

End of Well - Post Job Report

Cub Creek Energy, LLC
Knight
Knight 12
05123479050000

Niobrara B
Total Stages: 63
Treated Lateral: 7,254 (ft) - 18,096 (ft)
County: Weld
State: Colorado

For: Garrett Baily
Completion Date: September 06, 2021

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Well Information

Customer Information

Customer Name	Cub Creek Energy, LLC
Address	200 Plaza Dr, Highlands Ranch, CO 80129
Contact Name	Garrett Baily
Contact Title	Petroleum Engineer
Contact Number	303-681-8424
Contact Email	Garrett.Baily@cub-creek.com

NexTier Service Information

District	West
Corporate Address	3990 Rogerdale Rd, Houston, TX 77042
Sales Contact	Tony Farrell
Contact Number	814-558-3867
Contact Email	Tony.Farrell@NexTierOFS.com

Well Information

Pad Name	Knight
Well Name	Knight 12
State	Colorado
County	Weld
Formation	Niobrara B
API	05123479050000
AFE	121012D
X-Coordinate	-105.041960
Y-Coordinate	40.197590
Stages	63
Measured Depth (ft)	18,128

Treatment Summary

Completion Summary

Total Stages	63
Completion Start Date	August 15, 2021
Completion End Date	September 06, 2021

Well Rates, Pressures, and TVDs

Average Treating Pressure (psi)	7,311
Max Treating Pressure (psi)	8,940
Average Slurry Rate (bpm)	118.0
Max Slurry Rate (bpm)	124.9
Average TVD (ft)	6,659
Max TVD (ft)	6,776

Proppant Summary (lbs)

40/70 Mesh	17,573,184
Total Proppant	17,573,184

Fluid Summary (bbls)

7.5% HCL	172
SLICKWATER	475,095
Pumpdown	26,376
Total	501,643

Fuel Summary

Dyed Fuel (gal)	89,768
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Chemical Summary

7.5% HCL	3,287
NHV-33	16,999
NCS-17	9,639
BioSuite-GQ510X	4,866

Treatment Detail

Stage #	Avg. Rate	Max Rate	Avg. Pressure	Max Press.	HHP	ISIP	Frac. Grad.	TVD	Break Pressure	Pump Time	Clean Design Vol.	Clean Vol.
	bpm	bpm	psi	psi	hp	psi	psi/ft	ft	psi	hours	bbbls	bbbls
1	110.4	111.8	7,047	7,358	19,054	3,502	0.959	6,661	4,200	5.30	7,980	9,701
2	97.8	102.9	6,106	6,526	14,633	3,658	0.983	6,659	4,011	1.68	7,976	8,073
3	98.3	110.6	6,234	6,933	15,032	3,663	0.984	6,651	3,897	1.82	7,972	8,542
4	110.5	114.4	6,812	6,992	18,423	3,745	0.997	6,642	4,699	1.63	7,968	8,319
5	109.2	116.7	6,639	6,879	17,747	3,830	1.011	6,633	3,715	1.69	7,964	8,429
6	118.2	124.9	7,170	7,668	20,761	4,000	1.037	6,627	5,021	1.16	7,710	7,430
7	109.1	114.0	6,742	7,102	18,004	3,989	1.036	6,622	6,246	1.26	7,706	7,504
8	113.6	119.9	7,978	8,338	22,196	3,824	1.011	6,616	6,674	1.22	7,702	7,483
9	120.2	121.8	7,460	7,833	21,954	3,876	1.019	6,611	4,307	1.17	7,698	7,537
10	120.2	121.4	8,105	8,461	23,841	3,963	1.033	6,606	4,779	1.15	7,693	7,489
11	120.2	121.8	7,527	8,362	22,159	4,002	1.039	6,601	4,404	1.14	7,689	7,473
12	120.3	124.1	7,569	8,479	22,270	4,388	1.098	6,599	6,208	1.15	7,685	7,436
13	117.0	119.5	7,945	8,386	22,748	4,073	1.050	6,597	7,519	1.23	7,681	7,746
14	119.5	122.2	7,349	7,710	21,498	4,087	1.053	6,597	3,971	1.16	7,677	7,422
15	120.7	122.4	7,879	8,699	23,267	4,249	1.077	6,597	5,769	1.16	7,673	7,707
16	121.7	123.2	7,686	8,124	22,896	4,204	1.070	6,598	4,028	1.13	7,669	7,597
17	120.0	121.8	7,644	8,095	22,463	4,030	1.044	6,597	6,866	1.23	7,665	7,729
18	116.5	119.7	7,898	8,318	22,531	4,087	1.052	6,597	7,276	1.20	7,661	7,518
19	120.3	122.0	7,512	8,131	22,116	3,782	1.006	6,599	5,311	1.16	7,657	7,545
20	120.3	121.4	7,200	7,554	21,209	4,187	1.067	6,605	6,416	1.15	7,653	7,619
21	119.8	122.3	7,985	8,685	23,415	4,095	1.053	6,608	6,800	1.15	7,649	7,599
22	120.1	124.0	7,418	8,165	21,802	4,148	1.060	6,612	4,774	1.18	7,645	7,524
23	120.2	121.6	7,977	8,412	23,465	3,964	1.032	6,614	7,355	1.14	7,641	7,568
24	119.4	123.0	7,975	8,366	23,305	4,046	1.045	6,615	6,778	1.16	7,637	7,443
25	119.7	121.3	8,028	8,340	23,527	3,989	1.036	6,617	4,849	1.18	7,633	7,526
26	119.8	121.5	7,924	8,284	23,247	3,720	0.995	6,619	4,717	1.19	7,628	7,521
27	119.8	123.2	8,131	8,612	23,837	3,638	0.982	6,620	5,464	1.14	7,624	7,535
28	120.1	122.5	8,003	8,580	23,528	3,664	0.986	6,624	4,630	1.14	7,620	7,581
29	120.2	121.2	7,568	8,066	22,263	3,802	1.006	6,629	3,573	1.18	7,616	7,553
30	121.0	122.6	7,821	8,730	23,165	3,718	0.993	6,632	4,965	1.17	7,612	7,550

Treatment Detail

Stage #	Avg. Rate	Max Rate	Avg. Pressure	Max Press.	HHP	ISIP	Frac. Grad.	TVD	Break Pressure	Pump Time	Clean Design Vol.	Clean Vol.
31	120.0	122.4	7,735	8,438	22,719	3,657	0.984	6,638	5,032	1.15	7,608	7,491
32	121.8	122.9	7,714	8,470	22,996	3,807	1.006	6,642	3,629	1.14	7,604	7,536
33	119.5	121.4	7,526	8,146	22,023	3,824	1.008	6,645	4,672	1.16	7,600	7,448
34	119.9	121.5	7,836	8,751	22,998	3,875	1.016	6,648	5,154	1.15	7,596	7,389
35	118.2	121.8	8,058	8,940	23,294	3,798	1.004	6,650	4,460	1.14	7,592	7,397
36	121.0	122.1	7,494	8,085	22,200	3,554	0.967	6,653	3,335	1.13	7,588	7,434
37	120.9	122.1	7,521	7,979	22,256	3,513	0.961	6,657	4,235	1.13	7,584	7,476
38	120.5	121.3	7,472	8,236	22,031	3,434	0.948	6,662	4,599	1.14	7,580	7,558
39	119.4	121.3	7,321	8,165	21,389	3,539	0.964	6,666	5,385	1.23	7,576	7,895
40	119.3	121.1	7,620	8,501	22,241	3,742	0.994	6,666	4,733	1.17	7,572	7,449
41	121.3	122.5	7,116	7,709	21,129	3,410	0.944	6,668	3,485	1.10	7,568	7,395
42	121.0	122.7	7,236	8,049	21,435	3,587	0.971	6,670	5,465	1.12	7,563	7,363
43	120.2	121.5	7,345	8,570	21,610	3,519	0.960	6,673	7,493	1.12	7,559	7,380
44	120.2	121.6	7,372	8,600	21,687	3,511	0.959	6,679	5,102	1.14	7,555	7,459
45	120.5	121.5	6,740	7,444	19,876	3,704	0.987	6,685	4,600	1.13	7,551	7,520
46	121.0	122.3	7,209	7,641	21,358	3,581	0.968	6,688	3,737	1.11	7,547	7,364
47	119.4	120.5	6,925	8,153	20,242	3,611	0.973	6,691	3,713	1.14	7,543	7,516
48	119.6	121.1	7,069	8,389	20,695	3,656	0.979	6,695	7,618	1.13	7,539	7,354
49	119.4	121.2	6,838	7,823	19,985	3,769	0.995	6,699	6,275	1.13	7,535	7,416
50	119.8	123.4	7,051	8,450	20,676	3,667	0.980	6,703	5,090	1.13	7,531	7,441
51	120.2	123.1	7,233	8,165	21,283	3,621	0.973	6,704	4,127	1.13	7,527	7,388
52	119.7	122.2	7,082	7,408	20,748	3,637	0.975	6,710	3,197	1.12	7,523	7,367
53	115.0	119.6	7,147	7,927	20,118	3,739	0.990	6,714	6,649	1.20	7,519	7,561
54	116.9	118.7	6,846	8,018	19,585	3,494	0.953	6,717	6,520	1.16	7,515	7,339
55	119.8	124.8	7,142	8,140	20,941	3,755	0.991	6,725	5,671	1.10	7,511	7,139
56	116.6	118.9	6,302	7,317	18,004	3,705	0.982	6,739	6,380	1.12	7,507	7,236
57	117.2	119.2	6,655	7,596	19,099	3,727	0.985	6,751	6,831	1.12	7,503	7,211
58	119.8	122.0	6,602	6,972	19,364	3,712	0.982	6,755	7,020	1.10	7,498	7,224
59	116.8	119.8	6,527	7,096	18,674	3,642	0.972	6,759	6,156	1.12	7,280	7,136
60	113.8	119.5	6,564	8,162	18,289	3,604	0.966	6,765	3,770	1.14	7,280	7,099
61	119.6	121.3	6,740	7,989	19,727	3,661	0.974	6,770	4,762	1.11	7,272	7,149

Treatment Detail

Stage #	Avg. Rate	Max Rate	Avg. Pressure	Max Press.	HHP	ISIP	Frac. Grad.	TVD	Break Pressure	Pump Time	Clean Design Vol.	Clean Vol.
62	116.9	118.4	6,594	7,622	18,869	3,989	1.022	6,771	6,420	1.13	7,268	7,241
63	117.2	118.7	6,611	8,187	18,959	3,655	0.973	6,776	6,498	1.13	7,264	7,198
Avg.	118.0	120.7	7,311	8,021	21,156	3,788	1.002		Totals	78.89	479,240	475,267

Perforation Detail

Stage #	Perforation Top MD	Bottom Perf MD	Plug MD	Pumpdown Max Rate	Total Perfs	Total Clusters	Phasing	Pumpdown Volume
	ft	ft	ft	bpm			degrees	bbls
1	18,088	18,096	18,120	0	32	8	60	868
2	17,913	18,049	18,068	0	32	8	60	766
3	17,738	17,875	17,893	18	32	8	60	707
4	17,563	17,700	17,718	18	32	8	60	677
5	17,388	17,525	17,544	0	32	8	60	647
6	17,214	17,351	17,369	18	32	8	60	693
7	17,039	17,176	17,194	18	32	8	60	670
8	16,864	17,001	17,019	18	32	8	60	633
9	16,689	16,826	16,845	0	32	8	60	588
10	16,515	16,652	16,670	18	32	8	60	573
11	16,340	16,477	16,495	18	32	8	60	584
12	16,165	16,302	16,321	18	32	8	60	585
13	15,991	16,127	16,146	18	32	8	60	595
14	15,816	15,953	15,971	0	32	8	60	575
15	15,641	15,778	15,796	0	32	8	60	539
16	15,466	15,603	15,622	18	32	8	60	520
17	15,292	15,429	15,447	18	32	8	60	560
18	15,117	15,254	15,272	18	32	8	60	560
19	14,942	15,079	15,098	0	32	8	60	521
20	14,767	14,904	14,923	18	32	8	60	500
21	14,593	14,730	14,748	18	32	8	60	551
22	14,418	14,555	14,573	18	32	8	60	539
23	14,243	14,380	14,399	18	32	8	60	507
24	14,069	14,206	14,224	18	32	8	60	461
25	13,894	14,031	14,049	18	32	8	60	435
26	13,719	13,856	13,874	18	32	8	60	439
27	13,544	13,681	13,700	18	32	8	60	419
28	13,370	13,507	13,525	0	32	8	60	421
29	13,195	13,332	13,350	0	32	8	60	425
30	13,020	13,157	13,176	0	32	8	60	429

Perforation Detail

Stage #	Perforation Top MD	Bottom Perf MD	Plug MD	Pumpdown Max Rate	Total Perfs	Total Clusters	Phasing	Pumpdown Volume
31	12,846	12,982	13,001	18	32	8	60	436
32	12,671	12,808	12,826	18	32	8	60	397
33	12,496	12,633	12,651	0	32	8	60	392
34	12,321	12,458	12,477	0	32	8	60	368
35	12,147	12,284	12,302	18	32	8	60	358
36	11,972	12,109	12,127	18	32	8	60	349
37	11,797	11,934	11,953	18	32	8	60	347
38	11,622	11,759	11,778	18	32	8	60	347
39	11,448	11,585	11,603	0	32	8	60	336
40	11,273	11,410	11,428	0	32	8	60	337
41	11,098	11,235	11,254	18	32	8	60	308
42	10,924	11,060	11,079	18	32	8	60	392
43	10,749	10,886	10,904	18	32	8	60	331
44	10,574	10,711	10,729	0	32	8	60	307
45	10,399	10,536	10,555	0	32	8	60	302
46	10,225	10,362	10,380	18	32	8	60	292
47	10,050	10,187	10,205	0	32	8	60	288
48	9,875	10,012	10,031	18	32	8	60	282
49	9,701	9,837	9,856	18	32	8	60	279
50	9,526	9,663	9,681	0	32	8	60	268
51	9,351	9,488	9,506	18	32	8	60	274
52	9,176	9,313	9,332	0	32	8	60	117
53	9,002	9,139	9,157	18	32	8	60	268
54	8,827	8,964	8,982	0	32	8	60	268
55	8,652	8,789	8,808	18	32	8	60	248
56	8,477	8,614	8,633	18	32	8	60	228
57	8,303	8,440	8,458	18	32	8	60	23
58	8,128	8,265	8,283	18	32	8	60	221
59	7,953	8,090	8,109	18	32	8	60	221
60	7,779	7,915	7,934	18	32	8	60	194
61	7,604	7,741	7,759	18	32	8	60	197

Perforation Detail

Stage #	Perforation Top MD	Bottom Perf MD	Plug MD	Pumpdown Max Rate	Total Perfs	Total Clusters	Phasing	Pumpdown Volume
62	7,429	7,566	7,584	18	32	8	60	208
63	7,254	7,391	7,410	18	32	8	60	206
			Max	18			Total	26,376

Proppant Detail

Stage #	40/70 Mesh	Avg. Prop. Conc.	Max Prop Conc	Design Total Proppant	Total Proppant	Proppant Variance
	lbs	ppa	ppa	lbs	lbs	%
1	257,430	0.91	2.08	257,000	257,430	0
2	257,360	0.88	2.11	257,000	257,360	0
3	257,080	0.93	2.11	257,000	257,080	0
4	257,500	0.94	2.08	257,000	257,500	0
5	257,280	0.93	2.11	257,000	257,280	0
6	280,220	1.06	3.14	280,000	280,220	0
7	280,150	1.11	3.19	280,000	280,150	0
8	282,980	1.13	3.17	280,000	282,980	1
9	280,420	1.14	3.17	280,000	280,420	0
10	280,440	1.09	3.12	280,000	280,440	0
11	281,111	1.09	3.11	280,000	281,111	0
12	280,449	1.10	3.15	280,000	280,449	0
13	304,119	1.19	3.19	280,000	304,119	9
14	280,320	1.06	3.19	280,000	280,320	0
15	280,450	1.12	3.17	280,000	280,450	0
16	280,699	1.09	3.13	280,000	280,699	0
17	280,171	1.13	3.42	280,000	280,171	0
18	280,440	1.11	3.17	280,000	280,440	0
19	280,150	1.12	3.18	280,000	280,150	0
20	280,699	1.13	3.11	280,000	280,699	0
21	280,961	1.11	3.22	280,000	280,961	0
22	280,360	1.12	3.16	280,000	280,360	0
23	280,320	1.17	3.19	280,000	280,320	0
24	280,200	1.08	3.21	280,000	280,200	0
25	280,380	1.12	3.19	280,000	280,380	0
26	280,300	1.13	3.23	280,000	280,300	0
27	282,120	1.06	3.07	280,000	282,120	1
28	280,140	1.09	3.15	280,000	280,140	0
29	280,180	1.09	2.87	280,000	280,180	0
30	280,485	1.14	3.17	280,000	280,485	0
31	280,320	1.11	3.20	280,000	280,320	0
32	280,520	1.11	3.22	280,000	280,520	0
33	280,580	1.10	3.10	280,000	280,580	0
34	280,140	1.10	3.14	280,000	280,140	0
35	280,100	1.10	3.09	280,000	280,100	0
36	280,480	1.09	3.07	280,000	280,480	0
37	280,140	1.10	3.16	280,000	280,140	0
38	280,320	1.17	3.13	280,000	280,320	0
39	280,480	1.23	3.26	280,000	280,480	0
40	280,000	1.09	3.16	280,000	280,000	0
41	280,060	1.09	3.08	280,000	280,060	0
42	280,000	1.10	3.12	280,000	280,000	0
43	280,440	1.08	3.10	280,000	280,440	0
44	280,460	1.11	3.13	280,000	280,460	0
45	280,400	1.13	3.12	280,000	280,400	0
46	280,320	1.13	3.11	280,000	280,320	0

Proppant Detail

Stage #	40/70 Mesh	Avg. Prop. Conc.	Max Prop Conc	Design Total Proppant	Total Proppant	Proppant Variance
47	280,000	1.13	3.17	280,000	280,000	0
48	280,040	1.08	3.10	280,000	280,040	0
49	280,140	1.12	3.12	280,000	280,140	0
50	280,360	1.14	3.15	280,000	280,360	0
51	280,000	1.13	3.14	280,000	280,000	0
52	279,980	1.14	3.12	280,000	279,980	0
53	280,180	1.15	3.26	280,000	280,180	0
54	280,330	1.18	3.21	280,000	280,330	0
55	281,160	1.12	3.27	280,000	281,160	0
56	280,180	1.16	3.25	280,000	280,180	0
57	280,040	1.12	3.12	280,000	280,040	0
58	280,340	1.17	3.17	280,000	280,340	0
59	280,100	1.15	3.22	267,500	280,100	5
60	280,140	1.11	3.18	267,500	280,140	5
61	280,000	1.13	3.17	267,500	280,000	5
62	280,360	1.15	3.19	267,500	280,360	5
63	280,160	1.11	3.27	267,500	280,160	5
Totals	17,573,184			17,462,500	17,573,184	1

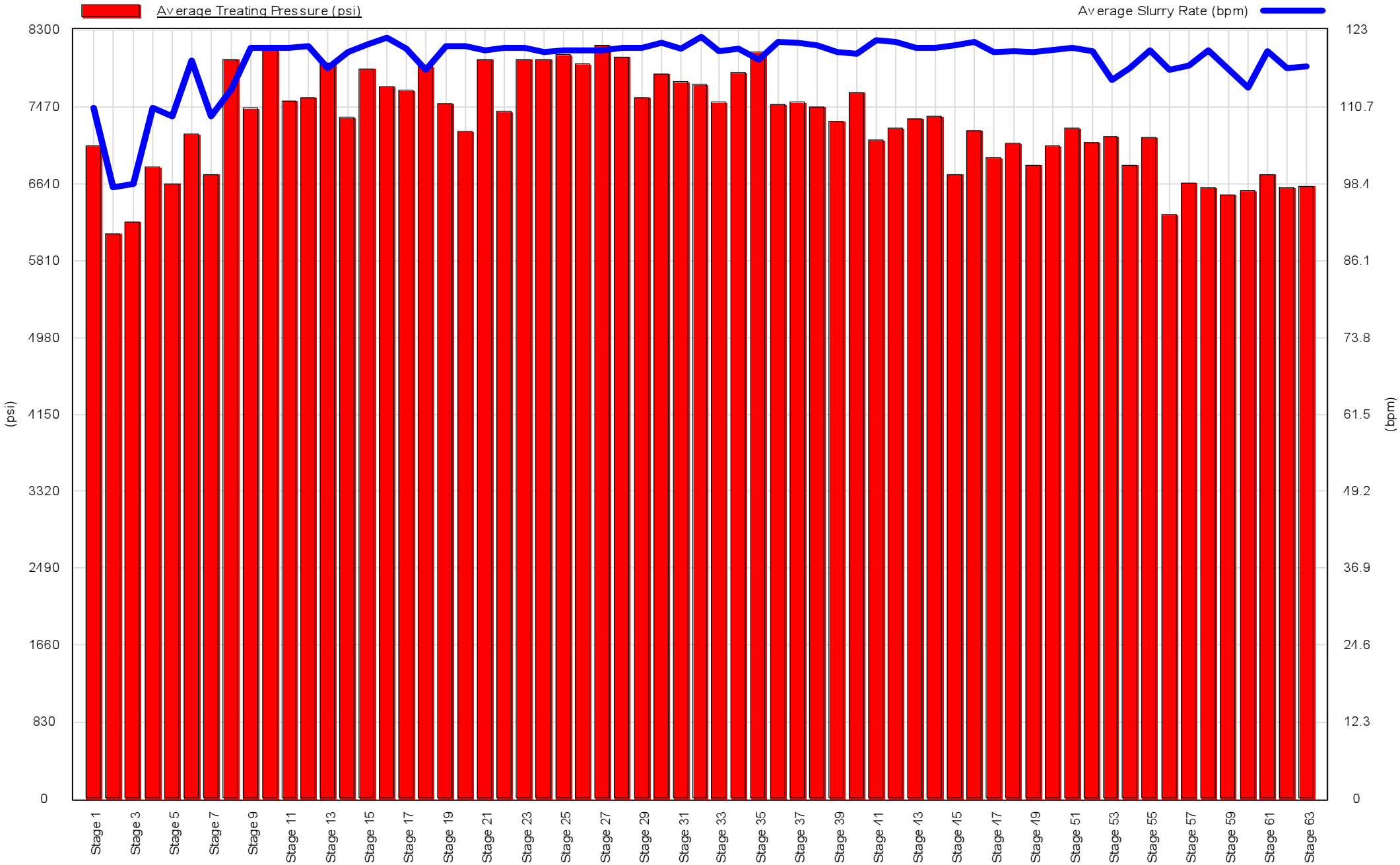
Additives Detail

Stage #	7.5% HCL	BioSuite-GQ510X	NCS-17	NHV-33
	gal	gal	gal	gal
1	1,012	112	200	504
2	575	82	164	451
3	580	82	164	429
4	557	86	172	473
5	563	86	172	400
6		83	167	356
7		83	166	388
8		80	150	360
9		70	152	360
10		83	165	356
11		84	164	331
12		83	151	277
13		78	157	354
14		75	150	317
15		79	153	291
16		78	151	266
17		84	153	289
18		76	152	353
19		78	154	261
20		77	154	247
21		77	153	277
22		77	154	255
23		76	152	269
24		78	150	235
25		76	152	304
26		75	143	250
27		76	148	189
28		75	152	152
29		76	152	290
30		77	153	225
31		75	151	193
32		67	134	178
33		75	151	302
34		75	150	200
35		74	149	288
36		75	150	258
37		79	147	250
38		76	152	202
39		80	160	230
40		75	150	268
41		75	149	255
42		75	148	245
43		74	148	202
44		75	150	213
45		76	152	197
46		75	149	206
47		76	151	204
48		74	148	193

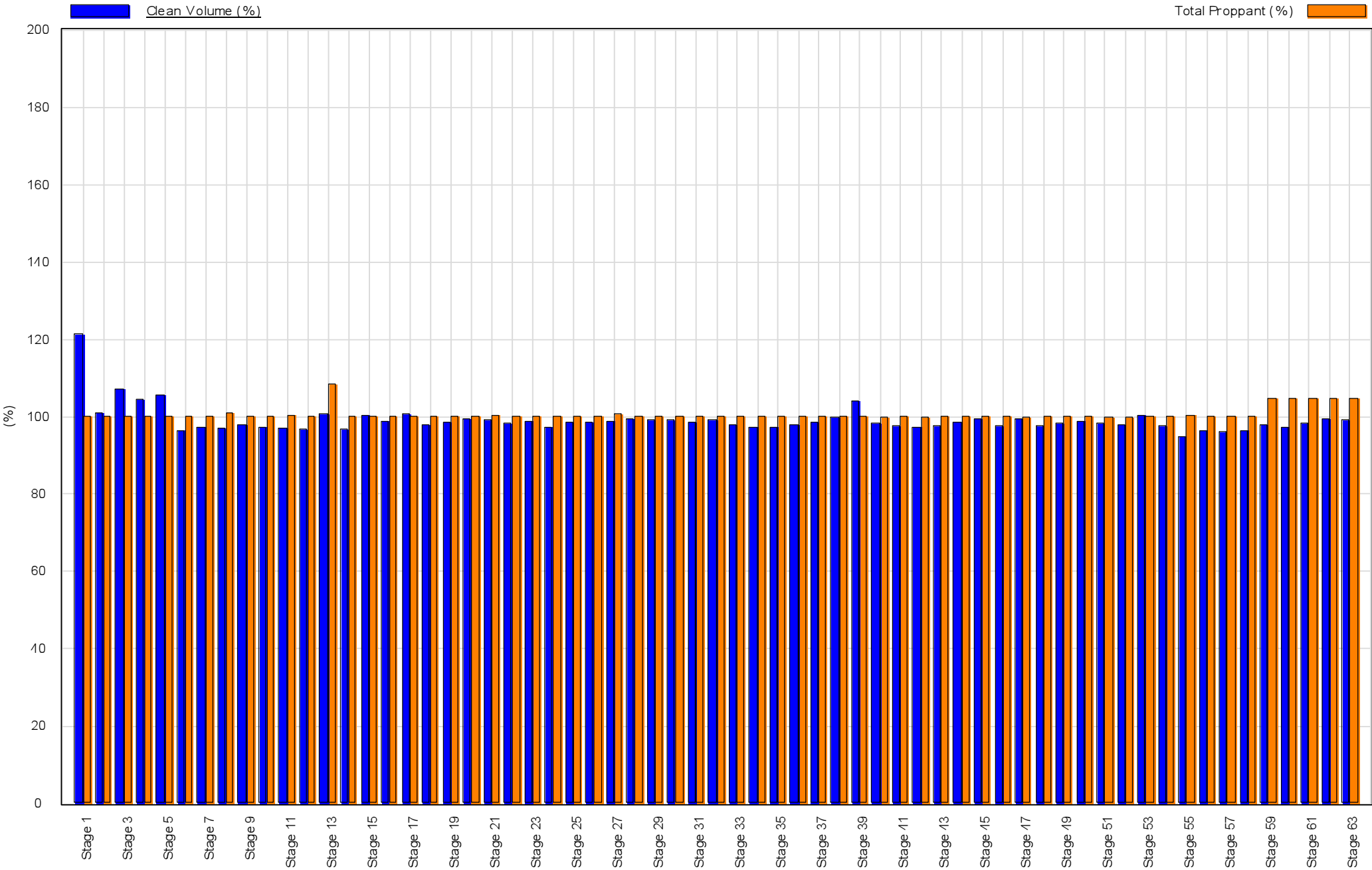
Additives Detail

Stage #	7.5% HCL	BioSuite-GQ510X	NCS-17	NHV-33
49		75	150	214
50		75	150	237
51		65	131	177
52		75	149	183
53		79	158	244
54		77	154	235
55		74	149	236
56		75	151	230
57		71	142	216
58		75	150	225
59		74	148	222
60		74	148	222
61		75	150	224
62		75	151	232
63		74	149	309
Totals	3,287	4,866	9,639	16,999

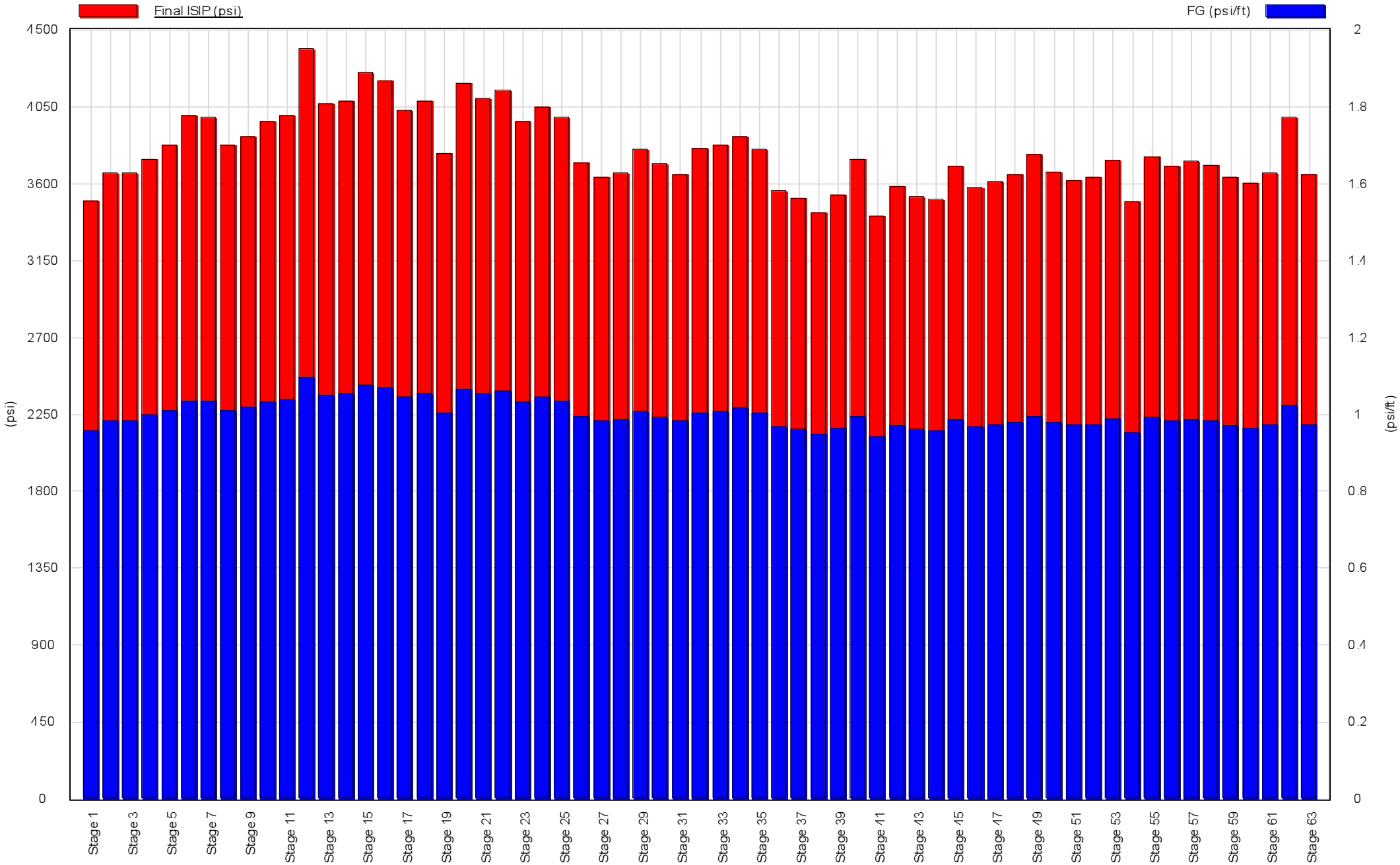
Avg Pressure and Rate



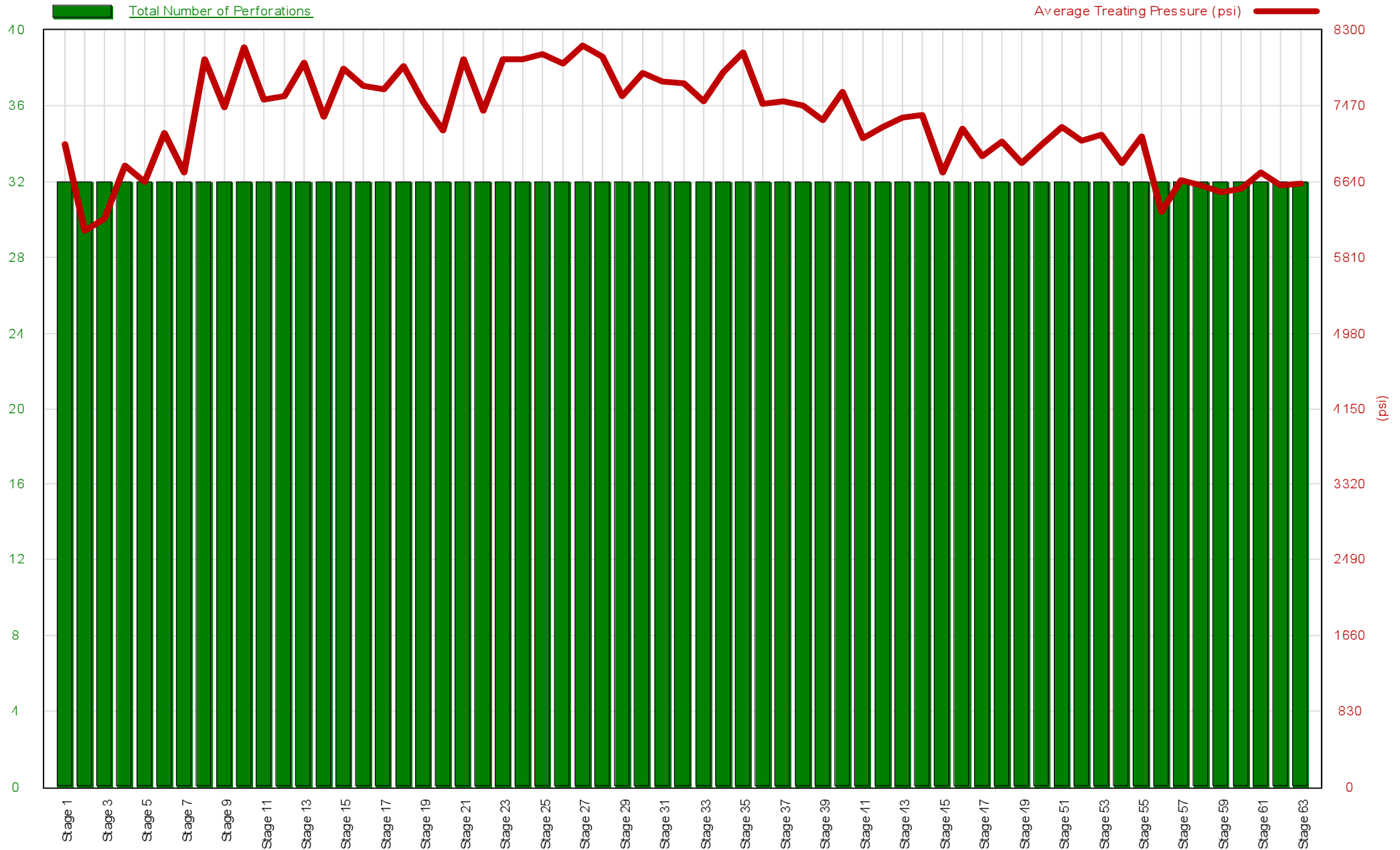
Design Completion Percentage

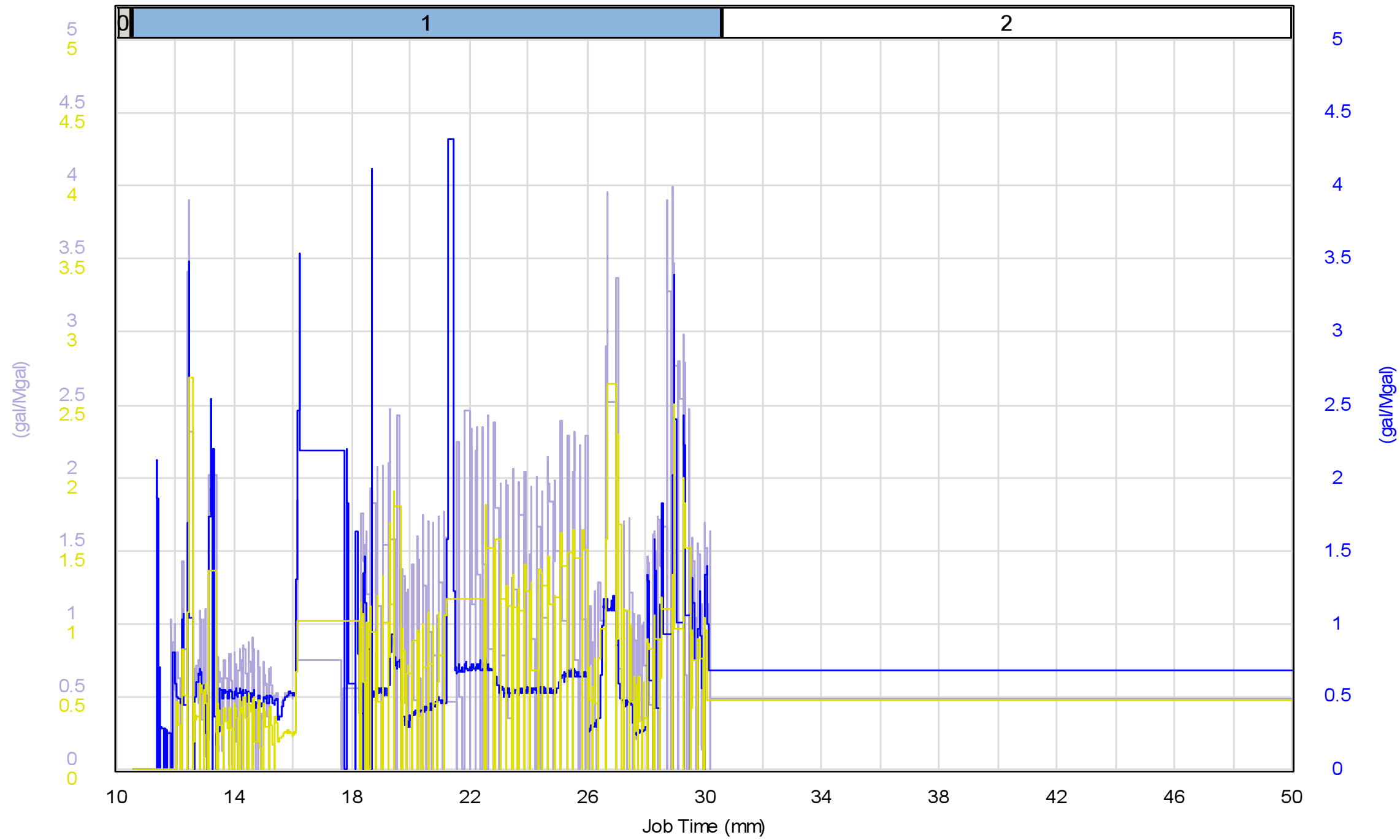
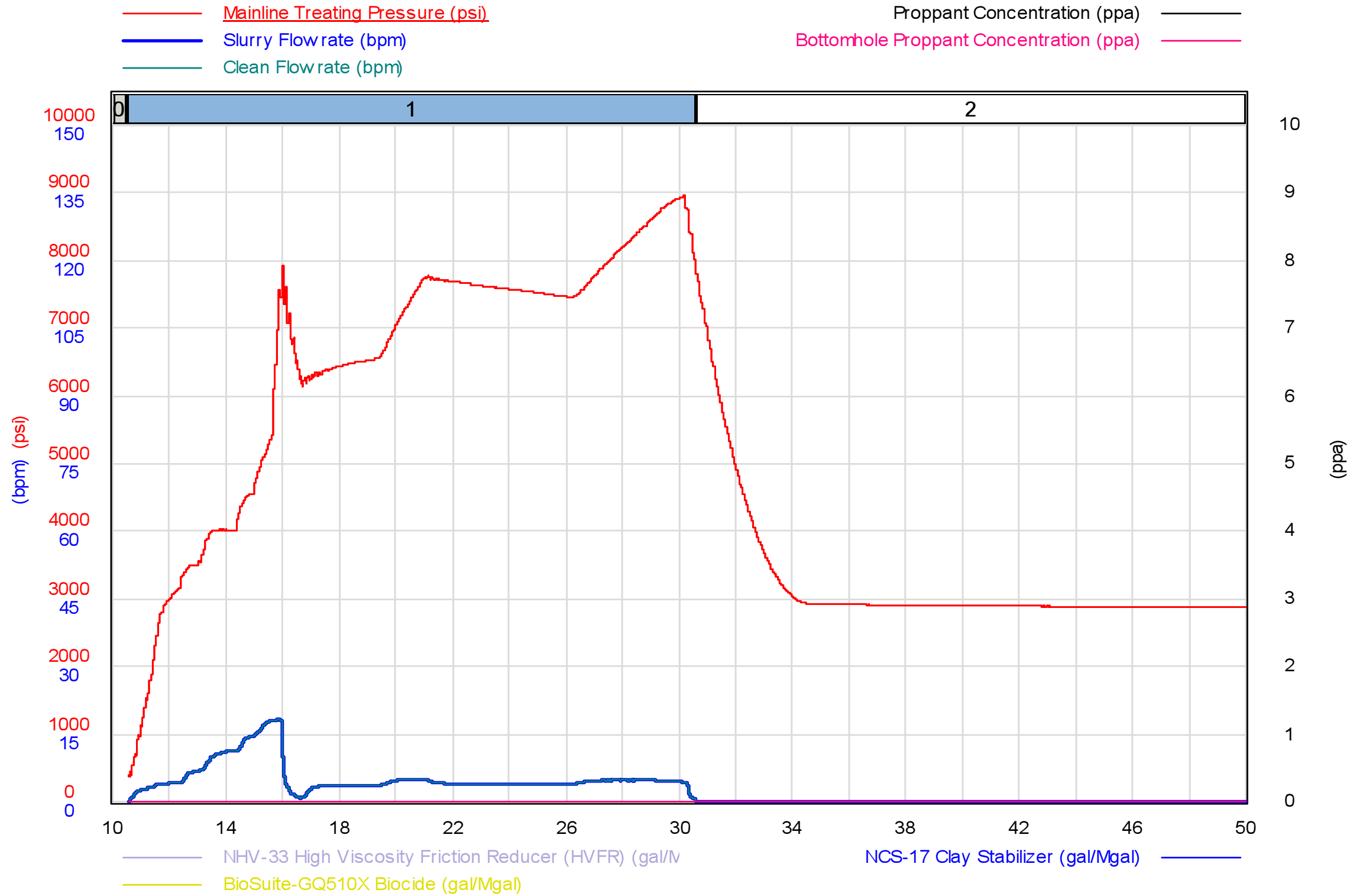


ISIP and FG



Perfs and Avg. Press.



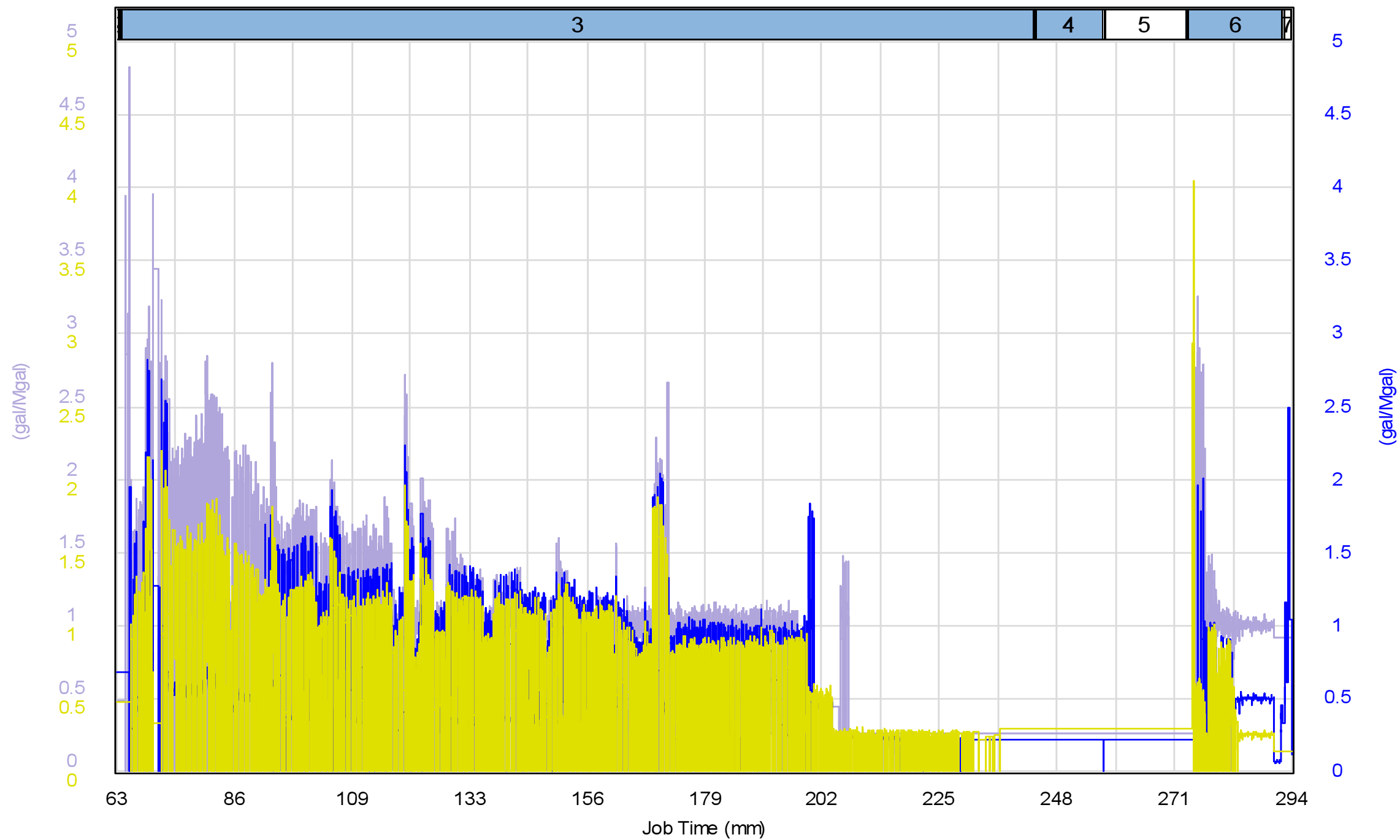
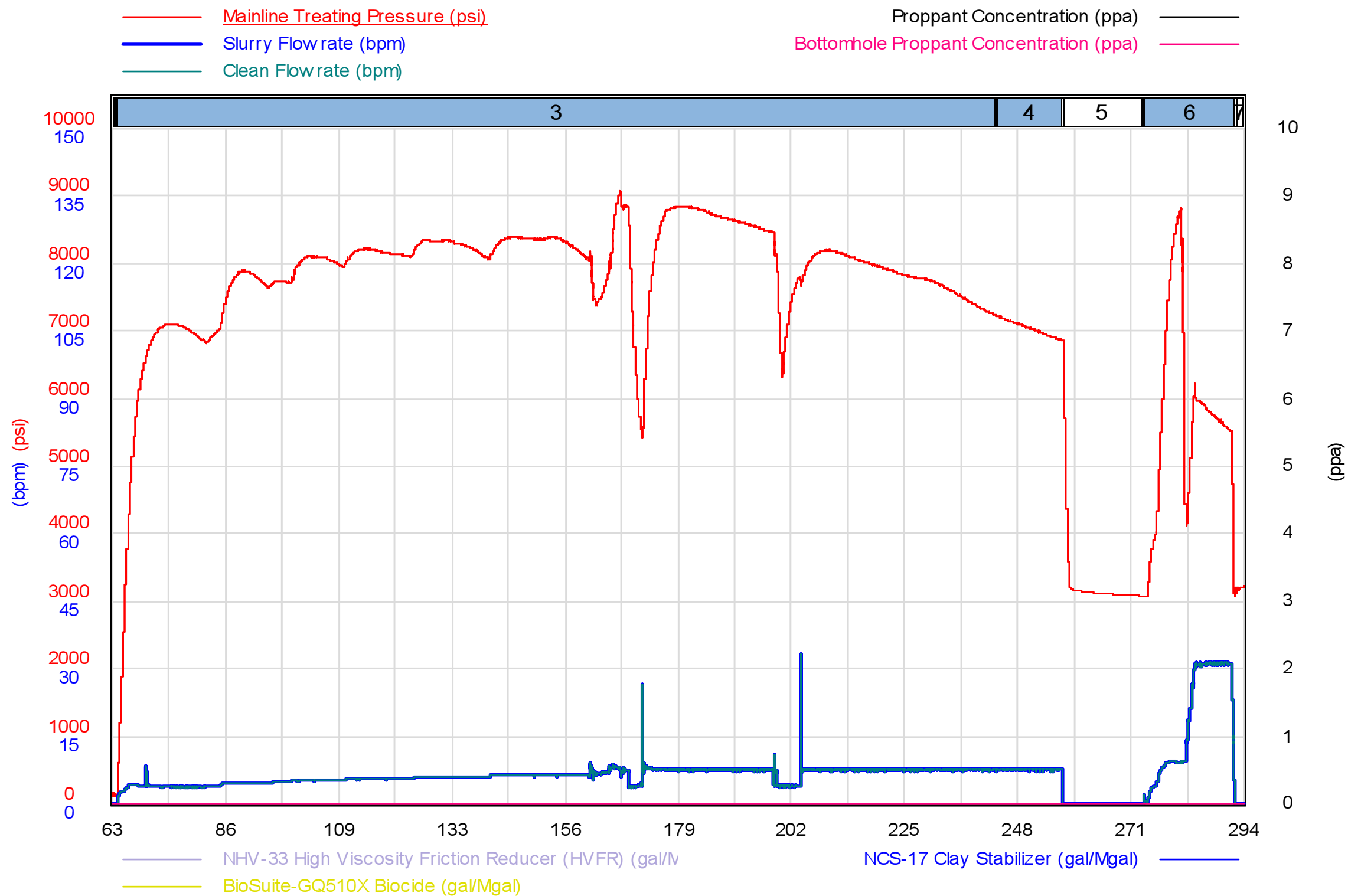


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	5.3	107		0.00	0
2	Shut In	0.0	0		0.00	0
3	Pumpdown	6.2	1,109		0.00	0
4	Acid	7.7	105		0.00	0
5	Shut In	0.0	0		0.00	0
6	Pumpdown	18.1	341		0.00	0
7	Shut In	0.0	0		0.00	0
8	Establish Injection	29.5	262		0.00	0
9	Acid	50.0	12		0.00	0
10	Pad	73.7	601		0.00	0
11	Slurry	110.6	1,814	40/70 Mesh	0.50	36,769
12	Slurry	110.9	1,947	40/70 Mesh	0.75	60,558
13	Slurry	110.5	1,465	40/70 Mesh	1.00	60,678
14	Slurry	109.8	971	40/70 Mesh	1.50	60,230
15	Slurry	109.8	519	40/70 Mesh	2.00	39,145
16	Flush	103.3	448		0.00	50
17		0.0	0		0.00	0
Totals			9,701			257,430

Top Perforation	18,088 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	18,096 (ft)	Clean Vol.	9,701 (bbls)
Clusters	8	40/70 Mesh	257,430 (lbs)
Total Perforations	32	Total Proppant	257,430 (lbs)
Avg. Rate	110.4 (bpm)		
Avg. Pressure	7,047 (psi)		
Max Rate	111.8 (bpm)		
Max Pressure	7,358 (psi)		

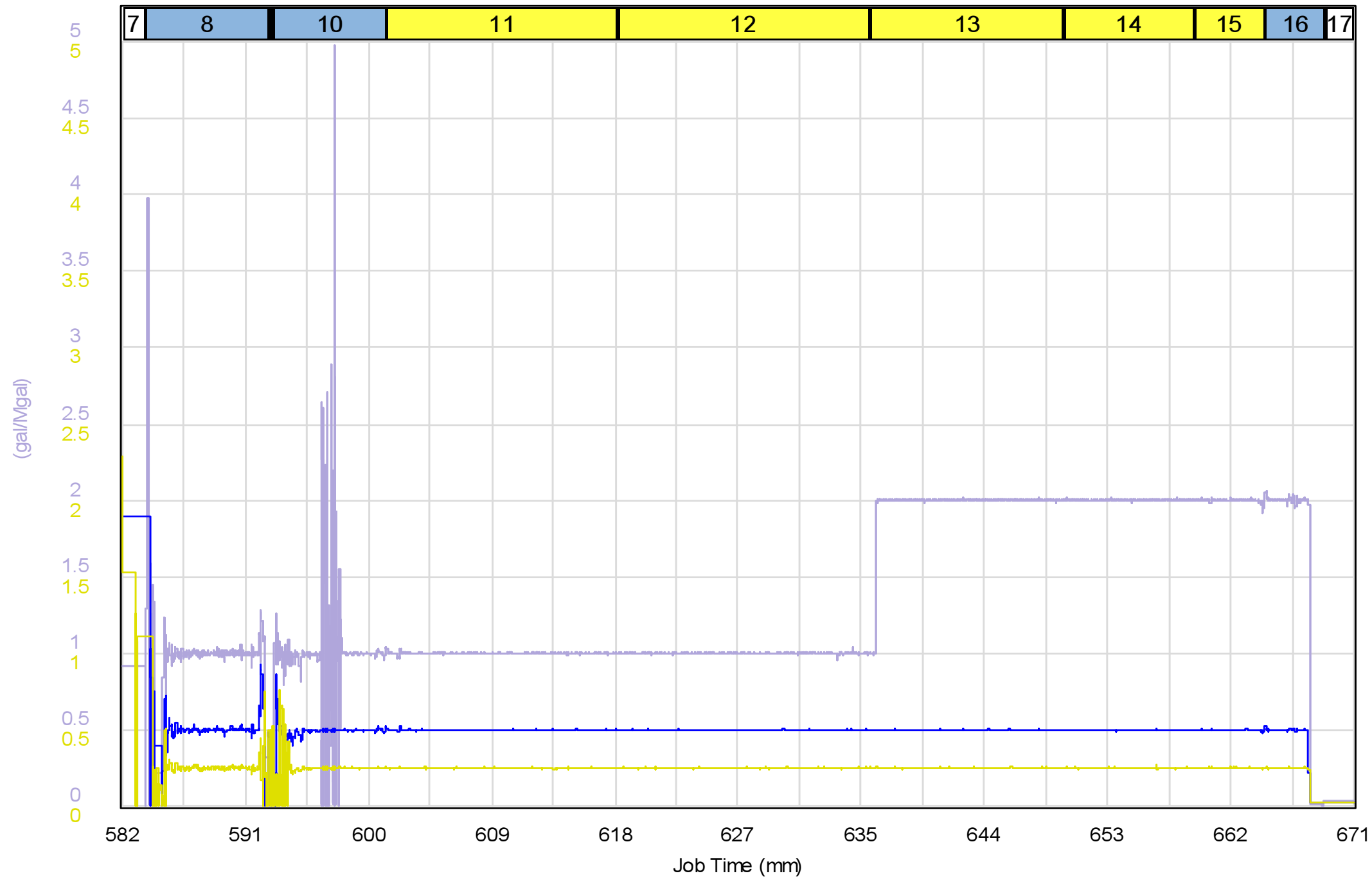
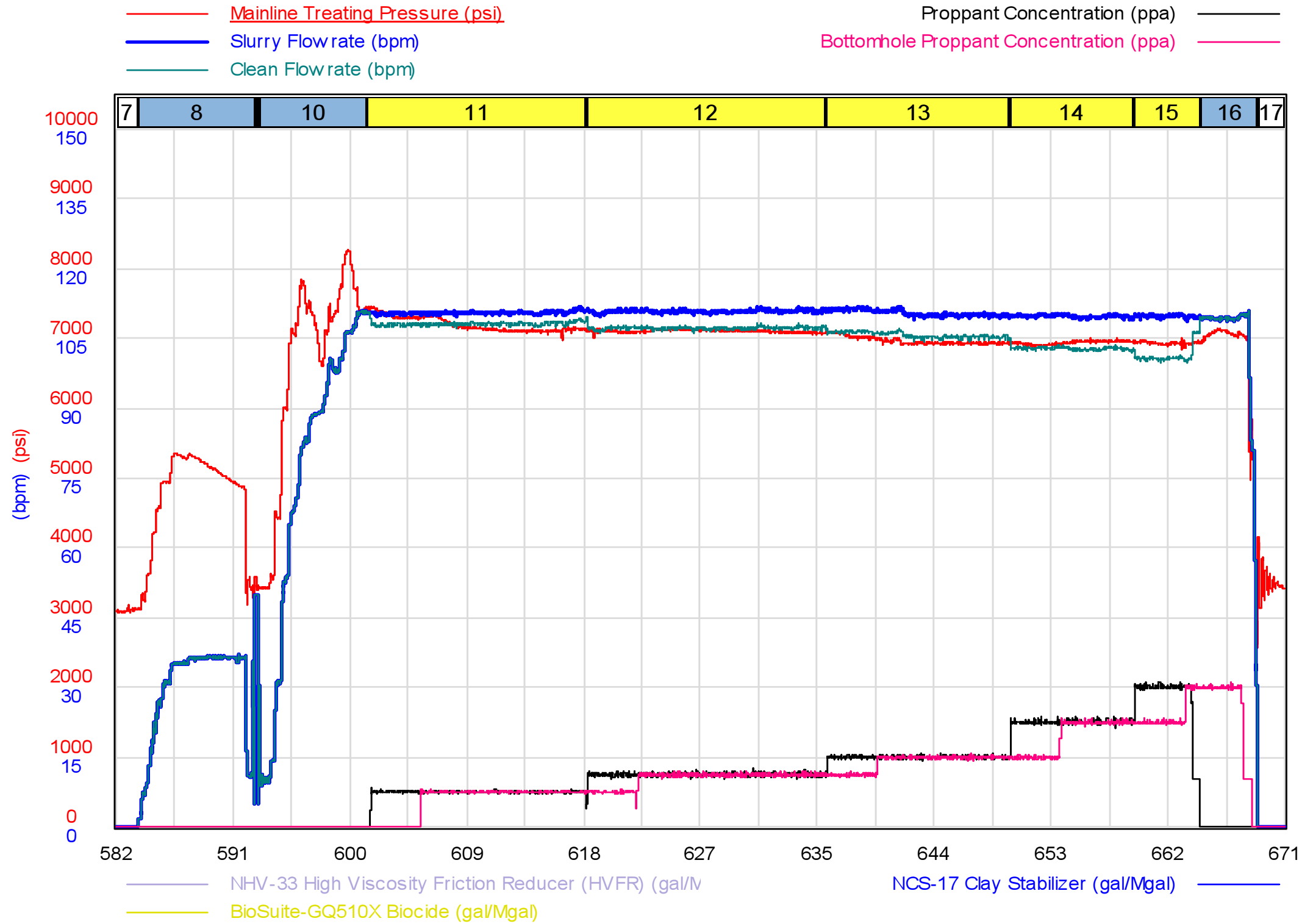
Performed a 1660 bbl injection prior to WL making a run. Ran 500 gal acid during injection.
No NPT this stage. Stage pumped as designed.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	5.3	107		0.00	0
2	Shut In	0.0	0		0.00	0
3	Pumpdown	6.2	1,109		0.00	0
4	Acid	7.7	105		0.00	0
5	Shut In	0.0	0		0.00	0
6	Pumpdown	18.1	341		0.00	0
7	Shut In	0.0	0		0.00	0
8	Establish Injection	29.5	262		0.00	0
9	Acid	50.0	12		0.00	0
10	Pad	73.7	601		0.00	0
11	Slurry	110.6	1,814	40/70 Mesh	0.50	36,769
12	Slurry	110.9	1,947	40/70 Mesh	0.75	60,558
13	Slurry	110.5	1,465	40/70 Mesh	1.00	60,678
14	Slurry	109.8	971	40/70 Mesh	1.50	60,230
15	Slurry	109.8	519	40/70 Mesh	2.00	39,145
16	Flush	103.3	448		0.00	50
17		0.0	0		0.00	0
Totals			9,701			257,430

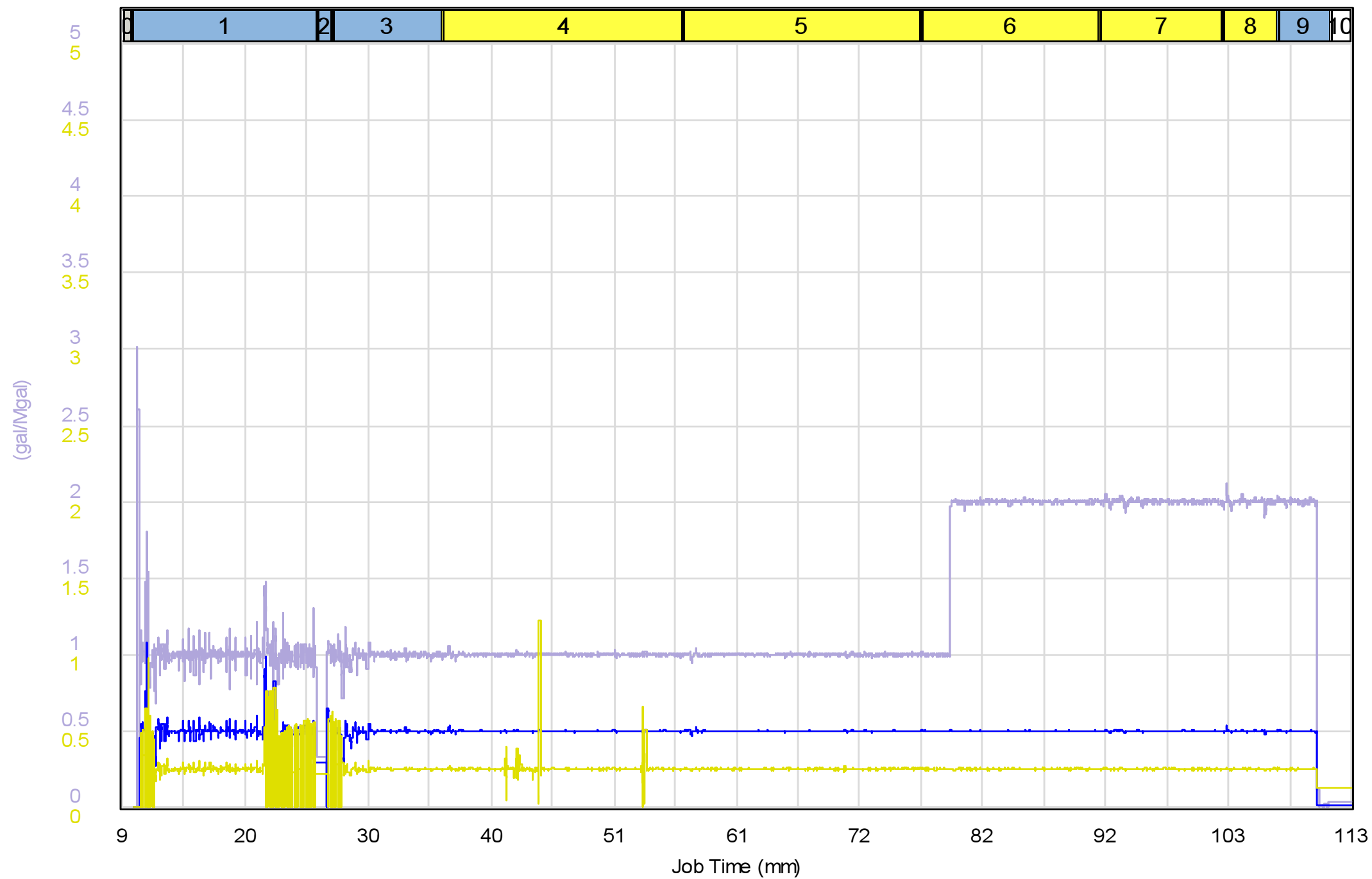
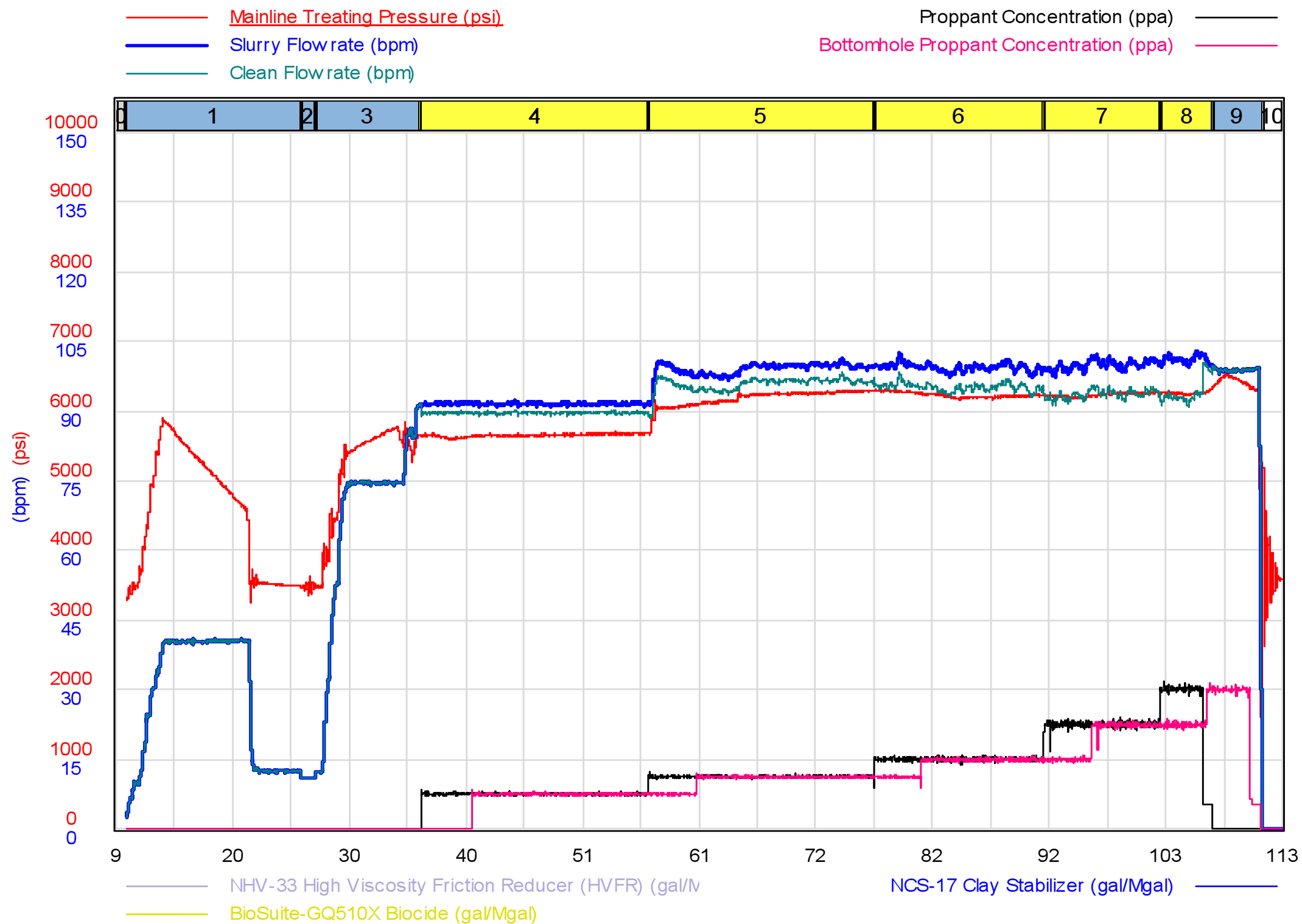
Top Perforation	18,088 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	18,096 (ft)	Clean Vol.	9,701 (bbls)
Clusters	8	40/70 Mesh	257,430 (lbs)
Total Perforations	32	Total Proppant	257,430 (lbs)
Avg. Rate	110.4 (bpm)		
Avg. Pressure	7,047 (psi)		
Max Rate	111.8 (bpm)		
Max Pressure	7,358 (psi)		
Performed a 1660 bbl injection prior to WL making a run. Ran 500 gal acid during injection.			
No NPT this stage. Stage pumped as designed.			



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	5.3	107		0.00	0
2	Shut In	0.0	0		0.00	0
3	Pumpdown	6.2	1,109		0.00	0
4	Acid	7.7	105		0.00	0
5	Shut In	0.0	0		0.00	0
6	Pumpdown	18.1	341		0.00	0
7	Shut In	0.0	0		0.00	0
8	Establish Injection	29.5	262		0.00	0
9	Acid	50.0	12		0.00	0
10	Pad	73.7	601		0.00	0
11	Slurry	110.6	1,814	40/70 Mesh	0.50	36,769
12	Slurry	110.9	1,947	40/70 Mesh	0.75	60,558
13	Slurry	110.5	1,465	40/70 Mesh	1.00	60,678
14	Slurry	109.8	971	40/70 Mesh	1.50	60,230
15	Slurry	109.8	519	40/70 Mesh	2.00	39,145
16	Flush	103.3	448		0.00	50
17		0.0	0		0.00	0
Totals			9,701			257,430

Top Perforation	18,088 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	18,096 (ft)	Clean Vol.	9,701 (bbls)
Clusters	8	40/70 Mesh	257,430 (lbs)
Total Perforations	32	Total Proppant	257,430 (lbs)
Avg. Rate	110.4 (bpm)		
Avg. Pressure	7,047 (psi)		
Max Rate	111.8 (bpm)		
Max Pressure	7,358 (psi)		
Performed a 1660 bbl injection prior to WL making a run. Ran 500 gal acid during injection.			
No NPT this stage. Stage pumped as designed.			

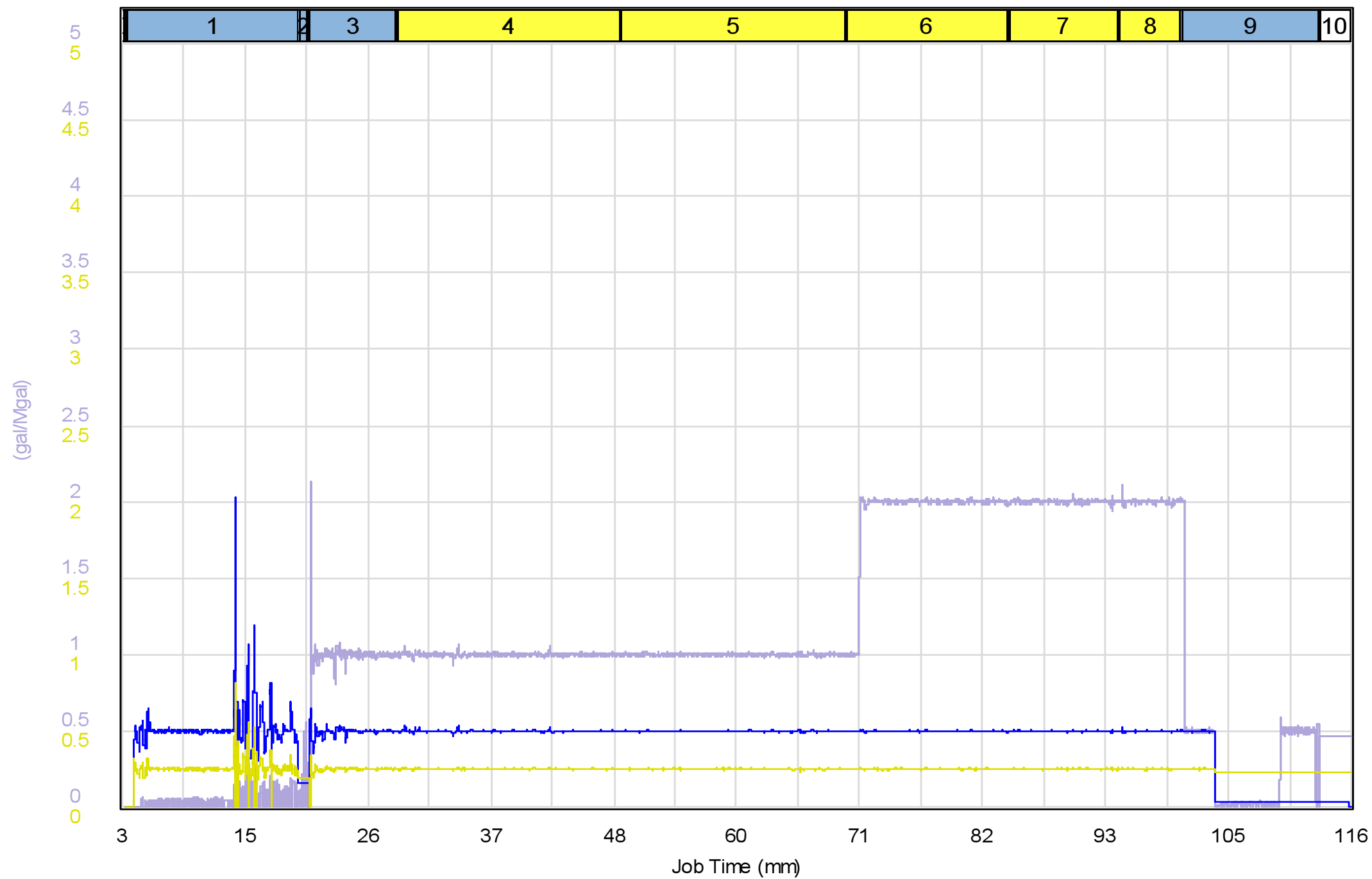
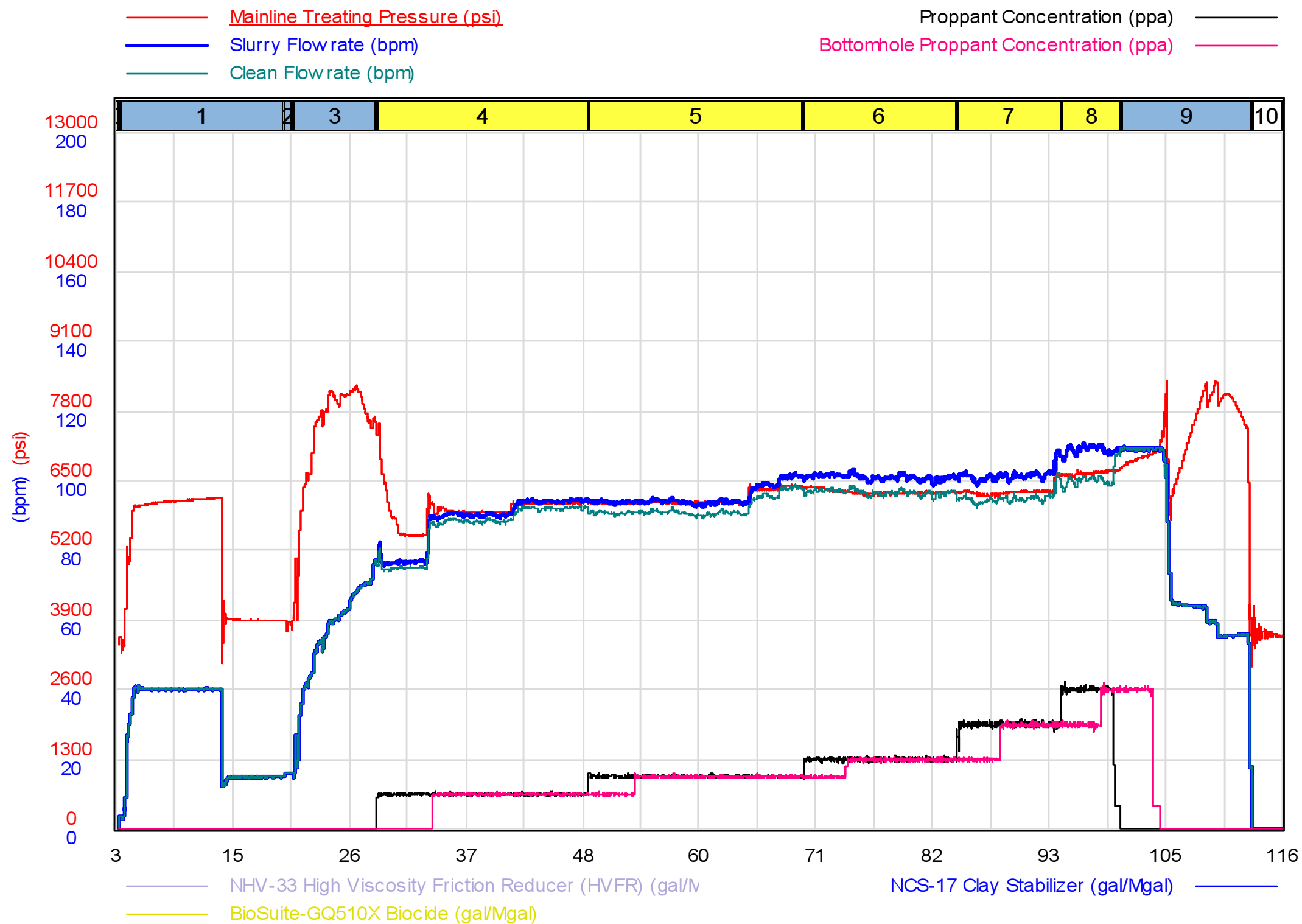


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	27.9	435		0.00	0
2	Acid	11.0	14		0.00	0
3	Pad	65.8	611		0.00	0
4	Slurry	91.7	1,821	40/70 Mesh	0.50	39,061
5	Slurry	99.1	1,920	40/70 Mesh	0.75	62,019
6	Slurry	99.5	1,439	40/70 Mesh	1.00	61,852
7	Slurry	100.0	966	40/70 Mesh	1.50	62,251
8	Slurry	101.2	442	40/70 Mesh	2.00	32,153
9	Flush	94.9	426		0.00	24
10		0.0	0		0.00	0
Totals			8,073			257,360

Top Perforation	17,913 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	18,049 (ft)	Clean Vol.	8,073 (bbls)
Clusters	8	40/70 Mesh	257,360 (lbs)
Total Perforations	32	Total Proppant	257,360 (lbs)
Avg. Rate	97.8 (bpm)		
Avg. Pressure	6,106 (psi)		
Max Rate	102.9 (bpm)		
Max Pressure	6,526 (psi)		

No NPT prior to stage. All proppant placed.

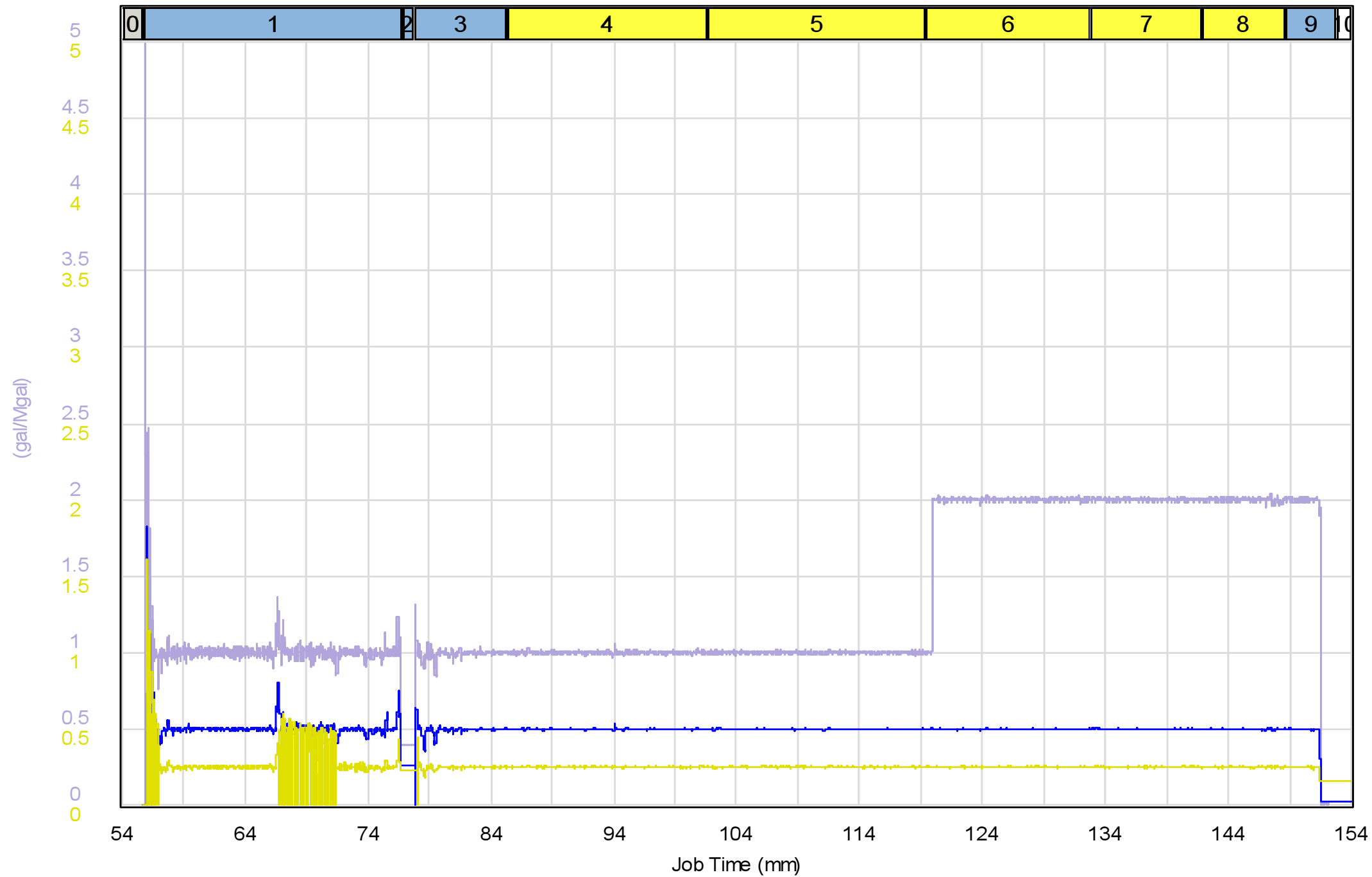
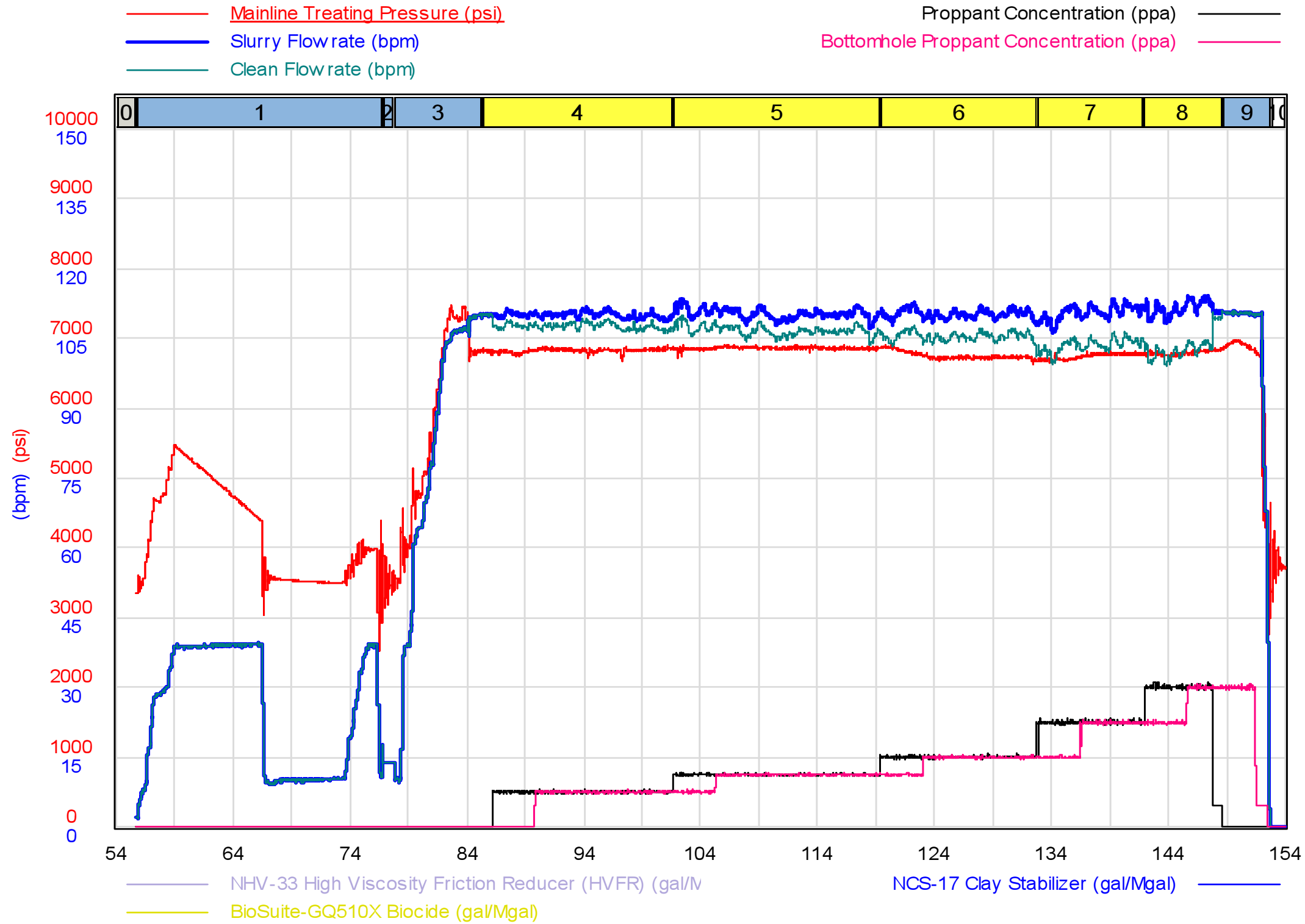


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	28.6	454		0.00	0
2	Acid	16.2	14		0.00	0
3	Pad	56.0	451		0.00	0
4	Slurry	88.4	1,770	40/70 Mesh	0.50	36,455
5	Slurry	95.4	1,906	40/70 Mesh	0.75	59,086
6	Slurry	101.0	1,435	40/70 Mesh	1.00	59,236
7	Slurry	101.7	960	40/70 Mesh	1.50	59,386
8	Slurry	109.0	580	40/70 Mesh	2.00	42,892
9	Flush	76.7	972		0.00	25
10		0.0	0		0.00	0
Totals			8,542			257,080

Top Perforation	17,738 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	17,875 (ft)	Clean Vol.	8,542 (bbls)
Clusters	8	40/70 Mesh	257,080 (lbs)
Total Perforations	32	Total Proppant	257,080 (lbs)
Avg. Rate	98.3 (bpm)		
Avg. Pressure	6,234 (psi)		
Max Rate	110.6 (bpm)		
Max Pressure	6,933 (psi)		

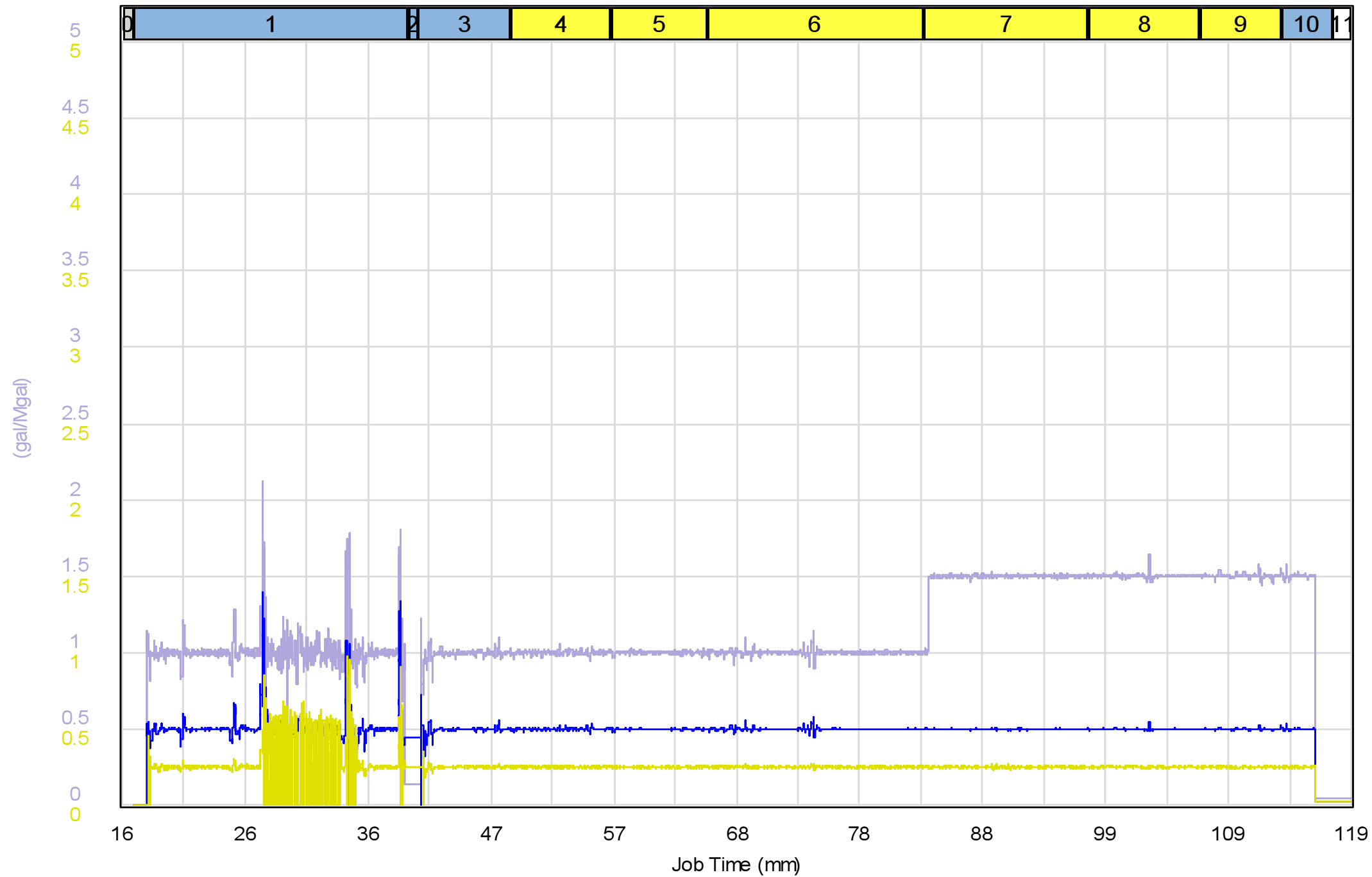
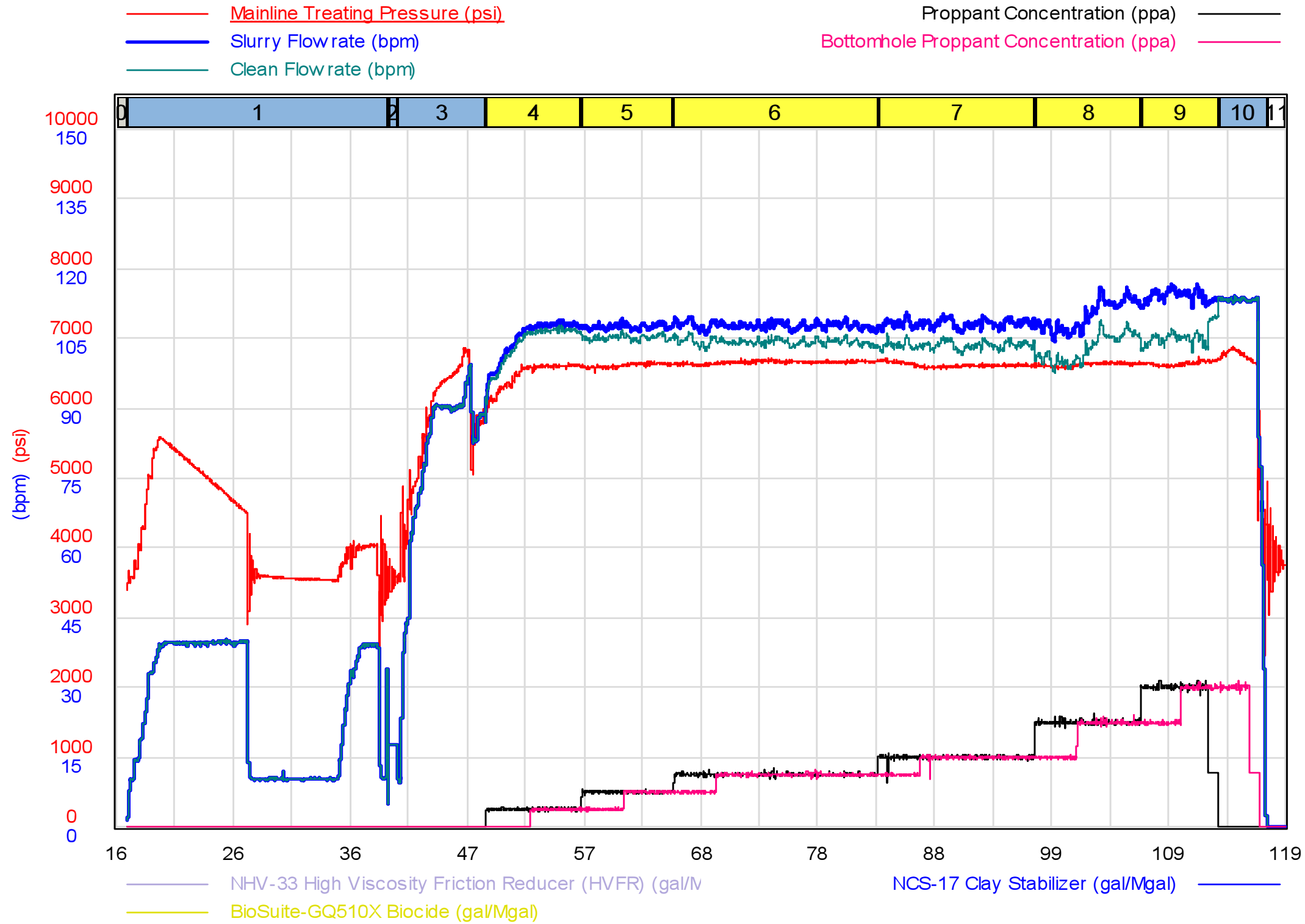
Pumped as directed by customer representative.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	25.2	535		0.00	0
2	Acid	13.7	13		0.00	0
3	Pad	79.6	601		0.00	0
4	Slurry	110.2	1,763	40/70 Mesh	0.50	33,850
5	Slurry	110.4	1,906	40/70 Mesh	0.75	57,834
6	Slurry	110.3	1,425	40/70 Mesh	1.00	57,671
7	Slurry	110.5	958	40/70 Mesh	1.50	58,020
8	Slurry	111.5	697	40/70 Mesh	2.00	50,102
9	Flush	101.5	421		0.00	22
10		0.0	0		0.00	0
Totals			8,319			257,500

Top Perforation	17,563 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	17,700 (ft)	Clean Vol.	8,319 (bbls)
Clusters	8	40/70 Mesh	257,500 (lbs)
Total Perforations	32	Total Proppant	257,500 (lbs)
Avg. Rate	110.5 (bpm)		
Avg. Pressure	6,812 (psi)		
Max Rate	114.4 (bpm)		
Max Pressure	6,992 (psi)		
No NPT. Pumped by design. No ball hit observed. All proppant placed.			

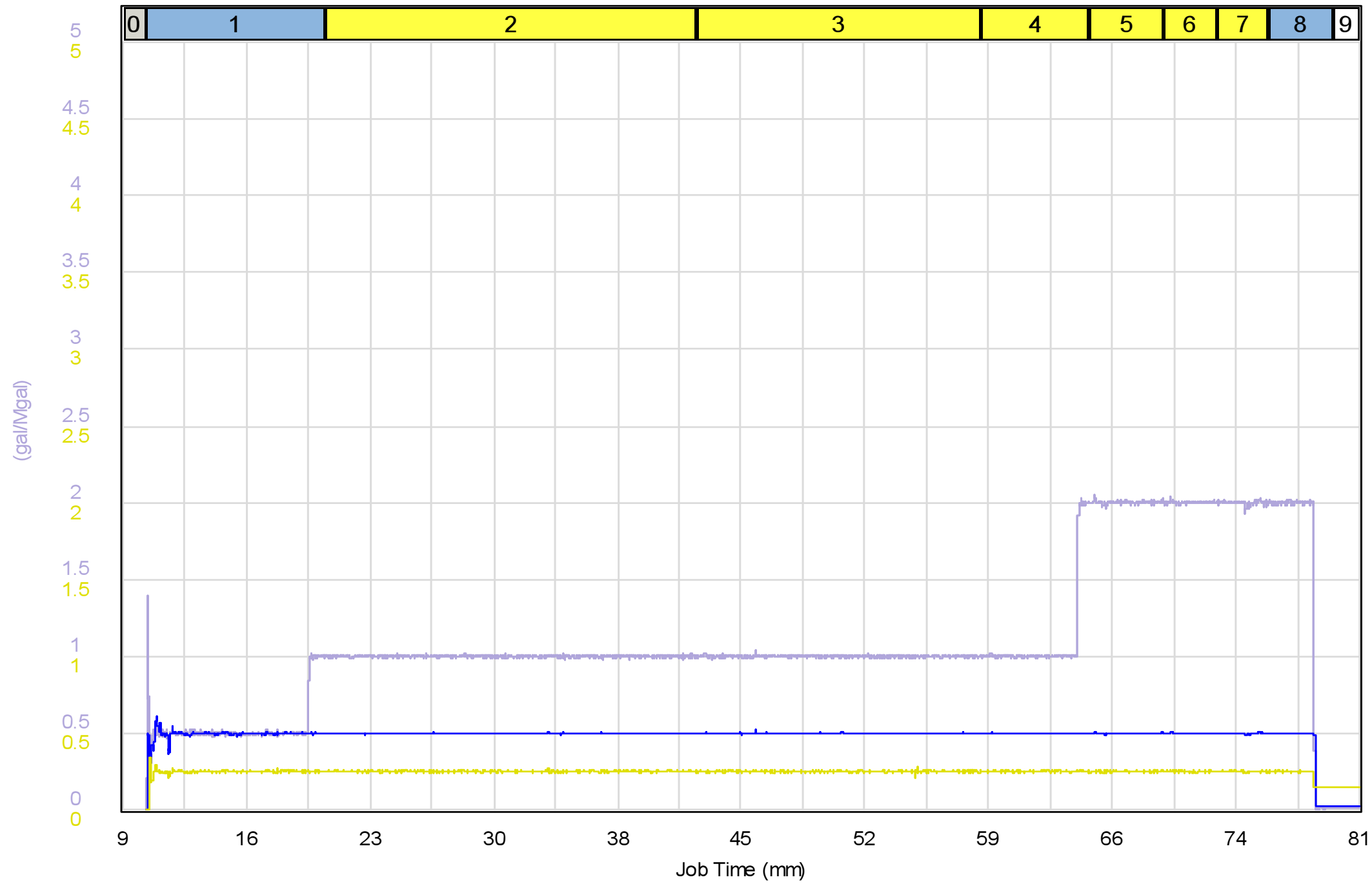
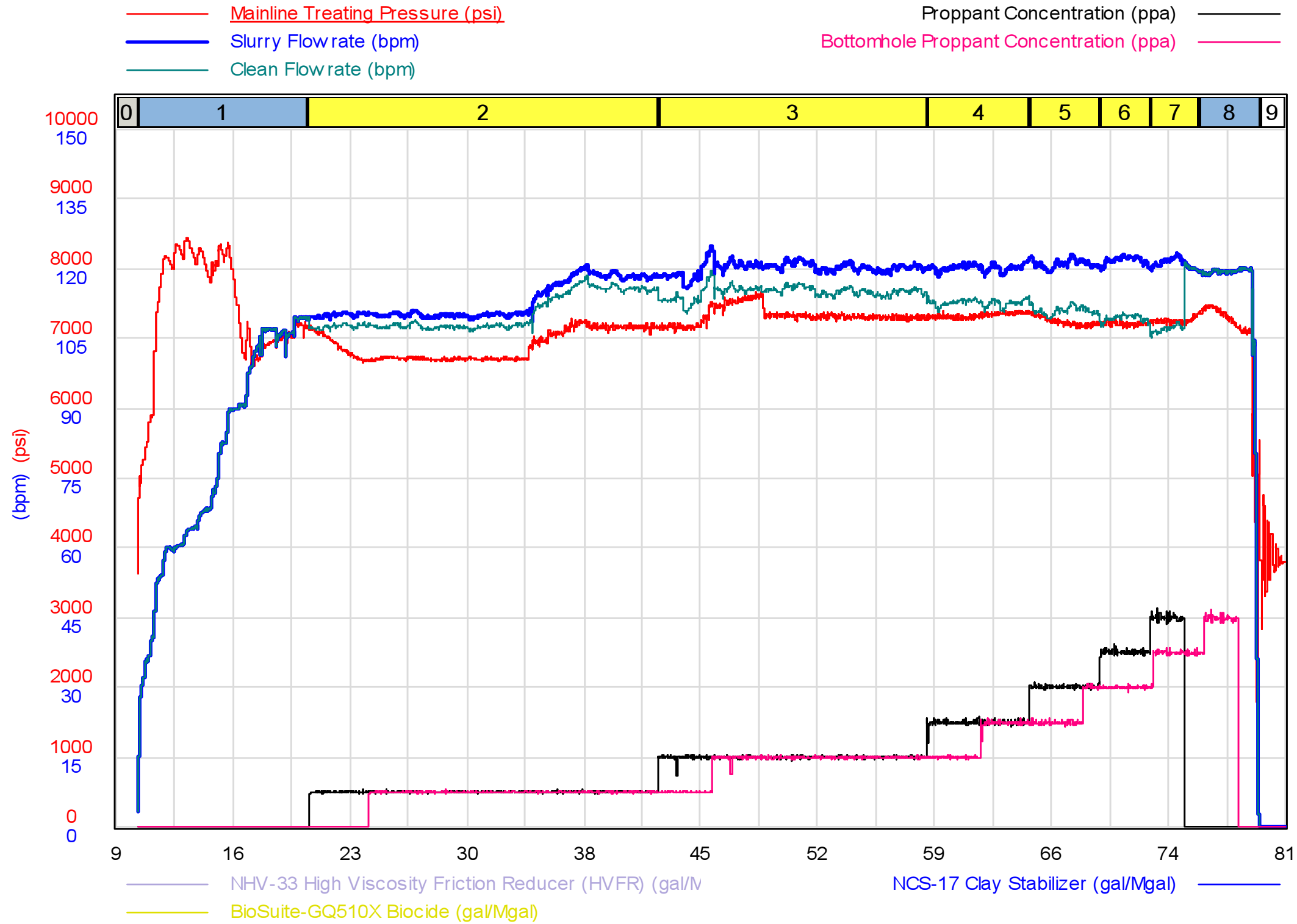


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	25.3	586		0.00	0
2	Acid	17.6	13		0.00	0
3	Pad	77.3	603		0.00	0
4	Slurry	105.0	893	40/70 Mesh	0.25	8,988
5	Slurry	107.6	854	40/70 Mesh	0.50	17,419
6	Slurry	107.9	1,895	40/70 Mesh	0.75	57,958
7	Slurry	108.3	1,441	40/70 Mesh	1.00	58,663
8	Slurry	110.0	971	40/70 Mesh	1.50	59,345
9	Slurry	114.2	733	40/70 Mesh	2.00	54,848
10	Flush	103.2	439		0.00	59
11		0.0	0		0.00	0
Totals			8,429			257,280

Top Perforation	17,388 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	17,525 (ft)	Clean Vol.	8,429 (bbls)
Clusters	8	40/70 Mesh	257,280 (lbs)
Total Perforations	32	Total Proppant	257,280 (lbs)
Avg. Rate	109.2 (bpm)		
Avg. Pressure	6,639 (psi)		
Max Rate	116.7 (bpm)		
Max Pressure	6,879 (psi)		

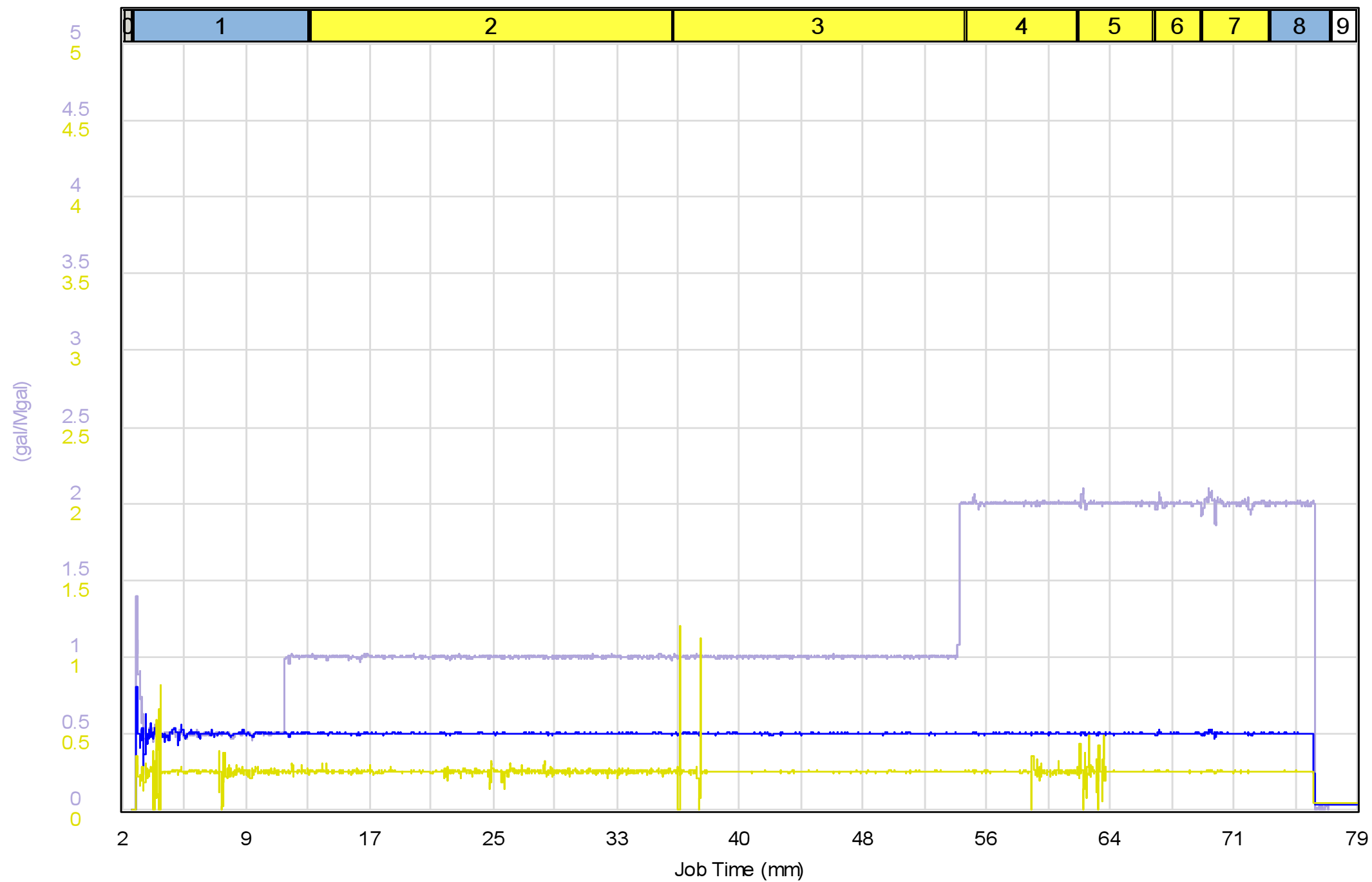
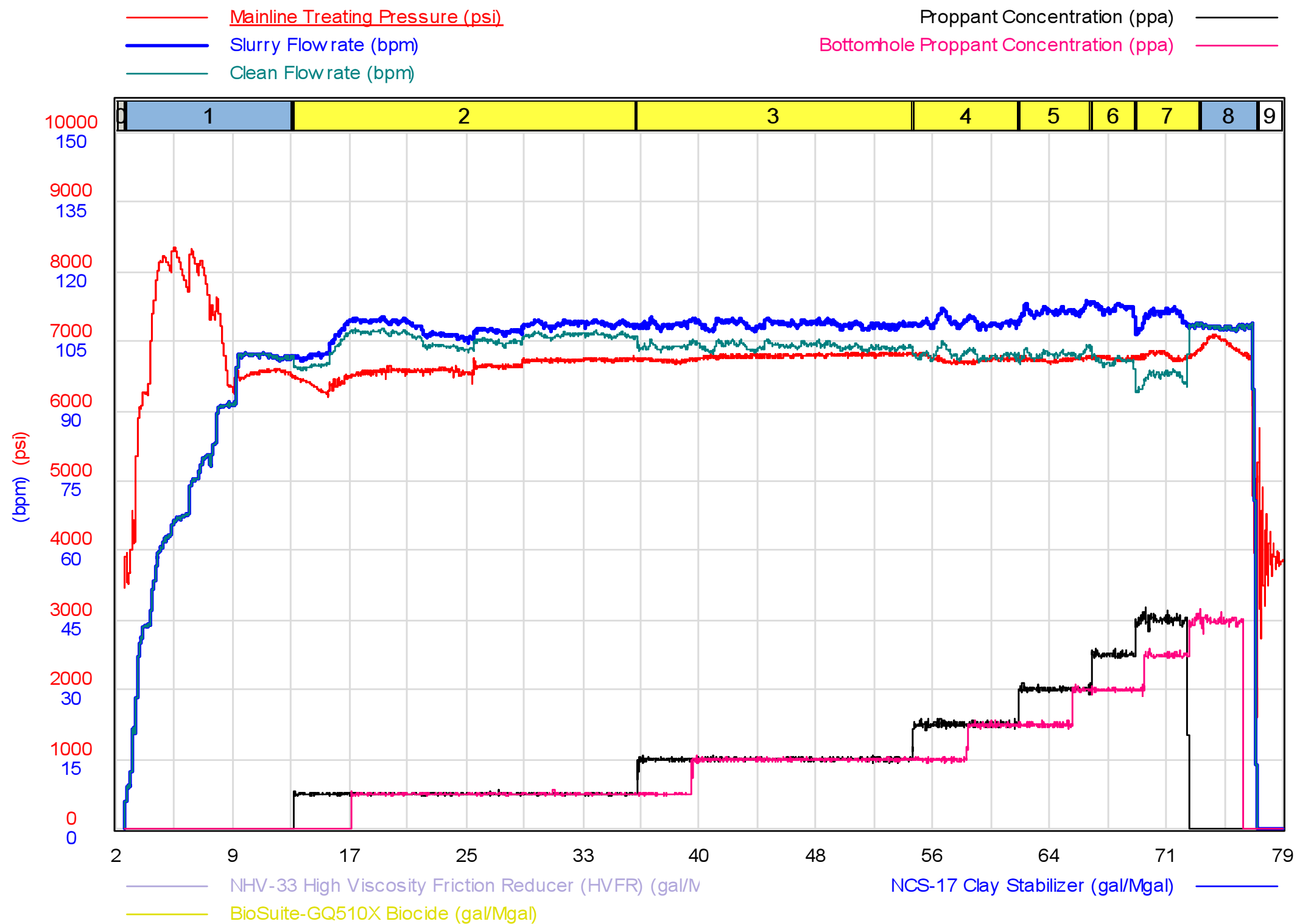
No NPT prior to stage. All proppant placed.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	79.3	835		0.00	0
2	Slurry	112.9	2,386	40/70 Mesh	0.50	49,984
3	Slurry	120.2	1,909	40/70 Mesh	1.00	80,140
4	Slurry	120.3	717	40/70 Mesh	1.50	45,081
5	Slurry	121.1	487	40/70 Mesh	2.00	40,847
6	Slurry	121.8	339	40/70 Mesh	2.50	35,619
7	Slurry	121.2	335	40/70 Mesh	3.00	28,550
8	Flush	112.5	422		0.00	0
9		0.0	0		0.00	0
Totals			7,430			280,220

Top Perforation	17,214 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	17,351 (ft)	Clean Vol.	7,430 (bbls)
Clusters	8	40/70 Mesh	280,220 (lbs)
Total Perforations	32	Total Proppant	280,220 (lbs)
Avg. Rate	118.2 (bpm)		
Avg. Pressure	7,170 (psi)		
Max Rate	124.9 (bpm)		
Max Pressure	7,668 (psi)		
No NPT prior to stage. All proppant placed.			

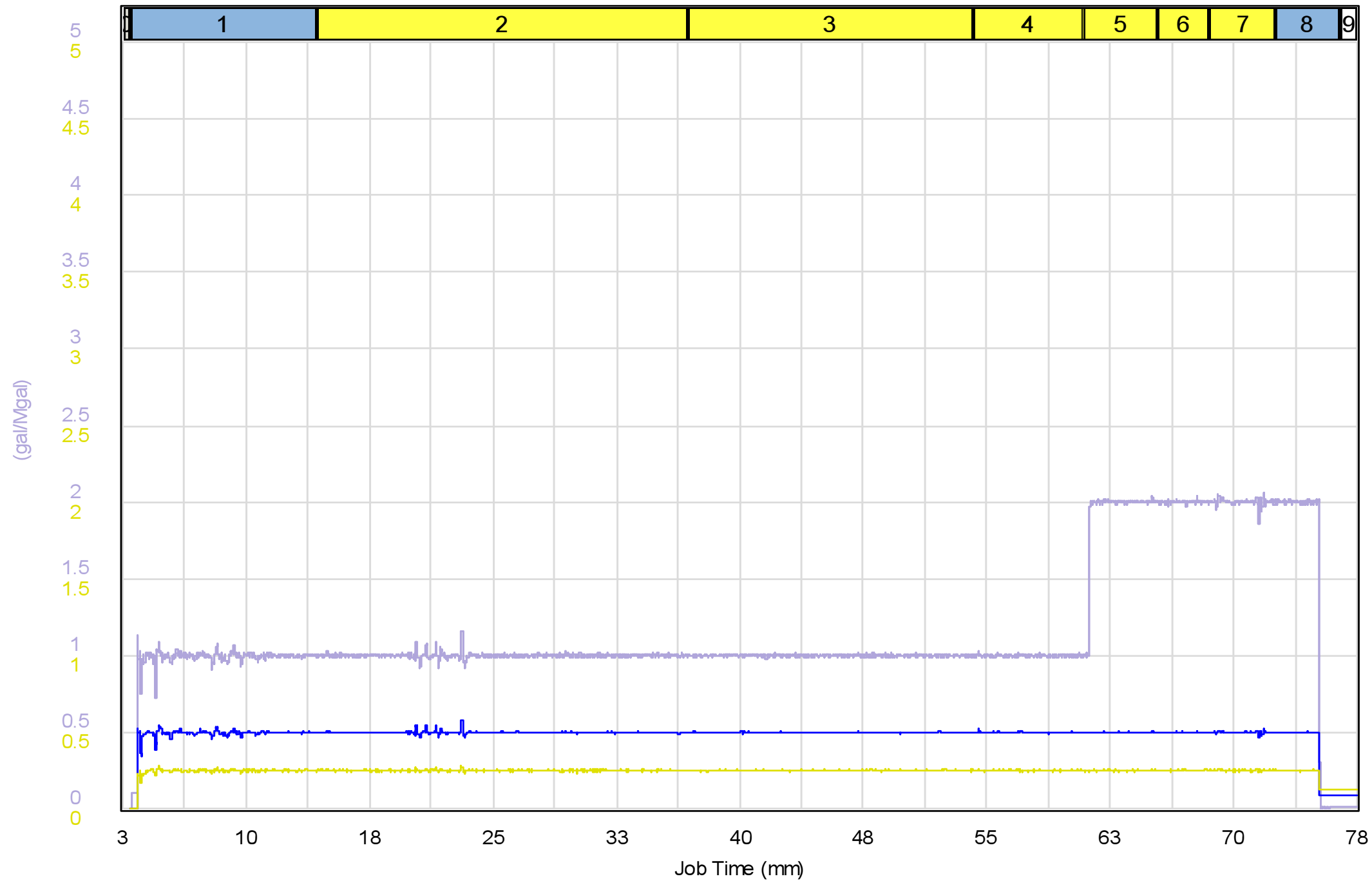
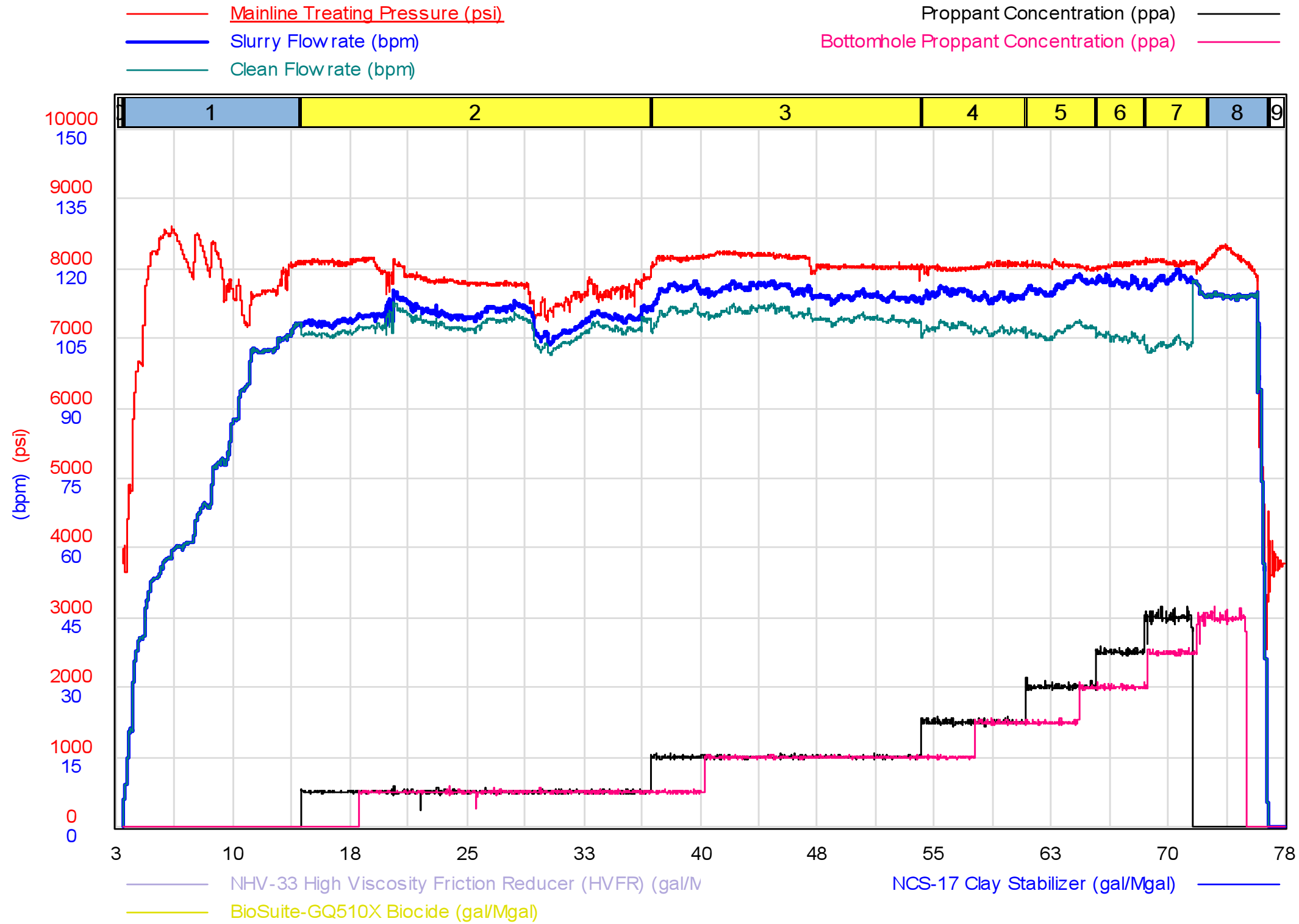


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	76.3	854		0.00	0
2	Slurry	107.5	2,403	40/70 Mesh	0.50	48,312
3	Slurry	108.7	1,909	40/70 Mesh	1.00	76,961
4	Slurry	109.1	724	40/70 Mesh	1.50	43,729
5	Slurry	111.6	493	40/70 Mesh	2.00	39,756
6	Slurry	112.3	294	40/70 Mesh	2.50	29,664
7	Slurry	110.0	426	40/70 Mesh	3.00	41,728
8	Flush	103.7	401		0.00	0
9		0.0	0		0.00	0
Totals			7,504			280,150

Top Perforation	17,039 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	17,176 (ft)	Clean Vol.	7,504 (bbls)
Clusters	8	40/70 Mesh	280,150 (lbs)
Total Perforations	32	Total Proppant	280,150 (lbs)
Avg. Rate	109.1 (bpm)		
Avg. Pressure	6,742 (psi)		
Max Rate	114.0 (bpm)		
Max Pressure	7,102 (psi)		

Pumped as directed by customer representative.

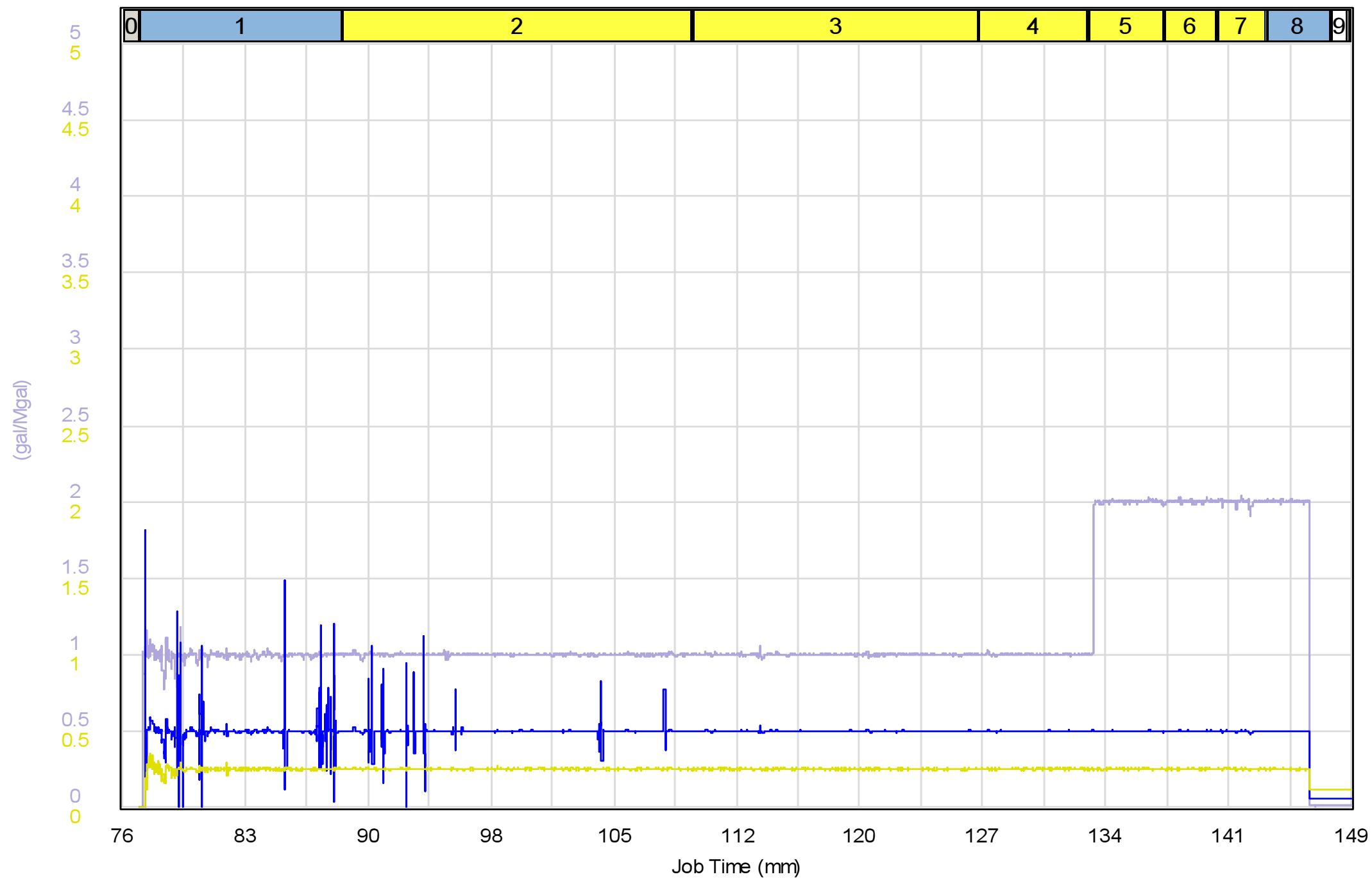
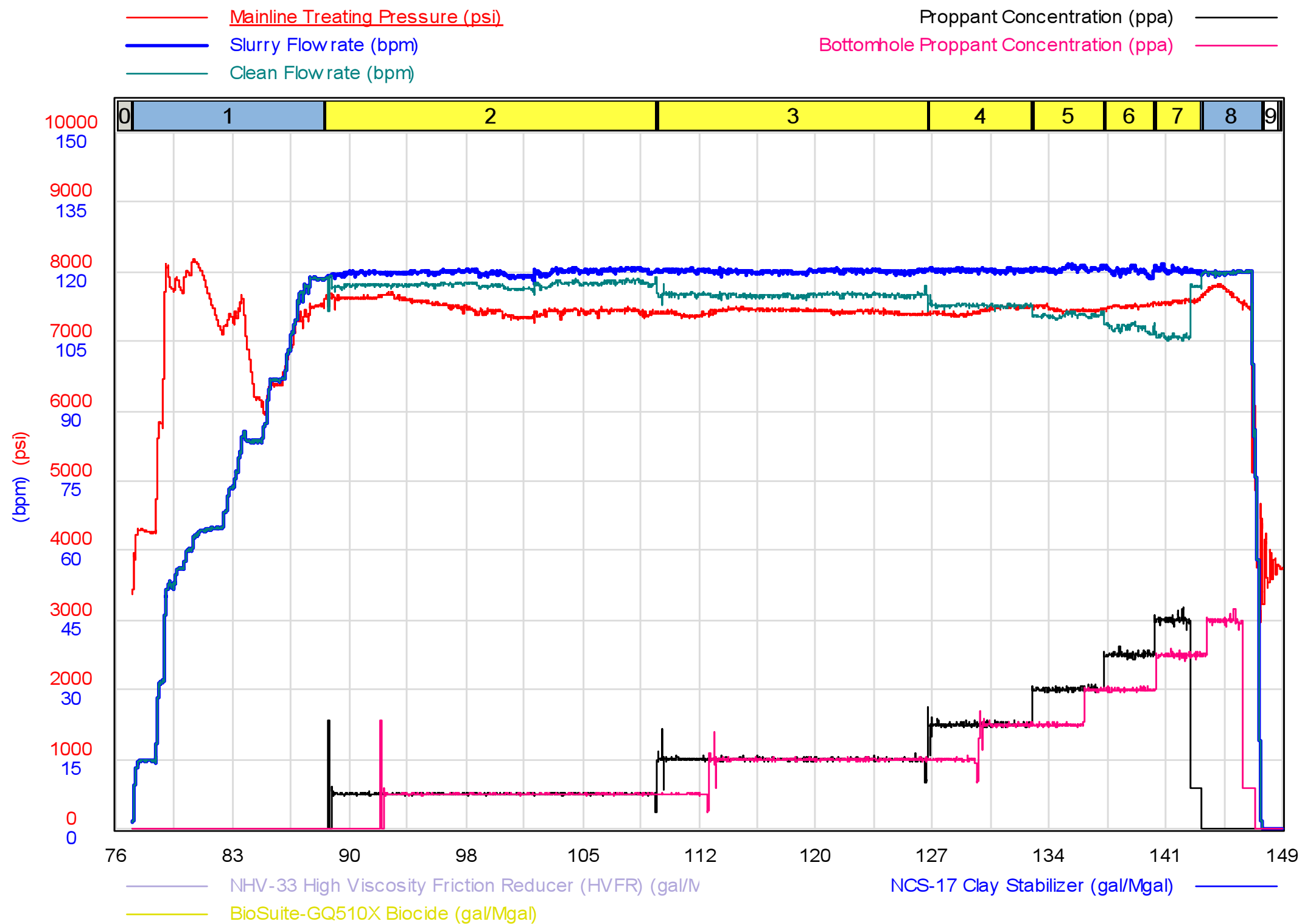


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	73.9	830		0.00	0
2	Slurry	109.7	2,401	40/70 Mesh	0.50	48,967
3	Slurry	115.0	1,898	40/70 Mesh	1.00	77,989
4	Slurry	114.4	709	40/70 Mesh	1.50	43,680
5	Slurry	116.3	480	40/70 Mesh	2.00	39,413
6	Slurry	117.2	332	40/70 Mesh	2.50	34,077
7	Slurry	117.3	426	40/70 Mesh	3.00	38,853
8	Flush	103.9	407		0.00	0
9		0.0	0		0.00	0
Totals			7,483			282,980

Top Perforation	16,864 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	17,001 (ft)	Clean Vol.	7,483 (bbls)
Clusters	8	40/70 Mesh	282,980 (lbs)
Total Perforations	32	Total Proppant	282,980 (lbs)
Avg. Rate	113.6 (bpm)		
Avg. Pressure	7,978 (psi)		
Max Rate	119.9 (bpm)		
Max Pressure	8,338 (psi)		

Pumped as directed by customer representative.

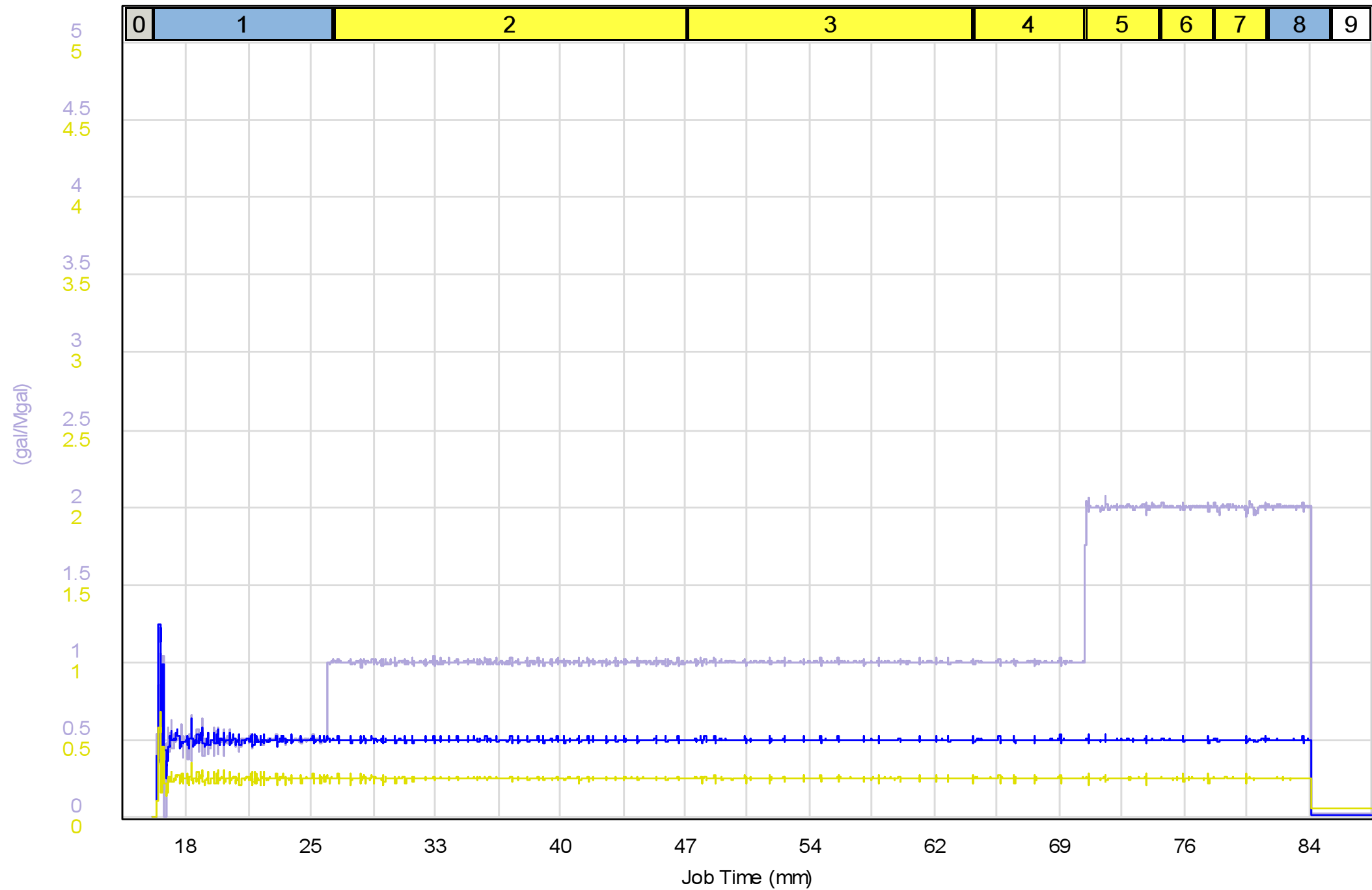
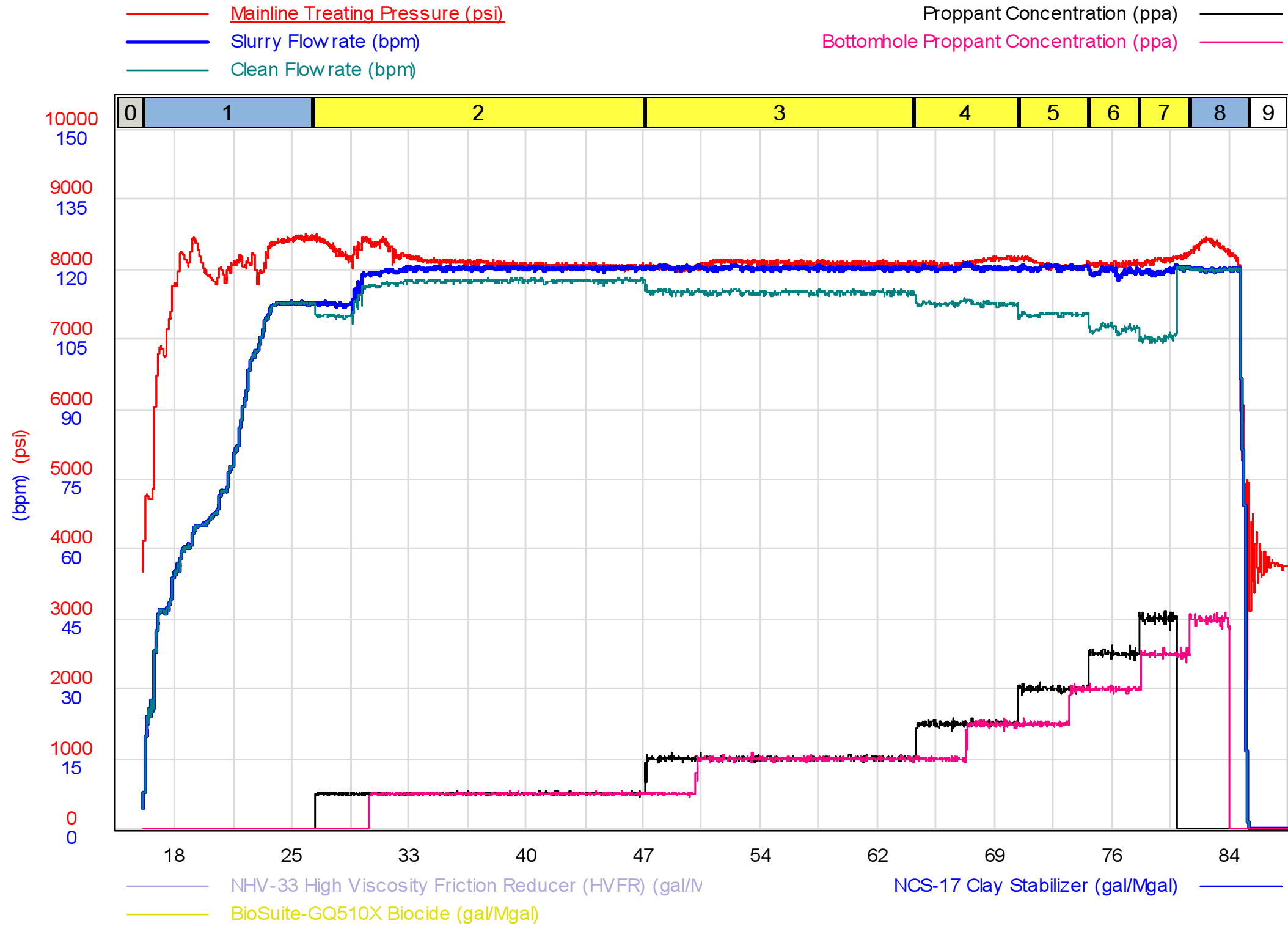


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	71.7	859		0.00	0
2	Slurry	119.9	2,434	40/70 Mesh	0.50	49,176
3	Slurry	120.2	1,942	40/70 Mesh	1.00	79,200
4	Slurry	120.4	737	40/70 Mesh	1.50	45,188
5	Slurry	120.7	492	40/70 Mesh	2.00	40,328
6	Slurry	120.2	344	40/70 Mesh	2.50	35,164
7	Slurry	120.4	321	40/70 Mesh	3.00	31,316
8	Flush	108.5	409		0.00	46
9		0.0	0		0.00	0
10		0.0	0		0.00	0
Totals			7,537			280,420

Top Perforation	16,689 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	16,826 (ft)	Clean Vol.	7,537 (bbls)
Clusters	8	40/70 Mesh	280,420 (lbs)
Total Perforations	32	Total Proppant	280,420 (lbs)
Avg. Rate	120.2 (bpm)		
Avg. Pressure	7,460 (psi)		
Max Rate	121.8 (bpm)		
Max Pressure	7,833 (psi)		

1.28 HR of NPT due to blender maintenance. Stage pumped by design. All proppant placed.

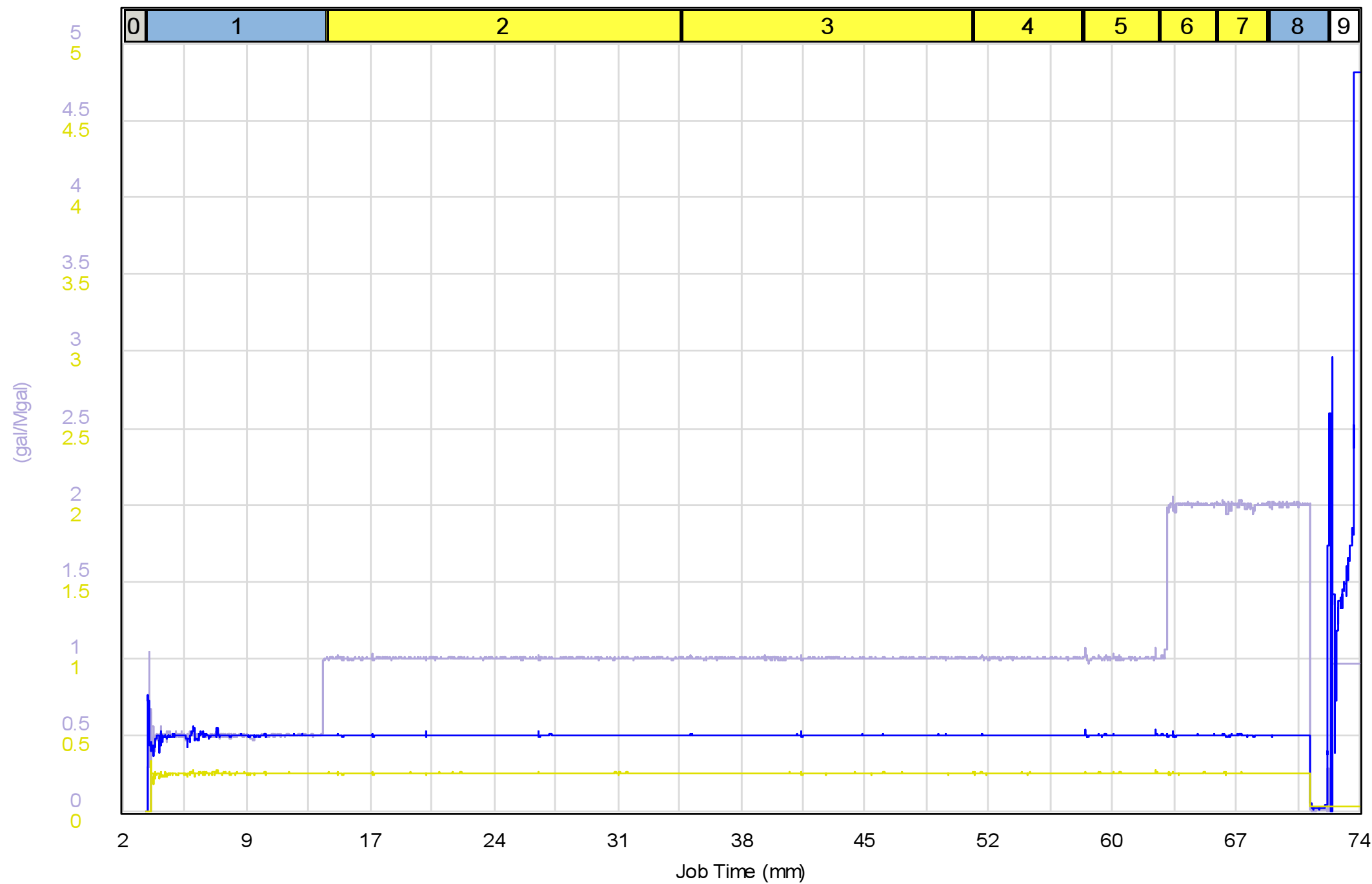
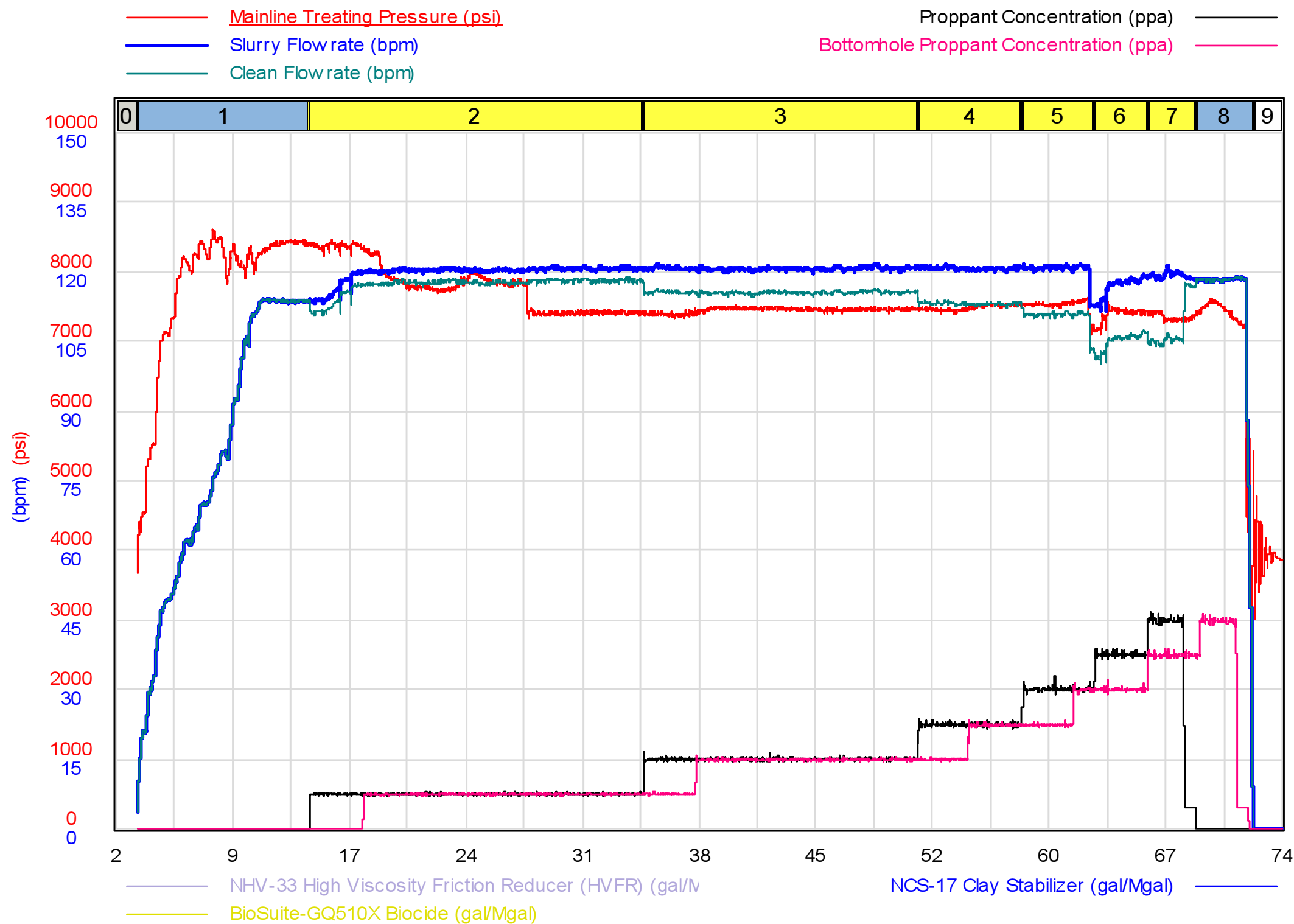


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	79.5	843		0.00	0
2	Slurry	119.1	2,405	40/70 Mesh	0.50	49,382
3	Slurry	120.3	1,937	40/70 Mesh	1.00	79,793
4	Slurry	120.3	728	40/70 Mesh	1.50	44,899
5	Slurry	120.4	484	40/70 Mesh	2.00	39,853
6	Slurry	119.5	335	40/70 Mesh	2.50	34,445
7	Slurry	119.8	354	40/70 Mesh	3.00	32,068
8	Flush	110.5	402		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,489			280,440

Top Perforation	16,515 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	16,652 (ft)	Clean Vol.	7,489 (bbls)
Clusters	8	40/70 Mesh	280,440 (lbs)
Total Perforations	32	Total Proppant	280,440 (lbs)
Avg. Rate	120.2 (bpm)		
Avg. Pressure	8,105 (psi)		
Max Rate	121.4 (bpm)		
Max Pressure	8,461 (psi)		

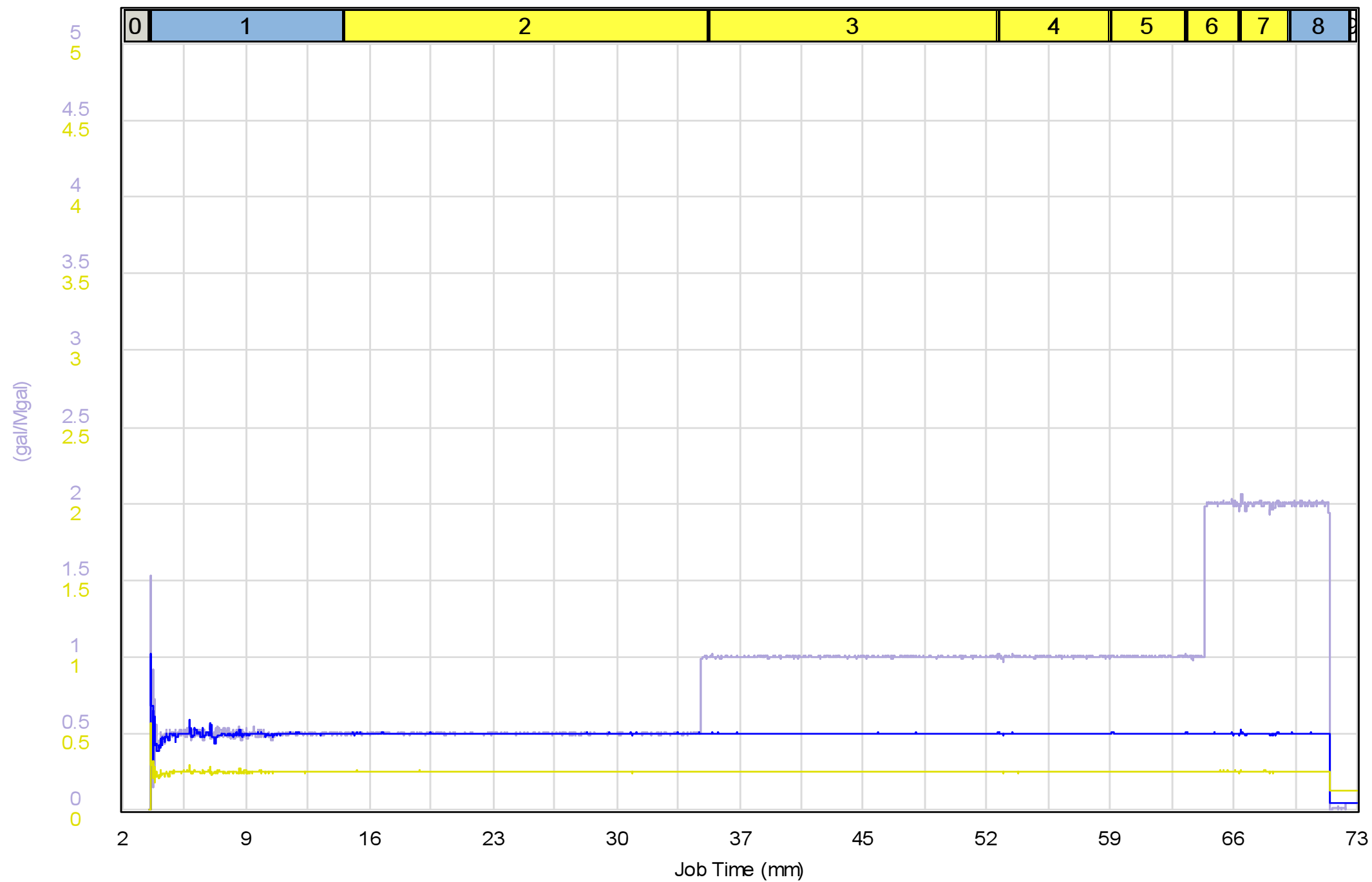
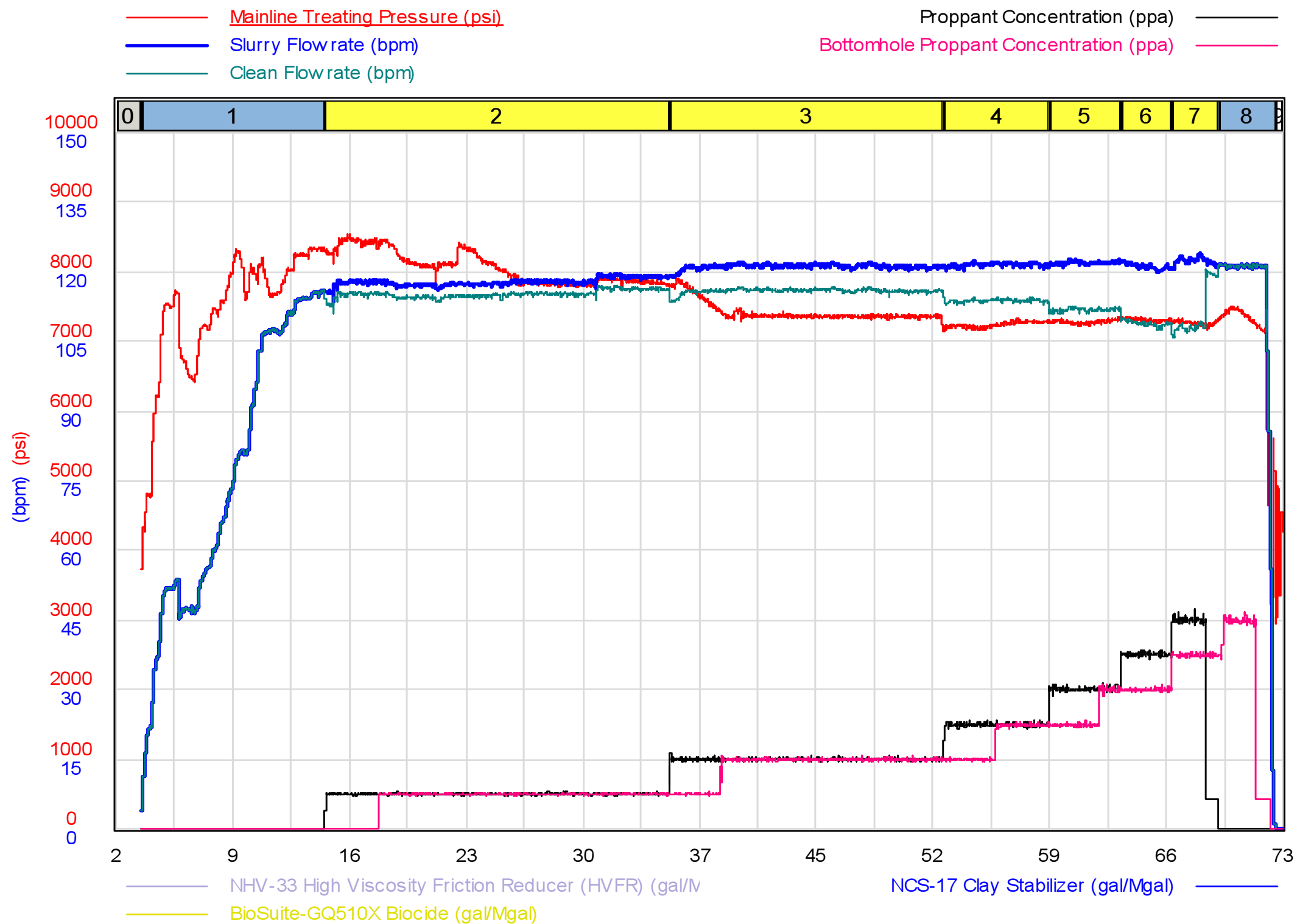
No NPT prior to stage. All proppant placed.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	80.2	846		0.00	0
2	Slurry	119.9	2,407	40/70 Mesh	0.50	49,527
3	Slurry	120.8	1,942	40/70 Mesh	1.00	80,036
4	Slurry	120.9	734	40/70 Mesh	1.50	45,297
5	Slurry	120.4	488	40/70 Mesh	2.00	40,240
6	Slurry	116.9	341	40/70 Mesh	2.50	35,187
7	Slurry	119.3	322	40/70 Mesh	3.00	30,801
8	Flush	109.3	394		0.00	24
9	Shut In	0.0	0		0.00	0
Totals			7,473			281,111

Top Perforation	16,340 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	16,477 (ft)	Clean Vol.	7,473 (bbls)
Clusters	8	40/70 Mesh	281,111 (lbs)
Total Perforations	32	Total Proppant	281,111 (lbs)
Avg. Rate	120.2 (bpm)		
Avg. Pressure	7,527 (psi)		
Max Rate	121.8 (bpm)		
Max Pressure	8,362 (psi)		
No NPT prior to stage. All proppant placed.			

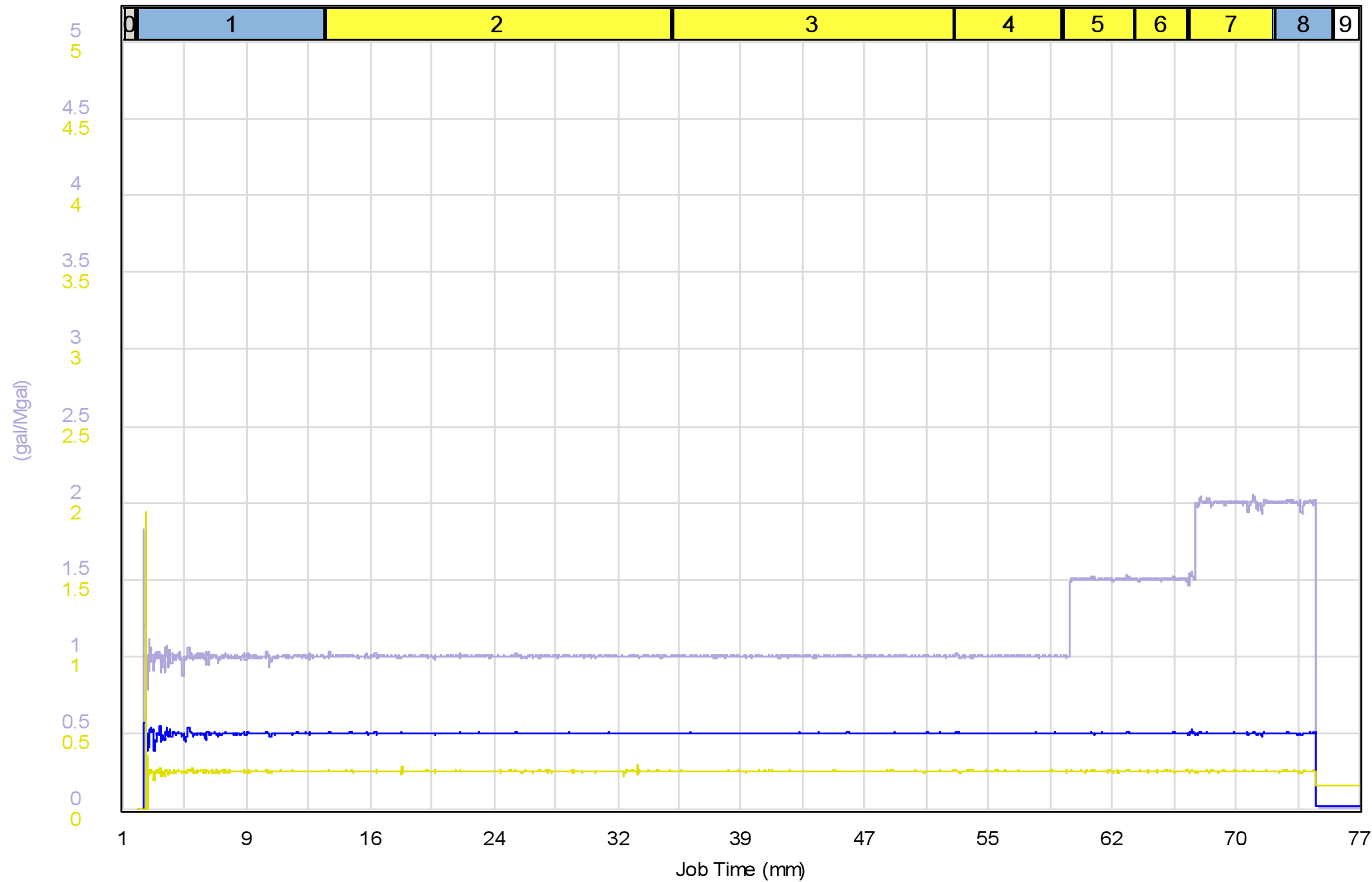
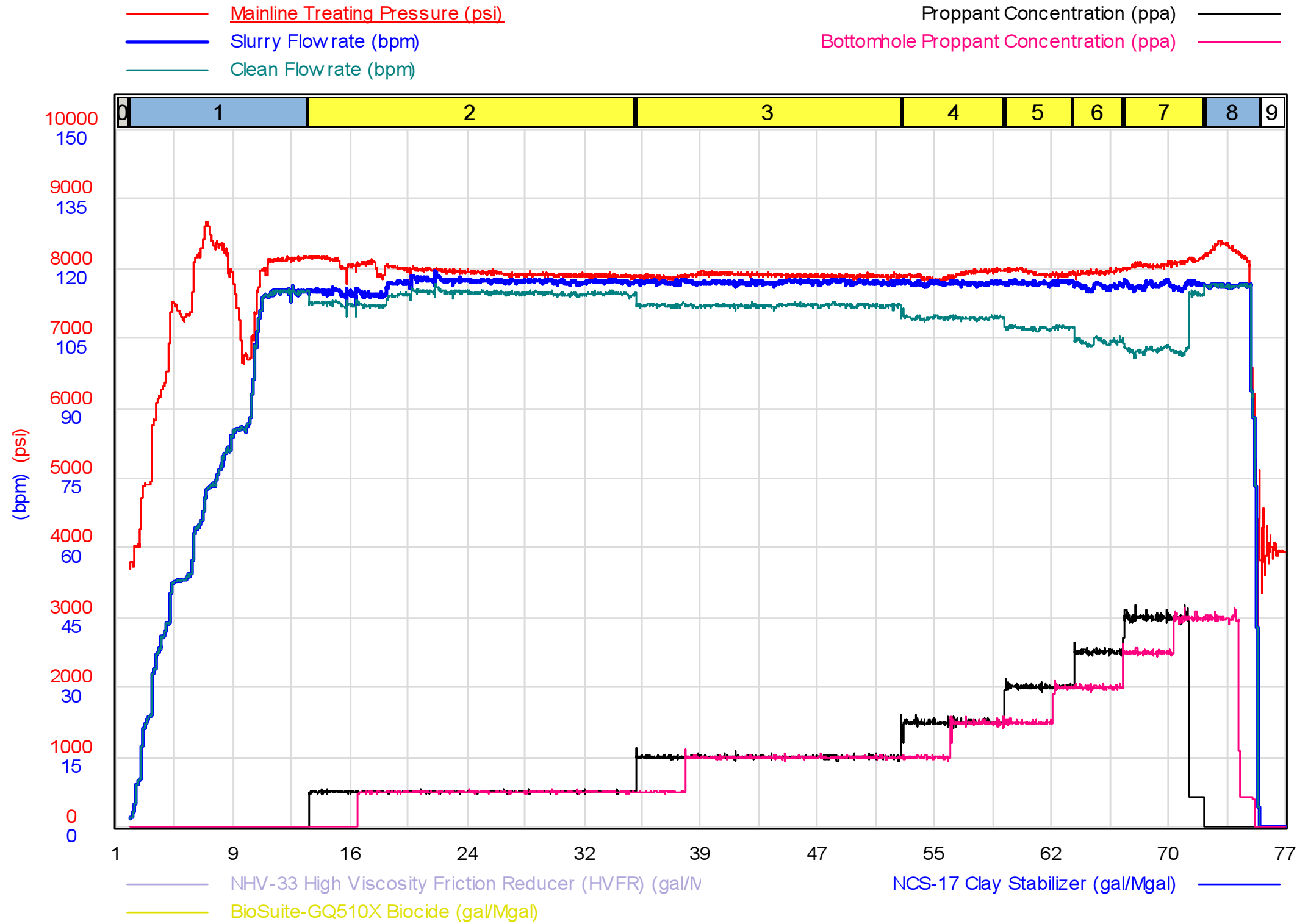


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	76.6	849		0.00	0
2	Slurry	117.9	2,409	40/70 Mesh	0.50	50,080
3	Slurry	121.2	1,928	40/70 Mesh	1.00	80,289
4	Slurry	121.5	726	40/70 Mesh	1.50	45,311
5	Slurry	121.9	486	40/70 Mesh	2.00	40,516
6	Slurry	121.2	339	40/70 Mesh	2.50	35,335
7	Slurry	122.3	311	40/70 Mesh	3.00	28,883
8	Flush	111.3	386		0.00	35
9		0.0	0		0.00	0
Totals			7,436			280,449

Top Perforation	16,165 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	16,302 (ft)	Clean Vol.	7,436 (bbls)
Clusters	8	40/70 Mesh	280,449 (lbs)
Total Perforations	32	Total Proppant	280,449 (lbs)
Avg. Rate	120.3 (bpm)		
Avg. Pressure	7,569 (psi)		
Max Rate	124.1 (bpm)		
Max Pressure	8,479 (psi)		

Pumped as directed by customer representative.

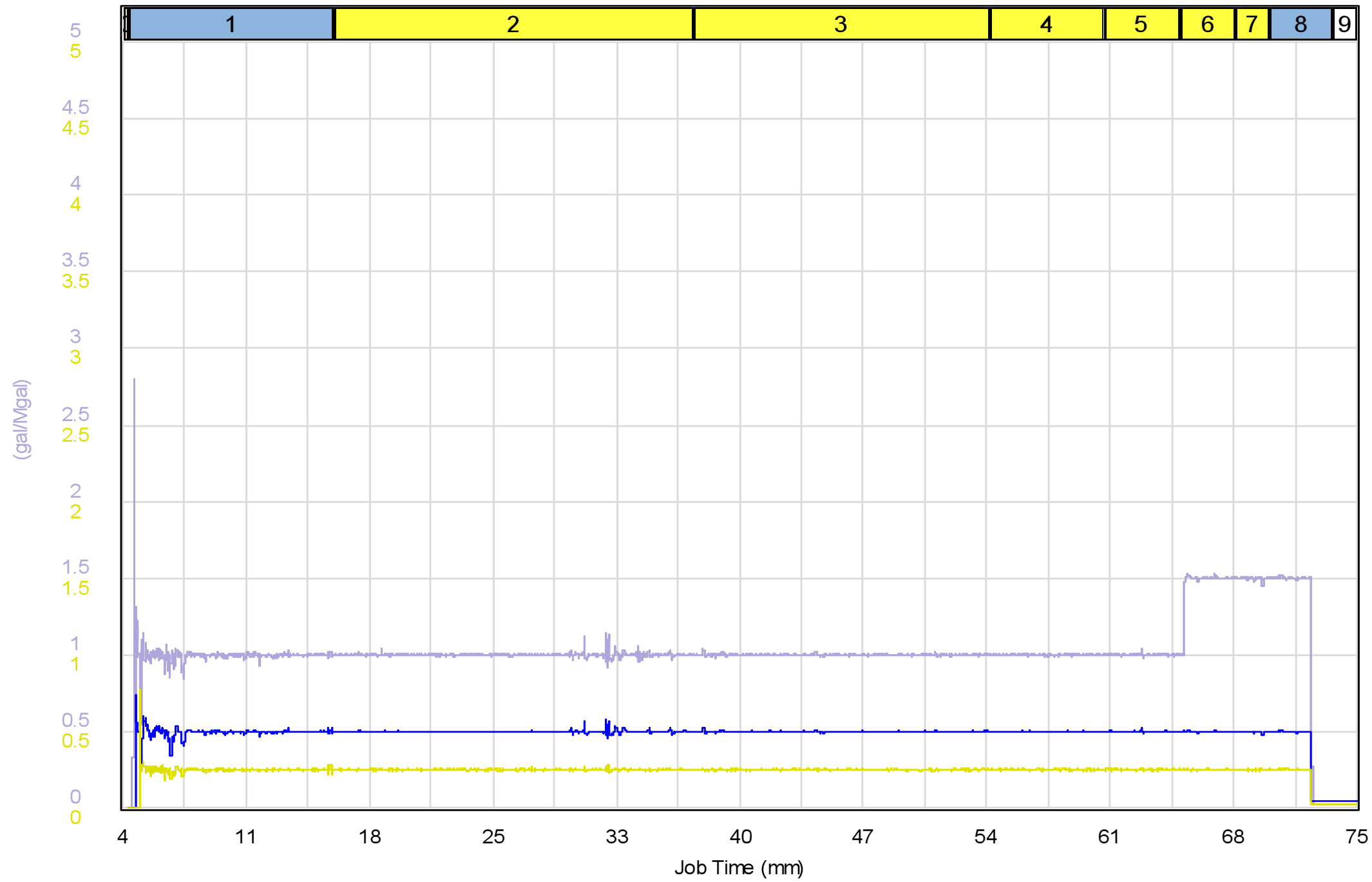
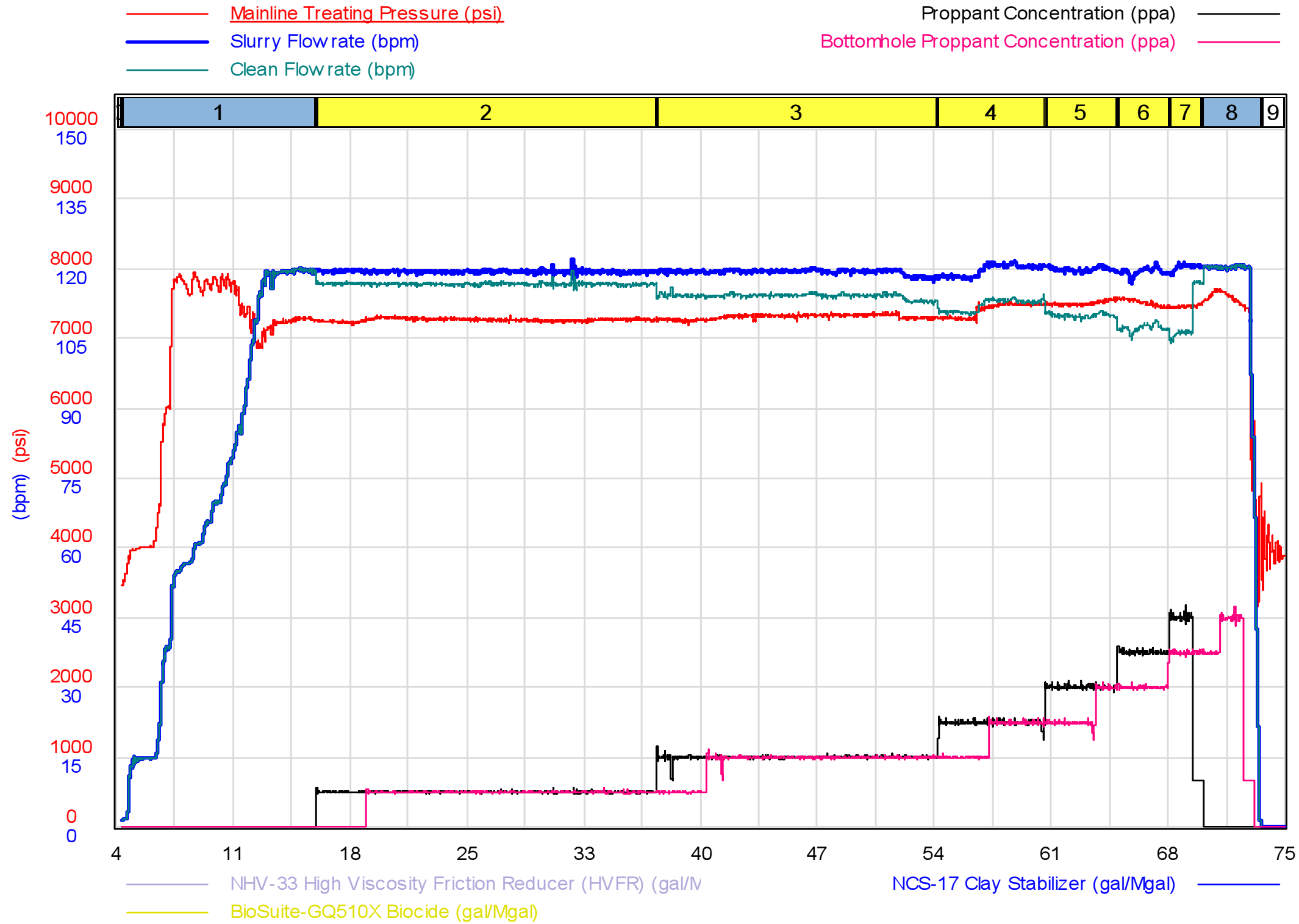


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	73.6	852		0.00	0
2	Slurry	116.8	2,447	40/70 Mesh	0.50	49,758
3	Slurry	117.1	1,943	40/70 Mesh	1.00	79,184
4	Slurry	116.9	732	40/70 Mesh	1.50	44,638
5	Slurry	117.1	488	40/70 Mesh	2.00	39,684
6	Slurry	116.2	343	40/70 Mesh	2.50	34,850
7	Slurry	116.5	547	40/70 Mesh	3.00	55,972
8	Flush	107.4	394		0.00	34
9		0.0	0		0.00	0
Totals			7,746			304,119

Top Perforation	15,991 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	16,127 (ft)	Clean Vol.	7,746 (bbls)
Clusters	8	40/70 Mesh	304,119 (lbs)
Total Perforations	32	Total Proppant	304,119 (lbs)
Avg. Rate	117.0 (bpm)		
Avg. Pressure	7,945 (psi)		
Max Rate	119.5 (bpm)		
Max Pressure	8,386 (psi)		

Pumped as directed by customer representative.

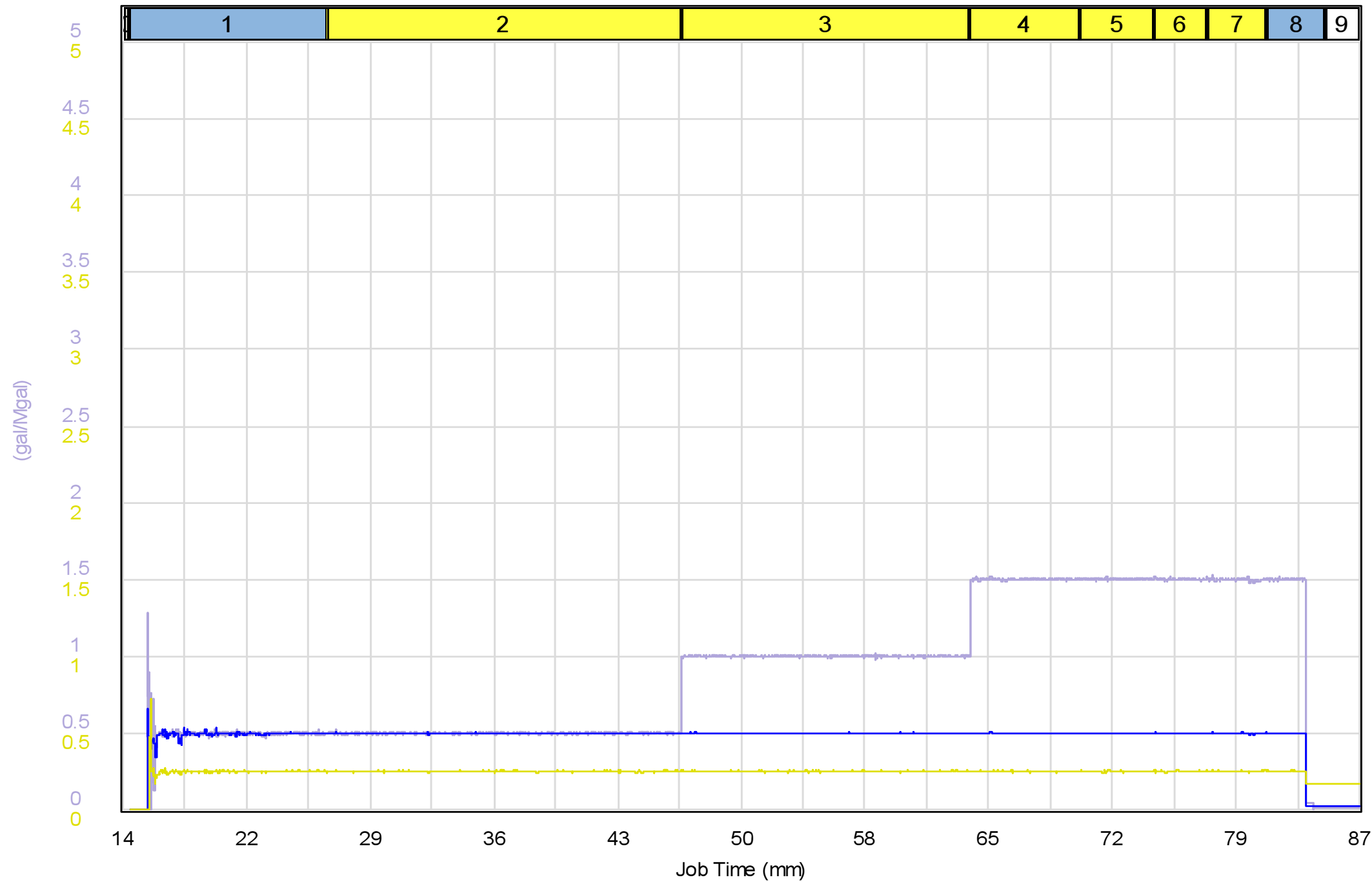
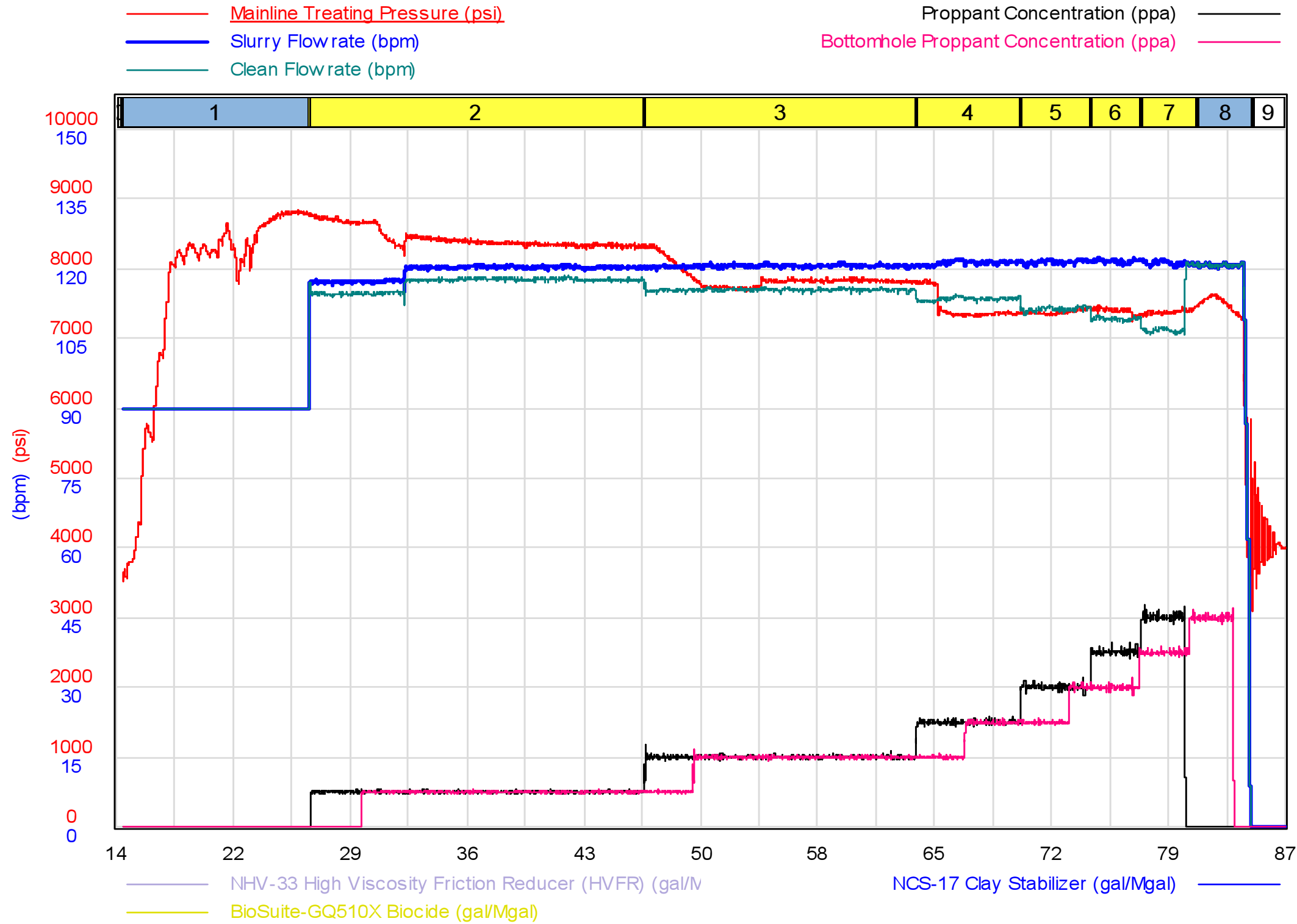


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pumpdown	72.3	856		0.00	0
2	Slurry	119.4	2,433	40/70 Mesh	0.50	51,551
3	Slurry	119.4	1,960	40/70 Mesh	1.00	83,039
4	Slurry	119.8	735	40/70 Mesh	1.50	46,624
5	Slurry	119.9	489	40/70 Mesh	2.00	41,500
6	Slurry	119.4	340	40/70 Mesh	2.50	36,031
7	Slurry	120.4	224	40/70 Mesh	3.00	21,520
8	Flush	108.8	385		0.00	54
9		0.0	0		0.00	0
Totals			7,422			280,320

Top Perforation	15,816 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	15,953 (ft)	Clean Vol.	7,422 (bbls)
Clusters	8	40/70 Mesh	280,320 (lbs)
Total Perforations	32	Total Proppant	280,320 (lbs)
Avg. Rate	119.5 (bpm)		
Avg. Pressure	7,349 (psi)		
Max Rate	122.2 (bpm)		
Max Pressure	7,710 (psi)		

No NPT. Stage pumped by design. All proppant placed.

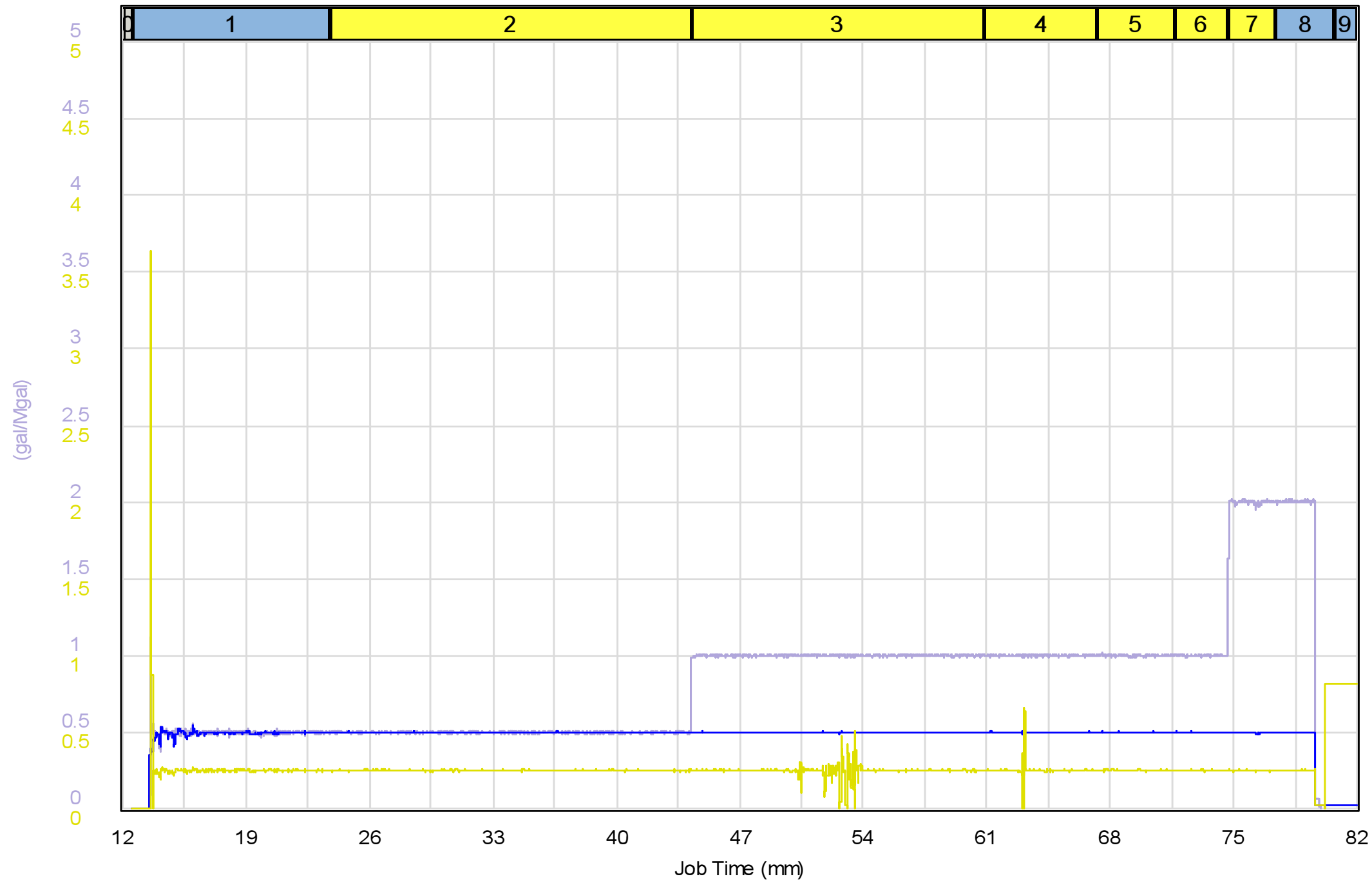
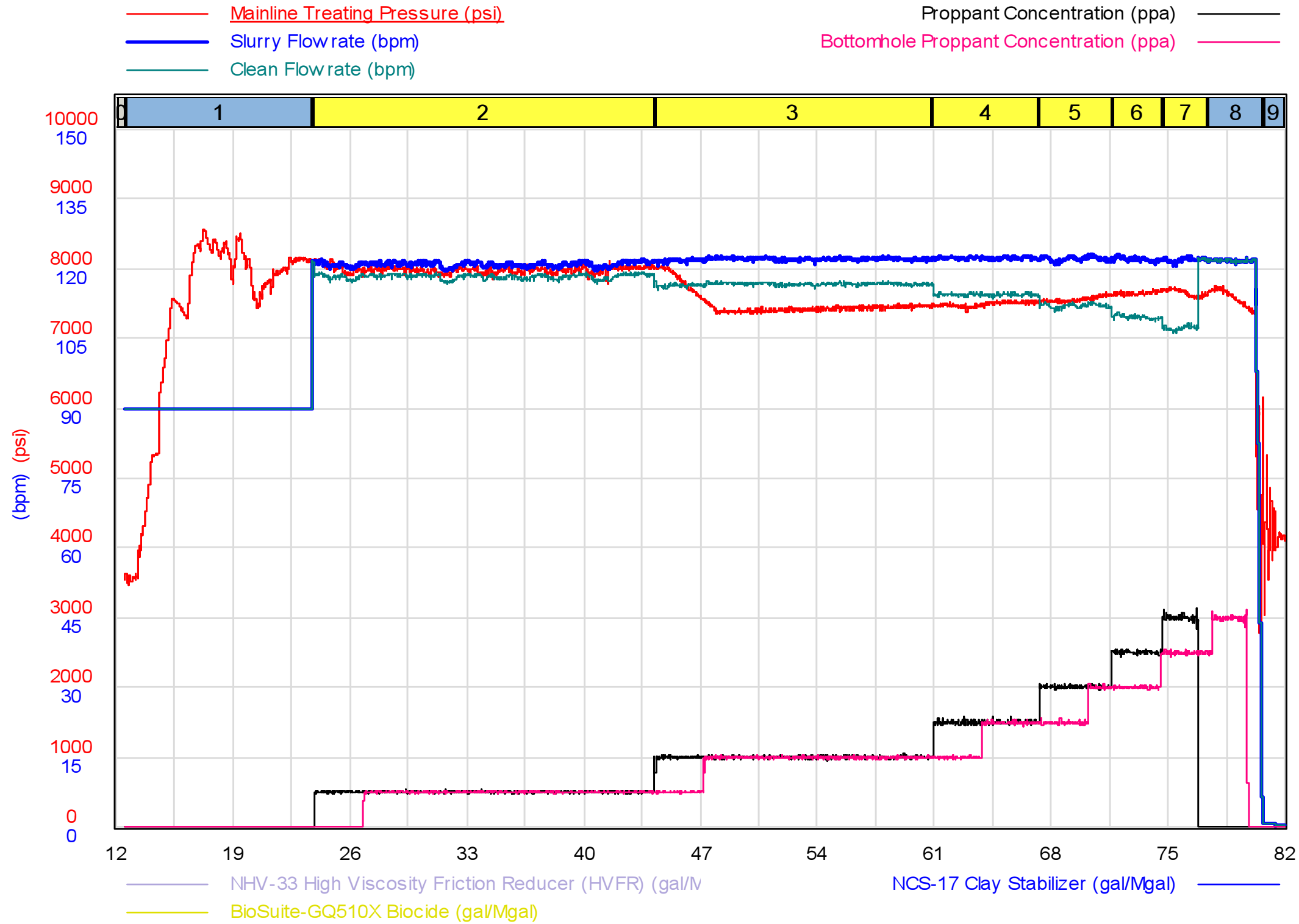


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	90.0	1,037		0.00	0
2	Slurry	119.5	2,413	40/70 Mesh	0.50	48,652
3	Slurry	120.7	1,941	40/70 Mesh	1.00	78,559
4	Slurry	121.3	731	40/70 Mesh	1.50	44,313
5	Slurry	121.5	486	40/70 Mesh	2.00	39,354
6	Slurry	121.6	342	40/70 Mesh	2.50	34,606
7	Slurry	121.3	379	40/70 Mesh	3.00	34,965
8	Flush	110.5	378		0.00	0
9		0.0	0		0.00	0
Totals			7,707			280,450

Top Perforation	15,641 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	15,778 (ft)	Clean Vol.	7,707 (bbls)
Clusters	8	40/70 Mesh	280,450 (lbs)
Total Perforations	32	Total Proppant	280,450 (lbs)
Avg. Rate	120.7 (bpm)		
Avg. Pressure	7,879 (psi)		
Max Rate	122.4 (bpm)		
Max Pressure	8,699 (psi)		

No NPT. Stage pumped by design. All proppant placed.

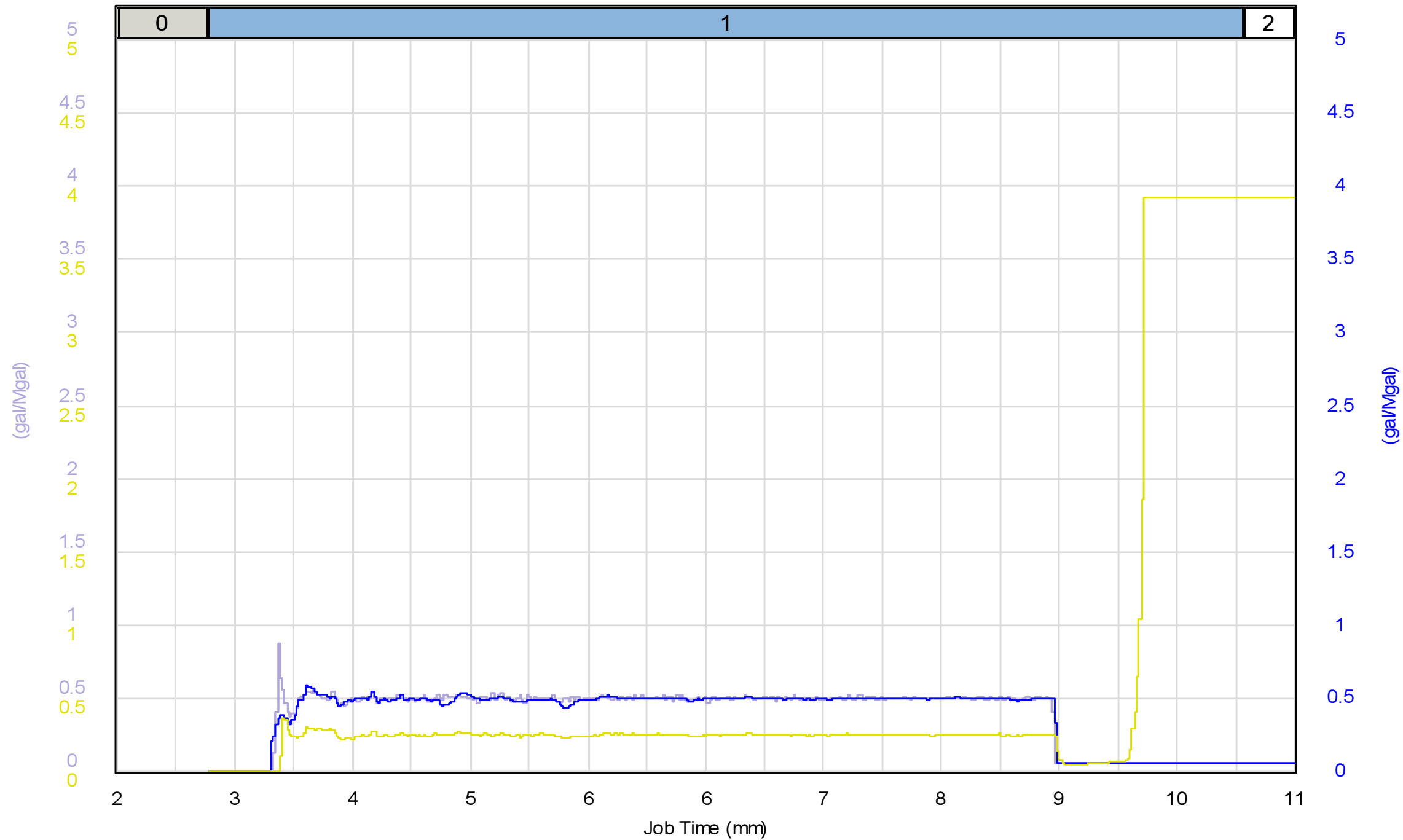
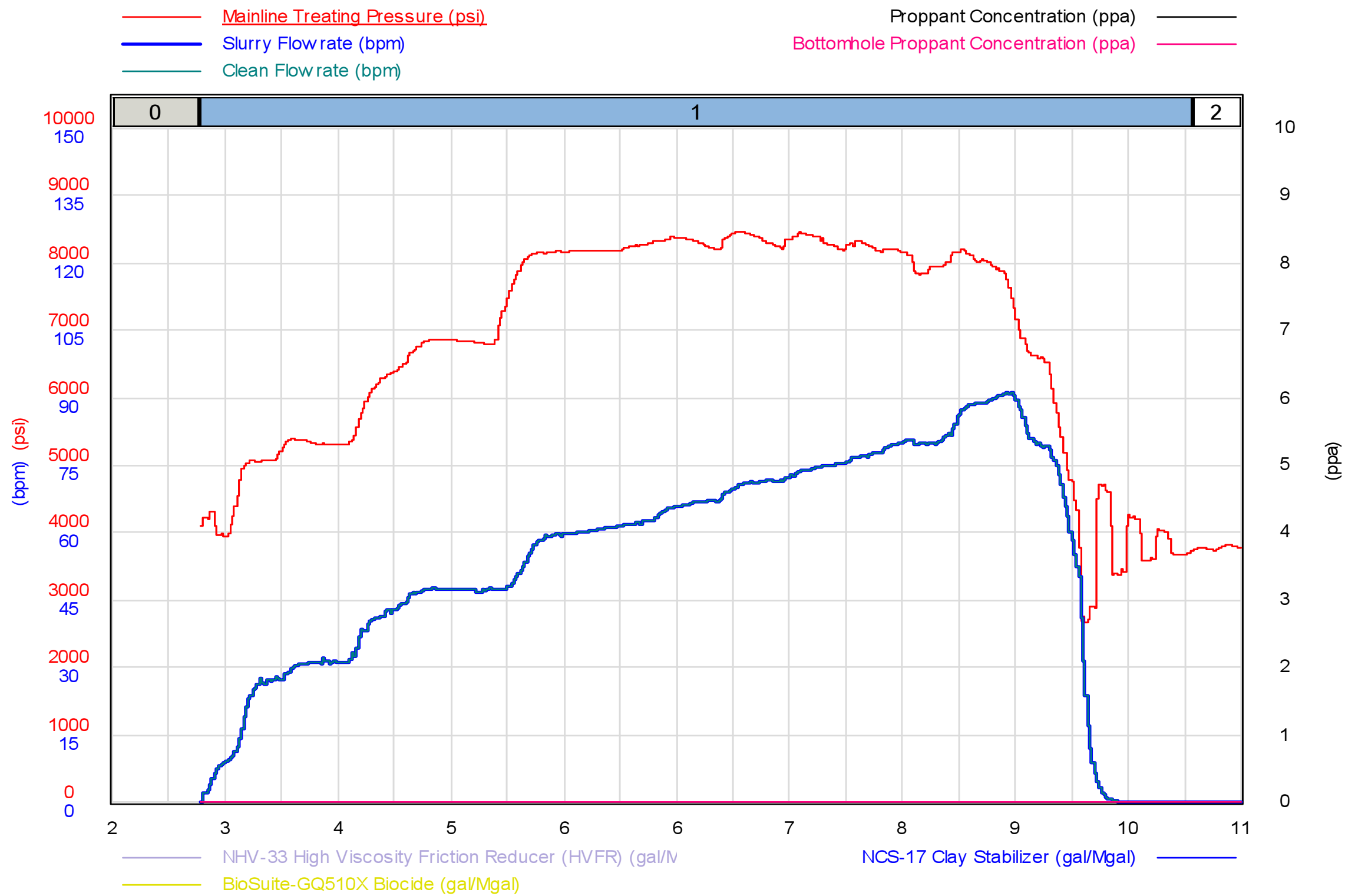


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	90.0	1,010		0.00	0
2	Slurry	121.0	2,417	40/70 Mesh	0.50	50,242
3	Slurry	122.0	1,942	40/70 Mesh	1.00	80,908
4	Slurry	122.3	731	40/70 Mesh	1.50	45,606
5	Slurry	122.1	484	40/70 Mesh	2.00	40,257
6	Slurry	122.0	338	40/70 Mesh	2.50	35,152
7	Slurry	121.9	300	40/70 Mesh	3.00	28,534
8	Flush	113.3	374		0.00	0
9	Shut In	0.4	1		0.00	0
Totals			7,597			280,699

Top Perforation	15,466 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	15,603 (ft)	Clean Vol.	7,597 (bbls)
Clusters	8	40/70 Mesh	280,699 (lbs)
Total Perforations	32	Total Proppant	280,699 (lbs)
Avg. Rate	121.7 (bpm)		
Avg. Pressure	7,686 (psi)		
Max Rate	123.2 (bpm)		
Max Pressure	8,124 (psi)		

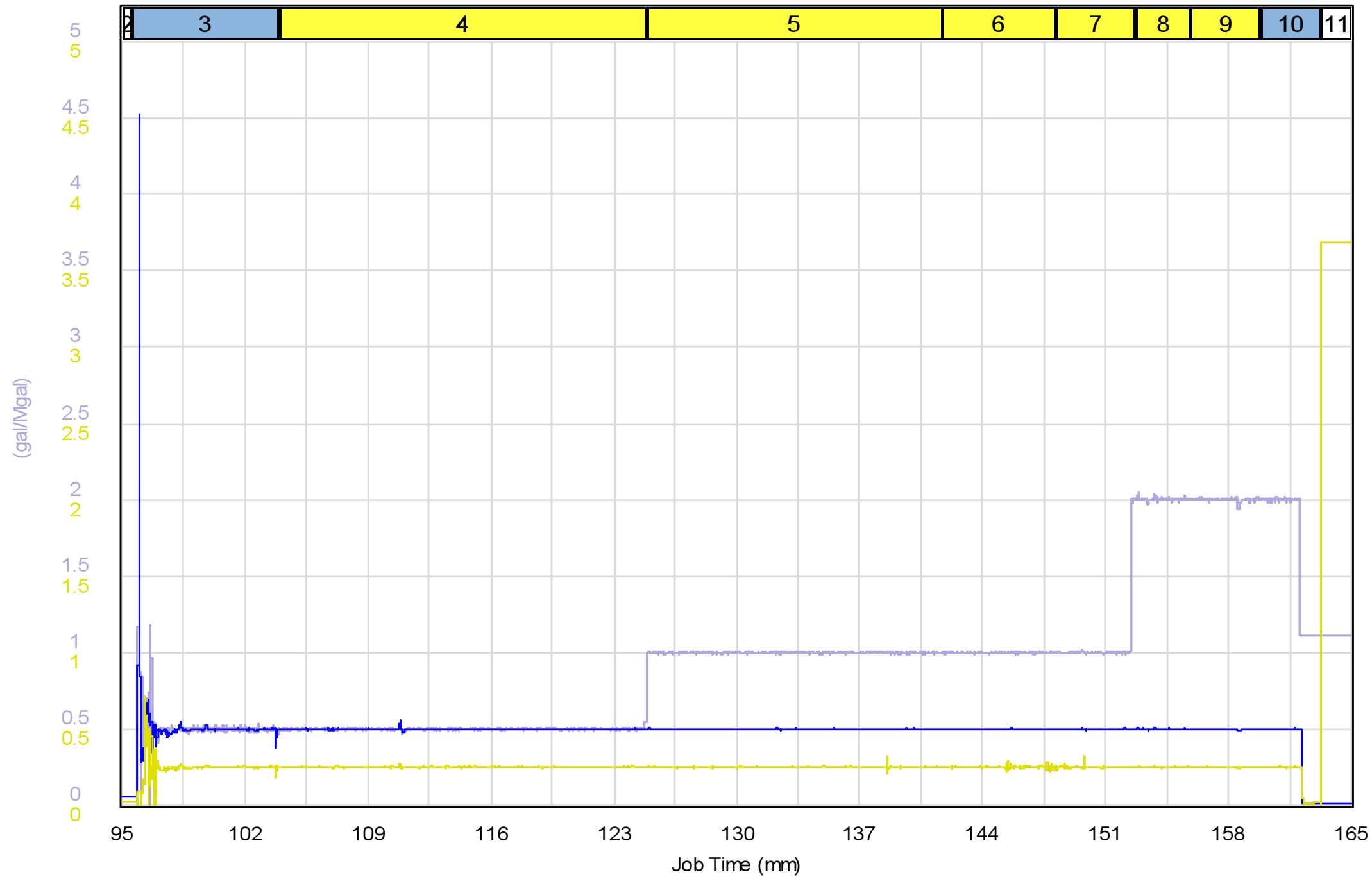
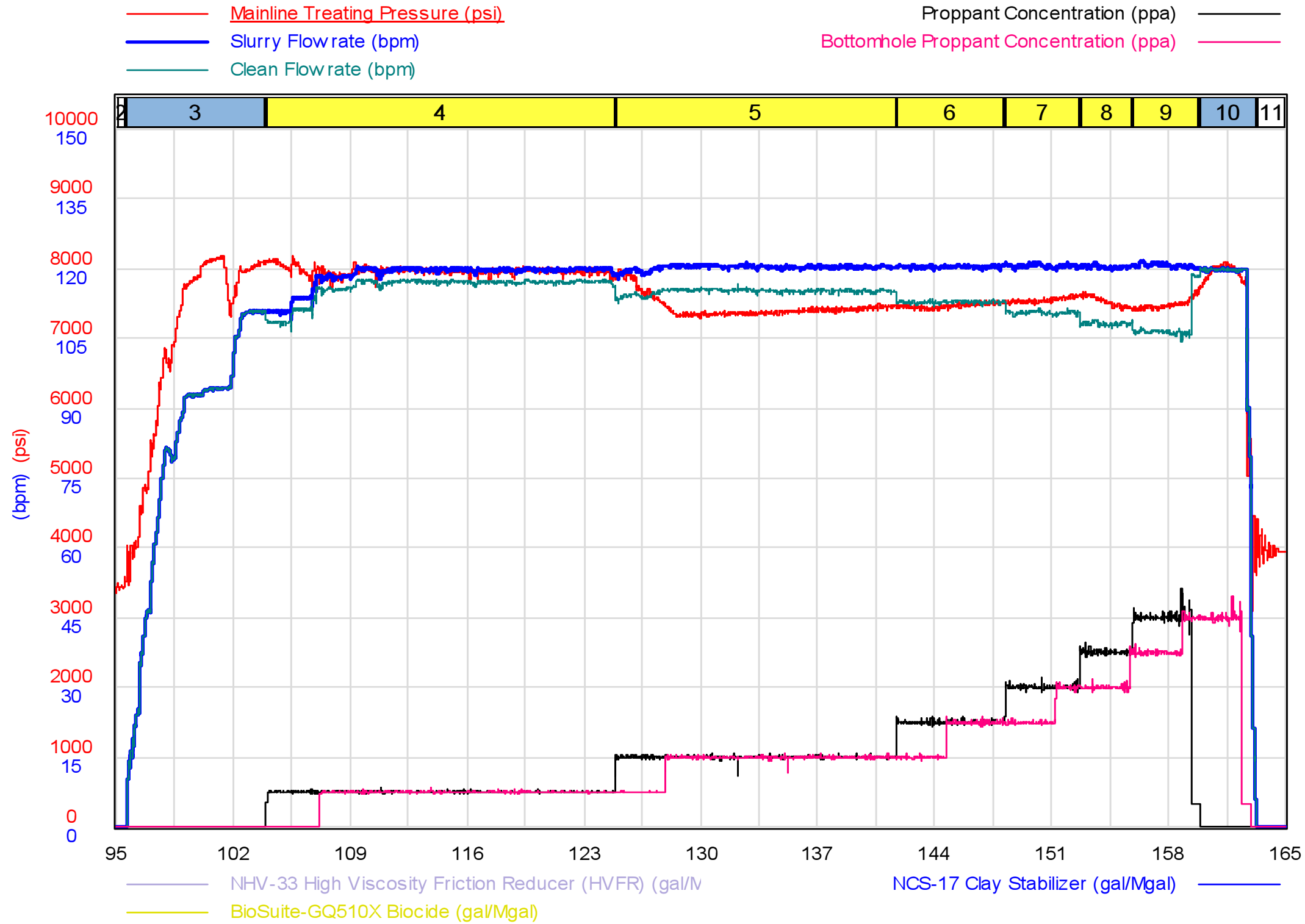
No NPT. Stage pumped by design. All proppant placed.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	52.1	384		0.00	0
2	Shut In	0.0	0		0.00	0
3	Pad	81.7	677		0.00	0
4	Slurry	118.6	2,395	40/70 Mesh	0.50	46,752
5	Slurry	120.3	1,921	40/70 Mesh	1.00	74,974
6	Slurry	120.5	730	40/70 Mesh	1.50	42,751
7	Slurry	120.7	491	40/70 Mesh	2.00	38,326
8	Slurry	120.5	337	40/70 Mesh	2.50	32,976
9	Slurry	120.8	430	40/70 Mesh	3.00	44,366
10	Flush	107.5	366		0.00	26
11		0.0	0		0.00	0
Totals			7,729			280,171

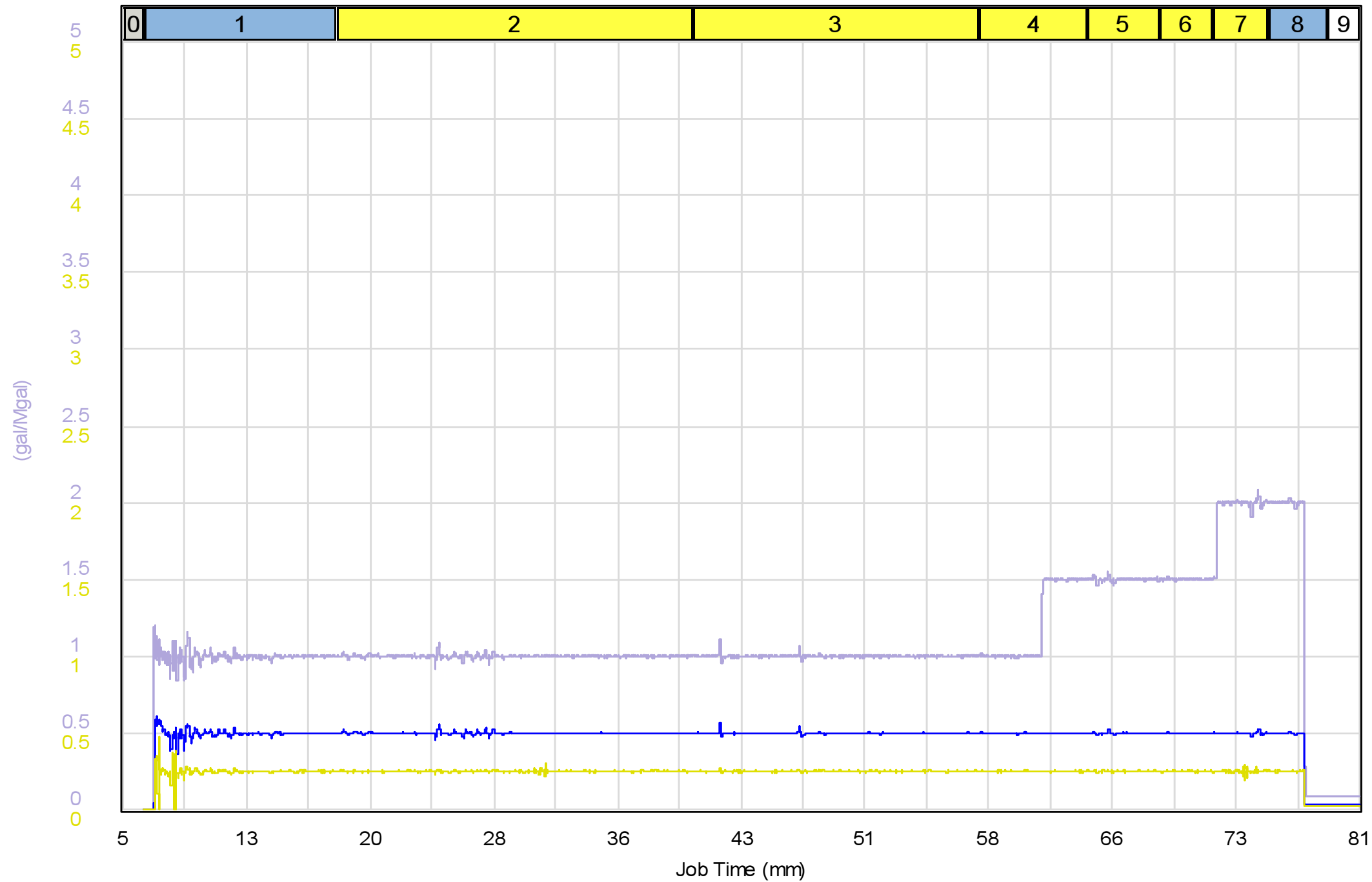
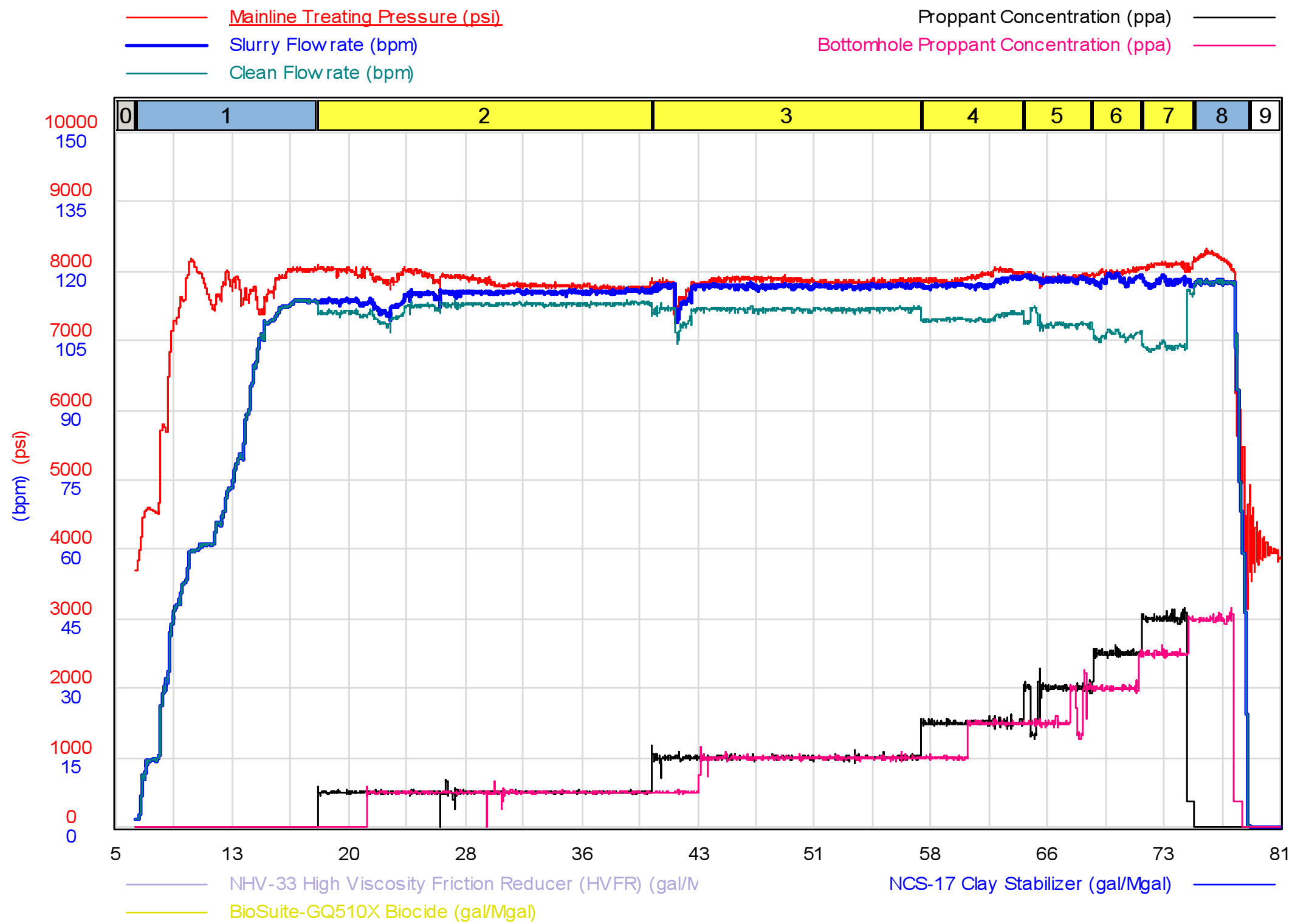
Top Perforation	15,292 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	15,429 (ft)	Clean Vol.	7,729 (bbls)
Clusters	8	40/70 Mesh	280,171 (lbs)
Total Perforations	32	Total Proppant	280,171 (lbs)
Avg. Rate	120.0 (bpm)		
Avg. Pressure	7,644 (psi)		
Max Rate	121.8 (bpm)		
Max Pressure	8,095 (psi)		
Shut down for lightning during pad.			



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	52.1	384		0.00	0
2	Shut In	0.0	0		0.00	0
3	Pad	81.7	677		0.00	0
4	Slurry	118.6	2,395	40/70 Mesh	0.50	46,752
5	Slurry	120.3	1,921	40/70 Mesh	1.00	74,974
6	Slurry	120.5	730	40/70 Mesh	1.50	42,751
7	Slurry	120.7	491	40/70 Mesh	2.00	38,326
8	Slurry	120.5	337	40/70 Mesh	2.50	32,976
9	Slurry	120.8	430	40/70 Mesh	3.00	44,366
10	Flush	107.5	366		0.00	26
11		0.0	0		0.00	0
Totals			7,729			280,171

Top Perforation	15,292 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	15,429 (ft)	Clean Vol.	7,729 (bbls)
Clusters	8	40/70 Mesh	280,171 (lbs)
Total Perforations	32	Total Proppant	280,171 (lbs)
Avg. Rate	120.0 (bpm)		
Avg. Pressure	7,644 (psi)		
Max Rate	121.8 (bpm)		
Max Pressure	8,095 (psi)		
Shut down for lightning during pad.			

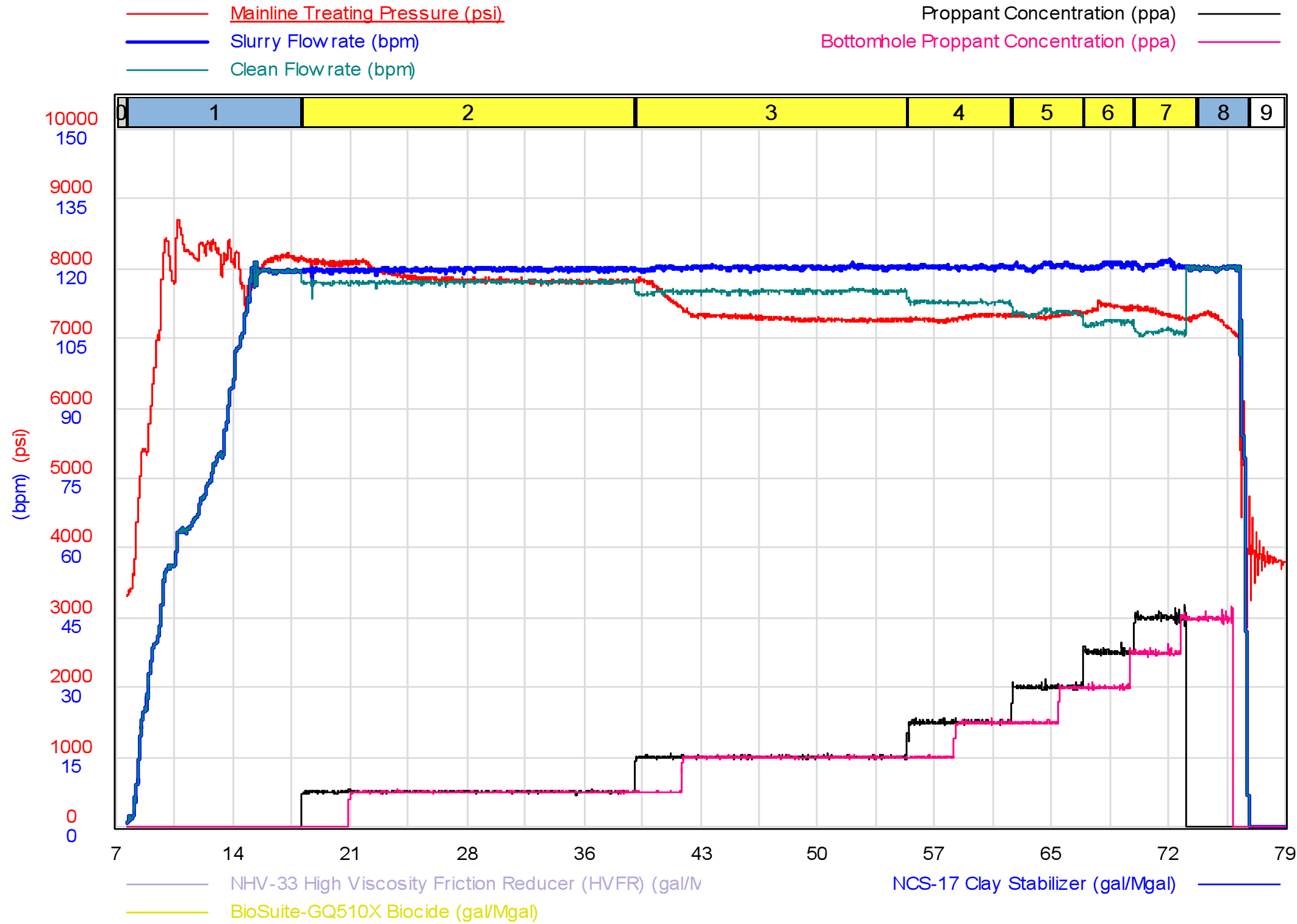


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	72.5	852		0.00	0
2	Slurry	114.8	2,434	40/70 Mesh	0.50	48,751
3	Slurry	116.6	1,943	40/70 Mesh	1.00	78,144
4	Slurry	117.4	731	40/70 Mesh	1.50	44,034
5	Slurry	118.3	488	40/70 Mesh	2.00	37,841
6	Slurry	118.3	342	40/70 Mesh	2.50	34,284
7	Slurry	117.8	357	40/70 Mesh	3.00	37,358
8	Flush	103.6	371		0.00	29
9		0.0	0		0.00	0
Totals			7,518			280,440

Top Perforation	15,117 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	15,254 (ft)	Clean Vol.	7,518 (bbls)
Clusters	8	40/70 Mesh	280,440 (lbs)
Total Perforations	32	Total Proppant	280,440 (lbs)
Avg. Rate	116.5 (bpm)		
Avg. Pressure	7,898 (psi)		
Max Rate	119.7 (bpm)		
Max Pressure	8,318 (psi)		

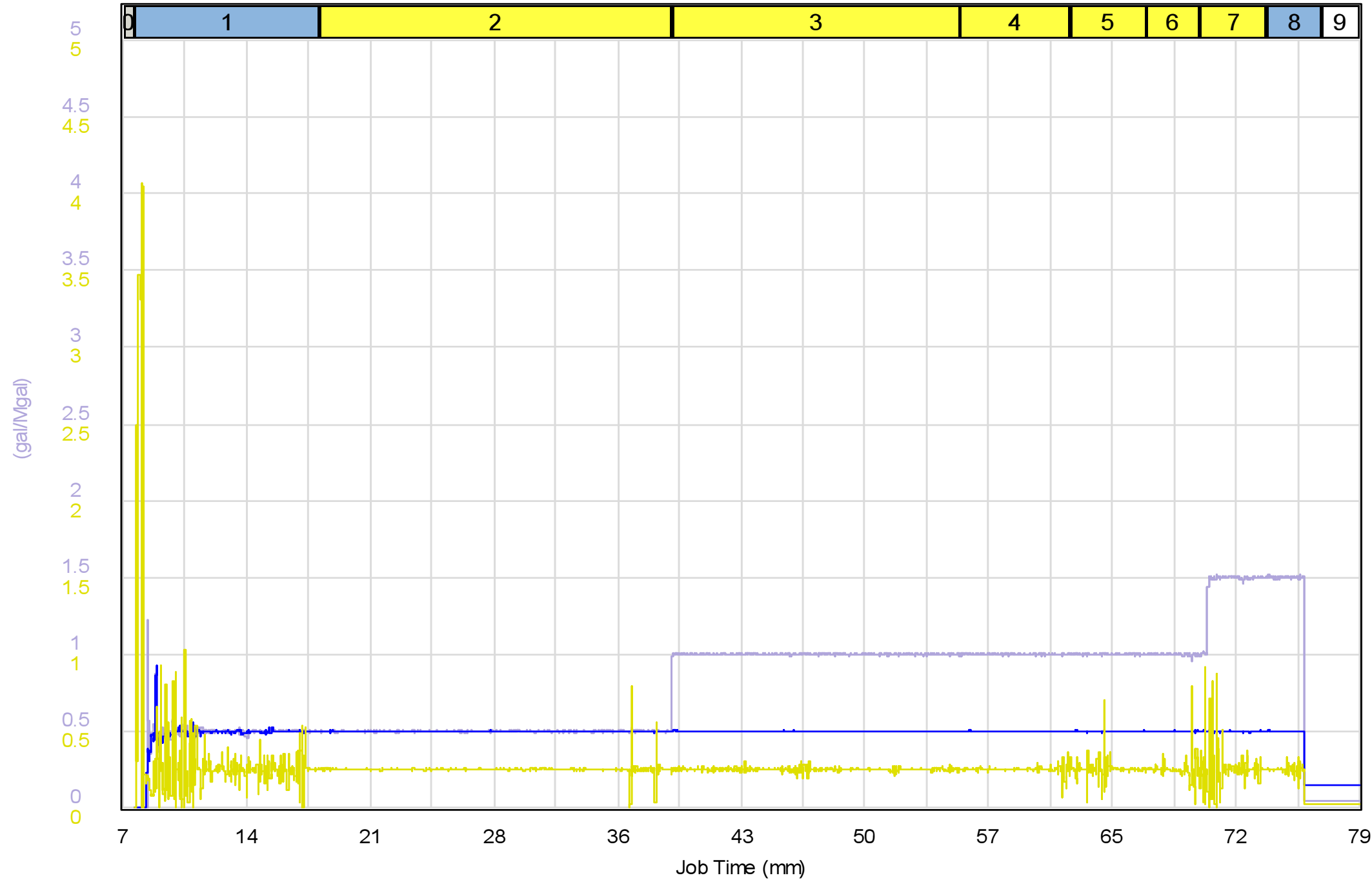
No NPT. Stage pumped by design. All proppant placed.

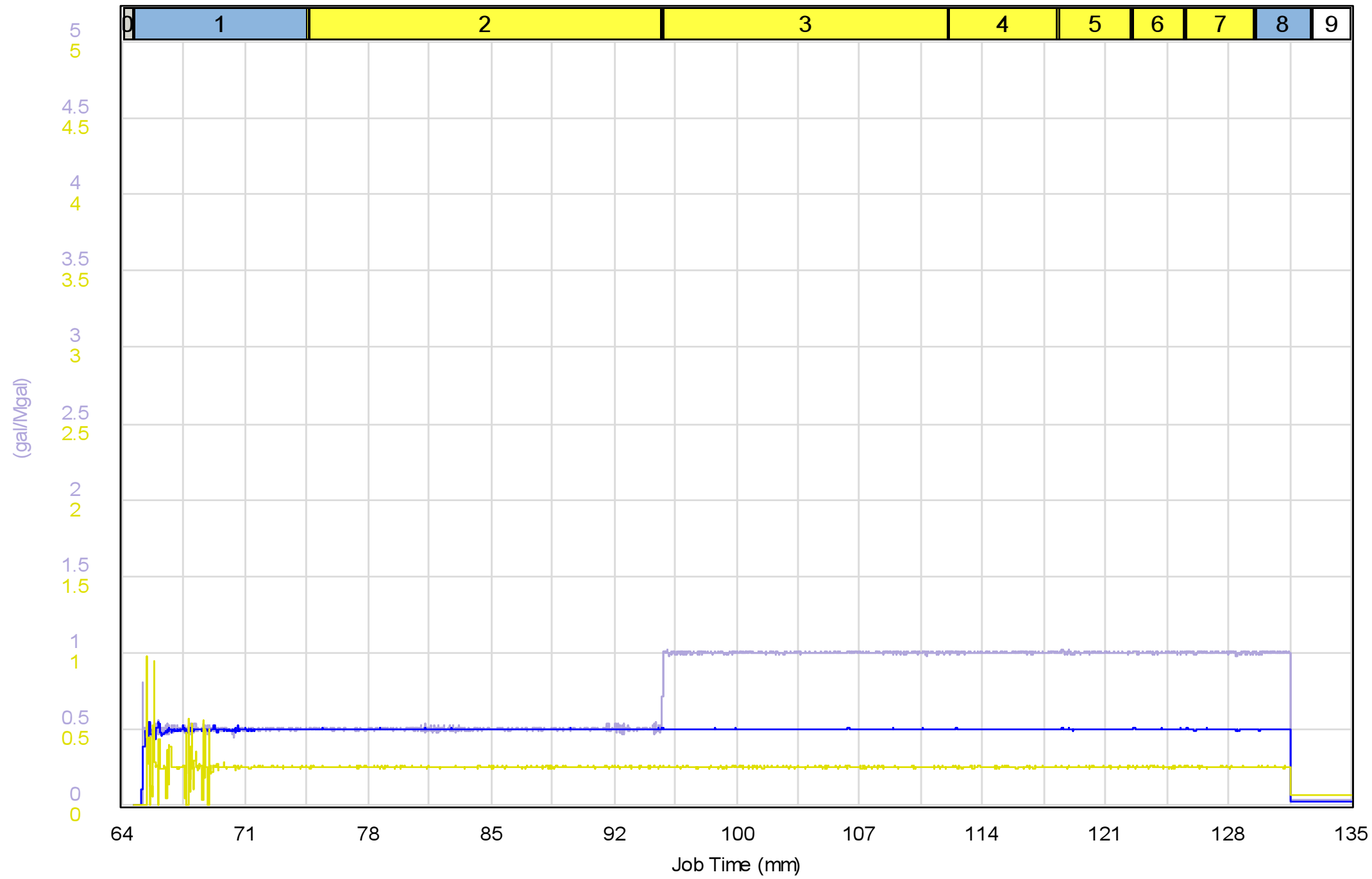
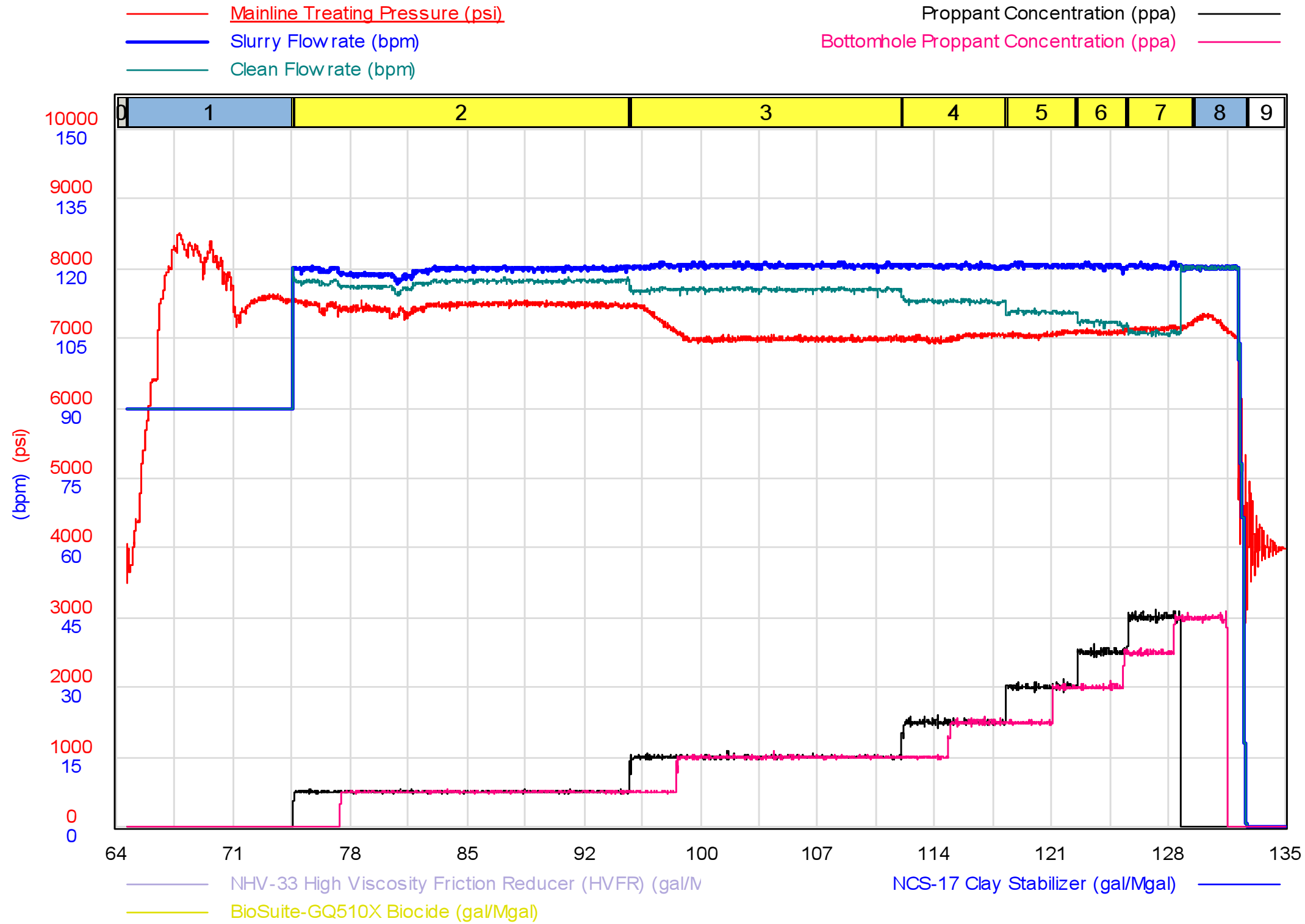


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	78.4	847		0.00	0
2	Slurry	119.8	2,416	40/70 Mesh	0.50	47,603
3	Slurry	120.3	1,942	40/70 Mesh	1.00	76,634
4	Slurry	120.4	731	40/70 Mesh	1.50	43,205
5	Slurry	120.6	487	40/70 Mesh	2.00	38,376
6	Slurry	120.8	342	40/70 Mesh	2.50	33,687
7	Slurry	120.8	421	40/70 Mesh	3.00	40,644
8	Flush	109.2	361		0.00	0
9		0.0	0		0.00	0
Totals			7,545			280,150

Top Perforation	14,942 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	15,079 (ft)	Clean Vol.	7,545 (bbls)
Clusters	8	40/70 Mesh	280,150 (lbs)
Total Perforations	32	Total Proppant	280,150 (lbs)
Avg. Rate	120.3 (bpm)		
Avg. Pressure	7,512 (psi)		
Max Rate	122.0 (bpm)		
Max Pressure	8,131 (psi)		
No NPT. Stage pumped by design. All proppant placed.			



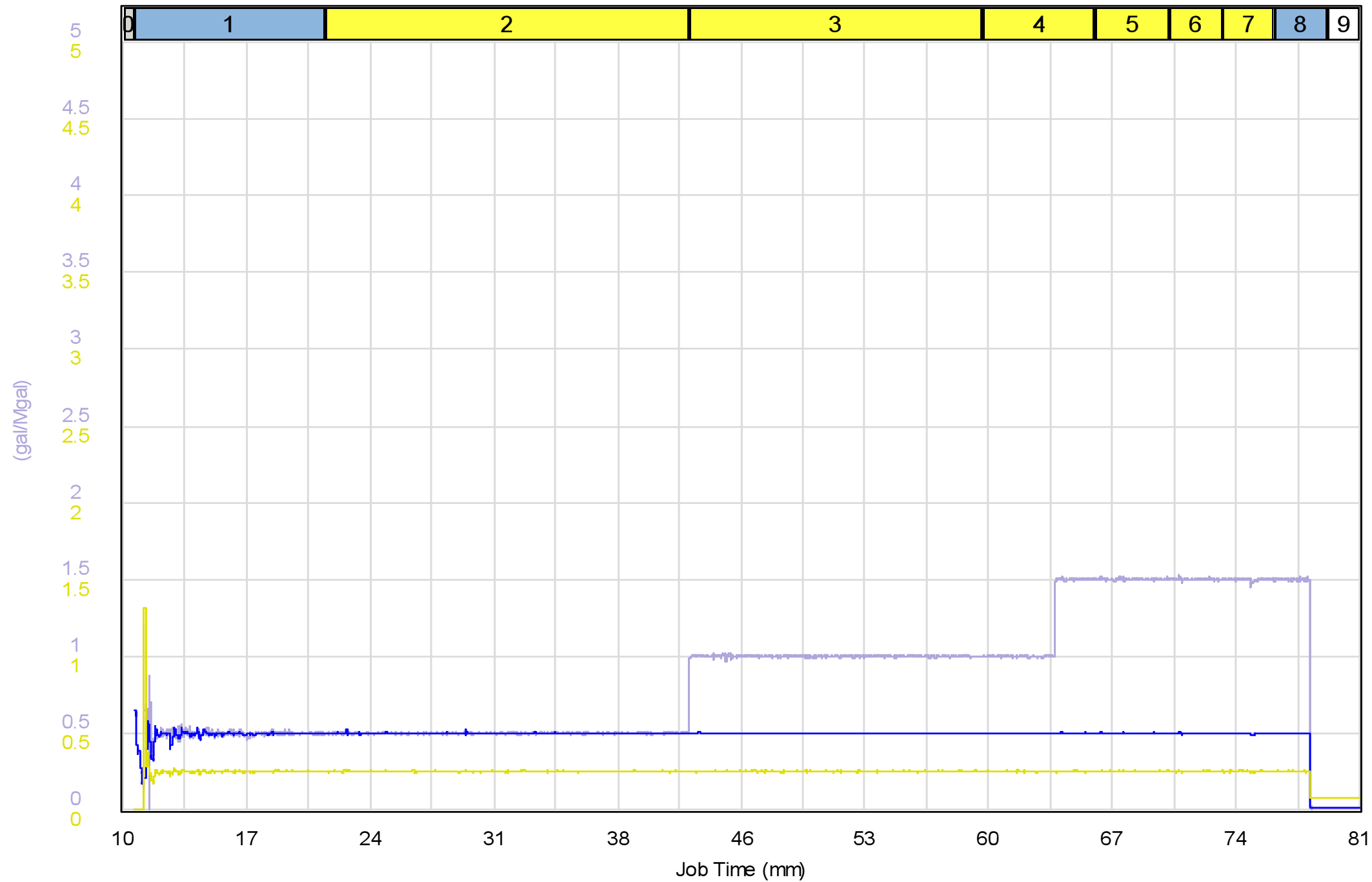
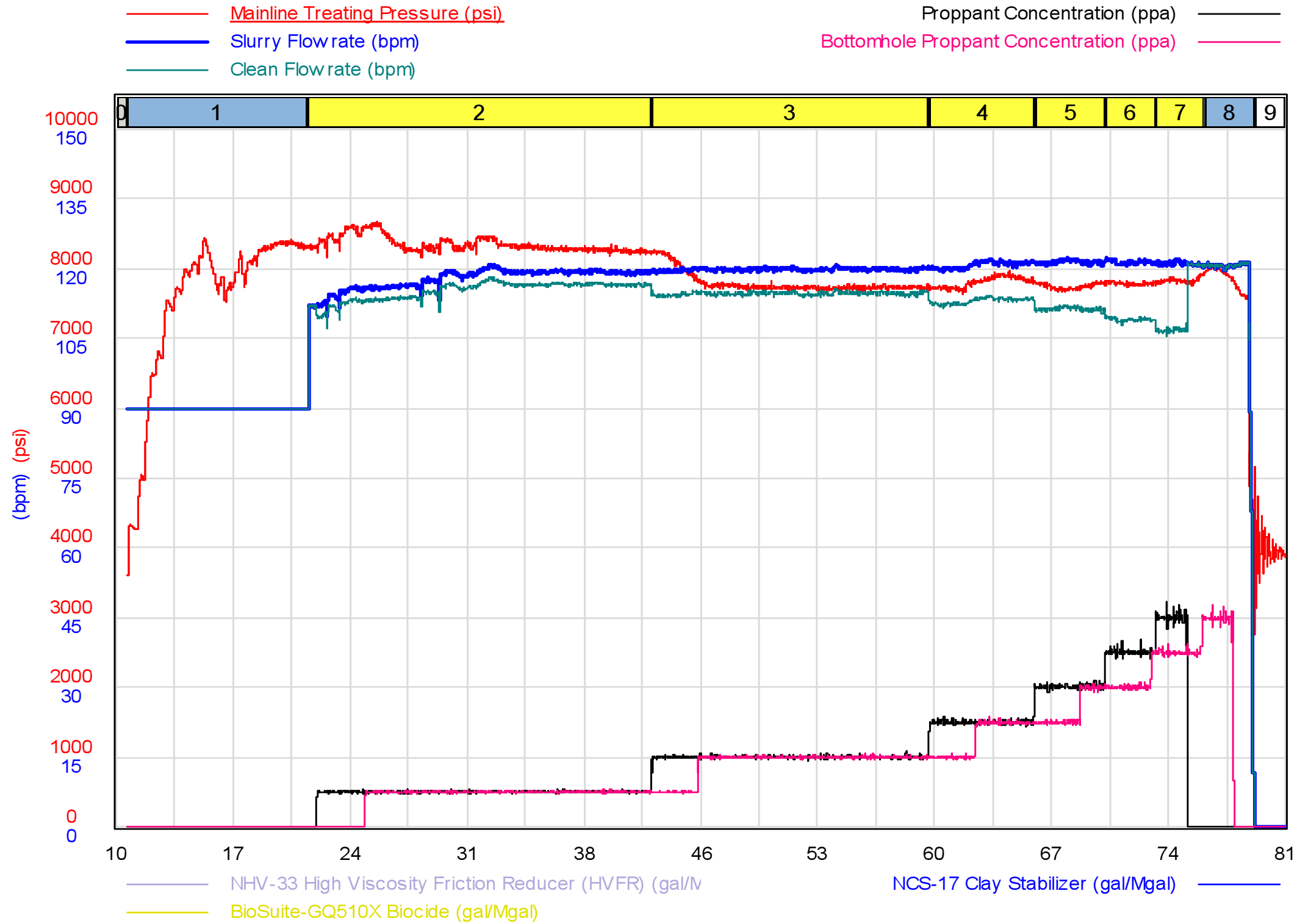


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	90.0	920		0.00	0
2	Slurry	119.7	2,425	40/70 Mesh	0.50	48,122
3	Slurry	120.7	1,933	40/70 Mesh	1.00	76,811
4	Slurry	120.7	719	40/70 Mesh	1.50	42,853
5	Slurry	120.8	485	40/70 Mesh	2.00	38,570
6	Slurry	120.6	336	40/70 Mesh	2.50	33,380
7	Slurry	120.6	438	40/70 Mesh	3.00	40,964
8	Flush	108.2	364		0.00	0
9		0.0	0		0.00	0
Totals			7,619			280,699

Top Perforation	14,767 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	14,904 (ft)	Clean Vol.	7,619 (bbls)
Clusters	8	40/70 Mesh	280,699 (lbs)
Total Perforations	32	Total Proppant	280,699 (lbs)
Avg. Rate	120.3 (bpm)		
Avg. Pressure	7,200 (psi)		
Max Rate	121.4 (bpm)		
Max Pressure	7,554 (psi)		

Pumped as directed by customer representative.

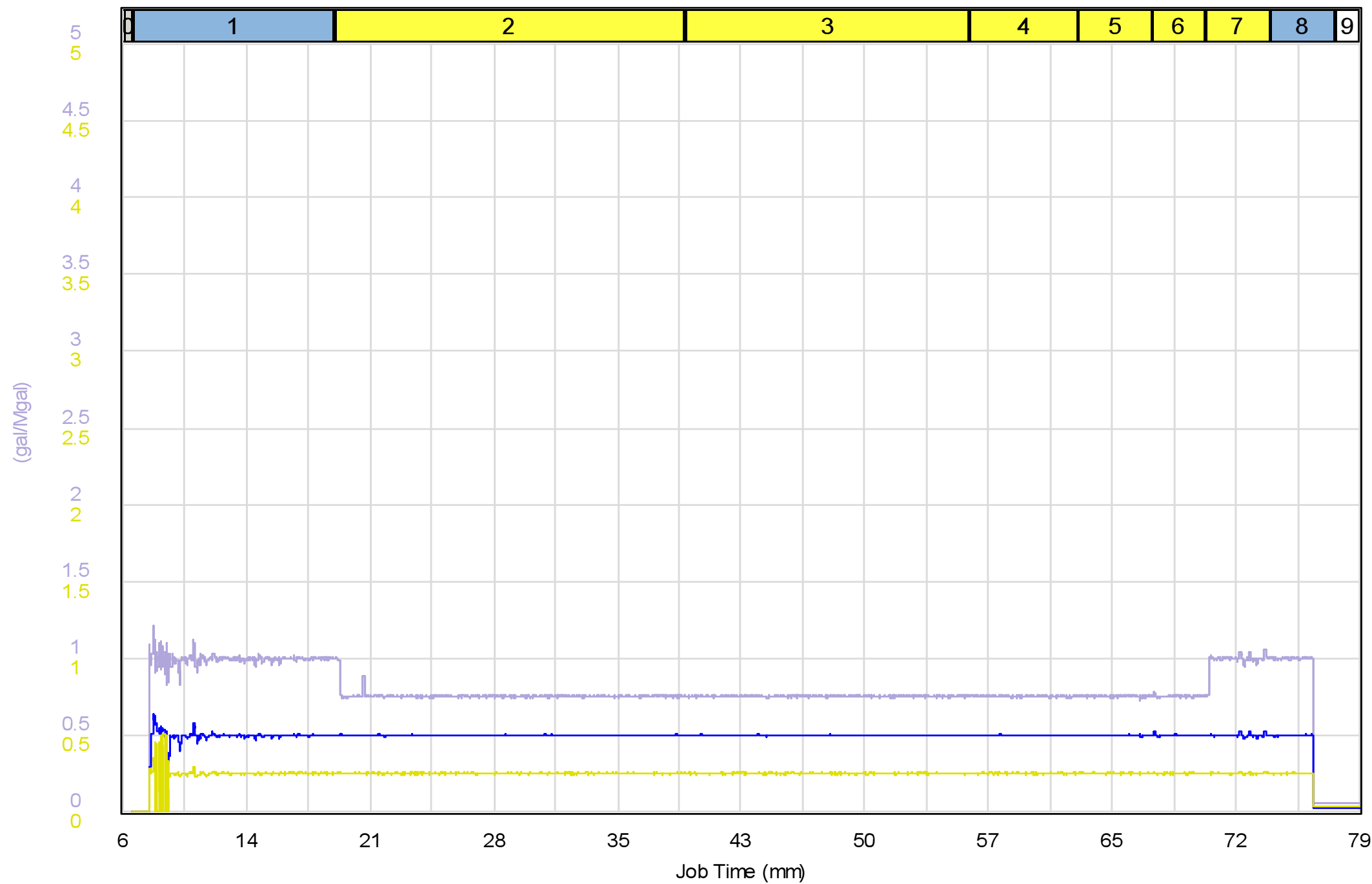
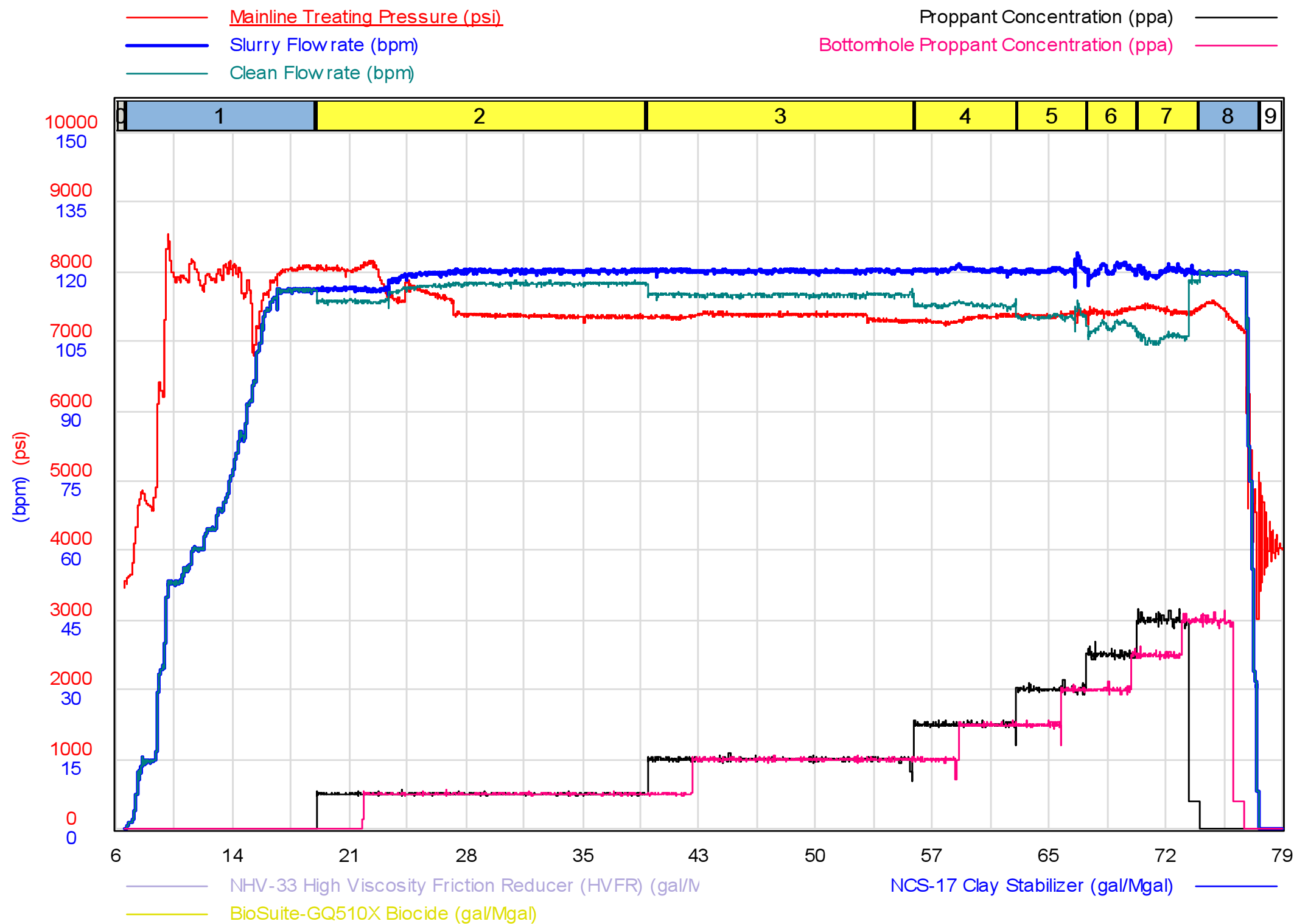


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	90.0	993		0.00	0
2	Slurry	117.8	2,422	40/70 Mesh	0.50	49,885
3	Slurry	119.9	1,950	40/70 Mesh	1.00	82,212
4	Slurry	120.8	730	40/70 Mesh	1.50	46,126
5	Slurry	121.5	485	40/70 Mesh	2.00	40,849
6	Slurry	121.4	336	40/70 Mesh	2.50	35,436
7	Slurry	121.2	333	40/70 Mesh	3.00	26,453
8	Flush	113.6	350		0.00	0
9		0.0	0		0.00	0
Totals			7,599			280,961

Top Perforation	14,593 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	14,730 (ft)	Clean Vol.	7,599 (bbls)
Clusters	8	40/70 Mesh	280,961 (lbs)
Total Perforations	32	Total Proppant	280,961 (lbs)
Avg. Rate	119.8 (bpm)		
Avg. Pressure	7,985 (psi)		
Max Rate	122.3 (bpm)		
Max Pressure	8,685 (psi)		

Pumped as directed by customer representative.

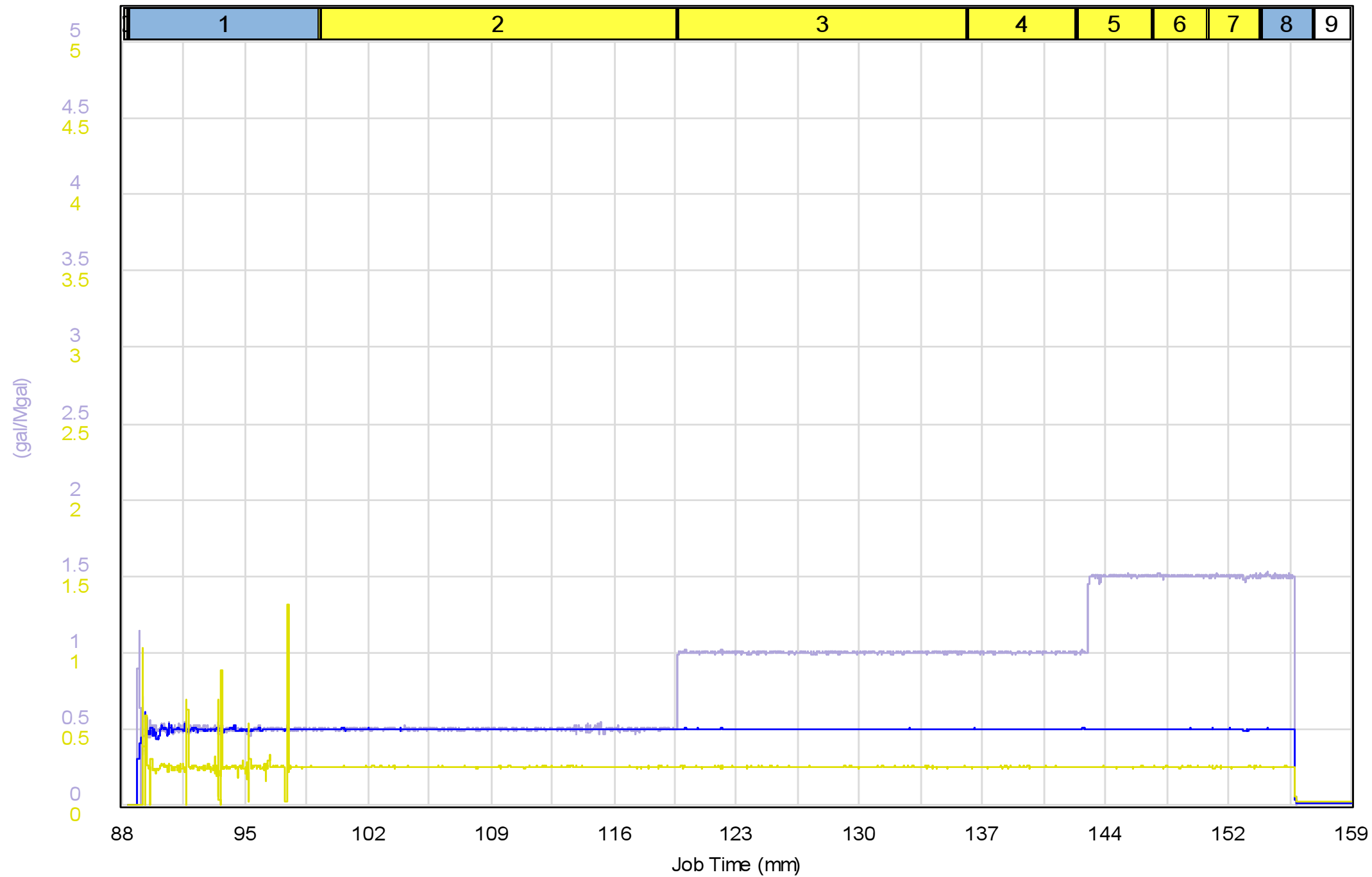
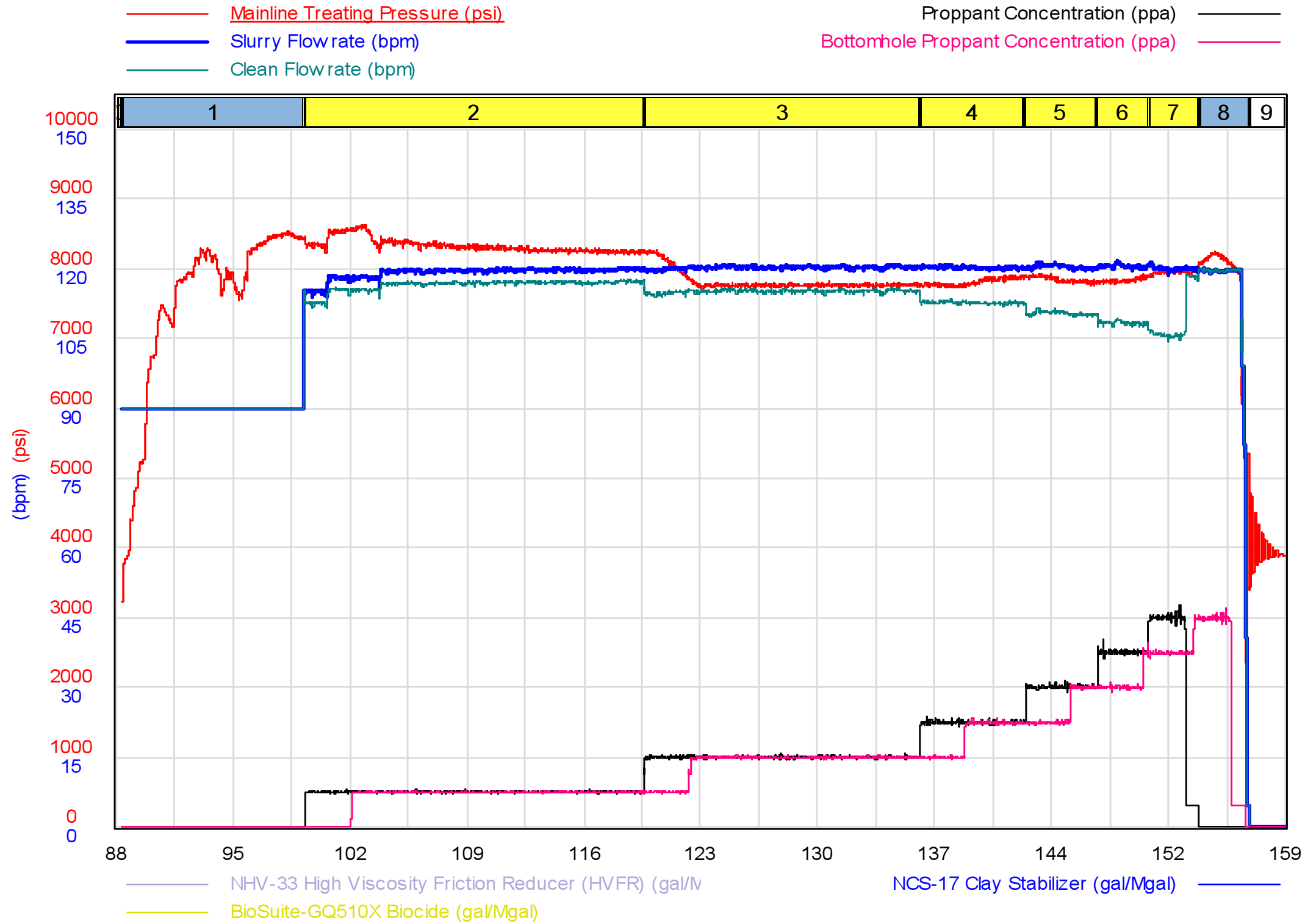


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	70.8	844		0.00	0
2	Slurry	119.2	2,404	40/70 Mesh	0.50	47,704
3	Slurry	120.2	1,915	40/70 Mesh	1.00	75,997
4	Slurry	120.5	720	40/70 Mesh	1.50	42,849
5	Slurry	120.5	482	40/70 Mesh	2.00	38,192
6	Slurry	120.5	339	40/70 Mesh	2.50	33,664
7	Slurry	120.1	418	40/70 Mesh	3.00	41,923
8	Flush	105.5	400		0.00	31
9		0.0	0		0.00	0
Totals			7,524			280,360

Top Perforation	14,418 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	14,555 (ft)	Clean Vol.	7,524 (bbls)
Clusters	8	40/70 Mesh	280,360 (lbs)
Total Perforations	32	Total Proppant	280,360 (lbs)
Avg. Rate	120.1 (bpm)		
Avg. Pressure	7,418 (psi)		
Max Rate	124.0 (bpm)		
Max Pressure	8,165 (psi)		

No NPT. Stage pumped by design. All proppant placed.

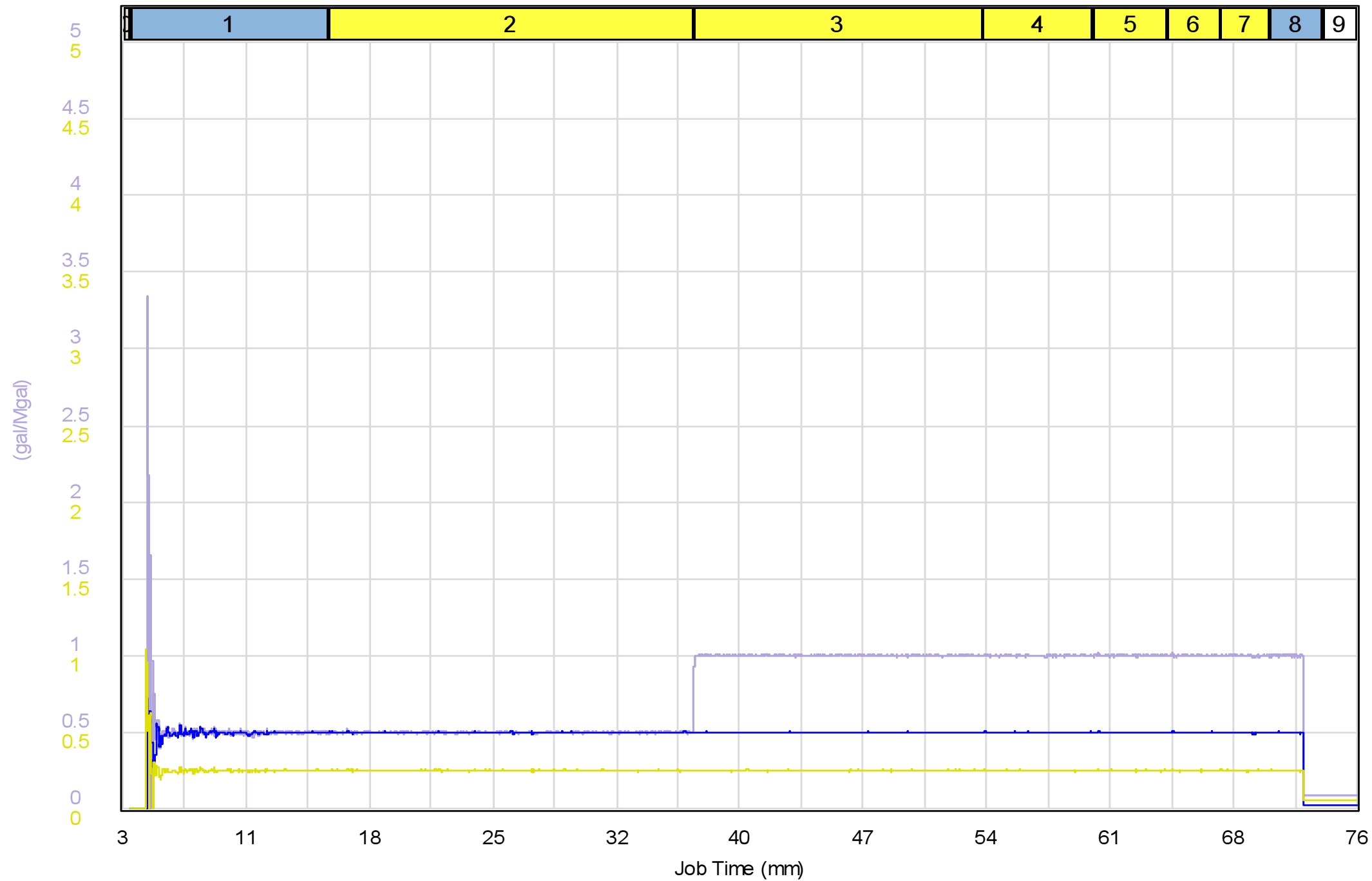
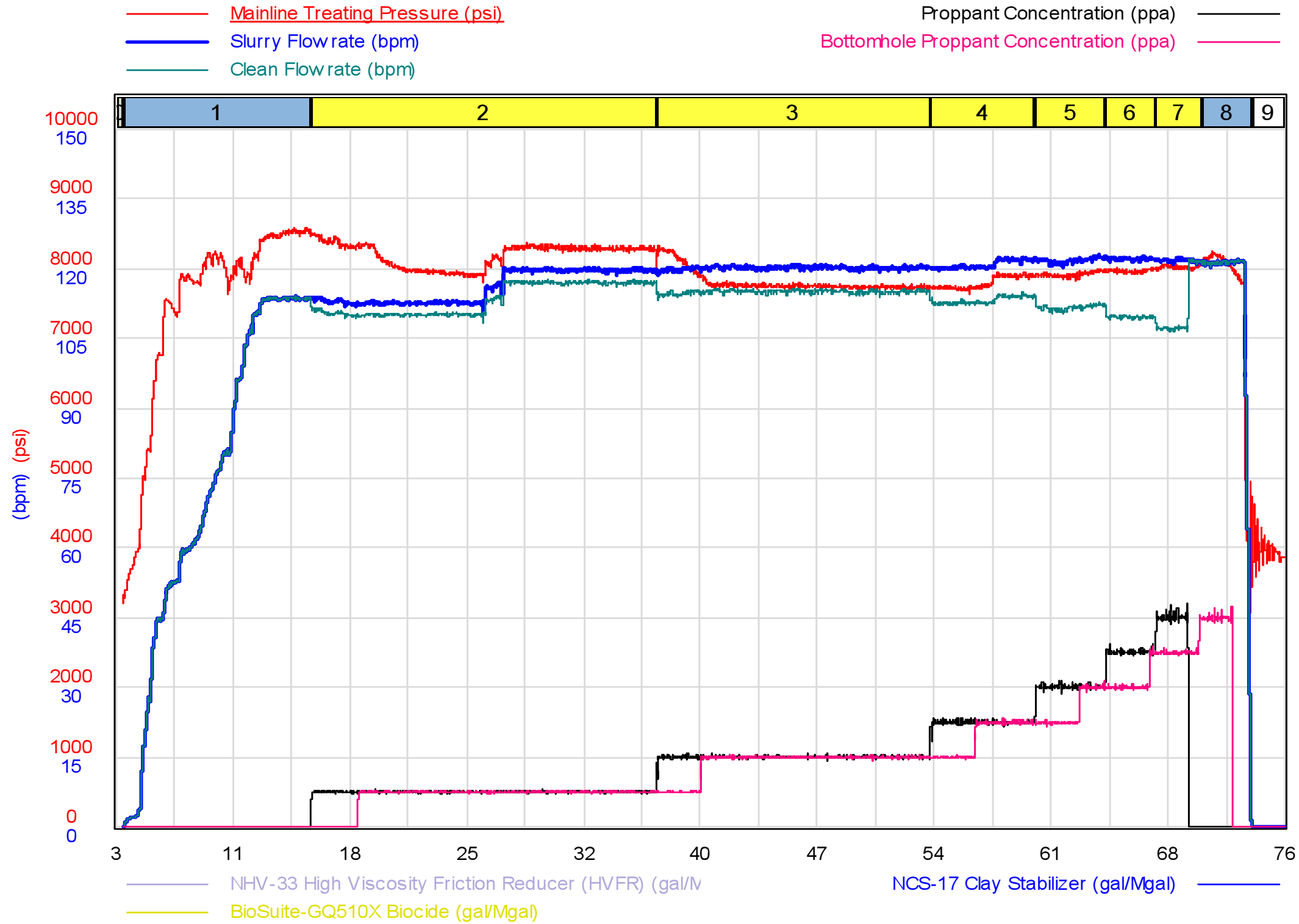


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	90.0	993		0.00	0
2	Slurry	119.2	2,416	40/70 Mesh	0.50	49,627
3	Slurry	120.4	1,934	40/70 Mesh	1.00	79,835
4	Slurry	120.3	725	40/70 Mesh	1.50	44,818
5	Slurry	120.5	486	40/70 Mesh	2.00	40,117
6	Slurry	120.6	338	40/70 Mesh	2.50	34,844
7	Slurry	120.1	334	40/70 Mesh	3.00	31,054
8	Flush	112.0	342		0.00	24
9		0.0	0		0.00	0
Totals			7,568			280,320

Top Perforation	14,243 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	14,380 (ft)	Clean Vol.	7,568 (bbls)
Clusters	8	40/70 Mesh	280,320 (lbs)
Total Perforations	32	Total Proppant	280,320 (lbs)
Avg. Rate	120.2 (bpm)		
Avg. Pressure	7,977 (psi)		
Max Rate	121.6 (bpm)		
Max Pressure	8,412 (psi)		

Pumped as directed by customer representative.

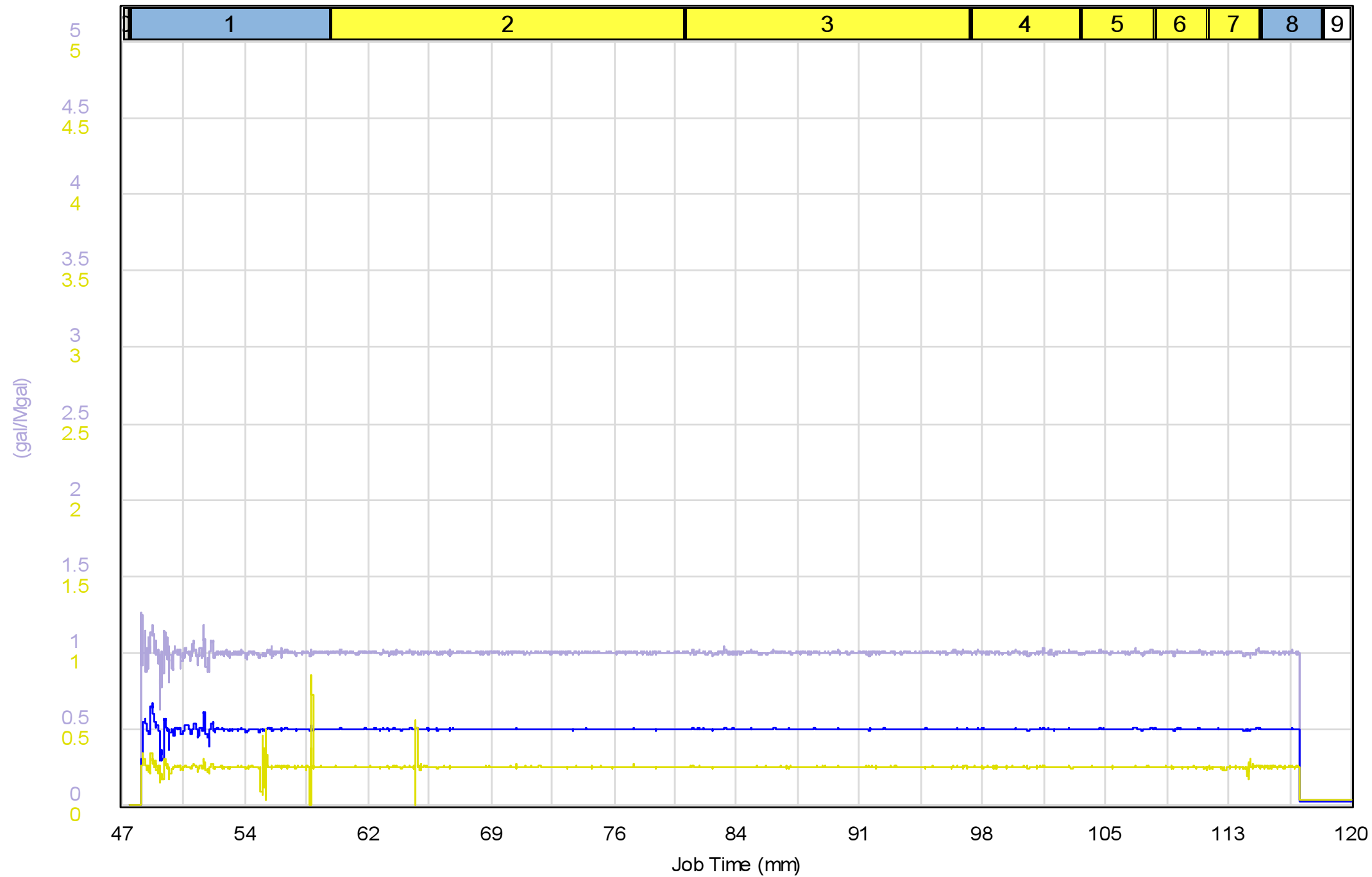
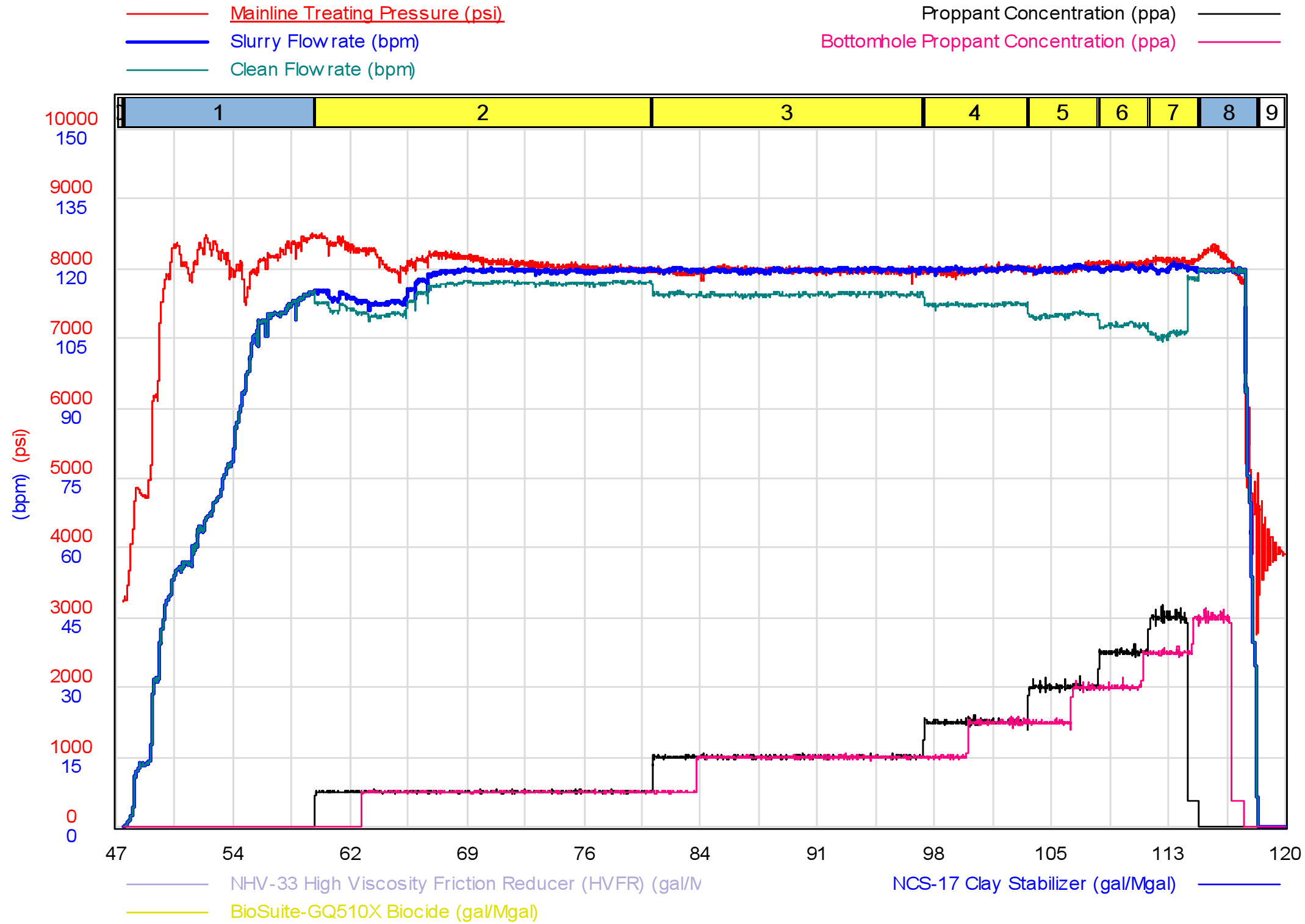


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	73.7	853		0.00	0
2	Slurry	116.0	2,424	40/70 Mesh	0.50	50,453
3	Slurry	120.2	1,946	40/70 Mesh	1.00	81,062
4	Slurry	120.9	732	40/70 Mesh	1.50	45,696
5	Slurry	121.8	486	40/70 Mesh	2.00	40,490
6	Slurry	122.1	338	40/70 Mesh	2.50	35,219
7	Slurry	121.8	323	40/70 Mesh	3.00	27,280
8	Flush	111.4	340		0.00	0
9		0.0	0		0.00	0
Totals			7,443			280,200

Top Perforation	14,069 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	14,206 (ft)	Clean Vol.	7,443 (bbls)
Clusters	8	40/70 Mesh	280,200 (lbs)
Total Perforations	32	Total Proppant	280,200 (lbs)
Avg. Rate	119.4 (bpm)		
Avg. Pressure	7,975 (psi)		
Max Rate	123.0 (bpm)		
Max Pressure	8,366 (psi)		

Pumped as directed by customer representative.

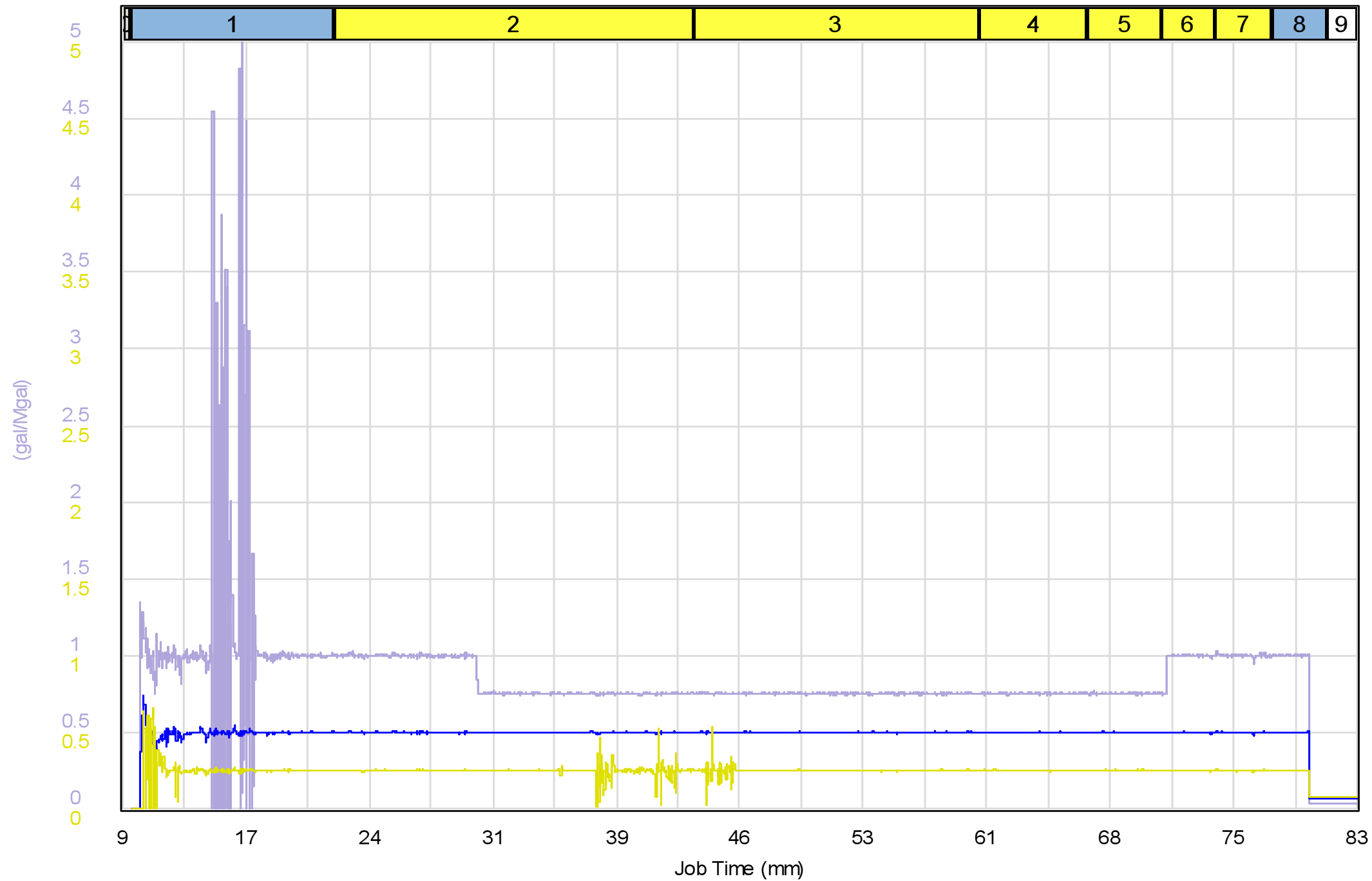
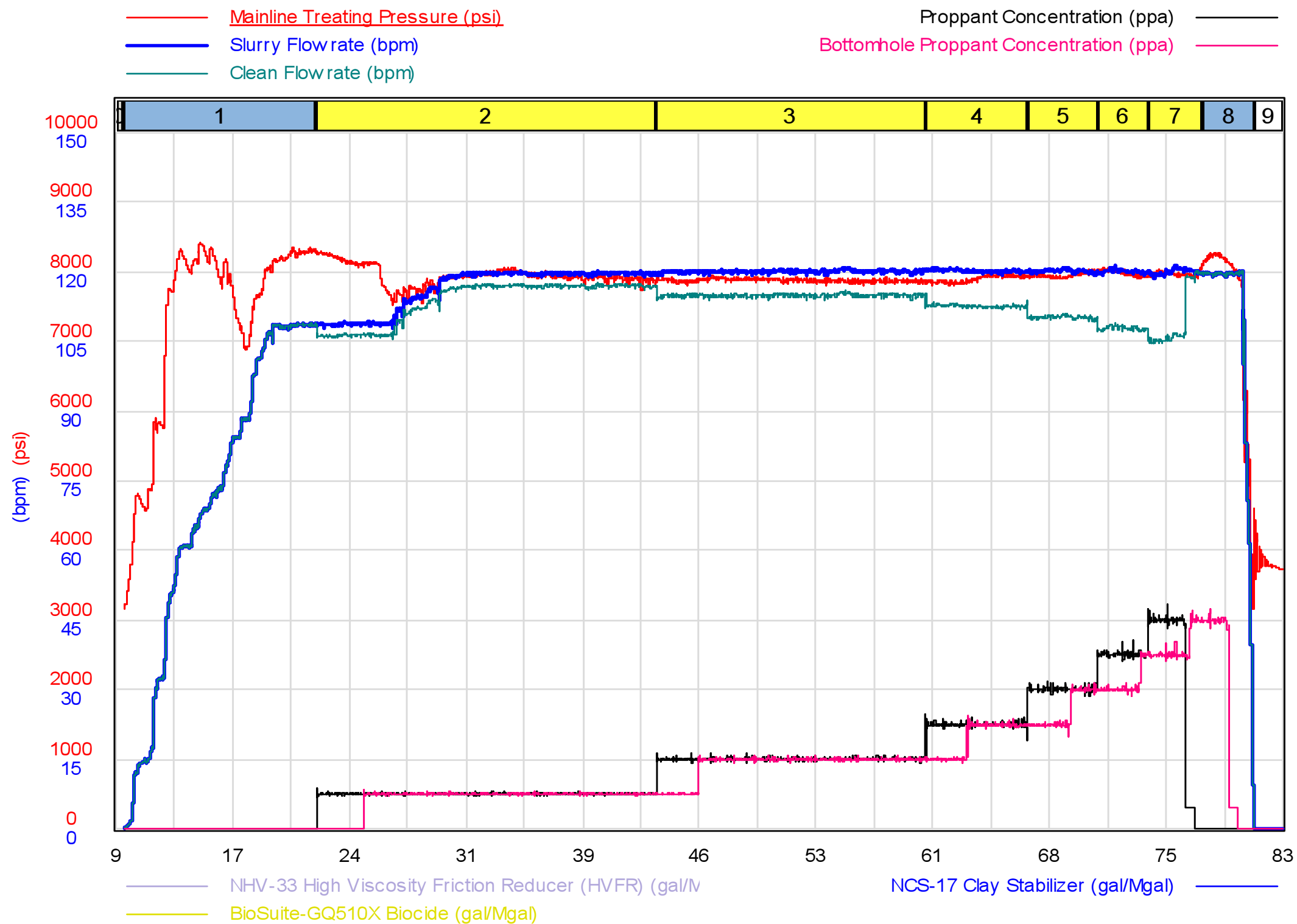


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	71.7	852		0.00	0
2	Slurry	117.7	2,435	40/70 Mesh	0.50	49,517
3	Slurry	119.8	1,948	40/70 Mesh	1.00	79,321
4	Slurry	119.9	728	40/70 Mesh	1.50	44,502
5	Slurry	120.0	490	40/70 Mesh	2.00	39,790
6	Slurry	120.1	342	40/70 Mesh	2.50	34,739
7	Slurry	120.2	342	40/70 Mesh	3.00	32,480
8	Flush	105.0	389		0.00	31
9		0.0	0		0.00	0
Totals			7,526			280,380

Top Perforation	13,894 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	14,031 (ft)	Clean Vol.	7,526 (bbls)
Clusters	8	40/70 Mesh	280,380 (lbs)
Total Perforations	32	Total Proppant	280,380 (lbs)
Avg. Rate	119.7 (bpm)		
Avg. Pressure	8,028 (psi)		
Max Rate	121.3 (bpm)		
Max Pressure	8,340 (psi)		

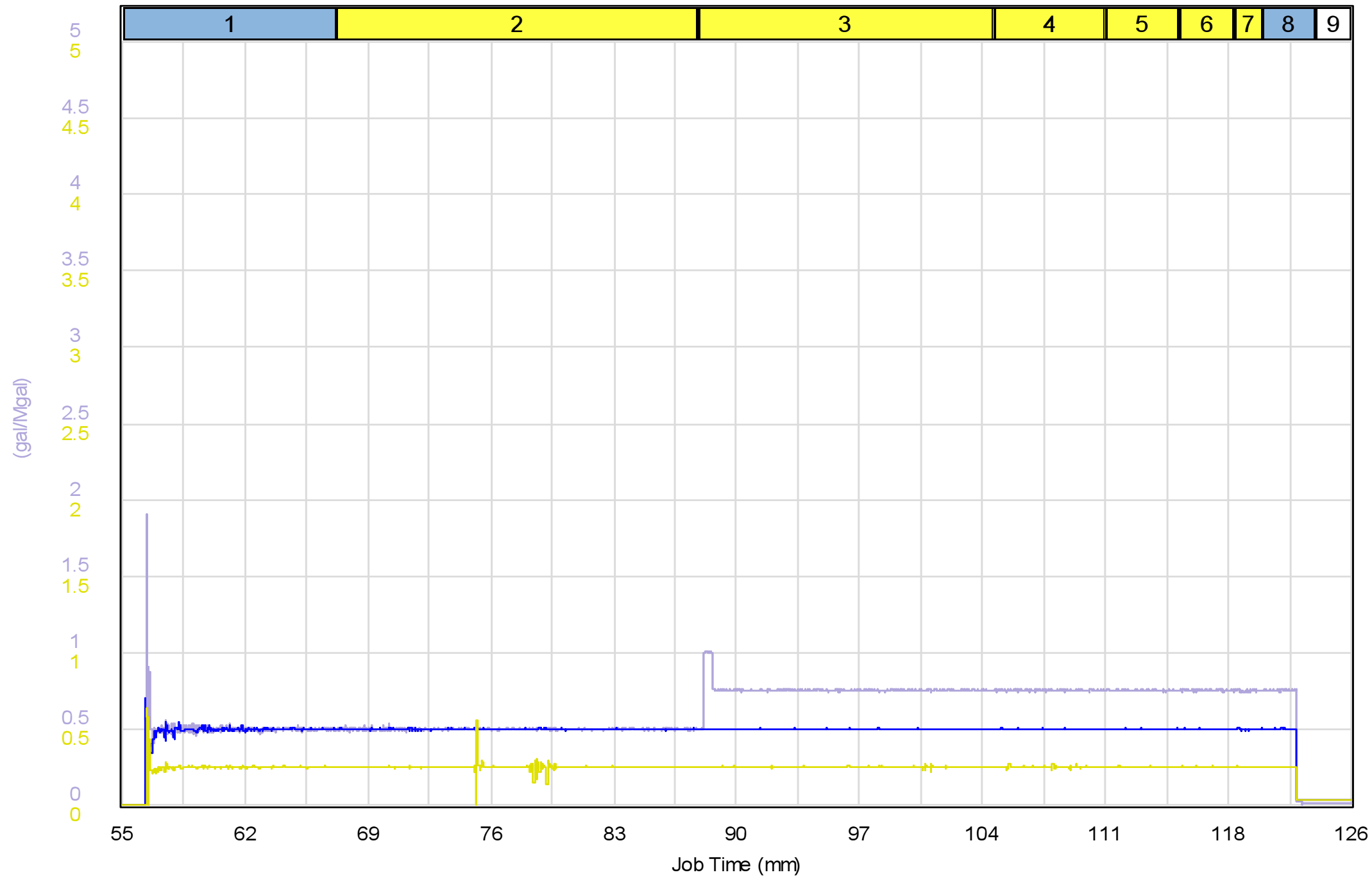
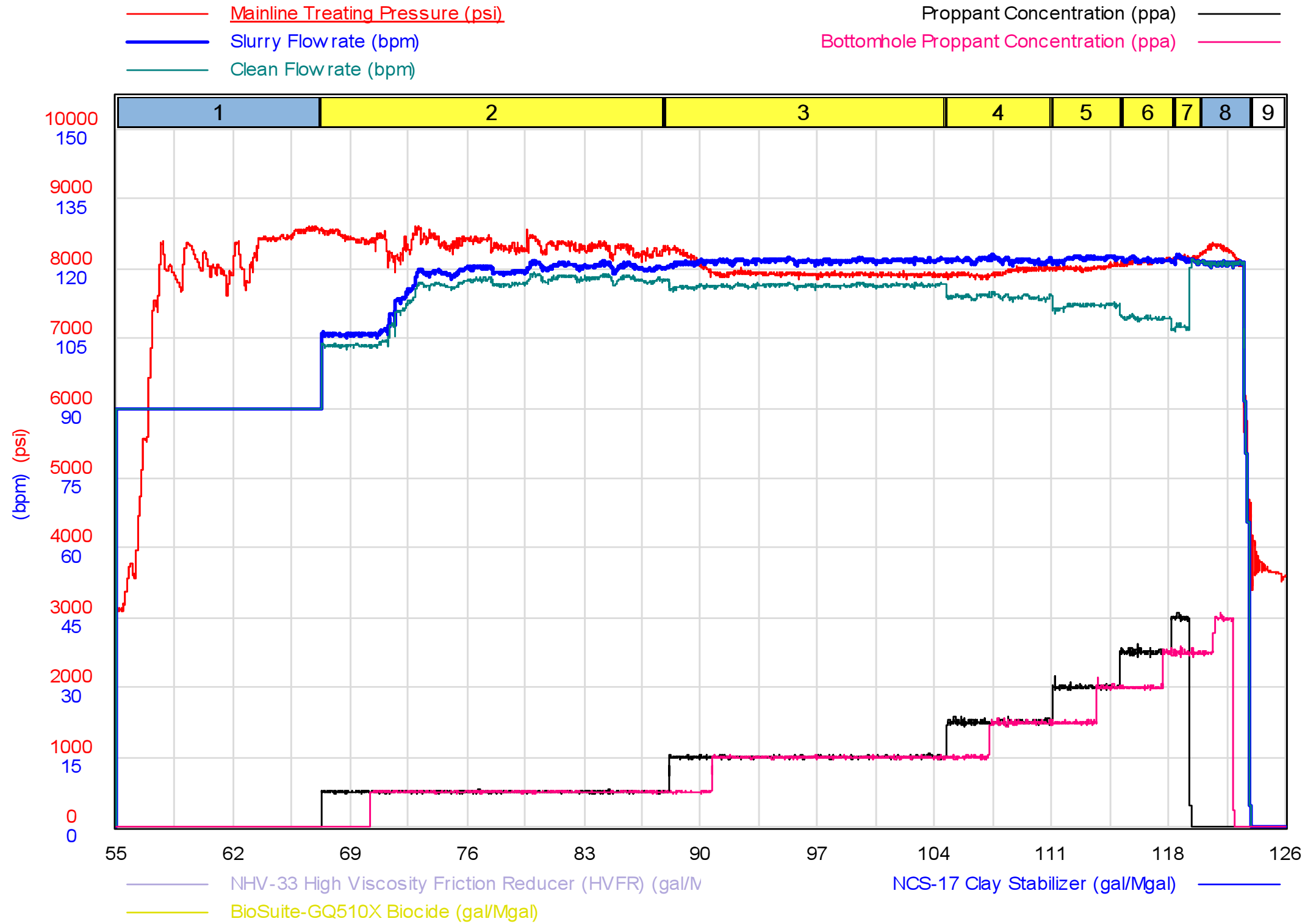
No NPT. Stage pumped by design. All proppant placed.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	70.7	854		0.00	0
2	Slurry	116.4	2,440	40/70 Mesh	0.50	49,731
3	Slurry	120.2	1,941	40/70 Mesh	1.00	79,267
4	Slurry	120.3	728	40/70 Mesh	1.50	44,494
5	Slurry	120.3	489	40/70 Mesh	2.00	39,820
6	Slurry	120.2	340	40/70 Mesh	2.50	34,664
7	Slurry	120.1	372	40/70 Mesh	3.00	32,325
8	Flush	106.6	357		0.00	0
9		0.0	0		0.00	0
Totals			7,521			280,300

Top Perforation	13,719 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	13,856 (ft)	Clean Vol.	7,521 (bbls)
Clusters	8	40/70 Mesh	280,300 (lbs)
Total Perforations	32	Total Proppant	280,300 (lbs)
Avg. Rate	119.8 (bpm)		
Avg. Pressure	7,924 (psi)		
Max Rate	121.5 (bpm)		
Max Pressure	8,284 (psi)		
.75 HRs of NPT due to waiting on proppant. Pumped by design. All proppant placed.			

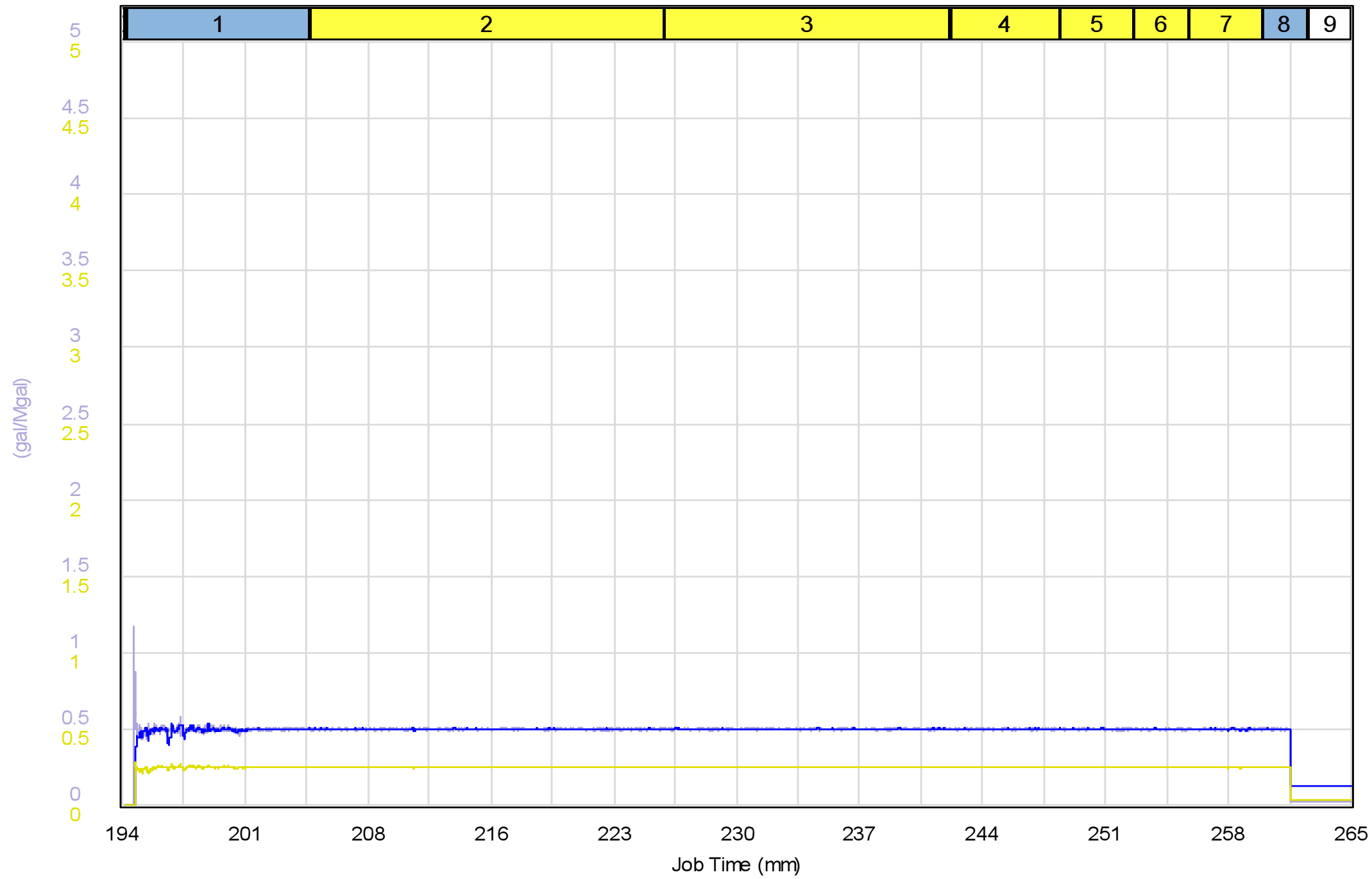
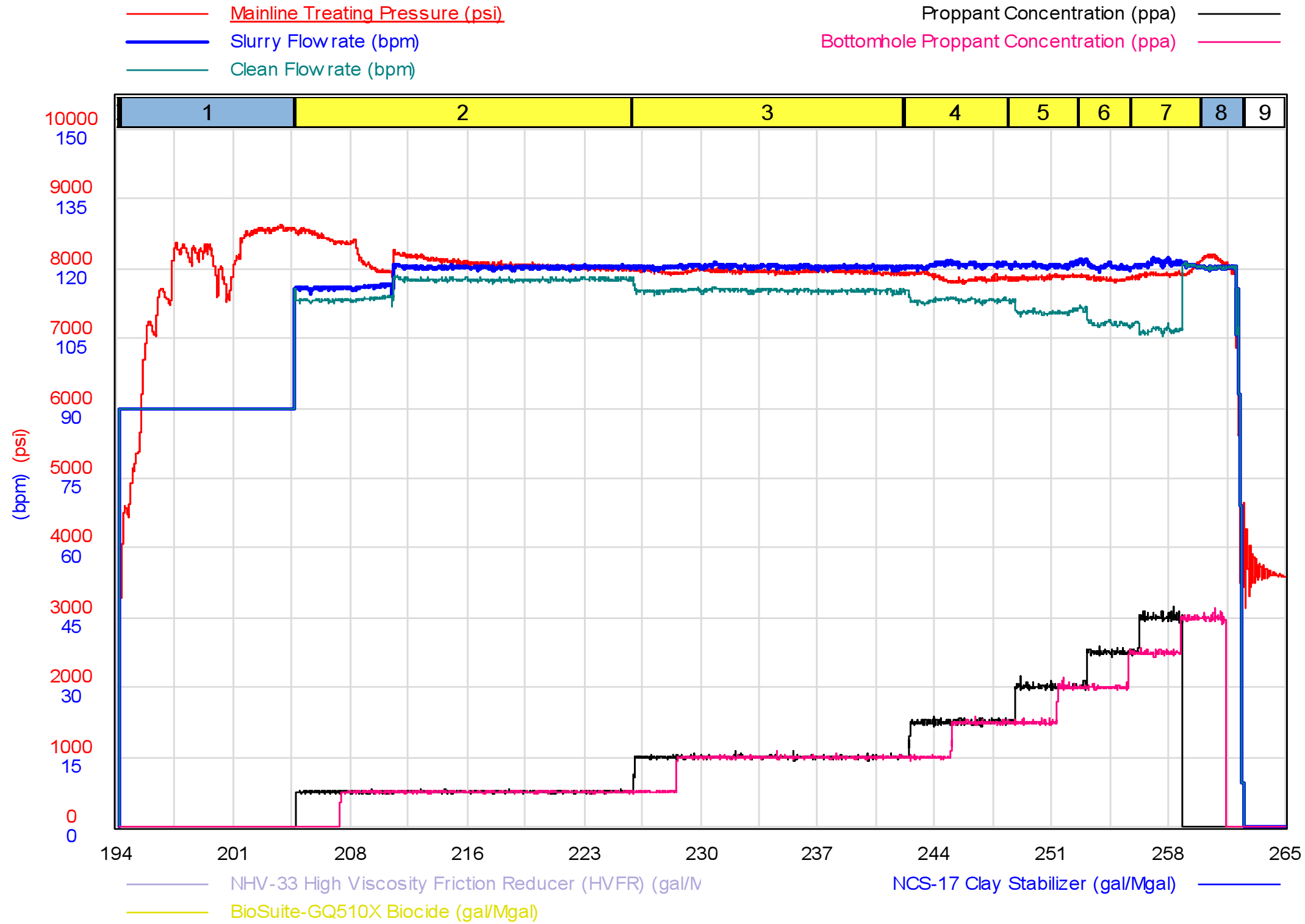


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	90.0	1,109		0.00	0
2	Slurry	116.8	2,377	40/70 Mesh	0.50	52,474
3	Slurry	121.6	1,971	40/70 Mesh	1.00	86,484
4	Slurry	121.8	726	40/70 Mesh	1.50	47,939
5	Slurry	122.2	486	40/70 Mesh	2.00	42,837
6	Slurry	121.8	337	40/70 Mesh	2.50	37,555
7	Slurry	121.9	188	40/70 Mesh	3.00	14,832
8	Flush	113.3	342		0.00	0
9		0.0	0		0.00	0
Totals			7,535			282,120

Top Perforation	13,544 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	13,681 (ft)	Clean Vol.	7,535 (bbls)
Clusters	8	40/70 Mesh	282,120 (lbs)
Total Perforations	32	Total Proppant	282,120 (lbs)
Avg. Rate	119.8 (bpm)		
Avg. Pressure	8,131 (psi)		
Max Rate	123.2 (bpm)		
Max Pressure	8,612 (psi)		

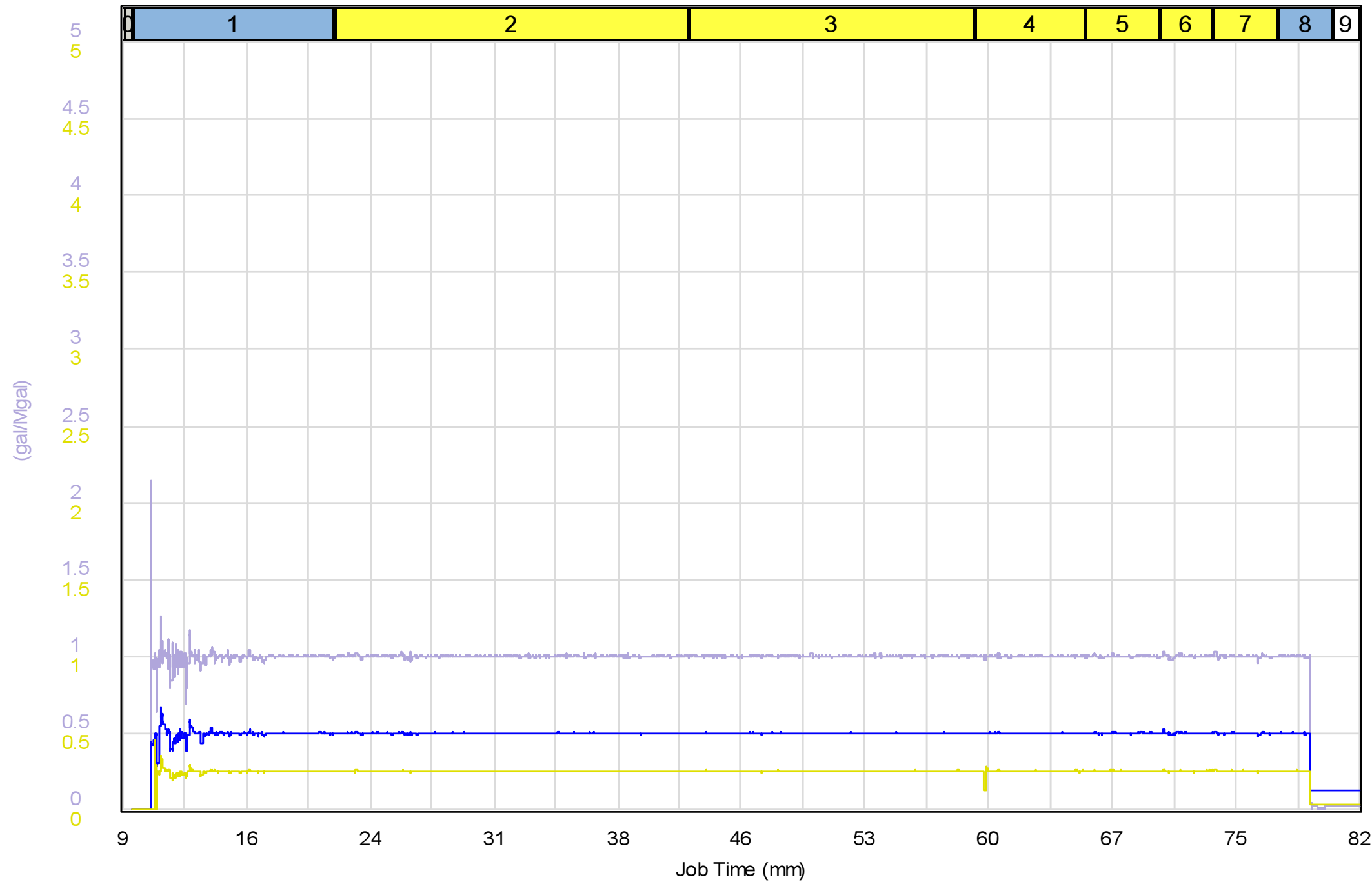
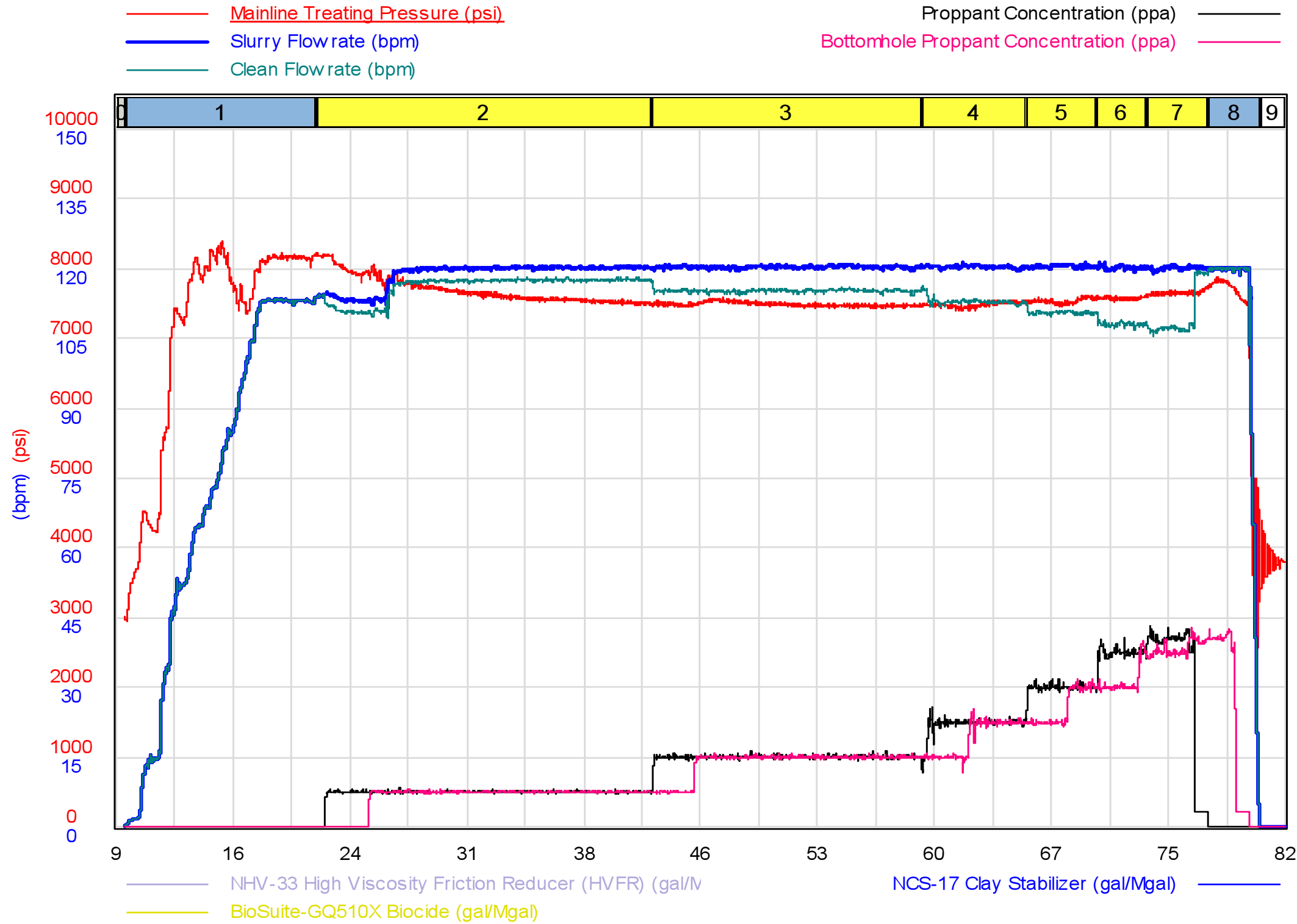
Pumped as directed by customer representative.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	90.0	963		0.00	0
2	Slurry	119.1	2,393	40/70 Mesh	0.50	48,244
3	Slurry	120.5	1,914	40/70 Mesh	1.00	77,089
4	Slurry	120.9	719	40/70 Mesh	1.50	42,893
5	Slurry	120.8	481	40/70 Mesh	2.00	37,978
6	Slurry	120.7	335	40/70 Mesh	2.50	32,854
7	Slurry	121.0	483	40/70 Mesh	3.00	41,081
8	Flush	111.6	292		0.00	0
9		0.0	0		0.00	0
Totals			7,581			280,140

Top Perforation	13,370 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	13,507 (ft)	Clean Vol.	7,581 (bbls)
Clusters	8	40/70 Mesh	280,140 (lbs)
Total Perforations	32	Total Proppant	280,140 (lbs)
Avg. Rate	120.1 (bpm)		
Avg. Pressure	8,003 (psi)		
Max Rate	122.5 (bpm)		
Max Pressure	8,580 (psi)		
NPT: 3.0 HRs waiting on Sand. Stage pumped by design			

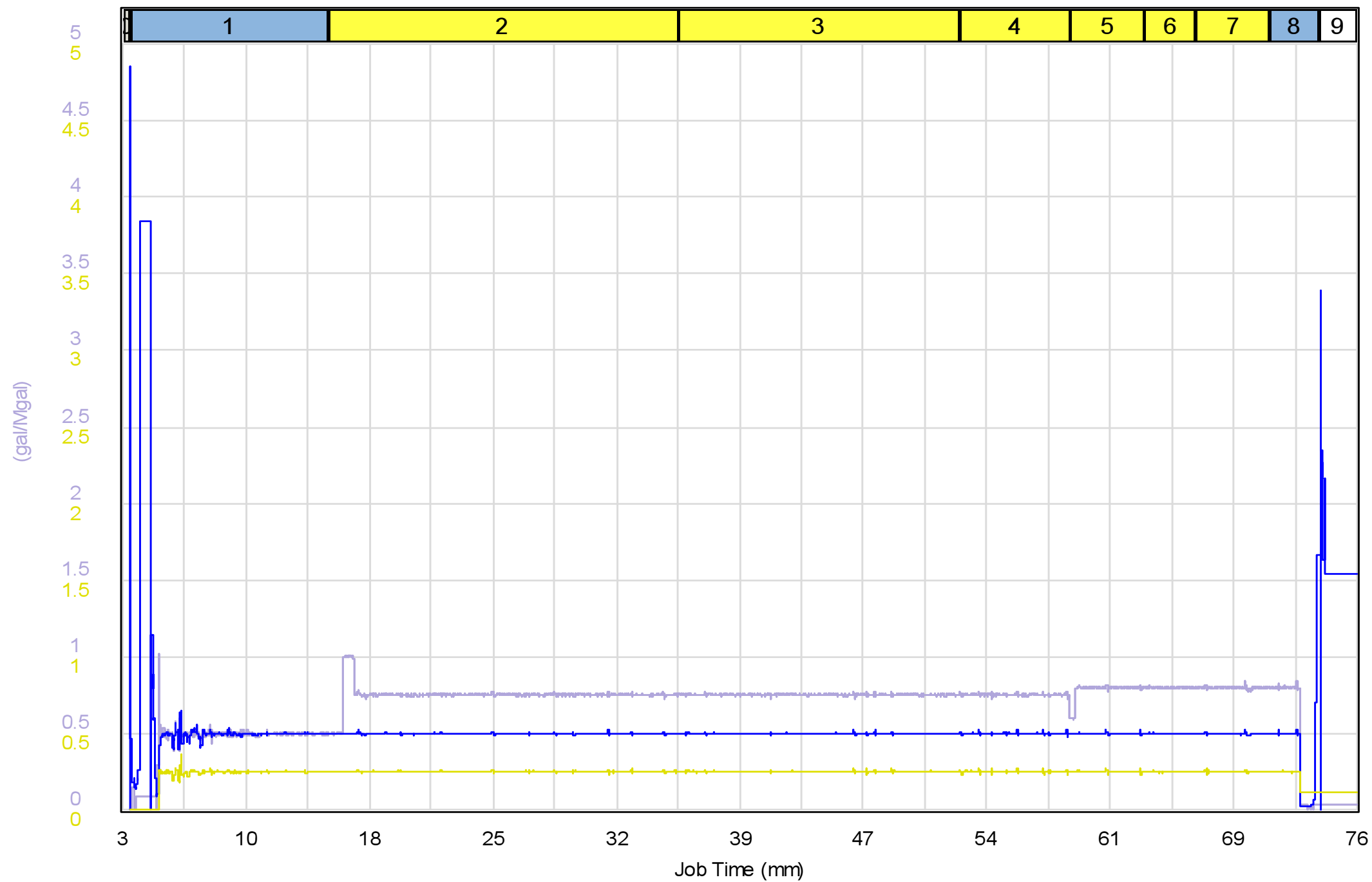
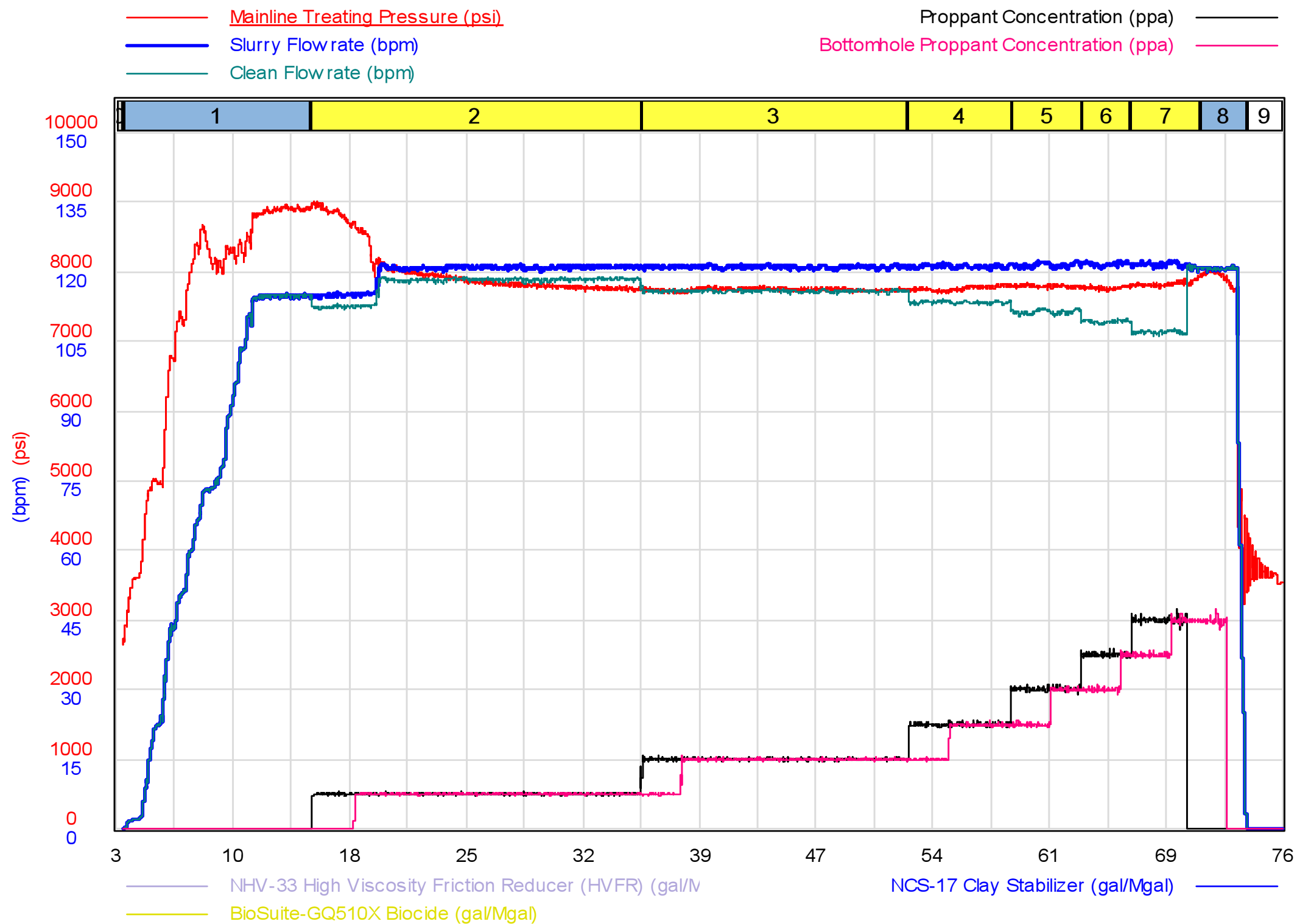


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	72.0	854		0.00	0
2	Slurry	118.8	2,434	40/70 Mesh	0.50	48,155
3	Slurry	120.5	1,944	40/70 Mesh	1.00	78,841
4	Slurry	120.5	732	40/70 Mesh	1.50	43,741
5	Slurry	120.6	487	40/70 Mesh	2.00	39,476
6	Slurry	120.3	341	40/70 Mesh	2.50	34,476
7	Slurry	120.2	417	40/70 Mesh	3.00	35,474
8	Flush	106.0	345		0.00	18
9		0.0	0		0.00	0
Totals			7,553			280,180

Top Perforation	13,195 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	13,332 (ft)	Clean Vol.	7,553 (bbls)
Clusters	8	40/70 Mesh	280,180 (lbs)
Total Perforations	32	Total Proppant	280,180 (lbs)
Avg. Rate	120.2 (bpm)		
Avg. Pressure	7,568 (psi)		
Max Rate	121.2 (bpm)		
Max Pressure	8,066 (psi)		

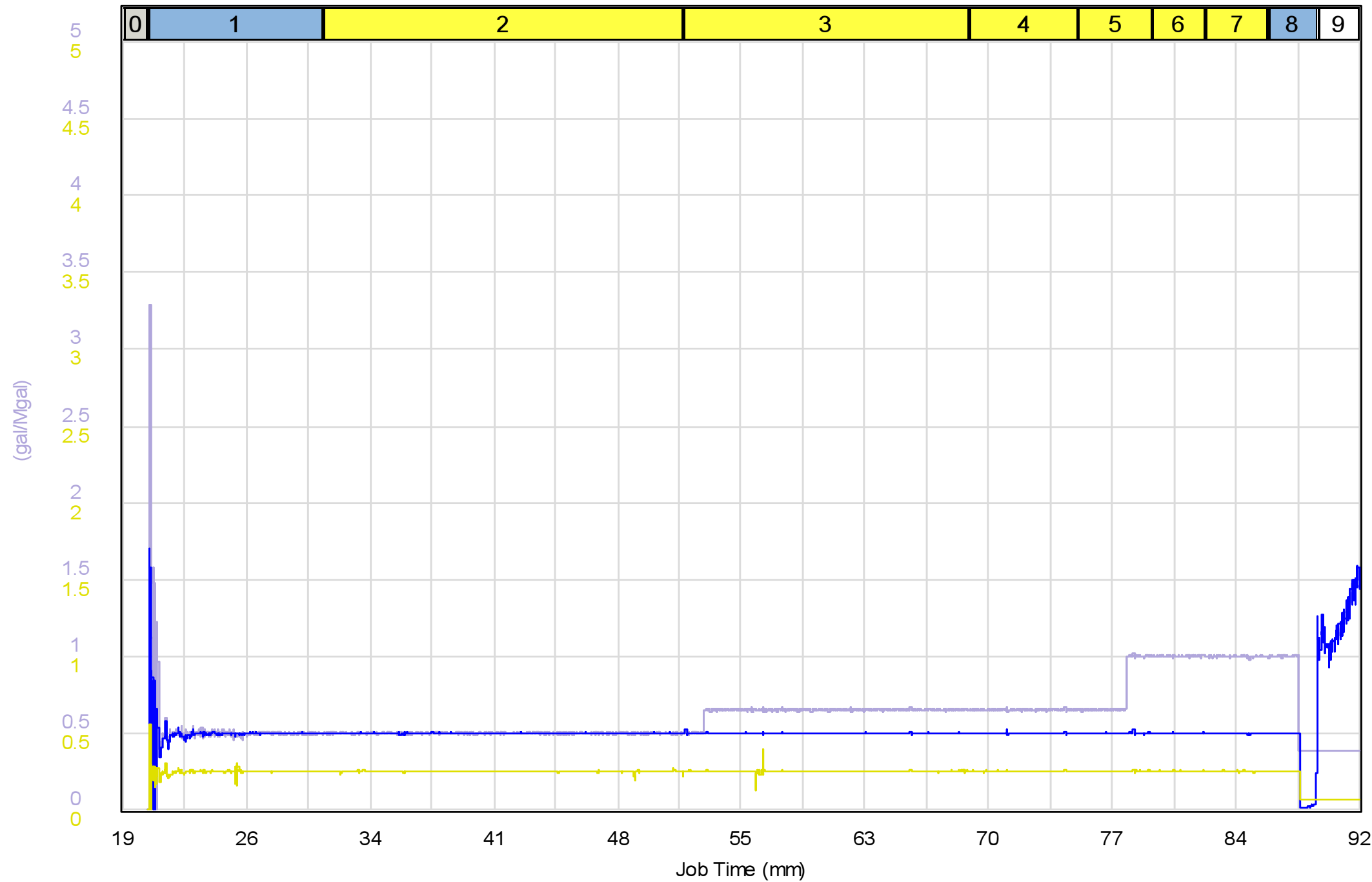
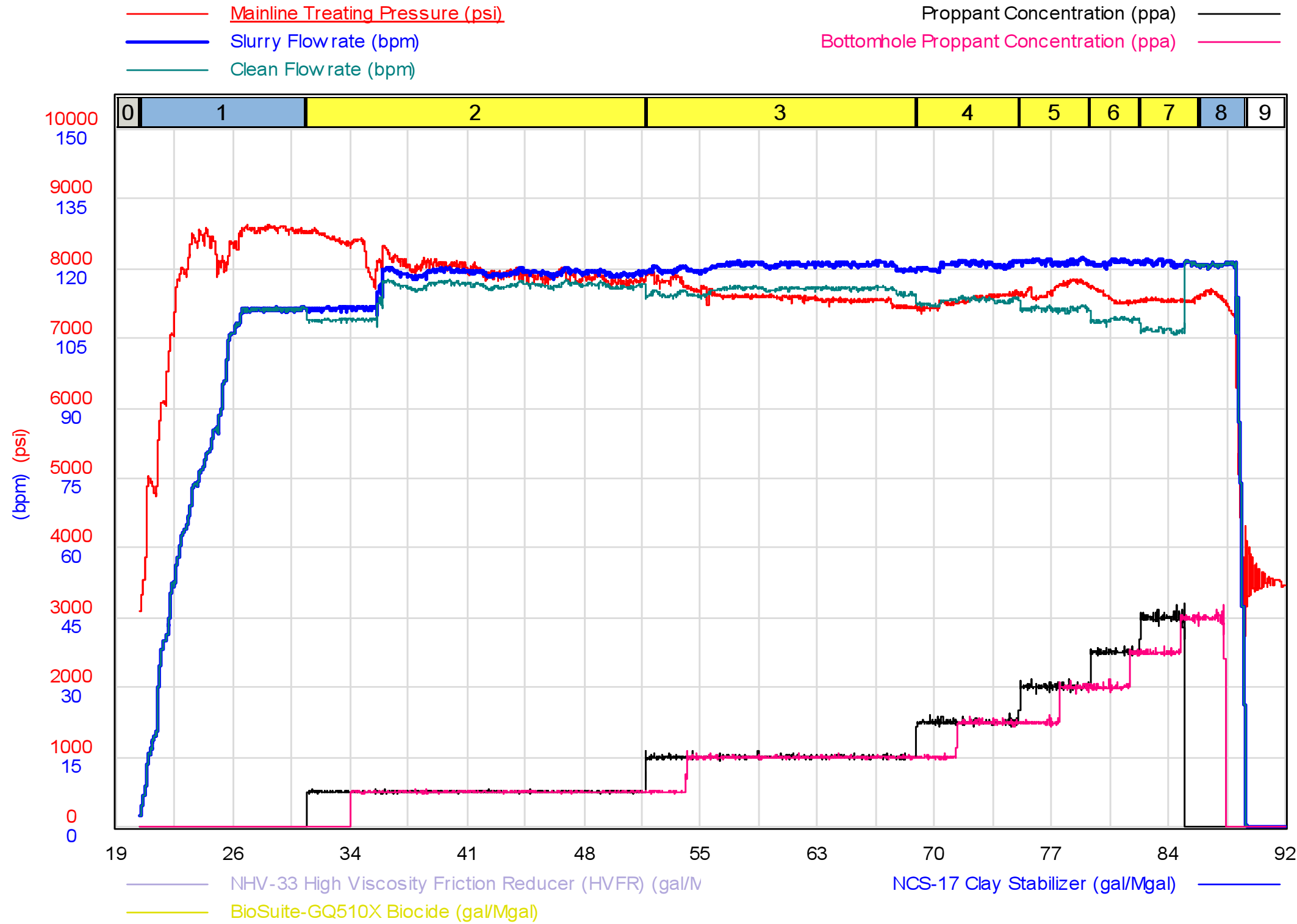
1.65 HRs of NPT due to waiting on proppant. Pumped stage by design. All proppant placed.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	71.9	847		0.00	0
2	Slurry	119.8	2,419	40/70 Mesh	0.50	46,985
3	Slurry	121.1	1,939	40/70 Mesh	1.00	75,458
4	Slurry	121.2	732	40/70 Mesh	1.50	42,653
5	Slurry	121.5	486	40/70 Mesh	2.00	37,922
6	Slurry	121.7	343	40/70 Mesh	2.50	33,343
7	Slurry	121.5	473	40/70 Mesh	3.00	44,124
8	Flush	105.9	311		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,550			280,485

Top Perforation	13,020 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	13,157 (ft)	Clean Vol.	7,550 (bbls)
Clusters	8	40/70 Mesh	280,485 (lbs)
Total Perforations	32	Total Proppant	280,485 (lbs)
Avg. Rate	121.0 (bpm)		
Avg. Pressure	7,821 (psi)		
Max Rate	122.6 (bpm)		
Max Pressure	8,730 (psi)		
No NPT. Stage pumped by design. All proppant placed.			

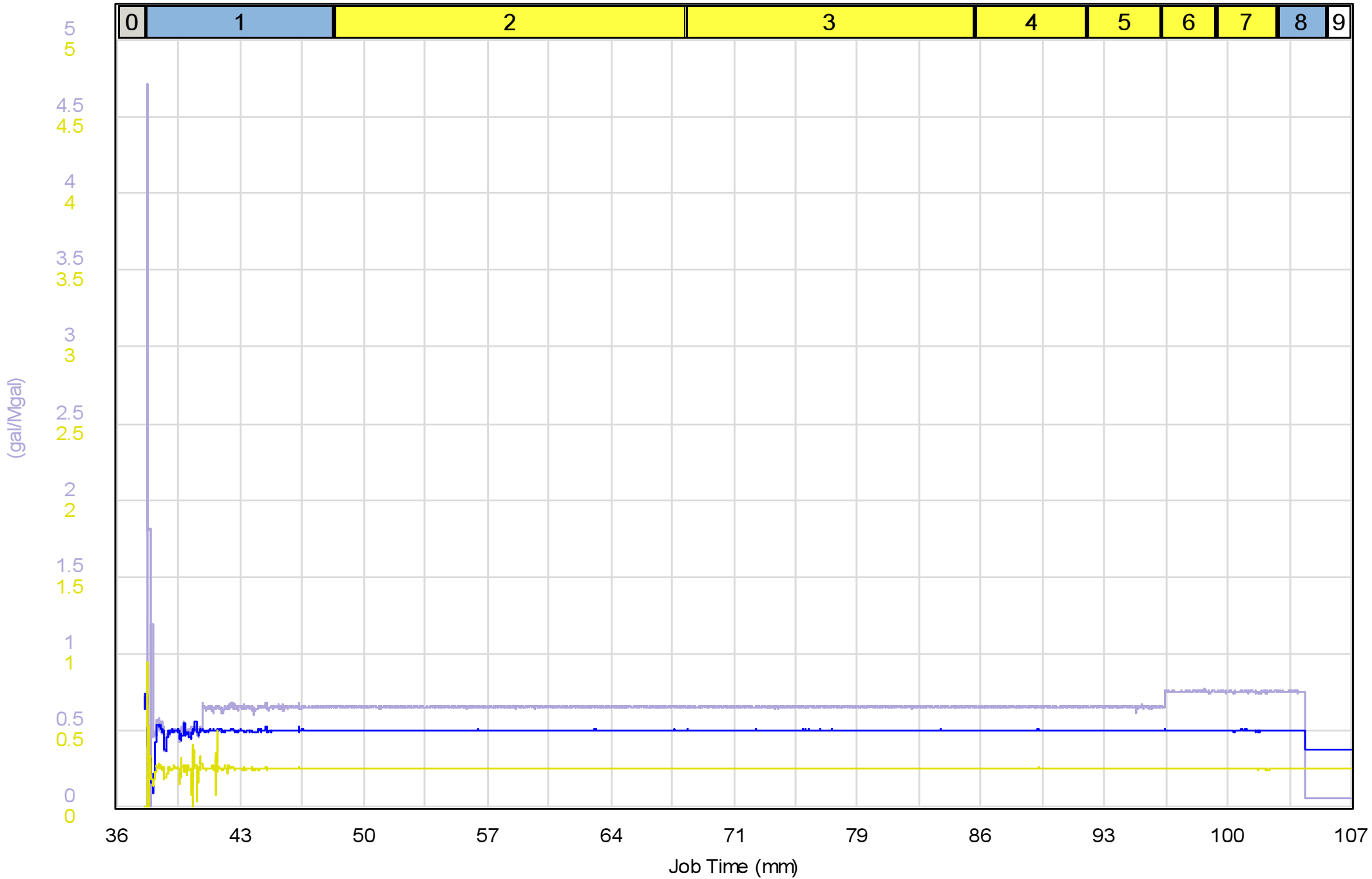
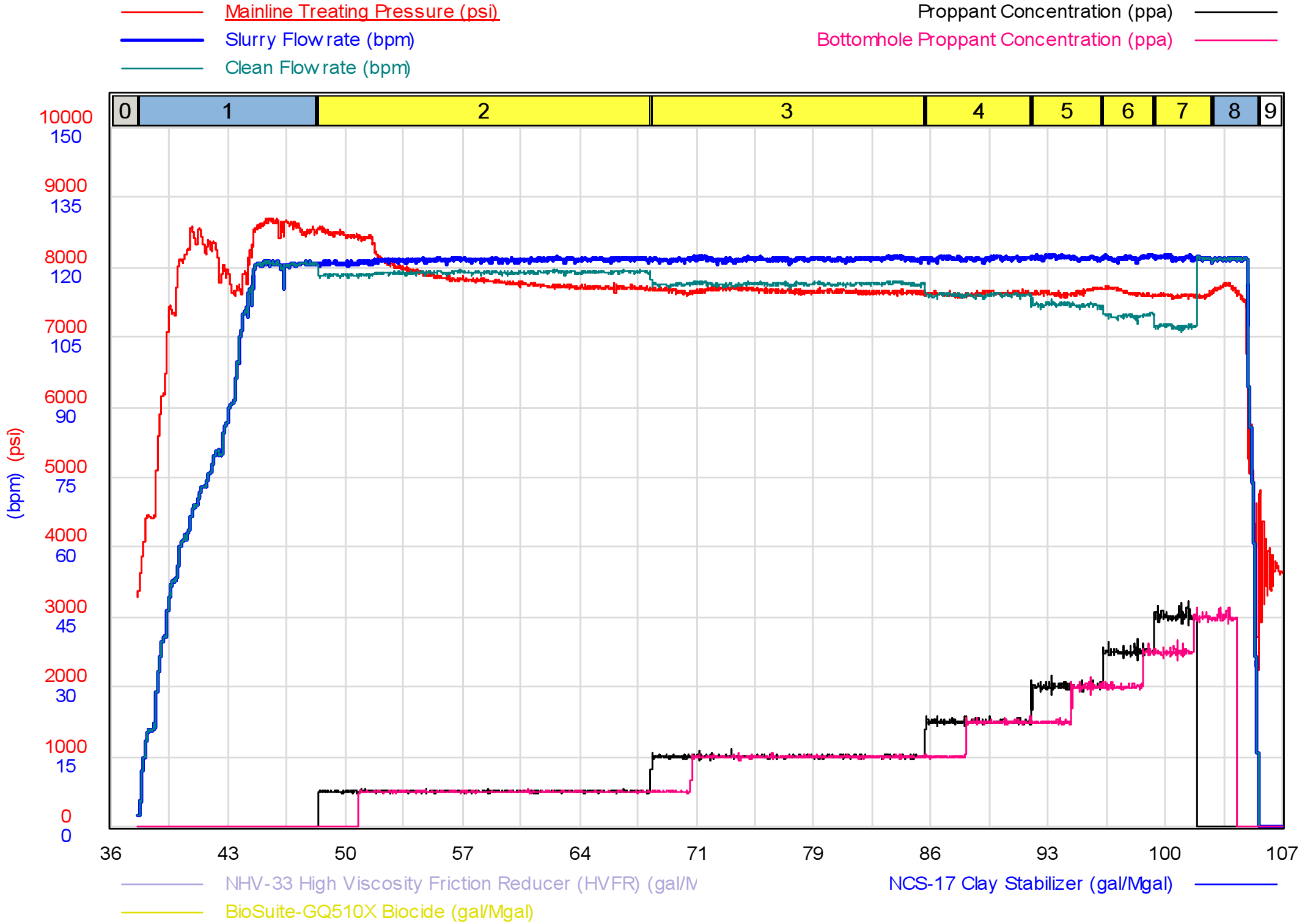


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	82.3	845		0.00	0
2	Slurry	117.5	2,422	40/70 Mesh	0.50	48,613
3	Slurry	120.6	1,942	40/70 Mesh	1.00	78,157
4	Slurry	120.8	726	40/70 Mesh	1.50	43,816
5	Slurry	121.5	488	40/70 Mesh	2.00	39,338
6	Slurry	121.3	340	40/70 Mesh	2.50	34,182
7	Slurry	121.3	410	40/70 Mesh	3.00	36,213
8	Flush	108.3	318		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,491			280,320

Top Perforation	12,846 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	12,982 (ft)	Clean Vol.	7,491 (bbls)
Clusters	8	40/70 Mesh	280,320 (lbs)
Total Perforations	32	Total Proppant	280,320 (lbs)
Avg. Rate	120.0 (bpm)		
Avg. Pressure	7,735 (psi)		
Max Rate	122.4 (bpm)		
Max Pressure	8,438 (psi)		

No NPT. Stage pumped by design. All proppant placed.

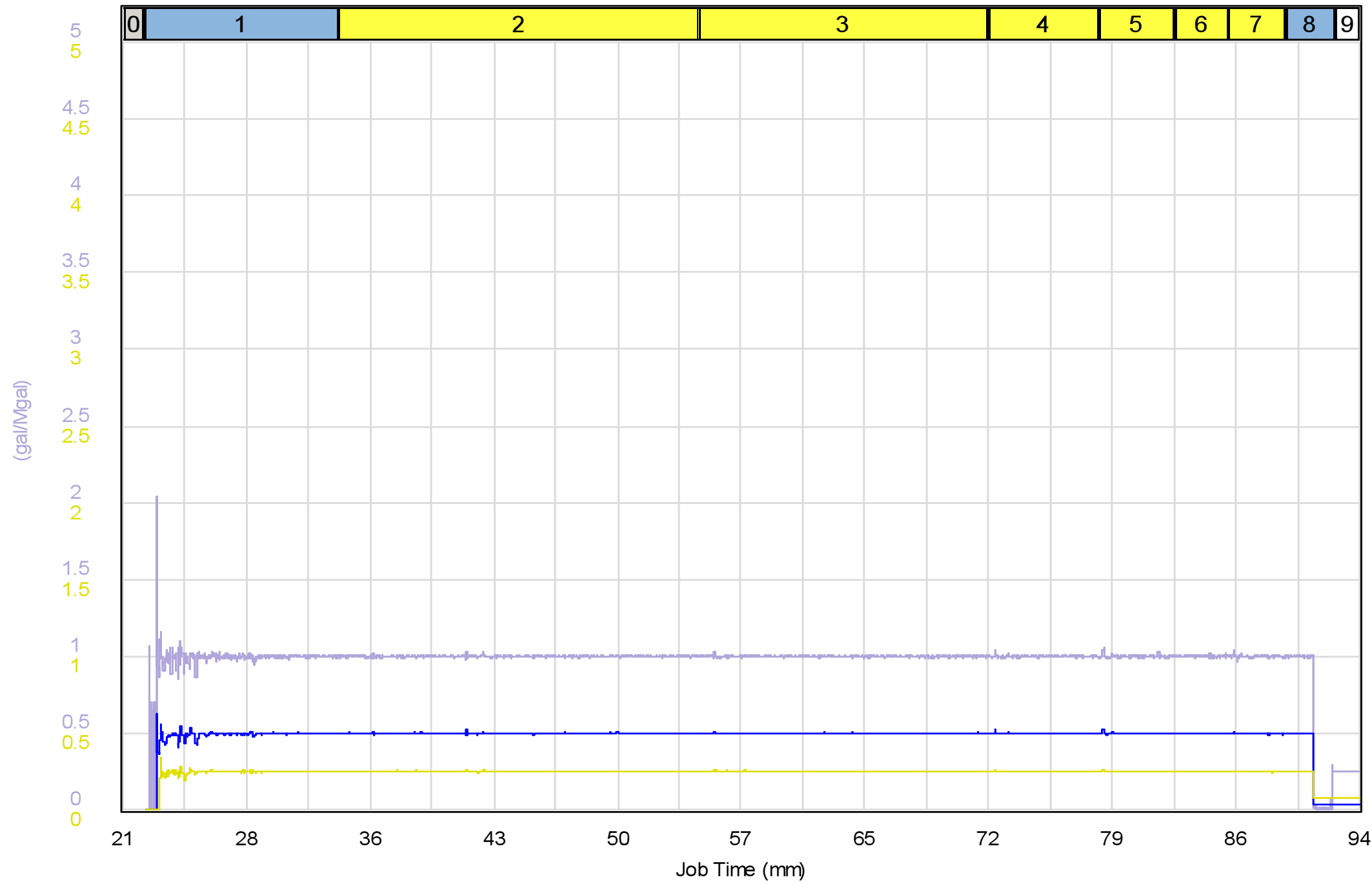
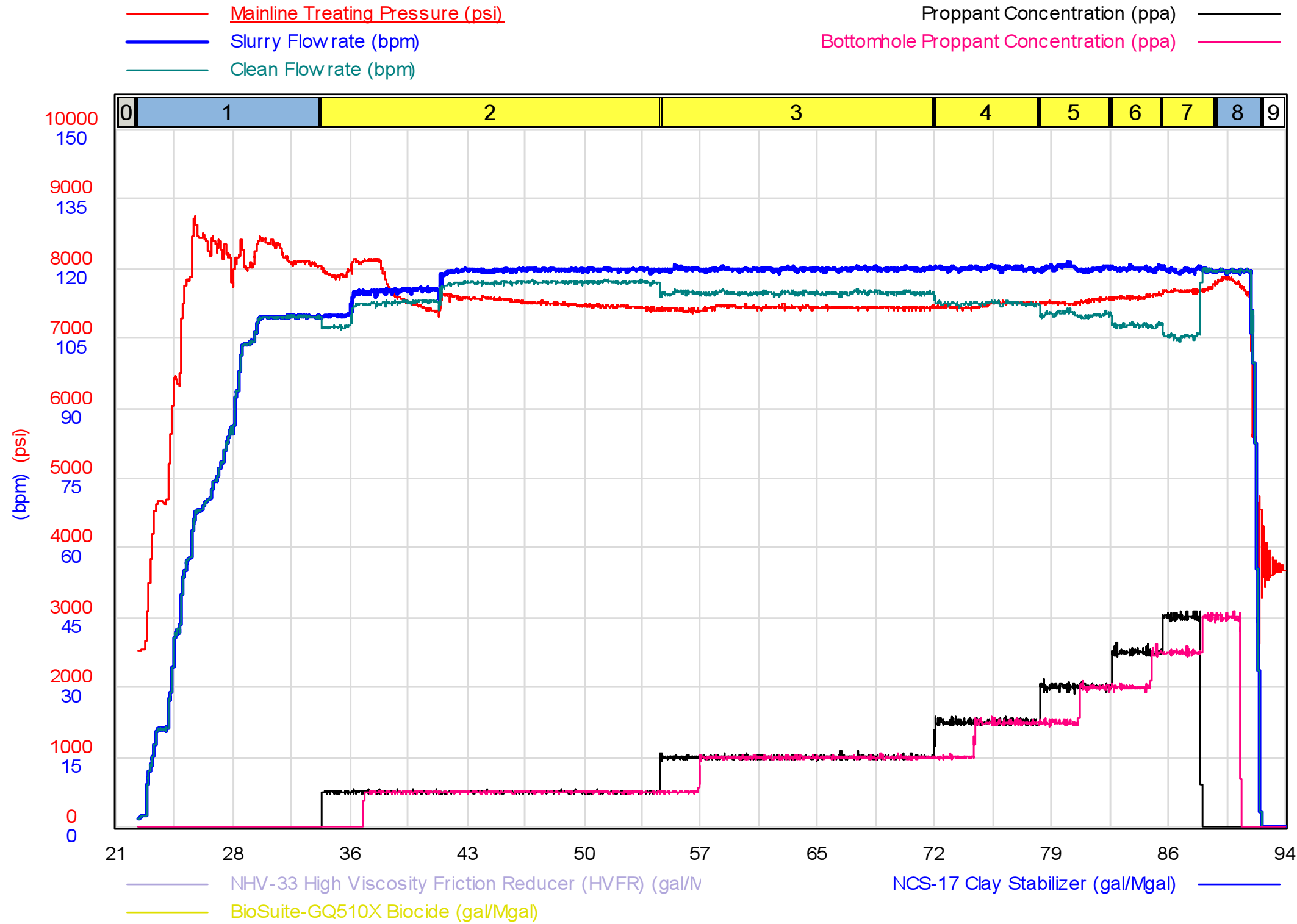


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	84.7	925		0.00	0
2	Slurry	121.5	2,406	40/70 Mesh	0.50	48,620
3	Slurry	121.8	1,945	40/70 Mesh	1.00	78,773
4	Slurry	121.9	731	40/70 Mesh	1.50	44,374
5	Slurry	122.1	489	40/70 Mesh	2.00	39,556
6	Slurry	122.0	344	40/70 Mesh	2.50	34,763
7	Slurry	122.0	385	40/70 Mesh	3.00	34,434
8	Flush	106.8	312		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,536			280,520

Top Perforation	12,671 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	12,808 (ft)	Clean Vol.	7,536 (bbls)
Clusters	8	40/70 Mesh	280,520 (lbs)
Total Perforations	32	Total Proppant	280,520 (lbs)
Avg. Rate	121.8 (bpm)		
Avg. Pressure	7,714 (psi)		
Max Rate	122.9 (bpm)		
Max Pressure	8,470 (psi)		

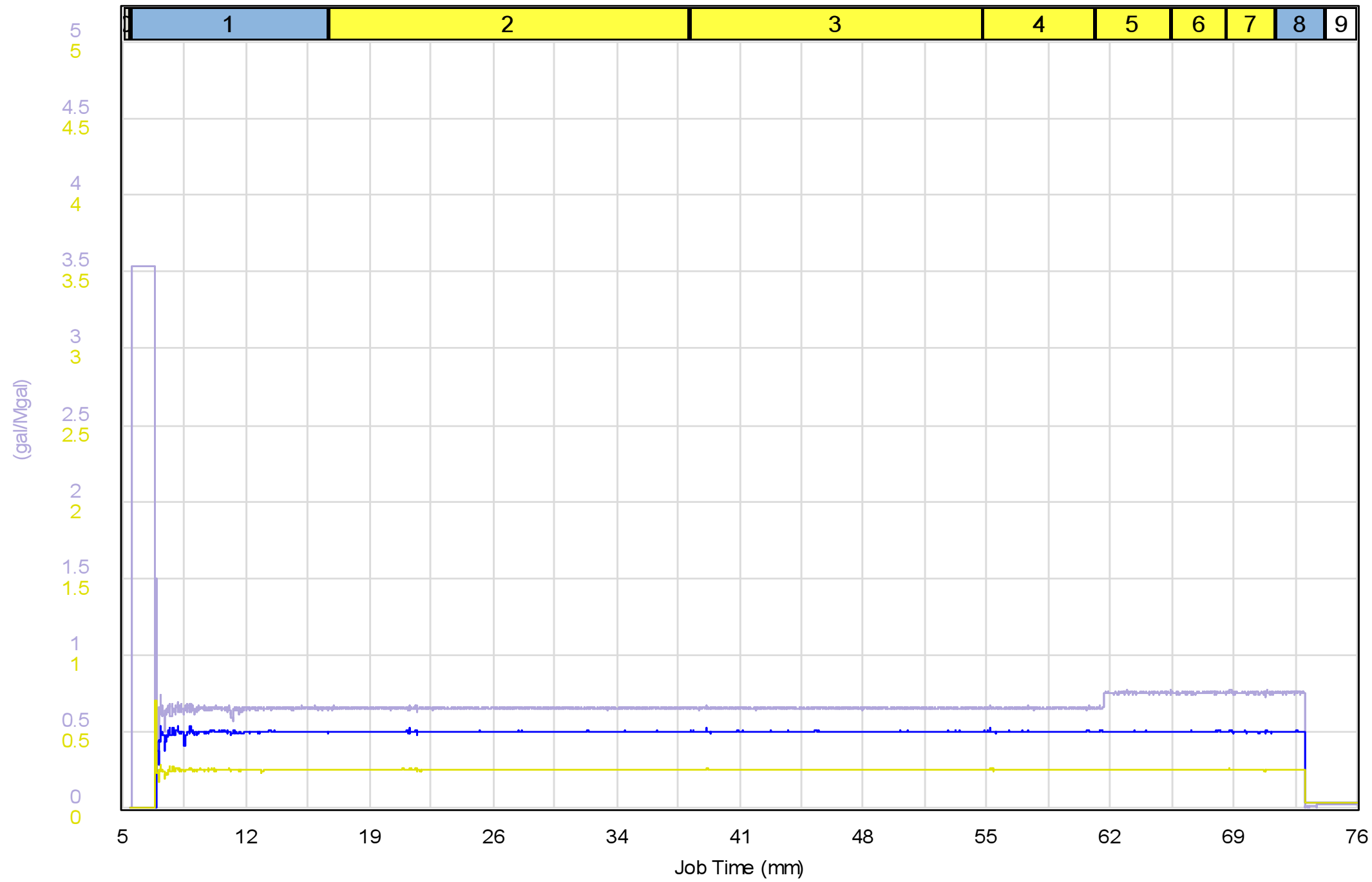
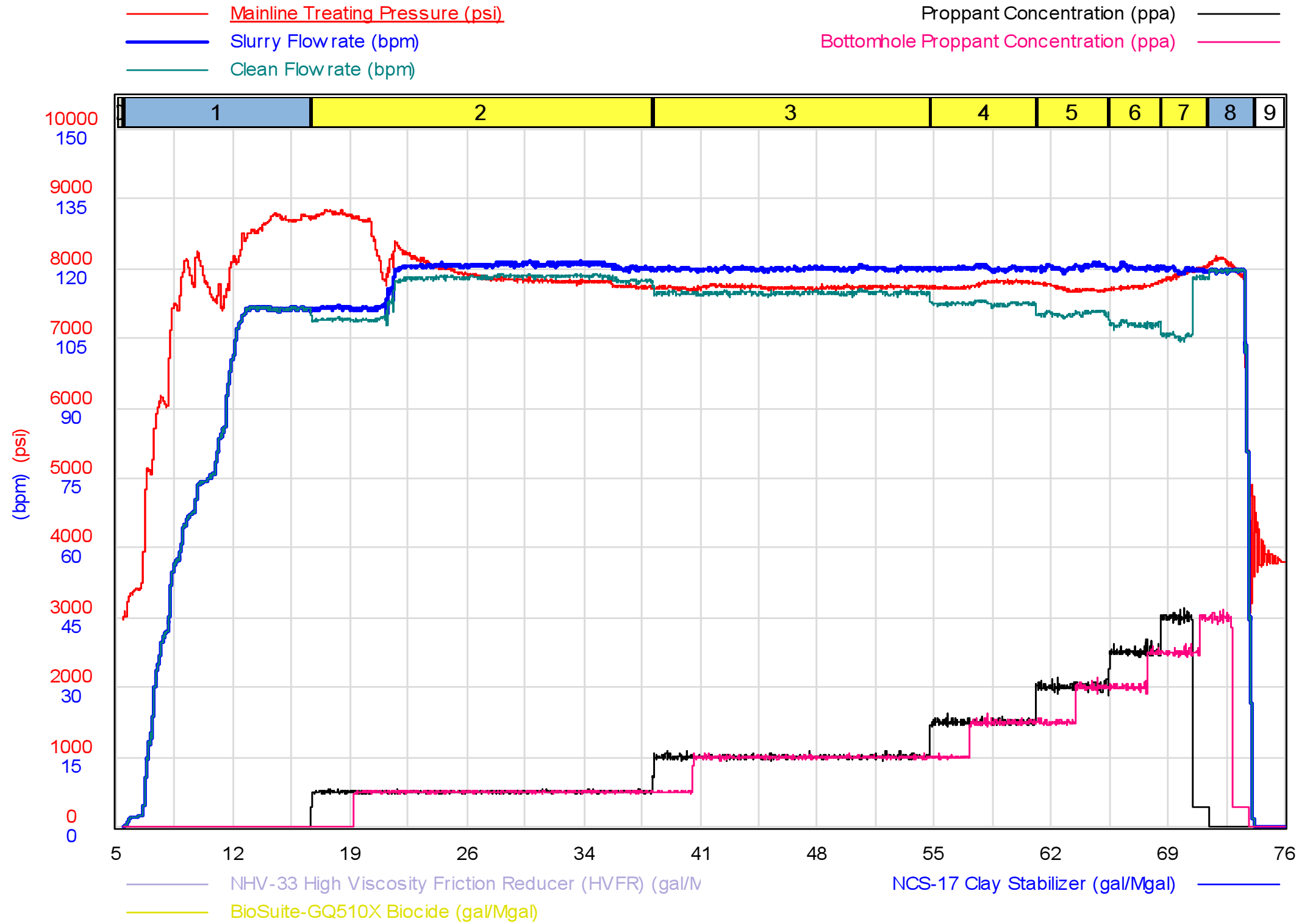
No NPT. Stage pumped by design. All proppant placed.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	75.6	854		0.00	0
2	Slurry	117.7	2,417	40/70 Mesh	0.50	49,335
3	Slurry	120.0	1,948	40/70 Mesh	1.00	79,786
4	Slurry	120.2	733	40/70 Mesh	1.50	45,034
5	Slurry	120.3	491	40/70 Mesh	2.00	40,185
6	Slurry	120.1	338	40/70 Mesh	2.50	34,616
7	Slurry	119.8	354	40/70 Mesh	3.00	31,625
8	Flush	107.3	313		0.00	0
9		0.0	0		0.00	0
Totals			7,448			280,580

Top Perforation	12,496 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	12,633 (ft)	Clean Vol.	7,448 (bbls)
Clusters	8	40/70 Mesh	280,580 (lbs)
Total Perforations	32	Total Proppant	280,580 (lbs)
Avg. Rate	119.5 (bpm)		
Avg. Pressure	7,526 (psi)		
Max Rate	121.4 (bpm)		
Max Pressure	8,146 (psi)		
.18 HRs NPT due to waiting on sound wall. Pumped by design. All proppant placed.			

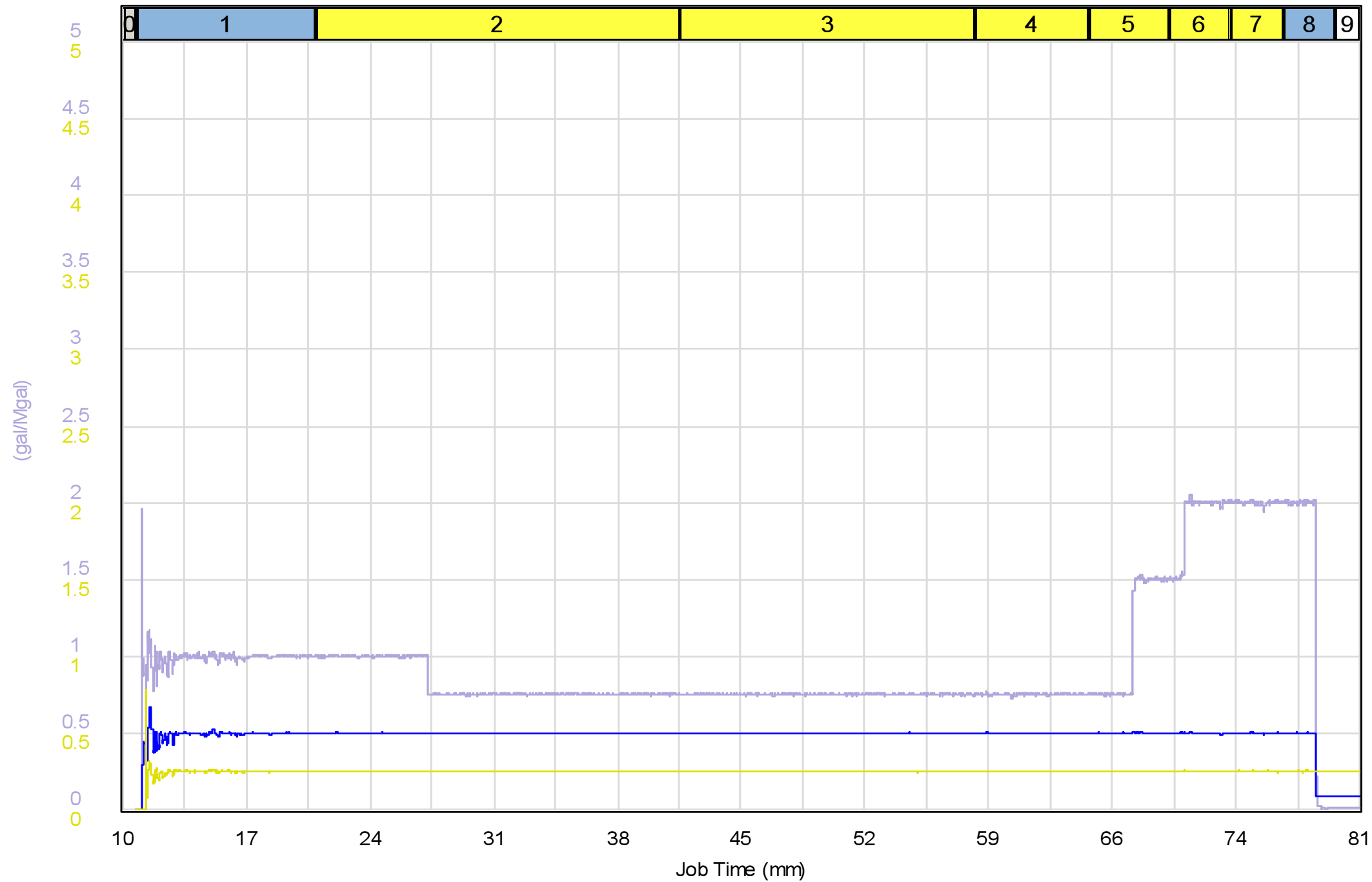
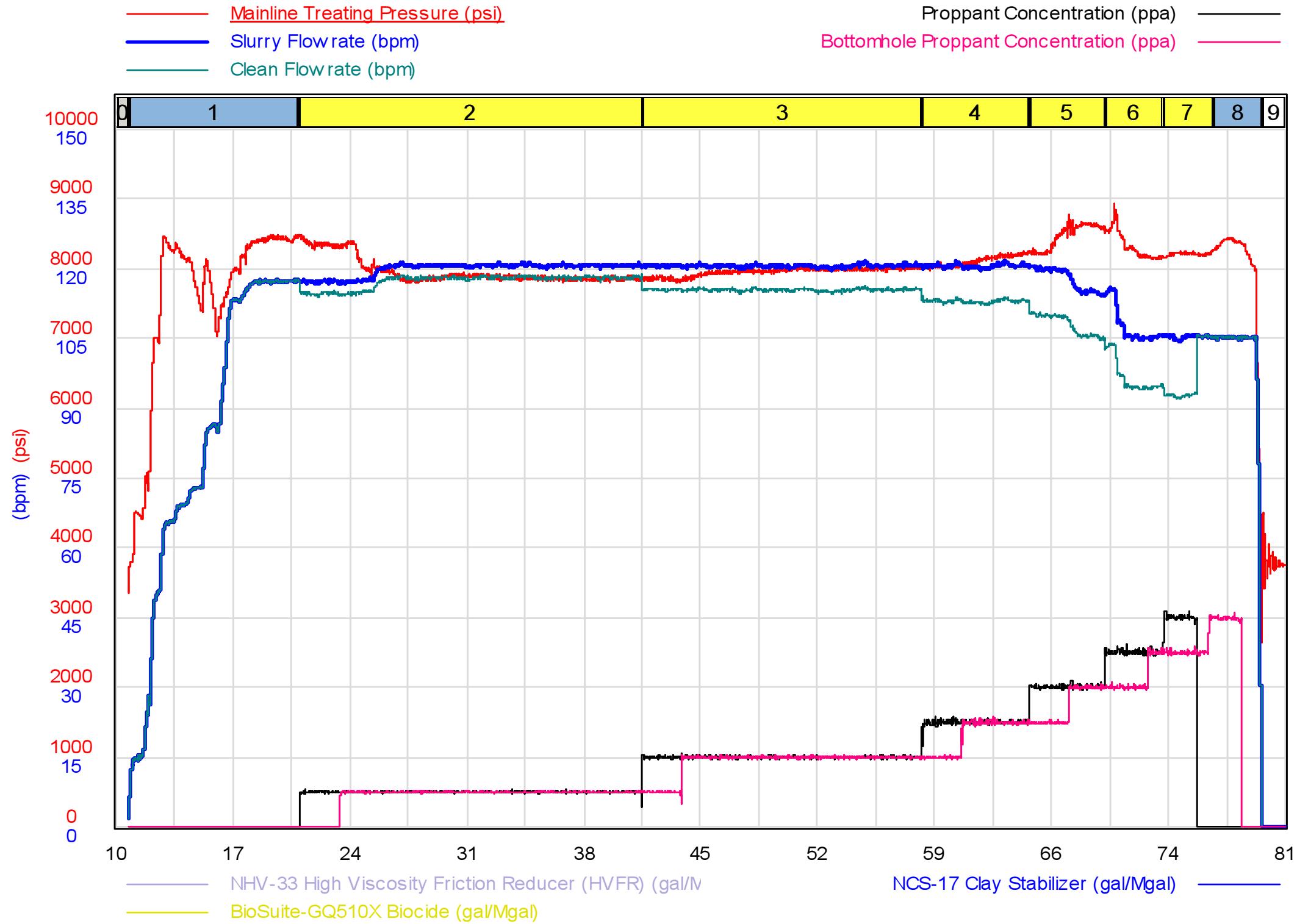


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	75.0	852		0.00	0
2	Slurry	118.6	2,422	40/70 Mesh	0.50	50,275
3	Slurry	120.0	1,939	40/70 Mesh	1.00	80,733
4	Slurry	120.1	729	40/70 Mesh	1.50	45,540
5	Slurry	120.4	488	40/70 Mesh	2.00	40,630
6	Slurry	120.3	344	40/70 Mesh	2.50	35,791
7	Slurry	119.8	318	40/70 Mesh	3.00	27,147
8	Flush	107.4	297		0.00	23
9		0.0	0		0.00	0
Totals			7,389			280,140

Top Perforation	12,321 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	12,458 (ft)	Clean Vol.	7,389 (bbls)
Clusters	8	40/70 Mesh	280,140 (lbs)
Total Perforations	32	Total Proppant	280,140 (lbs)
Avg. Rate	119.9 (bpm)		
Avg. Pressure	7,836 (psi)		
Max Rate	121.5 (bpm)		
Max Pressure	8,751 (psi)		

No NPT. Pumped by design. All proppant placed.

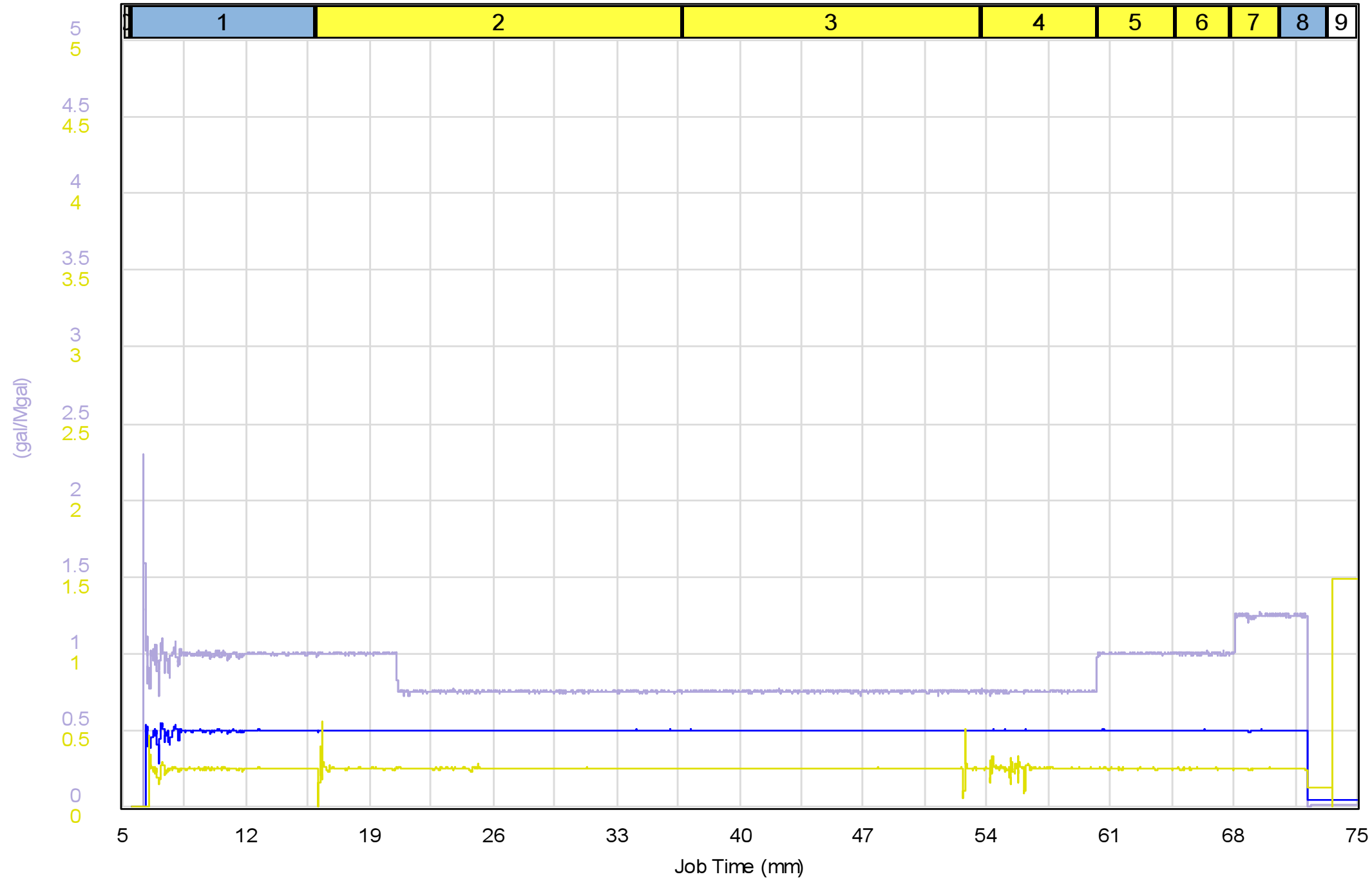
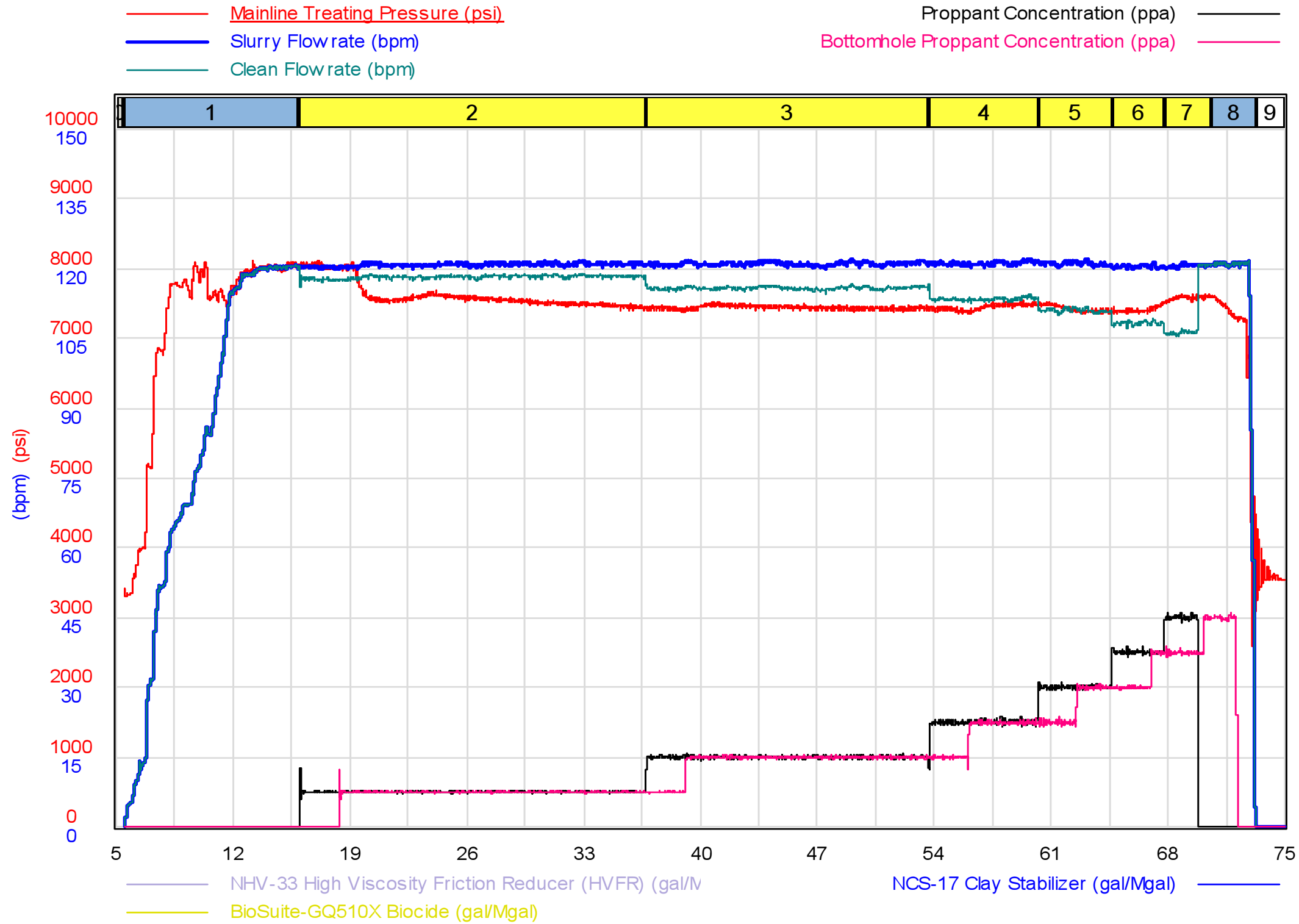


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	83.2	851		0.00	0
2	Slurry	120.0	2,439	40/70 Mesh	0.50	50,982
3	Slurry	120.7	1,949	40/70 Mesh	1.00	81,862
4	Slurry	120.7	737	40/70 Mesh	1.50	46,334
5	Slurry	117.8	488	40/70 Mesh	2.00	41,028
6	Slurry	107.7	344	40/70 Mesh	2.50	36,068
7	Slurry	105.4	289	40/70 Mesh	3.00	23,825
8	Flush	99.5	300		0.00	0
9		0.0	0		0.00	0
Totals			7,397			280,100

Top Perforation	12,147 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	12,284 (ft)	Clean Vol.	7,397 (bbls)
Clusters	8	40/70 Mesh	280,100 (lbs)
Total Perforations	32	Total Proppant	280,100 (lbs)
Avg. Rate	118.2 (bpm)		
Avg. Pressure	8,058 (psi)		
Max Rate	121.8 (bpm)		
Max Pressure	8,940 (psi)		

No NPT. Pumped by design. All proppant placed.

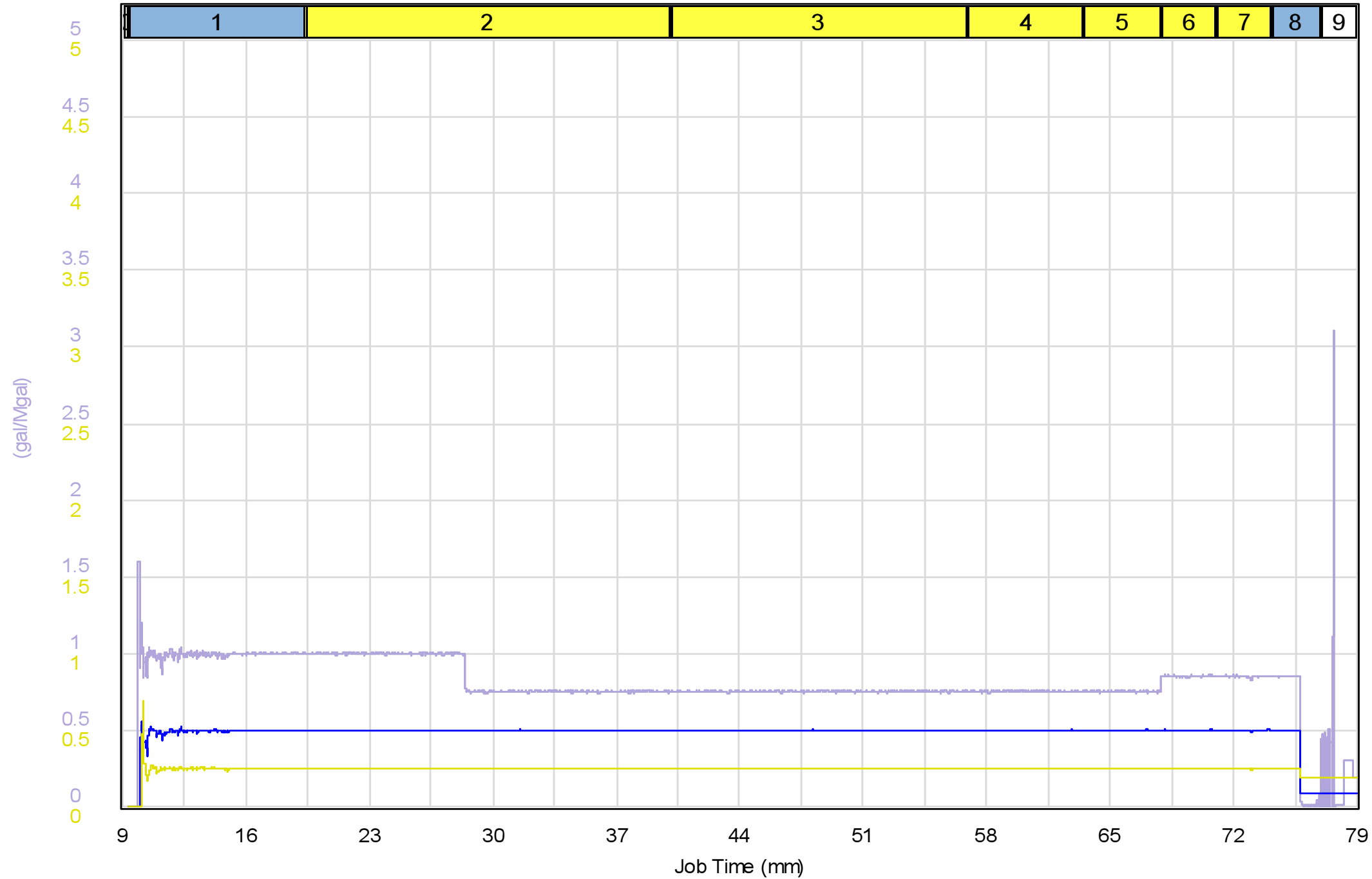
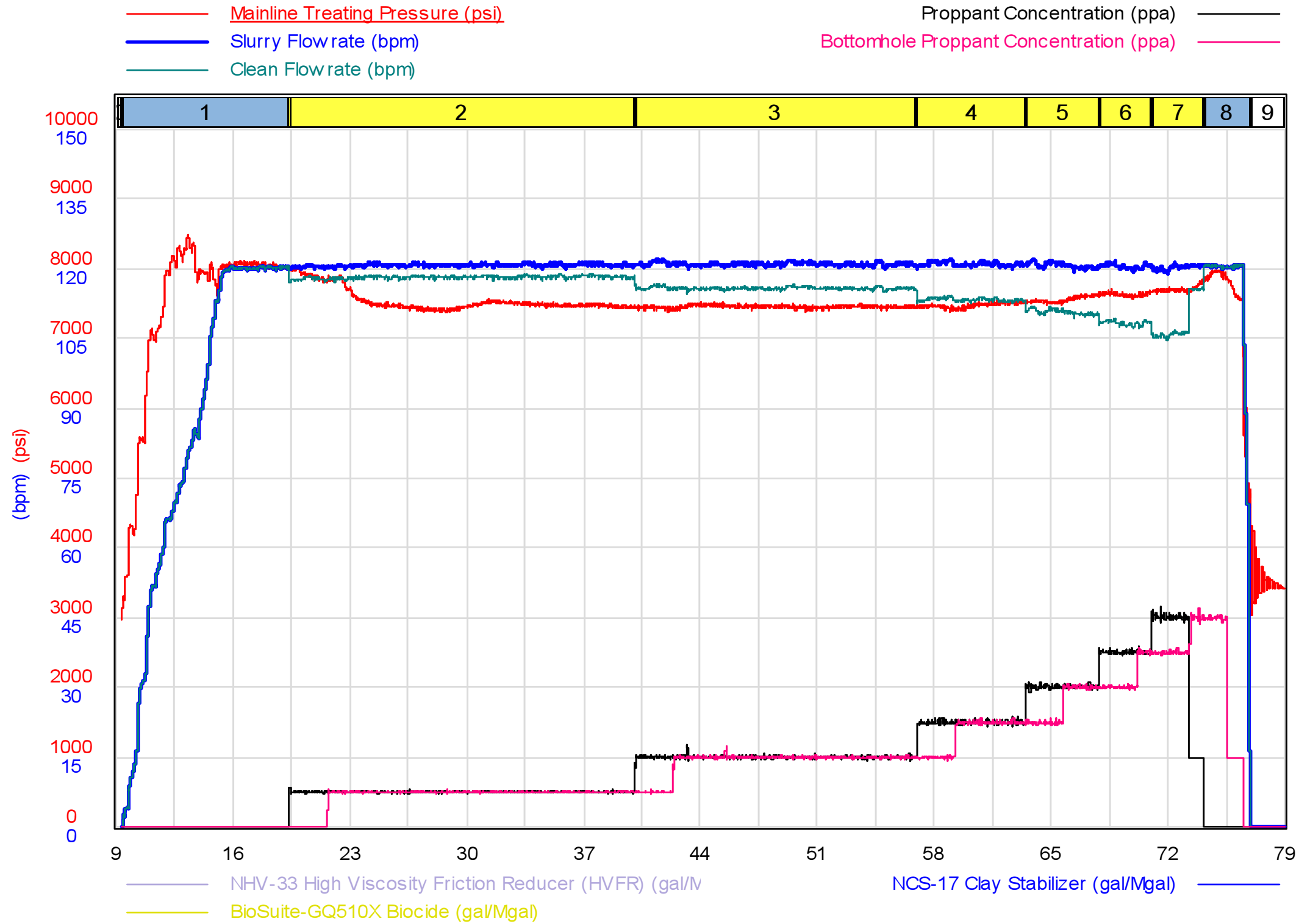


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	82.1	855		0.00	0
2	Slurry	120.9	2,447	40/70 Mesh	0.50	50,752
3	Slurry	121.1	1,960	40/70 Mesh	1.00	81,414
4	Slurry	121.2	736	40/70 Mesh	1.50	45,785
5	Slurry	121.1	491	40/70 Mesh	2.00	40,766
6	Slurry	120.6	341	40/70 Mesh	2.50	35,450
7	Slurry	120.8	299	40/70 Mesh	3.00	26,313
8	Flush	111.4	305		0.00	0
9		0.0	0		0.00	0
Totals			7,434			280,480

Top Perforation	11,972 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	12,109 (ft)	Clean Vol.	7,434 (bbls)
Clusters	8	40/70 Mesh	280,480 (lbs)
Total Perforations	32	Total Proppant	280,480 (lbs)
Avg. Rate	121.0 (bpm)		
Avg. Pressure	7,494 (psi)		
Max Rate	122.1 (bpm)		
Max Pressure	8,085 (psi)		

No NPT. Pumped by design. All proppant placed.

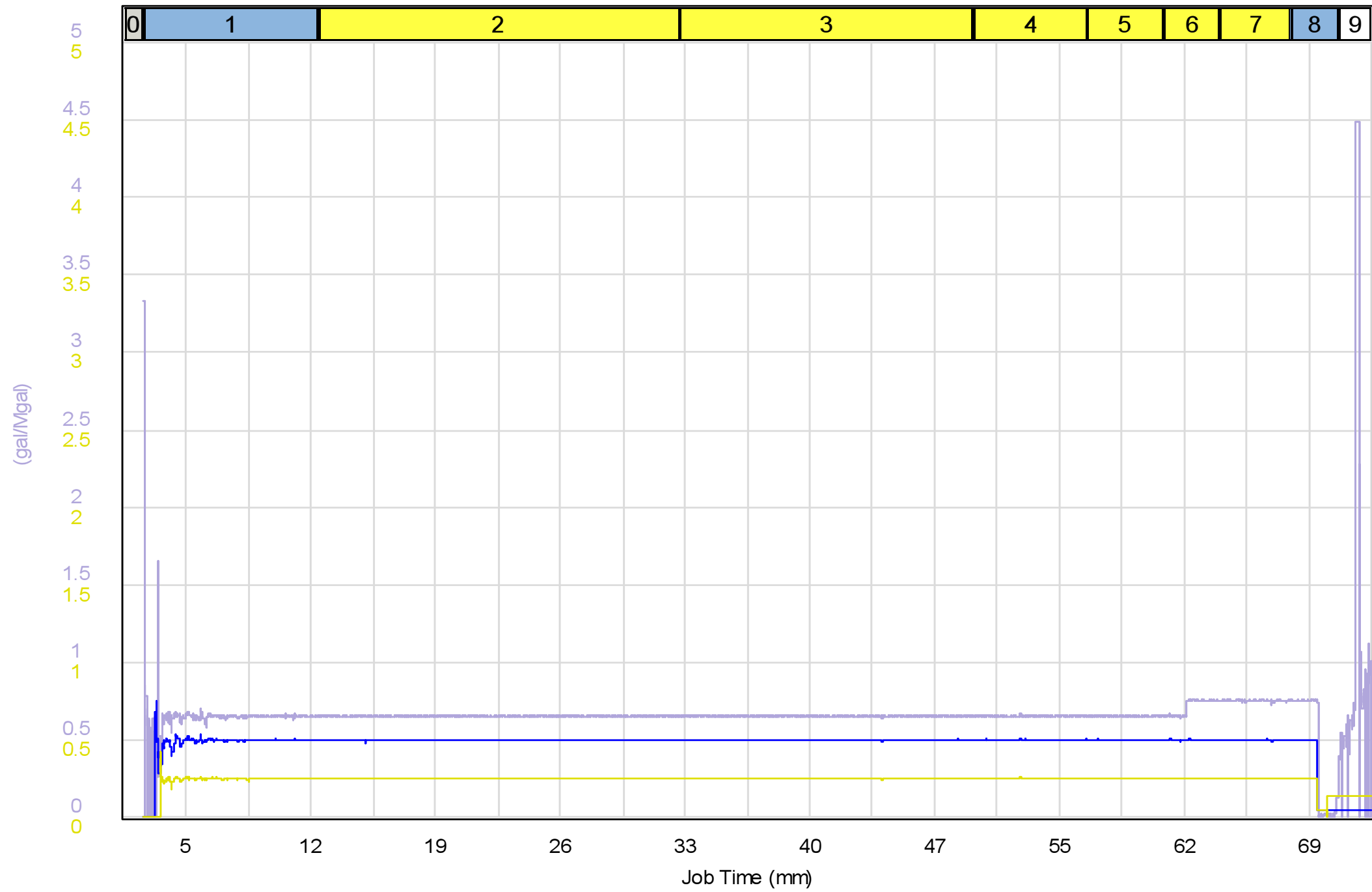
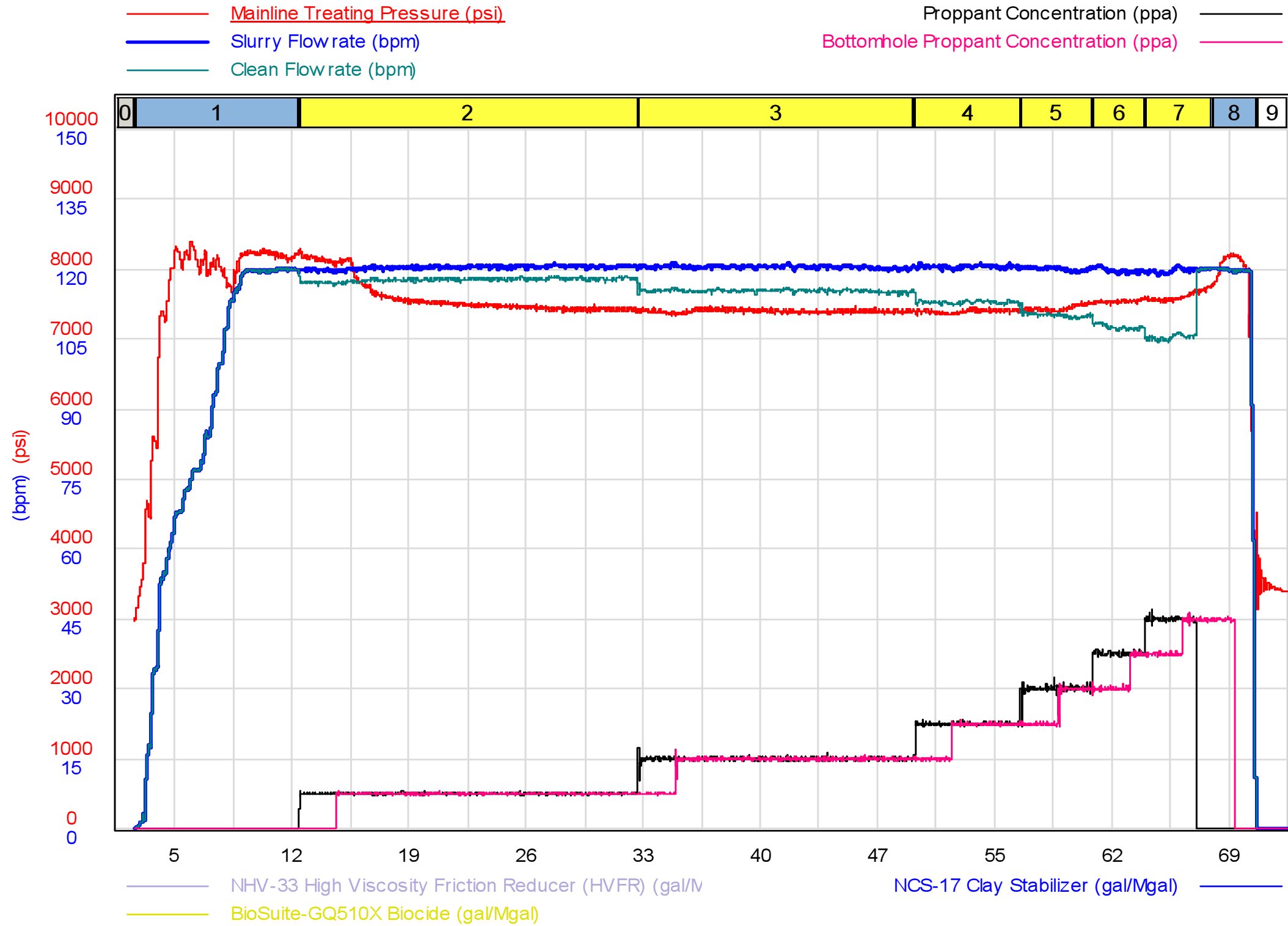


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	85.9	856		0.00	0
2	Slurry	120.8	2,442	40/70 Mesh	0.50	49,354
3	Slurry	121.1	1,955	40/70 Mesh	1.00	79,123
4	Slurry	121.1	737	40/70 Mesh	1.50	44,625
5	Slurry	120.8	489	40/70 Mesh	2.00	39,584
6	Slurry	120.6	341	40/70 Mesh	2.50	34,506
7	Slurry	120.4	342	40/70 Mesh	3.00	32,872
8	Flush	111.2	313		0.00	77
9		0.0	0		0.00	0
Totals			7,476			280,140

Top Perforation	11,797 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	11,934 (ft)	Clean Vol.	7,476 (bbls)
Clusters	8	40/70 Mesh	280,140 (lbs)
Total Perforations	32	Total Proppant	280,140 (lbs)
Avg. Rate	120.9 (bpm)		
Avg. Pressure	7,521 (psi)		
Max Rate	122.1 (bpm)		
Max Pressure	7,979 (psi)		

No NPT. Stage pumped by design. All proppant placed.

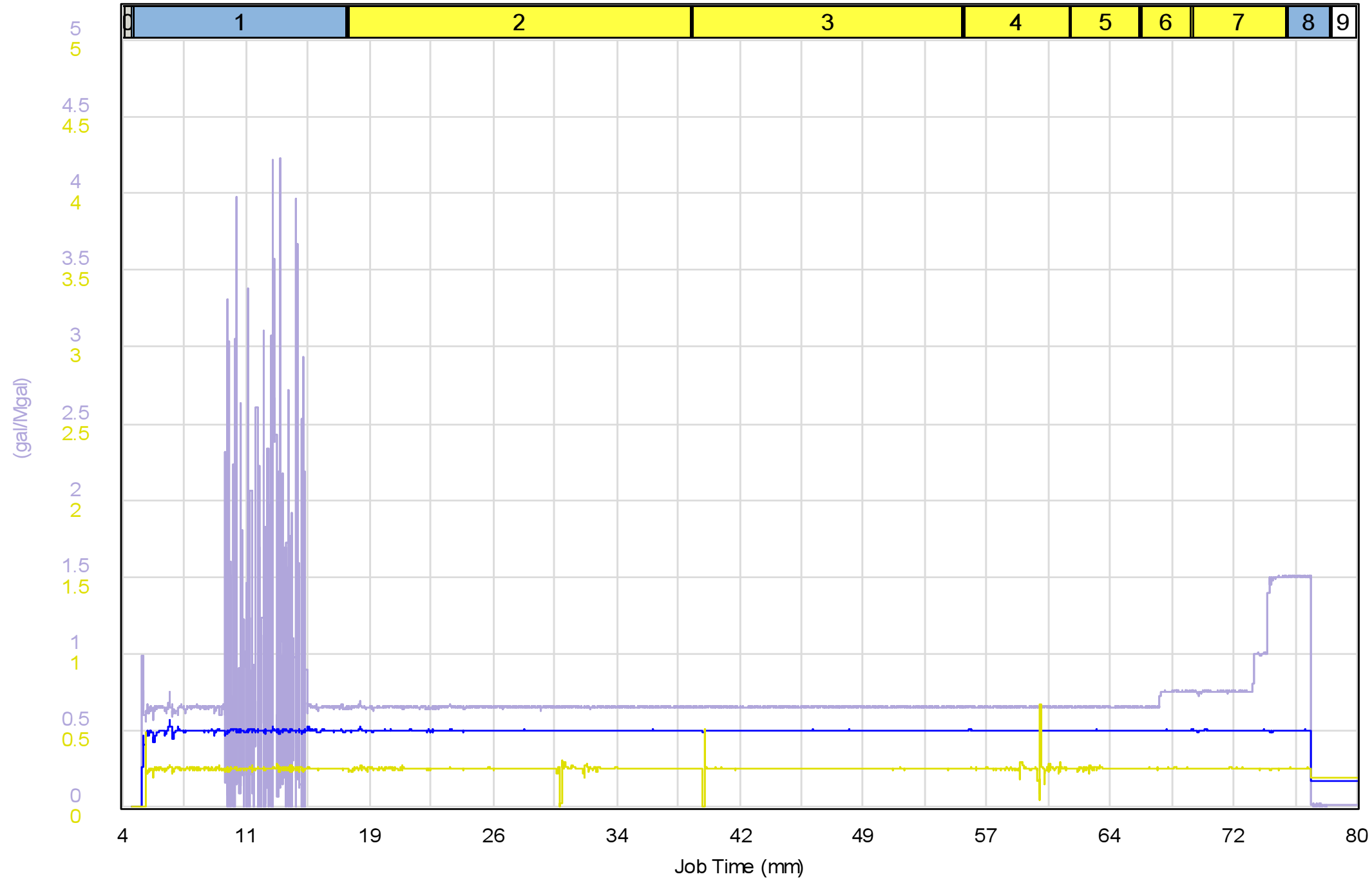
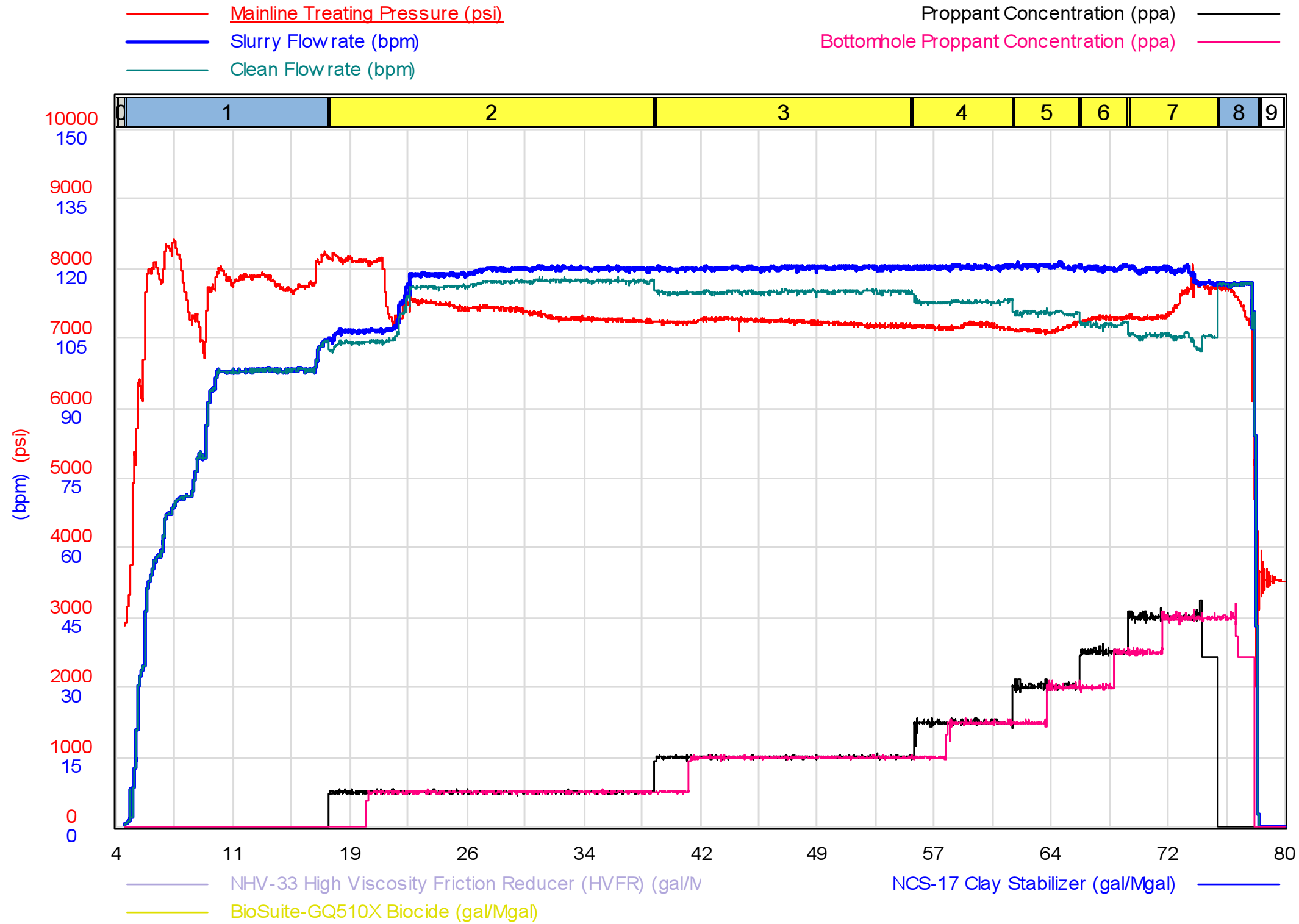


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	85.9	861		0.00	0
2	Slurry	120.5	2,439	40/70 Mesh	0.50	48,052
3	Slurry	120.6	1,948	40/70 Mesh	1.00	76,801
4	Slurry	120.6	730	40/70 Mesh	1.50	43,220
5	Slurry	120.2	487	40/70 Mesh	2.00	38,329
6	Slurry	119.8	339	40/70 Mesh	2.50	33,446
7	Slurry	119.8	449	40/70 Mesh	3.00	40,472
8	Flush	111.3	304		0.00	0
9		0.0	0		0.00	0
Totals			7,558			280,320

Top Perforation	11,622 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	11,759 (ft)	Clean Vol.	7,558 (bbls)
Clusters	8	40/70 Mesh	280,320 (lbs)
Total Perforations	32	Total Proppant	280,320 (lbs)
Avg. Rate	120.5 (bpm)		
Avg. Pressure	7,472 (psi)		
Max Rate	121.3 (bpm)		
Max Pressure	8,236 (psi)		

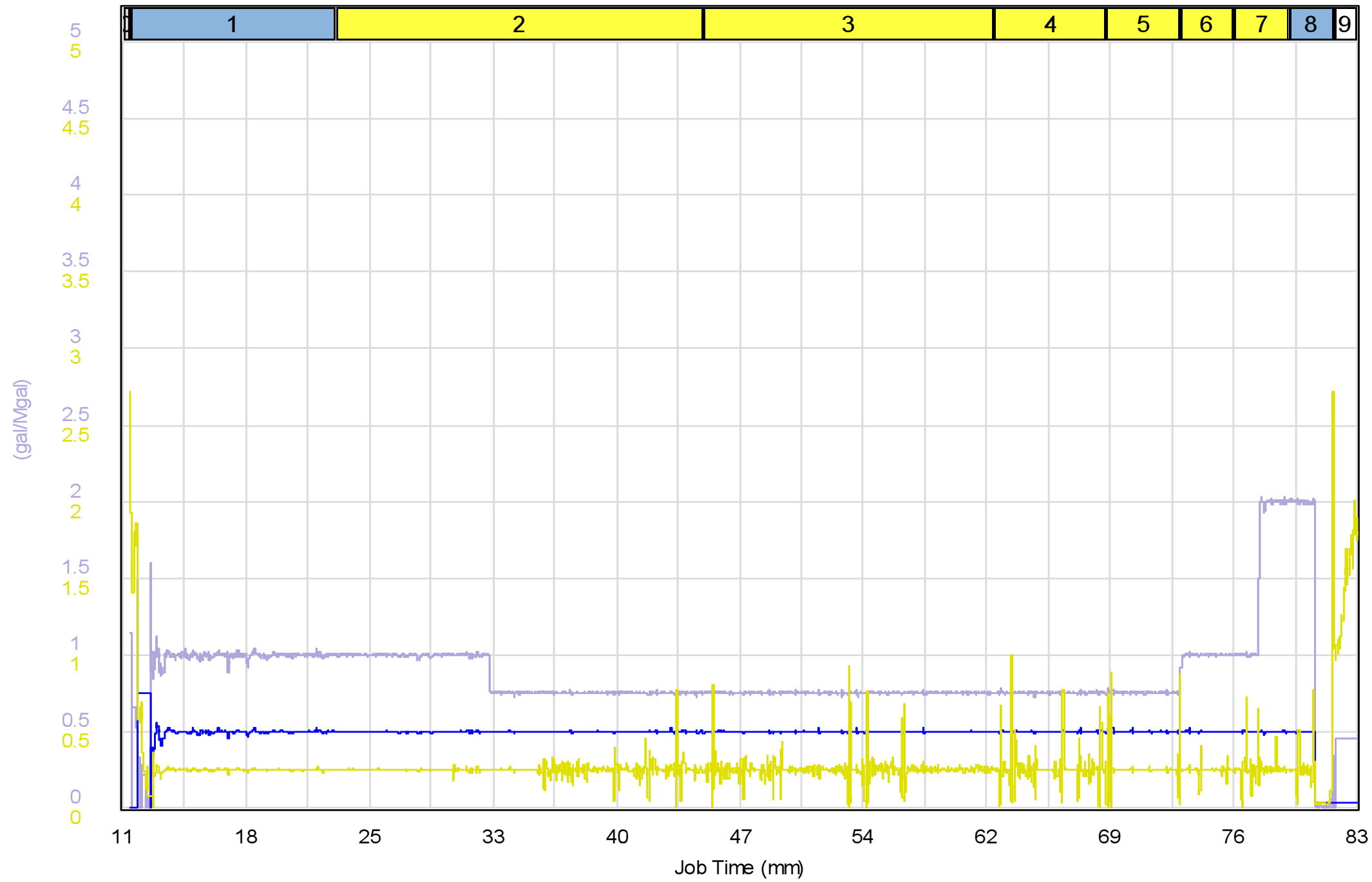
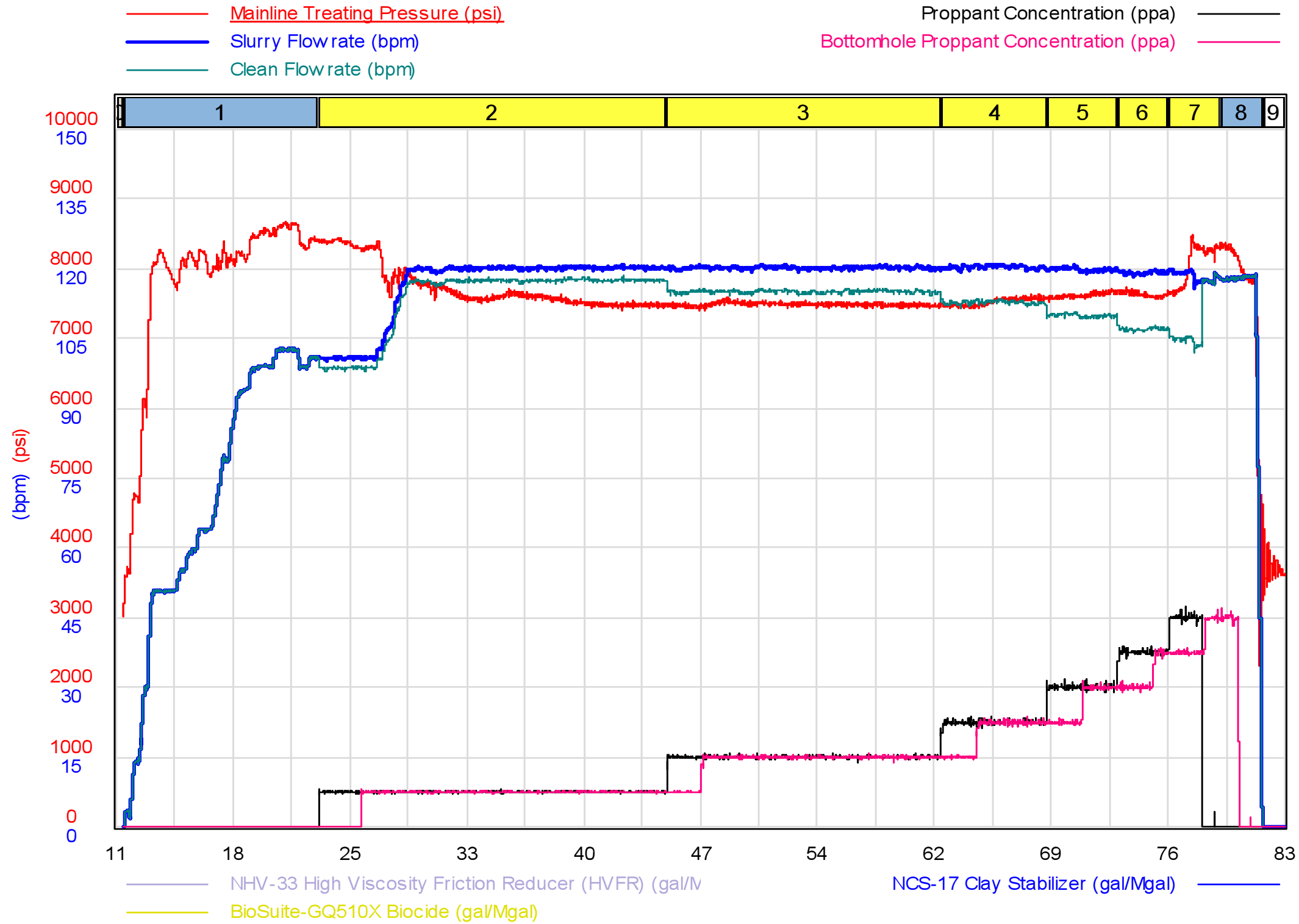
Pumped as directed by customer representative.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	80.8	1,067		0.00	0
2	Slurry	116.7	2,433	40/70 Mesh	0.50	43,300
3	Slurry	120.2	1,932	40/70 Mesh	1.00	68,939
4	Slurry	120.5	730	40/70 Mesh	1.50	38,990
5	Slurry	120.7	489	40/70 Mesh	2.00	34,820
6	Slurry	120.2	338	40/70 Mesh	2.50	30,195
7	Slurry	119.1	619	40/70 Mesh	3.00	64,083
8	Flush	106.7	286		0.00	152
9	Shut In	0.0	0		0.00	0
Totals			7,895			280,480

Top Perforation	11,448 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	11,585 (ft)	Clean Vol.	7,895 (bbls)
Clusters	8	40/70 Mesh	280,480 (lbs)
Total Perforations	32	Total Proppant	280,480 (lbs)
Avg. Rate	119.4 (bpm)		
Avg. Pressure	7,321 (psi)		
Max Rate	121.3 (bpm)		
Max Pressure	8,165 (psi)		
No NPT. Stage pumped by design. All proppant placed.			

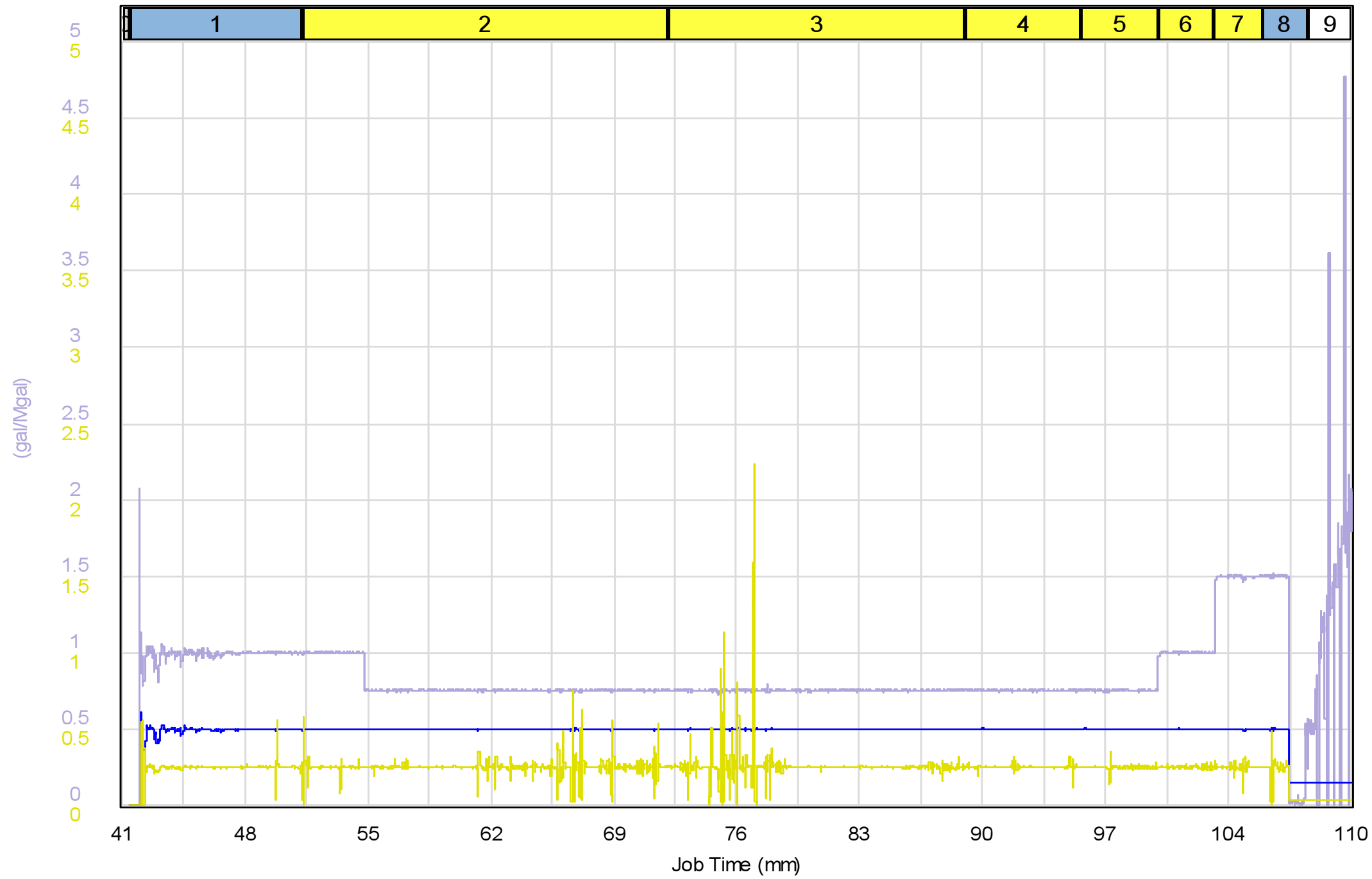
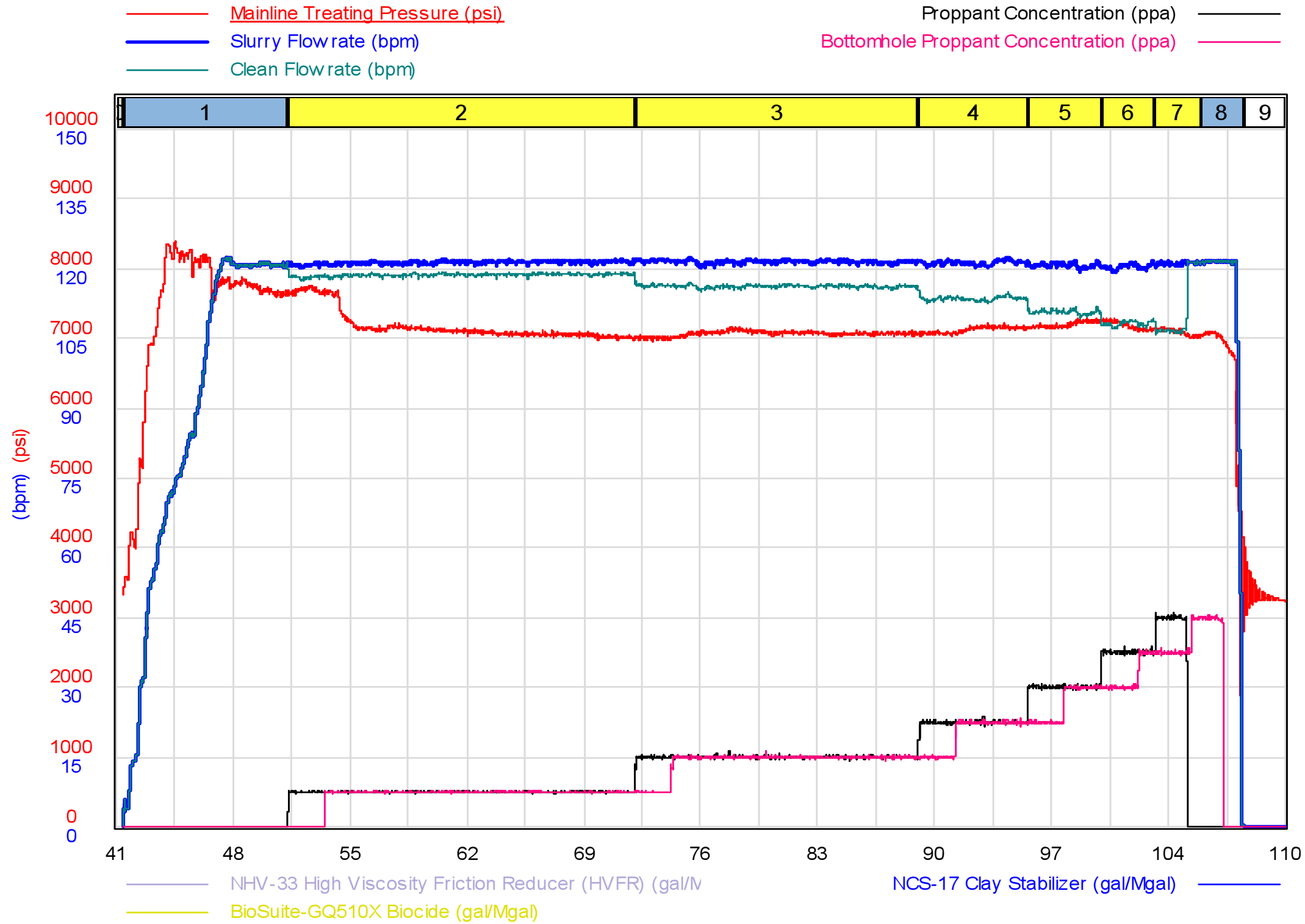


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	71.4	857		0.00	0
2	Slurry	116.0	2,443	40/70 Mesh	0.50	50,580
3	Slurry	120.3	1,955	40/70 Mesh	1.00	81,060
4	Slurry	120.4	739	40/70 Mesh	1.50	45,884
5	Slurry	119.9	484	40/70 Mesh	2.00	40,133
6	Slurry	119.2	337	40/70 Mesh	2.50	34,940
7	Slurry	118.4	347	40/70 Mesh	3.00	27,403
8	Flush	108.9	288		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,449			280,000

Top Perforation	11,273 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	11,410 (ft)	Clean Vol.	7,449 (bbls)
Clusters	8	40/70 Mesh	280,000 (lbs)
Total Perforations	32	Total Proppant	280,000 (lbs)
Avg. Rate	119.3 (bpm)		
Avg. Pressure	7,620 (psi)		
Max Rate	121.1 (bpm)		
Max Pressure	8,501 (psi)		

No NPT. Stage pumped by design. All proppant placed.

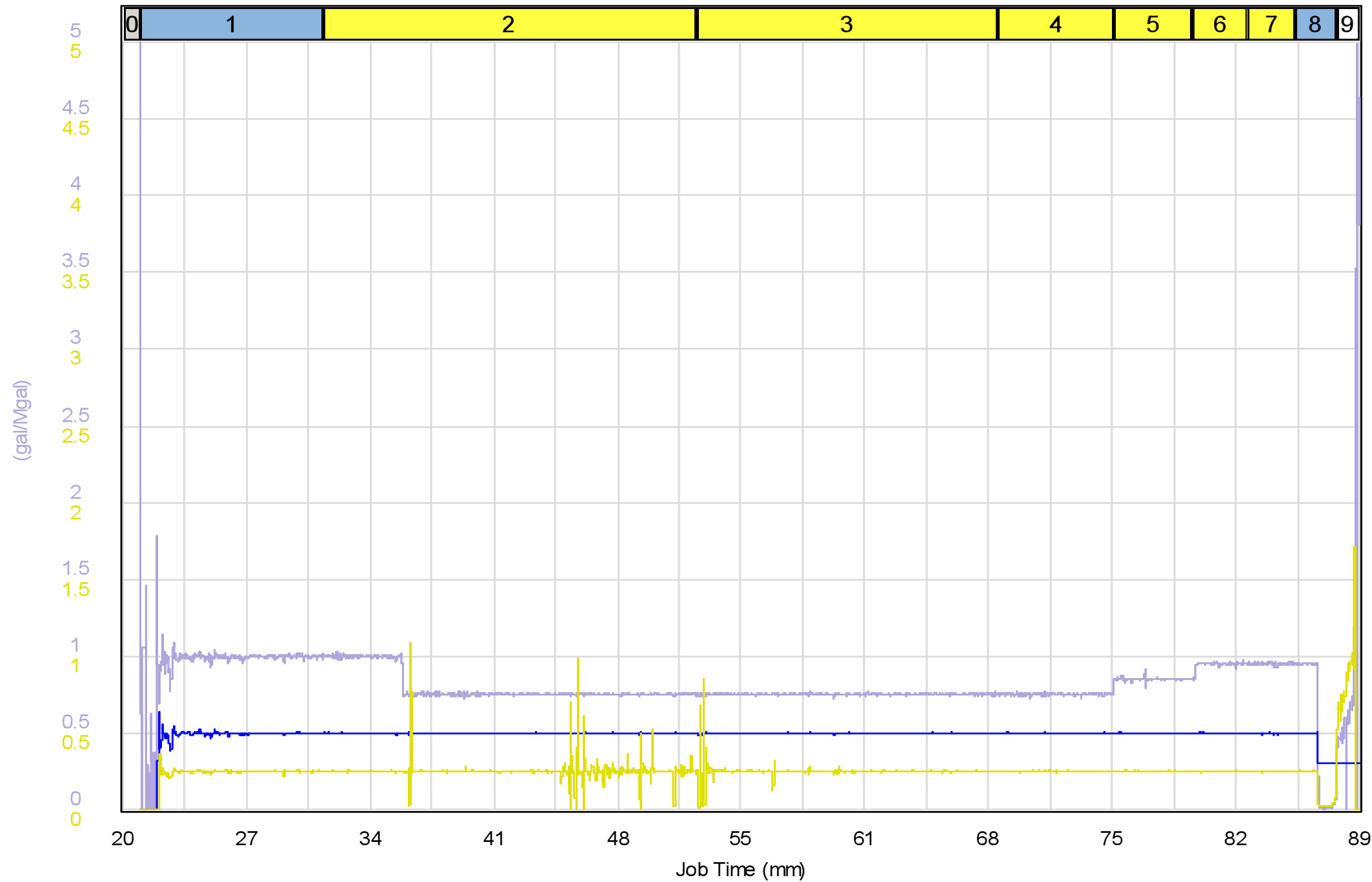
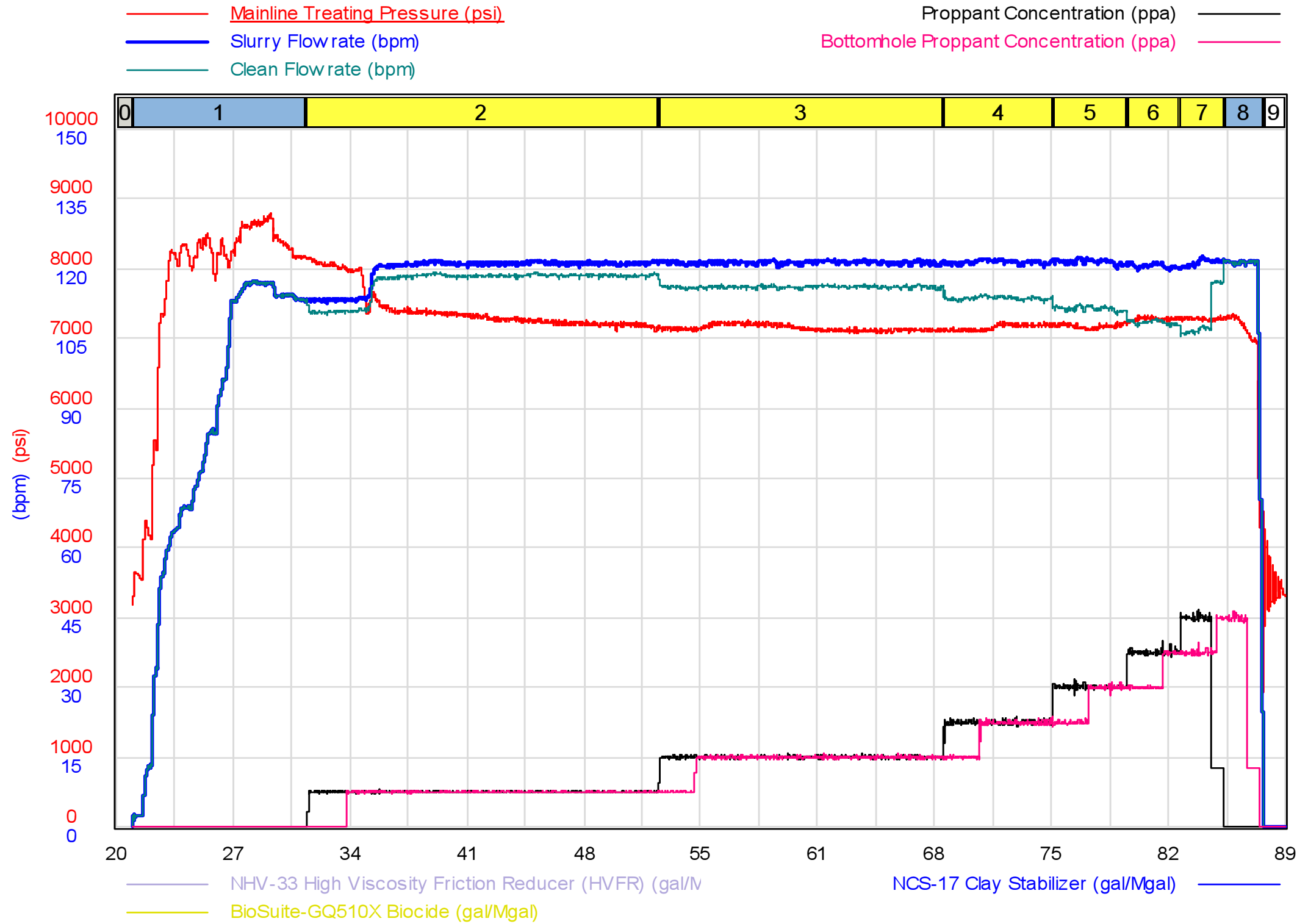


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	88.3	857		0.00	0
2	Slurry	121.3	2,440	40/70 Mesh	0.50	50,848
3	Slurry	121.5	1,953	40/70 Mesh	1.00	81,593
4	Slurry	121.3	733	40/70 Mesh	1.50	45,869
5	Slurry	120.8	487	40/70 Mesh	2.00	40,718
6	Slurry	120.5	339	40/70 Mesh	2.50	35,425
7	Slurry	121.2	301	40/70 Mesh	3.00	25,607
8	Flush	111.7	283		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,395			280,060

Top Perforation	11,098 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	11,235 (ft)	Clean Vol.	7,395 (bbls)
Clusters	8	40/70 Mesh	280,060 (lbs)
Total Perforations	32	Total Proppant	280,060 (lbs)
Avg. Rate	121.3 (bpm)		
Avg. Pressure	7,116 (psi)		
Max Rate	122.5 (bpm)		
Max Pressure	7,709 (psi)		

No NPT. Stage pumped by design. All proppant placed.

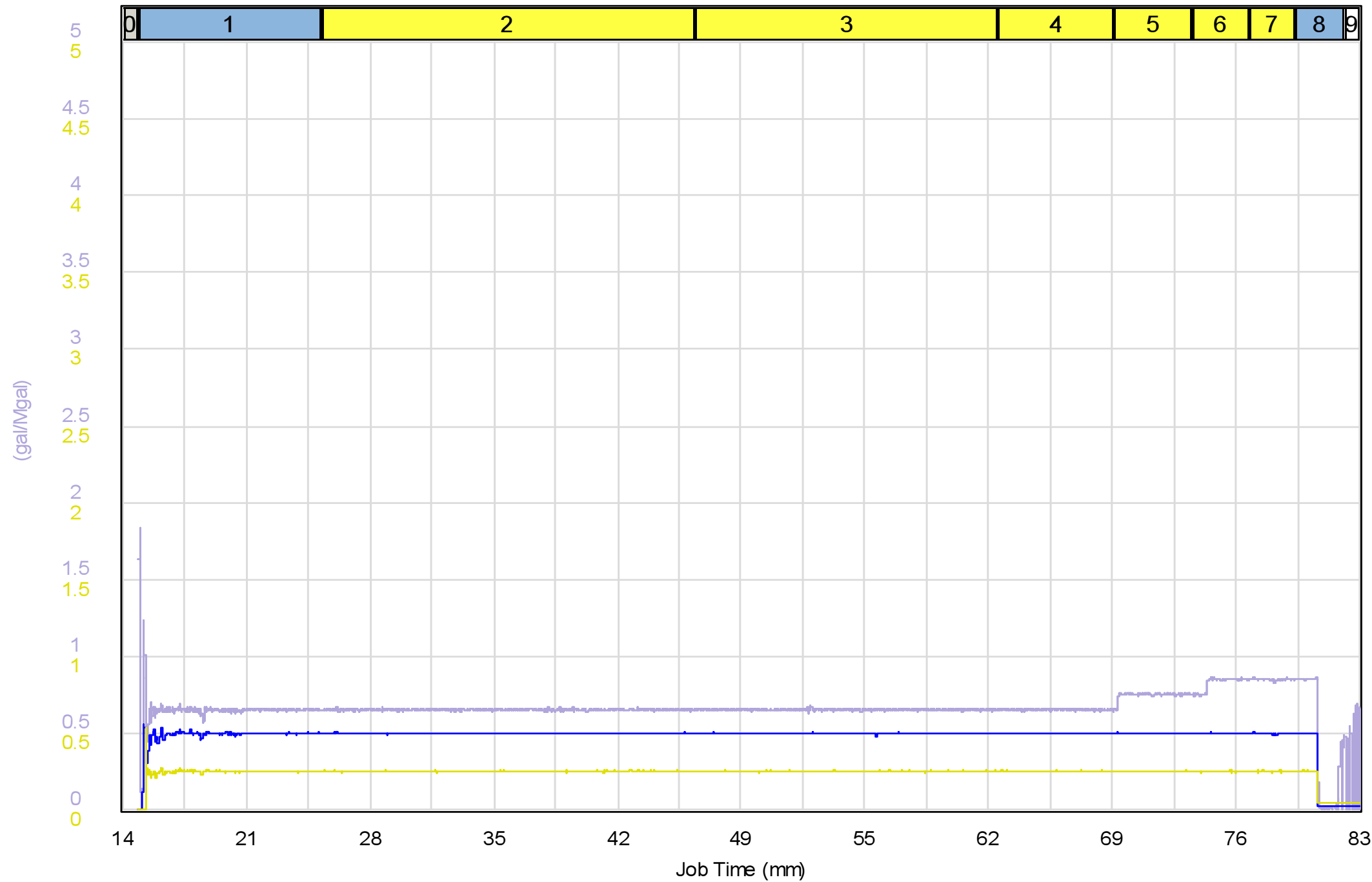
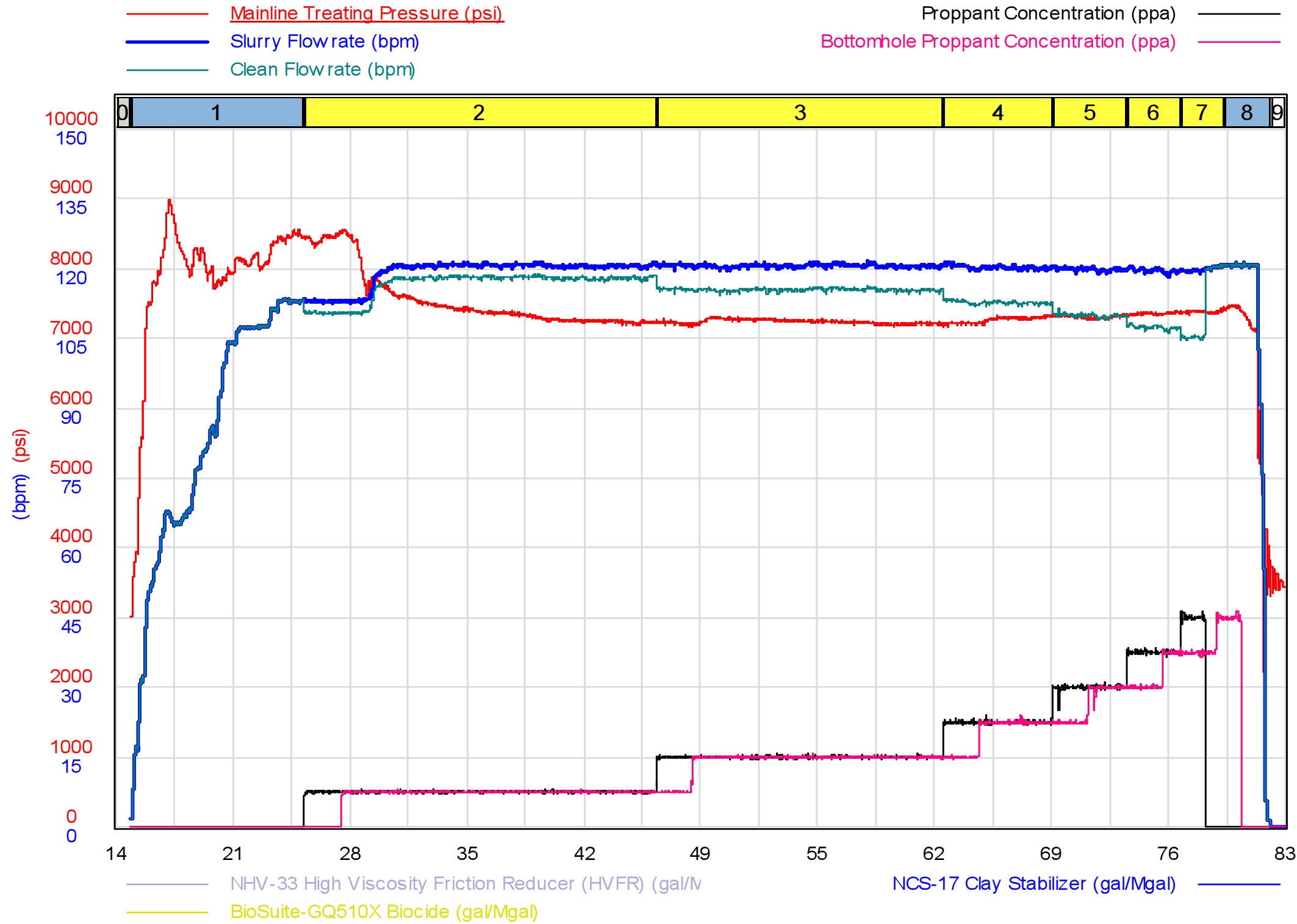


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	82.8	853		0.00	0
2	Slurry	119.7	2,443	40/70 Mesh	0.50	50,323
3	Slurry	121.4	1,948	40/70 Mesh	1.00	80,627
4	Slurry	121.4	735	40/70 Mesh	1.50	45,544
5	Slurry	121.5	490	40/70 Mesh	2.00	40,511
6	Slurry	120.7	338	40/70 Mesh	2.50	34,908
7	Slurry	121.3	283	40/70 Mesh	3.00	28,018
8	Flush	111.9	272		0.00	68
9		0.0	0		0.00	0
Totals			7,363			280,000

Top Perforation	10,924 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	11,060 (ft)	Clean Vol.	7,363 (bbls)
Clusters	8	40/70 Mesh	280,000 (lbs)
Total Perforations	32	Total Proppant	280,000 (lbs)
Avg. Rate	121.0 (bpm)		
Avg. Pressure	7,236 (psi)		
Max Rate	122.7 (bpm)		
Max Pressure	8,049 (psi)		

Pumped as directed by customer representative.

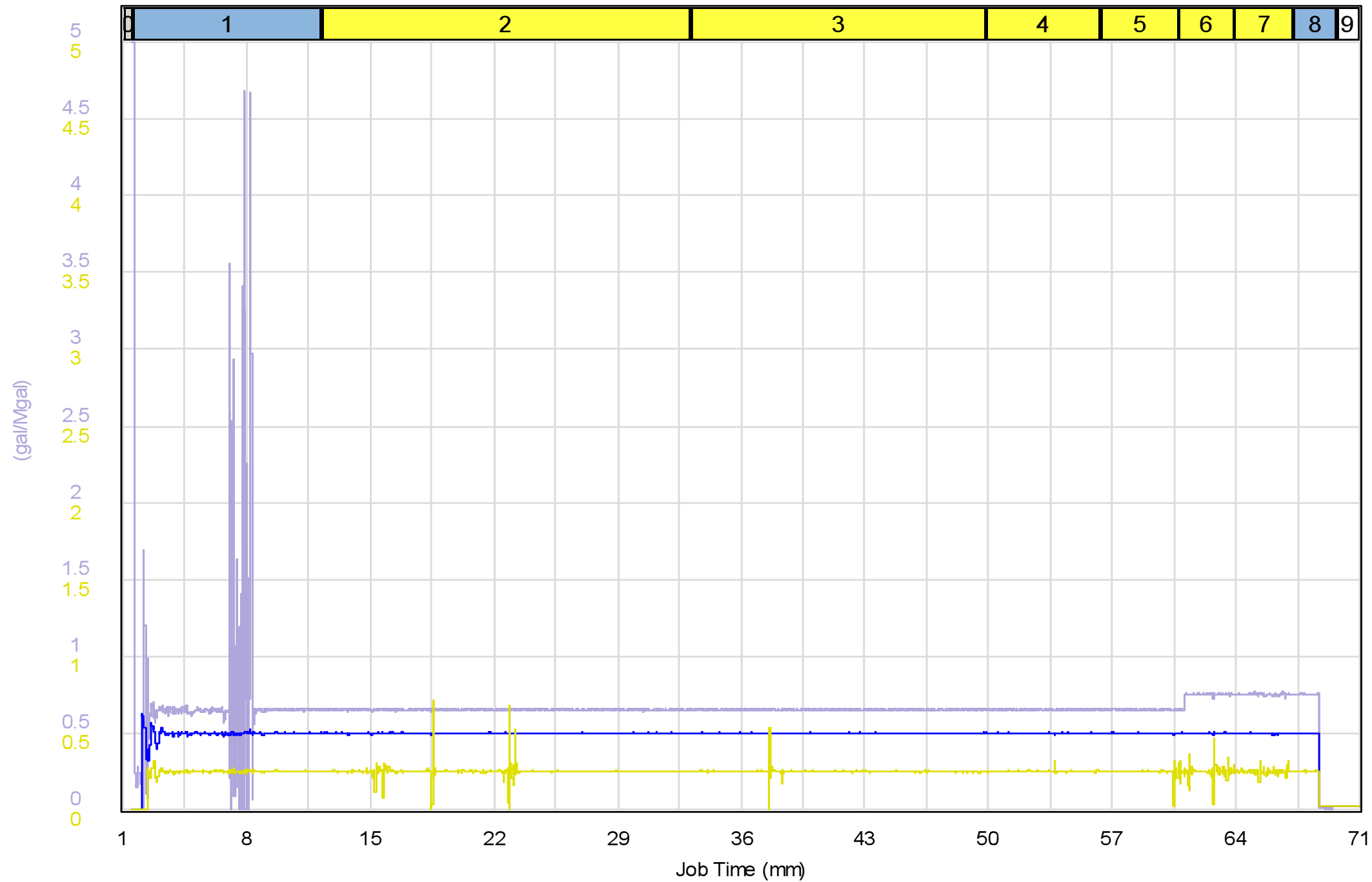
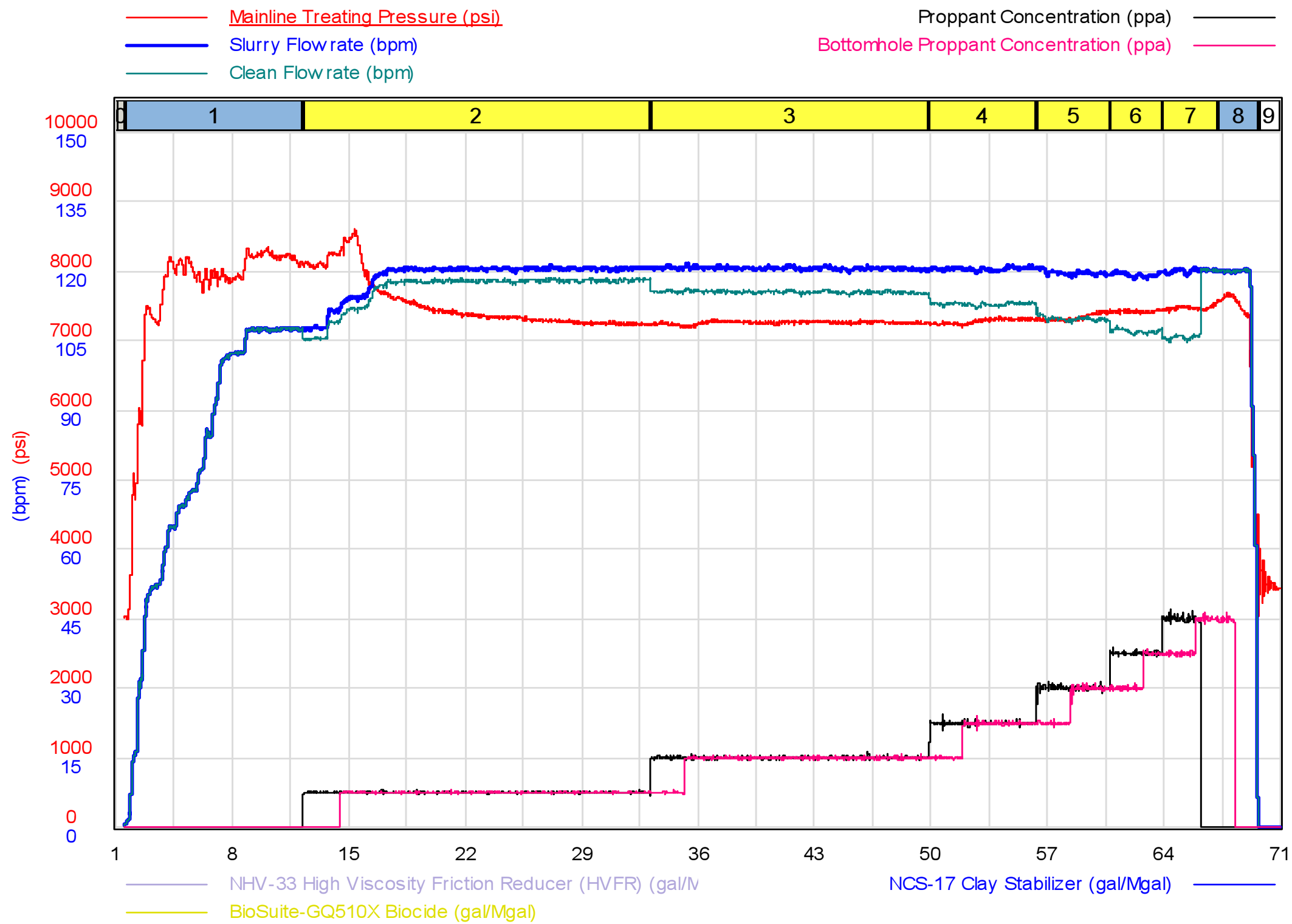


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	84.2	857		0.00	0
2	Slurry	119.2	2,435	40/70 Mesh	0.50	51,830
3	Slurry	120.7	1,963	40/70 Mesh	1.00	83,607
4	Slurry	120.4	731	40/70 Mesh	1.50	46,747
5	Slurry	119.9	486	40/70 Mesh	2.00	41,321
6	Slurry	119.6	338	40/70 Mesh	2.50	36,089
7	Slurry	119.9	290	40/70 Mesh	3.00	20,845
8	Flush	99.1	280		0.00	0
9		0.0	0		0.00	0
Totals			7,380			280,440

Top Perforation	10,749 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	10,886 (ft)	Clean Vol.	7,380 (bbls)
Clusters	8	40/70 Mesh	280,440 (lbs)
Total Perforations	32	Total Proppant	280,440 (lbs)
Avg. Rate	120.2 (bpm)		
Avg. Pressure	7,345 (psi)		
Max Rate	121.5 (bpm)		
Max Pressure	8,570 (psi)		

Pumped as directed by customer representative.

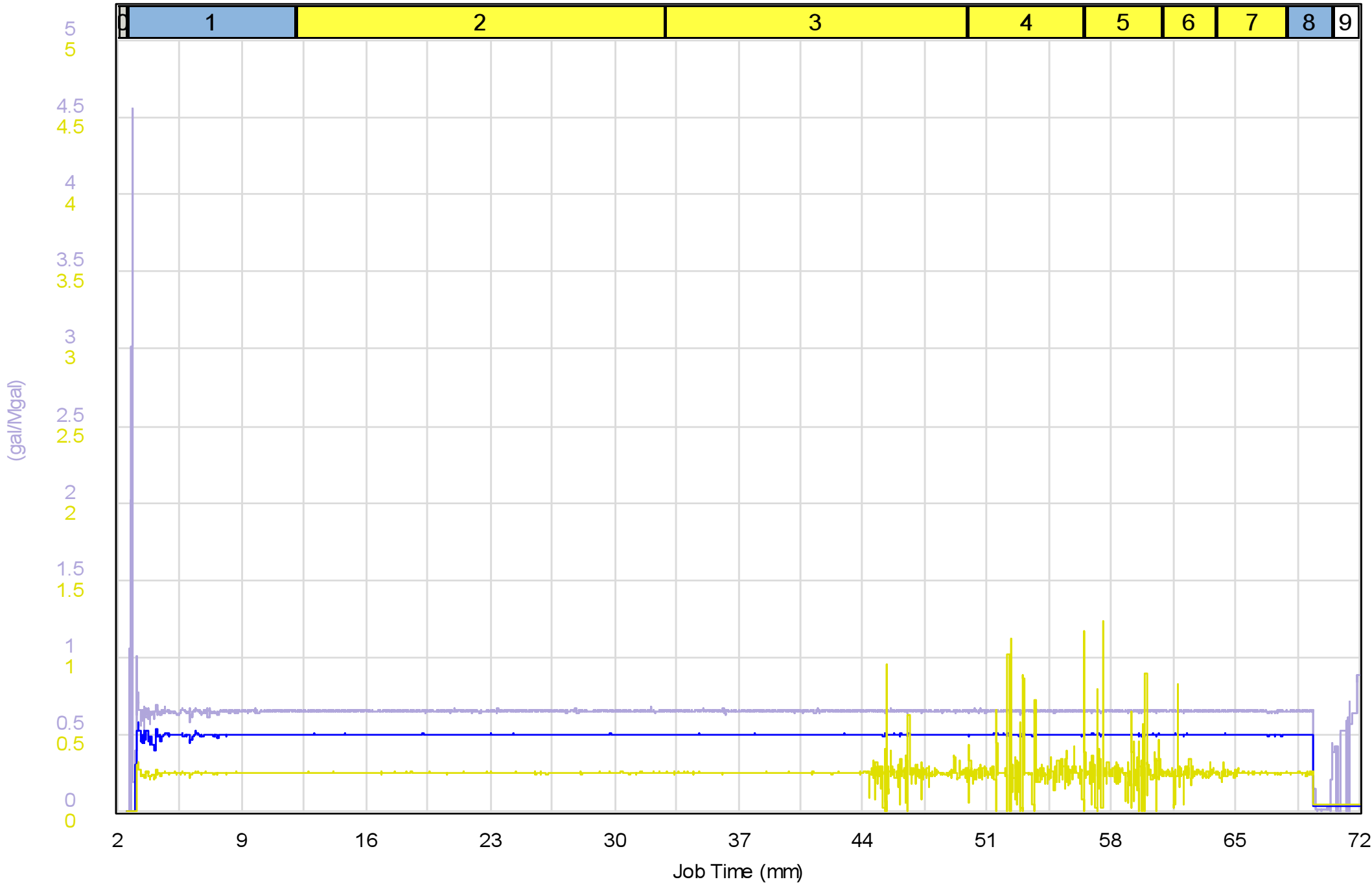
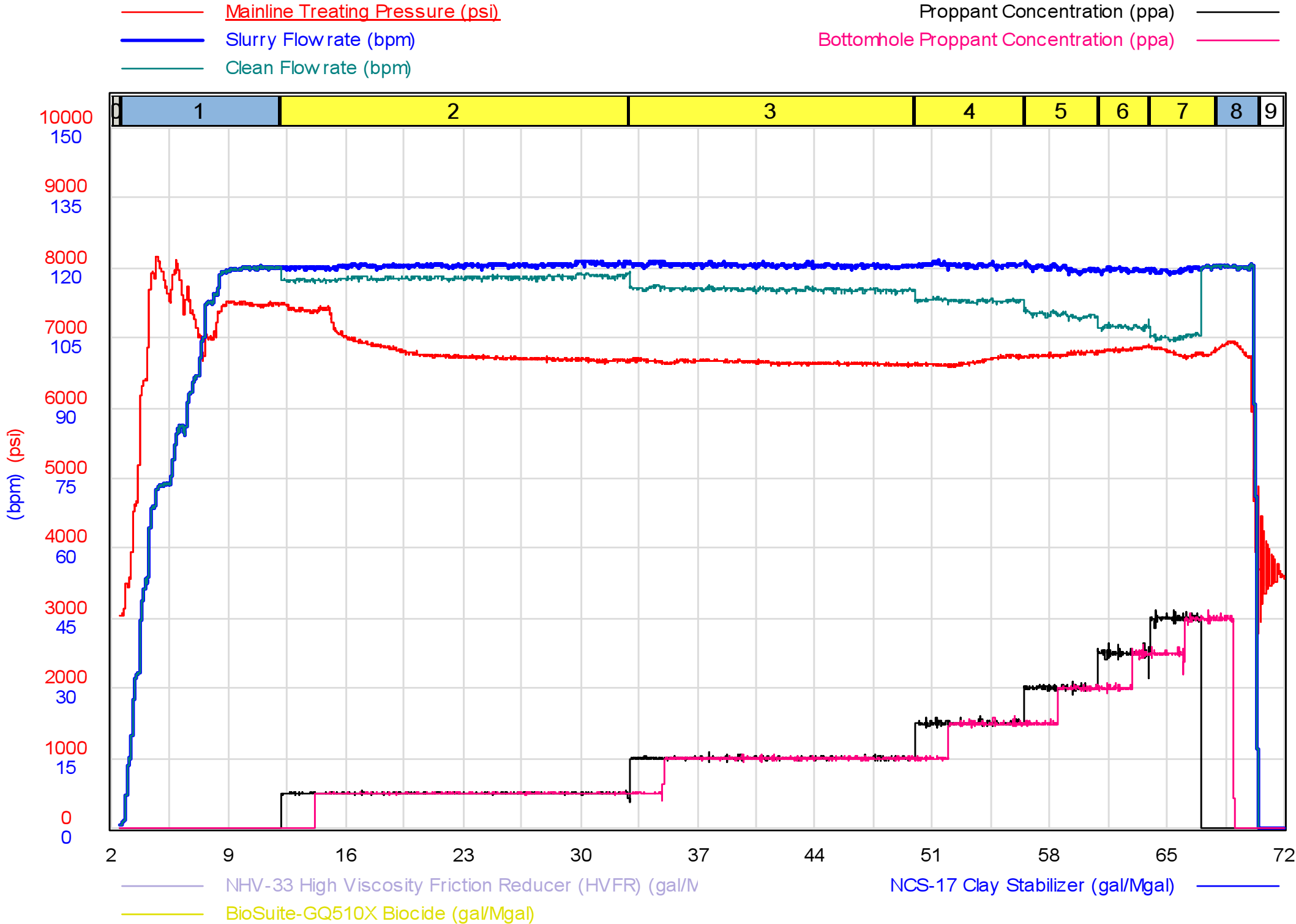


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	80.4	858		0.00	0
2	Slurry	118.7	2,446	40/70 Mesh	0.50	50,022
3	Slurry	120.8	1,954	40/70 Mesh	1.00	80,068
4	Slurry	120.6	732	40/70 Mesh	1.50	45,032
5	Slurry	119.7	487	40/70 Mesh	2.00	39,915
6	Slurry	119.3	336	40/70 Mesh	2.50	34,426
7	Slurry	120.2	368	40/70 Mesh	3.00	30,997
8	Flush	109.4	277		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,459			280,460

Top Perforation	10,574 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	10,711 (ft)	Clean Vol.	7,459 (bbls)
Clusters	8	40/70 Mesh	280,460 (lbs)
Total Perforations	32	Total Proppant	280,460 (lbs)
Avg. Rate	120.2 (bpm)		
Avg. Pressure	7,372 (psi)		
Max Rate	121.6 (bpm)		
Max Pressure	8,600 (psi)		

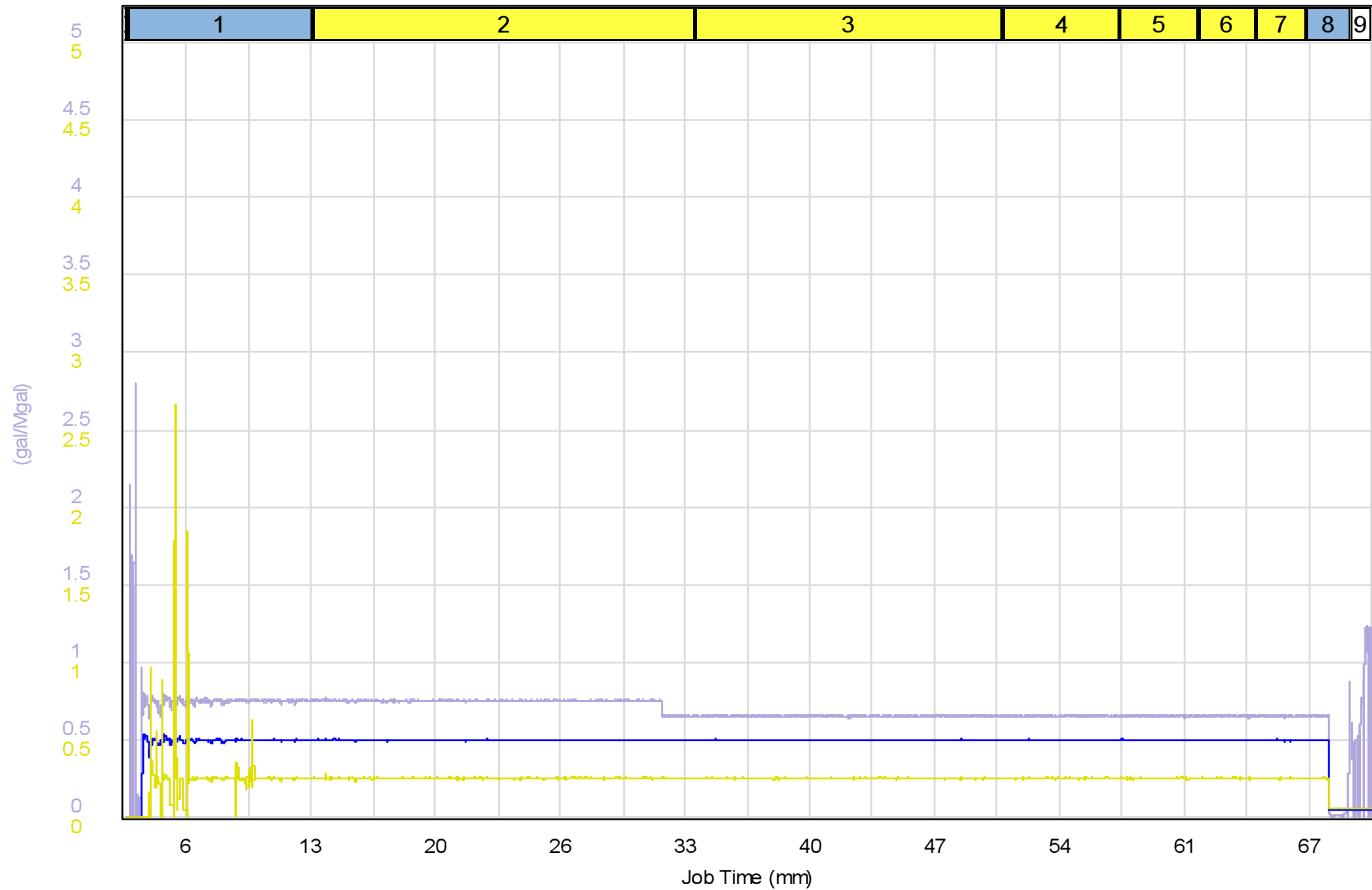
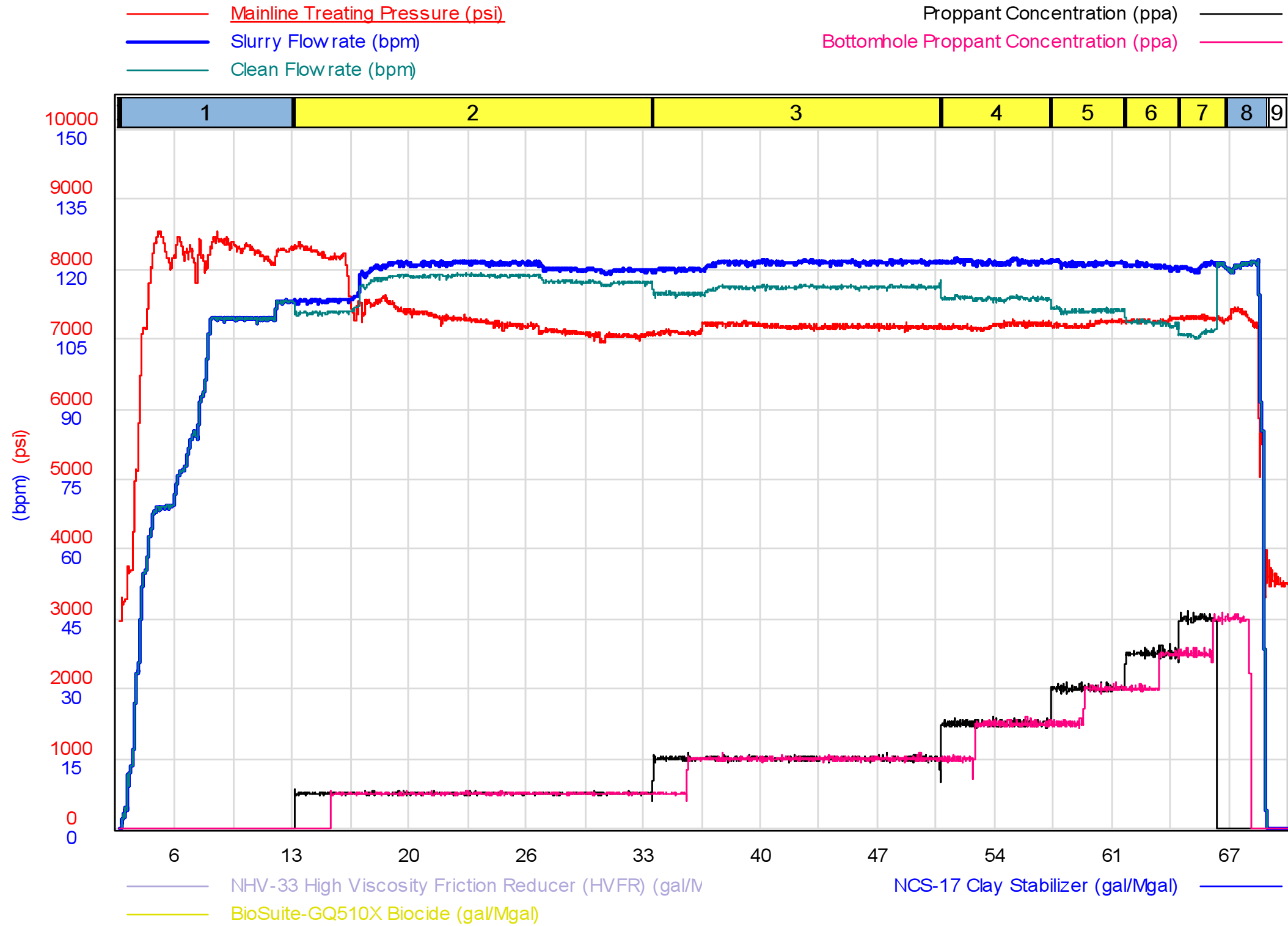
No NPT. Stage pumped by design. All proppant placed.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	90.3	854		0.00	0
2	Slurry	120.6	2,443	40/70 Mesh	0.50	48,671
3	Slurry	120.7	1,957	40/70 Mesh	1.00	78,103
4	Slurry	120.7	733	40/70 Mesh	1.50	43,870
5	Slurry	119.9	484	40/70 Mesh	2.00	38,664
6	Slurry	119.6	333	40/70 Mesh	2.50	33,192
7	Slurry	119.6	430	40/70 Mesh	3.00	37,901
8	Flush	110.9	287		0.00	0
9		0.0	0		0.00	0
Totals			7,520			280,400

Top Perforation	10,399 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	10,536 (ft)	Clean Vol.	7,520 (bbls)
Clusters	8	40/70 Mesh	280,400 (lbs)
Total Perforations	32	Total Proppant	280,400 (lbs)
Avg. Rate	120.5 (bpm)		
Avg. Pressure	6,740 (psi)		
Max Rate	121.5 (bpm)		
Max Pressure	7,444 (psi)		
No NPT. Stage pumped by design. All proppant placed.			

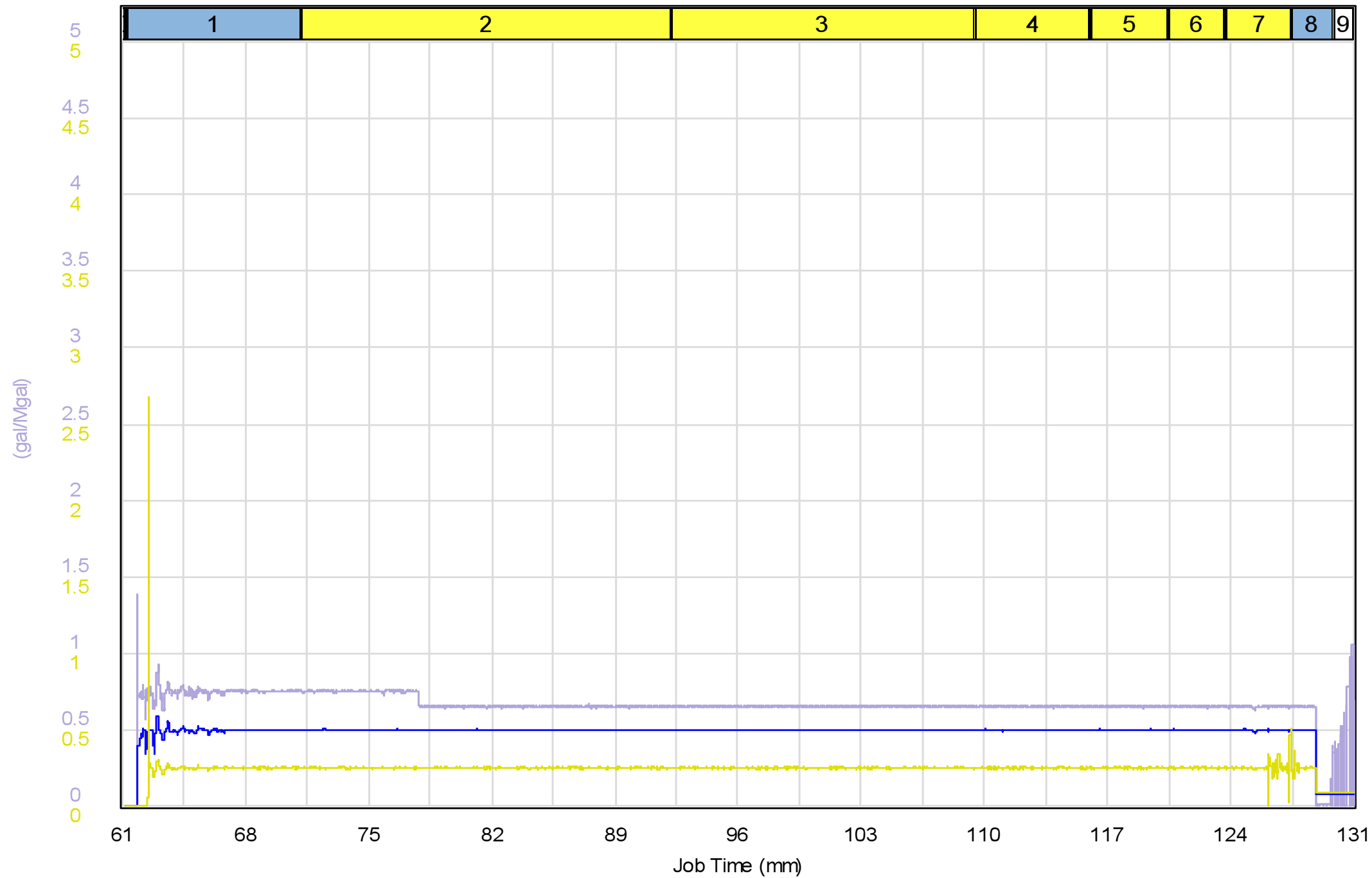
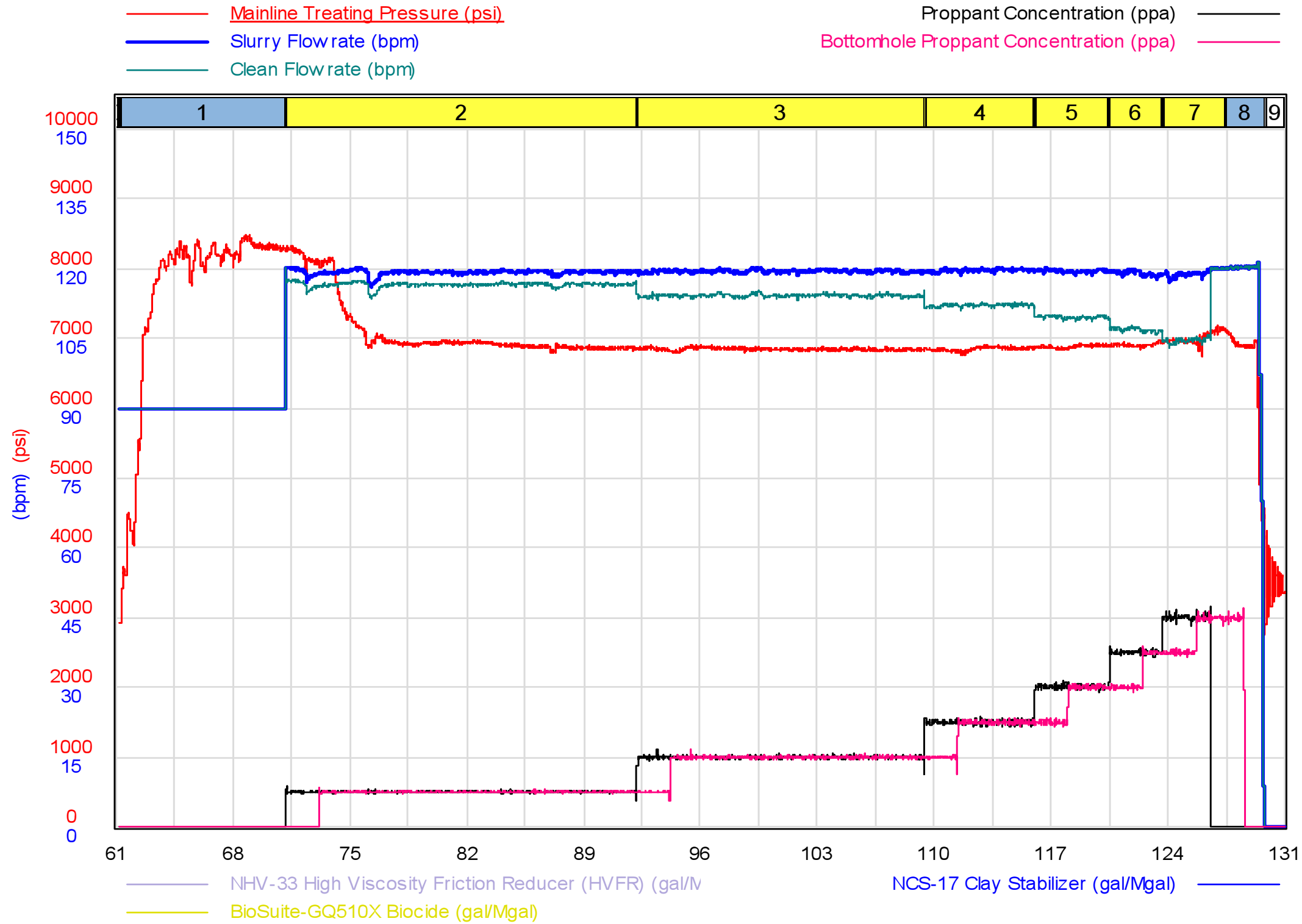


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	85.2	857		0.00	0
2	Slurry	119.3	2,442	40/70 Mesh	0.50	50,493
3	Slurry	121.2	1,947	40/70 Mesh	1.00	80,504
4	Slurry	121.6	728	40/70 Mesh	1.50	45,186
5	Slurry	121.3	487	40/70 Mesh	2.00	40,343
6	Slurry	120.8	336	40/70 Mesh	2.50	34,774
7	Slurry	120.7	300	40/70 Mesh	3.00	29,020
8	Flush	108.0	265		0.00	0
9		0.0	0		0.00	0
Totals			7,364			280,320

Top Perforation	10,225 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	10,362 (ft)	Clean Vol.	7,364 (bbls)
Clusters	8	40/70 Mesh	280,320 (lbs)
Total Perforations	32	Total Proppant	280,320 (lbs)
Avg. Rate	121.0 (bpm)		
Avg. Pressure	7,209 (psi)		
Max Rate	122.3 (bpm)		
Max Pressure	7,641 (psi)		

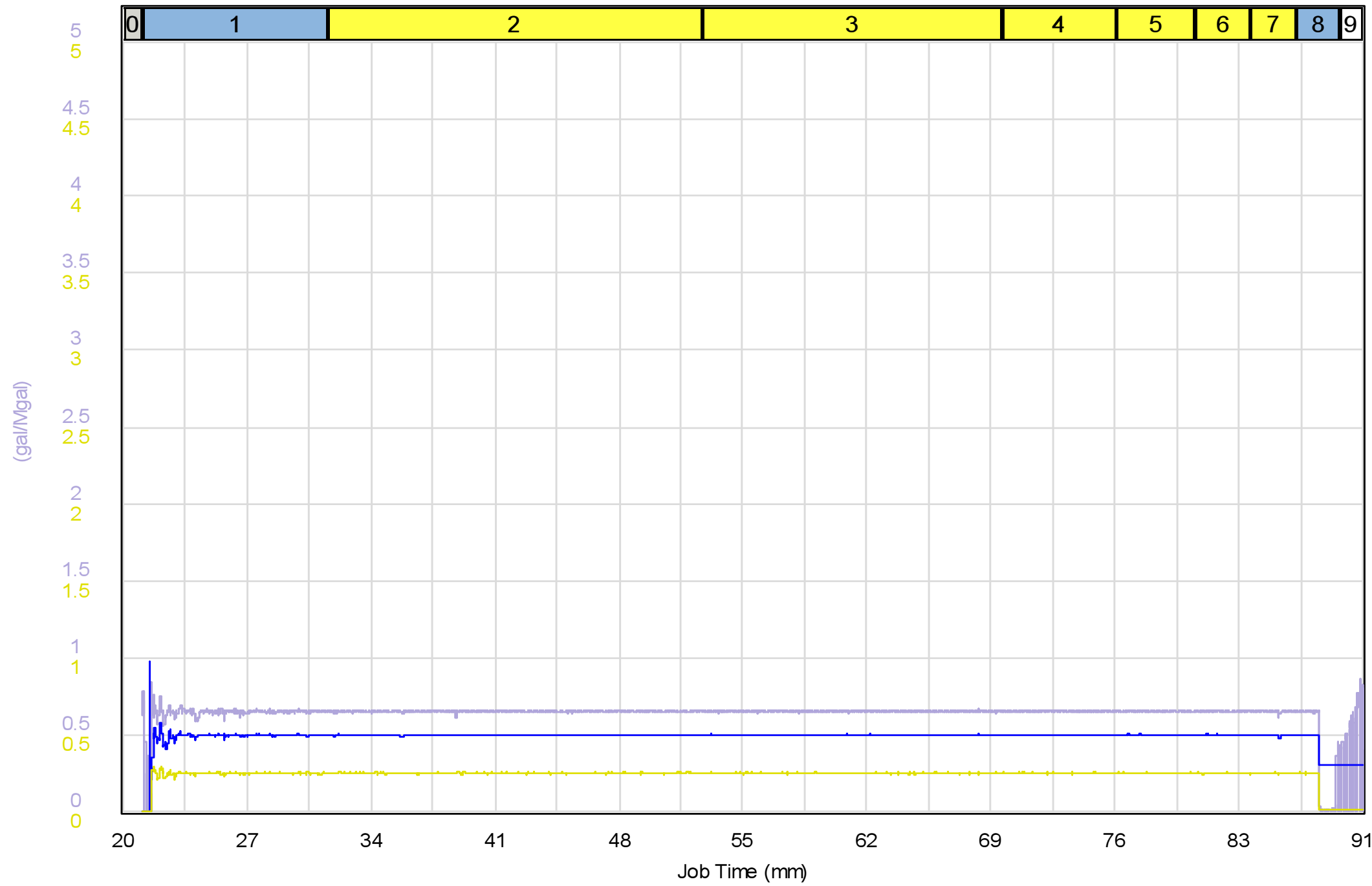
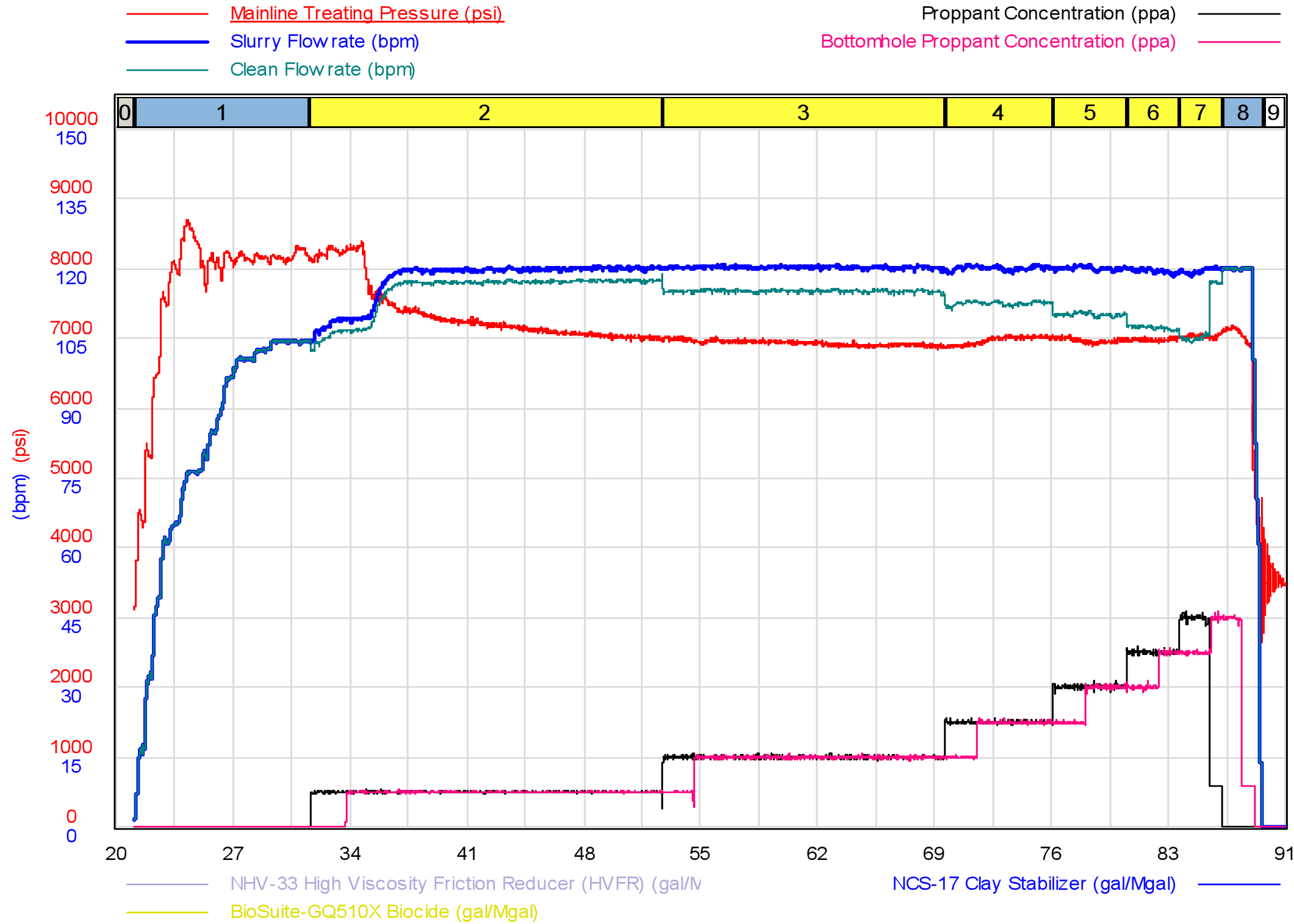
No NPT. Stage pumped by design. All proppant placed.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	90.0	884		0.00	0
2	Slurry	119.3	2,441	40/70 Mesh	0.50	48,636
3	Slurry	119.5	1,959	40/70 Mesh	1.00	78,080
4	Slurry	119.7	736	40/70 Mesh	1.50	43,987
5	Slurry	119.5	486	40/70 Mesh	2.00	38,774
6	Slurry	119.0	340	40/70 Mesh	2.50	33,918
7	Slurry	119.1	413	40/70 Mesh	3.00	36,605
8	Flush	111.4	256		0.00	0
9		0.0	0		0.00	0
Totals			7,516			280,000

Top Perforation	10,050 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	10,187 (ft)	Clean Vol.	7,516 (bbls)
Clusters	8	40/70 Mesh	280,000 (lbs)
Total Perforations	32	Total Proppant	280,000 (lbs)
Avg. Rate	119.4 (bpm)		
Avg. Pressure	6,925 (psi)		
Max Rate	120.5 (bpm)		
Max Pressure	8,153 (psi)		
No NPT. Stage pumped by design. All proppant placed.			

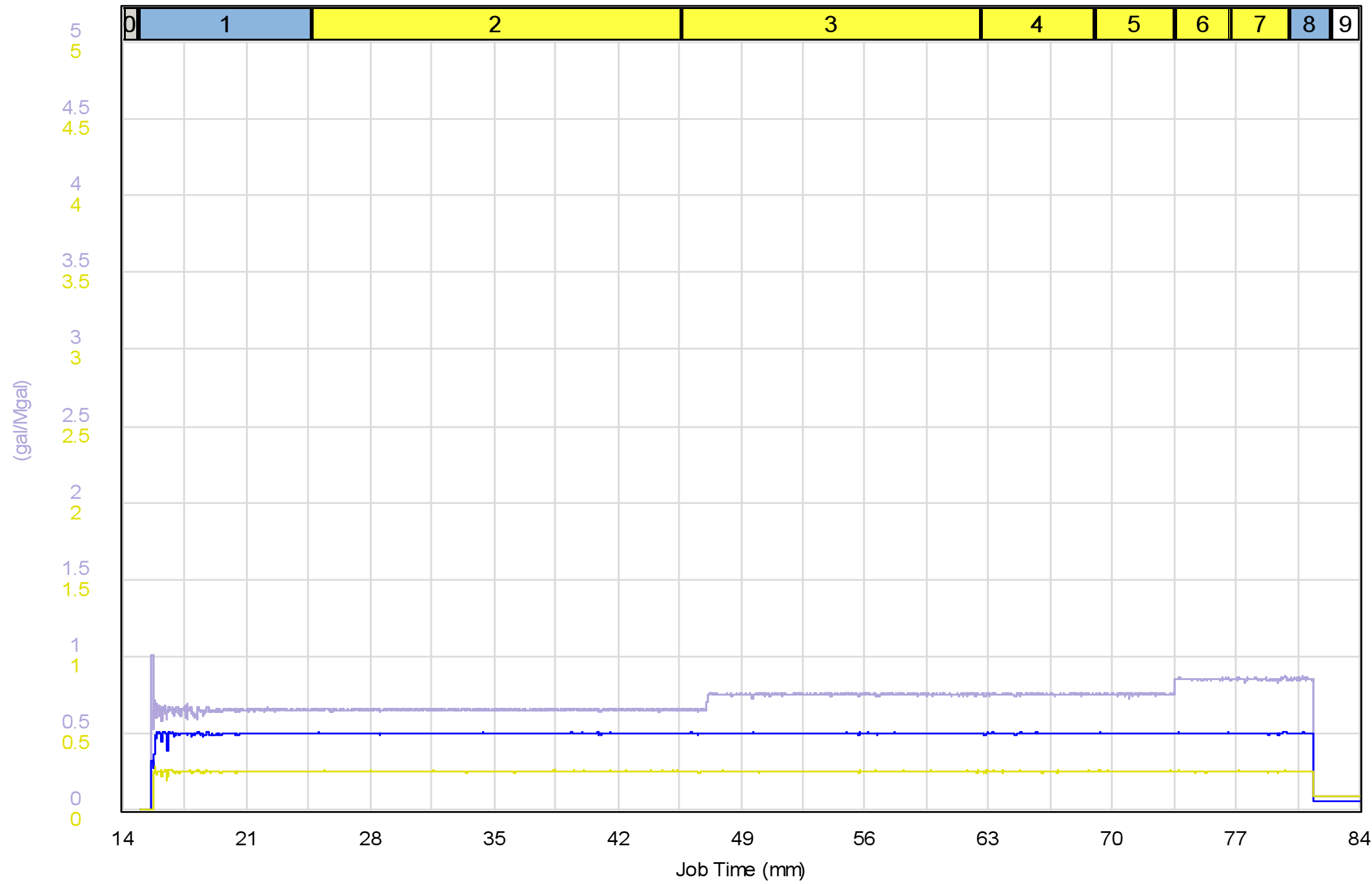
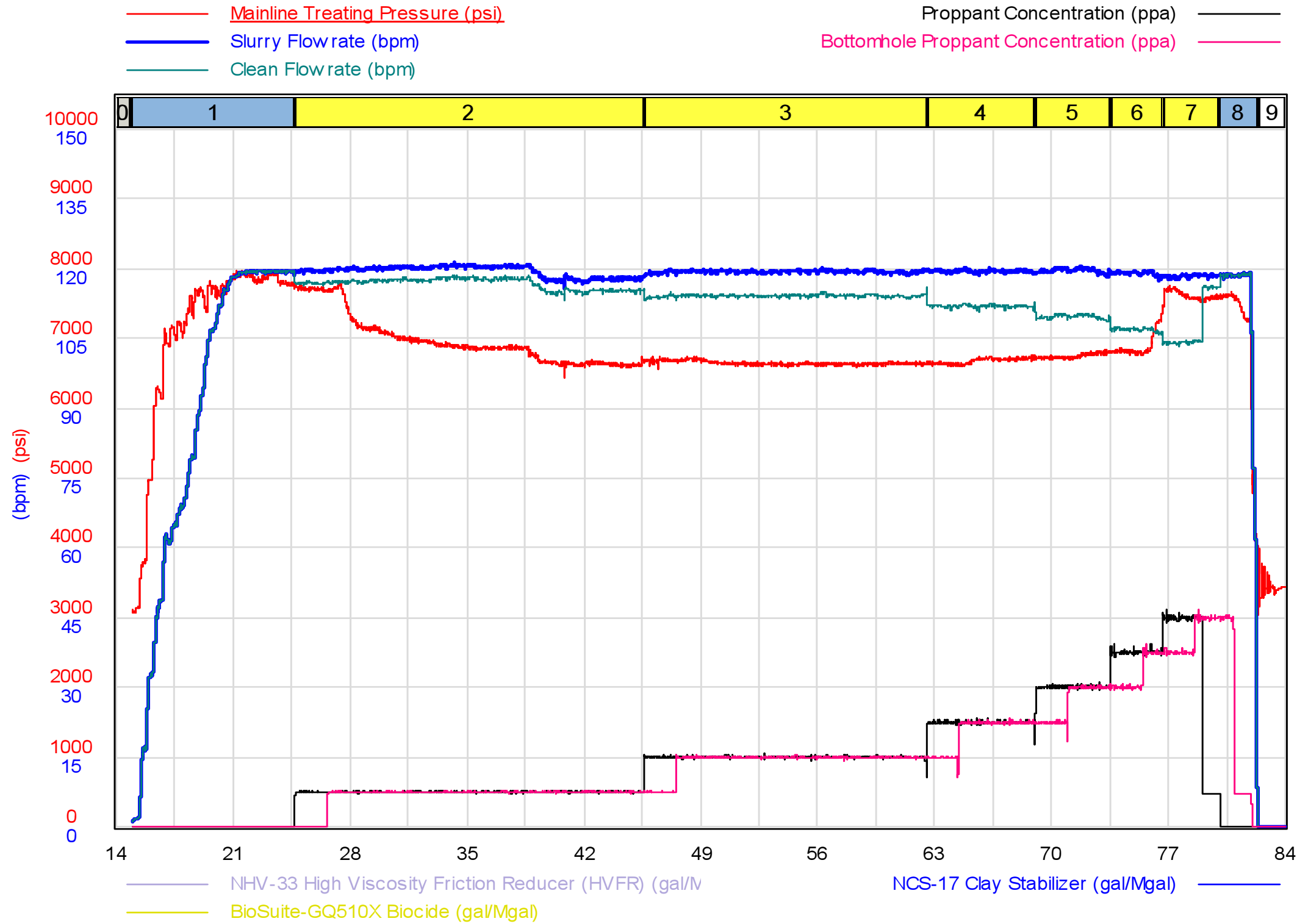


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	81.0	855		0.00	0
2	Slurry	117.6	2,441	40/70 Mesh	0.50	50,655
3	Slurry	120.4	1,960	40/70 Mesh	1.00	81,540
4	Slurry	120.2	732	40/70 Mesh	1.50	45,664
5	Slurry	120.2	489	40/70 Mesh	2.00	40,646
6	Slurry	119.5	340	40/70 Mesh	2.50	35,395
7	Slurry	119.6	283	40/70 Mesh	3.00	26,093
8	Flush	103.7	256		0.00	47
9		0.0	0		0.00	0
Totals			7,354			280,040

Top Perforation	9,875 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	10,012 (ft)	Clean Vol.	7,354 (bbls)
Clusters	8	40/70 Mesh	280,040 (lbs)
Total Perforations	32	Total Proppant	280,040 (lbs)
Avg. Rate	119.6 (bpm)		
Avg. Pressure	7,069 (psi)		
Max Rate	121.1 (bpm)		
Max Pressure	8,389 (psi)		

Pumped as directed by customer representative.

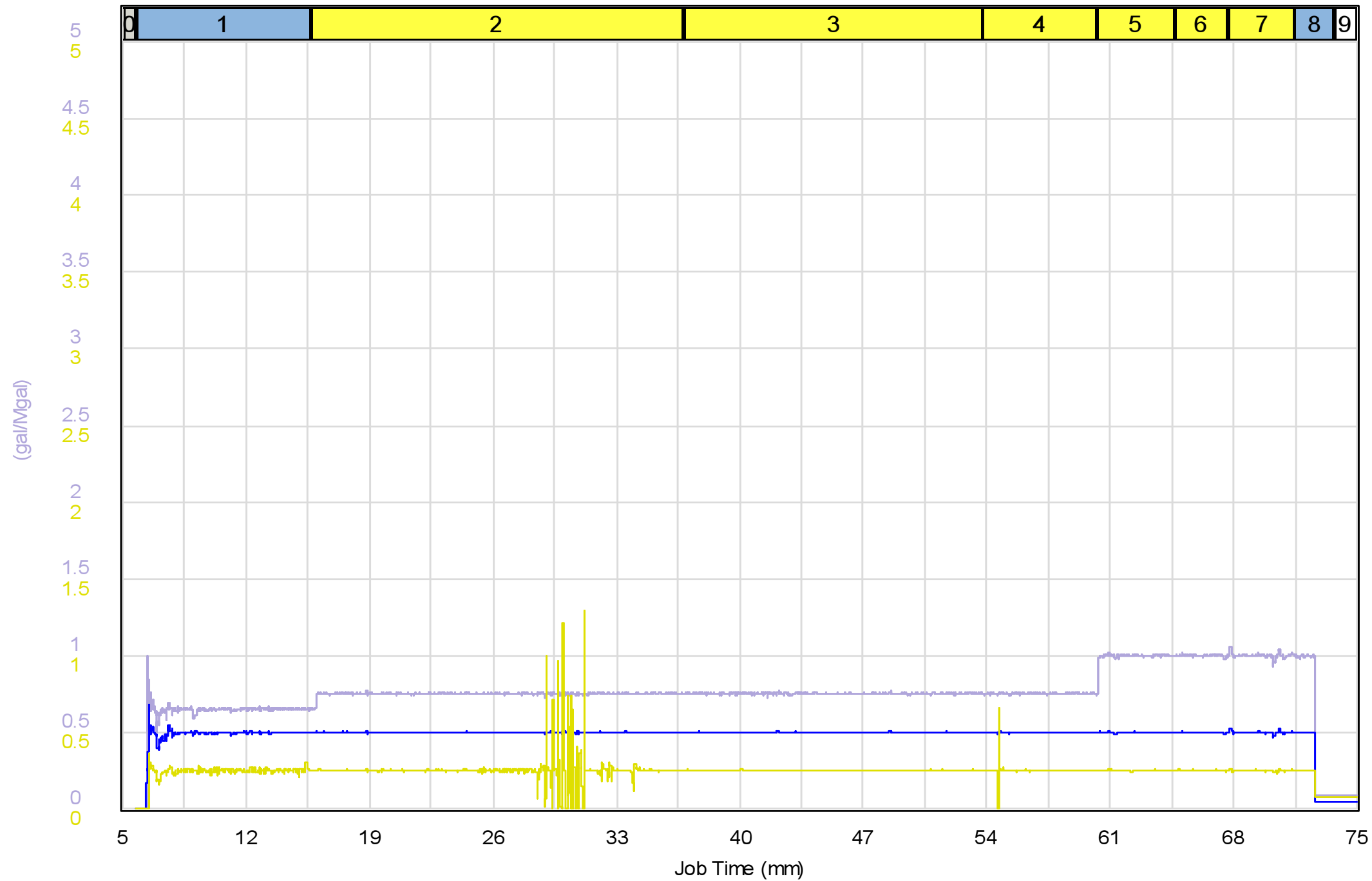
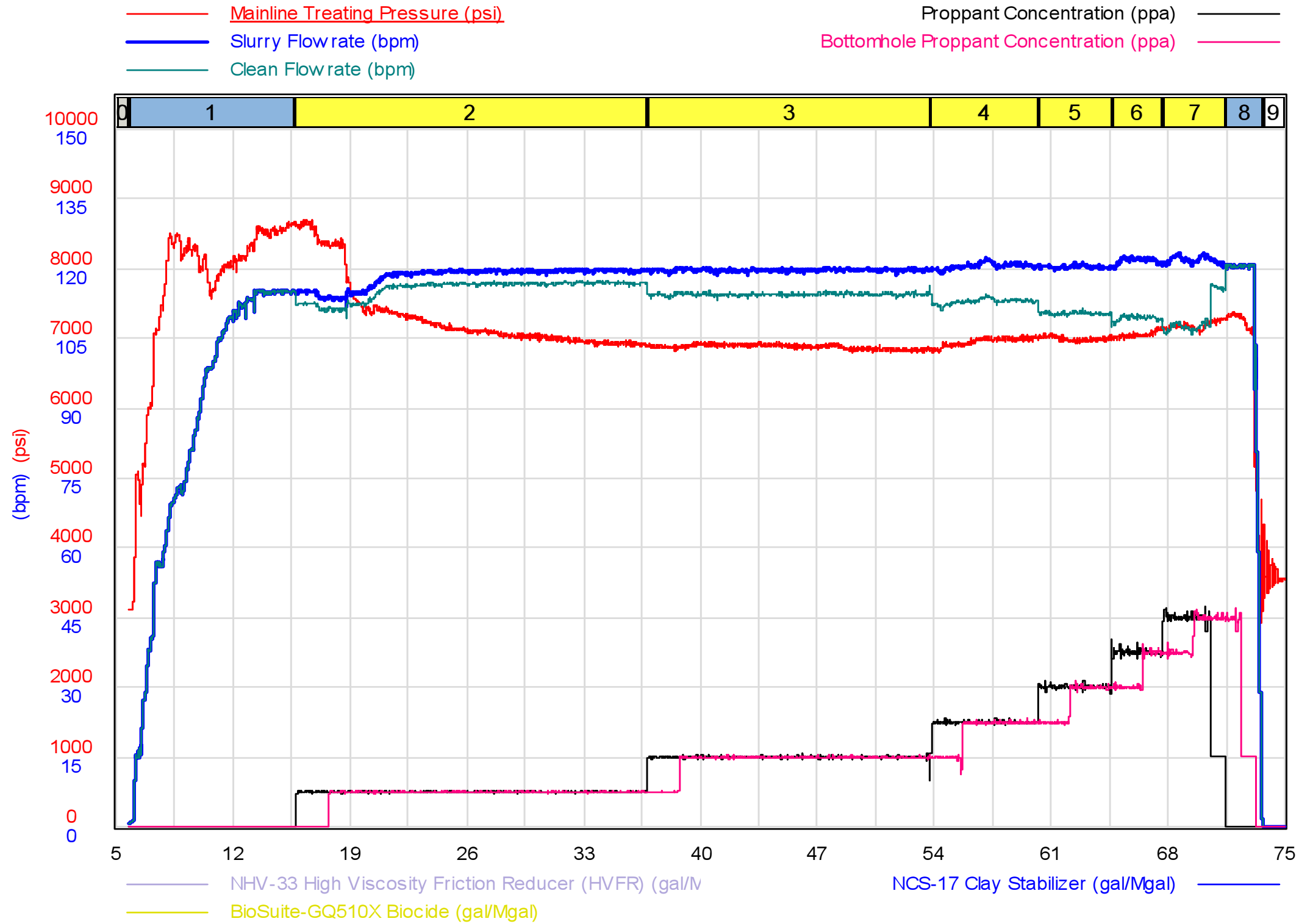


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	87.6	853		0.00	0
2	Slurry	119.5	2,444	40/70 Mesh	0.50	49,750
3	Slurry	119.4	1,942	40/70 Mesh	1.00	79,096
4	Slurry	119.5	729	40/70 Mesh	1.50	44,514
5	Slurry	119.7	488	40/70 Mesh	2.00	39,774
6	Slurry	119.0	340	40/70 Mesh	2.50	34,683
7	Slurry	118.4	367	40/70 Mesh	3.00	32,287
8	Flush	106.7	251		0.00	37
9		0.0	0		0.00	0
Totals			7,416			280,140

Top Perforation	9,701 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	9,837 (ft)	Clean Vol.	7,416 (bbls)
Clusters	8	40/70 Mesh	280,140 (lbs)
Total Perforations	32	Total Proppant	280,140 (lbs)
Avg. Rate	119.4 (bpm)		
Avg. Pressure	6,838 (psi)		
Max Rate	121.2 (bpm)		
Max Pressure	7,823 (psi)		

Pumped as directed by customer representative.

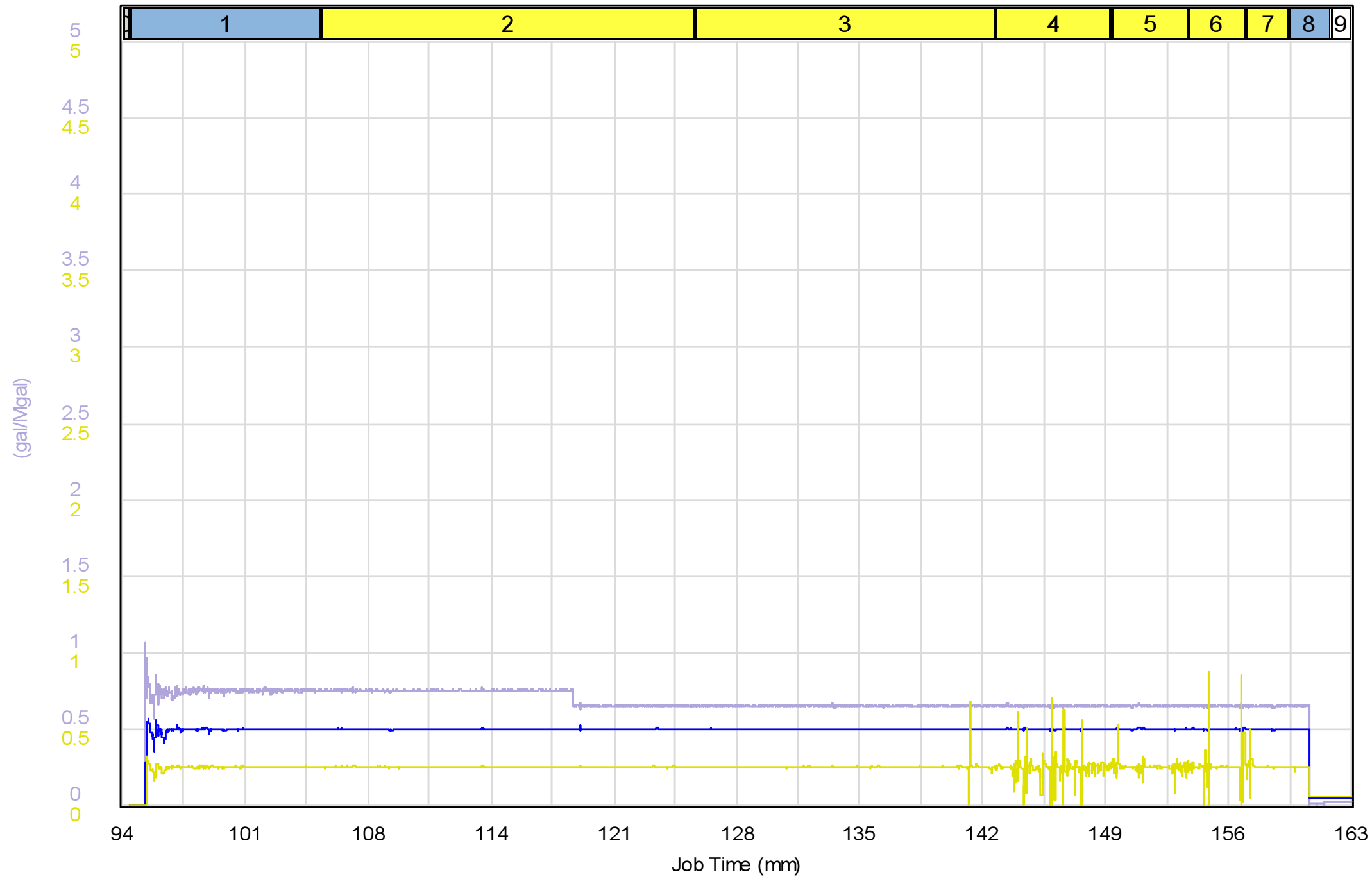
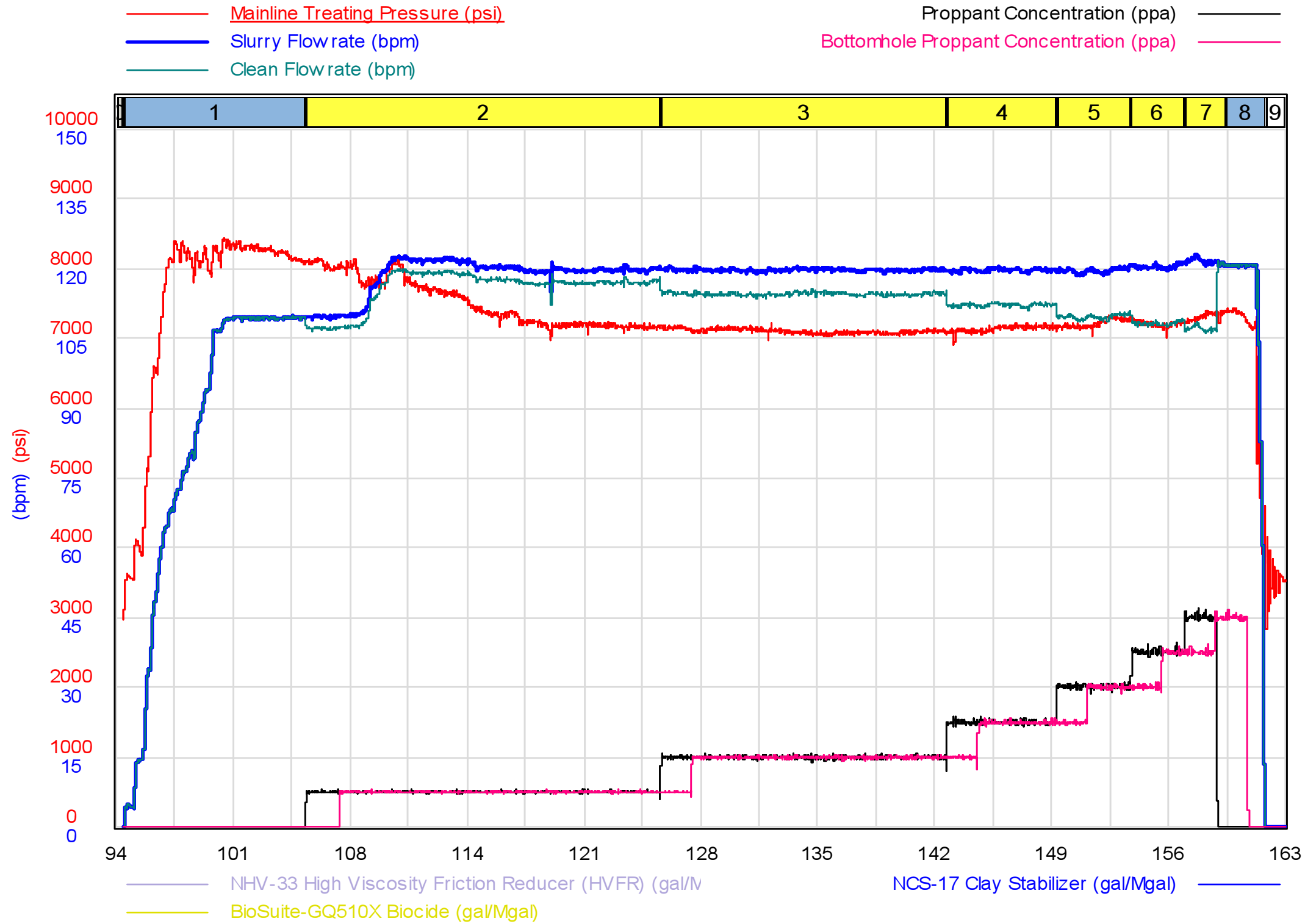


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	85.7	854		0.00	0
2	Slurry	118.3	2,443	40/70 Mesh	0.50	48,182
3	Slurry	119.8	1,946	40/70 Mesh	1.00	76,818
4	Slurry	120.7	731	40/70 Mesh	1.50	43,281
5	Slurry	120.5	481	40/70 Mesh	2.00	37,988
6	Slurry	121.7	341	40/70 Mesh	2.50	33,654
7	Slurry	121.9	405	40/70 Mesh	3.00	40,360
8	Flush	105.5	241		0.00	77
9	Shut In	0.0	0		0.00	0
Totals			7,441			280,360

Top Perforation	9,526 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	9,663 (ft)	Clean Vol.	7,441 (bbls)
Clusters	8	40/70 Mesh	280,360 (lbs)
Total Perforations	32	Total Proppant	280,360 (lbs)
Avg. Rate	119.8 (bpm)		
Avg. Pressure	7,051 (psi)		
Max Rate	123.4 (bpm)		
Max Pressure	8,450 (psi)		

Pumped as directed by customer representative.

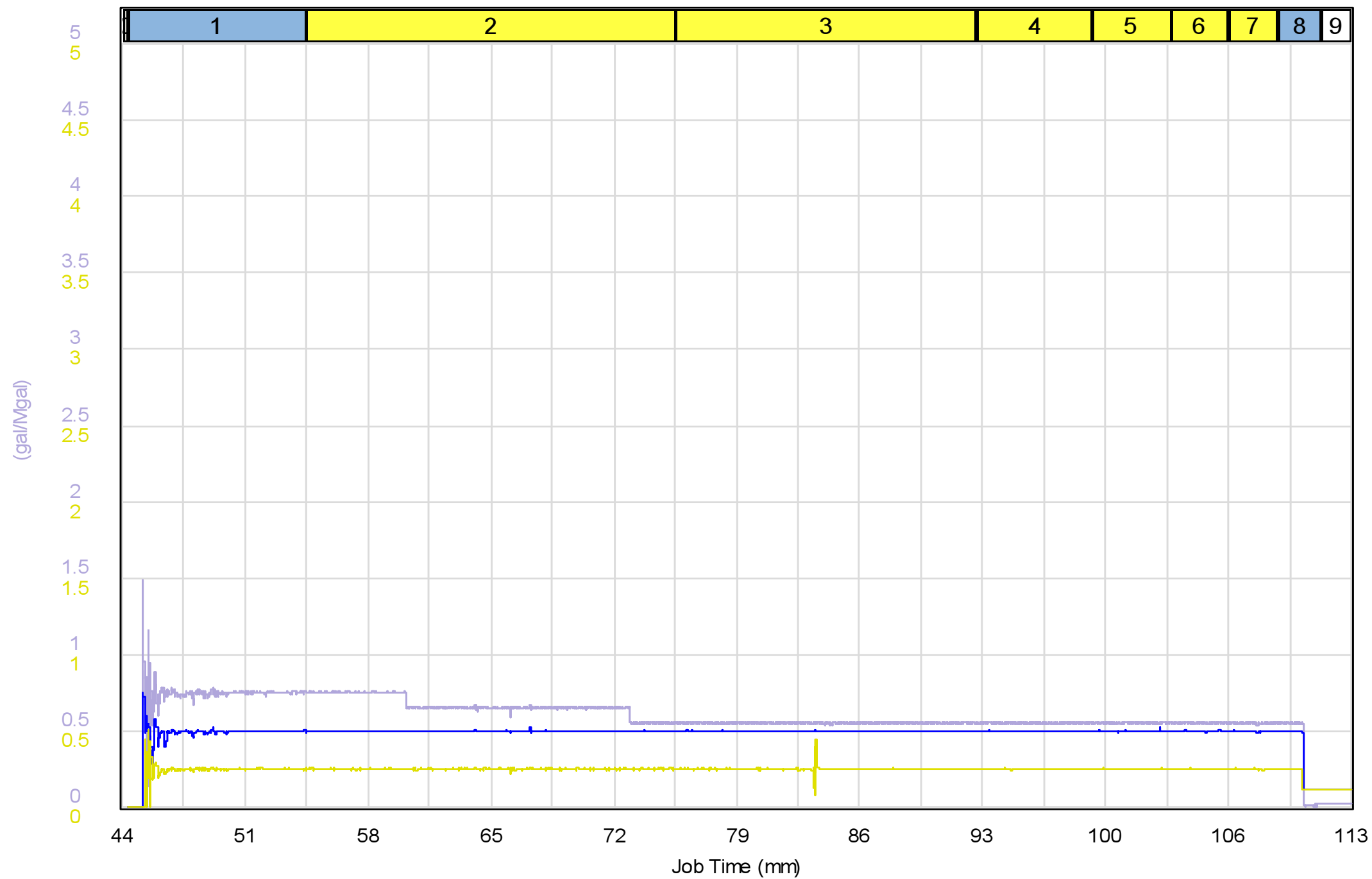
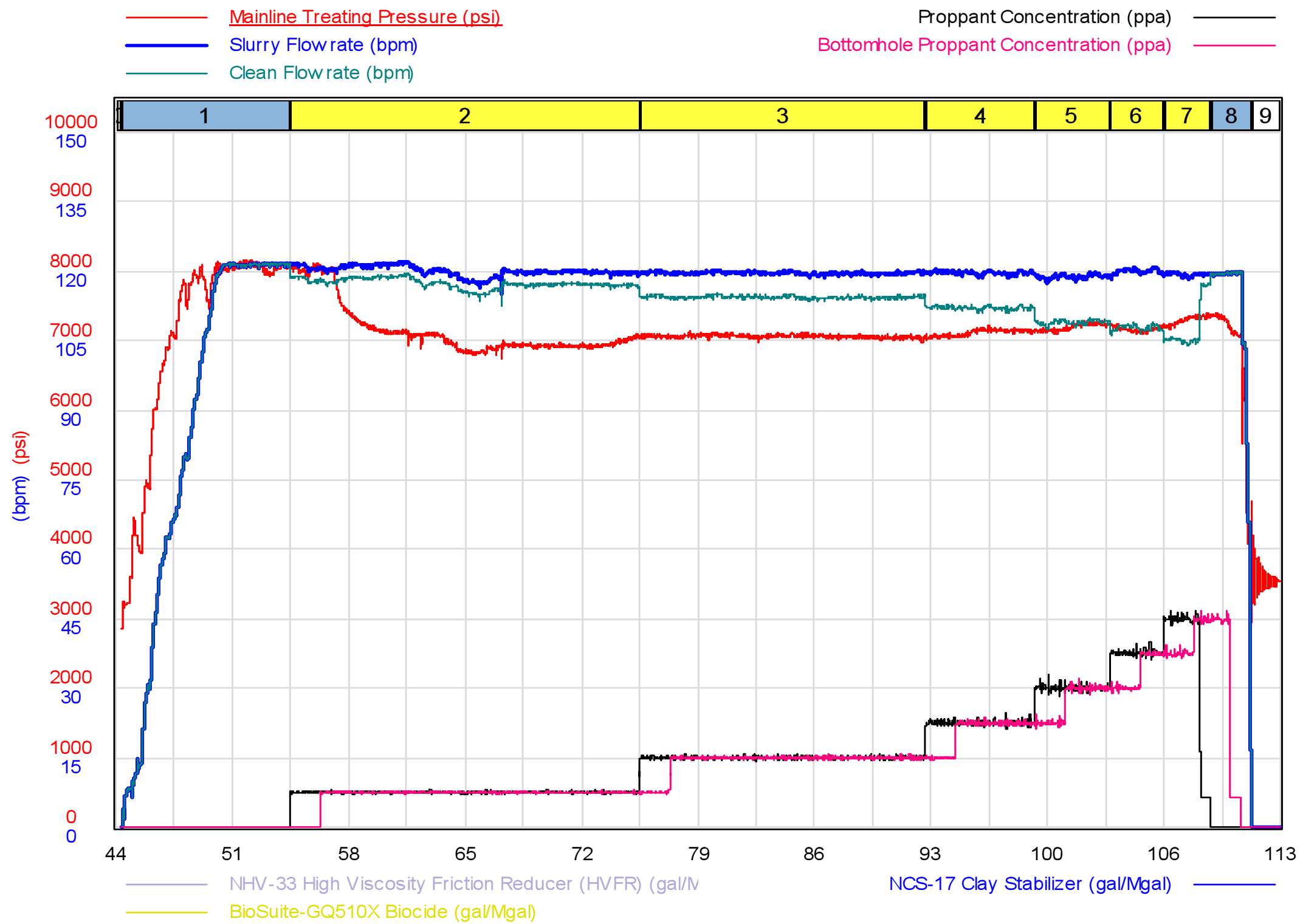


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	82.7	896		0.00	0
2	Slurry	118.5	2,445	40/70 Mesh	0.50	50,788
3	Slurry	119.8	1,954	40/70 Mesh	1.00	81,165
4	Slurry	119.8	733	40/70 Mesh	1.50	45,635
5	Slurry	119.6	484	40/70 Mesh	2.00	40,308
6	Slurry	120.5	341	40/70 Mesh	2.50	35,445
7	Slurry	121.6	279	40/70 Mesh	3.00	26,659
8	Flush	108.7	256		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,388			280,000

Top Perforation	9,351 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	9,488 (ft)	Clean Vol.	7,388 (bbls)
Clusters	8	40/70 Mesh	280,000 (lbs)
Total Perforations	32	Total Proppant	280,000 (lbs)
Avg. Rate	120.2 (bpm)		
Avg. Pressure	7,233 (psi)		
Max Rate	123.1 (bpm)		
Max Pressure	8,165 (psi)		

No NPT. Stage pumped by design. All proppant placed.

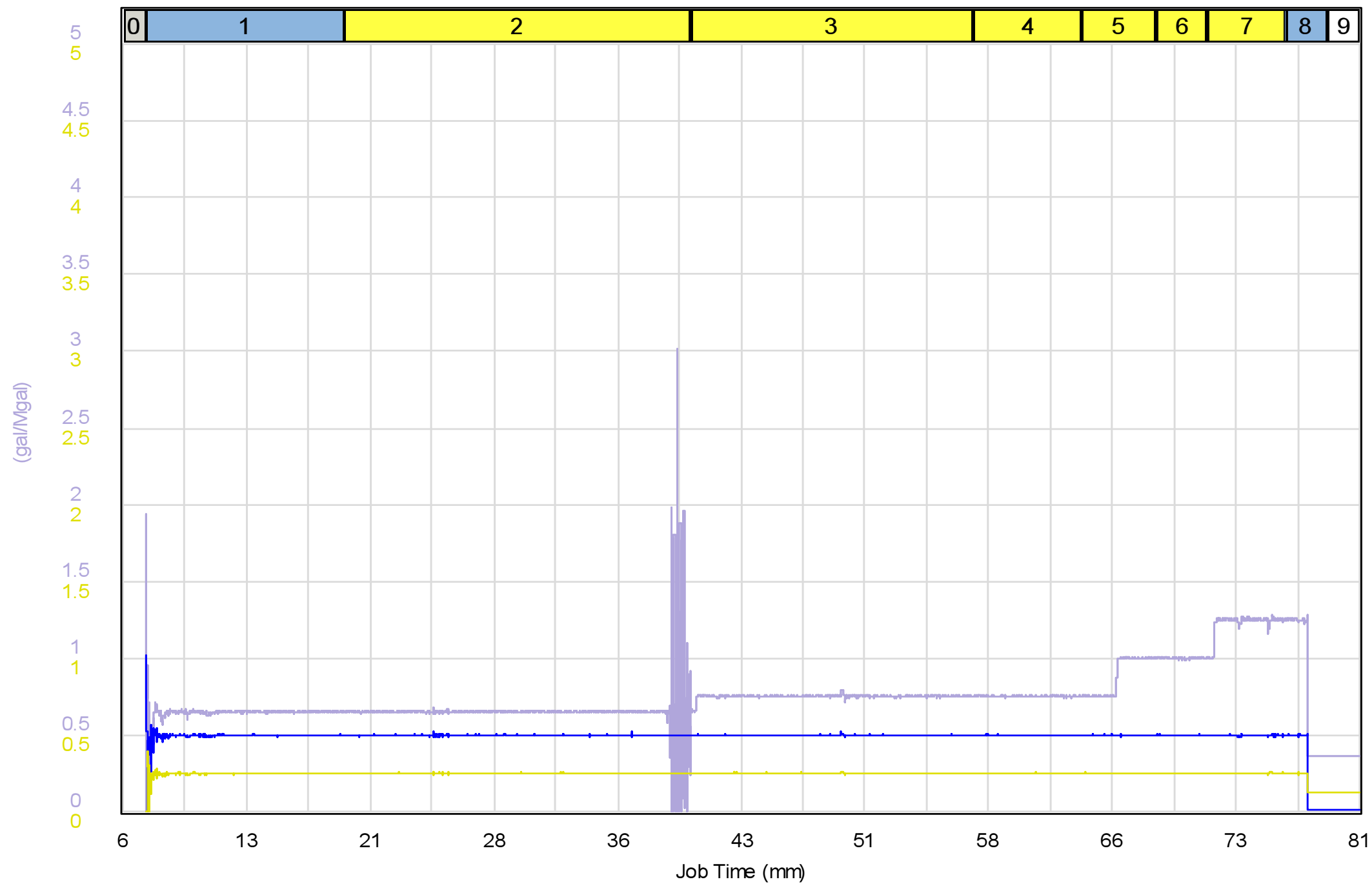
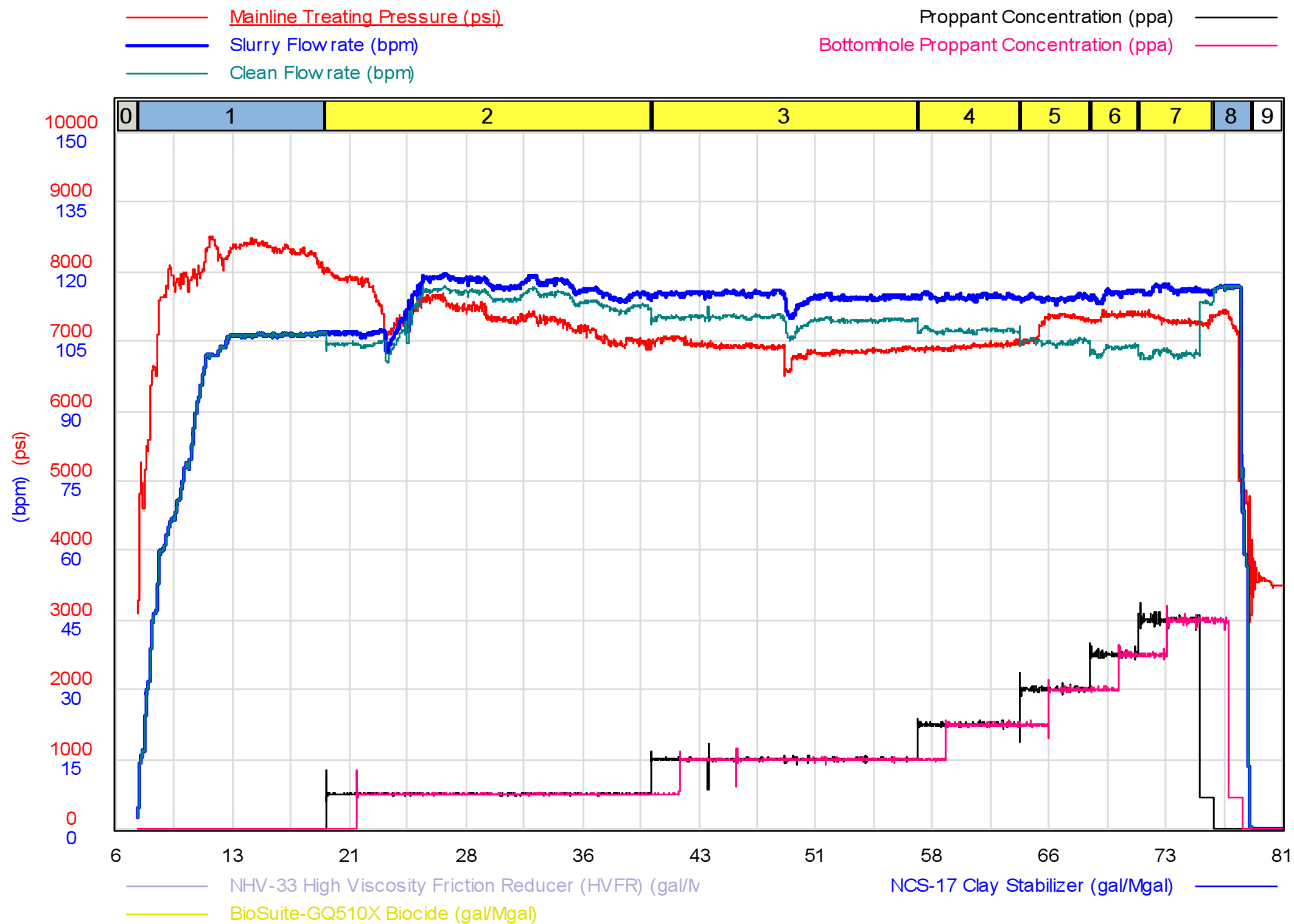


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	85.9	853		0.00	0
2	Slurry	120.1	2,442	40/70 Mesh	0.50	50,109
3	Slurry	119.7	1,941	40/70 Mesh	1.00	79,836
4	Slurry	119.7	729	40/70 Mesh	1.50	44,890
5	Slurry	118.9	489	40/70 Mesh	2.00	40,179
6	Slurry	120.1	342	40/70 Mesh	2.50	35,142
7	Slurry	119.3	301	40/70 Mesh	3.00	29,790
8	Flush	107.7	271		0.00	34
9	Shut In	0.0	0		0.00	0
Totals			7,367			279,980

Top Perforation	9,176 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	9,313 (ft)	Clean Vol.	7,367 (bbls)
Clusters	8	40/70 Mesh	279,980 (lbs)
Total Perforations	32	Total Proppant	279,980 (lbs)
Avg. Rate	119.7 (bpm)		
Avg. Pressure	7,082 (psi)		
Max Rate	122.2 (bpm)		
Max Pressure	7,408 (psi)		

No NPT. Stage pumped by design. All proppant placed.

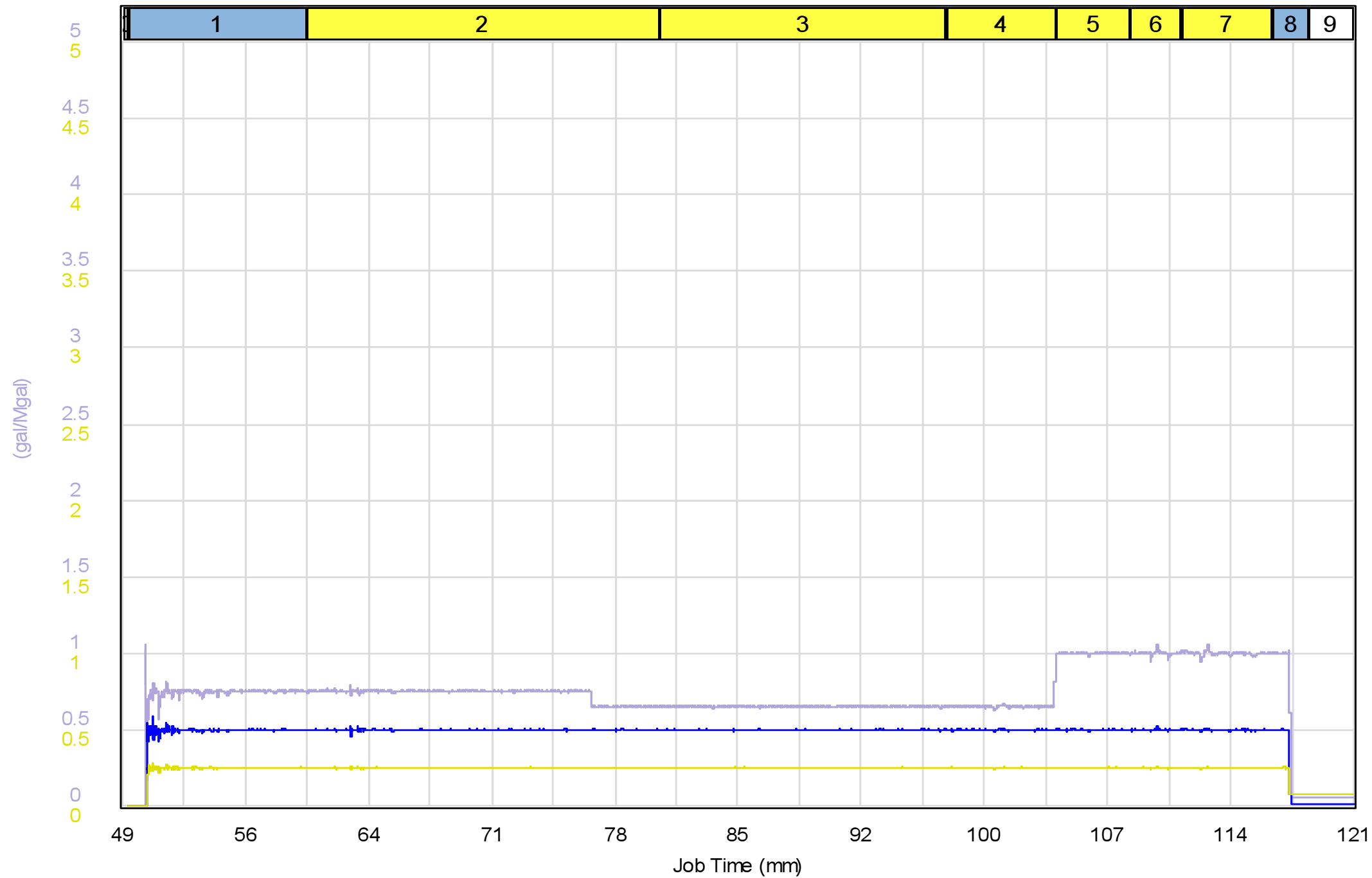
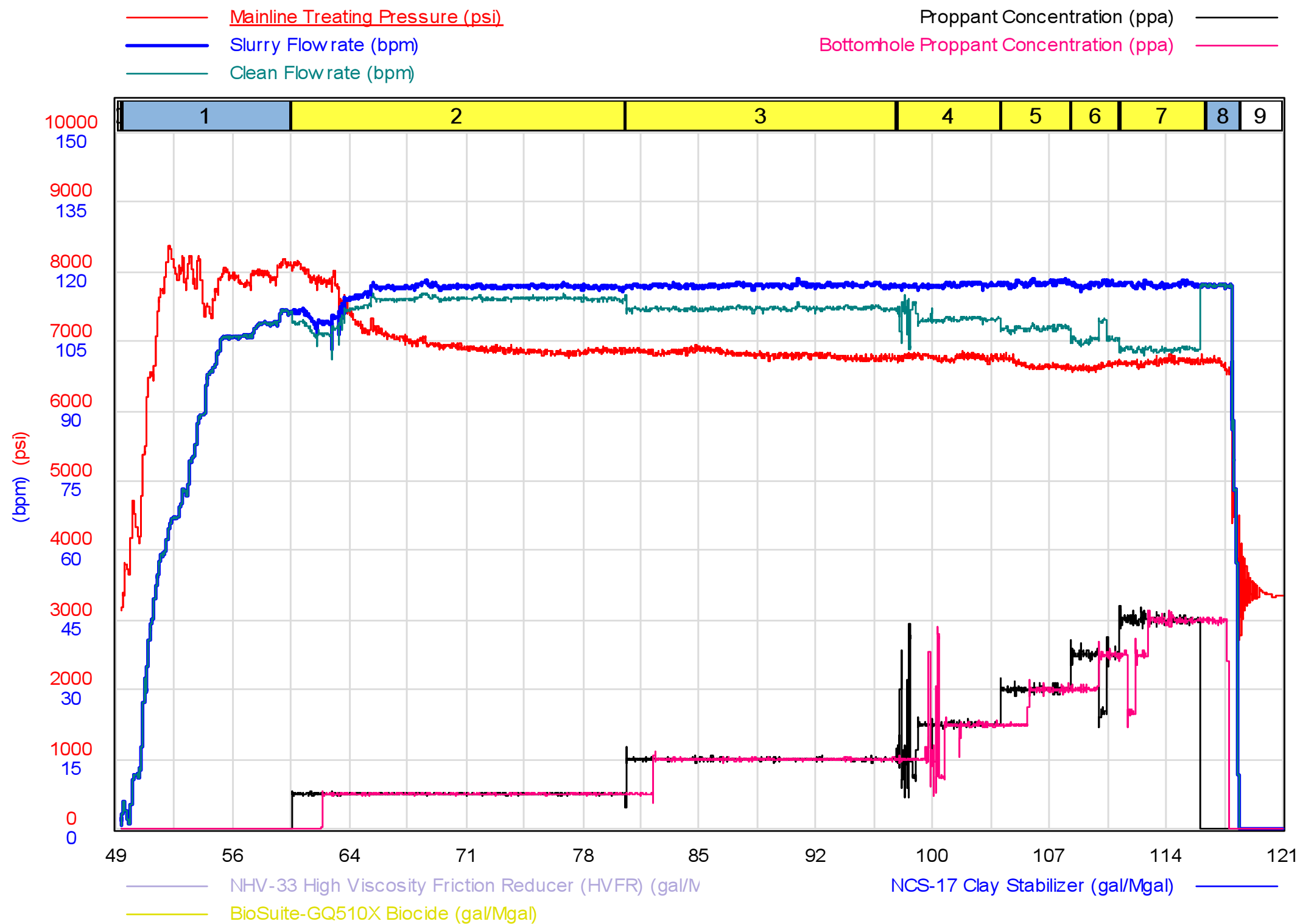


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	89.7	1,079		0.00	0
2	Slurry	114.4	2,352	40/70 Mesh	0.50	46,034
3	Slurry	114.7	1,883	40/70 Mesh	1.00	73,926
4	Slurry	114.7	709	40/70 Mesh	1.50	41,746
5	Slurry	114.4	472	40/70 Mesh	2.00	37,104
6	Slurry	115.1	327	40/70 Mesh	2.50	32,224
7	Slurry	116.1	499	40/70 Mesh	3.00	49,113
8	Flush	97.8	240		0.00	33
9	Shut In	0.0	0		0.00	0
Totals			7,561			280,180

Top Perforation	9,002 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	9,139 (ft)	Clean Vol.	7,561 (bbls)
Clusters	8	40/70 Mesh	280,180 (lbs)
Total Perforations	32	Total Proppant	280,180 (lbs)
Avg. Rate	115.0 (bpm)		
Avg. Pressure	7,147 (psi)		
Max Rate	119.6 (bpm)		
Max Pressure	7,927 (psi)		

Pumped as directed by customer representative.

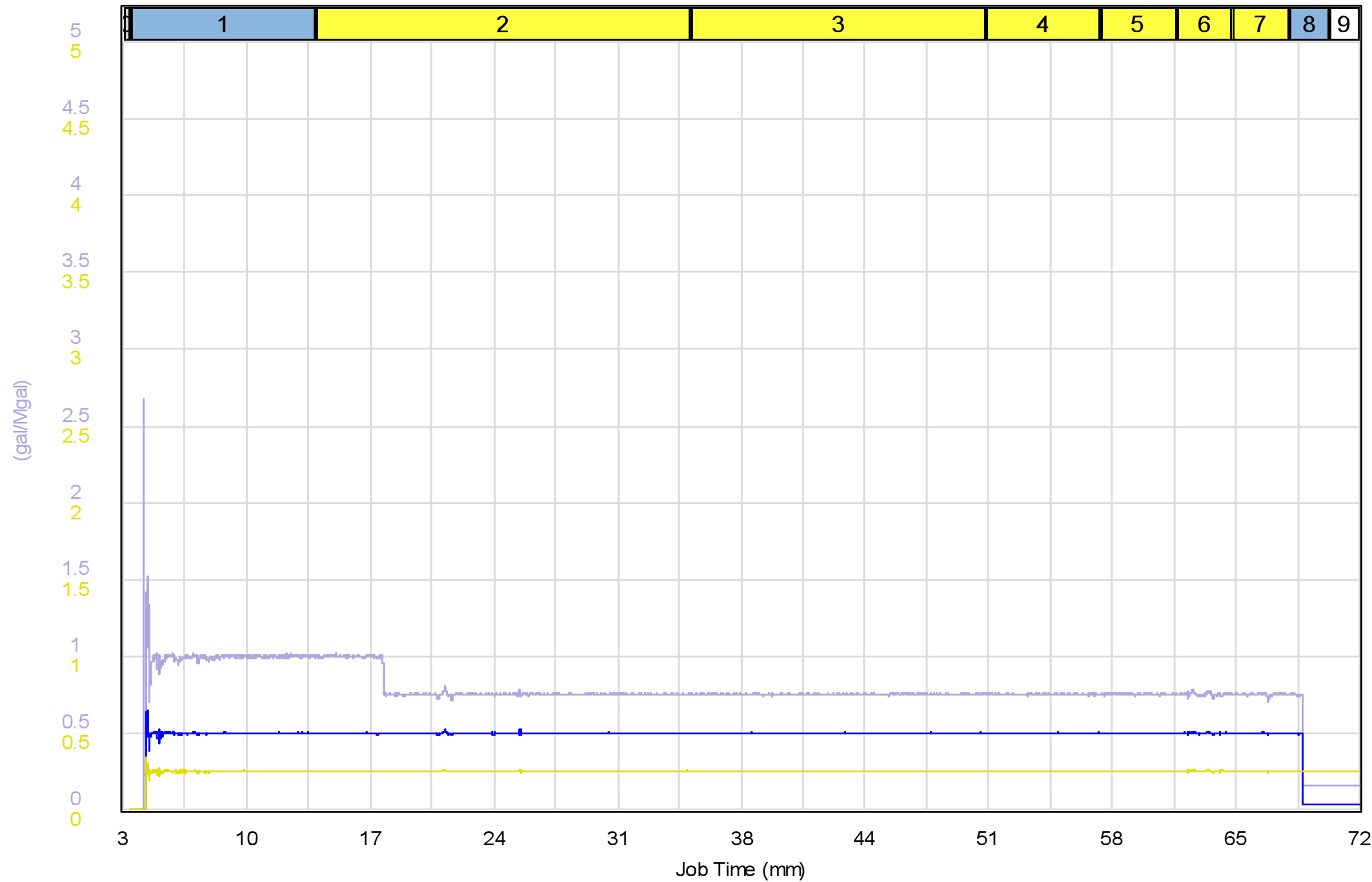
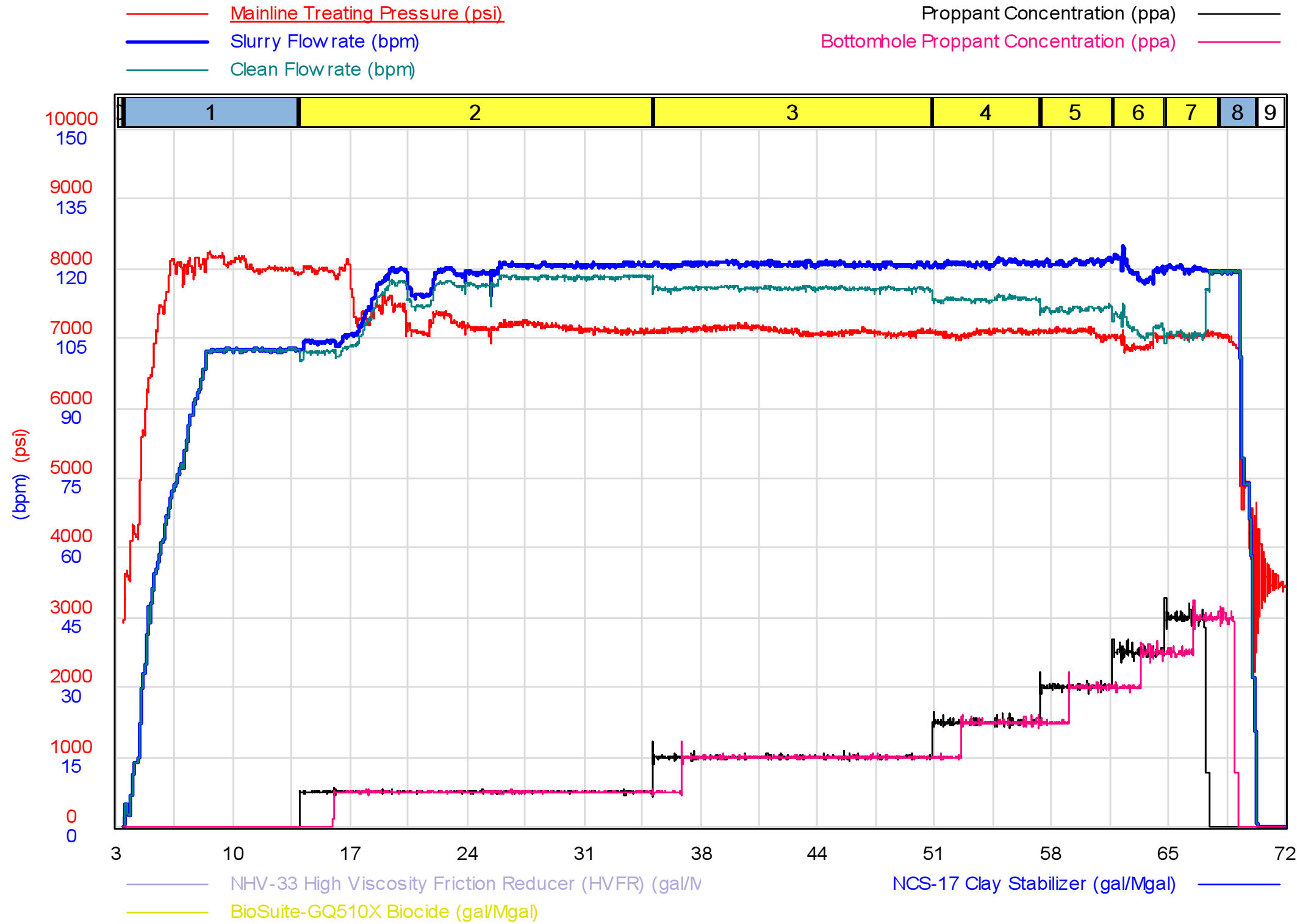


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	78.6	826		0.00	0
2	Slurry	115.7	2,347	40/70 Mesh	0.50	44,796
3	Slurry	117.1	1,889	40/70 Mesh	1.00	72,192
4	Slurry	117.2	704	40/70 Mesh	1.50	38,606
5	Slurry	117.6	471	40/70 Mesh	2.00	36,067
6	Slurry	117.3	323	40/70 Mesh	2.50	29,300
7	Slurry	117.3	561	40/70 Mesh	3.00	59,370
8	Flush	104.4	218		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,339			280,330

Top Perforation	8,827 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	8,964 (ft)	Clean Vol.	7,339 (bbls)
Clusters	8	40/70 Mesh	280,330 (lbs)
Total Perforations	32	Total Proppant	280,330 (lbs)
Avg. Rate	116.9 (bpm)		
Avg. Pressure	6,846 (psi)		
Max Rate	118.7 (bpm)		
Max Pressure	8,018 (psi)		

No NPT. Stage pumped by design. All proppant placed.

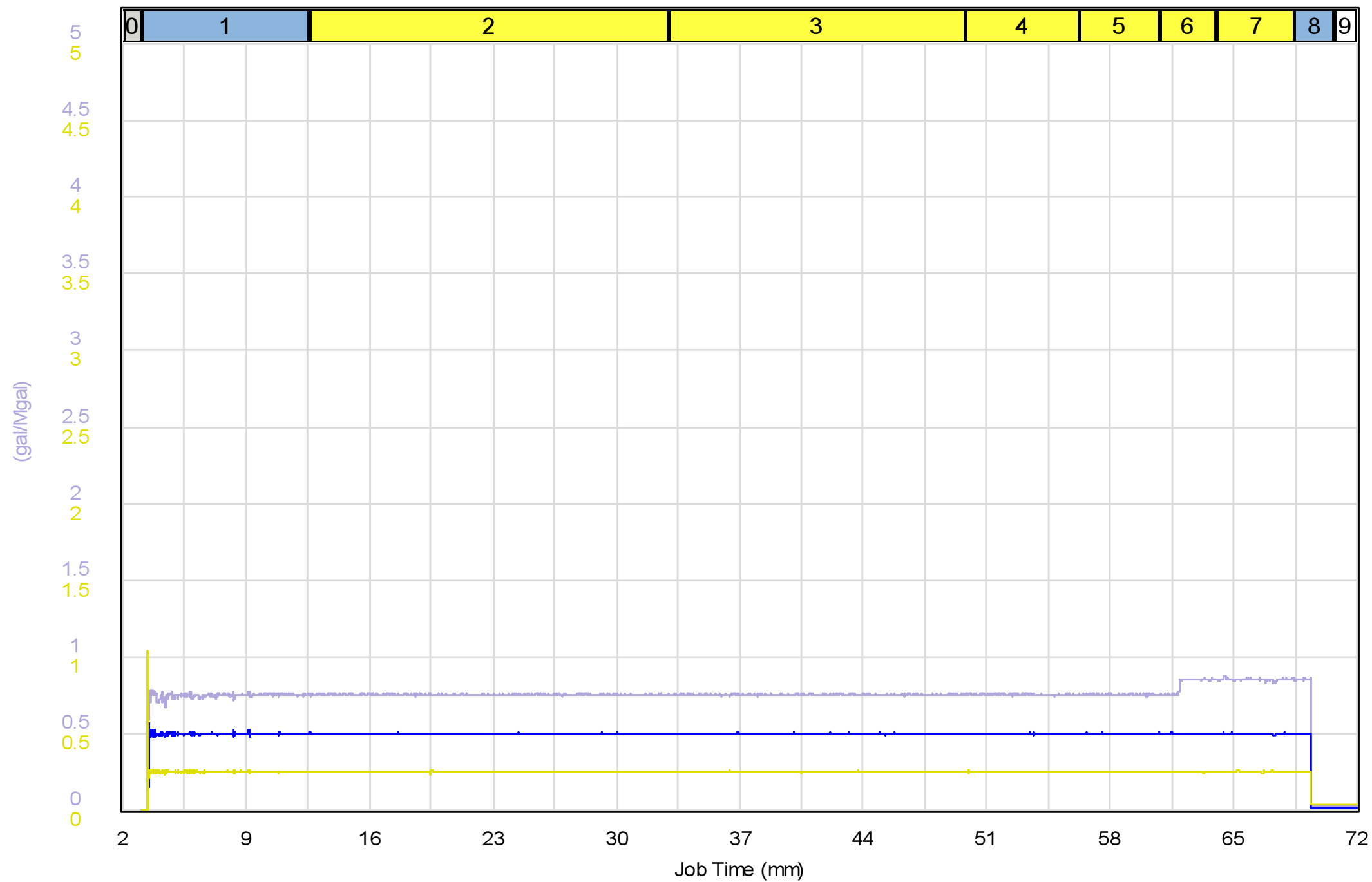
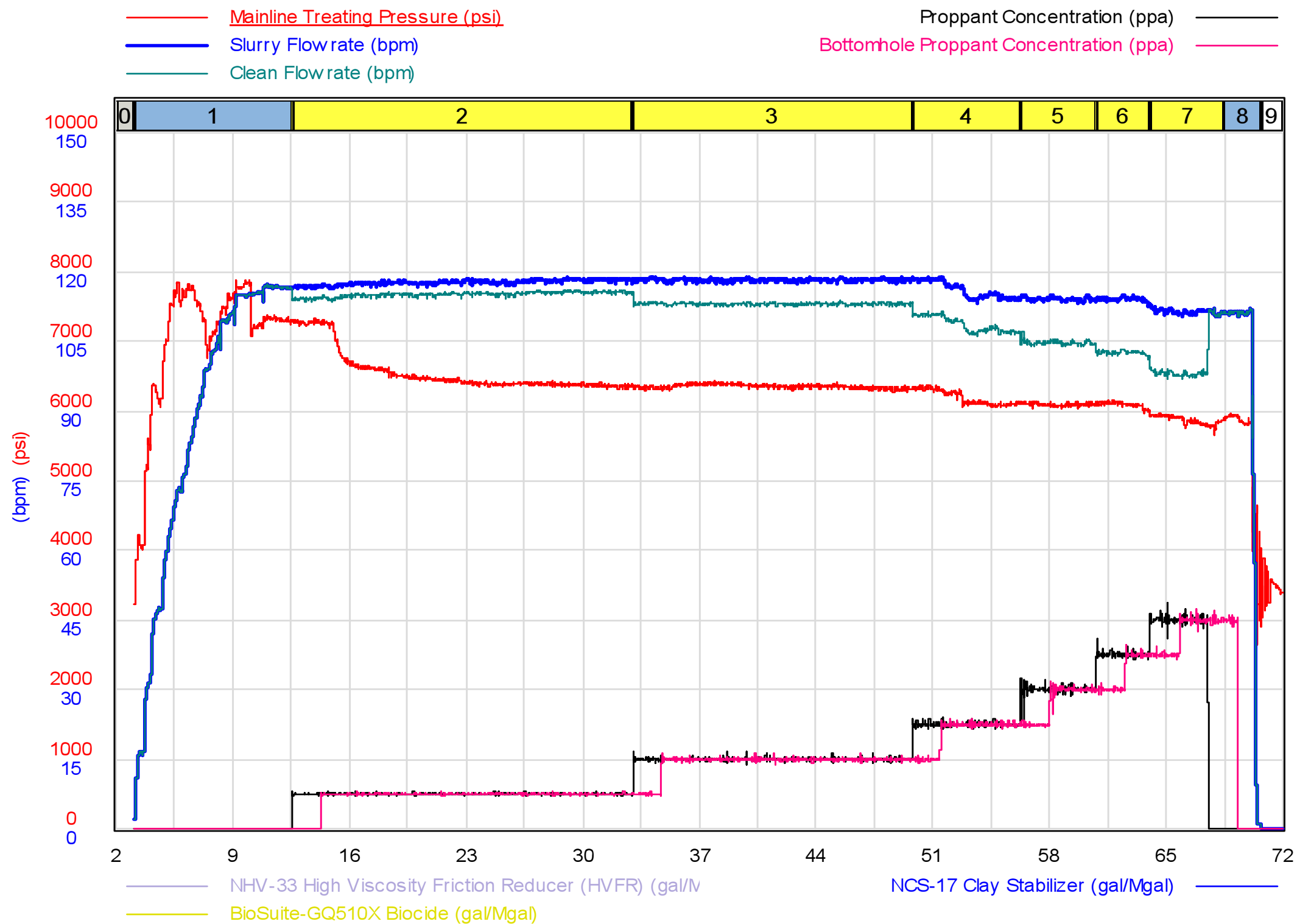


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	81.2	829		0.00	0
2	Slurry	116.7	2,352	40/70 Mesh	0.50	49,450
3	Slurry	121.0	1,891	40/70 Mesh	1.00	79,643
4	Slurry	121.2	711	40/70 Mesh	1.50	44,888
5	Slurry	121.4	471	40/70 Mesh	2.00	39,706
6	Slurry	119.9	328	40/70 Mesh	2.50	34,582
7	Slurry	120.0	347	40/70 Mesh	3.00	32,890
8	Flush	92.9	209		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,139			281,160

Top Perforation	8,652 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	8,789 (ft)	Clean Vol.	7,139 (bbls)
Clusters	8	40/70 Mesh	281,160 (lbs)
Total Perforations	32	Total Proppant	281,160 (lbs)
Avg. Rate	119.8 (bpm)		
Avg. Pressure	7,142 (psi)		
Max Rate	124.8 (bpm)		
Max Pressure	8,140 (psi)		

Pumped as directed by customer representative.

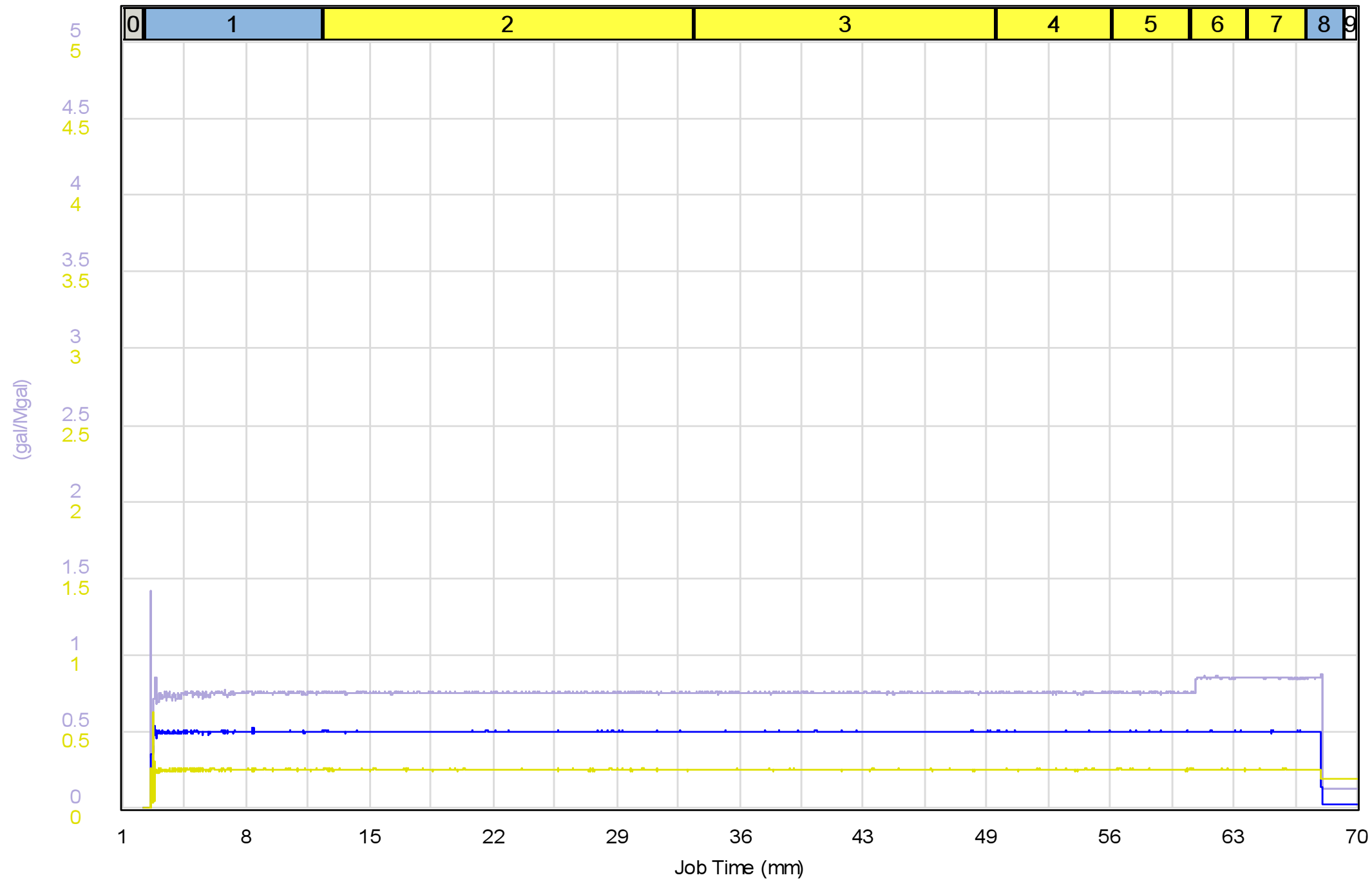
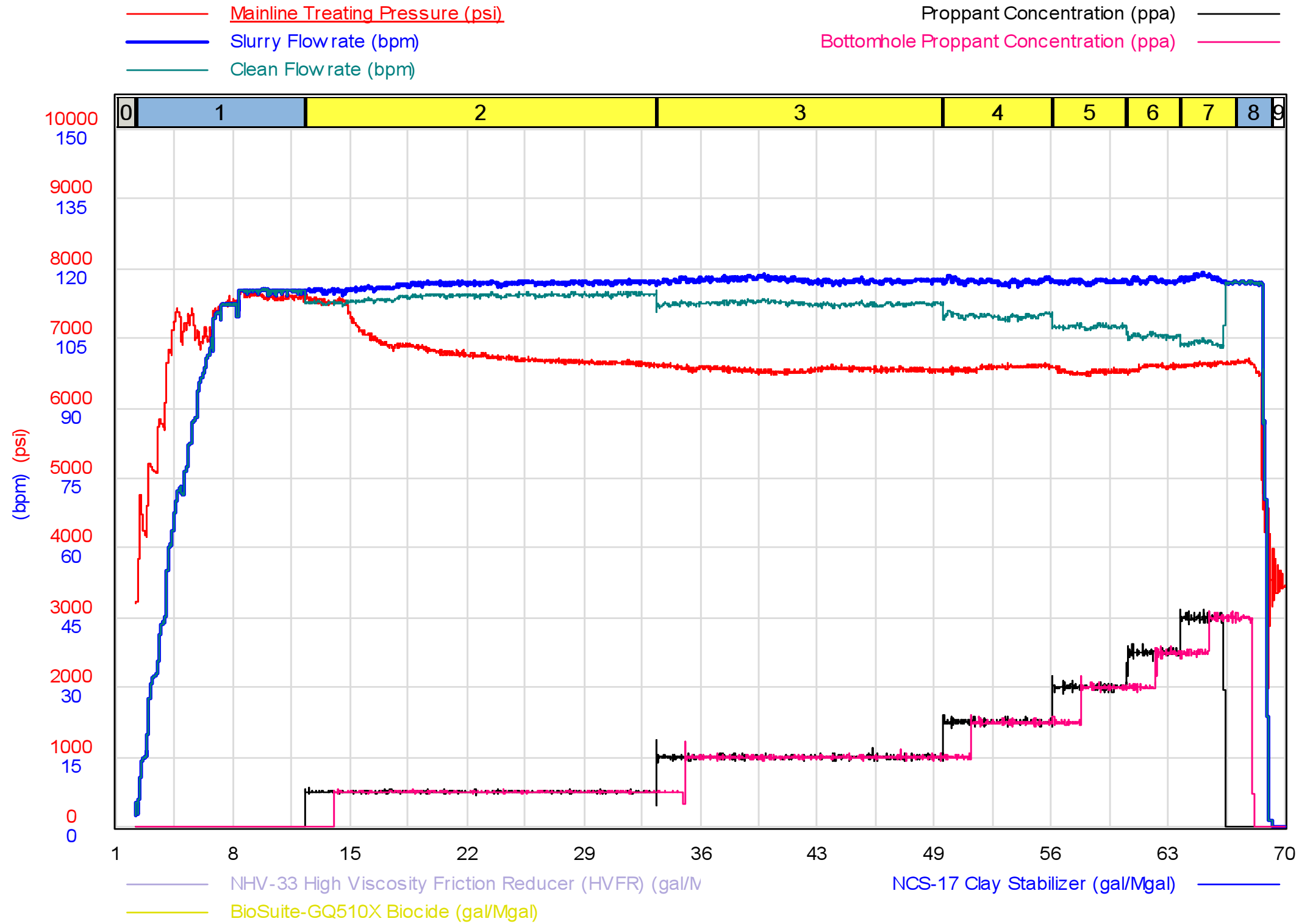


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	88.2	829		0.00	0
2	Slurry	117.8	2,351	40/70 Mesh	0.50	47,444
3	Slurry	118.3	1,893	40/70 Mesh	1.00	76,483
4	Slurry	116.1	707	40/70 Mesh	1.50	42,868
5	Slurry	114.2	473	40/70 Mesh	2.00	38,242
6	Slurry	114.2	330	40/70 Mesh	2.50	33,338
7	Slurry	111.4	442	40/70 Mesh	3.00	41,804
8	Flush	91.0	211		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,236			280,180

Top Perforation	8,477 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	8,614 (ft)	Clean Vol.	7,236 (bbls)
Clusters	8	40/70 Mesh	280,180 (lbs)
Total Perforations	32	Total Proppant	280,180 (lbs)
Avg. Rate	116.6 (bpm)		
Avg. Pressure	6,302 (psi)		
Max Rate	118.9 (bpm)		
Max Pressure	7,317 (psi)		

Pumped as directed by customer representative.

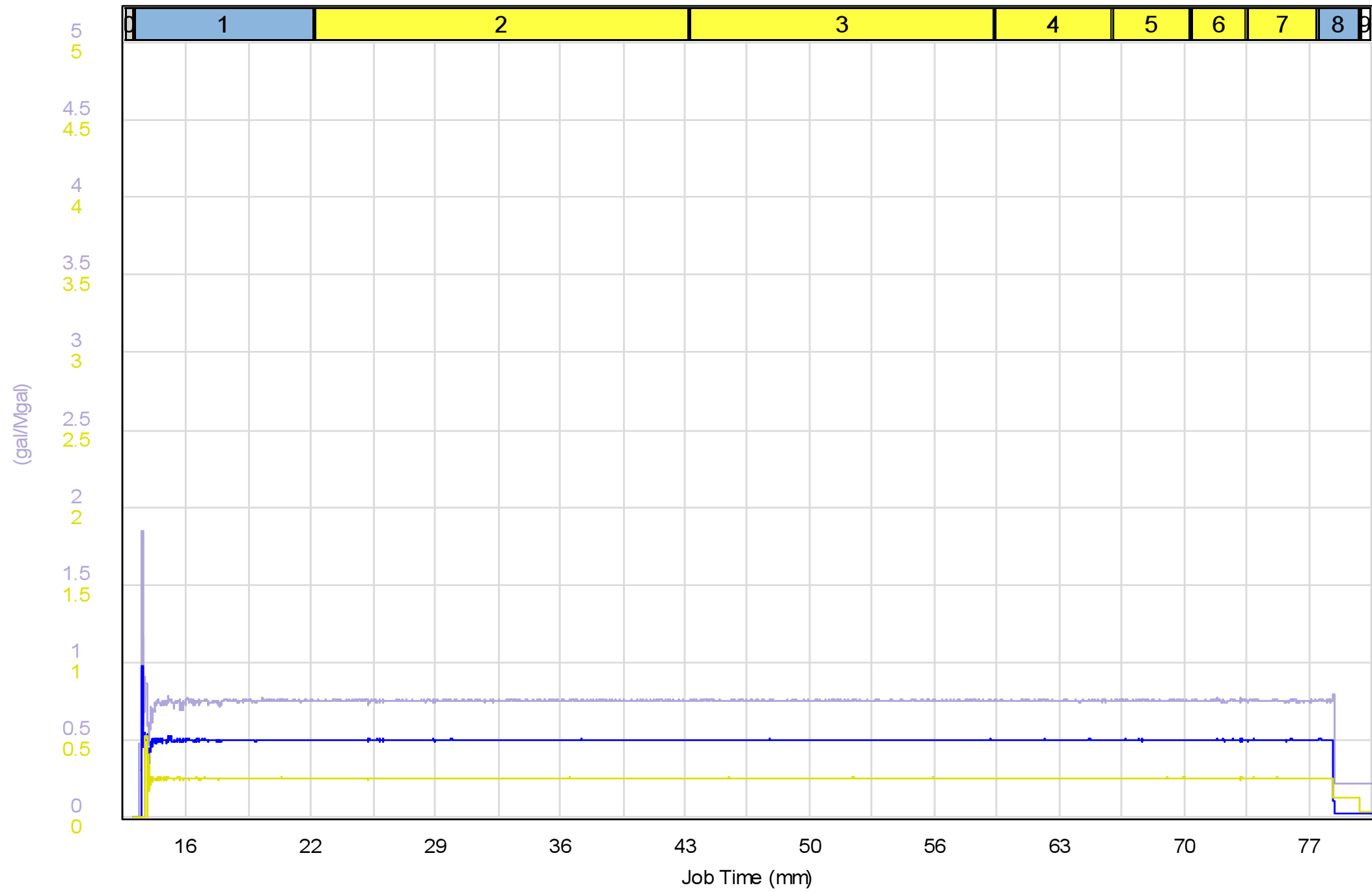
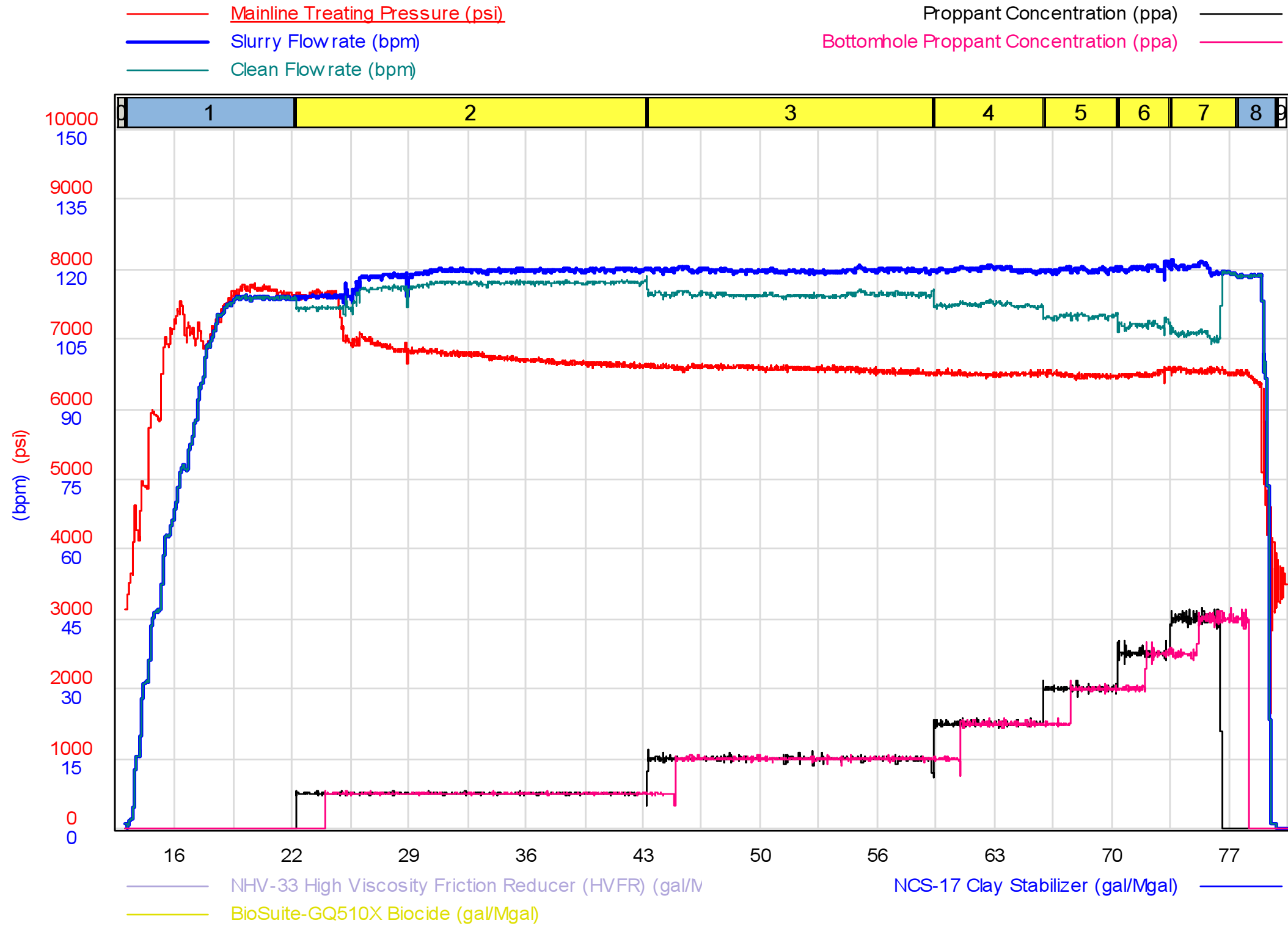


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	89.6	885		0.00	0
2	Slurry	116.6	2,359	40/70 Mesh	0.50	49,018
3	Slurry	117.6	1,897	40/70 Mesh	1.00	79,049
4	Slurry	117.4	709	40/70 Mesh	1.50	44,283
5	Slurry	117.3	472	40/70 Mesh	2.00	39,308
6	Slurry	117.4	331	40/70 Mesh	2.50	34,372
7	Slurry	117.9	348	40/70 Mesh	3.00	34,010
8	Flush	96.4	211		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,211			280,040

Top Perforation	8,303 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	8,440 (ft)	Clean Vol.	7,211 (bbls)
Clusters	8	40/70 Mesh	280,040 (lbs)
Total Perforations	32	Total Proppant	280,040 (lbs)
Avg. Rate	117.2 (bpm)		
Avg. Pressure	6,655 (psi)		
Max Rate	119.2 (bpm)		
Max Pressure	7,596 (psi)		

Pumped as directed by customer representative.

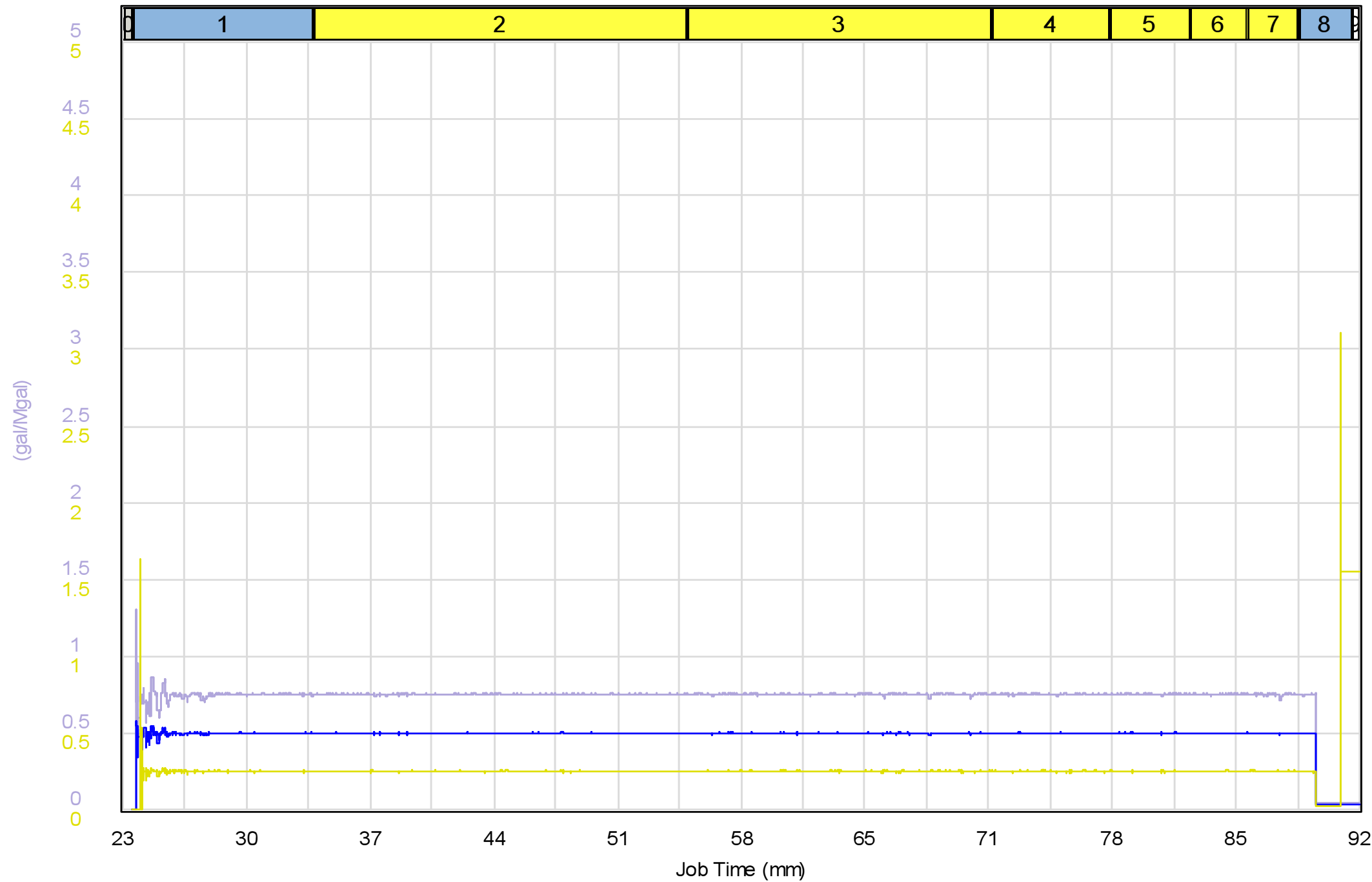
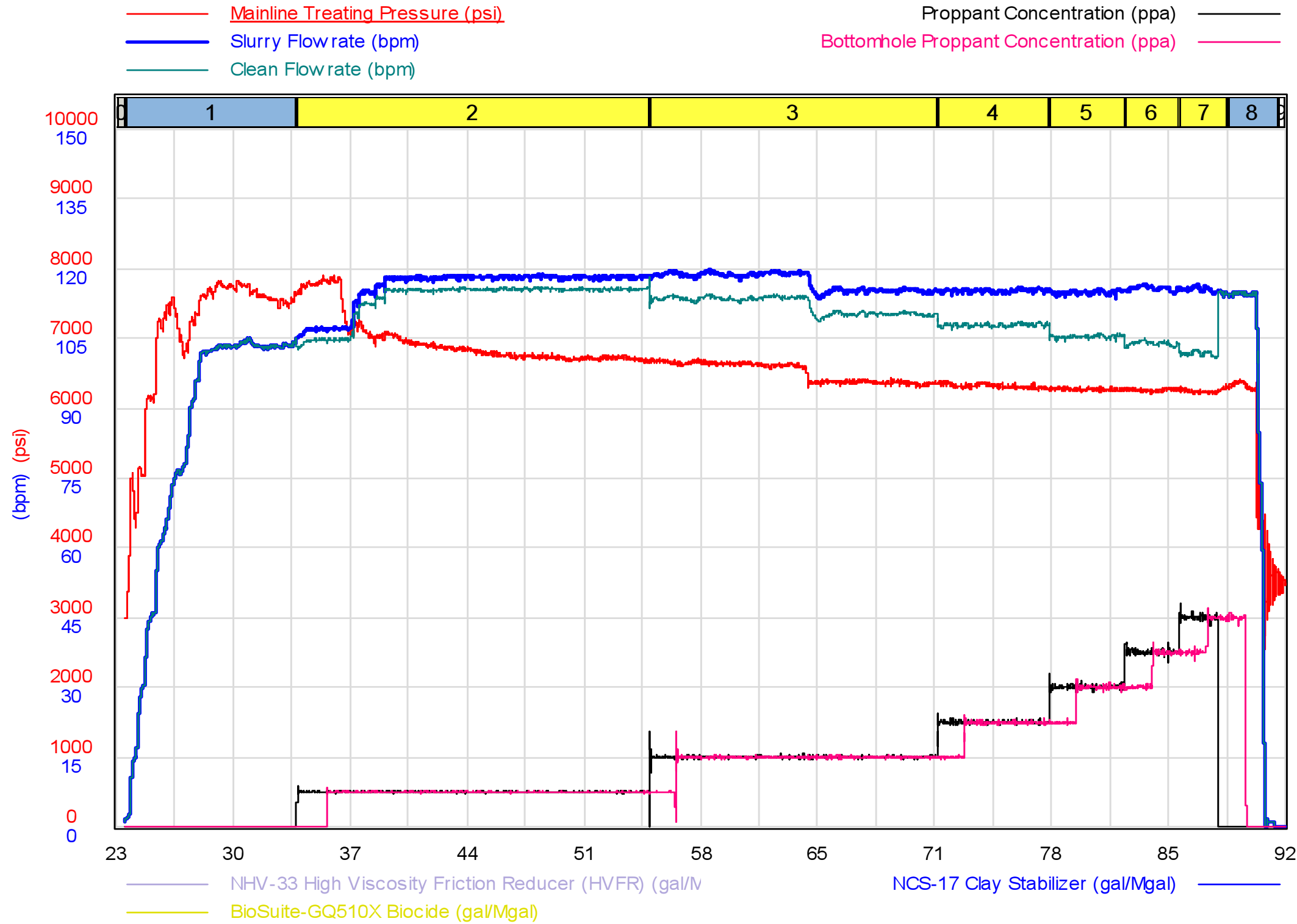


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	85.0	830		0.00	0
2	Slurry	118.6	2,357	40/70 Mesh	0.50	48,234
3	Slurry	119.8	1,893	40/70 Mesh	1.00	77,608
4	Slurry	120.0	708	40/70 Mesh	1.50	43,600
5	Slurry	119.9	476	40/70 Mesh	2.00	39,096
6	Slurry	120.3	330	40/70 Mesh	2.50	33,847
7	Slurry	120.2	417	40/70 Mesh	3.00	37,955
8	Flush	94.1	214		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,224			280,340

Top Perforation	8,128 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	8,265 (ft)	Clean Vol.	7,224 (bbls)
Clusters	8	40/70 Mesh	280,340 (lbs)
Total Perforations	32	Total Proppant	280,340 (lbs)
Avg. Rate	119.8 (bpm)		
Avg. Pressure	6,602 (psi)		
Max Rate	122.0 (bpm)		
Max Pressure	6,972 (psi)		

Pumped as directed by customer representative.

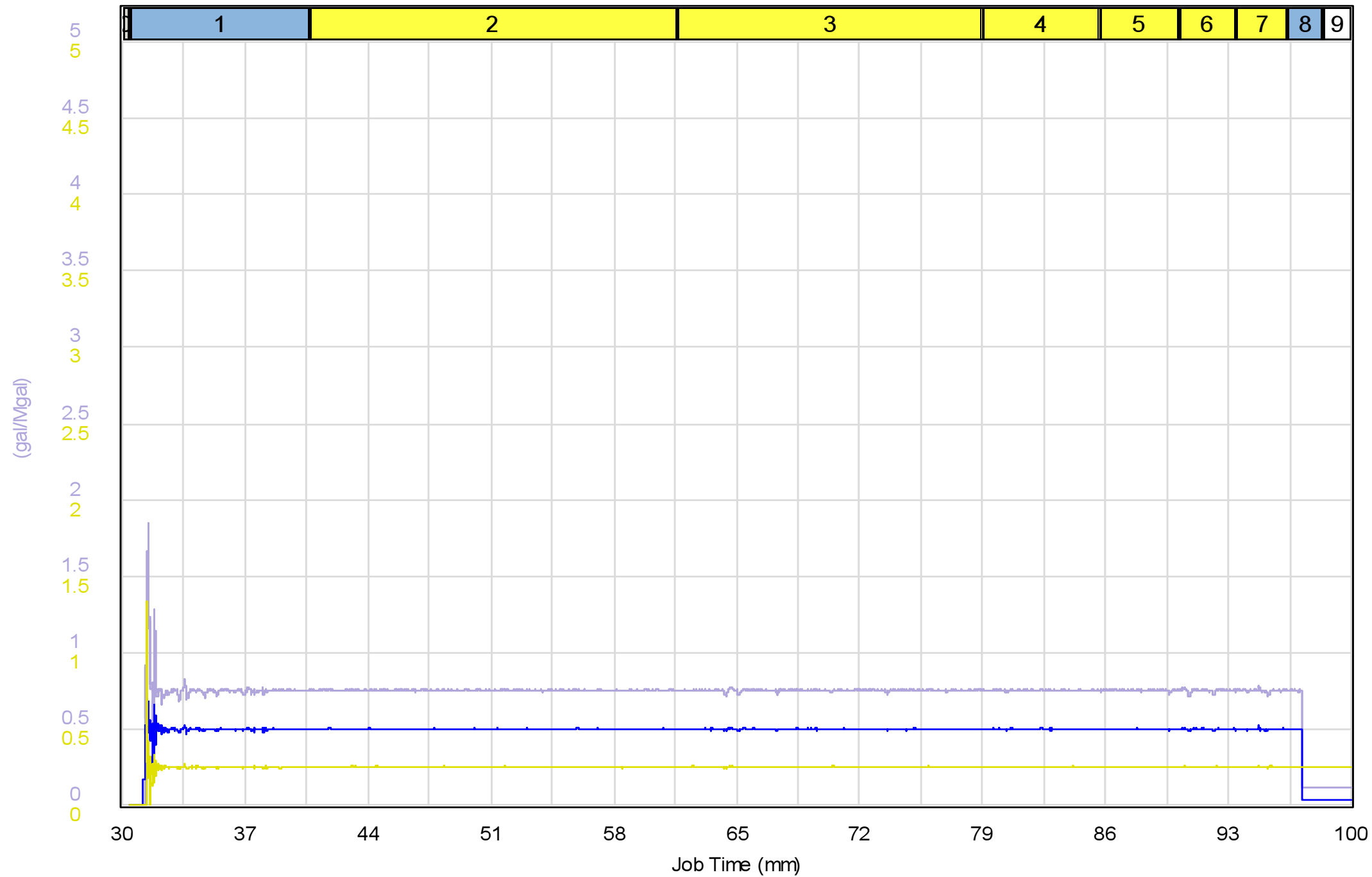
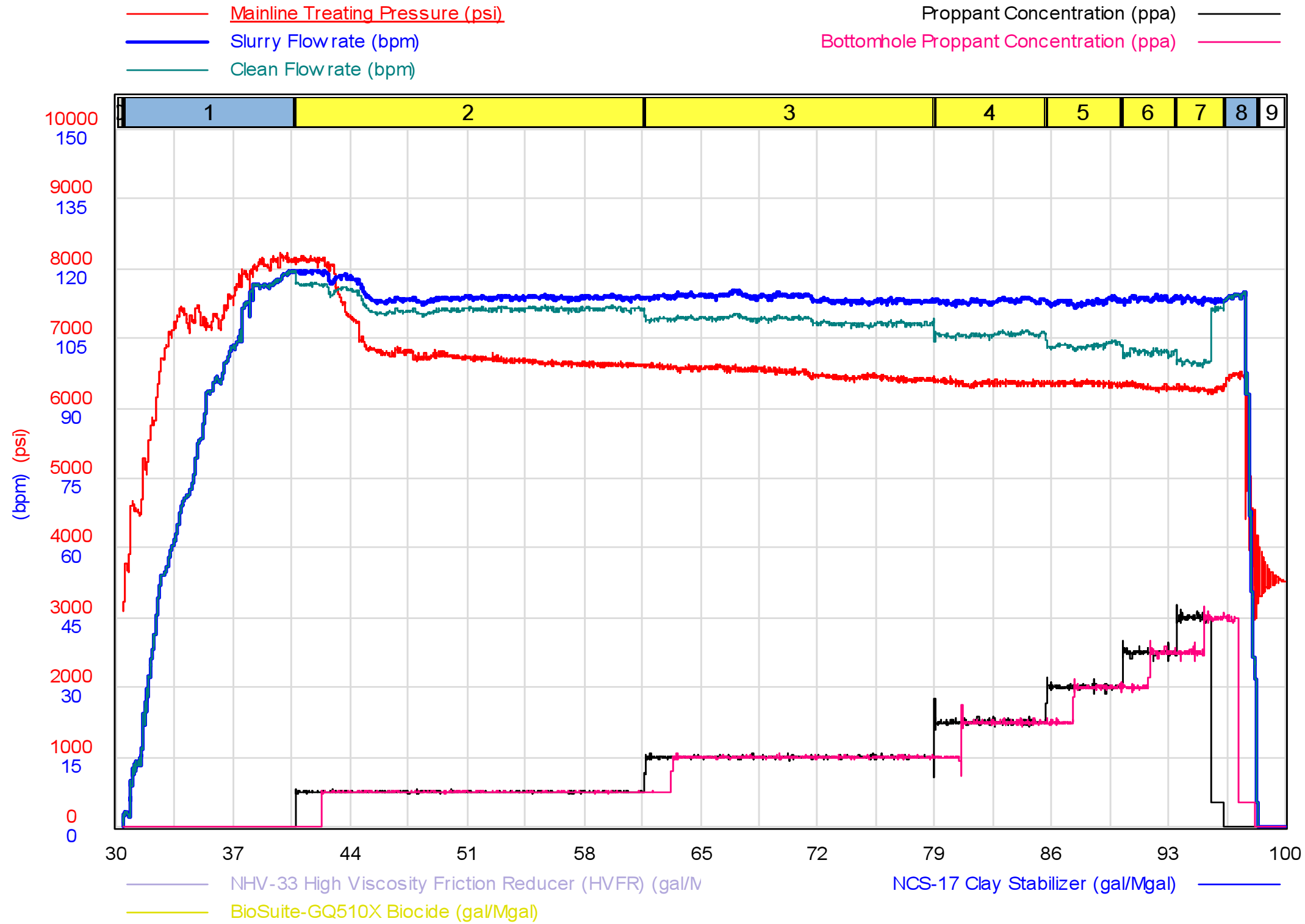


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	82.2	831		0.00	0
2	Slurry	116.1	2,357	40/70 Mesh	0.50	49,689
3	Slurry	117.3	1,904	40/70 Mesh	1.00	80,461
4	Slurry	115.3	714	40/70 Mesh	1.50	45,285
5	Slurry	114.9	473	40/70 Mesh	2.00	39,988
6	Slurry	115.8	328	40/70 Mesh	2.50	34,643
7	Slurry	115.4	305	40/70 Mesh	3.00	30,033
8	Flush	76.8	226		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,136			280,100

Top Perforation	7,953 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	8,090 (ft)	Clean Vol.	7,136 (bbls)
Clusters	8	40/70 Mesh	280,100 (lbs)
Total Perforations	32	Total Proppant	280,100 (lbs)
Avg. Rate	116.8 (bpm)		
Avg. Pressure	6,527 (psi)		
Max Rate	119.8 (bpm)		
Max Pressure	7,096 (psi)		

Pumped as directed by customer representative.

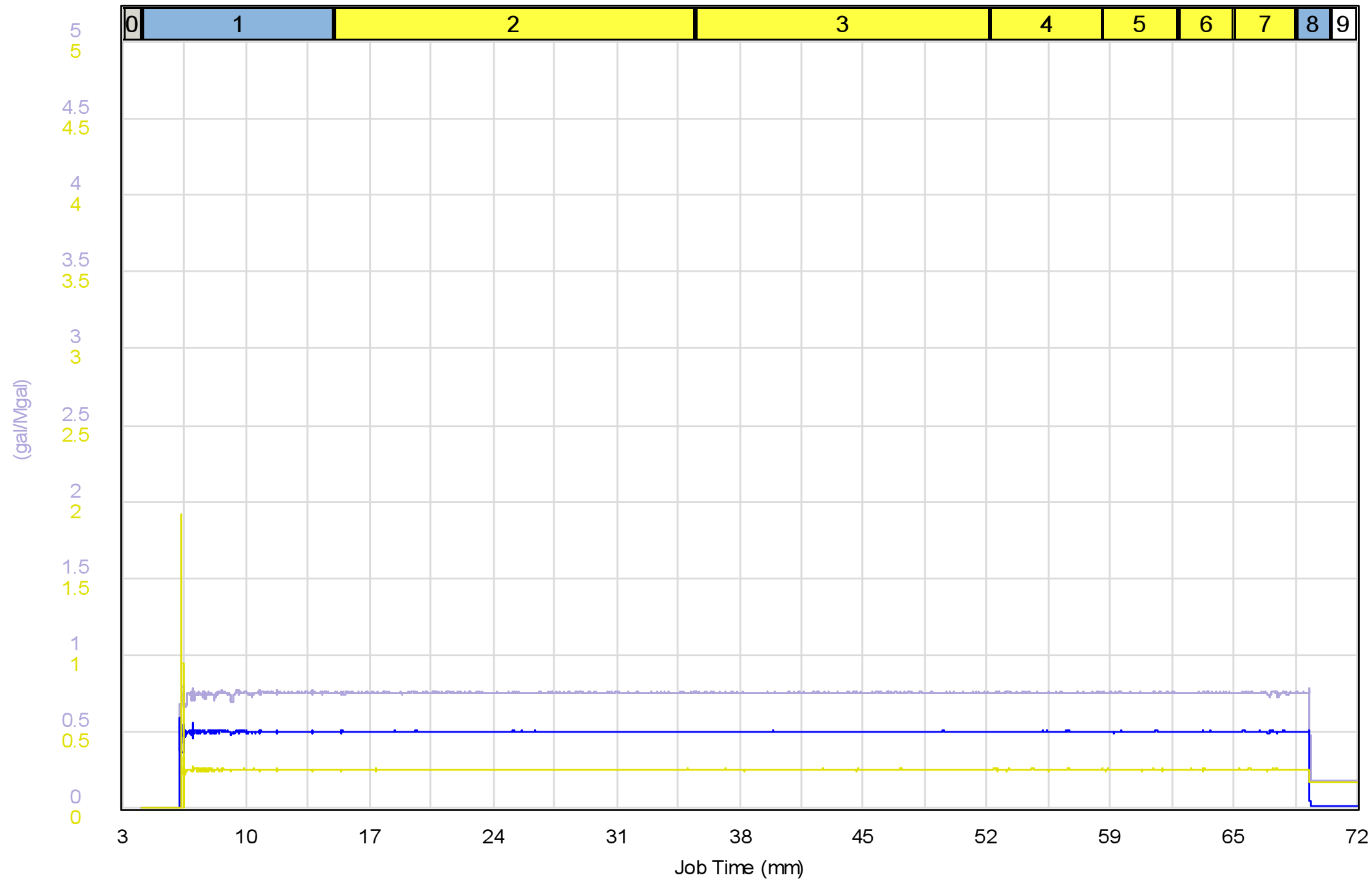
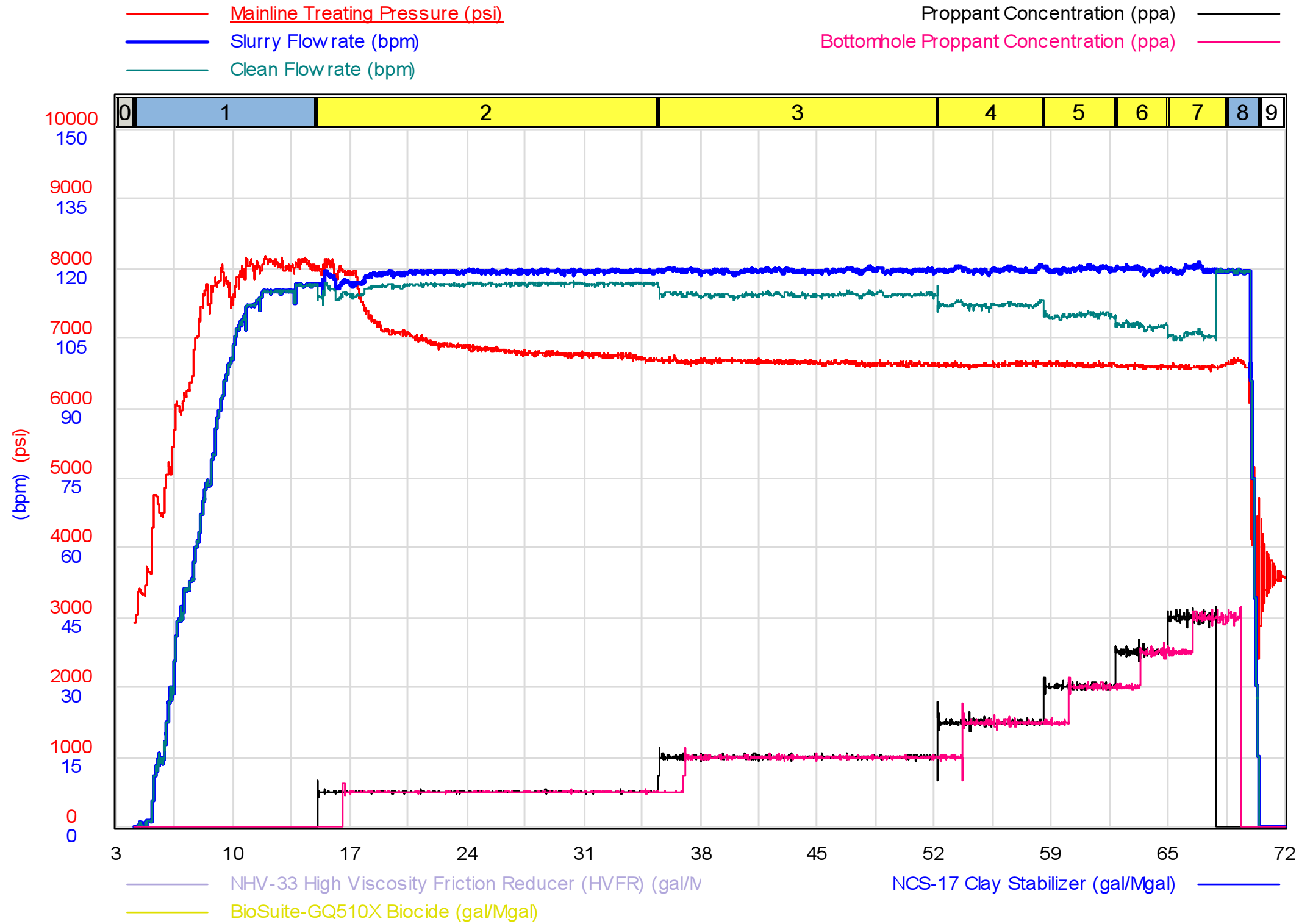


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	79.8	826		0.00	0
2	Slurry	114.6	2,364	40/70 Mesh	0.50	50,102
3	Slurry	113.8	1,898	40/70 Mesh	1.00	80,581
4	Slurry	113.1	716	40/70 Mesh	1.50	45,649
5	Slurry	112.9	474	40/70 Mesh	2.00	40,289
6	Slurry	113.5	333	40/70 Mesh	2.50	35,383
7	Slurry	113.4	297	40/70 Mesh	3.00	28,109
8	Flush	93.0	191		0.00	27
9	Shut In	0.0	0		0.00	0
Totals			7,099			280,140

Top Perforation	7,779 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	7,915 (ft)	Clean Vol.	7,099 (bbls)
Clusters	8	40/70 Mesh	280,140 (lbs)
Total Perforations	32	Total Proppant	280,140 (lbs)
Avg. Rate	113.8 (bpm)		
Avg. Pressure	6,564 (psi)		
Max Rate	119.5 (bpm)		
Max Pressure	8,162 (psi)		

No NPT. Stage pumped by design. All proppant placed.

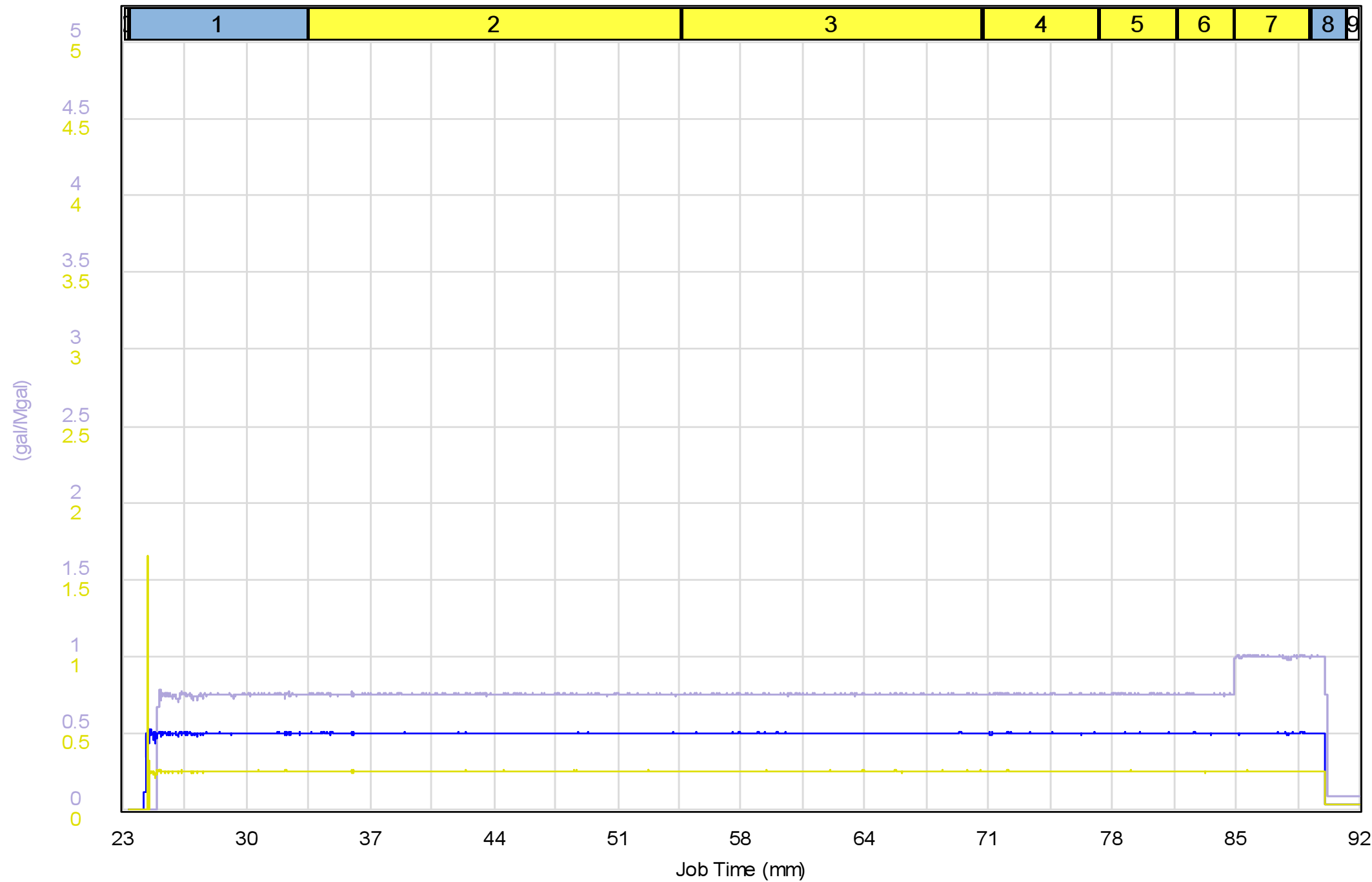
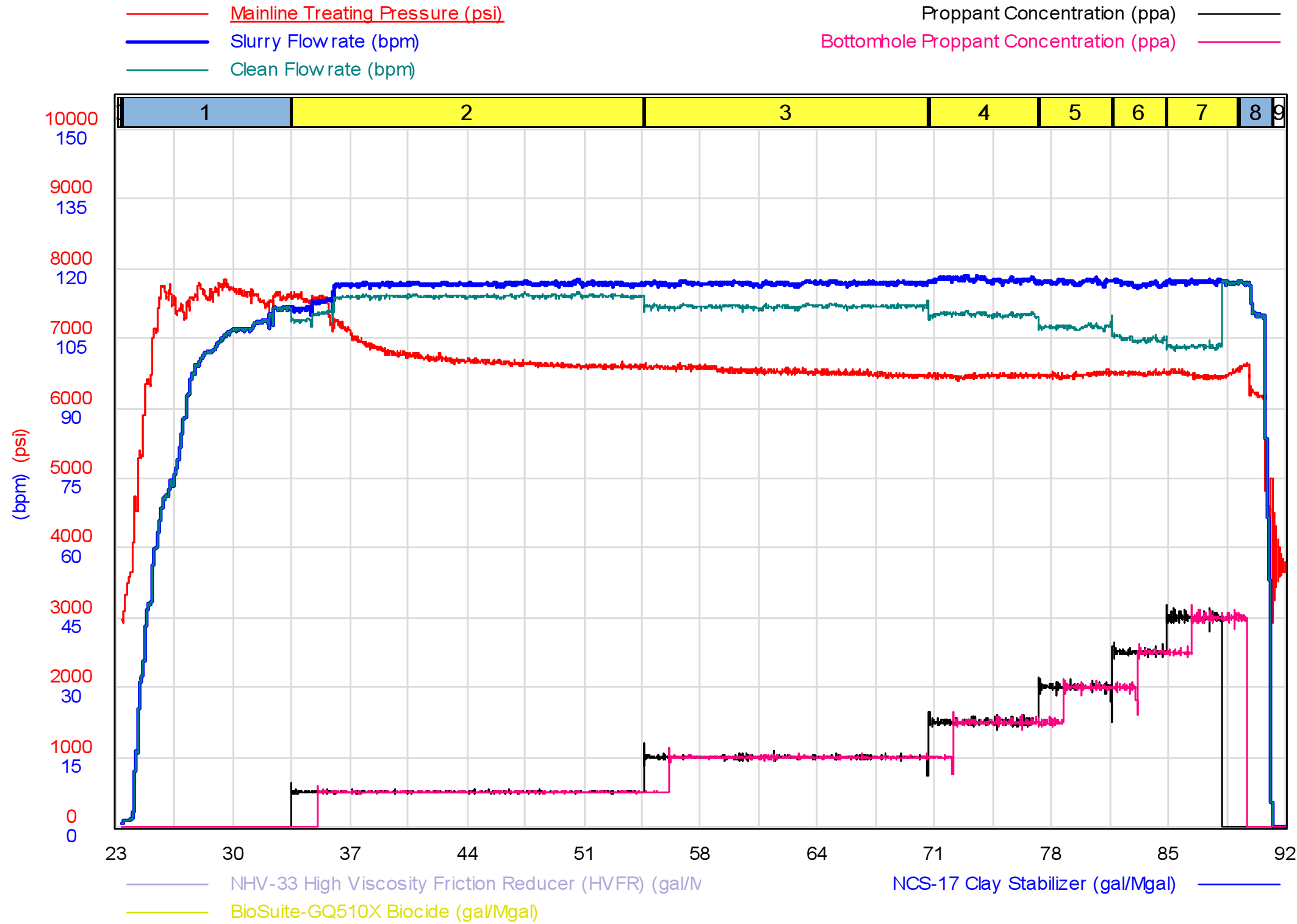


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	77.2	831		0.00	0
2	Slurry	119.1	2,350	40/70 Mesh	0.50	48,264
3	Slurry	119.6	1,887	40/70 Mesh	1.00	77,598
4	Slurry	119.8	709	40/70 Mesh	1.50	43,653
5	Slurry	120.0	468	40/70 Mesh	2.00	38,534
6	Slurry	119.9	329	40/70 Mesh	2.50	33,822
7	Slurry	119.9	388	40/70 Mesh	3.00	38,130
8	Flush	99.3	189		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,149			280,000

Top Perforation	7,604 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	7,741 (ft)	Clean Vol.	7,149 (bbls)
Clusters	8	40/70 Mesh	280,000 (lbs)
Total Perforations	32	Total Proppant	280,000 (lbs)
Avg. Rate	119.6 (bpm)		
Avg. Pressure	6,740 (psi)		
Max Rate	121.3 (bpm)		
Max Pressure	7,989 (psi)		

No NPT. Stage pumped by design. All proppant placed.

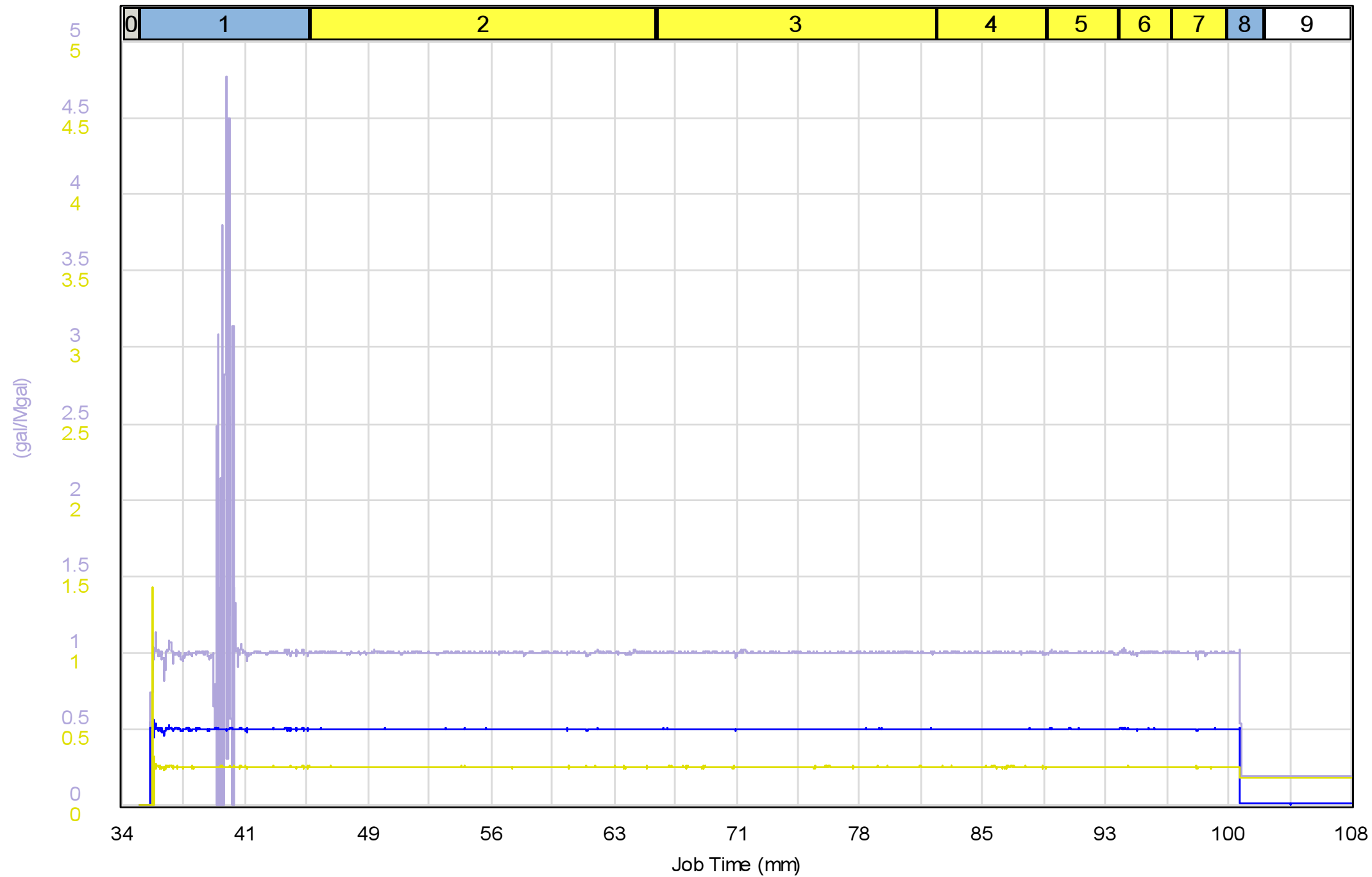
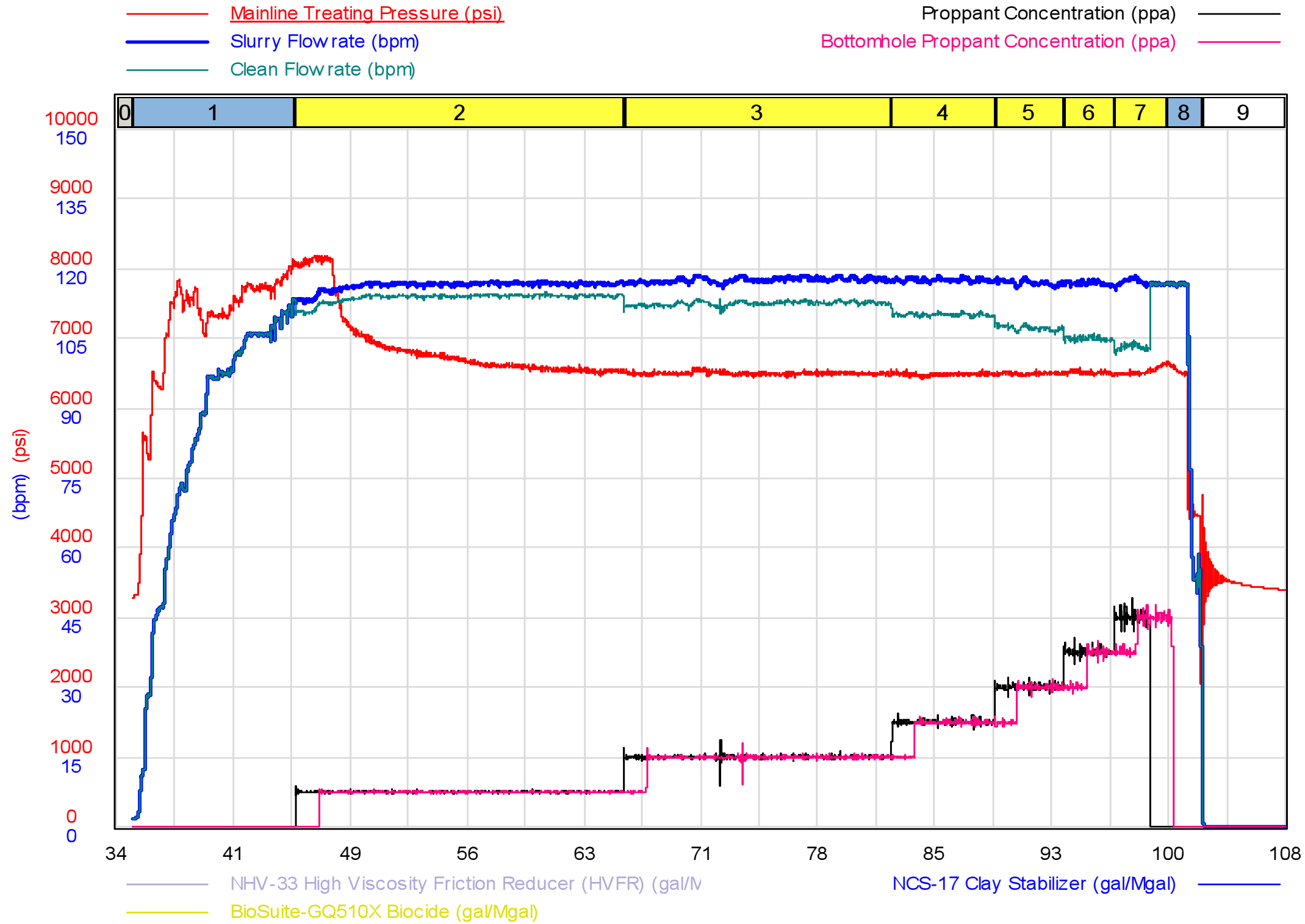


As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	84.0	830		0.00	0
2	Slurry	116.2	2,365	40/70 Mesh	0.50	47,813
3	Slurry	116.9	1,879	40/70 Mesh	1.00	75,977
4	Slurry	117.7	711	40/70 Mesh	1.50	43,217
5	Slurry	117.2	471	40/70 Mesh	2.00	38,094
6	Slurry	116.8	330	40/70 Mesh	2.50	33,427
7	Slurry	117.2	450	40/70 Mesh	3.00	41,832
8	Flush	100.3	206		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,241			280,360

Top Perforation	7,429 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	7,566 (ft)	Clean Vol.	7,241 (bbls)
Clusters	8	40/70 Mesh	280,360 (lbs)
Total Perforations	32	Total Proppant	280,360 (lbs)
Avg. Rate	116.9 (bpm)		
Avg. Pressure	6,594 (psi)		
Max Rate	118.4 (bpm)		
Max Pressure	7,622 (psi)		

Pumped as directed by customer representative.



As-Pumped Schedule

Stage #	Category	Slurry Rate (bpm)	Clean Vol. (bbls)	Prop. Type	Prop. Conc. (ppa)	Prop. Vol. (lbs)
1	Pad	81.1	835		0.00	0
2	Slurry	116.5	2,367	40/70 Mesh	0.50	49,814
3	Slurry	117.6	1,904	40/70 Mesh	1.00	80,218
4	Slurry	117.6	720	40/70 Mesh	1.50	45,491
5	Slurry	117.0	472	40/70 Mesh	2.00	39,857
6	Slurry	117.0	329	40/70 Mesh	2.50	34,734
7	Slurry	117.1	354	40/70 Mesh	3.00	30,045
8	Flush	91.9	218		0.00	0
9	Shut In	0.0	0		0.00	0
Totals			7,198			280,160

Top Perforation	7,254 (ft)	Produced Vol.	0 (bbls)
Bottom Perforation	7,391 (ft)	Clean Vol.	7,198 (bbls)
Clusters	8	40/70 Mesh	280,160 (lbs)
Total Perforations	32	Total Proppant	280,160 (lbs)
Avg. Rate	117.2 (bpm)		
Avg. Pressure	6,611 (psi)		
Max Rate	118.7 (bpm)		
Max Pressure	8,187 (psi)		

Pumped as directed by customer representative.