

Bit Run Summary

[illegible]







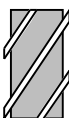








Type		Seawater	KCl/PHPA/Glycol	KCl/PHPA/Glycol	KCl/PHPA/Glycol						
Mud weight	ppg	8.0	9.5	9.5	9.5						
Solids	%wt	0.2	4.6	4.7	5.1						
Chlorides	mg/L	39500	49000	48000	50000						
Rm	ohm-m	N/A	N/A	N/A	N/A						
Rmf	ohm-m	N/A	N/A	N/A	N/A						
Rmc	ohm-m	N/A	N/A	N/A	N/A						
Potassium	%	3.7	4.0	4.0	4.0						
Environmental data											
GR											
Mud weight	ppg	8.0	9.5	9.5	9.5						
Bit size	in	8.5	8.5	8.5	8.5						
Resistivity											
Neutron porosity											
Hole Size		N/A	N/A	N/A	N/A						
Mud weight		N/A	N/A	N/A	N/A						
Temperature		N/A	N/A	N/A	N/A						
Mud salinity		N/A	N/A	N/A	N/A						
Formation salinity		N/A	N/A	N/A	N/A						
Recording rate 1	SEC	N/A	N/A	N/A	N/A						
Recording rate 2	SEC	N/A	N/A	N/A	N/A						
Filtering GR		N/A	N/A	N/A	N/A						
Filtering density		N/A	N/A	N/A	N/A						
Filtering Neutron		N/A	N/A	N/A	N/A						
Company representative		G.Campbell	B.Steel	R.Morris	B.Davis						
Anadrill personnel		K.Handley	J.Dolan	C.Soper	B.Manjenic						

DISCLAIMER

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.

OTHER SERVICES FOR RUN1	OTHER SERVICES FOR RUN2	OTHER SERVICES FOR RUN3
Gamma Ray Directional Surveys Directional Drilling	Gamma Ray Directional Surveys Directional Drilling	Gamma Ray Directional Surveys Directional Drilling
REMARKS: RUN NUMBER 1 8 1/2 in. hole was drilled from 603.7m to 665m. Depth is referenced to Driller's Depth. Gamma Ray is corrected for Tool size, Bit size, and Mud weight. Mud type is seawater. POOH after drilling out cement to 665m .	REMARKS: RUN NUMBER 2 8 1/2 in. hole was drilled from 665m to 2704m. Depth is referenced to Driller's Depth. Gamma Ray is corrected for Tool size, Bit size, and Mud weight. Mud type is KCl/PHPA/Glycol. POOH due to Drill String Failure (back off in Drill Pipe at 1695 m).	REMARKS: RUN NUMBER 3 8 1/2 in. hole was drilled from 2704m to 2959m. Depth is referenced to Driller's Depth. Gamma Ray is corrected for Tool size, Bit size, and Mud weight. Mud type is KCl/PHPA/Glycol. POOH due to Bit Hours

EQUIPMENT DESCRIPTION

RUN1			RUN2			RUN3		
DOWNHOLE EQ			DOWNHOLE E			DOWNHOLE EQ		
6 3/4 in. Pow MDC Y92 MDI 6 MEC 6 MGR 29 DH Software:		22.36	6 3/4 in. Pow MDC Y92 MDI 6 MEC 6 MGR 29 DH Software:		22.46	6 3/4 in. Pow MDC 0 MDI 11 MEC 11 MGR 41 DH Software:		22.56
D&I GR	18.0 — 17.4		D&I GR	18.1 — 17.4		D&I GR	17.8 — 17.1	
6 1/2 in. NM SN: ASS1		13.96	6 1/2 in. NM SN: ASS1		13.96	6 1/2 in. NM SN: ASS1		13.96
6 1/8 in. NM SN: DOTS 8 1/4 in. Stab		12.26	6 1/8 in. NM SN: DOTS 8 1/4 in. Stab		12.26	6 1/8 in. NM SN: DOTS 8 1/4 in. Stab		12.26
6 1/2 in. NM SN: 9612		10.66	6 1/2 in. NM SN: 9612		10.76	6 1/2 in. NM SN: 9612		10.66
PowerPak* M A675XP SN: 036 0.0 deg b 8 3/8 in. Moto		7.92	Powerpak* Mu A675XP SN: 036 1.15 deg 8 3/8 in. Moto		7.98	Powerpak* Mu A675XP SN: 020 1.15 deg 8 3/8 in. Moto		7.98

DOWNHOLE EQ

6 3/4 in. Pow
MDC 0
MDI 11
MEC 11
MGR 41
DH Software:

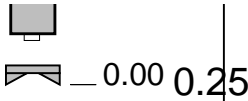
D&I 16.1
GR 15.4

6 1/2 in. NM
SN: 9612

6 1/8 in. NM
SN: DOTS
8 1/4 in. Stab

Powerpak* Mu
A675XP
SN: 020
1.15 deg
8 3/8 in. Moto

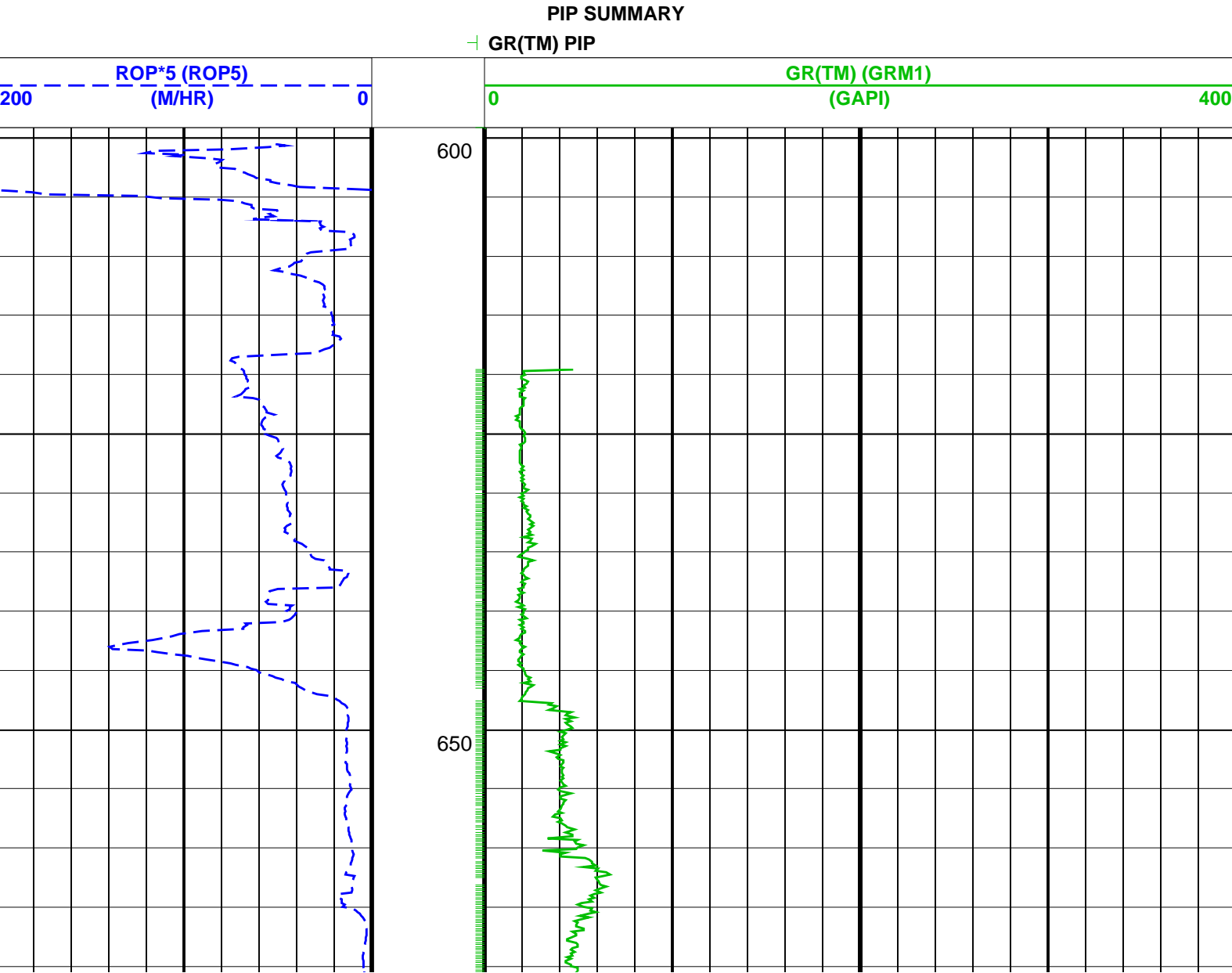
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8 1/2 in.
MXLR20
SN: E11

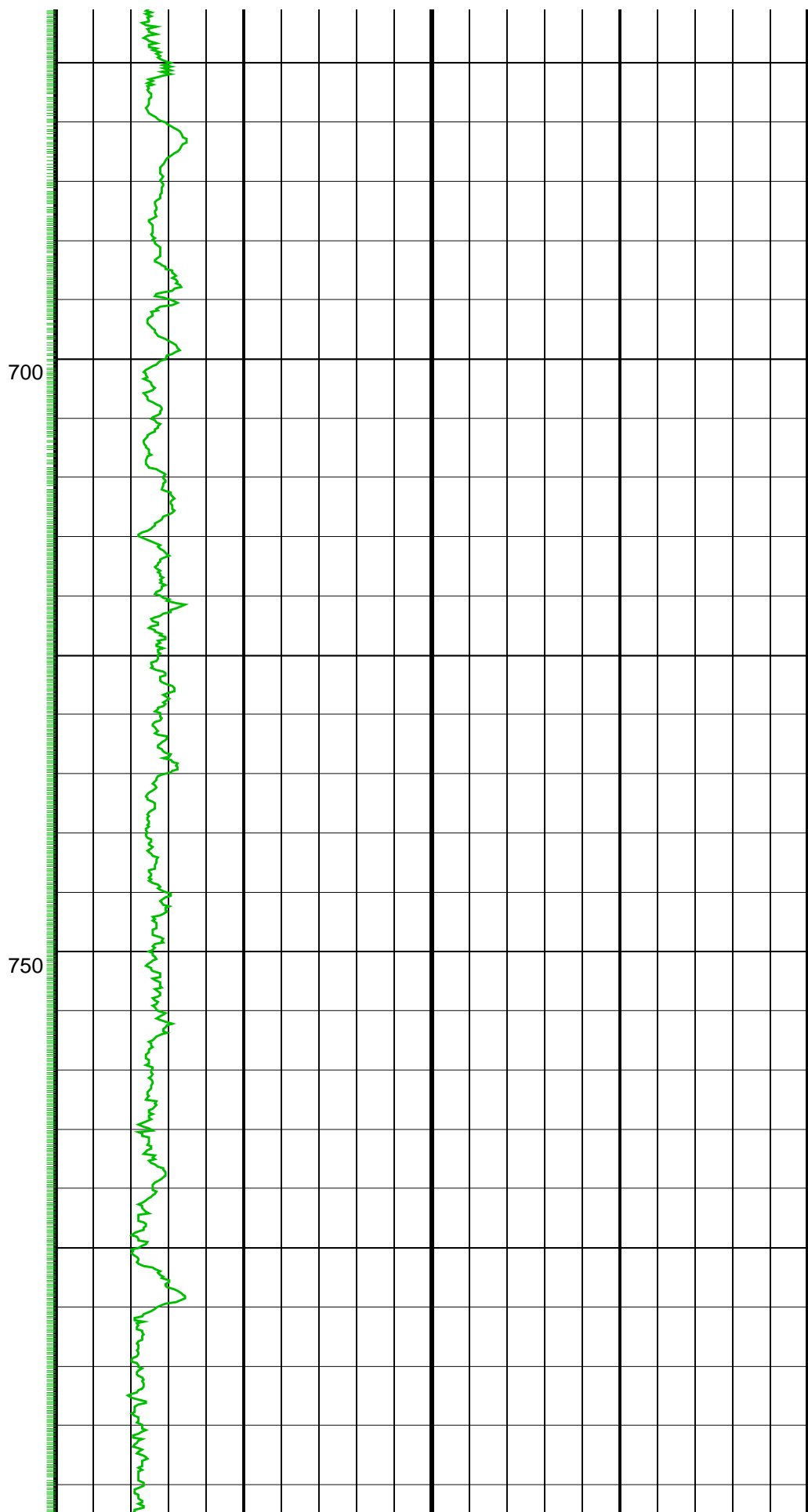
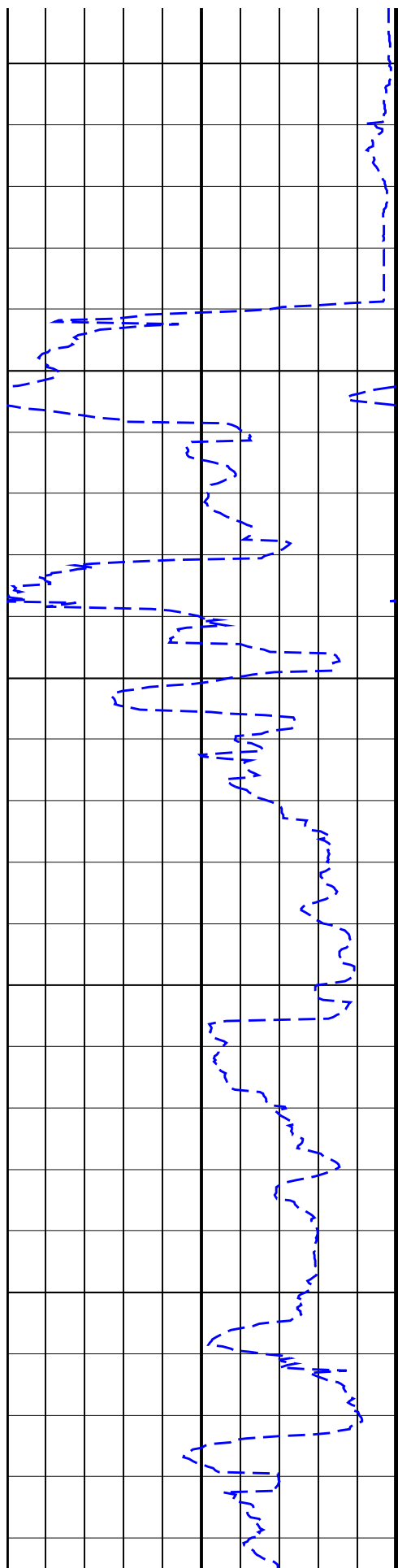
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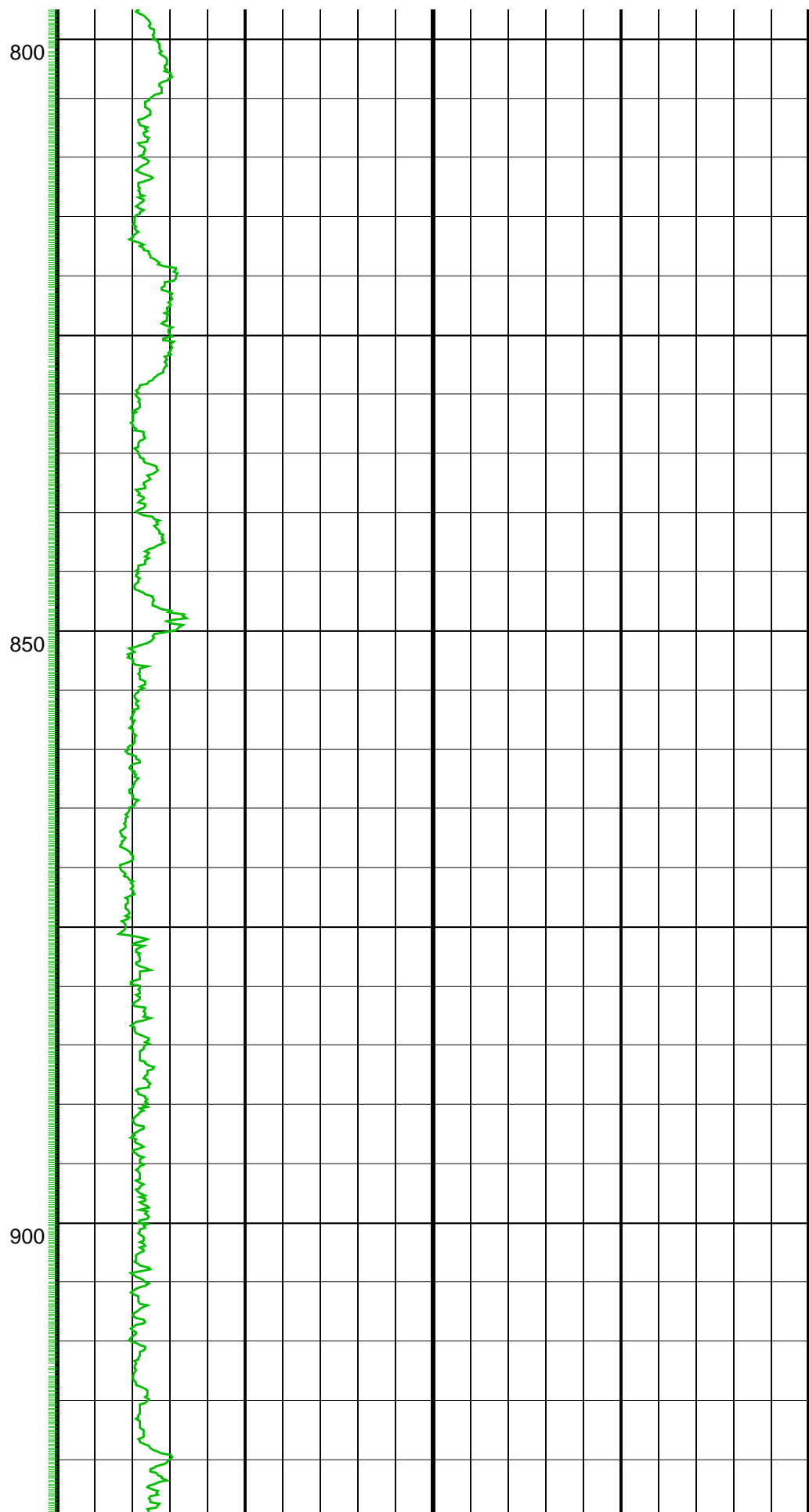
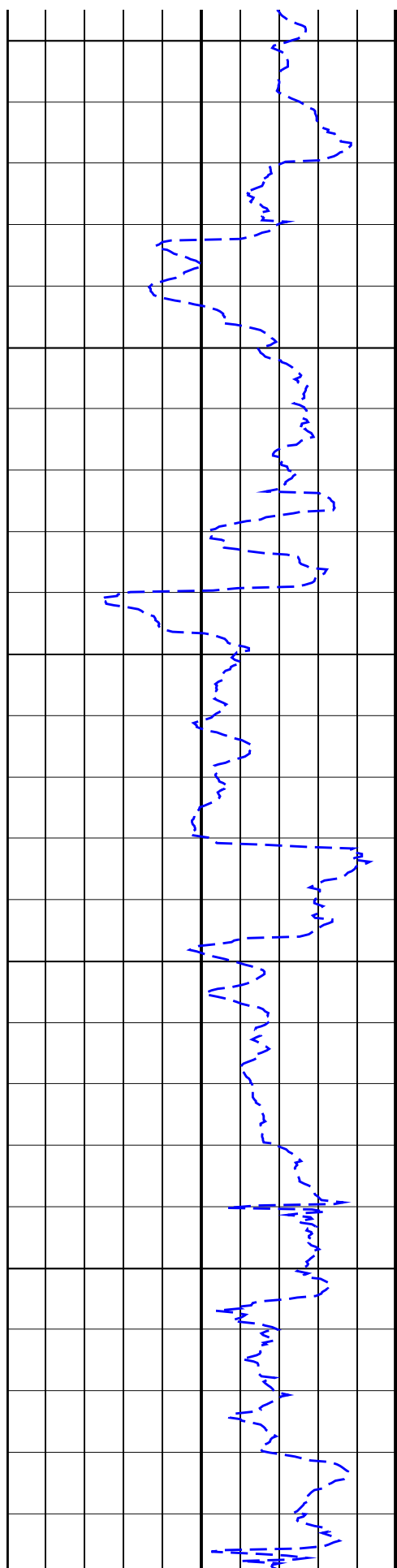
Maximum string diam
All lengths in

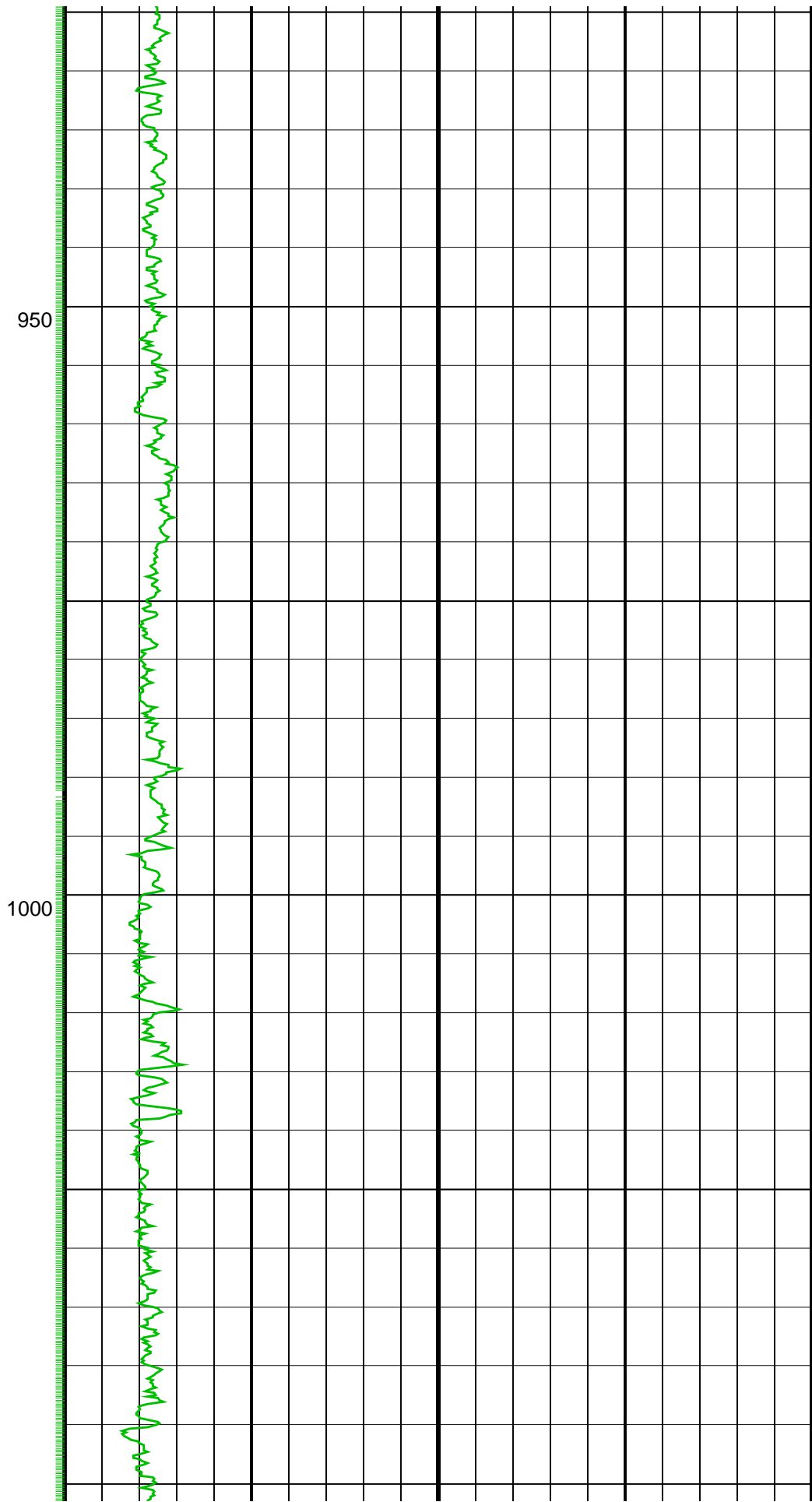
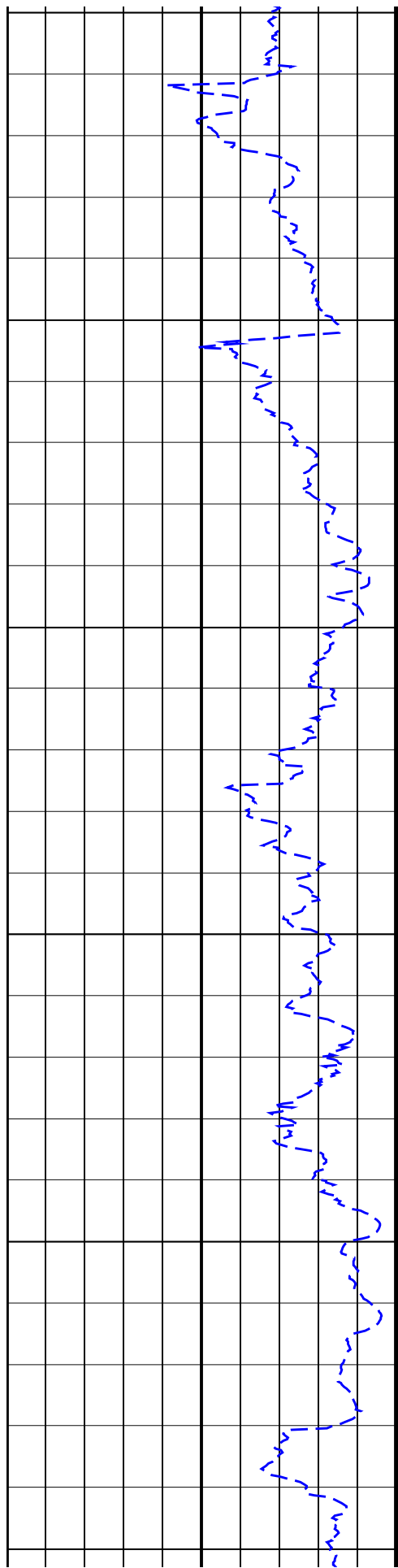
FLA A-20a RT 1:500MD

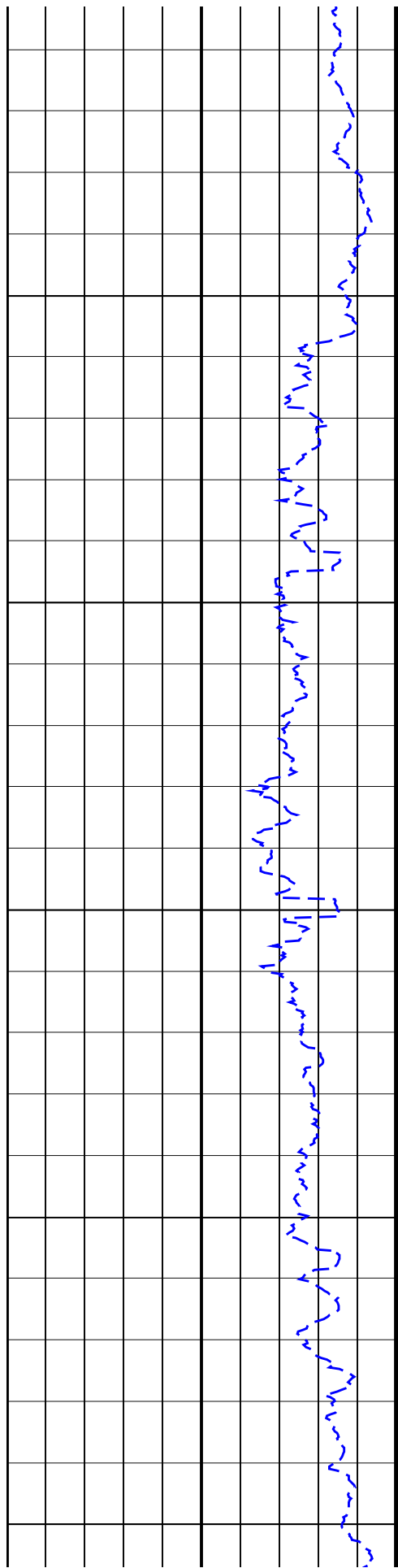
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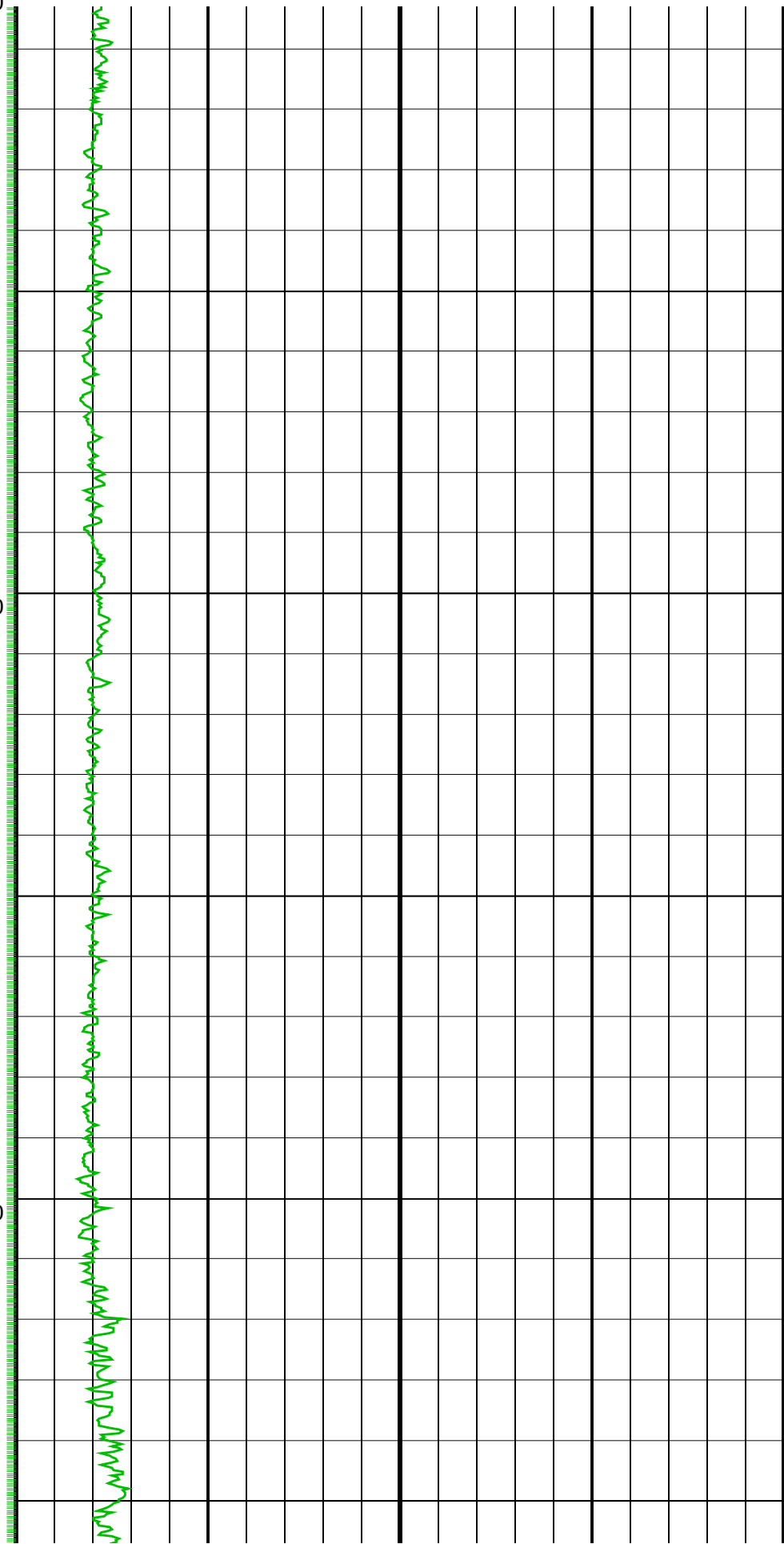


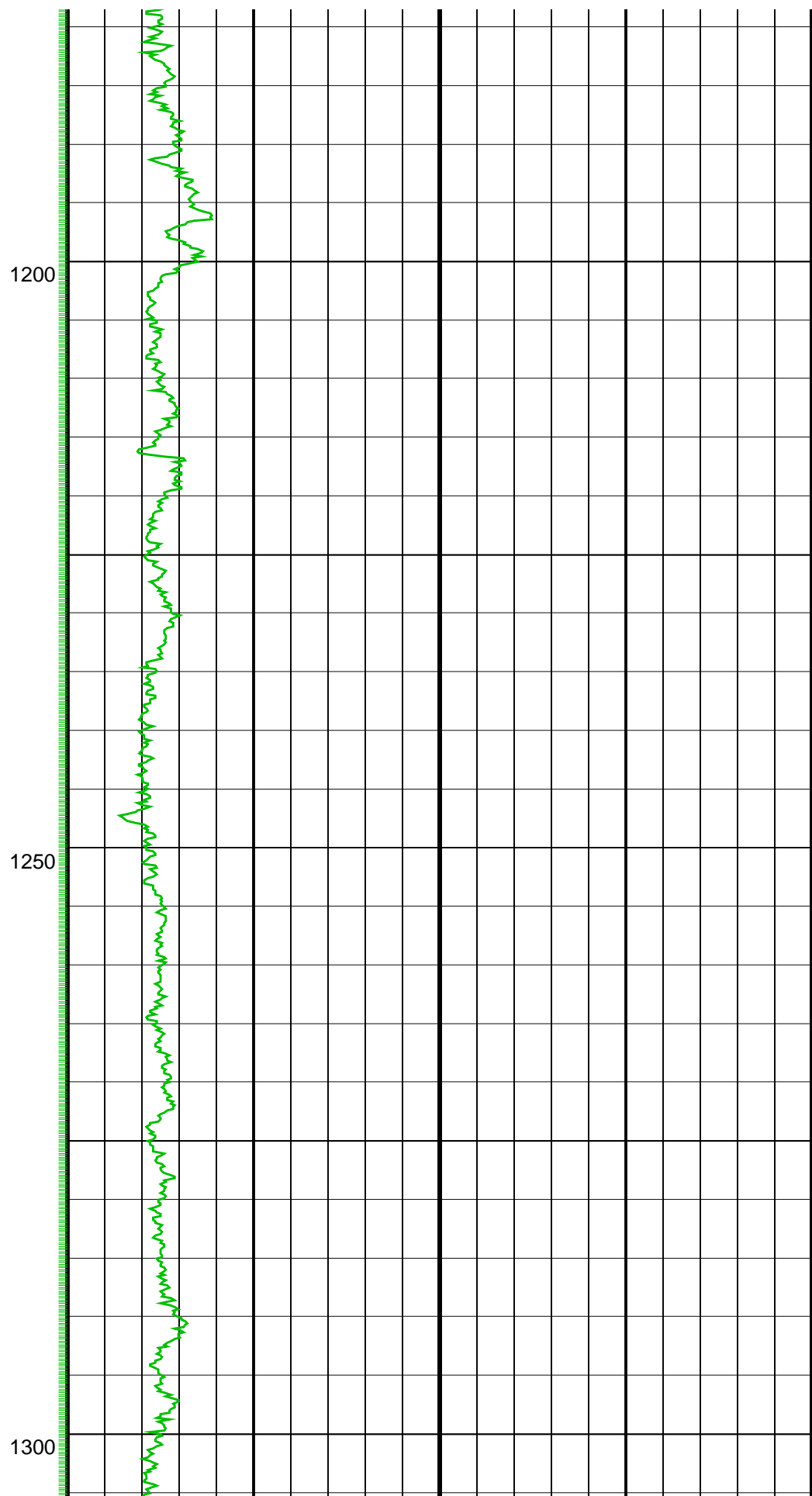
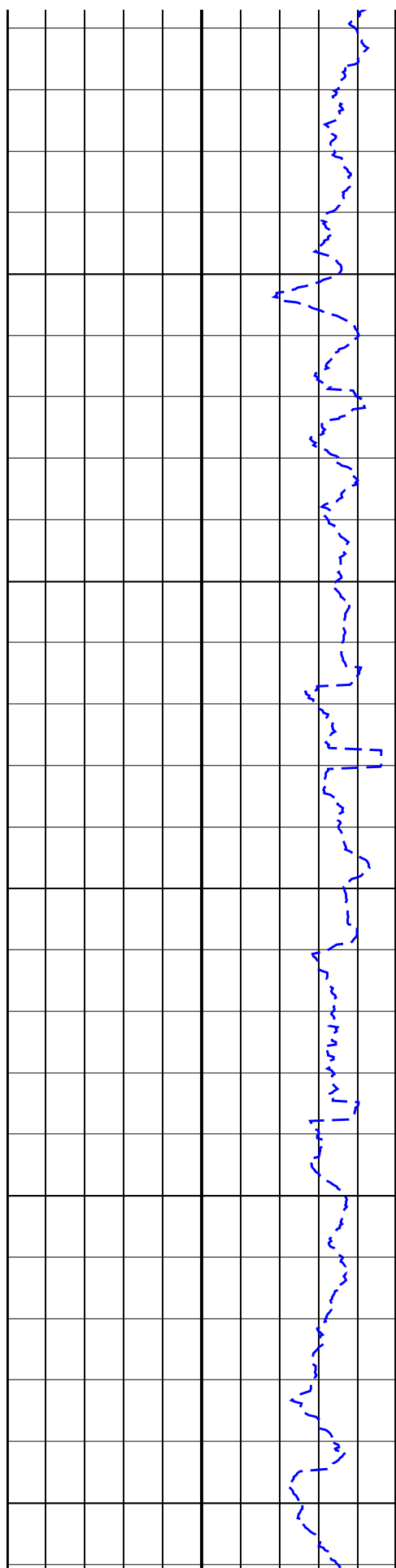


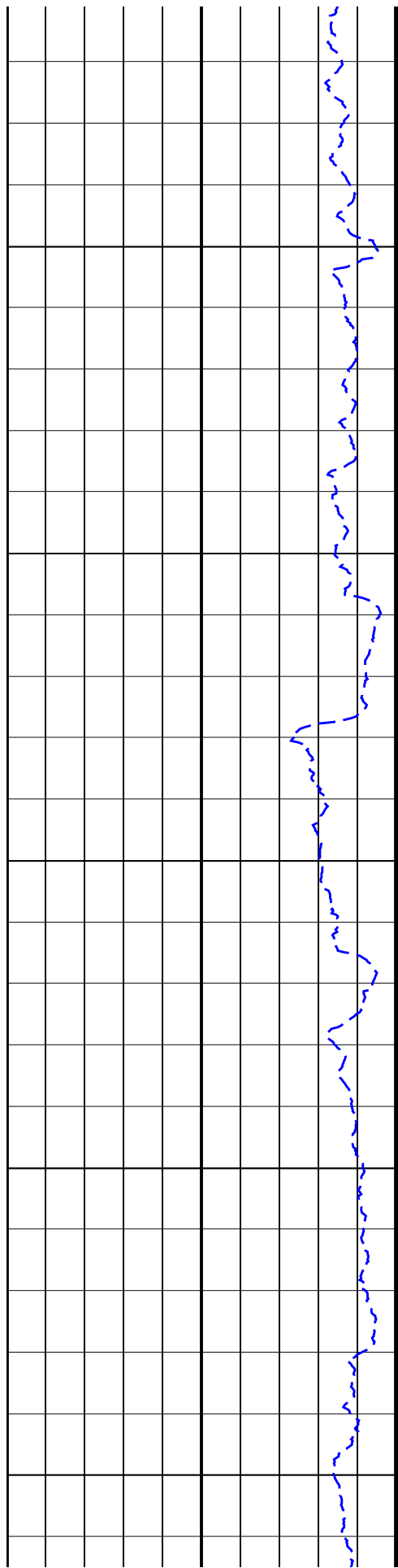
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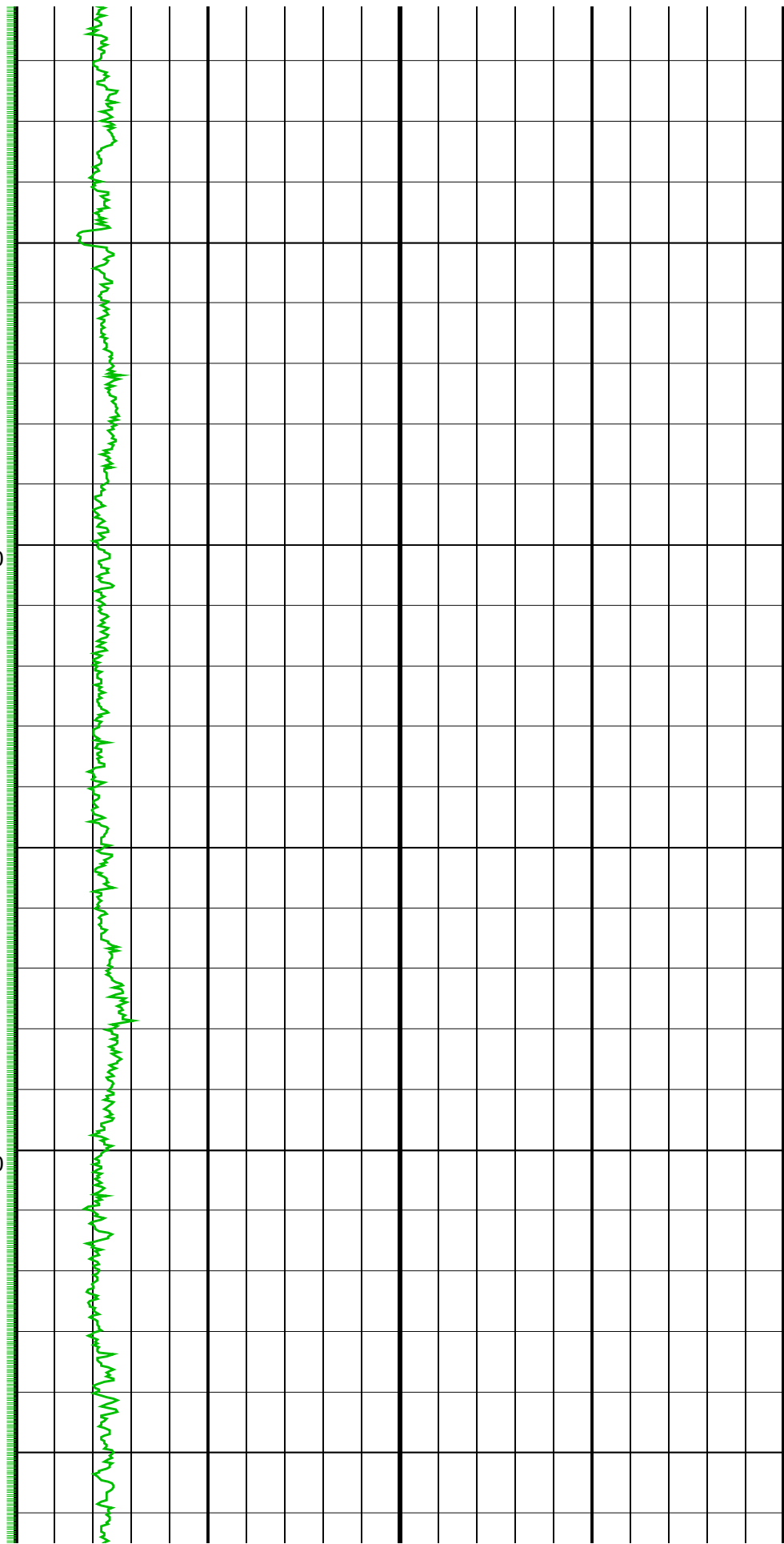


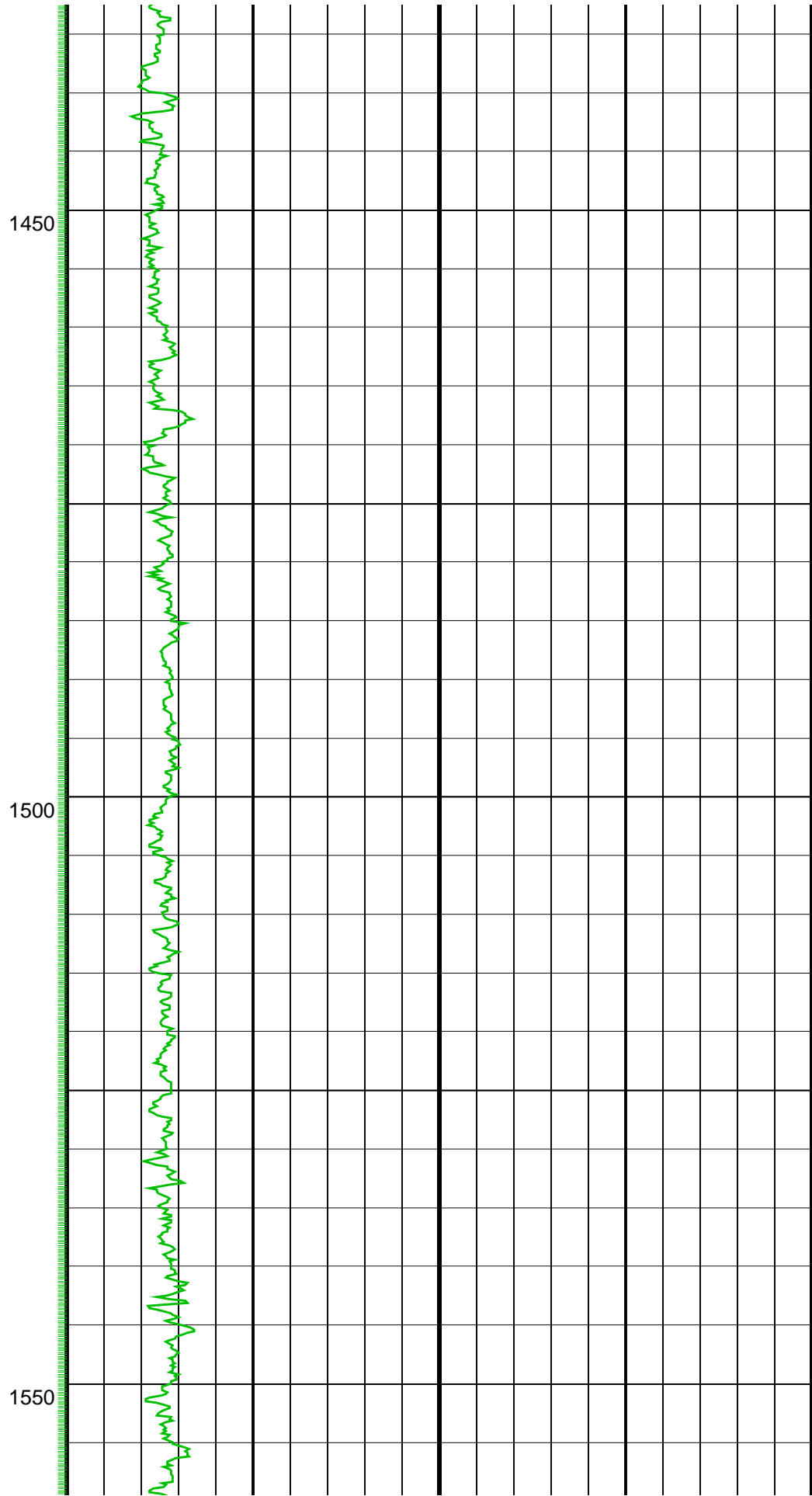
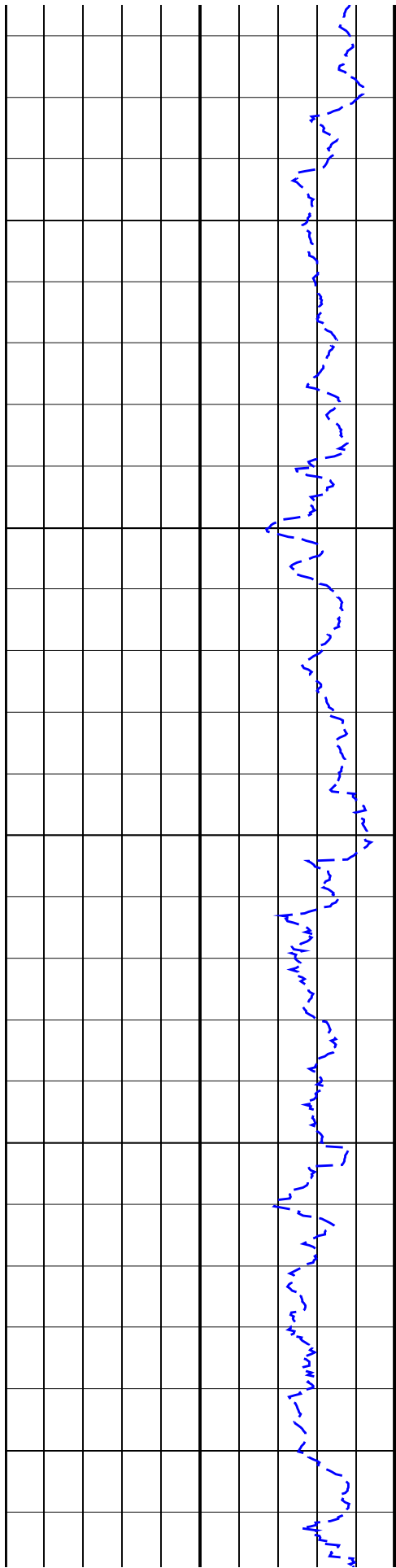


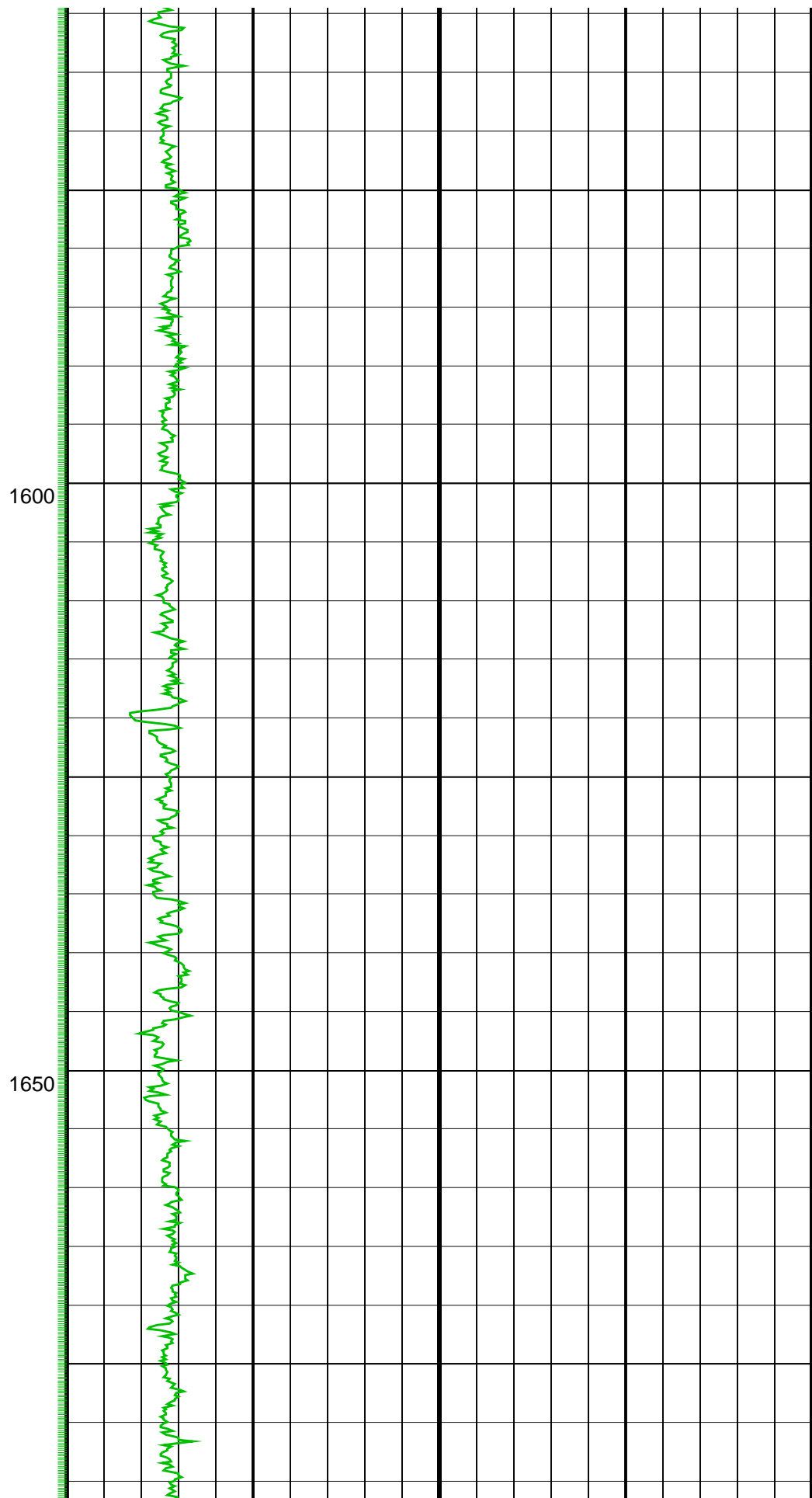
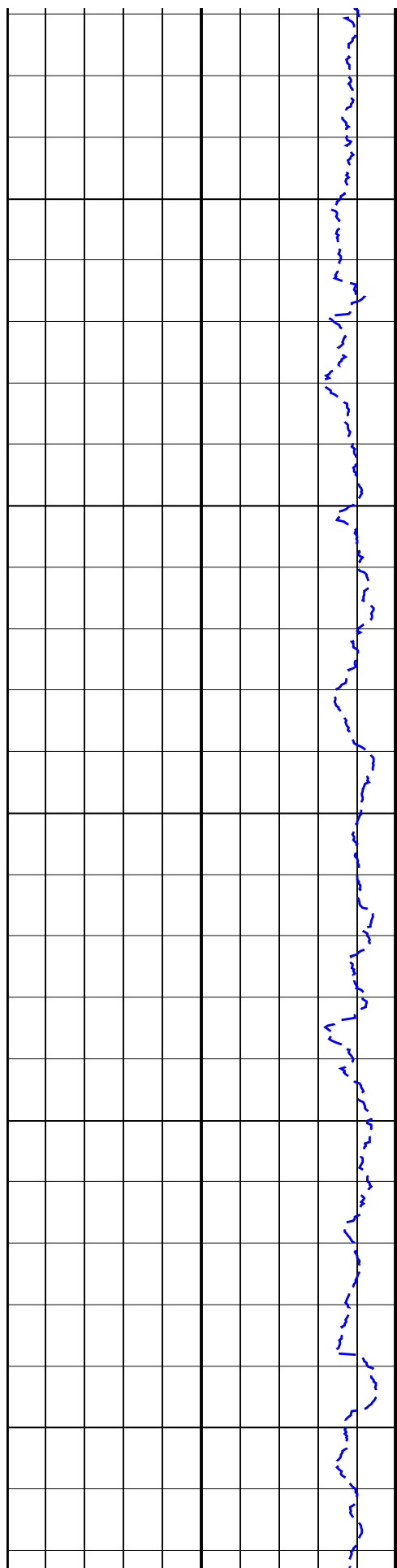


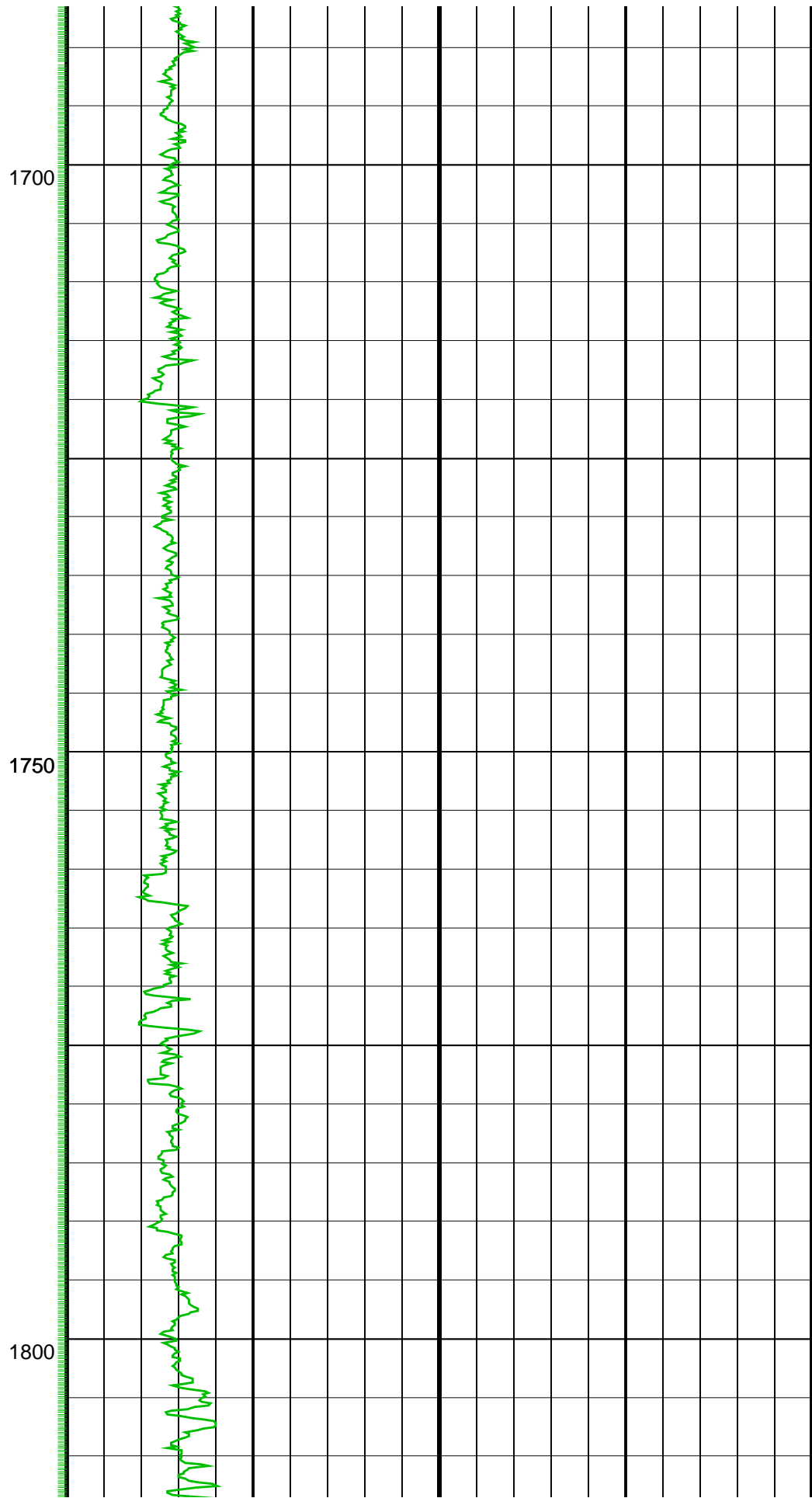
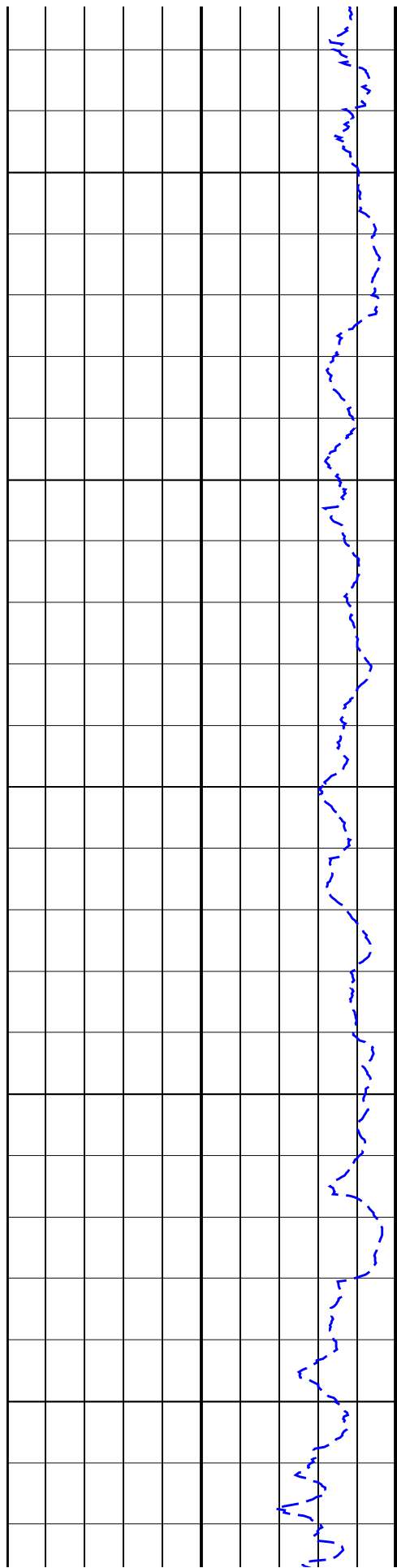
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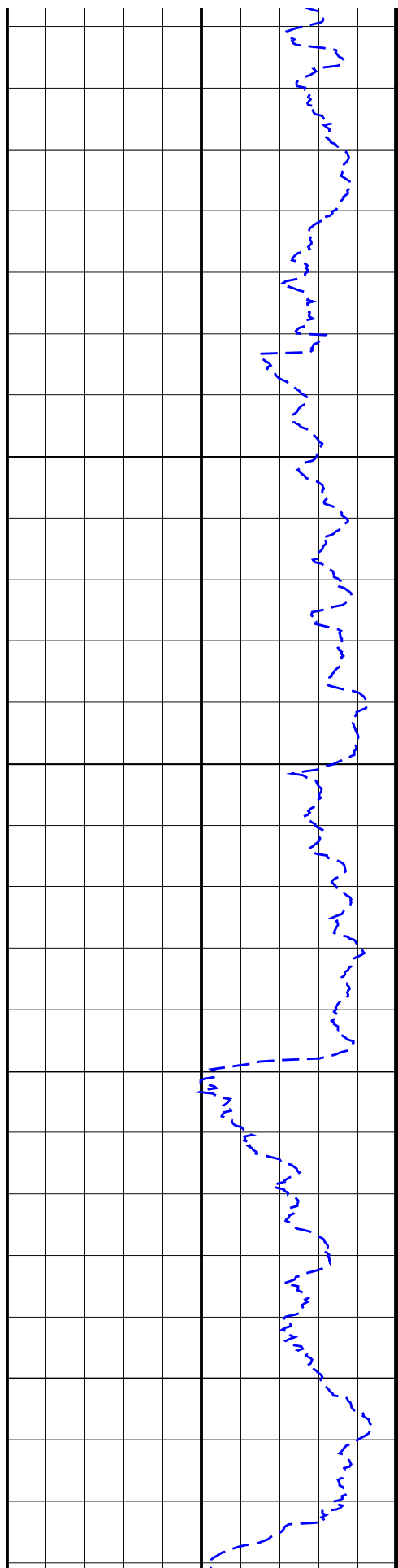
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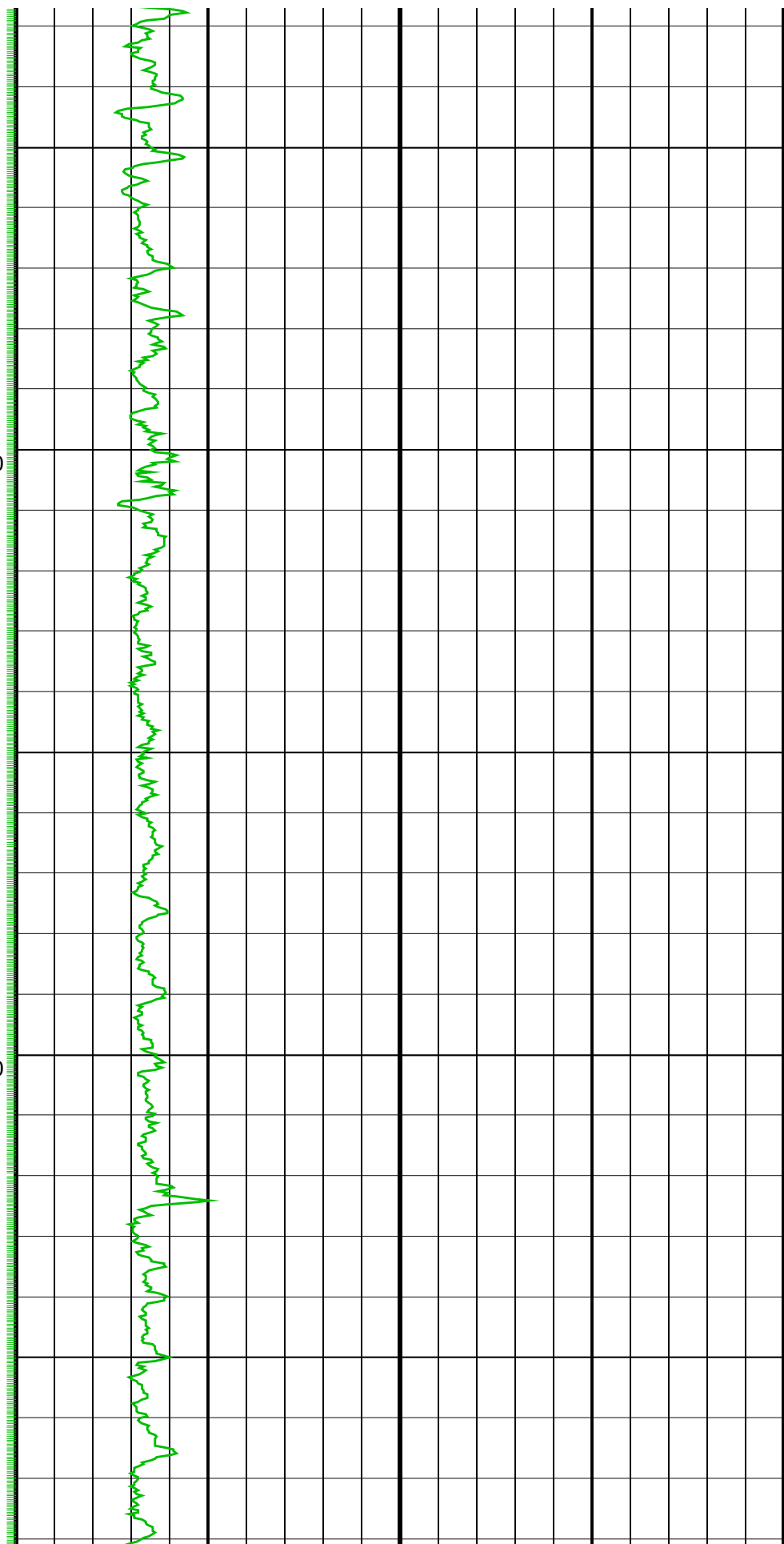


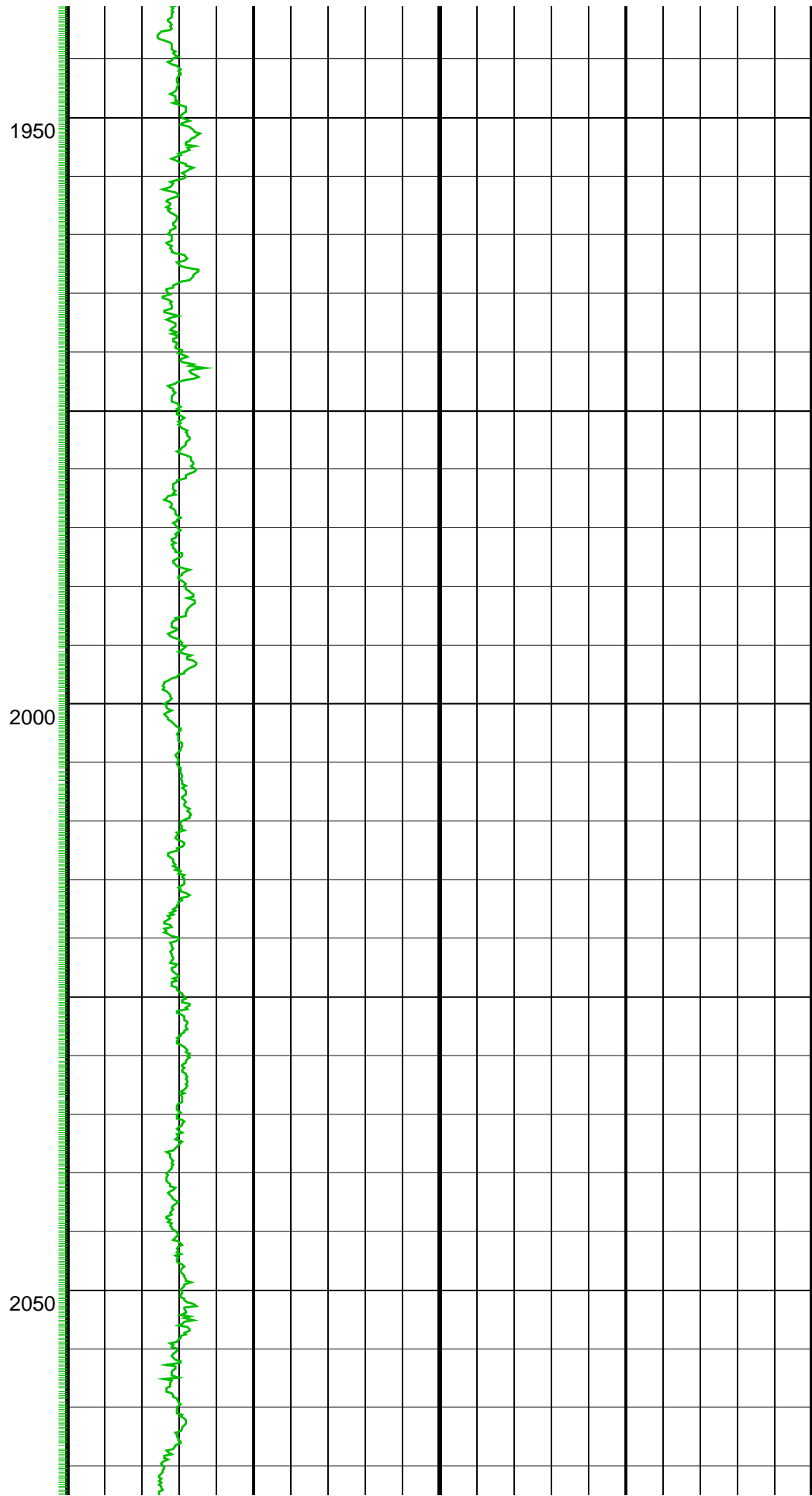
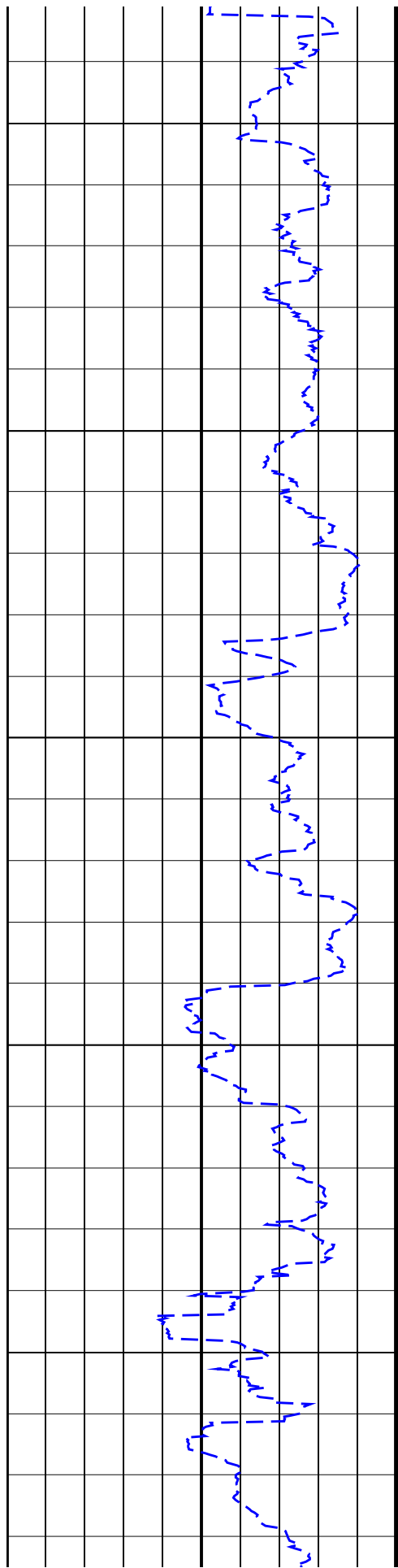


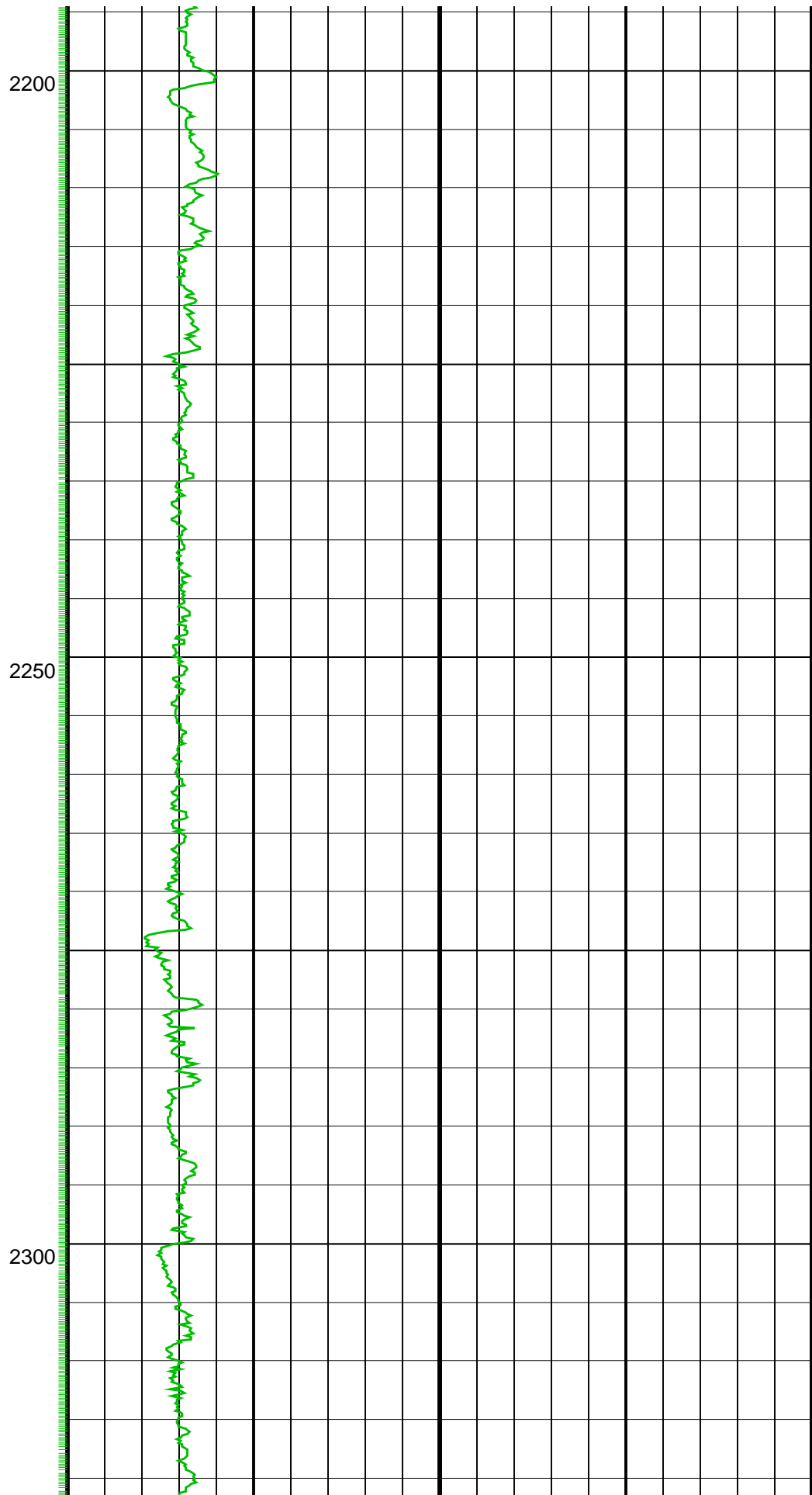
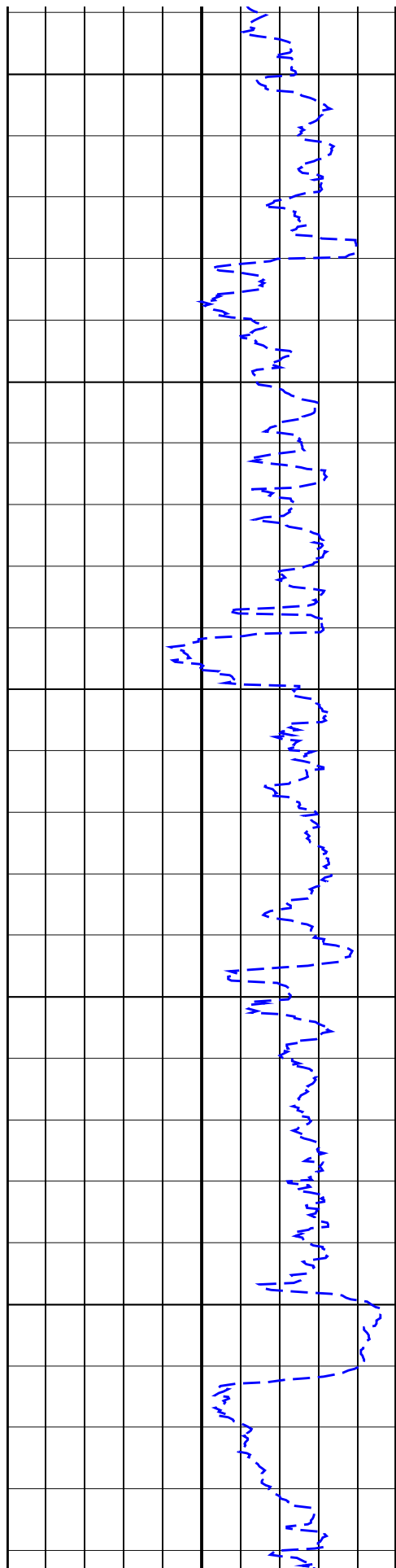


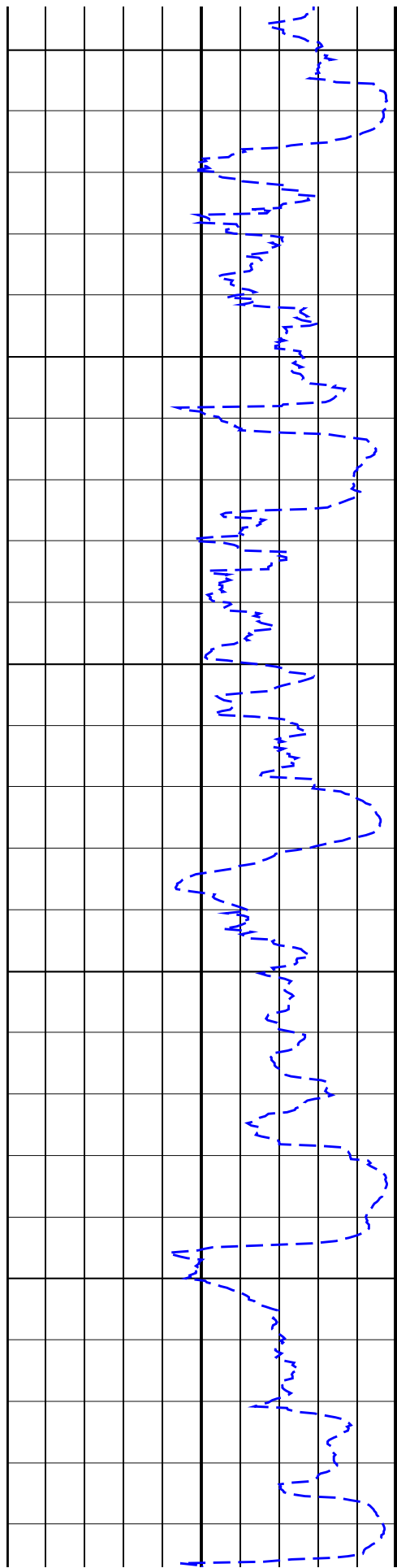
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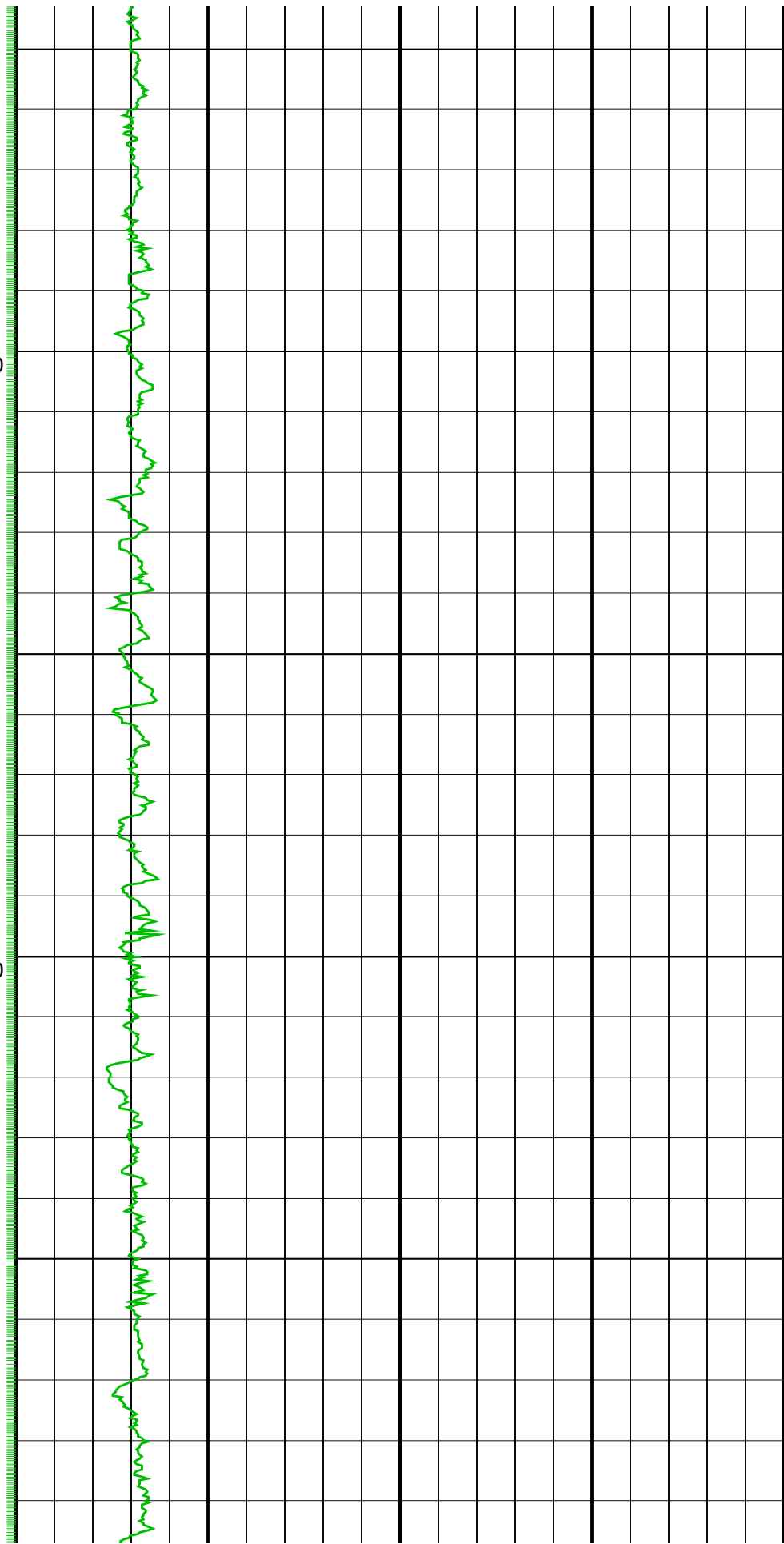


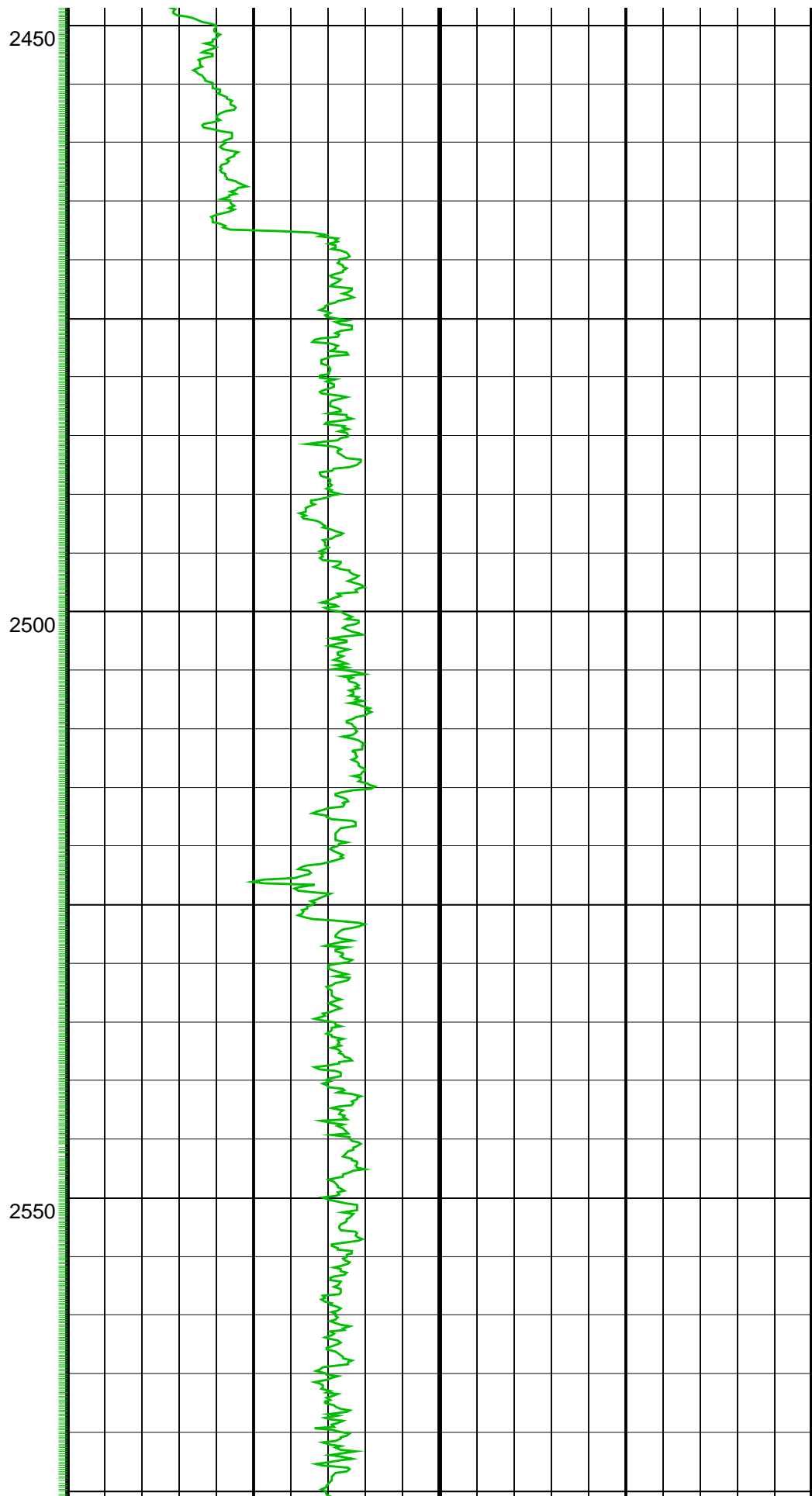
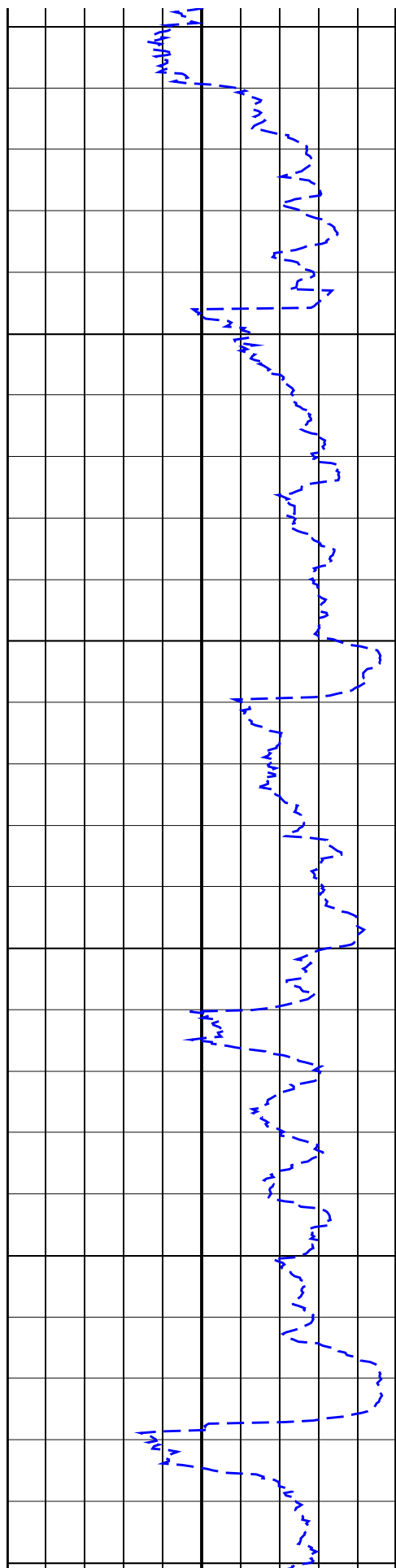


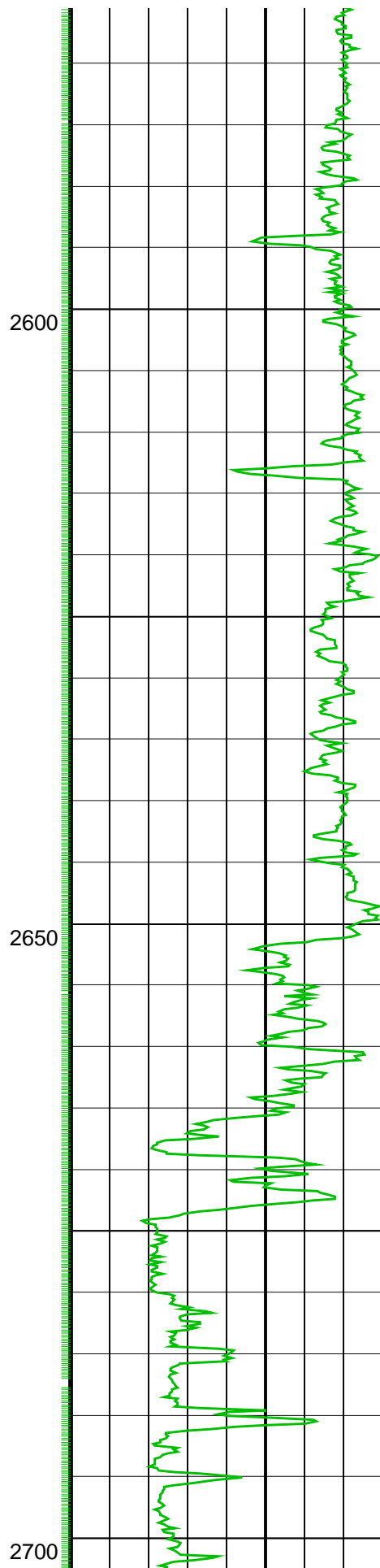
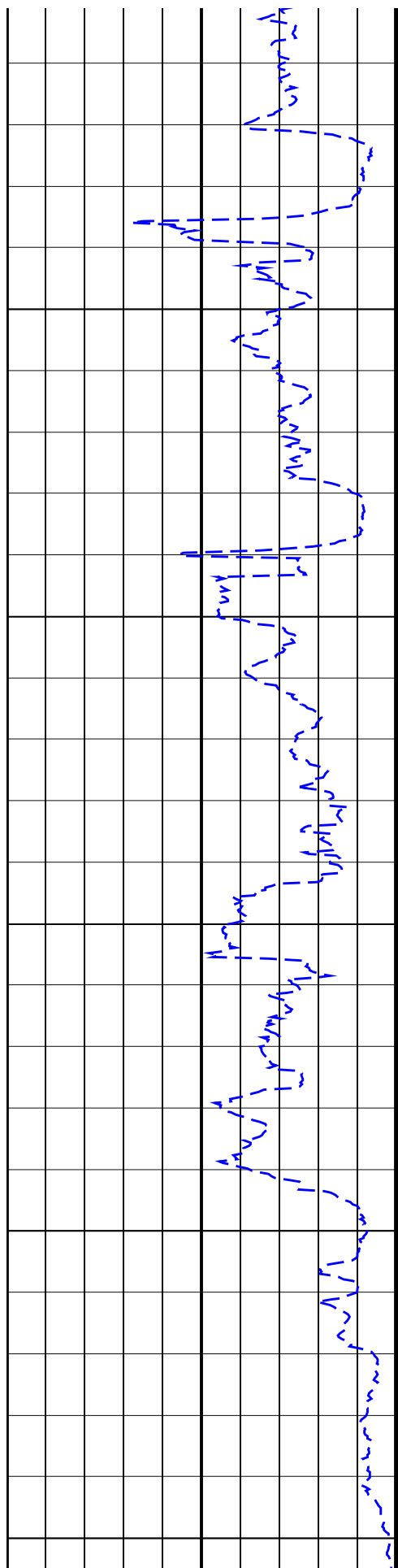


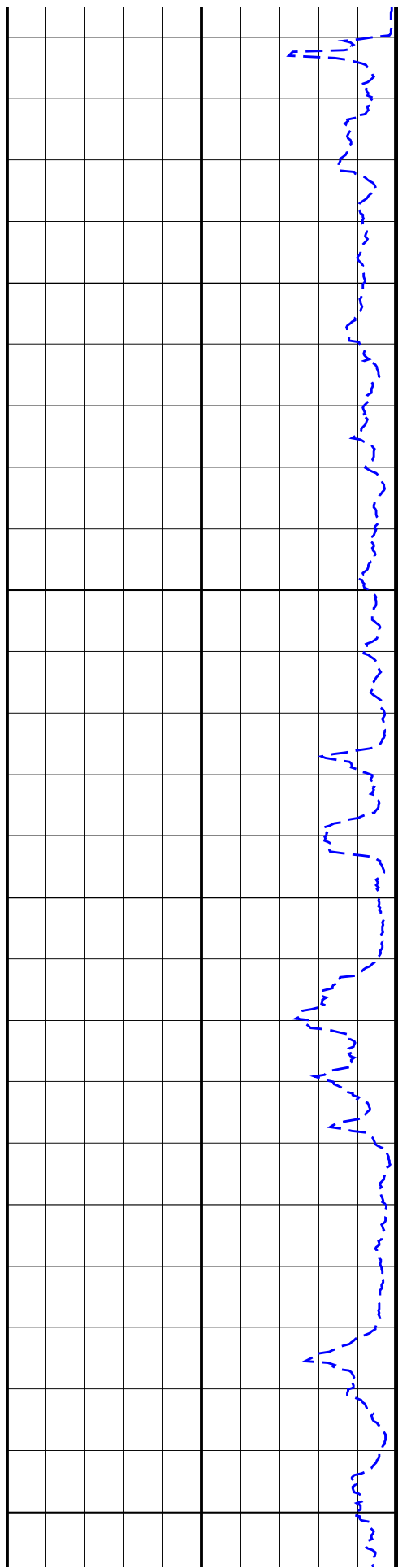
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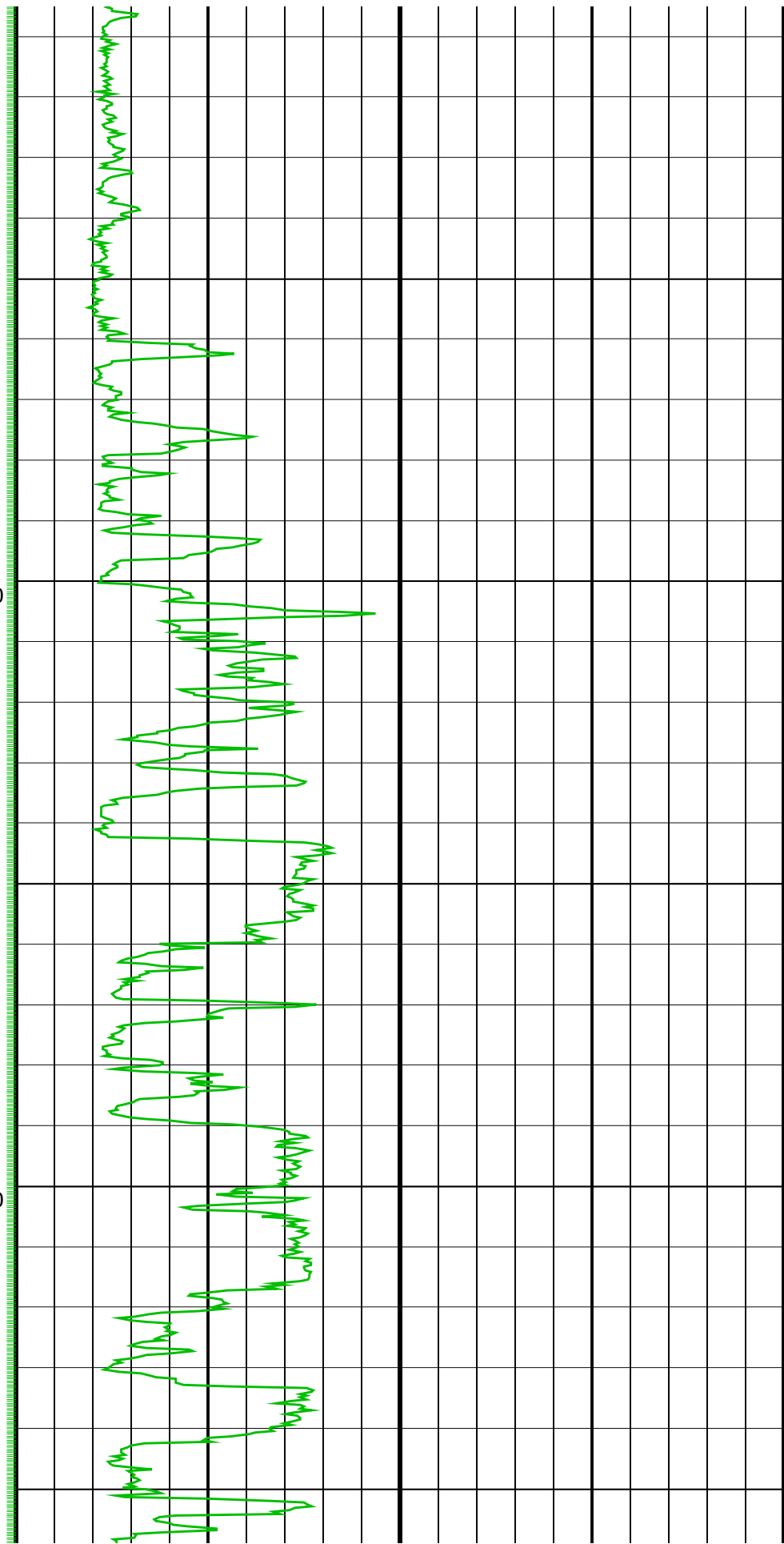


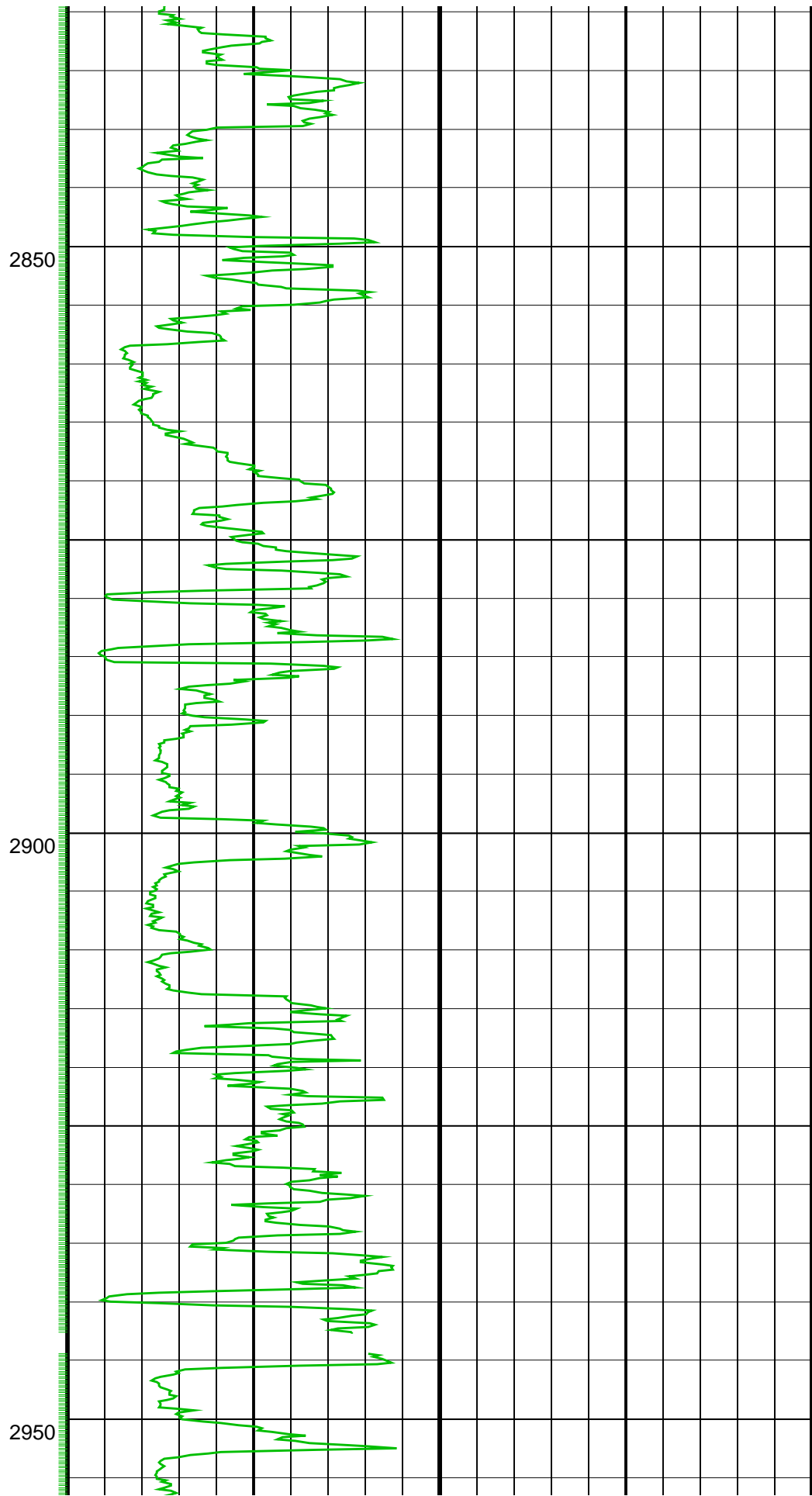
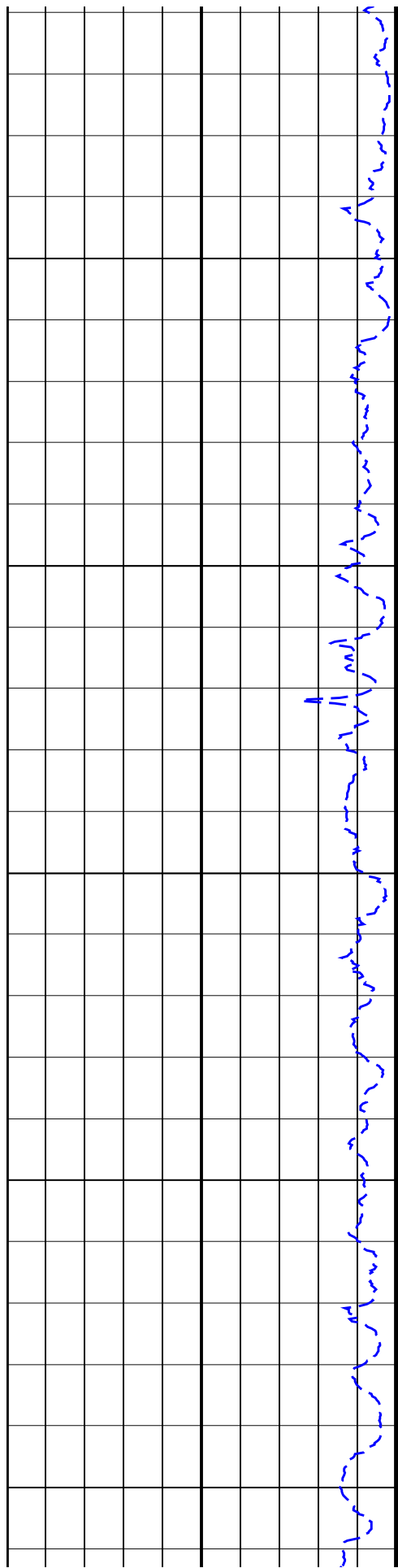


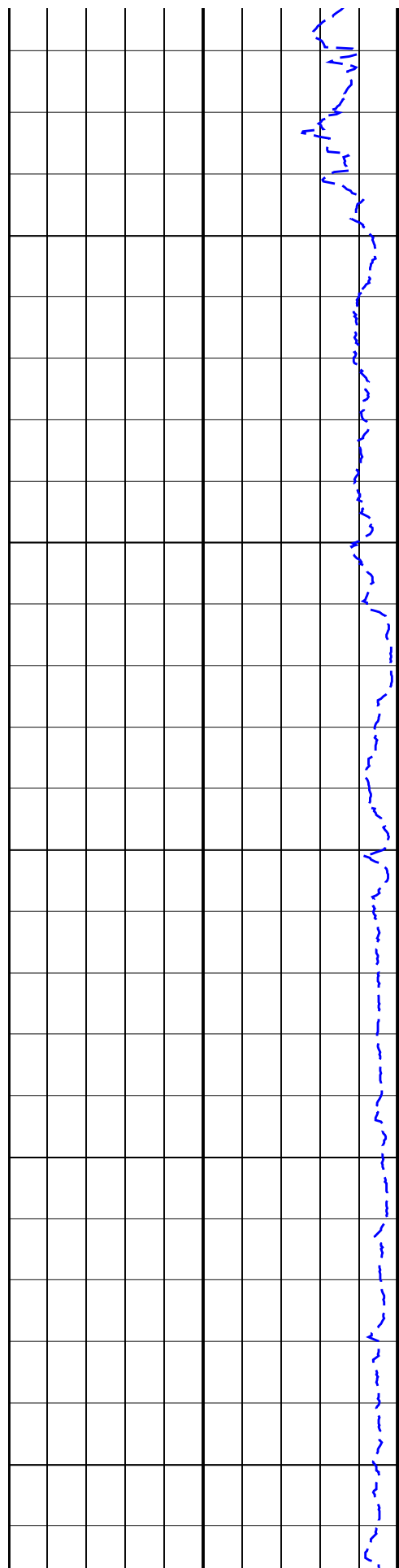


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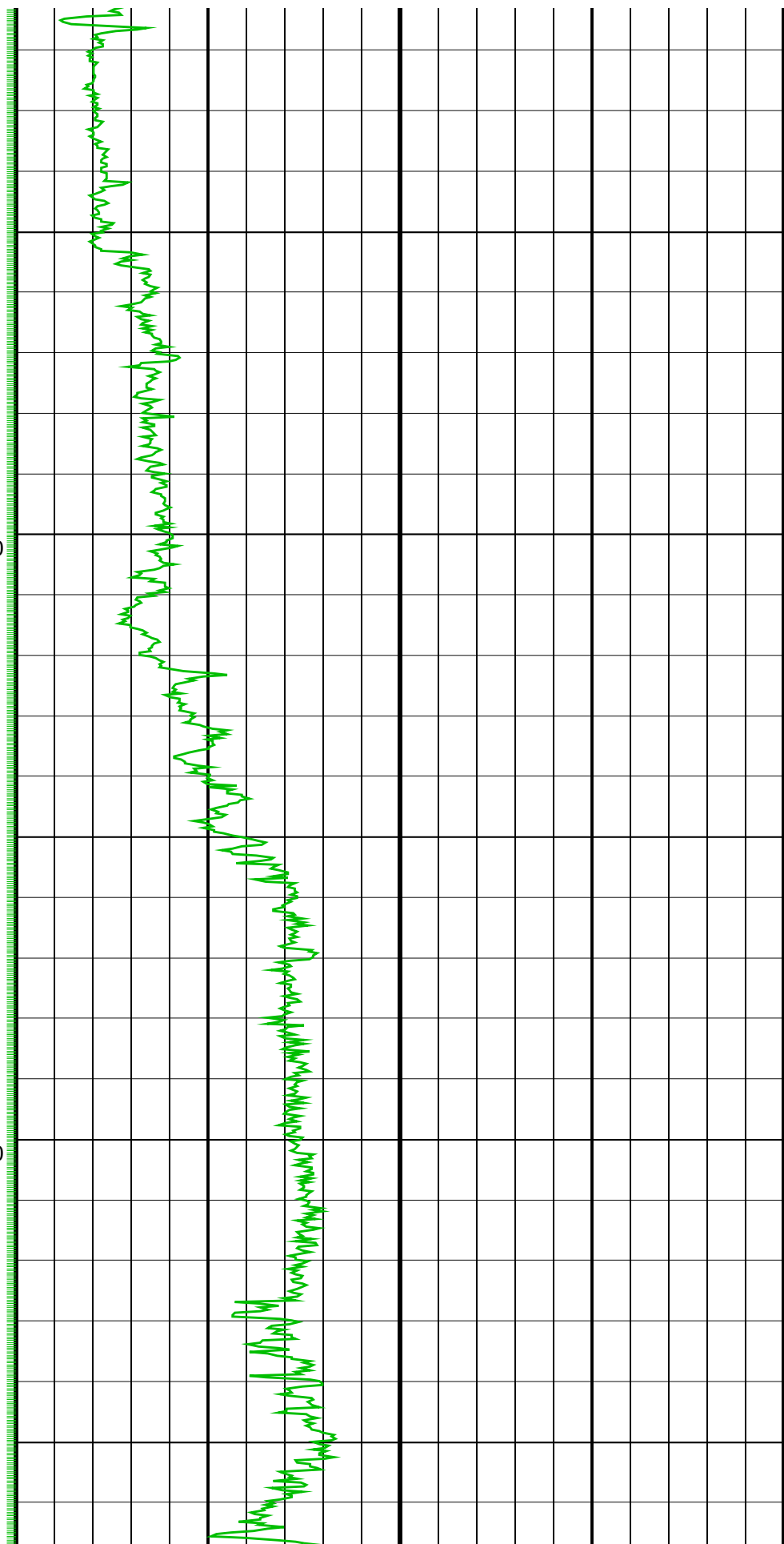


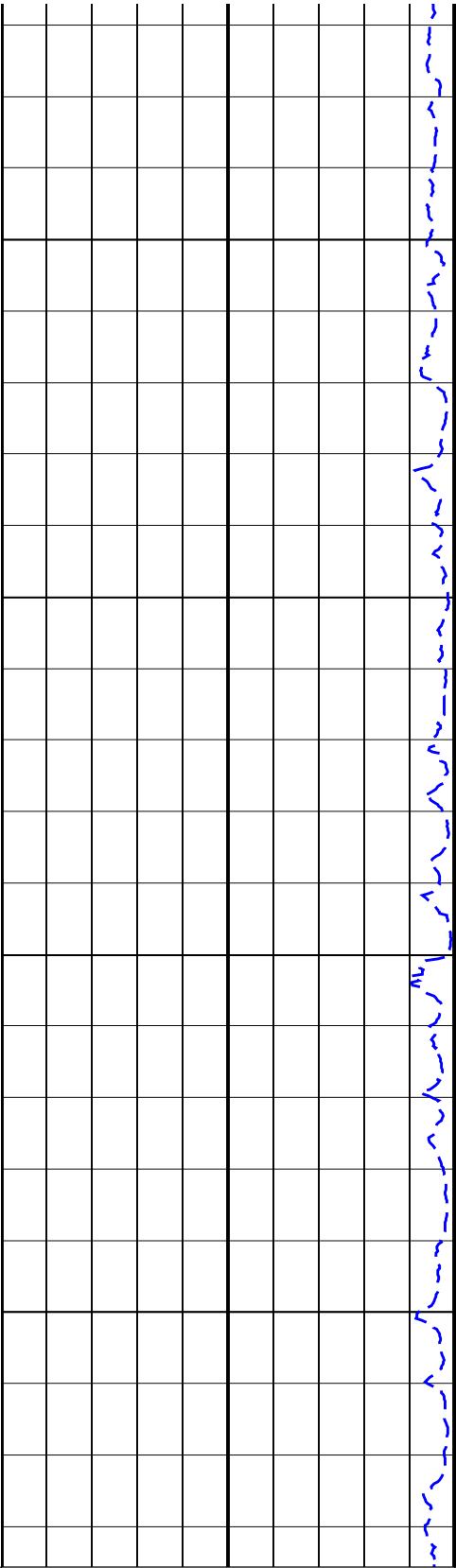




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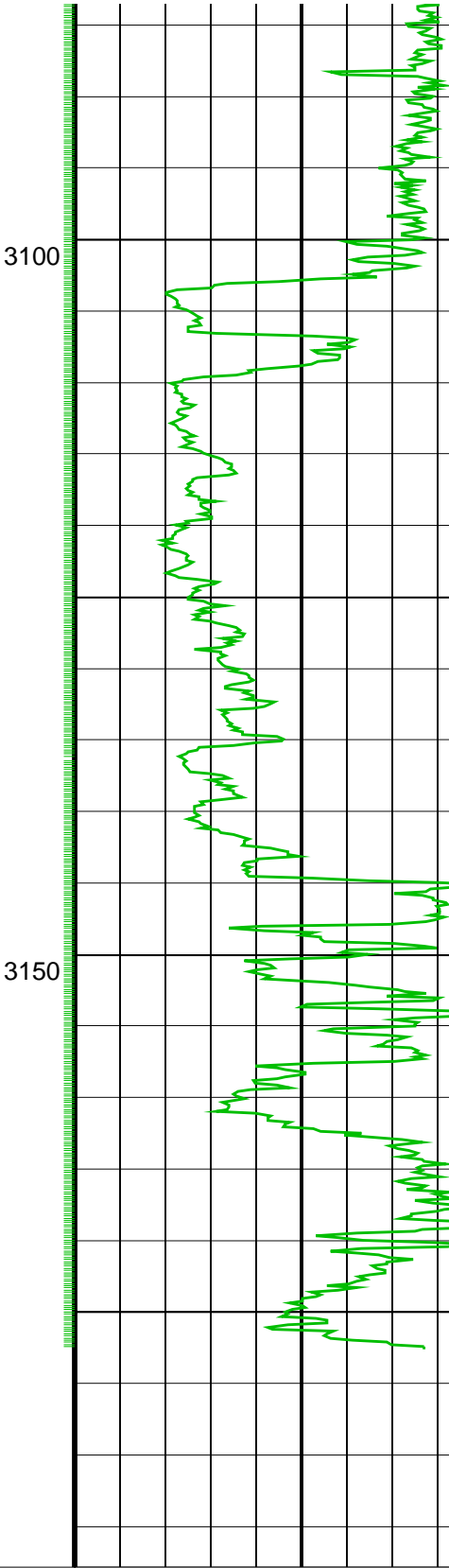
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ROP*5 (ROP5)
(M/HR)

200 0



GR(TM) (GRM1)
(GAPI)

3100 3150

0 400

PIP SUMMARY

GR(TM) PIP

SCHLUMBERGER

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

Well.....: FLA A24a Spud date.....: 27-Feb-03
 API number.....: Last survey date.....: 14-Mar-03
 Engineer.....: K.Handley / J.Dolan Total accepted surveys...: 88
 MD of first survey.....: 694.20 m
 COUNTY.....: ISDL 453 MD of last survey.....: 3193.00 m
 STATE.....: VICTORIA

----- Survey calculation methods ----- Geomagnetic data -----
 Method for positions.....: Minimum curvature Magnetic model.....: BGGM version 2002
 Method for DLS.....: Mason & Taylor Magnetic date.....: 28-Feb-2003
 Magnetic field strength...: 1201.04 HCNT
 ----- Depth reference ----- Magnetic dec (+E/W-).....: 13.22 degrees
 Permanent datum.....: MEAN SEA LEVEL Magnetic dip.....: -68.77 degrees
 Depth reference.....: Driller's Tally
 GL above permanent.....: -93.00 m ----- MWD survey Reference Criteria -----
 KB above permanent.....: 33.85 m Reference G.....: 1000.03 mGal
 DF above permanent.....: 126.85 m Reference H.....: 1201.04 HCNT
 Reference Dip.....: -68.77 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-).....: -304.57 m Magnetic dec (+E/W-).....: 13.22 degrees
 Departure (+E/W-).....: -304.57 m Grid convergence (+E/W-).....: -0.89 degrees
 Total az corr (+E/W-).....: 14.11 degrees
 Azimuth from rotary table to target: 136.32 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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 SCHLUMBERGER Survey Report

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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)	
1	694.20	41.31	150.15	0.00	620.73	225.27	-218.33	108.36	235.51	153.60	0.00	TIP	-94.76G
2	732.51	41.15	145.60	38.31	649.55	250.17	-239.71	121.78	260.55	153.07	2.35	MWD	162.23G
3	760.66	39.93	146.21	28.15	670.94	268.32	-254.86	132.04	278.64	152.61	1.37	MWD	8.77G
4	789.10	40.35	146.31	28.44	692.68	286.49	-270.10	142.22	296.81	152.23	0.45	MWD	-106.67G
5	817.85	39.83	143.41	28.75	714.68	304.89	-285.24	152.87	315.11	151.81	2.02	MWD	-81.06G
6	845.99	39.98	142.01	28.14	736.27	322.89	-299.60	163.81	332.88	151.33	0.97	MWD	-97.29G
7	871.98	39.82	139.80	25.99	756.21	339.55	-312.54	174.32	349.21	150.85	1.65	MWD	-105.30G
8	903.48	39.42	137.35	31.50	780.47	359.63	-327.60	187.61	368.77	150.20	1.54	MWD	-101.90G
9	932.04	39.09	134.63	28.56	802.59	377.68	-340.59	200.16	386.23	149.56	1.84	MWD	-150.92G
10	960.81	38.41	134.02	28.77	825.02	395.64	-353.18	213.04	403.54	148.90	0.81	MWD	12.30G
11	990.58	39.52	134.40	29.77	848.17	414.30	-366.23	226.46	421.59	148.27	1.14	MWD	16.20G
12	1019.66	40.30	134.75	29.08	870.48	432.92	-379.33	239.75	439.67	147.71	0.84	MWD	127.59G
13	1048.63	39.99	135.38	28.97	892.62	451.56	-392.55	252.94	457.85	147.20	0.53	MWD	22.78G
14	1077.10	41.69	136.45	28.47	914.16	470.16	-405.92	265.89	476.06	146.77	1.94	MWD	50.32G
15	1105.11	42.07	137.13	28.01	935.02	488.85	-419.55	278.69	494.44	146.41	0.63	MWD	15.64G
16	1133.78	42.19	137.18	28.67	956.28	508.07	-433.65	291.77	513.39	146.07	0.13	MWD	51.70G
17	1162.95	42.35	137.48	29.17	977.86	527.69	-448.08	305.07	532.75	145.75	0.26	MWD	84.40G
18	1191.40	42.36	137.63	28.45	998.89	546.85	-462.22	318.00	551.70	145.47	0.11	MWD	146.20G
19	1219.88	42.08	137.91	28.48	1019.98	565.99	-476.39	330.87	570.64	145.22	0.36	MWD	-88.33G
20	1247.91	42.11	136.70	28.03	1040.78	584.77	-490.20	343.61	589.22	144.97	0.87	MWD	-25.93G
21	1276.83	42.29	136.57	28.92	1062.20	604.19	-504.33	356.95	608.42	144.71	0.21	MWD	141.15G
22	1305.63	42.19	136.69	28.80	1083.52	623.54	-518.40	370.24	627.56	144.47	0.13	MWD	81.89G
23	1334.39	42.24	137.20	28.76	1104.82	642.85	-532.52	383.43	646.70	144.24	0.36	MWD	-113.13G
24	1363.28	41.60	134.86	28.89	1126.32	662.13	-546.41	396.83	665.78	144.01	1.75	MWD	-156.09G
25	1391.88	40.69	134.24	28.60	1147.86	680.91	-559.61	410.24	684.32	143.76	1.05	MWD	131.34G
26	1420.77	39.93	135.60	28.89	1169.89	699.56	-572.81	423.47	702.76	143.52	1.21	MWD	93.16G
27	1449.38	39.91	136.21	28.61	1191.83	717.90	-585.99	436.25	720.94	143.33	0.41	MWD	97.49G
28	1477.58	39.89	136.45	28.20	1213.47	735.97	-599.08	448.74	738.88	143.16	0.17	MWD	-33.56G
29	1506.58	40.32	136.01	29.00	1235.65	754.64	-612.57	461.66	757.41	143.00	0.53	MWD	60.02G

30 1535.40 40.41 136.25 28.82 1257.61 773.29 -626.02 474.60 775.93 142.83 0.19 MWD 87.29G

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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 (deg)	At Azim (deg)	DLS (deg)	Srvy Tool	Tool Corr
31	1563.85	40.43	136.85	28.45	1279.27	791.72	-639.41	487.29	749.25	142.69	0.41	MWD	109.64G
32	1592.57	40.40	136.98	28.72	1301.13	810.33	-653.01	500.00	812.76	142.56	0.09	MWD	-39.86G
33	1621.55	40.47	136.89	28.98	1323.19	829.12	-666.75	512.84	831.46	142.43	0.09	MWD	62.24G
34	1650.05	40.58	137.21	28.50	1344.85	847.63	-680.30	525.46	849.88	142.32	0.25	MWD	-144.20G
35	1678.92	40.49	137.11	28.87	1366.79	866.39	-694.06	538.21	868.56	142.21	0.12	MWD	132.91G
36	1706.48	40.31	137.41	27.56	1387.78	884.25	-707.18	550.34	886.34	142.11	0.29	MWD	-129.01G
37	1735.26	40.19	137.18	28.78	1409.75	902.84	-720.84	562.95	904.86	142.01	0.20	MWD	53.00G
38	1763.87	40.52	137.85	28.61	1431.55	921.36	-734.50	575.46	923.32	141.92	0.57	MWD	-126.90G
39	1792.28	39.49	135.65	28.41	1453.31	939.61	-747.81	587.97	941.50	141.82	1.85	MWD	-146.86G
40	1820.94	39.20	135.35	28.66	1475.48	957.76	-760.77	600.71	959.55	141.71	0.36	MWD	173.58G
41	1849.67	38.70	135.44	28.73	1497.82	975.79	-773.63	613.39	977.49	141.59	0.53	MWD	5.52G
42	1878.38	39.76	135.60	28.71	1520.06	993.92	-786.58	626.11	995.54	141.48	1.11	MWD	-131.49G
43	1907.68	39.32	134.81	29.30	1542.65	1012.54	-799.82	639.25	1014.07	141.37	0.68	MWD	39.32G
44	1936.69	39.99	135.66	29.01	1564.99	1031.02	-812.96	652.29	1032.46	141.26	0.89	MWD	-162.70G
45	1965.67	39.50	135.42	28.98	1587.27	1049.53	-826.19	665.26	1050.89	141.16	0.53	MWD	31.11G
46	1994.11	39.98	135.87	28.44	1609.14	1067.69	-839.19	677.98	1068.98	141.07	0.59	MWD	-60.31G
47	2022.49	40.15	136.33	28.38	1630.86	1085.94	-852.35	690.64	1087.17	140.98	0.36	MWD	179.46G
48	2050.50	39.47	136.34	28.01	1652.38	1103.85	-865.32	703.02	1105.04	140.91	0.73	MWD	-5.05G
49	2079.08	40.35	136.22	28.58	1674.30	1122.18	-878.57	715.70	1123.31	140.83	0.93	MWD	67.59G
50	2108.25	40.62	137.21	29.17	1696.49	1141.10	-892.36	728.68	1142.19	140.77	0.72	MWD	-41.18G
51	2137.33	41.38	136.21	29.08	1718.43	1160.17	-906.25	741.76	1161.21	140.70	1.04	MWD	160.90G
52	2165.98	40.87	136.48	28.65	1740.01	1179.00	-919.88	754.77	1188.00	140.63	0.57	MWD	171.55G
53	2194.60	40.09	136.66	28.62	1761.78	1197.57	-933.37	767.54	1198.52	140.57	0.83	MWD	-175.28G
54	2223.00	39.55	136.59	28.40	1783.60	1215.75	-946.59	780.03	1216.66	140.51	0.57	MWD	134.09G
55	2251.32	39.47	136.72	28.32	1805.45	1233.75	-959.69	792.40	1234.63	140.45	0.12	MWD	-177.32G
56	2279.84	38.67	136.66	28.52	1827.59	1251.72	-972.77	804.73	1252.56	140.40	0.84	MWD	-36.45G
57	2308.35	39.15	136.10	28.51	1849.77	1269.91	-985.74	817.08	1270.42	140.34	0.63	MWD	12.96G
58	2337.34	39.26	136.14	28.98	1872.23	1287.91	-998.94	829.78	1288.68	140.28	0.12	MWD	40.34G
59	2366.20	39.69	136.71	28.87	1894.51	1306.26	-1012.24	842.43	1306.99	140.23	0.58	MWD	-130.24G
60	2394.20	39.38	136.13	28.00	1916.11	1324.07	-1025.15	854.72	1324.77	140.18	0.52	MWD	16.79G

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SCHLUMBERGER Survey Report

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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 (deg)	At Azim (deg)	DLS (deg)	Srvy Tool	Tool Corr
61	2423.64	40.15	136.49	29.44	1938.74	1342.88	-1038.77	867.73	1343.55	140.13	0.82	MWD	-74.87G
62	2452.22	40.26	135.87	28.58	1960.57	1361.32	-1052.08	880.50	1361.95	140.07	0.44	MWD	-169.70G
63	2480.90	39.49	135.65	28.68	1982.58	1379.68	-1065.25	893.33	1380.28	140.02	0.82	MWD	-154.58G
64	2509.74	39.33	135.53	28.84	2004.86	1397.97	-1078.33	906.14	1398.53	139.96	0.18	MWD	-173.94G
65	2537.77	38.11	135.32	28.03	2026.73	1415.47	-1090.82	918.45	1416.01	139.90	1.31	MWD	-143.80G
66	2566.37	37.44	134.51	28.60	2049.33	1432.96	-1103.19	930.85	1443.45	139.84	0.87	MWD	-91.54G
67	2594.82	37.43	133.75	28.45	2071.92	1450.20	-1115.23	943.26	1450.65	139.78	0.49	MWD	-127.33G
68	2623.90	37.11	133.05	29.08	2095.07	1467.74	-1127.33	956.06	1468.15	139.70	0.55	MWD	177.88G
69	2652.58	36.31	133.10	28.68	2118.06	1484.80	-1139.04	968.58	1485.17	139.62	0.84	MWD	-73.46G
70	2681.60	36.43	132.43	29.02	2141.42	1501.92	-1150.72	981.21	1502.25	139.55	0.43	MWD	-126.46G
71	2711.66	36.23	131.97	30.06	2165.64	1519.62	-1162.68	994.41	1519.91	139.46	0.34	MWD	-152.05G
72	2740.02	34.93	130.76	28.36	2188.71	1535.99	-1173.59	1006.79	1536.24	139.37	1.56	MWD	-166.98G
73	2767.80	32.15	129.55	27.78	2211.86	1551.17	-1183.49	1018.51	1551.38	139.28	3.09	MWD	-148.23G
74	2797.39	27.22	122.65	29.59	2237.56	1565.47	-1192.16	1030.29	1565.63	139.17	6.07	MWD	-154.94G
75	2825.31	22.53	116.80	27.92	2262.89	1576.59	-1198.02	1040.45	1576.69	139.03	5.69	MWD	-169.23G
76	2854.44	16.79	113.35	29.13	2290.31	1585.57	-1202.19	1049.31	1585.64	138.88	6.05	MWD	-176.62G
77	2883.30	11.40	111.39	28.86	2318.29	1591.88	-1204.86	1055.81	1591.92	138.77	5.62	MWD	180.00G
78	2912.44	6.49	111.47	29.14	2347.07	1595.91	-1206.51	1060.03	1595.93	138.70	5.05	MWD	-168.58G
79	2969.94	4.32	105.58	57.50	2404.31	1600.62	-1208.29	1065.14	1600.63	138.60	1.17	MWD	115.77M
80	2998.76	4.32	115.77	28.82	2433.05	1602.53	-1209.05	1067.16	1602.54	138.57	0.80	MWD	129.69M
81	3027.48	4.24	129.69	28.72	2461.69	1604.58	-1210.20	1068.95	1604.58	138.55	1.09	MWD	122.32M
82	3056.14	2.96	122.32	28.66	2490.29	1606.33	-1211.27	1070.39	1606.34	138.53	1.42	MWD	119.94M
83	3084.79	2.98	119.94	28.65	2518.90	1607.75	-1212.04	1071.66	1607.75	138.52	0.13	MWD	122.40M

84	3113.07	3.04	122.40	28.28	2547.15	1609.17	-1212.81	1072.93	1609.17	138.50	0.15	MWD	124.03M
85	3141.88	3.00	124.03	28.81	2575.91	1610.63	-1213.64	1074.20	1610.63	138.49	0.10	MWD	123.07M
86	3170.50	2.96	123.70	28.62	2604.50	1612.07	-1214.47	1075.44	1612.07	138.47	0.05	MWD	121.76M
87	3176.43	2.91	121.76	5.93	2610.42	1612.36	-1214.63	1075.69	1612.36	138.47	0.56	MWD	117.00M
88	3193.00	2.85	117.00	16.57	2626.97	1613.15	-1215.04	1076.42	1613.15	138.46	0.45	PROJECTION TO TD	

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Company: **ESSO Australia Ltd.**

Schlumberger

Well: **FLA A24a**

Field: **Flounder GDA 94**

Rig: **ISDL 453**

State: **VICTORIA**

**Gamma Ray Service
1:500 Measured Depth
Real Time Log**