

COMPLETION REPORT

GMT Exploration

REDSTONE 6-65 24-36 1HN

Niobrara - 60 Intervals (1 - 60)

LOS Ticket #145891





CUSTOMER INFORMATION

CUSTOMER: GMT Exploration
CUSTOMER CONTACT:

LIBERTY INFORMATION

LIBERTY SALES CONTACT: Matt Schneider
LIBERTY OPERATIONS CONTACT: Jeff Brady
LIBERTY ENGINEERING CONTACT: Matthew Pullos
LIBERTY DISTRICT: *
LIBERTY CREW: Republic
REPORT PREPARED BY: Tyler Starn
Bryce Hardwick

WELL INFORMATION

WELL NAME: REDSTONE 6-65 24-36 1HN
COMPLETION DATE: June 30, 2022
PAD NAME: MARBLE/REDSTONE
FORMATION: Niobrara
API: 05-039-06703
AFE: 0
BASIN: Denver-Julesburg
FIELD/PROSPECT: Wildcat
STATE: Colorado
COUNTY: Elbert
WELL LOCATION: 06S 65W 24 NESW
BHST (°F): 215 F
LATITUDE: 39.510619
LONGITUDE: -104.61793

COMPLETION INFORMATION

WELL TYPE: Horizontal
COMPLETION TYPE: Cemented, Plug & Perf
NUMBER OF INTERVALS: 60
MAX PRESSURE: 9,500 psi
MAIN FLUID TYPE: LibertyFR
PROPPANT TYPES: 40/70 White 100 Mesh



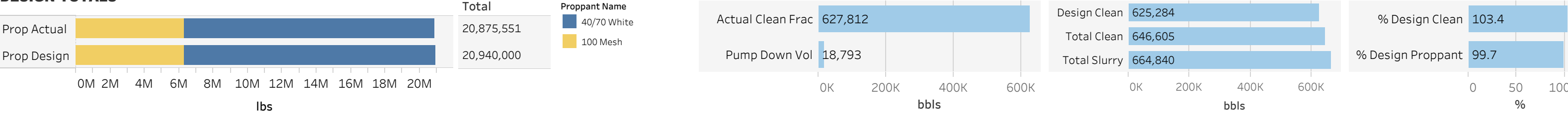
WELL COMPLETION SUMMARY

Operator Name	Customer Contact	Well Name	API	AFE	Bhst	Formation	Completion Type
GMT Exploration		REDSTONE 6-65 24-36 1HN	05-039-06703	0	215 F	Niobrara	Cemented, Plug & Perf

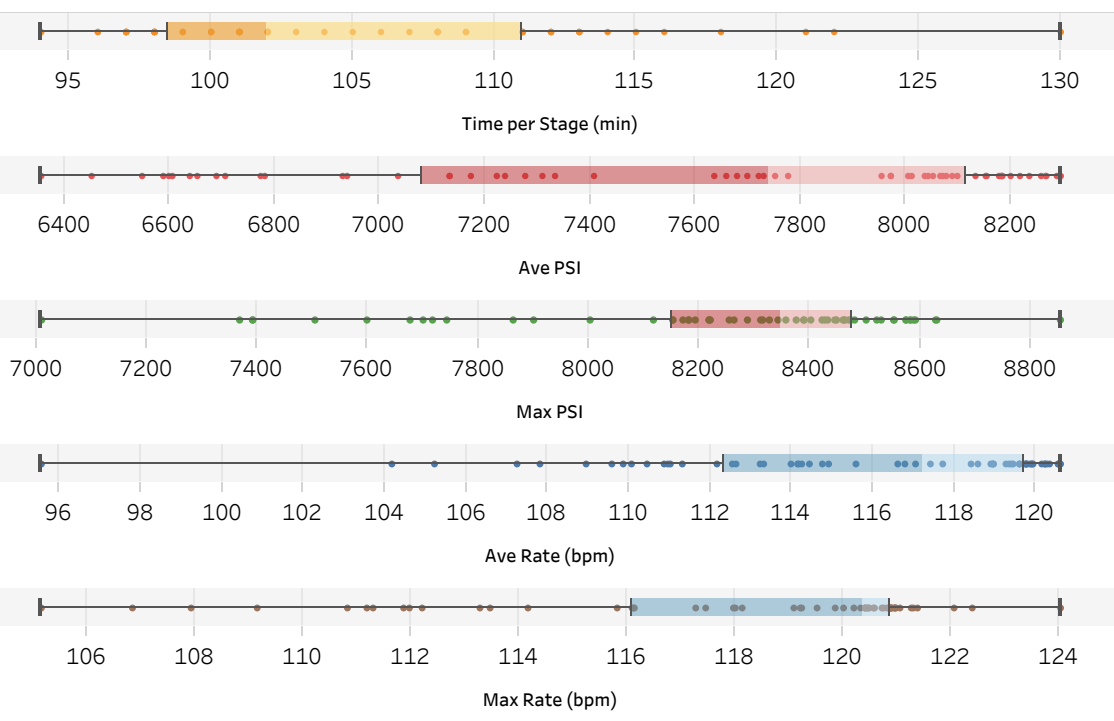
TIME SUMMARY

Start of Frac Time	End of Frac Time	Frac Pump Time	WL Pump Time (min)	MHHP	Customer/3rd Party NPT/DT	Crew LOS NPT/DT
6/17/2022 9:18:00 AM	6/30/2022 3:30:00 AM	6,297 min	1,246 min	1,984.56 MHHP*hr	2,293	448

DESIGN TOTALS



MAXIMA & AVERAGES



FLUID VOLUMES BY TYPE

Fluid Name	Fluid Vol
LibertyFR	626,738 bbls
Treated Water	18,486 bbls
HCL-7.5	1,381 bbls

CHEMICAL VOLUMES

Chemical Name	LBS or GALS	Total	Frac	Pump Down	Chem NC
ACI-97	gals	116	116	0	0
ASF-67	gals	116	116	0	0
BIOSUITE GQ510X	gals	6,765	6,765	0	0
FRP-1S	gals	27,176	27,176	0	0
HCL-28	gals	14,616	14,616	0	0
SPEARPOINT - WL	gals	449	449	0	0



CUSTOMER SURVEY

MARBLE/REDSTONE PAD

Republic Crew

OVERALL AVG: 98.8

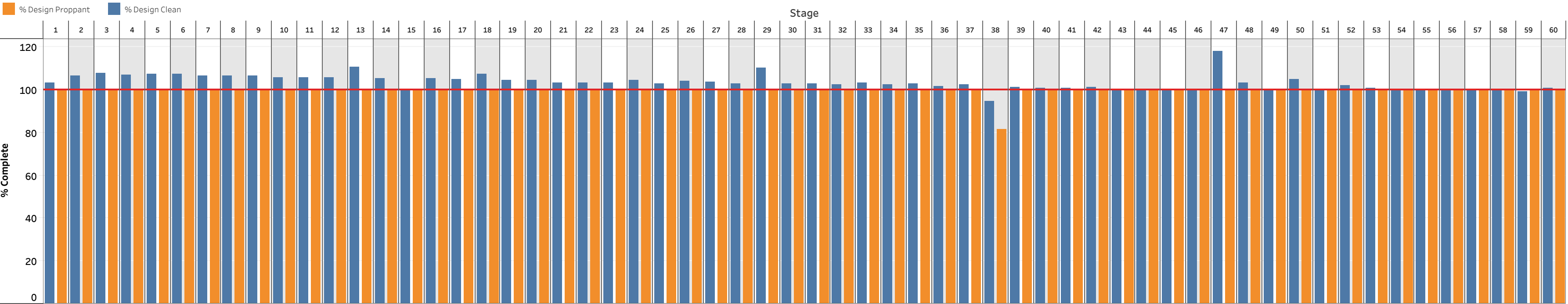
Customer Rep	Appearance	Correct Services	Crew Performance	Crew Preparedness	Equipment	Job Performance	Job Site	Materials	Professionalism	Promptness	Recommendations Provided	Safety Functions	Service Performance
Average Score	100	100	100	100	100	100	85	100	100	100	100	100	100
Sven Anderson	100	100	100	100	100	100	85	100	100	100	100	100	100

COMMENTS

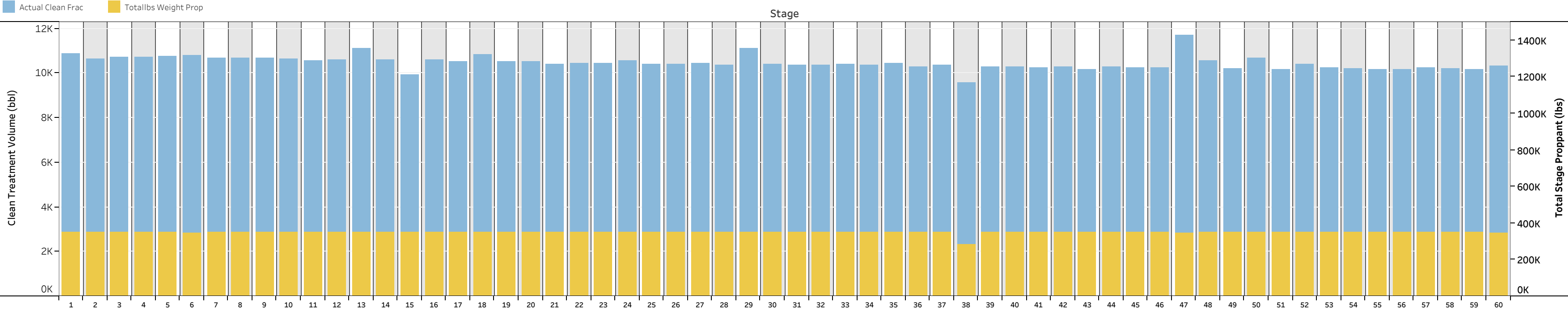
Customer Rep	
Sven Anderson	All frac performed well. NPT waiting on sand was an issue



JOB COMPLETION PERCENTAGE

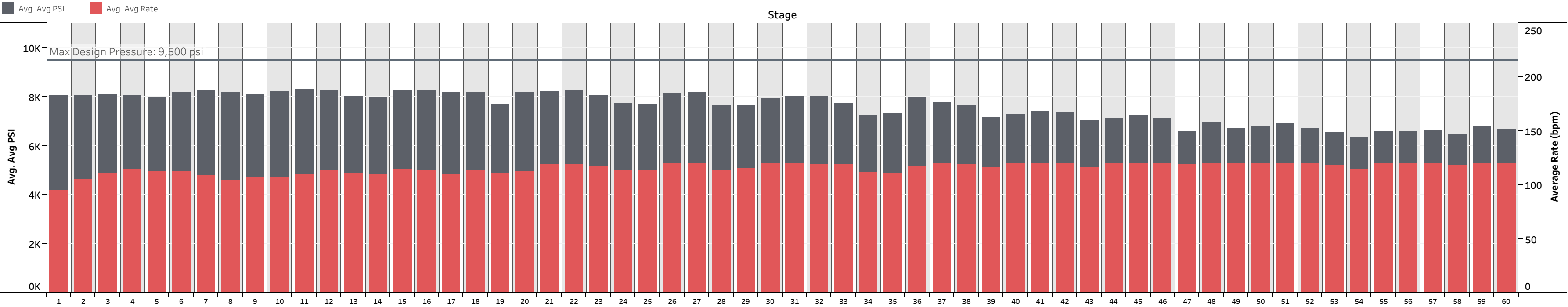


CLEAN TREATMENT VOLUME & PROPPANT MASS

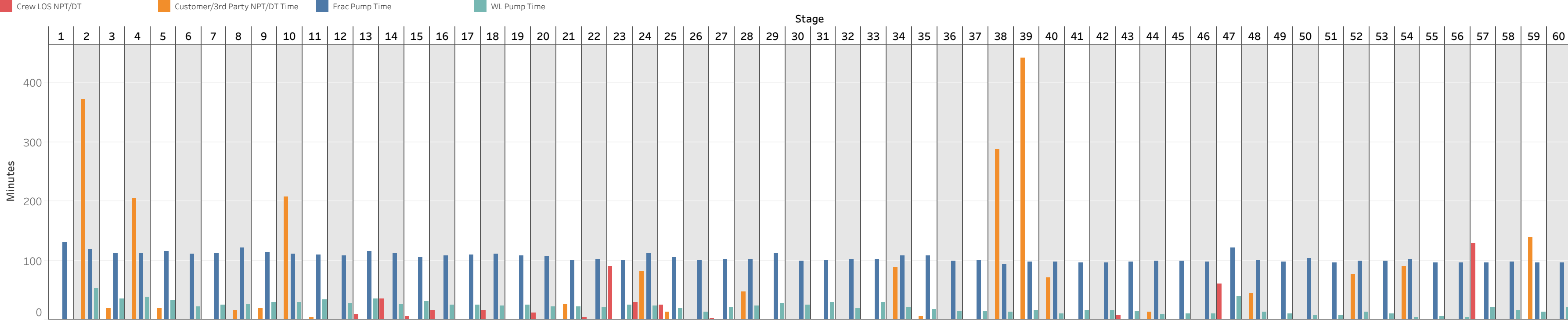




AVERAGE TREATING PRESSURE AND SLURRY RATE

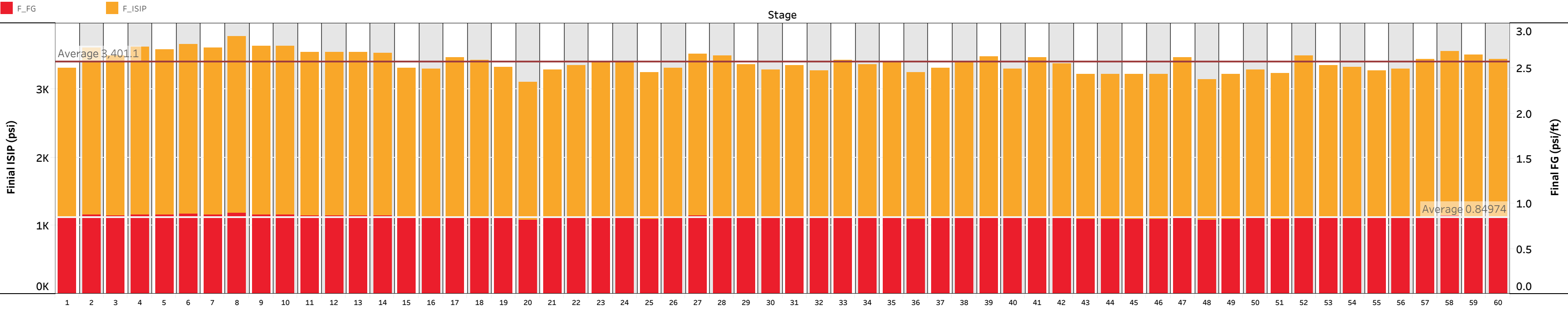


PUMP TIME SUMMARY PER STAGE

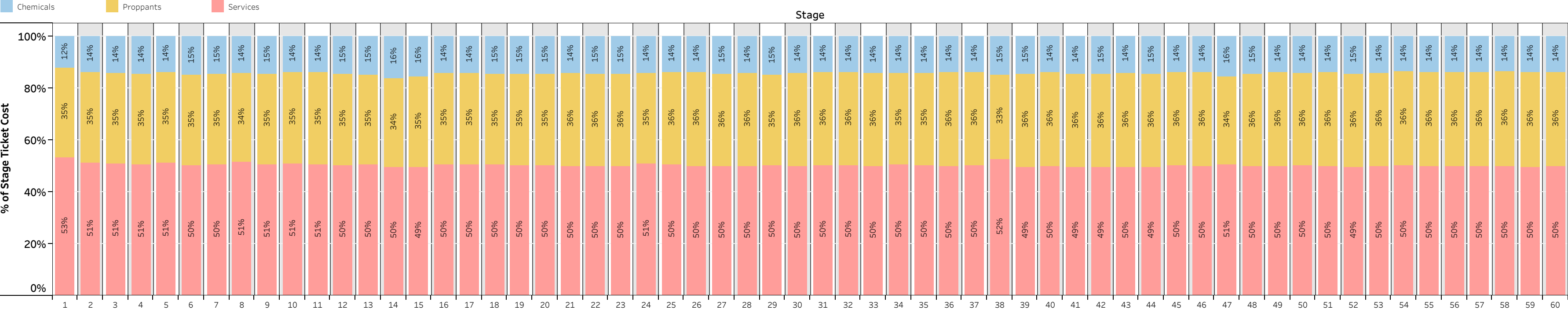




FINAL ISIP AND FRAC GRADIENT



STAGE TICKET BREAKDOWN



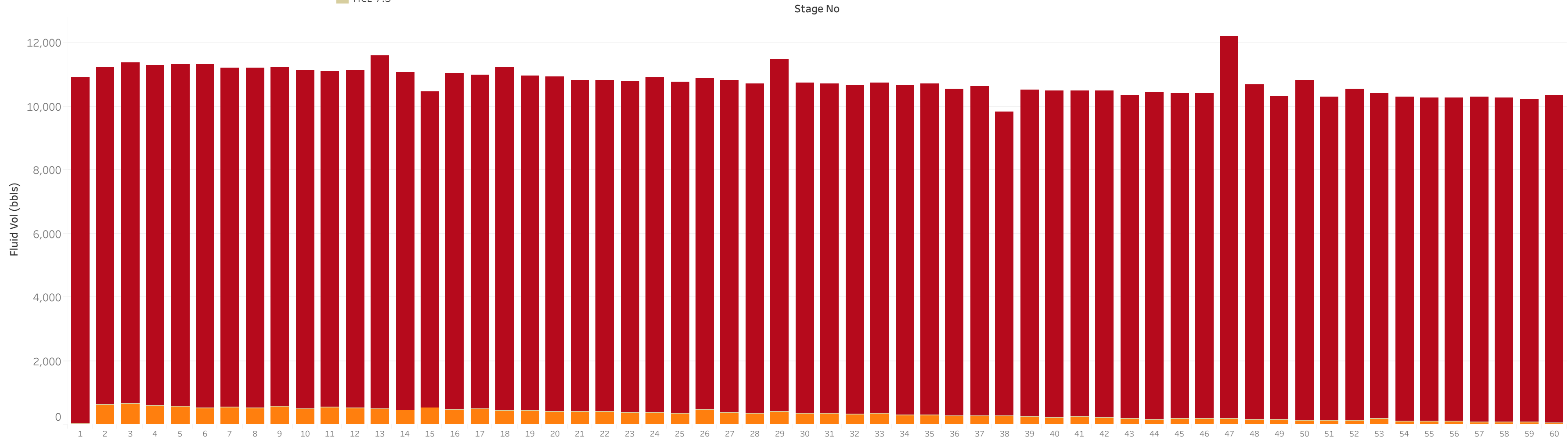


TREATMENT FLUID VOLUMES SUMMARY

					Fluids Pumped (bbls)		
	Total Well Fluid	Avg Stage Fluid	Max Stage Fluid	Min Stage Fluid	HCL-7.5	LibertyFR	Treated Water
Well Aggregates	646,605	10,777	12,1..	9,832	<div>Total: 1,381 Average: 24 Min: 24 Max: 24</div>	<div>Total: 626,738 Average: 10,446 Min: 9,557 Max: 11,995</div>	<div>Total: 18,486 Average: 313 Min: 34 Max: 632</div>

TREATMENT FLUID VOLUME BY STAGE

- LibertyFR
- Treated Water
- HCL-7.5





FLUID SUMMARY

Stage No	Treated Water	LibertyFR	HCL-7.5
	bbls	bbls	bbls
1		10,868	24
2	612	10,605	24
3	632	10,713	24
4	570	10,695	24
5	557	10,729	24
6	507	10,782	24
7	535	10,642	24
8	500	10,670	24
9	549	10,652	24
10	485	10,611	24
11	527	10,557	24
12	504	10,584	24
13	475	11,100	24
14	455	10,605	
15	529	9,940	
16	434	10,591	24
17	466	10,505	24
18	415	10,797	24
19	415	10,511	24
20	395	10,511	24
21	396	10,392	24
22	380	10,404	24
23	362	10,409	24
24	351	10,538	24
25	340	10,390	24
26	453	10,394	24
27	365	10,420	24
28	335	10,352	24
29	377	11,087	24
30	328	10,372	24
31	345	10,352	24
32	311	10,330	24
33	340	10,365	24
34	270	10,348	24
35	275	10,407	24
36	255	10,275	24
37	262	10,350	24
38	251	9,557	24
39	233	10,254	24
40	205	10,257	24
41	226	10,227	24
42	203	10,255	24
43	171	10,156	24
44	155	10,244	24
45	168	10,213	24
46	164	10,211	24
47	179	11,995	24
48	132	10,532	24
49	132	10,166	24
50	128	10,675	24
51	119	10,163	24
52	119	10,391	24
53	156	10,238	24
54	85	10,198	24
55	79	10,154	24
56	75	10,161	24
57	58	10,206	24
58	56	10,181	24
59	51	10,140	24
60	34	10,300	24



PROPPANT SUMMARY

40/70 White 100 Mesh

Stage No	Proppant Name																									
	40/70 White													100 Mesh												
1		244,380		244,300											104,780		104,700								-0.28%	0.08%
2																										0.02%
3		244,240		244,300												104,725		104,700								0.22%
4																										0.68%
5		244,250		244,300												104,930		104,700								
6																										
7		244,680		244,300												105,410		104,700								
8																										
9		244,225		244,300												104,605		104,700								
10																										
11		244,290		244,300												104,475		104,700								
12																										0.14%
13		244,220		244,300												104,615		104,700								
14																										0.00%
15		244,245		244,300												104,630		104,700								
16																										0.09%
17		244,350		244,300												104,790		104,700								
18																										
19		244,280		244,300												104,560		104,700								
20																										
21		244,180		244,300												104,520		104,700								
22																										
23		244,060		244,300												104,980		104,700								
24																										0.27%
25		244,340		244,300												104,740		104,700								
26																										0.04%
27		244,085		244,300												104,740		104,700								
28																										0.04%
29		244,720		244,300												104,730		104,700								
30																										0.03%
31		244,190		244,300												104,810		104,700								
32																										0.11%
33		244,220		244,300												104,720		104,700								
34																										0.02%
35		244,290		244,300												104,450		104,700								
36																										
37		244,990		244,300												104,780		104,700								
38																										0.08%
39		244,130		244,300												104,460		104,700								
40																										
41		244,370		244,300												104,690		104,700								
42																										0.06%
43		244,445		244,300												104,640		104,700								
44																										0.32%
45		244,230		244,300												104,710		104,700								
46																										0.06%
47		243,805		244,300												104,545		104,700								
48																										
49		244,370		244,300												104,720		104,700								
50																										0.02%
51		244,380		244,300												104,745		104,700								
52																										0.04%
53		244,060		244,300												104,970		104,700								
54																										0.09%
55		244,300		244,300												104,420		104,700								
56																										0.13%
57		244,130		244,300												105,050		104,700								
58																										
59		245,125		244,300												104,665		104,700								
60																										



PROPPANT SUMMARY

Stage No	Proppant Name											
	40/70 White				100 Mesh				Grand Total			
	Prop Actual	Prop Screw	Prop Design	Proppant Actual-Desi..	Prop Actual	Prop Screw	Prop Design	Proppant Actual-Desi..	Prop Actual	Prop Screw	Prop Design	Proppant Actual-Desi..
1	244,380	242,404	244,300	80	104,780	106,572	104,700	80	349,160	348,976	349,000	160
2	244,415	242,843	244,300	115	104,410	105,923	104,700	-290	348,825	348,766	349,000	-175
3	244,240	244,365	244,300	-60	104,725	105,179	104,700	25	348,965	349,544	349,000	-35
4	244,285	244,014	244,300	-15	104,780	105,200	104,700	80	349,065	349,214	349,000	65
5	244,250	242,634	244,300	-50	104,930	106,370	104,700	230	349,180	349,004	349,000	180
6	243,490	251,653	244,300	-810	104,590	105,347	104,700	-110	348,080	357,000	349,000	-920
7	244,680	243,779	244,300	380	105,410	105,333	104,700	710	350,090	349,112	349,000	1,090
8	245,295	248,019	244,300	995	104,700	105,322	104,700	0	349,995	353,341	349,000	995
9	244,225	243,486	244,300	-75	104,605	105,568	104,700	-95	348,830	349,054	349,000	-170
10	244,150	244,931	244,300	-150	104,670	104,080	104,700	-30	348,820	349,011	349,000	-180
11	244,290	243,421	244,300	-10	104,475	105,707	104,700	-225	348,765	349,128	349,000	-235
12	244,260	243,781	244,300	-40	104,845	105,438	104,700	145	349,105	349,219	349,000	105
13	244,220	243,097	244,300	-80	104,615	105,991	104,700	-85	348,835	349,088	349,000	-165
14	244,260	243,370	244,300	-40	104,700	105,564	104,700	0	348,960	348,935	349,000	-40
15	244,245	242,691	244,300	-55	104,630	106,254	104,700	-70	348,875	348,944	349,000	-125
16	244,340	248,009	244,300	40	104,690	108,678	104,700	-10	349,030	356,686	349,000	30
17	244,350	243,946	244,300	50	104,790	105,230	104,700	90	349,140	349,176	349,000	140
18	244,255	244,196	244,300	-45	104,780	104,905	104,700	80	349,035	349,100	349,000	35
19	244,280	243,927	244,300	-20	104,560	105,194	104,700	-140	348,840	349,121	349,000	-160
20	244,190	240,855	244,300	-110	104,580	108,378	104,700	-120	348,770	349,233	349,000	-230
21	244,180	257,132	244,300	-120	104,520	102,971	104,700	-180	348,700	360,103	349,000	-300
22	244,350	242,683	244,300	50	104,490	106,501	104,700	-210	348,840	349,184	349,000	-160
23	244,060	244,204	244,300	-240	104,980	104,992	104,700	280	349,040	349,197	349,000	40
24	244,580	244,545	244,300	280	104,590	104,552	104,700	-110	349,170	349,097	349,000	170
25	244,340	243,728	244,300	40	104,740	105,315	104,700	40	349,080	349,043	349,000	80
26	244,250	243,584	244,300	-50	104,640	105,476	104,700	-60	348,890	349,060	349,000	-110
27	244,085	243,474	244,300	-215	104,740	105,423	104,700	40	348,825	348,897	349,000	-175
28	244,330	243,796	244,300	30	104,620	105,278	104,700	-80	348,950	349,074	349,000	-50
29	244,720	245,919	244,300	420	104,730	102,902	104,700	30	349,450	348,821	349,000	450
30	244,200	243,615	244,300	-100	104,600	105,384	104,700	-100	348,800	349,000	349,000	-200
31	244,190	243,963	244,300	-110	104,810	105,499	104,700	110	349,000	349,462	349,000	0
32	244,310	244,387	244,300	10	104,690	105,300	104,700	-10	349,000	349,687	349,000	0
33	244,220	244,037	244,300	-80	104,720	104,877	104,700	20	348,940	348,914	349,000	-60
34	244,000	244,098	244,300	-300	104,925	104,756	104,700	225	348,925	348,854	349,000	-75
35	244,290	243,422	244,300	-10	104,450	105,560	104,700	-250	348,740	348,982	349,000	-260
36	244,290	243,469	244,300	-10	104,680	105,444	104,700	-20	348,970	348,914	349,000	-30
37	244,990	250,329	244,300	690	104,780	104,733	104,700	80	349,770	355,062	349,000	770
38	179,310	178,679	244,300	-64,990	104,680	105,242	104,700	-20	283,990	283,921	349,000	-65,010
39	244,130	244,429	244,300	-170	104,460	104,656	104,700	-240	348,590	349,085	349,000	-410
40	244,360	244,113	244,300	60	104,760	105,152	104,700	60	349,120	349,265	349,000	120
41	244,370	243,962	244,300	70	104,690	104,987	104,700	-10	349,060	348,949	349,000	60
42	244,140	242,569	244,300	-160	105,040	106,412	104,700	340	349,180	348,982	349,000	180
43	244,445	244,210	244,300	145	104,640	104,853	104,700	-60	349,085	349,063	349,000	85
44	244,300	244,375	244,300	0	104,760	105,149	104,700	60	349,060	349,523	349,000	60
45	244,230	243,759	244,300	-70	104,710	105,159	104,700	10	348,940	348,918	349,000	-60
46	244,260	244,210	244,300	-40	104,610	104,954	104,700	-90	348,870	349,164	349,000	-130
47	243,805	245,363	244,300	-495	104,545	103,792	104,700	-155	348,350	349,155	349,000	-650
48	244,330	244,153	244,300	30	104,630	104,986	104,700	-70	348,960	349,139	349,000	-40
49	244,370	244,560	244,300	70	104,720	104,924	104,700	20	349,090	349,484	349,000	90
50	244,360	244,120	244,300	60	104,750	105,067	104,700	50	349,110	349,187	349,000	110
51	244,380	244,031	244,300	80	104,745	105,279	104,700	45	349,125	349,310	349,000	125
52	244,510	243,761	244,300	210	104,406	105,223	104,700	-294	348,916	348,983	349,000	-84
53	244,060	244,188	244,300	-240	104,970	104,922	104,700	270	349,030	349,110	349,000	30
54	244,390	244,174	244,300	90	104,790	104,910	104,700	90	349,180	349,083	349,000	180
55	244,300	244,624	244,300	0	104,420	104,364	104,700	-280	348,720	348,988	349,000	-280
56	244,200	246,323	244,300	-100	104,840	104,747	104,700	140	349,040	351,070	349,000	40
57	244,130	244,133	244,300	-170	105,050	105,193	104,700	350	349,180	349,327	349,000	180
58	244,760	243,864	244,300	460	104,510	105,409	104,700	-190	349,270	349,273	349,000	270
59	245,125	244,316	244,300	825	104,665	104,658	104,700	-35	349,790	348,974	349,000	790
60	243,830	245,462	244,300	-470	104,610	103,470	104,700	-90	348,440	348,932	349,000	-560
Grand Total	14,593,580	14,605,182	14,658,000	-64,420	6,281,971	6,314,703	6,282,000	-29	20,875,551	20,919,885	20,940,000	-64,449



PRESSURE SUMMARY

Stage	Operational Pressures				Maxima & Averages				Final Shut In Pressures			Extended Final Shut-In Pressures																							
	Max Working PSI		Global Trips		PopOffSet L		PopOffSet H		Ave PSI		Max PSI		Ave Rate		Max Rate		F_ISIP		F_BHISIP		F_FG		F 5Min		F 10Min		F 15Min								
1		9,500		9,300		9,500		9,800		8,053		8,854		105		105		3,611		6,823		0.84													
2										8,089		8,389		115		120		3,624		7,013		0.86													
3		9,500		9,300		9,500		9,700				8,630		113		116		3,659		7,097		0.87													
4										7,972				113																					
5		9,500		9,300		9,500		9,700				8,592		104		111		3,781		7,129		0.88													
6										8,288		8,311		108		109				7,160		0.88													
7		9,500		9,300		9,500		9,700				8,574		113		112		3,635		7,068		0.87													
8										8,296		8,628		110		114		3,545		7,073		0.87													
9		9,500		9,300		9,500		9,700				8,530		113		117		3,528		6,834		0.84													
10										8,043		8,583		114		111		3,298		7,000		0.86													
11		9,500		9,300		9,500		9,700				8,343		119		112		3,429		6,859		0.84													
12										8,155		8,481		113		121		3,110		6,815		0.84													
13		9,500		9,300		9,500		9,700				8,376		114		121		3,355		6,951		0.85													
14										8,200		8,475		119		119		3,411		6,780		0.83													
15		9,500		9,300		9,500		9,700				8,575		120		120		3,316		7,059		0.86													
16										7,699		8,218		114		118		3,491		6,897		0.84													
17		9,500		9,300		9,500		9,700				8,390		120		121		3,282		6,894		0.84													
18										8,078		8,475		119		120		3,268		6,973		0.85													
19		9,500		9,300		9,500		9,700				8,218		111		113		3,360		6,940		0.85													
20										7,721		8,315		117		121		3,246		6,850		0.84													
21		9,500		9,300		9,500		9,700				8,171		119		124		3,420		7,014		0.86													
22										8,184		8,218		120		121		3,299		7,002		0.86													
23		9,500		9,300		9,500		9,700				8,117		120		121		3,371		6,762		0.83													
24										7,035		8,152		120		121		3,222		6,763		0.83													
25		9,500		9,300		9,500		9,700				7,009		121		121		3,465		7,008		0.86													
26										6,605		8,180		121		121		3,228		6,769		0.83													
27		9,500		9,300		9,500		9,700				8,181		120		120		3,240		6,780		0.83													
28										6,689		8,263		121		122		3,351		6,890		0.84													
29		9,500		9,300		9,500		9,700				7,368		114		120		3,271		6,811		0.83													
30										6,929		8,220		120		121		3,448		6,993		0.85													
31		9,500		9,300		9,500		9,700				7,504		118		120		3,501		7,047		0.86													
32										6,638				120		121																			
33		9,500		9,300		9,500		9,700						120		120																			
34										6,773				120		120																			
35																																			
36		9,500		9,300		9,500		9,700																											
37																																			
38		9,500		9,300		9,500		9,700																											
39																																			
40		9,500		9,300		9,500		9,700																											
41																																			
42		9,500		9,300		9,500		9,700																											
43																																			
44		9,500		9,300		9,500		9,700																											
45																																			
46		9,500		9,300		9,500		9,700																											
47																																			
48		9,500		9,300		9,500		9,700																											
49																																			
50		9,500		9,300		9,500		9,700																											
51																																			
52		9,500		9,300		9,500		9,700																											
53																																			
54		9,500		9,300		9,500		9,700																											
55																																			
56		9,500		9,300		9,500		9,700																											
57																																			
58		9,500		9,300		9,500		9,700																											
59																																			
60		9,500		9,300		9,500		9,700																											
	OK	5K	10K	OK	5K	10K	OK	5K	10K	OK	5K	10K	0	50	100	150	0	50	100	150	OK	2K	4K	OK	5K	10K	0.0	0.5	1.0	OK	2K	4K	0		0



PRESSURE SUMMARY

Stage	Max Working PSI	Global Trips	PopOffSet L	PopOffSet H	Ave Rate	Ave PSI	Max Rate	Max PSI	F_ISIP	F_BHISIP	F_FG	F 5Min	F 10Min	F 15Min
1	9,500	9,300	9,500	9,800	96	8,053	105	8,854	3,308	6,823	0.84			
2	9,500	9,300	9,500	9,700	105	8,067	107	8,446	3,611	7,126	0.88			
3	9,500	9,300	9,500	9,700	110	8,089	120	8,389	3,498	7,013	0.86			
4	9,500	9,300	9,500	9,700	115	8,071	119	8,428	3,624	7,140	0.88			
5	9,500	9,300	9,500	9,700	112	7,972	116	8,630	3,581	7,097	0.87			
6	9,500	9,300	9,500	9,700	113	8,153	118	8,471	3,659	7,176	0.88			
7	9,500	9,300	9,500	9,700	109	8,288	111	8,592	3,612	7,129	0.88			
8	9,500	9,300	9,500	9,700	104	8,178	108	8,589	3,781	7,299	0.90			
9	9,500	9,300	9,500	9,700	107	8,099	109	8,311	3,641	7,160	0.88			
10	9,500	9,300	9,500	9,700	108	8,218	112	8,463	3,635	7,155	0.88			
11	9,500	9,300	9,500	9,700	110	8,296	112	8,574	3,546	7,068	0.87			
12	9,500	9,300	9,500	9,700	113	8,258	116	8,522	3,545	7,068	0.87			
13	9,500	9,300	9,500	9,700	111	8,043	114	8,628	3,549	7,073	0.87			
14	9,500	9,300	9,500	9,700	110	7,973	111	8,287	3,528	7,053	0.87			
15	9,500	9,300	9,500	9,700	115	8,236	117	8,530	3,308	6,834	0.84			
16	9,500	9,300	9,500	9,700	113	8,267	116	8,463	3,298	6,825	0.84			
17	9,500	9,300	9,500	9,700	110	8,155	111	8,583	3,472	7,000	0.86			
18	9,500	9,300	9,500	9,700	114	8,185	119	8,502	3,429	6,958	0.85			
19	9,500	9,300	9,500	9,700	111	7,699	112	8,343	3,329	6,859	0.84			
20	9,500	9,300	9,500	9,700	113	8,182	118	8,449	3,110	6,641	0.81			
21	9,500	9,300	9,500	9,700	119	8,200	121	8,481	3,283	6,815	0.84			
22	9,500	9,300	9,500	9,700	119	8,268	121	8,553	3,355	6,888	0.84			
23	9,500	9,300	9,500	9,700	117	8,078	121	8,376	3,416	6,951	0.85			
24	9,500	9,300	9,500	9,700	114	7,752	116	8,193	3,411	6,947	0.85			
25	9,500	9,300	9,500	9,700	114	7,721	119	8,357	3,243	6,780	0.83			
26	9,500	9,300	9,500	9,700	120	8,134	120	8,433	3,316	6,853	0.84			
27	9,500	9,300	9,500	9,700	119	8,184	120	8,575	3,522	7,059	0.86			
28	9,500	9,300	9,500	9,700	114	7,659	117	8,153	3,491	7,028	0.86			
29	9,500	9,300	9,500	9,700	116	7,680	118	8,254	3,359	6,897	0.84			
30	9,500	9,300	9,500	9,700	120	7,955	121	8,423	3,282	6,820	0.83			
31	9,500	9,300	9,500	9,700	119	8,037	121	8,390	3,355	6,894	0.84			
32	9,500	9,300	9,500	9,700	119	8,012	120	8,402	3,268	6,807	0.83			
33	9,500	9,300	9,500	9,700	119	7,730	120	8,475	3,432	6,973	0.85			
34	9,500	9,300	9,500	9,700	111	7,238	113	7,900	3,360	6,902	0.84			
35	9,500	9,300	9,500	9,700	111	7,309	113	8,218	3,396	6,940	0.85			
36	9,500	9,300	9,500	9,700	117	8,006	120	8,581	3,246	6,789	0.83			
37	9,500	9,300	9,500	9,700	119	7,777	121	8,315	3,308	6,850	0.84			
38	9,500	9,300	9,500	9,700	119	7,637	121	8,002	3,420	6,961	0.85			
39	9,500	9,300	9,500	9,700	117	7,173	124	8,171	3,474	7,014	0.86			
40	9,500	9,300	9,500	9,700	120	7,277	121	7,717	3,299	6,837	0.84			
41	9,500	9,300	9,500	9,700	120	7,408	121	8,218	3,464	7,002	0.86			
42	9,500	9,300	9,500	9,700	120	7,333	120	8,327	3,371	6,911	0.85			
43	9,500	9,300	9,500	9,700	117	7,035	121	8,117	3,221	6,762	0.83			
44	9,500	9,300	9,500	9,700	120	7,133	121	8,552	3,222	6,766	0.83			
45	9,500	9,300	9,500	9,700	120	7,223	121	8,152	3,218	6,763	0.83			
46	9,500	9,300	9,500	9,700	121	7,133	121	7,863	3,219	6,764	0.83			
47	9,500	9,300	9,500	9,700	119	6,605	121	7,009	3,465	7,008	0.86			
48	9,500	9,300	9,500	9,700	121	6,938	121	8,460	3,144	6,685	0.82			
49	9,500	9,300	9,500	9,700	120	6,689	121	8,180	3,228	6,769	0.83			
50	9,500	9,300	9,500	9,700	120	6,781	121	7,743	3,289	6,829	0.84			
51	9,500	9,300	9,500	9,700	120	6,929	120	8,181	3,240	6,780	0.83			
52	9,500	9,300	9,500	9,700	121	6,706	121	7,700	3,487	7,026	0.86			
53	9,500	9,300	9,500	9,700	118	6,548	122	8,263	3,351	6,890	0.84			
54	9,500	9,300	9,500	9,700	114	6,356	121	7,391	3,321	6,860	0.84			
55	9,500	9,300	9,500	9,700	120	6,599	120	7,368	3,271	6,811	0.83			
56	9,500	9,300	9,500	9,700	120	6,588	121	7,392	3,306	6,849	0.84			
57	9,500	9,300	9,500	9,700	120	6,638	121	8,220	3,448	6,993	0.85			
58	9,500	9,300	9,500	9,700	118	6,452	122	7,677	3,552	7,099	0.87			
59	9,500	9,300	9,500	9,700	120	6,773	120	7,504	3,501	7,047	0.86			
60	9,500	9,300	9,500	9,700	120	6,653	120	7,598	3,447	6,993	0.85	3,387		
Min	9,500	9,300	9,500	9,700	96	6,356	105	7,009	3,110	6,641	0.81	3,387		
Max	9,500	9,300	9,500	9,800	121	8,296	124	8,854	3,781	7,299	0.90	3,387		
Average	9,500	9,300	9,500	9,702	115	7,580	118	8,232	3,401	6,935	0.85	3,387		

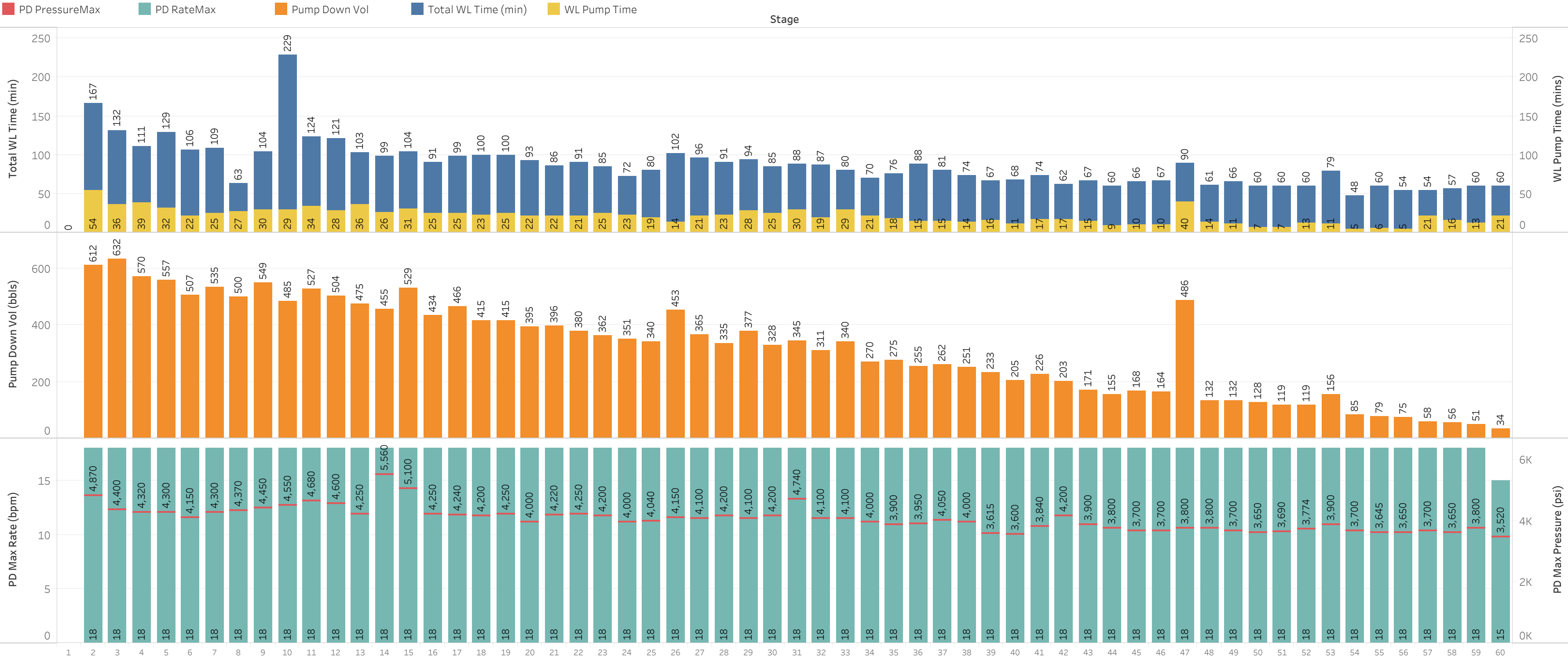


WELLBORE SUMMARY

Stage No	Top Shot Flush Vol bbl	Bottom Shot Flush Vol bbl	PERF TopShot	PERF BottomShot	Sum of PERF PlugDepth	PERF TotalNumShots	PERF ClusterLength	PERF NumPerfClusters	PERF PerfDiam
1	457	461	20,608	20,783	20,795	38	1	8	0.40
2	453	456	20,408	20,583	20,595	38	1	8	0.40
3	448	452	20,208	20,383	20,395	38	1	8	0.40
4	444	448	20,008	20,183	20,195	38	1	8	0.40
5	439	443	19,808	19,983	19,995	38	1	8	0.40
6	435	439	19,608	19,783	19,795	38	1	8	0.40
7	430	434	19,408	19,583	19,595	38	1	8	0.40
8	426	430	19,208	19,383	19,395	38	1	8	0.40
9	422	425	19,008	19,183	19,195	38	1	8	0.40
10	417	421	18,808	18,983	18,995	38	1	8	0.40
11	413	417	18,608	18,783	18,795	38	1	8	0.40
12	408	412	18,408	18,583	18,595	38	1	8	0.40
13	404	408	18,208	18,383	18,395	38	1	8	0.40
14	399	403	18,008	18,183	18,195	38	1	8	0.40
15	395	399	17,808	17,983	17,995	38	1	8	0.40
16	390	394	17,608	17,783	17,795	38	1	8	0.40
17	386	390	17,408	17,583	17,595	38	1	8	0.40
18	382	385	17,208	17,383	17,395	38	1	8	0.40
19	377	381	17,008	17,183	17,195	38	1	8	0.40
20	373	377	16,808	16,983	16,995	38	1	8	0.40
21	368	372	16,608	16,783	16,795	38	1	8	0.40
22	364	368	16,408	16,583	16,595	38	1	8	0.40
23	359	363	16,208	16,383	16,395	38	1	8	0.40
24	355	359	16,008	16,183	16,195	38	1	8	0.40
25	351	354	15,808	15,983	15,995	38	1	8	0.40
26	346	350	15,608	15,783	15,795	38	1	8	0.40
27	342	346	15,408	15,583	15,595	38	1	8	0.40
28	337	341	15,208	15,383	15,395	38	1	8	0.40
29	333	337	15,008	15,183	15,195	38	1	8	0.40
30	328	332	14,808	14,983	14,995	38	1	8	0.40
31	324	328	14,608	14,783	14,795	38	1	8	0.40
32	320	323	14,408	14,583	14,595	38	1	8	0.40
33	315	319	14,208	14,383	14,395	38	1	8	0.40
34	311	315	14,008	14,183	14,195	38	1	8	0.40
35	306	310	13,808	13,983	13,995	38	1	8	0.40
36	302	306	13,608	13,783	13,795	38	1	8	0.40
37	297	301	13,408	13,583	13,595	38	1	8	0.40
38	293	297	13,208	13,383	13,395	38	1	8	0.40
39	288	292	13,008	13,183	13,195	38	1	8	0.40
40	284	288	12,808	12,983	12,995	38	1	8	0.40
41	280	283	12,608	12,783	12,795	38	1	8	0.40
42	275	279	12,408	12,583	12,595	38	1	8	0.40
43	271	275	12,208	12,383	12,395	38	1	8	0.40
44	266	270	12,008	12,183	12,195	38	1	8	0.40
45	262	266	11,808	11,983	11,995	38	1	8	0.40
46	257	261	11,608	11,783	11,795	38	1	8	0.40
47	253	257	11,408	11,583	11,595	38	1	8	0.40
48	249	252	11,208	11,383	11,395	38	1	8	0.35
49	244	248	11,008	11,183	11,195	38	1	8	0.40
50	240	244	10,808	10,983	10,995	32	1	8	0.35
51	235	239	10,608	10,783	10,795	32	1	8	0.35
52	231	235	10,408	10,583	10,595	38	1	8	0.40
53	226	230	10,208	10,383	10,395	38	1	8	0.40
54	222	226	10,008	10,183	10,195	38	1	8	0.40
55	218	221	9,808	9,983	9,995	38	1	8	0.40
56	213	217	9,608	9,783	9,795	38	1	8	0.40
57	209	213	9,408	9,583	9,595	38	1	8	0.40
58	204	208	9,208	9,383	9,395	38	1	8	0.40
59	200	204	9,008	9,183	9,195	38	1	8	0.40
60	195	199	8,808	8,983	8,995	38	1	8	0.40



PUMPDOWN SUMMARY





PUMPDOWN SUMMARY

Stage	PERF Company	PD Company	PD OpenWHTime	PD OpenWHPSI	PD StartTime	PD EndTime	PD CloseWHTime	WL Pump Time (min)	Total WL Time (min)	PD CloseW HPSI	PD PressureMax	PD RateMax	PD Freshbbbls	PD Brinebbbls	PD Total Vol (bbbls)
1	LBRT	LBRT	Null	Null	Null	Null	Null	0	Null	Null	Null	Null	Null	Null	
2	LBRT	LBRT	6/17/2022 5:25:00 PM	2,820	6/17/2022 5:55:00 PM	6/17/2022 6:49:00 PM	6/17/2022 8:12:00 PM	54	167	2,850	4,870	18	612	Null	612
3	LBRT	LBRT	6/18/2022 12:10:00 AM	3,020	6/18/2022 12:50:00 AM	6/18/2022 1:26:00 AM	6/18/2022 2:22:00 AM	36	132	3,000	4,400	18	632	Null	632
4	LBRT	LBRT	6/18/2022 5:10:00 AM	3,238	6/18/2022 5:37:00 AM	6/18/2022 6:16:00 AM	6/18/2022 7:01:00 AM	39	111	2,950	4,320	18	570	Null	570
5	LBRT	LBRT	6/18/2022 12:51:00 PM	3,333	6/18/2022 1:27:00 PM	6/18/2022 1:59:00 PM	6/18/2022 3:00:00 PM	32	129	3,150	4,300	18	557	Null	557
6	LBRT	LBRT	6/18/2022 5:48:00 PM	3,380	6/18/2022 6:21:00 PM	6/18/2022 6:43:00 PM	6/18/2022 7:34:00 PM	22	106	3,140	4,150	18	507	Null	507
7	LBRT	LBRT	6/18/2022 10:25:00 PM	3,370	6/18/2022 10:55:00 PM	6/18/2022 11:20:00 PM	6/19/2022 12:14:00 AM	25	109	3,180	4,300	18	535	Null	535
8	LBRT	LBRT	6/19/2022 3:12:00 AM	3,250	6/19/2022 2:58:00 AM	6/19/2022 3:25:00 AM	6/19/2022 4:15:00 AM	27	63	3,066	4,370	18	500	Null	500
9	LBRT	LBRT	6/19/2022 7:41:00 AM	3,520	6/19/2022 8:06:00 AM	6/19/2022 8:36:00 AM	6/19/2022 9:25:00 AM	30	104	3,130	4,450	18	549	Null	549
10	LBRT	LBRT	6/19/2022 2:02:00 PM	2,850	6/19/2022 4:26:00 PM	6/19/2022 4:55:00 PM	6/19/2022 5:51:00 PM	29	229	2,850	4,550	18	485	Null	485
11	LBRT	LBRT	6/19/2022 8:18:00 PM	3,290	6/19/2022 8:43:00 PM	6/19/2022 9:17:00 PM	6/19/2022 10:22:00 PM	34	124	2,970	4,680	18	527	Null	527
12	LBRT	LBRT	6/20/2022 1:09:00 AM	3,220	6/20/2022 1:55:00 AM	6/20/2022 2:23:00 AM	6/20/2022 3:10:00 AM	28	121	3,120	4,600	18	504	Null	504
13	LBRT	LBRT	6/20/2022 5:42:00 AM	3,130	6/20/2022 6:10:00 AM	6/20/2022 6:46:00 AM	6/20/2022 7:25:00 AM	36	103	2,890	4,250	18	475	Null	475
14	LBRT	LBRT	6/20/2022 10:05:00 AM	3,200	6/20/2022 10:32:00 AM	6/20/2022 10:58:00 AM	6/20/2022 11:44:00 AM	26	99	3,000	5,560	18	455	Null	455
15	LBRT	LBRT	6/20/2022 3:15:00 PM	3,100	6/20/2022 3:47:00 PM	6/20/2022 4:18:00 PM	6/20/2022 4:59:00 PM	31	104	3,100	5,100	18	529	Null	529
16	LBRT	LBRT	6/20/2022 8:39:00 PM	3,150	6/20/2022 8:57:00 PM	6/20/2022 9:22:00 PM	6/20/2022 10:10:00 PM	25	91	3,010	4,250	18	434	Null	434
17	LBRT	LBRT	6/21/2022 1:35:00 AM	3,225	6/21/2022 1:59:00 AM	6/21/2022 2:24:00 AM	6/21/2022 3:14:00 AM	25	99	3,010	4,240	18	466	Null	466
18	LBRT	LBRT	6/21/2022 5:50:00 AM	3,020	6/21/2022 6:20:00 AM	6/21/2022 6:43:00 AM	6/21/2022 7:30:00 AM	23	100	3,050	4,200	18	415	Null	415
19	LBRT	LBRT	6/21/2022 10:45:00 AM	3,120	6/21/2022 11:15:00 AM	6/21/2022 11:40:00 AM	6/21/2022 12:25:00 PM	25	100	3,000	4,250	18	415	Null	415
20	LBRT	LBRT	6/21/2022 2:52:00 PM	3,170	6/21/2022 3:17:00 PM	6/21/2022 3:39:00 PM	6/21/2022 4:25:00 PM	22	93	3,010	4,000	18	395	Null	395
21	LBRT	LBRT	6/21/2022 7:23:00 PM	3,180	6/21/2022 7:47:00 PM	6/21/2022 8:09:00 PM	6/21/2022 8:49:00 PM	22	86	3,160	4,220	18	396	Null	396
22	LBRT	LBRT	6/22/2022 12:23:00 AM	3,210	6/22/2022 12:50:00 AM	6/22/2022 1:11:00 AM	6/22/2022 1:54:00 AM	21	91	3,050	4,250	18	380	Null	380
23	LBRT	LBRT	6/22/2022 4:20:00 AM	3,200	6/22/2022 4:35:00 AM	6/22/2022 5:00:00 AM	6/22/2022 5:45:00 AM	25	85	3,100	4,200	18	362	Null	362
24	LBRT	LBRT	6/22/2022 11:09:00 AM	3,220	6/22/2022 11:31:00 AM	6/22/2022 11:54:00 AM	6/22/2022 12:21:00 PM	23	72	3,150	4,000	18	351	Null	351
25	LBRT	LBRT	6/22/2022 3:50:00 PM	3,130	6/22/2022 4:18:00 PM	6/22/2022 4:37:00 PM	6/22/2022 5:10:00 PM	19	80	3,000	4,040	18	340	Null	340
26	LBRT	LBRT	6/22/2022 8:38:00 PM	3,120	6/22/2022 9:12:00 PM	6/22/2022 9:26:00 PM	6/22/2022 10:20:00 PM	14	102	3,000	4,150	18	453	Null	453
27	LBRT	LBRT	6/23/2022 1:40:00 AM	3,105	6/23/2022 2:06:00 AM	6/23/2022 2:27:00 AM	6/23/2022 3:16:00 AM	21	96	2,900	4,100	18	365	Null	365
28	LBRT	LBRT	6/23/2022 5:37:00 AM	3,180	6/23/2022 6:07:00 AM	6/23/2022 6:30:00 AM	6/23/2022 7:08:00 AM	23	91	3,100	4,200	18	335	Null	335
29	LBRT	LBRT	6/23/2022 11:06:00 AM	3,200	6/23/2022 11:37:00 AM	6/23/2022 12:05:00 PM	6/23/2022 12:40:00 PM	28	94	3,200	4,100	18	377	Null	377
30	LBRT	LBRT	6/23/2022 2:50:00 PM	3,250	6/23/2022 3:18:00 PM	6/23/2022 3:43:00 PM	6/23/2022 4:15:00 PM	25	85	3,180	4,200	18	328	Null	328
31	LBRT	LBRT	6/23/2022 6:54:00 PM	3,080	6/23/2022 7:20:00 PM	6/23/2022 7:50:00 PM	6/23/2022 8:22:00 PM	30	88	3,000	4,740	18	345	Null	345
32	LBRT	LBRT	6/23/2022 10:34:00 PM	3,210	6/23/2022 11:00:00 PM	6/23/2022 11:19:00 PM	6/24/2022 12:01:00 AM	19	87	3,010	4,100	18	311	Null	311
33	LBRT	LBRT	6/24/2022 2:40:00 AM	3,250	6/24/2022 3:00:00 AM	6/24/2022 3:29:00 AM	6/24/2022 4:00:00 AM	29	80	3,100	4,100	18	340	Null	340
34	LBRT	LBRT	6/24/2022 6:34:00 AM	3,200	6/24/2022 6:57:00 AM	6/24/2022 7:18:00 AM	6/24/2022 7:44:00 AM	21	70	3,150	4,000	18	270	Null	270
35	LBRT	LBRT	6/24/2022 11:51:00 AM	3,222	6/24/2022 12:12:00 PM	6/24/2022 12:30:00 PM	6/24/2022 1:07:00 PM	18	76	3,100	3,900	18	275	Null	275
36	LBRT	LBRT	6/24/2022 3:58:00 PM	3,180	6/24/2022 4:25:00 PM	6/24/2022 4:40:00 PM	6/24/2022 5:26:00 PM	15	88	2,900	3,950	18	255	Null	255
37	LBRT	LBRT	6/24/2022 7:42:00 PM	3,210	6/24/2022 8:08:00 PM	6/24/2022 8:23:00 PM	6/24/2022 9:03:00 PM	15	81	3,100	4,050	18	262	Null	262
38	LBRT	LBRT	6/24/2022 11:23:00 PM	3,150	6/24/2022 11:47:00 PM	6/25/2022 12:01:00 AM	6/25/2022 12:37:00 AM	14	74	3,010	4,000	18	251	Null	251
39	LBRT	LBRT	6/25/2022 11:55:00 AM	2,870	6/25/2022 12:18:00 PM	6/25/2022 12:34:00 PM	6/25/2022 1:02:00 PM	16	67	2,880	3,615	18	233	Null	233
40	LBRT	LBRT	6/25/2022 3:15:00 PM	3,132	6/25/2022 3:40:00 PM	6/25/2022 3:51:00 PM	6/25/2022 4:23:00 PM	11	68	3,020	3,600	18	205	Null	205
41	LBRT	LBRT	6/26/2022 3:21:00 AM	2,830	6/26/2022 3:47:00 AM	6/26/2022 4:04:00 AM	6/26/2022 4:35:00 AM	17	74	2,800	3,840	18	226	Null	226
42	LBRT	LBRT	6/26/2022 6:56:00 AM	3,150	6/26/2022 7:18:00 AM	6/26/2022 7:35:00 AM	6/26/2022 7:58:00 AM	17	62	3,100	4,200	18	203	Null	203
43	LBRT	LBRT	6/26/2022 10:16:00 AM	3,100	6/26/2022 10:37:00 AM	6/26/2022 10:52:00 AM	6/26/2022 11:23:00 AM	15	67	3,050	3,900	18	171	Null	171
44	LBRT	LBRT	6/26/2022 2:20:00 PM	3,120	6/26/2022 2:44:00 PM	6/26/2022 2:53:00 PM	6/26/2022 3:20:00 PM	9	60	3,100	3,800	18	155	Null	155
45	LBRT	LBRT	6/26/2022 6:22:00 PM	3,100	6/26/2022 6:47:00 PM	6/26/2022 6:57:00 PM	6/26/2022 7:28:00 PM	10	66	2,980	3,700	18	168	Null	168
46	LBRT	LBRT	6/26/2022 10:05:00 PM	3,100	6/26/2022 10:28:00 PM	6/26/2022 10:38:00 PM	6/26/2022 11:12:00 PM	10	67	2,990	3,700	18	164	Null	164
47	LBRT	LBRT	6/27/2022 7:22:00 AM	3,050	6/27/2022 7:44:00 AM	6/27/2022 8:24:00 AM	6/27/2022 8:52:00 AM	40	90	2,850	3,800	18	179	Null	486
48	LBRT	LBRT	6/27/2022 12:09:00 PM	2,950	6/27/2022 12:32:00 PM	6/27/2022 12:46:00 PM	6/27/2022 1:10:00 PM	14	61	3,000	3,800	18	132	Null	132
49	LBRT	LBRT	6/27/2022 4:29:00 PM	3,100	6/27/2022 4:48:00 PM	6/27/2022 4:59:00 PM	6/27/2022 5:35:00 PM	11	66	3,000	3,700	18	132	Null	132
50	LBRT	LBRT	6/27/2022 7:59:00 PM	3,120	6/27/2022 8:22:00 PM	6/27/2022 8:29:00 PM	6/27/2022 8:59:00 PM	7	60	3,050	3,650	18	128	Null	128
51	LBRT	LBRT	6/27/2022 11:45:00 PM	3,125	6/28/2022 12:07:00 AM	6/28/2022 12:14:00 AM	6/28/2022 12:45:00 AM	7	60	3,020	3,690	18	119	Null	119
52	LBRT	LBRT	6/28/2022 3:21:00 AM	3,150	6/28/2022 3:45:00 AM	6/28/2022 3:58:00 AM	6/28/2022 4:21:00 AM	13	60	3,100	3,774	18	119	Null	119
53	LBRT	LBRT	6/28/2022 11:16:00 AM	3,100	6/28/2022 12:06:00 PM	6/28/2022 12:17:00 PM	6/28/2022 12:35:00 PM	11	79	3,050	3,900	18	156	Null	156
54	LBRT	LBRT	6/28/2022 2:44:00 PM	3,050	6/28/2022 3:00:00 PM	6/28/2022 3:05:00 PM	6/28/2022 3:32:00 PM	5	48	3,020	3,700	18	85	Null	85
55	LBRT	LBRT	6/28/2022 7:52:00 PM	3,210	6/28/2022 8:17:00 PM	6/28/2022 8:23:00 PM	6/28/2022 8:52:00 PM	6	60	3,090	3,645	18	79	Null	79
56	LBRT	LBRT	6/28/2022 11:36:00 PM	3,160	6/28/2022 11:53:00 PM	6/28/2022 11:58:00 PM	6/29/2022 12:30:00 AM	5	54	3,050	3,650	18	75	Null	75
57	LBRT	LBRT	6/29/2022 3:28:00 AM	3,100	6/29/2022 3:45:00 AM	6/29/2022 4:06:00 AM	6/29/2022 4:22:00 AM	21	54	3,000	3,700	18	58	Null	58
58	LBRT	LBRT	6/29/2022 9:45:00 AM	3,175	6/29/2022 10:00:00 AM	6/29/2022 10:16:00 AM	6/29/2022 10:42:00 AM	16	57	3,100	3,650	18	56	Null	56
59	LBRT	LBRT	6/29/2022 2:00:00 PM	3,250	6/29/2022 2:20:00 PM	6/29/2022 2:33:00 PM	6/29/2022 3:00:00 PM	13	60	3,060	3,800	18	51	Null	51
60	LBRT	LBRT	6/30/2022 12:11:00 AM	3,320	6/30/2022 12:26:00 AM	6/30/2022 12:47:00 AM	6/30/2022 1:11:00 AM	21	60	3,120	3,520	15	34	Null	34



CHEMICAL SUMMARY
(Please Note Independent Axis)

Stage	ACI-97	ASF-67	BIOSUITE GQ510X	FRP-1S	HCL-28	SPEARPOINT - WL
	gals	gals	gals	gals	gals	gals
1	2	2	114	463	252	
2	2	2		470	252	
3	2	2	118	493	252	
4	2	2	123	478	252	
5	2	2	110	441	252	
6	2	2	120	472	252	
7	2	2	114	470	252	
8	2	2	123	460	252	
9	2	2	115	479	252	
10	2	2	118	468	252	
11	2	2	117	465	252	
12	2	2	115	464	252	
13	2	2	109	465	252	
14	2	2	114	496	252	
15	2	2	125	439	252	
16	2	2	114	434	252	
17	2	2	112	459	252	
18	2	2	113	439	252	
19	2	2	108	458	252	
20	2	2	111	456	252	
21	2	2	113	449	252	
22	2	2	107	429	252	
23	2	2	110	530	252	
24	2	2	131	468	252	
25	2	2	112	447	252	
26	2	2	112	465	252	
27	2	2	108	428	252	
28	2	2	107	427	252	
29	2	2	105	428	252	
30	2	2	111	435	252	
31	2	2			252	
32	2	2			252	
33	2	2			252	
34	2	2			252	
35	2	2			252	
36	2	2			252	
37	2	2			252	
38	2	2			252	
39	2	2			252	
40	2	2			252	
41	2	2			252	
42	2	2			252	
43	2	2			252	
44	2	2			252	
45	2	2			252	
46	2	2			252	
47	2	2			252	
48	2	2			252	
49	2	2			252	
50	2	2			252	
51	2	2			252	
52	2	2			252	
53	2	2			252	
54	2	2			252	
55	2	2			252	
56	2	2			252	
57	2	2			252	
58	2	2			252	
59	2	2			252	
60	2	2			252	
	0.0 0.5 1.0 1.5 2.0	0.0 0.5 1.0 1.5 2.0	0 50 100 150	0 100 200 300 400 500 600	0 50 100 150 200 250	0 50 100 150 200 250



CHEMICAL SUMMARY TABLE

		ACI-97			ASF-67			BIOSUITE GQ510X			FRP-1S			HCL-28			SPEARPOINT - WL		
		gals			gals			gals			gals			gals			gals		
T O T A L	Frac	116			116			6,765			27,176			14,616			449		
	Pump Down																		
	Chem Design	116			116			6,762			27,171			14,616			449		
	Chem NC																		
	Chem Difference	0			0			3			5			0			0		
Total Chem Varian...		0.0%			0.0%			0.0%			0.0%			0.0%			0.0%		
Stage		ACI-97			ASF-67			BIOSUITE GQ510X			FRP-1S			HCL-28			SPEARPOINT - WL		
		Frac	Pump Down	Chem NC	Frac	Pump Down	Chem NC	Frac	Pump Down	Chem NC	Frac	Pump Down	Chem NC	Frac	Pump Down	Chem NC	Frac	Pump Down	Chem NC
1	2				2			114			387			252					
2	2				2			104			463			252					
3	2				2			114			472			252					
4	2				2			118			470			252					
5	2				2			115			445			252					
6	2				2			123			493			252					
7	2				2			120			476			252					
8	2				2			110			478			252					
9	2				2			120			476			252					
10	2				2			116			441			252					
11	2				2			114			447			252					
12	2				2			117			472			252					
13	2				2			123			495			252					
14								116			470						217		
15								106			425						232		
16	2				2			115			460			252					
17	2				2			115			466			252					
18	2				2			118			479			252					
19	2				2			116			470			252					
20	2				2			117			468			252					
21	2				2			116			448			252					
22	2				2			115			465			252					
23	2				2			115			465			252					
24	2				2			109			464			252					
25	2				2			109			436			252					
26	2				2			114			437			252					
27	2				2			112			465			252					
28	2				2			114			457			252					
29	2				2			125			496			252					
30	2				2			114			439			252					
31	2				2			110			437			252					
32	2				2			112			434			252					
33	2				2			114			456			252					
34	2				2			113			459			252					
35	2				2			115			463			252					
36	2				2			108			439			252					
37	2				2			109			438			252					
38	2				2			105			417			252					
39	2				2			111			458			252					
40	2				2			106			440			252					
41	2				2			110			456			252					
42	2				2			113			455			252					
43	2				2			111			449			252					
44	2				2			107			471			252					
45	2				2			108			429			252					
46	2				2			110			430			252					
47	2				2			131			530			252					
48	2				2			112			468			252					
49	2				2			109			426			252					
50	2				2			112			447			252					
51	2				2			108			427			252					
52	2				2			112			465			252					
53	2				2			109			454			252					
54	2				2			108			428			252					
55	2				2			107			426			252					
56	2				2			107			427			252					
57	2				2			109			430			252					
58	2				2			105			428			252					
59	2				2			109			429			252					
60	2				2			111			435			252					



BALL HIT INFO
(Please Note Independent Axis)

Stage No	Ball Hit Vol (bbls)	Ball Rate (bpm)	Ball Initial (psi)	Ball Max (psi)	Ball Final (psi)	BallHit Diff (psi)
1						
2	<div><div></div></div> 446	<div><div></div></div> 15	<div><div></div></div> 3,584	<div><div></div></div> 4,340	<div><div></div></div> 4,246	<div><div></div></div> 721
3	<div><div></div></div>					
4	<div><div></div></div> 407	<div><div></div></div> 15	<div><div></div></div> 3,533	<div><div></div></div> 3,580	<div><div></div></div> 3,575	<div><div></div></div> 47
5						
6	<div><div></div></div> 426	<div><div></div></div> 17	<div><div></div></div> 3,707	<div><div></div></div> 3,790	<div><div></div></div> 3,774	<div><div></div></div> 83
7						
8						
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42						
43						
44						
45						
46						
47	<div><div></div></div> 250	<div><div></div></div> 15	<div><div></div></div> 3,308	<div><div></div></div> 3,432	<div><div></div></div> 3,432	<div><div></div></div> 124
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
	0100200300400500	05101520	0K1K2K3K4K	0K1K2K3K4K5K	0K1K2K3K4K5K	0200400600800



INITIAL STEP DOWN ANALYSIS

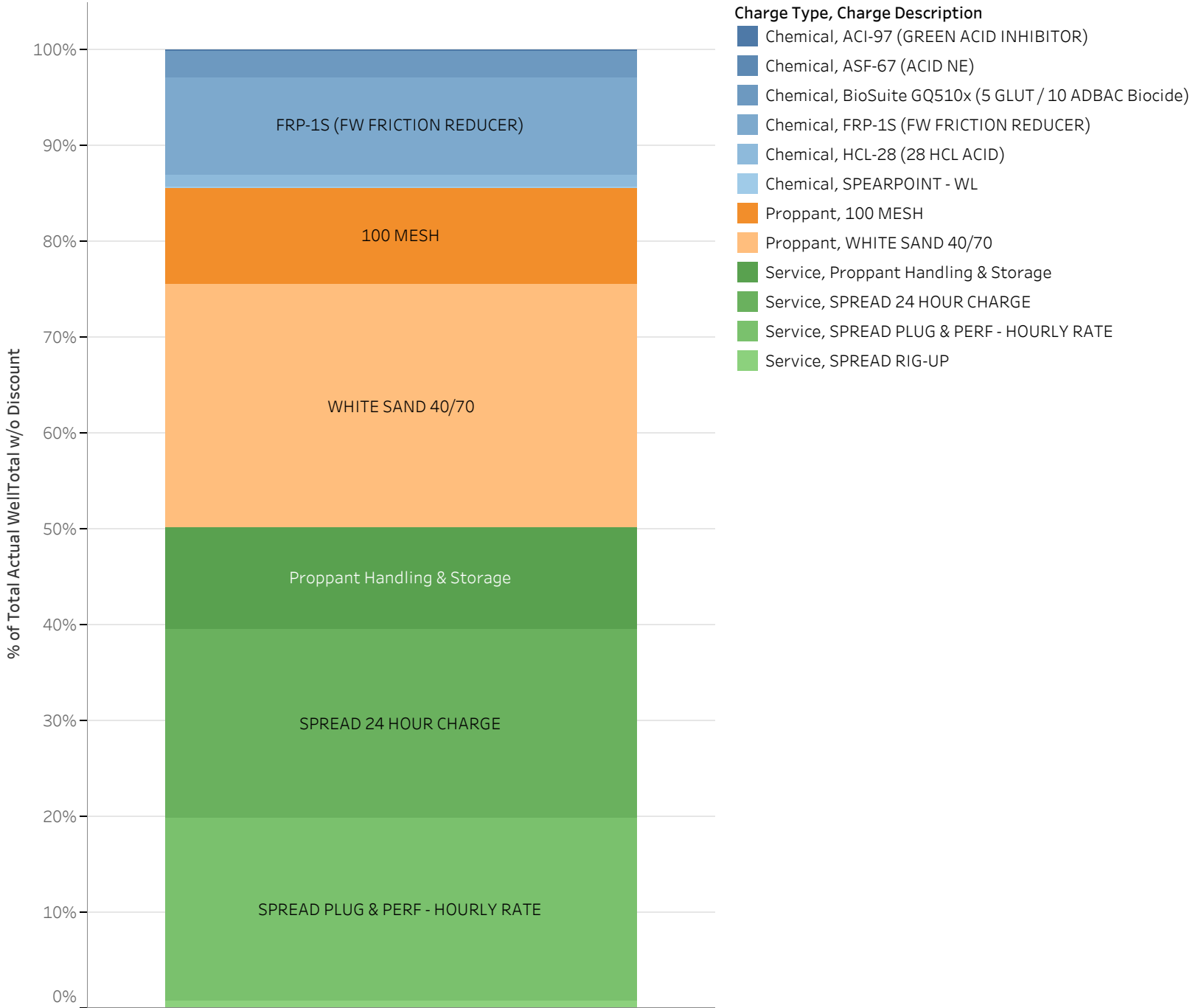
Stage	I_ISIP	I_BHISIP	I_FG	ISD Start Rate	ISD WB Fric	ISD NWB Fric	ISD Perf Fric	ISD T Fric	ISD Perfs Open
1									
2									
3									
4									
5									
6									
7									
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41									
42									
43									
44									
45									
46									
47	<div><div></div></div> 3,254	<div><div></div></div> 6,797	<div><div></div></div> 0.83	<div><div></div></div> 90	<div><div></div></div> 1,266	<div><div></div></div> 397	<div><div></div></div> 1,410	<div><div></div></div> 3,060	<div><div></div></div> 43
48									
49									
50	<div><div></div></div> 3,203	<div><div></div></div> 6,743	<div><div></div></div> 0.82	<div><div></div></div> 118	<div><div></div></div> 1,863	<div><div></div></div> 391	<div><div></div></div> 2,251	<div><div></div></div> 4,505	<div><div></div></div> 32
51									
52	<div><div></div></div> 3,163	<div><div></div></div> 6,702	<div><div></div></div> 0.82	<div><div></div></div> 91	<div><div></div></div> 1,174	<div><div></div></div> 333	<div><div></div></div> 1,281	<div><div></div></div> 2,788	<div><div></div></div> 35
53									
54									
55									
56									
57									
58									
59									
60									
	0K1K2K3K4K	0K2K4K6K8K	0.00.51.0	050100150	0K1K2K	0200400	0K1K2K	0K2K4K	02040



TICKET SUMMARY - REDSTONE 6-65 24-36 1HN

Charge Type	Charge Description	Quote Qty	Actual Qty	Quote Discount	% Diff/Quote
Service	Proppant Handling & Storage	20,940,000.00	20,875,551.00	0%	-0.3%
	SPREAD 24 HOUR CHARGE	6.70	6.36	0%	-5.1%
	SPREAD PLUG & PERF - HOURLY RATE	112.40	104.95	0%	-6.6%
	SPREAD RIG-UP	0.50	0.50	0%	0.0%
Chemical	ACI-97 (GREEN ACID INHIBITOR)	60.00	116.00	0%	
	ASF-67 (ACID NE)	60.00	116.00	0%	
	BioSuite GQ510x (5 GLUT / 10 ADBAC Biocide)	6,527.00	6,765.00	0%	3.6%
	FRP-1S (FW FRICTION REDUCER)	27,267.00	27,176.00	0%	-0.3%
	HCL-28 (28 HCL ACID)	37,031.00	14,616.00	0%	-60.5%
	SPEARPOINT - WL	0.00	449.00	0%	
Proppant	100 MESH	6,282,000.00	6,281,971.00	0%	0.0%
	WHITE SAND 40/70	14,658,000.00	14,593,580.00	0%	-0.4%

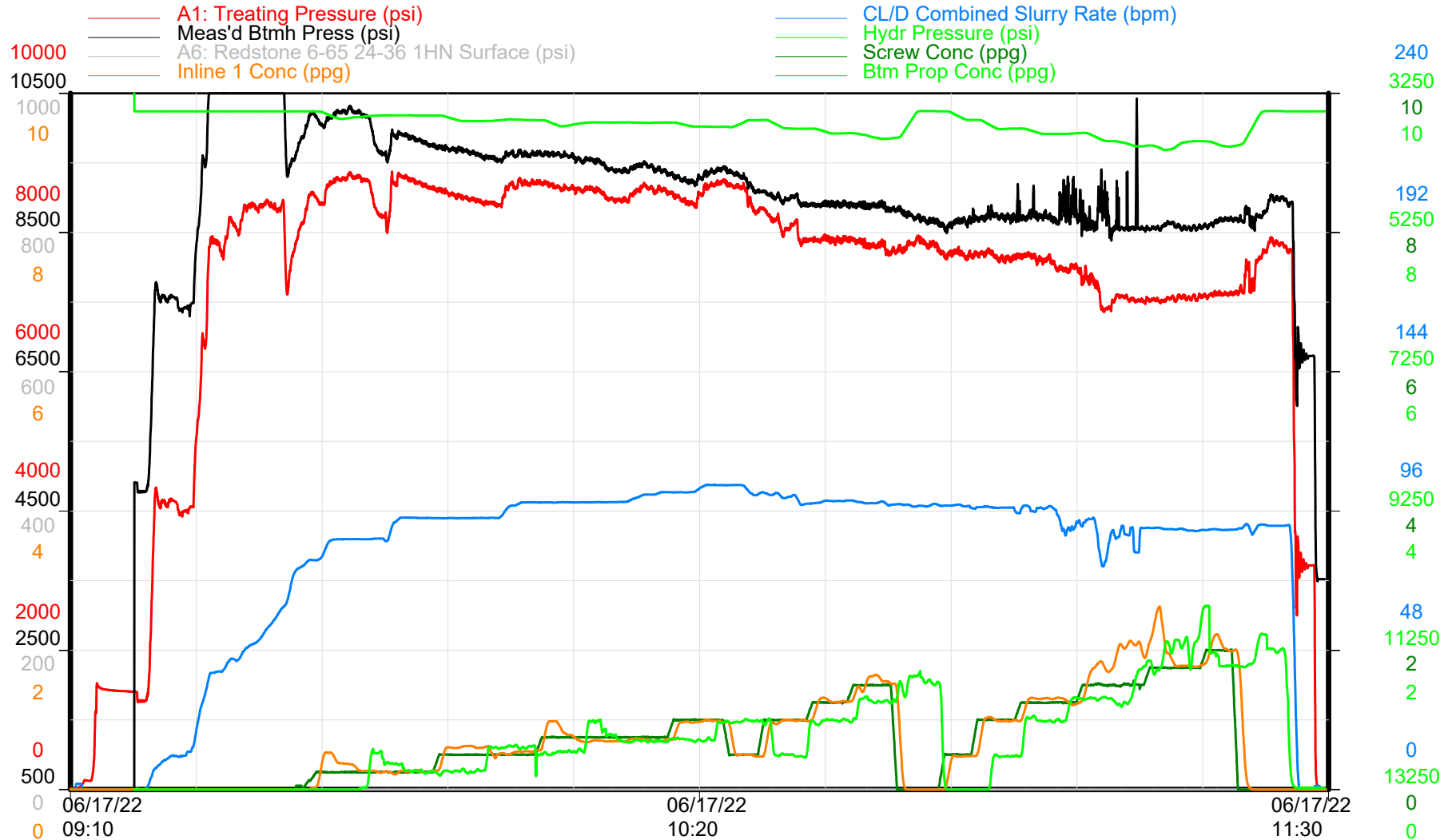
Total Quote % Variance		-4.29%			
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REDSTONE 6-65 24-36 1HN Stage 01

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 01 of 60



Treatment Plot

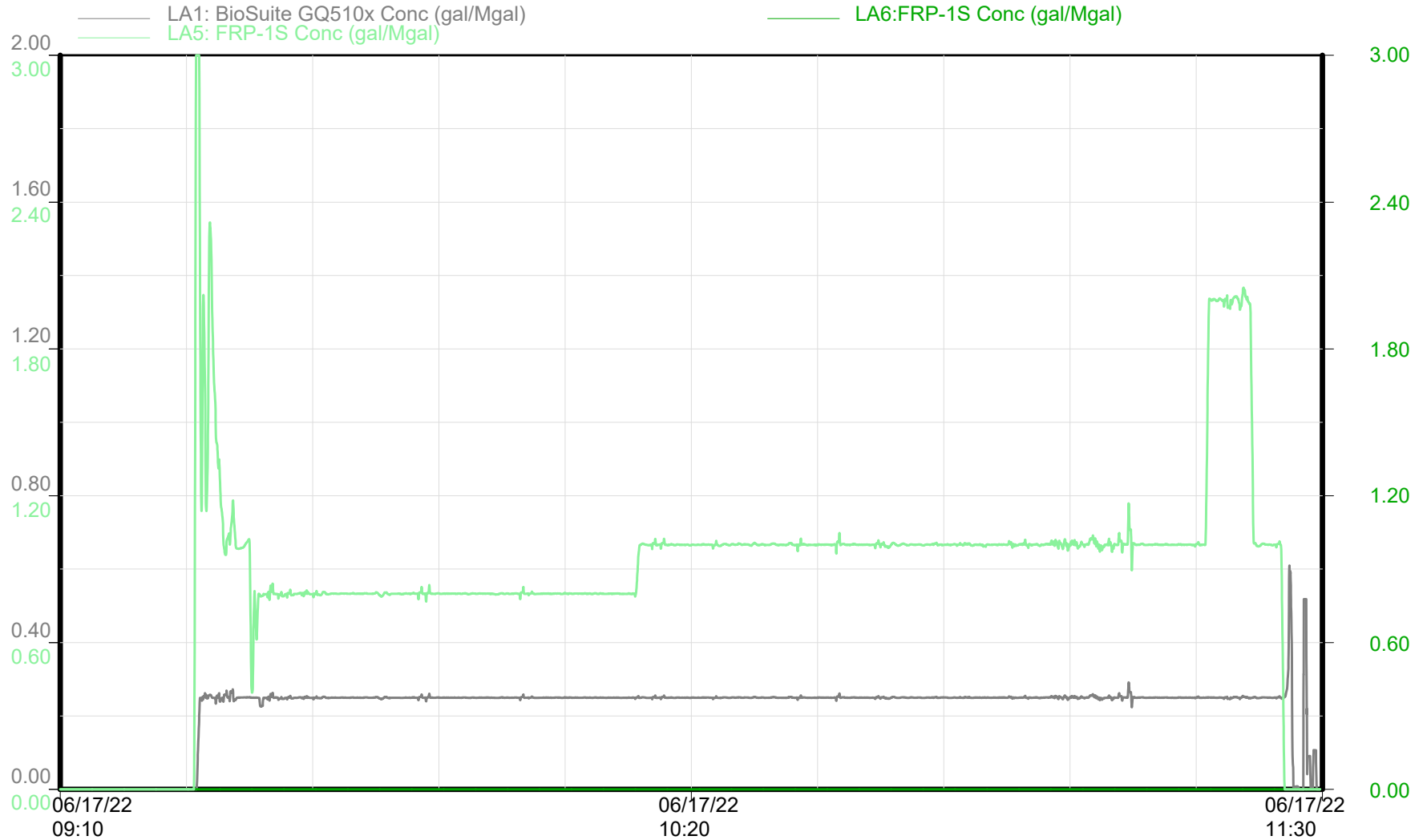
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 01 of 60



Chemical Additives

Time

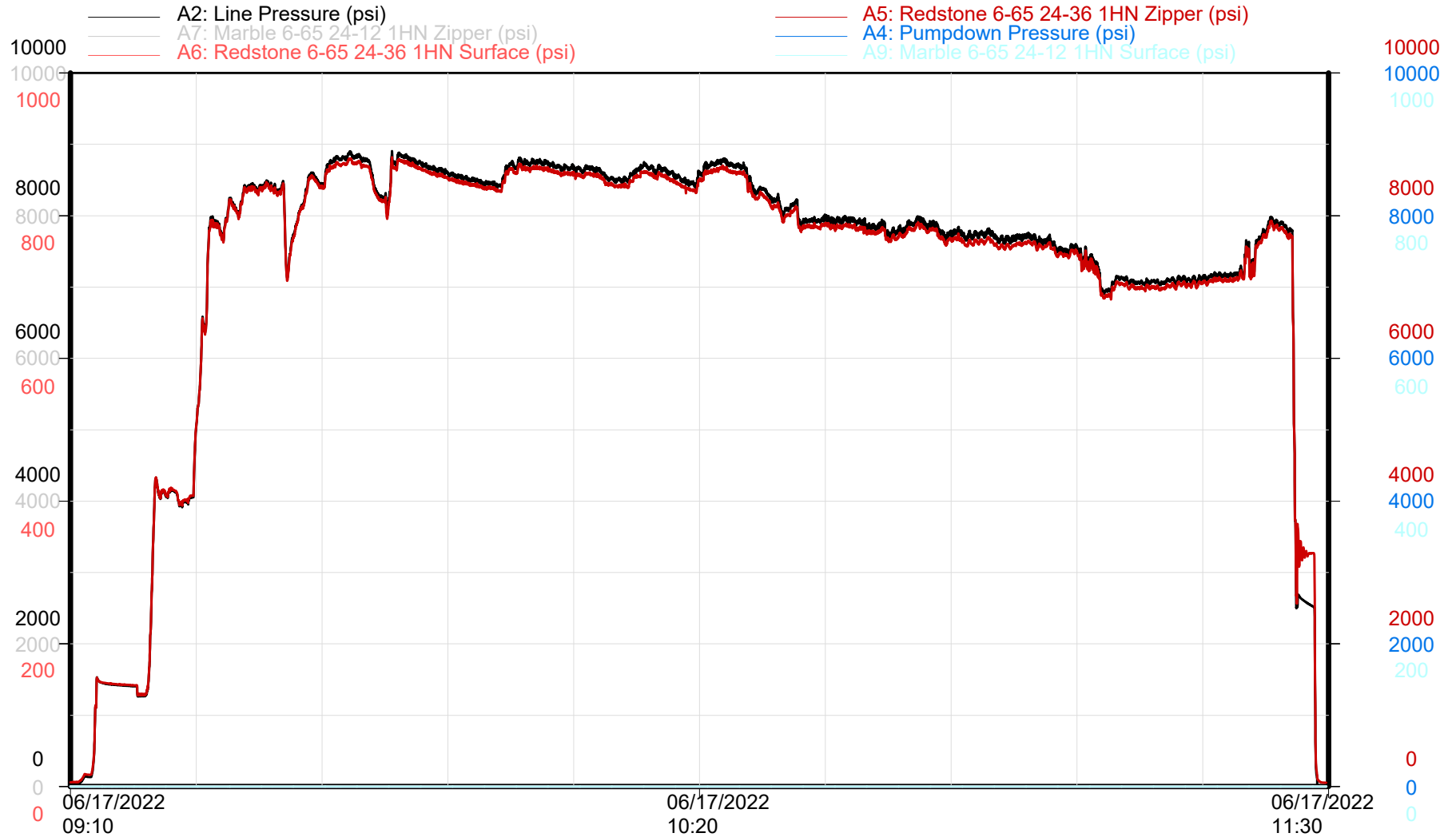
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 01



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 01 of 60



Zipper Pressures

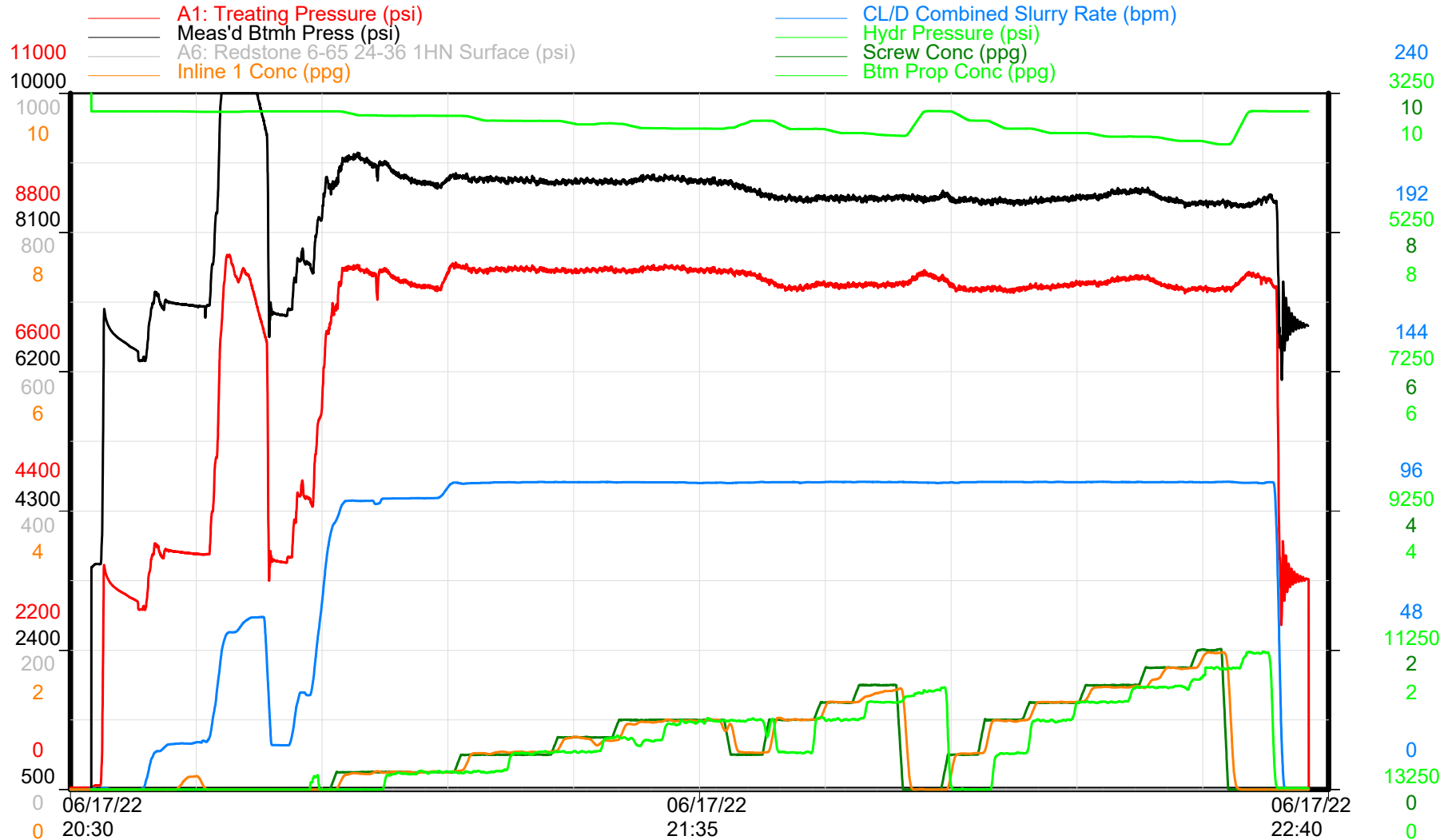
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 02

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 02 of 60



Treatment Plot

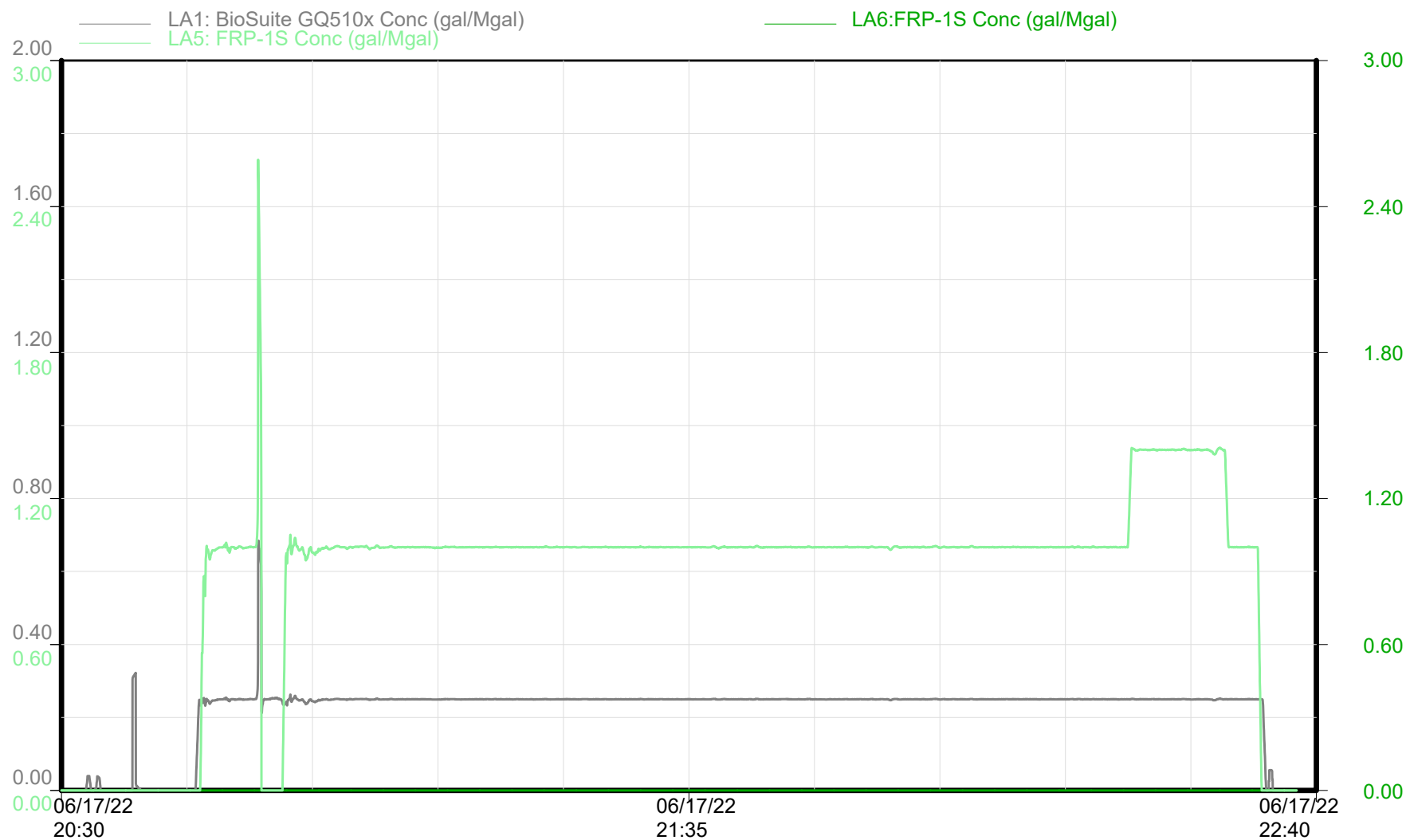
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 02 of 60



Chemical Additives

Time

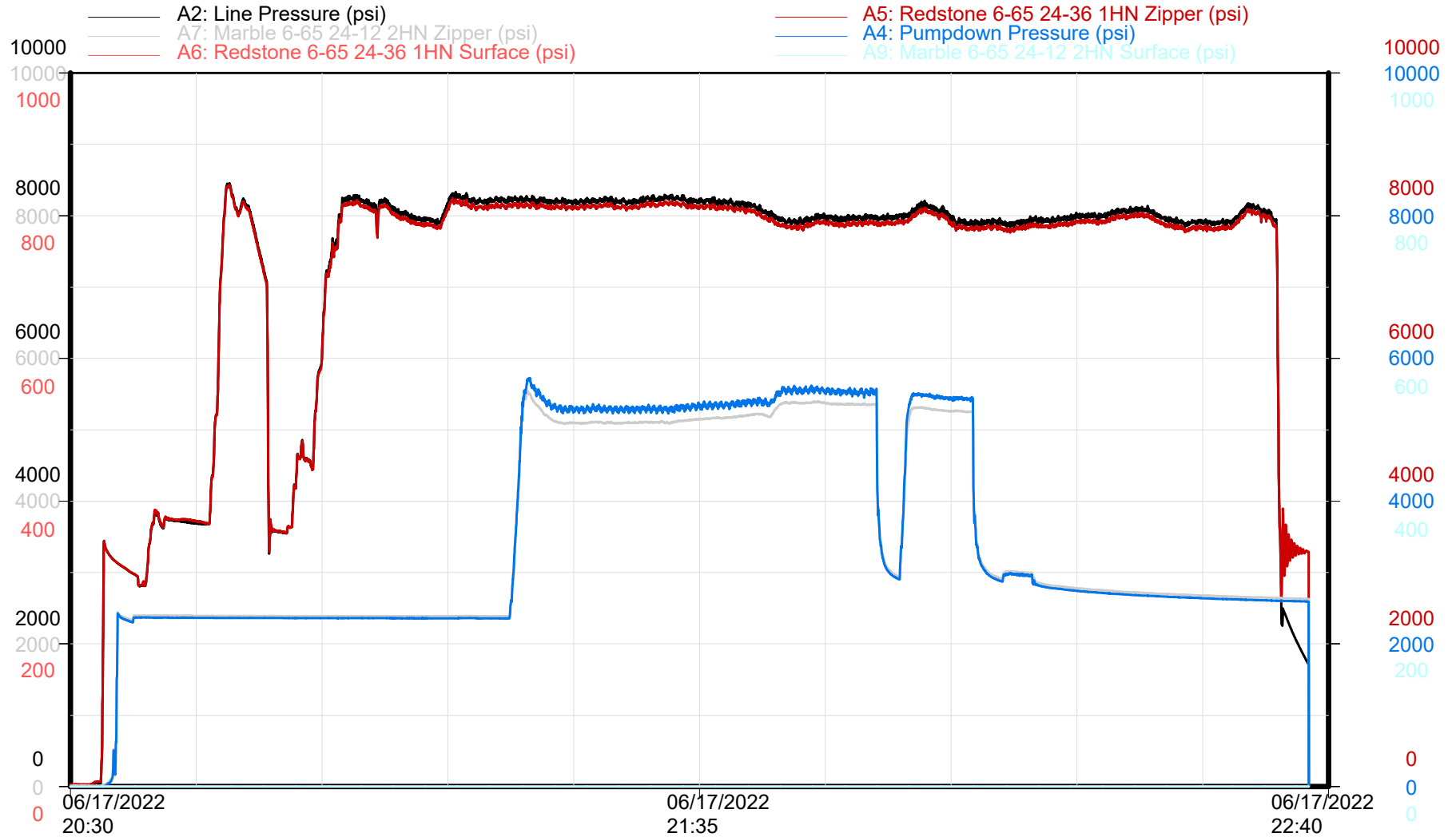
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 02



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 02 of 60



Zipper Pressures

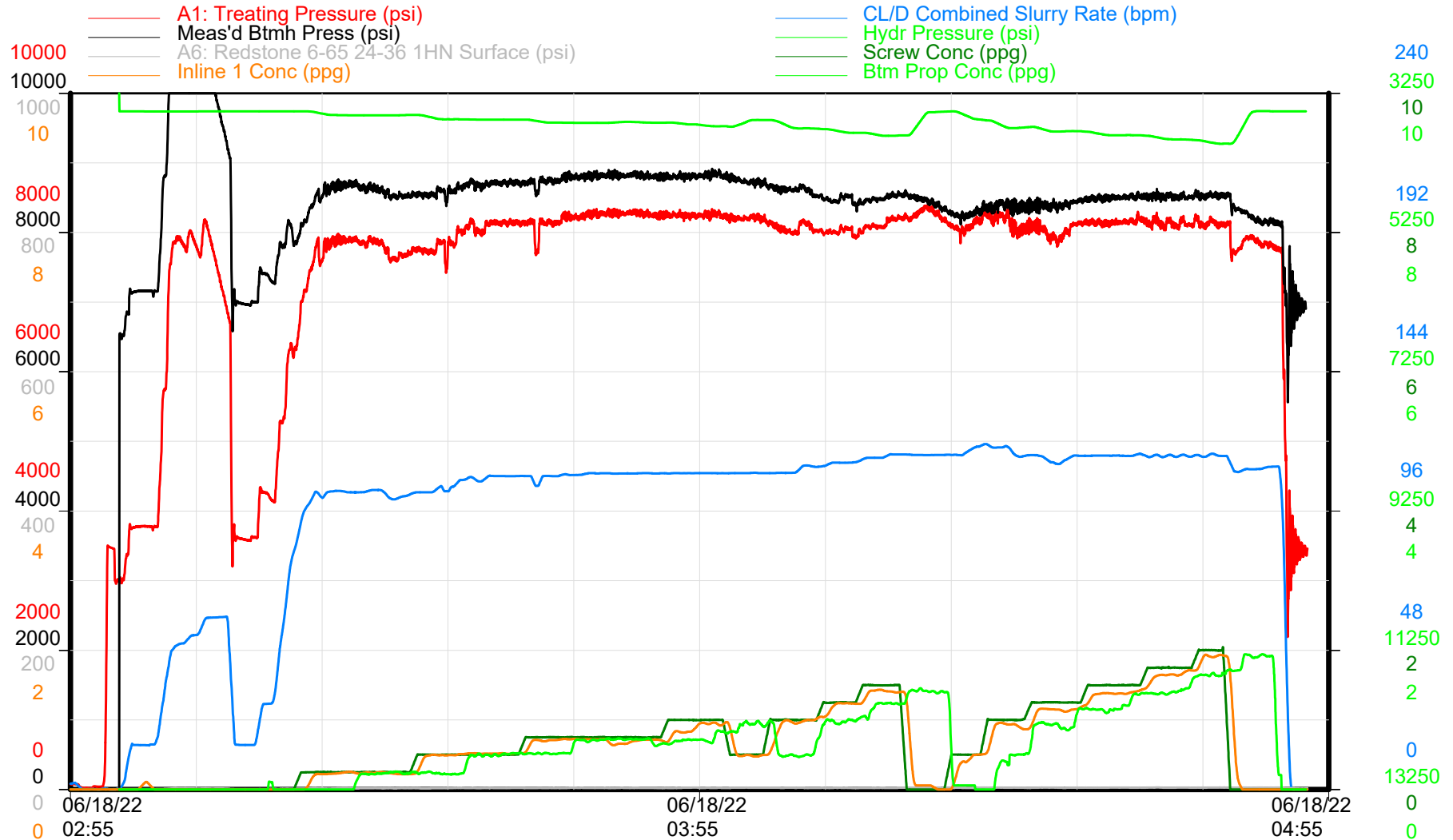
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 03

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 03 of 60



Treatment Plot

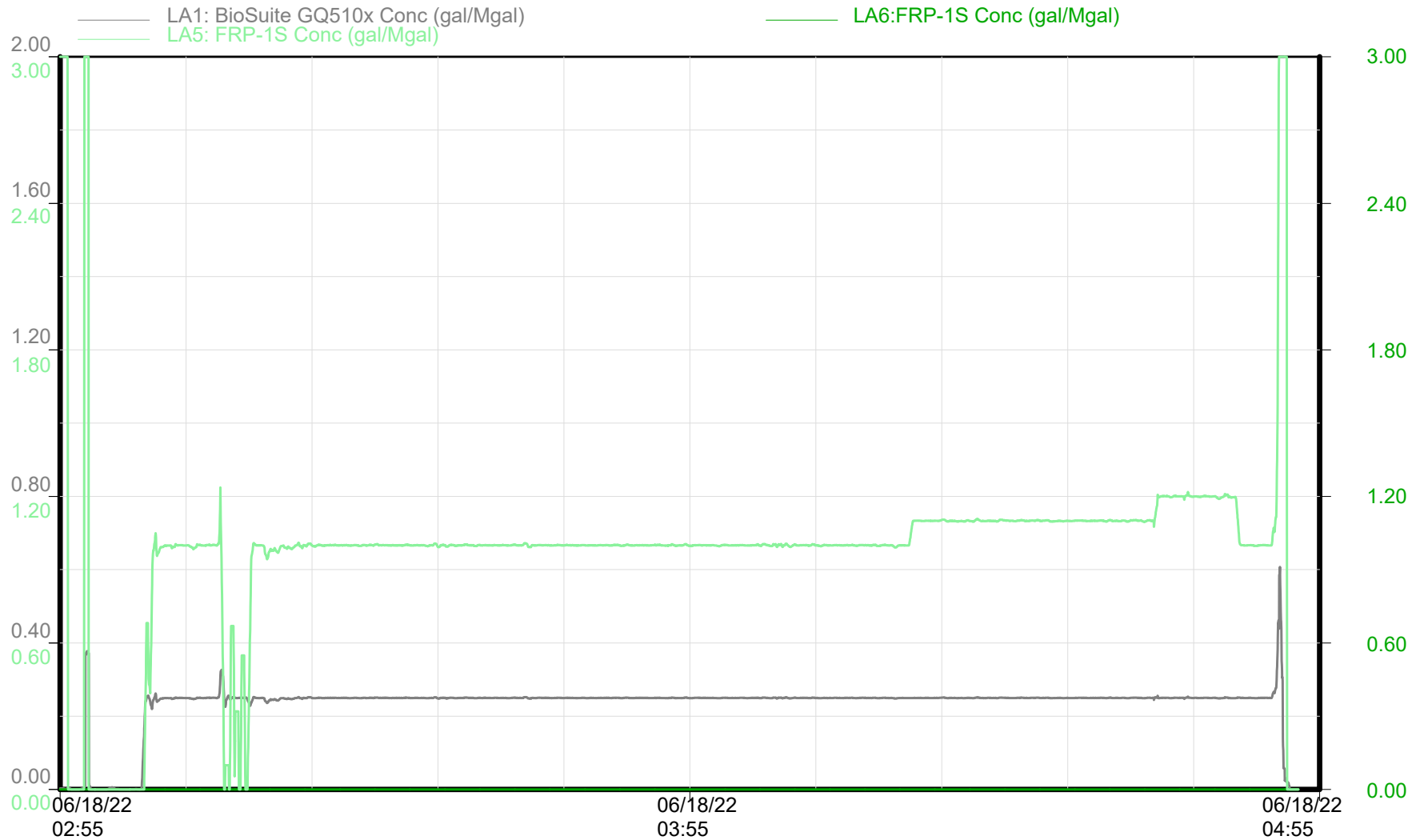
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 03 of 60



Chemical Additives

Time

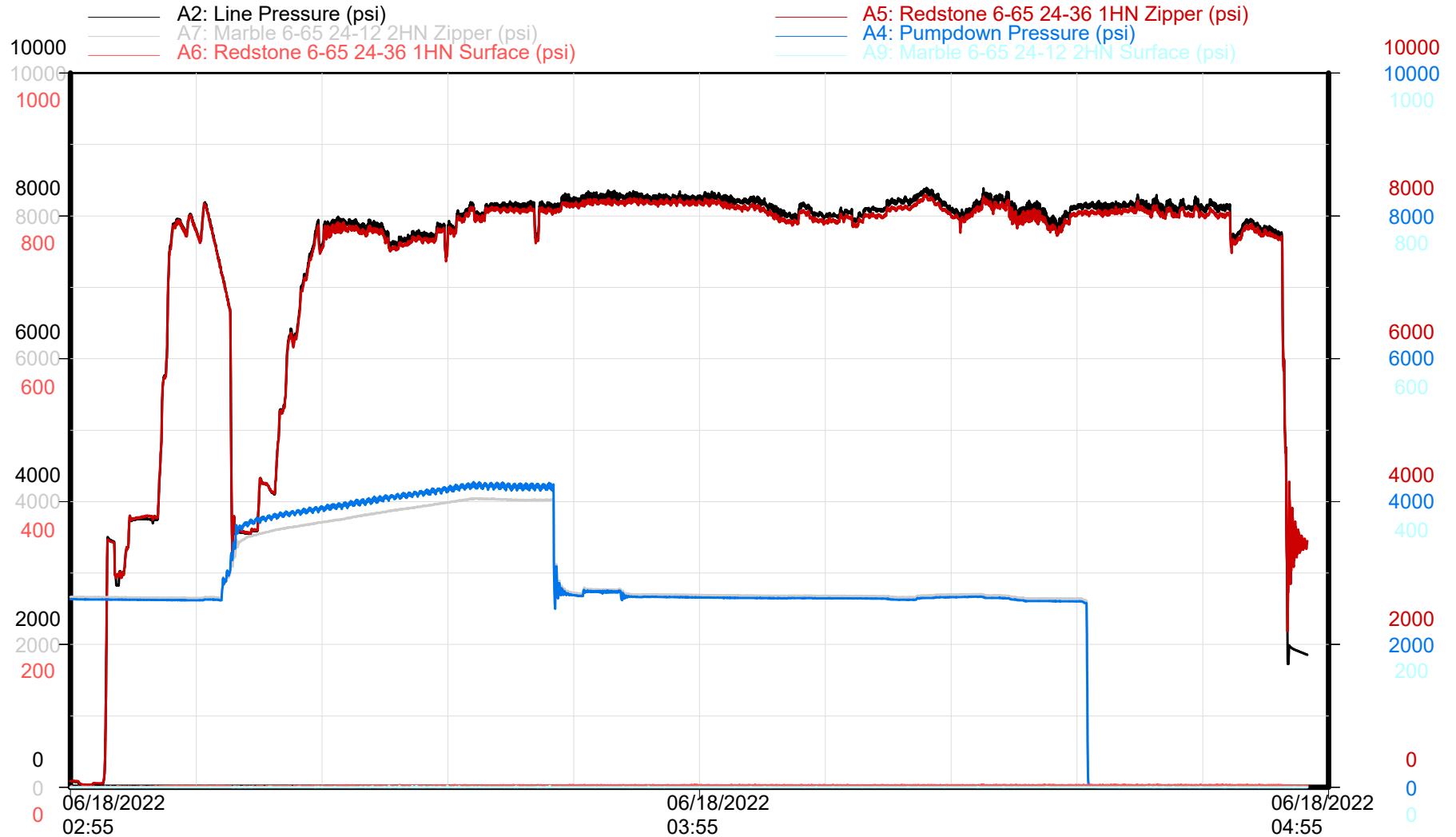
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 03



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 03 of 60



Zipper Pressures

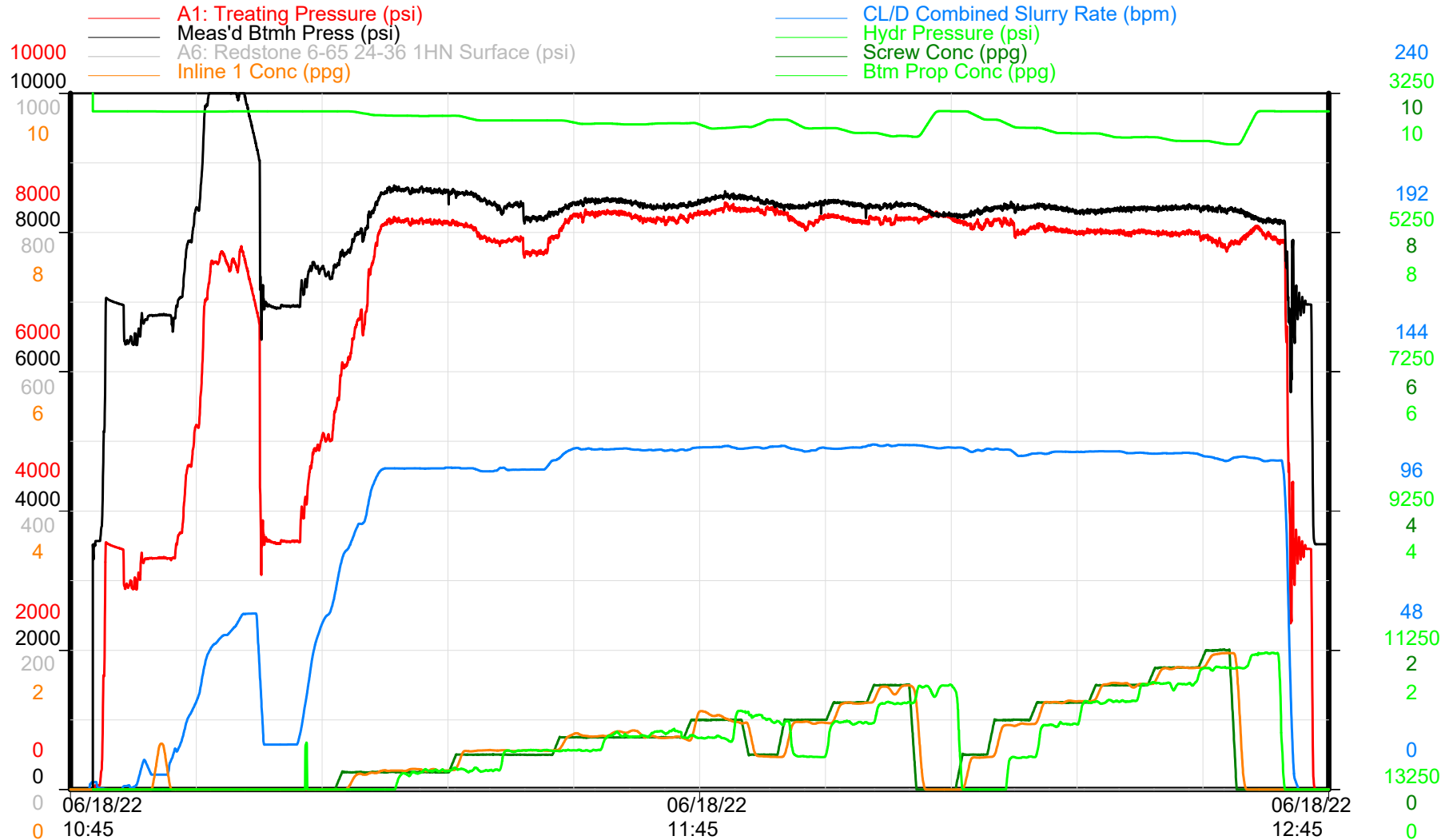
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 04

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 04 of 60



Treatment Plot

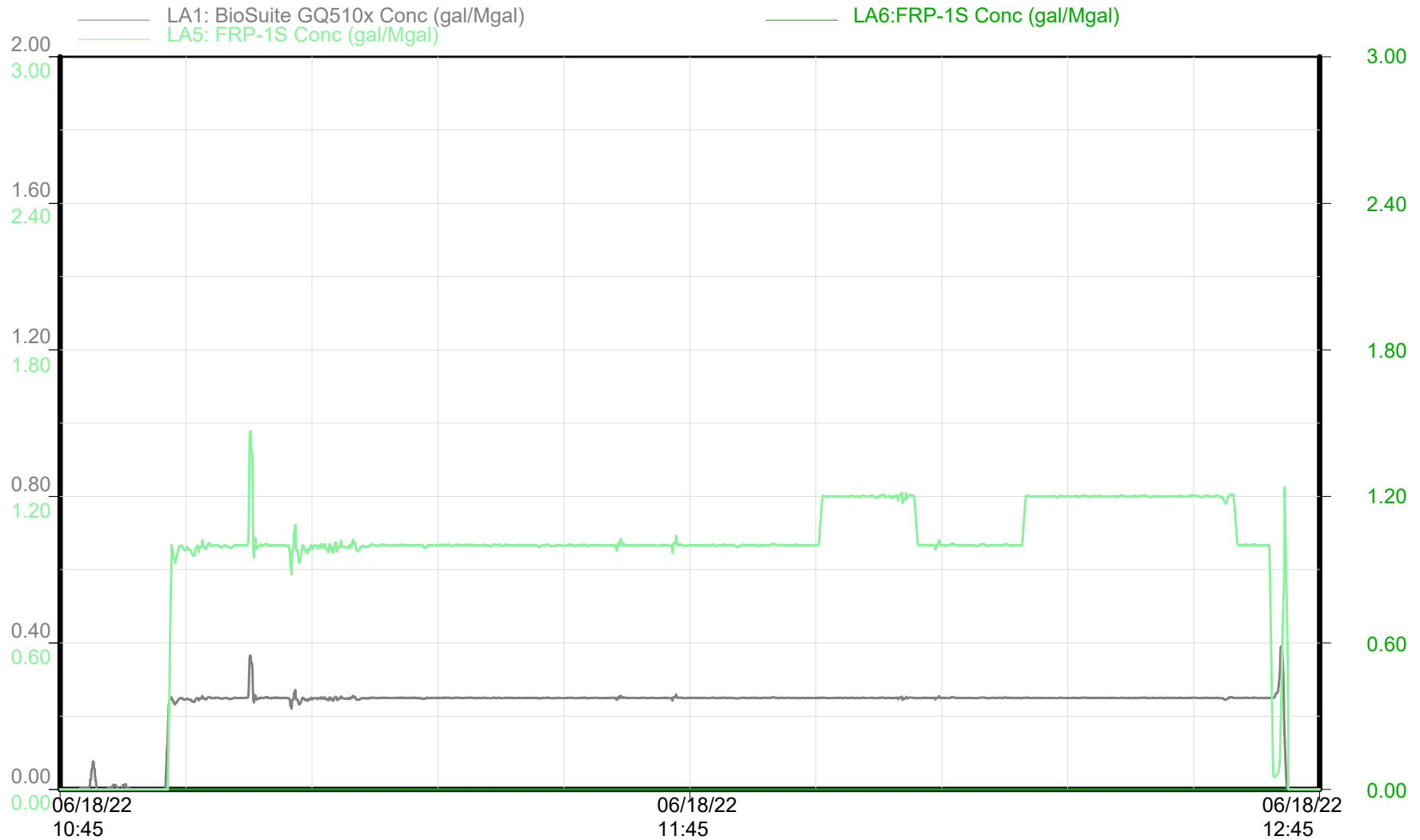
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 04 of 60



Chemical Additives

Time

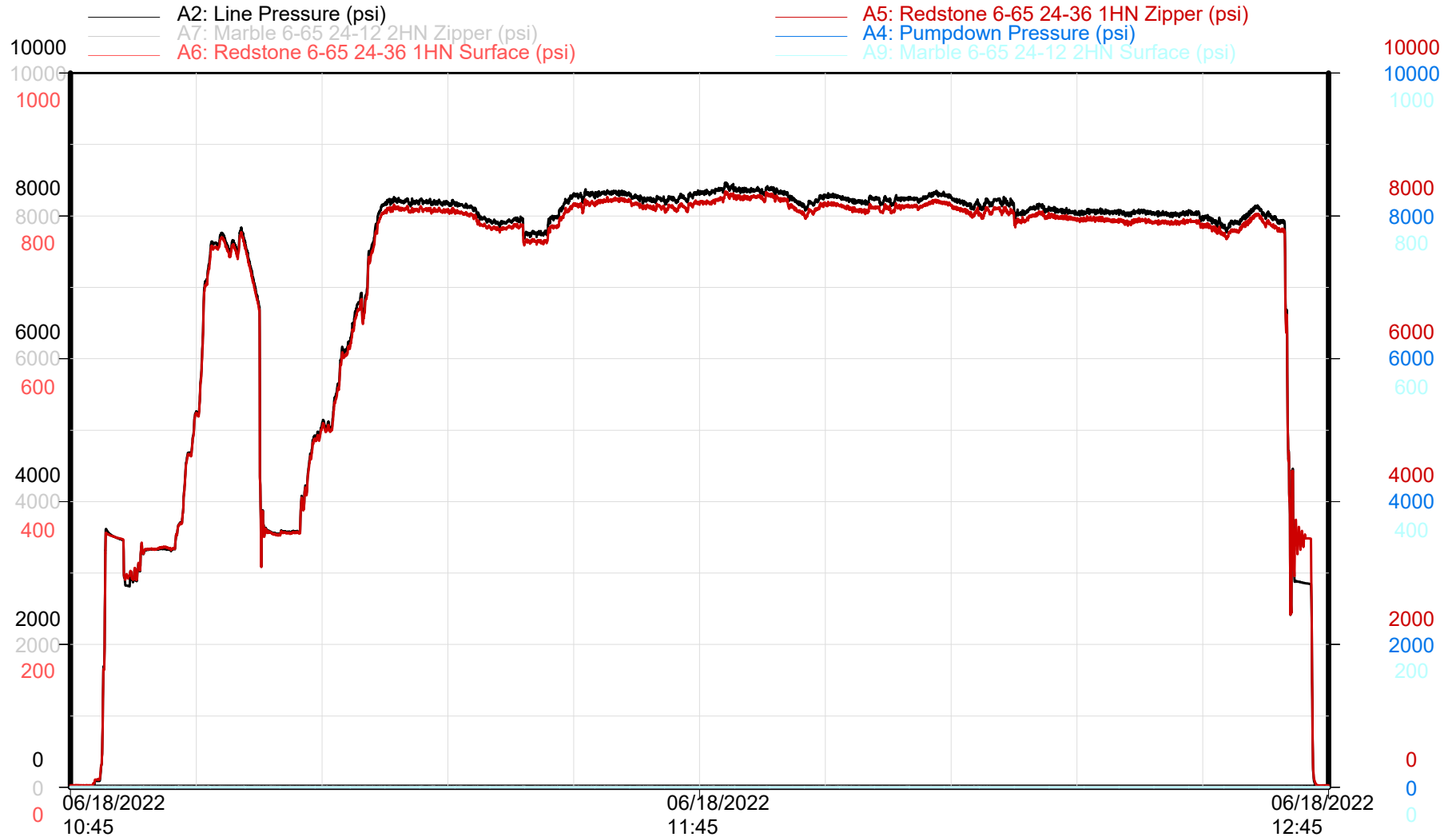
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 04



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 04 of 60



Zipper Pressures

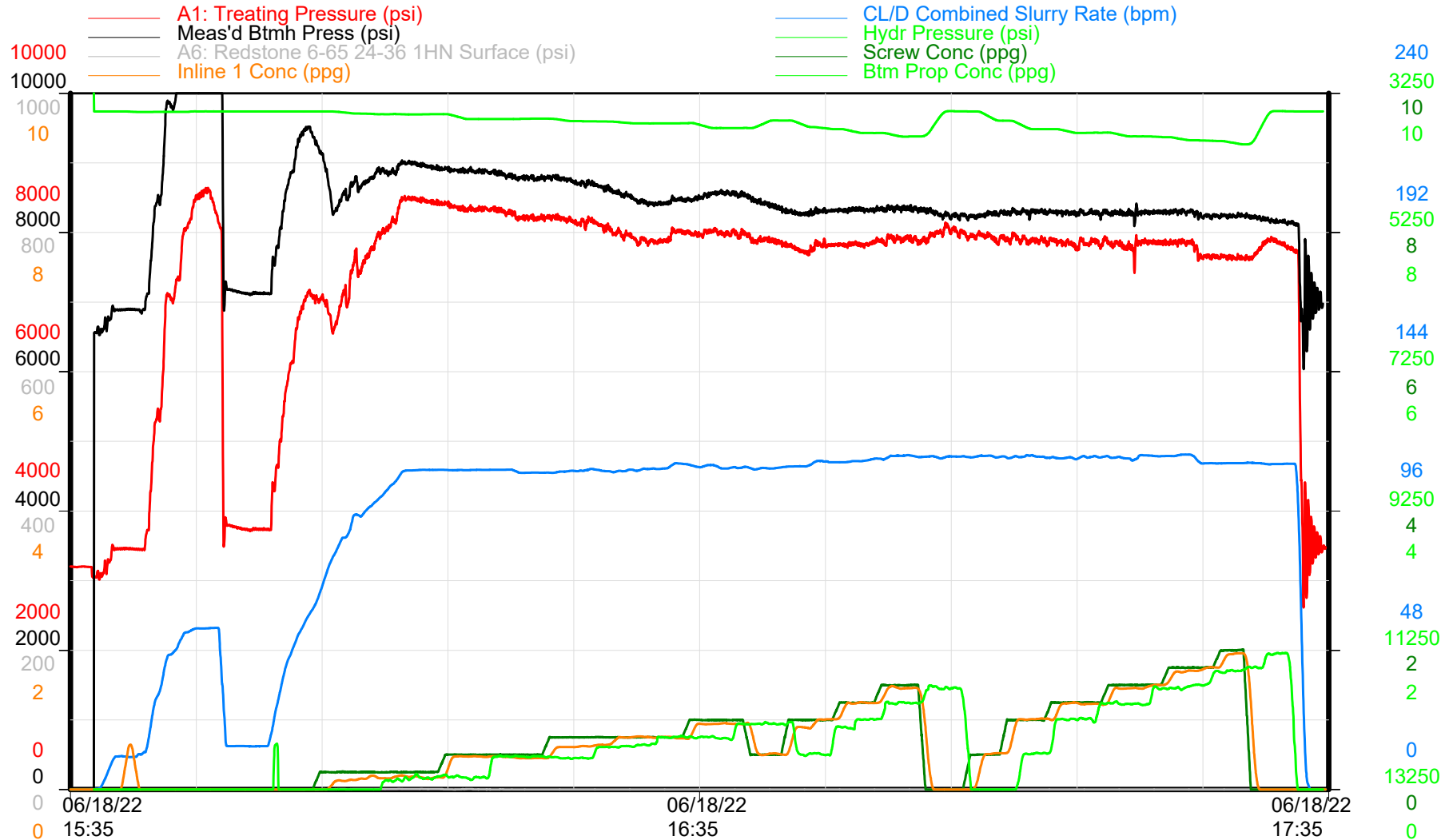
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 05

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 05 of 60



Treatment Plot

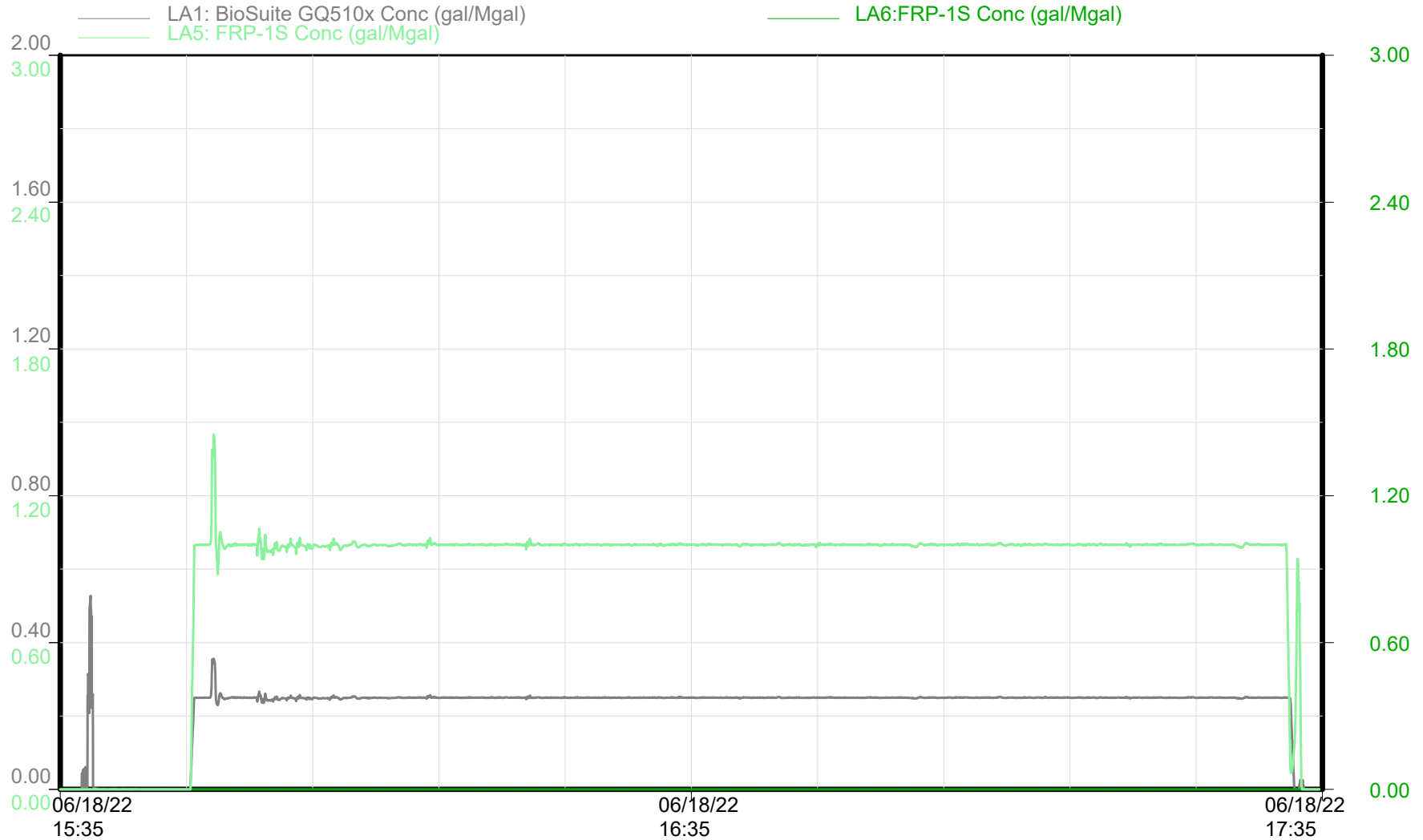
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 05 of 60



Chemical Additives

Time

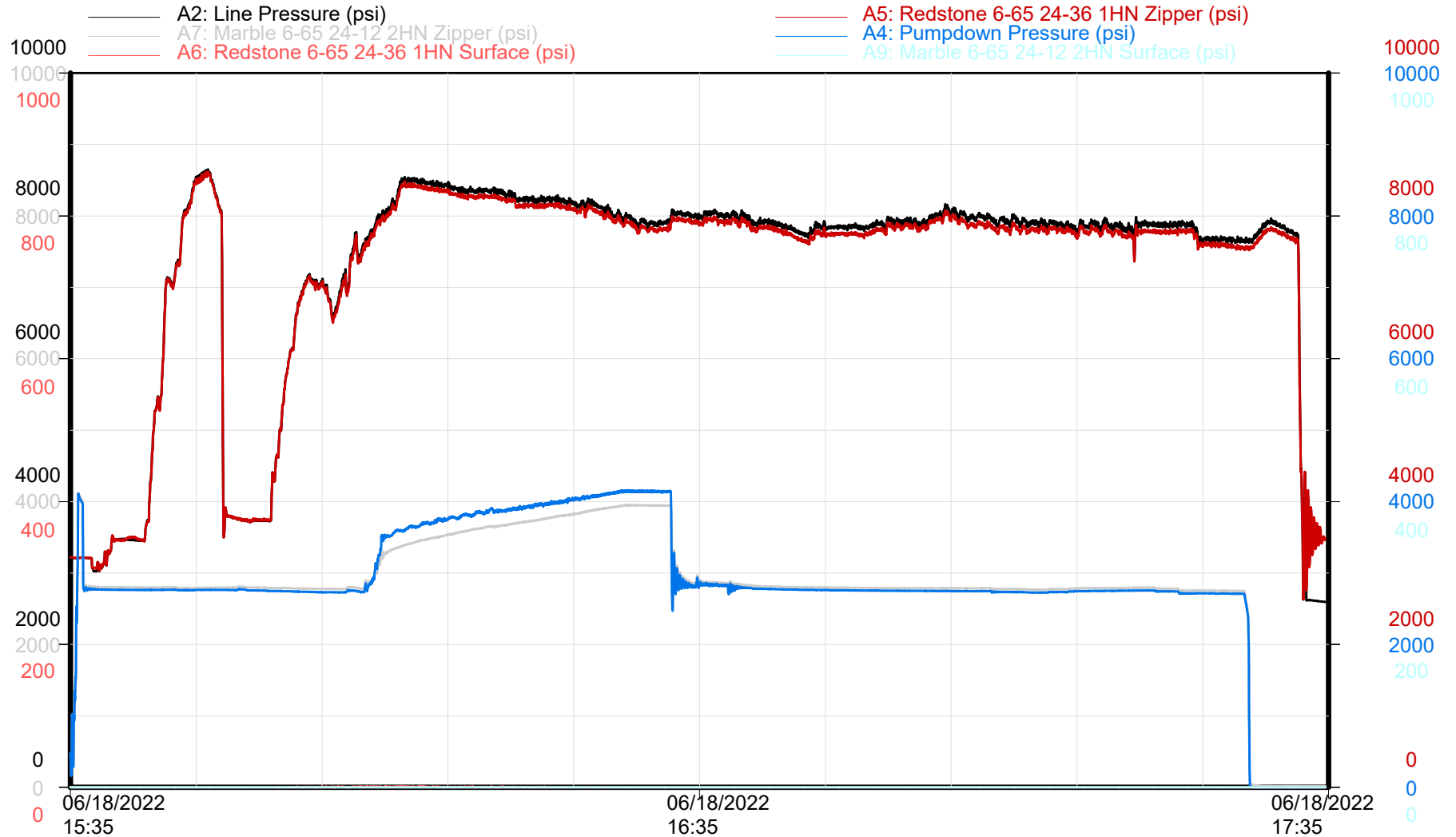
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 05



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 05 of 60



Zipper Pressures

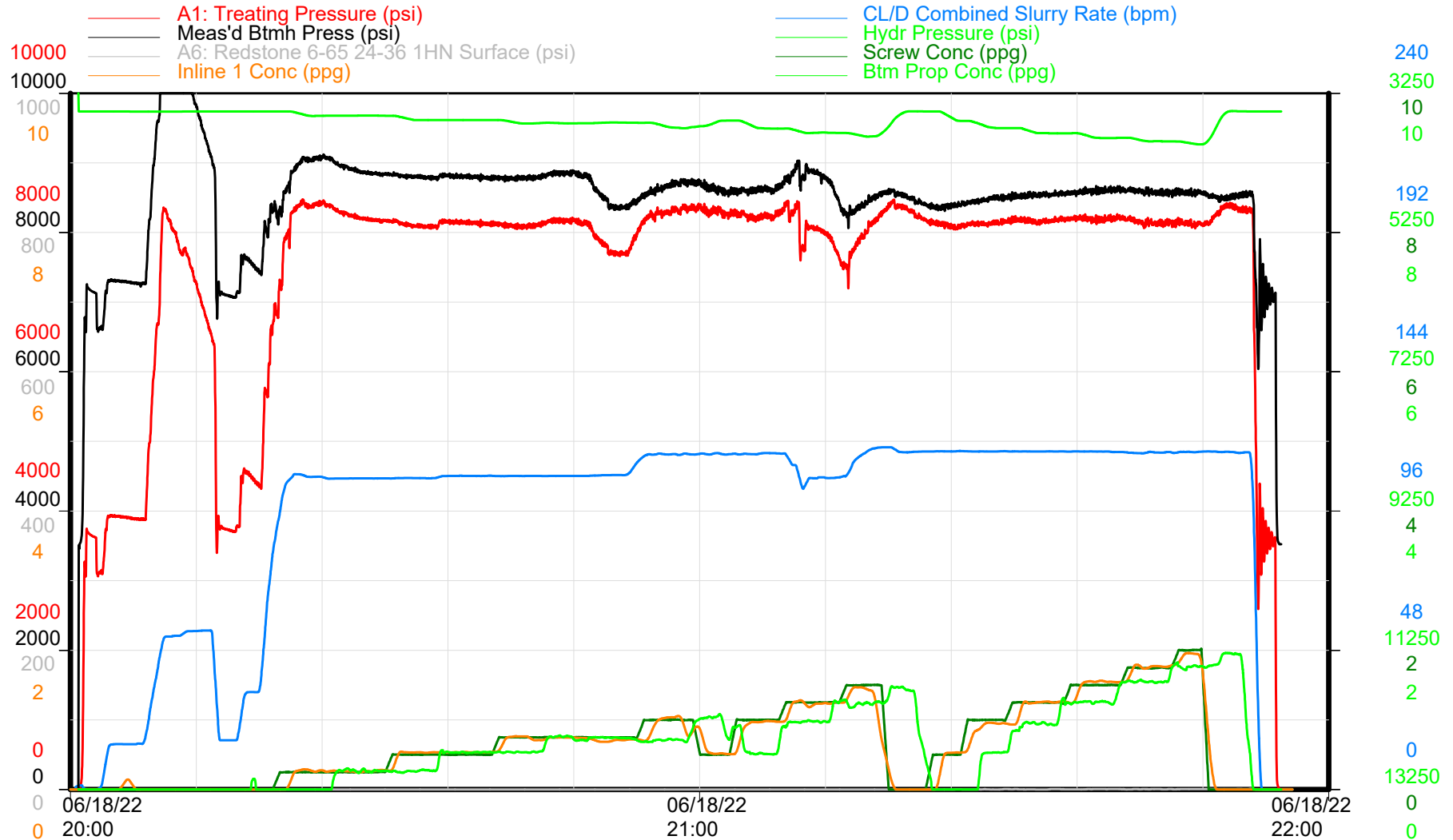
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 06

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 06 of 60



Treatment Plot

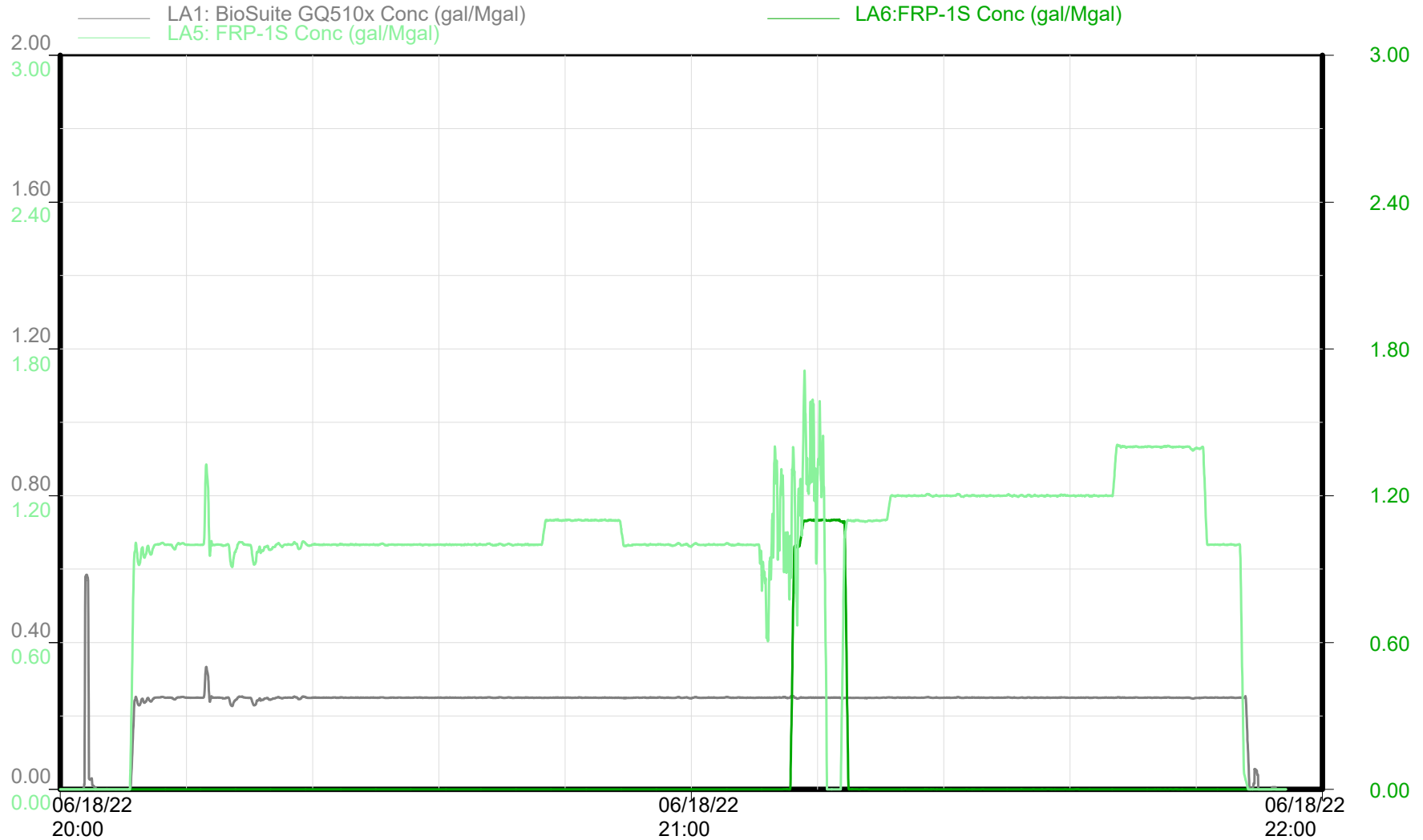
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 06 of 60



Chemical Additives

Time

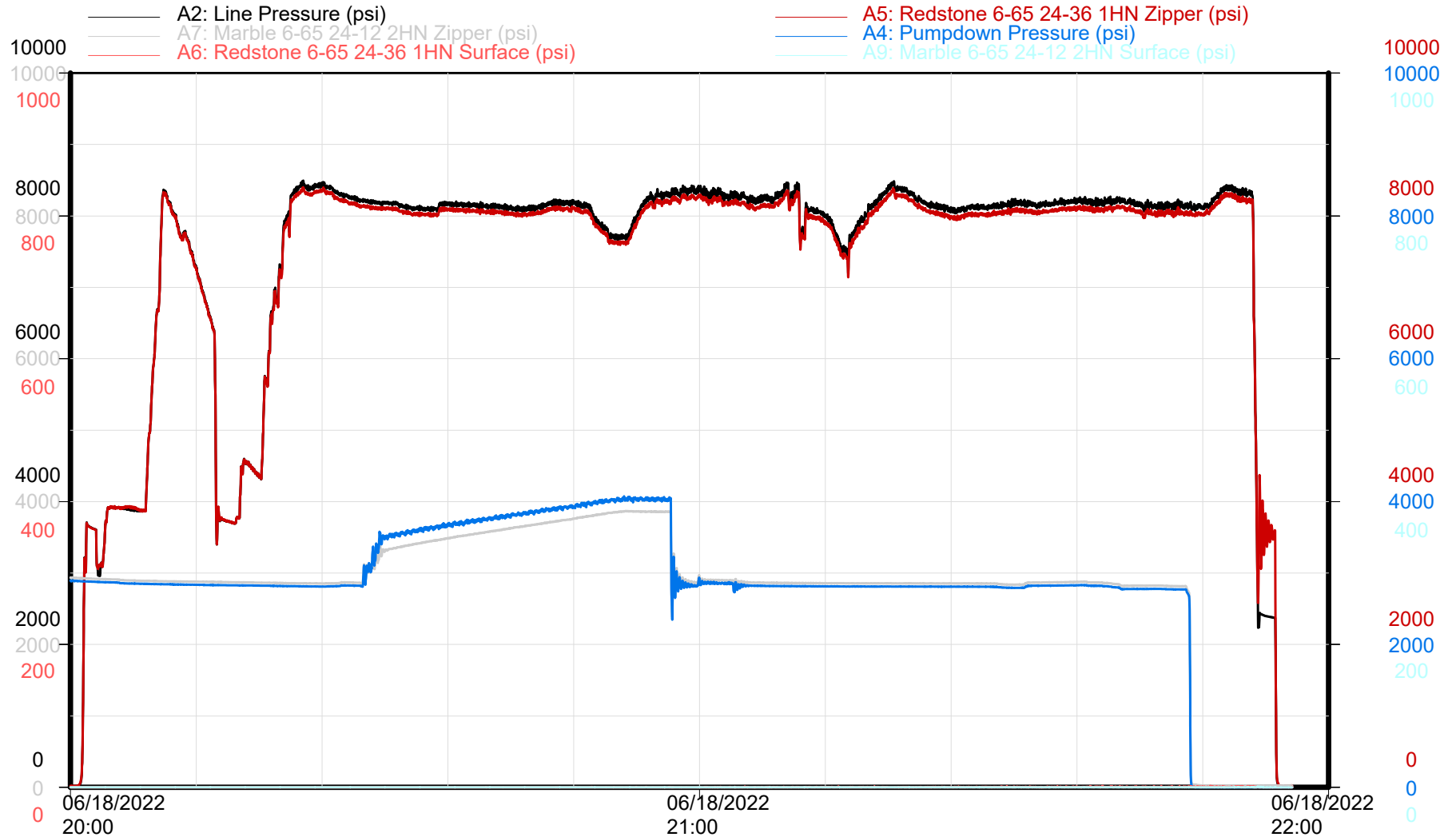
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 06



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 06 of 60



Zipper Pressures

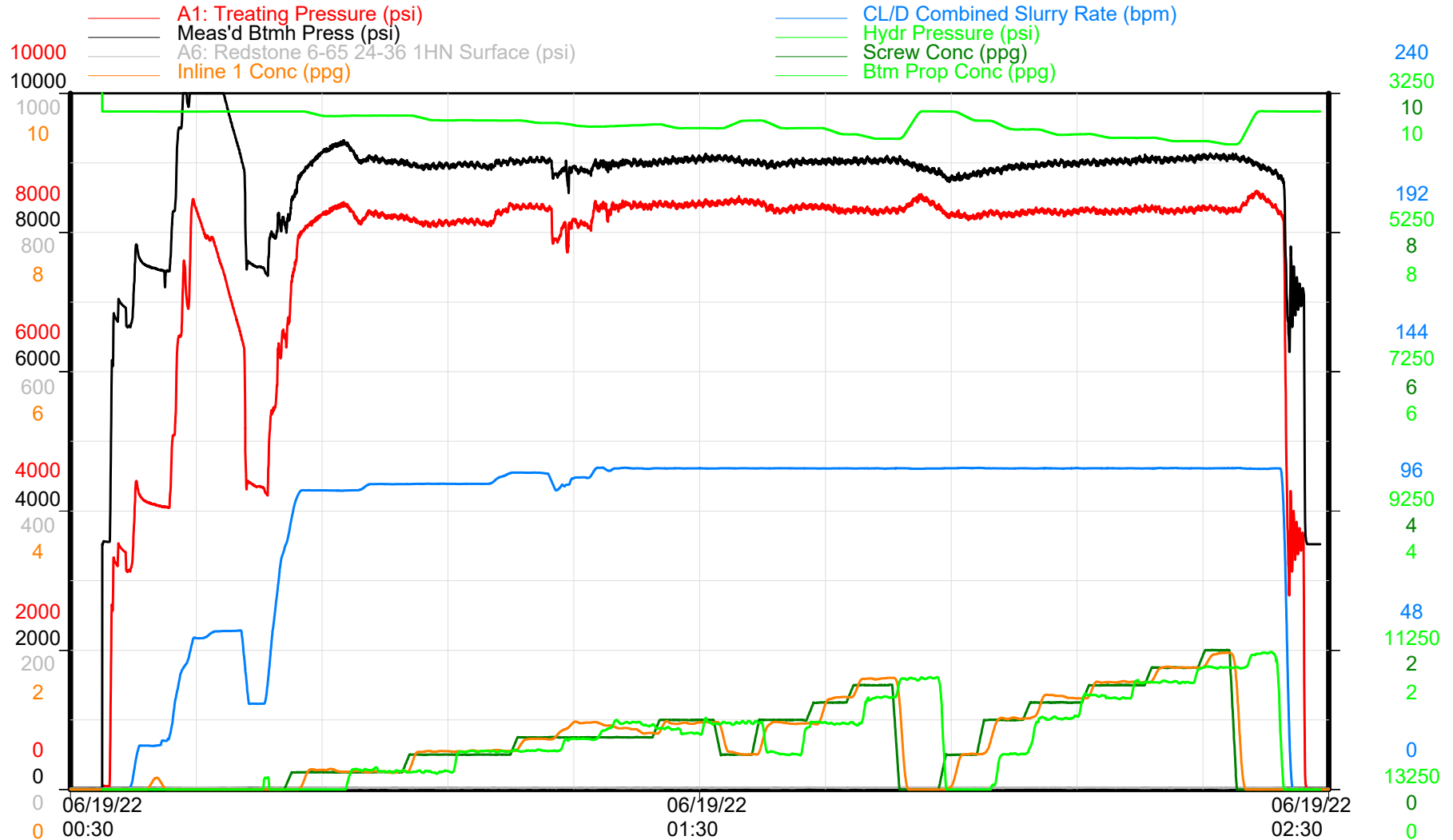
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 07

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 07 of 60



Treatment Plot

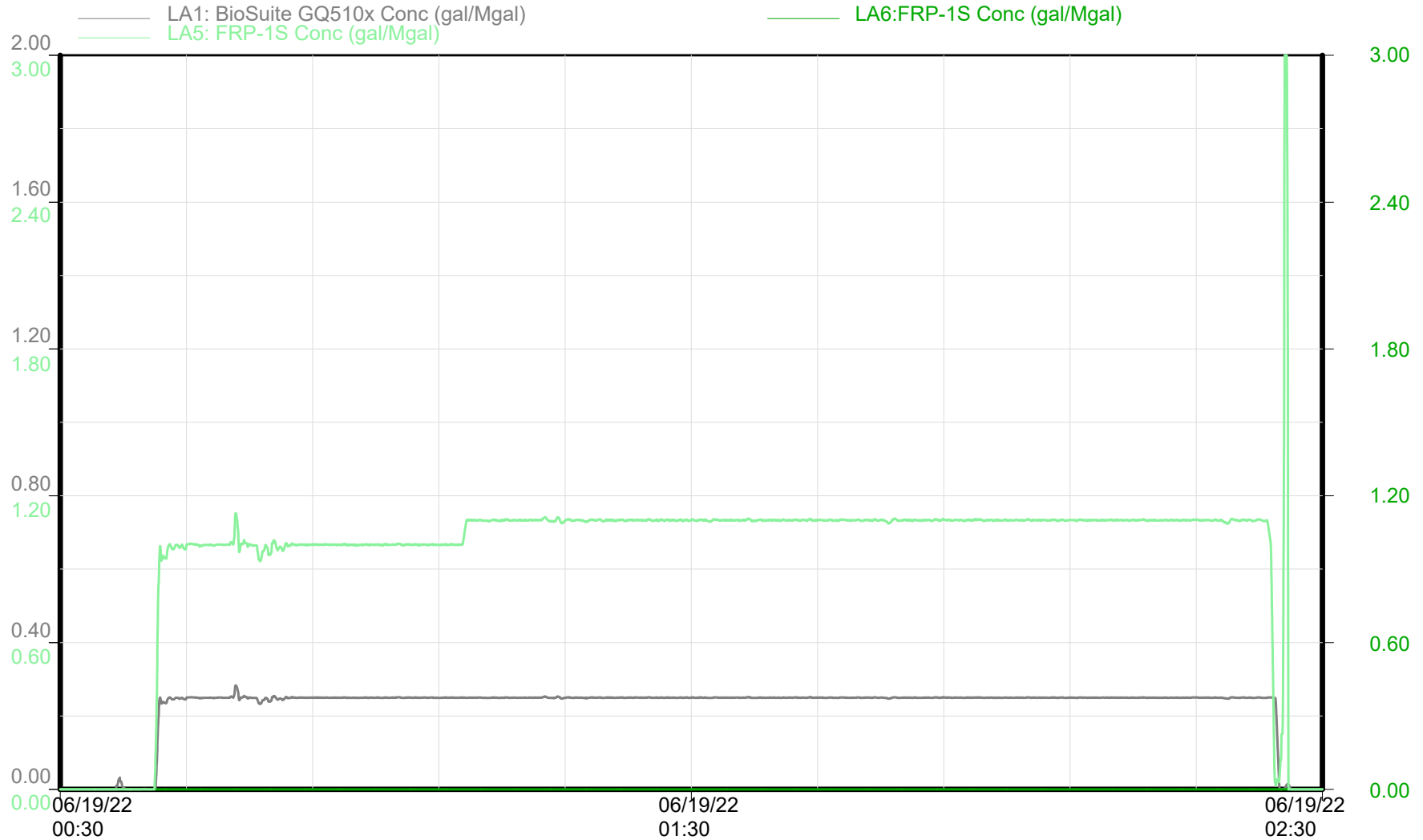
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 07 of 60



Chemical Additives

Time

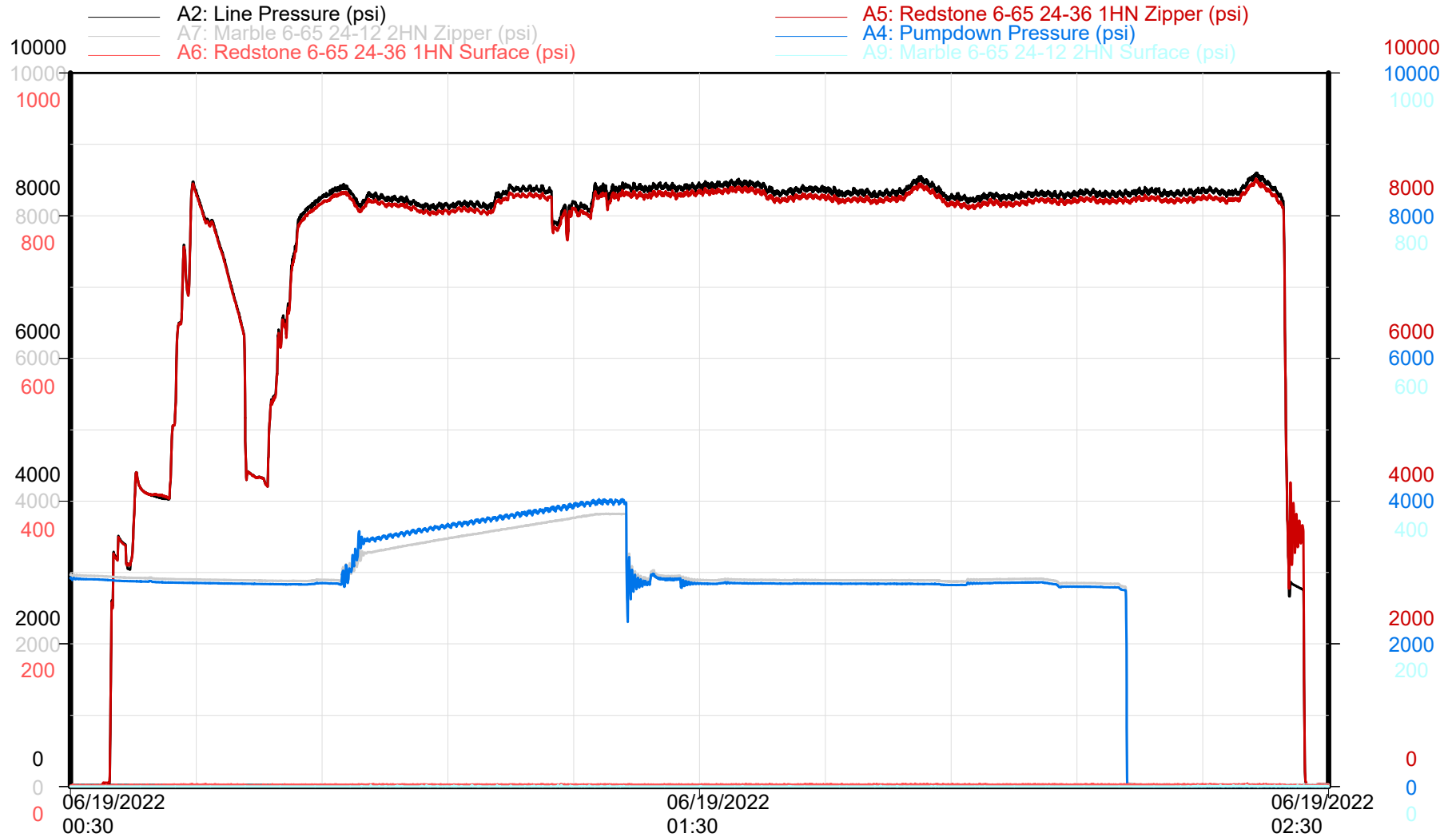
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 07



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 07 of 60



Zipper Pressures

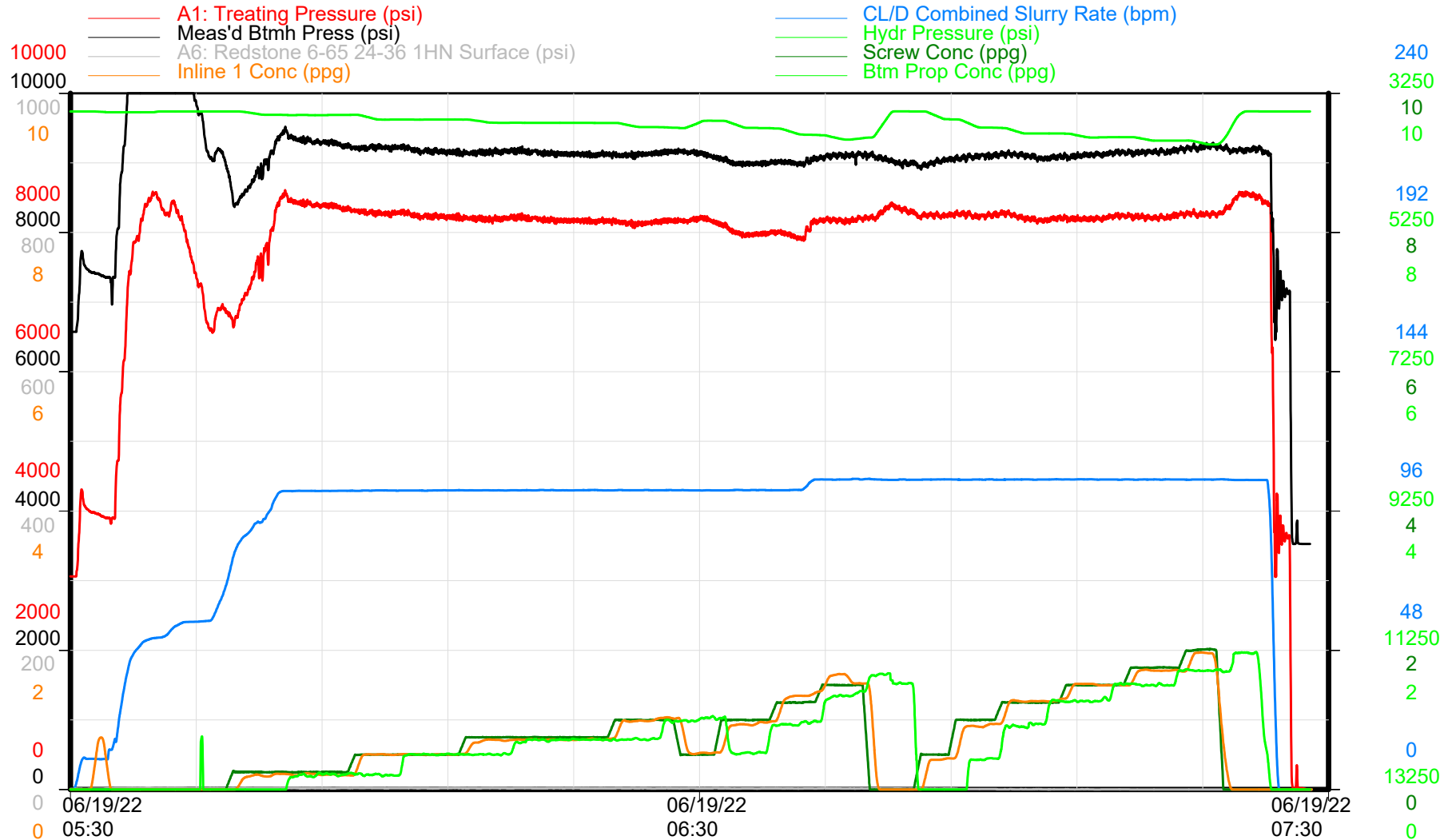
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 08

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 08 of 60



Treatment Plot

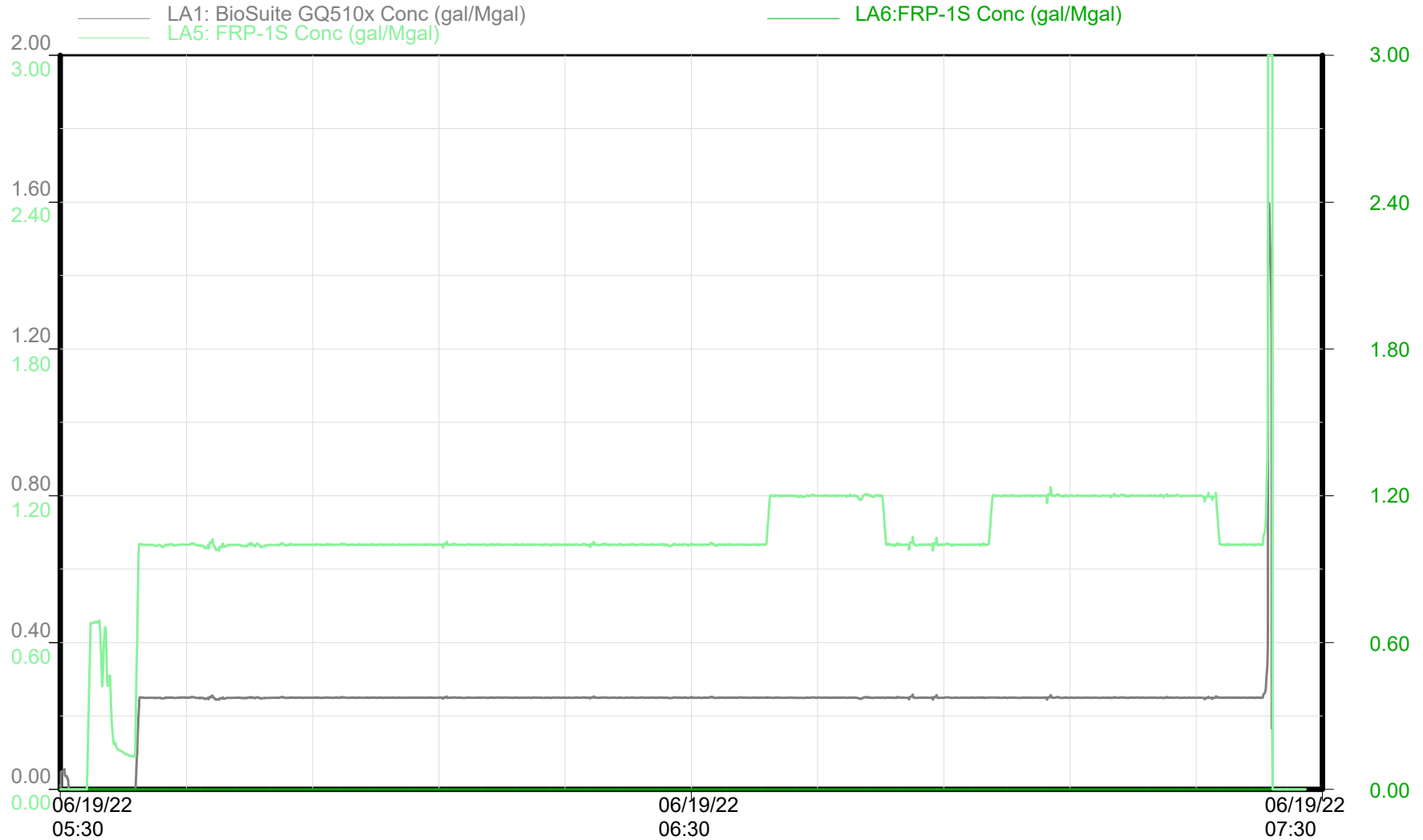
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 08 of 60



Chemical Additives

Time

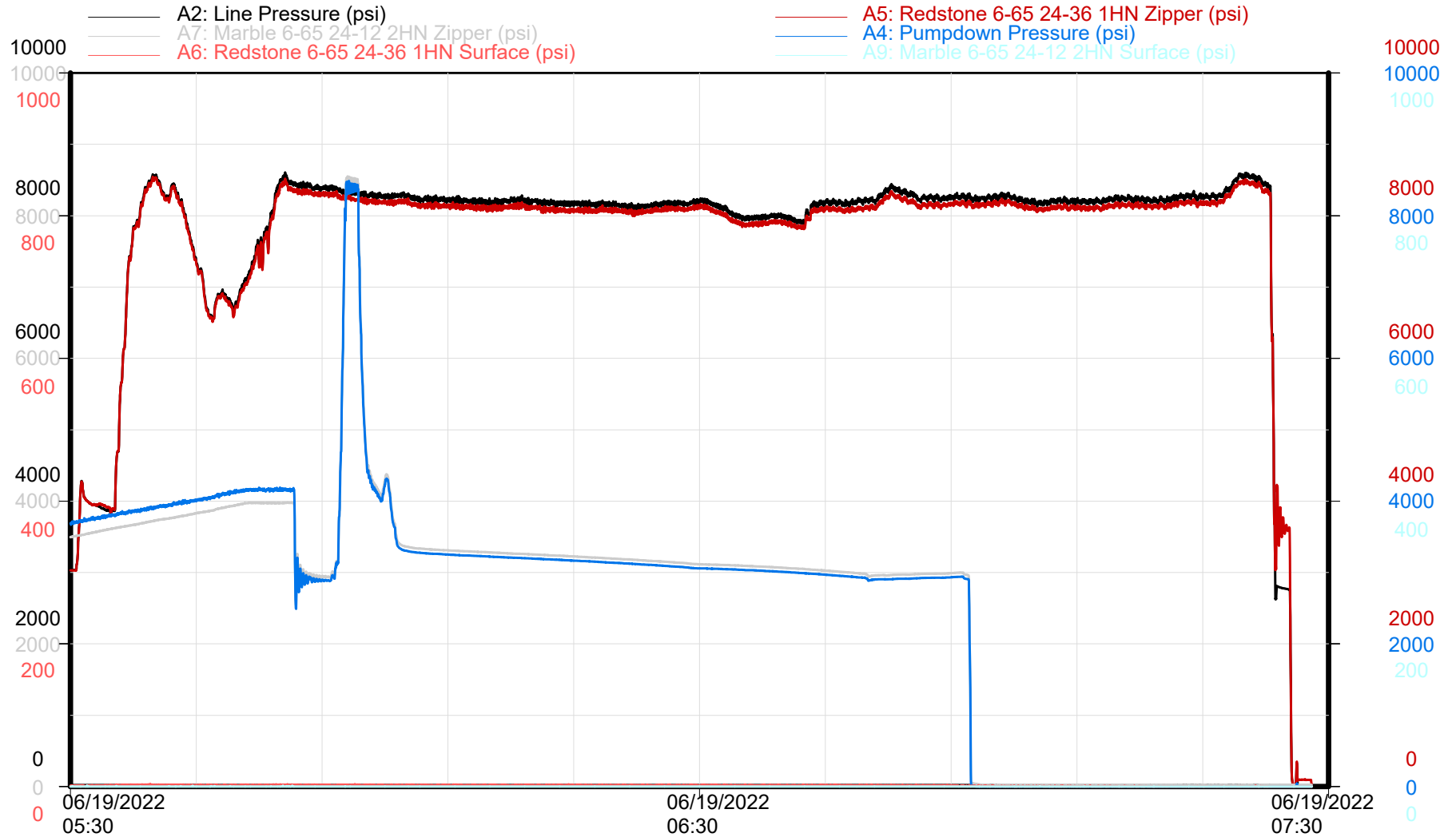
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 08



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 08 of 60



Zipper Pressures

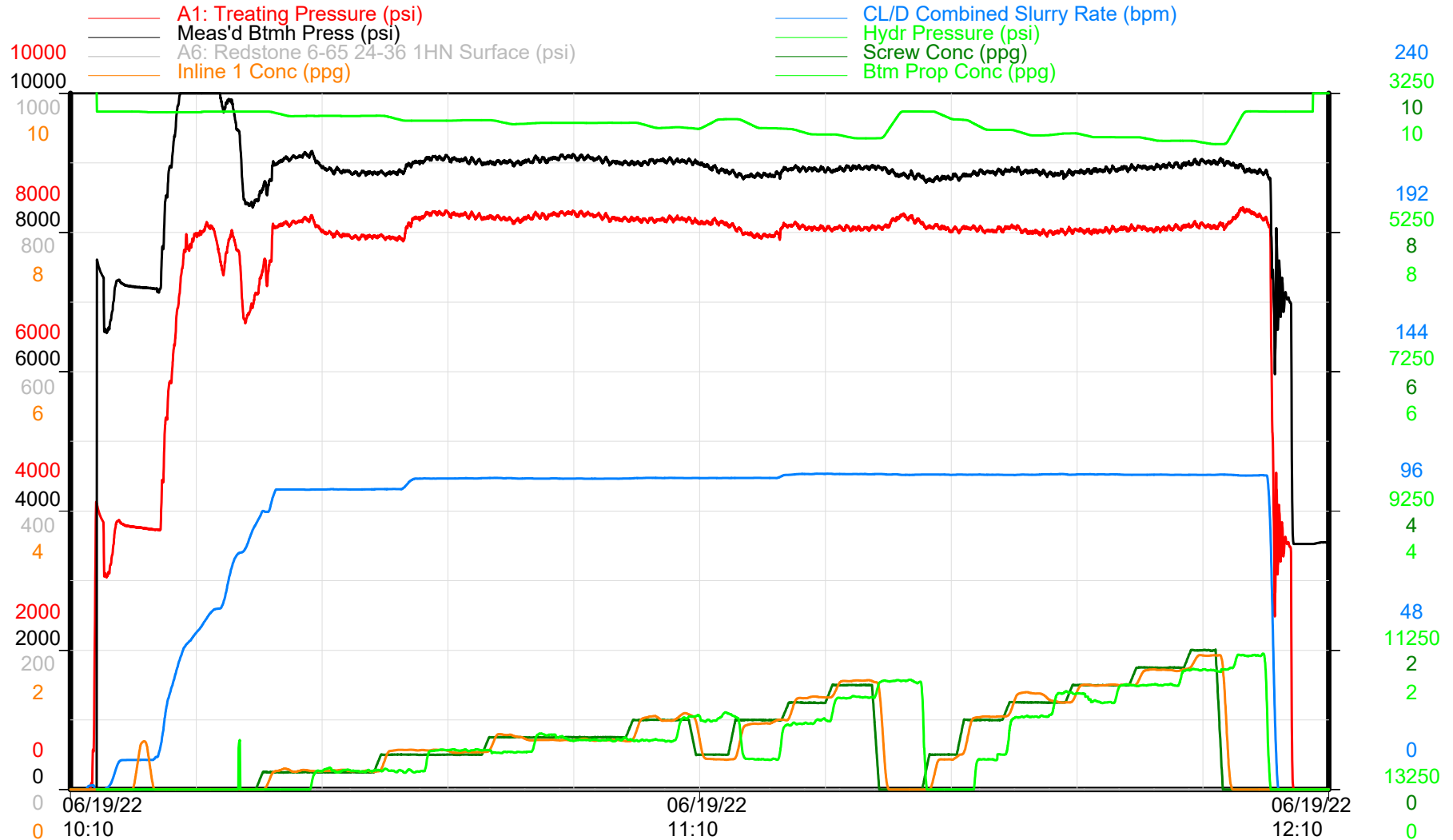
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 09

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 09 of 60



Treatment Plot

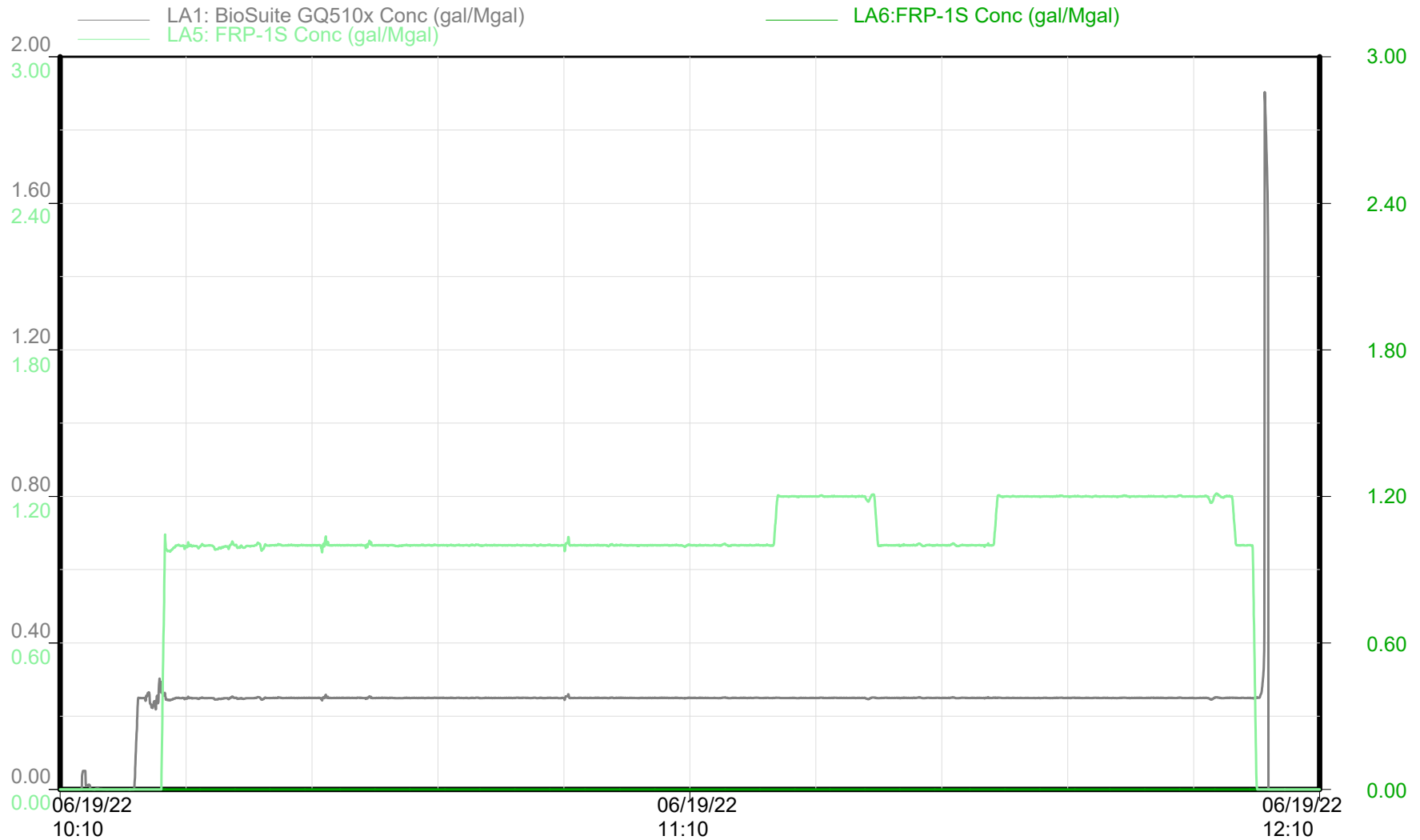
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 09 of 60



Chemical Additives

Time

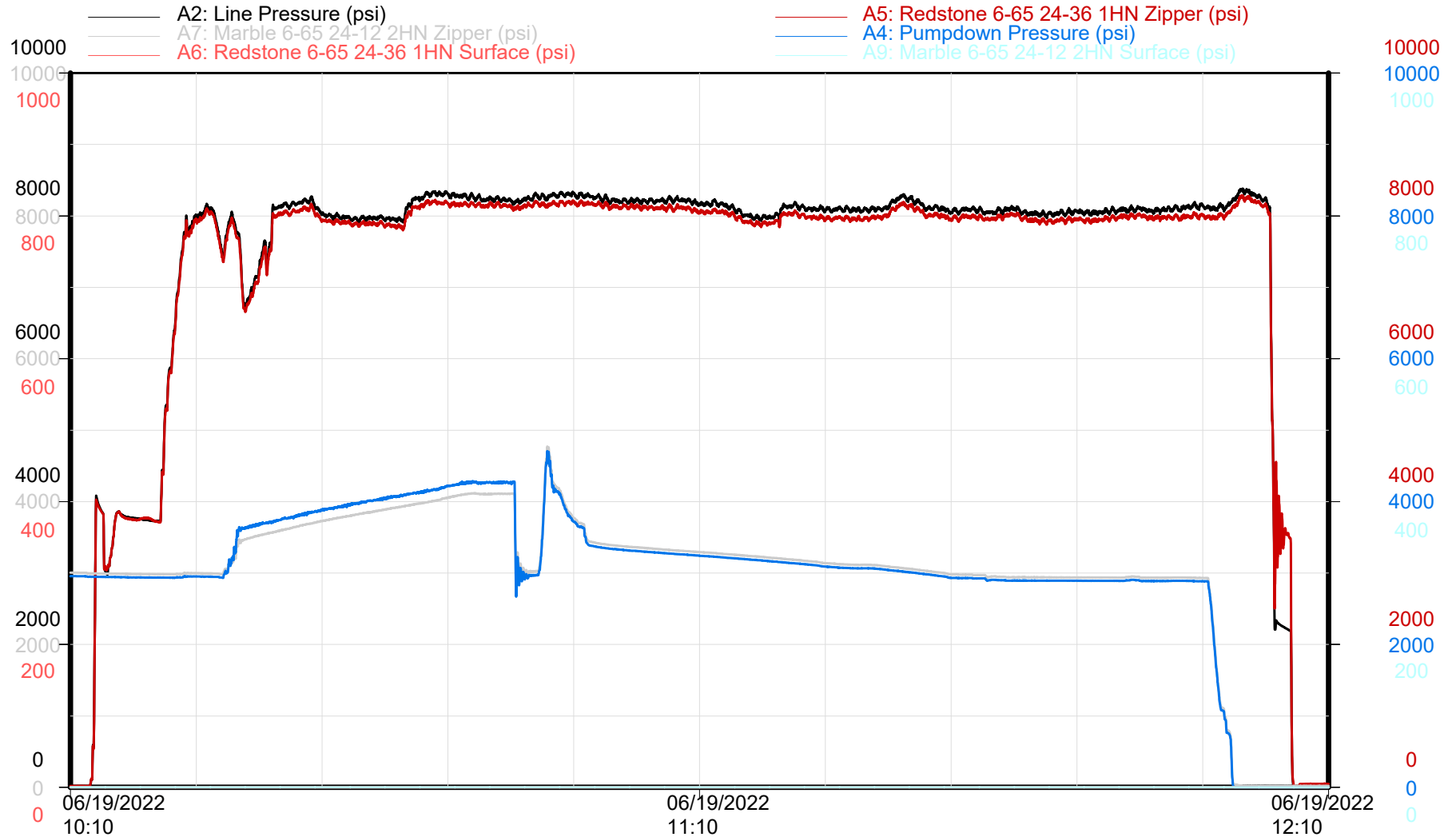
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 09



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 09 of 60



Zipper Pressures

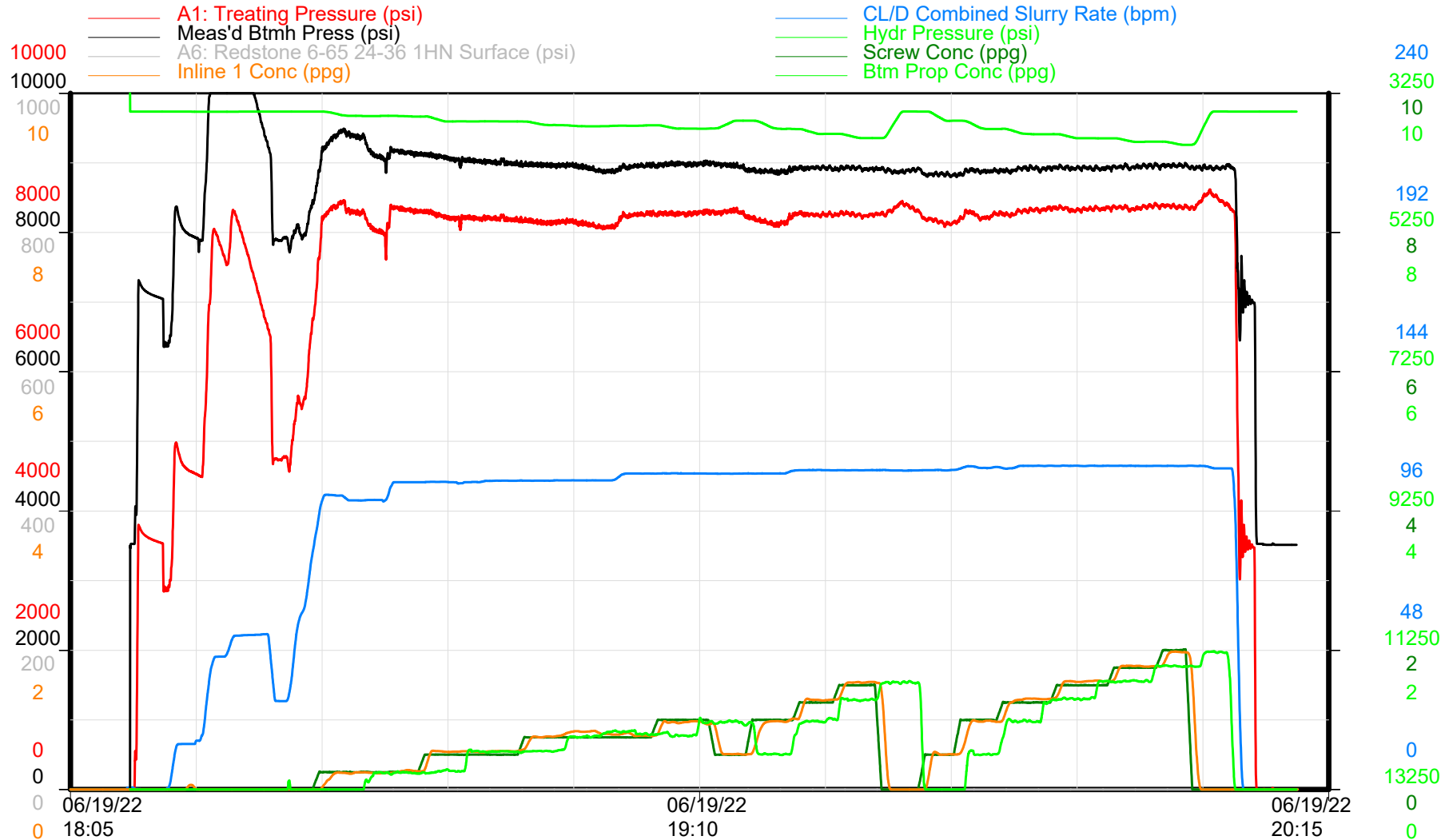
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 10

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 10 of 60



Treatment Plot

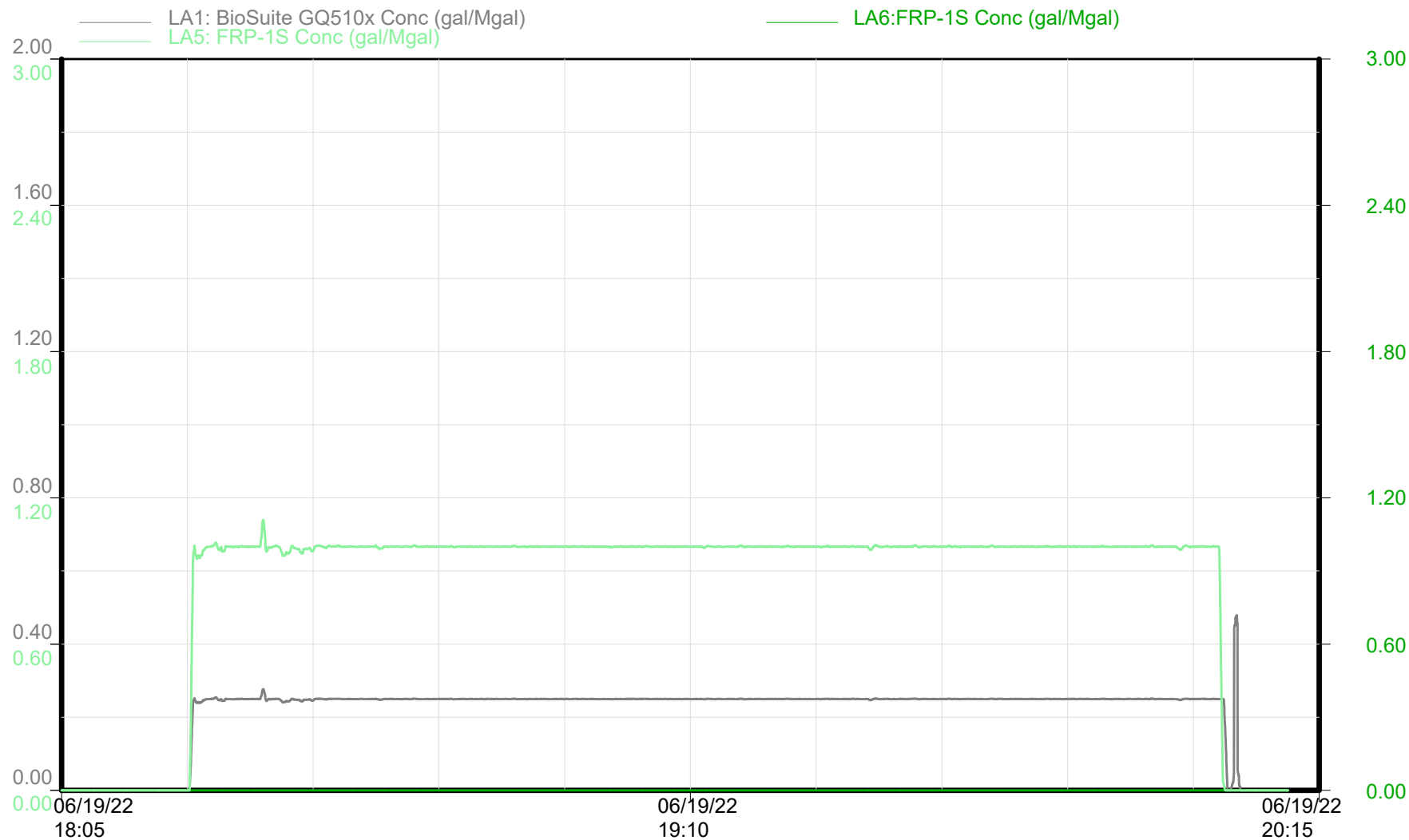
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 10 of 60



Chemical Additives

Time

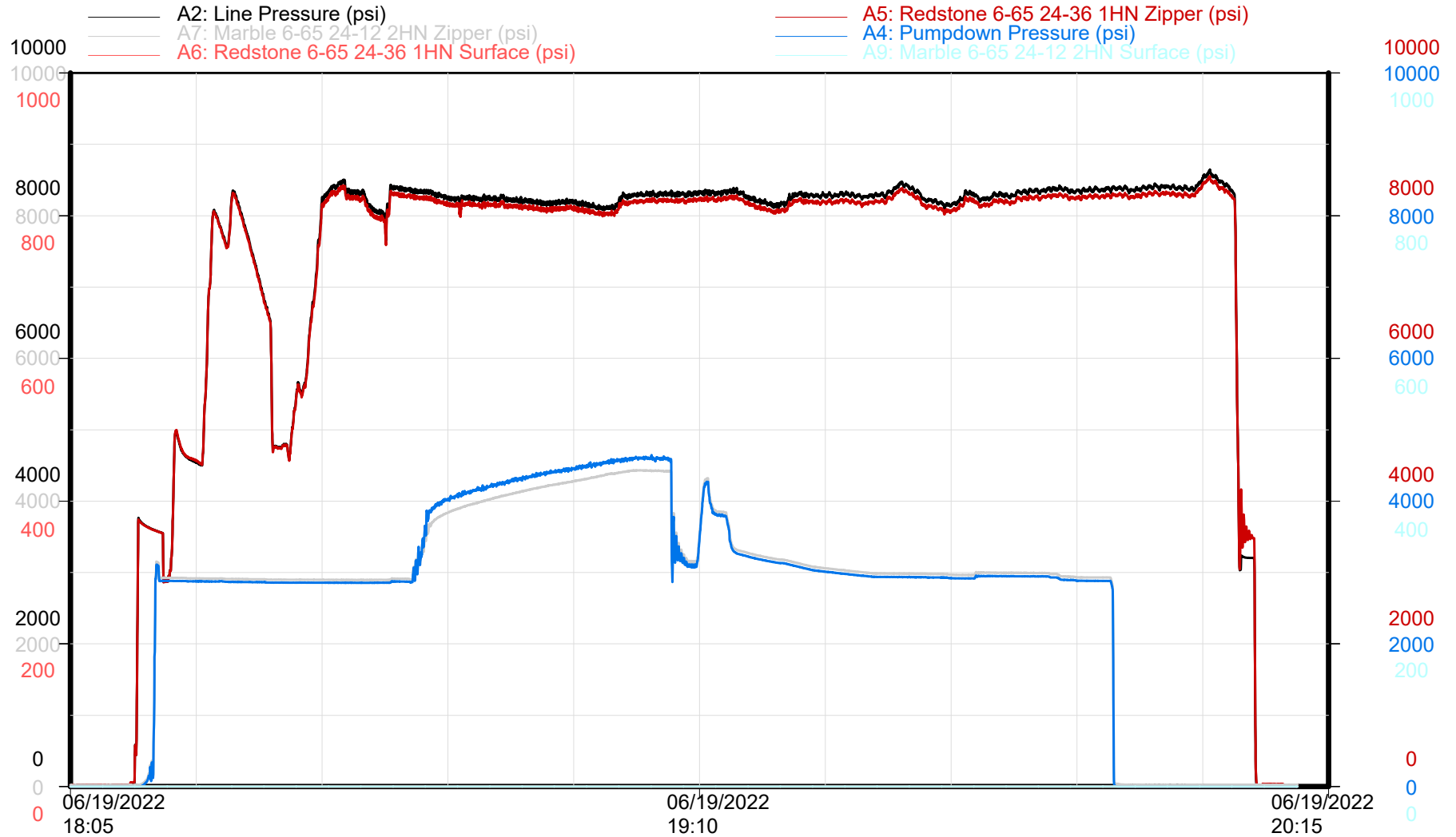
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 10



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 10 of 60



Zipper Pressures

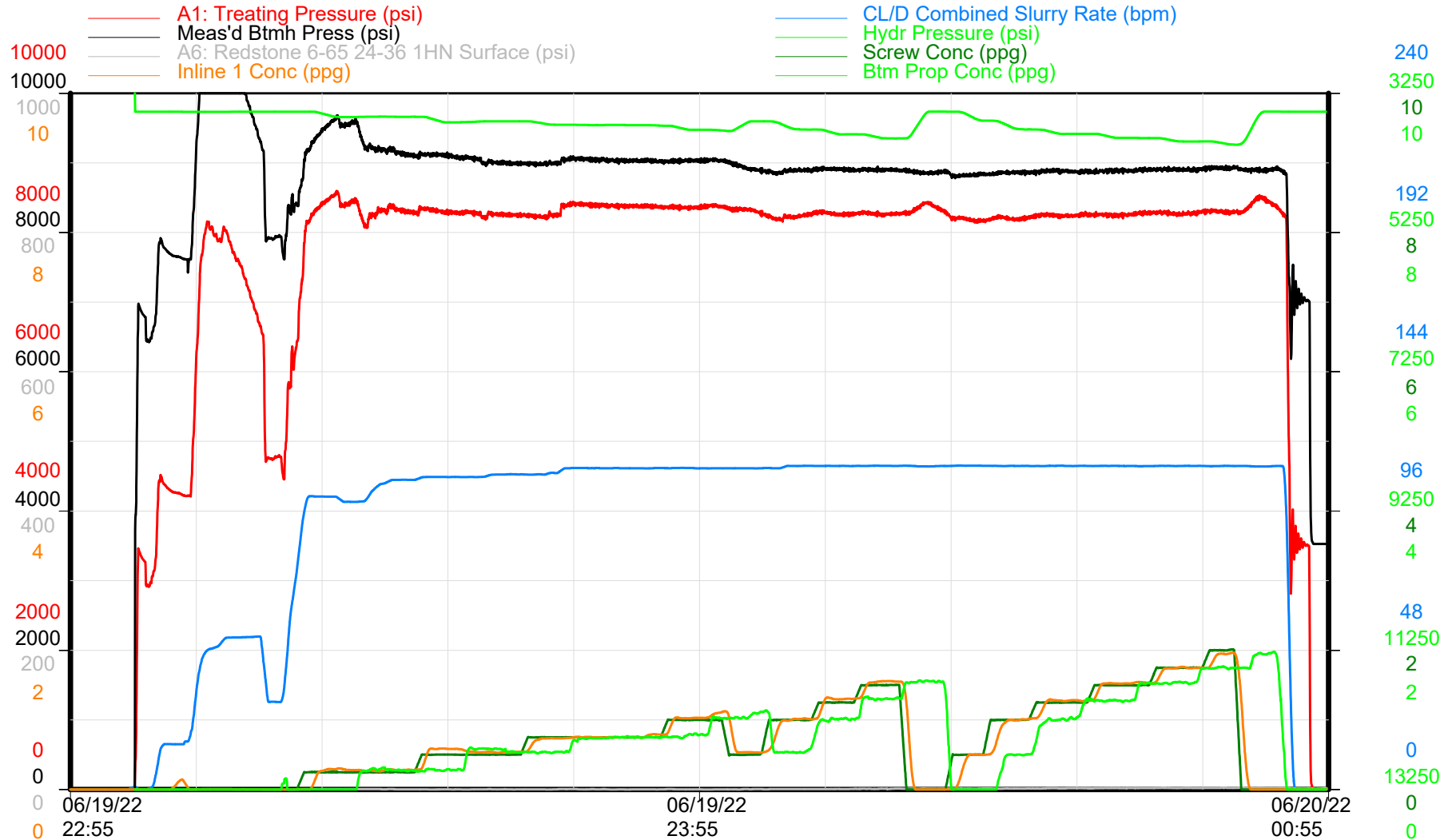
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 11

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 11 of 60



Treatment Plot

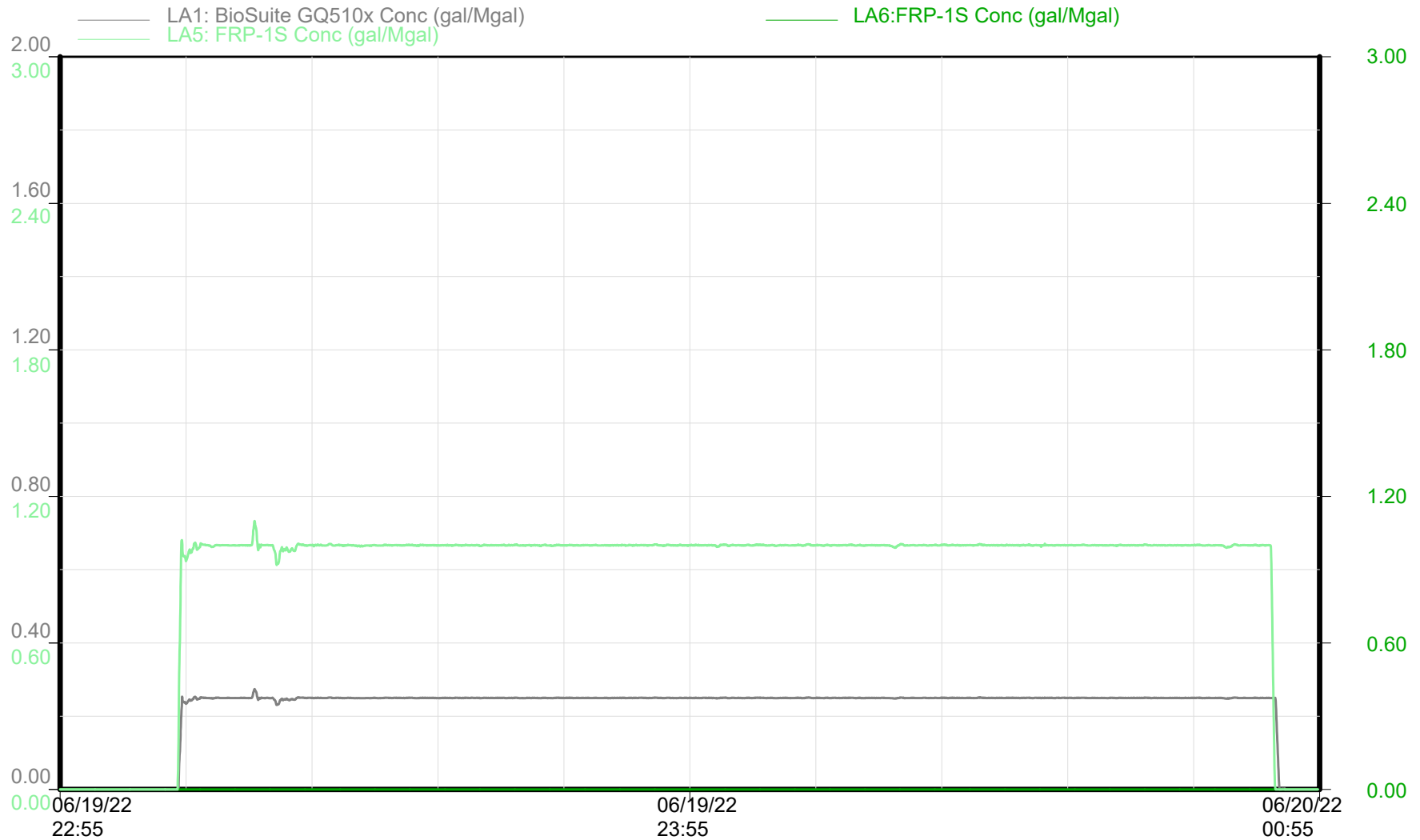
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 11 of 60



Chemical Additives

Time

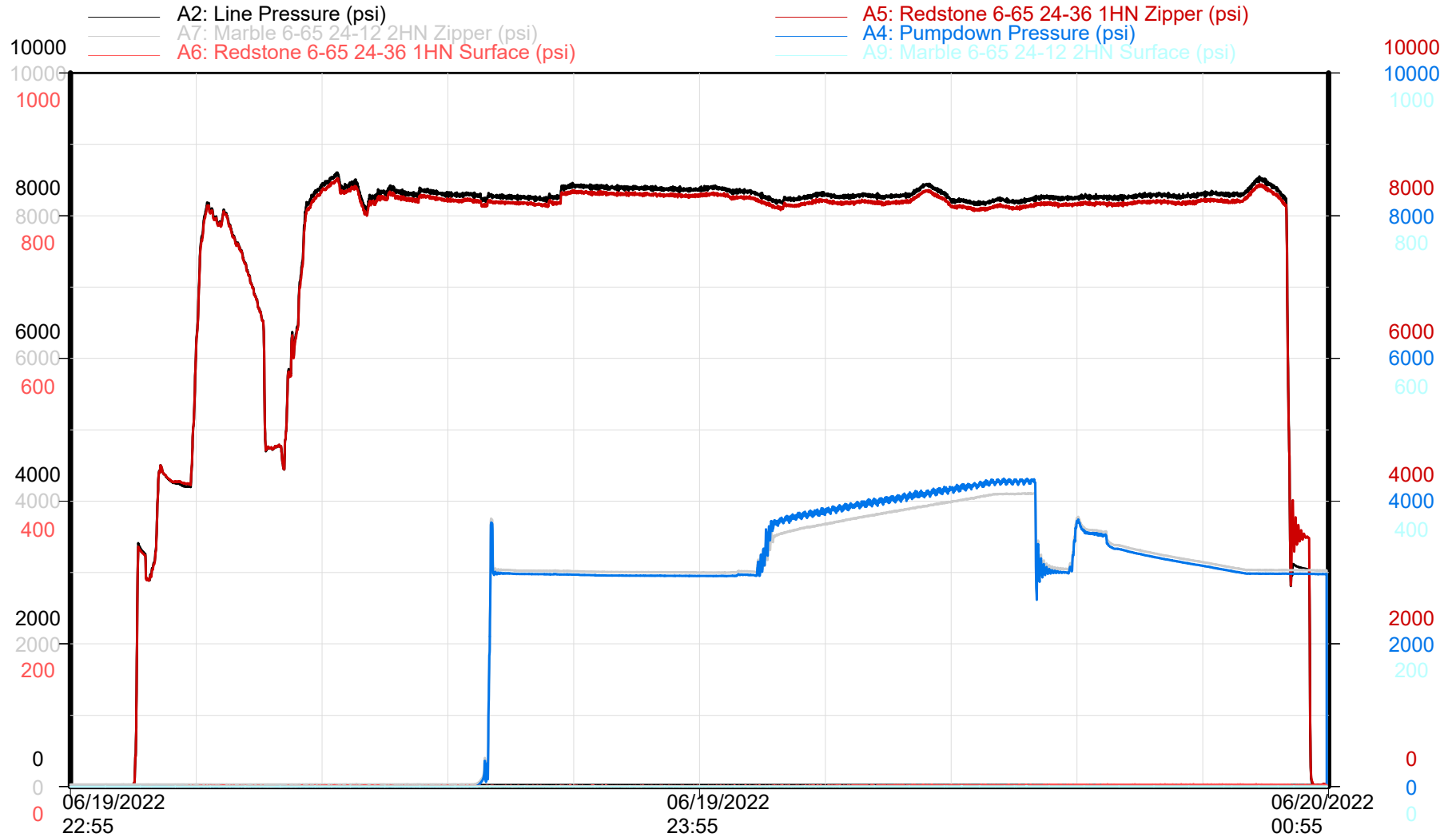
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 11



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 11 of 60



Zipper Pressures

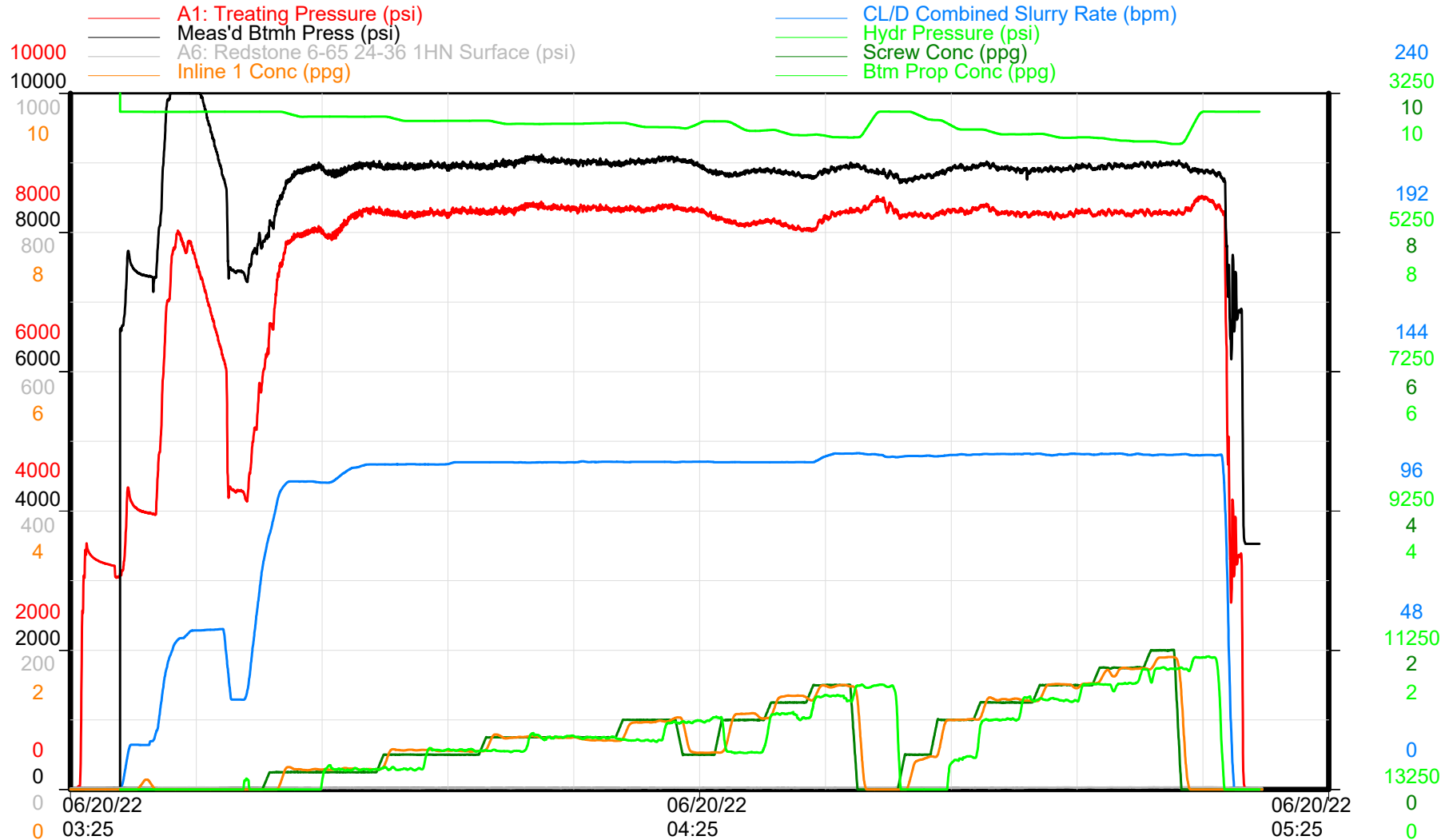
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 12

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 12 of 60



Treatment Plot

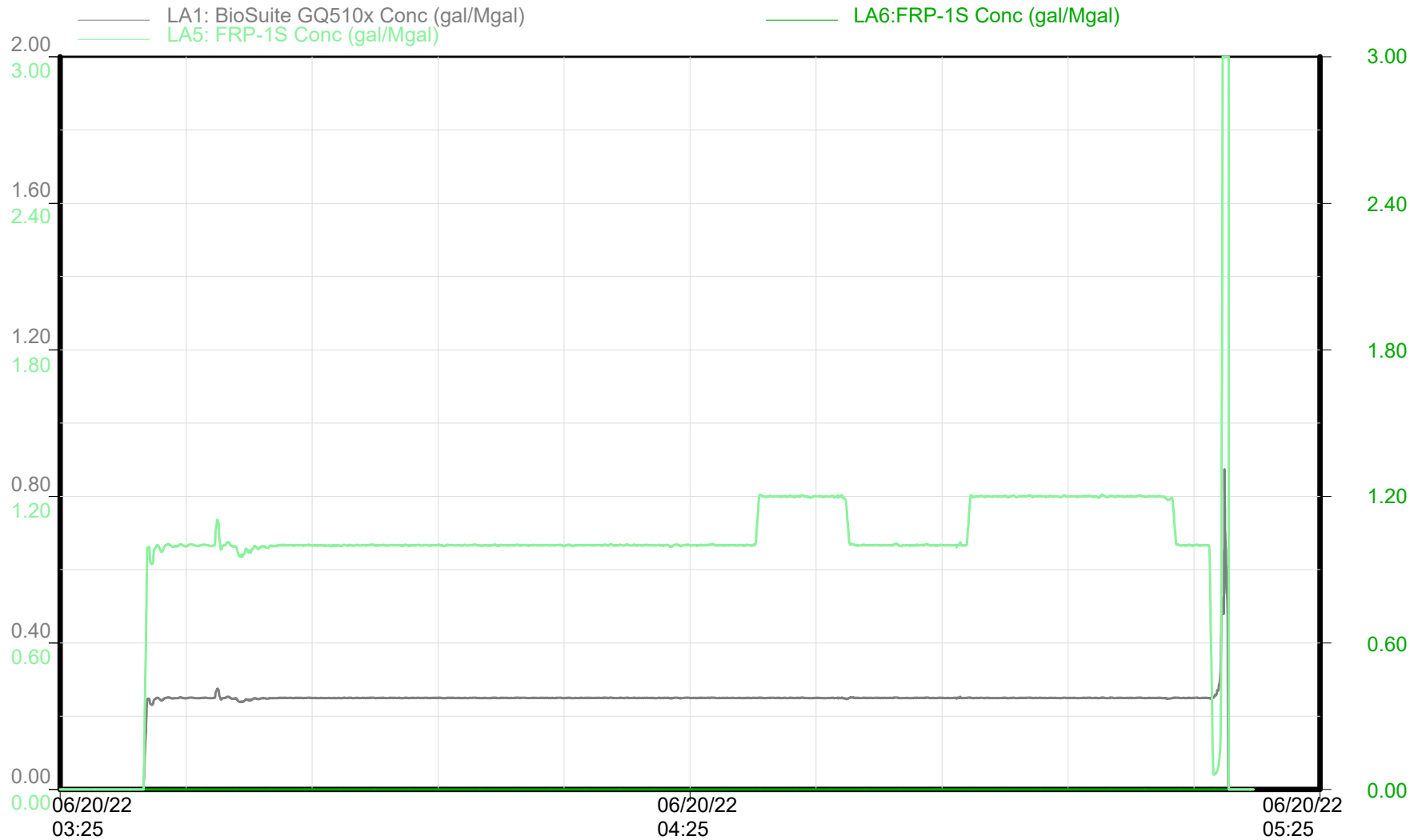
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 12 of 60



Chemical Additives

Time

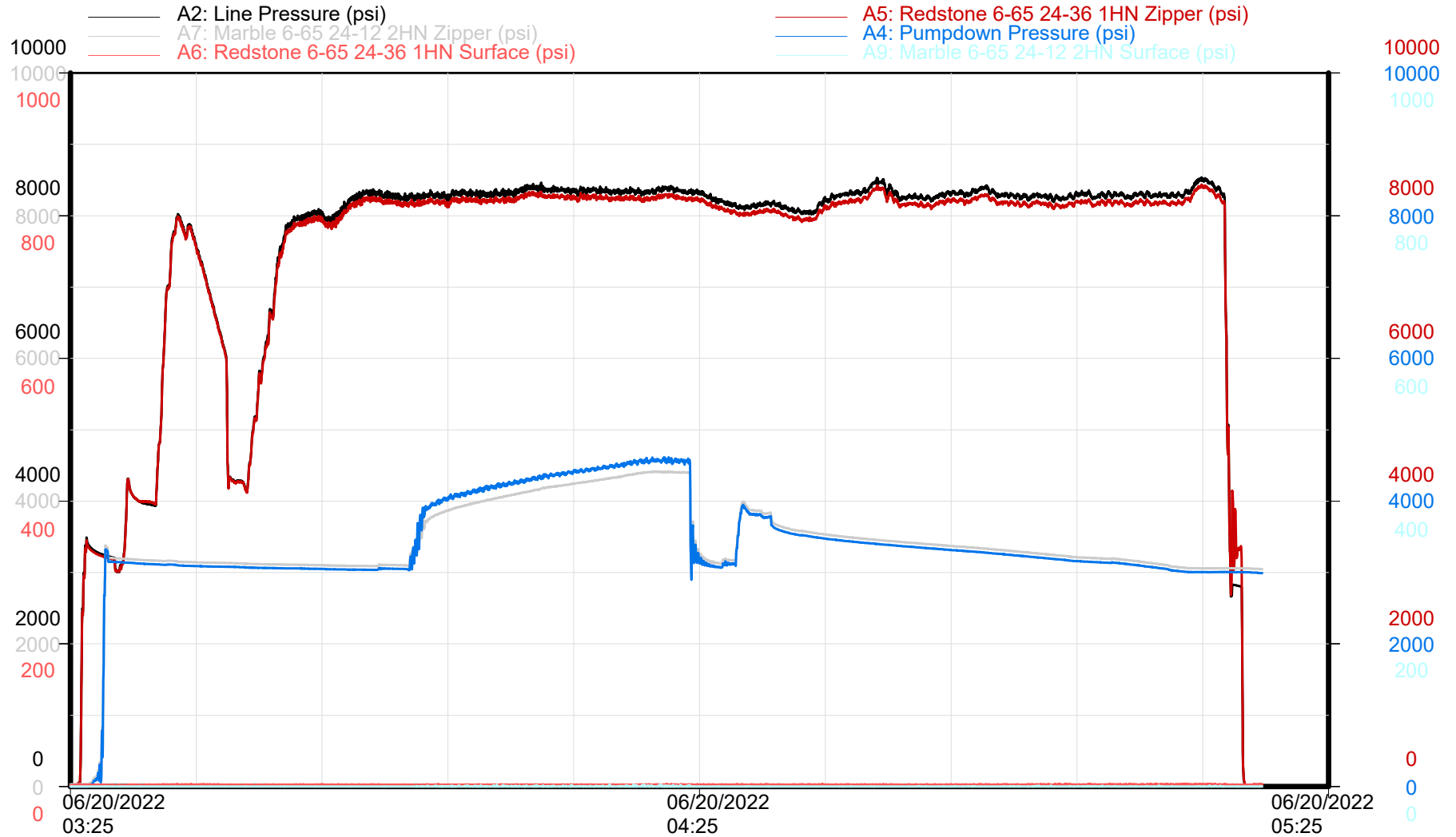
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 12



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 12 of 60



Zipper Pressures

Time

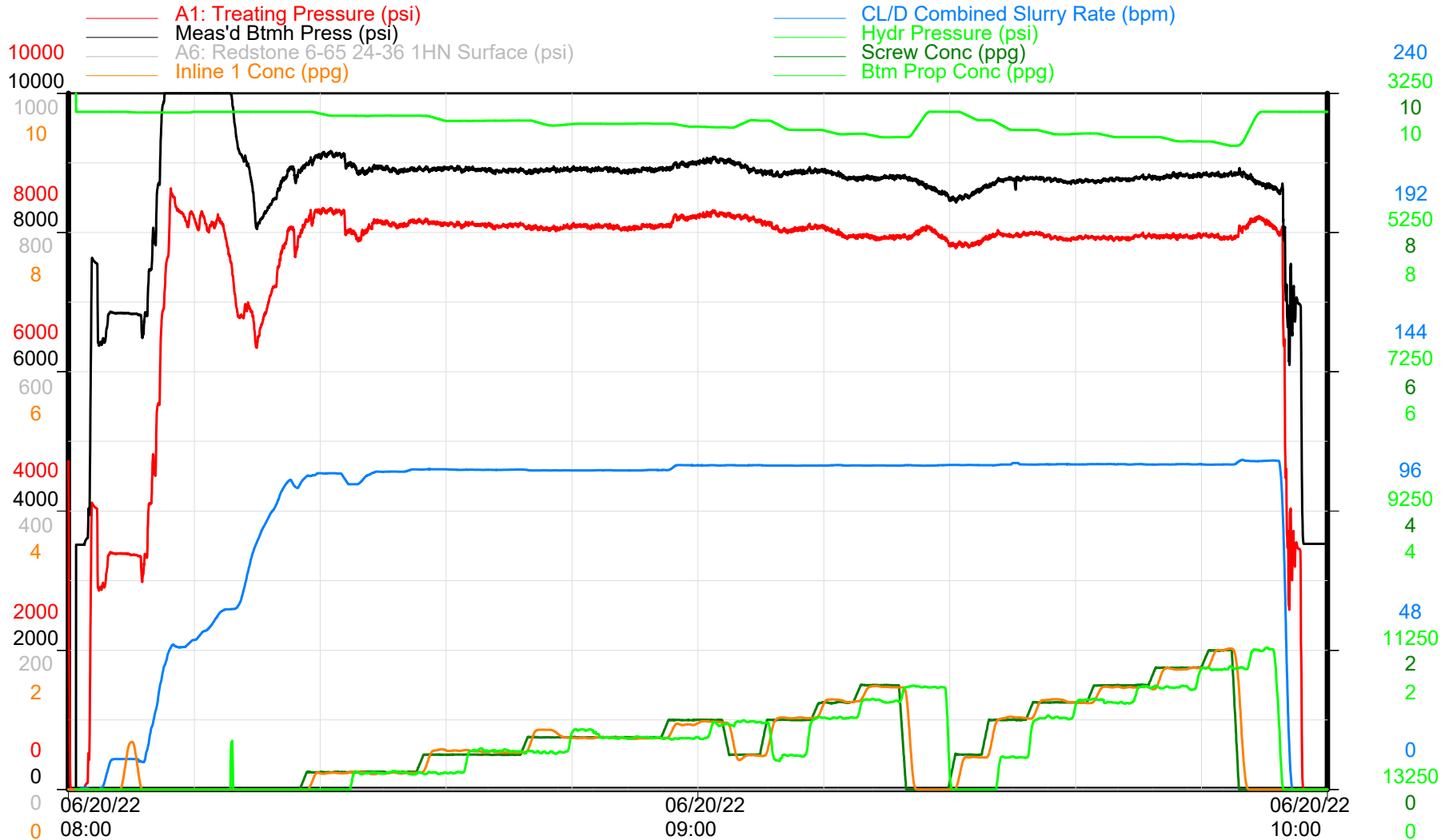
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 13



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 13 of 60



Treatment Plot

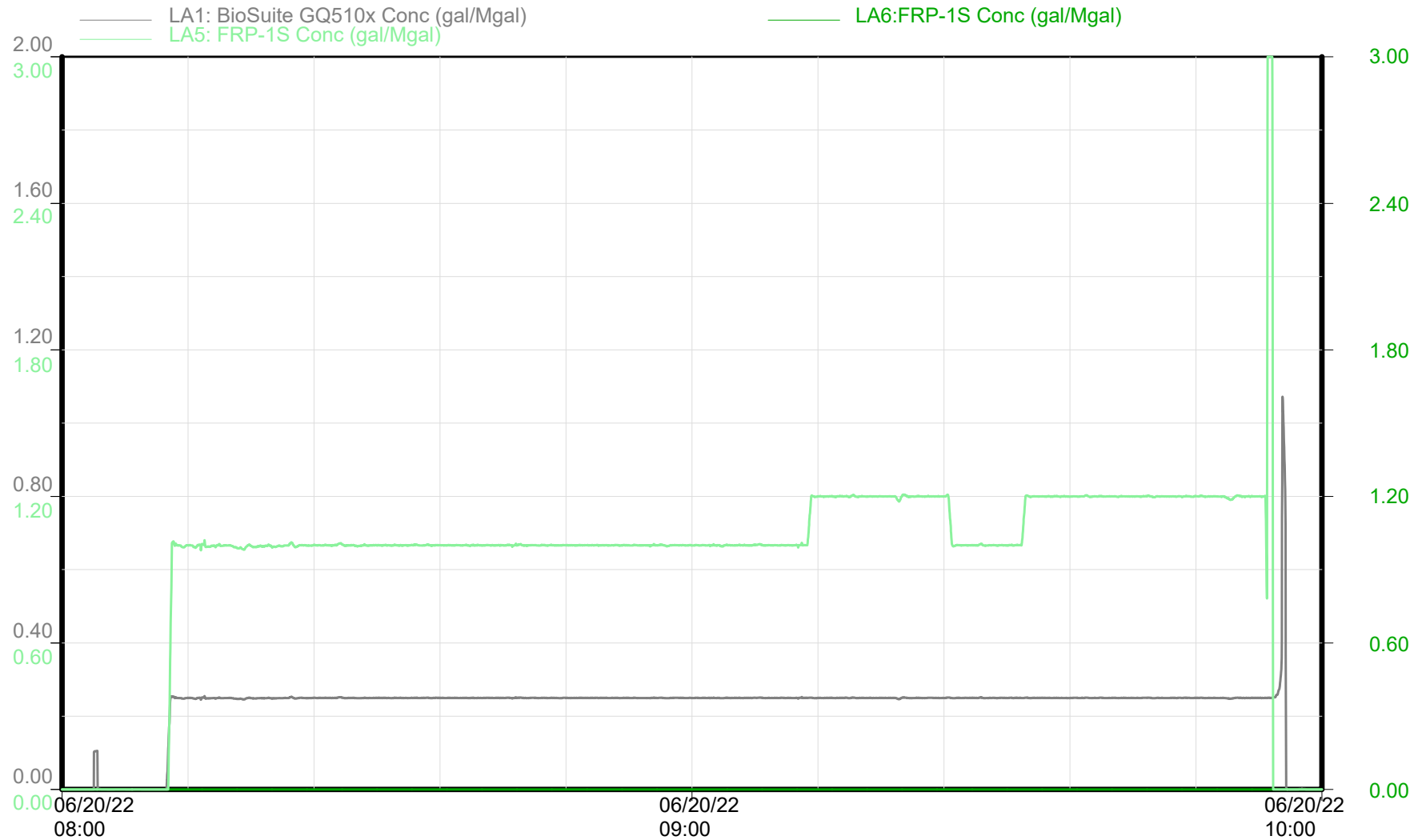
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 13 of 60



Chemical Additives

Time

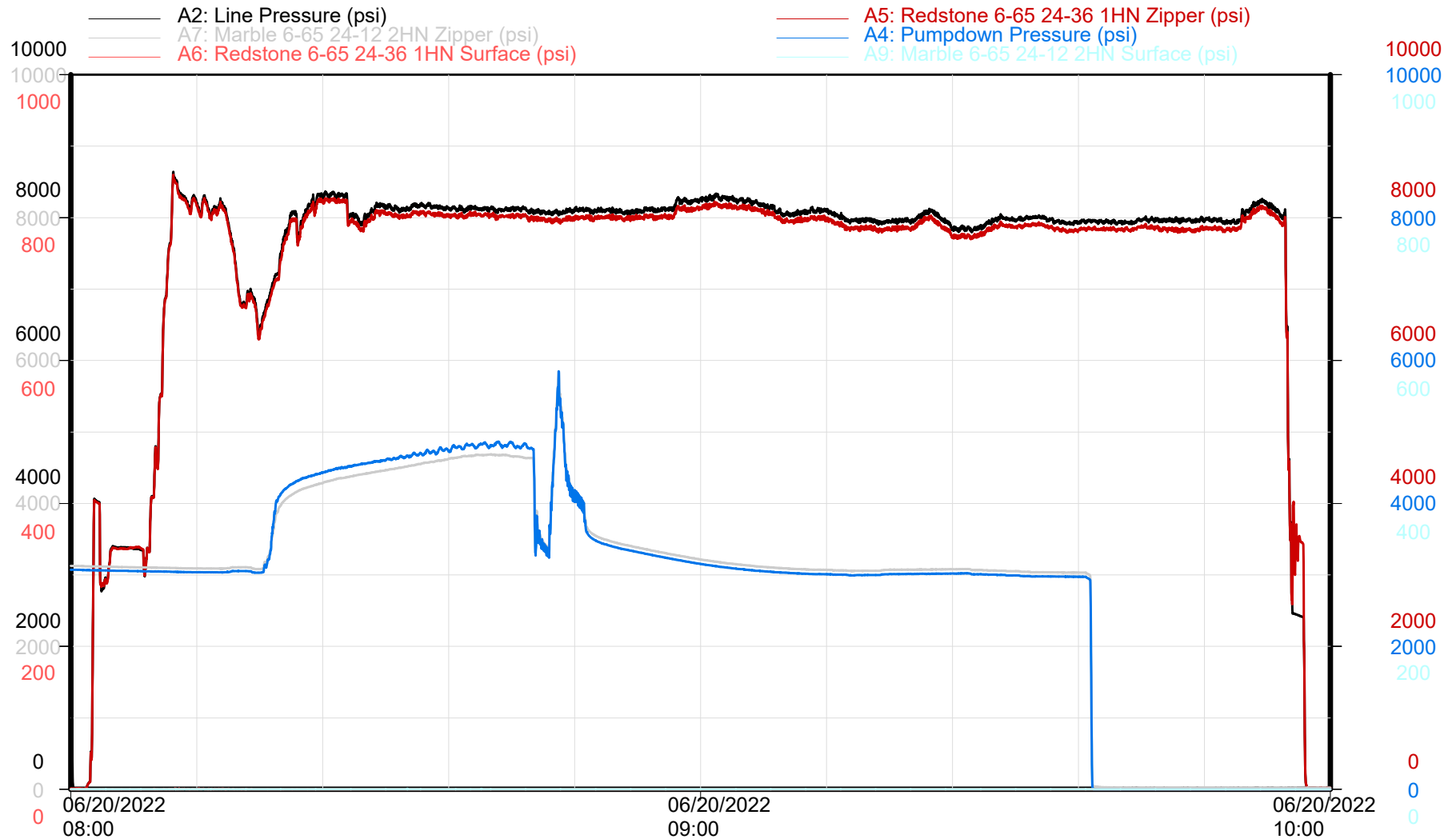
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 13



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 13 of 60



Zipper Pressures

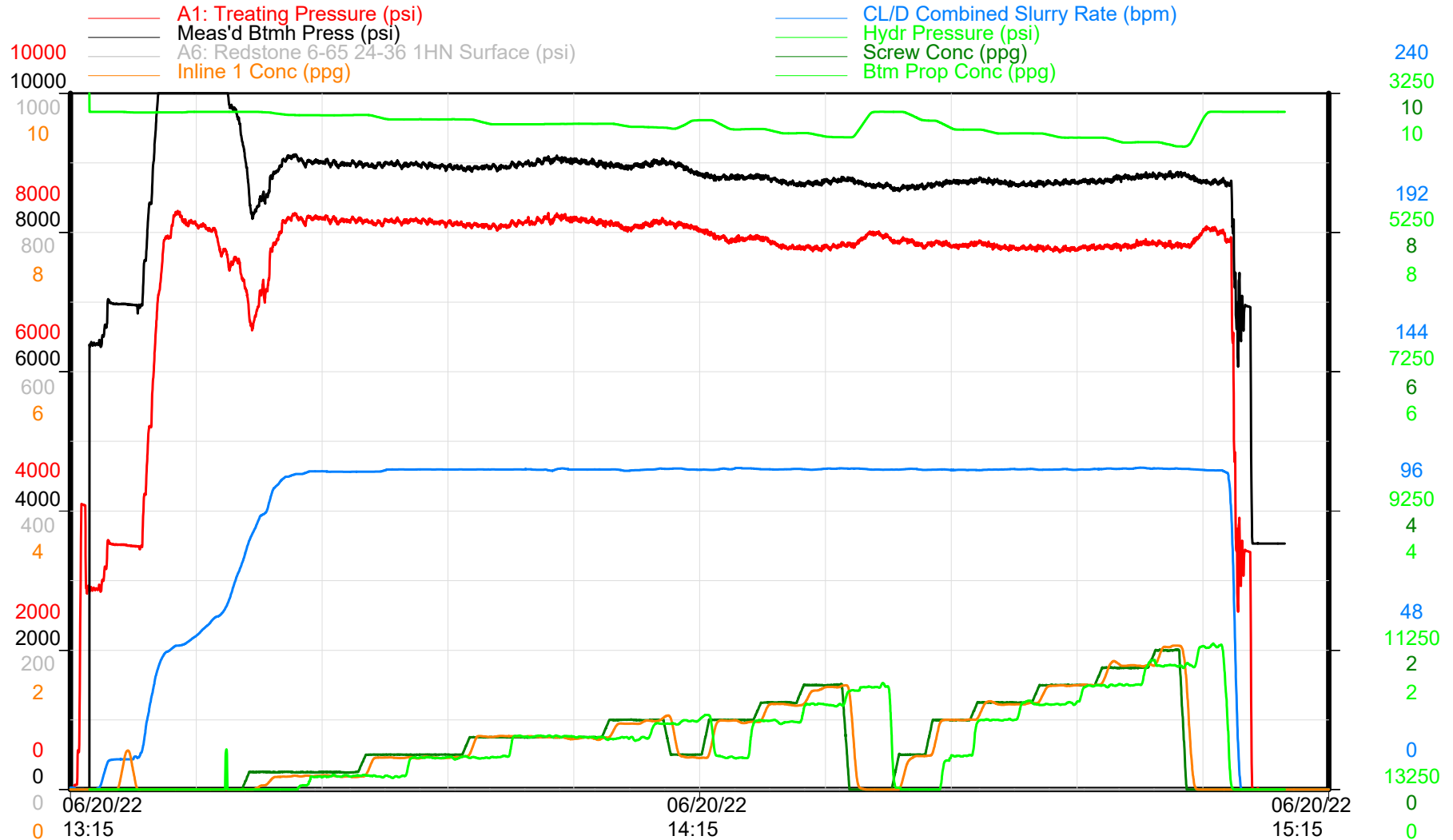
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 14

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 14 of 60



Treatment Plot

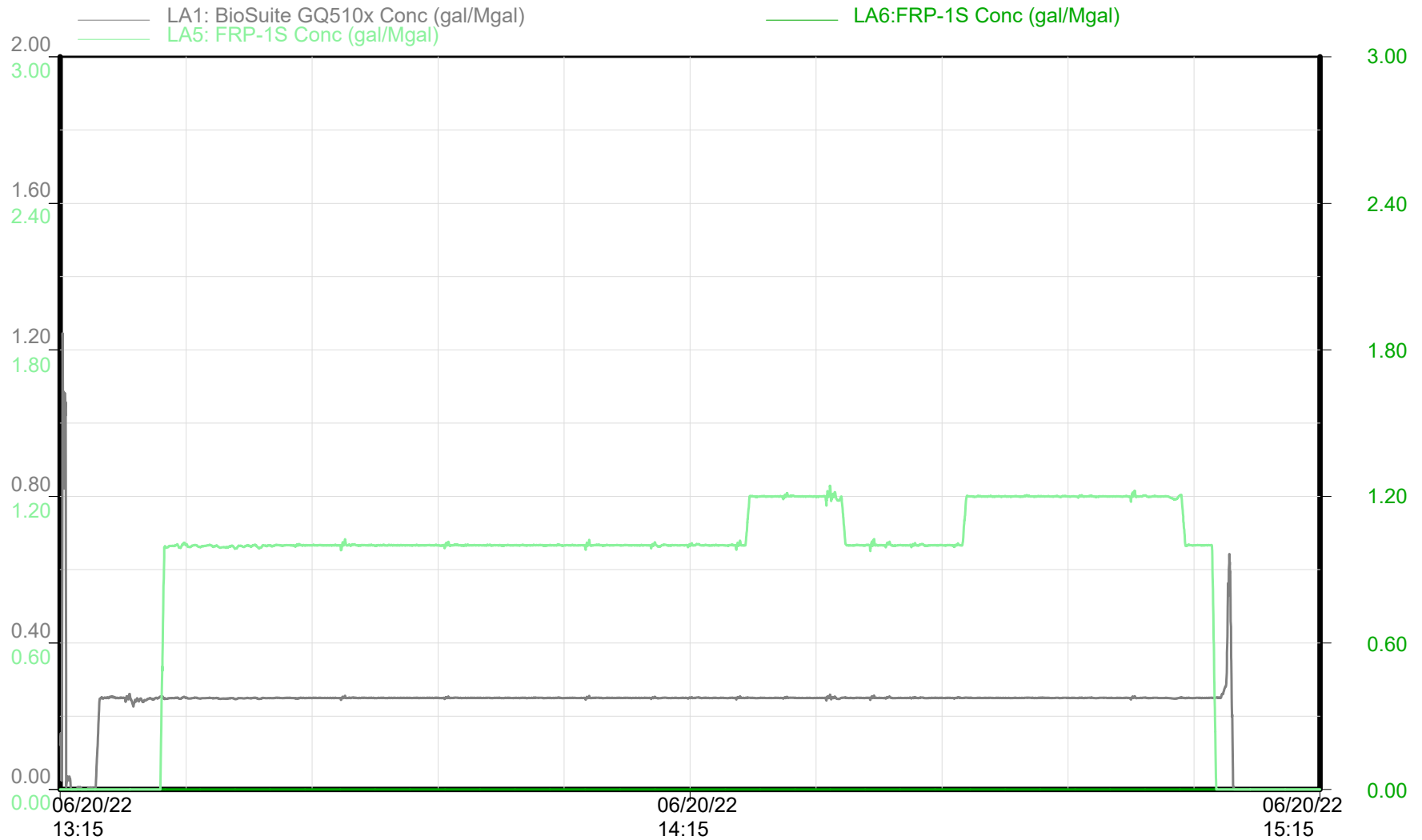
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 14 of 60



Chemical Additives

Time

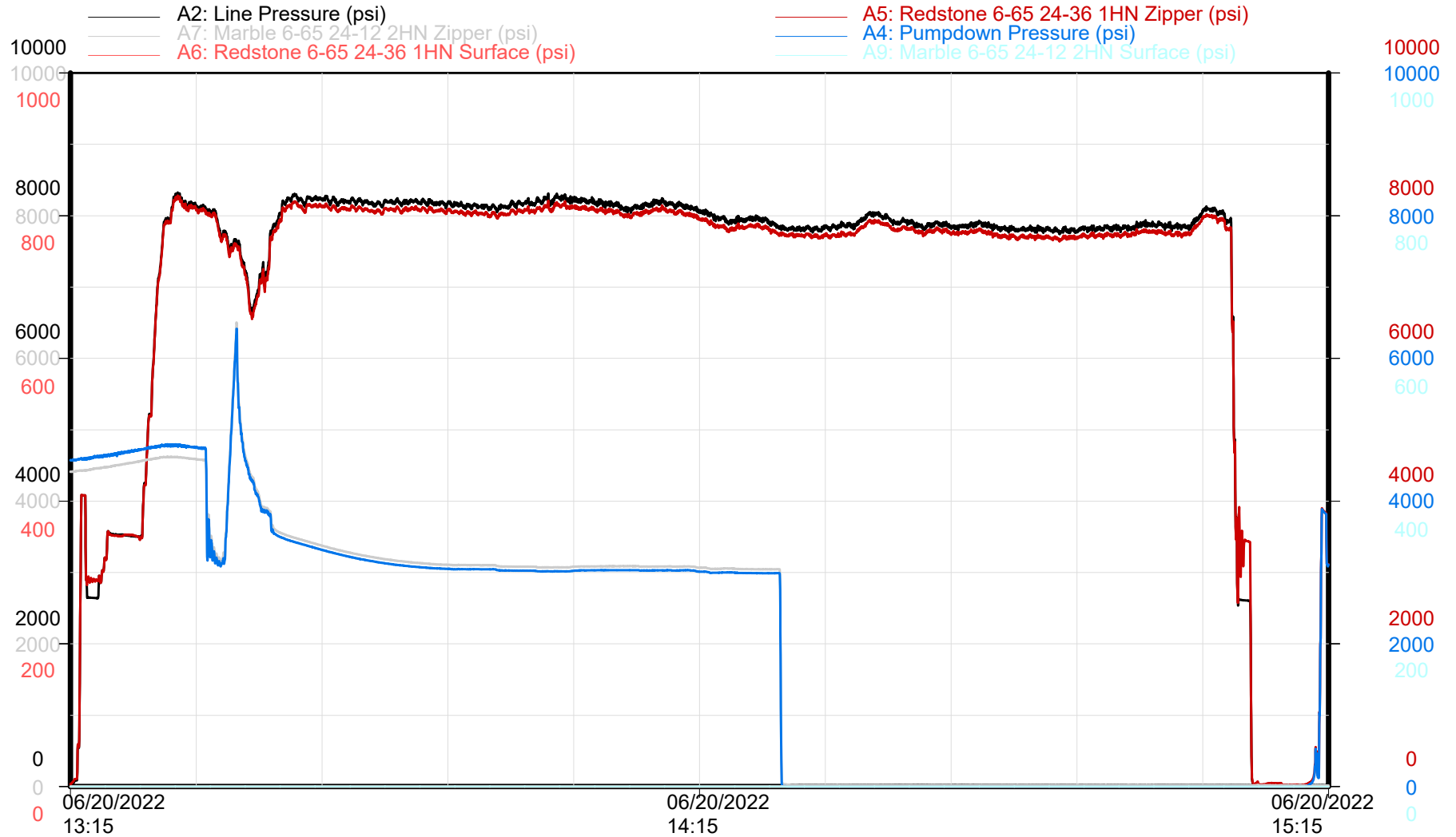
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 14



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 14 of 60



Zipper Pressures

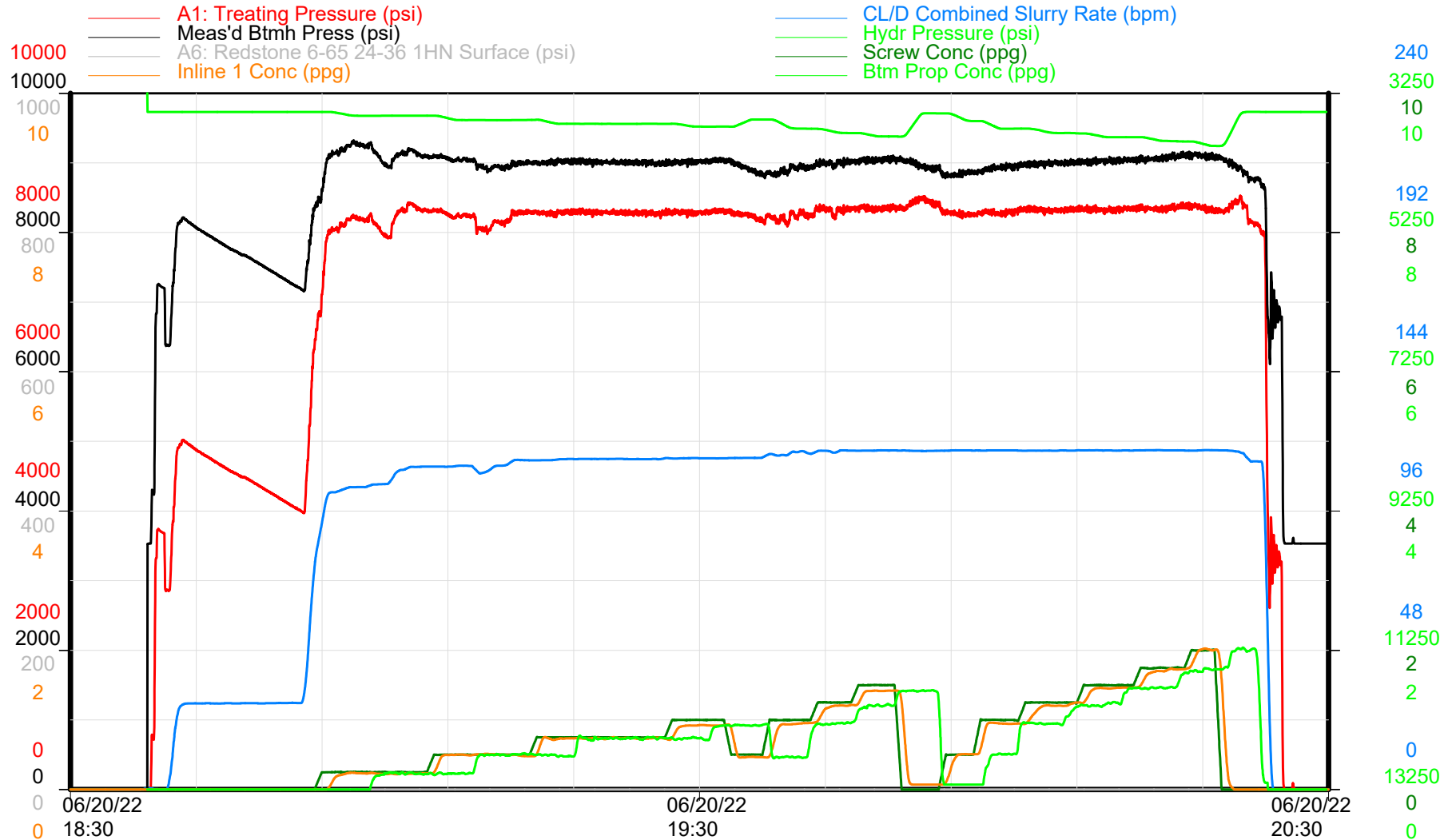
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 15

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 15 of 60



Treatment Plot

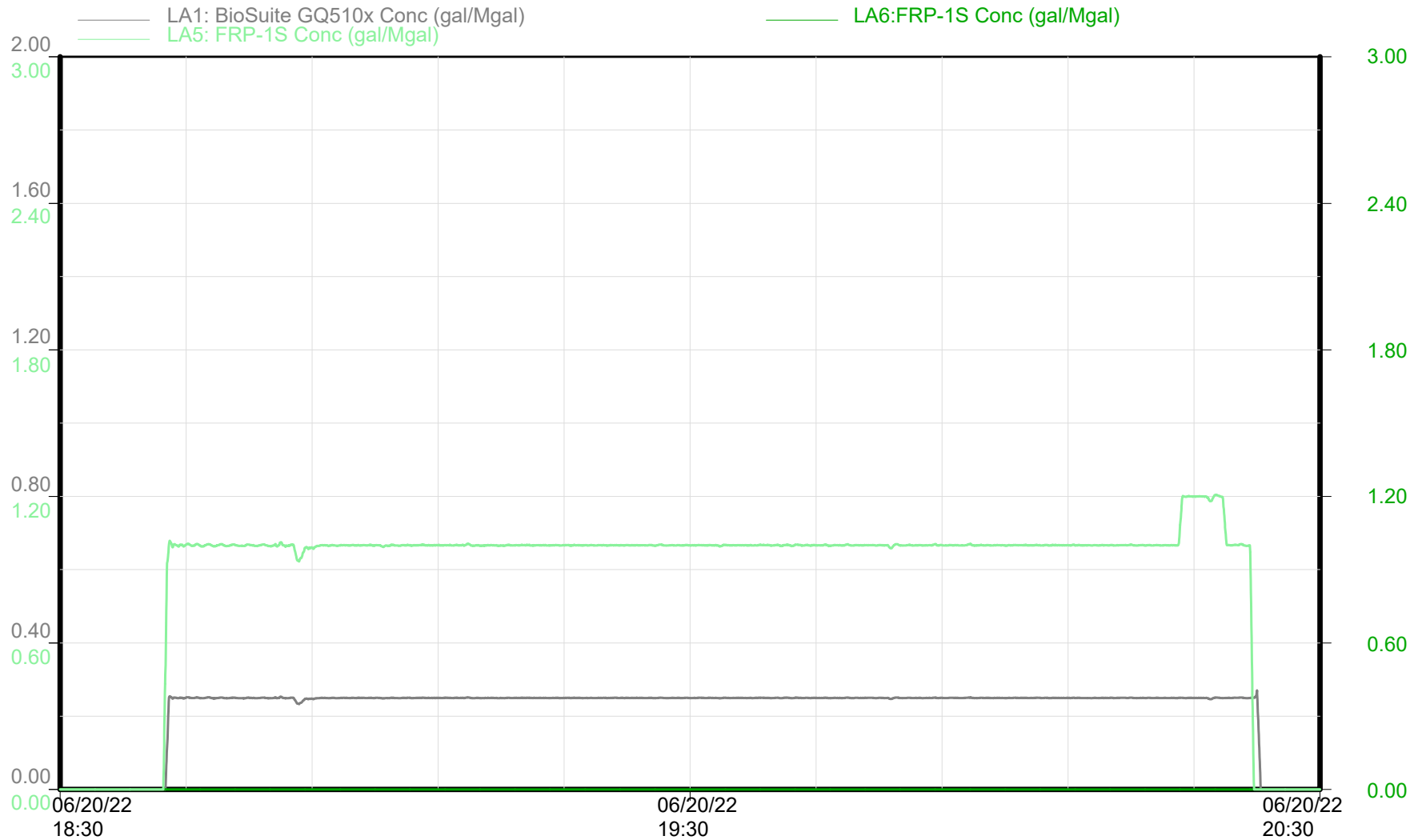
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 15 of 60



Chemical Additives

Time

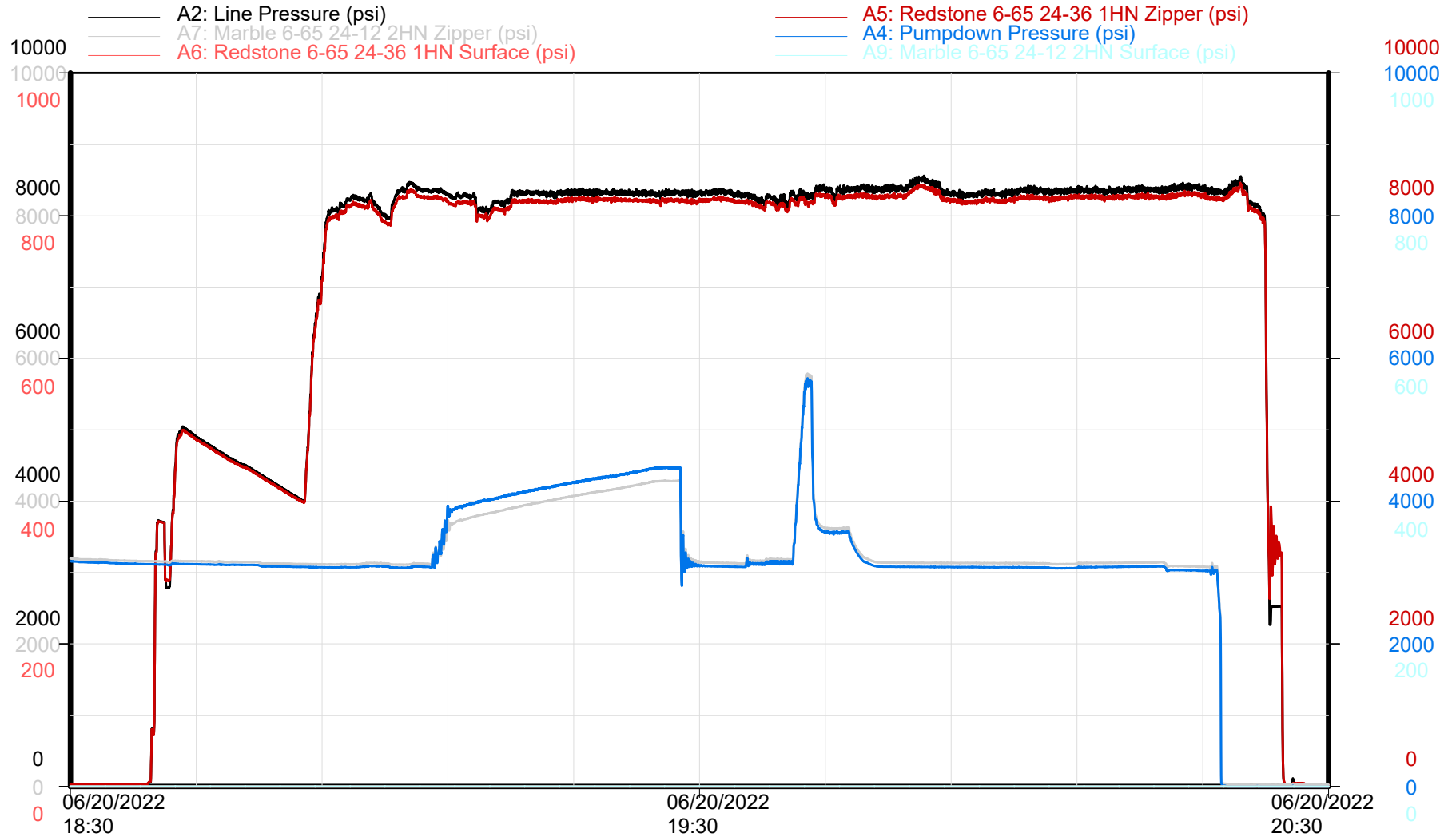
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 15



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 15 of 60



Zipper Pressures

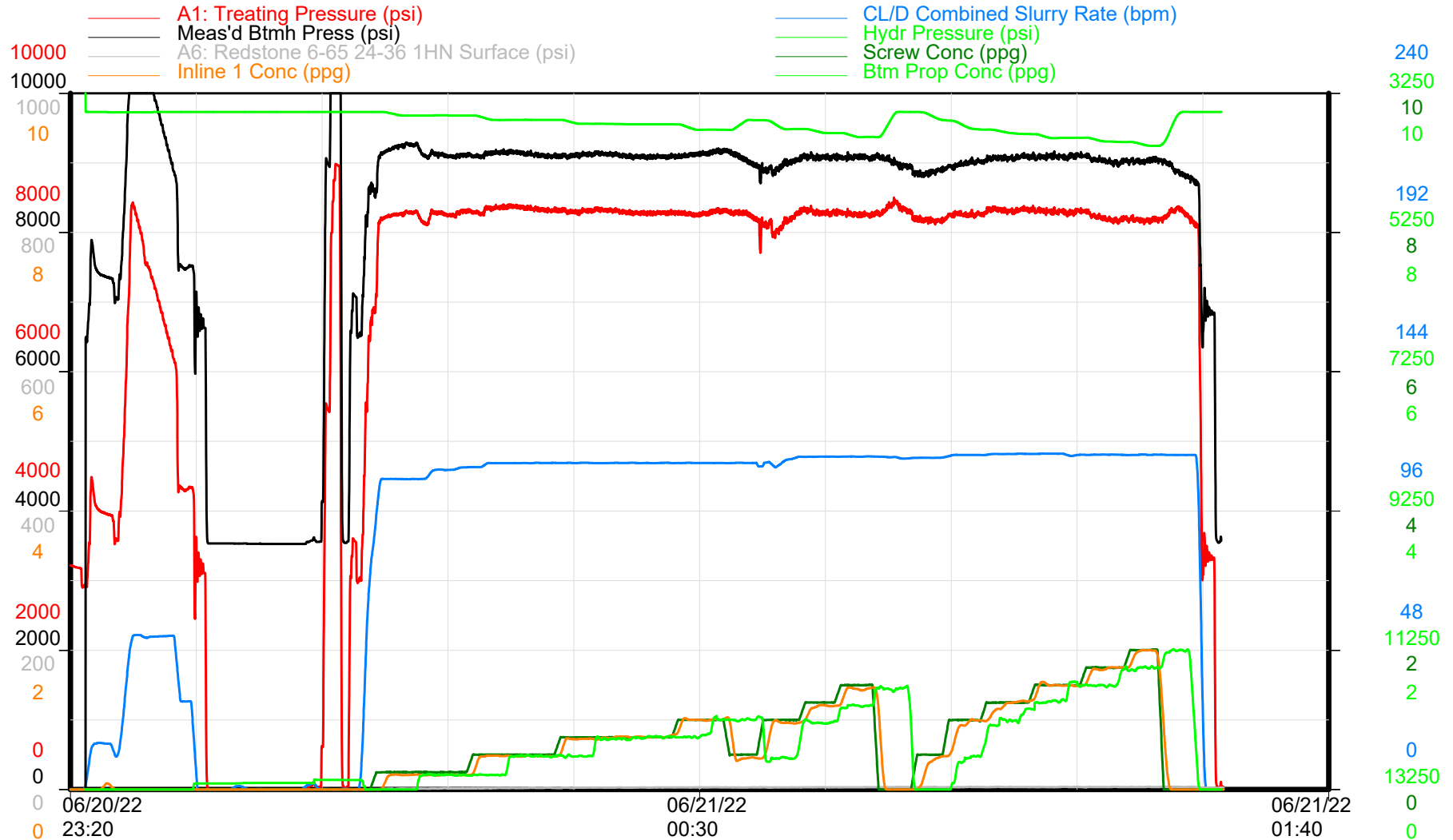
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 16

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 16 of 60



Treatment Plot

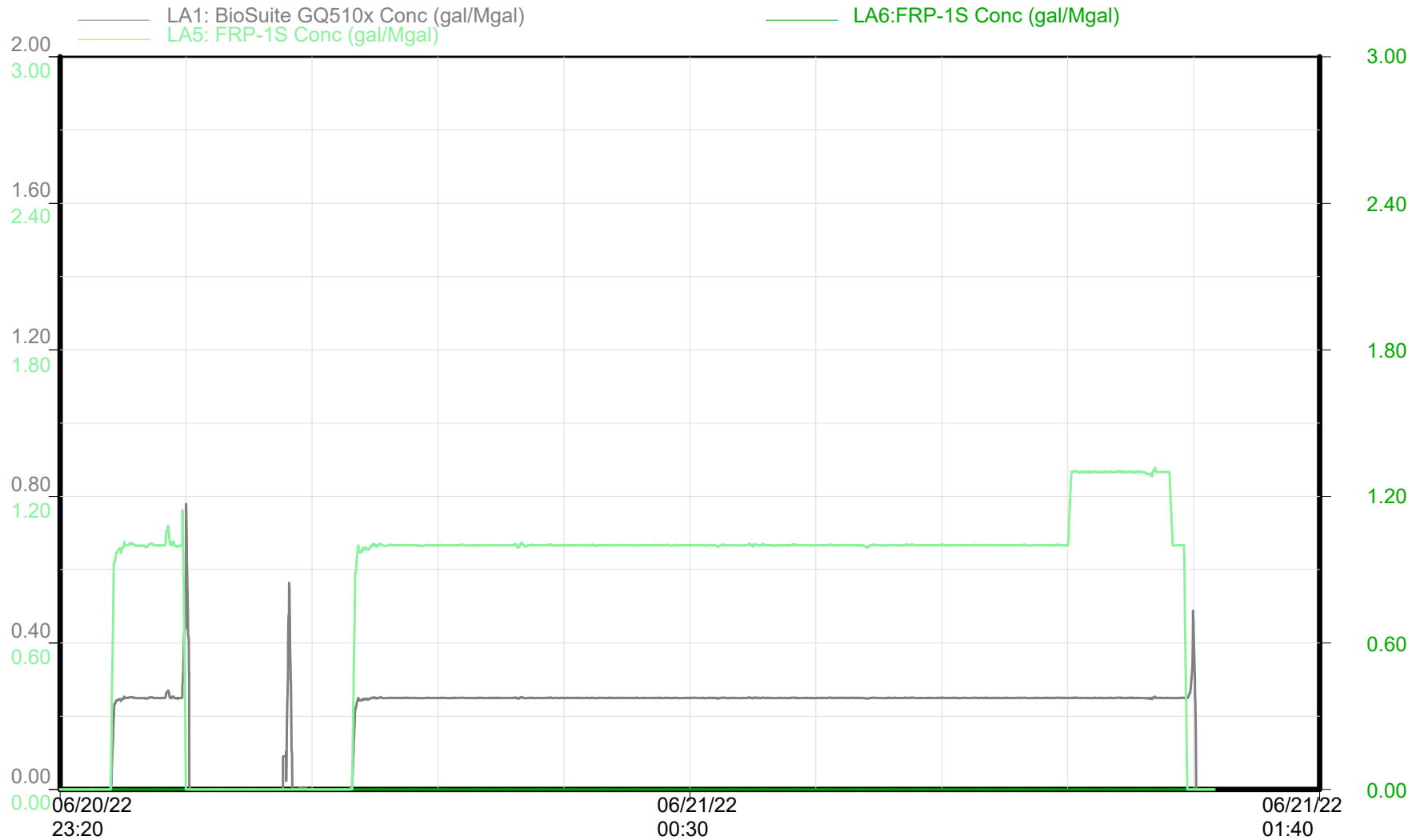
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 16 of 60



Chemical Additives

Time

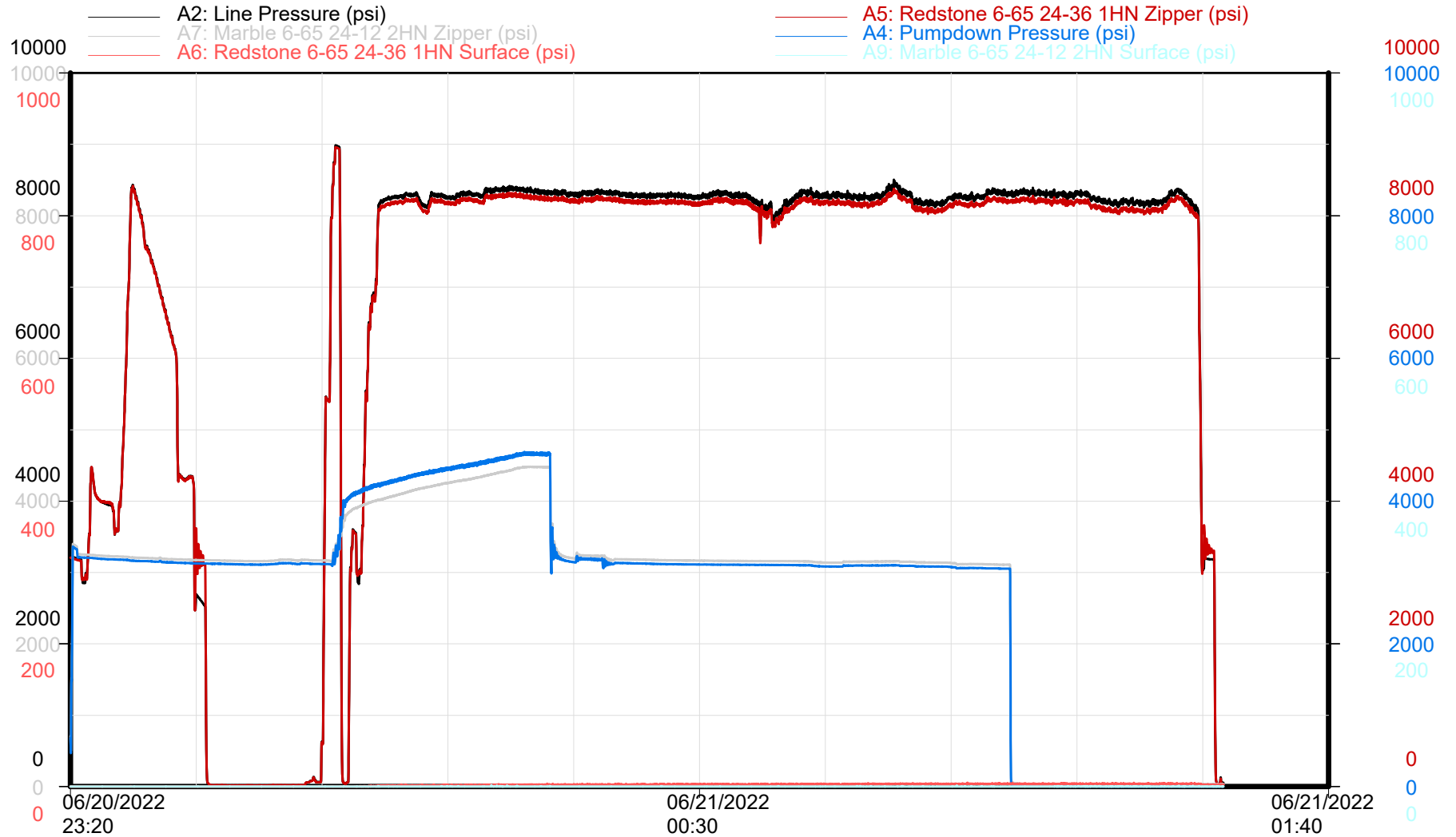
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 16



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 16 of 60



Zipper Pressures

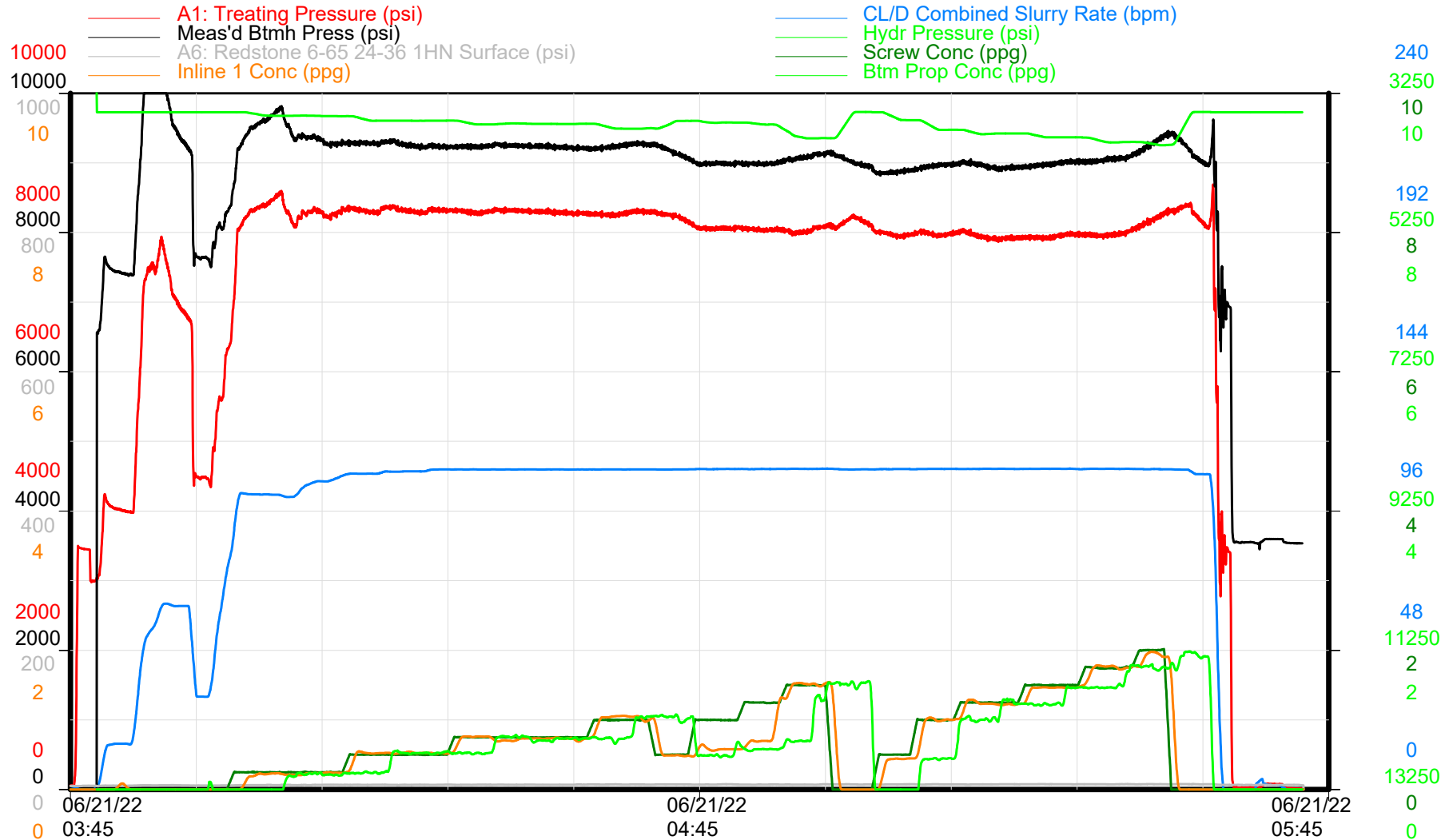
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 17

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 17 of 60



Treatment Plot

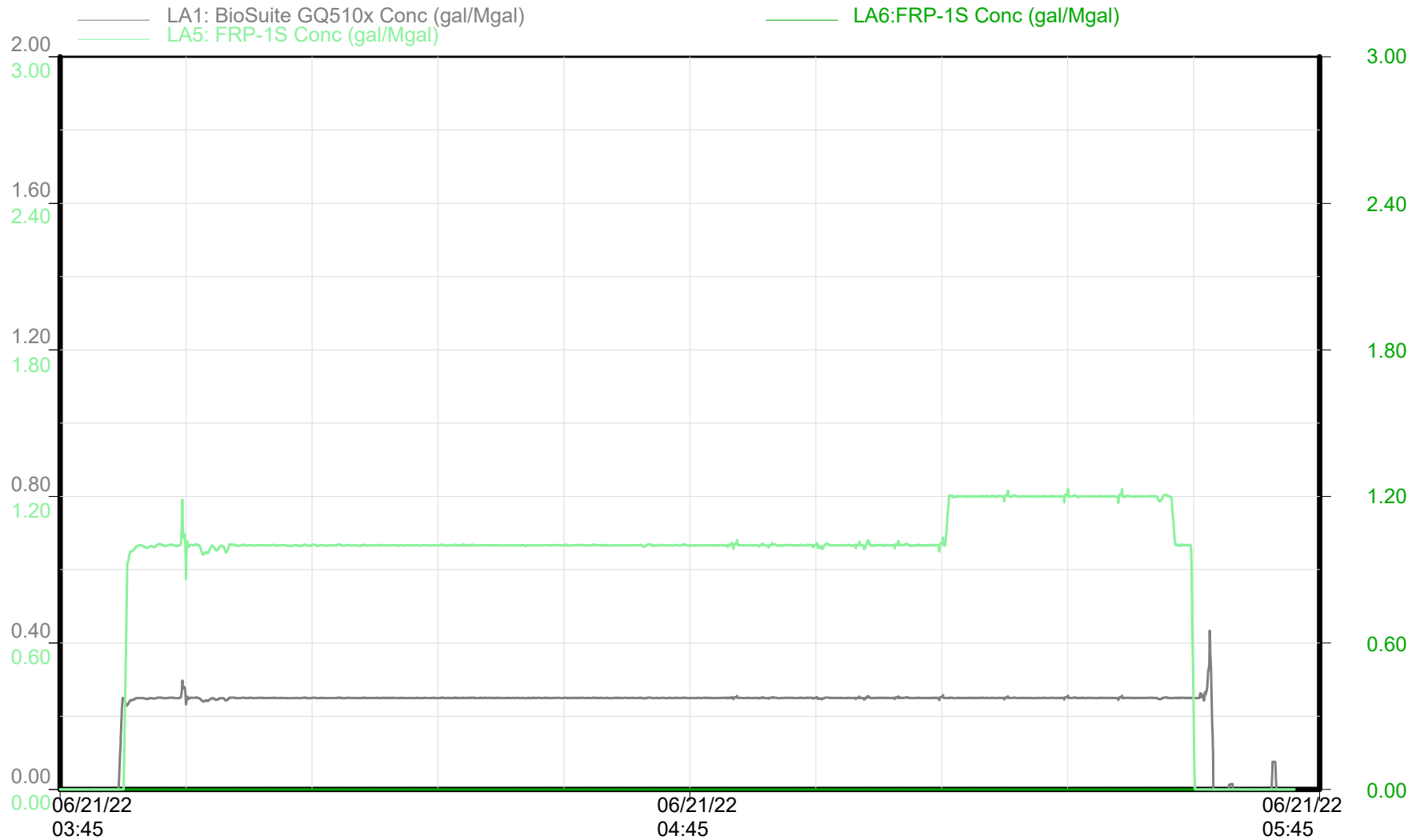
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 17 of 60



Chemical Additives

Time

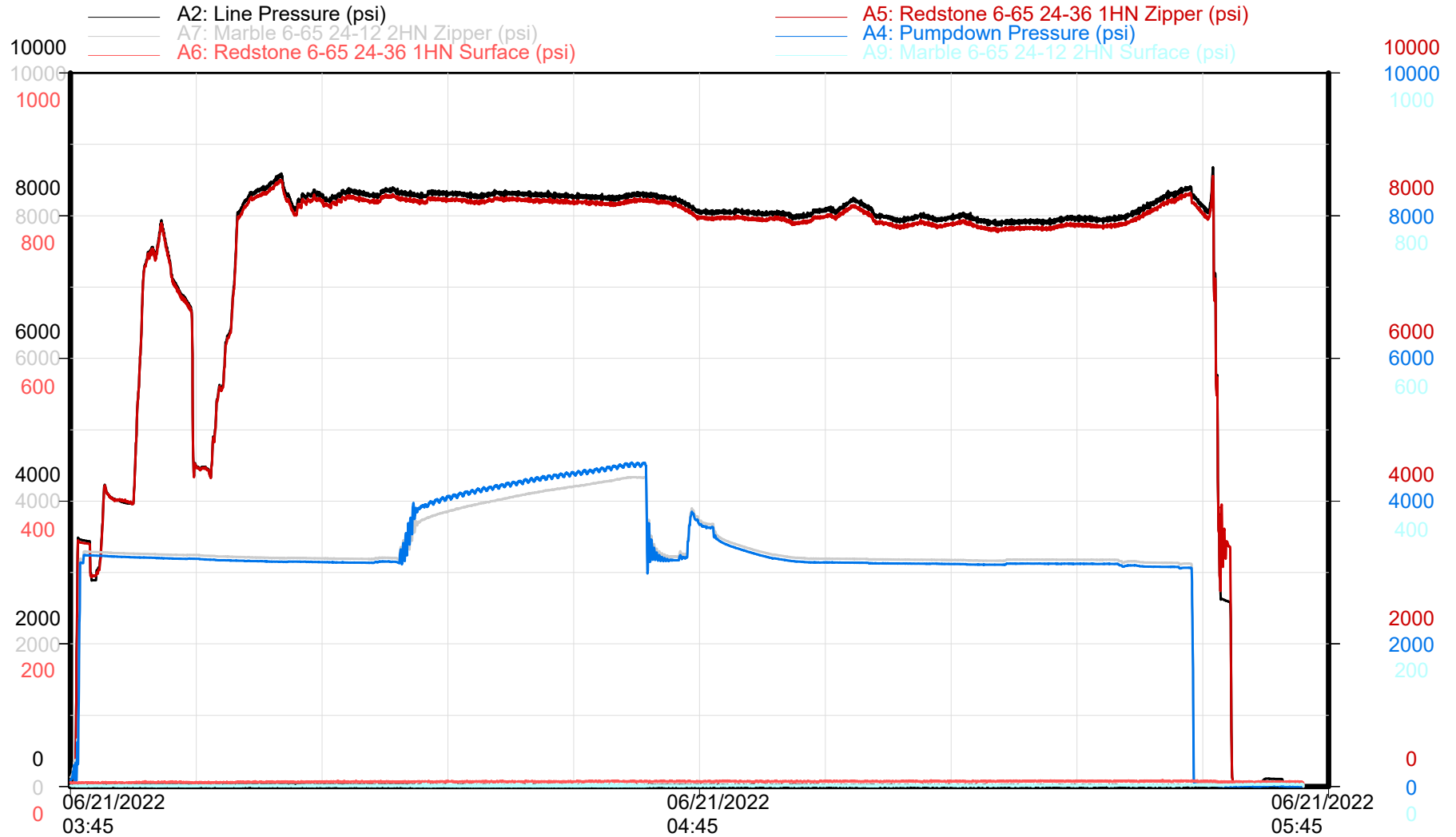
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 17



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 17 of 60



Zipper Pressures

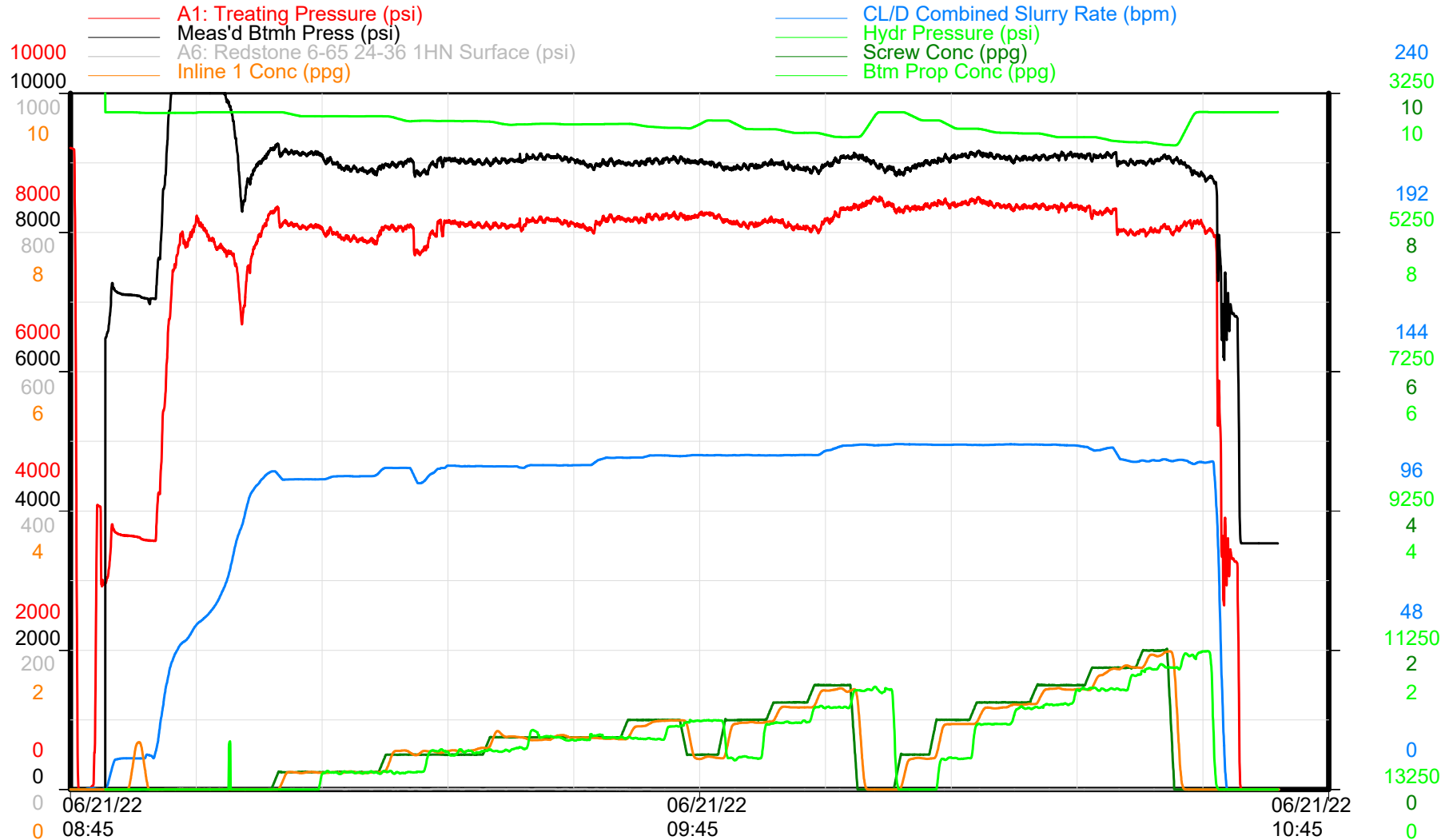
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 18

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 18 of 60



Treatment Plot

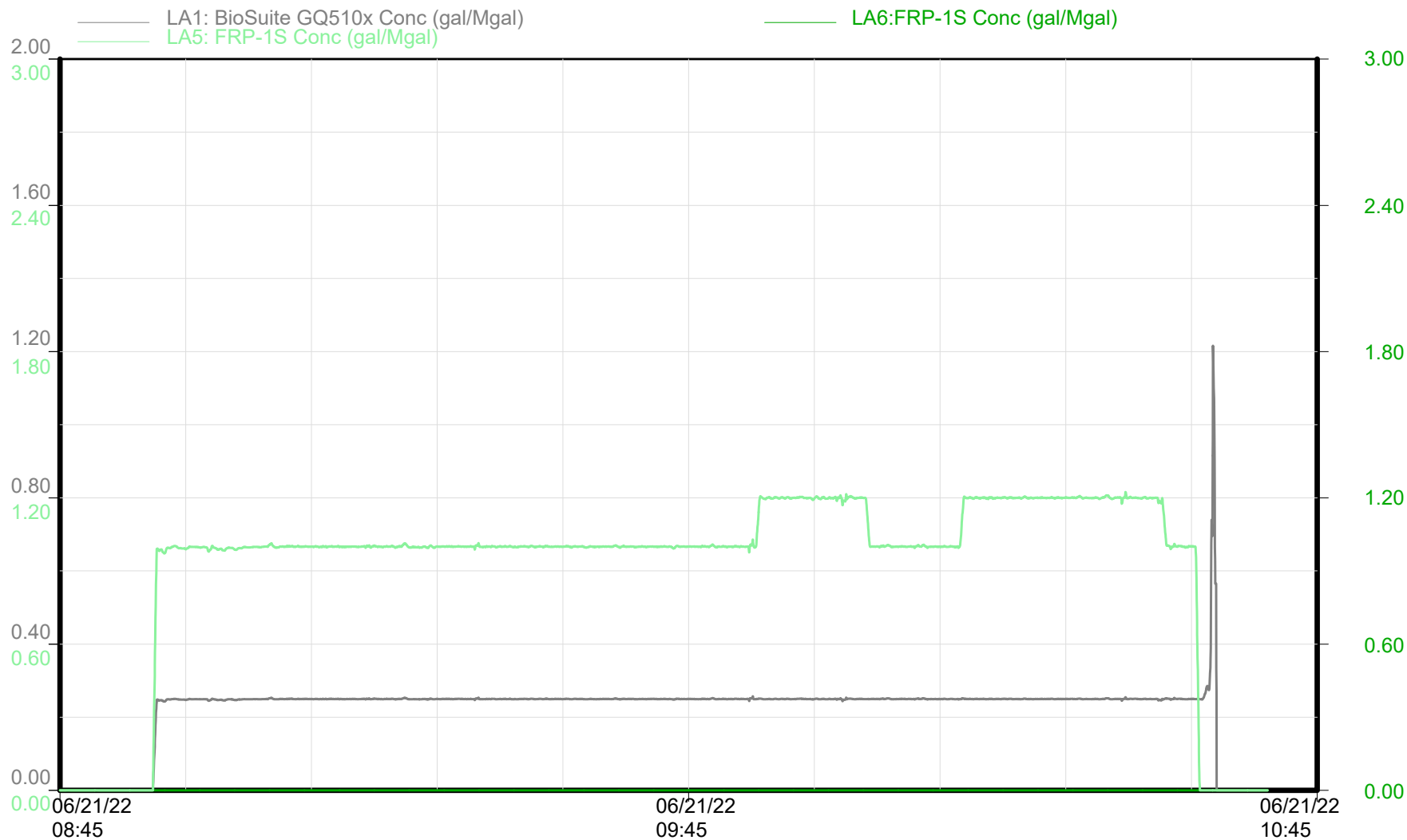
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 18 of 60



Chemical Additives

Time

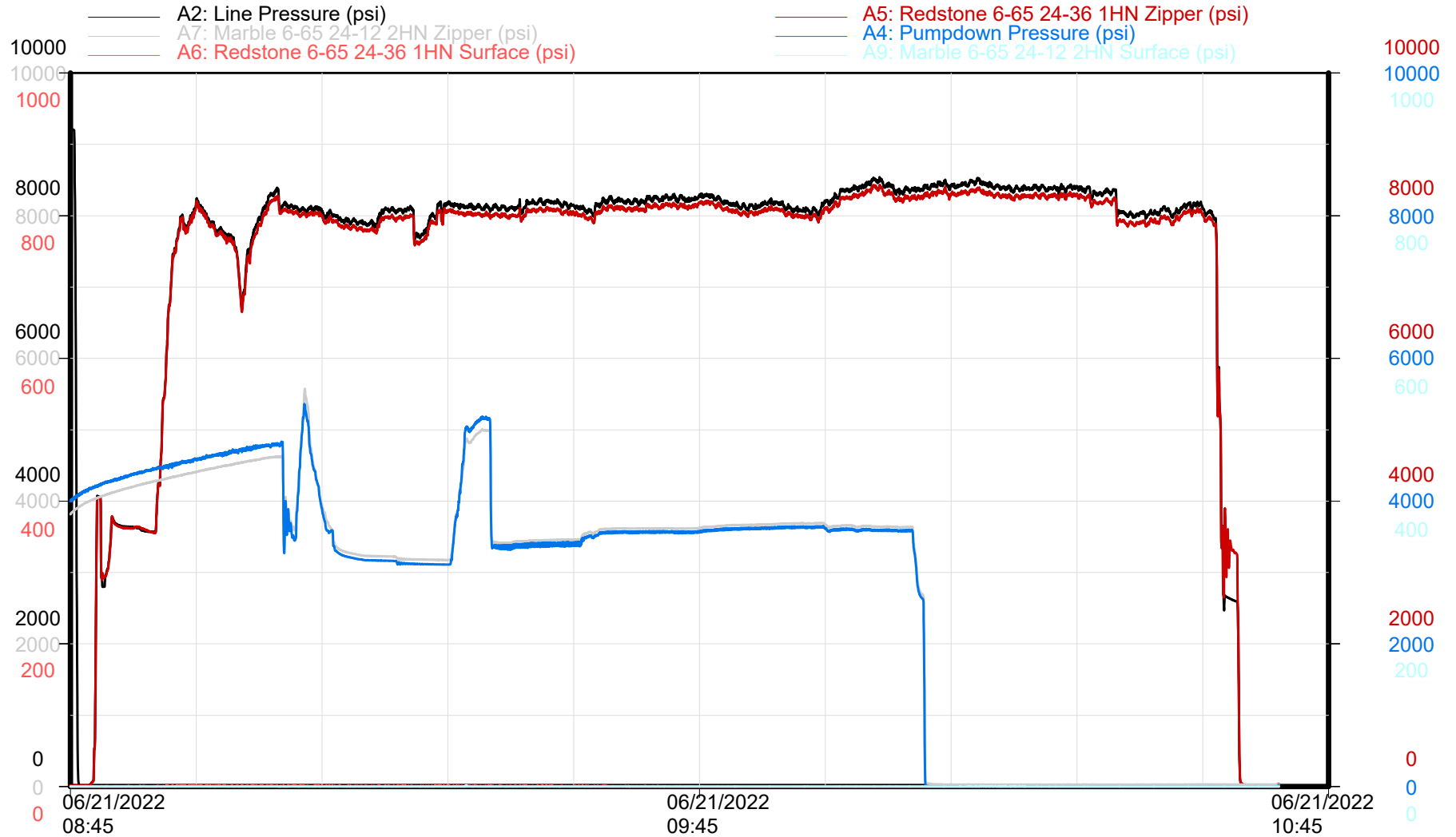
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 18



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 18 of 60



Zipper Pressures

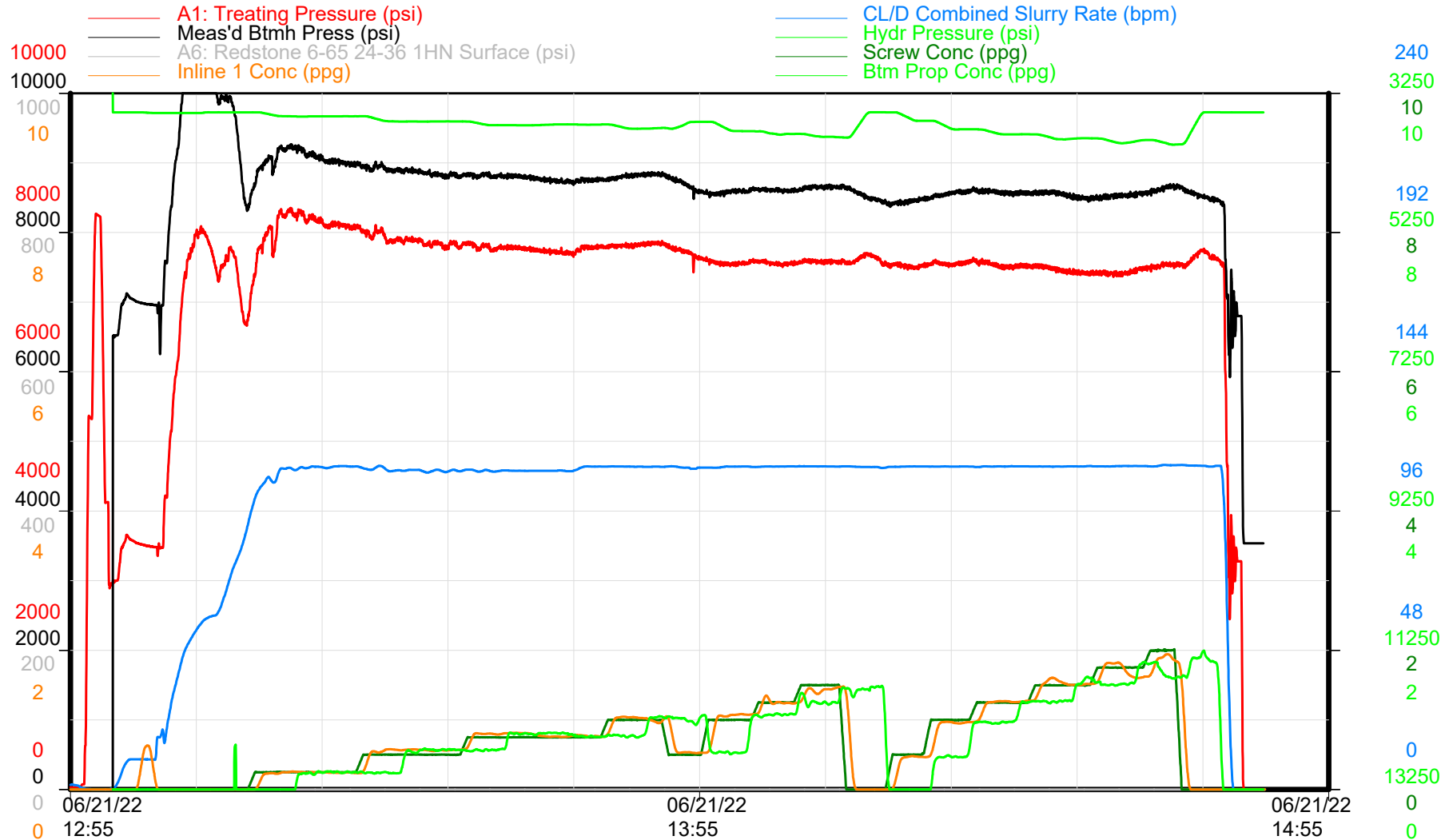
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 19

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 19 of 60



Treatment Plot

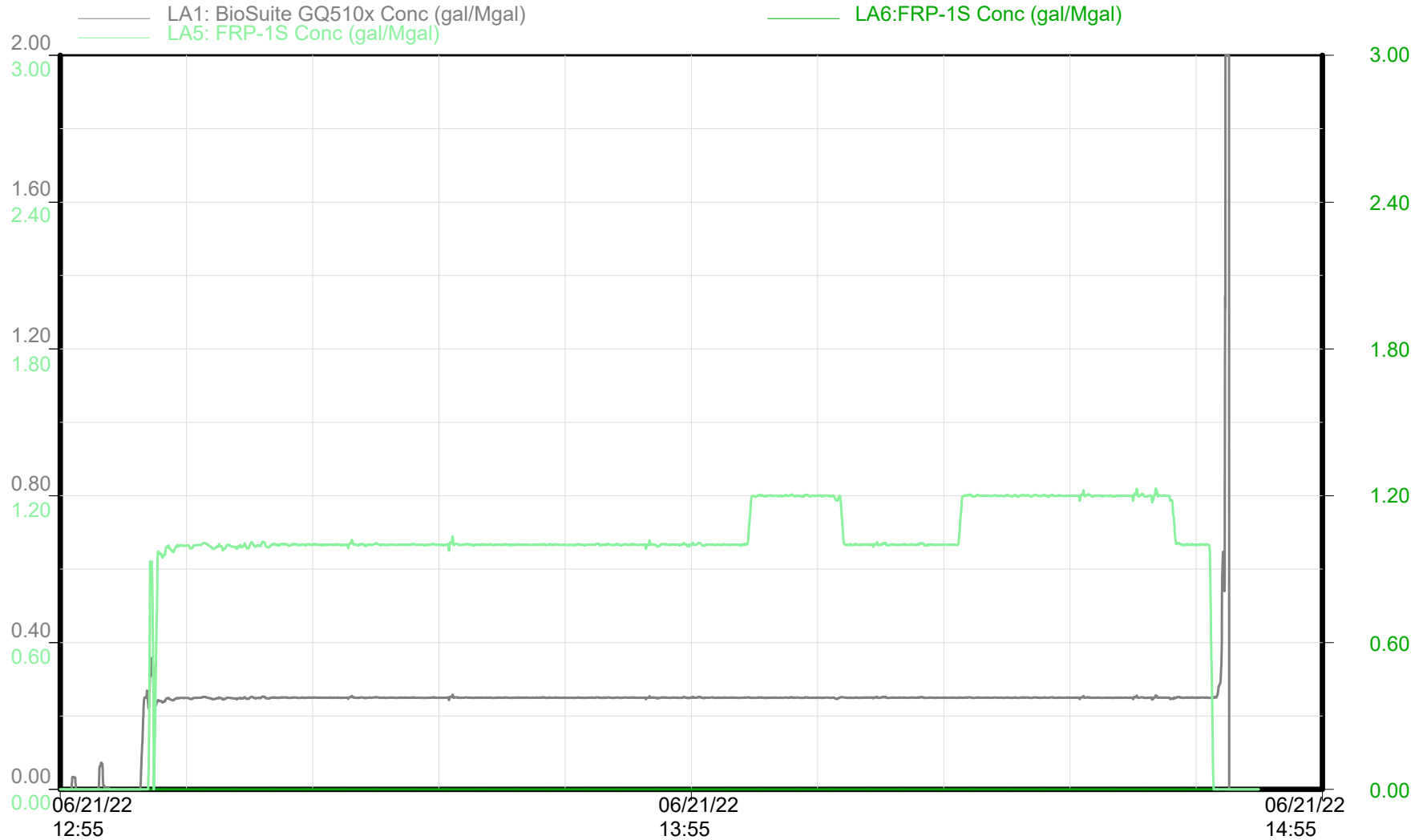
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 19 of 60



Chemical Additives

Time

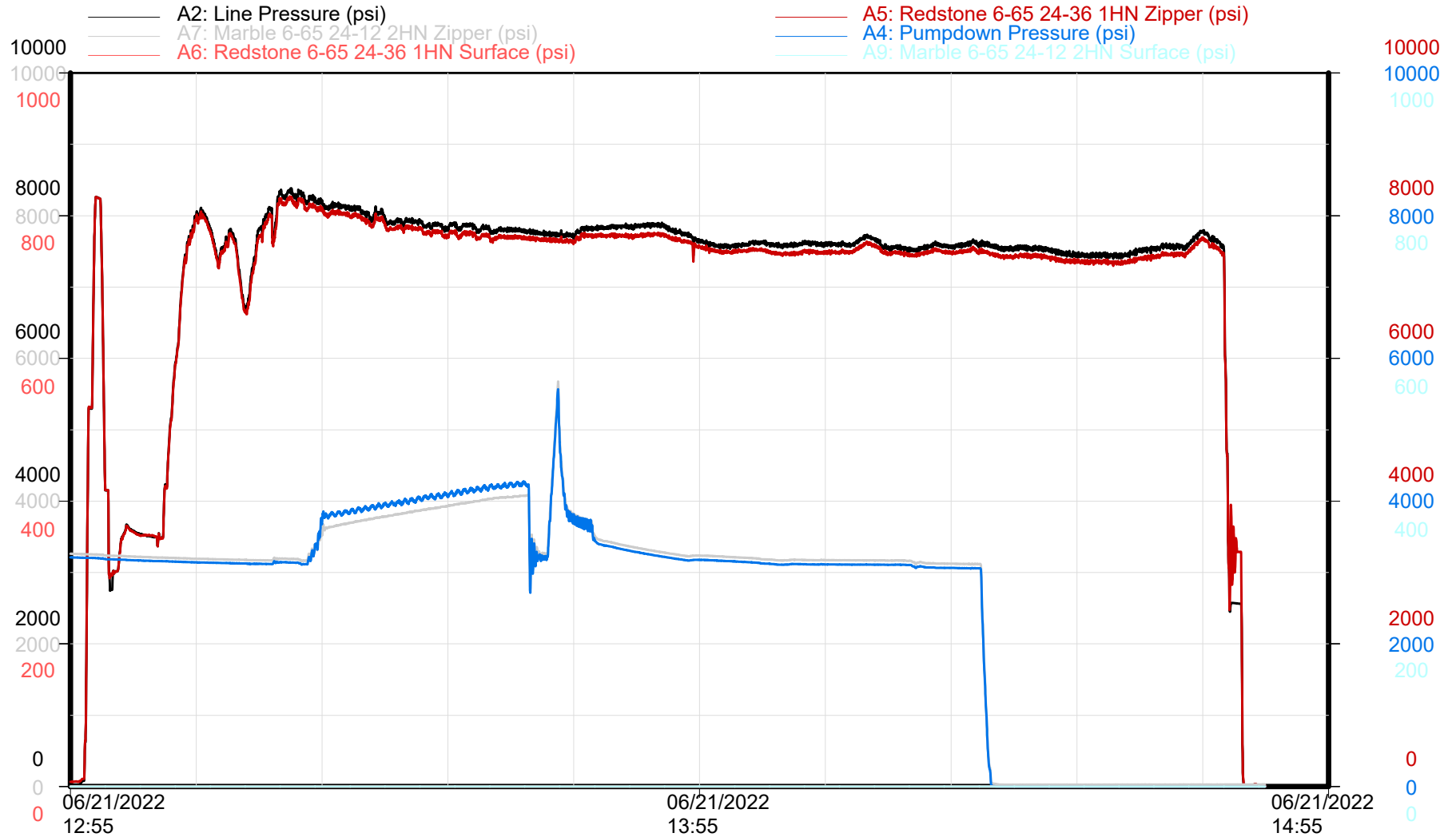
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 19



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 19 of 60



Zipper Pressures

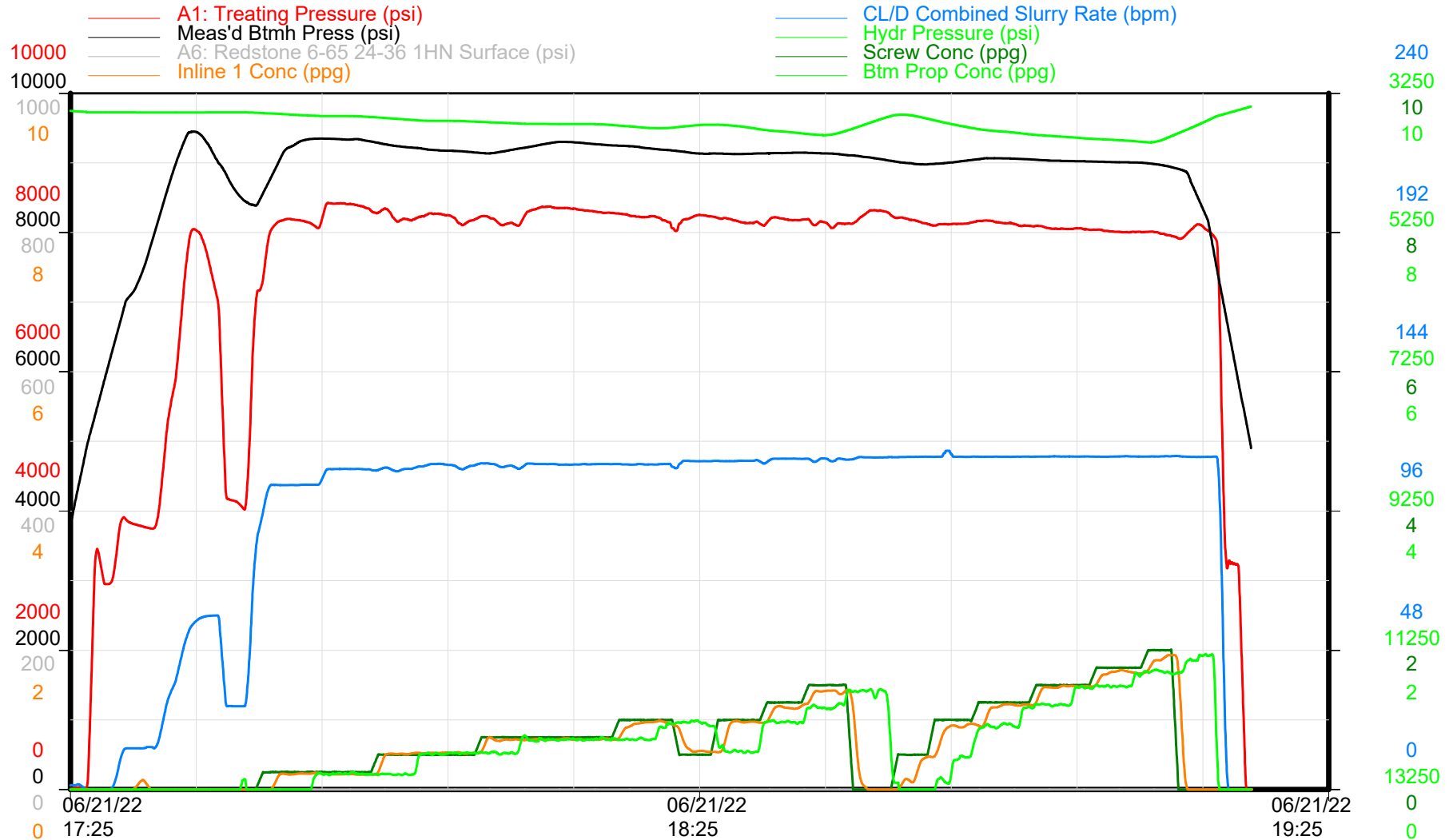
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 20

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 20 of 60



Treatment Plot

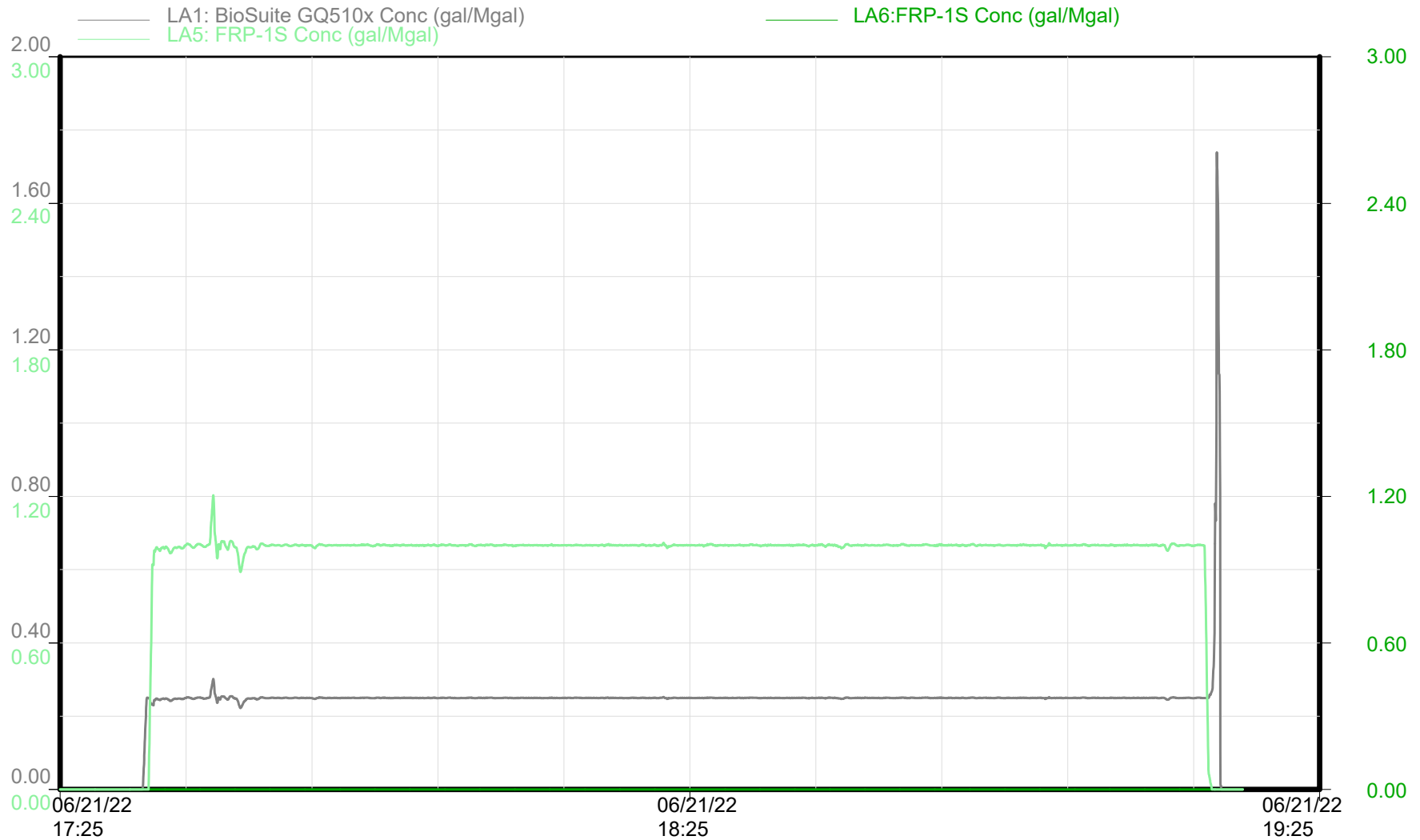
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 20 of 60



Chemical Additives

Time

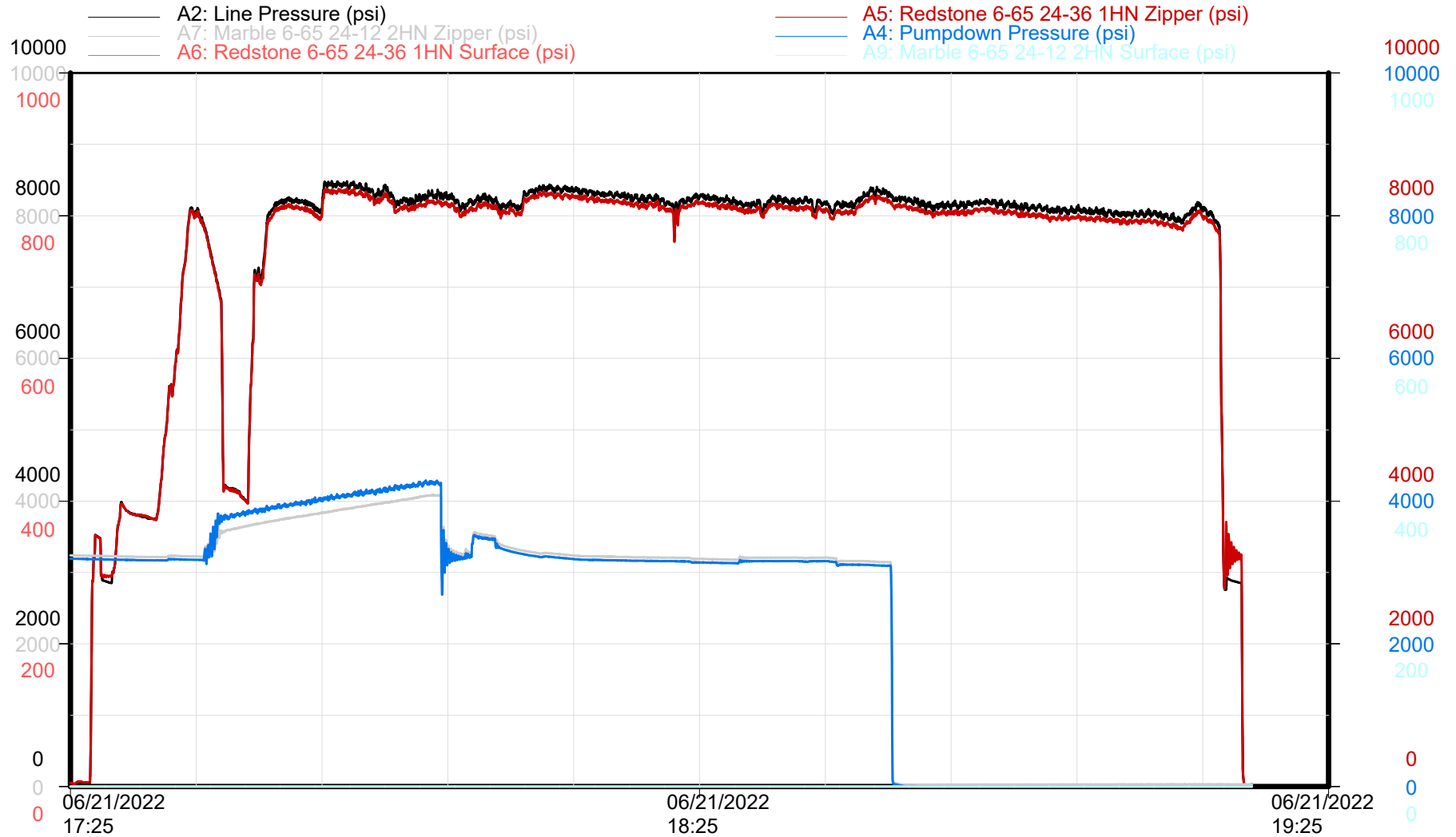
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 20



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 20 of 60



Zipper Pressures

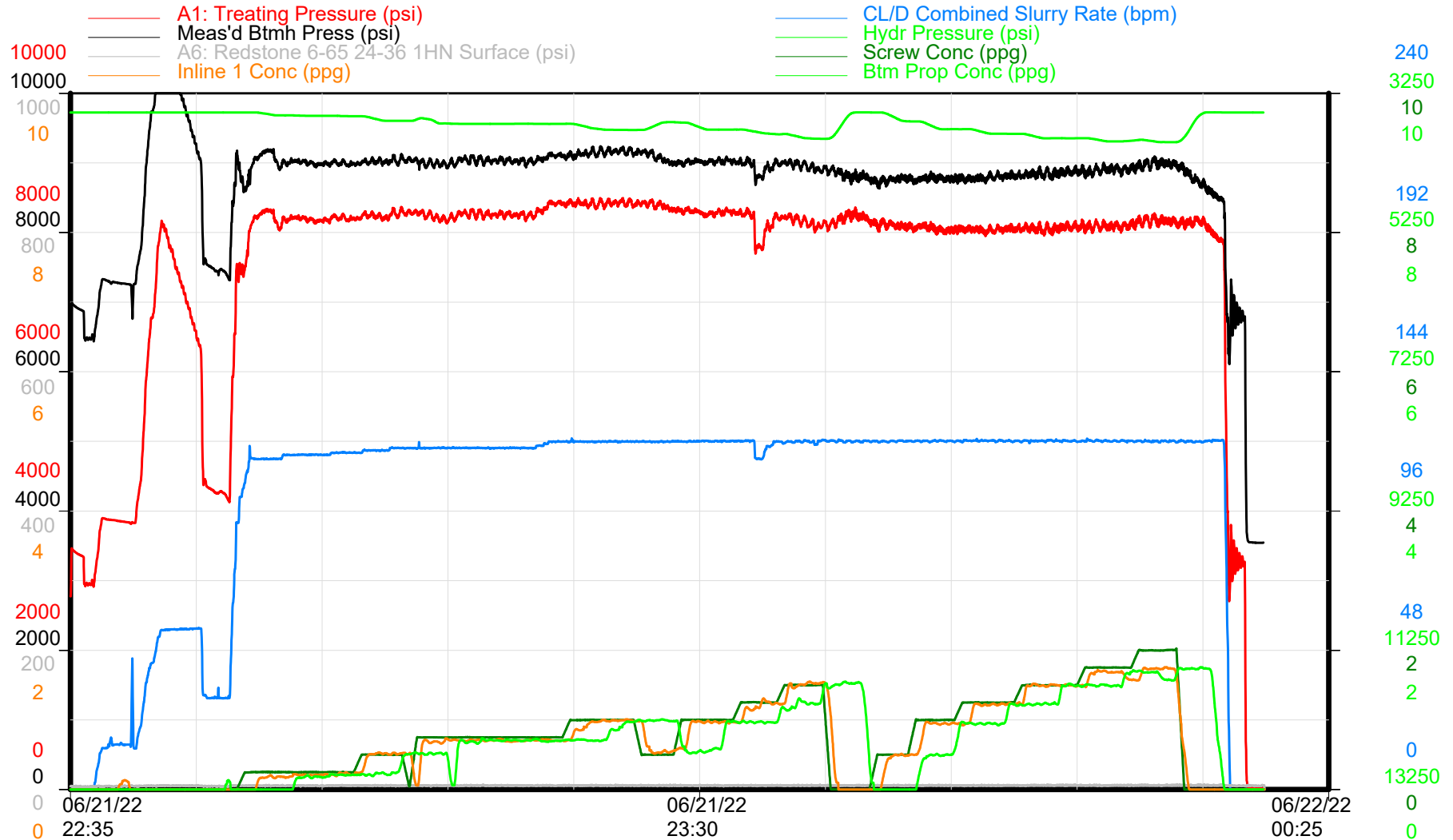
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 21

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 21 of 60



Treatment Plot

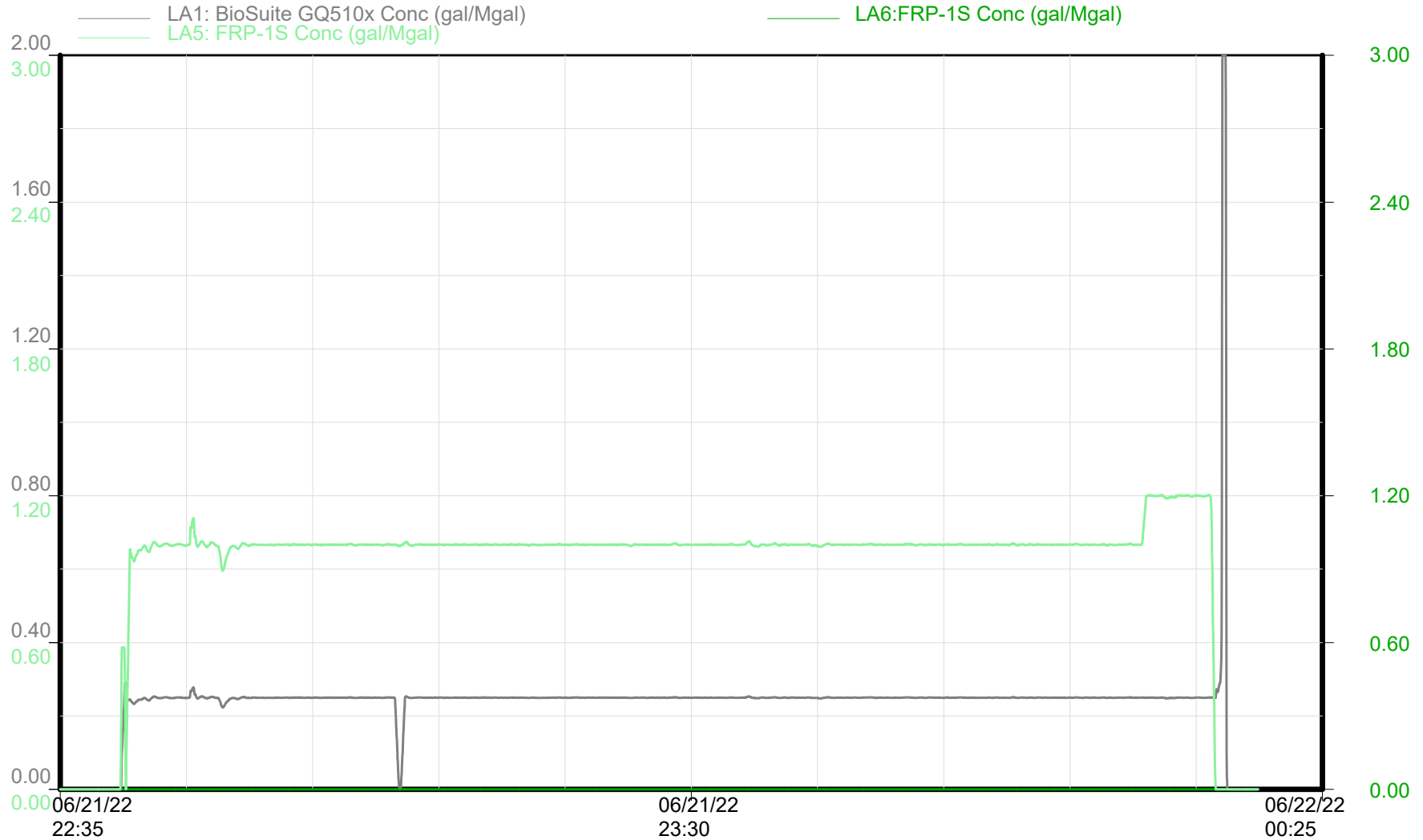
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 21 of 60



Chemical Additives

Time

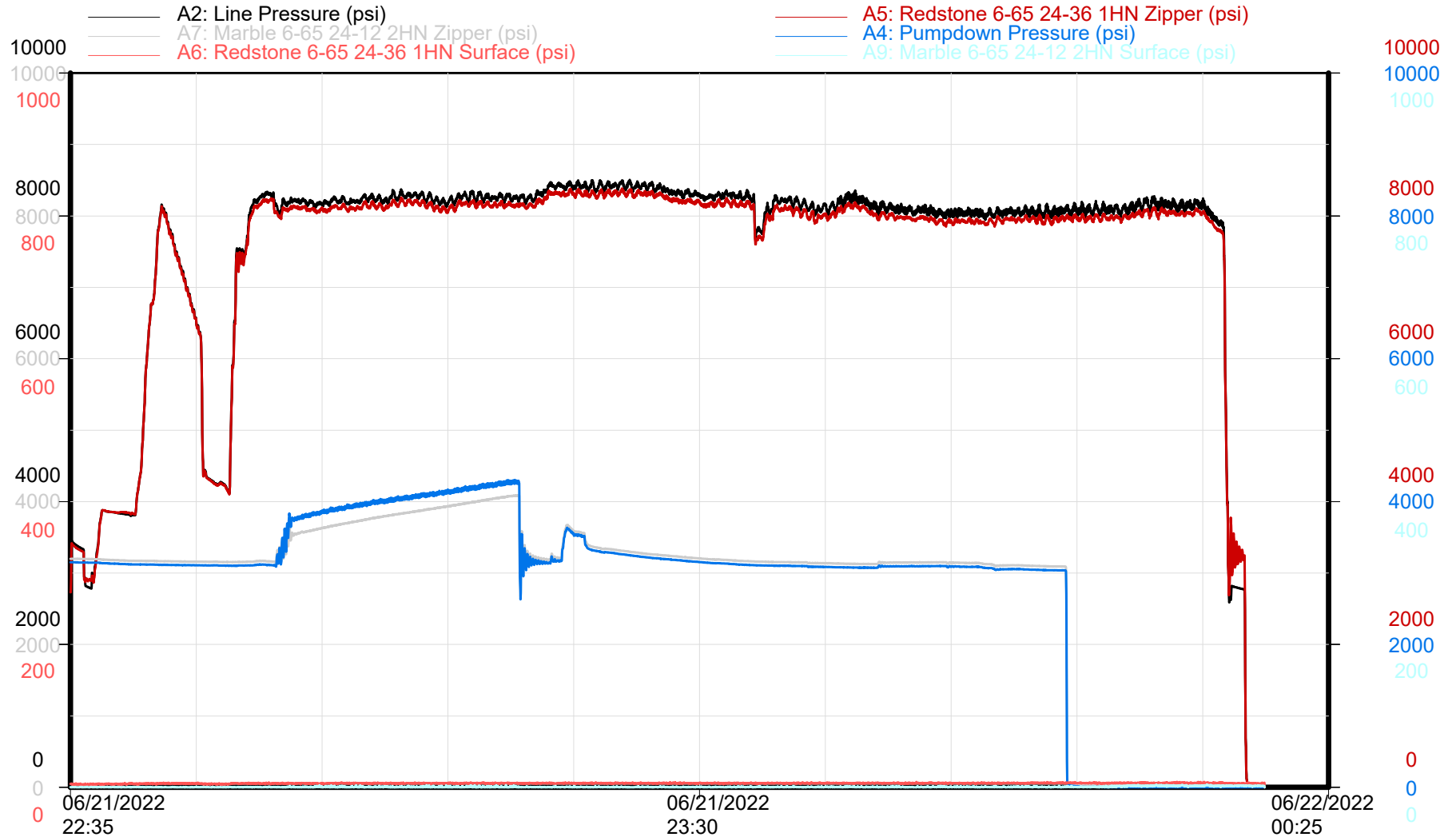
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 21



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 21 of 60



Zipper Pressures

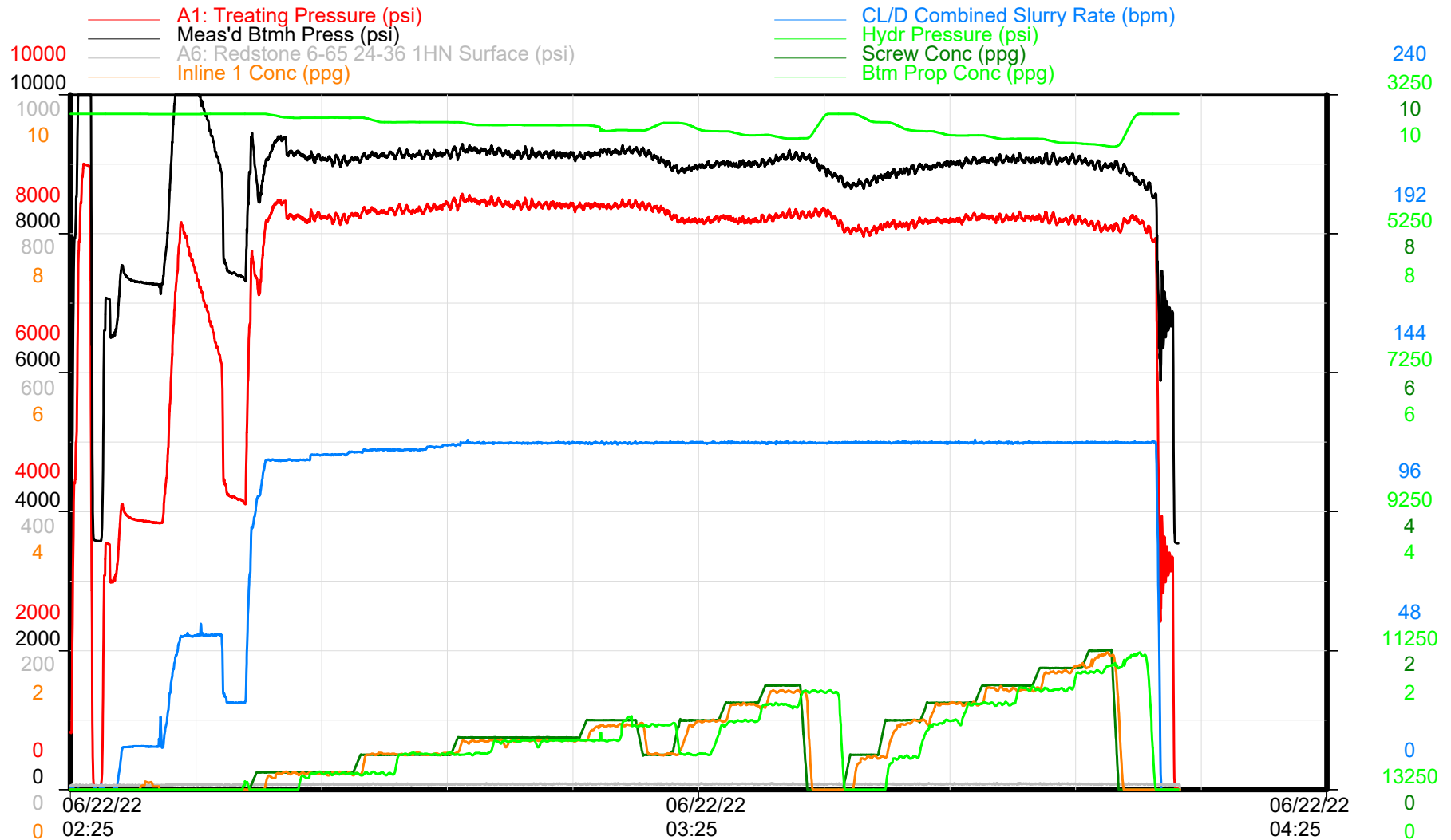
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 22

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 22 of 60



Treatment Plot

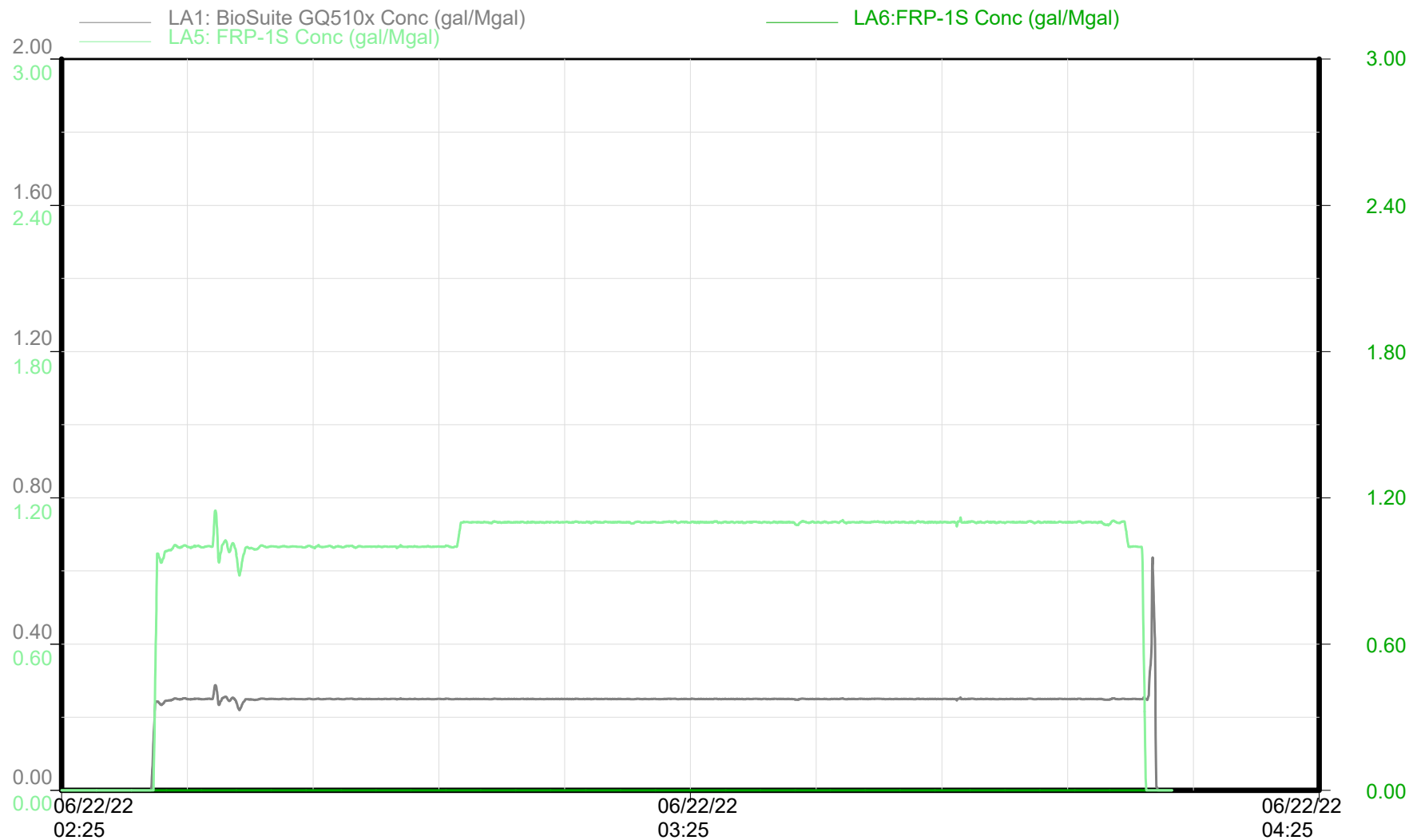
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 22 of 60



Chemical Additives

Time

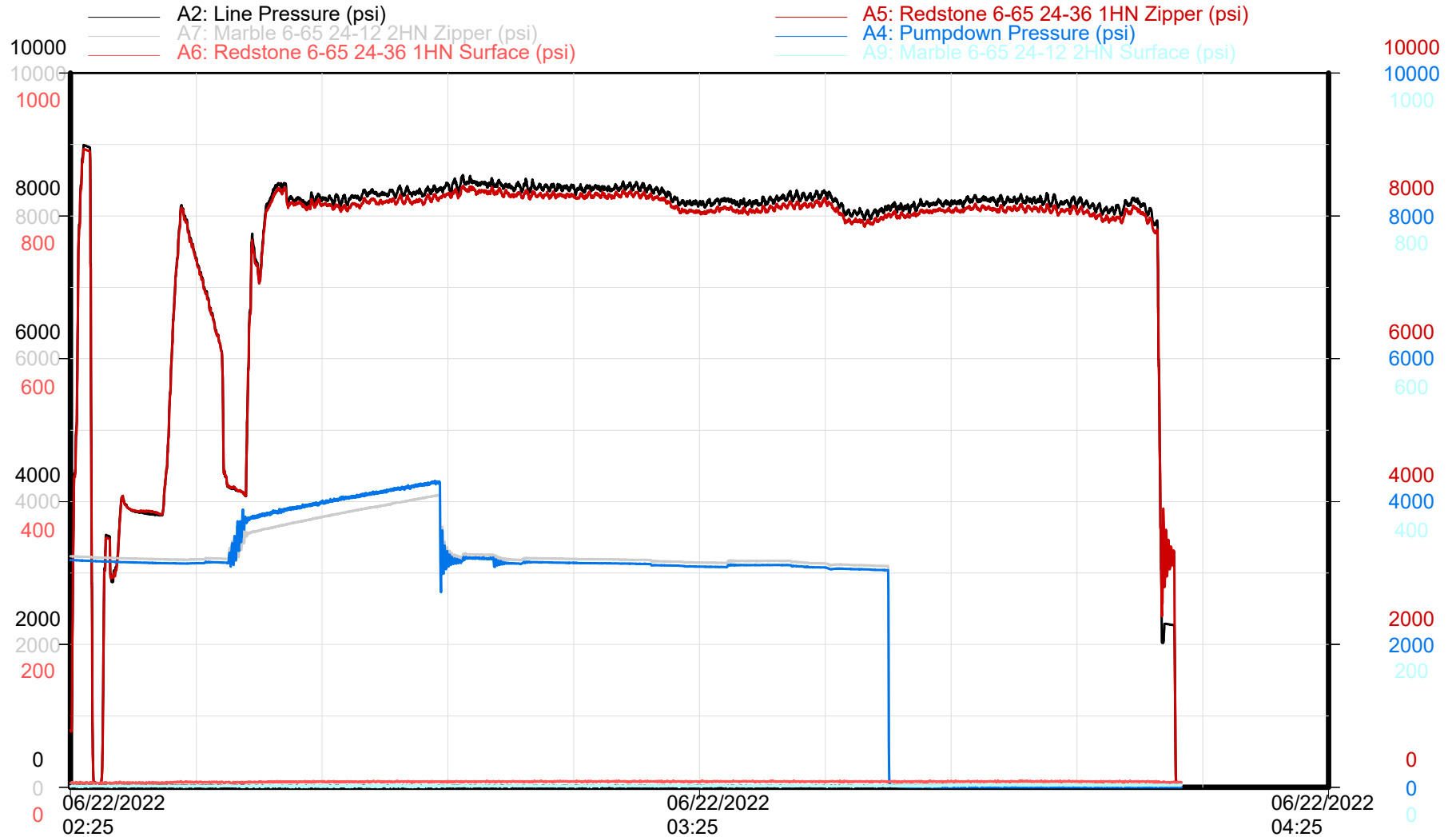
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 22



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 22 of 60



Zipper Pressures

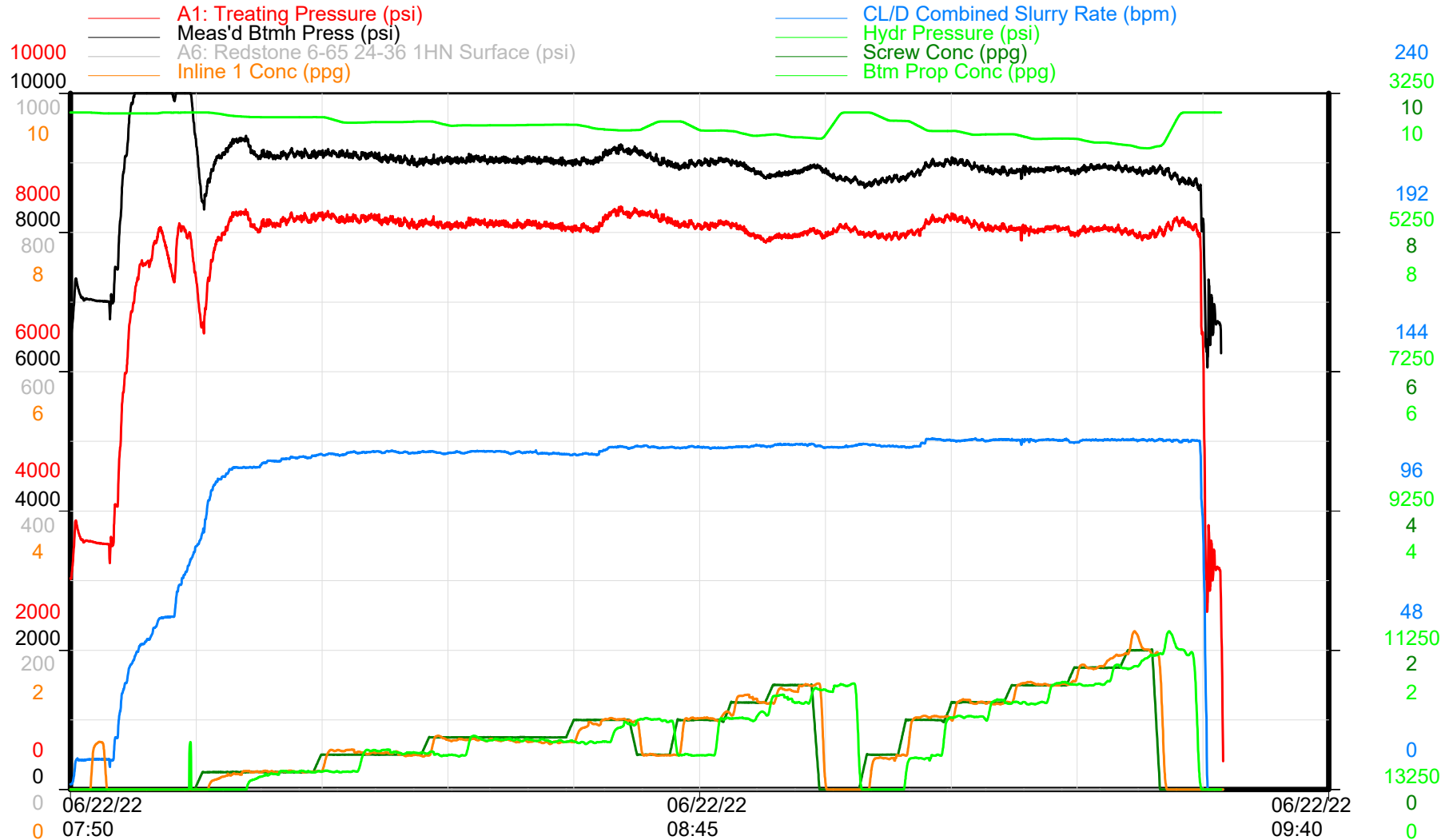
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 23

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 23 of 60



Treatment Plot

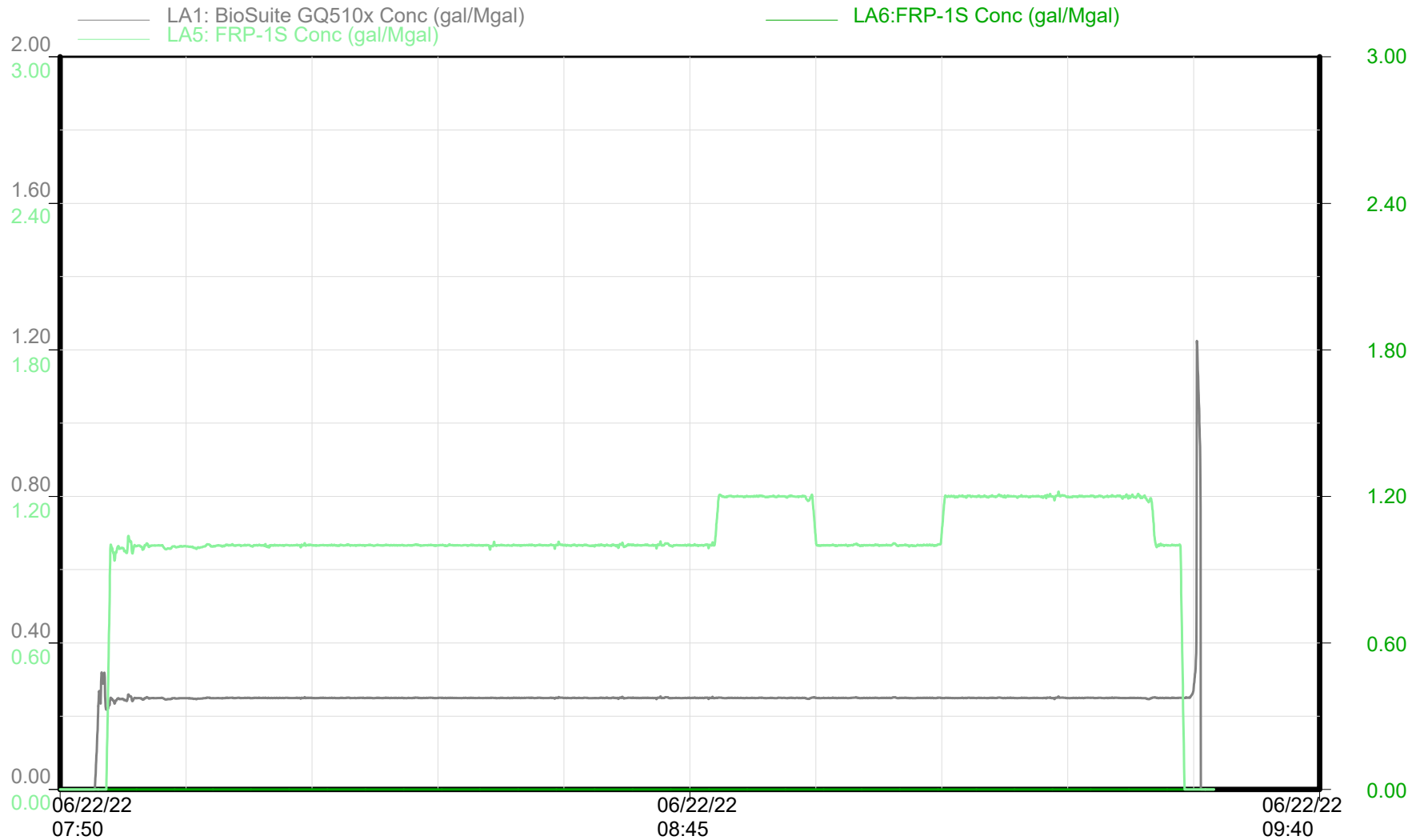
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 23 of 60



Chemical Additives

Time

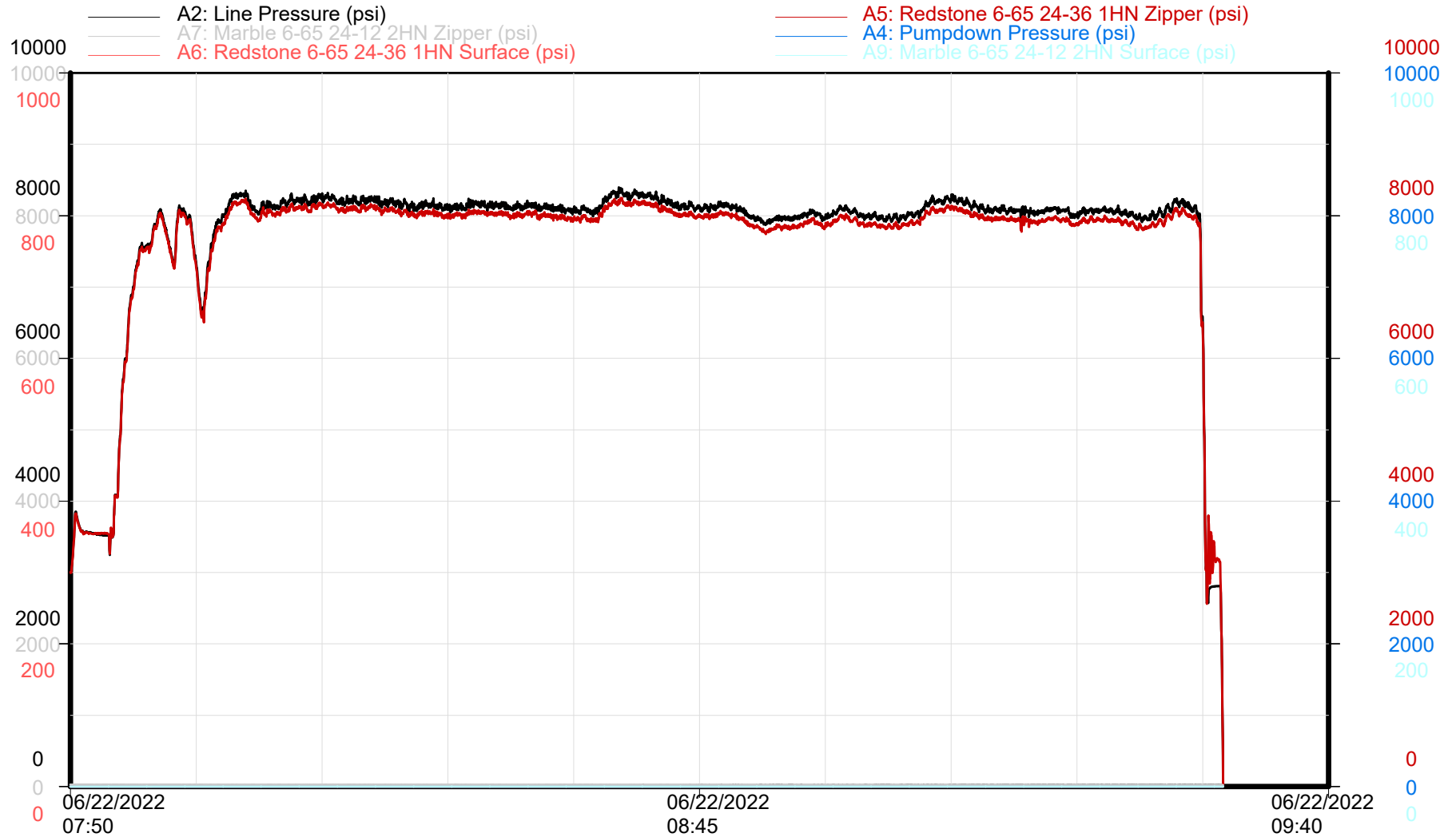
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 23



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 23 of 60



Zipper Pressures

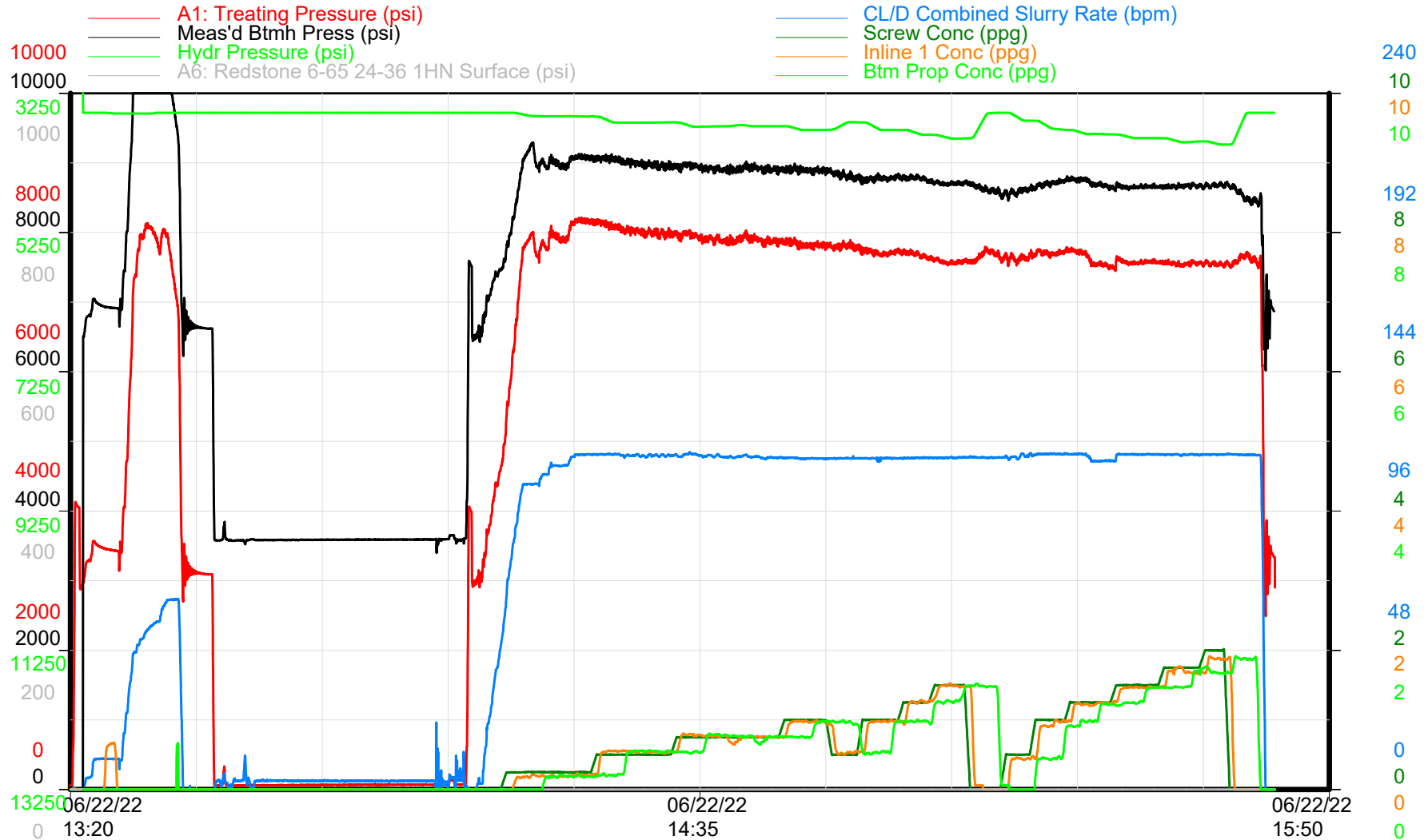
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 24

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 24 of 60



Treatment Plot

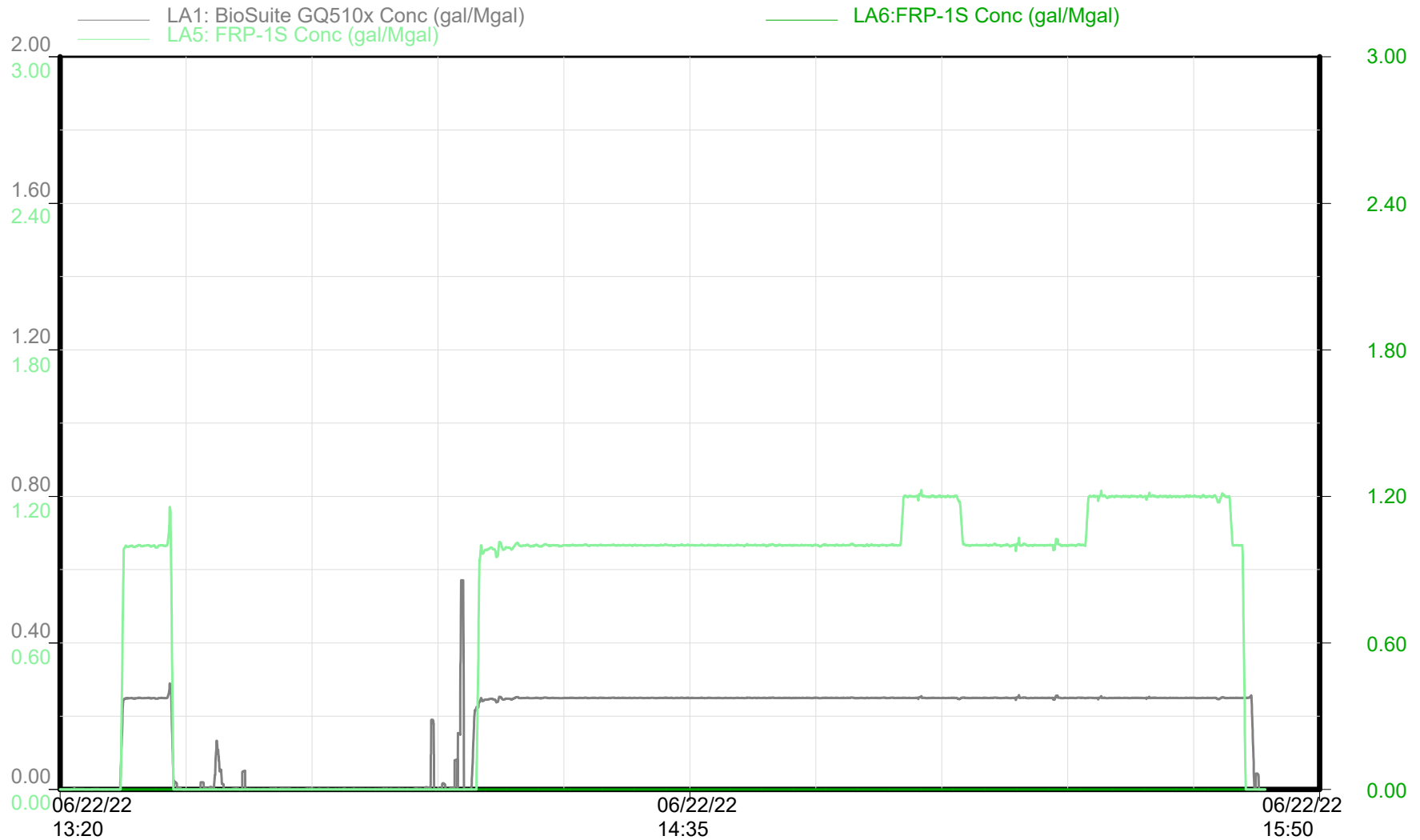
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 24 of 60



Chemical Additives

Time

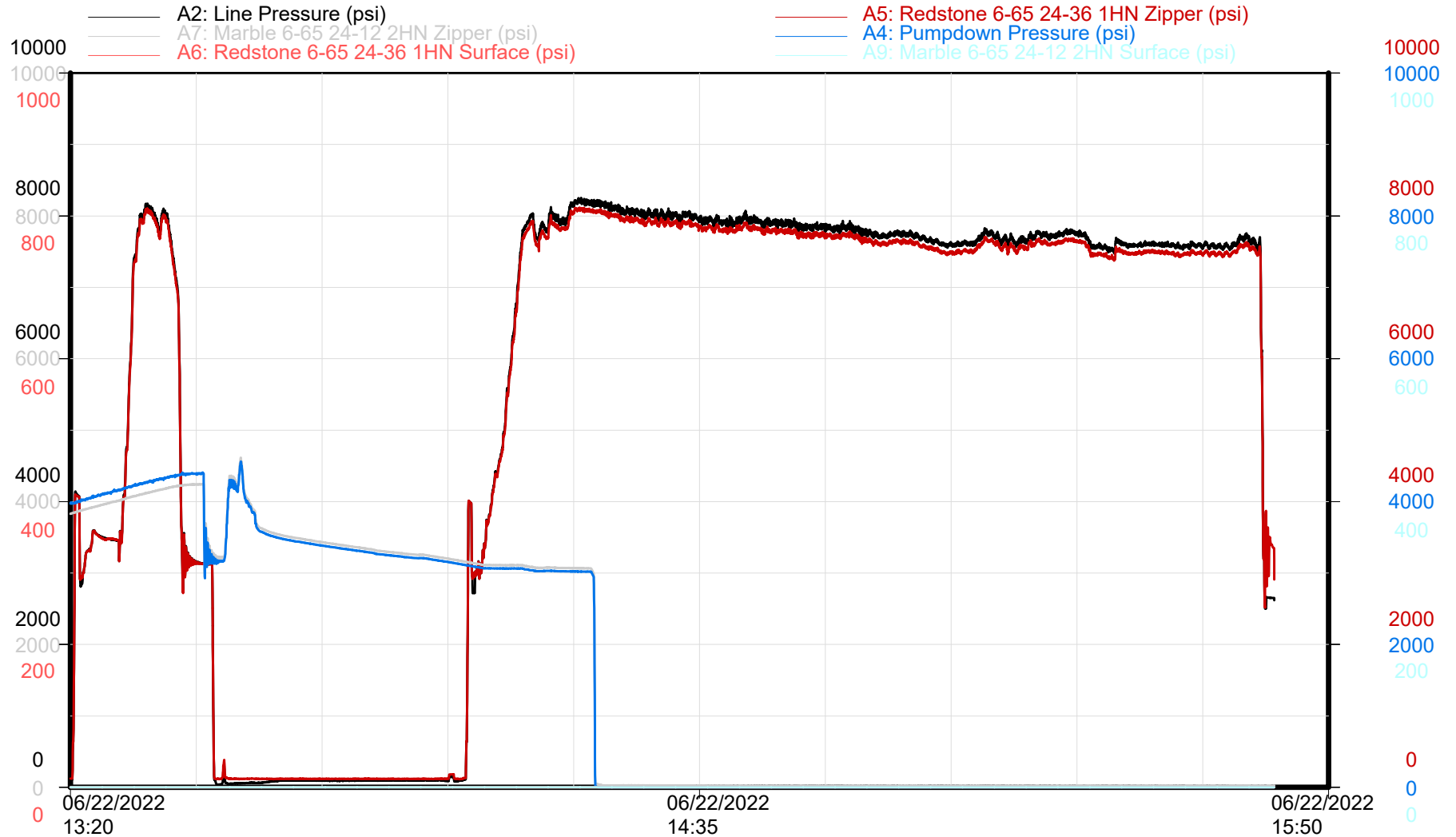
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 24



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 24 of 60



Zipper Pressures

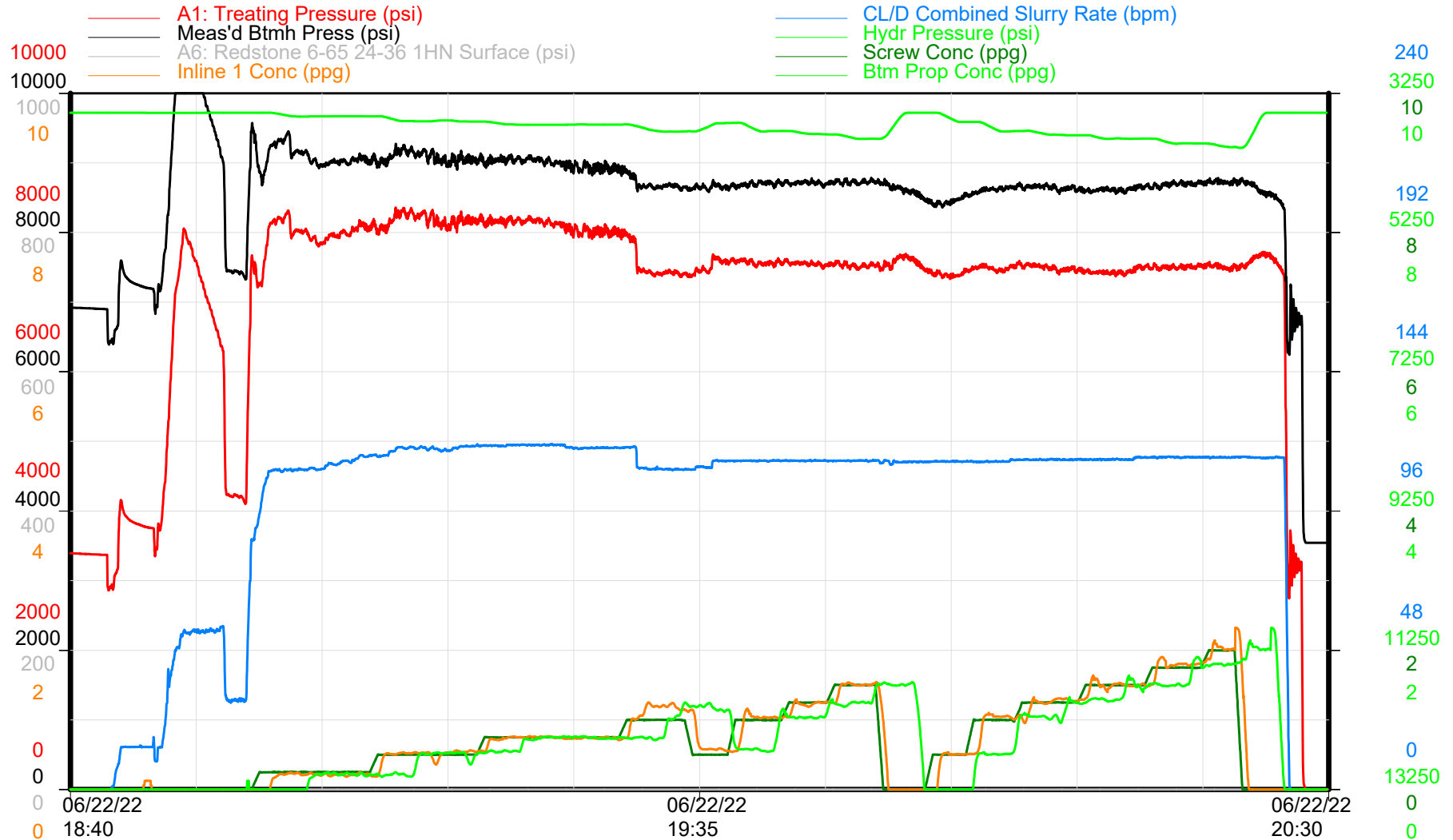
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 25

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 25 of 60



Treatment Plot

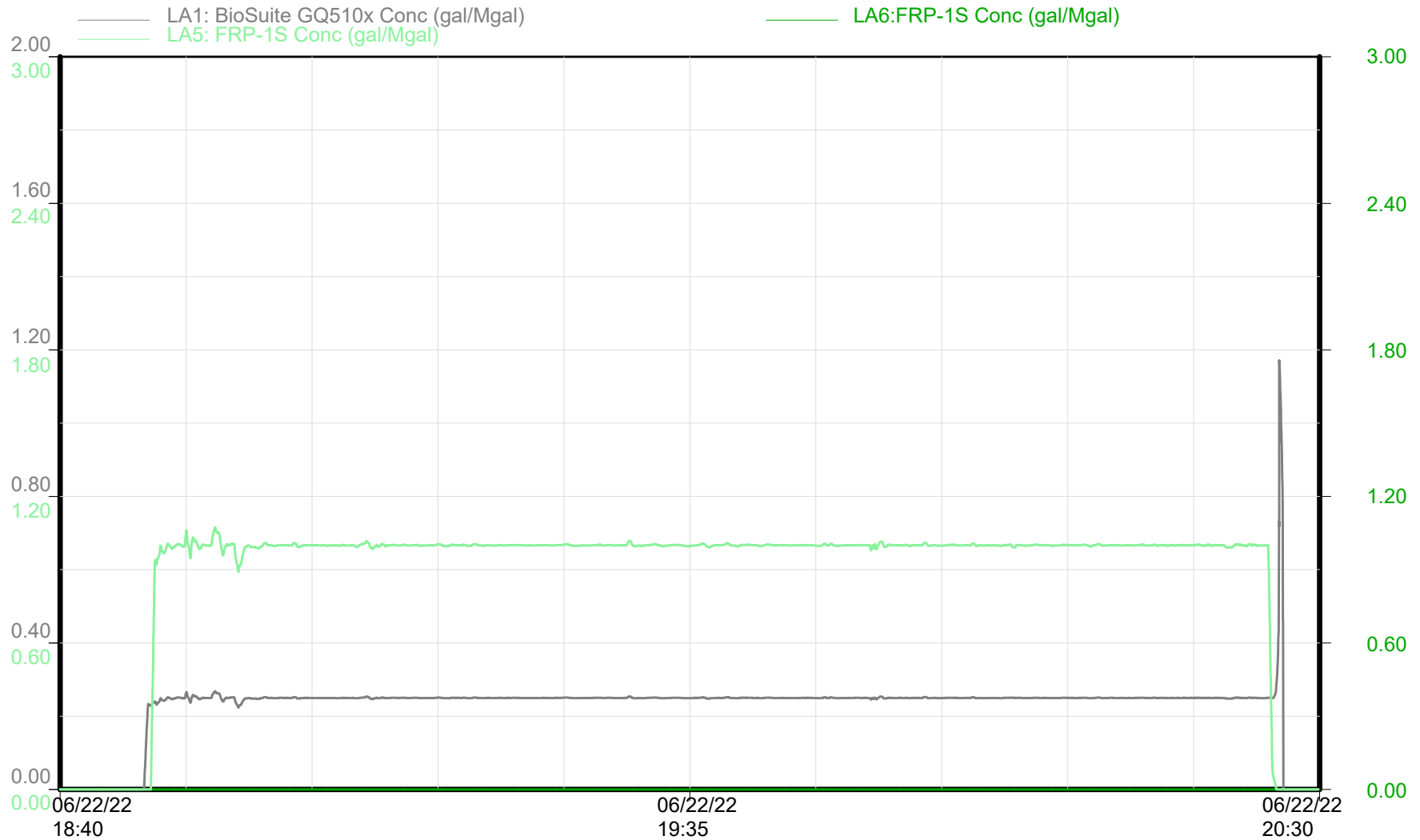
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 25 of 60



Chemical Additives

Time

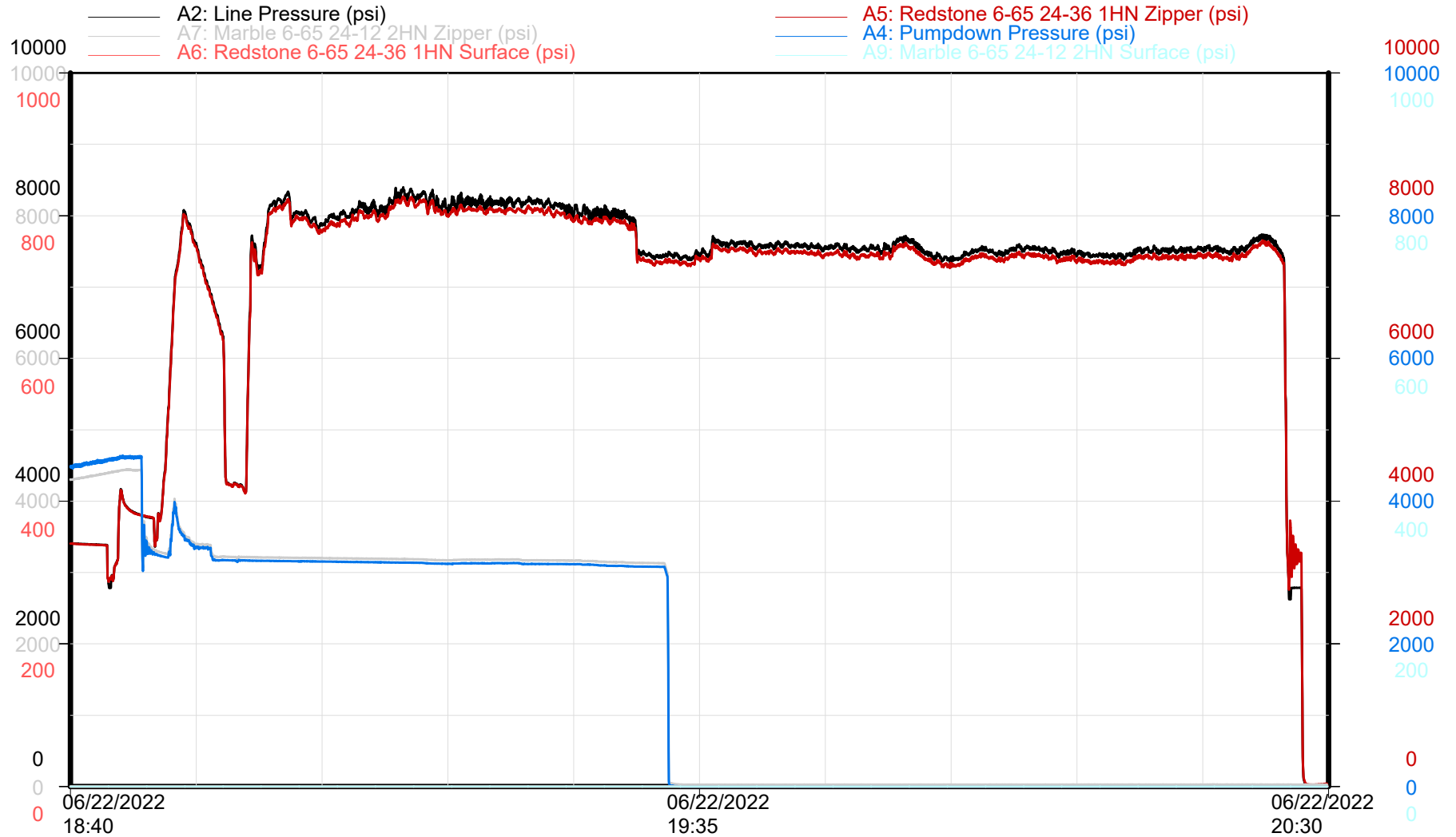
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 25



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 25 of 60



Zipper Pressures

Time

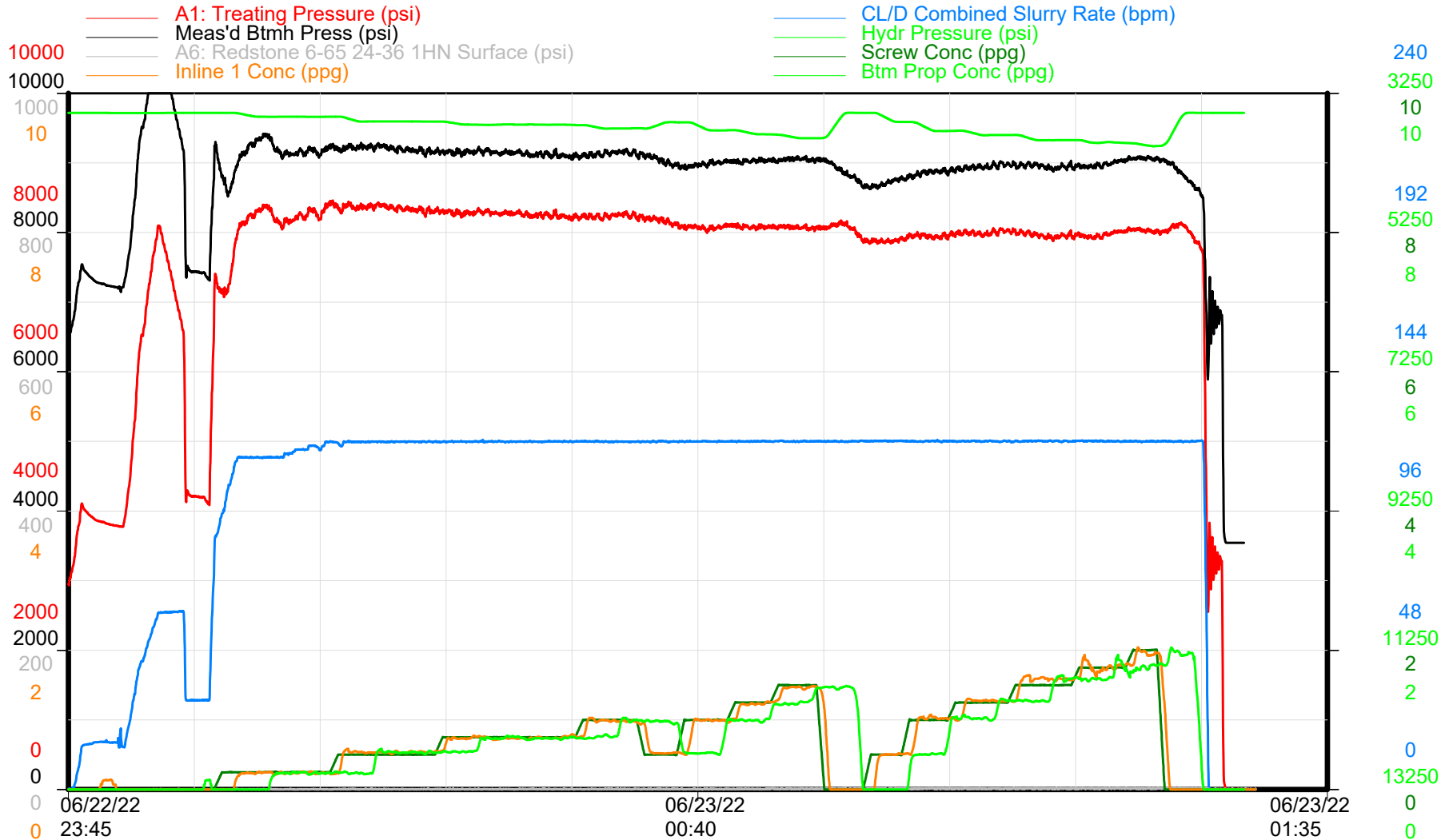
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 26



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 26 of 60



Treatment Plot

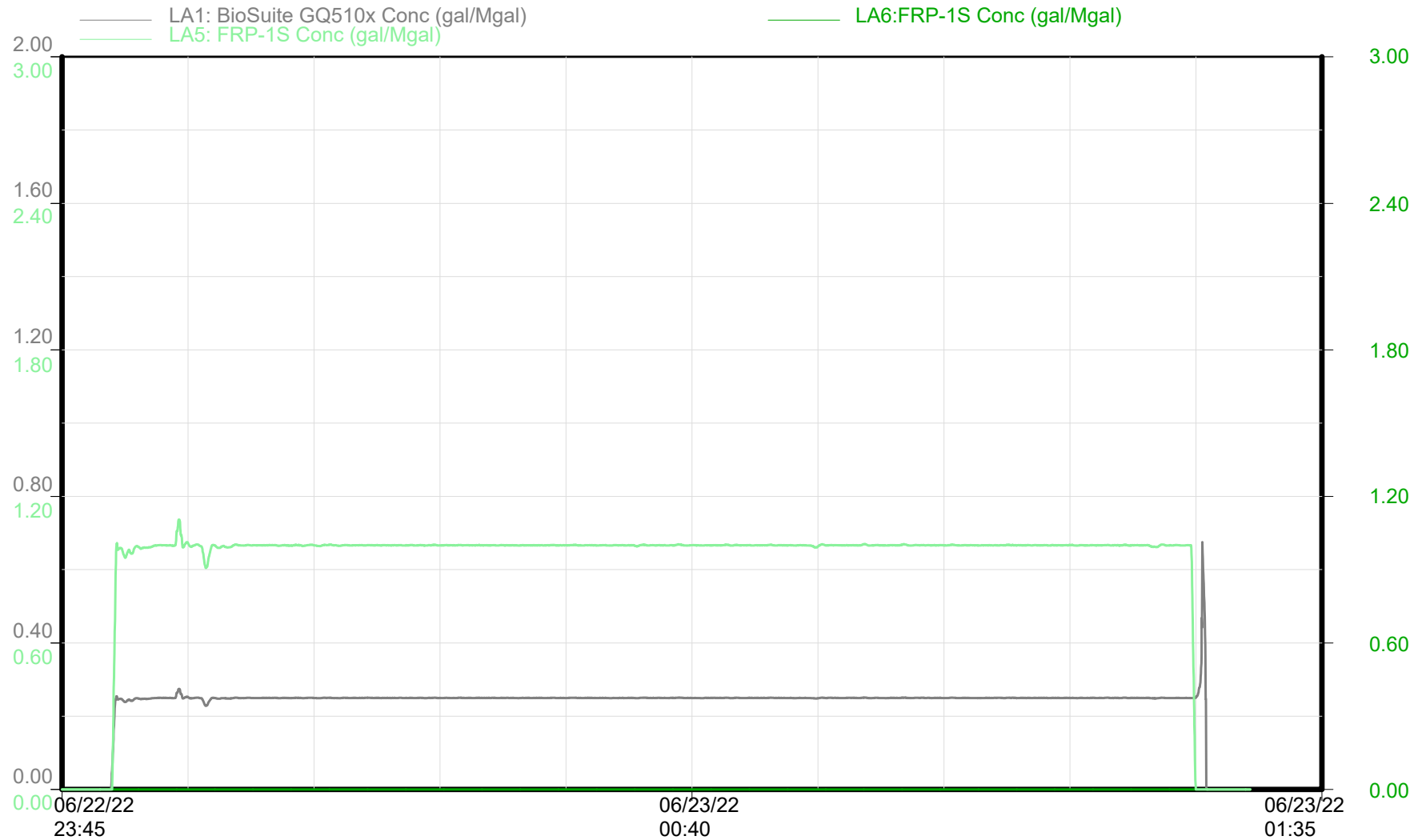
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 26 of 60



Chemical Additives

Time

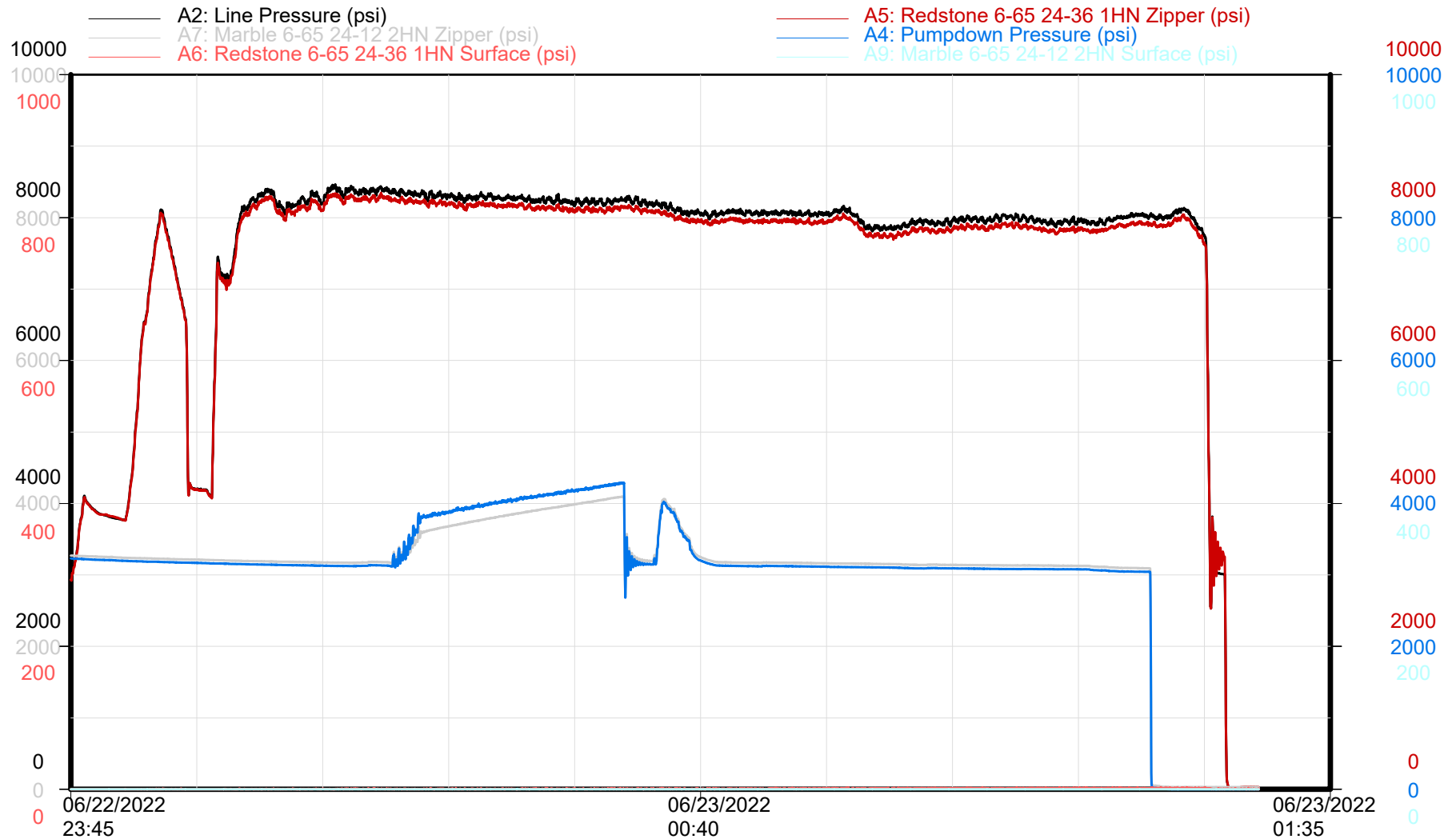
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 26



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 26 of 60



Zipper Pressures

Time

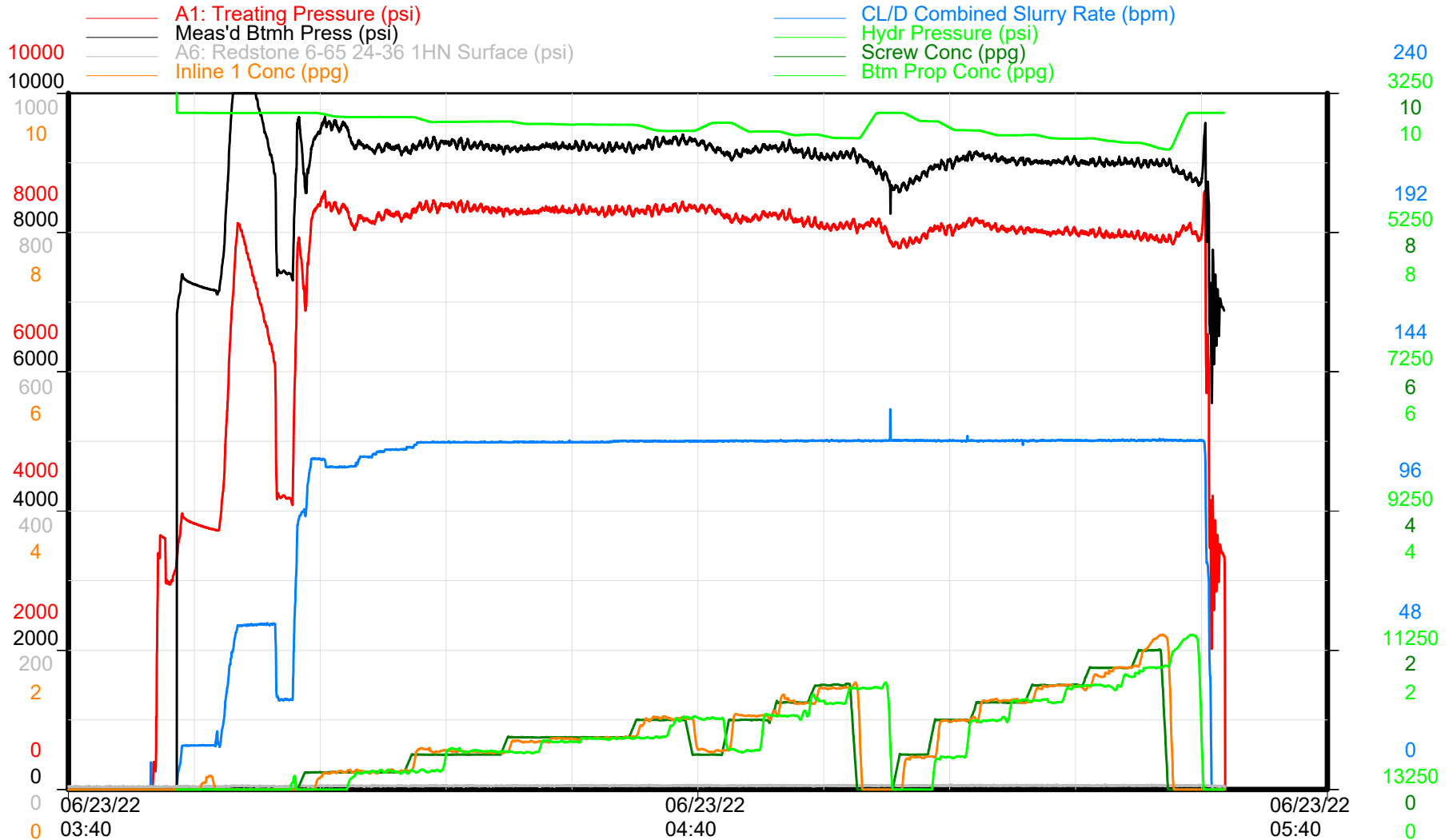
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 27



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 27 of 60



Treatment Plot

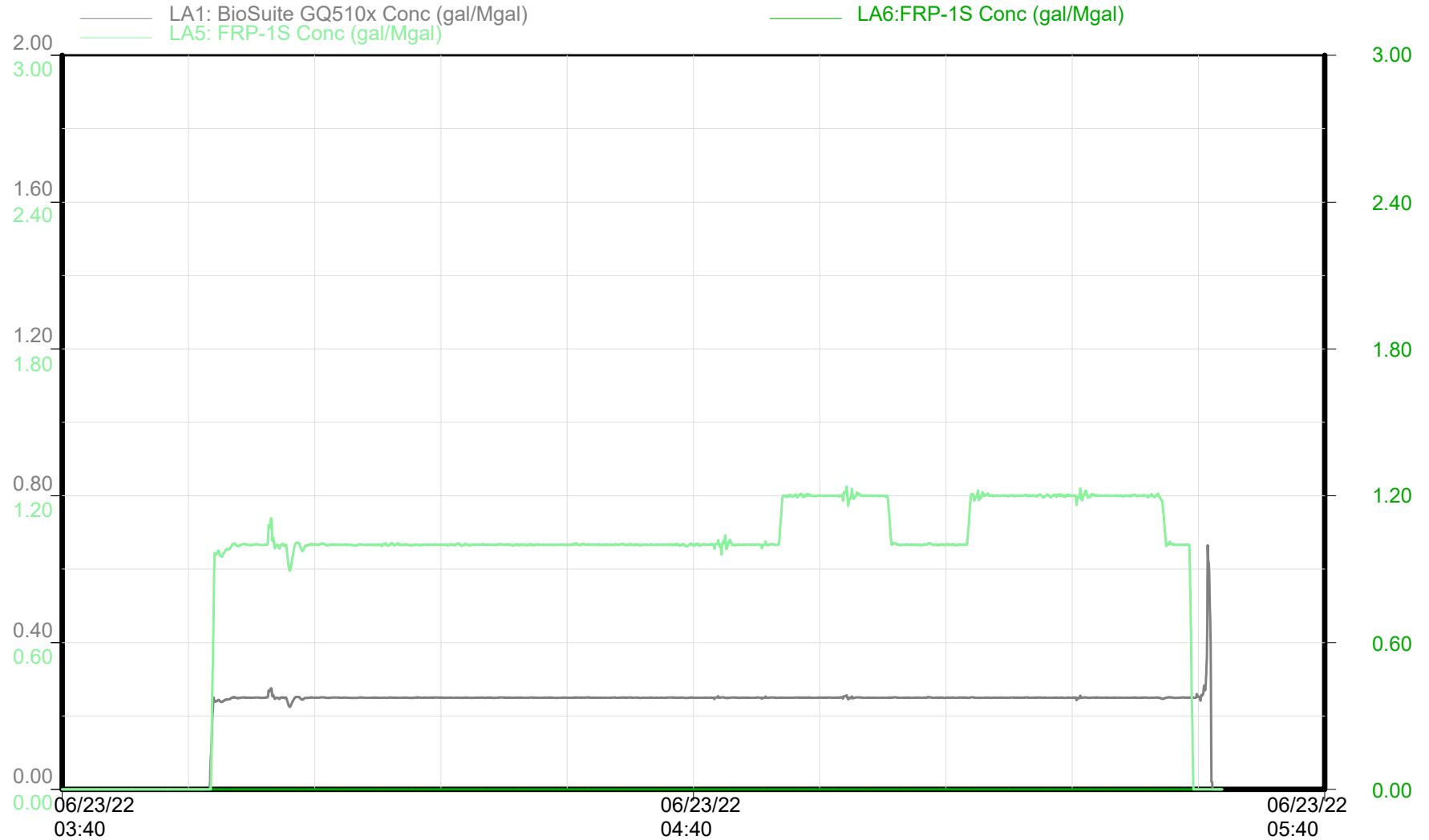
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 27 of 60



Chemical Additives

Time

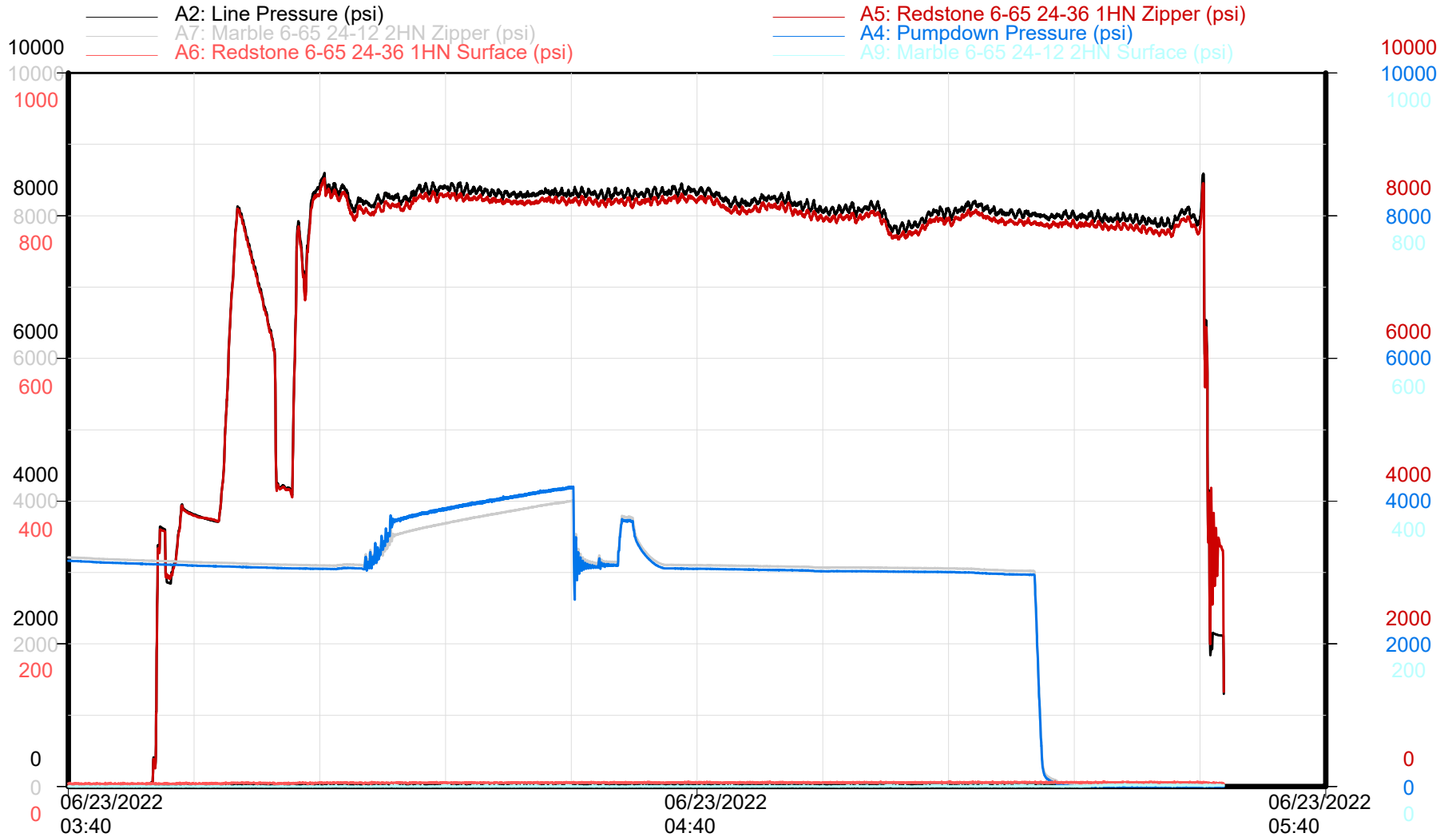
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 27



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 27 of 60



Zipper Pressures

Time

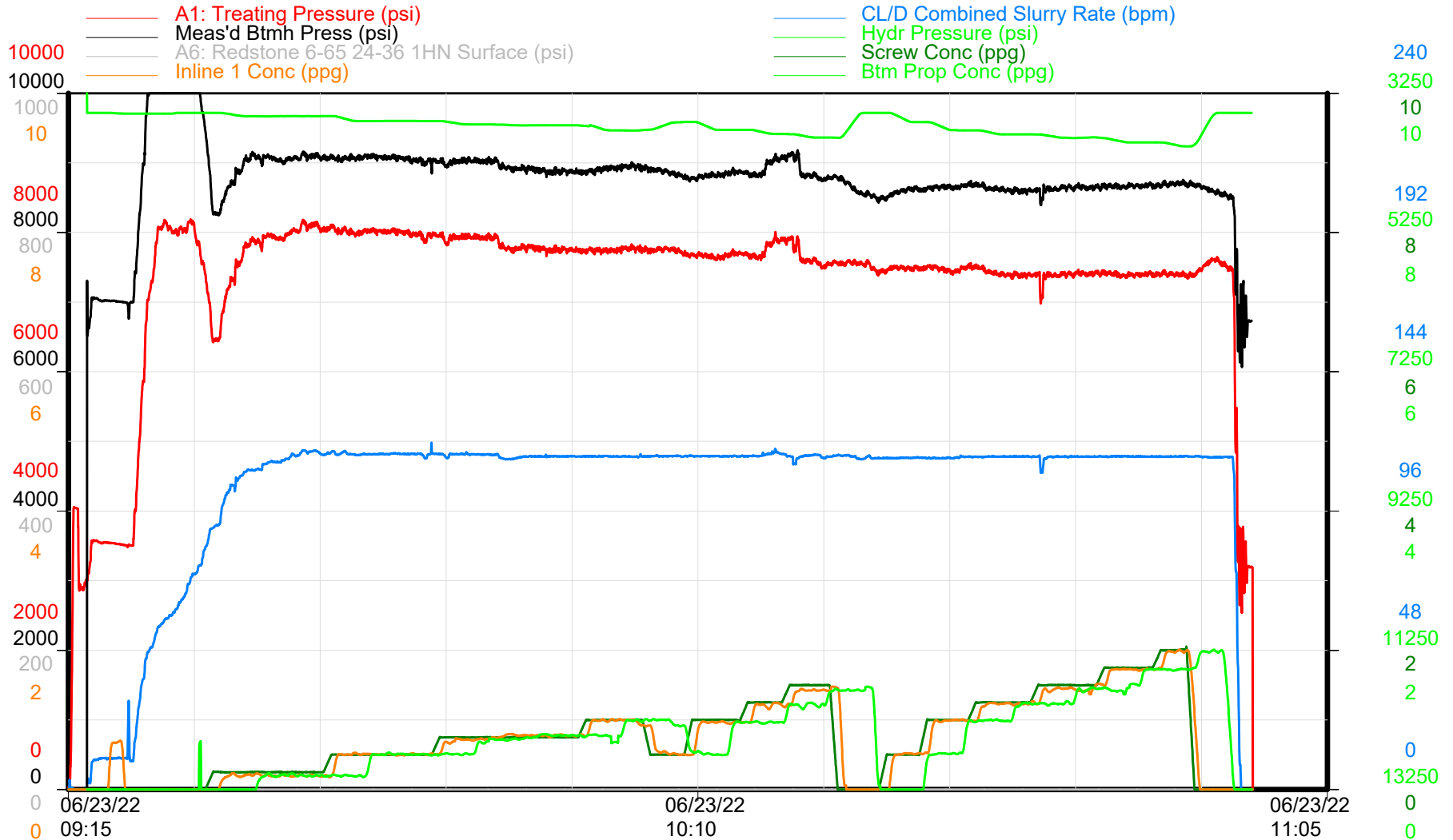
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 28



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 28 of 60



Treatment Plot

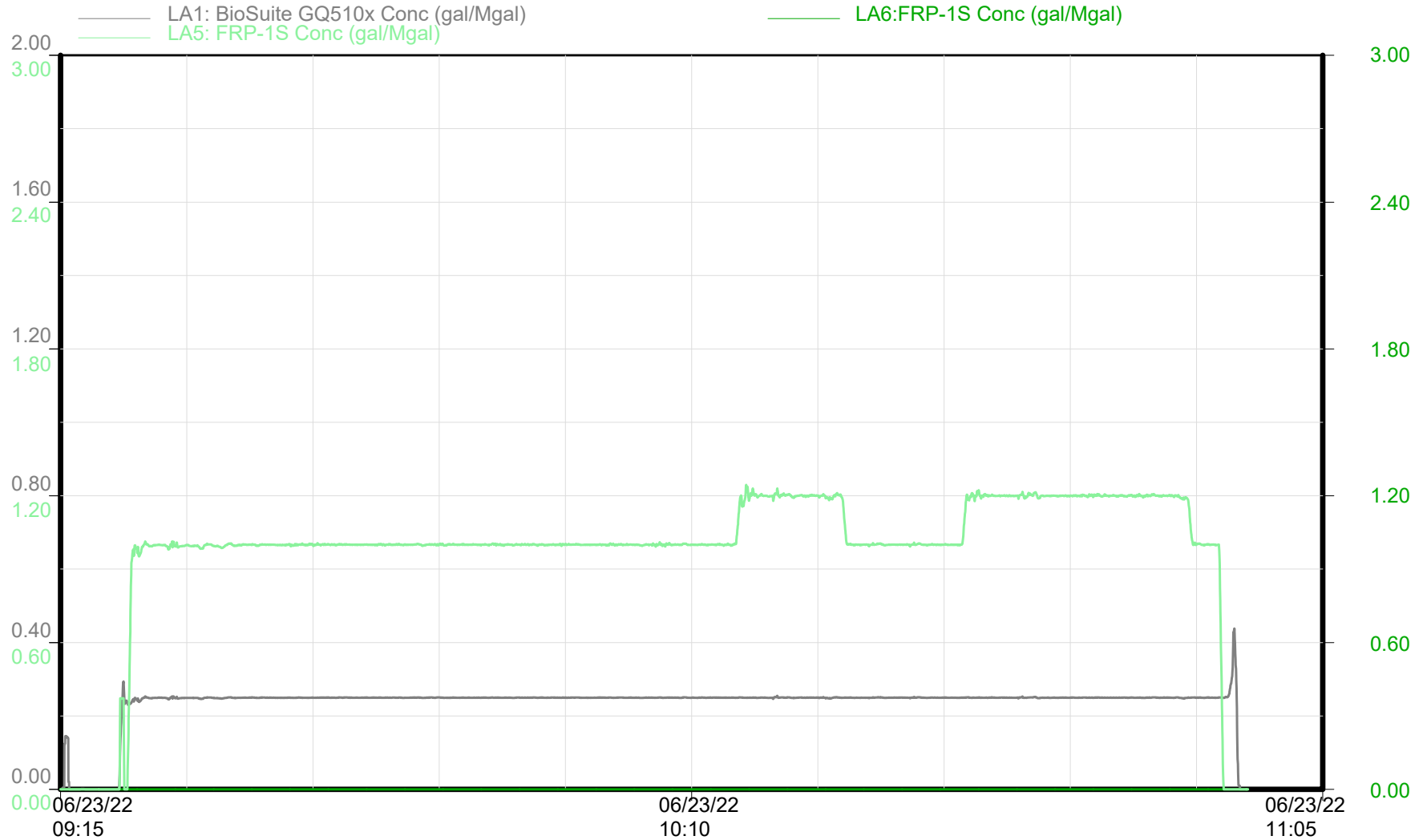
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 28 of 60



Chemical Additives

Time

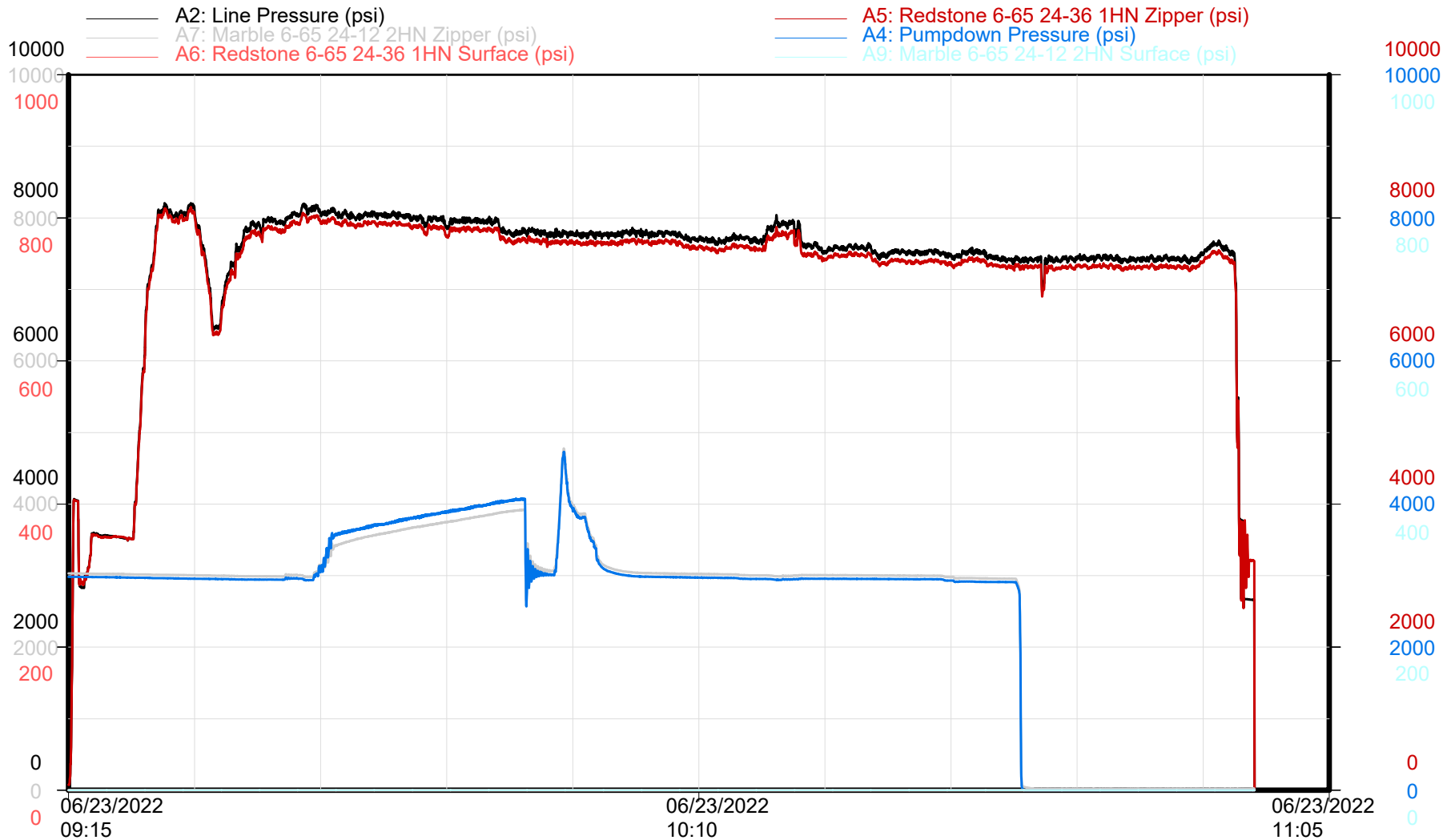
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 28



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 28 of 60



Zipper Pressures

Time

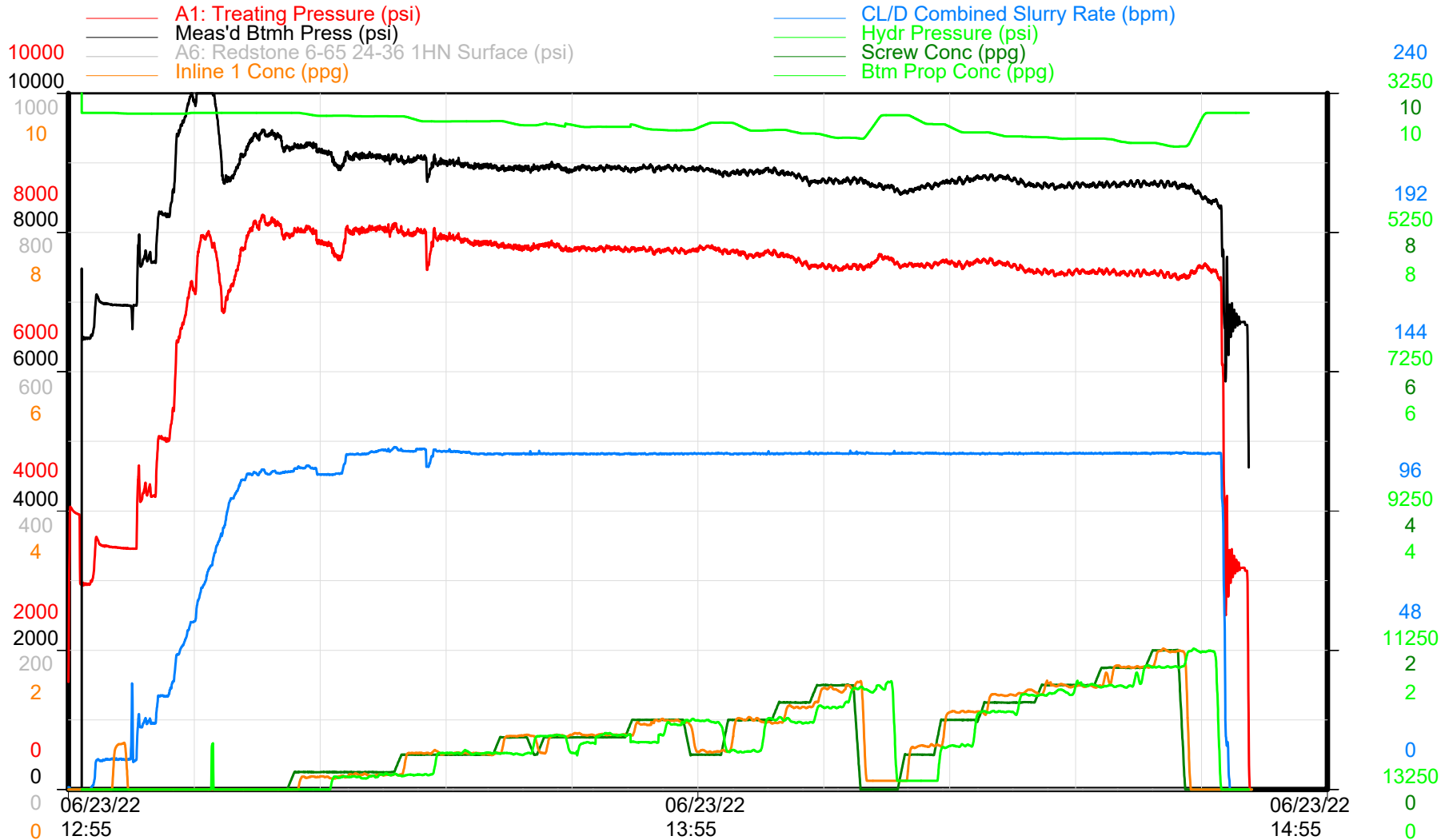
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 29



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 29 of 60



Treatment Plot

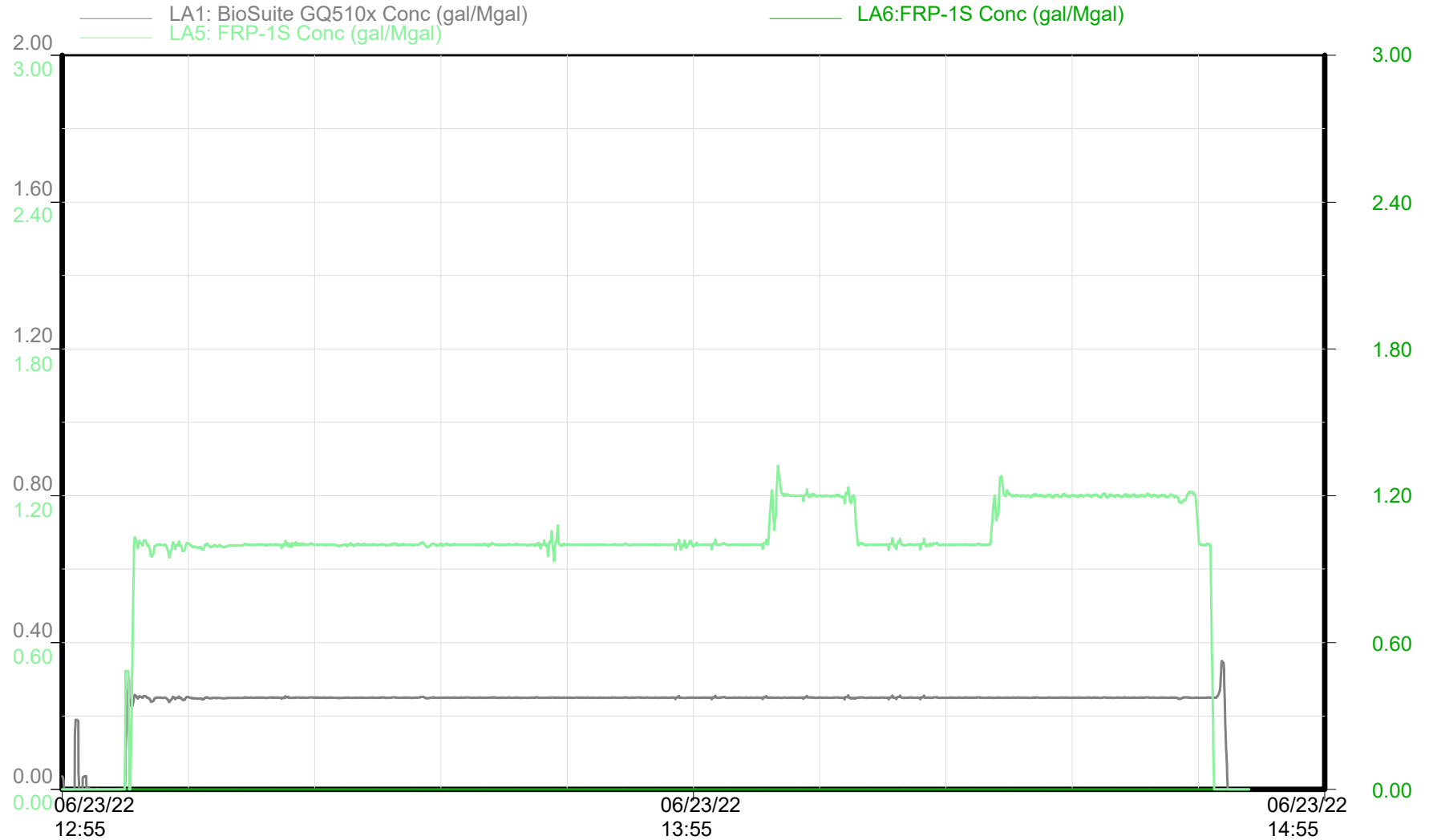
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 29 of 60



Chemical Additives

Time

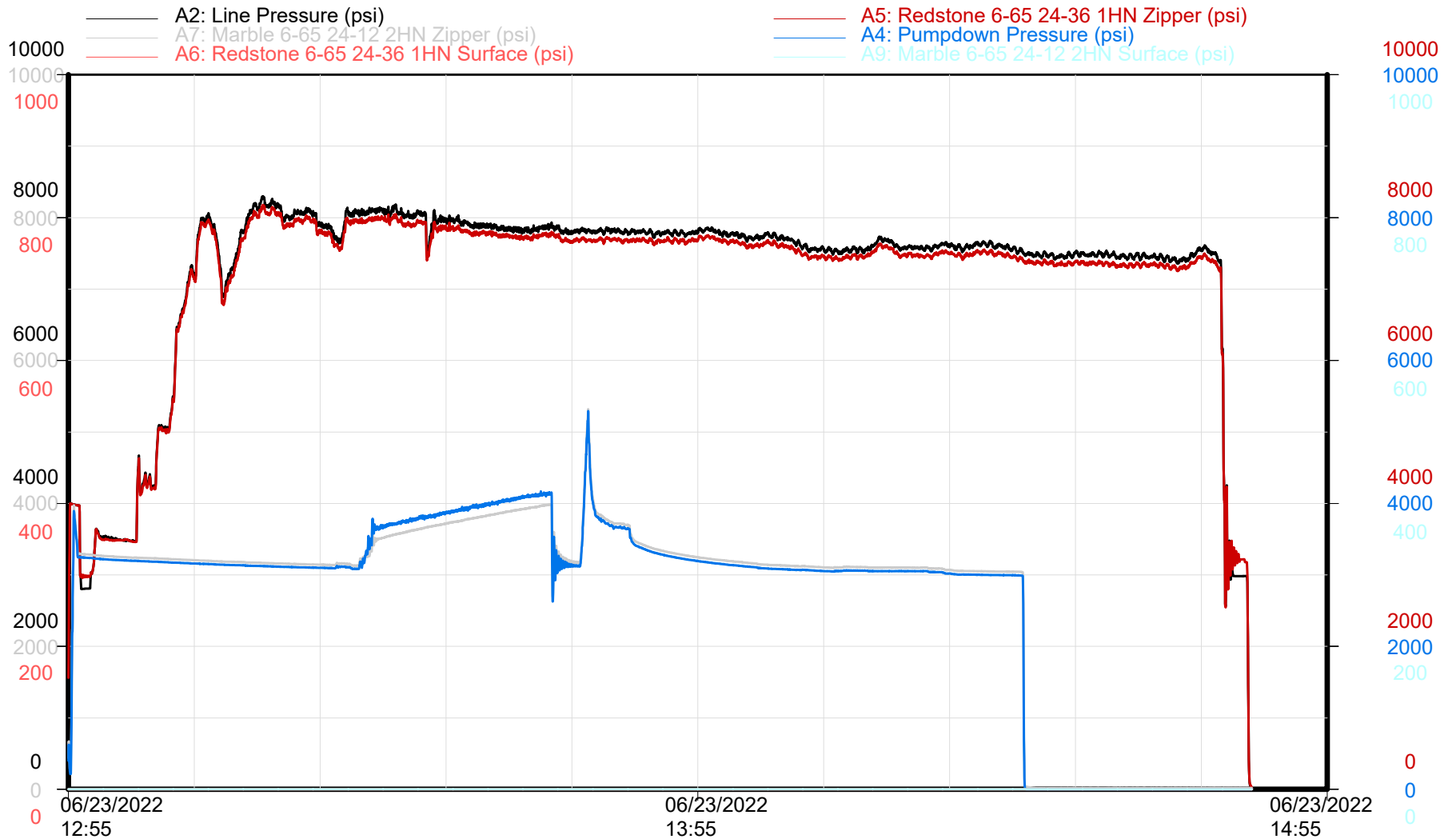
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 29



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 29 of 60



Zipper Pressures

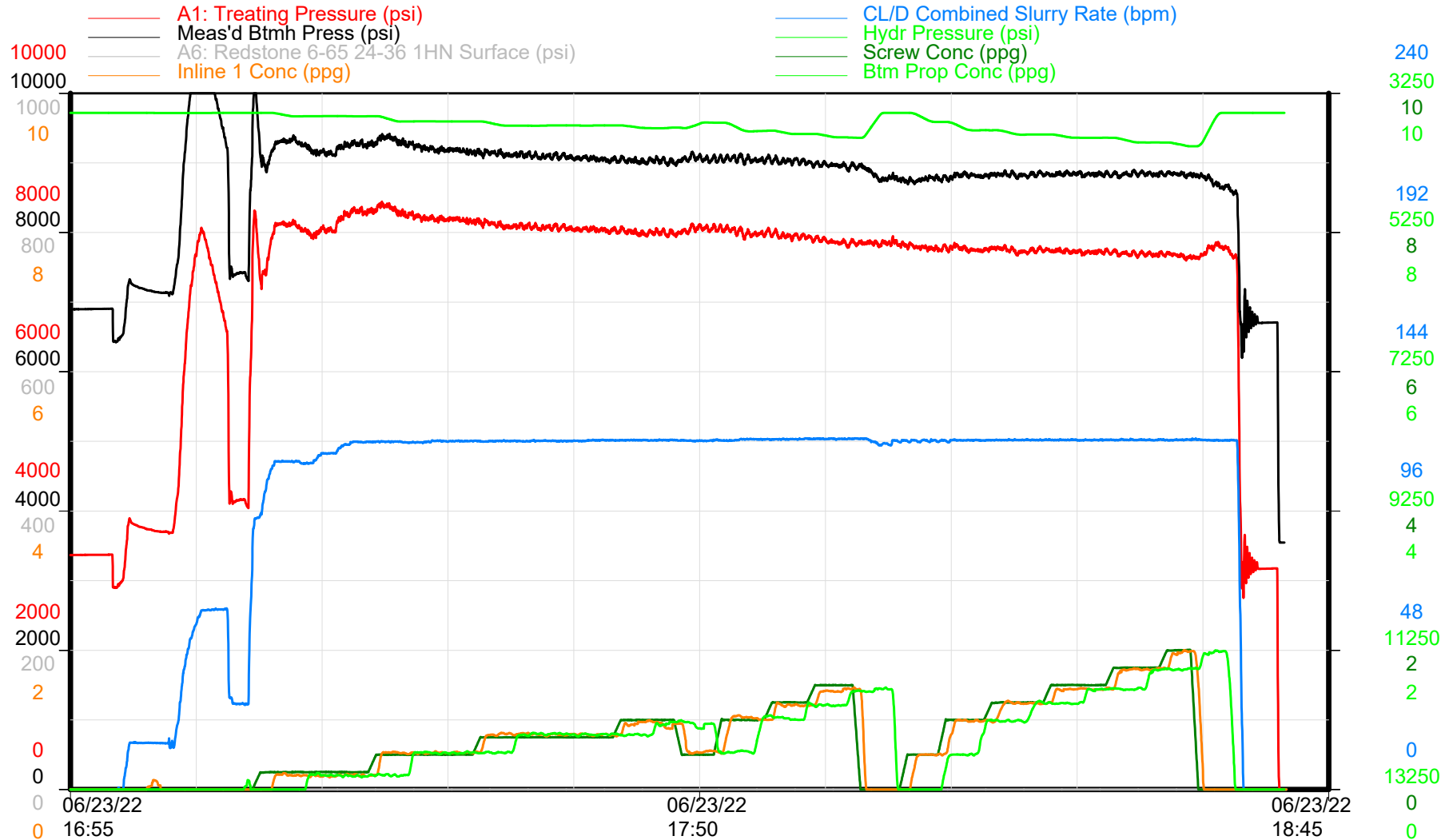
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 30

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 30 of 60



Treatment Plot

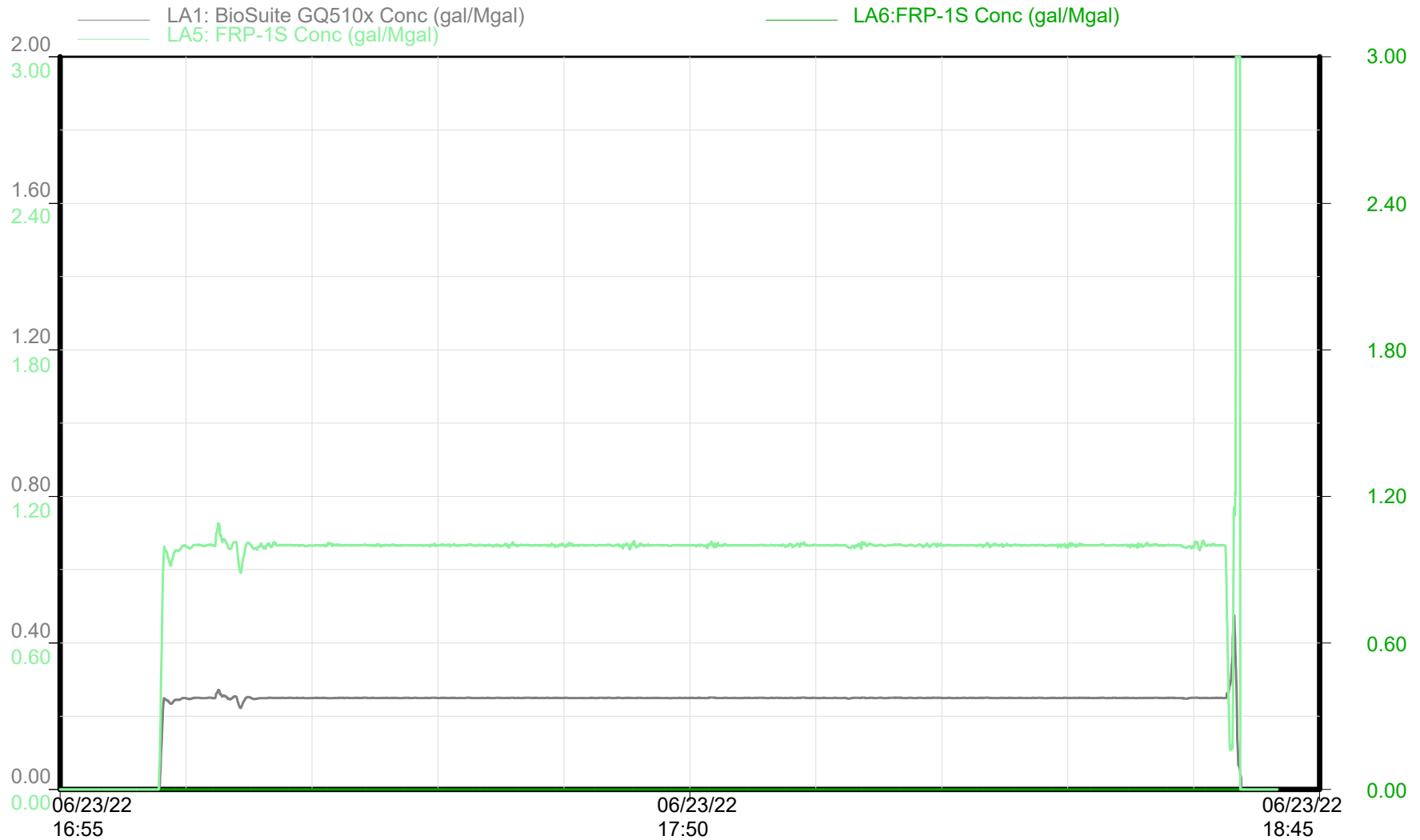
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 30 of 60



Chemical Additives

Time

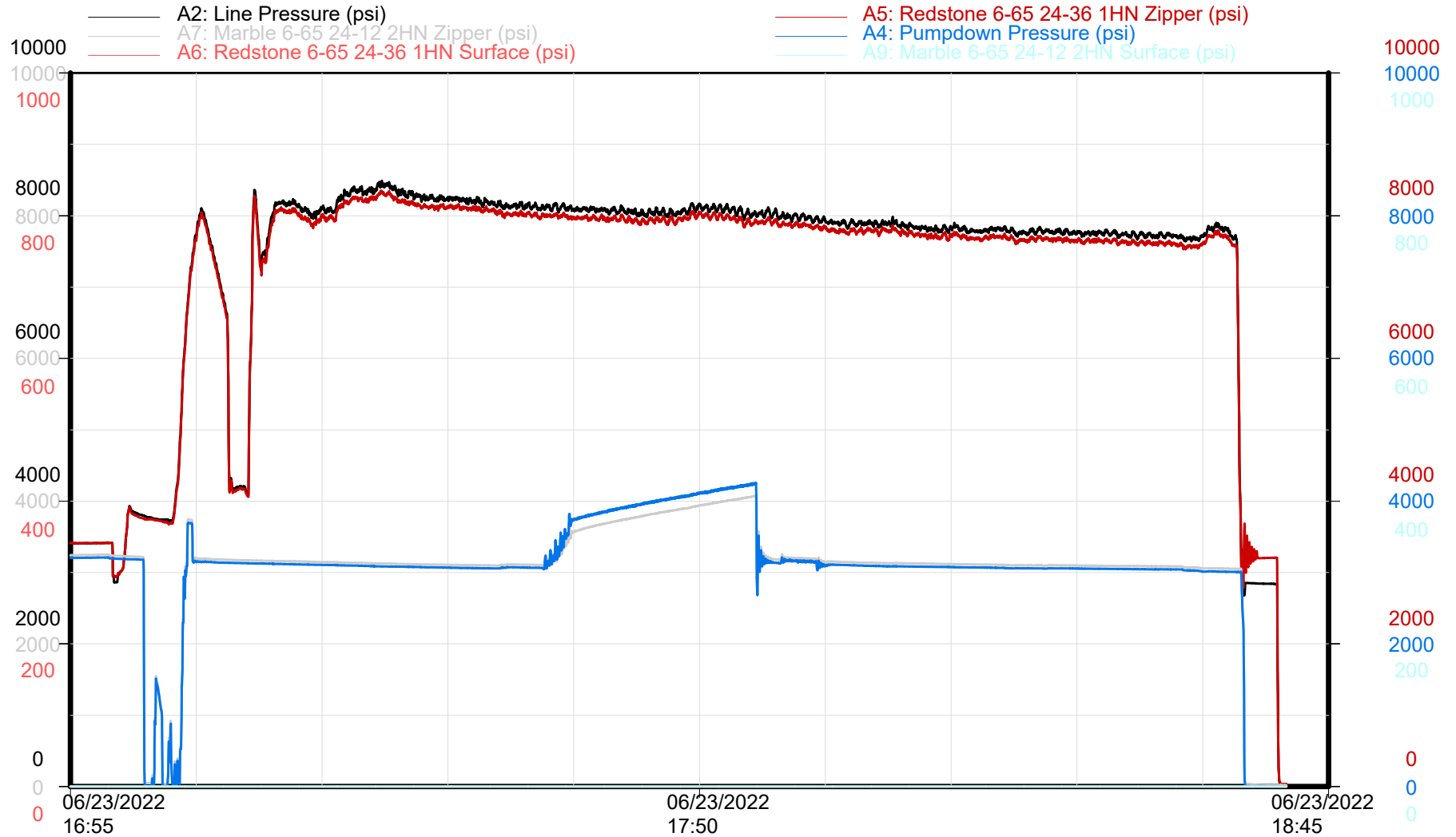
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 30



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 30 of 60



Zipper Pressures

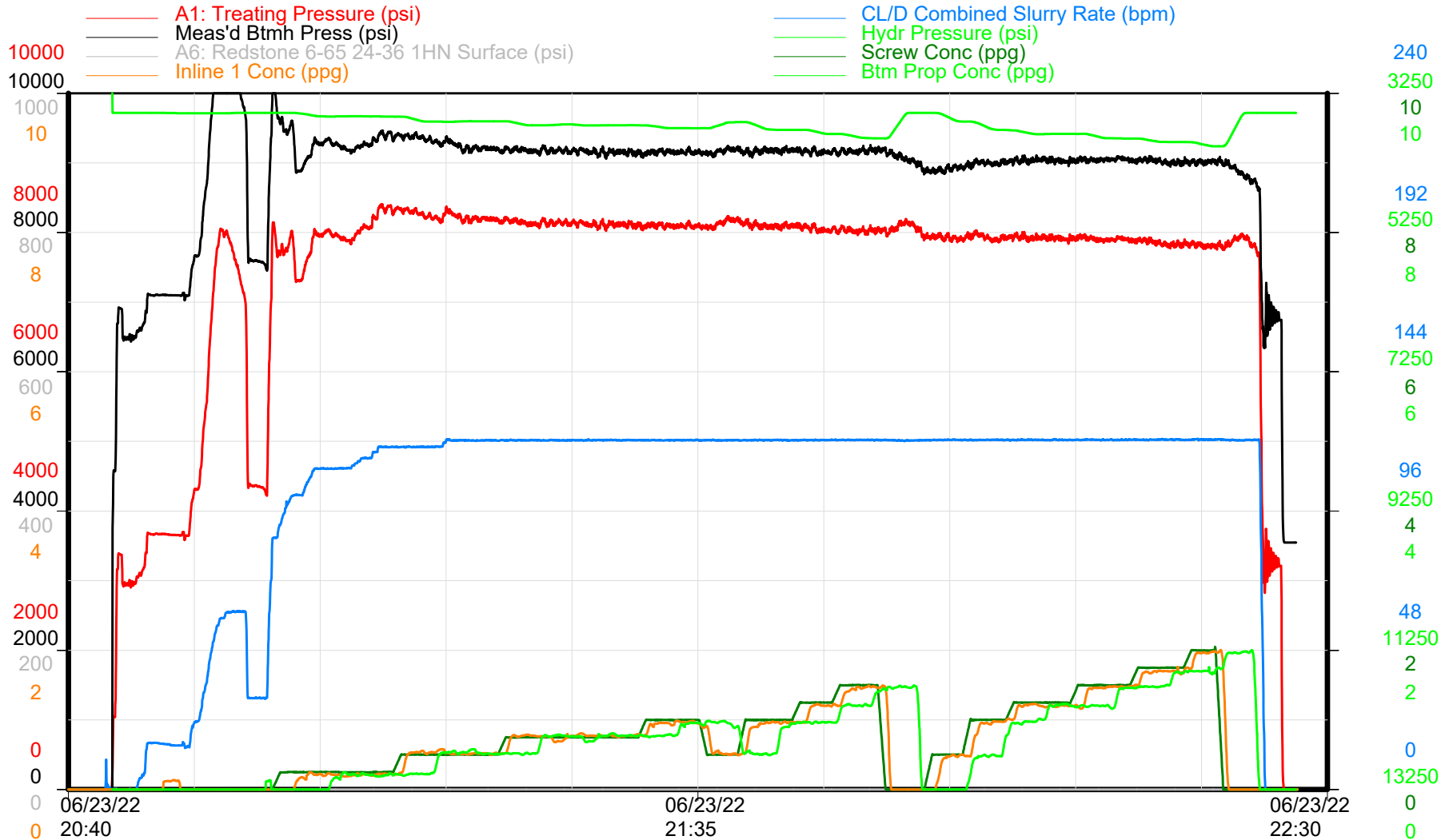
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 31

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 31 of 60



Treatment Plot

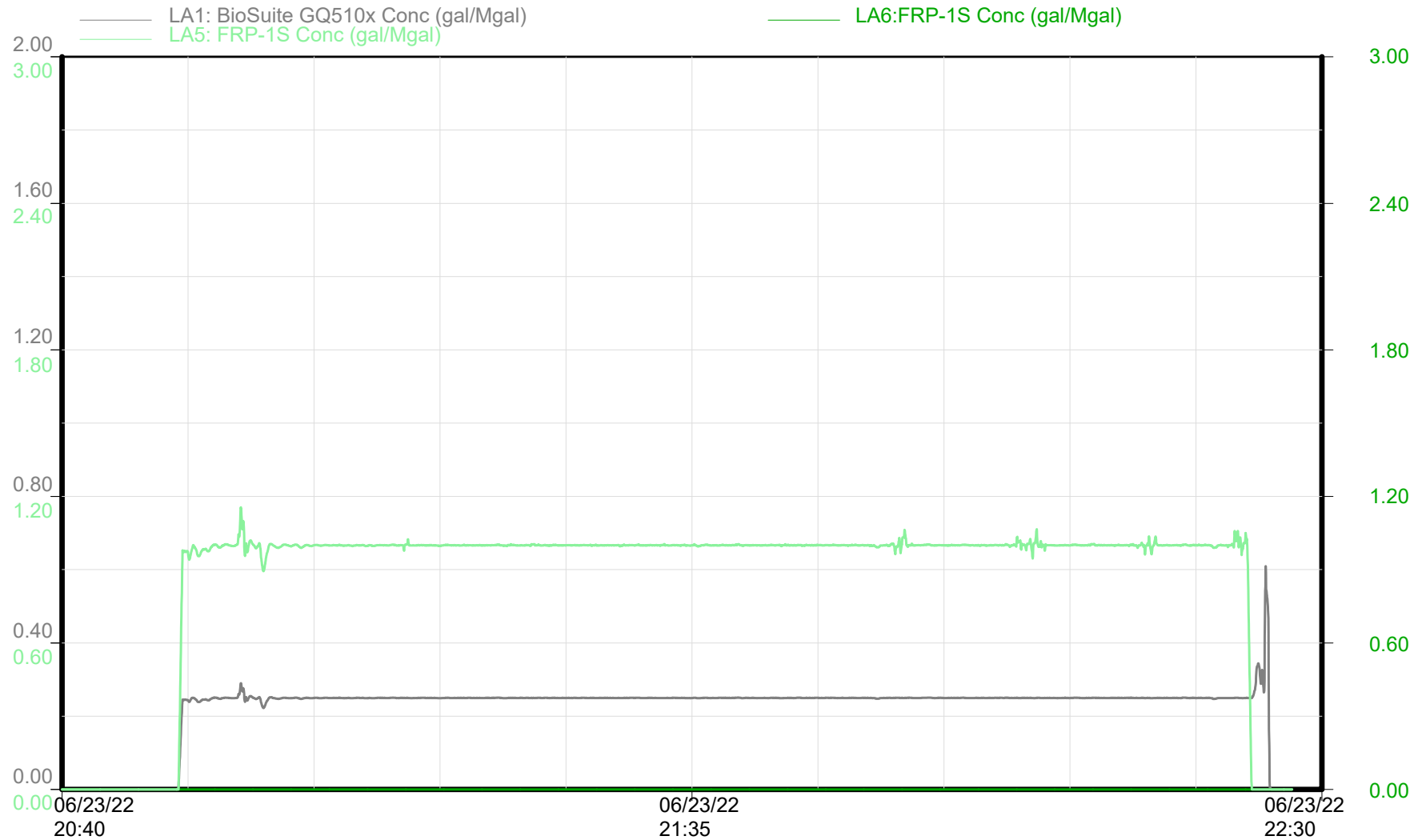
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 31 of 60



Chemical Additives

Time

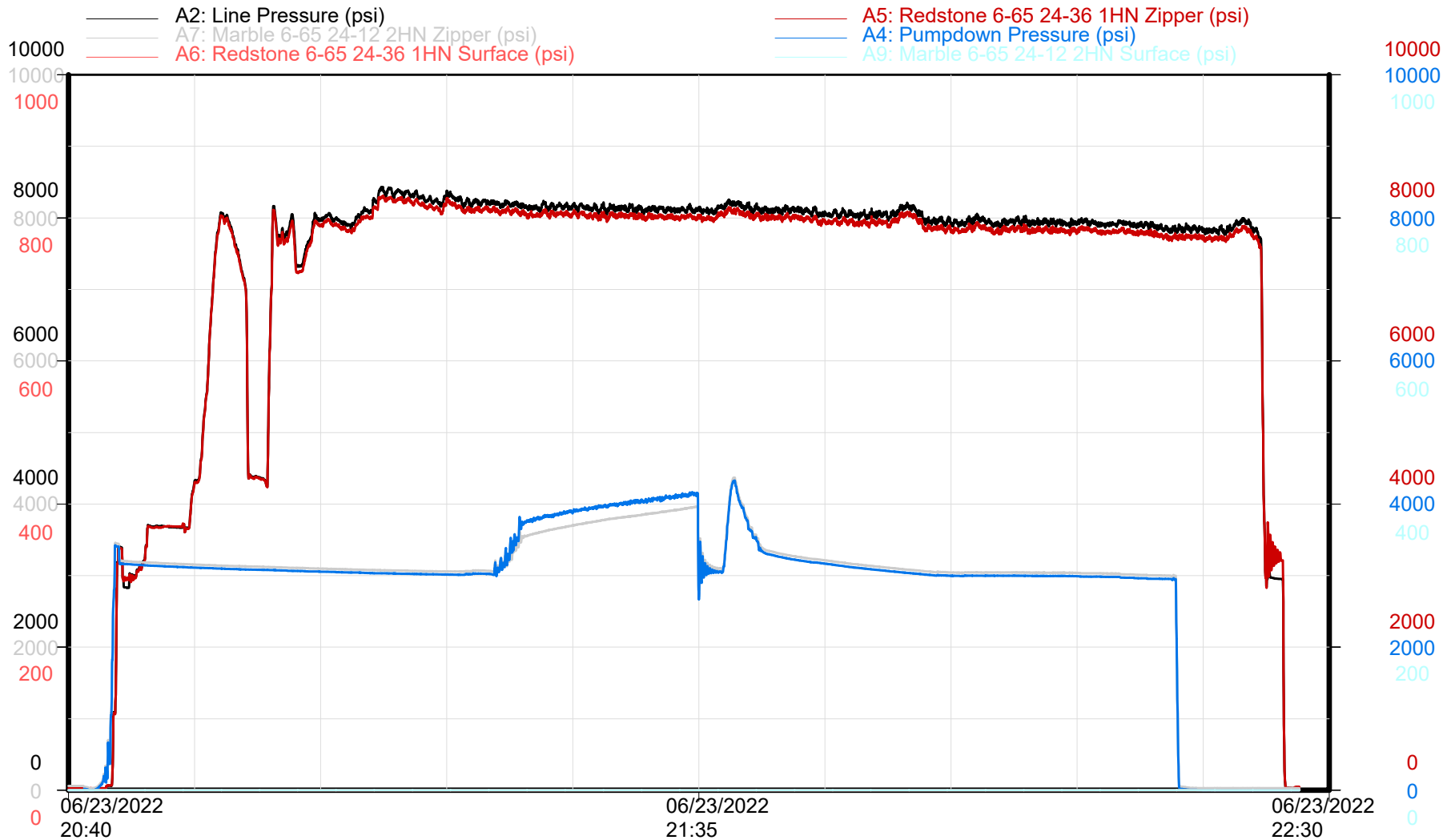
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 31



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 31 of 60



Zipper Pressures

Time

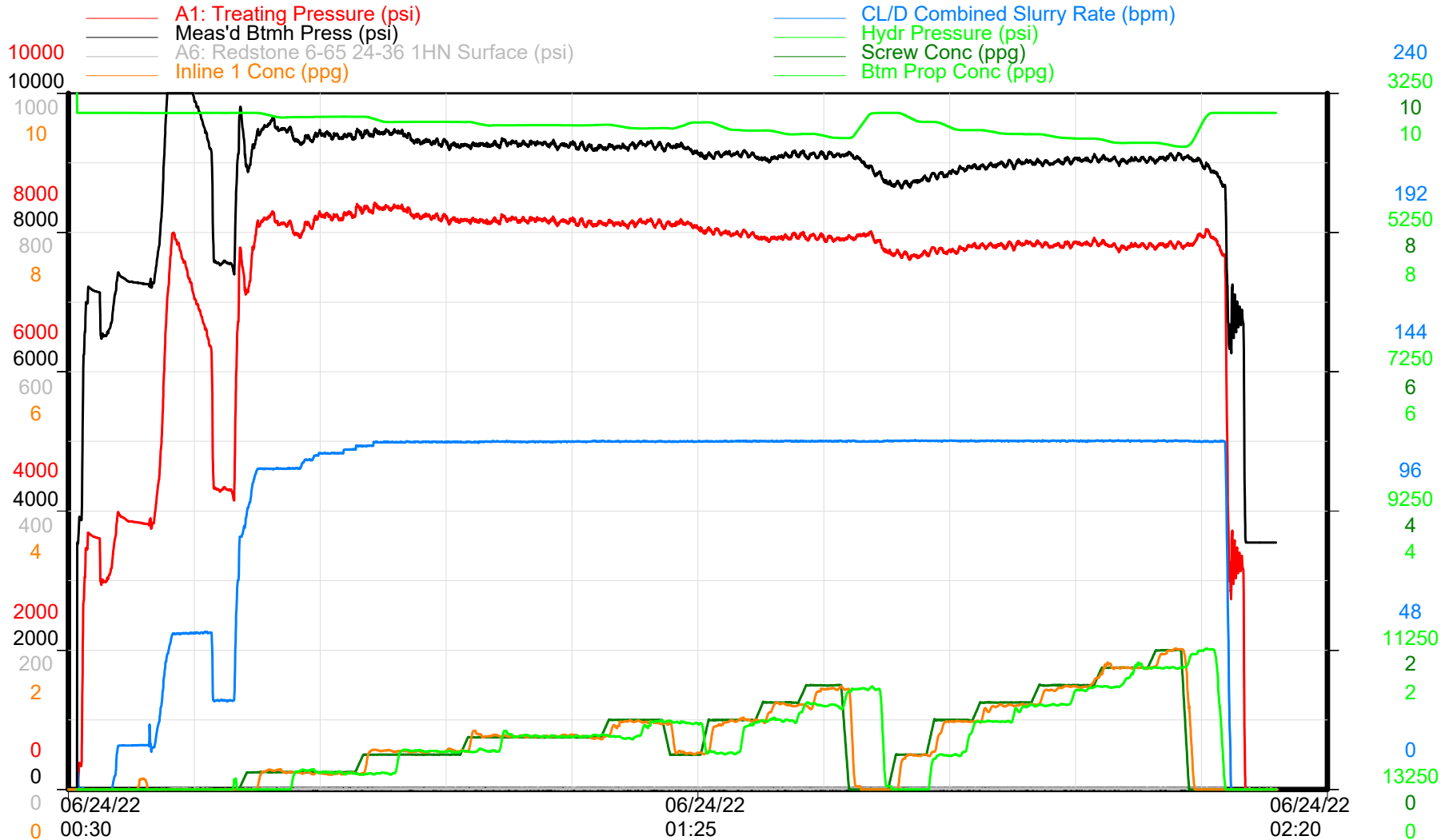
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 32



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 32 of 60



Treatment Plot

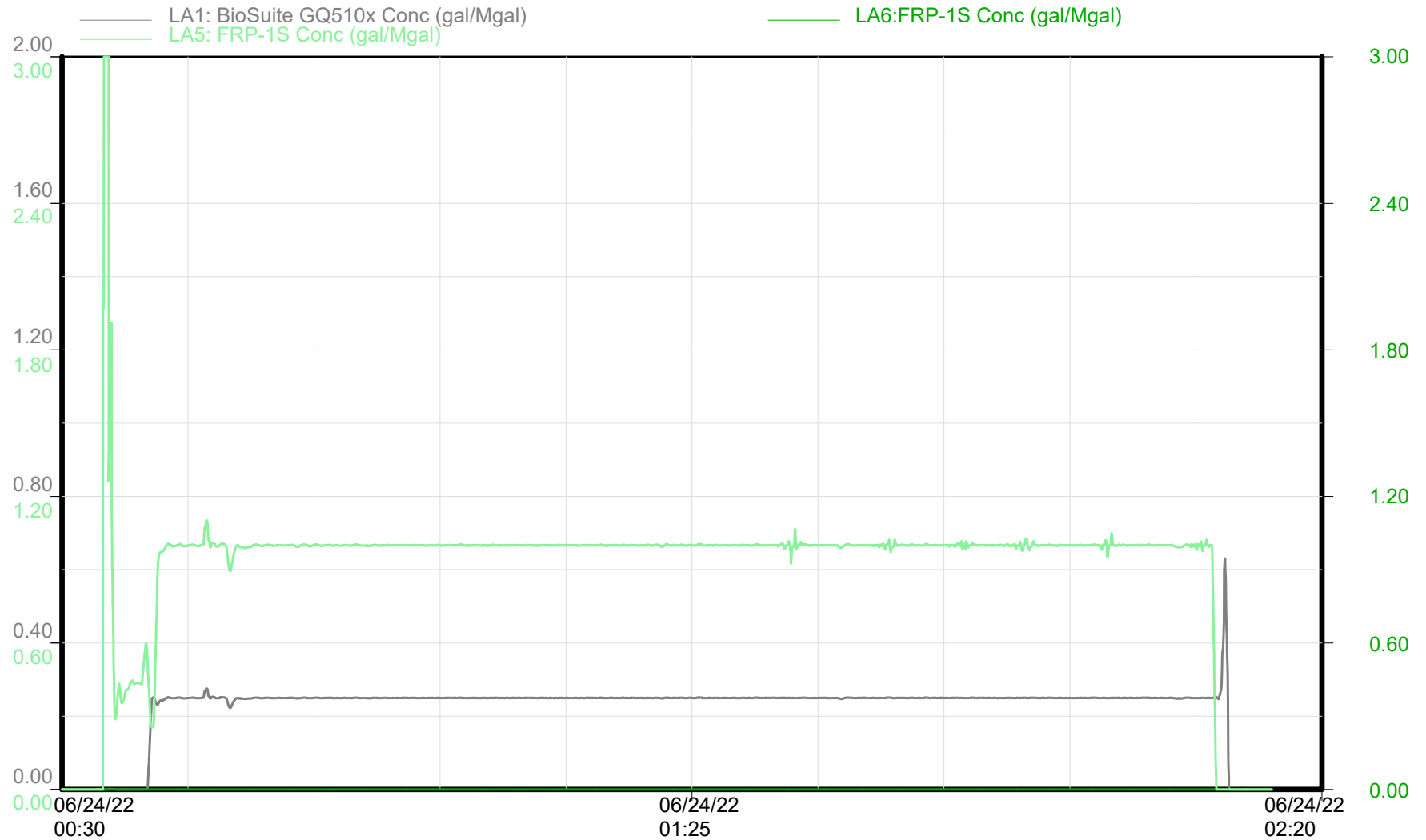
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 32 of 60



Chemical Additives

Time

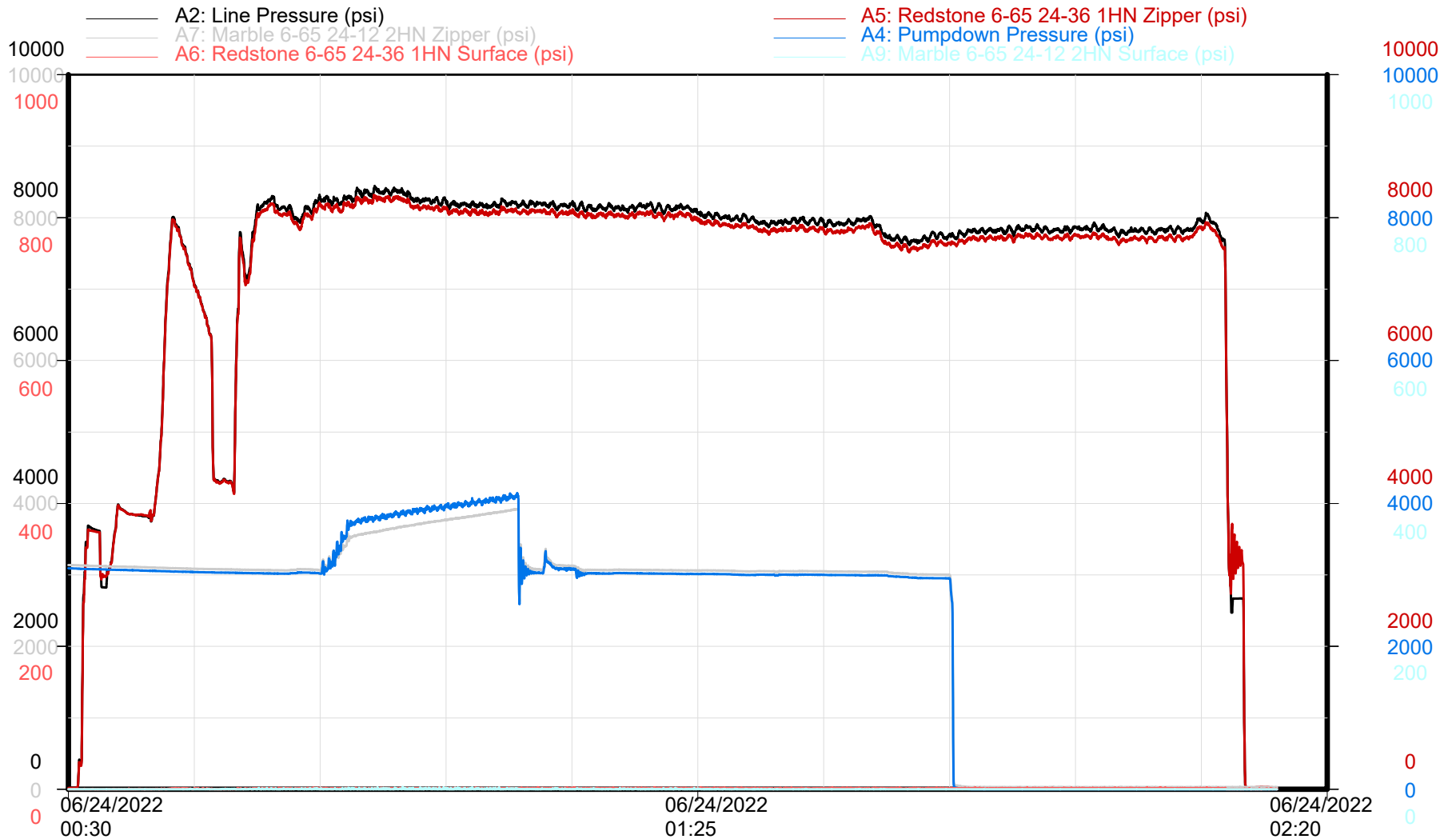
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 32



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 32 of 60



Zipper Pressures

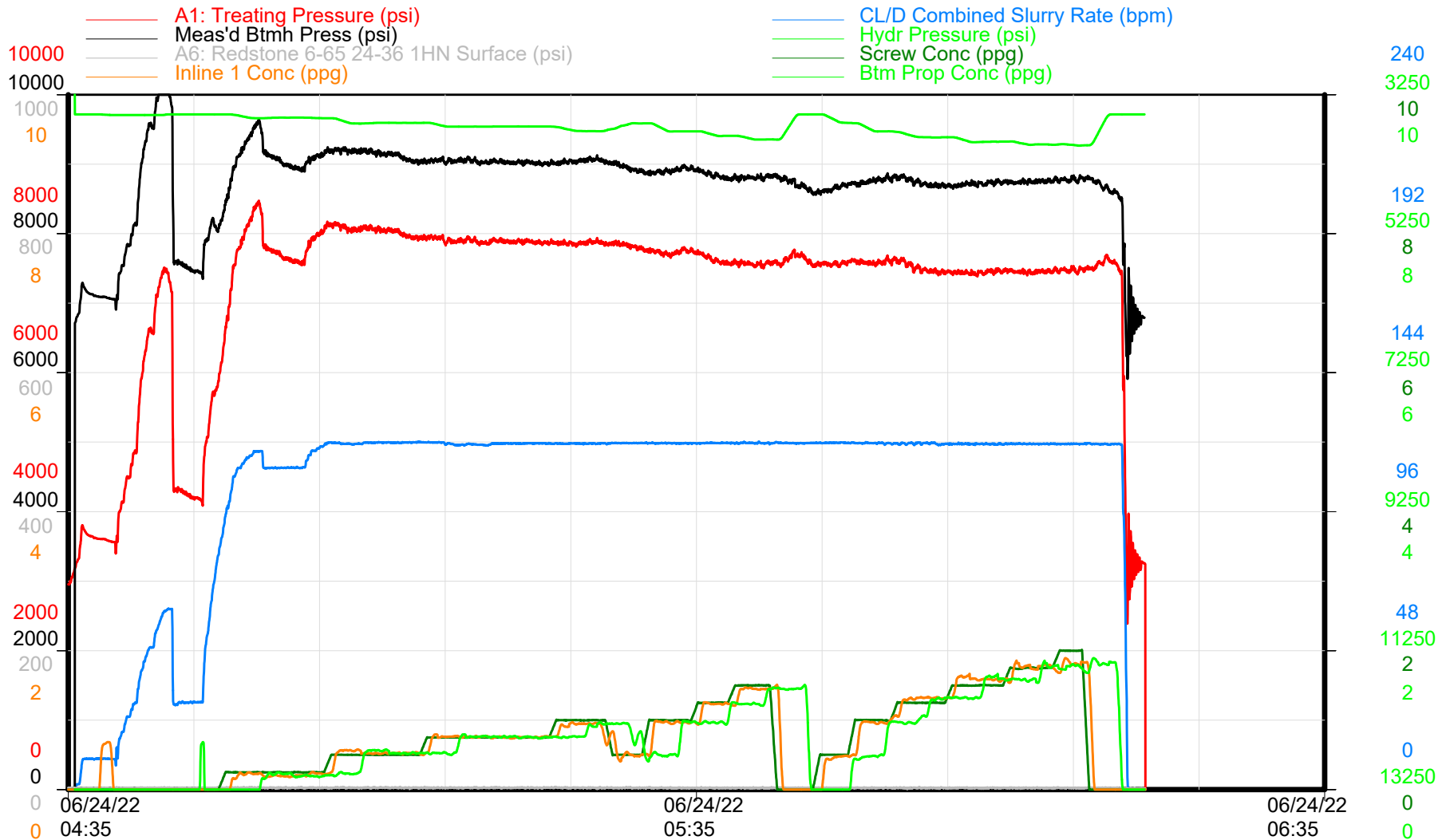
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 33

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 33 of 60



Treatment Plot

Time

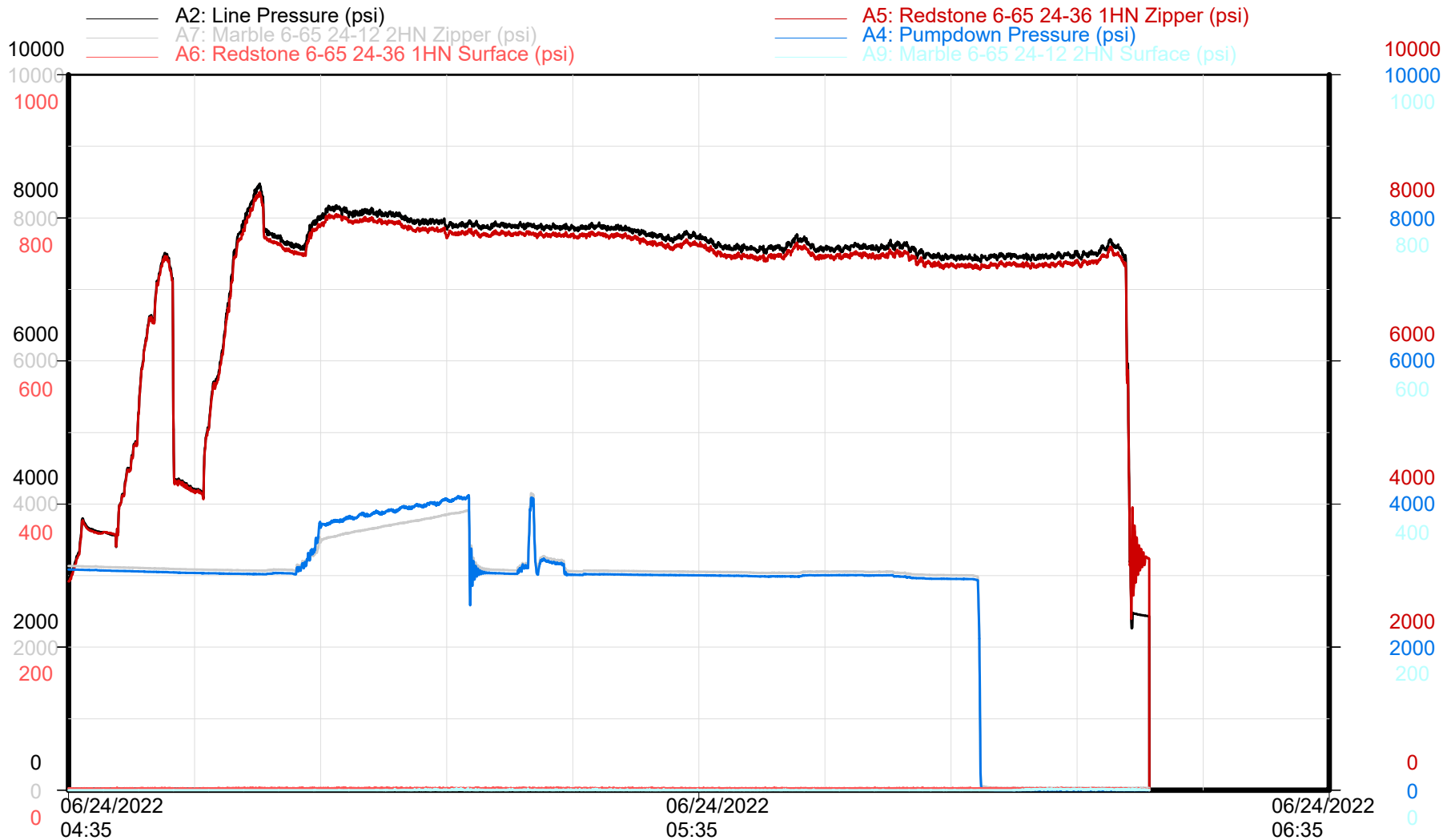
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 33



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 33 of 60



Zipper Pressures

Time

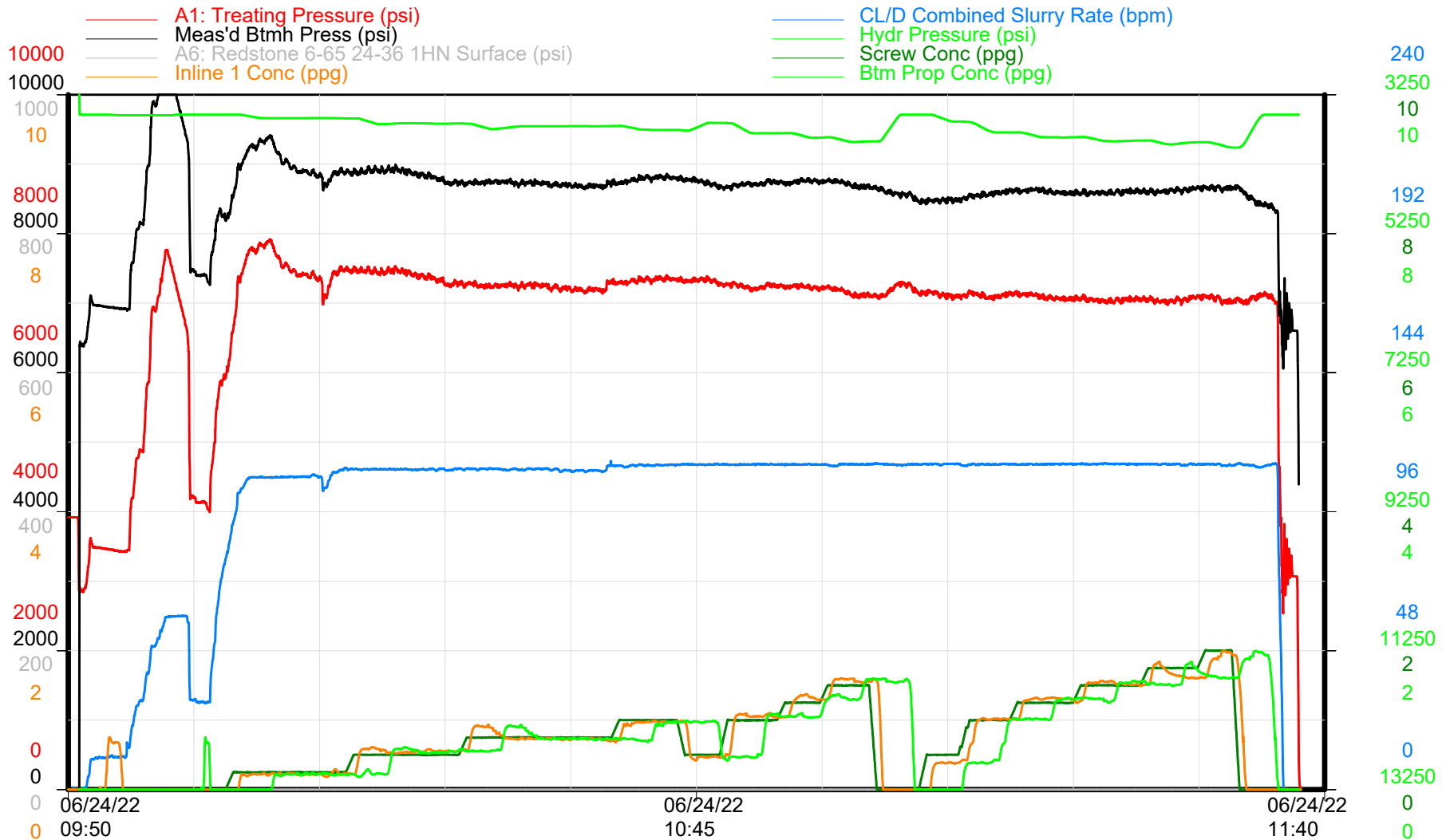
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 34



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 34 of 60



Treatment Plot

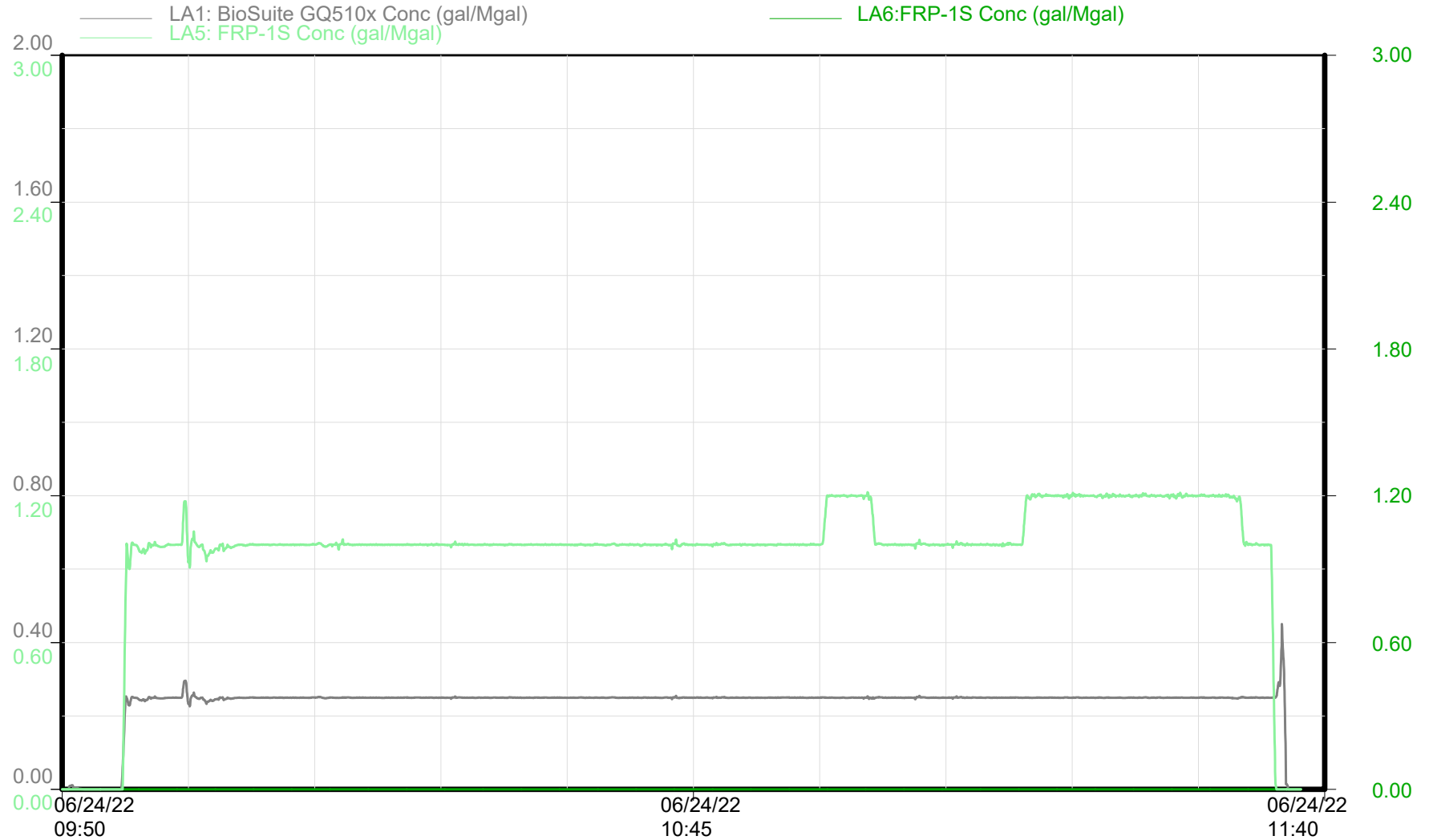
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 34 of 60



Chemical Additives

Time

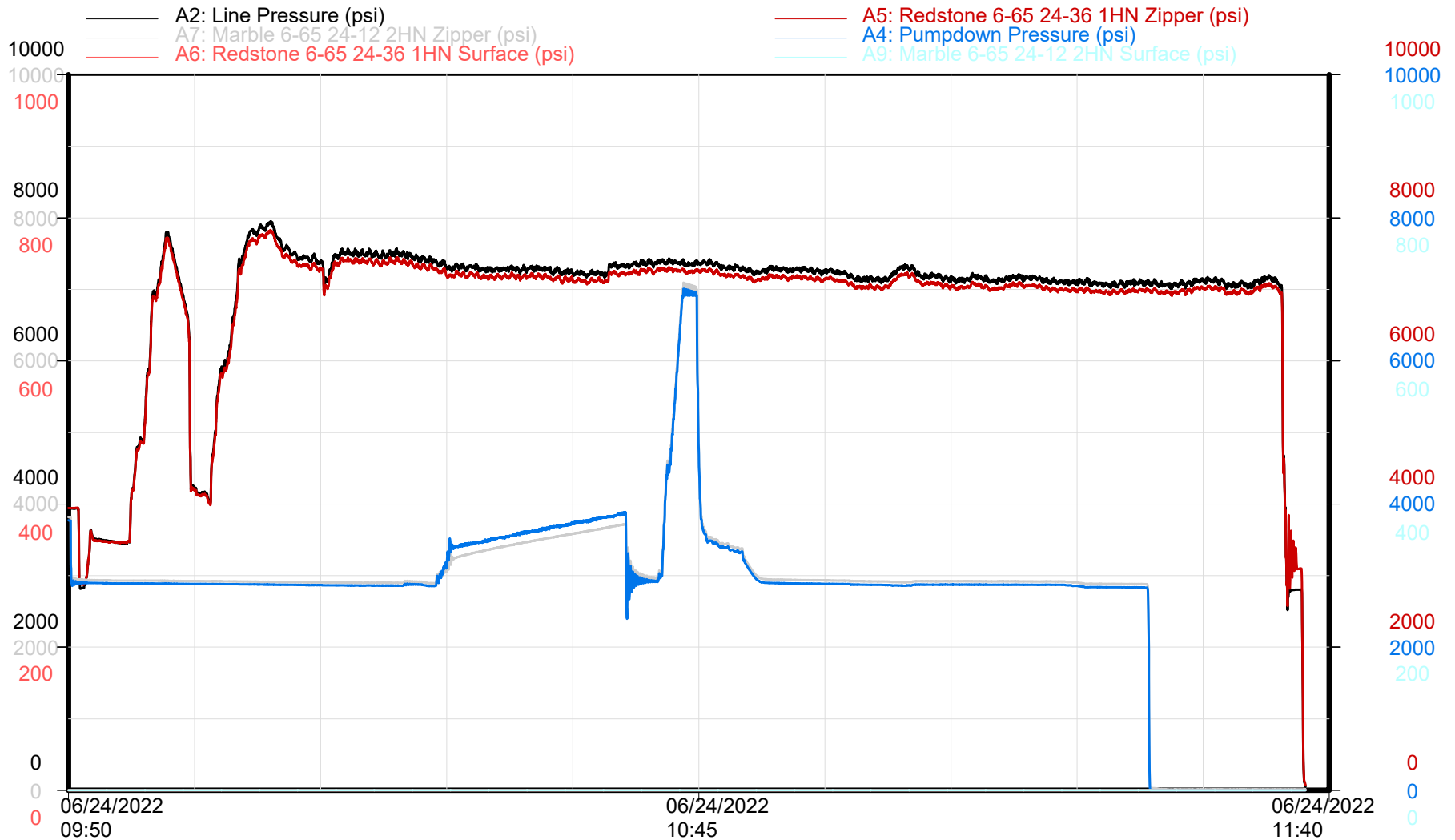
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 34



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 34 of 60



Zipper Pressures

Time

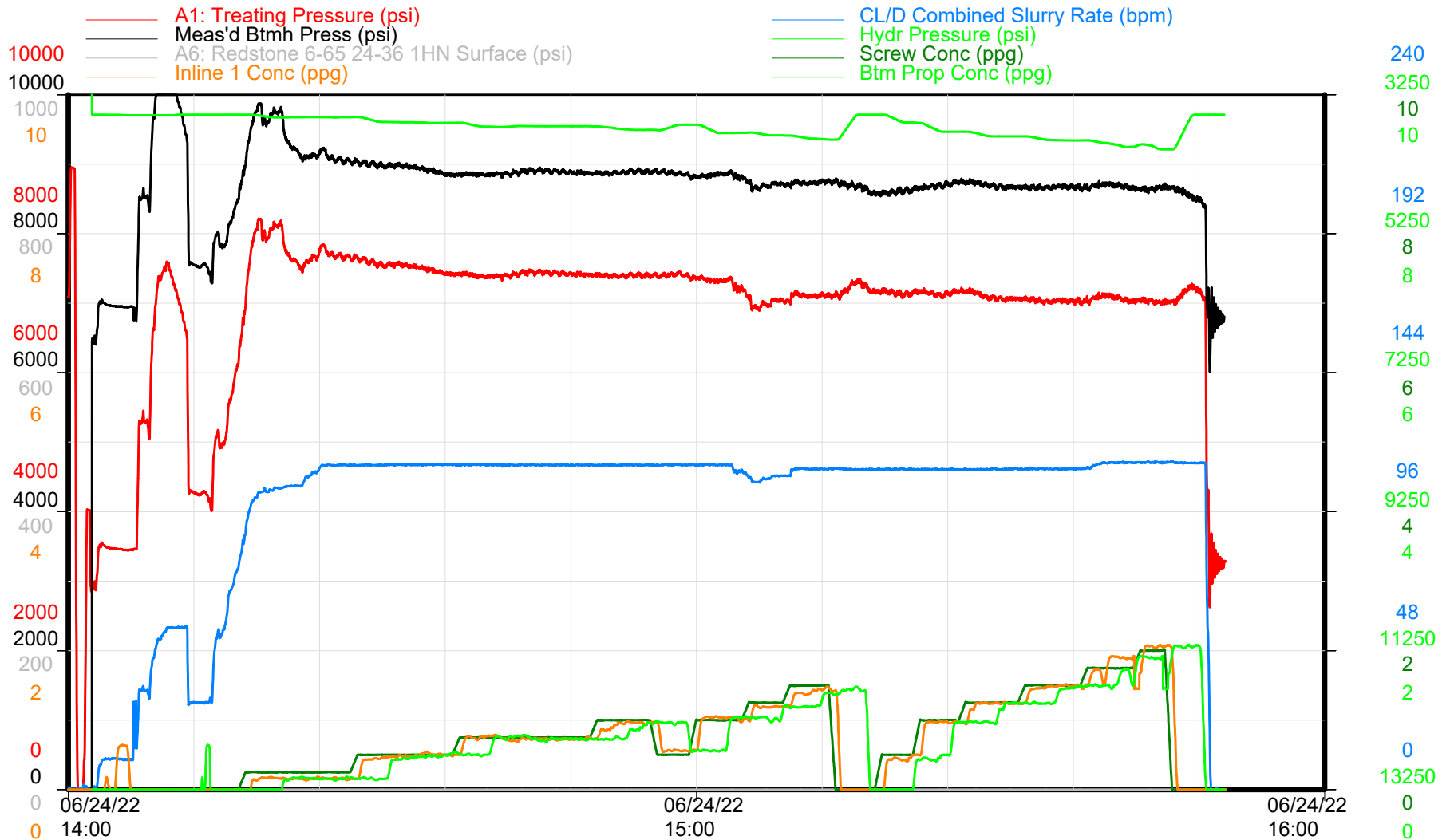
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 35



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 35 of 60



Treatment Plot

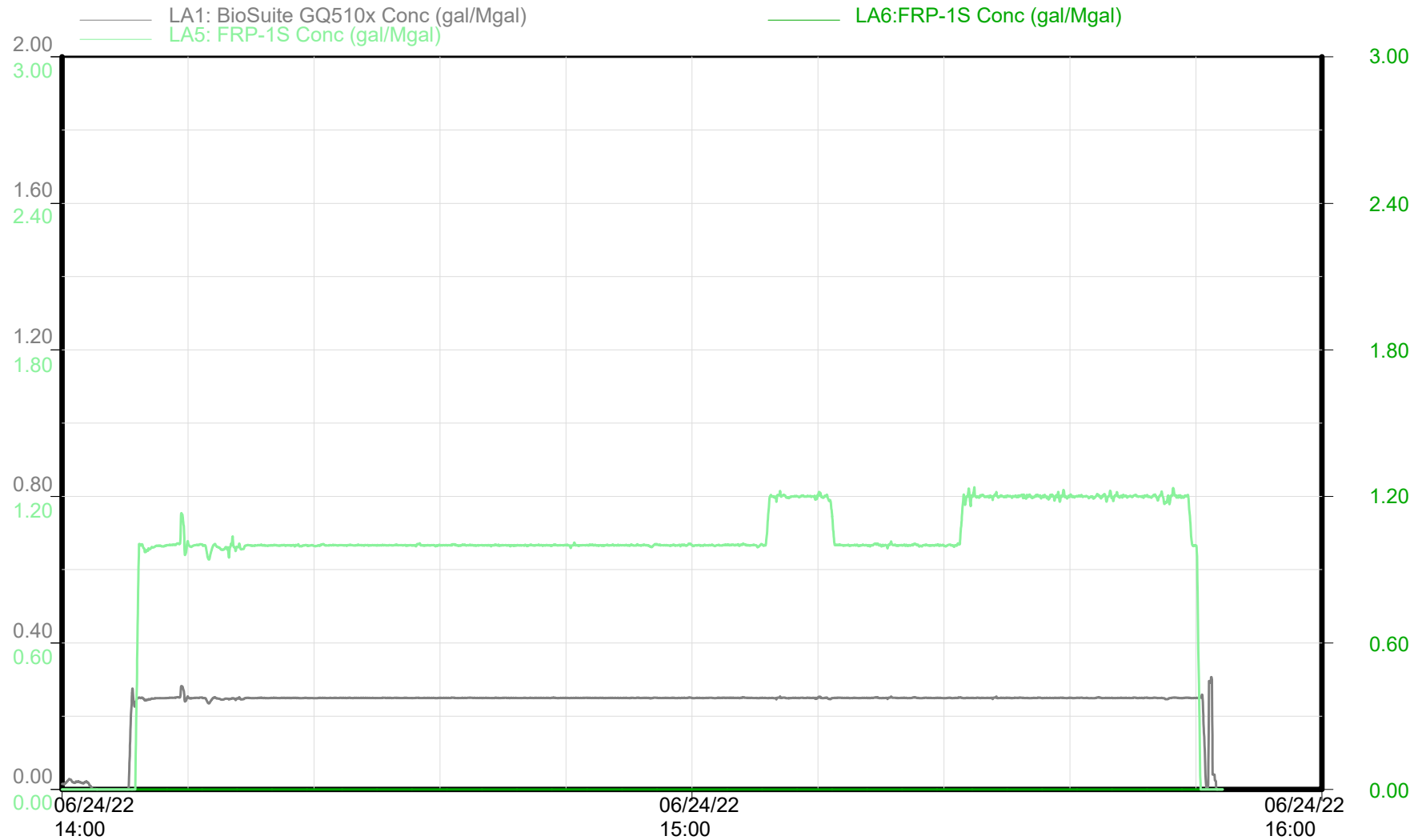
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 35 of 60



Chemical Additives

Time

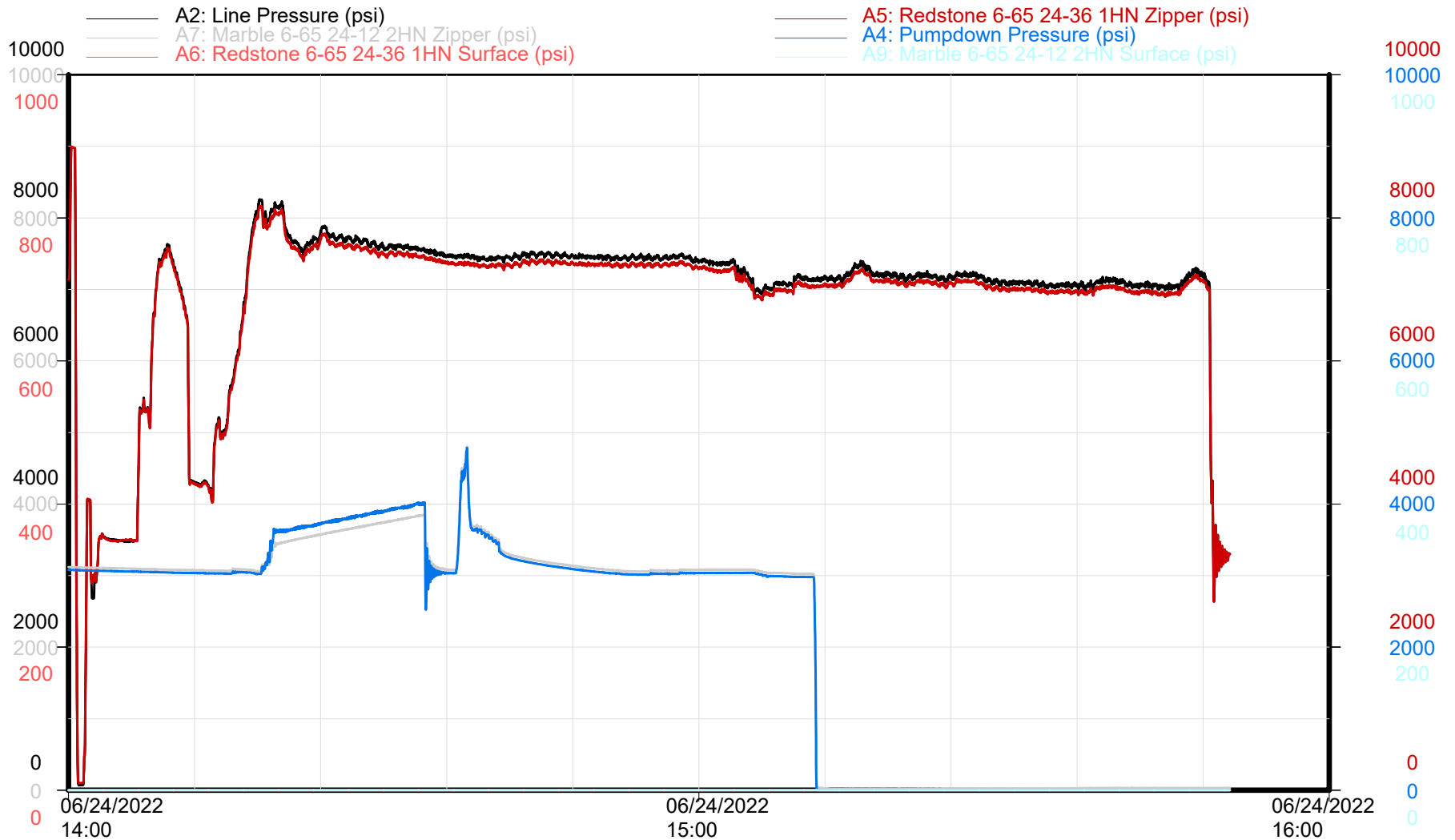
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 35



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 35 of 60



Zipper Pressures

Time

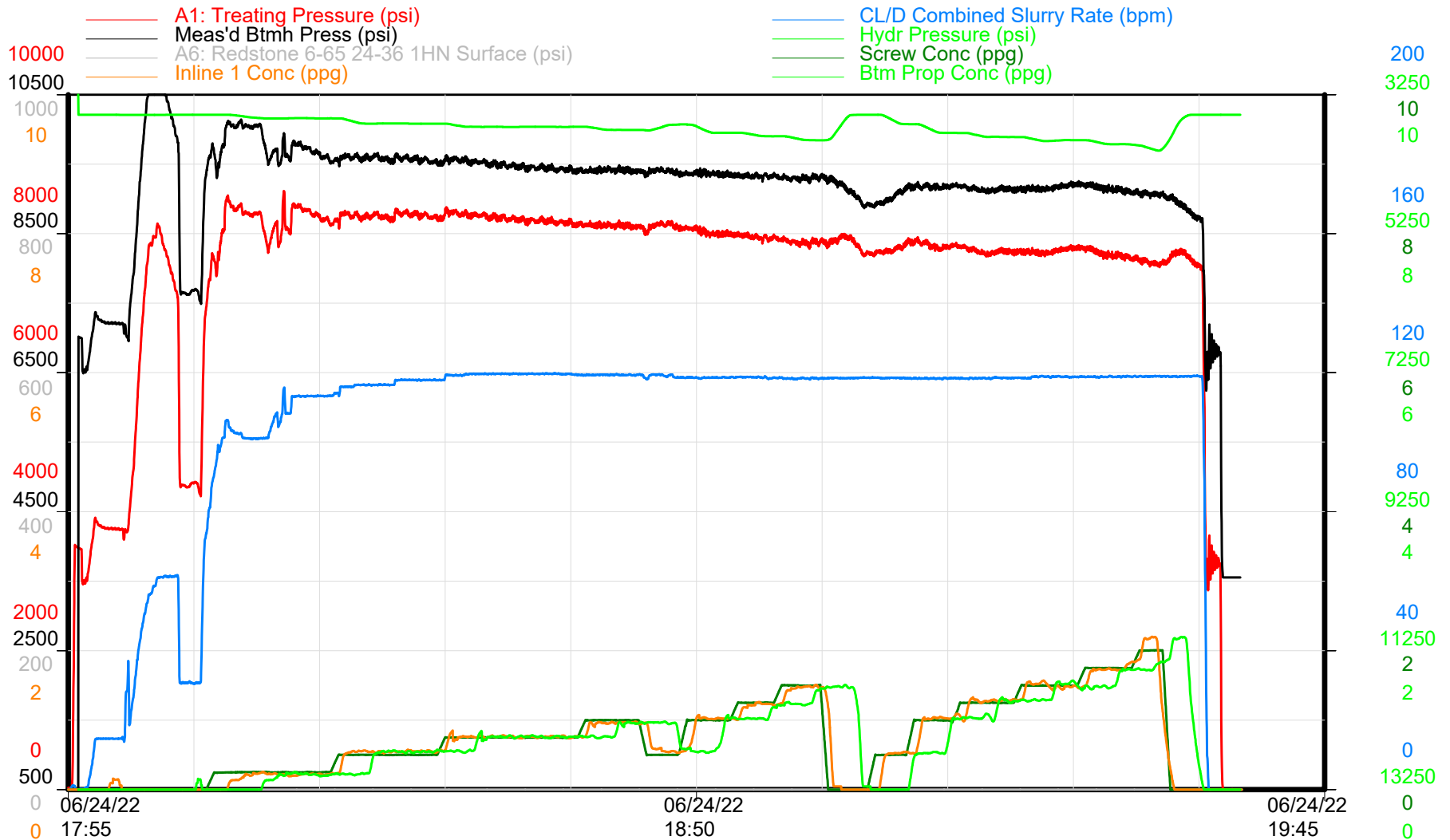
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 36



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 36 of 60



Treatment Plot

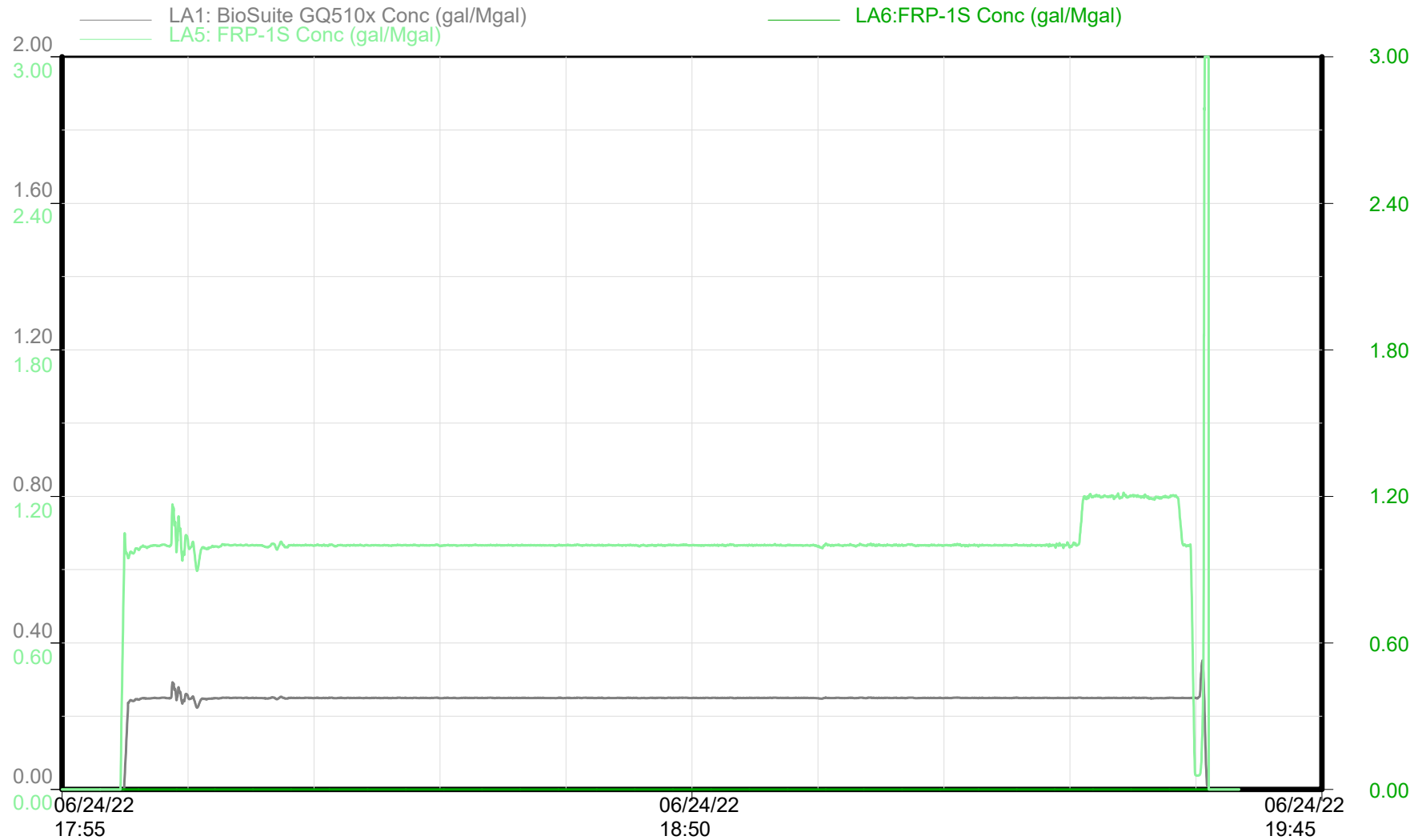
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 36 of 60



Chemical Additives

Time

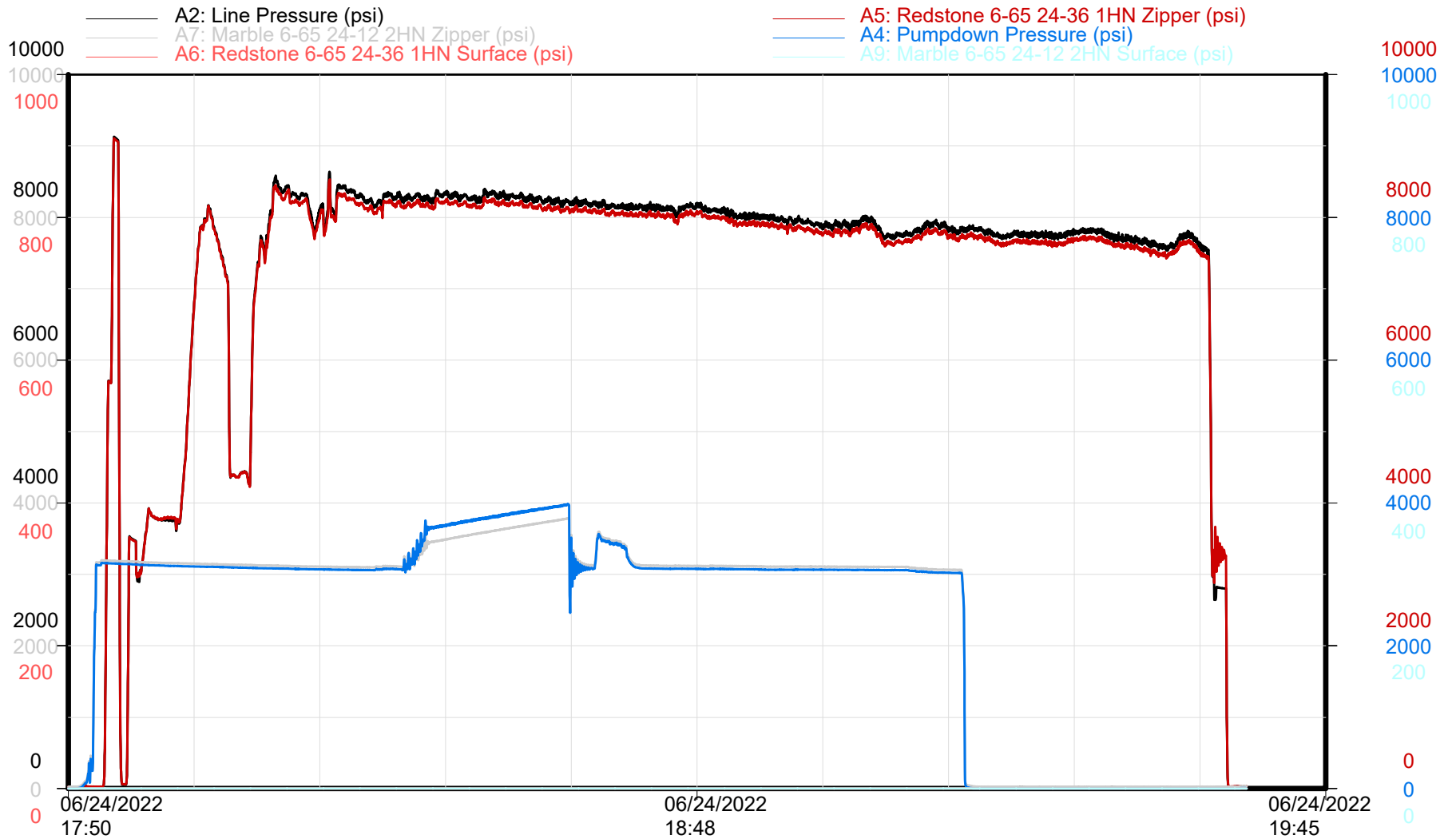
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 36



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 36 of 60



Zipper Pressures

Time

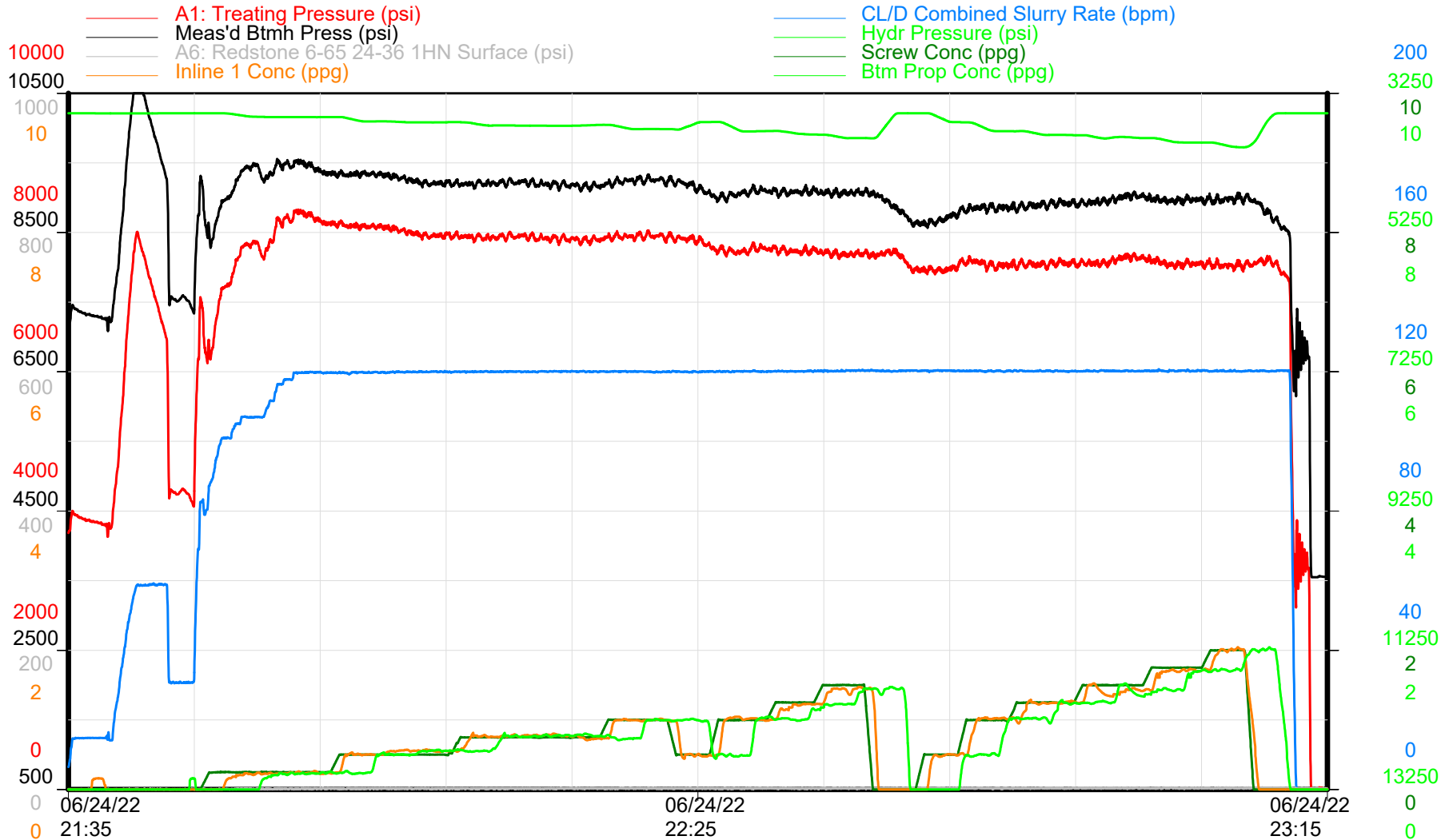
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 37



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 37 of 60



Treatment Plot

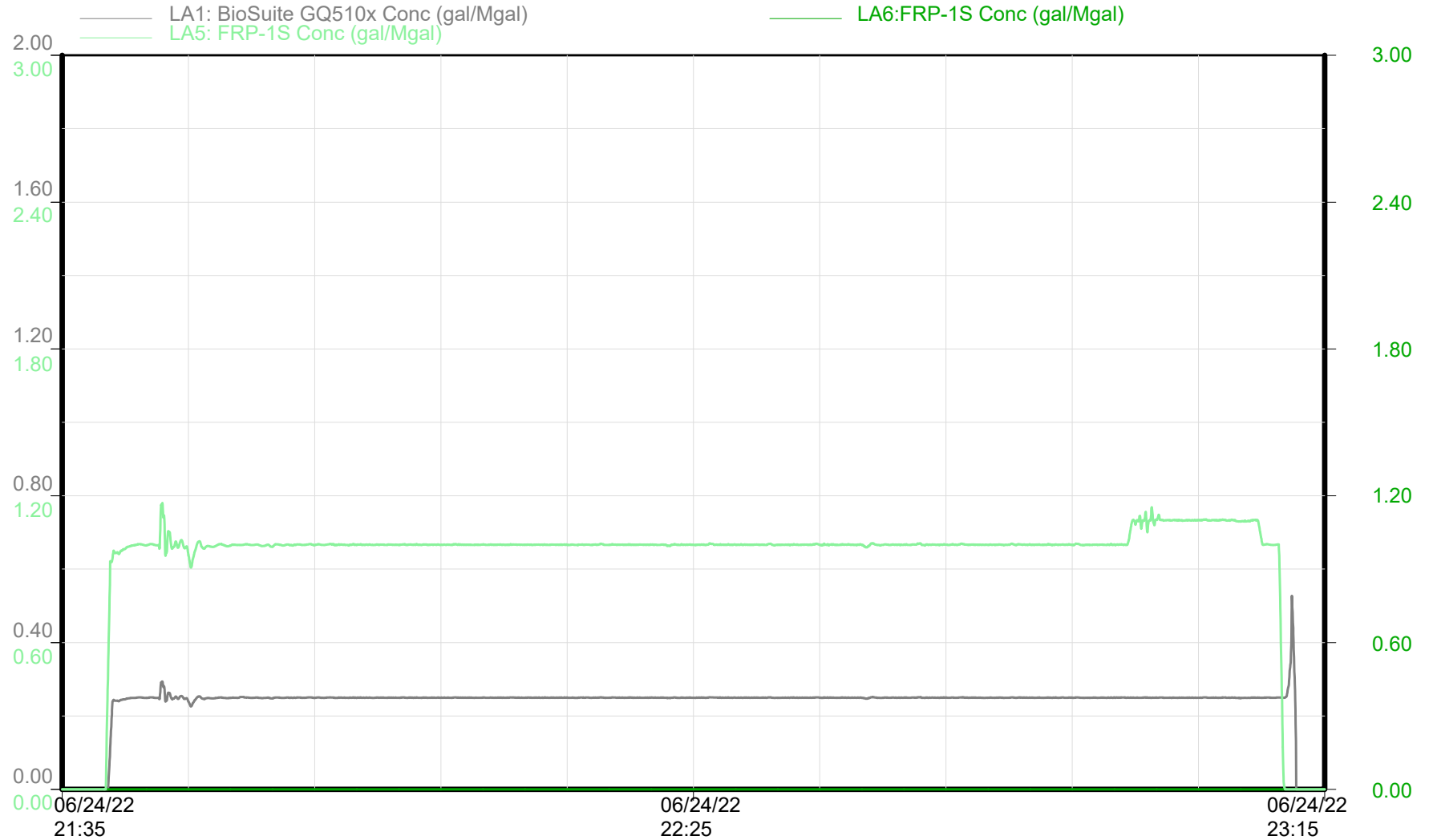
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 37 of 60



Chemical Additives

Time

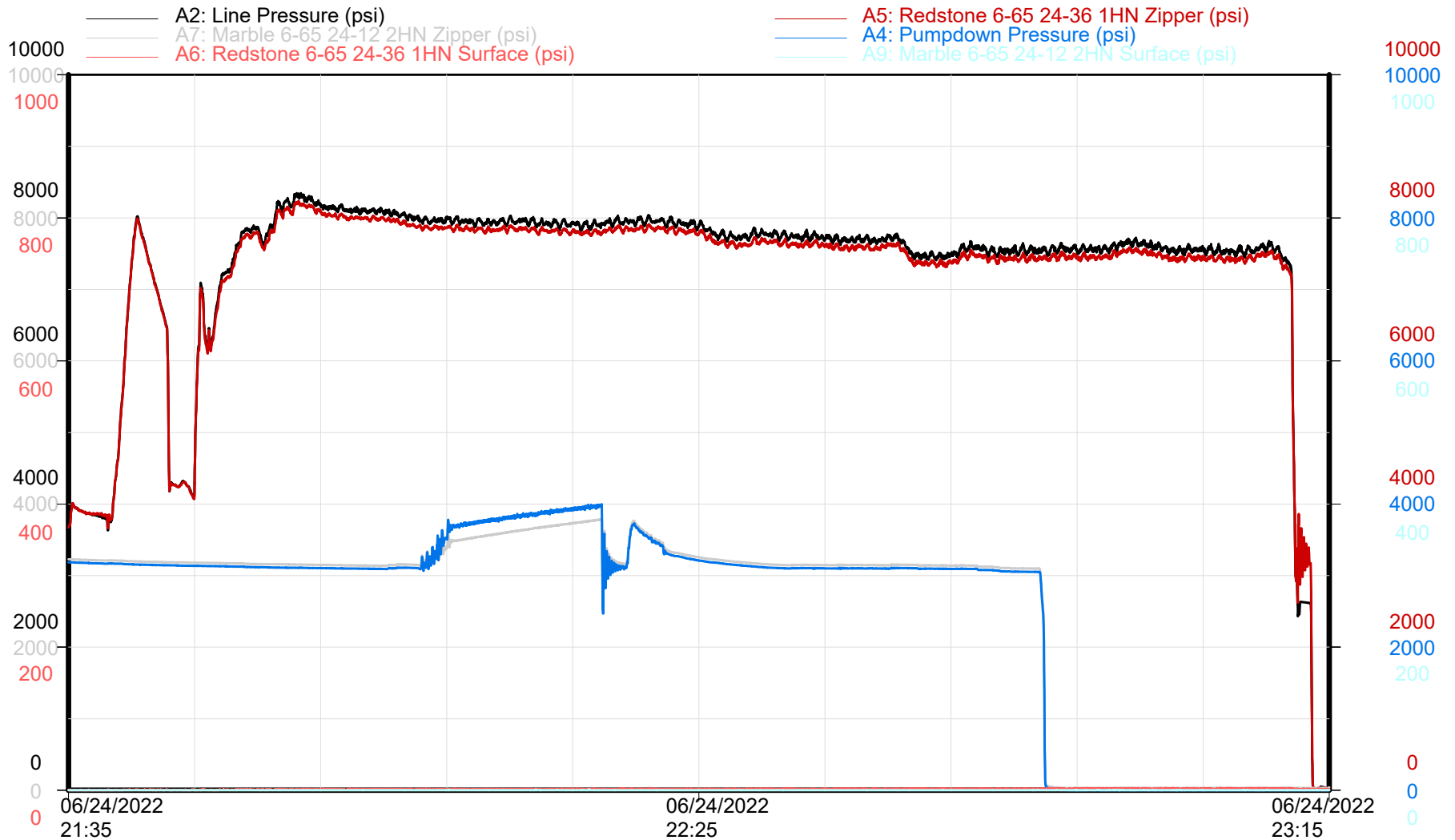
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 37



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 37 of 60



Zipper Pressures

Time

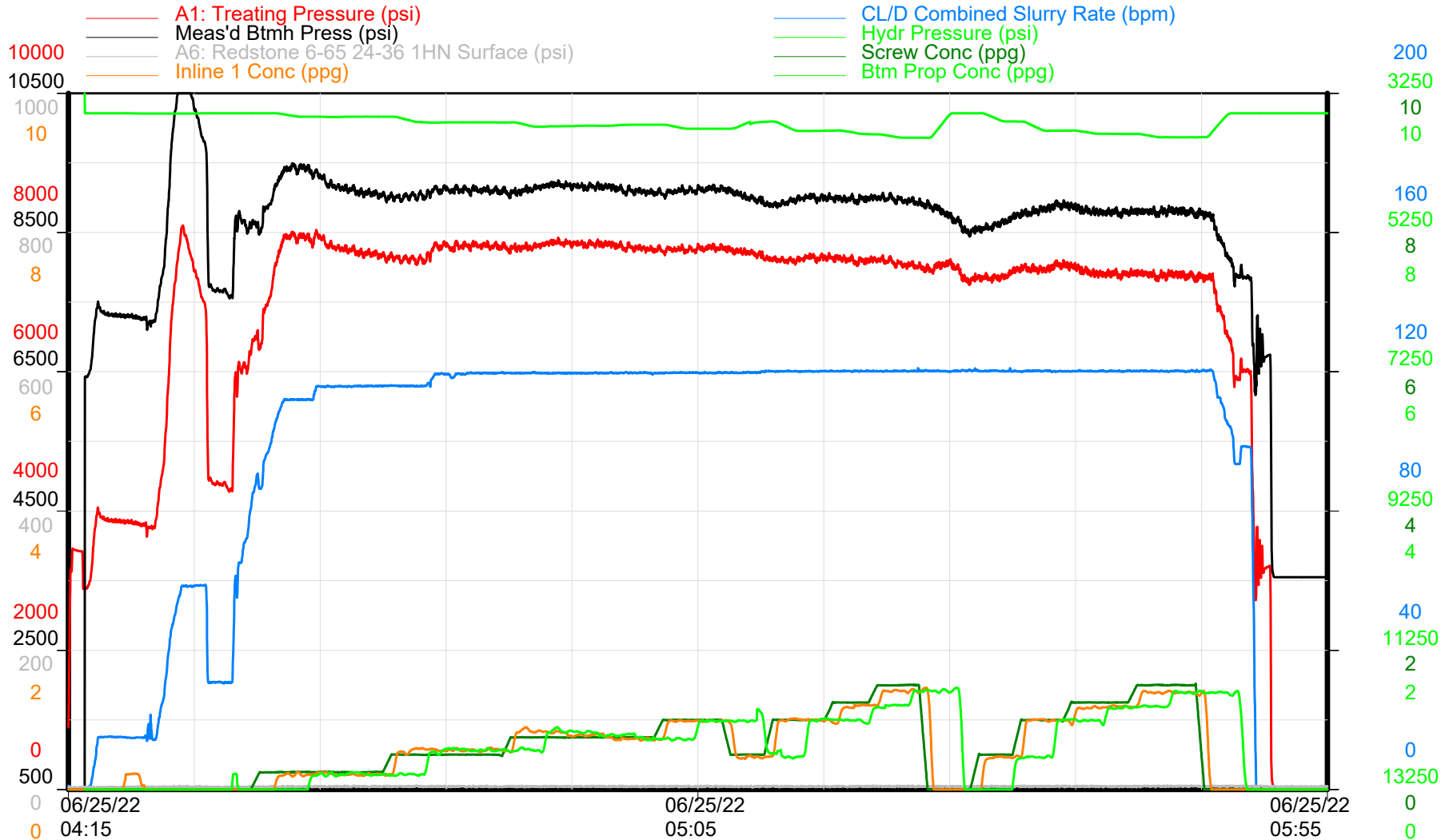
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 38



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 38 of 60



Treatment Plot

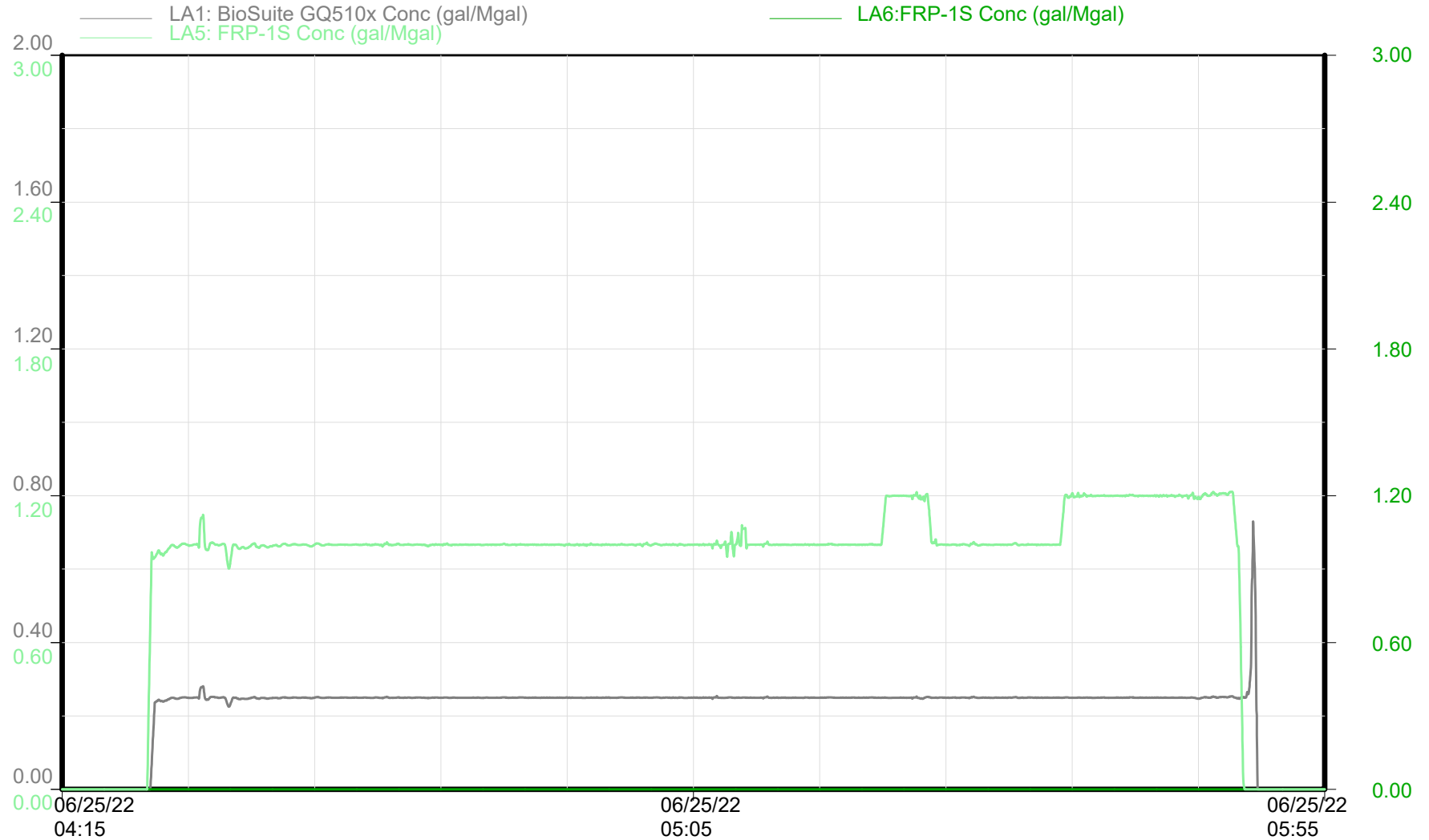
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 38 of 60



Chemical Additives

Time

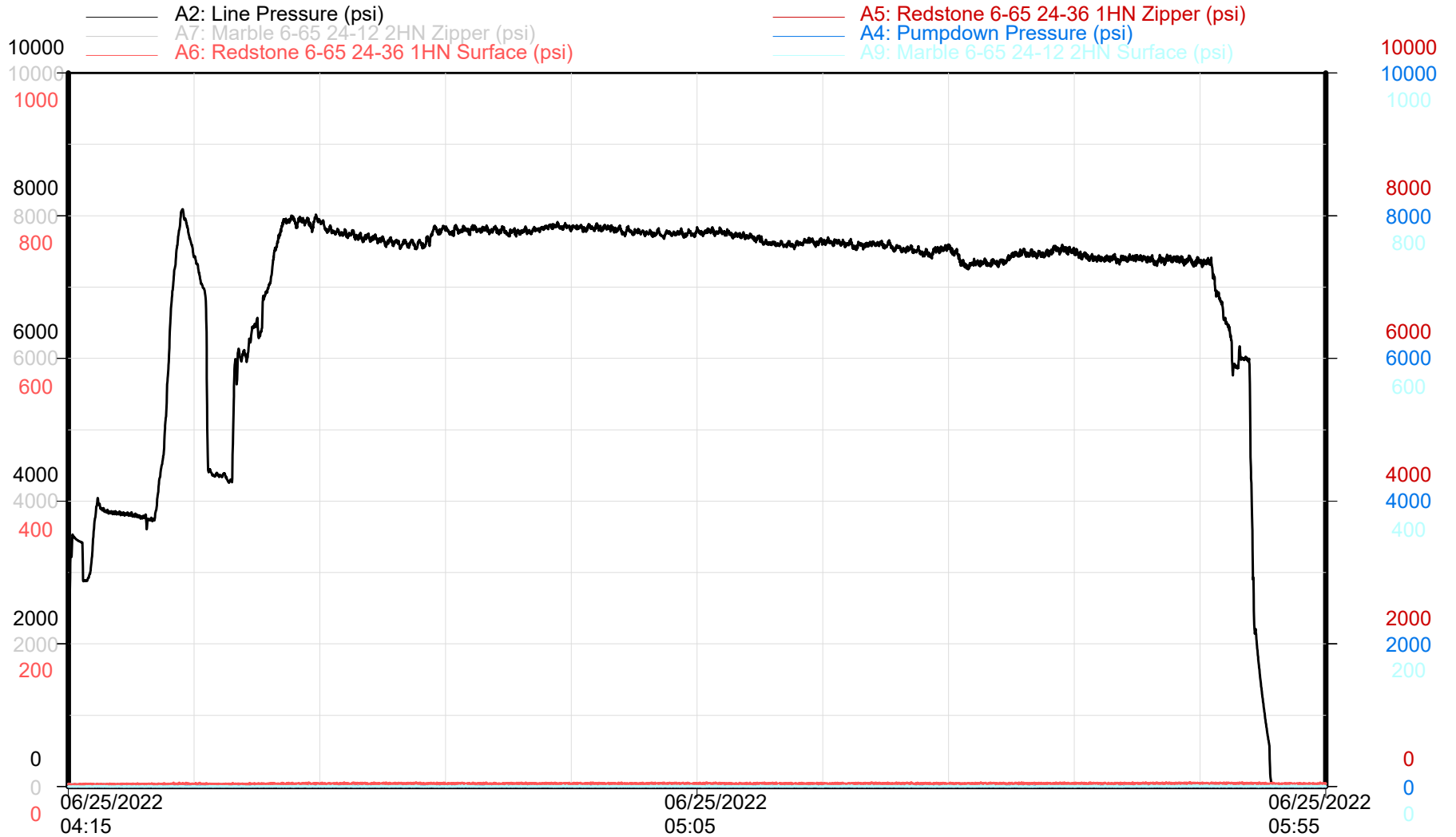
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 38



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 38 of 60



Zipper Pressures

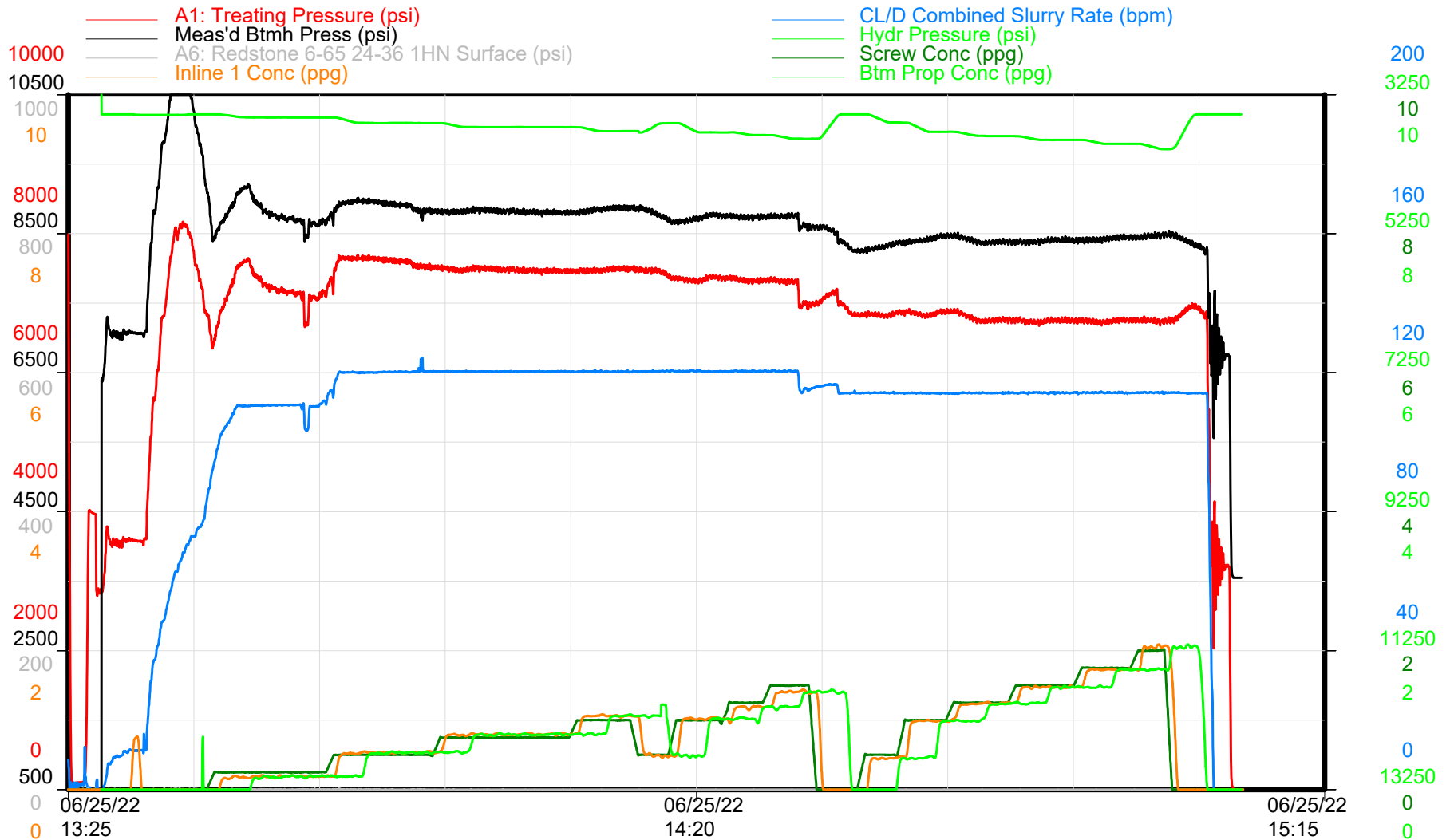
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 39

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 39 of 60



Treatment Plot

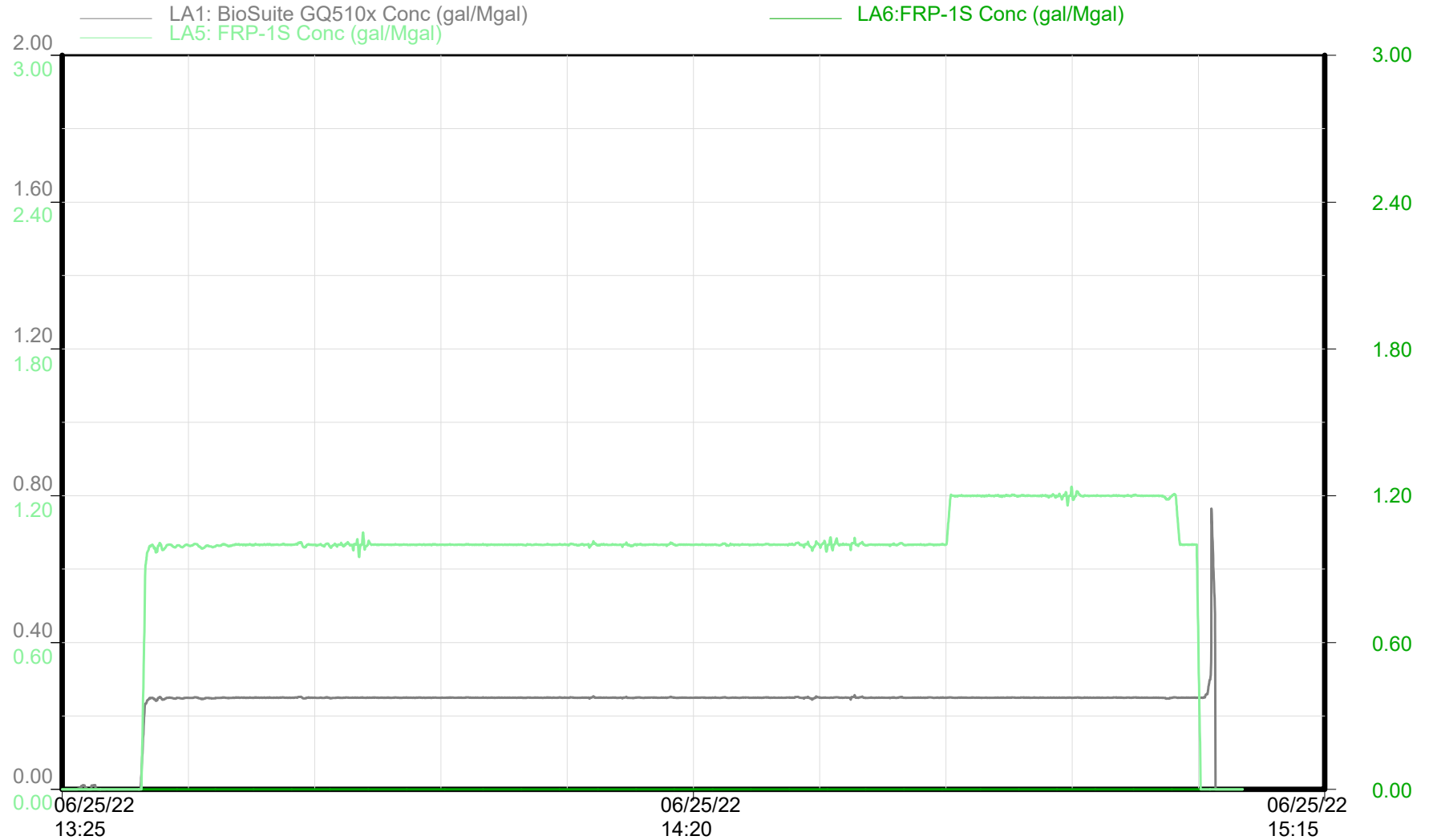
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 39 of 60



Chemical Additives

Time

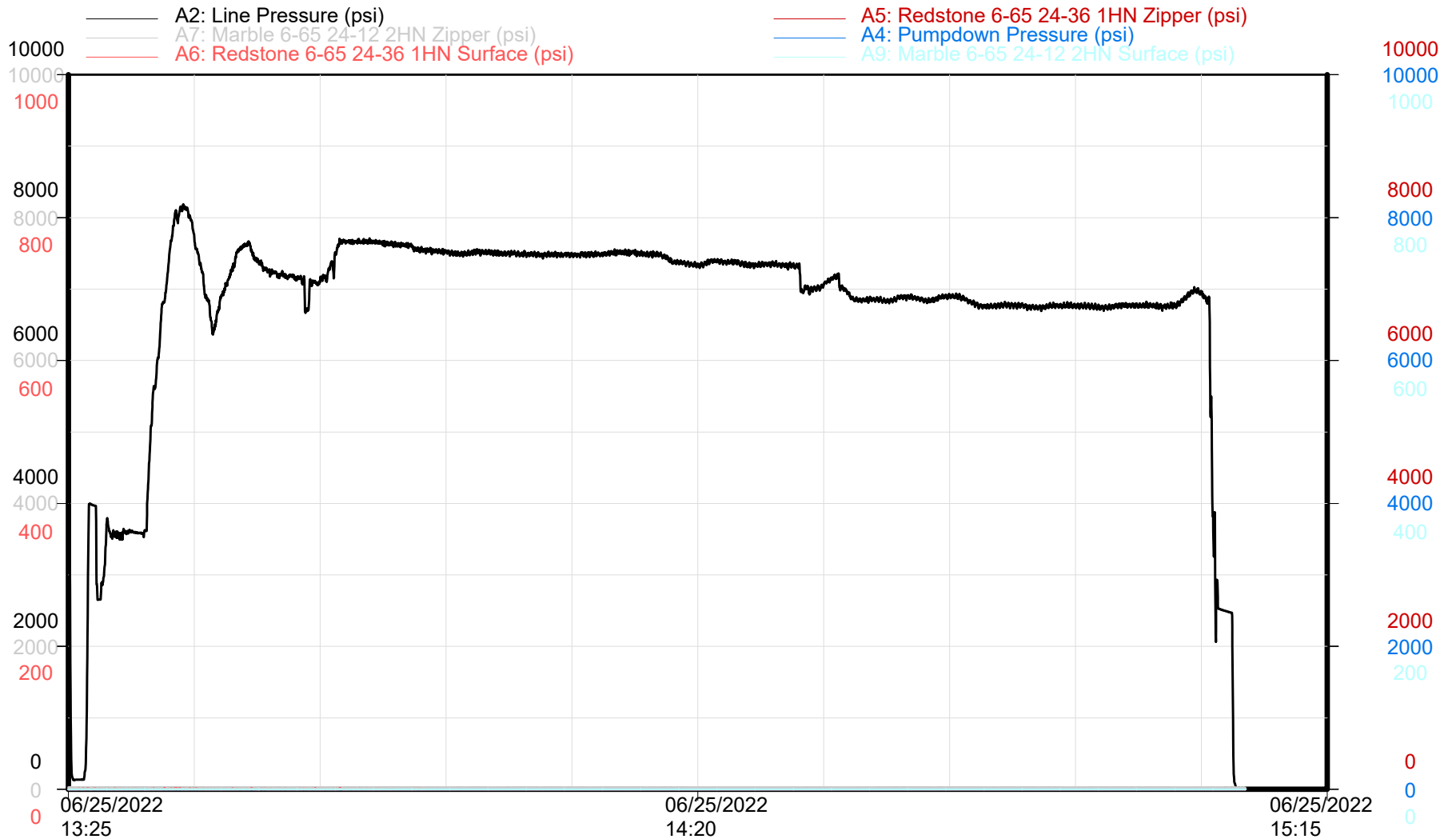
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 39



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 39 of 60



Zipper Pressures

Time

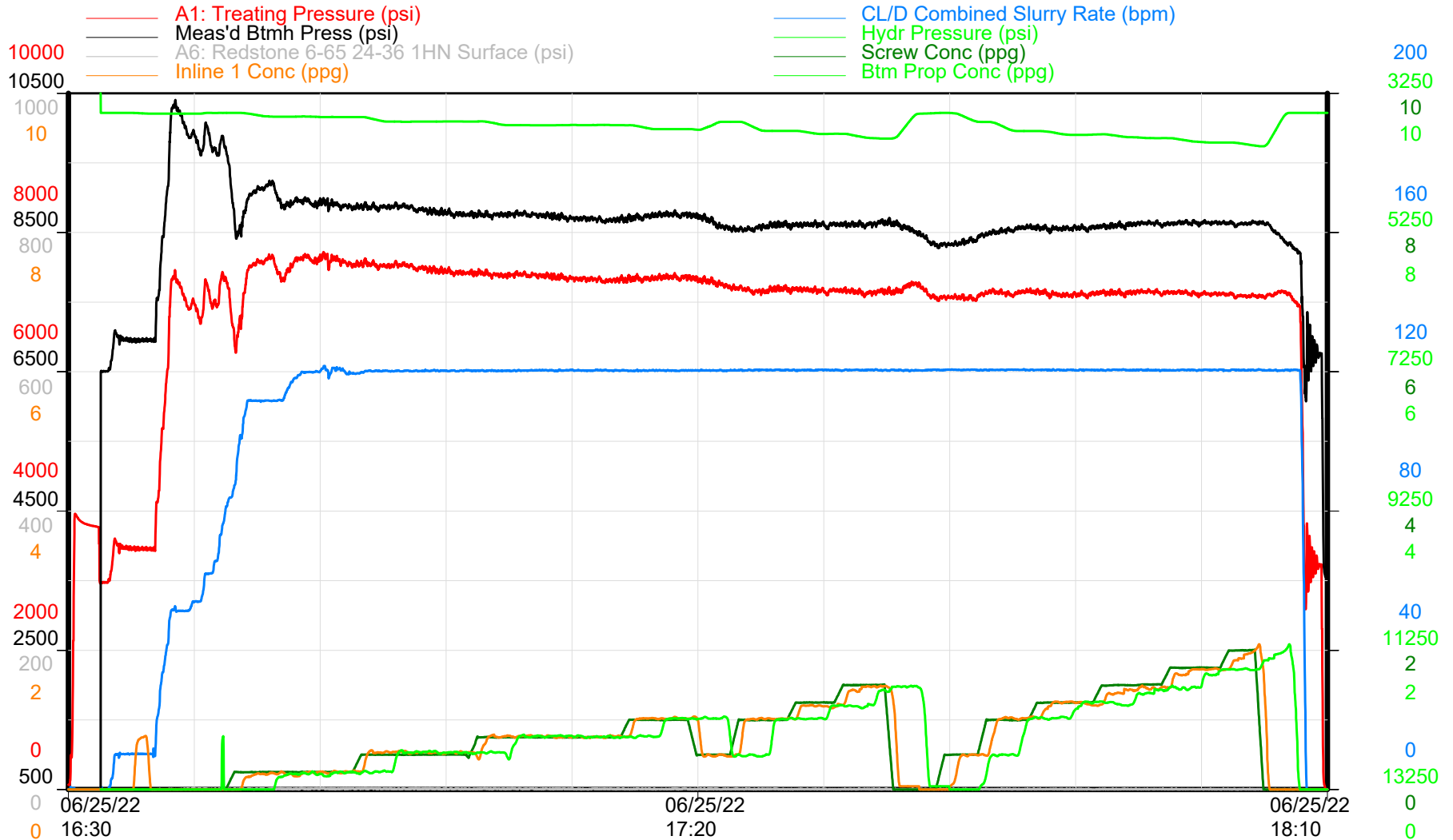
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 40



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 40 of 60



Treatment Plot

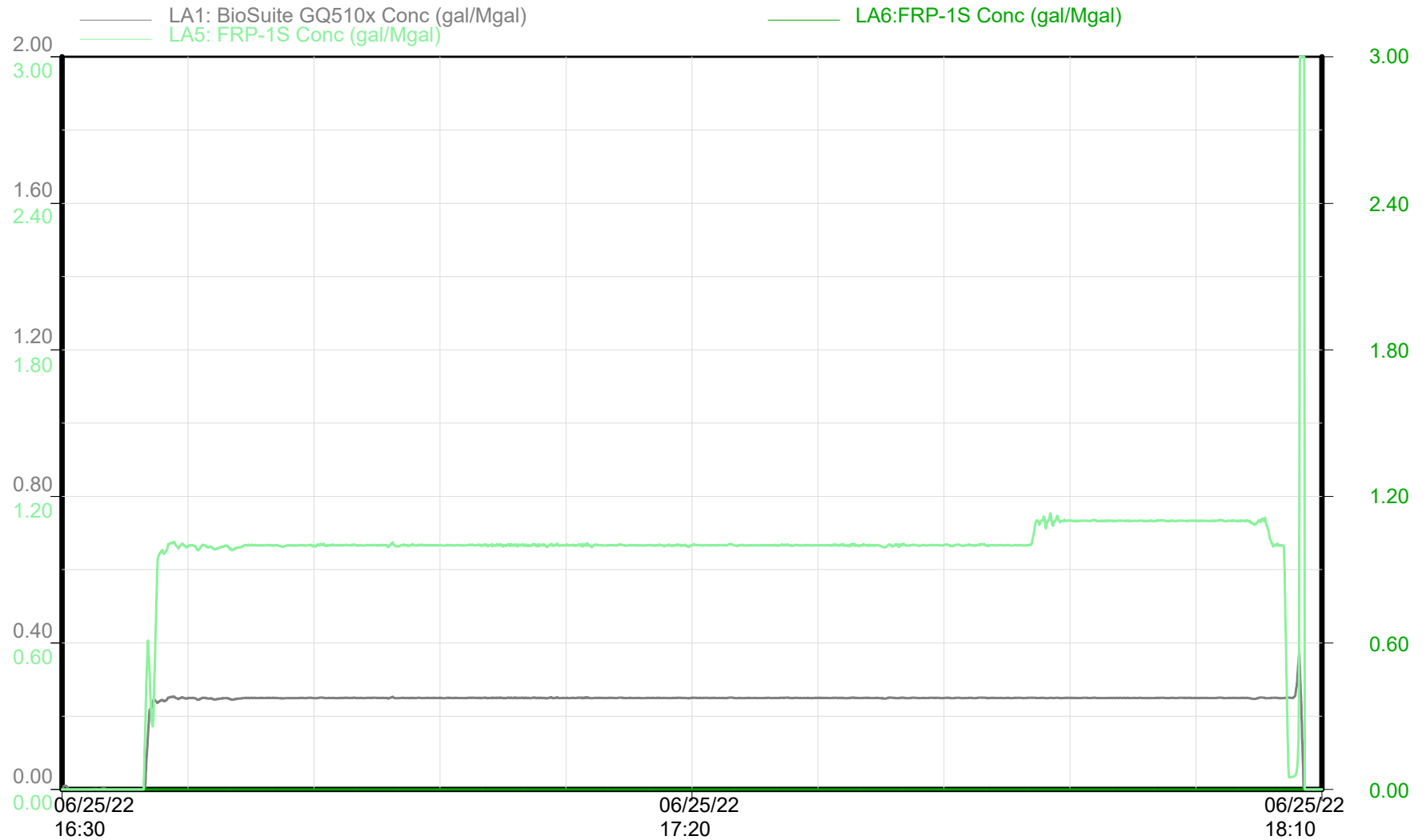
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 40 of 60



Chemical Additives

Time

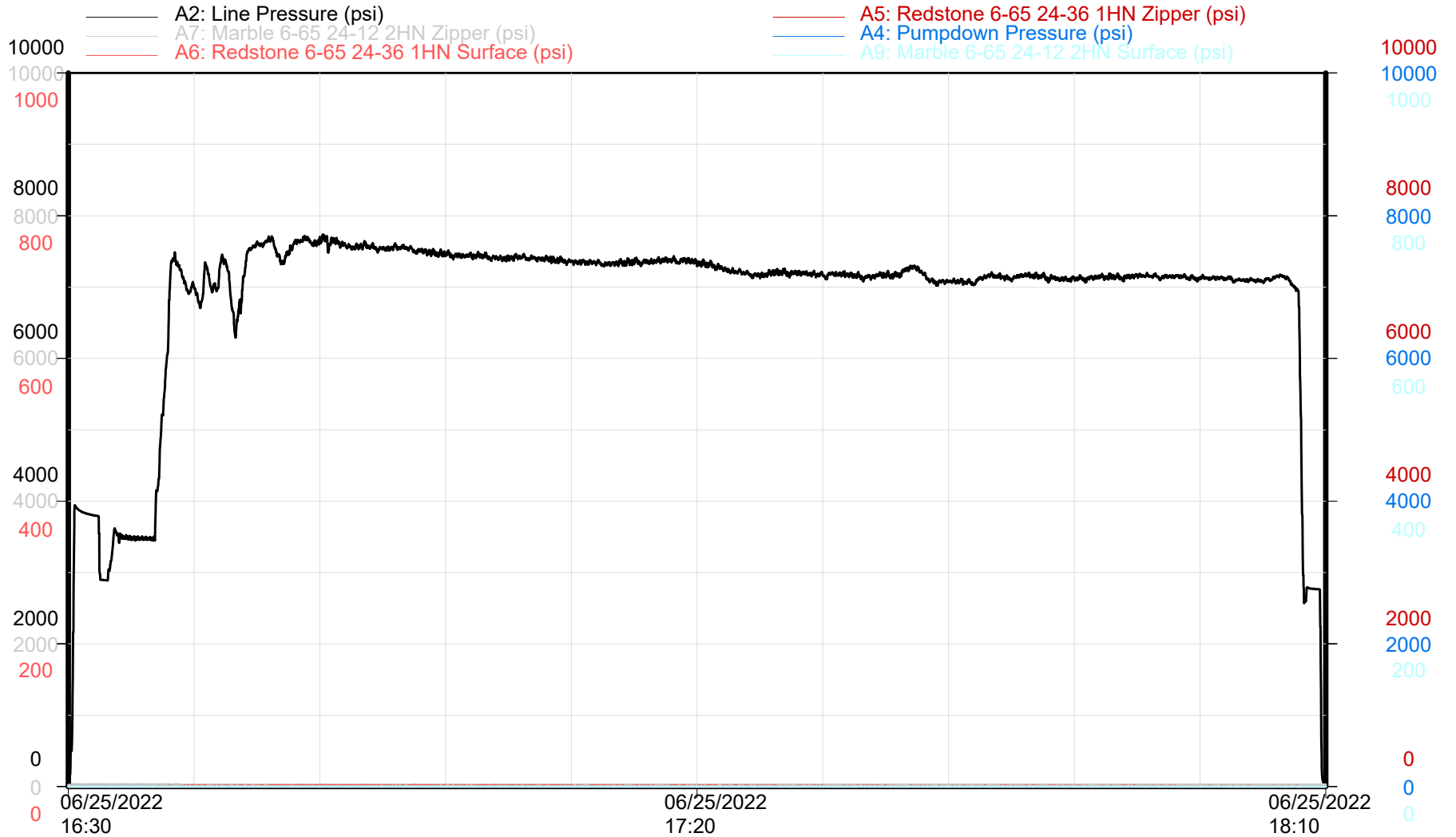
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 40



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 40 of 60



Zipper Pressures

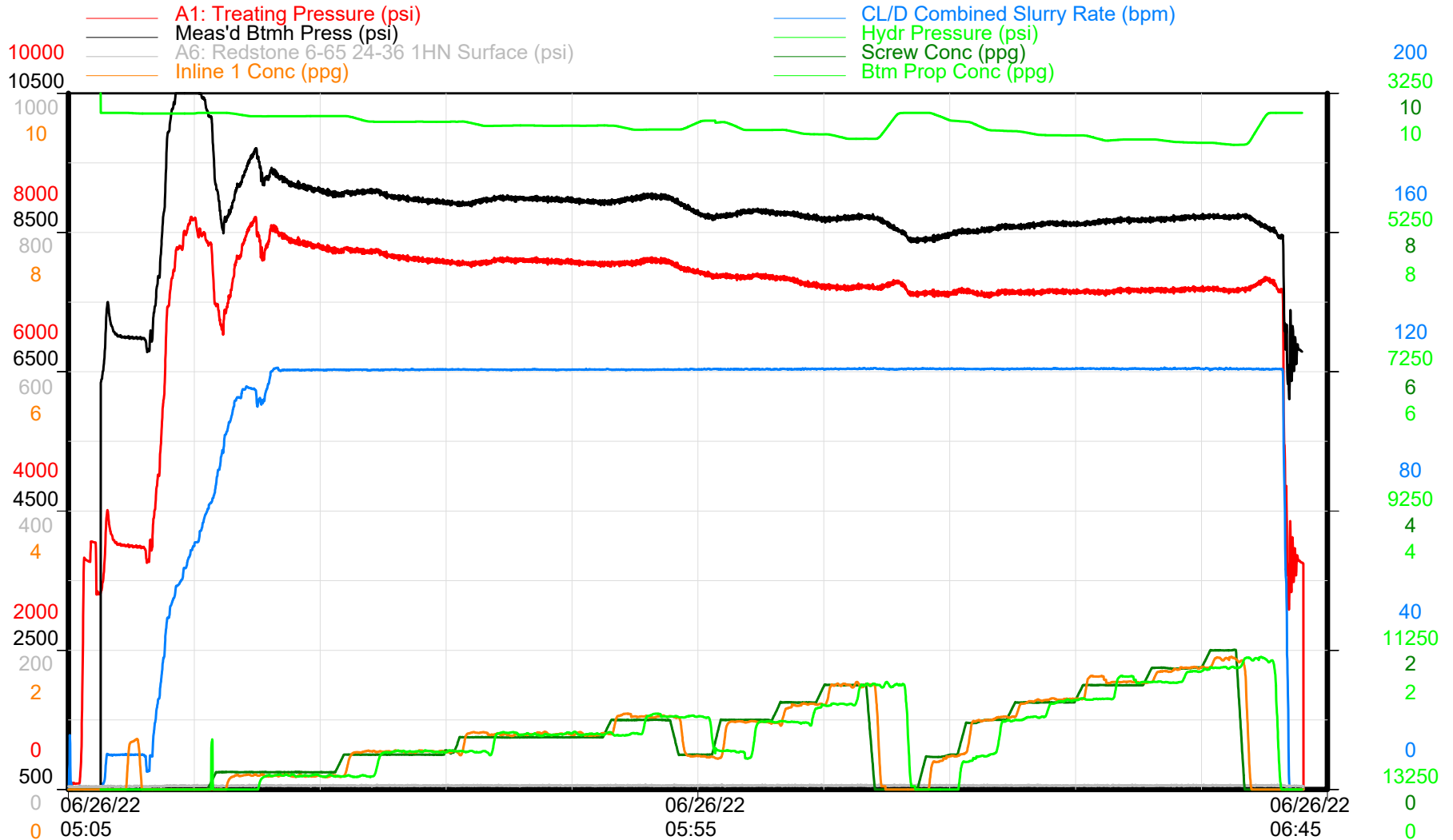
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 41

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 41 of 60



Treatment Plot

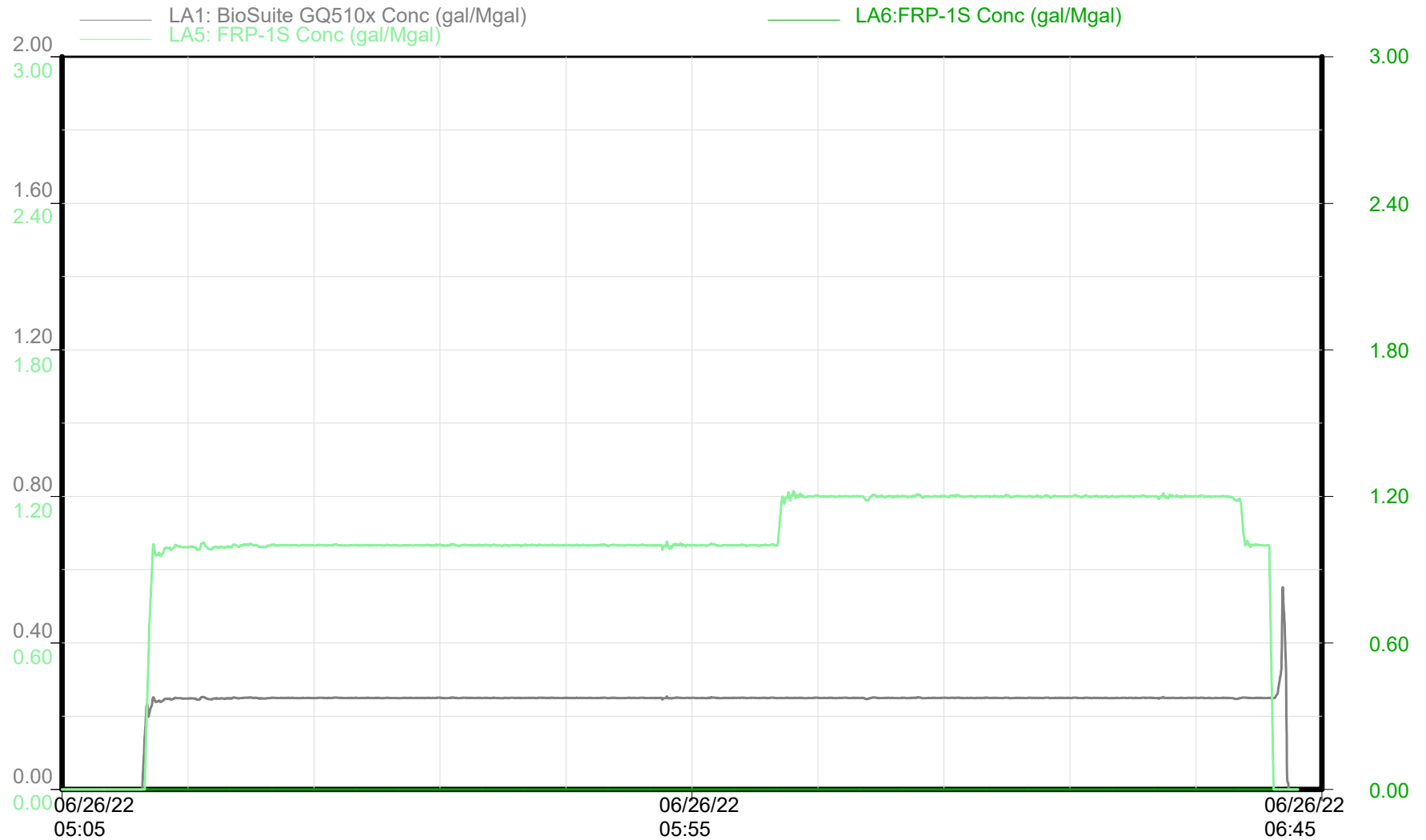
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 41 of 60



Chemical Additives

Time

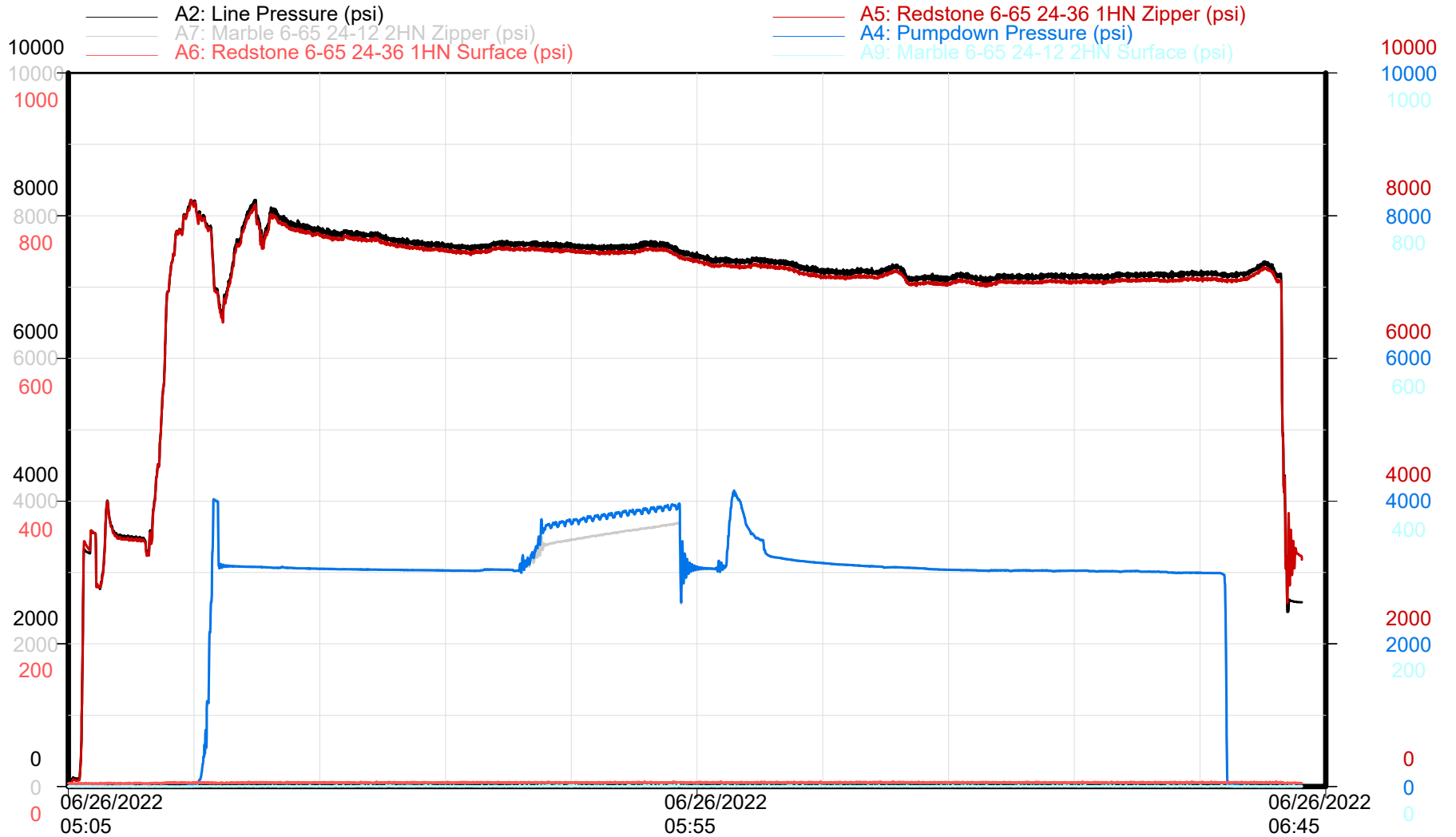
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 41



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 41 of 60



Zipper Pressures

Time

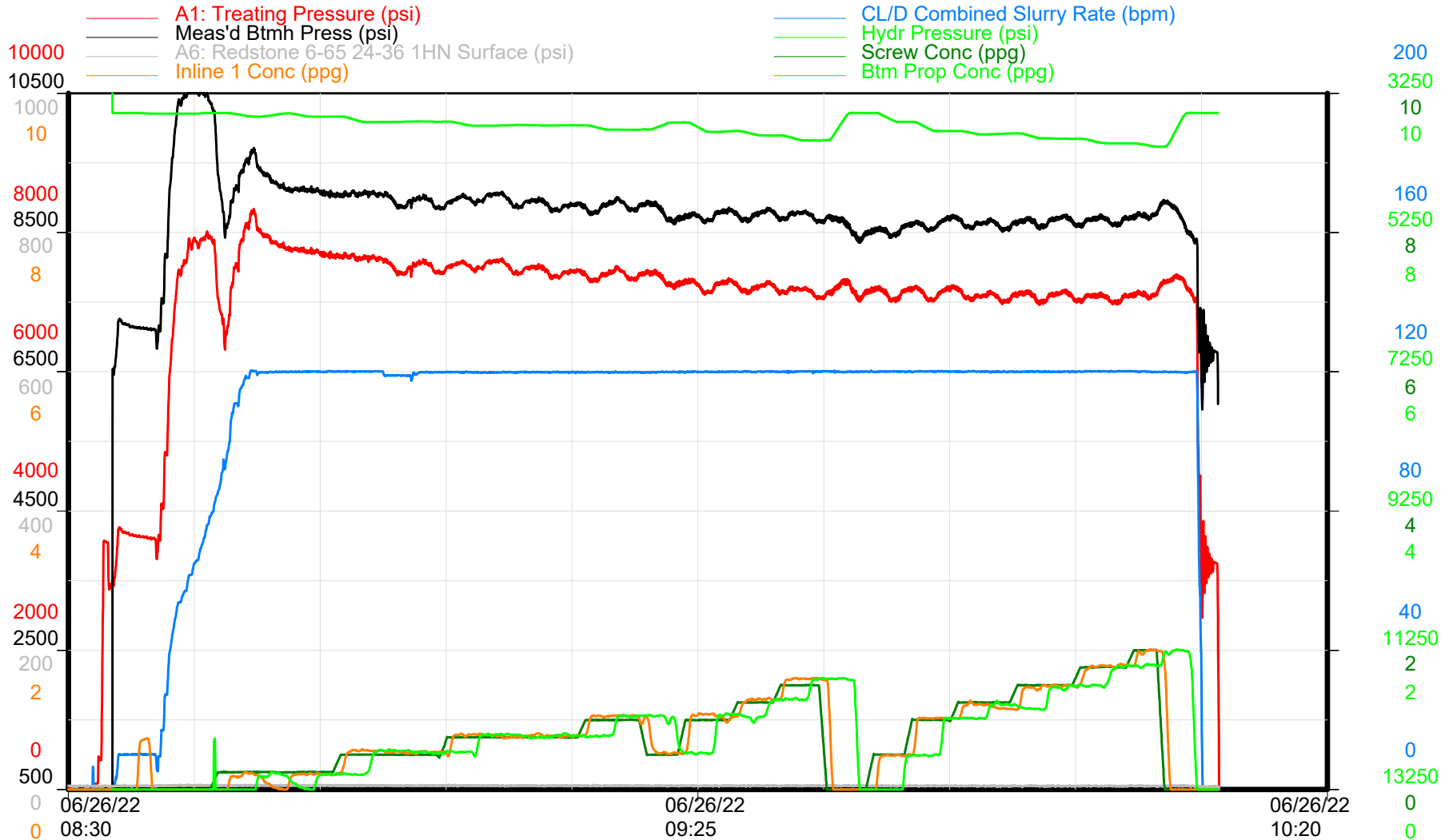
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 42



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 42 of 60



Treatment Plot

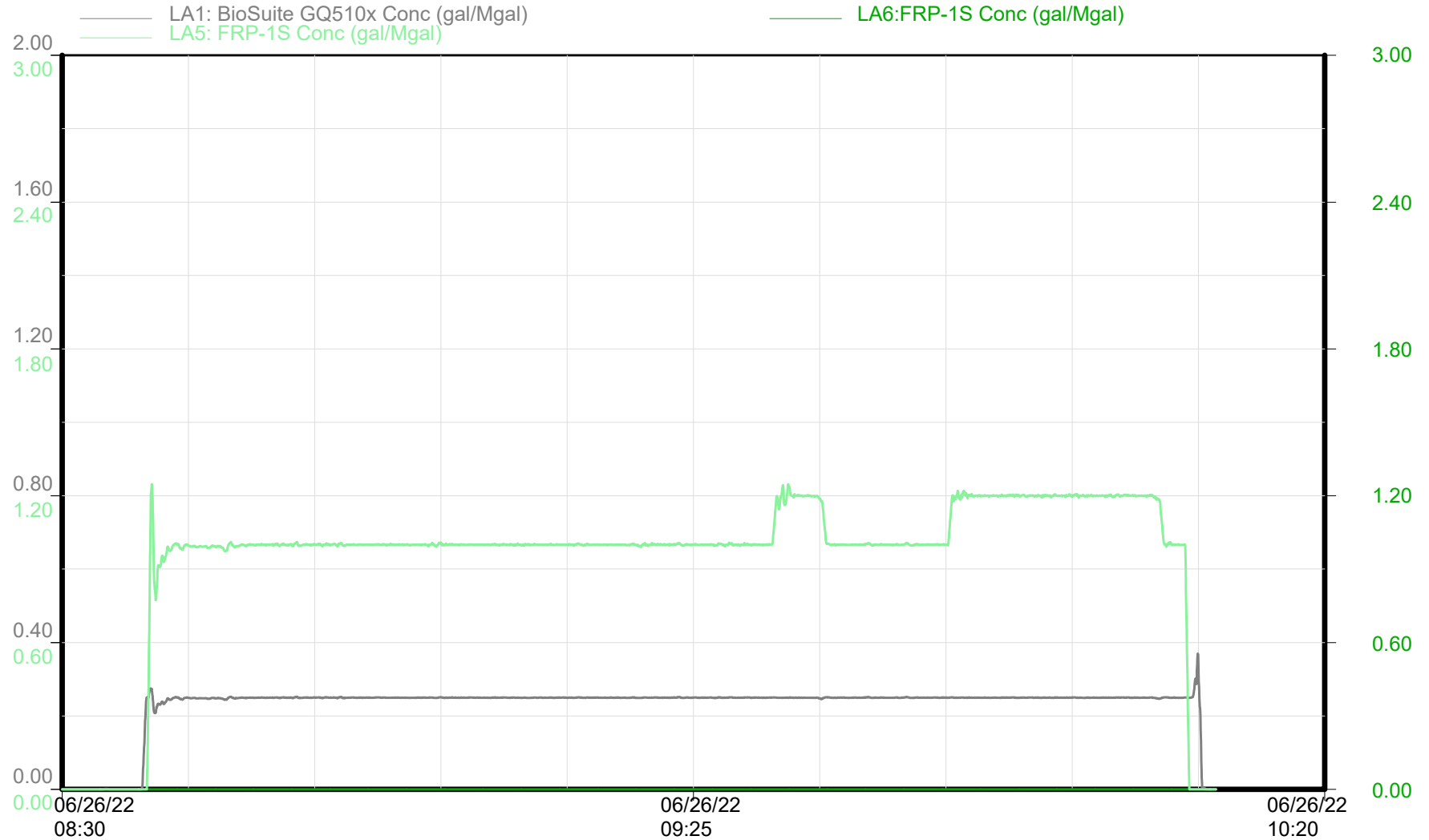
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 42 of 60



Chemical Additives

Time

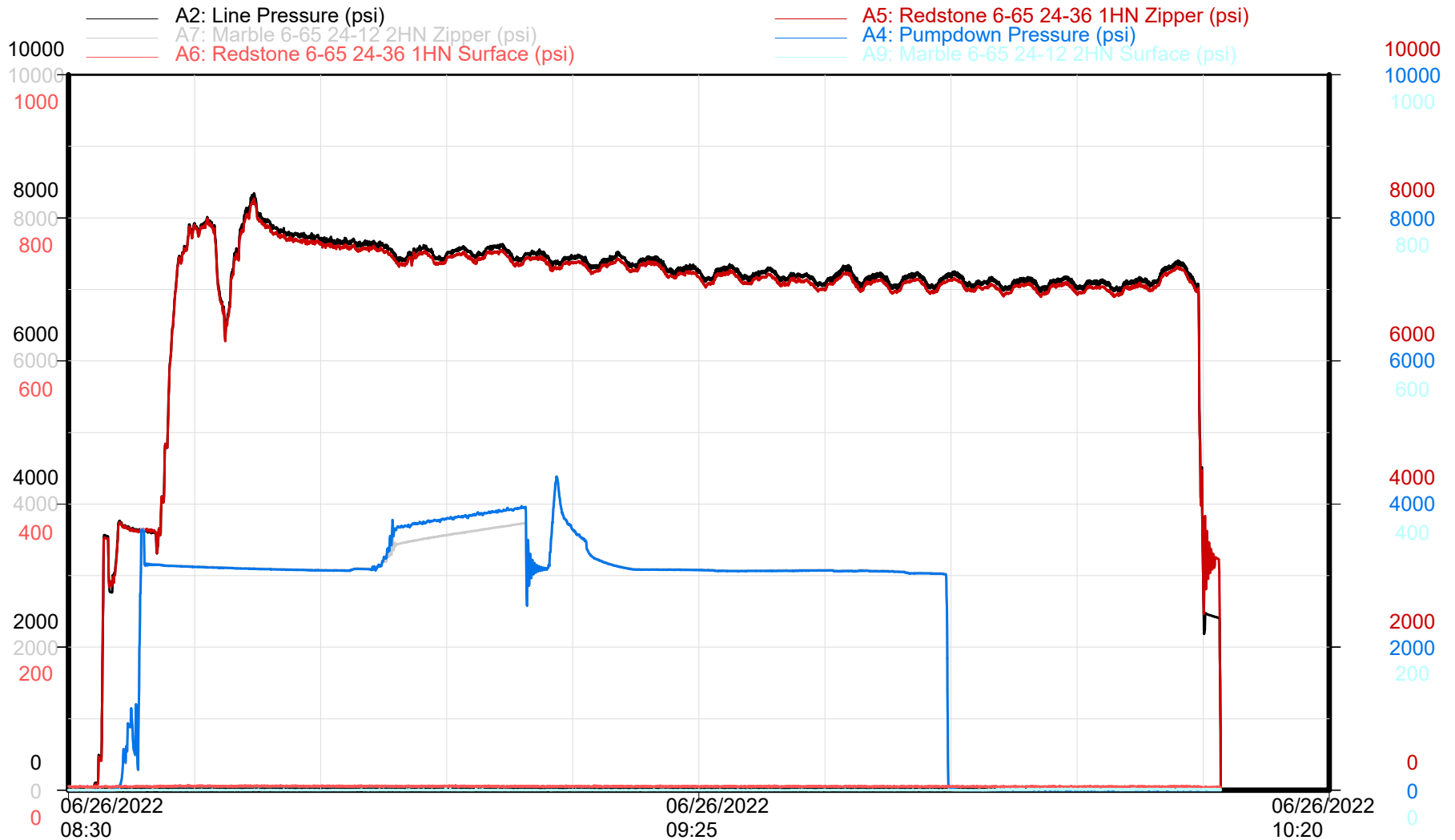
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 42



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 42 of 60



Zipper Pressures

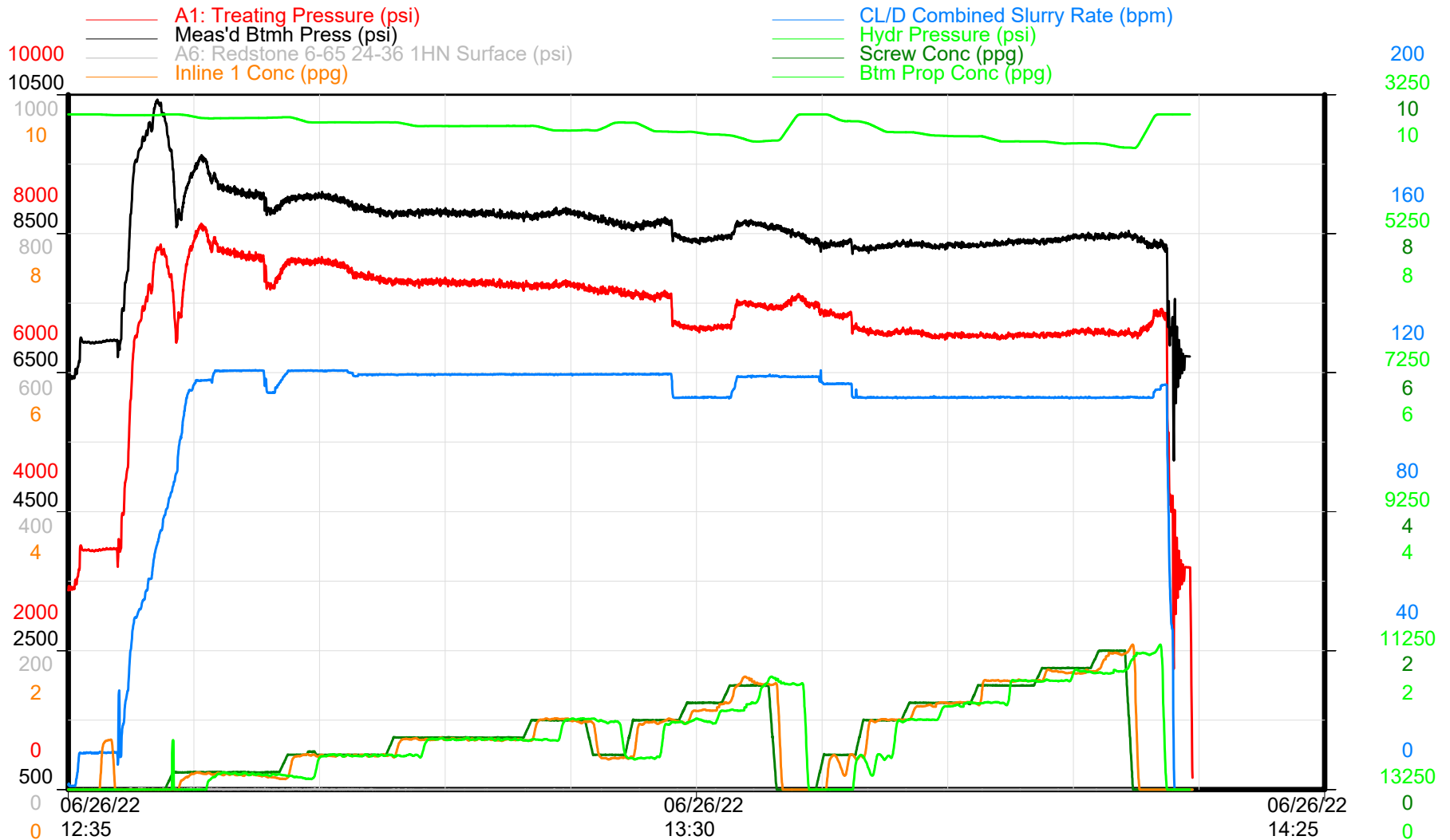
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 43

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 43 of 60



Treatment Plot

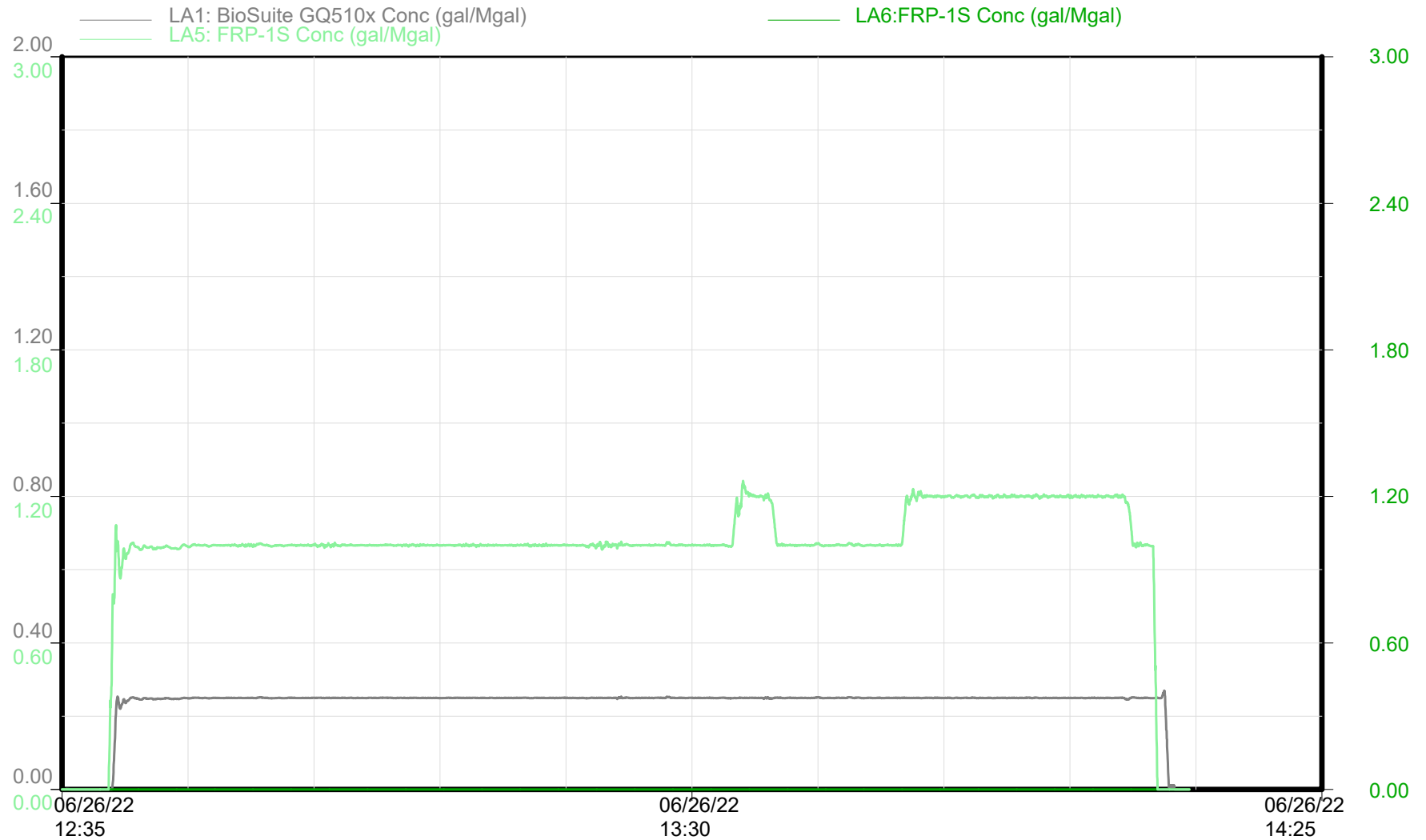
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 43 of 60



Chemical Additives

Time

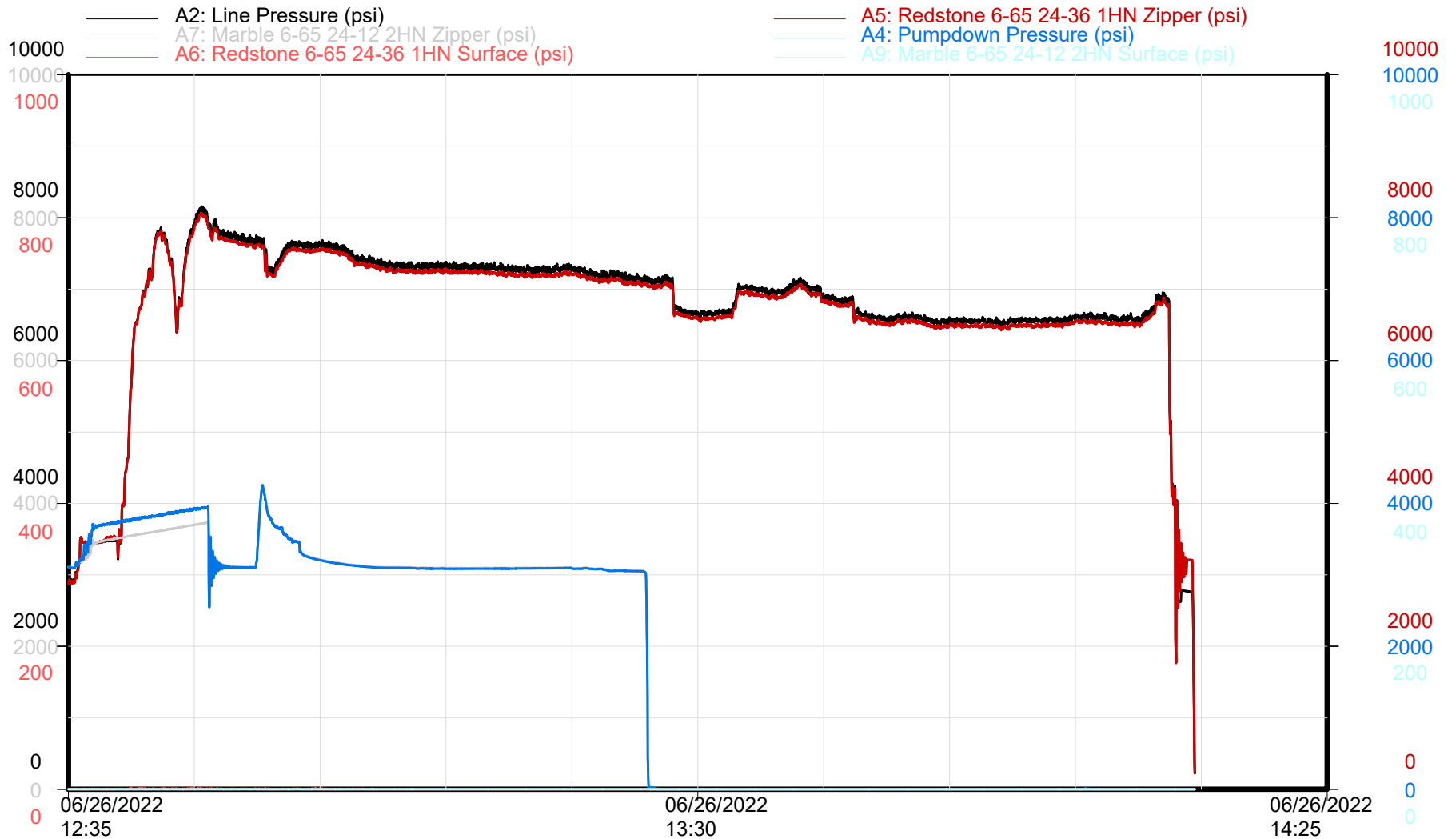
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 43



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 43 of 60



Zipper Pressures

Time

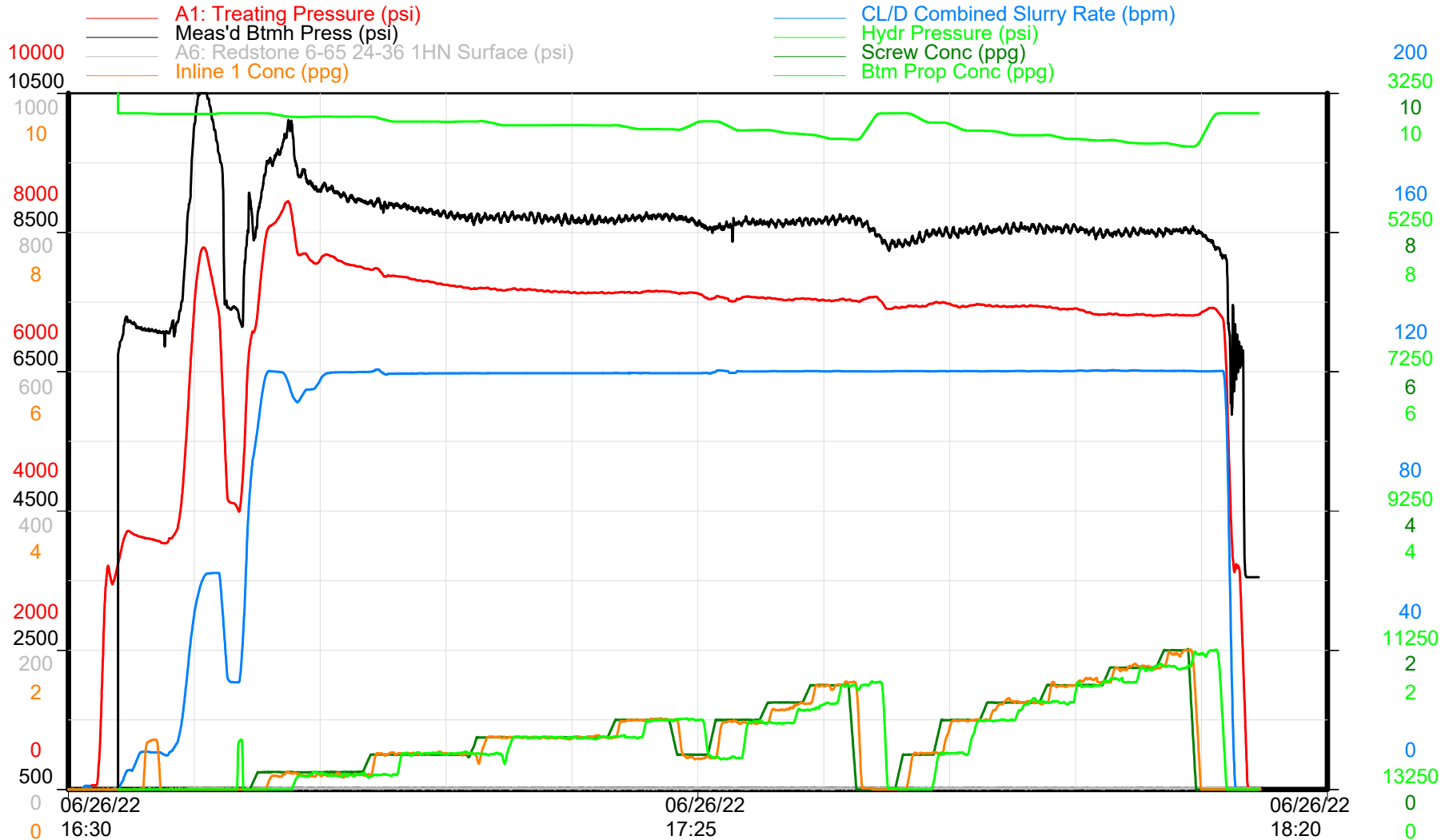
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 44



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 44 of 60



Treatment Plot

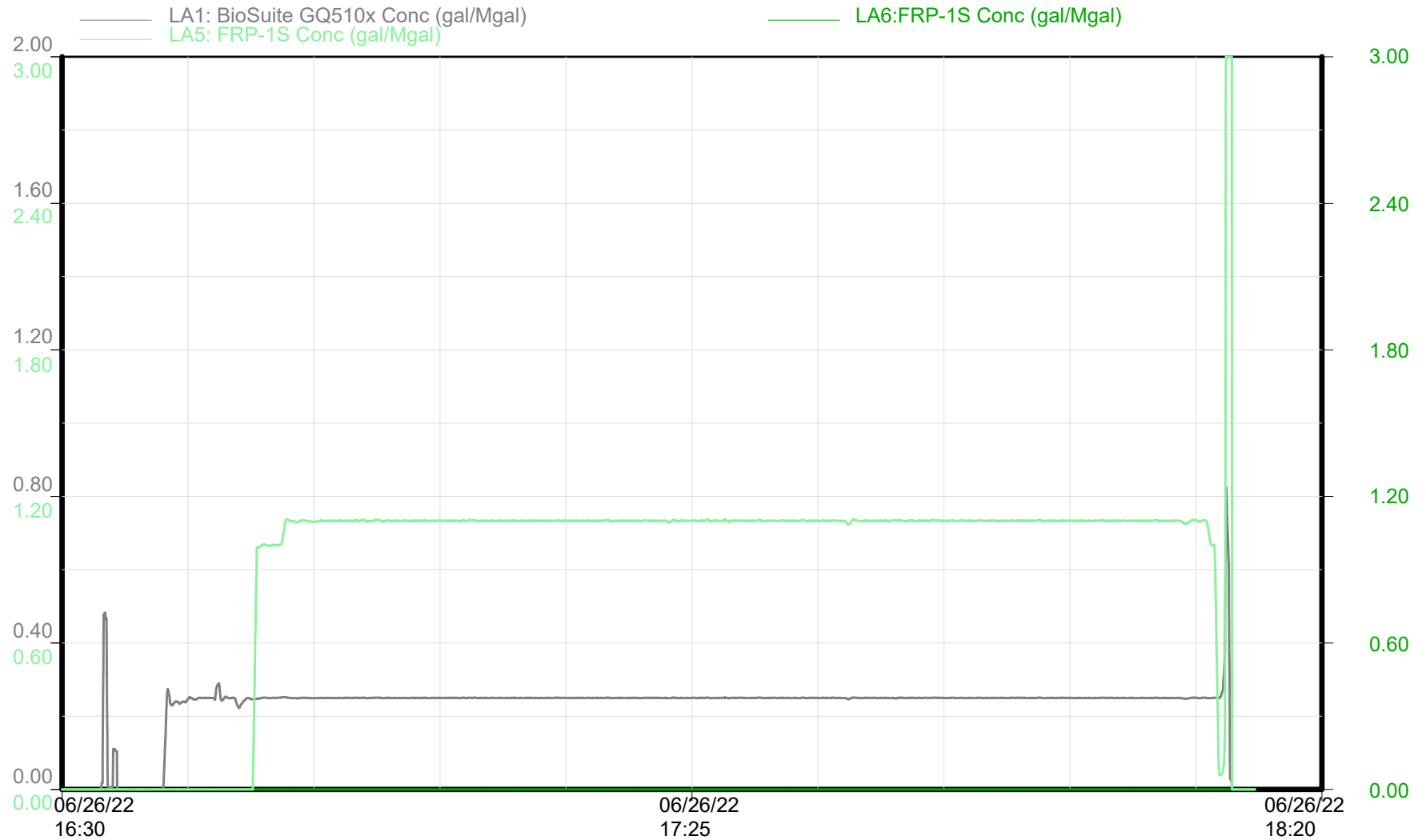
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 44 of 60



Chemical Additives

Time

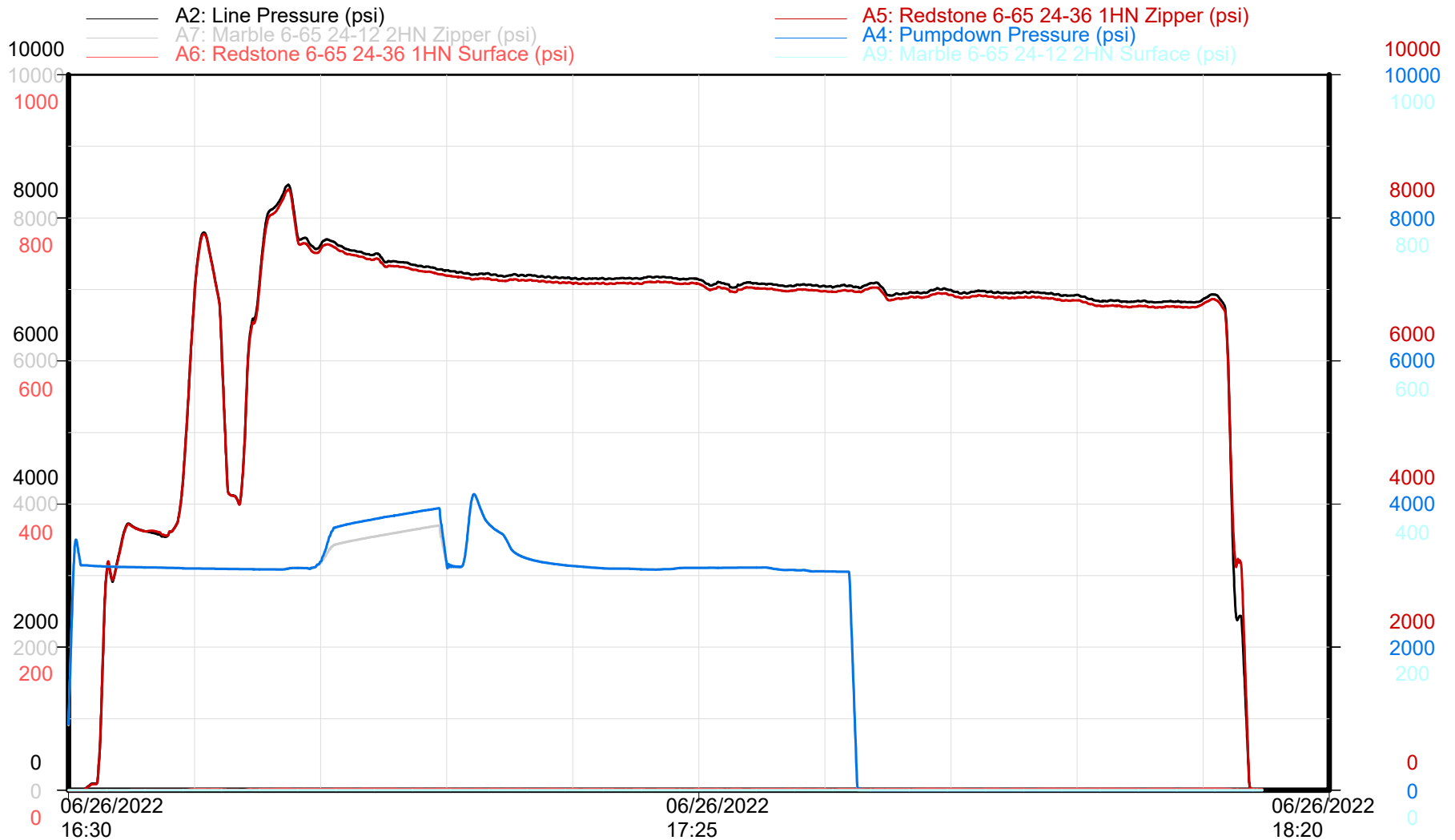
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 44



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 44 of 60



Zipper Pressures

Time

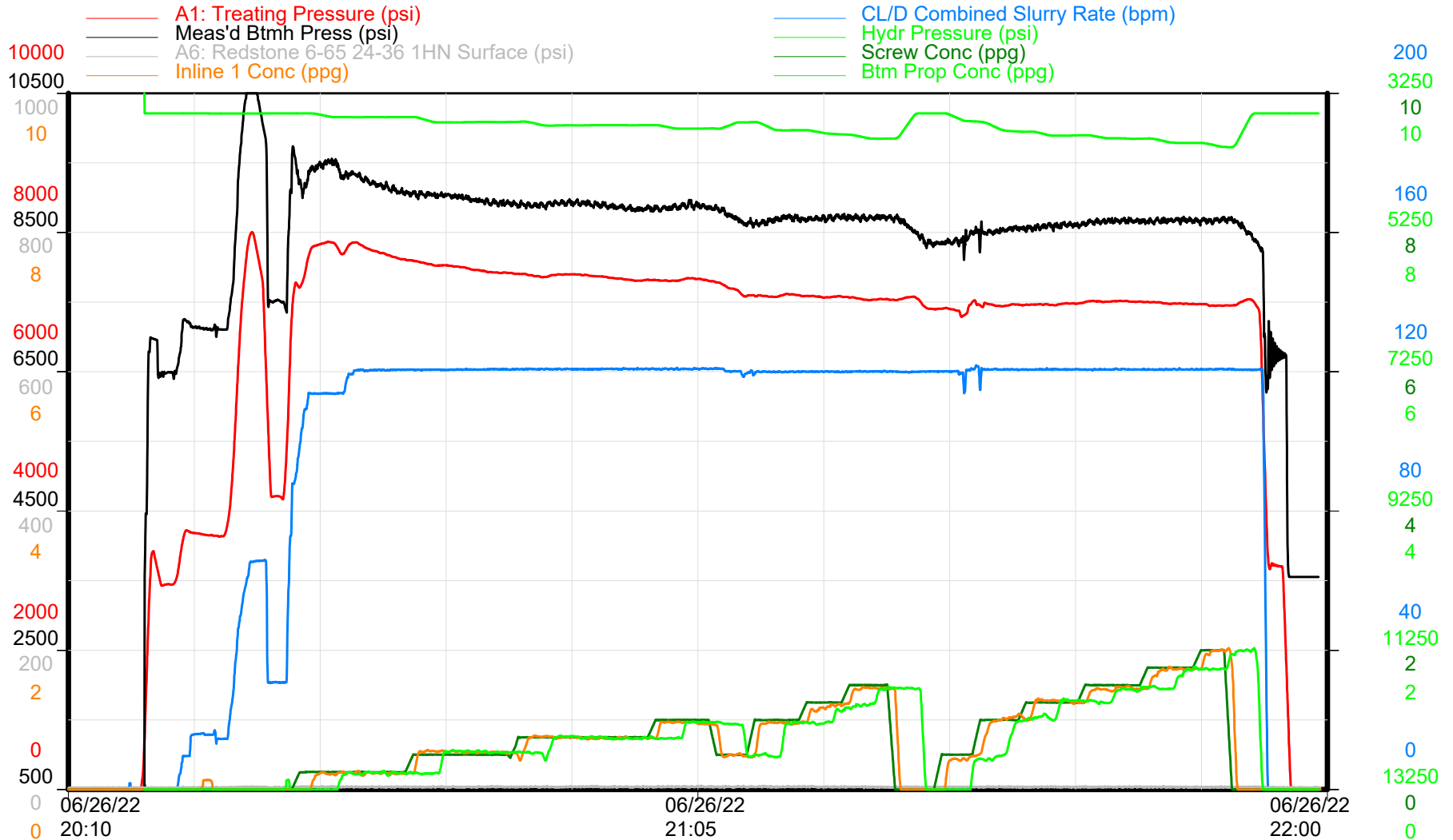
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 45



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 45 of 60



Treatment Plot

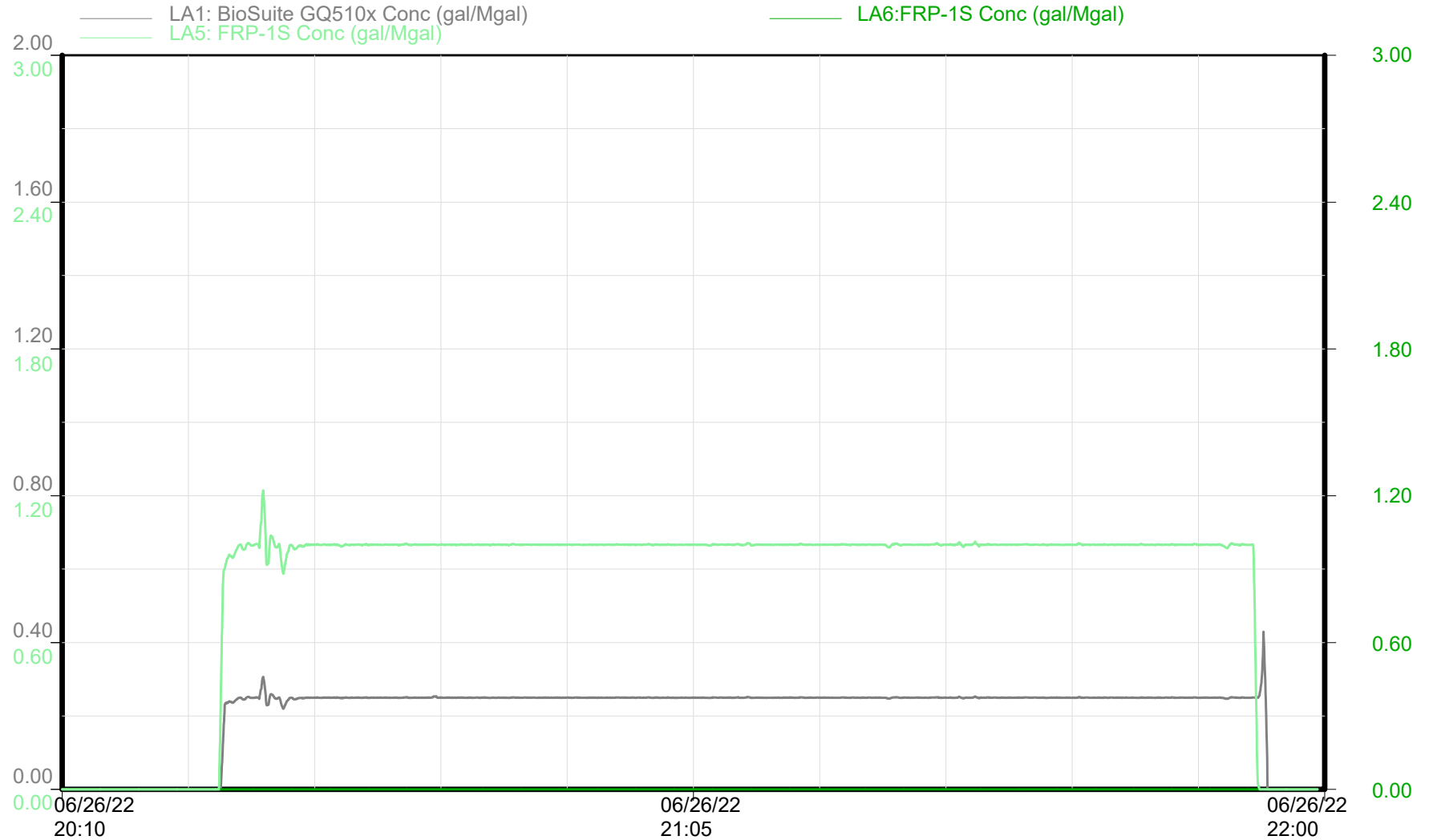
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 45 of 60



Chemical Additives

Time

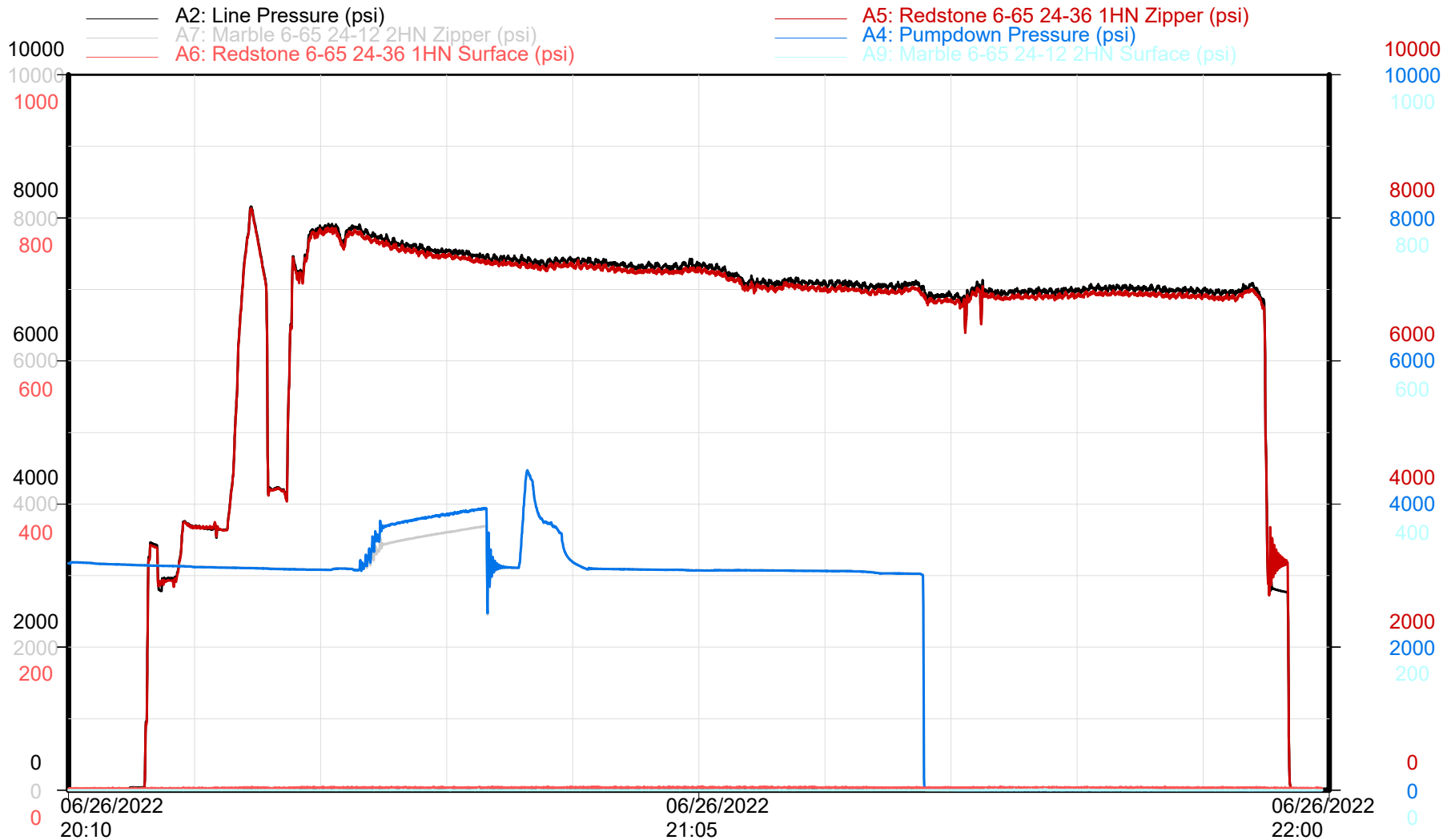
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 45



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 45 of 60



Zipper Pressures

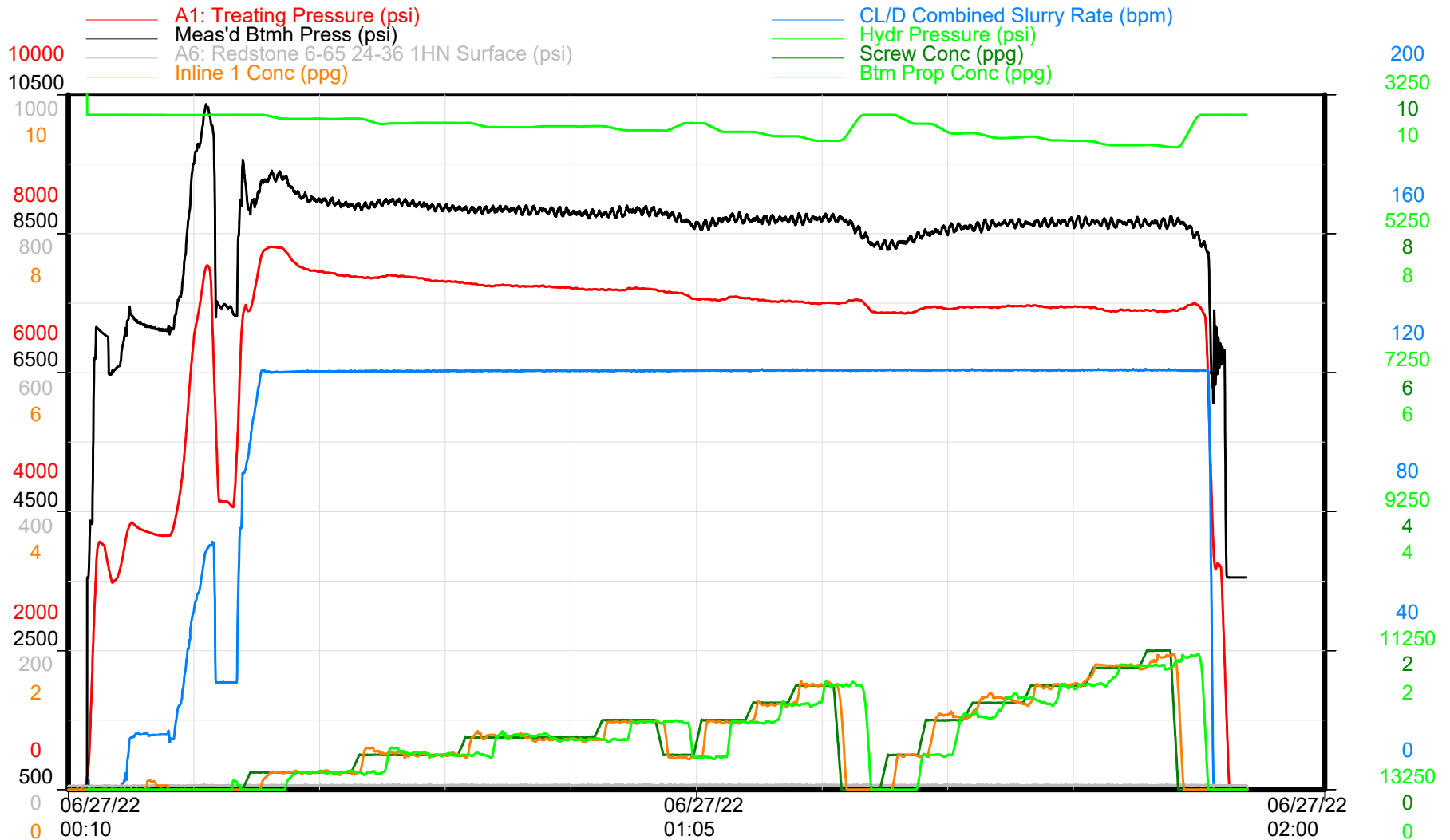
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 46

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 46 of 60



Treatment Plot

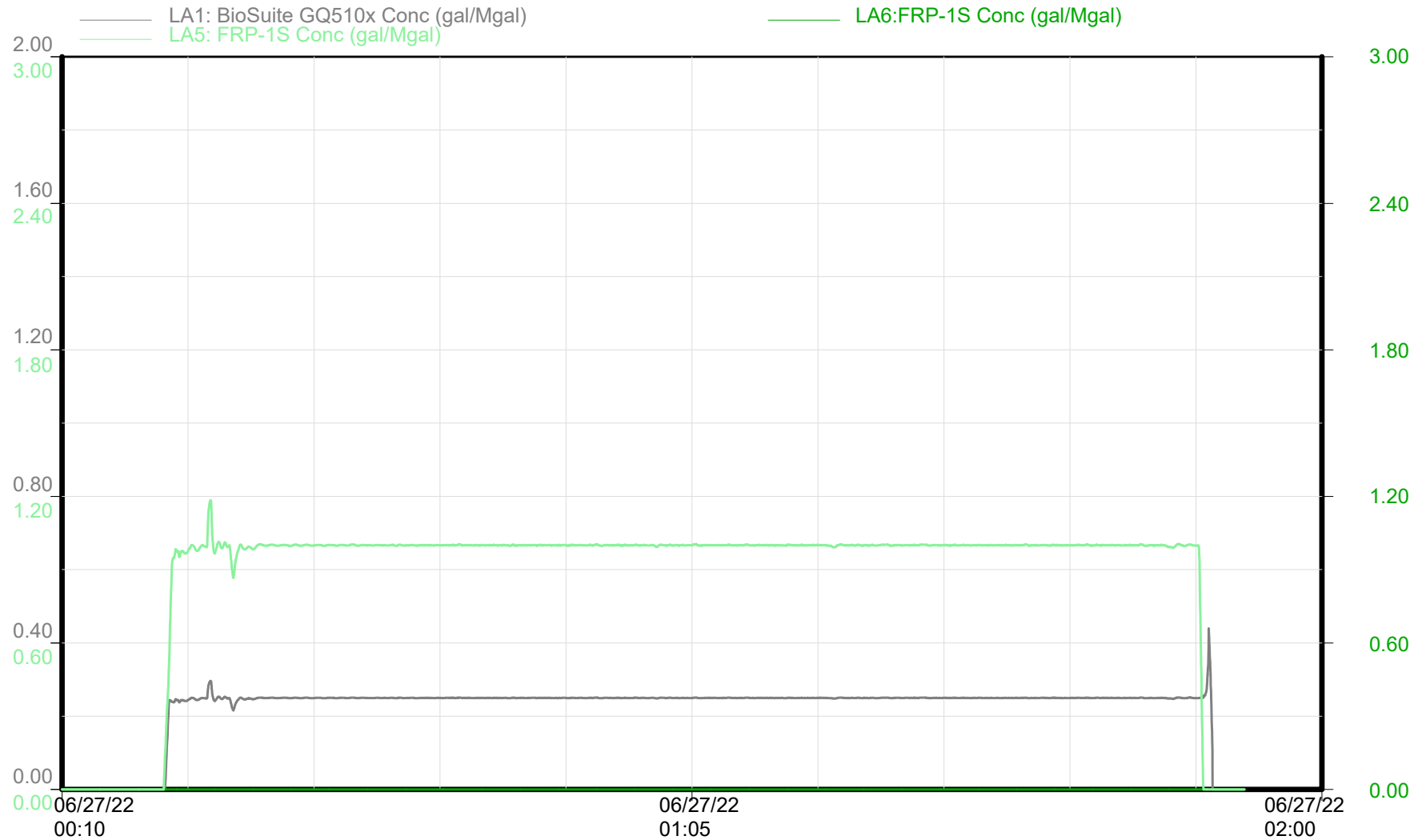
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 46 of 60



Chemical Additives

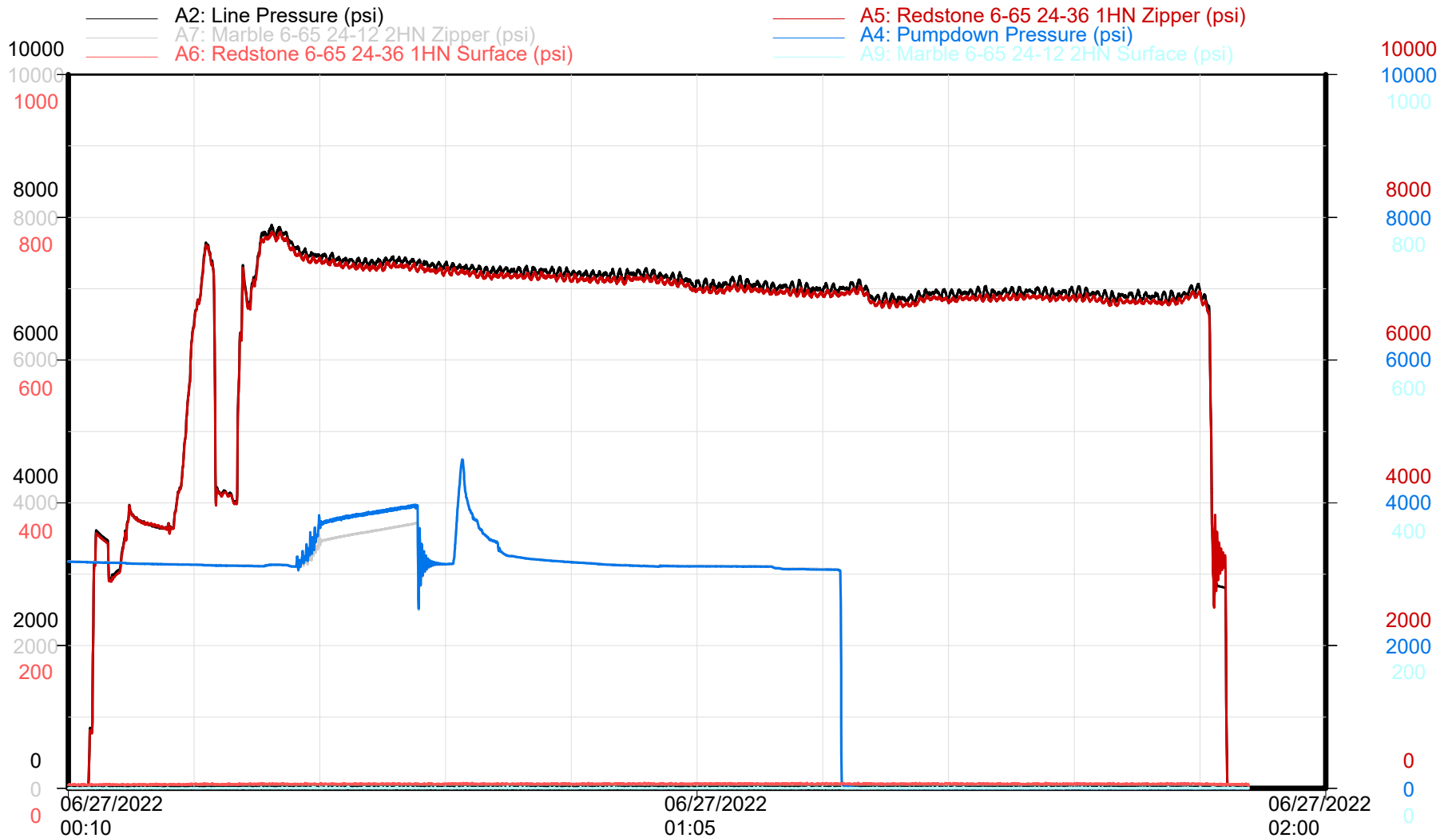
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 46 of 60



Zipper Pressures

Time

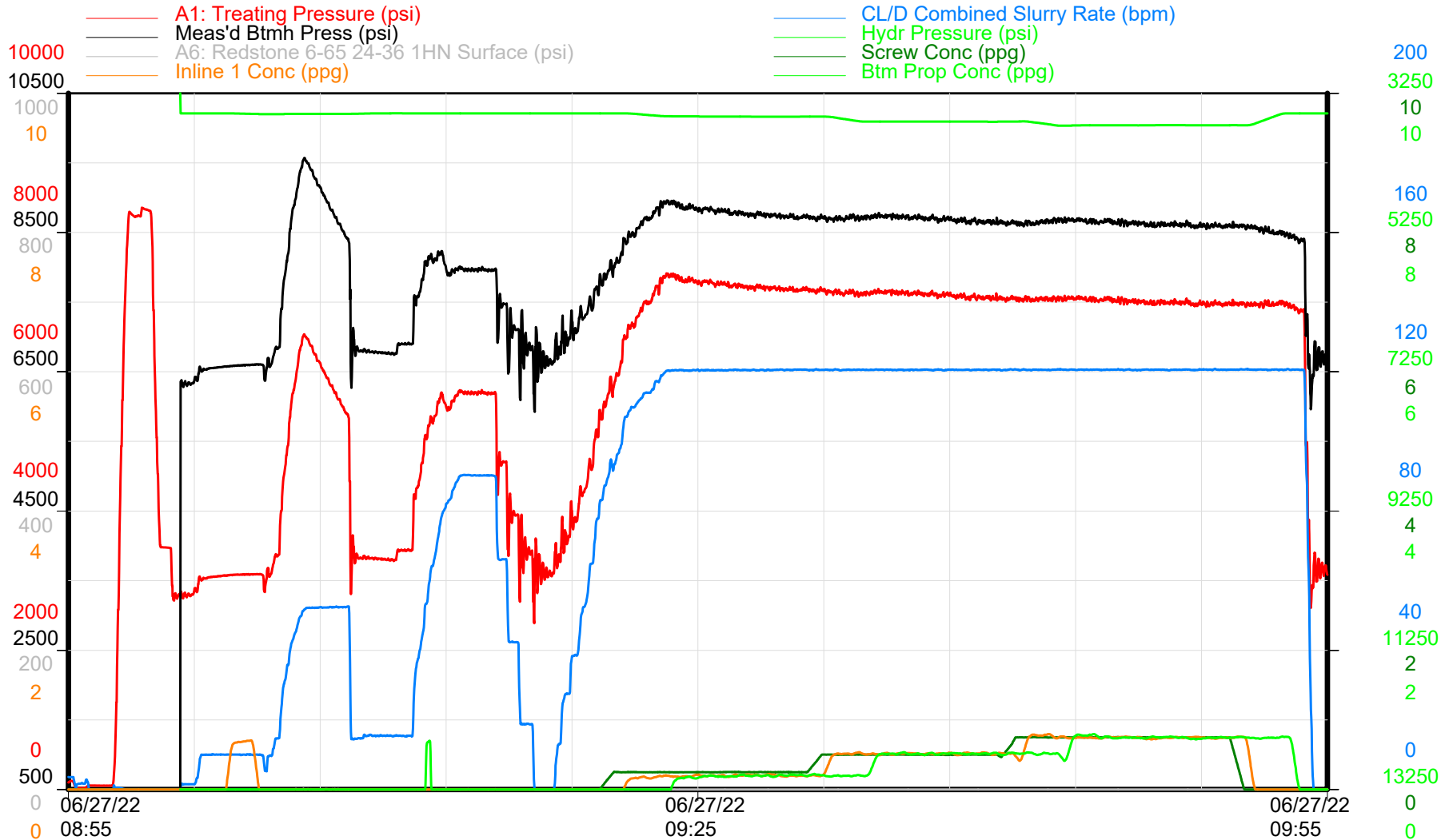
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 47



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 47a of 60



Treatment Plot

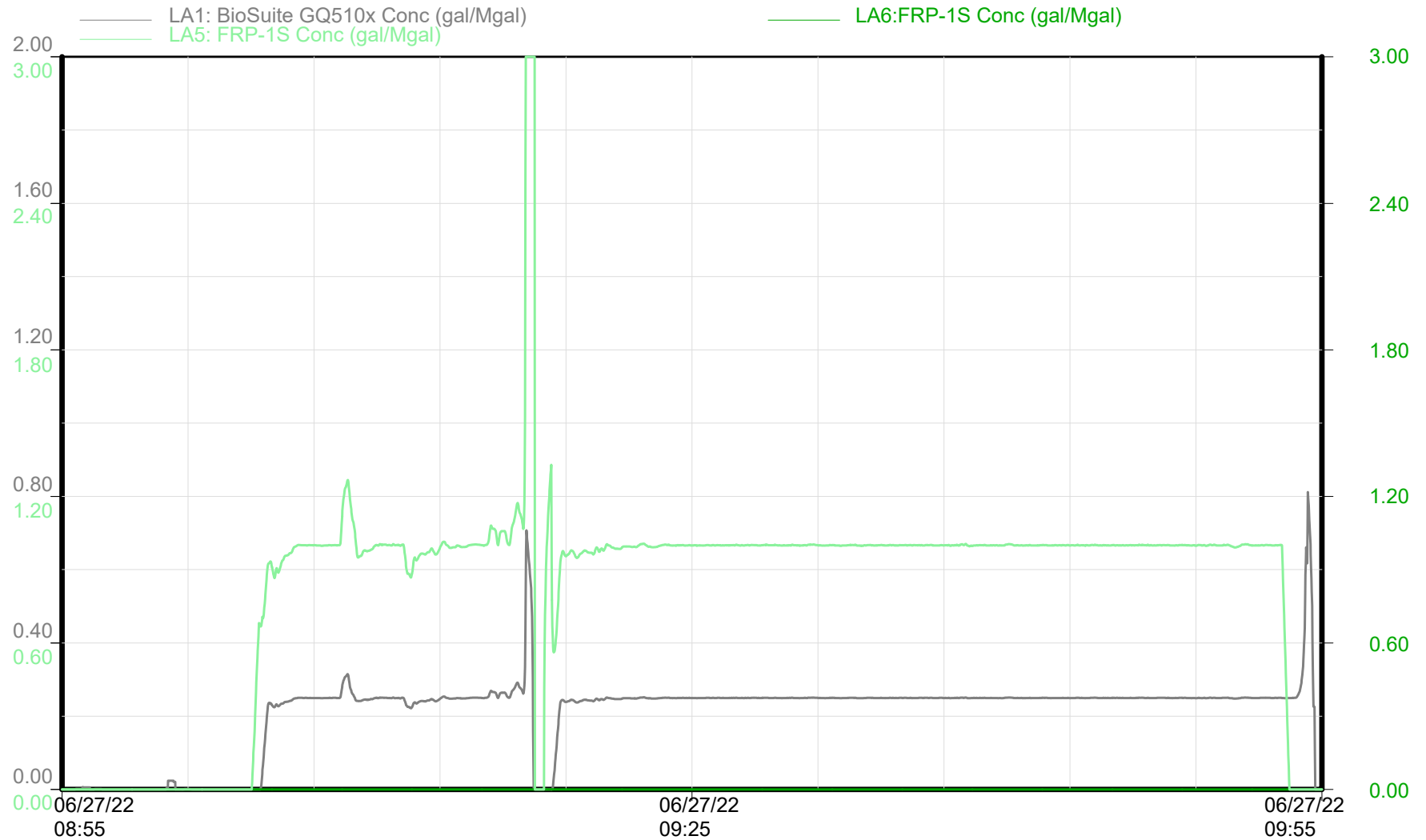
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 47a of 60



Chemical Additives

Time

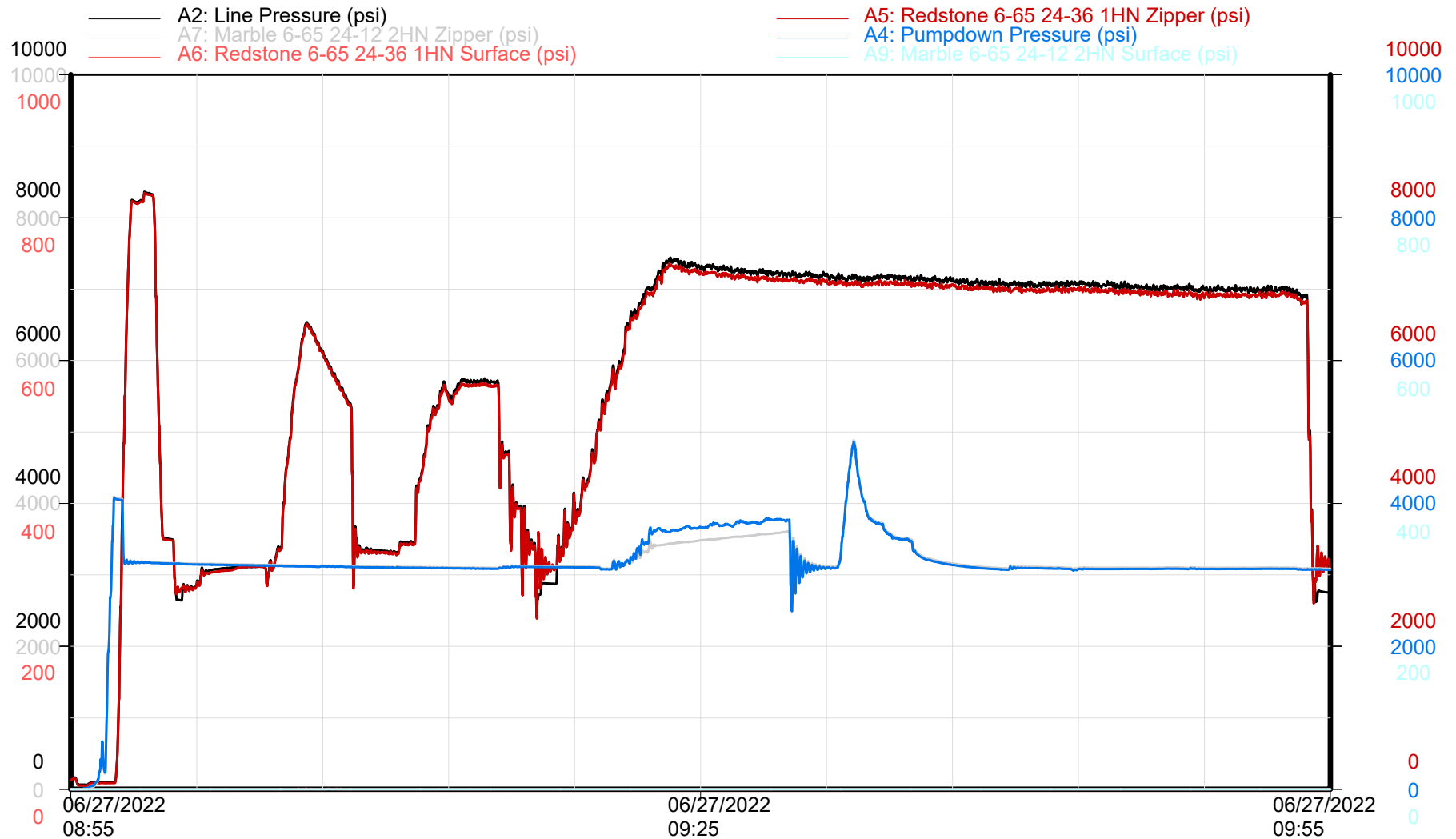
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 47



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 47a of 60



Zipper Pressures

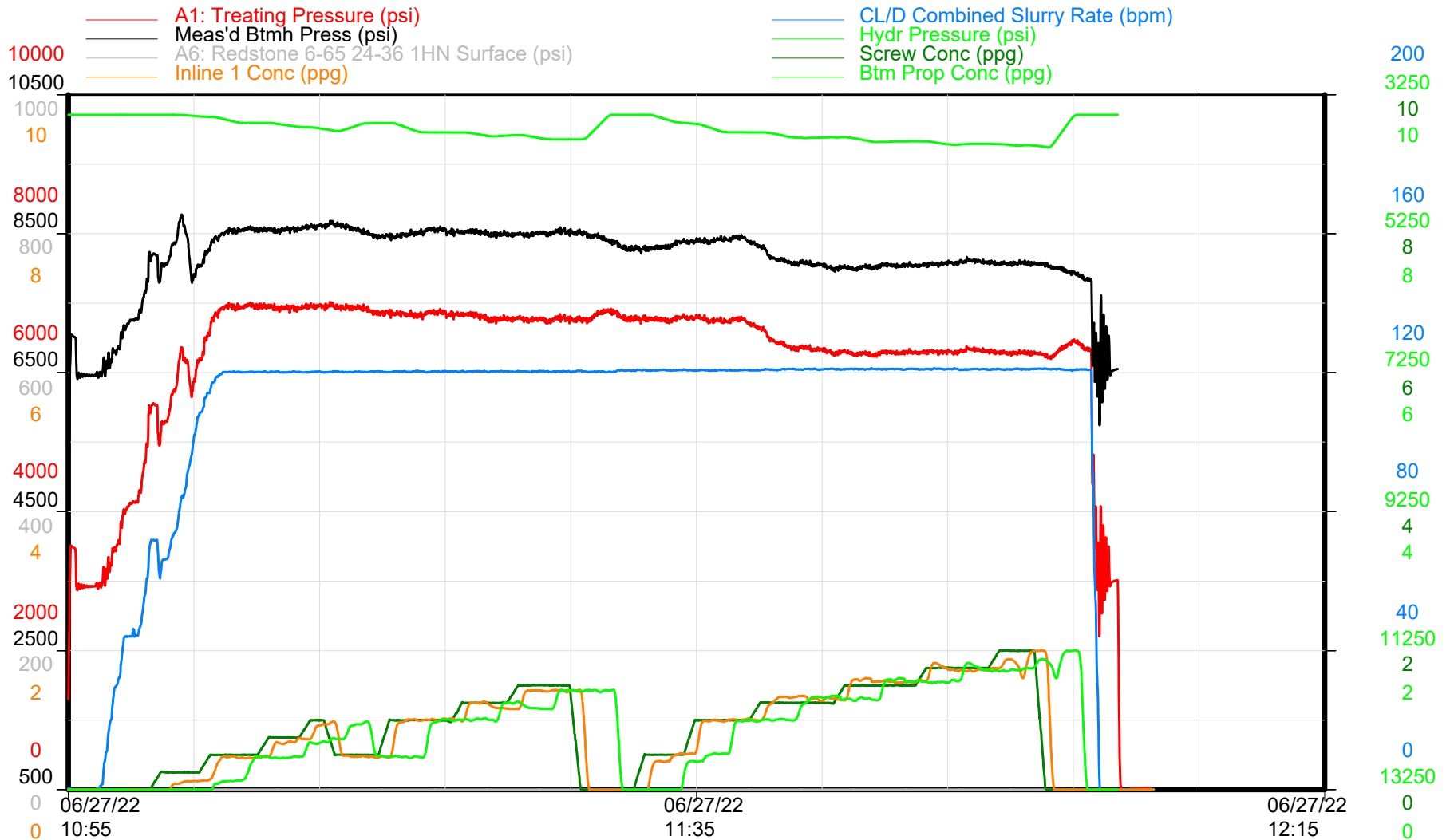
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 47

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 47b of 60



Treatment Plot

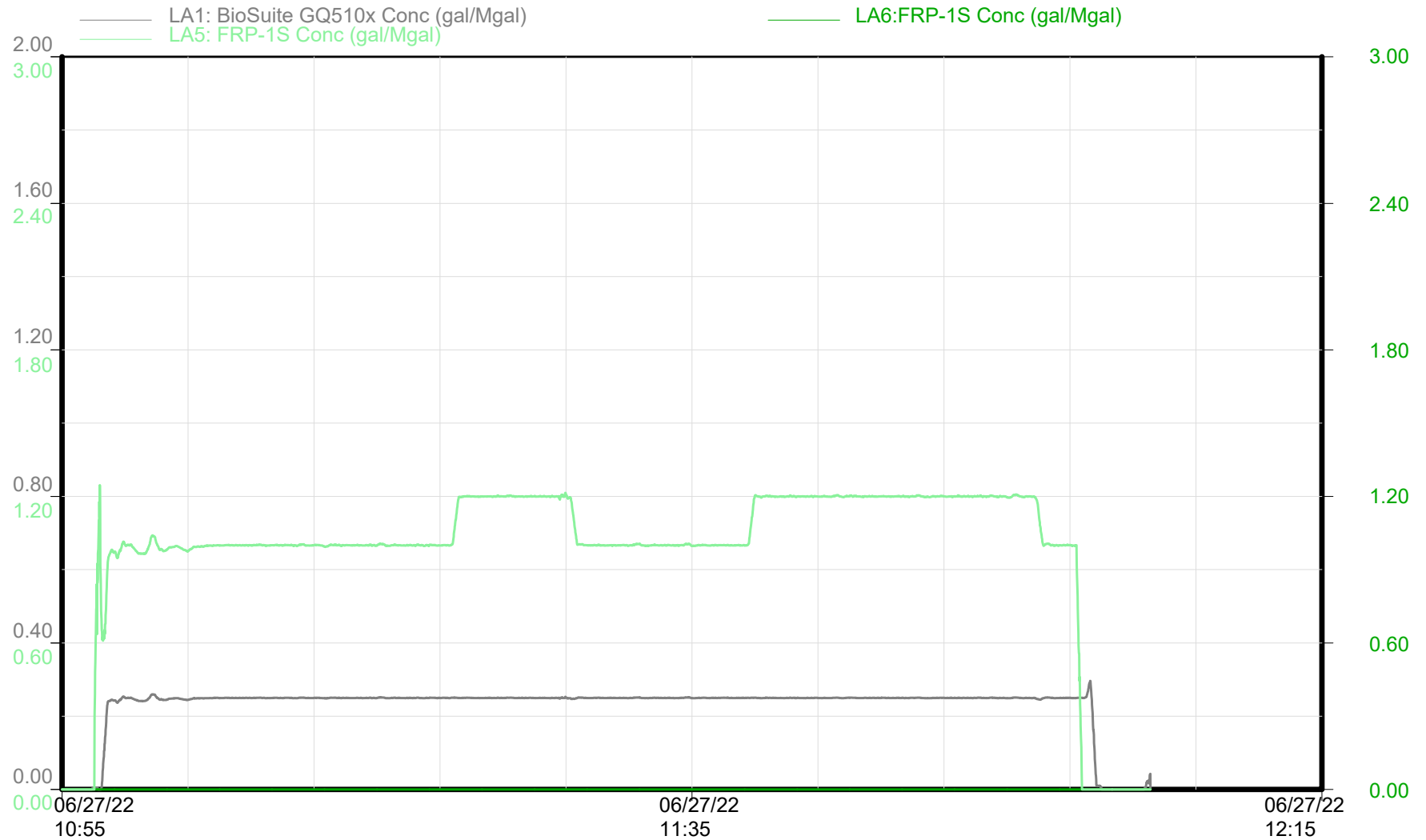
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 47b of 60



Chemical Additives

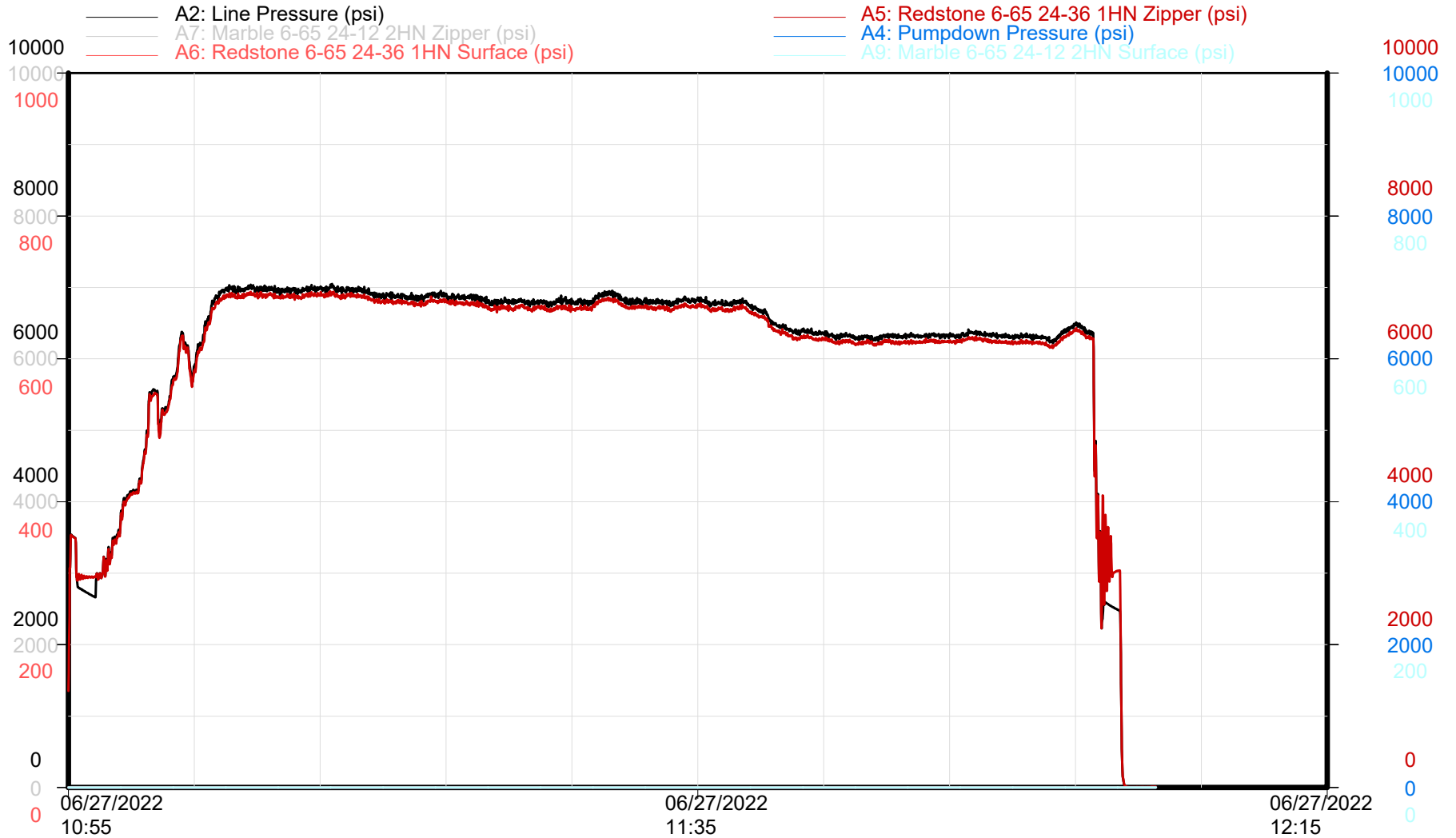
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 47



GMT - REDSTONE 6-65 24-36 1HN
Niobrara - Stage 47b of 60



Zipper Pressures

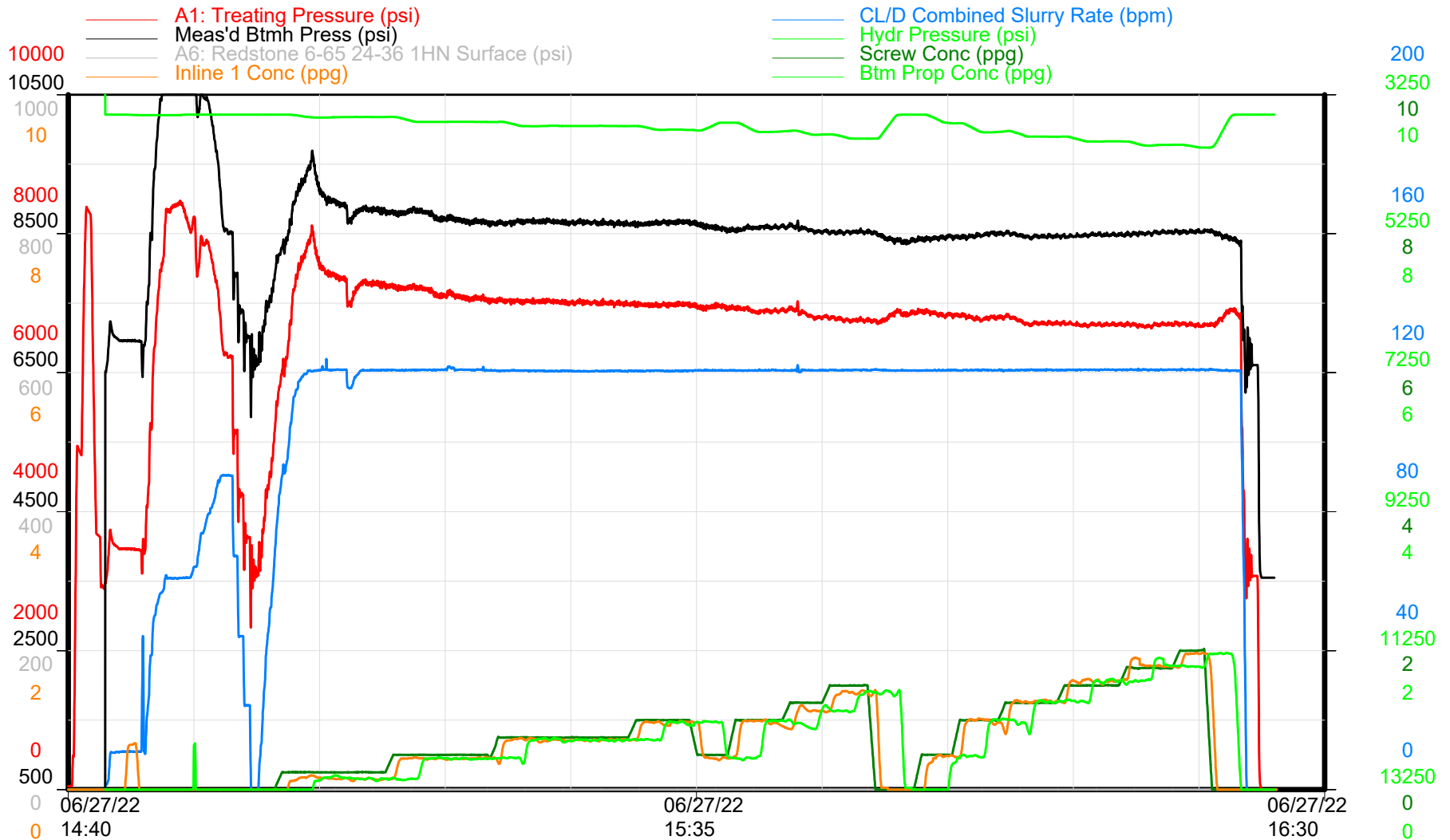
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 48

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 48 of 60



Treatment Plot

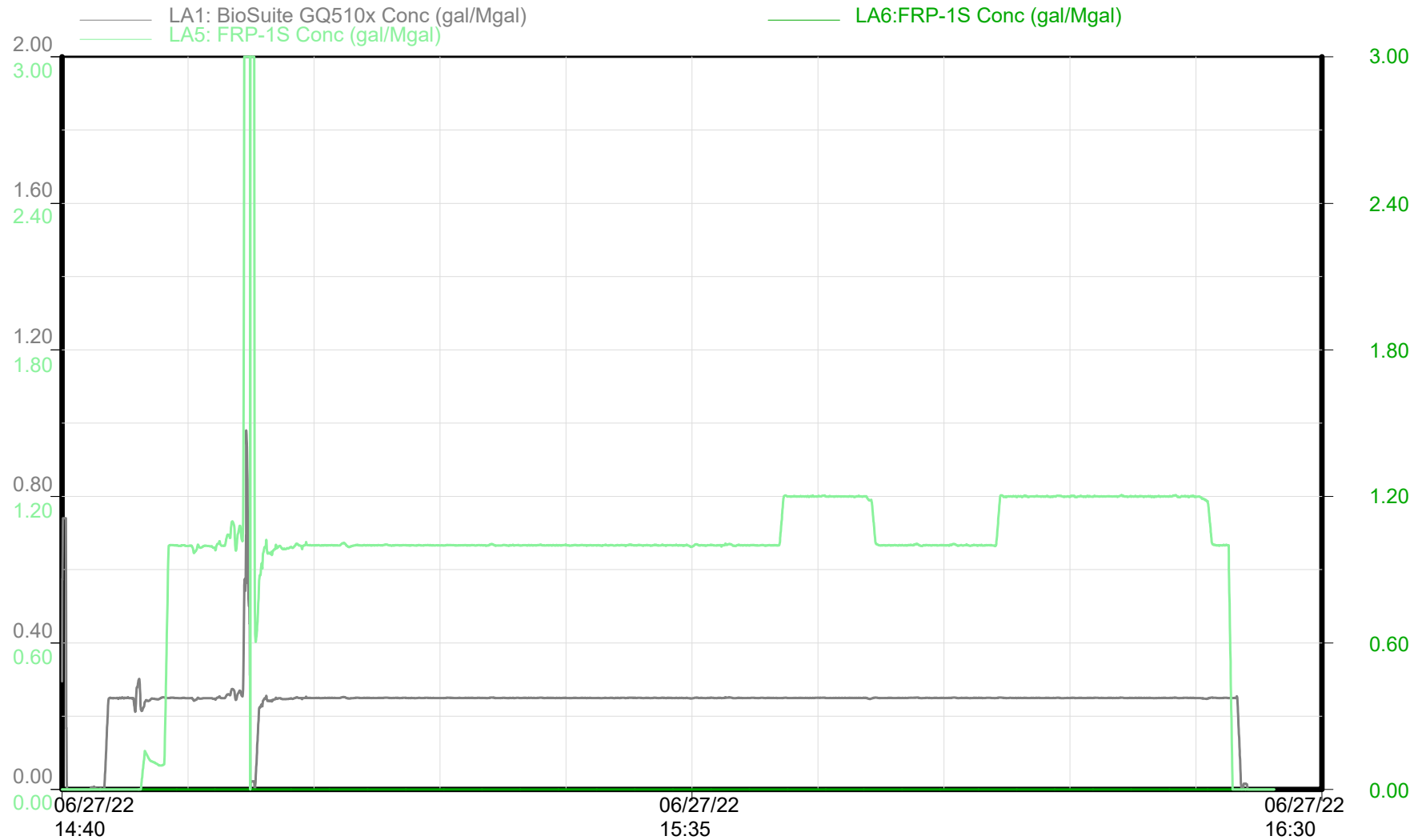
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 48 of 60



Chemical Additives

Time

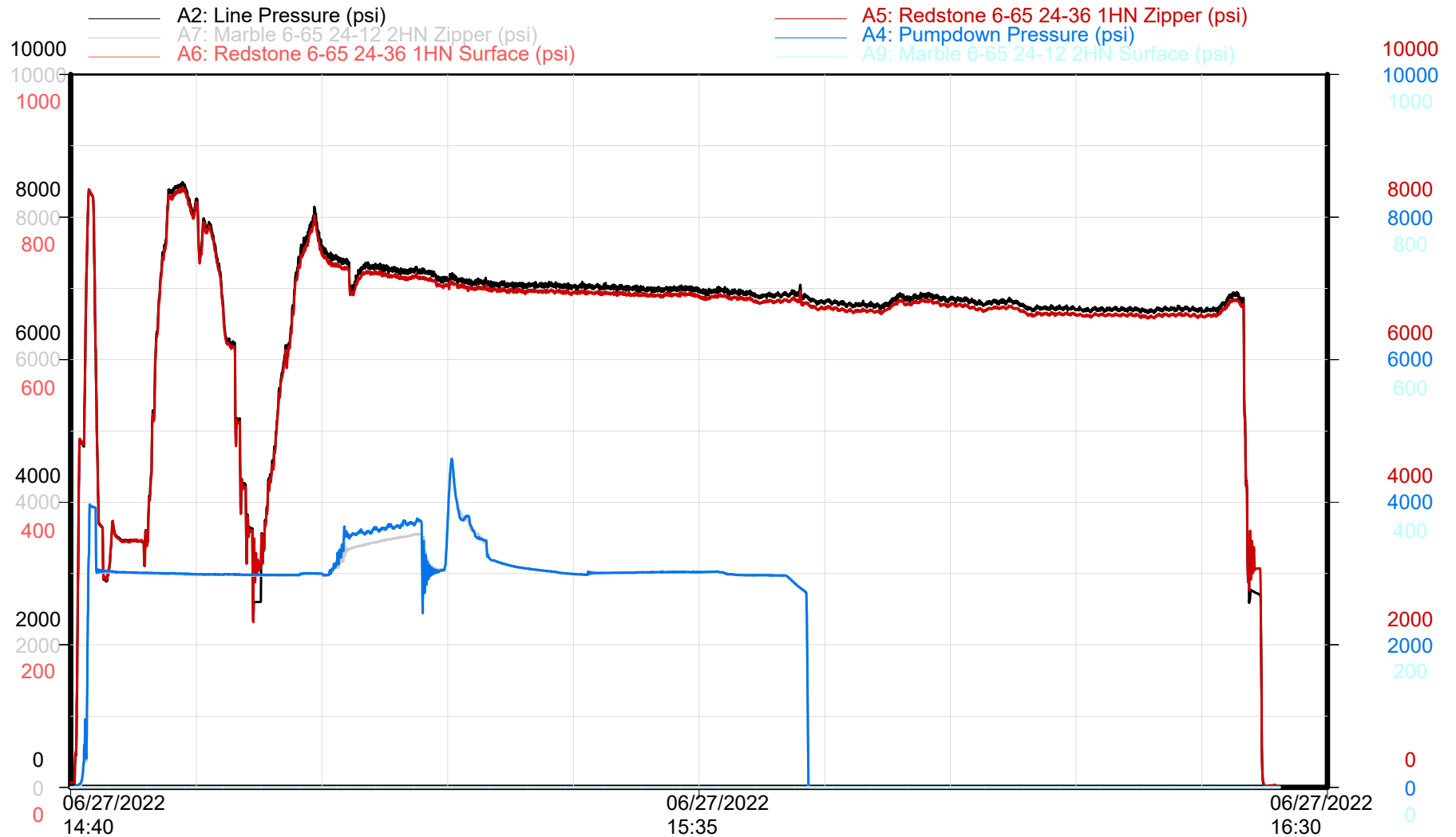
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 48



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 48 of 60



Zipper Pressures

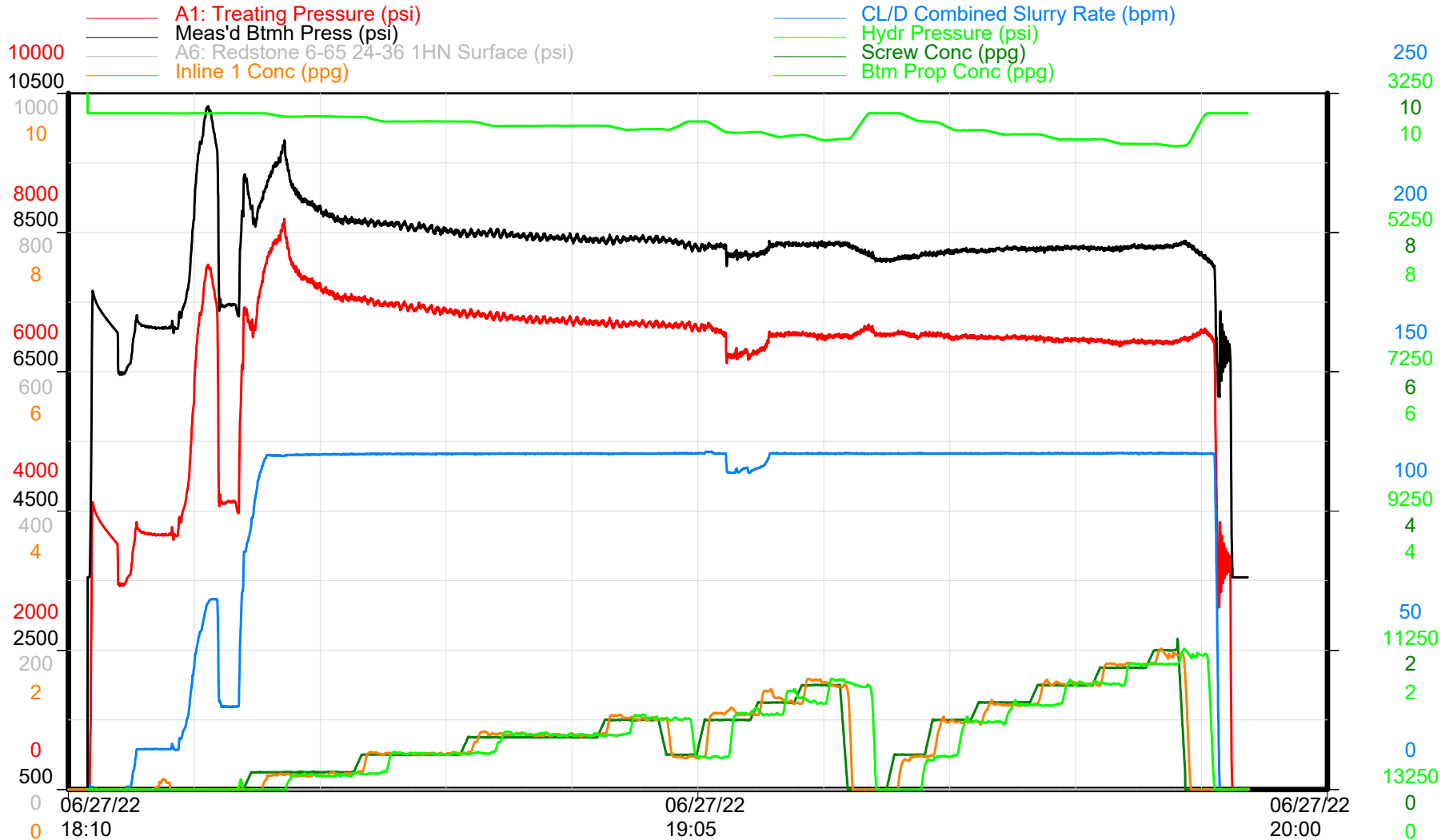
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 49 of 60



Treatment Plot

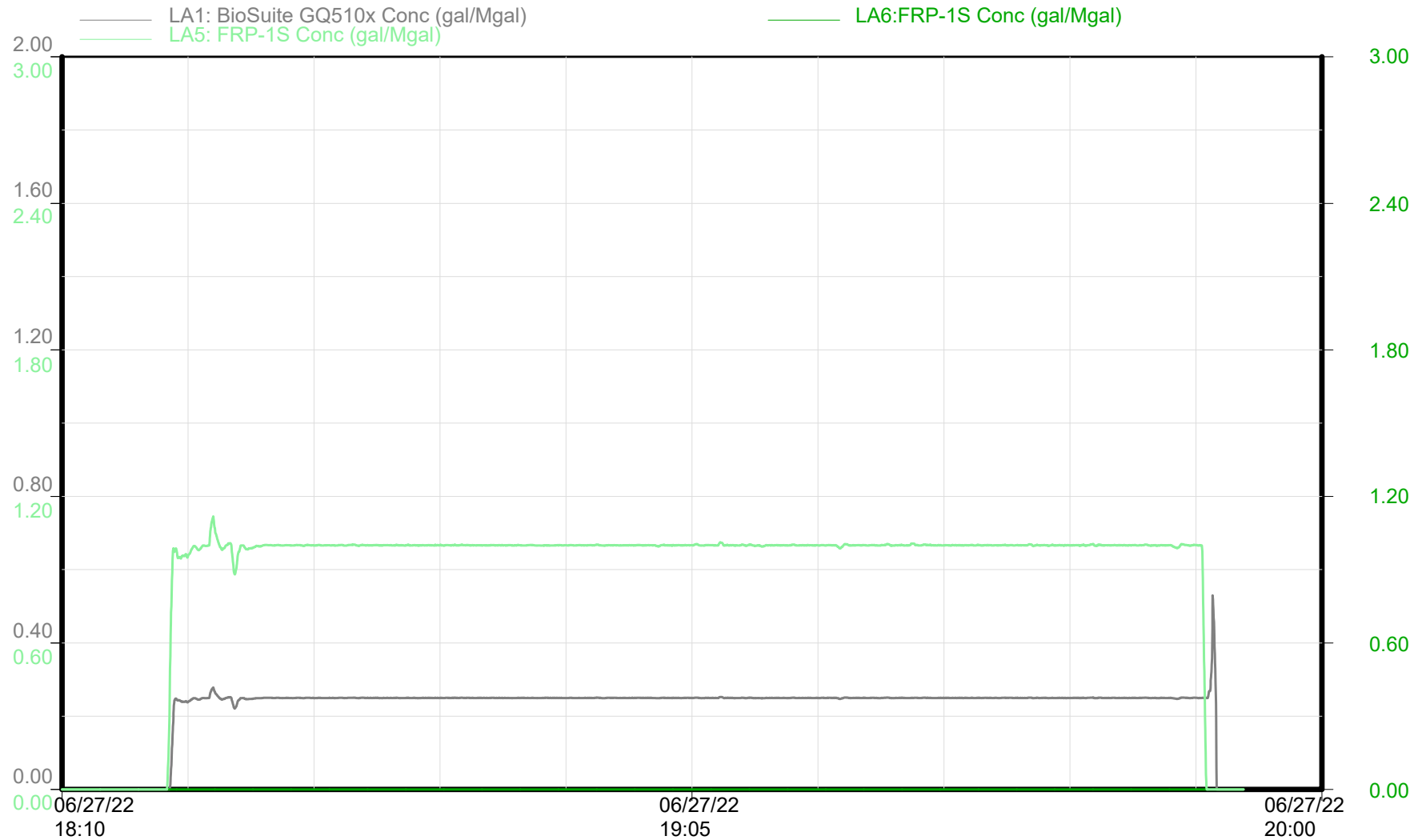
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 49 of 60



Chemical Additives

Time

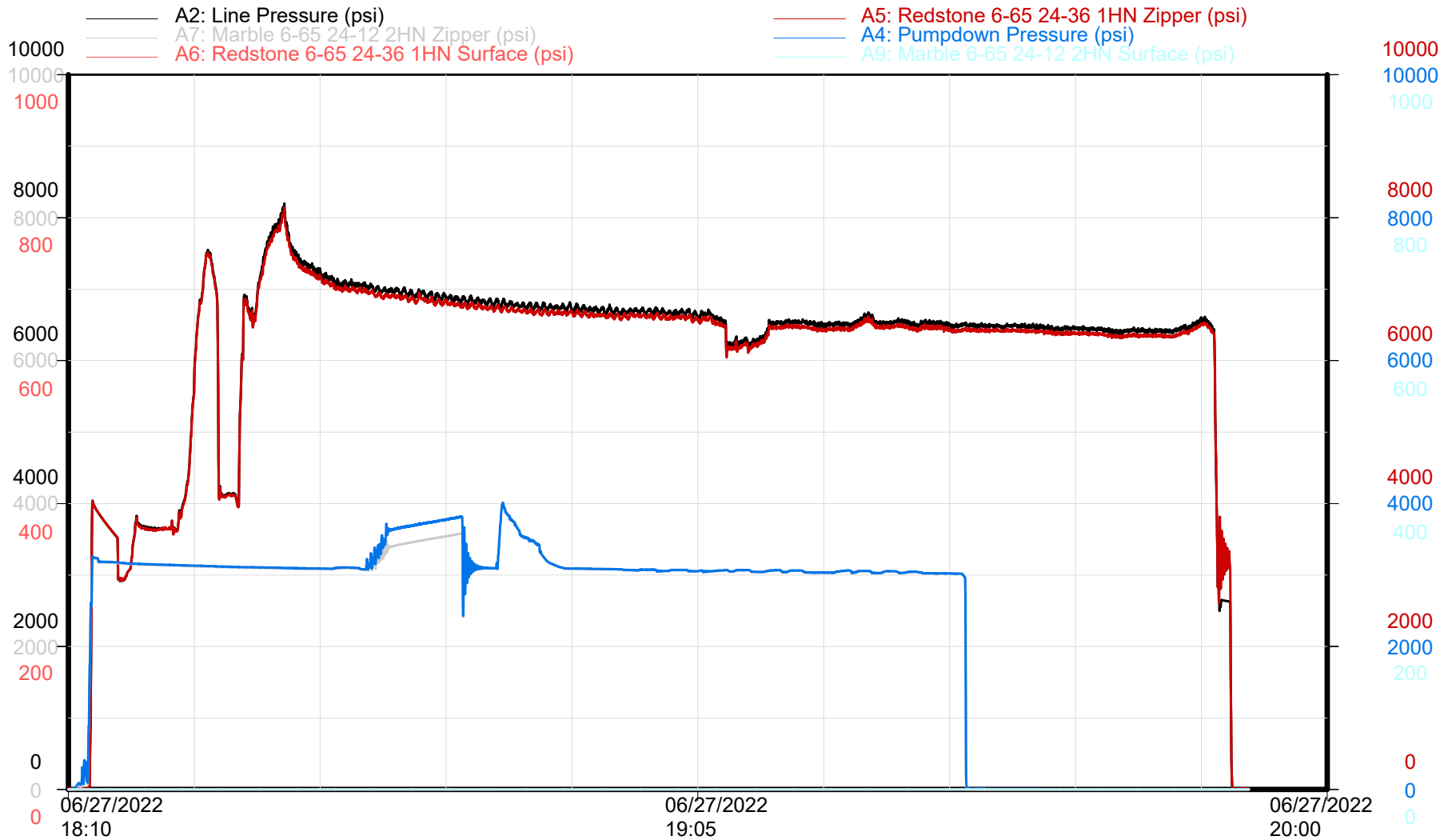
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 49



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 49 of 60



Zipper Pressures

Time

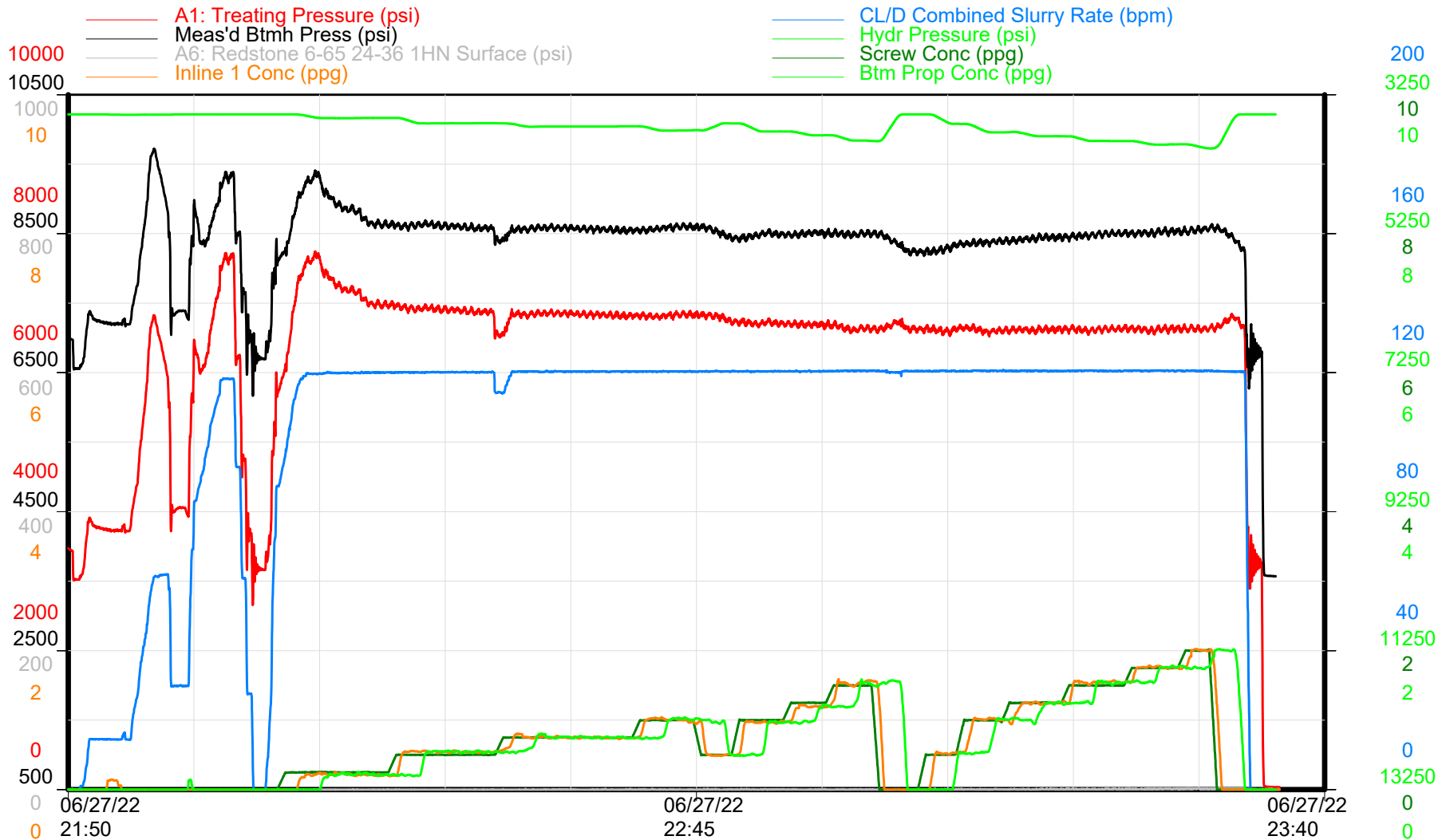
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 50



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 50 of 60



Treatment Plot

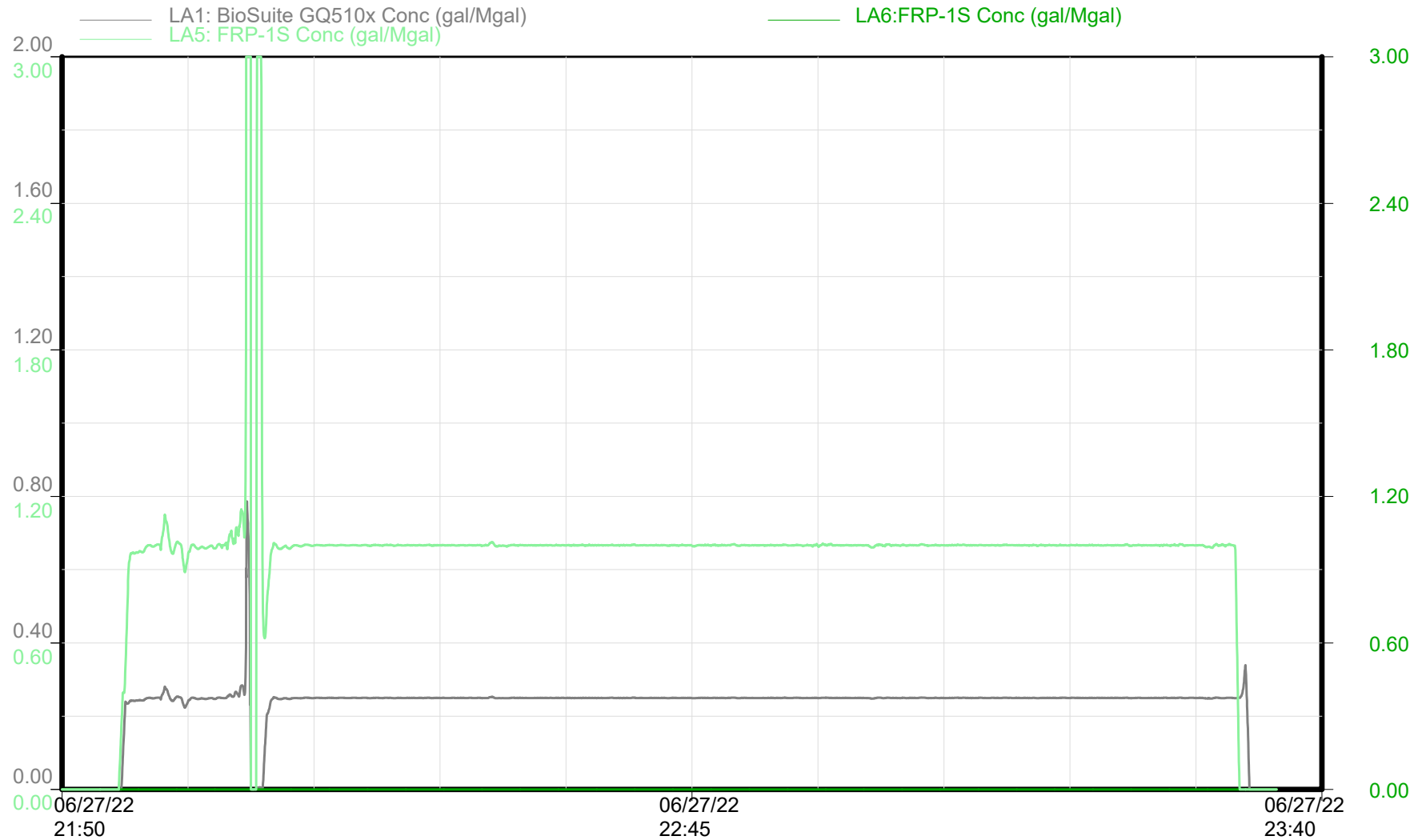
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 50 of 60



Chemical Additives

Time

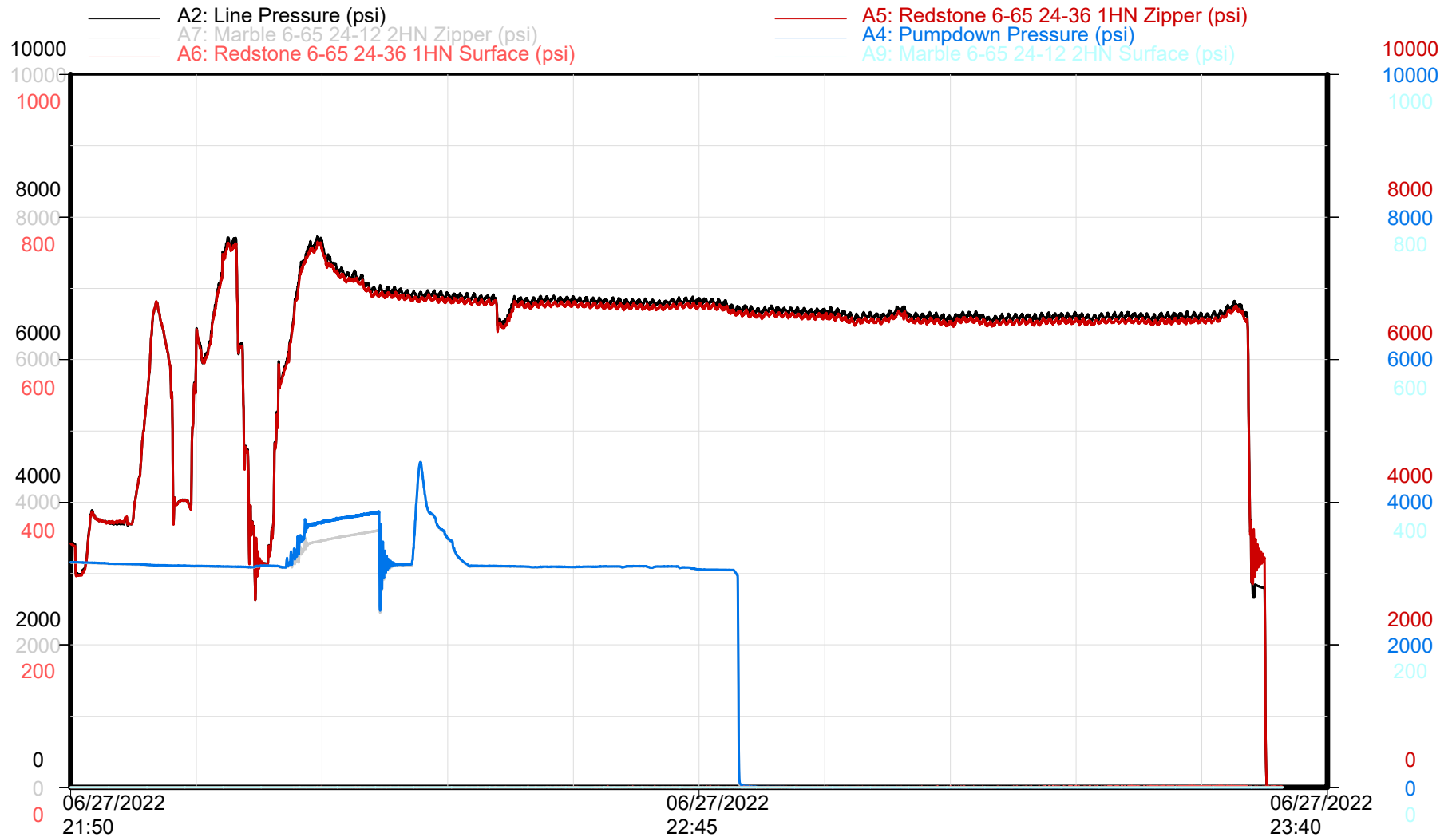
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 50



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 50 of 60



Zipper Pressures

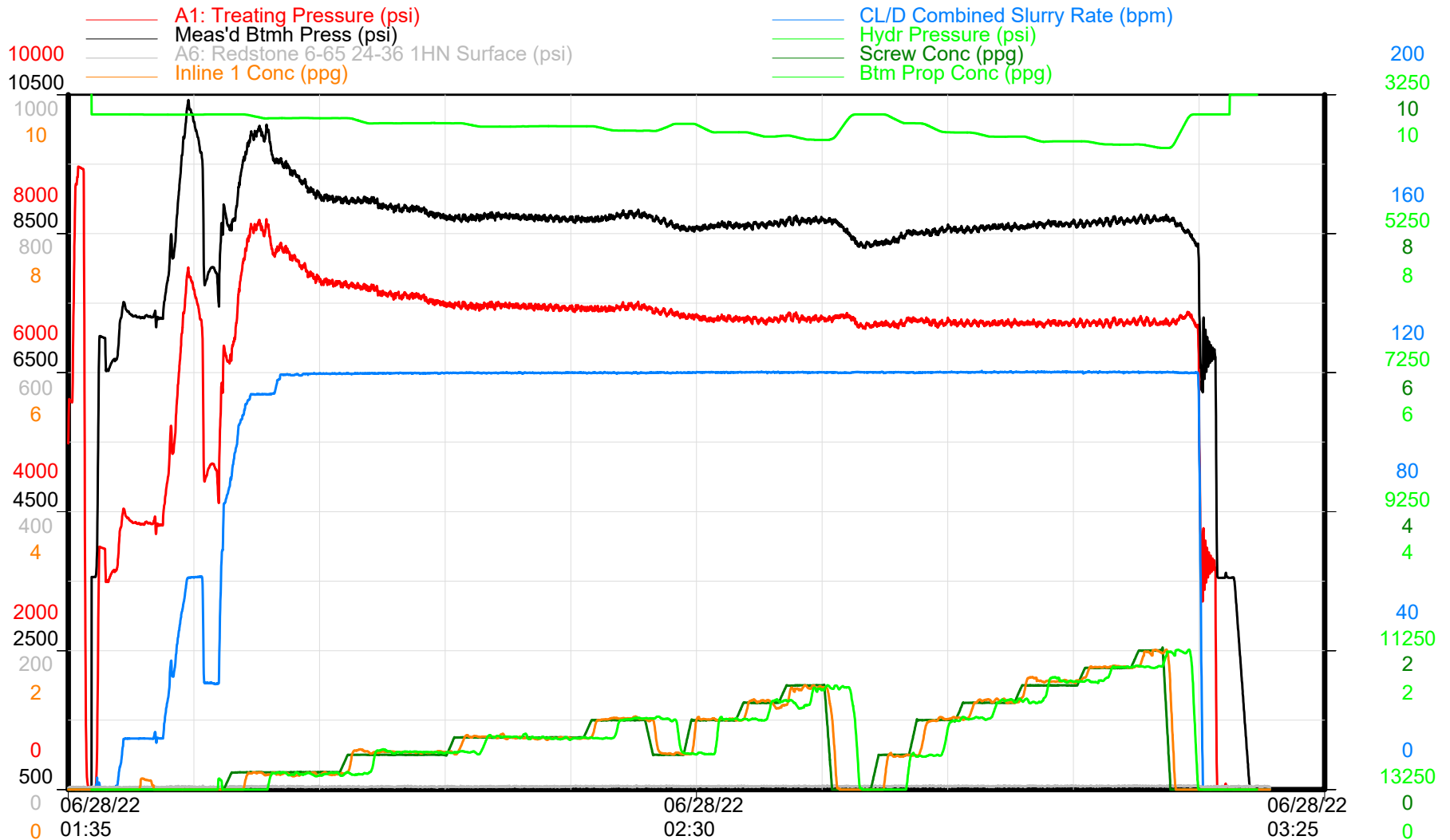
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 51

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 51 of 60



Treatment Plot

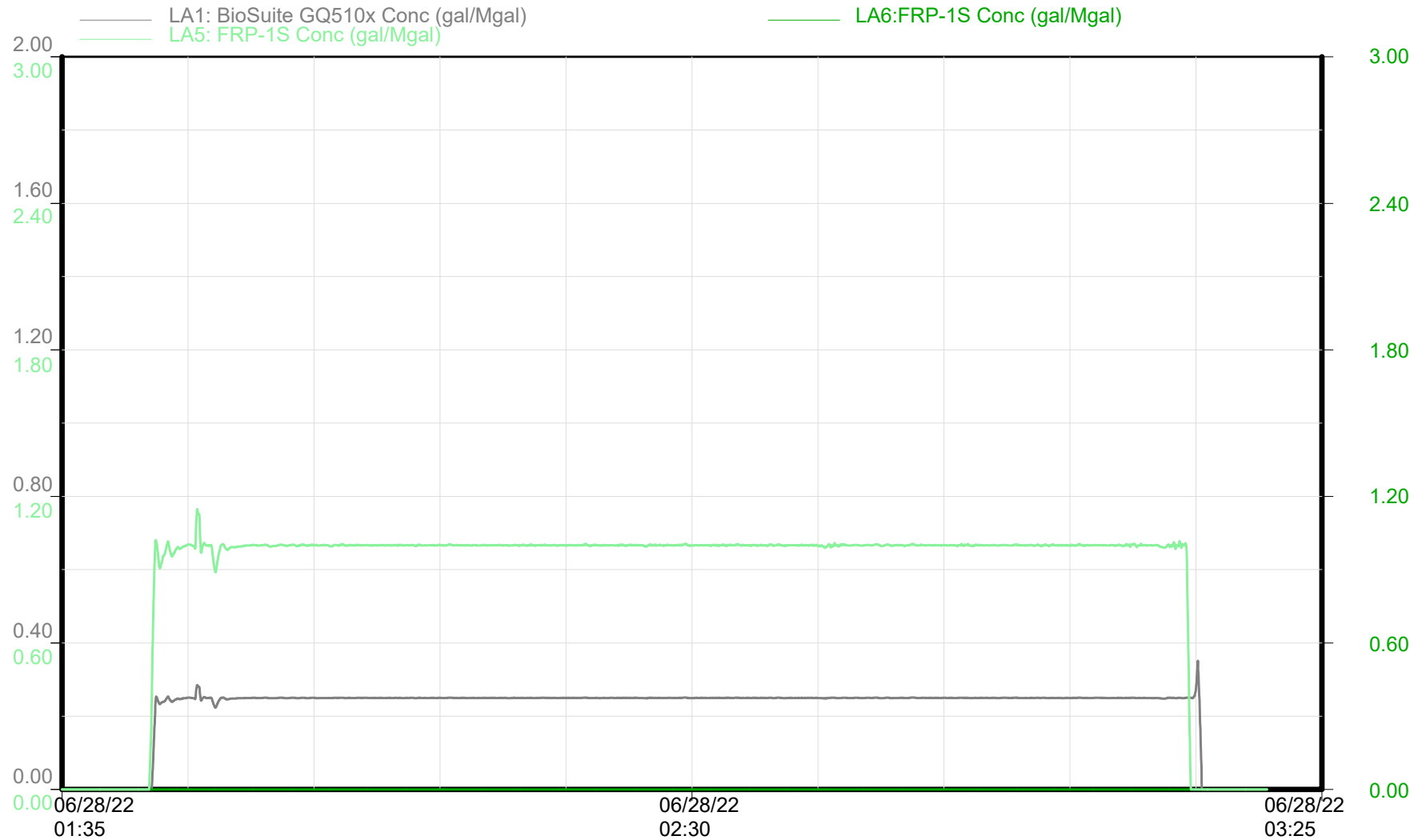
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 51 of 60



Chemical Additives

Time

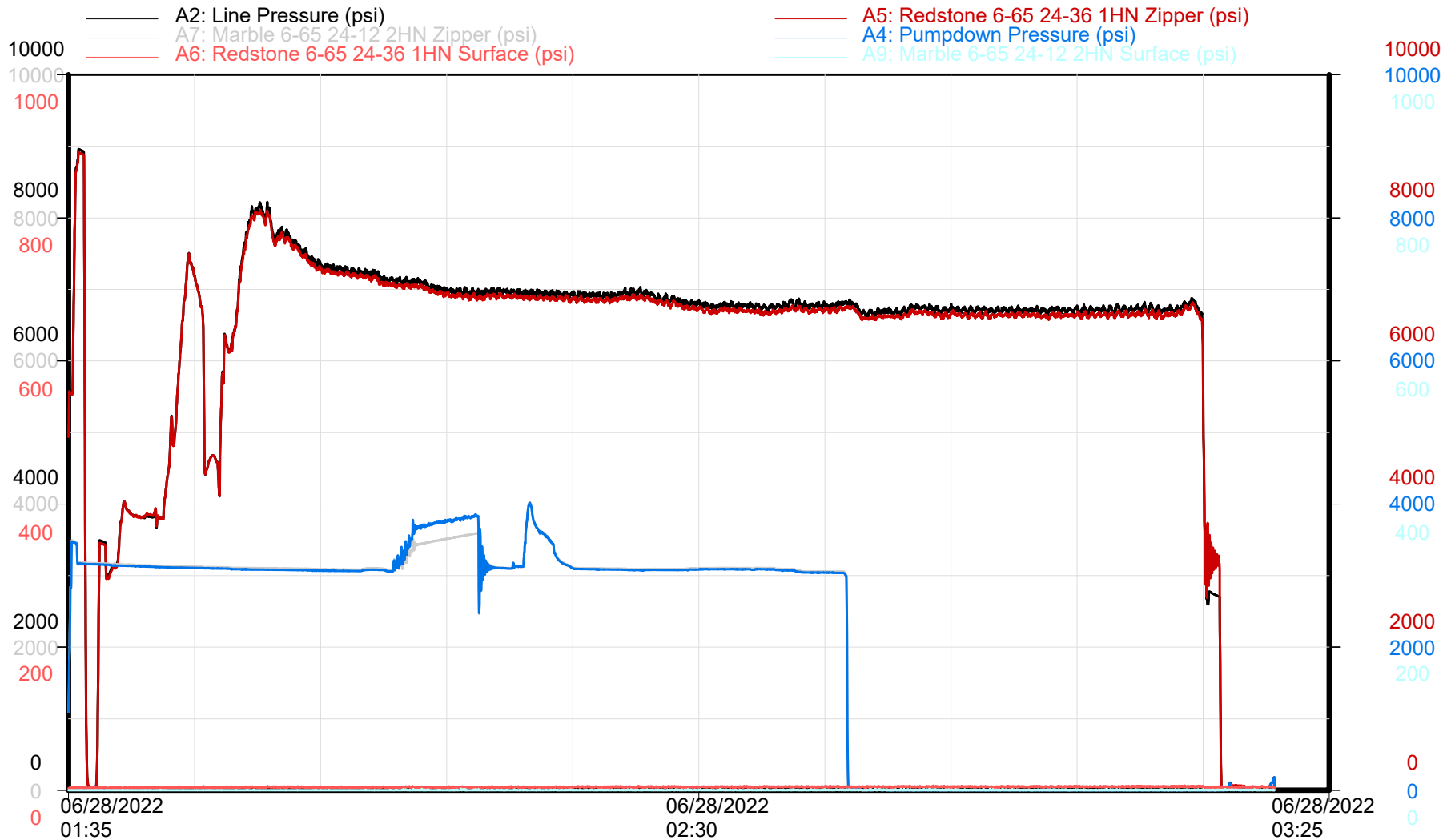
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 51



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 51 of 60



Zipper Pressures

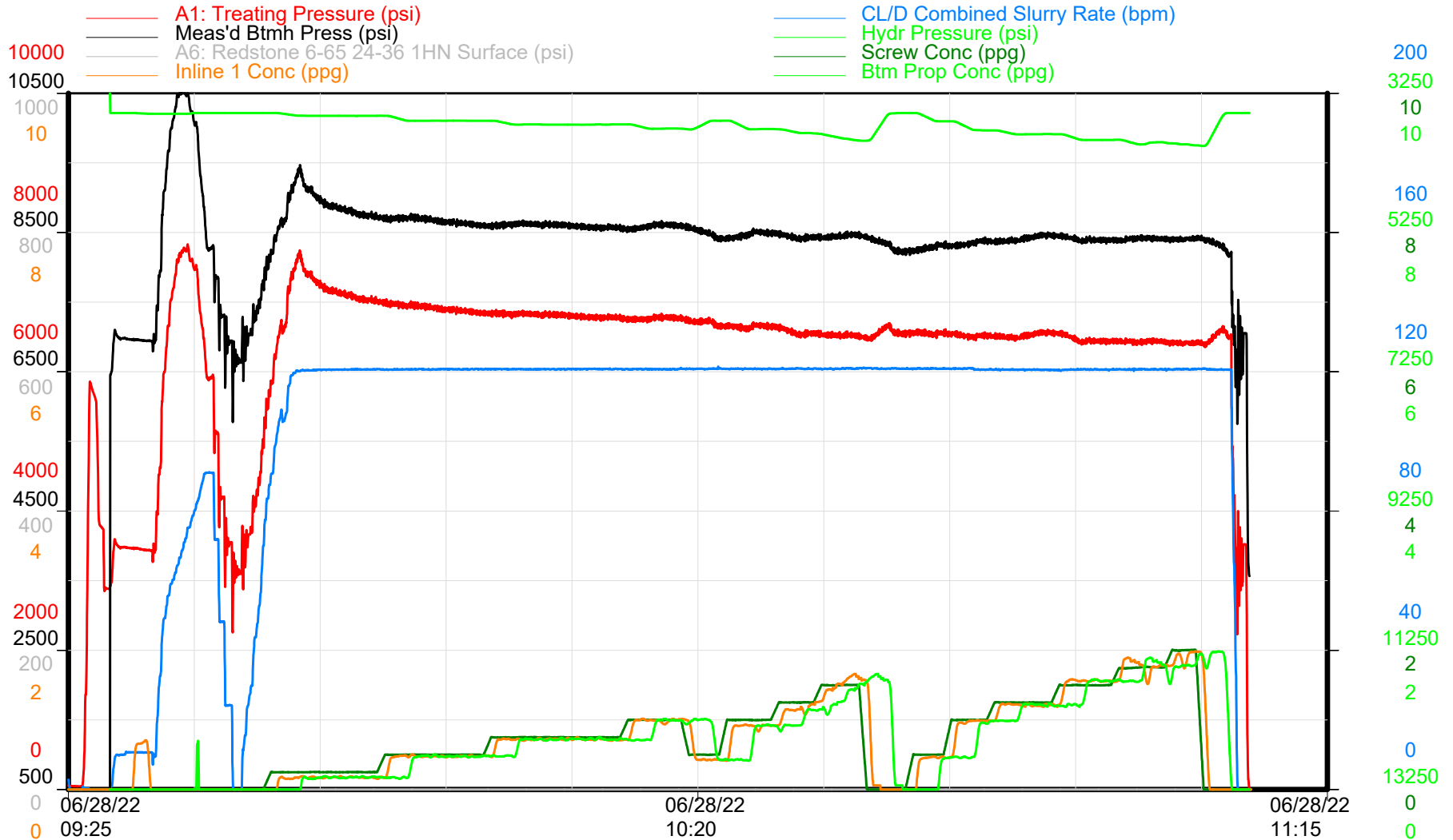
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 52

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 52 of 60



Treatment Plot

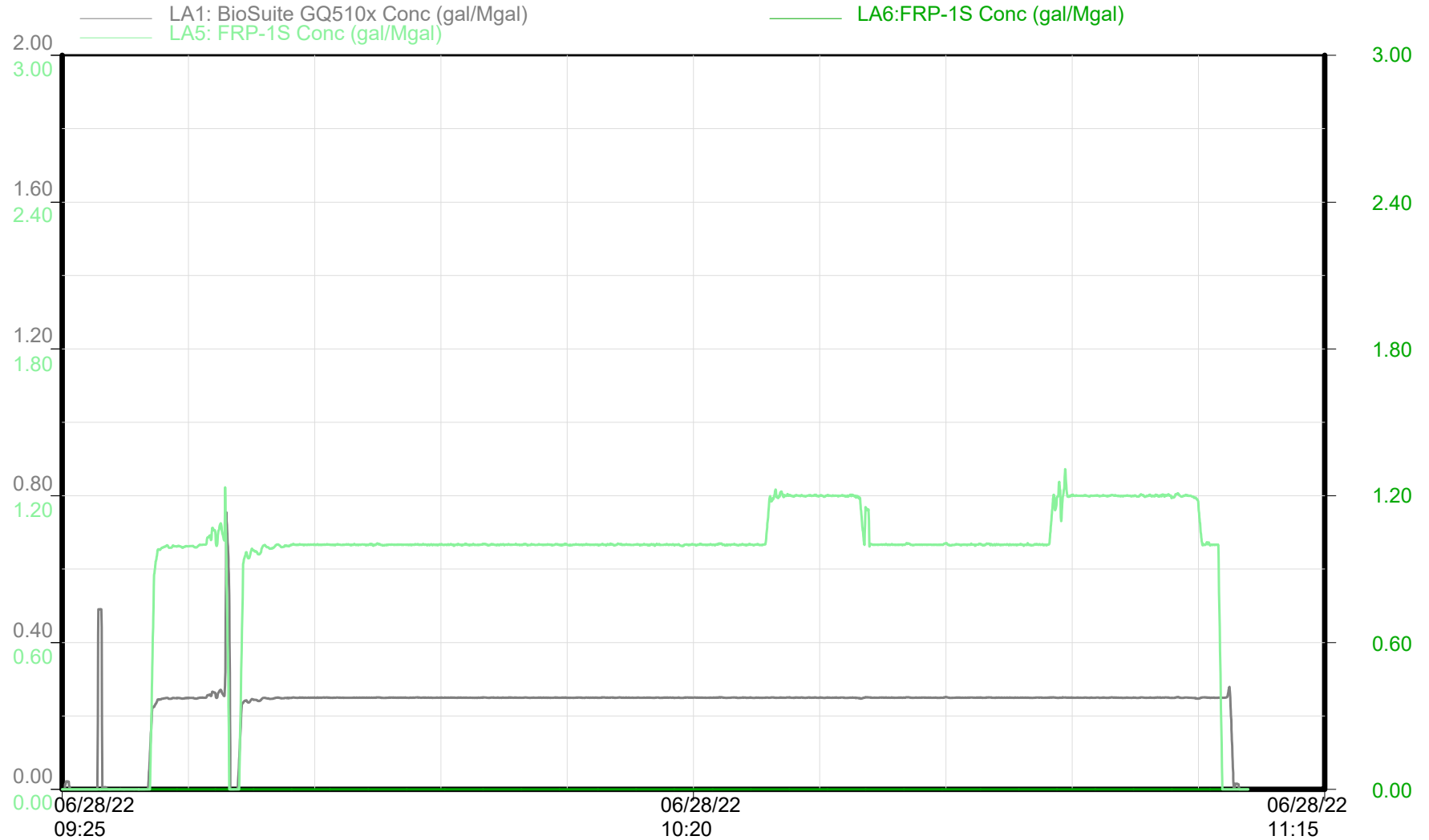
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 52 of 60



Chemical Additives

Time

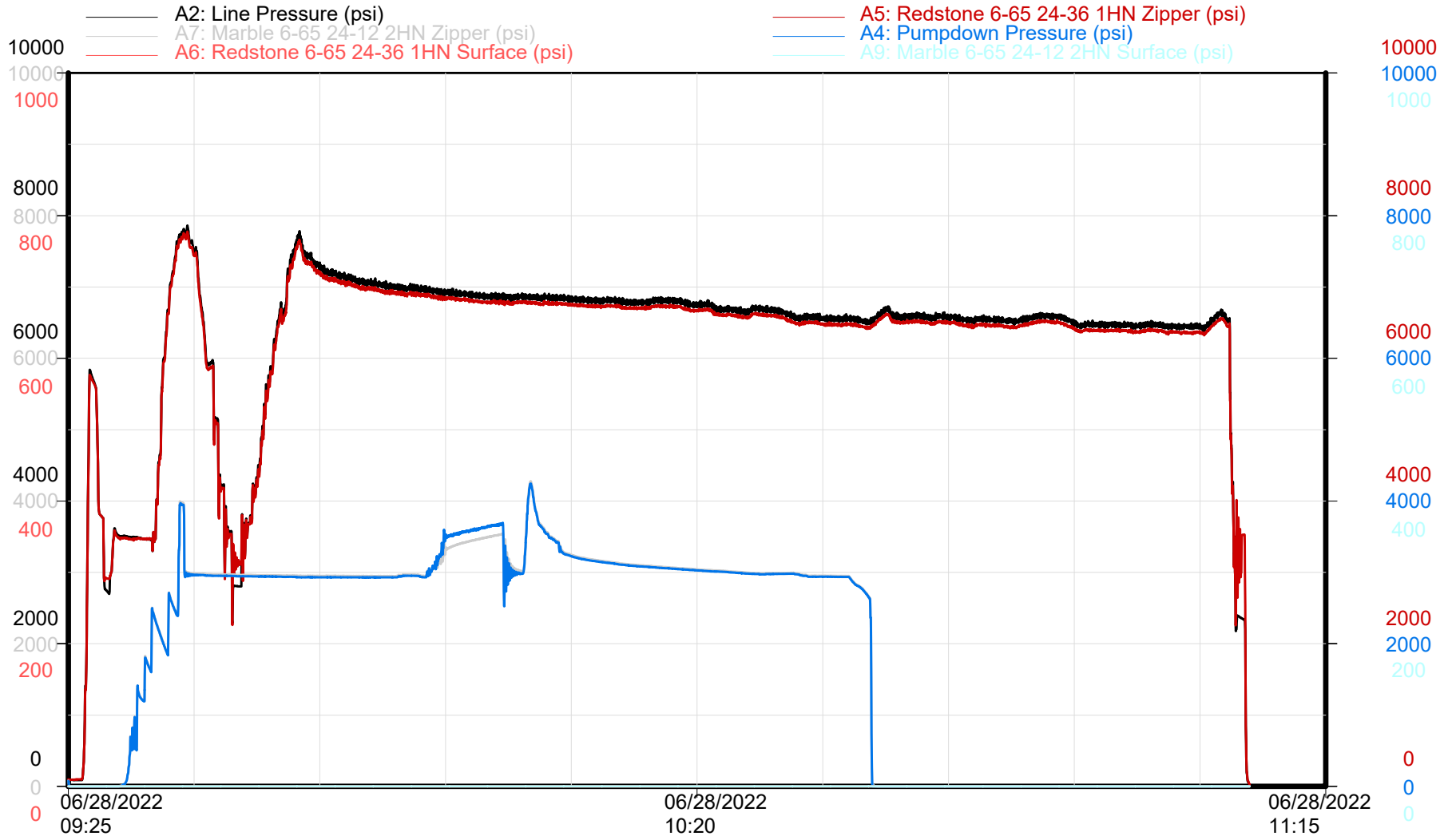
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 52



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 52 of 60



Zipper Pressures

Time

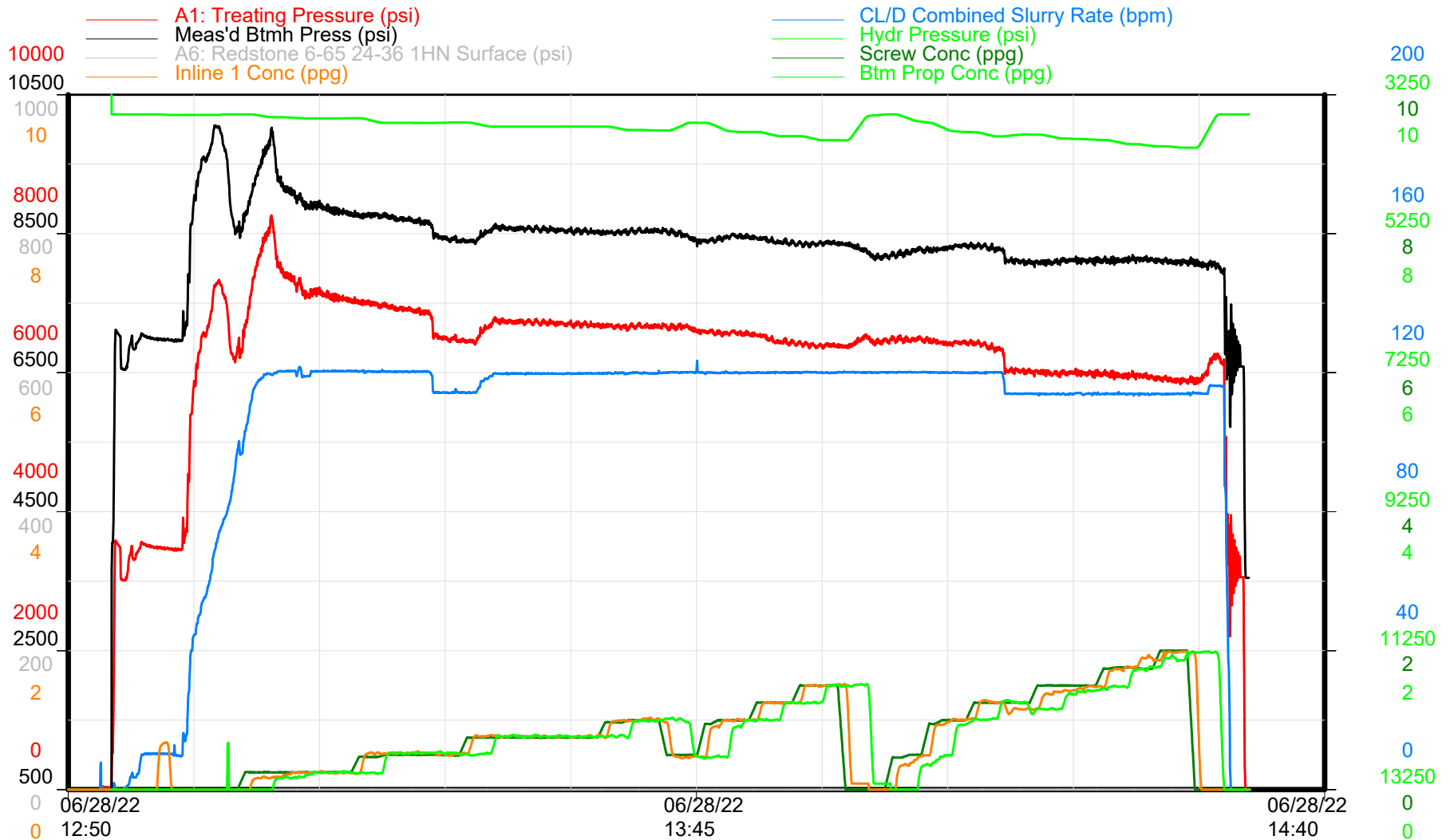
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 53



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 53 of 60



Treatment Plot

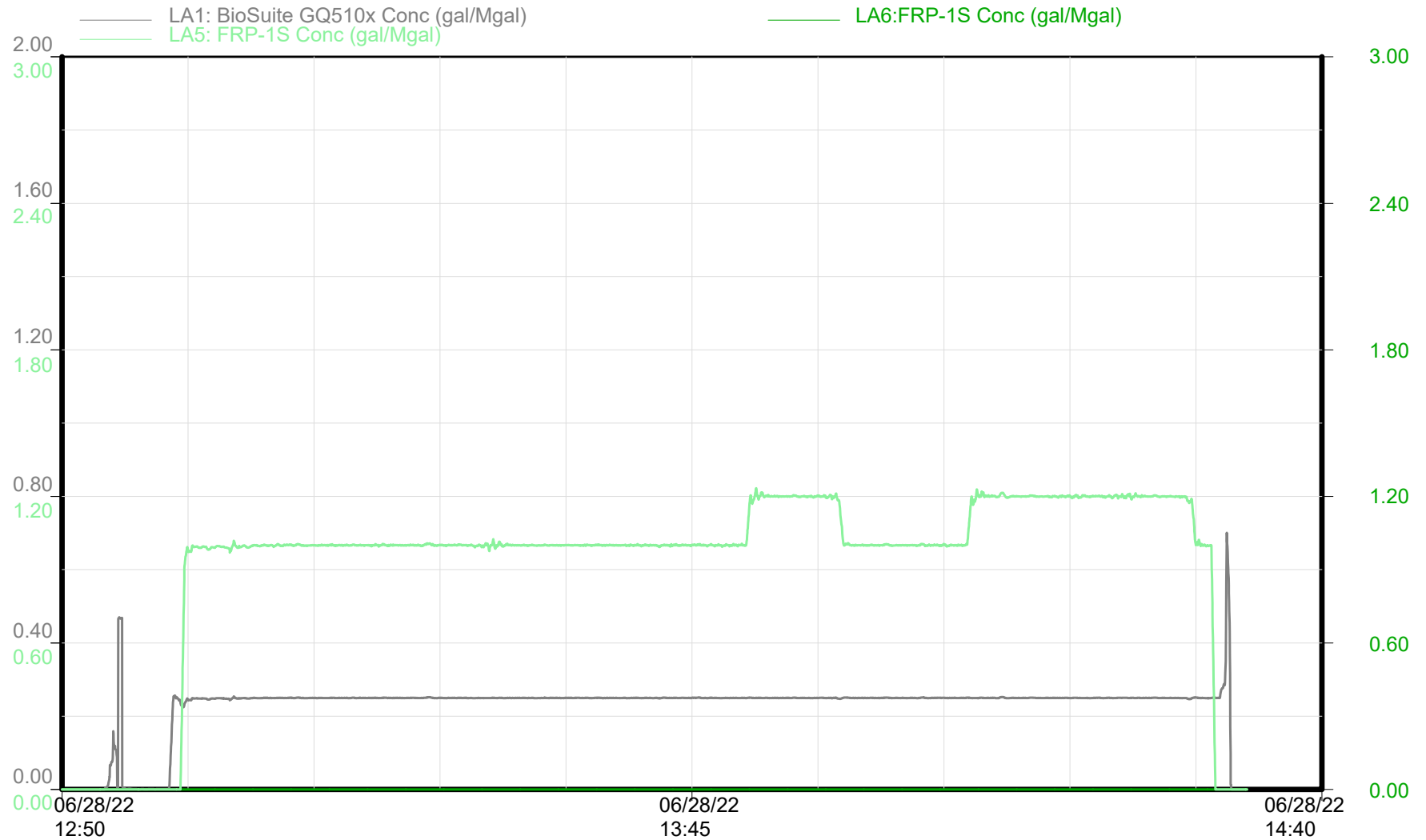
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 53 of 60



Chemical Additives

Time

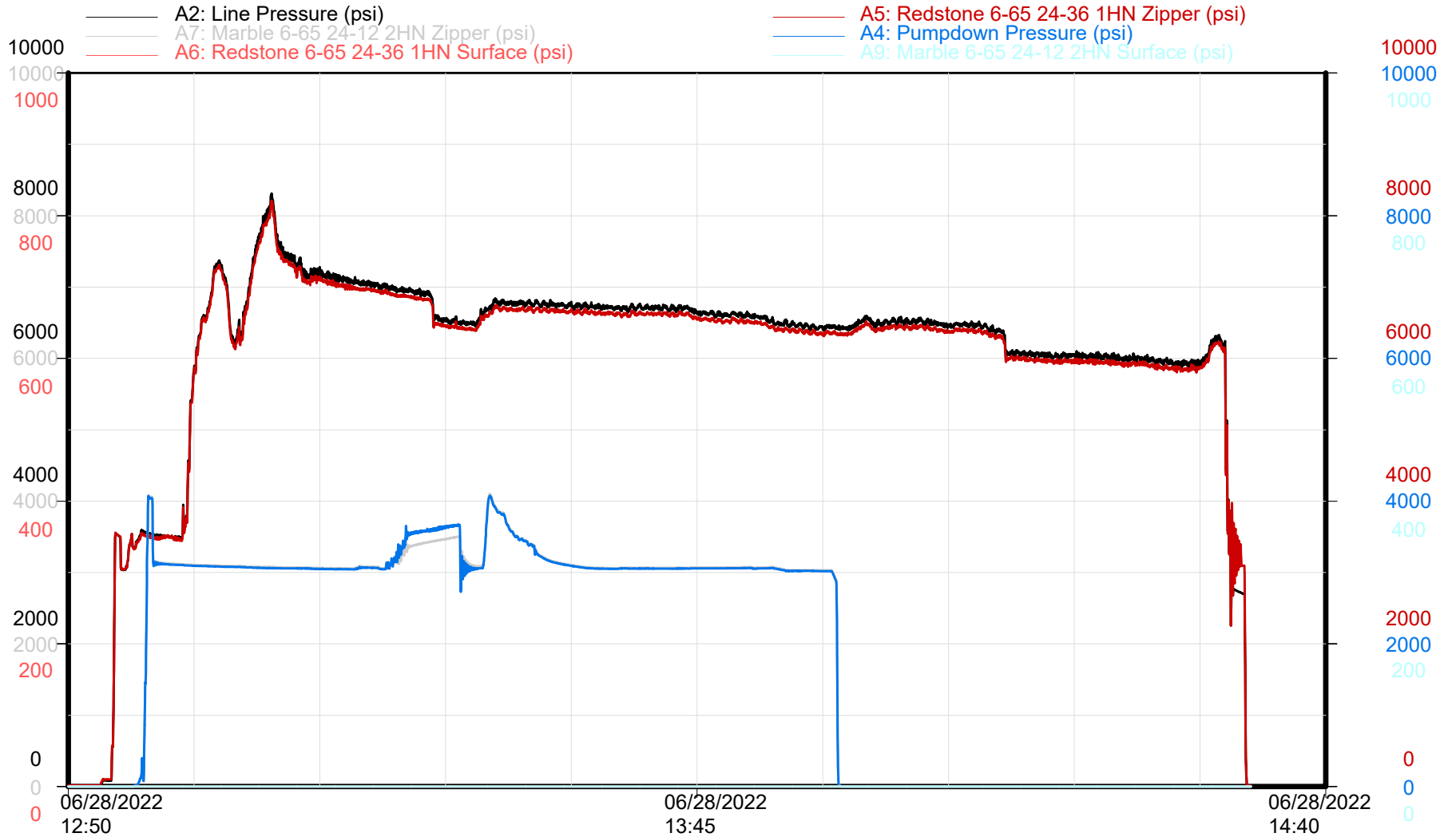
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 53



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 53 of 60



Zipper Pressures

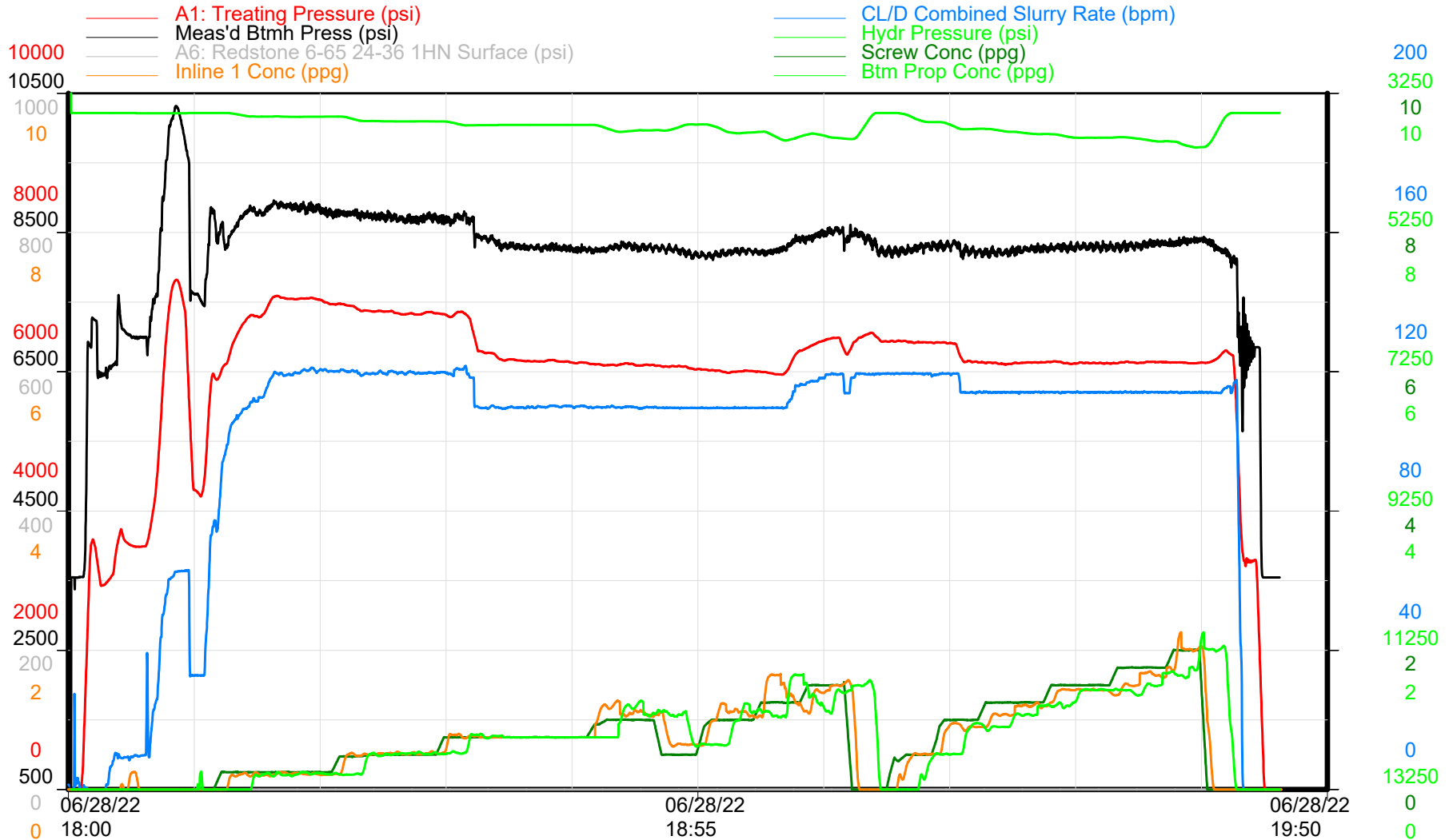
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 54

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 54 of 60



Treatment Plot

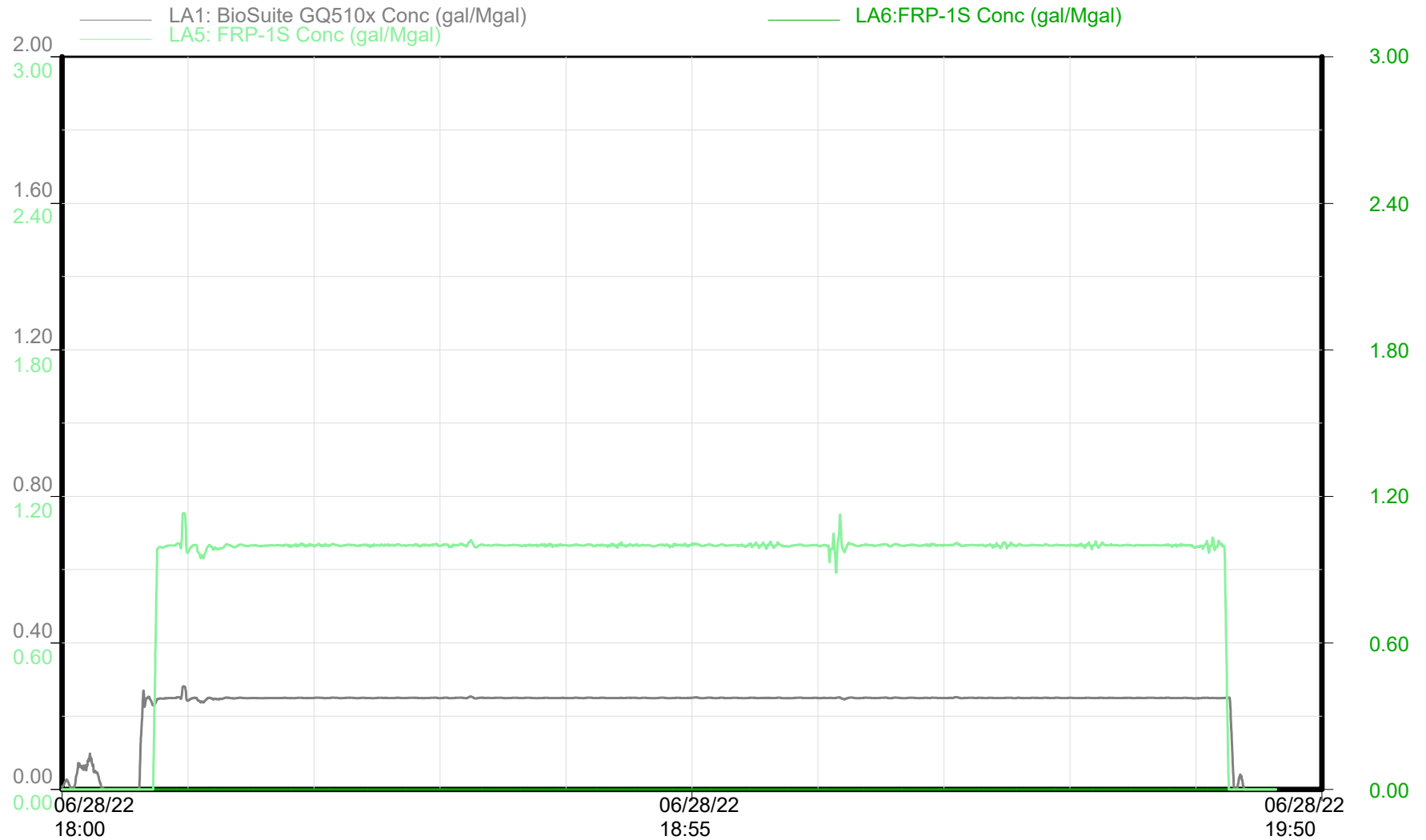
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 54 of 60



Chemical Additives

Time

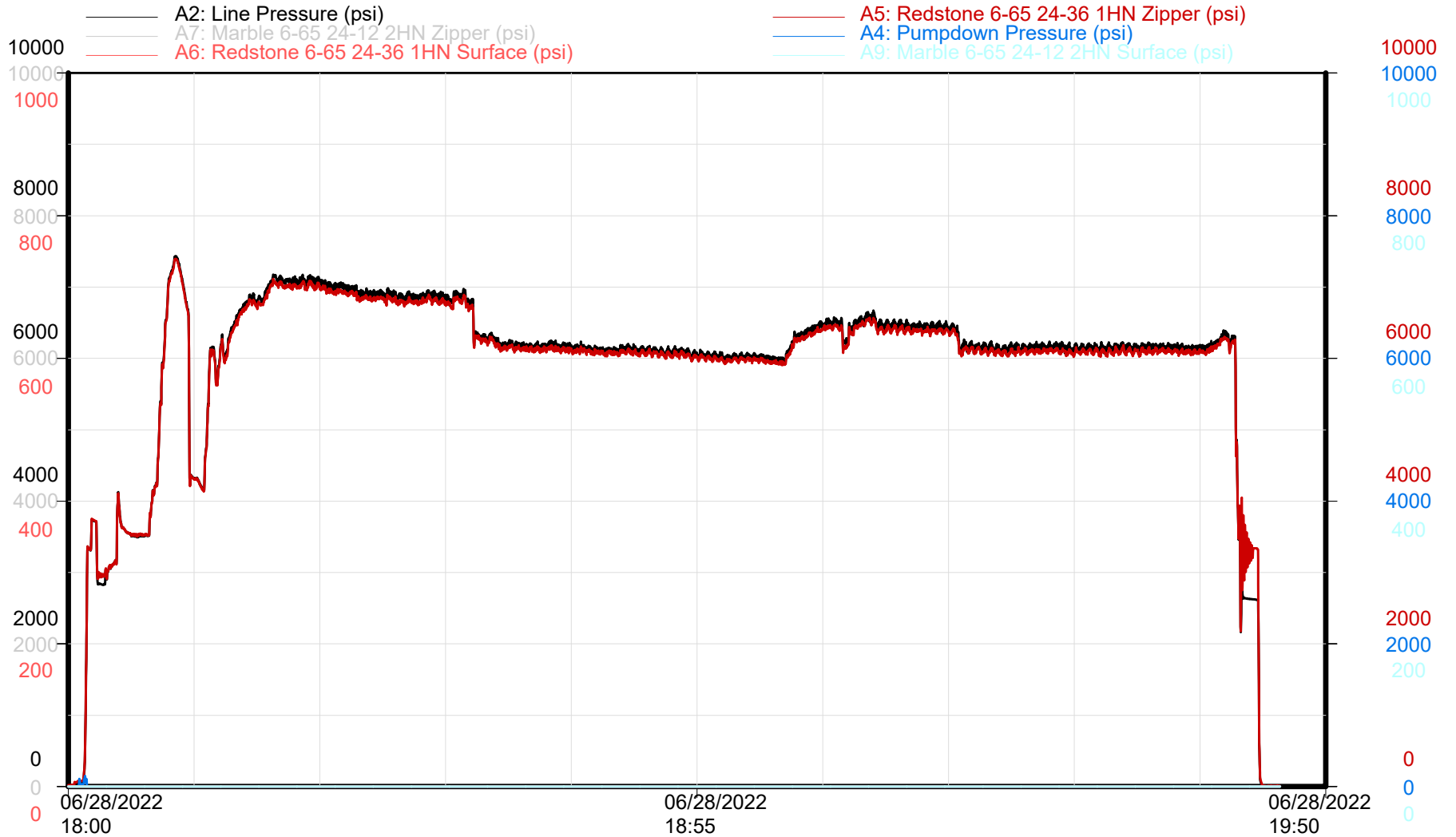
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 54



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 54 of 60



Zipper Pressures

Time

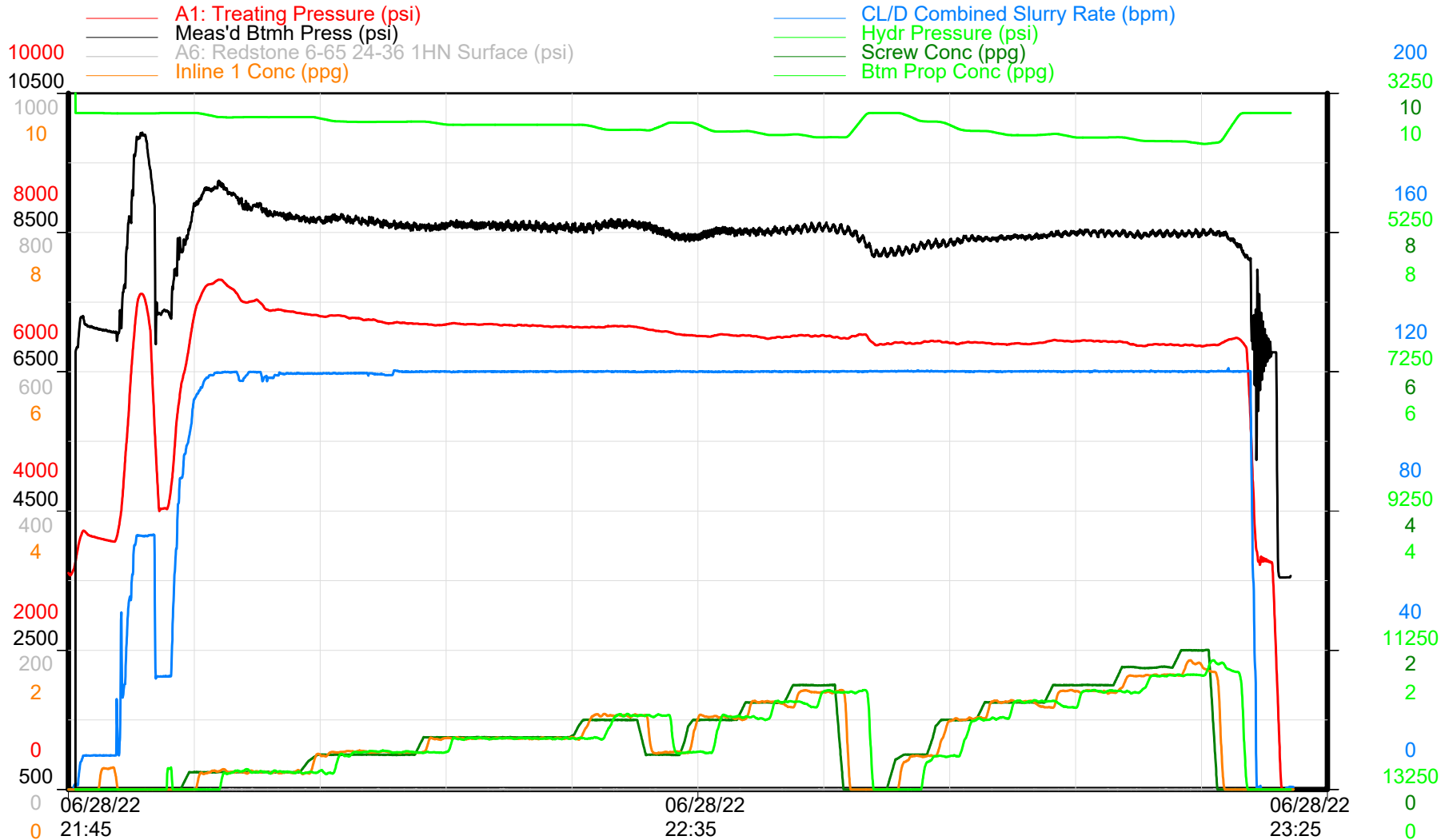
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 55



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 55 of 60



Treatment Plot

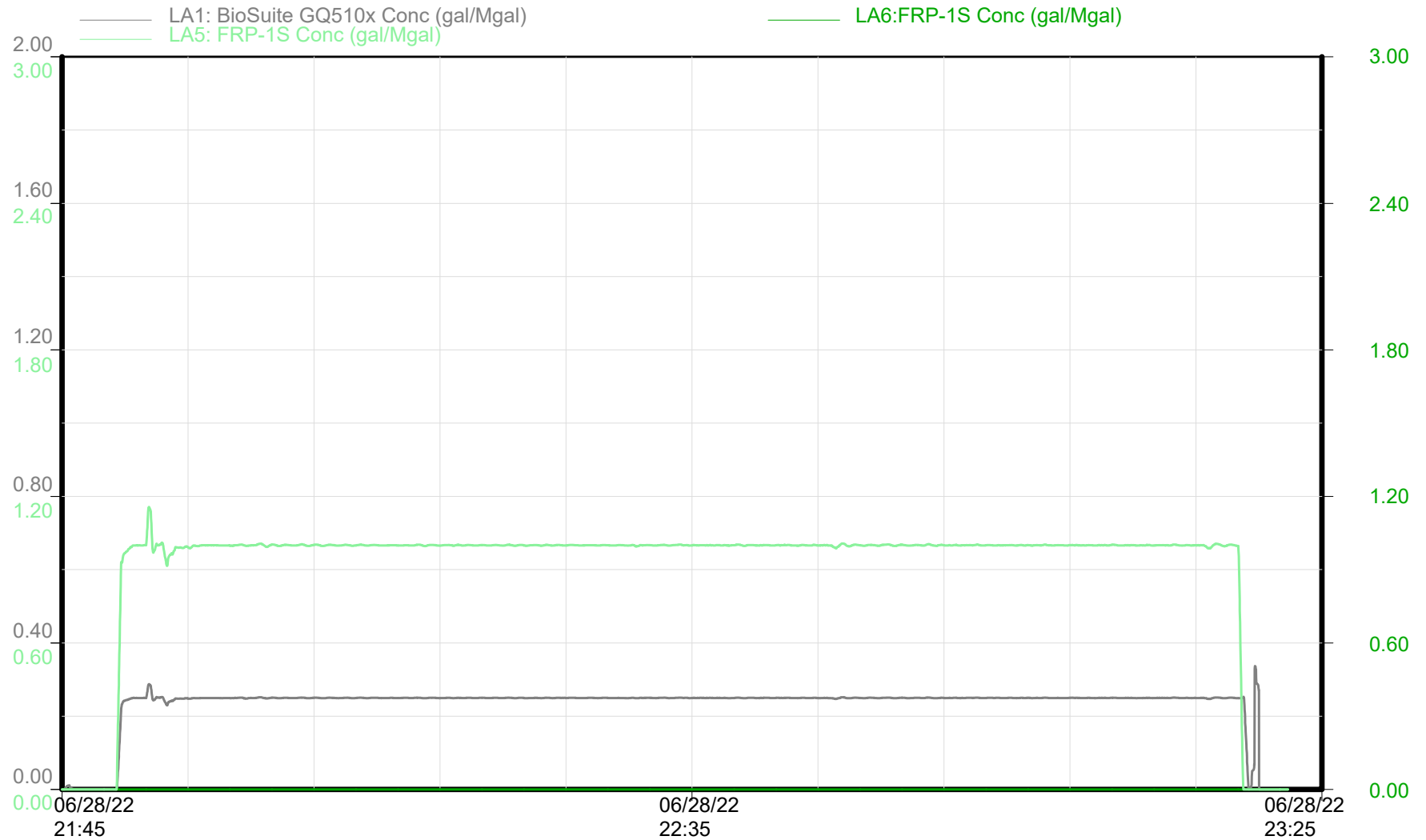
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 55 of 60



Chemical Additives

Time

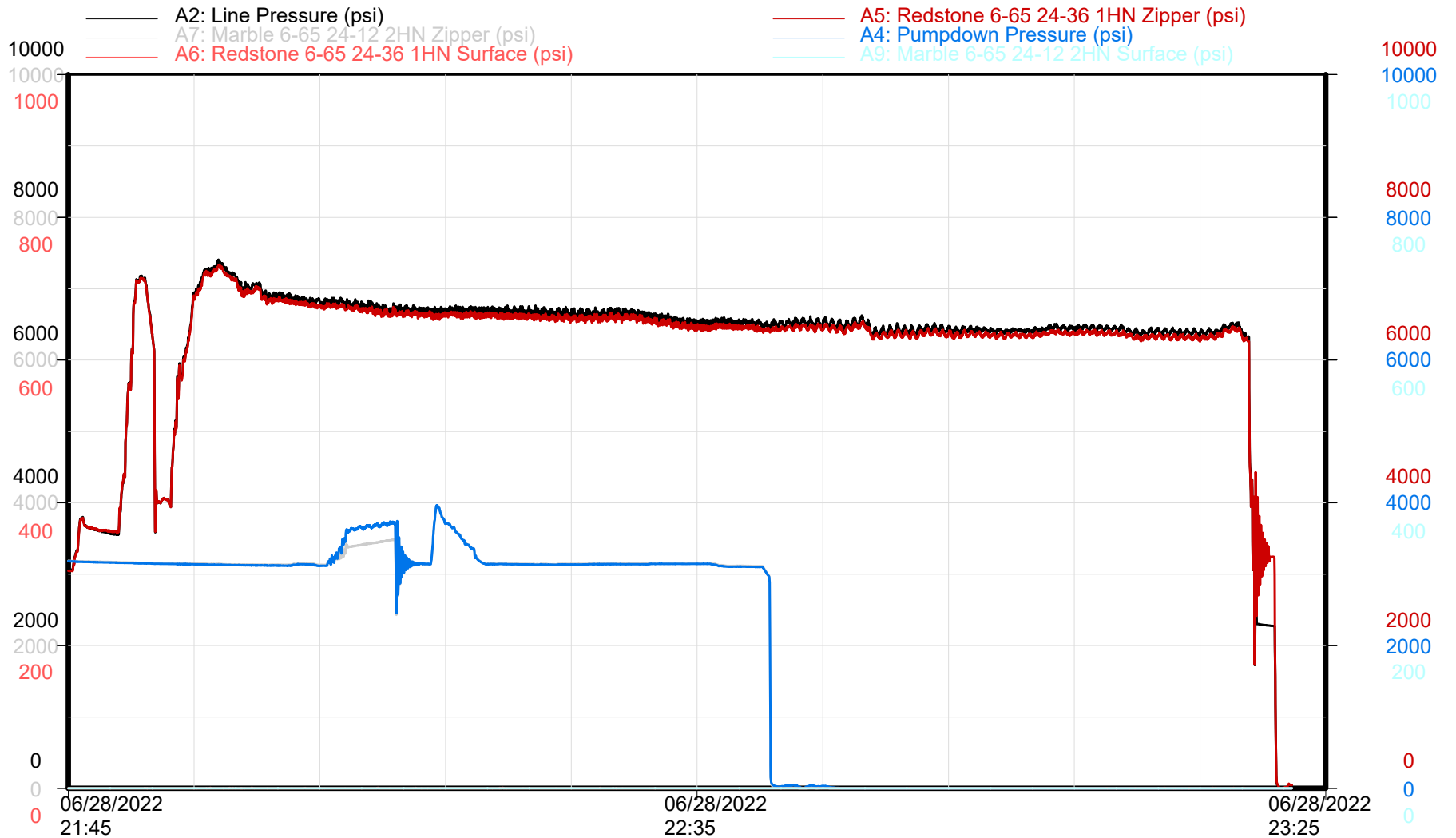
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 55



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 55 of 60



Zipper Pressures

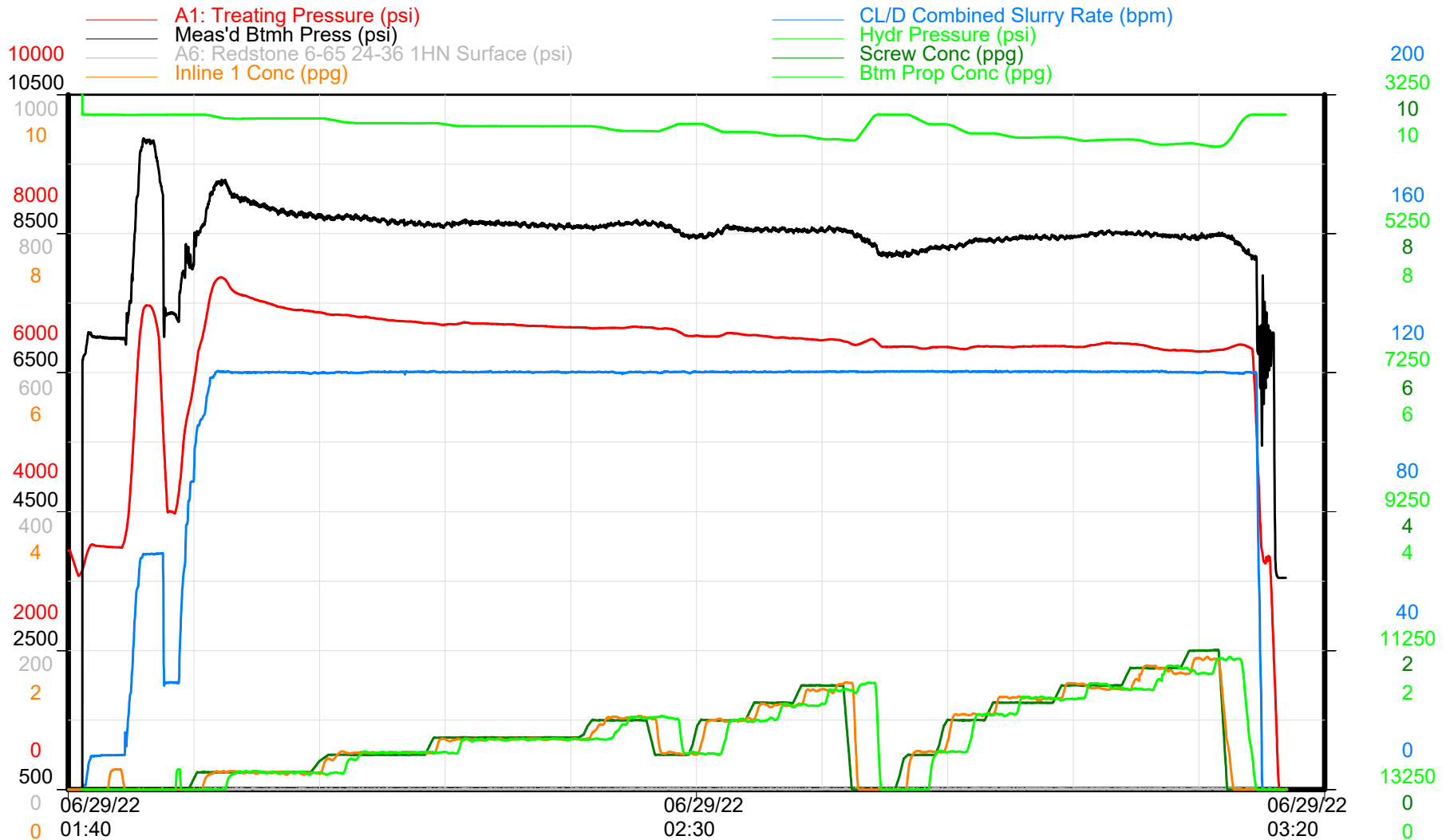
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 56

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 56 of 60



Treatment Plot

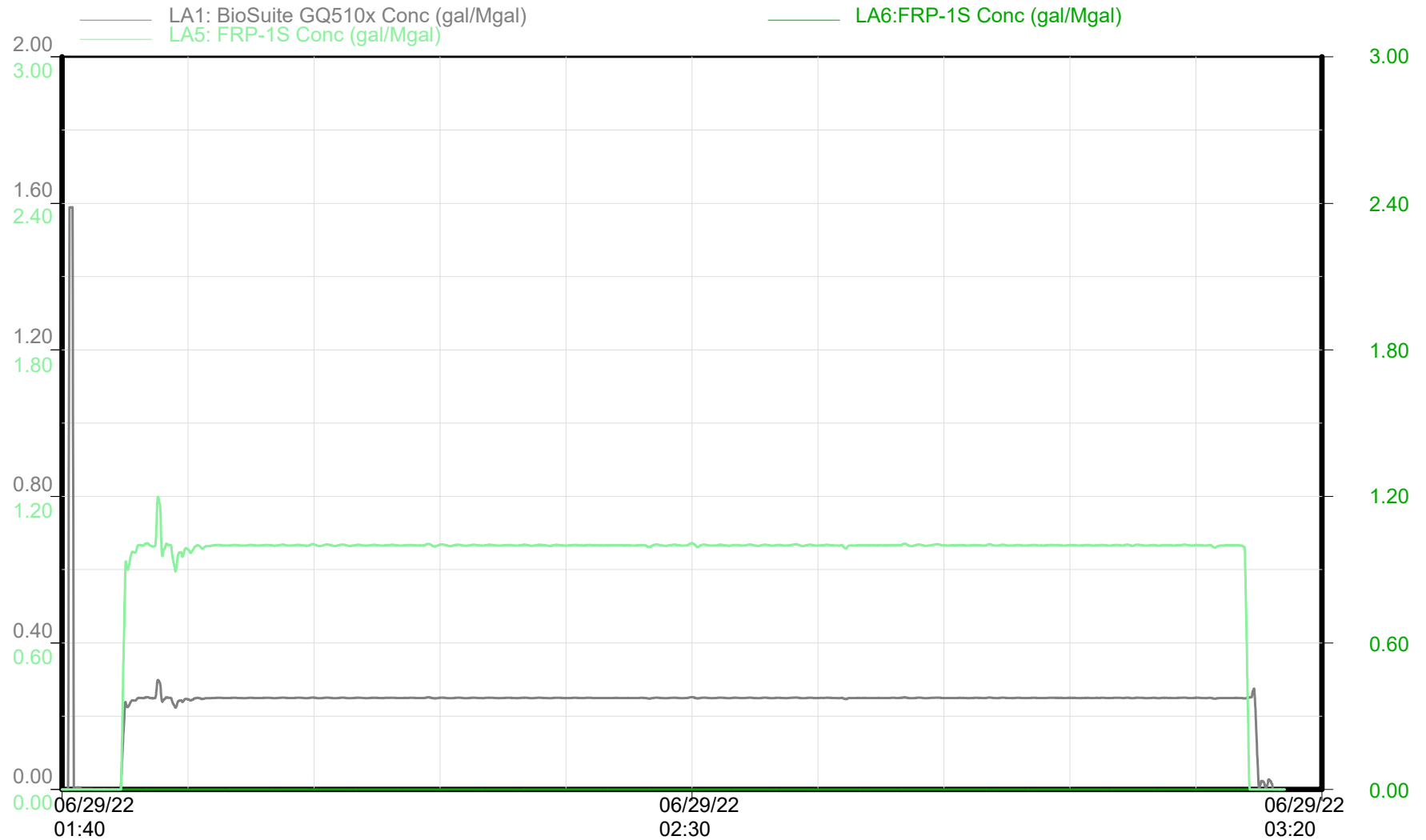
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 56 of 60



Chemical Additives

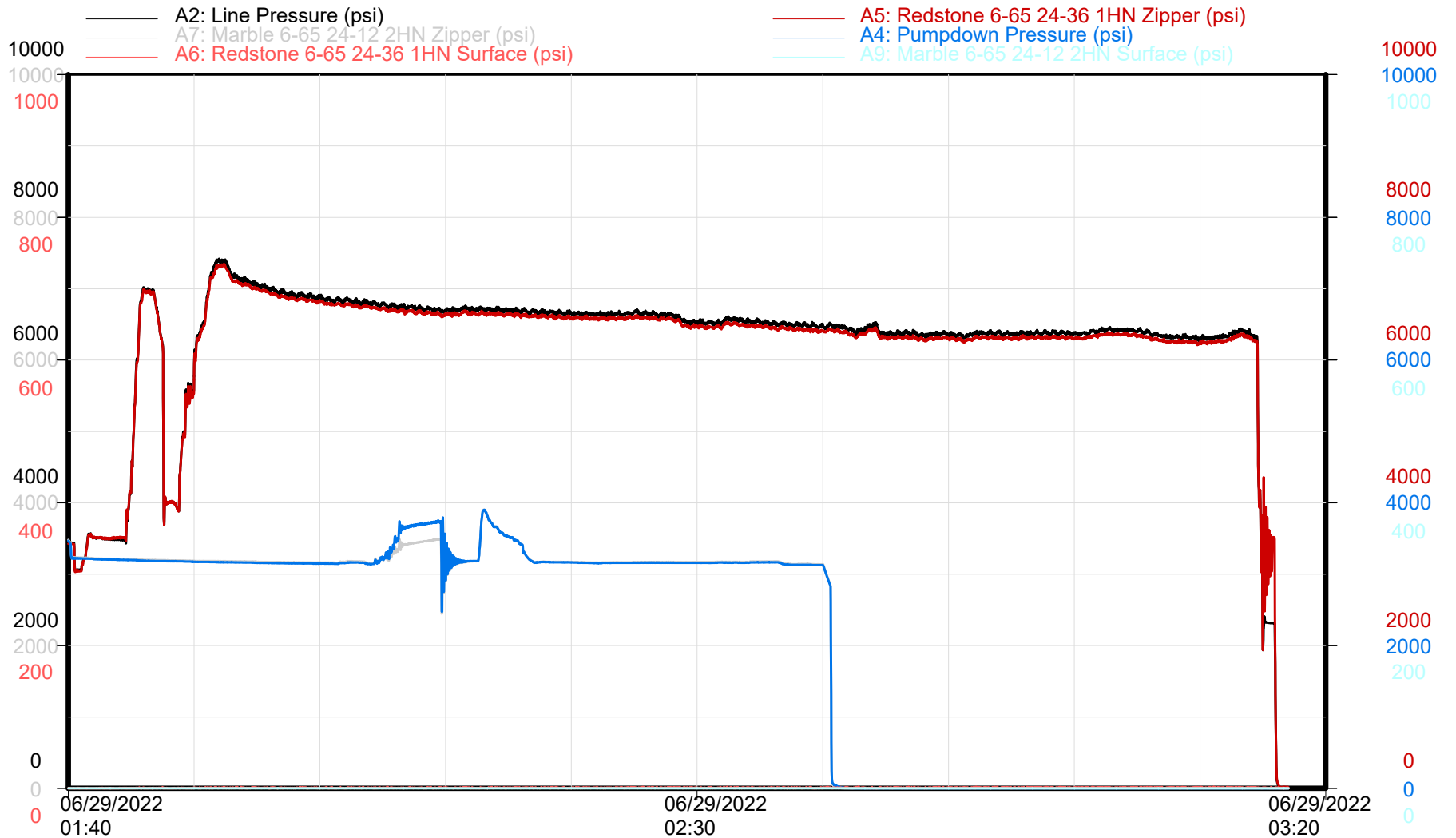
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 56



GMT - REDSTONE 6-65 24-36 1HN
Niobrara - Stage 56 of 60



Zipper Pressures

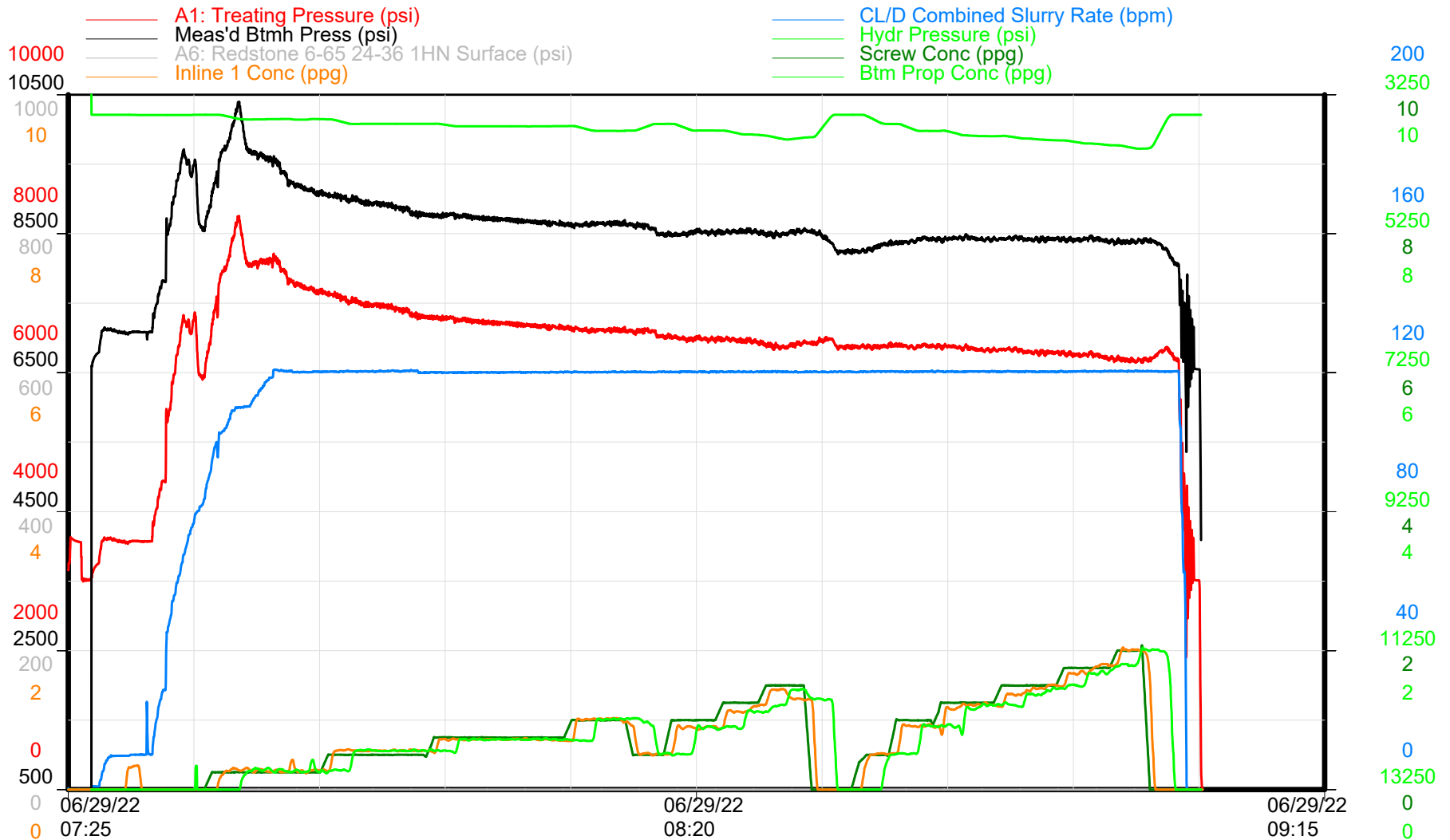
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 57

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 57 of 60



Treatment Plot

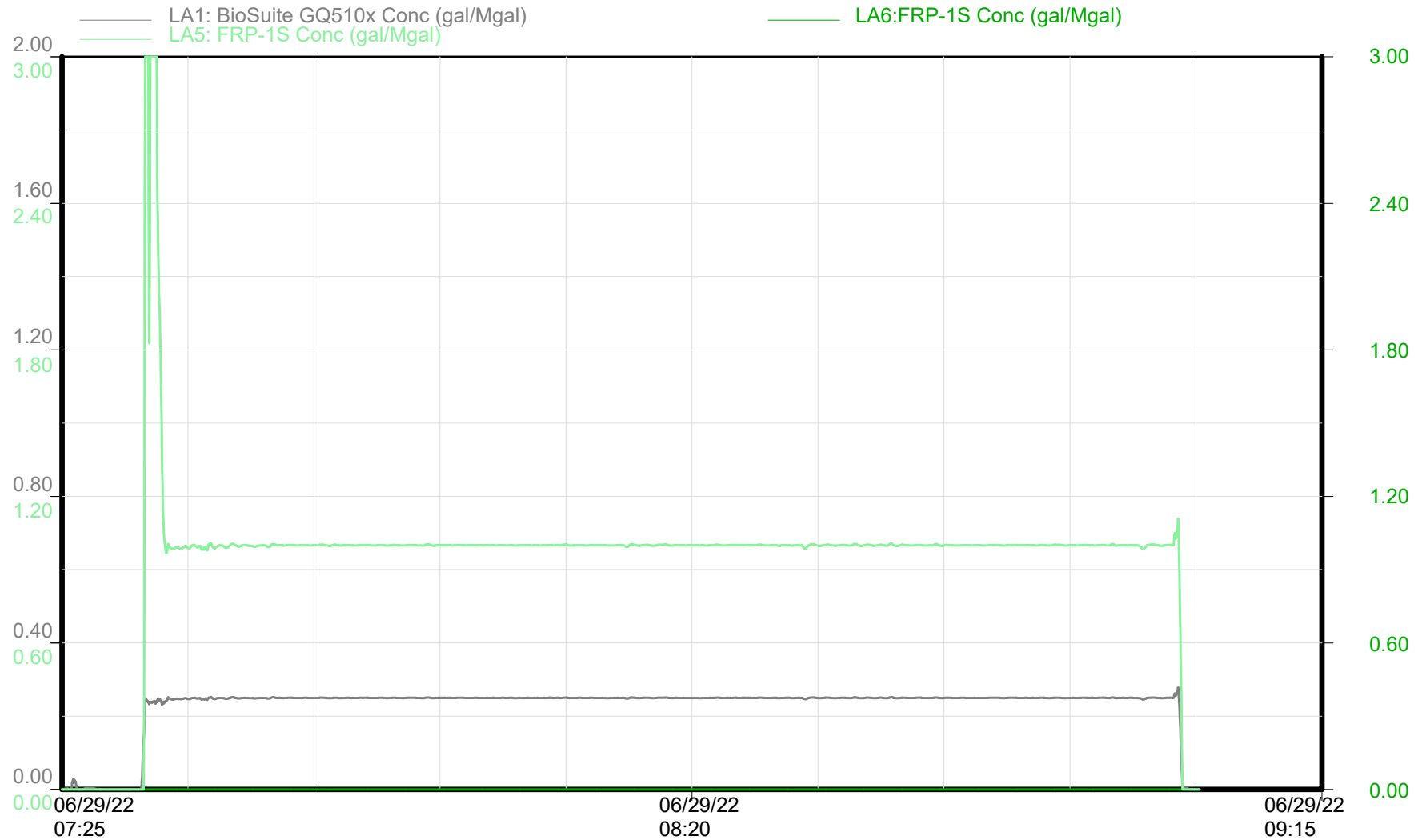
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 57 of 60



Chemical Additives

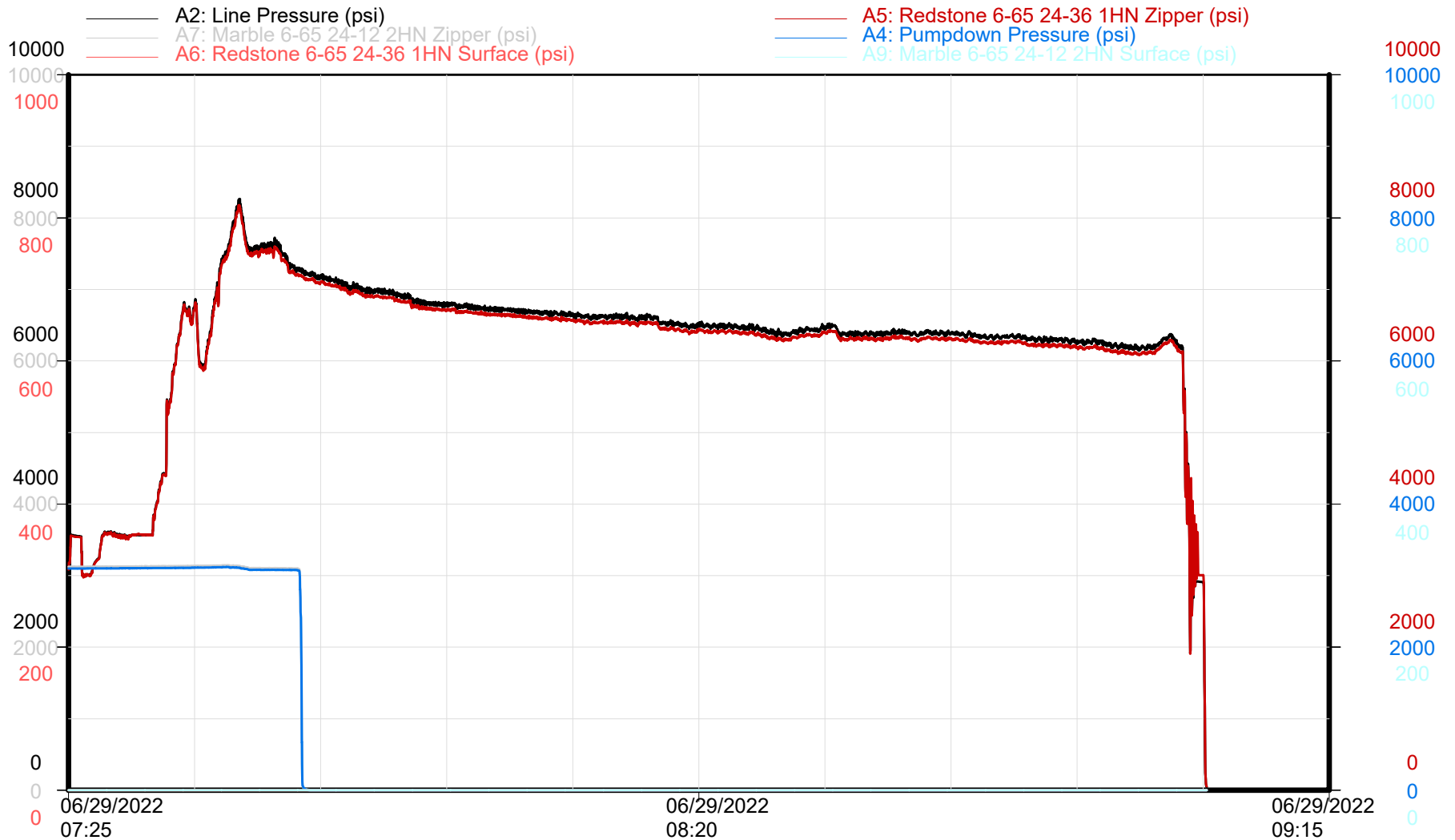
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 57



GMT - REDSTONE 6-65 24-36 1HN
Niobrara - Stage 57 of 60



Zipper Pressures

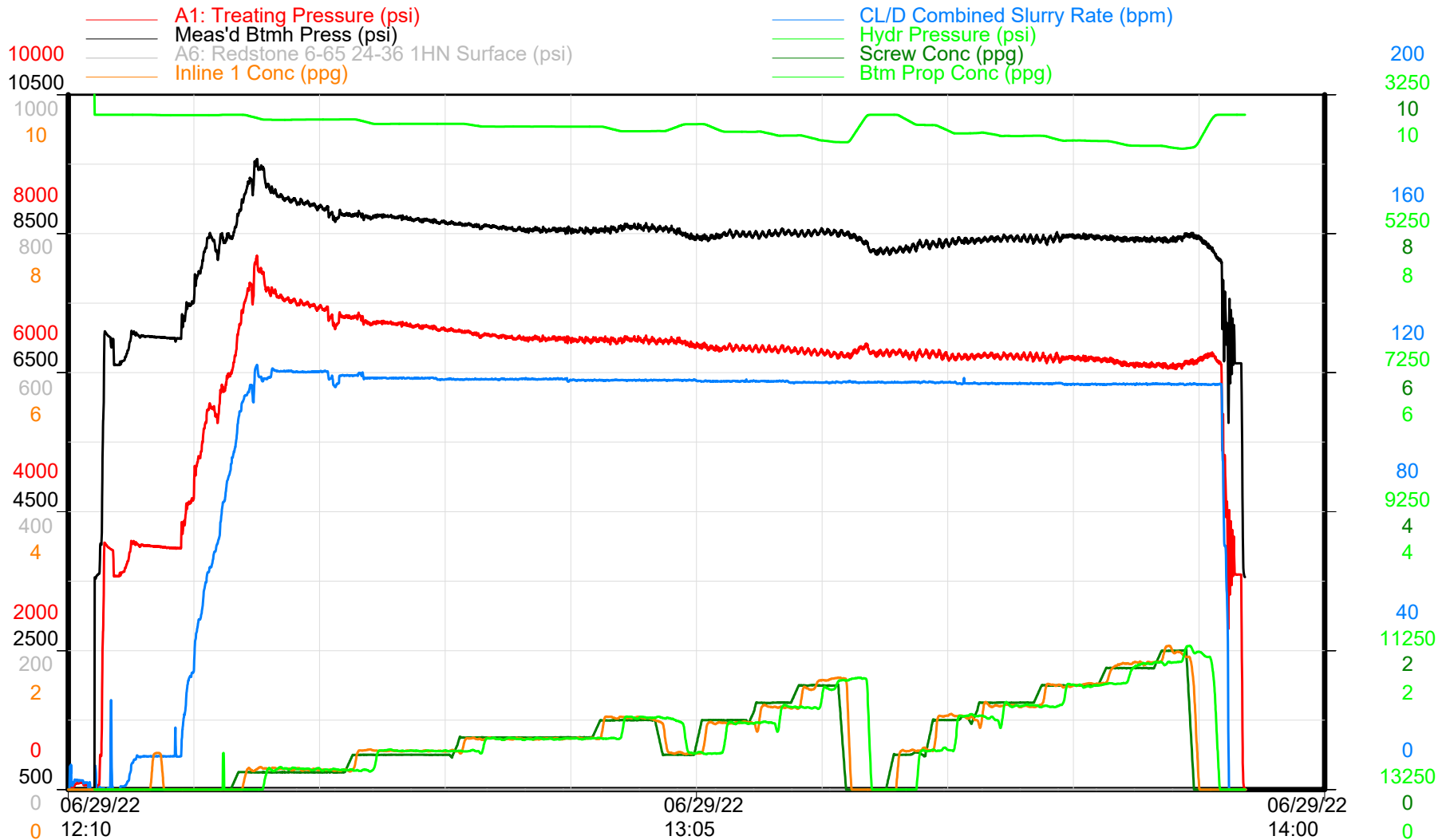
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 58

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 58 of 60



Treatment Plot

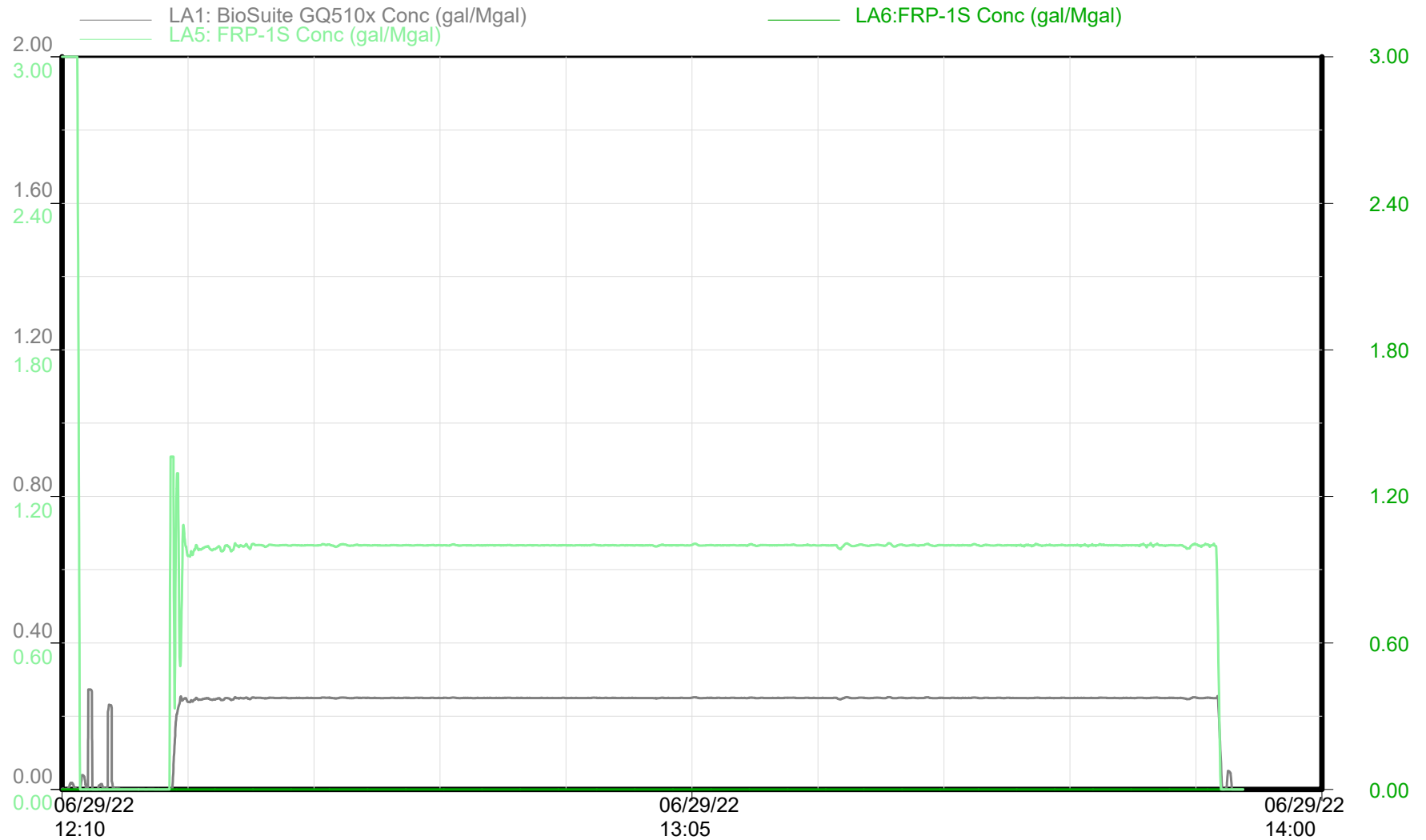
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 58 of 60



Chemical Additives

Time

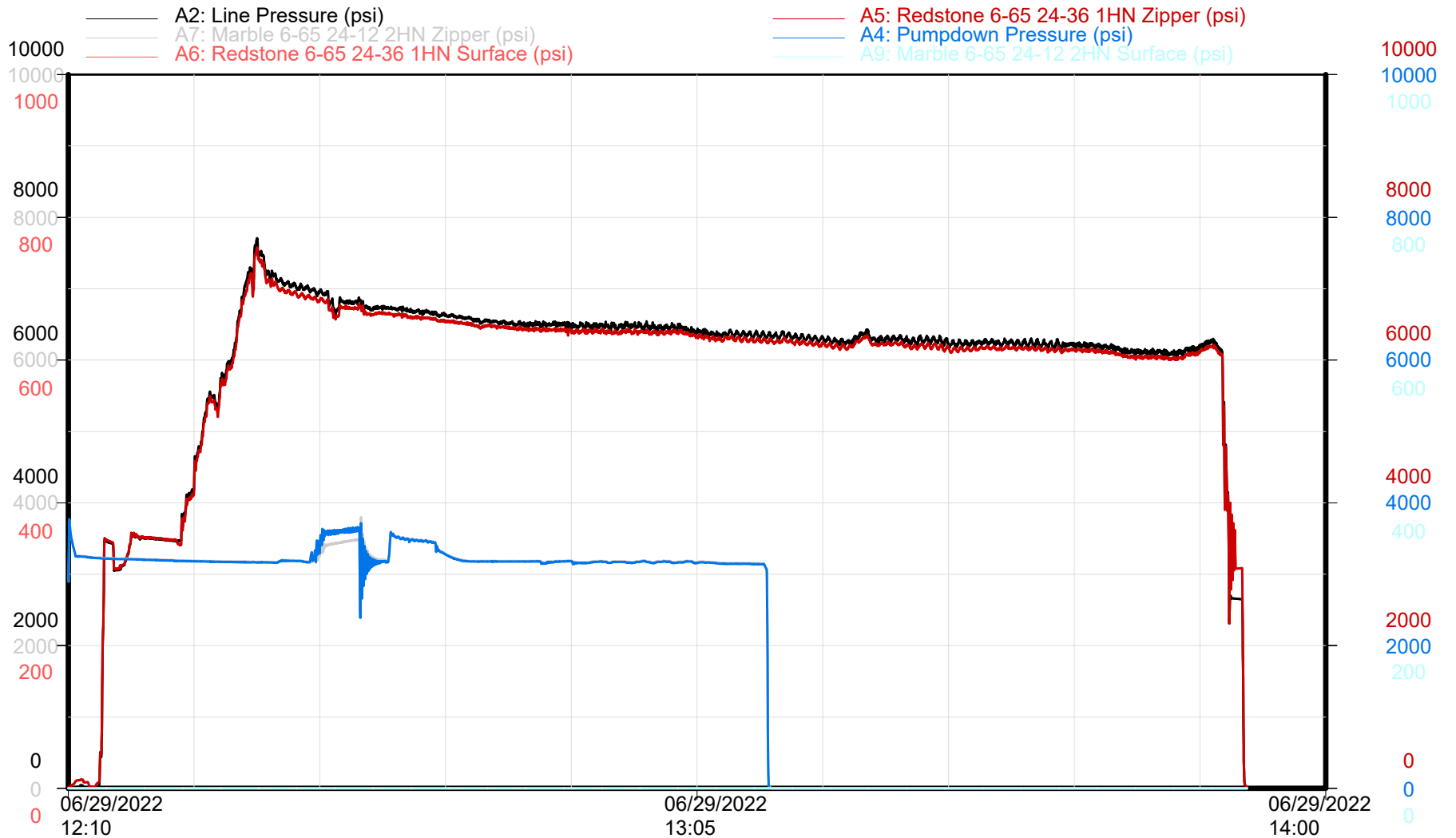
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 58



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 58 of 60



Zipper Pressures

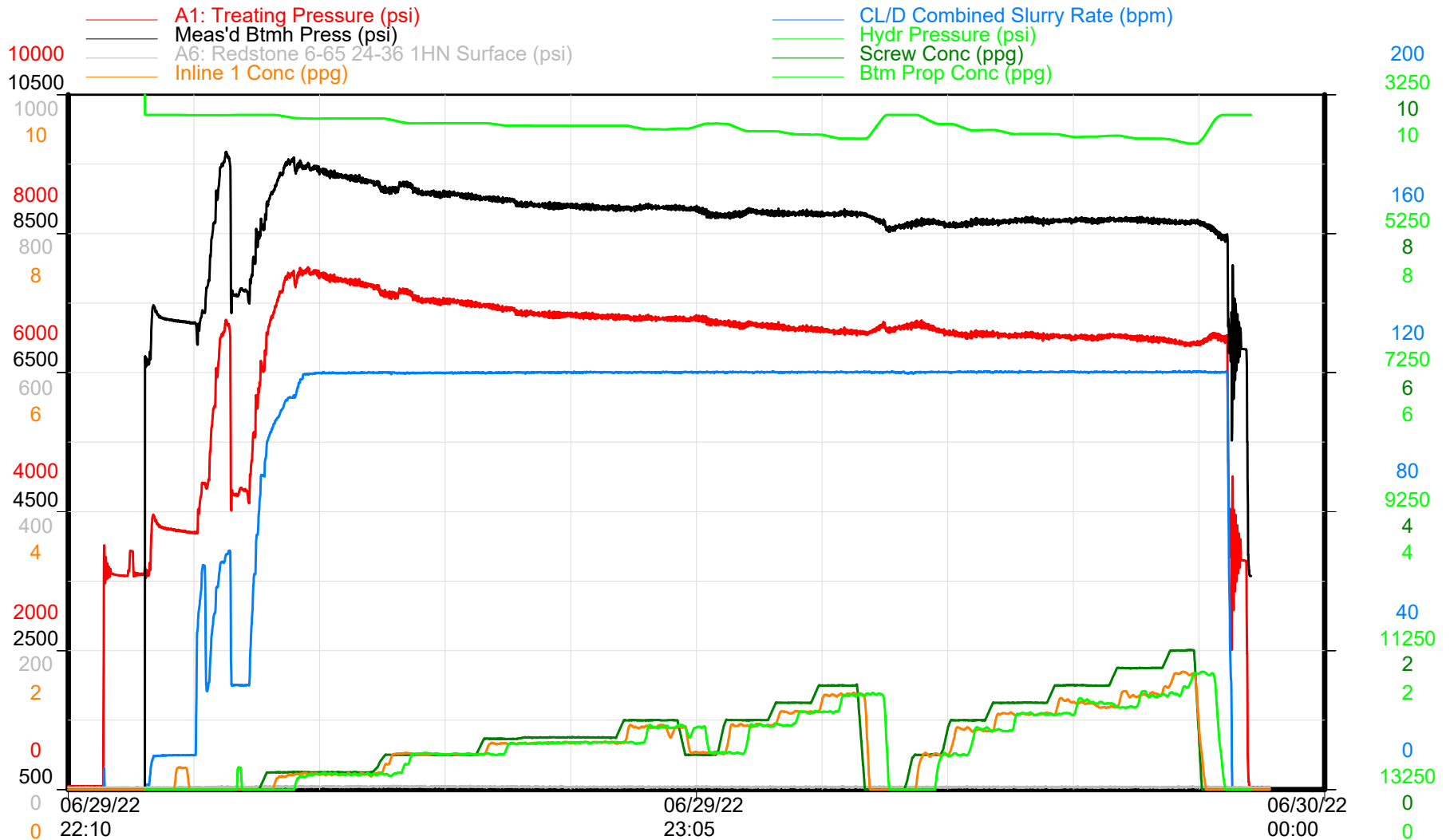
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 59

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 59 of 60



Treatment Plot

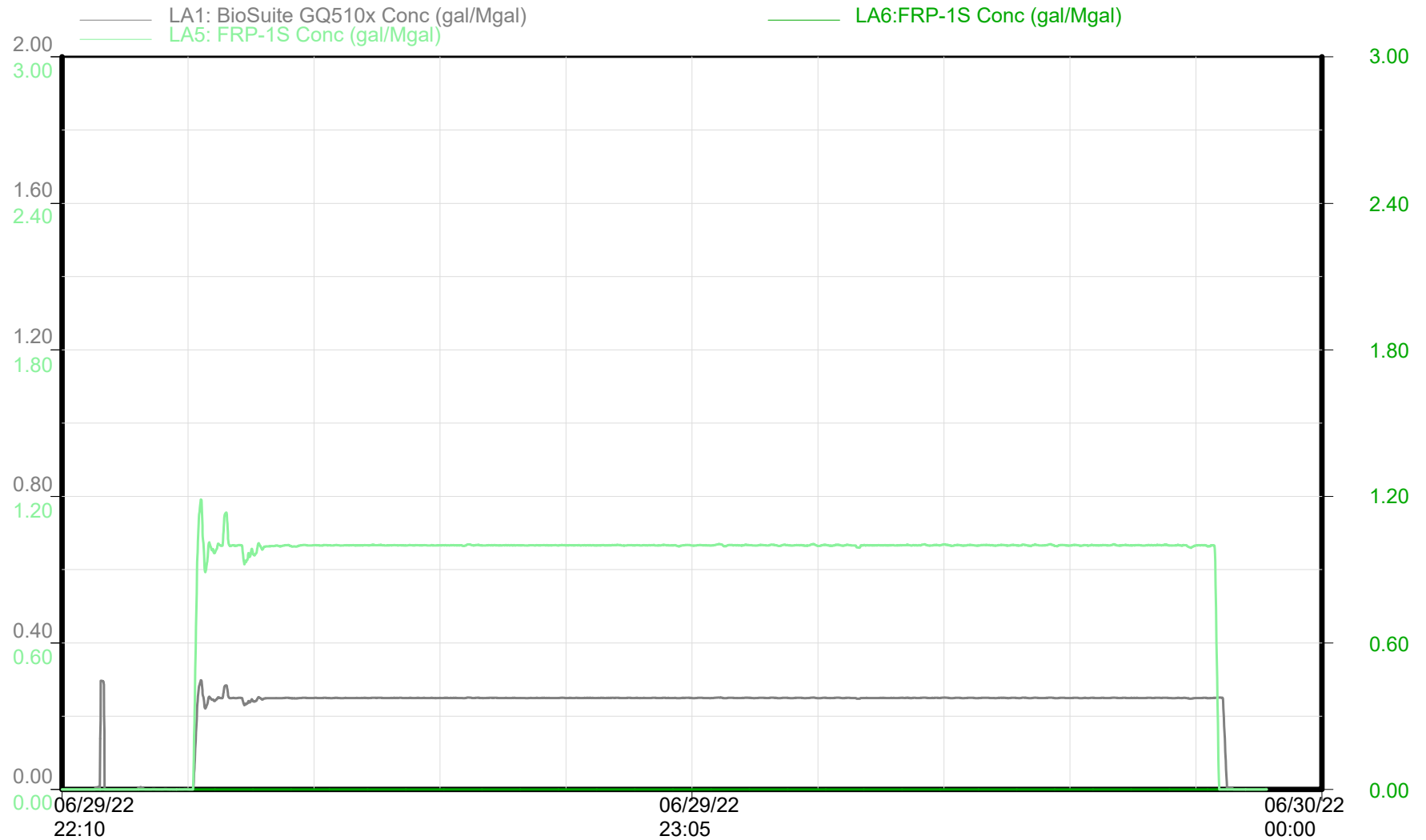
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 59 of 60



Chemical Additives

Time

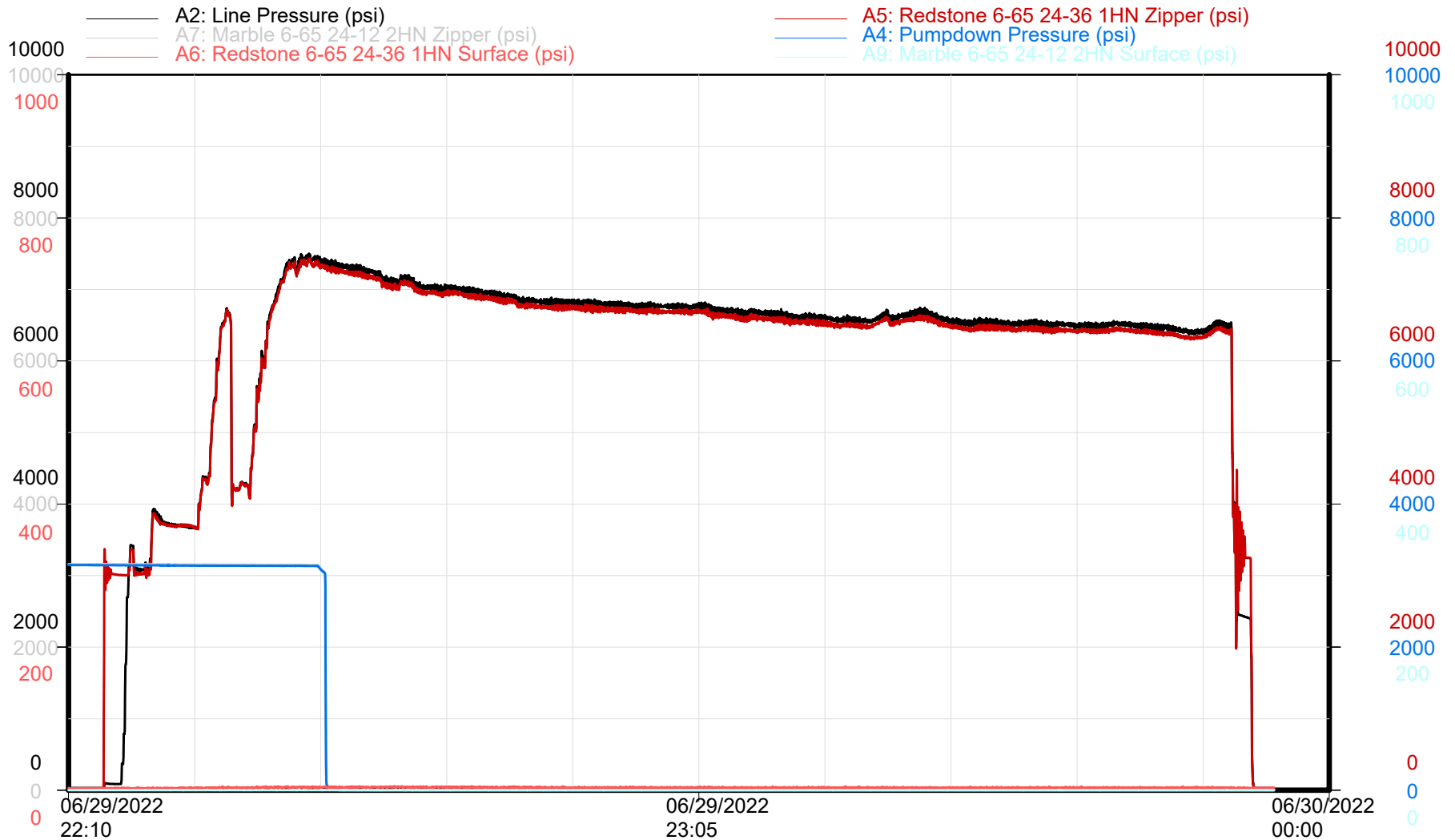
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 59



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 59 of 60



Zipper Pressures

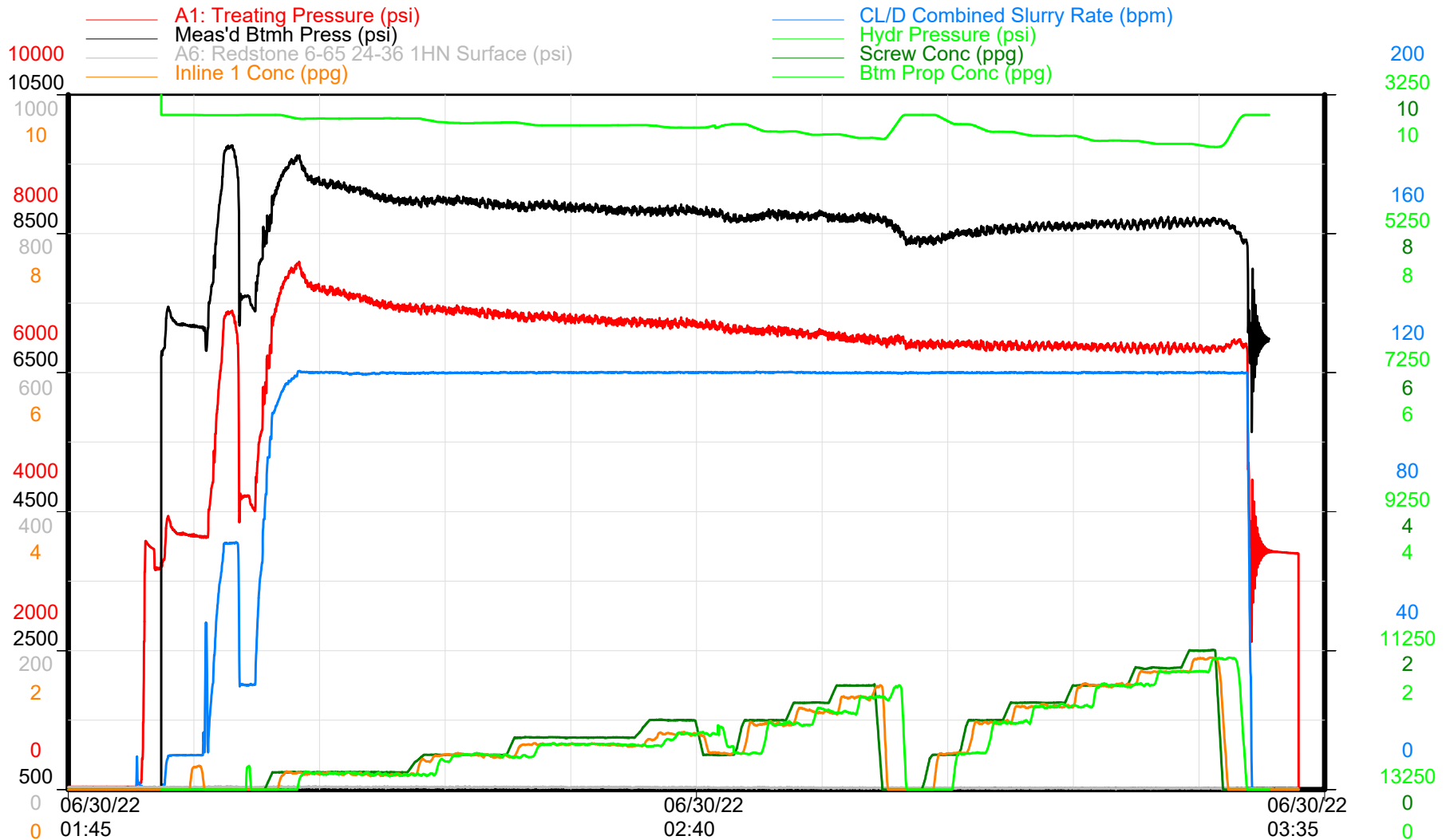
Time

Republic Crew

REDSTONE 6-65 24-36 1HN Stage 60

GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 60 of 60



Treatment Plot

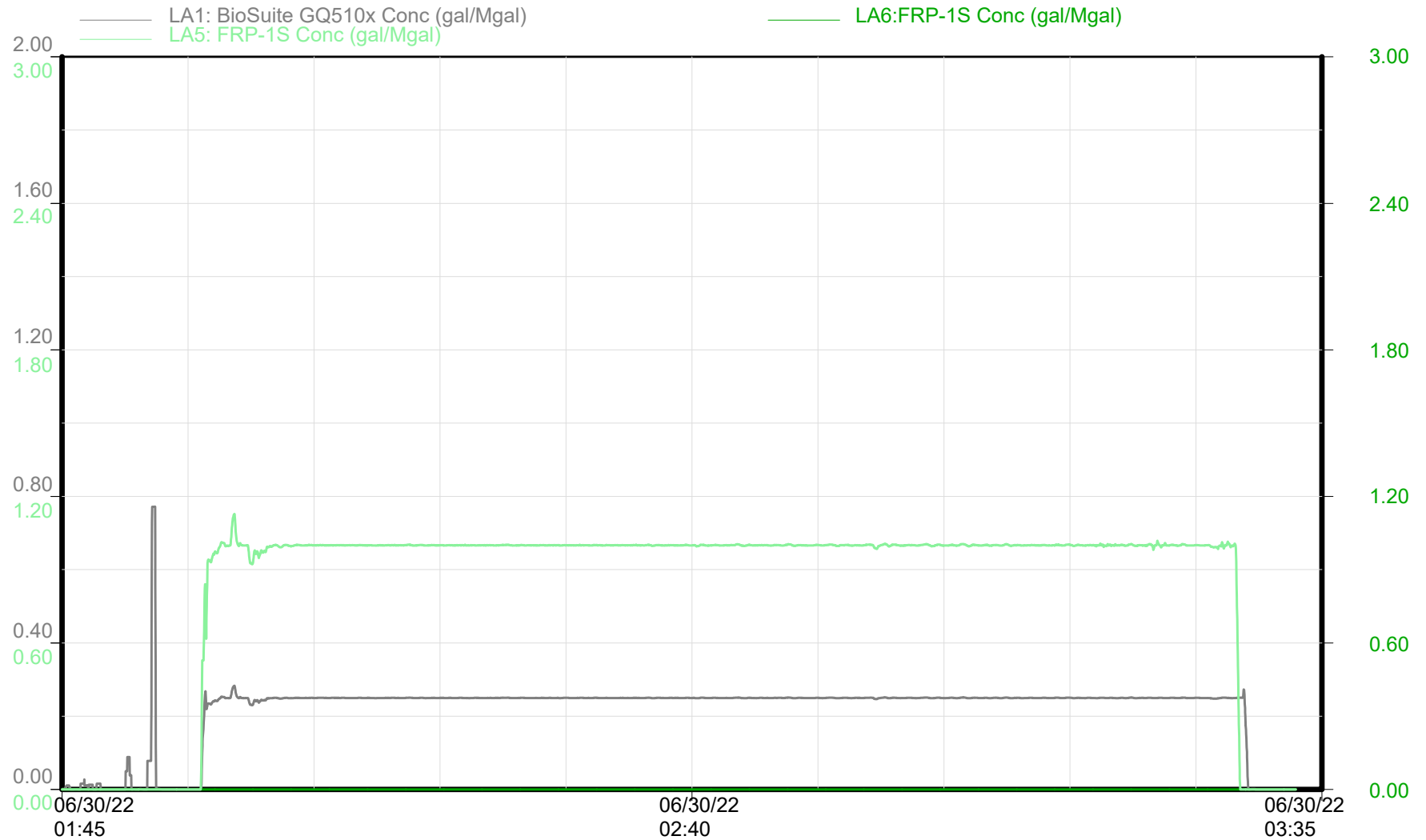
Time

Republic Crew



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 60 of 60



Chemical Additives

Time

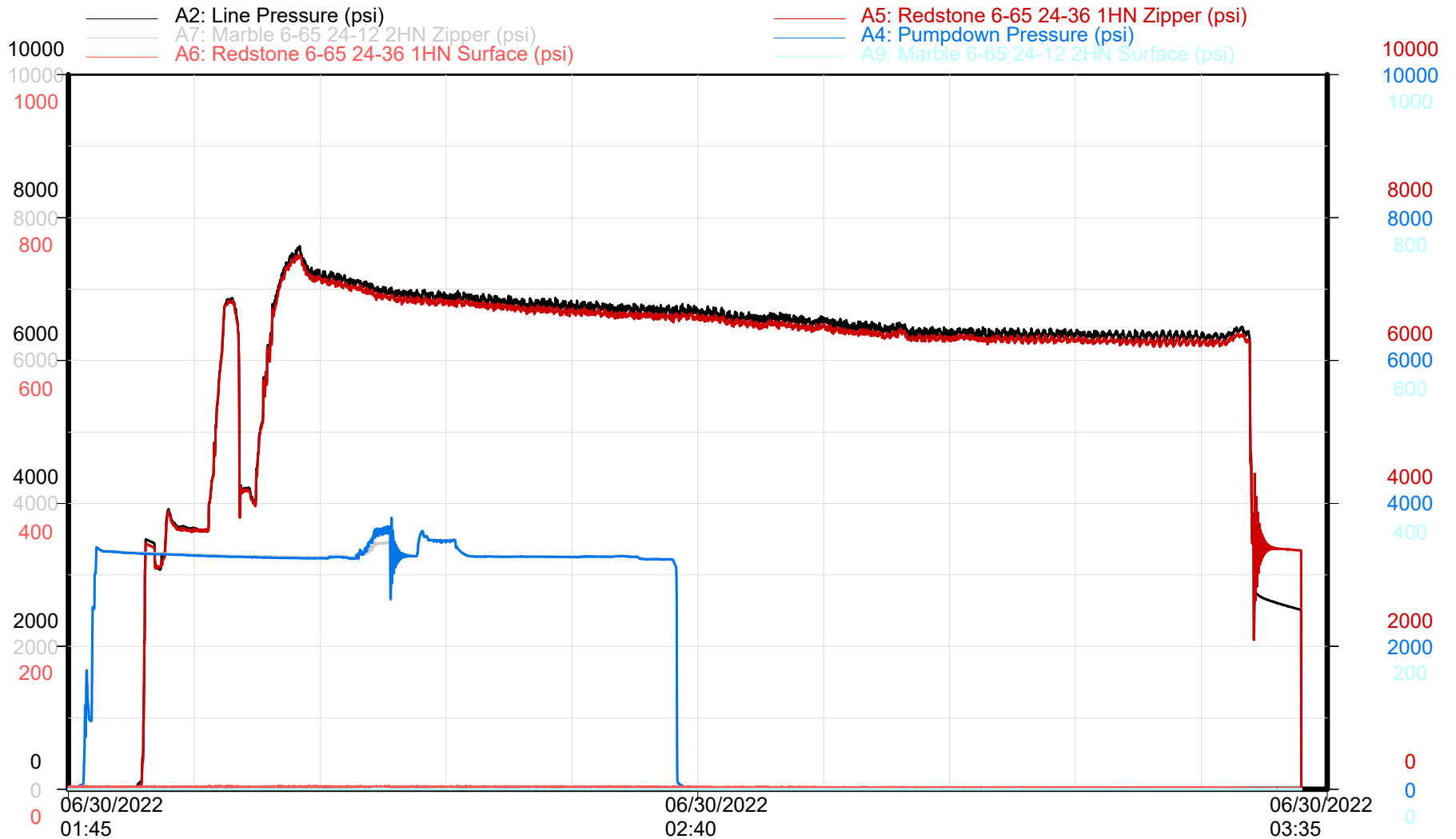
Republic Crew

REDSTONE 6-65 24-36 1HN Stage 60



GMT - REDSTONE 6-65 24-36 1HN

Niobrara - Stage 60 of 60



Zipper Pressures

Time

Republic Crew

GMT EXPLORATION

Marble / Redstone 2-Well Pad

REDSTONE 6-65 24-36 1HN

Dennis Snow

**1560 BROADWAY
DENVER, Colorado**

Proposal Number: 145891

Version Number: 1

LOS District	DJ / Henderson
LOS Sales Contact	Edwin Lynch
Proposal Generated By	Edwin Lynch
LOS Operations Contact	Jeff Brady

Field	WILDCAT
Well	REDSTONE 6-65 24-36 1HN
API	0503906703
Well Location	06S 65W 24 NESW
Well Coordinates	39.510619, -104.61793
County, State	Elbert, Colorado

Completion Type	Plug and Perf Zipper
Formation	NIOBRARA
Number of Stages	60
Main Fluid Type	HCFR

Formation: Niohrara

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volum	Proppant			Additive Concentrations					
									Design	Design Cumulative	Design (CALC'D)	Stage Design	Cumulative Stage Design	Cumulative Job Design	HCL-28	ACI-97	ASF-67	BioSuite GQ510x	FRP-1S	SpearPoint - WL	
1	1	1	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0			0	Gal	GPT	GPT	GPT	GPT	Gal	
	2	2	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00	0.25	0.80		
	3	3	Pad	LibertyFR			120	24,000	571.4	714.3	571.4							0.25	0.80		
	4	4	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	11,250				0.25	0.80		
	5	5	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	33,750				0.25	0.80		
	6	6	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	78,750				0.25	0.80		
	7	7	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	104,700				0.25	0.80		
	8	8	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	113,000				0.25	0.80		
	9	9	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	135,000				0.25	0.80		
	10	10	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	157,500				0.25	2.00		
	11	11	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	186,000				0.25	2.00		
	12	12	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2							0.25	0.80		
	13	13	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	194,300				0.25	0.80		
	14	14	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	213,300				0.25	0.80		
	15	15	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	245,800				0.25	2.00		
	16	16	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	284,800				0.25	2.00		
	17	17	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	323,300				0.25	2.00		
	18	18	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	349,000				0.25	2.00		
	19	19	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0							0.25	0.80		
	20	20	Shut Down																		
2	1	21	Pump Down	Treated Water																	
	2	22	Shut Down																		
	3	23	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0							0.25	0.80		
	4	24	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	25	Pad	LibertyFR			120	24,000	571.4	714.3	571.4							0.25	0.80		
	6	26	PLF	LibertyFR	100 Mesh																

Formation: Niohrara

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

Max Pressure

Max HHP

intervals; bu

API: 05-039-06703

9,500 psi

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design SLurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volun	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
4	1	65	Pump Down	Treated Water																	
	2	66	Shut Down																		
	3	67	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	68	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8					252.00	2.00	2.00			
	5	69	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	70	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	1,058,250					0.25	0.80	
	7	71	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	1,080,750					0.25	0.80	
	8	72	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	1,125,750					0.25	0.80	
	9	73	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	1,151,700					0.25	0.80	
	10	74	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	1,160,000					0.25	0.80	
	11	75	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	1,182,000					0.25	0.80	
	12	76	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	1,204,500					0.25	2.00	
	13	77	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	1,233,000					0.25	2.00	
	14	78	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	79	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	1,241,300					0.25	0.80	
	16	80	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	1,260,300					0.25	0.80	
	17	81	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	1,292,800					0.25	2.00	
	18	82	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	1,331,800					0.25	2.00	
	19	83	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	1,370,300					0.25	2.00	
	20	84	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	1,396,000					0.25	2.00	
	21	85	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	86	Shut Down																		
5	1	87	Pump Down	Treated Water																	
	2	88	Shut Down																		
	3	89	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0										

Formation: Niohrara

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

[illegible]

Formation: Niobrara

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure
9.500 psi

Max HHP
27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volun	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
10	1	197	Pump Down	Treated Water																	
	2	198	Shut Down																		
	3	199	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	200	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8					252.00	2.00	2.00			
	5	201	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	202	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	3,152,250					0.25	0.80	
	7	203	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	3,174,750					0.25	0.80	
	8	204	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	3,219,750					0.25	0.80	
	9	205	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	3,245,700					0.25	0.80	
	10	206	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	3,254,000					0.25	0.80	
	11	207	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	3,276,000					0.25	0.80	
	12	208	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	3,298,500					0.25	2.00	
	13	209	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	3,327,000					0.25	2.00	
	14	210	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	211	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	3,335,300					0.25	0.80	
	16	212	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	3,354,300					0.25	0.80	
	17	213	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	3,386,800					0.25	2.00	
	18	214	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	3,425,800					0.25	2.00	
	19	215	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	3,464,300					0.25	2.00	
	20	216	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	3,490,000					0.25	2.00	
	21	217	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	218	Shut Down																		
11	1	219	Pump Down	Treated Water																	
	2	220	Shut Down																		
	3	221	Establish Rate	LibertyFR			10	5,000	119.0	119.0											

Formation: Niobrara

LIBERTY

intervals; bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volun	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
13	1	263	Pump Down	Treated Water																	
	2	264	Shut Down																		
	3	265	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	266	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00		0.25	0.80	
	5	267	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	268	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	4,199,250					0.25	0.80	
	7	269	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	4,221,750					0.25	0.80	
	8	270	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	4,266,750					0.25	0.80	
	9	271	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	4,292,700					0.25	0.80	
	10	272	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	4,301,000					0.25	0.80	
	11	273	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	4,323,000					0.25	0.80	
	12	274	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	4,345,500					0.25	2.00	
	13	275	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	4,374,000					0.25	2.00	
	14	276	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	277	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	4,382,300					0.25	0.80	
	16	278	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	4,401,300					0.25	0.80	
	17	279	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	4,433,800					0.25	2.00	
	18	280	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	4,472,800					0.25	2.00	
	19	281	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	4,511,300					0.25	2.00	
	20	282	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	4,537,000					0.25	2.00	
	21	283	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	284	Shut Down																		
14	1	285	Pump Down	Treated Water																	
	2	286	Shut Down																		
	3	287	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	288	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00		0.25	0.80	
	5	289	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	290	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	4,548,250					0.25	0.80	
	7	291	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	4,570,750					0.25	0.80	
	8	292	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	4,615,750					0.25	0.80	
	9	293	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	4,641,700					0.25	0.80	
	10	294	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	4,650,000					0.25	0.80	
	11	295	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	4,672,000					0.25	0.80	
	12	296	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	4,694,500					0.25	2.00	
	13	297	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	4,723,000					0.25	2.00	
	14	298	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	299	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	4,731,300					0.25	0.80	
	16	300	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	4,750,300					0.25	0.80	
	17	301	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	4,782,800					0.25	2.00	
	18	302	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	4,821,800					0.25	2.00	
	19	303	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	4,860,300					0.25	2.00	
	20	304	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	4,886,000					0.25	2.00	
	21	305	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	306	Shut Down																		
15	1	307	Pump Down	Treated Water																	
	2	308	Shut Down																		
	3	309	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	310	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00		0.25	0.80	
	5	311	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	312	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	4,897,250					0.25	0.80	
	7	313	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	4,919,750					0.25	0.80	
	8	314	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	4,964,750					0.25	0.80	
	9	315	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	4,990,700					0.25	0.80	
	10	316	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	4,999,000					0.25	0.80	
	11	317	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	5,021,000					0.25	0.80	
	12	318	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	5,043,500					0.25	2.00	
	13	319	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	5,072,000					0.25	2.00	
	14	320	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	321	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	5,080,300					0.25	0.80	
	16	322	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	5,099,300					0.25	0.80	
	17	323	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	5,131,800					0.25	2.00	
	18	324	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	5,170,800					0.25	2.00	
	19	325	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	5,209,300					0.25	2.00	
	20	326	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	5,235,000					0.25	2.00	
	21	327	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	328	Shut Down																		

Formation: Niohrara

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volum	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)	Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-15 GPT	SpearPoint - WL Gal	
16	1	329	Pump Down	Treated Water																	
	2	330	Shut Down																		
	3	331	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	332	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	333	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	334	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	5,246,250					0.25	0.80	
	7	335	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	5,268,750					0.25	0.80	
	8	336	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	5,313,750					0.25	0.80	
	9	337	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	5,339,700					0.25	0.80	
	10	338	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	5,348,000					0.25	0.80	
	11	339	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	5,370,000					0.25	0.80	
	12	340	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	5,392,500					0.25	2.00	
	13	341	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	5,421,000					0.25	2.00	
	14	342	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	343	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	5,429,300					0.25	0.80	
	16	344	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	5,448,300					0.25	0.80	
	17	345	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	5,480,800					0.25	2.00	
	18	346	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	5,519,800					0.25	2.00	
	19	347	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	5,558,300					0.25	2.00	
	20	348	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	5,584,000					0.25	2.00	
	21	349	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	350	Shut Down																			
17	1	351	Pump Down	Treated Water																	
	2	352	Shut Down																		
	3	353	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	354	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	355	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	356	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	5,595,250					0.25	0.80	
	7	357	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	5,617,750					0.25	0.80	
	8	358	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	5,662,750					0.25	0.80	
	9	359	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	5,688,700					0.25	0.80	
	10	360	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	5,697,000					0.25	0.80	
	11	361	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	5,719,000					0.25	0.80	
	12	362	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	5,741,500					0.25	2.00	
	13	363	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	5,770,000					0.25	2.00	
	14	364	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	365	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	5,778,300					0.25	0.80	
	16	366	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	5,797,300					0.25	0.80	
	17	367	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	5,829,800					0.25	2.00	
	18	368	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	5,868,800					0.25	2.00	
	19	369	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	5,907,300					0.25	2.00	
	20	370	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	5,933,000					0.25	2.00	
	21	371	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	372	Shut Down																			
18	1	373	Pump Down	Treated Water																	
	2	374	Shut Down																		
	3	375	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	376	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	377	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	378	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	5,944,250					0.25	0.80	
	7	379	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	5,966,750					0.25	0.80	
	8	380	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	6,011,750					0.25	0.80	
	9	381	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	6,037,700					0.25	0.80	
	10	382	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	6,046,000					0.25	0.80	
	11	383	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	6,068,000					0.25	0.80	
	12	384	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	6,090,500					0.25	2.00	
	13	385	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	6,119,000					0.25	2.00	
	14	386	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	387	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	6,127,300					0.25	0.80	
	16	388	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	6,146,300					0.25	0.80	
	17	389	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	6,178,800					0.25	2.00	
	18	390	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	6,217,800					0.25	2.00	
	19	391	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	6,256,300					0.25	2.00	
	20	392	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	6,282,000					0.25	2.00	
	21	393	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	394	Shut Down																			

Formation: Niohira

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure
9.500 psi

Max HHP
27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volun	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
19	1	395	Pump Down	Treated Water																	
	2	396	Shut Down																		
	3	397	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	398	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8					252.00	2.00	2.00			
	5	399	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	400	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	6,293,250					0.25	0.80	
	7	401	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	6,315,750					0.25	0.80	
	8	402	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	6,360,750					0.25	0.80	
	9	403	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	6,386,700					0.25	0.80	
	10	404	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	6,395,000					0.25	0.80	
	11	405	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	6,417,000					0.25	0.80	
	12	406	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	6,439,500					0.25	2.00	
	13	407	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	6,468,000					0.25	2.00	
	14	408	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	409	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	6,476,300					0.25	0.80	
	16	410	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	6,495,300					0.25	0.80	
	17	411	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	6,527,800					0.25	2.00	
	18	412	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	6,566,800					0.25	2.00	
	19	413	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	6,605,300					0.25	2.00	
	20	414	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	6,631,000					0.25	2.00	
	21	415	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	416	Shut Down																			
20	1	417	Pump Down	Treated Water																	
	2	418	Shut Down																		
	3	419	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0										

Formation: Niohrara

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volum	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)	Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-15 GPT	SpearPoint - WL Gal	
22	1	461	Pump Down	Treated Water																	
	2	462	Shut Down																		
	3	463	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	464	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	465	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	466	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	7,340,250					0.25	0.80	
	7	467	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	7,362,750					0.25	0.80	
	8	468	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	7,407,750					0.25	0.80	
	9	469	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	7,433,700					0.25	0.80	
	10	470	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	7,442,000					0.25	0.80	
	11	471	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	7,464,000					0.25	0.80	
	12	472	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	7,486,500					0.25	2.00	
	13	473	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	7,515,000					0.25	2.00	
	14	474	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	475	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	7,523,300					0.25	0.80	
	16	476	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	7,542,300					0.25	0.80	
	17	477	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	7,574,800					0.25	2.00	
	18	478	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	7,613,800					0.25	2.00	
	19	479	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	7,652,300					0.25	2.00	
	20	480	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	7,678,000					0.25	2.00	
	21	481	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	482	Shut Down																			
23	1	483	Pump Down	Treated Water																	
	2	484	Shut Down																		
	3	485	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	486	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	487	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	488	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	7,689,250					0.25	0.80	
	7	489	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	7,711,750					0.25	0.80	
	8	490	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	7,756,750					0.25	0.80	
	9	491	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	7,782,700					0.25	0.80	
	10	492	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	7,791,000					0.25	0.80	
	11	493	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	7,813,000					0.25	0.80	
	12	494	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	7,835,500					0.25	2.00	
	13	495	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	7,864,000					0.25	2.00	
	14	496	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	497	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	7,872,300					0.25	0.80	
	16	498	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	7,891,300					0.25	0.80	
	17	499	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	7,923,800					0.25	2.00	
	18	500	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	7,962,800					0.25	2.00	
	19	501	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	8,001,300					0.25	2.00	
	20	502	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	8,027,000					0.25	2.00	
	21	503	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	504	Shut Down																			
24	1	505	Pump Down	Treated Water																	
	2	506	Shut Down																		
	3	507	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	508	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	509	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	510	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	8,038,250					0.25	0.80	
	7	511	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	8,060,750					0.25	0.80	
	8	512	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	8,105,750					0.25	0.80	
	9	513	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	8,131,700					0.25	0.80	
	10	514	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	8,140,000					0.25	0.80	
	11	515	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	8,162,000					0.25	0.80	
	12	516	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	8,184,500					0.25	2.00	
	13	517	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	8,213,000					0.25	2.00	
	14	518	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	519	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	8,221,300					0.25	0.80	
	16	520	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	8,240,300					0.25	0.80	
	17	521	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	8,272,800					0.25	2.00	
	18	522	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	8,311,800					0.25	2.00	
	19	523	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	8,350,300					0.25	2.00	
	20	524	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	8,376,000					0.25	2.00	
	21	525	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	526	Shut Down																			

Formation: Niohira

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volun	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
25	1	527	Pump Down	Treated Water																	
	2	528	Shut Down																		
	3	529	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	530	Acid HCL-7.5				10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	531	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	532	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	8,387,250					0.25	0.80	
	7	533	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	8,409,750					0.25	0.80	
	8	534	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	8,454,750					0.25	0.80	
	9	535	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	8,480,700					0.25	0.80	
	10	536	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	8,489,000					0.25	0.80	
	11	537	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	8,511,000					0.25	0.80	
	12	538	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	8,533,500					0.25	2.00	
	13	539	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	8,562,000					0.25	2.00	
	14	540	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	541	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	8,570,300					0.25	0.80	
	16	542	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	8,589,300					0.25	0.80	
	17	543	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	8,621,800					0.25	2.00	
	18	544	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	8,660,800					0.25	2.00	
	19	545	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	8,699,300					0.25	2.00	
	20	546	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	8,725,000					0.25	2.00	
	21	547	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	548	Shut Down																			
26	1	549	Pump Down	Treated Water																	
	2	550	Shut Down																		
	3	551	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	552	Acid HCL-7.5				10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	553	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	554	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	8,736,250					0.25	0.80	
	7	555	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	8,758,750					0.25	0.80	
	8	556	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	8,803,750					0.25	0.80	
	9	557	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	8,829,700					0.25	0.80	
	10	558	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	8,838,000					0.25	0.80	
	11	559	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	8,860,000					0.25	0.80	
	12	560	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	8,882,500					0.25	2.00	
	13	561	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	8,911,000					0.25	2.00	
	14	562	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	563	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	8,919,300					0.25	0.80	
	16	564	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	8,938,300					0.25	0.80	
	17	565	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	8,970,800					0.25	2.00	
	18	566	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	9,009,800					0.25	2.00	
	19	567	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	9,048,300					0.25	2.00	
	20	568	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	9,074,000					0.25	2.00	
	21	569	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	570	Shut Down																			
27	1	571	Pump Down	Treated Water																	
	2	572	Shut Down																		
	3	573	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	574	Acid HCL-7.5				10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	575	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	576	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	9,085,250					0.25	0.80	
	7	577	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	9,107,750					0.25	0.80	
	8	578	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	9,152,750					0.25	0.80	
	9	579	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	9,178,700					0.25	0.80	
	10	580	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	9,187,000					0.25	0.80	
	11	581	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	9,209,000					0.25	0.80	
	12	582	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	9,231,500					0.25	2.00	
	13	583	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	9,260,000					0.25	2.00	
	14	584	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	585	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	9,268,300					0.25	0.80	
	16	586	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	9,287,300					0.25	0.80	
	17	587	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	9,319,800					0.25	2.00	
	18	588	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	9,358,800					0.25	2.00	
	19	589	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	9,397,300					0.25	2.00	
	20	590	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	9,423,000					0.25	2.00	
	21	591	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	592	Shut Down																			

Formation: Niobrara

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volun	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
28	1	593	Pump Down	Treated Water																	
	2	594	Shut Down																		
	3	595	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	596	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8					252.00	2.00	2.00			
	5	597	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	598	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	9,434,250					0.25	0.80	
	7	599	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	9,456,750					0.25	0.80	
	8	600	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	9,501,750					0.25	0.80	
	9	601	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	9,527,700					0.25	0.80	
	10	602	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	9,536,000					0.25	0.80	
	11	603	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	9,558,000					0.25	0.80	
	12	604	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	9,580,500					0.25	2.00	
	13	605	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	9,609,000					0.25	2.00	
	14	606	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	607	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	9,617,300					0.25	0.80	
	16	608	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	9,636,300					0.25	0.80	
	17	609	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	9,668,800					0.25	2.00	
	18	610	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	9,707,800					0.25	2.00	
	19	611	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	9,746,300					0.25	2.00	
	20	612	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	9,772,000					0.25	2.00	
	21	613	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	614	Shut Down																		
29	1	615	Pump Down	Treated Water																	
	2	616	Shut Down																		
	3	617	Establish Rate	LibertyFR			10	5,000	119.0	119.0											



27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volum	Proppant			Additive Concentrations						
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal	
31	1	659	Pump Down	Treated Water																		
	2	660	Shut Down																			
	3	661	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80		
	4	662	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00					
	5	663	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80		
	6	664	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	10,481,250					0.25	0.80		
	7	665	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	10,503,750					0.25	0.80		
	8	666	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	10,548,750					0.25	0.80		
	9	667	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	10,574,700					0.25	0.80		
	10	668	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	10,583,000					0.25	0.80		
	11	669	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	10,605,000					0.25	0.80		
	12	670	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	10,627,500					0.25	2.00		
	13	671	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	10,656,000					0.25	2.00		
	14	672	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80		
	15	673	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	10,664,300					0.25	0.80		
	16	674	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	10,683,300					0.25	0.80		
	17	675	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	10,715,800					0.25	2.00		
	18	676	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	10,754,800					0.25	2.00		
	19	677	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	10,793,300					0.25	2.00		
	20	678	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	10,819,000					0.25	2.00		
	21	679	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80		
22	680	Shut Down																				
32	1	681	Pump Down	Treated Water																		
	2	682	Shut Down																			
	3	683	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80		
	4	684	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00					
	5	685	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80		
	6	686	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	10,830,250					0.25	0.80		
	7	687	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	10,852,750					0.25	0.80		
	8	688	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	10,897,750					0.25	0.80		
	9	689	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	10,923,700					0.25	0.80		
	10	690	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	10,932,000					0.25	0.80		
	11	691	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	10,954,000					0.25	0.80		
	12	692	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	10,976,500					0.25	2.00		
	13	693	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	11,005,000					0.25	2.00		
	14	694	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80		
	15	695	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	11,013,300					0.25	0.80		
	16	696	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	11,032,300					0.25	0.80		
	17	697	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	11,064,800					0.25	2.00		
	18	698	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	11,103,800					0.25	2.00		
	19	699	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	11,142,300					0.25	2.00		
	20	700	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	11,168,000					0.25	2.00		
	21	701	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80		
22	702	Shut Down																				
33	1	703	Pump Down	Treated Water																		
	2	704	Shut Down																			
	3	705	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80		
	4	706	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00					
	5	707	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80		
	6	708	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	11,179,250					0.25	0.80		
	7	709	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	11,201,750					0.25	0.80		
	8	710	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	11,246,750					0.25	0.80		
	9	711	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	11,272,700					0.25	0.80		
	10	712	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	11,281,000					0.25	0.80		
	11	713	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	11,303,000					0.25	0.80		
	12	714	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	11,325,500					0.25	2.00		
	13	715	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	11,354,000					0.25	2.00		
	14	716	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80		
	15	717	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	11,362,300					0.25	0.80		
	16	718	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	11,381,300					0.25	0.80		
	17	719	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	11,413,800					0.25	2.00		
	18	720	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	11,452,800					0.25	2.00		
	19	721	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	11,491,300					0.25	2.00		
	20	722	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	11,517,000					0.25	2.00		
	21	723	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80		
22	724	Shut Down																				

Formation: Niobrara

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9.500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume		Lurry Volum	Proppant			Additive Concentrations						
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)	Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSulte GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal	
34	1	725	Pump Down	Treated Water																	
	2	726	Shut Down																		
	3	727	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	728	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	729	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	730	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	11,528,250					0.25	0.80	
	7	731	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	11,550,750					0.25	0.80	
	8	732	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	11,595,750					0.25	0.80	
	9	733	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	11,621,700					0.25	0.80	
	10	734	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	11,630,000					0.25	0.80	
	11	735	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	11,652,000					0.25	0.80	
	12	736	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	11,674,500					0.25	2.00	
	13	737	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	11,703,000					0.25	2.00	
	14	738	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	739	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	11,711,300					0.25	0.80	
	16	740	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	11,730,300					0.25	0.80	
	17	741	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	11,762,800					0.25	2.00	
	18	742	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	11,801,800					0.25	2.00	
	19	743	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	11,840,300					0.25	2.00	
	20	744	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	11,866,000					0.25	2.00	
	21	745	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	746	Shut Down																			
35	1	747	Pump Down	Treated Water																	
	2	748	Shut Down																		
	3	749	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119										



API: 05-039-06703

9,500 psi

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volum	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)	Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal	
37	1	791	Pump Down	Treated Water																	
	2	792	Shut Down																		
	3	793	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	794	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	795	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	796	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	12,575,250					0.25	0.80	
	7	797	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	12,597,750					0.25	0.80	
	8	798	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	12,642,750					0.25	0.80	
	9	799	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	12,668,700					0.25	0.80	
	10	800	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	12,677,000					0.25	0.80	
	11	801	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	12,699,000					0.25	0.80	
	12	802	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	12,721,500					0.25	2.00	
	13	803	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	12,750,000					0.25	2.00	
	14	804	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	805	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	12,758,300					0.25	0.80	
	16	806	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	12,777,300					0.25	0.80	
	17	807	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	12,809,800					0.25	2.00	
	18	808	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	12,848,800					0.25	2.00	
	19	809	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	12,887,300					0.25	2.00	
	20	810	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	12,913,000					0.25	2.00	
	21	811	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
22	812	Shut Down																			
38	1	813	Pump Down	Treated Water																	
	2	814	Shut Down																		
	3	815	Establish Rate	LibertyFR			10	5,000	119.0												

Formation: Niobrara

LIBERTY

Intervals: 60

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volun	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
40	1	857	Pump Down	Treated Water																	
	2	858	Shut Down																		
	3	859	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	860	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8					252.00	2.00	2.00			
	5	861	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	862	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	13,622,250					0.25	0.80	
	7	863	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	13,644,750					0.25	0.80	
	8	864	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	13,689,750					0.25	0.80	
	9	865	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	13,715,700					0.25	0.80	
	10	866	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	13,724,000					0.25	0.80	
	11	867	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	13,746,000					0.25	0.80	
	12	868	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	13,768,500					0.25	2.00	
	13	869	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	13,797,000					0.25	2.00	
	14	870	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	871	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	13,805,300					0.25	0.80	
	16	872	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	13,824,300					0.25	0.80	
	17	873	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	13,856,800					0.25	2.00	
	18	874	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	13,895,800					0.25	2.00	
	19	875	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	13,934,300					0.25	2.00	
	20	876	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	13,960,000					0.25	2.00	
	21	877	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	878	Shut Down																		
41	1	879	Pump Down	Treated Water																	
	2	880	Shut Down																		
	3	881	Establish Rate	LibertyFR			10	5,000	119												

Formation: Niobrara

LIBERTY

intervals; bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volum	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
43	1	923	Pump Down	Treated Water																	
	2	924	Shut Down																		
	3	925	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	926	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	927	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	928	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	14,669,250					0.25	0.80	
	7	929	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	14,691,750					0.25	0.80	
	8	930	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	14,736,750					0.25	0.80	
	9	931	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	14,762,700					0.25	0.80	
	10	932	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	14,771,000					0.25	0.80	
	11	933	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	14,793,000					0.25	0.80	
	12	934	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	14,815,500					0.25	2.00	
	13	935	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	14,844,000					0.25	2.00	
	14	936	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	937	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	14,852,300					0.25	0.80	
	16	938	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	14,871,300					0.25	0.80	
	17	939	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	14,903,800					0.25	2.00	
	18	940	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	14,942,800					0.25	2.00	
	19	941	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	14,981,300					0.25	2.00	
	20	942	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	15,007,000					0.25	2.00	
	21	943	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	944	Shut Down																		
44	1	945	Pump Down	Treated Water																	
	2	946	Shut Down																		
	3	947	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	948	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	949	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	950	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	15,018,250					0.25	0.80	
	7	951	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	15,040,750					0.25	0.80	
	8	952	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	15,085,750					0.25	0.80	
	9	953	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	15,111,700					0.25	0.80	
	10	954	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	15,120,000					0.25	0.80	
	11	955	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	15,142,000					0.25	0.80	
	12	956	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	15,164,500					0.25	2.00	
	13	957	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	15,193,000					0.25	2.00	
	14	958	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	959	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	15,201,300					0.25	0.80	
	16	960	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	15,220,300					0.25	0.80	
	17	961	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	15,252,800					0.25	2.00	
	18	962	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	15,291,800					0.25	2.00	
	19	963	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	15,330,300					0.25	2.00	
	20	964	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	15,356,000					0.25	2.00	
	21	965	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	966	Shut Down																		
45	1	967	Pump Down	Treated Water																	
	2	968	Shut Down																		
	3	969	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	970	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	971	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	972	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	15,367,250					0.25	0.80	
	7	973	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	15,389,750					0.25	0.80	
	8	974	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	15,434,750					0.25	0.80	
	9	975	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	15,460,700					0.25	0.80	
	10	976	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	15,469,000					0.25	0.80	
	11	977	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	15,491,000					0.25	0.80	
	12	978	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	15,513,500					0.25	2.00	
	13	979	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	15,542,000					0.25	2.00	
	14	980	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	981	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	15,550,300					0.25	0.80	
	16	982	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	15,569,300					0.25	0.80	
	17	983	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	15,601,800					0.25	2.00	
	18	984	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	15,640,800					0.25	2.00	
	19	985	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	15,679,300					0.25	2.00	
	20	986	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	15,705,000					0.25	2.00	
	21	987	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	988	Shut Down																		

INTERVAL #	STAGE #	CMTV STAGE #	STAGE TYPE	FLUID TYPE	PROPPANT TYPE	PPA	DESIGN SLURRY RATE (BPM)	DESIGN CLEAN VOLUME (GAL)	CLEAN VOLUME		LURRY VOLUM	DESIGN (CALC'D)	STAGE DESIGN (LBS)	PROPPANT		CUMULATIVE JOB DESIGN (LBS)	ADDITIVE CONCENTRATIONS					
									DESIGN (BBL)	DESIGN CUMULATIVE (BBL)	DESIGN (BBL)			CUMULATIVE STAGE DESIGN (LBS)	HCL-28 Gal		ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal	
46	1	989	Pump Down	Treated Water																		
	2	990	Shut Down																			
	3	991	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0									0.25	0.80	
	4	992	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8						252.00	2.00	2.00			
	5	993	Pad	LibertyFR			120	24,000	571.4	714.3	571.4									0.25	0.80	
	6	994	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	15,716,250						0.25	0.80	
	7	995	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	15,738,750						0.25	0.80	
	8	996	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	15,783,750						0.25	0.80	
	9	997	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	15,809,700						0.25	0.80	
	10	998	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	15,818,000						0.25	0.80	
	11	999	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	15,840,000						0.25	0.80	
	12	1000	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	15,862,500						0.25	2.00	
	13	1001	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	15,891,000						0.25	2.00	
	14	1002	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2									0.25	0.80	
	15	1003	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	15,899,300						0.25	0.80	
	16	1004	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	15,918,300						0.25	0.80	
	17	1005	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	15,950,800						0.25	2.00	
	18	1006	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	15,989,800						0.25	2.00	
	19	1007	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	16,028,300						0.25	2.00	
	20	1008	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	16,054,000						0.25	2.00	
	21	1009	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0									0.25	0.80	
	22	1010	Shut Down																			
47	1	1011	Pump Down	Treated Water																		
	2	1012	Shut Down																			
	3	1013	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0									0.25	0.80	
	4	1014	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8						252.00	2.00	2.00			
	5	1015	Pad	LibertyFR			120	24,000	571.4	714.3	571.4									0.25	0.80	
	6	1016	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	16,065,250						0.25	0.80	
	7	1017	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	16,087,750						0.25	0.80	
	8	1018	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	16,132,750						0.25	0.80	
	9	1019	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	16,158,700						0.25	0.80	
	10	1020	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	16,167,000						0.25	0.80	
	11	1021	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	16,189,000						0.25	0.80	
	12	1022	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	16,211,500						0.25	2.00	
	13	1023	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	16,240,000						0.25	2.00	
	14	1024	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2									0.25	0.80	
	15	1025	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	16,248,300						0.25	0.80	
	16	1026	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	16,267,300						0.25	0.80	
	17	1027	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	16,299,800						0.25	2.00	
	18	1028	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	16,338,800						0.25	2.00	
	19	1029	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	16,377,300						0.25	2.00	
	20	1030	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	16,403,000						0.25	2.00	
	21	1031	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0									0.25	0.80	
	22	1032	Shut Down																			
48	1	1033	Pump Down	Treated Water																		
	2	1034	Shut Down																			
	3	1035	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0									0.25	0.80	
	4	1036	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8						252.00	2.00	2.00			
	5	1037	Pad	LibertyFR			120	24,000	571.4	714.3	571.4									0.25	0.80	
	6	1038	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	16,414,250						0.25	0.80	
	7	1039	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	16,436,750						0.25	0.80	
	8	1040	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	16,481,750						0.25	0.80	
	9	1041	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	16,507,700						0.25	0.80	
	10	1042	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	16,516,000						0.25	0.80	
	11	1043	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	16,538,000						0.25	0.80	
	12	1044	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	16,560,500						0.25	2.00	
	13	1045	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	16,589,000						0.25	2.00	
	14	1046	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2									0.25	0.80	
	15	1047	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	16,597,300						0.25	0.80	
	16	1048	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	16,616,300						0.25	0.80	
	17	1049	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	16,648,800						0.25	2.00	
	18	1050	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	16,687,800						0.25	2.00	
	19	1051	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	16,726,300						0.25	2.00	
	20	1052	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	16,752,000						0.25	2.00	
	21	1053	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0									0.25	0.80	
	22	1054	Shut Down																			

Formation: Niohrara

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volum	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
49	1	1055	Pump Down	Treated Water																	
	2	1056	Shut Down																		
	3	1057	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	1058	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	1059	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	1060	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	16,763,250					0.25	0.80	
	7	1061	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	16,785,750					0.25	0.80	
	8	1062	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	16,830,750					0.25	0.80	
	9	1063	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	16,856,700					0.25	0.80	
	10	1064	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	16,865,000					0.25	0.80	
	11	1065	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	16,887,000					0.25	0.80	
	12	1066	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	16,909,500					0.25	2.00	
	13	1067	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	16,938,000					0.25	2.00	
	14	1068	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	1069	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	16,946,300					0.25	0.80	
	16	1070	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	16,965,300					0.25	0.80	
	17	1071	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	16,997,800					0.25	2.00	
	18	1072	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	17,036,800					0.25	2.00	
	19	1073	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	17,075,300					0.25	2.00	
	20	1074	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	17,101,000					0.25	2.00	
	21	1075	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	1076	Shut Down																		
50	1	1077	Pump Down	Treated Water																	
	2	1078	Shut Down																		
	3	1079	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	1080	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	1081	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	1082	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	17,112,250					0.25	0.80	
	7	1083	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	17,134,750					0.25	0.80	
	8	1084	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	17,179,750					0.25	0.80	
	9	1085	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	17,205,700					0.25	0.80	
	10	1086	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	17,214,000					0.25	0.80	
	11	1087	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	17,236,000					0.25	0.80	
	12	1088	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	17,258,500					0.25	2.00	
	13	1089	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	17,287,000					0.25	2.00	
	14	1090	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	1091	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	17,295,300					0.25	0.80	
	16	1092	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	17,314,300					0.25	0.80	
	17	1093	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	17,346,800					0.25	2.00	
	18	1094	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	17,385,800					0.25	2.00	
	19	1095	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	17,424,300					0.25	2.00	
	20	1096	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	17,450,000					0.25	2.00	
	21	1097	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	1098	Shut Down																		
51	1	1099	Pump Down	Treated Water																	
	2	1100	Shut Down																		
	3	1101	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	1102	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8				252.00	2.00	2.00				
	5	1103	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	1104	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	17,461,250					0.25	0.80	
	7	1105	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	17,483,750					0.25	0.80	
	8	1106	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	17,528,750					0.25	0.80	
	9	1107	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	17,554,700					0.25	0.80	
	10	1108	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	17,563,000					0.25	0.80	
	11	1109	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	17,585,000					0.25	0.80	
	12	1110	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	17,607,500					0.25	2.00	
	13	1111	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	17,636,000					0.25	2.00	
	14	1112	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	1113	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	17,644,300					0.25	0.80	
	16	1114	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	17,663,300					0.25	0.80	
	17	1115	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	17,695,800					0.25	2.00	
	18	1116	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	17,734,800					0.25	2.00	
	19	1117	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	17,773,300					0.25	2.00	
	20	1118	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	17,799,000					0.25	2.00	
	21	1119	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	1120	Shut Down																		

INTERVAL #	STAGE #	CMTV STAGE #	STAGE TYPE	FLUID TYPE	PROPPANT TYPE	PPA	DESIGN SLURRY RATE (BPM)	DESIGN CLEAN VOLUME (GAL)	CLEAN VOLUME		LURRY VOLUME	DESIGN (BBL)	CUMULATIVE (BBL)	DESIGN (CALC'D) (BBL)	STAGE DESIGN (LBS)	PROPPANT		CUMULATIVE JOB DESIGN (LBS)	ADDITIVE CONCENTRATIONS					
									DESIGN	DESIGN						STAGE DESIGN	CUMULATIVE STAGE DESIGN		HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
52	1	1121	Pump Down	Treated Water																				
	2	1122	Shut Down																					
	3	1123	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								252.00	2.00	2.00	0.25	0.80	
	4	1124	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8													
	5	1125	Pad	LibertyFR			120	24,000	571.4	714.3	571.4											0.25	0.80	
	6	1126	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	17,810,250								0.25	0.80	
	7	1127	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	17,832,750								0.25	0.80	
	8	1128	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	17,877,750								0.25	0.80	
	9	1129	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	17,903,700								0.25	0.80	
	10	1130	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	17,912,000								0.25	0.80	
	11	1131	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	17,934,000								0.25	0.80	
	12	1132	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	17,956,500								0.25	2.00	
	13	1133	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	17,985,000								0.25	2.00	
	14	1134	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2											0.25	0.80	
	15	1135	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	17,993,300								0.25	0.80	
	16	1136	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	18,012,300								0.25	0.80	
	17	1137	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	18,044,800								0.25	2.00	
	18	1138	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	18,083,800								0.25	2.00	
	19	1139	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	18,122,300								0.25	2.00	
	20	1140	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	18,148,000								0.25	2.00	
	21	1141	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0											0.25	0.80	
	22	1142	Shut Down																					
53	1	1143	Pump Down	Treated Water																				
	2	1144	Shut Down																					
	3	1145	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								252.00	2.00	2.00	0.25	0.80	
	4	1146	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8													
	5	1147	Pad	LibertyFR			120	24,000	571.4	714.3	571.4											0.25	0.80	
	6	1148	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	18,159,250								0.25	0.80	
	7	1149	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	18,181,750								0.25	0.80	
	8	1150	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	18,226,750								0.25	0.80	
	9	1151	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	18,252,700								0.25	0.80	
	10	1152	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	18,261,000								0.25	0.80	
	11	1153	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	18,283,000								0.25	0.80	
	12	1154	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	18,305,500								0.25	2.00	
	13	1155	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	18,334,000								0.25	2.00	
	14	1156	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2											0.25	0.80	
	15	1157	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	18,342,300								0.25	0.80	
	16	1158	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	18,361,300								0.25	0.80	
	17	1159	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	18,393,800								0.25	2.00	
	18	1160	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	18,432,800								0.25	2.00	
	19	1161	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	18,471,300								0.25	2.00	
	20	1162	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	18,497,000								0.25	2.00	
	21	1163	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0											0.25	0.80	
	22	1164	Shut Down																					
54	1	1165	Pump Down	Treated Water																				
	2	1166	Shut Down																					
	3	1167	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								252.00	2.00	2.00	0.25	0.80	
	4	1168	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8													
	5	1169	Pad	LibertyFR			120	24,000	571.4	714.3	571.4											0.25	0.80	
	6	1170	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	18,508,250								0.25	0.80	
	7	1171	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	18,530,750								0.25	0.80	
	8	1172	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	18,575,750								0.25	0.80	
	9	1173	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	18,601,700								0.25	0.80	
	10	1174	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	18,610,000								0.25	0.80	
	11	1175	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	18,632,000								0.25	0.80	
	12	1176	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	18,654,500								0.25	2.00	
	13	1177	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	18,683,000								0.25	2.00	
	14	1178	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2											0.25	0.80	
	15	1179	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	18,691,300								0.25	0.80	
	16	1180	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	18,710,300								0.25	0.80	
	17	1181	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	18,742,800								0.25	2.00	
	18	1182	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	18,781,800								0.25	2.00	
	19	1183																						

INTERVAL #	STAGE #	CMTV STAGE #	STAGE TYPE	FLUID TYPE	PROPPANT TYPE	PPA	DESIGN SLURRY RATE (BPM)	DESIGN CLEAN VOLUME (GAL)	CLEAN VOLUME		LURRY VOLUME	DESIGN (CALC'D)	STAGE DESIGN (LBS)	PROPPANT		CUMULATIVE JOB DESIGN (LBS)	ADDITIVE CONCENTRATIONS					
									DESIGN (BBL)	DESIGN CUMULATIVE (BBL)	DESIGN (BBL)			CUMULATIVE STAGE DESIGN (LBS)	HCL-28 Gal		ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal	
55	1	1187	Pump Down	Treated Water																		
	2	1188	Shut Down																			
	3	1189	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0									0.25	0.80	
	4	1190	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8						252.00	2.00	2.00			
	5	1191	Pad	LibertyFR			120	24,000	571.4	714.3	571.4									0.25	0.80	
	6	1192	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5		11,250	11,250	18,857,250					0.25	0.80	
	7	1193	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7		22,500	33,750	18,879,750					0.25	0.80	
	8	1194	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1		45,000	78,750	18,924,750					0.25	0.80	
	9	1195	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8		25,950	104,700	18,950,700					0.25	0.80	
	10	1196	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2		8,300	113,000	18,959,000					0.25	0.80	
	11	1197	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5		22,000	135,000	18,981,000					0.25	0.80	
	12	1198	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8		22,500	157,500	19,003,500					0.25	2.00	
	13	1199	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1		28,500	186,000	19,032,000					0.25	2.00	
	14	1200	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2									0.25	0.80	
	15	1201	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2		8,300	194,300	19,040,300					0.25	0.80	
	16	1202	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8		19,000	213,300	19,059,300					0.25	0.80	
	17	1203	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1		32,500	245,800	19,091,800					0.25	2.00	
	18	1204	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1		39,000	284,800	19,130,800					0.25	2.00	
	19	1205	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3		38,500	323,300	19,169,300					0.25	2.00	
	20	1206	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6		25,700	349,000	19,195,000					0.25	2.00	
	21	1207	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0									0.25	0.80	
	22	1208	Shut Down																			
56	1	1209	Pump Down	Treated Water																		
	2	1210	Shut Down																			
	3	1211	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0									0.25	0.80	
	4	1212	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8						252.00	2.00	2.00			
	5	1213	Pad	LibertyFR			120	24,000	571.4	714.3	571.4									0.25	0.80	
	6	1214	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5		11,250	11,250	19,206,250					0.25	0.80	
	7	1215	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7		22,500	33,750	19,228,750					0.25	0.80	
	8	1216	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1		45,000	78,750	19,273,750					0.25	0.80	
	9	1217	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8		25,950	104,700	19,299,700					0.25	0.80	
	10	1218	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2		8,300	113,000	19,308,000					0.25	0.80	
	11	1219	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5		22,000	135,000	19,330,000					0.25	0.80	
	12	1220	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8		22,500	157,500	19,352,500					0.25	2.00	
	13	1221	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1		28,500	186,000	19,381,000					0.25	2.00	
	14	1222	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2									0.25	0.80	
	15	1223	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2		8,300	194,300	19,389,300					0.25	0.80	
	16	1224	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8		19,000	213,300	19,408,300					0.25	0.80	
	17	1225	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1		32,500	245,800	19,440,800					0.25	2.00	
	18	1226	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1		39,000	284,800	19,479,800					0.25	2.00	
	19	1227	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3		38,500	323,300	19,518,300					0.25	2.00	
	20	1228	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6		25,700	349,000	19,544,000					0.25	2.00	
	21	1229	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0									0.25	0.80	
	22	1230	Shut Down																			
57	1	1231	Pump Down	Treated Water																		
	2	1232	Shut Down																			
	3	1233	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0									0.25	0.80	
	4	1234	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8						252.00	2.00	2.00			
	5	1235	Pad	LibertyFR			120	24,000	571.4	714.3	571.4									0.25	0.80	
	6	1236	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5		11,250	11,250	19,555,250					0.25	0.80	
	7	1237	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7		22,500	33,750	19,577,750					0.25	0.80	
	8	1238	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1		45,000	78,750	19,622,750					0.25	0.80	
	9	1239	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8		25,950	104,700	19,648,700					0.25	0.80	
	10	1240	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2		8,300	113,000	19,657,000					0.25	0.80	
	11	1241	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5		22,000	135,000	19,679,000					0.25	0.80	
	12	1242	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8		22,500	157,500	19,701,500					0.25	2.00	
	13	1243	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1		28,500	186,000	19,730,000					0.25	2.00	
	14	1244	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2									0.25	0.80	
	15	1245	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2		8,300	194,300	19,738,300					0.25	0.80	
	16	1246	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8		19,000	213,300	19,757,300					0.25	0.80	
	17	1247	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1		32,500	245,800	19,789,800					0.25	2.00	
	18	1248	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1		39,000	284,800	19,828,800					0.25	2.00	
	19	1249	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3		38,500	323,300	19,867,300					0.25	2.00	
	20	1250	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6		25,700	349,000	19,893,000					0.25	2.00	
	21	1251	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0									0.25	0.80	
	22	1																				

Formation: Niobrara

LIBERTY

intervals; bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure

9,500 psi

Max HHP

27.941 hhp

Interval #	Stage #	CMTV Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volun	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
58	1	1253	Pump Down	Treated Water																	
	2	1254	Shut Down																		
	3	1255	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	1256	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8					252.00	2.00	2.00			
	5	1257	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	1258	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	19,904,250					0.25	0.80	
	7	1259	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	19,926,750					0.25	0.80	
	8	1260	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	19,971,750					0.25	0.80	
	9	1261	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	19,997,700					0.25	0.80	
	10	1262	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	20,006,000					0.25	0.80	
	11	1263	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	20,028,000					0.25	0.80	
	12	1264	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	20,050,500					0.25	2.00	
	13	1265	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	20,079,000					0.25	2.00	
	14	1266	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	1267	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	20,087,300					0.25	0.80	
	16	1268	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	20,106,300					0.25	0.80	
	17	1269	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	20,138,800					0.25	2.00	
	18	1270	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	20,177,800					0.25	2.00	
	19	1271	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	20,216,300					0.25	2.00	
	20	1272	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	20,242,000					0.25	2.00	
	21	1273	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	1274	Shut Down																		
59	1	1275	Pump Down	Treated Water																	
	2	1276	Shut Down																		
	3	1277	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	1278	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8					252.00	2.00	2.00			
	5	1279	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	1280	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250	11,250	20,253,250					0.25	0.80	
	7	1281	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500	33,750	20,275,750					0.25	0.80	
	8	1282	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000	78,750	20,320,750					0.25	0.80	
	9	1283	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950	104,700	20,346,700					0.25	0.80	
	10	1284	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300	113,000	20,355,000					0.25	0.80	
	11	1285	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000	135,000	20,377,000					0.25	0.80	
	12	1286	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500	157,500	20,399,500					0.25	2.00	
	13	1287	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500	186,000	20,428,000					0.25	2.00	
	14	1288	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	1289	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300	194,300	20,436,300					0.25	0.80	
	16	1290	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000	213,300	20,455,300					0.25	0.80	
	17	1291	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500	245,800	20,487,800					0.25	2.00	
	18	1292	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000	284,800	20,526,800					0.25	2.00	
	19	1293	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500	323,300	20,565,300					0.25	2.00	
	20	1294	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700	349,000	20,591,000					0.25	2.00	
	21	1295	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	1296	Shut Down																		

Formation: Niobrara

LIBERTY

intervals: bu

Customer: GMT EXPLORATION

Well Name: REDSTONE 6-65 24-36 1HN

API: 05-039-06703

Max Pressure
9.500 psi

Max HHP
27.941 hhp

Interval #	Stage #	CMT/ Stage #	Stage Type	Fluid Type	Proppant Type	PPA	Design Slurry Rate (BPM)	Design Clean Volume (GAL)	Clean Volume			Lurry Volun	Proppant			Additive Concentrations					
									Design (BBL)	Design Cumulative (BBL)	Design (CALC'D) (BBL)		Stage Design (LBS)	Cumulative Stage Design (LBS)	Cumulative Job Design (LBS)	HCL-28 Gal	ACI-97 GPT	ASF-67 GPT	BioSuite GQ510x GPT	FRP-1S GPT	SpearPoint - WL Gal
60	1	1297	Pump Down	Treated Water																	
	2	1298	Shut Down																		
	3	1299	Establish Rate	LibertyFR			10	5,000	119.0	119.0	119.0								0.25	0.80	
	4	1300	Acid	HCL-7.5			10	1,000	23.8	142.9	23.8					252.00	2.00	2.00			
	5	1301	Pad	LibertyFR			120	24,000	571.4	714.3	571.4								0.25	0.80	
	6	1302	PLF	LibertyFR	100 Mesh	0.25	120	45,000	1,071.4	1,785.7	1,083.5	11,250		11,250	20,602,250				0.25	0.80	
	7	1303	PLF	LibertyFR	100 Mesh	0.5	120	45,000	1,071.4	2,857.1	1,095.7	22,500		33,750	20,624,750				0.25	0.80	
	8	1304	PLF	LibertyFR	100 Mesh	0.75	120	60,000	1,428.6	4,285.7	1,477.1	45,000		78,750	20,669,750				0.25	0.80	
	9	1305	PLF	LibertyFR	100 Mesh	1	120	25,950	617.9	4,903.6	645.8	25,950		104,700	20,695,700				0.25	0.80	
	10	1306	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	5,298.8	404.2	8,300		113,000	20,704,000				0.25	0.80	
	11	1307	PLF	LibertyFR	40/70 White	1	120	22,000	523.8	5,822.6	547.5	22,000		135,000	20,726,000				0.25	0.80	
	12	1308	PLF	LibertyFR	40/70 White	1.25	120	18,000	428.6	6,251.2	452.8	22,500		157,500	20,748,500				0.25	2.00	
	13	1309	PLF	LibertyFR	40/70 White	1.5	120	19,000	452.4	6,703.6	483.1	28,500		186,000	20,777,000				0.25	2.00	
	14	1310	Sweep	LibertyFR			120	20,000	476.2	7,179.8	476.2								0.25	0.80	
	15	1311	PLF	LibertyFR	40/70 White	0.5	120	16,600	395.2	7,575.0	404.2	8,300		194,300	20,785,300				0.25	0.80	
	16	1312	PLF	LibertyFR	40/70 White	1	120	19,000	452.4	8,027.4	472.8	19,000		213,300	20,804,300				0.25	0.80	
	17	1313	PLF	LibertyFR	40/70 White	1.25	120	26,000	619.0	8,646.4	654.1	32,500		245,800	20,836,800				0.25	2.00	
	18	1314	PLF	LibertyFR	40/70 White	1.5	120	26,000	619.0	9,265.5	661.1	39,000		284,800	20,875,800				0.25	2.00	
	19	1315	PLF	LibertyFR	40/70 White	1.75	120	22,000	523.8	9,789.3	565.3	38,500		323,300	20,914,300				0.25	2.00	
	20	1316	PLF	LibertyFR	40/70 White	2	120	12,850	306.0	10,095.2	333.6	25,700		349,000	20,940,000				0.25	2.00	
	21	1317	Flush	LibertyFR			120	16,800	400.0	10,495.2	400.0								0.25	0.80	
	22	1318	Shut Down																		
									Total Design Clean	Total Design Clean		Total Design Slurry	Total Design Proppant		Job Design Prop	Total	Total	Total	Total	Total	Total
									(GAL)	(BBL)		(BBL)	(LBS)		(LBS)	(Gal)	(gal)	(gal)	(gal)	(gal)	(gal)
Total Job									26,448,000	629,714.3		652,273.1	20,940,000		20,940,000	15,120	120	120	6,597	30,028	0
Fluid Volume Summary									Design (BBL)			Pump Time	Proppant Type	Pounds	HCL-28	ACI-97	ASF-67	BioSuite	FRP-1S	SpearPoint - WL	
LibertyFR												103 hrs 41 min	100 Mesh	6,282,000	20%	20%	20%	GQ510x	20%	0%	
HCL-7.5													40/70 White	14,658,000	18,144	144	144	7,916	36,033	0	
Treated Water															*Totals Required with % Excess						

Laboratory Report

GMT Exploration - Marble-Redstone

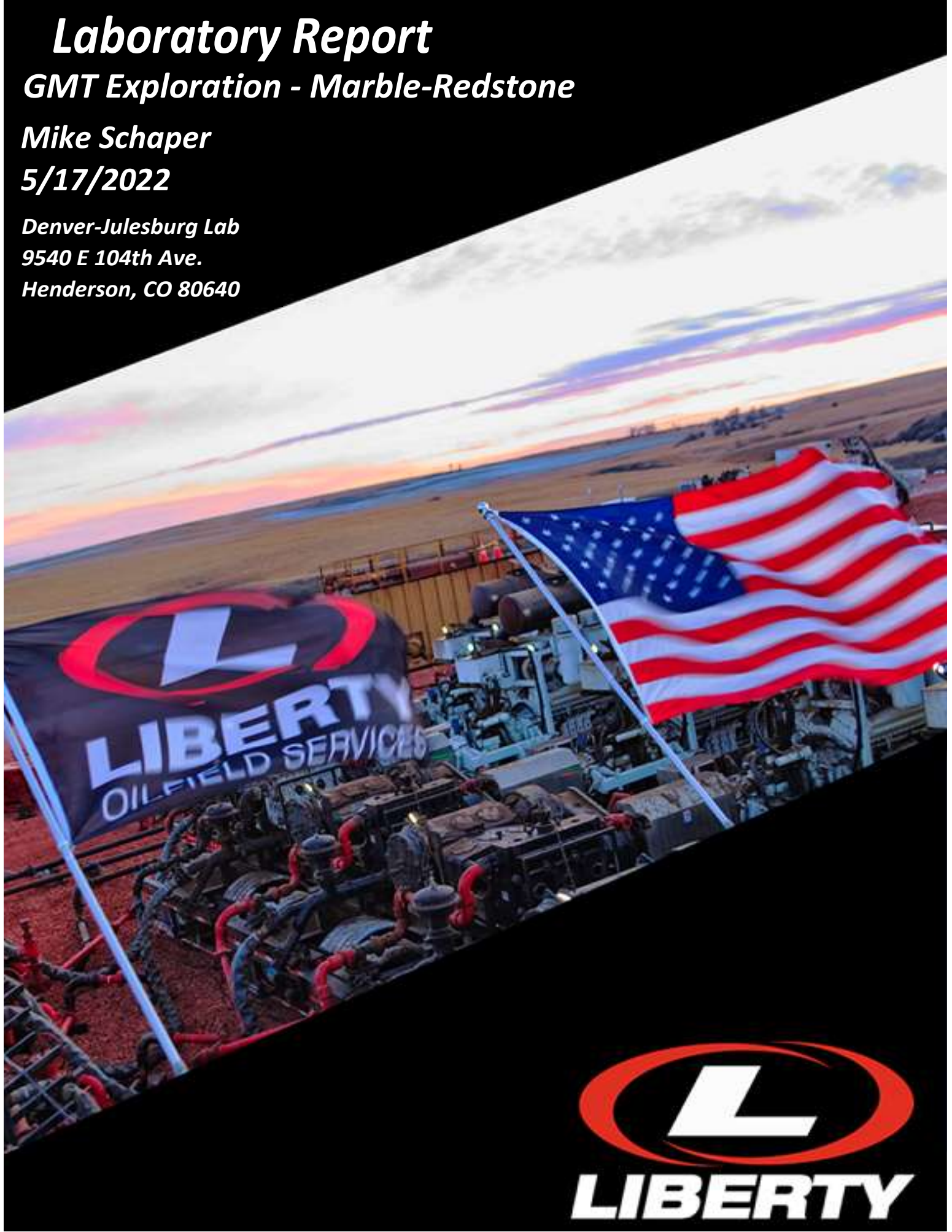
Mike Schaper

5/17/2022

Denver-Julesburg Lab

9540 E 104th Ave.

Henderson, CO 80640





GMT Exploration **Marble-Redstone Pad** **Water Analysis**

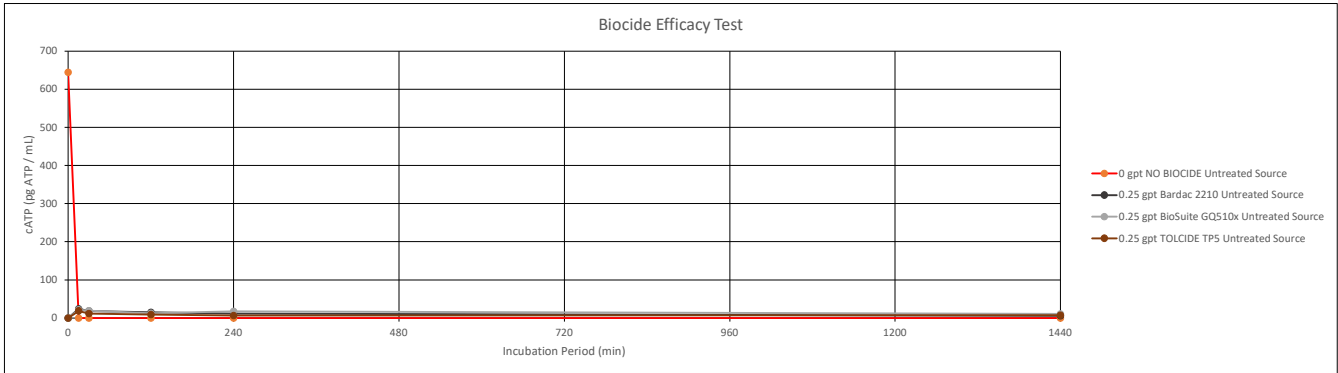
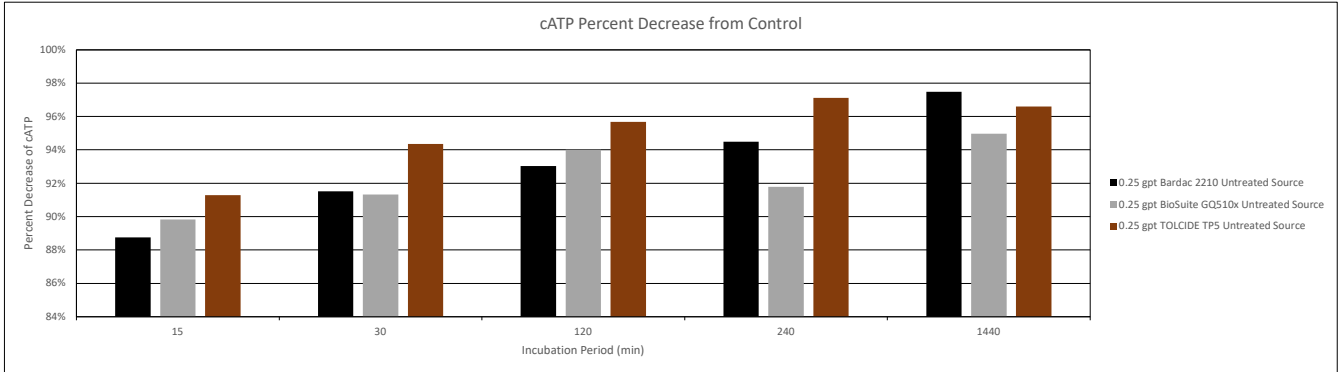
Test:		Untreated Source
Temperature	(deg F)	68.8
Specific Gravity		1.001
pH		8.19
Sodium Na+	(mg/L)	127
Magnesium Mg 2+	(mg/L)	8
Iron Fe2+	(mg/L)	<LOD
Total Iron Fe2+ & Fe3+	(mg/L)	1
Calcium Ca 2+	(mg/L)	42
Total Hardness as CaCO3	(mg/L)	136
Chlorides CL-	(mg/L)	89
Hydroxide OH-	(mg/L)	<LOD
Carbonate CO3(2-)	(mg/L)	<LOD
Bicarbonates HCO3-	(mg/L)	268
Phosphates PO4(3-)	(mg/L)	4
Sulfates SO4(2-)	(mg/L)	60
ORP	mV	39
TDS	(mg/L)	598

*** <LOD indicates a result less than limit of detection.



GMT Exploration
Marble-Redstone Pad
Microbial Testing

	Test Date & Time	Set Point 1	Biocide 1	Set Point 2	Biocide 2	WASampleLocation	Sample Volume	RLU _{UC1}	RLU _{ATP}	Incubation Period	C _{ATP}	% CATP Decrease from Control
		gpt		gpt			mL	RLU	RLU	min	pg ATP/mL	
C	5/17/2022 7:00	0	NO BIOCIDES			Untreated Source	40	19,980	17,165	0	214.777	0.00%
										0		
										0		
										0		
										0		
										0		
1		0	NO BIOCIDES			Untreated Source	40	19980	17165	0	214.777	0.00%
		0.25	Bardac 2210			Untreated Source	40	19980	1931	15	24.162	88.75%
		0.25	Bardac 2210			Untreated Source	40	19980	1456	30	18.218	91.52%
		0.25	Bardac 2210			Untreated Source	40	19980	1197	120	14.977	93.03%
		0.25	Bardac 2210			Untreated Source	40	19980	947	240	11.849	94.48%
		0.25	Bardac 2210			Untreated Source	40	20340	441	1440	5.420	97.48%
2		0	NO BIOCIDES			Untreated Source	40	19980	17165	0	214.777	0.00%
		0.25	BioSuite GQ510x			Untreated Source	40	19980	1747	15	21.859	89.82%
		0.25	BioSuite GQ510x			Untreated Source	40	19980	1490	30	18.644	91.32%
		0.25	BioSuite GQ510x			Untreated Source	40	19980	1030	120	12.888	94.00%
		0.25	BioSuite GQ510x			Untreated Source	40	19980	1411	240	17.655	91.78%
		0.25	BioSuite GQ510x			Untreated Source	40	20340	879	1440	10.804	94.97%
3		0	NO BIOCIDES			Untreated Source	40	19980	17165	0	214.777	0.00%
		0.25	TOLCIDE TP5			Untreated Source	40	19980	1495	15	18.706	91.29%
		0.25	TOLCIDE TP5			Untreated Source	40	19980	967	30	12.100	94.37%
		0.25	TOLCIDE TP5			Untreated Source	40	19980	741	120	9.272	95.68%
		0.25	TOLCIDE TP5			Untreated Source	40	19980	494	240	6.181	97.12%
		0.25	TOLCIDE TP5			Untreated Source	40	20340	592	1440	7.276	96.61%





GMT Exploration Marble-Redstone Pad Shear Rate Testing

Test Specifications:

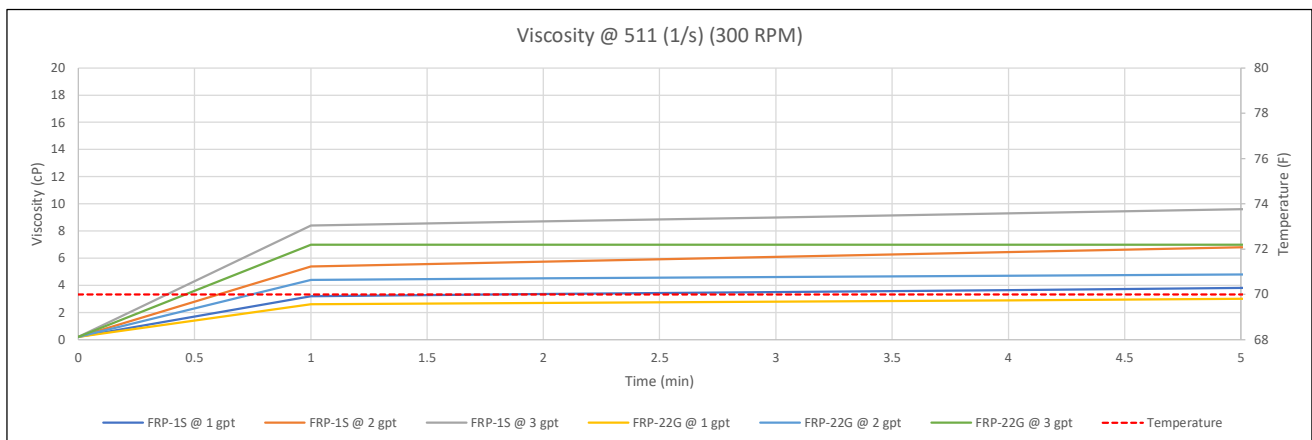
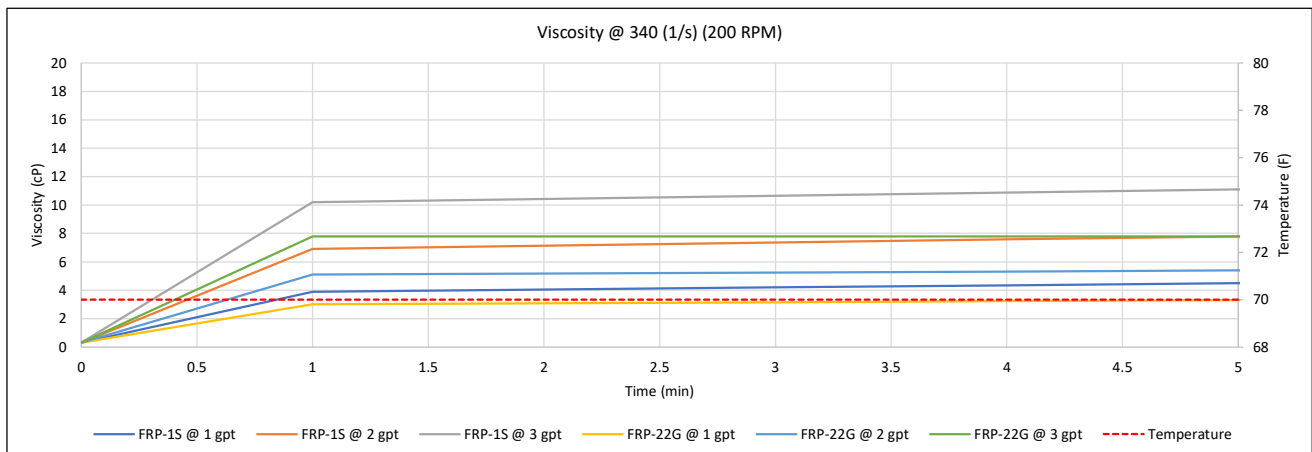
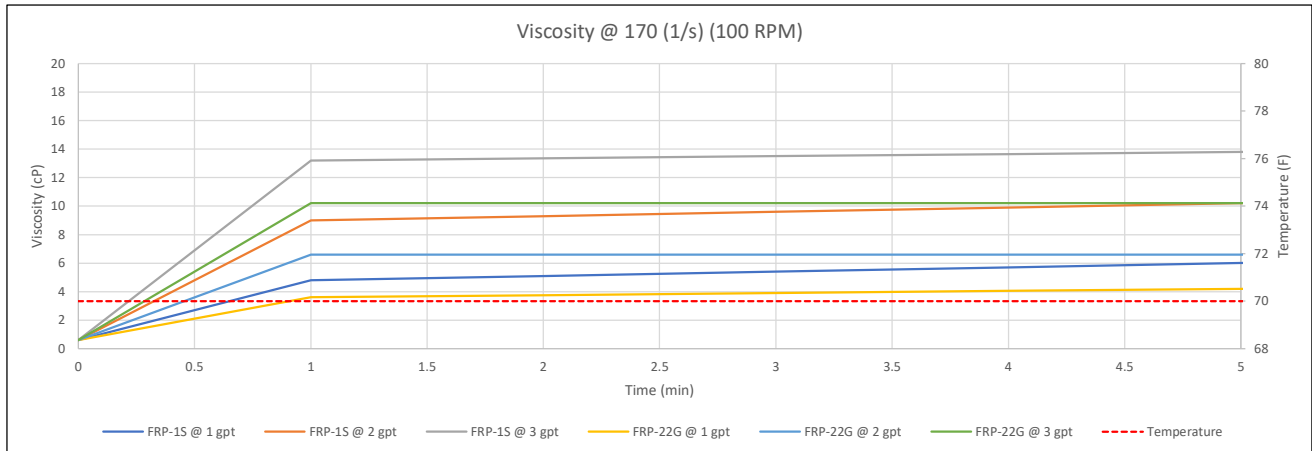
Viscometer Model:	Fann 35
Rotor:	R1
Bob:	B1
Torsion Spring:	F0.2
Shear:	170 s ⁻¹ (100 RPM), 340 s ⁻¹ (200RPM), 511 s ⁻¹ (300 RPM)

Chemical	Water Source	Set Point	Temp.	Shear Rate	Viscosity: 0 Min	Viscosity: 1 Min	Viscosity: 3 Min	Viscosity: 5 Min
		GPT	(F)	(sec-1)/(RPM)	(cP)	(cP)	(cP)	(cP)
FRP-1S	Untreated Source	1.00	70.00	170s ⁻¹ /100 RPM	0.6	4.8	6	6
				340s ⁻¹ /200 RPM	0.3	3.9	4.5	4.5
				511s ⁻¹ /300 RPM	0.2	3.2	3.8	3.8
FRP-1S	Untreated Source	2.00	70.00	170s ⁻¹ /100 RPM	0.6	9	10.2	10.2
				340s ⁻¹ /200 RPM	0.3	6.9	7.8	7.8
				511s ⁻¹ /300 RPM	0.2	5.4	6.8	6.8
FRP-1S	Untreated Source	3.00	70.00	170s ⁻¹ /100 RPM	0.6	13.2	13.8	13.8
				340s ⁻¹ /200 RPM	0.3	10.2	11.1	11.1
				511s ⁻¹ /300 RPM	0.2	8.4	9.6	9.6
FRP-22G	Untreated Source	1.00	70.00	170s ⁻¹ /100 RPM	0.6	3.6	4.2	4.2
				340s ⁻¹ /200 RPM	0.3	3	3.3	3.3
				511s ⁻¹ /300 RPM	0.2	2.6	3	3
FRP-22G	Untreated Source	2.00	70.00	170s ⁻¹ /100 RPM	0.6	6.6	6.6	6.6
				340s ⁻¹ /200 RPM	0.3	5.1	5.4	5.4
				511s ⁻¹ /300 RPM	0.2	4.4	4.8	4.8
FRP-22G	Untreated Source	3.00	70.00	170s ⁻¹ /100 RPM	0.6	10.2	10.2	10.2
				340s ⁻¹ /200 RPM	0.3	7.8	7.8	7.8
				511s ⁻¹ /300 RPM	0.2	7	7	7
DFR-1S	Untreated Source	2.60	70.00	170s ⁻¹ /100 RPM	0.6	4.8	6	6
				340s ⁻¹ /200 RPM	0.3	3.9	4.5	4.5
				511s ⁻¹ /300 RPM	0.2	3.2	3.8	3.8
DFR-1S	Untreated Source	5.20	70.00	170s ⁻¹ /100 RPM	0.6	12	12	12
				340s ⁻¹ /200 RPM	0.3	8.7	8.7	8.7
				511s ⁻¹ /300 RPM	0.2	7	7	7
DFR-1S	Untreated Source	7.80	70.00	170s ⁻¹ /100 RPM	0.6	14.4	15	15.6
				340s ⁻¹ /200 RPM	0.3	10.5	11.7	11.7
				511s ⁻¹ /300 RPM	0.2	8.6	8.6	9.2
DFR-HV8100	Untreated Source	2.60	70.00	170s ⁻¹ /100 RPM	0.6	4.2	6	6
				340s ⁻¹ /200 RPM	0.3	3.6	4.5	4.5
				511s ⁻¹ /300 RPM	0.2	3.4	4	4
DFR-HV8100	Untreated Source	5.20	70.00	170s ⁻¹ /100 RPM	0.6	5.4	10.8	10.8
				340s ⁻¹ /200 RPM	0.3	4.5	8.1	8.1
				511s ⁻¹ /300 RPM	0.2	4	6.8	6.8
DFR-HV8100	Untreated Source	7.80	70.00	170s ⁻¹ /100 RPM	0.6	8.4	14.4	15.6
				340s ⁻¹ /200 RPM	0.3	6	10.5	12
				511s ⁻¹ /300 RPM	0.2	7.2	9	9.4



GMT Exploration Marble-Redstone Pad FR Inversion Curves

Viscosity by Shear Rate for Untreated Source: Liquid FR's





GMT Exploration Marble-Redstone Pad FR Inversion Curves

Viscosity by Shear Rate for Untreated Source: Dry FR's

