

Bit Run Summary

[illegible]

Type		KCl/PHPA/GLYC.									
Mud weight	ppg	9.75									
Solids	%	7.4									
Chlorides	ppm	36,500									
Rm											
Rmf											
Rmc											
Potassium	ppm	40,794									
Environmental data											
GR											
Mud weight	ppg	9.75									
Bit size	in.	8.5									
Resistivity											
Neutron porosity											
Hole Size											
Mud weight											
Temperature											
Mud salinity											
Formation salinity											
Recording rate 1	SEC										
Recording rate 2	SEC										
Filtering GR		3 pt.									
Filtering density											
Filtering Neutron											
Company representative		R. Morris	B. Davis	B. Steel	B. Sutherland						
Anadrill personnel		K. Handley	D. Hastie	C. Cocks	B. Manjenic	T. Auger					






<p style="text-align: center;">DISCLAIMER</p> <p>THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.</p>		
OTHER SERVICES FOR RUN1 Directional Drilling Directional Surveys	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 1 8-1/2 in. hole was drilled from 549.5 m to 3473.5 m. Depth is referenced to the Driller's Depth. Gamma Ray is corrected for Tool Size, Bit Size and Mud Weight. Mud type is KCl/PHPA/Glycol. POOH due to TD of HLA A6A.	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER


Thank You for Choosing Schlumberger.

EQUIPMENT DESCRIPTION

RUN1

DOWNHOLE EQUIPMENT

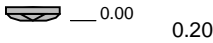
6-3/4 in. PowerPulse*		22.66
MDC: 06		
MEC: 61		
MDI: 626		
MGR: 29		
DH Software:		
D&I		18.37
GR		17.72
6-1/2 in. PMDC		14.45
S/N: ASS1		
6-5/8 in. NM Roller Reamer		12.76
S/N: 411W		
Reamer OD:		
6-1/2 in. PMDC		10.58
S/N: 961		
6-3/4 in. PowerPak* Motor		7.89
A675XP		
S/N: 14		
1.5 deg. b		
8-3/8 in. Moto		



Smith PDC Bit

8-1/2 in
S75HPX S/N

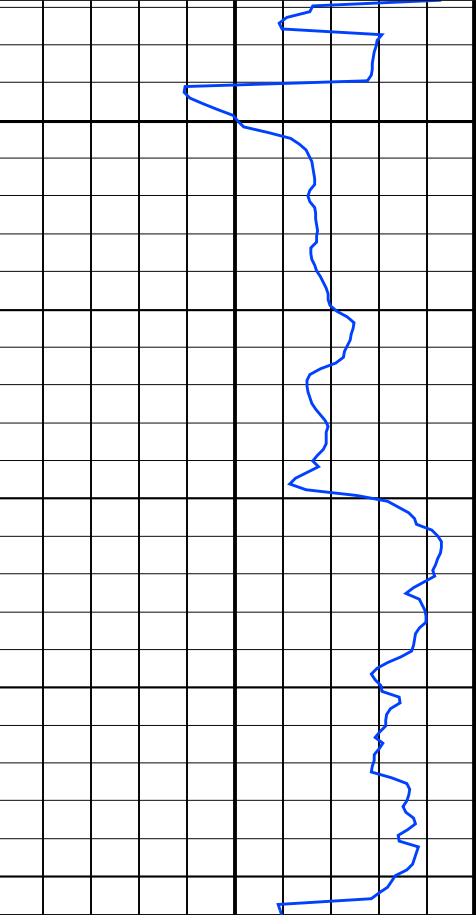
Maximum string diameter 8.50 in.
All lengths in Meters



HLA A6A GR 1:200 TVD

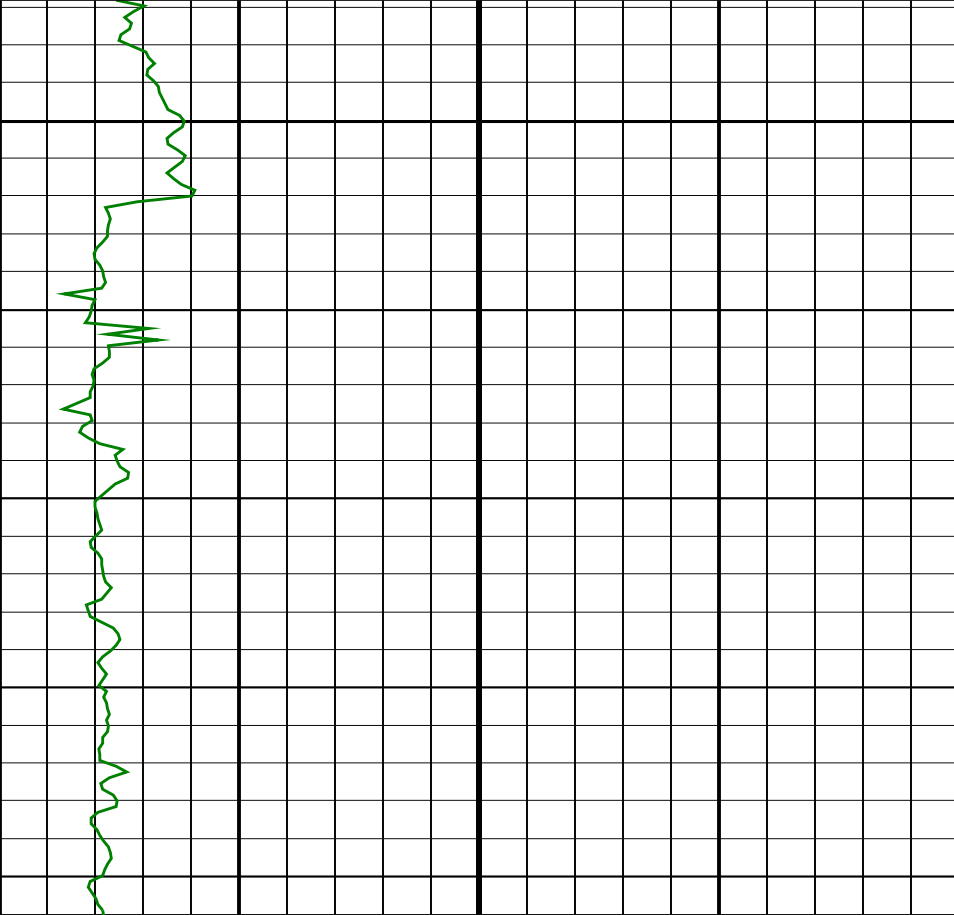
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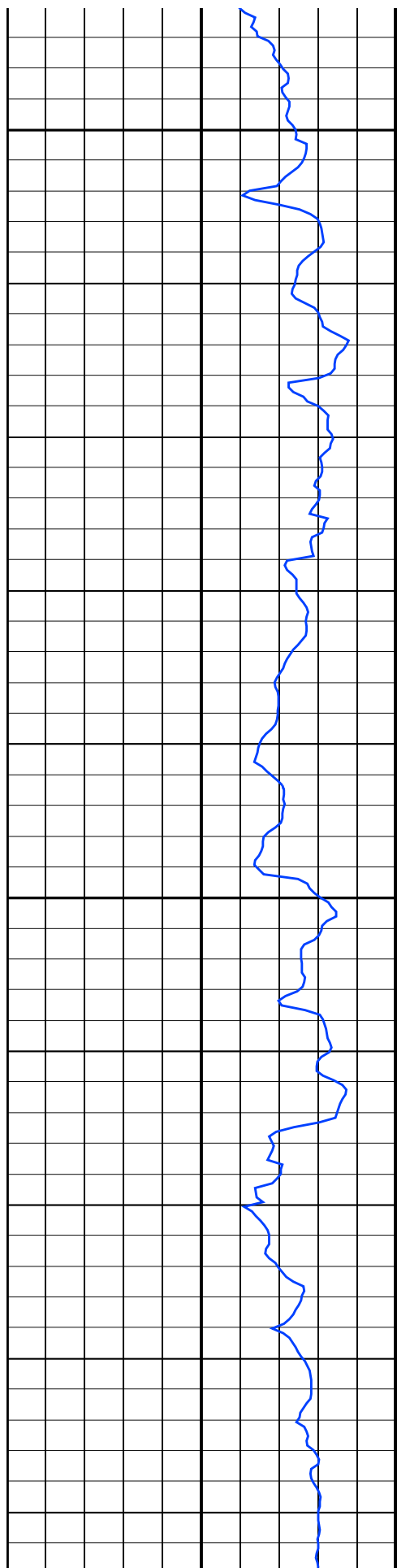
ROP*5 (ROP5)
200 (M/HR) 0



575
TVD

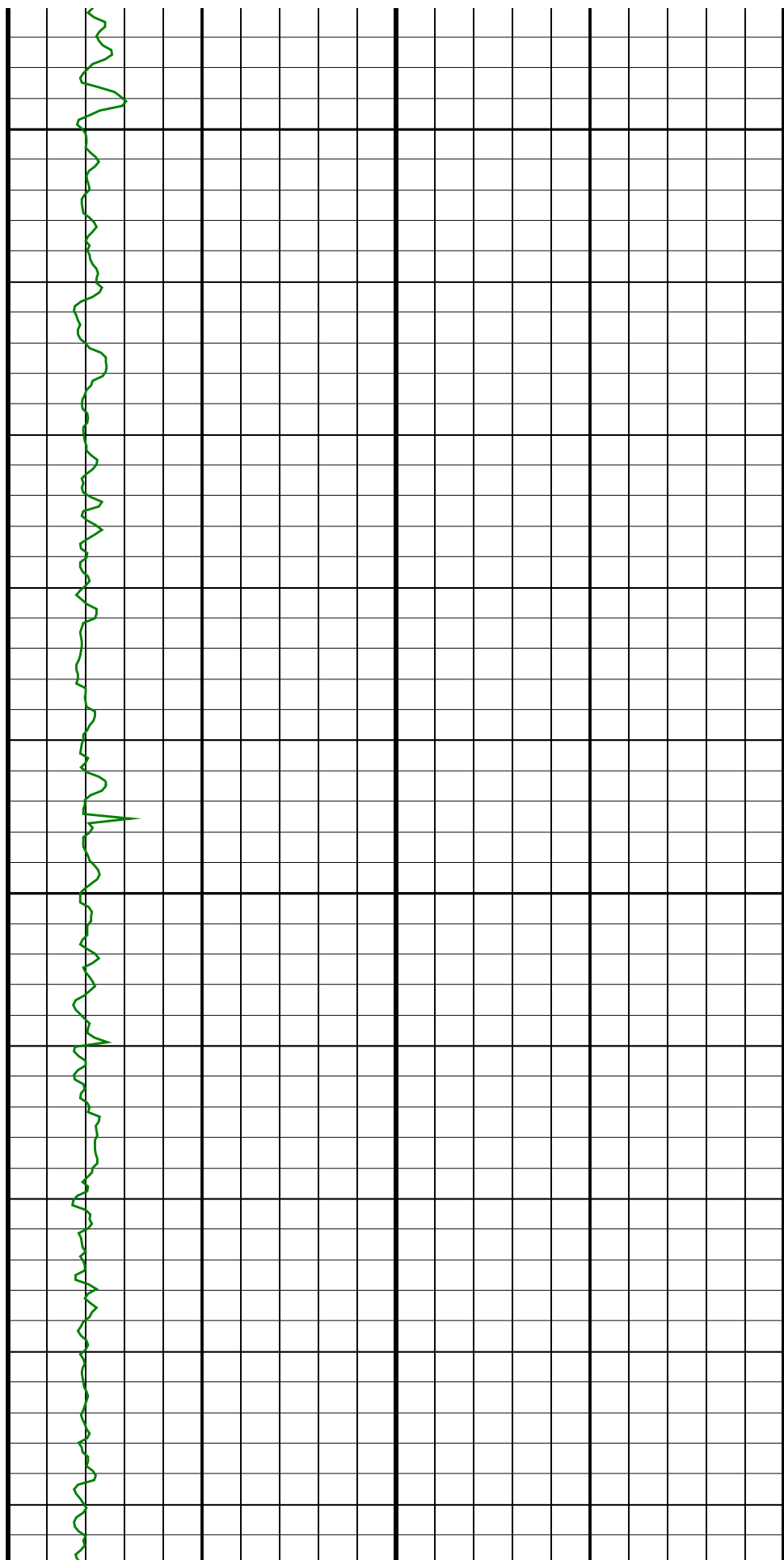
GR(TM) (GRM1)
0 (GAPI) 400

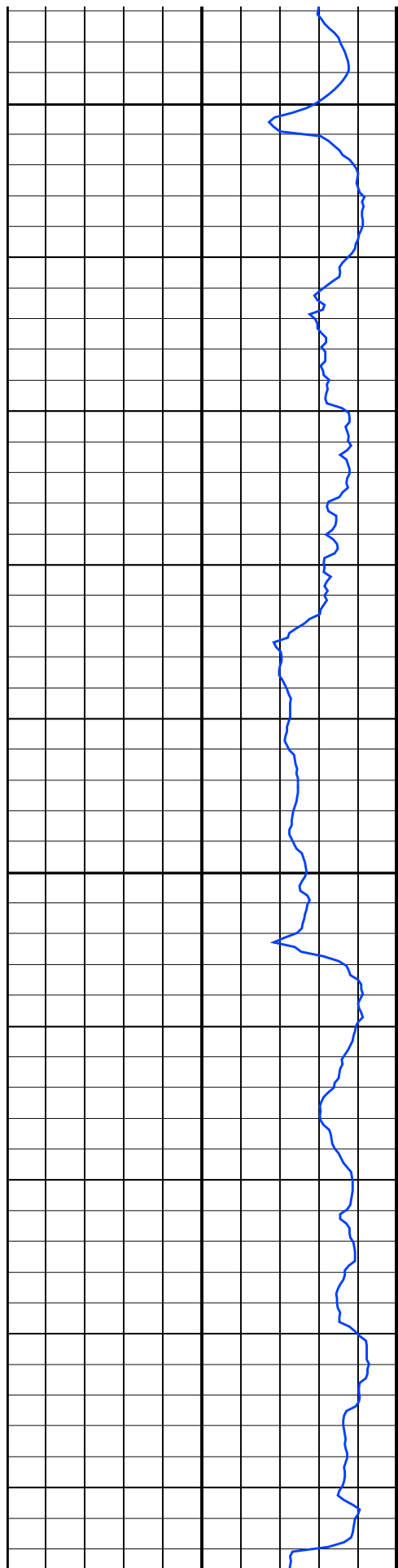




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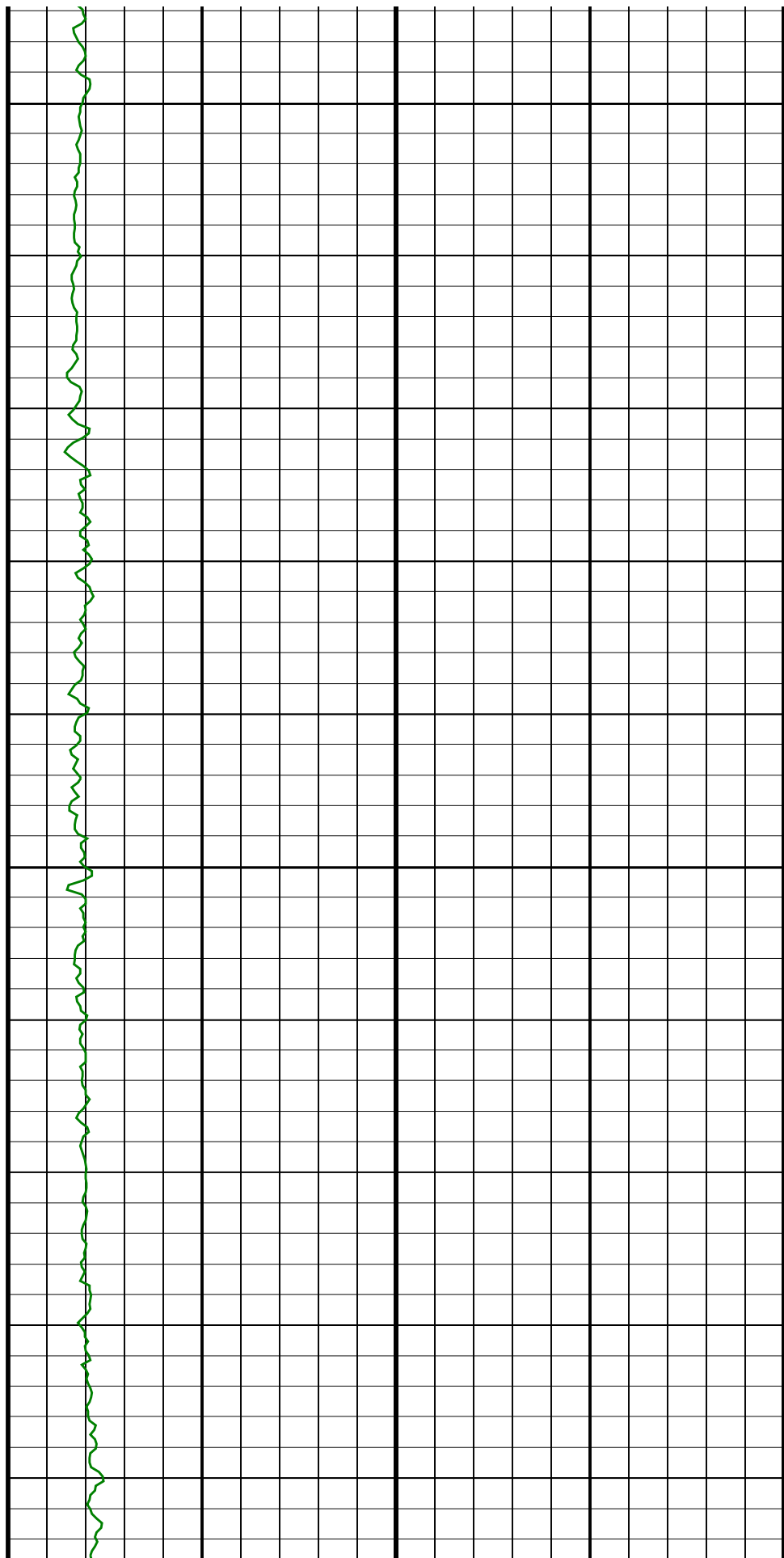
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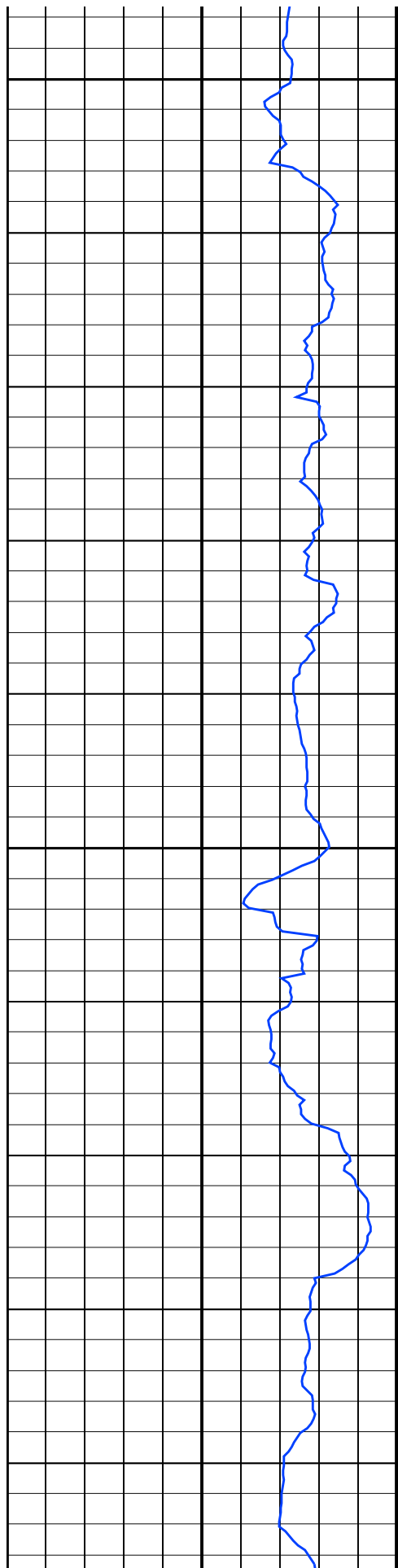




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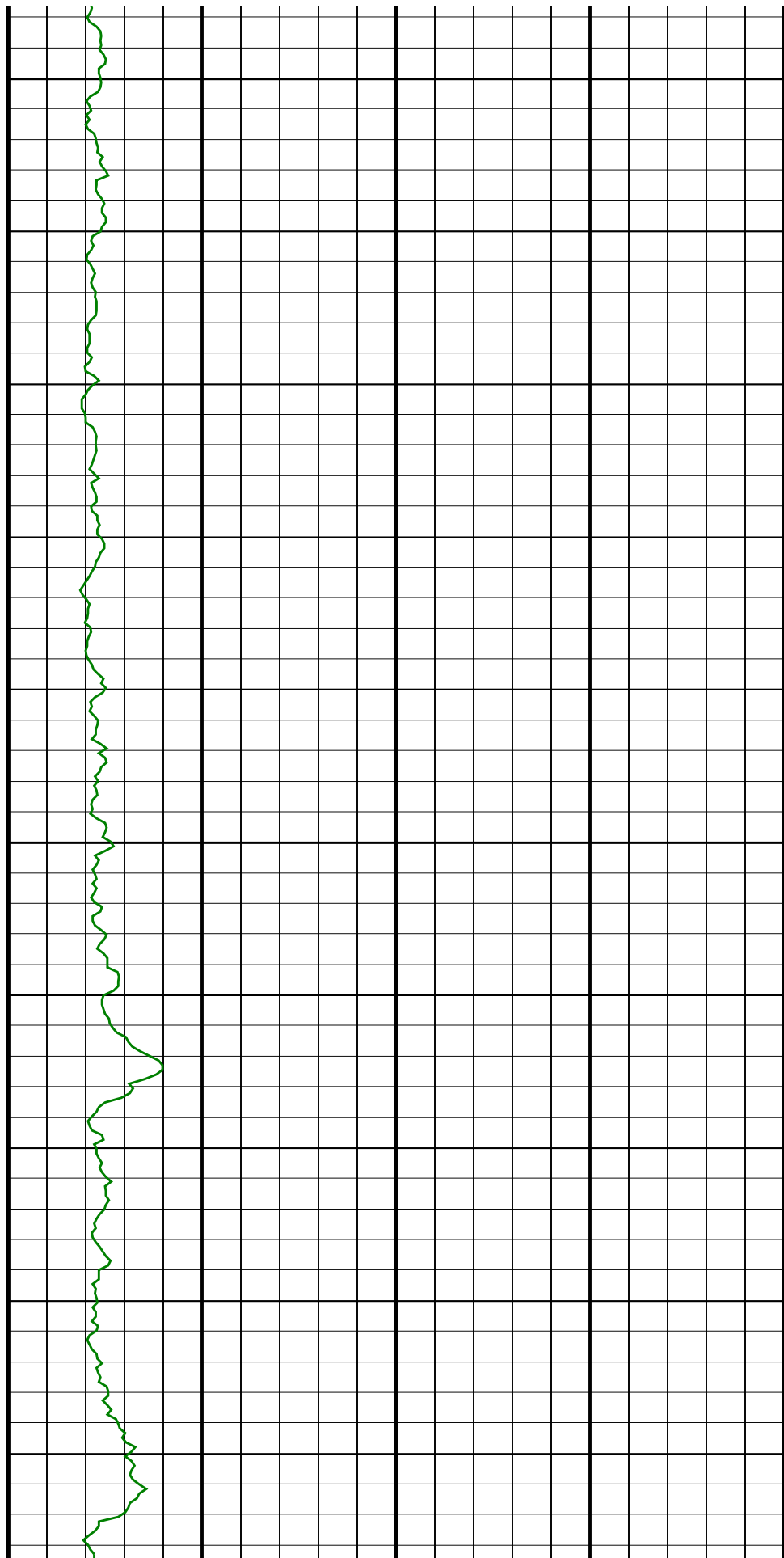
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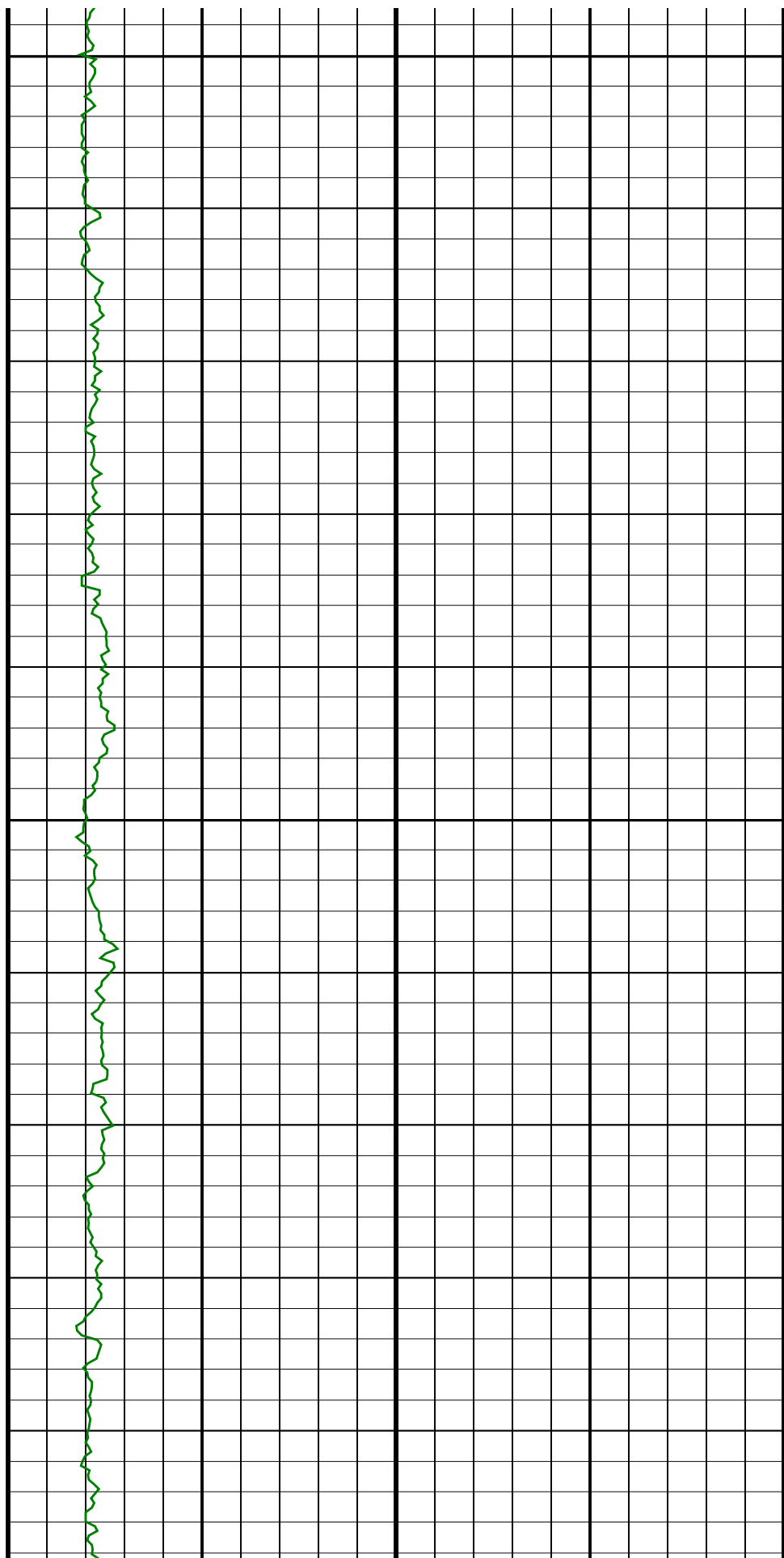
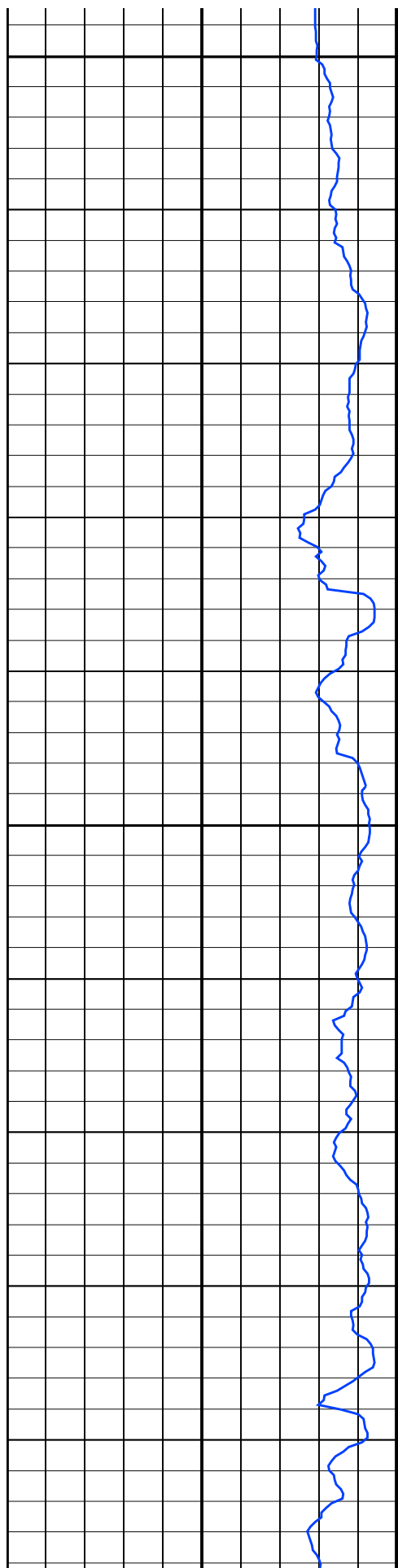


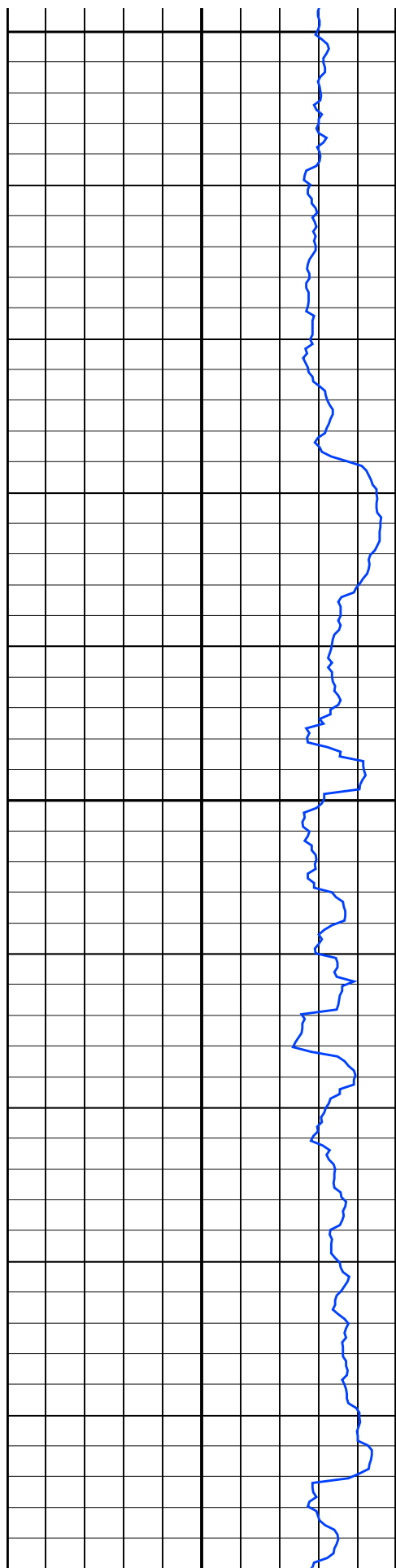


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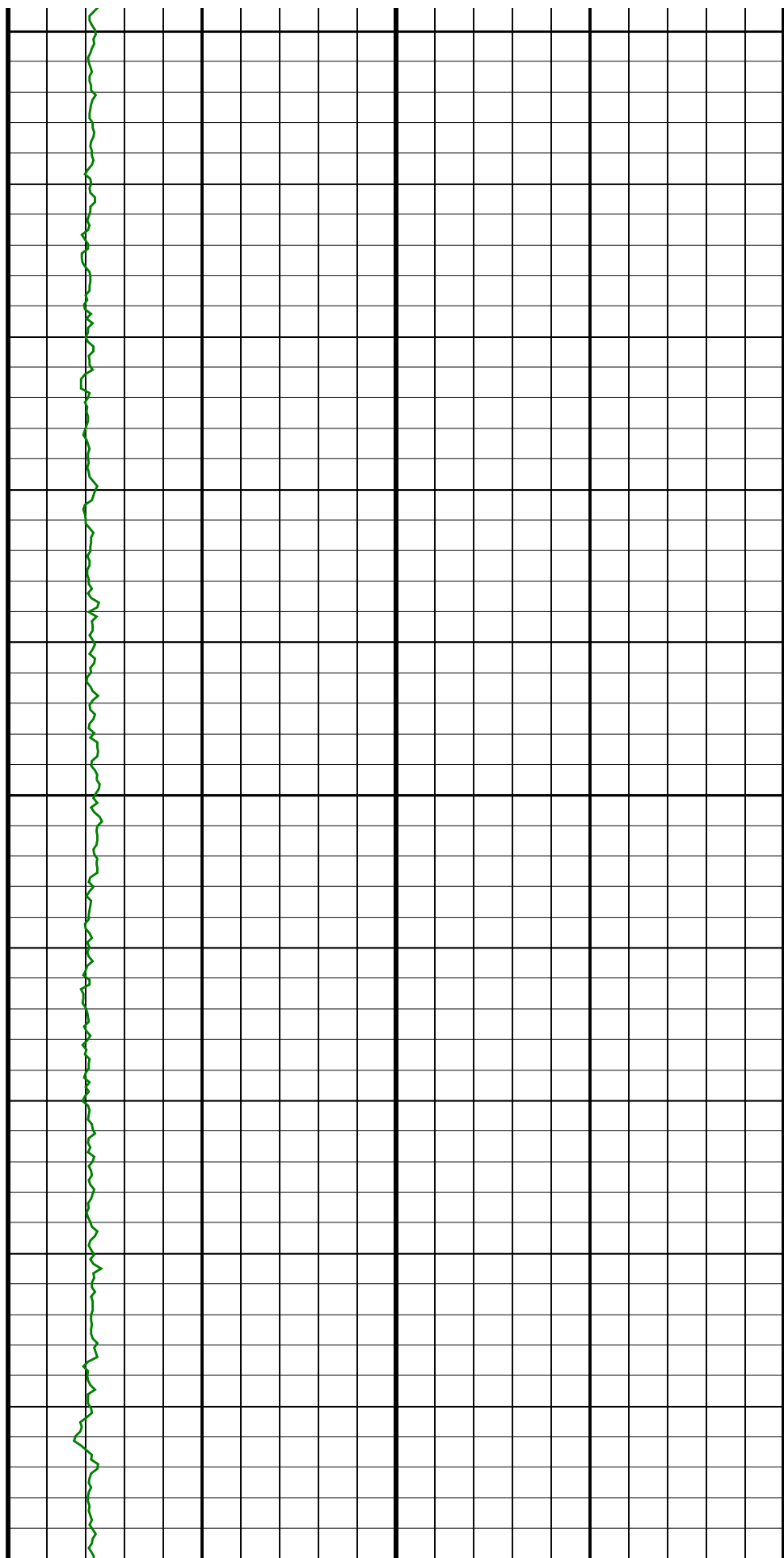
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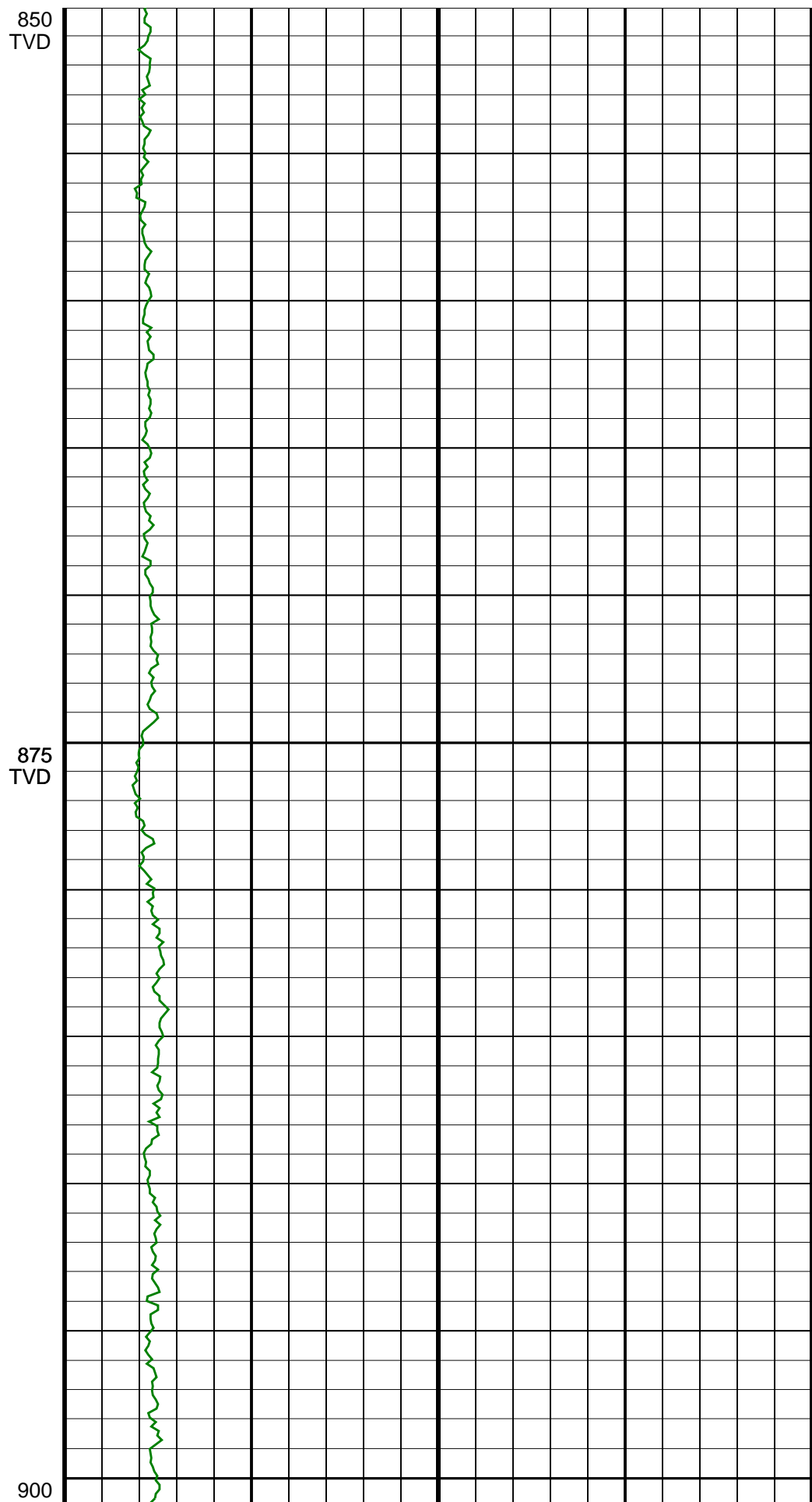
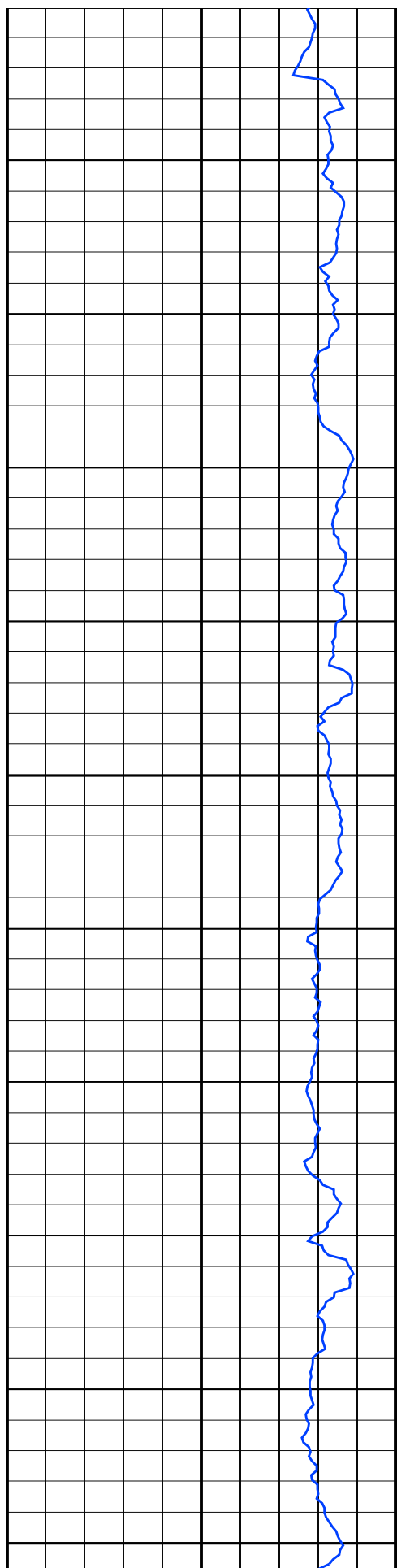


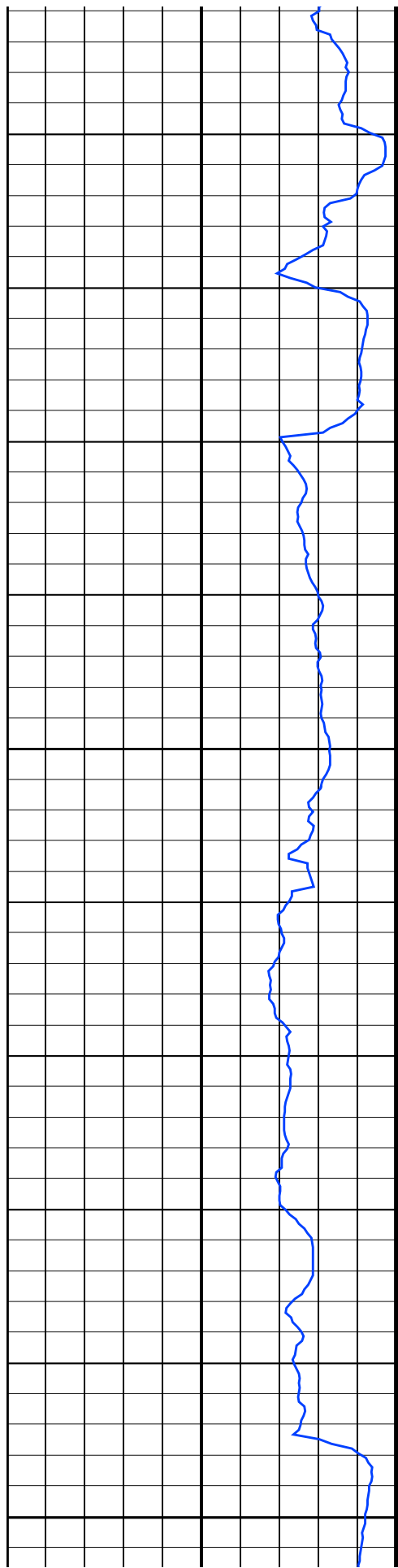


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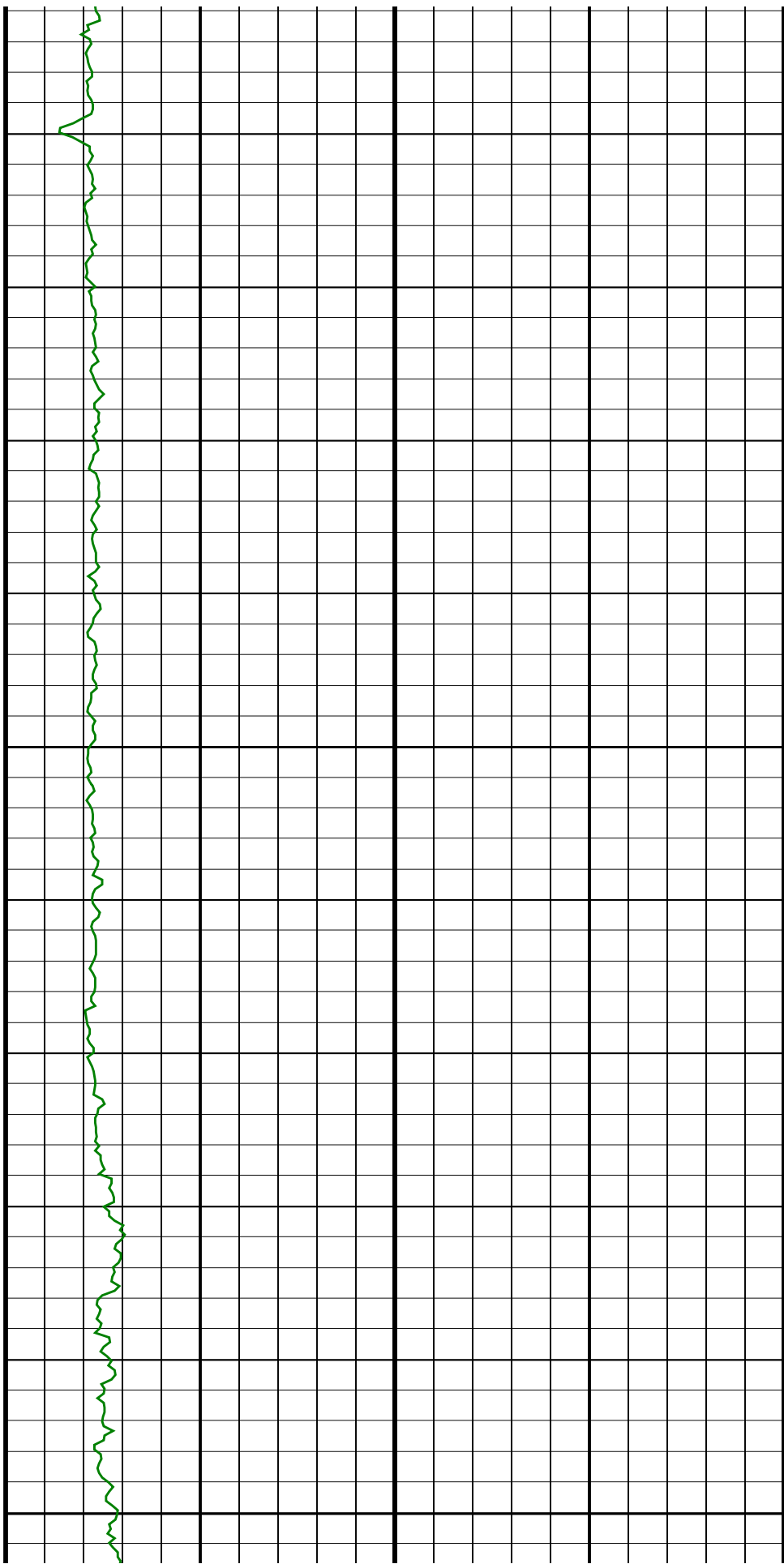


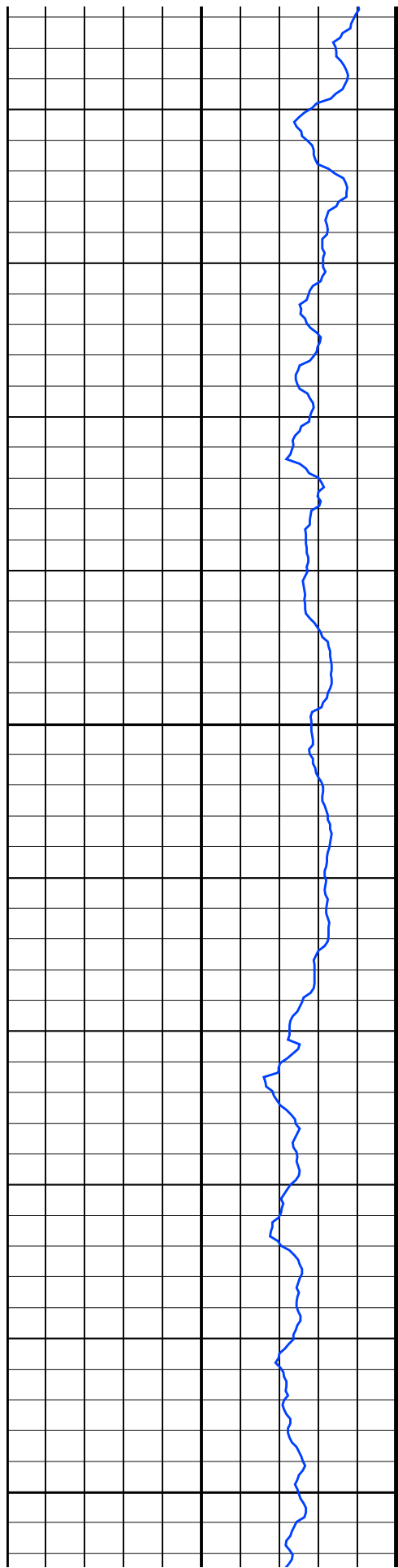


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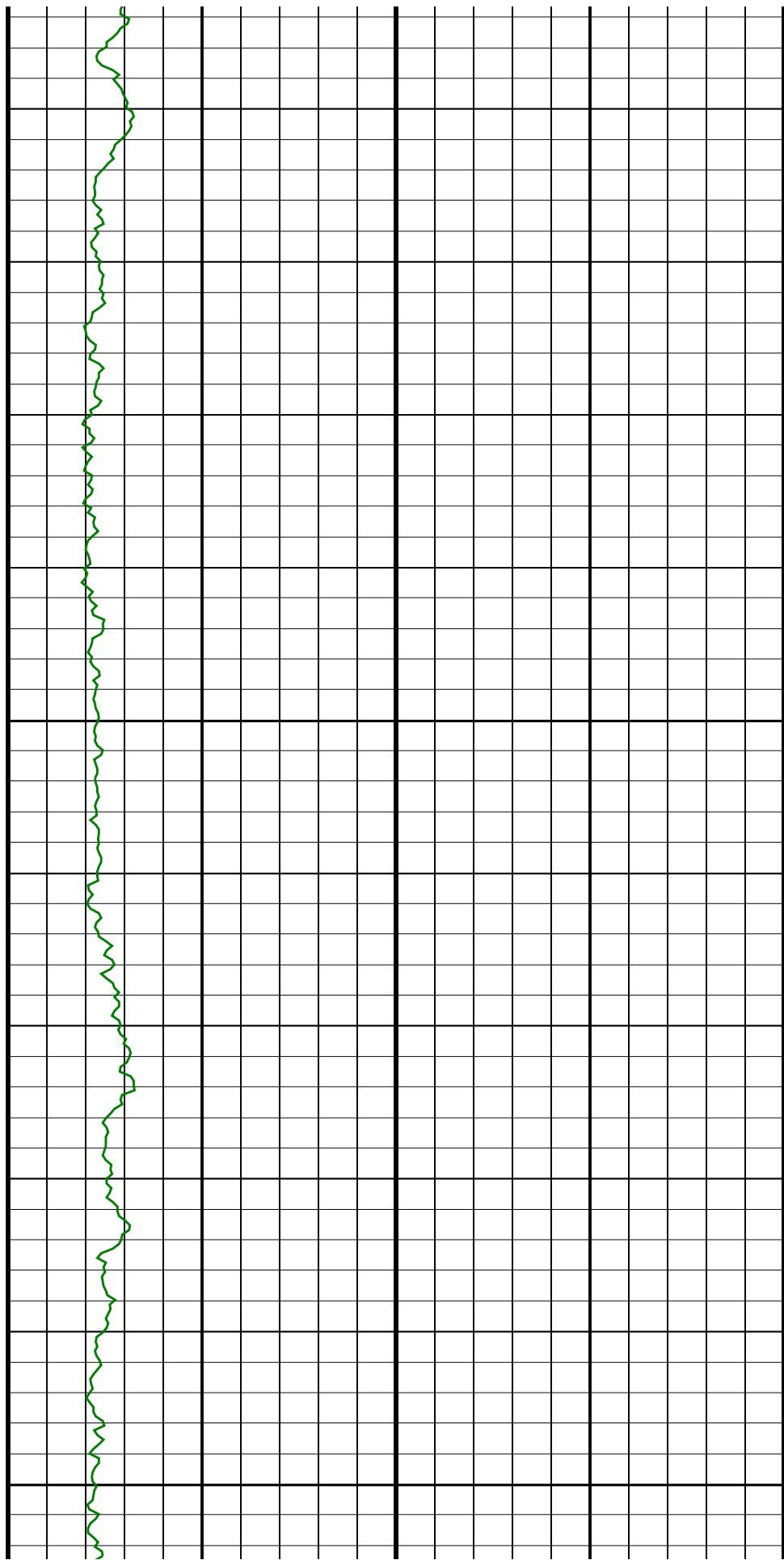
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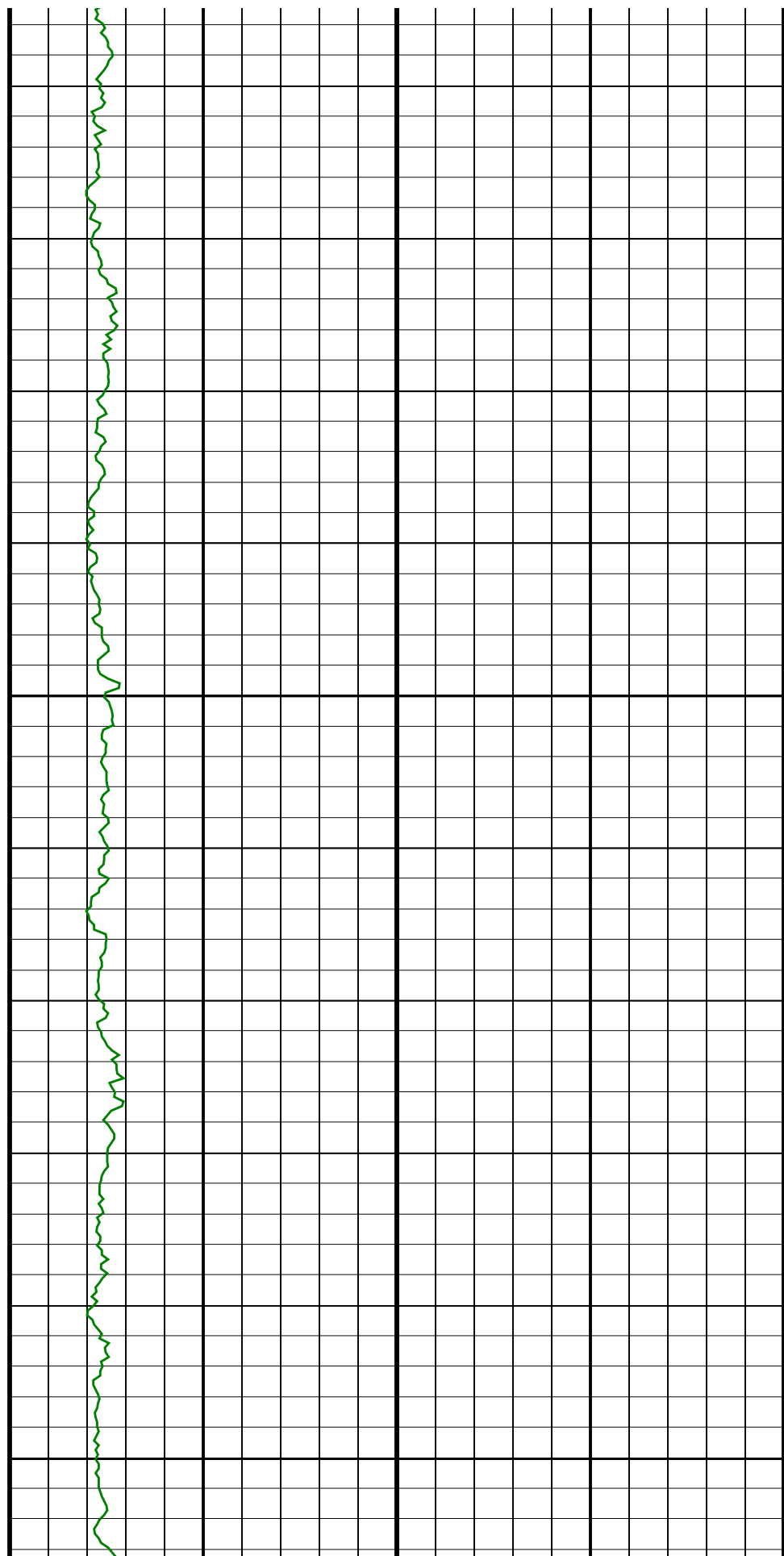
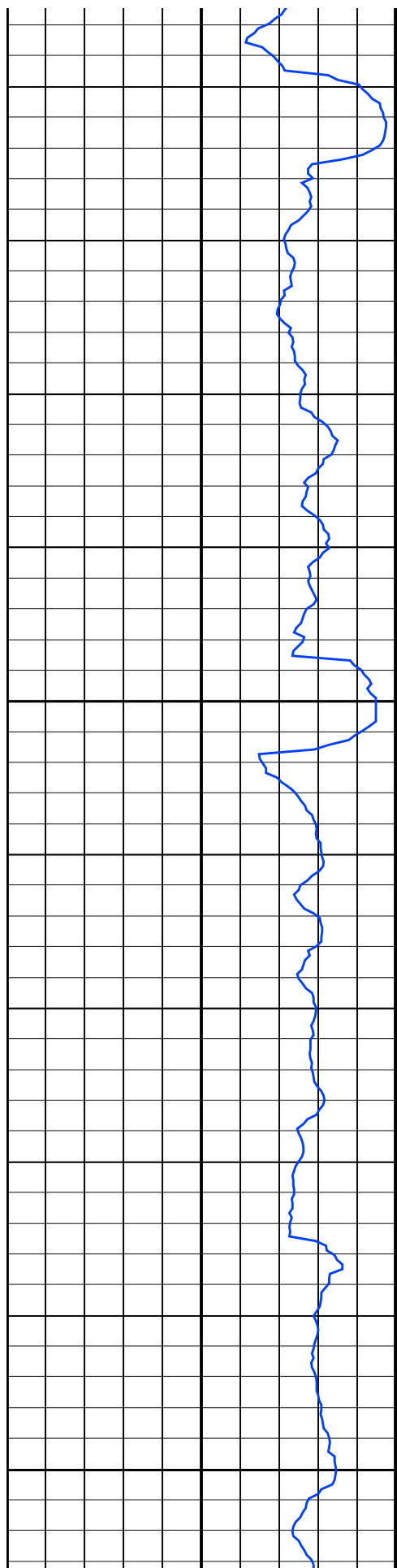


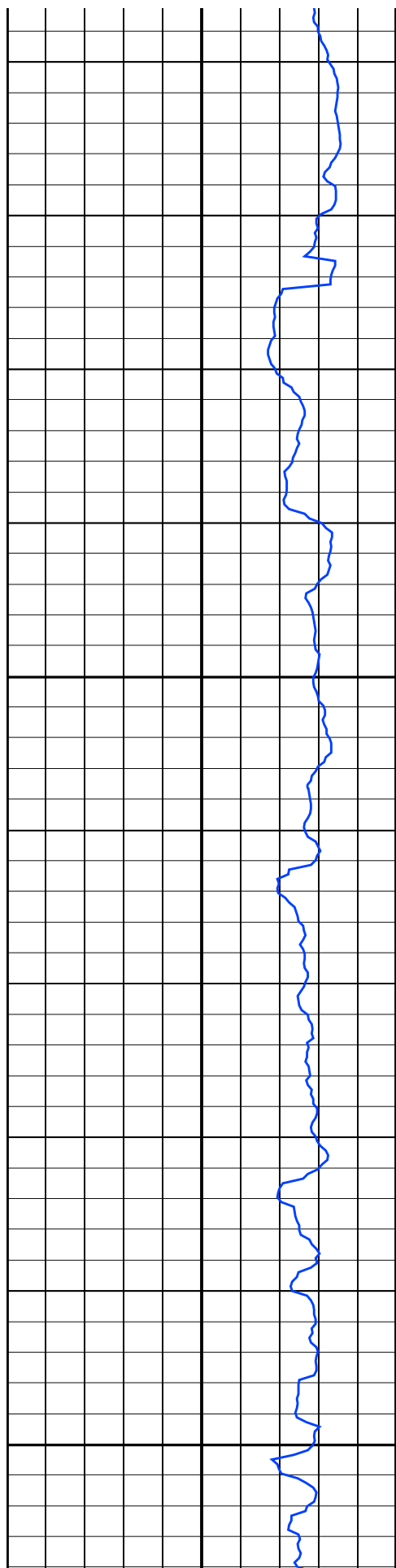


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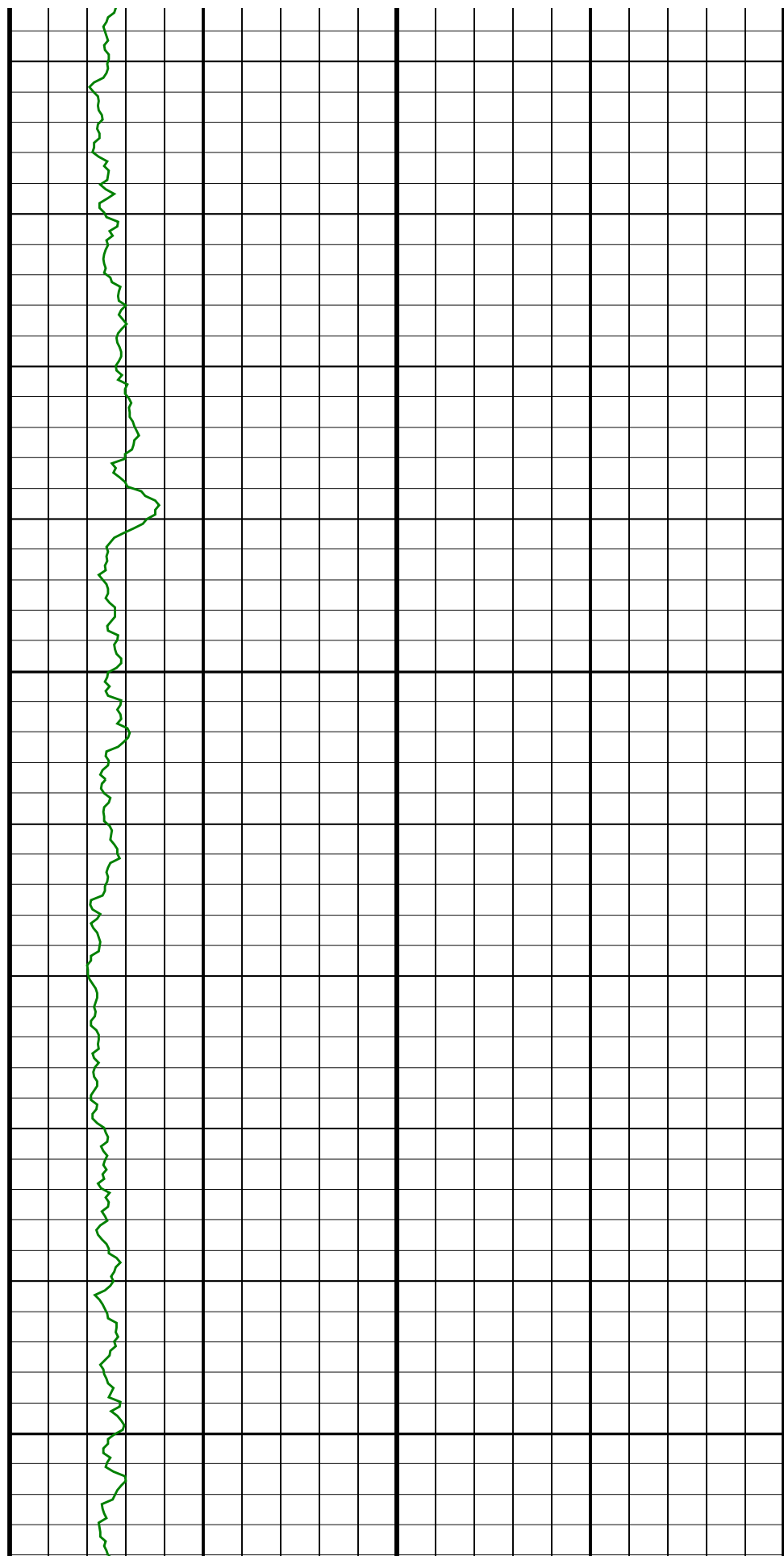


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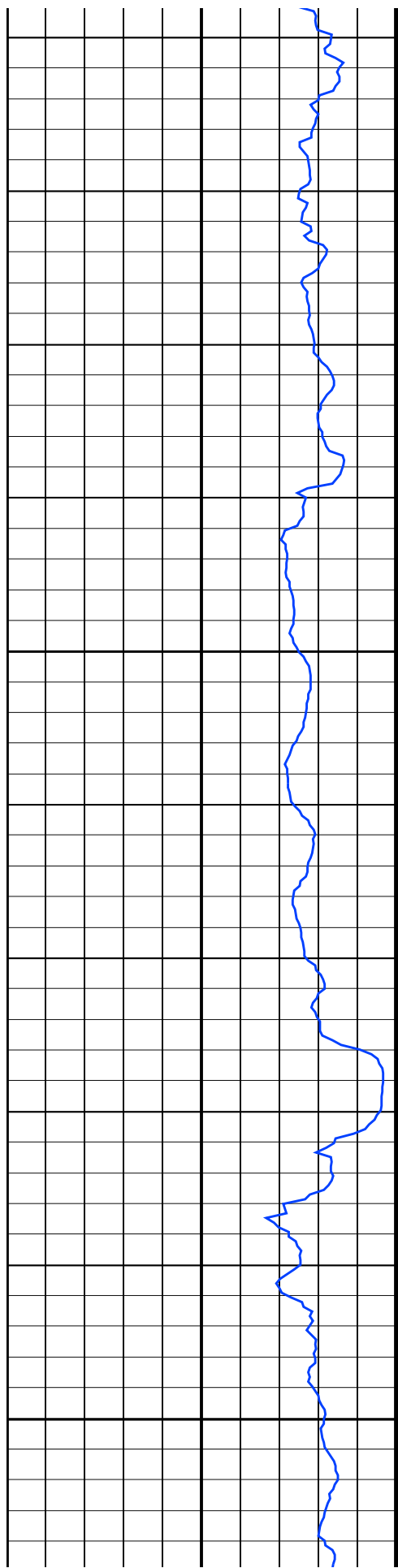




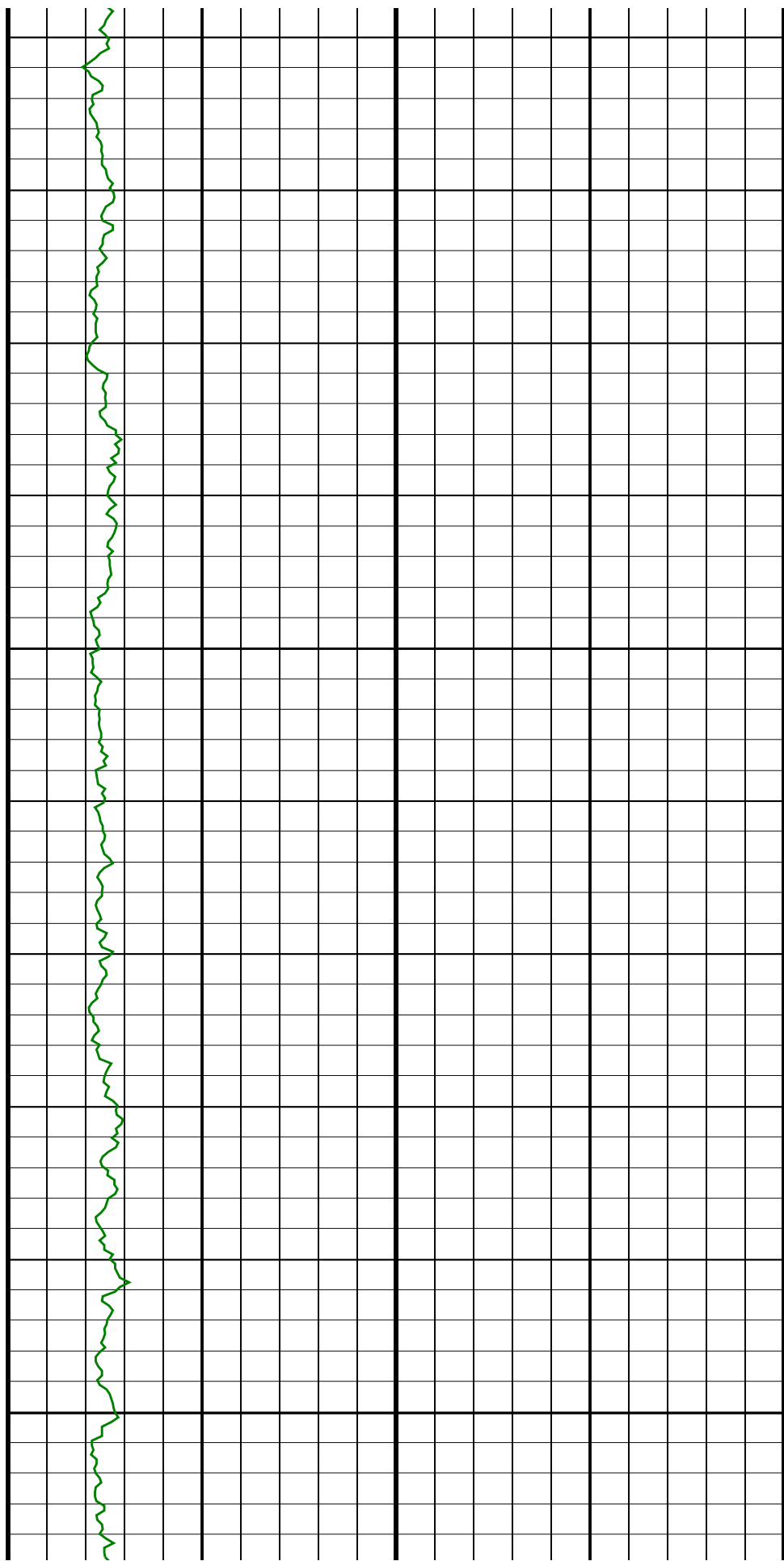
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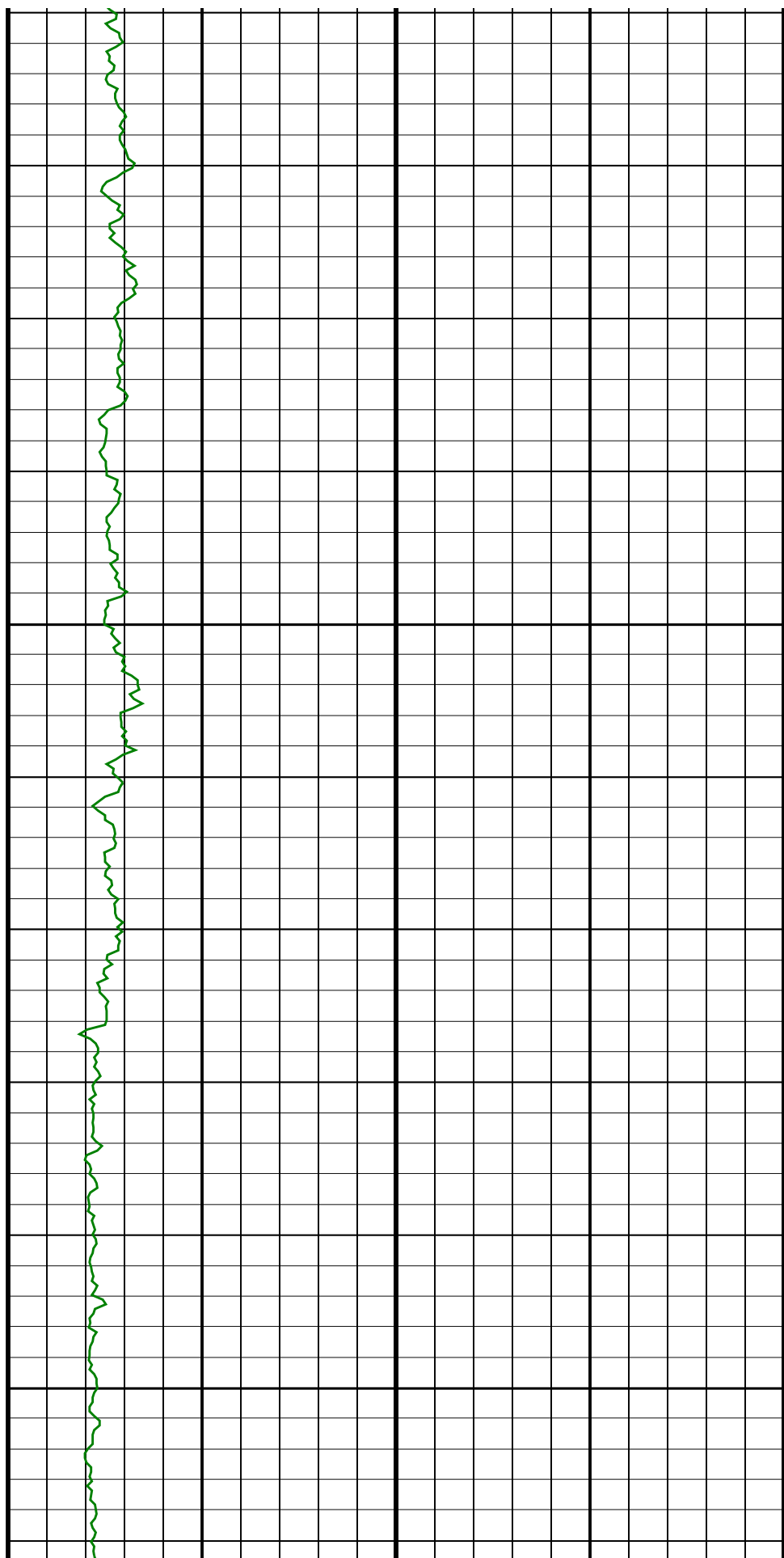
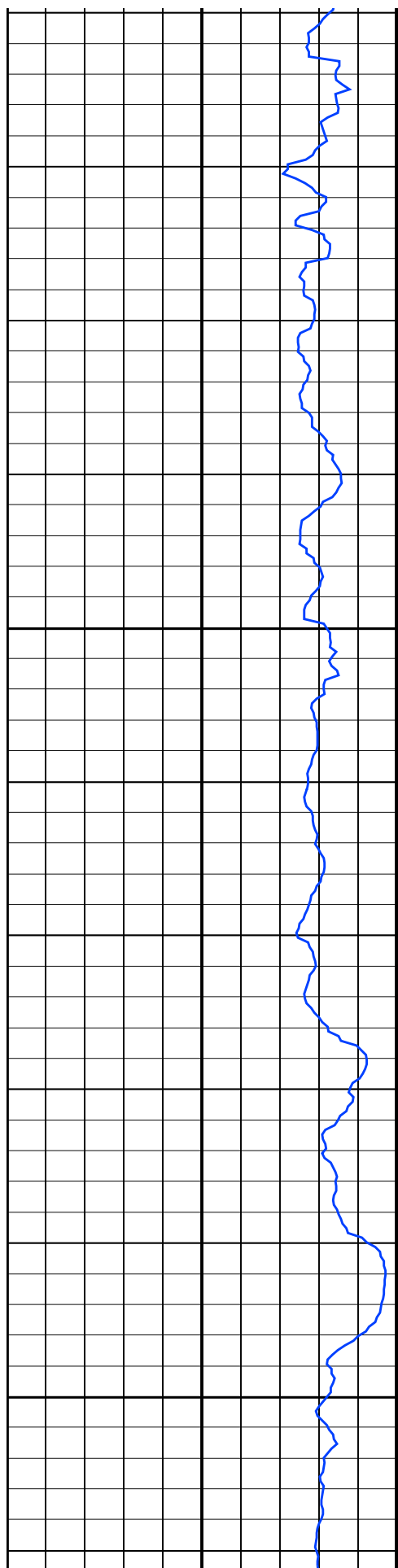
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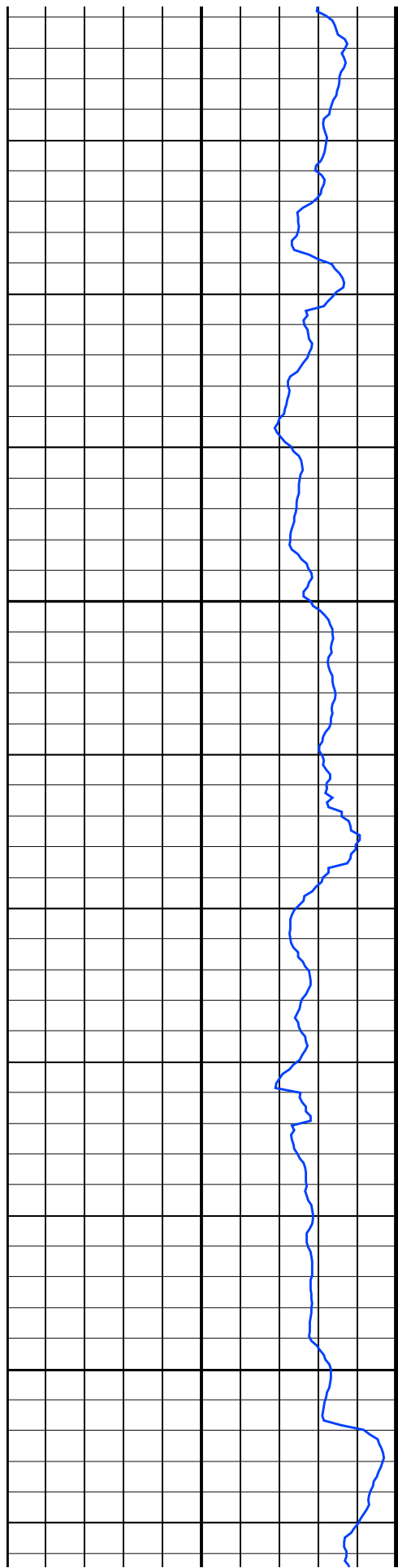


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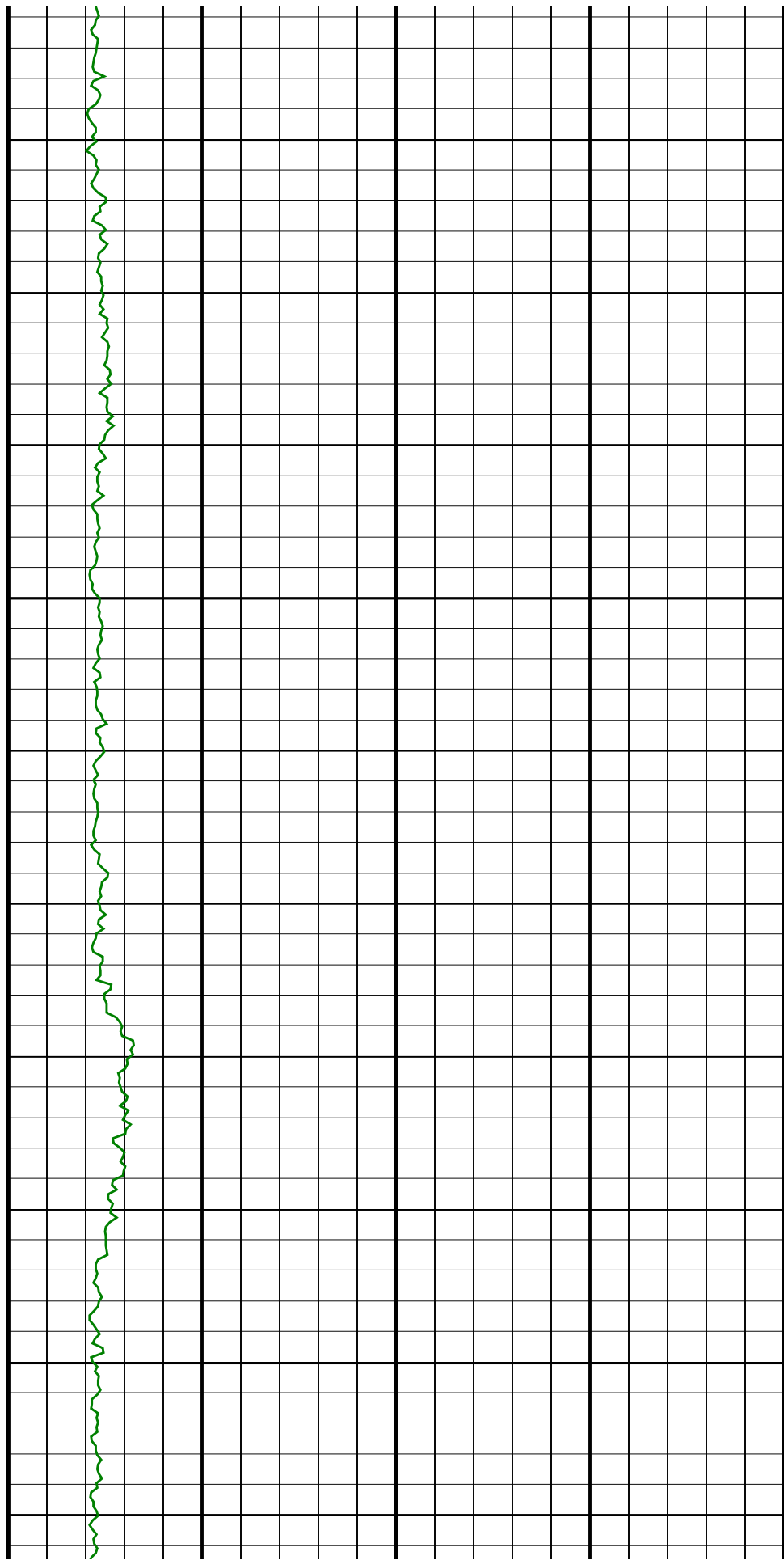


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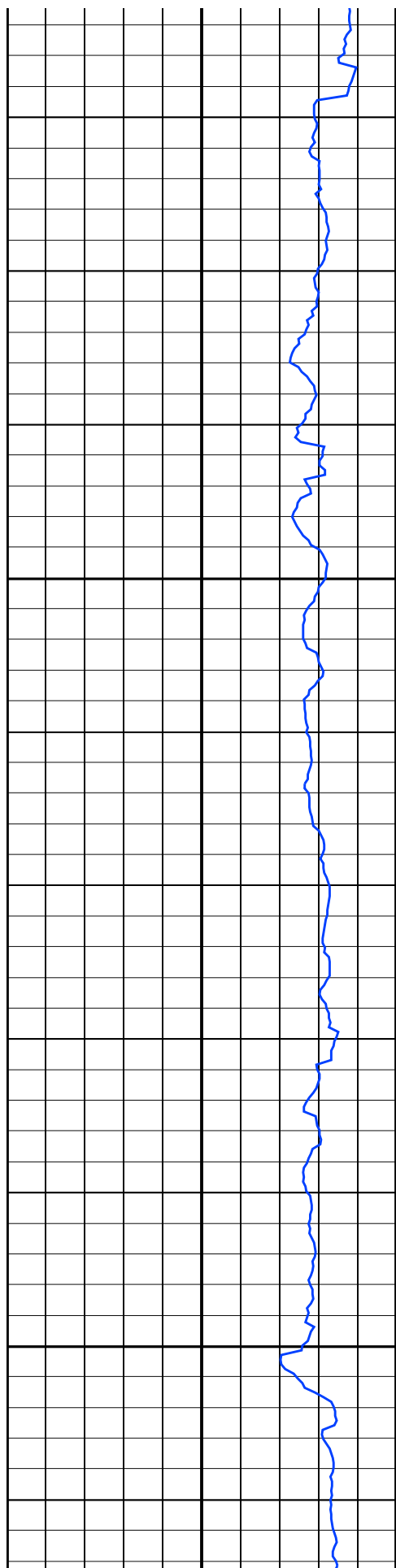




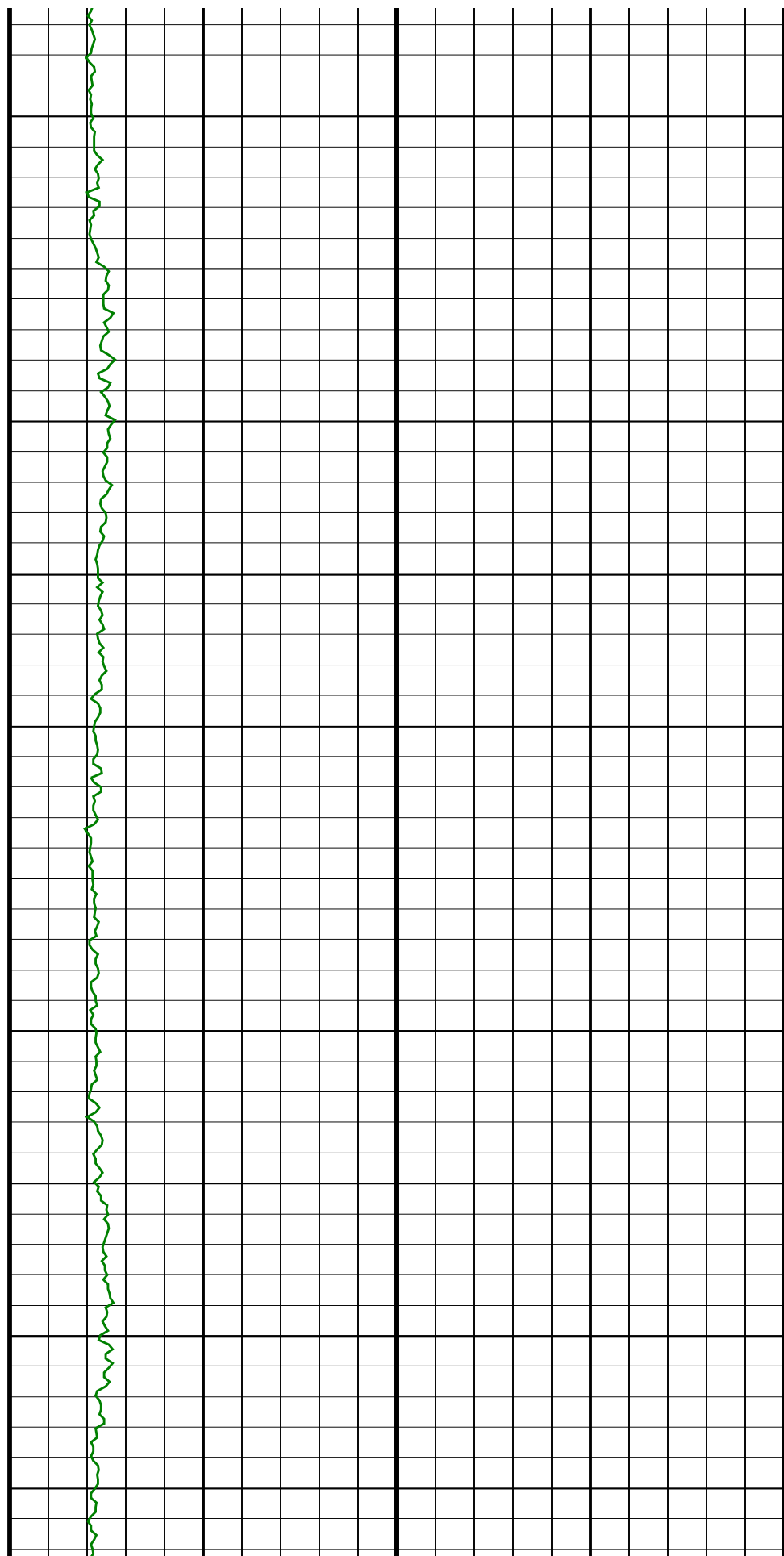
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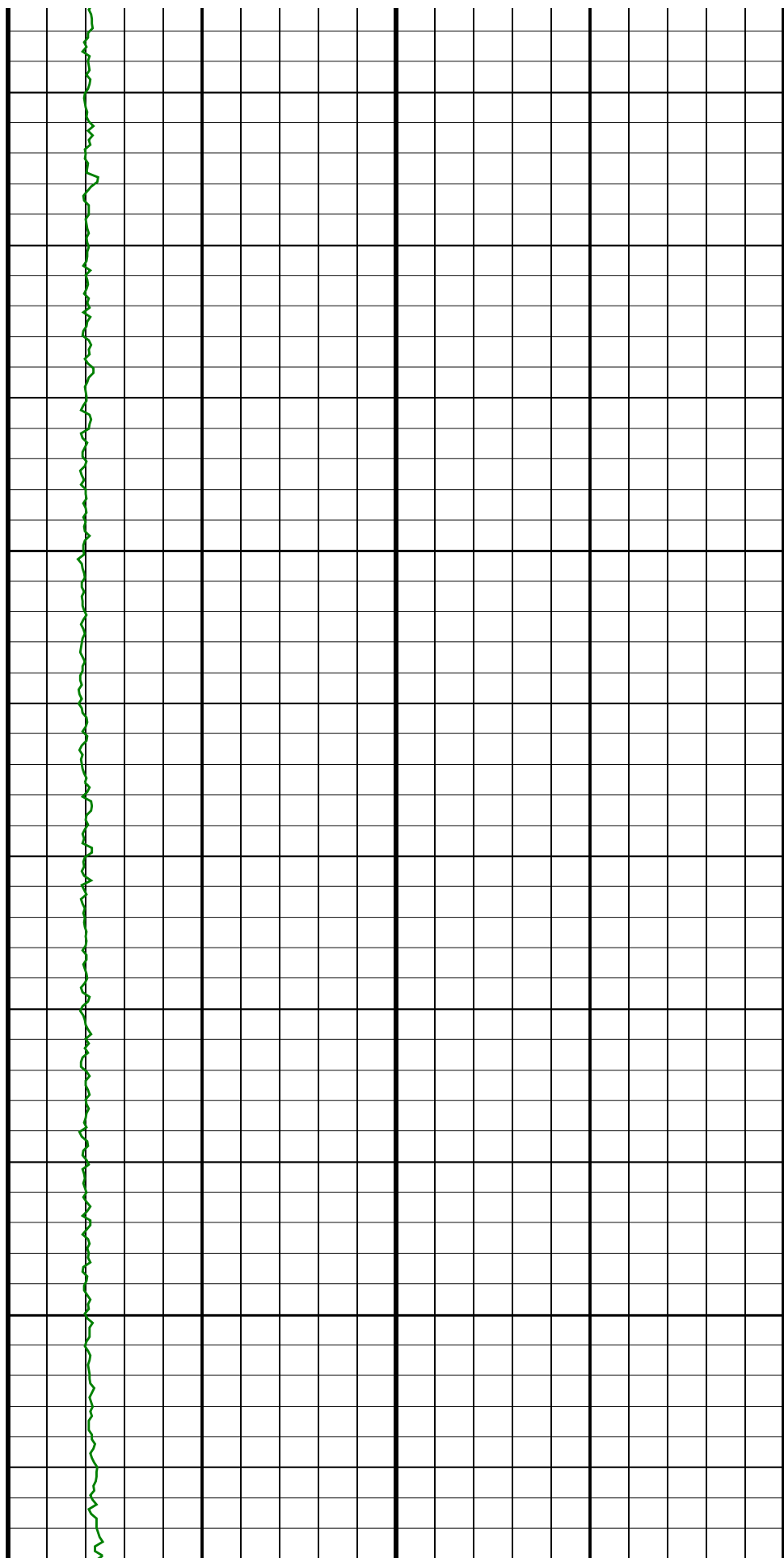
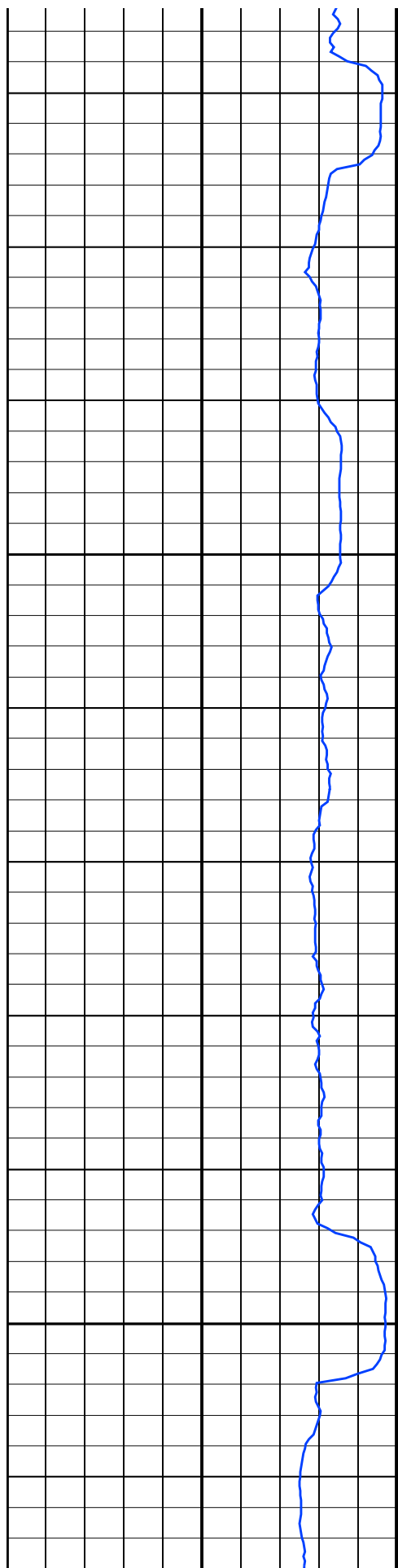
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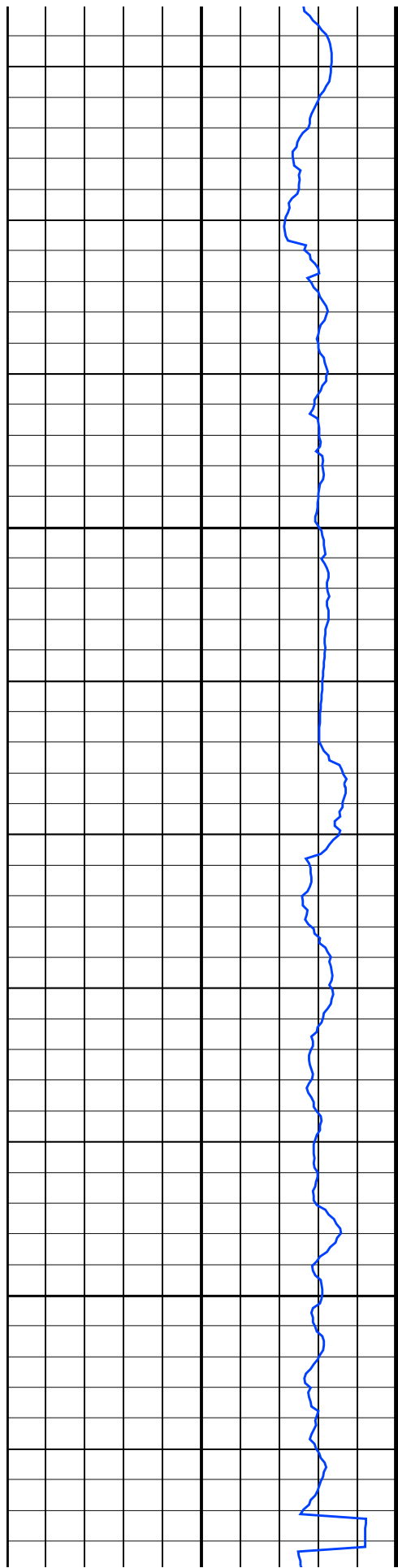


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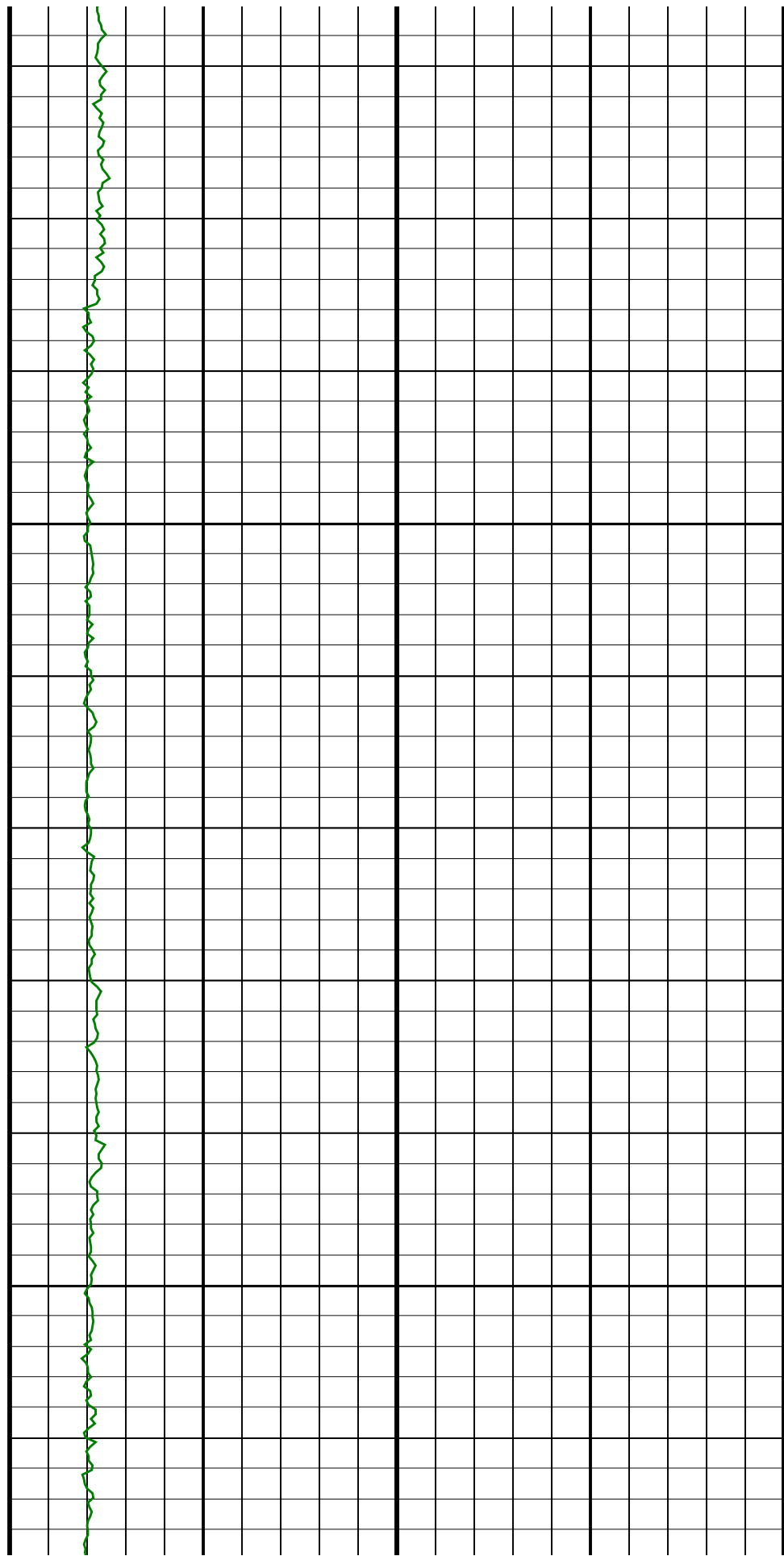


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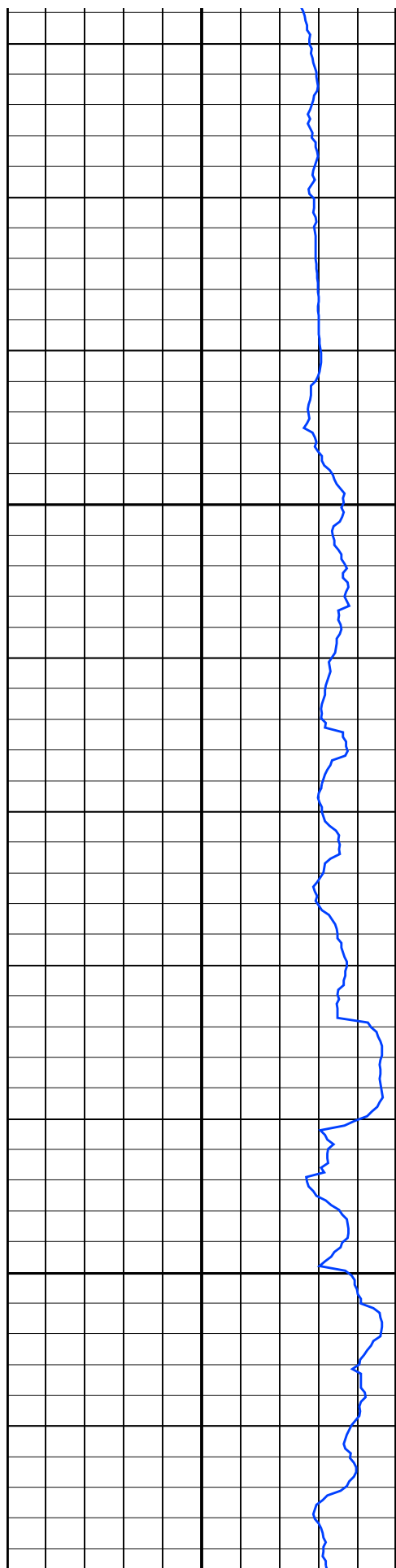




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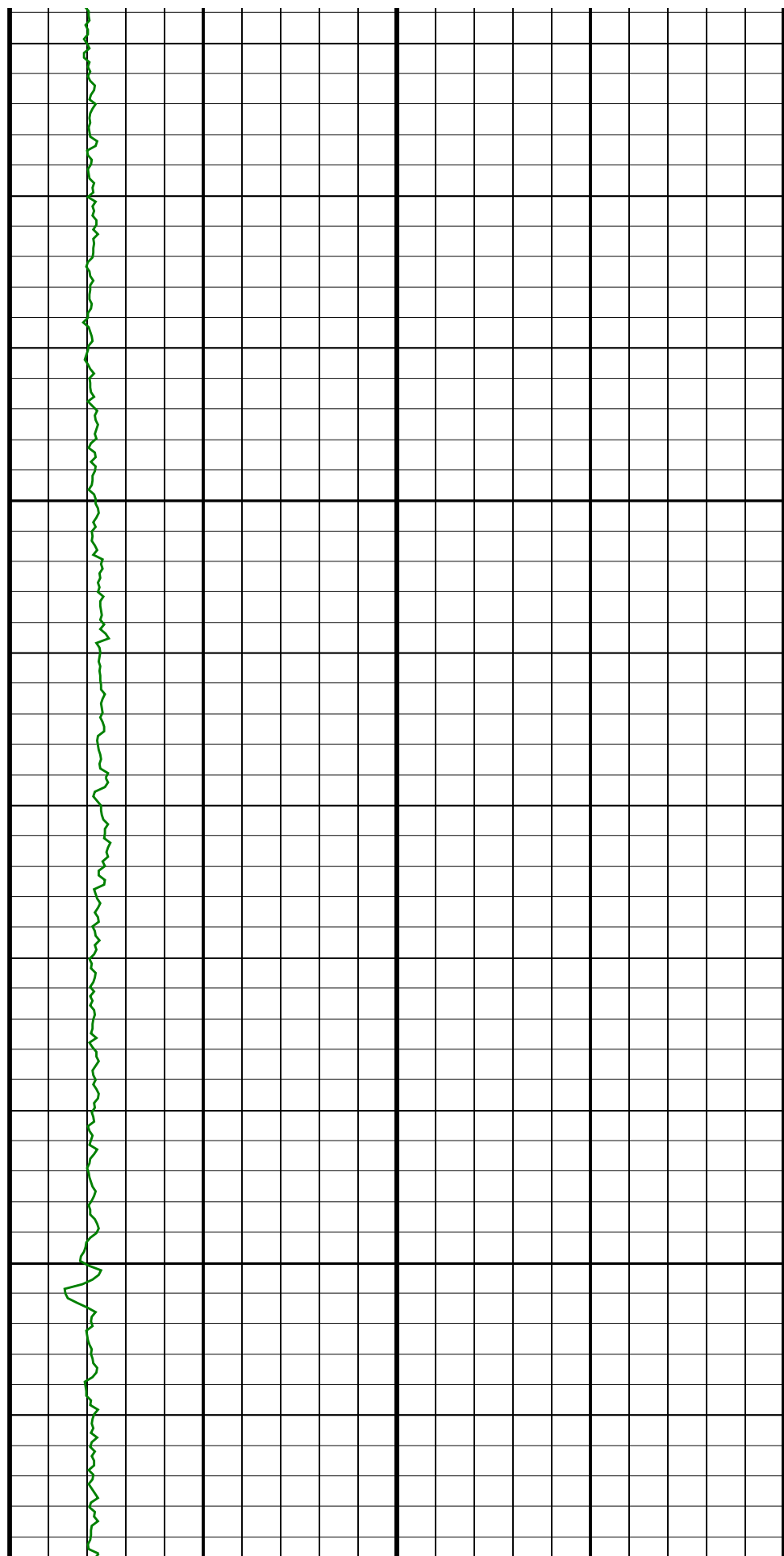


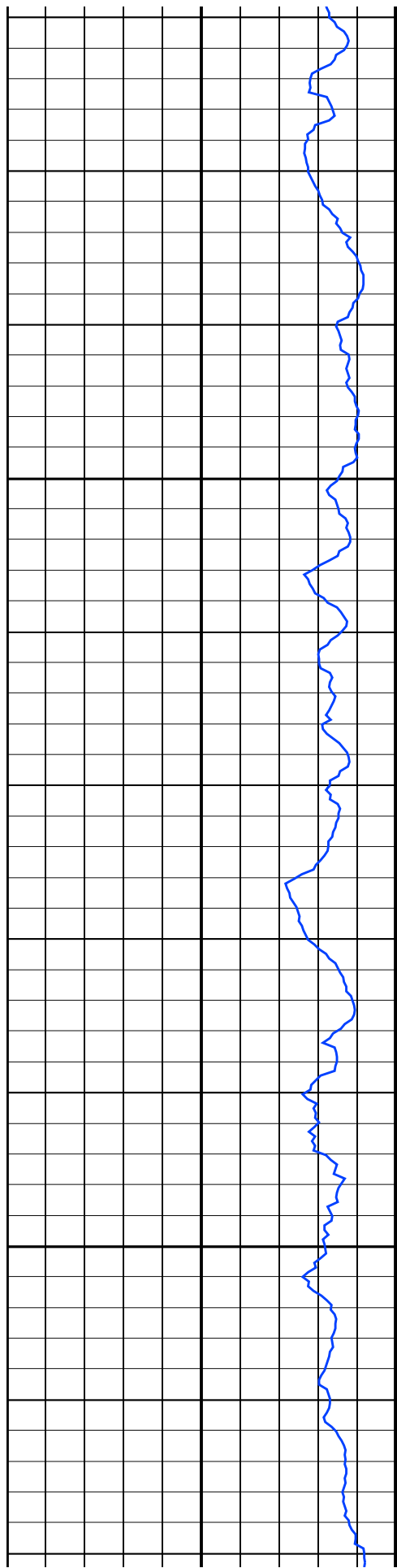
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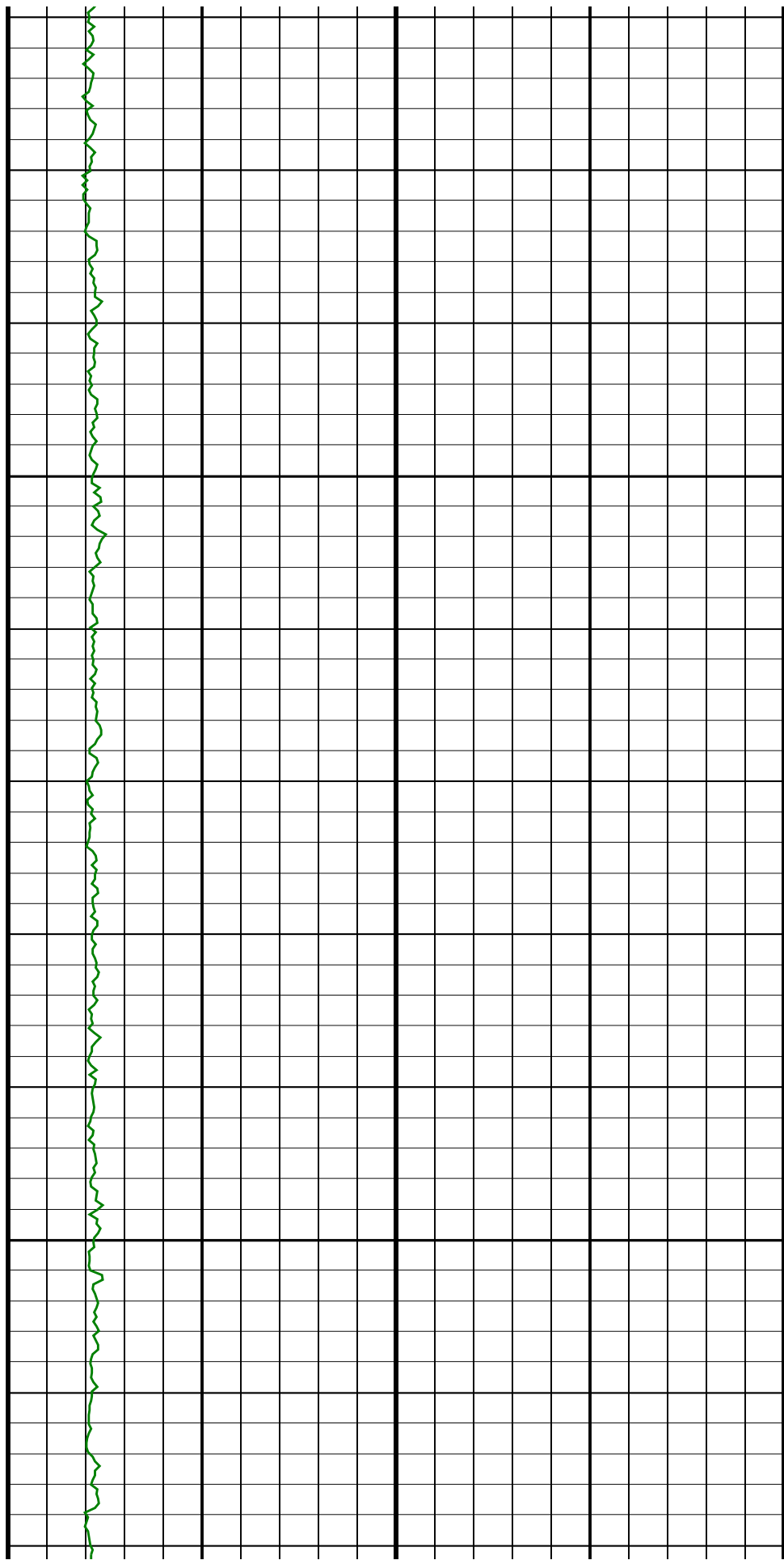
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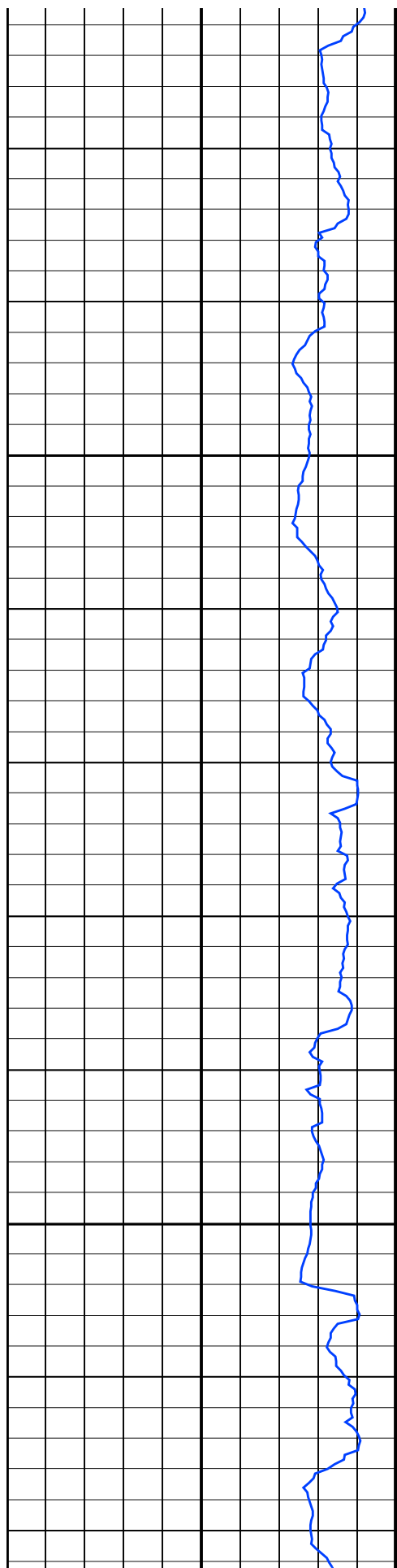




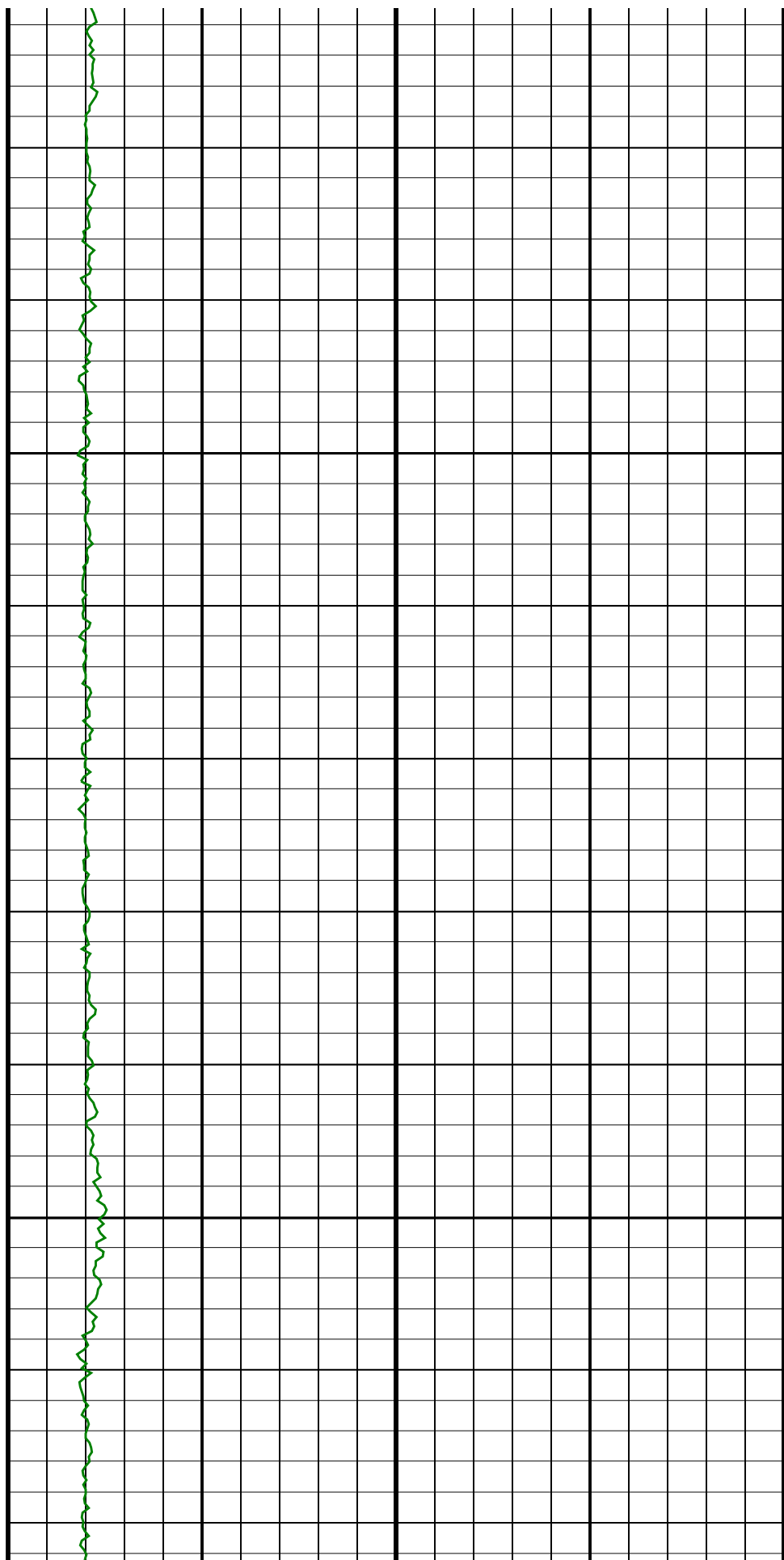
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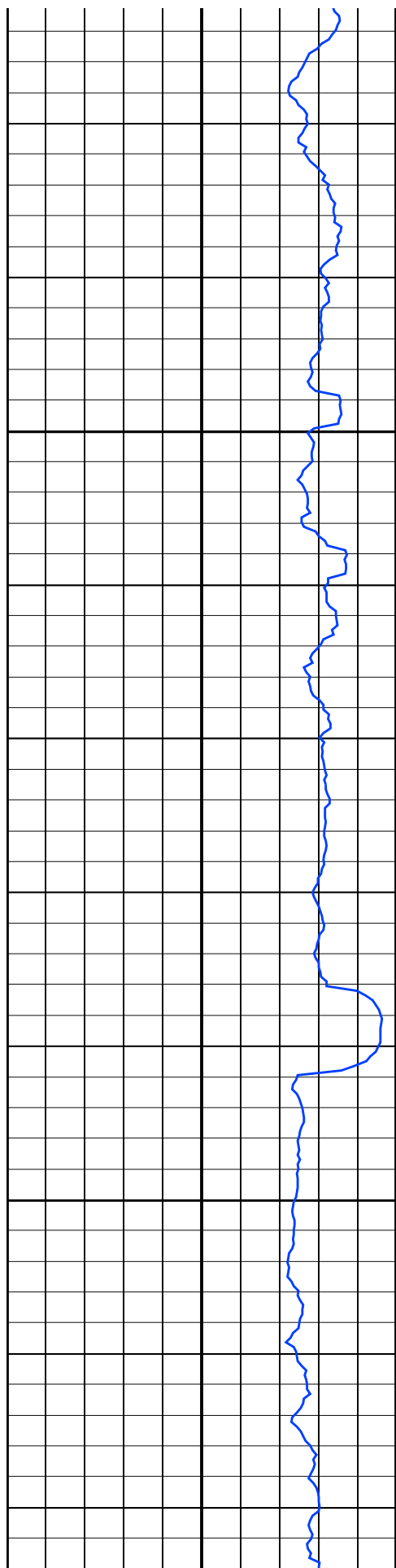
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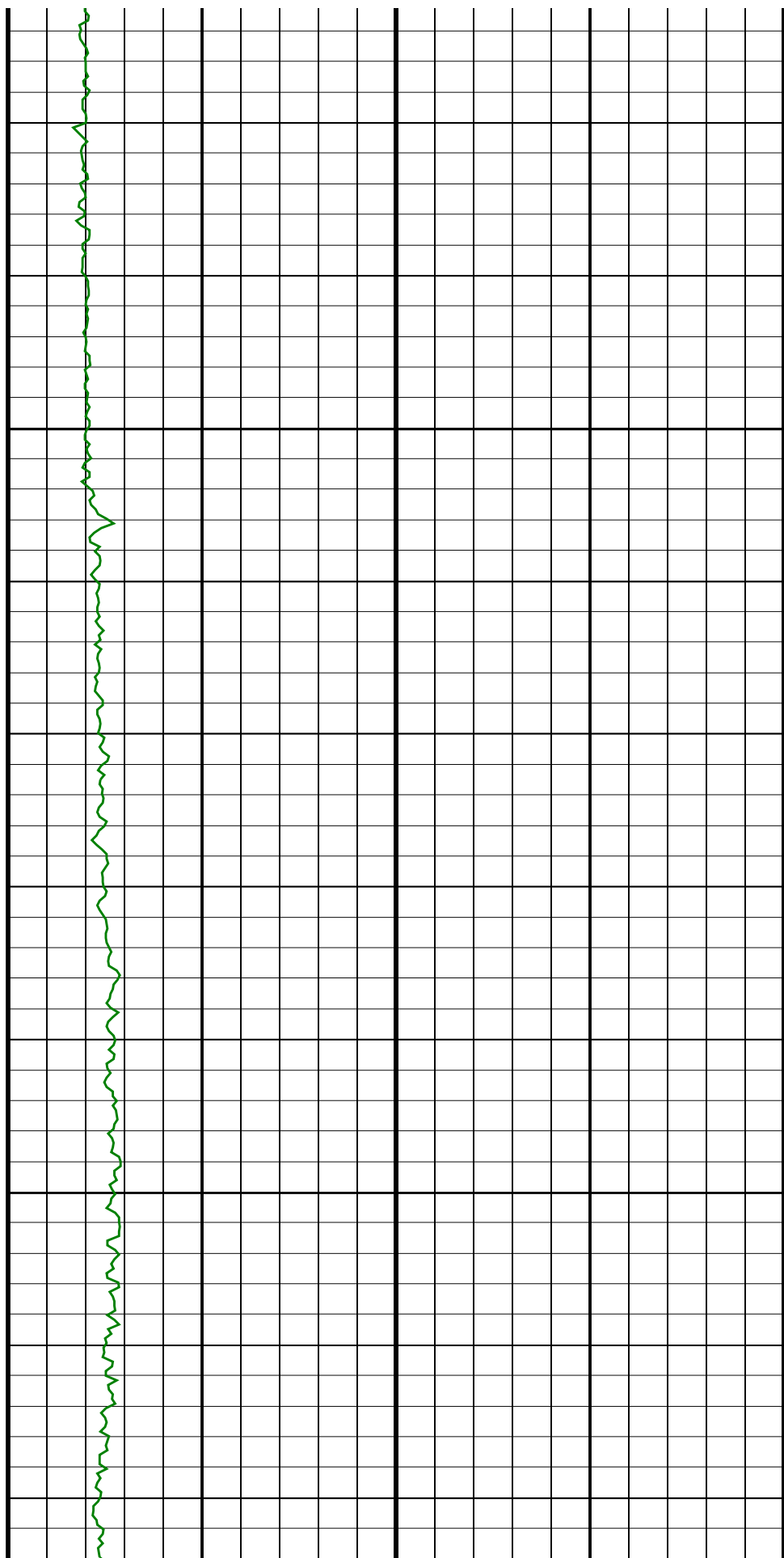


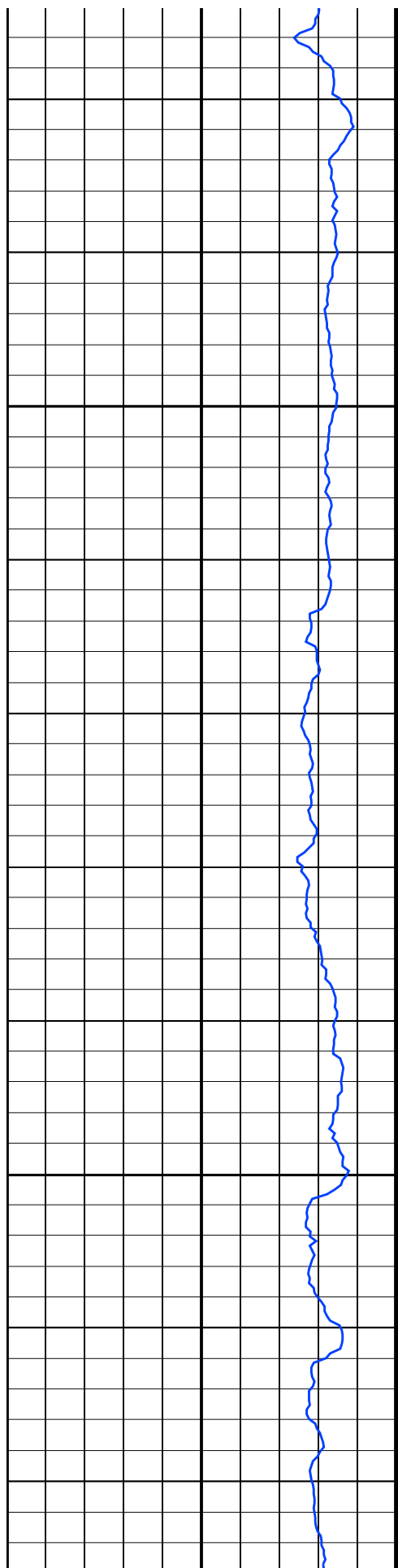
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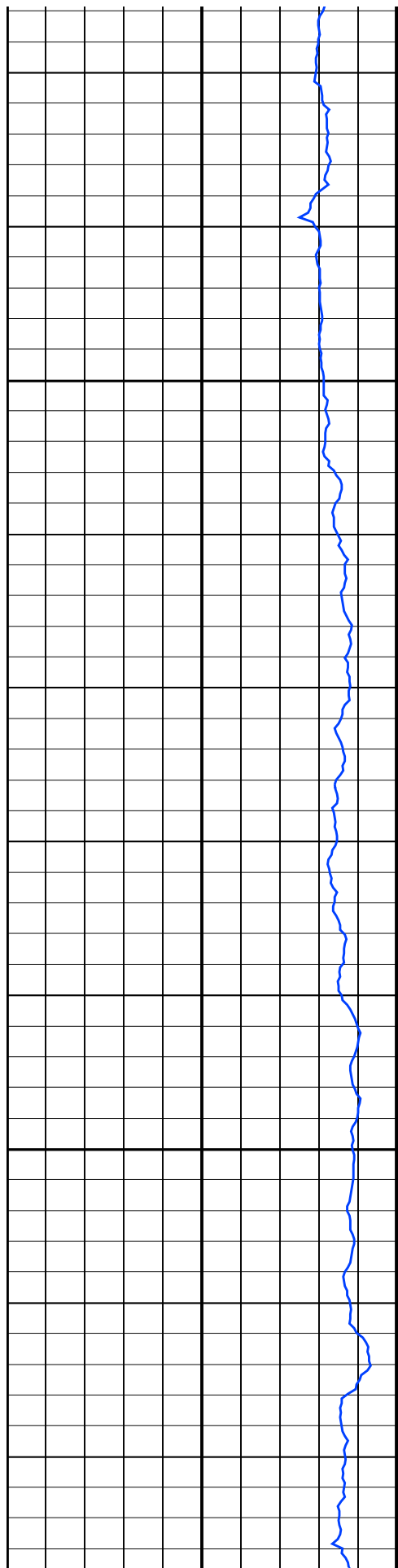


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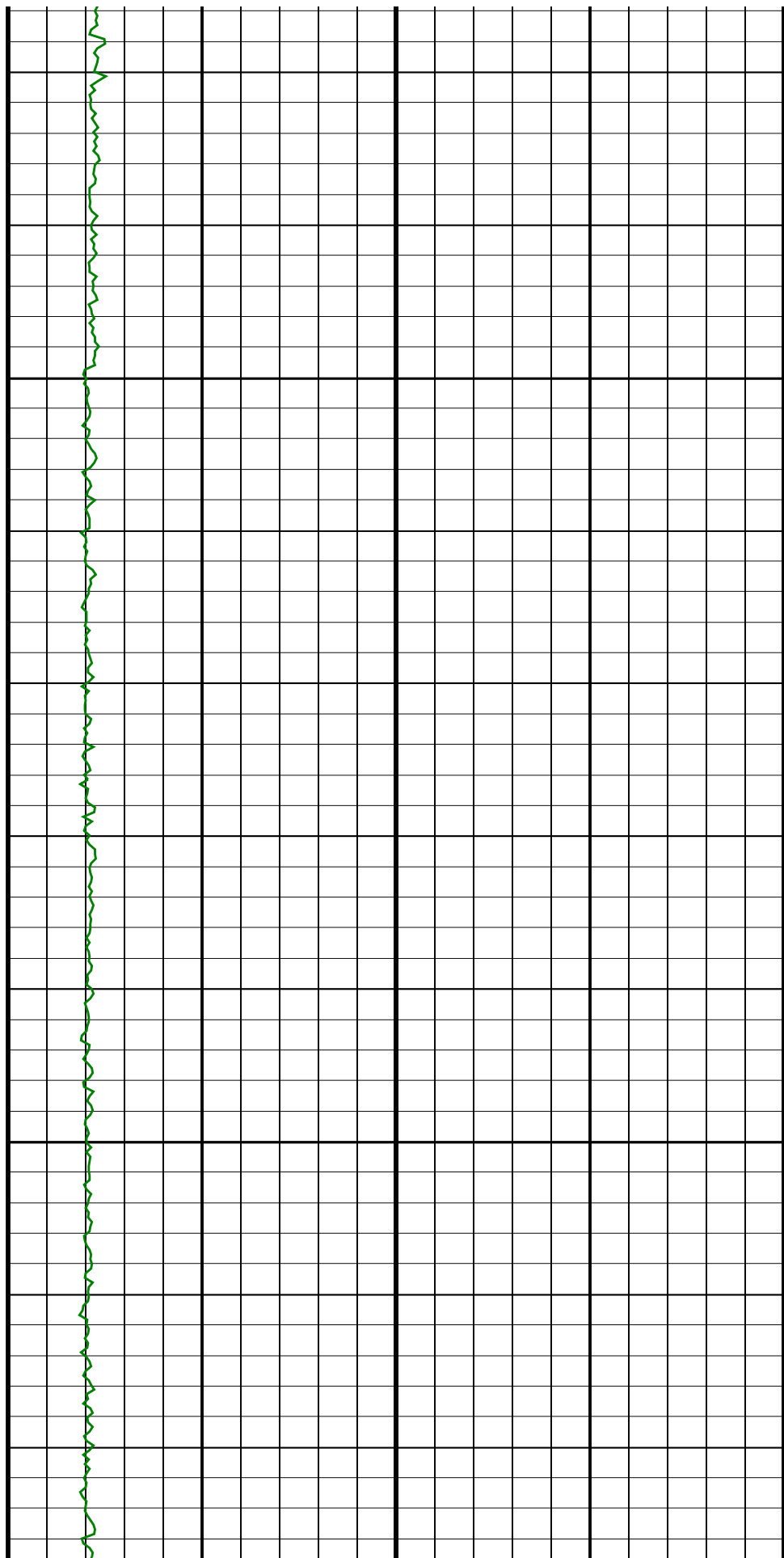


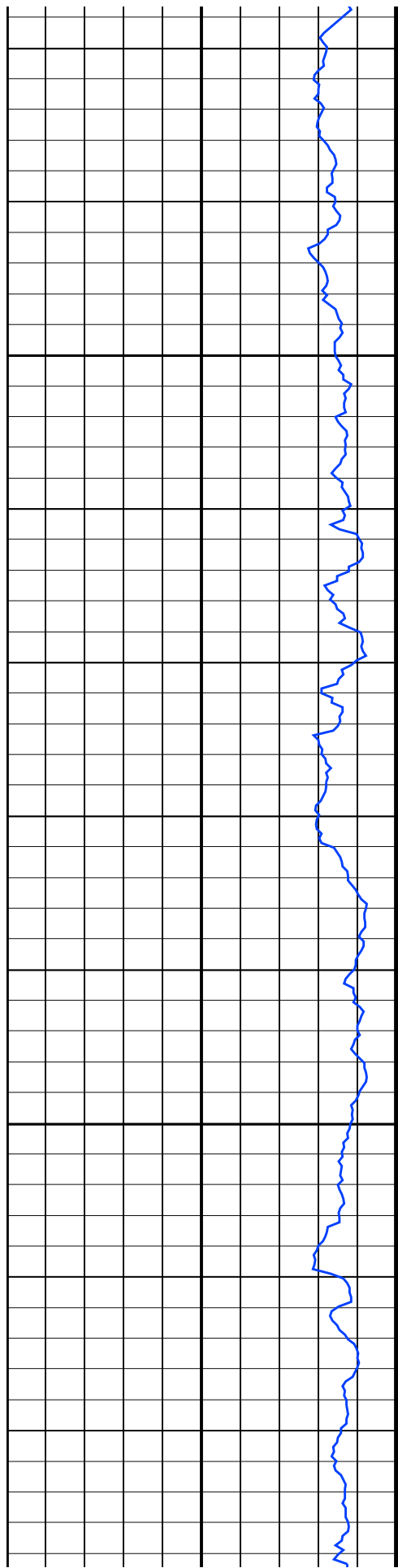




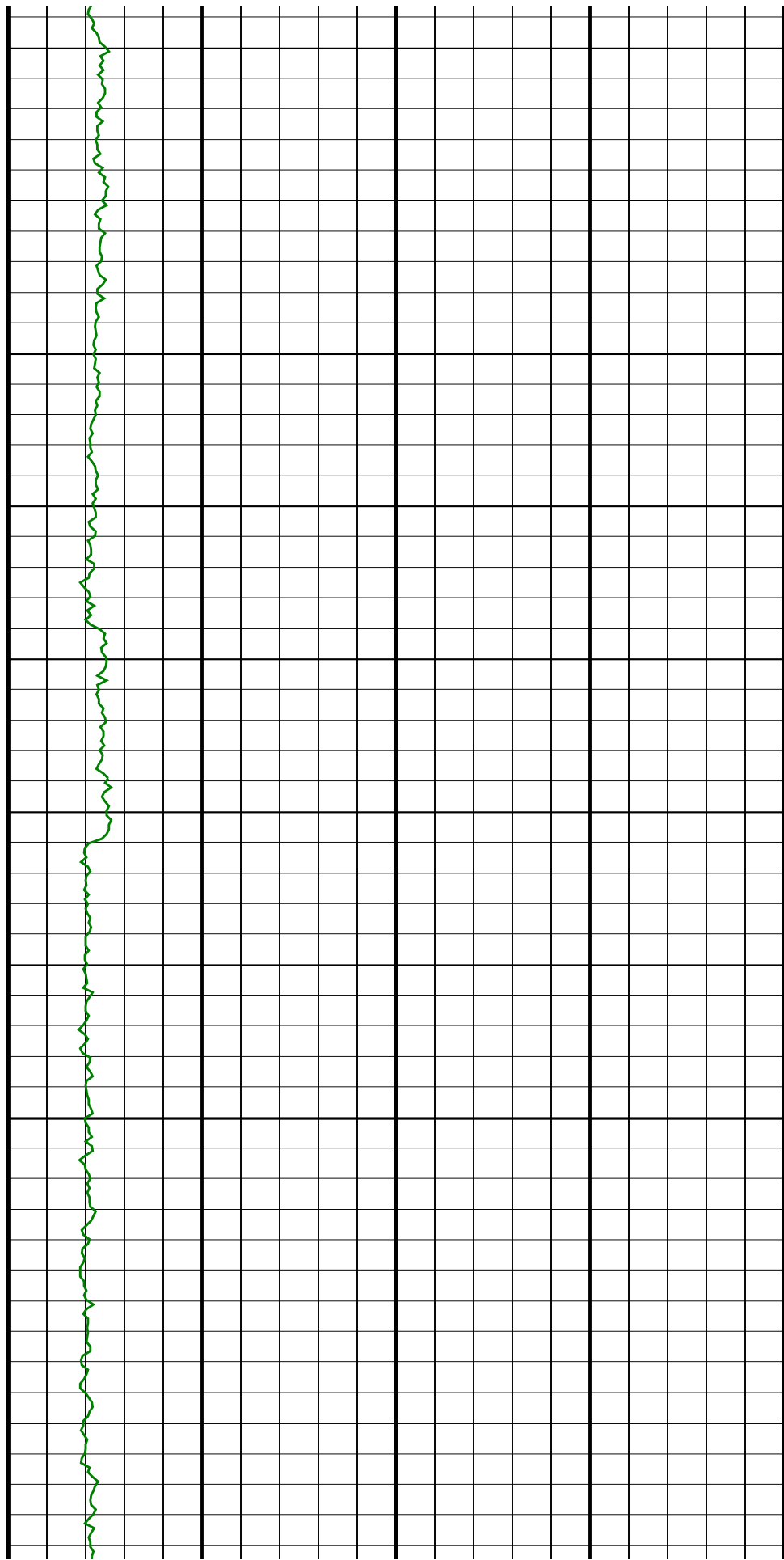
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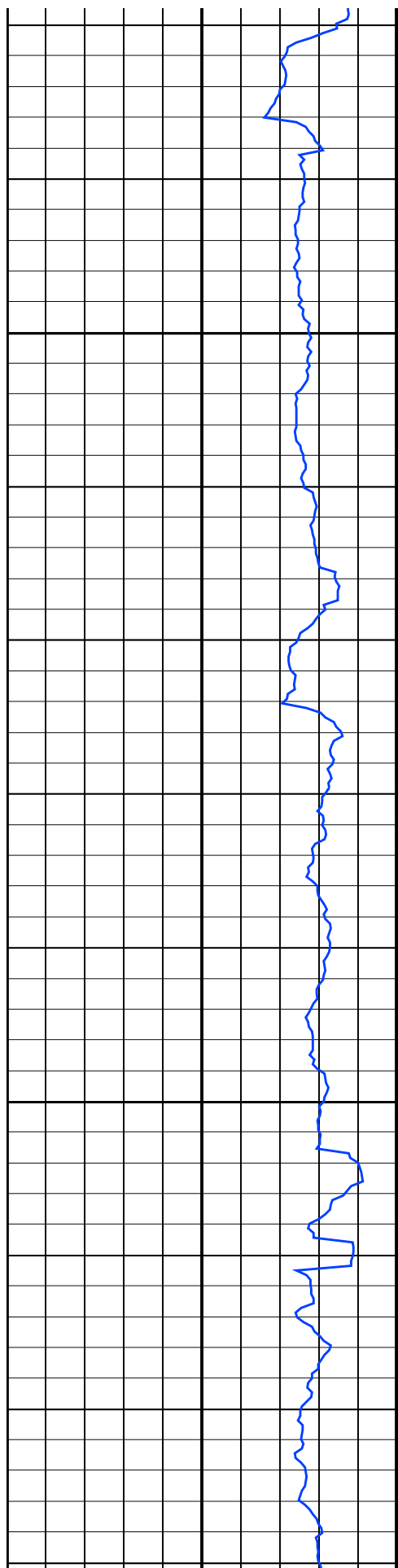


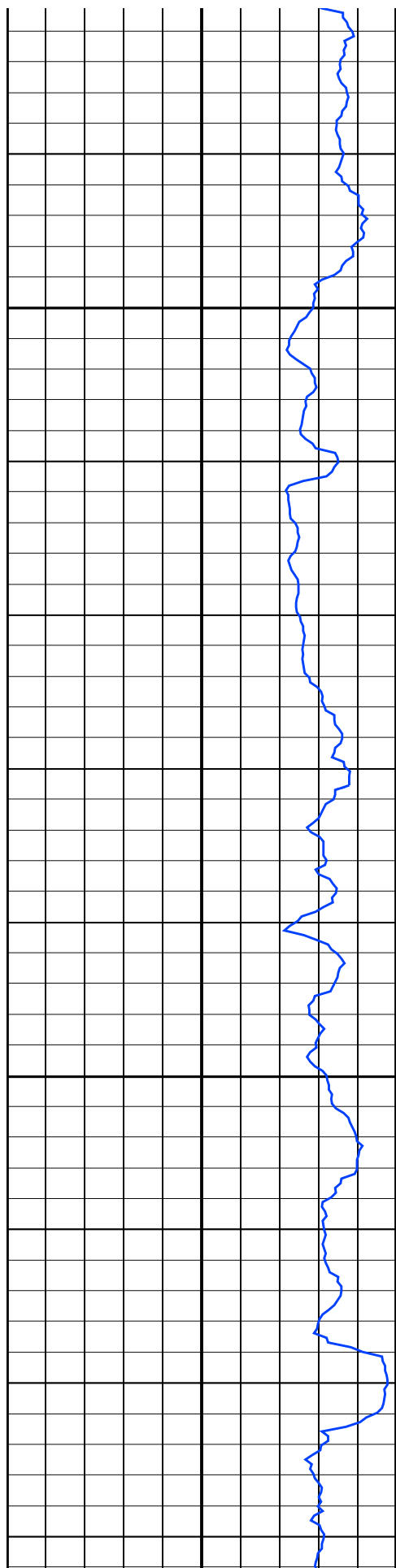


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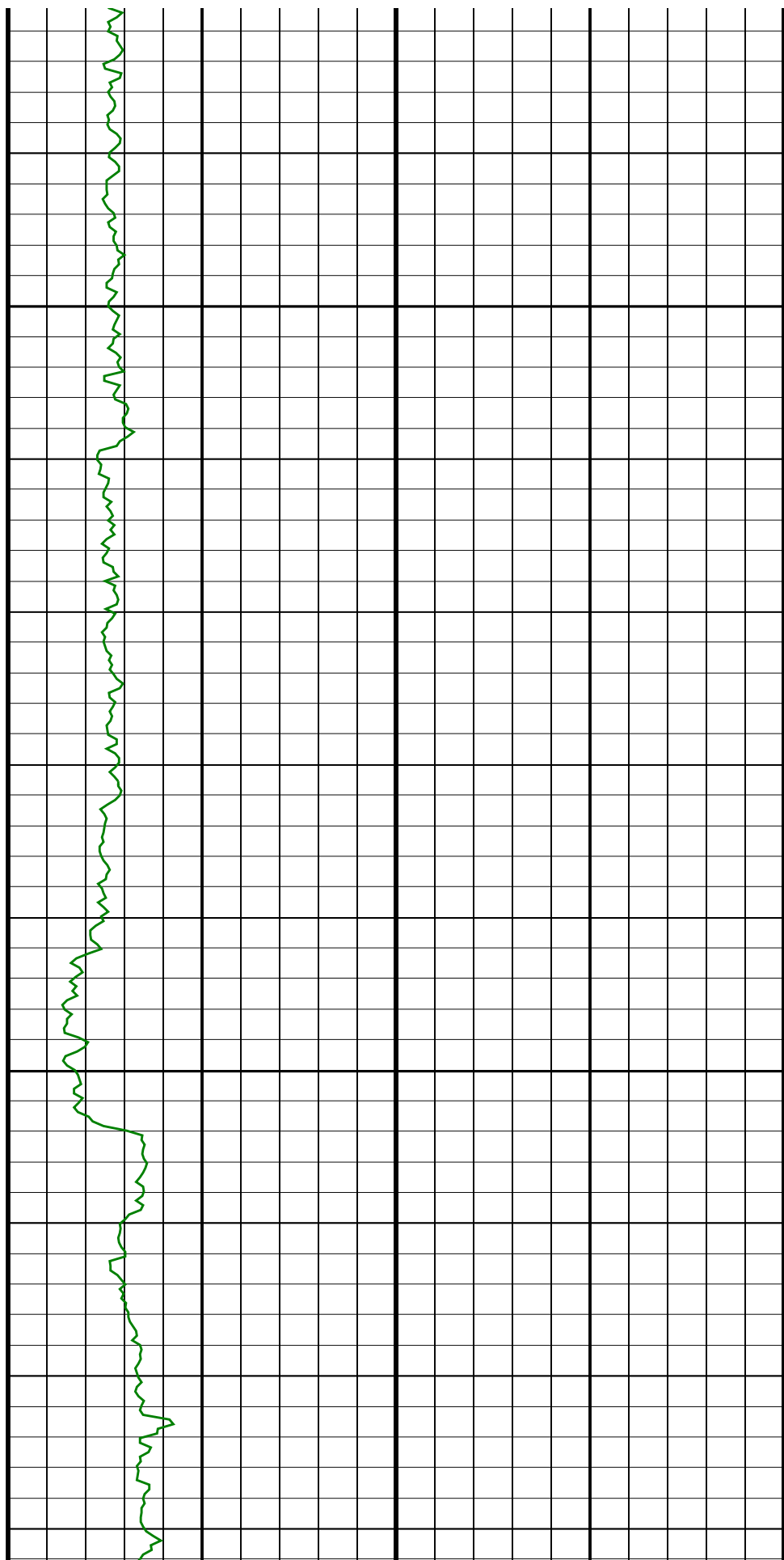
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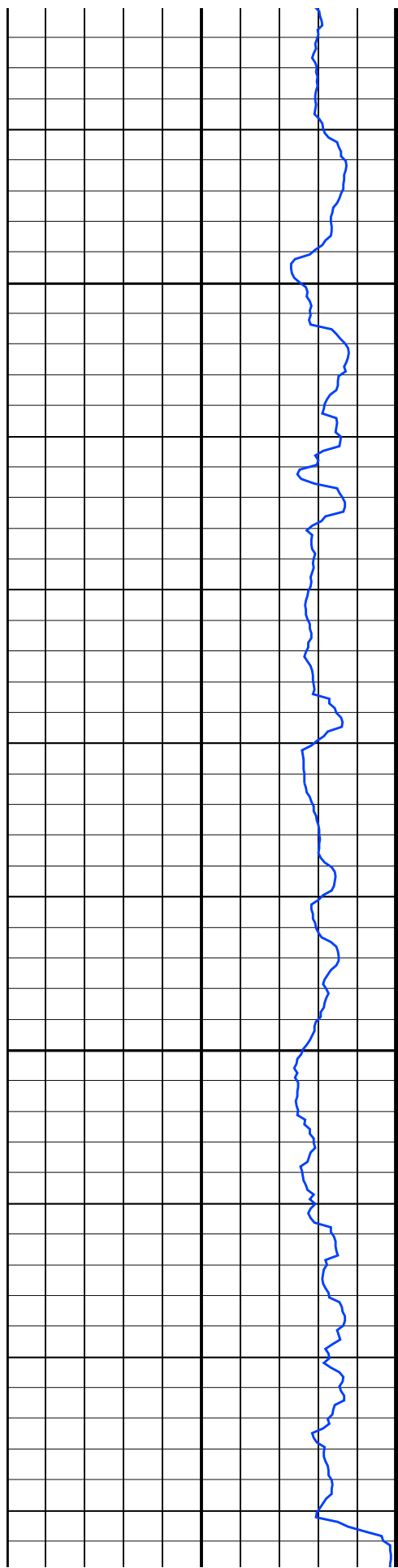




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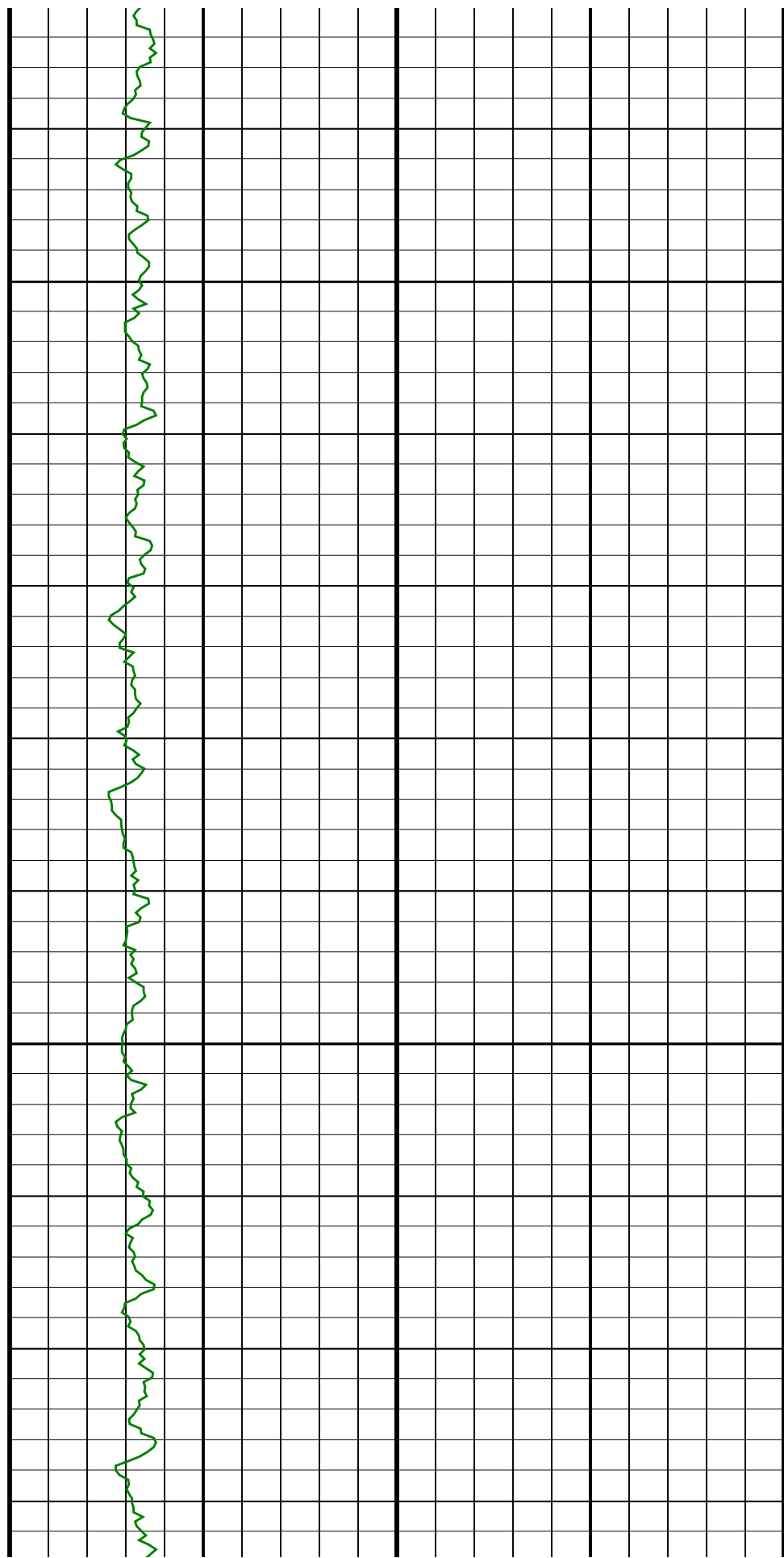
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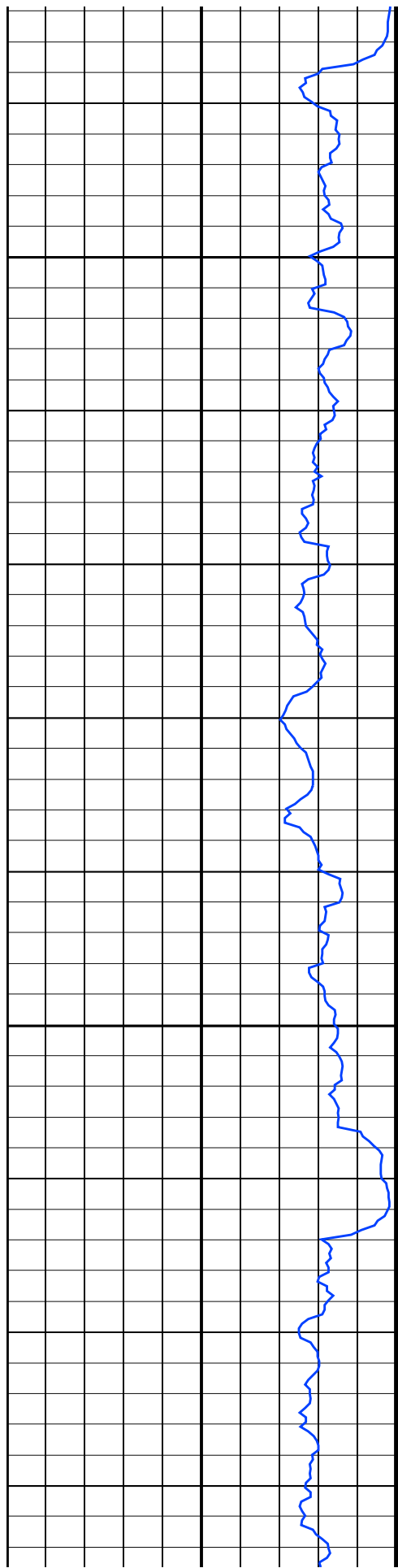




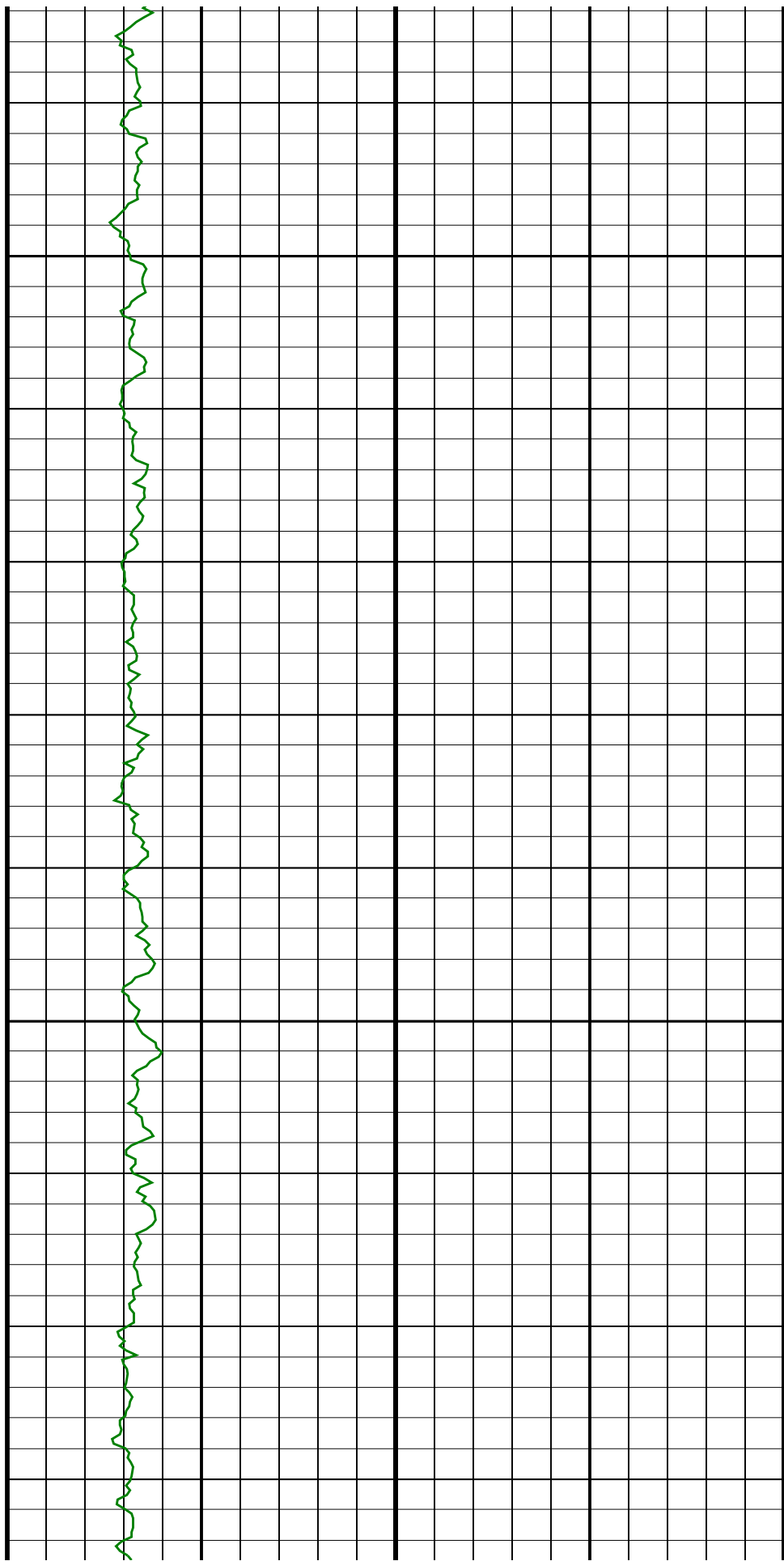
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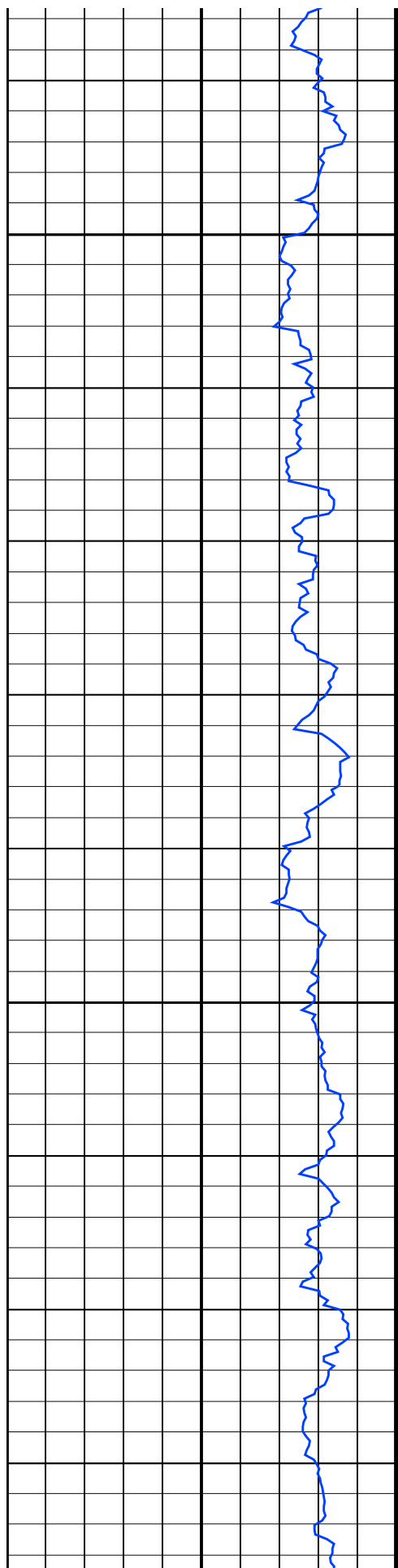




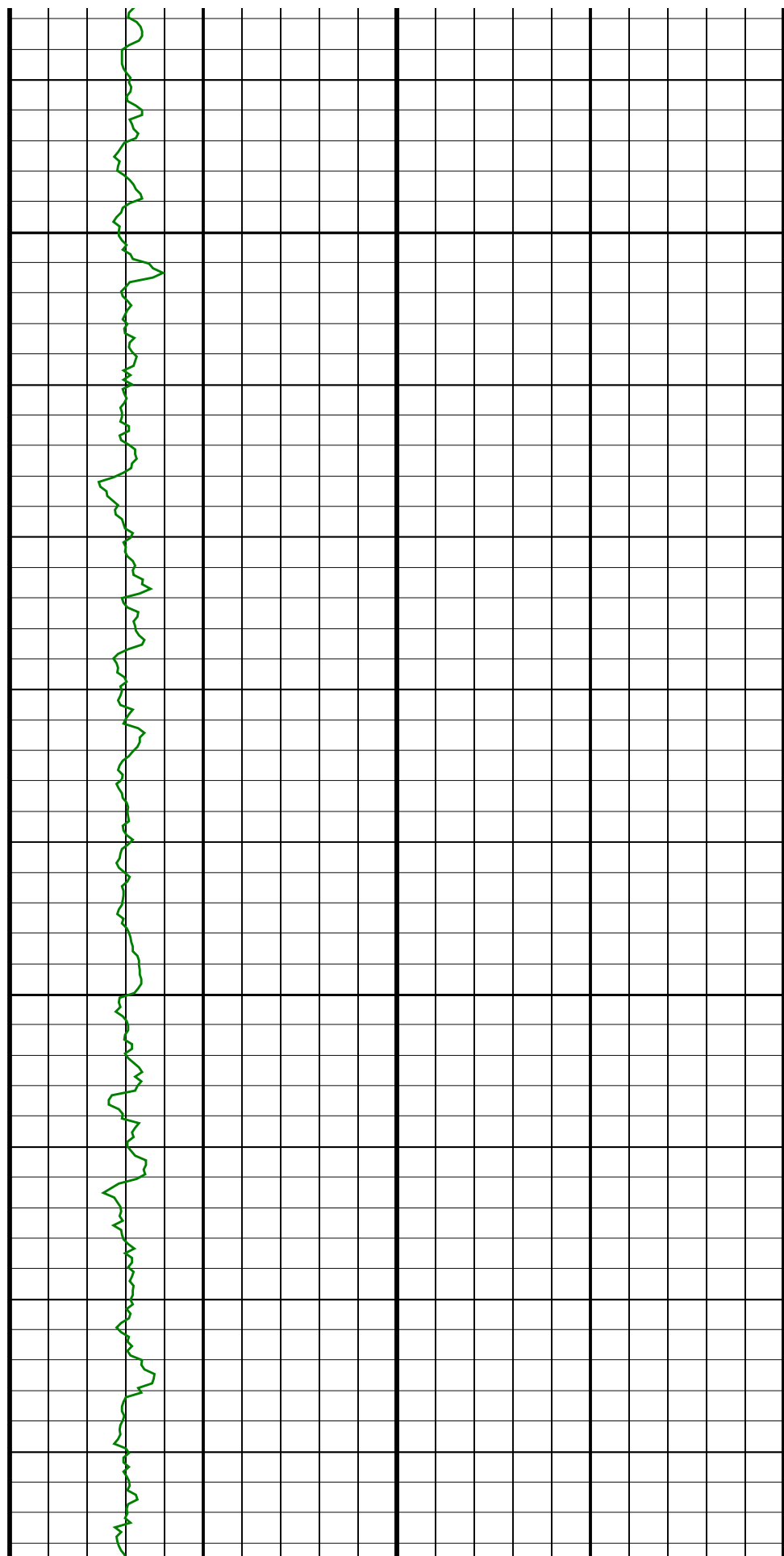
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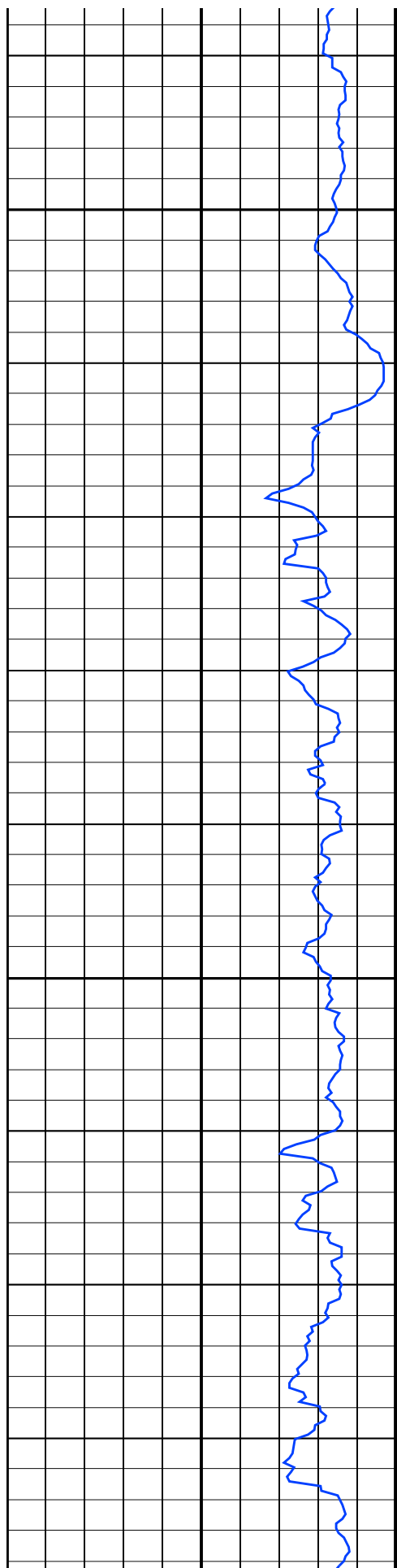
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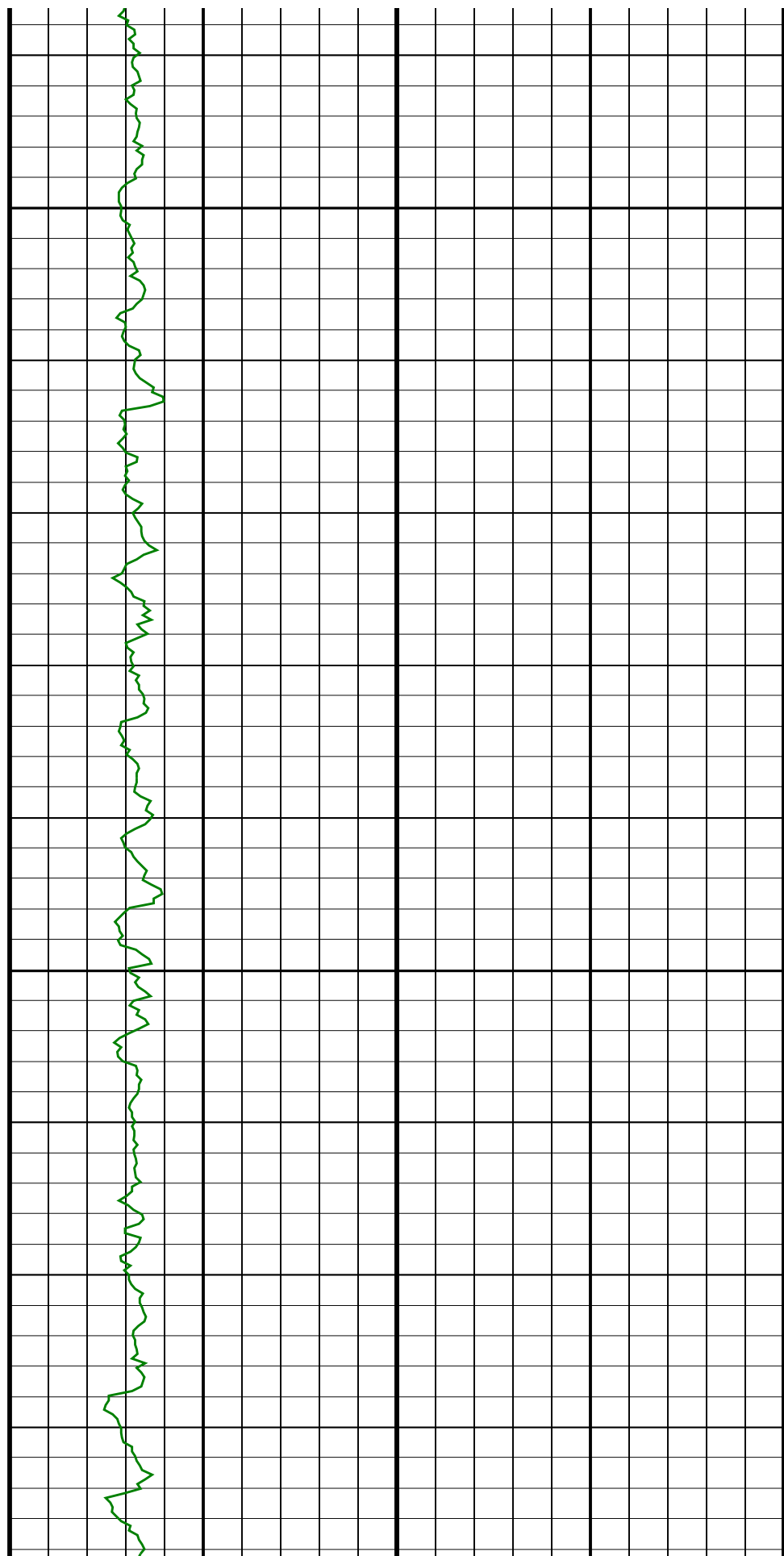
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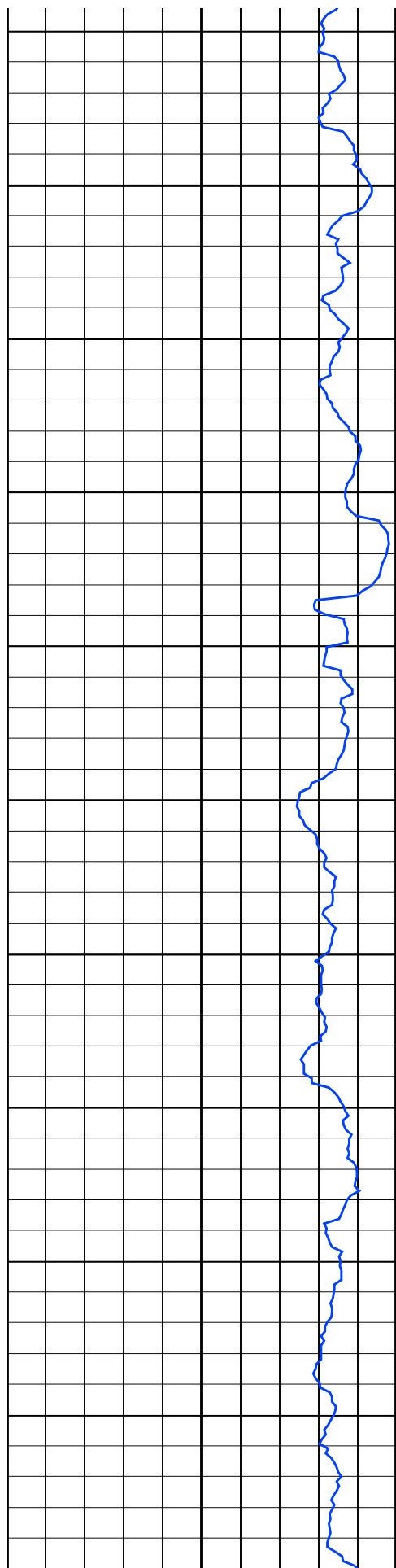
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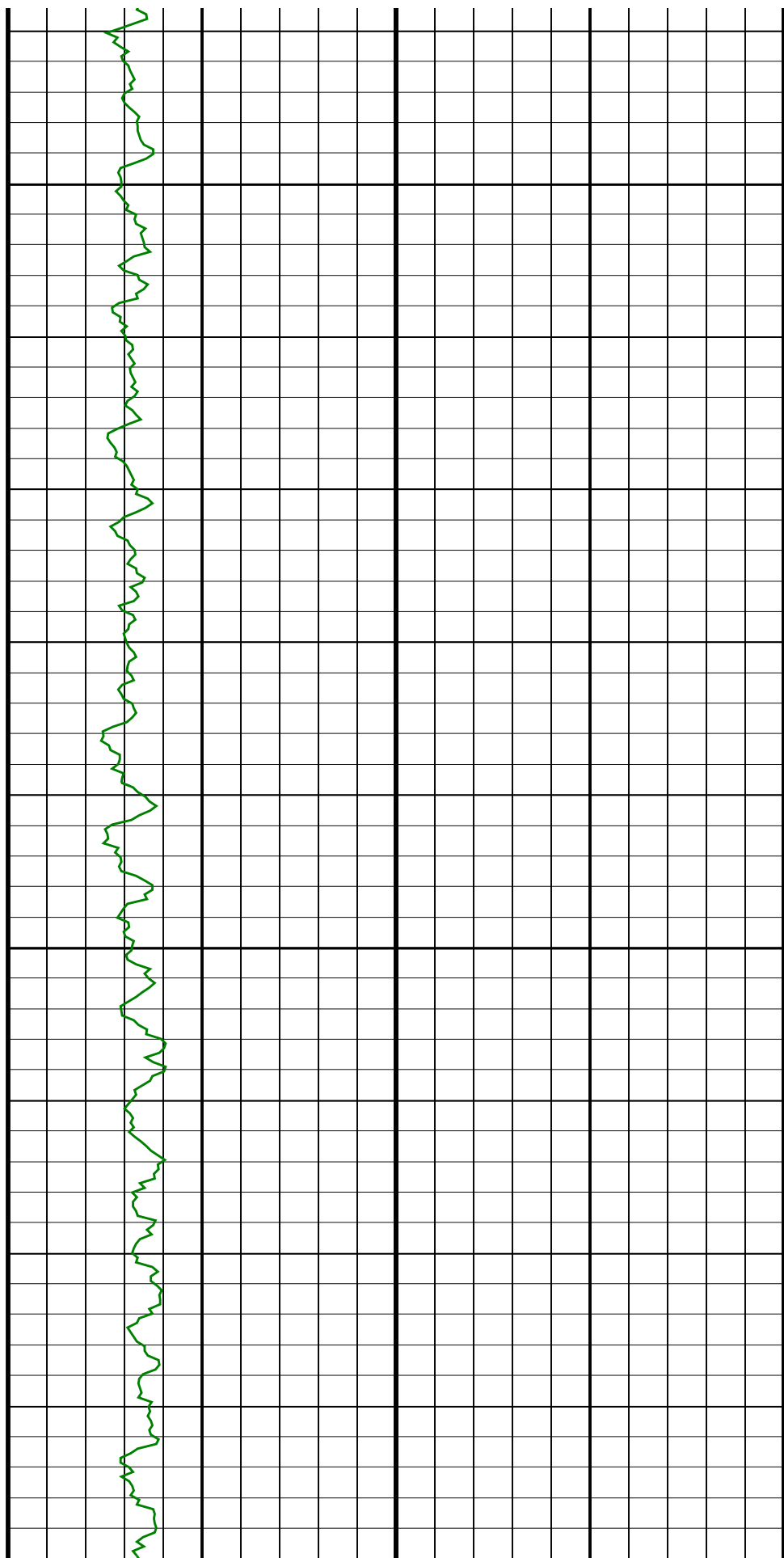


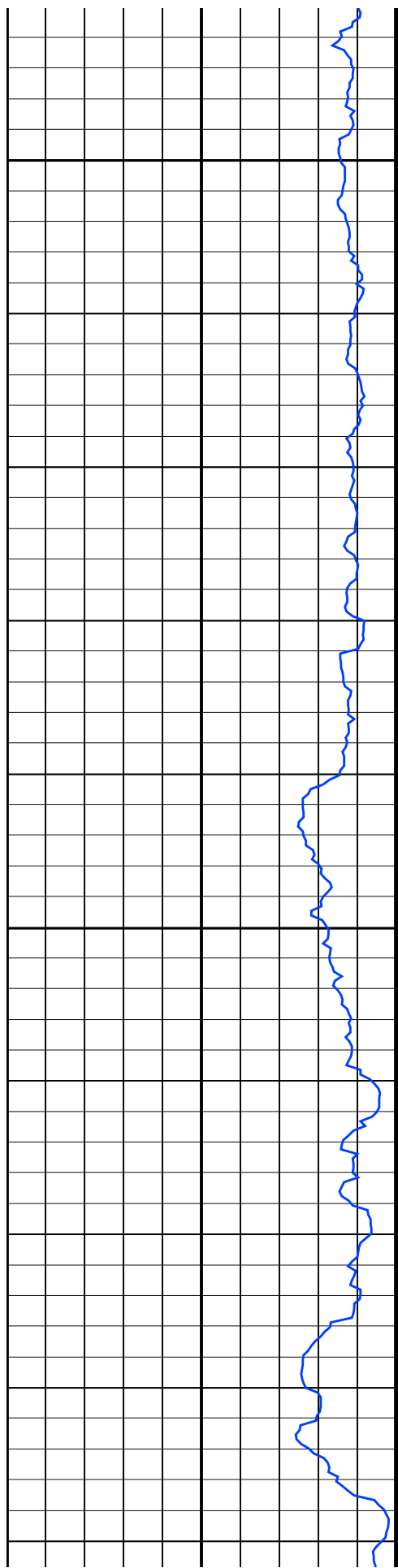
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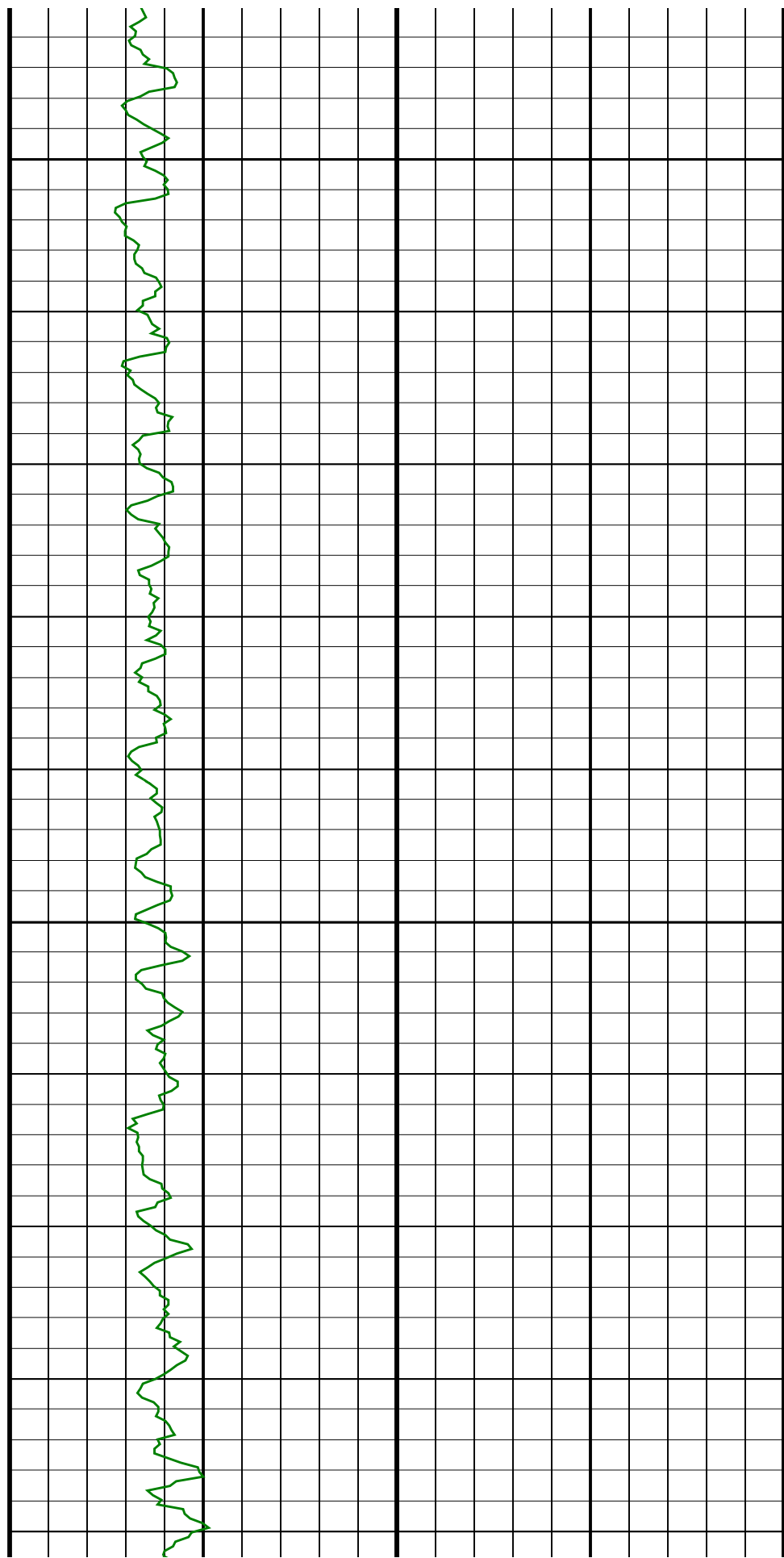
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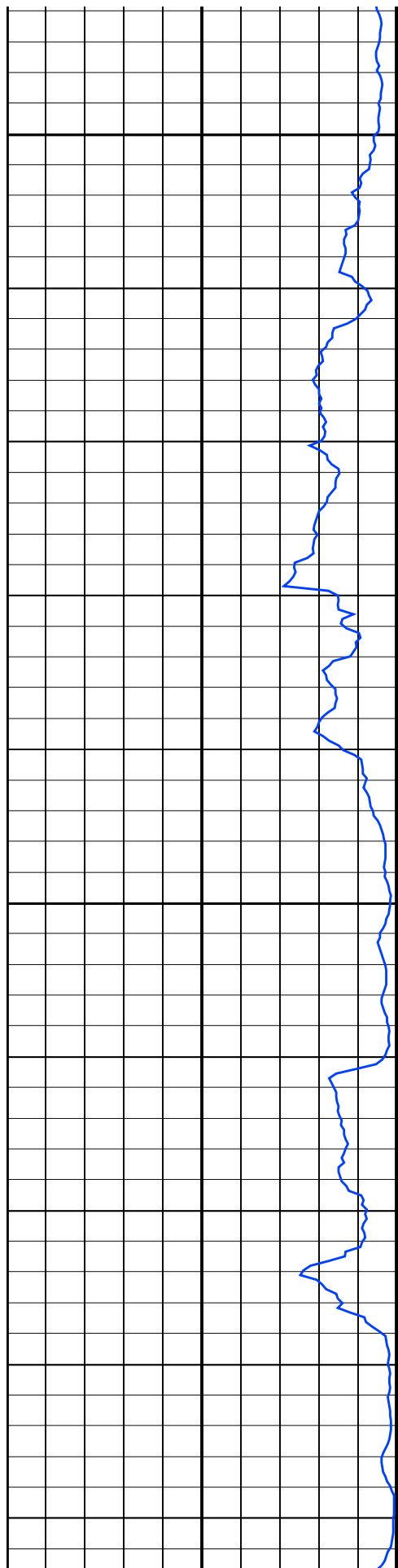




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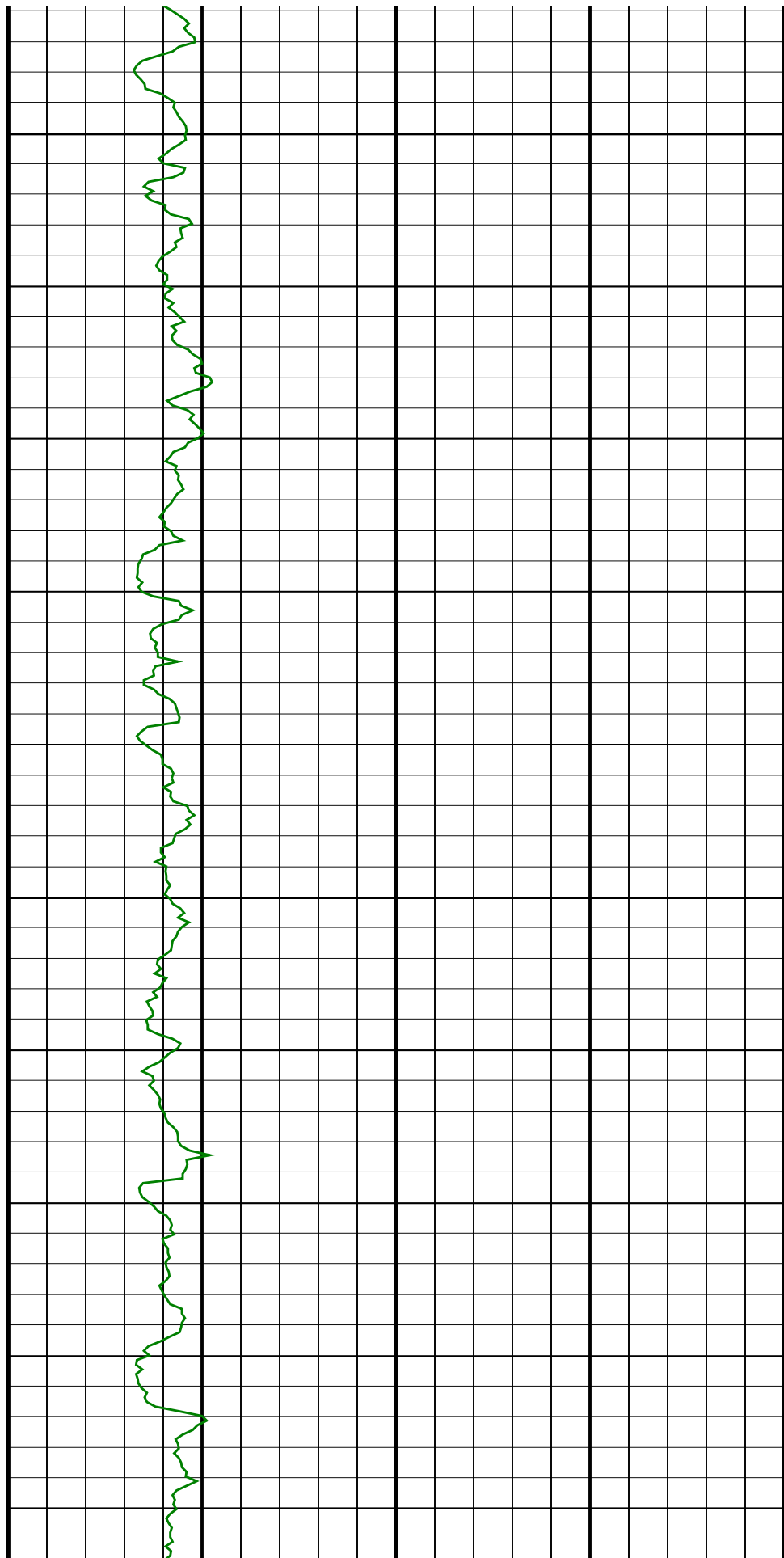
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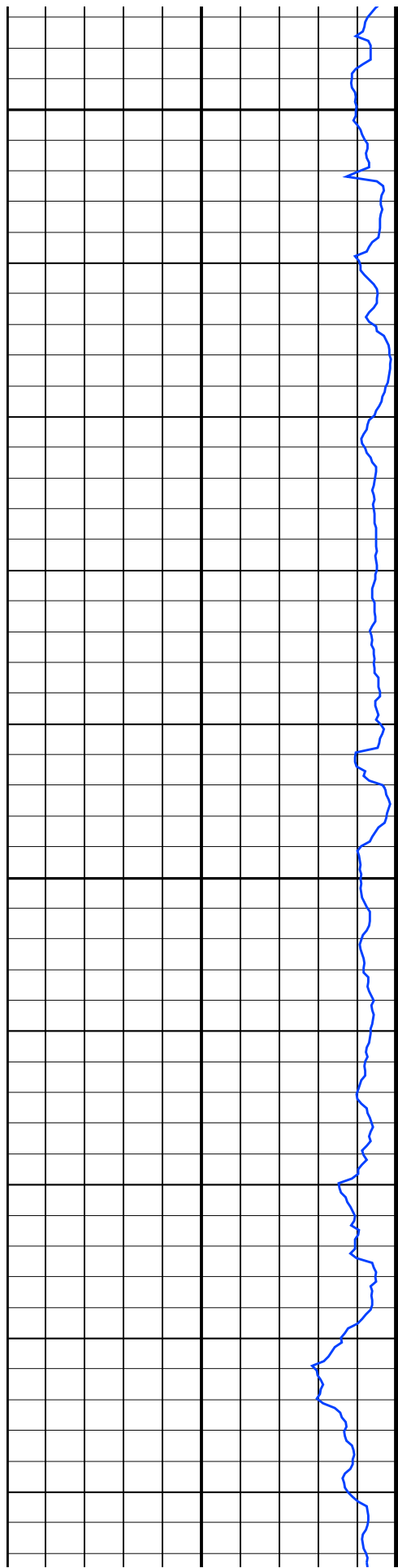




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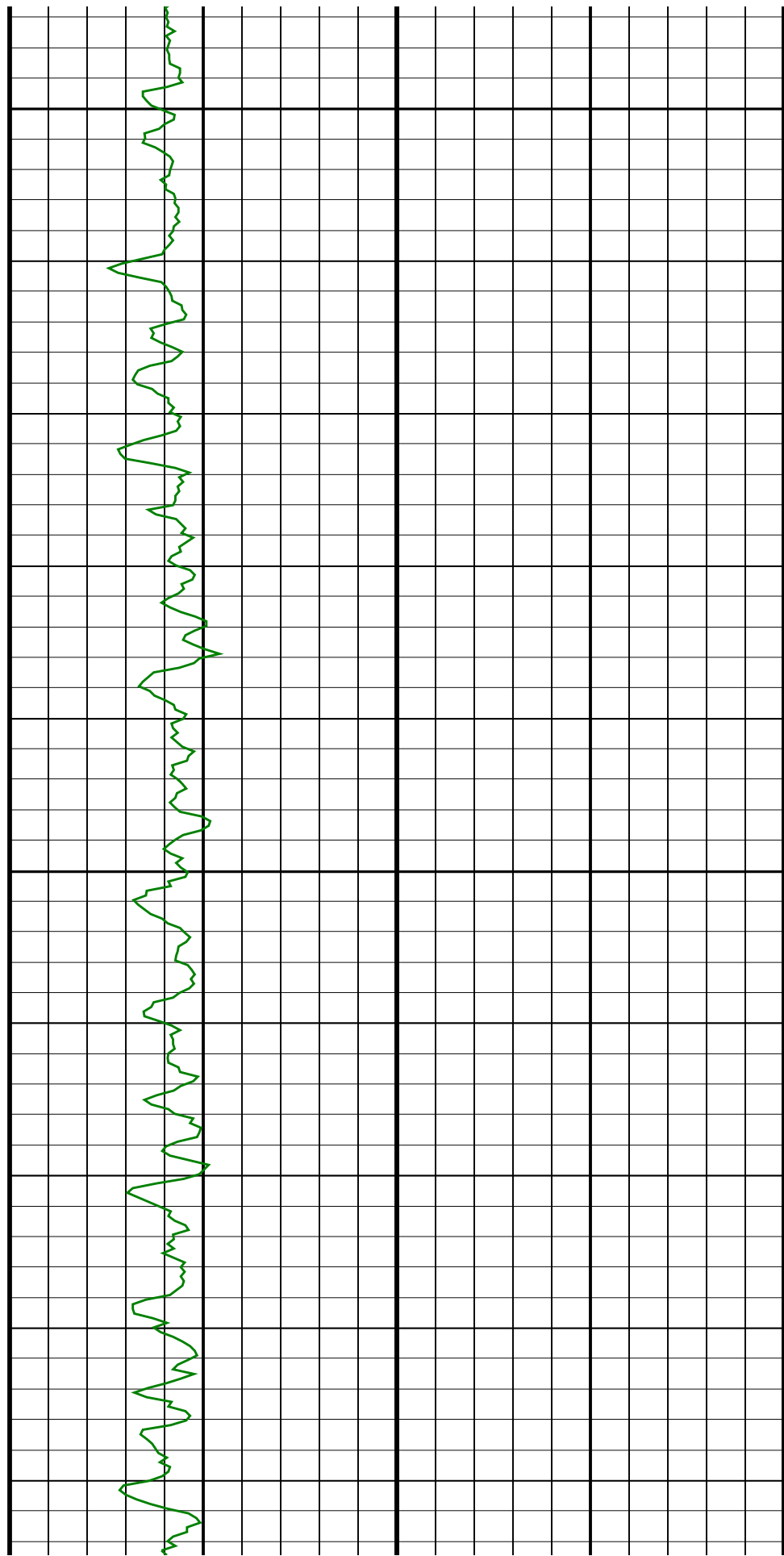
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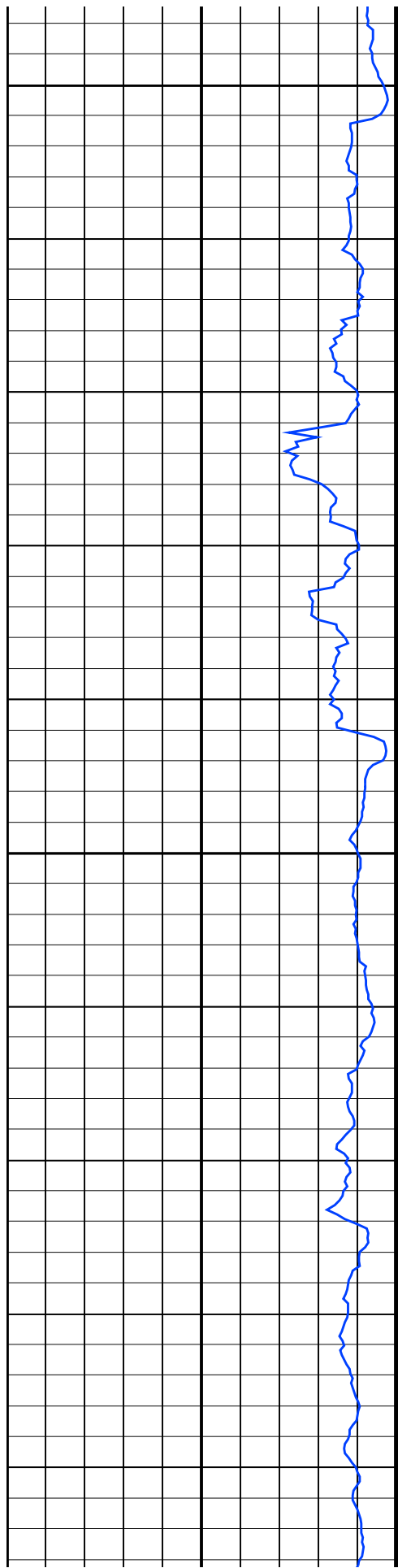




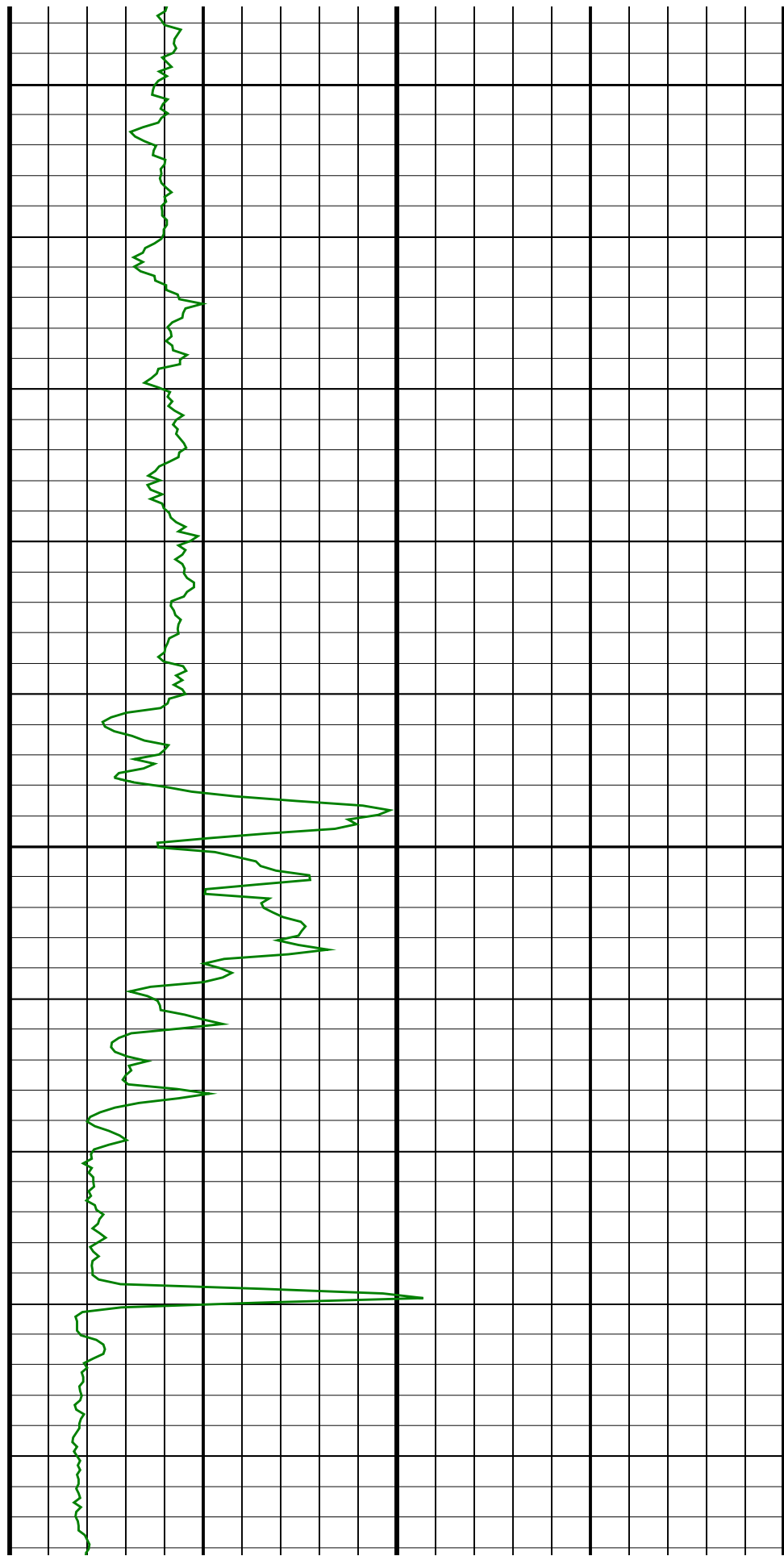
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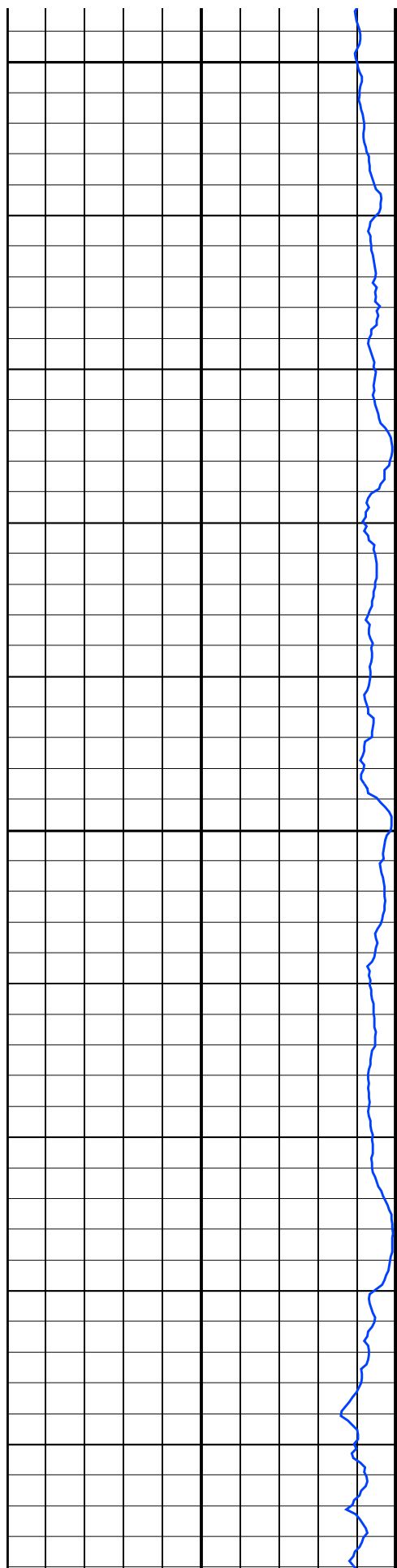




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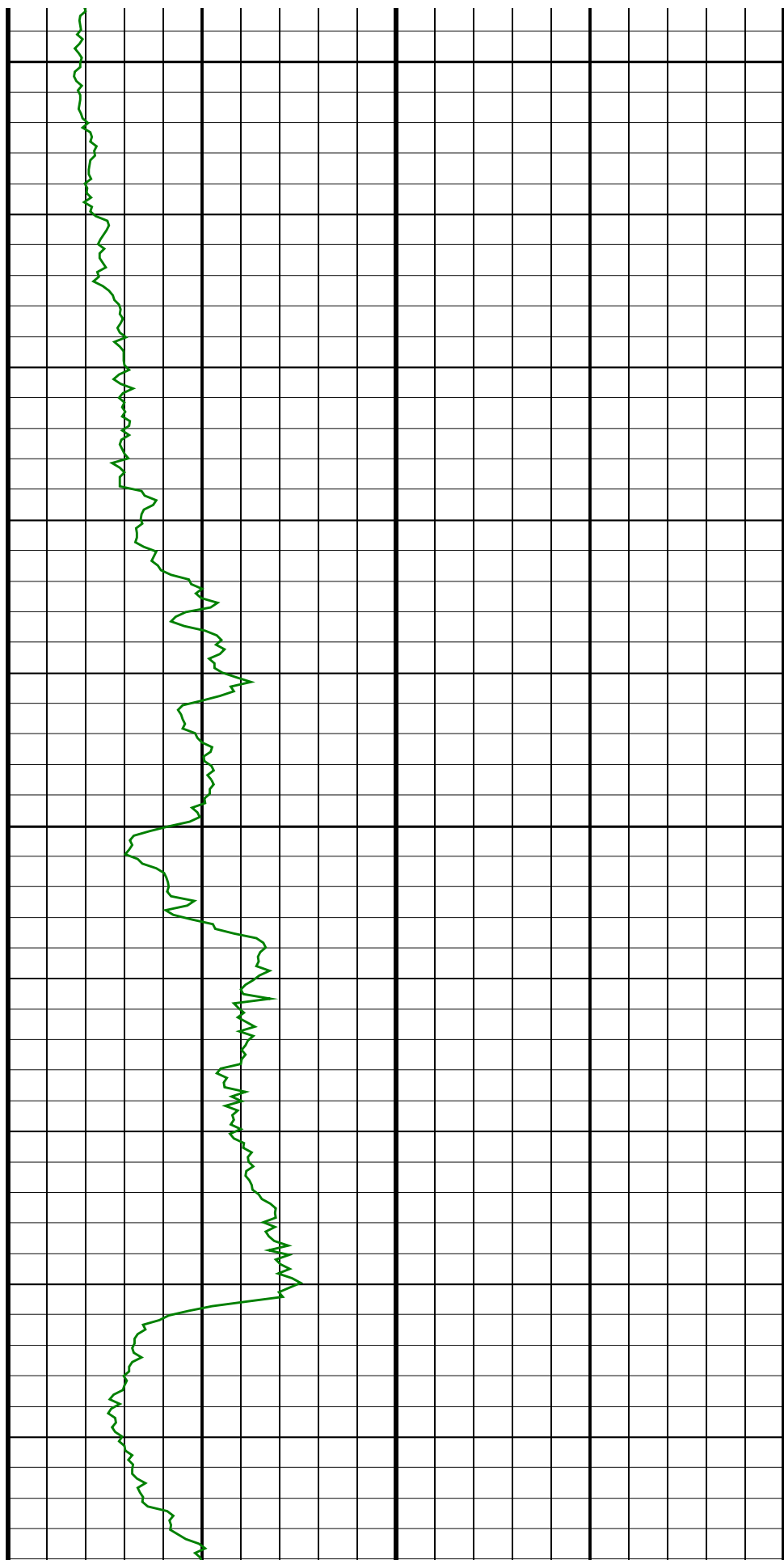


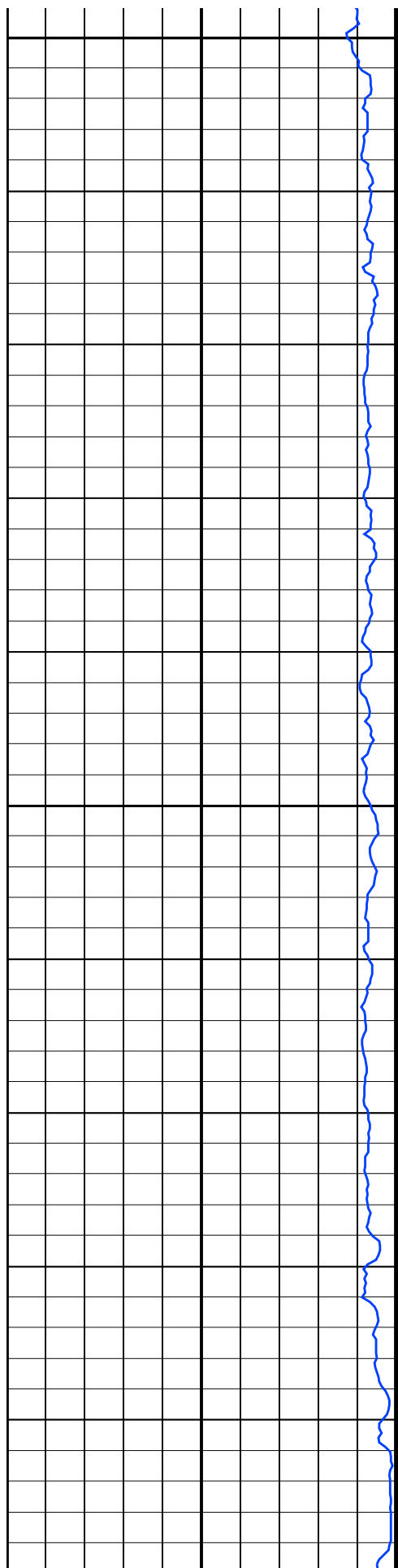
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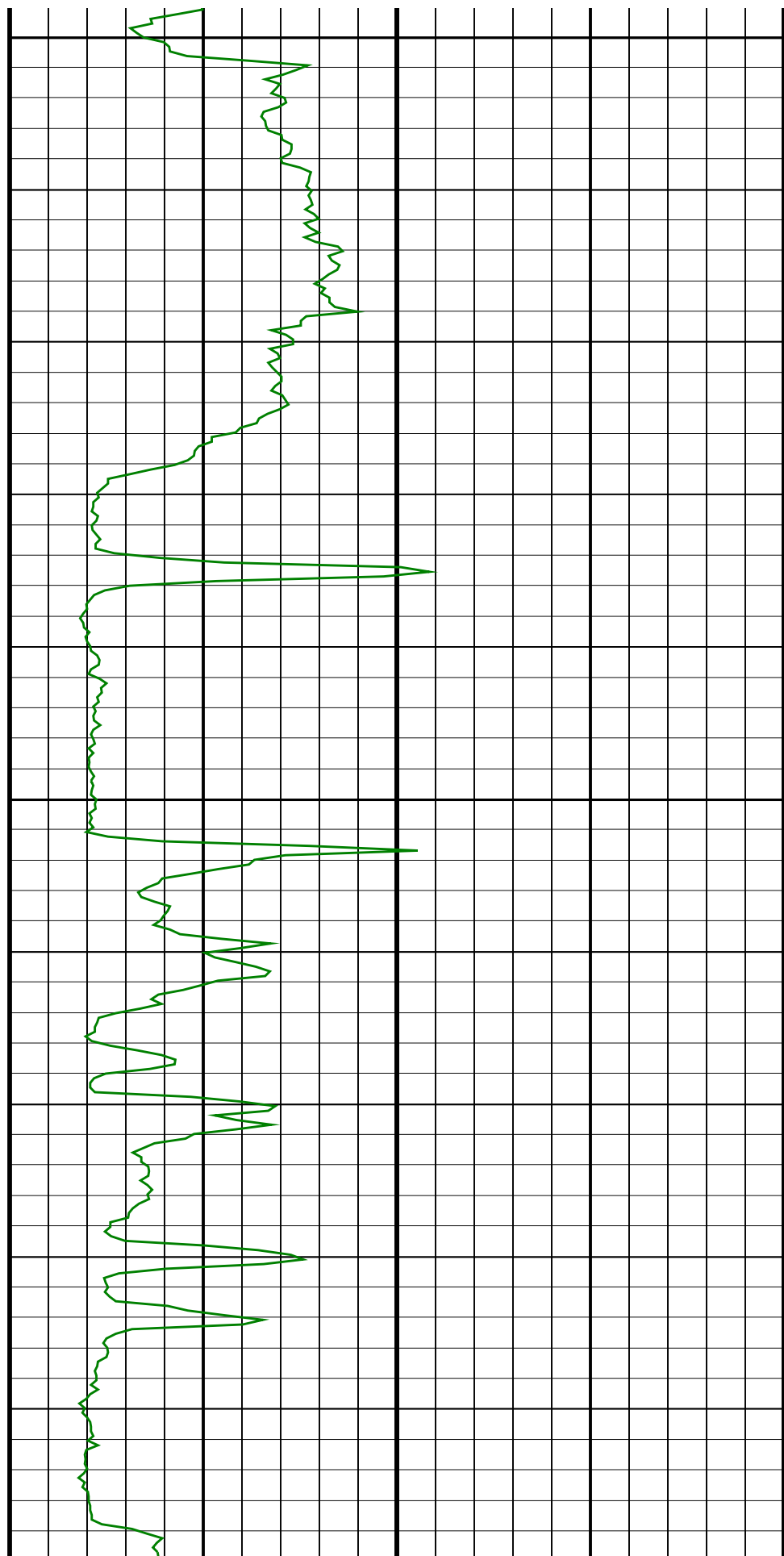
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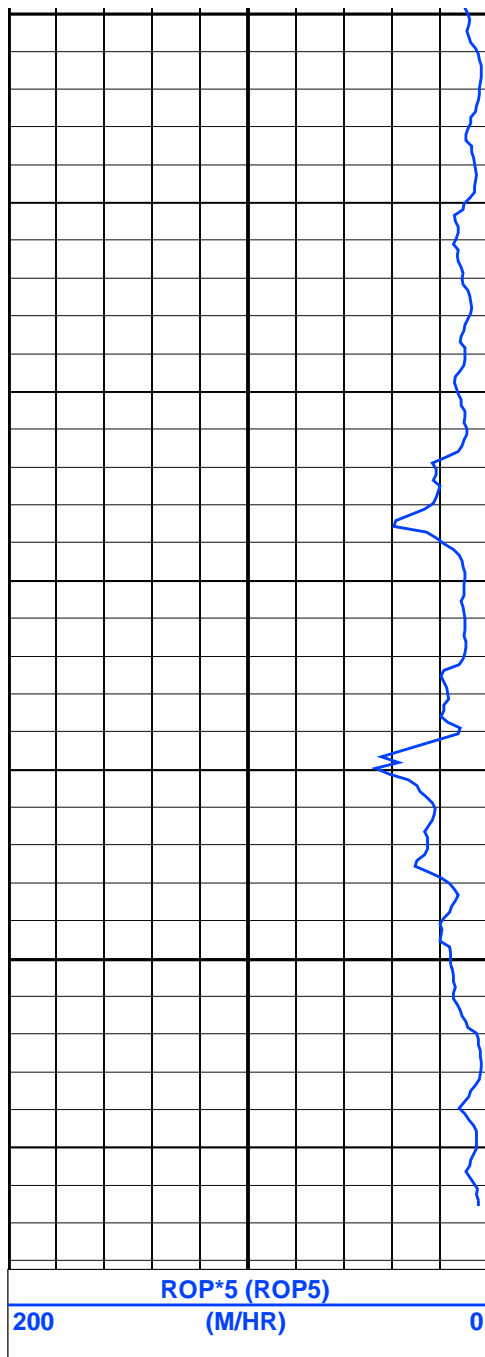




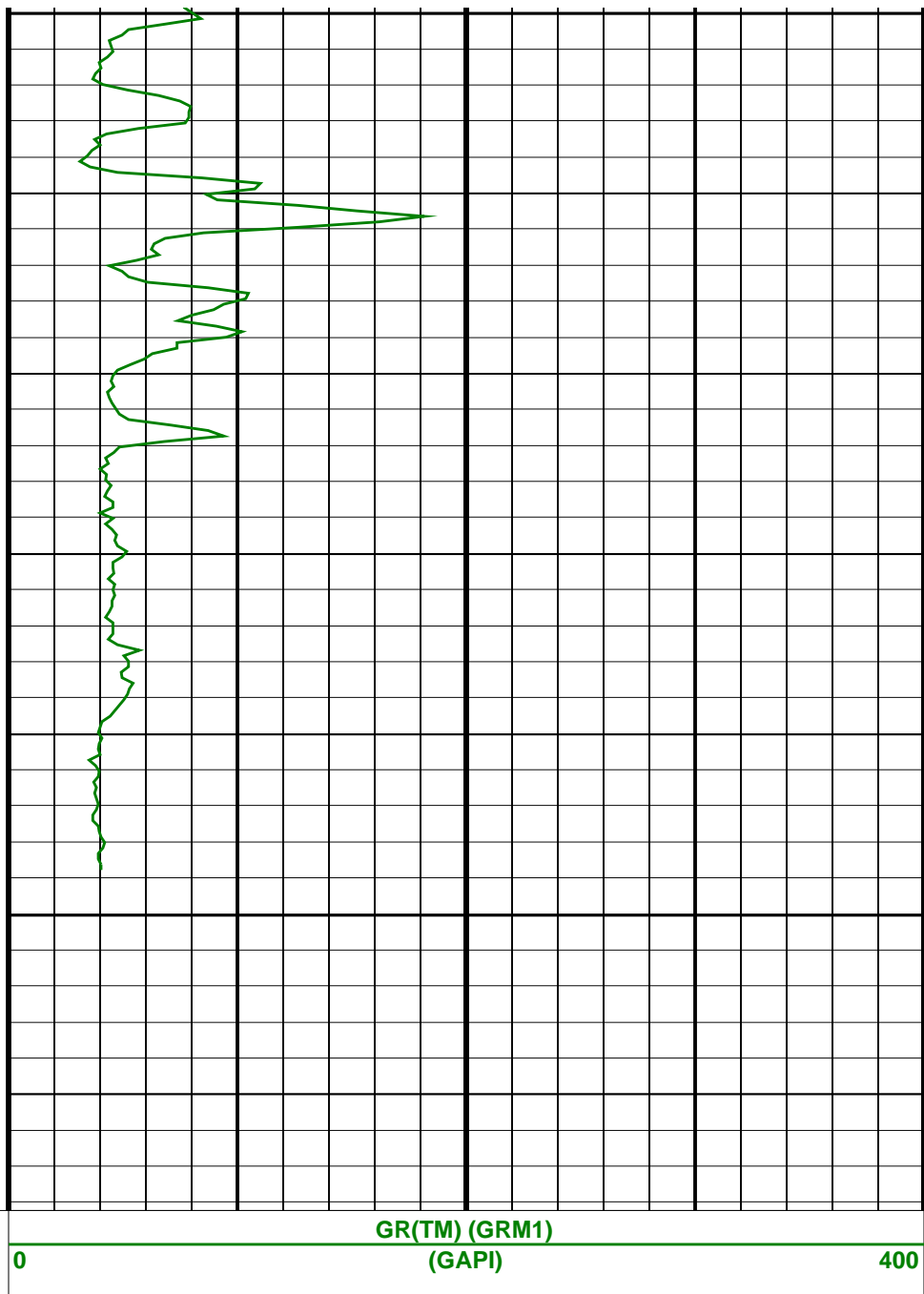
2375
TVD



2400
TVD



2425
TVD



2450
TVD

ROP*5 (ROP5)
(M/HR)

GR(TM) (GRM1)
(GAPI)

SCHLUMBERGER

Survey report 24-Dec-2003 16:53:19 Page 1 of 5

Client.....: ESSO Australia Pty. Ltd.
Field.....: Halibut GDA 94

Well.....: HLA A6A Spud date.....: 14-Dec-2003
API number.....: Last survey date.....: 24-Dec-03
Engineer.....: Kym Nicholas Handley Total accepted surveys...: 102
MD of first survey.....: 576.00 m
RIG.....: ISDL 453 MD of last survey.....: 3473.50 m
STATE.....: Victoria

----- Survey calculation methods -----
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor
----- Depth reference -----
Permanent datum.....: Mean Sea Level

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2003
Magnetic date.....: 13-Dec-2003
Magnetic field strength...: 1201.42 HCNT
Magnetic dec (+E/W-).....: 13.24 degrees
Magnetic dip.....: -68.87 degrees

Depth reference.....: Driller's Depth
 GL above permanent.....: -73.00 m
 KB above permanent.....: Top Drive
 DF above permanent.....: 29.45 m
 ----- MWD survey Reference Criteria -----
 Reference G.....: 1000.04 mGal
 Reference H.....: 1201.42 HCNT
 Reference Dip.....: -68.87 degrees
 ----- Vertical section origin -----
 Tolerance of G.....: (+/-) 2.50 mGal
 Latitude (+N/S-).....: 0.00 m
 Tolerance of H.....: (+/-) 6.00 HCNT
 Departure (+E/W-).....: 0.00 m
 Tolerance of Dip.....: (+/-) 0.45 degrees
 ----- Platform reference point -----
 ----- Corrections -----
 Latitude (+N/S-).....: -1.34 m
 Magnetic dec (+E/W-).....: 13.24 degrees
 Departure (+E/W-).....: 6.28 m
 Grid convergence (+E/W-).....: -0.82 degrees
 Total az corr (+E/W-).....: 14.06 degrees
 Azimuth from rotary table to target: 111.94 degrees (Total az corr = magnetic dec - grid conv)
 Survey Correction Type:
 I=Sag Corrected Inclination
 M=Schlumberger Magnetic Correction
 S=Shell Magnetic Correction
 F=Failed Axis Correction
 R=Magnetic Resonance Tool Correction
 D=Dmag Magnetic Correction

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Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Displ Total (m)	At Azim (deg)	DLS (deg/10m)	Srvy tool type	Tool Corr
1	576.00	16.52	46.71	0.00	571.83	16.22	32.41	30.54	44.53	43.30	0.00	TIP	None
2	612.00	18.66	65.16	36.00	606.17	22.31	38.34	39.50	55.05	45.85	1.65	MWD	None
3	640.64	20.88	72.72	28.64	633.13	29.41	41.79	48.53	64.04	49.27	1.18	MWD	None
4	669.04	22.28	81.93	28.40	659.54	37.99	44.05	58.70	73.39	53.12	1.29	MWD	None
5	698.17	25.96	92.18	29.13	686.14	48.78	44.58	70.55	83.45	57.71	1.91	MWD	None
6	726.13	32.04	98.56	27.96	710.59	61.77	43.24	84.01	94.49	62.77	2.44	MWD	None
7	755.13	35.14	101.36	29.00	734.74	77.46	40.45	99.81	107.69	67.94	1.19	MWD	None
8	784.03	38.18	104.99	28.90	757.92	94.51	36.50	116.60	122.18	72.62	1.29	MWD	None
9	812.58	41.34	106.77	28.55	779.87	112.67	31.50	134.15	137.80	76.79	1.18	MWD	None
10	841.28	45.60	107.69	28.70	800.69	132.34	25.64	153.00	155.14	80.49	1.50	MWD	None
11	870.01	47.89	110.46	28.73	820.38	153.23	18.80	172.77	173.79	83.79	1.06	MWD	None
12	898.59	48.17	110.76	28.58	839.49	174.48	11.32	192.66	192.99	86.64	0.13	MWD	None
13	927.44	48.20	110.59	28.85	858.73	195.97	3.73	212.78	212.81	89.00	0.05	MWD	None
14	956.29	48.12	110.32	28.85	877.97	217.46	-3.78	232.92	232.95	90.93	0.08	MWD	None
15	984.33	47.86	109.89	28.04	896.74	238.28	-10.95	252.48	252.72	92.48	0.15	MWD	None
16	1013.35	49.13	110.76	29.02	915.97	260.01	-18.50	272.86	273.49	93.88	0.49	MWD	None
17	1042.37	49.10	110.29	29.02	934.97	281.94	-26.19	293.41	294.57	95.10	0.12	MWD	None
18	1070.95	48.92	112.60	28.58	953.71	303.51	-34.07	313.48	315.33	96.20	0.61	MWD	None
19	1099.50	48.56	112.85	28.55	972.54	324.97	-42.37	333.28	335.96	97.24	0.14	MWD	None
20	1128.34	48.23	113.56	28.84	991.69	346.53	-50.86	353.10	356.74	98.20	0.22	MWD	None
21	1156.89	48.10	112.23	28.55	1010.73	367.80	-59.14	372.69	377.36	99.02	0.35	MWD	None
22	1185.89	48.99	111.64	29.00	1029.93	389.53	-67.26	392.86	398.57	99.71	0.34	MWD	None
23	1214.43	48.87	111.26	28.54	1048.68	411.05	-75.12	412.88	419.66	100.31	0.11	MWD	None
24	1243.04	48.79	111.04	28.61	1067.52	432.58	-82.89	432.97	440.83	100.84	0.06	MWD	None
25	1271.74	48.42	110.86	28.70	1086.50	454.11	-90.59	453.07	462.04	101.31	0.14	MWD	None
26	1300.66	48.32	110.95	28.92	1105.71	475.72	-98.31	473.27	483.37	101.73	0.04	MWD	None
27	1329.70	47.97	110.81	29.04	1125.08	497.35	-106.02	493.48	504.74	102.12	0.13	MWD	None
28	1358.35	48.86	111.58	28.65	1144.10	518.77	-113.76	513.46	525.91	102.49	0.37	MWD	None
29	1387.00	48.51	111.89	28.65	1163.01	540.29	-121.73	533.44	547.16	102.85	0.15	MWD	None
30	1415.63	48.18	112.10	28.63	1182.04	561.68	-129.74	553.28	568.29	103.20	0.13	MWD	None

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Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Displ Total (m)	At Azim (deg)	DLS (deg/10m)	Srvy tool type	Tool Corr
31	1444.08	49.07	111.63	28.45	1200.85	583.03	-137.69	573.09	589.40	103.51	0.34	MWD	None
32	1472.85	48.67	112.07	28.77	1219.77	604.70	-145.76	593.20	610.85	103.80	0.18	MWD	None
33	1501.71	48.05	112.19	28.86	1238.95	626.27	-153.88	613.18	632.20	104.09	0.22	MWD	None
34	1530.31	48.89	111.35	28.60	1257.91	647.68	-161.82	633.07	653.42	104.34	0.37	MWD	None
35	1558.89	48.43	111.36	28.58	1276.79	669.14	-169.64	653.05	674.72	104.56	0.16	MWD	None
36	1588.10	47.93	111.41	29.21	1296.27	690.90	-177.57	673.32	696.34	104.77	0.17	MWD	None
37	1616.44	48.58	110.75	28.34	1315.13	712.05	-185.18	693.05	717.36	104.96	0.29	MWD	None

38	1645.10	48.22	111.23	28.66	1334.16	733.48	-192.86	713.06	738.68	105.13	0.18	MWD	None
39	1673.88	49.06	110.84	28.78	1353.18	755.07	-200.61	733.22	760.17	105.30	0.31	MWD	None
40	1702.50	48.76	110.86	28.62	1371.99	776.64	-208.29	753.38	781.64	105.45	0.10	MWD	None
41	1731.12	48.75	110.52	28.62	1390.86	798.15	-215.89	773.51	803.07	105.59	0.09	MWD	None
42	1759.78	48.56	110.62	28.66	1409.79	819.66	-223.45	793.66	824.51	105.72	0.07	MWD	None
43	1788.84	48.08	110.63	29.06	1429.12	841.36	-231.09	813.97	846.14	105.85	0.17	MWD	None
44	1817.48	49.33	110.10	28.64	1448.02	862.87	-238.58	834.14	867.59	105.96	0.46	MWD	None
45	1846.27	49.78	111.08	28.79	1466.69	884.78	-246.29	854.65	889.43	106.08	0.30	MWD	None
46	1874.92	49.45	111.02	28.65	1485.26	906.60	-254.12	875.02	911.17	106.19	0.12	MWD	None
47	1903.44	48.97	111.33	28.52	1503.89	928.19	-261.92	895.15	932.69	106.31	0.19	MWD	None
48	1932.33	48.63	110.95	28.89	1522.92	949.92	-269.76	915.43	954.35	106.42	0.15	MWD	None
49	1960.97	48.35	111.14	28.64	1541.90	971.37	-277.47	935.44	975.73	106.52	0.11	MWD	None
50	1989.74	48.15	111.13	28.77	1561.05	992.83	-285.20	955.46	997.12	106.62	0.07	MWD	None
51	2018.21	47.97	111.14	28.47	1580.08	1014.00	-292.84	975.22	1018.23	106.71	0.06	MWD	None
52	2046.82	48.84	110.96	28.61	1599.08	1035.40	-300.53	995.18	1039.57	106.80	0.31	MWD	None
53	2075.47	48.65	110.96	28.65	1617.97	1056.93	-308.23	1015.30	1061.05	106.89	0.07	MWD	None
54	2104.37	48.62	110.76	28.91	1637.07	1078.62	-315.96	1035.57	1082.70	106.97	0.05	MWD	None
55	2133.05	48.53	111.16	28.67	1656.04	1100.12	-323.65	1055.65	1104.15	107.04	0.11	MWD	None
56	2161.84	48.42	111.22	28.79	1675.13	1121.67	-331.44	1075.74	1125.65	107.12	0.04	MWD	None
57	2190.77	48.51	110.92	28.93	1694.31	1143.32	-339.22	1095.95	1147.25	107.20	0.08	MWD	None
58	2219.42	48.65	111.34	28.65	1713.27	1164.81	-346.97	1115.99	1168.68	107.27	0.12	MWD	None
59	2248.08	48.65	111.32	28.66	1732.20	1186.32	-354.79	1136.03	1190.15	107.34	0.01	MWD	None
60	2276.88	48.60	111.35	28.80	1751.24	1207.93	-362.66	1156.16	1211.71	107.42	0.02	MWD	None

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Seq	Measured	Incl	Azimuth	Course	TVD	Vertical	Displ	Displ	Total	At	DLS	Srvy	Tool
#	depth	angle	angle	length	depth	section	+N/S-	+E/W-	displ	Azim	(deg/	tool	Corr
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(deg)	10m)	type	(deg)	
61	2305.36	48.50	112.00	28.48	1770.09	1229.28	-370.54	1176.00	1232.99	107.49	0.17	MWD	None
62	2333.97	48.59	111.93	28.61	1789.03	1250.72	-378.56	1195.89	1254.37	107.57	0.04	MWD	None
63	2362.73	48.60	112.07	28.76	1808.05	1272.29	-386.64	1215.89	1275.88	107.64	0.04	MWD	None
64	2391.41	48.56	112.26	28.68	1827.03	1293.80	-394.75	1235.80	1297.32	107.72	0.05	MWD	None
65	2420.17	48.74	112.04	28.76	1846.03	1315.39	-402.89	1255.80	1318.85	107.79	0.08	MWD	None
66	2449.02	49.09	111.59	28.85	1864.99	1337.13	-410.97	1275.99	1340.54	107.85	0.17	MWD	None
67	2477.63	48.94	111.71	28.61	1883.75	1358.73	-418.94	1296.06	1362.09	107.91	0.06	MWD	None
68	2506.27	48.84	111.88	28.64	1902.58	1380.31	-426.95	1316.10	1383.62	107.97	0.06	MWD	None
69	2534.69	48.56	109.99	28.42	1921.34	1401.65	-434.58	1336.04	1404.94	108.02	0.51	MWD	None
70	2563.89	48.23	109.68	29.20	1940.73	1423.47	-441.99	1356.58	1426.76	108.05	0.14	MWD	None
71	2593.57	48.80	109.94	29.68	1960.39	1445.69	-449.53	1377.50	1448.99	108.07	0.20	MWD	None
72	2622.11	48.83	109.90	28.54	1979.18	1467.16	-456.85	1397.69	1470.46	108.10	0.01	MWD	None
73	2650.57	48.86	109.36	28.46	1997.91	1488.57	-464.04	1417.87	1491.88	108.12	0.14	MWD	None
74	2679.12	49.16	109.87	28.55	2016.64	1510.10	-471.28	1438.17	1513.42	108.14	0.17	MWD	None
75	2707.57	49.02	111.04	28.45	2035.27	1531.59	-478.79	1458.32	1534.90	108.18	0.31	MWD	None
76	2736.05	49.24	110.79	28.48	2053.90	1553.12	-486.48	1478.43	1556.42	108.21	0.10	MWD	None
77	2764.71	49.29	110.56	28.66	2072.61	1574.84	-494.15	1498.75	1578.11	108.25	0.06	MWD	None
78	2793.33	48.69	111.41	28.62	2091.39	1596.43	-501.88	1518.92	1599.68	108.28	0.31	MWD	None
79	2822.37	48.64	111.72	29.04	2110.57	1618.23	-509.90	1539.19	1621.45	108.33	0.08	MWD	None
80	2851.25	48.78	111.82	28.88	2129.62	1639.93	-517.94	1559.35	1643.11	108.37	0.06	MWD	None
81	2879.67	49.04	111.47	28.42	2148.30	1661.35	-525.84	1579.26	1664.50	108.42	0.13	MWD	None
82	2908.98	49.87	112.33	29.31	2167.36	1683.62	-534.15	1599.92	1686.73	108.46	0.36	MWD	None
83	2937.78	52.62	114.88	28.80	2185.38	1706.07	-543.15	1620.49	1709.09	108.53	1.18	MWD	None
84	2966.32	54.26	117.59	28.54	2202.39	1728.92	-553.29	1641.05	1731.81	108.63	0.95	MWD	None
85	2994.76	56.58	121.21	28.44	2218.53	1752.13	-564.79	1661.43	1754.81	108.77	1.33	MWD	None
86	3023.19	57.87	123.67	28.43	2233.92	1775.63	-577.61	1681.60	1778.04	108.96	0.86	MWD	None
87	3052.15	58.67	125.33	28.96	2249.15	1799.67	-591.56	1701.90	1801.78	109.17	0.56	MWD	None
88	3080.94	59.13	125.92	28.79	2264.02	1823.62	-605.92	1721.94	1825.44	109.39	0.24	MWD	None
89	3102.26	58.69	126.09	21.32	2275.03	1841.33	-616.66	1736.71	1842.94	109.55	0.22	MWD	None
90	3138.06	58.73	126.19	35.80	2293.63	1870.99	-634.70	1761.41	1872.28	109.82	0.03	MWD	None

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Seq	Measured	Incl	Azimuth	Course	TVD	Vertical	Displ	Displ	Total	At	DLS	Srvy	Tool
#	depth	angle	angle	length	depth	section	+N/S-	+E/W-	displ	Azim	(deg/	tool	Corr
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(deg)	10m)	type	(deg)	
91	3166.82	59.02	126.17	28.76	2308.49	1894.85	-649.23	1781.29	1895.91	110.03	0.10	MWD	None

92	3195.54	59.35	125.74	28.72	2323.21	1918.79	-663.72	1801.25	1919.64	110.23	0.17	MWD	None
93	3224.40	60.26	125.81	28.86	2337.72	1943.01	-678.30	1821.49	1943.69	110.42	0.32	MWD	None
94	3253.25	60.64	126.22	28.85	2351.95	1967.35	-693.05	1841.79	1967.87	110.62	0.18	MWD	None
95	3282.28	60.02	125.92	29.03	2366.32	1991.81	-707.91	1862.18	1992.20	110.81	0.23	MWD	None
96	3310.72	60.30	126.07	28.44	2380.47	2015.74	-722.40	1882.14	2016.01	111.00	0.11	MWD	None
97	3339.55	61.10	126.45	28.83	2394.58	2040.10	-737.27	1902.41	2040.28	111.18	0.30	MWD	None
98	3368.25	61.58	126.37	28.70	2408.34	2064.49	-752.22	1922.68	2064.59	111.37	0.17	MWD	None
99	3396.83	62.34	126.22	28.58	2421.78	2088.92	-767.15	1943.01	2088.97	111.55	0.27	MWD	None
100	3425.41	62.72	126.76	28.58	2434.96	2113.47	-782.23	1963.40	2113.48	111.72	0.21	MWD	None
101	3450.21	63.19	126.50	24.80	2446.24	2134.83	-795.41	1981.12	2134.84	111.88	0.21	MWD	None
102	3473.50	63.60	126.50	23.29	2456.67	2154.99	-807.80	1997.86	2154.99	112.02	0.18	Projection to TD	

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Company: **ESSO Australia Pty. Ltd.**

Schlumberger

Well: **HLA A6A**

Field: **Halibut GDA 94**

Rig: **ISDL 453**

State: **Victoria**

**Gamma Ray Service
1:200 True Vertical Depth
Real Time Log**