

TABLE II

TRIALS OF No. 2. BABCOCK AND WILCOX BOILER WITH No. 36 COAL.

Date, July 31, 1908.

Trial Number, G. C. T. 58.

OBSERVATIONS OF FEED WATER PRESSURES, AND TEMPERATURES.

Boiler gauge subtract 2 lbs. from reading.

Calorimeter gauge correct.

Calorimeter therm. correct. No. 65100, 0°-400° F.

Barometer at start 29.64, at finish 29.54.

Corrections not allowed for on sheets.

Feed therm. Hicks Nos. 15706

and 15701 subt. 0.5° F.

Air therm. subt. 1° F.

Time	Gross	Tare	Water Discharged	Lower Tank Rdg.	Gauge Glass Rdg.	Lbs. Evaporation		Boiler Press. Lbs. per Sq. In.	Cal. Press. Lbs. per Sq. In.	Cal. Temp. °F.	Draught in Ins. Water			Damper Opening Ins.	Boiler Room Temp. °F.	Feed Temp. °F.	Flue Gas Temp. °F.
						In Interval	Per Min.				At Damper	Above Grate	Below Grate				
8.40				1850	310			118	15.2	290	0.24	0.16	0.02	24"	90	72.5	570
8.55				1280	360	520	34.7	114	14.5	290	0.24	0.16	0.02	24"	90	72.5	560
9.10	539	131	408	1340	330	378	25.2	124	16.2	293	0.26	0.20	0.02	24"	90	73.0	575
9.25	539	132	407	1170	370	537	35.8	115	15.0	290	0.27	0.18	0.02	24"	90	73.0	570
9.40	542	128	414	1180	320	454	30.3	124	16.0	294	0.26	0.16	0.02	24"	91	73.0	620
9.55	537	129	408	1030	440	438	29.2	120	15.4	293	0.26	0.16	0.02	24"	91	73.0	580
10.10	537.5	128	409.5	1100	250	529.5	35.3	124	16.1	294	0.26	0.20	0.02	24"	91	73.5	620
10.25	542	128	414	950	320	494	32.9	125	16.4	294	0.27	0.18	0.02	24"	91	73.5	630
10.40	539	129	410														
	540	127.5	412.5	1160	360	572.5	38.2	122	16.0	294	0.27	0.18	0.02	24"	91	73.5	640
10.55	539	127.5	411.5	1210	290	431.5	25.8	123	16.1	294	0.28	0.18	0.02	24"	92	73.5	625
11.10	540	127.5	412.5	1020	420	472.5	31.5	120	15.3	292	0.28	0.18	0.02	24"	91	73.5	610
11.23	538.5	128	410.5	1000	370	430.5	32.1	124	16.3	293	0.28	0.18	0.02	24"	92	73.5	580
11.40	541	128	413	1020	350	413	27.5	124	16.1	294	0.28	0.18	0.02	24"	92	73.5	590
11.55	540	127	413	940	430	413	27.5	122	15.8	293	0.28	0.18	0.02	24"	92	73.5	585
12.10	537.5	128	409.5														
	539	129	410	1380	340	469.5	31.3	119	16.3	293	0.28	0.18	0.02	24"	92	73.5	635
12.25	541	128	413	1280	330	523	34.9	124	16.2	294	0.28	0.18	0.02	24"	91	73.5	600
12.40	539	127.5	411.5	1090	440	491.5	32.8	125	16.4	294	0.28	0.18	0.02	24"	91	73.5	640
12.55	538	127	411	1100	420	421	28.1	123	16.2	294	0.28	0.18	0.02	24"	91	73.5	600
1.10	539	127	412	1070	390	472	31.5	125	16.4	294	0.28	0.18	0.02	24"	92	74.0	700
1.25	541	128	413	1050	340	483	32.2	121	15.6	294	0.28	0.18	0.02	24"	91	73.5	620
1.40	539	128.5	410.5	980	410	410.5	27.4	125	16.4	294	0.28	0.18	0.02	24"	91	73.5	610
1.55	538.5	127.5	411														
	550	130	420	1350	350	521	34.7	123	16.2	294	0.28	0.18	0.02	24"	91	73.5	620
2.10	538	133	405	1260	460	385	25.7	125	16.4	294	0.26	0.18	0.02	24"	92	73.5	560
2.25	538	128.5	409.5	1340	350	439.5	29.3	122	15.6	294	0.26	0.18	0.02	24"	96	74.0	570
2.40	538	129	409	1280	370	449	29.9	116	15.0	292	0.26	0.18	0.02	24"	92	74.0	660
2.55	537	127.5	409.5	1240	370	449.5	30.0	117	15.2	290	0.26	0.18	0.02	24"	92	74.0	630
3.10	538	128	410	1300	340	380	25.3	113	14.2	290	0.26	0.18	0.02	24"	92	74.5	600
3.25	538	127	411	1290	390	371	24.7	117	15.2	290	0.26	0.18	0.02	24"	92	74.5	630
3.40	537.5	128.5	409	1330	460	299	19.9	125	16.4	294	0.30	0.20	0.02	24"	93	75.0	780
3.55	540	130	410	1300	370	530	35.3	118	15.3	291	0.30	0.20	0.02	24"	92	75.0	720
4.10	539.5	128	411.5	1230	360	491.5	32.8	120	15.8	294	0.30	0.20	0.02	24"	92	75.0	710
4.25	538	128	410	1180	360	460	30.7	124	16.1	294	0.30	0.20	0.02	24"	92	75.0	650
4.40	540	129	411	1100	340	511	34.1	125	16.4	294	0.28	0.20	0.02	24"	94	75.0	640
4.55	540	128	412	1060	380	412	27.5	125	16.4	293	0.28	0.20	0.02	24"	92	75.0	640
5.10	540.5	128	412.5	1060	360	432.5	28.9	123	16.0	292	0.28	0.20	0.02	24"	90	75.0	610
5.25	541	130	411	1030	420	381	25.4	120	15.6	290	0.28	0.20	0.02	24"	90	75.0	580
5.40	540	129	411	1210	320	331	22.1	95	11.0	286	0.28	0.20	0.02	24"	98	75.0	540
5.55	537	127.5	409.5	1210	380	349.5	23.3	100	12.3	281	0.26	0.18	0.02	18" at 5.55	90	75.0	520
6.10	540	131	409	1340	380	278	18.6	119	15.4	290	0.26	0.18	0.02	18" at 6.10	89	75.0	530
6.25	541	133	408	1390	350	388	25.9	125	16.4	294	0.28	0.20	0.02	24" at 6.10	90	75.0	600
6.40	537	129	408	1390	330	428		125	16.4	294	0.30	0.20	0.02	24"	89	75.0	710
Total						17,691.5											
Mean								120.4	15.6	292.3	-0.28	-0.18	-0.02		91.5	74.0	616
Corr.								118.4	15.6	292.3					90.5	73.5	616