



WELL STIMULATION REPORT

D90 Energy LLC

DAMFINO 0680 8-6H31

05-057-06621-00

December 23, 2022

Engineering Executive Summary

On Tuesday, November 01, 2022 the stimulation of treatment(s) was performed in the Niobrara formation on the DAMFINO 0680 8-6H31 well in JACKSON county, COLORADO.

The proposed treatment(s) consisted of:

44,000	gallons of	15% HCl
17,574,661	gallons of	FR Water (FightR EC-1)
2,387,500	gallons of	Hybor G 25#
0	gallons of	Treated Water
135,985	pounds of	100 Mesh Premium White
10,524,125	pounds of	30/50 Premium White

The actual treatment(s) consisted of:

43,970	gallons of	15% HCl
14,557,885	gallons of	FR Water (FightR EC-1)
2,327,909	gallons of	Hybor G 25#
577,668	gallons of	Treated Water
410,880	pounds of	100 Mesh Premium White
7,917,600	pounds of	30/50 Premium White

25 of 44 treatment(s) were fully completed. 0 treatment(s) were skipped, and 19 treatment(s) were screened out or otherwise cut short of design.

The well was first opened Tuesday, November 01, 2022 at 12:52 with an opening pressure of 39.0 psi.

The total amount of proppant pumped was 8,328,480.0 lbm with an average concentration of 0.52 ppg and maximum concentration of 2.7 ppg. Treating pressure averaged 5817.7 psi and rate averaged 74.84 bpm.

The operation came offline at 22:17 and the well was shut in Thursday, November 24, 2022 at 22:28 with a final shut-in pressure of 2,812.42 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	16477	16671	16683	6870	42	7	31	60	908204425
2	16259	16453	16465	6873	42	7	31	60	908204425
3	16041	16235	16247	6875	42	7	31	60	908204425
4	15823	16017	16029	6876	42	7	31	60	908204425
5	15605	15799	15811	6875	42	7	31	60	908204425
6	15387	15581	15593	6869	42	7	31	60	908204425
7	15169	15363	15375	6862	54	7	31	60	908204425
8	14951	15145	15157	6860	54	7	31	60	908204425
9	14733	14927	14939	6866	54	7	31	60	908204425
10	14515	14709	14721	6871	54	7	31	60	908204425
11	14297	14491	14503	6880	54	7	31	60	908204425
12	14079	14273	14285	6901	54	7	31	60	908204425
13	13861	14055	14067	6905	54	7	31	60	908204425
14	13643	13837	13849	6907	54	7	31	60	908204425
15	13425	13619	13631	6908	54	7	31	60	908204425
16	13207	13401	13413	6903	54	7	31	60	908204425
17	12989	13183	13195	6900	54	7	31	60	908204425
18	12771	12965	12977	6896	54	7	31	60	908204425
19	12553	12747	12759	6890	54	7	31	60	908204425
20	12335	12529	12541	6880	54	7	31	60	908204425
21	12117	12311	12323	6868	54	7	31	60	908204425
22	11899	12093	12105	6864	54	7	31	60	908204425

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	11681	11875	11887	6862	54	7	31	60	908204425
24	11463	11657	11669	6862	54	7	31	60	908204425
25	11245	11439	11451	6860	54	7	31	60	908204425
26	11027	11221	11233	6861	54	7	31	60	908204425
27	10809	11003	11015	6860	54	7	31	60	908204425
28	10591	10785	10797	6849	54	7	31	60	908204425
29	10373	10567	10579	6840	54	7	31	60	908204425
30	10155	10349	10361	6834	54	7	31	60	908204425
31	9937	10131	10143	6826	54	7	31	60	908204425
32	9719	9913	9925	6818	54	7	31	60	908204425
33	9501	9695	9707	6807	54	7	31	60	908204425
34	9283	9477	9489	6790	54	7	31	60	908204425
35	9065	9259	9271	6782	54	7	31	60	908204425
36	8847	9041	9053	6778	54	7	31	60	908204425
37	8629	8823	8835	6778	54	7	31	60	908204425
38	8411	8605	8617	6764	54	7	31	60	908204425
39	8193	8387	8399	6751	54	7	31	60	908204425
40	7975	8169	8181	6741	54	7	31	60	908204425
41	7757	7951	7963	6714	54	7	31	60	908204425
42	7539	7733	7745	6694	54	7	31	60	908204425
43	7321	7515	7527	6680	54	7	31	60	908204425
44	7103	7297	7309	6668	54	7	31	60	908204425

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	404197	233849	53500	0	0	25830	458697	260671	264406.8
2	1000	992	403994	204375	53500	37222	0	37044	458494	279633	282756.18
3	1000	992	402706	683208	75500	0	0	20580	479206	704780	715948.8
4	1000	992	403588	257098	53500	70247	0	19950	458088	348287	352817.22
5	1000	992	403385	522396	53500	42483	0	23604	457885	589475	601177.08
6	1000	992	403182	114576	53500	76579	0	20580	457682	212727	215386.92
7	1000	992	402979	367432	53500	119218	0	20748	457479	508390	517695.78
8	1000	992	401676	398535	63500	0	0	19236	466176	418763	429638.16
9	1000	992	401473	427925	63500	0	0	18186	465973	447103	457146.9
10	1000	992	401270	362192	63500	72913	0	20286	465770	456383	466985.82
11	1000	992	401067	276124	63500	69424	0	20286	465567	366826	372889.02
12	1000	992	400864	270659	63500	74487	0	19740	465364	365878	372914.22
13	1000	992	420111	276364	38500	55916	0	16884	459611	350156	356508.18
14	1000	992	400458	314140	63500	71673	0	16884	464958	403689	411947.76
15	1000	992	400255	312061	63500	0	0	15372	464755	328425	333815.16
16	1000	992	400052	189979	63500	75294	0	16590	464552	282855	287298.06
17	1000	992	399849	446436	63500	63174	0	16002	464349	526604	537902.82
18	1000	992	399646	350843	63500	59217	0	14238	464146	425290	435849.12
19	1000	992	399442	365702	63500	54649	0	14028	463942	435371	446126.1
20	1000	992	399239	193509	63500	0	0	11718	463739	206219	210548.94
21	1000	992	400136	277020	60000	0	0	12474	461136	290486	296272.62
22	1000	992	399933	143875	48500	59884	0	12474	449433	217225	221559.24

FLUID SYSTEM SUMMARY

Treatment Interval	15% HCl		FR Water (FightR EC-1)		Hybor G 25#		Treated Water		Total Fluid		Slurry Volume
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Pumped (gal)
23	1000	992	398630	486090	63500	0	0	11760	463130	498842	510415.5
24	1000	992	398427	357317	48500	0	0	11550	447927	369859	376934.04
25	1000	992	399324	288407	48500	0	0	12180	448824	301579	303973.74
26	1000	992	399121	286537	48500	62410	0	12432	448621	362371	368626.02
27	1000	992	397818	302517	48500	92096	0	10500	447318	406105	411543.3
28	1000	992	397615	330884	48500	75165	0	10794	447115	417835	425554.5
29	1000	992	397412	198816	48500	93990	0	9240	446912	303038	311366.16
30	1000	992	397209	516767	48500	3848	0	9282	446709	530889	541236.36
31	1000	992	397006	339580	48500	86857	0	9198	446506	436627	447498.24
32	1000	1000	396803	326024	48500	70002	0	6888	446303	403914	414497.16
33	1000	1000	396600	316318	48500	69225	0	7434	446100	393977	404819.1
34	1000	1000	396397	357439	48500	60232	0	11004	445897	429675	440380.08
35	1000	992	396194	340433	48500	77111	0	6216	445694	424752	434755.44
36	1000	992	395991	381660	48500	72575	0	6594	445491	461821	472452.96
37	1000	992	395787	341142	48500	65607	0	5544	445287	413285	423713.64
38	1000	992	395584	376495	48500	74922	0	4746	445084	457155	468816.18
39	1000	992	395381	352395	48500	67353	0	4116	444881	424856	436080.96
40	1000	992	395178	318893	48500	76190	0	4242	444678	400317	410775.54
41	1000	992	394975	325032	48500	81004	0	3528	444475	410556	420920.64
42	1000	1141	394772	335328	48500	71062	0	2982	444272	410513	420952.56
43	1000	1141	394569	376929	48500	58152	0	2226	444069	438448	449859.48
44	1000	992	394366	314584	48500	67728	0	2478	443866	385782	396354.84

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)
Total	44000	43970	17574661	14557885	2387500	2327909	0	577668	20006161	17507432	17879117.34

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	5625	42660	238875	39980	244500	82640
2	5700	6560	238875	55980	244575	62540
3	10260	74560	238875	179160	249135	253720
4	5700	42700	238875	57300	244575	100000
5	5700	40020	238875	222820	244575	262840
6	5700	39900	238875	39460	244575	79360
7	5700	6920	238875	197960	244575	204880
8	5700	8000	238875	233960	244575	241960
9	5700	6000	238875	235040	244575	241040
10	5700	40480	238875	200280	244575	240760
11	5700	41740	238875	95060	244575	136800
12	5700	40840	238875	119560	244575	160400
13	17500	20500	238125	119500	255625	140000
14	5700	0	238875	186380	244575	186380
15	5700	0	238875	112240	244575	112240
16	5700	0	238875	91820	244575	91820
17	5700	0	238875	260000	244575	260000
18	5700	0	238875	235200	244575	235200
19	5700	0	238875	243640	244575	243640
20	5700	0	238875	95500	244575	95500
21	0	0	253250	128000	253250	128000
22	0	0	238875	92940	238875	92940

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	5700	0	238875	243320	244575	243320
24	0	0	238875	156540	238875	156540
25	0	0	238875	55500	238875	55500
26	0	0	238875	142500	238875	142500
27	0	0	238875	119020	238875	119020
28	0	0	238875	182820	238875	182820
29	0	0	238875	195580	238875	195580
30	0	0	238875	228700	238875	228700
31	0	0	238875	234200	238875	234200
32	0	0	238875	241980	238875	241980
33	0	0	238875	240400	238875	240400
34	0	0	238875	241900	238875	241900
35	0	0	238875	239900	238875	239900
36	0	0	238875	241800	238875	241800
37	0	0	238875	234860	238875	234860
38	0	0	238875	244920	238875	244920
39	0	0	238875	252560	238875	252560
40	0	0	238875	234600	238875	234600
41	0	0	238875	237680	238875	237680
42	0	0	238875	234120	238875	234120
43	0	0	238875	240500	238875	240500
44	0	0	238875	232420	238875	232420

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)
Total	135985	410880	10524125	7917600	10660110	8328480

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	114.42	73	16.05	27	53.5	78	228.85	115	404.2	133	228.85	123
2	504	500	114.37	78	16.05	13	53.5	38	228.75	118	403.99	159	228.75	127
3	504	500	119.55	190	22.65	21	75.5	59	239.1	346	402.71	749	239.1	361
4	504	500	114.27	90	16.05	25	53.5	71	228.54	160	403.59	217	228.54	165
5	504	500	114.22	151	16.05	13	53.5	32	228.44	278	403.38	368	228.44	286
6	504	500	114.17	55	16.05	26	53.5	74	228.34	92	403.18	130	228.34	86
7	504	500	114.12	126	16.05	39	53.5	119	228.24	238	402.98	365	228.24	247
8	504	500	116.29	107	19.05	25	63.5	70	232.59	195	401.68	250	232.59	204
9	504	500	116.24	115	19.05	25	63.5	71	232.49	211	401.47	319	232.49	216
10	504	500	116.19	116	19.05	25	63.5	71	232.38	212	401.27	368	232.38	217
11	504	500	116.14	94	19.05	23	63.5	65	232.28	170	401.07	300	232.28	173
12	504	500	116.09	95	19.05	26	63.5	76	232.18	170	400.86	260	232.18	175
13	504	500	114.65	88	11.55	20	38.5	56	229.31	160	420.11	210	229.31	164
14	504	500	115.99	101	19.05	19	63.5	54	231.98	186	400.46	278	231.98	190
15	504	500	115.94	70	19.05	24	63.5	68	231.88	150	400.26	256	231.88	154
16	504	500	115.89	71	19.05	17	63.5	48	231.78	127	400.05	216	231.78	131
17	504	500	115.84	131	19.05	21	63.5	60	231.67	254	399.85	420	231.67	250
18	504	500	115.79	106	19.05	19	63.5	54	231.57	198	399.65	322	231.57	202
19	504	500	115.74	105	19.05	19	63.5	55	231.47	210	399.44	299	231.47	203
20	504	500	115.68	54	19.05	19	63.5	64	231.37	110	399.24	106	231.37	100
21	504	500	115.03	72	18	21	60	69	230.07	133	400.14	155	230.07	136
22	504	500	112.11	55	14.55	17	48.5	57	224.22	99	399.93	163	224.22	101

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	115.53	126	19.05	16	63.5	55	231.06	240	398.63	394	231.06	243
24	504	500	111.73	90	14.55	17	48.5	55	223.46	171	398.43	269	223.46	171
25	504	500	111.96	77	14.55	15	48.5	50	223.91	141	399.32	202	223.91	144
26	504	500	111.91	92	14.55	19	48.5	63	223.81	172	399.12	232	223.81	168
27	504	500	111.58	102	14.55	18	48.5	60	223.16	194	397.82	301	223.16	197
28	504	500	111.53	105	14.55	22	48.5	72	223.06	200	397.62	255	223.06	202
29	504	500	111.48	75	14.55	27	48.5	90	222.96	248	397.41	171	222.96	144
30	504	500	111.43	132	14.55	19	48.5	62	222.85	255	397.21	349	222.85	255
31	504	500	111.38	106	14.55	25	48.5	83	222.75	209	397.01	315	222.75	156
32	504	500	111.33	102	14.55	20	48.5	70	222.65	195	396.8	295	222.65	198
33	504	500	111.28	95	14.55	20	48.5	65	222.55	190	396.6	285	222.55	190
34	504	500	111.22	103	14.55	18	48.5	58	222.45	206	396.4	312	222.45	206
35	504	500	111.17	104	14.55	24	48.5	75	222.35	209	396.19	203	222.35	209
36	504	500	111.12	112	14.55	23	48.5	75	222.25	225	395.99	315	222.25	220
37	504	500	111.07	106	14.55	19	48.5	63	222.14	205	395.79	305	222.14	210
38	504	500	111.02	109	14.55	23	48.5	78	222.04	218	395.58	291	222.04	218
39	504	550	110.97	105	14.55	20	48.5	68	221.94	210	395.38	204	221.94	210
40	504	500	110.92	100	14.55	22	48.5	74	221.84	195	395.18	200	221.84	195
41	504	500	110.87	101	14.55	23	48.5	59	221.74	201	394.98	290	221.74	201
42	504	575	110.82	100	14.55	20	48.5	100	221.64	204	394.77	268	221.64	201
43	504	575	110.77	107	14.55	18	48.5	60	221.53	221	394.57	287	221.53	216
44	504	575	110.72	90	14.55	20	48.5	66	221.43	185	394.37	280	221.43	165

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)
Total	22176	22275	4990.54	4382	716.25	932	2387.5	2910	9981.07	8426	17574.68	12066	9981.07	8330

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	31	404.2	165	53.5	81	1337.5	1787
2	21.4	14	403.99	165	53.5	40	1337.5	895
3	30.2	24	402.71	770	75.5	61	1887.5	1407
4	21.4	29	403.59	220	53.5	70	1337.5	1693
5	21.4	15	403.38	385	53.5	44	1337.5	974
6	21.4	30	403.18	165	53.5	78	1337.5	1800
7	21.4	47	402.98	330	53.5	120	1337.5	2757
8	25.4	28	401.68	220	63.5	73	1587.5	1663
9	25.4	32	401.47	330	63.5	70	1587.5	1823
10	25.4	29	401.27	385	63.5	80	1587.5	1737
11	25.4	25	401.07	330	63.5	81	1587.5	1655
12	25.4	30	400.86	275	63.5	82	1587.5	1963
13	15.4	23	420.11	220	38.5	56	962.5	1382
14	25.4	17	400.46	220	63.5	66	1587.5	1495
15	25.4	29	400.26	275	63.5	80	1587.5	1779
16	25.4	20	400.05	220	63.5	54	1587.5	1560
17	25.4	25	399.85	385	63.5	60	1587.5	1491
18	25.4	22	399.65	275	63.5	58	1587.5	1425
19	25.4	22	399.44	275	63.5	59	1587.5	1274
20	25.4	26	399.24	55	63.5	67	1587.5	1791
21	24	28	400.14	165	60	78	1500	1681
22	19.4	24	399.93	165	48.5	72	1212.5	1472

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	25.4	22	398.63	385	63.5	59	1587.5	1393
24	19.4	22	398.43	275	48.5	57	1212.5	1319
25	19.4	20	399.32	165	48.5	62	1212.5	1041
26	19.4	25	399.12	220	48.5	69	1212.5	1499
27	19.4	25	397.82	330	48.5	79	1212.5	2044
28	19.4	29	397.62	275	48.5	73	1212.5	1870
29	19.4	47	397.41	165	48.5	116	1212.5	2215
30	19.4	28	397.21	330	48.5	74	1212.5	1837
31	19.4	34	397.01	330	48.5	85	1212.5	1967
32	19.4	30	396.8	330	48.5	75	1212.5	1492
33	19.4	30	396.6	275	48.5	70	1212.5	1481
34	19.4	26	396.4	275	48.5	64	1212.5	1274
35	19.4	31	396.19	165	48.5	79	1212.5	1533
36	19.4	32	395.99	330	48.5	93	1212.5	1643
37	19.4	21	395.79	330	48.5	70	1212.5	1350
38	19.4	38	395.58	220	48.5	96	1212.5	1436
39	19.4	27	395.38	220	48.5	75	1212.5	1315
40	19.4	32	395.18	220	48.5	80	1212.5	1436
41	19.4	33	394.98	220	48.5	82	1212.5	1745
42	19.4	52	394.77	220	48.5	147	1212.5	1430
43	19.4	24	394.57	220	48.5	66	1212.5	1152
44	19.4	29	394.37	275	48.5	75	1212.5	1309

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)
Total	955	1227	17574.68	11770	2387.5	3276	59687.5	69285

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	Cut	6522	70	0.76	9293	75.44	2.5
2	Cut	6733	64.3	0.34	8133	85.16	0.76
3	Completed	5856	62	0.37	8873	79.93	0.85
4	Cut	7014	70	0.27	8160	75.33	0.75
5	Completed	6293	69	0.47	7500	69.55	2.5
6	Cut	7341	68	0.75	8662	74.29	2.5
7	Completed	4597	47.4	0.54	7454	92.23	1.04
8	Completed	5784	70.7	0.54	7564	85.94	1.08
9	Completed	6262	77.93	0.52	8053	85.02	2.5
10	Completed	6613	84	0.53	7714	85.43	2.5
11	Cut	6860	82	0.39	8063	84.95	2.5
12	Cut	6230	81	0.45	8911	82.27	2.5
13	Cut	6052	68.1	0.47	8440	80.61	1.32
14	Cut	5542	69.1	0.5	7462	81.58	1.71
15	Cut	6976	80	0.37	9164	82.87	1.25
16	Cut	6457	81	0.37	8526	81.45	1.25
17	Completed	6196	83	0.59	7351	83.64	1.1
18	Completed	5595	71.6	0.62	7269	80.91	1.31
19	Completed	5721	66.8	0.55	7593	80.58	1.55
20	Cut	6354	65.9	0.4	7741	80	1.55
21	Cut	5489	54	0.33	8214	83.01	1.25
22	Cut	6347	72.8	0.46	7911	77.07	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	6153	71.6	0.5	8446	80.4	1.52
24	Cut	6182	67	0.46	8350	80.62	1.53
25	Cut	6388	65.4	0.2	7925	80.54	0.71
26	Cut	6073	72	0.59	9326	90.09	1.54
27	Cut	6580	85.8	0.58	9223	90.87	2.5
28	Cut	6310	82.8	0.59	8753	91.05	2.5
29	Cut	5811	74.9	0.54	8516	90.97	2.22
30	Completed	5698	79.7	0.59	8987	90.4	2.1
31	Completed	5386	82.6	0.61	7824	84.44	2.5
32	Completed	5471	84.8	0.61	8427	92.55	2.5
33	Completed	5143	83.4	0.62	5990	90.44	2.5
34	Completed	4842	78.7	0.59	5969	86.34	2.54
35	Completed	4951	75.8	0.54	6083	85.44	2.23
36	Completed	5302	84	0.63	6619	91.13	2.5
37	Completed	4921	82	0.61	6285	86.26	2.5
38	Completed	4756	78.4	0.6	6686	85.56	2.7
39	Completed	4964	83	0.59	6596	87.15	2.5
40	Completed	5149	84	0.61	8367	85.89	2.5
41	Completed	5159	76.8	0.62	6608	89.73	2.5
42	Completed	4843	78	0.6	6031	85.42	2.5
43	Completed	4475	78.6	0.58	6990	86.23	2.5
44	Completed	4587	85	0.62	7501	87.36	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	3691	10
2	354.52	4155	15.24	4271	15.23
3	365.75	4276	15.17	4045	15.15
4	342.34	4139	15.23	4565	15.18
5	346.13	4312	15.16	4494	15.17
6	332.58	3915	15.15	4007	15.15
7	331.26	3807	15.14	4011	15.13
8	348.52	3708	15.08	3592	15.07
9	318.42	3496	15.17	3669	15.14
10	324.13	3686	14.92	3801	15.03
11	320.11	3626	15.18	3705	15.17
12	318.99	3964	14.99	4174	15
13	301.27	3789	15.16	4185	15.1
14	286.5	3760	15.15	3833	15.12
15	301.24	4127	15.3	4394	15.29
16	0	0	0	0	0
17	308.88	3974	15.24	4843	26.77
18	296.57	3636	15.24	3678	15.22
19	282.07	4176	14.58	3726	14.61
20	269.26	4215	15.21	4220	15.22
21	269.29	3908	15.19	4164	15.19
22	295.51	4029	16.13	4031	16.13

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	271.28	3915	14.8	3972	14.79
24	255.03	3999	15.17	4665	15.16
25	256.1	3905	15.24	3984	15.25
26	239.55	3906	15.25	4198	15.24
27	246.31	4121	15.24	4264	15.23
28	231.78	3911	15.23	4053	15.21
29	224.67	3766	15.17	4238	15.64
30	224.59	4258	15.06	4868	15.01
31	242.26	4004	15.08	4020	15.05
32	211.54	3777	15.16	4375	15.1
33	213.7	3030	14.89	3157	14.89
34	211.32	2972	14.93	2978	14.91
35	198.91	3253	14.89	3819	14.87
36	200.14	3165	15.15	3874	15.11
37	187.87	3373	15.18	3775	16.23
38	194.95	3338	15.47	3990	15.39
39	174.97	3474	14.97	4242	14.93
40	174.42	3562	15.18	3987	15.17
41	171.08	3619	15.18	4505	14.98
42	167.81	3566	15.16	4044	15.34
43	163.58	3219	15.24	3605	15.24
44	155.47	3297	15.16	3358	15.16

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	39	4247	1.05	0	0	0	0	3084
2	1761	3970	1.01	0	0	0	0	3767
3	3424	3866	1	0	0	0	0	3727
4	2910	3957	1.01	0	0	0	0	3831
5	2683	3672	0.97	0	0	0	0	3396
6	2477	3770	0.98	0	0	0	0	3578
7	2731	3450	0.94	0	0	0	0	3207
8	2645	3408	0.93	0	0	0	0	3342
9	2604	3523	0.95	0	0	0	0	3330
10	2216	3753	0.98	0	0	0	0	3318
11	2377	3294	0.91	0	0	0	0	3024
12	2418	3407	0.93	0	0	0	0	3232
13	2390	3530	0.94	0	0	0	0	3242
14	2232	3198	0.9	0	0	0	0	3019
15	2264	3854	0.99	0	0	0	0	3507
16	2562	3331	0.92	0	0	0	0	3270
17	2503	3722	0.97	0	0	0	0	3447
18	2662	3346	0.92	0	0	0	0	3286
19	2869	3059	0.88	0	0	0	0	3056
20	2007	3699	0.97	0	0	0	0	3423
21	2656	3787	0.98	0	0	0	0	3513
22	2031	4042	1.02	0	0	0	0	0

PRESSURE TECHNICAL DATA

Treatment Interval	Open Well Pressure (psi)	Initial Shut In Pressure (psi)	Fracture Gradient (psi/ft)	Max Annulus Pressure (psi)	5 Min Pressure (psi)	10 Min Pressure (psi)	15 Min Pressure (psi)	Final Shut In Pressure (psi)
23	2438	3932	1.01	0	0	0	0	3931
24	2345	4126	1.03	0	4125	4125	4125	3442
25	1946	3659	0.97	0	0	0	0	3226
26	2226	3237	0.9	0	0	0	0	2941
27	2016	3085	0.88	0	0	0	0	2800
28	1802	3319	0.92	0	0	0	0	3157
29	1951	3066	0.88	0	0	0	0	2853
30	1464	2687	0.83	0	0	0	0	2642
31	2023	2800	0.84	0	0	0	0	2730
32	1933	2816	0.85	0	0	0	0	2754
33	2540	2828	0.85	0	0	0	0	2802
34	2533	2961	0.87	0	0	0	0	2884
35	2413	2697	0.83	0	0	0	0	2696
36	2632	2936	0.87	0	0	0	0	2930
37	2571	3337	0.92	0	2990	2925	0	2771
38	2500	3064	0.89	0	0	0	0	2918
39	2558	3234	0.91	0	0	0	0	2940
40	2611	3204	0.91	0	0	0	0	2930
41	2436	3156	0.9	0	0	0	0	2801
42	2627	3110	0.9	0	0	0	0	2965
43	2489	3041	0.89	0	0	0	0	2839
44	2594	3141	0.9	0	2977	2817	0	2812

TREATMENT TIME TECHNICAL DATA

Treatment Interval	Start Date (YYYY-MM-DD)	Well Open Time (YYYY-MM-DD hh-mm-ss)	Start Time (YYYY-MM-DD hh-mm-ss)	End Time (YYYY-MM-DD hh-mm-ss)	Well Shut In Time (YYYY-MM-DD hh-mm-ss)	Total Pump Time (hh:mm:ss)	Down Time (hh:mm:ss)
1	2022-11-01T00:00:00	2022-11-01T12:52:13	2022-11-01T12:52:23	2022-11-01T14:27:01	2022-11-01T14:28:21	01:34:38	00:00:00
2	2022-11-01T00:00:00	2022-11-01T17:32:14	2022-11-01T17:32:23	2022-11-01T19:03:21	2022-11-01T19:04:16	01:30:58	00:00:00
3	2022-11-01T00:00:00	2022-11-01T21:23:28	2022-11-01T21:23:28	2022-11-02T01:50:15	2022-11-02T01:51:16	04:26:47	00:00:00
4	2022-11-02T00:00:00	2022-11-02T03:41:00	2022-11-02T03:41:05	2022-11-02T05:53:42	2022-11-02T05:55:08	02:12:37	00:00:00
5	2022-11-02T00:00:00	2022-11-02T09:00:56	2022-11-02T09:01:13	2022-11-02T12:36:49	2022-11-02T12:37:44	03:35:36	00:00:00
6	2022-11-02T00:00:00	2022-11-02T14:28:15	2022-11-02T14:28:40	2022-11-02T15:49:55	2022-11-02T15:50:57	01:21:15	00:00:00
7	2022-11-02T00:00:00	2022-11-02T17:44:01	2022-11-02T17:44:07	2022-11-02T21:53:39	2022-11-02T21:55:06	04:09:32	00:00:00
8	2022-11-02T00:00:00	2022-11-02T23:23:15	2022-11-02T23:23:22	2022-11-03T01:41:31	2022-11-03T01:42:16	02:18:09	00:00:00
9	2022-11-03T00:00:00	2022-11-03T03:21:16	2022-11-03T03:21:24	2022-11-03T05:46:48	2022-11-03T05:49:17	02:25:24	00:00:00
10	2022-11-03T00:00:00	2022-11-03T07:35:03	2022-11-03T07:35:24	2022-11-03T09:56:51	2022-11-03T09:58:55	02:21:27	00:00:00
11	2022-11-03T00:00:00	2022-11-03T11:38:55	2022-11-03T11:39:04	2022-11-03T13:37:41	2022-11-03T13:39:04	01:58:37	00:00:00
12	2022-11-03T00:00:00	2022-11-03T15:24:07	2022-11-03T15:27:34	2022-11-03T17:28:42	2022-11-03T17:29:37	02:01:08	00:00:00
13	2022-11-03T00:00:00	2022-11-03T19:05:00	2022-11-03T19:05:32	2022-11-03T21:04:15	2022-11-03T21:05:35	01:58:43	00:00:00
14	2022-11-03T00:00:00	2022-11-03T23:27:39	2022-11-03T23:28:02	2022-11-04T01:44:11	2022-11-04T01:45:54	02:16:09	00:00:00
15	2022-11-04T00:00:00	2022-11-04T06:40:42	2022-11-04T06:40:50	2022-11-04T08:27:27	2022-11-04T08:28:22	01:46:37	00:00:00
16	2022-11-04T00:00:00	2022-11-04T11:10:48	2022-11-04T11:11:12	2022-11-04T12:45:08	2022-11-04T12:45:43	01:33:56	00:00:00
17	2022-11-04T00:00:00	2022-11-04T14:19:43	2022-11-04T14:20:09	2022-11-04T17:03:46	2022-11-04T17:04:43	02:43:37	00:00:00
18	2022-11-04T00:00:00	2022-11-04T18:30:14	2022-11-04T18:30:21	2022-11-04T20:50:38	2022-11-04T20:51:57	02:20:17	00:00:00
19	2022-11-04T00:00:00	2022-11-04T22:26:00	2022-11-04T22:26:13	2022-11-05T01:00:13	2022-11-05T01:00:15	02:34:00	00:00:00
20	2022-11-07T00:00:00	2022-11-07T19:16:28	2022-11-07T19:16:34	2022-11-07T20:31:20	2022-11-07T20:32:39	01:14:46	00:00:00
21	2022-11-08T00:00:00	2022-11-08T02:02:36	2022-11-08T02:02:47	2022-11-08T04:07:09	2022-11-08T04:08:31	02:04:22	00:00:00
22	2022-11-08T00:00:00	2022-11-08T12:16:34	2022-11-08T12:17:01	2022-11-08T13:44:07	2022-11-08T13:48:23	01:27:06	00:00:00

TREATMENT TIME TECHNICAL DATA

Treatment Interval	Start Date (YYYY-MM-DD)	Well Open Time (YYYY-MM-DD hh-mm-ss)	Start Time (YYYY-MM-DD hh-mm-ss)	End Time (YYYY-MM-DD hh-mm-ss)	Well Shut In Time (YYYY-MM-DD hh-mm-ss)	Total Pump Time (hh:mm:ss)	Down Time (hh:mm:ss)
23	2022-11-08T00:00:00	2022-11-08T21:04:07	2022-11-08T21:04:17	2022-11-08T23:50:25	2022-11-08T23:51:12	02:46:08	00:00:00
24	2022-11-09T00:00:00	2022-11-09T02:27:25	2022-11-09T02:27:33	2022-11-09T04:59:07	2022-11-09T05:00:27	02:31:34	00:00:00
25	2022-11-09T00:00:00	2022-11-09T20:47:21	2022-11-09T20:47:30	2022-11-09T22:31:17	2022-11-09T22:33:08	01:43:47	00:00:00
26	2022-11-10T00:00:00	2022-11-10T01:17:32	2022-11-10T01:17:37	2022-11-10T03:15:24	2022-11-10T03:16:43	01:57:47	00:00:00
27	2022-11-10T00:00:00	2022-11-10T05:47:10	2022-11-10T05:47:38	2022-11-10T08:00:06	2022-11-10T08:01:38	02:12:28	00:00:00
28	2022-11-10T00:00:00	2022-11-10T11:27:23	2022-11-10T11:27:58	2022-11-10T13:41:12	2022-11-10T13:42:06	02:13:14	00:00:00
29	2022-11-10T00:00:00	2022-11-10T16:15:57	2022-11-10T16:16:21	2022-11-10T17:52:26	2022-11-10T17:54:31	01:36:05	00:00:00
30	2022-11-13T00:00:00	2022-11-13T22:10:20	2022-11-13T22:10:32	2022-11-14T02:38:39	2022-11-14T02:40:40	04:28:07	00:00:00
31	2022-11-16T00:00:00	2022-11-16T08:33:26	2022-11-16T08:34:42	2022-11-16T10:55:12	2022-11-16T10:56:11	02:20:30	00:00:00
32	2022-11-21T00:00:00	2022-11-21T18:33:21	2022-11-21T18:33:52	2022-11-21T20:38:46	2022-11-21T20:39:39	02:04:54	00:00:00
33	2022-11-21T00:00:00	2022-11-21T23:14:22	2022-11-21T23:14:54	2022-11-22T01:21:31	2022-11-22T01:22:26	02:06:37	00:00:00
34	2022-11-22T00:00:00	2022-11-22T04:00:26	2022-11-22T04:01:09	2022-11-22T06:13:31	2022-11-22T06:14:37	02:12:22	00:00:00
35	2022-11-22T00:00:00	2022-11-22T10:17:28	2022-11-22T10:17:43	2022-11-22T12:33:09	2022-11-22T12:34:03	02:15:26	00:00:00
36	2022-11-22T00:00:00	2022-11-22T16:08:36	2022-11-22T16:08:47	2022-11-22T18:31:35	2022-11-22T18:32:20	02:22:48	00:00:00
37	2022-11-22T00:00:00	2022-11-22T21:50:07	2022-11-22T21:51:11	2022-11-23T00:04:05	2022-11-23T00:14:44	02:12:54	00:00:00
38	2022-11-23T00:00:00	2022-11-23T10:11:19	2022-11-23T10:11:29	2022-11-23T12:32:21	2022-11-23T12:33:15	02:20:52	00:00:00
39	2022-11-23T00:00:00	2022-11-23T16:07:32	2022-11-23T16:07:53	2022-11-23T18:22:11	2022-11-23T18:24:26	02:14:18	00:00:00
40	2022-11-23T00:00:00	2022-11-23T21:27:27	2022-11-23T21:27:33	2022-11-23T23:32:56	2022-11-23T23:34:11	02:05:23	00:00:00
41	2022-11-24T00:00:00	2022-11-24T04:25:13	2022-11-24T04:26:18	2022-11-24T06:36:19	2022-11-24T06:37:30	02:10:01	00:00:00
42	2022-11-24T00:00:00	2022-11-24T09:42:13	2022-11-24T09:42:19	2022-11-24T11:49:59	2022-11-24T11:50:55	02:07:40	00:00:00
43	2022-11-24T00:00:00	2022-11-24T14:54:23	2022-11-24T14:54:33	2022-11-24T17:10:10	2022-11-24T17:11:10	02:15:37	00:00:00
44	2022-11-24T00:00:00	2022-11-24T20:17:55	2022-11-24T20:18:21	2022-11-24T22:17:43	2022-11-24T22:28:33	01:59:22	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	Cut due to pressure	SplitFlow; WCU
2	0	60	0	Stage cut due to pressure	SplitFlow; WCU
3	0	60	0	Pumped to Completion	SplitFlow; WCU
4	0	60	0	Cut due to pressure	SplitFlow; WCU
5	0	60	0	Pumped to completion.	SplitFlow; WCU
6	0	60	0	Cut due to pressure.	SplitFlow; WCU
7	0	60	0	Pumped to Completion	SplitFlow; WCU
8	0	0	0	Pumped to completion	SplitFlow; WCU
9	0	0	0	Pumped to completion	SplitFlow; WCU
10	0	0	0	Pumped to completion.	SplitFlow; WCU
11	0	0	0	Cut due to pressure	SplitFlow; WCU
12	0	0	0	Cut due to pressure	SplitFlow; WCU
13	0	0	0	Stage cut due to pressure	SplitFlow; WCU
14	0	0	0	Stage cut due to pressure	SplitFlow; WCU
15	0	0	0	Cut due to pressure	SplitFlow; WCU
16	0	0	0	Cut due to pressure	SplitFlow; WCU
17	0	0	0	Pumped to completion.	SplitFlow; WCU
18	0	0	0	Pumped to Completion	SplitFlow; WCU
19	0	0	0	Pumped to Completion	SplitFlow; WCU
20	0	0	0	Cut due to pressure	SplitFlow; WCU
21	0	0	0	Stage cut due to pressure	SplitFlow; WCU
22	0	0	0	Cut Stage due to pressure	SplitFlow; WCU

QA / QC TECHNICAL DATA

Treatment Interval	Gel Viscosity (cP)	Fluid Temperature (F)	Gel pH	Interval Comments	Technology Application
23	0	0	0	Pumped to completion	SplitFlow; WCU
24	0	0	0	Cut due to pressure	SplitFlow; WCU
25	0	0	0	Stage cut due to pressure	SplitFlow; WCU
26	0	0	0	Stage cut due to pressure	SplitFlow; WCU
27	0	0	0	Cut sand due to pressure	SplitFlow; WCU
28	0	0	0	cut sand due to pressure	SplitFlow; WCU
29	0	0	0	Stage cut due to pressure	SplitFlow; WCU
30	0	0	0	Pumped to completion	SplitFlow; WCU
31	0	0	0	Pumped to completion	SplitFlow; WCU
32	0	40	0	Pumped to Completion.	SplitFlow; WCU
33	0	40	0	Pumped to Completion.	SplitFlow; WCU
34	0	40	0	Pumped to Completion.	SplitFlow; WCU
35	0	40	0	Pumped to completion	SplitFlow; WCU
36	0	40	0	Pumped to completion.	SplitFlow; WCU
37	0	40	0	Pumped to completion.	SplitFlow; WCU
38	0	40	0	Pumped to completion	SplitFlow; WCU
39	0	40	0	Pumped to completion.	SplitFlow; WCU
40	0	40	0	Pumped to completion.	SplitFlow; WCU
41	0	40	0	Pumped to completion	SplitFlow; WCU
42	0	40	0	Pumped to completion	SplitFlow; WCU
43	0	40	0	Pumped to completion	SplitFlow; WCU
44	0	40	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	16691	0.931

TREATMENT CUSTOM VARIABLES

Treatment Interval	Avg PSI	Avg Rate	ISIP	Max PSI	Max Rate
	PSI	BPM	PSI	PSI	BPM
1	6522	70	4247	9293	73
2	6733	64.3	3970	8133	85.2
3	5856	62	3866	8873	80
4	7014	70	3957	8160	75
5	6293	69	3672	6708	69
7	4597	47.4	3450	7454	92.2
8	5784	70.7	3408	7565	85.9
9	6010	72	3650	8054	85
10	6613	83	3753	7403	85
11	6860	82	3294	7699	85
12	6230	81	3407	8025	82
13	6052	68.1	3530	8440	80.6
14	5542	69.1	3198	7462	81.6
15	6976	80	3854	9025	83
16	6457	81	3331	8338	81.5
17	6196	83	3722	6698	83.5
18	5595	71.6	3346	7269	80.9
19	5721	66.8	3059	7593	80.6
20	6354	65.9	3699	7741	80
21	5489	54	3787	8214	83
22	6347	72.8	4033	7560	76.9
23	6153	71.6	3932	8446	80.4

TREATMENT CUSTOM VARIABLES

Treatment Interval	Avg PSI	Avg Rate	ISIP	Max PSI	Max Rate
	PSI	BPM	PSI	PSI	BPM
24	6182	67	4126	8350	80.6
25	6388	65.4	3659	7925	80.5
26	6073	72	3237	9326	90.1
27	6580	85.8	3071	9223	90.6
28	6310	82.8	3318	8065	90.7
29	5811	74.9	3066	8516	91
30	5698	79.7	2687	8987	90.4
31	5386	82.6	2800	5548	83.8
32	5471	84.8	2816	8427	92.5
33	5143	83.4	2828	5590	90.4
34	4842	78.7	2961	5969	86.3
35	4951	75.8	2938	6083	85.4
36	5302	84	3064	6619	91
37	4921	82	3337	5223	86
38	4756	78.4	3064	6686	85.5
40	5149	84	3204	5455	86
41	5159	76.8	3156	6608	89.7
42	4843	78	3110	6031	85.4
43	4475	78.6	3041	6990	86.2
44	4587	85	3141	4721	86

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	1140	20647	36219	435000	149956	1050	46534	0	0	0	0
2	1000	992	0	917	20444	20716	435000	134602	1050	53748	0	3798	0	0
3	1000	992	0	400	19156	19585	447000	493825	11050	21676	0	2326	0	0
4	1000	992	0	863	20038	92085	435000	180611	1050	31850	0	0	0	0
5	1000	992	0	929	19835	21941	435000	503815	1050	37235	0	959	0	0
6	1000	992	0	391	19632	27580	435000	106547	1050	43915	0	0	0	0
7	1000	992	0	754	19429	47300	435000	354960	1050	83636	0	0	0	0
8	1000	992	0	867	18126	18286	435000	344691	11050	31559	0	3132	0	0
9	1000	992	0	721	17923	22265	435000	373328	11050	31611	0	0	0	0
10	1000	992	0	629	17720	20204	435000	359511	11050	53888	0	873	0	0
11	1000	992	0	557	17517	60295	435000	202888	11050	71418	0	0	0	0
12	1000	992	0	709	17314	21368	435000	244995	11050	56668	0	0	0	0
13	1000	992	0	903	17111	26535	344500	228703	28000	66718	0	9421	0	0
14	1000	992	0	529	16908	39462	435000	295674	11050	46180	0	3968	0	0
15	1000	992	0	763	16705	25110	435000	210738	11050	52350	0	0	0	0
16	1000	992	0	6308	16502	78026	435000	152911	11050	28028	0	0	0	0
17	1000	992	0	587	16299	16992	435000	446881	11050	42059	0	3091	0	0
18	1000	992	0	1009	16096	16250	435000	358536	11050	33146	0	1119	0	0
19	1000	992	0	866	15892	28724	435000	359788	11050	29302	0	1671	0	0
20	1000	992	0	0	15689	30242	435000	142009	11050	21258	0	0	0	0
21	1000	992	0	804	16586	28328	431500	193687	11050	54201	0	0	0	0
22	1000	992	0	1394	16383	19843	420000	144044	11050	38478	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)
23	1000	992	0	606	15080	15424	435000	440464	11050	26505	0	3091	0	0
24	1000	992	0	862	14877	36060	420000	264590	11050	27666	0	0	0	0
25	1000	992	0	1012	15774	37350	420000	128307	11050	104372	0	1457	0	0
26	1000	992	0	942	15571	74370	420000	218565	11050	55070	0	0	0	0
27	1000	992	0	956	14268	111732	420000	214259	11050	67666	0	0	0	0
28	1000	992	0	843	14065	14225	420000	266323	11050	55207	0	2153	0	0
29	1000	992	0	962	13862	17799	420000	216463	11050	57582	0	0	0	0
30	1000	992	0	888	13659	20126	420000	376215	11050	99184	0	2080	0	0
31	1000	992	0	1327	13456	16926	420000	359817	11050	48367	0	0	0	0
32	1000	1000	0	478	13253	15138	420000	350529	11050	29881	0	0	0	0
33	1000	1000	0	594	13050	13038	420000	345014	11050	25310	0	1587	0	0
34	1000	1000	0	630	12847	18127	420000	371744	11050	27170	0	0	0	0
35	1000	992	0	843	12644	17938	420000	371103	11050	27660	0	0	0	0
36	1000	992	0	417	12441	40880	420000	381531	11050	29114	0	2293	0	0
37	1000	992	0	743	12237	12420	420000	367388	11050	23191	0	3007	0	0
38	1000	992	0	791	12034	12227	420000	378122	11050	57881	0	2396	0	0
39	1000	992	0	601	11831	12228	420000	378712	11050	25785	0	2422	0	0
40	1000	992	0	500	11628	11662	420000	344190	11050	35791	0	2940	0	0
41	1000	992	0	669	11425	19848	420000	354829	11050	30690	0	0	0	0
42	1000	1141	0	731	11222	15148	420000	358219	11050	32292	0	0	0	0
43	1000	1141	0	639	11019	15773	420000	398986	11050	19683	0	0	0	0
44	1000	992	0	714	10816	17608	420000	336513	11050	27477	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)
Total	44000	43970	0	38788	679011	1283403	18728000	13204583	443150	1909002	0	53784	0	0

STAGE DESCRIPTION

Treatment Interval	Spacer		Wireline Pump-In		Total	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
1	0	0	0	25830	457697	260671
2	0	27816	0	37044	457494	279633
3	0	145396	0	20580	478206	704780
4	0	21936	0	19950	457088	348287
5	0	0	0	23604	456885	589475
6	0	12722	0	20580	456682	212727
7	0	0	0	20748	456479	508390
8	0	0	0	19236	465176	418763
9	0	0	0	18186	464973	447103
10	0	0	0	20286	464770	456383
11	0	10390	0	20286	464567	366826
12	0	21406	0	19740	464364	365878
13	0	0	0	16884	390611	350156
14	0	0	0	16884	463958	403689
15	0	23100	0	15372	463755	328425
16	0	0	0	16590	463552	282855
17	0	0	0	16002	463349	526604
18	0	0	0	14238	463146	425290
19	0	0	0	14028	462942	435371
20	0	0	0	11718	462739	206219
21	0	0	0	12474	460136	290486
22	0	0	0	12474	448433	217225

STAGE DESCRIPTION

Treatment Interval	Spacer		Wireline Pump-In		Total	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
23	0	0	0	11760	462130	498842
24	0	28139	0	11550	446927	369859
25	0	15909	0	12180	447824	301579
26	0	0	0	12432	447621	362371
27	0	0	0	10500	446318	406105
28	0	67298	0	10794	446115	417835
29	0	0	0	9240	445912	303038
30	0	22122	0	9282	445709	530889
31	0	0	0	9198	445506	436627
32	0	0	0	6888	445303	403914
33	0	0	0	7434	445100	393977
34	0	0	0	11004	444897	429675
35	0	0	0	6216	444694	424752
36	0	0	0	6594	444491	461821
37	0	0	0	5544	444287	413285
38	0	0	0	4746	444084	457155
39	0	0	0	4116	443881	424856
40	0	0	0	4242	443678	400317
41	0	0	0	3528	443475	410556
42	0	0	0	2982	443272	410513
43	0	0	0	2226	443069	438448
44	0	0	0	2478	442866	385782

STAGE DESCRIPTION

Treatment Interval	Spacer		Wireline Pump-In		Total	
	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)	Proposed (gal)	Pumped (gal)
Total	0	396234	0	577668	19894161	17507432

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	7.74	1133.11	1133.11	1133.11
	3	Acid	15% HCl		0	0	0	10.23	988.41	988.41	2121.52
	4	Pad	FR Water (FightR EC-1)		0	0	0	56.96	46493.37	46493.37	48614.89
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	73.09	2066.19	2069	50681.08
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	72.92	25759.58	26086.33	76440.66
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	72.9	8695.6	8885.18	85136.26
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	72.58	56687.5	57988.95	141823.76
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	72.65	45446.06	47056.27	187269.82
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	72.47	11303.15	11580.04	198572.97
	11	Flush	FR Water (FightR EC-1)		0	0	0	54.82	18530.19	18557.69	217103.16
	12	Flush	FR Water (FightR EC-1)		0	0	0	33.58	17738.51	17738.51	234841.67
2	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.86	916.69	916.69	235758.36
	3	Acid	15% HCl		0	0	0	9.77	987.22	987.22	236745.58
	4	Pad	FR Water (FightR EC-1)		0	0	0	24.07	14546.55	14546.56	251292.13
	5	Pad	Hybor G 25#		0	0	0	59.96	23437.53	23437.52	274729.66
	6	PLF	Hybor G 25#	30/50 Premium White	0.25	0.5	0.38	71.31	9421.41	9580.56	284151.07
	7	PLF	Hybor G 25#	30/50 Premium White	0.25	0.5	0.38	74	3419.03	3504.2	287570.1
	8	Pre-Flush	Hybor G 25#		0	0	0	75.81	943.52	964.71	288513.62
	9	Pad	FR Water (FightR EC-1)		0	0	0	75.72	15767.7	15795.23	304281.32
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	76.07	10295.88	10541.74	314577.2
	11	Spacer	FR Water (FightR EC-1)		0	0	0	82.38	1303.65	1339.42	315880.85
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	82.13	99545.45	101909.51	415426.3

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	13	Spacer	FR Water (FightR EC-1)		0	0	0	77.55	26512.12	26537.97	441938.42
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	76.56	11921.1	12068.96	453859.52
	15	Pre-Flush	FR Water (FightR EC-1)		0	0	0	76.52	2854.18	2865.7	456713.7
	16	Flush	FR Water (FightR EC-1)		0	0	0	57.38	20716.06	20716.08	477429.76
3	2	Breakdown	FR Water (FightR EC-1)		0	0	0	9.76	393.58	393.58	477823.34
	3	Acid	15% HCl		0	0	0	9.76	992.83	992.83	478816.17
	4	Pad	FR Water (FightR EC-1)		0	0	0	26.59	21635.65	21636.14	500451.82
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	68.51	1437.04	1450.49	501888.86
	6	Spacer	FR Water (FightR EC-1)		0	0	0	72.45	32814.44	32885.52	534703.3
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	71.38	7457.92	7467.97	542161.22
	8	Spacer	FR Water (FightR EC-1)		0	0	0	71.36	11951.18	11956.65	554112.4
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	71.24	8752.99	8864.7	562865.39
	10	Spacer	FR Water (FightR EC-1)		0	0	0	71.04	19456.67	19536.95	582322.06
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	71.16	54989.99	56105.94	637312.05
	12	Spacer	FR Water (FightR EC-1)		0	0	0	58.57	40085.28	40132.65	677397.33
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	65.14	29660.06	29929.73	707057.39
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	65.16	17111.62	17511.62	724169.01
	15	Spacer	FR Water (FightR EC-1)		0	0	0	65.15	21657.78	21742.62	745826.79
	16	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	65.14	60741.28	62089.97	806568.07
	17	Spacer	FR Water (FightR EC-1)		0	0	0	65.14	19568.71	19615.99	826136.78
18	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	64.87	273285.84	279503.49	1099422.62	
19	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	64.8	40296.29	41628.56	1139718.91	

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)
3	20	Pre-Flush	FR Water (FightR EC-1)		0	0	0	64.89	2325.85	2338.27	1142044.76
	21	Flush	FR Water (FightR EC-1)		0	0	0	47.73	19585.06	19585.07	1161629.82
4	2	Breakdown	FR Water (FightR EC-1)		0	0	0	8.37	856.45	856.44	1162486.27
	3	Acid	15% HCl		0	0	0	10.05	987.67	987.67	1163473.94
	4	Pad	FR Water (FightR EC-1)		0	0	0	25.02	14251.39	14251.37	1177725.33
	5	Pad	Hybor G 25#		0	0	0	65.87	17557.22	17557.23	1195282.55
	6	PLF	Hybor G 25#	100 Mesh Premium White	0.25	0.5	0.38	75.05	14709.37	14909.38	1209991.92
	7	PLF	Hybor G 25#	30/50 Premium White	0.25	0.5	0.38	73.83	37960.82	38779.64	1247952.74
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.5	0.38	70.7	3719.96	3798.63	1251672.7
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	70.88	39186.76	40091.92	1290859.46
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	70.65	42936.37	44409.06	1333795.83
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	68.02	2616.77	2693.17	1336412.6
	12	Spacer	FR Water (FightR EC-1)		0	0	0	68.16	21935.37	21974.33	1358347.97
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	67.84	39488.09	40380.96	1397836.06
	14	Flush	FR Water (FightR EC-1)		0	0	0	66.73	4197.81	4243.04	1402033.87
15	Flush	FR Water (FightR EC-1)		0	0	0	54.69	87933.92	87934.47	1489967.79	
5	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.29	929.05	929.05	1490896.84
	3	Acid	15% HCl		0	0	0	10.8	990.81	990.81	1491887.65
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.45	13899.85	13899.85	1505787.5
	5	Pad	Hybor G 25#		0	0	0	61.72	23287.87	23287.87	1529075.37
	6	PLF	Hybor G 25#	100 Mesh Premium White	0	0.5	0.25	69.13	12996.48	13185.48	1542071.85
	7	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	69.04	6172.01	6296.52	1548243.86

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
5	8	PLF	FR Water (FightR EC-1)	100 Mesh Premium White	0	2.5	1.25	68.88	32007.22	32722.91	1580251.08
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	68.82	452641.48	463299.16	2032892.56
	10	Pre-Flush	FR Water (FightR EC-1)		0	0	0	68.73	958.45	971.8	2033851.01
	11	Flush	FR Water (FightR EC-1)		0	0	0	59.36	21989.43	21989.43	2055840.44
6	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.26	390.59	390.59	2056231.03
	3	Acid	15% HCl		0	0	0	9.7	986.74	986.74	2057217.77
	4	Pad	FR Water (FightR EC-1)		0	0	0	24.86	14287.86	14287.85	2071505.63
	5	Pad	Hybor G 25#		0	0	0	63.58	29632.22	29632.21	2101137.85
	6	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	74.17	3139.91	3147.23	2104277.76
	7	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	74.07	4578.8	4647.73	2108856.56
	8	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	74.11	4877.09	5025.54	2113733.65
	9	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	73.92	34350.63	35768.4	2148084.28
	10	PLF	FR Water (FightR EC-1)	100 Mesh Premium White	0	2.5	1.25	73.91	1503.93	1566.38	2149588.21
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	72.25	21346.53	21901.74	2170934.74
	12	Spacer	FR Water (FightR EC-1)		0	0	0	64.3	12721.96	12767.19	2183656.7
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	63.72	36748.84	37097.2	2220405.54
14	Flush	FR Water (FightR EC-1)		0	0	0	55.47	27580.06	27588.31	2247985.6	
7	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.59	747.24	747.23	2248732.84
	3	Acid	15% HCl		0	0	0	9.75	998.46	998.45	2249731.3
	4	Pad	FR Water (FightR EC-1)		0	0	0	23.18	14377.18	14377.17	2264108.48
	5	Pad	Hybor G 25#		0	0	0	74.41	23379.77	23379.74	2287488.25
	6	Pad	FR Water (FightR EC-1)		0	0	0	4.12	9459.41	9459.41	2296947.66

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
7	7	Pad	Hybor G 25#		0	0	0	84	22724.08	22724.09	2319671.74
	8	PLF	Hybor G 25#	30/50 Premium White	0.25	0.5	0.38	84.22	12767.77	12915.1	2332439.51
	9	PLF	Hybor G 25#	30/50 Premium White	0	0.5	0.25	84.71	5750.64	5869.18	2338190.15
	10	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	83.58	15918.94	16237.69	2354109.09
	11	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	84.78	7694.63	8026.07	2361803.72
	12	PLF	FR Water (FightR EC-1)	100 Mesh Premium White	0	2.5	1.25	84.86	1605.95	1679.1	2363409.67
	13	Flush	FR Water (FightR EC-1)		0	0	0	11.36	22488.1	22590.67	2385897.77
	14	Pad	Hybor G 25#		0	0	0	79.44	13696.01	13696.02	2399593.78
	15	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	83.32	6114.73	6182.47	2405708.51
	16	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	84.48	10045.52	10389.24	2415754.03
	17	PLF	Hybor G 25#	30/50 Premium White	0.5	0.5	0.5	82.51	1124.34	1165.81	2416878.37
	18	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.82	37776.36	38663.48	2454654.73
	19	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	84.7	103850.23	107390.23	2558504.96
	20	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.5	152310.39	155626.85	2710815.35
21	Flush	FR Water (FightR EC-1)		0	0	0	58.25	24812.37	24829.65	2735627.72	
8	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.97	866.97	866.97	2736494.69
	3	Acid	15% HCl		0	0	0	11.32	985.06	985.06	2737479.75
	4	Pad	FR Water (FightR EC-1)		0	0	0	35.43	31509.89	31509.98	2768989.64
	5	PLF	FR Water (FightR EC-1)	100 Mesh Premium White	0	0.5	0.25	80.47	14544.36	14792.64	2783534
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.19	16502.95	16899.46	2800036.95
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.02	22279.92	23308.97	2822316.87
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.83	77304.4	79193.77	2899621.27

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	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	79.83	214060.88	221336.35	3113682.15
	10	Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.93	3131.1	3166.64	3116813.25
	11	Flush	FR Water (FightR EC-1)		0	0	0	58.71	18342.41	18342.41	3135155.66
9	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.97	714.42	714.42	3135870.08
	3	Acid	15% HCl		0	0	0	9.92	995.72	995.72	3136865.8
	4	Pad	FR Water (FightR EC-1)		0	0	0	37.61	31613.8	31614.29	3168479.6
	5	PLF	FR Water (FightR EC-1)	100 Mesh Premium White	0	0.5	0.25	80.12	15514.39	15747.85	3183993.99
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.55	20261.82	20811.06	3204255.81
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.73	18801.74	19897.97	3223057.55
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.03	59463.98	60881.92	3282521.53
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	79.94	79061.93	81788.77	3361583.46
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.89	180224.09	184225.8	3541807.55
	11	Flush	FR Water (FightR EC-1)		0	0	0	79.91	4161.82	4179.28	3545969.37
12	Flush	FR Water (FightR EC-1)		0	0	0	53.2	18103.76	18103.75	3564073.13	
10	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.4	622.13	622.14	3564695.26
	3	Acid	15% HCl		0	0	0	9.8	997.67	997.67	3565692.93
	4	Pad	FR Water (FightR EC-1)		0	0	0	23.23	13223.94	13223.93	3578916.87
	5	Pad	Hybor G 25#		0	0	0	80.86	40664.83	40664.84	3619581.7
	6	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	84.5	19414.03	19898.2	3638995.73
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	81.37	12833.87	13581.94	3651829.6
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.07	5666.72	5997.71	3657496.32
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	82.16	50407.71	51692.31	3707904.03

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)
10	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	84.45	141725.23	146362.27	3849629.26
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.71	129463.2	132566.25	3979092.46
	12	Pre-Flush	FR Water (FightR EC-1)		0	0	0	83.81	873.03	888.8	3979965.49
	13	Flush	FR Water (FightR EC-1)		0	0	0	83.86	1838.93	1838.93	3981804.42
	14	Flush	FR Water (FightR EC-1)		0	0	0	57.52	18364.65	18364.65	4000169.07
11	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.98	550.41	550.4	4000719.48
	3	Acid	15% HCl		0	0	0	10.36	988.95	988.95	4001708.43
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.81	15307.5	15307.49	4017015.93
	5	Pad	Hybor G 25#		0	0	0	80.32	33316.23	33316.26	4050332.16
	6	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	83.21	18458.39	18946.77	4068790.55
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.42	12935.94	13696.58	4081726.49
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.41	5549.59	5853.79	4087276.08
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.22	1477.85	1566.33	4088753.93
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	83.99	65367.77	67635.98	4154121.7
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	82.79	3129.9	3220.93	4157251.6
	12	Flush	FR Water (FightR EC-1)		0	0	0	81.11	28746.35	28796.85	4185997.95
	13	Flush	Hybor G 25#		0	0	0	83.37	4600.33	4600.31	4190598.28
	14	Pad	FR Water (FightR EC-1)		0	0	0	83.33	22744.88	22744.96	4213343.16
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	83.06	10243.76	10335.17	4223586.92
	16	Spacer	FR Water (FightR EC-1)		0	0	0	83.19	10390.15	10411.48	4233977.07
	17	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.8	85786.57	87641.14	4319763.64
	18	Flush	FR Water (FightR EC-1)		0	0	0	61.2	26944.9	26989.79	4346708.54

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)
12	2	Breakdown	FR Water (FightR EC-1)		0	0	0	2.86	708.95	708.93	4347417.49
	3	Acid	15% HCl		0	0	0	9.81	992.26	992.26	4348409.75
	4	Pad	FR Water (FightR EC-1)		0	0	0	14.46	500.89	500.89	4348910.64
	5	Pad	Hybor G 25#		0	0	0	24.37	206.72	206.72	4349117.36
	6	Pad	FR Water (FightR EC-1)		0	0	0	22.19	14147.37	14147.3	4363264.73
	7	Pad	Hybor G 25#		0	0	0	74.38	41755.66	41755.65	4405020.39
	8	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	81.8	21874.05	22431.94	4426894.44
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	81.89	10595	11174.19	4437489.44
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	81.87	4711.82	4976.96	4442201.26
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	81.29	107956.62	110533.66	4550157.88
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	81	62494.82	64704.17	4612652.7
	13	Spacer	FR Water (FightR EC-1)		0	0	0	81.12	21461.03	21512.85	4634113.73
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.85	37364.65	38132.94	4671478.38
	15	Flush	FR Water (FightR EC-1)		0	0	0	80.79	3454.99	3482.45	4674933.37
	16	Flush	FR Water (FightR EC-1)		0	0	0	65.09	17913.33	17913.33	4692846.7
	13	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.6	902.87	902.81
3		Acid	15% HCl		0	0	0	9.97	986.67	986.63	4694736.24
4		Pad	FR Water (FightR EC-1)		0	0	0	32.21	29930.14	29930.2	4724666.38
5		PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	80.08	17169.18	17382.65	4741835.56
6		Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.95	2691.63	2711.61	4744527.19
7		Pad	FR Water (FightR EC-1)		0	0	0	79.94	5584.08	5597.12	4750111.27
8		PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.19	35026.75	35724.7	4785138.02

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)
13	9	Pre-Flush	Hybor G 25#		0	0	0	80.14	1888.87	1926.06	4787026.89
	10	Pad	Hybor G 25#		0	0	0	80.38	16061.35	16083.12	4803088.24
	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.9	19521.87	20057.43	4822610.11
	12	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.02	18444.14	19522.25	4841054.25
	13	Pre-Flush	FR Water (FightR EC-1)		0	0	0	80.17	2842.15	2948.53	4843896.4
	14	Pad	FR Water (FightR EC-1)		0	0	0	80.07	5198.78	5207.86	4849095.18
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.88	2752.31	2767.01	4851847.49
	16	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.73	88469.82	90418.93	4940317.31
	17	Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.82	1997.63	2031.66	4942314.94
	18	Pad	FR Water (FightR EC-1)		0	0	0	80.1	9892.16	9906.55	4952207.1
	19	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	79.71	47323.33	48860.43	4999530.43
	20	Flush	FR Water (FightR EC-1)		0	0	0	79.96	14461.43	14531.92	5013991.86
	21	Flush	FR Water (FightR EC-1)		0	0	0	80.02	4185.56	4185.58	5018177.42
22	Flush	FR Water (FightR EC-1)		0	0	0	38.22	7941.17	7941.14	5026118.59	
14	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.99	528.88	528.89	5026647.47
	3	Acid	15% HCl		0	0	0	9.8	991.43	991.4	5027638.9
	4	Pad	FR Water (FightR EC-1)		0	0	0	32.73	26994.08	26994.05	5054632.98
	5	Pad	FR Water (FightR EC-1)		0	0	0	80.12	2493.44	2493.45	5057126.42
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	80.08	20714.16	20934.27	5077840.58
	7	Pre-Flush	FR Water (FightR EC-1)		0	0	0	80.03	1965.64	1982.54	5079806.22
	8	Pad	FR Water (FightR EC-1)		0	0	0	80.1	6280.02	6284.24	5086086.24
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.13	29188.7	29796.51	5115274.94

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)
14	10	Pre-Flush	FR Water (FightR EC-1)		0	0	0	80.2	2058.09	2096.9	5117333.03
	11	Flush	Hybor G 25#		0	0	0	80.22	8832.97	8843.69	5126166
	12	Pad	Hybor G 25#		0	0	0	80.47	10413.22	10413.26	5136579.22
	13	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.85	25854	26704.65	5162433.22
	14	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.83	11231.31	12079.53	5173664.53
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.78	1574.55	1692.36	5175239.08
	16	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.17	99278.18	101635.53	5274517.26
	17	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.6	0.6	0.6	80.17	48932.26	50216.87	5323449.52
	18	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.7	0.7	0.7	80.16	41250.28	42564.81	5364699.8
	19	PLF	Hybor G 25#	30/50 Premium White	0.7	0.7	0.7	80.06	15342.34	15794.5	5380042.14
	20	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.7	0.7	0.7	80.12	2198.54	2265.19	5382240.68
	21	Flush	FR Water (FightR EC-1)		0	0	0	80	3890.07	3956.65	5386130.75
	22	Flush	FR Water (FightR EC-1)		0	0	0	79.99	4070.5	4071.84	5390201.25
	23	Flush	FR Water (FightR EC-1)		0	0	0	41.21	22722.66	22722.65	5412923.91
15	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.51	762.72	762.72	5413686.63
	3	Acid	15% HCl		0	0	0	11.33	986.73	986.73	5414673.36
	4	Pad	FR Water (FightR EC-1)		0	0	0	51.28	52354.94	52354.94	5467028.3
	5	PLF	FR Water (FightR EC-1)	100 Mesh Premium White	0.1	2.5	1.3	82.26	19867.12	20533.97	5486895.42
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.1	2.5	1.3	82.26	17503.51	18498.44	5504398.93
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	81.94	119227.1	122199.37	5623626.03
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	81.66	6645.56	6755.71	5630271.59
	9	Spacer	FR Water (FightR EC-1)		0	0	0	81.73	23100.41	23109.18	5653372

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	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	81.78	47494.07	48119.12	5700866.07
	11	Flush	FR Water (FightR EC-1)		0	0	0	63.42	25109.98	25123	5725976.05
16	2	Breakdown	FR Water (FightR EC-1)		0	0	0	16.27	6307.89	6307.9	5732283.94
	3	Acid	15% HCl		0	0	0	28.28	981.87	981.87	5733265.81
	4	Pad	FR Water (FightR EC-1)		0	0	0	23.13	7614.05	7614.04	5740879.86
	5	Pad	Hybor G 25#		0	0	0	71.98	20366.65	20366.64	5761246.51
	6	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	81.01	18262.37	18843.7	5779508.88
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.71	12613.01	13408.43	5792121.89
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.7	5380.62	5706.03	5797502.51
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	81.15	116711.51	119439.41	5914214.02
	10	Flush	FR Water (FightR EC-1)		0	0	0	80.95	31050.2	31064.39	5945264.22
	11	Flush	Hybor G 25#		0	0	0	80.09	4076.8	4076.8	5949341.02
	12	Flush	FR Water (FightR EC-1)		0	0	0	80.1	904.52	904.52	5950245.54
	13	Flush	Hybor G 25#		0	0	0	80.3	19974.86	19974.88	5970220.4
	14	Flush	FR Water (FightR EC-1)		0	0	0	80.46	9498.45	9498.45	5979718.85
	15	Flush	FR Water (FightR EC-1)		0	0	0	80.27	1587.72	1587.72	5981306.57
16	Flush	FR Water (FightR EC-1)		0	0	0	60.16	10933.37	10933.38	5992239.94	
17	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.87	586.7	586.7	5992826.64
	3	Acid	15% HCl		0	0	0	10	990.03	990.03	5993816.67
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.96	2945.14	2945.13	5996761.81
	5	Pad	Hybor G 25#		0	0	0	28.89	1388.99	1388.99	5998150.8
	6	Pad	FR Water (FightR EC-1)		0	0	0	22.82	8653.08	8653.07	6006803.88

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)	
17	7	Pad	Hybor G 25#		0	0	0	79.85	29073.5	29073.49	6035877.38	
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.88	17754	18229.7	6053631.38	
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.72	14957.41	15733.01	6068588.79	
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	82.64	5564.94	5843.66	6074153.73	
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.09	323661.9	330982.45	6397815.63	
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.6	0.6	0.6	82.93	50603.63	51900.15	6448419.26	
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	82.94	34283.07	35420.24	6482702.33	
	14	Pre-Flush	FR Water (FightR EC-1)		0	0	0	82.81	3090.38	3103.22	6485792.71	
	15	Flush	FR Water (FightR EC-1)		0	0	0	65.39	17050.93	17050.91	6502843.64	
18	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.78	1002.58	1002.52	6503846.22	
	3	Acid	15% HCl		0	0	0	9.93	996.45	996.49	6504842.67	
	4	Pad	FR Water (FightR EC-1)		0	0	0	17.7	2218.73	2218.76	6507061.4	
	5	Pad	Hybor G 25#		0	0	0	29.44	2269.16	2269.15	6509330.56	
	6	Pad	FR Water (FightR EC-1)		0	0	0	22.75	8291.94	8291.98	6517622.5	
	7	Pad	Hybor G 25#		0	0	0	77.04	20312.04	20312.08	6537934.54	
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.11	17809.12	18352.16	6555743.66	
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.08	18806.42	19876.05	6574550.08	
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.43	67262.78	68807.68	6641812.86	
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.6	0.6	0.6	80.05	171898.94	176519.8	6813711.8	
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.7	0.7	0.7	80	37686.06	38872.44	6851397.86	
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.8	0.8	0.8	80.03	45073.81	46662.3	6896471.67	
		14	Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.77	1118.13	1123.21	6897589.8

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
18	15	Flush	FR Water (FightR EC-1)		0	0	0	52.49	16306.31	16306.35	6913896.11
19	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.11	859.21	859.21	6914755.32
	3	Acid	15% HCl		0	0	0	9.82	995.14	995.13	6915750.46
	4	Pad	FR Water (FightR EC-1)		0	0	0	26.96	5883.65	5883.69	6921634.11
	5	Pad	Hybor G 25#		0	0	0	28.88	406.87	406.86	6922040.98
	6	Pad	FR Water (FightR EC-1)		0	0	0	20.47	4937.83	4937.8	6926978.81
	7	Pad	Hybor G 25#		0	0	0	70.74	18077.28	18077.26	6945056.09
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.92	23415.56	24146.98	6968471.65
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.91	12697.11	13566.17	6981168.76
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.93	2005.88	2140.49	6983174.64
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.14	102091.63	104473.02	7085266.27
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.6	0.6	0.6	80.12	83840.74	86077.56	7169107.01
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.7	0.7	0.7	79.91	75728.14	78024.02	7244835.15
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.8	0.8	0.8	79.72	59953.63	62047.84	7304788.78
	15	Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.64	1670.39	1681.96	7306459.17
16	Flush	FR Water (FightR EC-1)		0	0	0	29.09	28779.98	28780.07	7335239.15	
20	2	Breakdown	FR Water (FightR EC-1)		0	0	0	17.02	0	0	7335239.15
	3	Acid	15% HCl		0	0	0	29.8	990.12	990.12	7336229.27
	4	Pad	FR Water (FightR EC-1)		0	0	0	46.22	21203.62	21203.62	7357432.89
	5	PLF	FR Water (FightR EC-1)	100 Mesh Premium White	0.1	0.5	0.3	79.59	8930.96	9063.14	7366363.85
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.1	2.5	1.3	79.75	22946.48	23801.67	7389310.33
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.1	2.5	1.3	79.93	14528.67	15540.33	7403839

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
20	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.22	95658.51	97958.23	7499497.51
	9	Flush	FR Water (FightR EC-1)		0	0	0	80.05	16946	16977.39	7516443.51
	10	Flush	FR Water (FightR EC-1)		0	0	0	80.16	7875.21	7875.21	7524318.72
	11	Flush	FR Water (FightR EC-1)		0	0	0	69.58	5405.18	5405.2	7529723.9
	12	Flush	FR Water (FightR EC-1)		0	0	0	0.16	16.12	16.12	7529740.02
21	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.85	803.68	803.69	7530543.7
	3	Acid	15% HCl		0	0	0	9.94	990.63	990.62	7531534.33
	4	Pad	FR Water (FightR EC-1)		0	0	0	40.22	27397.57	27397.56	7558931.9
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.88	24366.22	24954.68	7583298.12
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.67	28718.75	30308.32	7612016.87
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79	50671.77	51944.87	7662688.64
	8	Flush	FR Water (FightR EC-1)		0	0	0	75.12	8402.83	8439.79	7671091.47
	9	Pad	FR Water (FightR EC-1)		0	0	0	19.3	26804.92	26804.93	7697896.39
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	75.57	37240.15	38035.68	7735136.54
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.6	0.6	0.6	74.9	52689.76	54147.63	7787826.3
	12	Flush	FR Water (FightR EC-1)		0	0	0	74.99	3878.31	3923.35	7791704.61
	13	Flush	FR Water (FightR EC-1)		0	0	0	74.96	6203.29	6203.29	7797907.9
	14	Flush	FR Water (FightR EC-1)		0	0	0	40.56	9844.21	9844.19	7807752.11
22	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.05	1387.19	1387.18	7809139.3
	3	Acid	15% HCl		0	0	0	9.99	995.96	995.97	7810135.26
	4	Pad	FR Water (FightR EC-1)		0	0	0	9.98	119.78	119.78	7810255.04
	5	Pad	Hybor G 25#		0	0	0	9.96	232.34	232.34	7810487.38

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)
22	6	Pad	FR Water (FightR EC-1)		0	0	0	21.9	14554.41	14554.44	7825041.79
	7	Pad	Hybor G 25#		0	0	0	73.28	23573.78	23573.78	7848615.57
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	76.68	21325.81	21909.83	7869941.38
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	76.52	14753.68	15692.64	7884695.06
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	76.5	2186.79	2326.28	7886881.85
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	72.4	105776.99	108423.6	7992658.84
	12	Flush	FR Water (FightR EC-1)		0	0	0	42.41	19842.72	19869.23	8012501.56
23	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.01	599.22	599.22	8013100.78
	3	Acid	15% HCl		0	0	0	10	996.12	996.12	8014096.9
	4	Pad	FR Water (FightR EC-1)		0	0	0	31.34	21325.4	21325.39	8035422.3
	5	Pad	FR Water (FightR EC-1)		0	0	0	78.81	5181.99	5182	8040604.29
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	78.78	22623.42	23344.24	8063227.71
	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	78.48	15381.43	16425.56	8078609.14
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	77.72	402459.08	412242.5	8481068.22
	9	Pre-Flush	FR Water (FightR EC-1)		0	0	0	76.02	3090.81	3116.48	8484159.03
	10	Flush	FR Water (FightR EC-1)		0	0	0	54.06	15423.98	15424.01	8499583.01
	24	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.89	854.89	854.88
3		Acid	15% HCl		0	0	0	10.05	994.84	994.86	8501432.74
4		Pad	FR Water (FightR EC-1)		0	0	0	38.06	27613.71	27613.68	8529046.45
5		PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.09	23136.57	23829.9	8552183.02
6		PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.78	14830.51	15793.6	8567013.53
7		PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	78.5	205359.98	210303.3	8772373.51

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
24	8	Spacer	FR Water (FightR EC-1)		0	0	0	68.19	14566.39	14592.75	8786939.9
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	68.31	2447.89	2461.79	8789387.79
	10	Spacer	FR Water (FightR EC-1)		0	0	0	68.21	13569.57	13588.35	8802957.36
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	68.7	18873.95	19267.04	8821831.31
	12	Flush	FR Water (FightR EC-1)		0	0	0	22.01	36060.33	36083.71	8857891.64
25	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.27	1005.44	1005.44	8858897.08
	3	Acid	15% HCl		0	0	0	9.91	994.99	994.99	8859892.07
	4	Pad	FR Water (FightR EC-1)		0	0	0	46.38	43351.73	43351.73	8903243.8
	5	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.4	8401.88	8527.61	8911645.68
	6	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	79.22	5481.88	5595.94	8917127.56
	7	Spacer	FR Water (FightR EC-1)		0	0	0	79.21	9195.6	9237.1	8926323.16
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	78.95	6211.4	6302.52	8932534.56
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	79	16307.11	16528.71	8948841.67
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	78.84	39944.46	40825.54	8988786.13
	11	Flush	FR Water (FightR EC-1)		0	0	0	79.98	8773.92	8814.51	8997560.05
	12	Pad	FR Water (FightR EC-1)		0	0	0	80.13	49931.72	49931.73	9047491.77
	13	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.2	0.2	0.2	79.47	9924.97	9990.47	9057416.74
	14	Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.84	1456.24	1467.47	9058872.98
	15	Pad	FR Water (FightR EC-1)		0	0	0	79.99	5592.28	5594.31	9064465.26
	16	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.14	8802.1	8945.33	9073267.36
17	Flush	FR Water (FightR EC-1)		0	0	0	80.11	8895.58	8937.22	9082162.94	
18	Pad	FR Water (FightR EC-1)		0	0	0	77.94	5503.26	5503.26	9087666.2	

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)
25	19	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	76.58	9711.85	9791.6	9097378.05
	20	Spacer	FR Water (FightR EC-1)		0	0	0	75	6711.19	6728.17	9104089.24
	21	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	71.86	23476.79	23958.21	9127566.03
	22	Flush	FR Water (FightR EC-1)		0	0	0	68.05	3856.76	3893.66	9131422.79
	23	Flush	FR Water (FightR EC-1)		0	0	0	64.18	2539.96	2539.97	9133962.75
	24	Flush	FR Water (FightR EC-1)		0	0	0	38.97	13328.25	13328.22	9147291
26	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.28	941.58	941.58	9148232.58
	3	Acid	15% HCl		0	0	0	9.84	991.92	991.92	9149224.5
	4	Pad	FR Water (FightR EC-1)		0	0	0	45.81	35316.45	35316.44	9184540.95
	5	Pad	Hybor G 25#		0	0	0	80.58	19698.08	19698.09	9204239.03
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.71	20815.94	21433.46	9225054.97
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.55	20527.28	21853.11	9245582.25
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.8	1425.46	1522.77	9247007.71
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.91	175797.01	179969.14	9422804.72
	10	Flush	FR Water (FightR EC-1)		0	0	0	80.03	7134.53	7177	9429939.25
	11	Flush	FR Water (FightR EC-1)		0	0	0	85.16	58225.34	58225.38	9488164.59
	12	Flush	FR Water (FightR EC-1)		0	0	0	38.41	9065.13	9065.12	9497229.72
27	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.91	950.17	950.17	9498179.89
	3	Acid	15% HCl		0	0	0	8.49	995.54	995.55	9499175.43
	4	Pad	FR Water (FightR EC-1)		0	0	0	8.52	138.28	138.28	9499313.71
	5	Pad	Hybor G 25#		0	0	0	10.33	240.6	240.6	9499554.31
	6	Pad	FR Water (FightR EC-1)		0	0	0	42.38	32782.92	32782.93	9532337.23

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)
27	7	Pad	Hybor G 25#		0	0	0	90.65	24073.91	24073.91	9556411.14
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	90.38	23022.11	23629.17	9579433.25
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	90.07	13174.13	14124.22	9592607.38
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.87	2732.8	2983.33	9595340.18
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	87	103930.91	106402.66	9699271.09
	12	Flush	FR Water (FightR EC-1)		0	0	0	83.75	18587.87	18628.33	9717858.96
	13	Pad	Hybor G 25#		0	0	0	83.91	10431.85	10431.85	9728290.81
	14	PLF	Hybor G 25#	30/50 Premium White	0.25	0.25	0.25	83.78	3225.7	3254.14	9731516.51
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	83.55	43170.75	43660.7	9774687.26
	16	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.55	25001.62	25562.83	9799688.88
	17	Flush	FR Water (FightR EC-1)		0	0	0	76.53	41049.91	41090.69	9840738.79
	18	Flush	Hybor G 25#		0	0	0	74.18	15251.69	15251.7	9855990.48
	19	Flush	FR Water (FightR EC-1)		0	0	0	63.24	33292.24	33292.29	9889282.72
20	Flush	FR Water (FightR EC-1)		0	0	0	25.08	3549.96	3549.97	9892832.68	
28	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.97	836.25	836.28	9893668.93
	3	Acid	15% HCl		0	0	0	9.78	995.09	995.1	9894664.02
	4	Pad	FR Water (FightR EC-1)		0	0	0	40.62	31705.46	31705.4	9926369.48
	5	Pad	Hybor G 25#		0	0	0	90.64	23504.55	23504.57	9949874.03
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	90.35	33419.23	34987.53	9983293.26
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	90.04	18240.83	19975.05	10001534.09
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.01	150704.23	154359.83	10152238.32
	9	Spacer	FR Water (FightR EC-1)		0	0	0	80.86	30354.7	30389.79	10182593.02

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)
28	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	80.36	42852.95	43321.76	10225445.97
	11	Spacer	FR Water (FightR EC-1)		0	0	0	83.16	36943.38	36958.55	10262389.35
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	0.25	0.25	69.72	21105.97	21336.07	10283495.32
	13	Pre-Flush	FR Water (FightR EC-1)		0	0	0	69.67	2153.03	2165.64	10285648.35
	14	Flush	FR Water (FightR EC-1)		0	0	0	56.77	14224.75	14224.76	10299873.1
29	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.09	961.9	961.9	10300835
	3	Acid	15% HCl		0	0	0	9.97	986.19	986.18	10301821.19
	4	Pad	FR Water (FightR EC-1)		0	0	0	10	141.4	141.4	10301962.59
	5	Pad	Hybor G 25#		0	0	0	13.32	181.14	181.15	10302143.73
	6	Pad	FR Water (FightR EC-1)		0	0	0	46.27	32334.85	32334.77	10334478.58
	7	Pad	Hybor G 25#		0	0	0	90.69	24929.88	24929.86	10359408.46
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	90.36	35070.1	36657.32	10394478.56
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	89.98	33799.79	37010.61	10428278.35
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	86.91	147593.39	151081.57	10575871.74
	11	Flush	FR Water (FightR EC-1)		0	0	0	80.49	3198.87	3241.11	10579070.61
	12	Flush	FR Water (FightR EC-1)		0	0	0	76.69	10409.03	10409.05	10589479.64
13	Flush	FR Water (FightR EC-1)		0	0	0	20.51	4191.16	4191.16	10593670.8	
30	2	Breakdown	FR Water (FightR EC-1)		0	0	0	0.89	881.24	881.24	10594552.04
	3	Acid	15% HCl		0	0	0	9.76	994.12	994.12	10595546.16
	4	Pad	FR Water (FightR EC-1)		0	0	0	29.24	17732.66	17732.66	10613278.82
	5	Pad	Hybor G 25#		0	0	0	82.17	3837.46	3837.46	10617116.28
	6	Pad	FR Water (FightR EC-1)		0	0	0	84.03	51294.96	51294.96	10668411.24

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
30	7	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.62	30941.03	32335.08	10699352.27
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	80.21	13925.7	15203.62	10713277.97
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.83	30497.08	31277.61	10743775.05
	10	Spacer	FR Water (FightR EC-1)		0	0	0	75.04	22121.8	22194.31	10765896.85
	11	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	80.03	179005.26	183146.85	10944902.11
	12	Flush	FR Water (FightR EC-1)		0	0	0	80.09	5342.38	5381.81	10950244.49
	13	Pad	FR Water (FightR EC-1)		0	0	0	6.01	26322.79	26322.77	10976567.28
	14	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	79.92	121845.19	124476.67	11098412.47
	15	Pre-Flush	FR Water (FightR EC-1)		0	0	0	79.95	2080.42	2091.22	11100492.89
	16	Flush	FR Water (FightR EC-1)		0	0	0	49.98	14783.81	14783.82	11115276.7
31	2	Breakdown	FR Water (FightR EC-1)		0	0	0	8.04	1320.35	1320.35	11116597.05
	3	Acid	15% HCl		0	0	0	9.74	991.79	991.79	11117588.84
	4	Pad	FR Water (FightR EC-1)		0	0	0	9.65	95.46	95.46	11117684.3
	5	Pad	Hybor G 25#		0	0	0	9.65	177.39	177.39	11117861.69
	6	Pad	FR Water (FightR EC-1)		0	0	0	26.61	15132.47	15132.47	11132994.16
	7	Pad	Hybor G 25#		0	0	0	79.95	32911.88	32911.88	11165906.04
	8	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	79.79	32330.14	33916.99	11198236.18
	9	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	79.9	21439.22	23455.9	11219675.4
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.14	306103.94	313343.42	11525779.34
	11	Flush	FR Water (FightR EC-1)		0	0	0	67.01	16926.19	16954.42	11542705.53
	32	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.73	477.54	477.54
3		Acid	15% HCl		0	0	0	10.06	996.47	996.47	11544179.54

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)
32	4	Pad	FR Water (FightR EC-1)		0	0	0	25.25	9957.02	9957.02	11554136.56
	5	Pad	Hybor G 25#		0	0	0	86.45	19867.96	19867.98	11574004.52
	6	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	84.73	38446.01	40373.07	11612450.53
	7	PLF	Hybor G 25#	100 Mesh Premium White	0	2.5	1.25	84.62	11634.33	12921.91	11624084.86
	8	PLF	FR Water (FightR EC-1)	100 Mesh Premium White	0	2.5	1.25	84.5	1773.31	1973.21	11625858.17
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.74	298735.46	305903.86	11924593.63
	10	Flush	FR Water (FightR EC-1)		0	0	0	61.2	15138.07	15138.2	11939731.7
33	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.21	593.9	593.9	11940325.6
	3	Acid	15% HCl		0	0	0	9.77	995.04	995.04	11941320.64
	4	Pad	FR Water (FightR EC-1)		0	0	0	23.08	9673.1	9673.11	11950993.74
	5	Pad	Hybor G 25#		0	0	0	70.85	15588.51	15588.51	11966582.25
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	78.74	38569.91	40586.28	12005152.16
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.63	15057.18	16782.13	12020209.34
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.4	291385.41	298484.52	12311594.75
	9	Pre-Flush	FR Water (FightR EC-1)		0	0	0	80.1	1586.45	1586.7	12313181.2
	10	Flush	FR Water (FightR EC-1)		0	0	0	55.49	13094.87	13094.93	12326276.07
	34	2	Breakdown	FR Water (FightR EC-1)		0	0	0	4.15	629.6	629.63
3		Acid	15% HCl		0	0	0	9.87	998.03	998	12327903.7
4		Pad	FR Water (FightR EC-1)		0	0	0	23.18	10440.85	10440.85	12338344.55
5		Pad	Hybor G 25#		0	0	0	83.06	16731.2	16731.2	12355075.75
6		PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.76	38595.09	40637.5	12393670.84
7		PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.02	4906.12	5459.97	12398576.96

ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
34	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.06	3366.85	3745.58	12401943.81
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.99	324876.64	332566.7	12726820.45
	10	Flush	FR Water (FightR EC-1)		0	0	0	84.92	4951.44	4990.51	12731771.89
	11	Flush	FR Water (FightR EC-1)		0	0	0	51.68	13176.26	13176.26	12744948.15
35	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.67	842.72	842.71	12745790.87
	3	Acid	15% HCl		0	0	0	10.82	987.19	987.2	12746778.06
	4	Pad	FR Water (FightR EC-1)		0	0	0	27.68	3211.64	3211.65	12749989.7
	5	Pad	Hybor G 25#		0	0	0	17.04	1098.22	1098.21	12751087.92
	6	Pad	FR Water (FightR EC-1)		0	0	0	18.86	4196.45	4196.5	12755284.37
	7	Pad	Hybor G 25#		0	0	0	75.9	19105.34	19105.28	12774389.71
	8	PLF	Hybor G 25#	30/50 Premium White	0.25	0.5	0.38	77.58	13791.32	13933.54	12788181.03
	9	PLF	Hybor G 25#	30/50 Premium White	0.25	1	0.62	77.85	9940.27	10182.11	12798121.3
	10	PLF	Hybor G 25#	30/50 Premium White	0.25	1.25	0.75	77.94	2246.65	2314.42	12800367.95
	11	PLF	Hybor G 25#	30/50 Premium White	0.25	1.5	0.87	77.97	2466.97	2588.97	12802834.92
	12	PLF	Hybor G 25#	30/50 Premium White	0.25	1.75	1	78.07	2230.4	2373.99	12805065.32
	13	PLF	Hybor G 25#	30/50 Premium White	0.25	2	1.12	83.41	2958.43	3188.69	12808023.75
	14	PLF	Hybor G 25#	30/50 Premium White	0.25	2	1.12	82.39	17135.35	18654	12825159.1
	15	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.25	2	1.12	79.18	2315.71	2520.19	12827474.81
	16	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	82.91	318012.8	325298.04	13145487.61
	17	Flush	FR Water (FightR EC-1)		0	0	0	85.04	3202.91	3244.66	13148690.52
18	Flush	Hybor G 25#		0	0	0	85.01	1856.7	1862.34	13150547.22	
19	Flush	Hybor G 25#		0	0	0	85.14	4332.76	4332.75	13154879.98	

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)
35	20	Flush	FR Water (FightR EC-1)		0	0	0	44.71	8604.29	8604.29	13163484.27
36	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.13	416.58	416.55	13163900.85
	3	Acid	15% HCl		0	0	0	11.08	980.5	980.52	13164881.35
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.29	8879.63	8879.66	13173760.98
	5	Pad	Hybor G 25#		0	0	0	75.96	15995.92	15996.64	13189756.9
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.53	18608.6	19125.75	13208365.5
	7	Flush	Hybor G 25#		0	0	0	64.95	8900.63	9094.48	13217266.13
	8	Flush	FR Water (FightR EC-1)		0	0	0	82.73	19641.37	19641.36	13236907.5
	9	Pad	Hybor G 25#		0	0	0	86	4250.34	4250.34	13241157.84
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.86	3373.03	3399.4	13244530.87
	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.6	2752.25	2809.92	13247283.12
	12	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	83.62	3538.82	3666.63	13250821.94
	13	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.81	5125.08	5387.23	13255947.02
	14	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.22	3559.43	3775.18	13259506.45
	15	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	81.78	3341.39	3585.75	13262847.84
	16	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	80.1	3079.78	3338.66	13265927.62
	17	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	86.48	12921.65	13329.89	13278849.27
	18	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.75	0.75	0.75	84.67	68372.21	70649.71	13347221.48
	19	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.88	256799.3	262840.05	13604020.78
20	Pre-Flush	FR Water (FightR EC-1)		0	0	0	85.21	2352.73	2352.87	13606373.51	
21	Flush	FR Water (FightR EC-1)		0	0	0	63.79	12338.32	12338.29	13618711.83	
37	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.47	735.89	735.85	13619447.72

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)
37	3	Acid	15% HCl		0	0	0	10.66	995.2	995.2	13620442.92
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.95	9138.57	9138.54	13629581.49
	5	Pad	Hybor G 25#		0	0	0	69.3	14056.06	14056.06	13643637.55
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	74.59	4745.08	4745.76	13648382.63
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	79.4	40460.68	42609.6	13688843.31
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.73	6344.65	7066.48	13695187.96
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.88	1984.54	2219.27	13697172.5
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	82.58	313852.6	321172.34	14011025.1
	11	Pre-Flush	FR Water (FightR EC-1)		0	0	0	81.96	3007.34	3010.88	14014032.44
	12	Flush	FR Water (FightR EC-1)		0	0	0	20.3	12419.49	12419.49	14026451.93
38	2	Breakdown	FR Water (FightR EC-1)		0	0	0	6.52	790.76	790.76	14027242.69
	3	Acid	15% HCl		0	0	0	10.54	992.09	992.09	14028234.78
	4	Pad	FR Water (FightR EC-1)		0	0	0	16.6	257.8	258.67	14028492.58
	5	Pad	Hybor G 25#		0	0	0	30.44	763.42	774.14	14029256
	6	Pad	FR Water (FightR EC-1)		0	0	0	22.7	7810.43	7818.47	14037066.43
	7	Pad	Hybor G 25#		0	0	0	79	11516.83	11516.83	14048583.26
	8	Pad	FR Water (FightR EC-1)		0	0	0	82.93	24161.62	24161.62	14072744.88
	9	Pad	Hybor G 25#		0	0	0	85.16	13311.24	13311.24	14086056.12
	10	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.19	38786.36	40992.42	14124842.48
	11	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	83.67	10507.5	11718.95	14135349.98
	12	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.21	328829.23	337043.78	14464179.21
	13	Pre-Flush	FR Water (FightR EC-1)		0	0	0	85.11	2394.52	2403.76	14466573.73

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	14	Flush	FR Water (FightR EC-1)		0	0	0	44.6	12287.61	12287.61	14478861.34
39	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.52	594.26	594.26	14479455.6
	3	Acid	15% HCl		0	0	0	10.17	991.89	991.89	14480447.49
	4	Pad	FR Water (FightR EC-1)		0	0	0	17.94	1223.3	1223.3	14481670.79
	5	Pad	Hybor G 25#		0	0	0	29.35	2158.95	2158.95	14483829.74
	6	Pad	FR Water (FightR EC-1)		0	0	0	20.81	4870.35	4870.35	14488700.09
	7	Pad	Hybor G 25#		0	0	0	78.71	17481.88	17484.28	14506181.97
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	83.83	36592.54	38774.61	14542774.51
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.52	11106.32	12434.71	14553880.83
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.02	331015.13	338723.1	14884895.96
	11	Pre-Flush	FR Water (FightR EC-1)		0	0	0	81.64	2422.5	2423.98	14887318.46
	12	Flush	FR Water (FightR EC-1)		0	0	0	47.29	12285.36	12285.37	14899603.82
40	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.41	499.69	499.69	14900103.51
	3	Acid	15% HCl		0	0	0	10.14	990.66	990.65	14901094.17
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.08	7973.26	7973.27	14909067.43
	5	Pad	Hybor G 25#		0	0	0	76.68	27763.05	27763.04	14936830.48
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	82.15	38381.42	40383.75	14975211.9
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.94	10079.79	11232.82	14985291.69
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.92	2148.6	2398.65	14987440.29
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.78	293577.79	300626.93	15281018.08
	10	Pre-Flush	FR Water (FightR EC-1)		0	0	0	84.99	2939.41	2943.15	15283957.49
	11	Flush	FR Water (FightR EC-1)		0	0	0	57.12	11721.56	11721.57	15295679.05

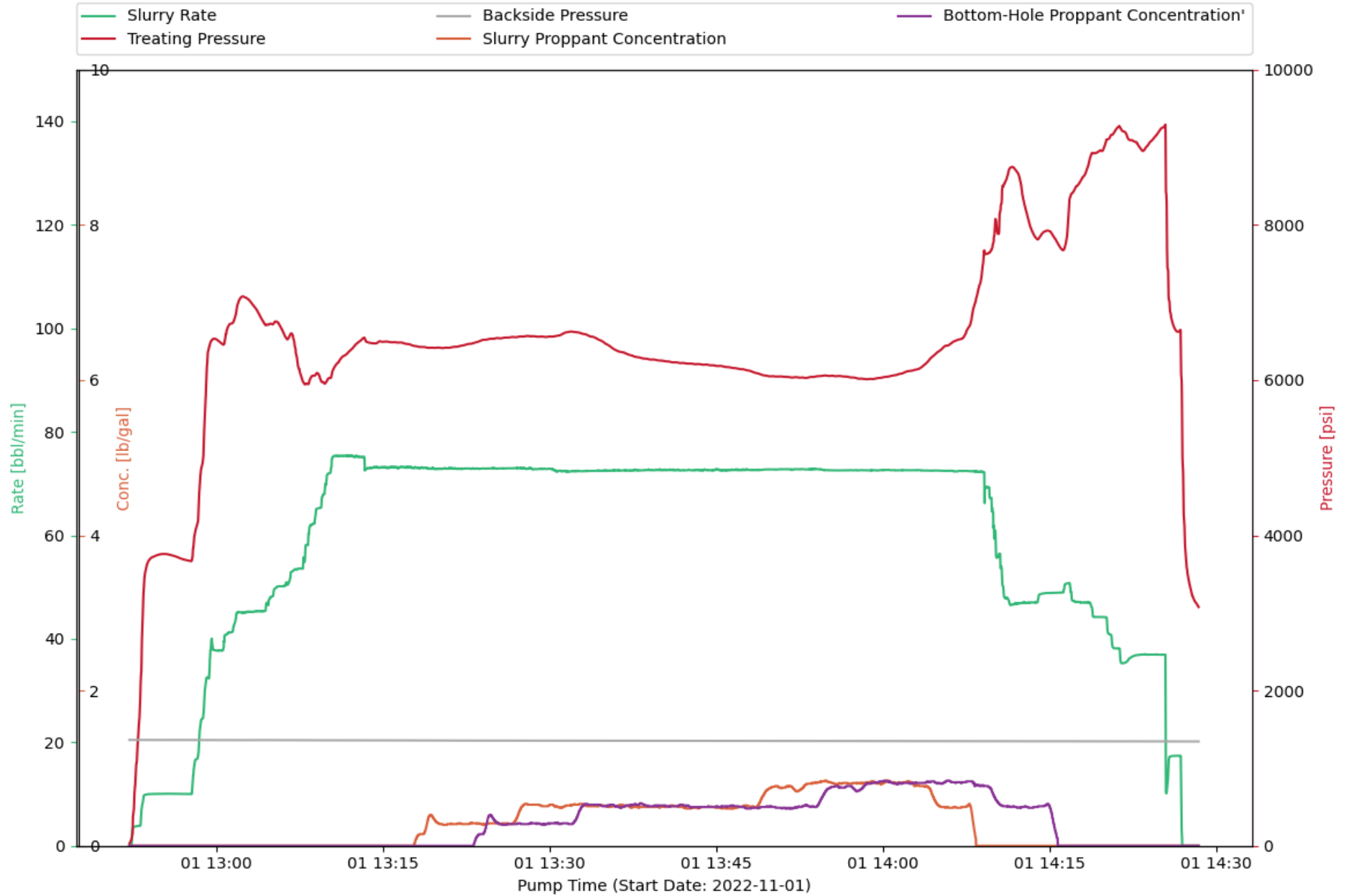
ACTUAL DESIGN

Treatment Interval	Stage Number	Stage Description	Fluid Description	Proppant Type	Proppant Conc. At Start (ppg)	Proppant Conc. At End (ppg)	Slurry Proppant Conc. (ppg)	Slurry Rate (bpm)	Actual Clean Volume (gal)	Slurry Volume (gal)	Total Clean Volume (gal)
41	2	Breakdown	FR Water (FightR EC-1)		0	0	0	3.74	662.02	662.03	15296341.07
	3	Acid	15% HCl		0	0	0	10.18	993.76	993.78	15297334.83
	4	Pad	FR Water (FightR EC-1)		0	0	0	22.84	7770.07	7770.12	15305104.9
	5	Pad	Hybor G 25#		0	0	0	80.37	22865.93	22865.87	15327970.83
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.35	4226.03	4229.98	15332196.86
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.26	42494.38	44630.74	15374691.24
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.44	11396.03	12716.52	15386087.27
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	83.01	296716.59	303561.03	15682803.86
	10	Flush	FR Water (FightR EC-1)		0	0	0	77.72	8460.94	8517.21	15691264.8
	11	Flush	FR Water (FightR EC-1)		0	0	0	46.71	11442.92	11445.53	15702707.72
42	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.65	724.43	724.41	15703432.15
	3	Acid	15% HCl		0	0	0	10.6	1140.82	1140.84	15704572.97
	4	Pad	FR Water (FightR EC-1)		0	0	0	20.85	5326.59	5326.59	15709899.56
	5	Pad	Hybor G 25#		0	0	0	18.5	1033.51	1033.51	15710933.07
	6	Pad	FR Water (FightR EC-1)		0	0	0	46.31	2364.74	2364.75	15713297.81
	7	Pad	Hybor G 25#		0	0	0	82.06	23572.62	23572.98	15736870.43
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.19	31151.22	32618.8	15768021.65
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.15	15304.47	16854.58	15783326.12
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.09	311764.12	319157.76	16095090.24
	11	Flush	FR Water (FightR EC-1)		0	0	0	85.14	3941.29	3969.45	16099031.53
	12	Flush	FR Water (FightR EC-1)		0	0	0	51.01	11206.89	11206.89	16110238.42
43	2	Breakdown	FR Water (FightR EC-1)		0	0	0	5.41	632.14	632.17	16110870.56

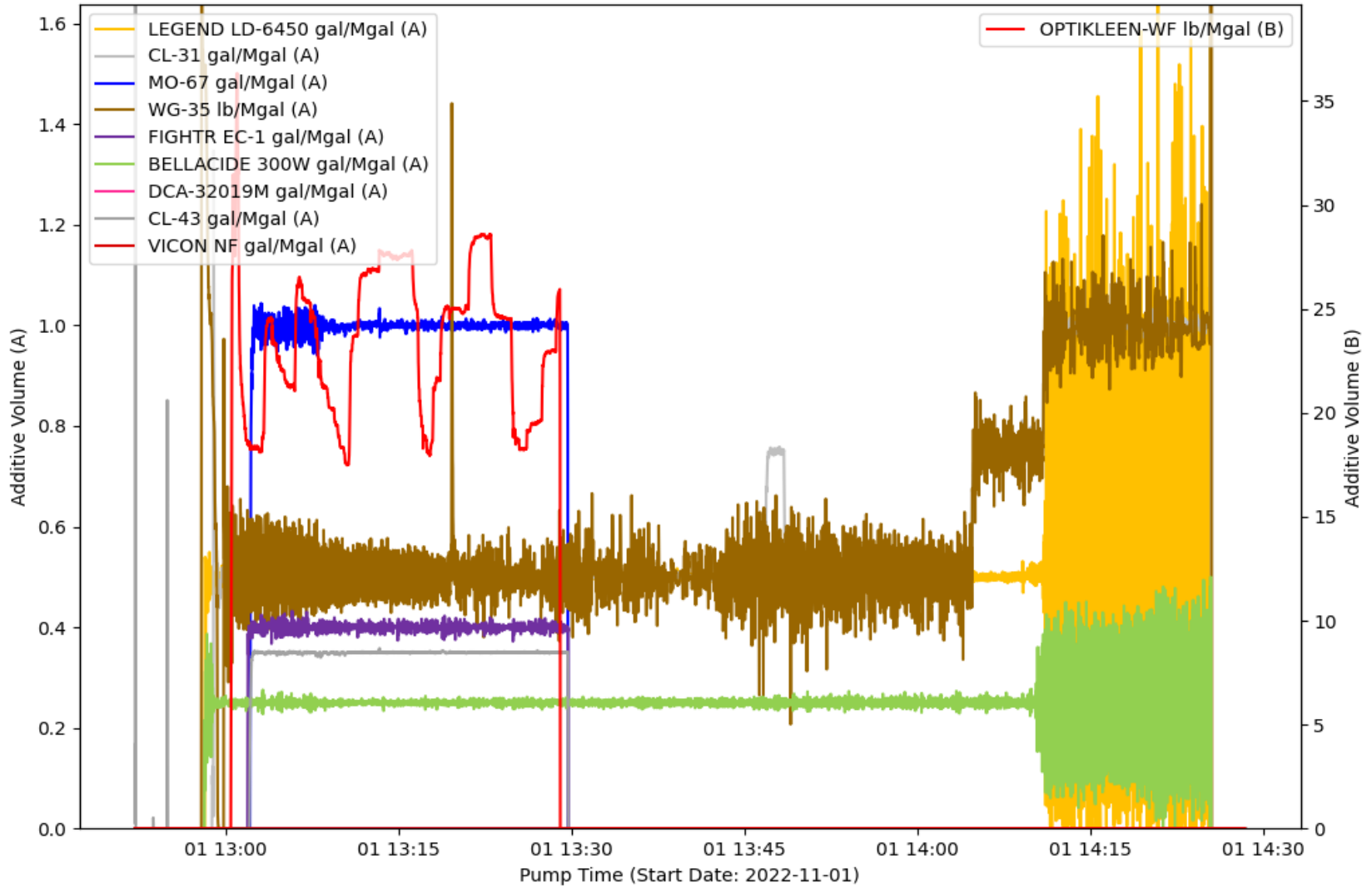
ACTUAL DESIGN

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)
43	3	Pad	Hybor G 25#		0	0	0	10.23	346.83	346.86	16111217.39
	4	Acid	15% HCl		0	0	0	11.44	1133.36	1133.38	16112350.75
	5	Pad	Hybor G 25#		0	0	0	28.6	202.25	202.24	16112553
	6	Pad	FR Water (FightR EC-1)		0	0	0	21.49	6568.19	6568.24	16119121.19
	7	Pad	Hybor G 25#		0	0	0	81.15	12522.05	12522.06	16131643.24
	8	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.91	38337.78	40530.39	16169981.02
	9	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	85.16	6736.48	7523.52	16176717.5
	10	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	84.87	353969.86	362359.95	16530687.36
	11	Flush	FR Water (FightR EC-1)		0	0	0	84.98	4824.7	4866.48	16535512.06
	12	Flush	FR Water (FightR EC-1)		0	0	0	49.71	10948.27	10948.37	16546460.33
44	2	Breakdown	FR Water (FightR EC-1)		0	0	0	7.08	713.63	713.68	16547173.96
	3	Acid	15% HCl		0	0	0	10.01	991.42	991.45	16548165.38
	4	Pad	FR Water (FightR EC-1)		0	0	0	26.03	8659.39	8659.48	16556824.77
	5	Pad	Hybor G 25#		0	0	0	84.46	18818.37	18818.44	16575643.14
	6	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.56	38364.65	40310.36	16614007.79
	7	PLF	Hybor G 25#	30/50 Premium White	0	2.5	1.25	84.39	10492.24	11700.36	16624500.03
	8	PLF	FR Water (FightR EC-1)	30/50 Premium White	0	2.5	1.25	84.46	2781.13	3103.97	16627281.16
	9	PLF	FR Water (FightR EC-1)	30/50 Premium White	0.5	0.5	0.5	85.05	284815.66	291882.16	16912096.82
	10	Flush	FR Water (FightR EC-1)		0	0	0	85.57	3540.09	3569.5	16915636.91
	11	Flush	FR Water (FightR EC-1)		0	0	0	23.18	14127.45	14127.54	16929764.36
Total								16929764.36	17301448.75		

TREATMENT PLOT : Treatment Interval 1



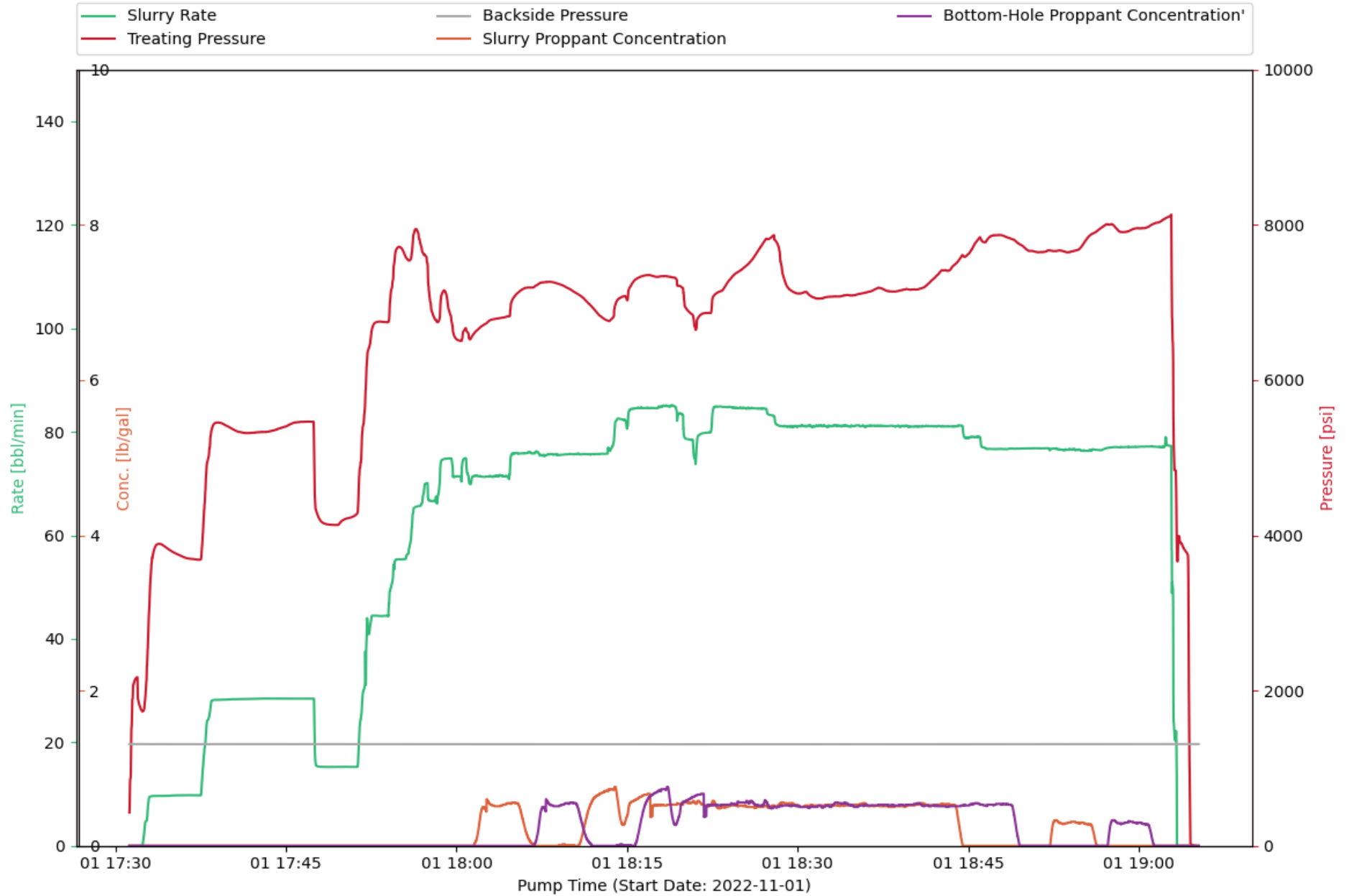
CHEMISTRY PLOT : Treatment Interval 1



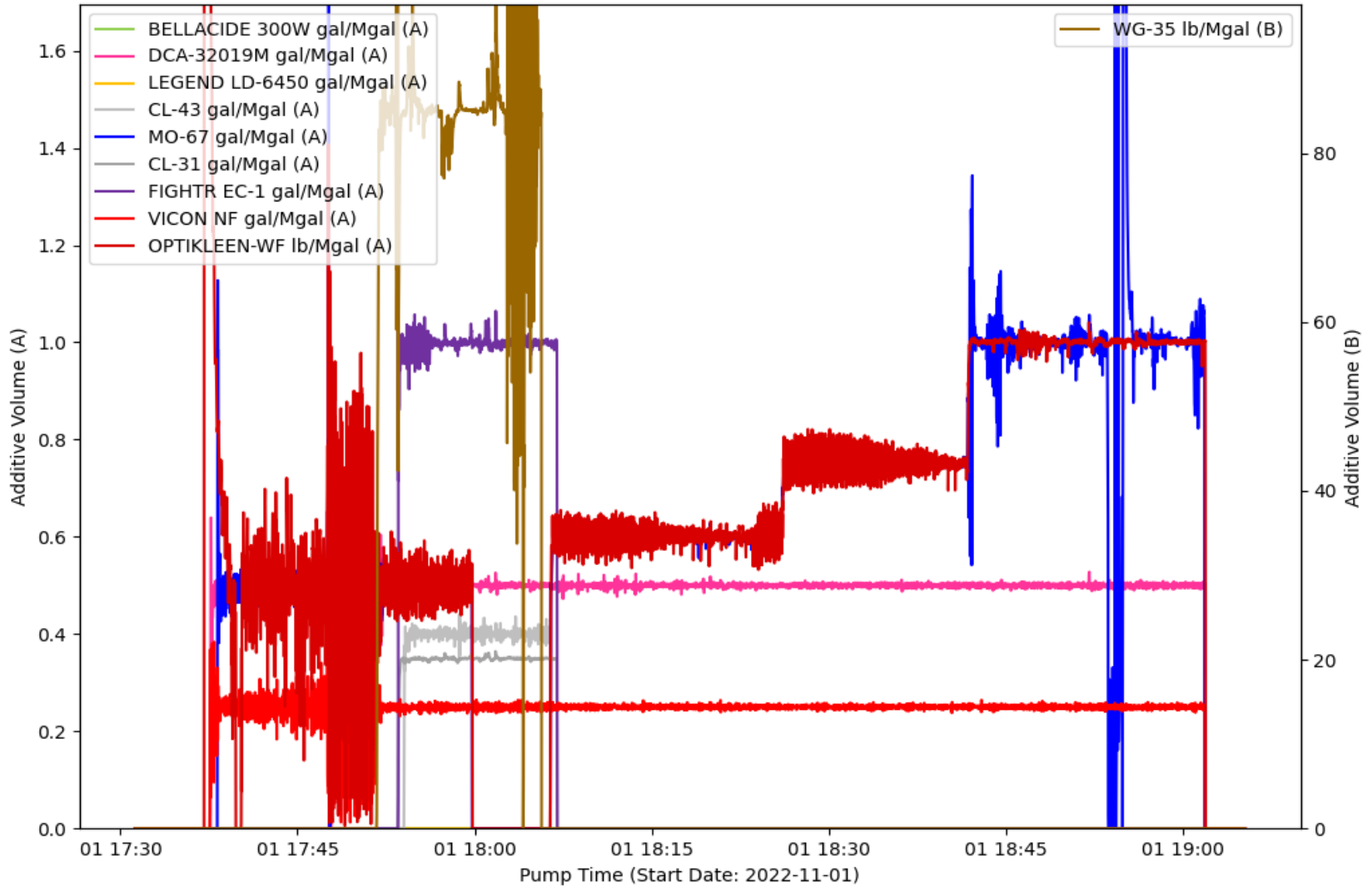
EVENT LOG : TREATMENT INTERVAL 1

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-01T12:52:13	0	38.74	0	0	0	0	0
2	Break Formation	2022-11-01T12:54:00	10	3690	0	0	438.52	438.52	0
3	Pump Acid	2022-11-01T12:55:41	10.08	3754	0	0	1147	1147	0
4	Stop Pumping	2022-11-01T14:27:01	0	4592	0	0	234841	238576	82260
5	ISIP	2022-11-01T14:27:03	0	4272	0	0	234841	238576	82260
6	Shut In Well	2022-11-01T14:28:21	0	3084	0	0	234841	238576	82260

TREATMENT PLOT : Treatment Interval 2



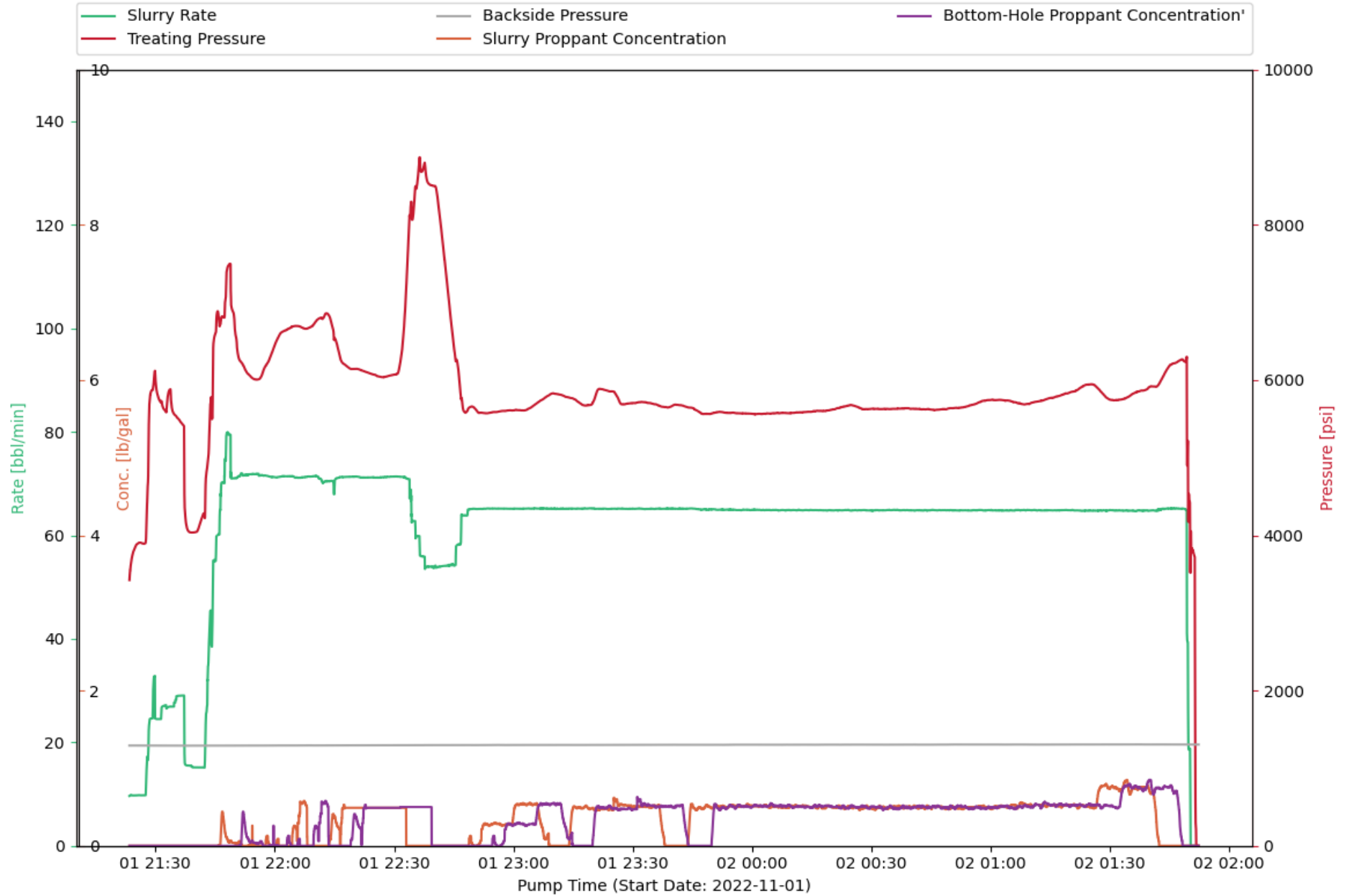
CHEMISTRY PLOT : Treatment Interval 2



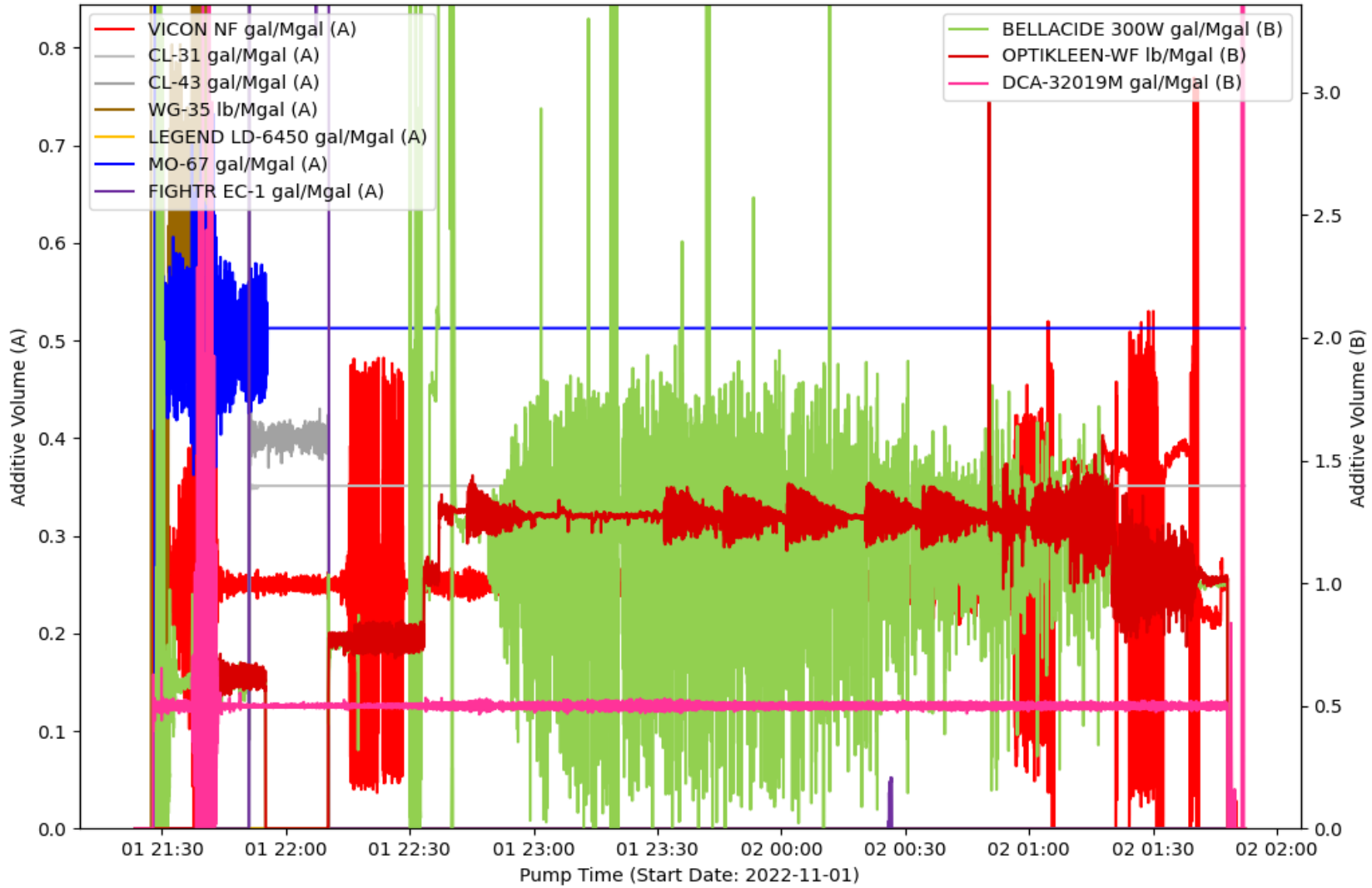
EVENT LOG : TREATMENT INTERVAL 2

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	2022-11-01T17:32:14	0.01	1761	0	0	0.01	0.01	0
2	Start Pumping	2022-11-01T17:32:23	0.01	1730	0	0	0.03	0.03	0
3	Pump Acid	2022-11-01T17:34:57	9.71	3794	0	0	923.45	923.45	0
4	Ball on Seat	2022-11-01T17:49:43	15.24	4155	0	0	15012	15012	0
5	Break Formation	2022-11-01T17:51:12	15.23	4270	0	0	15961	15961	0
6	Pump Xlink Pill	2022-11-01T17:59:51	71.27	6555	0	0	36243	36243	0
7	Stop Pumping	2022-11-01T19:03:21	13.06	3900	0	0	242588	245711	68835
8	ISIP	2022-11-01T19:03:29	0	3966	0	0	242588	245711	68835
9	Shut In Well	2022-11-01T19:04:16	0	3767	0	0	242588	245711	68835

TREATMENT PLOT : Treatment Interval 3



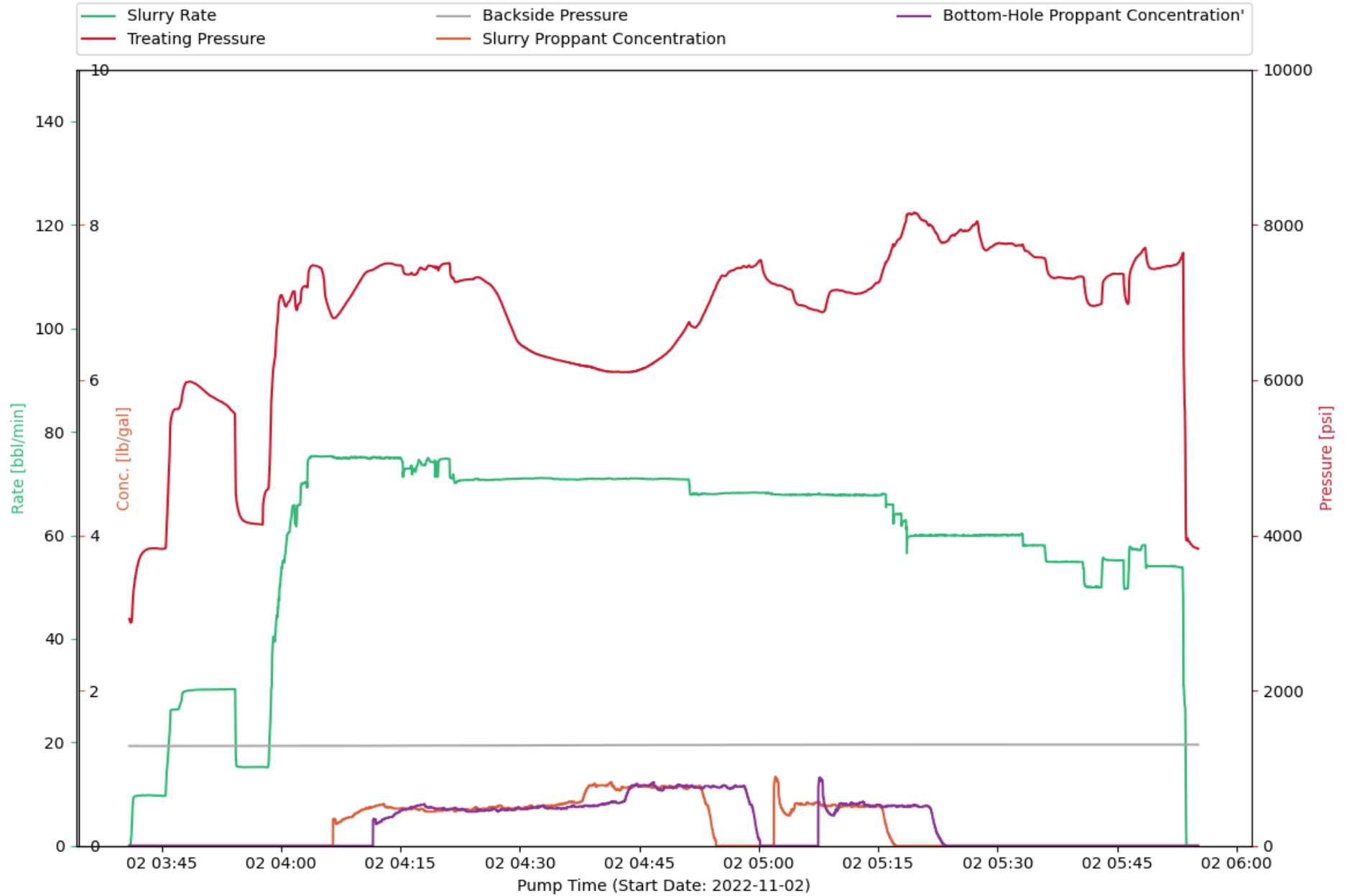
CHEMISTRY PLOT : Treatment Interval 3



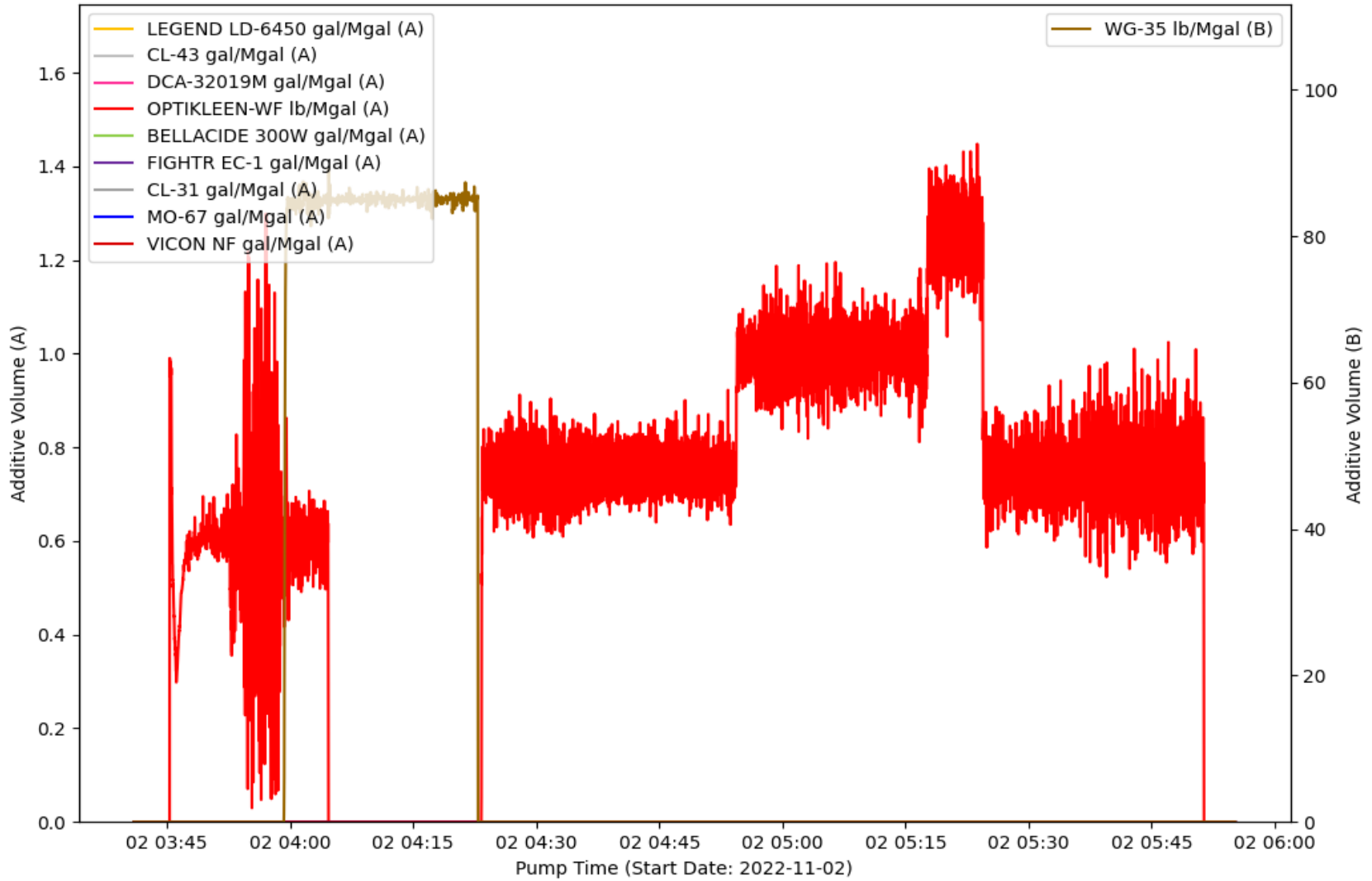
EVENT LOG : TREATMENT INTERVAL 3

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	Pump Acid	2022-11-01T21:24:28	9.73	3793	0	0	407.33	407.33	0
2	Break Formation	2022-11-01T21:40:21	15.15	4044	0	0	14335	14335	0
3	Ball on Seat	2022-11-01T21:42:02	15.17	4276	0	0	15407	15407	0
4	Pump Xlink Pill	2022-11-01T21:53:32	71.75	6067	0.01	0.06	45211	45291	1761
5	Stop Pumping	2022-11-02T01:50:15	0	3645	0	0	684200	695368	245925
6	ISIP	2022-11-02T01:50:16	0	3815	0	0	684200	695368	245925
7	Shut In Well	2022-11-02T01:51:16	0	3727	0	0	684200	695368	245925

TREATMENT PLOT : Treatment Interval 4



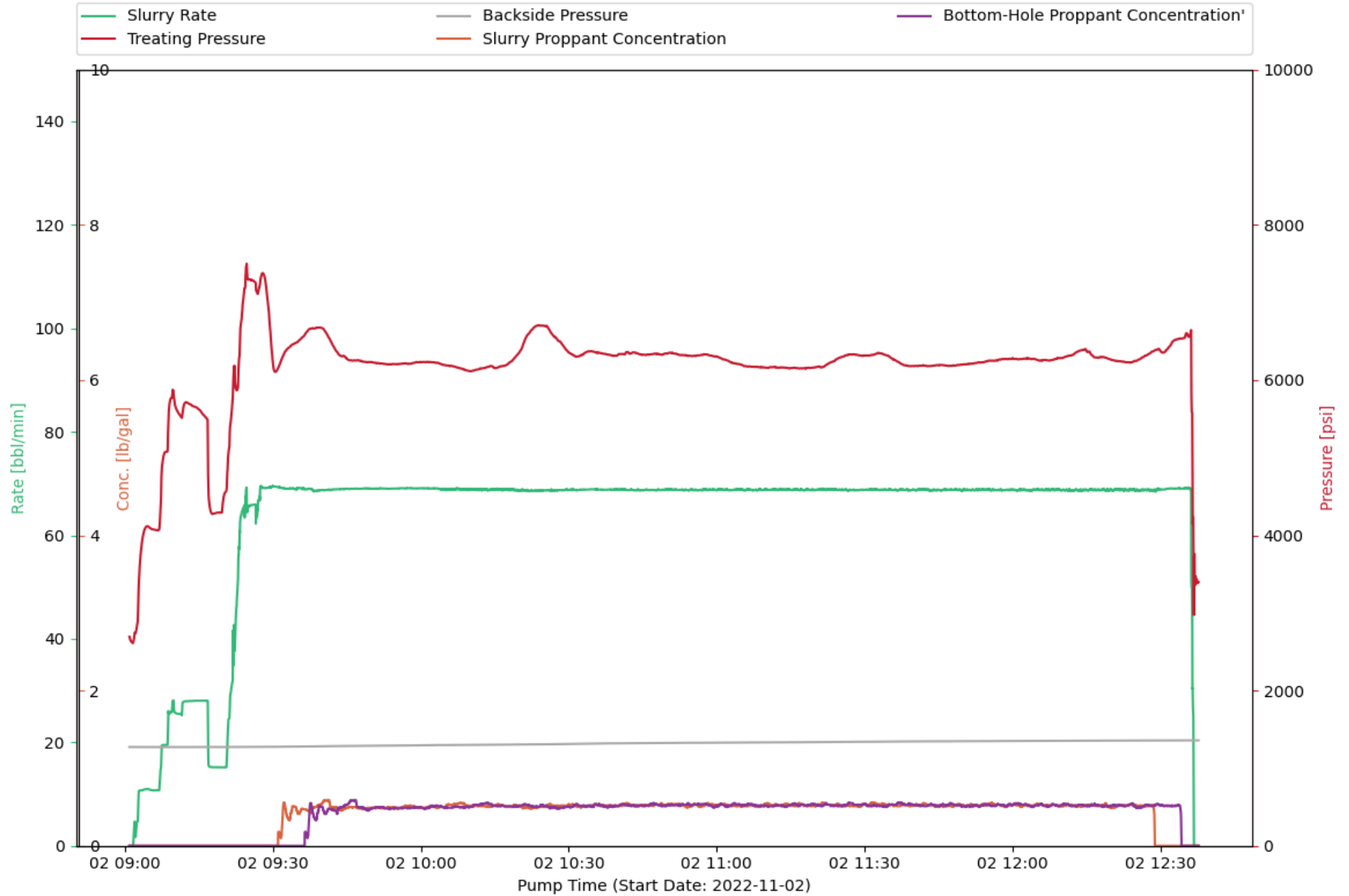
CHEMISTRY PLOT : Treatment Interval 4



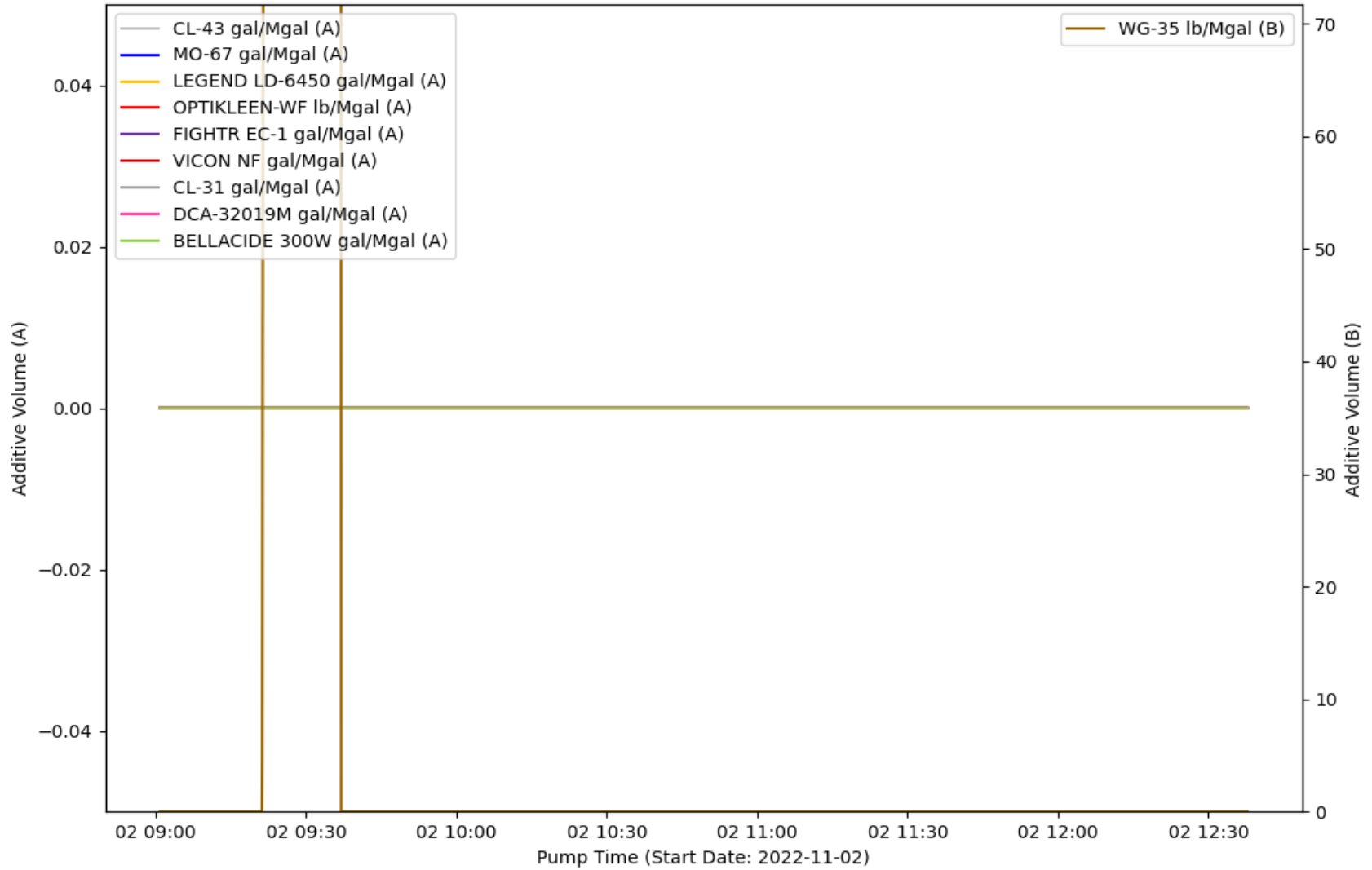
EVENT LOG : TREATMENT INTERVAL 4

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	2022-11-02T03:41:00	0.04	2909	0	0	0.03	0.03	0
2	Start Pumping	2022-11-02T03:41:05	0.02	2879	0	0	0.08	0.08	0
3	Pump Acid	2022-11-02T03:43:26	9.79	3829	0	0	870.27	870.26	0
4	Ball on Seat	2022-11-02T03:57:41	15.23	4139	0	0	14480	14480	0
5	Break Formation	2022-11-02T03:58:05	15.18	4564	0	0	14738	14738	0
6	Pump Xlink Pill	2022-11-02T04:00:41	58.44	6953	0	0	19085	19085	0
7	Stop Pumping	2022-11-02T05:53:42	0	3938	0	0	328337	332867	99803
8	ISIP	2022-11-02T05:53:46	0	3950	0	0	328337	332867	99803
9	Shut In Well	2022-11-02T05:55:08	0	3831	0	0	328337	332867	99803

TREATMENT PLOT : Treatment Interval 5



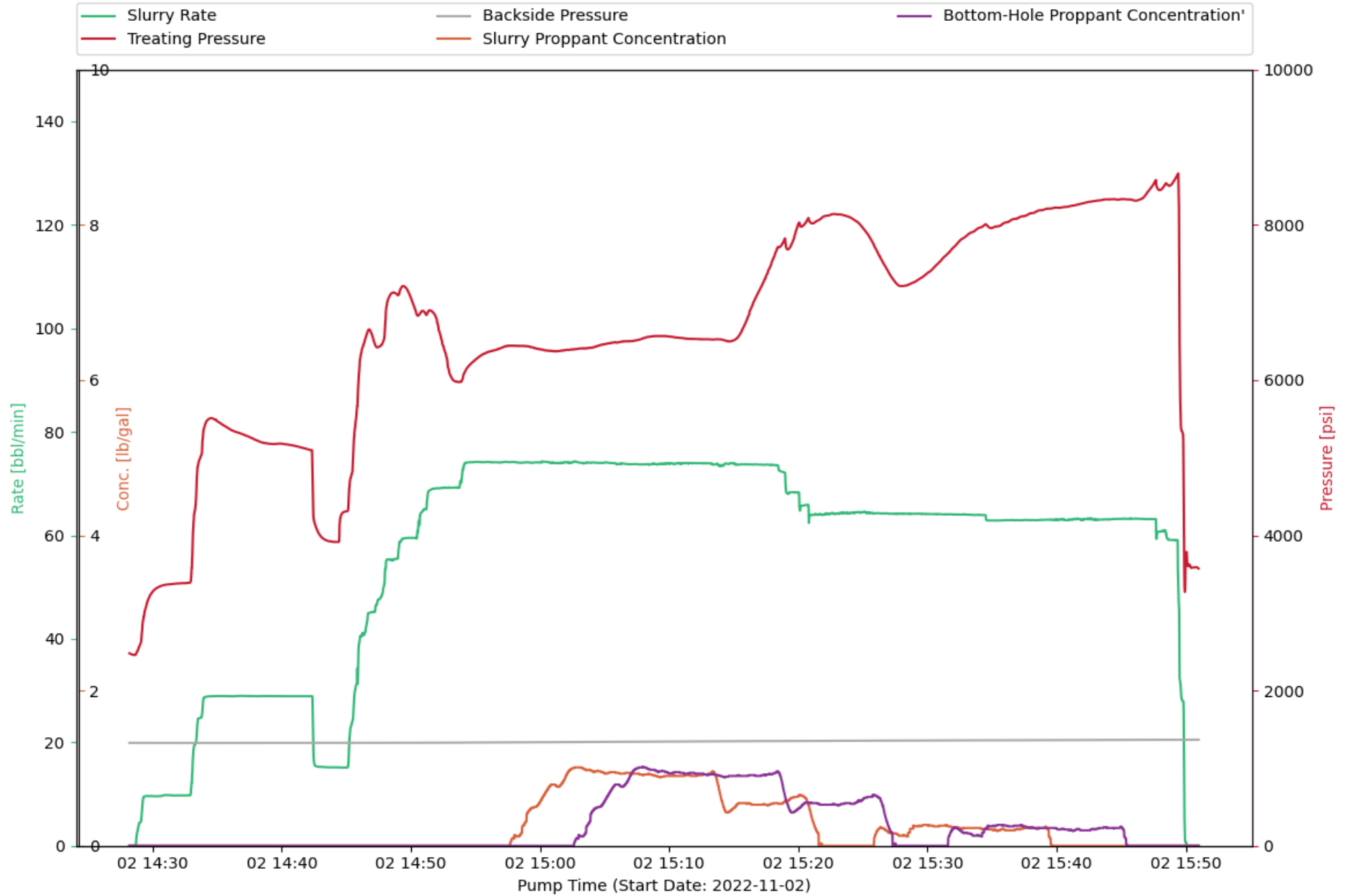
CHEMISTRY PLOT : Treatment Interval 5



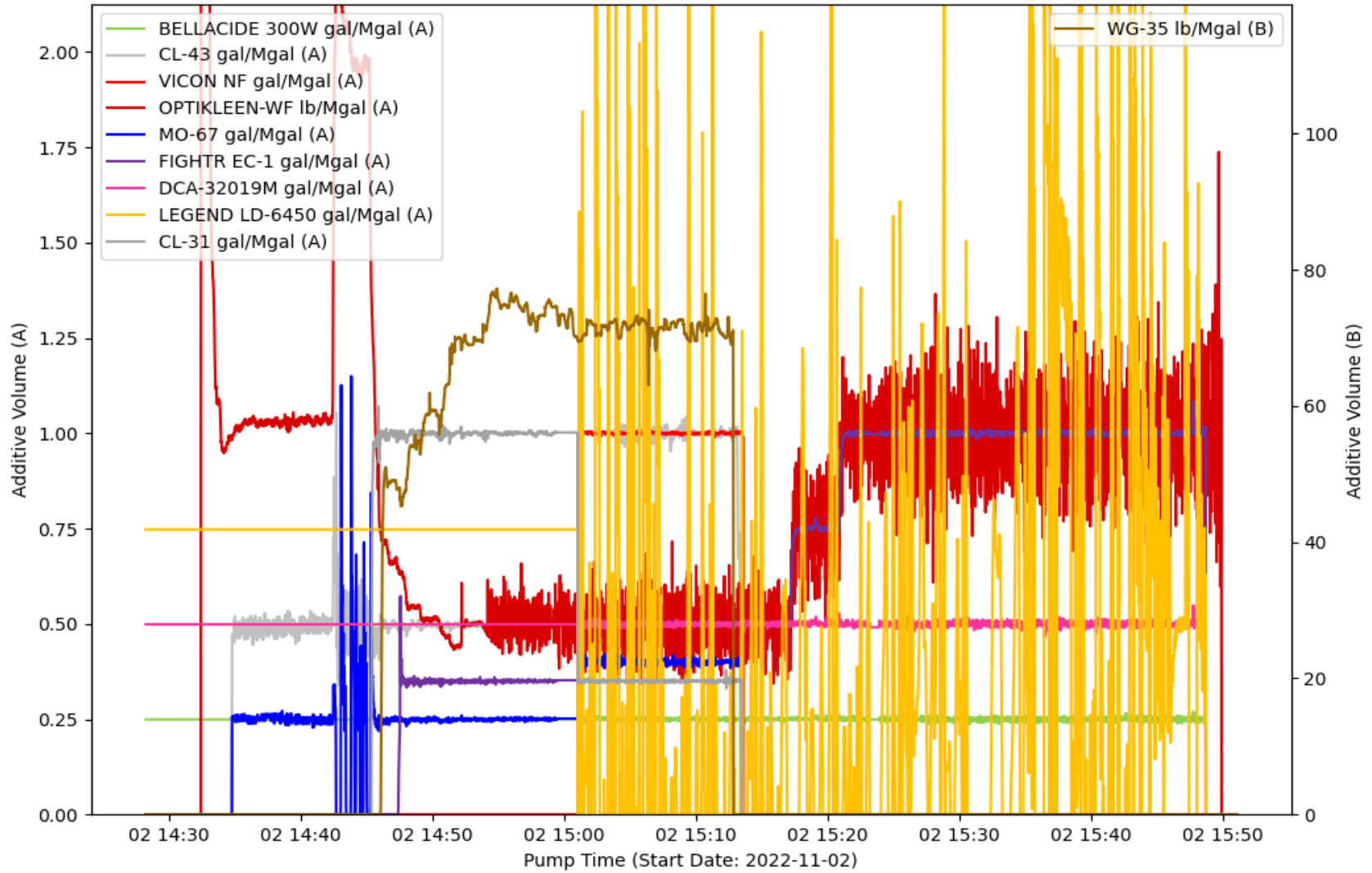
EVENT LOG : TREATMENT INTERVAL 5

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	2022-11-02T09:00:56	0	2683	0	0	0	0	0
2	Start Avg Trt 5	2022-11-02T09:01:00	0	2668	0	0	0	0	0
3	Start Pumping	2022-11-02T09:01:13	0	2635	0	0	0	0	0
4	Pump Acid	2022-11-02T09:04:25	10.95	4117	0	0	936.81	936.81	0
5	Ball on Seat	2022-11-02T09:19:41	15.16	4312	0	0	14543	14543	0
6	Break Formation	2022-11-02T09:20:00	15.17	4493	0	0	14736	14736	0
7	Stop Pumping	2022-11-02T12:36:49	2.21	2974	0	0	565872	577572	258123
8	ISIP	2022-11-02T12:36:52	0	3634	0	0	565872	577572	258123
9	Shut In Well	2022-11-02T12:37:44	0	3396	0	0	565872	577572	258123

TREATMENT PLOT : Treatment Interval 6



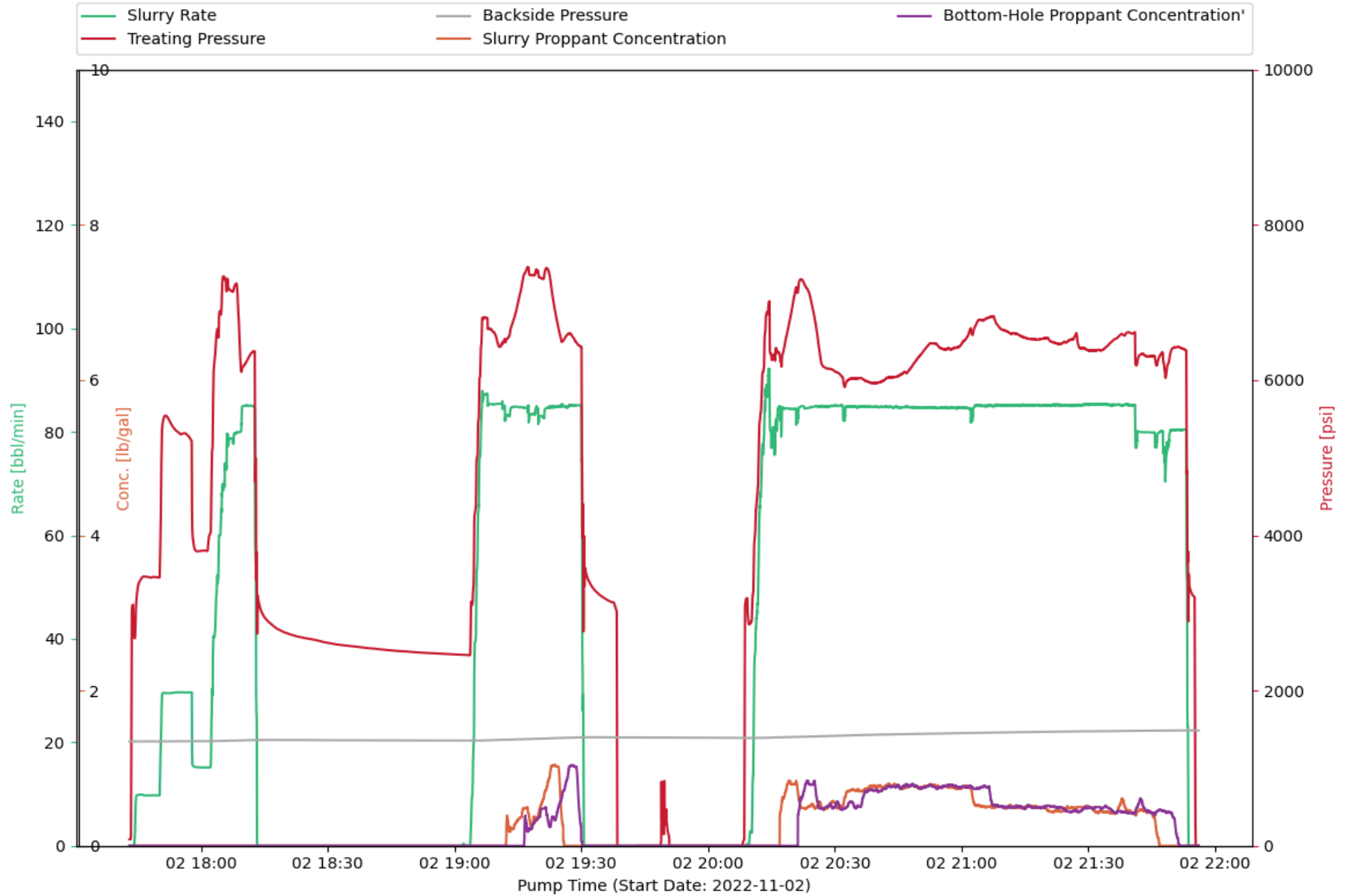
CHEMISTRY PLOT : Treatment Interval 6



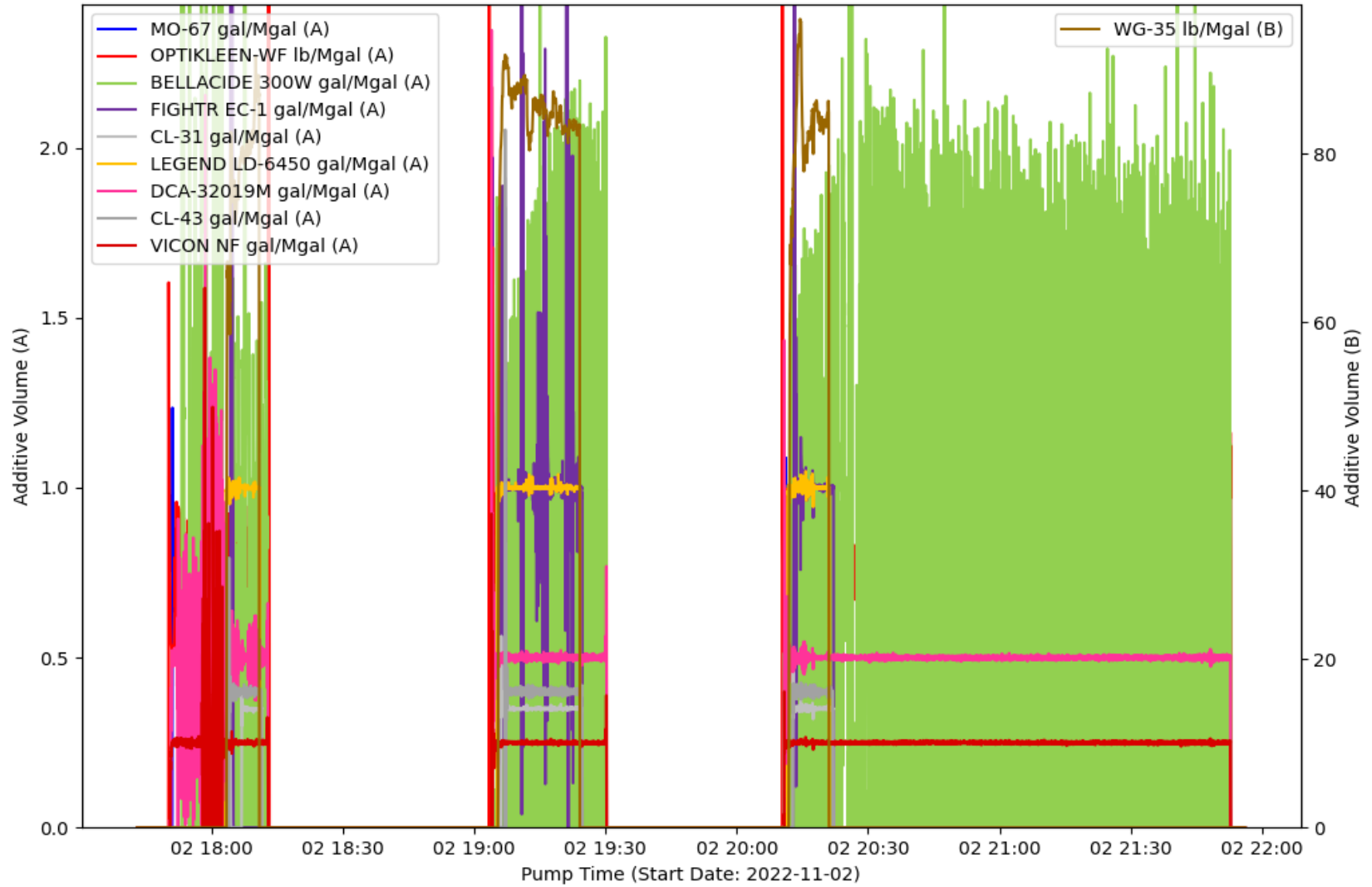
EVENT LOG : TREATMENT INTERVAL 6

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-02T14:28:15	0	2476	0	0	0	0	0
2	Start Pumping	2022-11-02T14:28:40	0.01	2461	0	0	0.04	0.04	0
3	Pump Acid	2022-11-02T14:30:00	9.6	3273	0	0	397.38	397.38	0
4	Ball on Seat	2022-11-02T14:44:23	15.15	3914	0	0	14039	14039	0
5	Break Formation	2022-11-02T14:44:28	15.15	4006	0	0	14092	14092	0
6	Stop Pumping	2022-11-02T15:49:55	2.86	3276	0	0	192141	194803	59297
7	ISIP	2022-11-02T15:49:59	0.69	3690	0	0	192143	194805	59297
8	Shut In Well	2022-11-02T15:50:57	0	3578	0	0	192145	194807	59297

TREATMENT PLOT : Treatment Interval 7



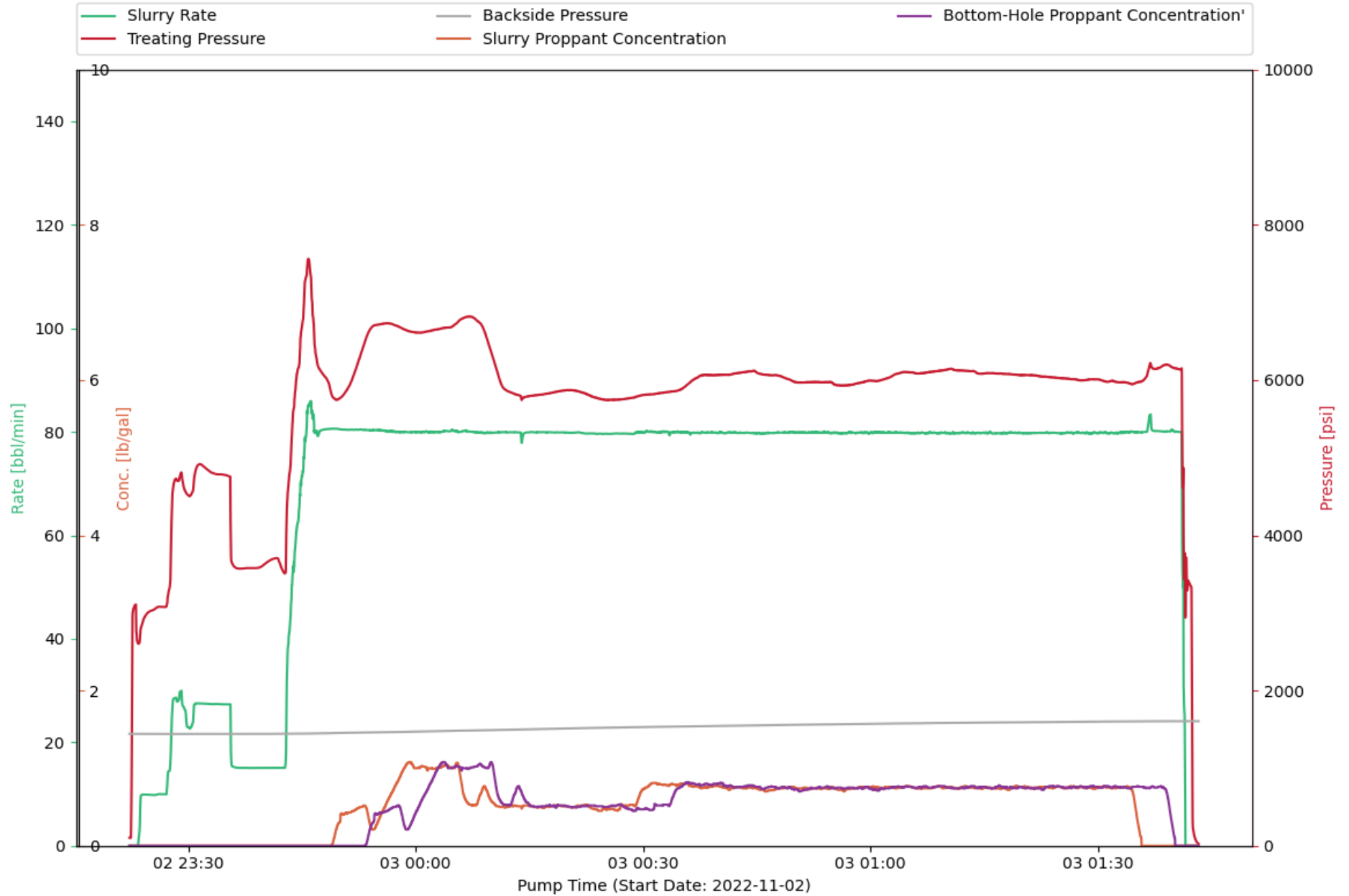
CHEMISTRY PLOT : Treatment Interval 7



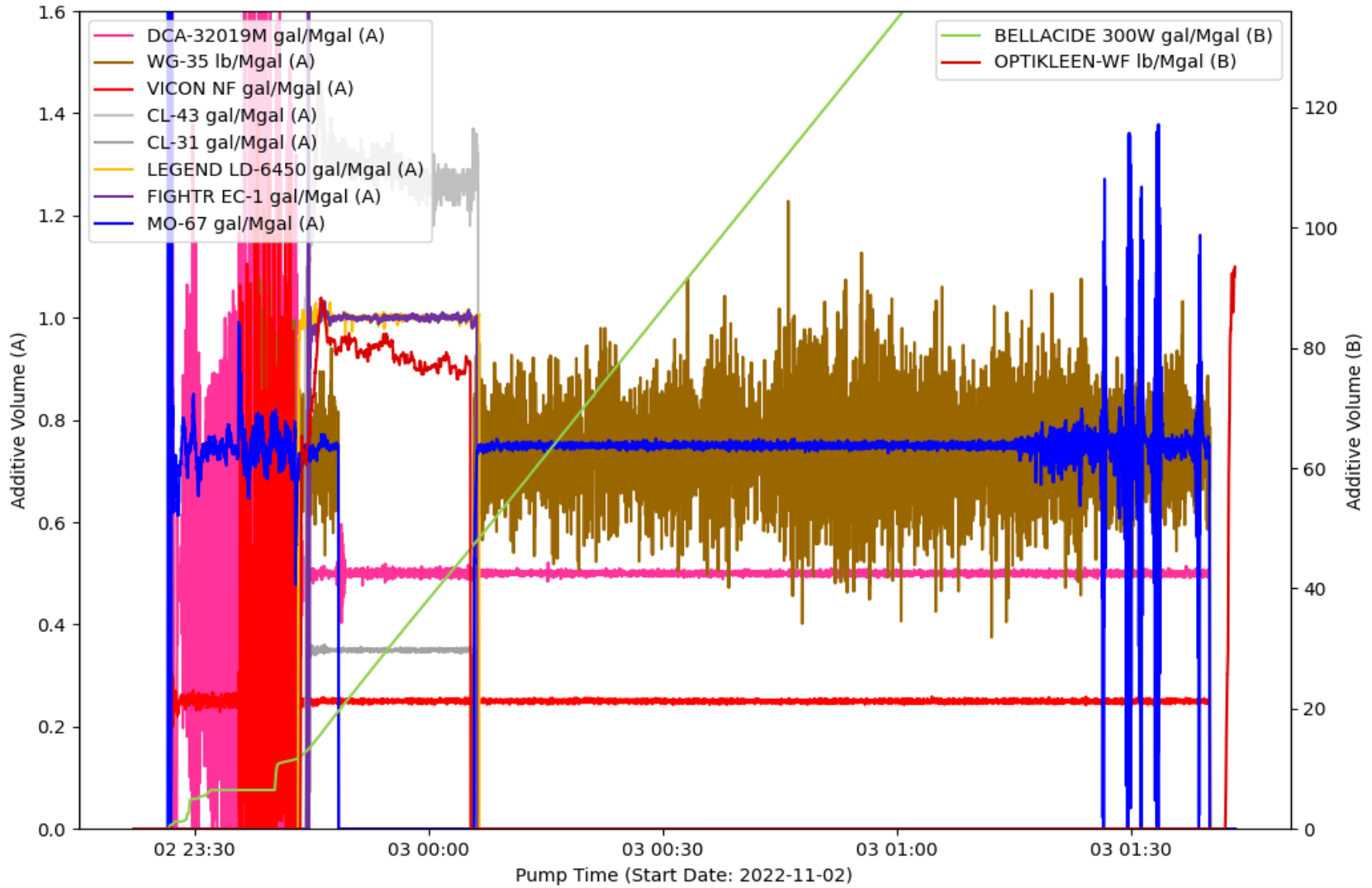
EVENT LOG : TREATMENT INTERVAL 7

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	2022-11-02T17:44:01	0	2730	0	0	0	0	0
2	Start Pumping	2022-11-02T17:44:07	0	2691	0	0	0	0	0
3	Pump Acid	2022-11-02T17:46:13	9.83	3466	0	0	761.16	761.15	0
4	Ball on Seat	2022-11-02T18:01:32	15.14	3807	0	0	14039	14039	0
5	Break Formation	2022-11-02T18:02:00	15.13	4011	0	0	14338	14338	0
6	Pump Xlink Pill	2022-11-02T18:06:51	78.7	7158	0	0	25771	25771	0
7	Stop Pumping	2022-11-02T18:13:11	18.02	3480	0	0	46875	46875	0
8	Start Pumping	2022-11-02T19:03:37	0.01	2455	0	0	46877	46877	0
9	Pump Xlink Pill	2022-11-02T19:05:02	40.63	4390	0	0	48001	48001	0
10	Stop Pumping	2022-11-02T19:30:35	0	3882	0	0	135664	136756	24371
11	Start Pumping	2022-11-02T20:09:02	0	3183	0	0	135664	136756	24371
12	Pump Xlink Pill	2022-11-02T20:12:46	76.32	5986	0	0	140308	141400	24371
13	Stop Pumping	2022-11-02T21:53:39	9.07	2895	0	0	487642	496947	205463
14	ISIP	2022-11-02T21:53:44	0	3322	0	0	487642	496947	205463
15	Shut In Well	2022-11-02T21:55:06	0	3207	0	0	487642	496947	205463

TREATMENT PLOT : Treatment Interval 8



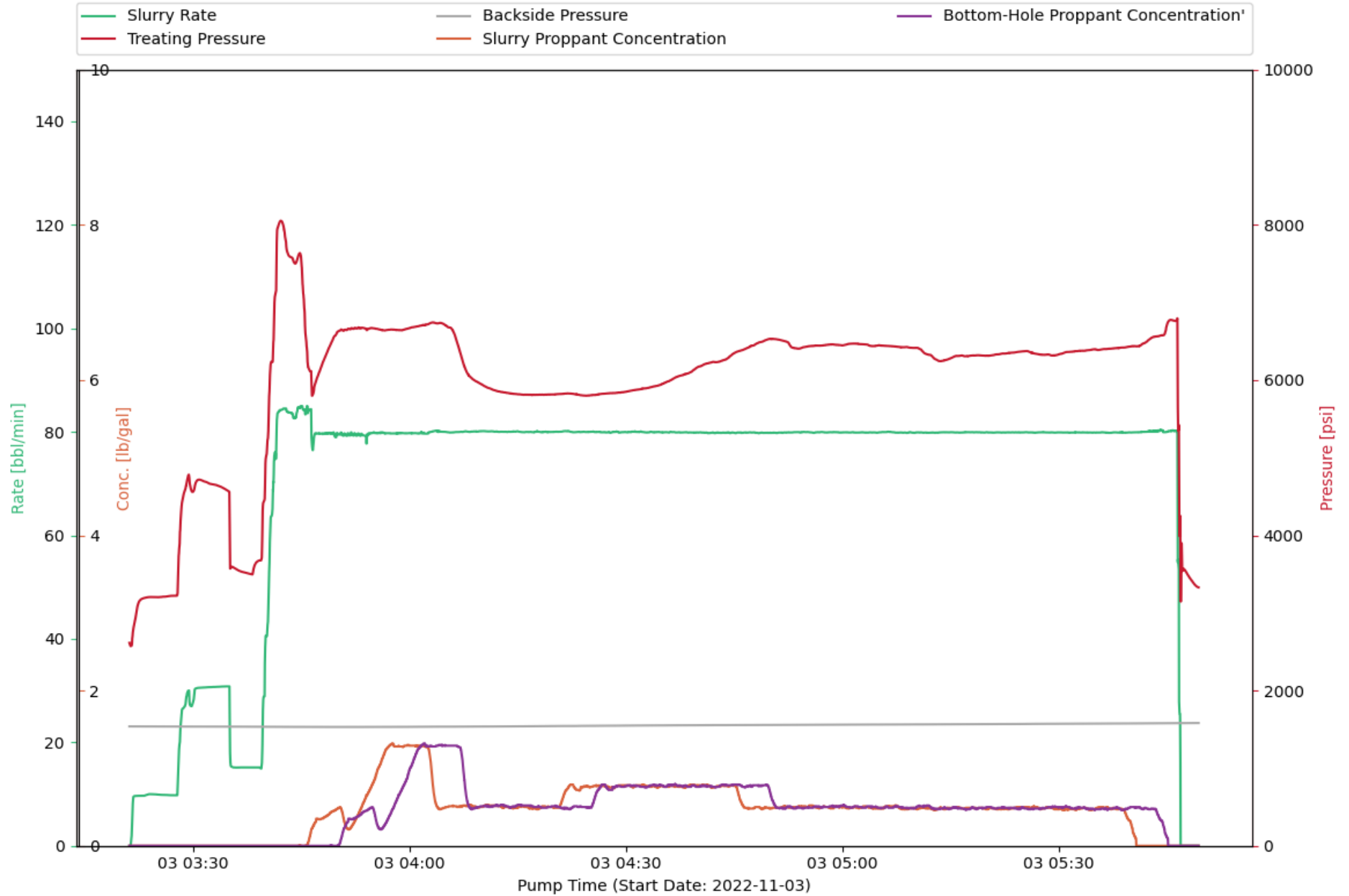
CHEMISTRY PLOT : Treatment Interval 8



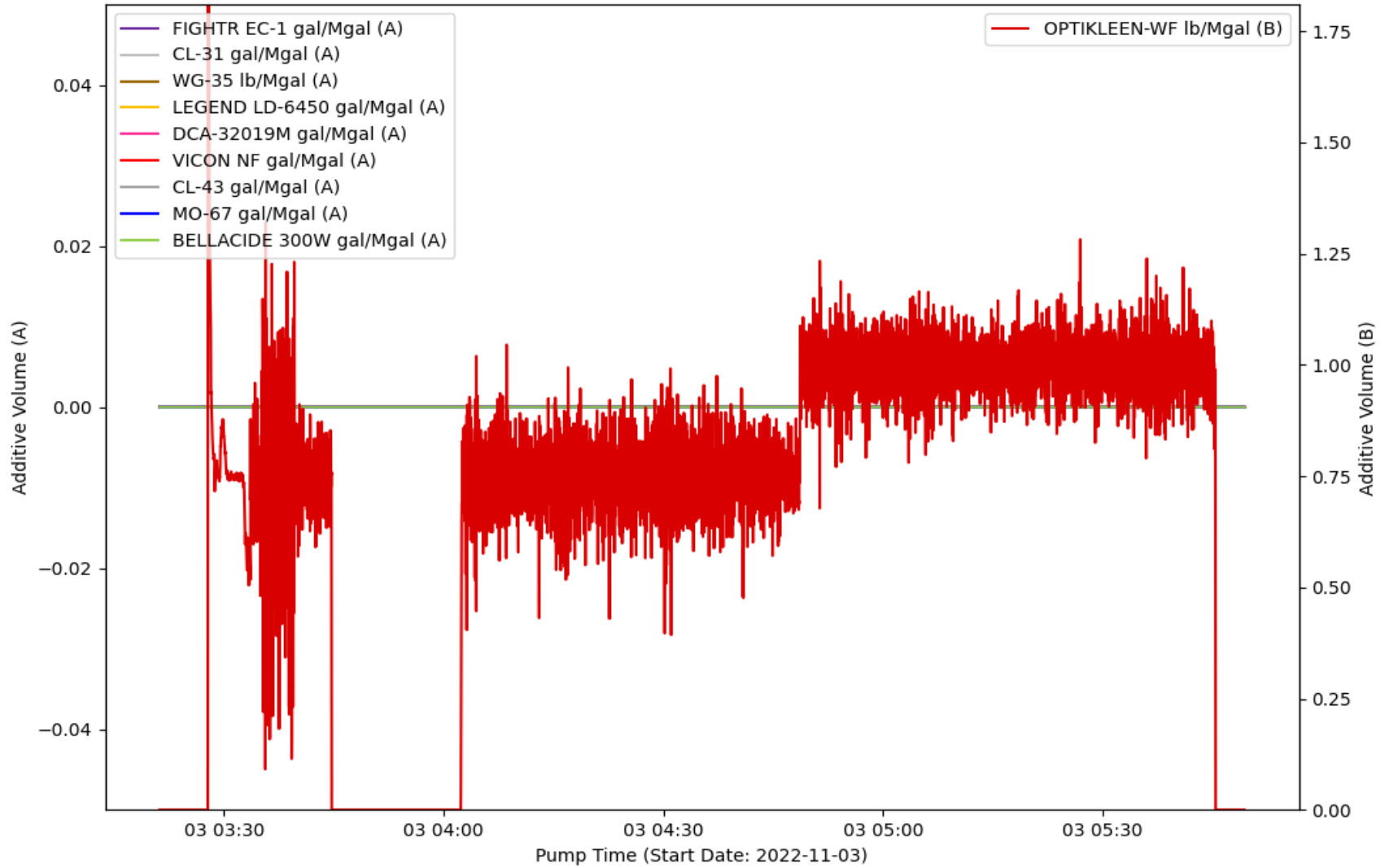
EVENT LOG : TREATMENT INTERVAL 8

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Start Avg Trt 8	2022-11-02T23:23:04	0	3107	0	0	0	0	0
2	Open Well	2022-11-02T23:23:15	0	2644	0	0	0	0	0
3	Start Pumping	2022-11-02T23:23:22	0	2607	0	0	0	0	0
4	Pump Acid	2022-11-02T23:25:42	9.81	3059	0	0	873.92	873.92	0
5	Break Formation	2022-11-02T23:39:34	15.07	3592	0	0	13253	13253	0
6	Ball on Seat	2022-11-02T23:41:44	15.08	3707	0	0	14627	14627	0
7	Pump Xlink Pill	2022-11-02T23:44:30	62.74	6153	0	0	18646	18646	0
8	Stop Pumping	2022-11-03T01:41:31	0	2942	0	0	399527	410402	239674
9	ISIP	2022-11-03T01:41:35	0	3316	0	0	399527	410402	239674
10	Shut In Well	2022-11-03T01:42:16	0	3342	0	0	399527	410402	239674

TREATMENT PLOT : Treatment Interval 9



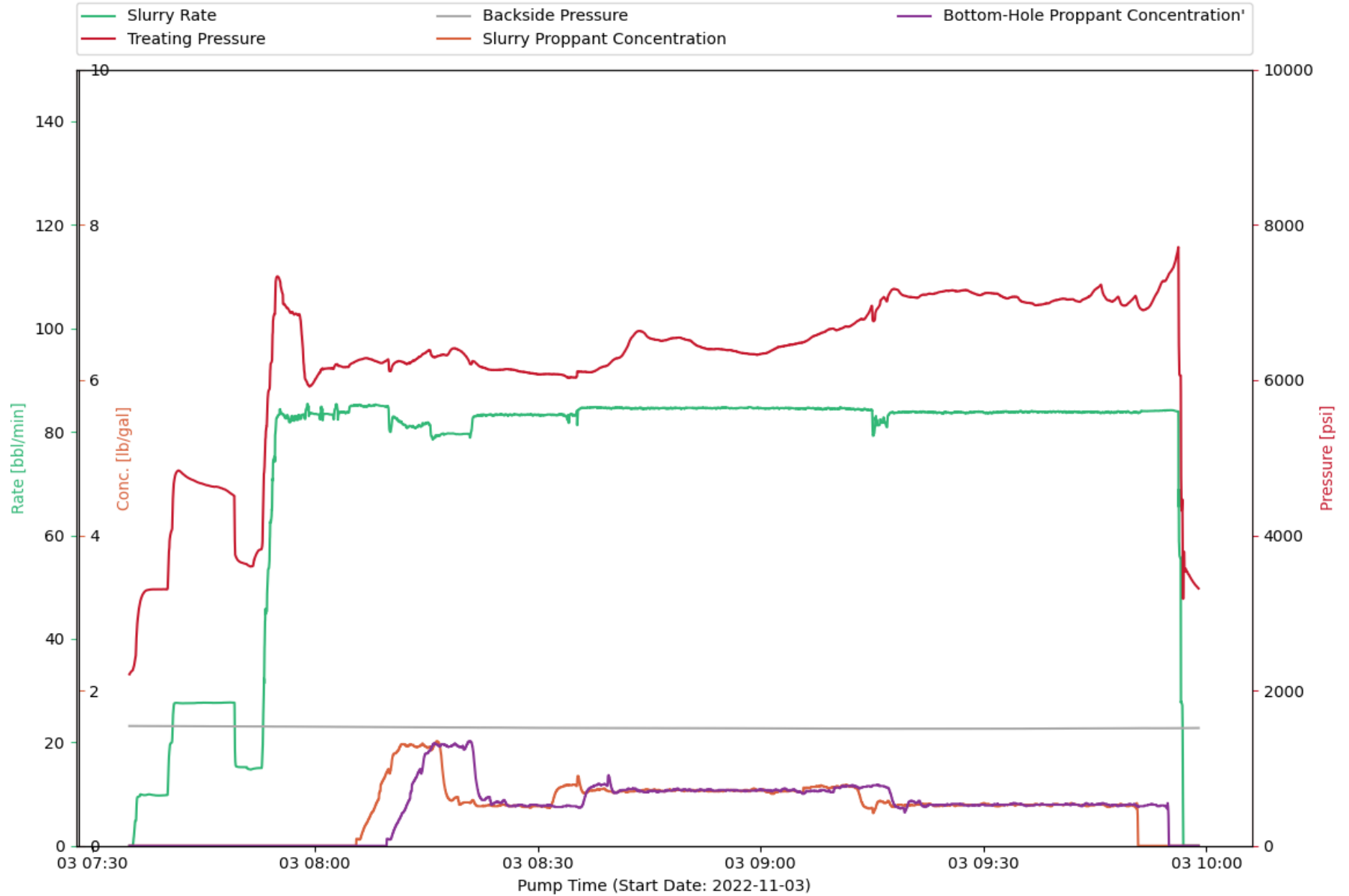
CHEMISTRY PLOT : Treatment Interval 9



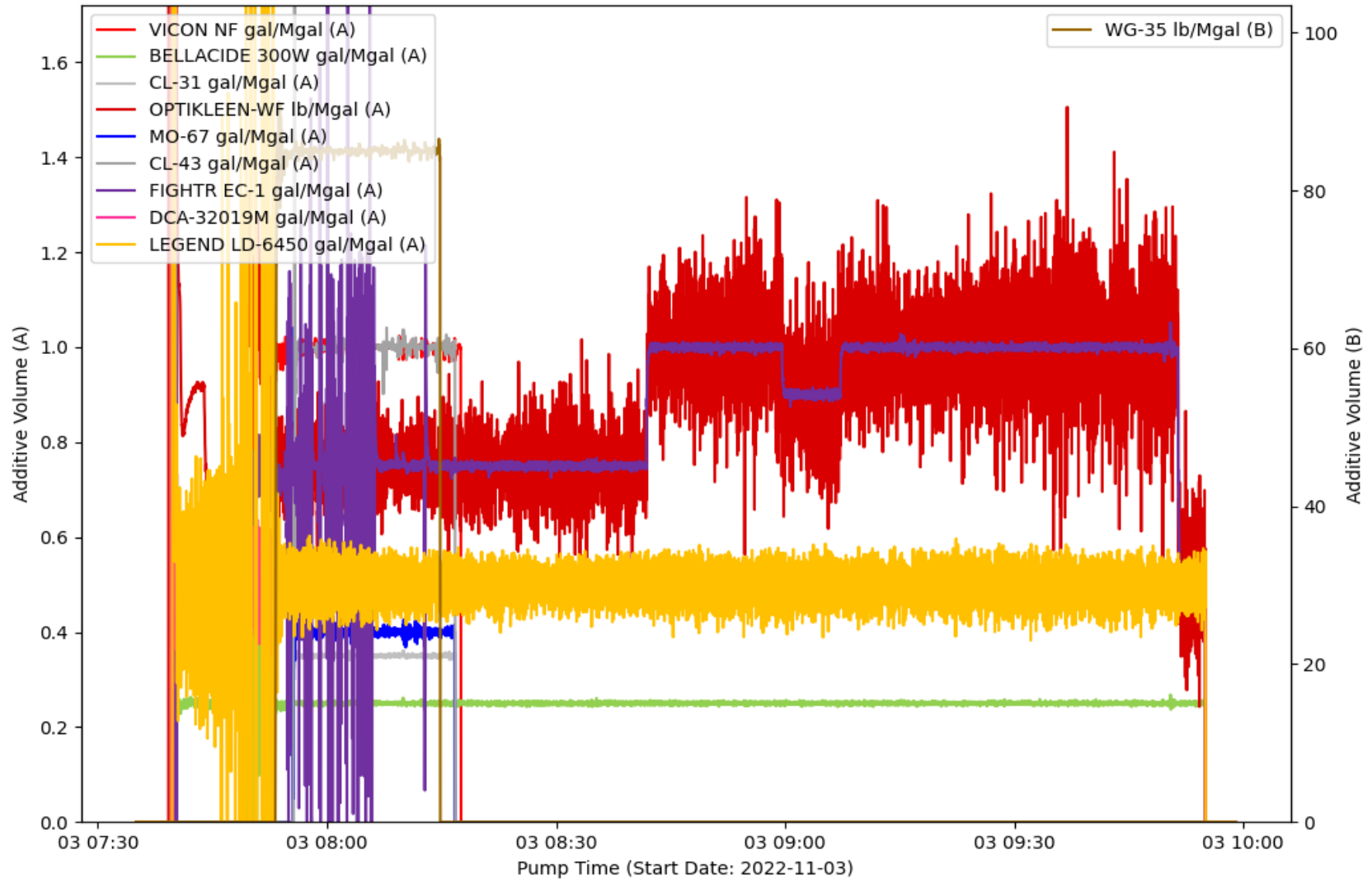
EVENT LOG : TREATMENT INTERVAL 9

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	2022-11-03T03:21:16	0	2604	0	0	0	0	0
2	Start Pumping	2022-11-03T03:21:24	0.03	2572	0	0	0.02	0.02	0
3	Pump Acid	2022-11-03T03:23:23	9.73	3195	0	0	728.15	728.15	0
4	Ball on Seat	2022-11-03T03:38:15	15.17	3496	0	0	13434	13434	0
5	Break Formation	2022-11-03T03:39:02	15.14	3669	0	0	13937	13937	0
6	Pump Xlink Pill	2022-11-03T03:42:40	84.52	7934	0	0	22459	22459	0
7	Stop Pumping	2022-11-03T05:46:48	16.39	3852	0	0	428917	438960	221350
8	ISIP	2022-11-03T05:46:54	0	3438	0	0	428917	438960	221350
9	Shut In Well	2022-11-03T05:49:17	0	3330	0	0	428917	438960	221350

TREATMENT PLOT : Treatment Interval 10



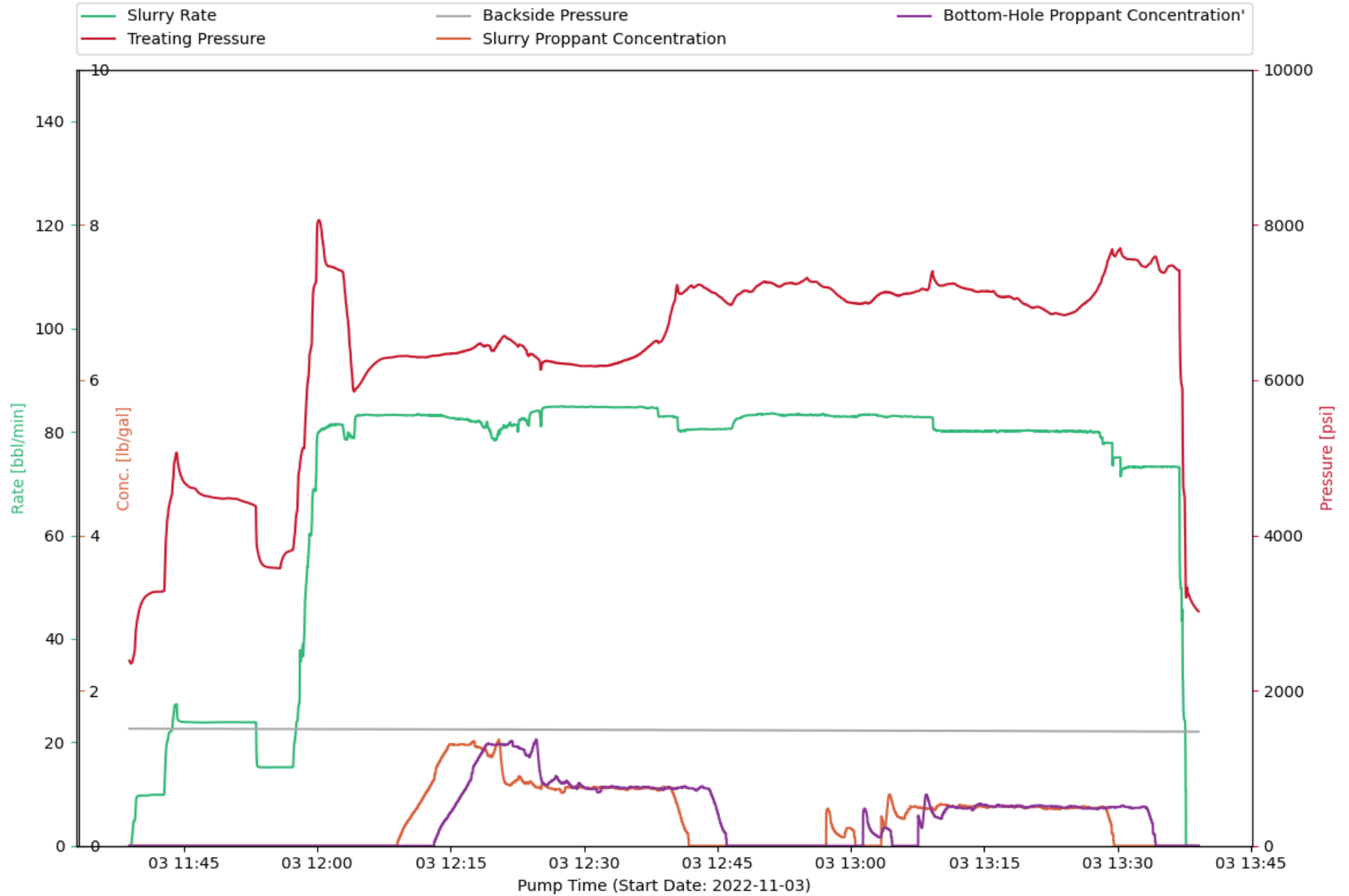
CHEMISTRY PLOT : Treatment Interval 10



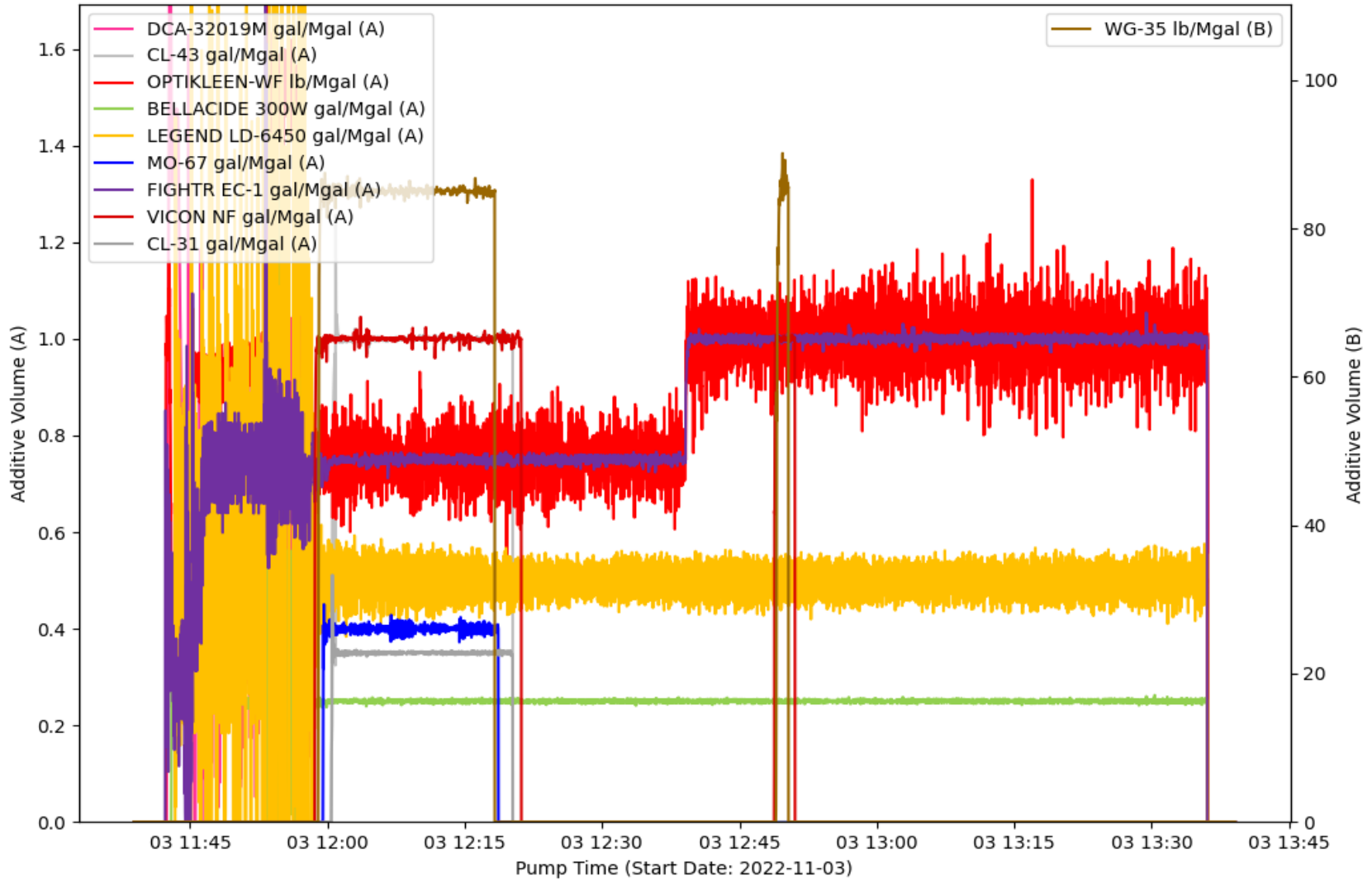
EVENT LOG : TREATMENT INTERVAL 10

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-03T07:35:03	0	2215	0	0	0	0	0
2	Start Pumping	2022-11-03T07:35:24	0.01	2256	0	0	0.07	0.07	0
3	Pump Acid	2022-11-03T07:37:21	9.86	3293	0	0	636.1	636.11	0
4	Ball on Seat	2022-11-03T07:51:48	14.92	3686	0	0	13659	13659	0
5	Break Formation	2022-11-03T07:52:21	15.03	3800	0	0	13998	13998	0
6	Pump Xlink Pill	2022-11-03T07:55:00	83.19	7335	0	0	19552	19552	0
7	Stop Pumping	2022-11-03T09:56:51	8.73	3191	0	0	436092	446696	233635
8	ISIP	2022-11-03T09:56:56	0	3660	0	0	436095	446699	233635
9	Shut In Well	2022-11-03T09:58:55	0	3318	0	0	436095	446699	233635

TREATMENT PLOT : Treatment Interval 11



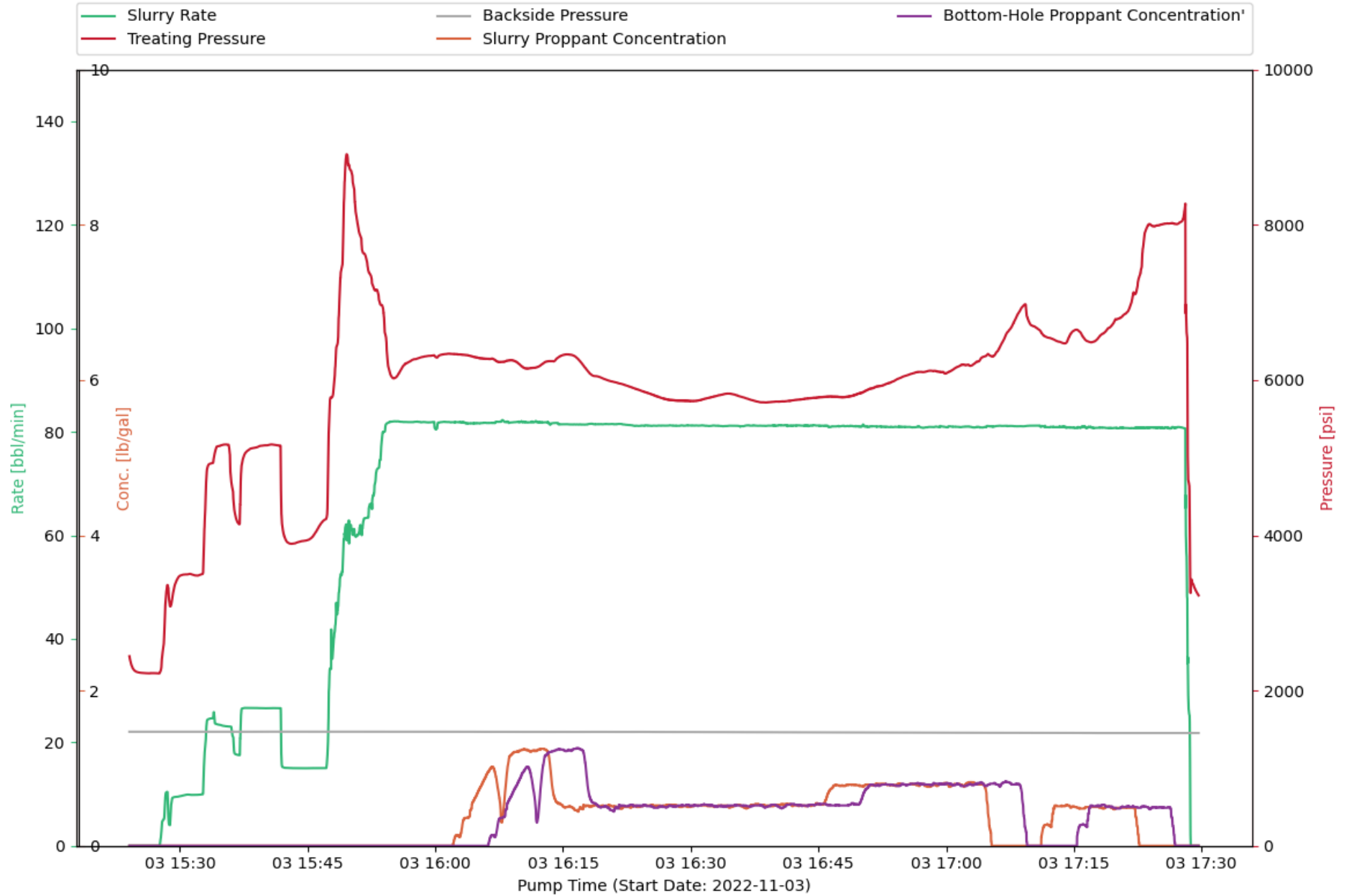
CHEMISTRY PLOT : Treatment Interval 11



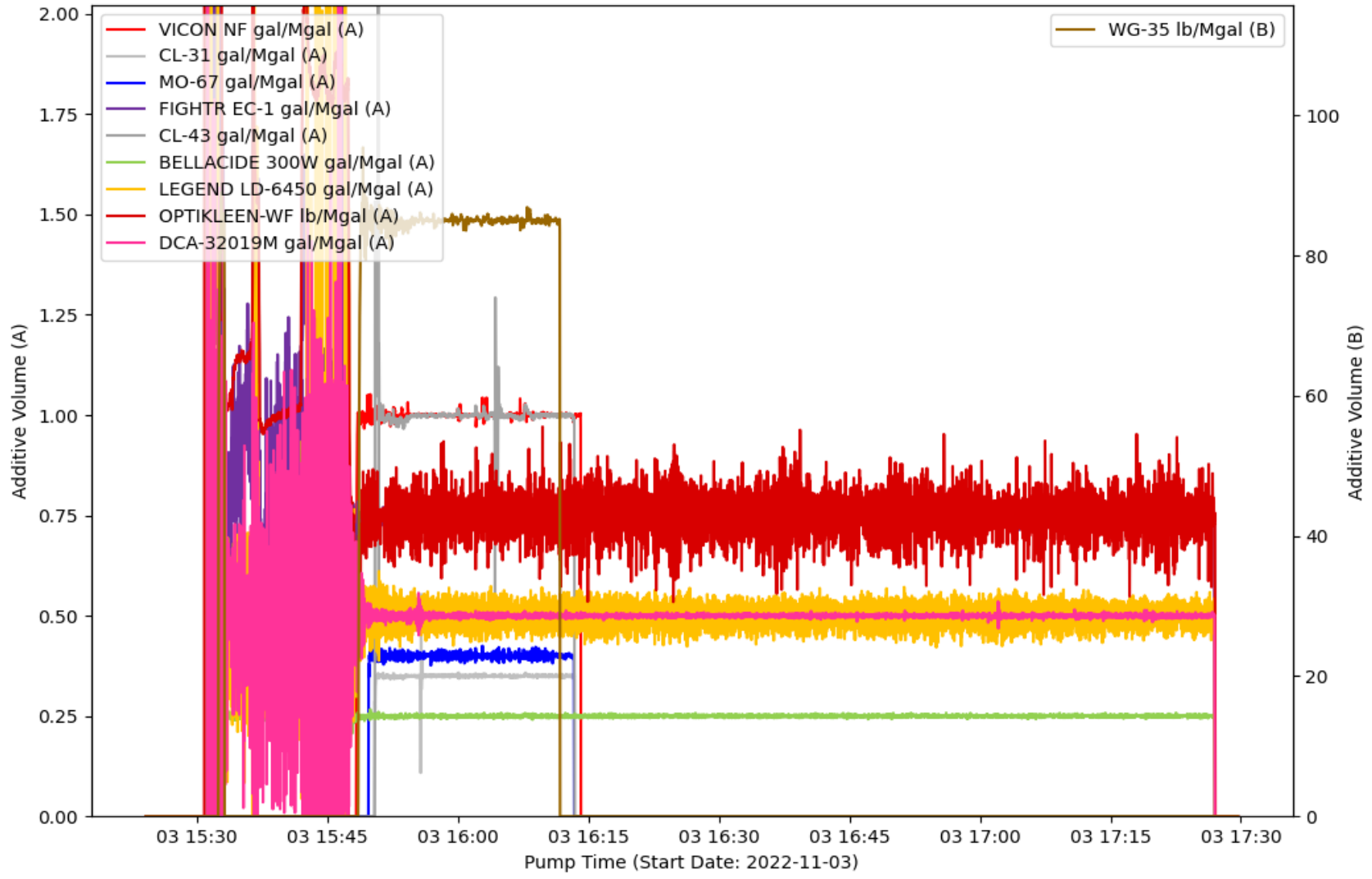
EVENT LOG : TREATMENT INTERVAL 11

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	2022-11-03T11:38:55	0.01	2376	0	0	0.01	0.01	0
2	Start Pumping	2022-11-03T11:39:04	0.01	2348	0	0	0.06	0.06	0
3	Pump Acid	2022-11-03T11:40:47	9.71	3221	0	0	564.11	564.1	0
4	Ball on Seat	2022-11-03T11:55:55	15.18	3626	0	0	13449	13449	0
5	Break Formation	2022-11-03T11:56:06	15.17	3705	0	0	13567	13567	0
6	Pump Xlink Pill	2022-11-03T12:04:07	78.8	5856	0	0	33535	33535	0
7	Stop Pumping	2022-11-03T13:37:41	0	3208	0	0	346539	352603	133584
8	ISIP	2022-11-03T13:37:44	0	3203	0	0	346539	352603	133584
9	Shut In Well	2022-11-03T13:39:04	0	3024	0	0	346539	352603	133584

TREATMENT PLOT : Treatment Interval 12



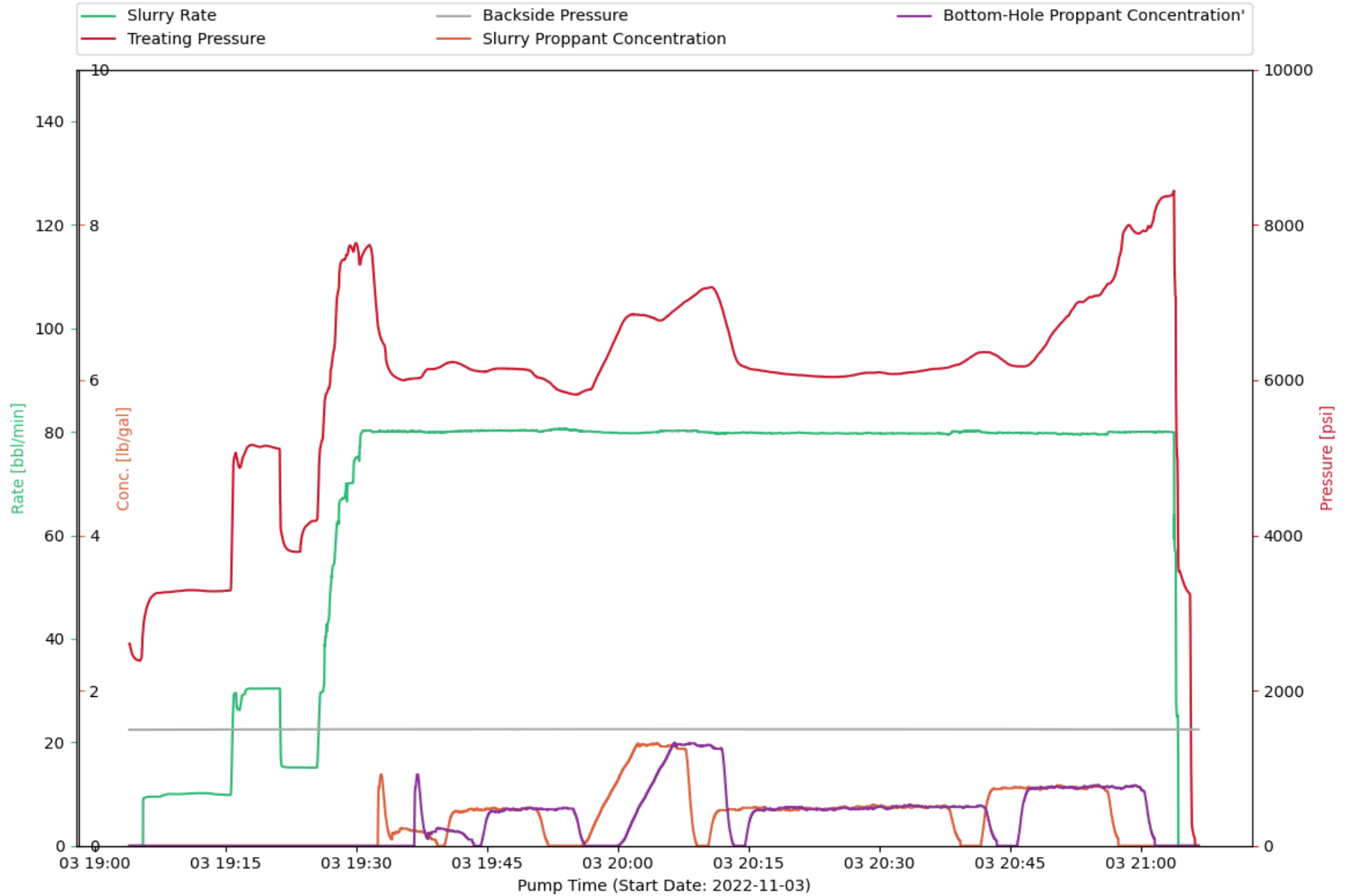
CHEMISTRY PLOT : Treatment Interval 12



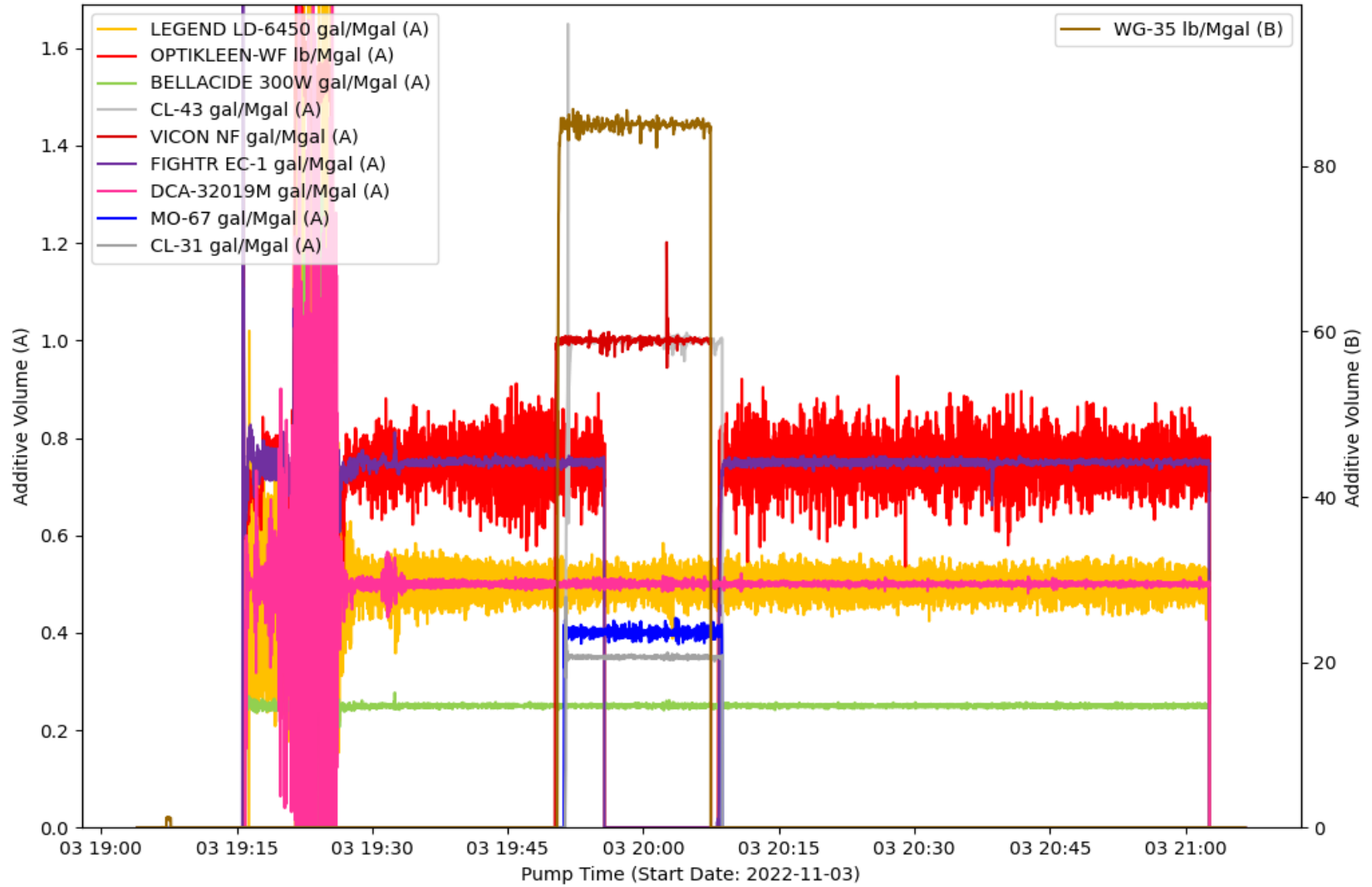
EVENT LOG : TREATMENT INTERVAL 12

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-03T15:24:07	0	2418	0	0	0	0	0
2	Start Pumping	2022-11-03T15:27:34	0.01	2221	0	0	1.14	1.14	0
3	Pump Acid	2022-11-03T15:29:57	9.57	3476	0	0	715.73	715.71	0
4	Ball on Seat	2022-11-03T15:45:25	14.99	3964	0	0	13474	13474	0
5	Break Formation	2022-11-03T15:46:44	15	4174	0	0	14301	14301	0
6	Stop Pumping	2022-11-03T17:28:42	2.17	3257	0	0	346137	353173	155016
7	ISIP	2022-11-03T17:28:45	0	3383	0	0	346138	353174	155016
8	Shut In Well	2022-11-03T17:29:37	0	3232	0	0	346138	353174	155016

TREATMENT PLOT : Treatment Interval 13



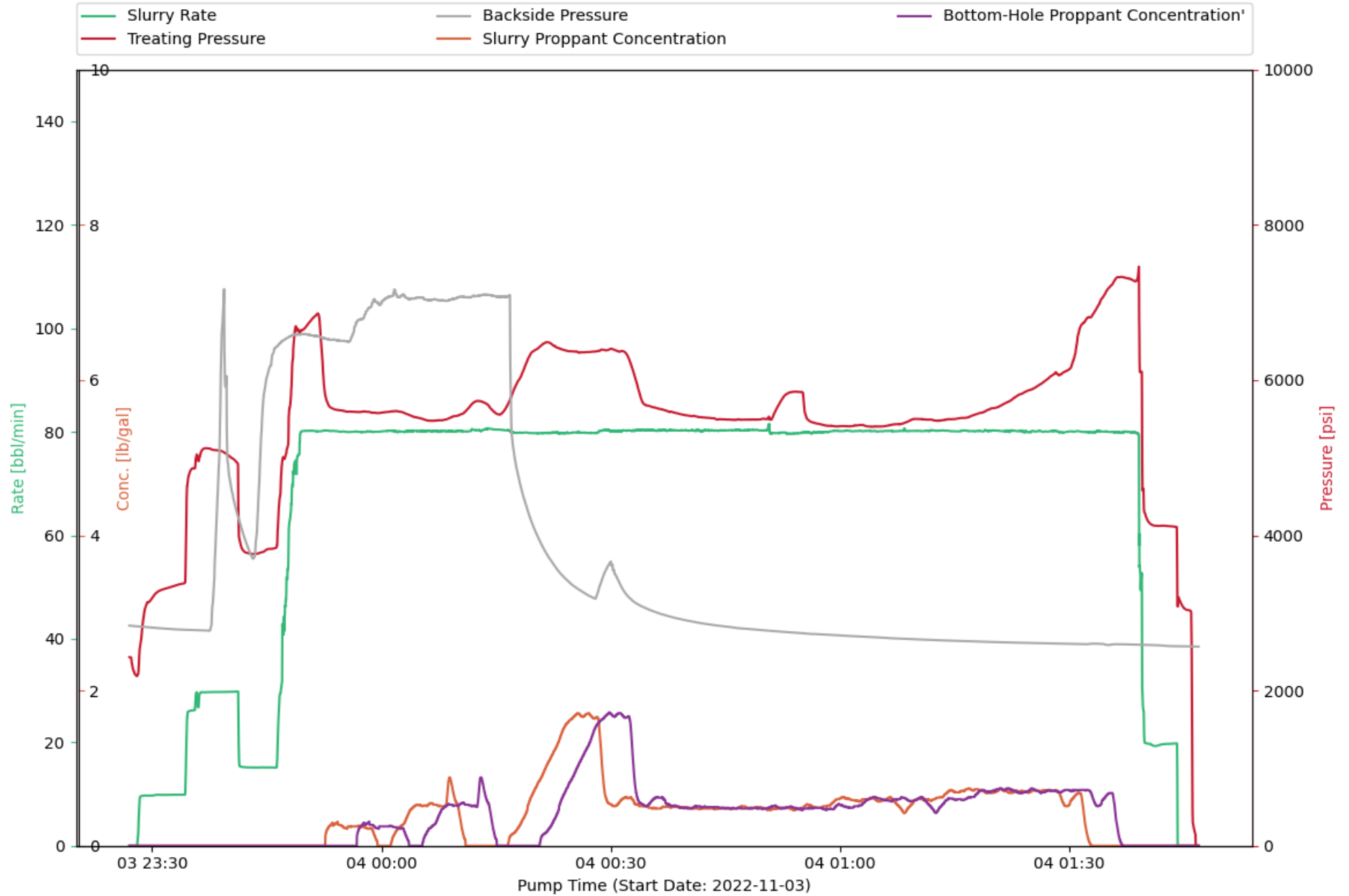
CHEMISTRY PLOT : Treatment Interval 13



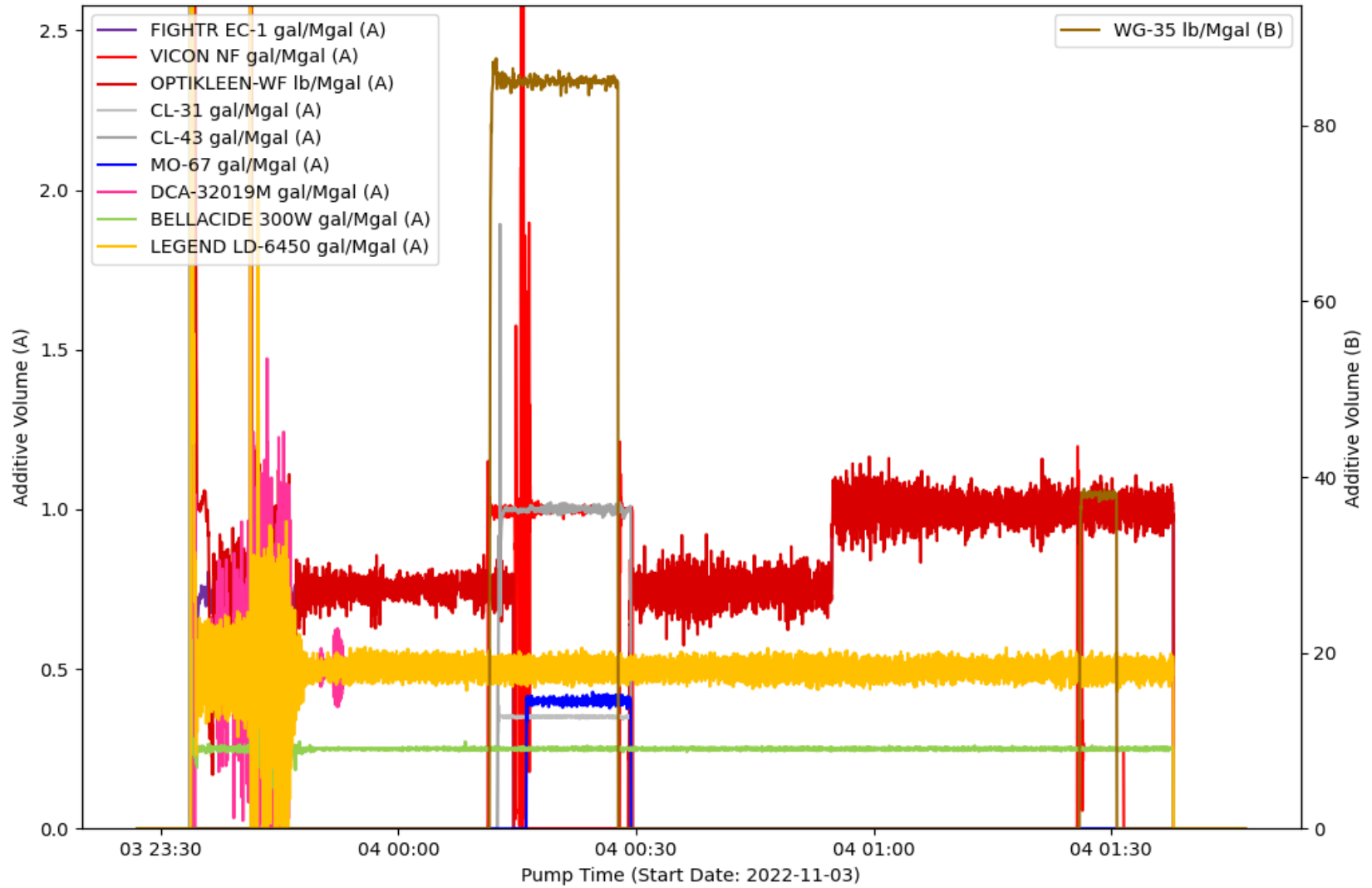
EVENT LOG : TREATMENT INTERVAL 13

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	2022-11-03T19:05:00	0	2390	0	0	0	0	0
2	Start Pumping	2022-11-03T19:05:32	0	2732	0	0	0	0	0
3	Pump Acid	2022-11-03T19:07:50	9.74	3264	0	0	909.77	909.71	0
4	Ball on Seat	2022-11-03T19:23:34	15.16	3789	0	0	12604	12604	0
5	Break Formation	2022-11-03T19:25:10	15.1	4184	0	0	13621	13621	0
6	Pump Xlink Pill	2022-11-03T19:52:09	80.36	5973	0	0.47	97617	98621	22108
7	Stop Pumping	2022-11-03T21:04:15	16.72	3799	0	0	333271	339624	139915
8	ISIP	2022-11-03T21:04:19	0	3532	0	0	333271	339624	139915
9	Shut In Well	2022-11-03T21:05:35	0	3242	0	0	333271	339624	139915

TREATMENT PLOT : Treatment Interval 14



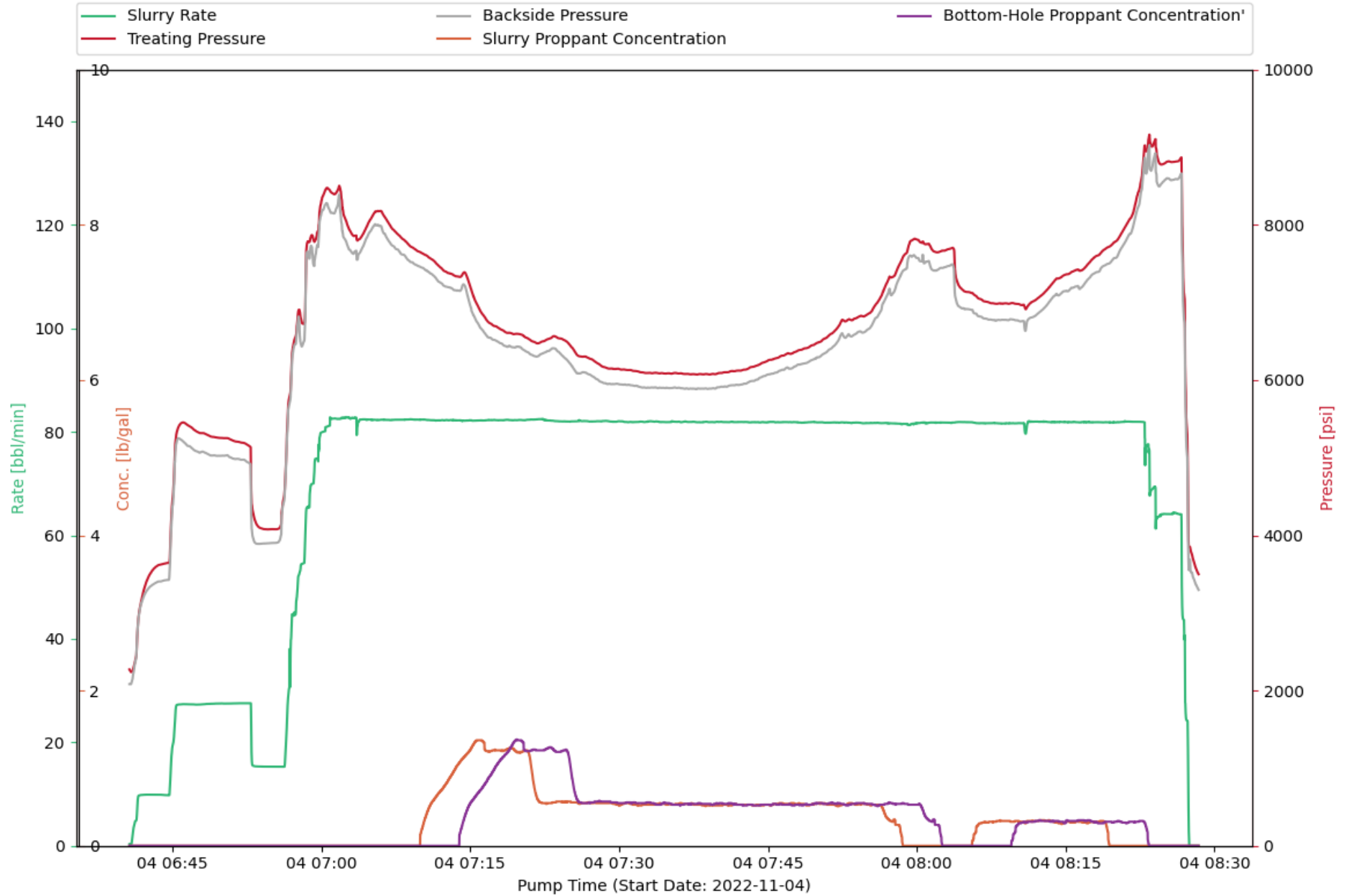
CHEMISTRY PLOT : Treatment Interval 14



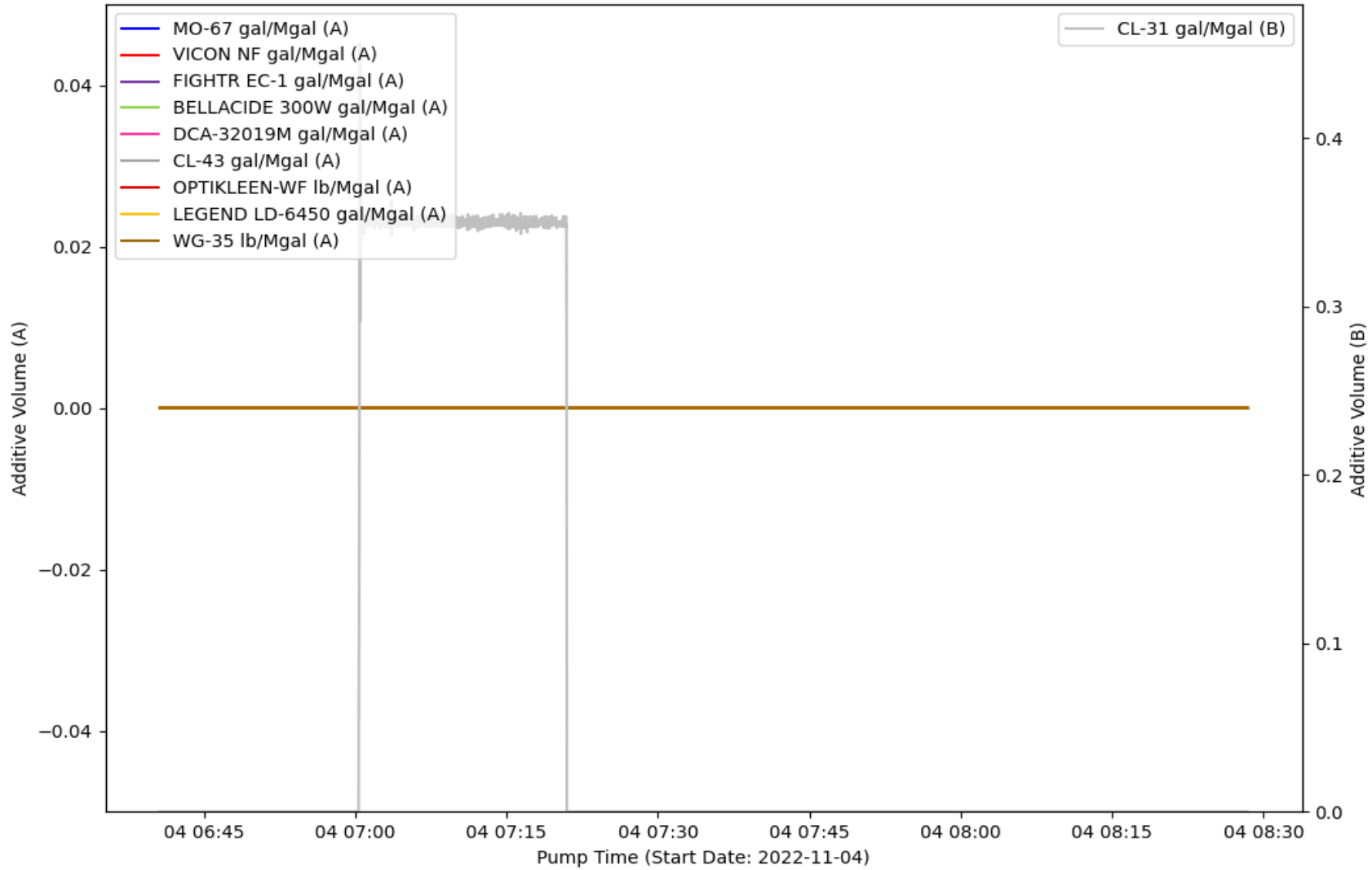
EVENT LOG : TREATMENT INTERVAL 14

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	2022-11-03T23:27:39	0	2232	0	0	0	0	0
2	Start Pumping	2022-11-03T23:28:02	0	2187	0	0	0	0	0
3	Pump Acid	2022-11-03T23:29:32	9.68	3138	0	0	535.74	535.75	0
4	Ball on Seat	2022-11-03T23:43:08	15.15	3760	0	0	12061	12061	0
5	Break Formation	2022-11-03T23:46:00	15.12	3833	0	0	13891	13891	0
6	Pump Xlink Pill	2022-11-04T00:13:24	80.43	5711	0	0.74	101069	101968	19804
7	#15 Gel Pill	2022-11-04T01:29:04	79.9	6087	0.58	0.7	348571	356560	176031
8	ISIP	2022-11-04T01:44:09	6.18	3090	0	0	386805	395063	181967
9	Stop Pumping	2022-11-04T01:44:11	0	3082	0	0	386805	395063	181967
10	Shut In Well	2022-11-04T01:45:54	0	3019	0	0	386805	395063	181967

TREATMENT PLOT : Treatment Interval 15



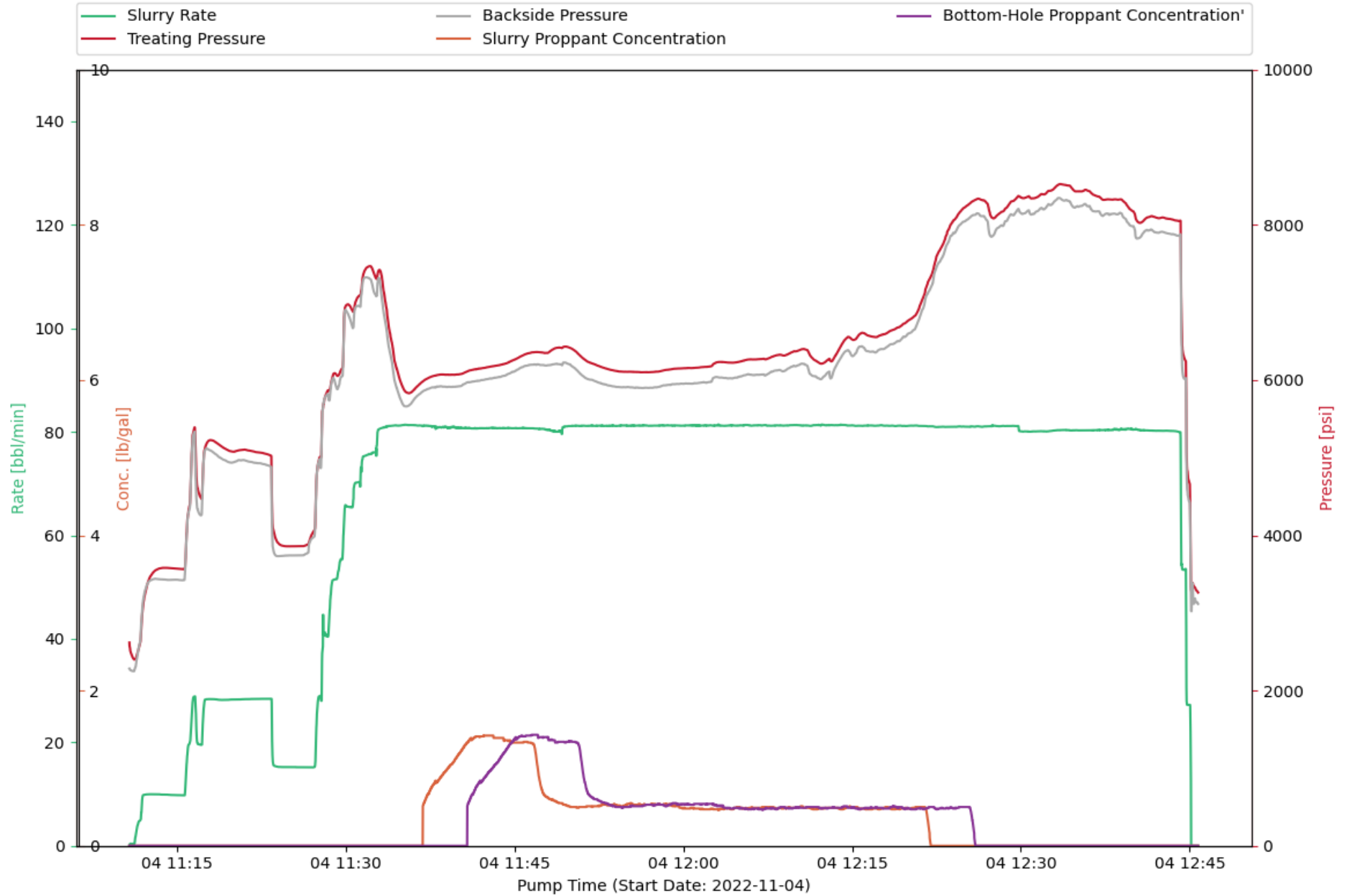
CHEMISTRY PLOT : Treatment Interval 15



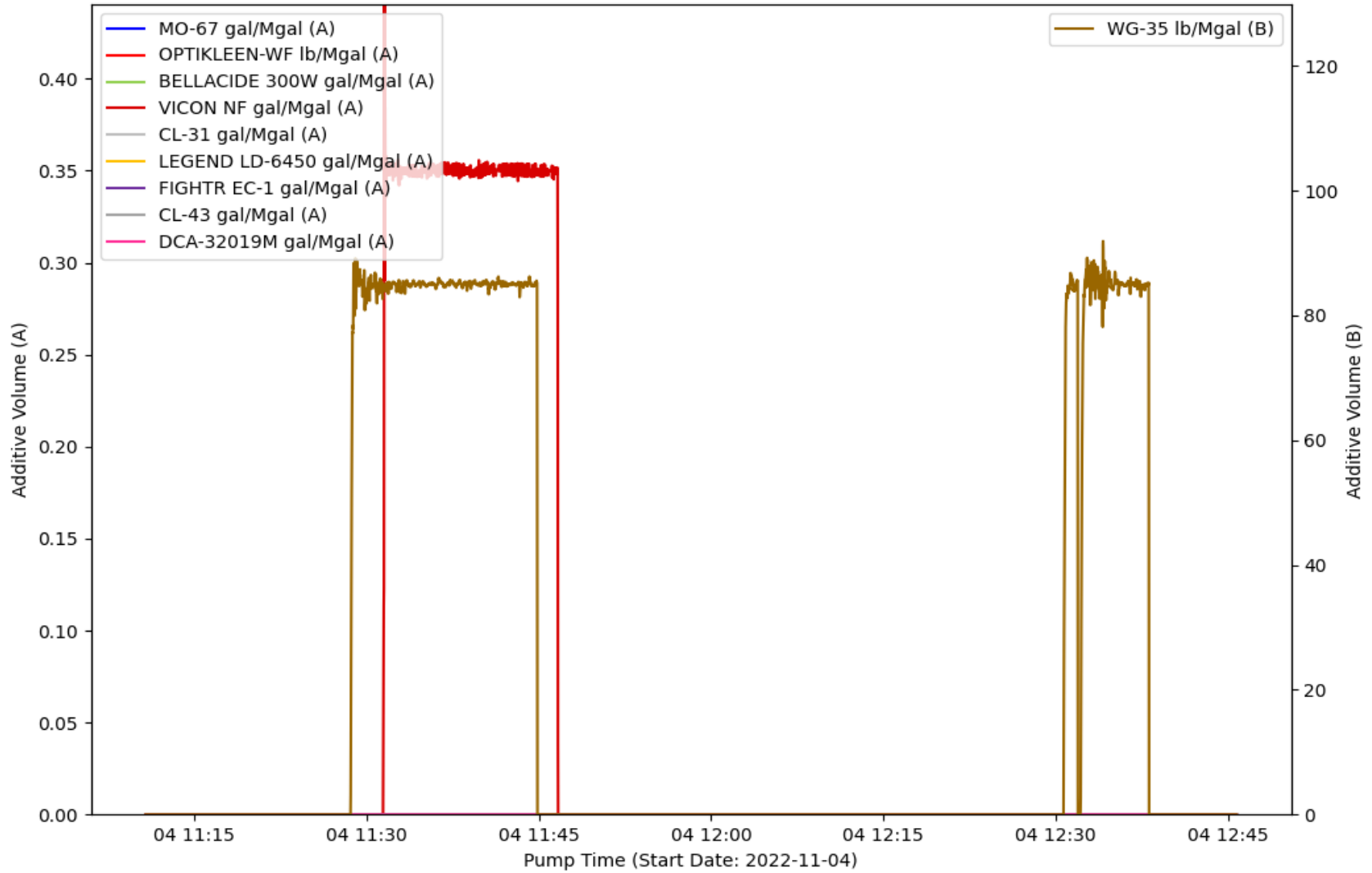
EVENT LOG : TREATMENT INTERVAL 15

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	2022-11-04T06:40:42	0.33	2264	0	0	0.24	0.24	0
2	Start Pumping	2022-11-04T06:40:50	0.31	2238	0	0	2.07	2.07	0
3	Pump Acid	2022-11-04T06:43:05	9.9	3564	0	0	769.51	769.51	0
4	Ball on Seat	2022-11-04T06:55:55	15.3	4127	0	0	12621	12621	0
5	Break Formation	2022-11-04T06:56:06	15.29	4394	0	0	12740	12740	0
6	Stop Pumping	2022-11-04T08:27:27	0	3848	0	0	313051	318442	118812
7	ISIP	2022-11-04T08:27:30	0	3854	0	0	313051	318442	118812
8	Shut In Well	2022-11-04T08:28:22	0	3507	0	0	313051	318442	118812

TREATMENT PLOT : Treatment Interval 16



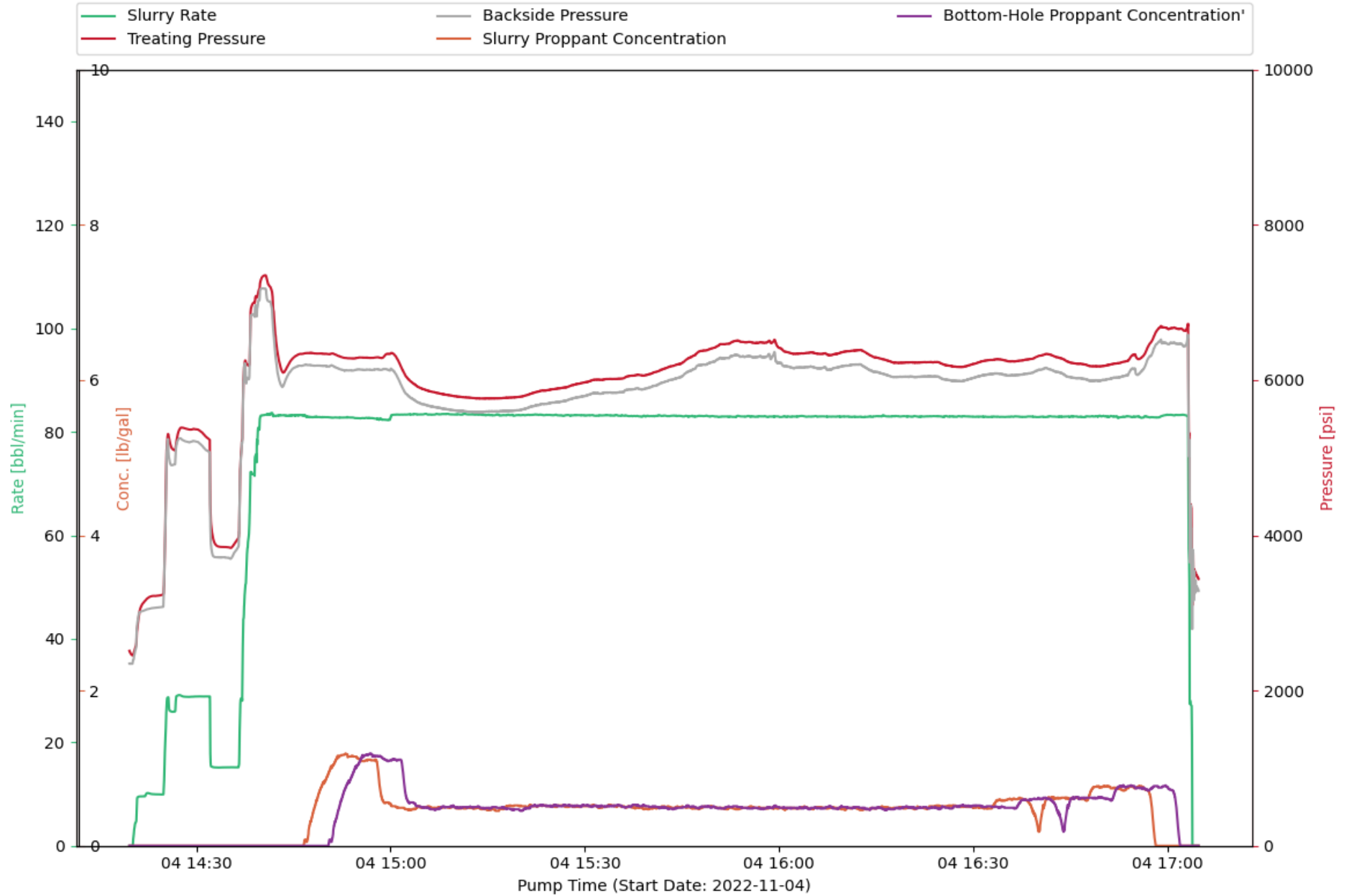
CHEMISTRY PLOT : Treatment Interval 16



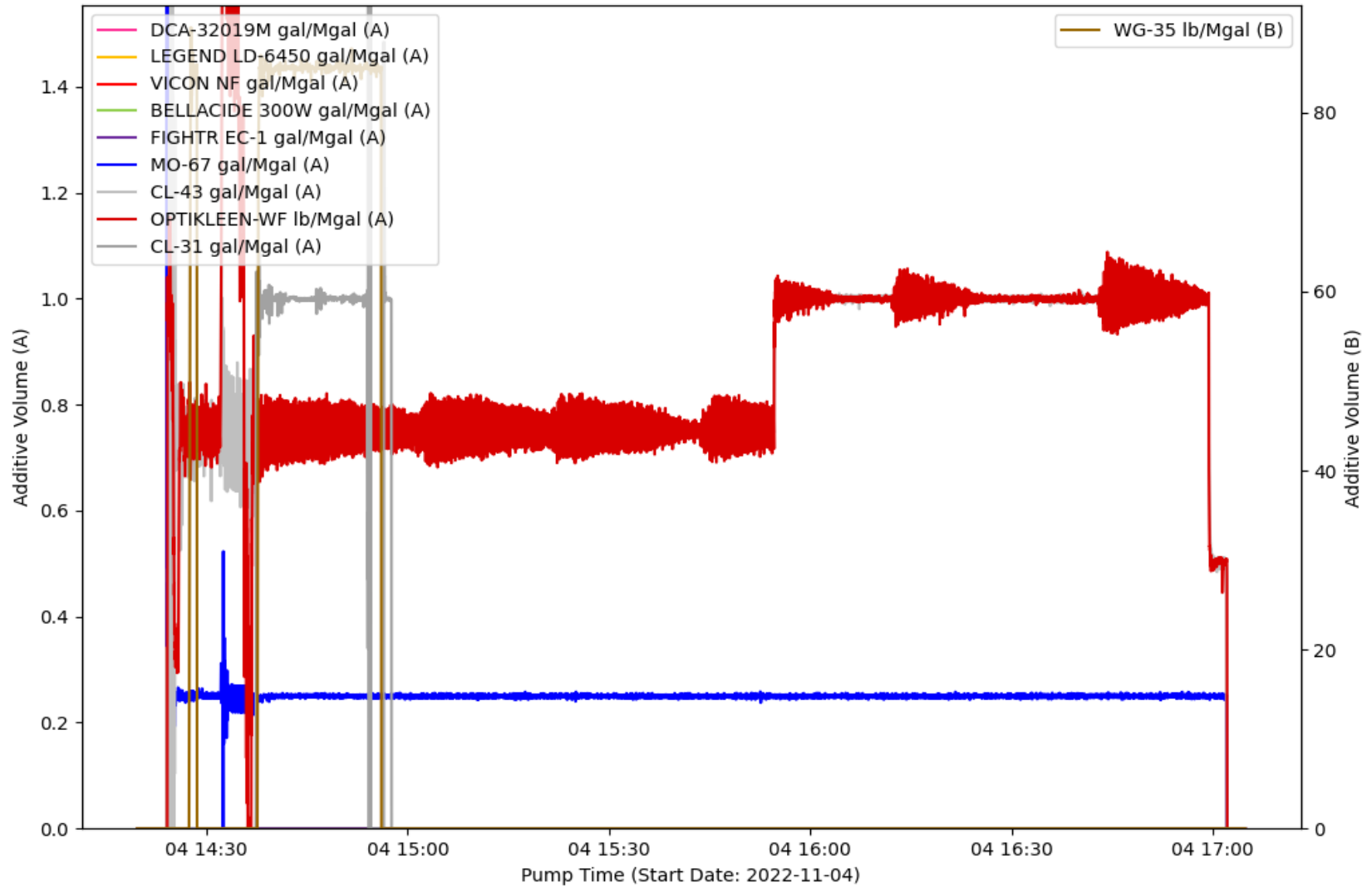
EVENT LOG : TREATMENT INTERVAL 16

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-04T11:10:48	0	2561	0	0	0	0	0
2	Start Pumping	2022-11-04T11:11:12	0.37	2399	0	0	6.26	6.26	0
3	Pump Acid	2022-11-04T11:19:59	28.27	5077	0	0	6327	6327	0
4	Pump Xlink Pill	2022-11-04T11:34:38	81.22	6095	0	0	32682	32682	0
5	Stop Pumping	2022-11-04T12:45:08	0	3295	0	0	266263	270708	97891
6	ISIP	2022-11-04T12:45:10	0	3279	0	0	266263	270708	97891
7	Shut In Well	2022-11-04T12:45:43	0	3270	0	0	266263	270708	97891

TREATMENT PLOT : Treatment Interval 17



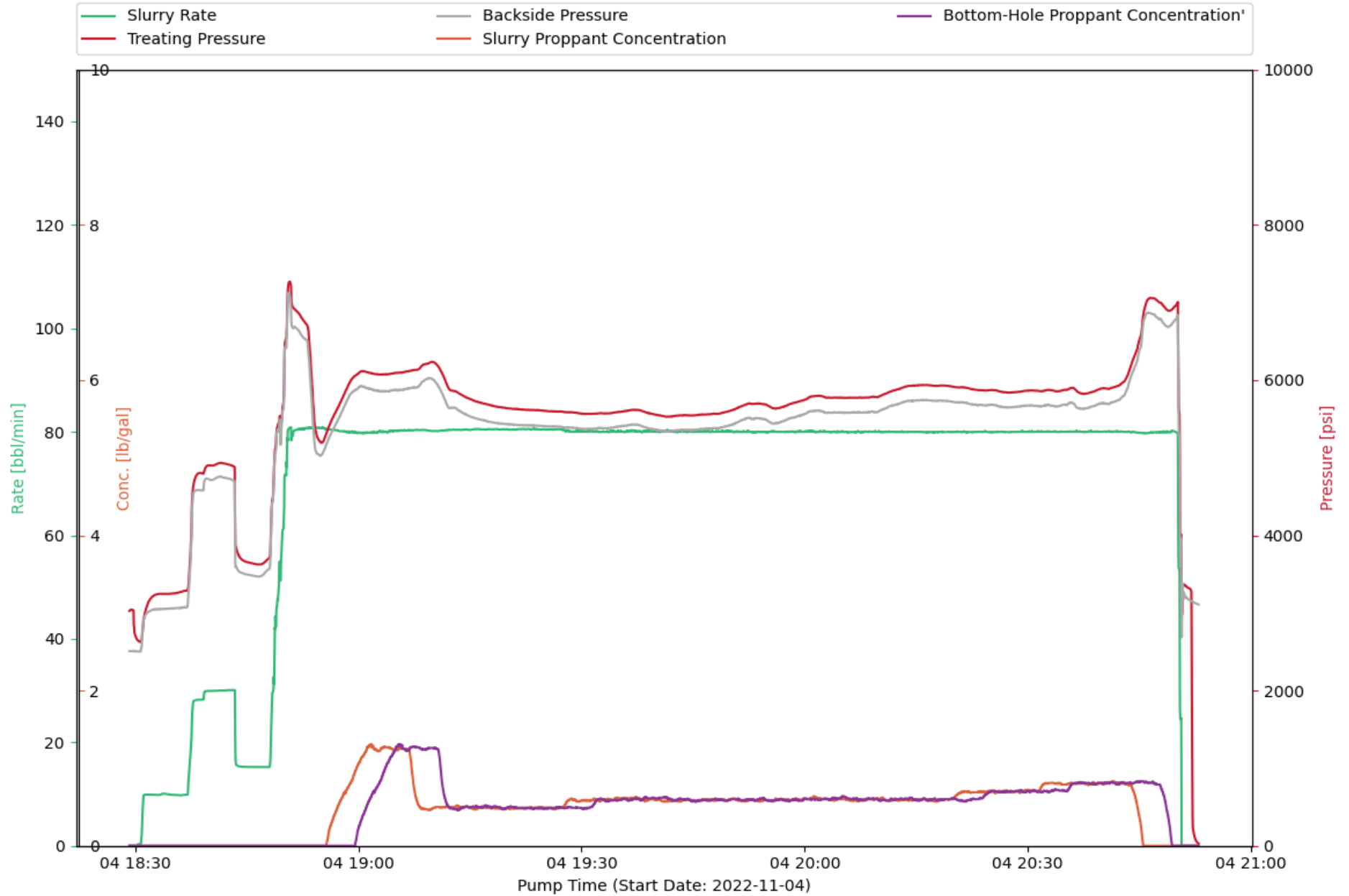
CHEMISTRY PLOT : Treatment Interval 17



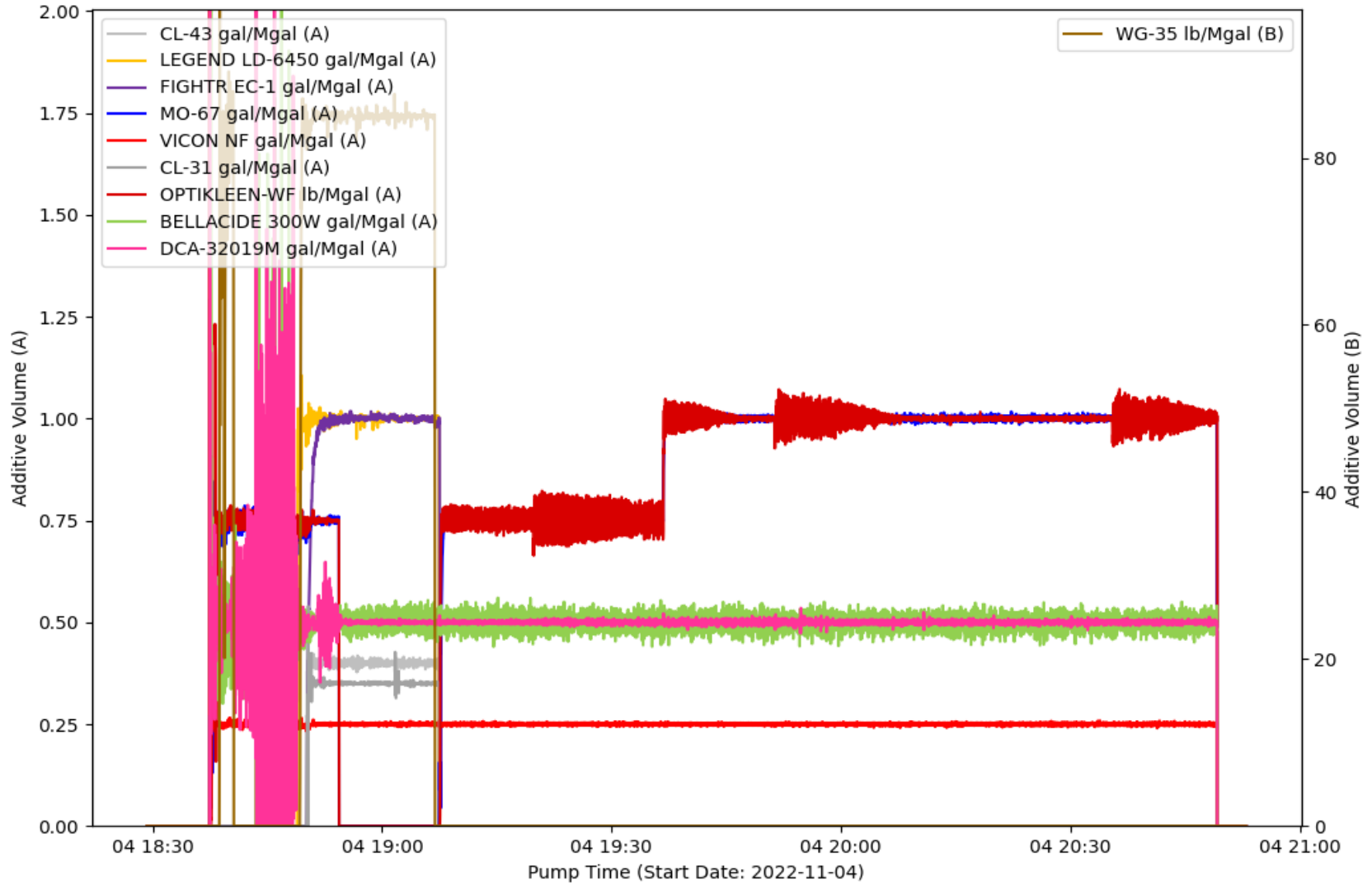
EVENT LOG : TREATMENT INTERVAL 17

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	2022-11-04T14:19:43	0	2503	0	0	0	0	0
2	Start Pumping	2022-11-04T14:20:09	0	2452	0	0	0	0	0
3	Pump Acid	2022-11-04T14:22:04	9.57	3153	0	0	593.48	593.48	0
4	Ball on Seat	2022-11-04T14:36:32	15.24	3973	0	0	13005	13005	0
5	Break Formation	2022-11-04T14:36:47	26.77	4842	0	0	13206	13205	0
6	Stop Pumping	2022-11-04T17:03:46	10.64	3104	0	0	510599	521896	248881
7	ISIP	2022-11-04T17:03:50	0	3467	0	0	510603	521900	248881
8	Shut In Well	2022-11-04T17:04:43	0	3447	0	0	510603	521900	248881

TREATMENT PLOT : Treatment Interval 18



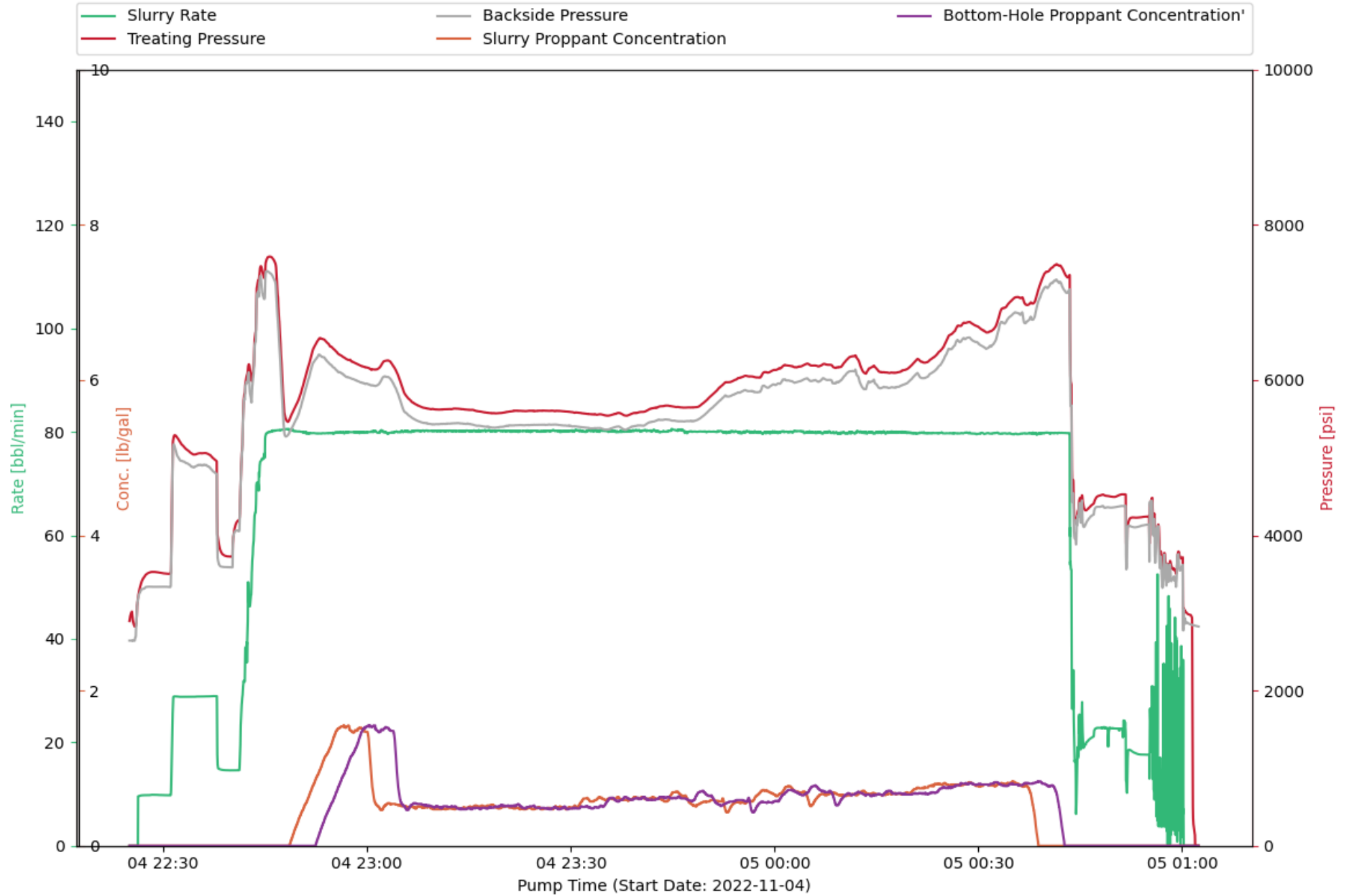
CHEMISTRY PLOT : Treatment Interval 18



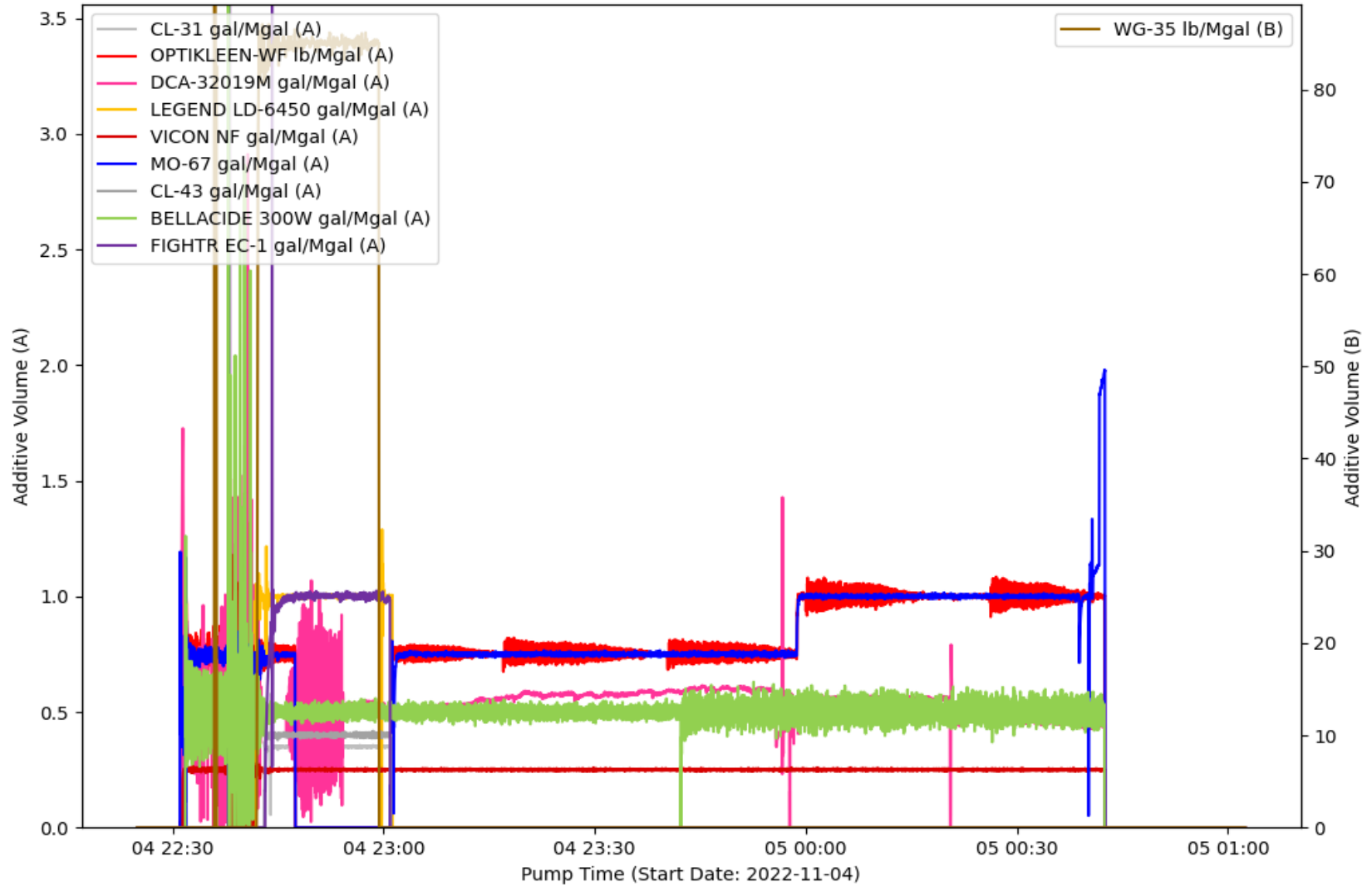
EVENT LOG : TREATMENT INTERVAL 18

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	2022-11-04T18:30:14	0	2661	0	0	0	0	0
2	Start Pumping	2022-11-04T18:30:21	0	2647	0	0	0	0	0
3	Start Avg Trt 18	2022-11-04T18:30:38	0.3	2628	0	0	0.21	0.21	0
4	Pump Acid	2022-11-04T18:33:23	9.85	3247	0	0	1016	1016	0
5	Ball on Seat	2022-11-04T18:47:10	15.24	3635	0	0	12517	12517	0
6	Break Formation	2022-11-04T18:47:39	15.22	3677	0	0	12818	12818	0
7	Pump Xlink Pill	2022-11-04T18:51:42	80.41	6888	0	0	22142	22142	0
8	Stop Pumping	2022-11-04T20:50:38	21.39	3611	0	0	411052	421610	232631
9	ISIP	2022-11-04T20:50:44	0	3117	0	0	411052	421610	232631
10	Shut In Well	2022-11-04T20:51:57	0	3286	0	0	411052	421610	232631

TREATMENT PLOT : Treatment Interval 19



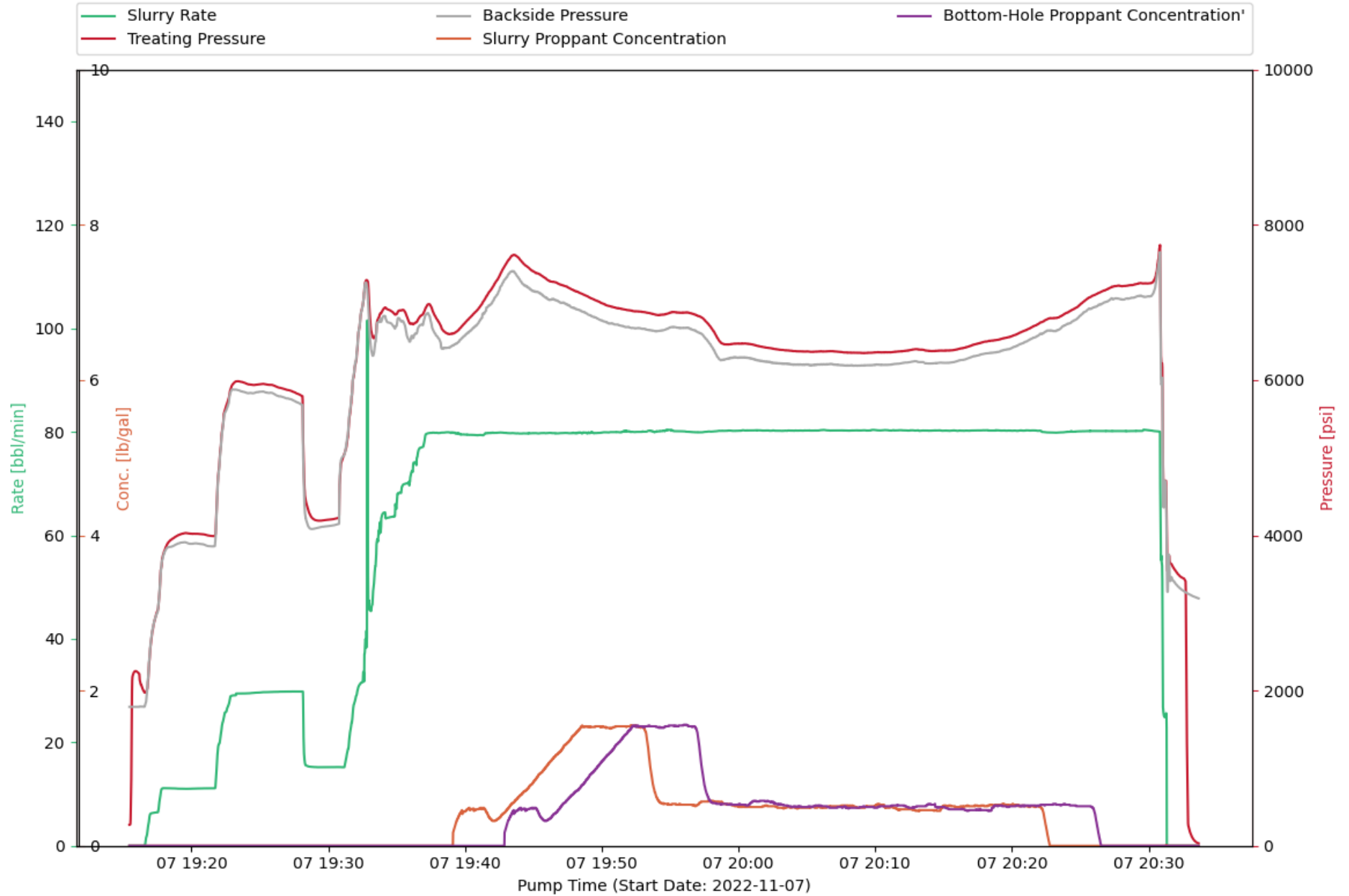
CHEMISTRY PLOT : Treatment Interval 19



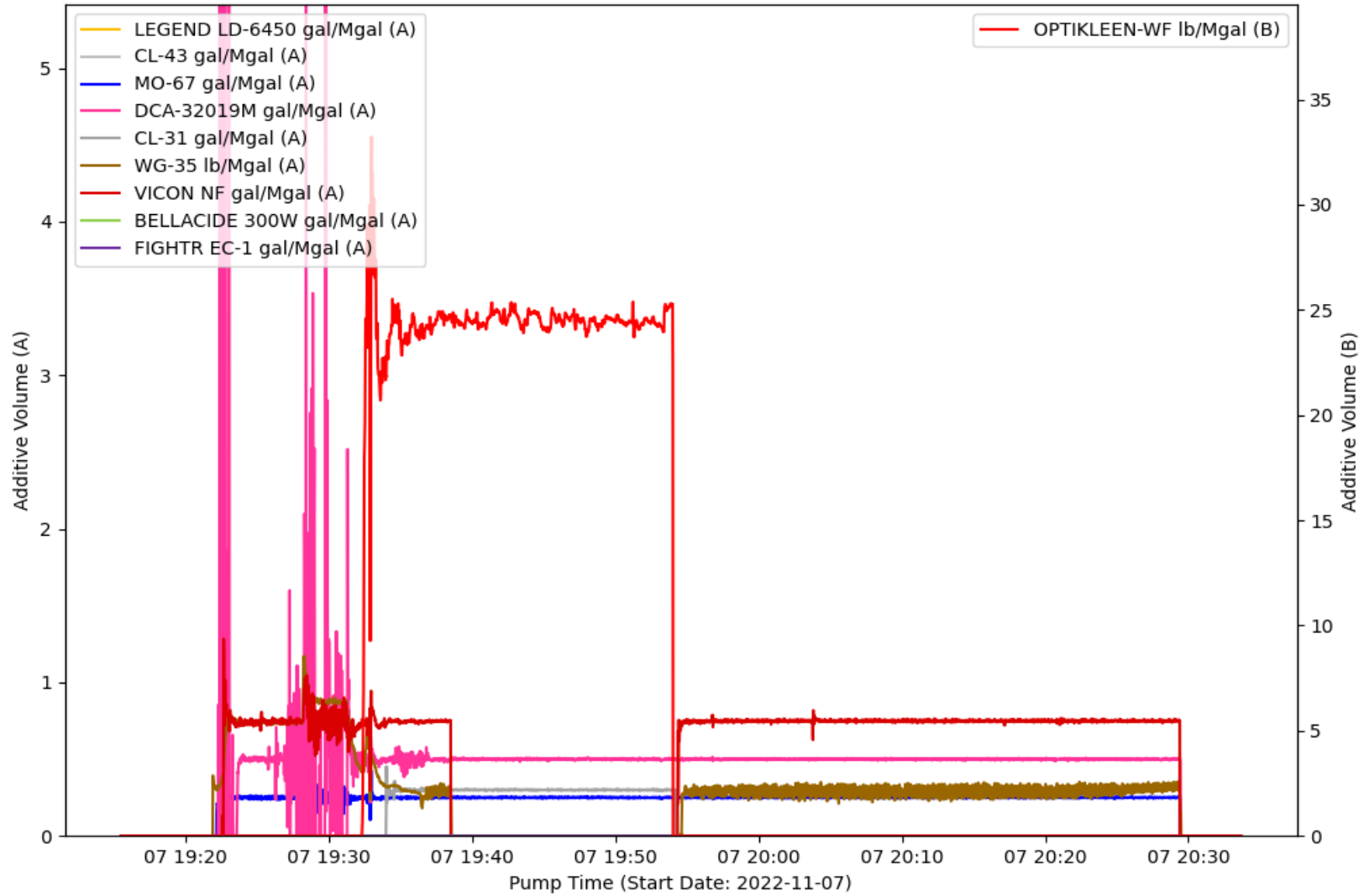
EVENT LOG : TREATMENT INTERVAL 19

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	2022-11-04T22:26:00	0	2869	0	0	0	0	0
2	Start Pumping	2022-11-04T22:26:13	0	3167	0	0	0	0	0
3	Pump Acid	2022-11-04T22:28:22	9.86	3529	0	0	873.08	873.08	0
4	Break Formation	2022-11-04T22:40:08	14.61	3726	0	0	11498	11498	0
5	Ball on Seat	2022-11-04T22:40:50	14.58	4175	0	0	11929	11930	0
6	Pump Xlink Pill	2022-11-04T22:44:00	68.8	7285	0	0	17616	17616	0
7	Stop Pumping	2022-11-05T01:00:13	7.05	3042	0	0	421343	432098	236947
8	Shut In Well	2022-11-05T01:00:15	0	3056	0	0	421343	432098	236947
9	ISIP	2022-11-05T01:01:26	0	2947	0	0	421343	432098	236947

TREATMENT PLOT : Treatment Interval 20



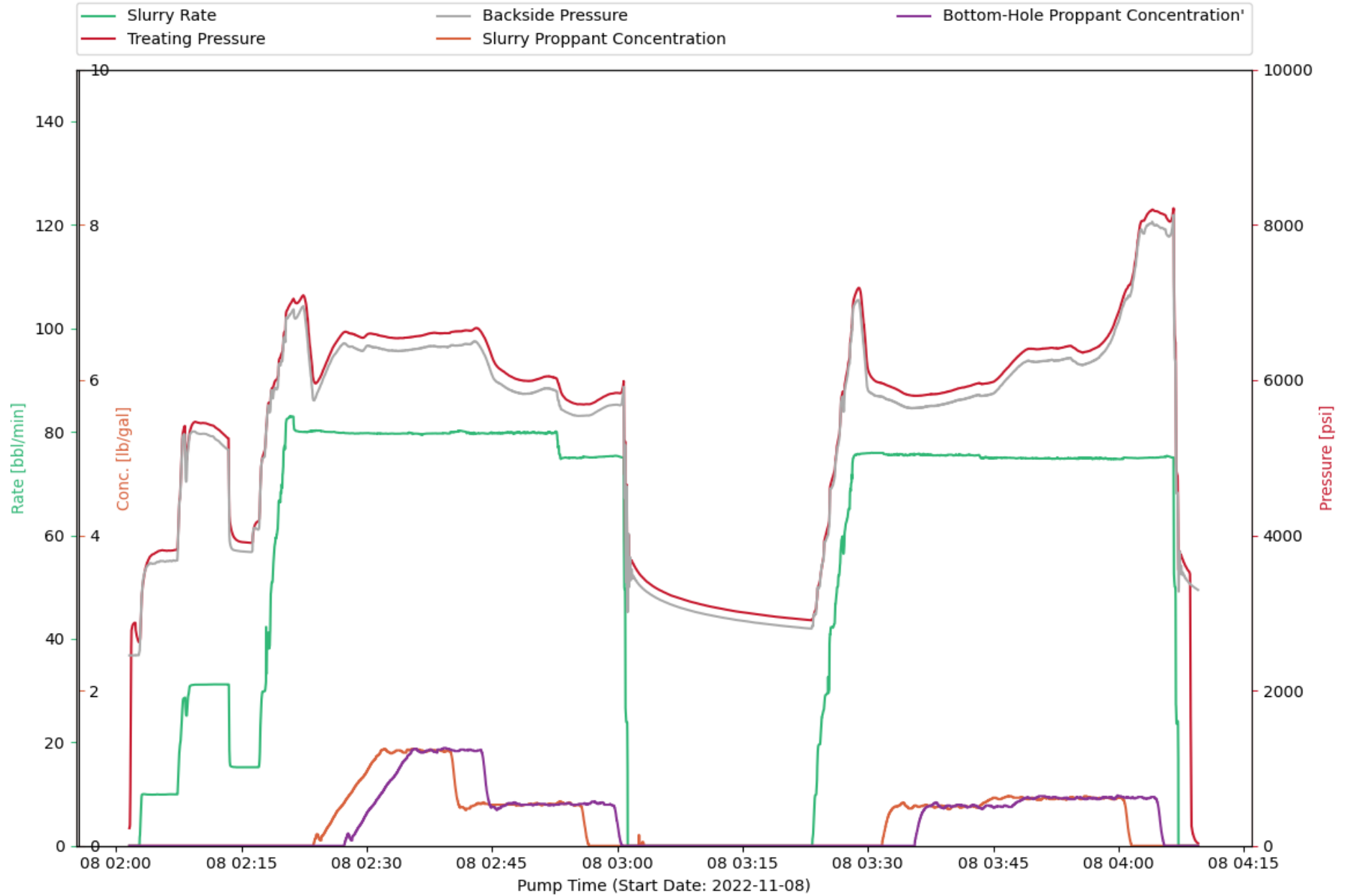
CHEMISTRY PLOT : Treatment Interval 20



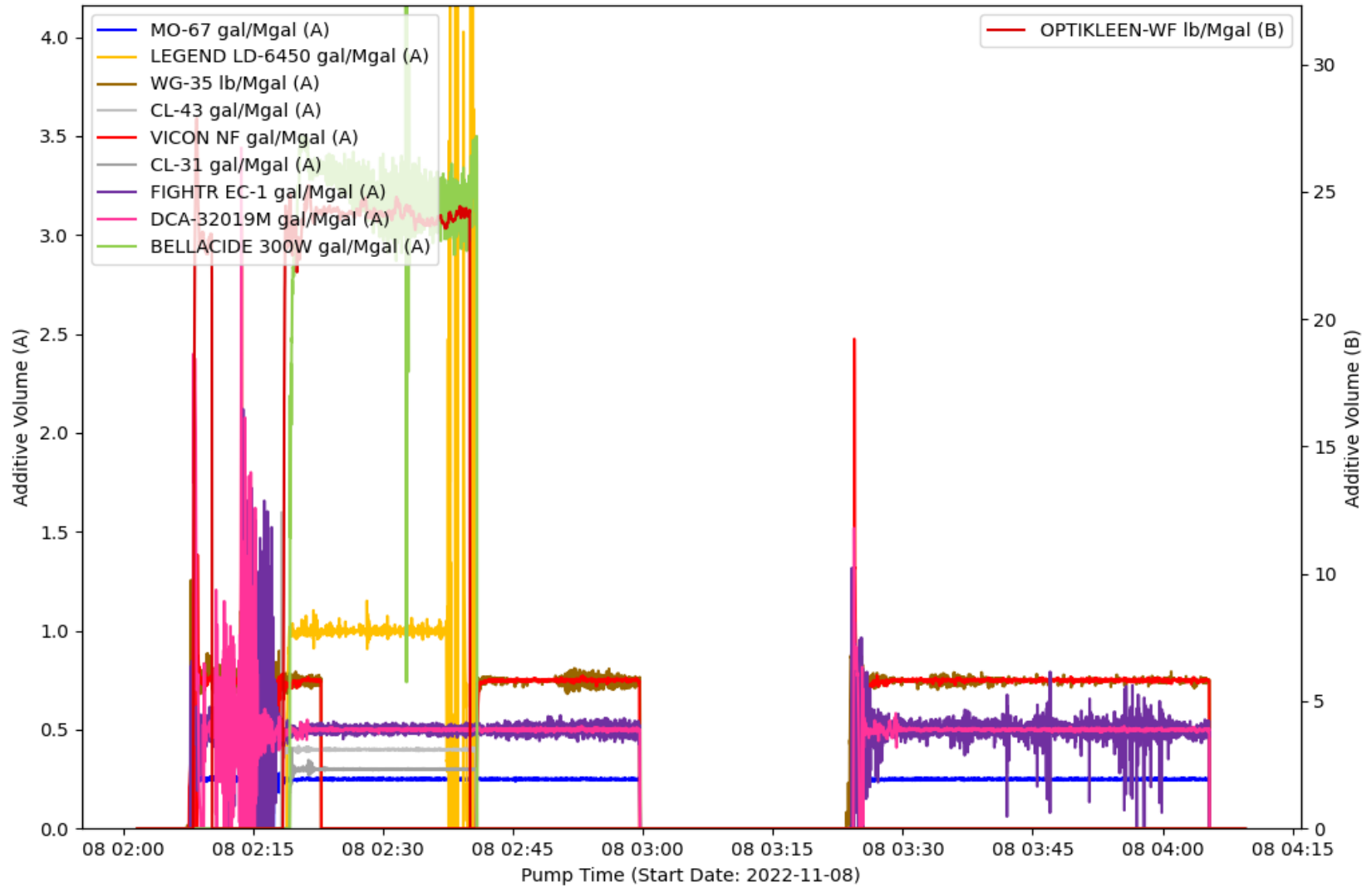
EVENT LOG : TREATMENT INTERVAL 20

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	2022-11-07T19:16:28	0	2007	0	0	0	0	0
2	Start Pumping	2022-11-07T19:16:34	0	1975	0	0	0	0	0
3	Pump Acid	2022-11-07T19:19:59	11.04	4021	0	0	0	0	0
4	Start Avg Trt 20	2022-11-07T19:26:51	29.79	5881	0	0	21.1	21.1	0
5	Ball on Seat	2022-11-07T19:30:31	15.21	4214	0	0	3199	3199	0
6	Break Formation	2022-11-07T19:30:39	15.22	4219	0	0	3285	3285	0
7	Pump Xlink Pill	2022-11-07T19:35:00	65.74	6847	0	0	10984	10984	0
8	Stop Pumping	2022-11-07T20:31:20	0	3974	0	0	194500	198831	95477
9	ISIP	2022-11-07T20:31:26	0	3629	0	0	194500	198831	95477
10	Shut In Well	2022-11-07T20:32:39	0	3423	0	0	194500	198831	95477

TREATMENT PLOT : Treatment Interval 21



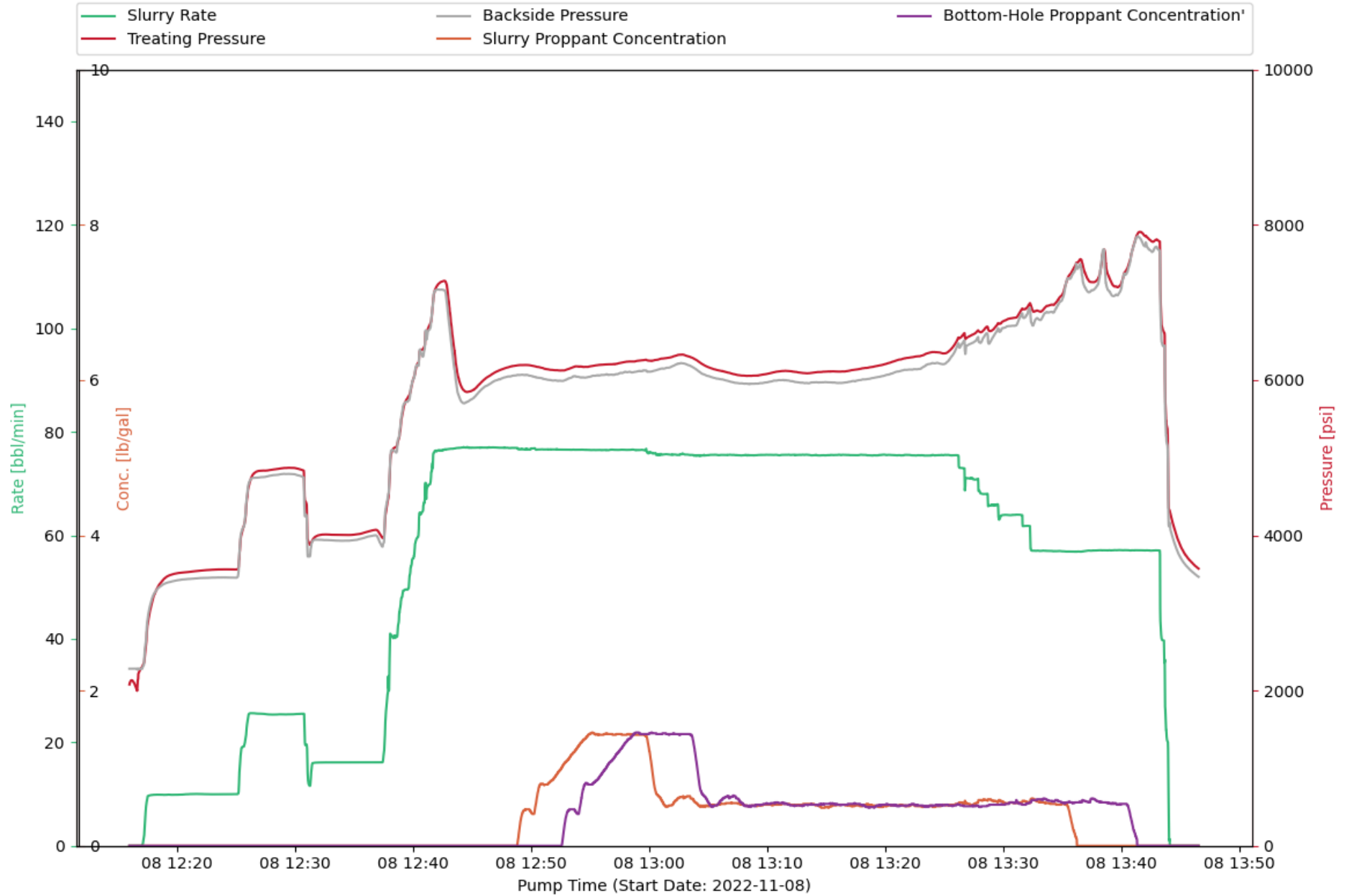
CHEMISTRY PLOT : Treatment Interval 21



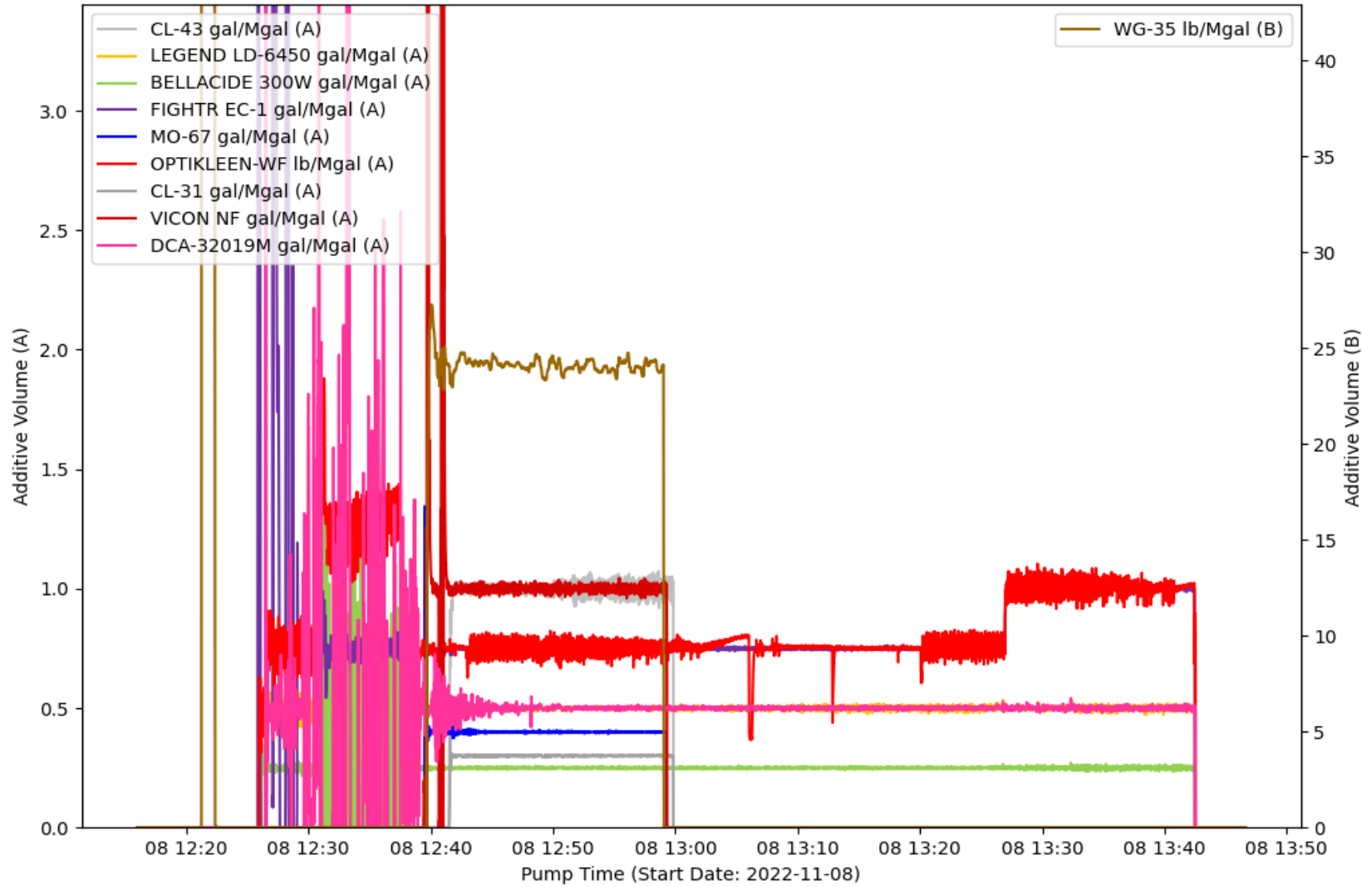
EVENT LOG : TREATMENT INTERVAL 21

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	2022-11-08T02:02:36	0	2655	0	0	0	0	0
2	Start Avg Trt 21	2022-11-08T02:02:37	0	2650	0	0	0	0	0
3	Start Pumping	2022-11-08T02:02:47	0	2628	0	0	0	0	0
4	Pump Acid	2022-11-08T02:04:52	9.96	3782	0	0	810.73	810.74	0
5	Ball on Seat	2022-11-08T02:16:18	15.19	3908	0	0	11291	11291	0
6	Break Formation	2022-11-08T02:16:47	15.19	4163	0	0	11602	11602	0
7	Pump Xlink Pill	2022-11-08T02:19:44	68.47	6319	0	0	16725	16725	0
8	Water transfer out of water	2022-11-08T02:56:36	75.08	5690	0.01	0.54	136042	139530	76856
9	Stop Pumping	2022-11-08T03:01:14	14.46	3279	0	0	149913	153402	76856
10	Start Pumping	2022-11-08T03:23:19	0	2918	0	0	149913	153402	76856
11	Stop Pumping	2022-11-08T04:07:09	16.77	3857	0	0	278012	283798	127484
12	ISIP	2022-11-08T04:07:16	0	3781	0	0	278012	283798	127484
13	Shut In Well	2022-11-08T04:08:31	0	3513	0	0	278012	283798	127484

TREATMENT PLOT : Treatment Interval 22



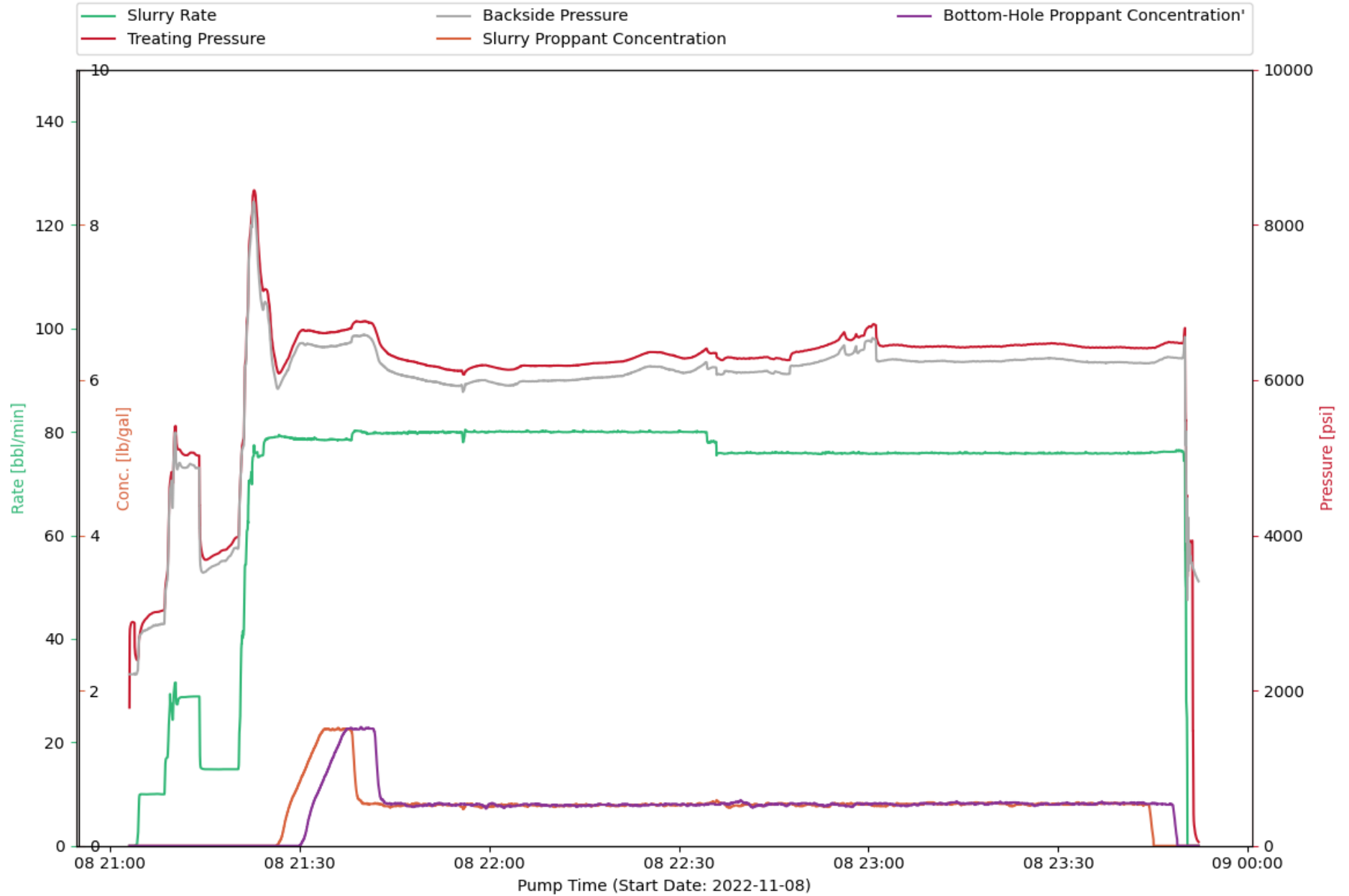
CHEMISTRY PLOT : Treatment Interval 22



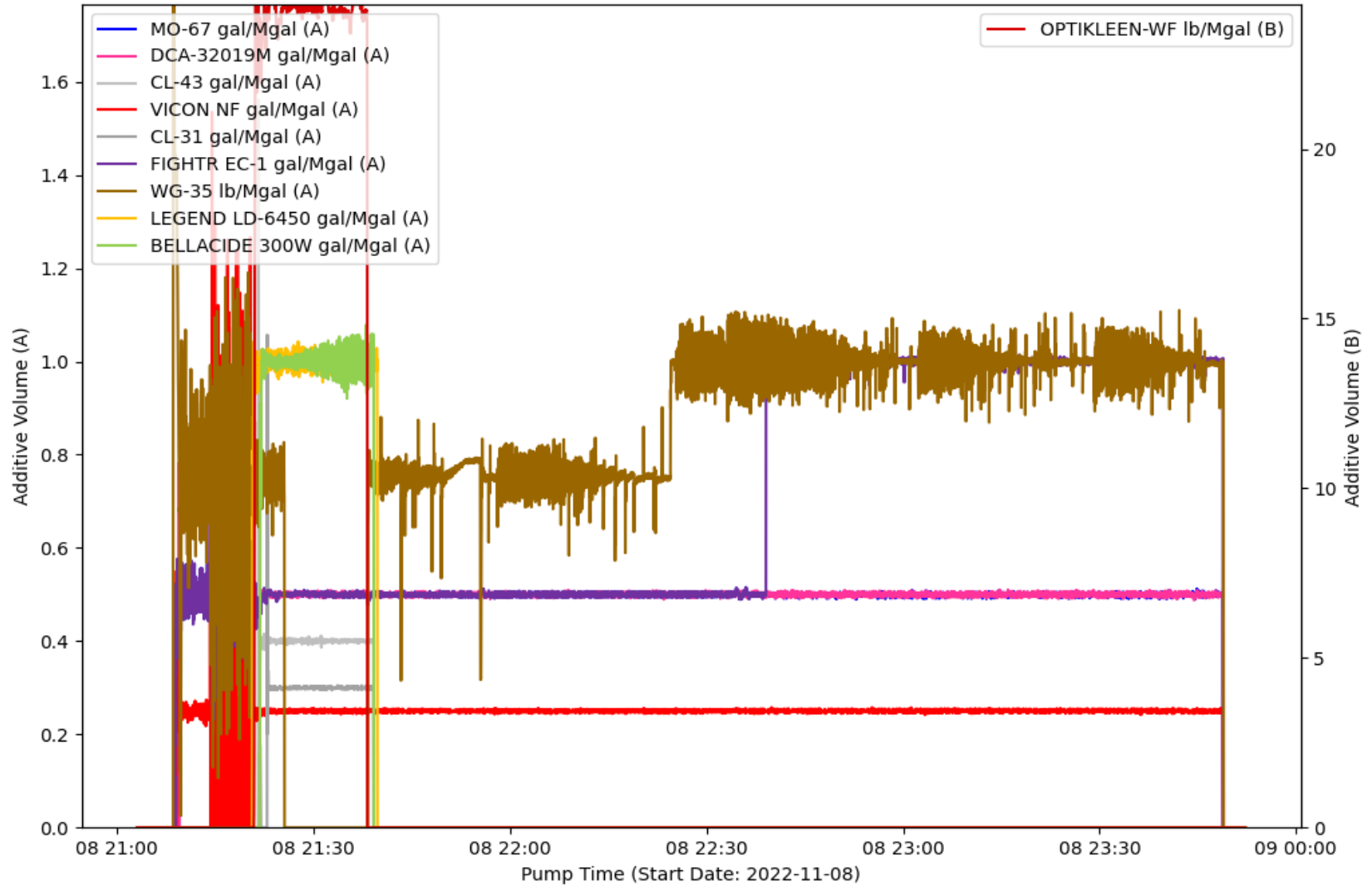
EVENT LOG : TREATMENT INTERVAL 22

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	2022-11-08T12:16:34	0	2031	0	0	0	0	0
2	Start Pumping	2022-11-08T12:17:01	0	2293	0	0	0	0	0
3	Pump Acid	2022-11-08T12:20:42	9.95	3523	0	0	1401	1401	0
4	Ball on Seat	2022-11-08T12:35:47	16.13	4029	0	0	12399	12399	0
5	Break Formation	2022-11-08T12:37:10	16.13	4031	0	0	13334	13334	0
6	Pump Xlink Pill	2022-11-08T12:44:31	76.94	5849	0	0	31669	31669	0
7	Stop Pumping	2022-11-08T13:44:07	1.07	4325	0	0	204748	209084	96158
8	ISIP	2022-11-08T13:44:37	0	4042	0	0	204749	209085	96158

TREATMENT PLOT : Treatment Interval 23



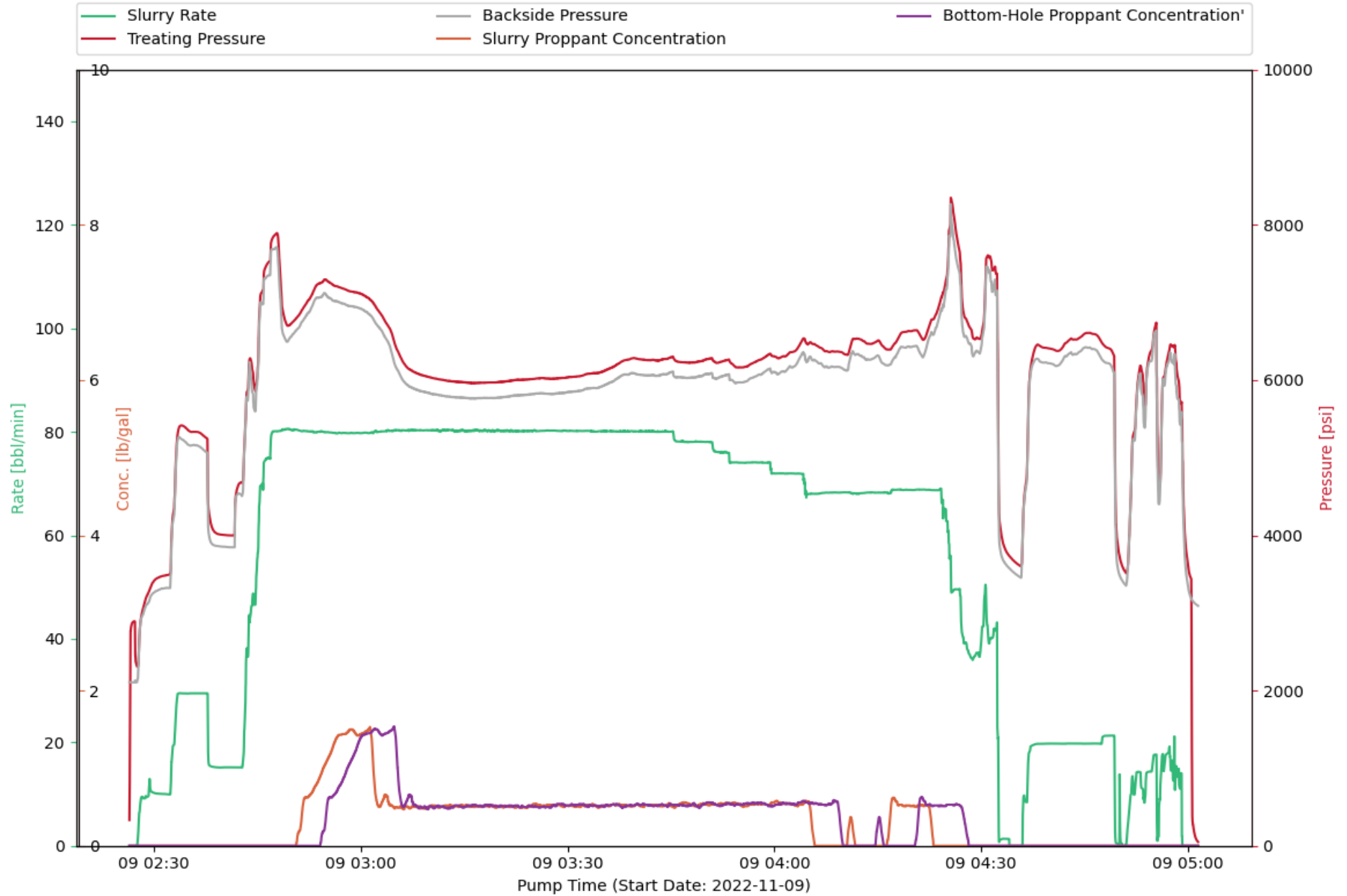
CHEMISTRY PLOT : Treatment Interval 23



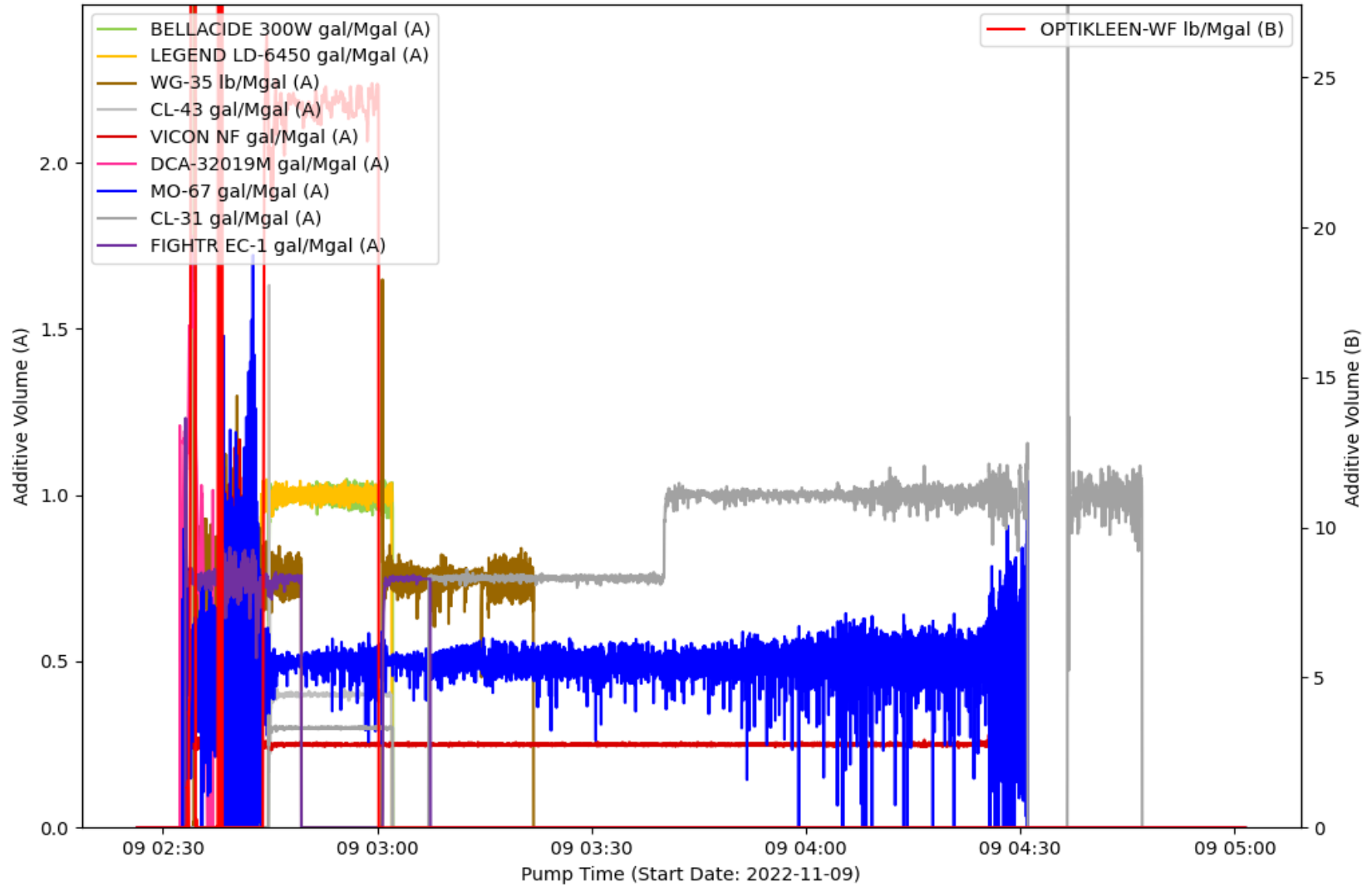
EVENT LOG : TREATMENT INTERVAL 23

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	2022-11-08T21:04:07	0	2438	0	0	0	0	0
2	Start Pumping	2022-11-08T21:04:17	0.18	2395	0	0	1.1	1.1	0
3	Pump Acid	2022-11-08T21:05:59	9.97	2951	0	0	613.26	613.26	0
4	Ball on Seat	2022-11-08T21:19:28	14.8	3914	0	0	11324	11324	0
5	Break Formation	2022-11-08T21:19:59	14.79	3972	0	0	11648	11648	0
6	Pump Xlink Pill	2022-11-08T21:21:47	61.13	6821	0	0	14378	14378	0
7	Stop Pumping	2022-11-08T23:50:25	15.56	3602	0	0	487081	498655	254979
8	ISIP	2022-11-08T23:50:28	0	3533	0	0	487081	498655	254979
9	Shut In Well	2022-11-08T23:51:12	0	3931	0	0	487081	498655	254979

TREATMENT PLOT : Treatment Interval 24



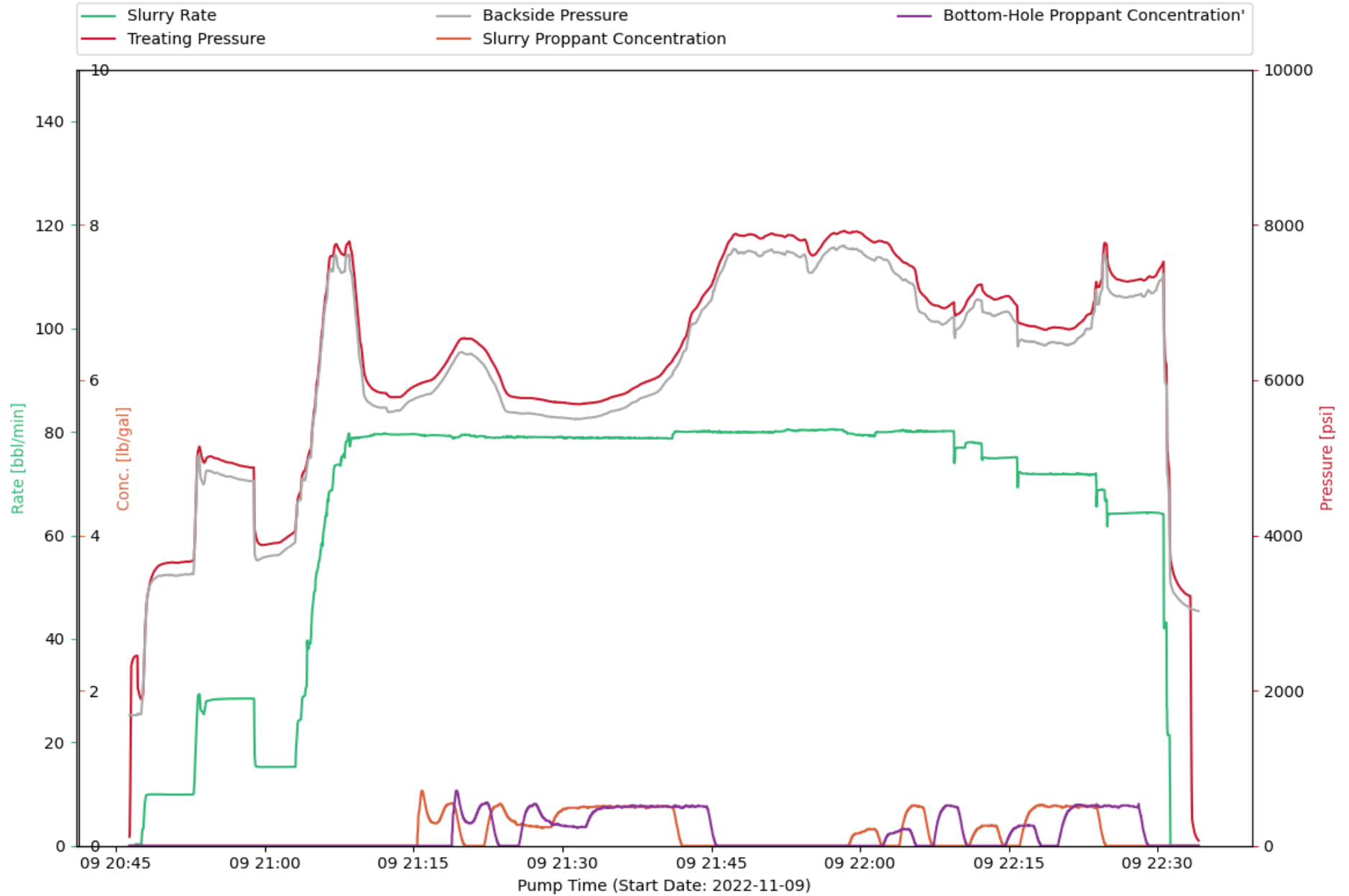
CHEMISTRY PLOT : Treatment Interval 24



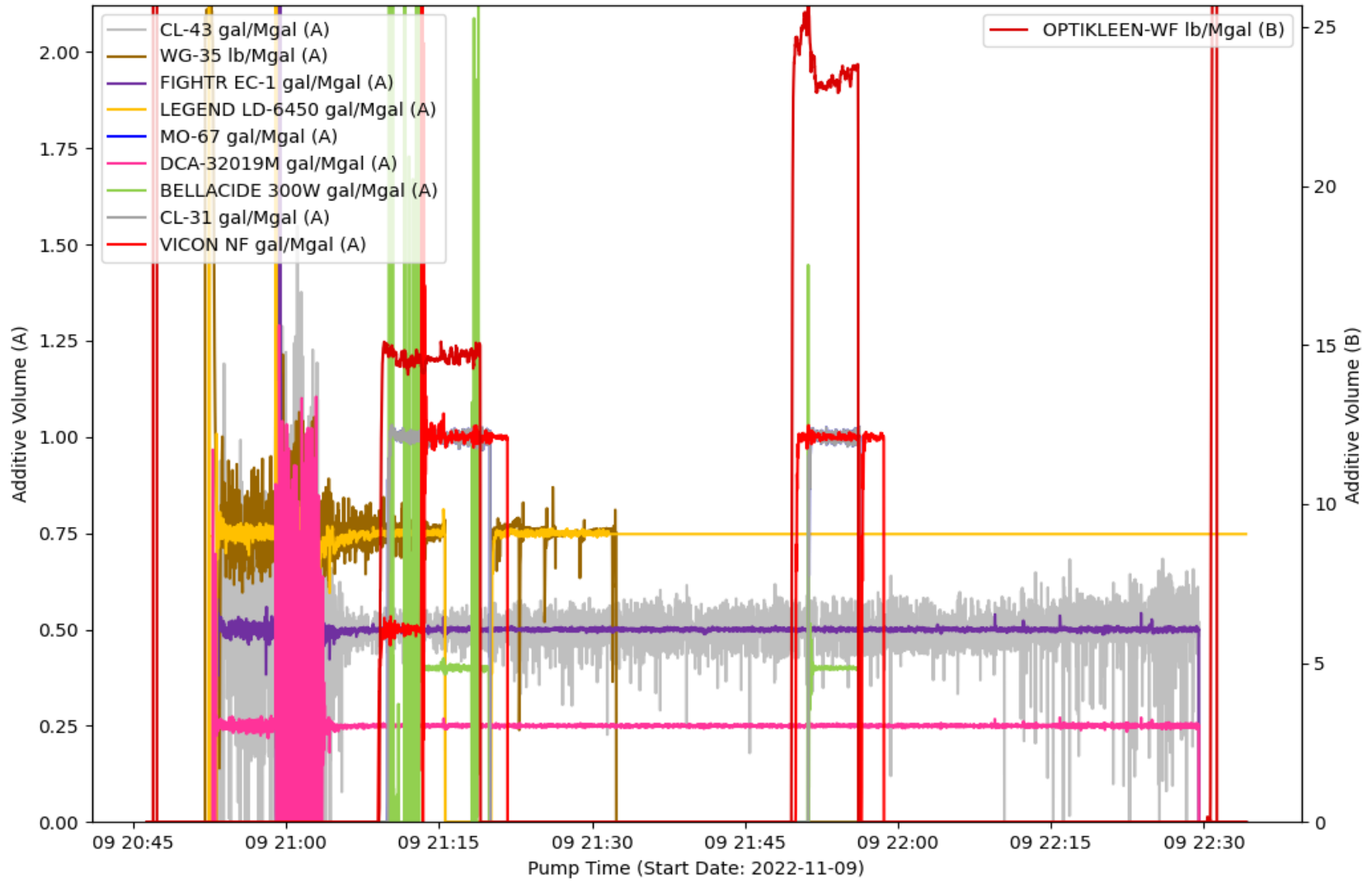
EVENT LOG : TREATMENT INTERVAL 24

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	2022-11-09T02:27:25	0	2345	0	0	0	0	0
2	Start Pumping	2022-11-09T02:27:33	0.05	2309	0	0	0.04	0.04	0
3	Pump Acid	2022-11-09T02:29:53	10.28	3401	0	0	869.44	869.42	0
4	Ball on Seat	2022-11-09T02:41:40	15.17	3998	0	0	10736	10736	0
5	Break Formation	2022-11-09T02:42:19	15.16	4664	0	0	11154	11154	0
6	Pump Xlink Pill	2022-11-09T02:44:40	46.59	5857	0	0	14419	14419	0
7	Stop Pumping	2022-11-09T04:32:43	1.14	4132	0	0	342995	350070	156512
8	ISIP	2022-11-09T04:32:46	1.18	4097	0	0	342997	350073	156512
9	Start Pumping	2022-11-09T04:35:57	0	3811	0	0	343069	350144	156512
10	Stop Pumping	2022-11-09T04:59:07	1.84	5506	0	0	358307	365382	156512
11	Shut In Well	2022-11-09T05:00:27	0	3442	0	0	358308	365383	156512

TREATMENT PLOT : Treatment Interval 25



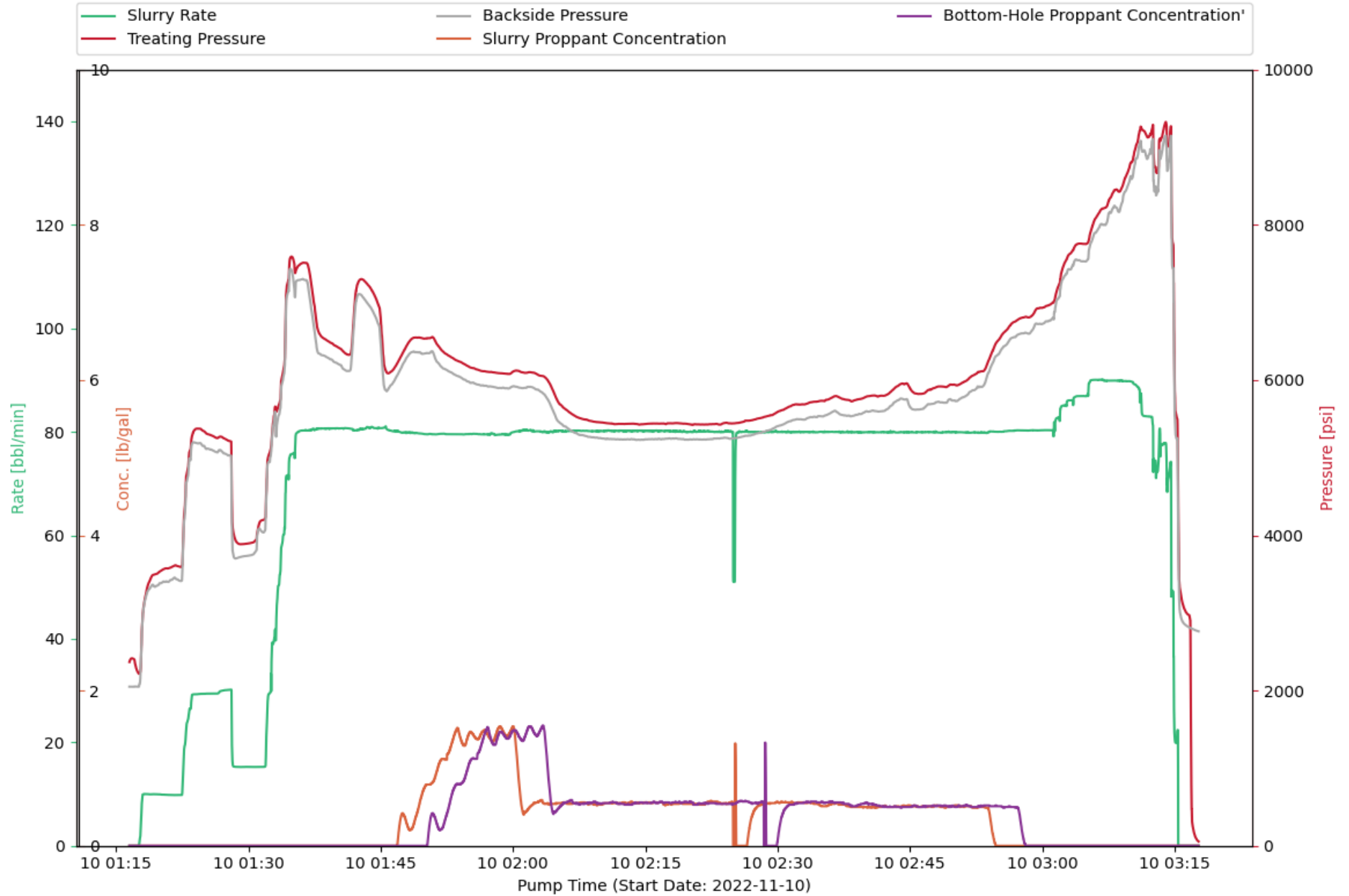
CHEMISTRY PLOT : Treatment Interval 25



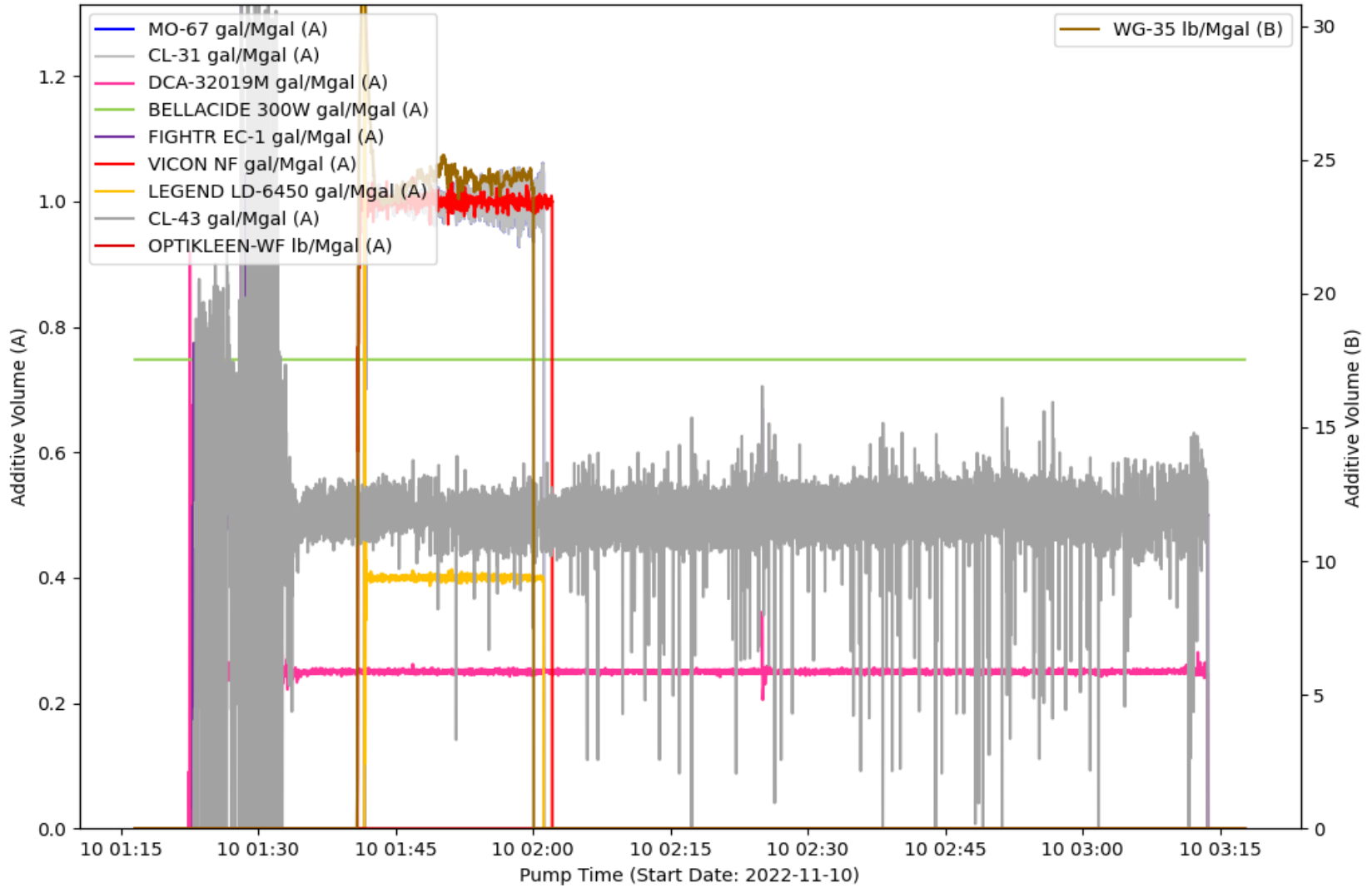
EVENT LOG : TREATMENT INTERVAL 25

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	Start Avg Trt 25	2022-11-09T20:46:49	0	2429	0	0	0	0	0
2	Open Well	2022-11-09T20:47:21	0.26	1946	0	0	4.67	4.67	0
3	Start Pumping	2022-11-09T20:47:30	0.25	1895	0	0	6.29	6.29	0
4	Pump Acid	2022-11-09T20:50:11	9.9	3646	0	0	1019	1019	0
5	Ball on Seat	2022-11-09T21:01:24	15.24	3905	0	0	10780	10780	0
6	Break Formation	2022-11-09T21:02:19	15.25	3983	0	0	11362	11362	0
7	Pump Xlink Pill	2022-11-09T21:10:26	79.14	5950	0	0	30805	30805	0
8	Pump Xlink Pill	2022-11-09T21:51:24	80.08	7872	0	0	165714	167229	33379
9	Stop Pumping	2022-11-09T22:31:17	0	3744	0	0	289399	291793	52744
10	ISIP	2022-11-09T22:31:19	0	3677	0	0	289399	291793	52744
11	Shut In Well	2022-11-09T22:33:08	0	3226	0	0	289399	291793	52744

TREATMENT PLOT : Treatment Interval 26



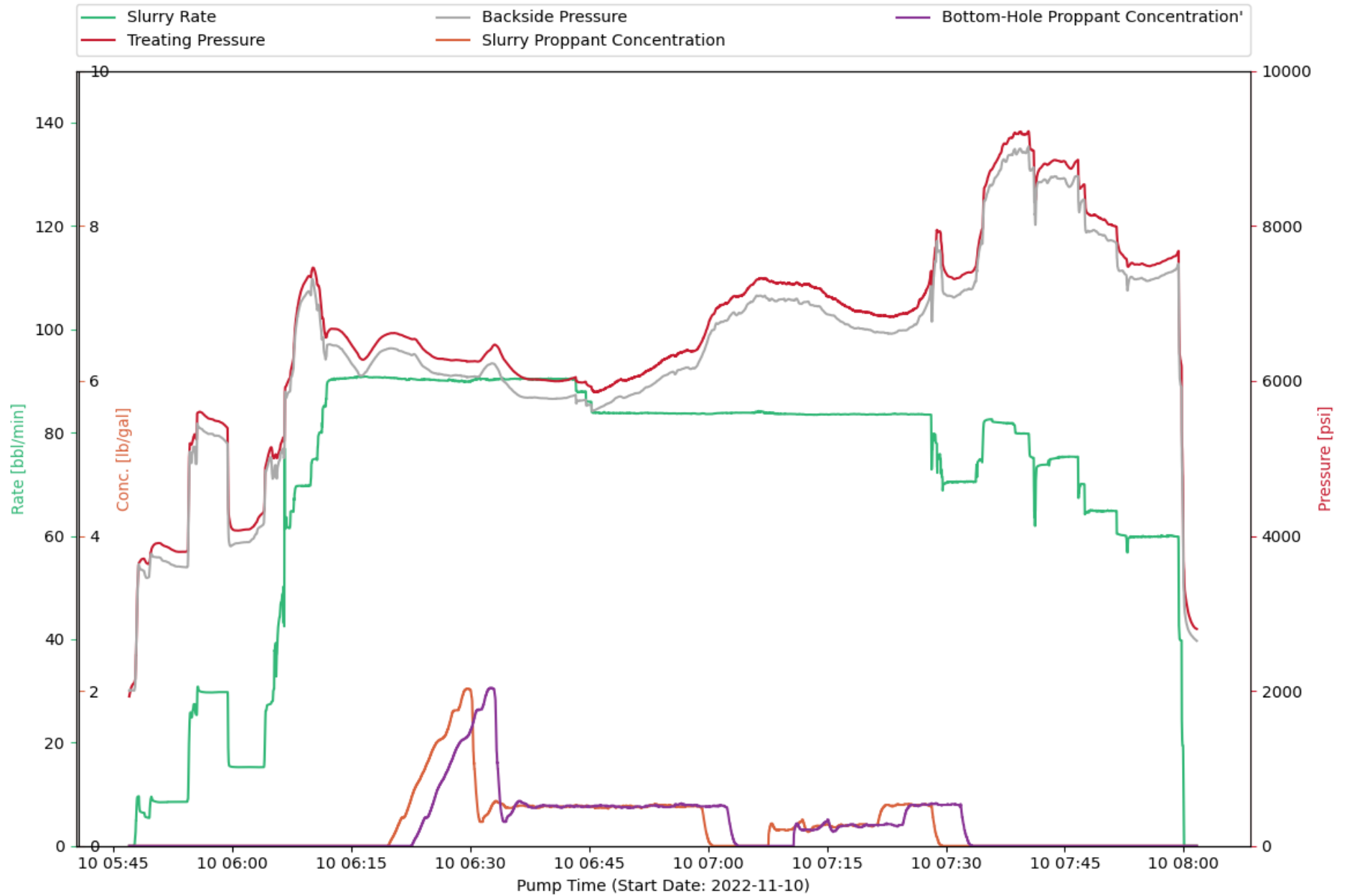
CHEMISTRY PLOT : Treatment Interval 26



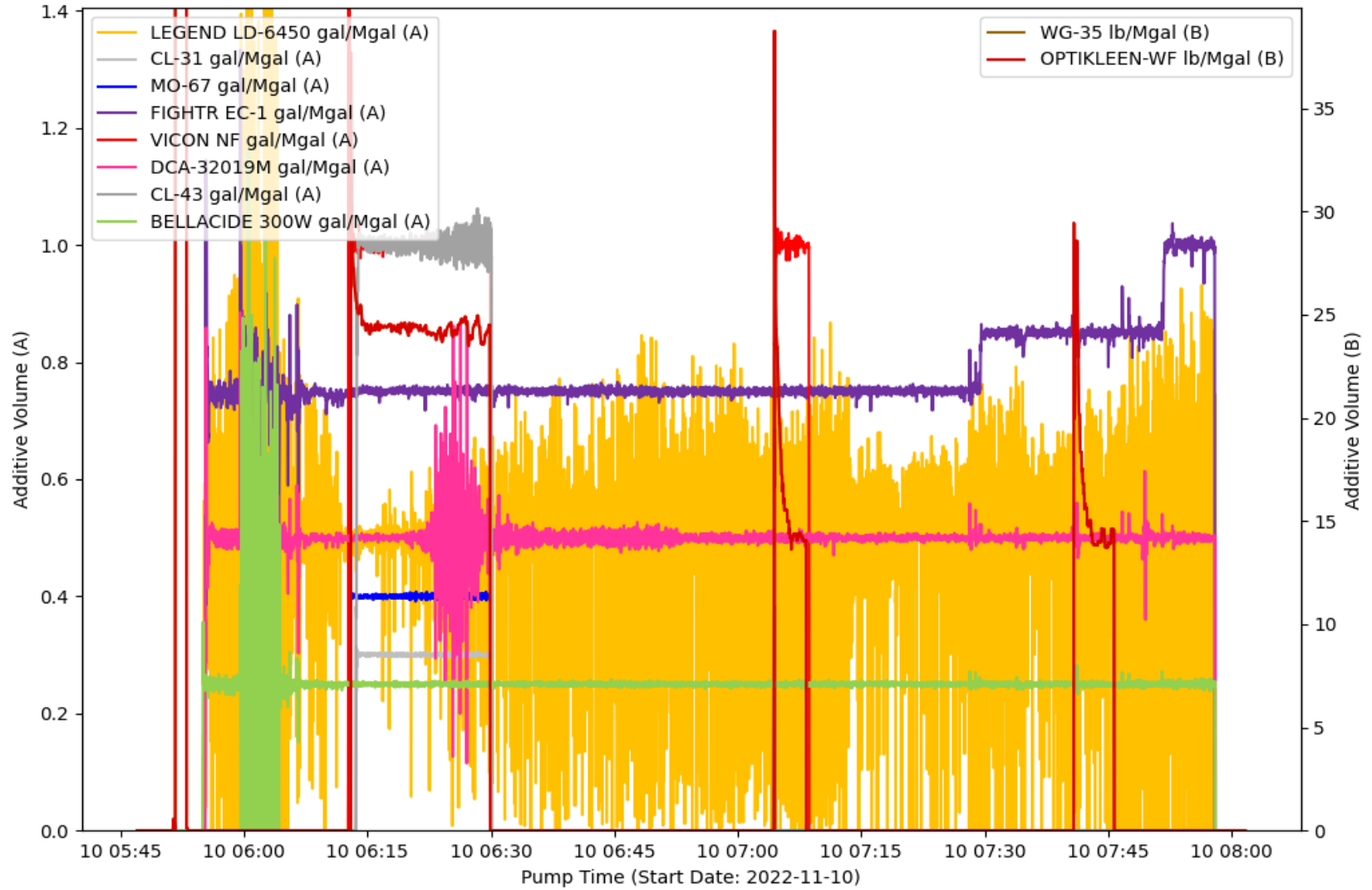
EVENT LOG : TREATMENT INTERVAL 26

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	Start Avg Trt 26	2022-11-10T01:17:27	0	2243	0	0	0	0	0
2	Open Well	2022-11-10T01:17:32	0	2226	0	0	0	0	0
3	Start Pumping	2022-11-10T01:17:37	0	2217	0	0	0	0	0
4	Pump Acid	2022-11-10T01:20:06	9.92	3542	0	0	948.58	948.58	0
5	Ball on Seat	2022-11-10T01:30:28	15.25	3906	0	0	10094	10094	0
6	Break Formation	2022-11-10T01:31:38	15.24	4197	0	0	10837	10837	0
7	Pump Xlink Pill	2022-11-10T01:42:21	80.37	7226	0	0	42314	42314	0
8	Stop Pumping	2022-11-10T03:15:24	15.21	4616	0	0	349938	356194	137830
9	ISIP	2022-11-10T03:15:41	0	3250	0	0	349938	356194	137830
10	Shut In Well	2022-11-10T03:16:43	0	2941	0	0	349938	356194	137830

TREATMENT PLOT : Treatment Interval 27



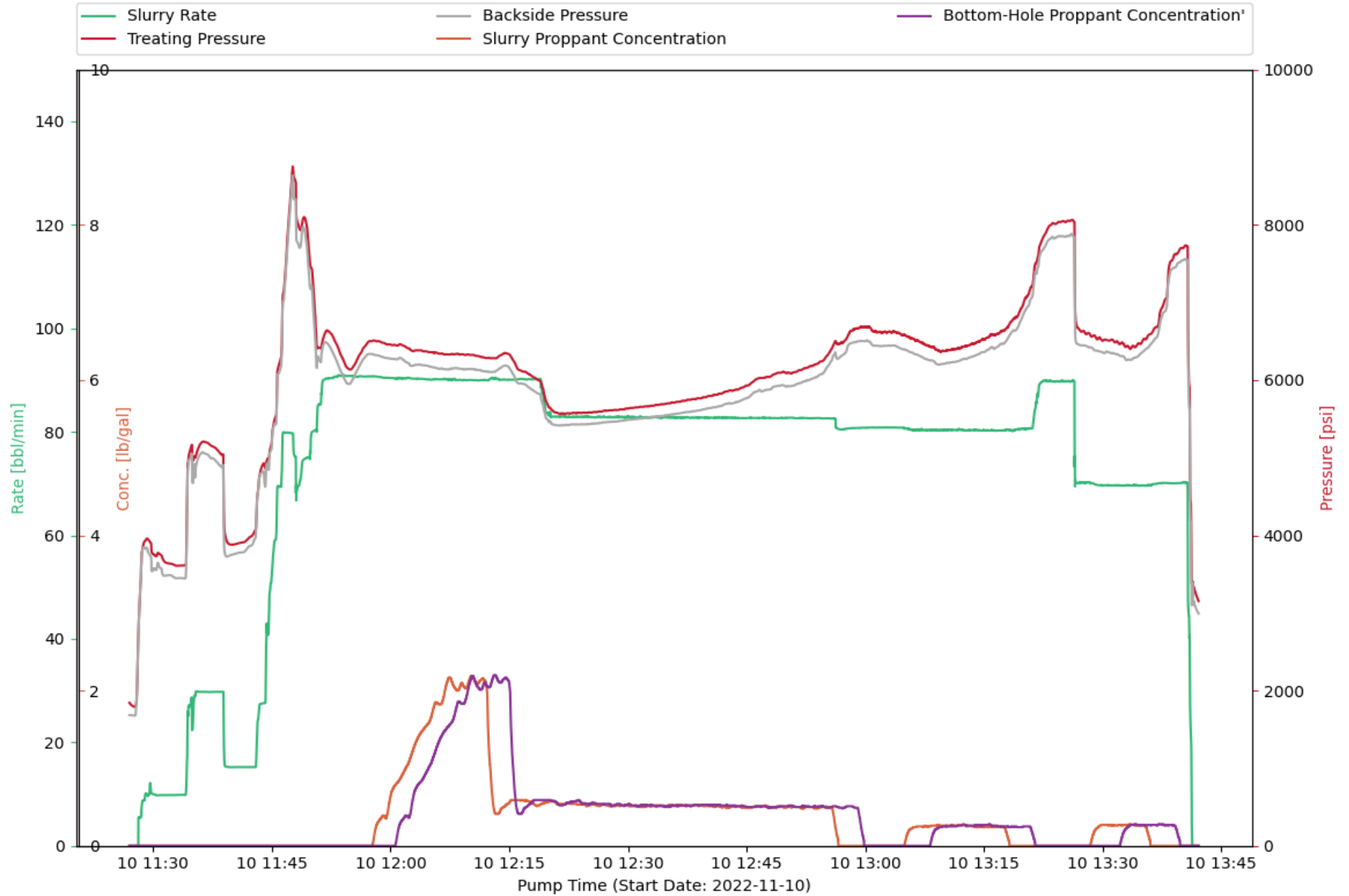
CHEMISTRY PLOT : Treatment Interval 27



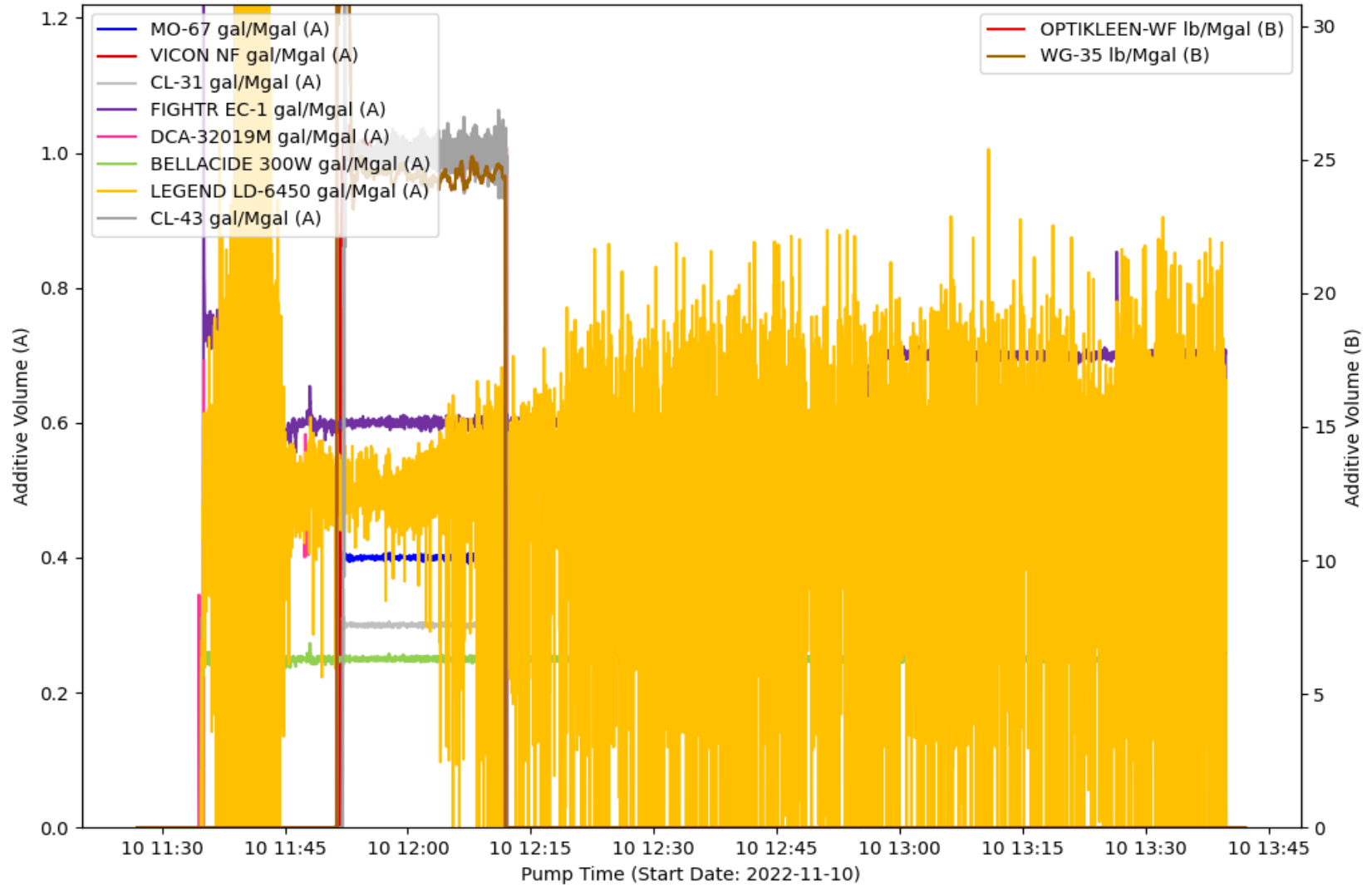
EVENT LOG : TREATMENT INTERVAL 27

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	2022-11-10T05:47:10	0	2015	0	0	0	0	0
2	Start Avg Trt 27	2022-11-10T05:47:21	0.01	2068	0	0	0.01	0.01	0
3	Start Pumping	2022-11-10T05:47:38	0.01	2104	0	0	0.14	0.14	0
4	Pump Acid	2022-11-10T05:50:51	8.45	3906	0	0	962.11	962.11	0
5	Ball on Seat	2022-11-10T06:02:40	15.24	4121	0	0	10361	10361	0
6	Break Formation	2022-11-10T06:03:31	15.23	4264	0	0	10899	10899	0
7	Pump Xlink Pill	2022-11-10T06:16:02	90.78	6306	0	0	46747	46747	0
8	Stop Pumping	2022-11-10T08:00:06	0	3337	0	0	395602	401043	119868
9	ISIP	2022-11-10T08:00:26	0	3081	0	0	395602	401043	119868
10	Shut In Well	2022-11-10T08:01:38	0	2800	0	0	395602	401043	119868

TREATMENT PLOT : Treatment Interval 28



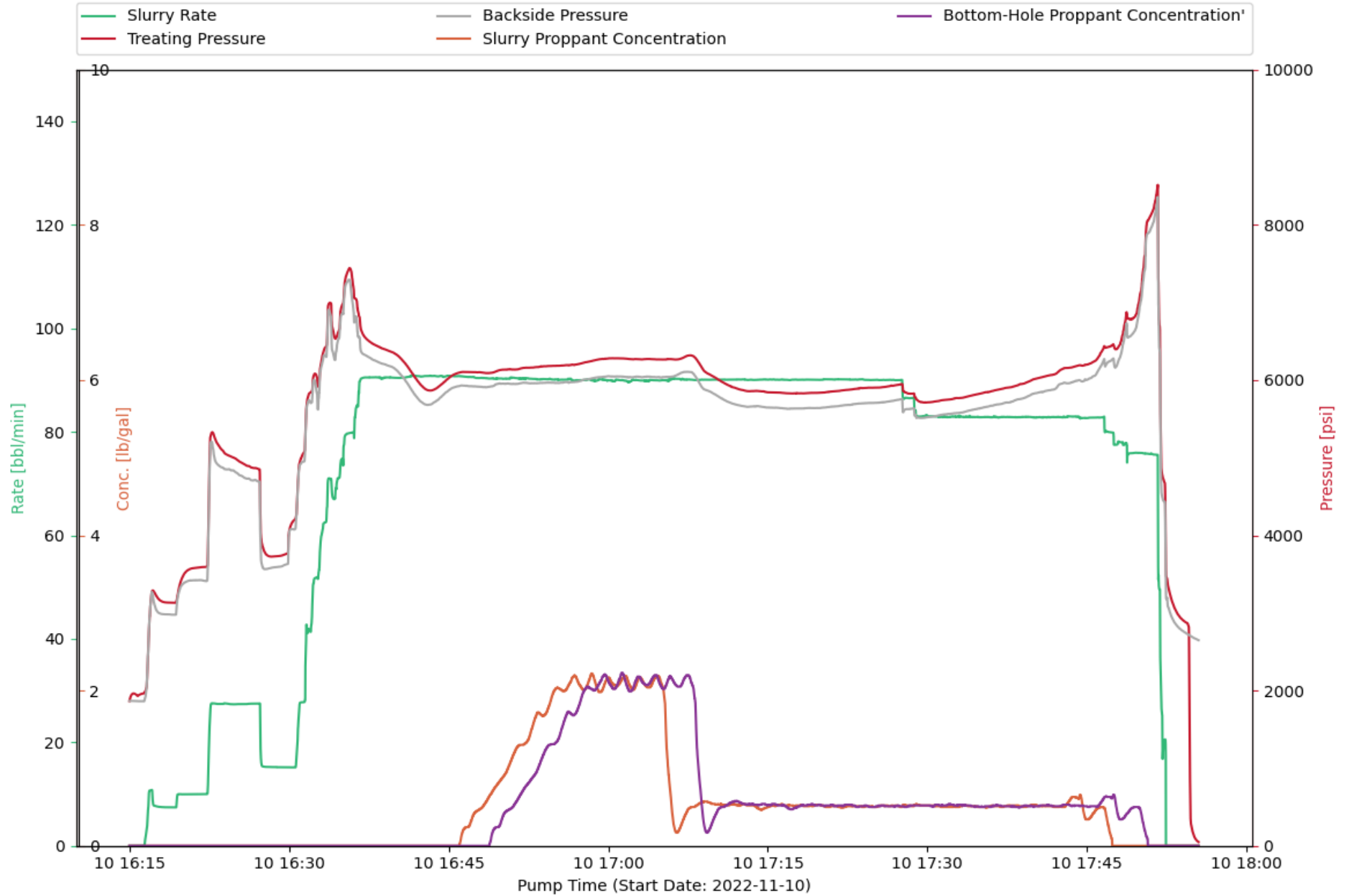
CHEMISTRY PLOT : Treatment Interval 28



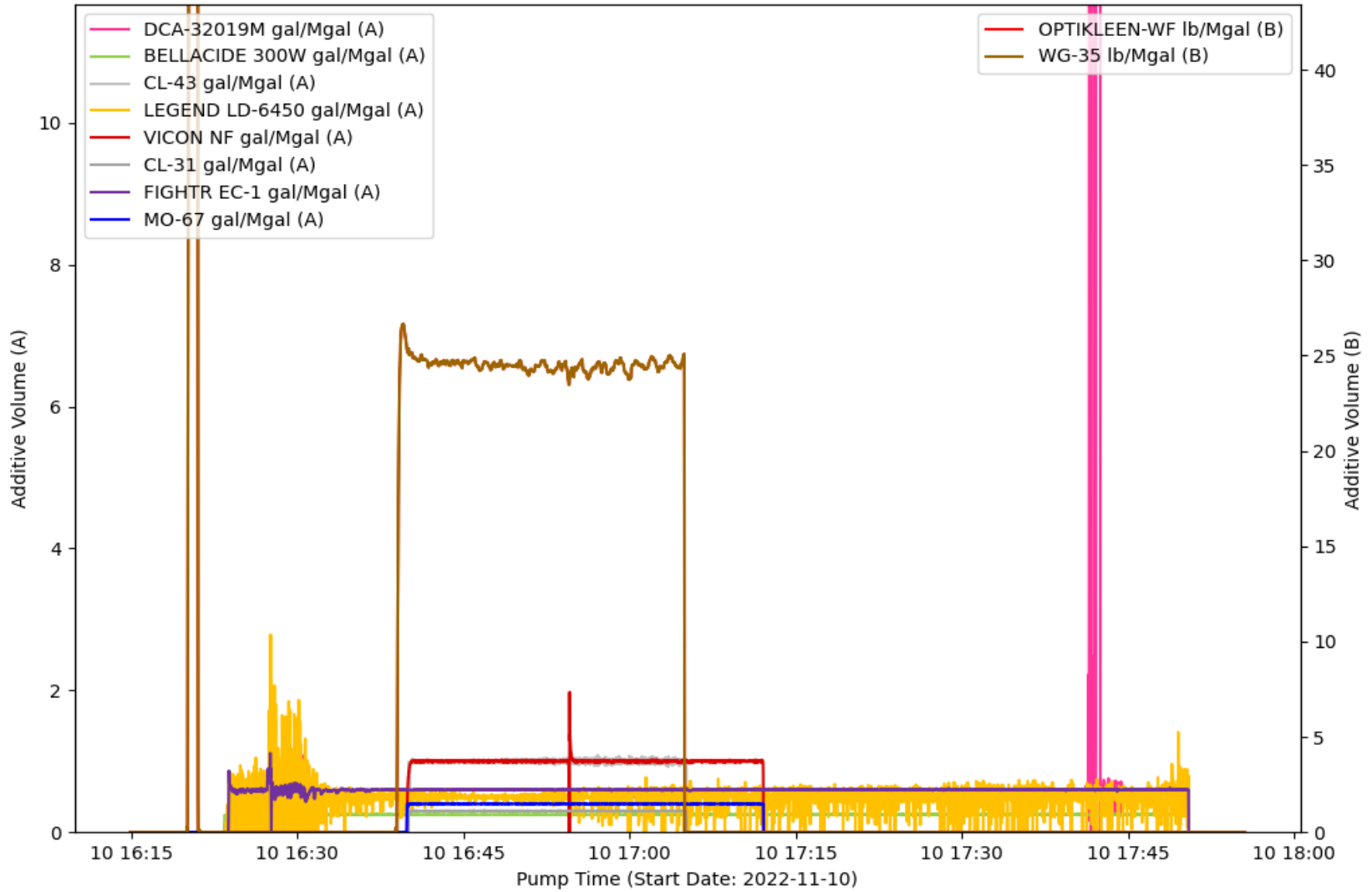
EVENT LOG : TREATMENT INTERVAL 28

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	2022-11-10T11:27:23	0	1801	0	0	0	0	0
2	Start Pumping	2022-11-10T11:27:58	0	2050	0	0	0	0	0
3	Pump Acid	2022-11-10T11:30:21	9.77	3737	0	0	850.09	850.12	0
4	Ball on Seat	2022-11-10T11:41:27	15.23	3911	0	0	9756	9756	0
5	Break Formation	2022-11-10T11:42:50	15.21	4053	0	0	10637	10637	0
6	Pump Xlink Pill	2022-11-10T11:53:21	90.86	6425	0	0	41135	41135	0
7	Stop Pumping	2022-11-10T13:41:12	19.23	4003	0	0	407008	414728	170090
8	ISIP	2022-11-10T13:41:32	0	3330	0	0	407040	414760	170090
9	Shut In Well	2022-11-10T13:42:06	0	3157	0	0	407040	414760	170090

TREATMENT PLOT : Treatment Interval 29



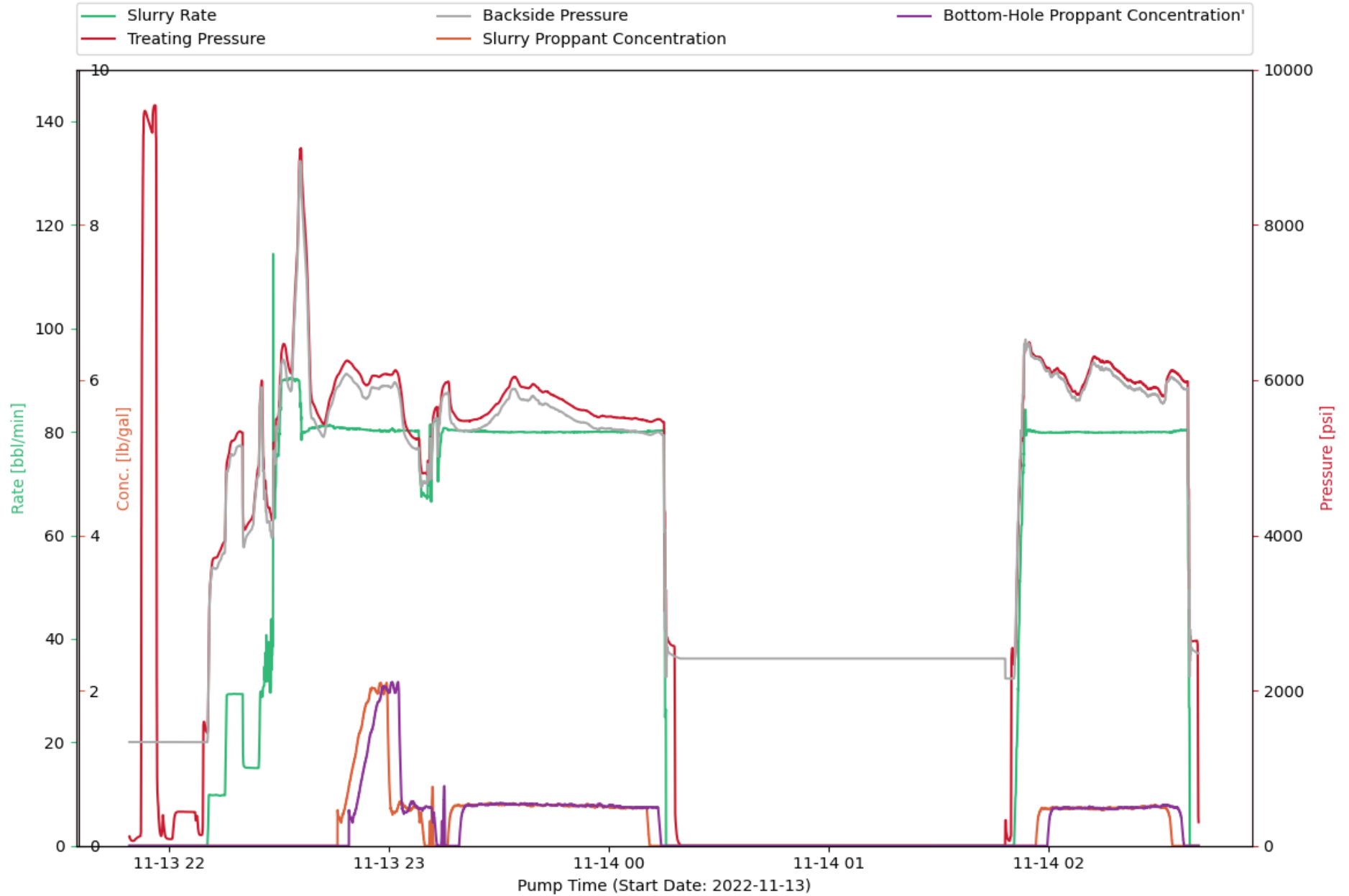
CHEMISTRY PLOT : Treatment Interval 29



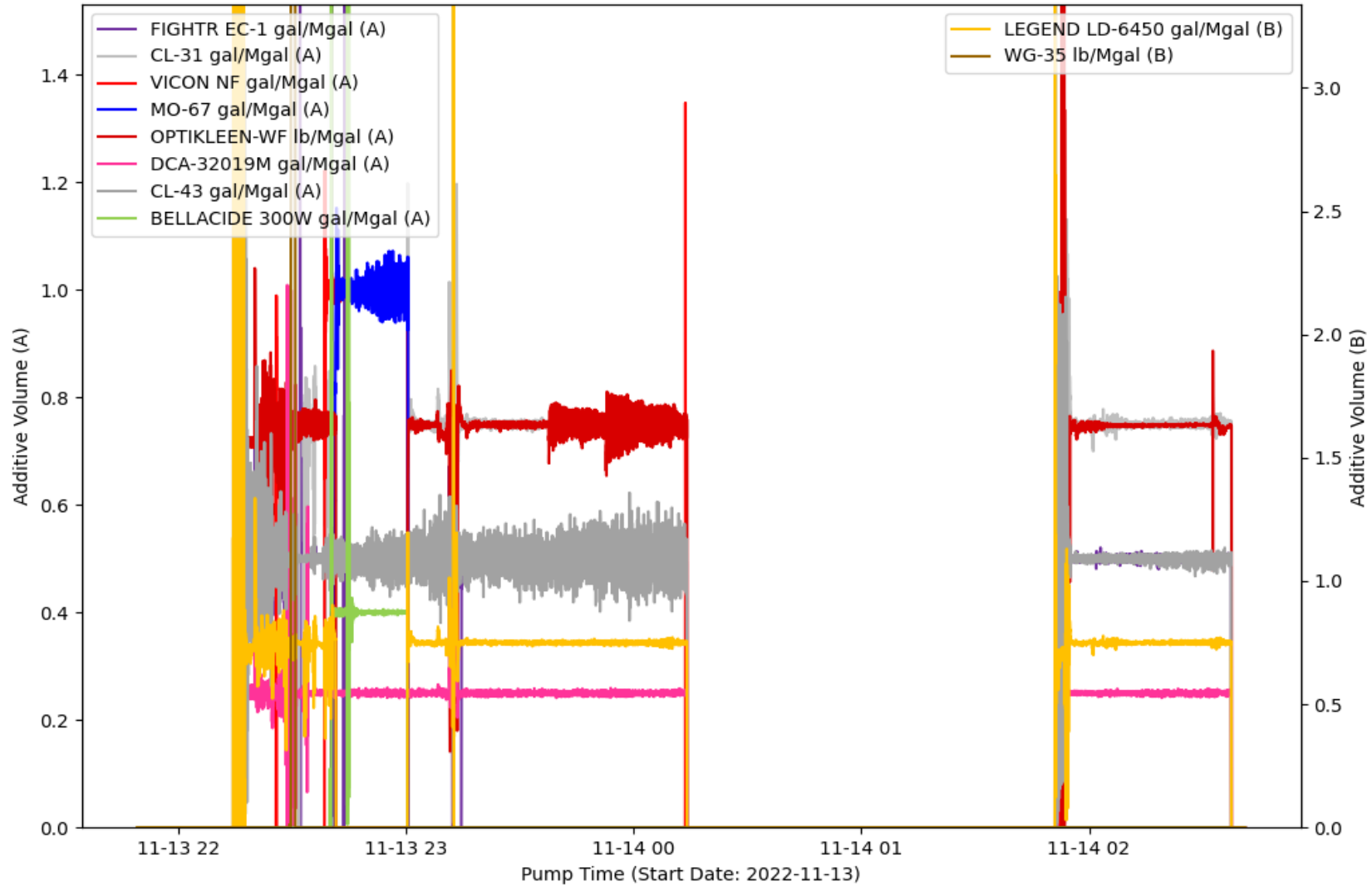
EVENT LOG : TREATMENT INTERVAL 29

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	2022-11-10T16:15:57	0	1950	0	0	0	0	0
2	Start Pumping	2022-11-10T16:16:21	0.02	1968	0	0	0.15	0.15	0
3	Pump Acid	2022-11-10T16:19:28	9.84	3220	0	0	968.85	968.85	0
4	Ball on Seat	2022-11-10T16:29:48	15.17	3766	0	0	9419	9418	0
5	Break Formation	2022-11-10T16:30:37	15.64	4237	0	0	9944	9944	0
6	Pump Xlink Pill	2022-11-10T16:41:33	90.89	6086	0	0	43947	43947	0
7	Stop Pumping	2022-11-10T17:52:26	17.26	3779	0	0	293797	302126	183501
8	ISIP	2022-11-10T17:53:14	0	3070	0	0	293797	302126	183501
9	Shut In Well	2022-11-10T17:54:31	0	2853	0	0	293797	302126	183501

TREATMENT PLOT : Treatment Interval 30



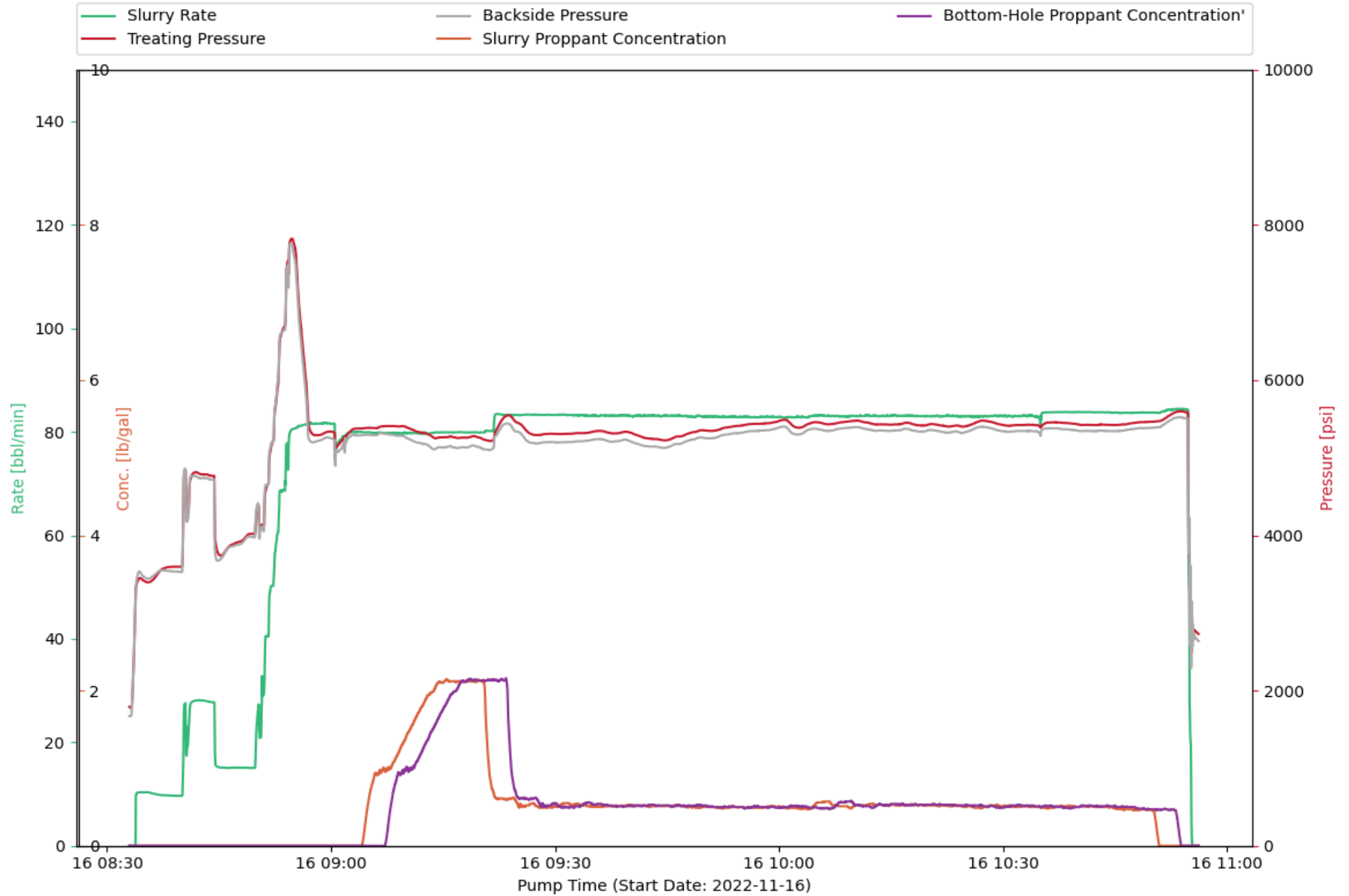
CHEMISTRY PLOT : Treatment Interval 30



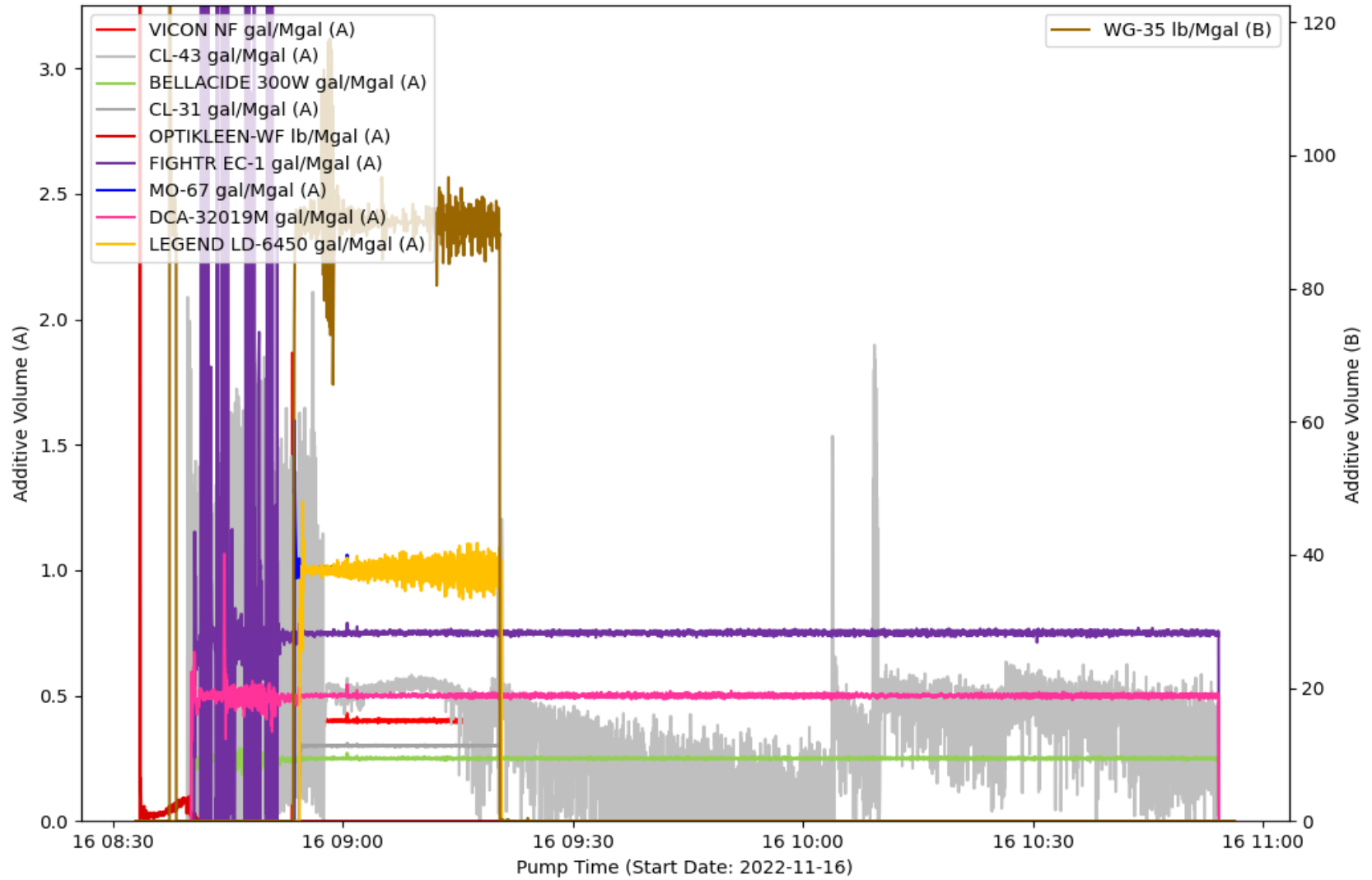
EVENT LOG : TREATMENT INTERVAL 30

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	2022-11-13T22:10:08	0	1482	0	0	0	0	0
2	Open Well	2022-11-13T22:10:20	0	1464	0	0	0	0	0
3	Start Pumping	2022-11-13T22:10:32	0	1460	0	0	0	0	0
4	Pump Acid	2022-11-13T22:12:55	9.85	3712	0	0	895.21	895.21	0
5	Ball on Seat	2022-11-13T22:22:59	15.06	4257	0	0	9480	9480	0
6	Break Formation	2022-11-13T22:24:23	15.01	4867	0	0	10361	10361	0
7	Pump Xlink Pill	2022-11-13T22:41:57	81.07	5448	0	0	63043	63043	0
8	Water transfer pump down	2022-11-14T00:10:23	80.01	5473	0.49	0.5	351508	359180	169046
9	Stop Pumping	2022-11-14T00:15:41	25.87	3063	0	0	368492	376198	169779
10	Shut In Well	2022-11-14T00:17:59	0	2568	0	0	368492	376198	169779
11	Suspending Job	2022-11-14T00:19:28	0	24.51	0	0	368492	376198	169779
12	Resuming Job	2022-11-14T01:48:16	0	0	0	0	368492	376198	169779
13	Open Well	2022-11-14T01:50:35	0	2356	0	0	368492	376198	169779
14	Start Pumping	2022-11-14T01:50:42	0.02	2334	0	0	368492	376198	169779
15	Stop Pumping	2022-11-14T02:38:39	16.26	2454	0	0	521605	531954	227979
16	ISIP	2022-11-14T02:38:43	0	2546	0	0	521605	531954	227979
17	Shut In Well	2022-11-14T02:40:40	0	2642	0	0	521605	531954	227979

TREATMENT PLOT : Treatment Interval 31



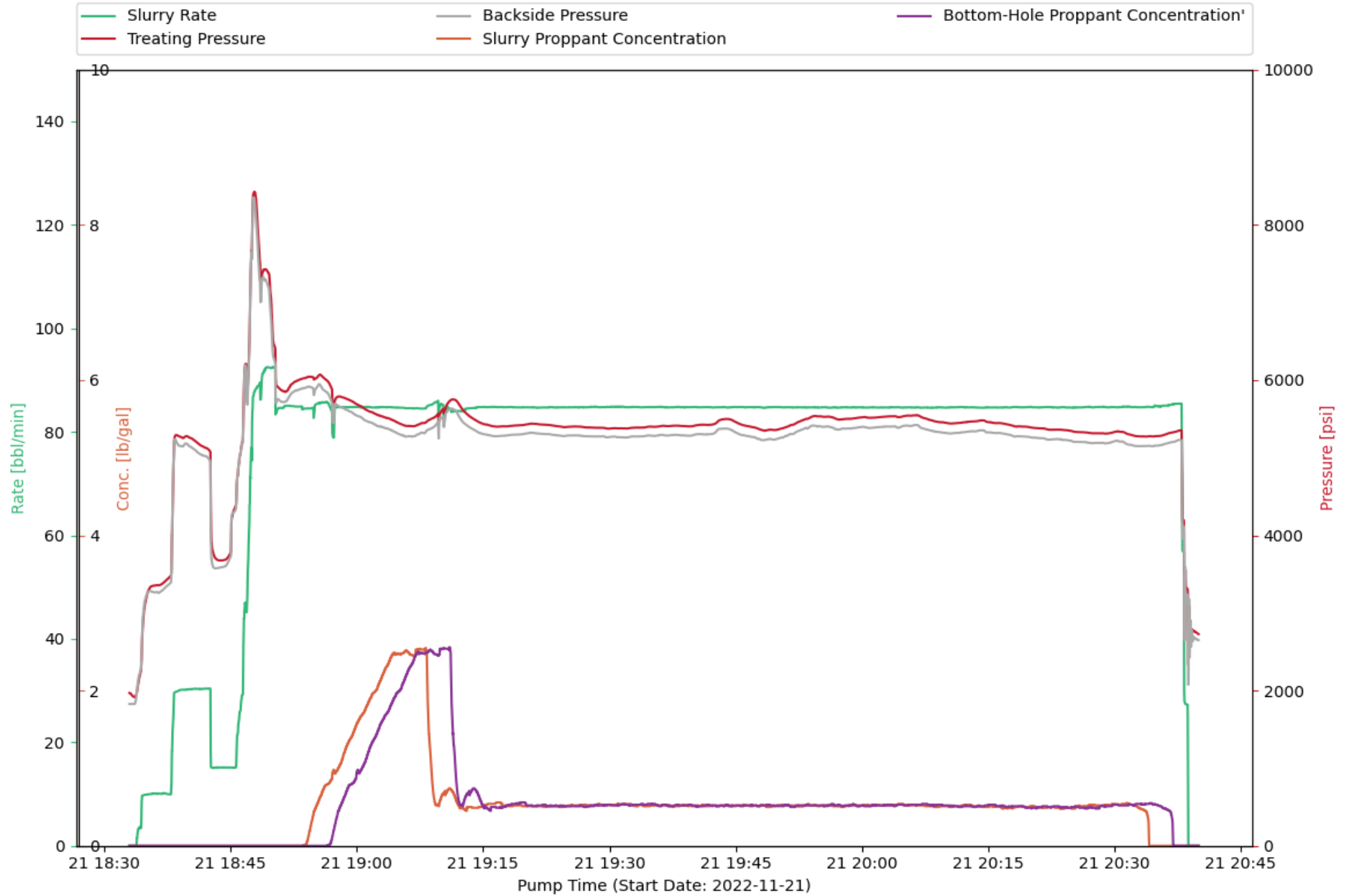
CHEMISTRY PLOT : Treatment Interval 31



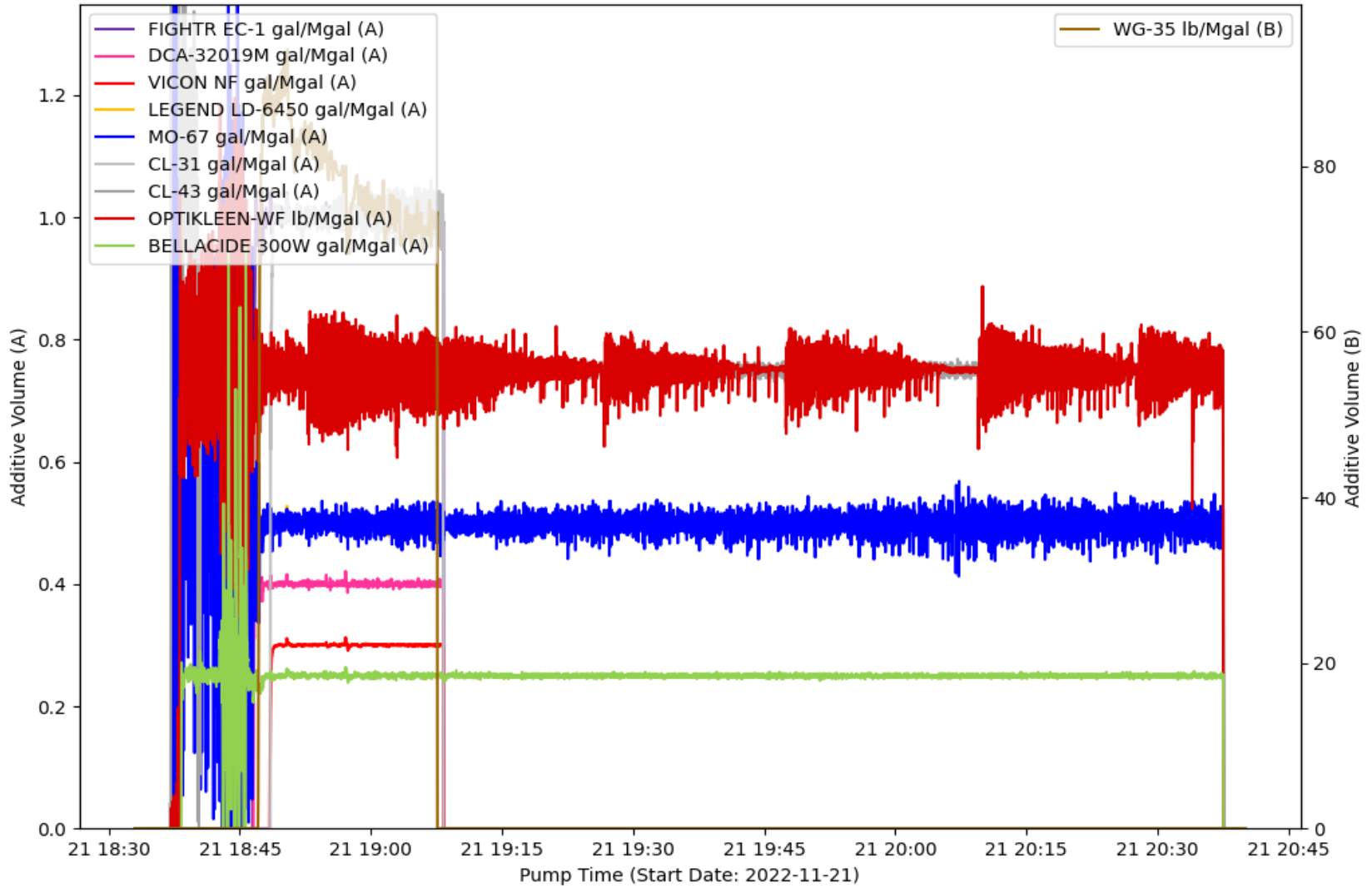
EVENT LOG : TREATMENT INTERVAL 31

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	2022-11-16T08:33:26	0	2022	0	0	0	0	0
2	Start Pumping	2022-11-16T08:34:42	10.38	3432	0	0	376.28	376.28	0
3	Pump Acid	2022-11-16T08:36:56	9.87	3525	0	0	1334	1334	0
4	Ball on Seat	2022-11-16T08:48:48	15.08	4004	0	0	10219	10219	0
5	Break Formation	2022-11-16T08:49:36	15.05	4019	0	0	10719	10719	0
6	Pump Xlink Pill	2022-11-16T09:03:13	79.94	5374	0	0	50234	50234	0
7	Stop Pumping	2022-11-16T10:55:12	13.93	2497	0	0	427408	438279	240912
8	ISIP	2022-11-16T10:55:15	4.23	2698	0	0	427423	438295	240912
9	Shut In Well	2022-11-16T10:56:11	0	2730	0	0	427428	438300	240912

TREATMENT PLOT : Treatment Interval 32



CHEMISTRY PLOT : Treatment Interval 32



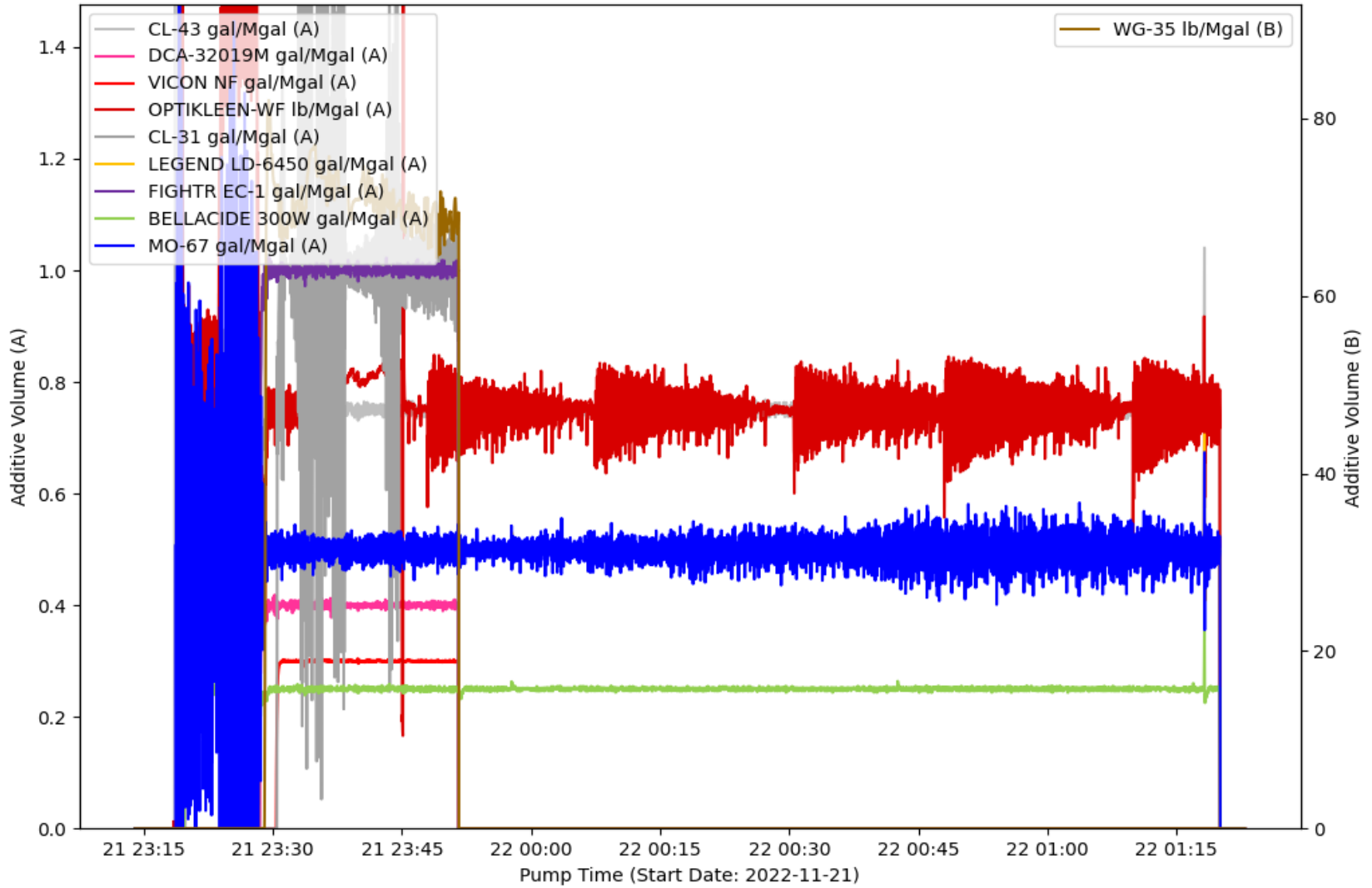
EVENT LOG : TREATMENT INTERVAL 32

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	2022-11-21T18:33:21	0	1933	0	0	0	0	0
2	Stop Pumping	2022-11-21T18:33:48	0.05	1946	0	0	0.04	0.04	0
3	Pump Acid	2022-11-21T18:35:25	9.98	3324	0	0	484.6	484.6	0
4	Ball on Seat	2022-11-21T18:45:01	15.16	3777	0	0	8885	8885	0
5	Break Formation	2022-11-21T18:45:36	15.1	4375	0	0	9259	9259	0
6	Pump Xlink Pill	2022-11-21T18:51:27	84.99	5850	0	0	27151	27151	0
7	Stop Pumping	2022-11-21T20:38:46	0.23	2332	0	0	397026	407609	234534
8	ISIP	2022-11-21T20:38:48	0	2493	0	0	397026	407609	234534
9	Shut In Well	2022-11-21T20:39:39	0	2754	0	0	397026	407609	234534

TREATMENT PLOT : Treatment Interval 33



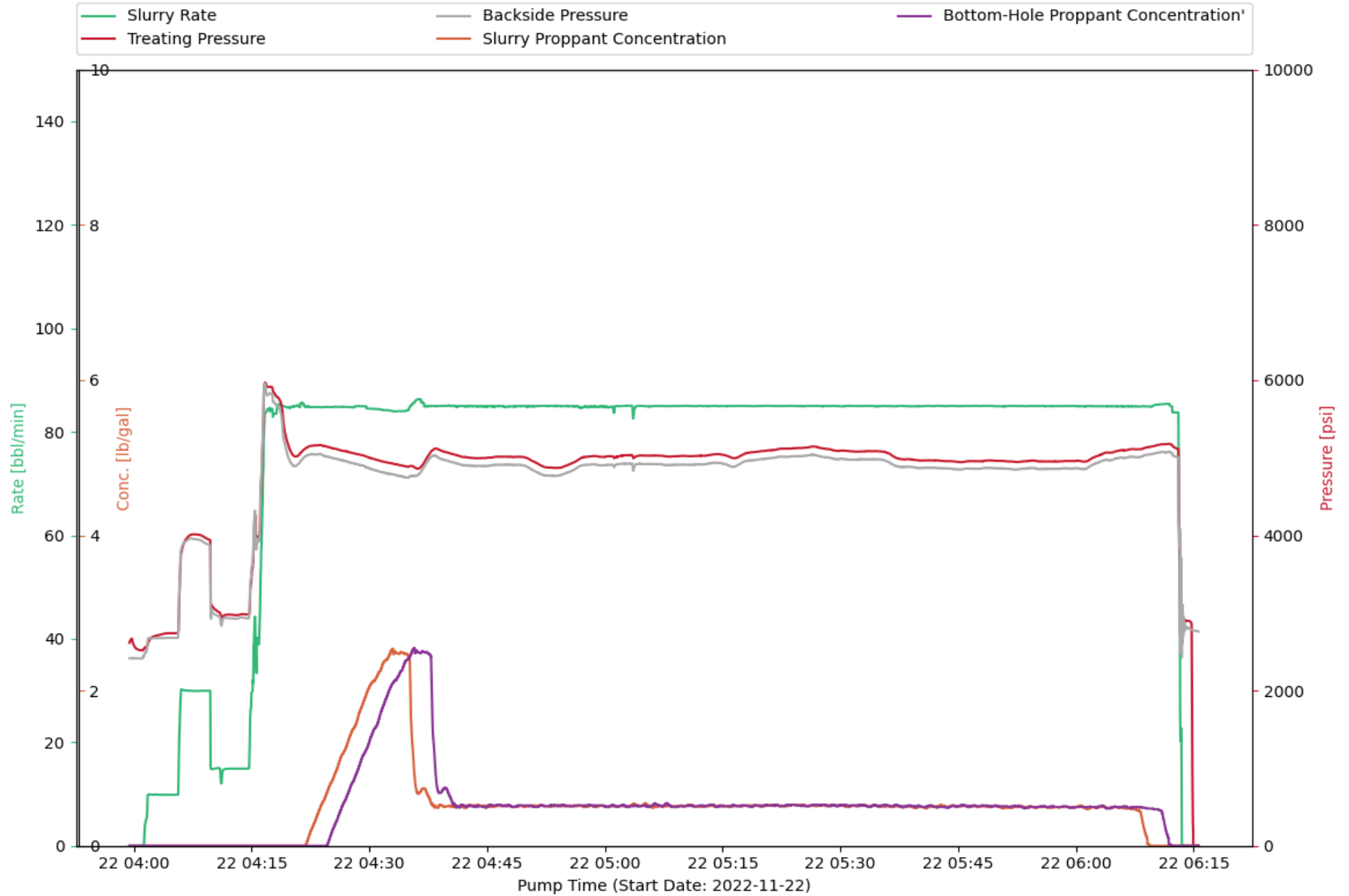
CHEMISTRY PLOT : Treatment Interval 33



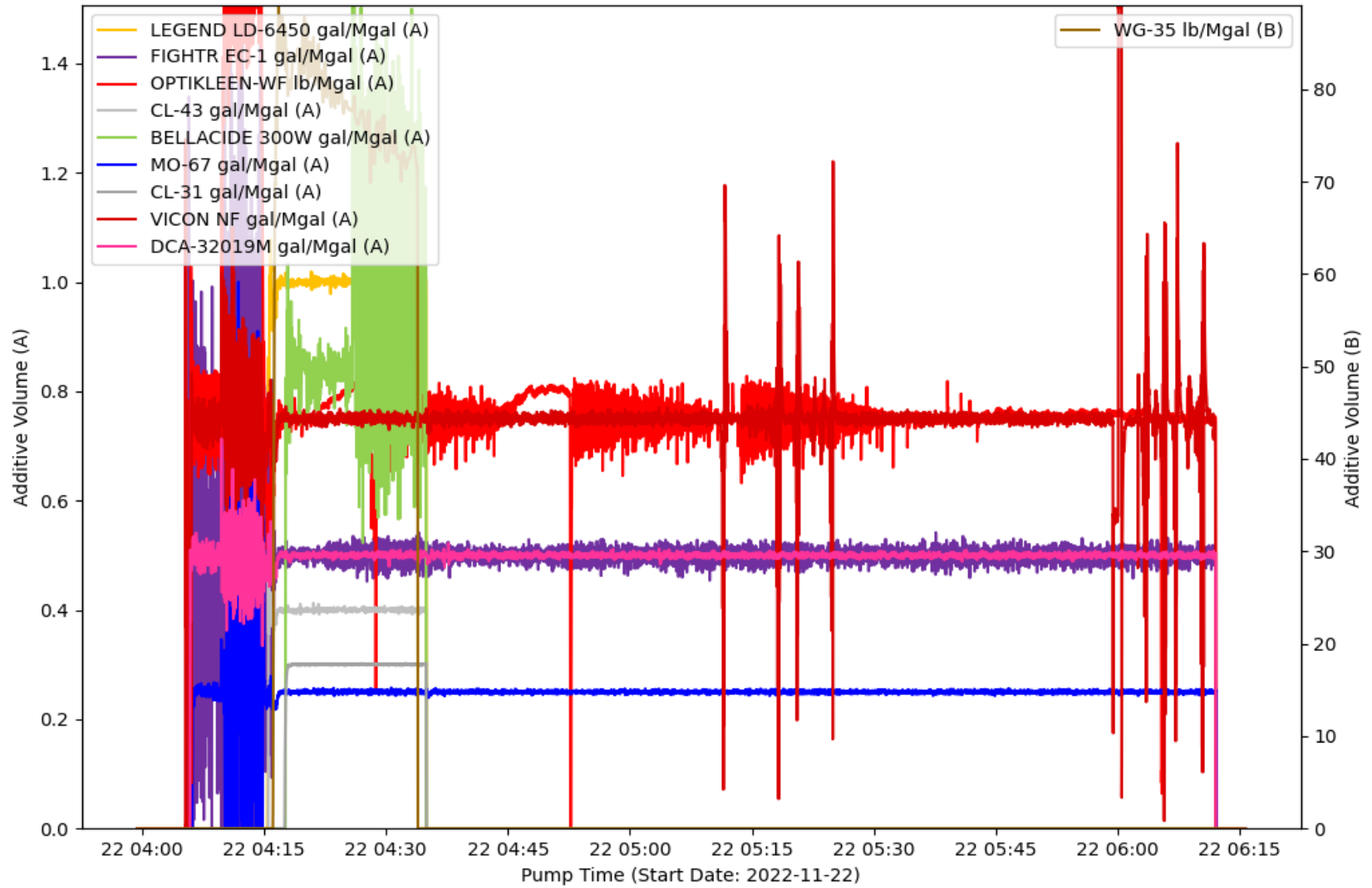
EVENT LOG : TREATMENT INTERVAL 33

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	2022-11-21T23:14:22	0	2539	0	0	0	0	0
2	Start Pumping	2022-11-21T23:14:54	0.01	2488	0	0	0.02	0.02	0
3	Pump Acid	2022-11-21T23:16:43	9.78	2760	0	0	600.82	600.82	0
4	Ball on Seat	2022-11-21T23:26:56	14.89	3030	0	0	9001	9001	0
5	Break Formation	2022-11-21T23:28:02	14.89	3157	0	0	9686	9686	0
6	Pump Xlink Pill	2022-11-21T23:32:27	70.39	5216	0	0	21173	21173	0
7	Stop Pumping	2022-11-22T01:21:31	0	2357	0	0	386544	397385	238877
8	ISIP	2022-11-22T01:21:32	0	2373	0	0	386544	397385	238877
9	Shut In Well	2022-11-22T01:22:26	0	2802	0	0	386544	397385	238877

TREATMENT PLOT : Treatment Interval 34



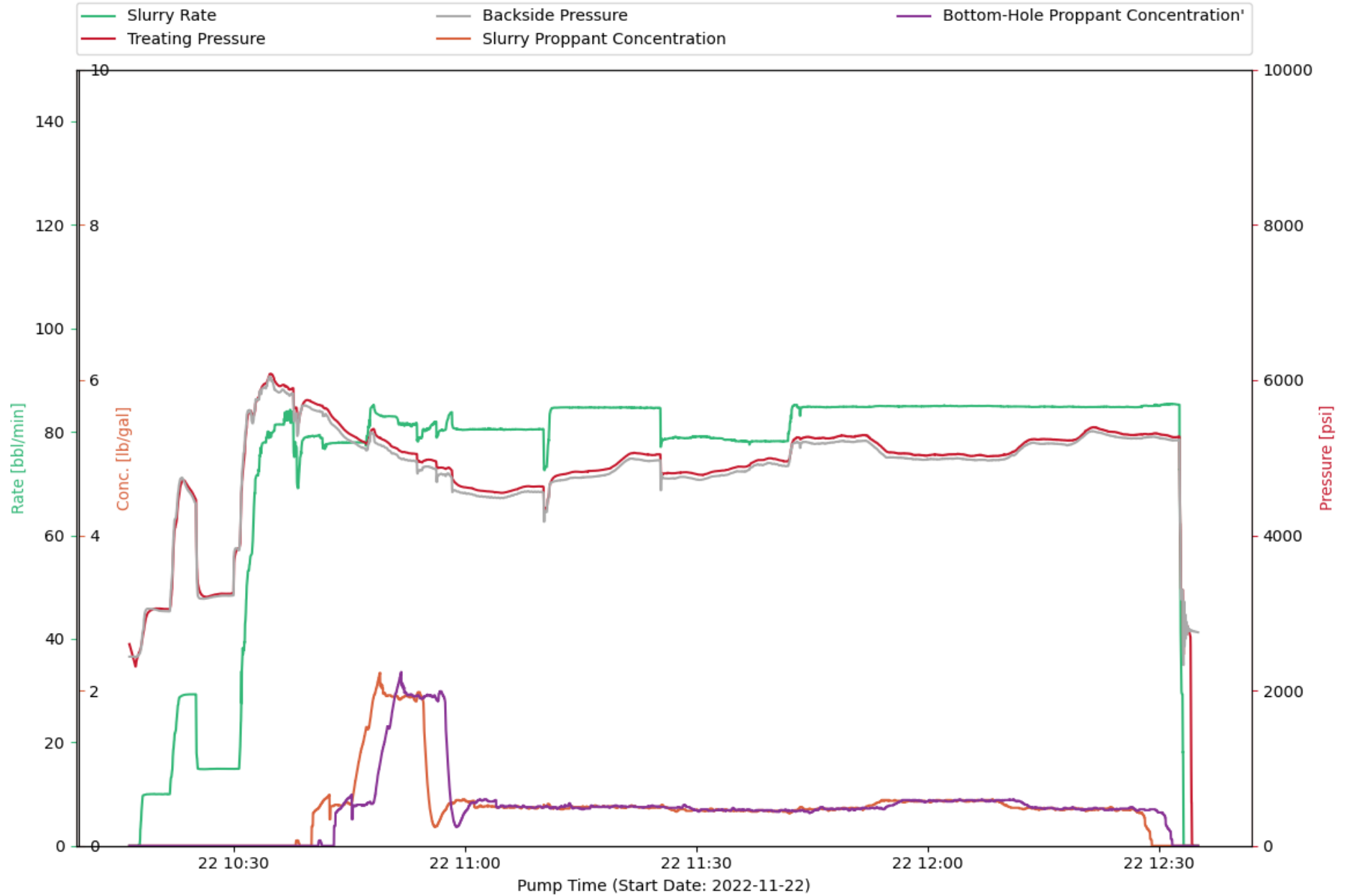
CHEMISTRY PLOT : Treatment Interval 34



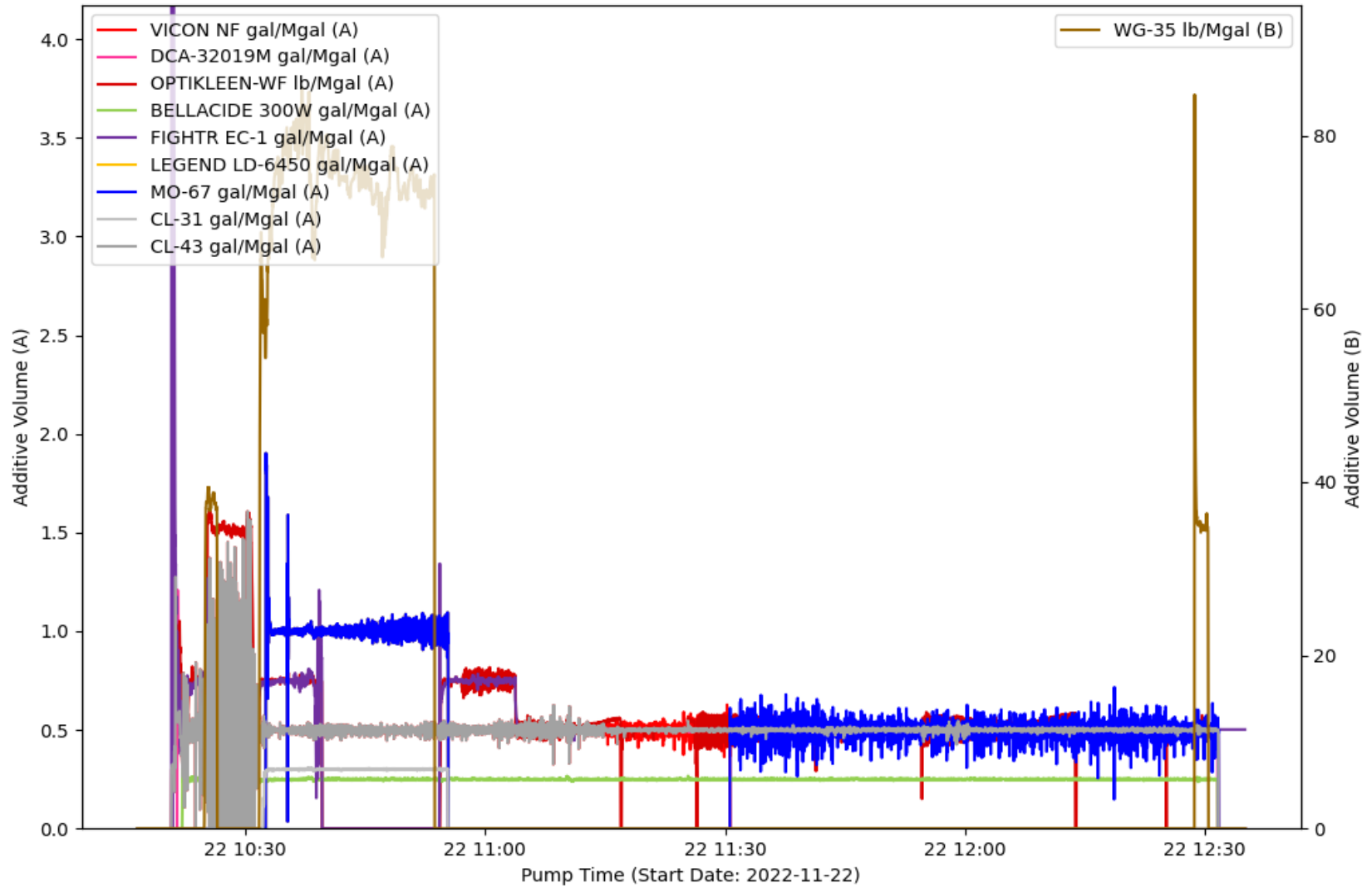
EVENT LOG : TREATMENT INTERVAL 34

Event Number	Event Name	Event Time (YYYY-MM-DD hh-mm-ss)	Slurry Rate (bpm)	Pressure (psi)	Proppant Conc. (ppg)	Bottom Hole Proppant Conc. (ppg)	Cumulative Clean Volume (gal)	Cumulative Slurry Volume (gal)	Cumulative Proppant Weight (lbm)
1	Open Well	2022-11-22T04:00:26	0	2532	0	0	0	0	0
2	Start Pumping	2022-11-22T04:01:09	0	2519	0	0	0	0	0
3	Pump Acid	2022-11-22T04:03:03	9.88	2712	0	0	636.61	636.64	0
4	Ball on Seat	2022-11-22T04:13:12	14.93	2972	0	0	8897	8897	0
5	Break Formation	2022-11-22T04:14:37	14.91	2977	0	0	9783	9783	0
6	Pump Xlink Pill	2022-11-22T04:19:25	84.79	5246	0	0	23284	23284	0
7	Stop Pumping	2022-11-22T06:13:31	0	2693	0	0	418672	429376	235863
8	ISIP	2022-11-22T06:13:32	0	2858	0	0	418672	429376	235863
9	Shut In Well	2022-11-22T06:14:37	0	2884	0	0	418672	429376	235863

TREATMENT PLOT : Treatment Interval 35



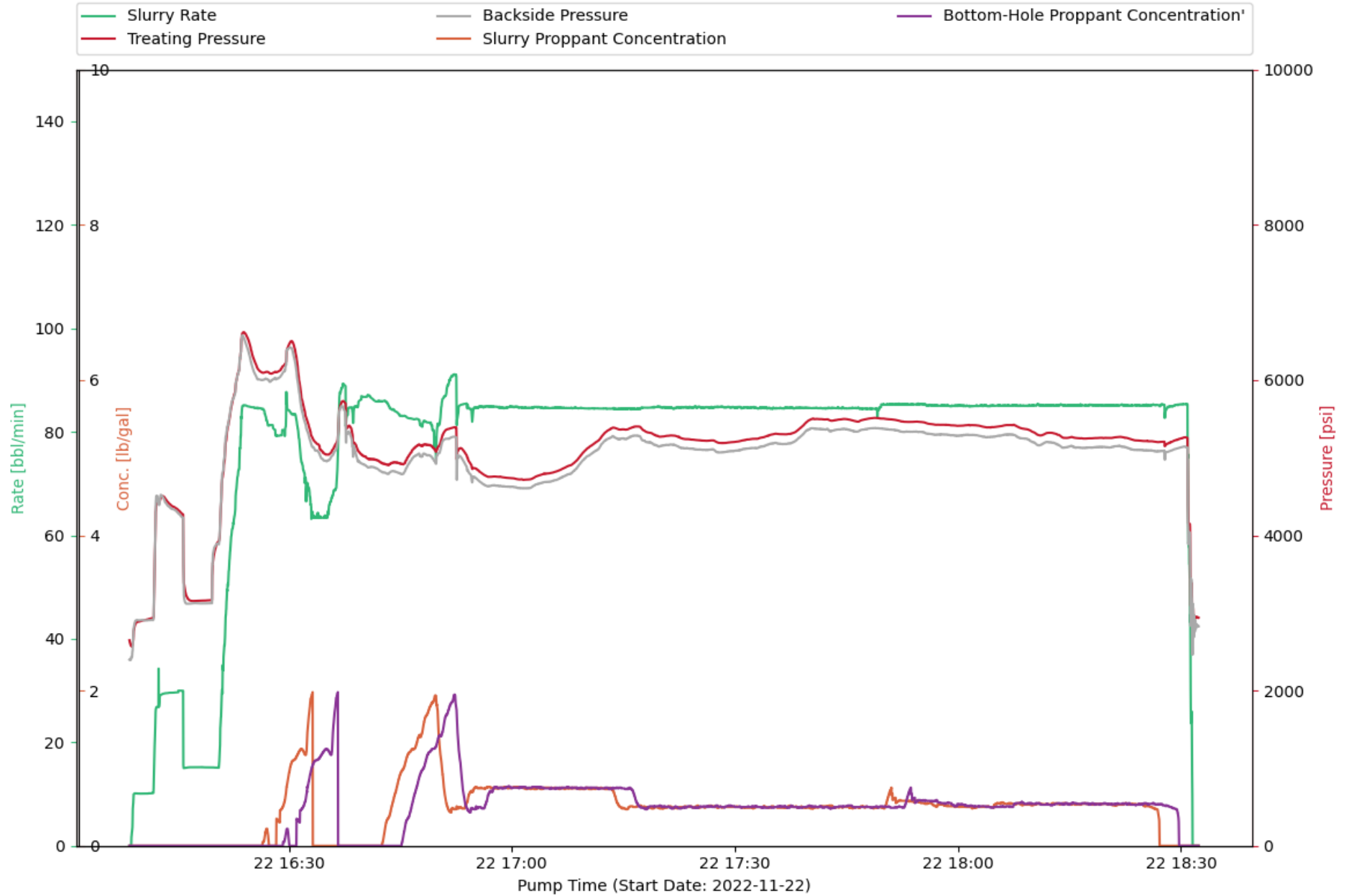
CHEMISTRY PLOT : Treatment Interval 35



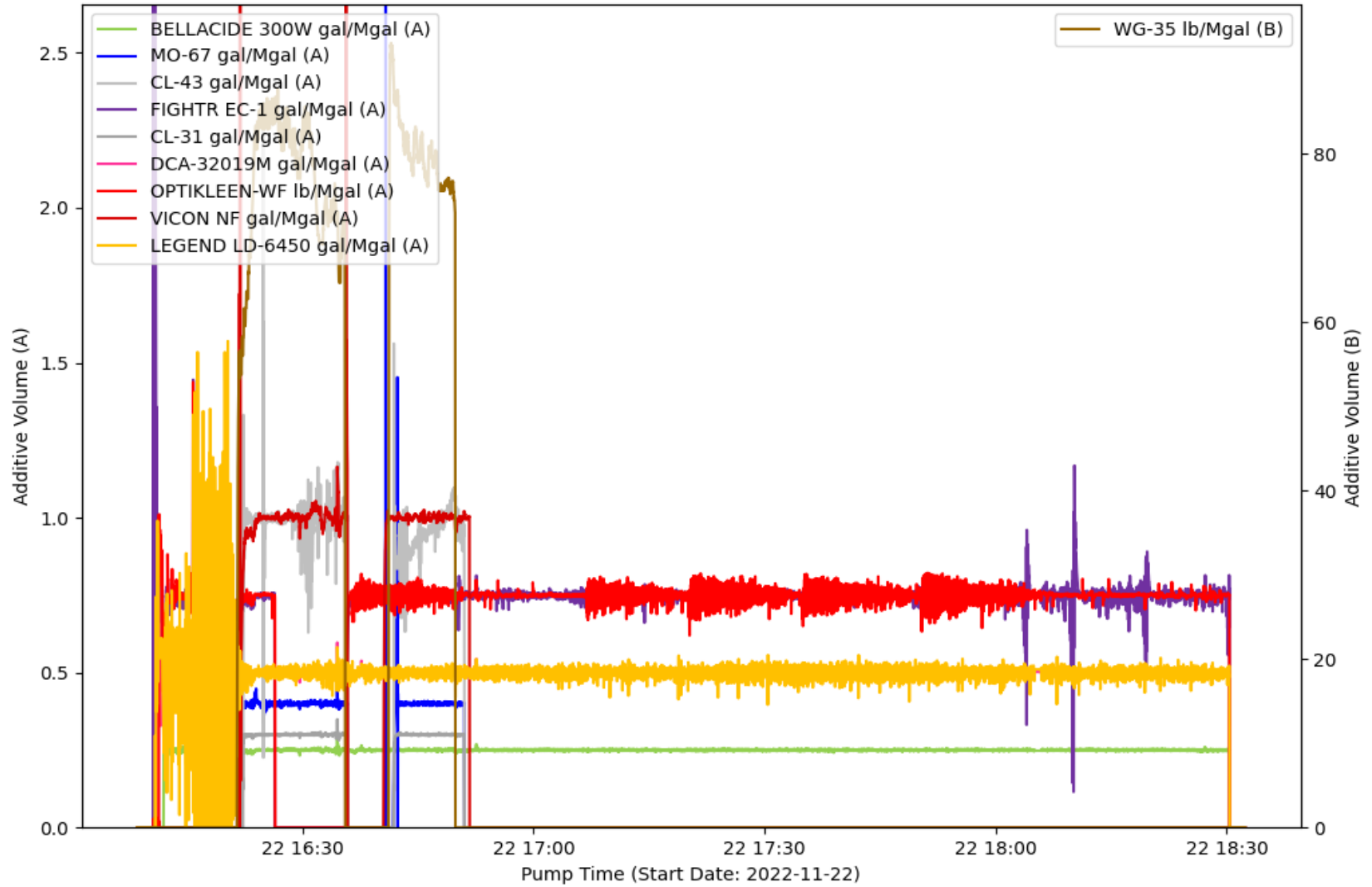
EVENT LOG : TREATMENT INTERVAL 35

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	2022-11-22T10:17:28	0	2412	0	0	0	0	0
2	Start Pumping	2022-11-22T10:17:43	0.01	2487	0	0	0.01	0.01	0
3	Pump Acid	2022-11-22T10:20:00	9.99	3057	0	0	849.81	849.8	0
4	Start Avg Trt 35	2022-11-22T10:23:52	29.23	4661	0	0	3759	3759	0
5	Ball on Seat	2022-11-22T10:29:55	14.89	3253	0	0	8307	8307	0
6	Break Formation	2022-11-22T10:30:26	14.87	3818	0	0	8634	8634	0
7	Pump Xlink Pill	2022-11-22T10:32:45	68.12	5602	0	0	12786	12786	0
8	Stop Pumping	2022-11-22T12:33:09	8.1	2473	0	0	418536	428539	220405
9	ISIP	2022-11-22T12:33:12	0	2763	0	0	418536	428539	220405
10	Shut In Well	2022-11-22T12:34:03	0	2698	0	0	418536	428539	220405

TREATMENT PLOT : Treatment Interval 36



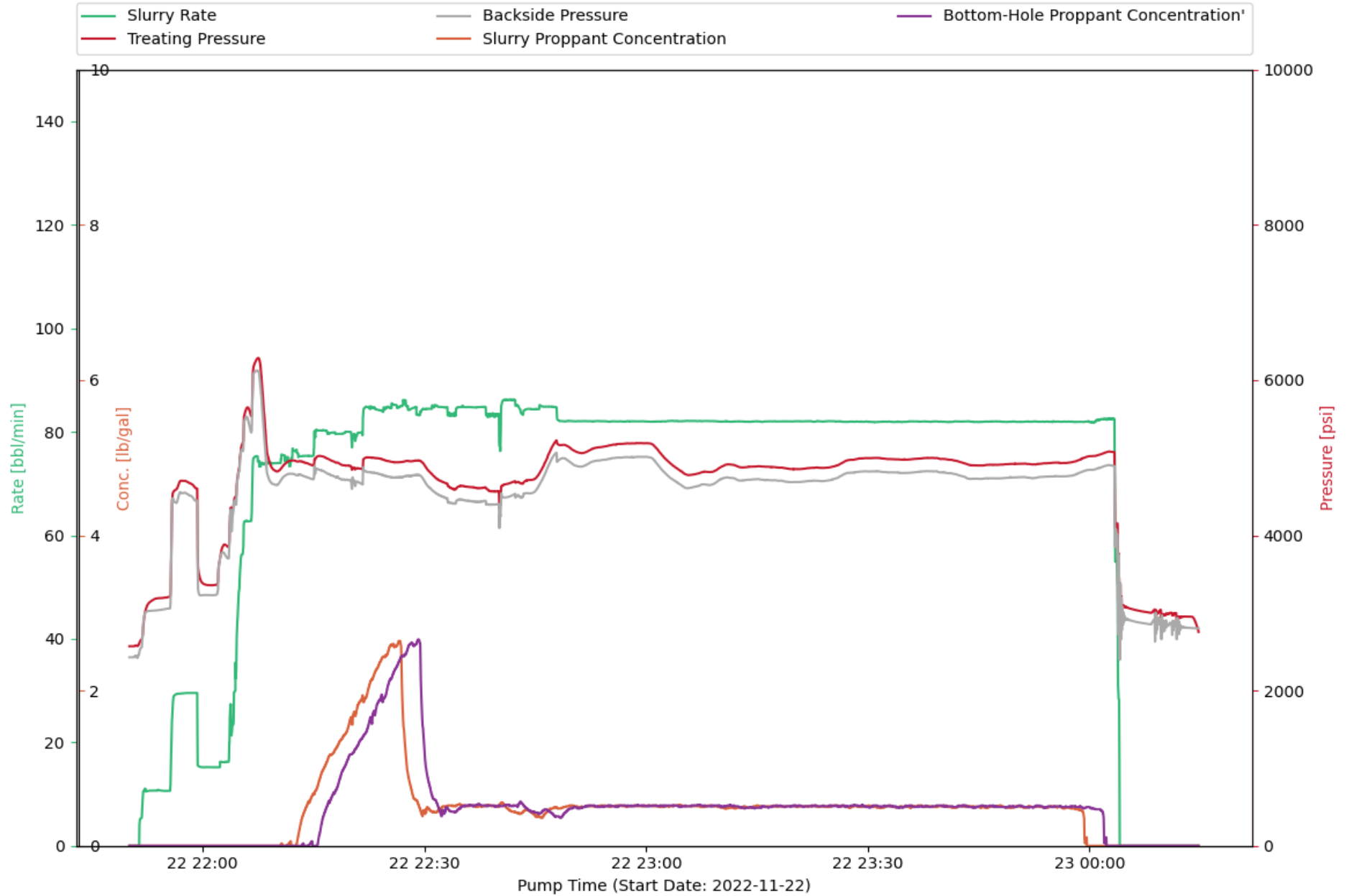
CHEMISTRY PLOT : Treatment Interval 36



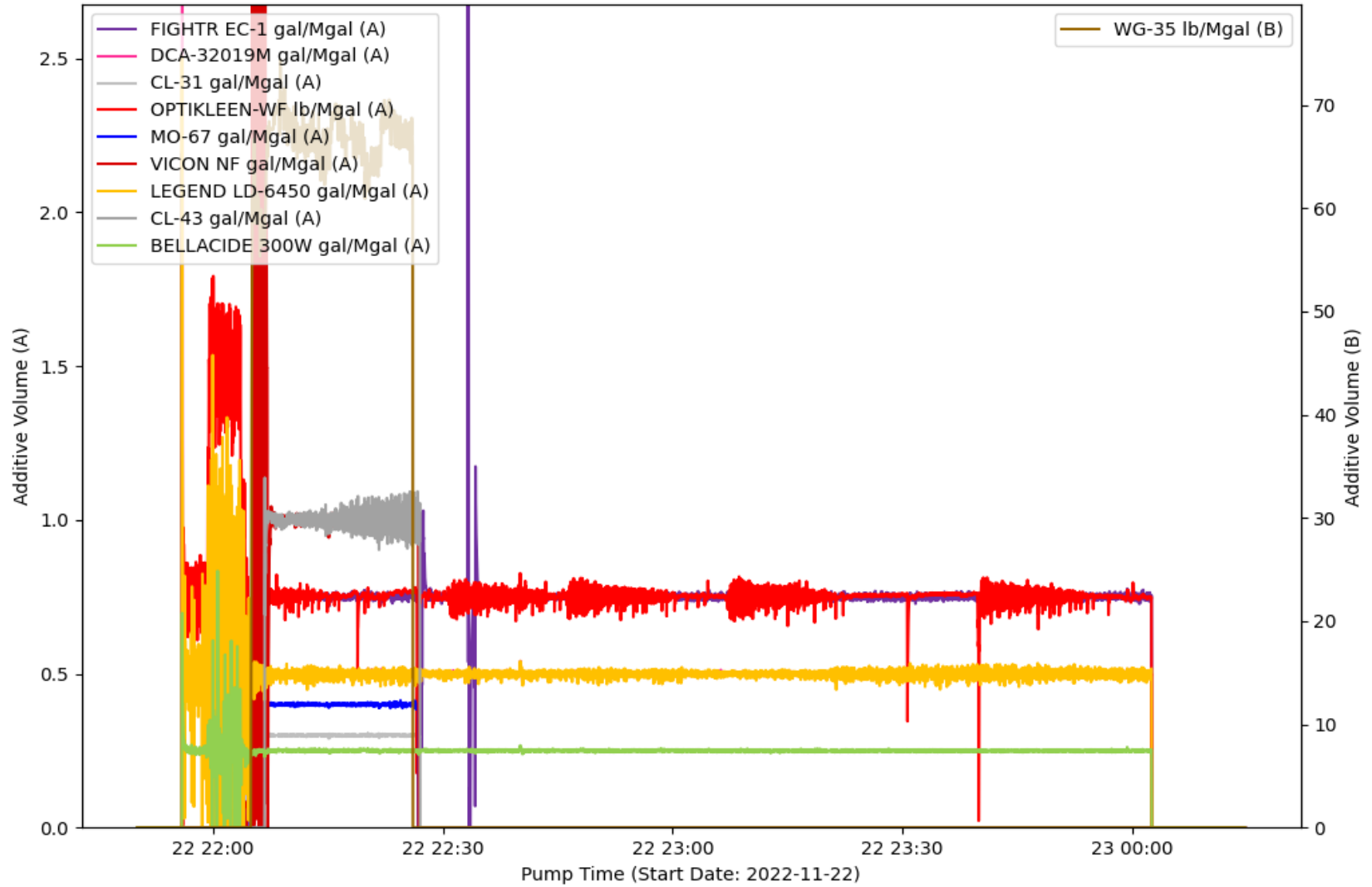
EVENT LOG : TREATMENT INTERVAL 36

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	2022-11-22T16:08:36	0	2632	0	0	0	0	0
2	Start Pumping	2022-11-22T16:08:47	0	2578	0	0	0	0	0
3	Pump Acid	2022-11-22T16:09:58	10.09	2890	0	0	423.76	423.73	0
4	Ball on Seat	2022-11-22T16:19:39	15.15	3165	0	0	8451	8451	0
5	Break Formation	2022-11-22T16:20:15	15.11	3874	0	0	8825	8825	0
6	Pump Xlink Pill	2022-11-22T16:23:00	69.86	6009	0	0	13883	13883	0
7	Stop Pumping	2022-11-22T18:31:35	0	2768	0	0	455227	465858	234275
8	ISIP	2022-11-22T18:31:44	0	2893	0	0	455227	465858	234275
9	Shut In Well	2022-11-22T18:32:20	0	2941	0	0	455227	465858	234275

TREATMENT PLOT : Treatment Interval 37



CHEMISTRY PLOT : Treatment Interval 37



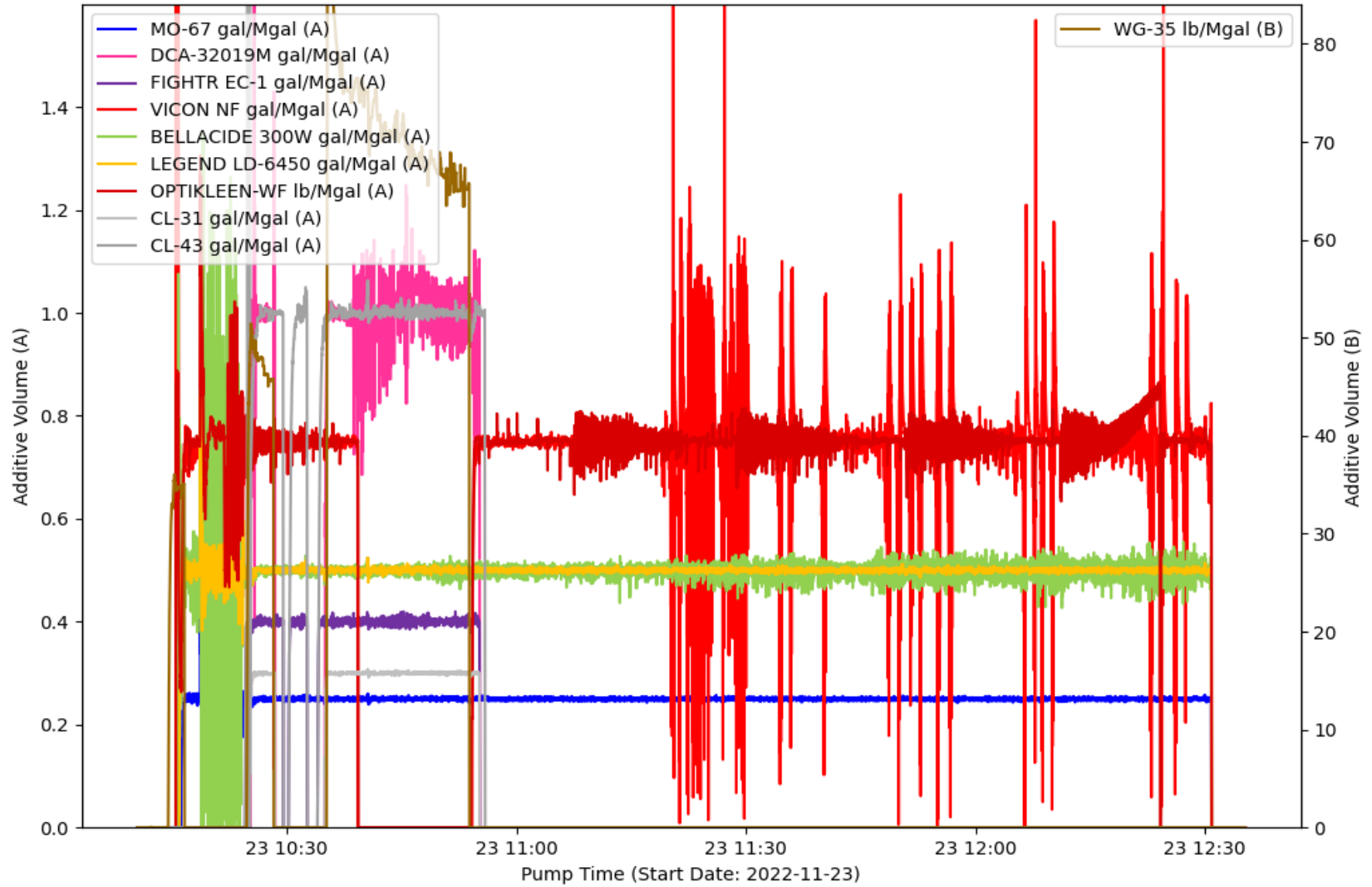
EVENT LOG : TREATMENT INTERVAL 37

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	Open Well	2022-11-22T21:50:07	0	2571	0	0	0	0	0
2	Start Pumping	2022-11-22T21:51:11	0	2574	0	0	0	0	0
3	Pump Acid	2022-11-22T21:53:18	10.66	3170	0	0	750.95	750.91	0
4	Ball on Seat	2022-11-22T22:01:58	15.18	3372	0	0	7906	7906	0
5	Break Formation	2022-11-22T22:02:28	16.23	3774	0	0	8223	8223	0
6	Pump Xlink Pill	2022-11-22T22:08:44	73.85	5050	0	0	21628	21628	0
7	Stop Pumping	2022-11-23T00:04:05	0	2823	0	0	407740	418169	229769
8	ISIP	2022-11-23T00:04:09	0	3190	0	0	407740	418169	229769
9	Shut In Well	2022-11-23T00:14:44	0	2771	0	0	407740	418169	229769

TREATMENT PLOT : Treatment Interval 38



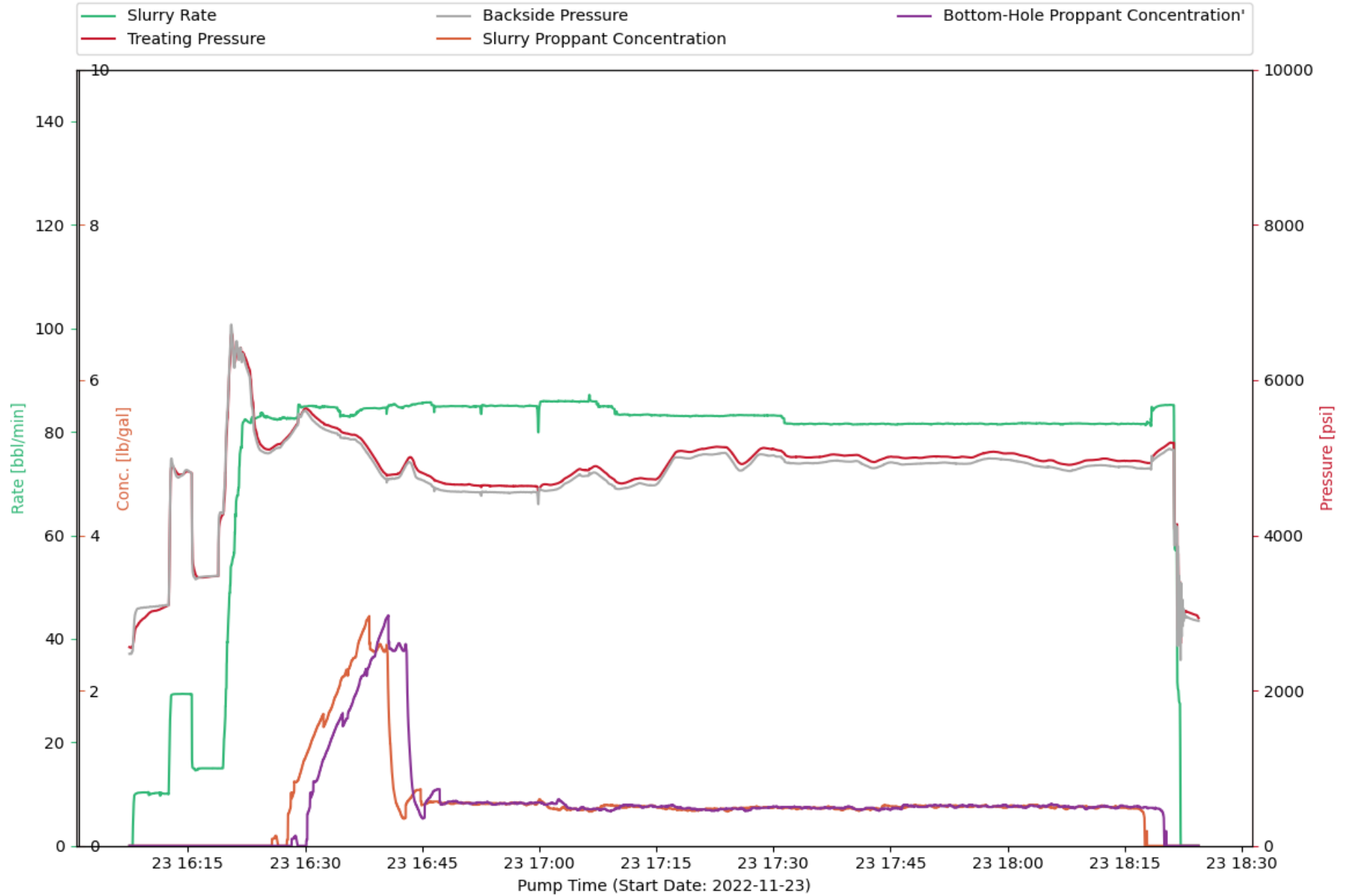
CHEMISTRY PLOT : Treatment Interval 38



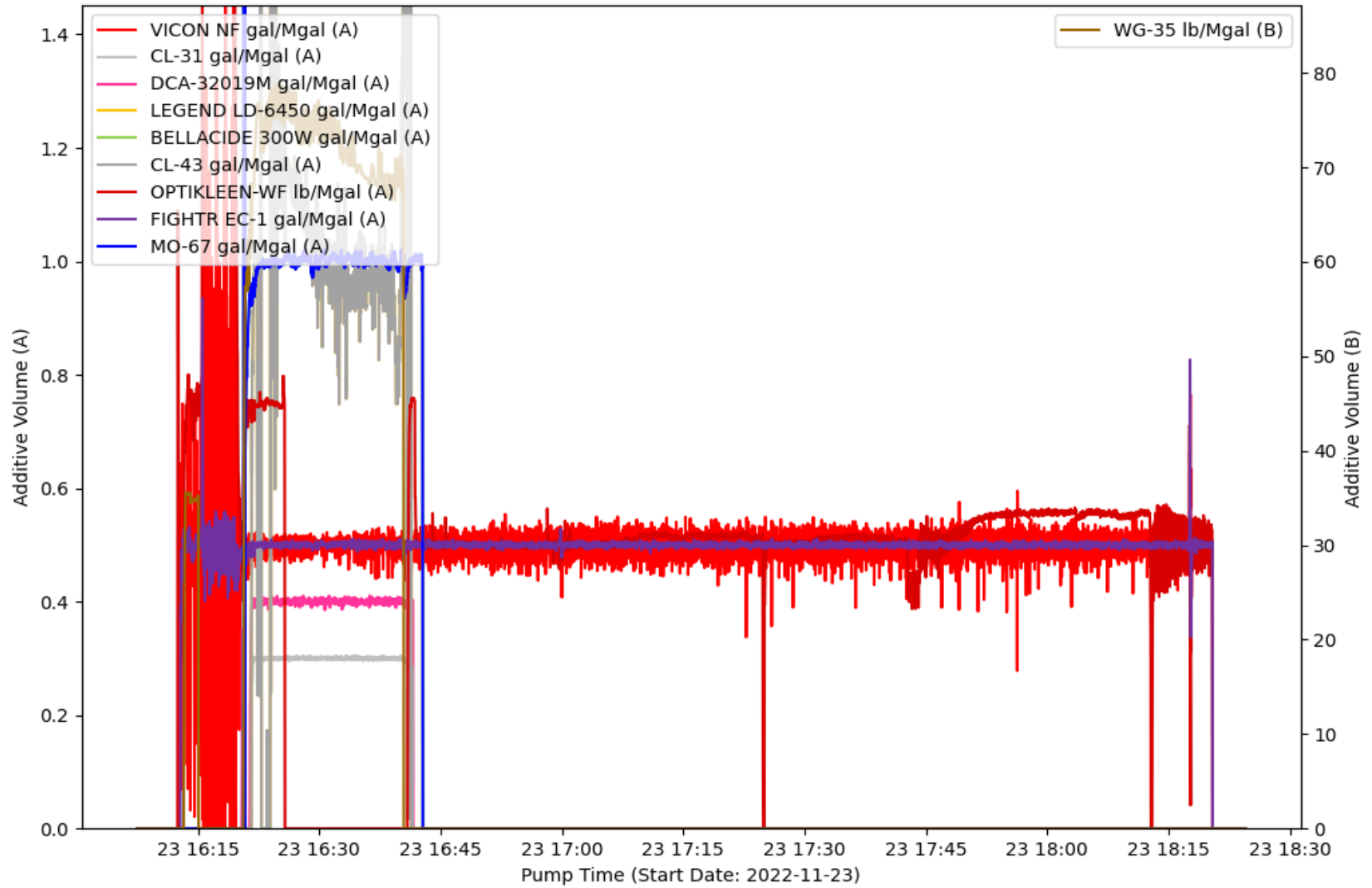
EVENT LOG : TREATMENT INTERVAL 38

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	Start Avg Trt 38	2022-11-23T10:11:02	0	2989	0	0	0	0	0
2	Open Well	2022-11-23T10:11:19	0	2500	0	0	0	0	0
3	Start Pumping	2022-11-23T10:11:29	0	2480	0	0	0	0	0
4	Pump Acid	2022-11-23T10:13:23	10.55	2798	0	0	798.24	798.24	0
5	Ball on Seat	2022-11-23T10:22:43	15.47	3338	0	0	8102	8122	432.88
6	Break Formation	2022-11-23T10:23:37	15.39	3989	0	0	8691	8711	432.88
7	Pump Xlink Pill	2022-11-23T10:36:59	85.37	5106	0	0	52681	52701	432.88
8	Stop Pumping	2022-11-23T12:32:21	4.82	2841	0	0	452409	464070	256910
9	ISIP	2022-11-23T12:32:24	0	3050	0	0	452409	464070	256910
10	Shut In Well	2022-11-23T12:33:15	0	2918	0	0	452409	464070	256910

TREATMENT PLOT : Treatment Interval 39



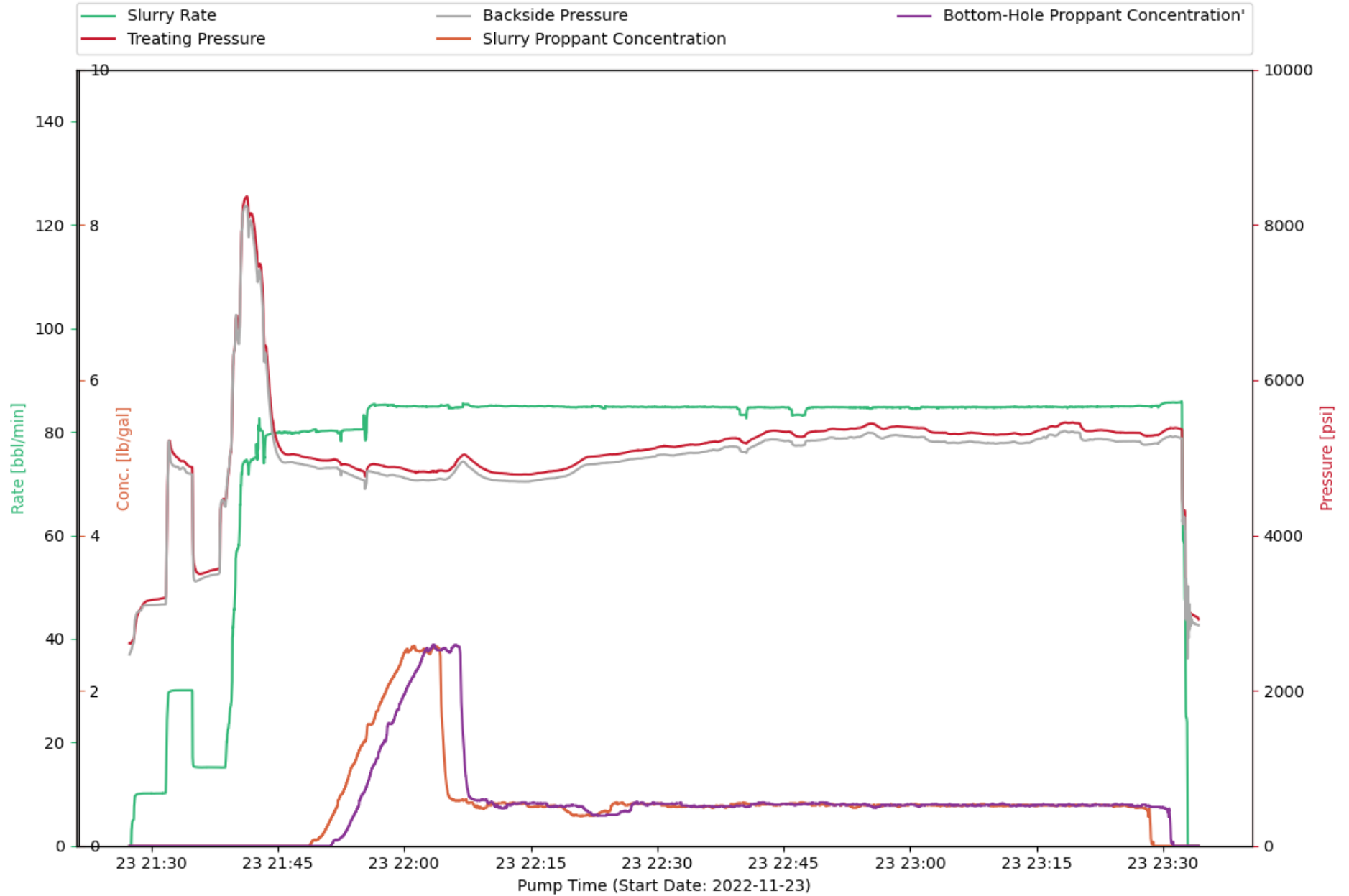
CHEMISTRY PLOT : Treatment Interval 39



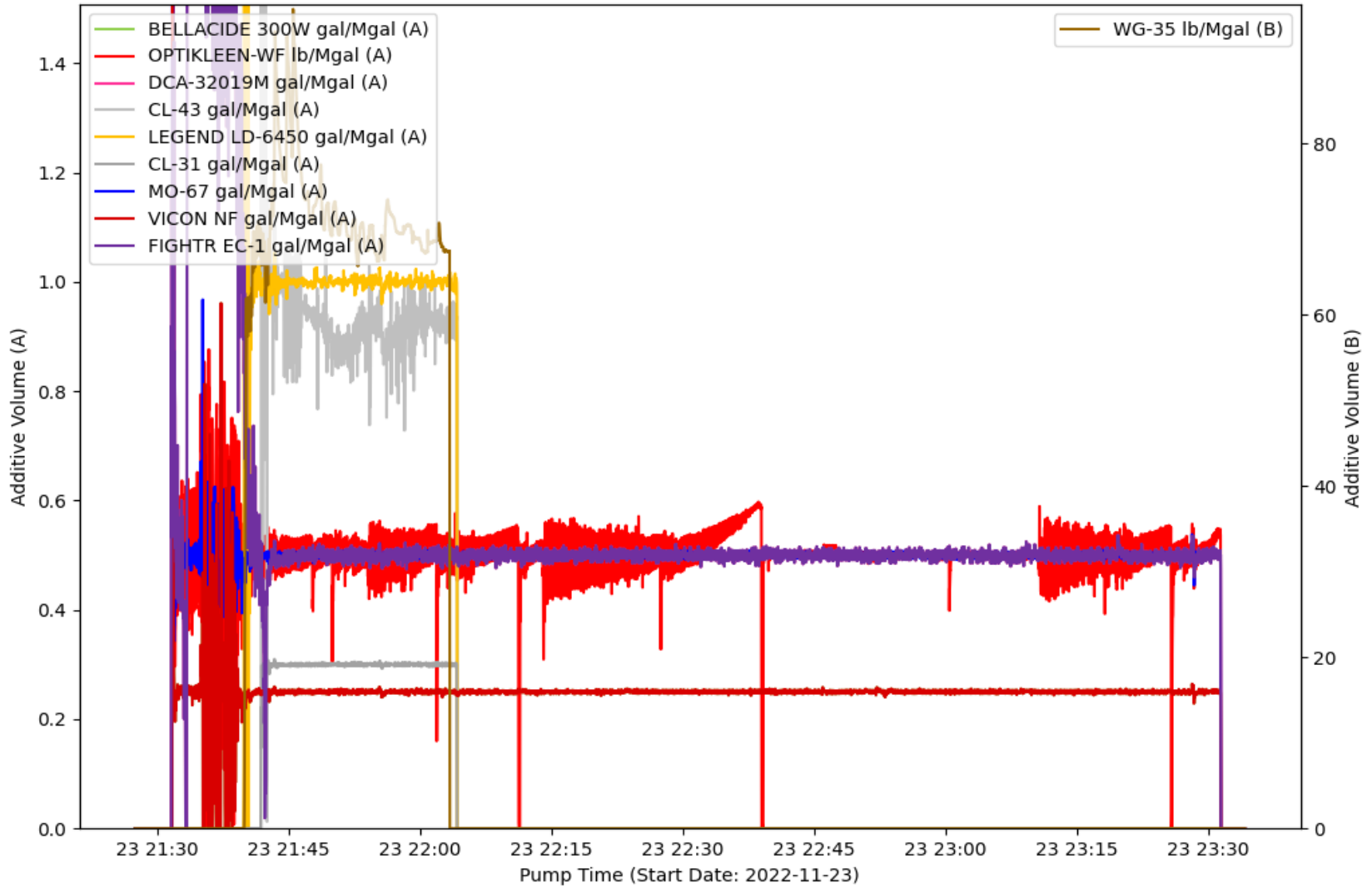
EVENT LOG : TREATMENT INTERVAL 39

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	2022-11-23T16:07:32	0	2557	0	0	0	0	0
2	Start Pumping	2022-11-23T16:07:53	0	2566	0	0	0	0	0
3	Pump Acid	2022-11-23T16:09:24	10.33	2934	0	0	608.78	608.78	0
4	Ball on Seat	2022-11-23T16:18:26	14.97	3474	0	0	7343	7343	0
5	Break Formation	2022-11-23T16:19:17	14.93	4242	0	0	7883	7883	0
6	Pump Xlink Pill	2022-11-23T16:22:24	82.33	6276	0	0	15101	15101	0
7	Stop Pumping	2022-11-23T18:22:11	0	2667	0	0	420742	431964	247271
8	ISIP	2022-11-23T18:22:13	0	3219	0	0	420742	431964	247271
9	Shut In Well	2022-11-23T18:24:26	0	2940	0	0	420742	431964	247271

TREATMENT PLOT : Treatment Interval 40



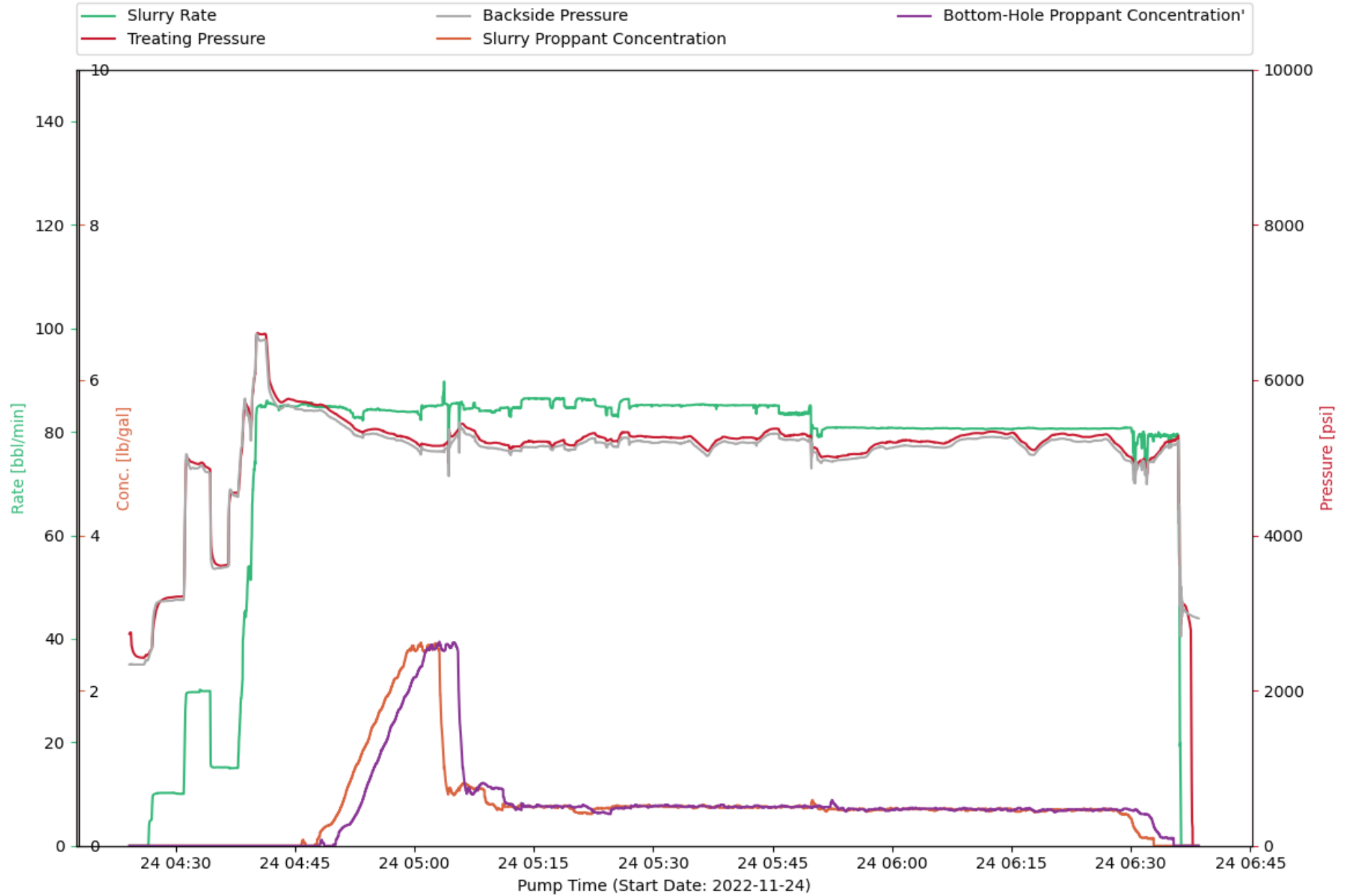
CHEMISTRY PLOT : Treatment Interval 40



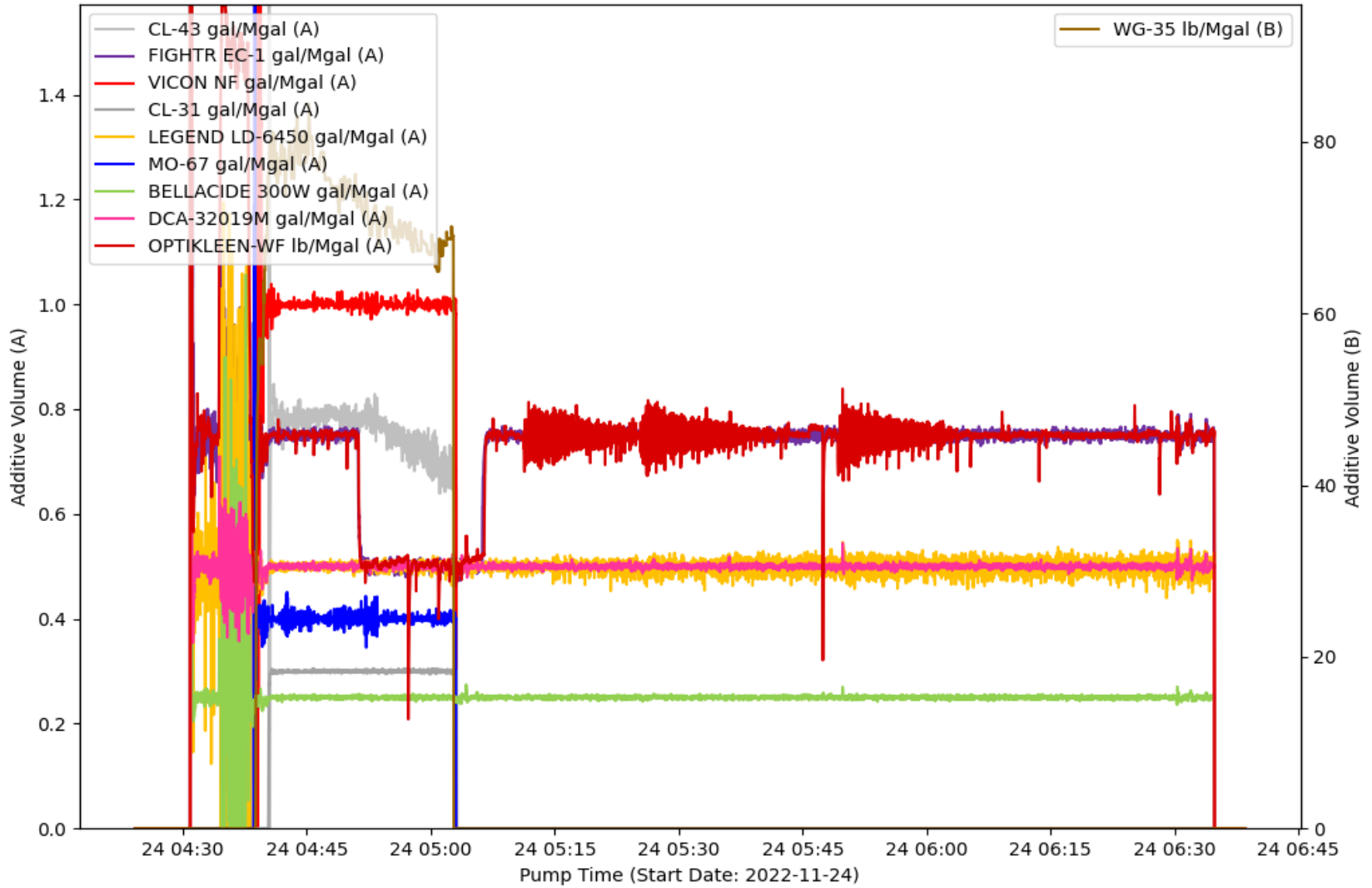
EVENT LOG : TREATMENT INTERVAL 40

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	2022-11-23T21:27:27	0	2610	0	0	0	0	0
2	Start Pumping	2022-11-23T21:27:33	0	2606	0	0	0	0	0
3	Pump Acid	2022-11-23T21:29:01	10.14	3109	0	0	506.88	506.88	0
4	Ball on Seat	2022-11-23T21:37:42	15.18	3561	0	0	7357	7357	0
5	Break Formation	2022-11-23T21:38:10	15.17	3987	0	0	7646	7646	0
6	Pump Xlink Pill	2022-11-23T21:47:41	79.96	5024	0	0	34278	34278	0
7	Stop Pumping	2022-11-23T23:32:56	0	2689	0	0	396075	406533	230453
8	ISIP	2022-11-23T23:32:57	0	2834	0	0	396075	406533	230453
9	Shut In Well	2022-11-23T23:34:11	0	2930	0	0	396075	406533	230453

TREATMENT PLOT : Treatment Interval 41



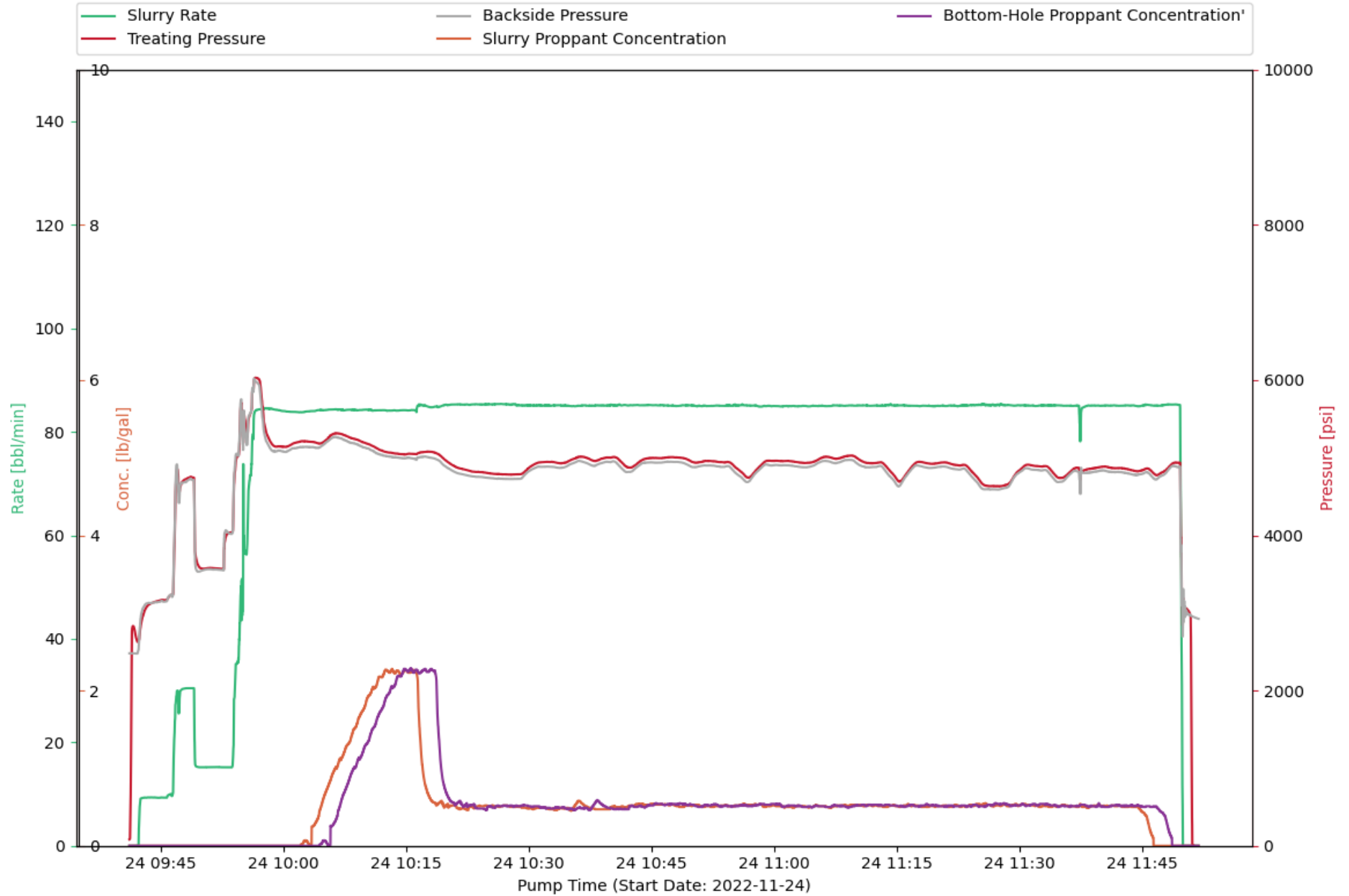
CHEMISTRY PLOT : Treatment Interval 41



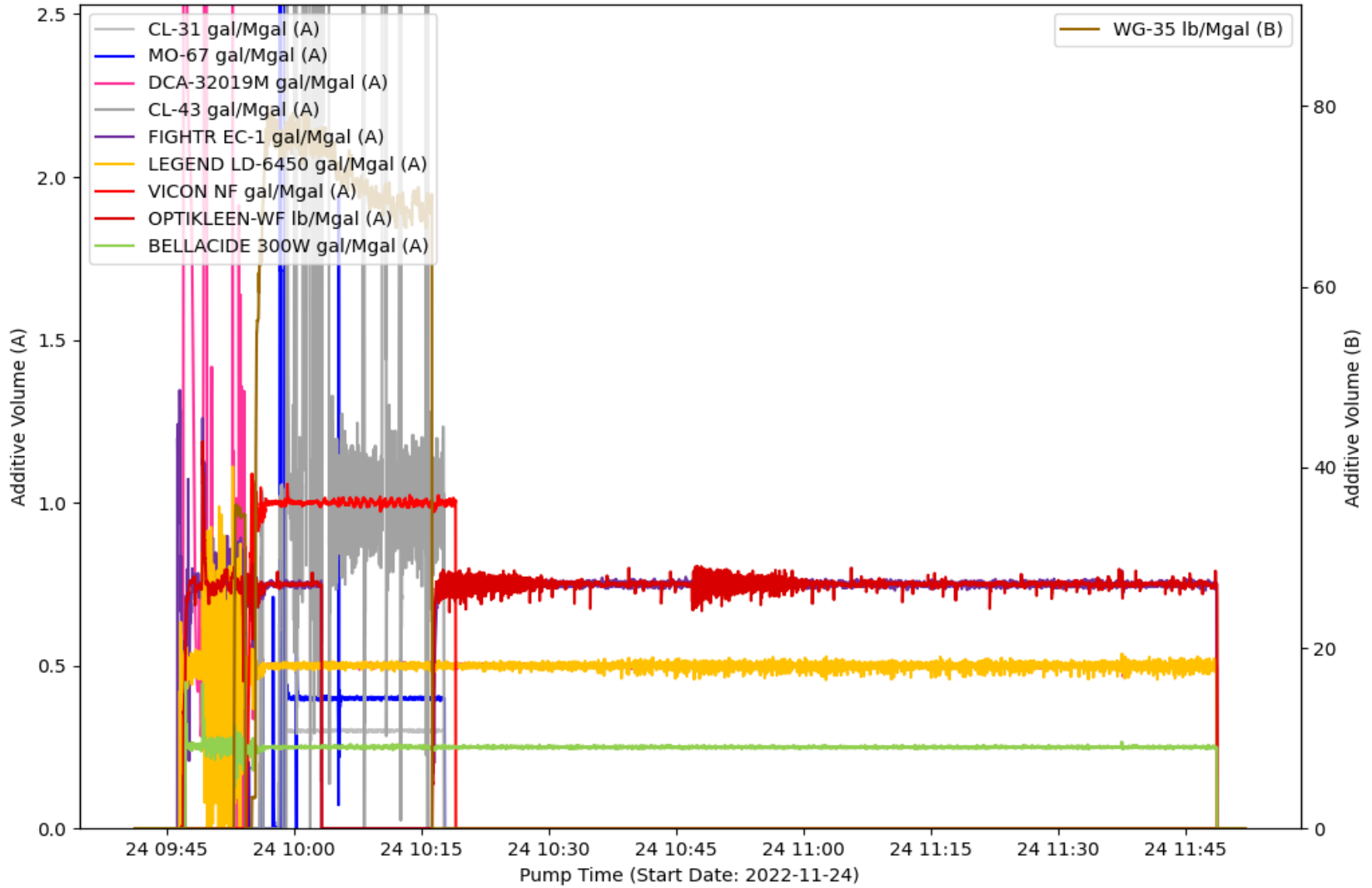
EVENT LOG : TREATMENT INTERVAL 41

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	2022-11-24T04:25:13	0	2435	0	0	0	0	0
2	Start Pumping	2022-11-24T04:26:18	0	2459	0	0	0	0	0
3	Pump Acid	2022-11-24T04:28:27	10.24	3174	0	0	676.56	676.57	0
4	Ball on Seat	2022-11-24T04:36:28	15.18	3619	0	0	7197	7197	0
5	Break Formation	2022-11-24T04:36:52	14.98	4505	0	0	7454	7454	0
6	Stop Pumping	2022-11-24T06:36:19	0	3112	0	0	407028	417392	228376
7	ISIP	2022-11-24T06:36:19	0	3112	0	0	407028	417392	228376
8	Shut In Well	2022-11-24T06:37:30	0	2801	0	0	407028	417392	228376

TREATMENT PLOT : Treatment Interval 42



CHEMISTRY PLOT : Treatment Interval 42



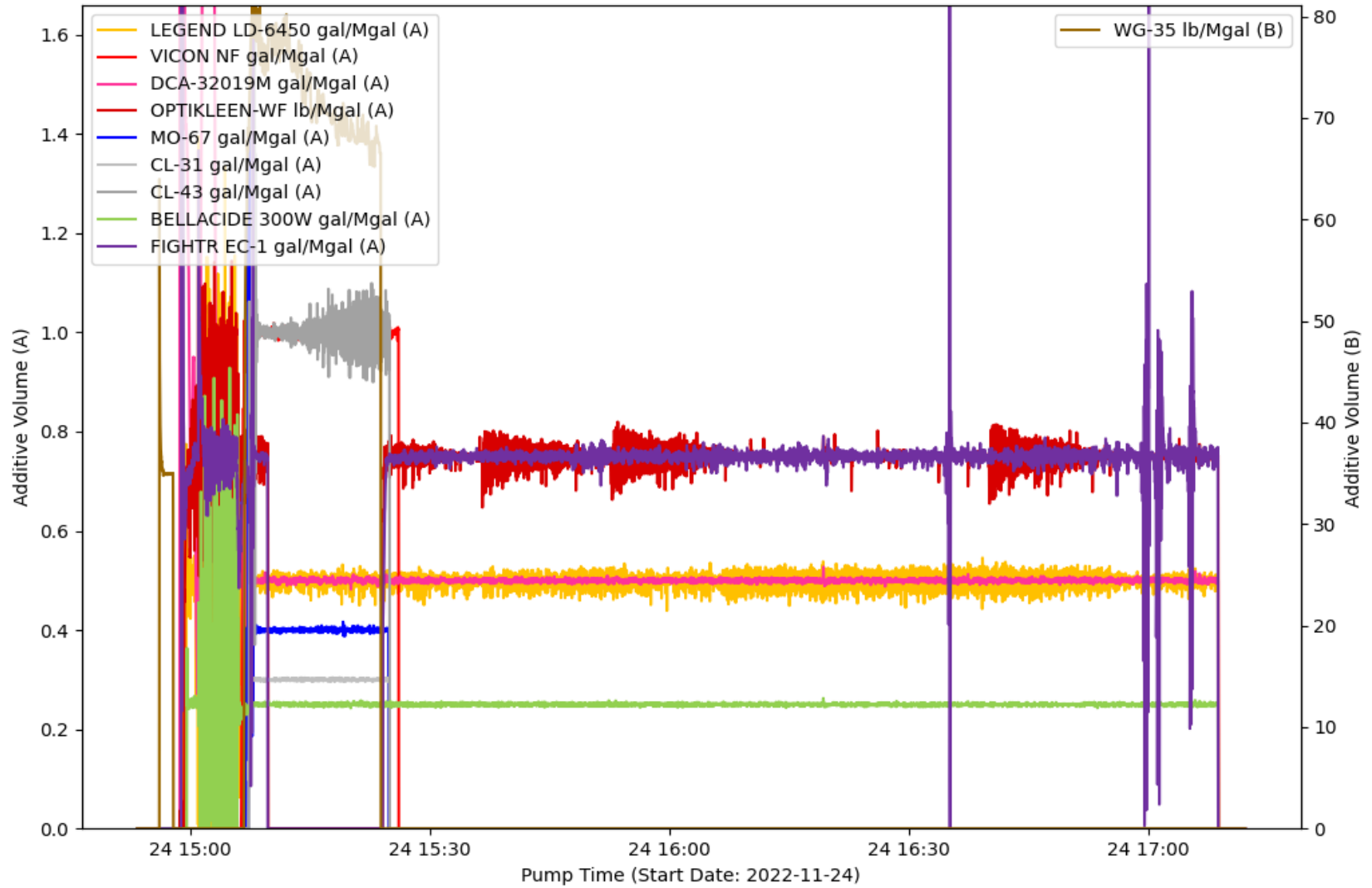
EVENT LOG : TREATMENT INTERVAL 42

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	2022-11-24T09:42:13	0	2627	0	0	0	0	0
2	Start Pumping	2022-11-24T09:42:19	0.01	2626	0	0	0.01	0.01	0
3	Pump Acid	2022-11-24T09:44:17	9.36	3142	0	0	737.58	737.56	0
4	Ball on Seat	2022-11-24T09:52:42	15.16	3566	0	0	7073	7073	0
5	Break Formation	2022-11-24T09:53:47	15.34	4044	0	0	7760	7760	0
6	Pump Xlink Pill	2022-11-24T09:58:11	84.51	5262	0	0	19718	19718	0
7	Stop Pumping	2022-11-24T11:49:59	0.92	2843	0	0	407530	417970	229982
8	ISIP	2022-11-24T11:50:00	0	2966	0	0	407530	417970	229982
9	Shut In Well	2022-11-24T11:50:55	0	2965	0	0	407530	417970	229982

TREATMENT PLOT : Treatment Interval 43



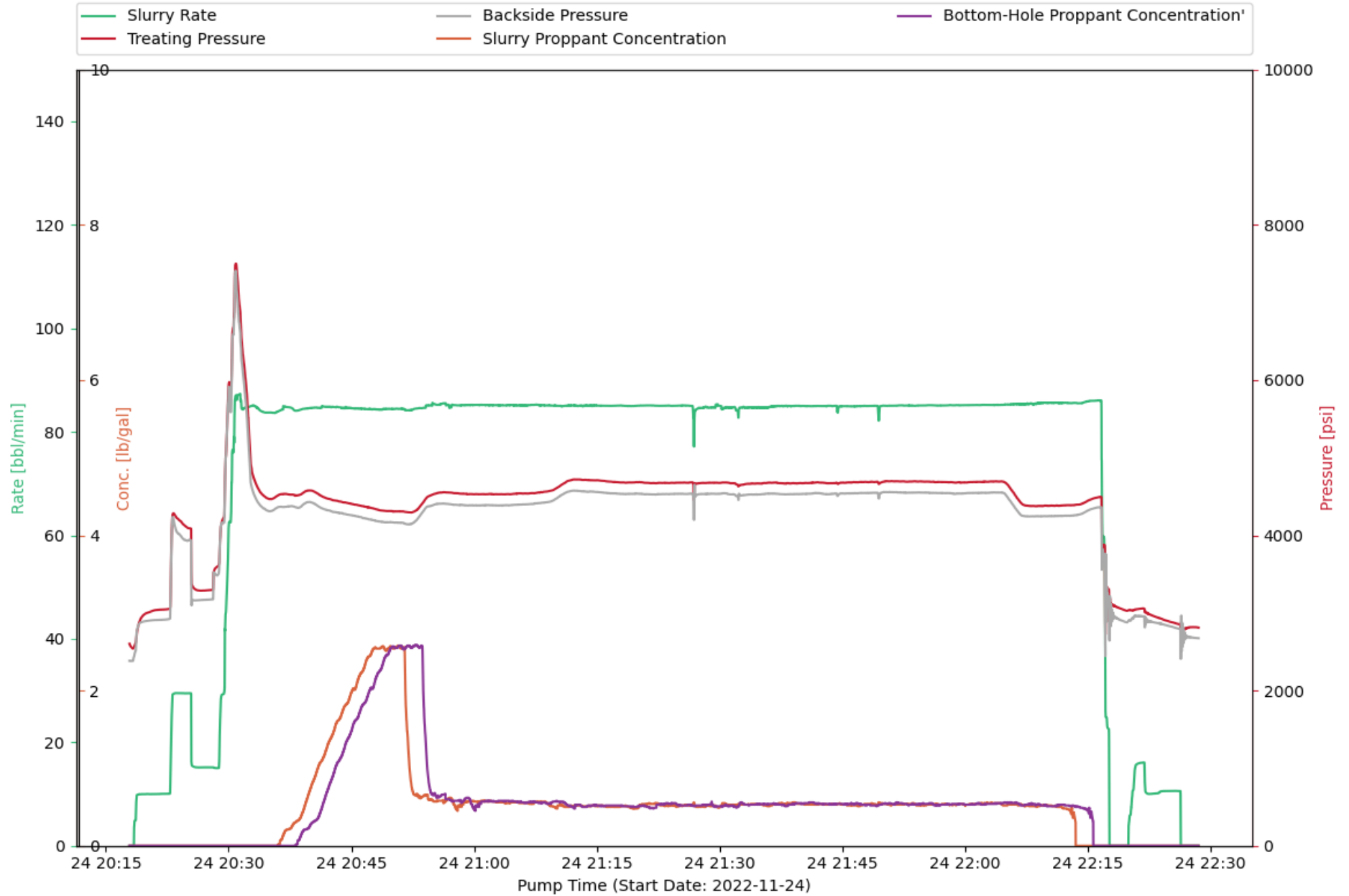
CHEMISTRY PLOT : Treatment Interval 43



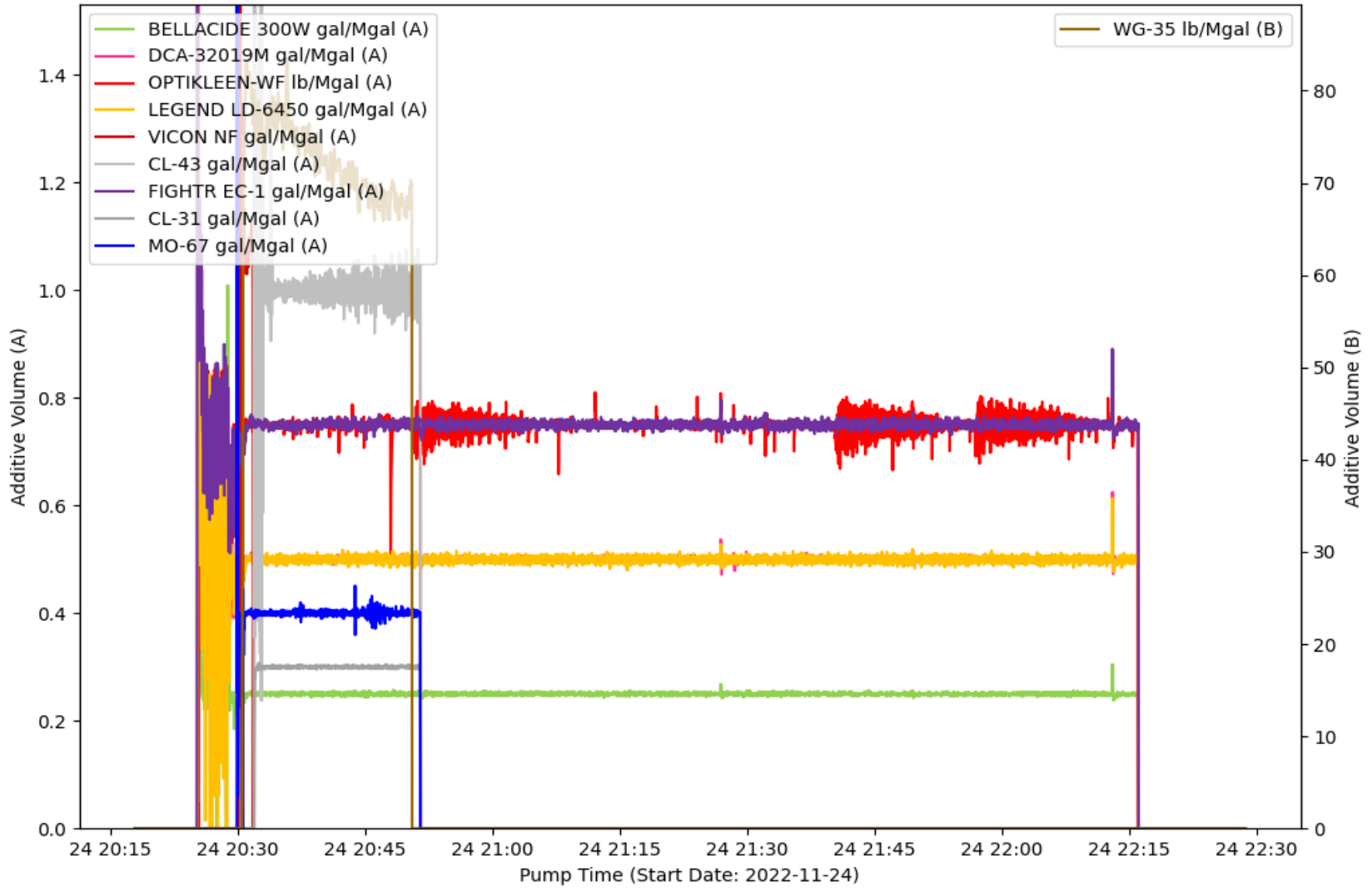
EVENT LOG : TREATMENT INTERVAL 43

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	Open Well	2022-11-24T14:54:23	0	2489	0	0	0	0	0
2	Start Pumping	2022-11-24T14:54:33	0	2517	0	0	0.03	0.03	0
3	Pump Acid	2022-11-24T14:57:00	10.24	3087	0	0	993.47	993.54	0
4	Ball on Seat	2022-11-24T15:05:12	15.24	3219	0	0	6909	6910	0
5	Break Formation	2022-11-24T15:05:45	15.24	3604	0	0	7265	7265	0
6	Pump Xlink Pill	2022-11-24T15:07:24	79.45	6364	0	0	10700	10700	0
7	Stop Pumping	2022-11-24T17:10:10	0.8	2783	0	0	436221	447633	251451
8	ISIP	2022-11-24T17:10:11	0	3021	0	0	436221	447633	251451
9	Shut In Well	2022-11-24T17:11:10	0	2839	0	0	436221	447633	251451

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	Open Well	2022-11-24T20:17:55	0	2593	0	0	0	0	0
2	Start Avg Trt 44	2022-11-24T20:18:10	0	2553	0	0	0	0	0
3	Start Pumping	2022-11-24T20:18:21	0	2545	0	0	0	0	0
4	Pump Acid	2022-11-24T20:20:17	9.99	3011	0	0	720.7	720.75	0
5	Ball on Seat	2022-11-24T20:28:00	15.16	3297	0	0	6534	6534	0
6	Break Formation	2022-11-24T20:28:08	15.16	3357	0	0	6620	6620	0
7	Stop Pumping	2022-11-24T22:17:43	0	2914	0	0	380297	390870	232926
8	ISIP	2022-11-24T22:17:43	0	2914	0	0	380297	390870	232926
9	Shut In Well	2022-11-24T22:28:33	0	2812	0	0	383304	393876	232926

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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