

Depth logged:	651.0 m To 2690.5 m	Mag decl:	13.287 deg.	Other services:
Date logged:	24-Apr-06 To 29-Apr-06	Mag dip:	-69.045 deg.	Directional Drilling, D&I

Hole size	from	to	Size	Density	from	to
8 1/2 in.	651.0 m	2710.0 m	10 3/4 in.	40.5 lb/ft	13.0 m	651.0 m

[illegible]

Surface equipment		Software record			
Unit	OLU-JA-9602	IDEAL Wis	ID11_OC_01		
Depth system	DES-CA-ASQ04-01SPM		HSPM11_OC_01		
	LWD		N/A		
	MWD		V8.0B96		

Run number		1								
Bit size	in	8.5								
Bit start depth	m	651.0								
Bit end depth	m	2710.0								
Top interval logged	m	651.0								
Bottom interval logged	m	2690.5								
Begin log: time		0:30								
Begin log: date		23-Apr-06								
End log: time		10:19								
End log: date		29-Apr-06								
Mud data										
Depth	m	2710.0								
Type		KCL/PHPA/Gly								
Mud weight	ppg	10.05								
Solids	%	8.0								
Chlorides	mg/l	41,000								
Rm		N/A								
Rmf		N/A								
Rmc		N/A								

Potassium	%	4.2									
<b>Environmental data</b>											
<b>GR</b>											
Mud weight	ppg	10.05									
Bit size	in	8.5									
<b>Resistivity</b>											
<b>Neutron porosity</b>											
Hole Size		N/A									
Mud weight		10.05									
Temperature		N/A									
Mud salinity		N/A									
Formation salinity		N/A									
Recording rate 1	SEC	2.97									
Recording rate 2	SEC	N/A									
Filtering GR		3 pt.									
Filtering density		N/A									
Filtering Neutron		N/A									
Company representative		G.Campbell	B.Davis	T.Basset							
Schlumberger D&M Personnel		L.Johnston	R.Burns	C.Soper	A.Tovar						

<p style="text-align: center;"><b>DISCLAIMER</b></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>		
<b>OTHER SERVICES FOR RUN1</b> Directional Drilling Directional Surveys	<b>OTHER SERVICES FOR RUN</b>	<b>OTHER SERVICES FOR RUN</b>
<b>REMARKS: RUN NUMBER 1</b> Depth is referenced to Drillers Depth.  All data presented is from Real-Time Transmission.  Enviromental Corrections: – Gamma Ray was Corrected for Mud Weight, Tool and Bit Size. Gamma Ray is not corrected for Potassium.  8–1/2 in. hole was drilled from 651.0 m to 2710.0 m MD.  Gamma Ray Data loss between 1530.0 and 1571.0 m MD and ROP data loss between 1549.0 and 1590.0 m MD due to Hookload Sensor failure.	<b>REMARKS: RUN NUMBER</b>	<b>REMARKS: RUN NUMBER</b>

<b>EQUIPMENT DESCRIPTION</b>		
<b>RUN1</b>	<b>RUN</b>	<b>RUN</b>
<b>DOWNHOLE EQUIPMENT</b>		

DOWNHOLE EQUIPMENT

6-3/4 in. PowerPulse\*  
MDC: V875  
MEC: BA 064  
MDI: BC 738  
MGR: AA 503  
DHS: V8.0B96

23.48

D&I 19.12  
GR 18.47

6-1/2 in. NM Pony  
S/N: 97081023

14.98

8-3/8 in. NM Roller Reamer  
S/N: GU2317R

13.74

6-1/2 in. NM Pony  
S/N: ANA98-007

11.75

7 in. PowerPak\* Motor  
A700GT 7:8  
S/N: N7413  
1.5 deg. Bent Housing  
8-3/8 in. Motor Sleeve

9.14

Smith PDC Bit  
OD: 8-1/2 in.  
S73PX S/N: JT6967 R3

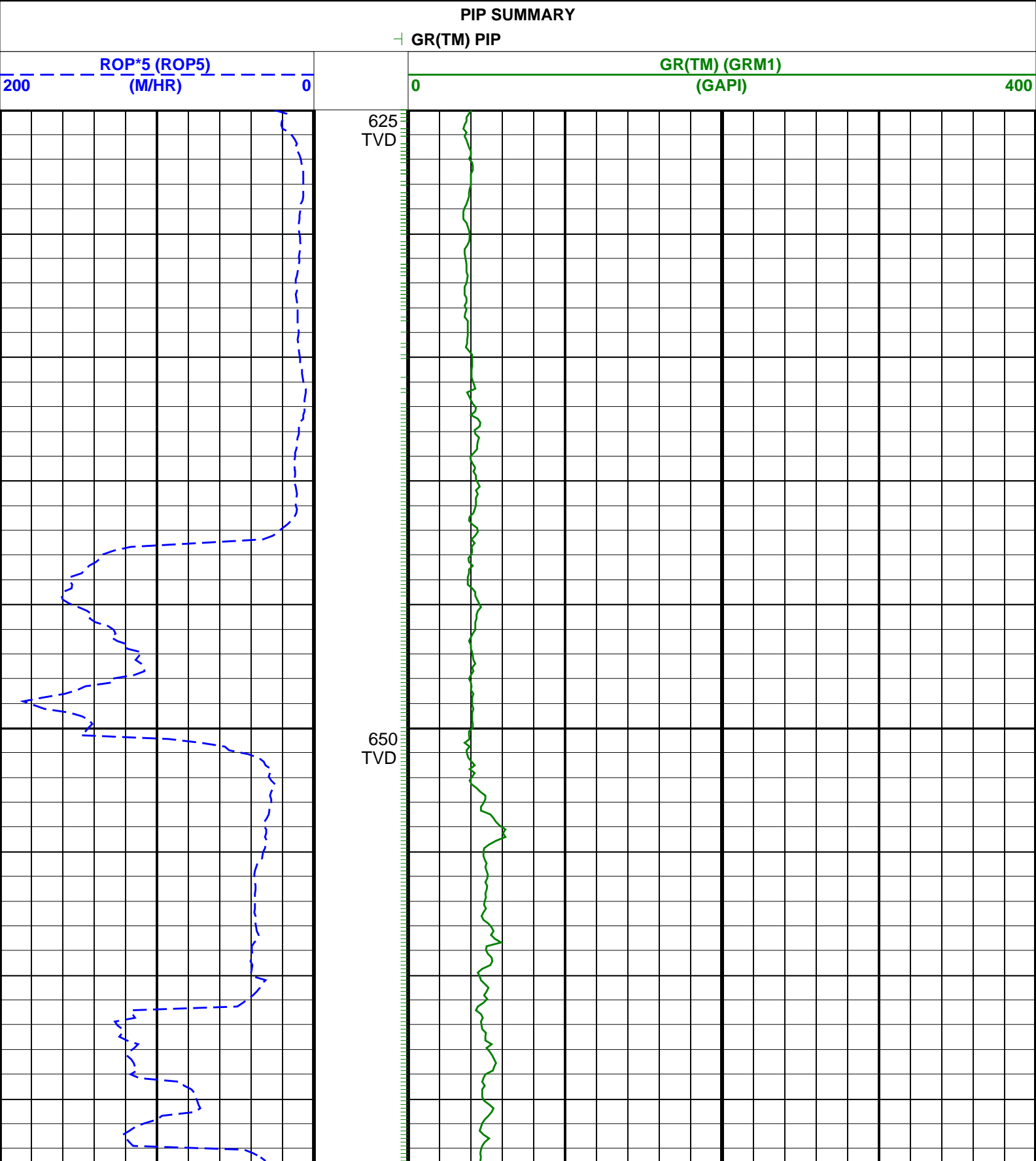
0.22

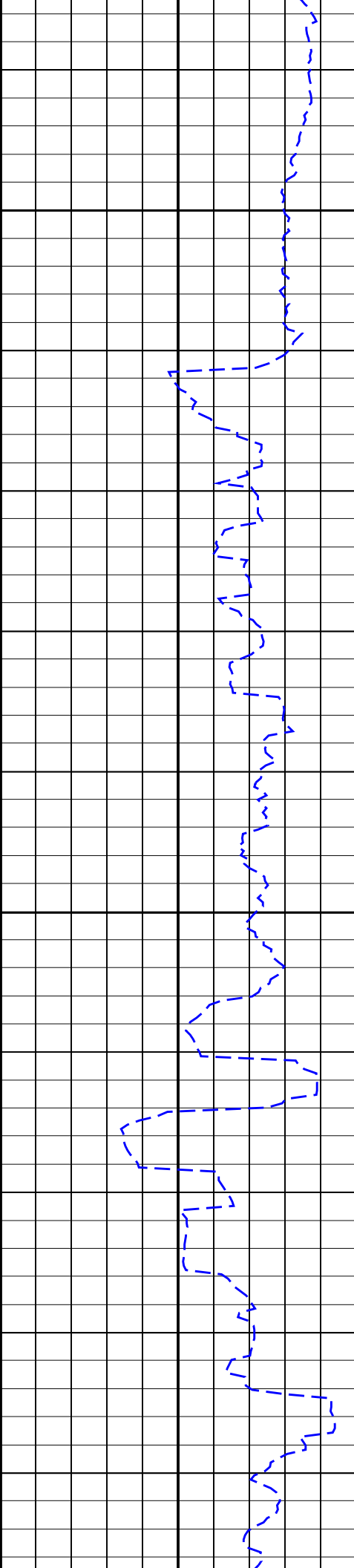
Maximum string diameter 8.50 in.  
All lengths in Metres

# WKF W18A RT 1:200 TVD

IDEAL Version: ID11\_OC\_01 <TVD> Vertical Scale: 1:200

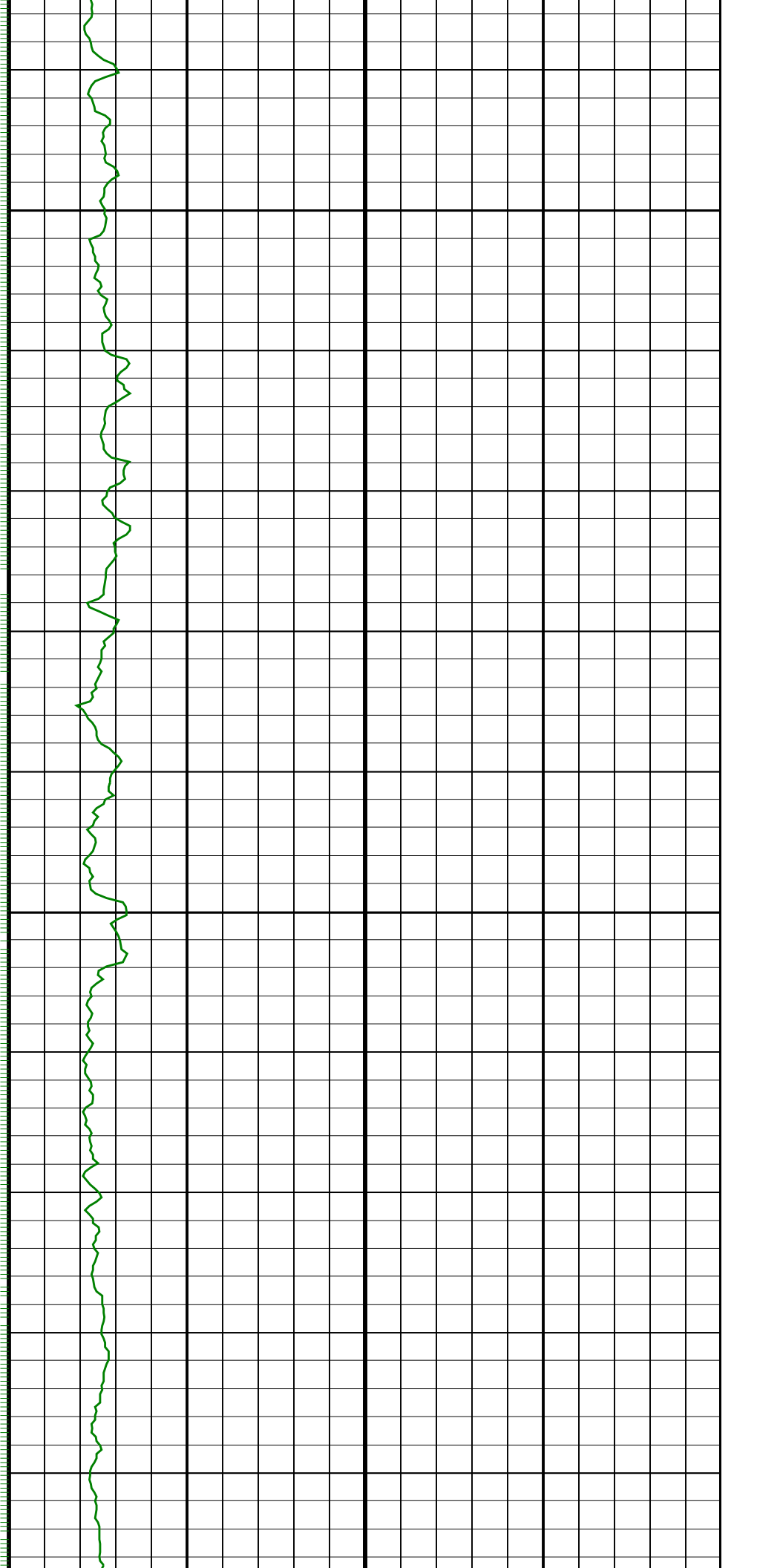
Graphics File Created: 01-May-2006 03:25



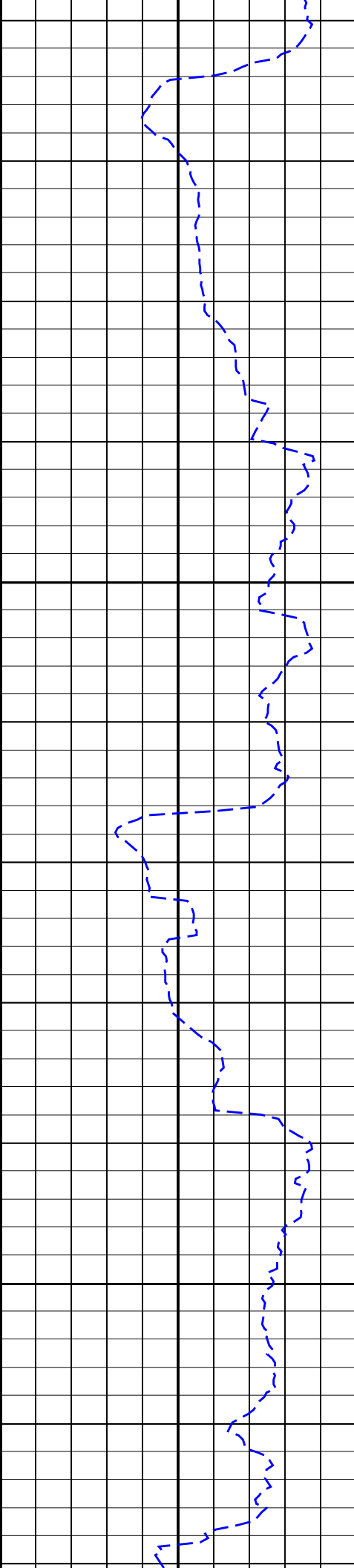


675  
TVD

700  
TVD

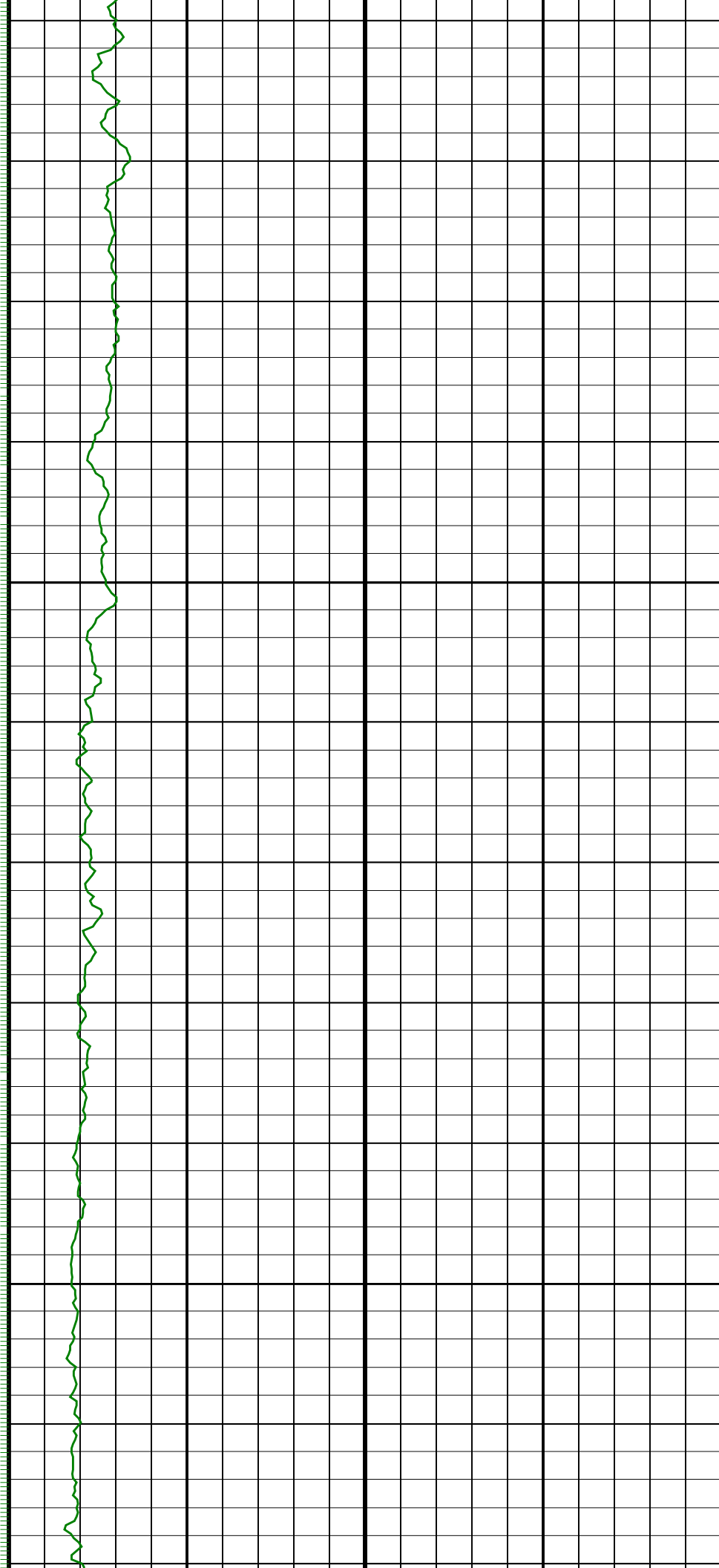






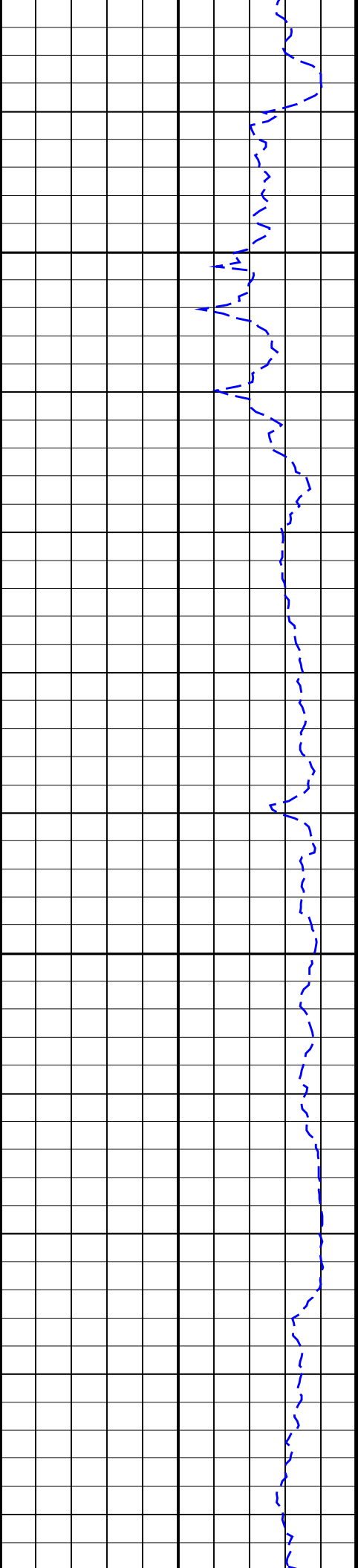
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TVD

825  
TVD



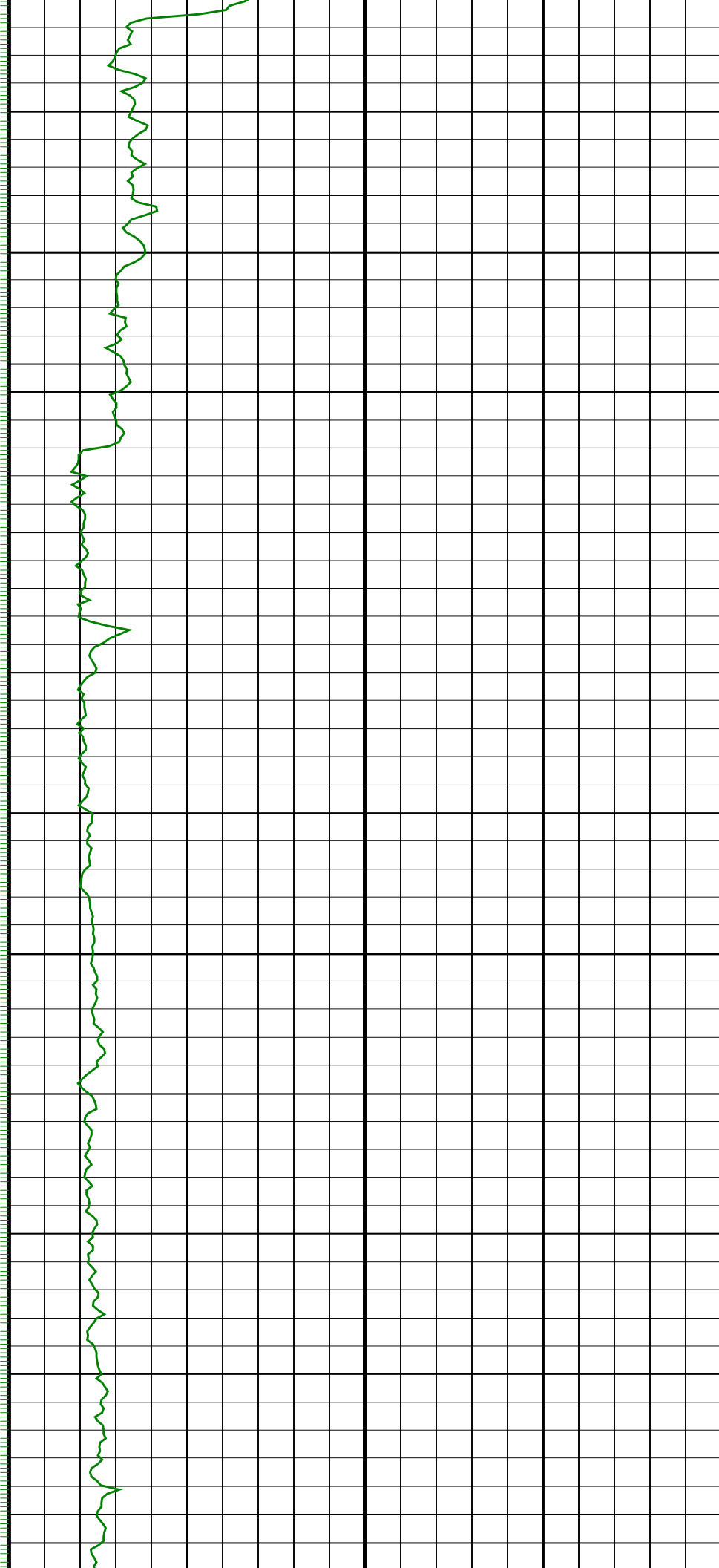


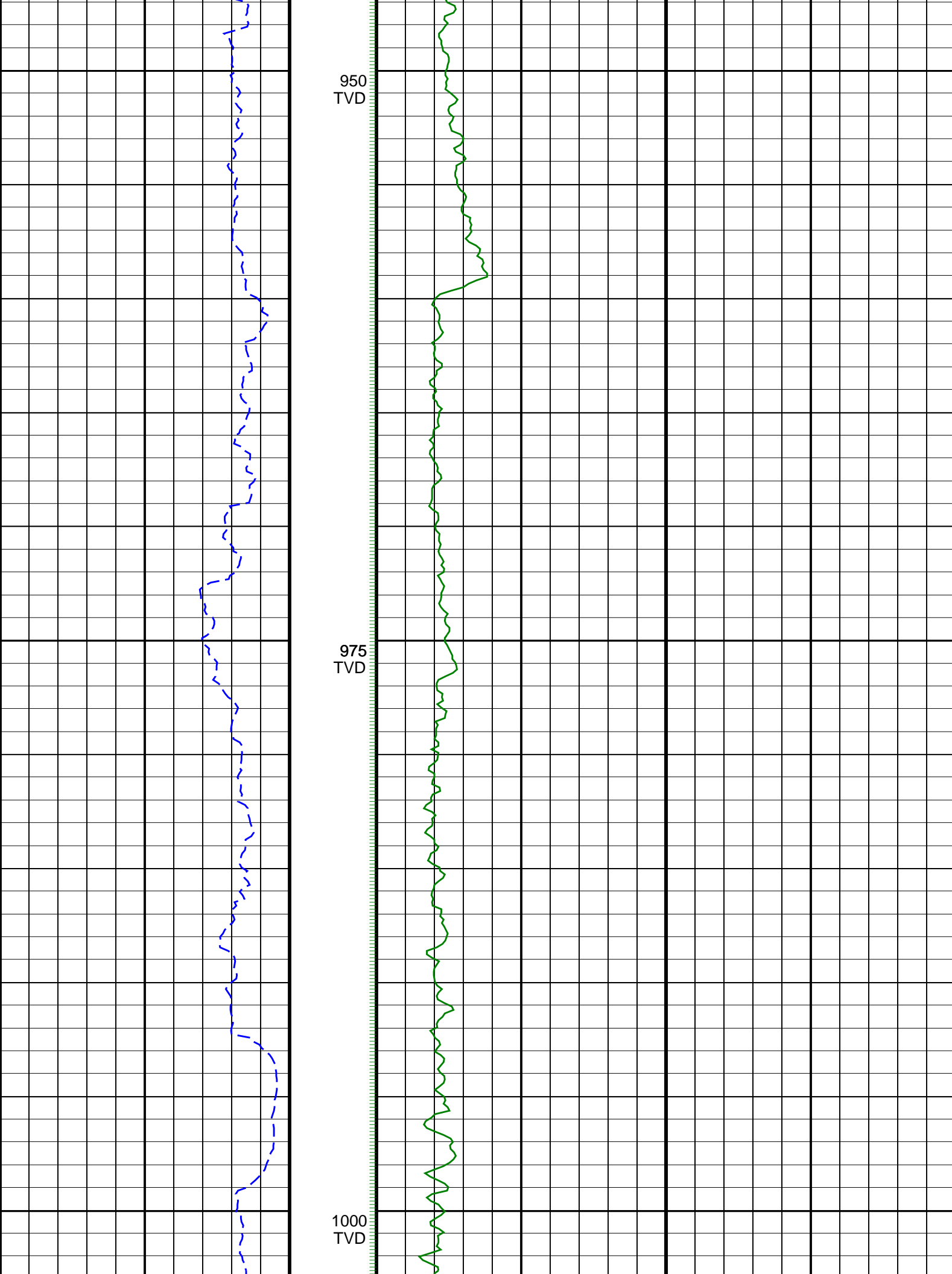


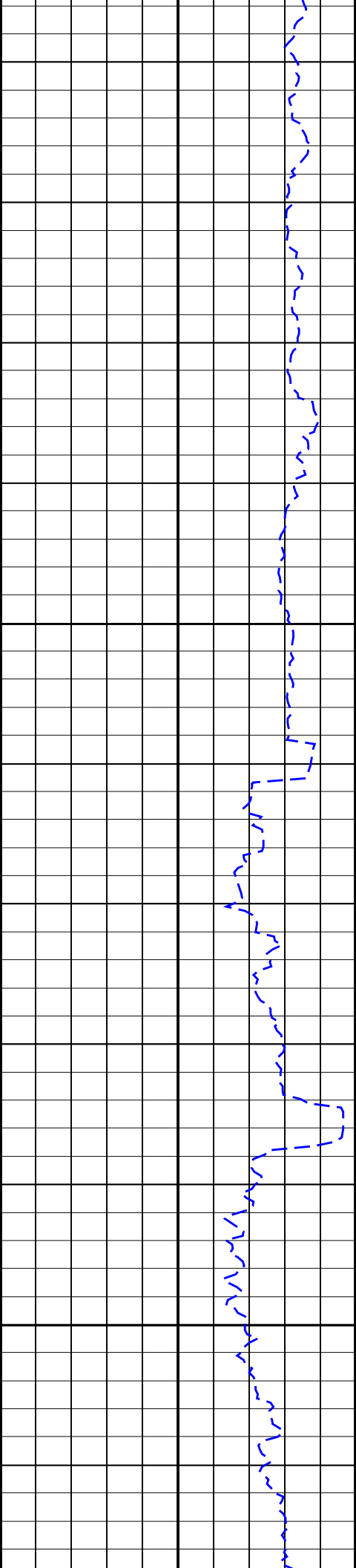


900  
TVD

925  
TVD

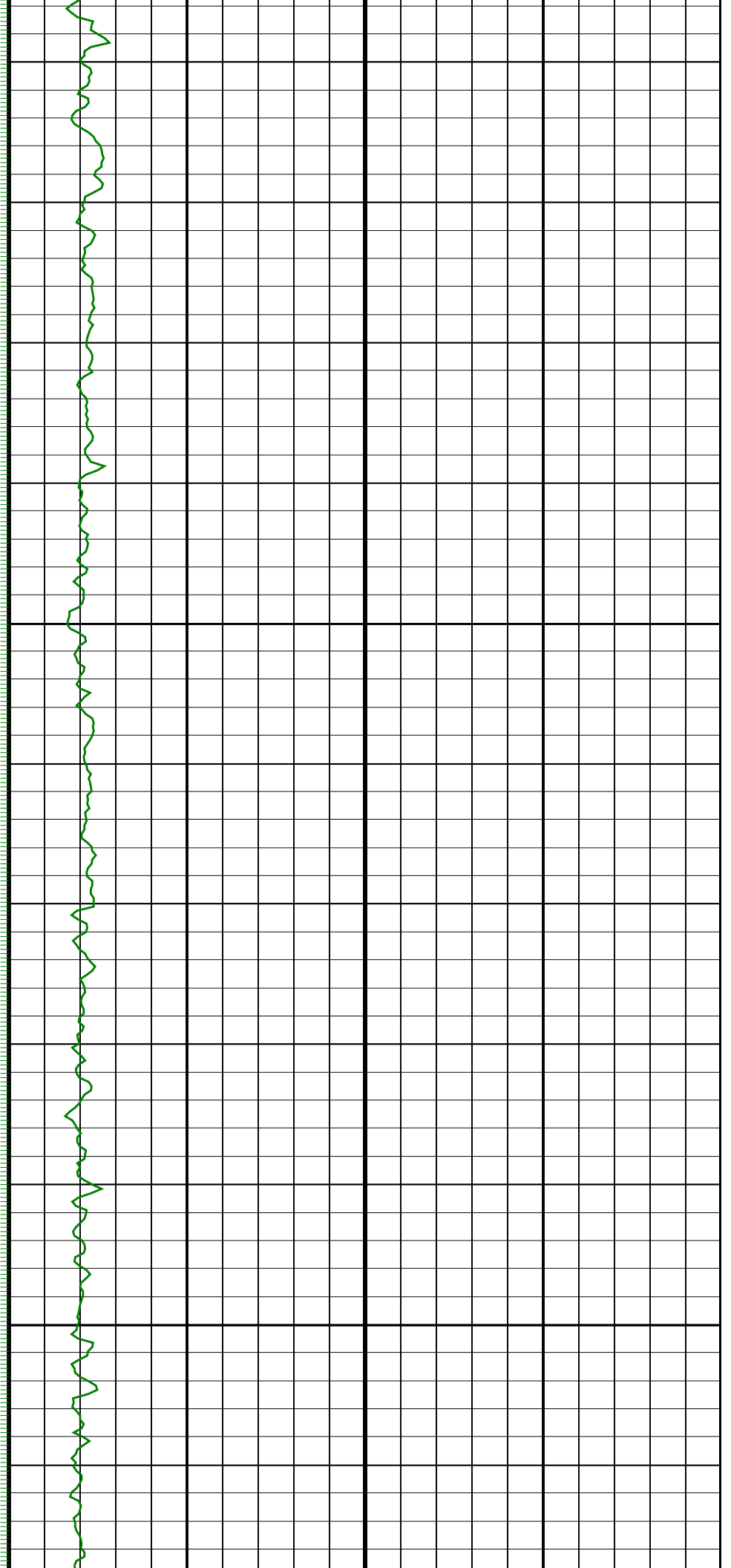


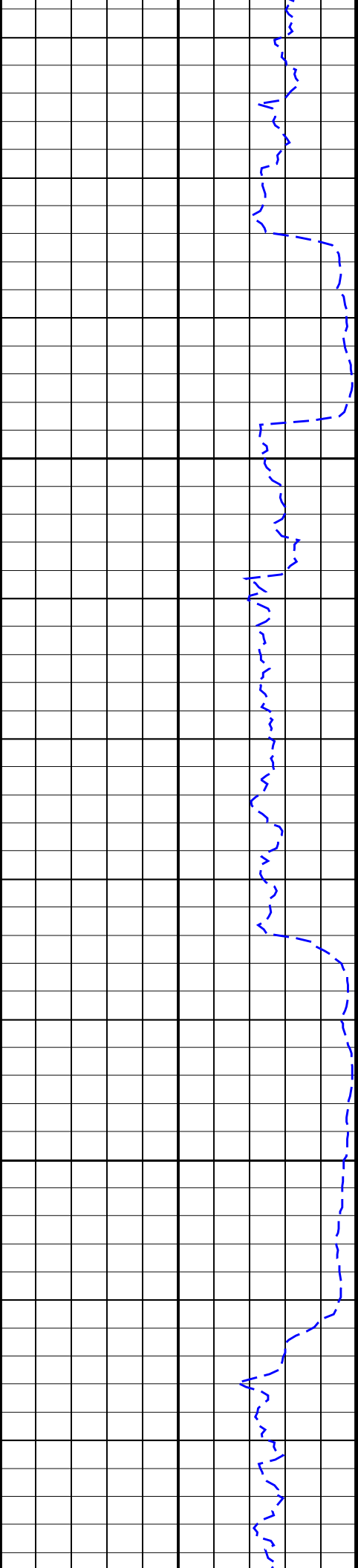




1025  
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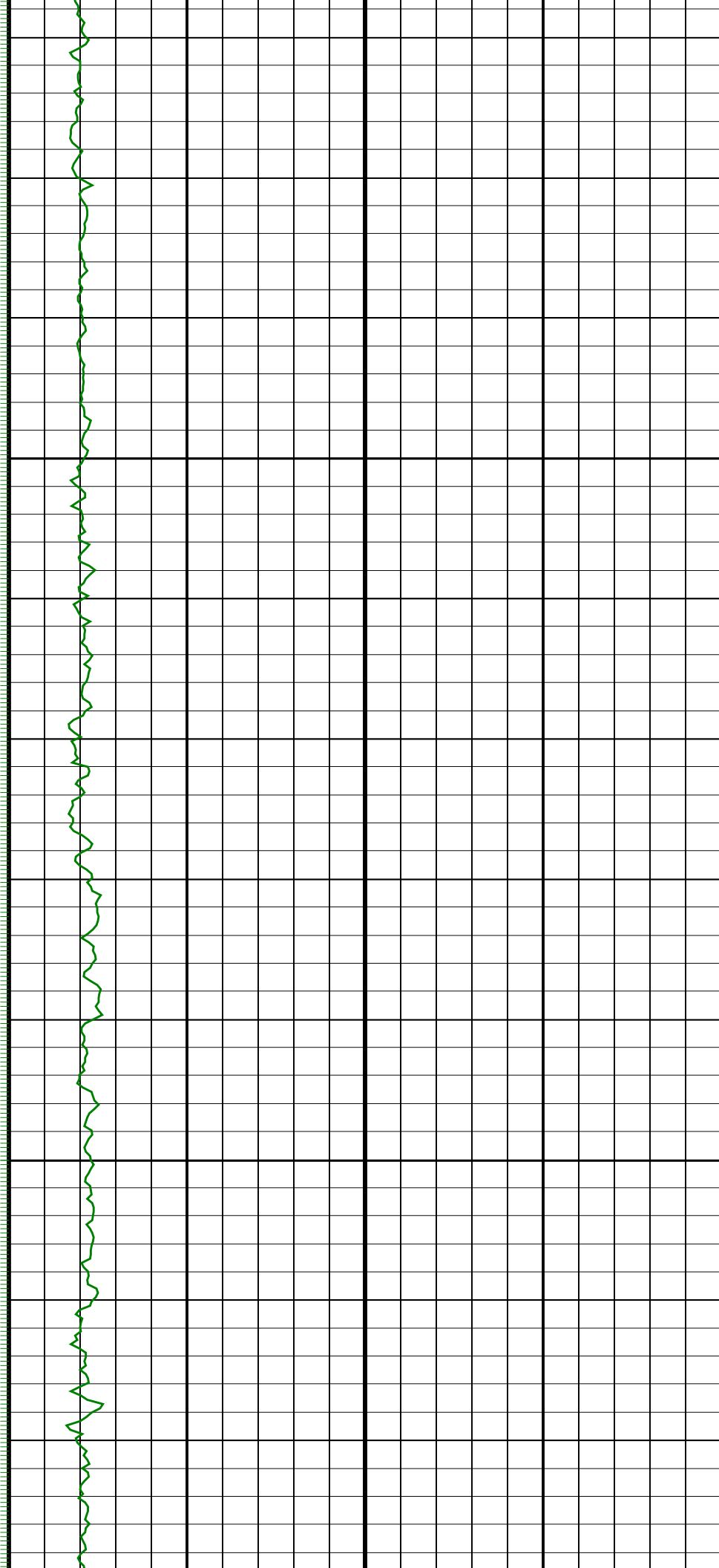
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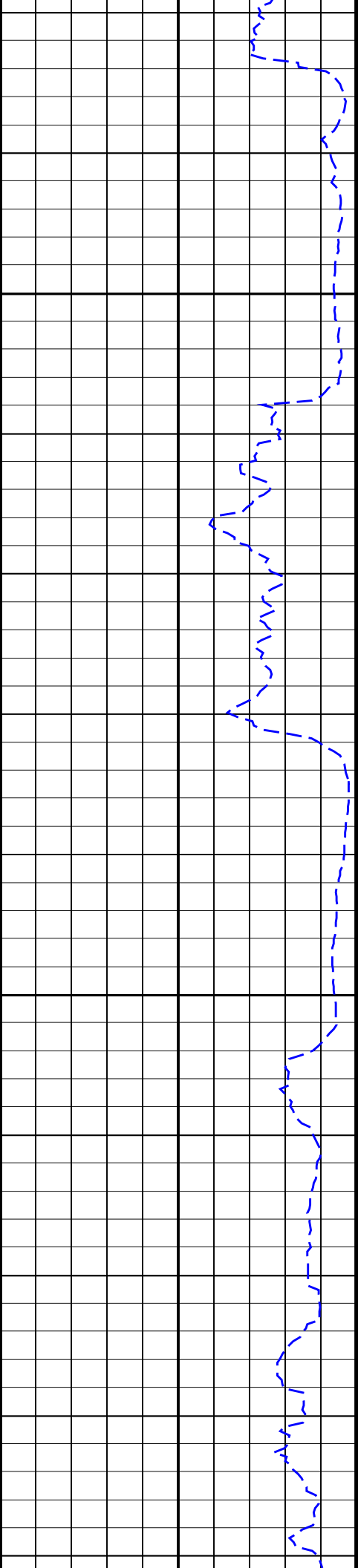




1075  
TVD

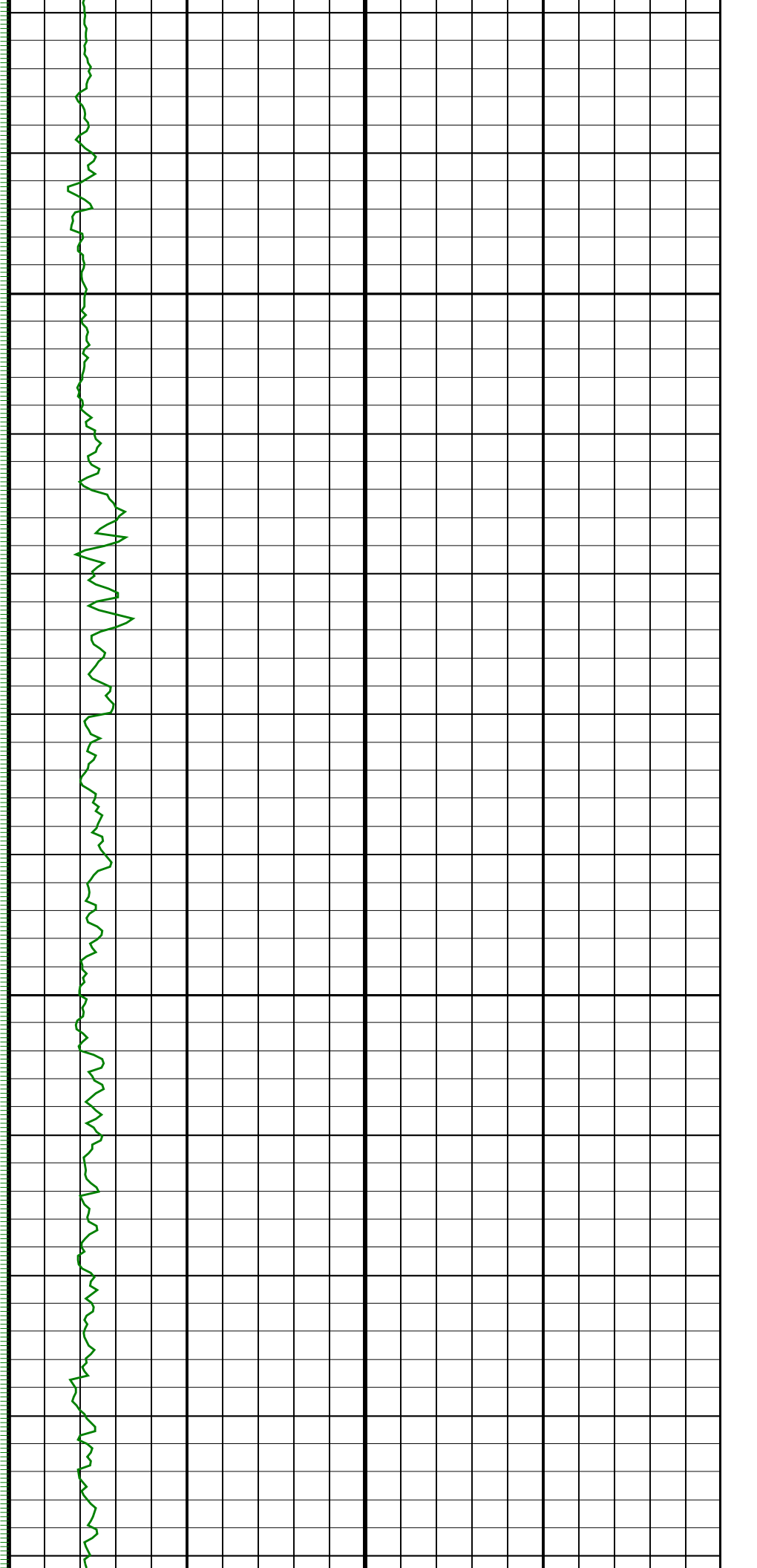
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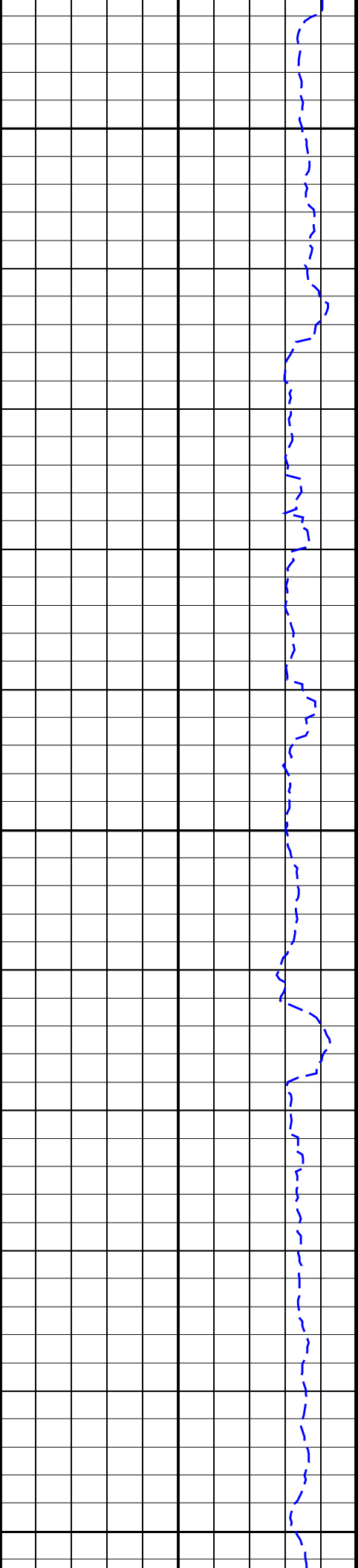




1125  
TVD

1150  
TVD

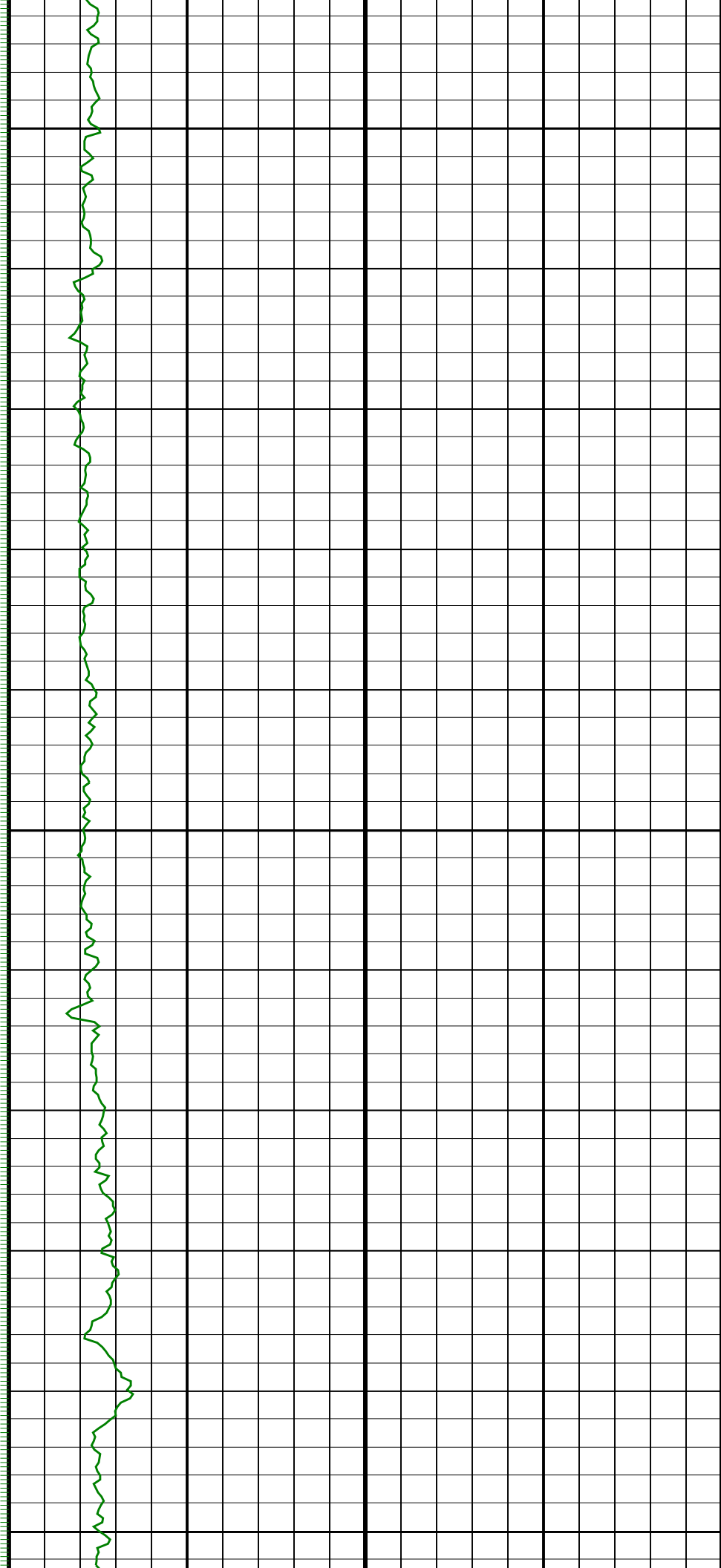


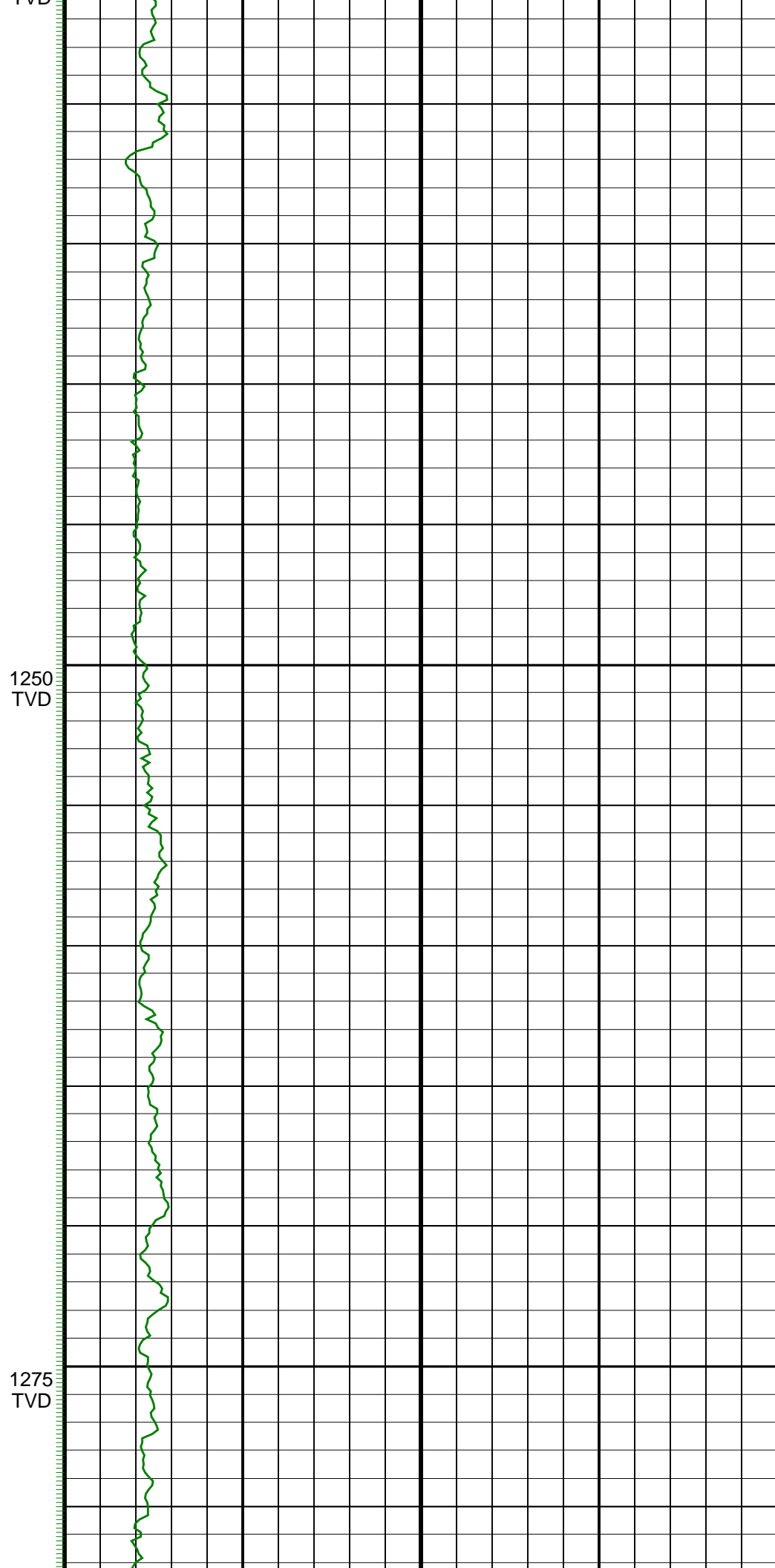
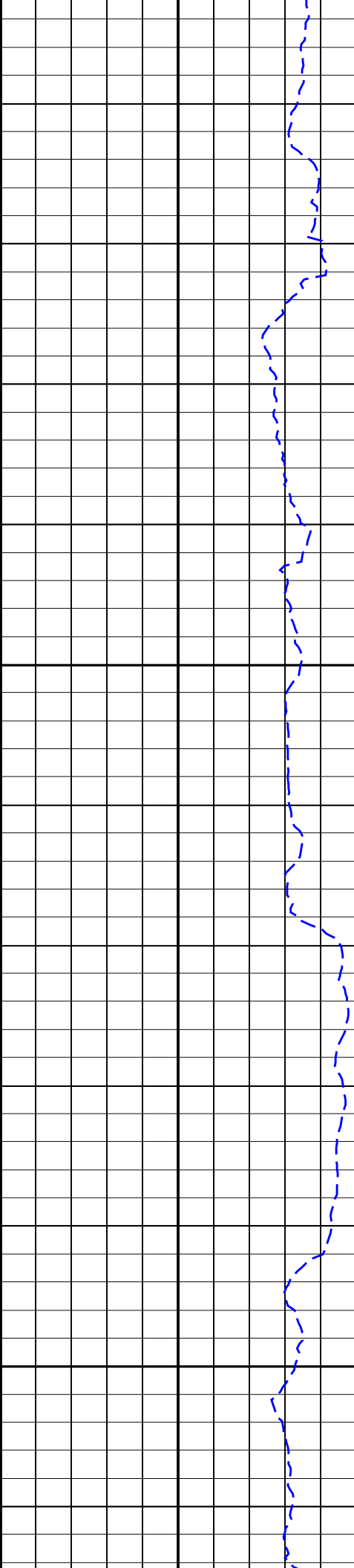


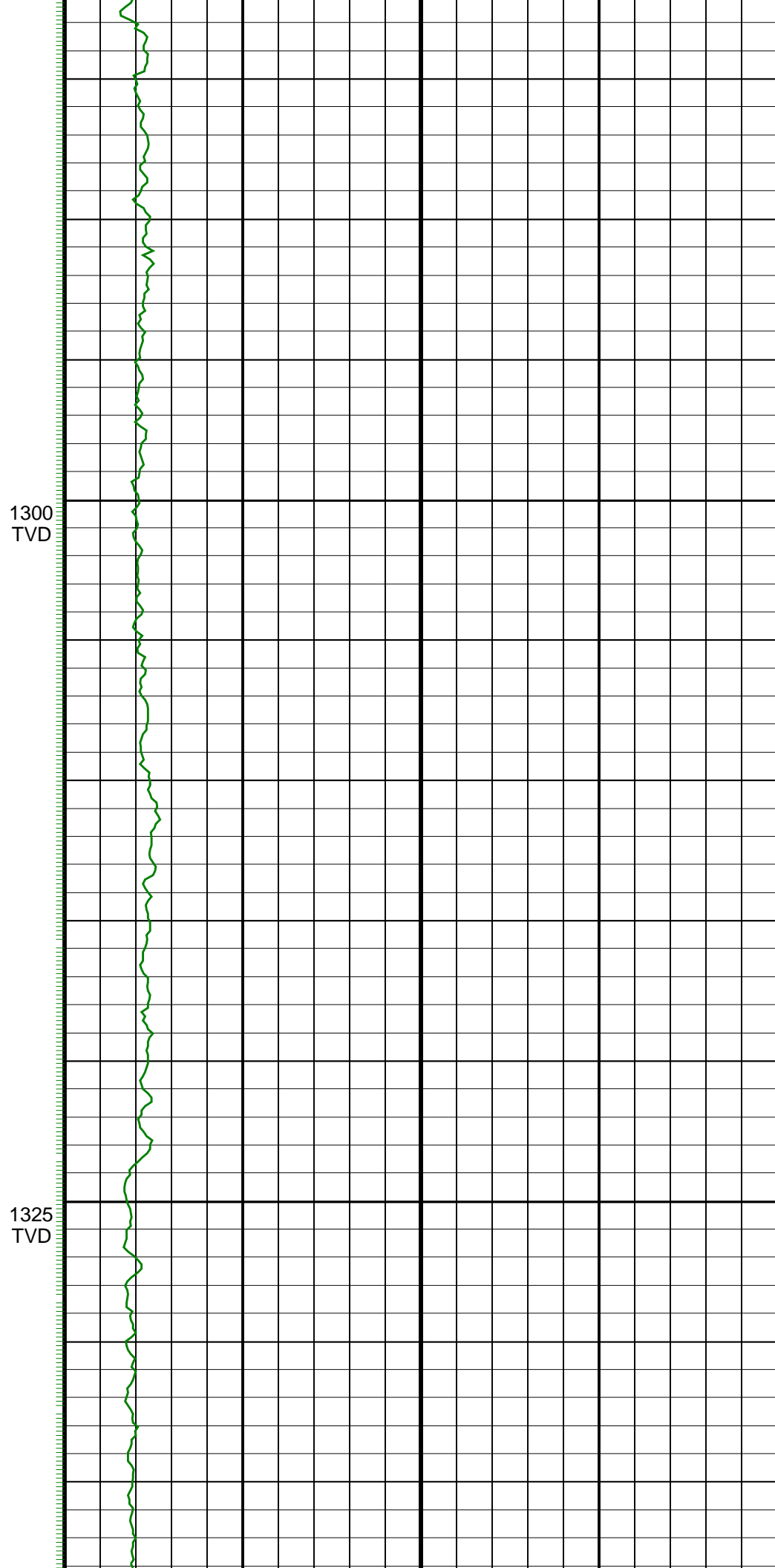
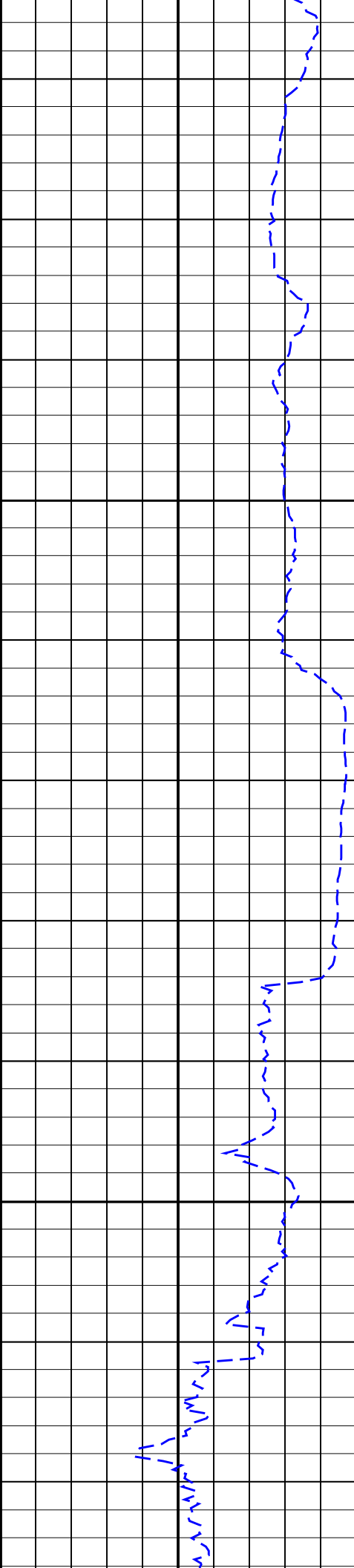
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TVD

1200  
TVD

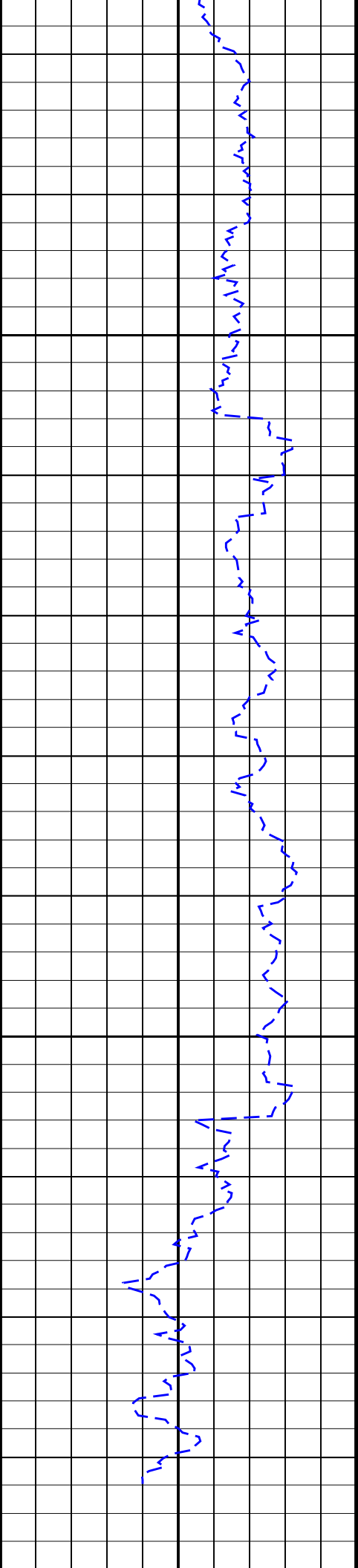
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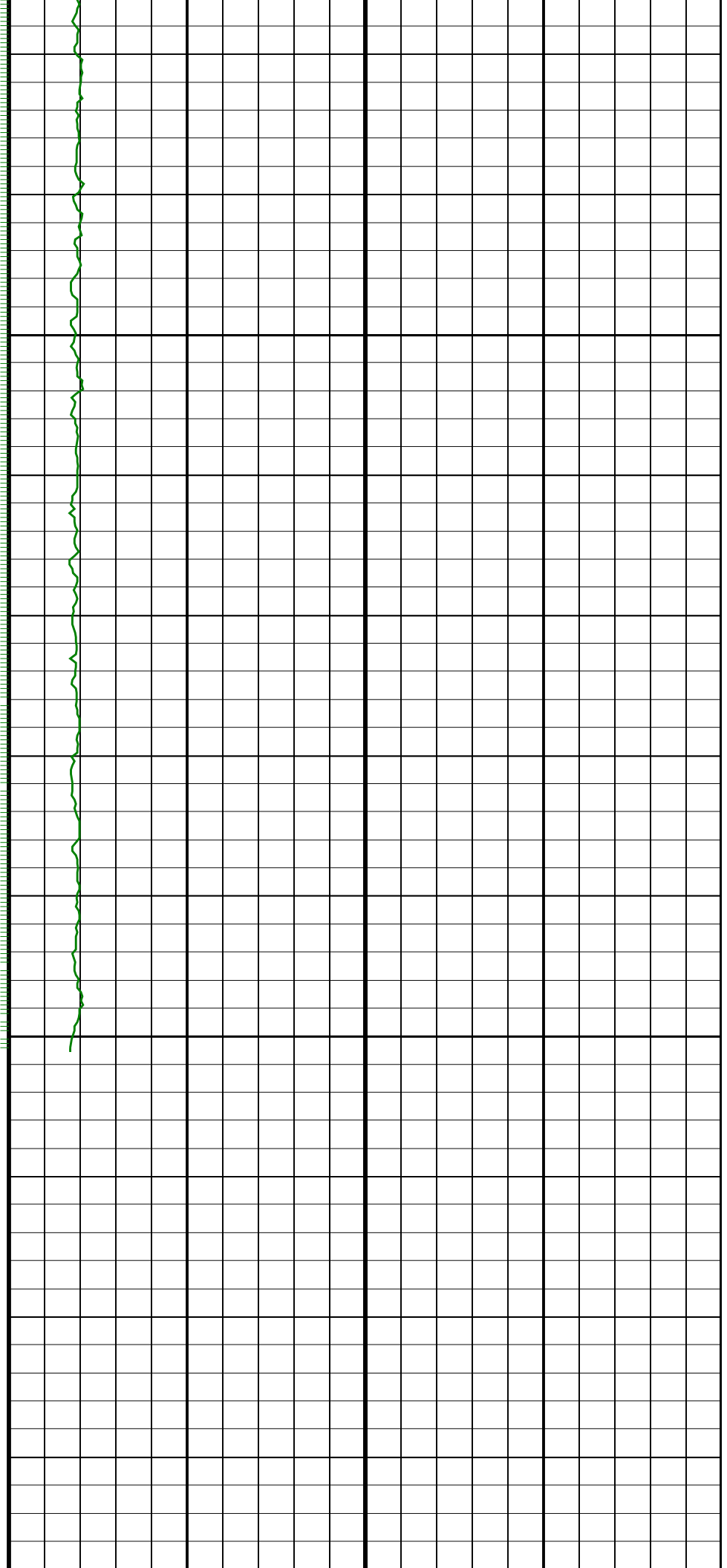


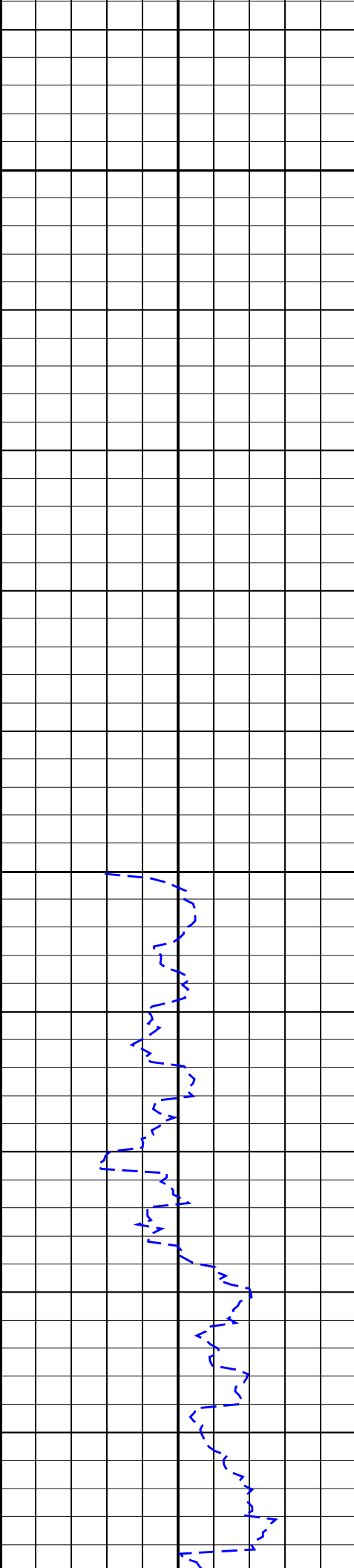




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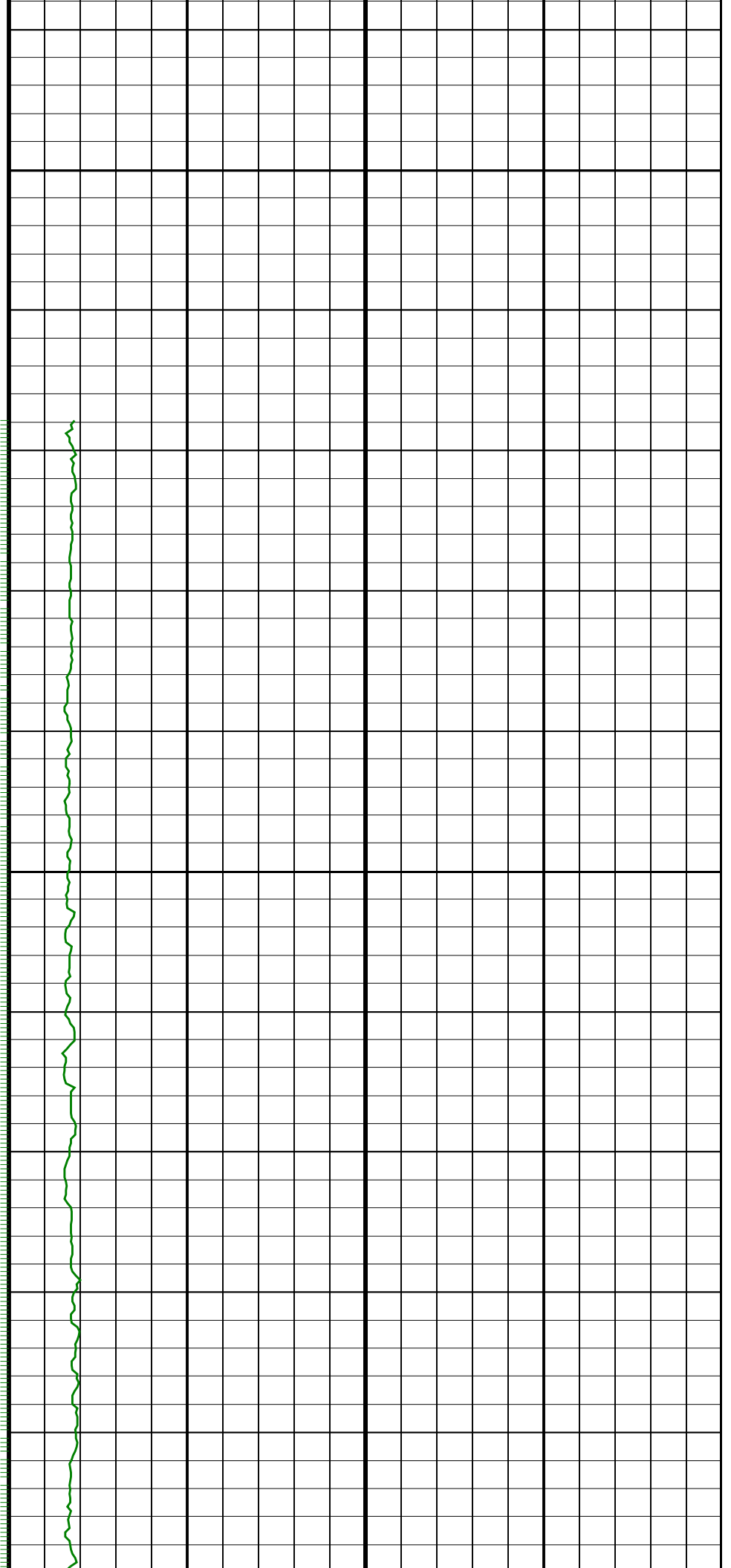
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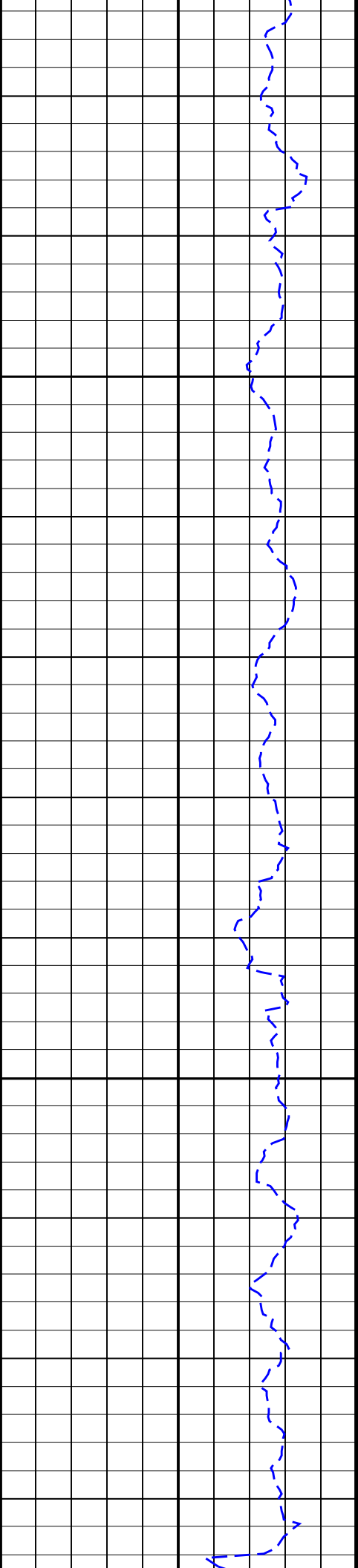
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TVD

1425  
TVD



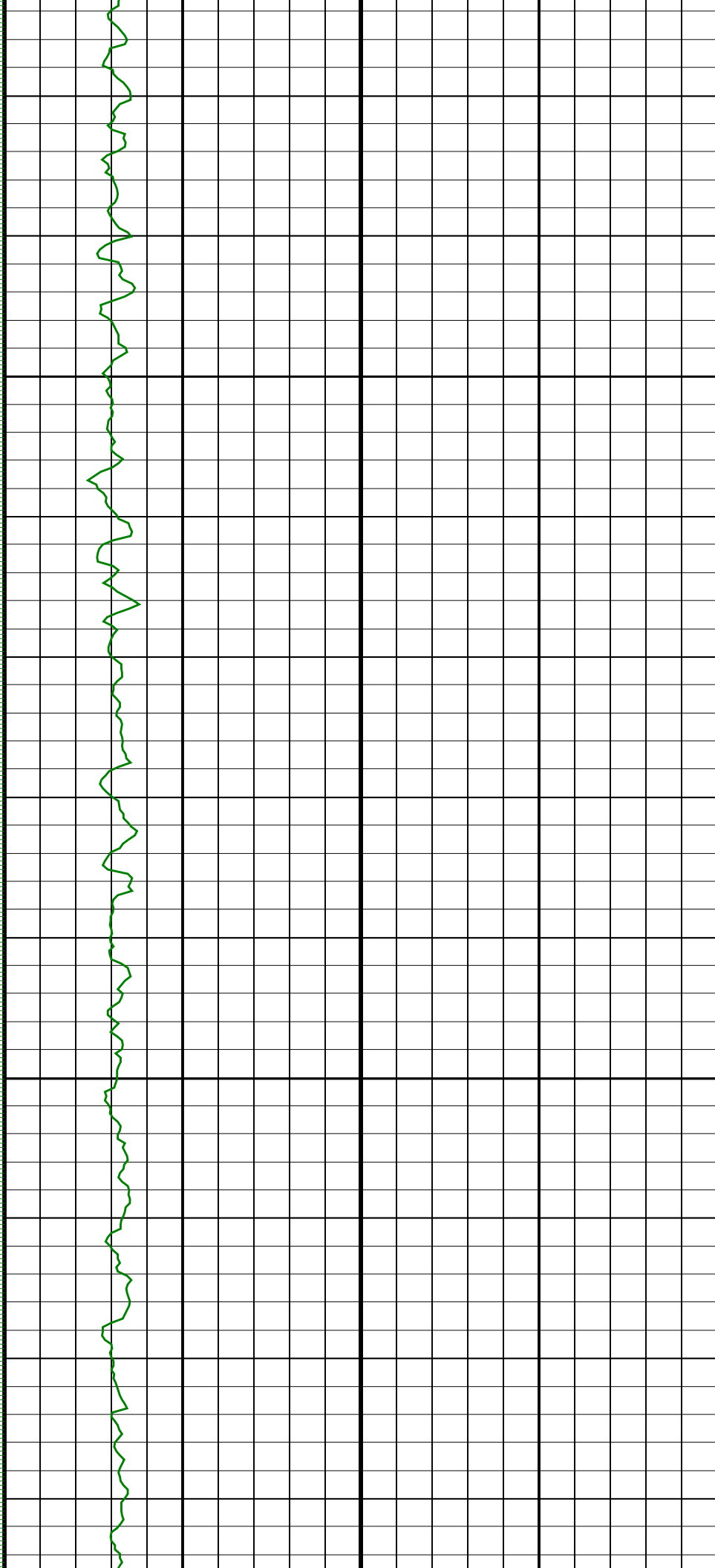


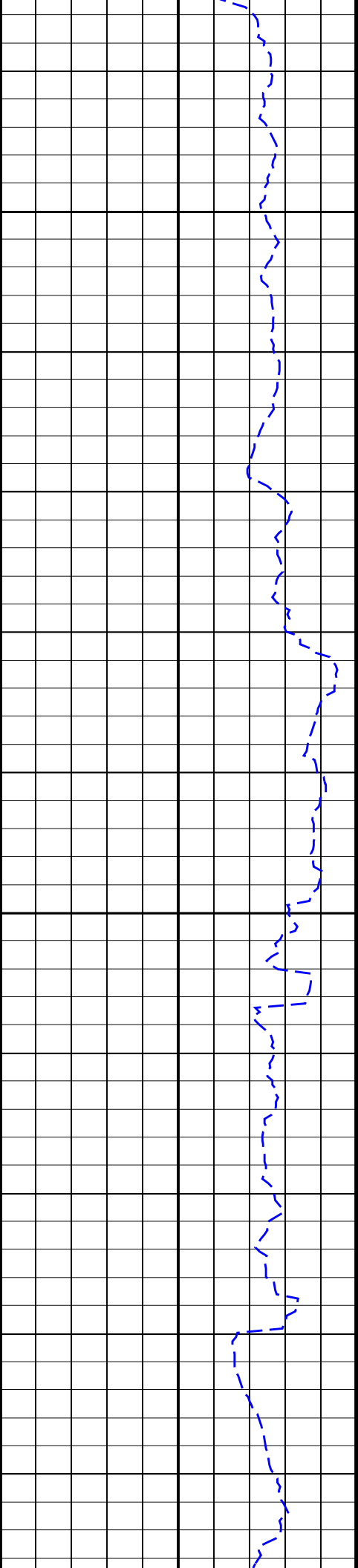




1575  
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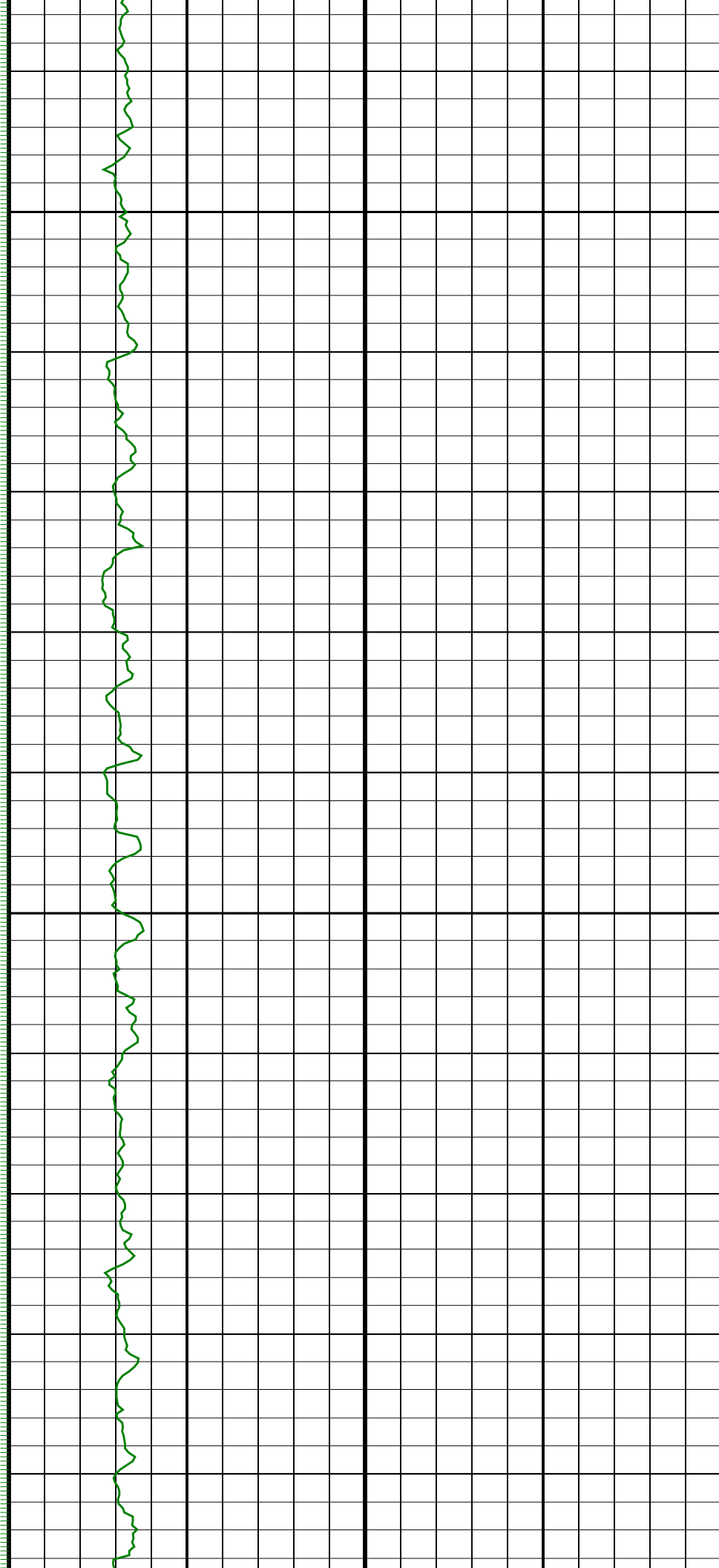
1600  
TVD

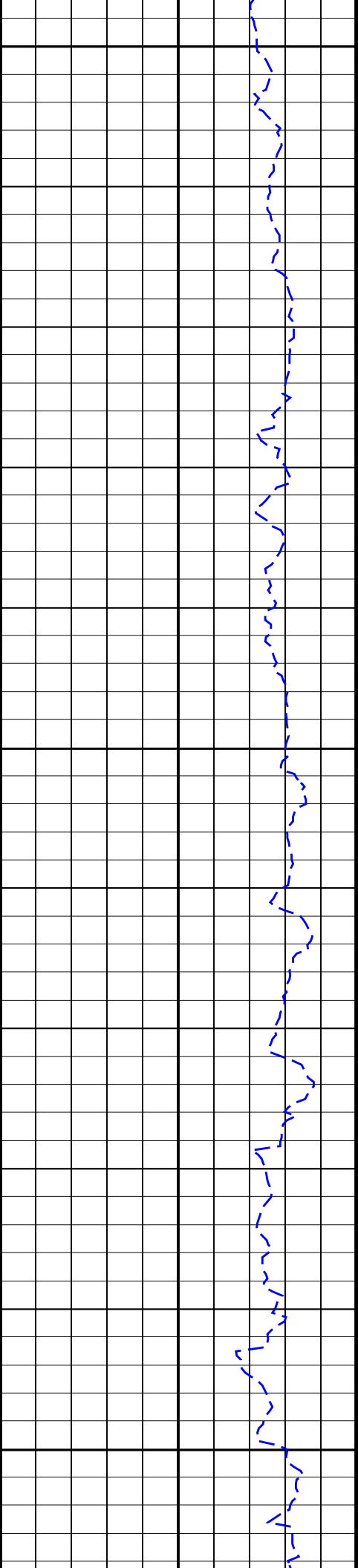




1625  
TVD

1650  
TVD

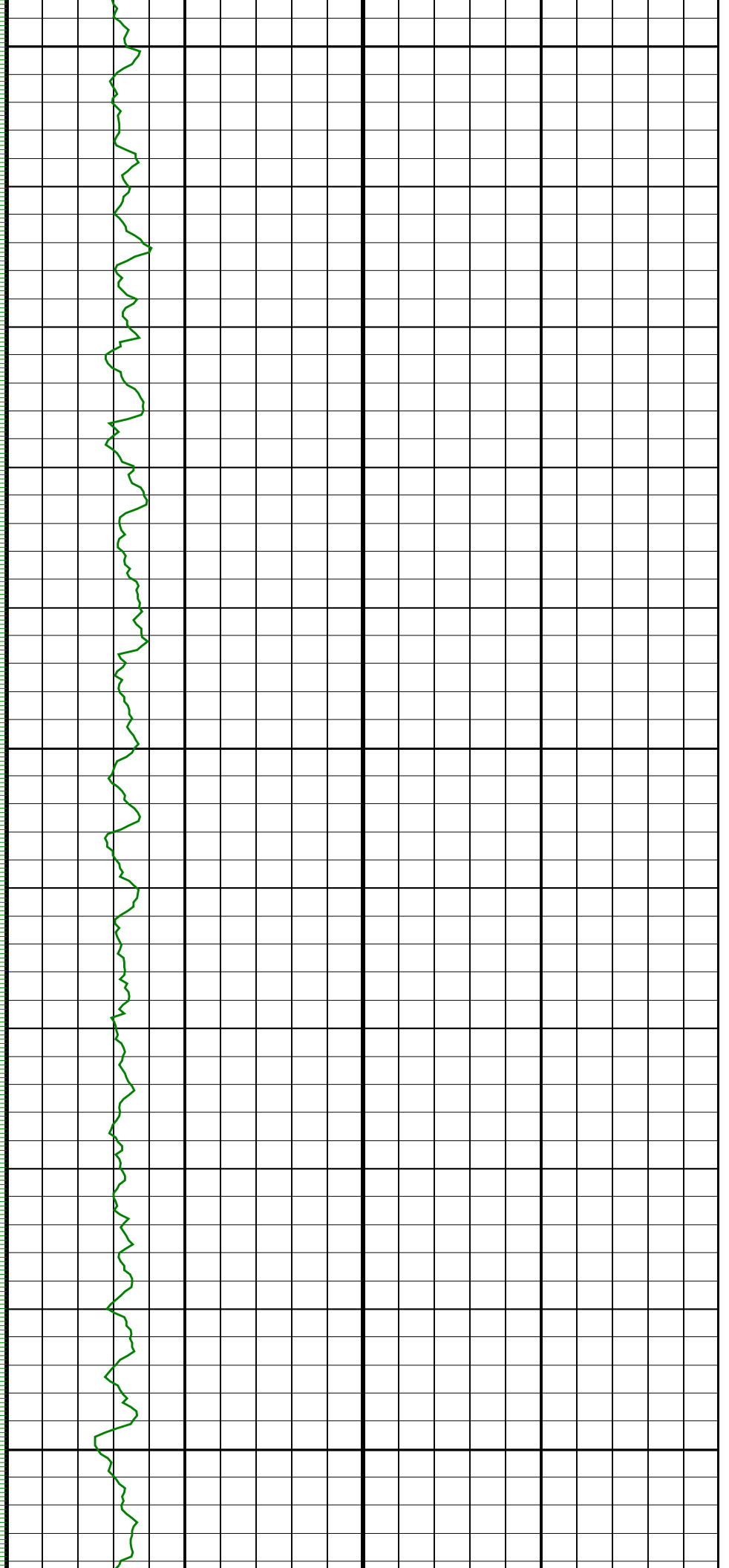


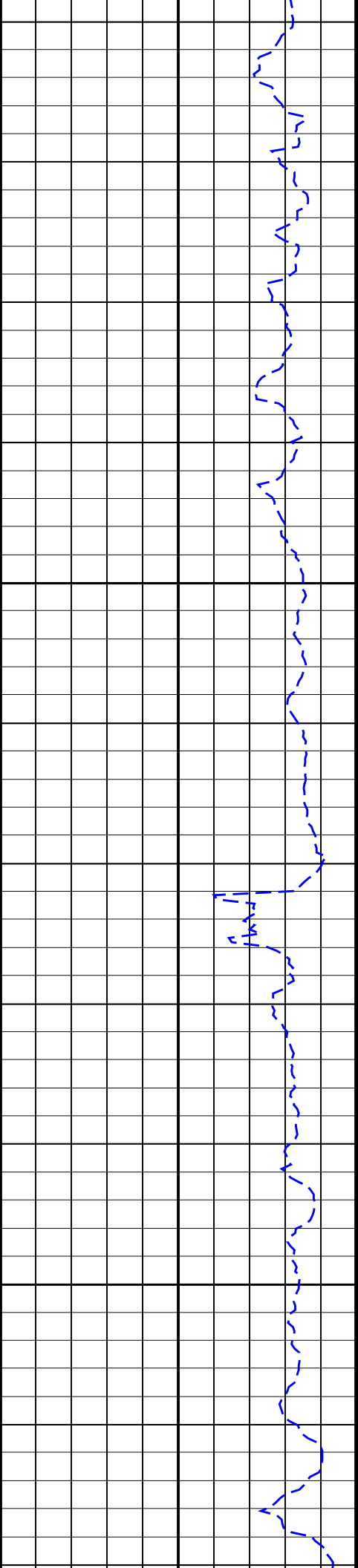


1675  
TVD

1700  
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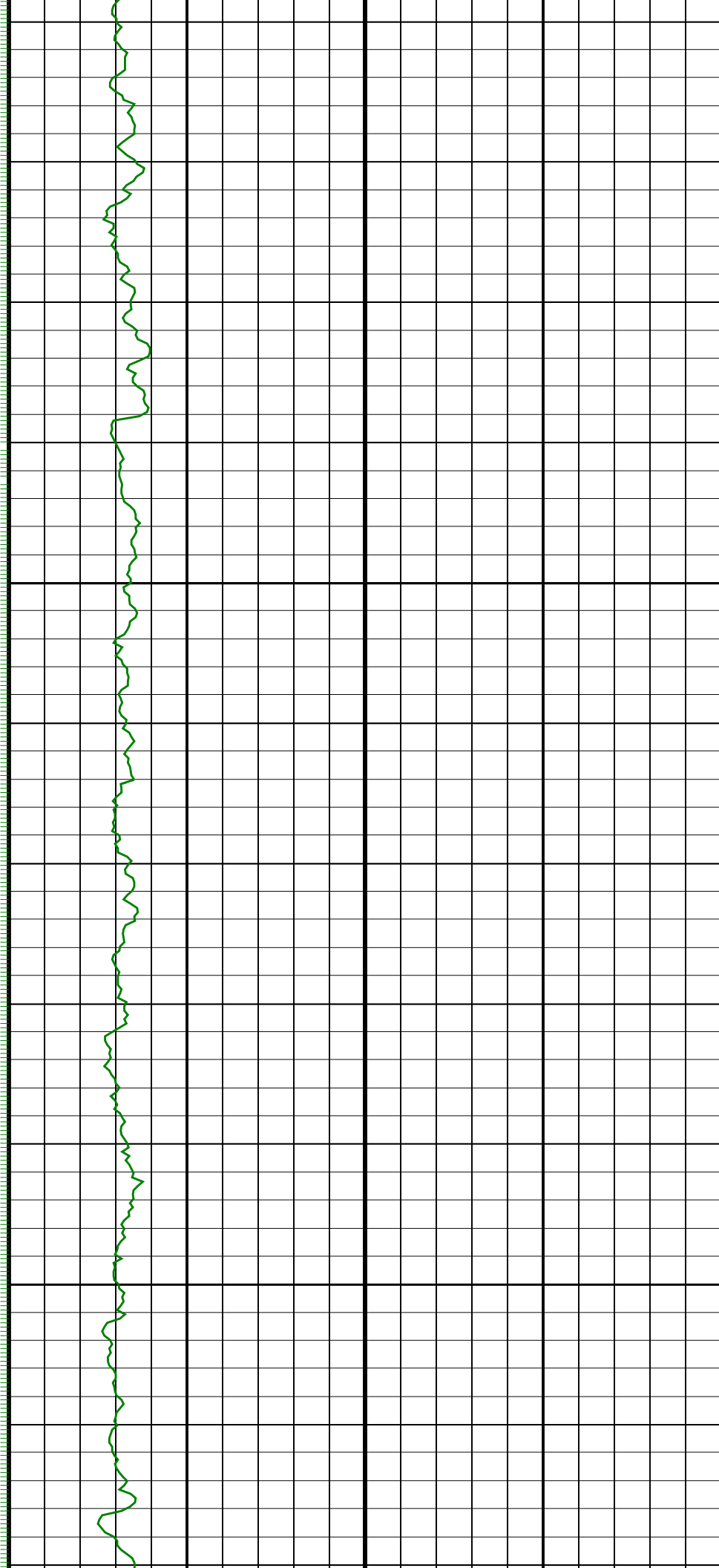
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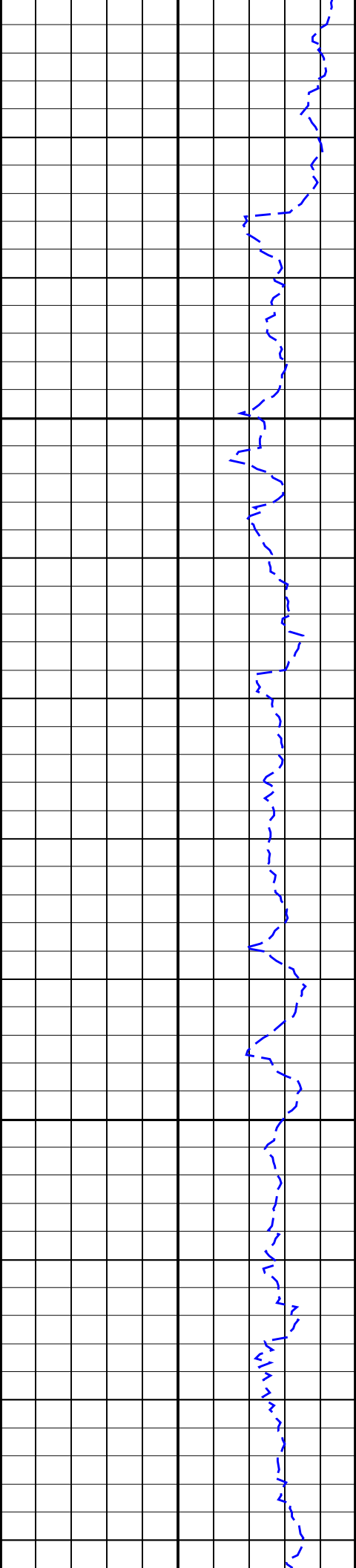


1750  
TVD

1775  
TVD

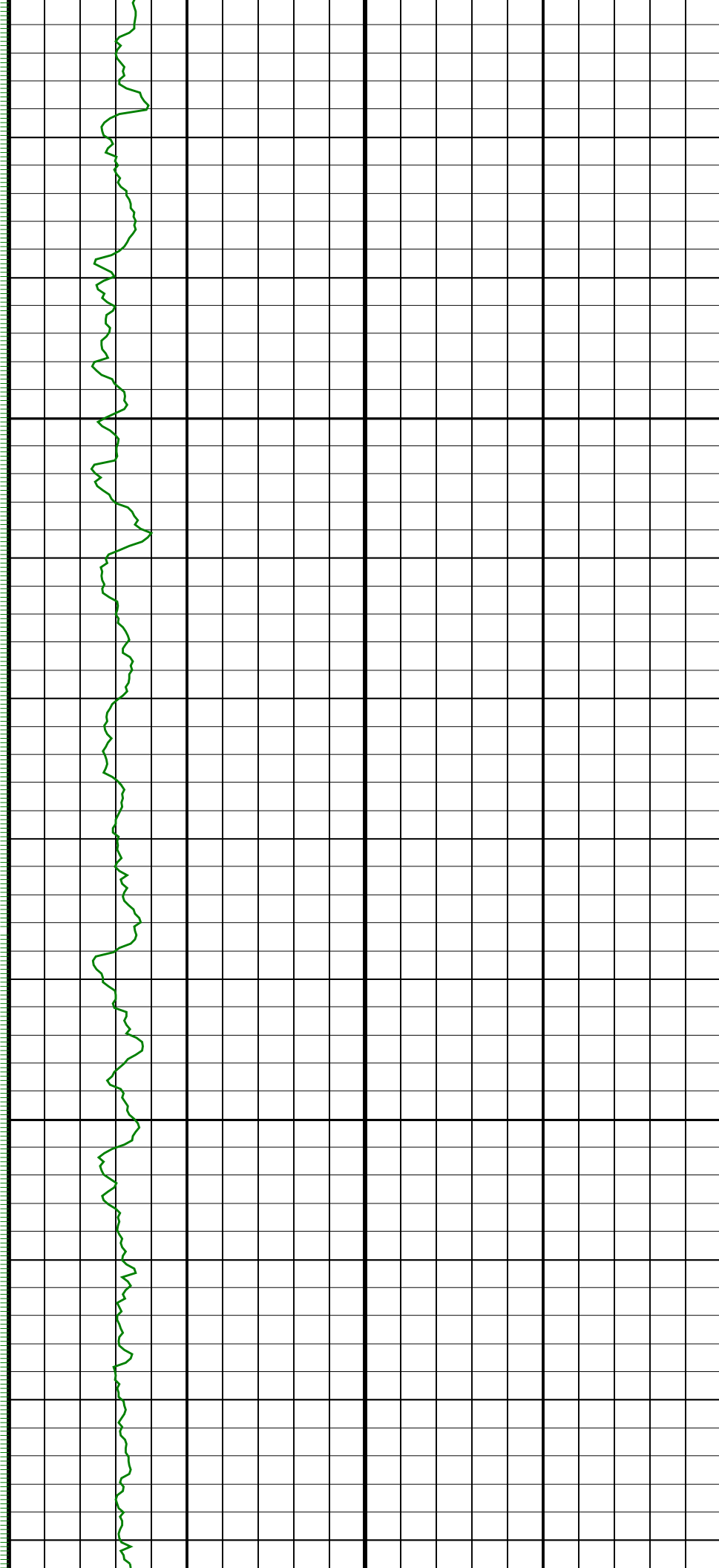


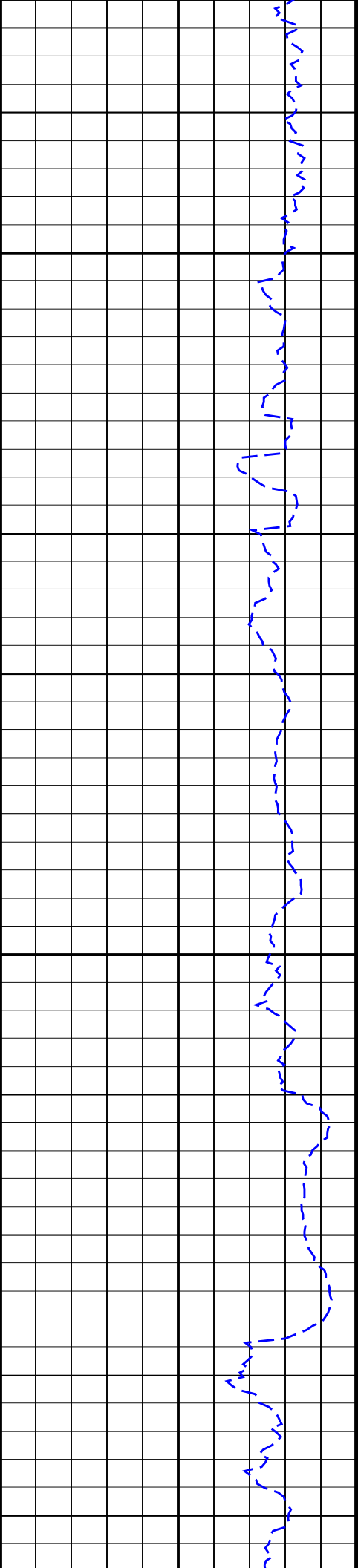




1800  
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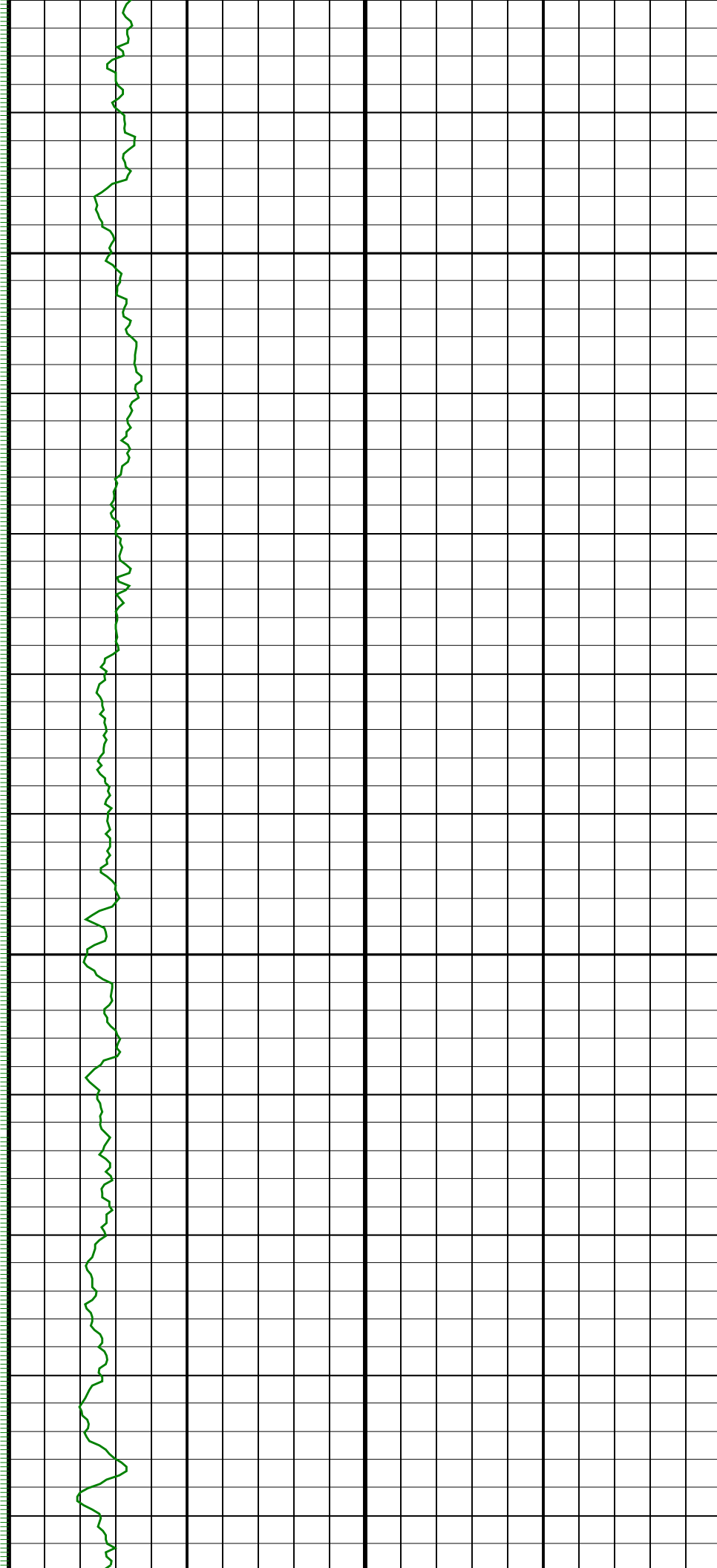
1825  
TVD

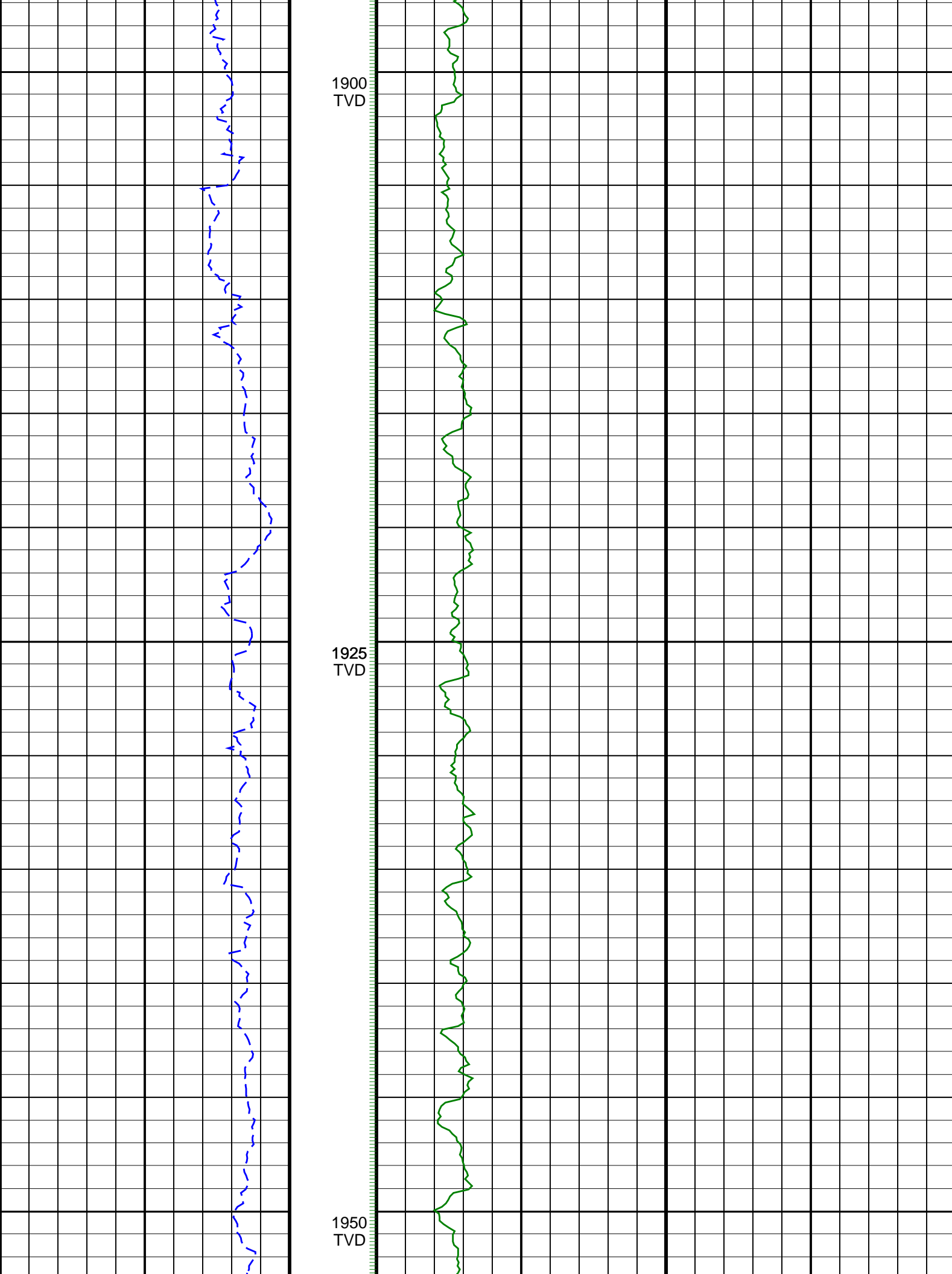


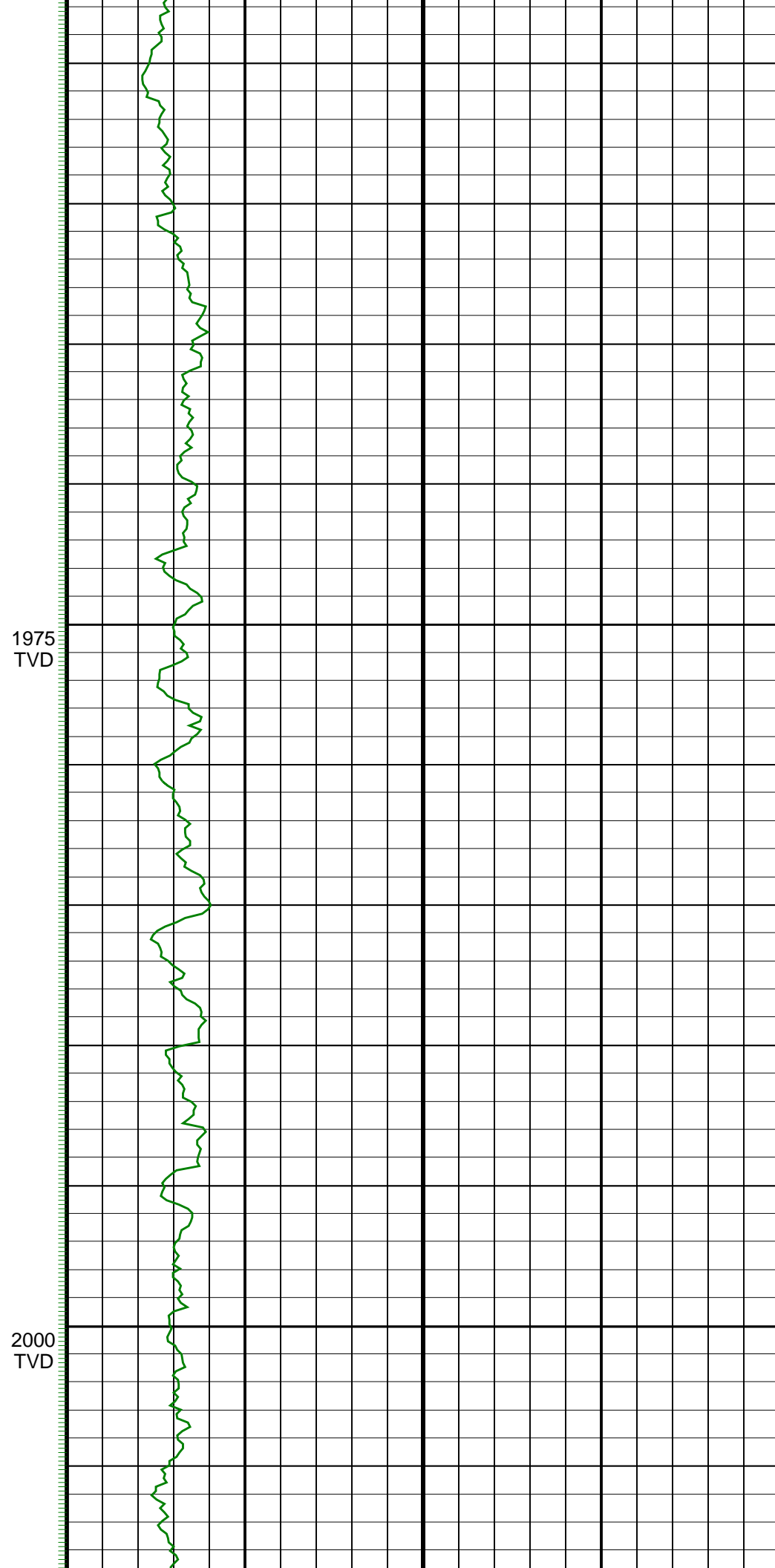
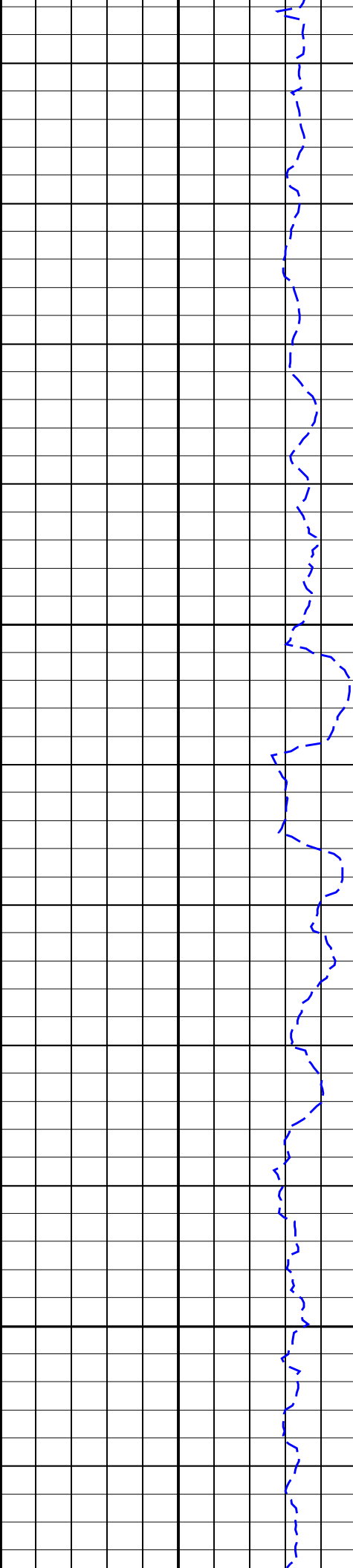


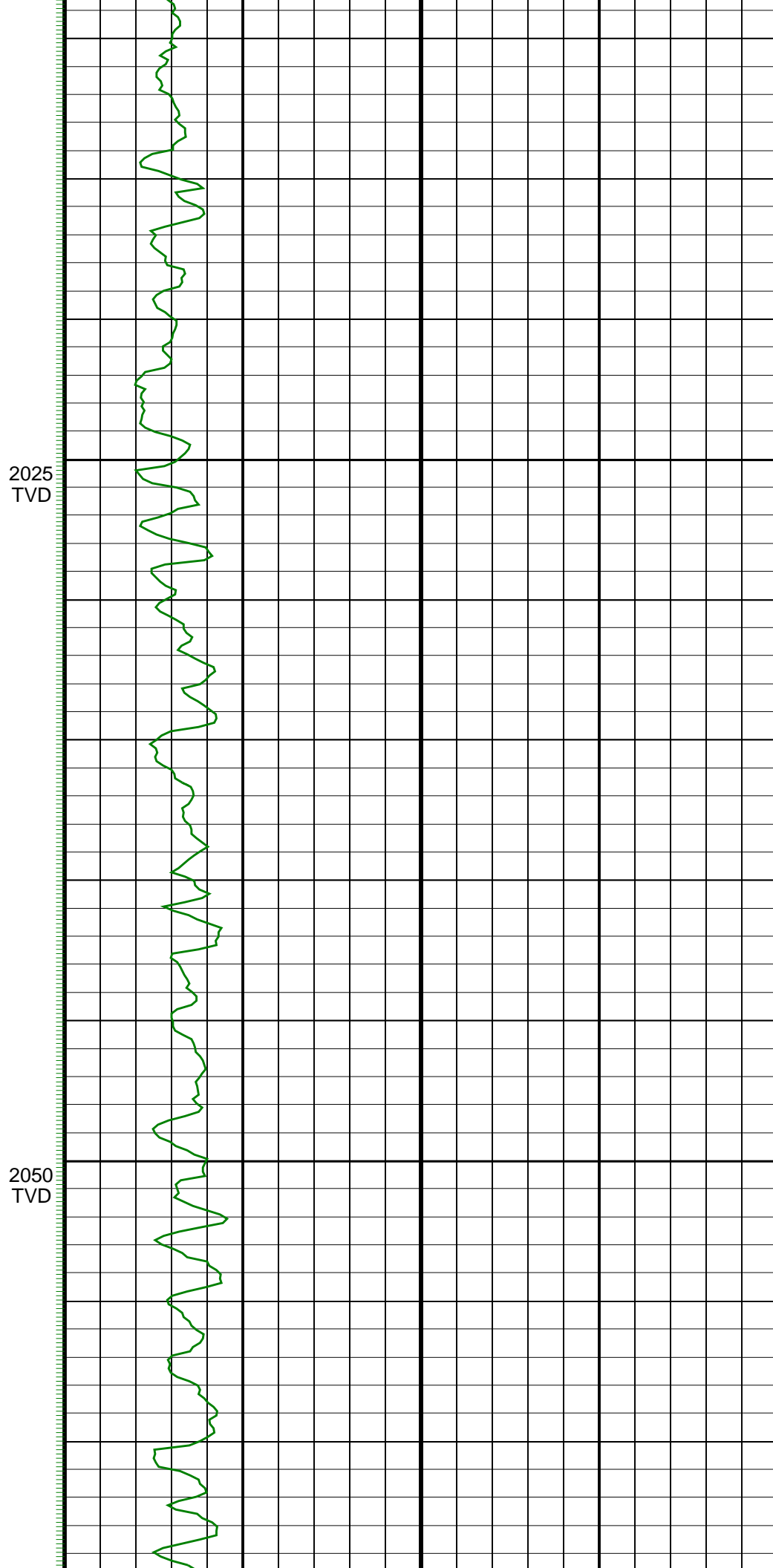
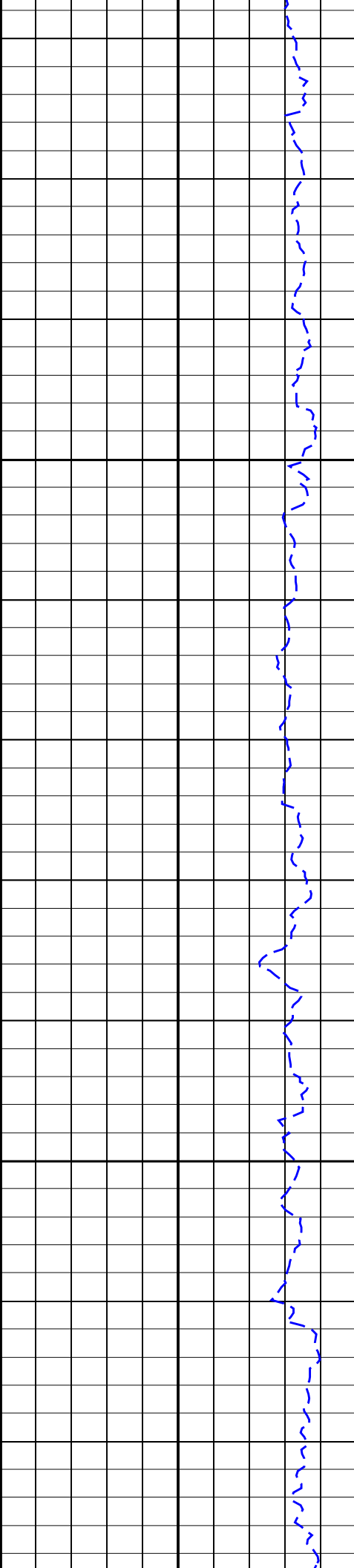
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TVD

1875  
TVD



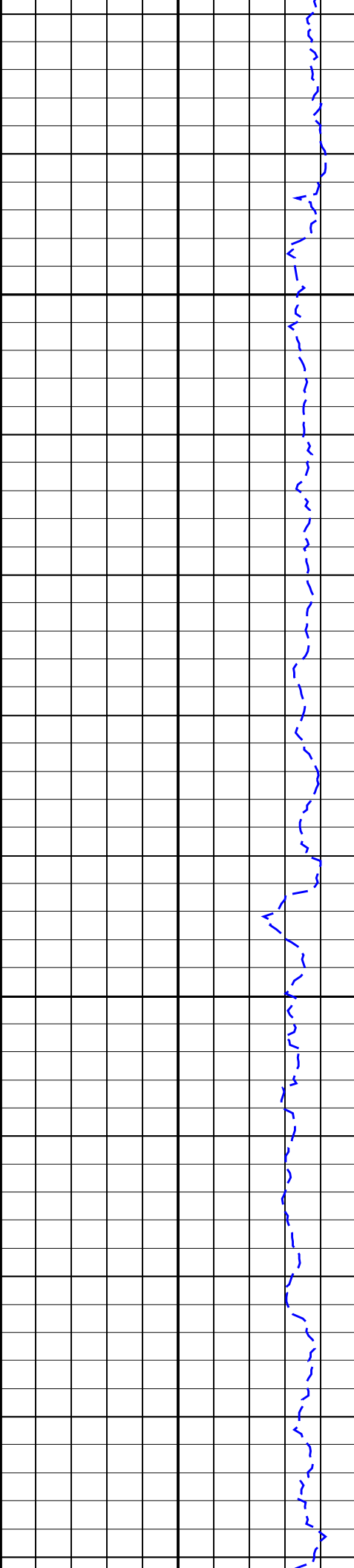






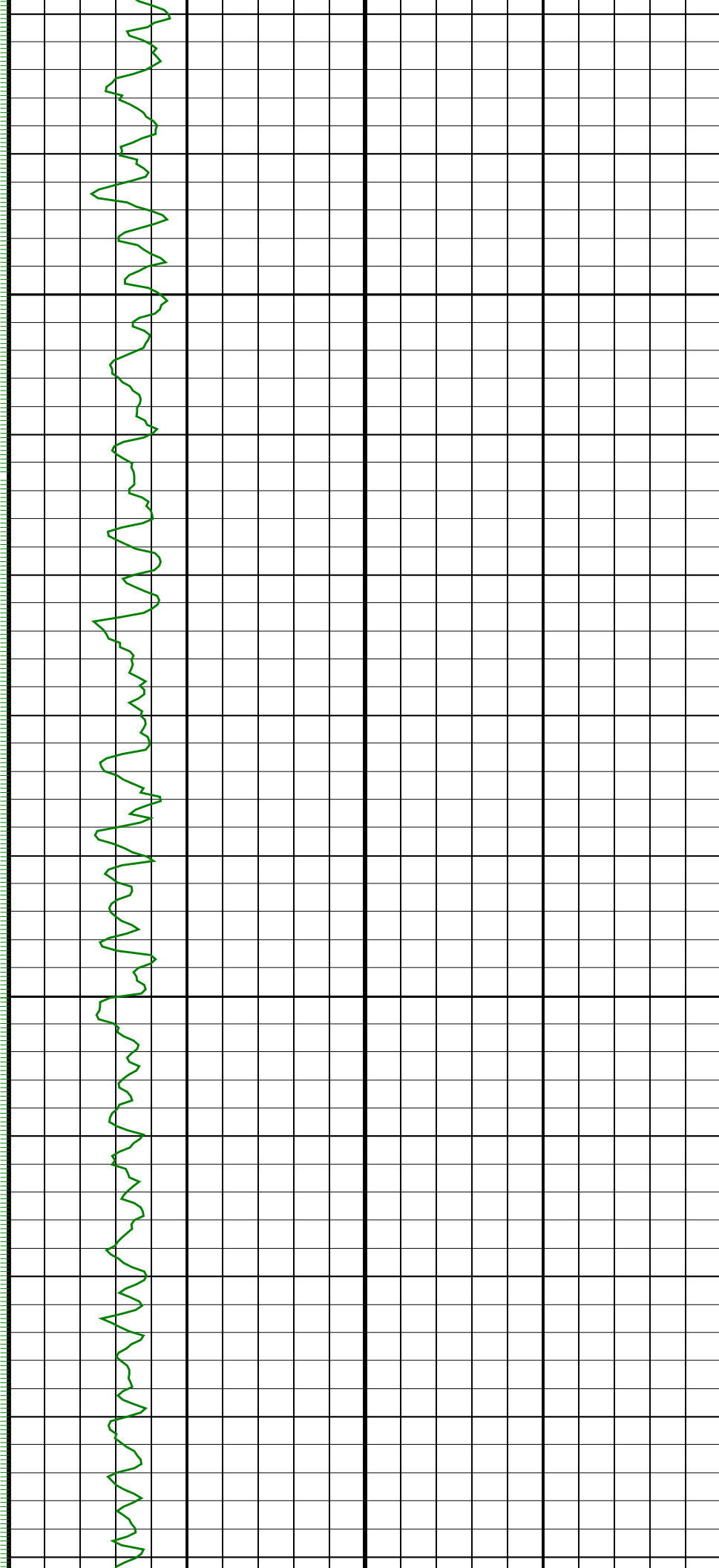
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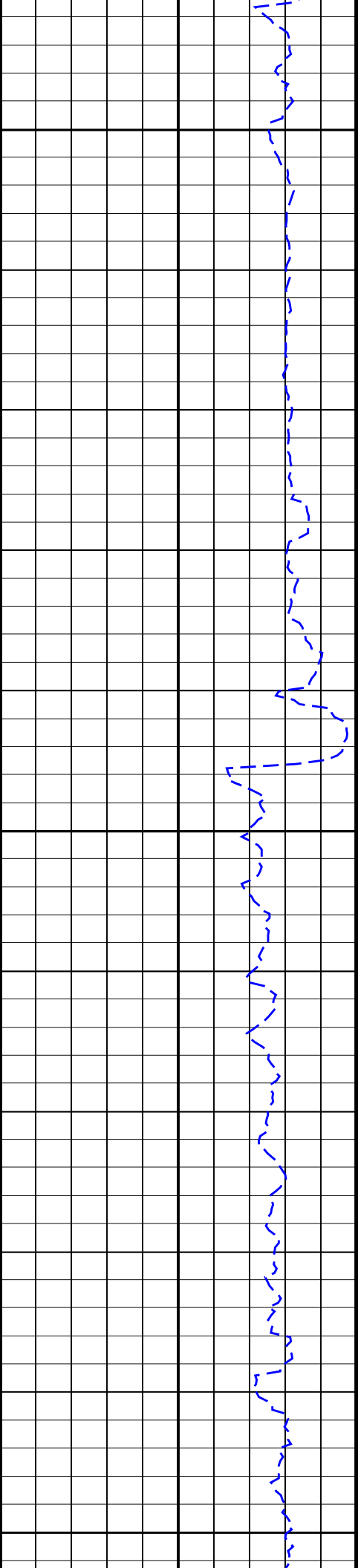
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TVD



2075  
TVD

2100  
TVD

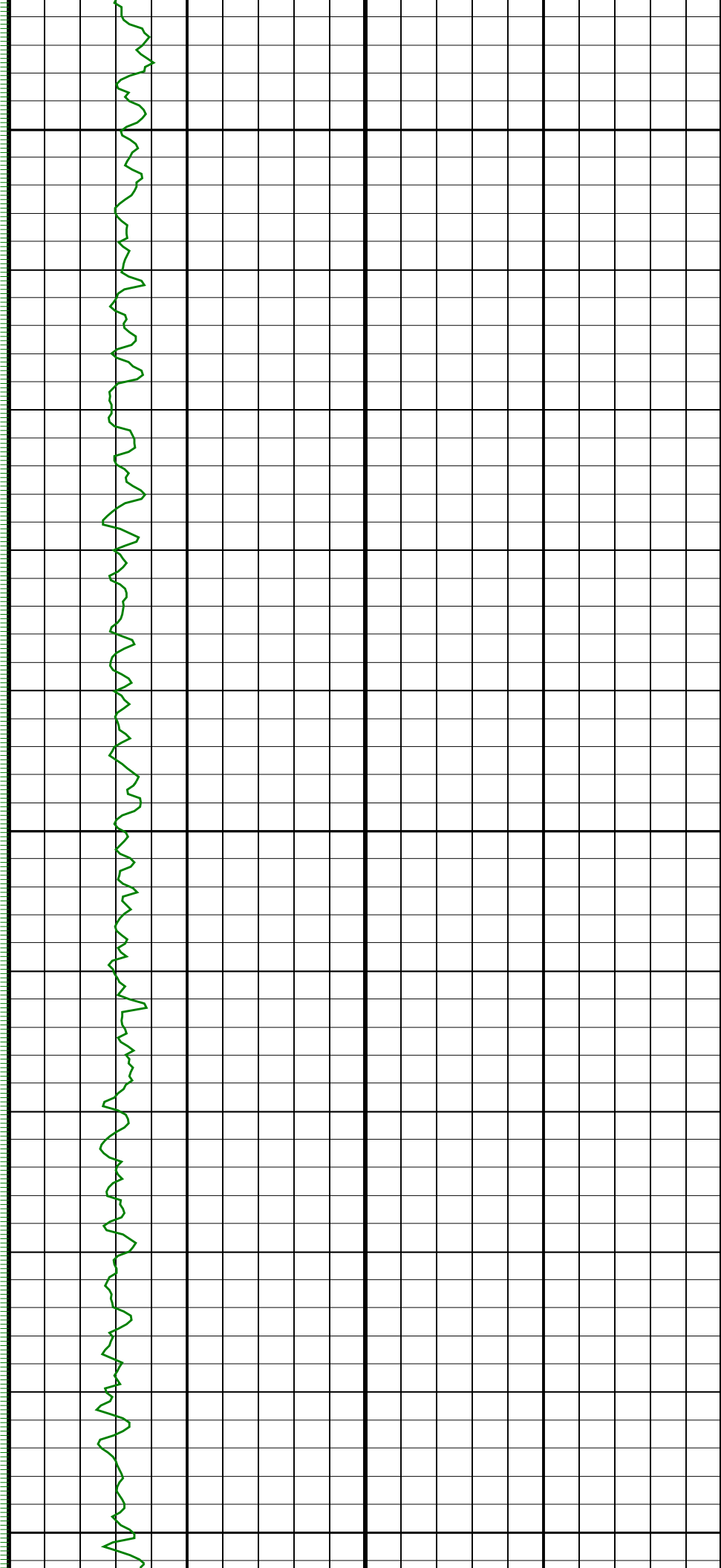


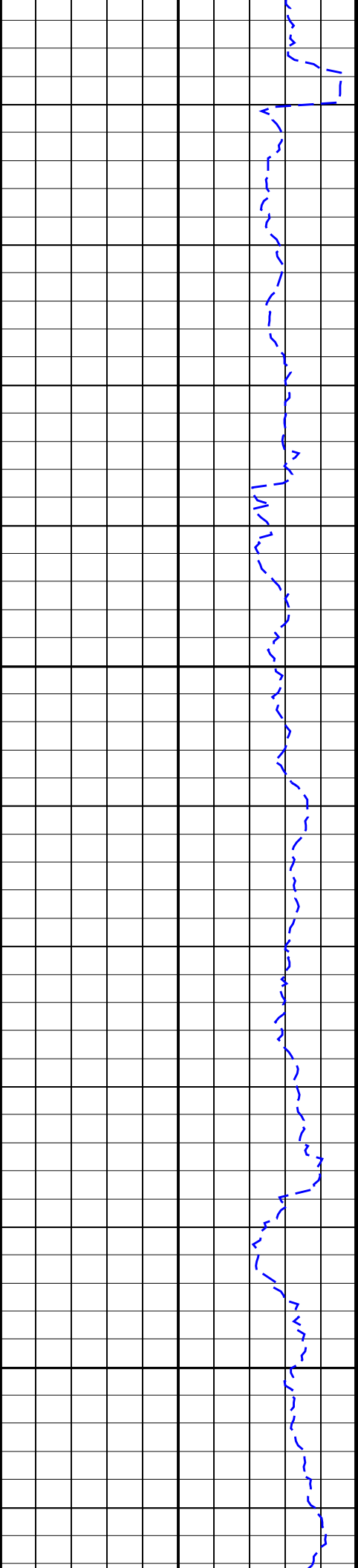


2125  
TVD

2150  
TVD

2175  
TVD

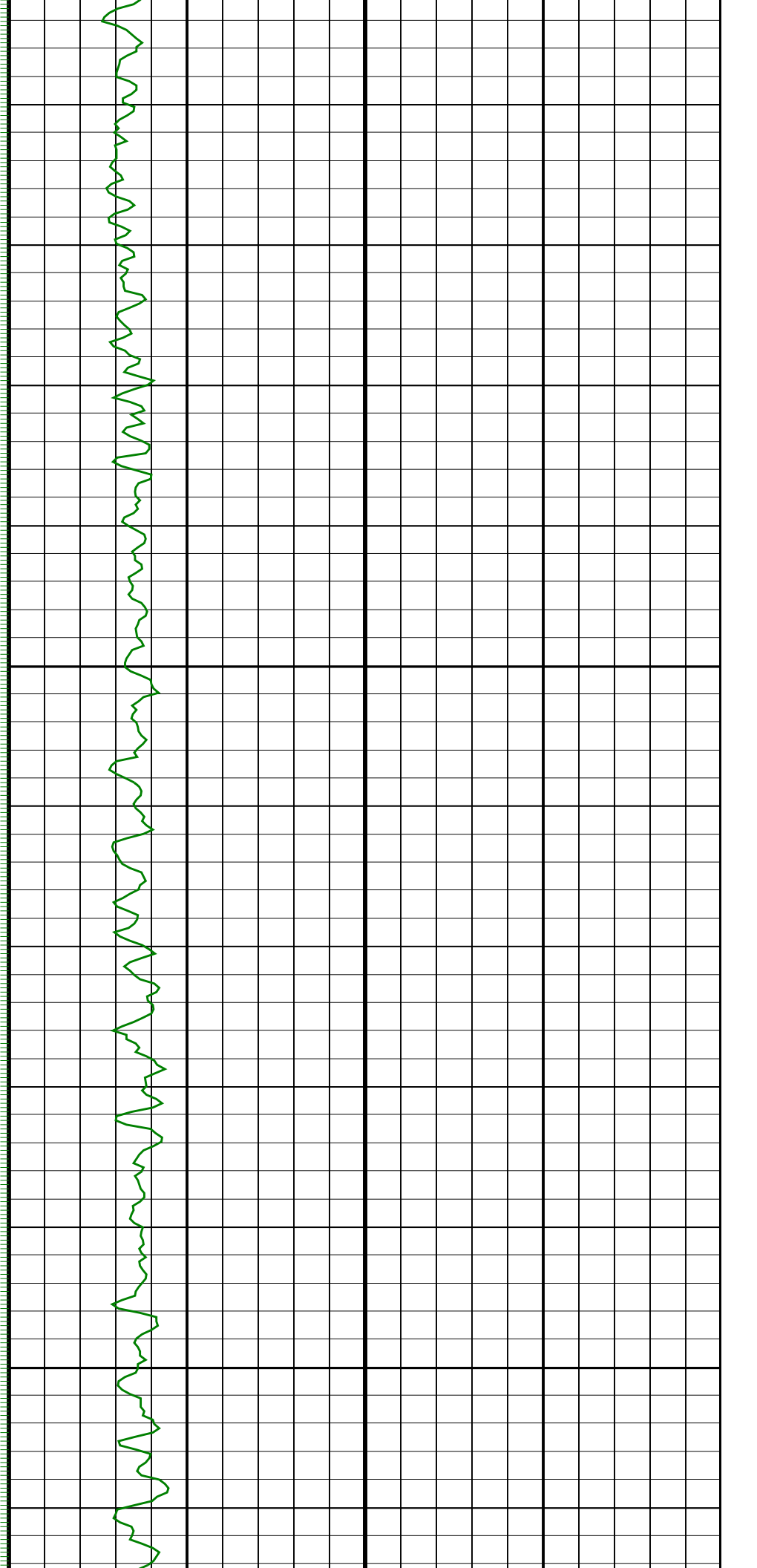




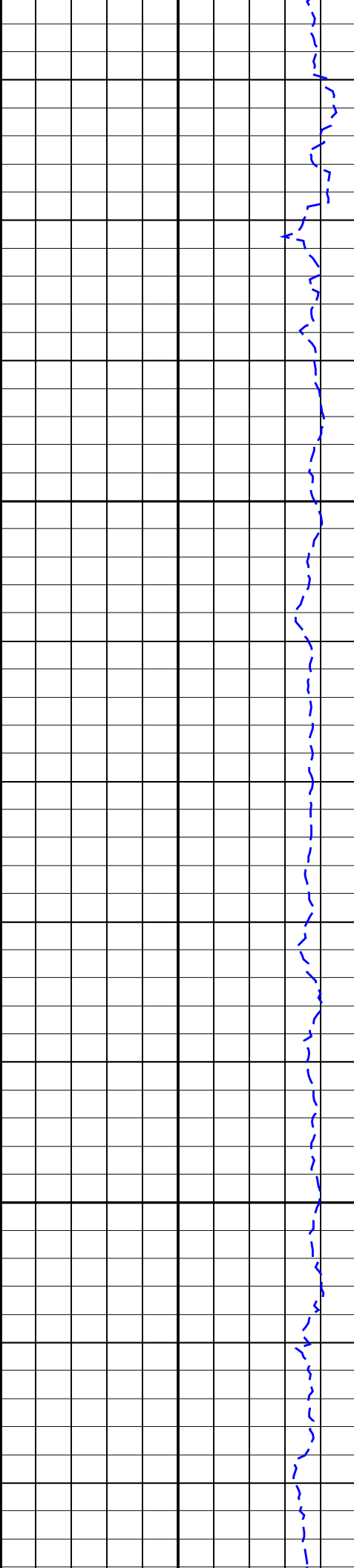
TVD

2200  
TVD

2225  
TVD

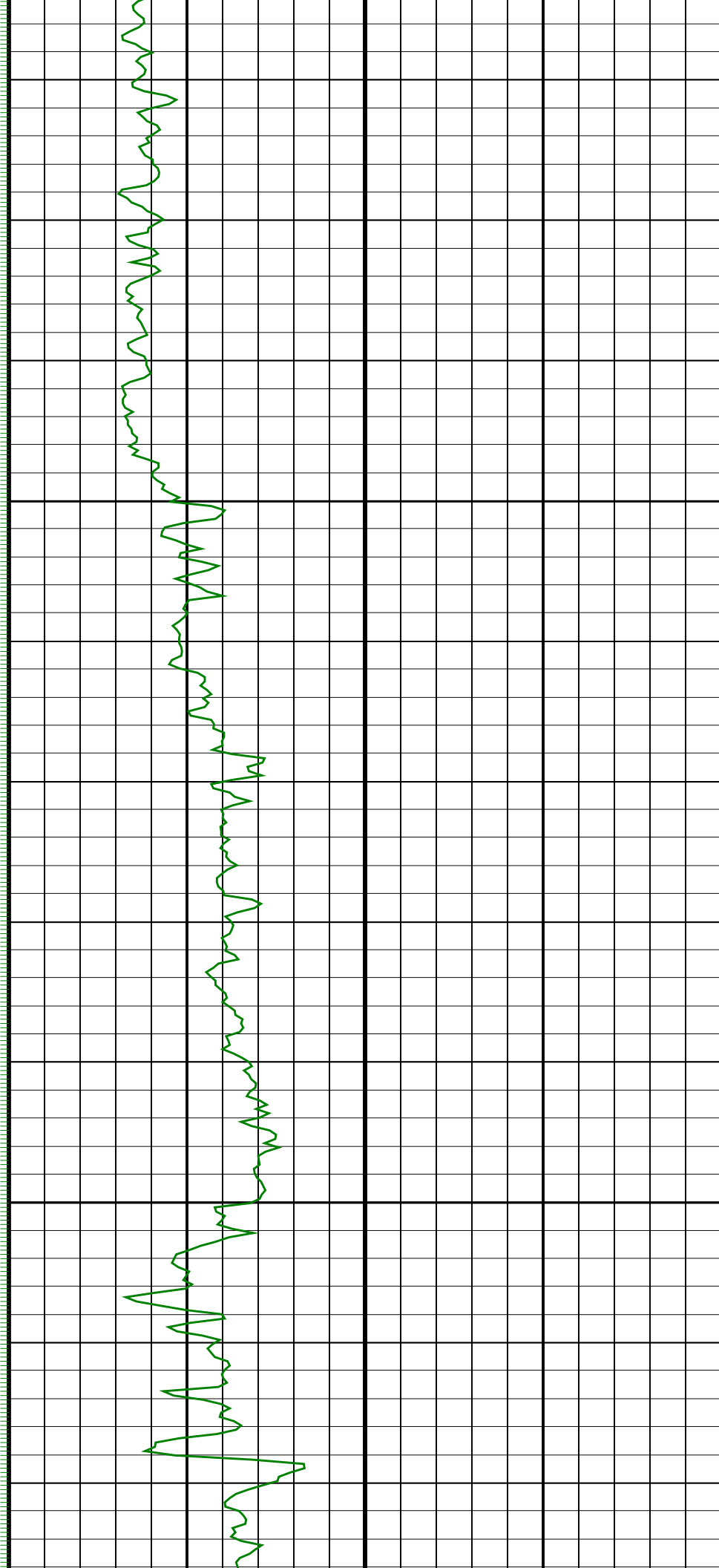


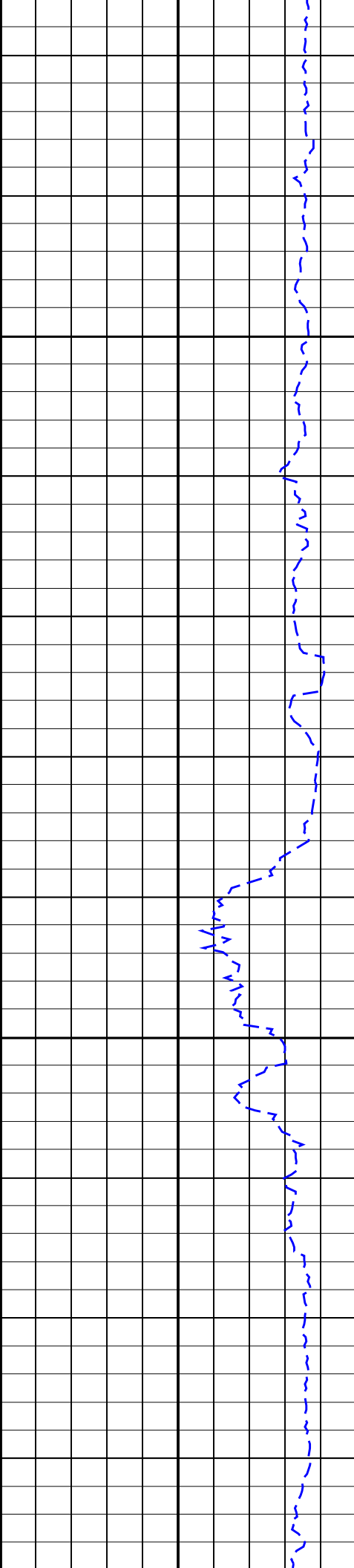




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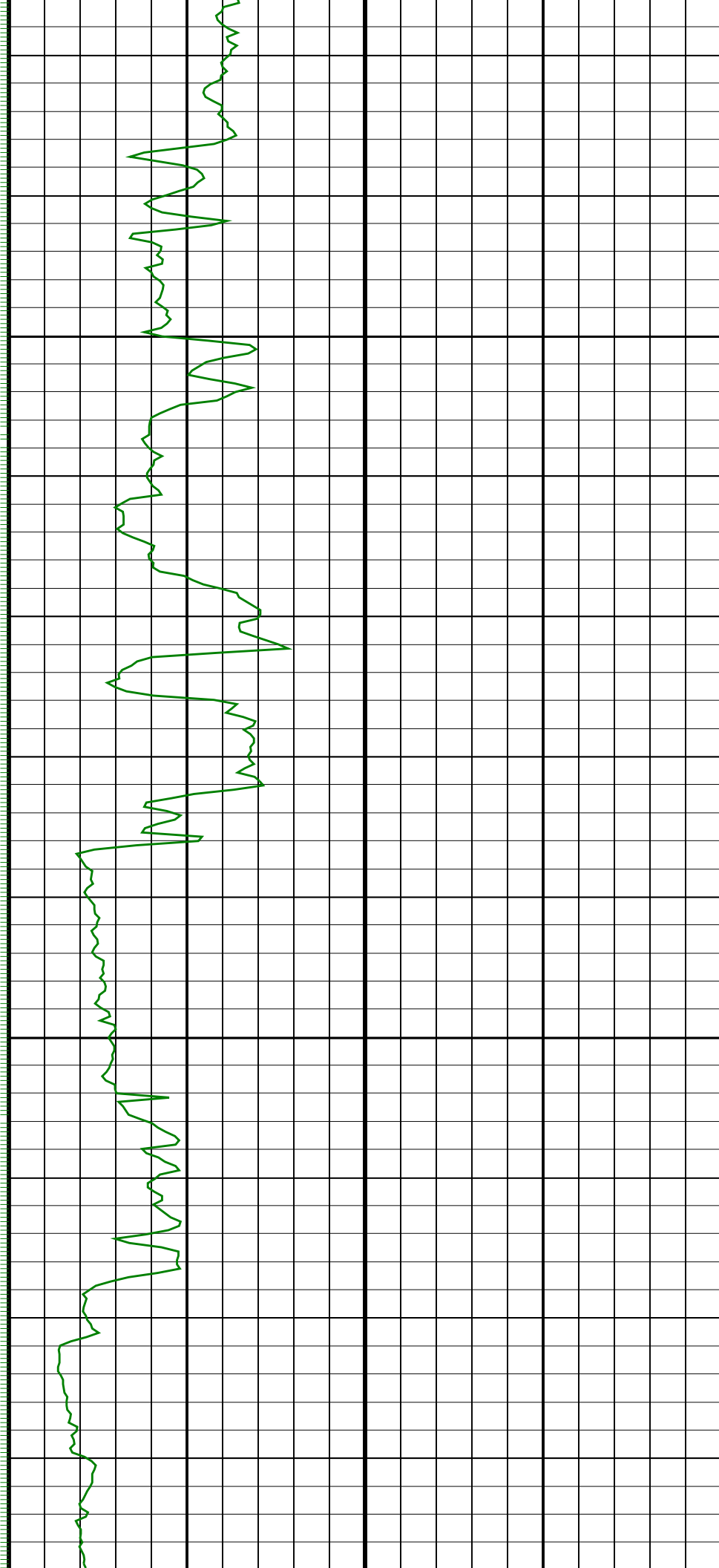
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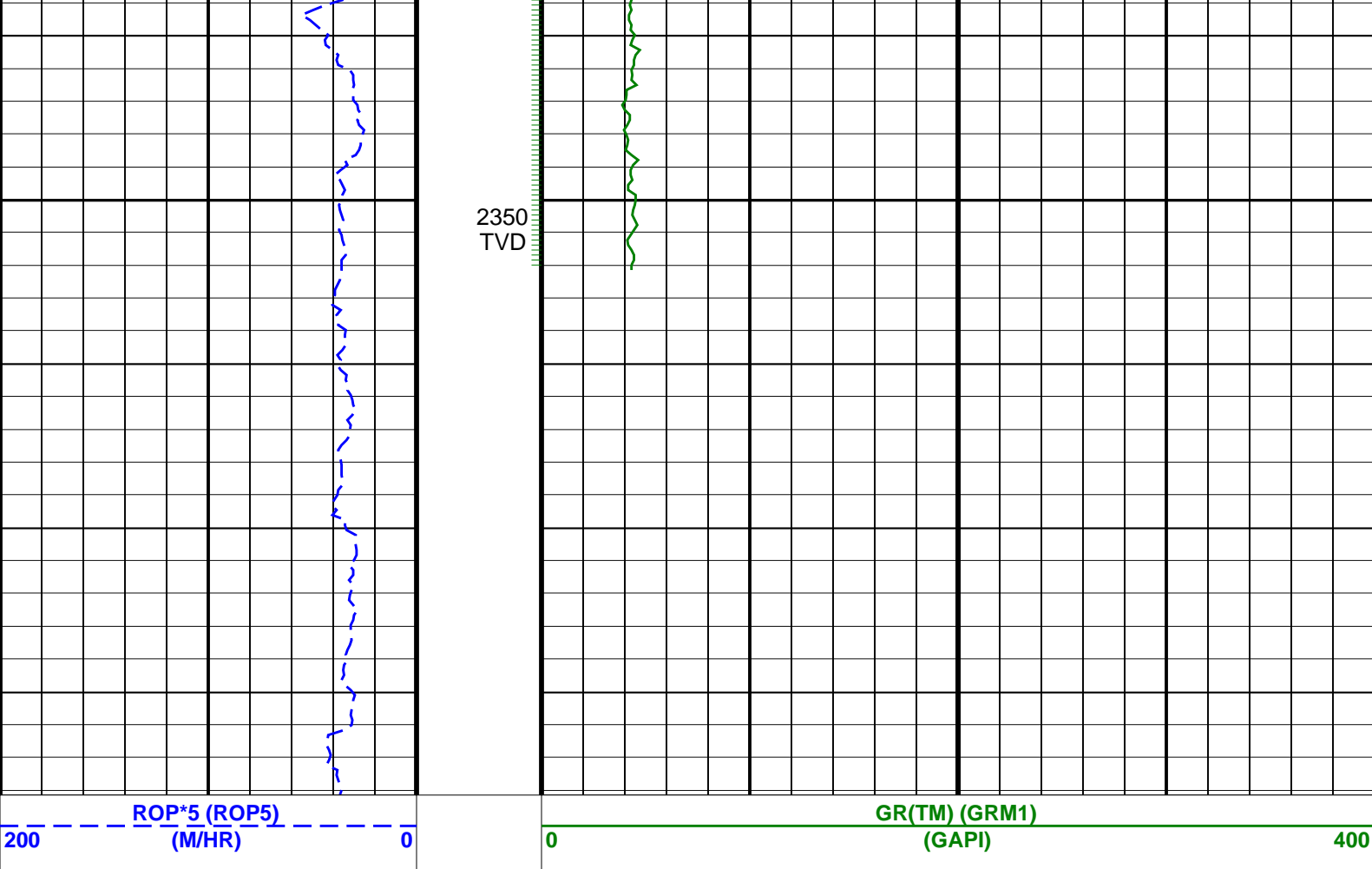




2300  
TVD

2325  
TVD





PIP SUMMARY

GR(TM) PIP

SCHLUMBERGER

Survey report

29-Apr-2006 17:34:18

Page 1 of 4

Client.....: ESSO Australia Pty. Ltd.  
Field.....: West Kingfish

Well.....: WKF W18A  
API number.....:  
Engineer.....: L. Johnston, R. Burns

Rig.....: ISDL 453  
State.....: Victoria

Spud date.....: 23-Apr-06  
Last survey date.....: 29-Apr-06  
Total accepted surveys...: 73  
MD of first survey.....: 650.00 m  
MD of last survey.....: 2710.00 m

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

----- Depth reference -----  
Permanent datum.....: Mean Sea Level  
Depth reference.....: Drill Floor  
GL above permanent.....: -77.10 m  
KB above permanent.....: Top Drive  
DF above permanent.....: 33.43 m

----- Vertical section origin-----  
Latitude (+N/S-).....: -2.90 m  
Departure (+E/W-).....: 16.93 m

----- Platform reference point-----  
Latitude (+N/S-).....: 5,727,453 m  
Departure (+E/W-).....: 597,265 m

Azimuth from Vsect Origin to target: 111.18 degrees

----- Geomagnetic data -----  
Magnetic model.....: BGM version 2005  
Magnetic date.....: 21-Apr-2006  
Magnetic field strength...: 1202.79 HCNT  
Magnetic dec (+E/W-).....: 13.21 degrees  
Magnetic dip.....: -69.08 degrees

----- MWD survey Reference Criteria -----  
Reference G.....: 1000.06 mGal  
Reference H.....: 1202.79 HCNT  
Reference Dip.....: -69.08 degrees  
Tolerance of G.....: (+/-) 2.50 mGal  
Tolerance of H.....: (+/-) 6.00 HCNT  
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----  
Magnetic dec (+E/W-).....: 13.21 degrees  
Grid convergence (+E/W-)...: -0.69 degrees  
Total az corr (+E/W-).....: 13.90 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

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/ 10m)	Srvy tool type	Tool Corr (deg)
1	650.00	27.15	38.90	0.00	624.82	38.49	94.55	95.97	134.72	45.43	0.00	TIP	None
2	677.29	25.84	48.83	27.29	649.26	43.15	103.32	104.36	146.85	45.29	1.69	MWD	None
3	705.79	27.20	58.34	28.50	674.77	49.97	110.83	114.59	159.41	45.96	1.56	MWD	None
4	734.66	27.59	67.73	28.87	700.41	58.81	116.83	126.39	172.12	47.25	1.50	MWD	None
5	763.55	28.48	75.57	28.89	725.92	69.27	121.08	139.26	184.54	48.99	1.31	MWD	None
6	792.17	28.76	81.91	28.62	751.05	80.83	123.75	152.69	196.54	50.98	1.07	MWD	None
7	821.38	29.17	88.53	29.21	776.61	93.53	124.92	166.77	208.37	53.16	1.11	MWD	None
8	850.14	29.30	96.36	28.76	801.72	106.81	124.32	180.77	219.40	55.48	1.33	MWD	None
9	878.90	29.76	104.87	28.76	826.75	120.71	121.71	194.67	229.59	57.99	1.47	MWD	None
10	907.77	30.16	113.67	28.87	851.78	135.09	116.96	208.25	238.84	60.68	1.53	MWD	None
11	936.66	30.99	121.86	28.89	876.66	149.65	110.11	221.22	247.11	63.54	1.47	MWD	None
12	965.20	31.13	122.65	28.54	901.11	164.10	102.26	233.67	255.06	66.37	0.15	MWD	None
13	993.85	31.07	122.35	28.65	925.64	178.62	94.30	246.15	263.60	69.04	0.06	MWD	None
14	1022.99	30.87	121.85	29.14	950.63	193.34	86.34	258.85	272.87	71.55	0.11	MWD	None
15	1051.47	30.81	122.33	28.48	975.08	207.67	78.58	271.22	282.37	73.84	0.09	MWD	None
16	1080.78	31.64	124.00	29.31	1000.15	222.54	70.27	283.94	292.50	76.10	0.41	MWD	None
17	1109.53	30.58	124.33	28.75	1024.76	237.01	61.92	296.23	302.63	78.19	0.37	MWD	None
18	1138.38	29.11	125.26	28.85	1049.78	250.96	53.73	308.02	312.67	80.10	0.53	MWD	None
19	1166.92	29.16	126.00	28.54	1074.71	264.42	45.64	319.31	322.56	81.87	0.13	MWD	None
20	1196.01	30.28	123.05	29.09	1099.98	278.45	37.47	331.19	333.31	83.54	0.63	MWD	None
21	1224.46	32.85	120.89	28.45	1124.22	293.08	29.60	343.83	345.10	85.08	0.99	MWD	None
22	1253.01	35.93	120.35	28.56	1147.78	308.99	21.39	357.71	358.35	86.58	1.08	MWD	None
23	1281.83	36.00	120.26	28.81	1171.10	325.69	12.85	372.32	372.54	88.02	0.03	MWD	None
24	1310.73	35.08	120.09	28.90	1194.62	342.29	4.40	386.84	386.87	89.35	0.32	MWD	None
25	1339.46	34.07	120.22	28.73	1218.27	358.39	-3.79	400.94	400.96	90.54	0.35	MWD	None
26	1368.30	32.82	120.02	28.84	1242.34	374.09	-11.76	414.69	414.85	91.62	0.44	MWD	None
27	1397.13	34.56	121.68	28.83	1266.32	389.85	-19.97	428.41	428.88	92.67	0.68	MWD	None
28	1425.68	34.08	122.48	28.55	1289.90	405.66	-28.51	442.05	442.97	93.69	0.23	MWD	None
29	1454.41	35.88	120.92	28.73	1313.44	421.85	-37.16	456.07	457.58	94.66	0.70	MWD	None
30	1483.17	35.52	120.82	28.76	1336.80	438.40	-45.77	470.47	472.69	95.56	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)	Total displ (m)	At Azim (deg)	DLS (deg/ 10m)	Srvy tool type	Tool Corr (deg)
31	1511.94	34.40	121.12	28.77	1360.38	454.64	-54.26	484.61	487.63	96.39	0.39	MWD	None
32	1540.48	33.96	121.23	28.54	1383.99	470.43	-62.56	498.33	502.24	97.16	0.16	MWD	None
33	1568.16	33.89	121.31	27.68	1406.95	485.64	-70.58	511.53	516.38	97.86	0.03	MWD	None
34	1597.84	34.00	121.74	29.68	1431.58	501.94	-79.24	525.66	531.60	98.57	0.09	MWD	None
35	1626.44	34.06	122.94	28.60	1455.28	517.65	-87.80	539.18	546.28	99.25	0.24	MWD	None
36	1655.47	33.35	122.81	29.03	1479.43	533.42	-96.55	552.71	561.08	99.91	0.25	MWD	None
37	1684.29	32.57	122.88	28.82	1503.61	548.78	-105.05	565.88	575.55	100.52	0.27	MWD	None
38	1712.75	34.62	121.14	28.46	1527.32	564.24	-113.39	579.24	590.23	101.08	0.80	MWD	None
39	1741.58	34.03	121.10	28.83	1551.12	580.26	-121.79	593.15	605.53	101.60	0.20	MWD	None
40	1770.37	33.37	121.00	28.79	1575.08	595.99	-130.03	606.84	620.61	102.09	0.23	MWD	None
41	1799.19	32.91	121.02	28.82	1599.21	611.52	-138.15	620.34	635.54	102.55	0.16	MWD	None
42	1828.02	32.25	121.30	28.83	1623.50	626.81	-146.18	633.63	650.27	102.99	0.23	MWD	None
43	1856.41	34.79	121.14	28.39	1647.17	642.24	-154.31	647.03	665.18	103.41	0.90	MWD	None
44	1885.36	34.24	121.38	28.95	1671.02	658.39	-162.82	661.05	680.81	103.84	0.20	MWD	None
45	1914.08	33.79	121.20	28.72	1694.83	674.21	-171.16	674.78	696.15	104.23	0.16	MWD	None
46	1942.95	33.31	121.21	28.87	1718.89	689.92	-179.43	688.43	711.43	104.61	0.17	MWD	None
47	1971.76	32.72	121.72	28.81	1743.05	705.37	-187.62	701.82	726.47	104.97	0.23	MWD	None
48	2000.39	32.20	121.75	28.63	1767.20	720.47	-195.71	714.89	741.19	105.31	0.18	MWD	None
49	2029.14	34.24	120.51	28.75	1791.25	735.99	-203.84	728.37	756.36	105.63	0.75	MWD	None
50	2057.81	33.64	120.70	28.67	1815.04	751.78	-211.99	742.15	771.83	105.94	0.21	MWD	None
51	2086.42	32.72	120.69	28.61	1838.98	767.22	-219.99	755.61	786.99	106.23	0.32	MWD	None
52	2115.23	32.16	120.83	28.81	1863.30	782.46	-227.89	768.89	801.95	106.51	0.20	MWD	None
53	2143.94	34.19	120.20	28.71	1887.33	797.96	-235.86	782.43	817.21	106.78	0.72	MWD	None
54	2172.45	33.69	119.96	28.51	1910.98	813.68	-243.84	796.20	832.70	107.03	0.18	MWD	None
55	2201.40	33.24	119.91	28.95	1935.13	829.46	-251.81	810.04	848.27	107.27	0.16	MWD	None
56	2230.08	32.77	119.88	28.68	1959.18	844.90	-259.59	823.58	863.52	107.50	0.16	MWD	None
57	2258.89	33.48	120.39	28.81	1983.31	860.46	-267.50	837.20	878.89	107.72	0.26	MWD	None
58	2287.54	35.00	121.92	28.65	2006.99	876.33	-275.84	850.99	894.58	107.96	0.61	MWD	None
59	2316.43	34.51	121.50	28.89	2030.73	892.52	-284.50	865.00	910.58	108.21	0.19	MWD	None
60	2345.03	33.90	121.65	28.60	2054.38	908.34	-292.92	878.69	926.23	108.44	0.22	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)	Total displ (m)	At Azim (deg)	DLS (deg/ 10m)	Srvy tool type	Tool Corr (deg)
61	2373.72	33.24	121.13	28.69	2078.29	923.95	-301.18	892.24	941.70	108.65	0.25	MWD	None
62	2402.58	32.75	121.01	28.86	2102.49	939.43	-309.29	905.70	957.05	108.85	0.17	MWD	None
63	2431.16	32.06	120.84	28.58	2126.62	954.53	-317.16	918.84	972.04	109.04	0.24	MWD	None
64	2459.55	31.85	120.84	28.39	2150.71	969.34	-324.87	931.74	986.75	109.22	0.07	MWD	None
65	2488.57	30.77	120.37	29.02	2175.50	984.21	-332.54	944.72	1001.54	109.39	0.38	MWD	None
66	2517.22	29.85	120.29	28.65	2200.24	998.49	-339.85	957.20	1015.74	109.55	0.32	MWD	None
67	2546.10	29.24	120.43	28.88	2225.36	1012.55	-347.04	969.48	1029.73	109.70	0.21	MWD	None
68	2574.89	28.84	120.81	28.79	2250.53	1026.33	-354.16	981.51	1043.45	109.84	0.15	MWD	None
69	2603.37	28.65	120.13	28.48	2275.50	1039.85	-361.11	993.32	1056.92	109.98	0.13	MWD	None
70	2631.41	28.65	119.73	28.04	2300.11	1053.14	-367.81	1004.97	1070.16	110.10	0.07	MWD	None

71	2660.35	28.43	119.53	28.94	2325.53	1066.81	-374.65	1016.99	1083.80	110.22	0.08	MWD	None
72	2689.80	28.64	119.18	29.45	2351.41	1080.74	-381.55	1029.25	1097.69	110.34	0.09	MWD	None
73	2710.00	28.78	118.95	20.20	2369.12	1090.35	-386.26	1037.73	1107.28	110.42	0.09	Projection to TD	

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

Schlumberger

Well:

**WKF W18A**

Field:

**West Kingfish**

Rig:

**ISDL 453**

State:

**Victoria**

Gamma Ray Service

1:200 True Vertical Depth

Real Time Log