

RVIB NATHANIEL B. PALMER UNDERWAY GEOPHYSICAL WATCH LOG

NOTE: CELLS ARE FORMATTED TO RECEIVE ONLY NUMBERS, NO SPACES, DECIM.
For questions about the formatting of this spreadsheet see R. Petterson

Date	Julian Day	Time (GMT)	Latitude (S)	Longitude (E)	Speed (Knots)
9-Oct	282	00:30	39 44.506	177 38.734	02.1
9-Oct	282	00:45	39 44.156	177 39.296	02.3
9-Oct	282	01:00	39 43.848	177 39.892	02.4
9-Oct	282	01:15	39 43.506	177 40.523	02.0
9-Oct	282	01:30	39 43.209	177 41.063	01.3
9-Oct	282	01:45	39 43.950	177 41.603	02.2
9-Oct	282	02:00	39 42.602	177 42.195	04.0
9-Oct	282	02:15	39 42.095	177 43.332	04.8
9-Oct	282	02:30	39 43.167	177 43.926	04.5
9-Oct	282	02:45	39 44.185	177 44.076	03.9
9-Oct	282	03:00	39 44.570	177 44.608	03.4
9-Oct	282	03:15	39 44.096	177 45.162	02.7
9-Oct	282	03:30	39 42.638	177 45.707	02.2
9-Oct	282	03:45	39 43.129	177 46.247	02.7
9-Oct	282	04:00	39 42.674	177 46.784	02.8
9-Oct	282	04:15	39 42.209	177 47.312	02.5
9-Oct	282	04:30	39 41.775	177 47.845	02.9
9-Oct	282	04:45	39 41.287	177 48.425	02.6
9-Oct	282	05:00	39 40.693	177 49.160	04.8
9-Oct	282	05:15	39 41.644	177 49.636	04.2
9-Oct	282	05:30	39 42.636	177 49.625	04.0
9-Oct	282	05:45	39 43.612	177 49.239	04.2
9-Oct	282	06:00	39 44.584	177 48.613	04.2
9-Oct	282	06:15	39 45.535	177 47.985	04.4
9-Oct	282	06:30	39 46.510	177 47.387	04.3
9-Oct	282	06:45	39 47.468	177 46.795	04.4
9-Oct	282	07:00	39 48.429	177 46.292	04.1
9-Oct	282	07:15	39 49.311	177 46.723	03.8
9-Oct	282	07:30	39 49.907	177 47.517	03.7
9-Oct	282	07:45	39 50.376	117 48.596	03.4
9-Oct	282	08:00	39 50.669	177 49.682	05.0
9-Oct	282	08:15	39 51.284	177 50.937	04.5
9-Oct	282	08:30	39 51.925	177 52.181	04.6
9-Oct	282	08:45	39 52.561	177 53.394	04.6
9-Oct	282	09:00	39 53.129	177 54.541	04.3
9-Oct	282	09:15	39 53.770	177 55.779	04.4
9-Oct	282	09:30	39 54.404	177 56.998	04.5

9-Oct	282	09:45	39 54.980	177 58.167	04.5
9-Oct	282	10:00	39 55.600	177 59.354	04.4
9-Oct	282	10:15	39 56.255	178 00.560	04.5
9-Oct	282	10:30	39 56.836	178 01.704	04.6
9-Oct	282	10:45	39 57.454	178 02.960	04.6
9-Oct	282	11:00	39 58.107	178 04.221	04.4
9-Oct	282	11:15	39 58.723	178 05.450	04.7
9-Oct	282	11:30	39 59.331	178 06.718	04.6
9-Oct	282	11:45	39 59.983	178 07.935	04.5
9-Oct	282	12:00	40 00.641	178 09.159	04.6
9-Oct	282	12:15	40 01.267	178 10.375	04.4
9-Oct	282	12:30	40 01.890	178 11.612	04.7
9-Oct	282	12:45	40 02.507	178 12.511	04.6
9-Oct	282	13:00	40 03.151	178 14.138	04.7
9-Oct	282	13:15	40 03.775	178 15.405	04.6
9-Oct	282	13:30	40 04.445	178 16.722	04.9
9-Oct	282	13:45	40 05.095	178 17.927	04.6
9-Oct	282	14:00	40 05.768	178 19.241	04.9
9-Oct	282	14:15	40 06.457	178 20.511	04.7
9-Oct	282	14:30	40 07.111	178 21.838	04.6
9-Oct	282	14:45	40 07.716	178 23.059	04.7
9-Oct	282	15:00	40 08.376	178 24.335	04.7
9-Oct	282	15:15	40 09.034	178 25.698	04.6
9-Oct	282	15:30	40 09.686	178 26.838	04.7
9-Oct	282	15:45	40 10.335	178 28.112	04.7
9-Oct	282	16:00	40 10.954	178 29.361	04.8
9-Oct	282	16:15	40 11.608	178 30.654	04.6
9-Oct	282	16:30	40 12.251	178 31.933	04.7
9-Oct	282	16:45	40 12.952	178 33.276	04.9
9-Oct	282	17:00	40 13.571	178 34.474	04.8
9-Oct	282	17:15	40 14.623	178 35.540	04.1
9-Oct	282	17:18	40 15.016	178 35.432	04.1
9-Oct	282	17:30	40 15.591	178 34.955	04.7
9-Oct	282	17:45	40 16.493	178 34.042	04.7
9-Oct	282	18:07	40 17.662	178 32.363	04.1
9-Oct	282	18:15	40 17.661	178 31.781	04.0
9-Oct	282	18:30	40 17.075	178 30.611	04.5
9-Oct	282	18:45	40 16.403	178 29.295	04.7
9-Oct	282	19:00	40 15.703	178 28.003	04.8
9-Oct	282	19:15	40 15.117	178 26.747	04.7
9-Oct	282	19:30	40 14.455	178 25.579	04.7
9-Oct	282	19:45	40 13.807	178 24.294	04.9
9-Oct	282	20:00	40 13.166	178 23.024	04.7
9-Oct	282	20:15	40 12.484	178 21.719	04.6

9-Oct	282	20:30	40 11.851	178 20.462	04.5
9-Oct	282	20:45	40 11.196	178 19.204	04.7
9-Oct	282	21:00	40 10.583	178 18.000	04.2
9-Oct	282	21:15	40 09.955	178 16.877	04.5
9-Oct	282	21:30	40 09.348	178 15.588	04.7
9-Oct	282	21:45	40 08.683	178 14.358	04.3
9-Oct	282	22:00	40 08.108	178 13.154	04.7
9-Oct	282	22:15	40 07.315	178 11.670	04.5
9-Oct	282	22:30	40 06.731	178 10.509	04.7
9-Oct	282	22:45	40 06.184	178 09.420	04.8
9-Oct	282	23:00	40 05.542	178 08.161	04.6
9-Oct	282	23:15	40 04.874	178 06.976	04.8
9-Oct	282	23:30	40 04.195	178 05.662	04.8
9-Oct	282	23:45	40 03.600	178 04.340	04.2
10-Oct	283	00:00	40 02.926	178 03.136	04.6
10-Oct	283	00:15	40 02.926	178 03.136	04.7
10-Oct	283	00:30	40 01.646	178 00.614	04.8
10-Oct	283	00:45	40 00.980	177 59.331	04.7
10-Oct	283	01:00	40 00.441	177 58.001	05.3
10-Oct	283	01:15	40 01.275	177 56.914	04.5
10-Oct	283	01:30	40 02.241	177 56.061	04.6
10-Oct	283	01:45	40 03.144	177 55.279	04.5
10-Oct	283	02:00	40 04.139	177 54.399	04.4
10-Oct	283	02:15	40 05.018	177 53.891	04.3
10-Oct	283	02:30	40 05.735	177 55.227	05.1
10-Oct	283	02:45	40 06.316	177 56.344	04.7
10-Oct	283	03:00	40 07.059	177 57.547	04.7
10-Oct	283	03:15	40 07.712	177 58.987	04.6
10-Oct	283	03:30	40 08.347	178 00.199	04.7
10-Oct	283	03:45	40 08.949	178 01.449	04.8
10-Oct	283	04:00	40 09.359	178 02.741	03.8
10-Oct	283	04:15	40 09.250	178 03.828	02.8
10-Oct	283	04:30	40 08.779	178 04.413	02.4
10-Oct	283	04:45	40 08.194	178 04.867	03.1
10-Oct	283	05:00	40 07.474	178 05.562	02.6
10-Oct	283	05:15	40 07.086	178 05.889	02.6
10-Oct	283	05:30	40 06.537	178 06.351	02.9
10-Oct	283	05:45	40 06.018	178 06.830	02.0
10-Oct	283	06:00	40 05.343	178 07.389	03.5
10-Oct	283	06:15	40 03.220	178 07.767	05.4
10-Oct	283	06:30	40 04.530	178 06.605	04.6
10-Oct	283	06:45	40 05.518	178 05.801	04.8
10-Oct	283	07:00	40 06.523	178 04.975	04.6
10-Oct	283	07:15	40 07.285	178 05.517	02.8

10-Oct	283	07:30	40 06.894	178 06.070	02.3
10-Oct	283	07:45	49 96.357	178 05.407	02.3
10-Oct	283	08:00	40 05.796	178 07.023	02.5
10-Oct	283	08:15	40 05.126	178 07.621	02.8
10-Oct	283	08:30	40 04.624	178 08.060	03.2
10-Oct	283	08:45	40 03.983	178 08.579	03.2
10-Oct	283	09:00	40 03.358	178 09.160	02.3
10-Oct	283	09:15	40 02.803	178 09.634	03.1
10-Oct	283	09:30	40 02.177	178 10.157	03.5
10-Oct	283	09:45	40 01.499	178 10.700	03.4
10-Oct	283	10:00	40 00.870	178 11.345	03.0
10-Oct	283	10:15	40 00.173	178 11.978	03.2
10-Oct	283	10:30	39 59.466	178 12.570	03.7
10-Oct	283	10:45	39 58.344	178 13.528	03.3
10-Oct	283	11:00	39 58.161	178 13.723	03.7
10-Oct	283	11:15	39 57.468	178 14.326	03.0
10-Oct	283	11:30	39 59.737	178 14.905	02.8
10-Oct	283	11:45	39 56.054	178 15.490	03.6
10-Oct	283	12:00	39 55.348	178 16.093	03.2
10-Oct	283	12:15	39 54.676	178 16.703	02.5
10-Oct	283	12:30	39 54.043	178 17.325	03.6
10-Oct	283	12:45	39 53.318	178 17.943	02.7
10-Oct	283	13:00	39 52.623	178 18.544	02.6
10-Oct	283	13:15	39 51.931	178 19.109	03.5
10-Oct	283	13:30	39 51.234	178 19.710	03.5
10-Oct	283	13:45	39 50.556	178 20.411	03.4
10-Oct	283	14:00	39 49.762	178 21.009	03.7
10-Oct	283	14:15	39 49.092	178 21.651	03.2
10-Oct	283	14:30	39 48.379	178 22.247	03.7
10-Oct	283	14:45	39 47.627	178 22.841	03.8
10-Oct	283	14:50	39 47.326	178 23.173	03.6
10-Oct	283	15:00	39 46.495	178 23.718	05.0
10-Oct	283	15:15	39 47.958	178 24.329	04.8
10-Oct	283	15:30	39 23.523	178 23.516	03.1
10-Oct	283	15:45	39 47.281	178 22.542	04.4
10-Oct	283	16:00	39 46.737	178 21.427	04.2
10-Oct	283	16:15	39 46.137	178 20.299	04.3
10-Oct	283	16:30	39 45.562	178 19.179	04.2
10-Oct	283	16:45	39 44.991	178 17.951	04.2
10-Oct	283	17:00	39 44.442	178 16.904	04.2
10-Oct	283	17:15	39 43.865	178 15.724	04.2
10-Oct	283	17:18	39 43.710	178 15.390	04.2
10-Oct	283	17:30	39 43.206	178 14.376	04.3
10-Oct	283	17:38	39 62.838	178 13.762	05.2

10-Oct	283	17:45	39 42.661	178 13.367	04.4
10-Oct	283	18:00	39 42.047	178 12.035	04.5
10-Oct	283	18:15	39 41.448	178 10.950	04.7
10-Oct	283	18:45	39 40.222	178 08.512	04.2
10-Oct	283	19:00	39 39.595	178 07.287	04.3
10-Oct	283	19:15	39 38.976	178 05.976	04.4
10-Oct	283	19:30	39 38.432	178 04.931	04.4
10-Oct	283	19:45	39 37.868	178 03.672	04.6
10-Oct	283	20:00	39 38.357	178 02.436	04.5
10-Oct	283	20:15	39 39.281	178 01.577	04.4
10-Oct	283	20:30	39 40.205	178 00.720	04.5
10-Oct	283	20:45	39 41.147	177 59.967	04.6
10-Oct	283	21:00	39 42.102	177 59.145	04.5
10-Oct	283	21:15	39 42.943	177 58.362	04.3
10-Oct	283	21:30	39 43.966	177 58.427	04.3
10-Oct	283	21:45	39 44.555	177 59.465	04.4
10-Oct	283	22:00	39 45.160	178 00.668	04.3
10-Oct	283	22:15	39 45.772	178 01.840	04.2
10-Oct	283	22:30	39 46.356	178 03.038	04.3
10-Oct	283	22:45	39 46.925	178 04.179	04.3
10-Oct	283	23:00	39 47.550	178 05.306	04.3
10-Oct	283	23:15	39 48.097	178 06.369	03.9
10-Oct	283	23:30	39 48.659	178 07.496	04.0
10-Oct	283	23:45	39 49.182	178 07.600	04.2
11-Oct	284	00:00	39 49.714	178 09.719	04.1
11-Oct	284	00:15	39 50.371	178 10.801	04.4
11-Oct	284	00:30	39 51.014	178 11.938	04.3
11-Oct	284	00:45	39 51.575	178 13.094	04.1
11-Oct	284	01:00	39 52.110	178 14.245	04.2
11-Oct	284	01:15	39 52.690	178 15.425	04.2
11-Oct	284	01:30	39 53.291	178 16.519	04.2
11-Oct	284	01:45	39 53.959	178 17.834	03.9
11-Oct	284	02:00	39 54.367	178 18.629	03.8
11-Oct	284	02:15	39 54.918	178 19.716	04.0
11-Oct	284	02:30	39 55.494	178 20.821	04.0
11-Oct	284	02:45	39 56.025	178 21.882	04.0
11-Oct	284	03:00	39 56.560	178 22.949	03.9
11-Oct	284	03:15	39 57.157	178 23.960	04.1
11-Oct	284	03:30	39 58.251	178 24.217	04.7
11-Oct	284	03:45	39 58.999	178 23.801	02.5
11-Oct	284	04:00	39 59.755	178 23.161	02.5
11-Oct	284	04:15	40 00.033	178 22.872	02.5
11-Oct	284	04:30	40 00.545	178 22.336	02.8
11-Oct	284	04:45	40 01.122	178 21.752	03.8

11-Oct	284	05:00	40 01.857	178 21.033	03.6
11-Oct	284	05:15	40 01.921	178 20.135	03.3
11-Oct	284	05:30	40 01.262	178 19.137	04.3
11-Oct	284	05:45	40 00.975	178 18.487	02.5
11-Oct	284	06:00	40 00.599	178 17.815	02.6
11-Oct	284	06:15	40 00.241	178 17.098	02.7
11-Oct	284	06:30	39 59.673	178 16.040	04.2
11-Oct	284	06:45	39 59.125	178 14.883	04.2
11-Oct	284	07:00	39 58.595	178 13.821	03.9
11-Oct	284	07:15	39 58.049	178 12.836	03.8
11-Oct	284	07:30	39 57.518	173 11.852	03.7
11-Oct	284	07:45	39 56.966	178 10.759	03.8
11-Oct	284	08:00	39 56.404	178 09.564	03.9
11-Oct	284	08:15	39 55.891	178 08.650	03.8
11-Oct	284	08:30	39 55.362	178 07.674	03.8
11-Oct	284	08:45	39 54.877	178 06.682	03.9
11-Oct	284	09:00	39 54.355	178 05.712	03.8
11-Oct	284	09:15	39 53.830	178 04.696	04.0
11-Oct	284	09:30	39 53.308	178 03.642	04.1
11-Oct	284	09:45	39 52.738	178 02.565	04.0
11-Oct	284	10:00	39 52.199	178 01.505	03.9
11-Oct	284	10:15	39 51.647	178 00.418	04.1
11-Oct	284	10:30	39 51.047	177 59.245	04.1
11-Oct	284	10:42	39 50.483	177 58.177	03.9
11-Oct	284	11:00	39 49.898	177 57.097	03.9
11-Oct	284	11:15	39 49.365	177 55.992	04.1
11-Oct	284	11:30	39 48.835	177 54.860	04.1
11-Oct	284	11:45	39 48.239	177 53.762	03.9
11-Oct	284	12:00	39 47.638	177 52.659	04.2
11-Oct	284	12:15	39 47.031	177 51.519	04.3
11-Oct	284	12:30	39 47.123	177 50.421	04.3
11-Oct	284	12:45	39 48.008	177 49.617	04.4
11-Oct	284	13:00	39 48.879	177 48.810	04.3
11-Oct	284	13:15	39 49.834	177 48.267	04.2
11-Oct	284	13:30	39 50.471	177 49.329	04.1
11-Oct	284	13:45	39 51.077	177 50.468	04.3
11-Oct	284	14:00	39 51.675	177 51.634	04.5
11-Oct	284	14:15	39 52.269	177 52.822	04.3
11-Oct	284	14:30	39 52.857	177 54.037	04.5
11-Oct	284	14:45	39 53.447	177 55.246	04.5
11-Oct	284	15:00	39 54.069	177 56.418	04.3
11-Oct	284	15:15	39 54.705	177 57.604	04.3
11-Oct	284	15:30	39 55.300	177 58.729	04.3
11-Oct	284	15:45	39 55.920	177 59.937	04.4

11-Oct	284	16:00	39 56.548	177 01.161	04.4
11-Oct	284	16:15	39 57.104	178 02.309	04.5
11-Oct	284	16:30	39 57.704	178 03.511	04.5
11-Oct	284	16:45	39 58.334	178 04.712	04.3
11-Oct	284	17:00	39 58.954	178 05.953	04.4
11-Oct	284	17:15	30 59.542	178 07.072	04.4
11-Oct	284	17:30	40 00.217	178 08.347	04.5
11-Oct	284	17:45	40 00.178	178 09.475	04.3
11-Oct	284	17:54	40 01.242	178 10.425	04.3
11-Oct	284	18:00	40 01.373	178 10.682	04.4
11-Oct	284	18:15	40 02.068	178 12.006	04.4
11-Oct	284	18:30	40 02.634	178 13.122	04.3
11-Oct	284	18:45	40 93.255	178 14.301	04.4
11-Oct	284	19:00	40 03.810	178 15.423	04.6
11-Oct	284	19:15	40 04.467	178 16.630	04.4
11-Oct	284	19:30	40 05.034	178 17.807	04.4
11-Oct	284	19:45	40 05.647	178 18.994	04.2
11-Oct	284	20:00	40 06.223	178 20.250	04.4
11-Oct	284	20:15	40 06.805	178 21.499	04.5
11-Oct	284	20:30	40 07.394	178 22.687	03.7
11-Oct	284	20:45	40 06.435	178 22.533	04.4
11-Oct	284	21:00	40 05.273	178 22.003	04.4
11-Oct	284	21:15	40 04.330	178 21.609	04.2
11-Oct	284	21:30	40 03.249	178 21.121	04.9
11-Oct	284	21:45	40 02.169	178 20.644	04.5
11-Oct	284	22:00	40 01.146	178 20.212	04.0
11-Oct	284	22:15	40 00.076	178 19.818	04.6
11-Oct	284	22:30	39 59.001	178 19.352	04.4
11-Oct	284	22:45	39 57.961	178 18.874	04.4
11-Oct	284	23:00	39 56.883	178 18.417	04.4
11-Oct	284	23:15	39 55.803	178 17.971	04.6
11-Oct	284	23:30	39 54.840	178 17.544	04.4
11-Oct	284	23:45	39 53.756	178 17.038	04.6
12-Oct	285	00:00	39 53.732	178 16.120	04.6
12-Oct	285	00:15	39 54.747	178 15.441	04.3
12-Oct	285	00:30	39 55.672	178 14.557	04.8
12-Oct	285	00:45	39 56.626	178 13.705	04.7
12-Oct	285	01:00	39 57.596	178 12.963	04.7
12-Oct	285	01:15	39 58.662	178 12.100	04.7
12-Oct	285	01:30	39 59.534	178 11.266	04.6
12-Oct	285	01:45	40 00.455	178 10.350	04.7
12-Oct	285	02:00	40 01.408	178 09.529	04.7
12-Oct	285	02:15	40 02.424	178 08.658	04.2
12-Oct	285	02:30	40 03.210	178 07.937	04.3

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CRUISE: NBP0304D

IALS, NEGATIVE SIGNS, OR COLONS ARE NEEDED

CMG	Depth (M)	Gravity	Magnetics	Salinity	Ext Temp
040.8	501				
055.3	501				
054.8	479				
044.7	454				
042.9	449				
050.5	431				
045.6	417				
119.4	438				
172.5	489				
175.0	570				
047.1	627				
039.7	614				
038.6	585				
042.6	544				
043.8	522				
039.2	494				
039.4	501				
029.9	477				
095.6	781				
180.8	600				
178.7	672				
205.0	782				
205.1	962				
206.6	1031				
205.5	1098				
206.4	1152				
181.3	1170				
139.5	1225				
125.5	1266				
108.2	1275				
119.2	1299				
124.4	1379				
124.7	1298				
128.9	1283				
120.4	1337				
118.1	1331				
119.7	1299				

121.5	1203
123.4	1362
118.9	1510
125.1	1519
122.4	1401
122.5	1338
125.3	834
122.3	578
124.9	960
124.6	889
125.1	627
123.1	668
120.6	705
121.1	937
120.5	1478
118.9	1965
124.5	2371
125.4	2700
123.2	2609
123.4	2460
124.9	2660
129.3	2935
118.3	2922
121.9	2994
124.4	3011
119.3	3069
124.7	3111
123.2	3144
128.8	3275
123.3	3151
182.2	3187
204.0	3194
216.8	3192
215.9	3207
260.5	3121
283.1	3095
311.9	3092
308.6	2901
305.0	2875
319.7	2798
308.0	2732
304.4	2767
307.3	3181
302.9	2705

303.7	2732
295.6	2663
307.0	2704
300.8	2661
305.5	2623
300.2	3324
306.6	2604
306.8	1386
305.2	1151
307.9	1107
303.8	998
309.1	1316
300.6	1365
305.4	1268
307.0	1040
298.8	1000
305.2	1262
307.0	1440
259.3	1541
214.1	1541
213.1	1558
214.5	1570
213.7	1574
179.6	1671
123.8	1553
125.5	1381
121.0	1316
123.1	1655
121.8	1530
120.0	1452
100.1	1933
064.4	1955
035.4	1933
033.9	1908
042.9	1828
033.1	1787
040.2	1752
037.2	1710
035.5	1440
321.3	1150
212.9	1283
212.5	1422
210.8	1629
090.9	1795

55106.2
55106.4
55104.8
55103.2
55102.1
55091.0
55070.0

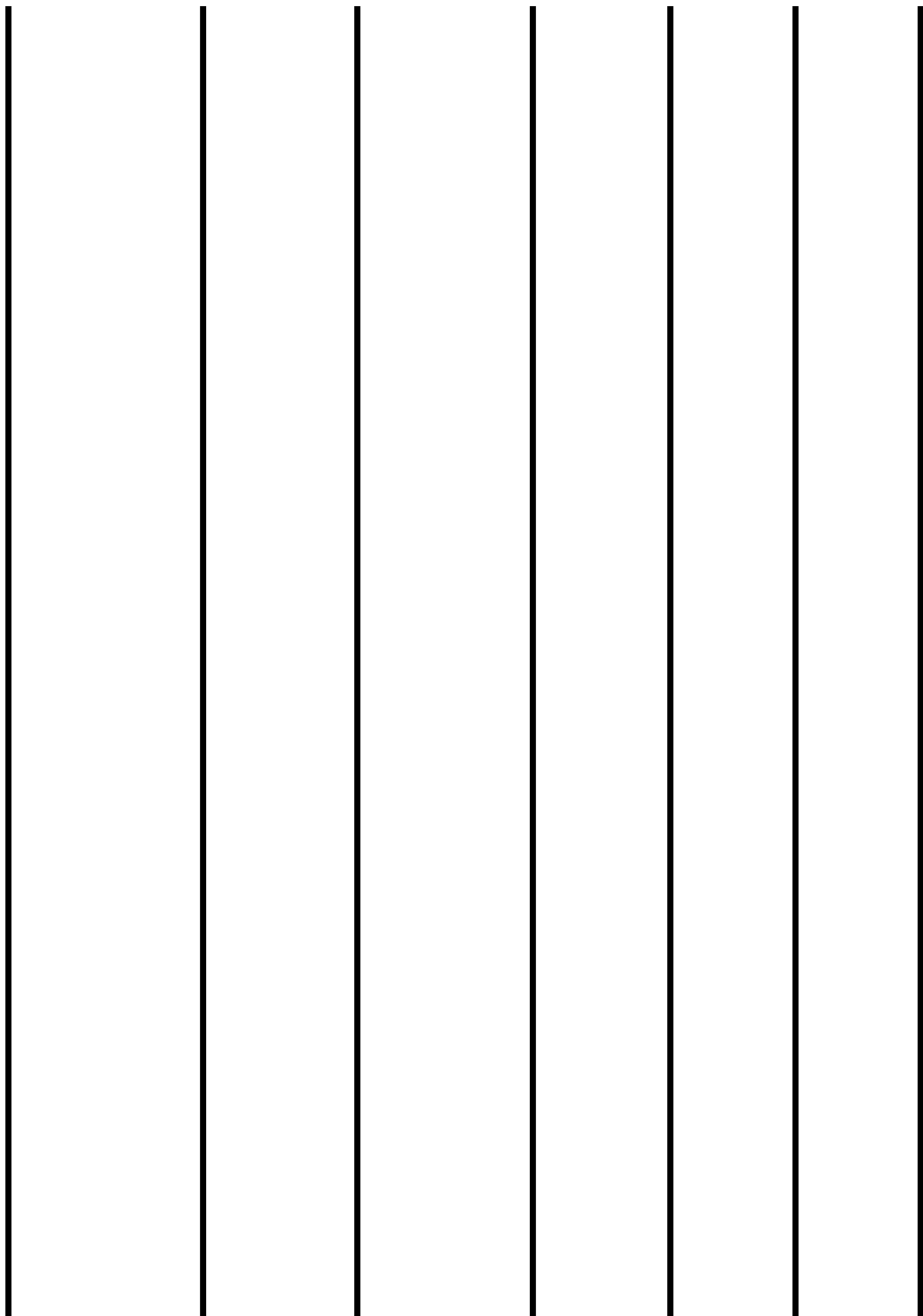
032.5	1772
029.6	1730
032.3	1702
037.9	1400
029.0	1358
035.1	1296
036.2	1143
033.2	1000
032.1	705
035.8	620
034.4	626
032.7	660
035.2	746
035.9	784
037.6	869
038.4	925
031.3	1002
030.8	1043
028.5	1123
029.1	1192
038.9	1162
032.2	1199
029.3	1190
033.2	1185
034.3	1160
036.9	1131
032.4	1164
037.1	1138
025.2	1039
035.6	881
040.6	819
080.0	868
211.6	1195
328.3	1046
301.3	808
300.5	895
302.1	969
307.6	880
301.6	779
300.0	527
303.7	303
306.1	592
310.2	702
310.4	957

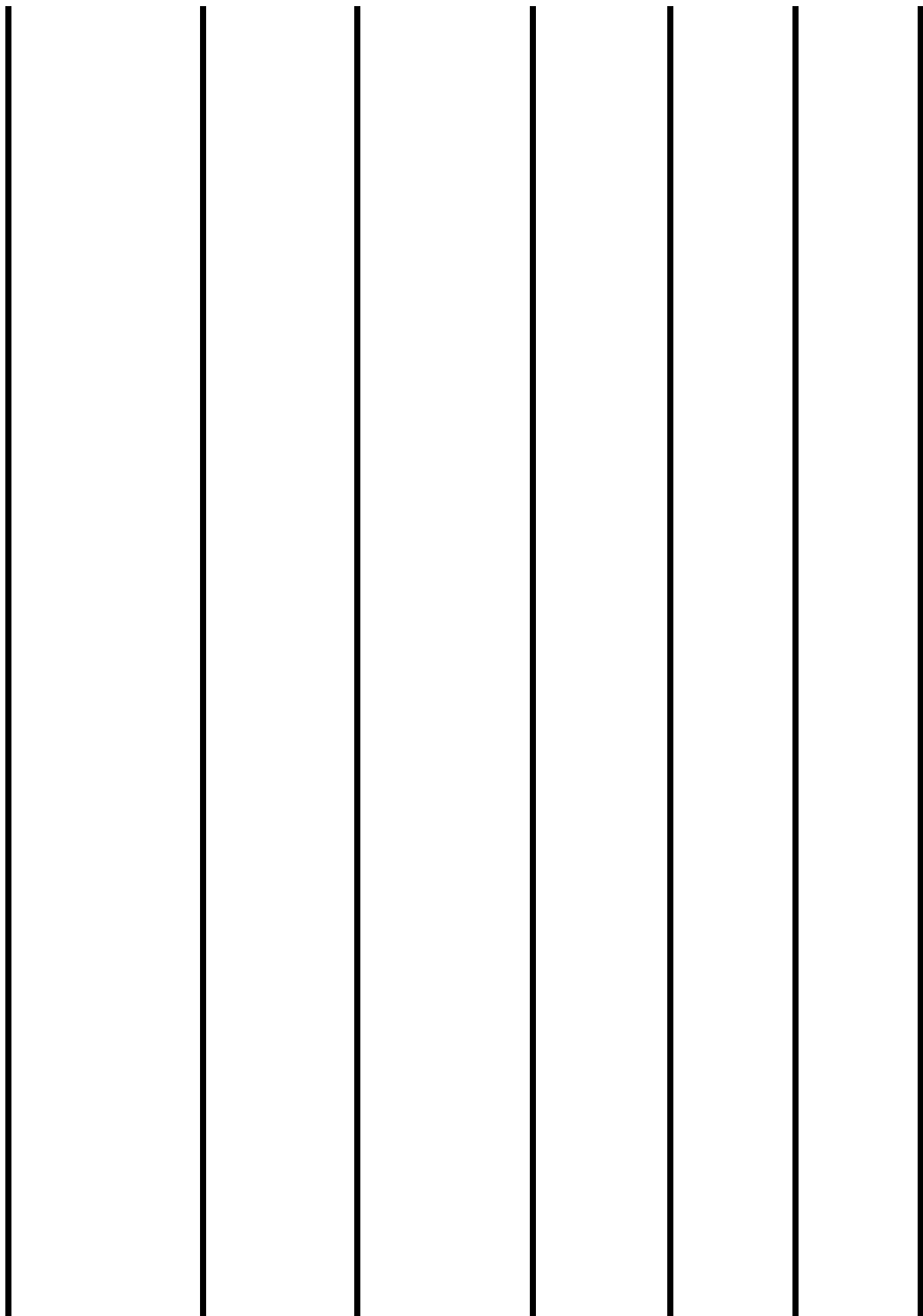
297.5	966	
304.4	889	
301.8	794	
303.4	793	
305.1	804	
300.1	812	
302.3	830	
276.0	886	
220.7	918	
213.8	957	54956.8
214.8	1003	54970.8
210.4	1038	54986.0
216.4	1077	55006.2
215.1	1109	55018.6
115.9	1133	55040.7
129.2	1126	55052.4
125.9	1117	55062.8
122.5	1130	55068.9
124.2	1100	55066.3
127.9	1089	55057.8
122.5	1057	55047.4
125.5	1077	55031.5
128.8	1307	55015.8
120.3	1298	55002.8
127.8	1116	54998.2
130.0	824	55004.4
125.4	1132	55021.7
121.8	1147	55040.1
123.9	1279	55063.4
127.8	1003	55074.7
124.5	1176	55063.6
121.2	1256	55040.3
123.8	1601	55021.2
123.0	1897	55001.2
123.4	1931	54987.4
122.8	1927	54974.9
124.0	1820	54969.3
140.0	1863	54968.9
193.9	2138	
205.2	2158	
216.6	2201	
219.1	2209	
217.7	2230	
218.6	2141	

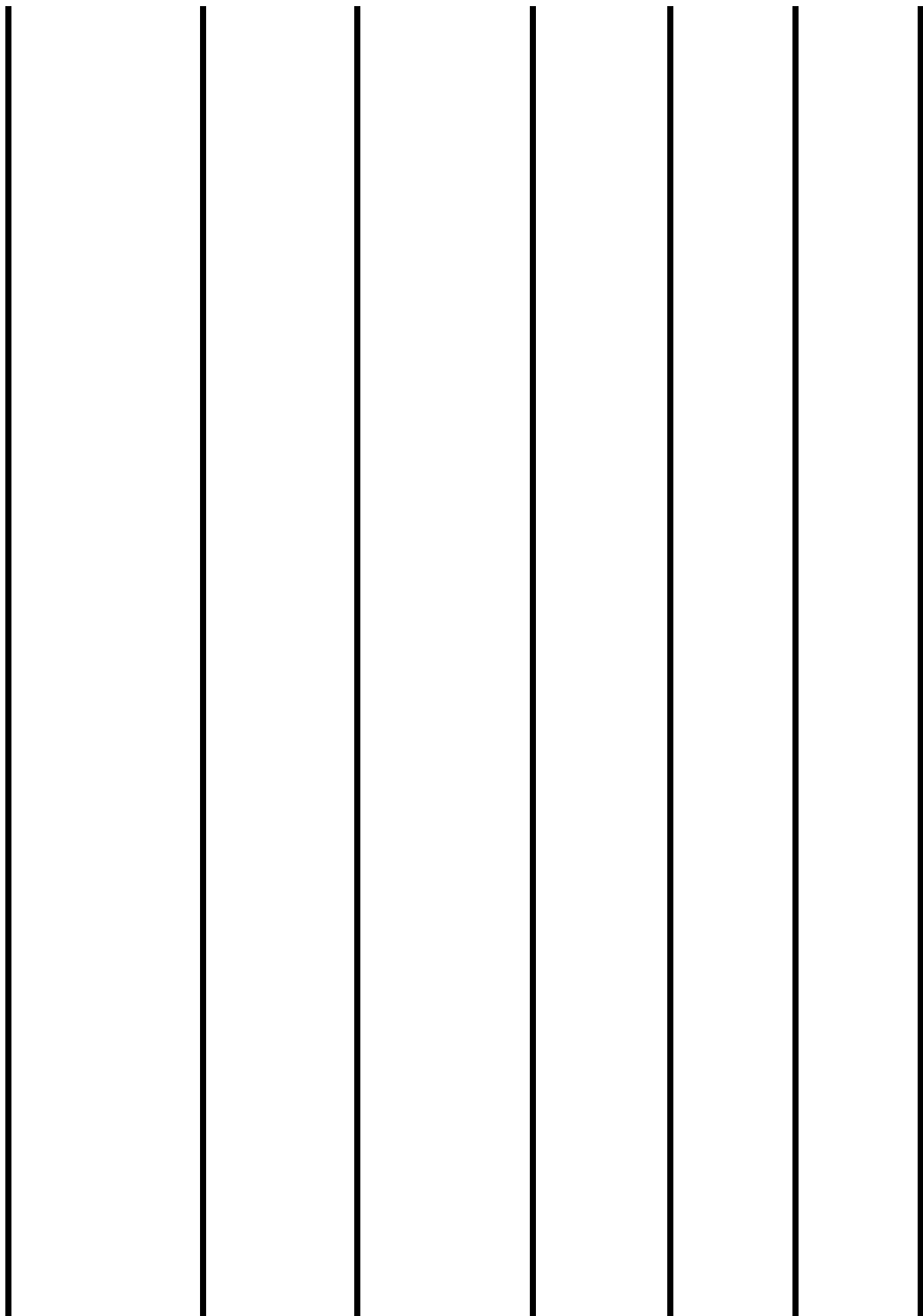
216.8	2156	
309.7	2137	
300.2	1998	
313.9	1905	
303.7	1622	
304.1	1533	
301.0	1351	55031.5
300.2	1133	55048.8
304.2	850	55054.9
307.9	924	55058.4
307.9	1036	55067.2
301.8	1080	55080.0
304.4	715	55090.3
308.0	824	55091.0
301.2	1200	55081.0
303.7	1188	55079.4
308.1	1375	55084.7
305.4	1480	55093.8
304.7	1494	55108.6
304.8	1296	55130.2
304.1	1162	55152.8
304.0	1222	55178.8
303.7	1246	55198.0
306.0	1258	55209.9
306.5	1204	55214.3
301.7	1203	55210.3
303.7	1249	55205.0
307.1	1254	55192.1
305.3	1246	55174.5
303.8	1225	55151.7
217.4	1206	55137.6
216.0	1226	55159.3
215.6	1232	55181.3
160.6	1264	55205.5
124.3	1291	55226.6
122.8	1329	55240.5
124.2	1331	55249.3
123.9	1286	55250.6
121.6	1288	55248.3
124.2	1319	55241.1
126.3	1227	55230.3
128.2	1189	55214.7
123.5	1230	55194.0
124.2	1459	55169.9

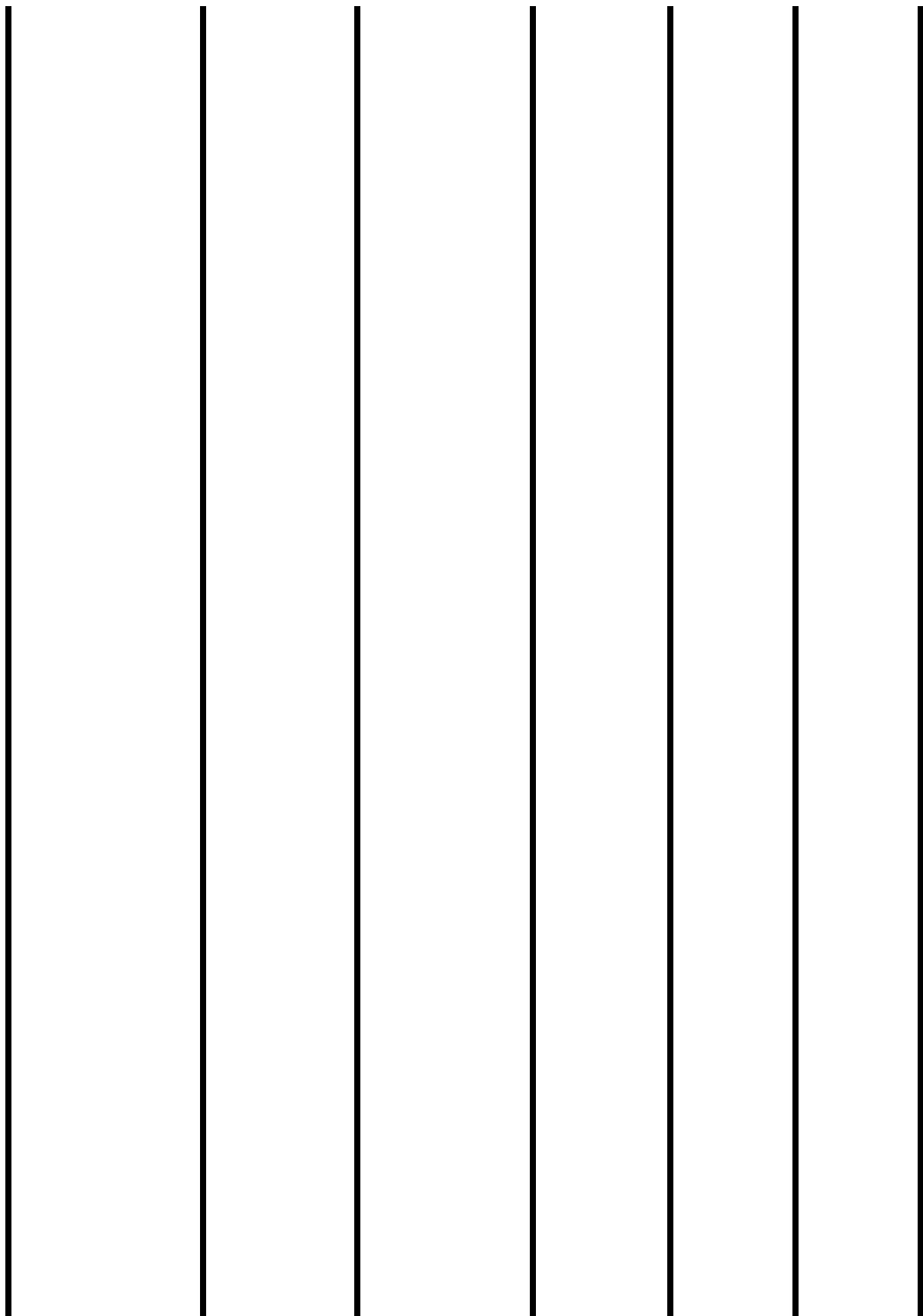
122.7	1521	55148.4
118.6	1503	55130.5
122.1	1257	55116.1
123.1	1249	55106.0
123.3	663	55099.0
125.2	562	55083.0
125.0	891	55063.0
120.9	751	55055.0
124.4	610	55057.2
121.7	608	55061.1
123.8	682	55064.5
125.0	706	55060.7
120.9	1021	55051.4
123.4	1498	55036.1
123.4	1933	55023.7
120.6	2353	55019.6
120.5	2692	55021.3
121.0	2649	55035.4
128.4	2505	55047.1
078.8	2582	55047.5
342.0	2751	55041.7
341.3	2717	55021.8
343.0	2615	55006.0
340.0	2457	54996.9
343.1	2179	54990.1
342.6	2049	54980.2
345.0	1802	54973.1
338.9	1797	54971.6
343.5	1801	54983.4
339.4	1745	54996.6
339.4	1617	55008.8
339.8	1505	55018.7
341.7	1089	55037.7
198.0	1111	55038.1
217.1	1222	55034.5
214.4	1113	55042.7
212.8	1014	55049.5
207.1	977	55054.0
217.2	920	55055.3
216.4	811	55057.5
219.4	662	55058.4
211.1	673	55054.2
215.3	790	55049.0
215.2	948	55049.4

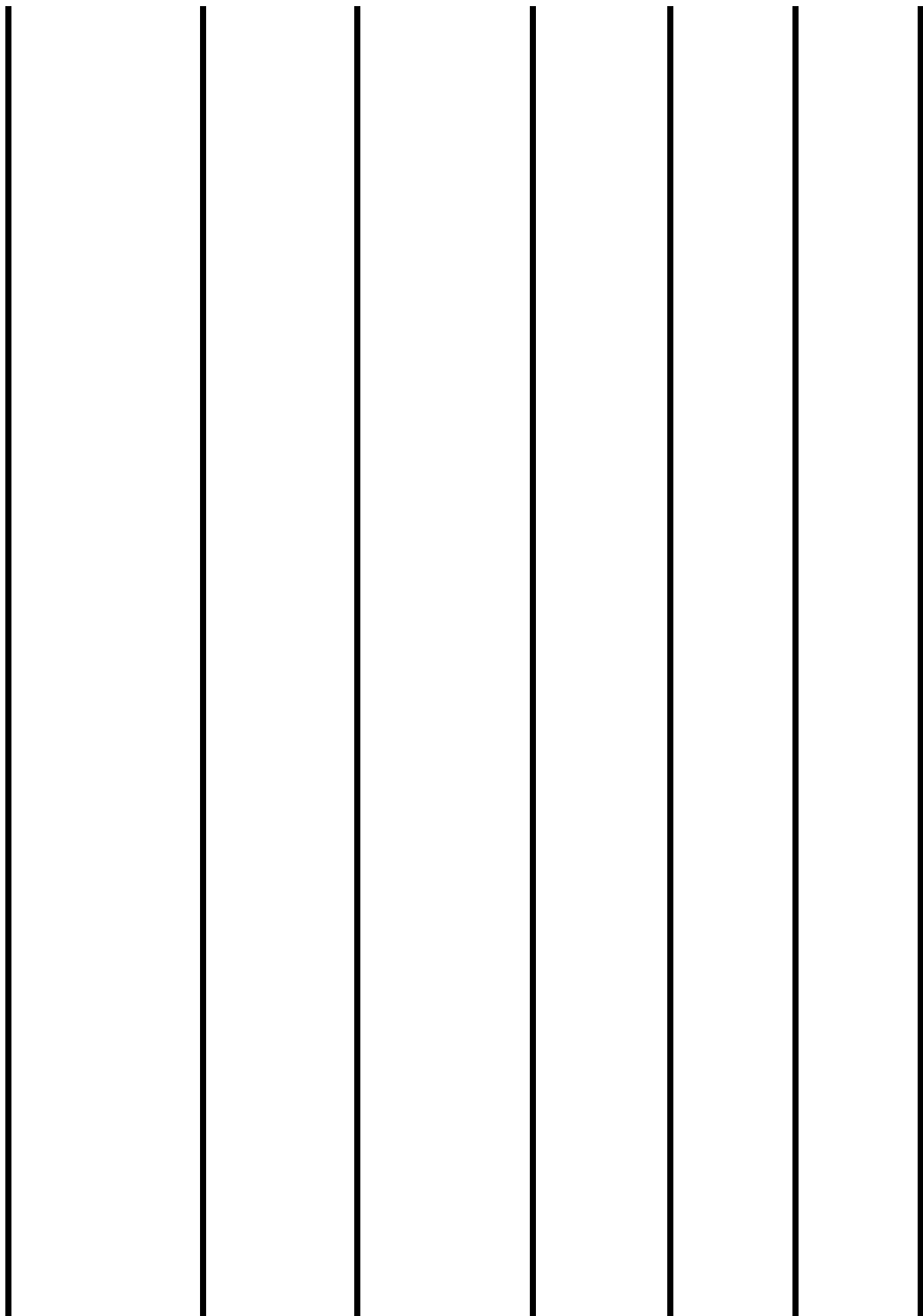
213.7	1151	55058.4
215.1	1412	55074.8
213.1	1685	55086.9
212.7	1647	
202.3	1700	
193.4	1807	
026.5	1895	
030.4	1759	
032.3	1726	
036.0	1686	
328.5	1496	
213.3	1920	55088.4
214.5	2164	55100.4
214.5	1854	55113.2
213.7	2175	55125.3

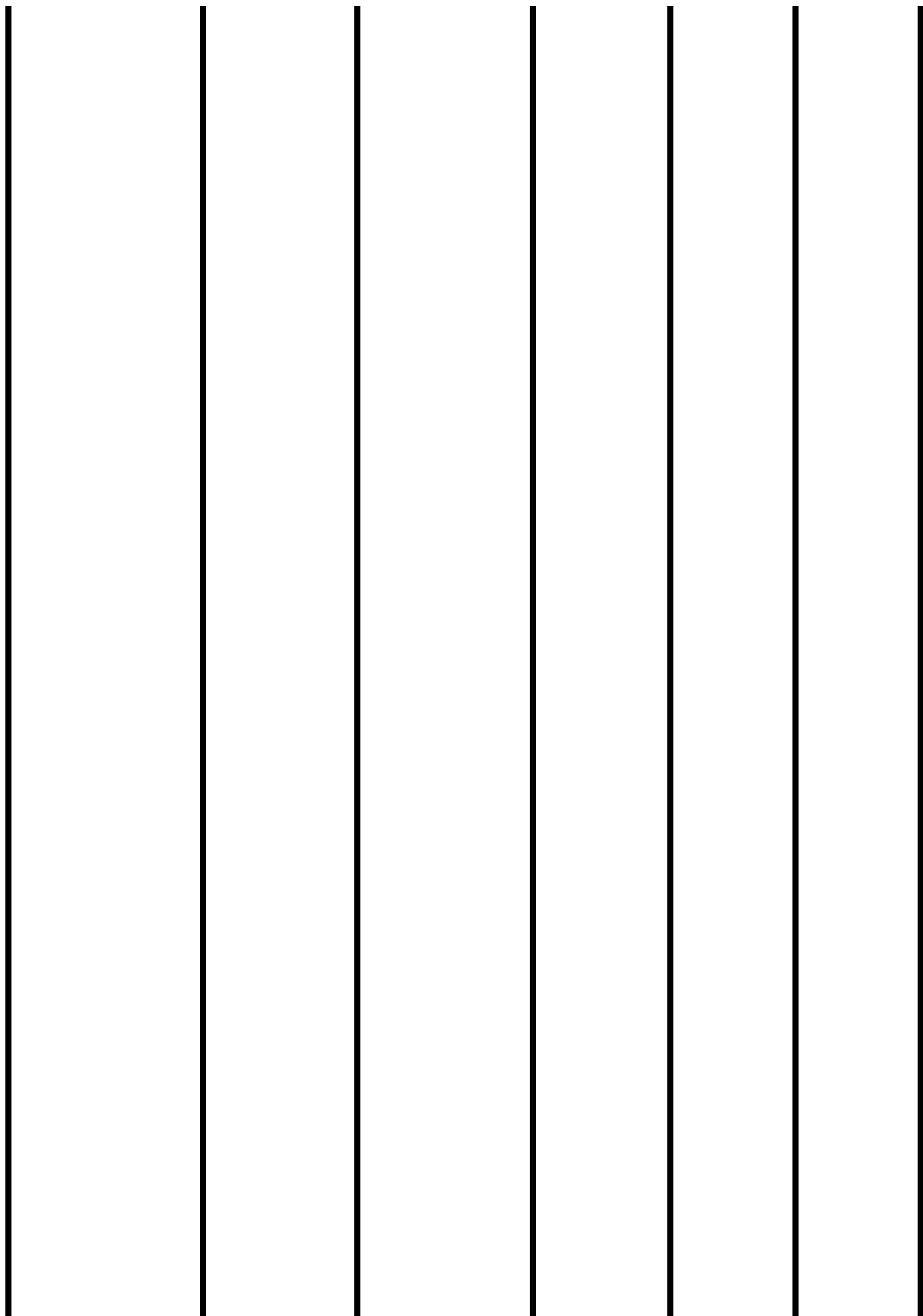


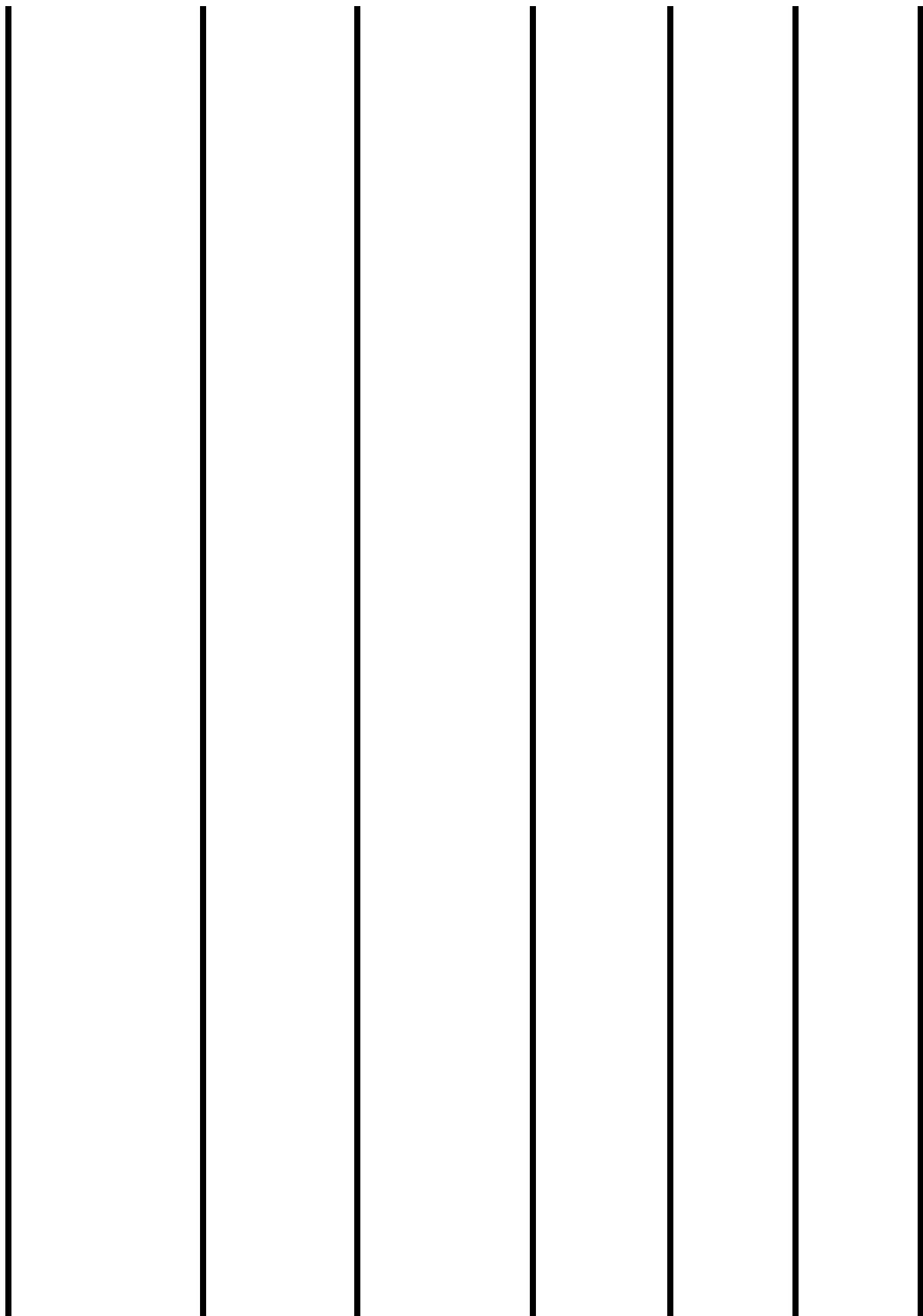


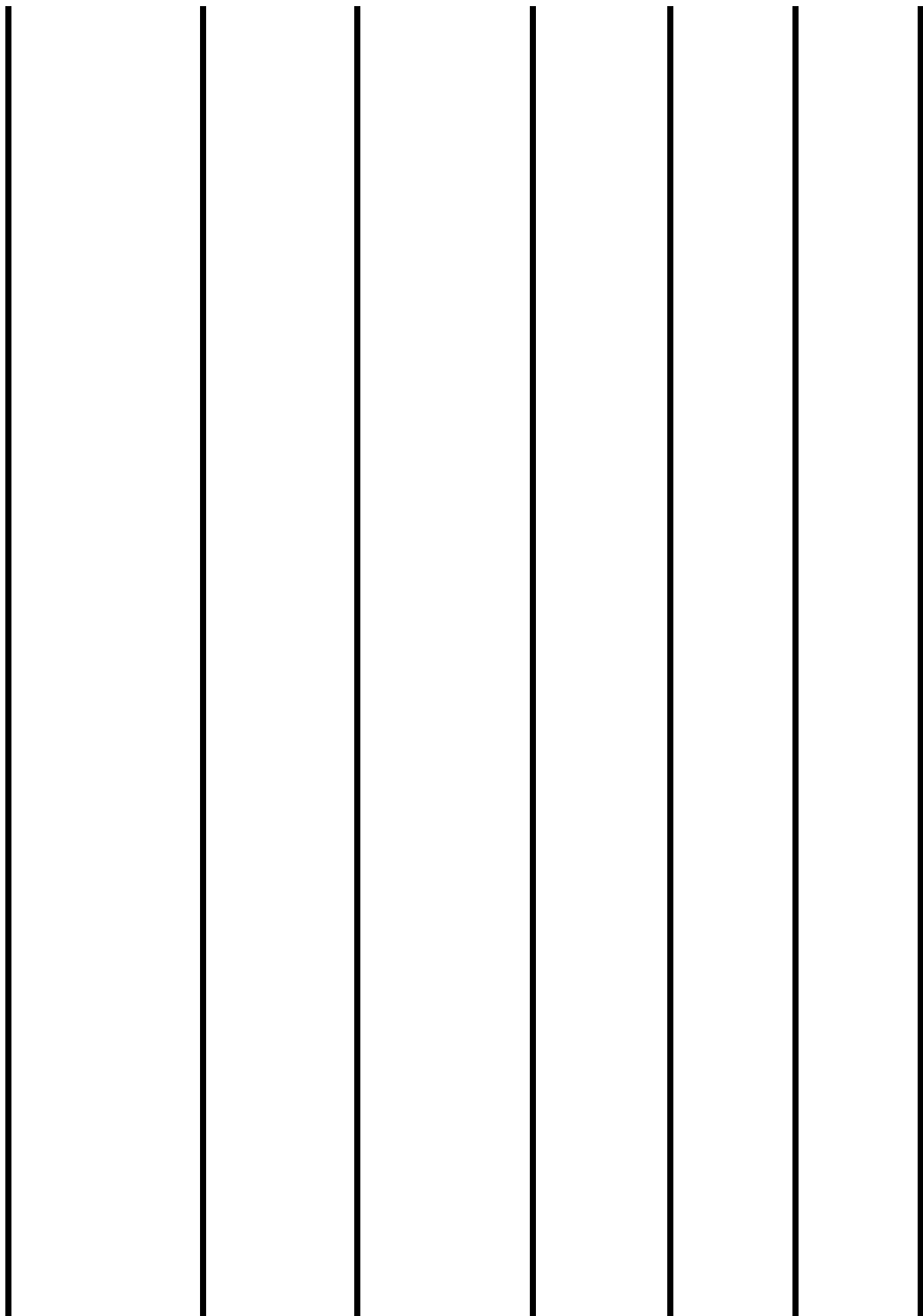


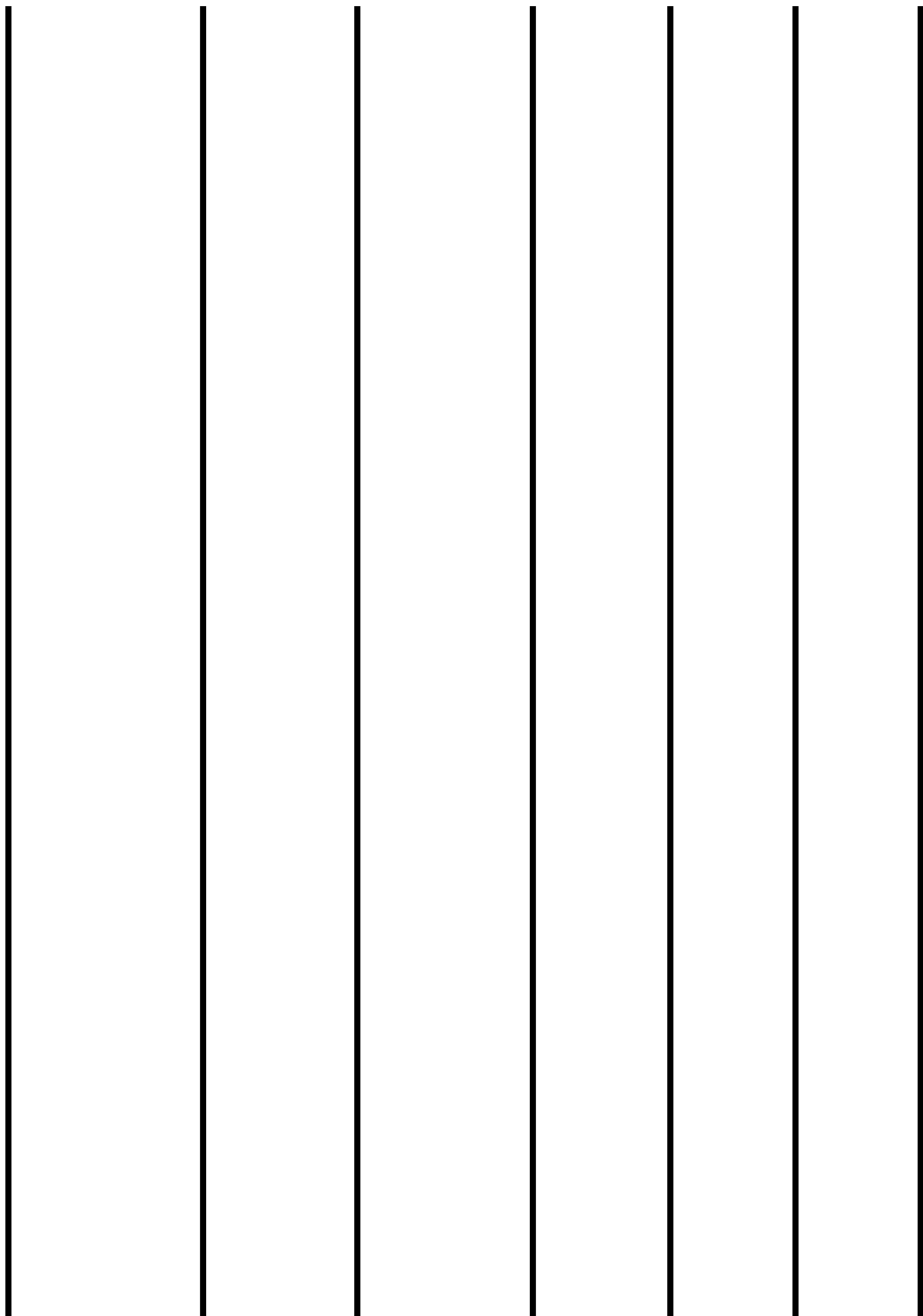


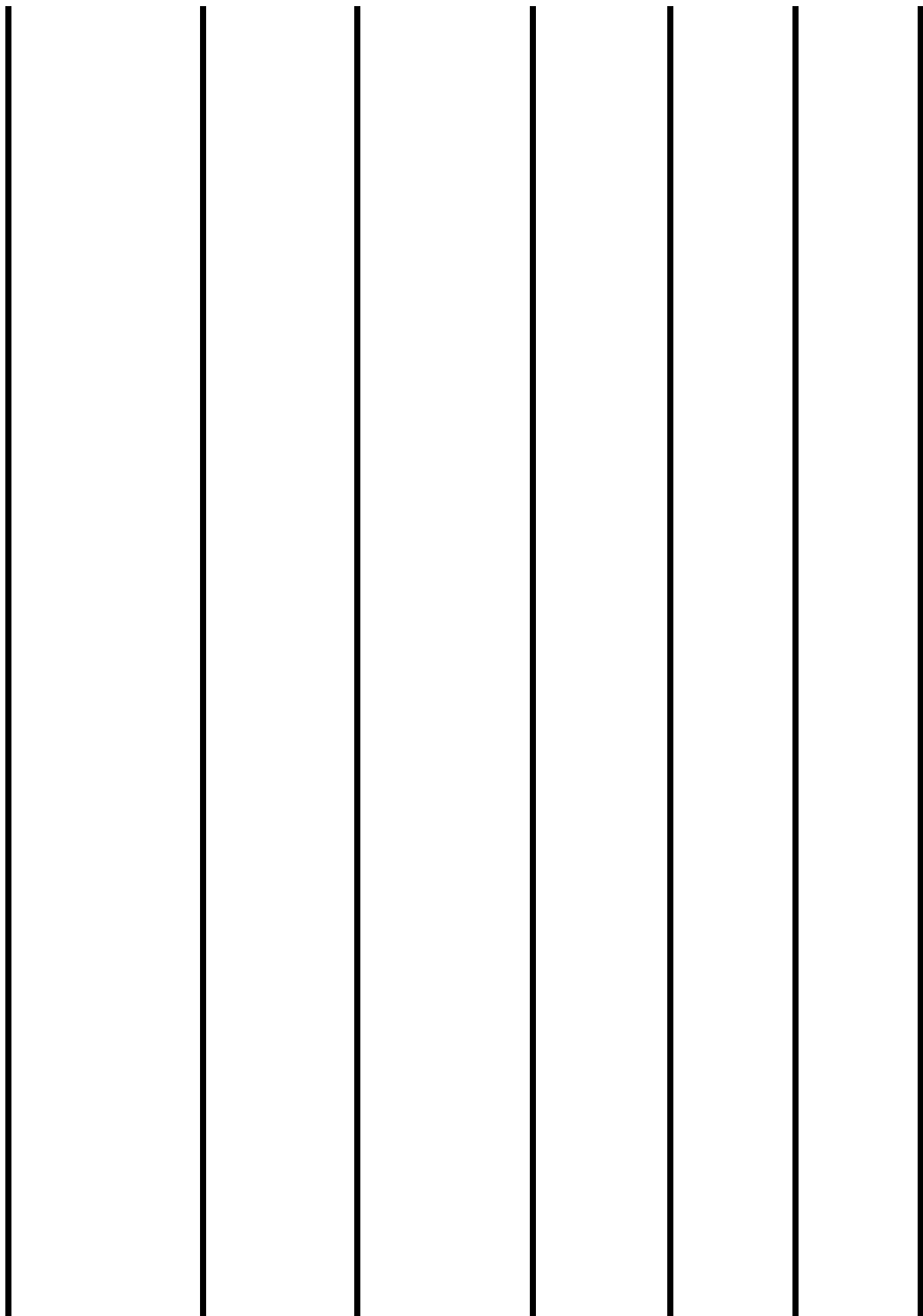


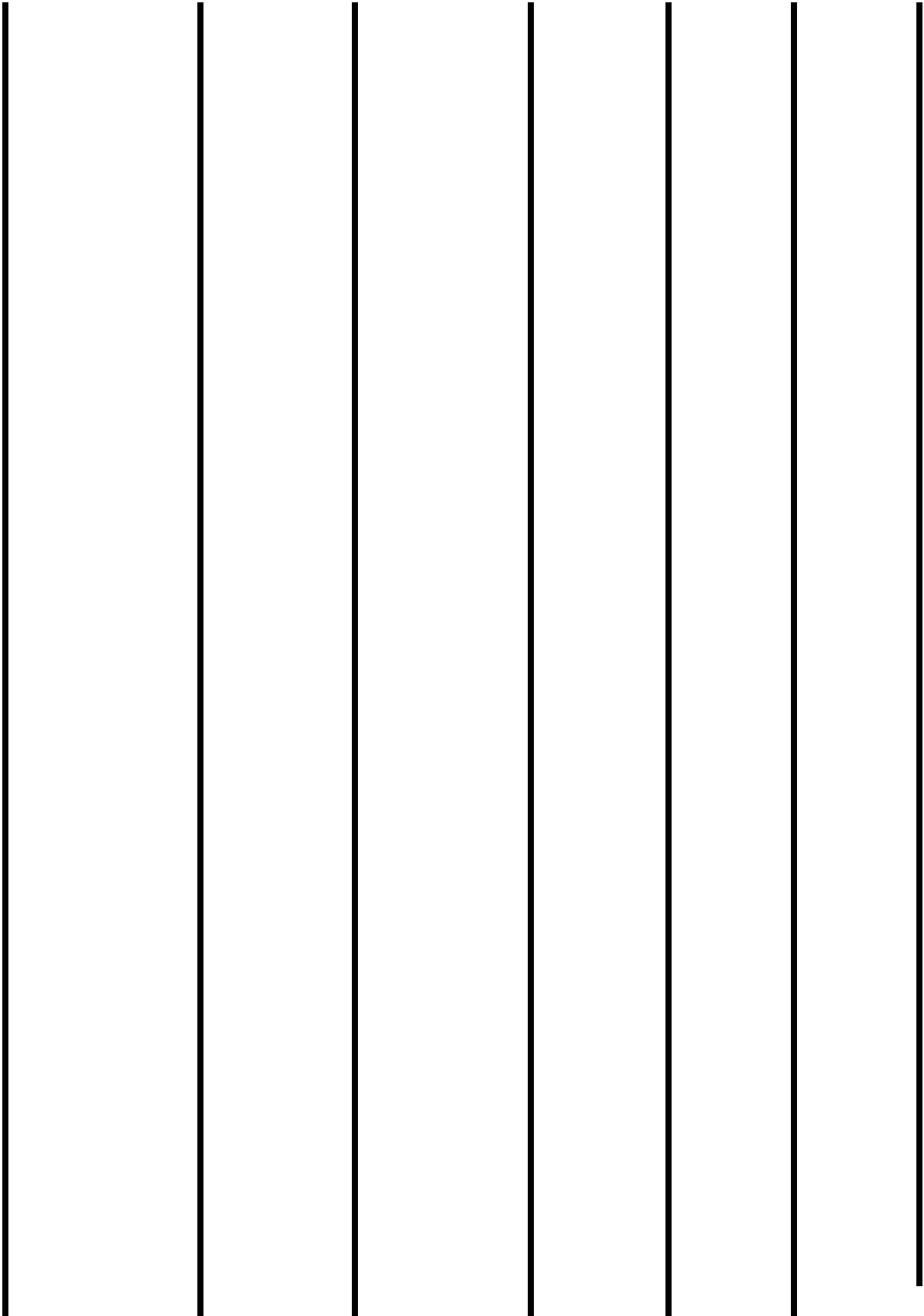












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pC02	Shot # (OY	Comments and Observations
		slowed to put GI guns in water
		1:42 all guns are firing
		streamer on 4:55
	699	
	740	
	787	
	831	
	875	
	920	
	118	Start recording, starting shot 100 @06:39
	163	
	212	Xyoli off, Ben on
	252	
	302	Reached beginning of track1
	343	Multibeam too eratic, depth taken from bathy
	386	
	431	
	477	Multibeam too eratic, depth taken from bathy
	519	
	566	
	614	

657	
701	
748	
791	
837	
882	ben off mimi on
927	multibeam erratic, depth taken from bathy
972	
1017	
1062	
1107	
1152	
1197	
1242	
1287	
1332	
1377	
1422	
1467	
1513	
1557	
1605	ca. 1459-1510 acq. Lost, airguns not synchronized, re-start
1648	
1693	
1735	
1780	
1826	
1870	
1915	start writing to tape 5
1956	
2009	
2018	changed to LINE 102
2051	
2096	
2156	changed to LINE 103
2188	
2229	
2277	
2323	
2366	start writing on tape 6
2412	
2456	
2501	
2546	

2592	
2635	
2683	
2727	
2774	
2818	
2861	
2914	
2959	MBc is picking multiples
2997	
3042	
3085	
3136	
3176	
3221	
3268	
3311	
3357	
3401	Line 2t
3447	
3493	
3536	
3584	
3622	Start Line 3
3684	
3736	
3802	wirting in tape 9
3862	
3922	
3981	
4040	turining towards line 4 (writing line 105), change mzx. Depth to 2500 and
4100	
4163	
4219	Maggie started swimming @ 04:41
4290	
4340	
4399	
4420	Power cycling the maggie.
	Change gate to 1000-2000 in Bathy 2000. Seismics crashed. Increase s
4500	Restart shooting, moggie in @ 06:24
4566	
4625	
4625	
4750	

4808
4862
4924
4995
5046
5103 Changed bathy settings. Max=1500 Min=500 Gate=750 Range=750-1500
5161
5223
5283
5343 9:45 changed simrad- 100-1100
5405 changed bathy settings Max = 1000
5464
5525
5582
5643 changed bathy settings Max = 1250
5704 11:12--bathy phase changed to 750-1500
5764
5824
5884
5944
6004
6064
6124
6184
6244
6304
6364
6424
6484
6544 bathy phase changed: 500-1000
6571 starting outside turn line 5/6
6603 still turning, bathy+multibeam set to 750-1250
6664 still turning, bathy+multibeam set to 1000-1500
6725 still turning; bathy+multibeam set to 750-1250 (@15:25)
6784 BOL 5 (@15:43); bathy+multibeam set to 500-1000; back to 4.5 knots
6844 bathy+multibeam set to 750-1250
6904
6964 bathy+multibeam set to 500-1000
7024
7084
7144 Bathy changed to 250-750 m Power level -6dB. Multibeam does not function
7162 Multibeam working again (set to medium) Bathy changed to 500-1000m
7211
7250 Bathy changed 750-1250 m

7266	
7330	
7385	
7501	
7565	
7631	
7681	
7744	streamer off @ 19:42, shot 7743
7804	streamer on @ 19:54, shot 7779
7867	Maggie in @ 20:09, begin line 6 (seismics) @ 19:59
7929	Bathy2000 disconnected from EPC @ 20:27
7986	Acquisition error @ 20:43, shot 7981
8049	Acquisition back @ 20:59, shot 8037
8093	Single channel connected, channel 41 & 43 bad
8156	Start line 107, shot 8154
8211	
8272	
8333	
8394	
8454	
8513	
8572	
8632	bathy changed , 1000 to 1500
8691	
8751	bathy changed, 750 to 1250
8812	
8869	
8930	bathy changed, 1000 to 1500
8988	
9051	bathy changed, 750 to 1250
9108	bathy changed, 1000 to 1500
	seismic system crash 1:41
9188	bathy changed, 1250 to 1750 , seismic back 1:49
9248	bathy changed, 1500 to 2000 then 1750 to 2250
9309	
9368	
9429	
9489	Turning towards I7t, maggie off @ 03:25
9517	Last shot, pulling streamer, chingin OYO
120	Line 108, streamer off, writing in tape 3, recording 5s, sample rate 1 ms
165	
239	
313	

389	not recording single or multi channel
454	computer crashed
	changed phase I nbathy to 1750-2250
548	Recording for testing
	changed pahse in bathy 1500-2250, and range to 750
639	changed bathy phase to 1125-1875
715	Marine mammal (seal) around
790	Change phase of bathy 750-1500
862	
930	
1005	
1070	
1149	Changed bathy phase to 375-1125
1150	Seismic display is blank
1210	Change phase of bathy 750-1500
1256	
1328	
1378	changed phase of bathy to 1125-1875
1451	
1527	Change phase of bathy 750-1500
1601	
1662	
1729	
1781	
1874	ben off mimi on
1949	
2024	
2099	
2174	
2237	
2312	
2382	
2448	
2523	
2598	
2673	changed bathy gate: 1000-2000 m
2748	
2823	
2898	
2973	
3048	
3123	bathy+multi gate 500-1500 m
3198	bathy 1000-2000; multibeam: 900-1700 m
3273	15:55: multibeam from medium to deep

3348
3423
3498 bathy: 500-1500; MB: medium, 450-1250; interference off; range gate la
3573 16:55: on top of S. Ritchie Banks, everything seems to work fine
3648
3729
3808
3878
3938 Bathy2000 - changed printer paper
3954
4036
4109
4183 Ping mode changed from medium to deep, min depth 1100, max depth :
4251 Bathy 2000 phase 1000-2000 m
4325 Bathy phase 1500-2500
4400 Bathy phase 2000-3000, max. depth 3000
4475
4552
4626
4678 started line 109 of seismic
4736
4800
4857
4915
4977 Bathy phase 1500-2500
5037
5095
5155 22:18, sonobuoy deployed;CMG 338.2;shot# 5112
5216
5279 bathy phase 1000 - 2000
5339
5391 bathy phase 750 - 1500

5443 Line 110 at 23:58 shot #5435
5483 00:16 sonobuoy, shot# 5487, S39 54.800 E178 15.392
5526 nothing on sonobuoy display
5565 00:47, sonobuoy , shot#5574, S39 56.838 E178 13.538
5603
5647 bathy phase 500 - 1000
5685
5727
5767
5811
5848 bathy phase 750 - 1500

5887

5931 Bathy phase 1000-2000

5971 stopped shooting

6006

6033

6061 bathy phase 1500-2500

FRAM hang, 4:07

system restart, 4:25

Bathy phase 1000-2000;maggie out 900 ft. ;turning S to Lyttleton

Bathy phase 1500-2500

maggie back in 6:12

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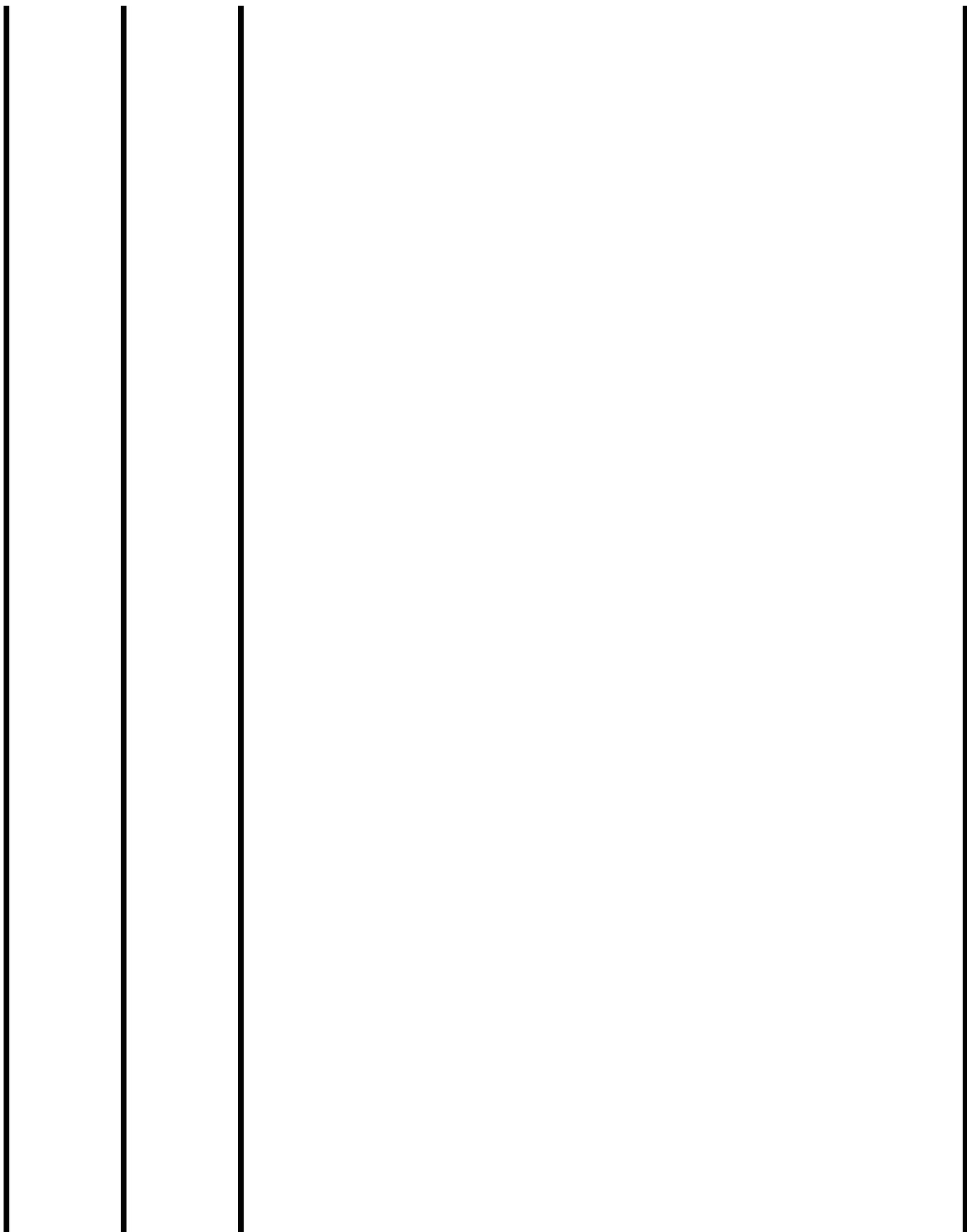
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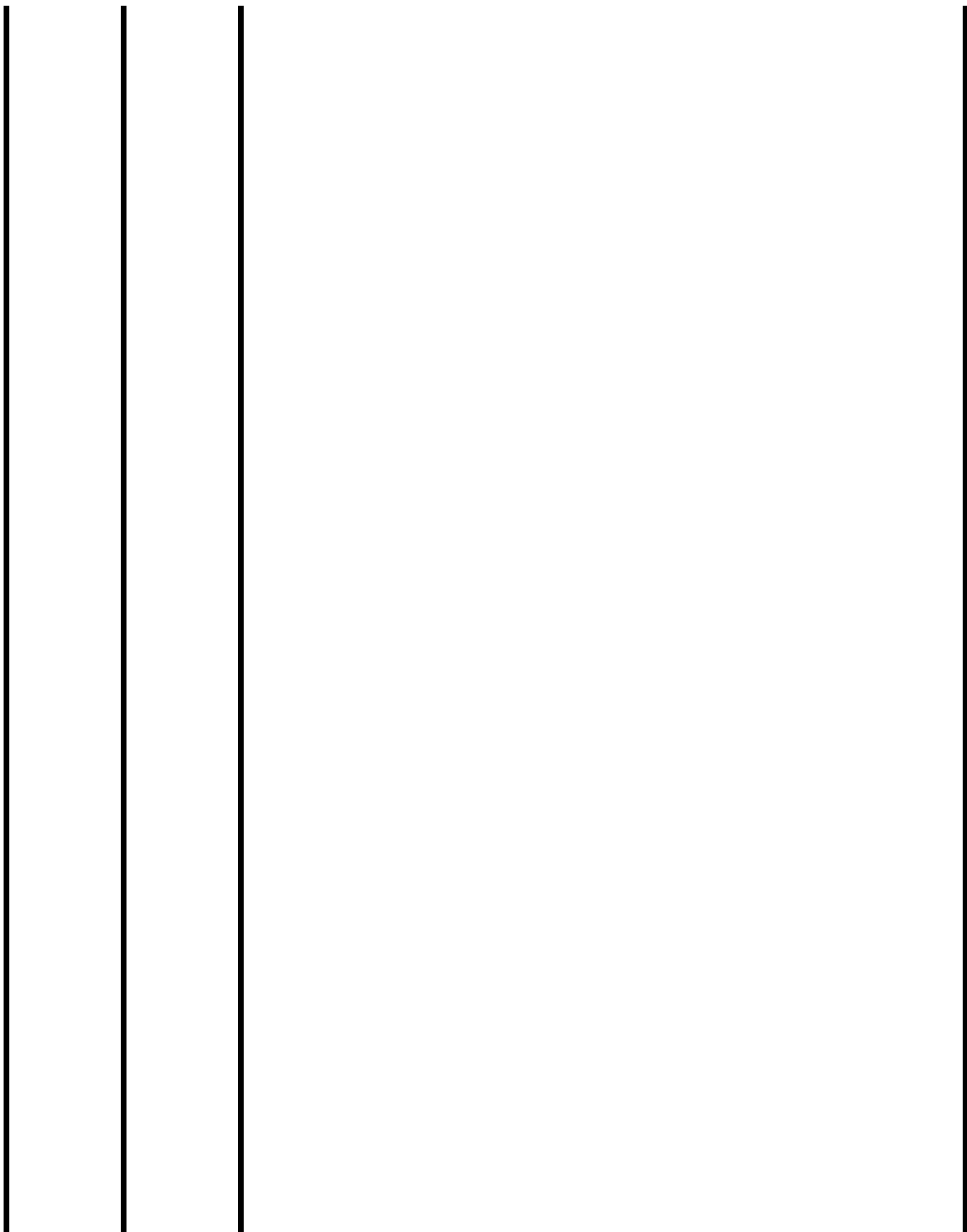
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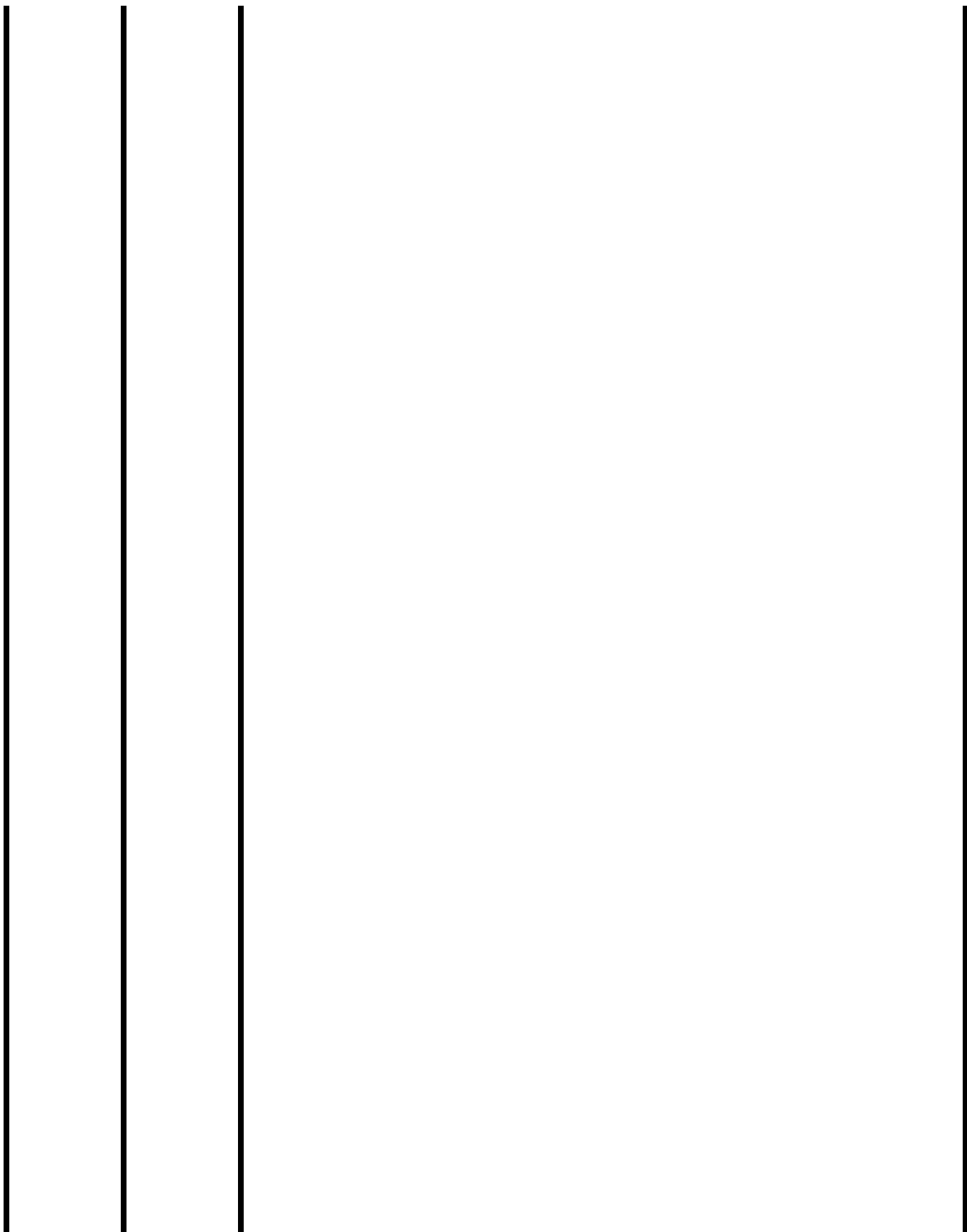
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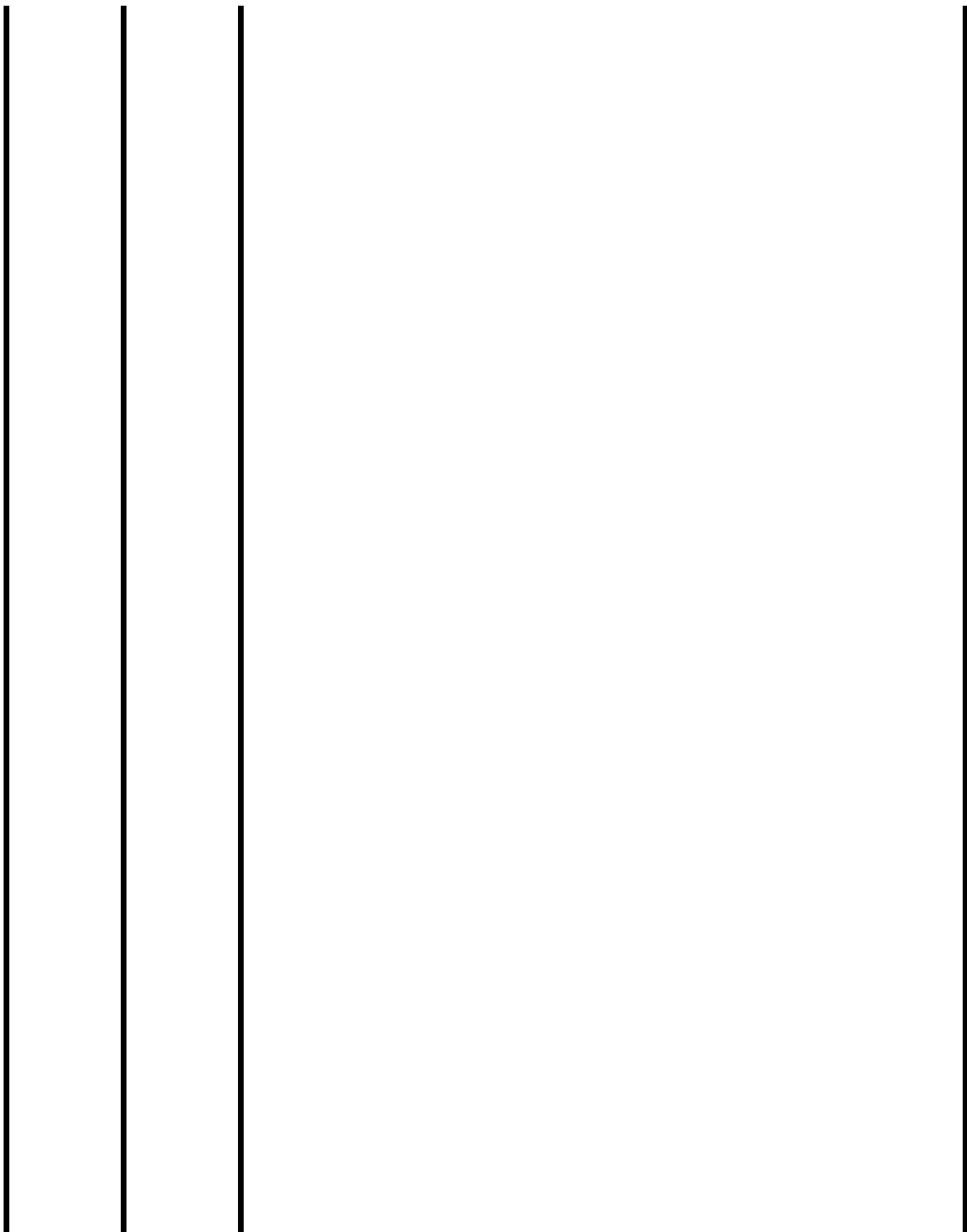
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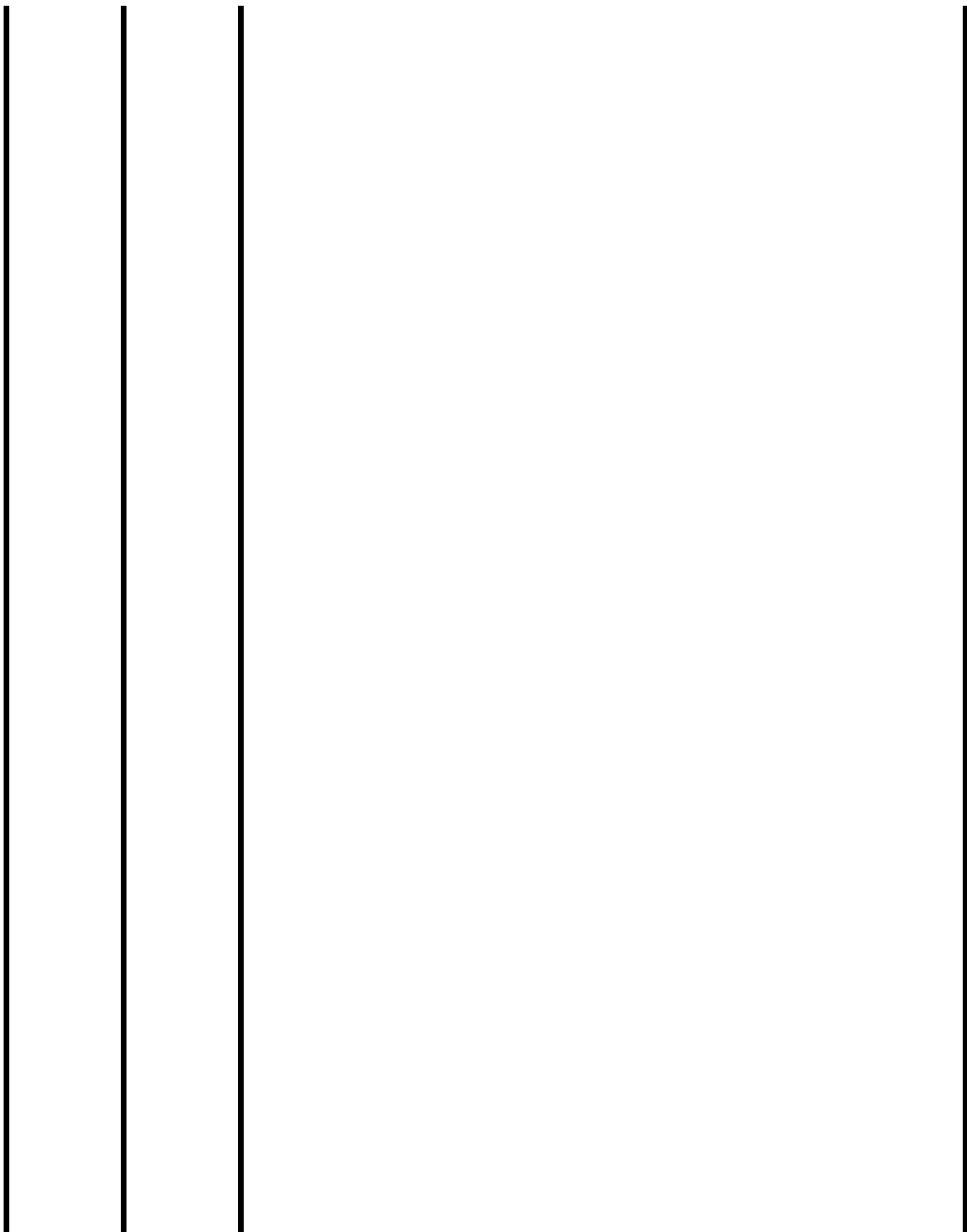
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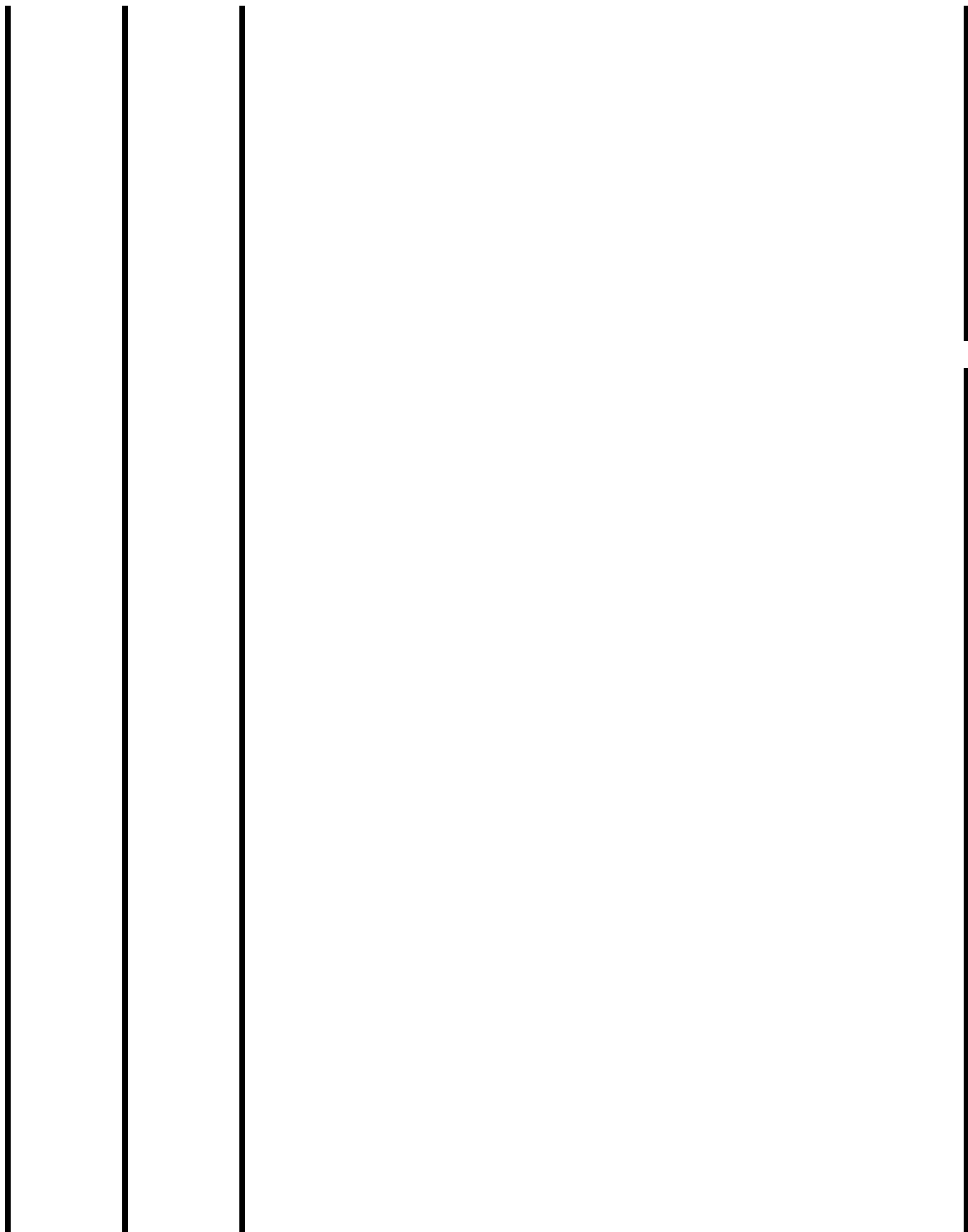
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id Gate to 1500-2500 in Bathy2000

speed to 4 kn. Circle around to position at 18:30(local), 05:30 (UT)

100

d depth
1, dB 0

arge

2000