



SEISMIC REFERENCE SERVICE
Geophysical Log

CENTURY GEOPHYSICAL CORP OF CANADA
Calgary, Alberta

PROVINCE Yukon Territory
FIELD Wildcat
WELL Columbia Gas et al Kotaneelee YT H-38
60° 07' 16" N 124° 06' 03" W
COMPANY Amoco Canada Petroleum Co. Ltd.

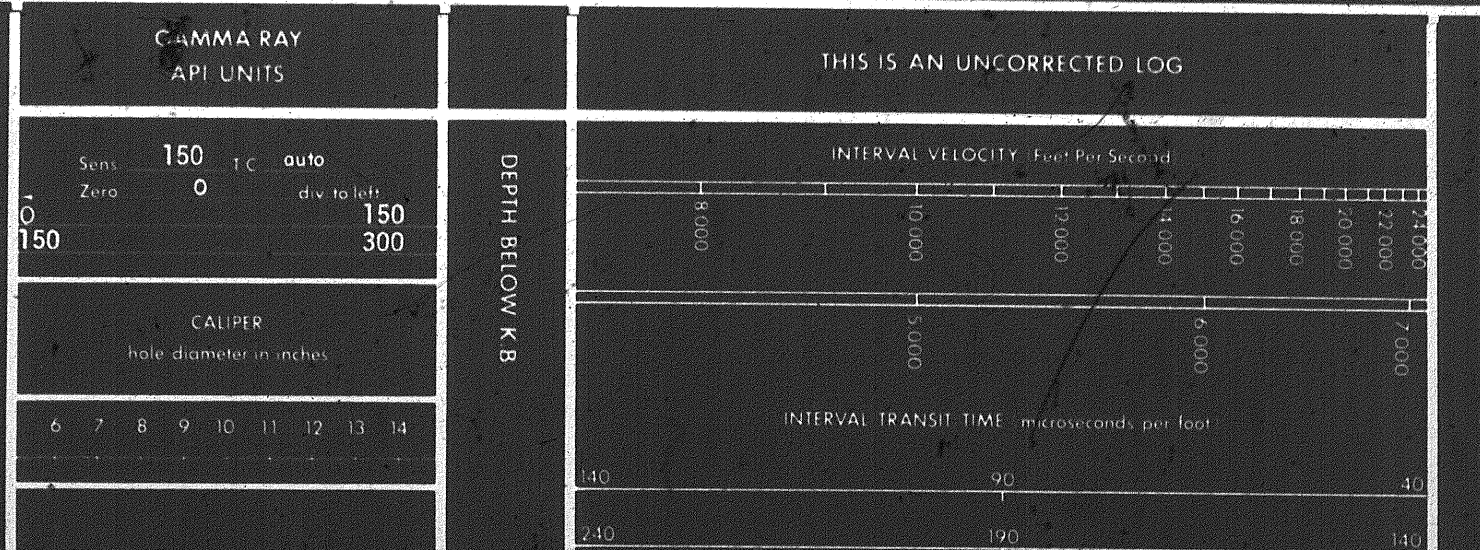
COMPANY	Amoco Canada Petroleum Company Ltd. AMOCO CANADA PETROLEUM COMPANY LTD. GEOPHYSICAL DEPARTMENT
WELL	Columbia Gas et al Kotaneelee YT H-38
FIELD	Wildcat
PROVINCE	YUKON TERRITORY
LOCATION	60° 07' 16" N 124° 06' 03" W
Permanent Datum Log Measured From	G.L. K.B.
Elev. KB	2225
Elev. GI	2250
Other Surveys	CBF

Sonic Run No	SONIC DATA			SEISMIC DATA
	One	Two	Three	
Date	1977 May 23	Sept 8	Oct 15	By Century Geophysical Corp of Canada
First Reading	3018	10758	12778	Seismic Datum
Last Reading	772	3020	10840	Difference Between Seismic and Sonic Datum
Feet Measured	2246	7739	1938	Amplitude 12 CGC Model 510
Depth Reached	3021	10806	12782	WELL GEOPHONE
Bottom Driller	3021	10850	12789	Model
Cg. Logar	772	3020	10840	Type
Cg. Driller	772	3021	10850	Filter

Bl. Size	12 1/4	12 1/4	8 1/2
Logging Co.	Schlumberger		
Op. Rg. Time	3.5 hrs	4 hrs	15 hrs
Truck No.	OSU-C-339		
Recorded By	Sundquist, Nickerson		
Witness	Dortch, Lane		

REMARKS For corrected sonic log readings from: 1000' to 2000' add 5.2 μ sec/ft
2000' to 4908' add 2.0 μ sec/ft
4908' to 5540' subtract 13.0 μ sec/ft
5540' to 10750' add 1.1 μ sec/ft
10750' to 12775' no beta shift was applied.

The arm on the wall lock geophone would not operate properly on the deep part of the well. The arm would open and prevent the geophone from descending beyond 10206 ft. Numerous attempts were tried to keep arm closed, but failed. The engineer halted the shoot when told charges larger than 10 lbs would have to be used in the sump. The sump had a weak side and would not stand any larger charges.



larger than 10 lbs would have to be used in the sump. The sump had a weak side and would not stand any larger charges.

GAMMA RAY
API UNITS

Sens 150 TC auto
Zero 0 div to left
150
300

CALIPER
hole diameter in inches

6 7 8 9 10 11 12 13 14

150

THIS IS AN UNCORRECTED LOG

DEPTH BELOW K.B.

INTERVAL VELOCITY - Feet Per Second

8,000 10,000 12,000 14,000 16,000 18,000 20,000 22,000 24,000

5,000 6,000 7,000

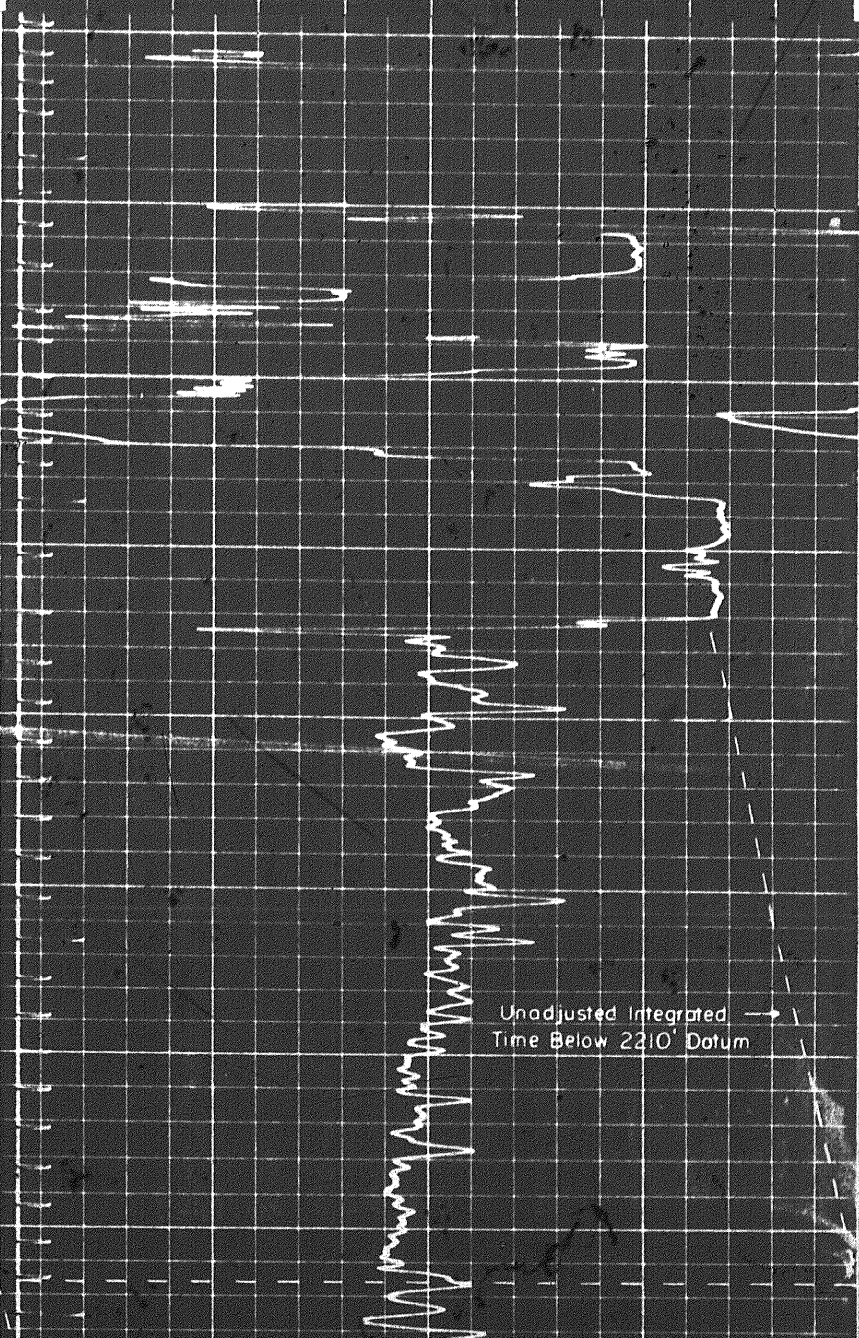
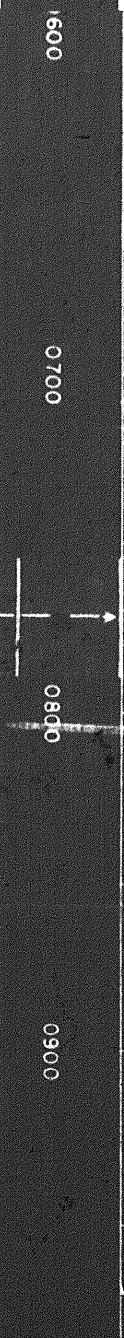
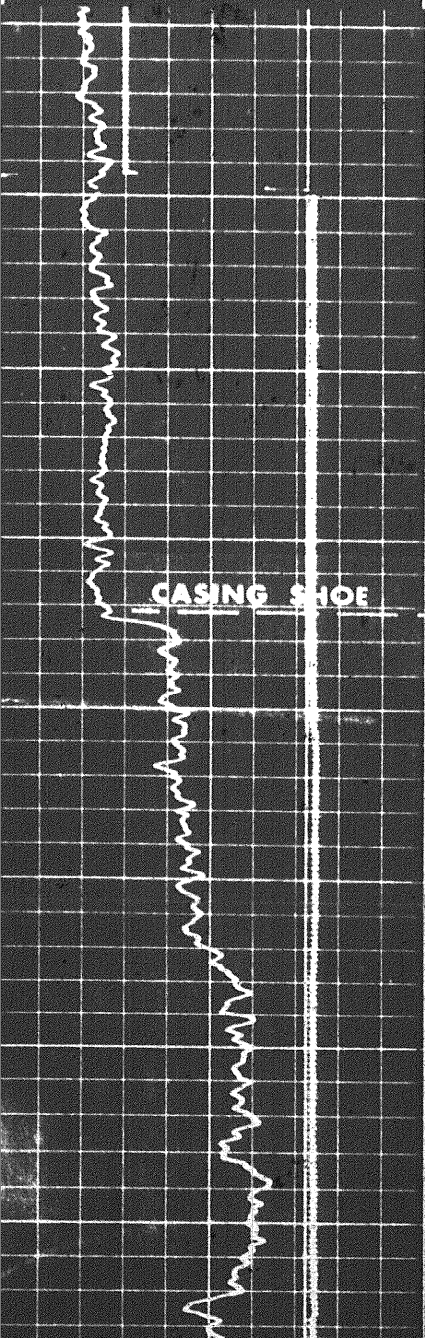
INTERVAL TRANSIT TIME - microseconds per foot

140 90 40

240 190 140

VELOCITY (Feet Per Second) 1,000,000
INTERVAL TRANSIT TIME
RELATIVE TRAVEL TIME

0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90



Unadjusted Integrated Time Below 2210' Datum

larger than 10 lbs would have to be used in the sump. The sump had a weak side and would not stand any larger charges.

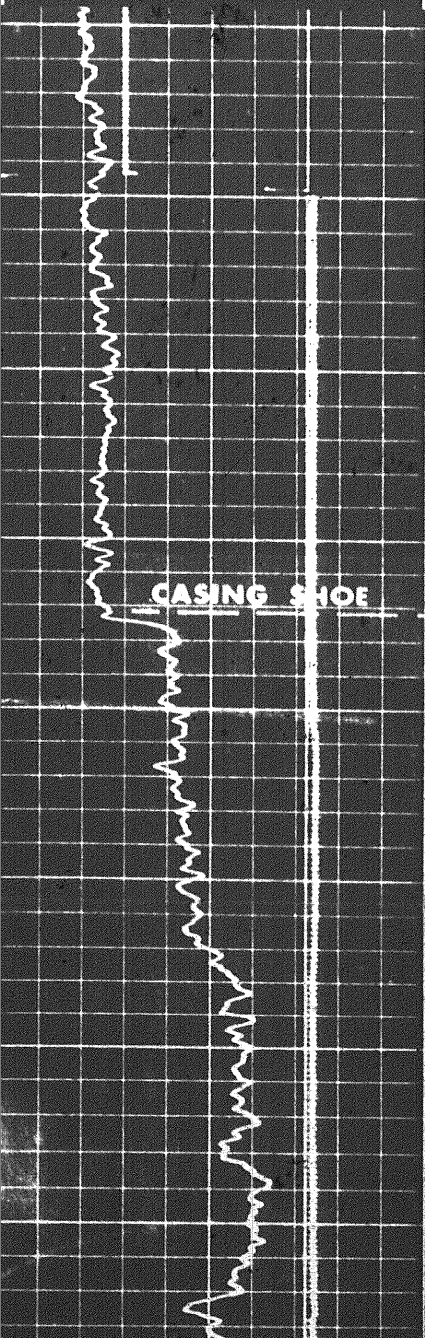
GAMMA RAY
API UNITS

Sens **150** TC **auto**
Zero **0** div to left
150 **300**

CALIPER
hole diameter in inches

6 7 8 9 10 11 12 13 14

1600
0700
0800
0900



DEPTH BELOW K.B.

1600
0700
0800
0900

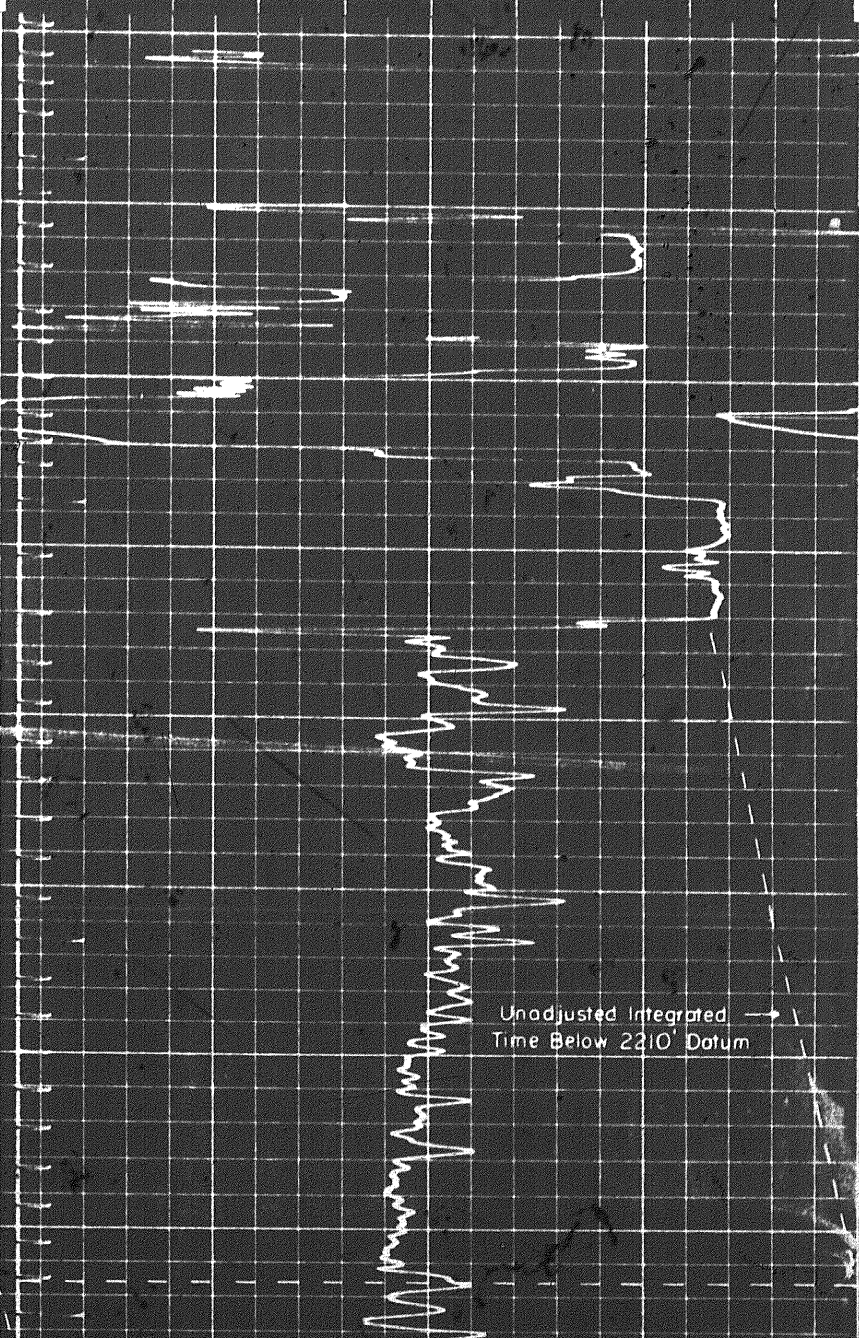
THIS IS AN UNCORRECTED LOG

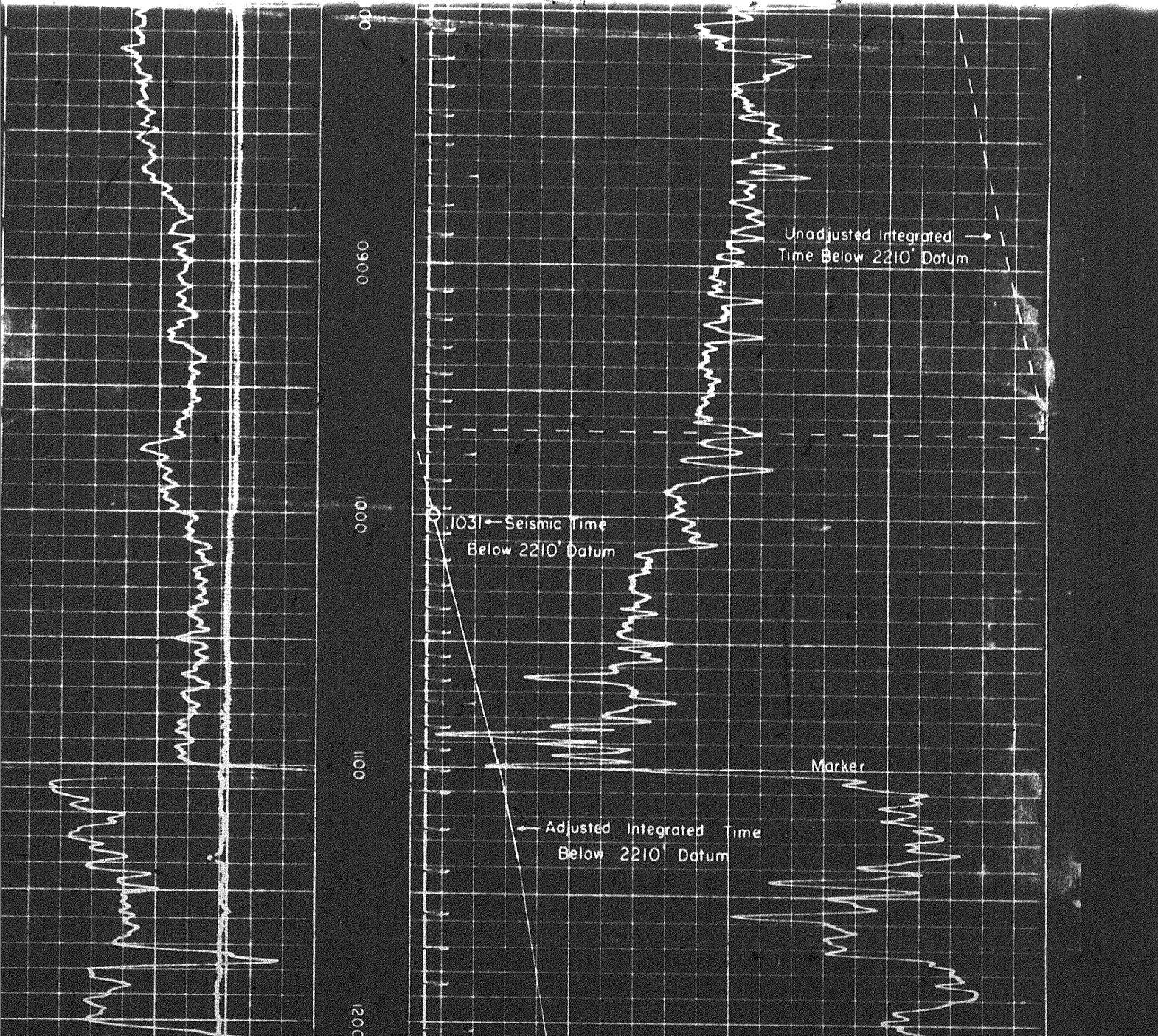
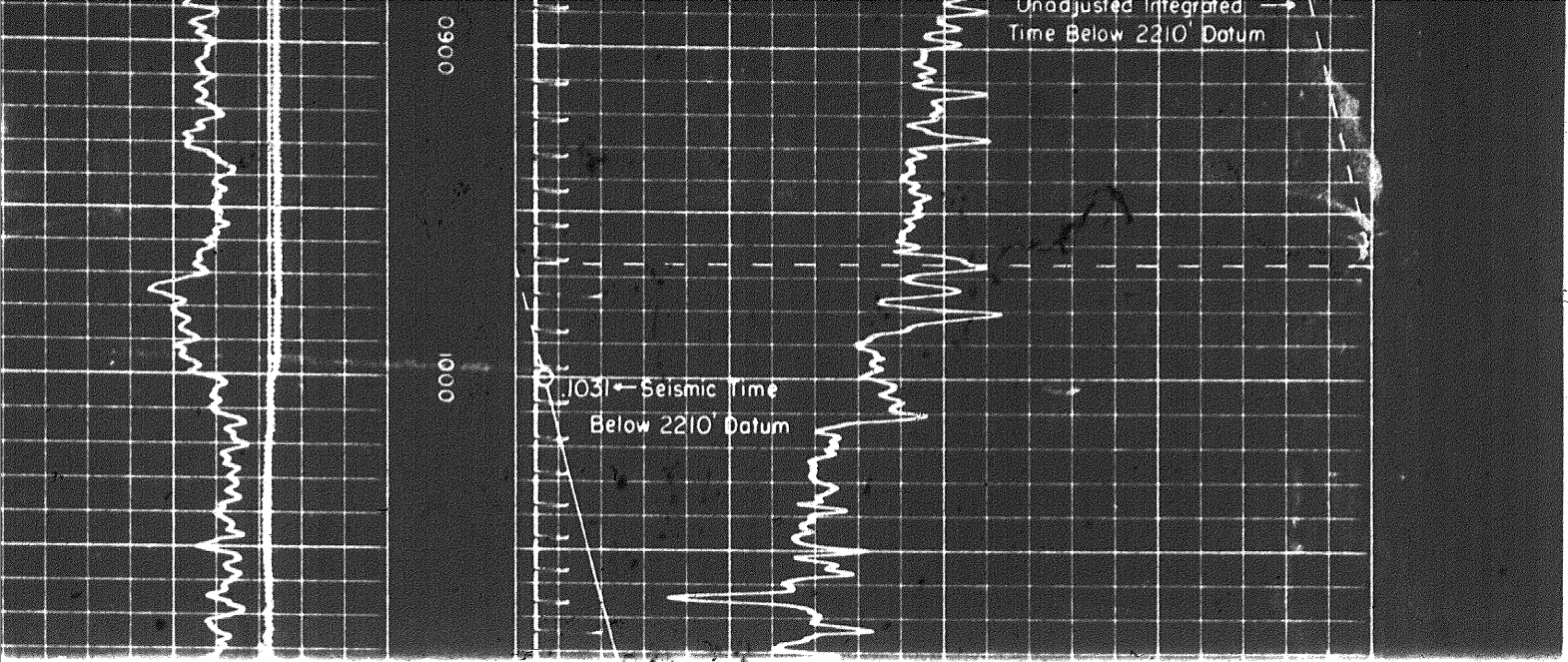
INTERVAL VELOCITY Feet Per Second
8,000 10,000 12,000 14,000 16,000 18,000 20,000 22,000 24,000

5,000 6,000 7,000

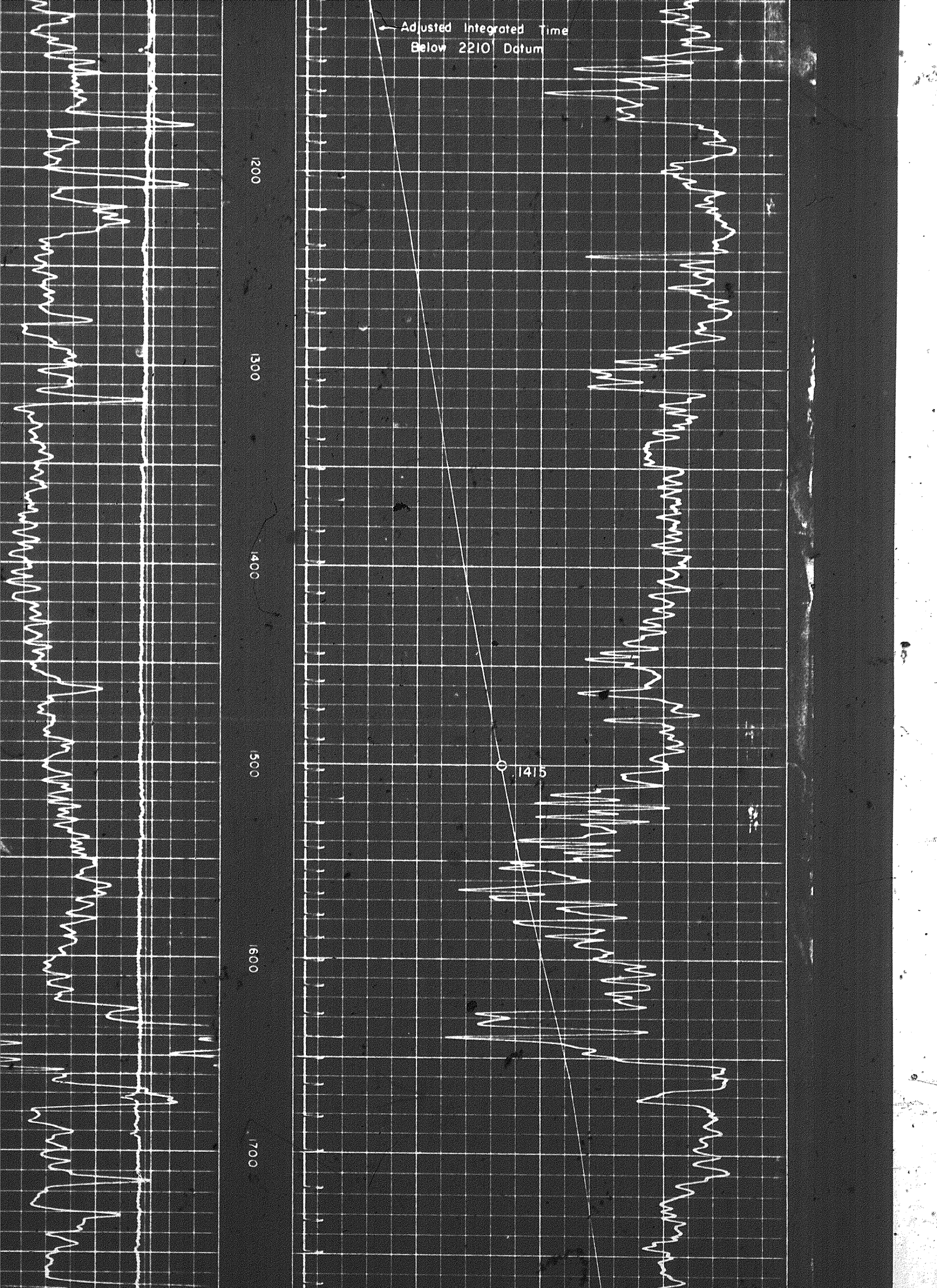
INTERVAL TRANSIT TIME microseconds per foot
140 90 40
240 190 140

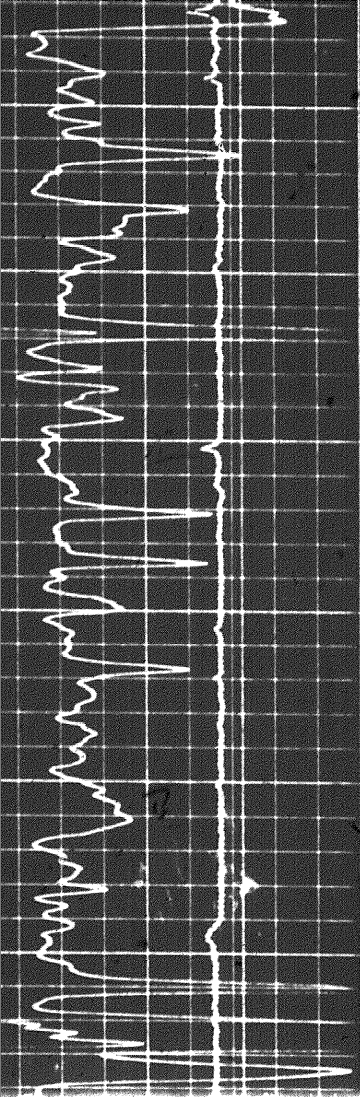
VELOCITY (Feet Per Second) 1,000,000
INTERVAL TRANSIT TIME
RELATIVE TRAVEL TIME
0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90





Adjusted Integrated Time
Below 2210 Datum

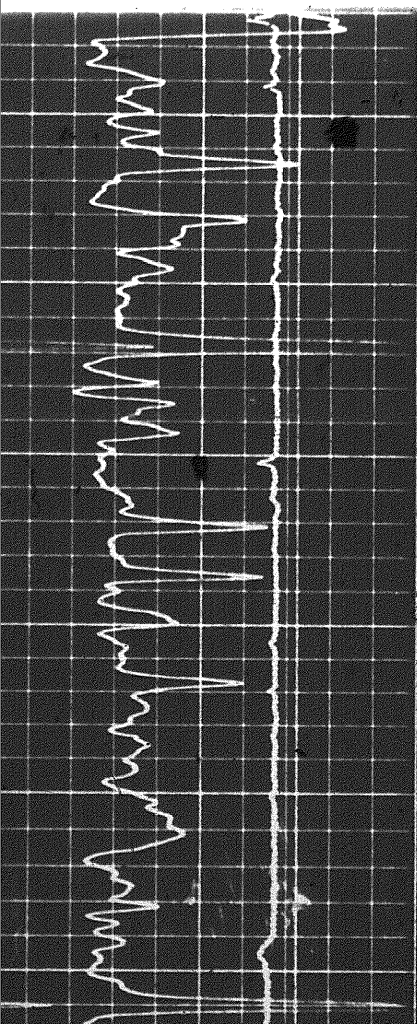
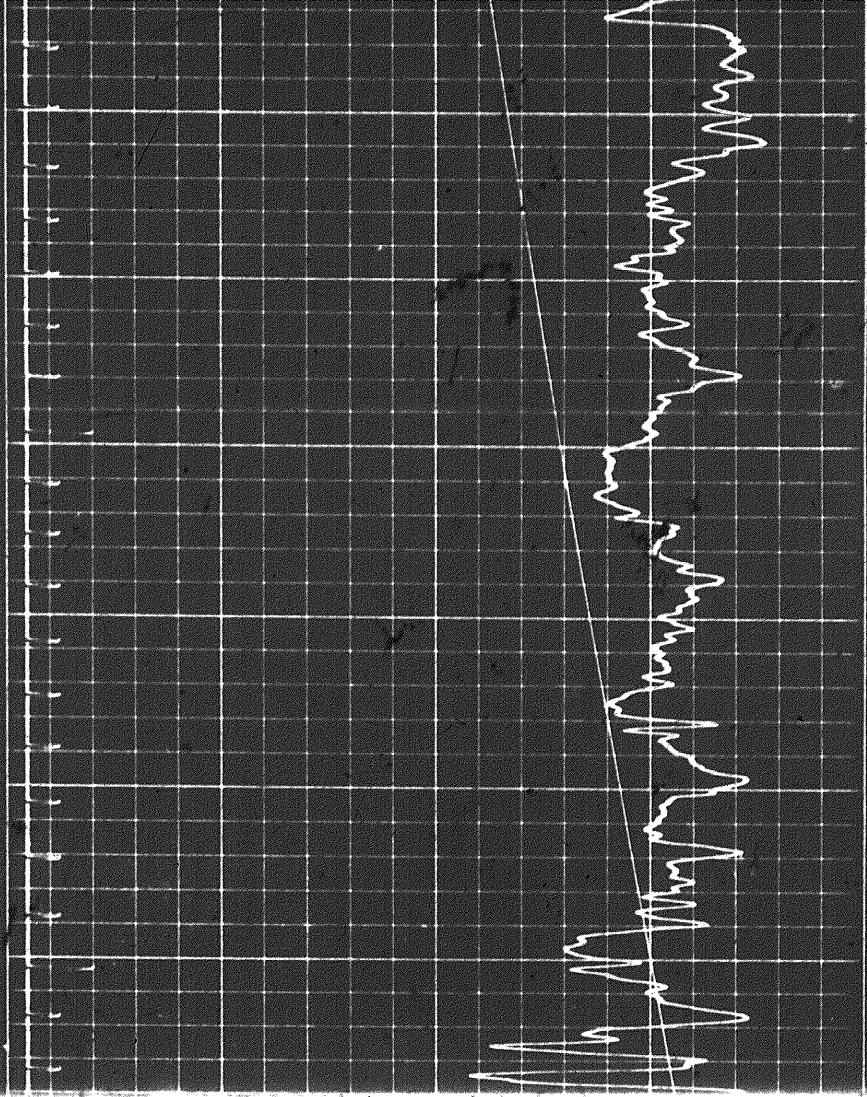




1700

800

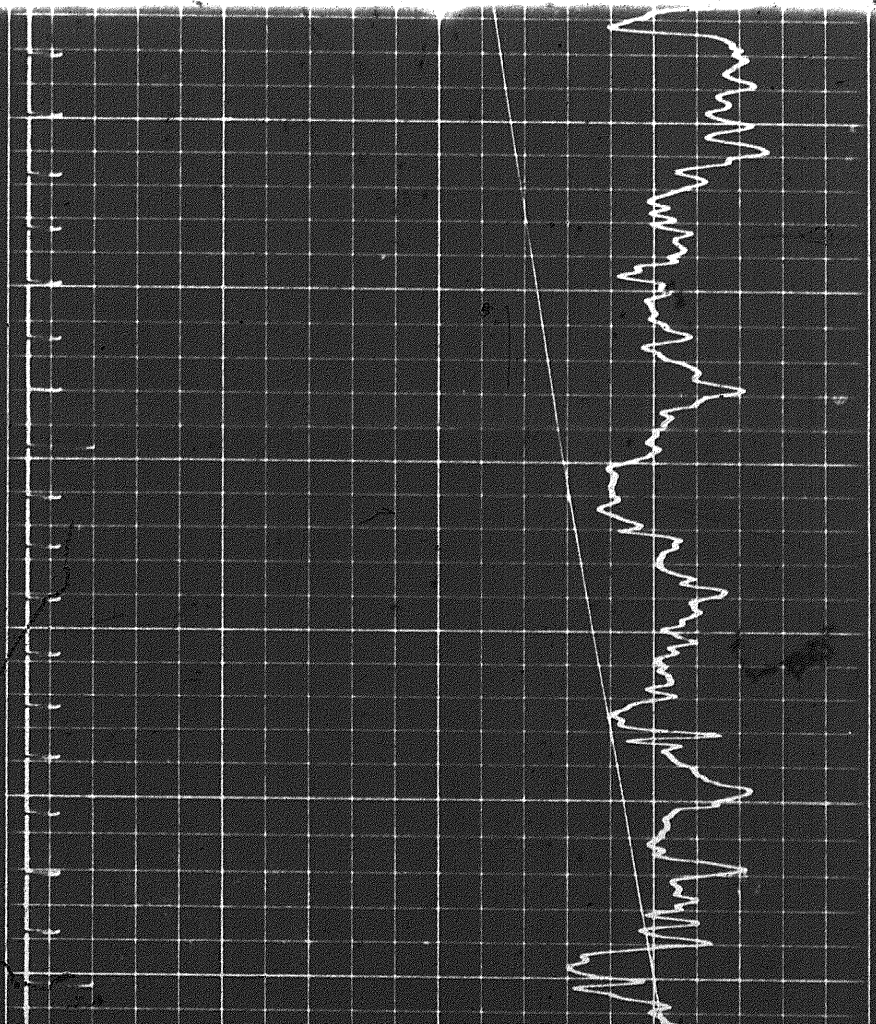
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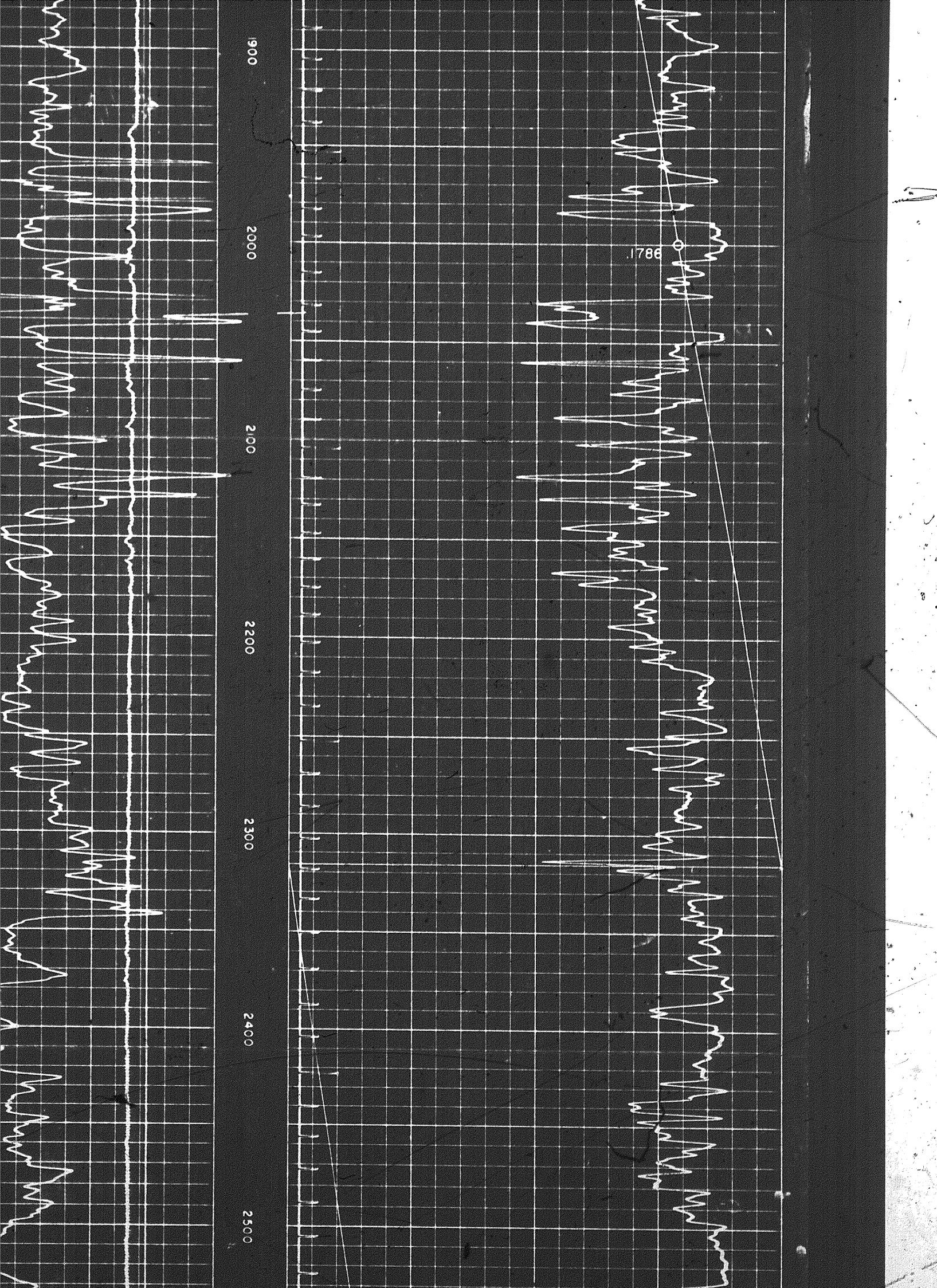


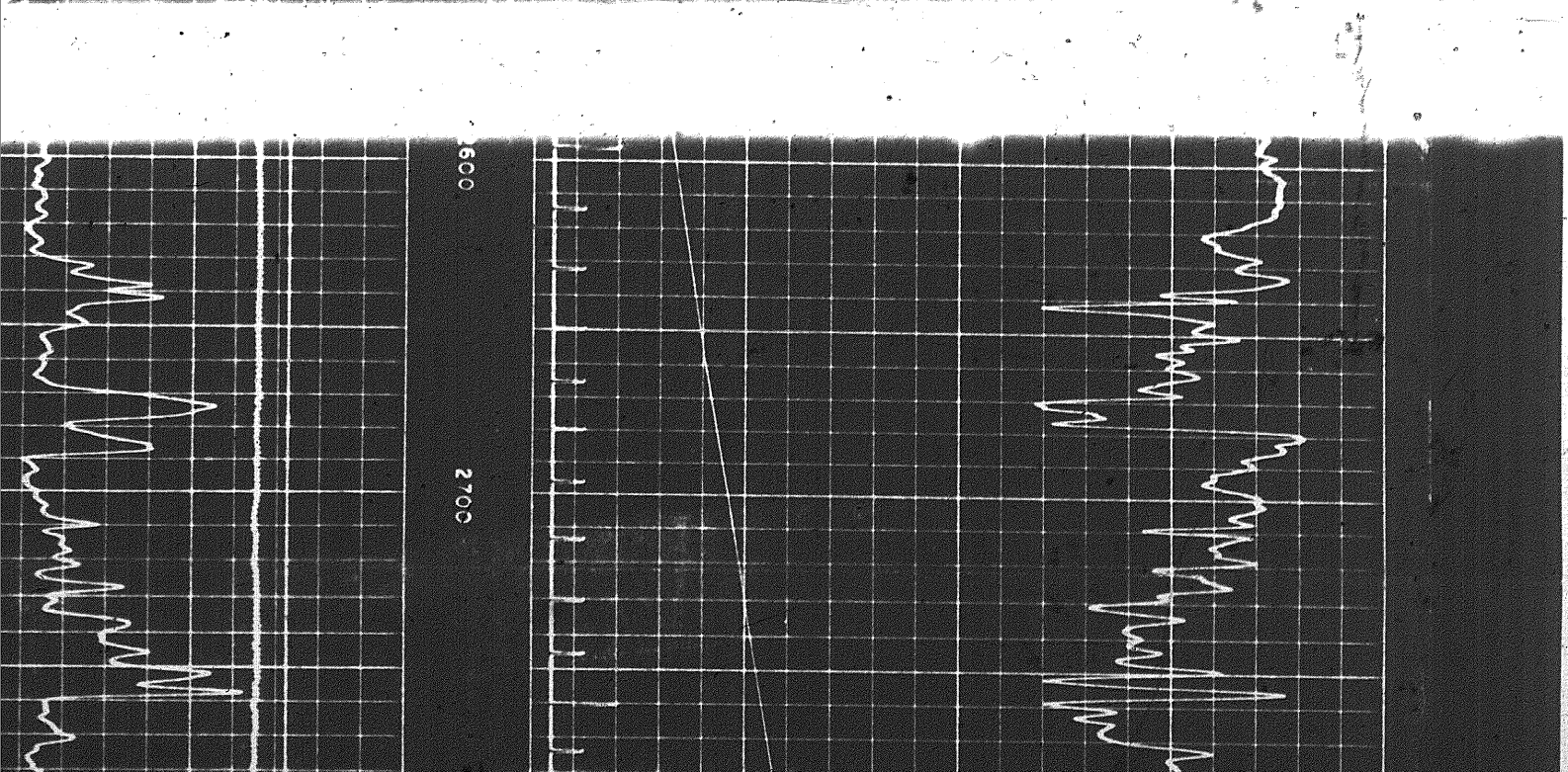
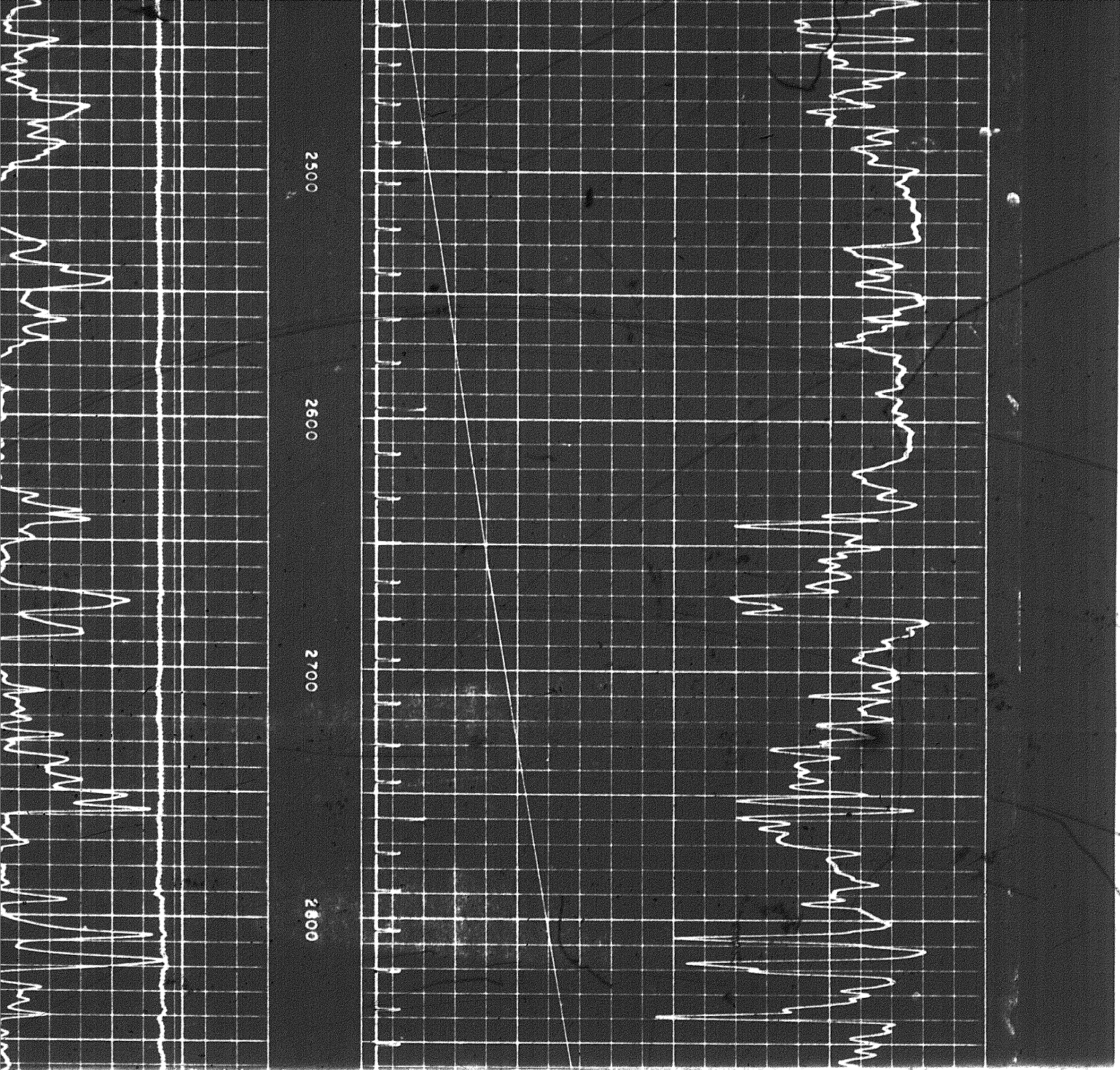
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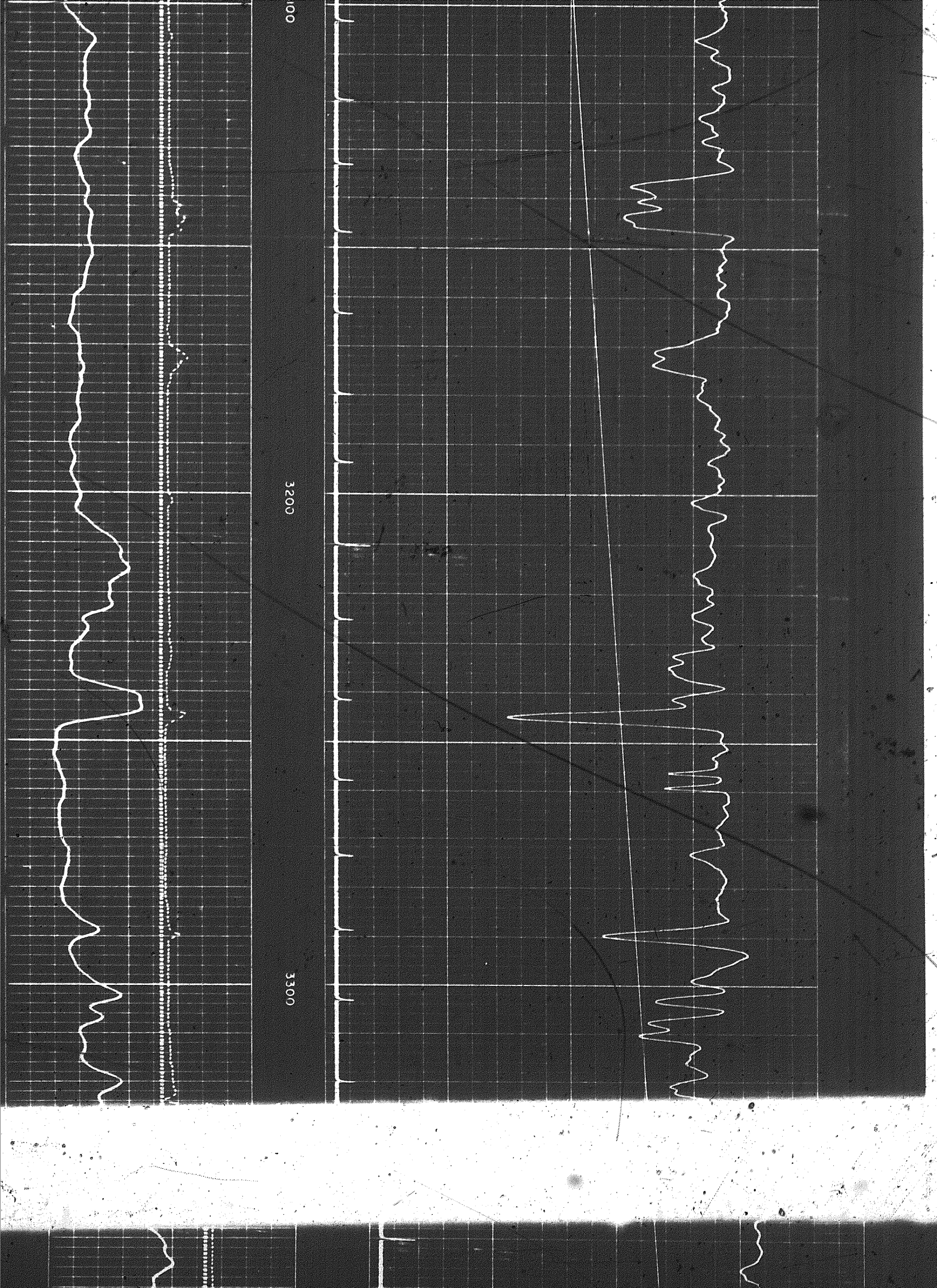
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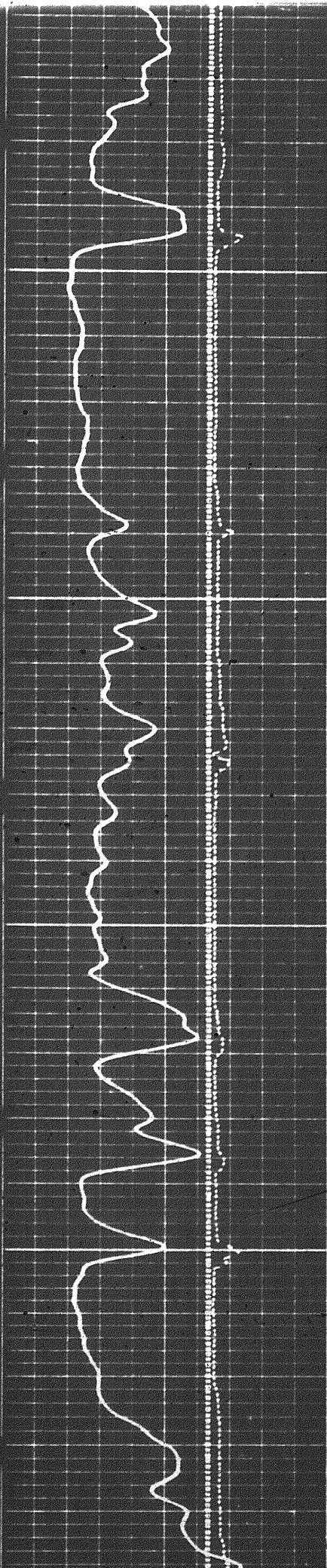
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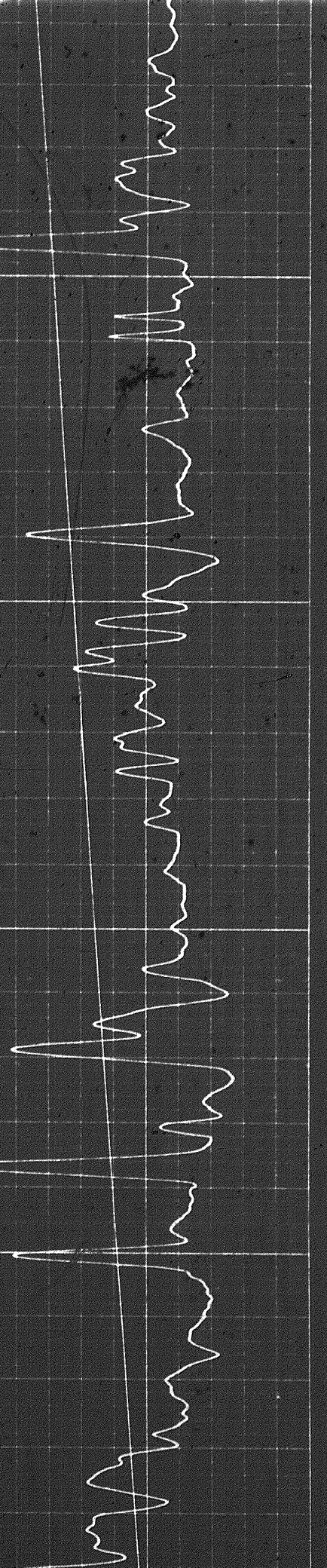
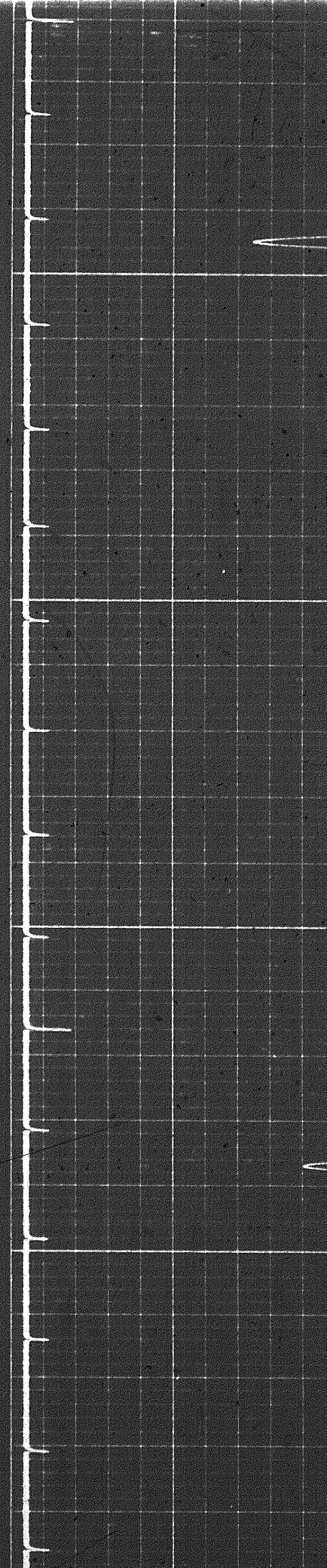


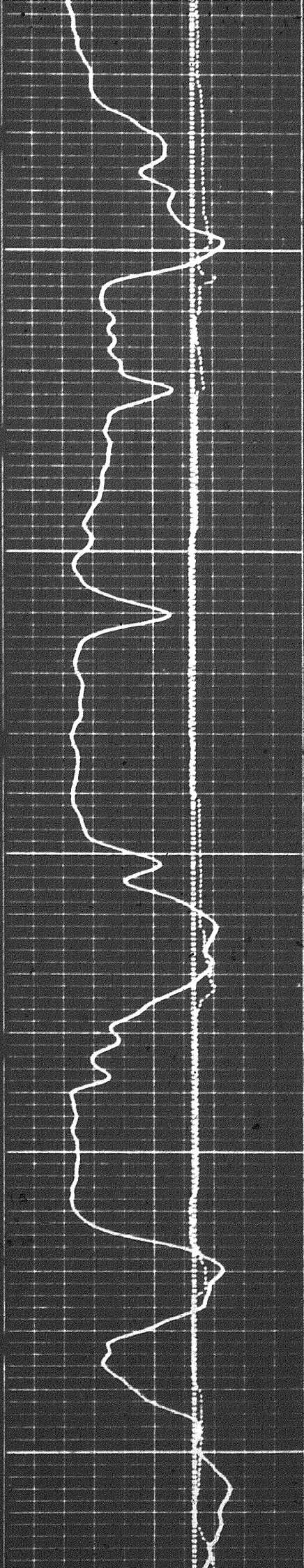




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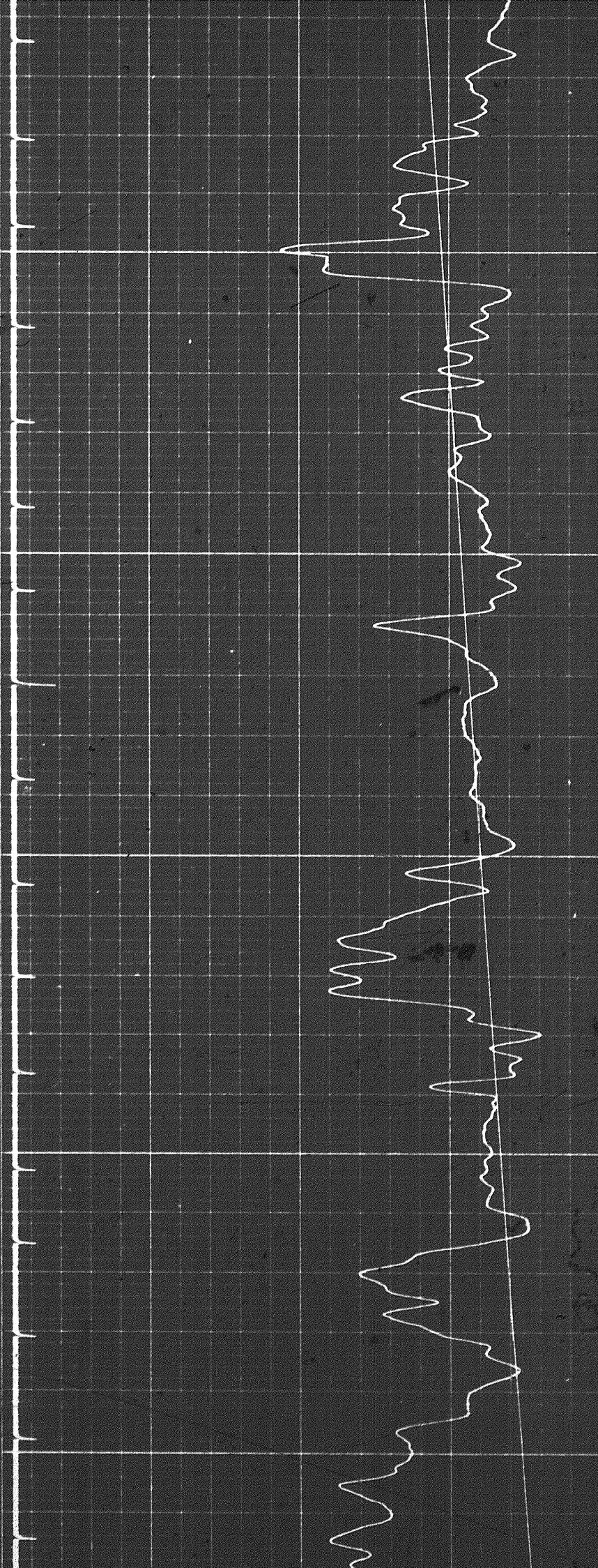
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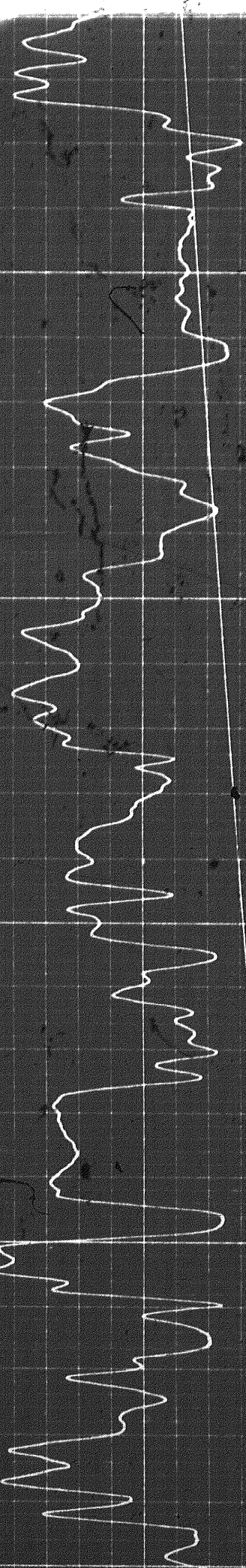




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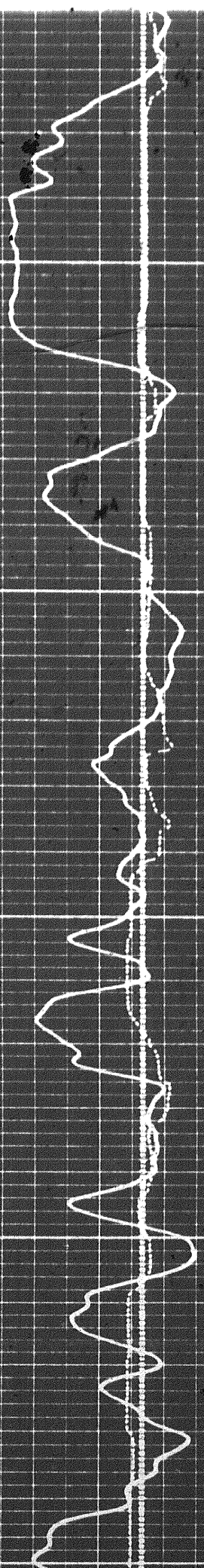




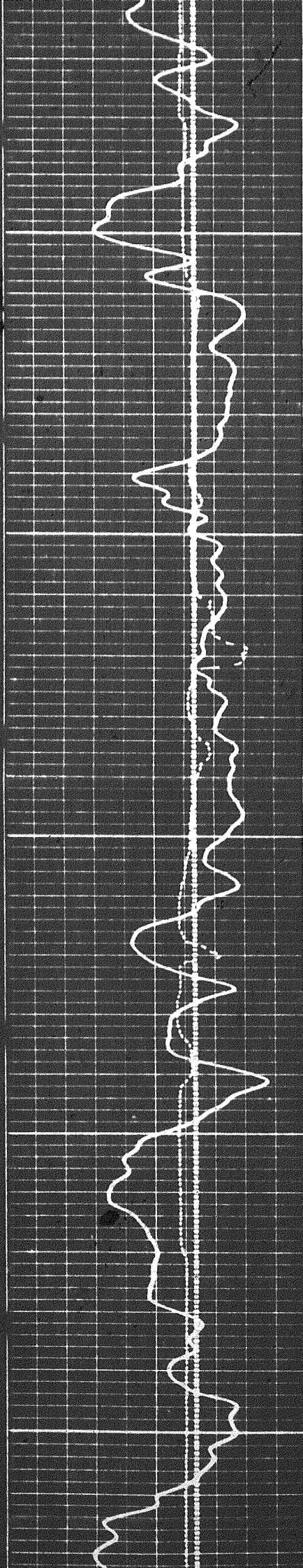
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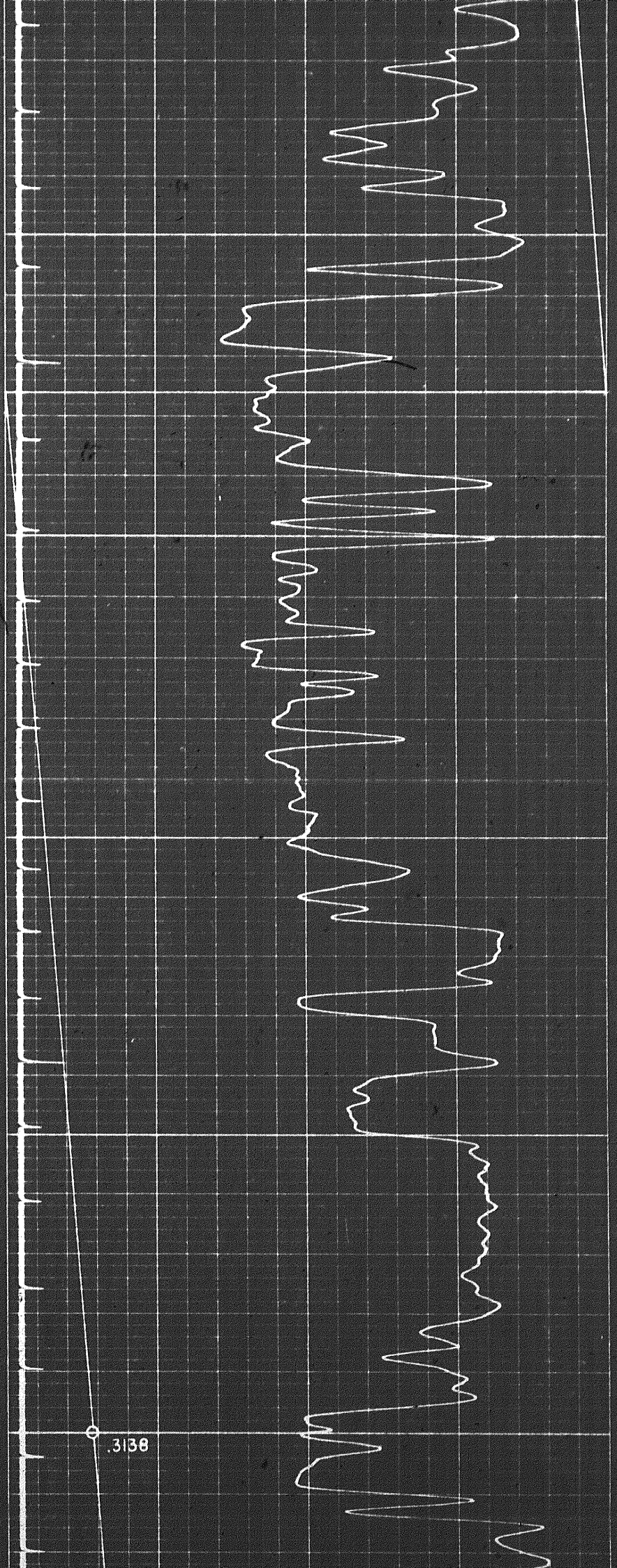
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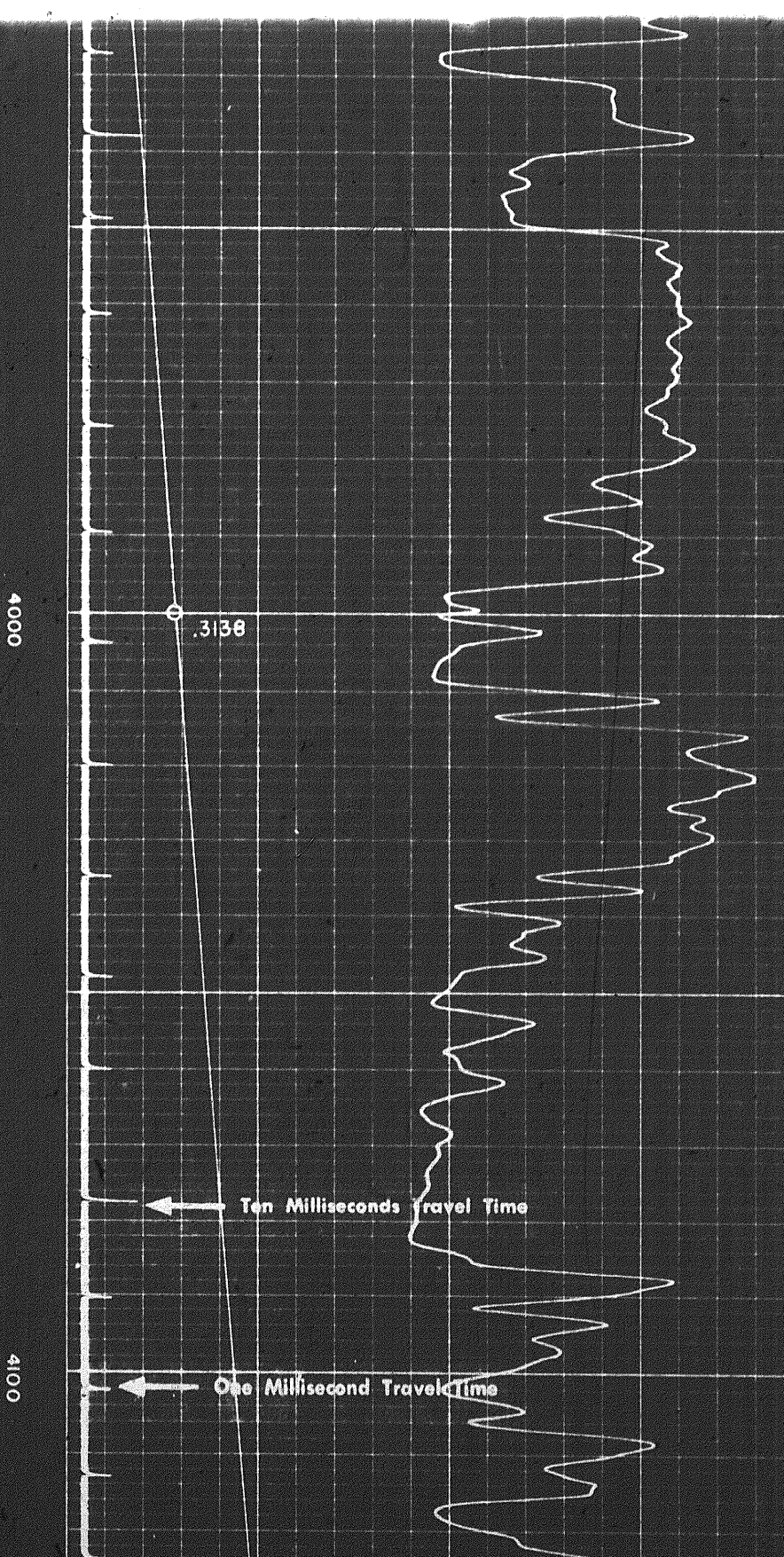
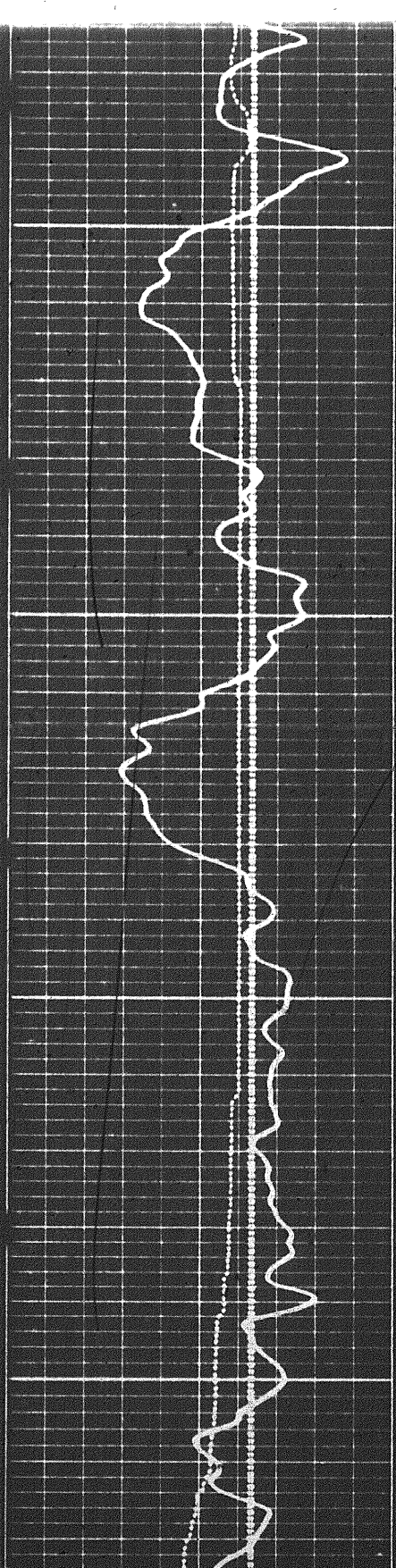
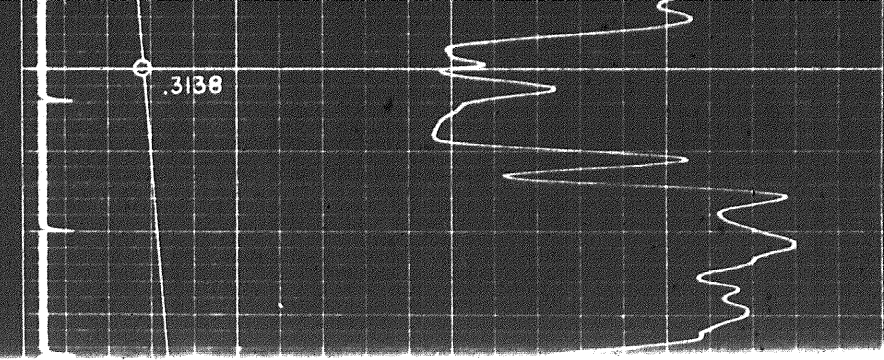
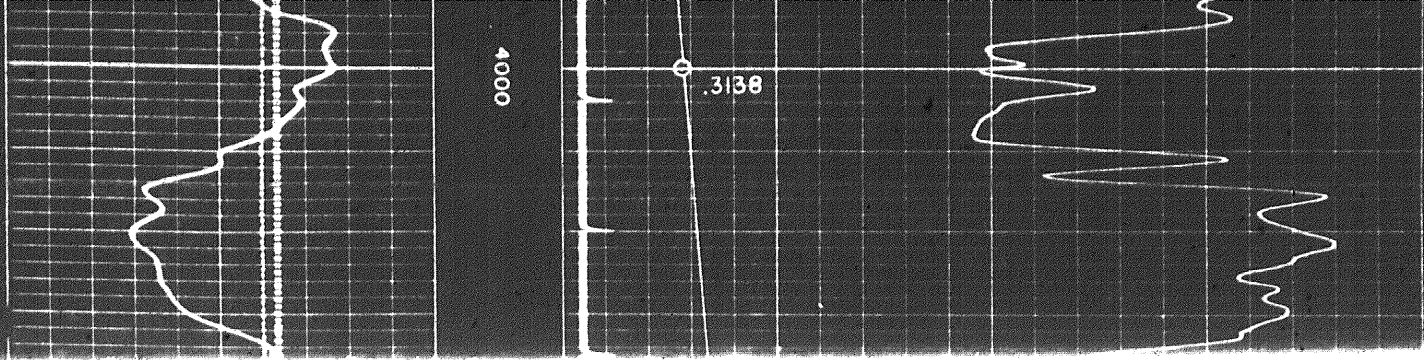
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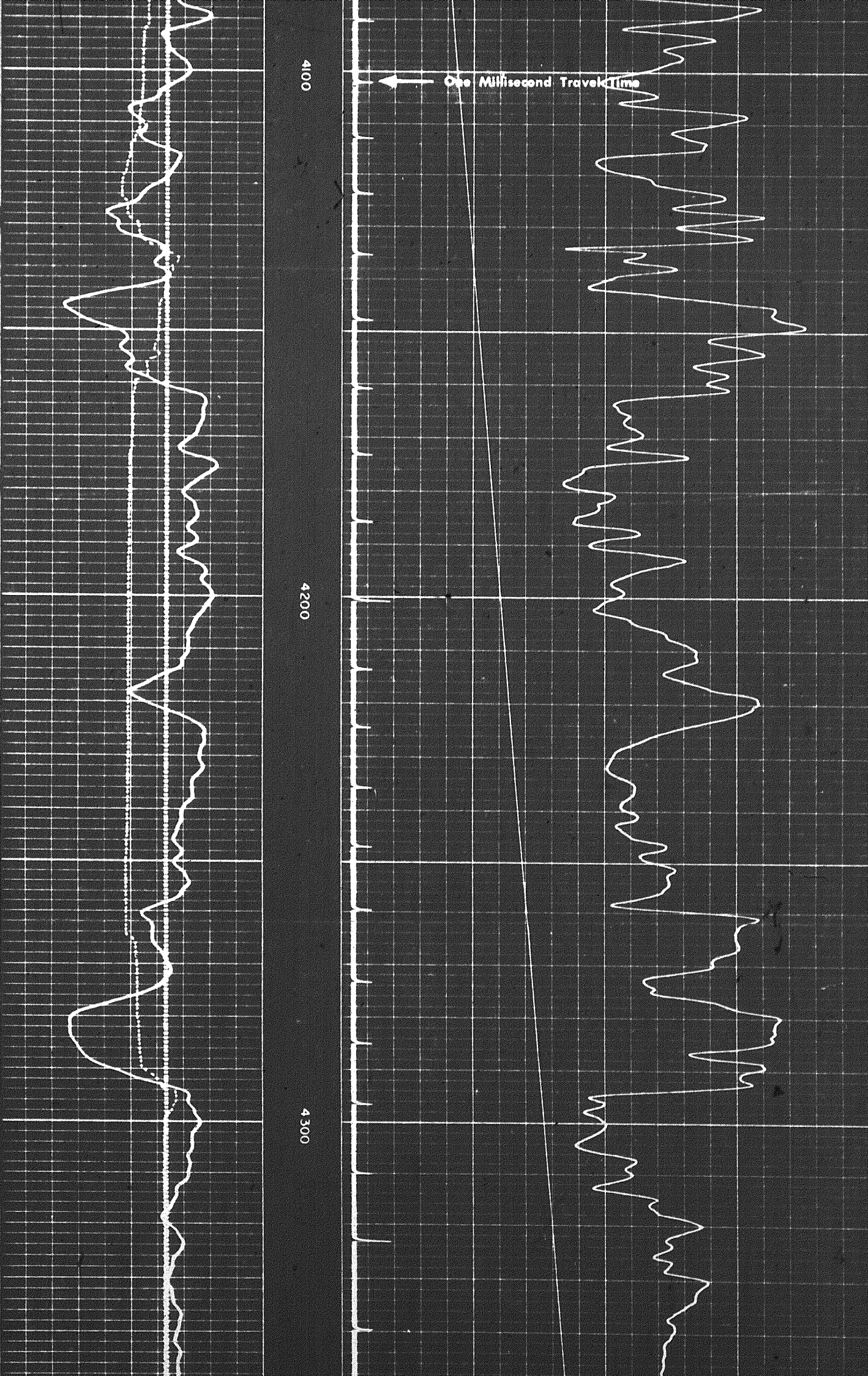
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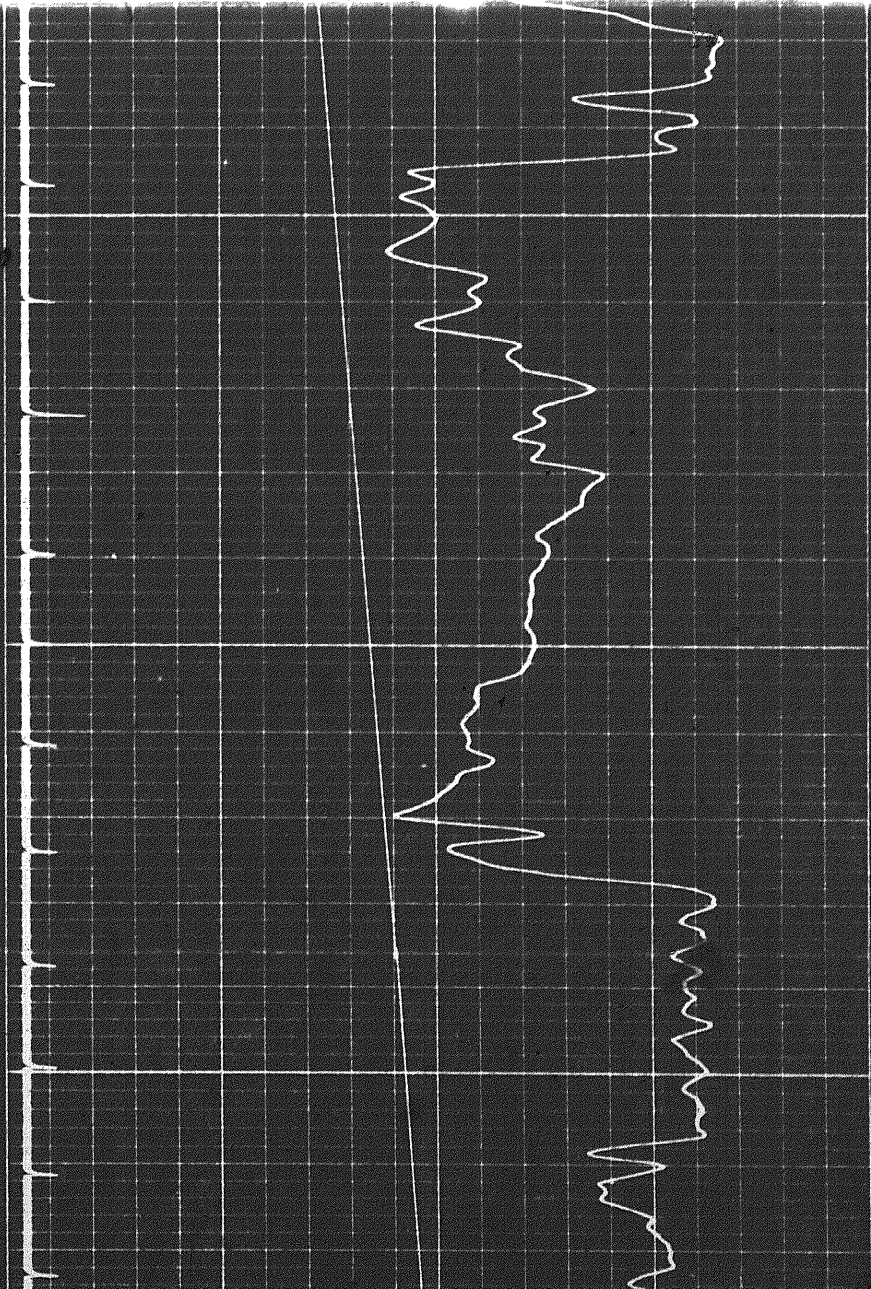
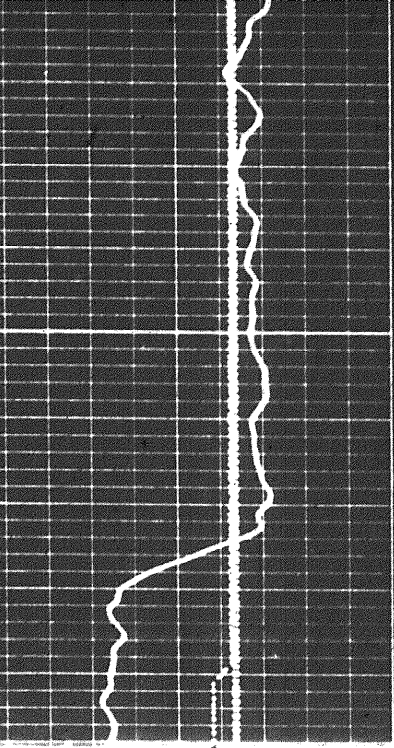
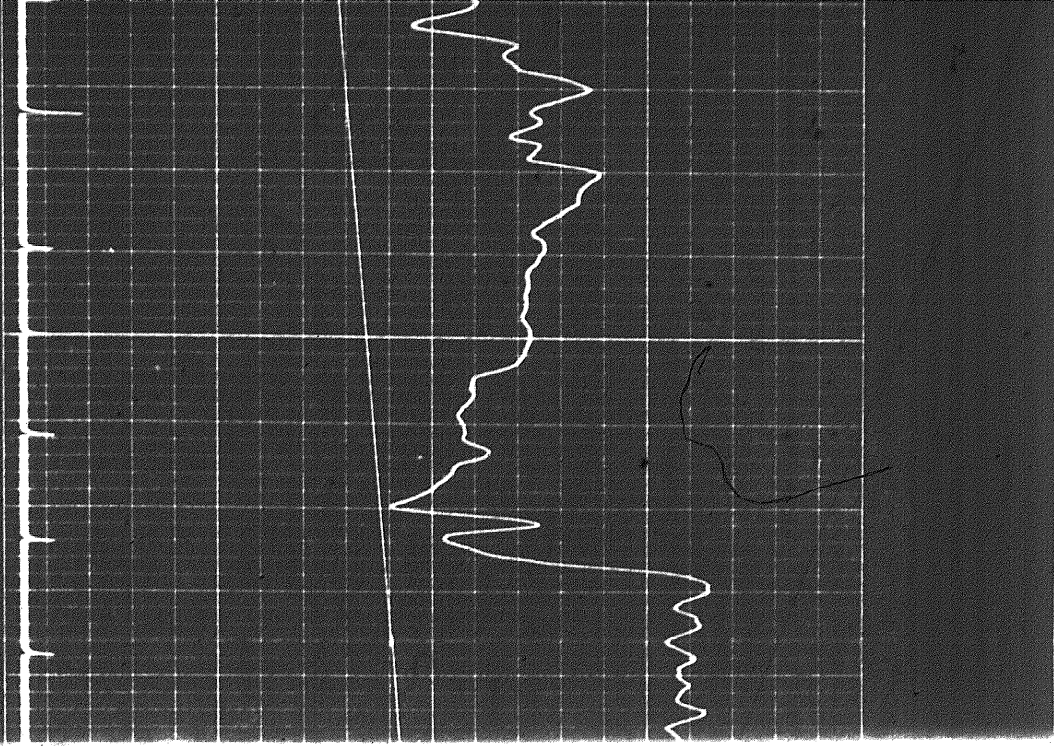


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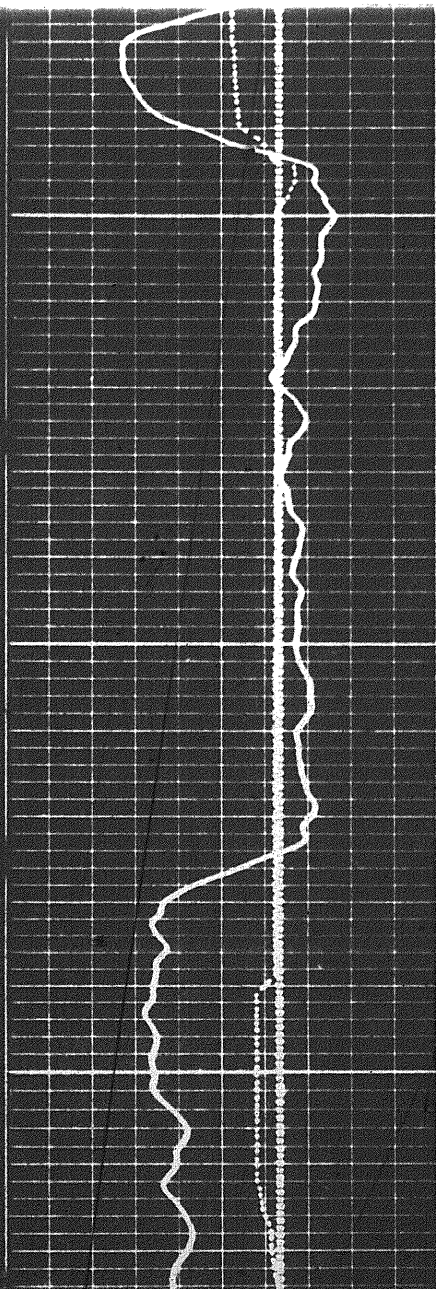
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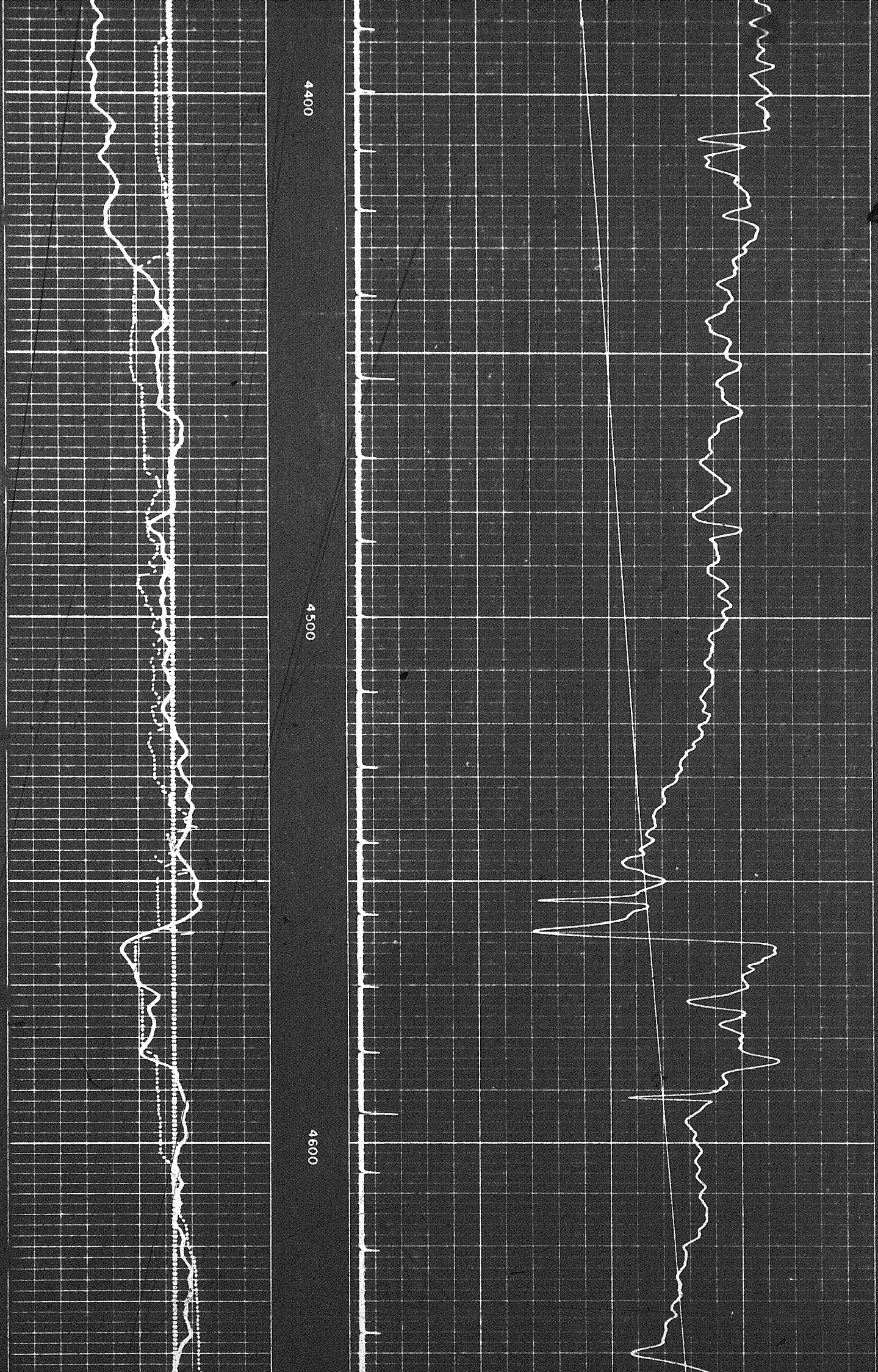
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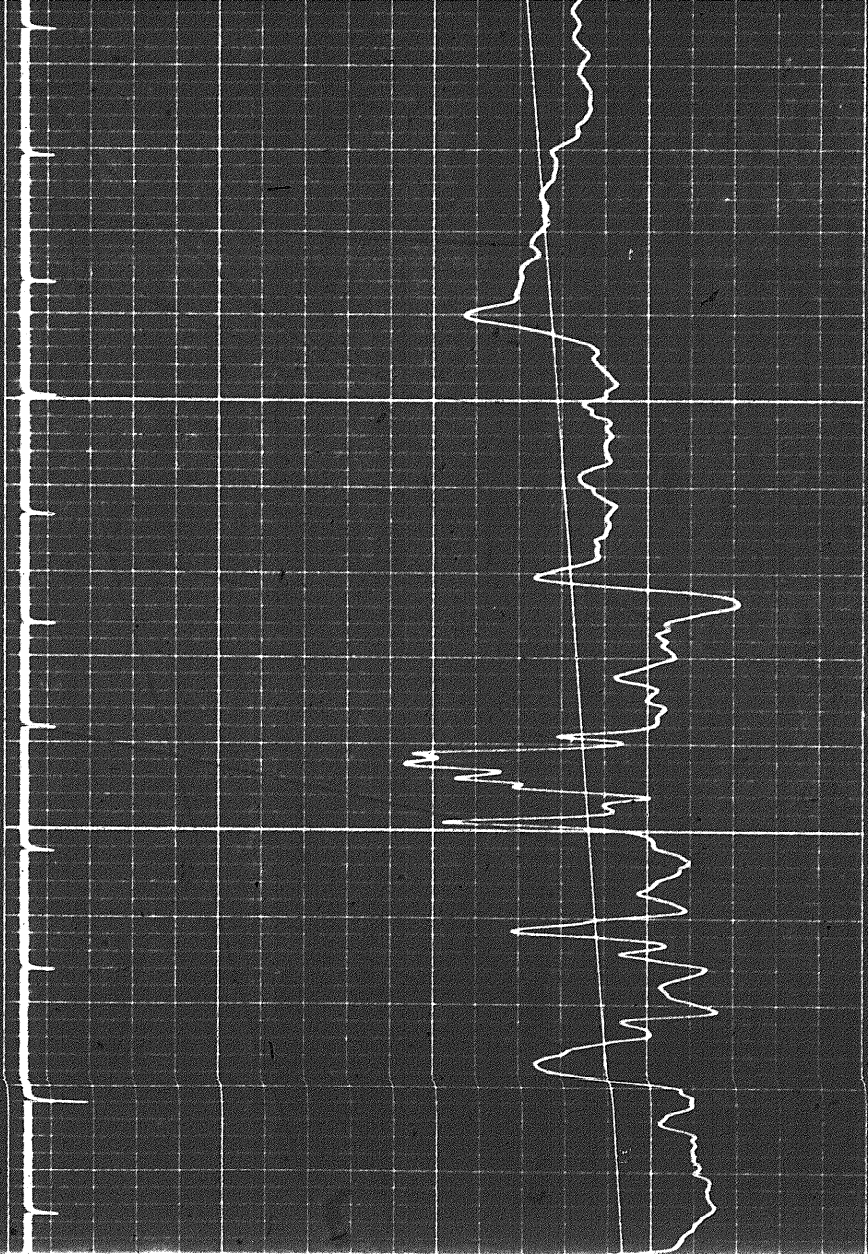


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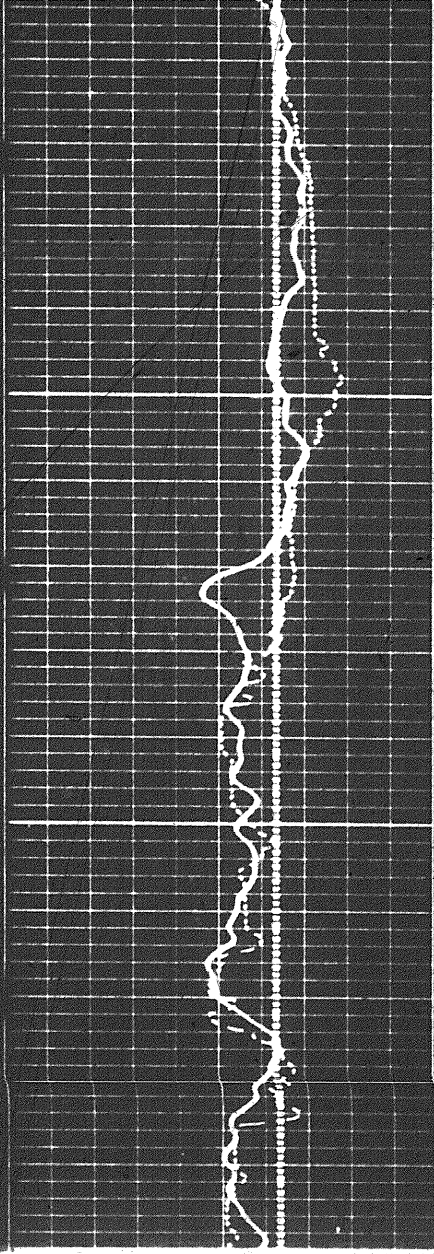
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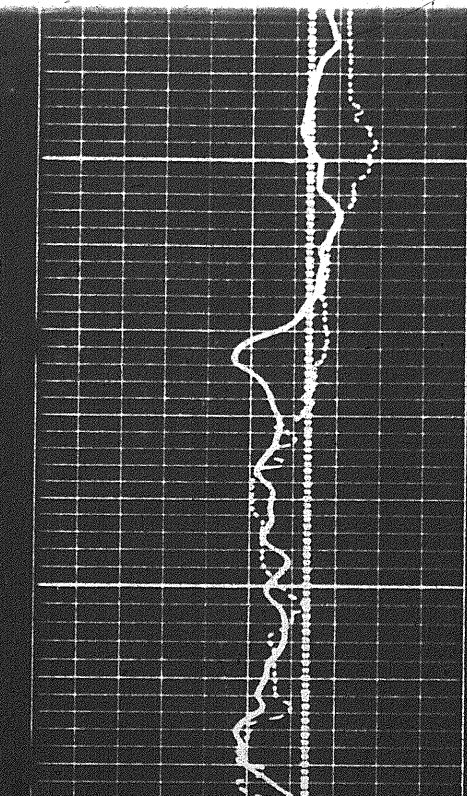
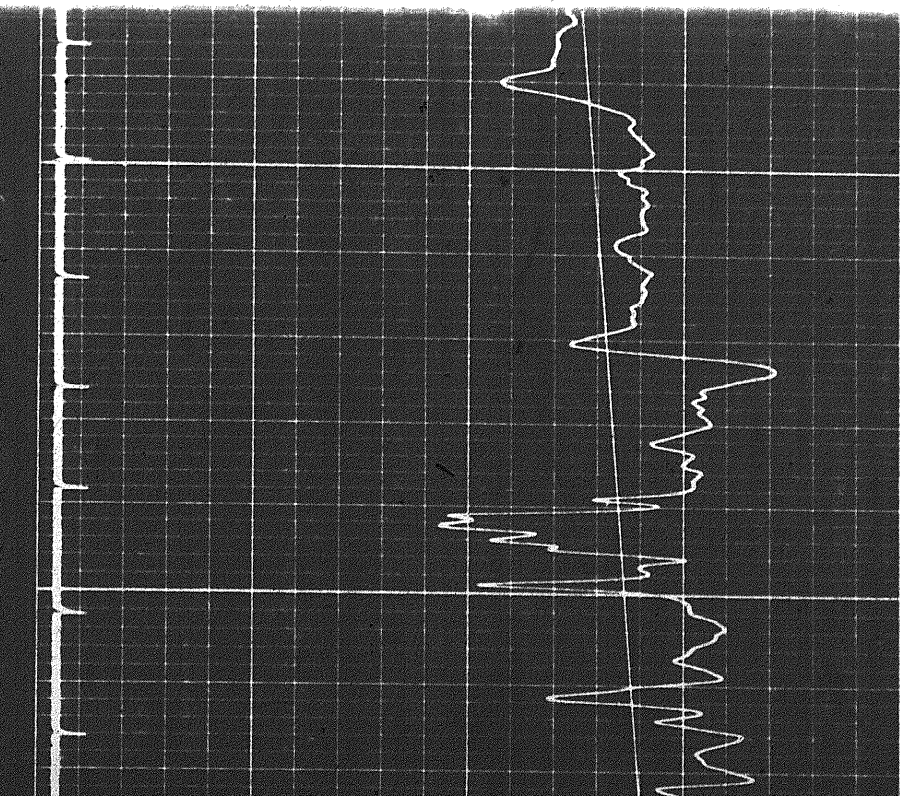


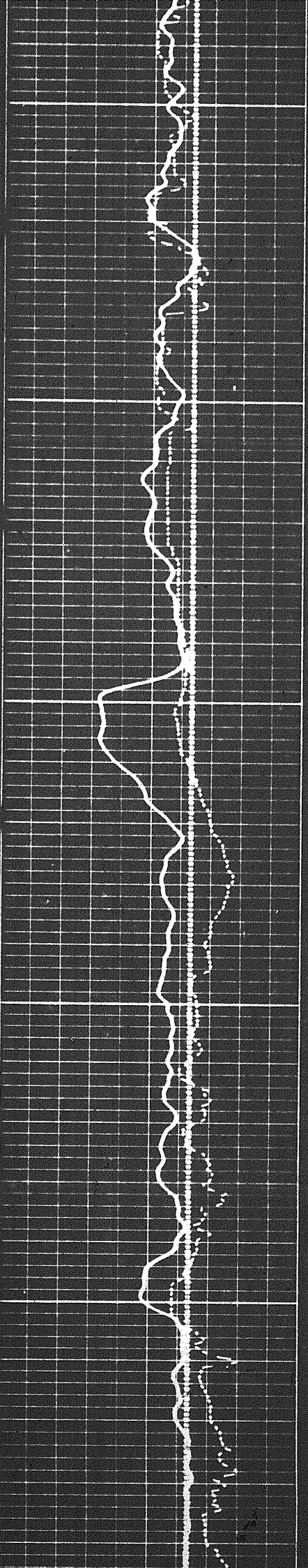


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4700

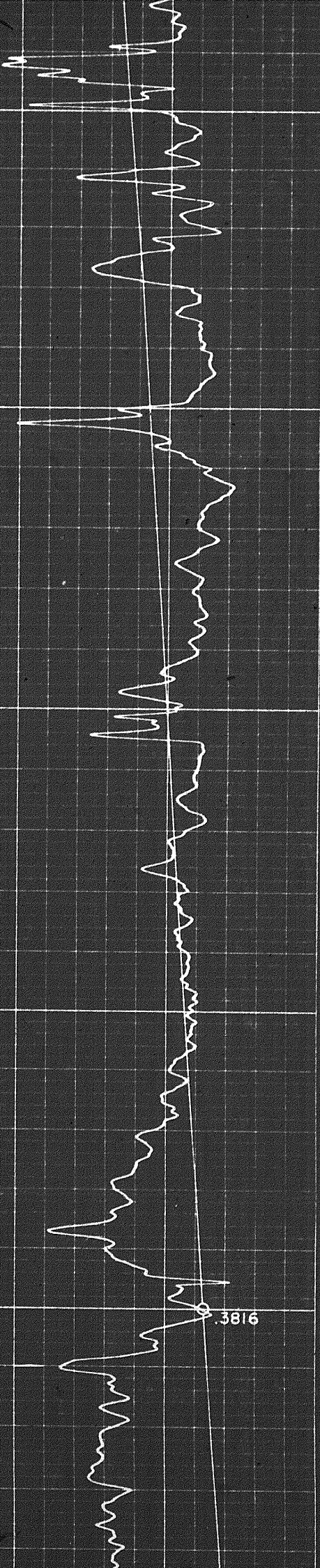
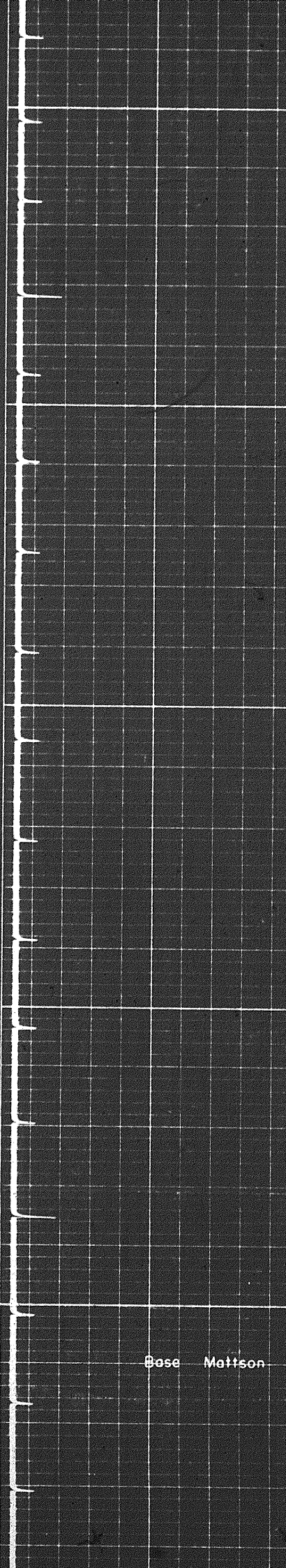




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4800

4900



3816

Base Mattson

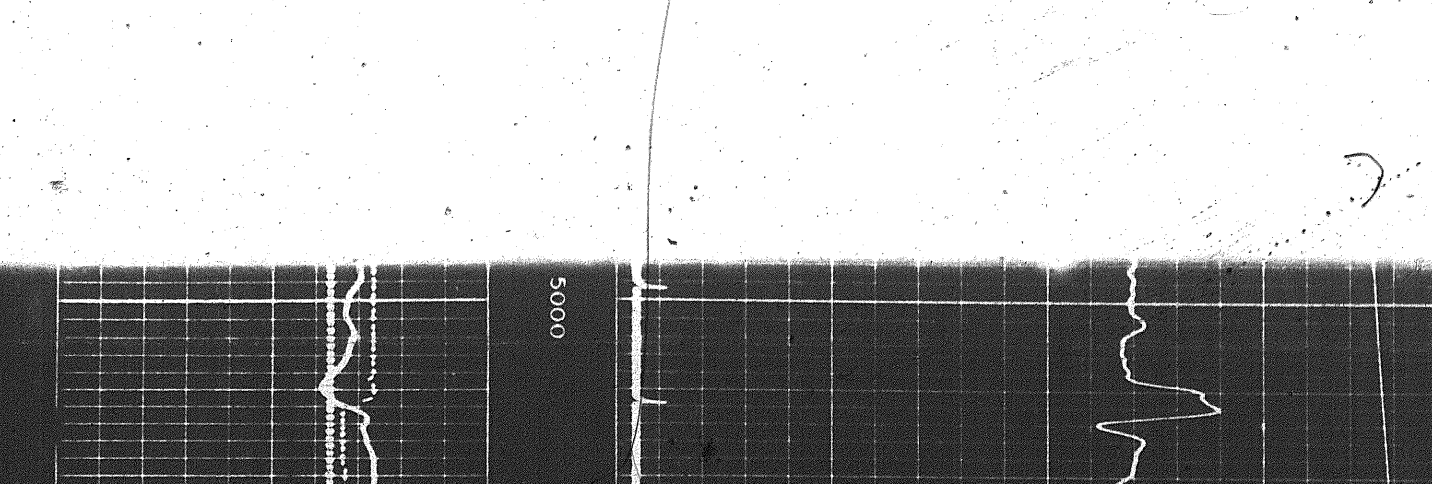
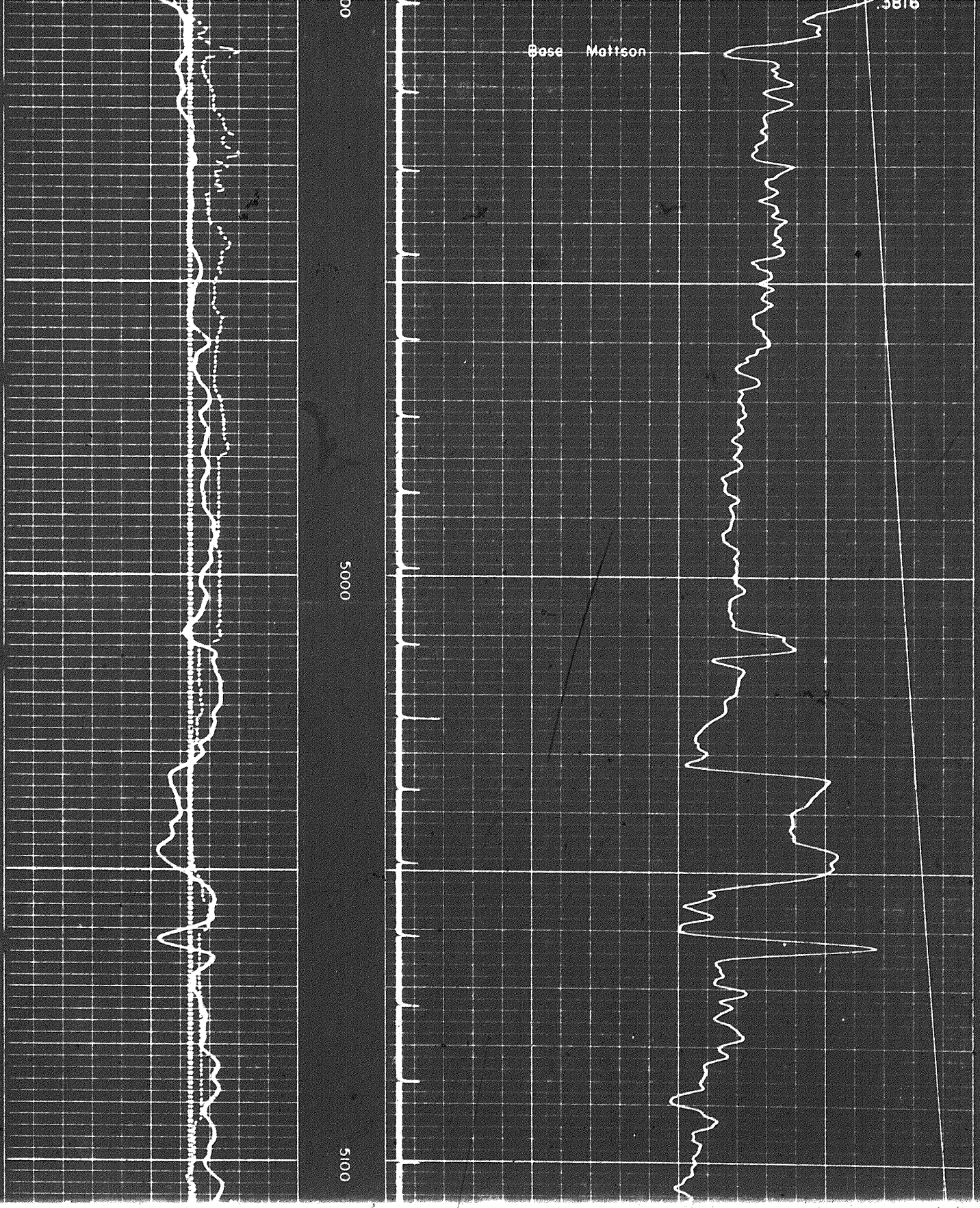
Bose Mattson

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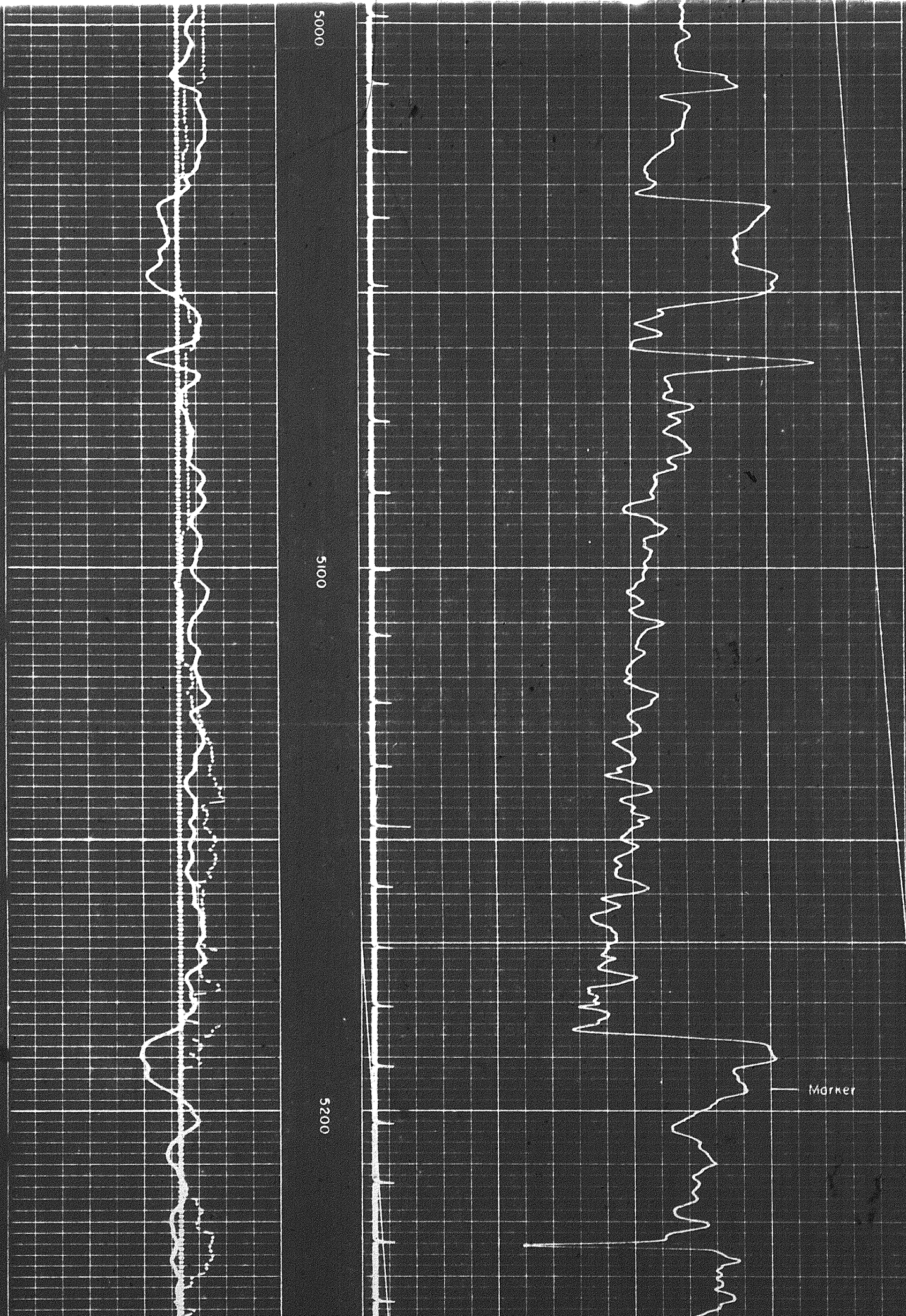
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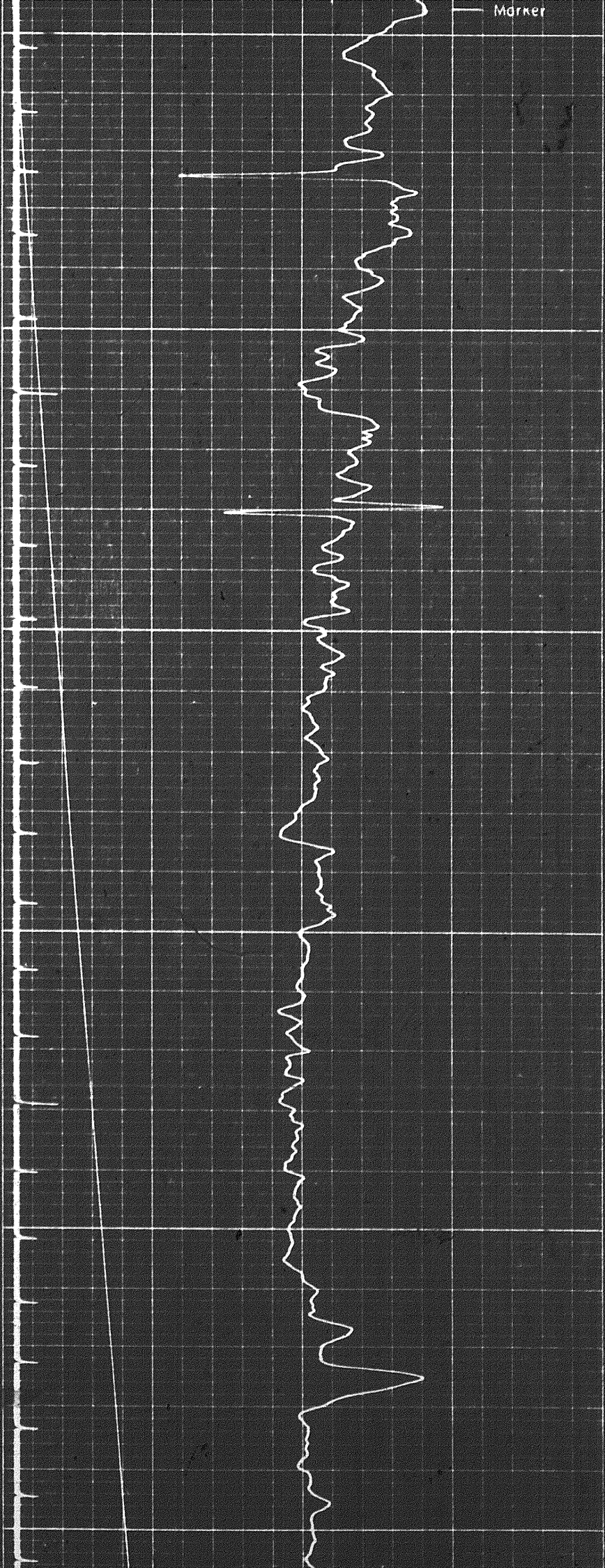
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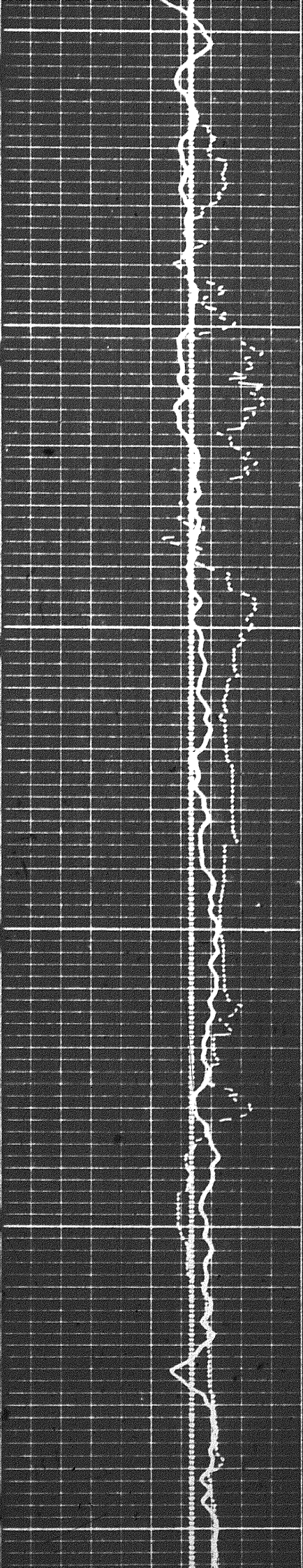
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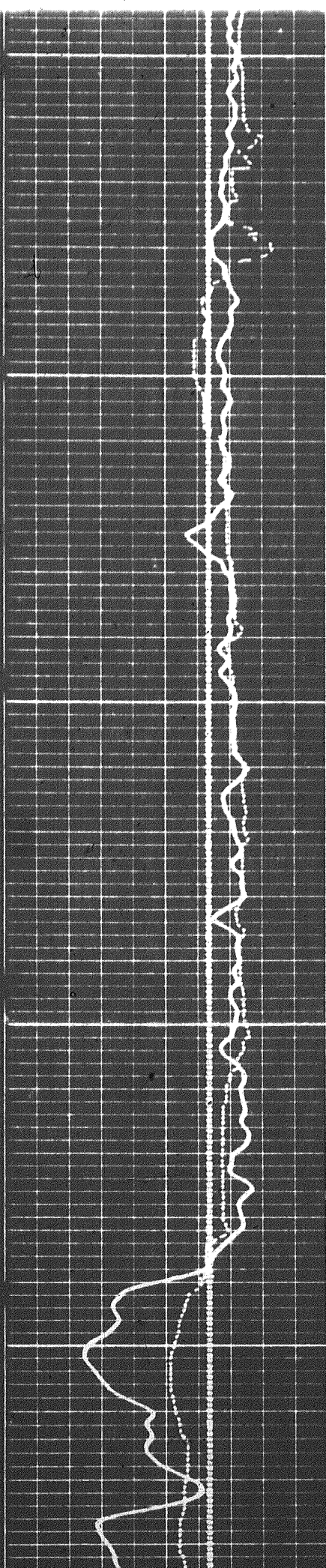


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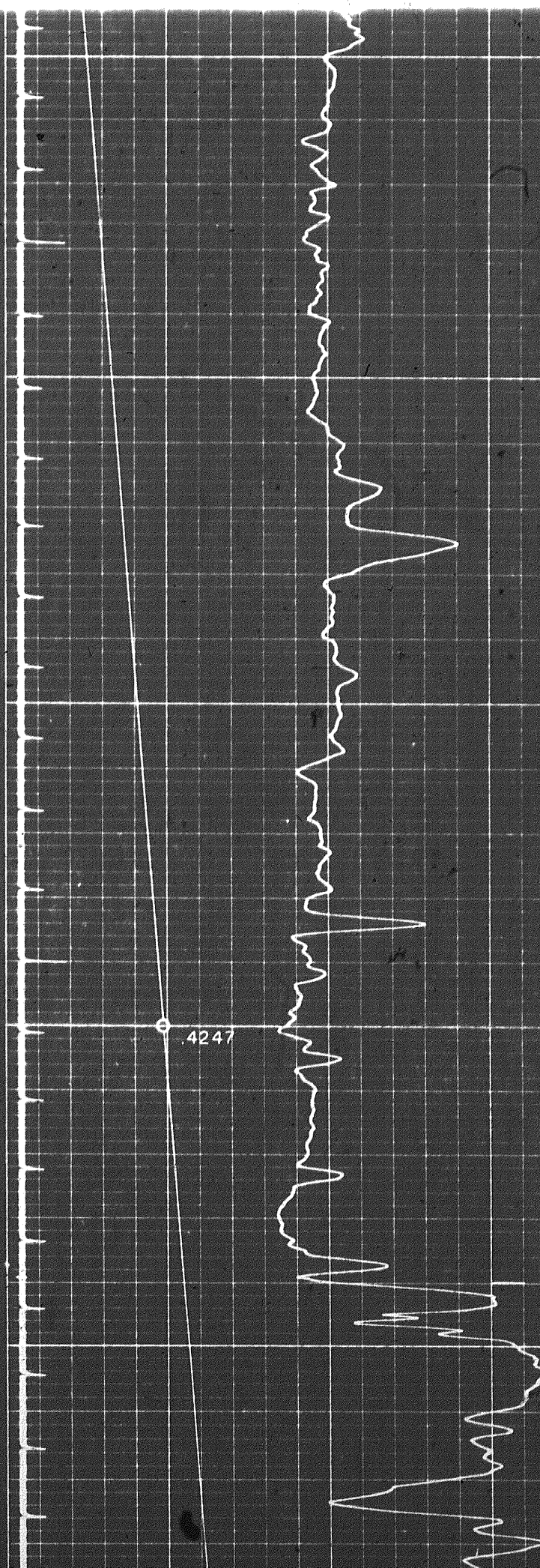
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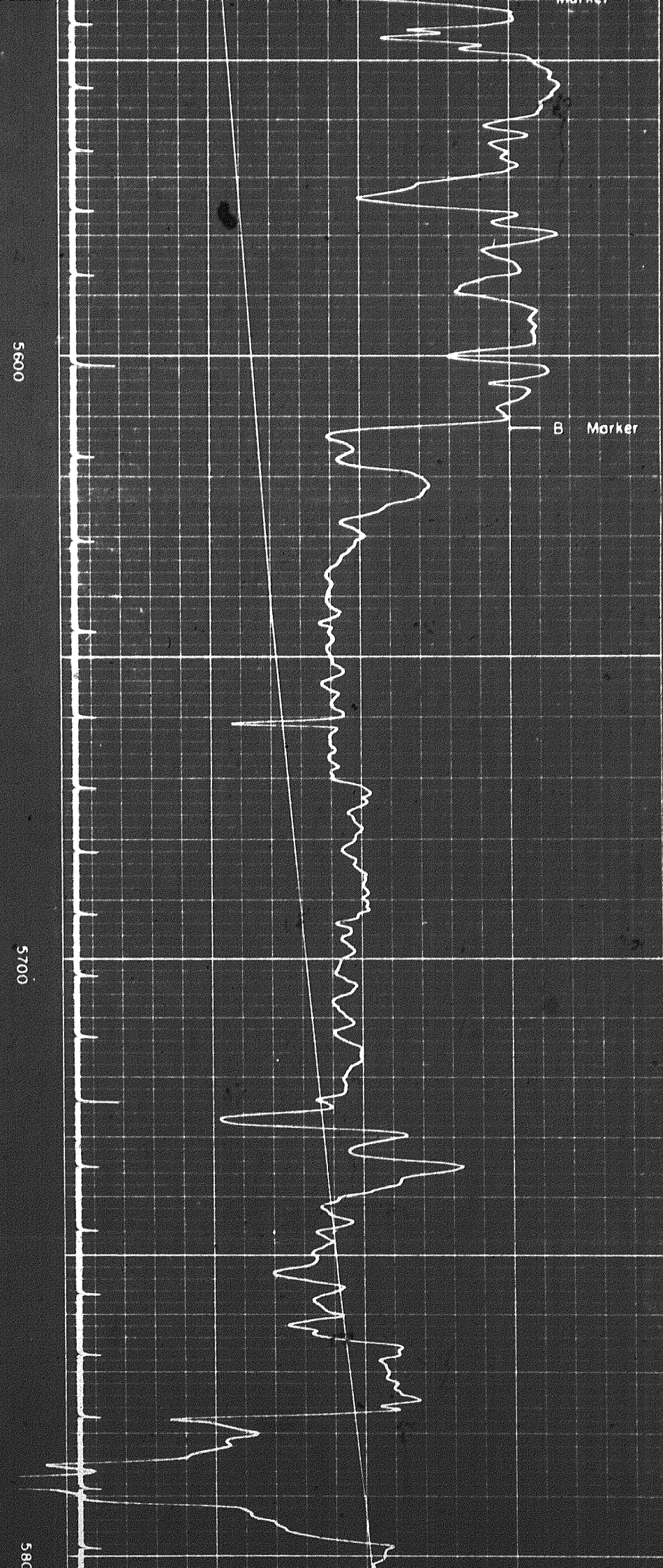
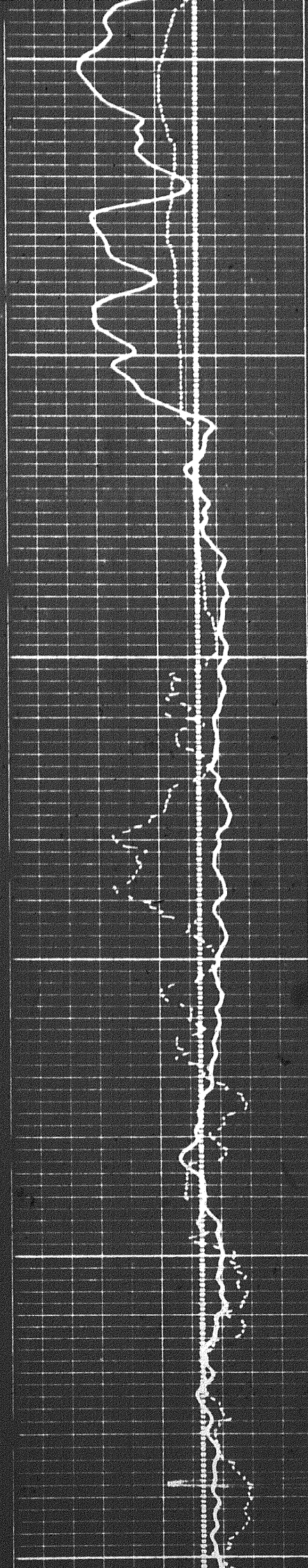


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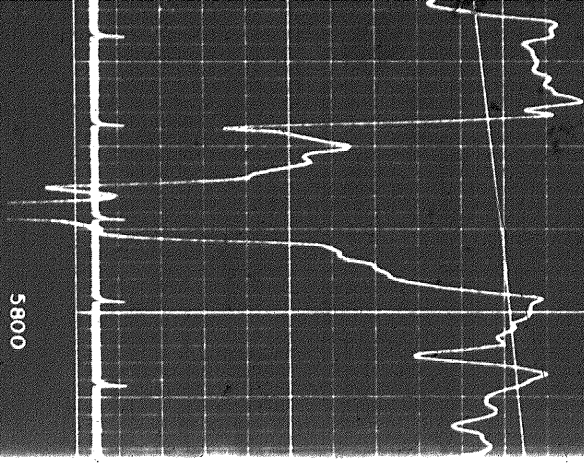
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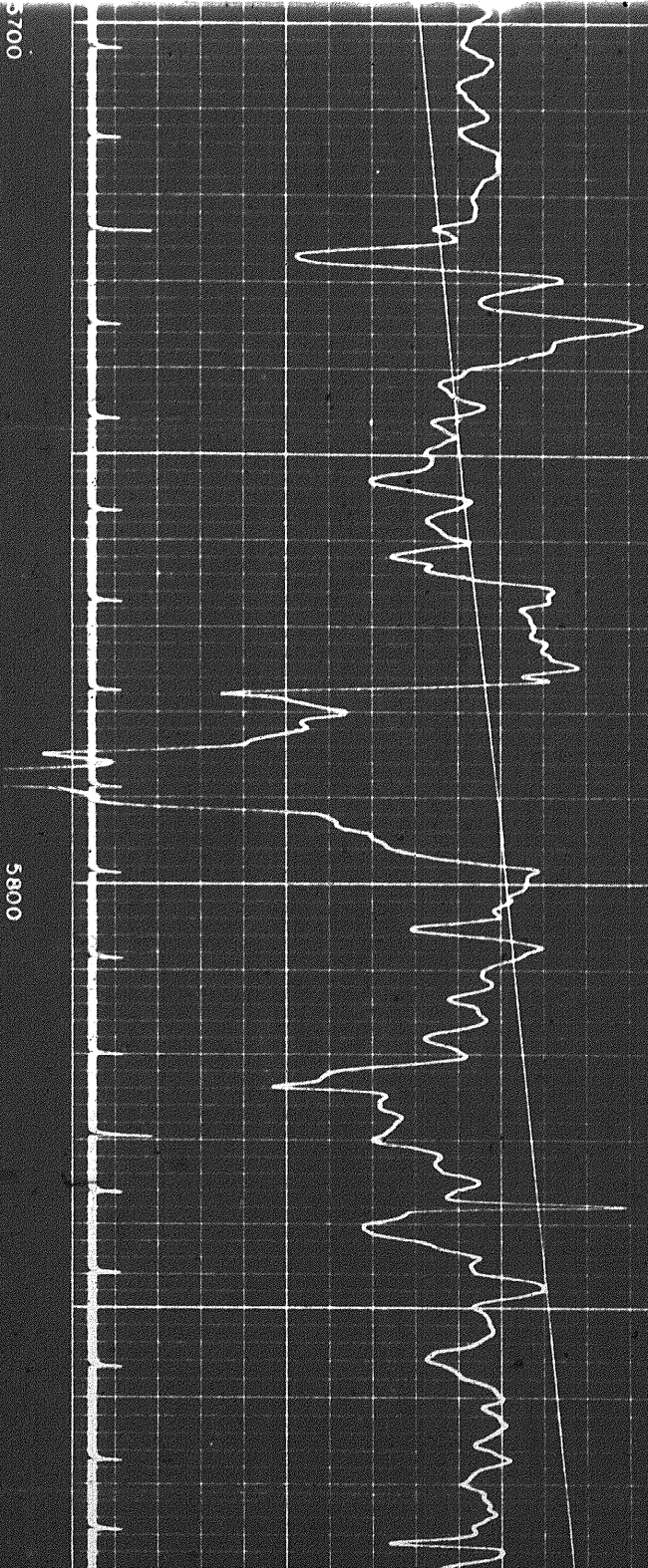
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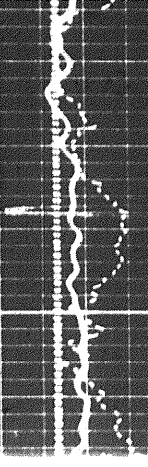
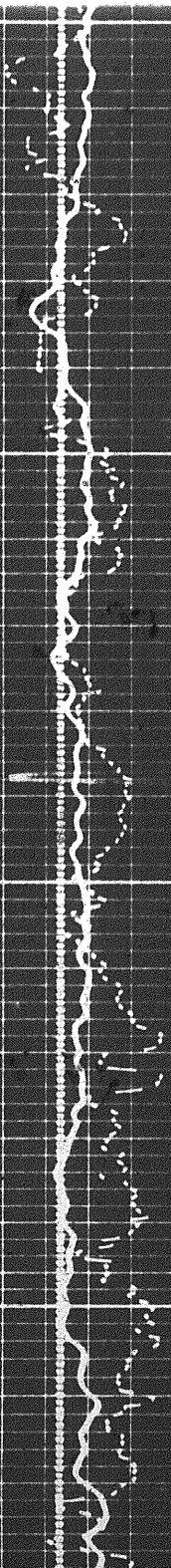
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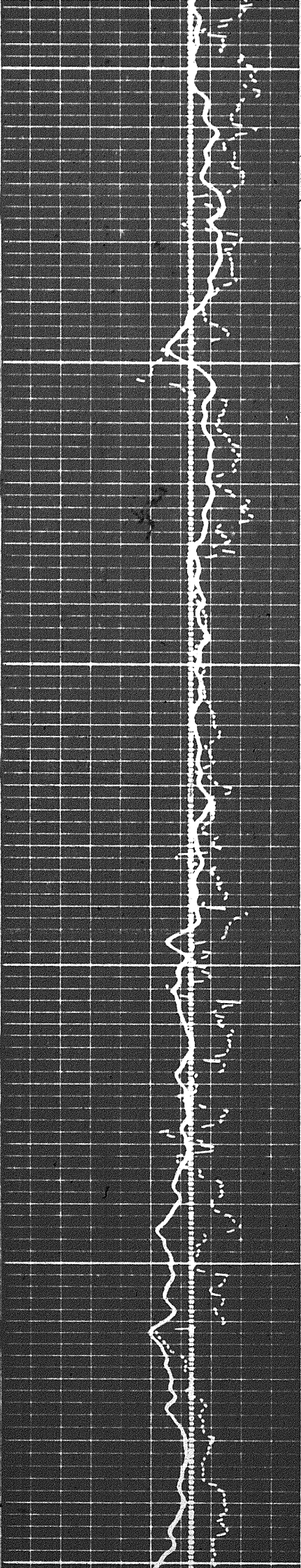


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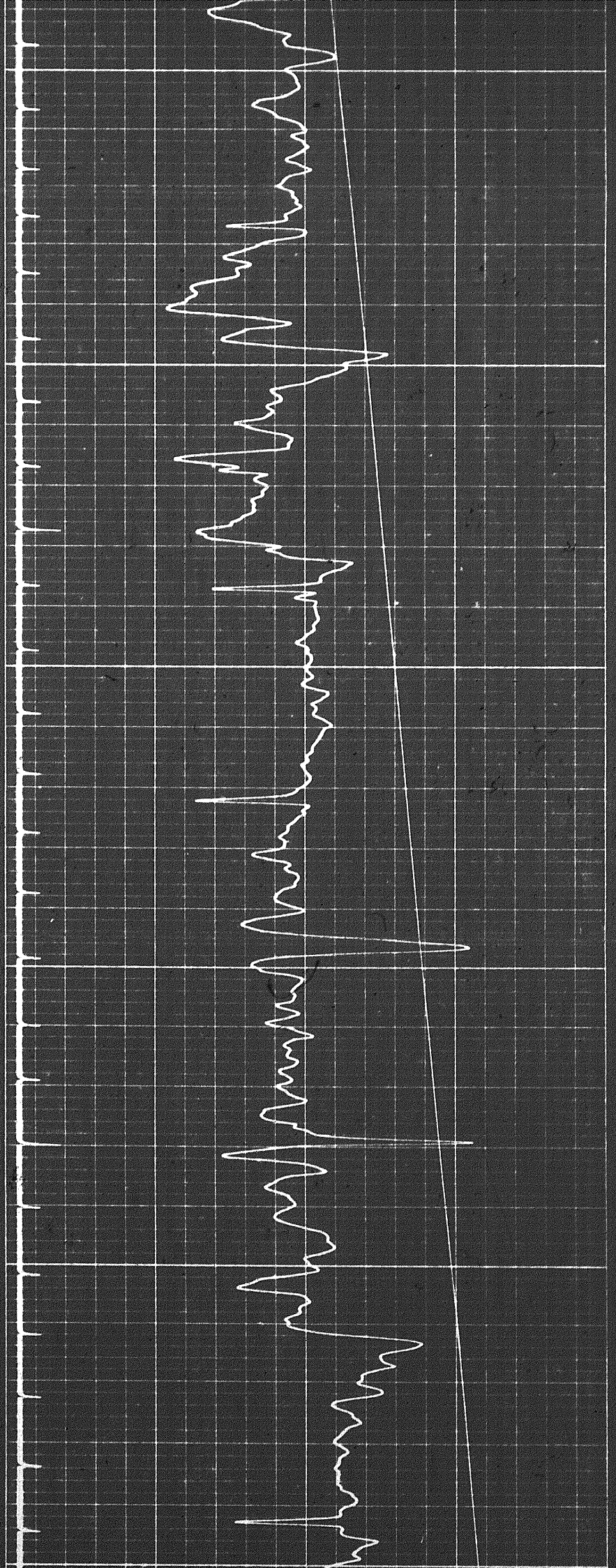


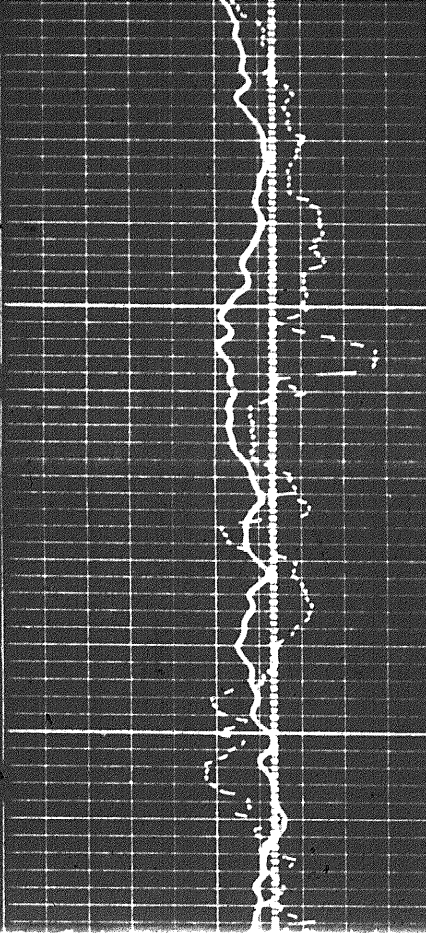


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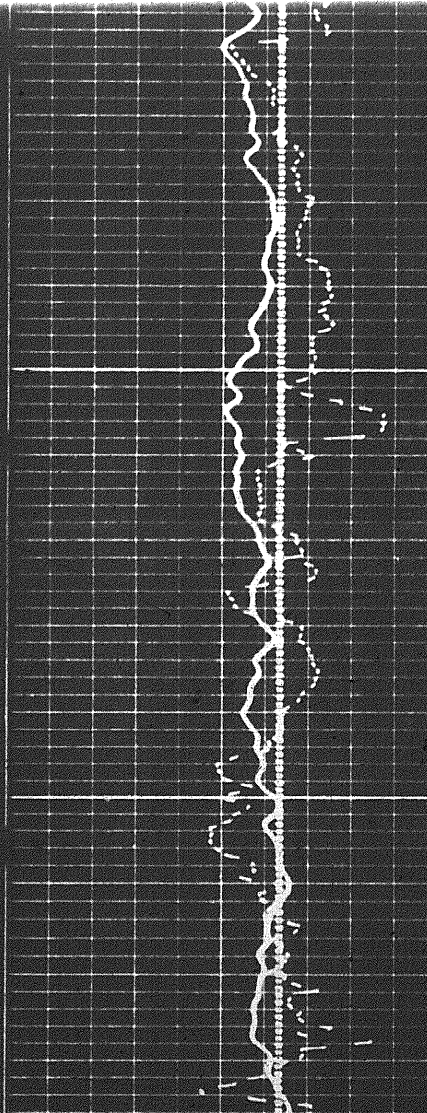
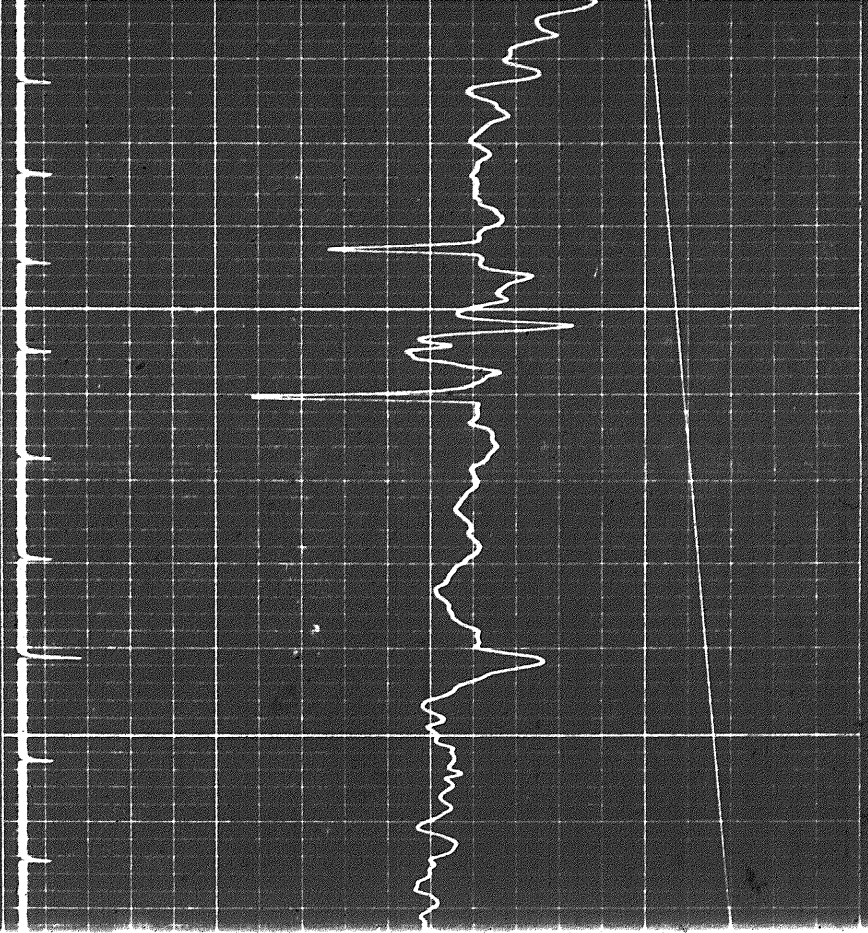
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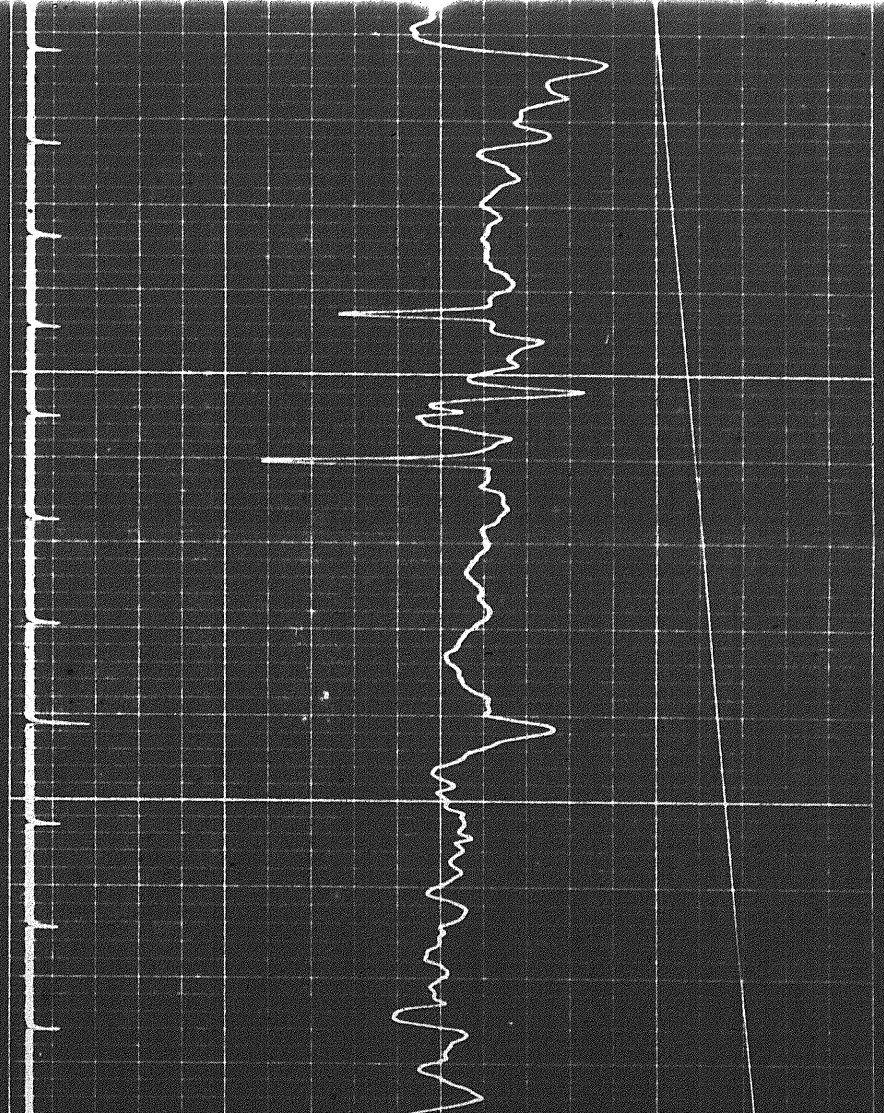


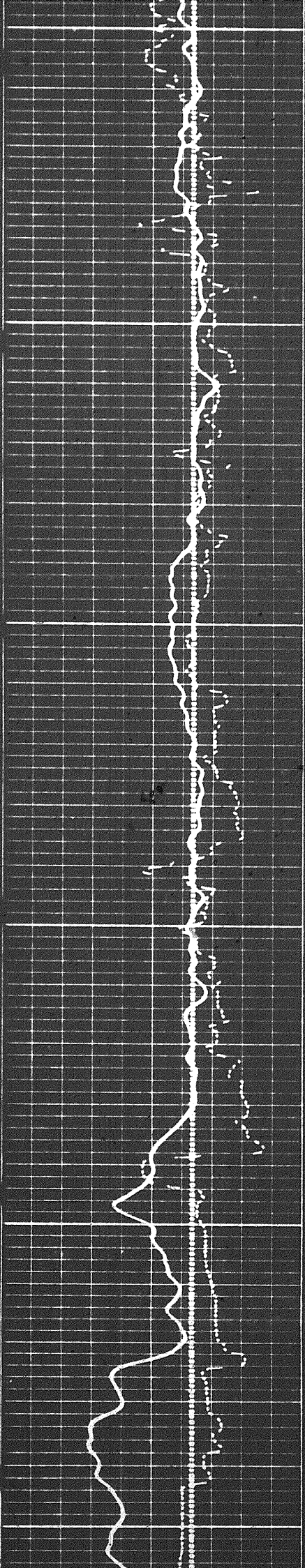


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0019



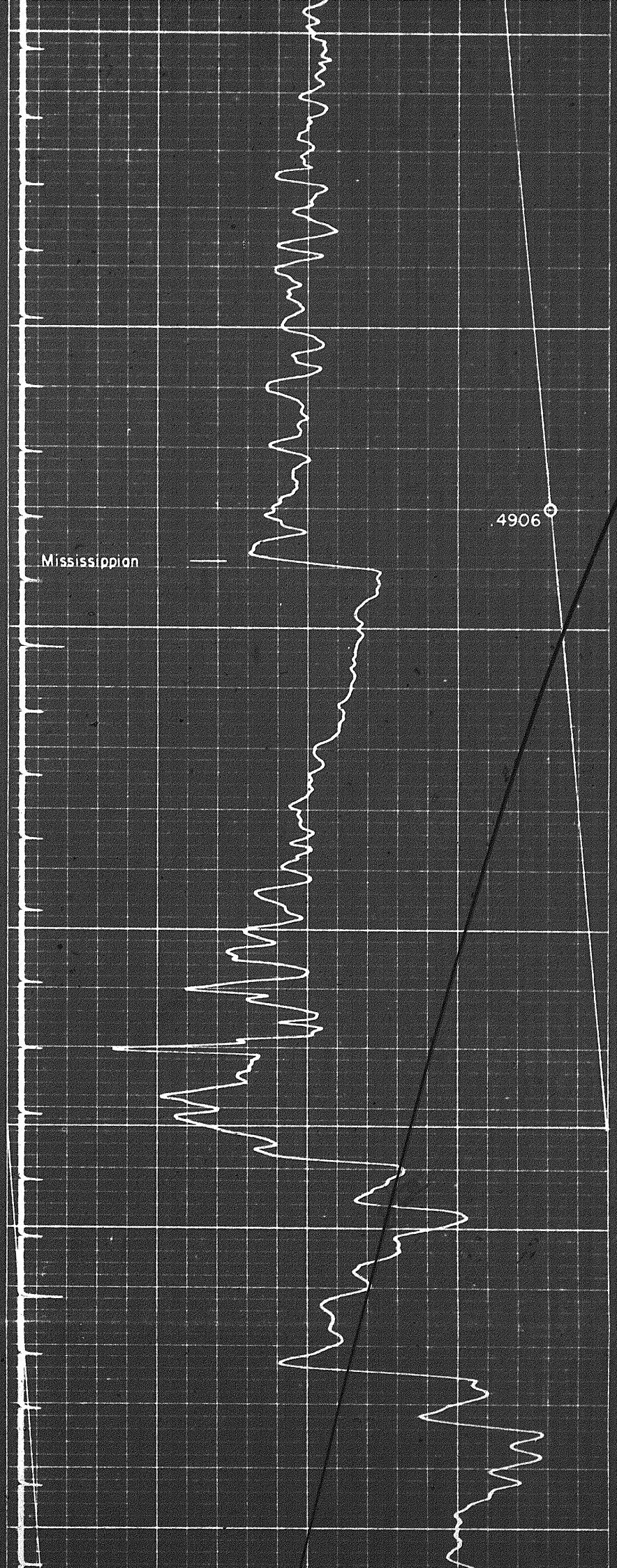


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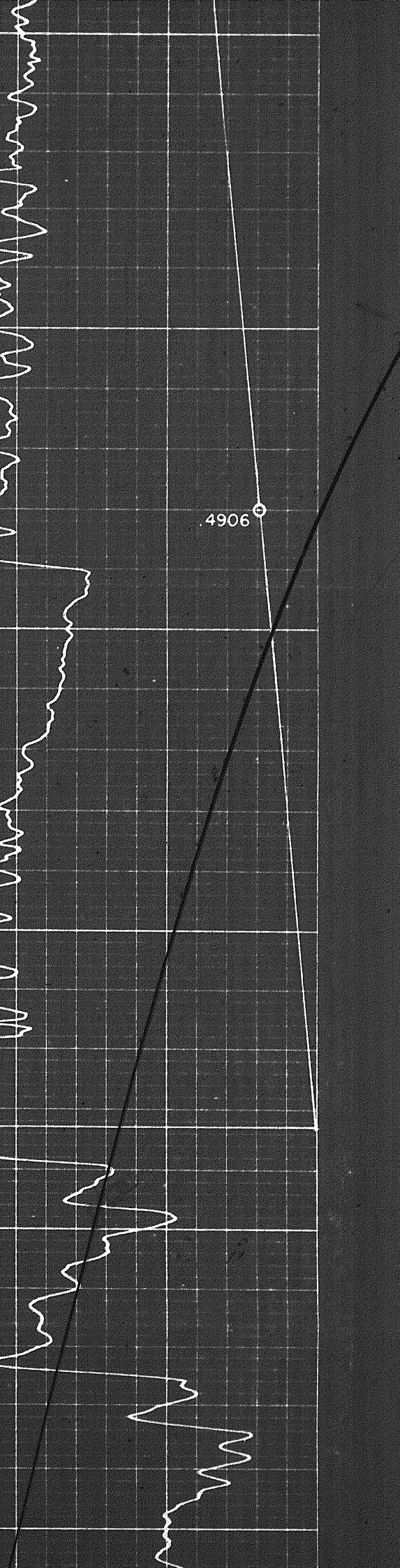
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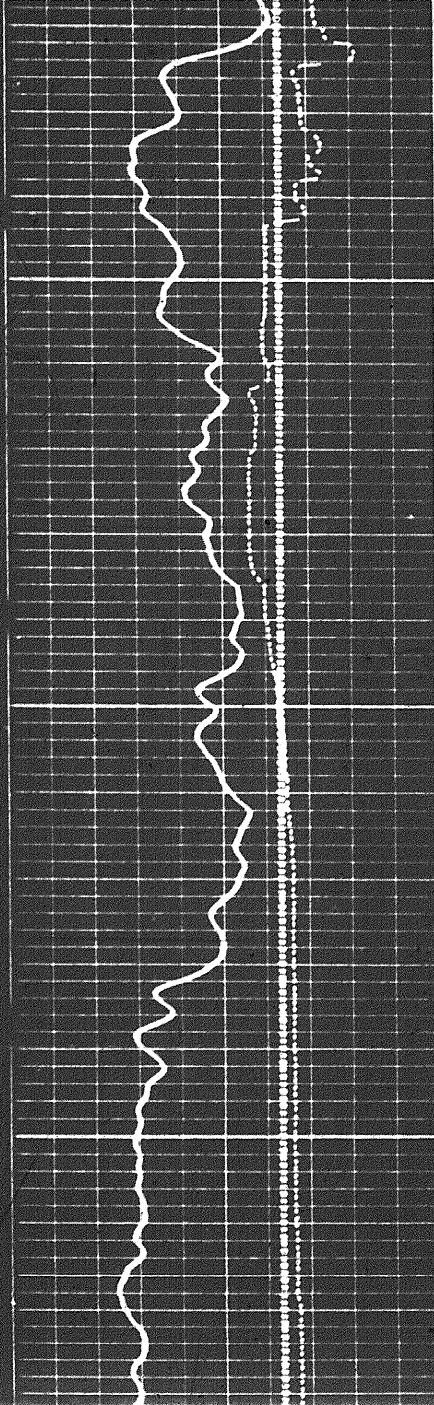
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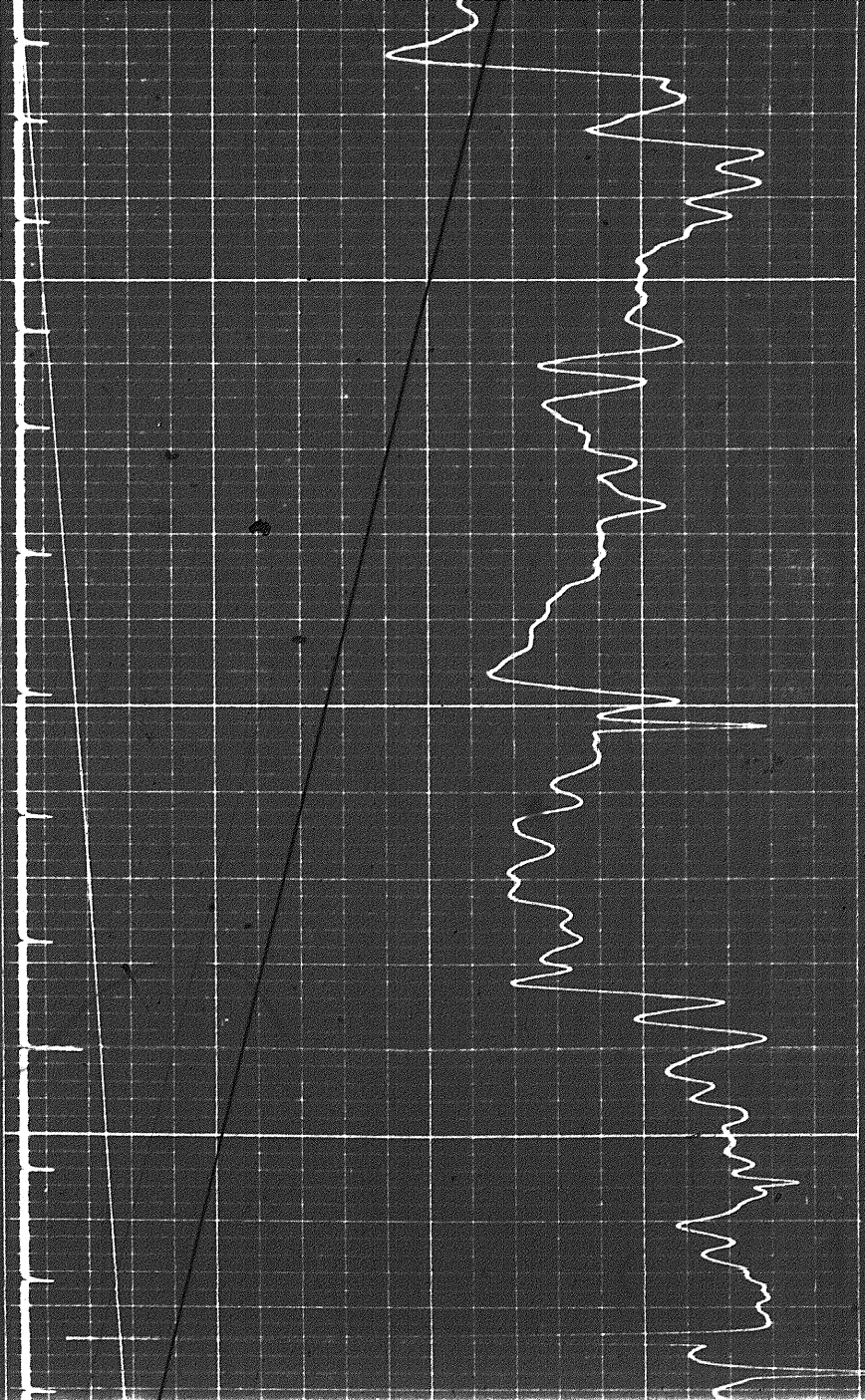


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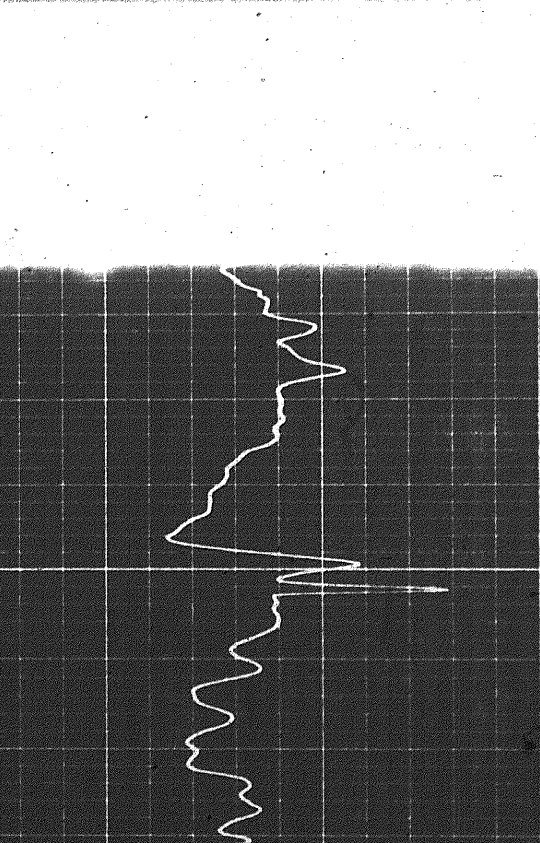
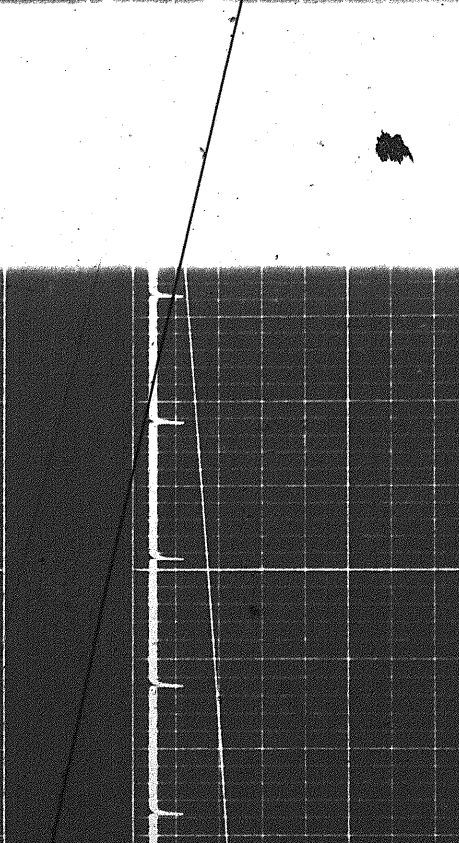
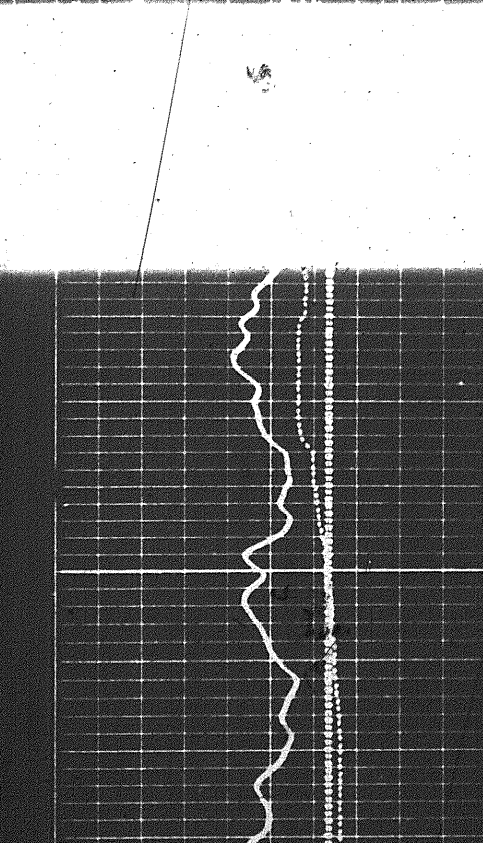


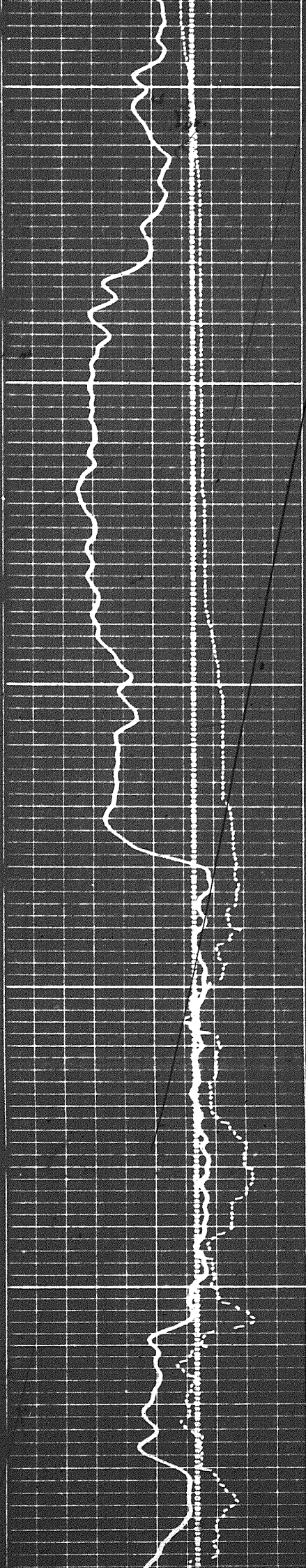


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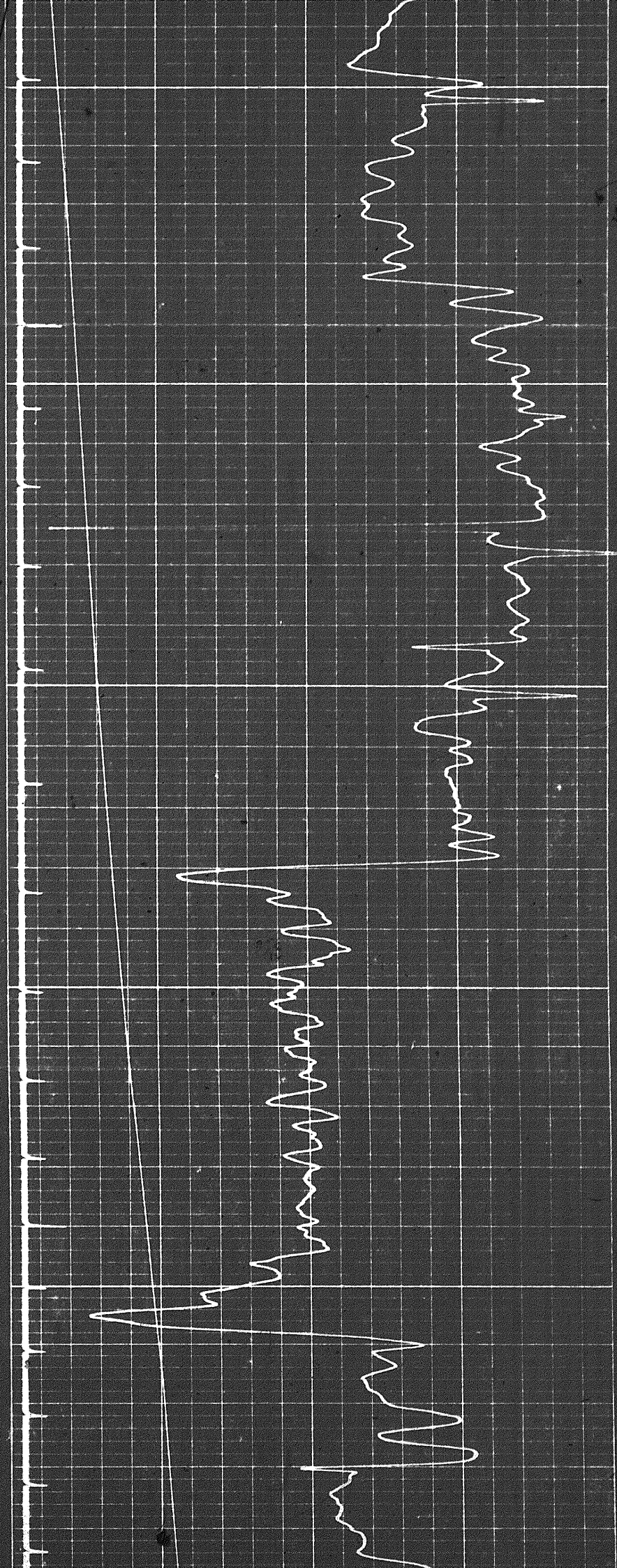
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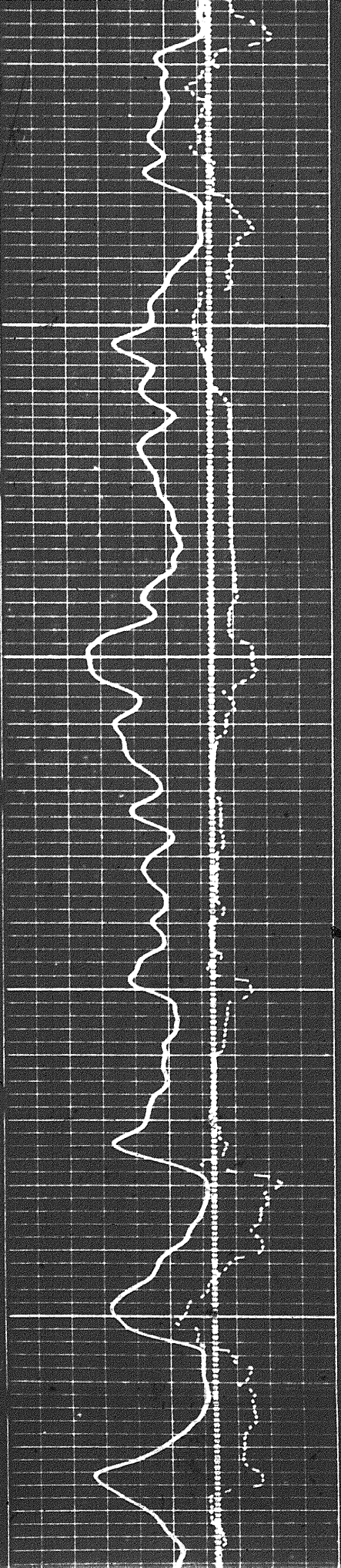




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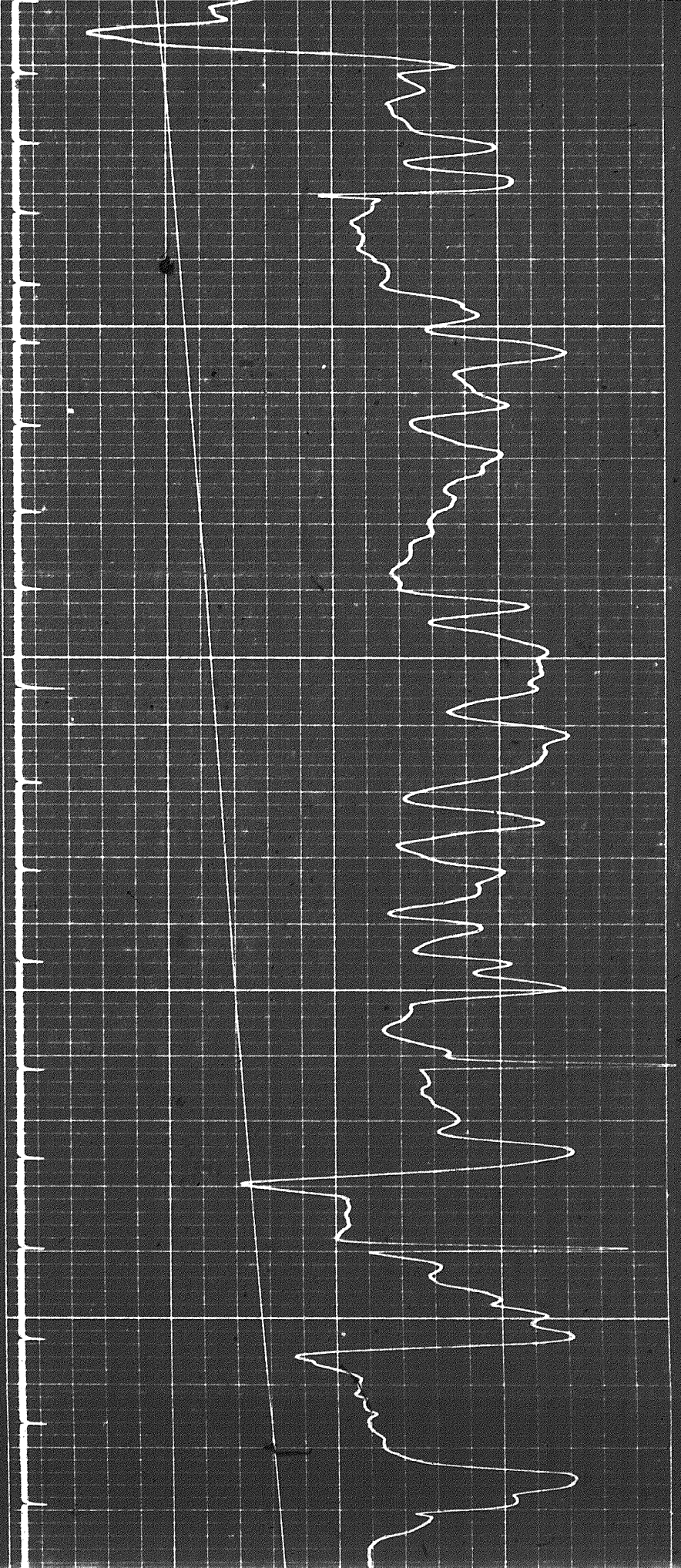
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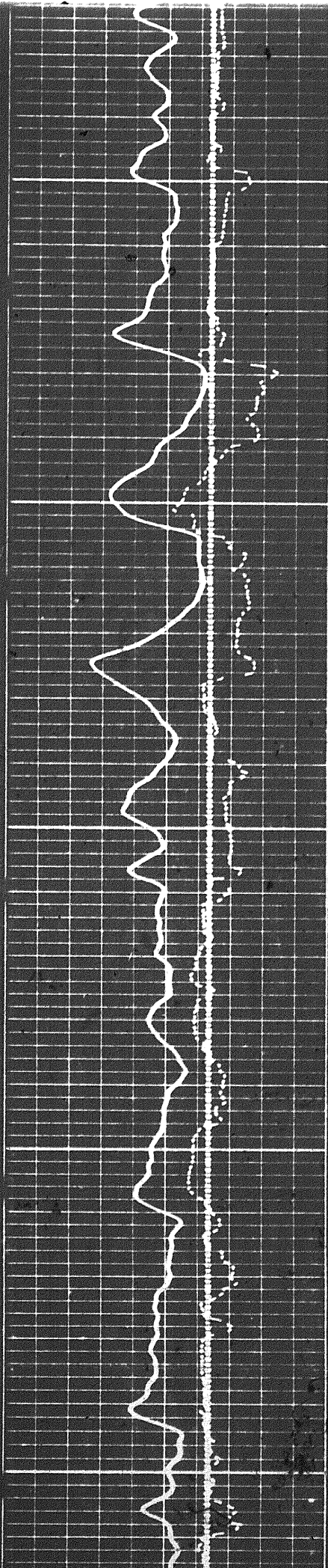




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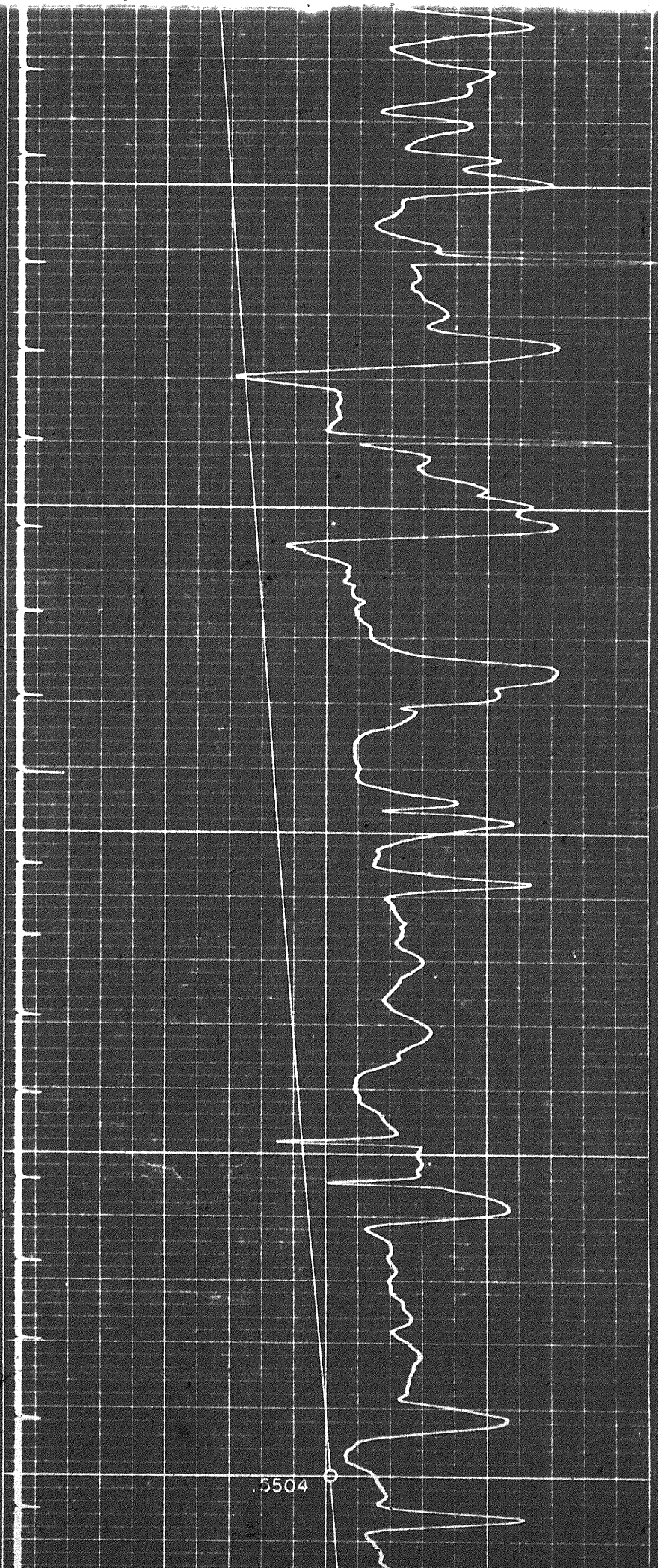




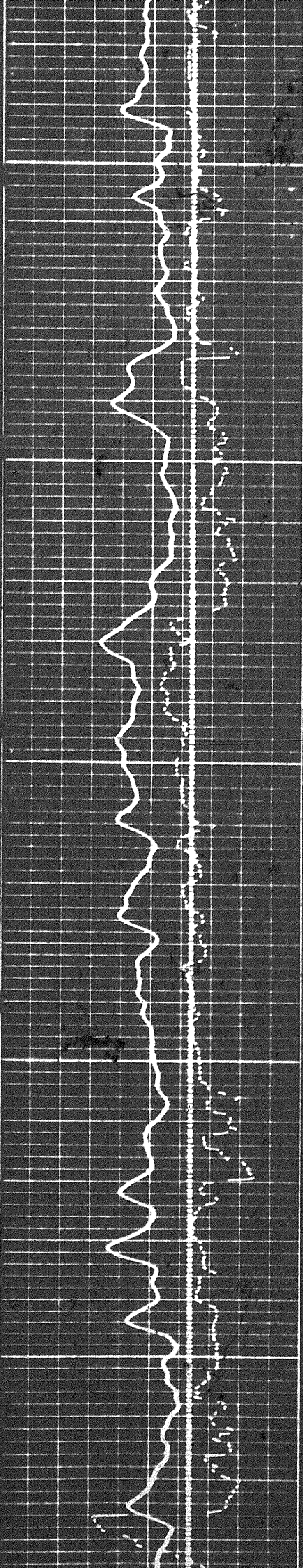
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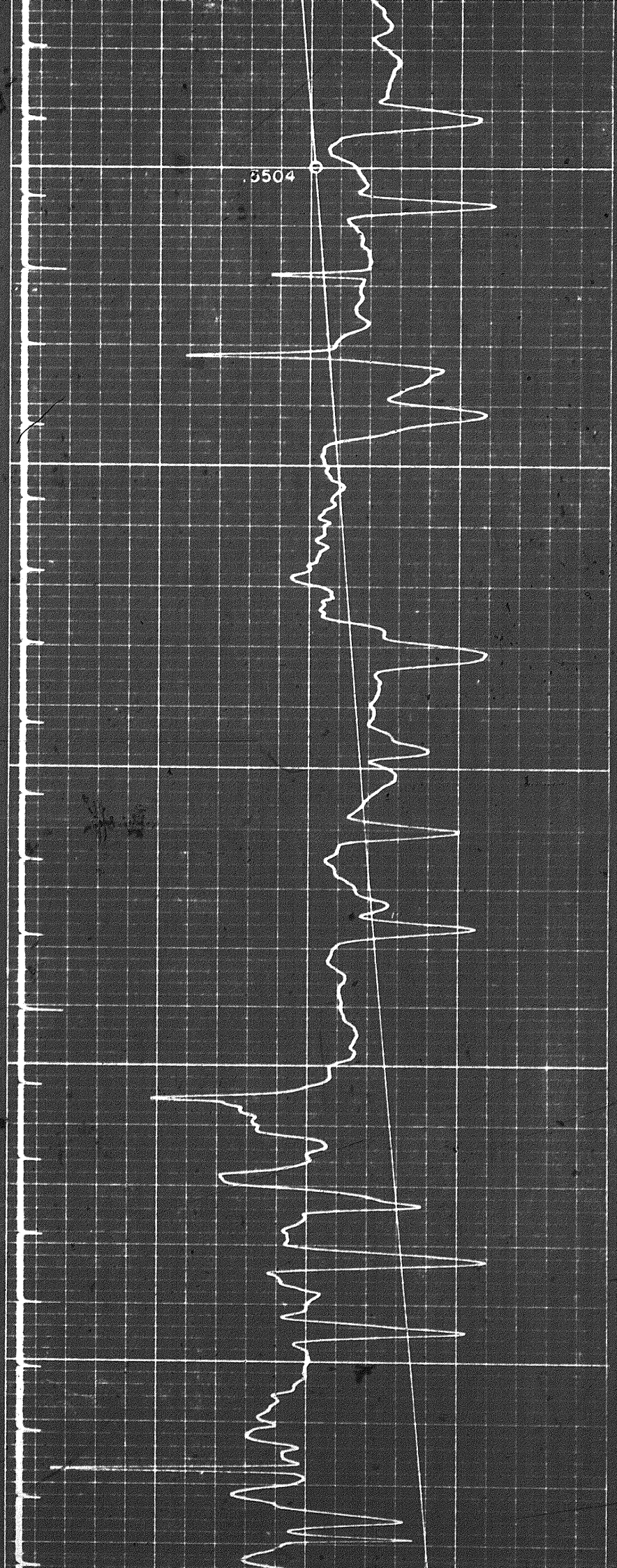
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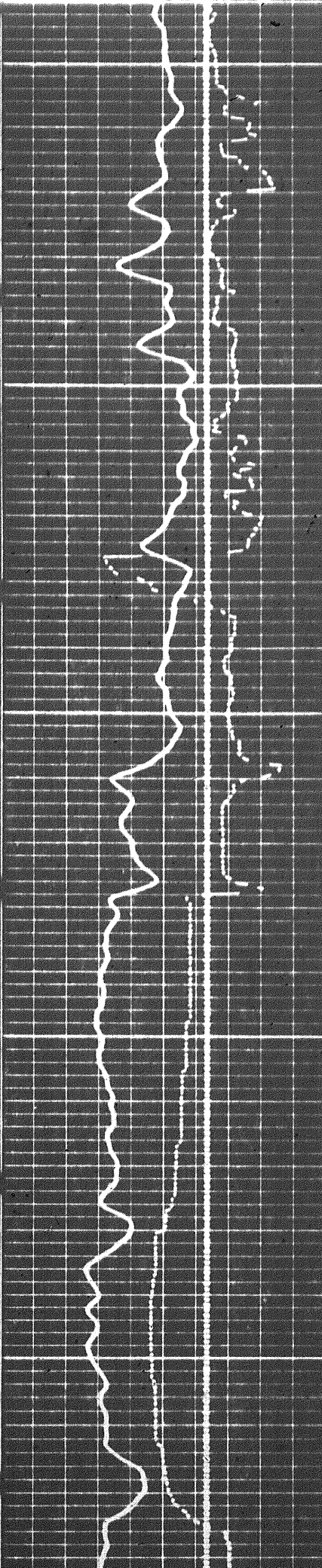


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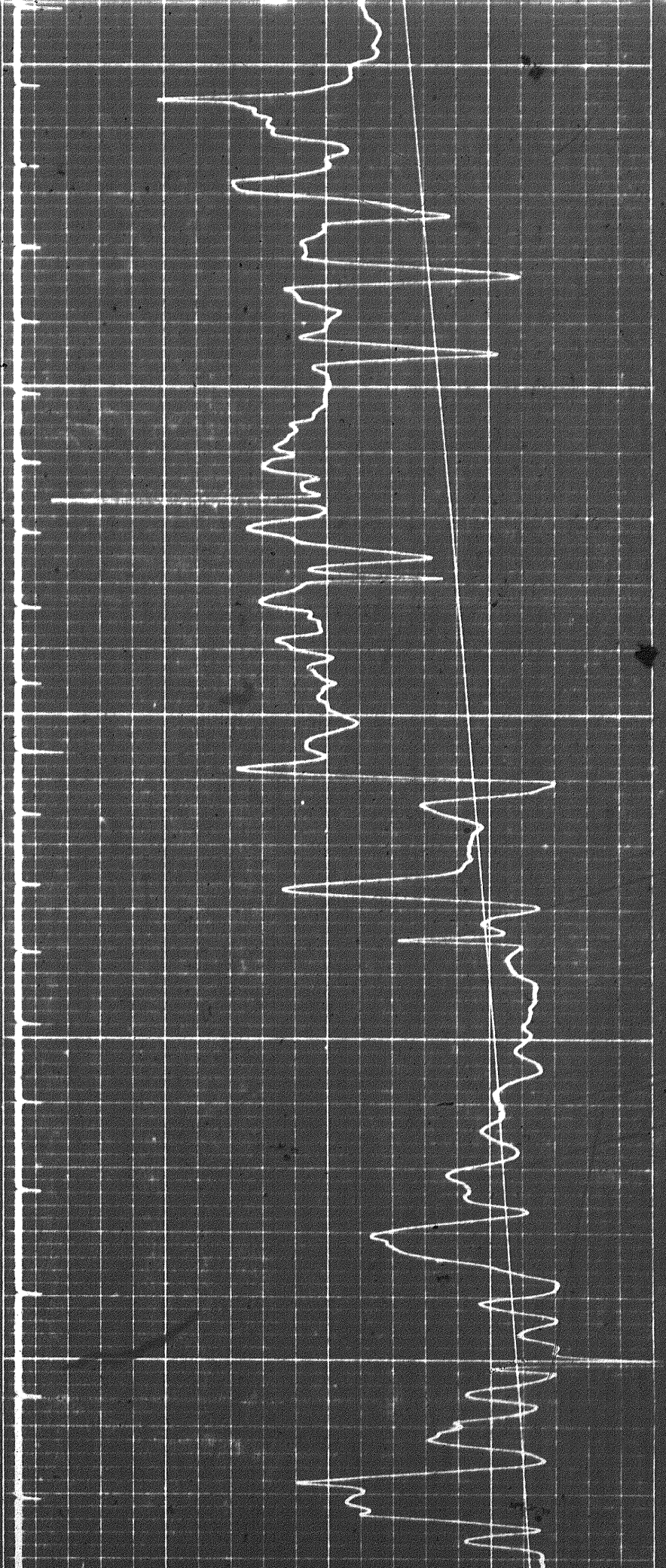
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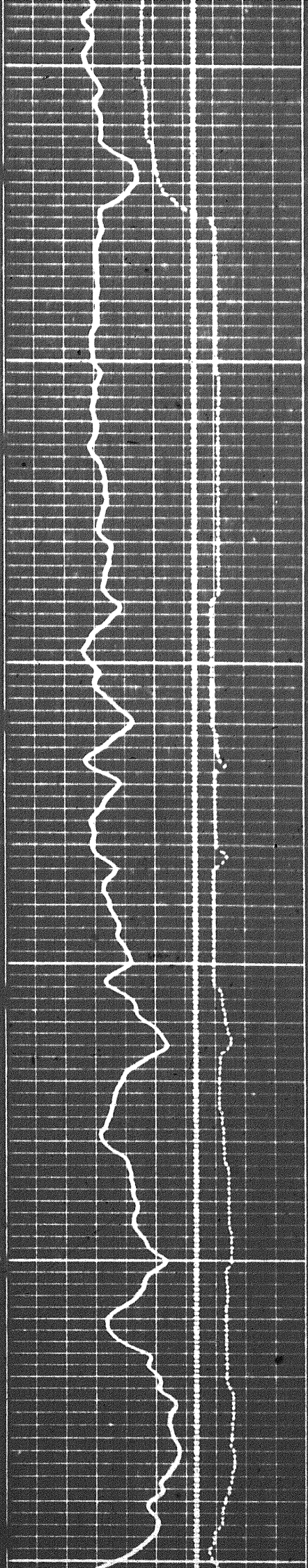




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7300

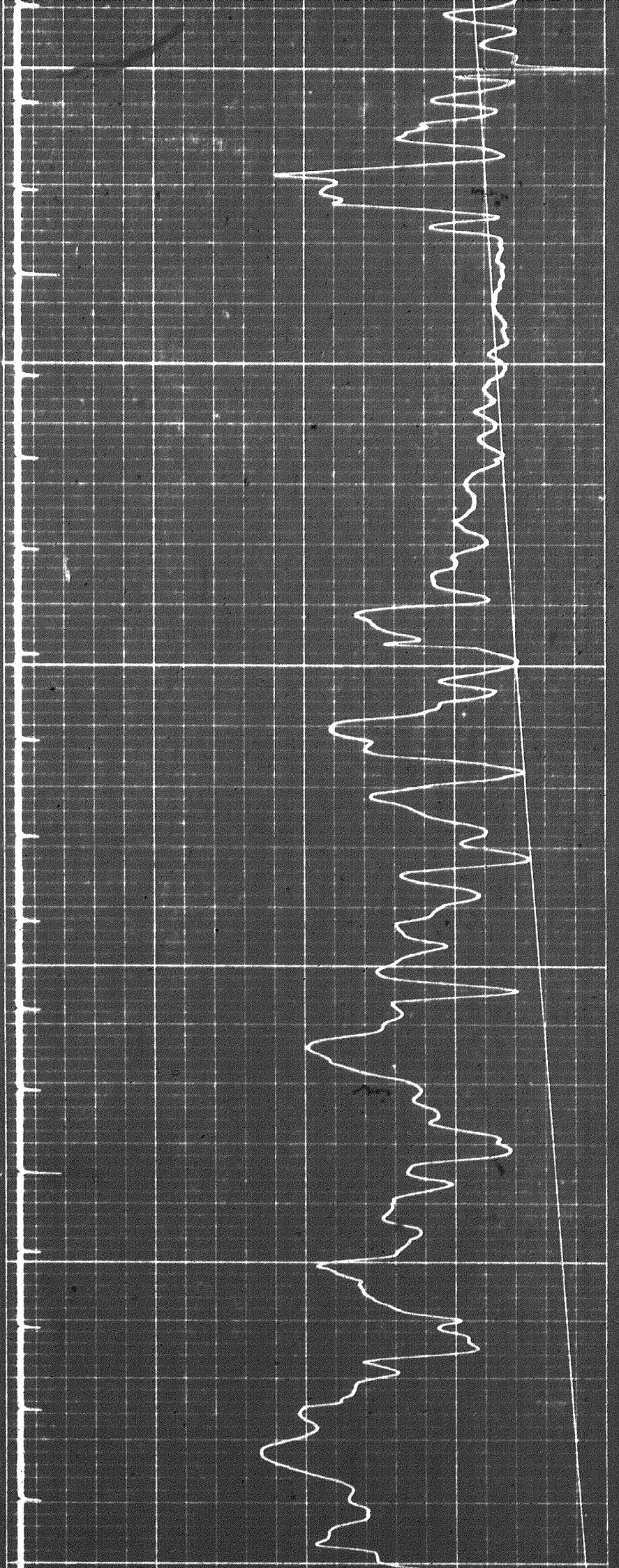


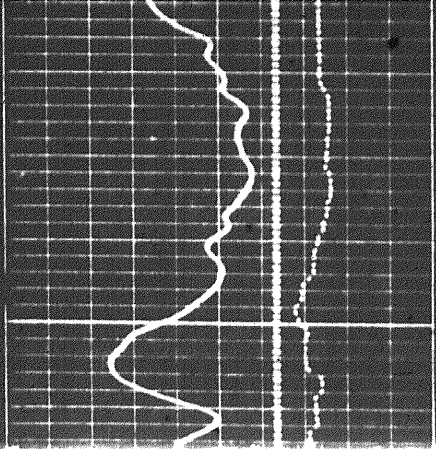


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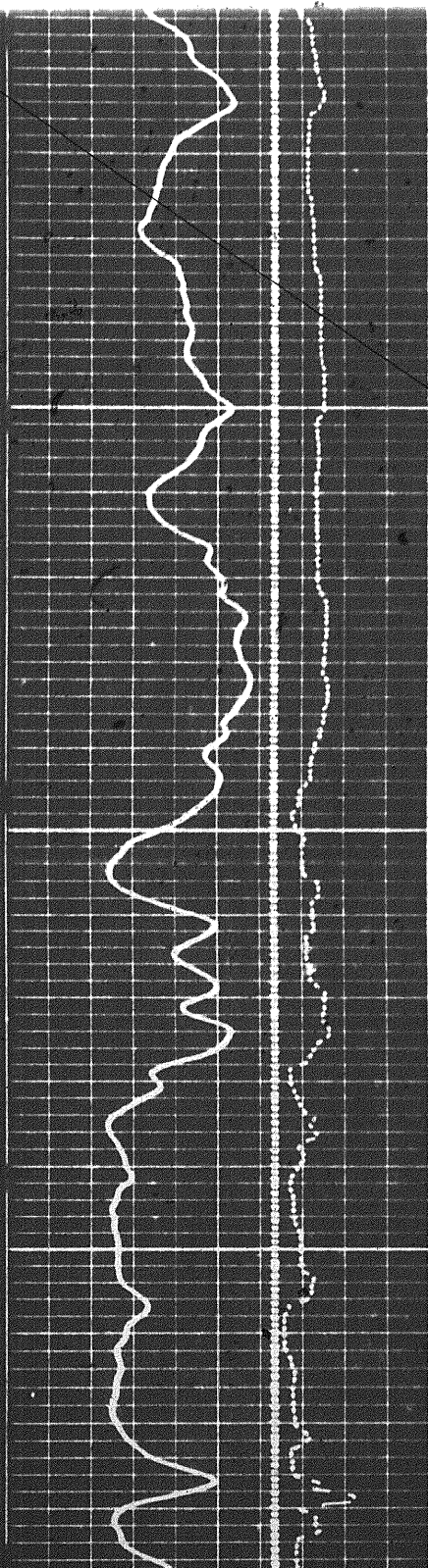
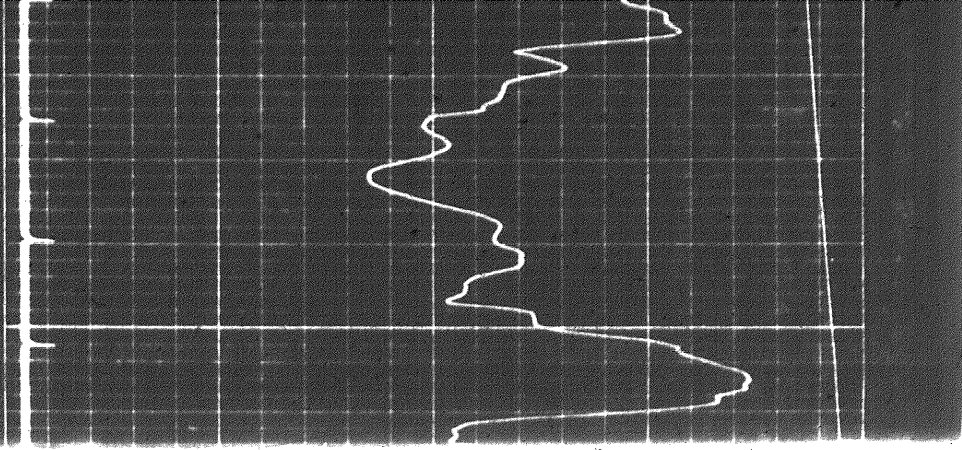
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76

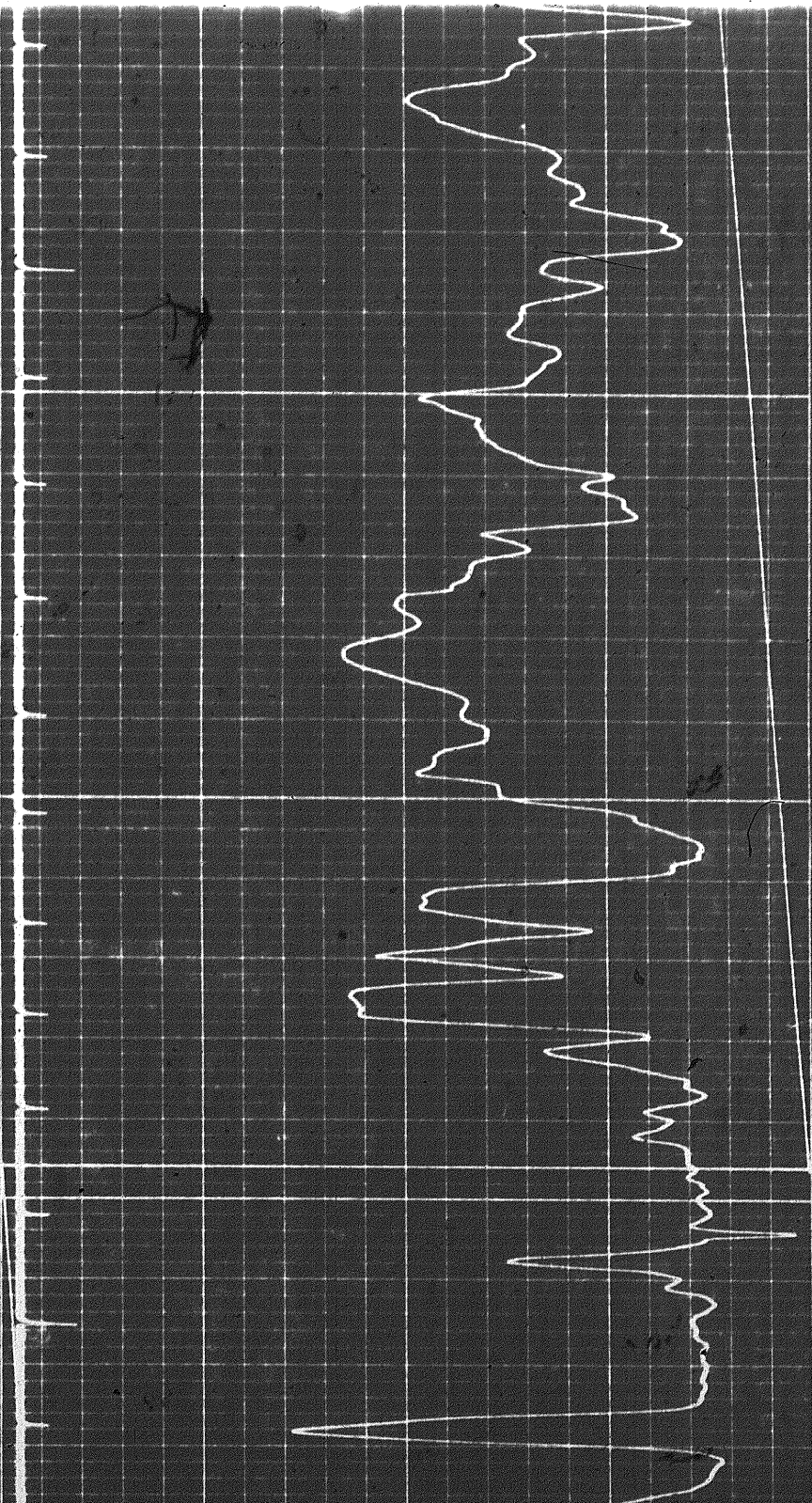


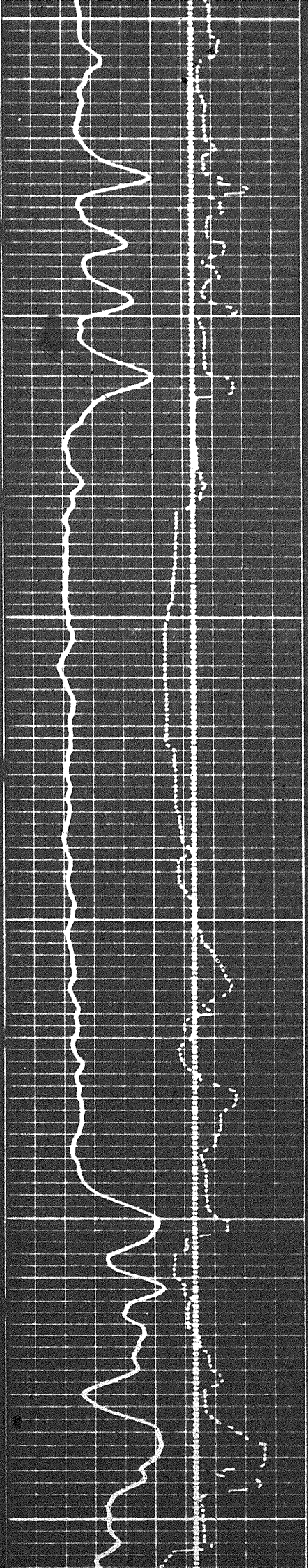


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7600

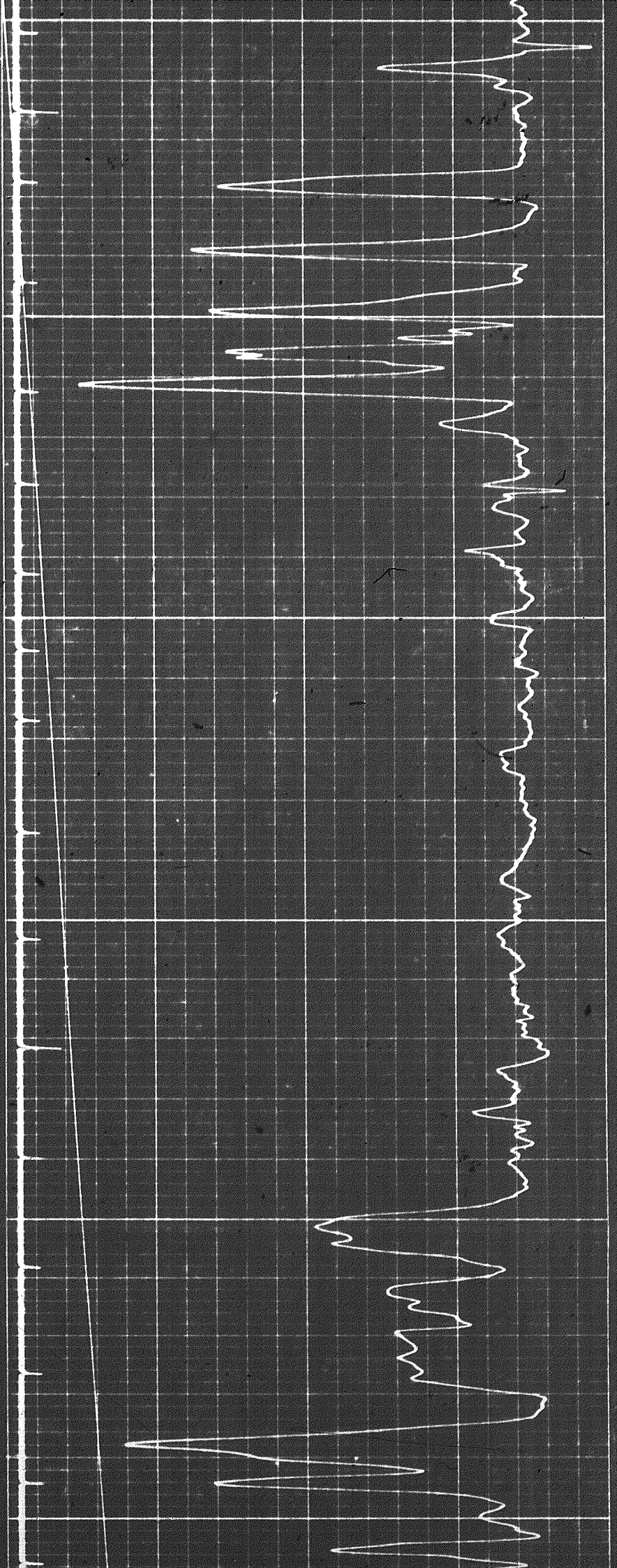


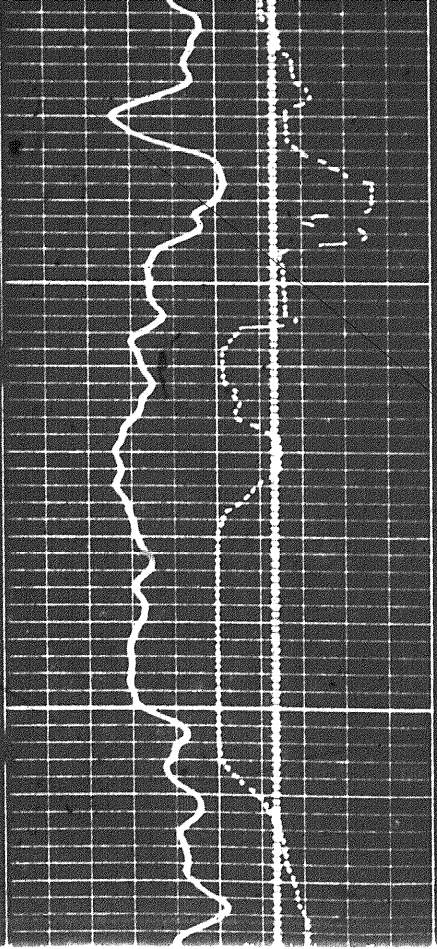


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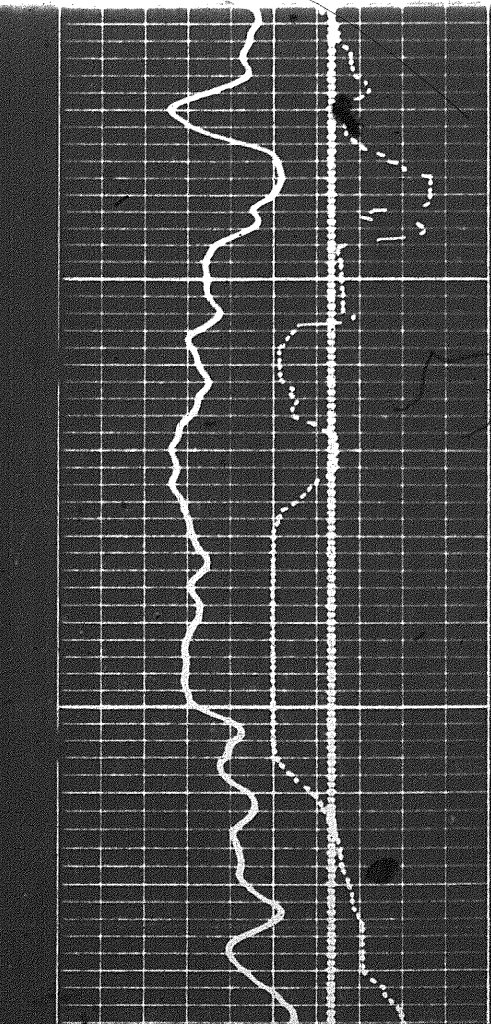
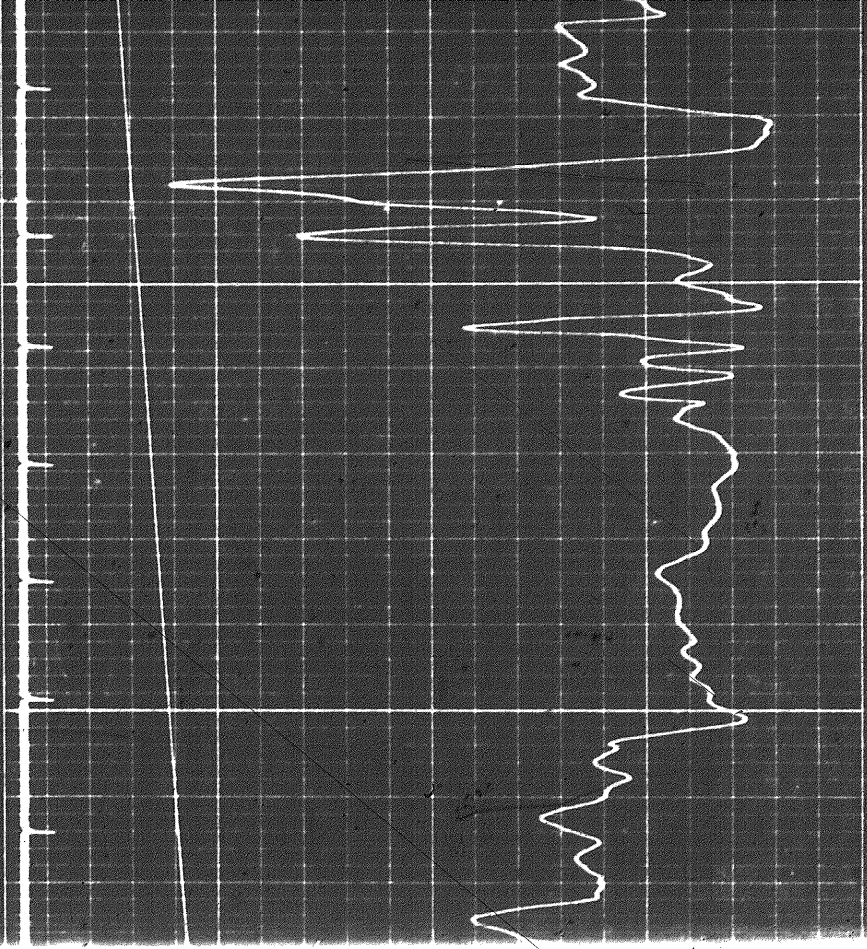
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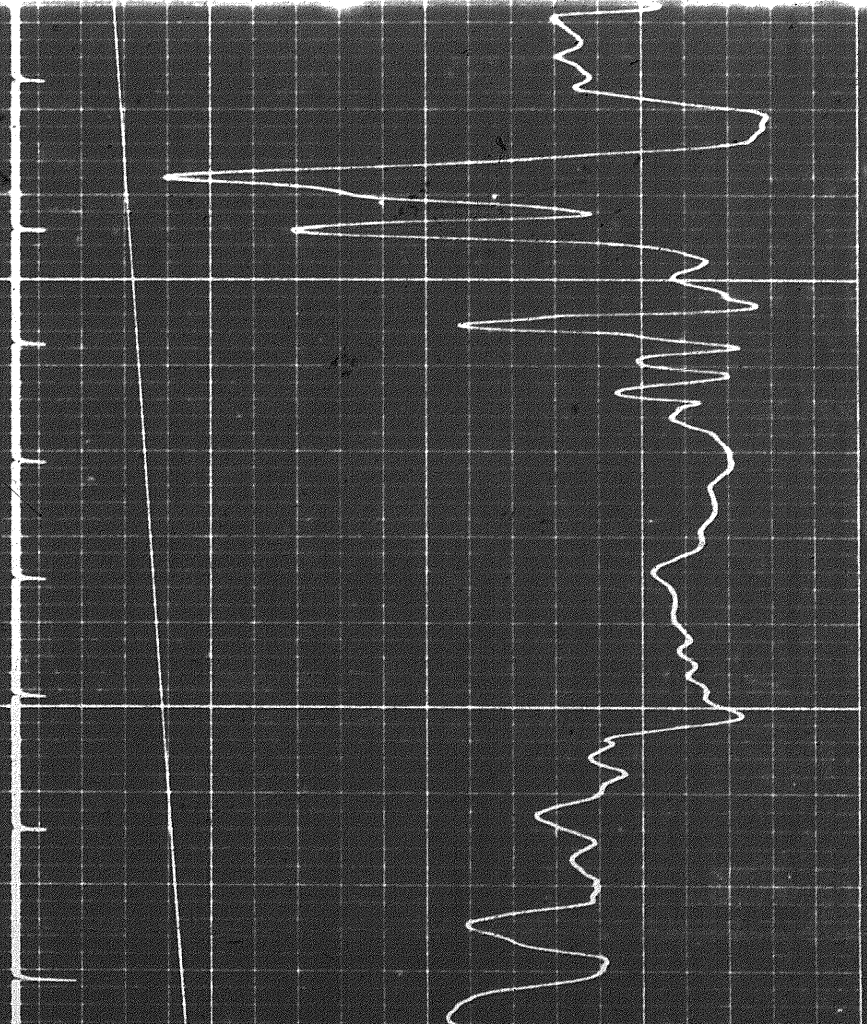


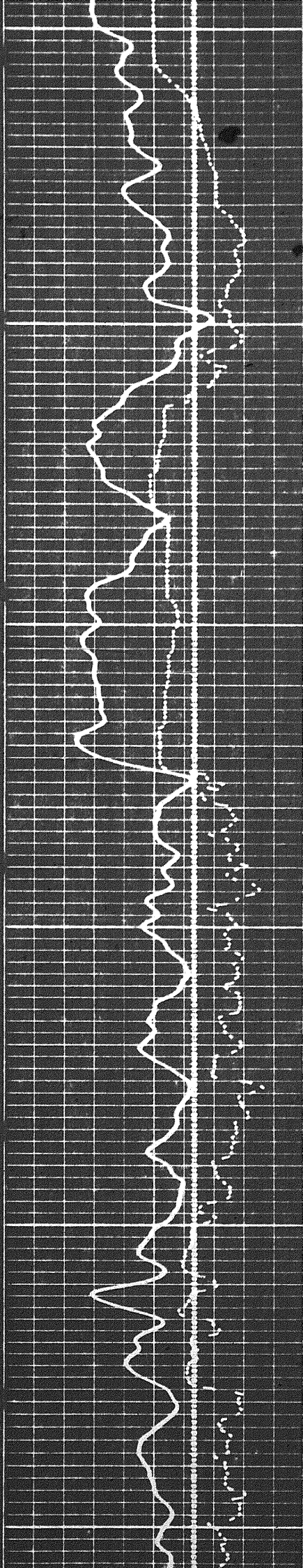


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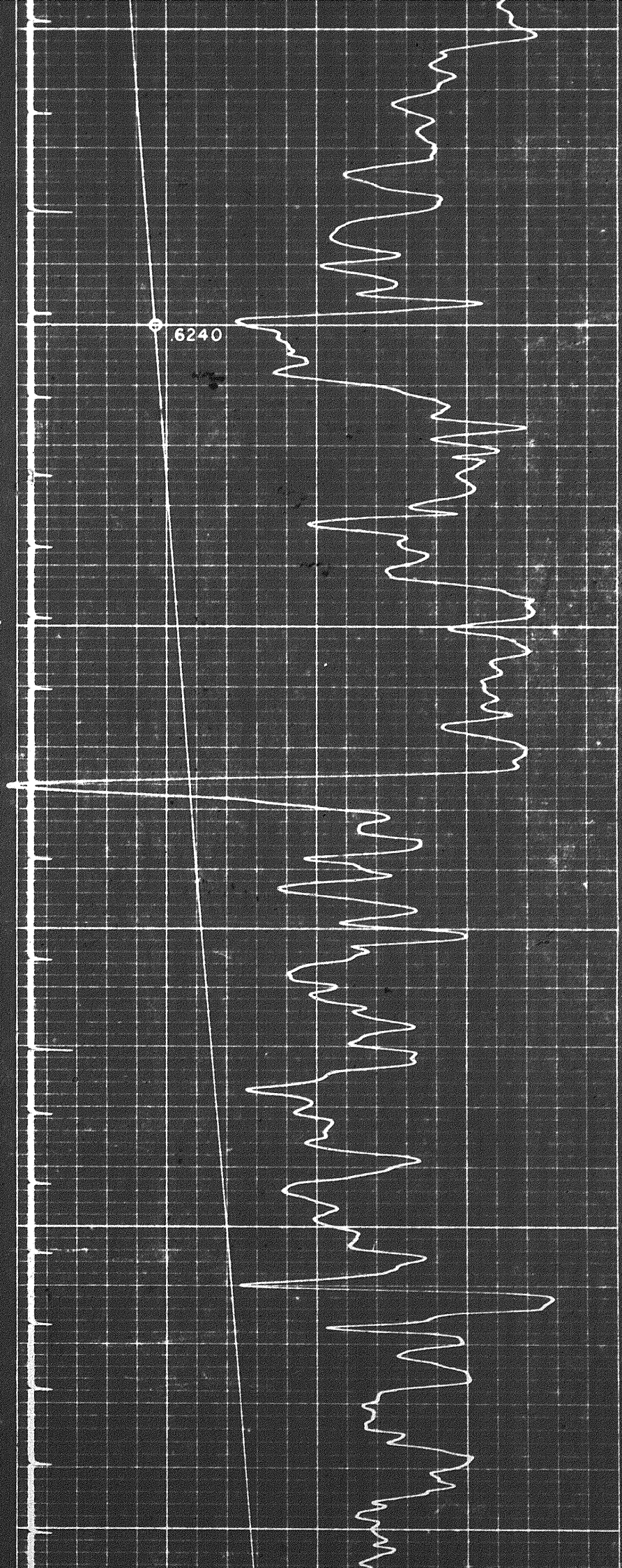


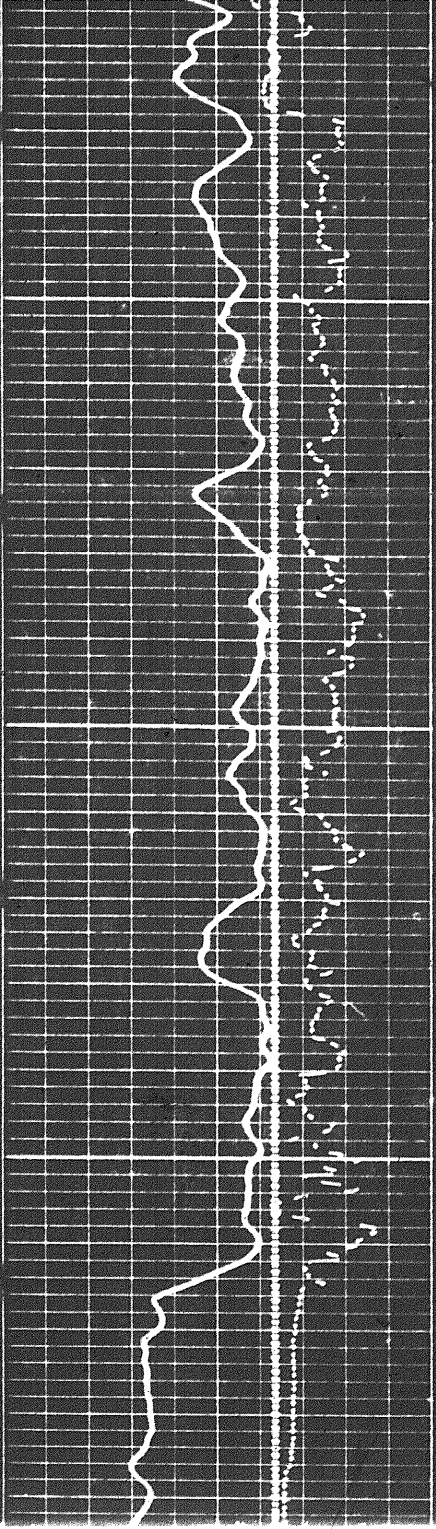


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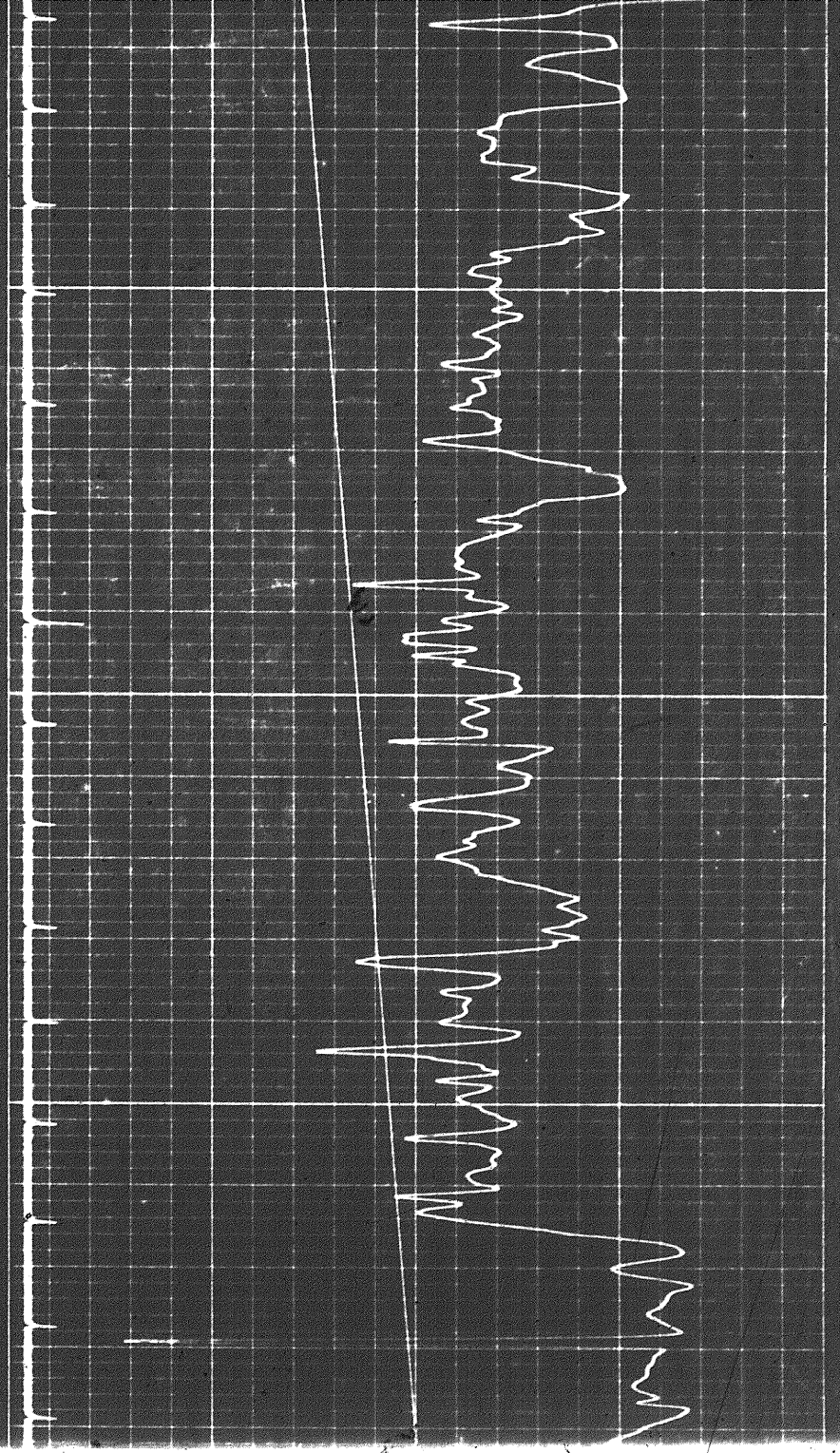
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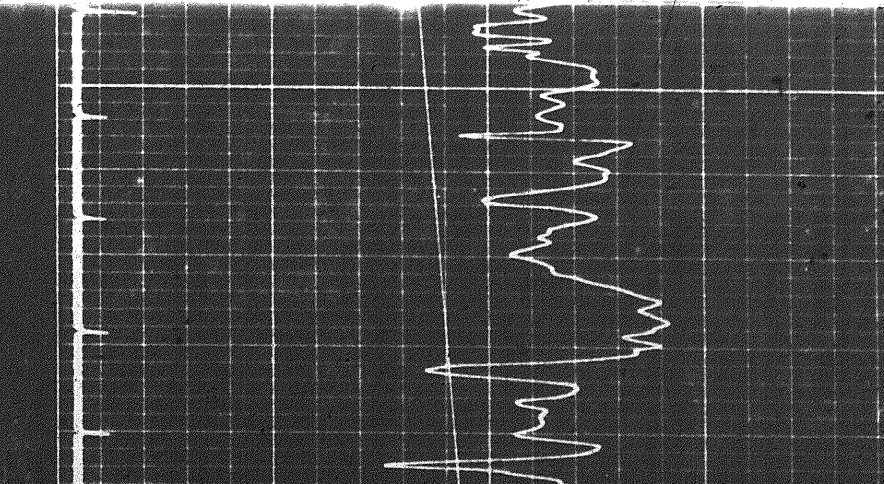
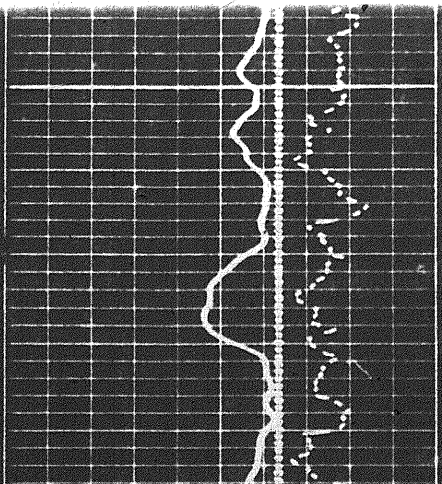


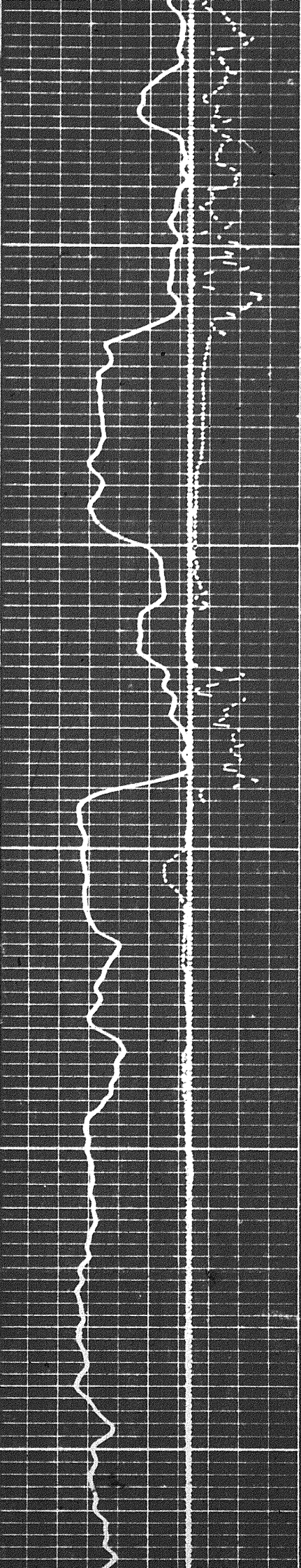


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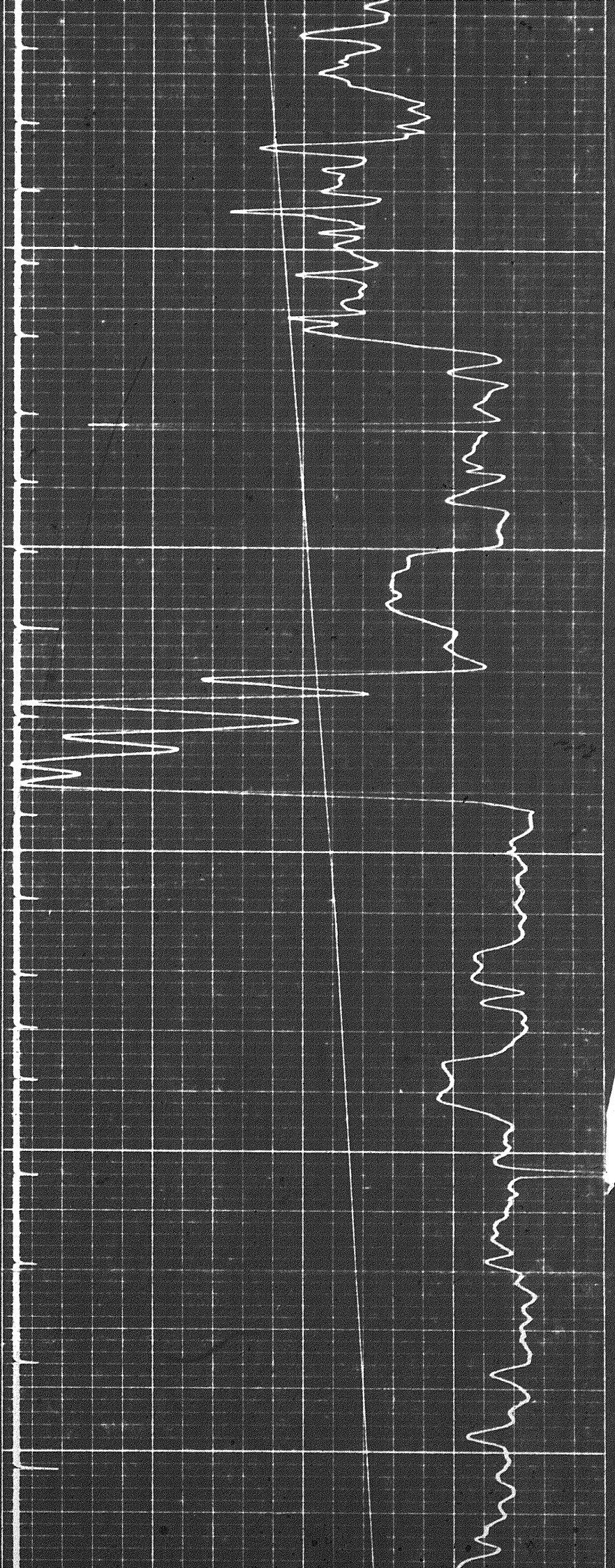


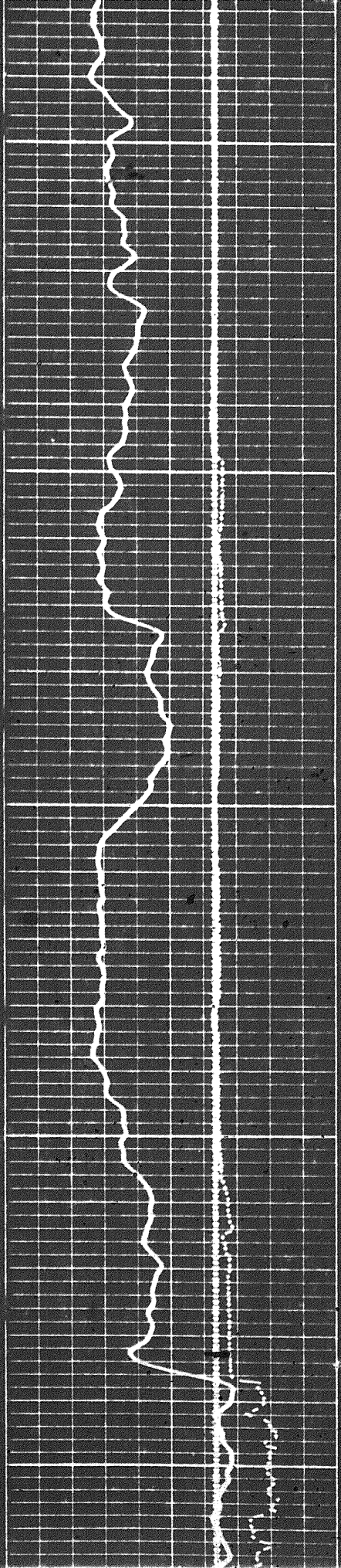


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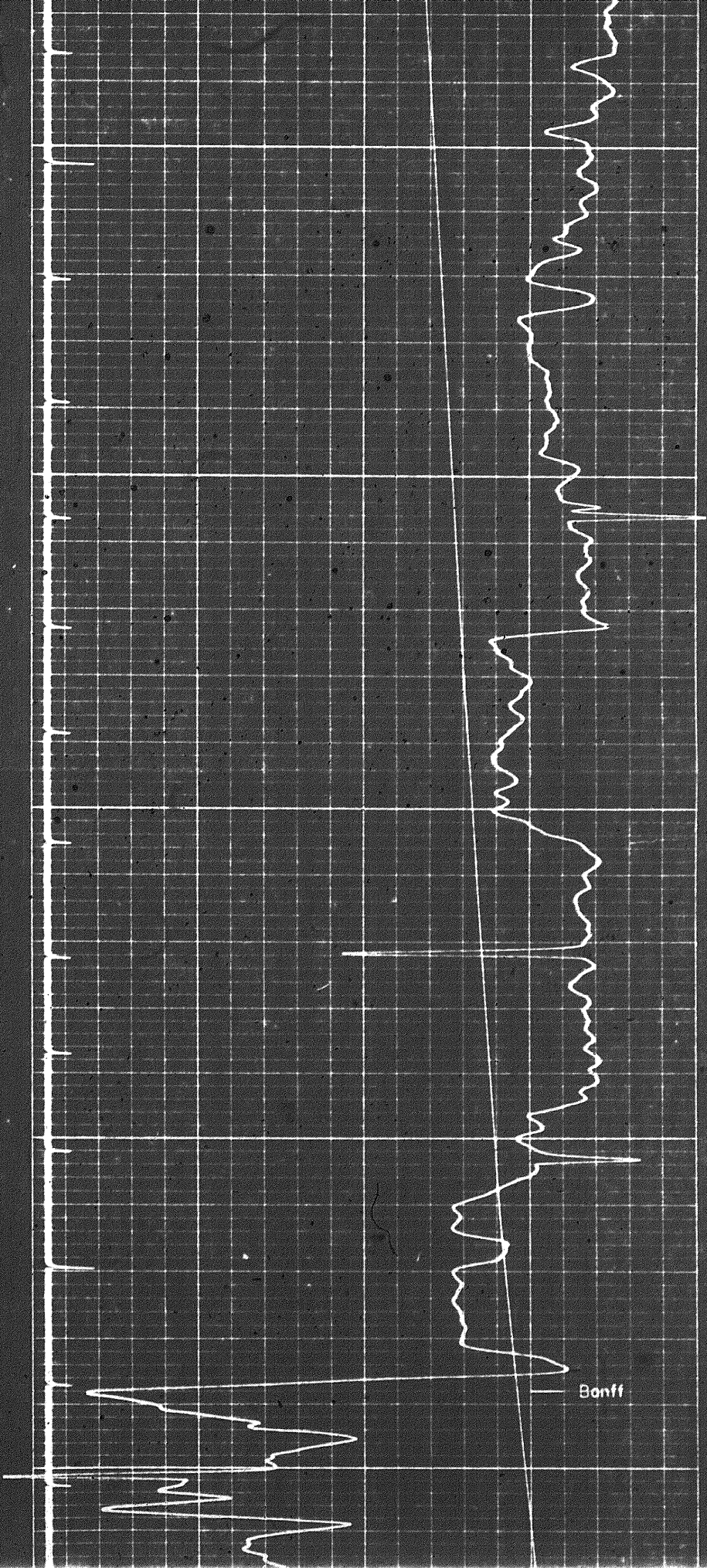




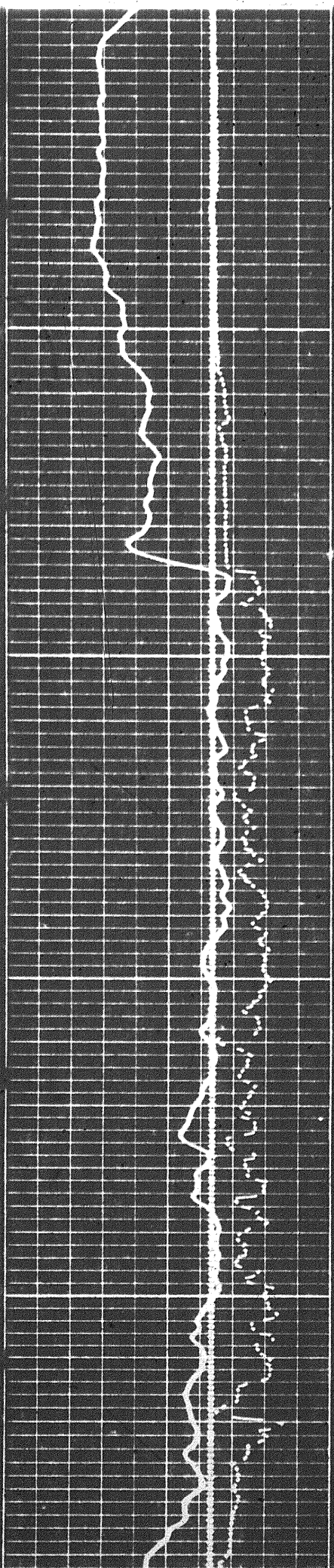
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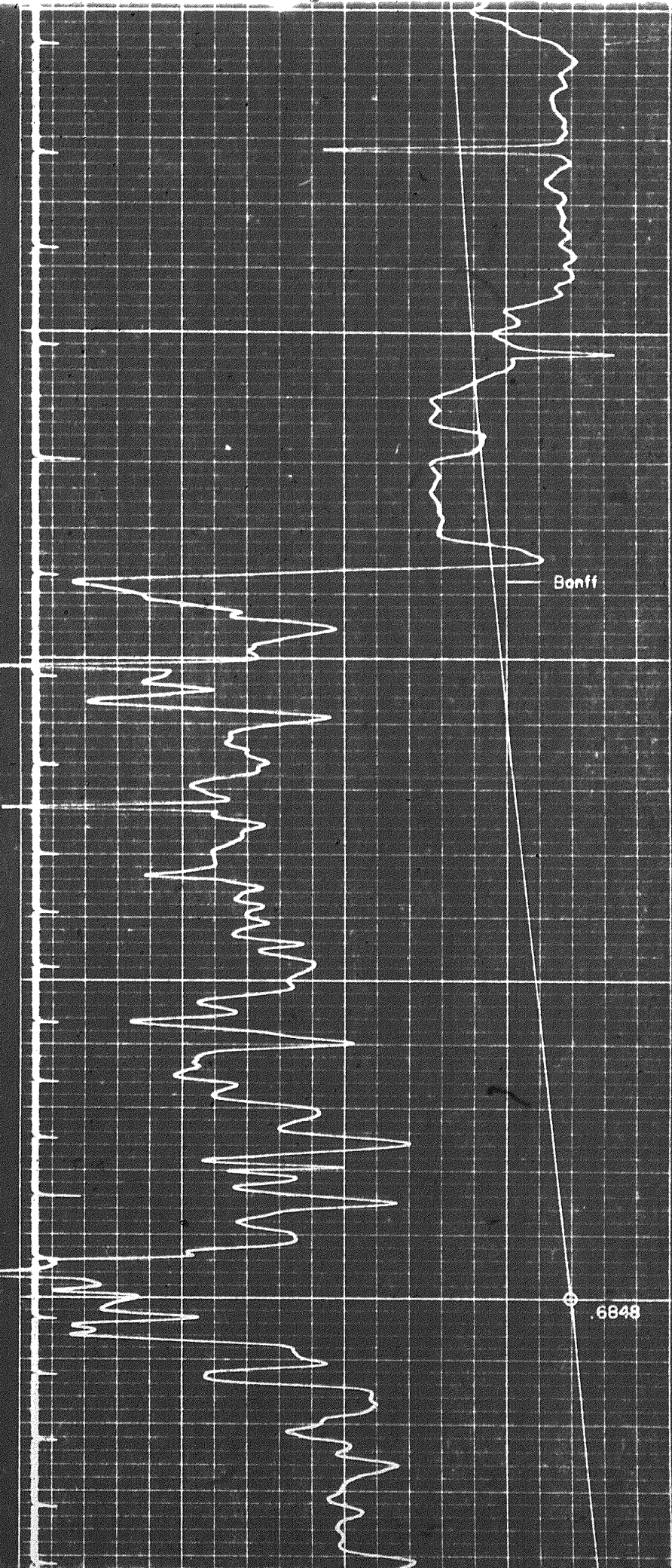
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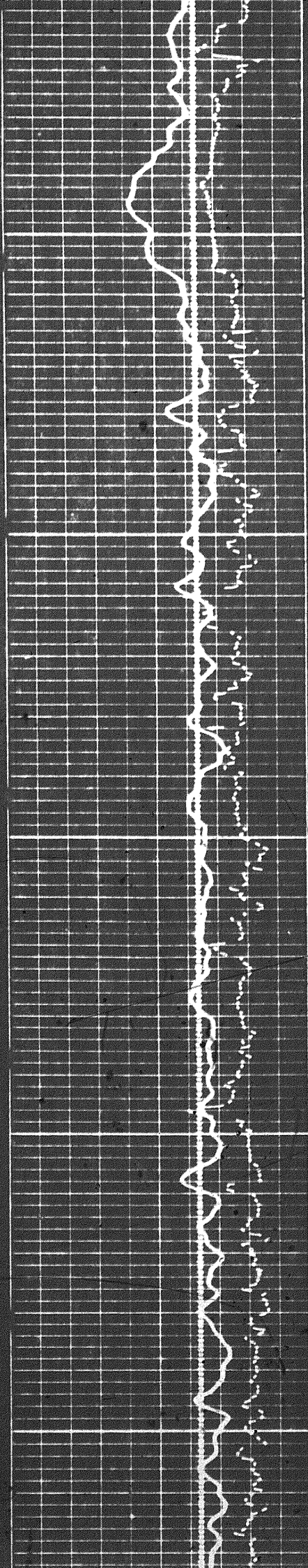
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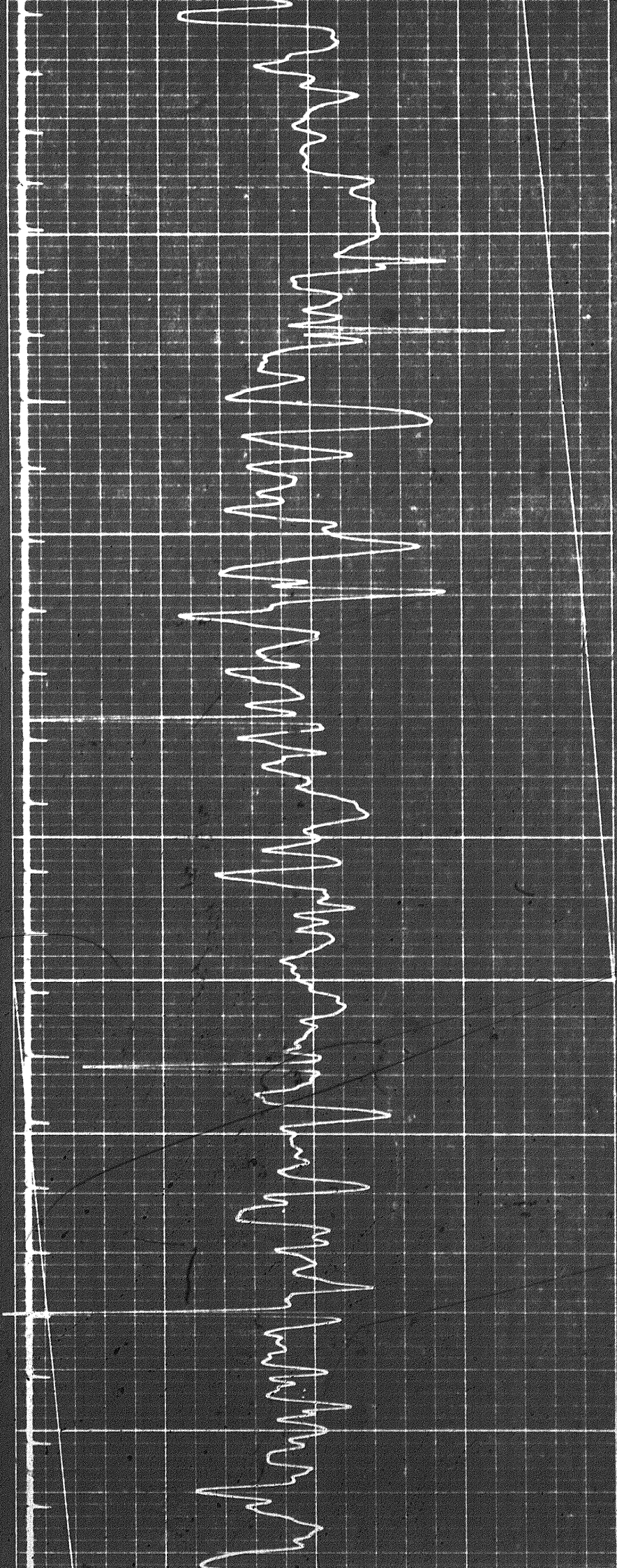
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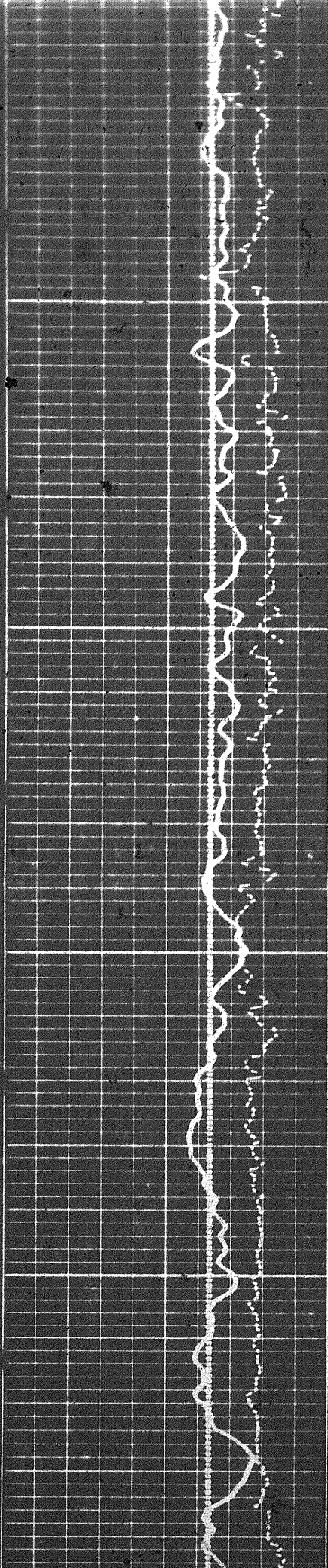
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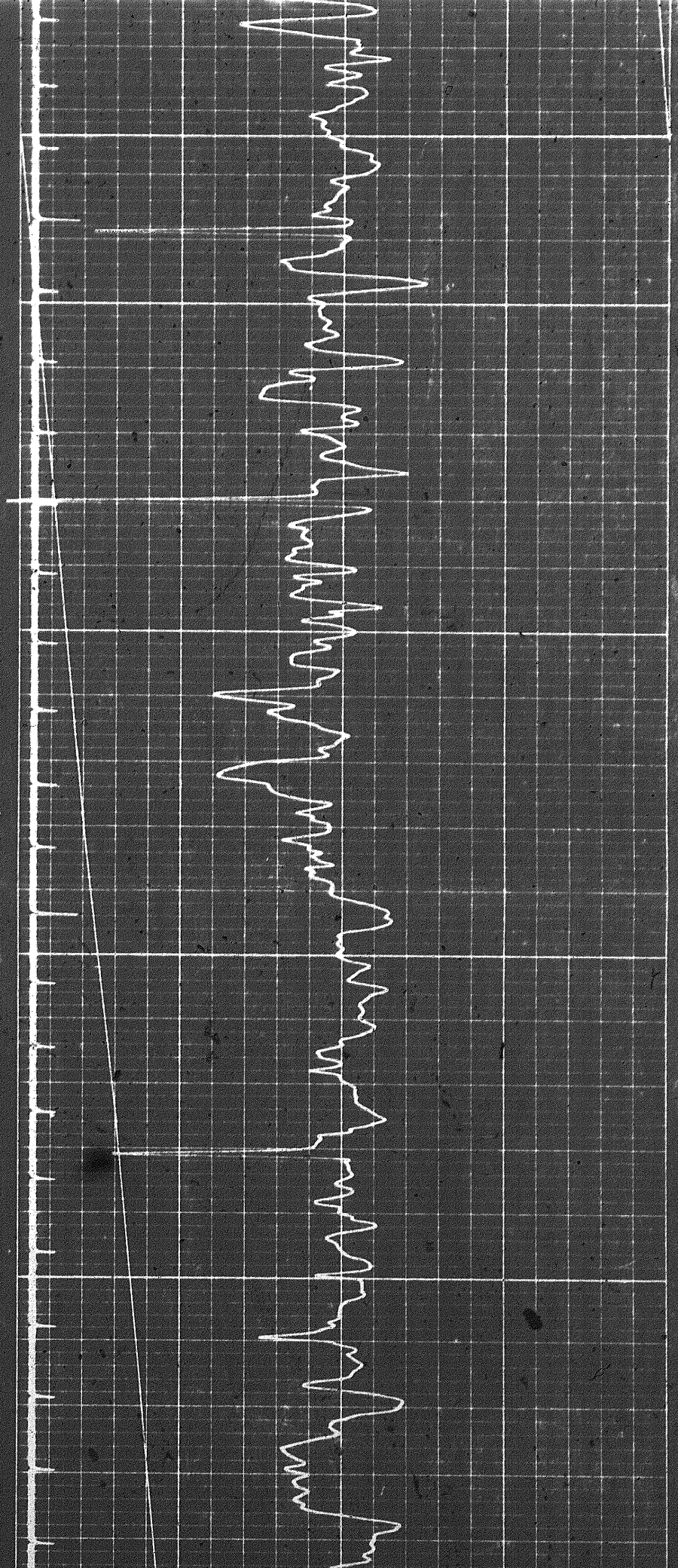
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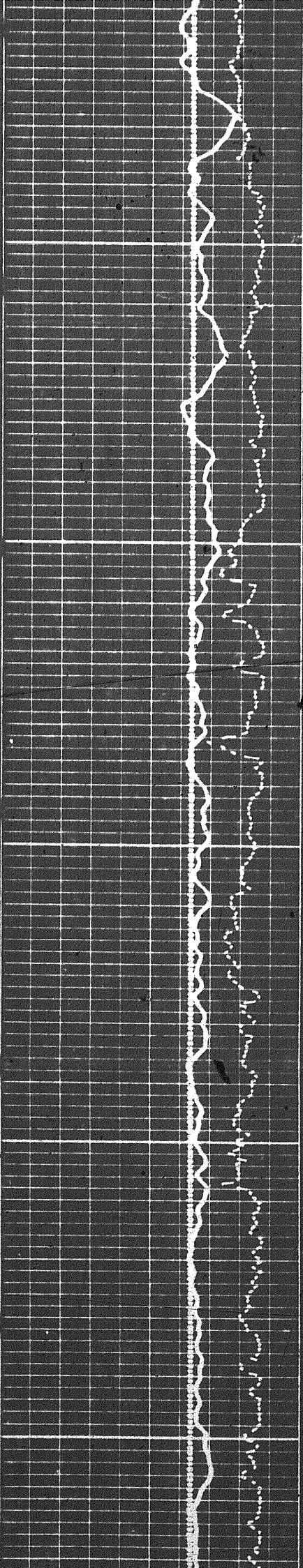




0006

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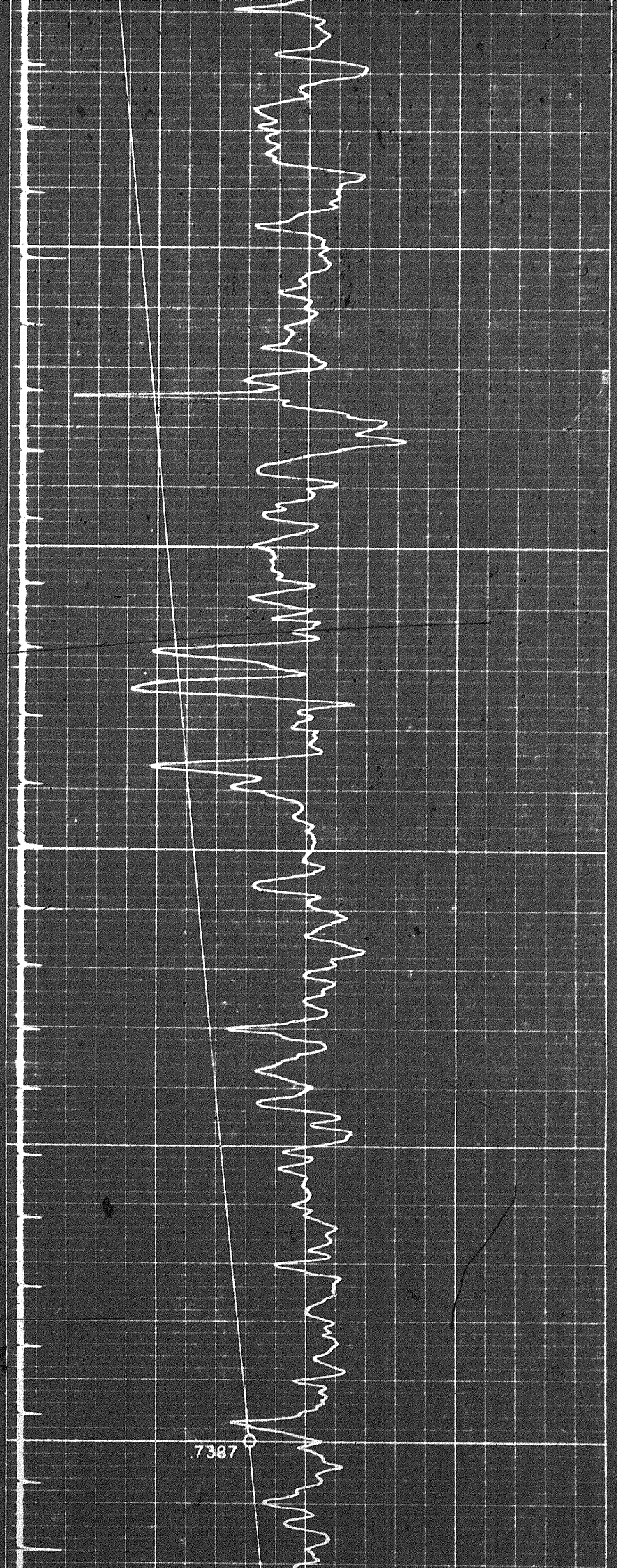




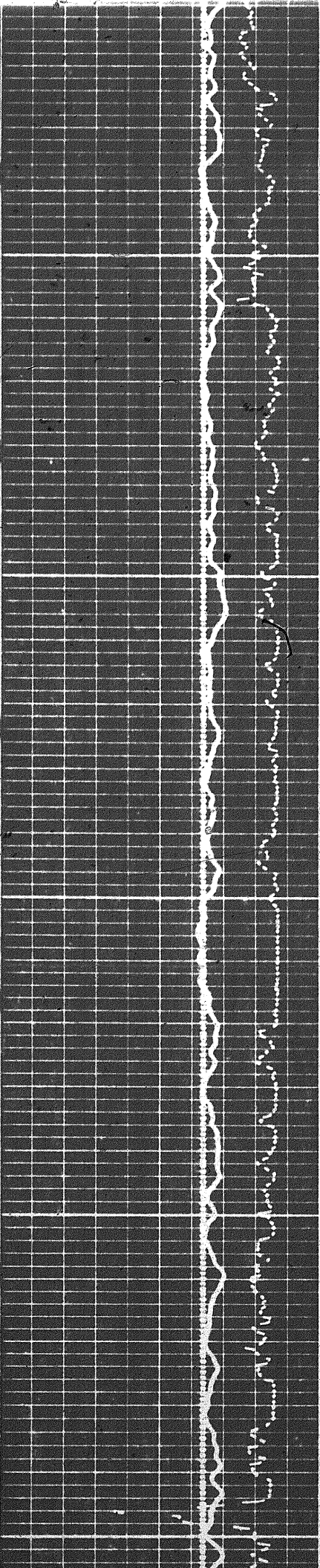
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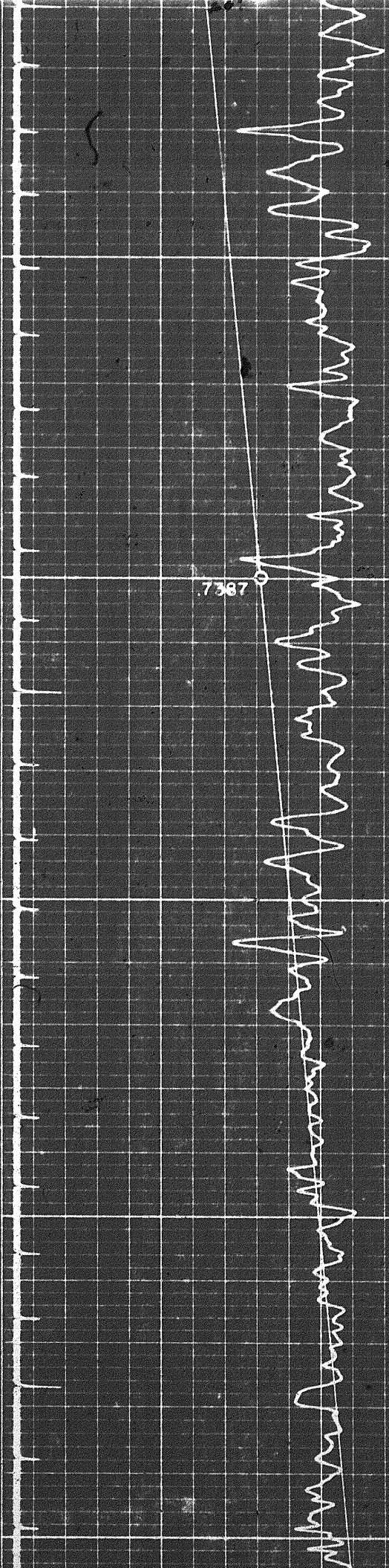


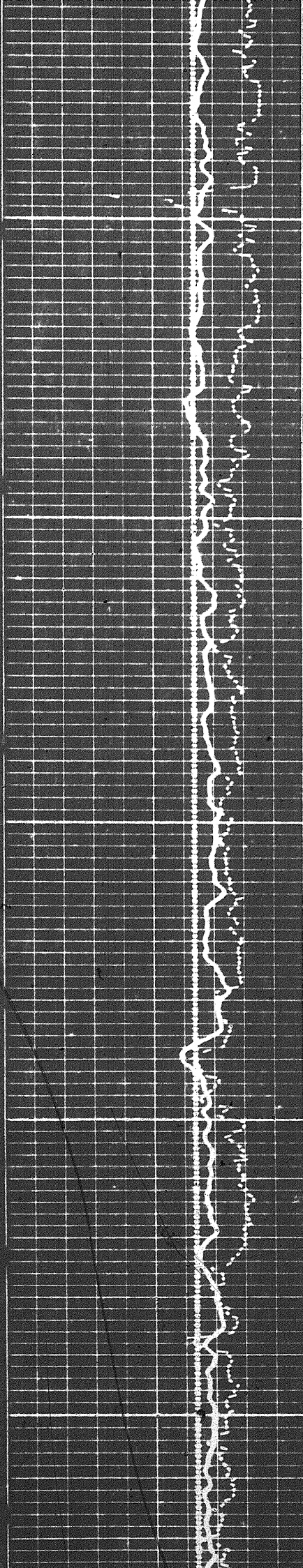
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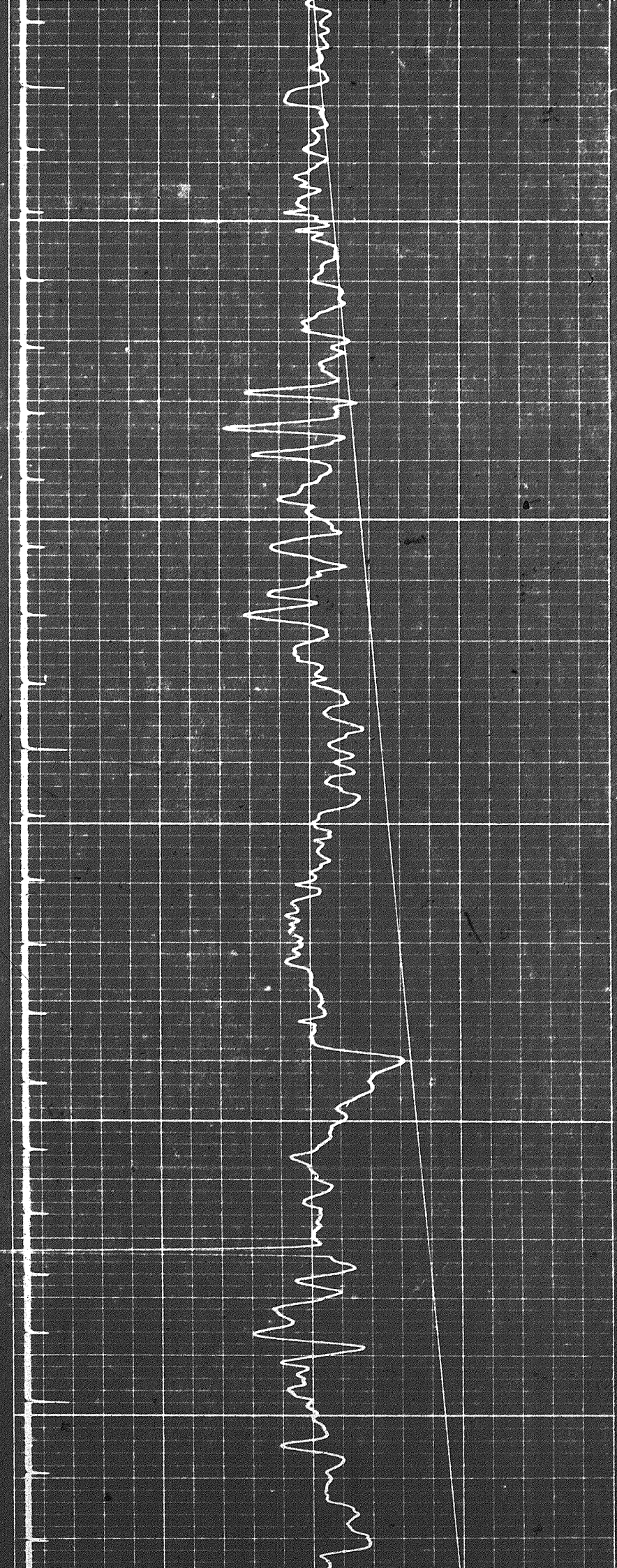
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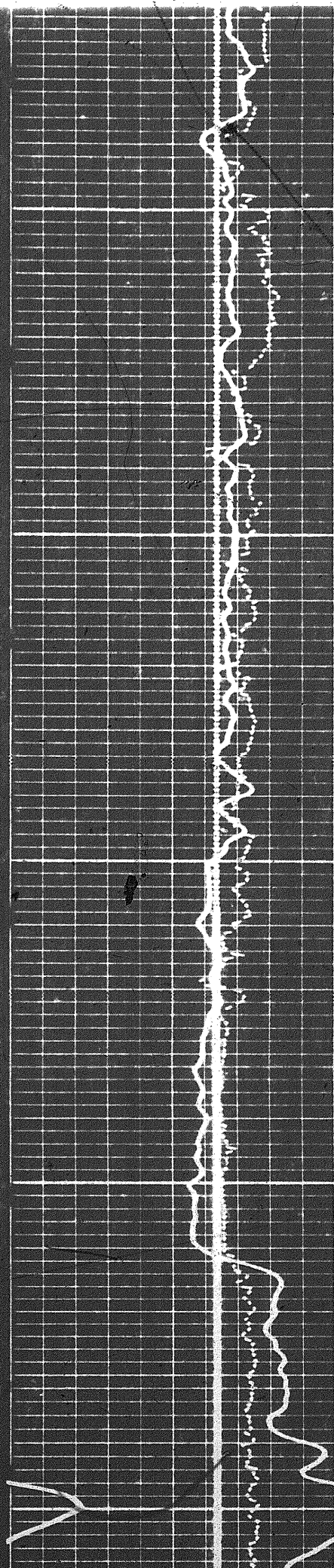




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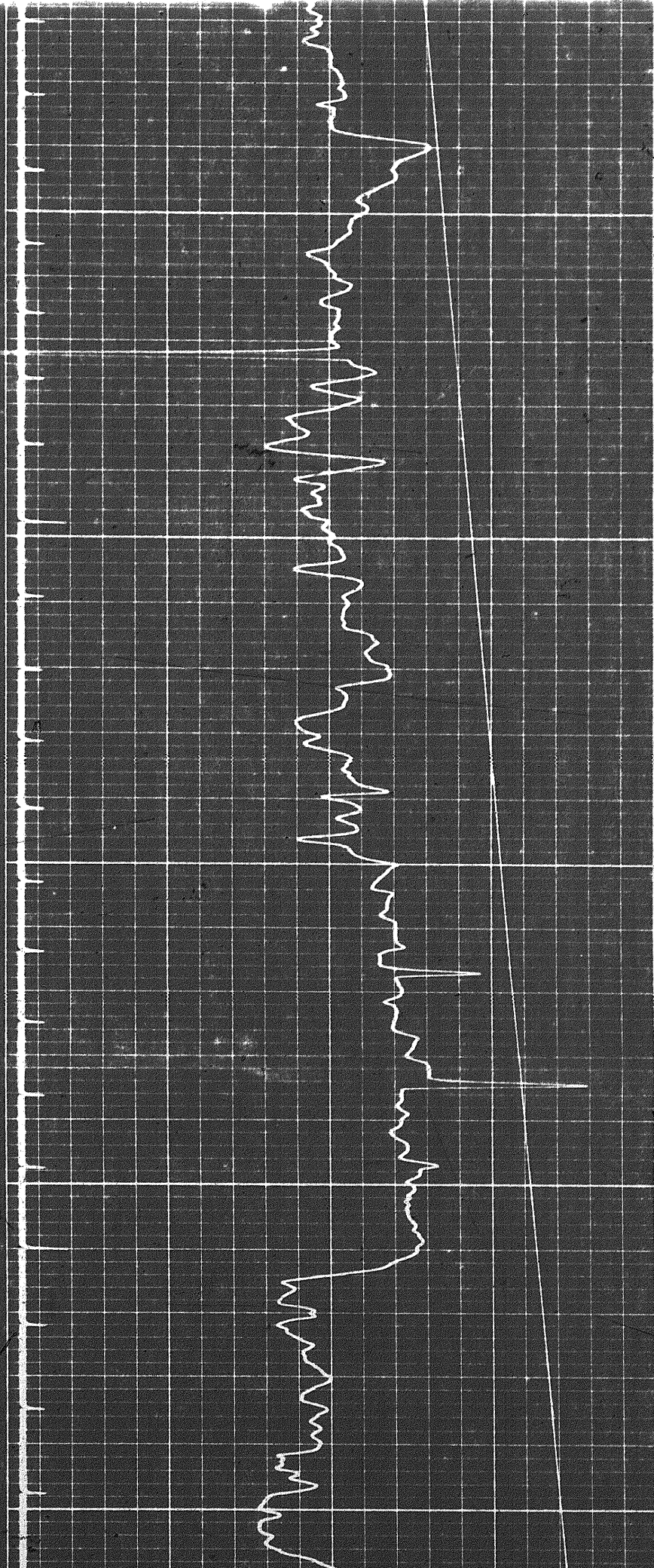


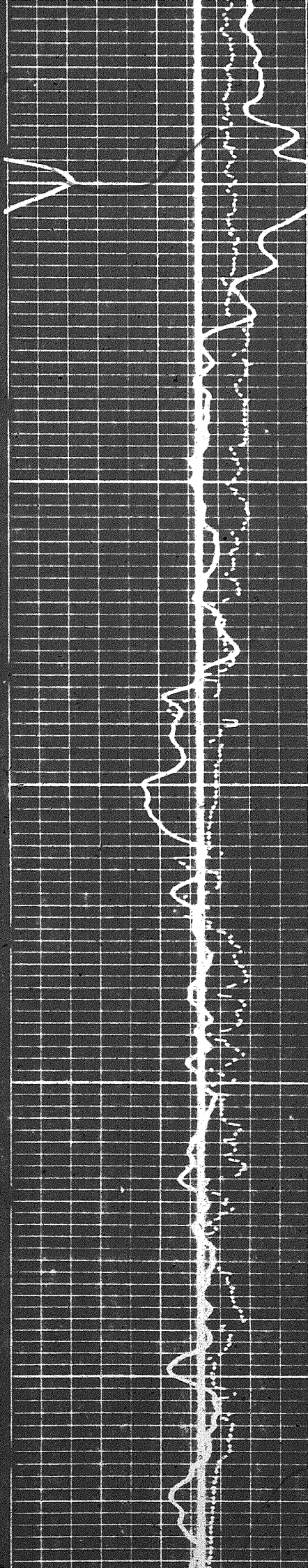


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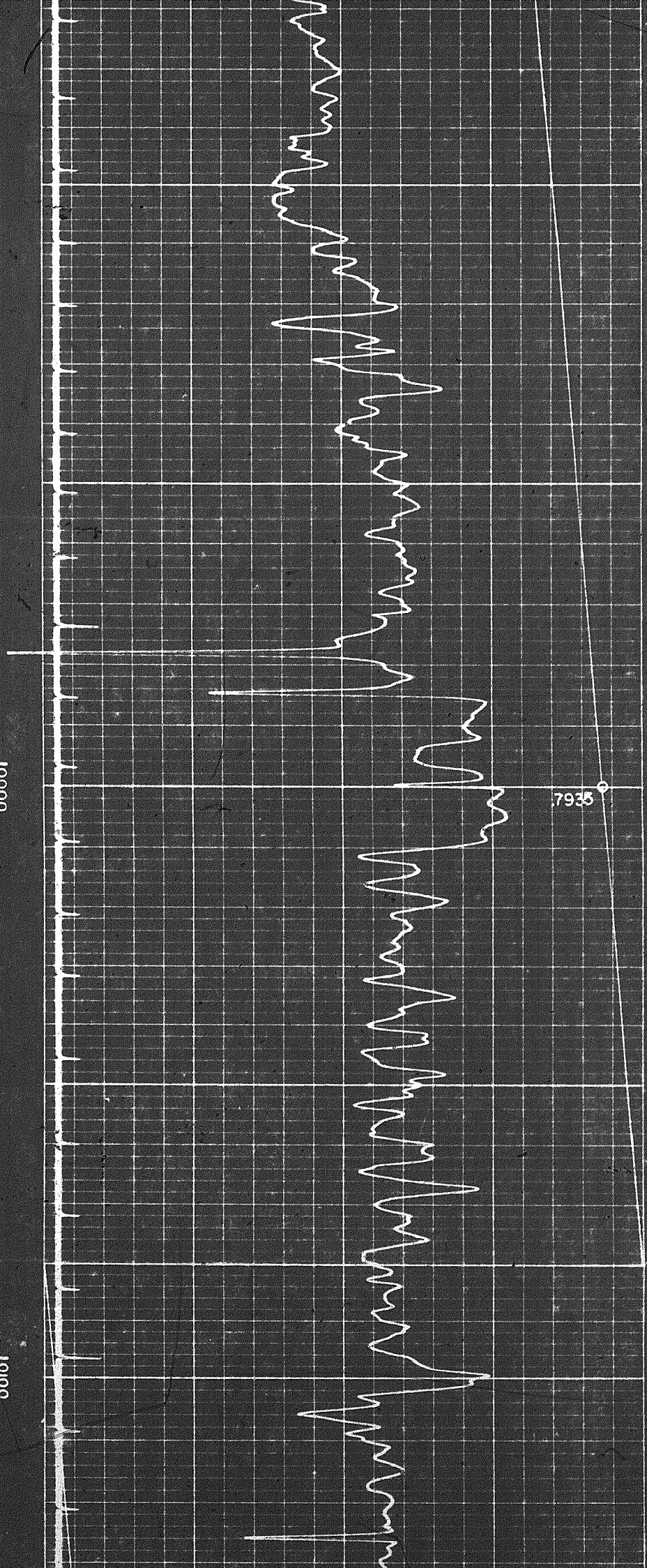


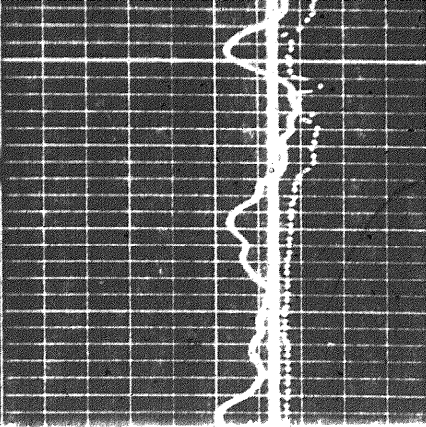


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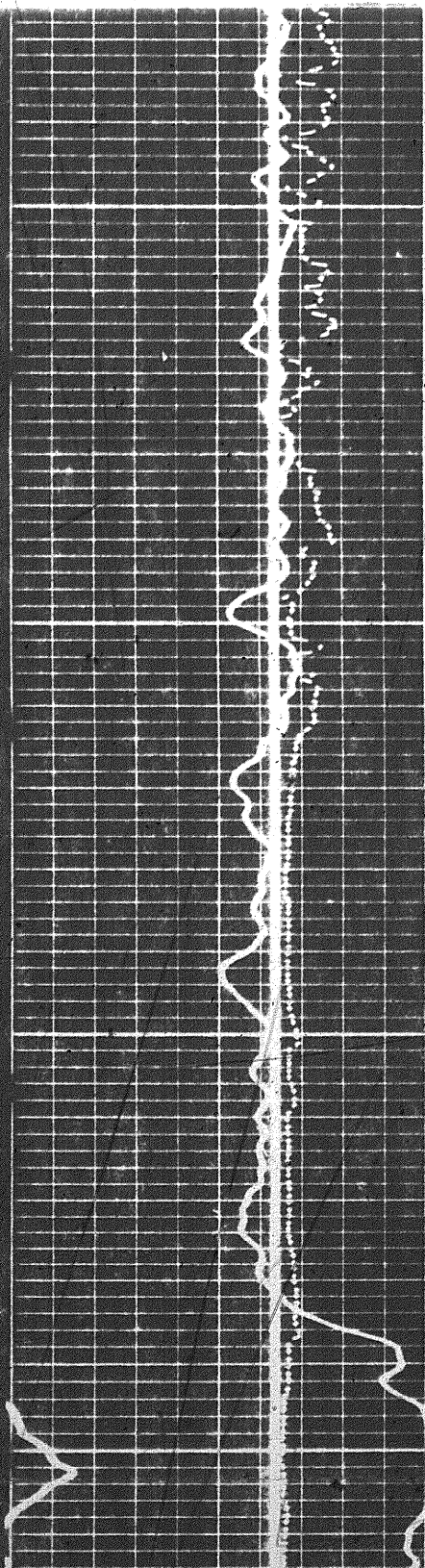
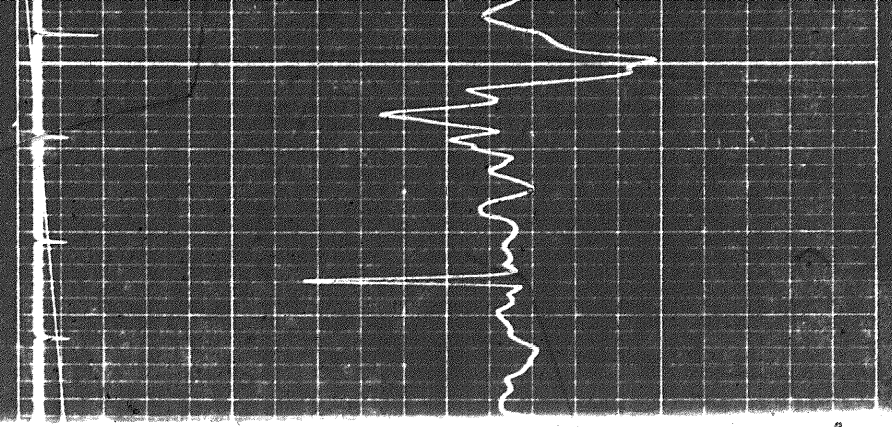
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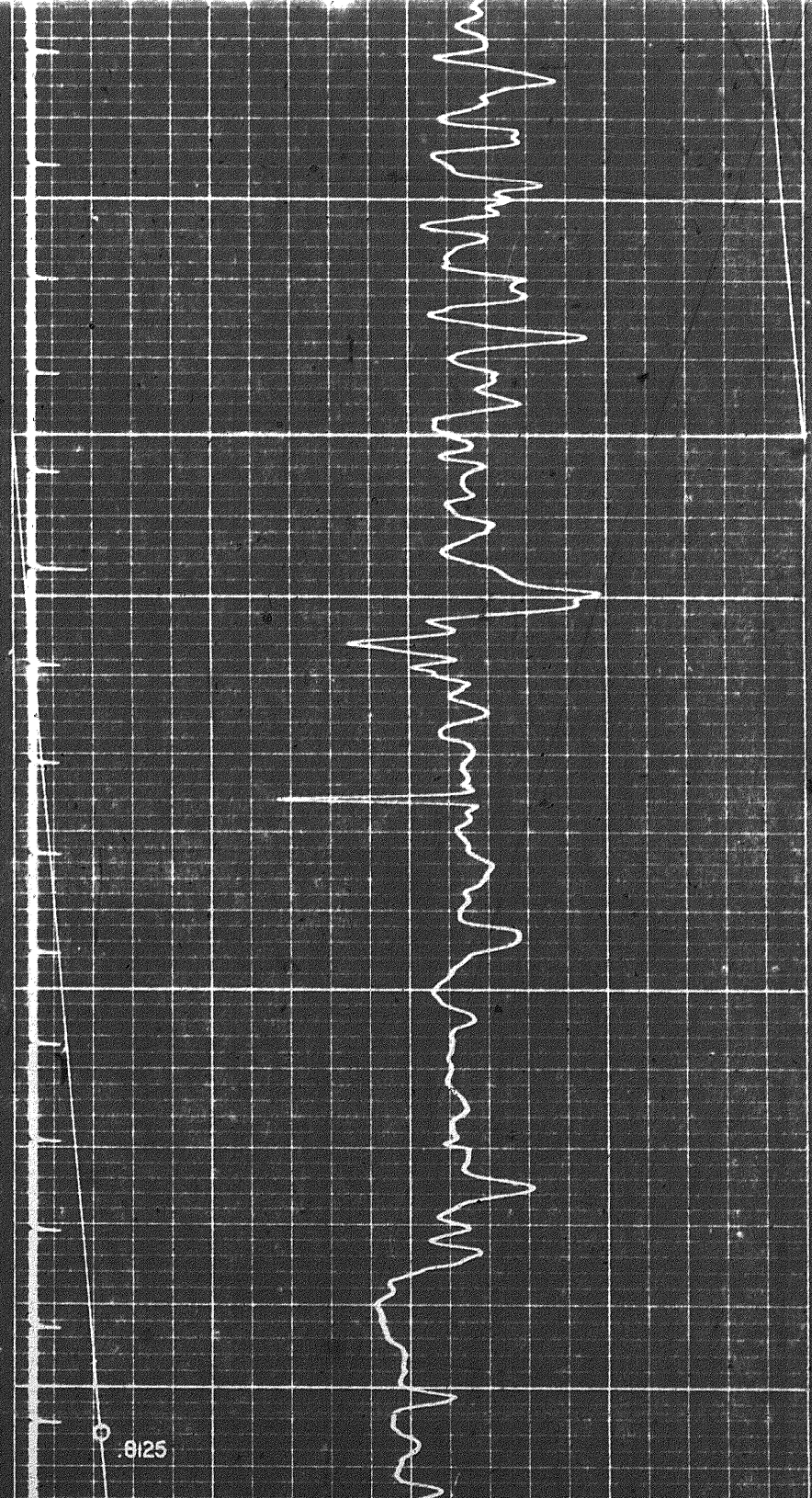


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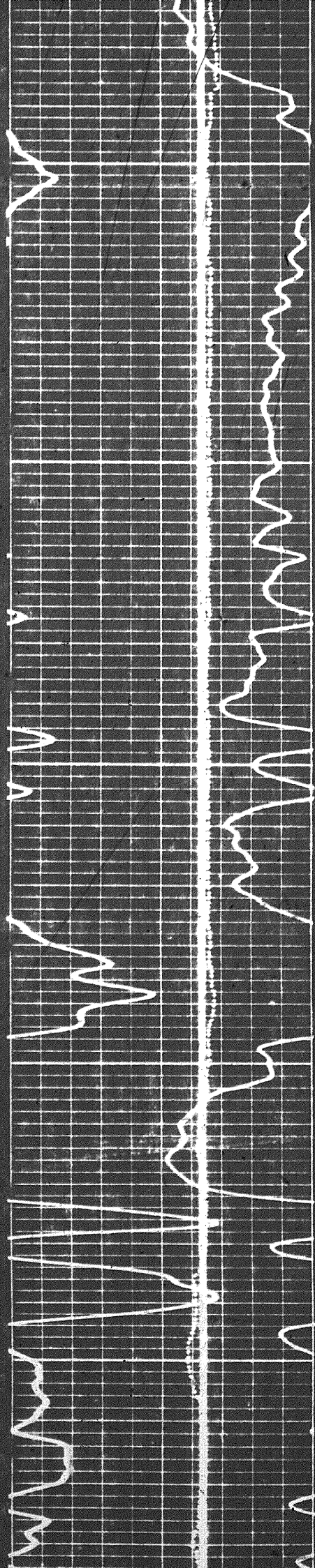


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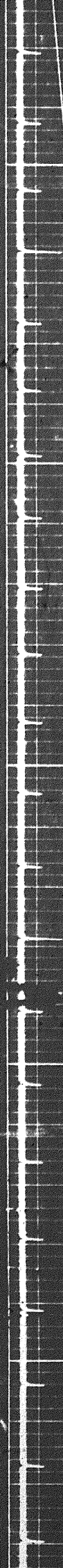
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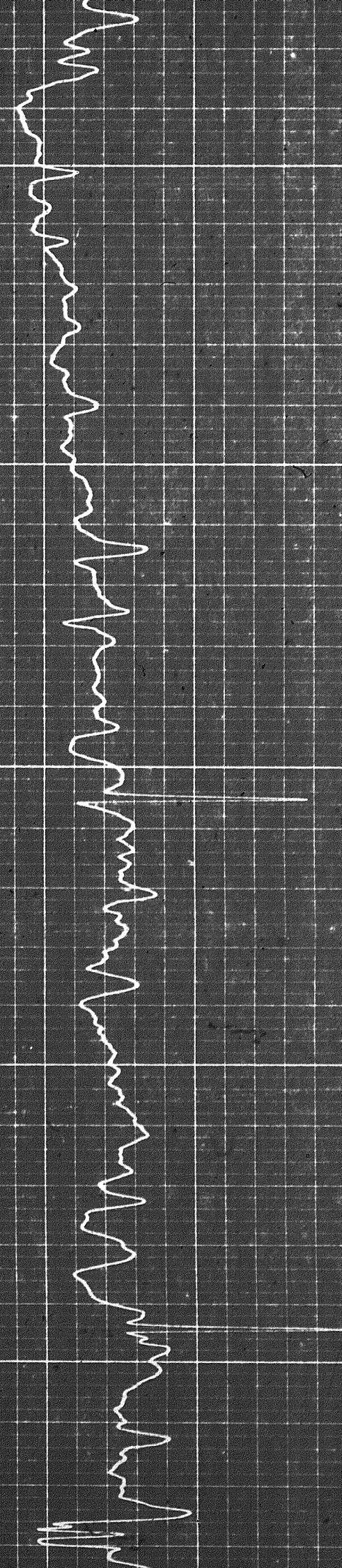
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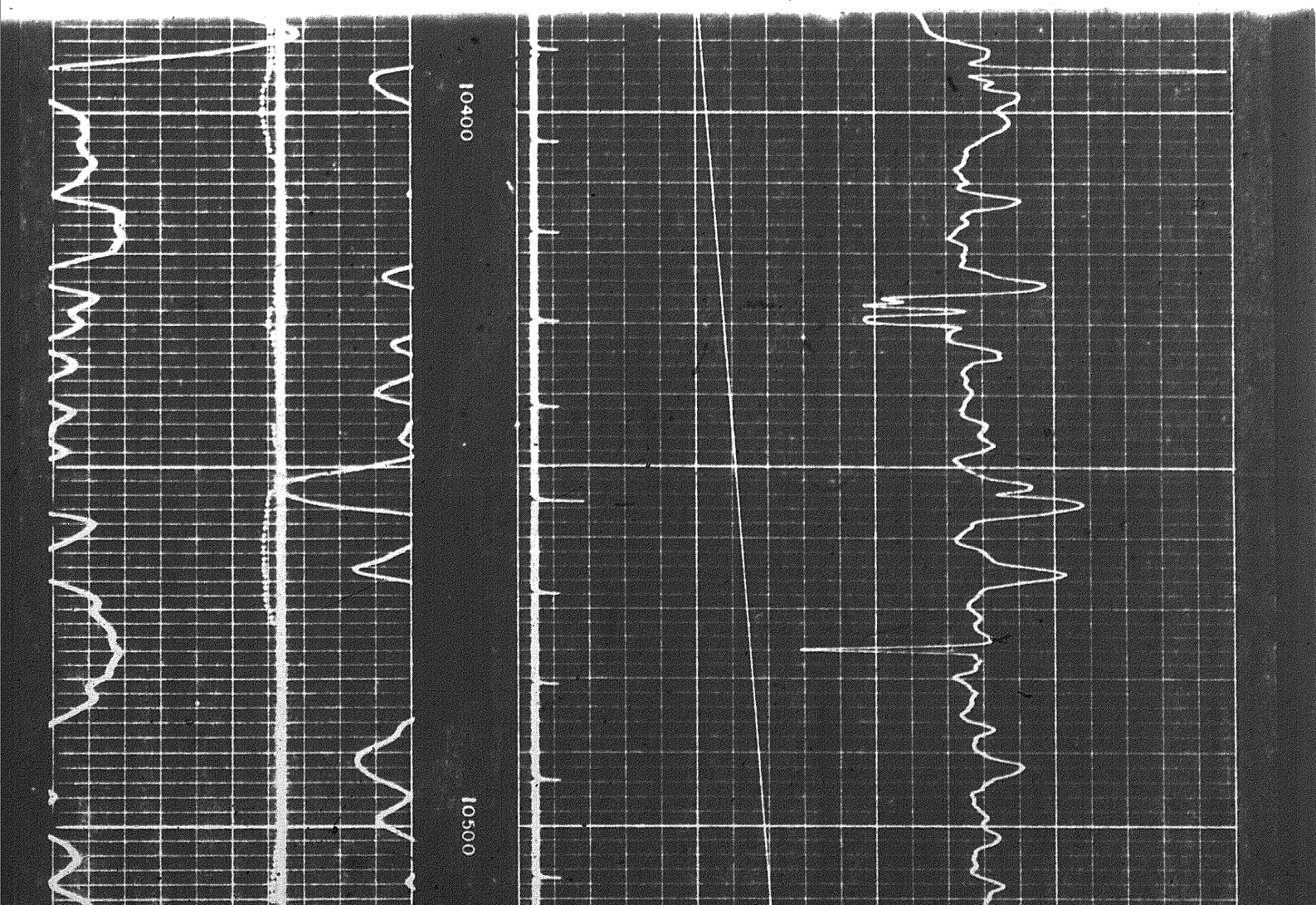
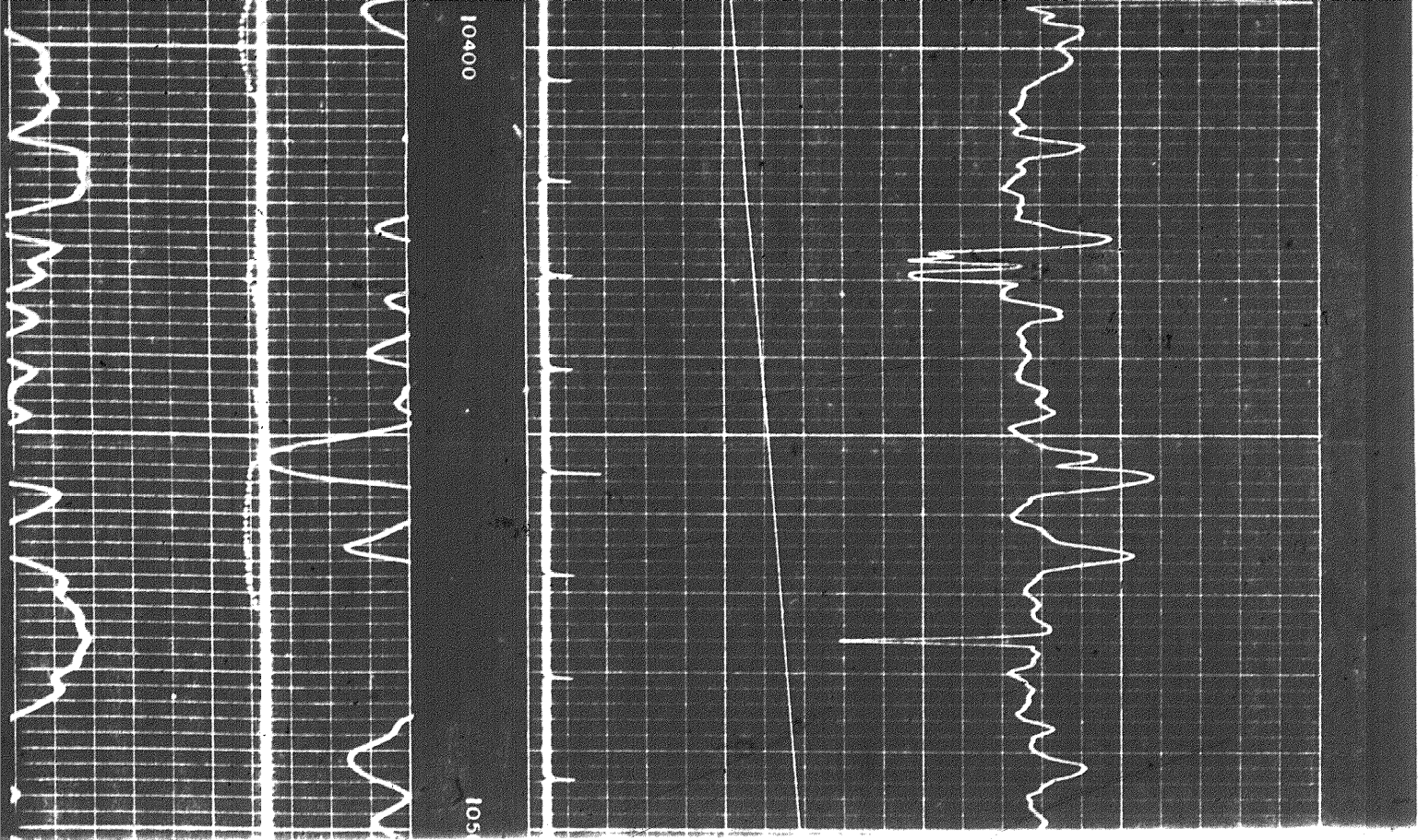
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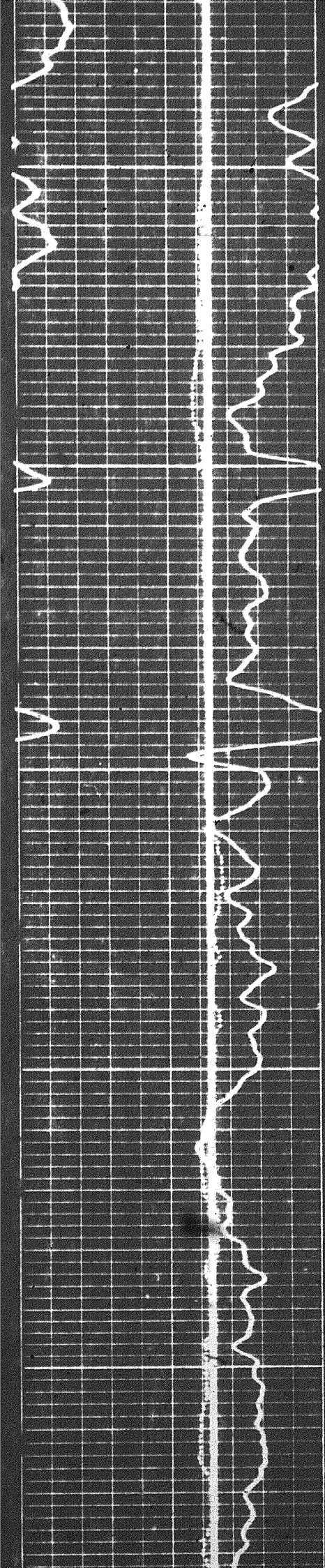
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.8125



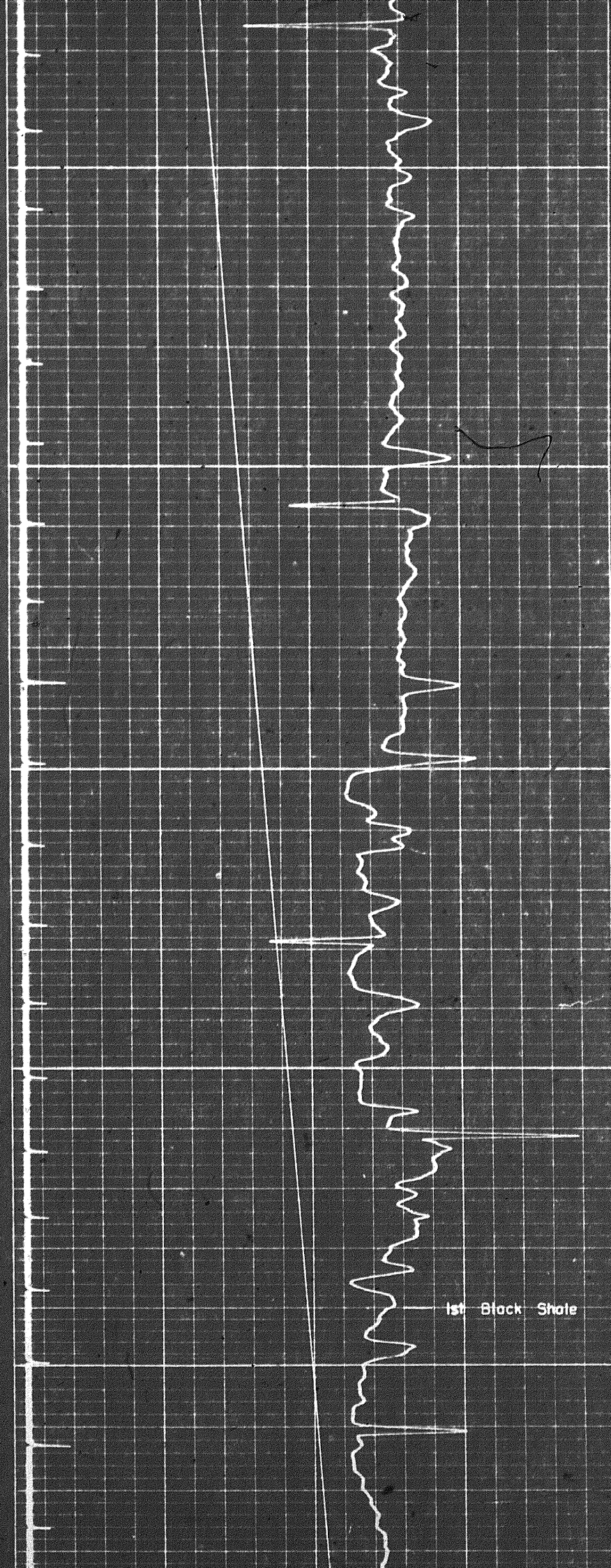




10500

10600

10700



1st Block Shale

CASING SHOE

10800

10900

11000

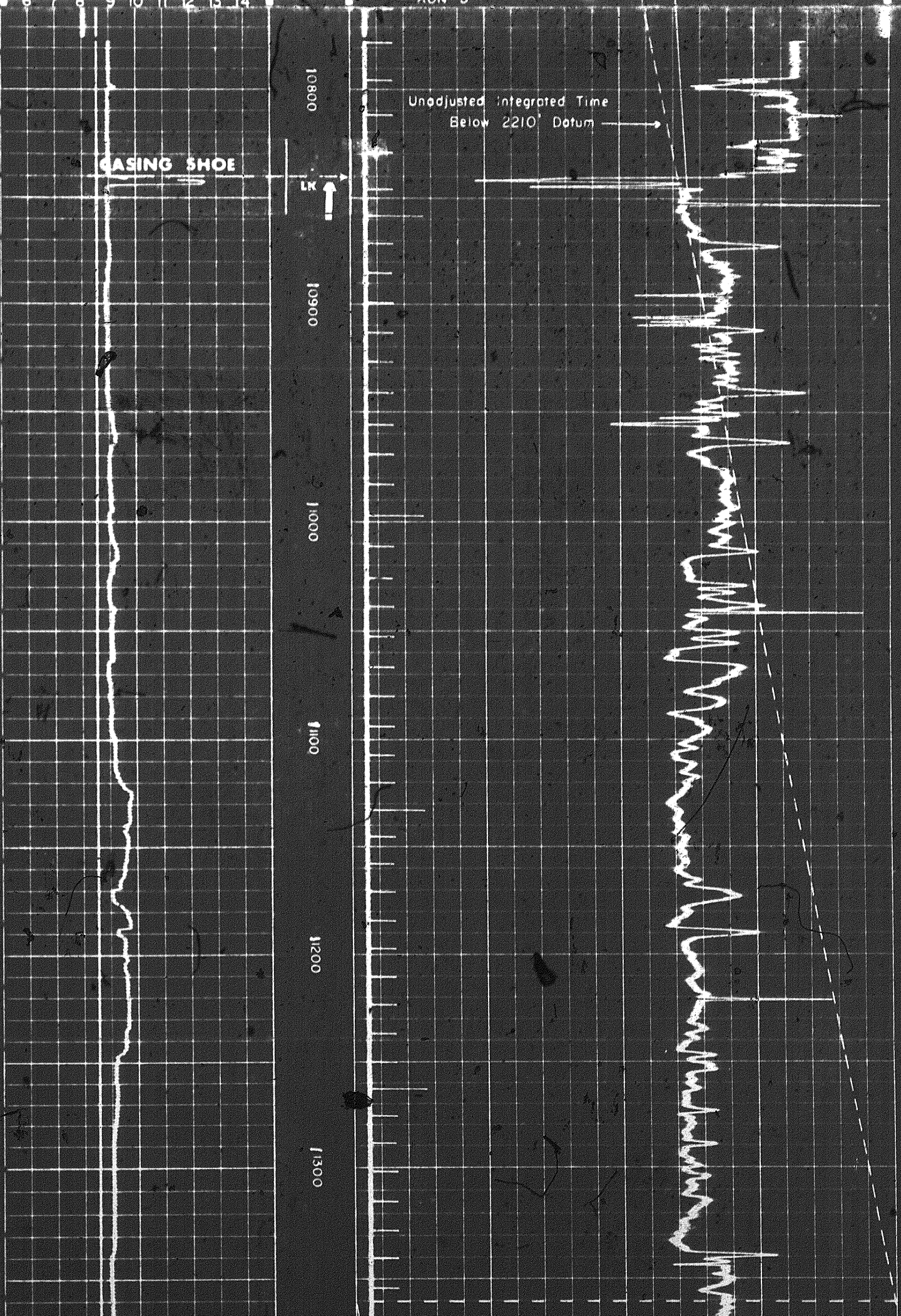
11100

11200

11300

Unadjusted Integrated Time
Below 2210' Datum

LK



CASING SHOE

10800

10900

11000

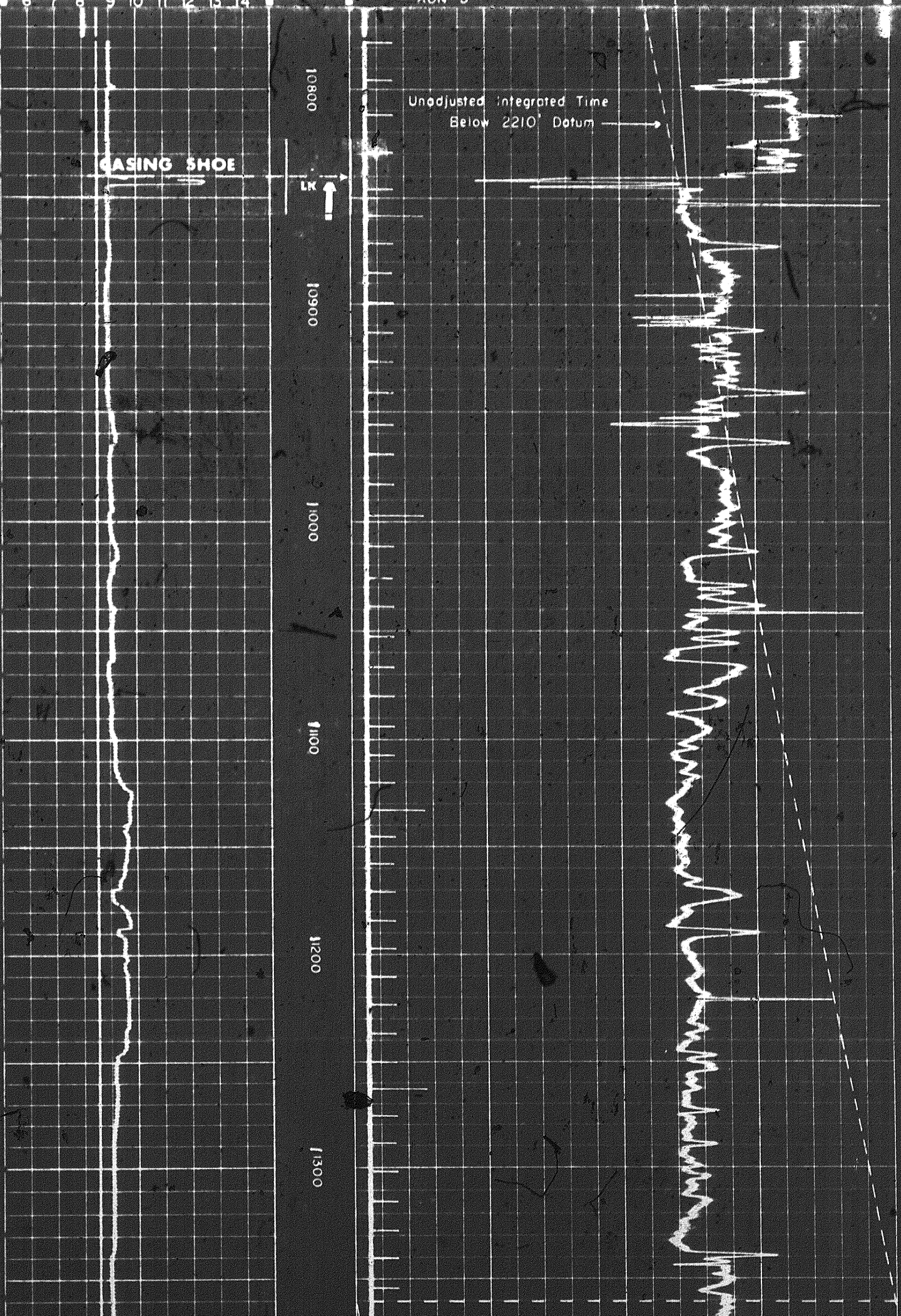
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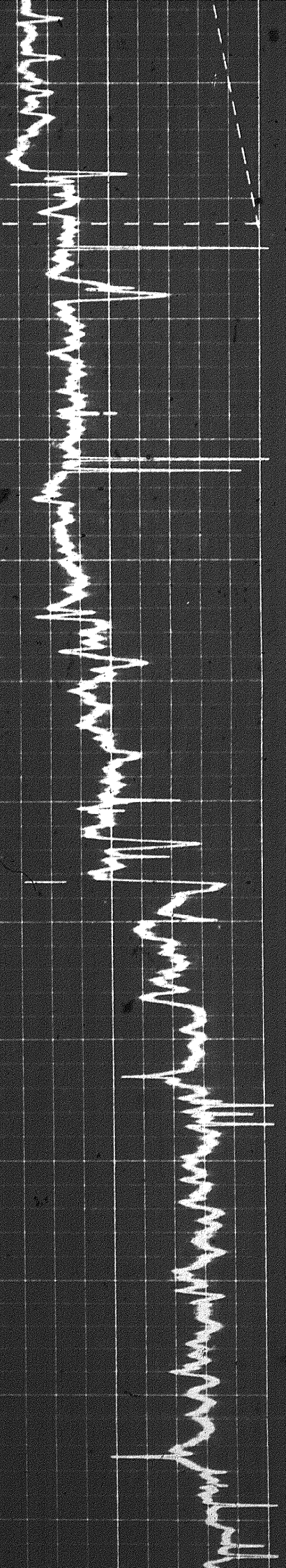
11200

11300

Unadjusted Integrated Time
Below 2210' Datum

LK





Nahanni

1300

1400

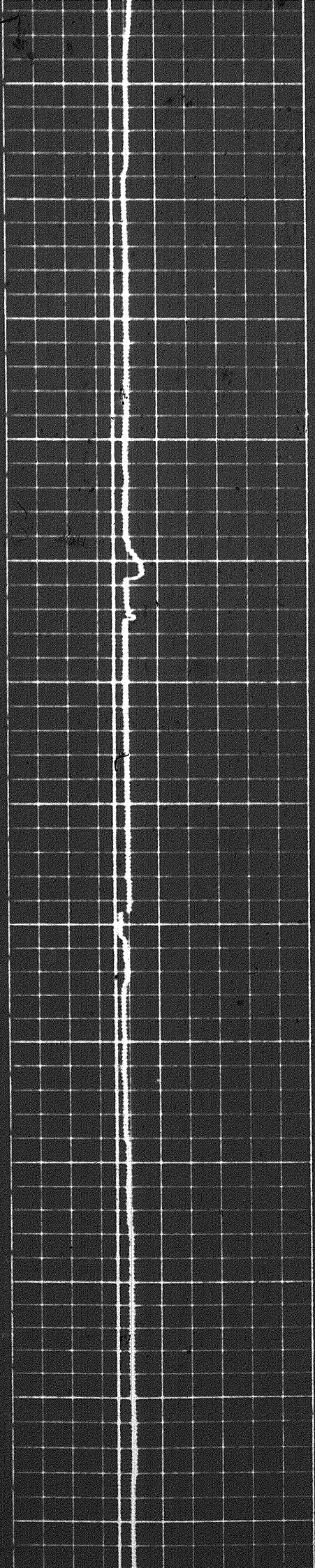
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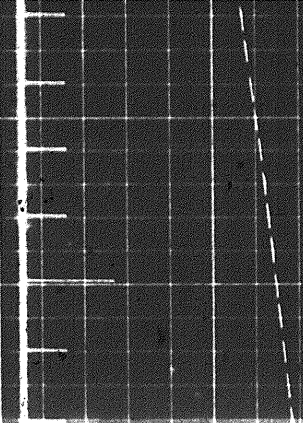
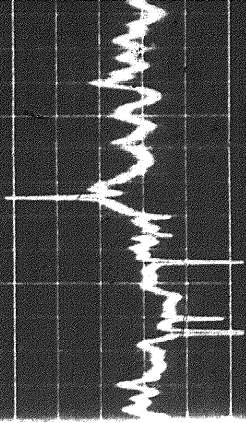
1600

1700

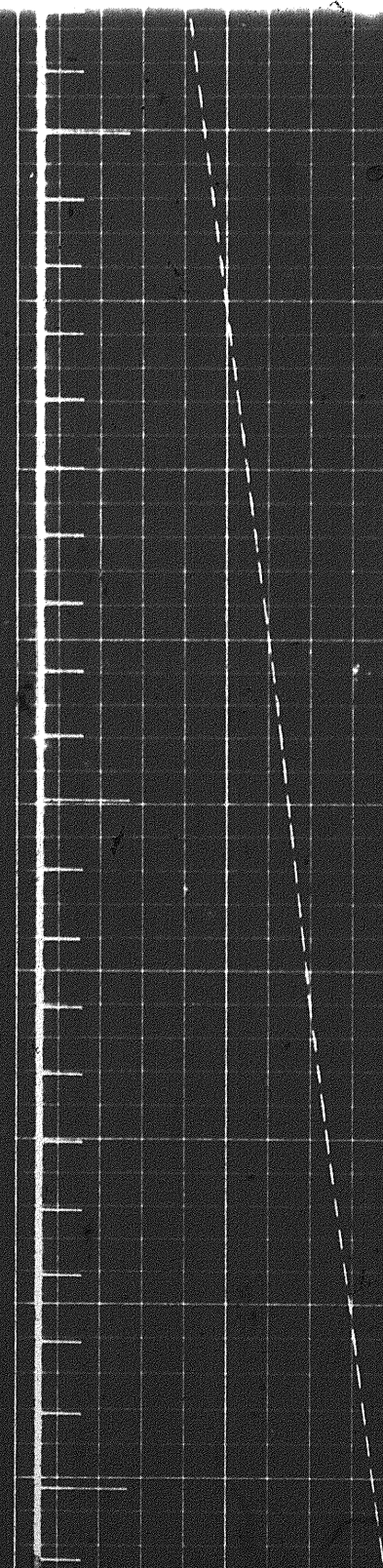
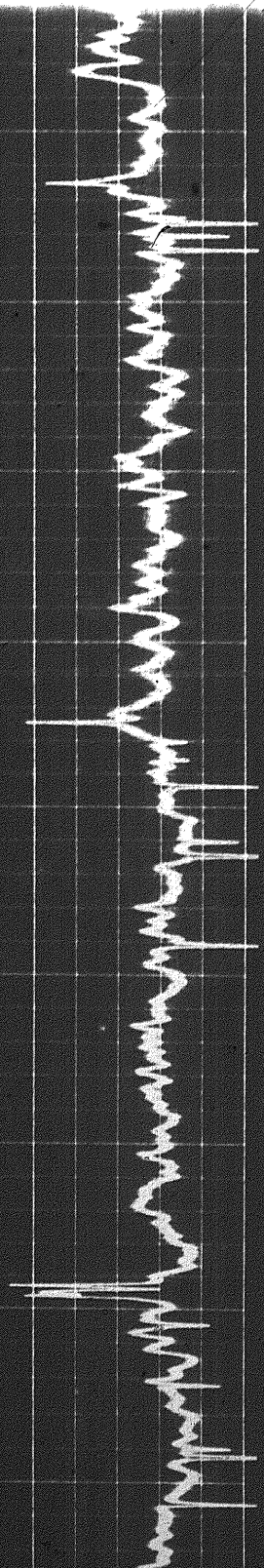
1800

1900





1900



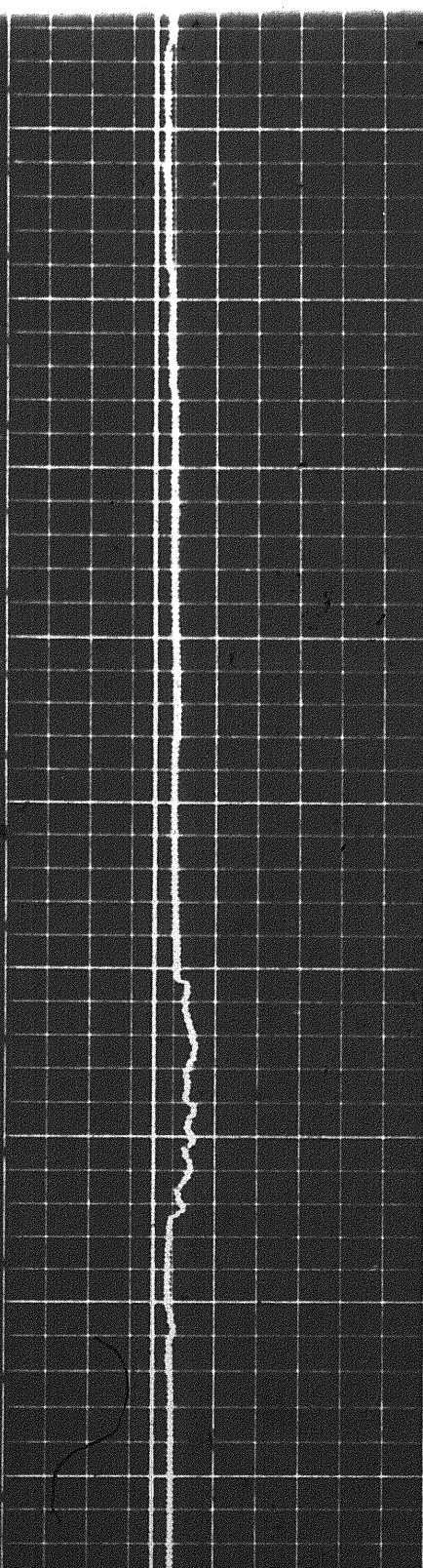
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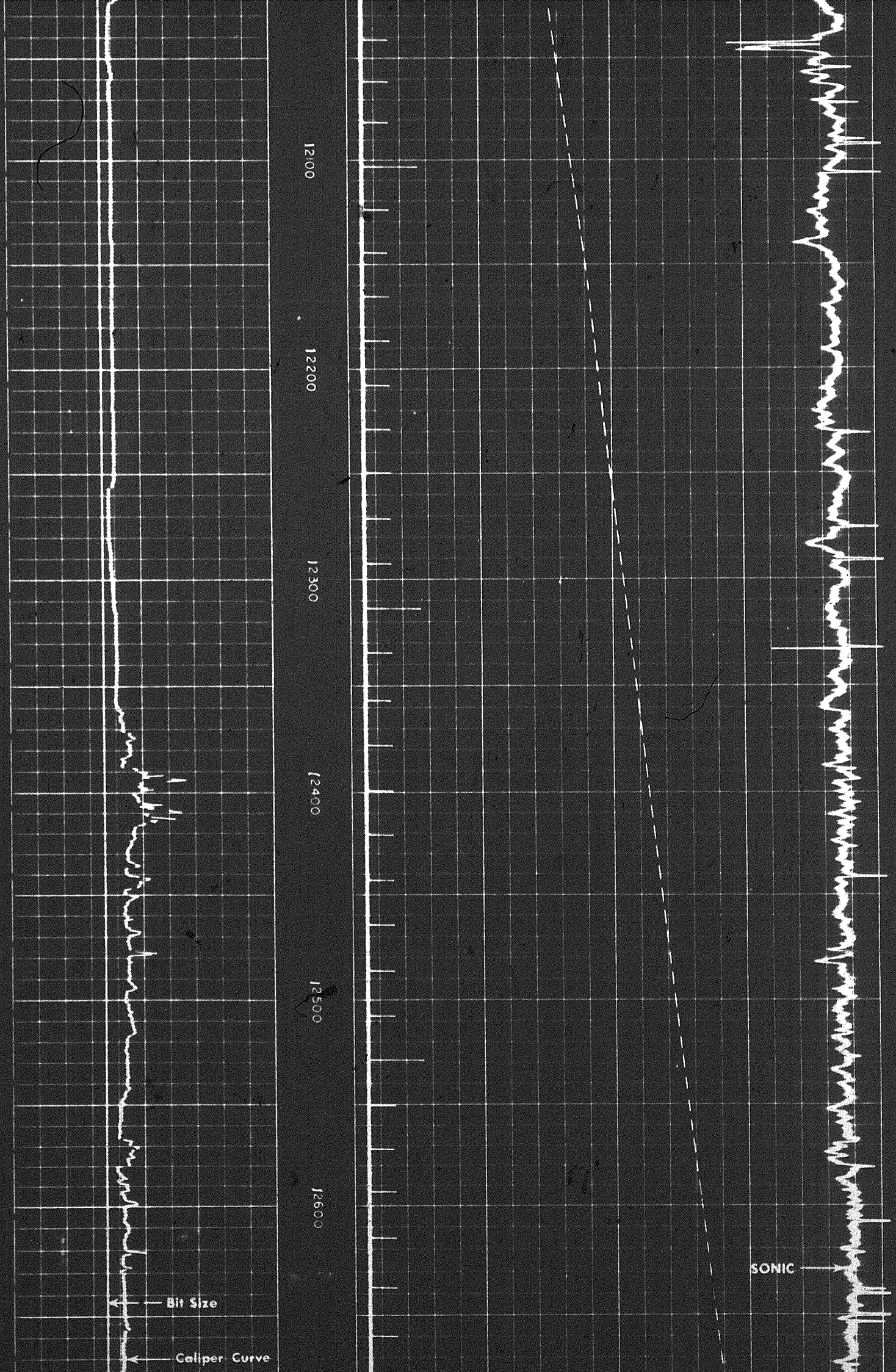
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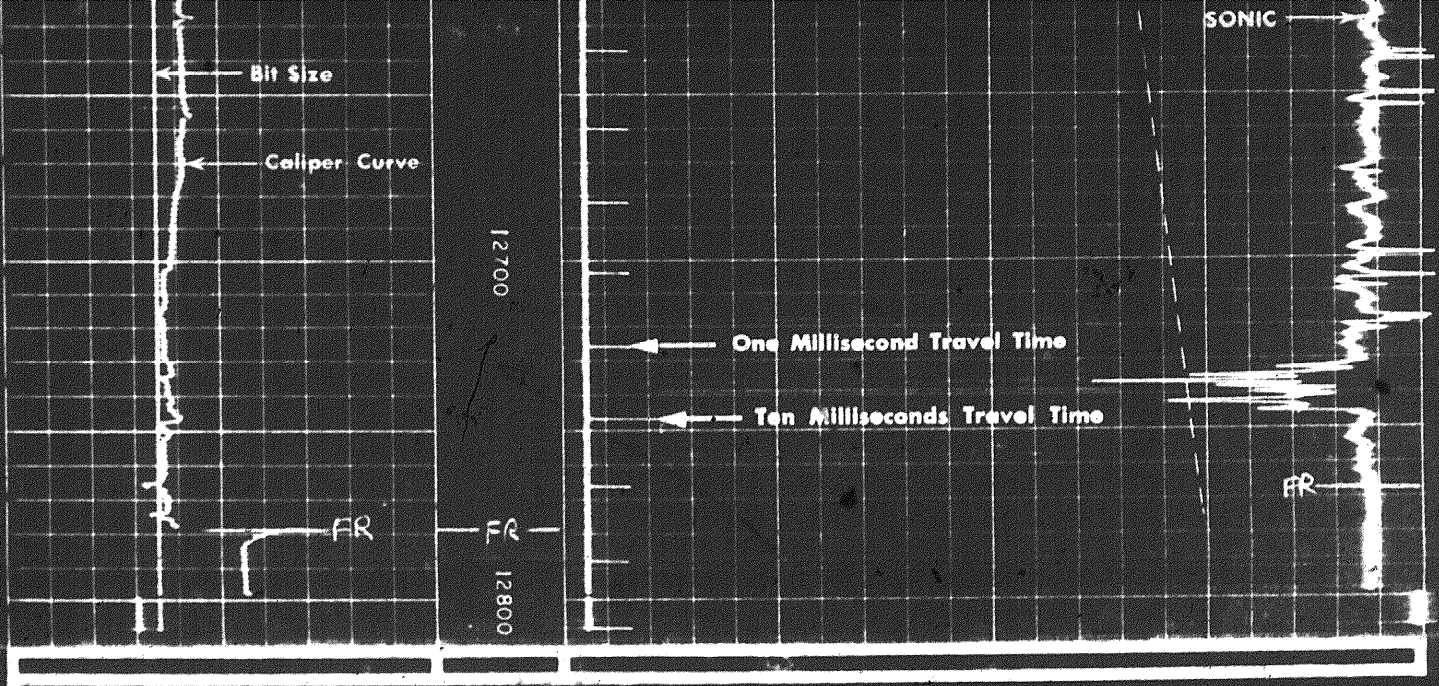
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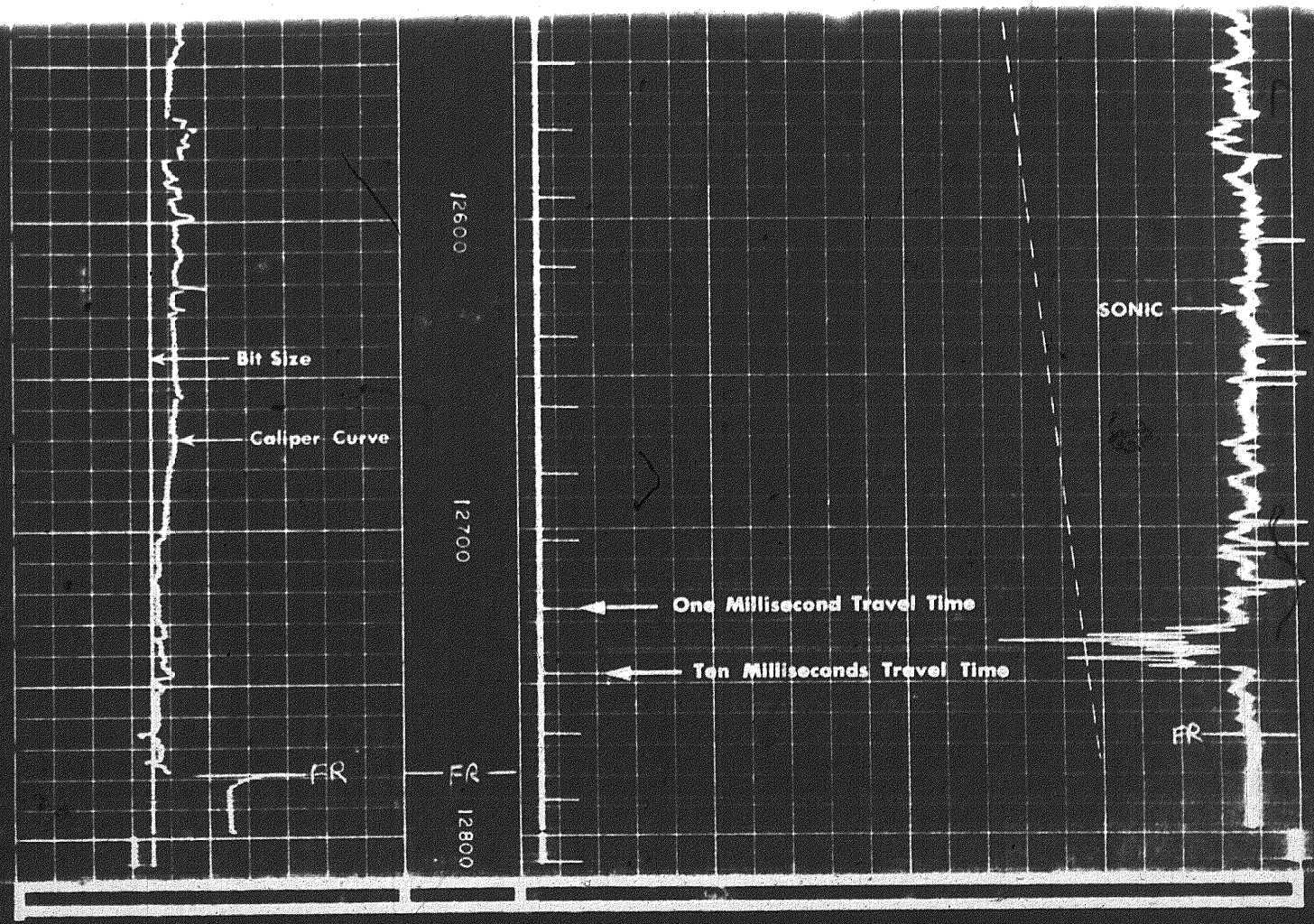
2100







CANADA PETROLEUM COMPANY LTD.
 GEOPHYSICAL DEPARTMENT



AMOCO CANADA PETROLEUM COMPANY LTD.
 GEOPHYSICAL DEPARTMENT

ADJUSTED INTEGRATED TIME BELOW 2210 FOOT DATUM	DEPTH BELOW K.B. 2250 FEET	UNADJUSTED INTEGRATED TIME BELOW 2210 FOOT DATUM	AVERAGE VELOCITY BELOW 2210 FOOT DATUM	INTERVAL VELOCITY OVER PRECEDING MILLISECOND	REFLECTION COEFFICIENT $\frac{(V_2 - V_1)}{(V_2 + V_1)}$
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AMOCO CANADA PETROLEUM COMPANY LTD.
GEOPHYSICAL DEPARTMENT

ADJUSTED
INTEGRATED
TIME BELOW
2210
FOOT DATUM

DEPTH
BELOW
K. B.
2250
FEET

UNADJUSTED
INTEGRATED
TIME BELOW
2210
FOOT DATUM

AVERAGE
VELOCITY
BELOW
2210
FOOT DATUM

INTERVAL
VELOCITY
OVER
PRECEDING
MILLISECOND

REFLECTION
COEFFICIENT
(V2-V1)
(V2+V1)

ADJUSTED INTEGRATED TIME BELOW 2210 FOOT DATUM	DEPTH BELOW K. B. 2250 FEET	UNADJUSTED INTEGRATED TIME BELOW 2210 FOOT DATUM	AVERAGE VELOCITY BELOW 2210 FOOT DATUM	INTERVAL VELOCITY OVER PRECEDING MILLISECOND	REFLECTION COEFFICIENT (V2-V1) (V2+V1)
.0320	774.	.0828	8564.		
.0330	776.	.0830	8567.	11091.	.0154
.0340	738.	.0840	8593.	11437.	.0092
.0350	739.	.0850	8629.	11650.	-.0397
.0360	810.	.0860	8653.	10760.	.0444
.0370	822.	.0870	8677.	11761.	-.0172
.0380	833.	.0880	9011.	11365.	.0073
.0390	845.	.0890	9034.	11531.	.0158
.0300	857.	.0900	9067.	11901.	-.0074
.0910	868.	.0910	9099.	11727.	-.0134
.0920	880.	.0920	9120.	11417.	-.0028
.0930	891.	.0930	9151.	11354.	-.0150
.0940	902.	.0940	9170.	11019.	-.0022
.0950	913.	.0950	9189.	10970.	-.0022
.0960	924.	.0960	9198.	10922.	-.0014
.0970	935.	.0970	9216.	10893.	-.0056
.0980	946.	.0980	9235.	10770.	-.0045
.0990	957.	.0990	9253.	10674.	-.0129
1.000	968.	1.000	9270.	10953.	-.0107
1.010	978.	1.010	9287.	10720.	-.0018
1.020	989.	1.020	9294.	10760.	-.0258
1.030	999.	1.030	9301.	10220.	-.0128
1.040	1009.	1.040	9308.	9962.	-.0283
1.050	1018.	1.049	9314.	9413.	-.0162
1.060	1027.	1.059	9311.	9113.	.0028
1.070	1037.	1.068	9308.	9164.	-.0067
1.080	1046.	1.078	9306.	9042.	-.0085
1.090	1055.	1.087	9303.	9196.	-.0287
1.100	1064.	1.097	9300.	8684.	-.0177
1.110	1073.	1.106	9297.	8997.	-.0060
1.120	1081.	1.116	9295.	8889.	-.0507
1.130	1089.	1.125	9283.	7935.	.0289
1.140	1098.	1.135	9272.	8406.	.1676
1.150	1110.	1.144	9296.	11796.	.1203
1.160	1125.	1.153	9345.	15021.	-.0011
1.170	1140.	1.163	9393.	15054.	-.0625
1.180	1153.	1.172	9424.	13284.	-.0393
1.190	1165.	1.181	9454.	12278.	.0827
1.200	1180.	1.191	9492.	14493.	.0563
1.210	1196.	1.200	9545.	16289.	-.0273
1.220	1211.	1.209	9598.	15425.	.0411
1.230	1226.	1.218	9659.	16746.	-.0329
1.240	1244.	1.227	9702.	15680.	-.0003
1.250	1250.	1.236	9752.	15670.	-.0339
1.260	1276.	1.246	9810.	16769.	-.0386
1.270	1292.	1.255	9850.	15523.	-.1008
1.280	1304.	1.264	9875.	12679.	.0407
1.290	1318.	1.273	9907.	13756.	.0367
1.300	1333.	1.283	9946.	14804.	-.0392
1.310	1347.	1.292	9969.	13687.	.0334
1.320	1361.	1.301	10008.	14633.	.0004
1.330	1376.	1.310	10045.	14644.	-.0012
1.340	1391.	1.320	10075.	14609.	.0060
1.350	1405.	1.329	10111.	14786.	-.0124
1.360	1420.	1.338	10140.	14424.	-.0175
1.370	1434.	1.347	10168.	13929.	-.0447
1.380	1446.	1.357	10188.	12736.	.0329
1.390	1460.	1.366	10216.	13603.	.0043
1.400	1474.	1.375	10236.	13722.	.0160
1.410	1488.	1.385	10262.	14169.	.0018
1.420	1502.	1.394	10296.	14221.	-.0600
1.430	1515.	1.403	10308.	12612.	-.0273
1.440	1527.	1.413	10319.	11942.	-.0052
1.450	1539.	1.422	10331.	11819.	-.0188
1.460	1550.	1.431	10336.	11384.	-.0302
1.470	1561.	1.441	10340.	10717.	-.0363
1.480	1571.	1.450	10338.	9966.	.0554
1.490	1582.	1.460	10342.	11135.	.0127
1.500	1593.	1.469	10353.	11421.	.0506
1.510	1606.	1.478	10364.	12638.	.0117
1.520	1619.	1.488	10382.	12938.	-.0751
1.530	1630.	1.497	10386.	11176.	-.0429
1.540	1640.	1.507	10390.	10257.	.0679
1.550	1652.	1.516	10394.	11751.	.1614
1.560	1668.	1.525	10436.	16273.	-.0248
1.570	1684.	1.534	10465.	15484.	-.0254
1.580	1700.	1.544	10506.	16291.	-.0077
1.590	1716.	1.553	10541.	16043.	-.0484
1.600	1731.	1.562	10562.	14562.	.0007
1.610	1745.	1.571	10590.	14564.	-.0097
1.620	1760.	1.580	10611.	14304.	.0166
1.630	1774.	1.590	10638.	14786.	-.0166
1.640	1790.	1.599	10665.	15286.	-.0433
1.650	1804.	1.608	10685.	14017.	-.0227
1.660	1817.	1.616	10699.	13396.	.0349
1.670	1831.	1.627	10725.	14364.	.0292

G.L. 1000

Marker 1100

G.L. 1500

.1530	1630.	.1497	10386.	11176.	-.0429
.1540	1640.	.1507	10390.	10257.	.0079
.1550	1650.	.1516	10394.	11751.	.1614
.1560	1660.	.1525	10430.	16273.	-.0248
.1570	1670.	.1534	10465.	15484.	.0254
.1580	1680.	.1544	10506.	15291.	-.0077
.1590	1690.	.1553	10541.	16043.	-.0484
.1600	1700.	.1562	10562.	14562.	.0007
.1610	1710.	.1571	10590.	14584.	-.0097
.1620	1720.	.1580	10611.	14304.	.0166
.1630	1730.	.1590	10638.	14786.	.0166
.1640	1740.	.1599	10665.	15286.	-.0433
.1650	1750.	.1606	10685.	14017.	-.0227
.1660	1817.	.1616	10699.	13396.	.0349
.1670	1831.	.1627	10725.	14364.	.0292
.1680	1847.	.1636	10750.	15228.	-.0171
.1690	1861.	.1645	10775.	14714.	-.0183
.1700	1875.	.1654	10794.	14185.	.0115
.1710	1890.	.1664	10819.	14515.	.0384
.1720	1906.	.1673	10843.	15674.	.0271
.1730	1921.	.1682	10867.	14846.	-.0034
.1740	1935.	.1691	10891.	14746.	-.0457
.1750	1949.	.1701	10903.	13458.	.0095
.1760	1962.	.1710	10920.	13716.	.0023
.1770	1976.	.1719	10936.	13780.	-.0239
.1780	1989.	.1729	10949.	13137.	.1401
.1790	2007.	.1738	10983.	17420.	-.0427
.1800	2023.	.1746	11011.	15991.	-.1043
.1810	2036.	.1757	11022.	12972.	.0268
.1820	2049.	.1767	11038.	13685.	.0429
.1830	2064.	.1777	11060.	14912.	-.0235
.1840	2079.	.1786	11076.	14226.	-.0054
.1850	2093.	.1796	11092.	14072.	.0252
.1860	2107.	.1806	11113.	14800.	-.0676
.1870	2120.	.1816	11123.	12927.	.0473
.1880	2135.	.1825	11138.	14210.	-.0283
.1890	2148.	.1835	11153.	13426.	.0043
.1900	2162.	.1845	11163.	13543.	-.0229
.1910	2174.	.1854	11173.	12936.	.0547
.1920	2189.	.1864	11187.	14434.	-.0087
.1930	2203.	.1874	11207.	14184.	.0412
.1940	2218.	.1884	11227.	15403.	.0553
.1950	2236.	.1893	11256.	17208.	-.0156
.1960	2252.	.1903	11286.	16679.	.0215
.1970	2268.	.1913	11310.	15977.	.0236
.1980	2285.	.1922	11338.	16749.	-.0284
.1990	2301.	.1932	11357.	15826.	-.0297
.2000	2316.	.1942	11375.	14912.	.0225
.2010	2331.	.1951	11398.	15598.	.0456
.2020	2349.	.1961	11426.	17089.	.0119
.2030	2366.	.1971	11458.	17499.	.0175
.2040	2384.	.1980	11490.	16124.	-.0466
.2050	2401.	.1990	11512.	16512.	.0359
.2060	2418.	.2000	11544.	17741.	-.0188
.2070	2435.	.2009	11570.	17086.	-.0692
.2080	2450.	.2019	11587.	14873.	.0402
.2090	2466.	.2029	11608.	16119.	-.0221
.2100	2482.	.2038	11624.	15421.	.0437
.2110	2499.	.2048	11649.	14843.	.0437

G.L. 2000

.1630	1774.	.1590	10638.	14786.	.0166
.1640	1790.	.1599	10665.	15286.	-.0433
.1650	1804.	.1606	10685.	14017.	-.0227
.1660	1817.	.1616	10699.	13396.	.0349
.1670	1831.	.1627	10725.	14364.	.0292
.1680	1847.	.1636	10750.	15228.	-.0171
.1690	1861.	.1645	10775.	14714.	-.0183
.1700	1875.	.1654	10794.	14185.	.0115
.1710	1890.	.1664	10819.	14515.	.0384
.1720	1906.	.1673	10843.	15674.	.0271
.1730	1921.	.1682	10867.	14846.	-.0034
.1740	1935.	.1691	10891.	14746.	-.0457
.1750	1949.	.1701	10903.	13458.	.0095
.1760	1962.	.1710	10920.	13716.	.0023
.1770	1976.	.1719	10936.	13780.	-.0239
.1780	1989.	.1729	10949.	13137.	.1401
.1790	2007.	.1738	10983.	17420.	-.0427
.1800	2023.	.1746	11011.	15991.	-.1043
.1810	2036.	.1757	11022.	12972.	.0268
.1820	2049.	.1767	11038.	13685.	.0429
.1830	2064.	.1777	11060.	14912.	-.0235
.1840	2079.	.1786	11076.	14226.	-.0054
.1850	2093.	.1796	11092.	14072.	.0252
.1860	2107.	.1806	11113.	14800.	-.0676
.1870	2120.	.1816	11123.	12927.	.0473
.1880	2135.	.1825	11138.	14210.	-.0283
.1890	2148.	.1835	11153.	13426.	.0043
.1900	2162.	.1845	11163.	13543.	-.0229
.1910	2174.	.1854	11173.	12936.	.0547
.1920	2189.	.1864	11187.	14434.	-.0087
.1930	2203.	.1874	11207.	14184.	.0412
.1940	2218.	.1884	11227.	15403.	.0553
.1950	2236.	.1893	11256.	17208.	-.0156

G.L. 2000

G.L. 2000

1770	1739	10938	13137	0239
1780	1738	10983	13137	1401
1790	1736	11011	13685	0427
1800	1748	11022	15991	1043
1810	1757	11038	12972	0268
1820	1767	11060	13685	0429
1830	1777	11076	14912	0235
1840	1786	11092	14226	0054
1850	1796	11113	14072	0252
1860	1806	11123	14800	0676
1870	1816	11138	12927	0473
1880	1825	11153	14210	0283
1890	1835	11163	13426	0043
1900	1845	11173	13543	0229
1910	1854	11187	12936	0547
1920	1864	11207	14434	0087
1930	1874	11227	14184	0412
1940	1884	11256	15403	0553
1950	1893	11286	17208	0156
1960	1903	11310	16749	0215
1970	1913	11338	15977	0236
1980	1922	11357	16749	0284
1990	1932	11375	15826	0297
2000	1942	11398	14912	0225
2010	1951	11426	15598	0436
2020	1961	11458	17089	0119
2030	1971	11490	17499	0175
2040	1980	11512	18124	0466
2050	1990	11544	16512	0359
2060	2000	11570	17741	0168
2070	2009	11587	17080	0692
2080	2019	11608	14873	0402
2090	2029	11624	16119	0221
2100	2038	11649	15421	0437
2110	2048	11684	16832	0426
2120	2058	11709	16330	0184
2130	2067	11738	17666	0037
2140	2077	11763	17536	0224
2150	2087	11787	16768	0230
2160	2096	11816	17557	0059
2170	2106	11844	17767	0039
2180	2116	11863	17630	0288
2190	2125	11891	16642	0604
2200	2135	11901	14746	0015
2210	2145	11924	14789	0128
2220	2154	11946	14415	0798
2230	2164	11969	16916	0087
2240	2174	11978	16625	0463
2250	2183	11987	15154	0347
2260	2193	12000	14137	0093
2270	2203	12017	13875	0014
2280	2213	12026	13836	0567
2290	2222	12039	15500	0095
2300	2232	12047	15797	0677
2310	2242	12060	13794	0509
2320	2251	12081	15272	0569
2330	2261	12089	13629	0735
2340	2271	12097	15793	0094
2350	2280	12105	16092	0690
2360	2290	12113	14014	0197
2370	2300	12117	14577	0355
2380	2319	12116	13577	0349
2390	2329	12120	14558	0506
2400	2339	12136	13156	0694
2410	2349	12143	11449	0804
2420	2358	12155	13450	0687
2430	2368	12167	15433	0276
2440	2378	12170	14603	0047
2450	2387	12169	14741	0020
2460	2397	12185	14800	0700
2470	2407	12188	12864	0100
2480	2416	12195	12608	1180
2490	2426	12210	15982	1080
2500	2436	12225	12866	0333
2510	2446	12226	13751	0744
2520	2456	12247	15961	0032
2530	2465	12254	15859	0807
2540	2475	12268	13492	0961
2550	2484	12283	16361	0514
2560	2494	12288	14762	0376
2570	2504	12293	15917	0032
2580	2513	12304	15816	0146
2590	2523	12314	15360	0152
2600	2533	12328	14900	0206
2610	2543	12338	14300	0513
2620	2552	12348	15847	0038
2630	2562	12358	15967	0312
2640	2572	12368	15001	0277
2650	2581	12382	14192	0270
2660	2591	12396	14980	0311
2670	2601	12405	15942	0079
2680	2610	12415	16197	0328
2690	2620	12424	15169	0100
2700	2639	12441	14869	0171
2710	2649	12451	15386	0382
2720	2659	12449	16609	0619
2730	2669	12458	14672	0770
2740	2678	12471	12575	0987
2750	2688	12484	15330	0062
2760	2698	12493	15141	0272
2770	2707	12505	15987	0053
2780	2717	12518	15818	0031
2790	2727	12527	15915	0094
2800	2737	12537	16217	0457

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2030	3288	2552	12338	15987	0312
2040	3301	2552	12348	15001	0277
2050	3315	2572	12358	14192	0270
2060	3330	2581	12366	14980	0311
2070	3346	2591	12382	15942	0079
2080	3362	2601	12396	16197	0328
2090	3377	2610	12405	15169	0100
2100	3392	2620	12415	14869	0171
2110	3408	2630	12424	15386	0382
2120	3424	2639	12441	16609	0619
2130	3439	2649	12451	14672	0770
2140	3452	2659	12449	12575	0987
2150	3467	2669	12458	15330	0092
2160	3482	2678	12471	15141	0272
2170	3498	2688	12484	15987	0053
2180	3514	2698	12493	15818	0031
2190	3530	2707	12505	15915	0094
2200	3546	2717	12518	16217	0457
2210	3561	2727	12527	14799	1018
2220	3573	2737	12525	12065	1524
2230	3589	2746	12541	16403	0035
2240	3606	2756	12553	16517	0387
2250	3621	2766	12565	15285	0235
2260	3636	2775	12570	14584	0075
2270	3650	2785	12578	14804	0871
2280	3663	2795	12576	12431	0157
2290	3676	2804	12578	12826	0493
2300	3690	2814	12583	14156	0061
2310	3704	2824	12588	13986	0647
2320	3720	2834	12599	15919	0792
2330	3733	2843	12604	13583	0069
2340	3747	2853	12609	13771	0338
2350	3760	2863	12607	12871	0854
2360	3775	2872	12618	15276	0883
2370	3788	2882	12620	12797	0972
2380	3804	2892	12628	15553	1505
2390	3815	2902	12625	11484	0420
2400	3828	2911	12617	10558	0126
2410	3836	2921	12608	10295	0797
2420	3848	2931	12609	12077	0394
2430	3859	2941	12604	11162	0309
2440	3870	2951	12595	10492	0115
2450	3886	2960	12590	10737	0095
2460	3891	2970	12585	10942	0037
2470	3902	2980	12580	10862	0530
2480	3914	2990	12578	12079	0861
2490	3929	2999	12583	14356	0168
2500	3943	3009	12587	13881	0117
2510	3956	3019	12592	13559	0820
2520	3972	3029	12603	15981	0363
2530	3987	3038	12607	14861	0644
2540	4000	3048	12611	13063	0558
2550	4012	3058	12606	11683	1721
2560	4028	3067	12620	16541	0996
2570	4042	3077	12621	13544	0812
2580	4053	3087	12619	11509	0128
2590	4064	3097	12614	11218	0249
2600	4075	3106	12609	10672	0008
2610	4086	3116	12601	10655	0996
2620	4099	3126	12602	13012	0305
2630	4111	3136	12604	12243	0047
2640	4123	3146	12602	12127	0349
2650	4136	3155	12603	13004	0189
2660	4150	3165	12604	13505	0051
2670	4163	3175	12609	13643	0856
2680	4175	3184	12604	11492	0463
2690	4188	3194	12599	10475	0408
2700	4197	3204	12594	11366	0069
2710	4206	3214	12592	11524	0906
2720	4222	3224	12596	13827	0856
2730	4234	3233	12592	11641	0077
2740	4245	3243	12590	11463	0301
2750	4257	3253	12588	12174	0730
2760	4271	3263	12592	14091	0147
2770	4286	3272	12596	14511	0631
2780	4299	3282	12596	12789	0806
2790	4310	3292	12593	10881	0461
2800	4322	3302	12591	11934	0353
2810	4334	3311	12592	12808	0172
2820	4347	3321	12591	12374	0222
2830	4359	3331	12589	11837	0333
2840	4370	3341	12584	11074	0973
2850	4383	3350	12588	13462	0806
2860	4399	3360	12595	15823	0264
2870	4414	3370	12602	14948	0005
2880	4429	3379	12609	14964	0168
2890	4443	3389	12616	14468	0055
2900	4453	3399	12620	14223	0086
2910	4471	3409	12624	13979	0028

G.L. 4000

3040	3870	2951	12595	10492	0115
3050	3886	2960	12590	10737	0095
3060	3891	2970	12585	10942	0037
3070	3902	2980	12580	10862	0530
3080	3914	2990	12578	12079	0861
3090	3929	2999	12583	14356	0168
3100	3943	3009	12587	13881	0117
3110	3956	3019	12592	13559	0820
	3972	3029	12603	15981	0363

3040	3070	2951	12575	10492	.0115
3050	3080	2960	12576	10737	.0095
3060	3090	2970	12585	10942	.0037
3070	3100	2980	12580	10862	.0530
3080	3110	2990	12578	12079	.0861
3090	3120	2999	12583	14358	.0168
3100	3130	3009	12587	13881	.0117
3110	3140	3019	12592	13559	.0820
3120	3150	3029	12603	15981	.0363
3130	3160	3038	12607	14861	.0644
3140	3170	3048	12611	13063	.0558
3150	3180	3058	12606	11683	.1721
3160	3190	3067	12620	16541	.0990
3170	3200	3077	12621	13544	.0812
3180	3210	3087	12619	11509	.0128
3190	3220	3097	12614	11218	.0249
3200	3230	3106	12609	10672	.0008
3210	3240	3116	12601	10655	.0996
3220	3250	3126	12602	13012	.0305
3230	3260	3136	12604	12247	.0047
3240	3270	3146	12602	12127	.0349
3250	3280	3155	12603	13004	.0189
3260	3290	3165	12604	13505	.0051
3270	3300	3175	12609	13643	.0856
3280	3310	3184	12604	11492	.0463
3290	3320	3194	12599	10475	.0408
3300	3330	3204	12594	11366	.0069
3310	3340	3214	12592	11524	.0908
3320	3350	3224	12596	13827	.0856
3330	3360	3233	12592	11641	.0077
3340	3370	3243	12590	11463	.0301
3350	3380	3253	12588	12174	.0730
3360	3390	3263	12592	14091	.0147
3370	3400	3272	12596	14511	.0631
3380	3410	3282	12598	12789	.0806
3390	3420	3292	12593	10881	.0461
3400	3430	3302	12591	11934	.0353
3410	3440	3311	12592	12808	.0172
3420	3450	3321	12591	12374	.0222
3430	3460	3331	12589	11837	.0333
3440	3470	3341	12584	11074	.0973
3450	3480	3350	12588	13462	.0806
3460	3490	3360	12595	15823	.0284
3470	3500	3370	12602	14948	.0005
3480	3510	3379	12609	14964	.0168
3490	3520	3389	12616	14468	.0035
3500	3530	3399	12620	14223	.0086
3510	3540	3409	12624	13979	.0028
3520	3550	3418	12628	13902	.0044
3530	3560	3428	12632	14025	.0160
3540	3570	3438	12636	13748	.0168
3550	3580	3447	12637	13294	.0405
3560	3590	3457	12635	12259	.0263
3570	3600	3467	12633	11631	.0294
3580	3610	3477	12628	10966	.1512
3590	3620	3486	12635	14874	.0113
3600	3630	3496	12639	14542	.0585
3610	3640	3506	12640	12935	.0133
3620	3650	3515	12641	13284	.0224
3630	3660	3525	12642	12703	.0248
3640	3670	3535	12640	12087	.0628
3650	3680	3545	12644	13707	.0014
3660	3690	3555	12648	13669	.0446
3670	3700	3564	12654	14846	.0699
3680	3710	3574	12655	12994	.0441
3690	3720	3584	12659	14194	.0214
3700	3730	3593	12665	14816	.0106
3710	3740	3603	12671	15134	.0165
3720	3750	3613	12675	14644	.0557
3730	3760	3623	12686	16373	.0126
3740	3770	3632	12695	15959	.0416
3750	3780	3642	12699	14685	.0283
3760	3790	3652	12707	15540	.0127
3770	3800	3661	12714	15150	.0150
3780	3810	3671	12722	15612	.0035
3790	3820	3681	12728	15503	.0418
3800	3830	3690	12732	14259	.0458
3810	3840	3700	12732	13011	.0703
3820	3850	3710	12738	14981	.0287
3830	3860	3722	12747	15855	.0111
3840	3870	3734	12758	16222	.0016
3850	3880	3746	12766	16172	.0224
3860	3890	3758	12772	15464	.0201
3870	3900	3770	12778	14856	.0207
3880	3910	3782	12784	14776	.0162
3890	3920	3794	12789	15262	.0367
3900	3930	3806	12792	14182	.1054
3910	3940	3818	12806	17523	.0637
3920	3950	3830	12811	15425	.0276
3930	3960	3842	12817	14597	.0302
3940	3970	3854	12820	13742	.0106
3950	3980	3865	12820	13455	.0072
3960	3990	3877	12821	13263	.0050
3970	4000	3889	12821	13130	.0091
3980		3901	12822	12892	.0039
3990		3912	12822	12791	.0152
4000		3924	12820	12407	.0115

G.L. 4000

G.L. 4900
Base Mattson 4910

3810	G.L. 4900	4892	3700	12732	13011	0703
3820		4907	3710	12738	14981	0287
3830	Base Mattson 4910	4923	3722	12747	15865	0111
3840		4939	3734	12758	16222	0016
3850		4955	3746	12766	16172	0224
3860		4971	3758	12772	15464	0201
3870		4985	3770	12778	14856	0027
3880		5000	3782	12784	14776	0162
3890		5016	3794	12789	15262	0367
3900		5030	3806	12792	14182	1054
3910		5047	3818	12806	17523	0637
3920		5063	3830	12811	15425	0276
3930		5077	3842	12817	14597	0302
3940		5091	3854	12820	13742	0106
3950		5104	3865	12820	13455	0072
3960		5118	3877	12821	13263	0050
3970		5131	3889	12821	13130	0091
3980		5144	3901	12822	12892	0039
3990		5157	3912	12822	12791	0152
4000		5169	3924	12820	12407	0116
4010	Marker 5196	5181	3935	12820	12122	1319
4020		5197	3947	12826	15806	0177
4030		5212	3959	12834	15256	0208
4040		5227	3971	12837	14636	0390
4050		5243	3983	12844	15823	0528
4060		5257	3995	12847	14237	0041
4070		5271	4007	12850	14122	0069
4080		5285	4019	12855	14319	0187
4090		5299	4031	12858	13795	0070
4100		5313	4042	12859	13603	0067
4110		5326	4054	12861	13422	0149
4120		5339	4066	12862	13028	0148
4130		5353	4078	12862	13418	0205
4140		5365	4089	12862	12879	0091
4150		5378	4101	12863	12646	0033
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.8570	10789.	.8485	12543.	12516.	.0050
.8580	10802.	.8495	12542.	12658.	.0000
.8590	10815.	.8505	12542.	12658.	.0007
.8600	10827.	.8515	12543.	12675.	.0057
.8610	10840.	.8525	12544.	12821.	.0000
.8620	10853.	.8535	12543.	12821.	.0053
.8630	10866.	.8545	12543.	12958.	.0346
.8640	10880.	.8555	12545.	13888.	.0153
.8650	10894.	.8565	12548.	14318.	.0188
.8660	10908.	.8575	12548.	13790.	.0004
.8670	10922.	.8585	12550.	13800.	.0140
.8680	10936.	.8595	12552.	14209.	.0078
.8690	10950.	.8605	12555.	14431.	.0380
.8700	10964.	.8615	12555.	13374.	.0146
.8710	10977.	.8625	12557.	13769.	.0164
.8720	10992.	.8635	12558.	14229.	.0029
.8730	11006.	.8645	12560.	14147.	.0085
.8740	11020.	.8655	12562.	13908.	.0180
.8750	11033.	.8665	12563.	13416.	.0151
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.8780	11074.	.8695	12567.	13717.	.0098
.8790	11088.	.8705	12568.	13451.	.0113
.8800	11101.	.8715	12568.	13149.	.0150
.8810	11114.	.8725	12569.	12759.	.0037
.8820	11126.	.8735	12569.	12854.	.0112
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.8840	11152.	.8755	12569.	12671.	.0017
.8850	11164.	.8765	12569.	12713.	.0304
.8860	11178.	.8775	12570.	13511.	.0222
.8870	11191.	.8785	12570.	12925.	.0038
.8880	11204.	.8795	12571.	13023.	.0010
.8890	11217.	.8805	12571.	13050.	.0056
.8900	11230.	.8815	12573.	13197.	.0080
.8910	11243.	.8825	12574.	12986.	.0059
.8920	11256.	.8835	12574.	13141.	.0104
.8930	11269.	.8845	12574.	12871.	.0030
.8940	11282.	.8855	12574.	12949.	.0044
.8950	11295.	.8865	12574.	12836.	.0043
.8960	11308.	.8875	12575.	12946.	.0035
.8970	11321.	.8885	12575.	13038.	.0164
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.9000	11361.	.8915	12578.	13775.	.0045
.9010	11375.	.8925	12579.	13900.	.0104
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.9060	11446.	.8975	12588.	14121.	.0039
.9070	11460.	.8985	12590.	14010.	.0149
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.9090	11487.	.9005	12592.	13667.	.0075
.9100	11501.	.9015	12593.	13874.	.0109
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.9130	11544.	.9045	12600.	15018.	.0104
.9140	11559.	.9055	12602.	14707.	.0042
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.9160	11589.	.9075	12608.	15593.	.0060
.9170	11605.	.9085	12611.	15407.	.0088
.9180	11620.	.9095	12614.	15681.	.0188
.9190	11637.	.9105	12618.	16281.	.0559
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.8740	11020.	.8655	12562.	13908.	.0180
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.8760	11047.	.8675	12565.	13827.	.0143
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.8840	11152.	.8755	12569.	12671.	.0017
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.8830	11139	.8745	12569	12570	.0040
.8840	11152	.8755	12569	12671	.0017
.8850	11164	.8765	12569	12713	.0304
.8860	11178	.8775	12570	13511	.0222
.8870	11191	.8785	12570	12925	.0038
.8880	11204	.8795	12571	13023	.0010
.8890	11217	.8805	12571	13050	.0056
.8900	11230	.8815	12573	13197	.0080
.8910	11243	.8825	12574	12986	.0059
.8920	11256	.8835	12574	13141	.0104
.8930	11269	.8845	12574	12871	.0030
.8940	11282	.8855	12574	12949	.0044
.8950	11295	.8865	12574	12836	.0043
.8960	11308	.8875	12575	12946	.0035
.8970	11321	.8885	12575	13038	.0164
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.9000	11361	.8915	12578	13775	.0045
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.9190	11637	.9105	12618	16281	.0559
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.9480	12214	.9395	12842	20982	.0129
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.9510	12277	.9425	12868	21159	.0107
.9520	12296	.9435	12876	20712	.0076
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.9570	12405	.9485	12920	21600	.0008
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.9590	12448	.9505	12937	21453	.0005
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.9620	12512	.9535	12964	21370	.0007
.9630	12533	.9545	12973	21339	.0001
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.9690	12663	.9605	13027	21739	.0025
.9700	12685	.9615	13036	21629	.0051
.9710	12706	.9625	13044	21407	.0004
.9720	12728	.9635	13052	21426	.0770
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.9740	12768	.9655	13067	21391	.0081
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