

Depth logged:	844.50 m To 3122.63 m	Mag decl:	13.23°	Other services:
Date logged:	6-Mar-05 To 13-Mar-05	Mag dip:	-68.65°	Directional Drilling, D&I

DISCLAIMER

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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 844.5m to 3142.0m MD. Depth is referenced to Driller's Depth. Gamma Ray corrected for Tool Size, Bit Size and Mud Weight. Mud Type is KCL/PHPA/Glycol. POOH due to TD of TNA A14A.	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

Thank You for Choosing Schlumberger









EQUIPMENT DESCRIPTION

RUN1

RUN

RUN

DOWNHOLE EQUIPMENT

6-3/4 in. PowerPulse* MDC: V875 MEC: 1533-BB MDI: 1565-CA MGR: 565-AA DHS: 7.0C00		24.39
D&I		20.01
GR		19.37
		
6-5/8 in. NM Pony S/N: ASS15700		15.87
8-3/8 in. NM Roller Reamer S/N: GU2298		14.31
6-3/8 in. NM Pony S/N: ANA98-007		12.23
6-11/16 in. Float Sub S/N: CMP1544		9.59
7 in. PowerPak* Motor A700GT 7:8 S/N: 3380 1.41 deg. Bent Housing 8-3/8 in. Motor Sleeve		9.14



0.00

0.22

Smith PDC Bit
OD: 8–1/2 in.
S73VPX S/N: JT7330

Maximum string diameter 8.50 in.
All lengths in Meters

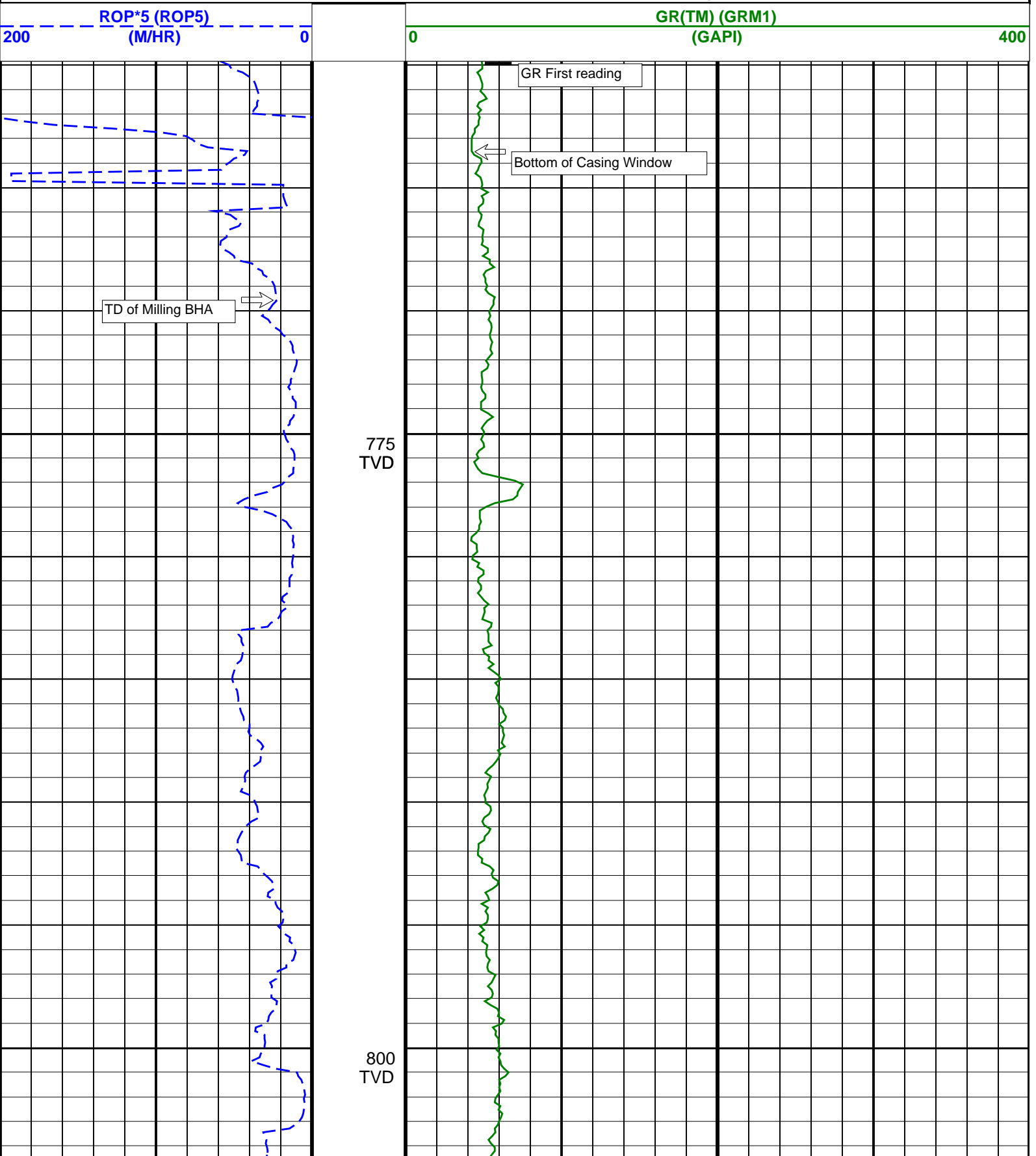
Bit Run Summary

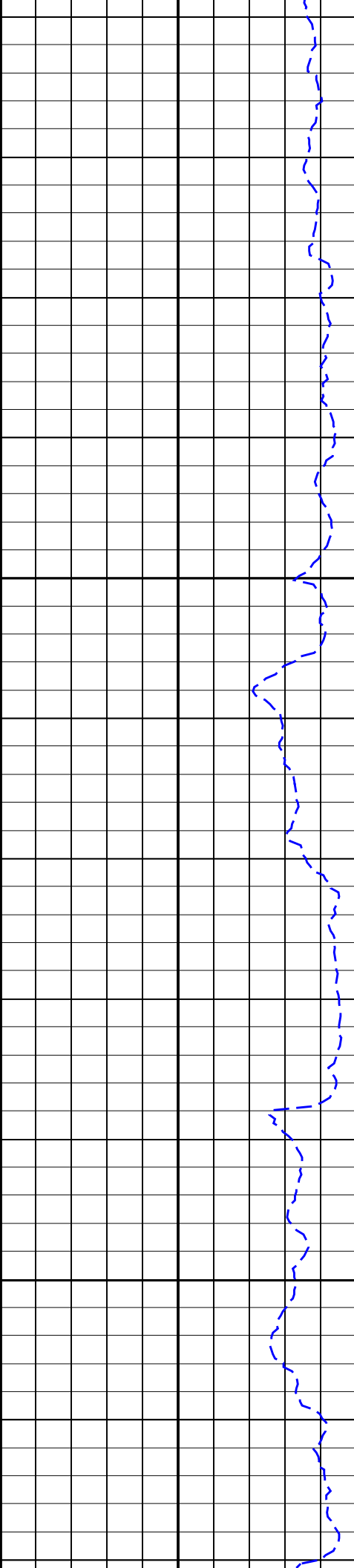
Run number		1									
Bit size	in.	8.5									
Bit start depth	m	844.5									
Bit end depth	m	3142.0									
Top interval logged	m	844.5									
Bottom interval logged	m	3122.6									
Begin log: time		18:30									
Begin log: date		5–Mar–05									
End log: time		14:10									
End log: date		13–Mar–05									
Mud data											
Depth	m	3142.0									
Type		KCl/PHPA/Gly.									
Mud weight	ppg	10.05									
Solids	%	9.4									
Chlorides	mg/L	43,000									
Rm		N/A									
Rmf		N/A									
Rmc		N/A									
Potassium	%	4.2									
Environmental data											
GR											
Mud weight	ppg	10.05									
Bit size	in.	8.5									
Resistivity											
Neutron porosity											
Hole Size											
Mud weight											
Temperature											
Mud salinity											
Formation salinity											
Recording rate 1	SEC	4.14									
Recording rate 2	SEC	N/A									
Filtering GR		3 pt.									
Filtering density		N/A									
Filtering Neutron		N/A									
Company representative		G. Steel	W. Westman	B.Davis							
Anadrill personnel		D. Hastie	L. Johnston	C. Cocks	T. Auger						

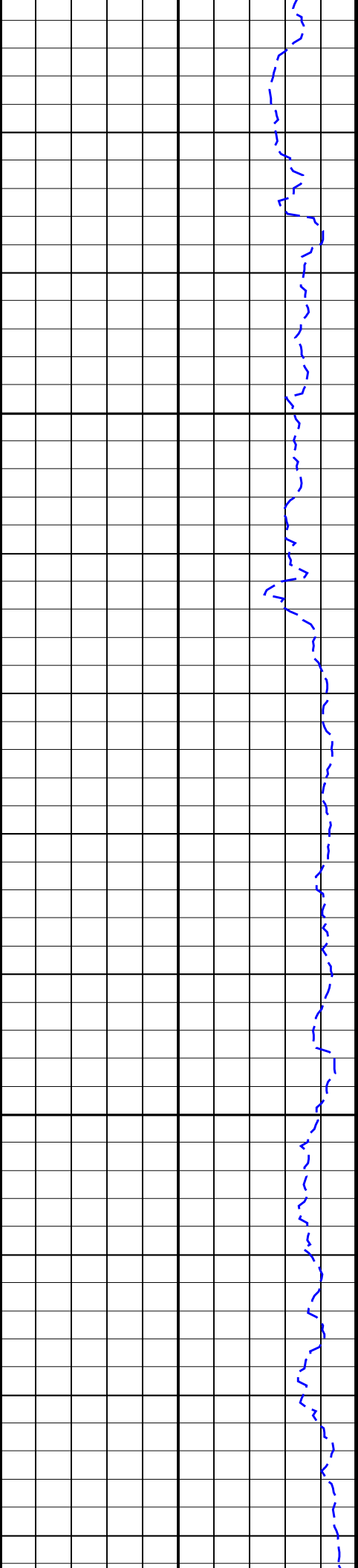
TNA A14A RT 1:200TVD

IDEAL Version: ID9_1C_02 <TVD> Vertical Scale: 1:200

Graphics File Created: 15-Mar-2005 11:42

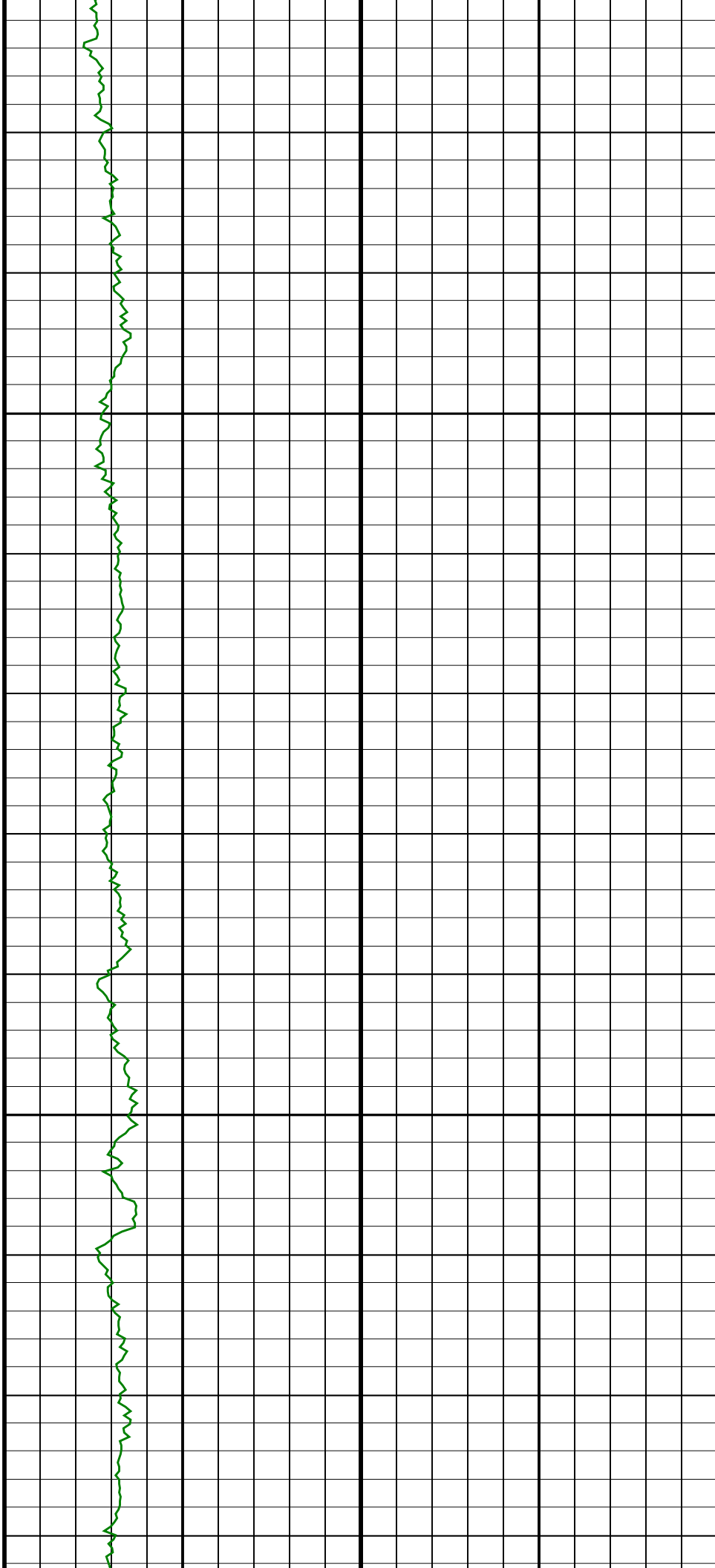


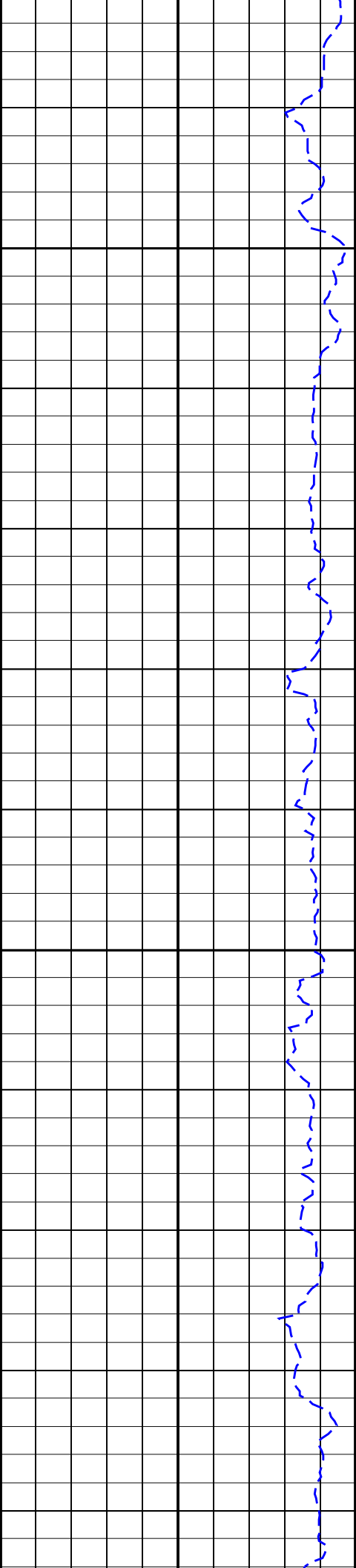




875
TVD

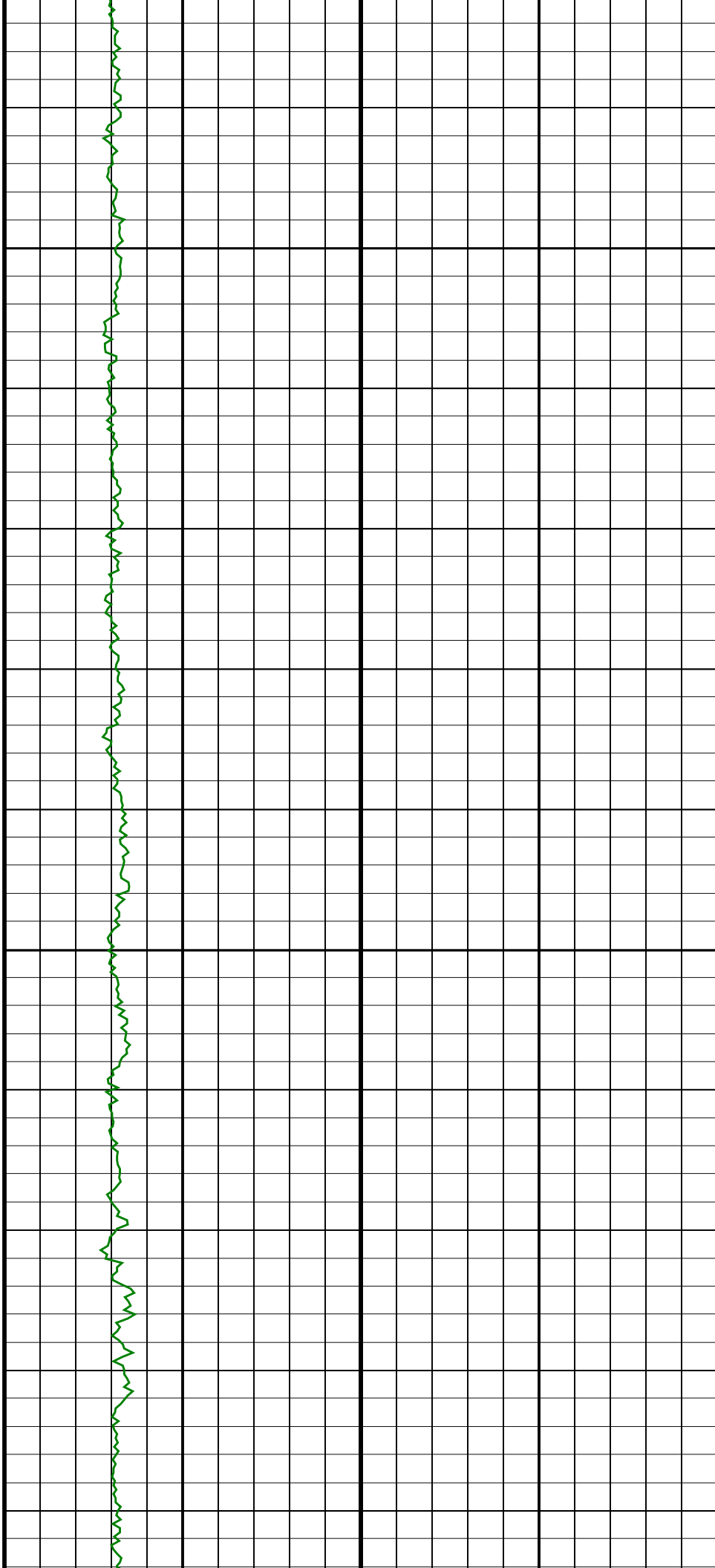
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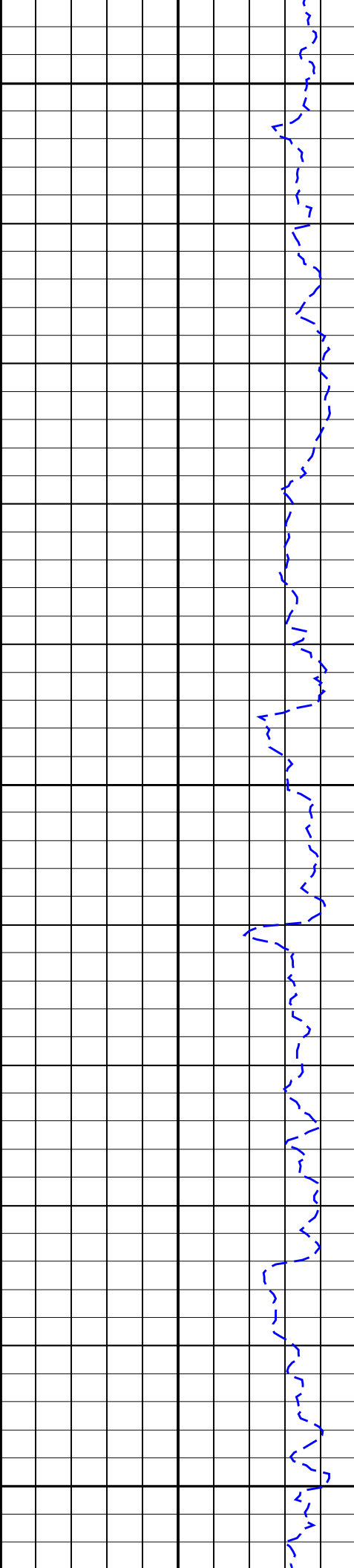




925
TVD

950
TVD

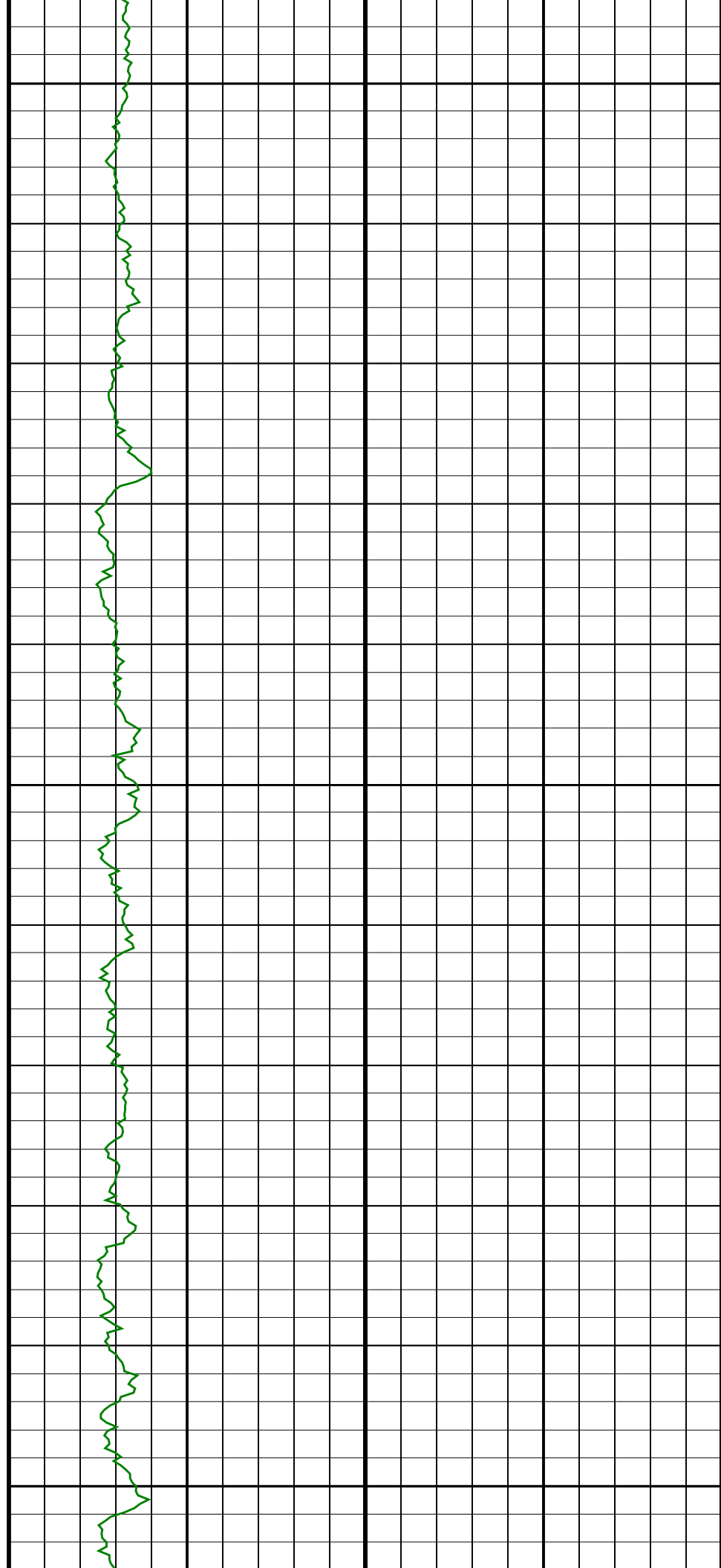


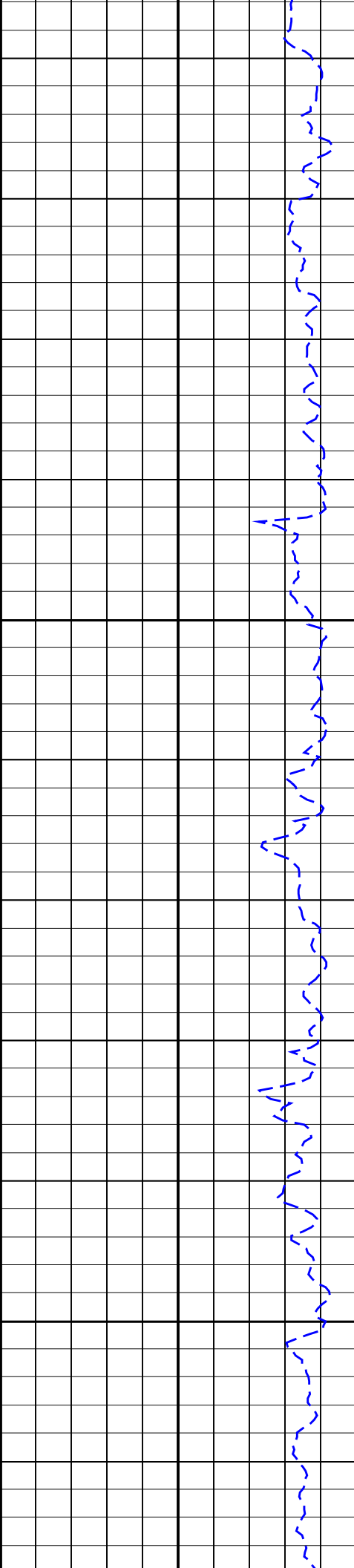


975
TVD

1000
TVD

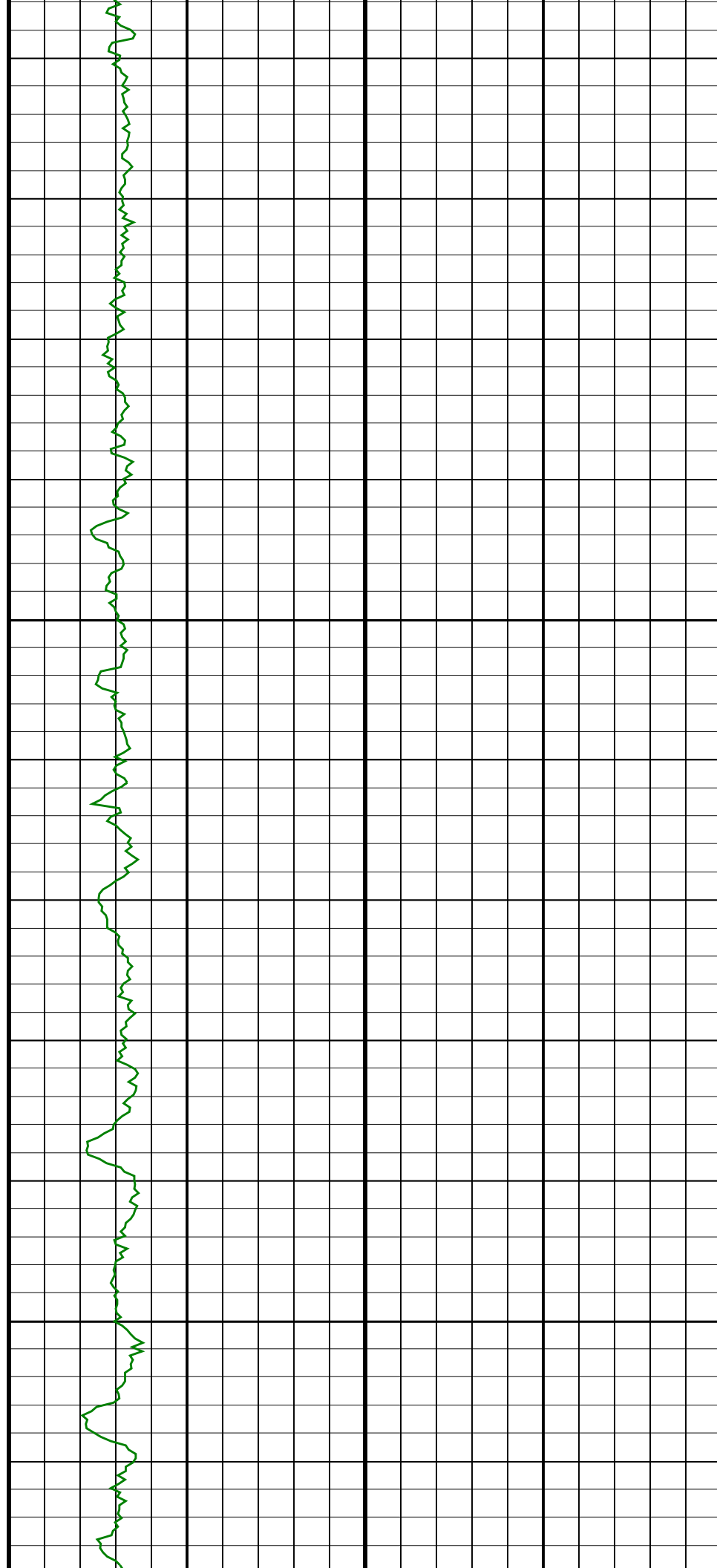
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TVD

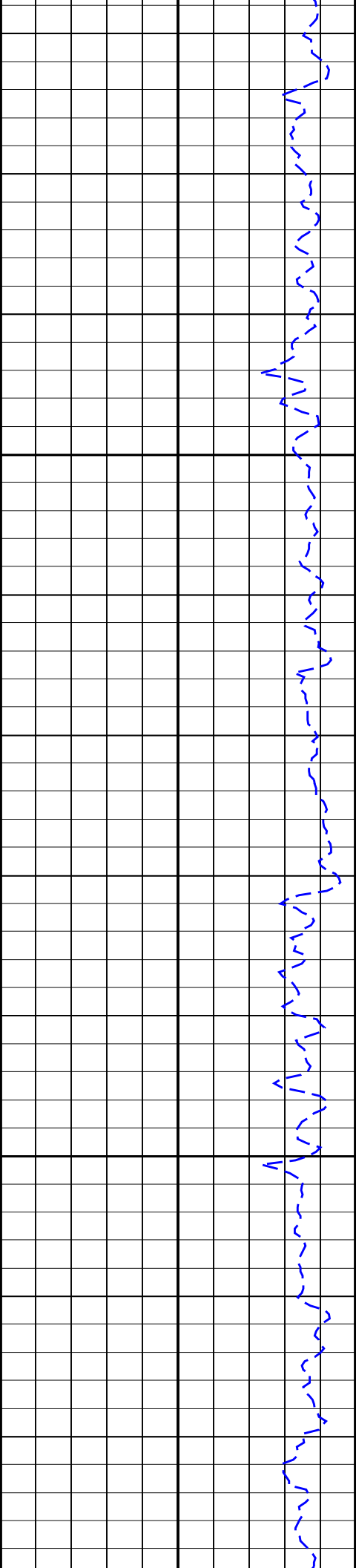




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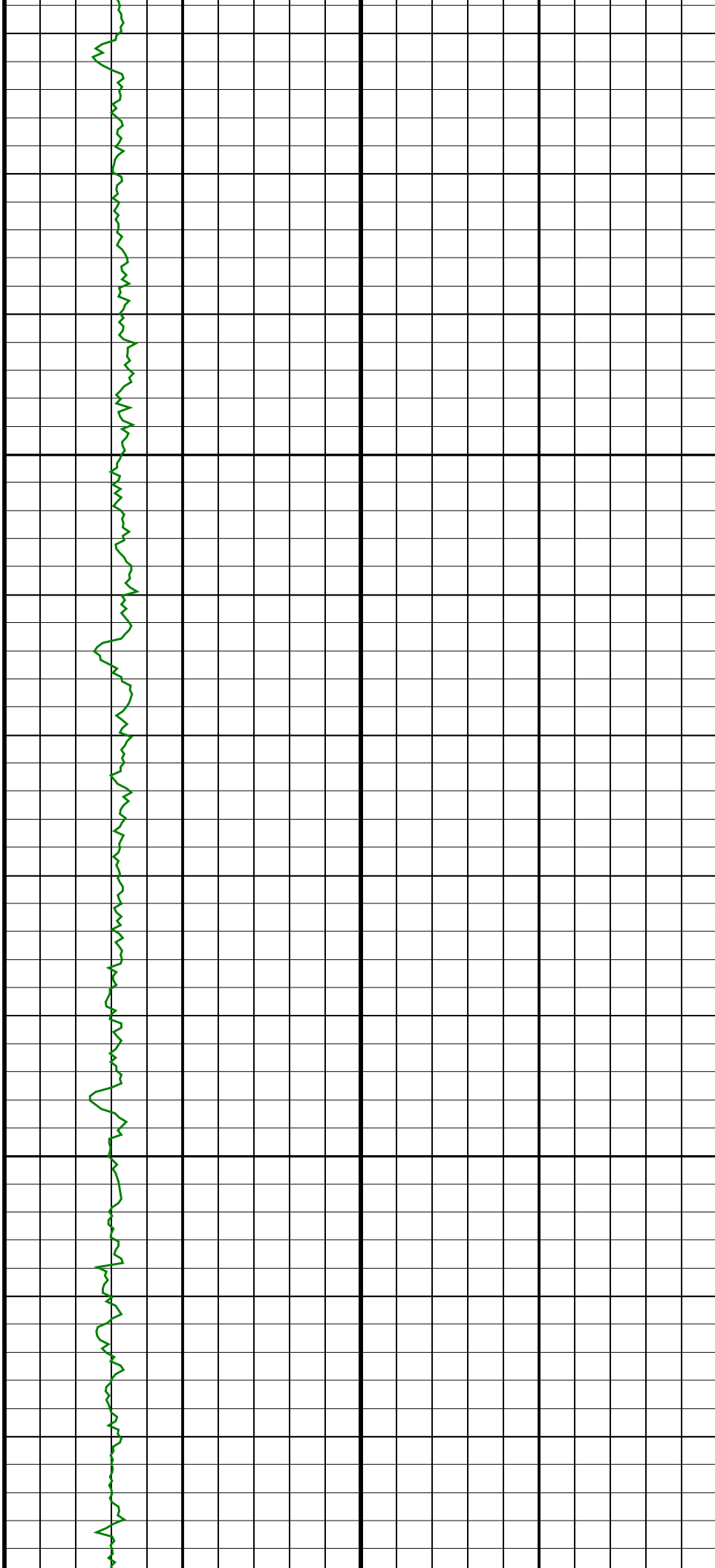
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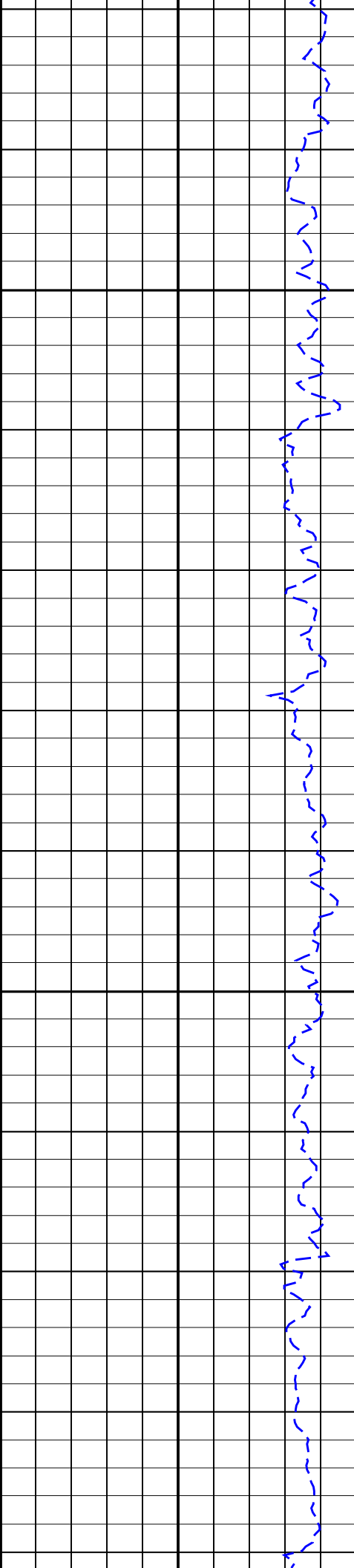




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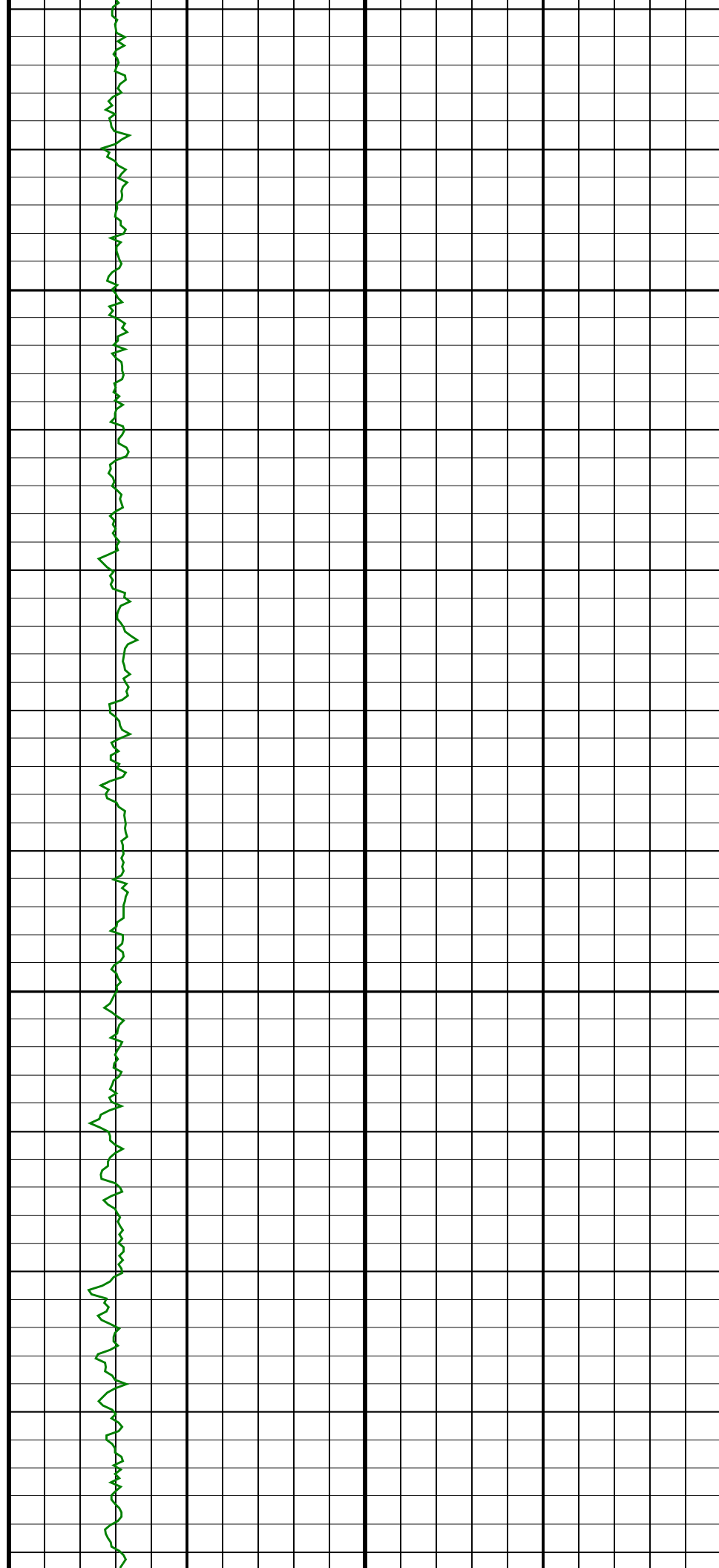
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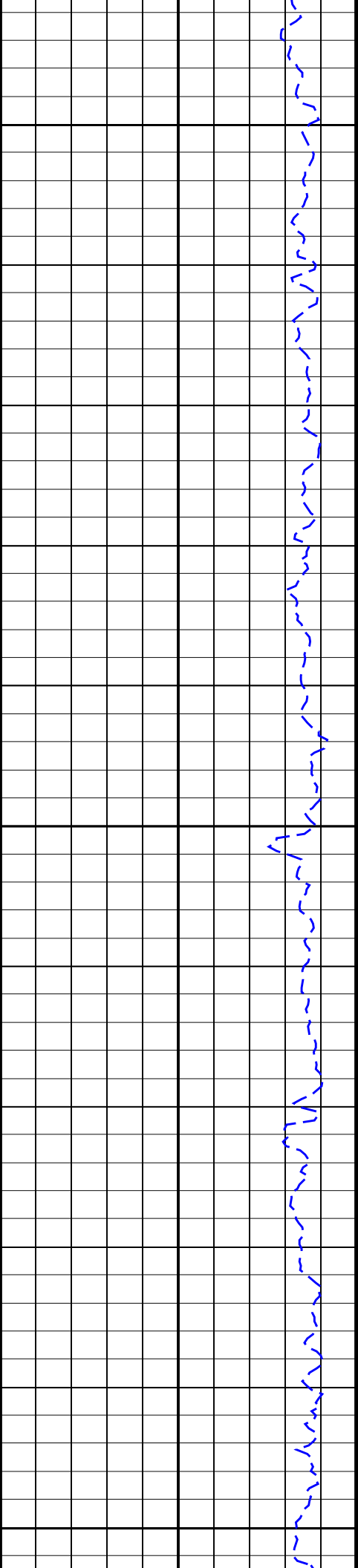




1150
TVD

1175
TVD

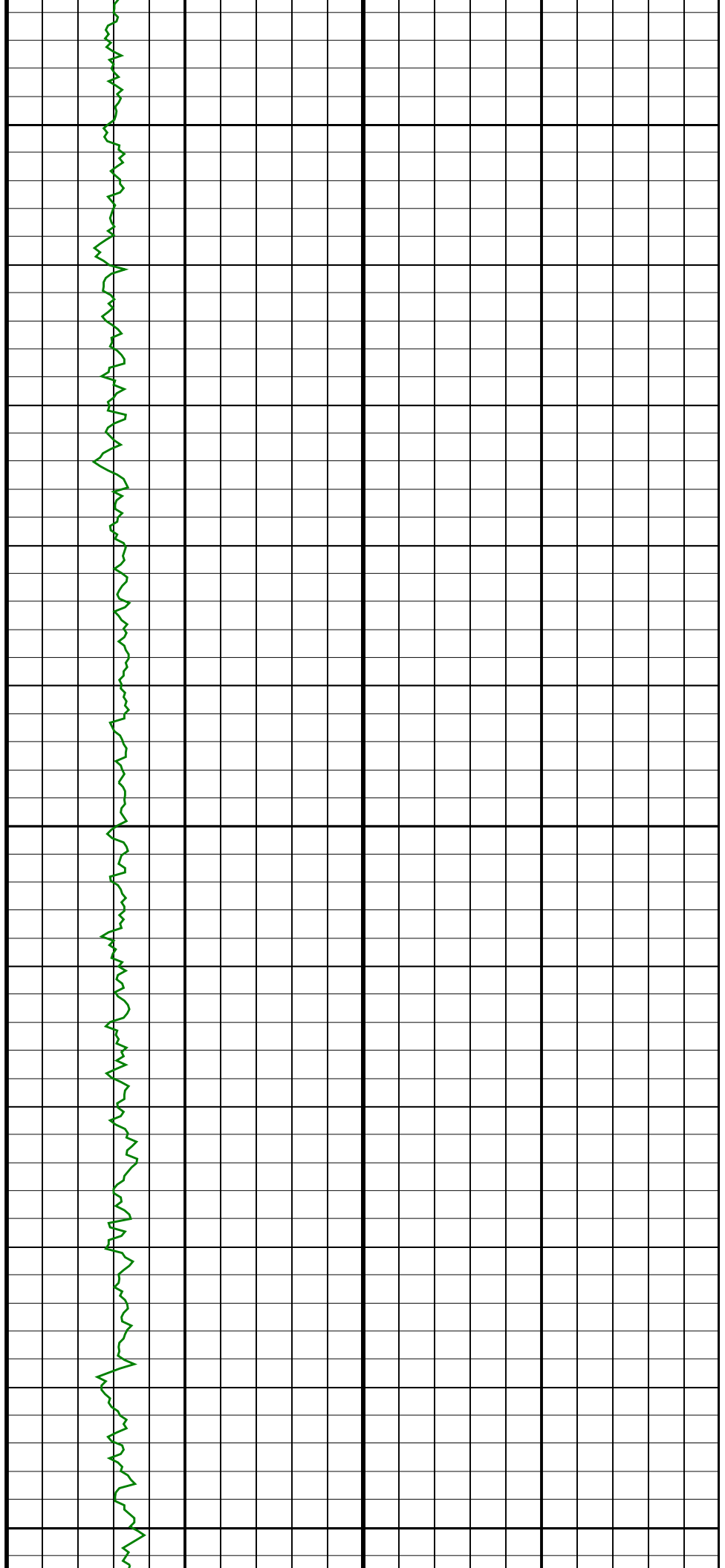


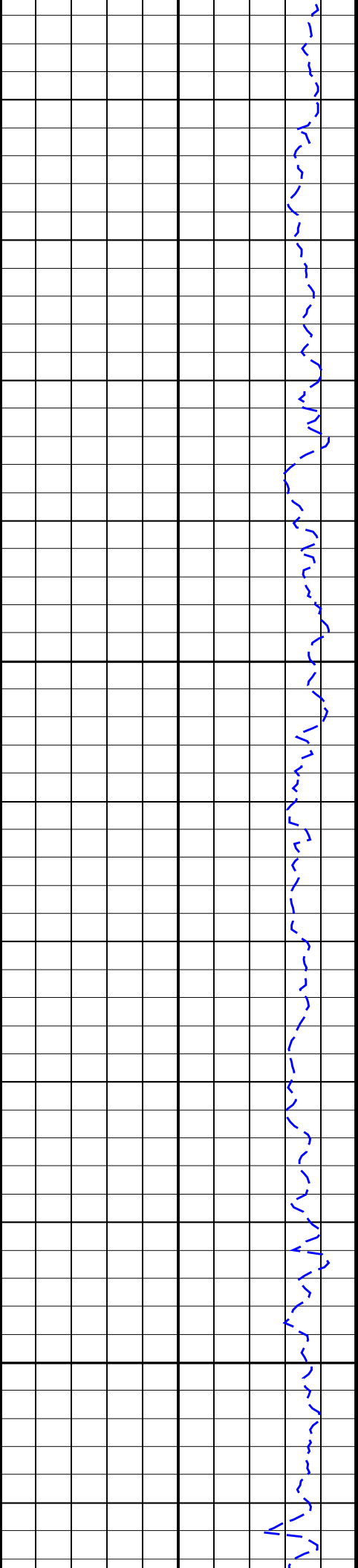


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TVD

1225
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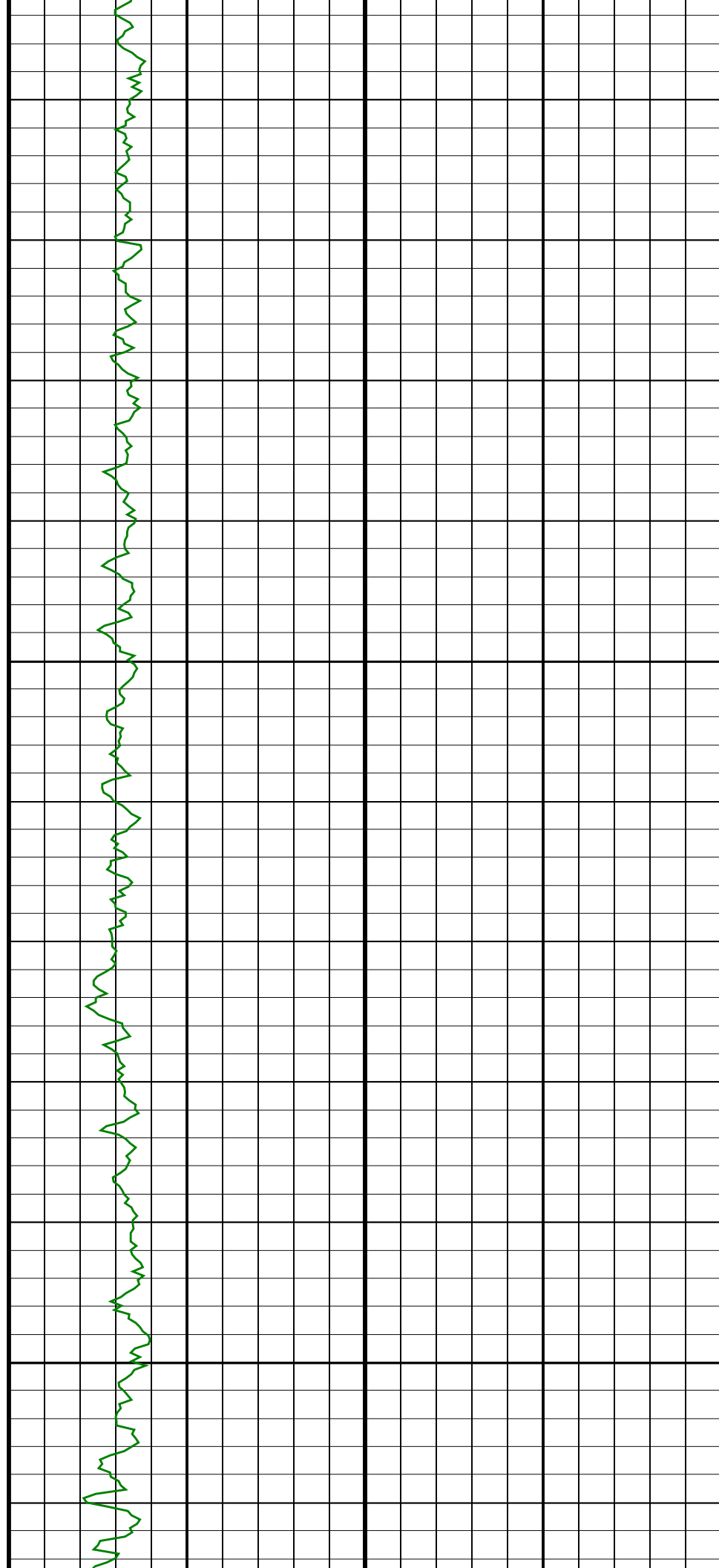
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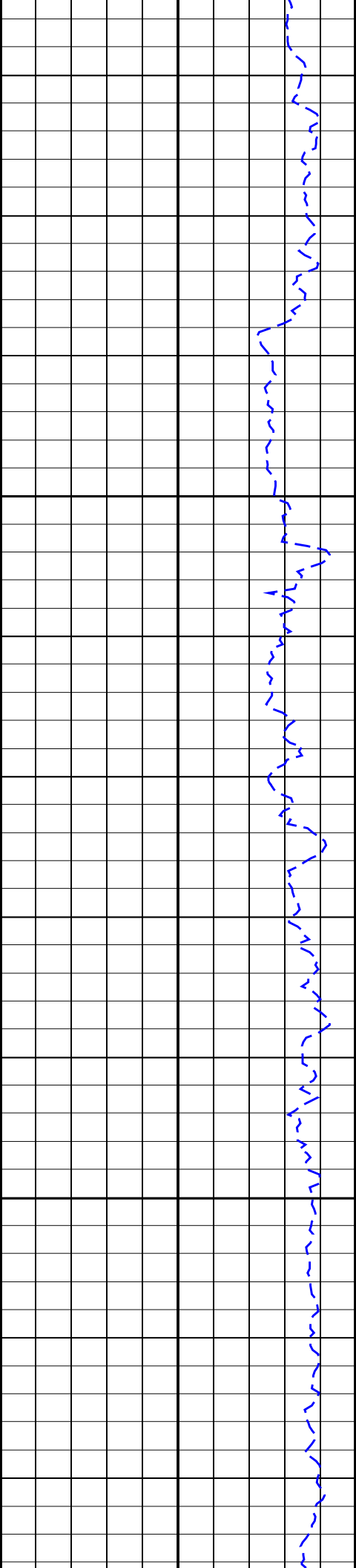


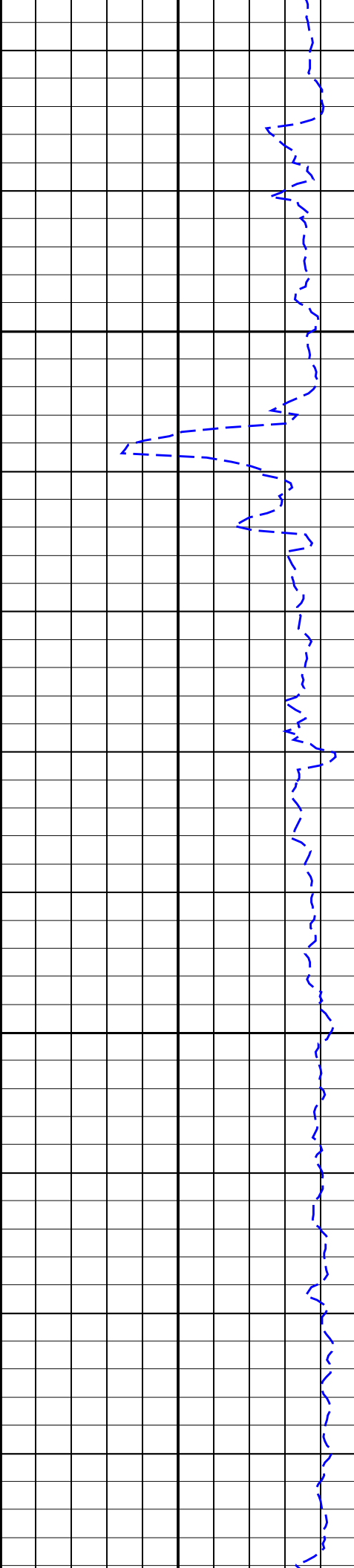


1275
TVD

1300
TVD

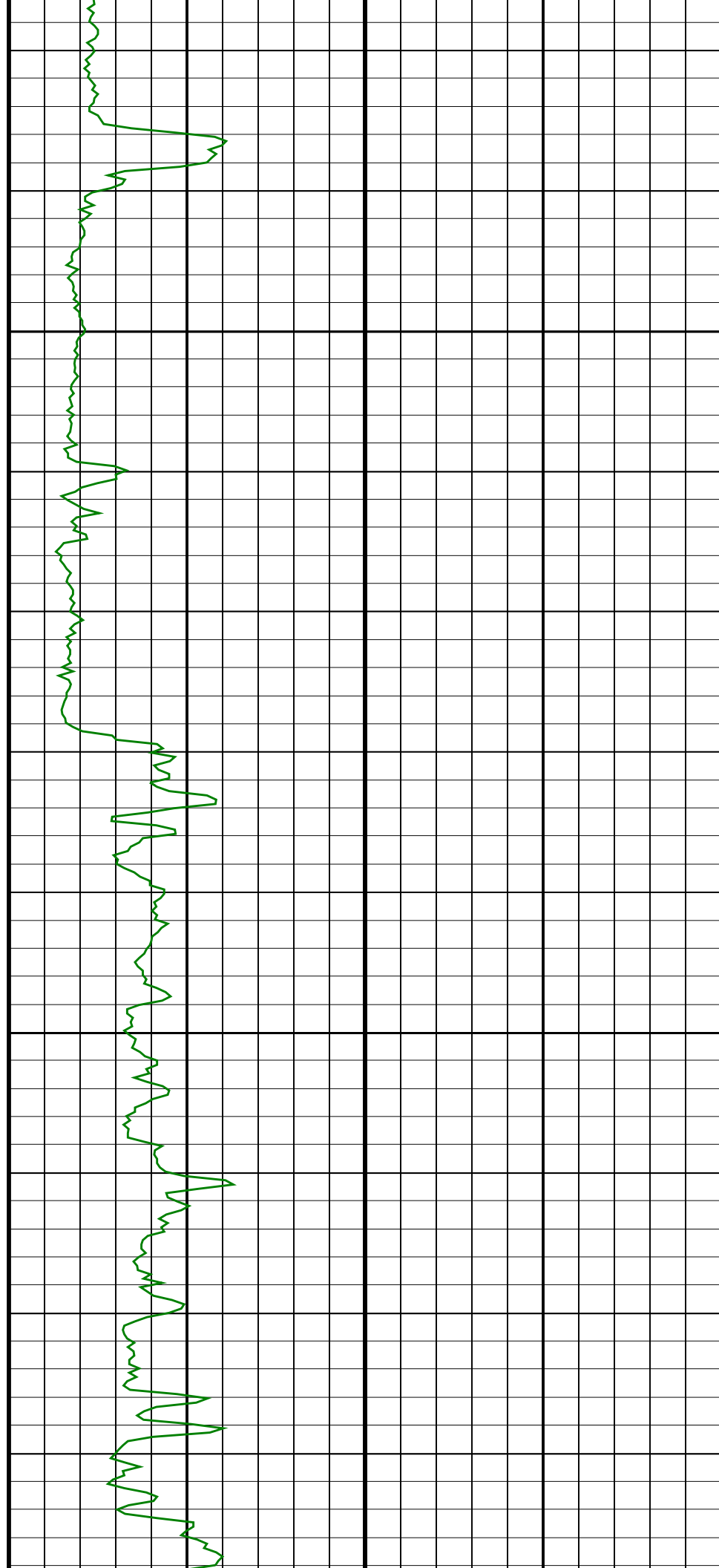


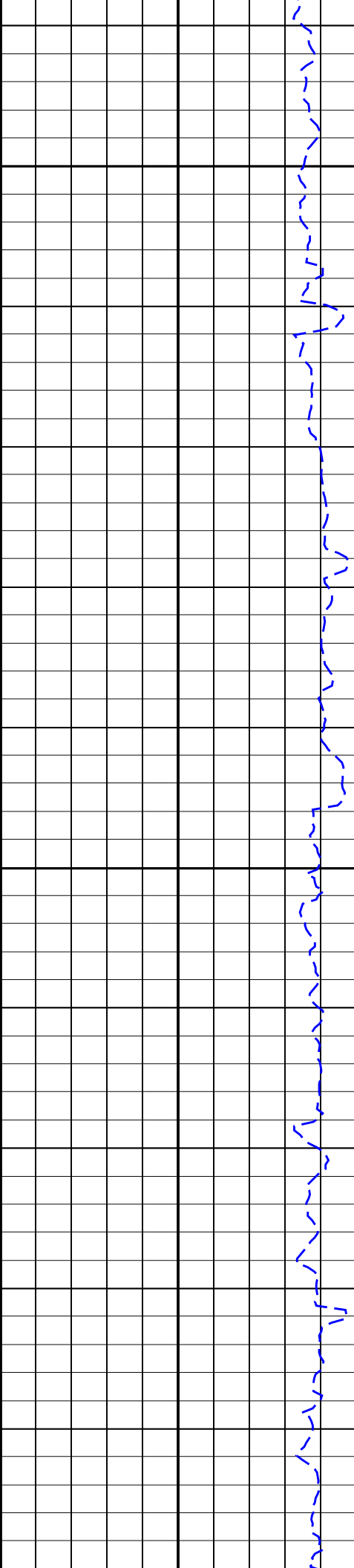




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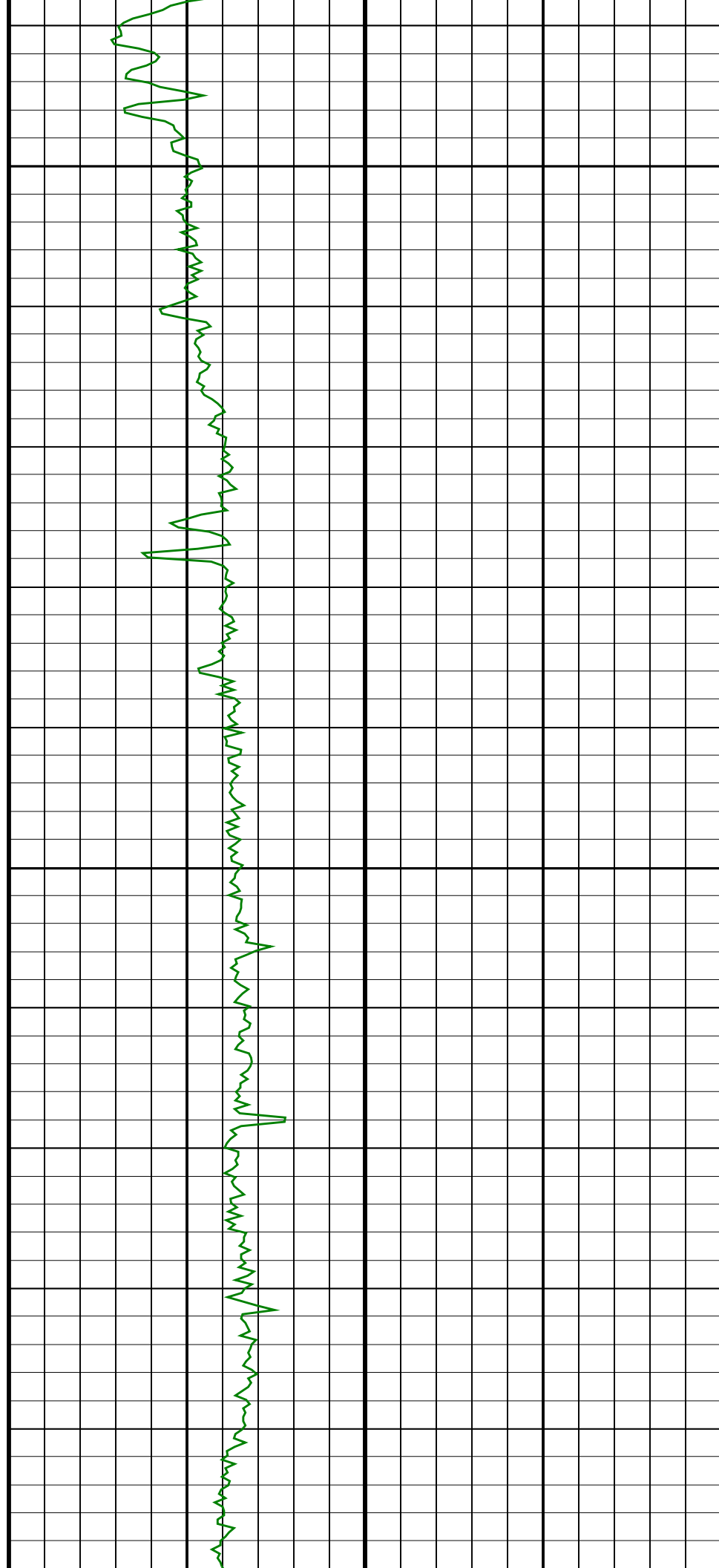
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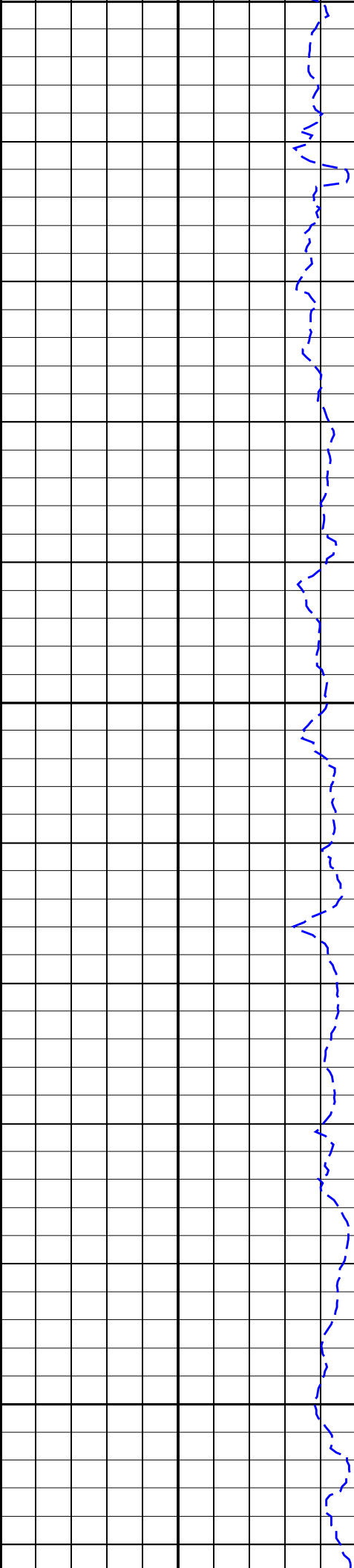




1425
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1450
TVD

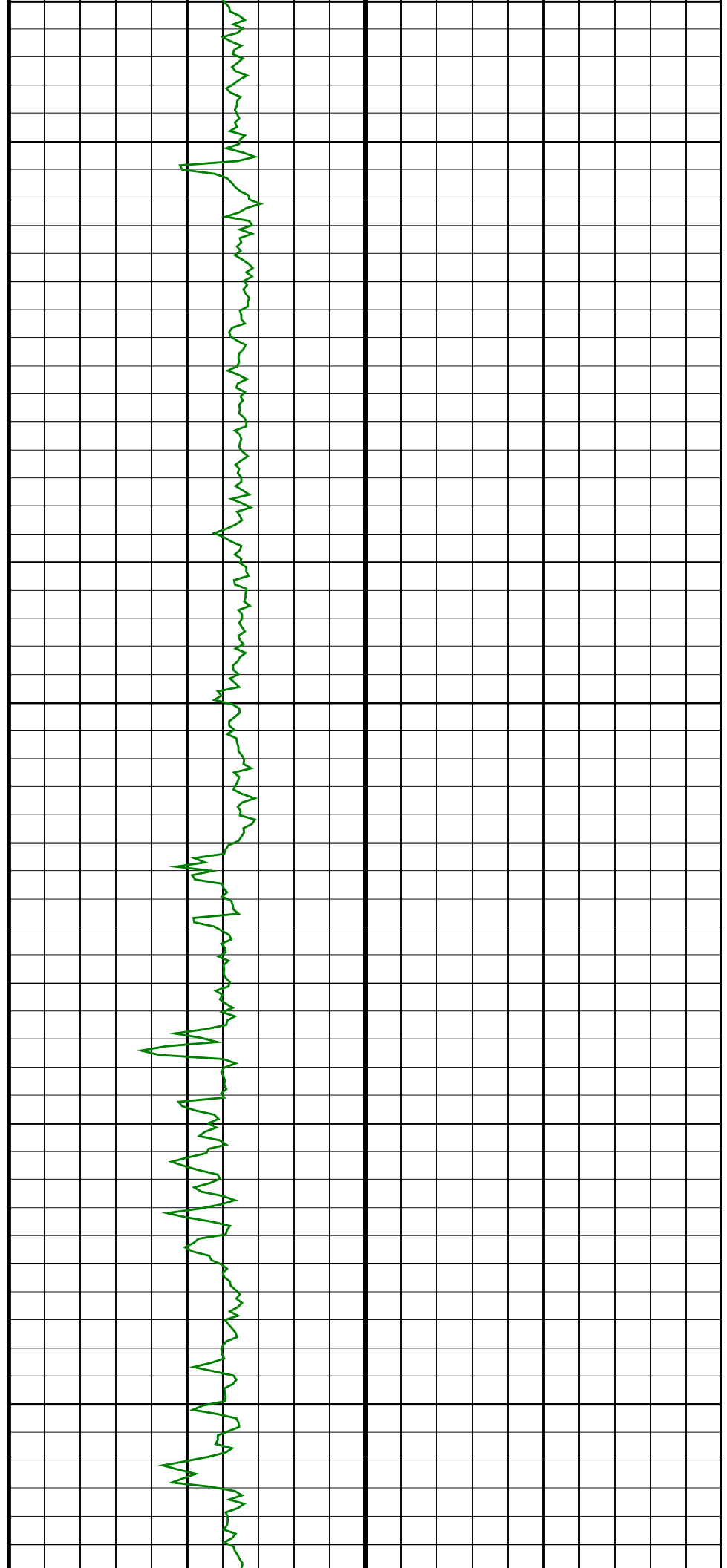


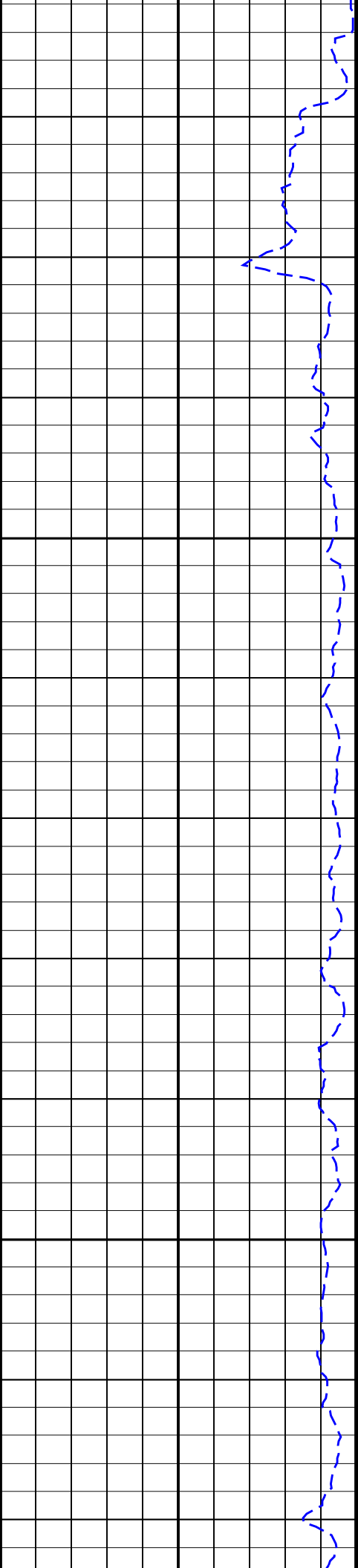


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1500
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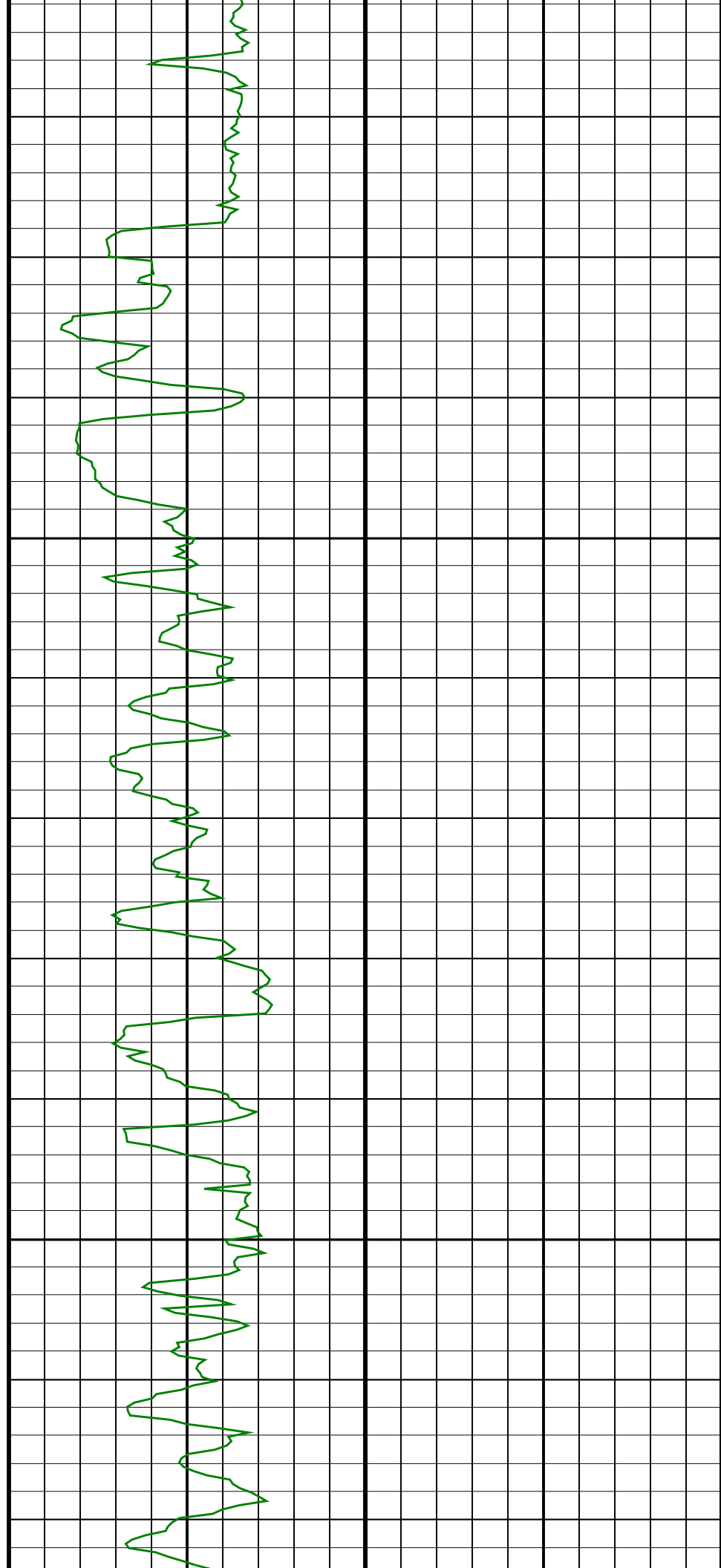
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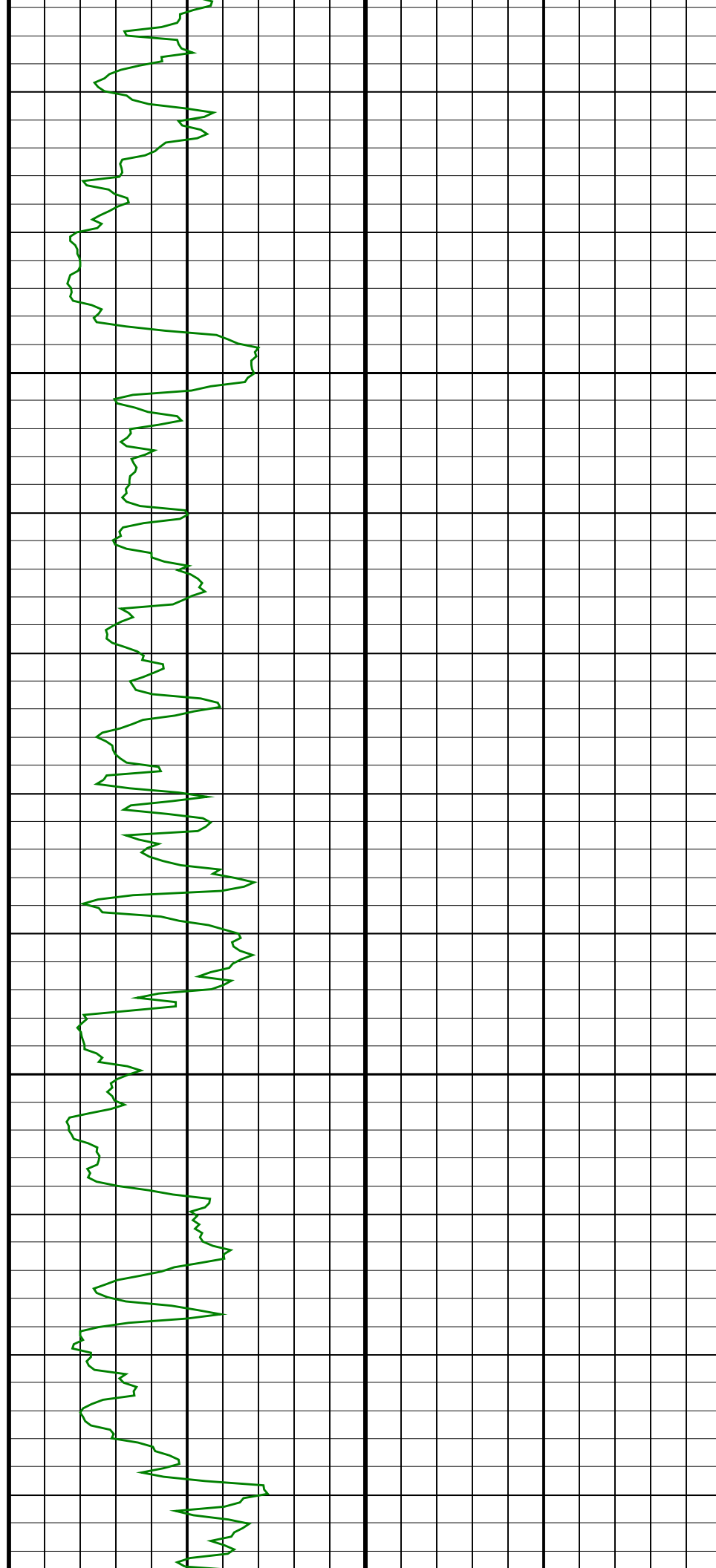
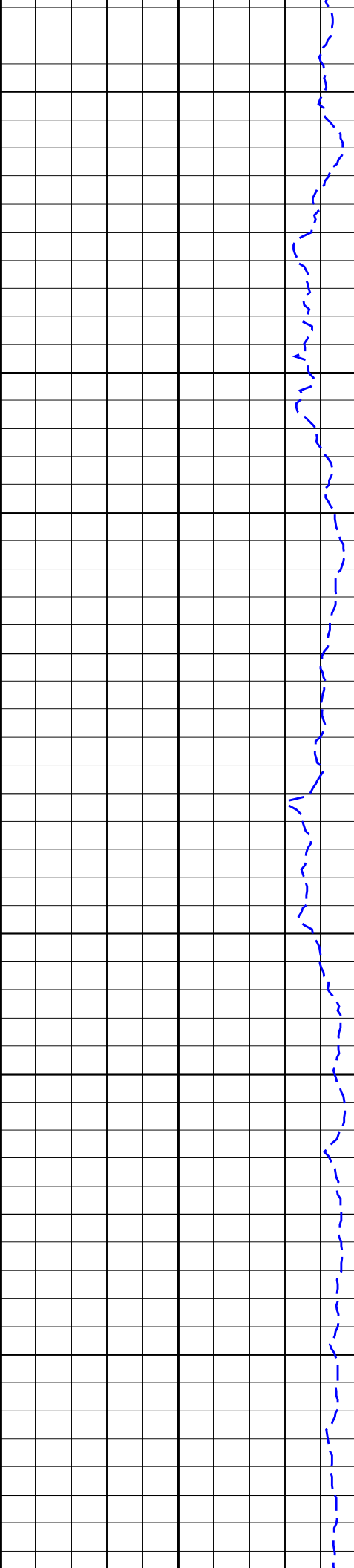


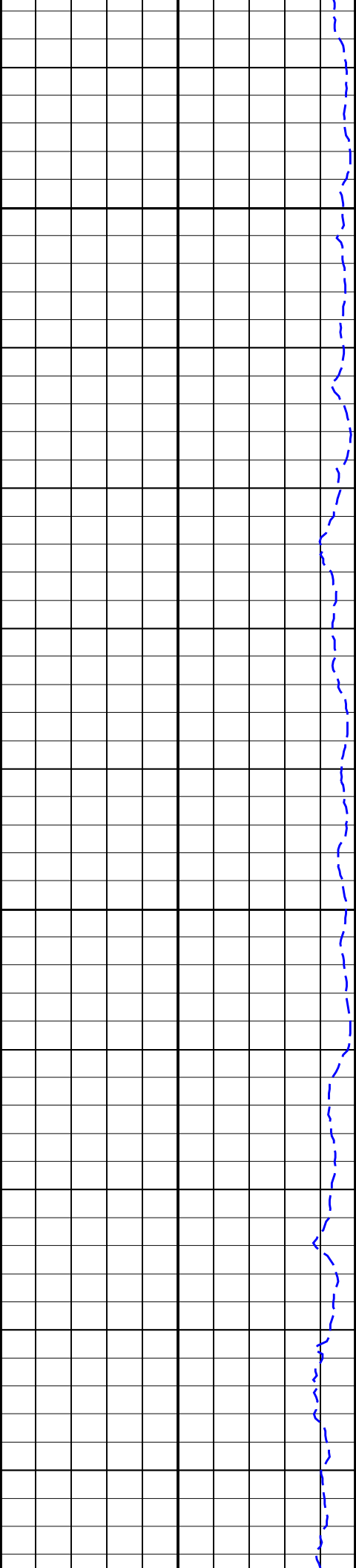


1550
TVD

1575
TVD

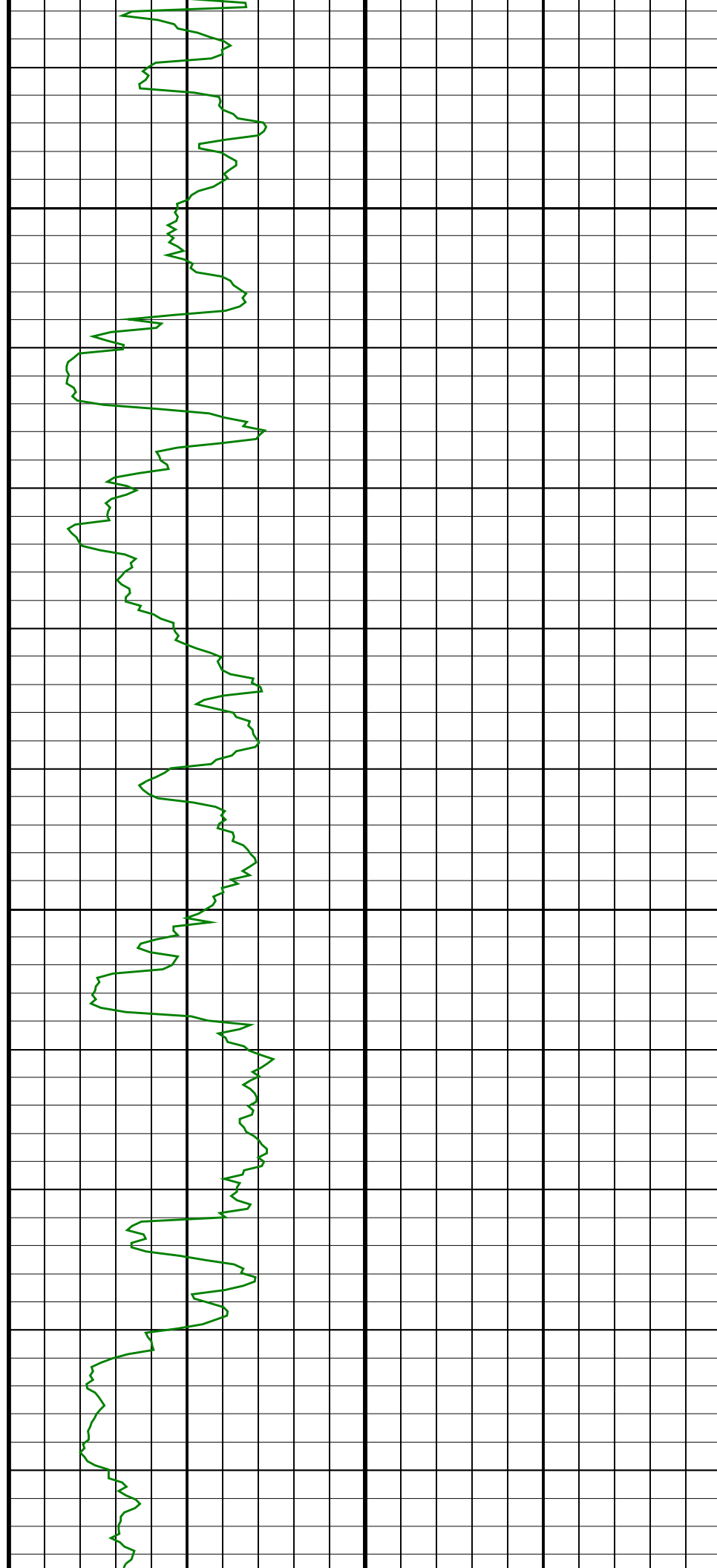


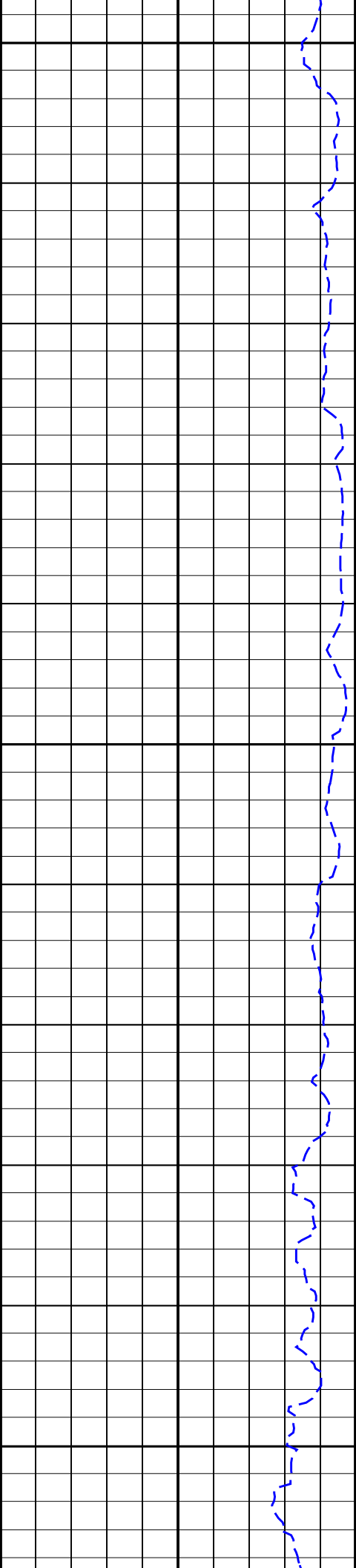




1650
TVD

1675
TVD

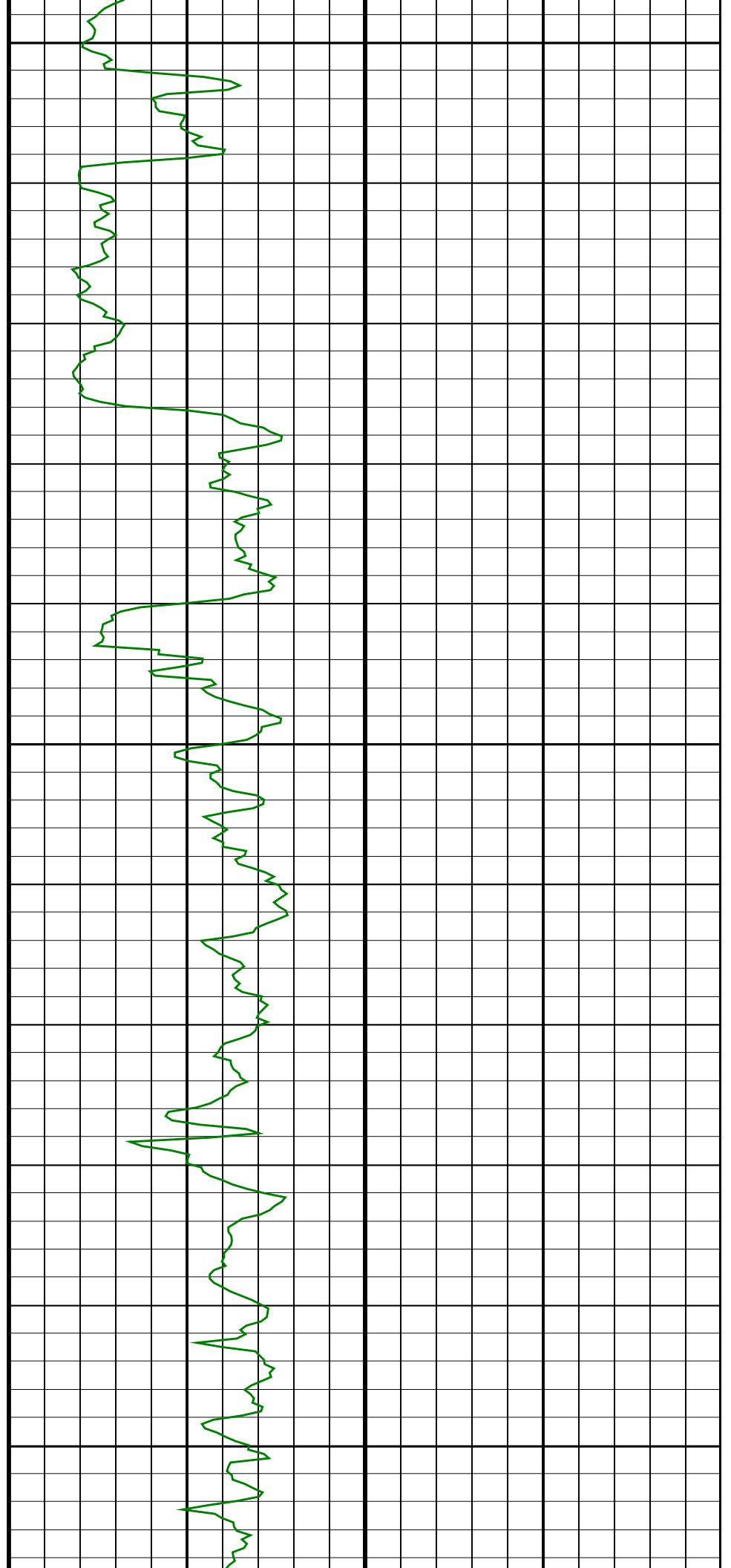


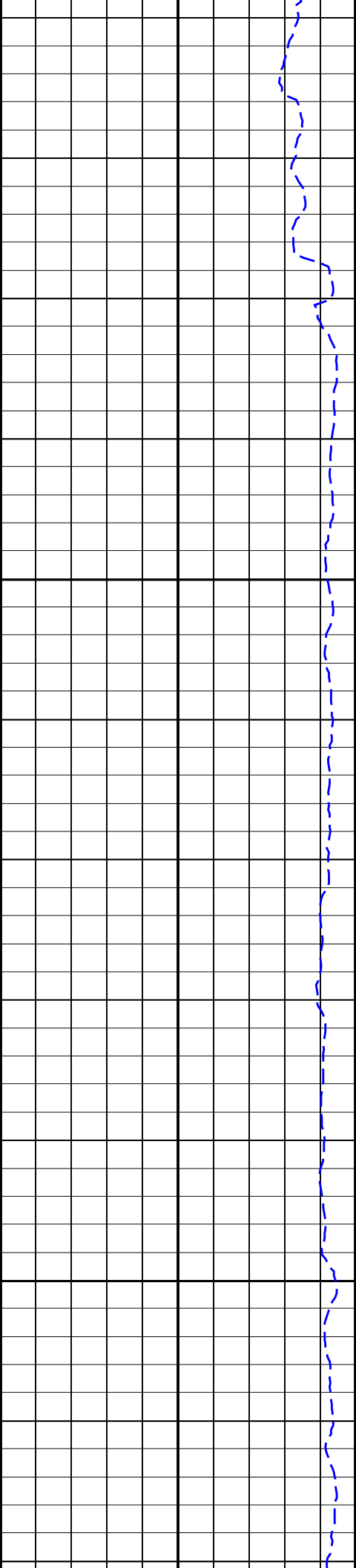


1700
TVD

1725
TVD

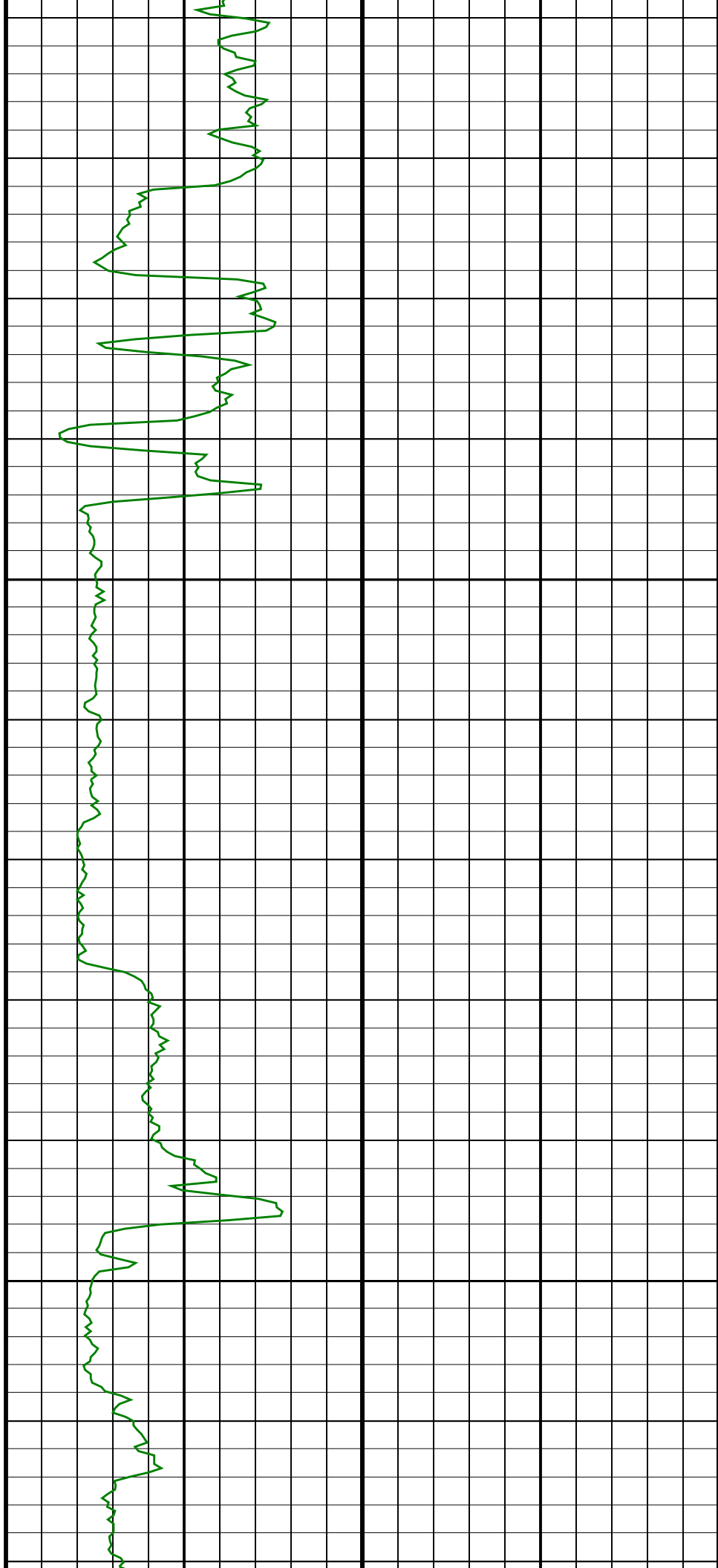
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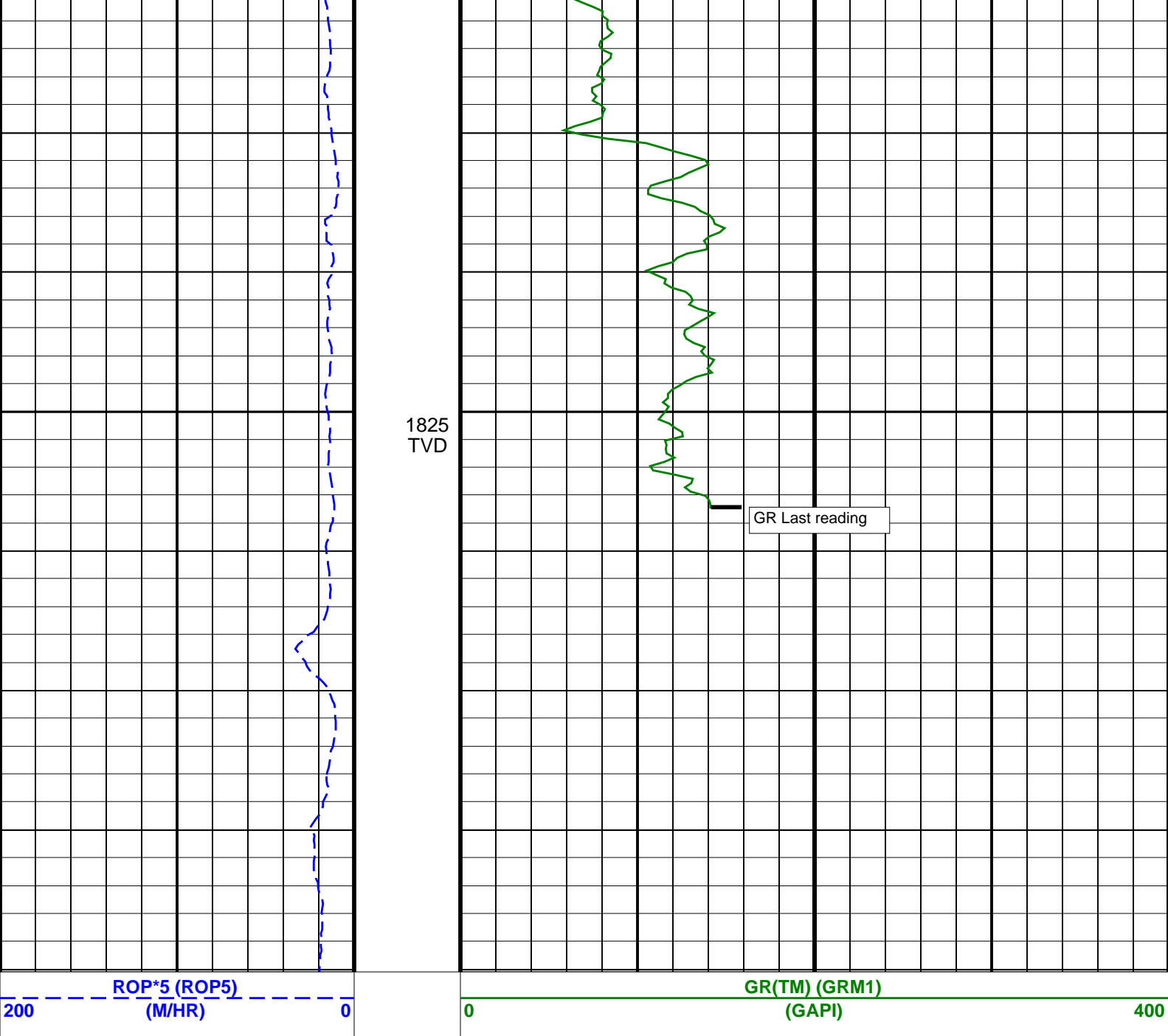




1775
TVD

1800
TVD





SCHLUMBERGER

Survey report

14-Mar-2005 14:37:49

Page 1 of 4

Client.....: ESSO Australia Pty. Ltd.
Field.....: Tuna

Well.....: TNA A14A
API number.....: N/A
Engineer.....: D.Hastie, L.Johnston

Rig: ISDL 453.....: ISDL 453
STATE.....: Victoria

Spud date.....: 04-March-2005
Last survey date.....: 14-Mar-05
Total accepted surveys...: 81
MD of first survey.....: 843.00 m
MD of last survey.....: 3142.00 m

----- Survey calculation methods-----
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor

----- Depth reference -----
Permanent datum.....: Mean Sea Level
Depth reference.....: Driller's Depth
GL above permanent.....: -59.40 m
KB above permanent.....: TopDrive
DF above permanent.....: 31.32 m

----- Vertical section origin-----
Latitude (+N/S-).....: -2.74 m
Departure (+E/W-).....: 8.64 m

----- Platform reference point-----
Latitude (+N/S-).....: 5774406.73 m

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2004
Magnetic date.....: 01-Mar-2005
Magnetic field strength...: 1198.15 HCNT
Magnetic dec (+E/W-).....: 13.23 degrees
Magnetic dip.....: -68.65 degrees

----- MWD survey Reference Criteria -----
Reference G.....: 1000.02 mGal
Reference H.....: 1198.15 HCNT
Reference Dip.....: -68.65 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 13.23 degrees

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)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
61	2597.17	69.11	275.50	28.26	1471.36	1737.27	-188.71	-1719.72	1730.05	263.74	0.41	MWD	None
62	2625.95	69.02	275.27	28.78	1481.65	1763.78	-186.19	-1746.49	1756.38	263.91	0.25	MWD	None
63	2654.26	66.44	274.97	28.31	1492.38	1789.64	-183.85	-1772.58	1782.09	264.08	2.79	MWD	None
64	2682.92	63.10	274.75	28.66	1504.59	1815.24	-181.66	-1798.41	1807.56	264.23	3.56	MWD	None
65	2711.56	61.05	274.81	28.64	1518.00	1840.24	-179.55	-1823.62	1832.44	264.38	2.18	MWD	None
66	2740.20	57.50	275.87	28.64	1532.63	1864.52	-177.26	-1848.13	1856.61	264.52	3.90	MWD	None
67	2769.36	52.88	277.77	29.16	1549.28	1888.02	-174.43	-1871.90	1880.01	264.68	5.10	MWD	None
68	2798.03	49.82	277.78	28.67	1567.18	1909.92	-171.40	-1894.08	1901.82	264.83	3.25	MWD	None
69	2826.93	47.30	276.02	28.90	1586.31	1931.18	-168.79	-1915.58	1923.00	264.96	3.00	MWD	None
70	2855.51	44.39	274.85	28.58	1606.21	1951.40	-166.84	-1935.99	1943.17	265.07	3.23	MWD	None
71	2883.79	41.24	275.02	28.28	1626.96	1970.38	-165.19	-1955.14	1962.10	265.17	3.40	MWD	None
72	2912.11	38.64	274.19	28.32	1648.67	1988.35	-163.73	-1973.26	1980.04	265.26	2.86	MWD	None
73	2941.26	35.57	274.11	29.15	1671.91	2005.75	-162.46	-1990.80	1997.41	265.33	3.21	MWD	None
74	2970.11	32.14	274.48	28.85	1695.87	2021.64	-161.26	-2006.82	2013.29	265.41	3.63	MWD	None
75	2998.82	29.63	274.67	28.71	1720.50	2036.21	-160.08	-2021.51	2027.84	265.47	2.67	MWD	None
76	3027.33	29.25	274.48	28.51	1745.33	2050.06	-158.96	-2035.48	2041.68	265.53	0.42	MWD	None
77	3055.52	29.04	274.60	28.19	1769.95	2063.63	-157.88	-2049.16	2055.24	265.59	0.24	MWD	None
78	3084.06	29.42	274.47	28.54	1794.86	2077.41	-156.77	-2063.06	2069.01	265.65	0.41	MWD	None
79	3112.84	29.69	274.29	28.78	1819.89	2091.45	-155.69	-2077.21	2083.04	265.71	0.30	MWD	None
80	3121.10	29.93	274.33	8.26	1827.06	2095.51	-155.38	-2081.31	2087.10	265.73	0.89	MWD	None
81	3142.00	29.97	274.40	20.90	1845.17	2105.84	-154.58	-2091.72	2105.84	265.77	0.08	Projection to TD	

[(c)2005 IDEAL ID9_1C_02]

Company:
ESSO Australia Pty. Ltd.

Well:
TNA A14A

Field:
Tuna

Rig:
ISDL 453

State:
Victoria

Schlumberger

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