	11469	6674	54	7	31	60	908204733
29	11041	11237	11249	6661	54	7	31	60	908204733
30	10821	11017	11029	6642	54	7	31	60	908204733
31	10601	10797	10809	6630	54	7	31	60	908204733
32	10381	10577	10589	6632	54	7	31	60	908204733
33	10161	10357	10369	6636	54	7	31	60	908204733
34	9941	10137	10149	6632	54	7	31	60	908204733
35	9721	9917	9929	6623	54	7	31	60	908204733
36	9501	9697	9709	6620	54	7	31	60	908204733
37	9281	9477	9489	6619	54	7	31	60	908204733
38	9061	9257	9269	6619	54	7	31	60	908204733
39	8841	9037	9049	6612	54	7	31	60	908204733
40	8621	8817	8829	6604	54	7	31	60	908204733
41	8401	8597	8609	6595	54	7	31	60	908204733
42	8181	8377	8389	6593	54	7	31	60	908204733
43	7961	8157	8169	6586	54	7	31	60	908204733
44	7741	7937	7949	6574	54	7	31	60	908204733

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
45	7521	7717	7729	6569	54	7	31	60	908204733
46	7301	7497	7509	6565	54	7	31	60	908204733
47	7081	7277	7289	6564	54	7	31	60	908204733

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	408372	589387	53500	138200	0	27468	462872	756047	765250.08
2	1000	992	408167	316753	53500	0	0	23562	462667	341307	343432.74
3	1000	992	407962	339295	53500	0	0	23856	462462	364143	371478.66
4	1000	992	407757	206927	53500	1	0	37170	462257	245090	250047
5	1000	992	407552	201138	53500	0	0	35280	462052	237410	239582.7
6	1000	992	406247	245413	53500	132357	0	25830	460747	404592	411303.48
7	1000	992	406042	472194	53500	0	0	24696	460542	497882	507839.64
8	1000	992	405837	458918	53500	0	0	22512	460337	482422	489820.8
9	1000	992	405632	266166	53500	139579	0	23688	460132	430425	436962.96
10	1000	992	405428	409465	53500	0	0	59178	459928	469635	480049.08
11	1000	992	405223	177014	53500	109796	0	21462	459723	309264	313159.14
12	1000	992	405018	299199	53500	83044	0	22974	459518	406209	417283.86
13	1000	992	404813	270368	53500	72296	0	18774	459313	362430	371006.16
14	1000	992	404608	347184	53500	70974	0	17430	459108	436580	447867.84
15	1000	992	404403	323655	53500	83780	0	18396	458903	426823	437407.74
16	1000	992	404198	292281	53500	124617	0	16338	458698	434228	446433.54
17	1000	992	403993	211493	53500	99470	0	16800	458493	328755	339416.28
18	1000	992	403788	391634	53500	73811	0	16632	458288	483069	494199.72
19	1000	992	403583	344736	53500	74837	0	15666	458083	436231	446762.82
20	1000	992	403378	353447	53500	107549	0	15036	457878	477024	488407.08
21	1000	992	403173	450102	53500	0	0	15204	457673	466298	477663.48
22	1000	1000	402969	534056	53500	0	0	14154	457469	549210	560886.06

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	402764	378475	53500	0	0	15834	457264	395301	405078.24
24	1000	992	402559	414823	53500	0	0	13524	457059	429339	439488
25	1000	992	402354	339953	53500	74204	0	13062	456854	428211	438685.8
26	1000	992	402149	392869	53500	0	0	12852	456649	406713	416627.82
27	1000	992	401944	424850	53500	0	0	11928	456444	437770	448198.8
28	1000	992	401739	433312	53500	0	0	11886	456239	446190	457255.68
29	1000	992	401534	406409	53500	0	0	10836	456034	418237	428633.1
30	1000	1000	401329	312080	53500	69588	0	10500	455829	393168	402937.08
31	1000	1000	401124	386901	53500	0	0	9534	455624	397435	408037.98
32	1000	1000	400919	401107	53500	0	0	9576	455419	411683	422103.36
33	1000	992	400714	438608	53500	0	0	8526	455214	448126	458734.92
34	1000	992	400510	423661	48500	0	0	8988	450010	433641	444356.64
35	1000	992	400305	341839	48500	68942	0	9072	449805	420845	431776.38
36	1000	992	400100	382039	48500	56305	0	7686	449600	447022	458143.56
37	1000	992	399895	411145	48500	0	0	7770	449395	419907	432361.86
38	1000	992	399690	344565	48500	95782	0	6762	449190	448101	458763.9
39	1000	992	399485	331999	48500	109377	0	6426	448985	448794	459243.12
40	1000	1141	399280	357494	48500	58070	0	5292	448780	421997	432998.58
41	1000	1141	399075	386216	48500	55636	0	5166	448575	448159	459452.7
42	1000	992	398870	403014	48500	0	0	4200	448370	408206	418835.76
43	1000	992	398665	388479	48500	0	0	3990	448165	393461	404034.54
44	1000	1141	398460	409736	48500	0	0	2940	447960	413817	424730.88

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)
45	1000	1141	398255	474936	48500	0	0	2814	447755	478891	489615.42
46	1000	1131	398051	402720	48500	0	0	1974	447551	405825	416674.44
47	1000	1141	397846	402132	48500	0	0	1302	447346	404575	414960.84
Total	47000	47540	18925759	17290187	2444500	1898215	0	714546	21417259	19950488	20407990.26

PROPPANT SUMMARY

Treatment Interval	100 Mesh Premium White		30/50 Premium White		Total	
	Proposed (lbm)	Pumped (lbm)	Proposed (lbm)	Pumped (lbm)	Proposed (lbm)	Pumped (lbm)
1	0	0	240625	204260	240625	204260
2	0	0	240625	52460	240625	52460
3	0	0	240625	172480	240625	172480
4	0	0	240625	122640	240625	122640
5	0	0	240625	49500	240625	49500
6	0	0	240625	142240	240625	142240
7	0	0	240625	217620	240625	217620
8	0	0	240625	157800	240625	157800
9	0	0	240625	143640	240625	143640
10	0	0	240625	239140	240625	239140
11	0	0	240625	83580	240625	83580
12	0	0	240625	241240	240625	241240
13	0	0	240625	191260	240625	191260
14	0	0	240625	237960	240625	237960
15	0	0	240625	240500	240625	240500
16	0	0	240625	265100	240625	265100
17	0	0	240625	237340	240625	237340
18	0	0	240625	240660	240625	240660
19	0	0	240625	240000	240625	240000
20	0	0	240625	246920	240625	246920
21	0	0	240625	254500	240625	254500
22	0	0	240625	241680	240625	241680

PROPPANT SUMMARY

Treatment Interval	100 Mesh Premium White		30/50 Premium White		Total	
	Proposed (lbm)	Pumped (lbm)	Proposed (lbm)	Pumped (lbm)	Proposed (lbm)	Pumped (lbm)
23	0	0	240625	229720	240625	229720
24	0	0	240625	230480	240625	230480
25	0	0	240625	240640	240625	240640
26	0	0	240625	233180	240625	233180
27	0	0	240625	240100	240625	240100
28	0	0	240625	242880	240625	242880
29	0	0	240625	239640	240625	239640
30	0	0	240625	238220	240625	238220
31	0	0	240625	237980	240625	237980
32	0	0	240625	235600	240625	235600
33	0	0	240625	238520	240625	238520
34	0	0	240625	241880	240625	241880
35	0	0	240625	251120	240625	251120
36	0	0	240625	239900	240625	239900
37	0	0	240625	235180	240625	235180
38	0	0	240625	238920	240625	238920
39	0	0	240625	237160	240625	237160
40	0	0	240625	239000	240625	239000
41	0	0	240625	245320	240625	245320
42	0	0	240625	240640	240625	240640
43	0	0	240625	234820	240625	234820
44	0	0	240625	238040	240625	238040

PROPPANT SUMMARY

Treatment Interval	100 Mesh Premium White		30/50 Premium White		Total	
	Proposed (lbm)	Pumped (lbm)	Proposed (lbm)	Pumped (lbm)	Proposed (lbm)	Pumped (lbm)
45	0	0	240625	236520	240625	236520
46	0	0	240625	234800	240625	234800
47	0	0	240625	235800	240625	235800
Total	0	0	11309375	10178580	11309375	10178580

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	115.47	210	16.05	42	53.5	118	230.94	394	408.37	1071	230.94	198
2	504	500	115.42	89	16.05	0	53.5	0	230.83	155	408.17	230	230.83	160
3	504	500	115.37	95	16.05	25	53.5	85	230.73	166	407.96	226	230.73	172
4	504	500	115.31	70	16.05	19	53.5	62	230.63	102	407.76	156	230.63	111
5	504	500	115.26	66	16.05	17	53.5	57	230.53	97	407.55	448	230.53	108
6	504	500	114.94	85	16.05	34	53.5	114	229.87	108	406.25	165	229.87	121
7	504	500	114.89	6	16.05	29	53.5	99	229.77	231	406.04	370	229.77	242
8	504	500	114.83	108	16.05	23	53.5	87	229.67	204	405.84	306	229.67	211
9	504	500	114.78	104	16.05	40	53.5	120	229.57	193	405.63	289	229.57	195
10	504	500	114.73	15	16.05	25	53.5	88	229.46	199	405.43	299	229.46	185
11	504	500	114.68	68	16.05	31	53.5	90	229.36	140	405.22	200	229.36	165
12	504	500	114.63	94	16.05	24	53.5	83	229.26	185	405.02	280	229.26	230
13	504	500	114.58	84	16.05	22	53.5	72	229.16	168	404.81	251	229.16	189
14	504	500	114.53	107	16.05	20	53.5	67	229.05	206	404.61	308	229.05	224
15	504	500	114.48	100	16.05	25	53.5	79	228.95	200	404.4	300	228.95	200
16	504	500	114.42	100	16.05	35	53.5	118	228.85	205	404.2	330	228.85	290
17	504	500	114.37	75	16.05	25	53.5	89	228.75	150	403.99	231	228.75	220
18	504	500	114.32	118	16.05	21	53.5	92	228.64	229	403.79	344	228.64	242
19	504	500	114.27	106	16.05	22	53.5	89	228.54	206	403.58	309	228.54	176
20	504	500	114.22	115	16.05	30	53.5	100	228.44	223	403.38	384	228.44	231
21	504	500	114.17	115	16.05	26	53.5	86	228.34	222	403.17	331	228.34	229
22	504	500	114.12	123	16.05	28	53.5	80	228.23	245	402.97	363	228.23	245

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	114.07	119	16.05	26	53.5	84	228.13	176	402.76	270	228.13	180
24	504	500	114.01	102	16.05	20	53.5	65	228.03	205	402.56	306	228.03	204
25	504	500	113.96	104	16.05	23	53.5	28	227.93	203	402.35	304	227.93	209
26	504	500	113.91	100	16.05	24	53.5	39	227.82	194	402.15	290	227.82	200
27	504	500	113.86	103	16.05	1	53.5	69	227.72	188	401.94	312	227.72	208
28	504	500	113.81	110	16.05	27	53.5	89	227.62	214	401.74	321	227.62	220
29	504	500	113.76	107	16.05	22	53.5	74	227.52	201	401.53	302	227.52	212
30	504	500	113.71	97	16.05	21	53.5	69	227.41	187	401.33	284	227.41	193
31	504	500	113.66	95	16.05	20	53.5	65	227.31	190	401.12	280	227.31	190
32	504	500	113.6	100	16.05	15	53.5	55	227.21	195	400.92	295	227.21	195
33	504	500	113.55	108	16.05	22	53.5	62	227.11	216	400.71	219	227.11	216
34	504	500	112.25	104	14.55	20	48.5	67	224.5	209	400.51	220	224.5	209
35	504	500	112.2	103	14.55	19	48.5	63	224.4	205	400.3	302	224.4	200
36	504	500	112.15	106	14.55	17	48.5	56	224.3	213	400.1	209	224.3	213
37	504	550	112.1	101	14.55	19	48.5	62	224.2	202	399.9	200	224.2	202
38	504	500	112.05	94	14.55	27	48.5	79	224.1	220	399.69	217	224.1	218
39	504	500	112	110	14.55	28	48.5	75	223.99	215	399.48	250	223.99	220
40	504	575	111.94	103	14.55	18	48.5	61	223.89	206	399.28	190	223.89	206
41	504	575	111.89	109	14.55	19	48.5	61	223.79	227	399.08	200	223.79	219
42	504	575	111.84	100	14.55	20	48.5	68	223.68	200	398.87	255	223.68	185
43	504	575	111.79	95	14.55	21	48.5	60	223.58	200	398.66	316	223.58	175
44	504	575	111.74	100	14.55	20	48.5	59	223.48	201	398.46	301	223.48	190

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)
45	504	575	111.69	91	14.55	29	48.5	101	223.38	181	398.26	302	223.38	190
46	504	570	111.64	111	14.55	22	48.5	72	223.28	212	398.05	266	223.28	190
47	504	575	111.59	93	14.55	30	48.5	148	223.17	247	397.85	250	223.17	190
Total	23688	24145	5342.56	4618	733.35	1093	2444.5	3606	10685.12	9335	18925.74	13852	10685.12	9378

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	21.4	52	408.37	990	53.5	141	1337.5	3254
2	21.4	0	408.17	110	53.5	0	1337.5	0
3	21.4	35	407.96	0	53.5	104	1337.5	2083
4	21.4	26	407.76	165	53.5	66	1337.5	1601
5	21.4	23	407.55	110	53.5	61	1337.5	1391
6	21.4	63	406.25	165	53.5	158	1337.5	3433
7	21.4	44	406.04	330	53.5	110	1337.5	2505
8	21.4	63	405.84	330	53.5	155	1337.5	2388
9	21.4	56	405.63	275	53.5	84	1337.5	2578
10	21.4	54	405.43	330	53.5	136	1337.5	2483
11	21.4	45	405.22	220	53.5	113	1337.5	2494
12	21.4	35	405.02	275	53.5	90	1337.5	1590
13	21.4	30	404.81	275	53.5	76	1337.5	1694
14	21.4	29	404.61	330	53.5	73	1337.5	1656
15	21.4	34	404.4	330	53.5	80	1337.5	1855
16	21.4	50	404.2	330	53.5	125	1337.5	2170
17	21.4	40	403.99	220	53.5	100	1337.5	1644
18	21.4	29	403.79	385	53.5	73	1337.5	1710
19	21.4	30	403.58	330	53.5	75	1337.5	1746
20	21.4	46	403.38	330	53.5	98	1337.5	2066
21	21.4	26	403.17	330	53.5	86	1337.5	1882
22	21.4	48	402.97	330	53.5	99	1337.5	1908

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	21.4	37	402.76	275	53.5	114	1337.5	1795
24	21.4	29	402.56	330	53.5	73	1337.5	1415
25	21.4	33	402.35	330	53.5	77	1337.5	1787
26	21.4	32	402.15	330	53.5	80	1337.5	1865
27	21.4	30	401.94	330	53.5	76	1337.5	1568
28	21.4	38	401.74	330	53.5	96	1337.5	1955
29	21.4	31	401.53	330	53.5	77	1337.5	1799
30	21.4	28	401.33	330	53.5	70	1337.5	1634
31	21.4	60	401.12	275	53.5	60	1337.5	1322
32	21.4	25	400.92	275	53.5	65	1337.5	1294
33	21.4	26	400.71	165	53.5	65	1337.5	1240
34	19.4	27	400.51	220	48.5	69	1212.5	1474
35	19.4	27	400.3	275	48.5	103	1212.5	1330
36	19.4	23	400.1	220	48.5	63	1212.5	1160
37	19.4	26	399.9	220	48.5	74	1212.5	1286
38	19.4	38	399.69	220	48.5	96	1212.5	1811
39	19.4	45	399.48	220	48.5	110	1212.5	2029
40	19.4	24	399.28	220	48.5	65	1212.5	1047
41	19.4	26	399.08	220	48.5	65	1212.5	1017
42	19.4	29	398.87	220	48.5	78	1212.5	1346
43	19.4	30	398.66	275	48.5	76	1212.5	1360
44	19.4	29	398.46	275	48.5	70	1212.5	1294

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)
45	19.4	44	398.26	275	48.5	116	1212.5	1394
46	19.4	50	398.05	330	48.5	81	1212.5	1282
47	19.4	51	397.85	330	48.5	99	1212.5	2244
Total	977.8	1696	18925.74	13310	2444.5	4121	61112.5	81879

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	Completed	6280	69.51	0.49	9377	77.7	2.5
2	Cut	6606	64.8	0.14	8913	80.29	0.56
3	Cut	6603	68.2	0.66	8859	72.05	2.5
4	Screened Out	5943	55.2	0.63	9941	72.59	1.59
5	Cut	7120	65.2	0.34	8691	90.56	0.97
6	Cut	7070	79.2	0.47	8030	88.19	2.2
7	Cut	6514	79.7	0.6	8823	85.62	2.5
8	Cut	6840	76	0.4	9058	86.16	2.5
9	Cut	6563	77.61	0.28	8682	82.69	0.5
10	Completed	7052	83.1	0.46	7748	85.22	2.5
11	Cut	7268	74.8	0.25	9365	85.12	2.5
12	Completed	6233	79.97	0.51	7991	86.18	2.5
13	Cut	6593	86.5	0.47	8102	87.71	2.5
14	Completed	6530	89.4	0.51	8425	90.68	2.5
15	Completed	6448	88.9	0.49	8719	90.9	2.5
16	Completed	6011	81.9	0.54	7733	91.53	2.5
17	Completed	5843	79	0.61	8078	85.8	2.5
18	Completed	5622	83	0.45	7168	85.61	2.5
19	Completed	5686	89.9	0.5	8330	92.1	2.5
20	Completed	5700	85.19	0.39	8242	92.74	2.5
21	Completed	5512	87.06	0.64	7310	91.73	2.5
22	Completed	5073	85.5	0.62	9060	90.63	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	5073	78.5	0.49	6843	83.6	2.5
24	Completed	5140	77.72	0.6	6027	80.72	2.5
25	Completed	5108	84.3	0.51	7295	88.34	2.5
26	Completed	5190	86.5	0.63	6566	88.22	2.5
27	Completed	5299	84.1	0.51	7703	88.81	2.5
28	Completed	4860	84.9	0.61	7331	86.66	2.5
29	Completed	4976	89	0.62	7313	89.96	2.5
30	Completed	4278	83.4	0.52	6601	86.12	2.5
31	Completed	4150	82.1	0.53	6290	86.3	2.5
32	Completed	4562	85.2	0.51	8704	86.3	2.5
33	Completed	4481	80.2	0.51	6177	90.65	2.27
34	Completed	4365	97.2	0.6	5306	87.2	2.11
35	Completed	4617	85	0.53	6000	87.09	2.5
36	Completed	4532	76.5	0.58	6643	87.3	2.5
37	Completed	4535	77.4	0.59	6340	84.8	2.5
38	Completed	4471	85	0.6	6830	88.94	2.5
39	Completed	4458	85	0.49	5816	89	2.5
40	Completed	4023	76.2	0.52	5254	87.62	2.5
41	Completed	3947	78.4	0.52	7274	85.91	2.5
42	Completed	4162	83.5	0.61	4960	88.61	2.5
43	Completed	4013	85	0.62	4511	85.72	2.5
44	Completed	4244	77.6	0.6	5055	85.83	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)
45	Completed	4307	74.5	0.51	7500	86.12	2.5
46	Completed	4170	78.6	0.59	5552	87.23	2.5
47	Completed	3946	73.1	0.51	5846	86.6	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	373.85	3905	14.84	4542	14.8
3	365.67	3645	15.22	4072	15.17
4	366.14	4049	15.13	4258	15.15
5	368.52	4736	15.3	5163	15.15
6	374.94	4349	15.16	4380	15.16
7	357.72	3991	15.08	4308	15.06
8	63.11	3220	7.72	3223	7.71
9	348.02	3591	15.21	3605	15.18
10	316.88	3929	15.3	4323	15.25
11	326.28	3759	15.23	4163	15.21
12	330.5	3426	15.21	3573	15.22
13	315.17	3633	15.16	3883	14.93
14	305.7	3394	15.25	3668	15.25
15	304.96	3214	14.93	3837	14.89
16	308.84	2911	15.11	3211	15.09
17	301.65	3370	15.15	3991	15.11
18	294.22	3085	14.86	3556	14.86
19	291.91	3611	14.93	4369	15.09
20	284.6	3515	15.02	3833	15.14
21	283.44	2766	14.97	3091	14.93
22	127.69	2654	11.67	2973	11.67

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	267.98	3030	15.09	3662	15.01
24	278.33	2916	15.27	3061	15.26
25	253.52	3071	15.15	4054	15.11
26	260.5	2781	14.92	3224	14.91
27	257.65	2844	15.16	4065	15.1
28	253.58	2682	15.21	3217	15.18
29	250.31	2811	14.6	2705	14.6
30	237.19	2550	14.98	2937	15.04
31	237.97	2544	15.06	2807	15.07
32	229.34	2939	15.11	3654	15.05
33	221.57	2625	15.09	2994	15
34	220.28	2732	15	3668	14.94
35	220.08	3033	15.12	3066	15.12
36	219.95	2998	15.26	3175	15.25
37	220.09	2822	15.83	3150	15.81
38	202.3	2704	15.09	2900	15.06
39	205.49	2403	15.07	2530	15.05
40	234.54	2408	16.01	2386	16.02
41	196.2	2231	15.21	2248	15.25
42	199.78	2301	15.3	2302	15.32
43	180.93	2393	15.12	2417	15.1
44	169.88	2651	15.07	2888	15.06

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)
45	168.48	2650	15.09	2879	15.07
46	162.26	2772	15.31	3192	15.29
47	200.05	2524	14.81	2521	14.82

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	961	8796	1.74	0	0	0	0	1742
2	1340	3191	0.9	0	0	0	0	2921
3	1981	3635	0.97	0	0	0	0	36
4	1871	2972	0.87	0	0	0	0	2937
5	1321	3462	0.94	0	0	0	0	3035
6	1614	4068	1.03	0	0	0	0	3682
7	1367	3304	0.92	0	0	0	0	3244
8	2008	3540	0.96	0	3118	0	0	3070
9	1971	3678	0.98	0	0	0	0	3431
10	1793	3516	0.95	0	0	0	0	3445
11	2228	3557	0.96	0	0	0	0	2729
12	1947	3100	0.89	0	0	0	0	3011
13	1928	3177	0.9	0	0	0	0	2943
14	2238	3188	0.9	0	0	0	0	3132
15	2281	3076	0.89	0	0	0	0	2992
16	2133	2647	0.82	0	0	0	0	2584
17	1993	2698	0.83	0	0	0	0	2632
18	2056	2523	0.81	0	0	0	0	2513
19	2176	2561	0.81	0	0	0	0	2499
20	2081	2841	0.86	0	0	0	0	2607
21	2043	2837	0.86	0	0	0	0	2608
22	1775	2560	0.81	0	0	0	0	2488

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	1816	2550	0.81	0	0	0	0	2410
24	1820	2607	0.82	0	0	0	0	2425
25	1882	2794	0.85	0	0	0	0	2509
26	1742	2517	0.81	0	0	0	0	2435
27	1965	2606	0.82	0	0	0	0	2456
28	1839	2399	0.79	0	0	0	0	2348
29	1925	2467	0.8	0	0	0	0	2377
30	1890	2259	0.77	0	0	0	0	2242
31	1795	2401	0.8	0	0	0	0	2308
32	1985	2372	0.79	0	0	0	0	2314
33	1822	2408	0.8	0	2367	0	0	2177
34	1832	2366	0.79	0	0	0	0	2336
35	1678	2707	0.84	0	0	0	0	2517
36	1909	2481	0.81	0	2272	0	0	2251
37	2007	2639	0.83	0	0	0	0	2399
38	2063	2677	0.84	0	0	0	0	2498
39	1923	2724	0.84	0	0	0	0	2450
40	2124	2670	0.84	0	0	0	0	2261
41	1959	2536	0.82	0	0	0	0	2437
42	2013	2805	0.86	0	0	0	0	2576
43	2026	2770	0.85	0	2400	0	0	2400
44	2176	2719	0.85	0	2618	0	0	2419

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)
45	2249	2690	0.84	0	2470	0	0	2456
46	2283	2526	0.82	0	0	0	0	2456
47	2248	2643	0.84	0	2470	2368	0	2316

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	2022-10-31T00:00:00	2022-10-31T12:59:00	2022-10-31T12:59:14	2022-11-01T01:27:04	2022-11-01T01:44:46	07:36:50	04:51:00
2	2022-11-07T00:00:00	2022-11-07T21:29:10	2022-11-07T21:30:23	2022-11-07T23:27:56	2022-11-07T23:29:07	01:57:33	00:00:00
3	2022-11-08T00:00:00	2022-11-08T04:26:20	2022-11-08T04:26:33	2022-11-08T06:43:03	2022-11-08T06:47:53	02:16:30	00:00:00
4	2022-11-08T00:00:00	2022-11-08T15:49:44	2022-11-08T15:50:12	2022-11-08T17:21:55	2022-11-08T17:31:27	01:31:43	00:00:00
5	2022-11-14T00:00:00	2022-11-14T02:51:00	2022-11-14T02:51:12	2022-11-14T04:05:49	2022-11-14T04:07:33	01:14:37	00:00:00
6	2022-11-14T00:00:00	2022-11-14T11:49:03	2022-11-14T11:49:18	2022-11-14T18:18:42	2022-11-14T18:20:41	06:29:24	00:00:00
7	2022-11-15T00:00:00	2022-11-15T06:50:50	2022-11-15T06:52:34	2022-11-15T10:19:11	2022-11-15T10:20:16	03:26:37	00:00:00
8	2022-11-15T00:00:00	2022-11-15T14:25:21	2022-11-15T14:26:48	2022-11-15T18:59:40	2022-11-15T19:05:10	04:31:21	00:01:31
9	2022-11-16T00:00:00	2022-11-16T00:12:29	2022-11-16T00:12:45	2022-11-16T02:31:40	2022-11-16T02:33:13	02:18:55	00:00:00
10	2022-11-16T00:00:00	2022-11-16T12:07:59	2022-11-16T12:08:39	2022-11-16T14:28:42	2022-11-16T14:29:30	02:20:03	00:00:00
11	2022-11-16T00:00:00	2022-11-16T18:01:43	2022-11-16T18:02:26	2022-11-16T21:31:55	2022-11-16T21:34:11	01:33:29	01:56:00
12	2022-11-17T00:00:00	2022-11-17T00:29:25	2022-11-17T00:29:32	2022-11-17T02:38:07	2022-11-17T02:39:30	02:08:35	00:00:00
13	2022-11-17T00:00:00	2022-11-17T05:58:30	2022-11-17T05:59:53	2022-11-17T07:52:56	2022-11-17T07:54:55	01:53:03	00:00:00
14	2022-11-17T00:00:00	2022-11-17T10:38:13	2022-11-17T10:38:33	2022-11-17T12:48:49	2022-11-17T12:50:01	02:10:16	00:00:00
15	2022-11-17T00:00:00	2022-11-17T15:19:00	2022-11-17T15:19:29	2022-11-17T17:27:20	2022-11-17T17:29:03	02:07:51	00:00:00
16	2022-11-17T00:00:00	2022-11-17T20:06:07	2022-11-17T20:06:11	2022-11-17T22:22:01	2022-11-17T22:23:19	02:15:50	00:00:00
17	2022-11-18T00:00:00	2022-11-18T02:25:07	2022-11-18T02:25:19	2022-11-18T04:12:13	2022-11-18T04:13:19	01:46:54	00:00:00
18	2022-11-18T00:00:00	2022-11-18T09:05:45	2022-11-18T09:06:01	2022-11-18T11:39:03	2022-11-18T11:39:55	02:33:02	00:00:00
19	2022-11-18T00:00:00	2022-11-18T14:36:10	2022-11-18T14:37:20	2022-11-18T16:45:52	2022-11-18T16:46:33	02:08:32	00:00:00
20	2022-11-18T00:00:00	2022-11-18T19:38:29	2022-11-18T19:39:00	2022-11-18T22:01:42	2022-11-18T22:02:39	02:22:42	00:00:00
21	2022-11-19T00:00:00	2022-11-19T01:18:50	2022-11-19T01:19:35	2022-11-19T03:35:43	2022-11-19T03:36:47	02:16:08	00:00:00
22	2022-11-19T00:00:00	2022-11-19T07:43:37	2022-11-19T07:44:26	2022-11-19T14:49:29	2022-11-19T14:50:29	02:47:03	04:18:00

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	2022-11-19T00:00:00	2022-11-19T19:33:03	2022-11-19T19:35:47	2022-11-19T21:42:48	2022-11-19T21:43:52	02:07:01	00:00:00
24	2022-11-20T00:00:00	2022-11-20T00:32:34	2022-11-20T00:32:58	2022-11-20T02:52:39	2022-11-20T02:53:44	02:19:41	00:00:00
25	2022-11-20T00:00:00	2022-11-20T06:30:09	2022-11-20T06:30:28	2022-11-20T08:55:33	2022-11-20T08:56:43	02:25:05	00:00:00
26	2022-11-20T00:00:00	2022-11-20T13:26:02	2022-11-20T13:26:09	2022-11-20T15:30:46	2022-11-20T15:31:58	02:04:37	00:00:00
27	2022-11-20T00:00:00	2022-11-20T19:38:12	2022-11-20T19:38:33	2022-11-20T21:51:15	2022-11-20T21:52:24	02:12:42	00:00:00
28	2022-11-21T00:00:00	2022-11-21T03:23:57	2022-11-21T03:24:33	2022-11-21T05:41:08	2022-11-21T05:41:59	02:16:35	00:00:00
29	2022-11-21T00:00:00	2022-11-21T08:04:32	2022-11-21T08:05:28	2022-11-21T10:09:16	2022-11-21T10:10:11	02:03:48	00:00:00
30	2022-11-21T00:00:00	2022-11-21T12:57:28	2022-11-21T12:57:33	2022-11-21T15:02:24	2022-11-21T15:03:06	02:04:51	00:00:00
31	2022-11-21T00:00:00	2022-11-21T20:57:28	2022-11-21T20:57:44	2022-11-21T23:05:11	2022-11-21T23:06:15	02:07:27	00:00:00
32	2022-11-22T00:00:00	2022-11-22T01:43:41	2022-11-22T01:44:14	2022-11-22T03:51:14	2022-11-22T03:52:27	02:07:00	00:00:00
33	2022-11-22T00:00:00	2022-11-22T06:32:19	2022-11-22T06:32:48	2022-11-22T08:45:30	2022-11-22T08:55:00	02:12:42	00:00:00
34	2022-11-22T00:00:00	2022-11-22T12:59:19	2022-11-22T12:59:24	2022-11-22T15:10:56	2022-11-22T15:12:01	02:11:32	00:00:00
35	2022-11-22T00:00:00	2022-11-22T19:16:04	2022-11-22T19:16:50	2022-11-22T21:27:20	2022-11-22T21:28:36	02:10:30	00:00:00
36	2022-11-23T00:00:00	2022-11-23T06:23:43	2022-11-23T06:23:48	2022-11-23T08:43:01	2022-11-23T08:51:57	02:19:13	00:00:00
37	2022-11-23T00:00:00	2022-11-23T12:46:00	2022-11-23T12:46:08	2022-11-23T14:56:50	2022-11-23T14:57:31	02:10:42	00:00:00
38	2022-11-23T00:00:00	2022-11-23T18:56:11	2022-11-23T18:57:02	2022-11-23T21:14:32	2022-11-23T21:16:23	02:17:30	00:00:00
39	2022-11-24T00:00:00	2022-11-24T01:26:04	2022-11-24T01:26:30	2022-11-24T04:13:35	2022-11-24T04:15:00	02:47:05	00:00:00
40	2022-11-24T00:00:00	2022-11-24T07:03:48	2022-11-24T07:04:00	2022-11-24T09:17:44	2022-11-24T09:18:29	02:13:44	00:00:00
41	2022-11-24T00:00:00	2022-11-24T12:23:00	2022-11-24T12:23:28	2022-11-24T14:41:25	2022-11-24T14:42:20	02:17:57	00:00:00
42	2022-11-24T00:00:00	2022-11-24T17:46:26	2022-11-24T17:46:52	2022-11-24T19:59:28	2022-11-24T20:00:51	02:12:36	00:00:00
43	2022-11-25T00:00:00	2022-11-25T00:25:22	2022-11-25T00:25:57	2022-11-25T02:35:35	2022-11-25T02:40:43	02:09:38	00:00:00
44	2022-11-25T00:00:00	2022-11-25T04:28:41	2022-11-25T04:28:56	2022-11-25T06:37:47	2022-11-25T06:45:58	02:08:51	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)
45	2022-11-25T00:00:00	2022-11-25T07:58:47	2022-11-25T07:58:59	2022-11-25T10:34:08	2022-11-25T10:40:19	02:35:09	00:00:00
46	2022-11-25T00:00:00	2022-11-25T11:41:19	2022-11-25T11:41:29	2022-11-25T13:47:18	2022-11-25T13:48:21	02:05:49	00:00:00
47	2022-11-25T00:00:00	2022-11-25T14:45:37	2022-11-25T14:45:53	2022-11-25T16:59:50	2022-11-25T17:12:48	02:13:57	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	Pumped 85% Prop	SplitFlow; WCU
2	0	60	0	Stage cut due to pressure	SplitFlow; WCU
3	0	60	0	Cut Sand due to Pressure	SplitFlow; WCU
4	0	60	0	Screened out	SplitFlow; WCU
5	0	60	0	Stage cut due to pressure	SplitFlow; WCU
6	0	60	0	Stage cut due to pressure	SplitFlow; WCU
7	0	60	0	Cut sand due to pressure	SplitFlow; WCU
8	0	60	0	Stage cut short due to pressure	SplitFlow; WCU
9	0	60	0	Stage cut short due to pressure	SplitFlow; WCU
10	0	60	0	Pumped to completion	SplitFlow; WCU
11	0	60	0	Stage cut short due to pressure	SplitFlow; WCU
12	0	60	0	Pumped to completion	SplitFlow; WCU
13	0	60	0	Cut 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	Pumped to completion	SplitFlow; WCU
20	0	60	0	Pumped to completion.	SplitFlow; WCU
21	0	60	0	Pumped to completion.	SplitFlow; WCU
22	0	60	0	Pumped to completion.	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	Pumped to completion.	SplitFlow; WCU
25	0	60	0	Pumped to completion	SplitFlow; WCU
26	0	60	0	Pumped to completion	SplitFlow; WCU
27	0	60	0	Pumped to completion.	SplitFlow; WCU
28	0	60	0	Pumped to completion	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
39	0	60	0	Pumped to completion	SplitFlow; WCU
40	0	60	0	Pumped to completion	SplitFlow; WCU
41	0	60	0	Pumped to completion	SplitFlow; WCU
42	0	60	0	Pumped to completion.	SplitFlow; WCU
43	0	60	0	Pumped to completion.	SplitFlow; WCU
44	0	60	0	Pumped to completion	SplitFlow; WCU

QA / QC TECHNICAL DATA

Treatment Interval	Gel Viscosity (cP)	Fluid Temperature (F)	Gel pH	Interval Comments	Technology Application
45	0	60	0	Pumped to completion	SplitFlow; WCU
46	0	60	0	Pumped to completion	SplitFlow; WCU
47	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	17417	0.931

TREATMENT CUSTOM VARIABLES

Treatment Interval	Avg PSI	Avg Rate	ISIP	MAX Rate	Max PSI
	PSI	BPM	PSI	BPM	PSI
1	75.3	6333	8796	77.7	9377
2	6606	64.8	3191	80.3	8913
3	6603	68.2	3635	72	8859
4	5943	55.2	2972	72.4	9941
5	7120	65.2	3462	90.6	8691
6	7070	79.2	4068	88.2	8030
7	6514	79.7	3365	83.6	7338
8	4045	41	3540	85.6	7492
9	6558	80.8	3678	82.4	6996
10	7052	83.1	3516	85.2	7710
11	3459	30.5	3557	83.4	8693
12	6239	82.4	3099	86	6640
13	6593	87.7	3177	87.7	7043
14	6530	89.4	3188	90.5	6879
15	6448	88.9	3076	90.4	6690
16	5973	83.7	2647	90	6492
17	5739	81.7	2698	85.8	6691
18	5622	83	2511	85.6	6436
19	5686	89.9	2561	92.1	6604
20	5700	85.2	2841	92.7	8242
21	5512	87.1	2837	91.7	7310
22	5265	82.5	2560	90.6	9060

TREATMENT CUSTOM VARIABLES

Treatment Interval	Avg PSI	Avg Rate	ISIP	MAX Rate	Max PSI
	PSI	BPM	PSI	BPM	PSI
23	5073	78.5	2550	83.6	6843
24	5140	77.7	2607	80.7	6027
25	5108	88.3	2794	84.3	5108
26	5190	86.5	2517	88.2	5627
27	5299	84.1	2606	88.8	7703
28	4860	84.9	2399	84.9	6270
29	4976	89	2467	89.9	5509
30	4278	83.4	2259	85.7	4734
31	4150	82.1	2407	86.3	6290
32	4562	85.2	2372	86.3	8704
33	4481	80.2	2408	90.7	6177
34	4365	79.5	2366	87.2	5306
35	4617	85	2707	87	5477
36	4532	76.5	2481	87.3	6643
37	4535	77.4	2639	84.8	6340
38	4471	85	2677	86	4626
40	4023	76.2	2670	87.6	5254
41	3947	78.4	2536	85.9	7273
42	4162	83.5	2805	87	4960
43	4013	85	2770	86	4264
44	4244	77.6	2719	85.8	5055
45	4307	74.5	2690	86.1	7500

TREATMENT CUSTOM VARIABLES

Treatment Interval	Avg PSI PSI	Avg Rate BPM	ISIP PSI	MAX Rate BPM	Max PSI PSI
46	4170	78.6	2526	87.2	5552
47	3946	73.1	2643	86.6	5846

STAGE DESCRIPTION

Treatment Interval	Acid		Breakdown		Flush		PLF		Pad		Pre-Flush		Shut-In	
	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	1320	21322	44502	423500	408922	16050	148464	0	0	0	0
2	1000	992	0	808	21117	57489	423500	125538	16050	77198	0	0	0	0
3	1000	992	0	825	20912	21642	423500	269494	16050	45029	0	2305	0	0
4	1000	992	0	1593	20707	17238	423500	145115	16050	42981	0	0	0	1
5	1000	992	0	913	20502	25804	423500	90760	16050	62905	0	0	0	0
6	1000	992	0	1175	19197	68909	423500	185883	16050	121803	0	0	0	0
7	1000	992	0	1274	18992	23044	423500	325481	16050	101470	0	0	0	0
8	1000	992	0	1358	18787	27027	423500	262392	16050	147266	0	0	0	0
9	1000	992	0	906	18582	27104	423500	292099	16050	85636	0	0	0	0
10	1000	992	0	1583	18378	22473	423500	339018	16050	46391	0	0	0	0
11	1000	992	0	724	18173	72089	423500	105901	16050	63035	0	0	0	0
12	1000	992	0	930	17968	22382	423500	318295	16050	40636	0	0	0	0
13	1000	992	0	1203	17763	47608	423500	258897	16050	34956	0	0	0	0
14	1000	992	0	722	17558	18034	423500	360791	16050	35787	0	2824	0	0
15	1000	992	0	567	17353	17663	423500	329615	16050	56512	0	3078	0	0
16	1000	992	0	0	17148	21287	423500	326052	16050	69557	0	0	0	2
17	1000	992	0	712	16943	17452	423500	245414	16050	44359	0	3026	0	0
18	1000	992	0	652	16738	16972	423500	369627	16050	47865	0	2177	0	0
19	1000	992	0	827	16533	20451	423500	352050	16050	46245	0	0	0	0
20	1000	992	0	725	16328	20631	423500	340166	16050	99474	0	0	0	0
21	1000	992	0	719	16123	22107	423500	388338	16050	38938	0	0	0	0
22	1000	1000	0	793	15919	15863	423500	373201	16050	120795	0	2866	0	0

STAGE DESCRIPTION

Treatment Interval	Acid		Breakdown		Flush		PLF		Pad		Pre-Flush		Shut-In	
	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	794	15714	39151	423500	294943	16050	40200	0	0	0	0
24	1000	992	0	695	15509	15070	423500	359993	16050	35997	0	3068	0	0
25	1000	992	0	918	15304	19065	423500	355208	16050	38966	0	0	0	0
26	1000	992	0	869	15099	19206	423500	326285	16050	46509	0	0	0	0
27	1000	992	0	468	14894	14926	423500	369095	16050	37721	0	2640	0	0
28	1000	992	0	433	14689	15006	423500	361288	16050	53755	0	2830	0	0
29	1000	992	0	510	14484	18282	423500	341865	16050	45752	0	0	0	0
30	1000	1000	0	818	14279	19507	423500	323157	16050	38186	0	0	0	0
31	1000	1000	0	725	14074	14118	423500	346677	16050	22850	0	2531	0	0
32	1000	1000	0	551	13869	17368	423500	354348	16050	28840	0	0	0	0
33	1000	992	0	623	13664	22203	423500	385155	16050	30627	0	0	0	0
34	1000	992	0	742	13460	17868	423500	378880	11050	26171	0	0	0	0
35	1000	992	0	508	13255	13113	423500	366861	11050	27428	0	2871	0	0
36	1000	992	0	702	13050	16798	423500	387692	11050	30524	0	2628	0	0
37	1000	992	0	800	12845	12735	423500	370526	11050	23970	0	3114	0	0
38	1000	992	0	628	12640	12638	423500	367241	11050	56969	0	2871	0	0
39	1000	992	0	953	12435	38303	423500	351265	11050	50855	0	0	0	0
40	1000	1141	0	301	12230	18986	423500	369031	11050	27246	0	0	0	0
41	1000	1141	0	350	12025	16760	423500	401453	11050	23289	0	0	0	0
42	1000	992	0	586	11820	19135	423500	342538	11050	29038	0	0	0	0
43	1000	992	0	864	11615	18522	423500	333137	11050	35956	0	0	0	0
44	1000	1141	0	645	11410	17110	423500	361988	11050	29993	0	0	0	0

STAGE DESCRIPTION

Treatment Interval	Acid		Breakdown		Flush		PLF		Pad		Pre-Flush		Shut-In	
	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)
45	1000	1141	0	650	11205	16032	423500	383686	11050	20578	0	0	0	0
46	1000	1131	0	0	11001	14397	423500	360721	11050	27602	0	0	0	0
47	1000	1141	0	649	10796	17797	423500	349351	11050	30981	0	0	0	0
Total	47000	47540	0	36111	734409	1111867	19904500	15155433	684350	2437305	0	38829	0	3

STAGE DESCRIPTION

Treatment Interval	Spacer		Wireline Pump-In		Total	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
1	0	124379	0	27468	461872	756047
2	0	55720	0	23562	461667	341307
3	0	0	0	23856	461462	364143
4	0	0	0	37170	461257	245090
5	0	20756	0	35280	461052	237410
6	0	0	0	25830	459747	404592
7	0	20925	0	24696	459542	497882
8	0	20875	0	22512	459337	482422
9	0	0	0	23688	459132	430425
10	0	0	0	59178	458928	469635
11	0	45061	0	21462	458723	309264
12	0	0	0	22974	458518	406209
13	0	0	0	18774	458313	362430
14	0	0	0	17430	458108	436580
15	0	0	0	18396	457903	426823
16	0	0	0	16338	457698	434228
17	0	0	0	16800	457493	328755
18	0	28152	0	16632	457288	483069
19	0	0	0	15666	457083	436231
20	0	0	0	15036	456878	477024
21	0	0	0	15204	456673	466298
22	0	20538	0	14154	456469	549210

STAGE DESCRIPTION

Treatment Interval	Spacer		Wireline Pump-In		Total	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
23	0	3387	0	15834	456264	395301
24	0	0	0	13524	456059	429339
25	0	0	0	13062	455854	428211
26	0	0	0	12852	455649	406713
27	0	0	0	11928	455444	437770
28	0	0	0	11886	455239	446190
29	0	0	0	10836	455034	418237
30	0	0	0	10500	454829	393168
31	0	0	0	9534	454624	397435
32	0	0	0	9576	454419	411683
33	0	0	0	8526	454214	448126
34	0	0	0	8988	449010	433641
35	0	0	0	9072	448805	420845
36	0	0	0	7686	448600	447022
37	0	0	0	7770	448395	419907
38	0	0	0	6762	448190	448101
39	0	0	0	6426	447985	448794
40	0	0	0	5292	447780	421997
41	0	0	0	5166	447575	448159
42	0	11717	0	4200	447370	408206
43	0	0	0	3990	447165	393461
44	0	0	0	2940	446960	413817

STAGE DESCRIPTION

Treatment Interval	Spacer		Wireline Pump-In		Total	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
45	0	53990	0	2814	446755	478891
46	0	0	0	1974	446551	405825
47	0	3354	0	1302	446346	404575
Total	0	408854	0	714546	21370259	19950488

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	7.6	1313.56	1313.56	1313.56
	3	Acid	15% HCl		0	0	0	10.26	997.34	997.34	2310.9
	4	Pad	FR Water (FightR EC-1)		0	0	0	7.68	20904.16	20904.16	23215.06
	5	Pad	Hybor G 25#		0	0	0	65.9	53983.73	53983.73	77198.79
	6	Pad	FR Water (FightR EC-1)		0	0	0	31.25	20962.45	20962.45	98161.24
	7	Pad	Hybor G 25#		0	0	0	62.17	8842.62	8842.62	107003.86
	8	Pad	FR Water (FightR EC-1)		0	0	0	70.26	2334.68	2334.68	109338.54
	9	Pad	Hybor G 25#		0	0	0	70.01	2573.3	2573.3	111911.84
	10	Pad	FR Water (FightR EC-1)		0	0	0	70.04	2228.17	2228.17	114140.01
	11	Pad	Hybor G 25#		0	0	0	74.03	36583.93	36583.93	150723.94
	12	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	74.32	23838.2	24689.53	174562.14
	13	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	74.16	12296.25	13159.33	186858.39
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	74.07	1911.67	2042.67	188770.06
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	73.93	136381.61	139769.23	325151.67
	16	Spacer	FR Water (FightR EC-1)		0	0	0	62.77	97287.87	97306.94	422439.54
	17	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	76.83	30278.9	30958.06	452718.44
	18	Spacer	FR Water (FightR EC-1)		0	0	0	76.9	27037.2	27065.57	479755.64
	19	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	76.63	138221.73	139875.96	617977.37
	20	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	76.63	66047.82	67604.37	684025.19
	21	Flush	FR Water (FightR EC-1)		0	0	0	76.48	3536.71	3567.84	687561.9
	22	Flush	FR Water (FightR EC-1)		0	0	0	3.72	41018.59	41018.62	728580.49
	2	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.29	801.17	801.17

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	3	Acid	15% HCl		0	0	0	9.94	996.06	996.06	730377.72	
	4	Pad	FR Water (FightR EC-1)		0	0	0	47.08	77200.68	77349.02	807578.4	
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	70.25	2319.75	2329.91	809898.15	
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	70.86	2994.64	3001.51	812892.79	
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	72.88	13761.37	14050.97	826654.16	
	8	Spacer	FR Water (FightR EC-1)		0	0	0	74.14	23113.2	23140.81	849767.36	
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	77.49	16112.07	16410.89	865879.43	
	10	Spacer	FR Water (FightR EC-1)		0	0	0	78.2	32600.48	32628.4	898479.91	
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.91	62934.71	63594.25	961414.62	
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.92	27367.89	27992.18	988782.51	
	13	Flush	FR Water (FightR EC-1)		0	0	0	78.91	50724.59	50755.7	1039507.1	
	14	Flush	FR Water (FightR EC-1)		0	0	0	35.15	6819.71	6819.89	1046326.81	
	3	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.14	824.63	824.64	1047151.44
		3	Acid	15% HCl		0	0	0	9.92	987.85	987.85	1048139.29
4		Pad	FR Water (FightR EC-1)		0	0	0	42.84	45032.82	45032.82	1093172.11	
5		PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	71.52	16120.86	16408.63	1109292.97	
6		PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	71.37	40568.02	42440.55	1149860.99	
7		PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	67.76	212805.01	217951.53	1362666	
8		Pre-Flush	FR Water (FightR EC-1)		0	0	0	55.11	2305.38	2334.11	1364971.38	
9		Flush	FR Water (FightR EC-1)		0	0	0	35.37	21642.48	21642.7	1386613.86	
4		2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.57	1592.58	1592.59	1388206.44
	3	Acid	15% HCl		0	0	0	10.87	990.56	990.56	1389197	

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	4	Pad	FR Water (FightR EC-1)		0	0	0	40.9	42981.8	42981.82	1432178.8
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	72.25	23468.56	24242.35	1455647.36
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	72.08	14930.27	15987.18	1470577.63
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	71.65	47361.46	48581.62	1517939.09
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.65	0.65	0.65	70.65	59354.02	61216.68	1577293.11
	9	Flush	FR Water (FightR EC-1)		0	0	0	20.97	16687.62	16730.74	1593980.73
	11	Flush	FR Water (FightR EC-1)		0	0	0	5.32	553.6	553.6	1594534.33
5	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.92	912.66	912.68	1595446.99
	3	Acid	15% HCl		0	0	0	9.92	988.29	988.28	1596435.28
	4	Pad	FR Water (FightR EC-1)		0	0	0	53.28	62908.7	62908.69	1659343.98
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	90.15	11056.12	11221.63	1670400.1
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.72	7147.58	7431.65	1677547.68
	7	Spacer	FR Water (FightR EC-1)		0	0	0	84.43	20755.38	20845.97	1698303.06
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.83	1740	1740.47	1700043.06
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.74	70769.26	72362.97	1770812.32
	10	Flush	FR Water (FightR EC-1)		0	0	0	70.07	18943.99	18981.79	1789756.31
	11	Flush	FR Water (FightR EC-1)		0	0	0	30.99	6908.65	6908.59	1796664.96
6	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.62	1174.55	1174.55	1797839.51
	3	Acid	15% HCl		0	0	0	9.95	991.46	991.46	1798830.97
	4	Pad	FR Water (FightR EC-1)		0	0	0	9.94	738.1	738.1	1799569.07
	5	Pad	Hybor G 25#		0	0	0	18.54	701.91	701.91	1800270.98
	6	Pad	FR Water (FightR EC-1)		0	0	0	13.05	36923.46	36923.46	1837194.44

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	7	Pad	Hybor G 25#		0	0	0	75.15	8348.15	8348.15	1845542.59
	8	Pad	FR Water (FightR EC-1)		0	0	0	26.04	21135.87	21135.87	1866678.46
	9	Pad	Hybor G 25#		0	0	0	76.57	34447.97	34447.97	1901126.43
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.68	29765.74	31180.66	1930892.17
	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.34	2766.65	3028.88	1933658.82
	12	Flush	FR Water (FightR EC-1)		0	0	0	3.47	30209.11	30309.68	1963867.93
	13	Pad	Hybor G 25#		0	0	0	64.88	19506.9	19506.9	1983374.83
	14	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.77	29415.34	30700.71	2012790.17
	15	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	86.24	7407.96	8111.33	2020198.13
	16	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	87.48	116526.6	119441.82	2136724.73
	17	Flush	FR Water (FightR EC-1)		0	0	0	59.19	38699.8	38732.01	2175424.53
7	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.87	1273.63	1273.63	2176698.16
	3	Acid	15% HCl		0	0	0	10.5	987.69	987.69	2177685.85
	4	Pad	FR Water (FightR EC-1)		0	0	0	27.63	101417.56	101417.58	2279103.41
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	81.73	30757.5	32028.92	2309860.91
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	82.22	24072.44	26284.21	2333933.35
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	81.82	157775.28	161696.21	2491708.63
	8	Spacer	FR Water (FightR EC-1)		0	0	0	76.97	20923.4	20963.84	2512632.03
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	76.62	30748.18	31140.63	2543380.21
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	76.62	82133.66	84217.86	2625513.87
	11	Flush	FR Water (FightR EC-1)		0	0	0	76.41	3422.61	3458.93	2628936.48
	12	Flush	FR Water (FightR EC-1)		0	0	0	57.75	19674.21	19674.19	2648610.69

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)
8	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.85	1352.15	1352.14	2649962.84
	3	Acid	15% HCl		0	0	0	8.18	995.24	995.23	2650958.08
	4	Pad	FR Water (FightR EC-1)		0	0	0	43.24	56854.39	56854.35	2707812.47
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.67	21044.1	21628.37	2728856.57
	6	Flush	FR Water (FightR EC-1)		0	0	0	85.65	4495.88	4601.65	2733352.45
	7	Pad	FR Water (FightR EC-1)		0	0	0	15.05	90353.88	90353.94	2823706.33
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.7	17660.96	18390.79	2841367.29
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.64	3505.61	3775.91	2844872.9
	10	Spacer	FR Water (FightR EC-1)		0	0	0	85	20875.34	20976.24	2865748.24
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.66	19717.62	20664.63	2885465.86
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.71	10175.49	10954.3	2895641.35
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.4	12376.22	12766.41	2908017.57
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	82.7	177971.16	181446.58	3085988.73
	15	Flush	FR Water (FightR EC-1)		0	0	0	38.54	22530.83	22548.19	3108519.56
	9	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.43	905.83	905.9
3		Acid	15% HCl		0	0	0	12.53	976.34	976.32	3110401.73
4		Pad	FR Water (FightR EC-1)		0	0	0	23.54	15926.83	15926.75	3126328.56
5		Pad	Hybor G 25#		0	0	0	78.72	69667.38	69667.37	3195995.94
6		PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	81.06	12110.38	12268.24	3208106.32
7		PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.57	57800.89	59162.92	3265907.21
8		PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	82.08	5061.27	5170.03	3270968.48
9		PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.91	217184.15	222071.9	3488152.63

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)
9	10	Flush	FR Water (FightR EC-1)		0	0	0	54.72	27103.8	27125.58	3515256.43
10	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.34	1582.84	1582.84	3516839.27
	3	Acid	15% HCl		0	0	0	10.19	987.11	987.06	3517826.38
	4	Pad	FR Water (FightR EC-1)		0	0	0	44.23	46336.4	46336.57	3564162.78
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.21	31097.66	32232.91	3595260.44
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.24	29215.82	31813.19	3624476.26
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.01	278709.13	285349.26	3903185.39
	8	Flush	FR Water (FightR EC-1)		0	0	0	78.46	3842.99	3884.48	3907028.38
	9	Flush	FR Water (FightR EC-1)		0	0	0	67.17	18684.73	18684.77	3925713.11
11	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.45	717.08	717.08	3926430.19
	3	Acid	15% HCl		0	0	0	12.15	986.4	986.42	3927416.59
	4	Pad	FR Water (FightR EC-1)		0	0	0	28.26	17681.21	17681.13	3945097.8
	5	Pad	Hybor G 25#		0	0	0	83.69	40264.33	40264.33	3985362.13
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.75	38153.35	40154.17	4023515.48
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.58	4223.27	4729.29	4027738.75
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	82.63	2026.67	2277.31	4029765.42
	9	Spacer	FR Water (FightR EC-1)		0	0	0	10.41	45060.79	45227.7	4074826.21
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	82.32	1860.21	1862.38	4076686.42
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	81.75	21523.47	22034.36	4098209.89
	12	Flush	FR Water (FightR EC-1)		0	0	0	24.75	22346.19	22379.35	4120556.08
	13	Flush	Hybor G 25#		0	0	0	71.37	27155.49	27155.58	4147711.57
14	Pad	FR Water (FightR EC-1)		0	0	0	80.16	5043.49	5043.48	4152755.06	

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	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	79.32	38117.01	38528.45	4190872.07
	16	Flush	FR Water (FightR EC-1)		0	0	0	37.35	22643.42	22656.24	4213515.49
12	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.55	923.56	923.54	4214439.05
	3	Acid	15% HCl		0	0	0	11.44	991.77	991.75	4215430.82
	4	Pad	FR Water (FightR EC-1)		0	0	0	24.53	14670.68	14670.64	4230101.5
	5	Pad	Hybor G 25#		0	0	0	84.2	25911.43	25911.43	4256012.93
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.59	38267.71	40310.13	4294280.64
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	83.83	10748.61	11987.74	4305029.25
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	83.92	2607.55	2907.25	4307636.8
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	83.56	8157.53	9101.17	4315794.33
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.37	2036.65	2271.27	4317830.98
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	81.79	256537.07	262835.9	4574368.05
	12	Flush	FR Water (FightR EC-1)		0	0	0	80.07	3891.1	3908.06	4578259.15
13	Flush	FR Water (FightR EC-1)		0	0	0	54.07	18490.88	18490.88	4596750.03	
13	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.23	1202.58	1202.59	4597952.61
	3	Acid	15% HCl		0	0	0	9.67	991.68	991.66	4598944.29
	4	Pad	FR Water (FightR EC-1)		0	0	0	9.7	356.49	356.46	4599300.78
	5	Pad	Hybor G 25#		0	0	0	9.7	198.93	198.94	4599499.71
	6	Pad	FR Water (FightR EC-1)		0	0	0	26.34	15978.49	15978.56	4615478.2
	7	Pad	Hybor G 25#		0	0	0	74.77	18361.22	18361.23	4633839.42
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	87.13	28896.78	30131.36	4662736.2
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	86.95	24829.19	26997.09	4687565.39

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	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	86.42	205232.52	210361.51	4892797.91
	11	Flush	FR Water (FightR EC-1)		0	0	0	74.08	47607.77	47652.87	4940405.68
14	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.13	721.55	721.56	4941127.23
	3	Acid	15% HCl		0	0	0	9.81	985.75	985.74	4942112.98
	4	Pad	FR Water (FightR EC-1)		0	0	0	14.29	437.77	437.78	4942550.75
	5	Pad	Hybor G 25#		0	0	0	29.6	230.2	230.21	4942780.95
	6	Pad	FR Water (FightR EC-1)		0	0	0	30.58	19324.68	19324.66	4962105.63
	7	Pad	Hybor G 25#		0	0	0	80	15799.68	15799.67	4977905.31
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.97	30329.72	31621.94	5008235.03
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.92	24598.1	26876.94	5032833.13
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.38	305862.64	313559.16	5338695.77
	11	Pre-Flush	FR Water (FightR EC-1)		0	0	0	89.39	2823.65	2846.54	5341519.42
	12	Flush	FR Water (FightR EC-1)		0	0	0	66.72	18033.61	18033.63	5359553.03
15	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.22	559.61	559.57	5360112.64
	3	Acid	15% HCl		0	0	0	10.78	999.25	999.31	5361111.89
	4	Pad	FR Water (FightR EC-1)		0	0	0	21.81	4102.79	4102.78	5365214.68
	5	Pad	Hybor G 25#		0	0	0	29.33	1224.34	1224.36	5366439.02
	6	Pad	FR Water (FightR EC-1)		0	0	0	41.29	26340.12	26340.22	5392779.14
	7	Pad	Hybor G 25#		0	0	0	87.81	24783.13	24783.14	5417562.27
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	87.56	31166.62	32397.22	5448728.89
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.64	26608	29030.94	5475336.89
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.04	271842.21	278735.94	5747179.1

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	11	Pre-Flush	FR Water (FightR EC-1)		0	0	0	88.08	3077.11	3113.04	5750256.21
	12	Flush	FR Water (FightR EC-1)		0	0	0	62.55	17725.12	17725.07	5767981.33
16	2	Shut-In	FR Water (FightR EC-1)		0	0	0	0.19	1.98	1.98	5767983.31
	3	Pad	FR Water (FightR EC-1)		0	0	0	7.74	863.91	863.89	5768847.22
	4	Acid	15% HCl		0	0	0	14.09	989.27	989.28	5769836.49
	5	Pad	FR Water (FightR EC-1)		0	0	0	24.12	13822.64	13822.55	5783659.13
	6	Pad	Hybor G 25#		0	0	0	87.85	54872.93	54872.93	5838532.06
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.96	38217.82	40281.74	5876749.88
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.13	31525.81	34849.04	5908275.69
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.31	155772.71	159451.9	6064048.4
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.65	0.65	0.65	79.87	62559.35	64412.57	6126607.75
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	79.61	37975.83	39240.68	6164583.58
	12	Flush	FR Water (FightR EC-1)		0	0	0	76.19	3967.28	3989.53	6168550.86
13	Flush	FR Water (FightR EC-1)		0	0	0	51.39	17319.61	17319.57	6185870.47	
17	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.12	705.39	705.34	6186575.86
	3	Acid	15% HCl		0	0	0	12.67	996.51	996.5	6187572.37
	4	Pad	FR Water (FightR EC-1)		0	0	0	24.33	13323.32	13323.32	6200895.69
	5	Pad	Hybor G 25#		0	0	0	81.53	30977.91	30977.87	6231873.6
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.23	38108.32	40208.4	6269981.92
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	83.14	30367.05	33857.95	6300348.97
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.65	0.65	0.65	80.8	176942.19	182006.61	6477291.16
	9	Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.52	3082.23	3088.23	6480373.39

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)
17	10	Flush	FR Water (FightR EC-1)		0	0	0	55.37	17452.08	17452.09	6497825.47
18	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.95	645.3	645.32	6498470.77
	3	Acid	15% HCl		0	0	0	9.88	998.4	998.37	6499469.17
	4	Pad	FR Water (FightR EC-1)		0	0	0	10.77	732.4	732.39	6500201.57
	5	Pad	Hybor G 25#		0	0	0	28.65	817.56	817.58	6501019.13
	6	Pad	FR Water (FightR EC-1)		0	0	0	36.44	26422.52	26422.6	6527441.65
	7	Pad	Hybor G 25#		0	0	0	83.2	19832.51	19832.52	6547274.16
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.67	32731.21	34211.18	6580005.37
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	83.98	20371.95	22436.63	6600377.32
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.49	174425.1	179001.92	6774802.42
	11	Spacer	FR Water (FightR EC-1)		0	0	0	84.98	28152.25	28186.24	6802954.67
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	84.65	35358.96	35794.19	6838313.63
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.11	106747.29	109269.91	6945060.92
	14	Pre-Flush	FR Water (FightR EC-1)		0	0	0	77.5	2176.02	2192.18	6947236.94
15	Flush	FR Water (FightR EC-1)		0	0	0	64.7	17026.75	17026.84	6964263.69	
19	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.7	826.65	826.7	6965090.34
	3	Acid	15% HCl		0	0	0	9.87	991.72	991.72	6966082.06
	4	Pad	FR Water (FightR EC-1)		0	0	0	12.92	438.98	438.97	6966521.04
	5	Pad	Hybor G 25#		0	0	0	28.49	221.63	221.63	6966742.67
	6	Pad	FR Water (FightR EC-1)		0	0	0	37.84	27163.96	27164.1	6993906.63
	7	Pad	Hybor G 25#		0	0	0	90.1	18420.89	18420.87	7012327.52
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	90.05	31191.11	32348.71	7043518.63

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)
19	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.66	24996.08	27274.38	7068514.71
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	90.08	295801.28	302865	7364315.99
	11	Flush	FR Water (FightR EC-1)		0	0	0	90.13	3729.19	3760.6	7368045.18
	12	Flush	FR Water (FightR EC-1)		0	0	0	74.48	16784.36	16784.32	7384829.54
20	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.67	724.5	724.55	7385554.04
	3	Acid	15% HCl		0	0	0	10.86	988.56	988.57	7386542.6
	4	Pad	FR Water (FightR EC-1)		0	0	0	23.39	12345.69	12345.79	7398888.29
	5	Pad	Hybor G 25#		0	0	0	85.67	49033.7	49033.73	7447921.99
	6	Pad	Hybor G 25#		0	0	0	88.38	38096.37	39849.13	7486018.36
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	88.92	18522.7	20556.51	7504541.06
	8	PLF	Hybor G 25#	30/50 Premium White	0.5	0.5	0.5	88	1895.24	2053.11	7506436.3
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	87.18	319748.33	327170.99	7826184.63
	10	Flush	FR Water (FightR EC-1)		0	0	0	83.22	3572.63	3590.58	7829757.26
	11	Flush	FR Water (FightR EC-1)		0	0	0	66.07	17058.15	17058.15	7846815.41
21	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.86	718.88	718.88	7847534.29
	3	Acid	15% HCl		0	0	0	10.9	986.51	986.51	7848520.8
	4	Pad	FR Water (FightR EC-1)		0	0	0	49.39	38943.38	38943.38	7887464.18
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.61	30470.79	31690.79	7917934.97
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.43	34906.31	37821.74	7952841.28
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.09	280485.65	286661.58	8233326.93
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.6	0.6	0.6	88.75	42475.17	43492.38	8275802.1
	9	Flush	FR Water (FightR EC-1)		0	0	0	88.72	5357.62	5395.87	8281159.72

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)
21	10	Flush	FR Water (FightR EC-1)		0	0	0	66.89	16748.54	16748.54	8297908.26
22	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.31	785.87	785.88	8298694.13
	3	Acid	15% HCl		0	0	0	9.95	1006.68	1006.69	8299700.81
	4	Pad	FR Water (FightR EC-1)		0	0	0	53.27	120732.24	120732.23	8420433.05
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.05	30903.69	32111.73	8451336.74
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	86.99	28407.42	30701.3	8479744.16
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.5	10871.05	11263.94	8490615.21
	8	Spacer	FR Water (FightR EC-1)		0	0	0	89.71	7917.44	7917.92	8498532.65
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.74	5247.54	5508.17	8503780.19
	10	Spacer	FR Water (FightR EC-1)		0	0	0	89.77	12558	12677.4	8516338.19
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.63	297897.16	305269.22	8814235.35
	12	Pre-Flush	FR Water (FightR EC-1)		0	0	0	83.57	2807.35	2836.03	8817042.7
23	13	Flush	FR Water (FightR EC-1)		0	0	0	61.24	15921.64	15921.62	8832964.34
	2	Breakdown	FR Water (FightR EC-1)		0	0	0	3.77	787.32	787.33	8833751.66
	3	Acid	15% HCl		0	0	0	10.02	992.6	992.59	8834744.26
	4	Pad	FR Water (FightR EC-1)		0	0	0	46.29	34692.31	34692.39	8869436.57
	5	Pad	FR Water (FightR EC-1)		0	0	0	80.32	5458.01	5458.04	8874894.58
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.97	5995.36	5995.36	8880889.94
	7	Spacer	FR Water (FightR EC-1)		0	0	0	79.99	3387.67	3392.82	8884277.61
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.74	33032.92	35009.86	8917310.53
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	81.15	21029.4	23415.82	8938339.93
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.38	234885.61	240272.14	9173225.54

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	11	Flush	FR Water (FightR EC-1)		0	0	0	80.05	3658.47	3679.92	9176884.01
	12	Flush	FR Water (FightR EC-1)		0	0	0	71.44	35547.89	35547.8	9212431.9
24	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.73	694.64	694.62	9213126.54
	3	Acid	15% HCl		0	0	0	9.93	989.52	989.51	9214116.06
	4	Pad	FR Water (FightR EC-1)		0	0	0	44.76	35999.23	35999.23	9250115.29
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.23	38450.69	40351.16	9288565.98
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.18	9089.74	10099.84	9297655.72
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.74	312452.44	319675.59	9610108.16
	8	Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.31	3067.84	3084.38	9613176
	9	Flush	FR Water (FightR EC-1)		0	0	0	60.52	15069.65	15069.65	9628245.65
25	2	Breakdown	FR Water (FightR EC-1)		0	0	0	1.7	917.67	917.67	9629163.32
	3	Acid	15% HCl		0	0	0	10.03	987.06	987.09	9630150.38
	4	Pad	FR Water (FightR EC-1)		0	0	0	10.13	107.61	107.62	9630257.99
	5	Pad	Hybor G 25#		0	0	0	15.51	230.91	230.89	9630488.9
	6	Pad	FR Water (FightR EC-1)		0	0	0	28.57	17667.05	17667.08	9648155.95
	7	Pad	Hybor G 25#		0	0	0	79.67	20965.14	20965.02	9669121.09
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.5	29955.75	31102.03	9699076.84
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	83.06	23041.45	25135.56	9722118.29
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.69	302211.06	309431.9	10024329.35
	11	Flush	FR Water (FightR EC-1)		0	0	0	84.57	3815.17	3829	10028144.52
	12	Flush	FR Water (FightR EC-1)		0	0	0	63.41	15250.02	15250.01	10043394.54
26	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.45	861.65	861.69	10044256.19

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	3	Acid	15% HCl		0	0	0	10.97	992.34	992.3	10045248.53
	4	Pad	FR Water (FightR EC-1)		0	0	0	50.08	46455.14	46455.06	10091703.67
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	86.49	30901.43	32104.34	10122605.1
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	86.02	25672.31	27927.56	10148277.41
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	86.62	269713.43	276122.31	10417990.84
	8	Flush	FR Water (FightR EC-1)		0	0	0	85.8	4015.87	4063.67	10422006.71
	9	Flush	FR Water (FightR EC-1)		0	0	0	61.11	15248.81	15248.81	10437255.52
27	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.79	467.91	467.92	10437723.43
	3	Acid	15% HCl		0	0	0	9.81	991	991.03	10438714.43
	4	Pad	FR Water (FightR EC-1)		0	0	0	48.15	37722.04	37722.1	10476436.47
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	87.89	38602.78	40446.41	10515039.25
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	87.57	10121.17	11268.8	10525160.42
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.91	320315.37	327738	10845475.79
	8	Pre-Flush	FR Water (FightR EC-1)		0	0	0	81.6	2638.66	2652.31	10848114.45
	9	Flush	FR Water (FightR EC-1)		0	0	0	58	14984.16	14984.22	10863098.61
28	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.26	432.7	432.69	10863531.31
	3	Acid	15% HCl		0	0	0	9.75	992.12	992.15	10864523.43
	4	Pad	FR Water (FightR EC-1)		0	0	0	54.87	53695.04	53695.06	10918218.47
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85	38592.28	40678.37	10956810.75
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.99	14167.43	15804.32	10970978.18
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.98	308530.79	315849.75	11279508.97
	8	Pre-Flush	FR Water (FightR EC-1)		0	0	0	85.89	2827.57	2850.38	11282336.54

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	9	Flush	FR Water (FightR EC-1)		0	0	0	64.97	15067	15067.05	11297403.54
29	2	Breakdown	FR Water (FightR EC-1)		0	0	0	3.86	509.77	509.8	11297913.31
	3	Acid	15% HCl		0	0	0	9.82	989.92	989.87	11298903.23
	4	Pad	FR Water (FightR EC-1)		0	0	0	53.18	45754.3	45754.24	11344657.53
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	88.96	30848.78	32157.29	11375506.31
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	88.45	25058.89	27316.16	11400565.2
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	89.16	285957.35	292731.12	11686522.55
	8	Flush	FR Water (FightR EC-1)		0	0	0	88.88	3647.83	3704.57	11690170.38
	9	Flush	FR Water (FightR EC-1)		0	0	0	61.89	14634.17	14634.15	11704804.55
30	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.58	817.94	817.94	11705622.49
	3	Acid	15% HCl		0	0	0	10.52	997.29	997.29	11706619.78
	4	Pad	FR Water (FightR EC-1)		0	0	0	10.62	60.1	60.1	11706679.88
	5	Pad	Hybor G 25#		0	0	0	20.99	237.73	237.73	11706917.61
	6	Pad	FR Water (FightR EC-1)		0	0	0	38.42	25604.81	25604.81	11732522.42
	7	Pad	Hybor G 25#		0	0	0	85.58	12285.61	12285.61	11744808.03
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.41	31453.77	32688.2	11776261.8
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.52	25597.59	28007.83	11801859.39
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.01	266104.46	272167.73	12067963.85
	11	Flush	FR Water (FightR EC-1)		0	0	0	82.25	5053.56	5117.17	12073017.41
	12	Flush	FR Water (FightR EC-1)		0	0	0	66.64	14452.76	14452.77	12087470.17
	31	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.74	718.04	718.03
3		Acid	15% HCl		0	0	0	9.95	1005.86	1005.87	12089194.07

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)
31	4	Pad	FR Water (FightR EC-1)		0	0	0	38.89	22850.86	22850.87	12112044.93
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.21	38581.22	40563.66	12150626.15
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.08	12303.25	13711.26	12162929.4
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	81.62	295737.94	302934.03	12458667.34
	8	Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.89	2530.52	2545.59	12461197.86
	9	Flush	FR Water (FightR EC-1)		0	0	0	56.19	14174.54	14174.53	12475372.4
32	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.87	544.11	544.1	12475916.51
	3	Acid	15% HCl		0	0	0	9.86	1004.42	1004.41	12476920.93
	4	Pad	FR Water (FightR EC-1)		0	0	0	43.98	28782.13	28782.13	12505703.06
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	86.15	38621.8	40592.11	12544324.86
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.76	6708.18	7467.56	12551033.04
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.12	309019.06	316689.41	12860052.1
	8	Flush	FR Water (FightR EC-1)		0	0	0	85.27	3417.85	3438.57	12863469.95
	9	Flush	FR Water (FightR EC-1)		0	0	0	54.64	14008.87	14008.87	12877478.82
33	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.89	622.79	622.79	12878101.61
	3	Acid	15% HCl		0	0	0	12.11	985.97	986	12879087.58
	4	Pad	FR Water (FightR EC-1)		0	0	0	46.47	30632.78	30632.8	12909720.36
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	89.42	30502.63	31809.2	12940222.99
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	88.16	8723.2	9591.37	12948946.19
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	87.38	316109.92	323494.52	13265056.11
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	85.6	29761.52	30754.46	13294817.63
	9	Flush	FR Water (FightR EC-1)		0	0	0	85.16	5181.85	5237.26	13299999.48

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)
33	10	Flush	FR Water (FightR EC-1)		0	0	0	27.42	17080.39	17080.45	13317079.87
34	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.61	735.17	735.2	13317815.04
	3	Acid	15% HCl		0	0	0	14.92	985.22	985.19	13318800.26
	4	Pad	FR Water (FightR EC-1)		0	0	0	40.5	26184.41	26184.48	13344984.67
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	82.38	31151.86	32390.66	13376136.53
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.51	17416.07	19001.56	13393552.6
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	86.99	330252.81	338114.43	13723805.41
	8	Flush	FR Water (FightR EC-1)		0	0	0	85.3	4248.51	4277.93	13728053.92
	9	Flush	FR Water (FightR EC-1)		0	0	0	52.8	13679.32	13679.33	13741733.24
35	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.13	500.73	500.73	13742233.97
	3	Acid	15% HCl		0	0	0	10.09	998.47	998.5	13743232.44
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.19	10226.89	10227.03	13753459.33
	5	Pad	Hybor G 25#		0	0	0	82.19	17142.07	17142.12	13770601.4
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.82	38464.96	40324.01	13809066.36
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.2	13321.66	14832.18	13822388.02
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.1	315075.66	322615.73	14137463.68
	9	Pre-Flush	FR Water (FightR EC-1)		0	0	0	85.1	2870.1	2890.87	14140333.78
	10	Flush	FR Water (FightR EC-1)		0	0	0	58	13173.24	13173.25	14153507.02
	36	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.59	694.93	694.9
3		Acid	15% HCl		0	0	0	10.38	998.02	998.05	14155199.97
4		Pad	FR Water (FightR EC-1)		0	0	0	24.51	4317.03	4317.01	14159517
5		Pad	Hybor G 25#		0	0	0	30.26	320.44	320.44	14159837.44

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	6	Pad	FR Water (FightR EC-1)		0	0	0	18.54	314.92	314.92	14160152.36
	7	Pad	Hybor G 25#		0	0	0	15.27	1015.55	1015.57	14161167.91
	8	Pad	FR Water (FightR EC-1)		0	0	0	31.43	10427.97	10428.04	14171595.88
	9	Pad	Hybor G 25#		0	0	0	82.28	14071.93	14080.95	14185667.81
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.96	37445.87	39548.55	14223113.68
	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.8	3447.01	3830.12	14226560.69
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.02	346798.29	355408.27	14573358.98
	13	Pre-Flush	FR Water (FightR EC-1)		0	0	0	84.79	2627.21	2642.43	14575986.19
	14	Flush	FR Water (FightR EC-1)		0	0	0	29.07	16858.56	16858.49	14592844.75
37	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.34	799.83	799.83	14593644.58
	3	Acid	15% HCl		0	0	0	11.61	986.18	986.18	14594630.76
	4	Pad	FR Water (FightR EC-1)		0	0	0	41.84	23917.39	23917.39	14618548.15
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	83.82	38456.5	40667.49	14657004.65
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	83.83	6723.37	7532.8	14663728.02
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.08	325346.87	334764.95	14989074.89
	8	Pre-Flush	FR Water (FightR EC-1)		0	0	0	83.51	3113.31	3129.35	14992188.2
	9	Flush	FR Water (FightR EC-1)		0	0	0	55.22	12793.92	12793.93	15004982.12
	38	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.73	621.33	621.33
3		Acid	15% HCl		0	0	0	10.06	996.44	996.43	15006599.89
4		Pad	FR Water (FightR EC-1)		0	0	0	23.03	8762.69	8762.7	15015362.58
5		Pad	Hybor G 25#		0	0	0	83.02	48148.9	48148.89	15063511.48
6		PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.08	38746.98	40990.75	15102258.46

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	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.95	8870.71	9921.3	15111129.17
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.97	319682.33	327040.02	15430811.5
	9	Pre-Flush	FR Water (FightR EC-1)		0	0	0	84.96	2870.7	2882.26	15433682.2
	10	Flush	FR Water (FightR EC-1)		0	0	0	52.04	12638.2	12638.21	15446320.4
39	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.91	946.27	946.27	15447266.67
	3	Acid	15% HCl		0	0	0	10.37	996.95	996.95	15448263.62
	4	Pad	FR Water (FightR EC-1)		0	0	0	21.25	8909.66	8909.63	15457173.28
	5	Pad	Hybor G 25#		0	0	0	82.17	23008.66	23008.65	15480181.94
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.34	8395.58	8449.64	15488577.52
	7	Flush	Hybor G 25#		0	0	0	85.5	10962.32	11007.44	15499539.84
	8	Flush	FR Water (FightR EC-1)		0	0	0	6.71	8223.57	8223.55	15507763.41
	9	Pad	Hybor G 25#		0	0	0	78.11	18847.37	18847.39	15526610.78
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.73	38413.23	40214.17	15565024.01
	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.2	9698.5	10778.89	15574722.51
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.18	1015.85	1131.46	15575738.36
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.77	293743.44	301027.67	15869481.8
	14	Flush	FR Water (FightR EC-1)		0	0	0	84.45	6496.45	6565.68	15875978.25
15	Flush	FR Water (FightR EC-1)		0	0	0	56.7	12709.83	12709.89	15888688.08	
40	2	Breakdown	FR Water (FightR EC-1)		0	0	0	3.49	300.8	300.81	15888988.88
	3	Pad	Hybor G 25#		0	0	0	10.2	454.28	454.28	15889443.16
	4	Acid	15% HCl		0	0	0	10.63	1141.71	1141.7	15890584.87
	5	Pad	Hybor G 25#		0	0	0	22.2	15.7	15.7	15890600.57

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)
40	6	Pad	FR Water (FightR EC-1)		0	0	0	24.92	13319.83	13319.8	15903920.4
	7	Pad	Hybor G 25#		0	0	0	83.83	13396.48	13396.47	15917316.88
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.21	37846.61	40147.06	15955163.49
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.47	6349.53	7076	15961513.02
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.3	324836.8	332750.83	16286349.82
	11	Flush	FR Water (FightR EC-1)		0	0	0	84.99	6735.11	6794.2	16293084.93
	12	Flush	FR Water (FightR EC-1)		0	0	0	54.1	12309.72	12309.69	16305394.65
41	2	Breakdown	FR Water (FightR EC-1)		0	0	0	3.6	349.57	349.56	16305744.22
	3	Pad	Hybor G 25#		0	0	0	10.21	317.32	317.32	16306061.54
	4	Acid	15% HCl		0	0	0	10.3	1136.72	1136.7	16307198.26
	5	Pad	Hybor G 25#		0	0	0	20.1	241.74	241.74	16307440
	6	Pad	FR Water (FightR EC-1)		0	0	0	28.81	12806.32	12806.28	16320246.32
	7	Pad	Hybor G 25#		0	0	0	84.68	9927.44	9934	16330173.76
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.37	38105.13	40200.11	16368278.89
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.17	7042.65	7857.76	16375321.54
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.48	356304.51	364655.25	16731626.05
	11	Flush	FR Water (FightR EC-1)		0	0	0	84.52	4634.24	4661.74	16736260.29
	12	Flush	FR Water (FightR EC-1)		0	0	0	52.06	12126.17	12126.18	16748386.46
42	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.68	578.9	578.9	16748965.36
	3	Acid	15% HCl		0	0	0	10.44	996.98	996.98	16749962.34
	4	Pad	FR Water (FightR EC-1)		0	0	0	36.62	28980.63	28980.63	16778942.97
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.42	38226.87	40193.57	16817169.84

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)
42	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.02	13733.04	15328.93	16830902.88
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.68	178606.73	182945.33	17009509.61
	8	Spacer	FR Water (FightR EC-1)		0	0	0	58.44	11677.26	11724.31	17021186.87
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.9	112013.53	114632.92	17133200.4
	10	Flush	FR Water (FightR EC-1)		0	0	0	84.91	7311.41	7372.67	17140511.81
	11	Flush	FR Water (FightR EC-1)		0	0	0	54.33	11881.39	11881.35	17152393.2
43	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.37	856.75	856.74	17153249.95
	3	Acid	15% HCl		0	0	0	10.69	997.8	997.8	17154247.75
	4	Pad	FR Water (FightR EC-1)		0	0	0	36.47	35897.94	35897.95	17190145.69
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.98	38366.01	40423.49	17228511.7
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.82	15729.28	17554.26	17244240.98
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.9	279043.79	285688.37	17523284.77
	8	Flush	FR Water (FightR EC-1)		0	0	0	84.78	5768.85	5814.18	17529053.62
	9	Flush	FR Water (FightR EC-1)		0	0	0	34.1	12811.65	12811.64	17541865.27
44	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.01	644.88	644.88	17542510.15
	3	Acid	15% HCl		0	0	0	9.97	1134.89	1134.88	17543645.04
	4	Pad	FR Water (FightR EC-1)		0	0	0	46.32	29939.26	29939.26	17573584.3
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.86	38392.74	40398.71	17611977.04
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.71	12224.23	13656.08	17624201.27
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.02	311430.89	318882.16	17935632.16
	8	Flush	FR Water (FightR EC-1)		0	0	0	84.99	3761.41	3786.24	17939393.57
	9	Flush	FR Water (FightR EC-1)		0	0	0	25.22	13348.45	13348.49	17952742.02

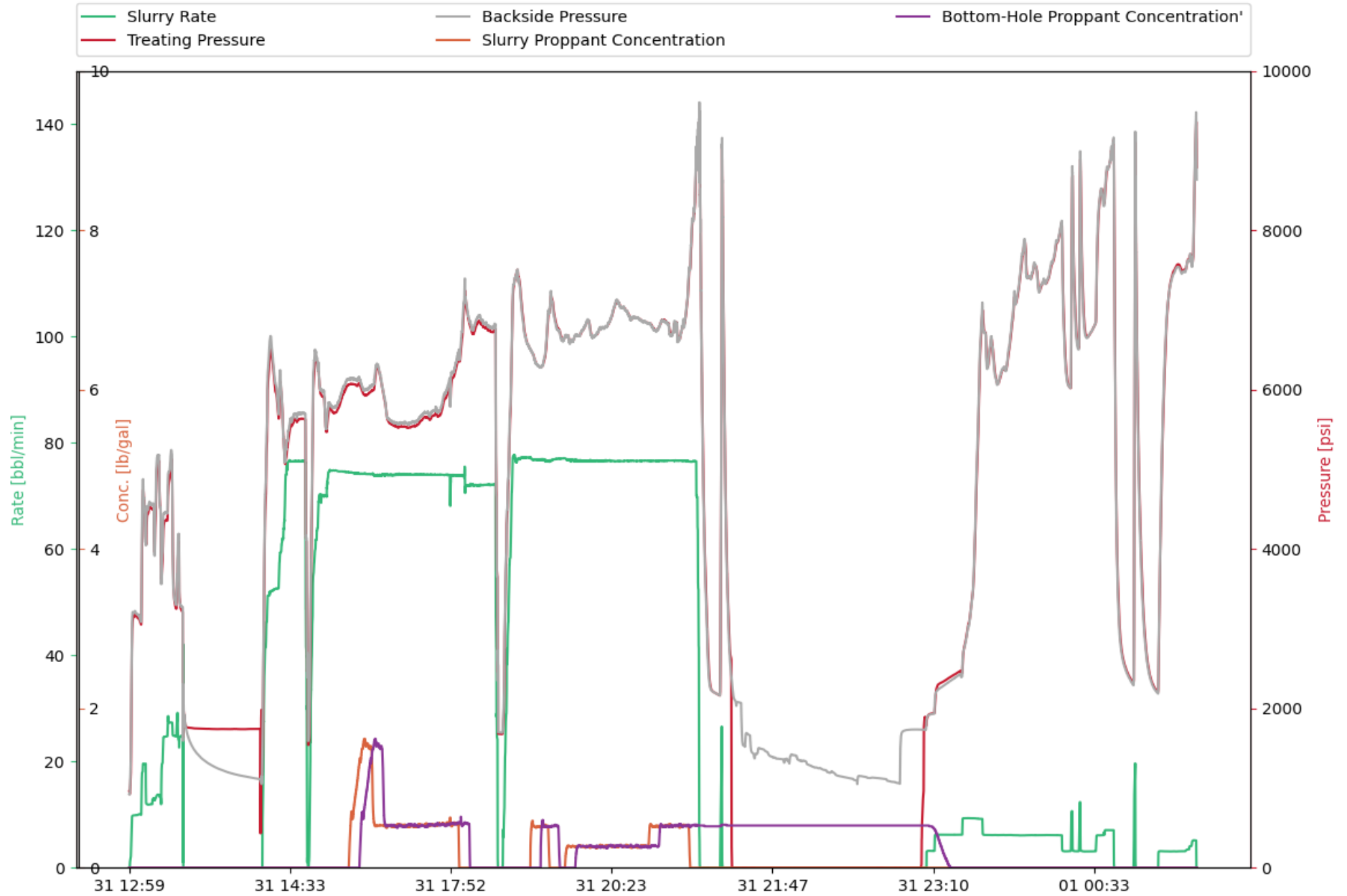
ACTUAL DESIGN

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)
45	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.57	649.92	649.89	17953391.94
	3	Acid	15% HCl		0	0	0	11.09	1121.15	1121.17	17954513.09
	4	Pad	FR Water (FightR EC-1)		0	0	0	43.85	20597.97	20598.02	17975111.06
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	83.77	20511.58	21033.2	17995622.64
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	82.79	9733.32	10296.42	18005355.96
	7	Spacer	FR Water (FightR EC-1)		0	0	0	51.08	53989.92	54178.49	18059345.88
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.17	39328.74	41269.61	18098674.62
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.23	314053.96	321537.51	18412728.58
	10	Flush	FR Water (FightR EC-1)		0	0	0	85	3281.46	3307.69	18416010.04
	11	Flush	FR Water (FightR EC-1)		0	0	0	28.83	12809.63	12809.54	18428819.67
46	2	Shut-In	FR Water (FightR EC-1)		0	0	0	0	0	0	18428819.67
	3	Pad	FR Water (FightR EC-1)		0	0	0	9.51	705.61	705.62	18429525.28
	4	Acid	15% HCl		0	0	0	12.12	1123.87	1123.86	18430649.15
	5	Pad	FR Water (FightR EC-1)		0	0	0	48.16	26903.21	26904.4	18457552.36
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.91	36317.76	38777.56	18493870.12
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.77	7329.21	8184.26	18501199.33
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.81	317073.65	324581.83	18818272.98
	9	Flush	FR Water (FightR EC-1)		0	0	0	84.16	3246.7	3272.77	18821519.68
	10	Flush	FR Water (FightR EC-1)		0	0	0	48.11	11150.12	11150.11	18832669.8
	47	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.68	648.55	648.56
3		Acid	15% HCl		0	0	0	9.16	1140.45	1140.45	18834458.8
4		Pad	FR Water (FightR EC-1)		0	0	0	34.48	30981.64	30981.74	18865440.44

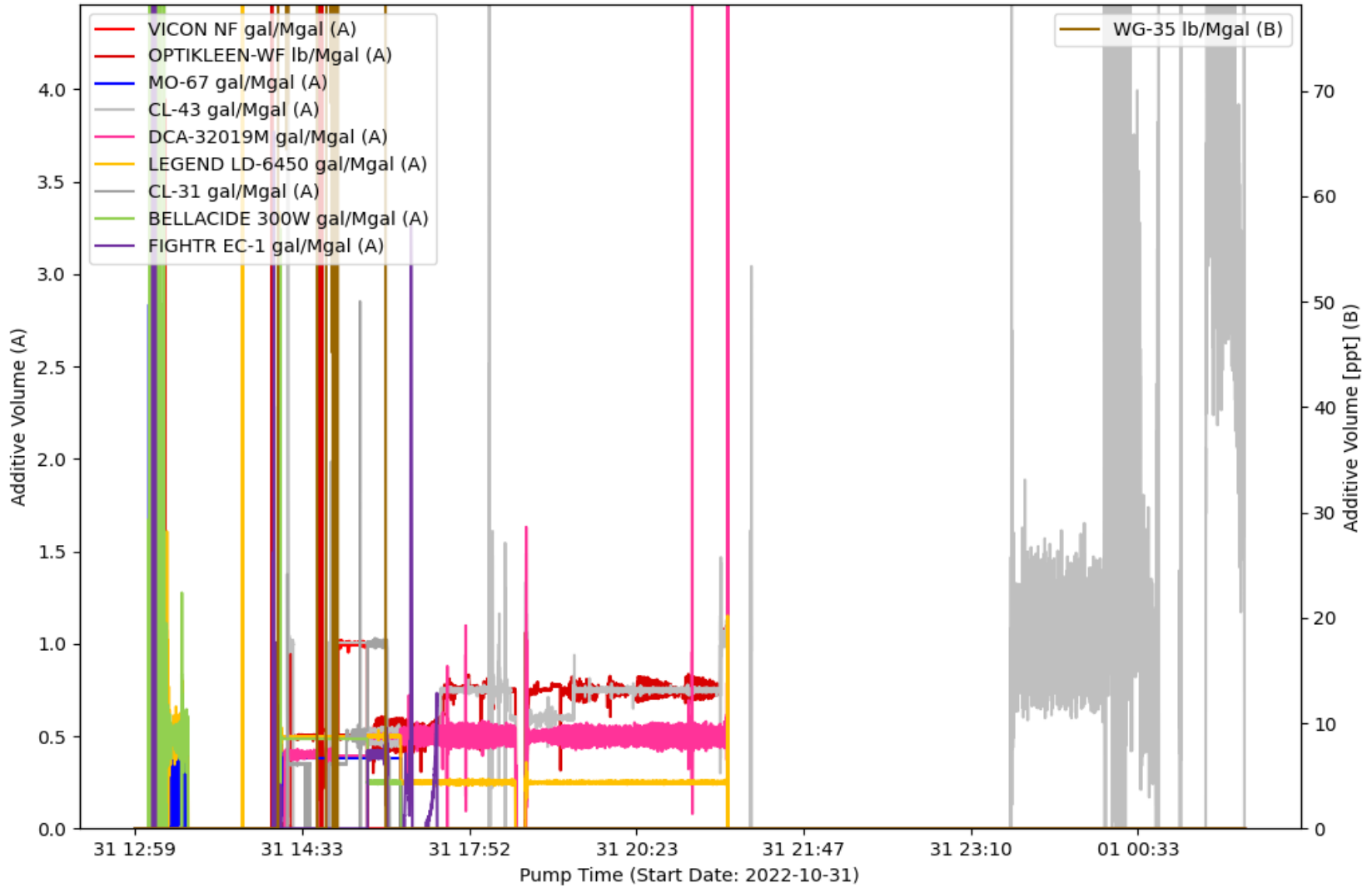
ACTUAL DESIGN

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)
47	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.51	38050.79	40287.46	18903491.23
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	85.41	5803.41	6526	18909294.64
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.7	69433.65	71345.4	18978728.29
	8	Spacer	FR Water (FightR EC-1)		0	0	0	68.85	3353.66	3359.02	18982081.95
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.54	236063.02	241418.38	19218144.97
	10	Flush	FR Water (FightR EC-1)		0	0	0	83.57	4573.2	4727.72	19222718.17
	11	Flush	FR Water (FightR EC-1)		0	0	0	18.36	13224.34	13224.27	19235942.51
Total									19235942.51	19693445.28	

TREATMENT PLOT : Treatment Interval 1



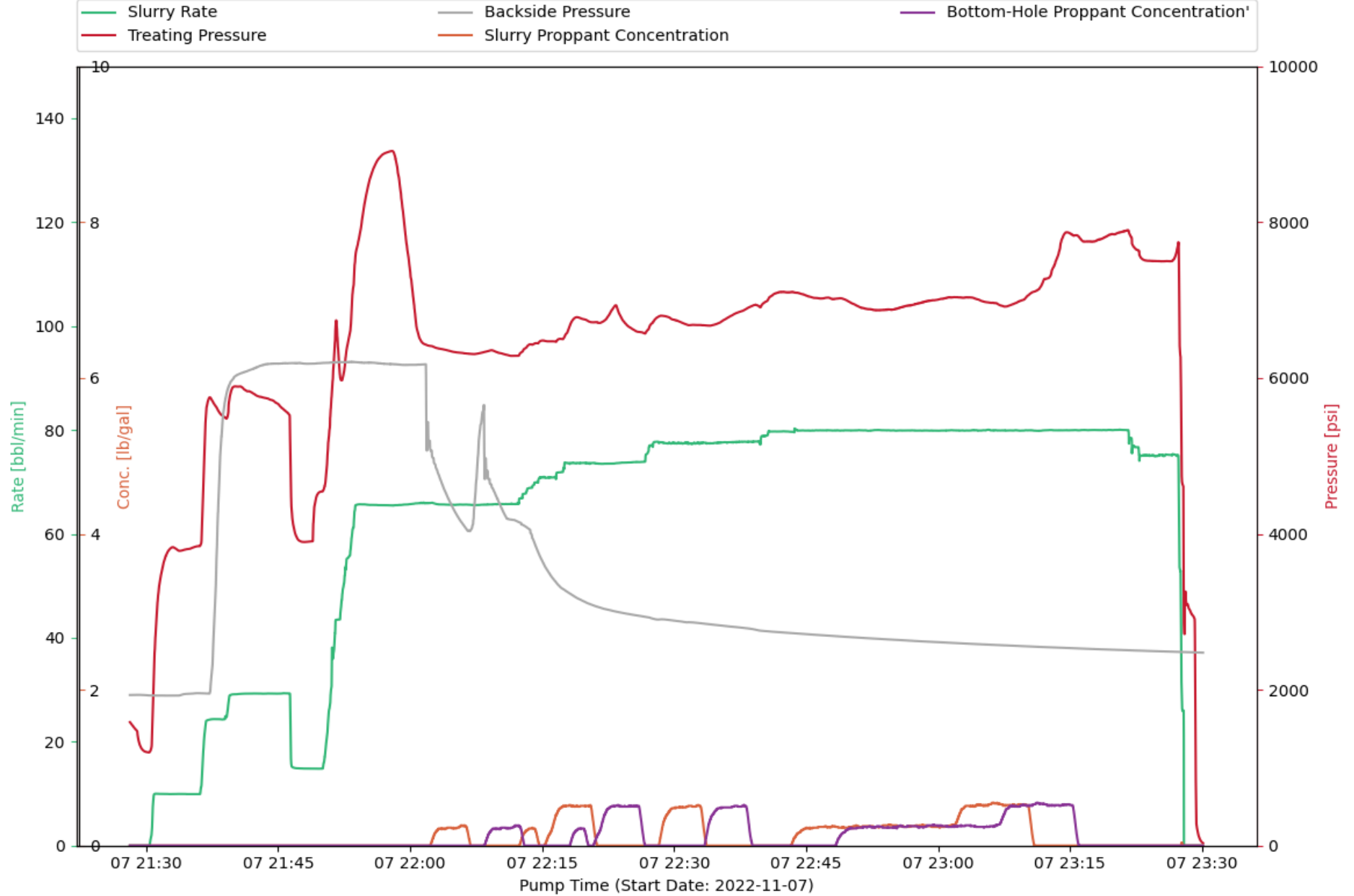
CHEMISTRY PLOT : Treatment Interval 1



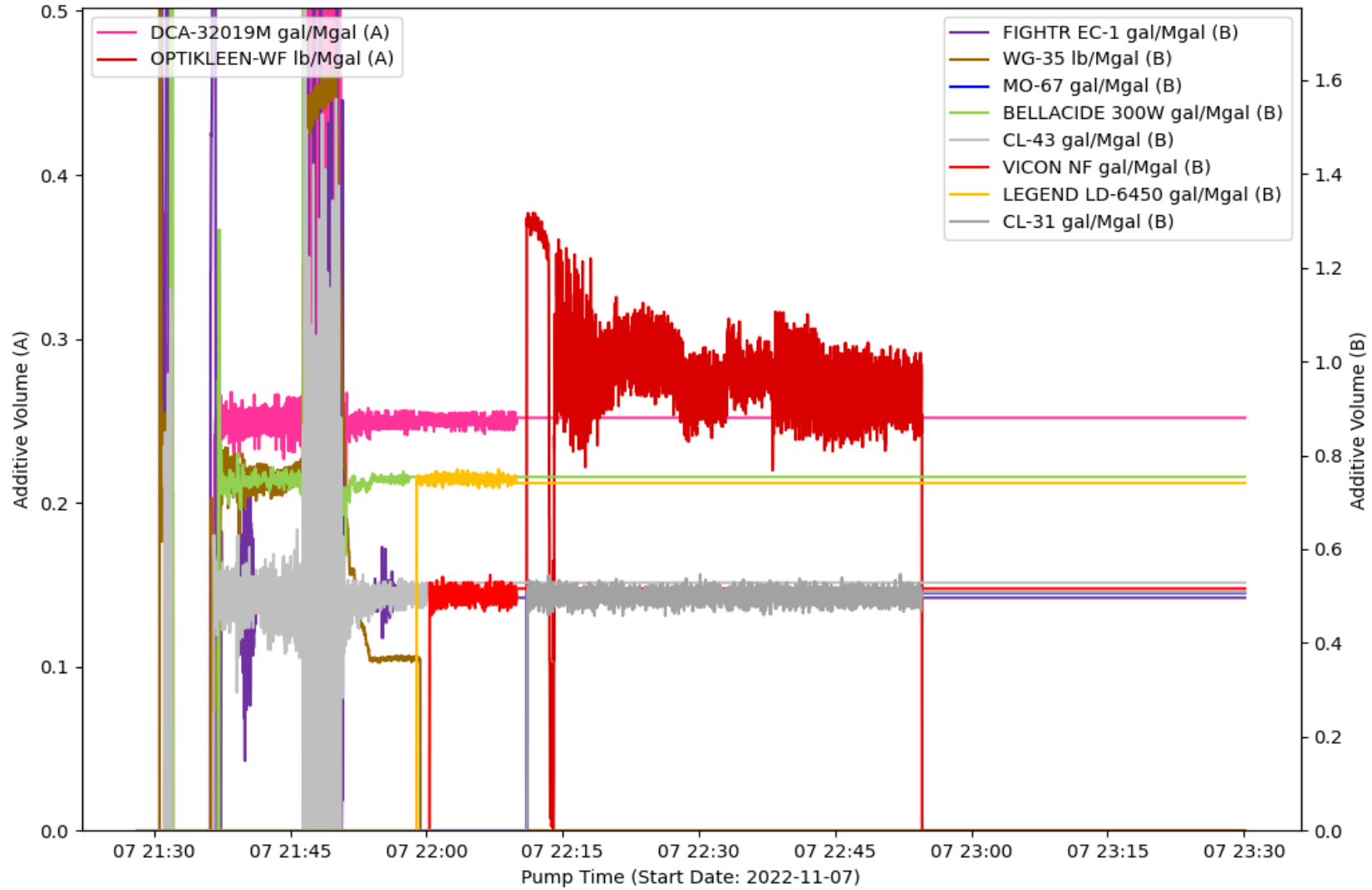
EVENT LOG : TREATMENT INTERVAL 1

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	2022-10-31T12:59:00	0	960.73	0	0	0	0	0
2	Start Pumping	2022-10-31T12:59:14	0.01	926.44	0	0	0.07	0.07	0
3	Start Avg Trt 1	2022-10-31T13:02:56	9.91	3147	0	0	1243	1243	0
4	Pump Acid	2022-10-31T13:03:08	9.91	3143	0	0	1327	1327	0
5	Stop Pumping	2022-10-31T13:26:57	42.07	2066	0	0	20167	20167	0
6	Shut In Well	2022-10-31T14:07:00	0	1742	0	0	20167	20167	0
7	Open Well	2022-10-31T14:18:43	0	1097	0	0	20167	20167	0
8	Start Pumping	2022-10-31T14:18:56	0	1212	0	0	20167	20167	0
9	Stop Pumping	2022-10-31T14:42:36	0	2491	0	0	80543	80543	0
10	Start Pumping	2022-10-31T16:38:16	0	1550	0	0	95663	95663	0
11	Pump Xlink Pill	2022-10-31T16:45:59	70.05	5912	0	0	113151	113151	0
12	Stop Pumping	2022-10-31T18:16:29	0	2544	0	0	385242	390494	115720
13	Start Pumping	2022-10-31T19:25:03	0	1680	0	0	385242	390494	115720
14	Stop Pumping	2022-10-31T21:22:41	0	4997	0	0.54	700995	710196	202754
15	Start Pumping	2022-10-31T23:06:56	0	1820	0	0.53	700995	710196	202754
16	Stop Pumping	2022-11-01T01:27:04	0	8802	0	0	728580	737782	202754

TREATMENT PLOT : Treatment Interval 2



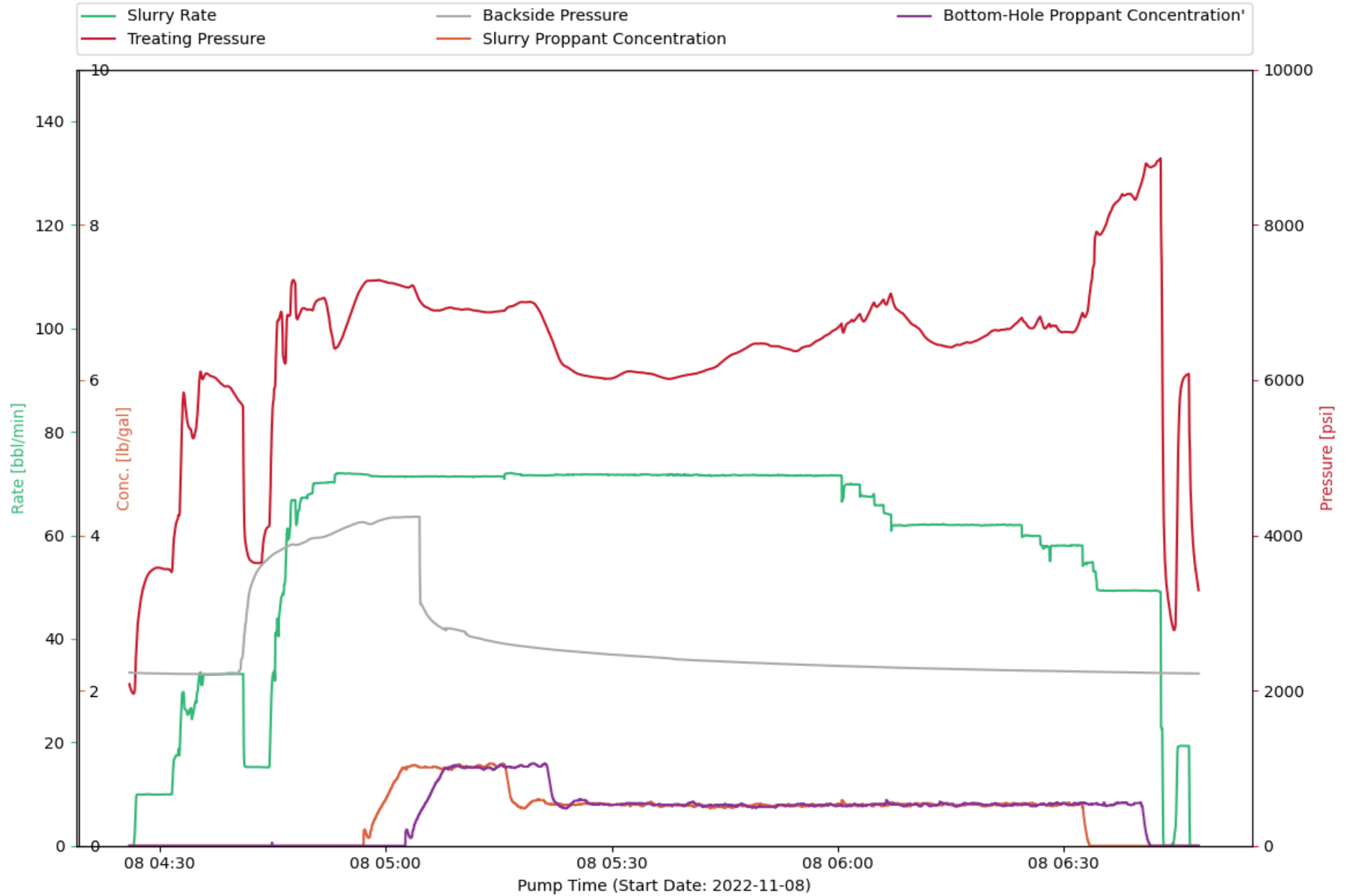
CHEMISTRY PLOT : Treatment Interval 2



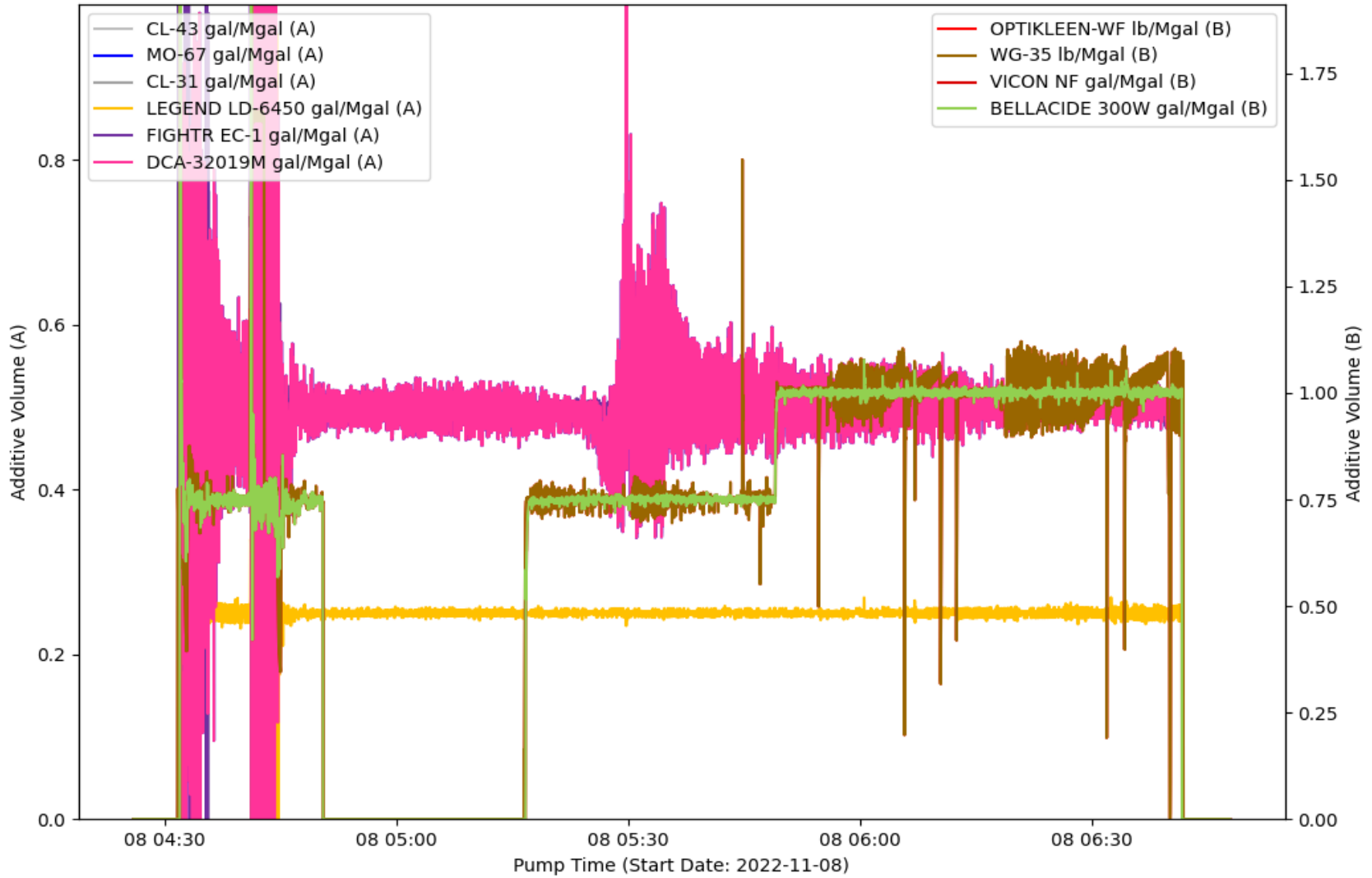
EVENT LOG : TREATMENT INTERVAL 2

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	2022-11-07T21:29:10	0	1339	0	0	0	0	0
2	Start Pumping	2022-11-07T21:30:23	0	1197	0	0	0	0	0
3	Pump Acid	2022-11-07T21:32:38	9.91	3797	0	0	815.2	815.2	0
4	Ball on Seat	2022-11-07T21:48:55	14.84	3904	0	0	15599	15599	0
5	Break Formation	2022-11-07T21:49:50	14.8	4542	0	0	16174	16174	0
6	Stop Pumping	2022-11-07T23:27:56	21.07	3124	0	0	317746	319870	46823
7	ISIP	2022-11-07T23:28:02	0	3045	0	0	317746	319870	46823
8	Shut In Well	2022-11-07T23:29:07	0	2921	0	0	317746	319870	46823

TREATMENT PLOT : Treatment Interval 3



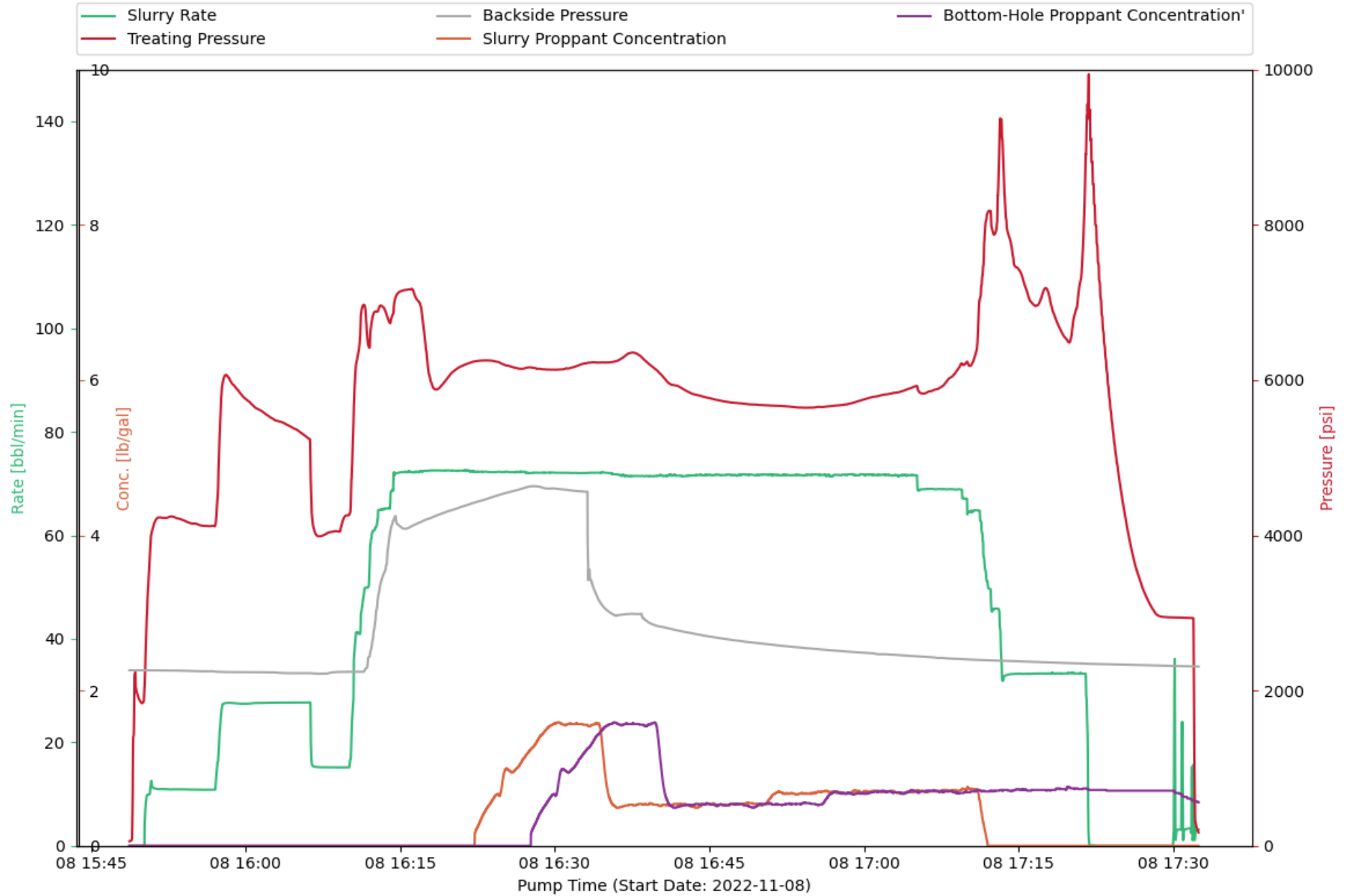
CHEMISTRY PLOT : Treatment Interval 3



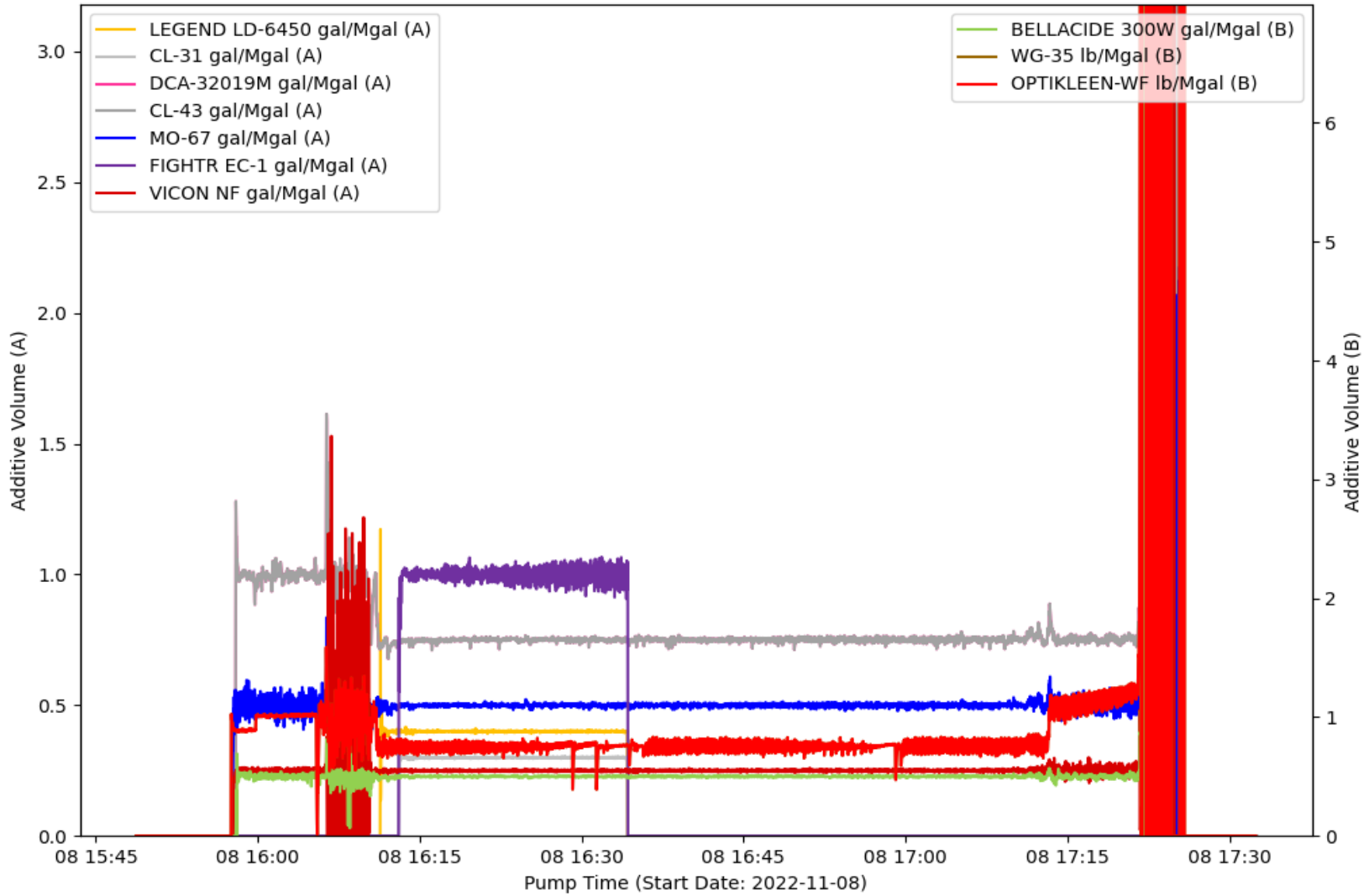
EVENT LOG : TREATMENT INTERVAL 3

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	2022-11-08T04:26:20	0.01	1981	0	0	0	0	0
2	Start Avg Trt 3	2022-11-08T04:26:27	0	1965	0	0	0	0	0
3	Start Pumping	2022-11-08T04:26:33	0.01	1960	0	0	0.06	0.06	0
4	Pump Acid	2022-11-08T04:28:45	9.95	3530	0	0	831.64	831.65	0
5	Ball on Seat	2022-11-08T04:43:31	15.22	3645	0	0	15378	15378	0
6	Break Formation	2022-11-08T04:44:07	15.17	4072	0	0	15765	15765	0
7	Pump Xlink Pill	2022-11-08T04:47:38	66.77	7279	0	0	22008	22008	0
8	Stop Pumping	2022-11-08T06:43:03	22.58	6878	0	0	338786	346122	161630
9	ISIP	2022-11-08T06:43:27	0	3659	0	0	338871	346207	161630
10	Shut In Well	2022-11-08T06:47:53	0	3304	0	0	340287	347622	161630

TREATMENT PLOT : Treatment Interval 4



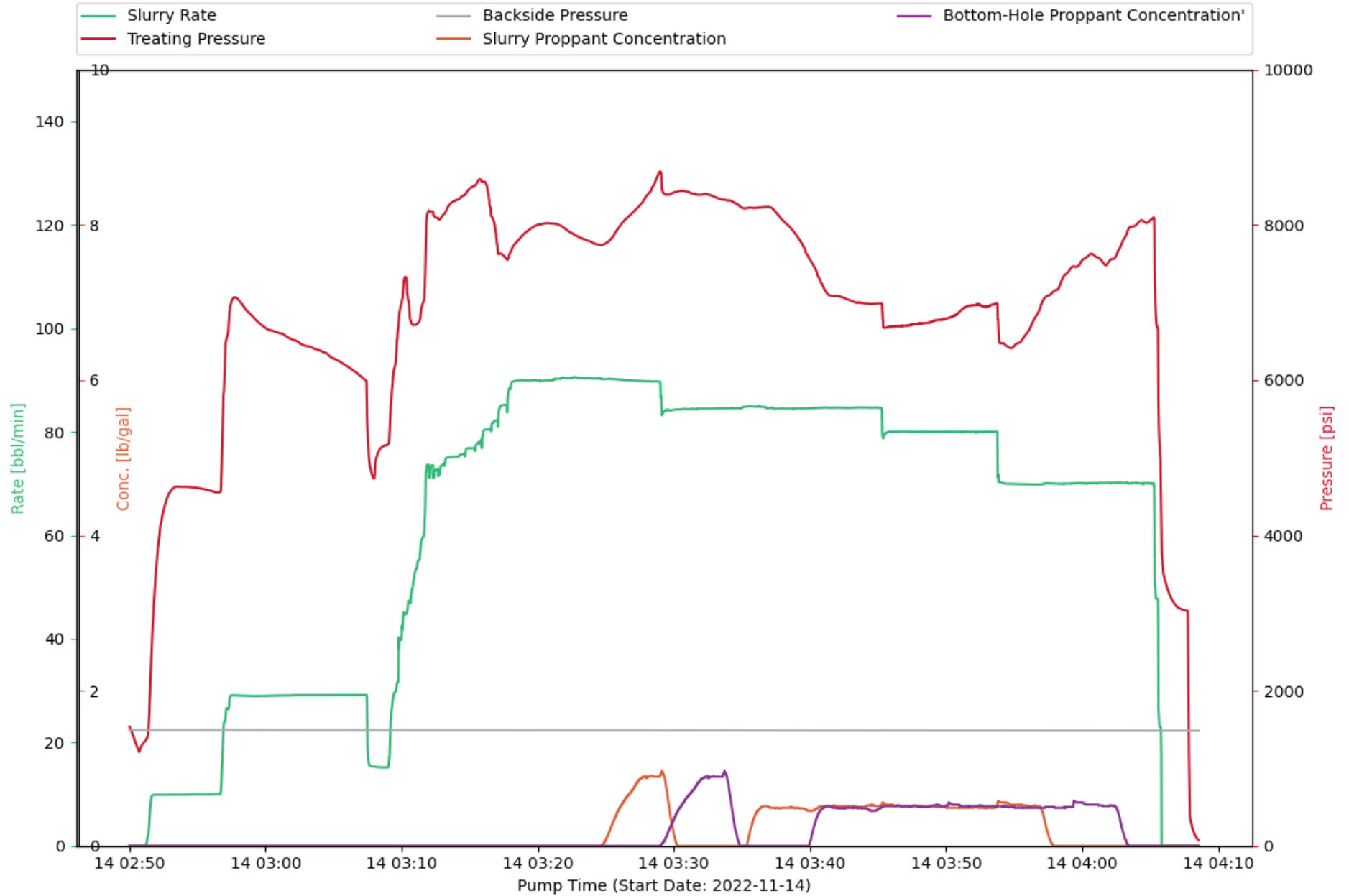
CHEMISTRY PLOT : Treatment Interval 4



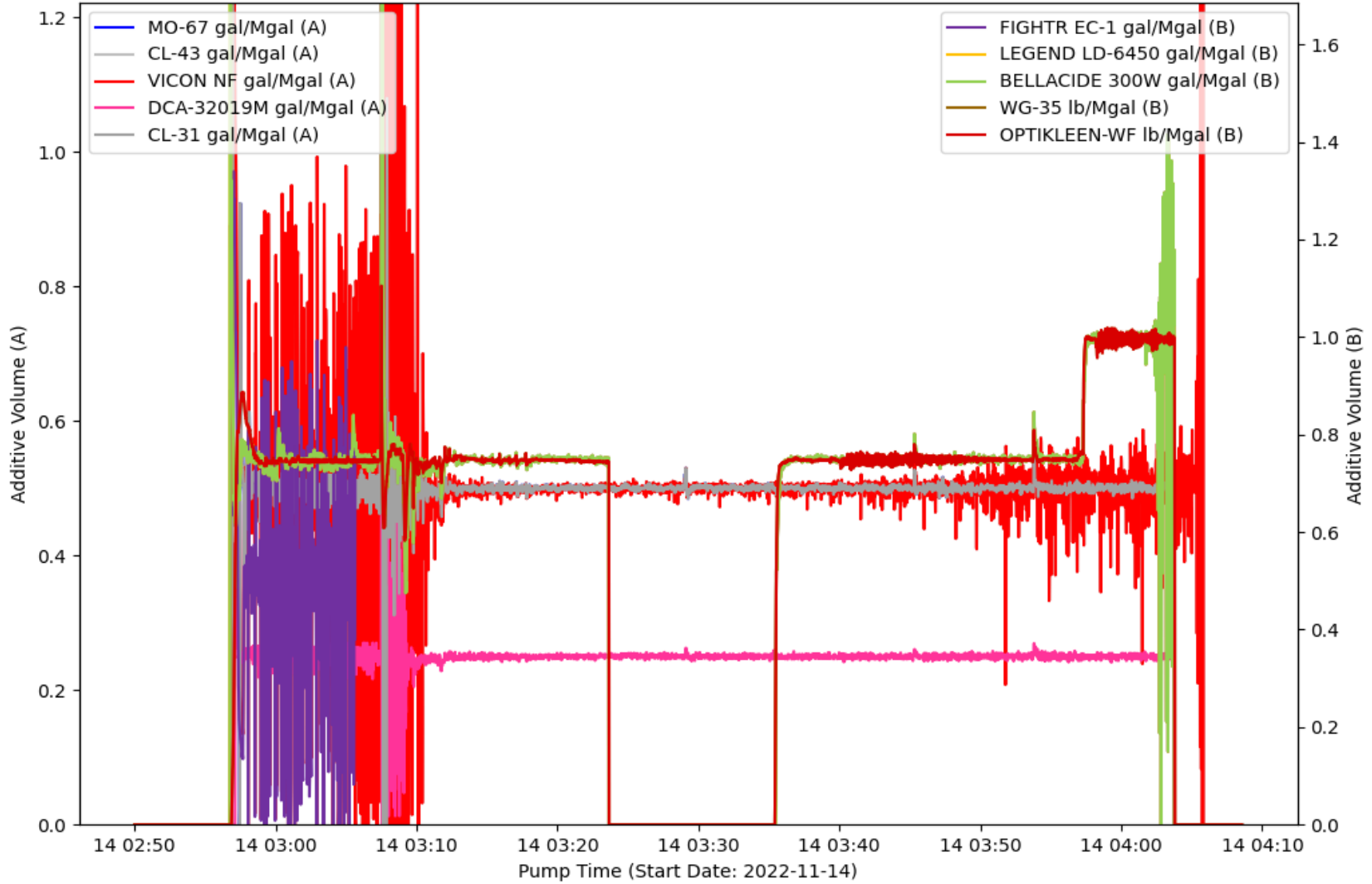
EVENT LOG : TREATMENT INTERVAL 4

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	2022-11-08T15:49:44	0	1871	0	0	0	0	0
2	Start Pumping	2022-11-08T15:50:12	4.1	2054	0	0	2.91	2.91	0
3	Pump Acid	2022-11-08T15:53:45	10.92	4204	0	0	1600	1600	0
4	Ball on Seat	2022-11-08T16:09:09	15.13	4048	0	0	15432	15432	0
5	Break Formation	2022-11-08T16:09:57	15.15	4257	0	0	15934	15934	0
6	Pump Xlink Pill	2022-11-08T16:16:06	72.19	7176	0	0	30874	30874	0
7	Stop Pumping	2022-11-08T17:21:55	0	9485	0	0.72	207364	212321	109210
8	ISIP	2022-11-08T17:28:27	0	2972	0	0.71	207366	212322	109210
9	Shut In Well	2022-11-08T17:31:27	3.32	2937	0	0.61	207743	212699	109210

TREATMENT PLOT : Treatment Interval 5



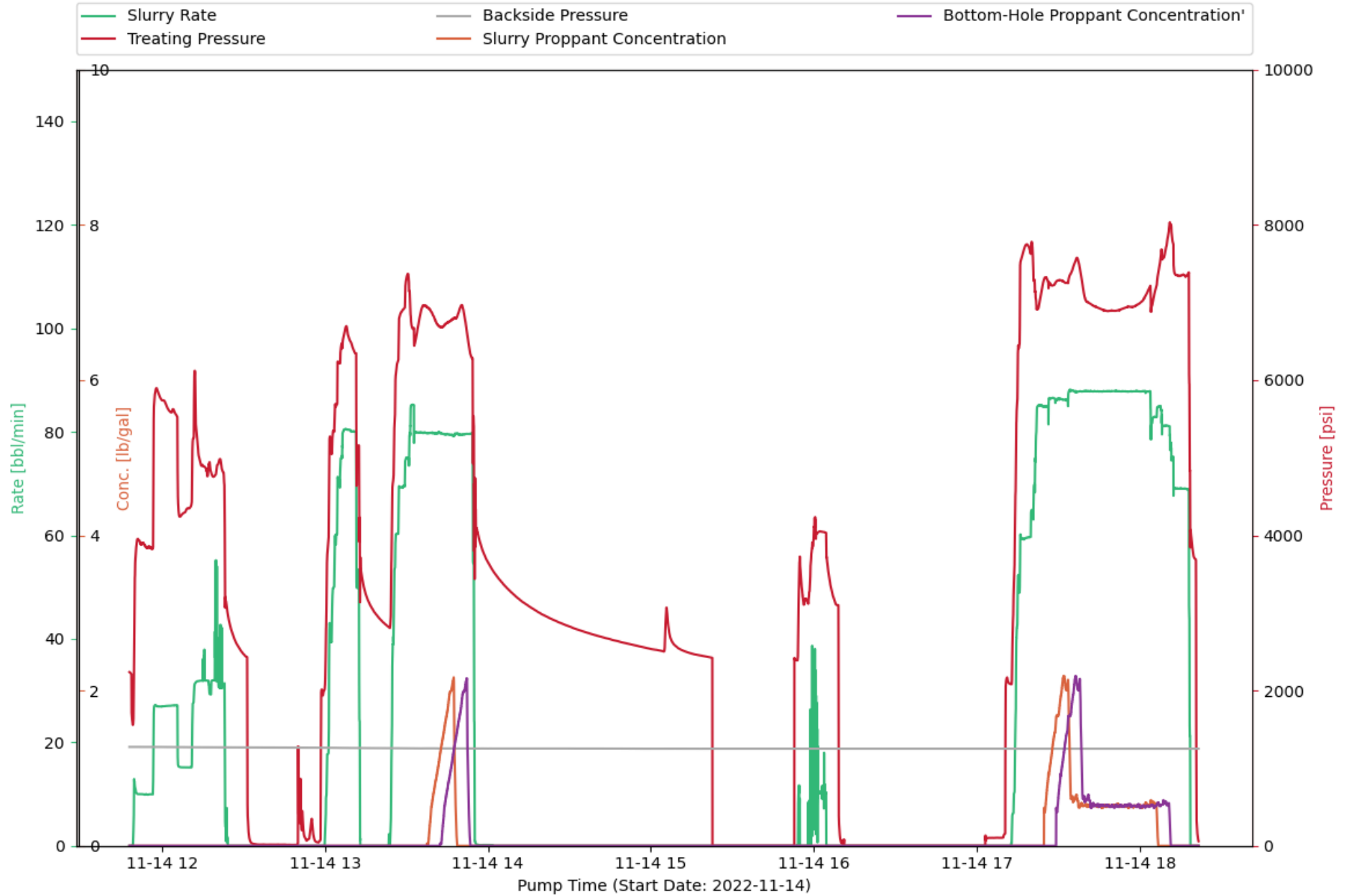
CHEMISTRY PLOT : Treatment Interval 5



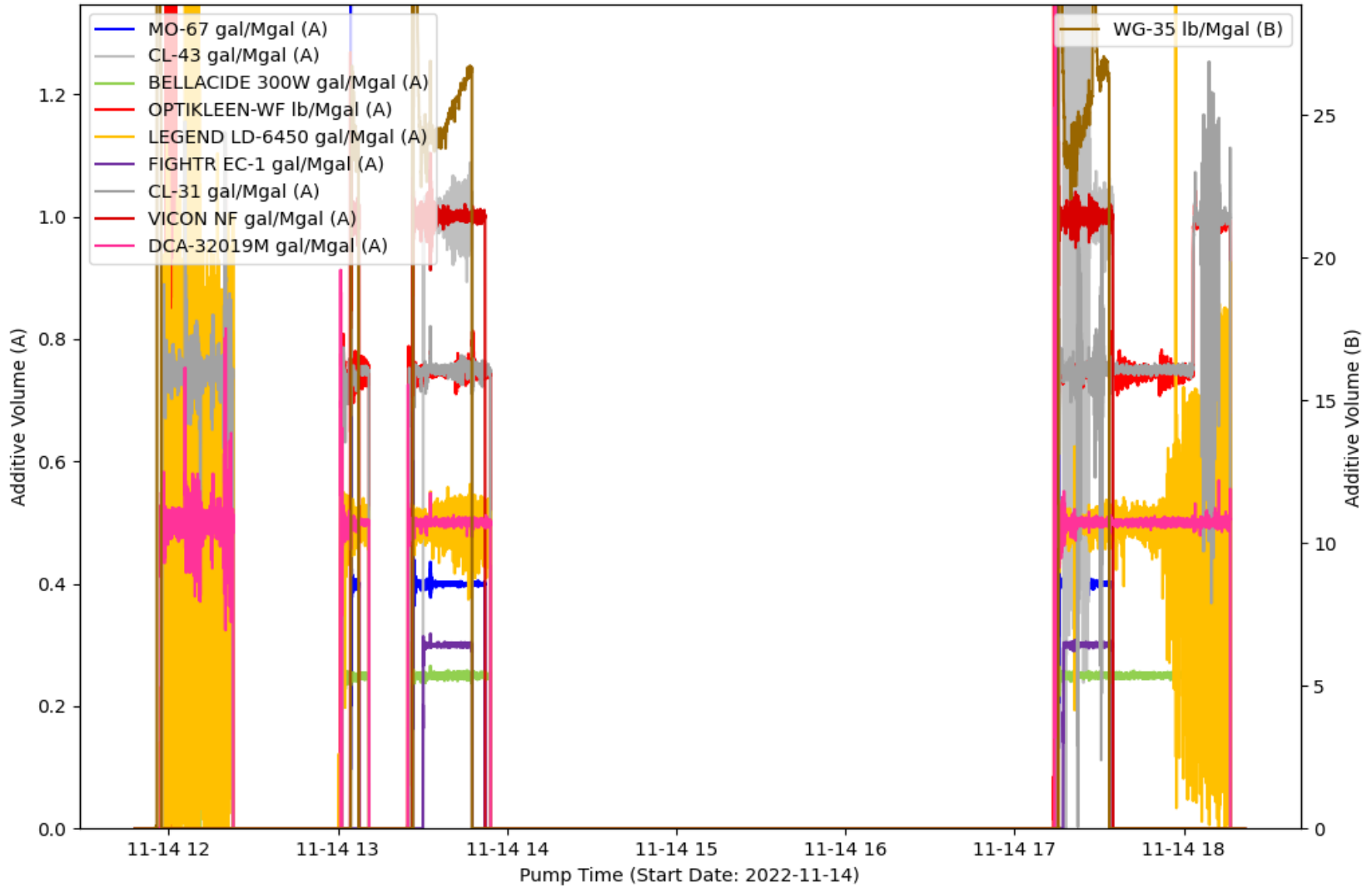
EVENT LOG : TREATMENT INTERVAL 5

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	2022-11-14T02:51:00	0	1320	0	0	0	0	0
2	Start Pumping	2022-11-14T02:51:12	0	1360	0	0	0	0	0
3	Pump Acid	2022-11-14T02:53:40	9.85	4627	0	0	919.66	919.68	0
4	Ball on Seat	2022-11-14T03:07:59	15.3	4735	0	0	15502	15502	0
5	Break Formation	2022-11-14T03:08:54	15.15	5162	0	0	16082	16082	0
6	Pump Xlink Pill	2022-11-14T03:20:39	89.95	8024	0	0	51586	51586	0
7	Stop Pumping	2022-11-14T04:05:49	17.14	4133	0	0	202130	204302	47870
8	ISIP	2022-11-14T04:06:01	0	3471	0	0	202130	204302	47870
9	Shut In Well	2022-11-14T04:07:33	0	3035	0	0	202130	204302	47870

TREATMENT PLOT : Treatment Interval 6



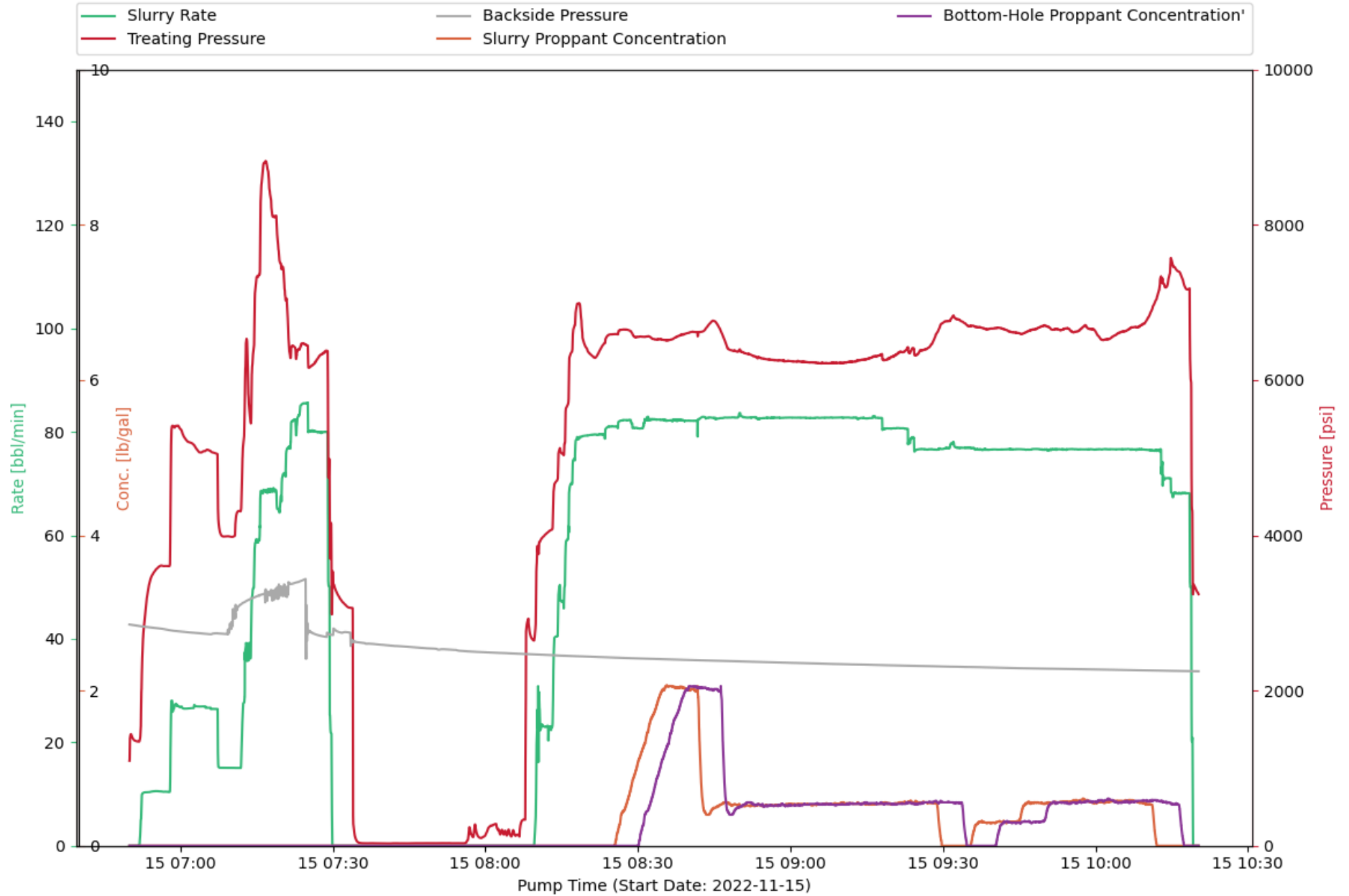
CHEMISTRY PLOT : Treatment Interval 6



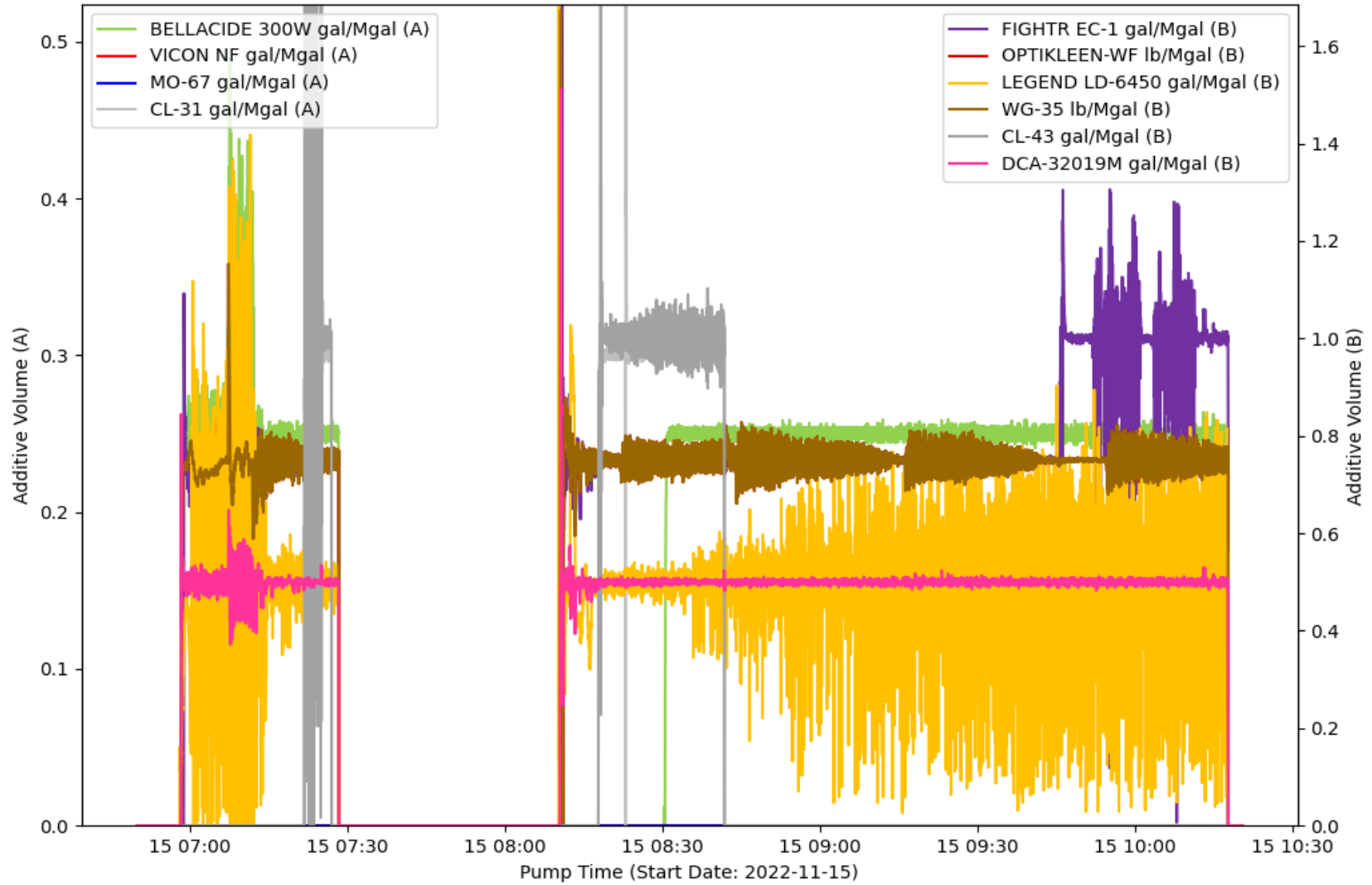
EVENT LOG : TREATMENT INTERVAL 6

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	Start Avg Trt 6	2022-11-14T11:48:42	0	2215	0	0	0	0	0
2	Open Well	2022-11-14T11:49:03	0	1614	0	0	0	0	0
3	Start Pumping	2022-11-14T11:49:18	0.02	1556	0	0	0.11	0.11	0
4	Pump Acid	2022-11-14T11:52:17	9.98	3886	0	0	1181	1181	0
5	Ball on Seat	2022-11-14T12:09:45	15.16	4349	0	0	15758	15758	0
6	Break Formation	2022-11-14T12:10:43	15.16	4380	0	0	16369	16369	0
7	Stop Pumping	2022-11-14T13:13:12	0	3563	0	0	65654	65654	0
8	Start Pumping	2022-11-14T13:23:19	0	2823	0	0	65654	65654	0
9	Pump Xlink Pill	2022-11-14T13:32:39	85.19	6664	0	0	88672	88672	0
10	Stop Sand	2022-11-14T13:49:39	79.38	6917	0	1.68	143872	145650	39168
11	Stop Pumping	2022-11-14T13:55:33	0.45	4328	0	0	161090	162867	39168
12	Suspending Job	2022-11-14T15:22:39	0	2422	0	0	161131	162909	39168
13	Resuming Job	2022-11-14T15:52:49	0	0	0	0	161131	162909	39168
14	Suspending Job	2022-11-14T16:11:11	0	0	0	0	164078	165856	39168
15	Resuming Job	2022-11-14T17:03:09	0	0	0	0	164078	165856	39168
16	Open Well	2022-11-14T17:11:44	0	2101	0	0	164078	165856	39168
17	Start Pumping	2022-11-14T17:12:38	0	2083	0	0	164078	165856	39168
18	Stop Pumping	2022-11-14T18:18:42	0	3912	0	0	378759	385473	147921
19	ISIP	2022-11-14T18:18:44	0	4060	0	0	378759	385473	147921
20	Shut In Well	2022-11-14T18:20:41	0	3682	0	0	378759	385473	147921

TREATMENT PLOT : Treatment Interval 7



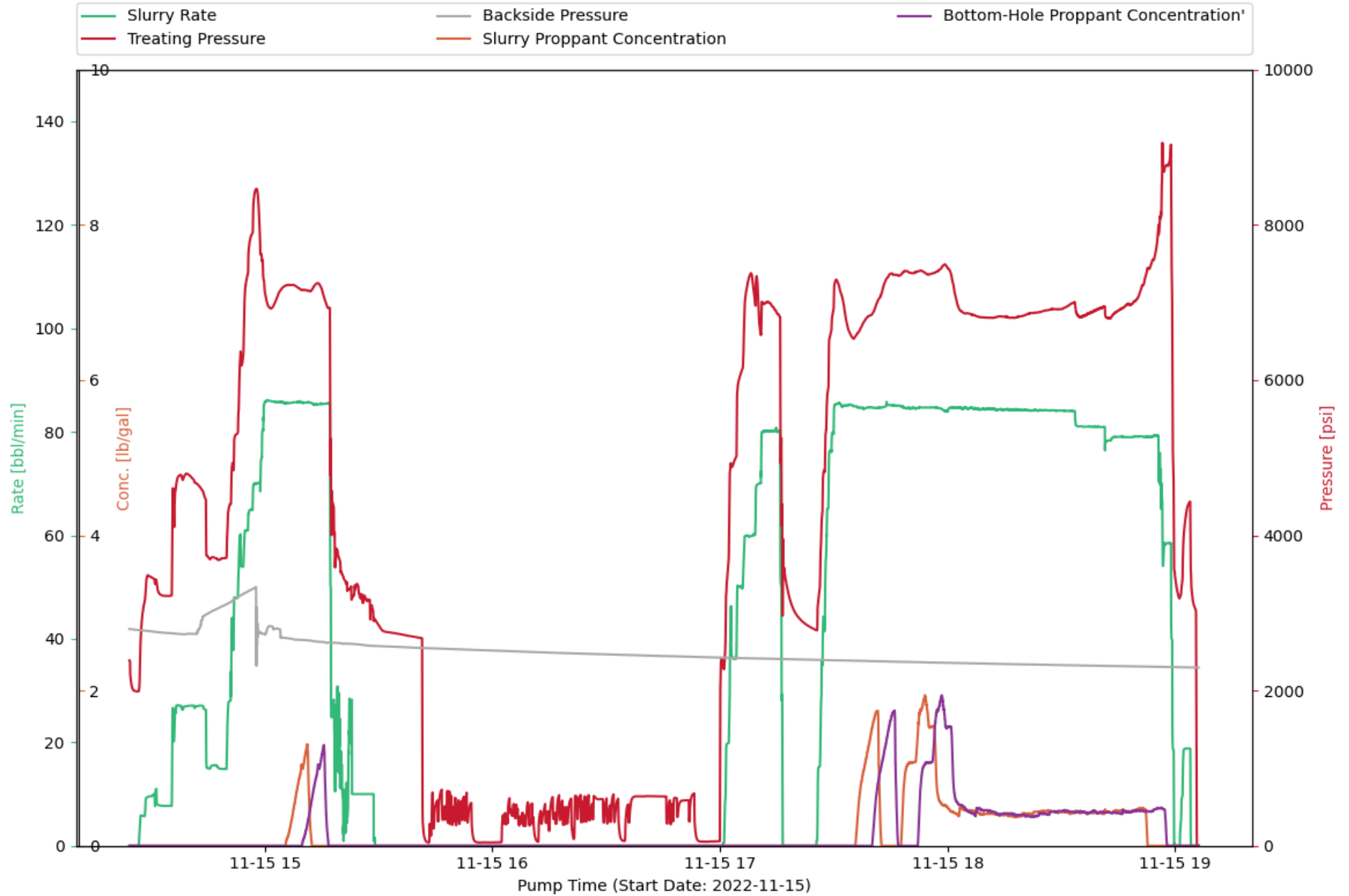
CHEMISTRY PLOT : Treatment Interval 7



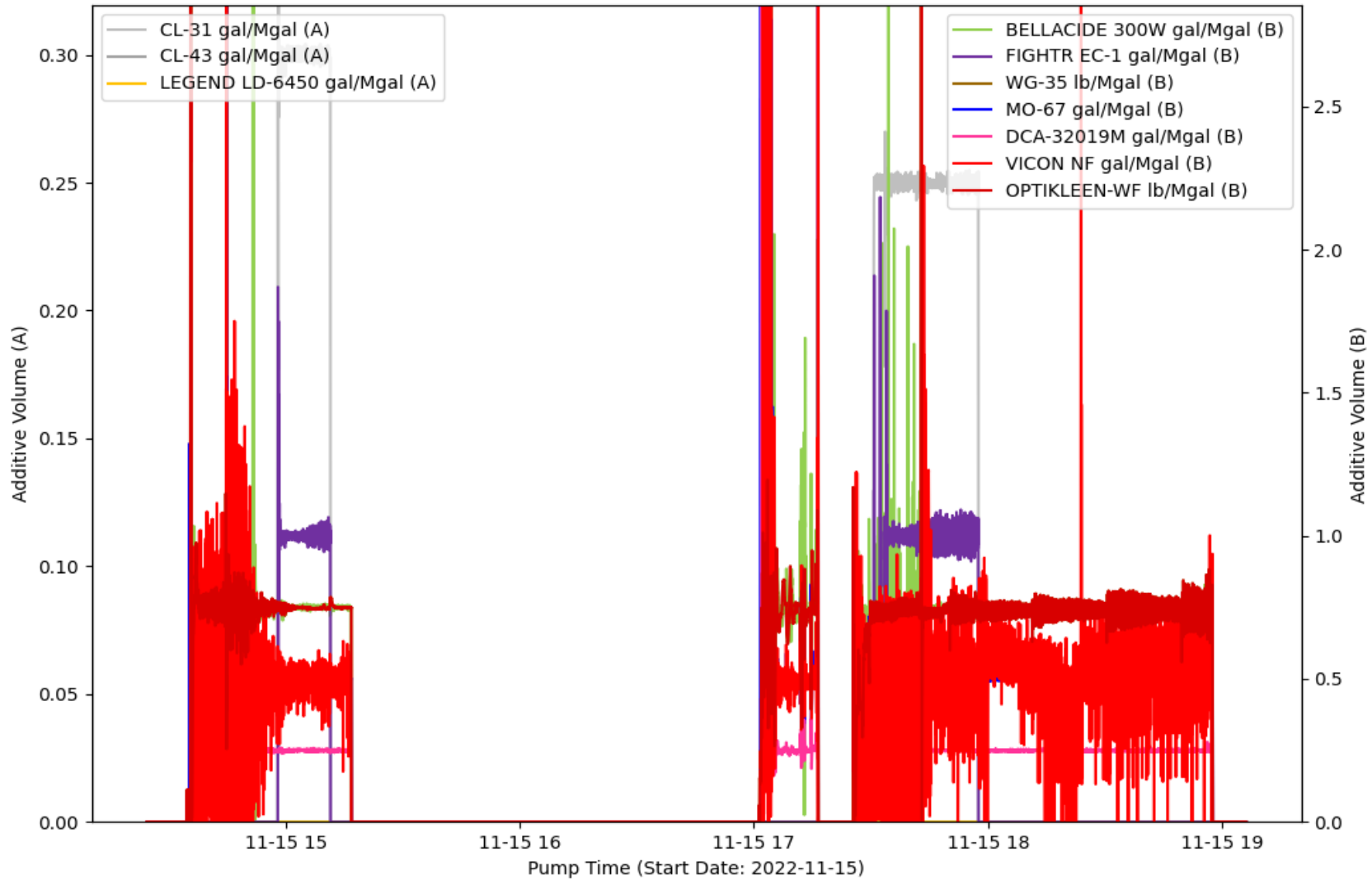
EVENT LOG : TREATMENT INTERVAL 7

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	2022-11-15T06:50:50	0	1366	0	0	0	0	0
2	Start Pumping	2022-11-15T06:52:34	10.12	2506	0	0	147.04	147.04	0
3	Pump Acid	2022-11-15T06:55:10	10.57	3556	0	0	1281	1281	0
4	Ball on Seat	2022-11-15T07:10:38	15.08	3991	0	0	15077	15077	0
5	Break Formation	2022-11-15T07:11:45	15.06	4308	0	0	15791	15791	0
6	Pump Xlink Pill	2022-11-15T07:24:56	85.55	6447	0	0	51666	51666	0
7	Stop Pumping	2022-11-15T07:30:24	0	3321	0	0	66632	66632	0
8	Start Pumping	2022-11-15T08:09:28	0	2647	0	0	66632	66632	0
9	Pump Xlink Pill	2022-11-15T08:19:26	79.2	6472	0	0	85842	85842	0
10	Stop Pumping	2022-11-15T10:19:11	4.22	3248	0	0	473186	483143	219387
11	ISIP	2022-11-15T10:19:17	0	3364	0	0	473186	483143	219387
12	Shut In Well	2022-11-15T10:20:16	0	3244	0	0	473186	483143	219387

TREATMENT PLOT : Treatment Interval 8



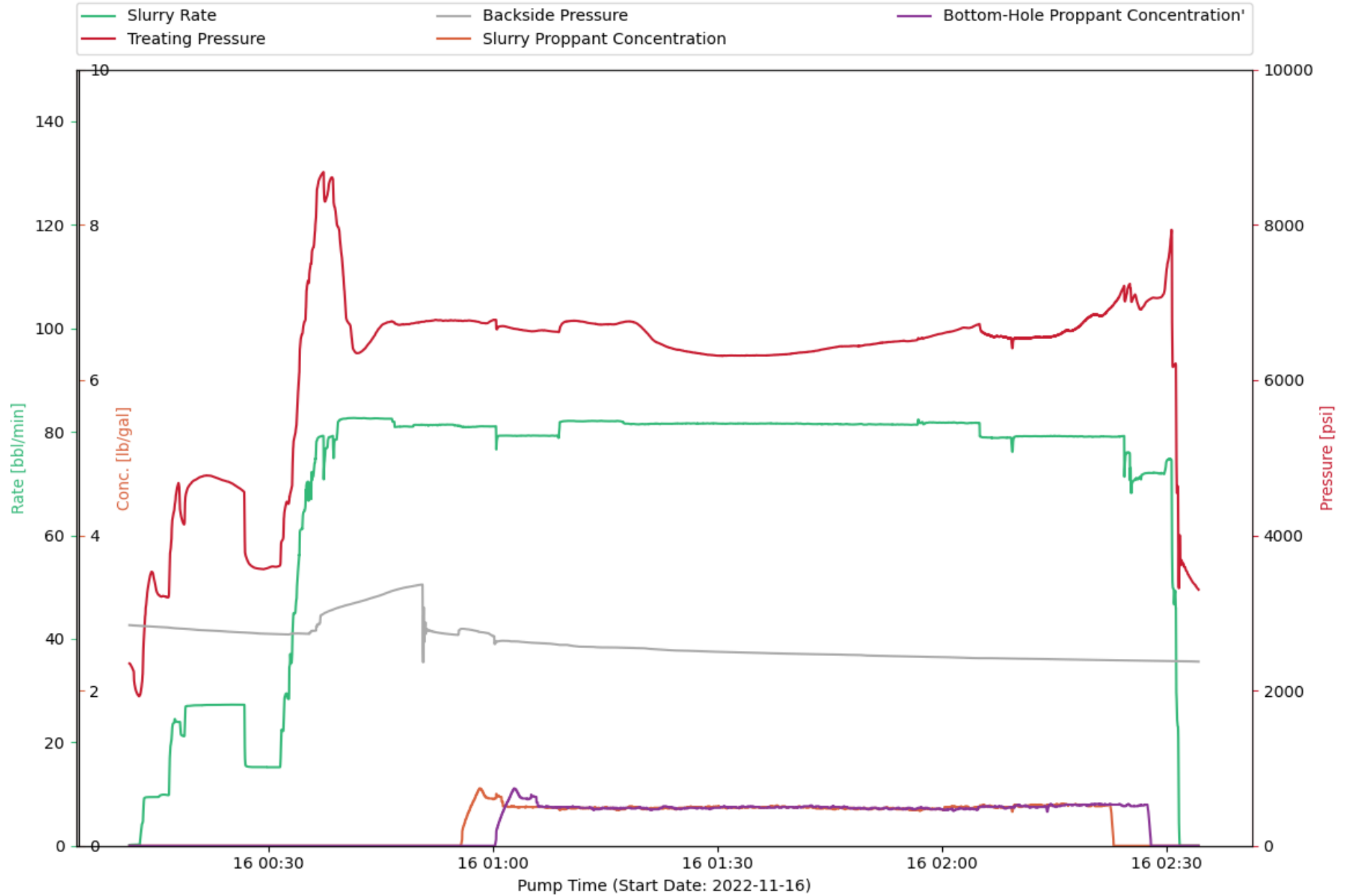
CHEMISTRY PLOT : Treatment Interval 8



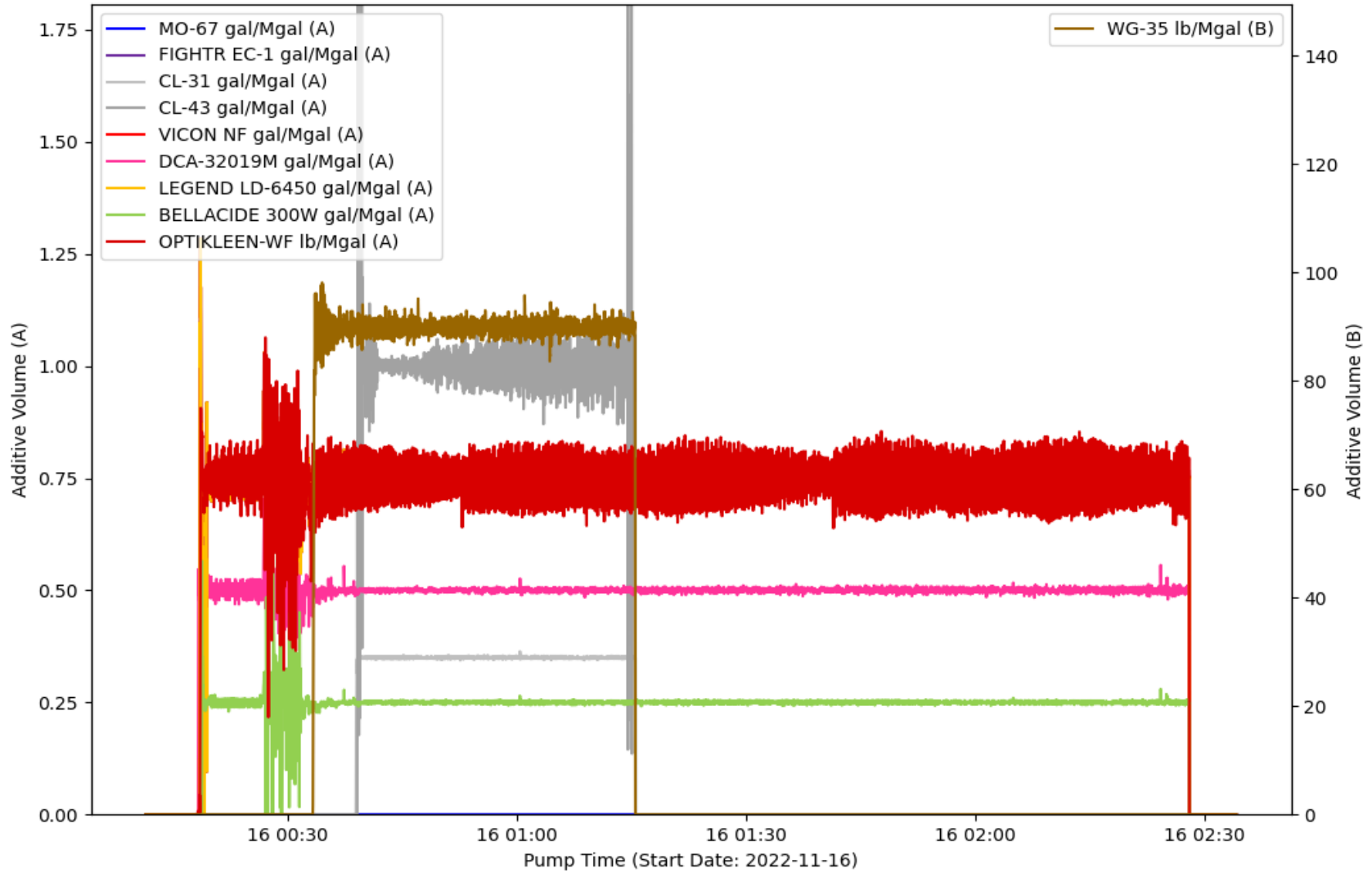
EVENT LOG : TREATMENT INTERVAL 8

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	Open Well	2022-11-15T14:25:21	0	2007	0	0	0	0	0
2	Start Pumping	2022-11-15T14:26:48	0.01	1993	0	0	0.01	0.01	0
3	Pump Acid	2022-11-15T14:31:01	8.45	3398	0	0	1364	1364	0
4	Ball on Seat	2022-11-15T14:34:46	7.72	3220	0	0	2637	2637	0
5	Break Formation	2022-11-15T14:35:20	7.71	3222	0	0	2822	2822	0
6	Pump Xlink Pill	2022-11-15T15:01:07	86.03	6943	0	0	44573	44573	0
7	Stop Pumping	2022-11-15T15:29:09	0	2899	0	0	108651	109341	15202
8	Start Pumping	2022-11-15T17:00:27	0	2417	0	0	108651	109341	15202
9	Pump Xlink Pill	2022-11-15T17:32:43	85.08	6948	0	0	165520	166210	15202
10	Stop Pumping	2022-11-15T18:59:40	7.93	3721	0	0	458089	465488	163006
11	ISIP	2022-11-15T18:59:50	0.51	3542	0	0	458097	465497	163006
12	Shut In Well	2022-11-15T19:05:10	0	3070	0	0	459908	467308	163006

TREATMENT PLOT : Treatment Interval 9



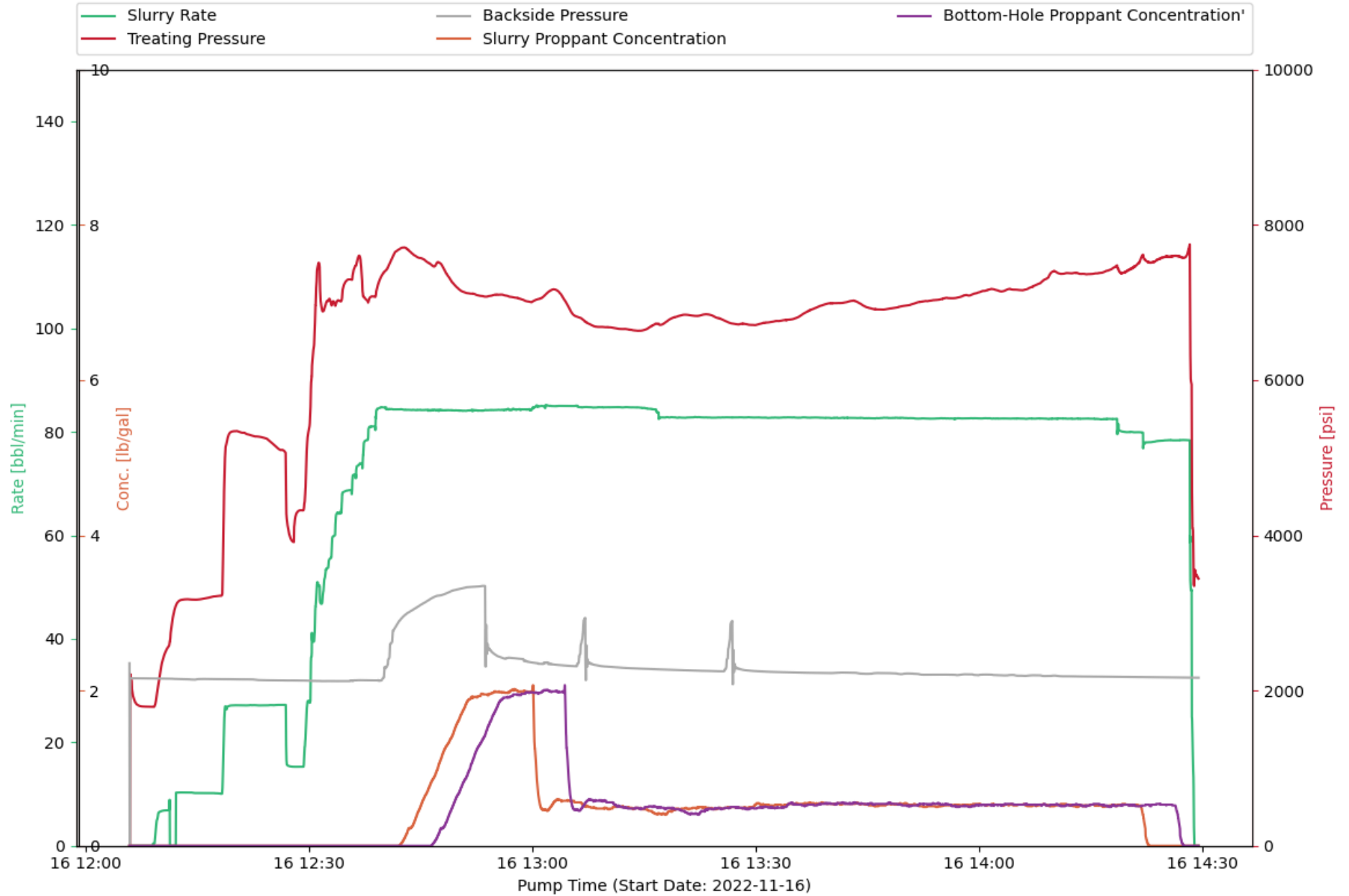
CHEMISTRY PLOT : Treatment Interval 9



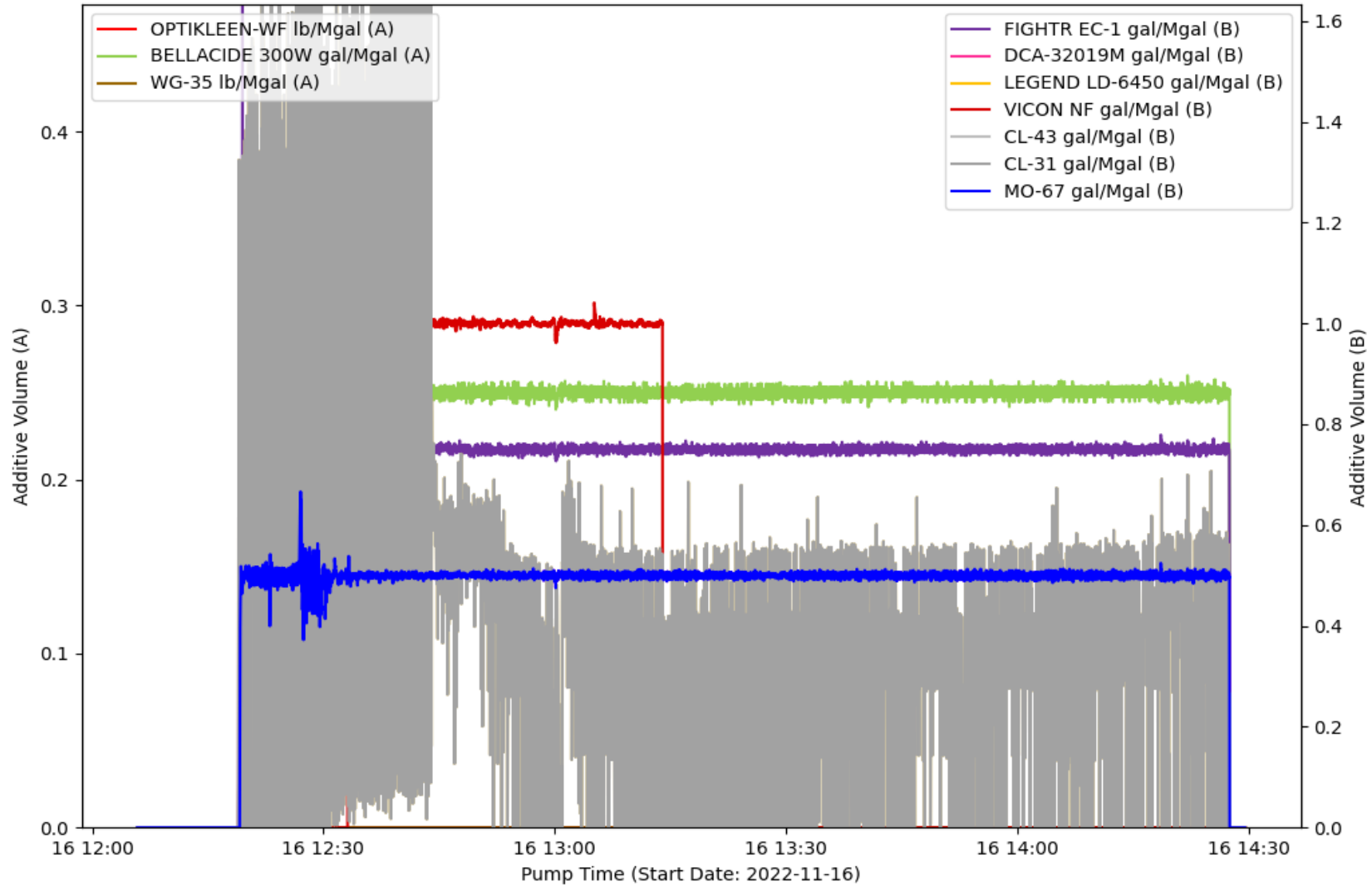
EVENT LOG : TREATMENT INTERVAL 9

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	Open Well	2022-11-16T00:12:29	0.22	1970	0	0	0.15	0.15	0
2	Start Pumping	2022-11-16T00:12:45	0.21	1927	0	0	2.48	2.46	0
3	Pump Acid	2022-11-16T00:15:27	9.56	3225	0	0	904.3	904.36	0
4	Ball on Seat	2022-11-16T00:30:17	15.21	3591	0	0	14720	14720	0
5	Break Formation	2022-11-16T00:31:30	15.18	3605	0	0	15492	15492	0
6	Stop Pumping	2022-11-16T02:31:40	0.99	3981	0	0	406728	413266	144080
7	ISIP	2022-11-16T02:31:56	0	3677	0	0	406728	413266	144080
8	Shut In Well	2022-11-16T02:33:13	0	3431	0	0	406728	413266	144080

TREATMENT PLOT : Treatment Interval 10



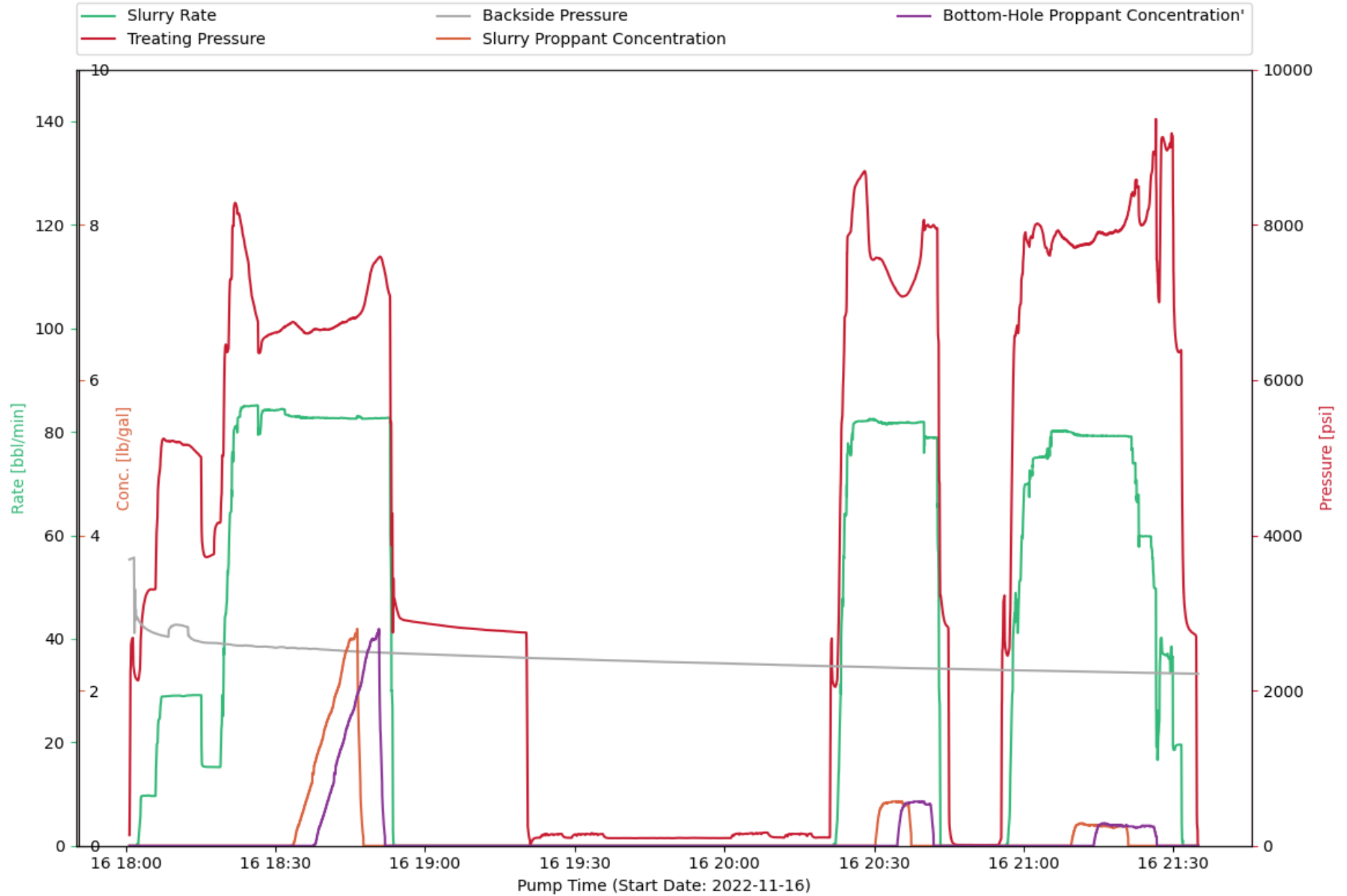
CHEMISTRY PLOT : Treatment Interval 10



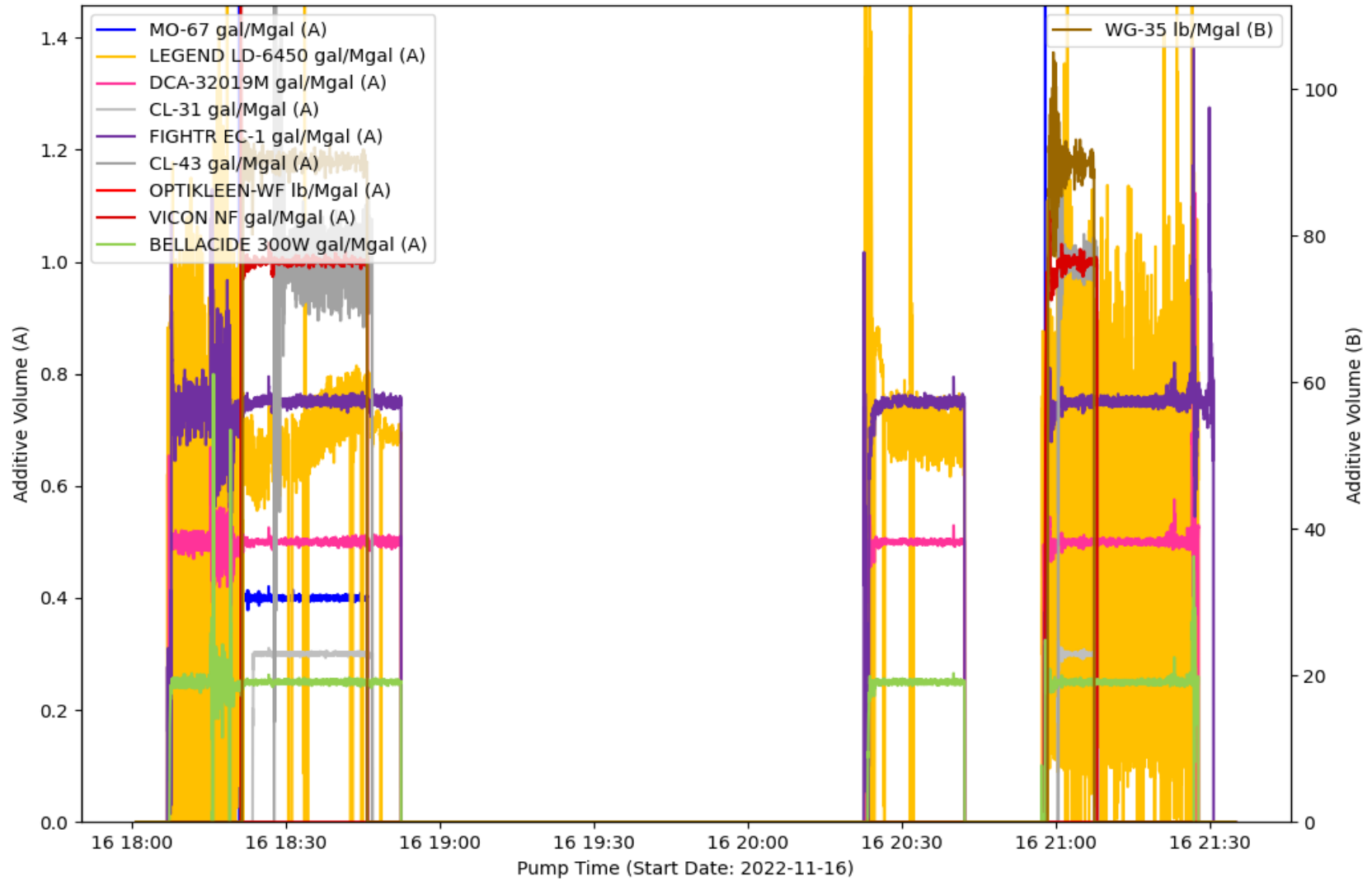
EVENT LOG : TREATMENT INTERVAL 10

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	Resuming Job	2022-11-16T12:05:51	0	0	0	0	0	0	0
2	Open Well	2022-11-16T12:07:59	0	1793	0	0	0	0	0
3	Start Pumping	2022-11-16T12:08:39	0	1791	0	0	0	0	0
4	Start Avg Trt 10	2022-11-16T12:11:44	0	2969	0	0	526.31	526.3	0
5	Pump Acid	2022-11-16T12:14:32	10.22	3172	0	0	1590	1590	0
6	Ball on Seat	2022-11-16T12:27:41	15.3	3929	0	0	13388	13388	0
7	Break Formation	2022-11-16T12:28:47	15.25	4323	0	0	14090	14090	0
8	Pump Xlink Pill	2022-11-16T12:39:50	84.77	7360	0	0	42096	42096	0
9	Stop Pumping	2022-11-16T14:28:42	20.99	4092	0	0	410342	420756	229417
10	ISIP	2022-11-16T14:28:56	1.4	3349	0	0	410456	420871	229417
11	Shut In Well	2022-11-16T14:29:30	0	3445	0	0	410456	420871	229417

TREATMENT PLOT : Treatment Interval 11



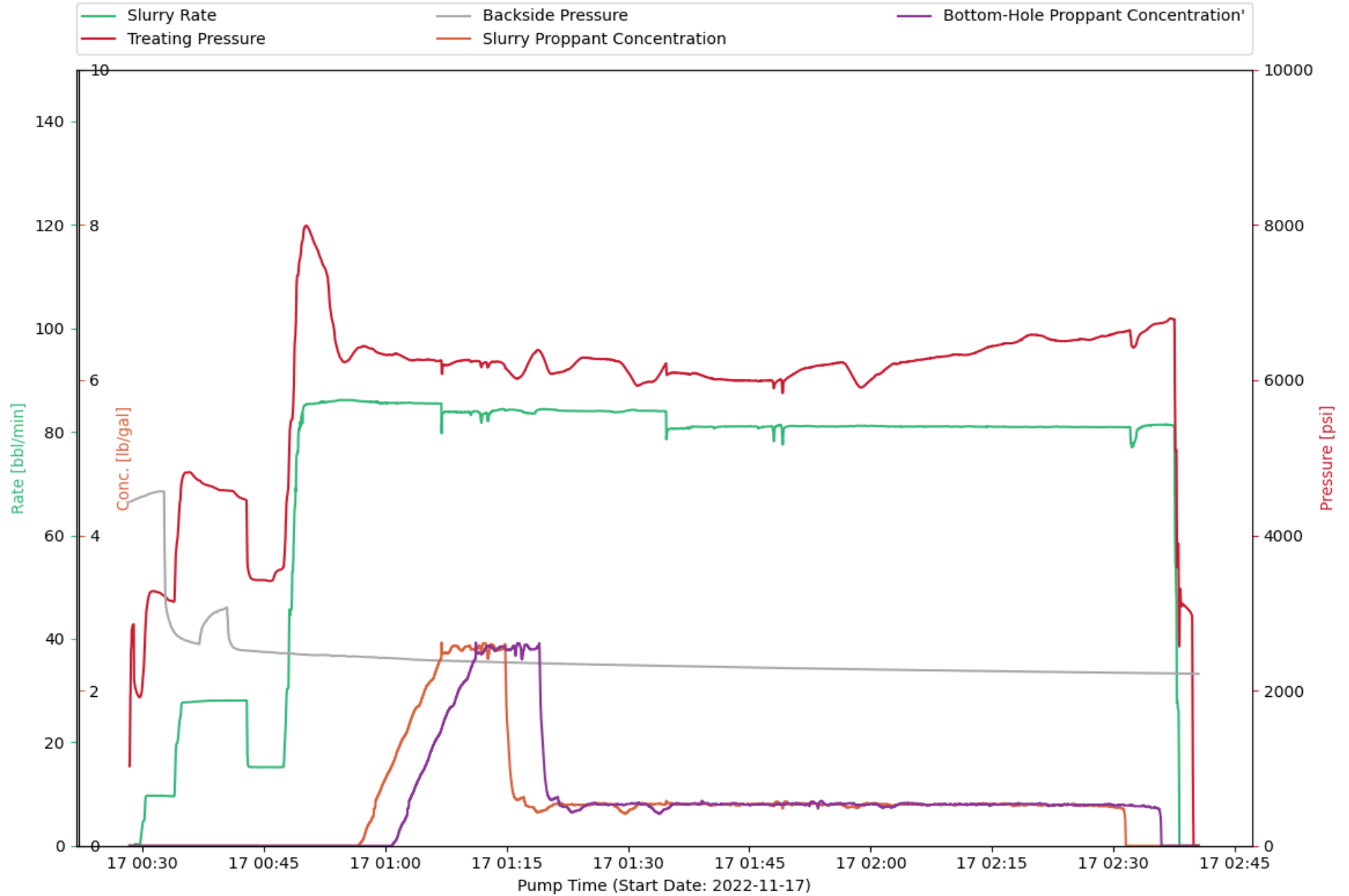
CHEMISTRY PLOT : Treatment Interval 11



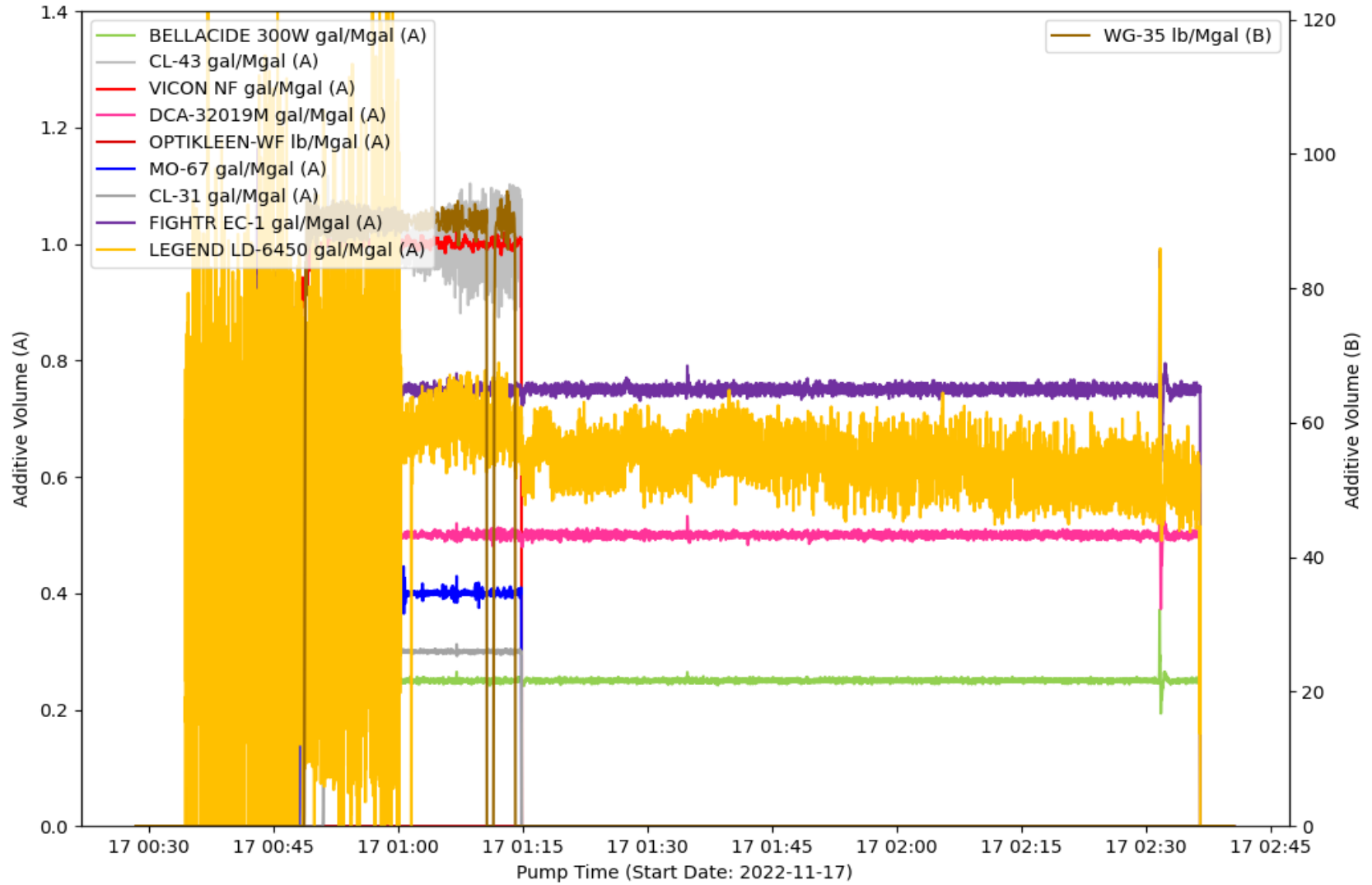
EVENT LOG : TREATMENT INTERVAL 11

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	2022-11-16T18:01:43	0	2228	0	0	0	0	0
2	Start Avg Trt 11	2022-11-16T18:02:17	0.32	2136	0	0	0.69	0.69	0
3	Start Pumping	2022-11-16T18:02:26	0.31	2129	0	0	2.68	2.68	0
4	Pump Acid	2022-11-16T18:04:36	9.75	3291	0	0	730.91	730.91	0
5	Ball on Seat	2022-11-16T18:17:38	15.23	3758	0	0	13760	13760	0
6	Break Formation	2022-11-16T18:18:55	15.21	4162	0	0	14589	14589	0
7	Stop Pumping	2022-11-16T18:53:39	0.85	3440	0	0	127592	130516	64429
8	Shut In Well	2022-11-16T18:55:12	0	2923	0	0	127592	130516	64429
9	Open Well	2022-11-16T20:21:43	0	2115	0	0	127592	130516	64429
10	Start Pumping	2022-11-16T20:21:52	0	2081	0	0	127592	130516	64429
11	Stop Pumping	2022-11-16T20:43:16	6.67	3219	0	0	193188	196658	76466
12	Shut In Well	2022-11-16T20:44:39	0	2830	0	0	193188	196658	76466
13	Open Well	2022-11-16T20:56:29	0	2498	0	0	193188	196658	76466
14	Start Pumping	2022-11-16T20:56:34	0	2478	0	0	193188	196658	76466
15	Stop Pumping	2022-11-16T21:31:55	0	3741	0	0	287802	291697	85813
16	ISIP	2022-11-16T21:31:57	0	3585	0	0	287802	291697	85813
17	Shut In Well	2022-11-16T21:34:11	0	2729	0	0	287802	291697	85813

TREATMENT PLOT : Treatment Interval 12



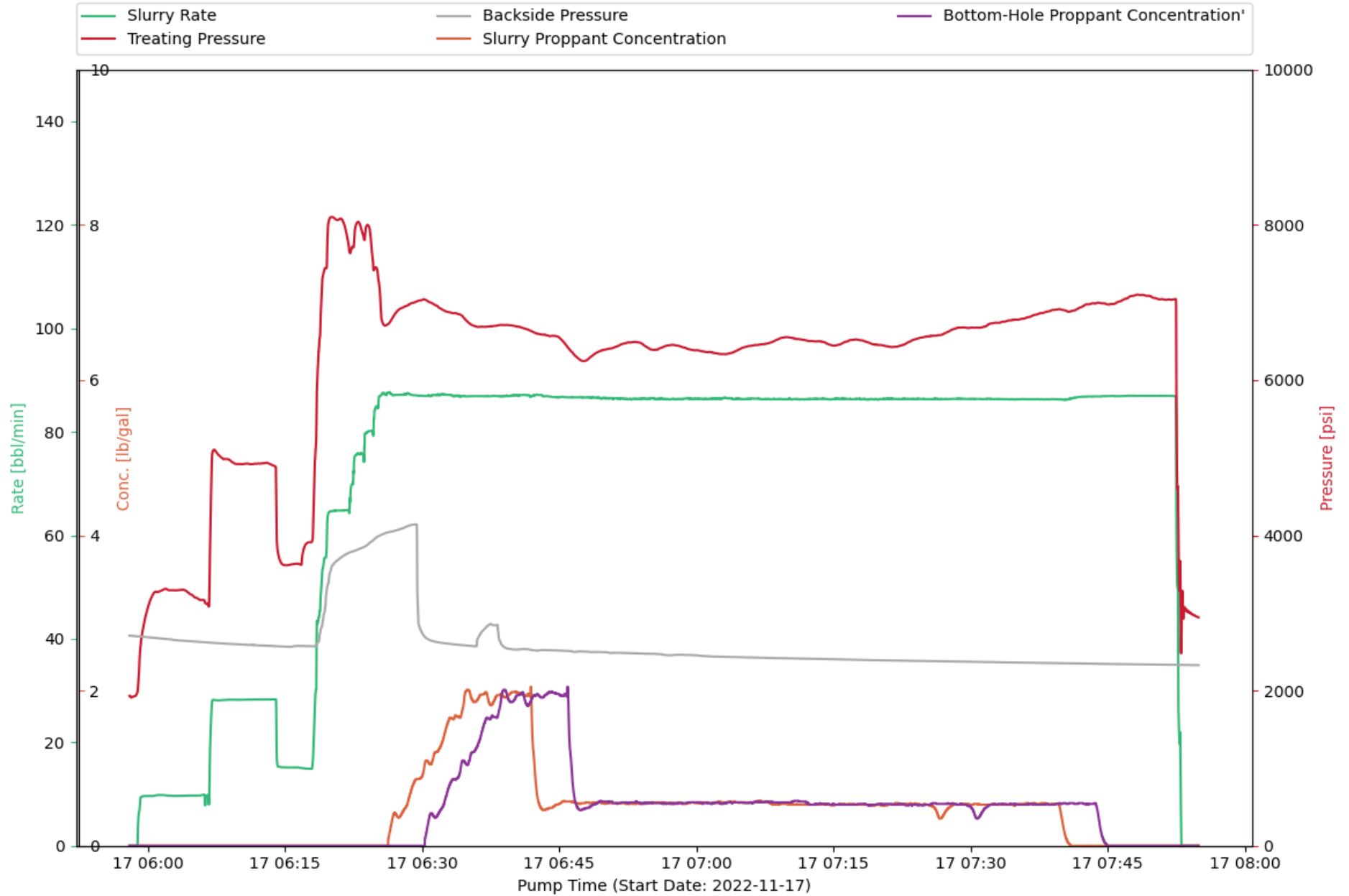
CHEMISTRY PLOT : Treatment Interval 12



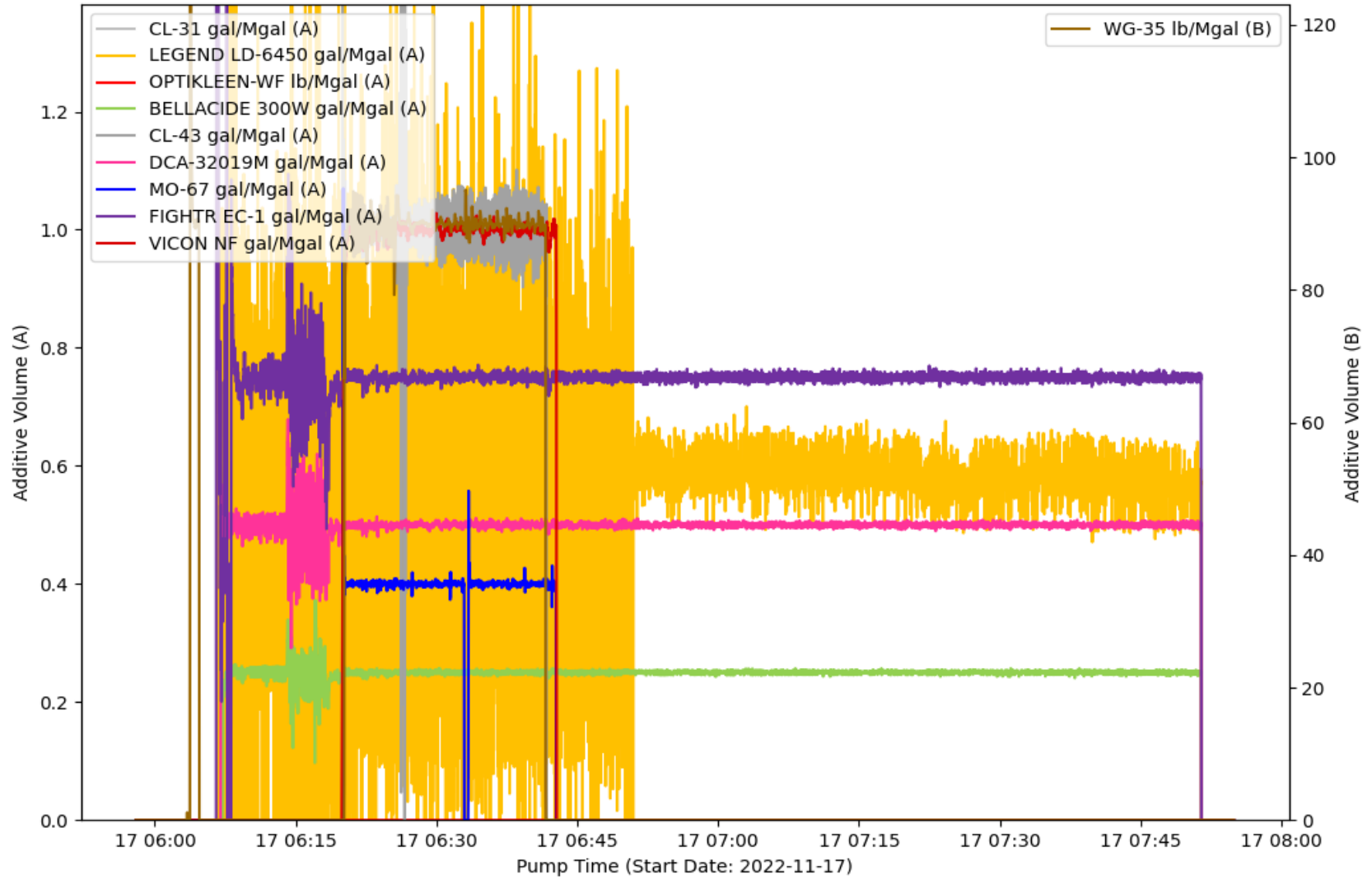
EVENT LOG : TREATMENT INTERVAL 12

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	Start Avg Trt 12	2022-11-17T00:29:15	0.31	1993	0	0	0.22	0.22	0
2	Open Well	2022-11-17T00:29:25	0.29	1946	0	0	2.34	2.35	0
3	Start Pumping	2022-11-17T00:29:32	0.28	1926	0	0	3.77	3.78	0
4	Pump Acid	2022-11-17T00:32:23	9.72	3244	0	0	935.2	935.18	0
5	Ball on Seat	2022-11-17T00:46:08	15.21	3426	0	0	13899	13899	0
6	Break Formation	2022-11-17T00:47:20	15.22	3573	0	0	14662	14662	0
7	Stop Pumping	2022-11-17T02:38:07	0	2568	0	0	383232	394307	244033
8	ISIP	2022-11-17T02:38:24	0	3095	0	0	383232	394307	244033
9	Shut In Well	2022-11-17T02:39:30	0	3011	0	0	383232	394307	244033

TREATMENT PLOT : Treatment Interval 13



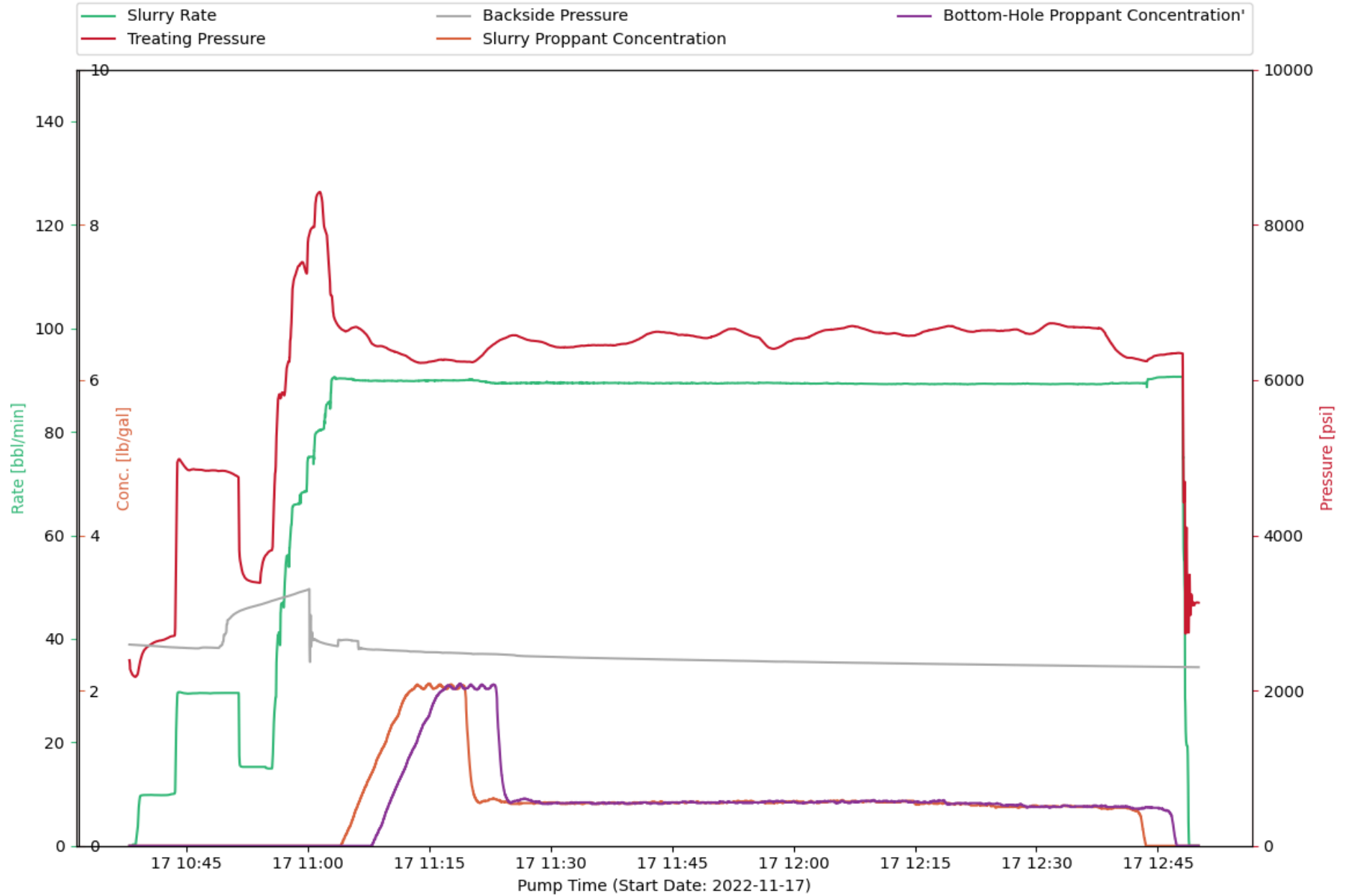
CHEMISTRY PLOT : Treatment Interval 13



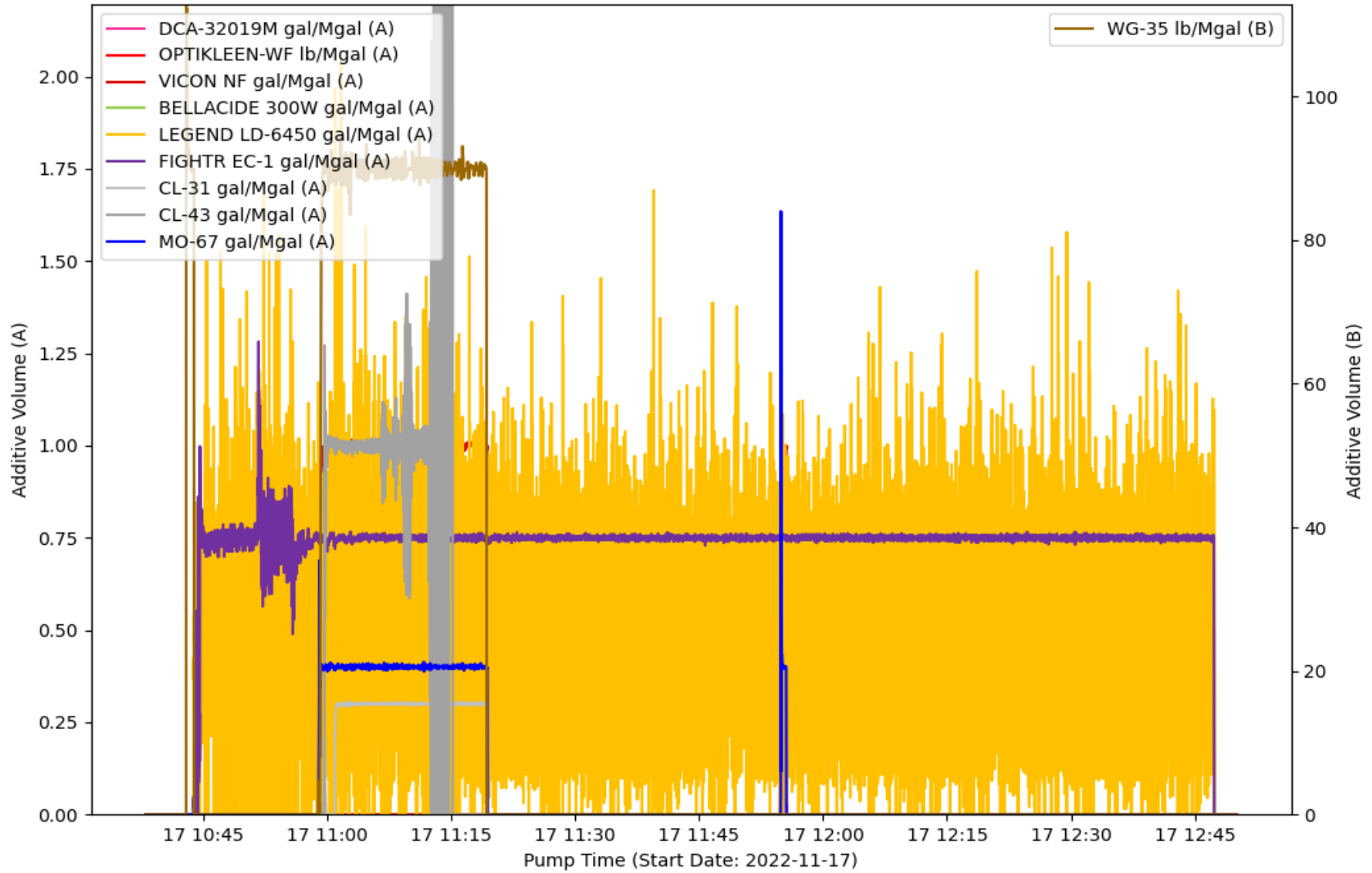
EVENT LOG : TREATMENT INTERVAL 13

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	2022-11-17T05:58:30	0	1927	0	0	0	0	0
2	Start Pumping	2022-11-17T05:59:53	9.64	3013	0	0	356.44	356.45	0
3	Pump Acid	2022-11-17T06:01:58	9.75	3311	0	0	1209	1209	0
4	Ball on Seat	2022-11-17T06:16:29	15.16	3633	0	0	13296	13296	0
5	Break Formation	2022-11-17T06:17:16	14.93	3883	0	0	13785	13785	0
6	Pump Xlink Pill	2022-11-17T06:22:59	75.88	8038	0	0	26629	26629	0
7	Stop Pumping	2022-11-17T07:52:56	21.6	3628	0	0	343611	352187	188982
8	ISIP	2022-11-17T07:53:05	0	2868	0	0	343655	352232	188982
9	Shut In Well	2022-11-17T07:54:55	0	2943	0	0	343655	352232	188982

TREATMENT PLOT : Treatment Interval 14



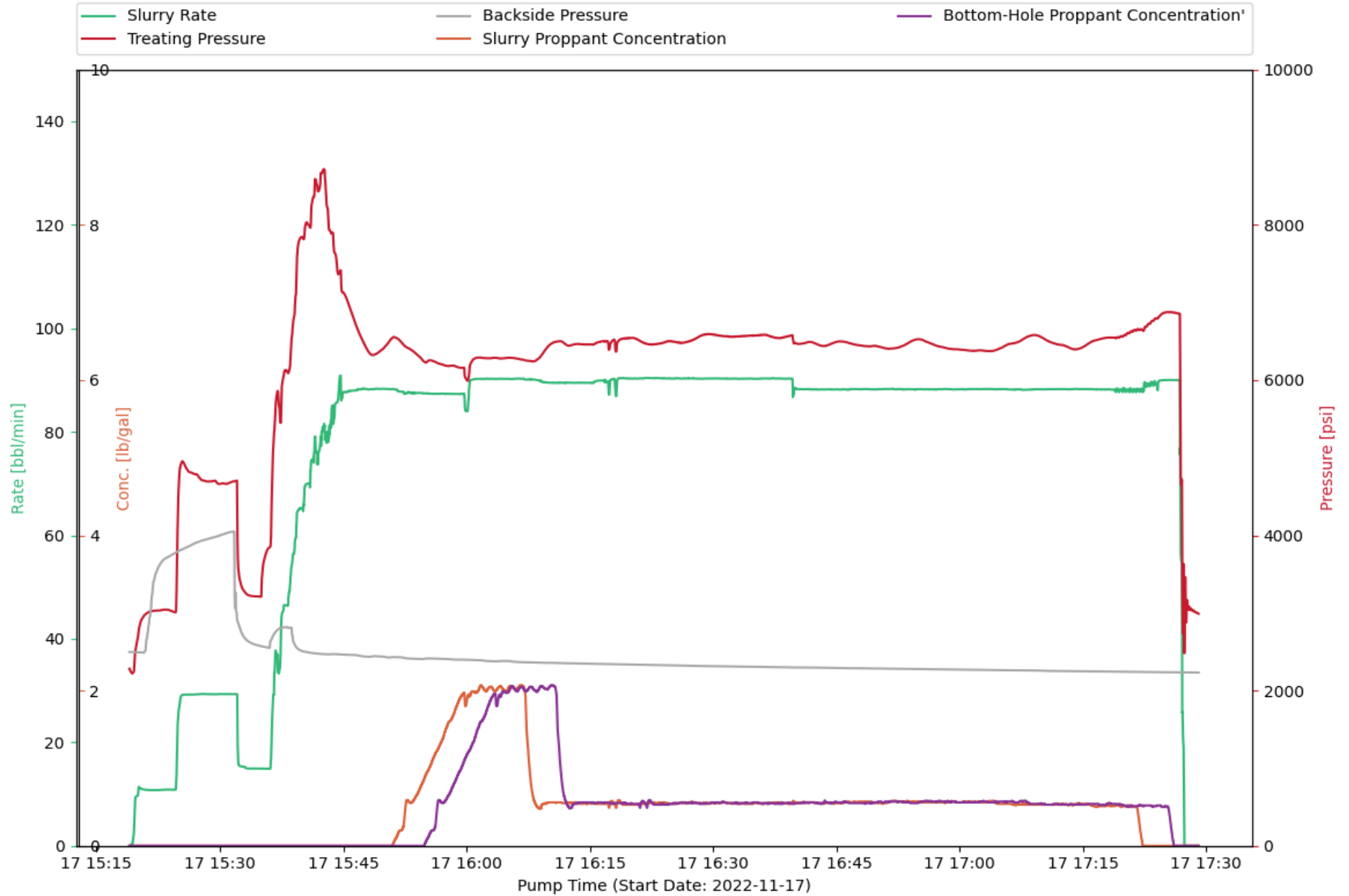
CHEMISTRY PLOT : Treatment Interval 14



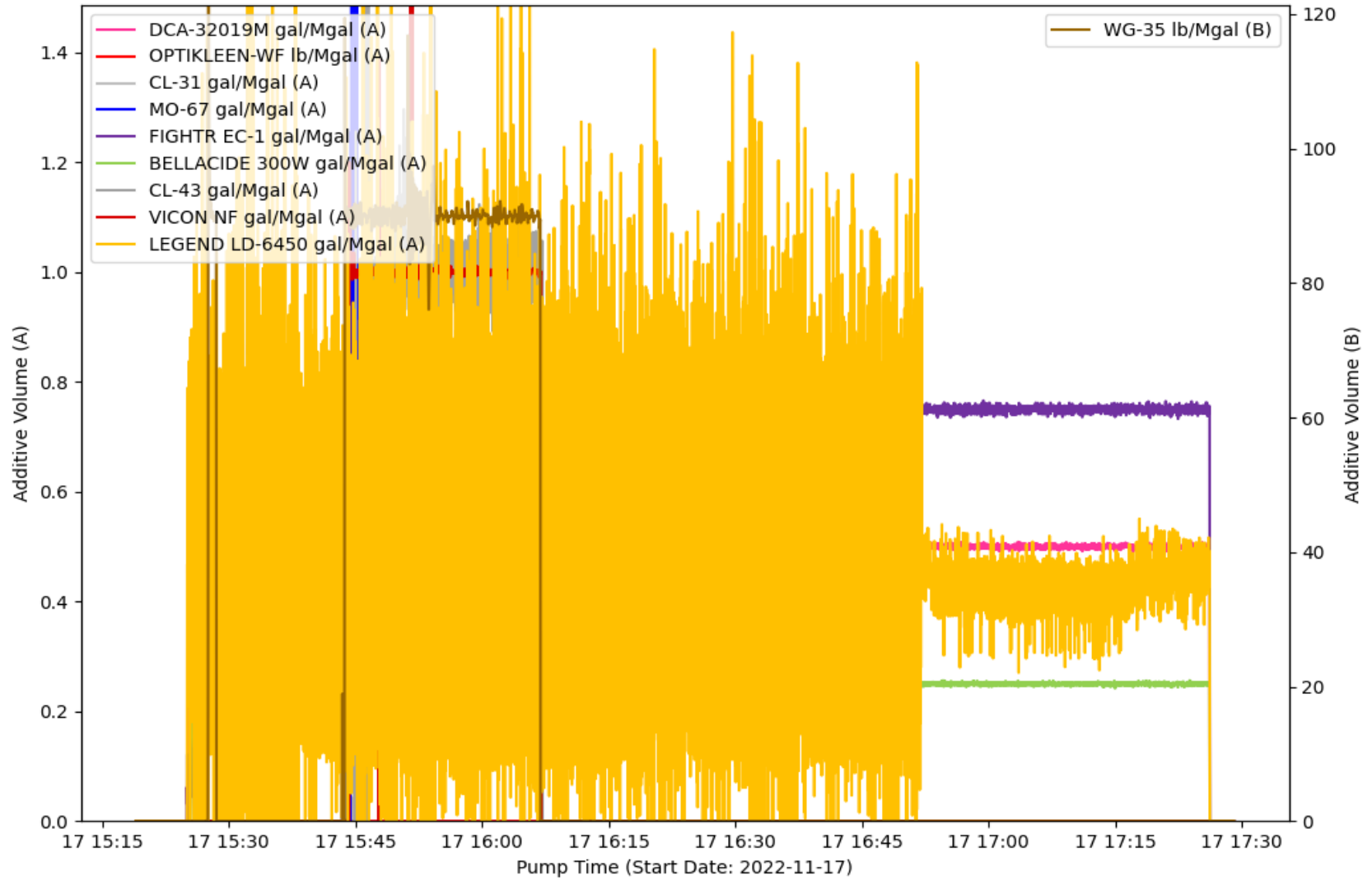
EVENT LOG : TREATMENT INTERVAL 14

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	2022-11-17T10:38:13	0	2238	0	0	0	0	0
2	Start Pumping	2022-11-17T10:38:33	0.24	2183	0	0	1.55	1.55	0
3	Pump Acid	2022-11-17T10:40:48	9.82	2606	0	0	728.51	728.52	0
4	Ball on Seat	2022-11-17T10:53:36	15.25	3394	0	0	12929	12929	0
5	Break Formation	2022-11-17T10:54:30	15.25	3667	0	0	13511	13512	0
6	Pump Xlink Pill	2022-11-17T11:02:14	84.12	7912	0	0	31623	31623	0
7	Stop Pumping	2022-11-17T12:48:49	1.75	2752	0	0	419146	430436	248749
8	ISIP	2022-11-17T12:49:05	0	3127	0	0	419147	430437	248749
9	Shut In Well	2022-11-17T12:50:01	0	3132	0	0	419147	430437	248749

TREATMENT PLOT : Treatment Interval 15



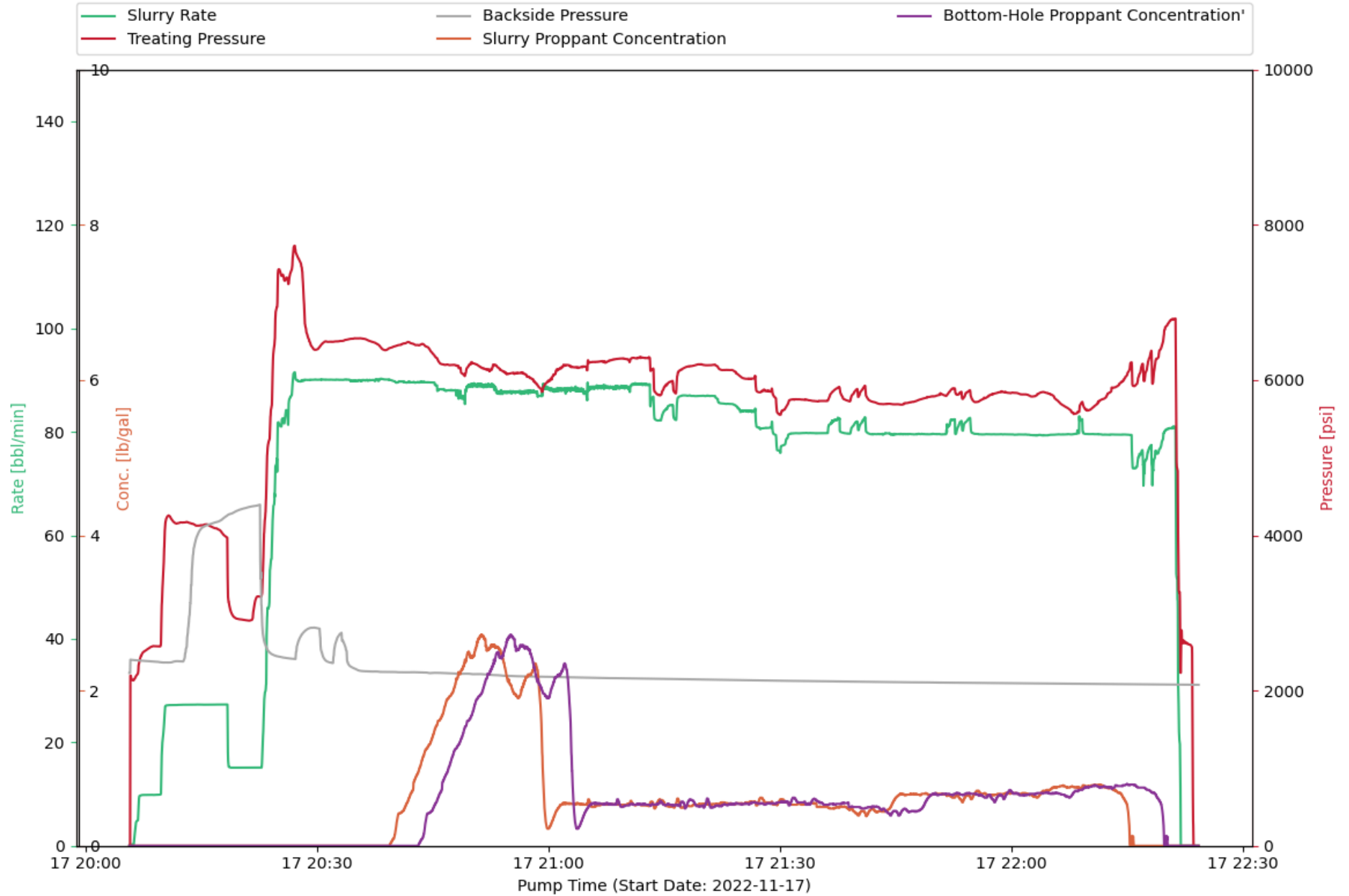
CHEMISTRY PLOT : Treatment Interval 15



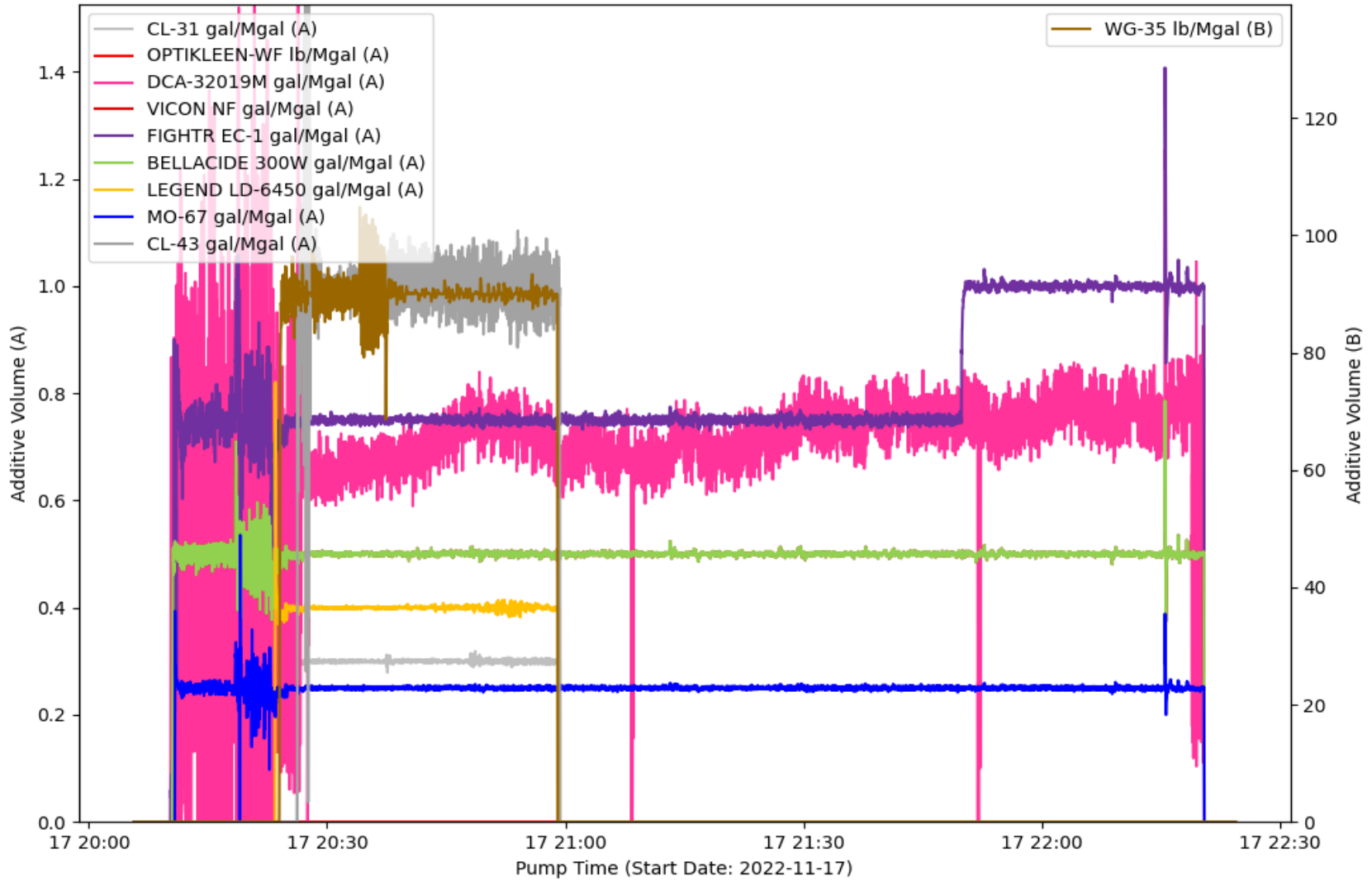
EVENT LOG : TREATMENT INTERVAL 15

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	2022-11-17T15:19:00	0	2281	0	0	0	0	0
2	Start Pumping	2022-11-17T15:19:29	1.84	2234	0	0	8.17	8.16	0
3	Pump Acid	2022-11-17T15:20:52	10.86	2975	0	0	574.99	574.95	0
4	Ball on Seat	2022-11-17T15:34:23	14.93	3213	0	0	12788	12788	0
5	Break Formation	2022-11-17T15:35:56	14.89	3836	0	0	13759	13759	0
6	Pump Xlink Pill	2022-11-17T15:46:37	88.02	6693	0	0	43898	43898	0
7	Stop Pumping	2022-11-17T17:27:20	0	2481	0	0	408428	419011	233177
8	ISIP	2022-11-17T17:27:23	0	3005	0	0	408428	419011	233177
9	Shut In Well	2022-11-17T17:29:03	0	2992	0	0	408428	419011	233177

TREATMENT PLOT : Treatment Interval 16



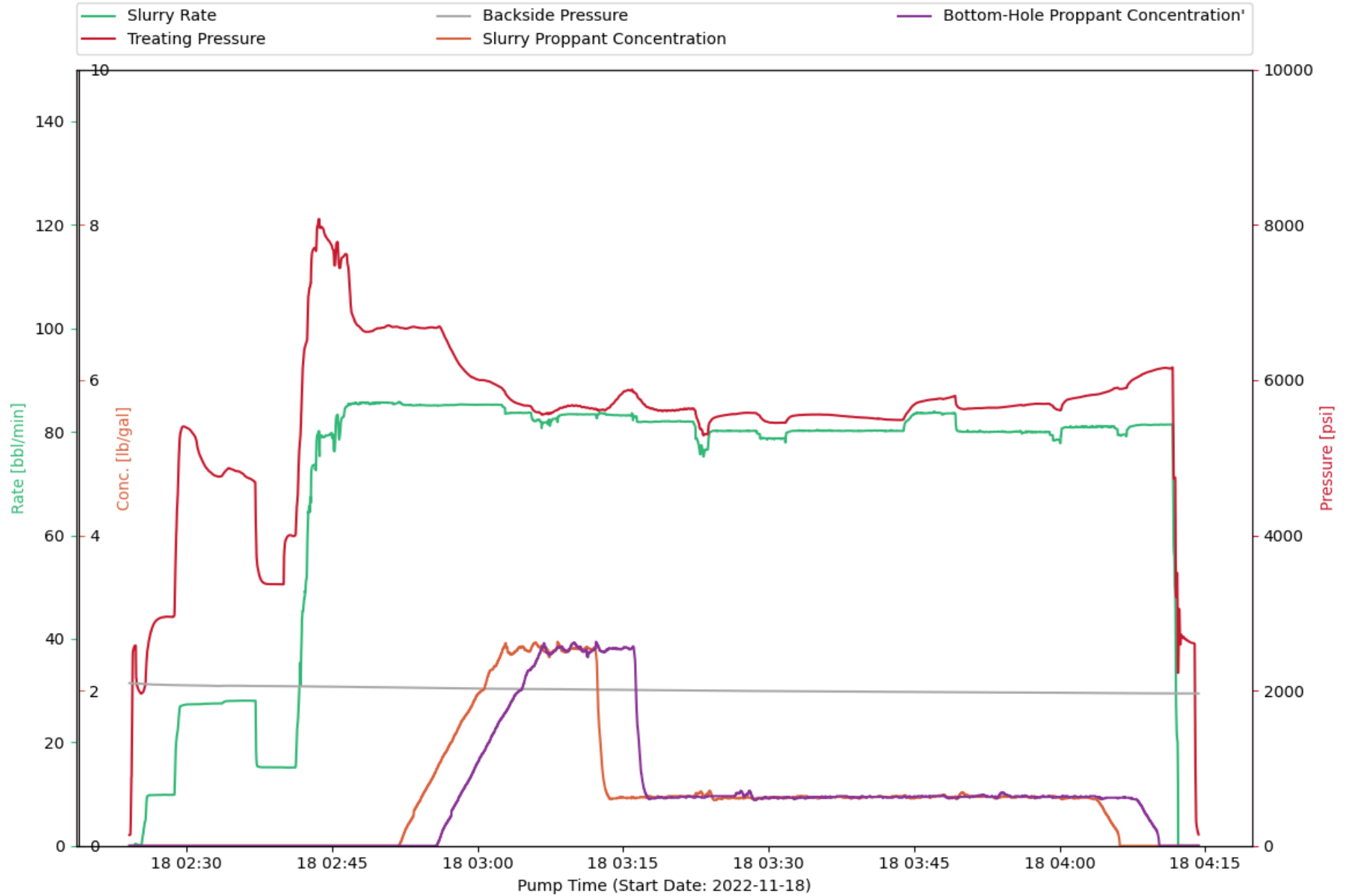
CHEMISTRY PLOT : Treatment Interval 16



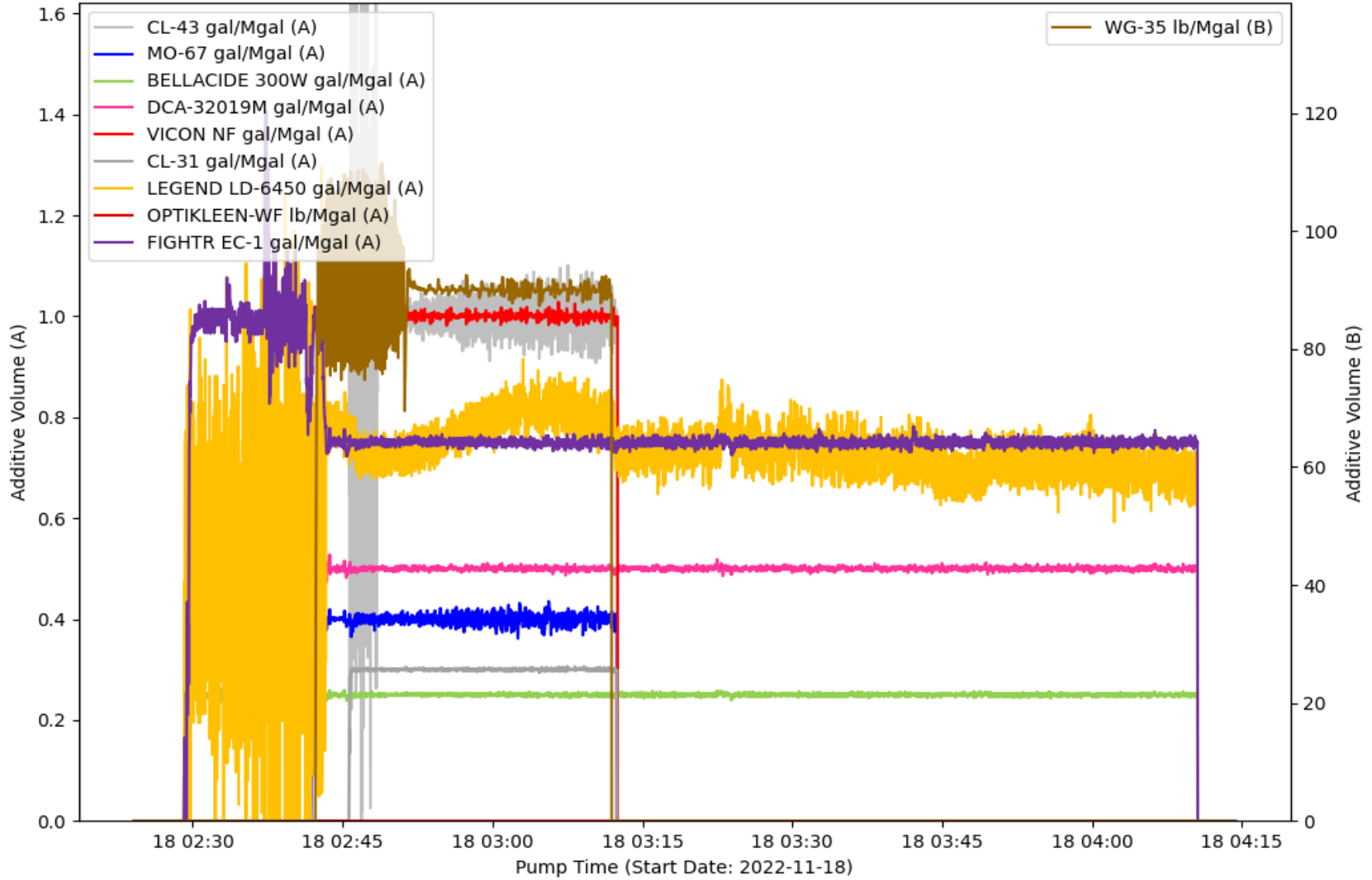
EVENT LOG : TREATMENT INTERVAL 16

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	End Avg Trt 15	2022-11-17T20:05:52	0.27	2190	0	0	0.19	0.19	0
2	Start Avg Trt 16	2022-11-17T20:06:02	0.22	2139	0	0	0.69	0.69	0
3	Open Well	2022-11-17T20:06:07	0.21	2132	0	0	1.44	1.44	0
4	Start Pumping	2022-11-17T20:06:11	0.2	2129	0	0	2.02	2.02	0
5	Pump Acid	2022-11-17T20:08:43	9.85	2572	0	0	871.74	871.72	0
6	Ball on Seat	2022-11-17T20:21:34	15.11	2911	0	0	13073	13072	0
7	Break Formation	2022-11-17T20:22:34	15.09	3210	0	0	13702	13702	0
8	Pump Xlink Pill	2022-11-17T20:37:03	90.02	6496	0	0	63602	63602	0
9	Stop Pumping	2022-11-17T22:22:01	0	2270	0	0	417888	430094	268917
10	ISIP	2022-11-17T22:22:20	0	2647	0	0	417888	430094	268917
11	Shut In Well	2022-11-17T22:23:19	0	2584	0	0	417888	430094	268917

TREATMENT PLOT : Treatment Interval 17



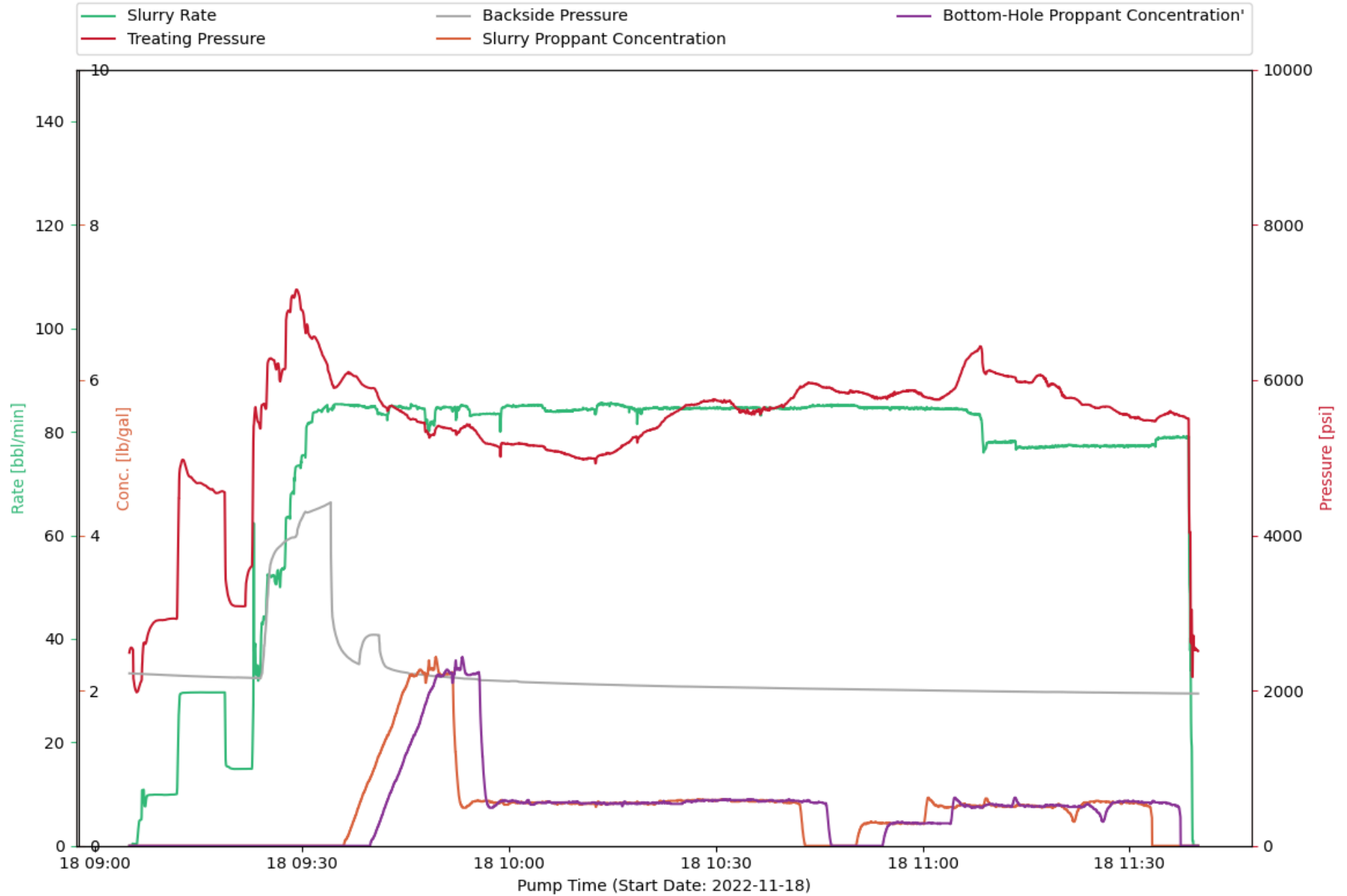
CHEMISTRY PLOT : Treatment Interval 17



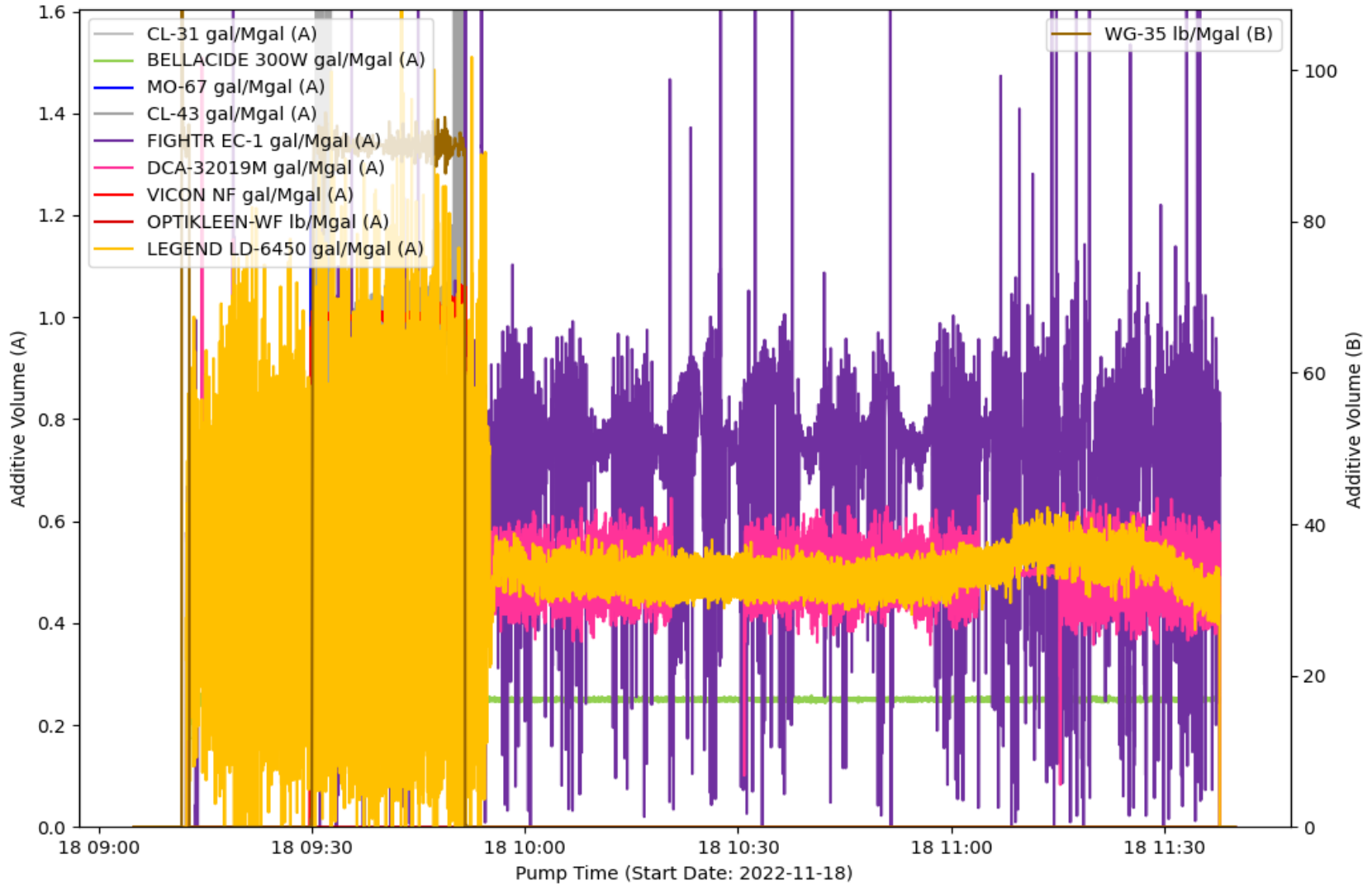
EVENT LOG : TREATMENT INTERVAL 17

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	Open Well	2022-11-18T02:25:07	0.06	1992	0	0	0.04	0.04	0
2	Start Pumping	2022-11-18T02:25:19	0.02	1960	0	0	0.46	0.46	0
3	Pump Acid	2022-11-18T02:27:25	9.84	2941	0	0	715.23	715.18	0
4	Ball on Seat	2022-11-18T02:39:59	15.15	3369	0	0	12671	12671	0
5	Break Formation	2022-11-18T02:41:04	15.11	3990	0	0	13367	13367	0
6	Pump Xlink Pill	2022-11-18T02:49:11	85.49	6632	0	0	38250	38250	0
7	Stop Pumping	2022-11-18T04:12:13	0	2228	0	0	311950	322612	234888
8	ISIP	2022-11-18T04:12:29	0	2686	0	0	311950	322612	234888
9	Shut In Well	2022-11-18T04:13:19	0	2632	0	0	311950	322612	234888

TREATMENT PLOT : Treatment Interval 18



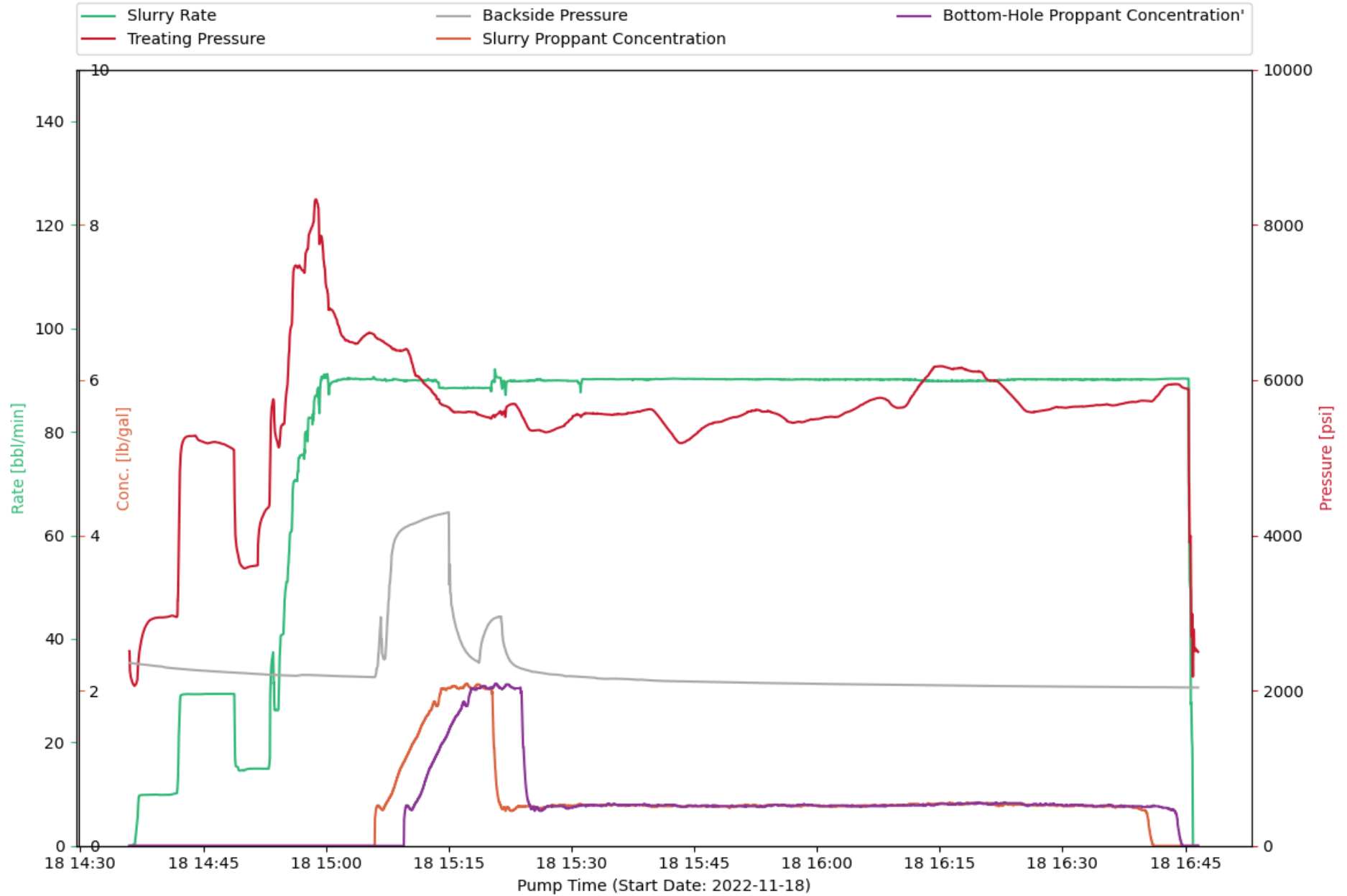
CHEMISTRY PLOT : Treatment Interval 18



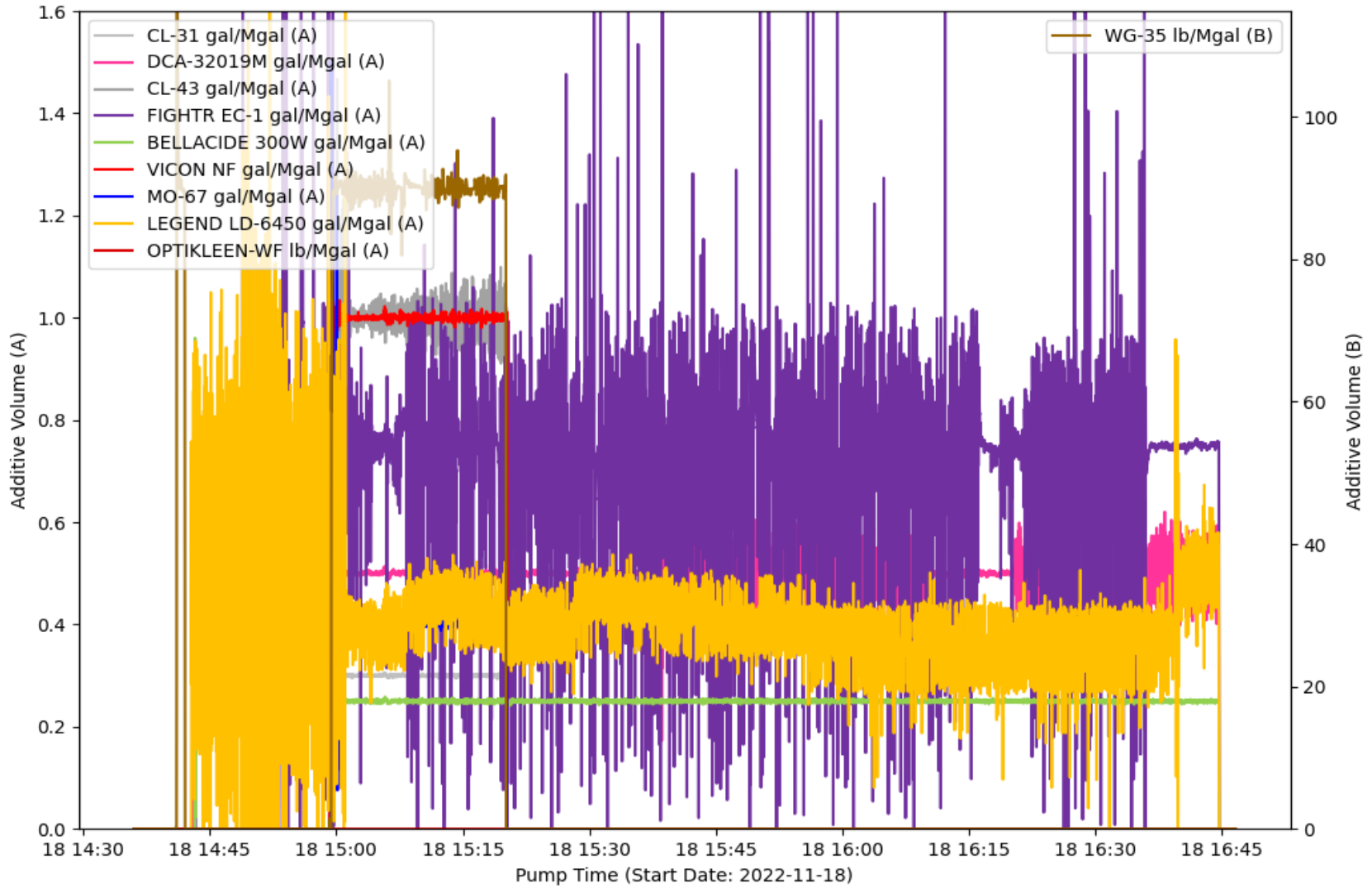
EVENT LOG : TREATMENT INTERVAL 18

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	2022-11-18T09:05:45	0.37	2055	0	0	0.26	0.26	0
2	Start Pumping	2022-11-18T09:06:01	0.34	1980	0	0	4.13	4.14	0
3	Pump Acid	2022-11-18T09:08:06	9.85	2821	0	0	654.34	654.36	0
4	Ball on Seat	2022-11-18T09:21:28	14.86	3085	0	0	12418	12418	0
5	Break Formation	2022-11-18T09:22:21	14.86	3555	0	0	12976	12976	0
6	Pump Xlink Pill	2022-11-18T09:32:33	84.15	6431	0	0	38169	38169	0
7	Stop Pumping	2022-11-18T11:39:03	13.93	2454	0	0	466417	477546	245199
8	ISIP	2022-11-18T11:39:09	0.95	2259	0	0	466430	477560	245199
9	Shut In Well	2022-11-18T11:39:55	0	2513	0	0	466433	477563	245199

TREATMENT PLOT : Treatment Interval 19



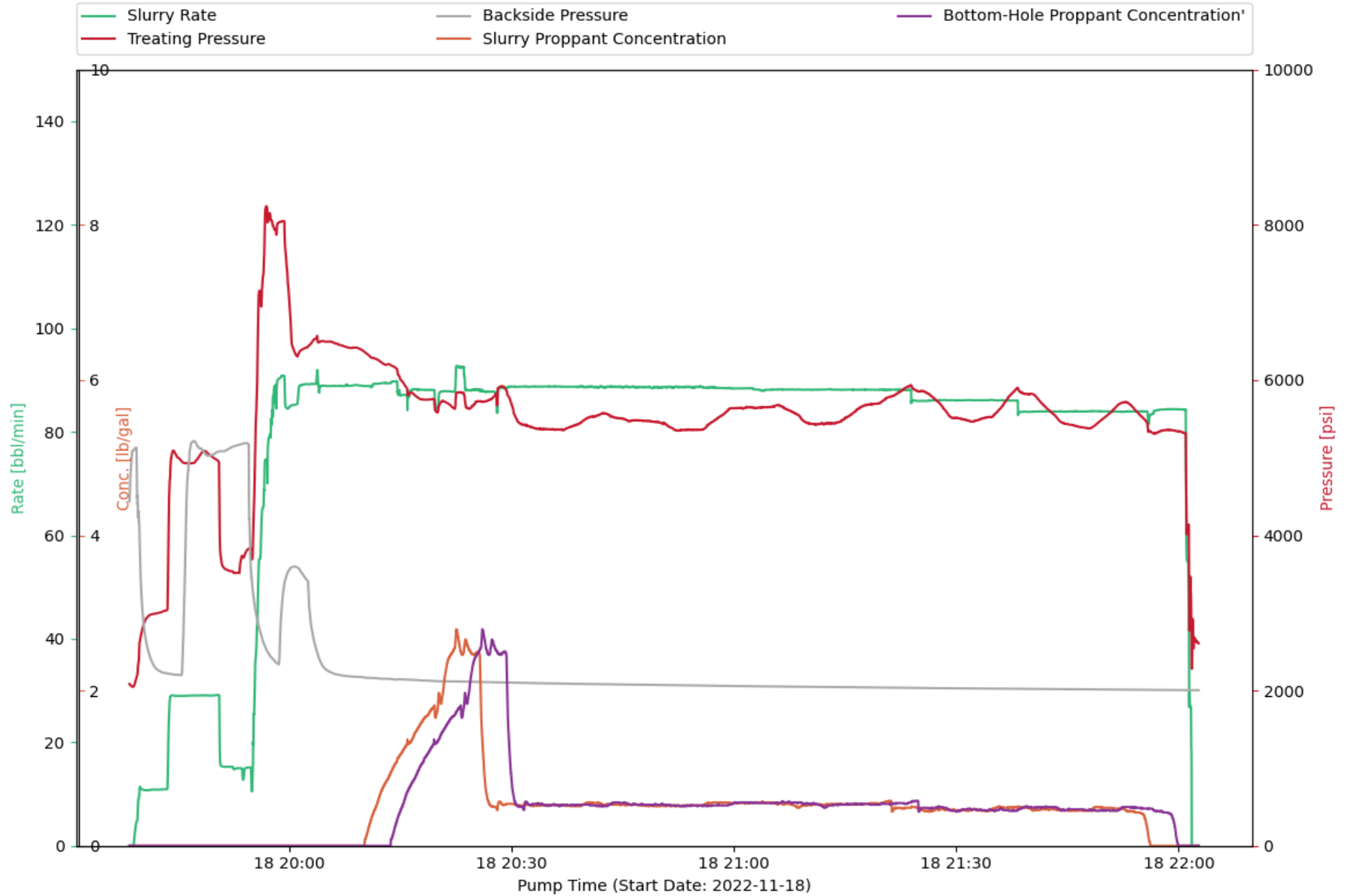
CHEMISTRY PLOT : Treatment Interval 19



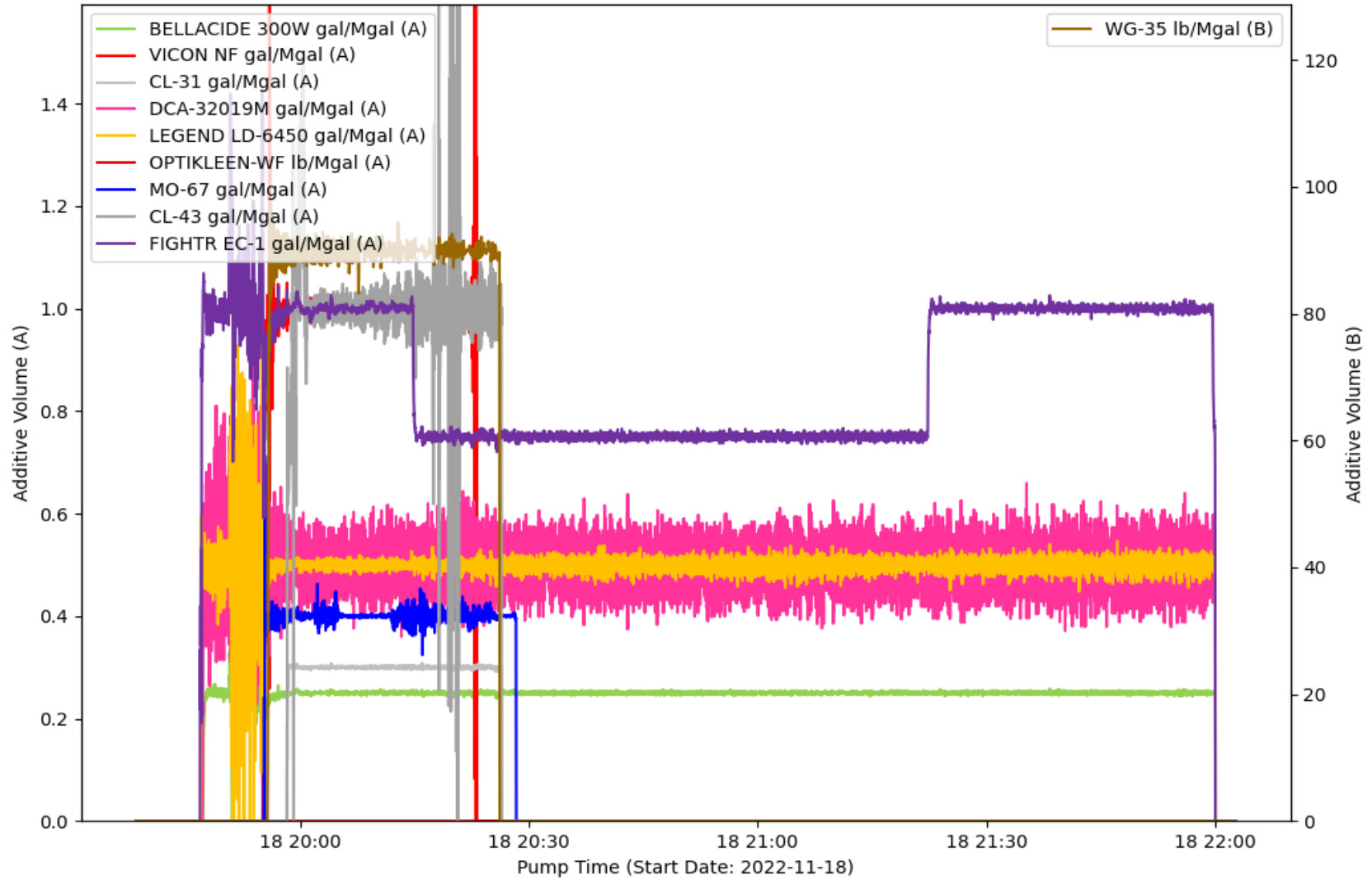
EVENT LOG : TREATMENT INTERVAL 19

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	Open Well	2022-11-18T14:36:10	0	2176	0	0	0	0	0
2	Start Pumping	2022-11-18T14:37:20	9.77	2578	0	0	165.15	165.17	0
3	Pump Acid	2022-11-18T14:38:57	9.85	2930	0	0	833.64	833.69	0
4	Ball on Seat	2022-11-18T14:51:39	14.93	3611	0	0	12280	12280	0
5	Break Formation	2022-11-18T14:53:02	15.09	4368	0	0	13155	13155	0
6	Ball on Seat	2022-11-18T15:02:15	90.24	6537	0	0	40402	40403	0
7	Stop Pumping	2022-11-18T16:45:52	19.19	2861	0	0	420536	431067	232058
8	ISIP	2022-11-18T16:45:58	0	2300	0	0	420565	431097	232058
9	Shut In Well	2022-11-18T16:46:33	0	2499	0	0	420565	431097	232058

TREATMENT PLOT : Treatment Interval 20



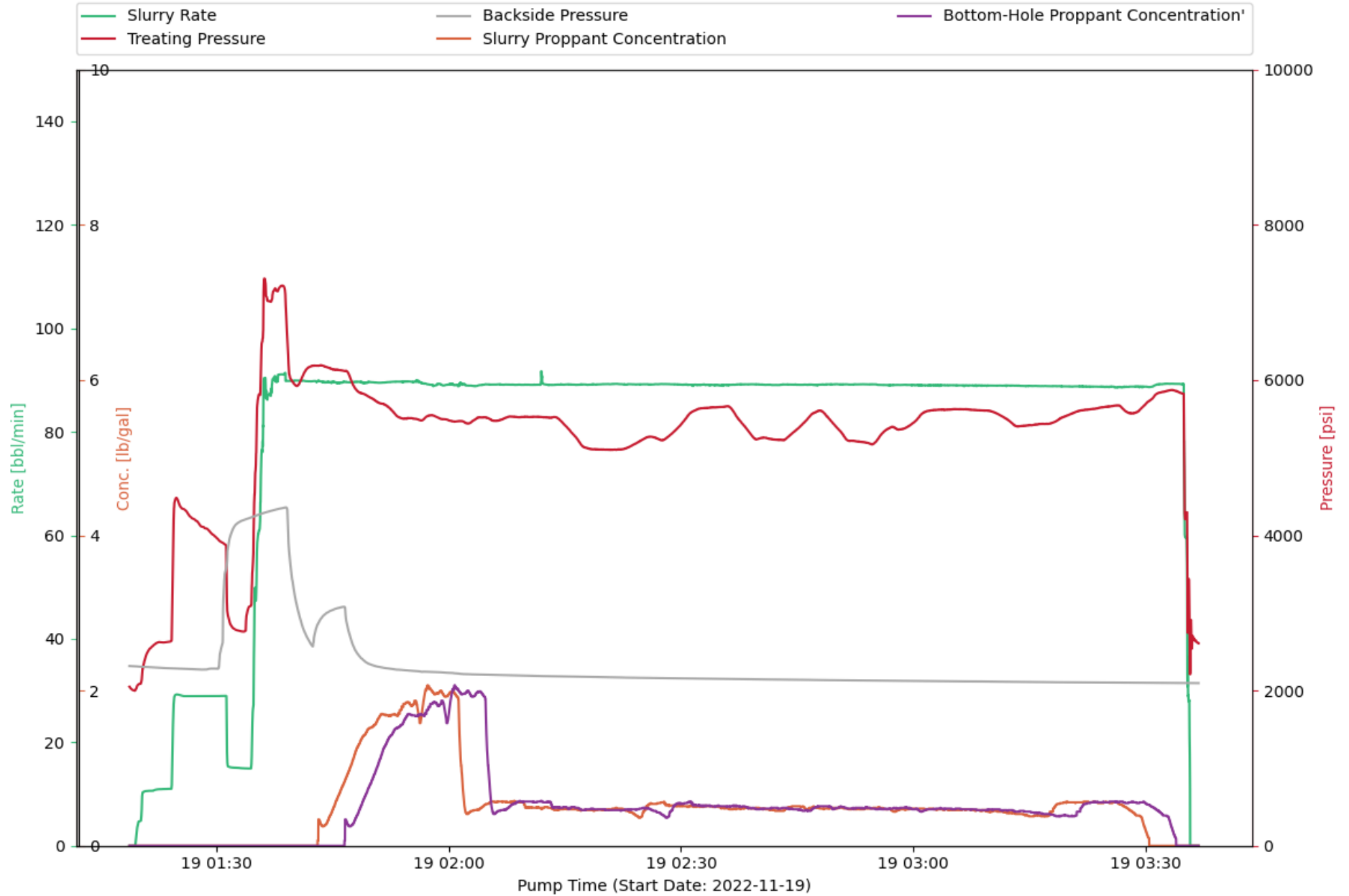
CHEMISTRY PLOT : Treatment Interval 20



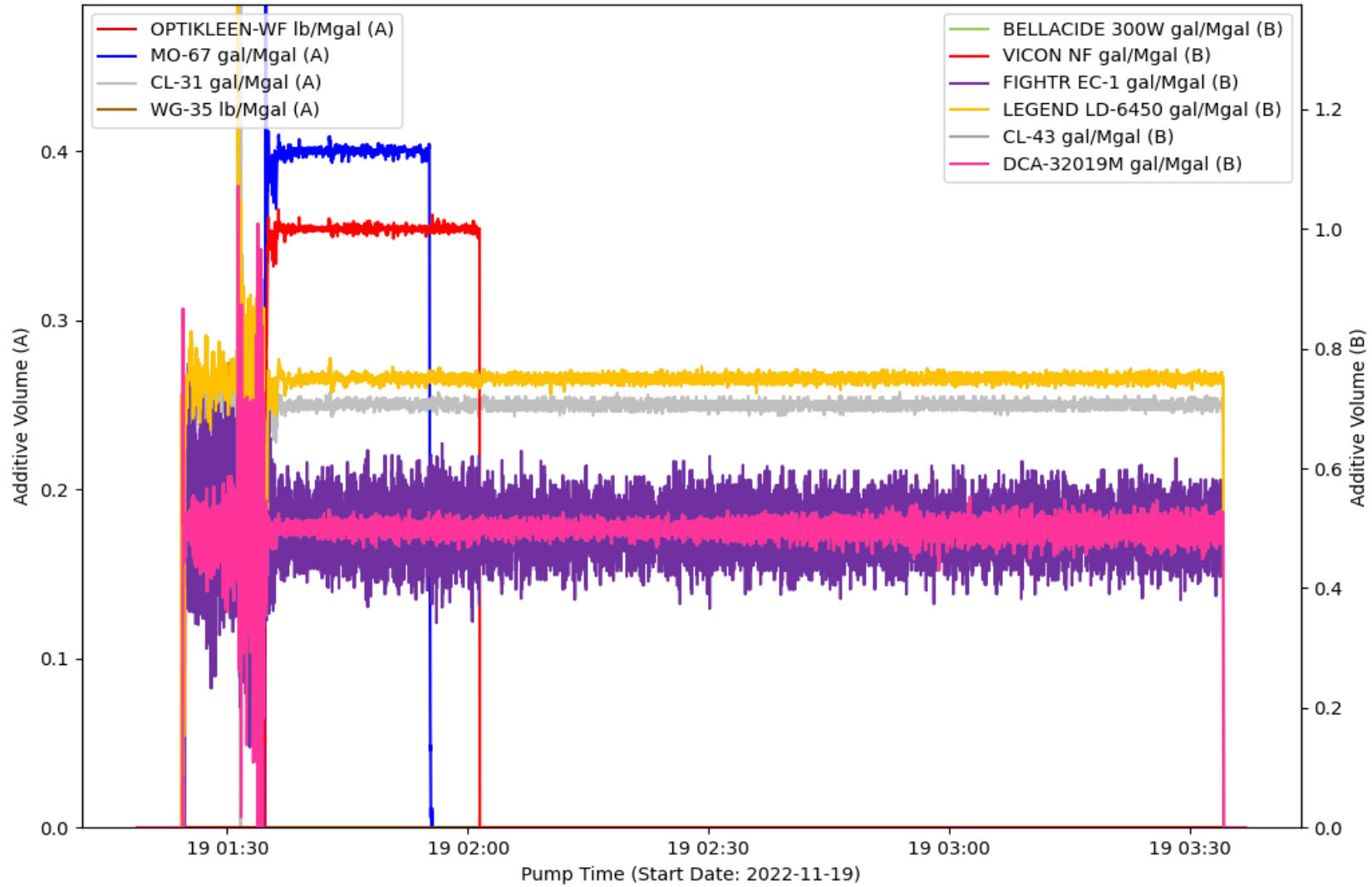
EVENT LOG : TREATMENT INTERVAL 20

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	2022-11-18T19:38:29	0	2081	0	0	0	0	0
2	Start Pumping	2022-11-18T19:39:00	0	2052	0	0	0	0	0
3	Pump Acid	2022-11-18T19:41:01	10.75	2962	0	0	732.04	732.09	0
4	Ball on Seat	2022-11-18T19:53:13	15.02	3515	0	0	12035	12035	0
5	Break Formation	2022-11-18T19:54:48	15.14	3832	0	0	13023	13024	0
6	Pump Xlink Pill	2022-11-18T20:08:05	88.89	6416	0	0	58317	58317	0
7	Stop Pumping	2022-11-18T22:01:42	19.31	2974	0	0	461960	473345	250821
8	ISIP	2022-11-18T22:01:51	0	2750	0	0	461985	473371	250821
9	Shut In Well	2022-11-18T22:02:39	0	2607	0	0	461985	473371	250821

TREATMENT PLOT : Treatment Interval 21



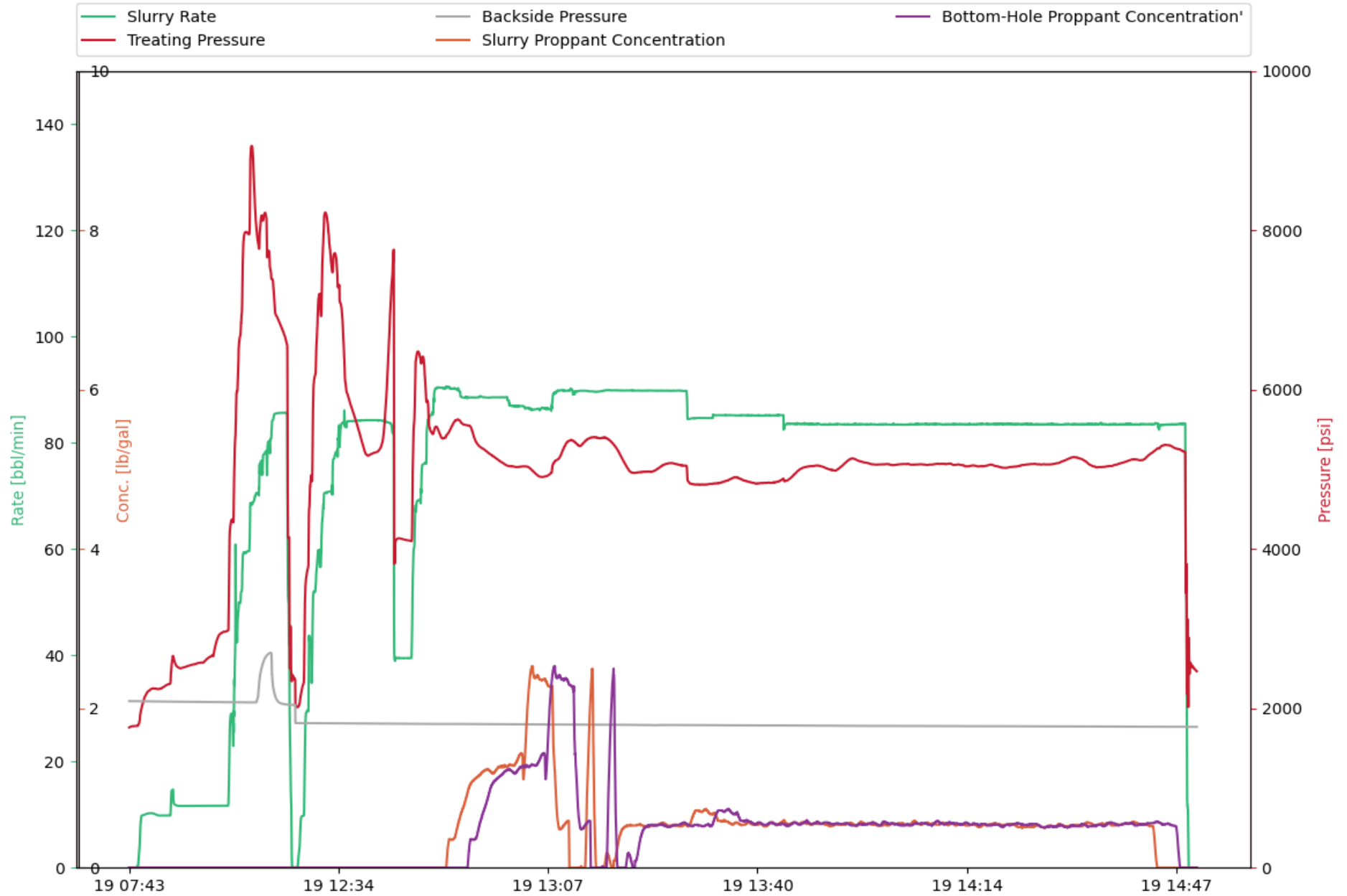
CHEMISTRY PLOT : Treatment Interval 21



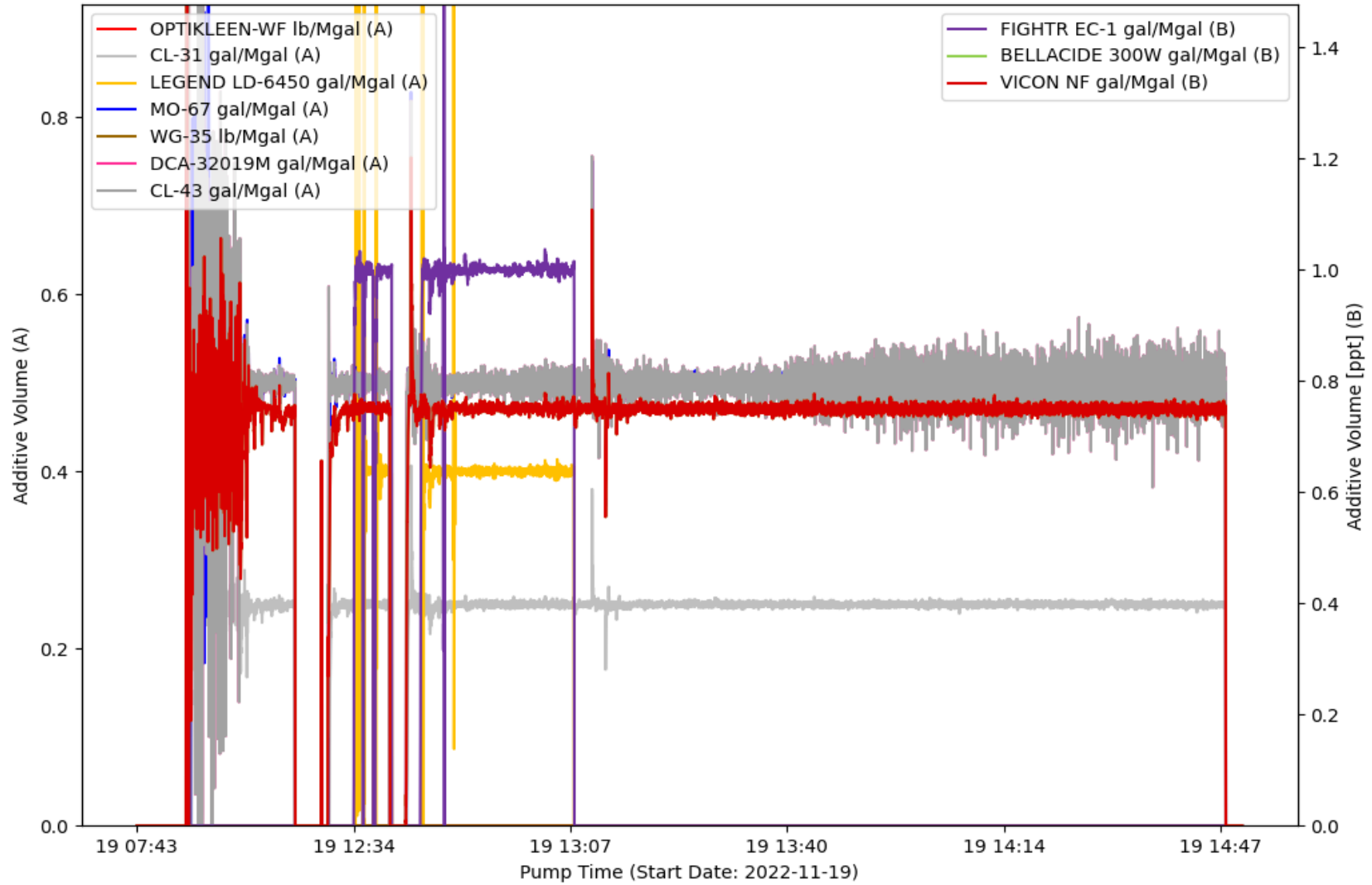
EVENT LOG : TREATMENT INTERVAL 21

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	2022-11-19T01:18:50	0	2042	0	0	0	0	0
2	Start Avg Trt 21	2022-11-19T01:19:24	0	2000	0	0	0	0	0
3	Start Pumping	2022-11-19T01:19:35	0.5	2013	0	0	0.54	0.54	0
4	Pump Acid	2022-11-19T01:21:43	10.63	2569	0	0	726.39	726.39	0
5	Ball on Seat	2022-11-19T01:33:45	14.97	2765	0	0	11957	11957	0
6	Break Formation	2022-11-19T01:34:29	14.93	3091	0	0	12423	12423	0
7	Pump Xlink Pill	2022-11-19T01:41:35	89.8	6129	0	0	36646	36646	0
8	Stop Pumping	2022-11-19T03:35:43	10.85	2211	0	0	451092	462459	250443
9	ISIP	2022-11-19T03:35:47	0	2649	0	0	451092	462459	250443
10	Shut In Well	2022-11-19T03:36:47	0	2608	0	0	451092	462459	250443

TREATMENT PLOT : Treatment Interval 22



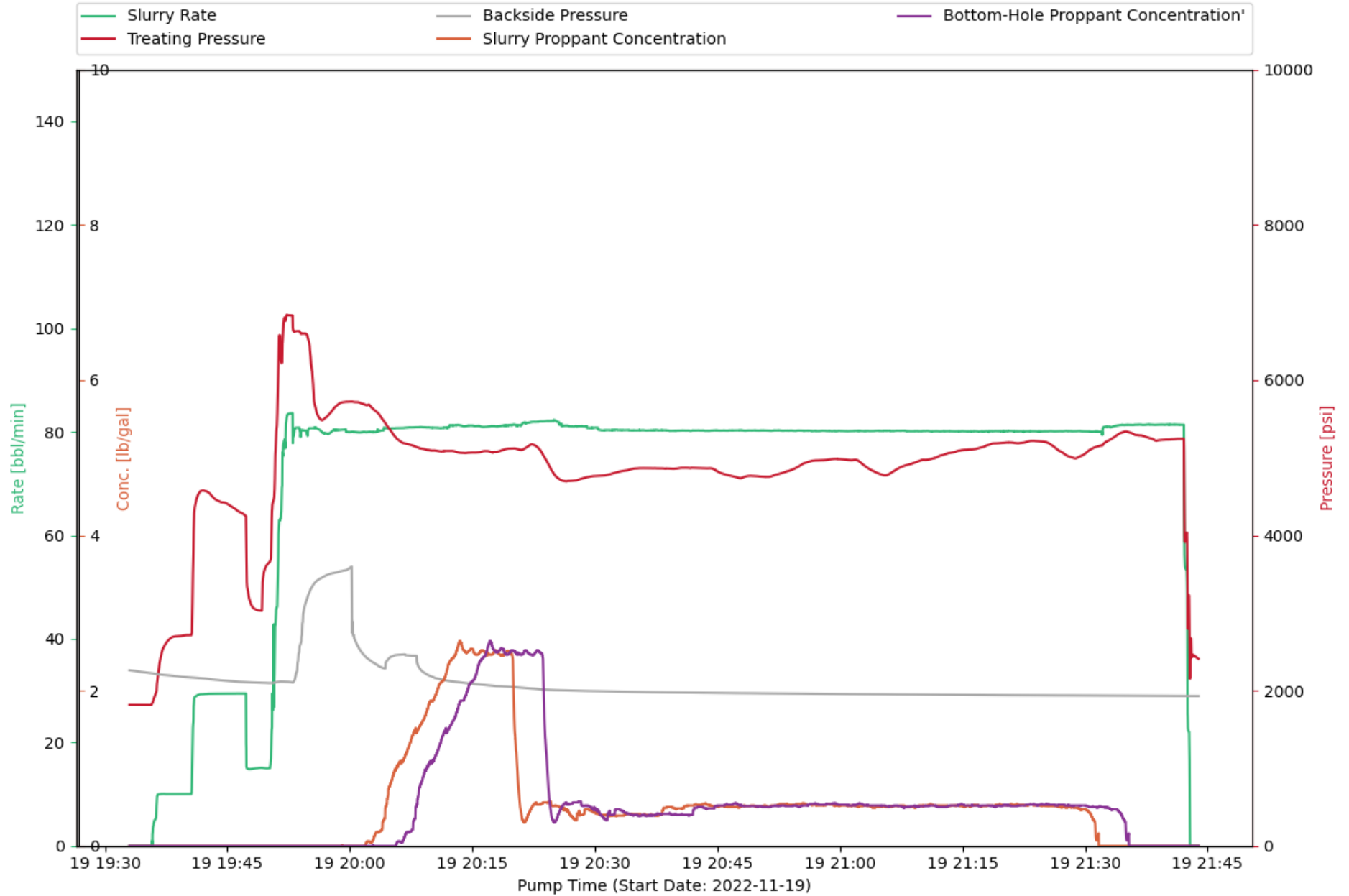
CHEMISTRY PLOT : Treatment Interval 22



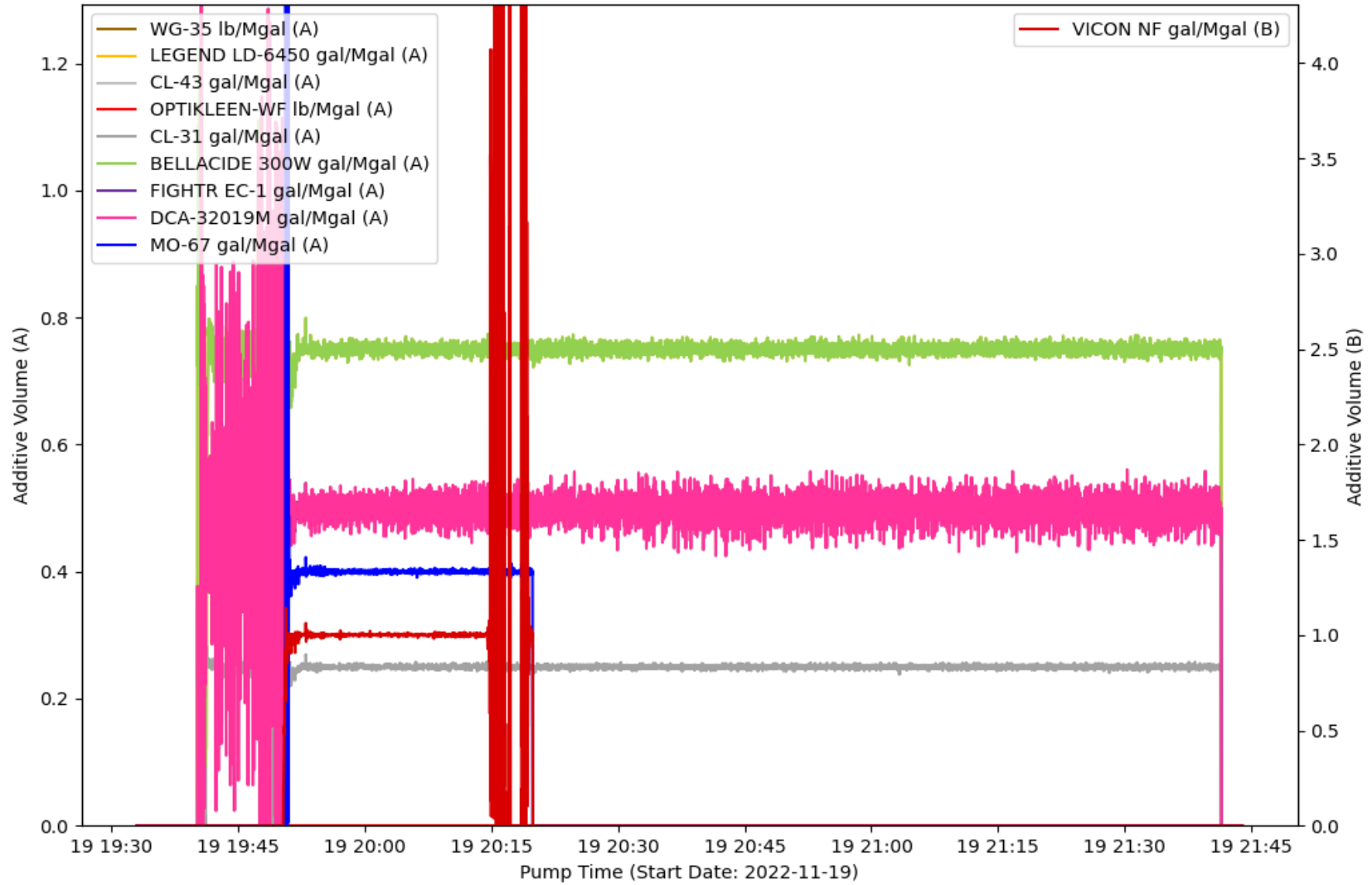
EVENT LOG : TREATMENT INTERVAL 22

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	2022-11-19T07:43:37	0	1775	0	0	0	0	0
2	Start Pumping	2022-11-19T07:44:26	0	1780	0	0	0	0	0
3	Pump Acid	2022-11-19T07:46:47	10.28	2244	0	0	800.43	800.44	0
4	Ball on Seat	2022-11-19T07:56:37	11.67	2654	0	0	5443	5443	0
5	Break Formation	2022-11-19T07:58:55	11.67	2973	0	0	6564	6564	0
6	Stop Pumping	2022-11-19T08:09:27	0	2387	0	0	33970	33970	0
7	Start Pumping	2022-11-19T12:27:27	0.13	2021	0	0	55697	55697	0
8	Stop Pumping	2022-11-19T14:49:29	0	2877	0	0	535056	546732	257243
9	ISIP	2022-11-19T14:49:38	0	2537	0	0	535056	546732	257243
10	Shut In Well	2022-11-19T14:50:29	0	2488	0	0	535056	546732	257243

TREATMENT PLOT : Treatment Interval 23



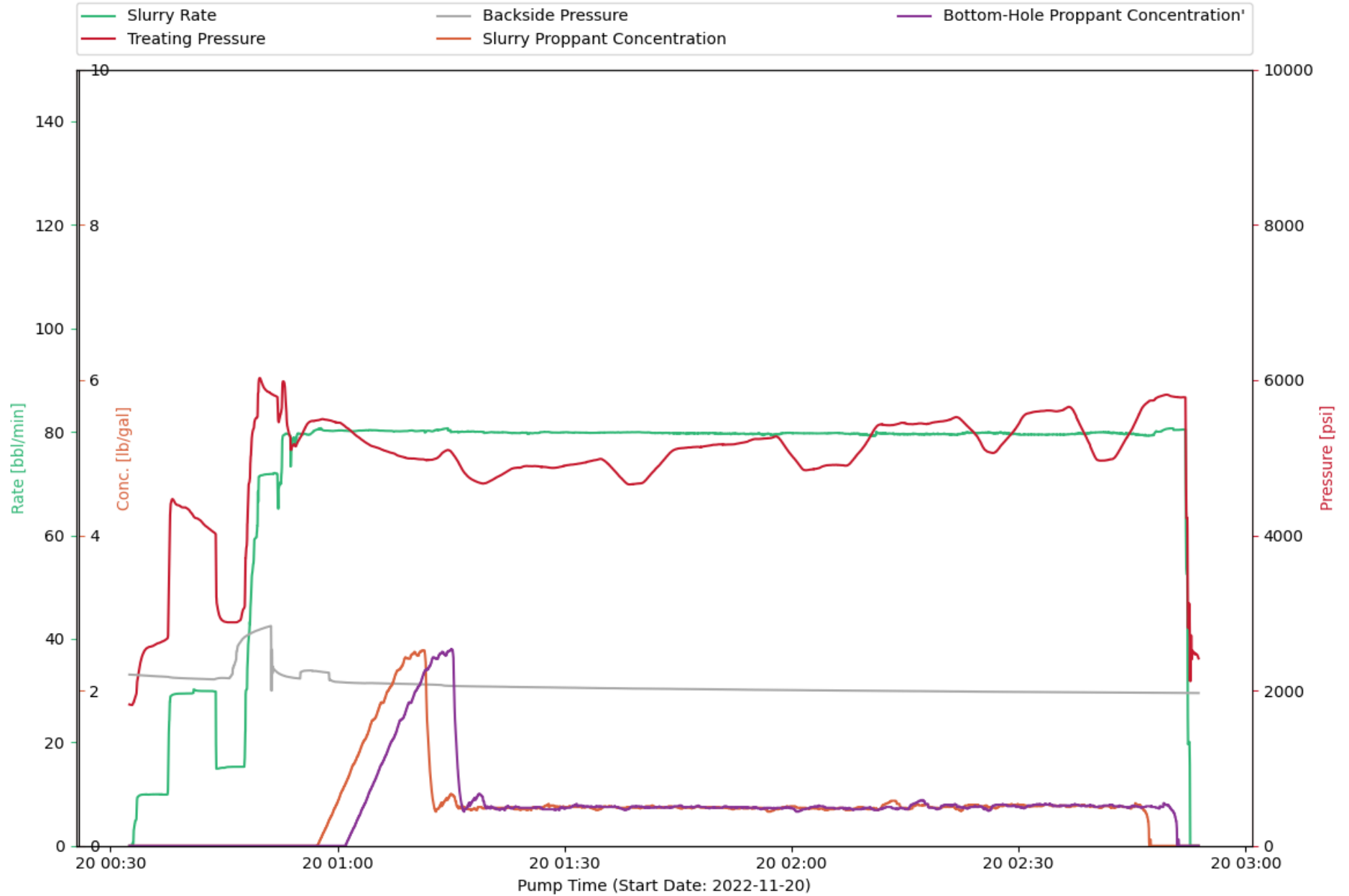
CHEMISTRY PLOT : Treatment Interval 23



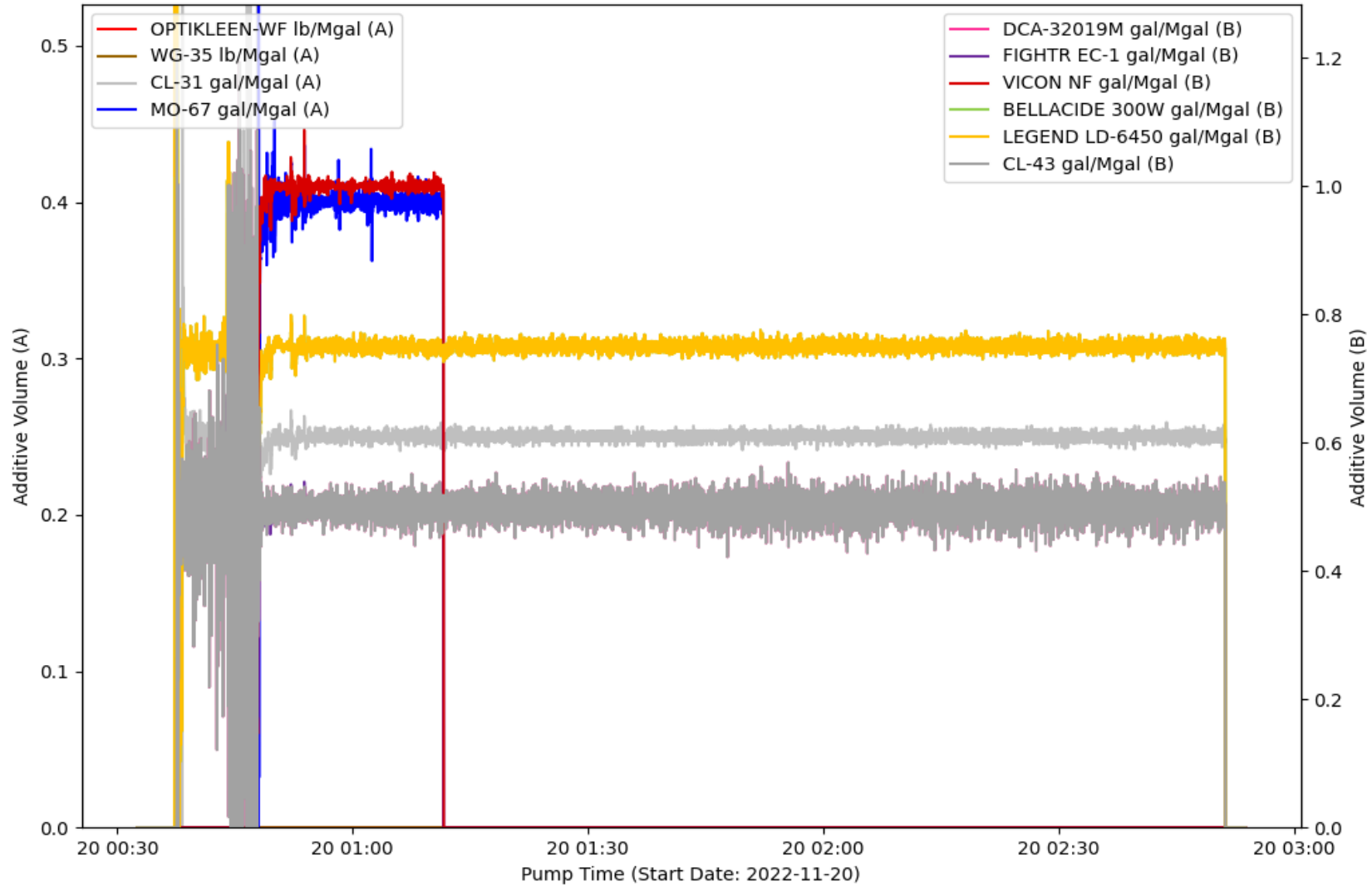
EVENT LOG : TREATMENT INTERVAL 23

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	2022-11-19T19:33:03	0	1815	0	0	0	0	0
2	Start Pumping	2022-11-19T19:35:47	0.95	1836	0	0	0.76	0.76	0
3	Pump Acid	2022-11-19T19:38:00	10.01	2671	0	0	801.53	801.54	0
4	Ball on Seat	2022-11-19T19:49:13	15.09	3029	0	0	11233	11233	0
5	Break Formation	2022-11-19T19:50:13	15.01	3662	0	0	11859	11859	0
6	Pump Xlink Pill	2022-11-19T19:57:55	80.23	5618	0	0	35561	35561	0
7	Stop Pumping	2022-11-19T21:42:48	16.57	2652	0	0	379452	389229	215446
8	ISIP	2022-11-19T21:42:54	0	2359	0	0	379467	389244	215446
9	Shut In Well	2022-11-19T21:43:52	0	2410	0	0	379467	389244	215446

TREATMENT PLOT : Treatment Interval 24



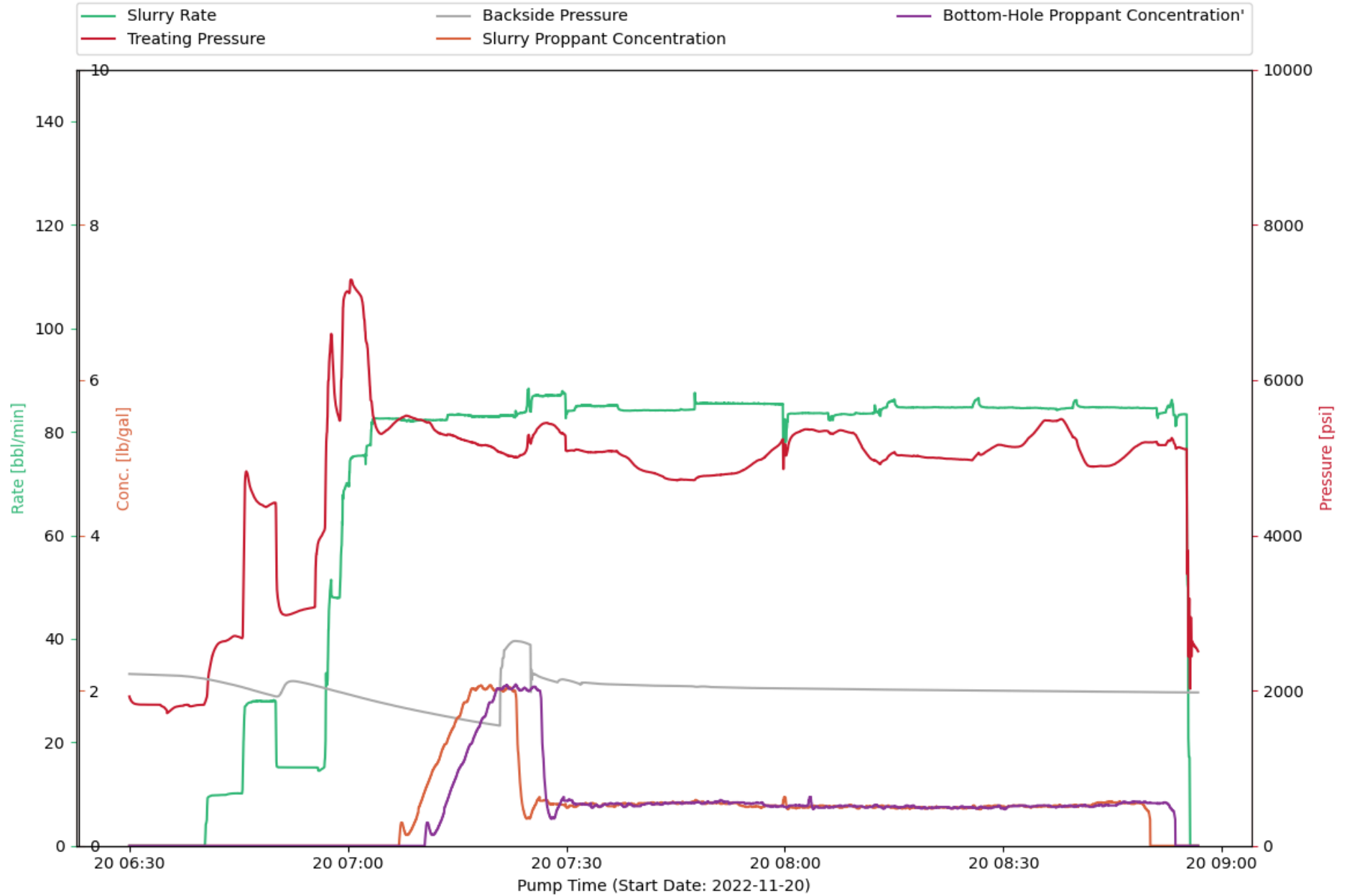
CHEMISTRY PLOT : Treatment Interval 24



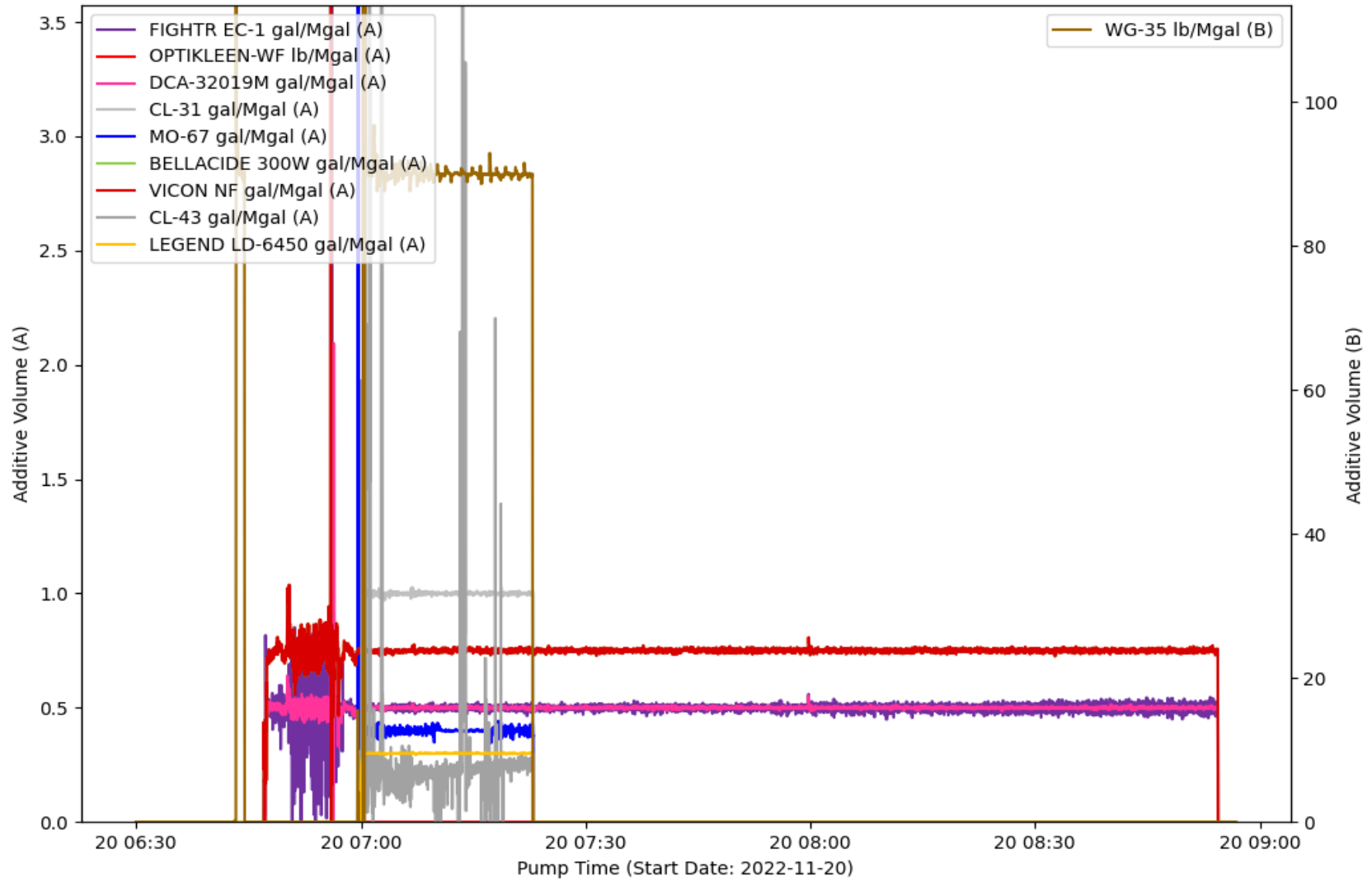
EVENT LOG : TREATMENT INTERVAL 24

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	2022-11-20T00:32:34	0	1819	0	0	0	0	0
2	Start Pumping	2022-11-20T00:32:58	0.53	1829	0	0	0.74	0.74	0
3	Pump Acid	2022-11-20T00:35:00	9.9	2556	0	0	701.64	701.62	0
4	Ball on Seat	2022-11-20T00:47:14	15.27	2916	0	0	11686	11686	0
5	Break Formation	2022-11-20T00:47:40	15.26	3061	0	0	11967	11967	0
6	Pump Xlink Pill	2022-11-20T00:55:30	79.67	5336	0	0	34365	34365	0
7	Stop Pumping	2022-11-20T02:52:39	3.35	2170	0	0	415813	425963	223608
8	ISIP	2022-11-20T02:52:43	0	2322	0	0	415813	425963	223608
9	Shut In Well	2022-11-20T02:53:44	0	2425	0	0	415813	425963	223608

TREATMENT PLOT : Treatment Interval 25



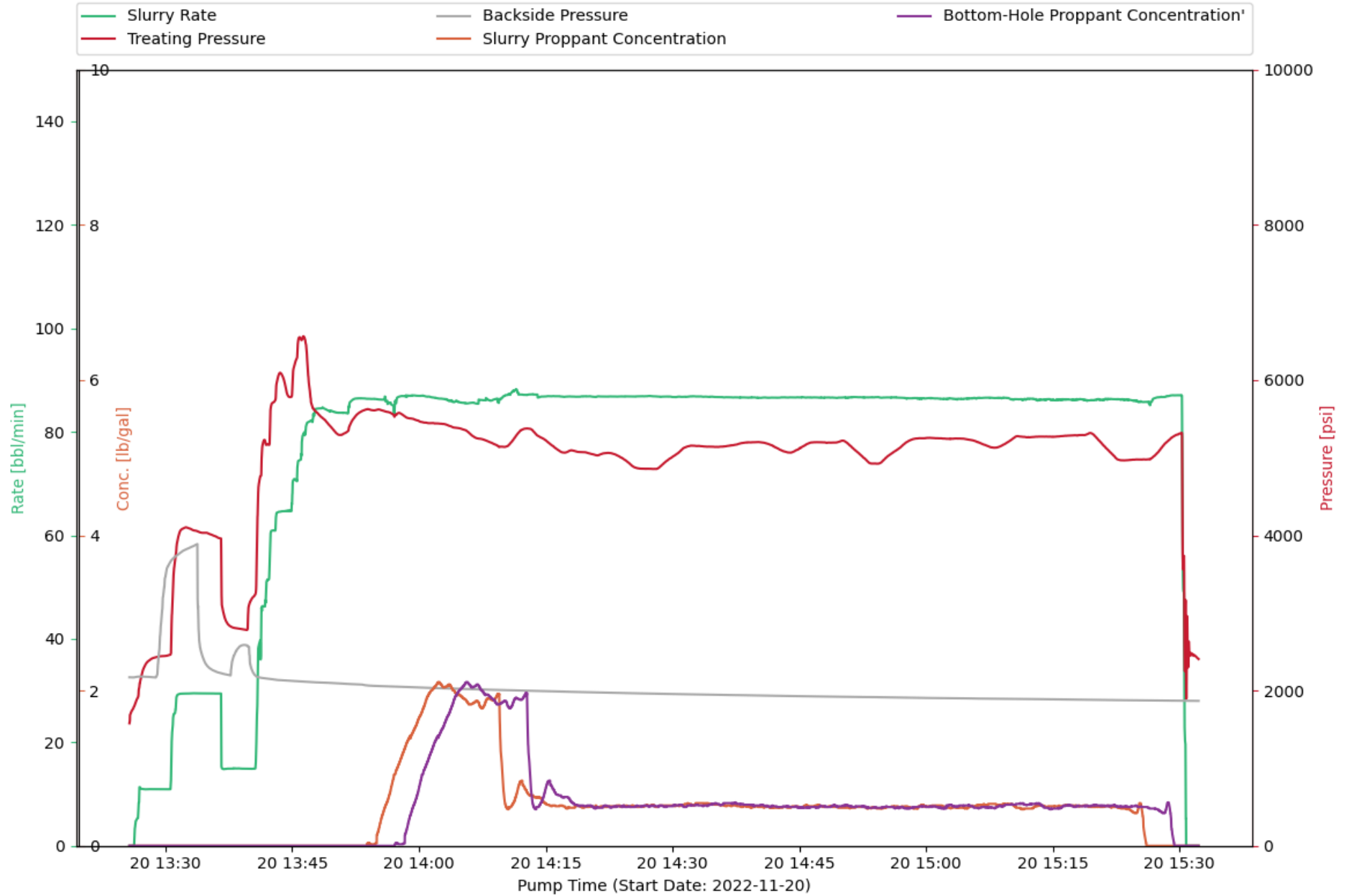
CHEMISTRY PLOT : Treatment Interval 25



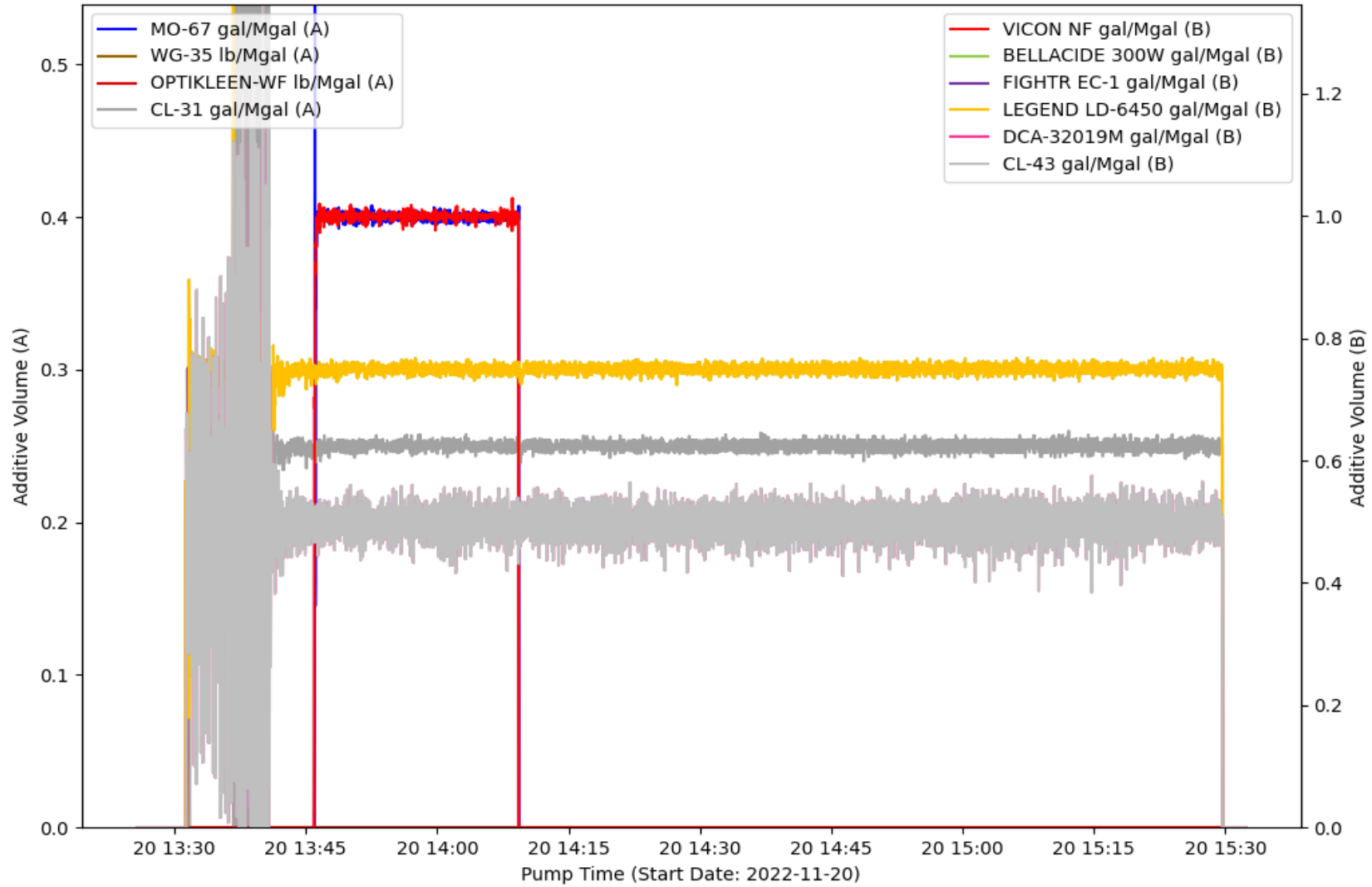
EVENT LOG : TREATMENT INTERVAL 25

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	2022-11-20T06:30:09	0	1882	0	0	0	0	0
2	Start Pumping	2022-11-20T06:30:28	0	1844	0	0	0	0	0
3	Pump Acid	2022-11-20T06:42:49	9.82	2632	0	0	924.63	924.63	0
4	Ball on Seat	2022-11-20T06:55:22	15.15	3071	0	0	10687	10687	0
5	Break Formation	2022-11-20T06:56:43	15.11	4054	0	0	11531	11531	0
6	Pump Xlink Pill	2022-11-20T07:03:11	80.05	5735	0	0	28500	28500	0
7	Stop Pumping	2022-11-20T08:55:33	17.15	3185	0	0	415117	425592	230795
8	ISIP	2022-11-20T08:55:41	0	2455	0	0	415148	425623	230795
9	Shut In Well	2022-11-20T08:56:43	0	2509	0	0	415148	425623	230795

TREATMENT PLOT : Treatment Interval 26



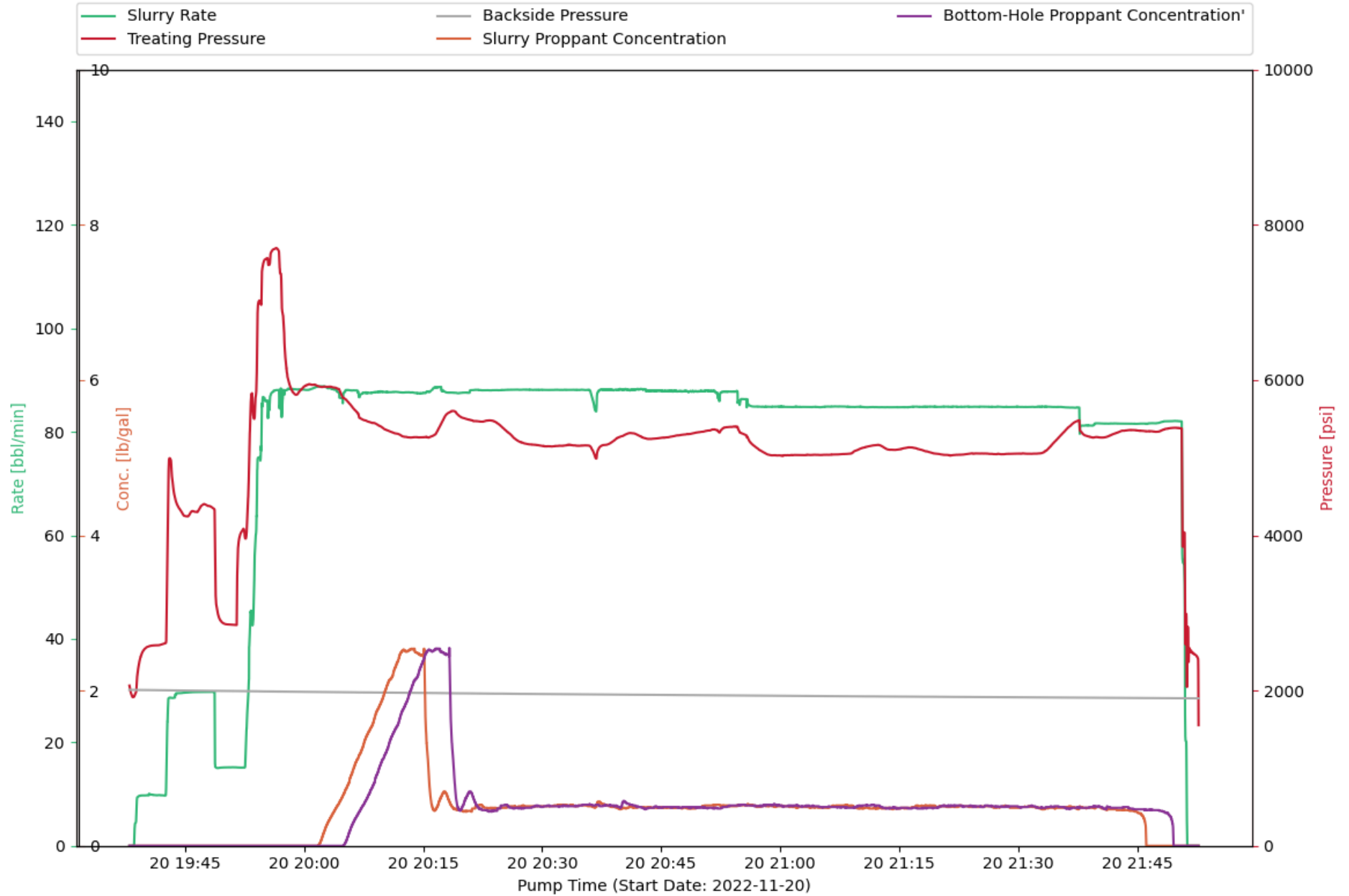
CHEMISTRY PLOT : Treatment Interval 26



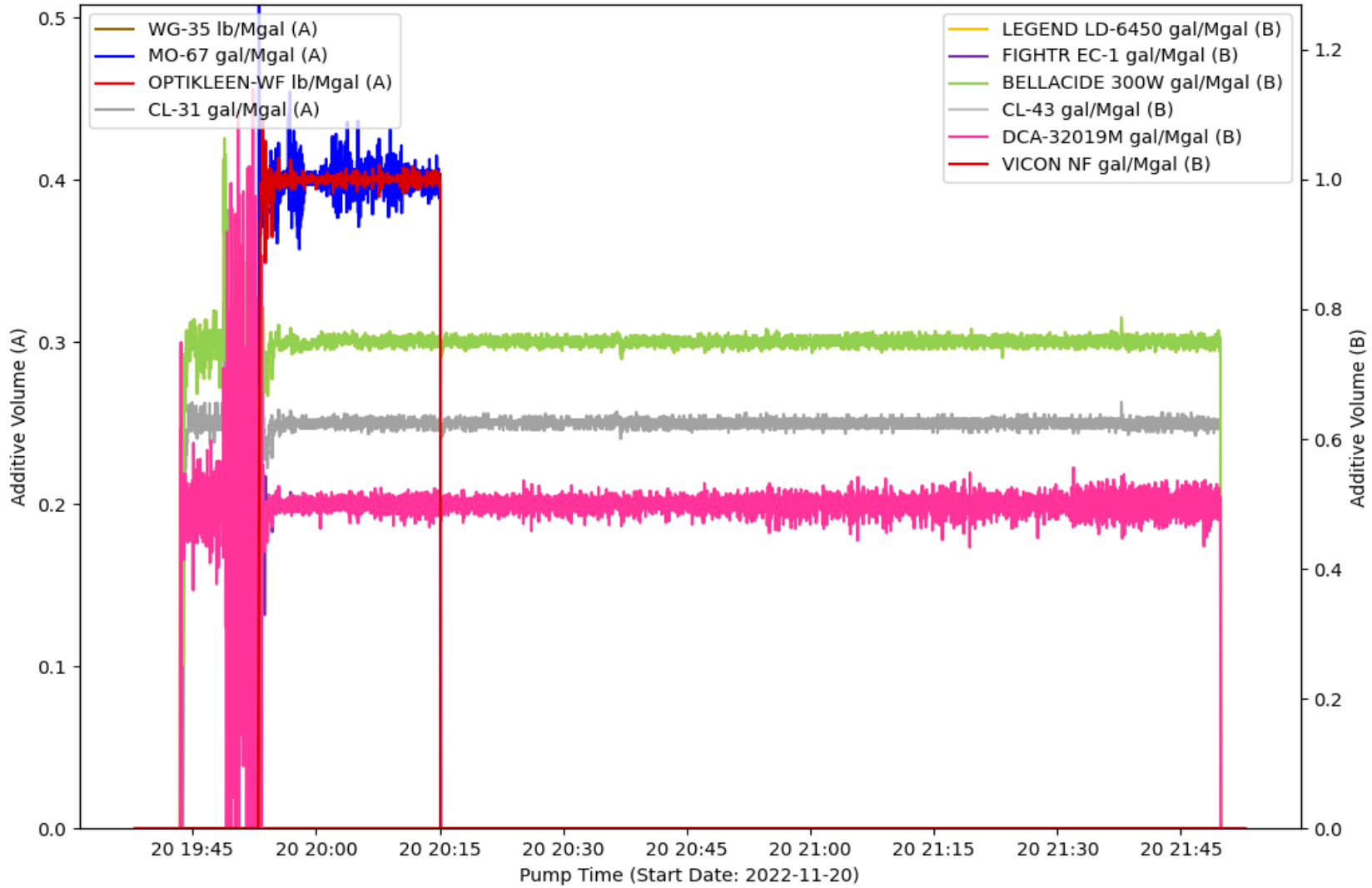
EVENT LOG : TREATMENT INTERVAL 26

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	2022-11-20T13:26:02	0	1742	0	0	0	0	0
2	Start Pumping	2022-11-20T13:26:09	0	1758	0	0	0	0	0
3	Pump Acid	2022-11-20T13:28:31	10.95	2419	0	0	877.13	877.17	0
4	Ball on Seat	2022-11-20T13:39:39	14.92	2780	0	0	10978	10978	0
5	Break Formation	2022-11-20T13:40:33	14.91	3223	0	0	11536	11536	0
6	Pump Xlink Pill	2022-11-20T13:49:31	83.99	5405	0	0	36949	36949	0
7	Stop Pumping	2022-11-20T15:30:46	5.21	2251	0	0	393860	403775	218439
8	ISIP	2022-11-20T15:30:50	0	2074	0	0	393860	403775	218439
9	Shut In Well	2022-11-20T15:31:58	0	2435	0	0	393860	403775	218439

TREATMENT PLOT : Treatment Interval 27



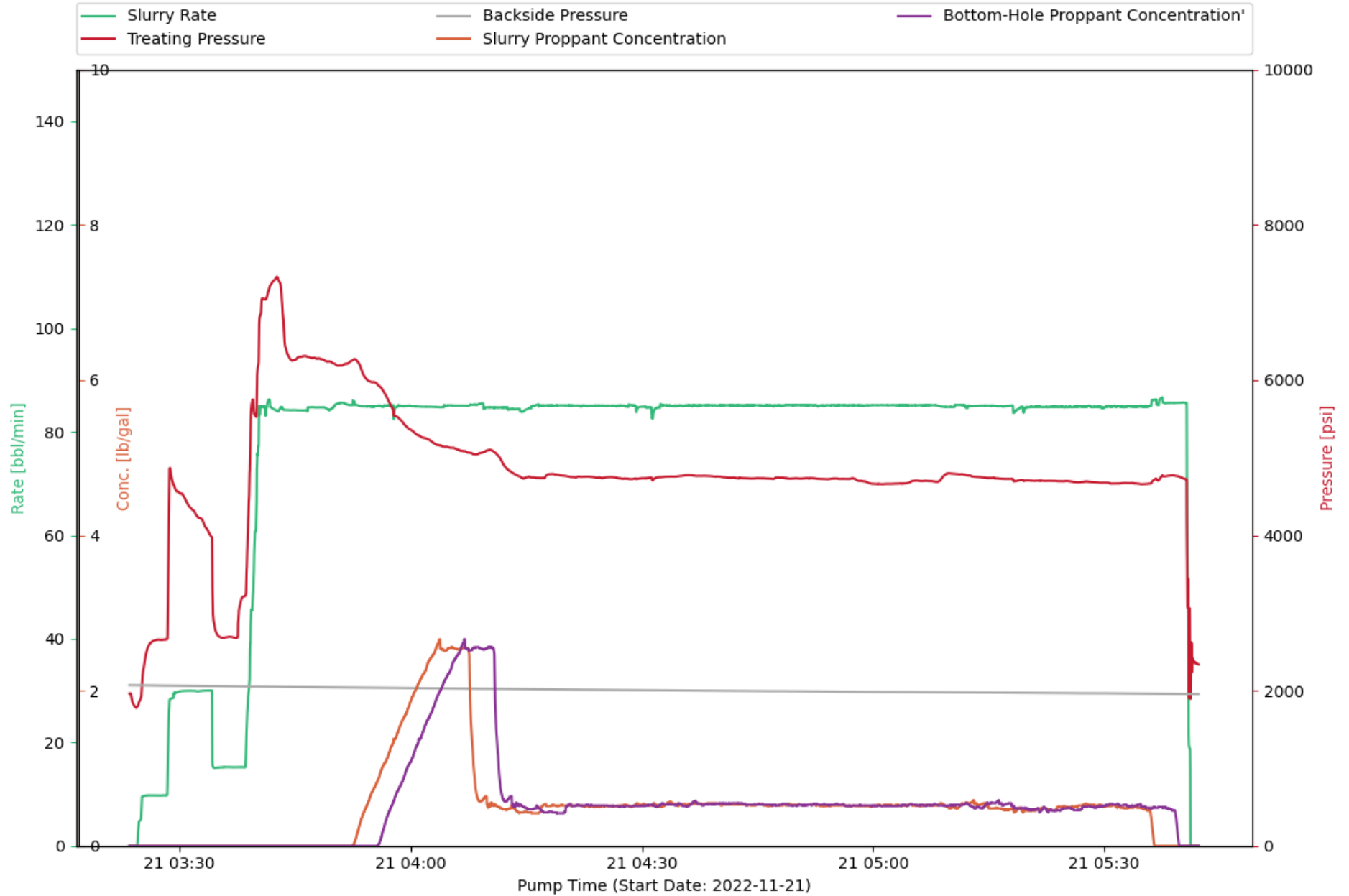
CHEMISTRY PLOT : Treatment Interval 27



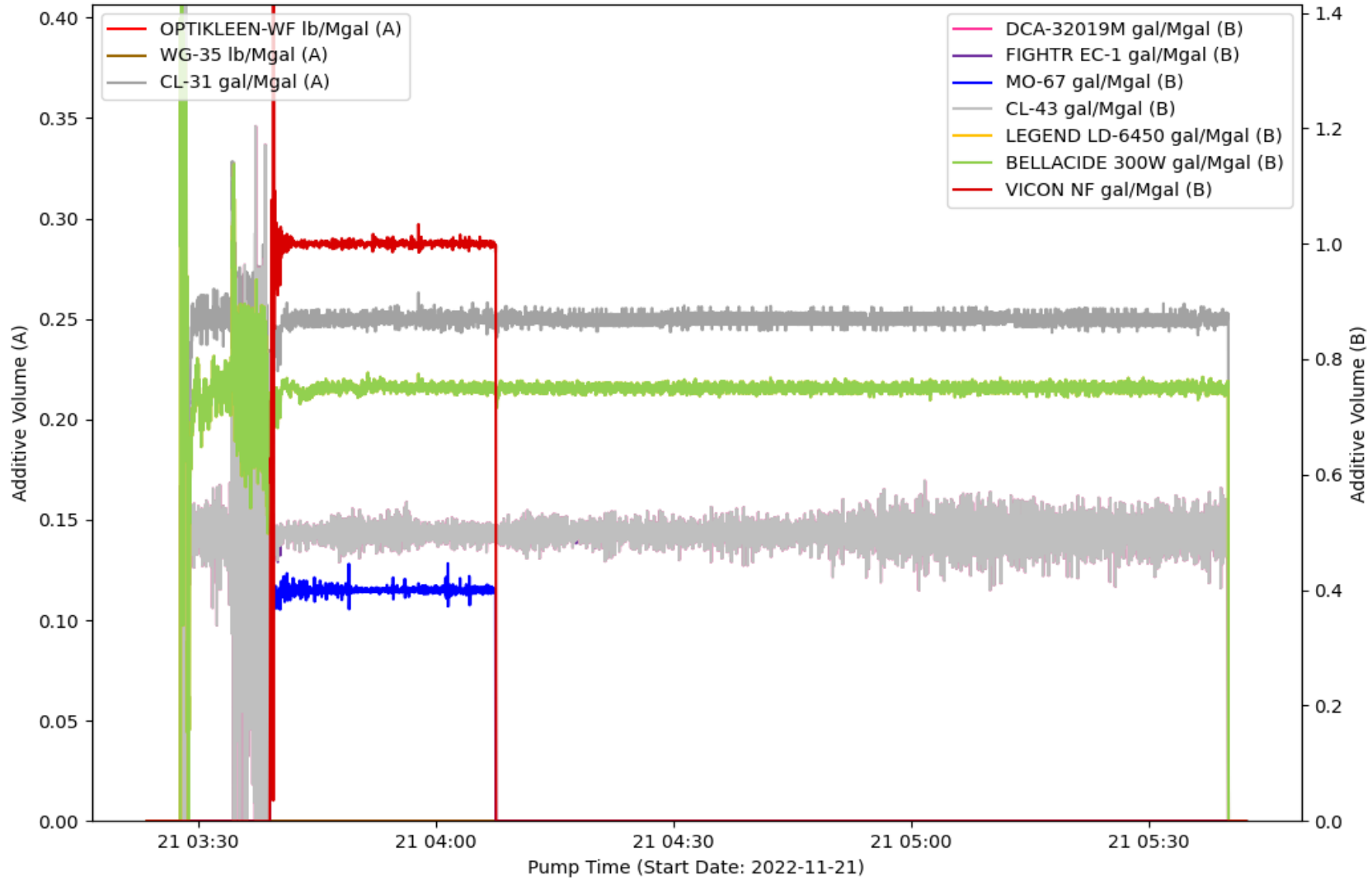
EVENT LOG : TREATMENT INTERVAL 27

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	2022-11-20T19:38:12	0	1964	0	0	0	0	0
2	Start Pumping	2022-11-20T19:38:33	0.06	1917	0	0	0.04	0.04	0
3	Pump Acid	2022-11-20T19:39:56	9.74	2538	0	0	474.83	474.84	0
4	Ball on Seat	2022-11-20T19:51:30	15.16	2843	0	0	10836	10837	0
5	Break Formation	2022-11-20T19:52:27	15.1	4065	0	0	11445	11445	0
6	Pump Xlink Pill	2022-11-20T20:01:46	88.75	5923	0	0	42126	42126	0
7	Stop Pumping	2022-11-20T21:51:15	8.58	2432	0	0	425831	436259	229728
8	ISIP	2022-11-20T21:51:20	0	2341	0	0	425843	436270	229728
9	Shut In Well	2022-11-20T21:52:24	0	2456	0	0	425843	436270	229728

TREATMENT PLOT : Treatment Interval 28



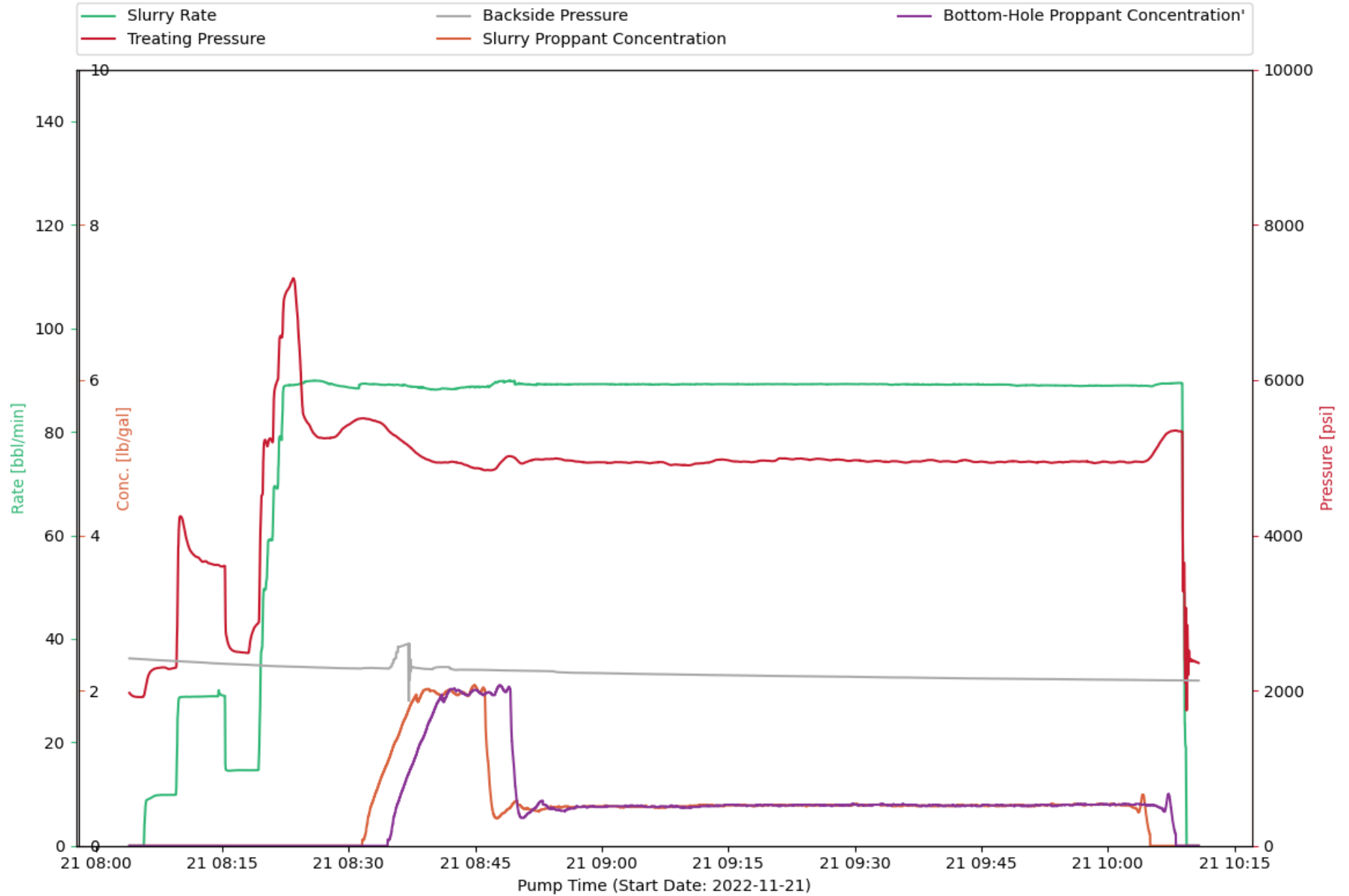
CHEMISTRY PLOT : Treatment Interval 28



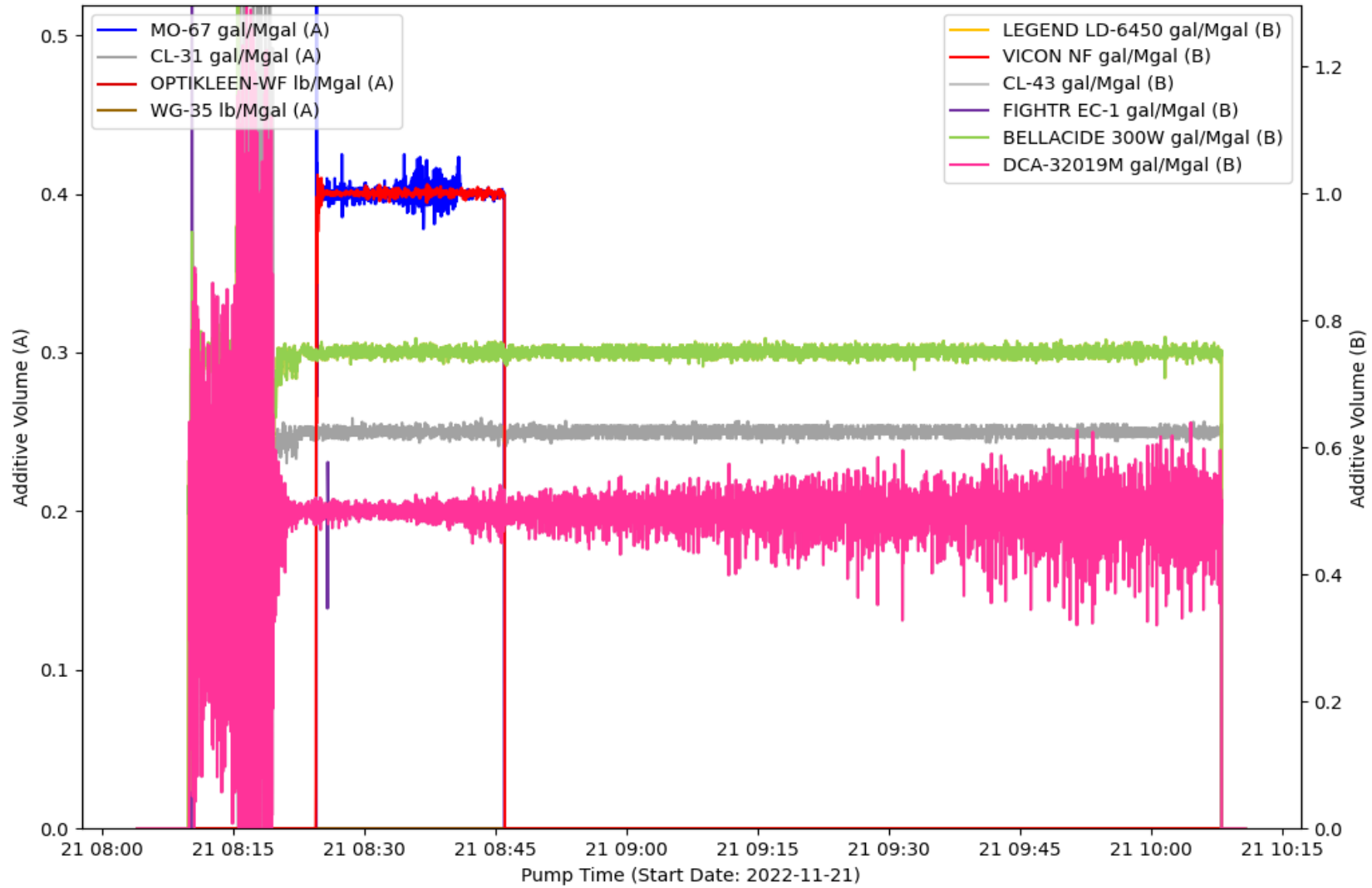
EVENT LOG : TREATMENT INTERVAL 28

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	2022-11-21T03:23:57	0	1839	0	0	0	0	0
2	Start Pumping	2022-11-21T03:24:33	0.8	1797	0	0	0.81	0.81	0
3	Pump Acid	2022-11-21T03:25:54	9.74	2559	0	0	439.53	439.52	0
4	Ball on Seat	2022-11-21T03:37:28	15.21	2682	0	0	10705	10705	0
5	Break Formation	2022-11-21T03:38:28	15.18	3217	0	0	11339	11340	0
6	Pump Xlink Pill	2022-11-21T03:51:14	85.6	6196	0	0	53729	53729	0
7	Stop Pumping	2022-11-21T05:41:08	18.81	2703	0	0	434263	445328	243787
8	ISIP	2022-11-21T05:41:15	0	2080	0	0	434304	445369	243787
9	Shut In Well	2022-11-21T05:41:59	0	2348	0	0	434304	445369	243787

TREATMENT PLOT : Treatment Interval 29



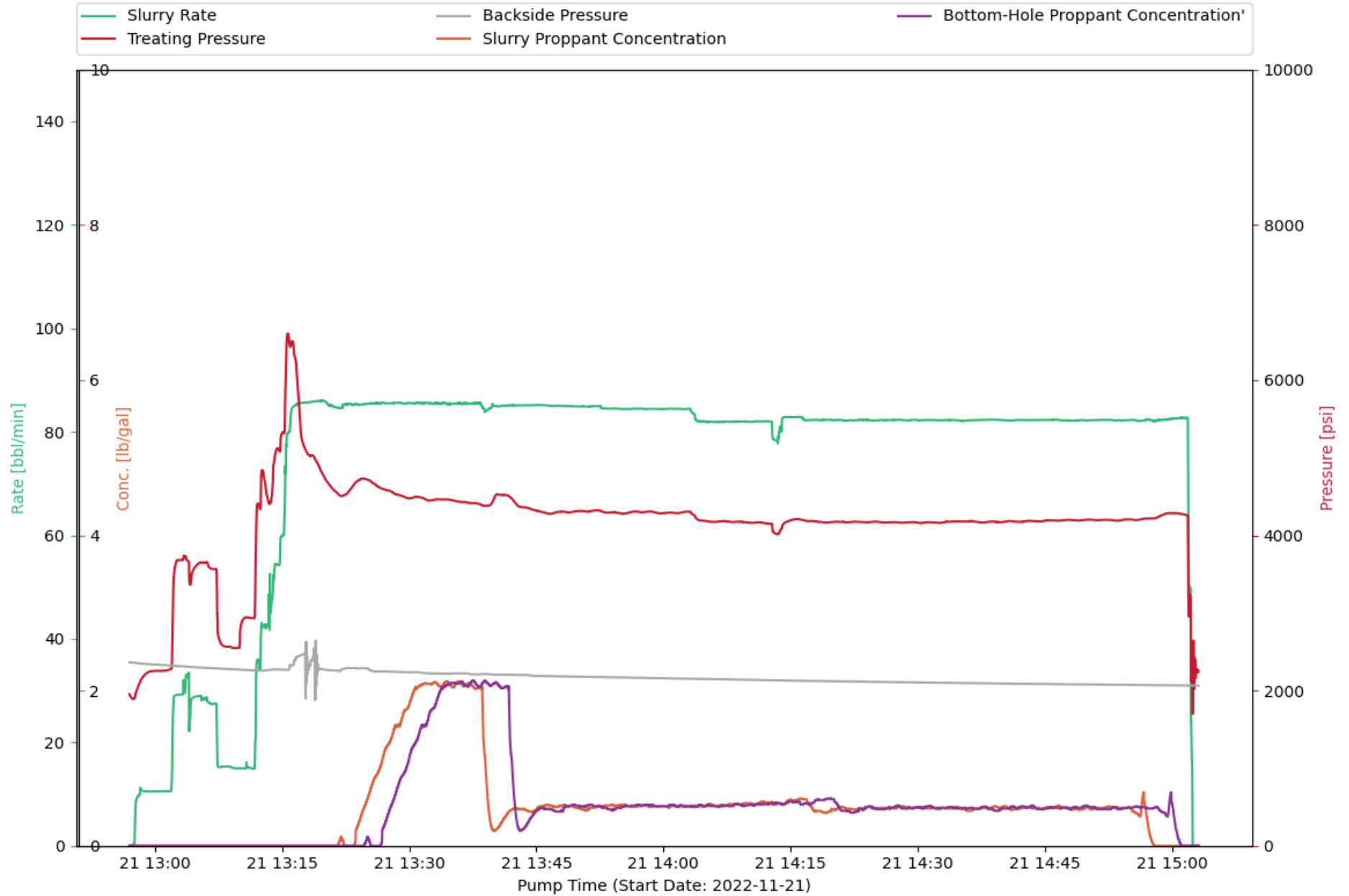
CHEMISTRY PLOT : Treatment Interval 29



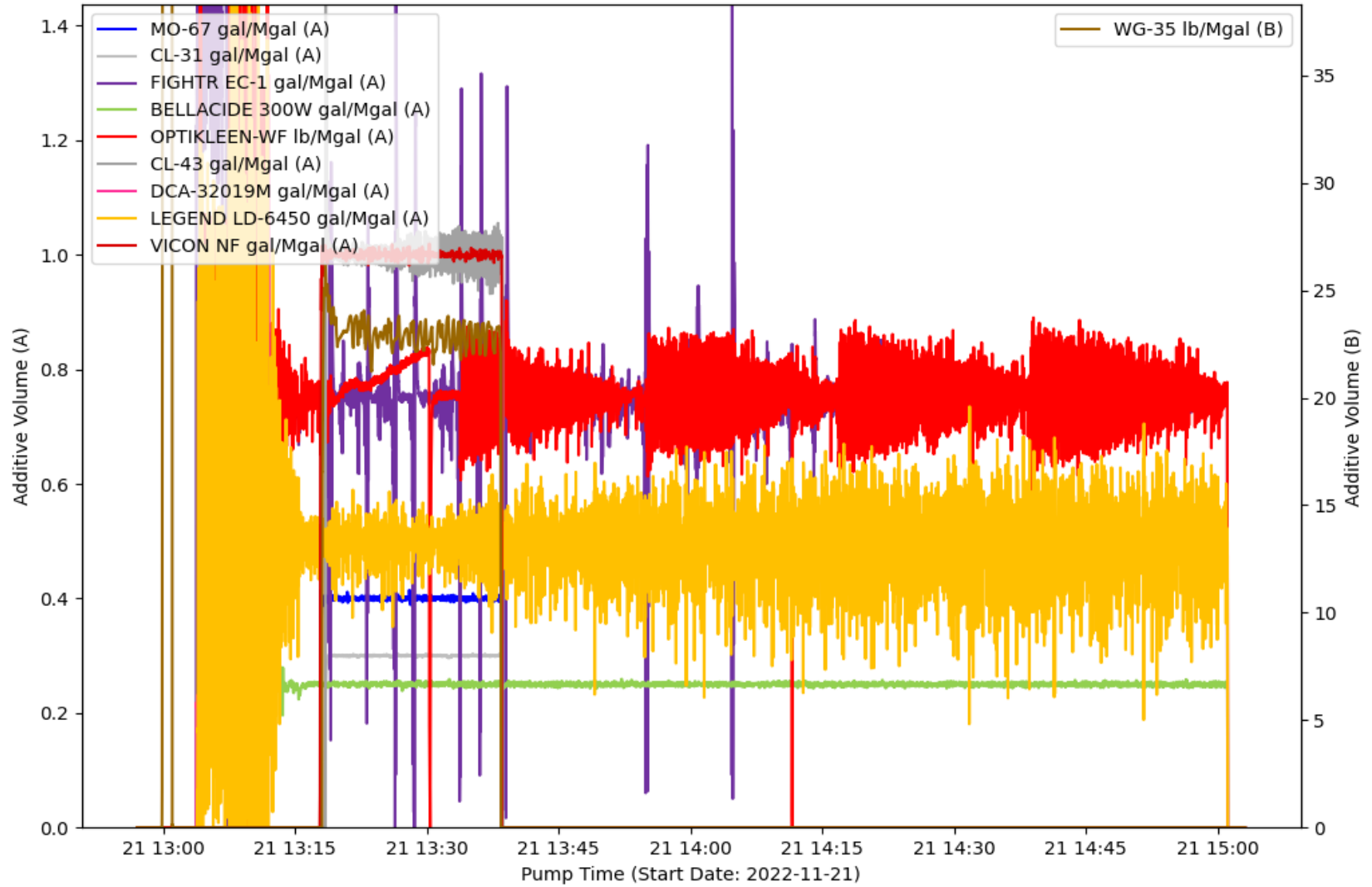
EVENT LOG : TREATMENT INTERVAL 29

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	Open Well	2022-11-21T08:04:32	0	1924	0	0	0	0	0
2	Start Pumping	2022-11-21T08:05:28	0	1914	0	0	0	0	0
3	Pump Acid	2022-11-21T08:07:07	9.71	2285	0	0	516.57	516.6	0
4	Break Formation	2022-11-21T08:18:27	14.6	2704	0	0	10367	10367	0
5	Ball on Seat	2022-11-21T08:18:48	14.6	2810	0	0	10583	10583	0
6	Pump Xlink Pill	2022-11-21T08:27:46	89.22	5254	0	0	38949	38949	0
7	Stop Pumping	2022-11-21T10:09:16	14.97	2935	0	0	407387	417784	229032
8	ISIP	2022-11-21T10:09:22	0	2008	0	0	407401	417797	229032
9	Shut In Well	2022-11-21T10:10:11	0	2377	0	0	407401	417797	229032

TREATMENT PLOT : Treatment Interval 30



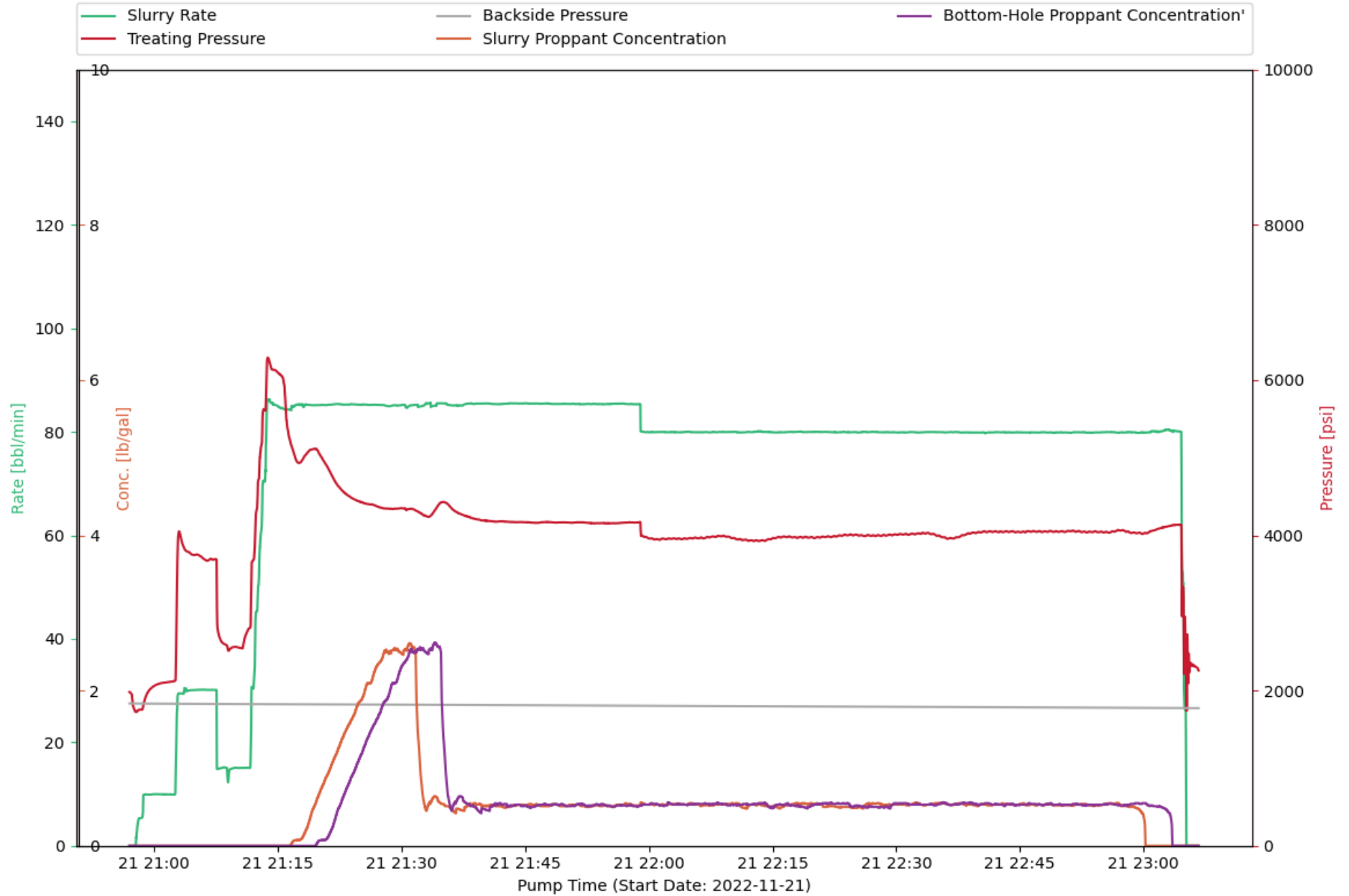
CHEMISTRY PLOT : Treatment Interval 30



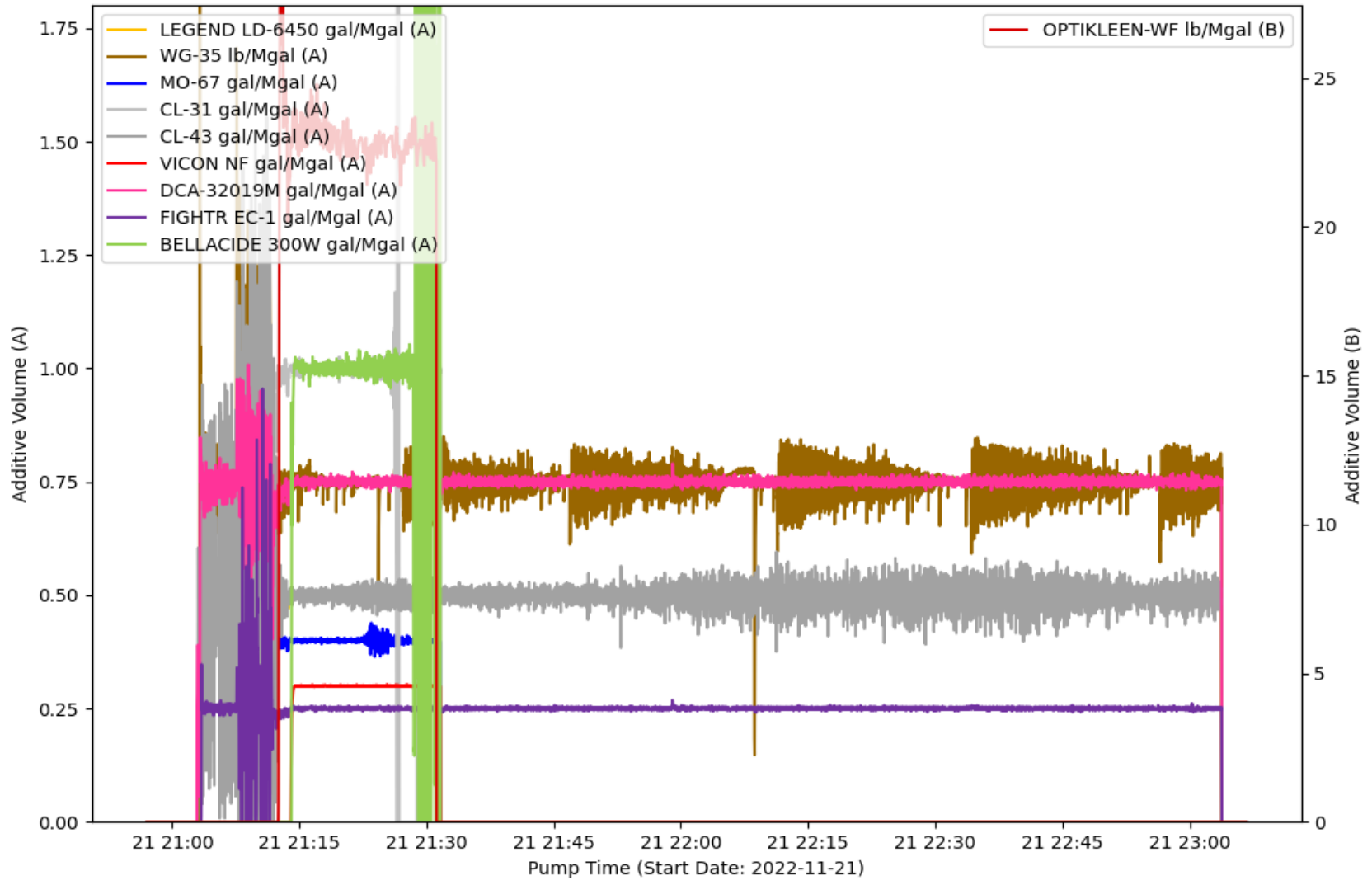
EVENT LOG : TREATMENT INTERVAL 30

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	Start Avg Trt 30	2022-11-21T12:57:21	0	1897	0	0	0	0	0
2	Open Well	2022-11-21T12:57:28	0	1890	0	0	0.02	0.02	0
3	Start Pumping	2022-11-21T12:57:33	0.07	1904	0	0	0.94	0.94	0
4	Pump Acid	2022-11-21T12:59:35	10.48	2249	0	0	825.37	825.37	0
5	Ball on Seat	2022-11-21T13:09:55	14.98	2550	0	0	9938	9938	0
6	Break Formation	2022-11-21T13:11:18	15.04	2937	0	0	10812	10812	0
7	Pump Xlink Pill	2022-11-21T13:19:29	85.94	4855	0	0	32818	32818	0
8	Stop Pumping	2022-11-21T15:02:24	6.54	1977	0	0	382663	392435	215282
9	ISIP	2022-11-21T15:02:27	0	1745	0	0	382665	392437	215282
10	Shut In Well	2022-11-21T15:03:06	0	2242	0	0	382665	392437	215282

TREATMENT PLOT : Treatment Interval 31



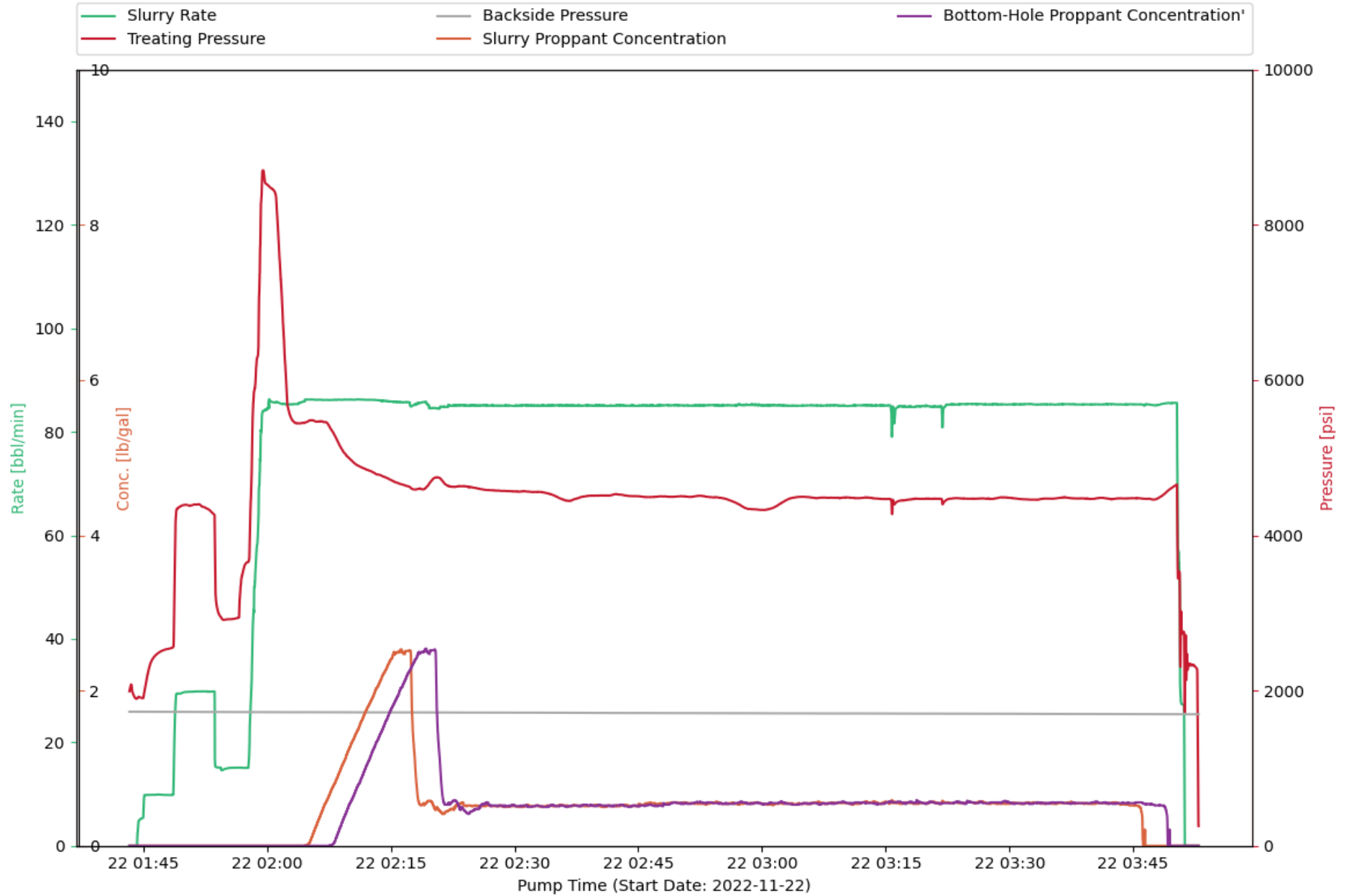
CHEMISTRY PLOT : Treatment Interval 31



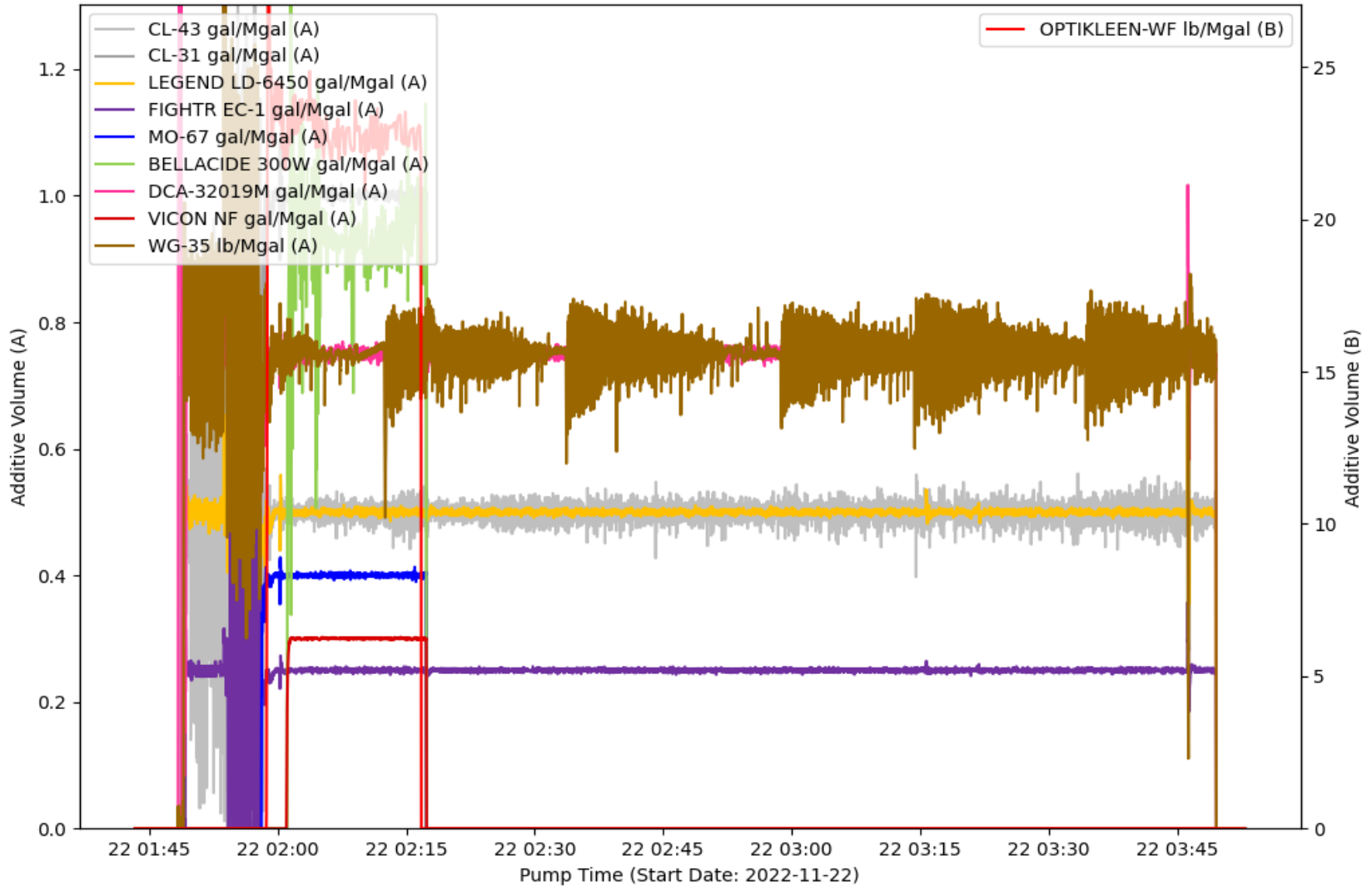
EVENT LOG : TREATMENT INTERVAL 31

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	2022-11-21T20:57:28	0	1795	0	0	0	0	0
2	Start Pumping	2022-11-21T20:57:44	0	1726	0	0	0	0	0
3	Pump Acid	2022-11-21T20:59:59	9.97	2060	0	0	732.13	732.12	0
4	Ball on Seat	2022-11-21T21:10:43	15.06	2544	0	0	9991	9991	0
5	Break Formation	2022-11-21T21:11:35	15.07	2806	0	0	10535	10535	0
6	Pump Xlink Pill	2022-11-21T21:15:15	84.67	6074	0	0	20633	20633	0
7	Stop Pumping	2022-11-21T23:05:11	0	1913	0	0	387902	398503	233535
8	ISIP	2022-11-21T23:05:15	0	2158	0	0	387902	398503	233535
9	Shut In Well	2022-11-21T23:06:15	0	2308	0	0	387902	398503	233535

TREATMENT PLOT : Treatment Interval 32



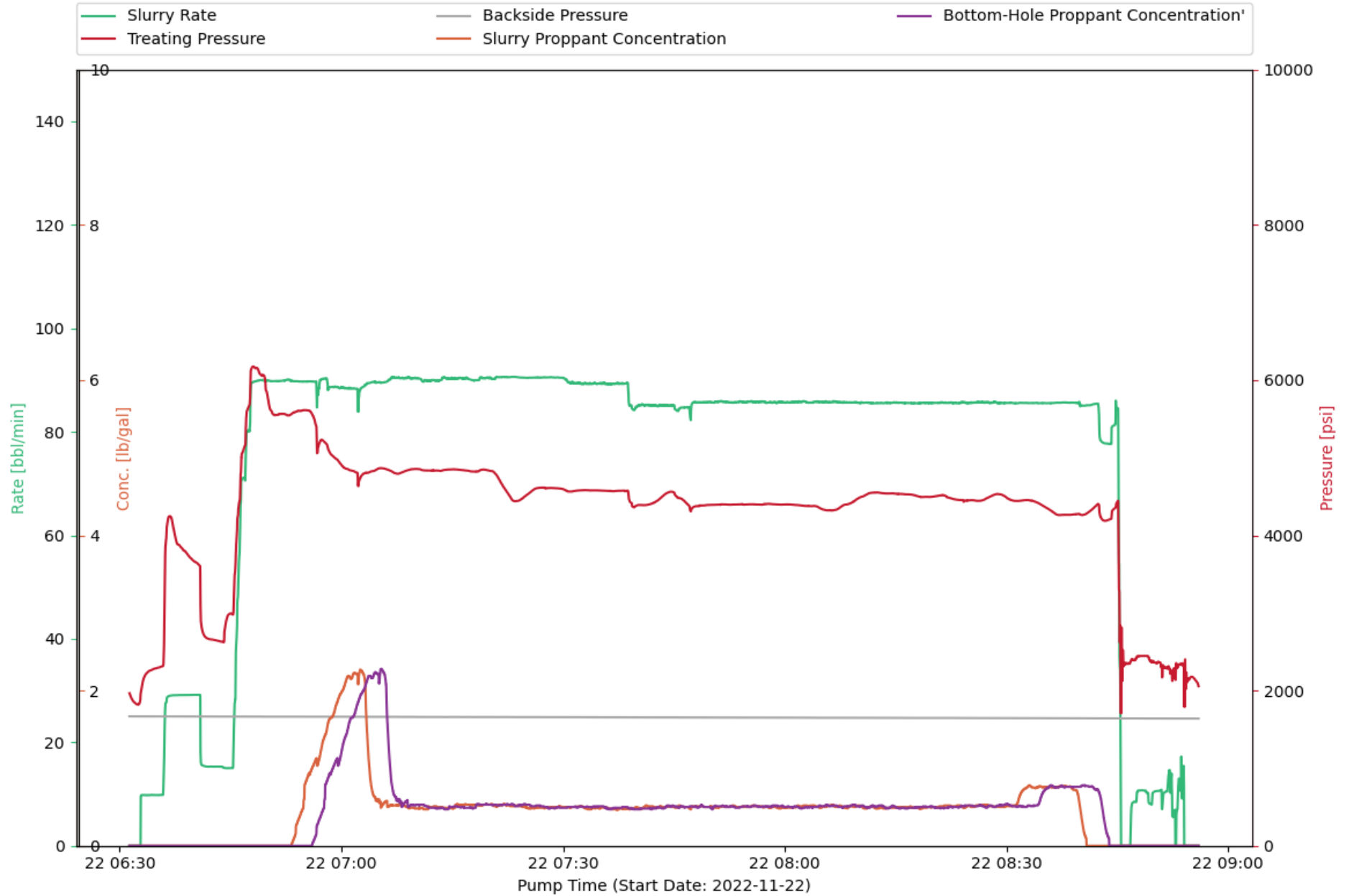
CHEMISTRY PLOT : Treatment Interval 32



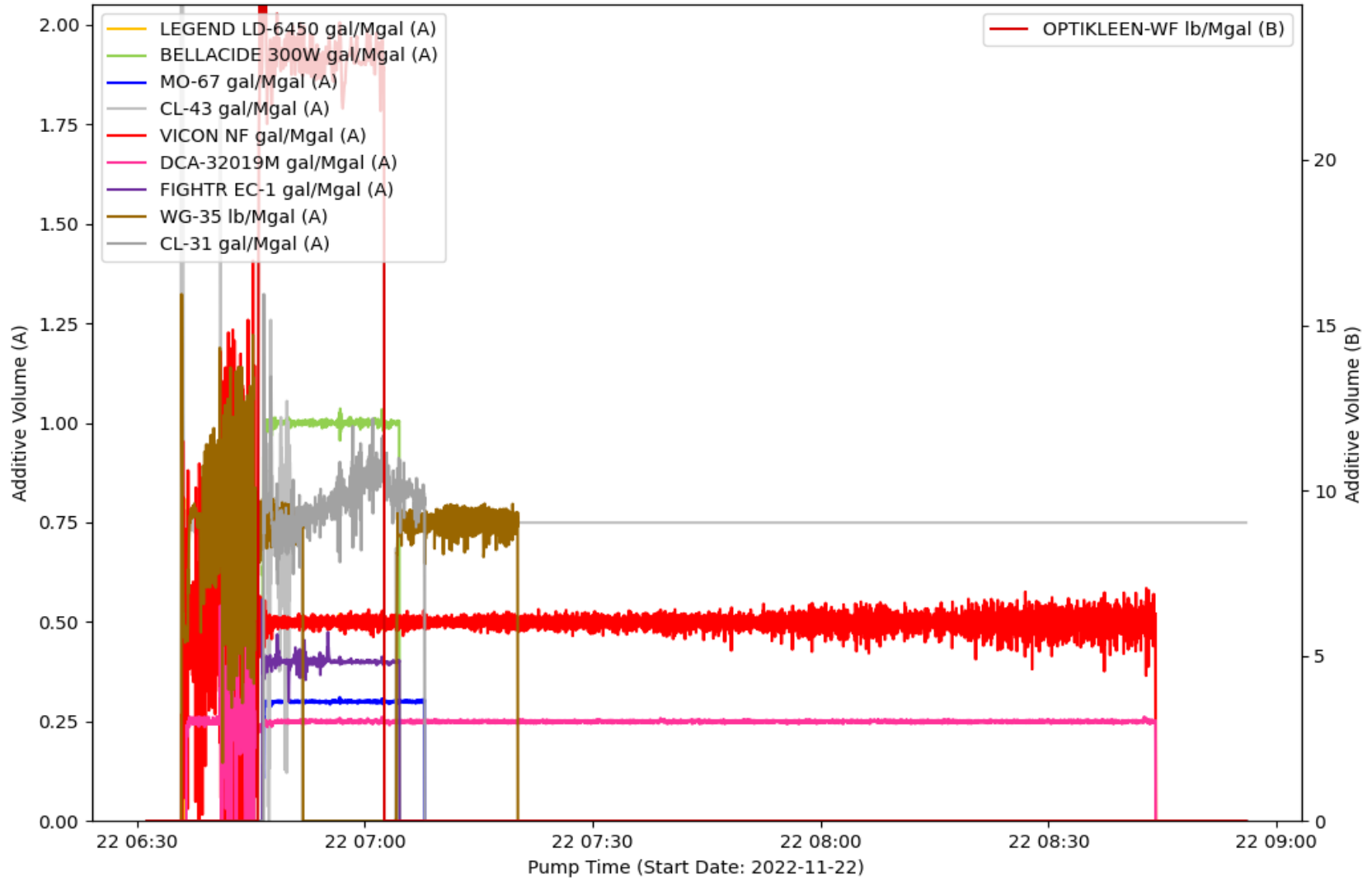
EVENT LOG : TREATMENT INTERVAL 32

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	2022-11-22T01:43:41	0	1984	0	0	0	0	0
2	Start Pumping	2022-11-22T01:44:14	0	1901	0	0	0	0	0
3	Pump Acid	2022-11-22T01:46:01	9.86	2385	0	0	558.06	558.04	0
4	Ball on Seat	2022-11-22T01:56:35	15.11	2939	0	0	9653	9653	0
5	Break Formation	2022-11-22T01:57:42	15.05	3654	0	0	10357	10357	0
6	Pump Xlink Pill	2022-11-22T02:03:01	85.3	5491	0	0	26885	26885	0
7	Stop Pumping	2022-11-22T03:51:14	0	1769	0	0	402106	412527	229583
8	ISIP	2022-11-22T03:51:27	0	2203	0	0	402106	412527	229583
9	Shut In Well	2022-11-22T03:52:27	0	2314	0	0	402106	412527	229583

TREATMENT PLOT : Treatment Interval 33



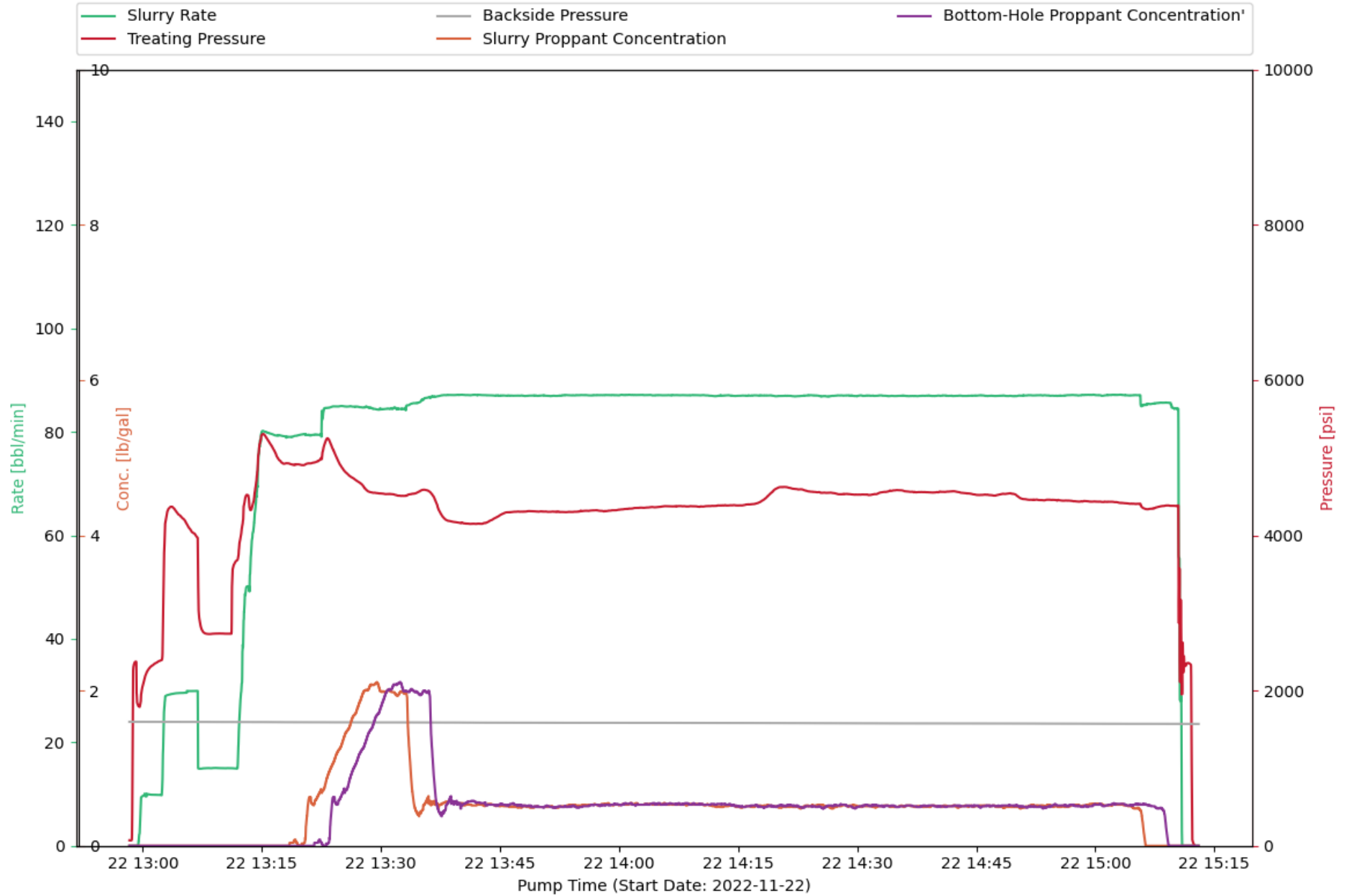
CHEMISTRY PLOT : Treatment Interval 33



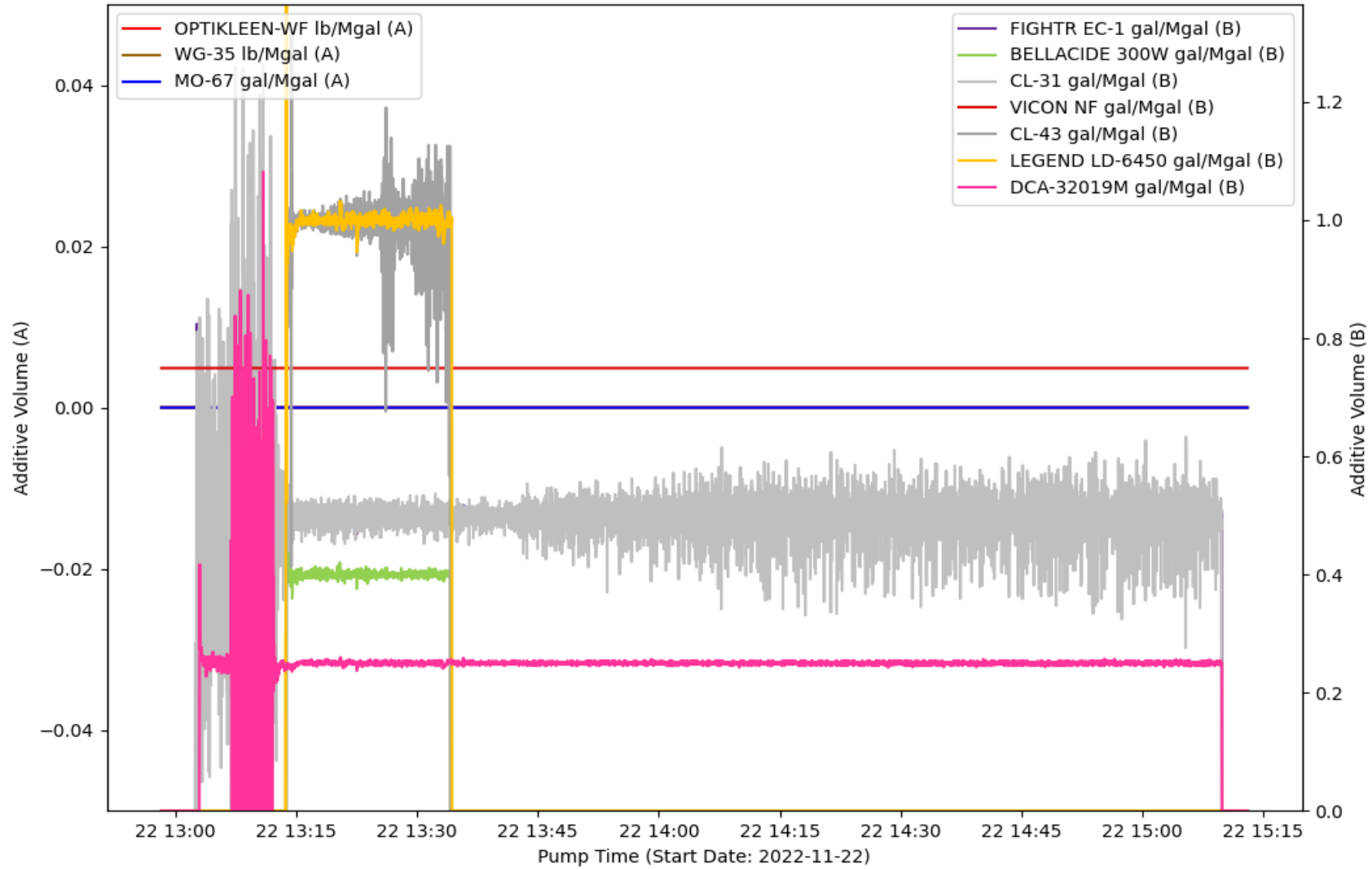
EVENT LOG : TREATMENT INTERVAL 33

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	2022-11-22T06:32:19	0	1822	0	0	0	0	0
2	Start Pumping	2022-11-22T06:32:48	0	1926	0	0	0	0	0
3	Pump Acid	2022-11-22T06:34:21	9.84	2267	0	0	629.77	629.77	0
4	Ball on Seat	2022-11-22T06:44:06	15.09	2625	0	0	9337	9337	0
5	Break Formation	2022-11-22T06:45:01	15	2994	0	0	9910	9910	0
6	Pump Xlink Pill	2022-11-22T06:46:36	71.03	5063	0	0	12585	12585	0
7	Stop Pumping	2022-11-22T08:45:30	0.01	1706	0	0	436619	447226	233735
8	ISIP	2022-11-22T08:45:32	0	2203	0	0	436619	447226	233735
9	Shut In Well	2022-11-22T08:55:00	0	2177	0	0	439601	450208	233735

TREATMENT PLOT : Treatment Interval 34



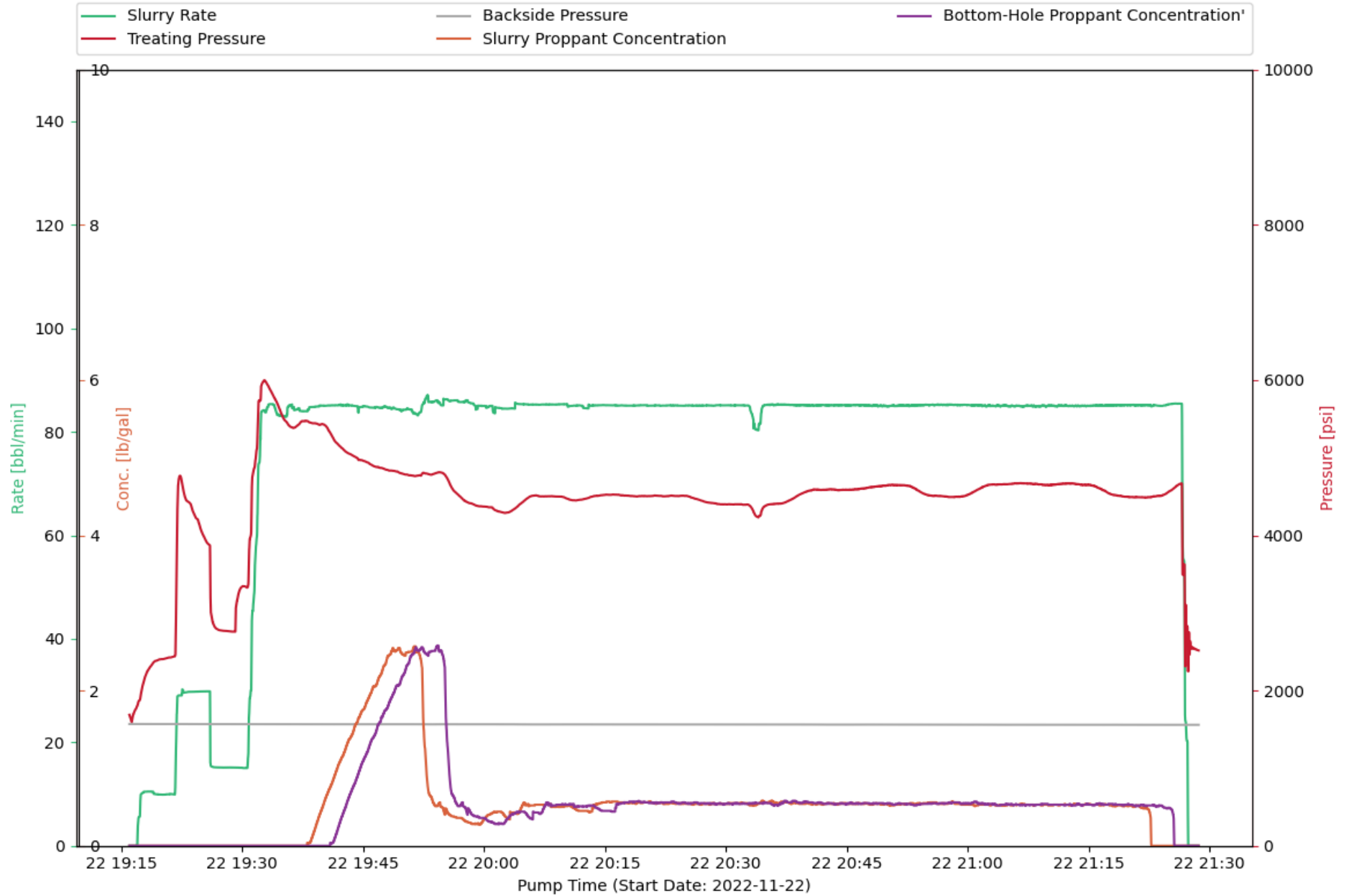
CHEMISTRY PLOT : Treatment Interval 34



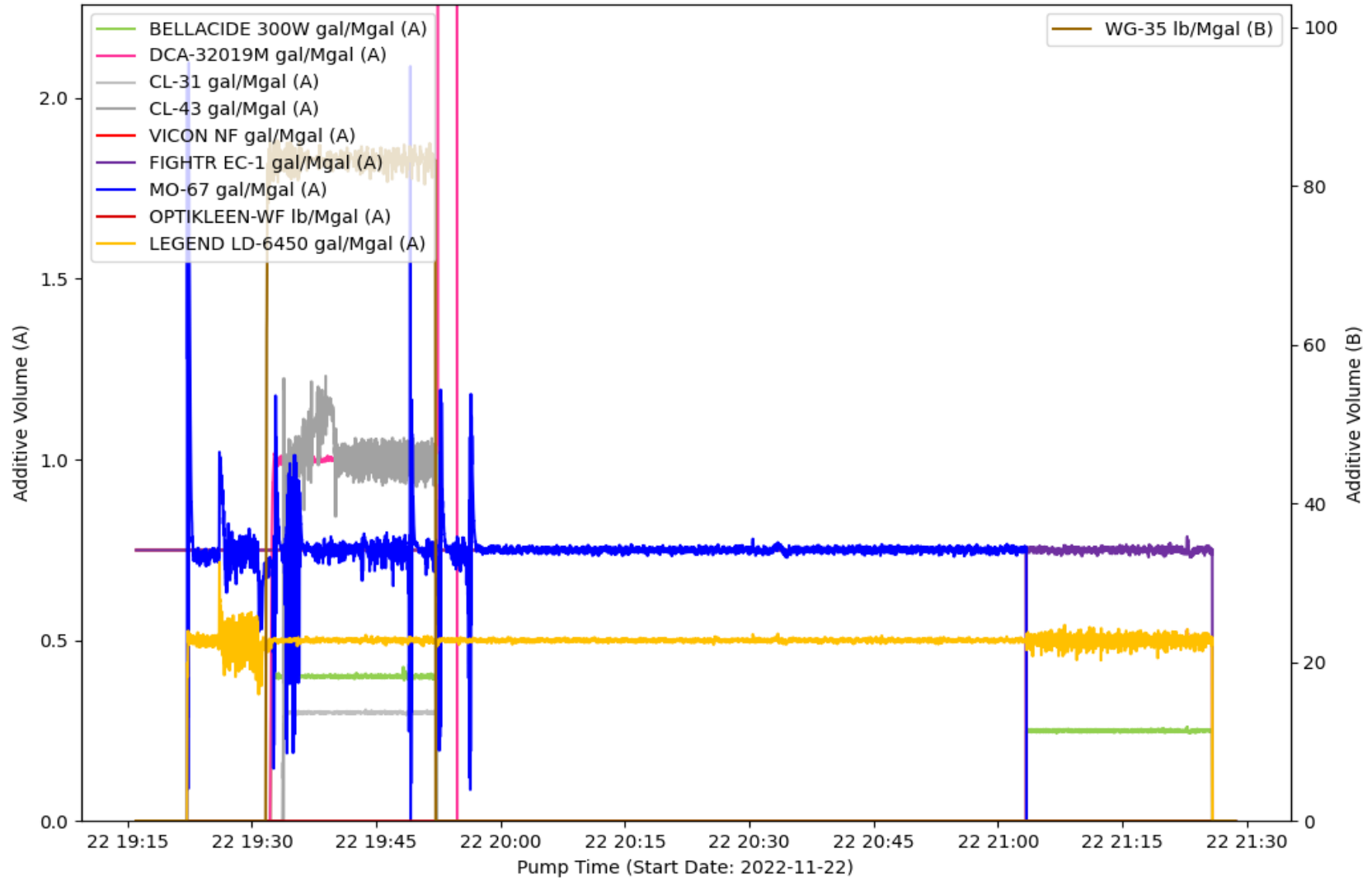
EVENT LOG : TREATMENT INTERVAL 34

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	Start Avg Trt 34	2022-11-22T12:59:04	0	2372	0	0	0	0	0
2	Open Well	2022-11-22T12:59:19	0	1831	0	0	0	0	0
3	Start Pumping	2022-11-22T12:59:24	0	1808	0	0	0	0	0
4	Pump Acid	2022-11-22T13:01:27	9.87	2344	0	0	749.16	749.19	0
5	Ball on Seat	2022-11-22T13:11:08	15	2732	0	0	9272	9272	0
6	Break Formation	2022-11-22T13:11:44	14.94	3668	0	0	9643	9643	0
7	Pump Xlink Pill	2022-11-22T13:13:41	57.71	4335	0	0	12776	12776	0
8	Stop Pumping	2022-11-22T15:10:56	0.78	1953	0	0	424653	435368	236030
9	ISIP	2022-11-22T15:10:57	0	2030	0	0	424653	435368	236030
10	Shut In Well	2022-11-22T15:12:01	0	2336	0	0	424653	435368	236030

TREATMENT PLOT : Treatment Interval 35



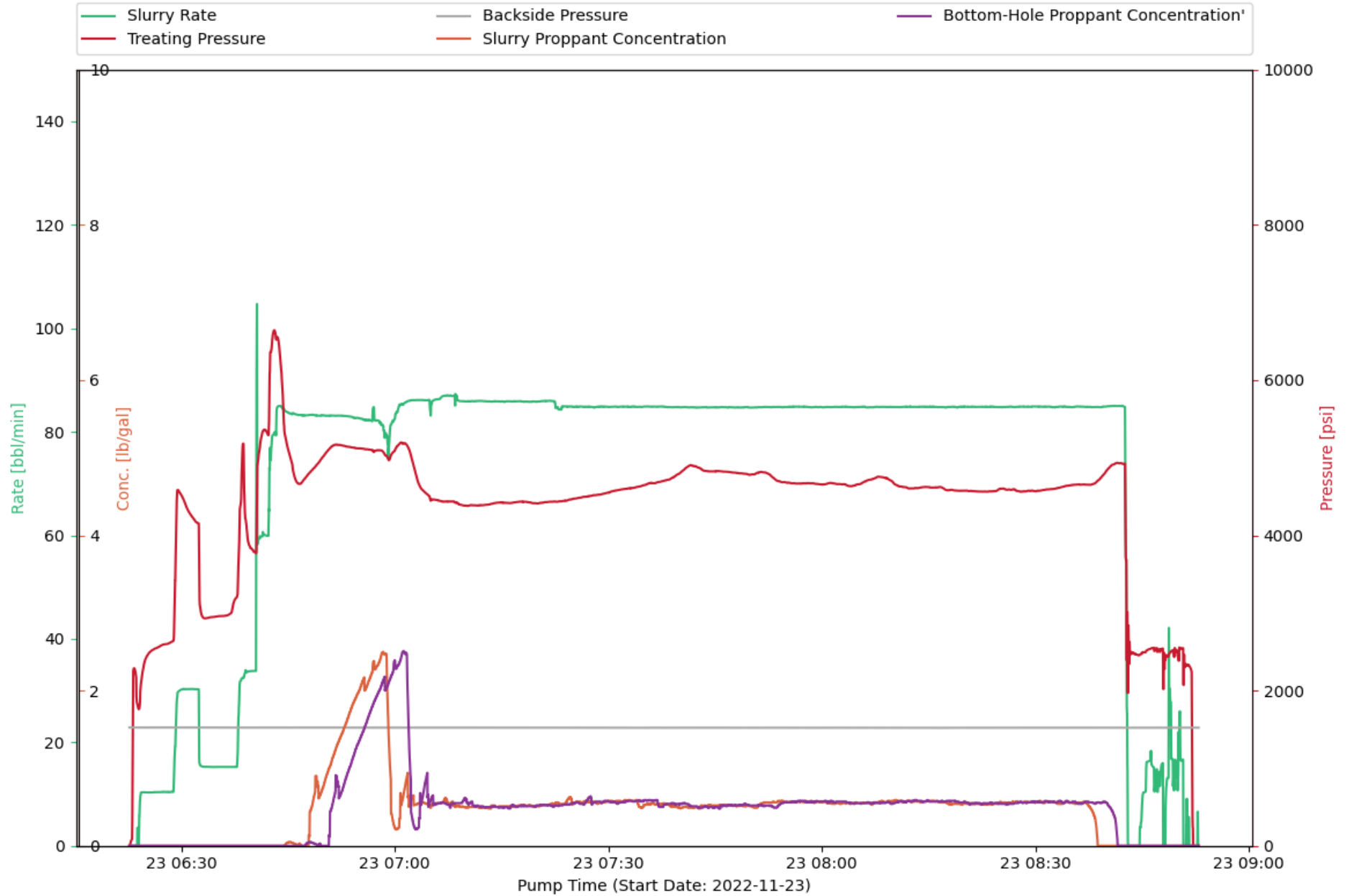
CHEMISTRY PLOT : Treatment Interval 35



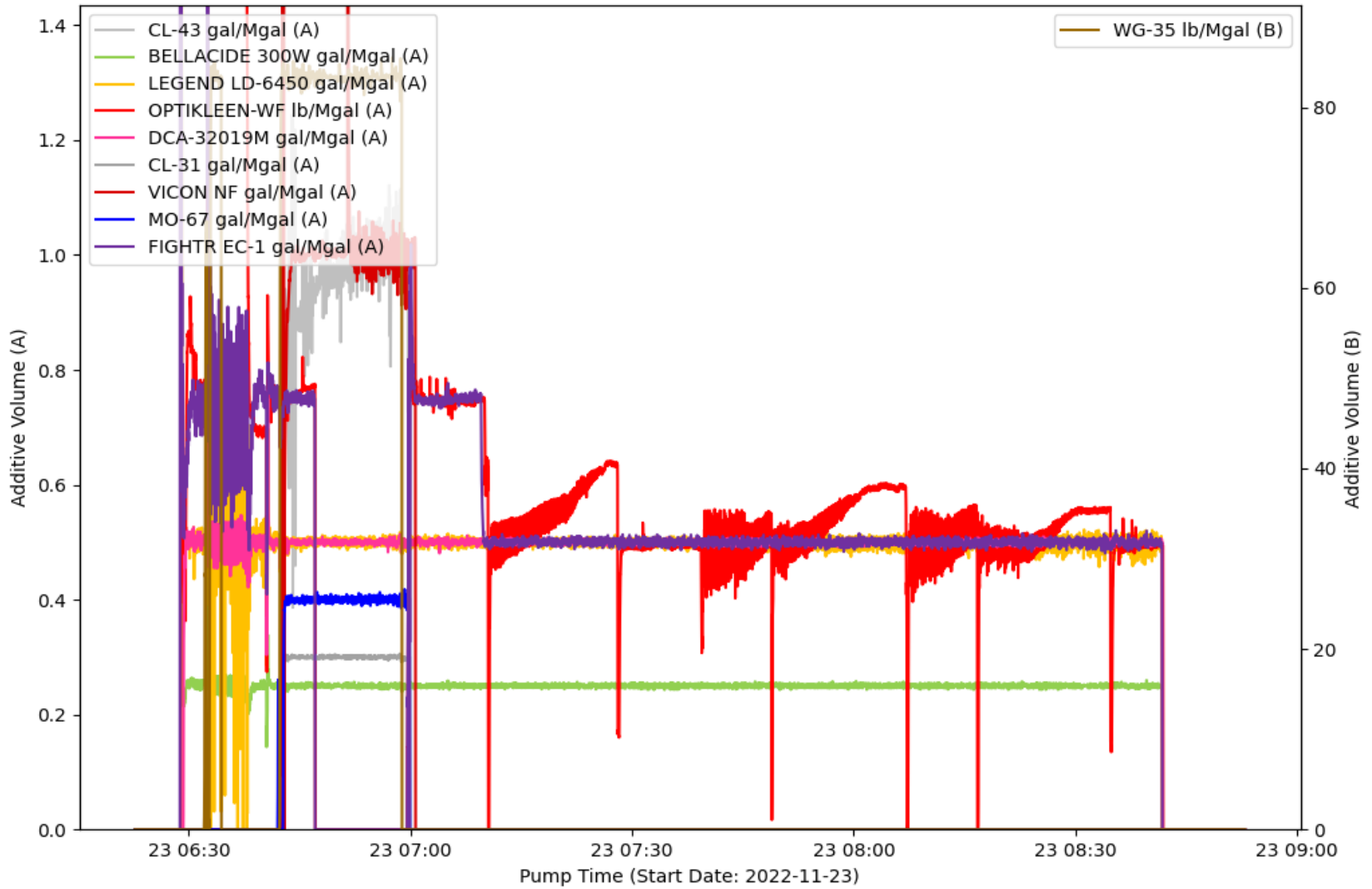
EVENT LOG : TREATMENT INTERVAL 35

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	2022-11-22T19:16:04	0	1677	0	0	0	0	0
2	Start Pumping	2022-11-22T19:16:50	0	1764	0	0	0	0	0
3	Pump Acid	2022-11-22T19:18:23	10.49	2271	0	0	515.58	515.58	0
4	Ball on Seat	2022-11-22T19:29:13	15.12	3033	0	0	9264	9264	0
5	Break Formation	2022-11-22T19:29:14	15.12	3065	0	0	9275	9275	0
6	Pump Xlink Pill	2022-11-22T19:35:42	84.89	5430	0	0	25568	25568	0
7	Stop Pumping	2022-11-22T21:27:20	2.3	2249	0	0	411773	422704	240822
8	ISIP	2022-11-22T21:27:23	0	2393	0	0	411773	422704	240822
9	Shut In Well	2022-11-22T21:28:36	0	2517	0	0	411773	422704	240822

TREATMENT PLOT : Treatment Interval 36



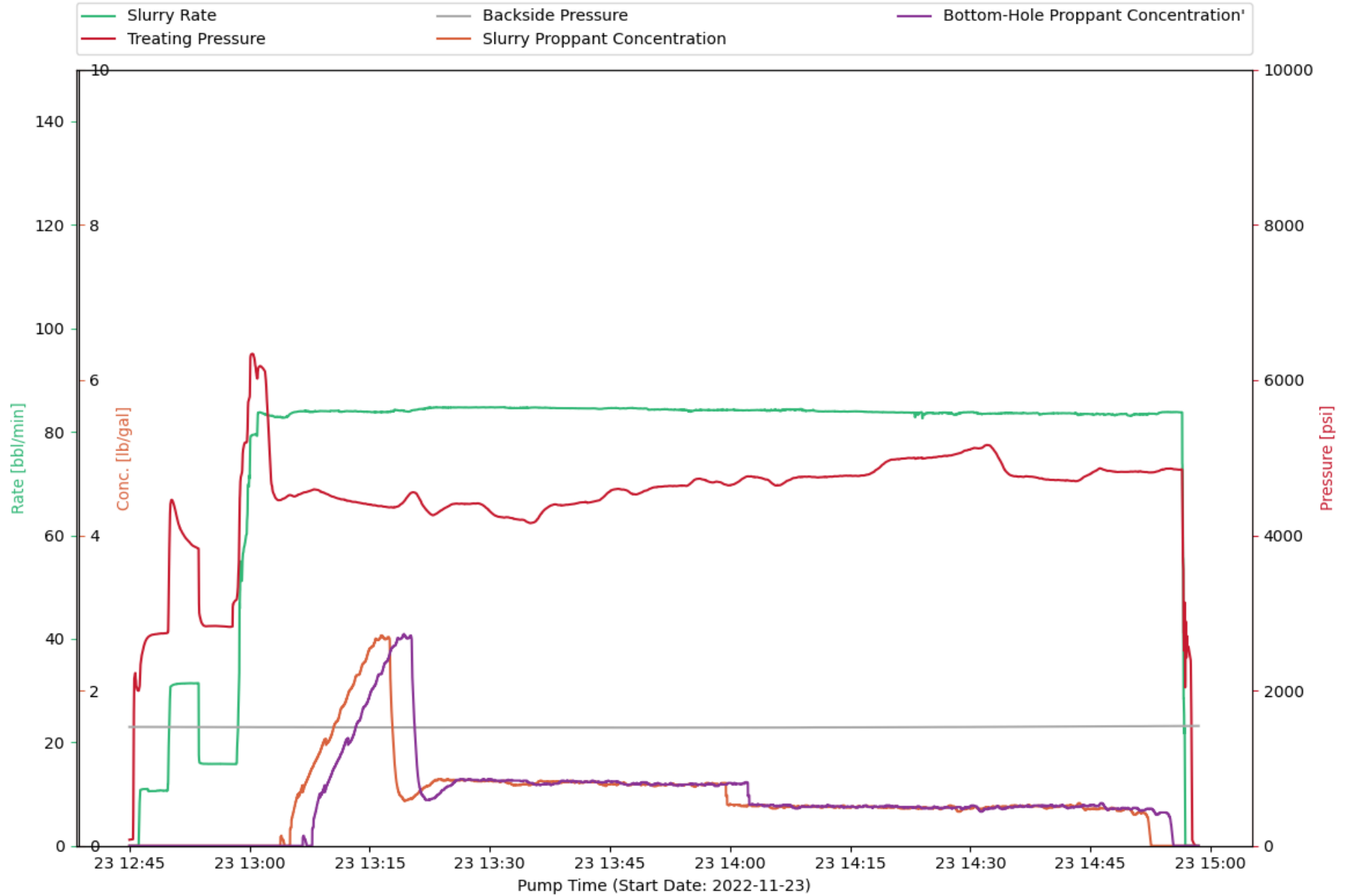
CHEMISTRY PLOT : Treatment Interval 36



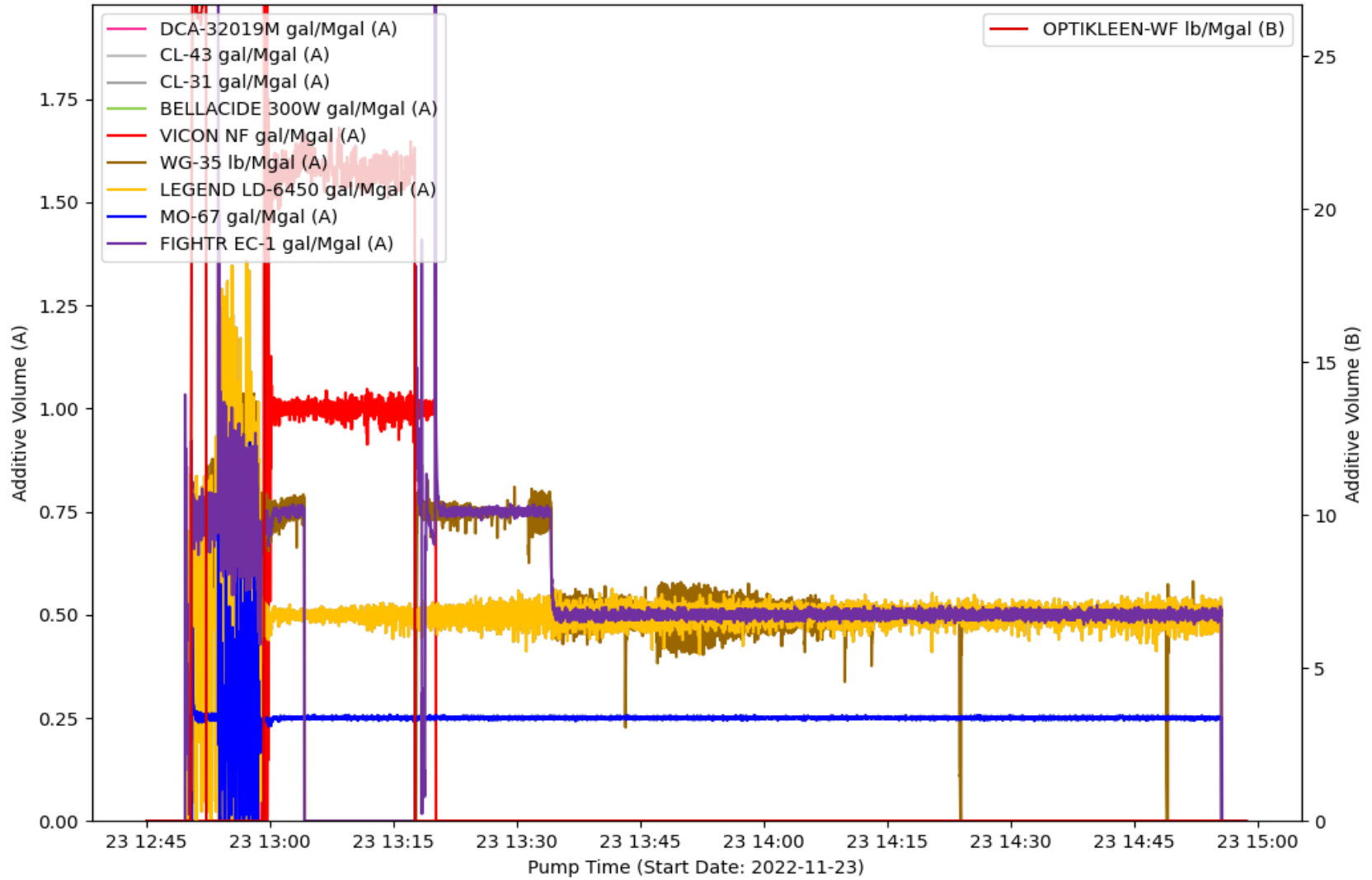
EVENT LOG : TREATMENT INTERVAL 36

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	2022-11-23T06:23:43	0	1908	0	0	0	0	0
2	Start Pumping	2022-11-23T06:23:48	0	1830	0	0	0	0	0
3	Pump Acid	2022-11-23T06:25:41	10.32	2503	0	0	709.46	709.43	0
4	Ball on Seat	2022-11-23T06:37:00	15.26	2998	0	0	9332	9332	0
5	Break Formation	2022-11-23T06:37:33	15.25	3175	0	0	9688	9688	0
6	Pump Xlink Pill	2022-11-23T06:43:16	79.99	6577	0	0	21307	21307	0
7	Stop Pumping	2022-11-23T08:43:01	0.8	1968	0	0	435647	446767	244994
8	ISIP	2022-11-23T08:43:02	0.01	2159	0	0	435647	446767	244994
9	Shut In Well	2022-11-23T08:51:57	0	2251	0	0	439323	450443	244994

TREATMENT PLOT : Treatment Interval 37



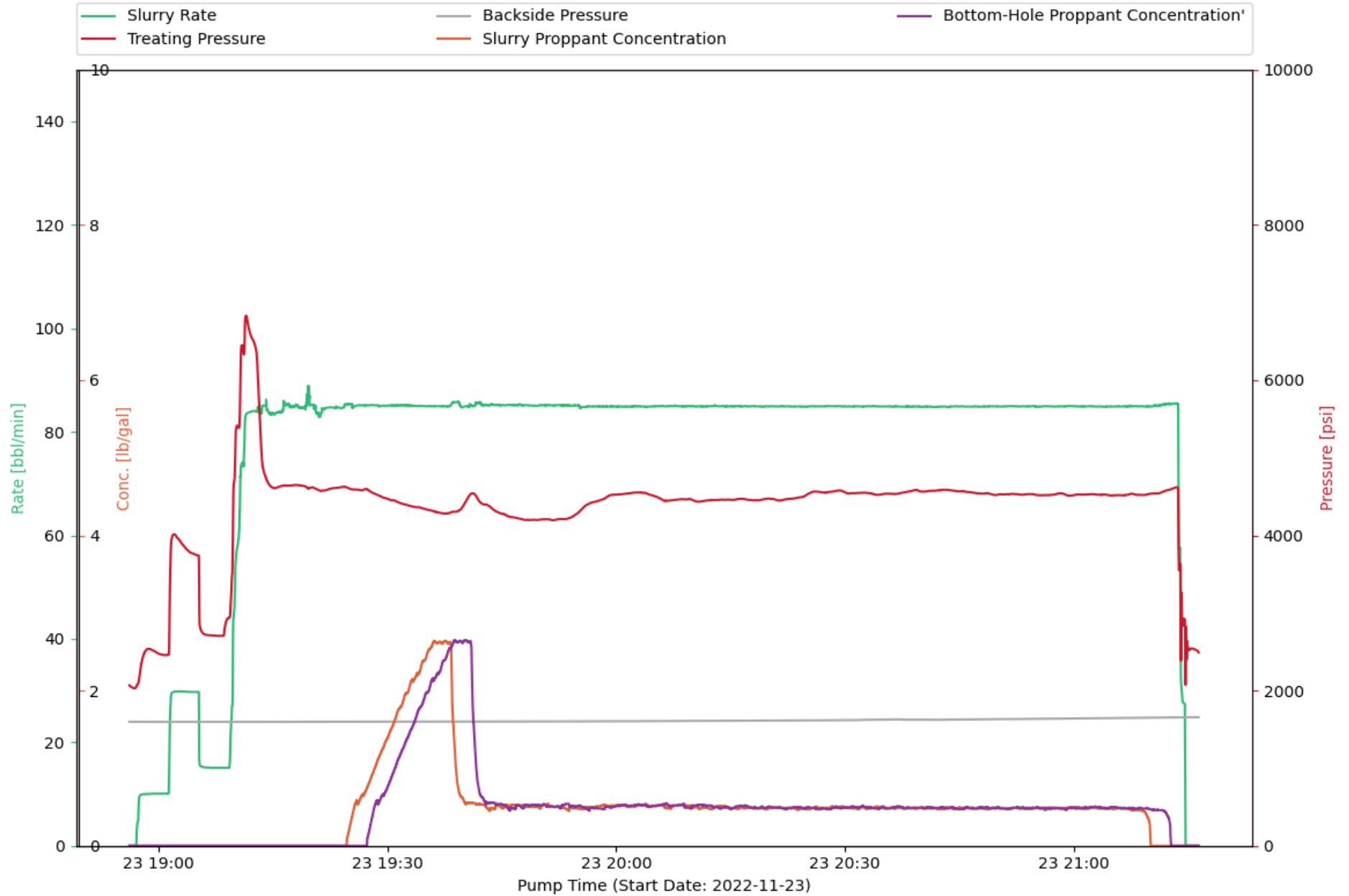
CHEMISTRY PLOT : Treatment Interval 37



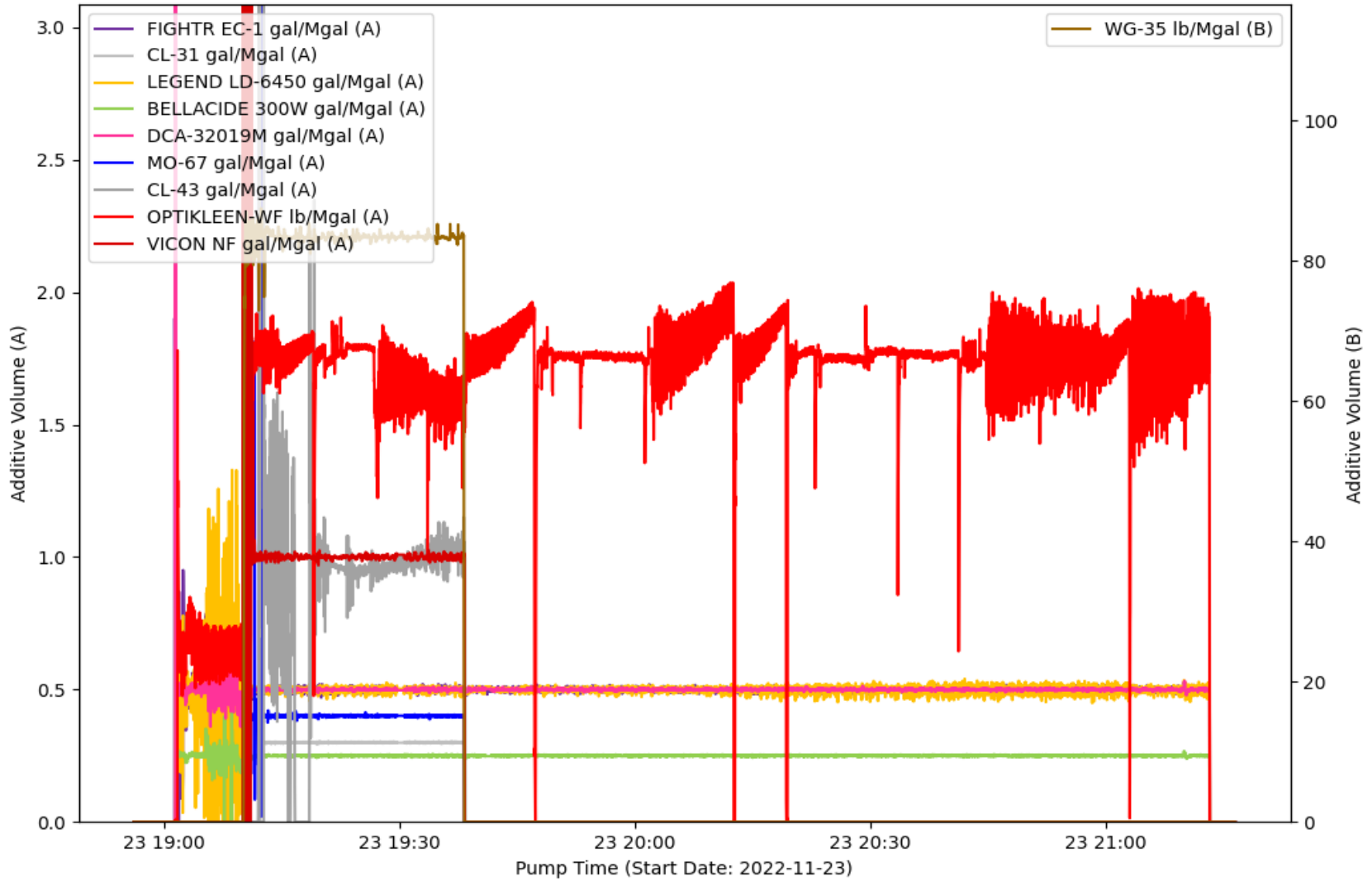
EVENT LOG : TREATMENT INTERVAL 37

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	2022-11-23T12:45:46	0	2151	0	0	0	0	0
2	Open Well	2022-11-23T12:46:00	0	2006	0	0	0	0	0
3	Start Pumping	2022-11-23T12:46:08	0	1996	0	0	0	0	0
4	Pump Acid	2022-11-23T12:48:00	10.58	2721	0	0	807.32	807.32	0
5	Ball on Seat	2022-11-23T12:57:46	15.83	2822	0	0	9303	9303	0
6	Break Formation	2022-11-23T12:58:08	15.81	3150	0	0	9538	9538	0
7	Pump Xlink Pill	2022-11-23T13:00:37	79.49	6269	0	0	15274	15274	0
8	Stop Pumping	2022-11-23T14:56:50	8.05	2084	0	0	412137	424591	274376
9	ISIP	2022-11-23T14:56:52	0	2136	0	0	412137	424591	274376
10	Shut In Well	2022-11-23T14:57:31	0	2399	0	0	412137	424591	274376

TREATMENT PLOT : Treatment Interval 38



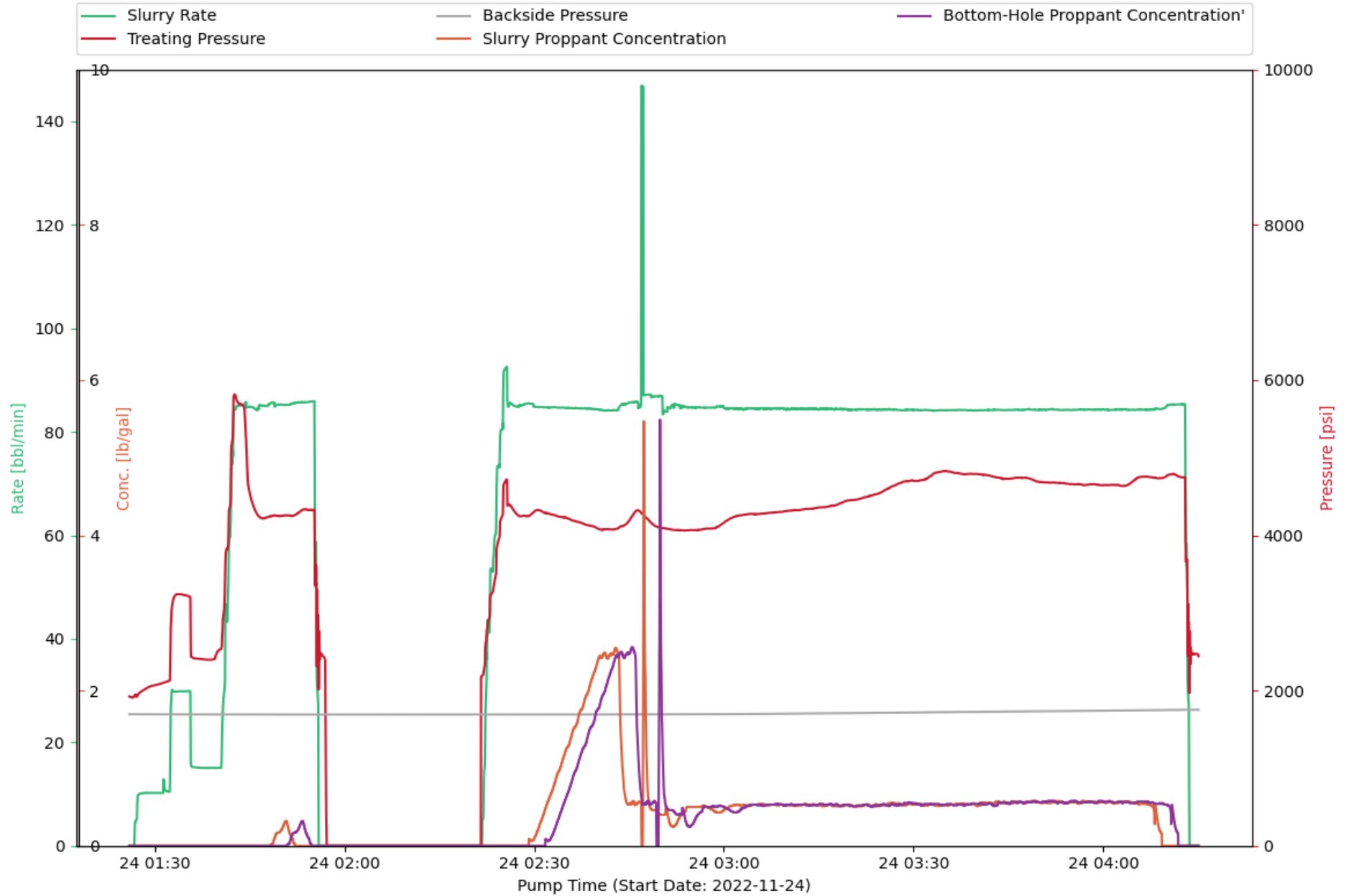
CHEMISTRY PLOT : Treatment Interval 38



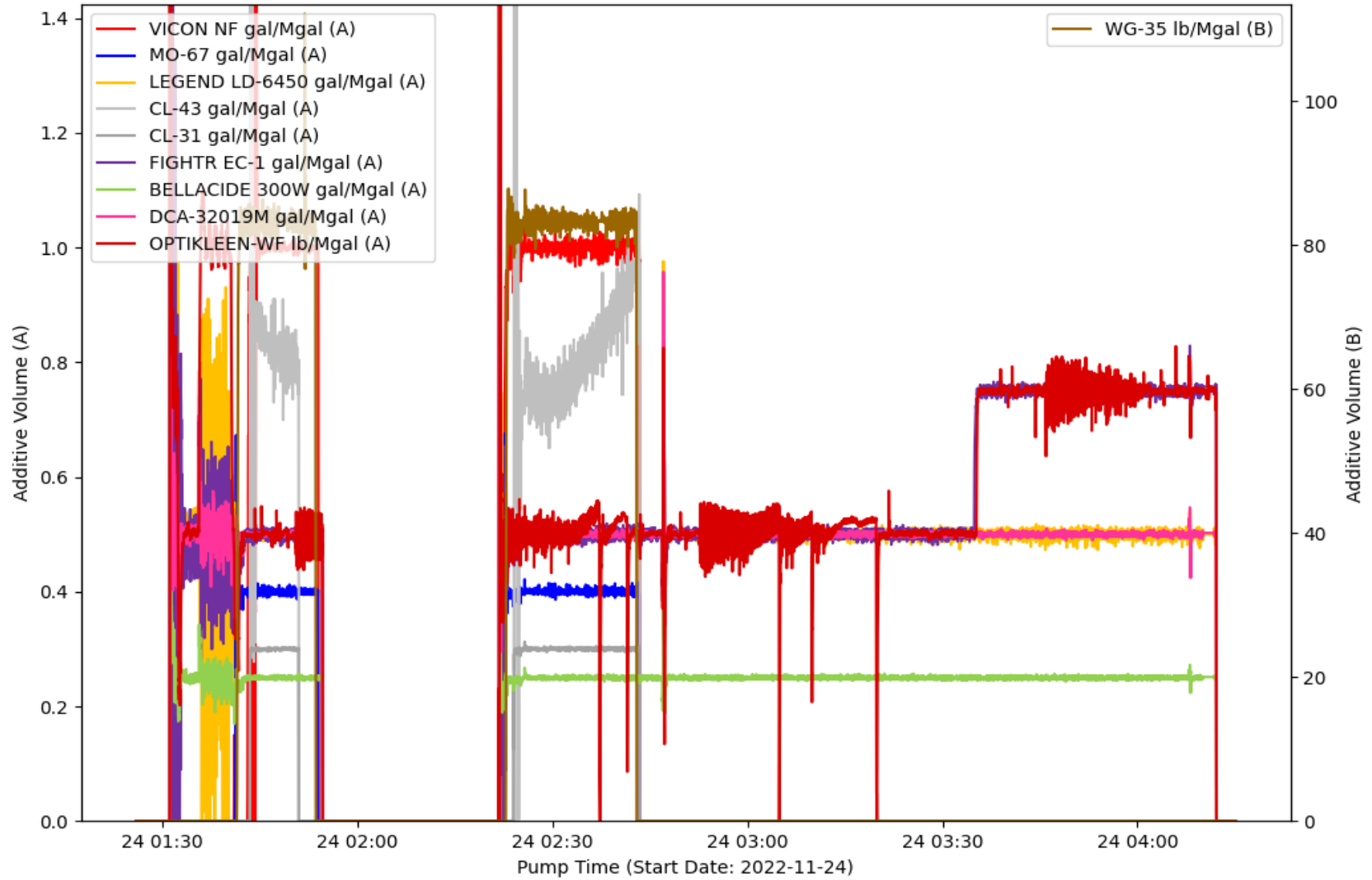
EVENT LOG : TREATMENT INTERVAL 38

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	2022-11-23T18:56:11	0	2063	0	0	0	0	0
2	Start Avg Trt 38	2022-11-23T18:56:39	0	2033	0	0	0	0	0
3	Start Pumping	2022-11-23T18:57:02	0	2047	0	0	0	0	0
4	Pump Acid	2022-11-23T18:58:45	10.02	2537	0	0	635.52	635.52	0
5	Ball on Seat	2022-11-23T19:08:14	15.09	2704	0	0	8470	8470	0
6	Break Formation	2022-11-23T19:08:52	15.06	2900	0	0	8875	8875	0
7	Pump Xlink Pill	2022-11-23T19:23:10	84.56	4610	0	0	55834	55834	0
8	Stop Pumping	2022-11-23T21:14:32	27.51	2919	0	0	441200	451863	234925
9	ISIP	2022-11-23T21:14:44	0	2388	0	0	441338	452001	234925
10	Shut In Well	2022-11-23T21:16:23	0	2498	0	0	441338	452001	234925

TREATMENT PLOT : Treatment Interval 39



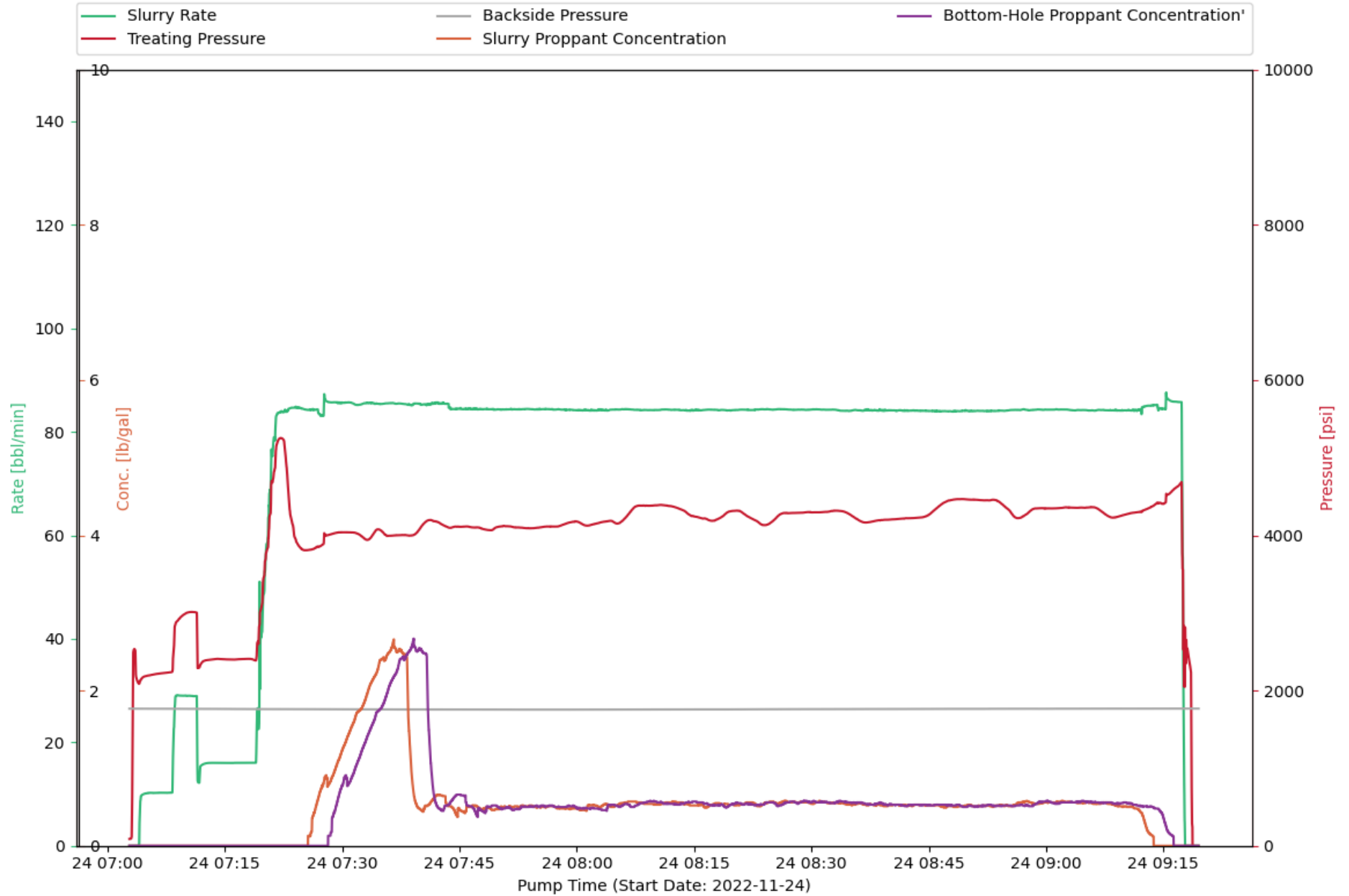
CHEMISTRY PLOT : Treatment Interval 39



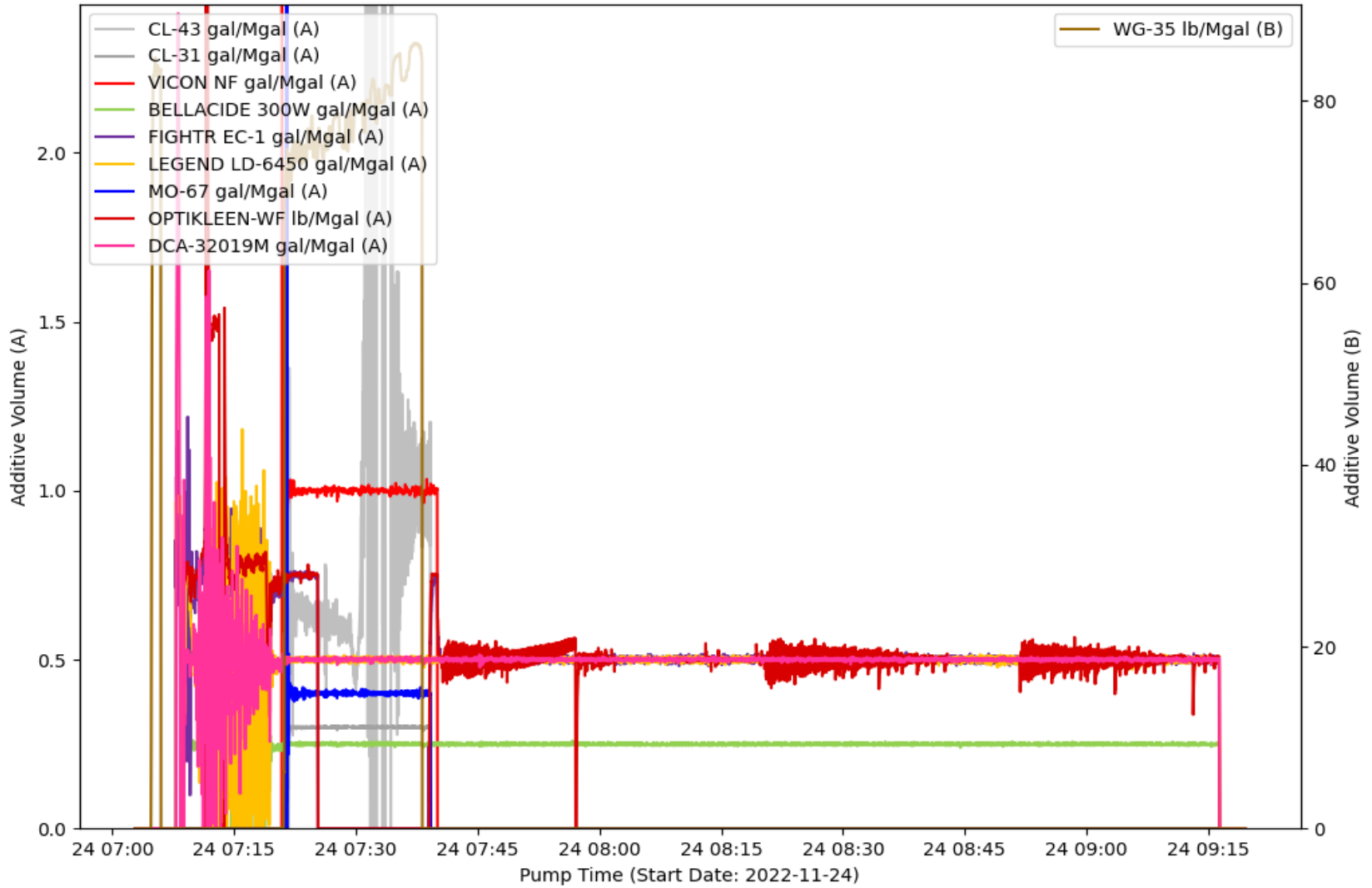
EVENT LOG : TREATMENT INTERVAL 39

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	2022-11-24T01:26:04	0	1923	0	0	0	0	0
2	Start Pumping	2022-11-24T01:26:30	0	1909	0	0	0	0	0
3	Pump Acid	2022-11-24T01:29:18	10.24	2054	0	0	960.78	960.78	0
4	Ball on Seat	2022-11-24T01:39:18	15.07	2402	0	0	8633	8633	0
5	Break Formation	2022-11-24T01:40:21	15.05	2530	0	0	9304	9304	0
6	Stop Pumping	2022-11-24T01:56:00	0	2722	0	0	60291	60391	2181
7	Shut In Well	2022-11-24T01:56:30	0	2453	0	0	60291	60391	2181
8	Suspending Job	2022-11-24T01:57:14	0	-1.01	0	0	60291	60391	2181
9	Resuming Job	2022-11-24T02:21:32	0	0	0	0	60291	60391	2181
10	Open Well	2022-11-24T02:21:35	0	-6.64	0	0	60291	60391	2181
11	Start Pumping	2022-11-24T02:21:43	0	2180	0	0	60291	60391	2181
12	Stop Pumping	2022-11-24T04:13:35	0.67	1969	0	0	442367	452817	230255
13	ISIP	2022-11-24T04:13:38	0	2685	0	0	442367	452817	230255
14	Shut In Well	2022-11-24T04:15:00	0	2450	0	0	442367	452817	230255

TREATMENT PLOT : Treatment Interval 40



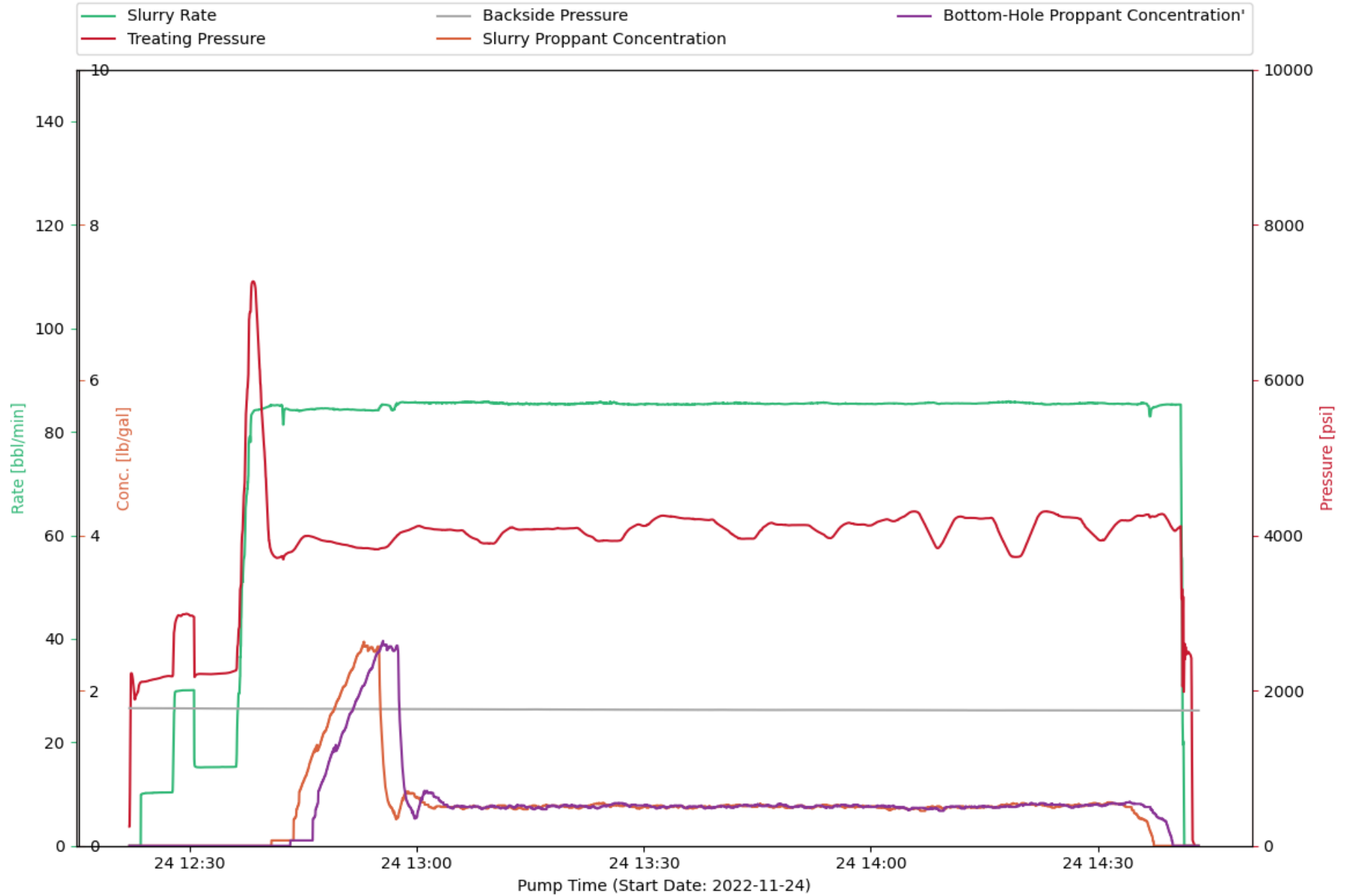
CHEMISTRY PLOT : Treatment Interval 40



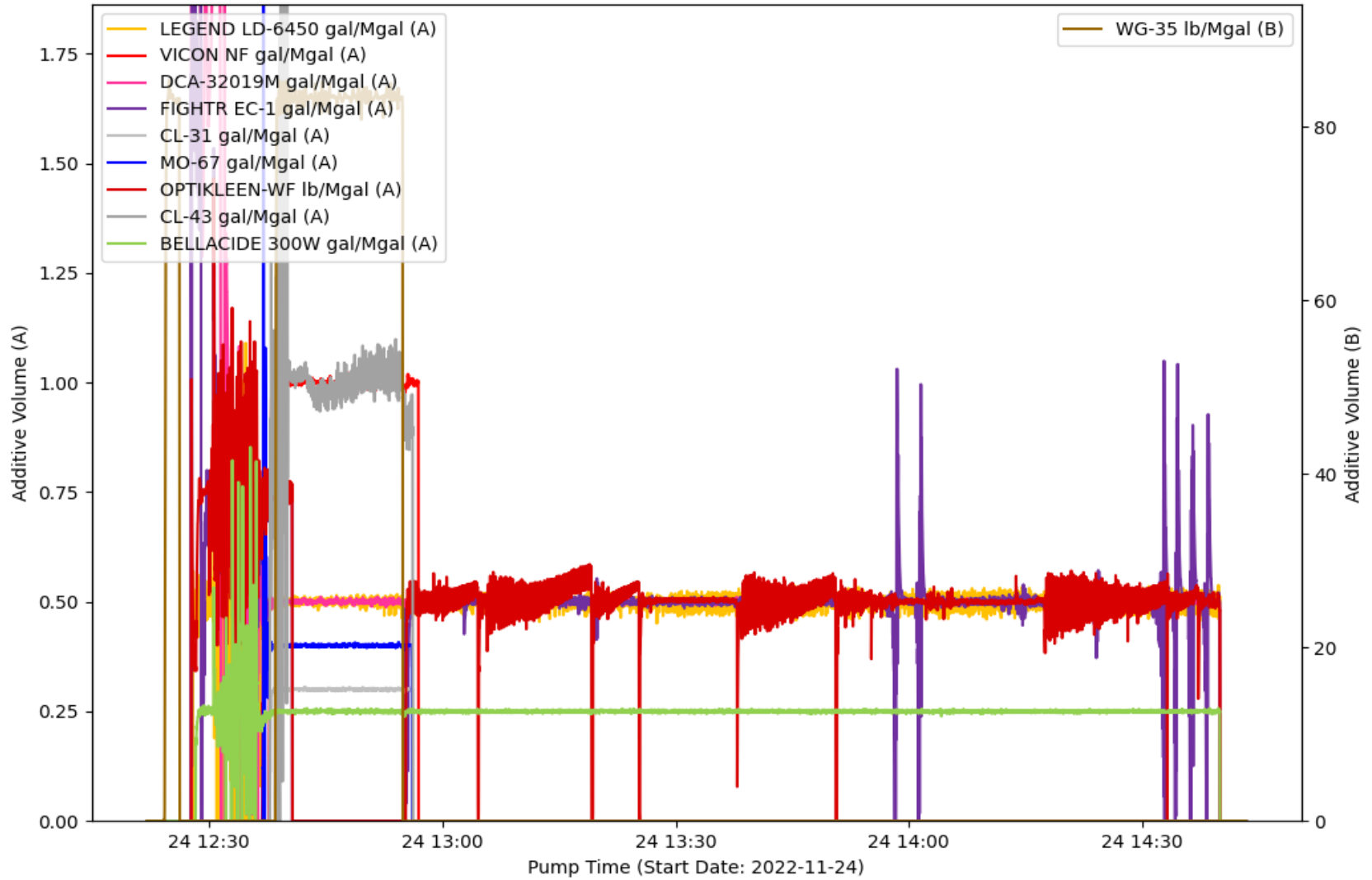
EVENT LOG : TREATMENT INTERVAL 40

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	2022-11-24T07:03:48	0	2124	0	0	0	0	0
2	Start Pumping	2022-11-24T07:04:00	0	2101	0	0	0	0	0
3	Pump Acid	2022-11-24T07:05:55	10.22	2208	0	0	769.53	769.54	0
4	Ball on Seat	2022-11-24T07:17:58	16.01	2408	0	0	9854	9854	0
5	Break Formation	2022-11-24T07:18:55	16.02	2386	0	0	10487	10487	0
6	Pump Xlink Pill	2022-11-24T07:21:33	82.96	5133	0	0	16472	16472	0
7	Stop Pumping	2022-11-24T09:17:44	2.64	2594	0	0	416706	427706	242356
8	ISIP	2022-11-24T09:17:46	0	2814	0	0	416706	427706	242356
9	Shut In Well	2022-11-24T09:18:29	0	2261	0	0	416706	427706	242356

TREATMENT PLOT : Treatment Interval 41



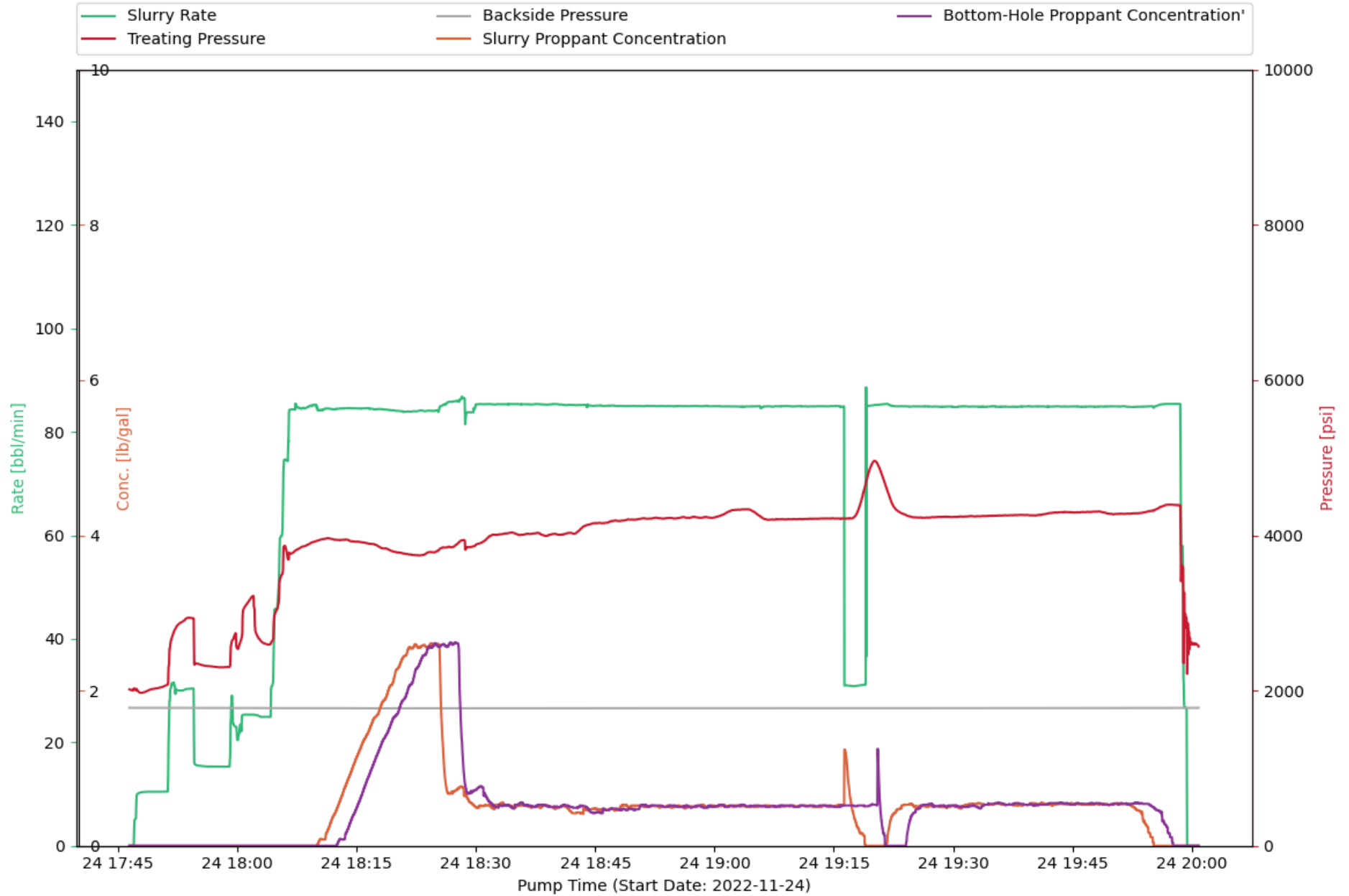
CHEMISTRY PLOT : Treatment Interval 41



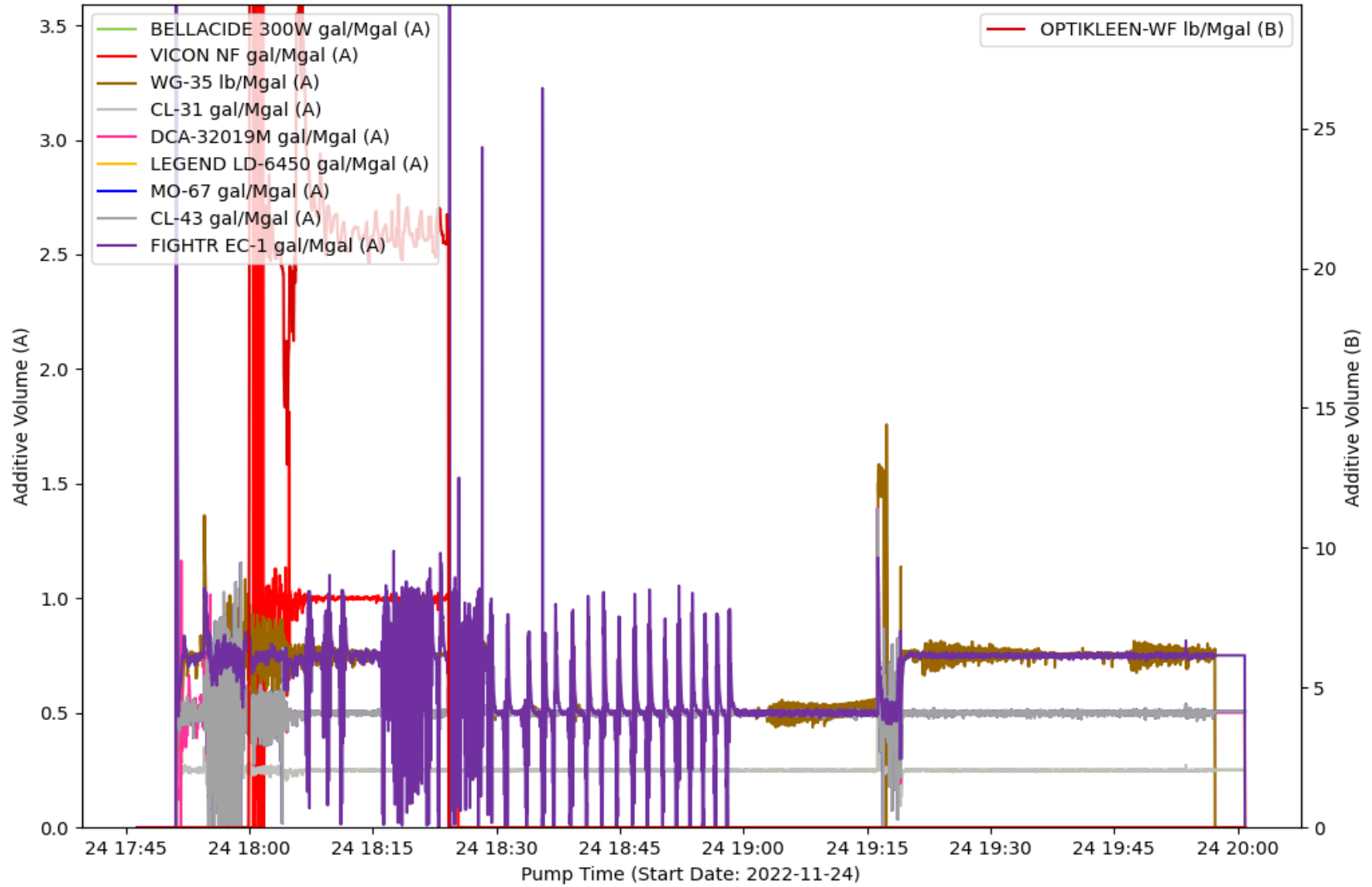
EVENT LOG : TREATMENT INTERVAL 41

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	2022-11-24T12:23:00	0	1958	0	0	0	0	0
2	Start Pumping	2022-11-24T12:23:28	0	2104	0	0	0	0	0
3	Pump Acid	2022-11-24T12:25:04	10.24	2141	0	0	674.14	674.13	0
4	Ball on Seat	2022-11-24T12:35:15	15.21	2231	0	0	8288	8288	0
5	Break Formation	2022-11-24T12:35:43	15.25	2248	0	0	8590	8590	0
6	Pump Xlink Pill	2022-11-24T12:38:21	83.89	7272	0	0	14198	14198	0
7	Stop Pumping	2022-11-24T14:41:25	4.75	2149	0	0	442991	454286	248833
8	ISIP	2022-11-24T14:41:29	0	2602	0	0	442991	454286	248833
9	Shut In Well	2022-11-24T14:42:20	0	2437	0	0	442991	454286	248833

TREATMENT PLOT : Treatment Interval 42



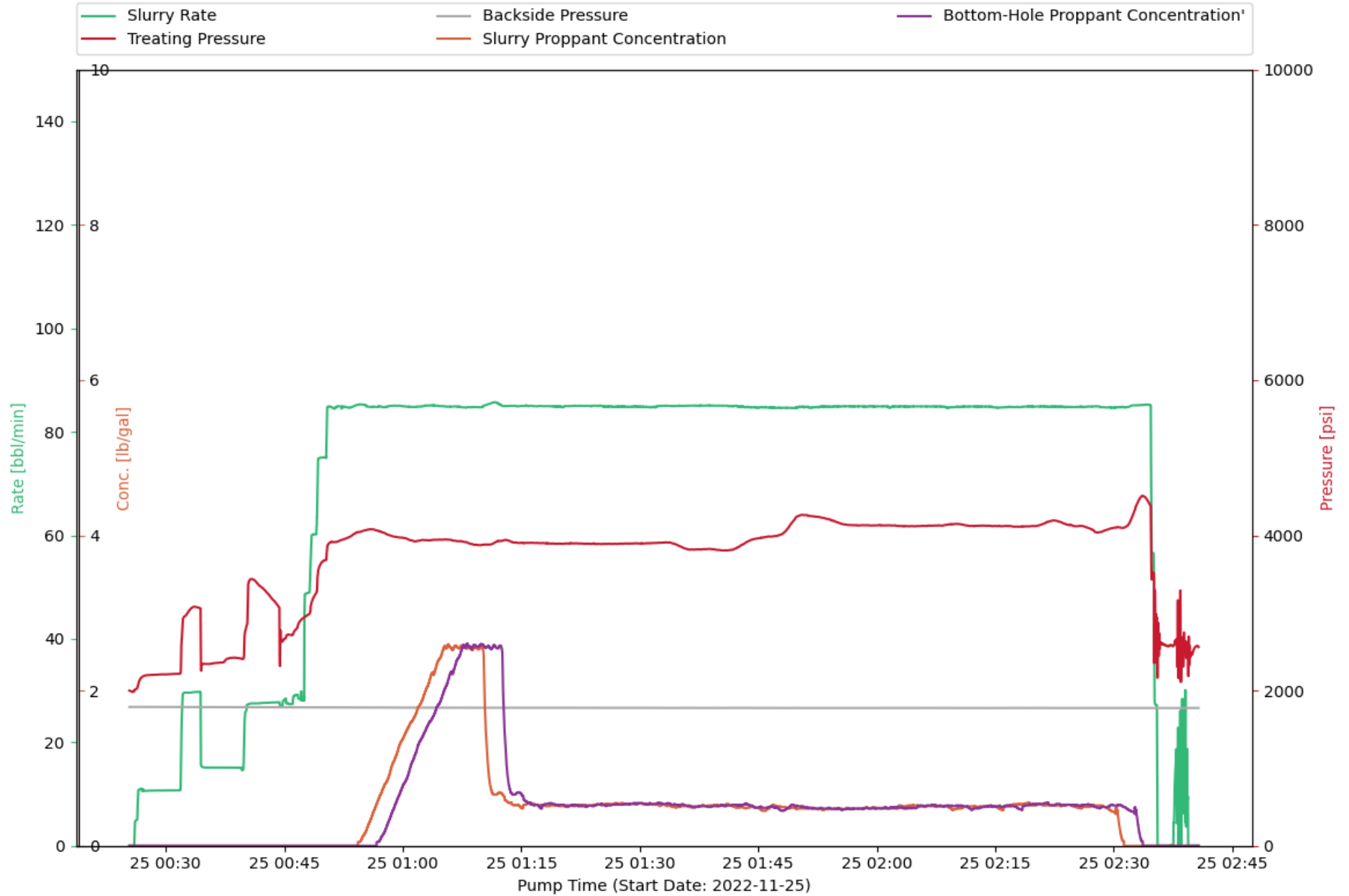
CHEMISTRY PLOT : Treatment Interval 42



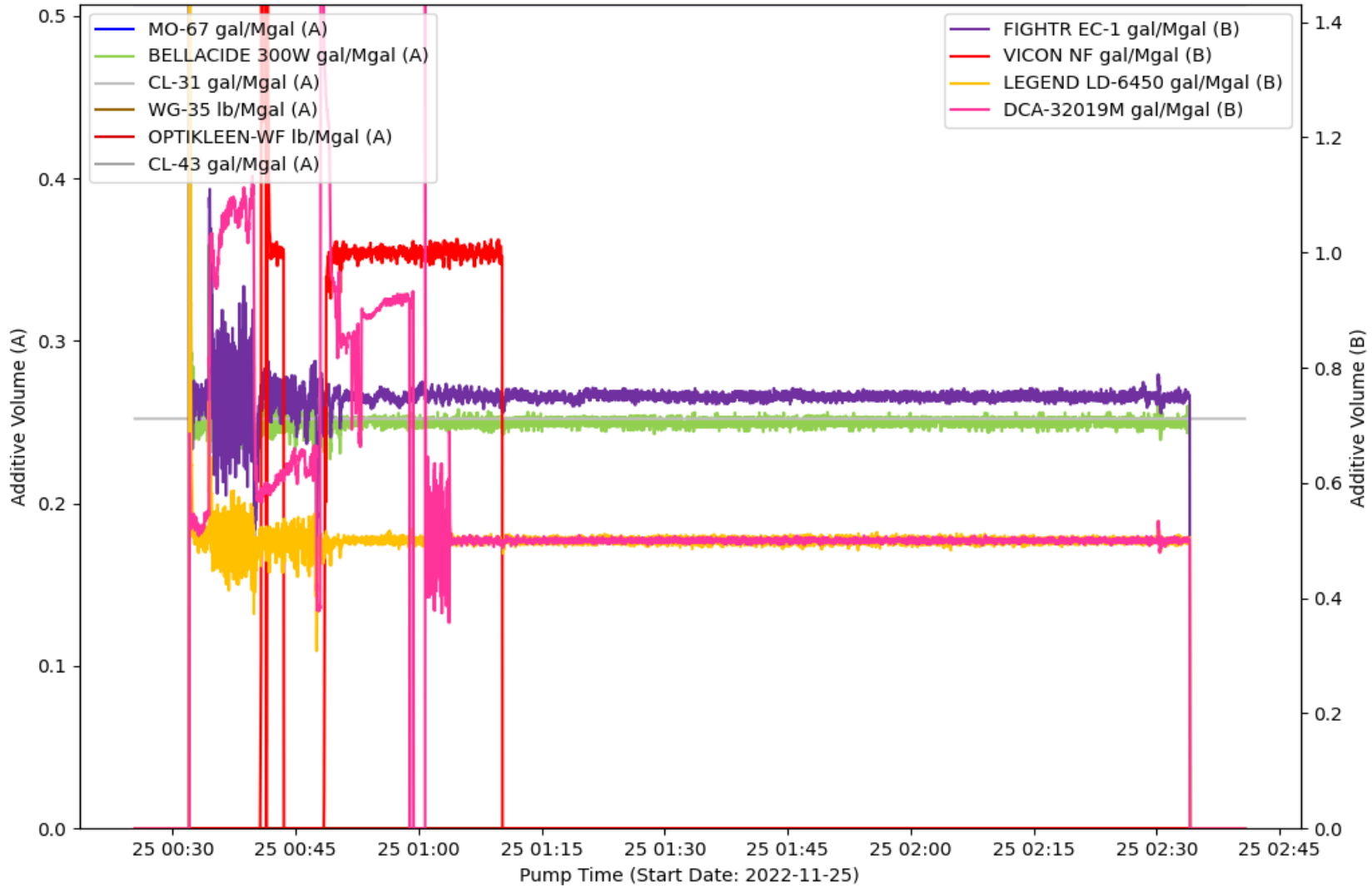
EVENT LOG : TREATMENT INTERVAL 42

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	2022-11-24T17:46:26	0	2013	0	0	0	0	0
2	Start Pumping	2022-11-24T17:46:52	0	2011	0	0	0	0	0
3	Pump Acid	2022-11-24T17:48:29	10.43	1988	0	0	593.55	593.55	0
4	Ball on Seat	2022-11-24T17:58:23	15.3	2300	0	0	8394	8394	0
5	Break Formation	2022-11-24T17:58:55	15.32	2301	0	0	8741	8741	0
6	Pump Xlink Pill	2022-11-24T18:08:55	84.91	3882	0	0	28269	28269	0
7	Stop Pumping	2022-11-24T19:59:28	0	2232	0	0	404006	414635	234164
8	ISIP	2022-11-24T19:59:30	0	2718	0	0	404006	414635	234164
9	Shut In Well	2022-11-24T20:00:51	0	2576	0	0	404006	414635	234164

TREATMENT PLOT : Treatment Interval 43



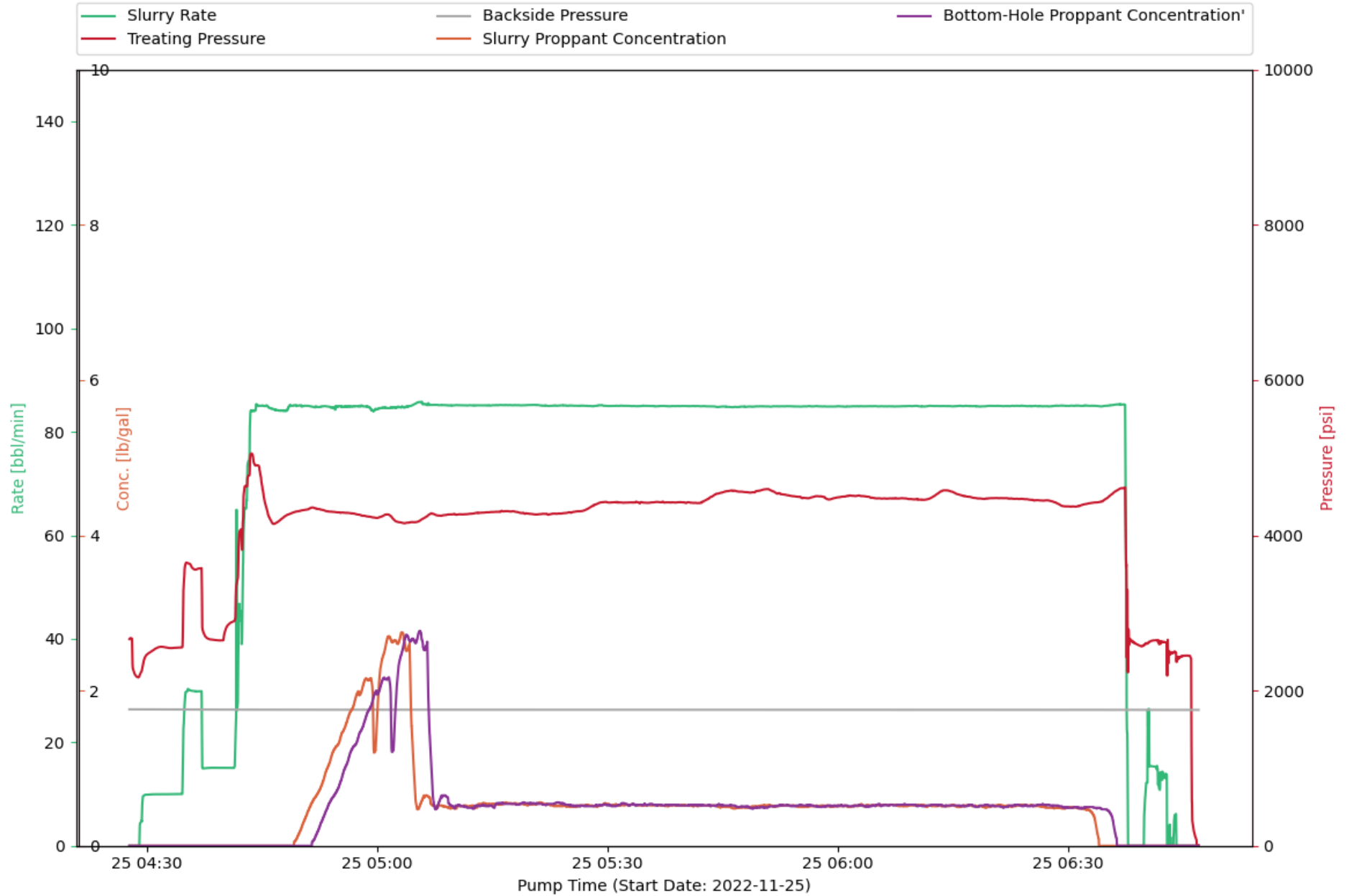
CHEMISTRY PLOT : Treatment Interval 43



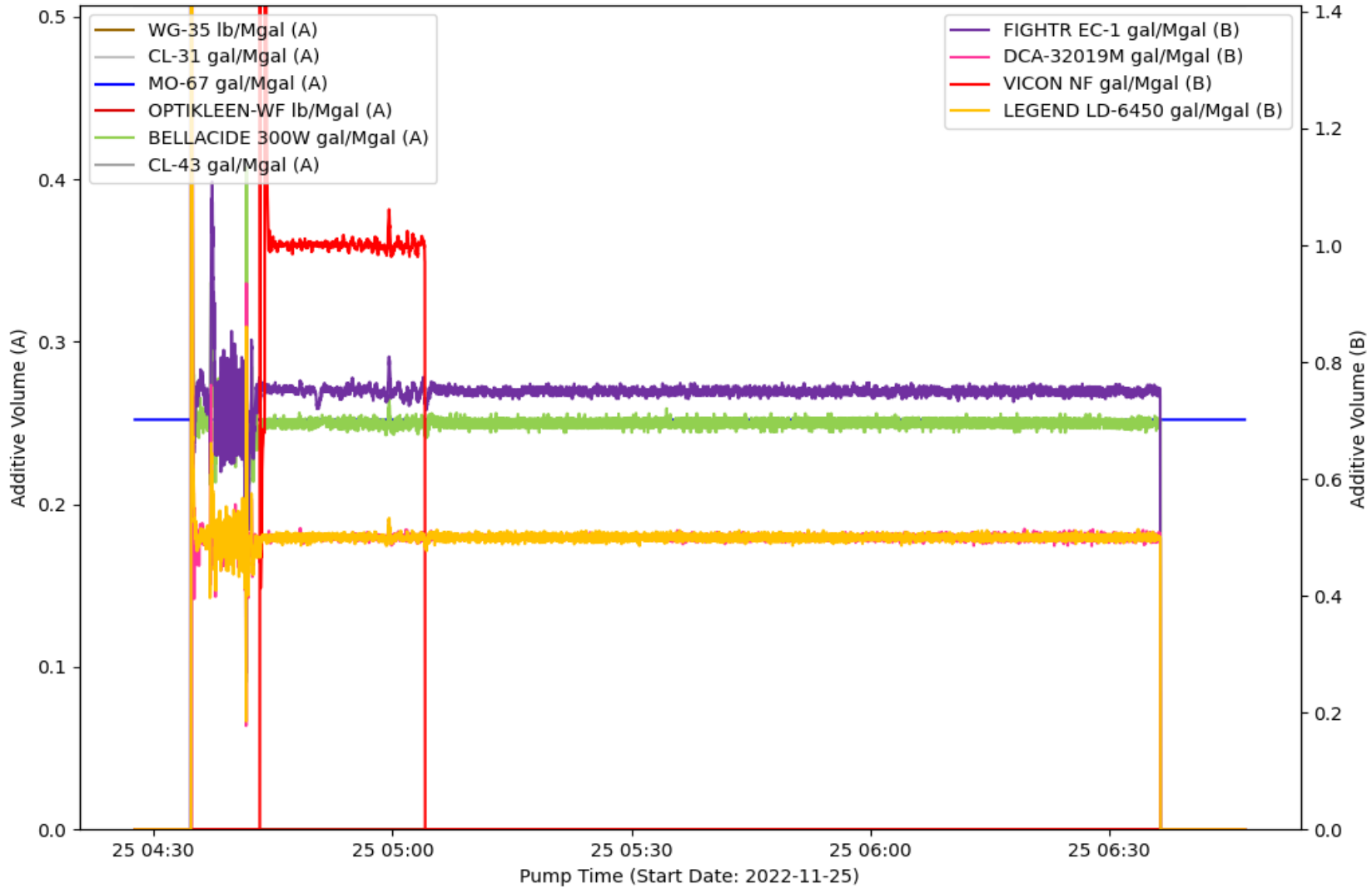
EVENT LOG : TREATMENT INTERVAL 43

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 Pumping	2022-11-25T00:25:57	0	1995	0	0	0	0	0
2	Pump Acid	2022-11-25T00:28:11	10.67	2201	0	0	871.88	871.87	0
3	Ball on Seat	2022-11-25T00:37:33	15.12	2393	0	0	7615	7615	0
4	Break Formation	2022-11-25T00:38:02	15.1	2417	0	0	7915	7915	0
5	Stop Pumping	2022-11-25T02:35:35	0	2476	0	0	388518	399091	232936
6	ISIP	2022-11-25T02:35:36	0	2720	0	0	388518	399091	232936
7	Shut In Well	2022-11-25T02:40:43	0	2566	0	0	389472	400044	232936

TREATMENT PLOT : Treatment Interval 44



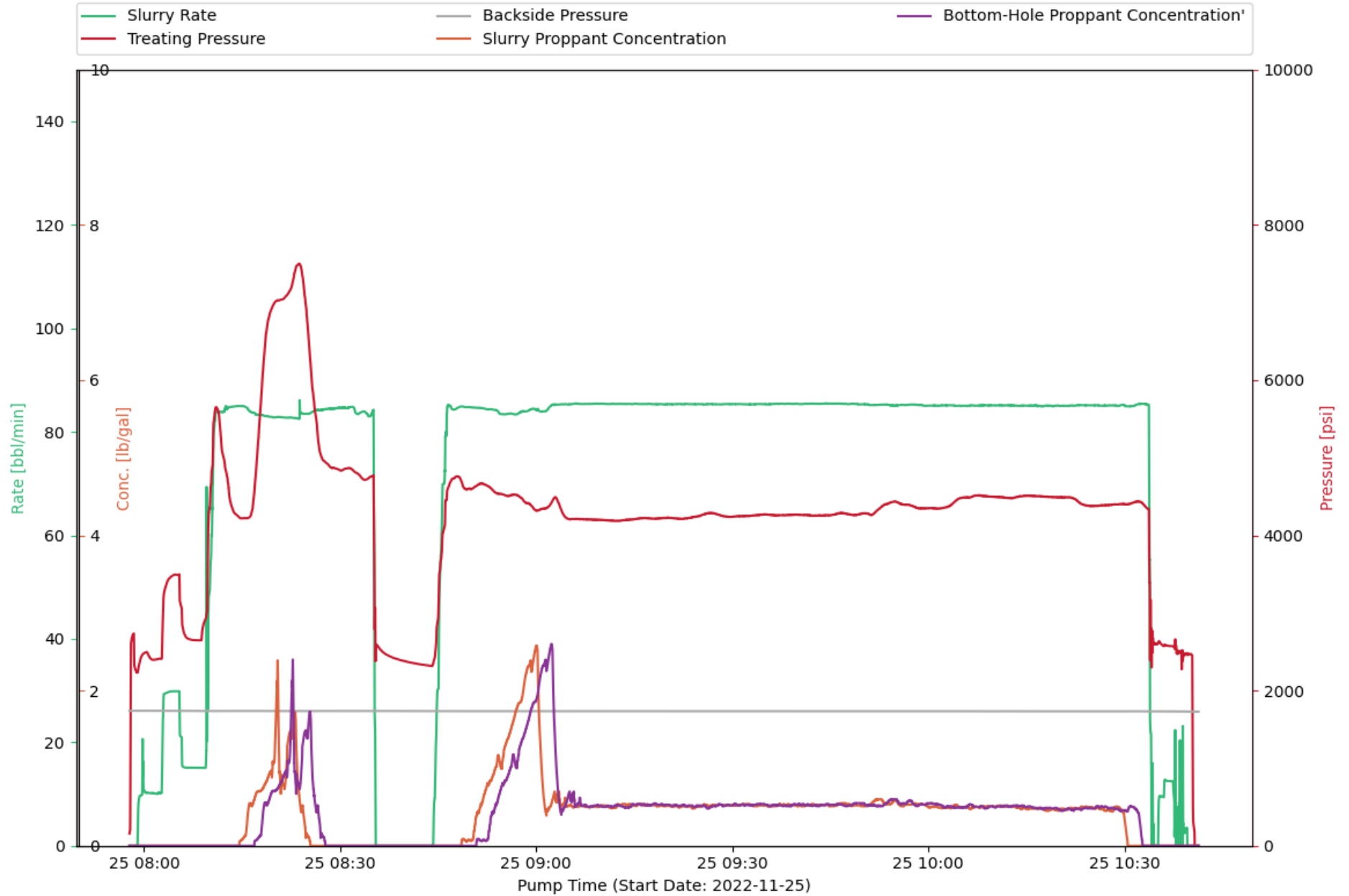
CHEMISTRY PLOT : Treatment Interval 44



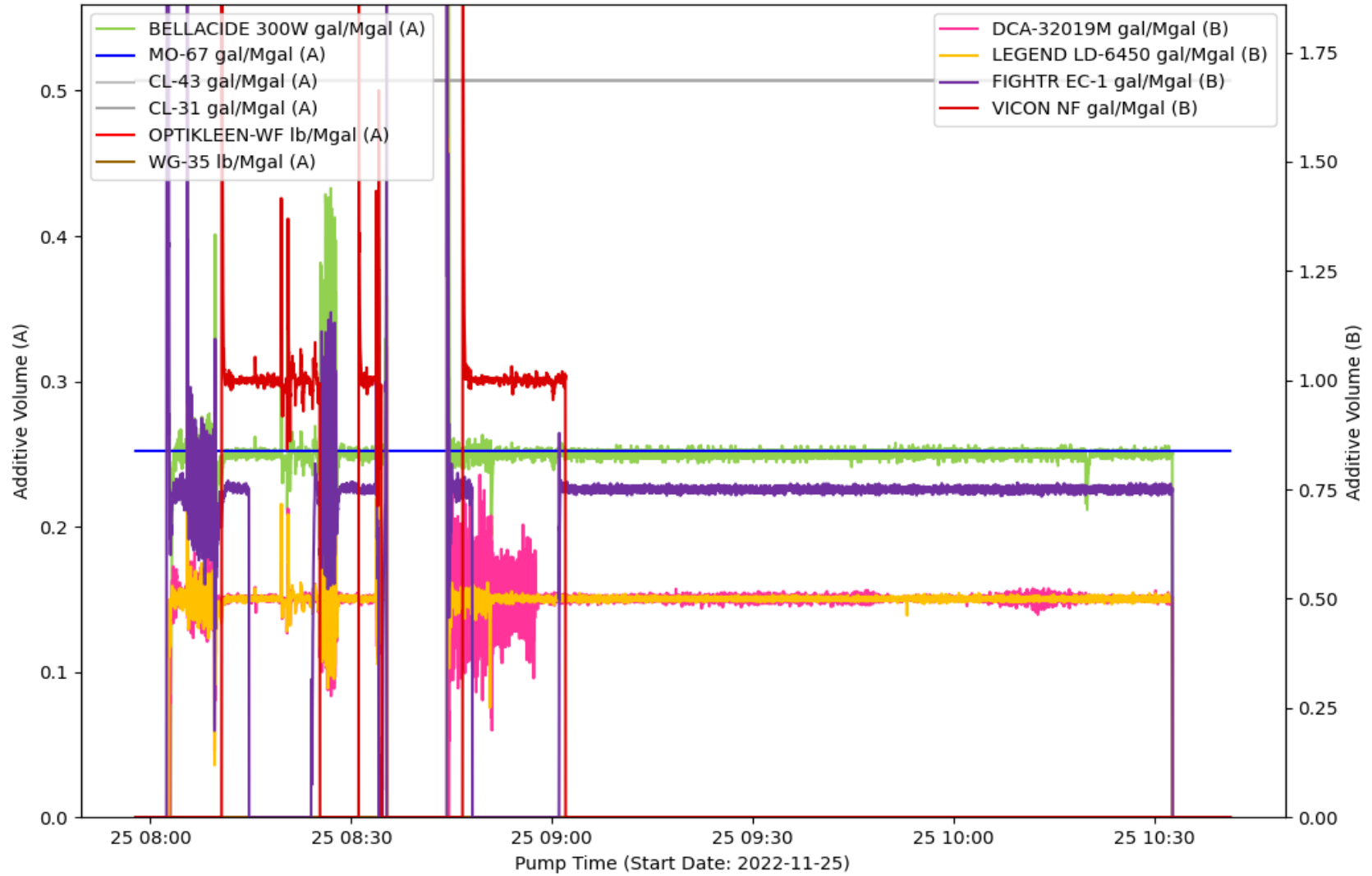
EVENT LOG : TREATMENT INTERVAL 44

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 44	2022-11-25T04:28:12	0	2261	0	0	0	0	0
2	Open Well	2022-11-25T04:28:41	0	2176	0	0	0	0	0
3	Start Pumping	2022-11-25T04:28:56	0	2177	0	0	0	0	0
4	Pump Acid	2022-11-25T04:30:45	9.96	2519	0	0	651.93	651.93	0
5	Ball on Seat	2022-11-25T04:39:55	15.07	2651	0	0	7106	7106	0
6	Break Formation	2022-11-25T04:41:07	15.06	2888	0	0	7862	7862	0
7	Stop Pumping	2022-11-25T06:37:47	0.01	2417	0	0	408986	419900	240433
8	ISIP	2022-11-25T06:37:48	0	2659	0	0	408986	419900	240433
9	Shut In Well	2022-11-25T06:45:58	0	2419	0	0	410876	421790	240433

TREATMENT PLOT : Treatment Interval 45



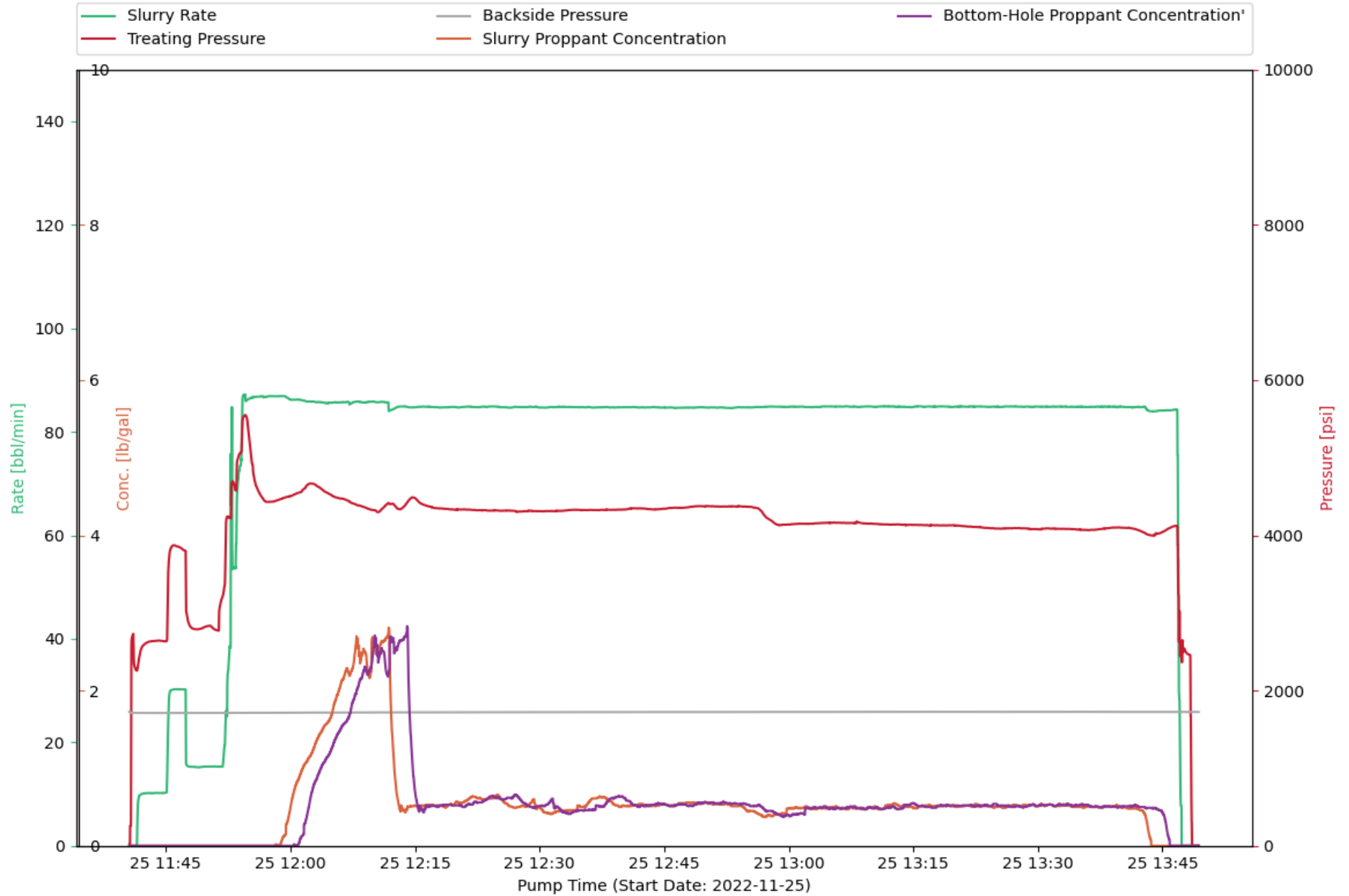
CHEMISTRY PLOT : Treatment Interval 45



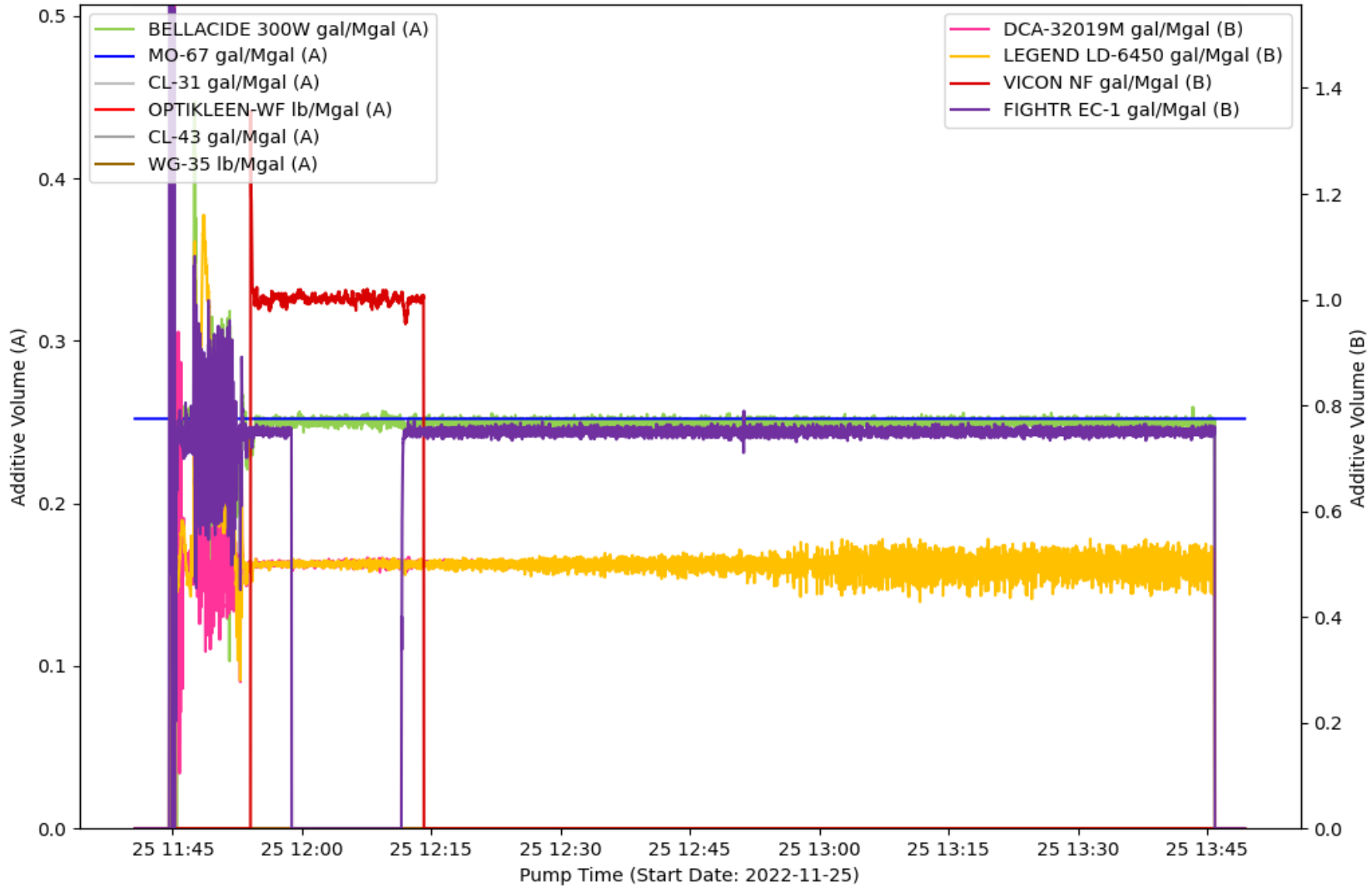
EVENT LOG : TREATMENT INTERVAL 45

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	2022-11-25T07:58:47	0	2249	0	0	0	0	0
2	Start Pumping	2022-11-25T07:58:59	0	2232	0	0	0	0	0
3	Pump Acid	2022-11-25T08:00:34	10.23	2481	0	0	657.09	657.06	0
4	Ball on Seat	2022-11-25T08:08:47	15.09	2650	0	0	7085	7085	0
5	Break Formation	2022-11-25T08:09:12	15.07	2879	0	0	7351	7351	0
6	Pump Xlink Pill	2022-11-25T08:10:59	83.73	5650	0	0	11207	11207	0
7	Stop Pumping	2022-11-25T08:35:27	0	2407	0	0	95435	96709	28053
8	Start Pumping	2022-11-25T08:44:12	0.01	2340	0	0	95436	96709	28053
9	Pump Xlink Pill	2022-11-25T08:48:00	84.67	4757	0	0	105465	106738	28053
10	Stop Pumping	2022-11-25T10:34:08	0	2297	0	0	474536	485260	236254
11	ISIP	2022-11-25T10:34:10	0	2476	0	0	474536	485260	236254
12	Pump Brine Water	2022-11-25T10:35:02	0	2603	0	0	474587	485311	236254
13	Shut In Well	2022-11-25T10:40:19	0	2456	0	0	476077	486801	236254

TREATMENT PLOT : Treatment Interval 46



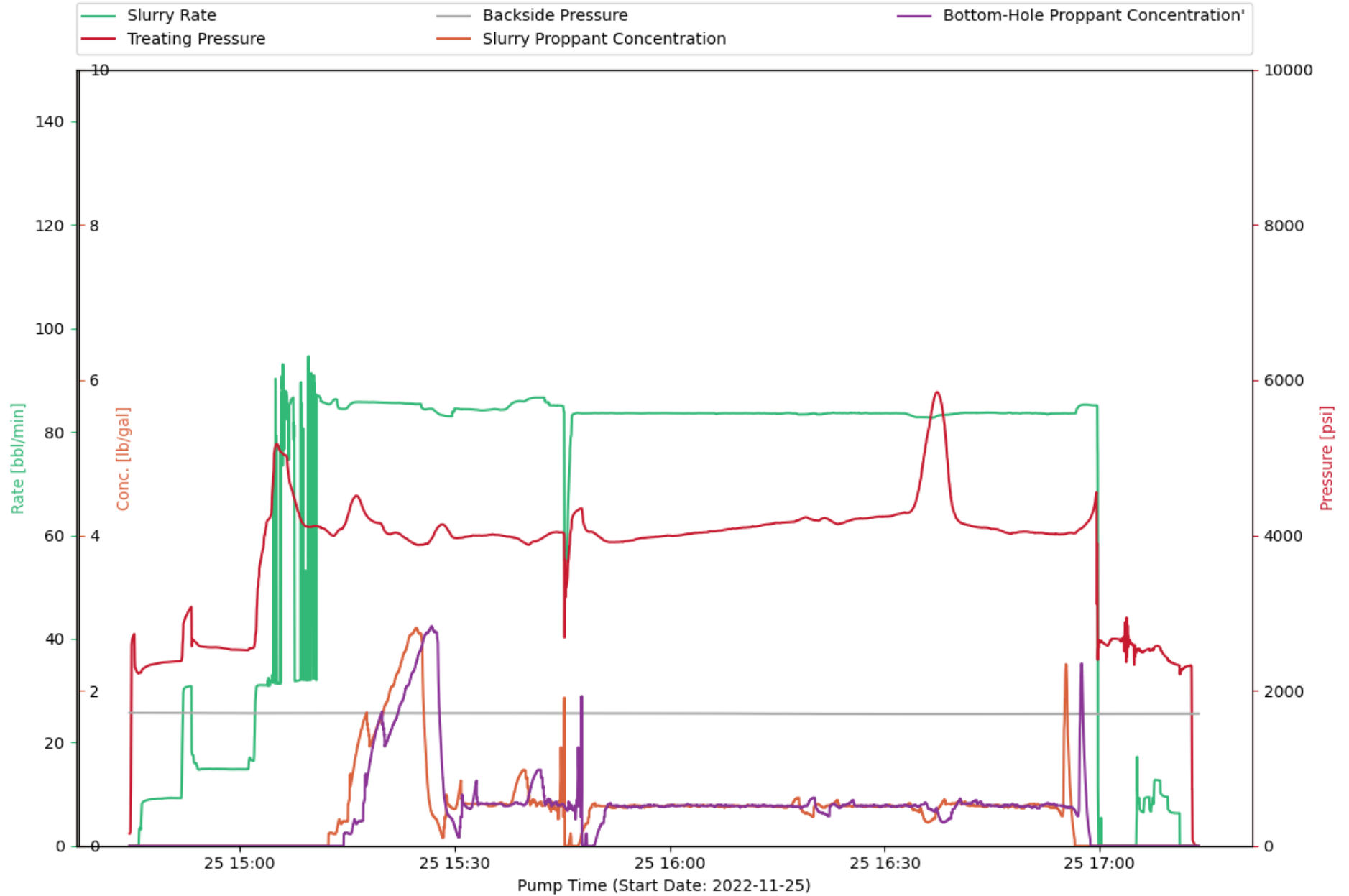
CHEMISTRY PLOT : Treatment Interval 46



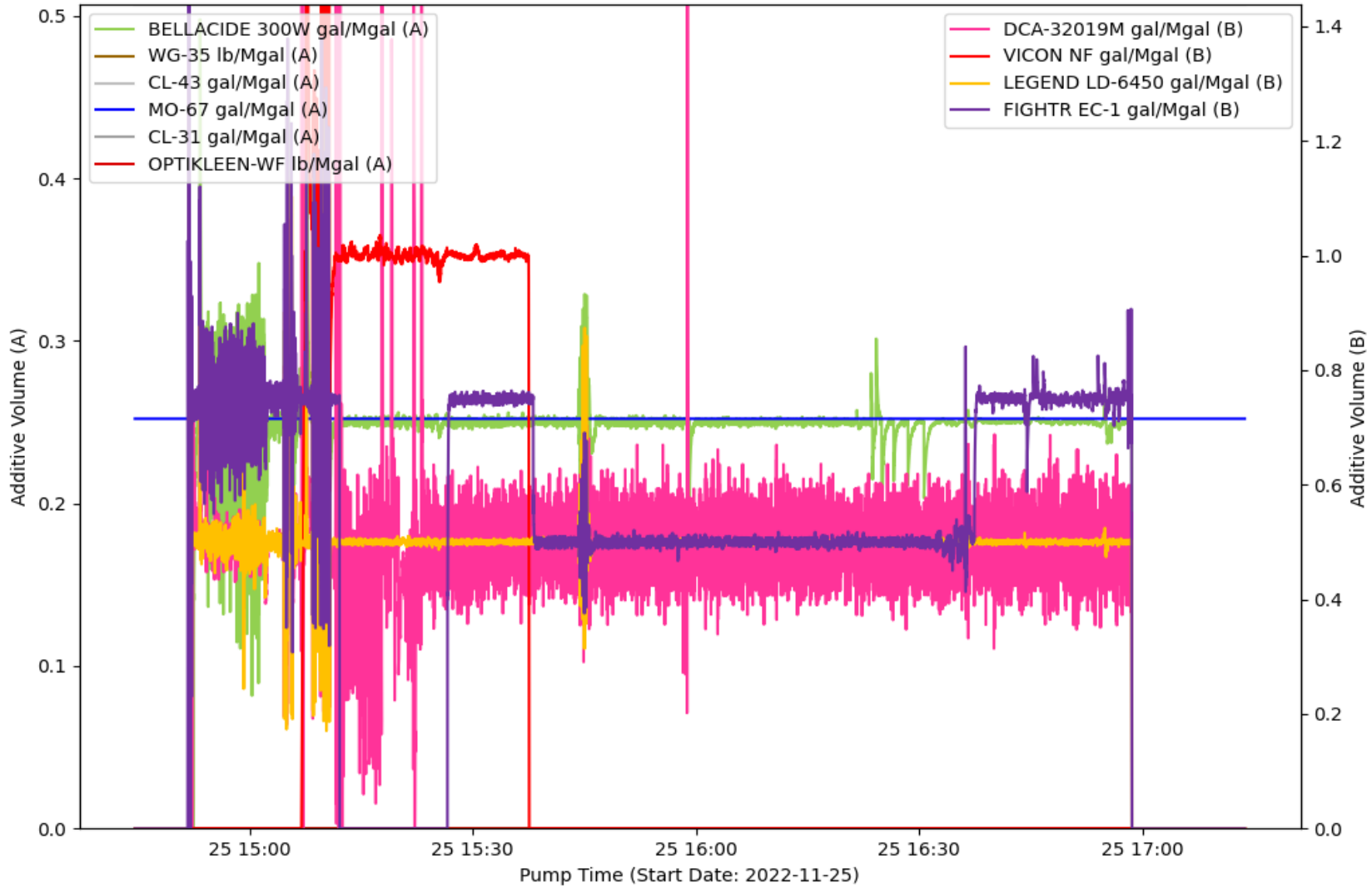
EVENT LOG : TREATMENT INTERVAL 46

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	Resuming Job	2022-11-25T11:40:37	0	14.33	0	0	0	0	0
2	End Avg Trt 45	2022-11-25T11:40:46	0	258.38	0	0	0	0	0
3	Start Avg Trt 46	2022-11-25T11:40:56	0	2690	0	0	0	0	0
4	Open Well	2022-11-25T11:41:19	0	2282	0	0	0	0	0
5	Start Pumping	2022-11-25T11:41:29	0	2256	0	0	0	0	0
6	Pump Acid	2022-11-25T11:43:16	10.15	2635	0	0	712.82	712.83	0
7	Ball on Seat	2022-11-25T11:51:21	15.31	2771	0	0	6828	6828	0
8	Break Formation	2022-11-25T11:51:46	15.29	3191	0	0	7098	7098	0
9	Pump Xlink Pill	2022-11-25T11:54:22	87.15	5530	0	0	12716	12716	0
10	Stop Pumping	2022-11-25T13:47:18	6.9	2571	0	0	403850	414700	239005
11	ISIP	2022-11-25T13:47:22	0	2526	0	0	403850	414700	239005
12	Shut In Well	2022-11-25T13:48:21	0	2456	0	0	403850	414700	239005

TREATMENT PLOT : Treatment Interval 47



CHEMISTRY PLOT : Treatment Interval 47



EVENT LOG : TREATMENT INTERVAL 47

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	2022-11-25T14:45:37	0	2247	0	0	0	0	0
2	Start Pumping	2022-11-25T14:45:53	0	2226	0	0	0	0	0
3	Pump Acid	2022-11-25T14:47:55	9.03	2338	0	0	654.93	654.94	0
4	Ball on Seat	2022-11-25T15:00:26	14.81	2524	0	0	8393	8393	0
5	Break Formation	2022-11-25T15:00:59	14.82	2520	0	0	8739	8739	0
6	Pump Xlink Pill	2022-11-25T15:07:43	31.84	4444	0	0	21523	21523	0
7	Stop Pumping	2022-11-25T16:59:50	2.45	2557	0	0	401066	411452	228811
8	ISIP	2022-11-25T16:59:54	0	2633	0	0	401066	411452	228811
9	Pump Brine Water	2022-11-25T17:03:14	0	2655	0	0	401075	411462	228811
10	Shut In Well	2022-11-25T17:12:48	0	2316	0	0	403272	413659	228811

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

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