

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

API serial no.	Y = 5774406.79 m X = 624347.95 m	Longitude E148°25'10.377"	Latitude S38°10'10.832"
----------------	-------------------------------------	------------------------------	----------------------------

Bore hole record

from	to	Size	Density	from	to
560.0 m	3283.0 m	13 3/8 in.	54.5 lb/ft	Surface	550.0 m

[illegible]

Mud record				
Borehole deviation record				

from	to	Min	Max	from	to
560.0 m	3283.0 m	24.07°	60.76°	560.0 m	3283.0 m

Document					
	Software record				

OLU-FB-924	IDEAL Wis	ID9_1C_01		
DES-AB-9663	SPM	HSPM9_2C_08		
	LWD	N/A		
	MWD	V7.0 C00		

OTHER SERVICES FOR RUN3 Directional Drilling Directional Surveys	
REMARKS: RUN NUMBER 3 8-1/2 in. hole was drilled from 2475.0m to 2630.0m 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 low penetration rate.	

OTHER SERVICES FOR RUN2

Directional Drilling

Directional Surveys

REMARKS: RUN NUMBER 2

8-1/2 in. hole was drilled from 1413.0m to 2475.0m 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 to change saver sub on Top Drive and change bit.

OTHER SERVICES FOR RUN1
Directional Drilling
Directional Surveys

REMARKS: RUN NUMBER 1
8-1/2 in. hole was drilled from 560.0m to 1413.0m 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 to investigate Tools. Gamma Ray data from 1393.0m to 1395.0m MD was affected due to the presence of noise.

Thank You for Choosing Schlumberger

Thank You for Choosing Schlumberger

Thank You for Choosing Schlumberger

EQUIPMENT DESCRIPTION

RUN1

RUN2

RUN3

DOWNHOLE EQUIPMENT

DOWNHOLE EQUIPMENT

DOWNHOLE EQUIPMENT

6-3/4 in. PowerPulse* 23.81
MDC: V875-AE
MEC: 1533-BB
MDI: 1565-CA
MGR: 565-AA
DHS: 7.0C00

D&I 19.45
GR 18.81



6-5/8 in. NM Pony 15.31
S/N: ASS15700



8-3/8 in. NM Roller Reamer 13.75
S/N: GU2299



6-7/16 in. NM Pony 11.64
S/N: 9612058



7 in. PowerPak* Motor 9.19
A700GT 7:8
S/N: N7311
1.5 deg. Bent Housing
8-3/8 in. Motor Sleeve



6-3/4 in. PowerPulse* 23.67
MDC: 401-AB
MEC: 1542-BB
MDI: 1559-BC
MGR: 521-AA
DHS: 7.0C00

D&I 19.43
GR 18.78



6-5/8 in. NM Pony 15.31
S/N: ASS15700



8-3/8 in. NM Roller Reamer 13.75
S/N: GU2299



6-7/16 in. NM Pony 11.65
S/N: 9612058



7 in. PowerPak* Motor 9.19
A700GT 7:8
S/N: N7268
1.0 deg. Bent Housing
8-3/8 in. Motor Sleeve



6-3/4 in. PowerPulse* 23.67
MDC: 401-AB
MEC: 1542-BB
MDI: 1559-BC
MGR: 521-AA
DHS: 7.0C00

D&I 19.43
GR 18.78



6-5/8 in. NM Pony 15.31
S/N: ASS15700



6-7/16 in. NM Pony 13.75
S/N: 9612058

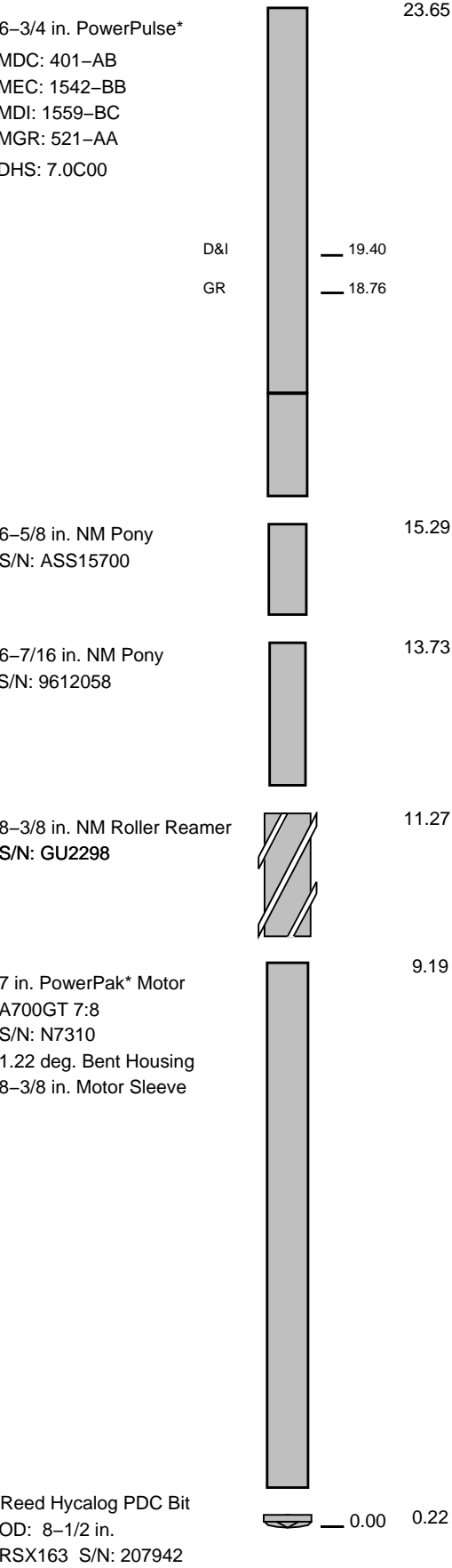


8-3/8 in. NM Roller Reamer 11.29
S/N: GU2299



7 in. PowerPak* Motor 9.19
A700GT 7:8
S/N: N7268
1.22 deg. Bent Housing
8-3/8 in. Motor Sleeve





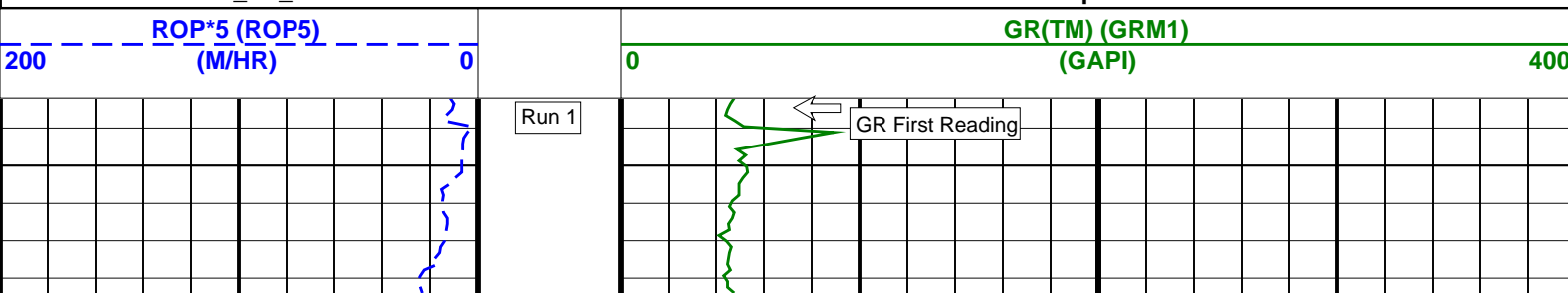
Maximum string diameter 8.50 in.
All lengths in Meters

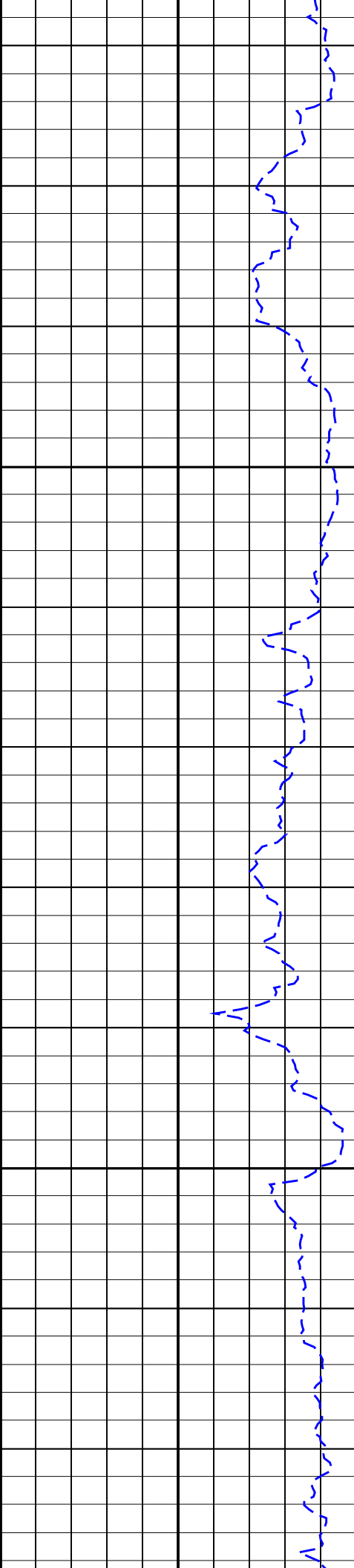
Bit Run Summary

Run number		1	2	3	4					
Bit size	in.	8.5	8.5	8.5	8.5					
Bit start depth	m	560.0	1413.0	2475.0	2630.0					
Bit end depth	m	1413.0	2475.0	2630.0	3283.0					
Top interval logged	m	560.0	1394.2	2456.2	2610.6					
Bottom interval logged	m	1394.2	2456.2	2610.6	3264.2					
Begin log: time		08:50	14:03	01:21	02:04					
Begin log: date		25-Nov-04	28-Nov-04	03-Dec-04	05-Dec-04					
End log: time		00:00	18:33	21:30	12:17					
End log: date		28-Nov-04	01-Dec-04	03-Dec-04	07-Dec-04					
Mud data										
Depth	m	1411.0	2475.0	2360.0	3283.0					
Type		KCI/PHPA/Gly.	KCI/PHPA/Gly.	KCI/PHPA/Gly.	KCI/PHPA/Gly.					
Mud weight	ppg	9.9	9.9	9.9	10.0					
Solids	%	6.7	7.6	7.6	7.7					
Chlorides	mg/L	36,000	43,000	43,000	43,000					
Rm	OHMM@°C	N/A	N/A	N/A	N/A					
Rmf	OHMM@°C	N/A	N/A	N/A	N/A					
Rmc	OHMM@°C	N/A	N/A	N/A	N/A					
Potassium	%	3.8	4.2	4.2	4.1					
Environmental data										
GR										
Mud weight	ppg	9.9	9.9	9.9	10.0					
Bit size	in.	8.5	8.5	8.5	8.5					
Resistivity										
Neutron porosity										
Hole Size										
Mud weight										
Temperature										
Mud salinity										
Formation salinity										
Recording rate 1	SEC	4.36	4.36	4.36	4.36					
Recording rate 2	SEC	N/A	N/A	N/A	N/A					
Filtering GR		3 pt	3 pt	3 pt	3 pt					
Filtering density										
Filtering Neutron										
Company representative		G. Campbell	B. Steel	T.Bassett						
Anadrill personnel		K. Handley	R. Borjas	A. DeCastro	D.Hastie	C. Cocks	T. Auger			

TNA A15A RT 1:200TVD

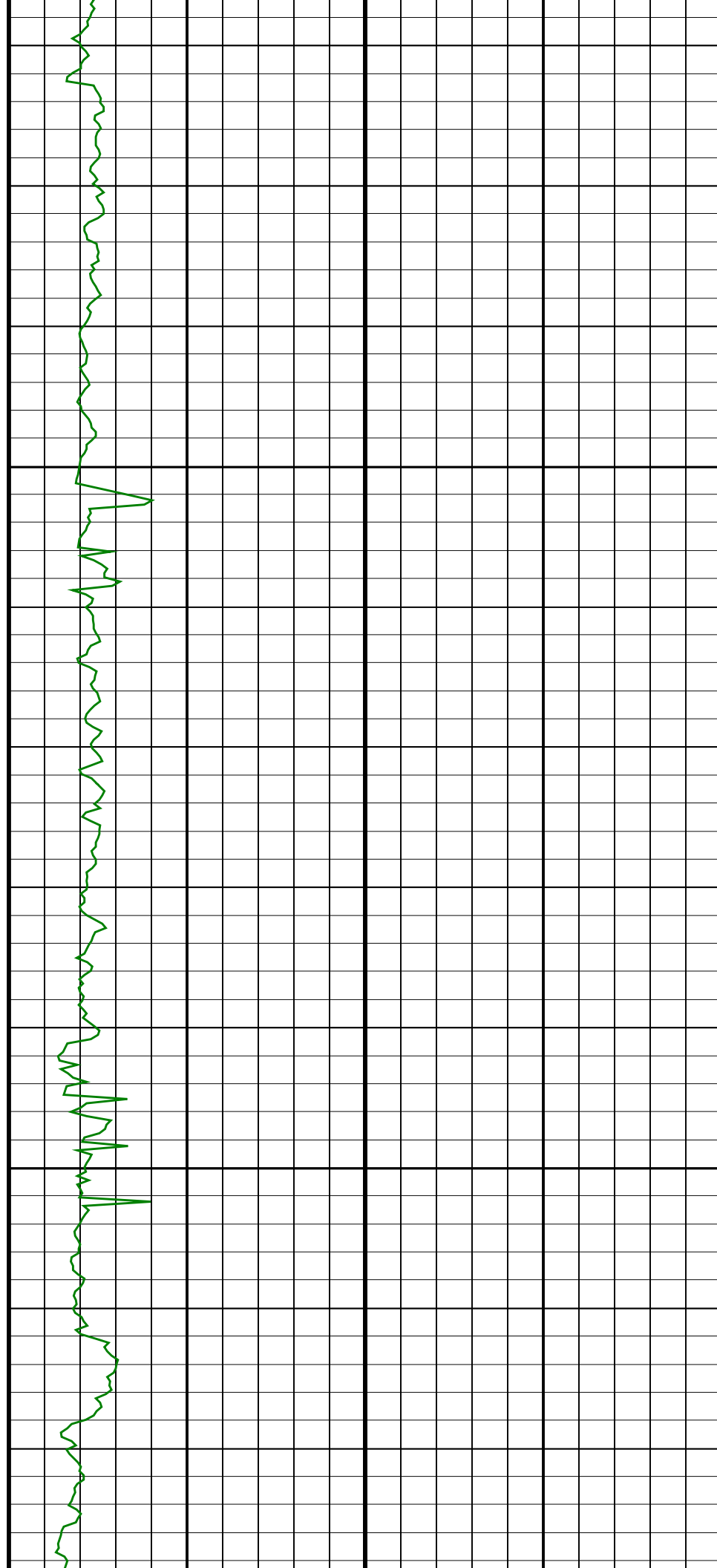
IDEAL Version: ID9_1C_01 <TVD> Vertical Scale: 1:200 Graphics File Created: 09-Dec-2004 10:04

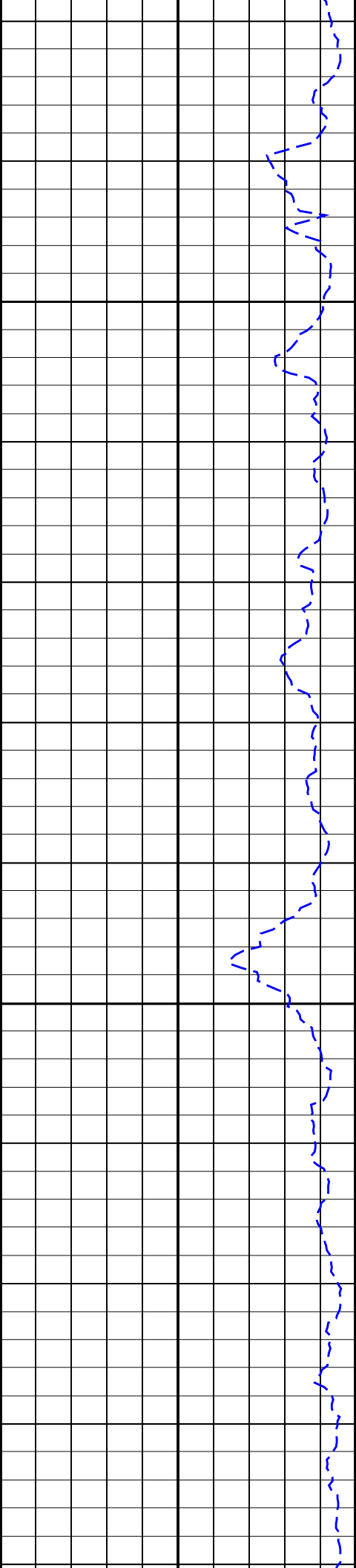




575
TVD

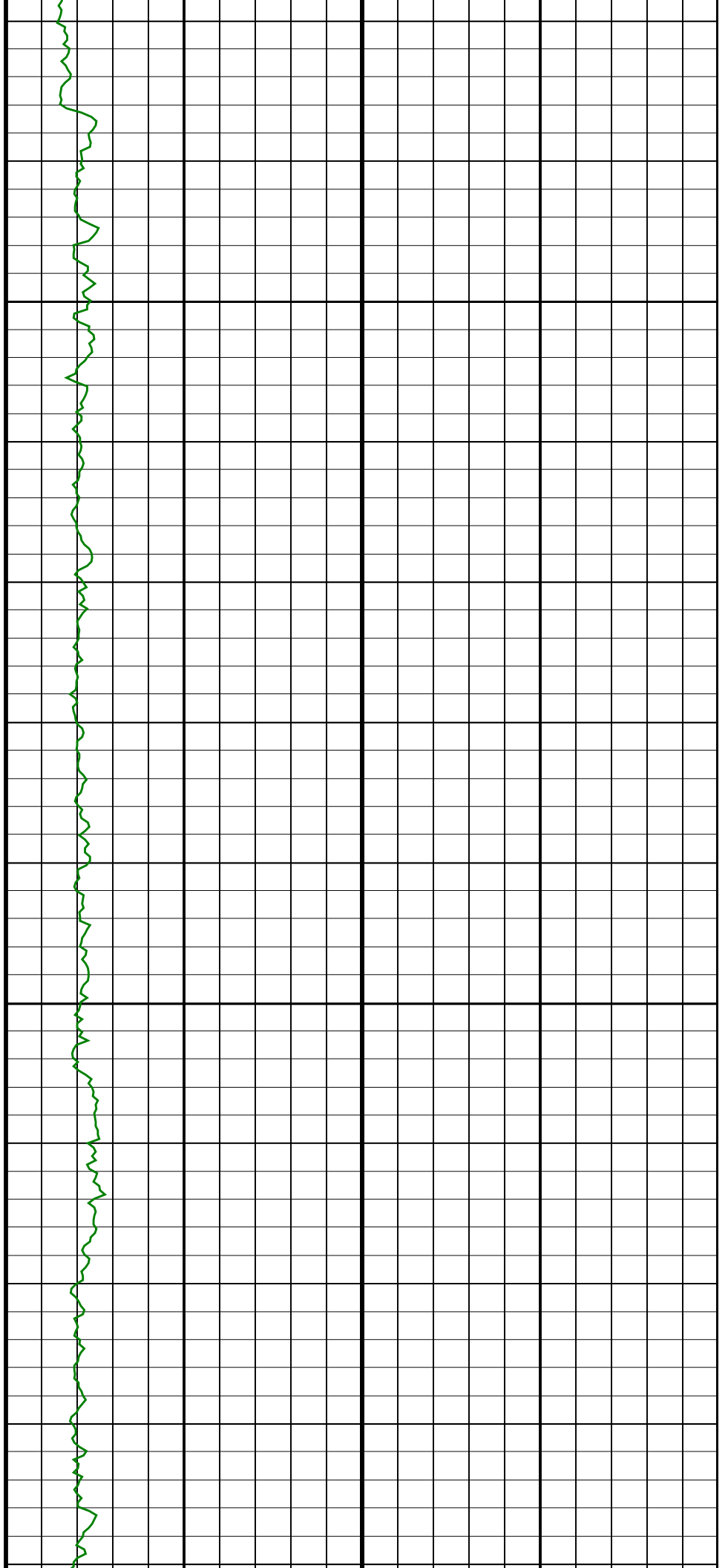
600
TVD

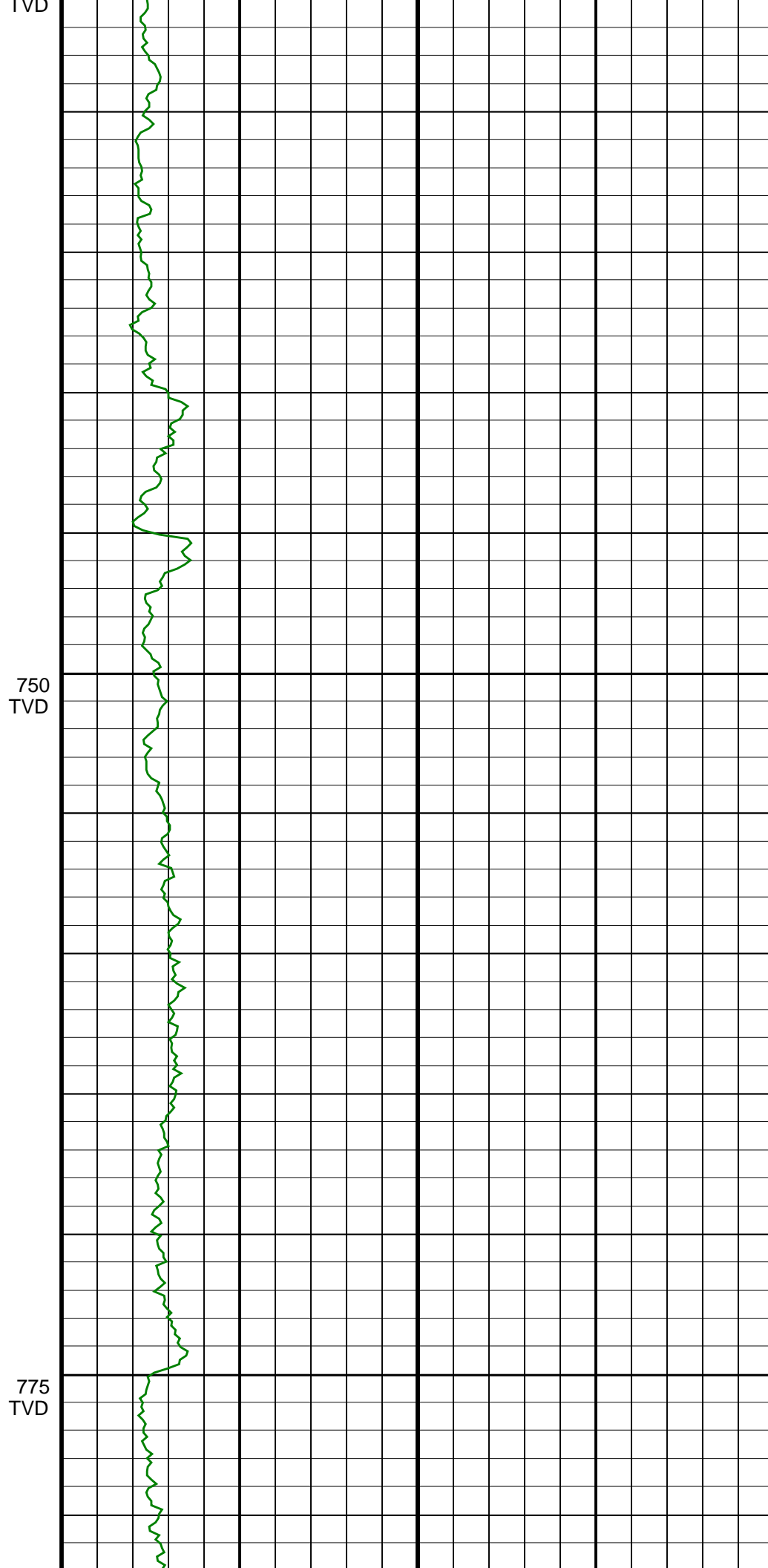
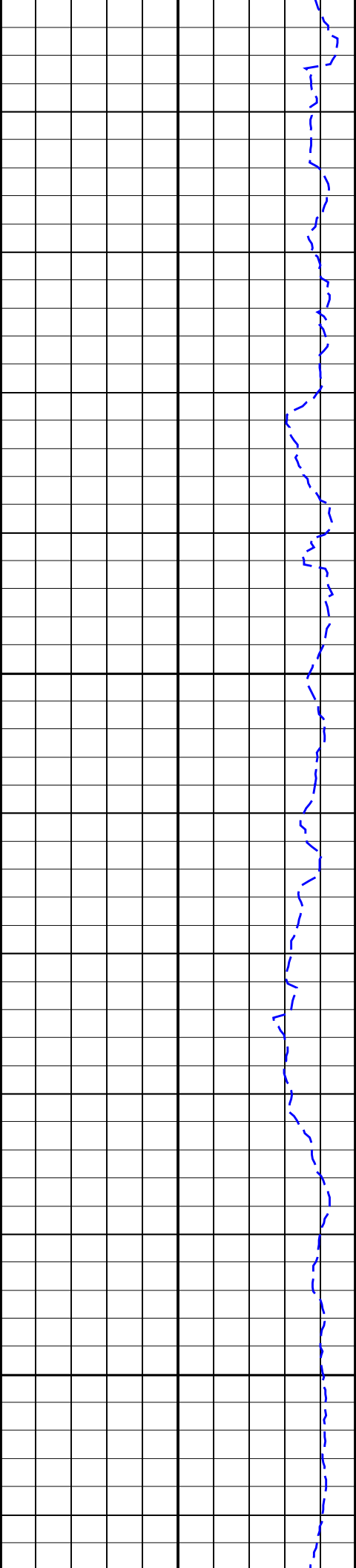


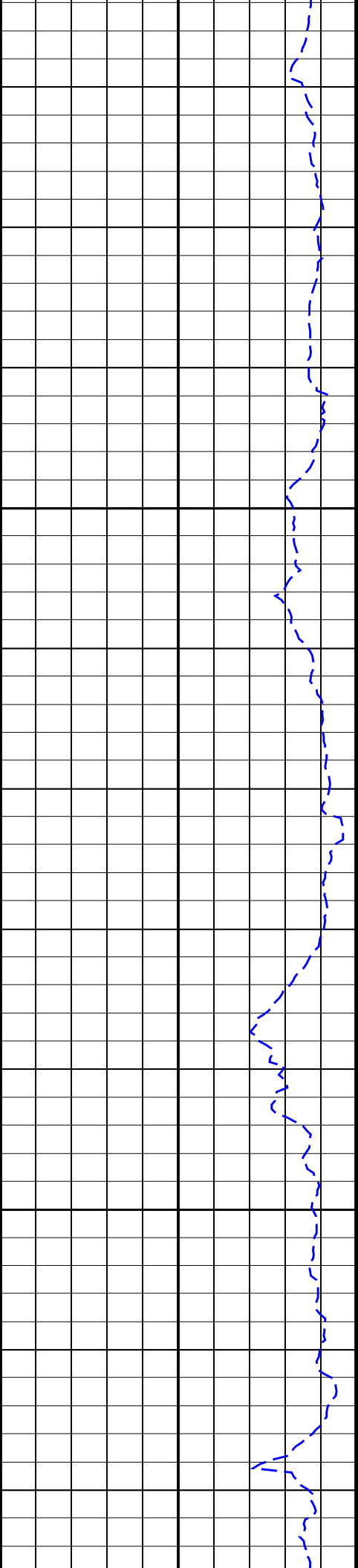


625
TVD

650
TVD

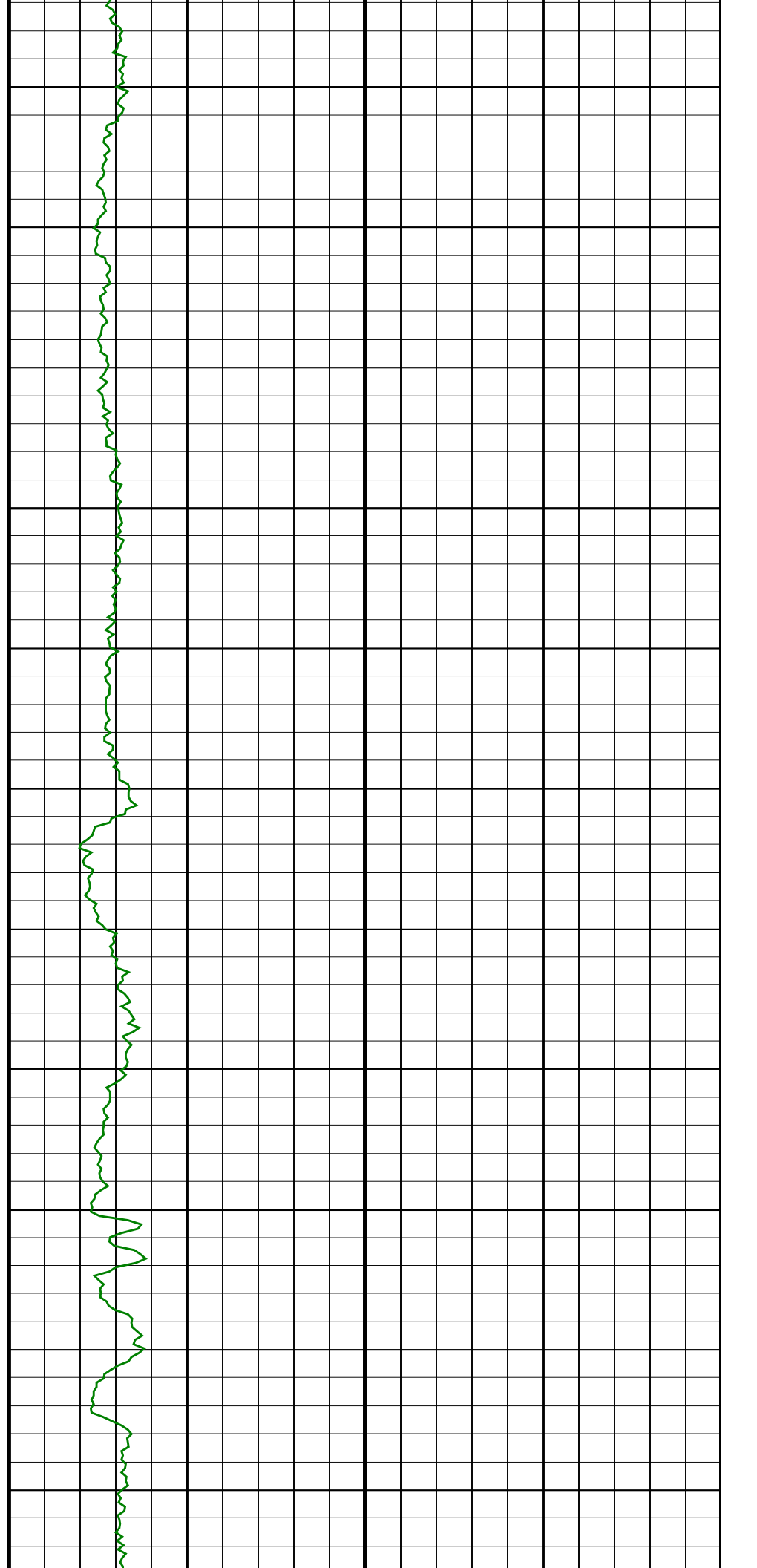


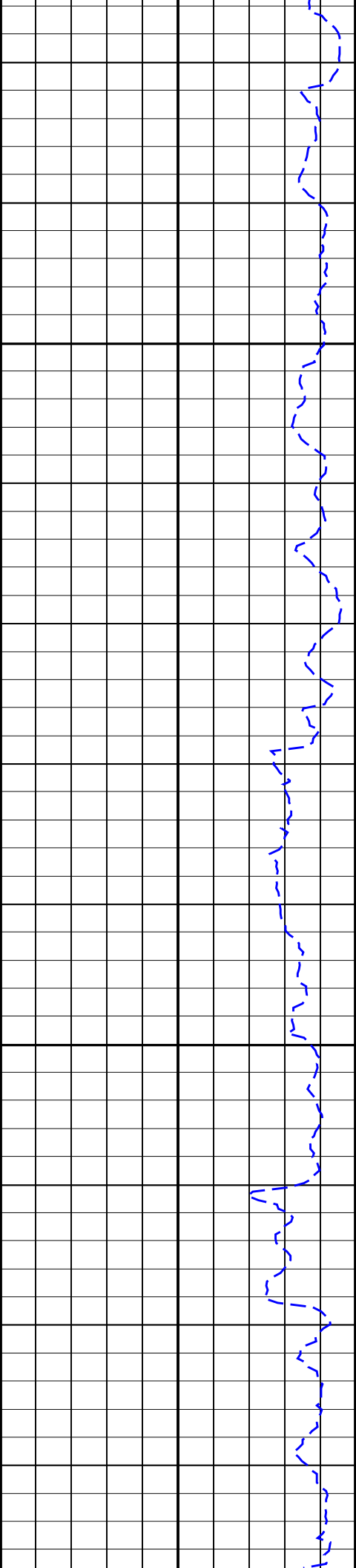




800
TVD

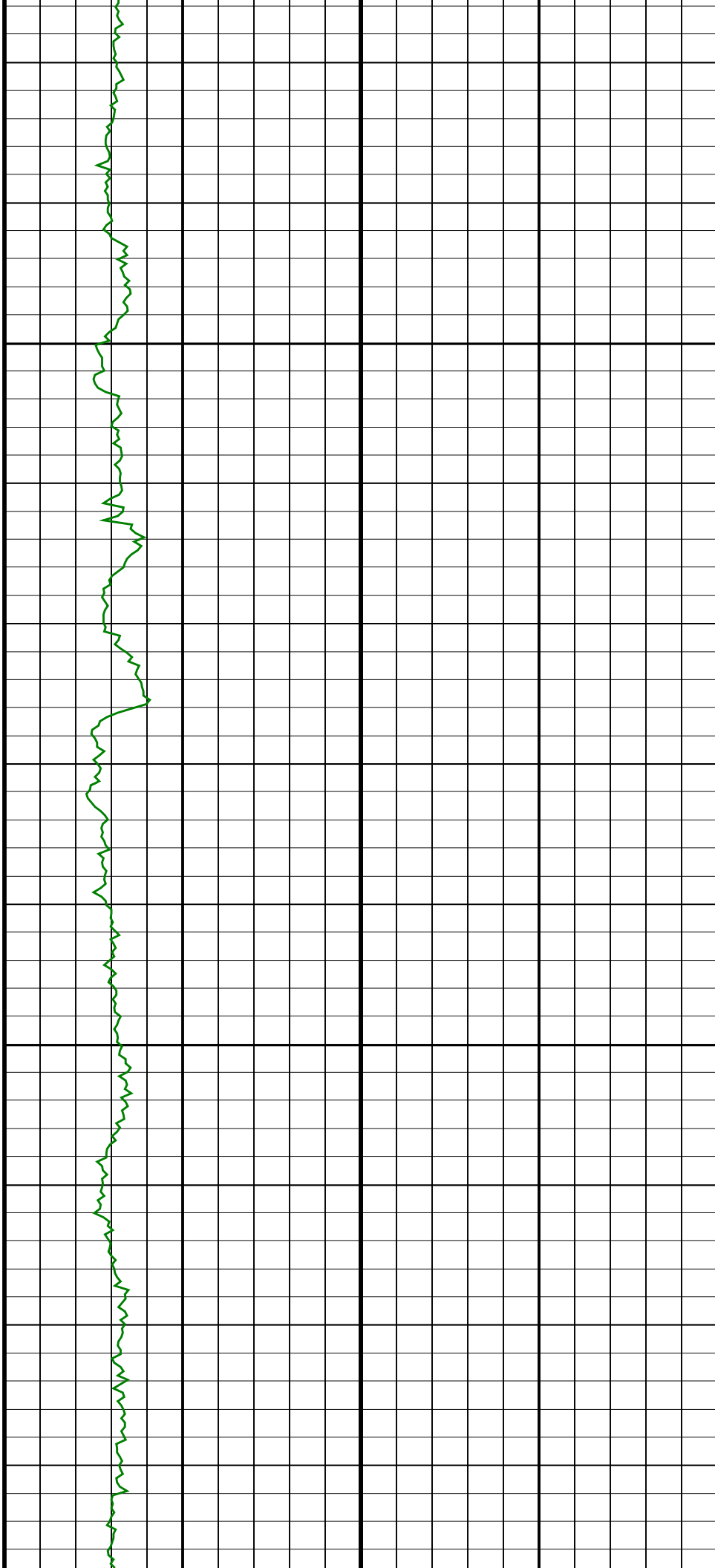
825
TVD

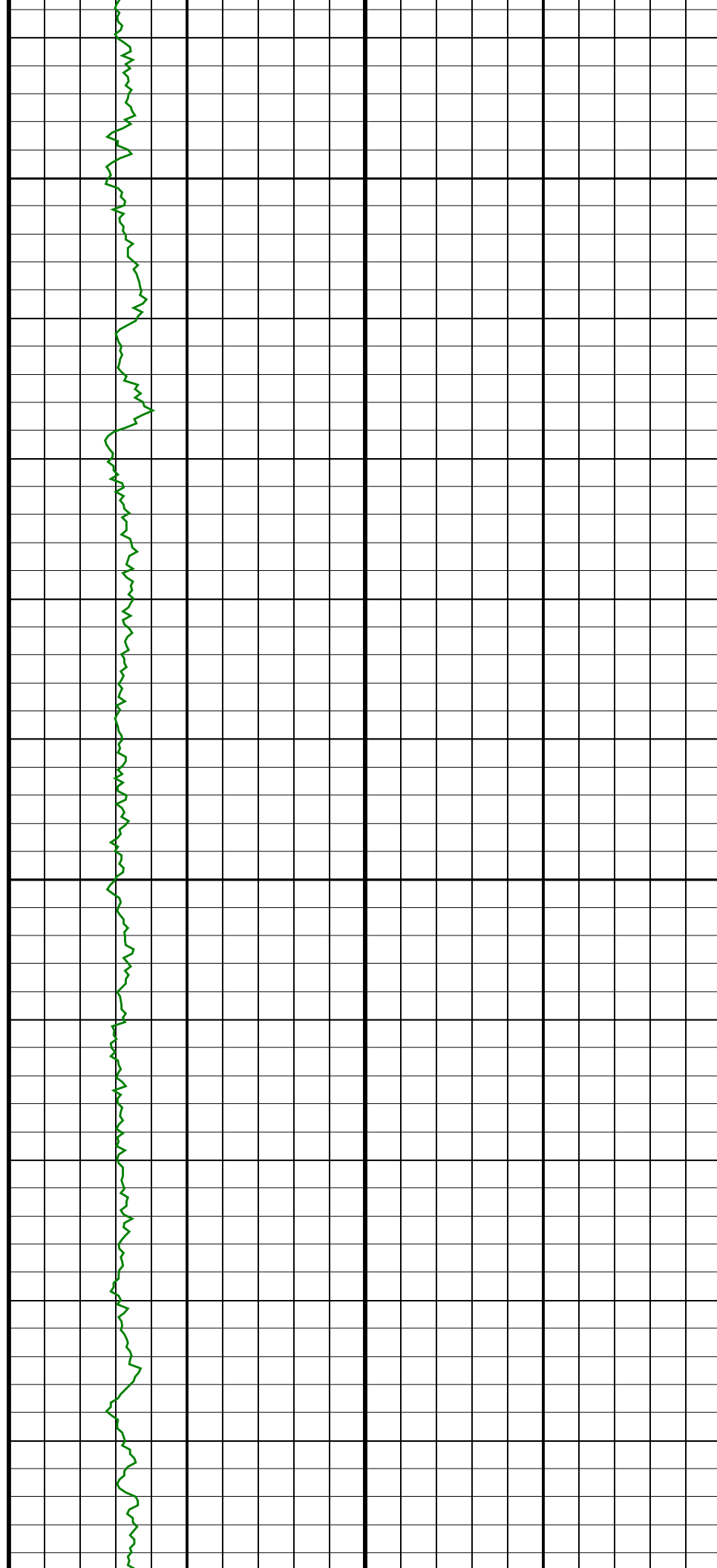
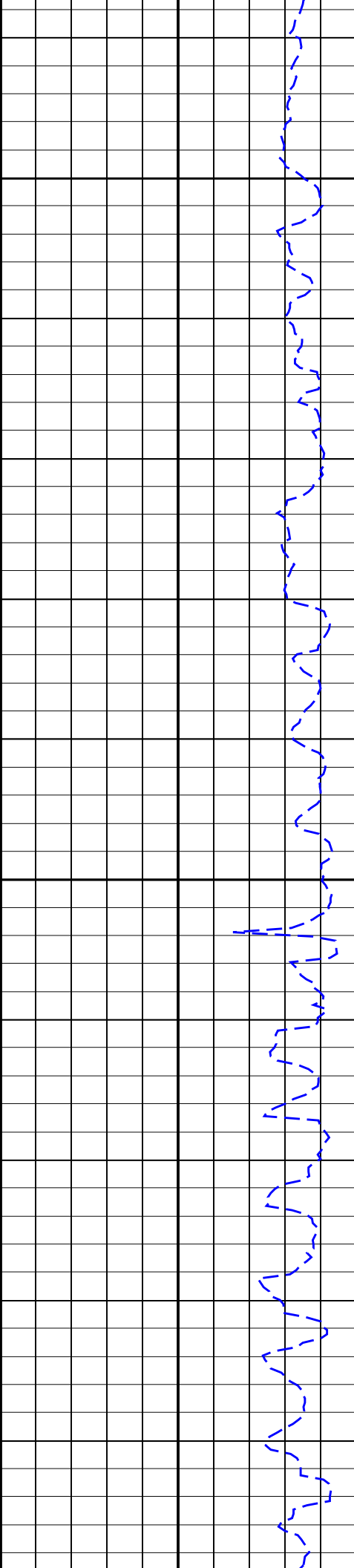


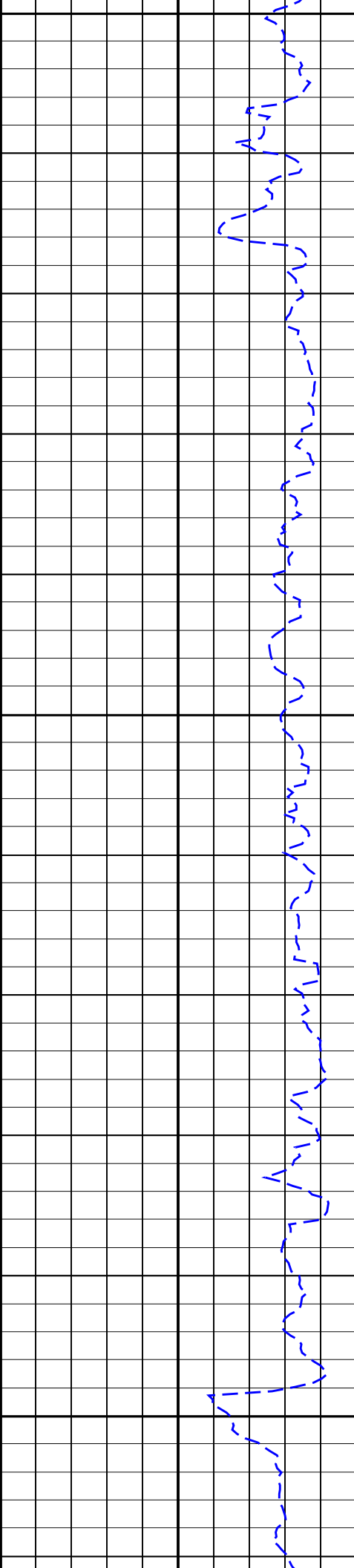


850
TVD

875
TVD



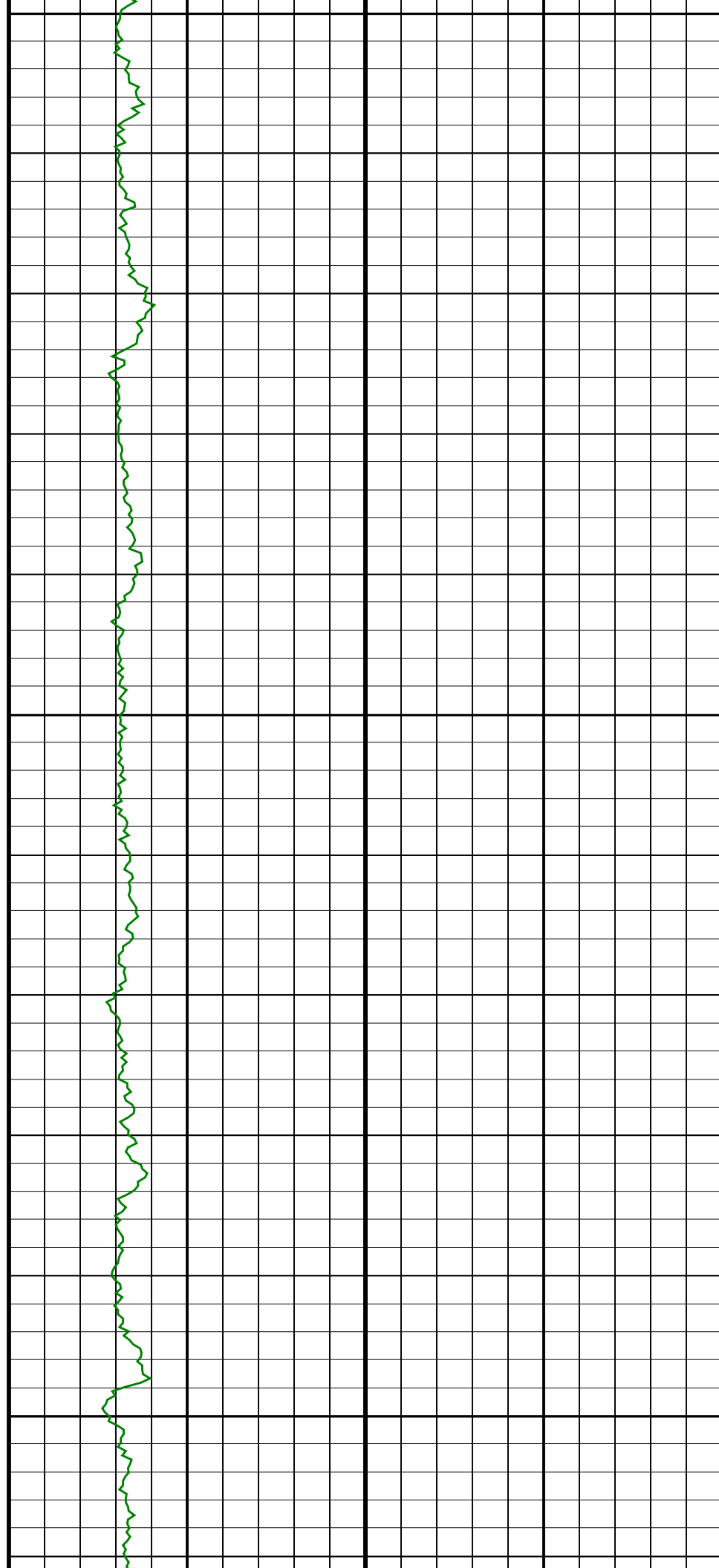


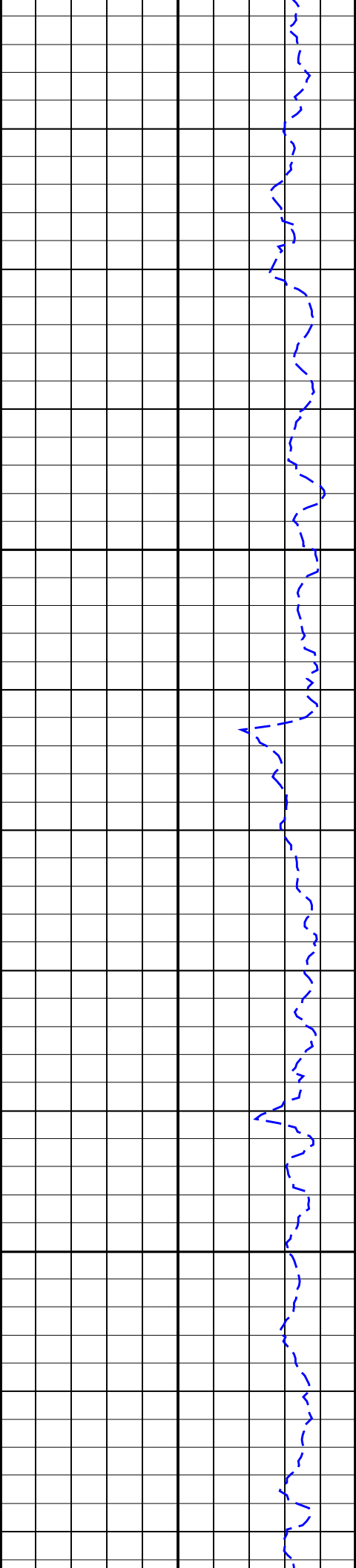


950
TVD

975
TVD

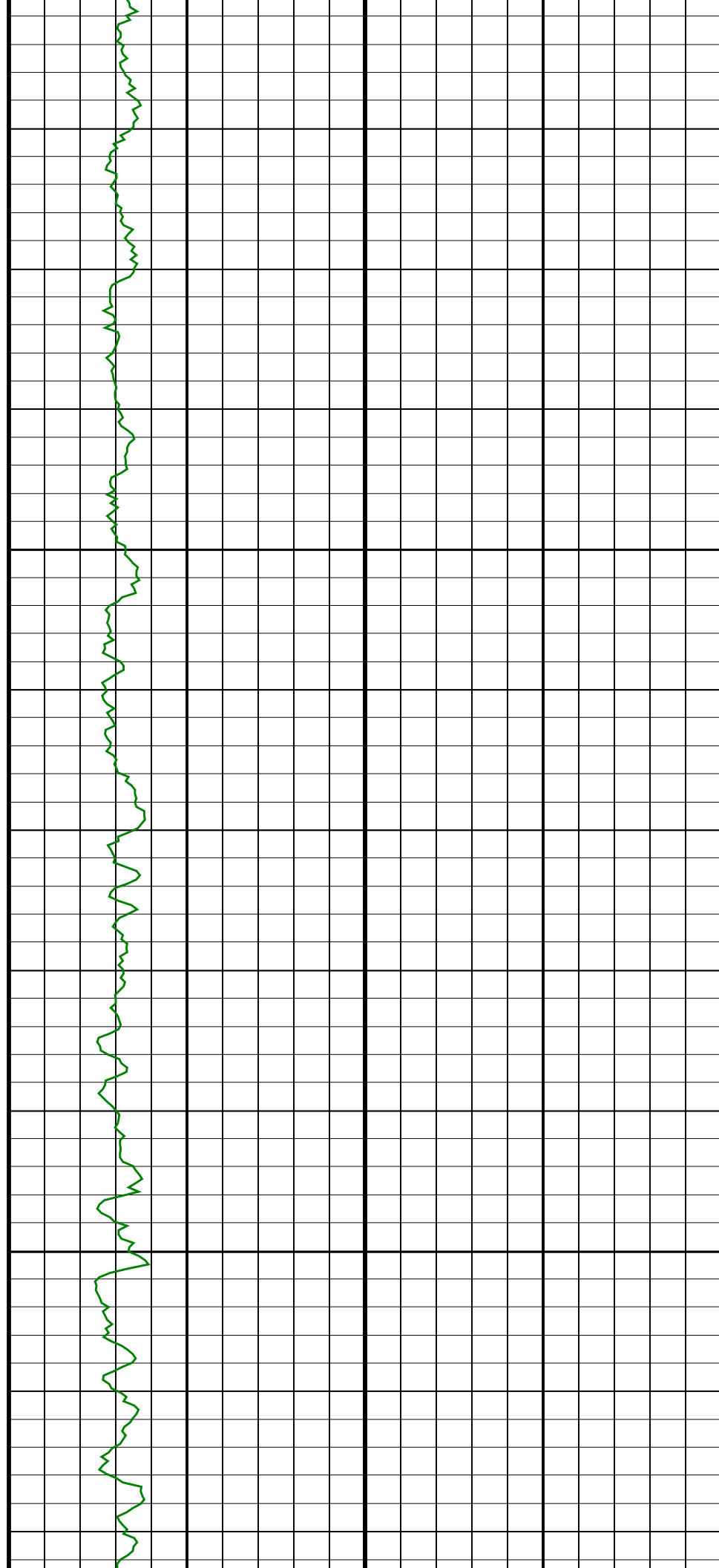
1000
TVD

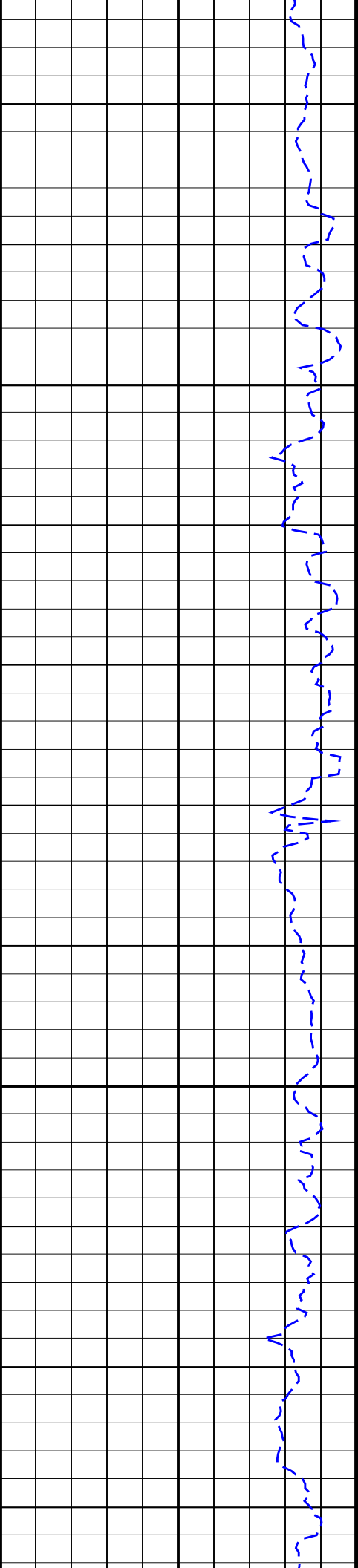




1025
TVD

1050
TVD

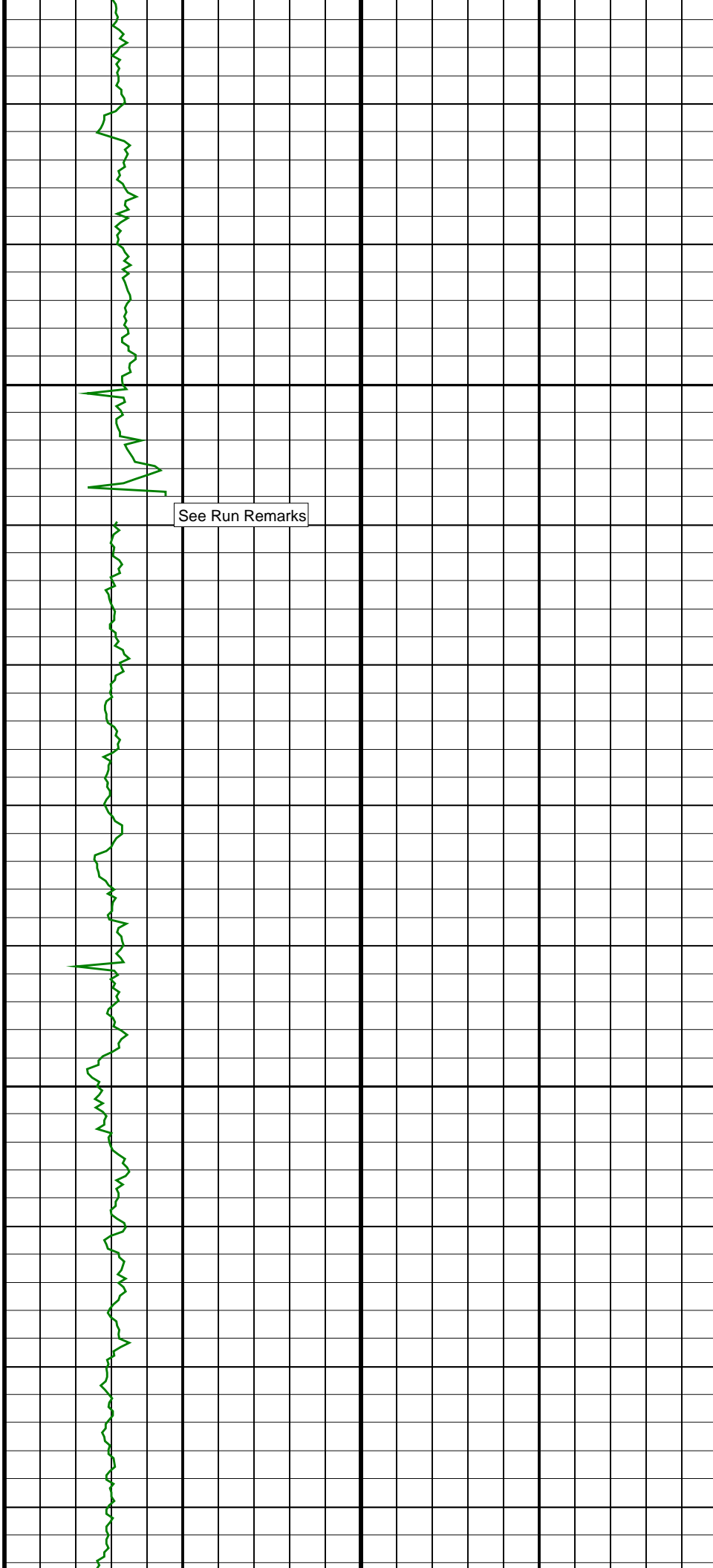




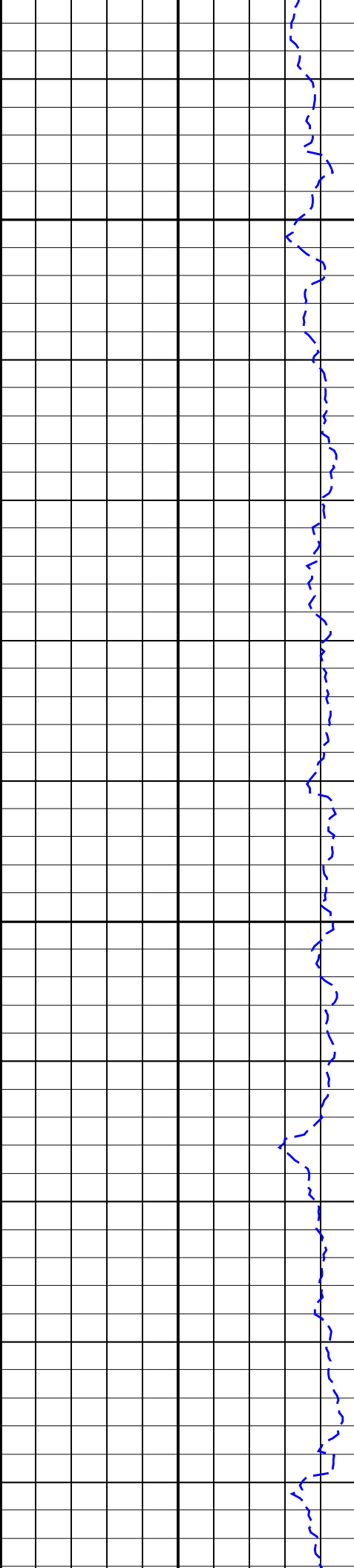
1075
TVD

Run 2

1100
TVD

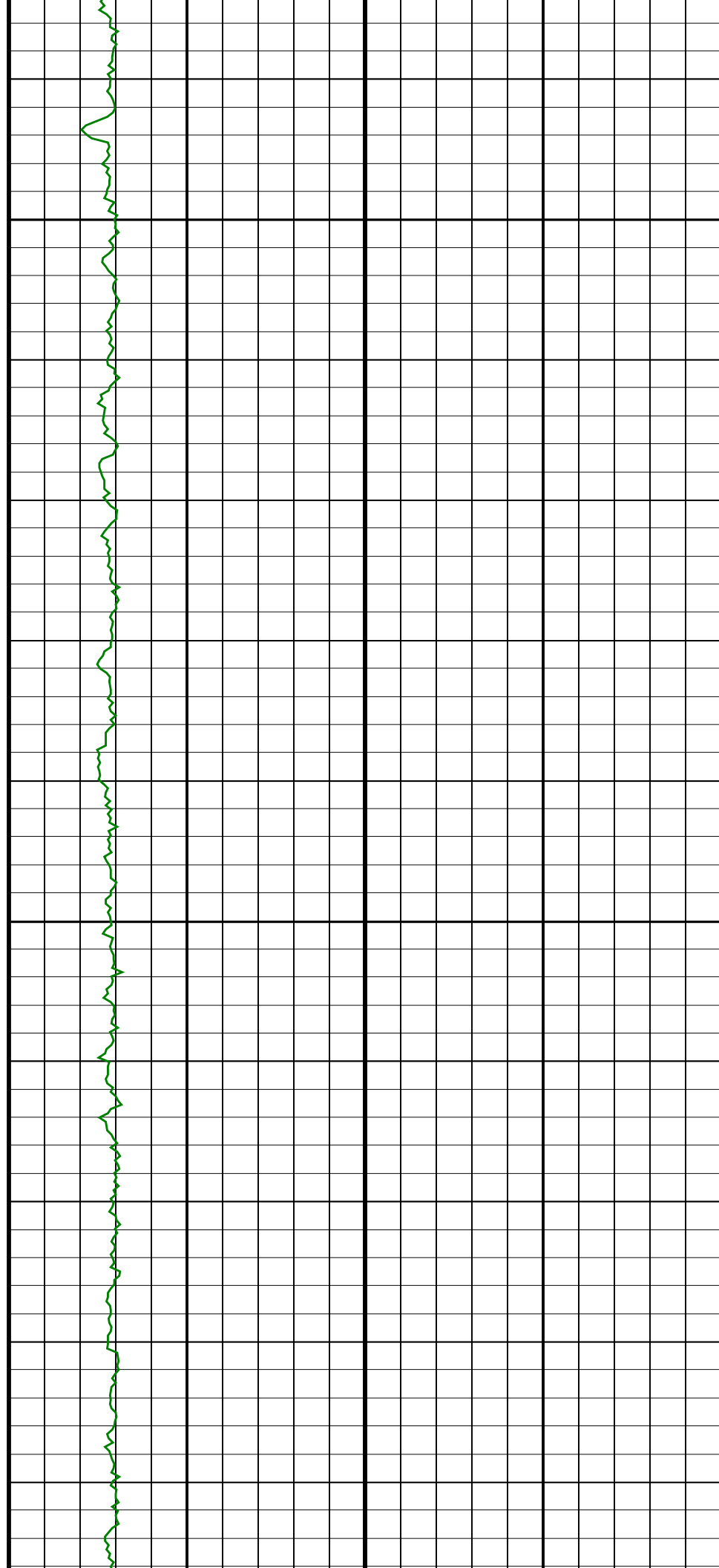


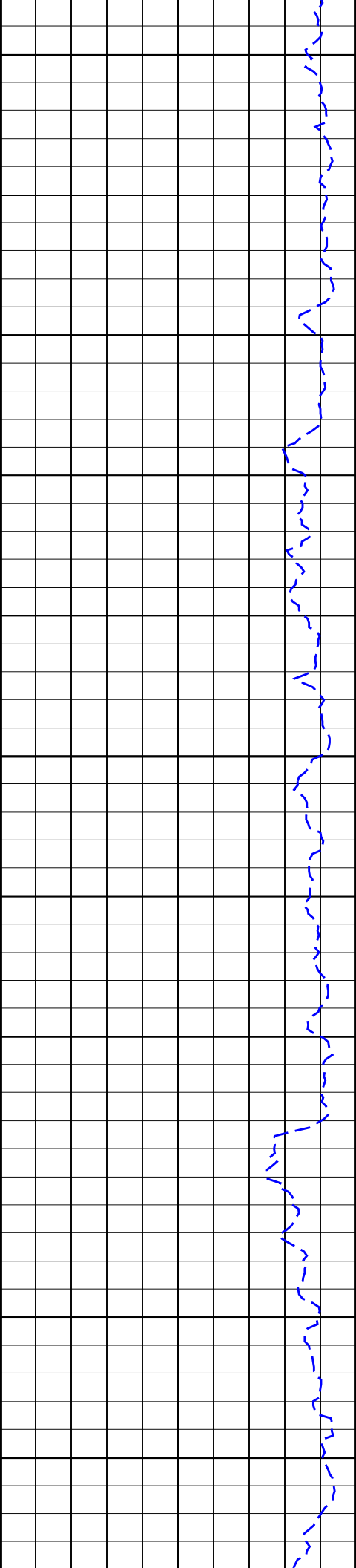
See Run Remarks



1125
TVD

1150
TVD

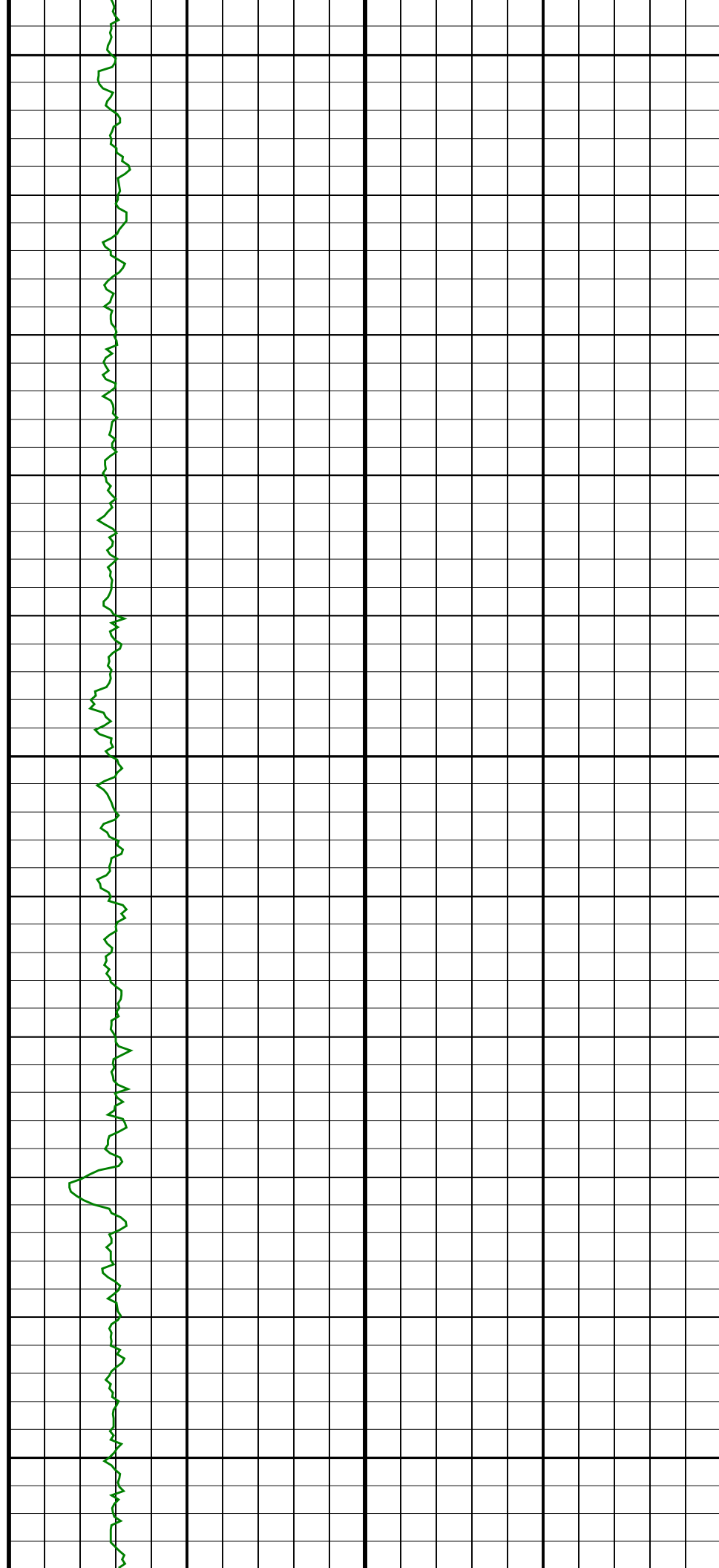


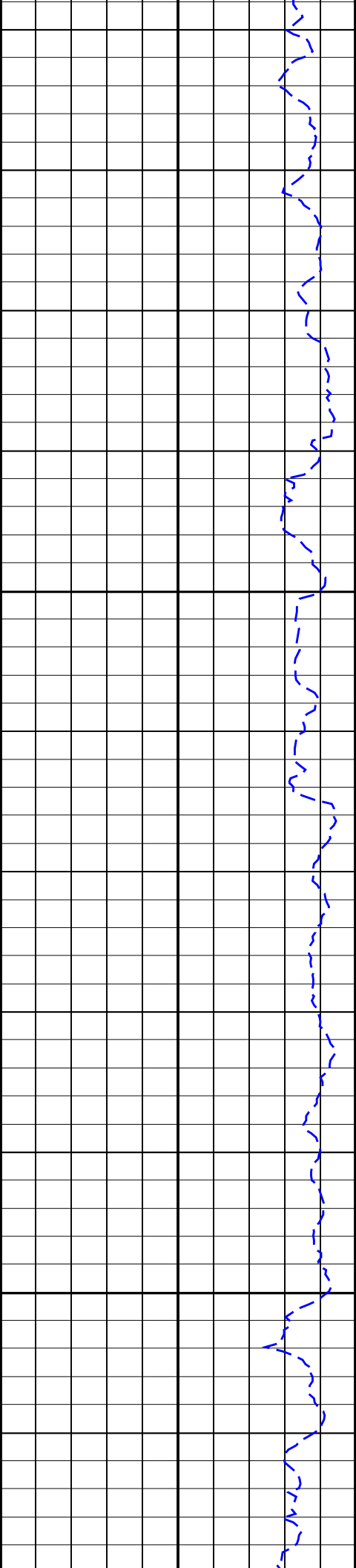


1175
TVD

1200
TVD

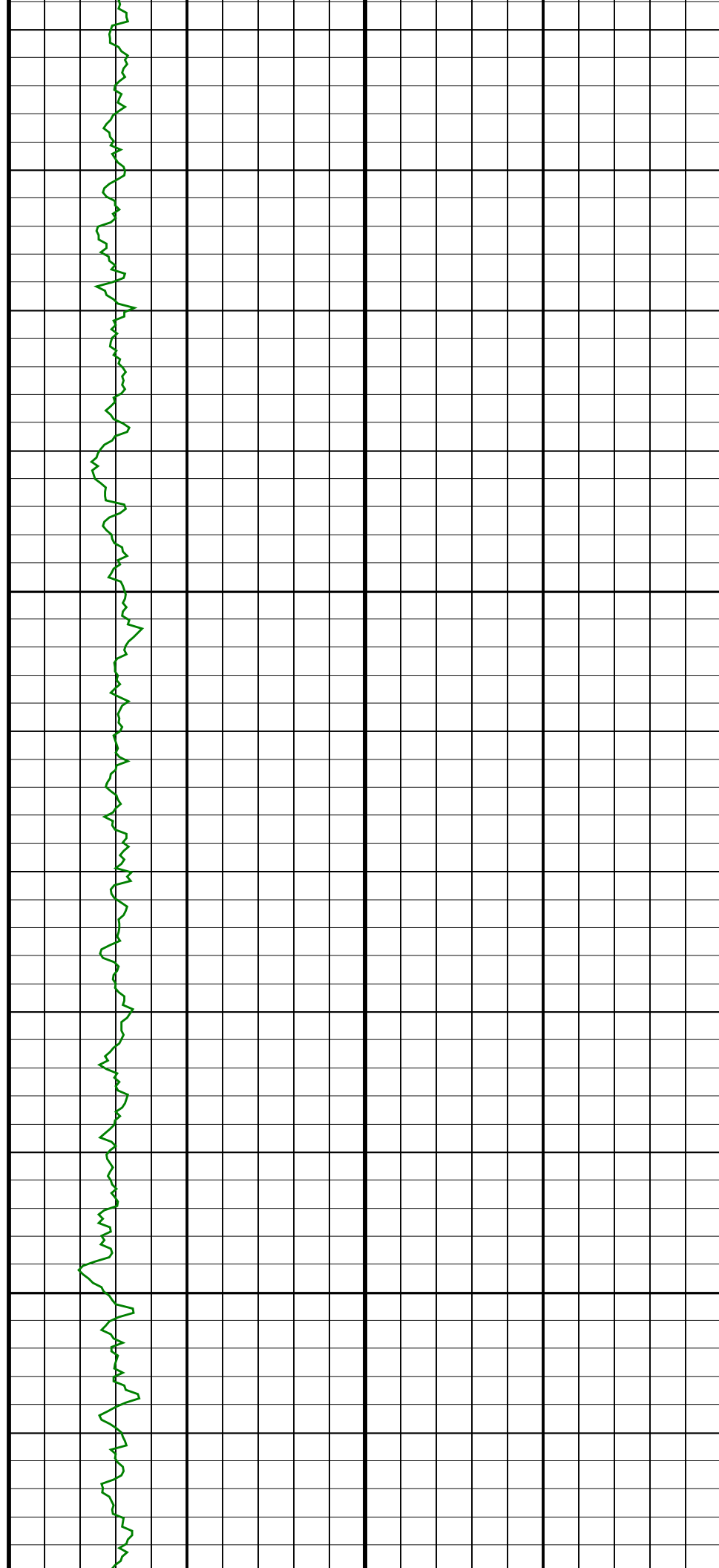
1225
TVD

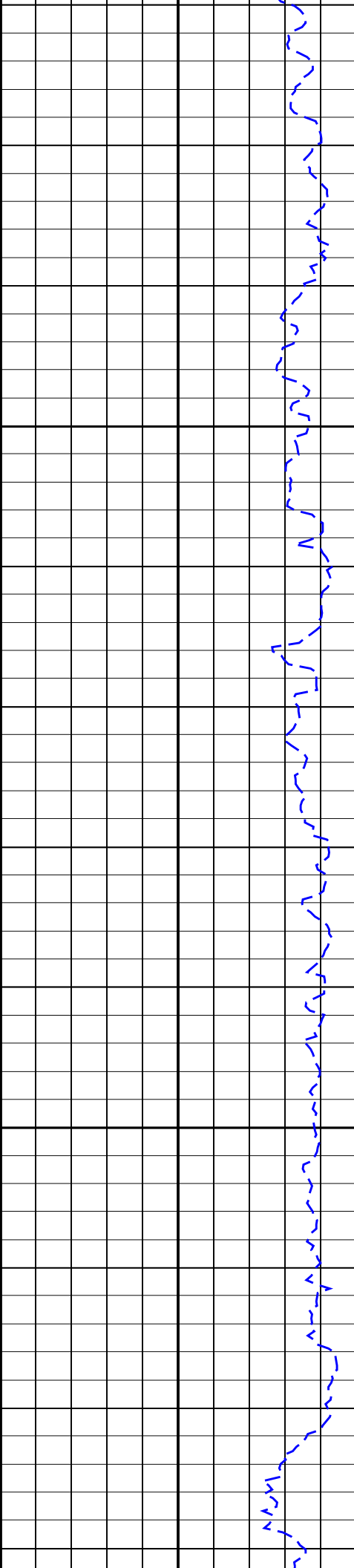




1250
TVD

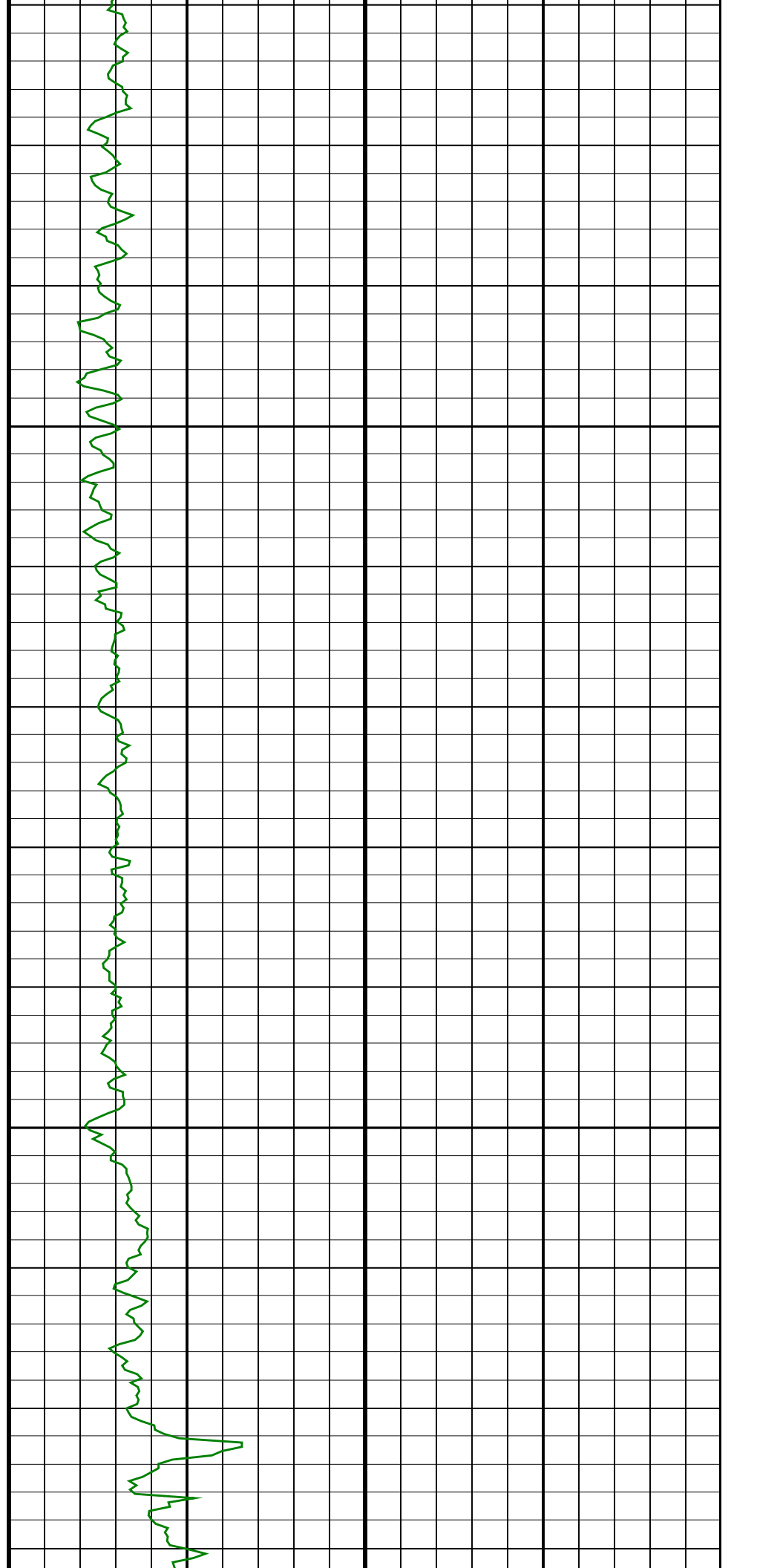
1275
TVD

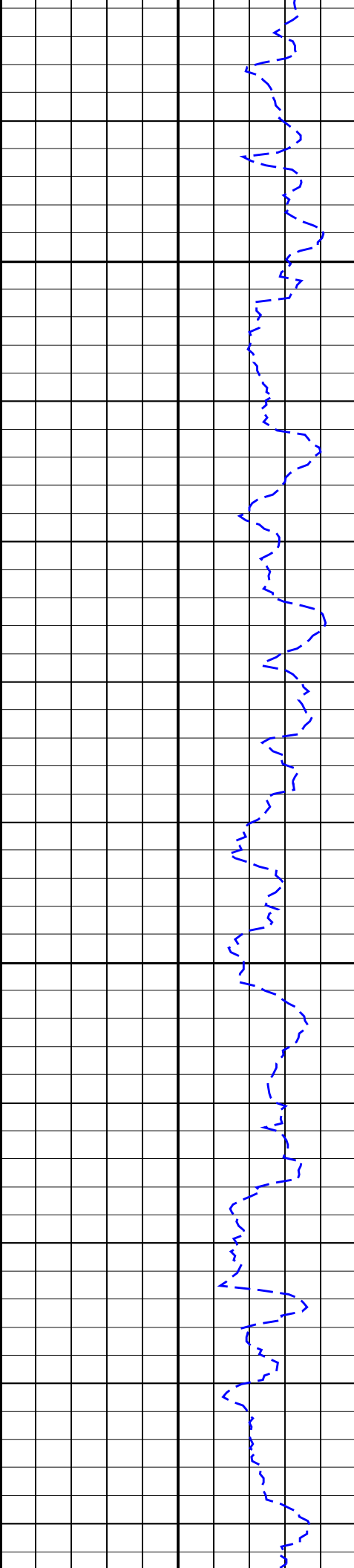




1300
TVD

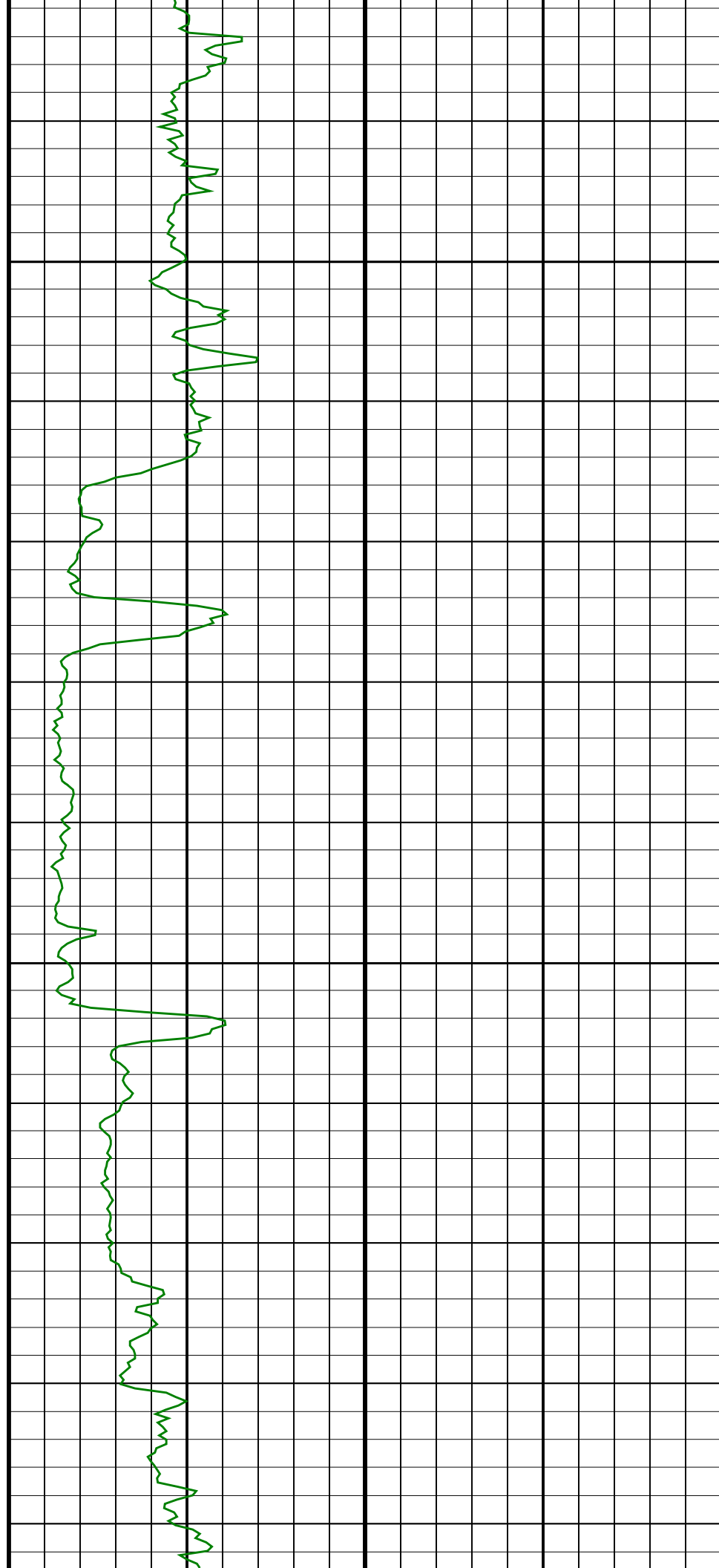
1325
TVD

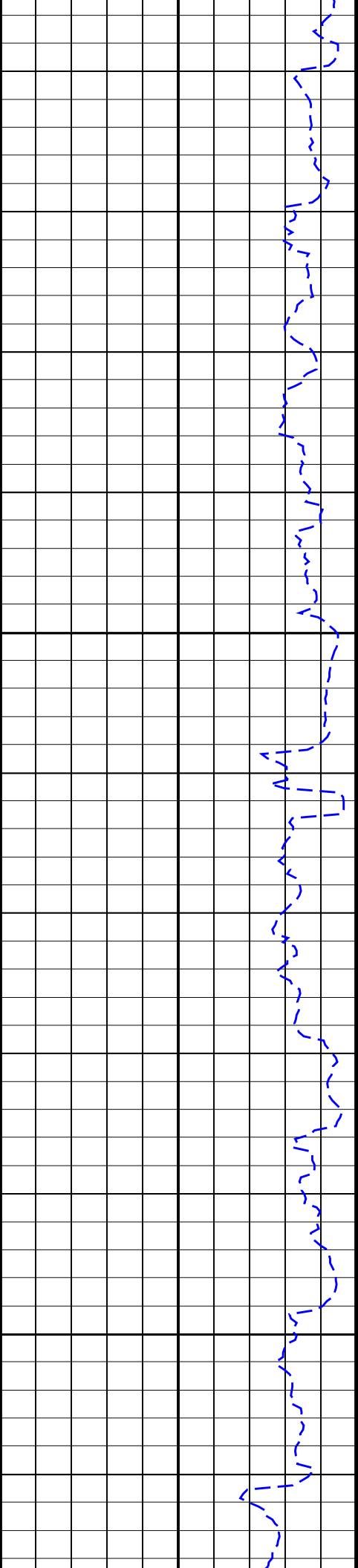




1350
TVD

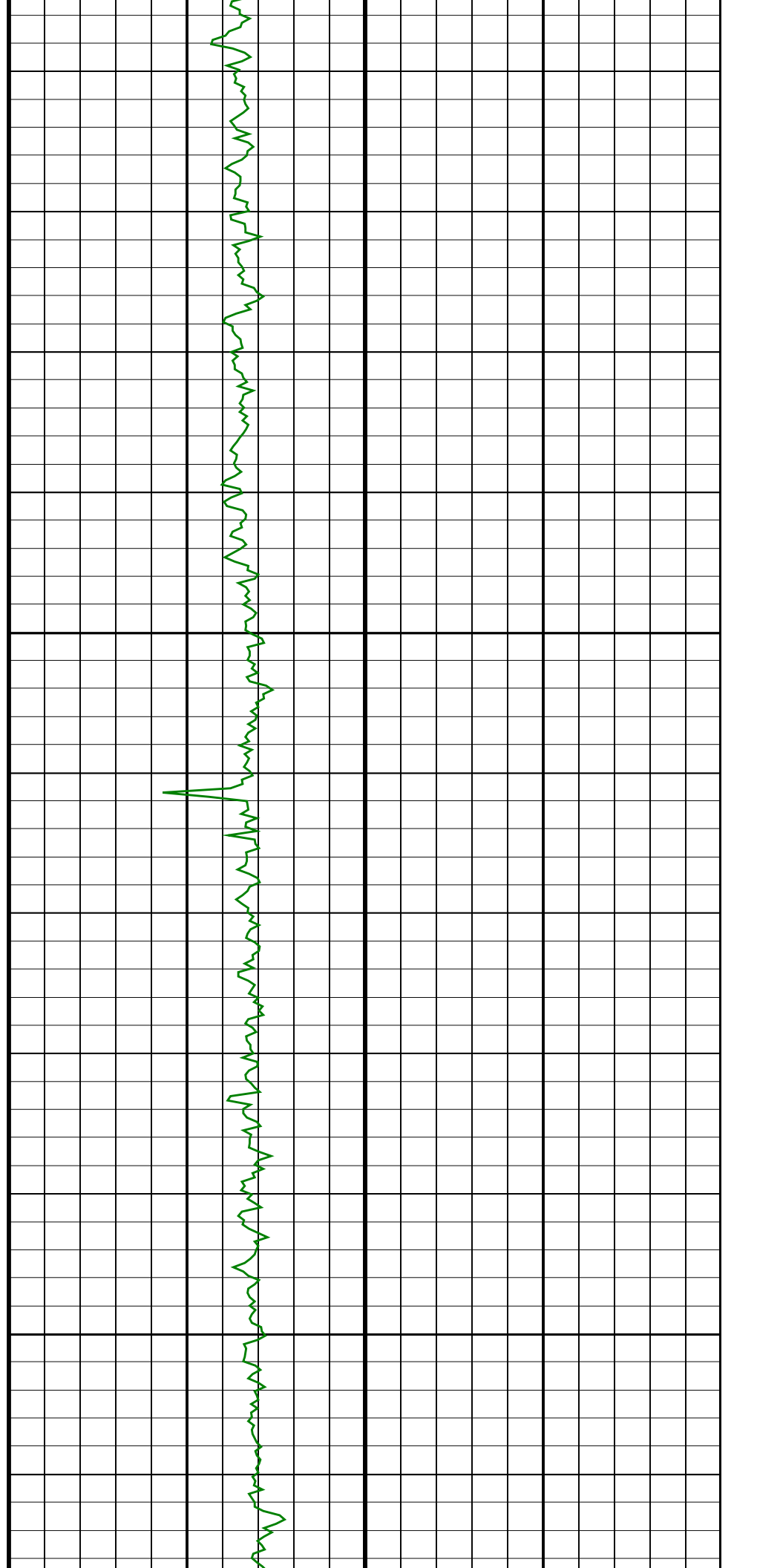
1375
TVD

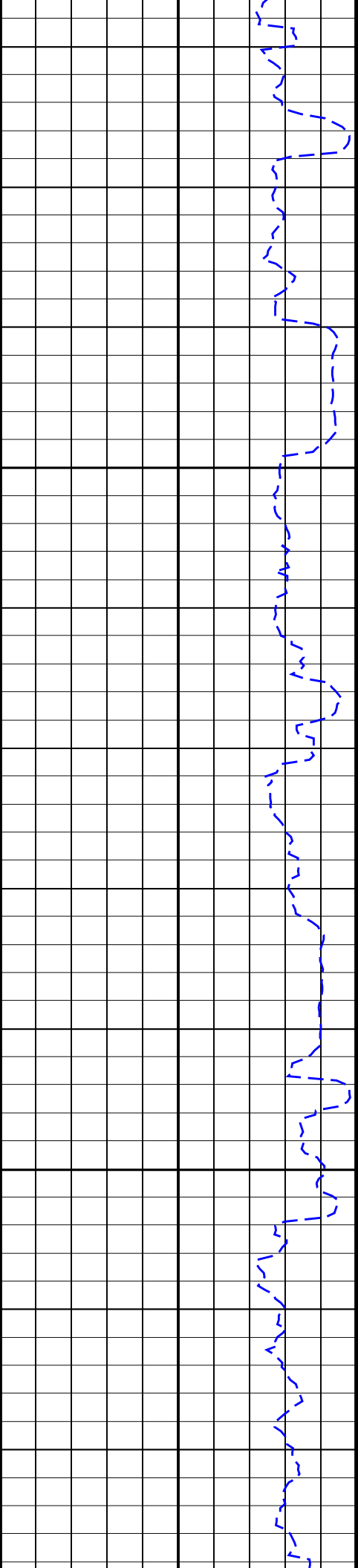




1475
TVD

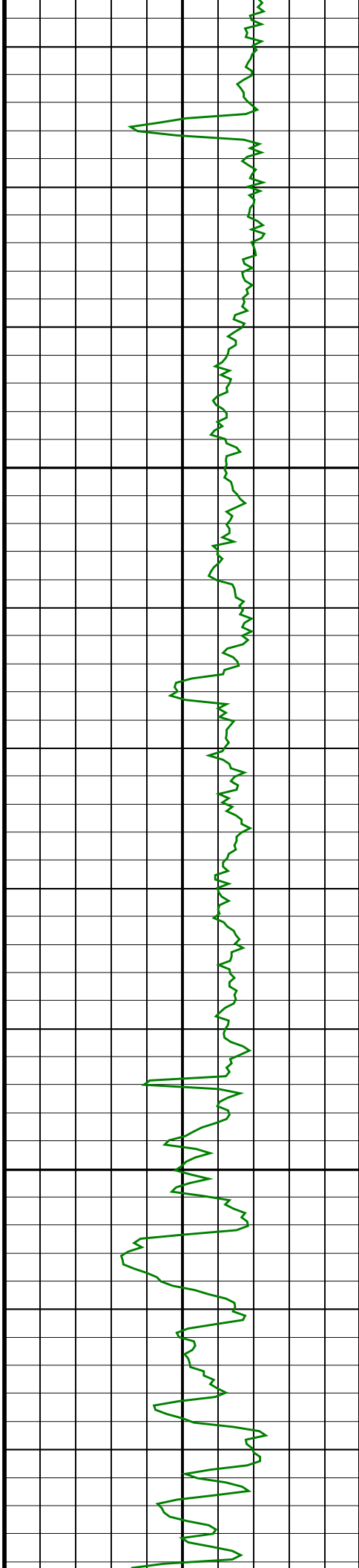
1500
TVD

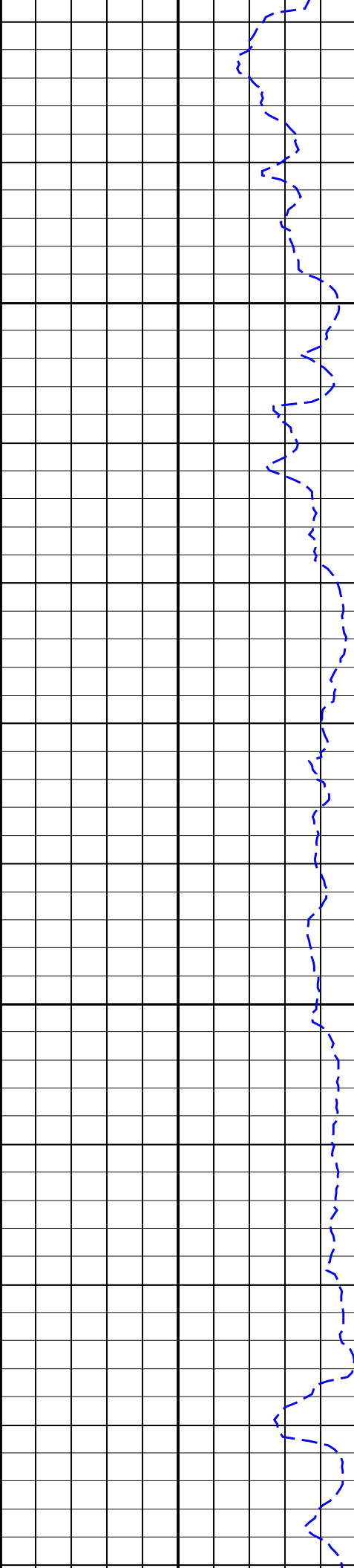




1525
TVD

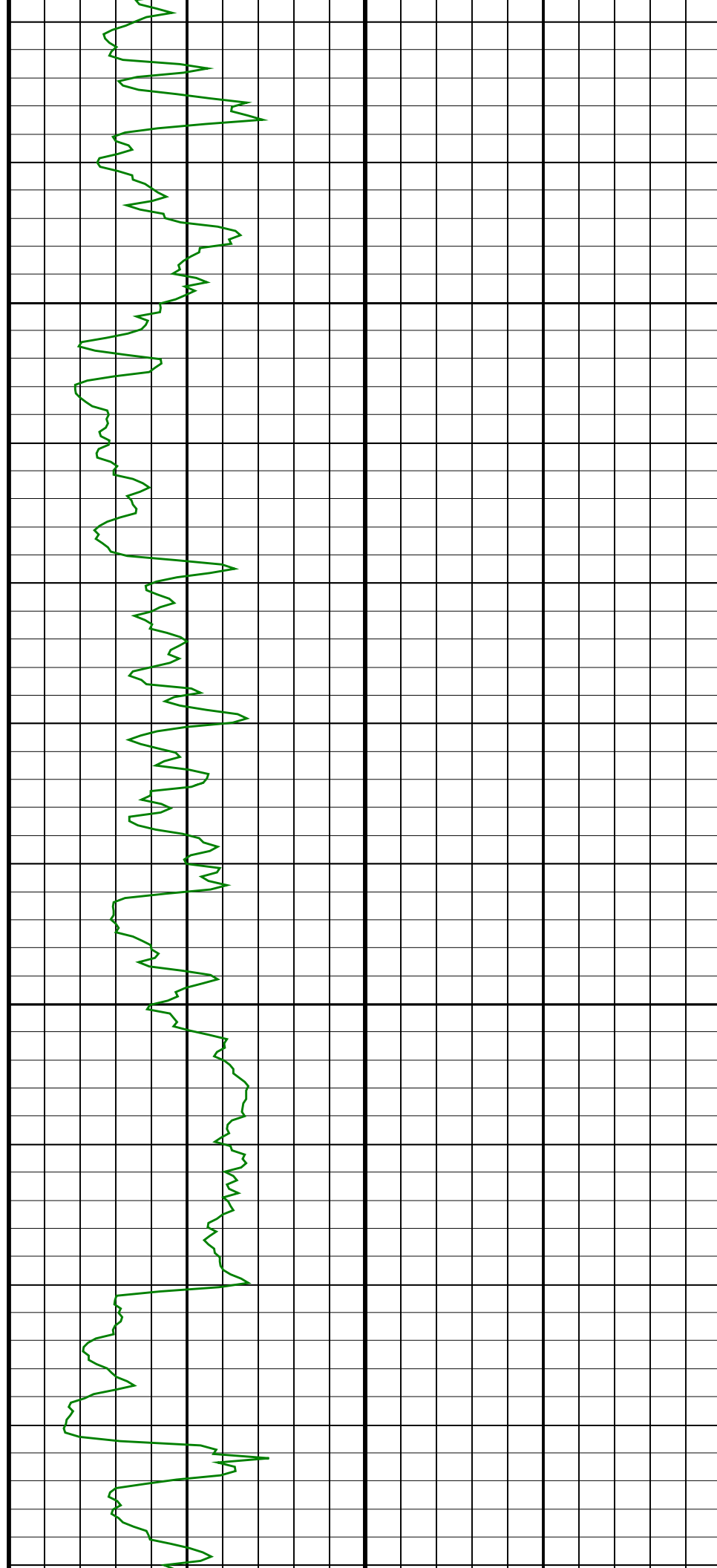
1550
TVD

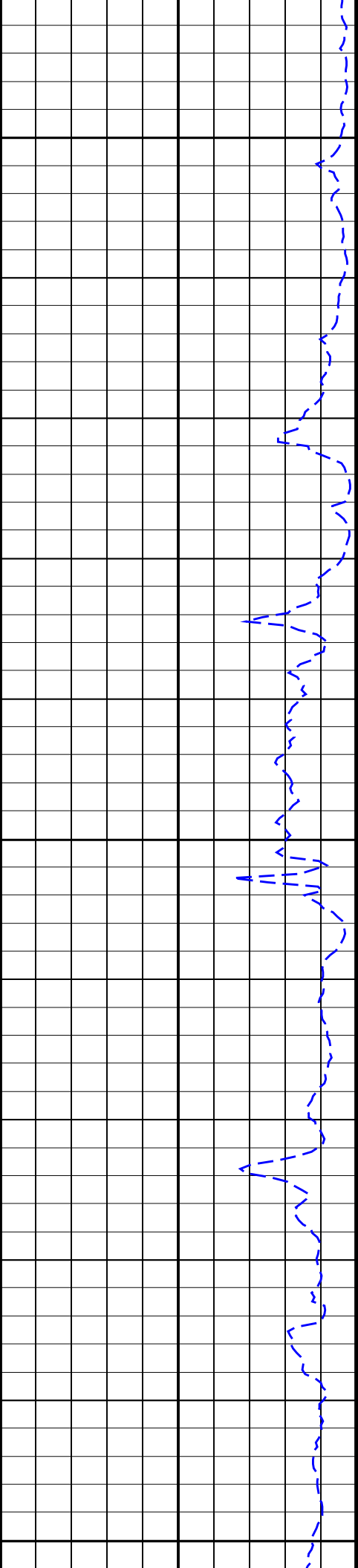




1575
TVD

1600
TVD

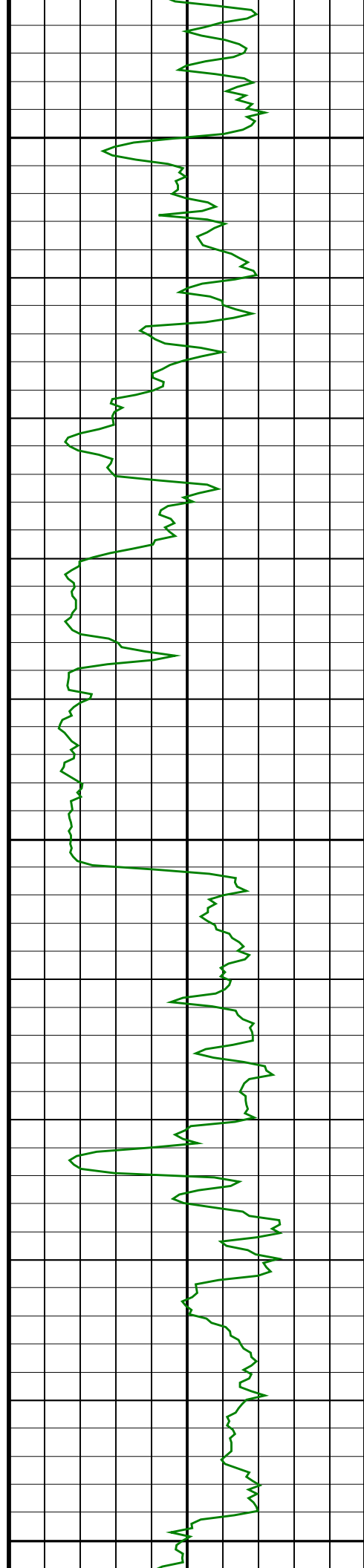




1625
TVD

Run 3 1650
TVD

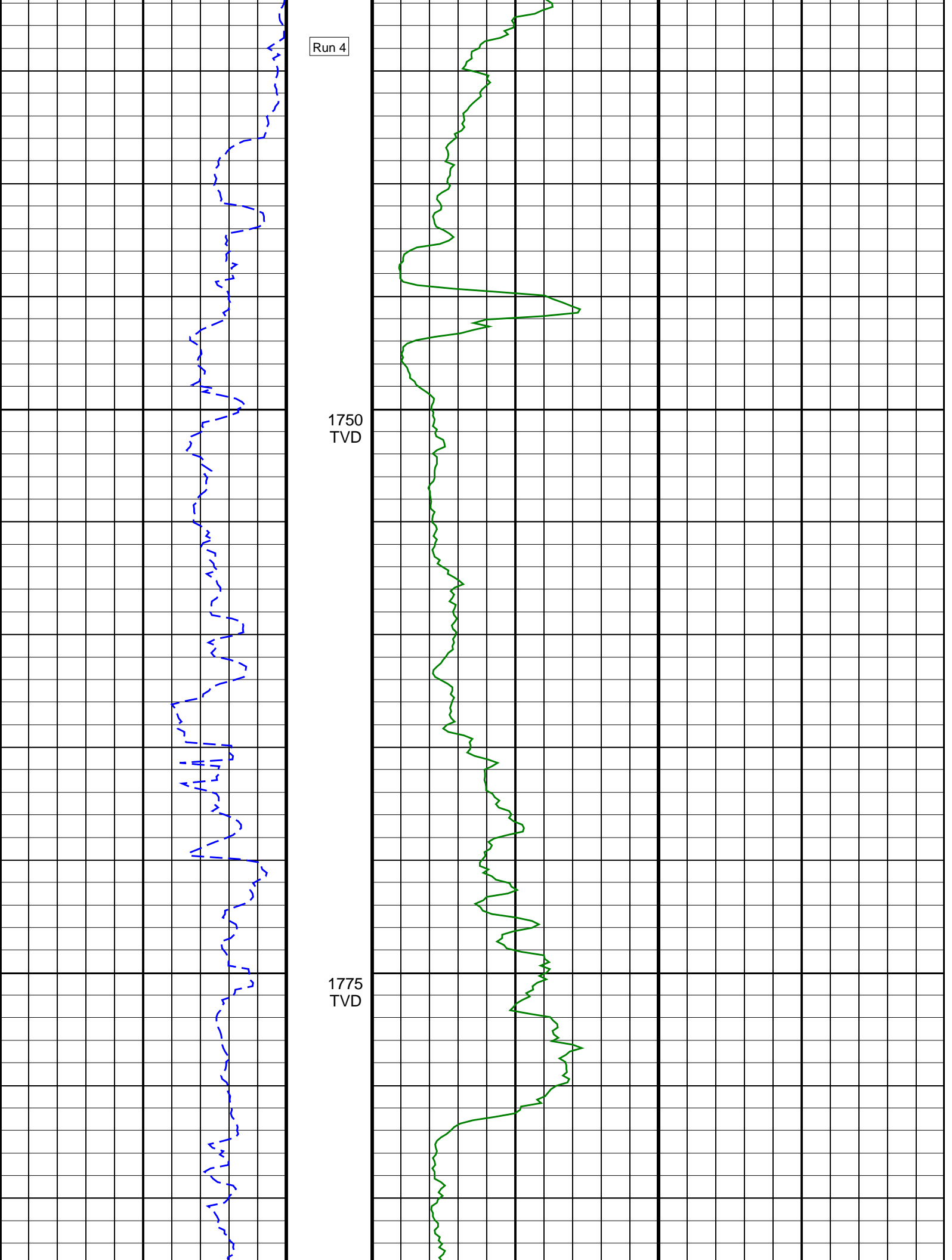
1675

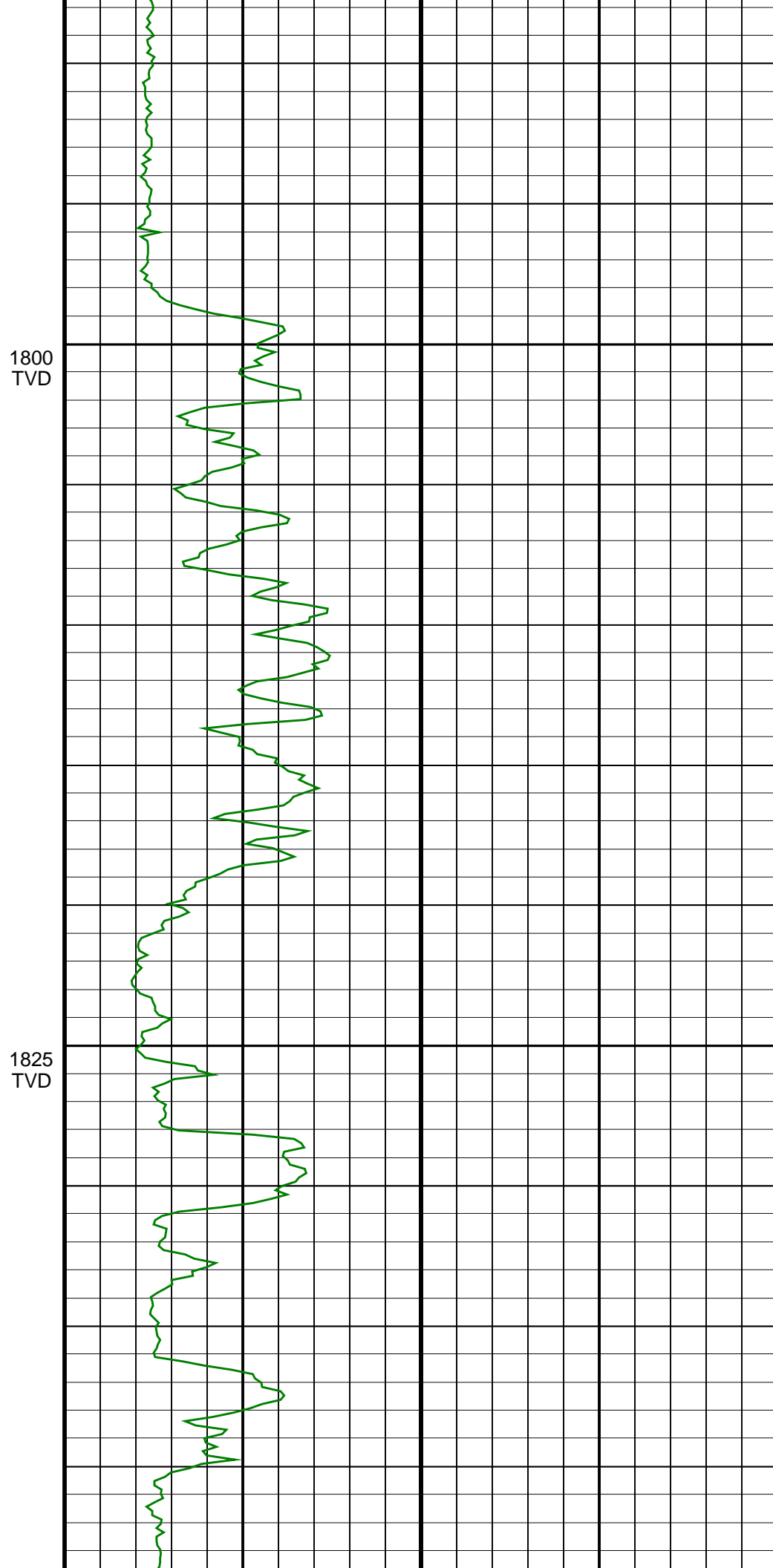
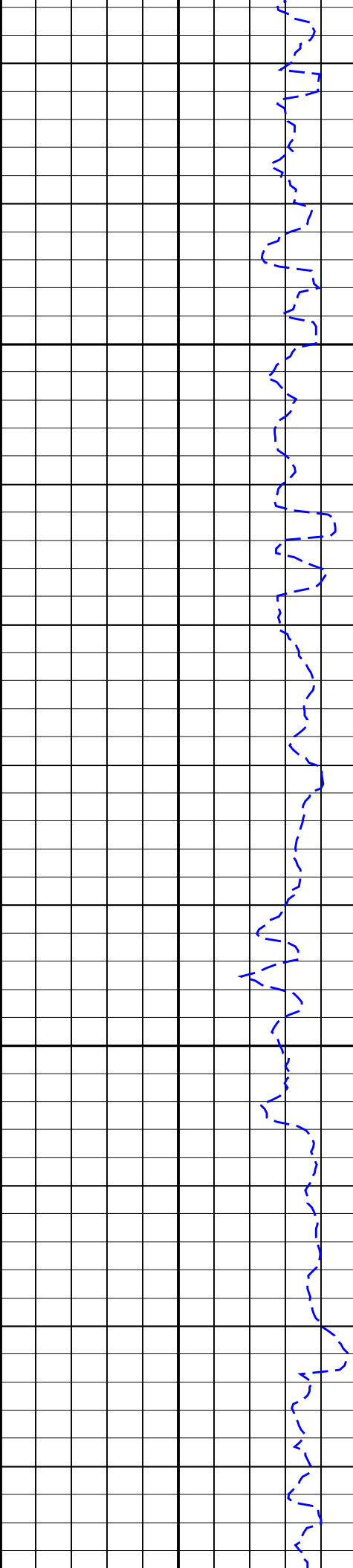


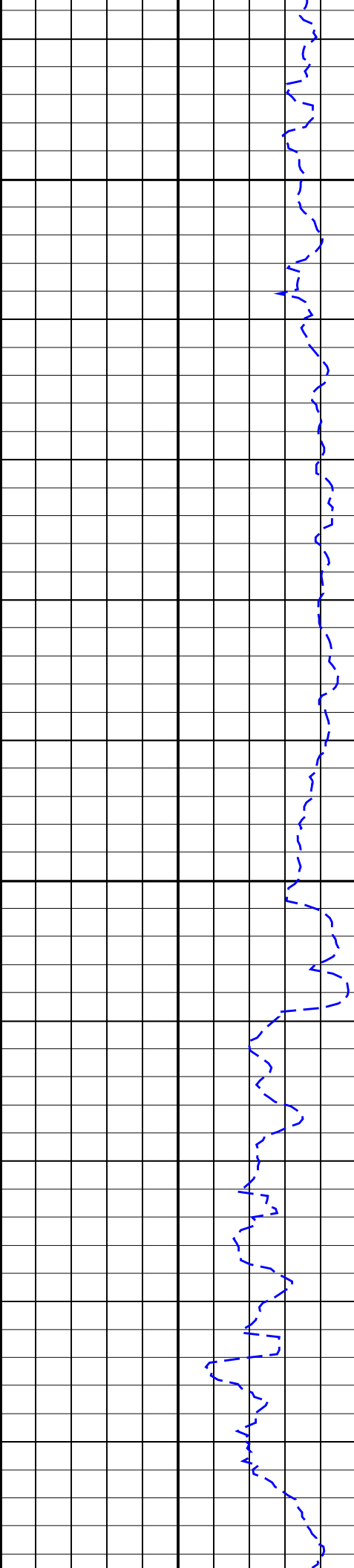
Run 4

1750
TVD

1775
TVD

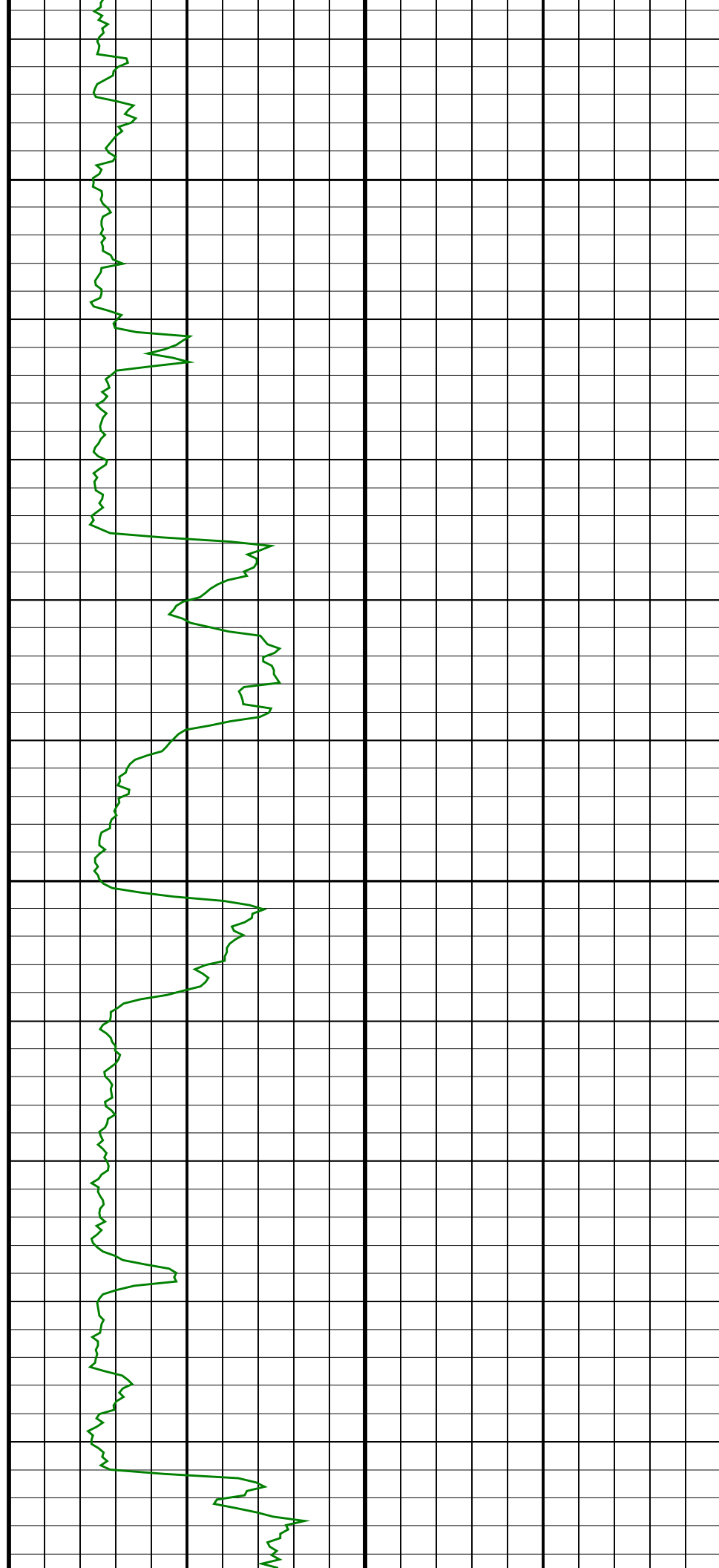


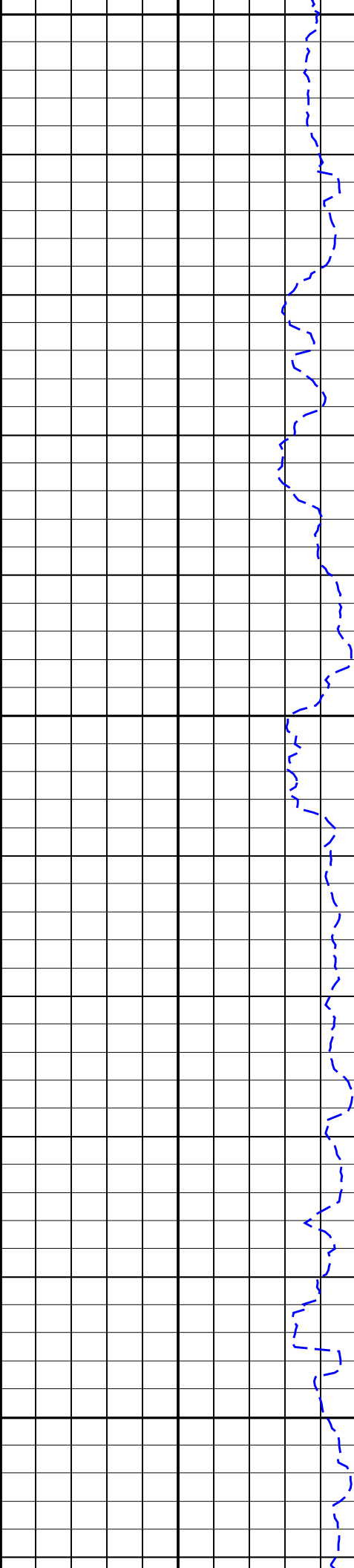




1850
TVD

1875
TVD

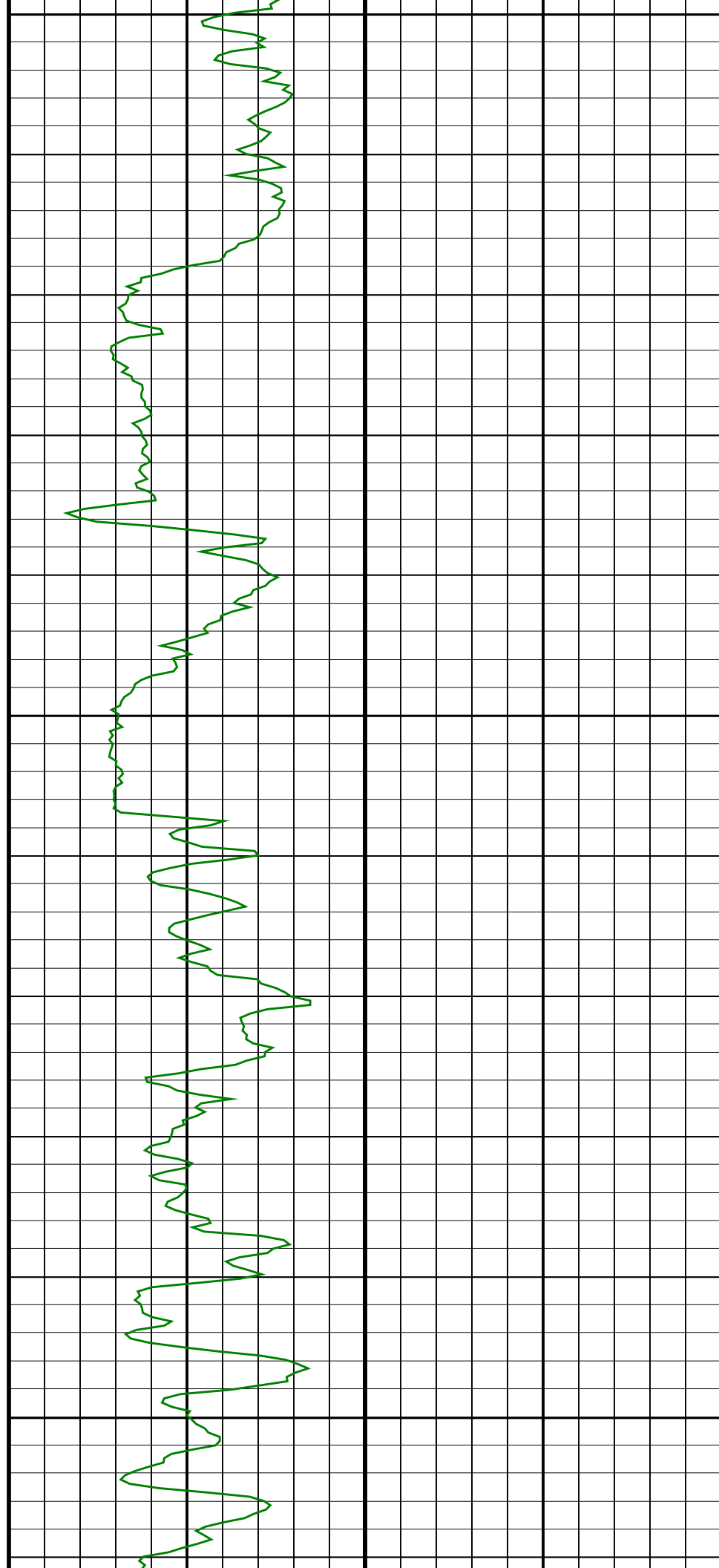


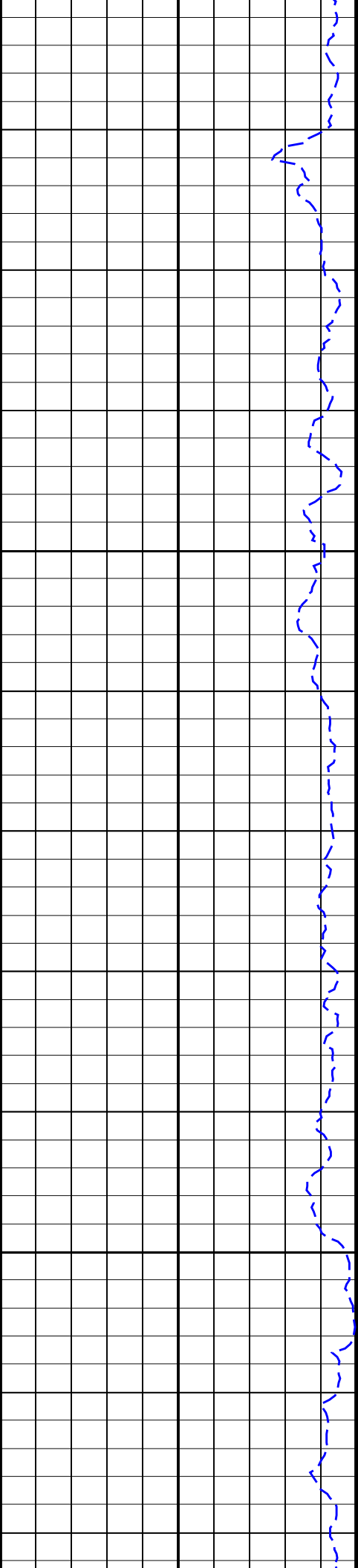


1900
TVD

1925
TVD

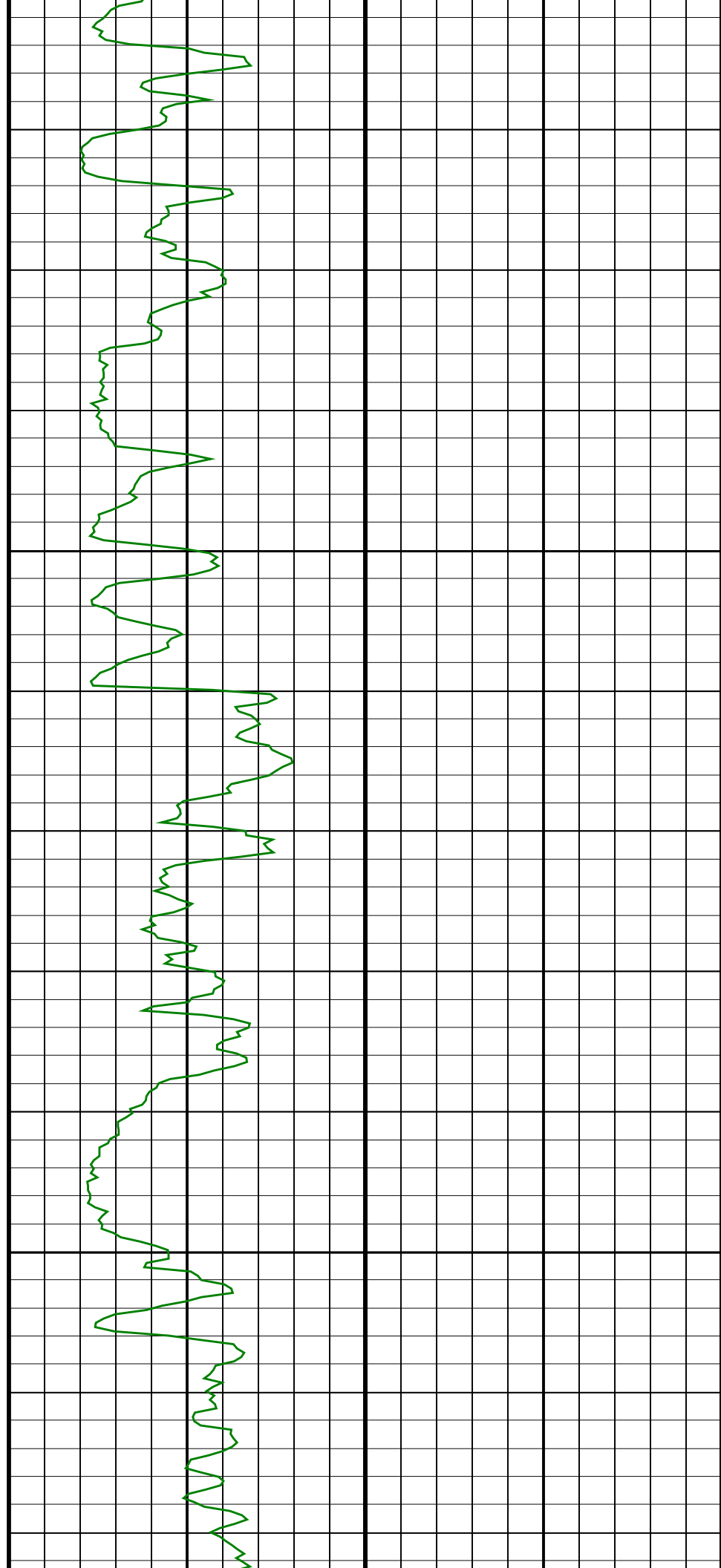
1950
TVD

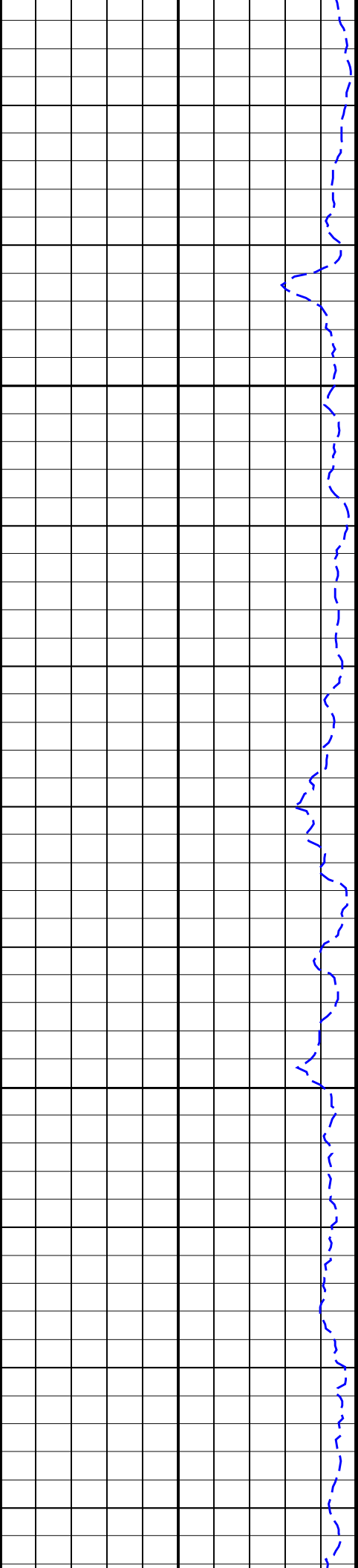




1975
TVD

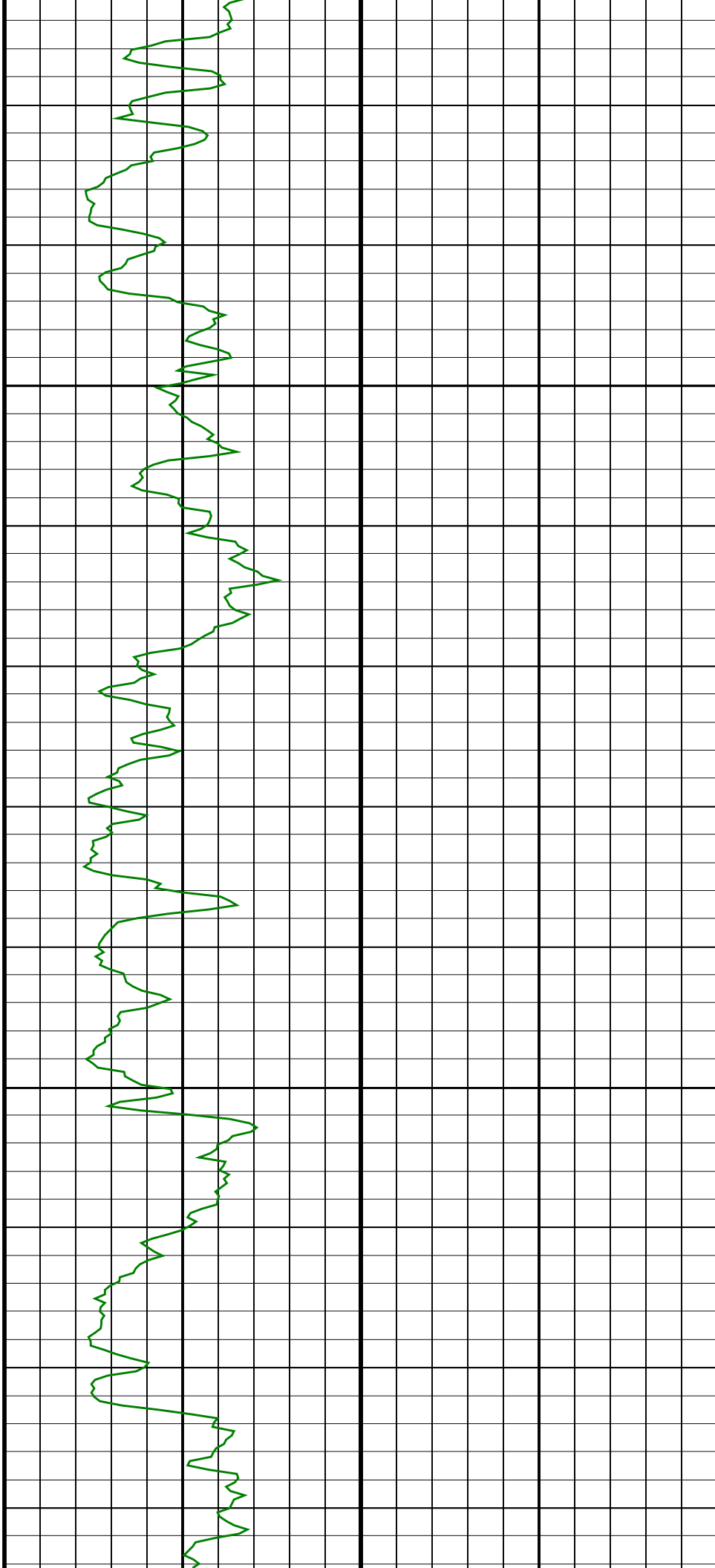
2000
TVD

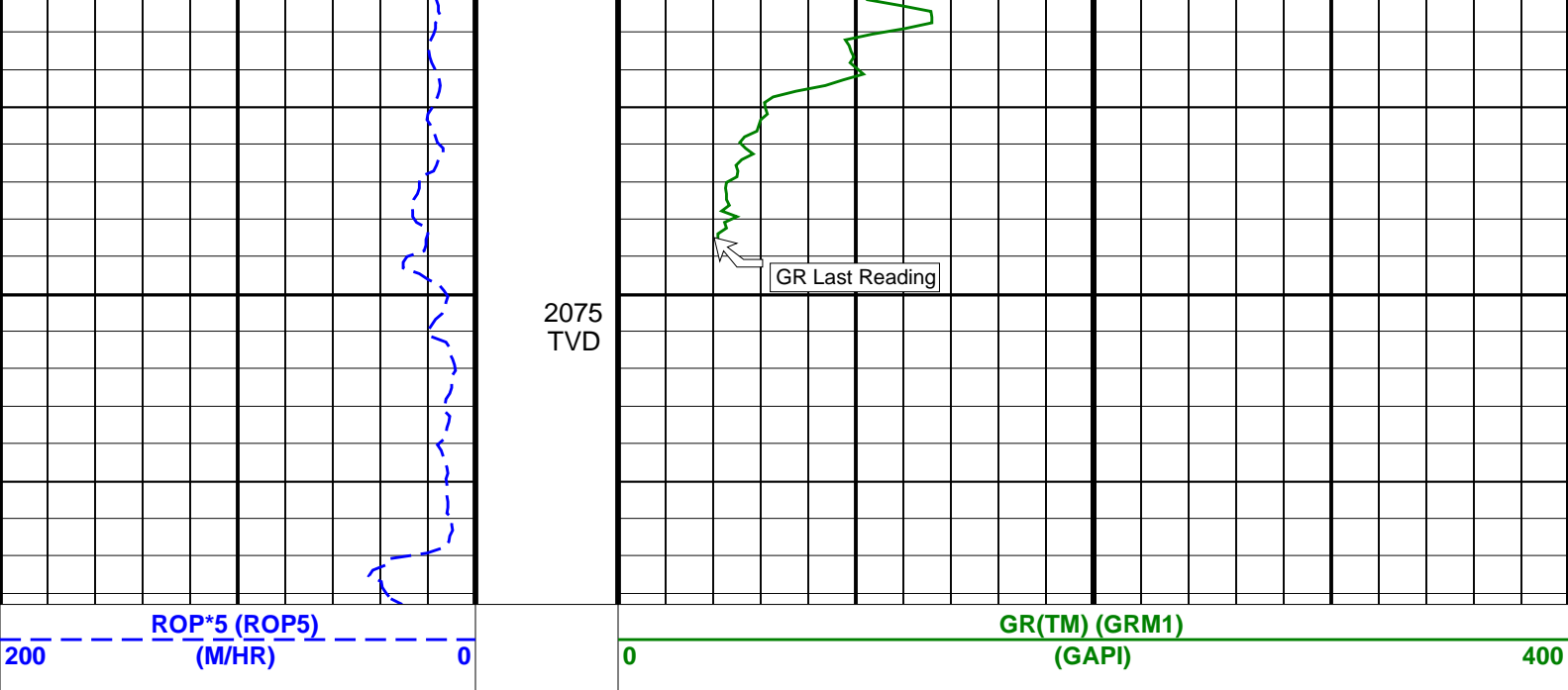




2025
TVD

2050
TVD





SCHLUMBERGER

Survey report

8-Dec-2004 17:26:57

Page 1 of 5

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

Well.....: TNA A15A
API number.....: N/A
Engineer.....: K.Handley,A.DeCastro,D.Hastie &
R.Borjas
Rig.....: ISDL 453
STATE.....: Victoria

Spud date.....: 24-Nov-2004
Last survey date.....: 07-Dec-04
Total accepted surveys...: 108
MD of first survey.....: 525.60 m
MD of last survey.....: 3283.00 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.....: 31.32 m
DF above permanent.....: 31.32 m

----- Vertical section origin-----
Latitude (+N/S-).....: -2.68 m
Departure (+E/W-).....: 10.78 m

----- Platform reference point-----
Latitude (+N/S-).....: 5774406.79 m
Departure (+E/W-).....: 624347.95 m

Azimuth from Vsect Origin to target: 89.48 degrees

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2004
Magnetic date.....: 13-Nov-2004
Magnetic field strength...: 1198.35 HCNT
Magnetic dec (+E/W-).....: 13.22 degrees
Magnetic dip.....: -68.66 degrees

----- MWD survey Reference Criteria -----
Reference G.....: 1000.02 mGal
Reference H.....: 1198.35 HCNT
Reference Dip.....: -68.66 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 13.22 degrees
Grid convergence (+E/W-)..: -0.88 degrees
Total az corr (+E/W-).....: 14.10 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

[[c)2004 IDEAL ID9_1C_01]
SCHLUMBERGER Survey Report

8-Dec-2004 17:26:57

Page 2 of 5

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	525.60	18.42	143.04	0.00	520.85	25.83	-41.23	36.96	55.37	138.13	0.00	TIP	None
2	530.20	18.90	142.16	4.60	525.21	26.71	-42.40	37.85	56.84	138.24	1.21	GYR	None
3	535.20	19.74	140.78	5.00	529.93	27.73	-43.69	38.88	58.49	138.33	1.91	GYR	None
4	540.20	20.59	139.48	5.00	534.62	28.82	-45.02	39.99	60.21	138.38	1.92	GYR	None
5	545.20	21.45	138.28	5.00	539.29	29.99	-46.37	41.17	62.01	138.40	1.92	GYR	None
6	550.20	22.32	137.17	5.00	543.93	31.23	-47.74	42.42	63.87	138.38	1.93	GYR	None
7	555.20	23.19	136.13	5.00	548.54	32.55	-49.15	43.75	65.80	138.33	1.92	GYR	None
8	560.20	24.07	135.17	5.00	553.12	33.94	-50.58	45.15	67.80	138.25	1.92	GYR	None
9	565.20	24.96	134.27	5.00	557.67	35.40	-52.04	46.63	69.88	138.14	1.93	GYR	None
10	570.20	25.85	133.44	5.00	562.18	36.93	-53.53	48.17	72.01	138.01	1.92	GYR	None
11	575.20	26.75	132.65	5.00	566.67	38.54	-55.04	49.79	74.22	137.87	1.93	GYR	None
12	580.20	27.65	131.91	5.00	571.11	40.21	-56.58	51.48	76.50	137.70	1.92	GYR	None
13	585.20	28.55	131.21	5.00	575.52	41.96	-58.14	53.25	78.84	137.52	1.92	GYR	None
14	589.00	29.24	130.71	3.80	578.85	43.34	-59.34	54.63	80.66	137.37	1.92	GYR	None

15	618.05	30.26	128.56	29.05	604.07	54.36	-68.53	65.73	94.96	136.19	0.51	MWD	None
16	646.25	33.36	120.11	28.20	628.05	66.55	-76.86	78.01	109.51	134.58	1.92	MWD	None
17	675.91	35.36	112.58	29.66	652.54	81.47	-84.25	92.99	125.48	132.18	1.58	MWD	None
18	702.63	36.33	105.02	26.72	674.21	96.22	-89.27	107.79	139.96	129.63	1.70	MWD	None
19	733.00	38.64	97.91	30.37	698.32	114.27	-92.91	125.88	156.45	126.43	1.61	MWD	None
20	761.03	39.81	92.72	28.03	720.04	131.89	-94.54	143.51	171.86	123.38	1.24	MWD	None
21	789.92	43.13	89.10	28.89	741.69	151.01	-94.83	162.63	188.26	120.24	1.42	MWD	None
22	818.99	44.98	87.30	29.07	762.58	171.22	-94.19	182.84	205.67	117.25	0.77	MWD	None
23	847.80	47.68	86.50	28.81	782.47	192.03	-93.06	203.64	223.90	114.56	0.96	MWD	None
24	876.56	51.20	86.13	28.76	801.17	213.85	-91.65	225.44	243.36	112.12	1.23	MWD	None
25	905.54	54.18	86.28	28.98	818.73	236.86	-90.12	248.44	264.28	109.94	1.03	MWD	None
26	933.97	55.48	87.40	28.43	835.11	260.07	-88.85	271.64	285.80	108.11	0.56	MWD	None
27	962.97	56.82	87.65	29.00	851.26	284.14	-87.81	295.70	308.47	106.54	0.47	MWD	None
28	991.43	57.37	88.22	28.46	866.72	308.03	-86.95	319.58	331.20	105.22	0.26	MWD	None
29	1019.71	57.52	87.84	28.28	881.94	331.85	-86.13	343.40	354.04	104.08	0.13	MWD	None
30	1048.27	57.58	86.28	28.56	897.26	355.93	-84.89	367.47	377.15	103.01	0.46	MWD	None

[(c)2004 IDEAL ID9_1C_01]

SCHLUMBERGER Survey Report

8-Dec-2004 17:26:57

Page

3 of 5

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	1076.89	57.52	85.92	28.62	912.62	380.04	-83.25	391.57	400.32	102.00	0.11	MWD	None
32	1105.47	58.59	85.52	28.58	927.74	404.24	-81.44	415.75	423.65	101.08	0.39	MWD	None
33	1133.77	57.61	85.55	28.30	942.70	428.21	-79.57	439.70	446.85	100.26	0.35	MWD	None
34	1162.39	56.83	85.75	28.62	958.19	452.22	-77.74	463.70	470.17	99.52	0.28	MWD	None
35	1191.32	59.18	86.05	28.93	973.52	476.70	-75.99	488.17	494.05	98.85	0.82	MWD	None
36	1219.94	59.62	86.58	28.62	988.09	501.30	-74.40	512.75	518.12	98.26	0.22	MWD	None
37	1248.97	59.08	86.43	29.03	1002.89	526.24	-72.88	537.68	542.60	97.72	0.19	MWD	None
38	1277.79	58.03	86.59	28.82	1017.92	550.79	-71.39	562.22	566.73	97.24	0.37	MWD	None
39	1306.77	58.66	86.23	28.98	1033.13	575.43	-69.84	586.84	590.98	96.79	0.24	MWD	None
40	1335.78	58.06	86.60	29.01	1048.35	600.09	-68.30	611.49	615.29	96.37	0.23	MWD	None
41	1364.57	57.57	86.58	28.79	1063.68	624.42	-66.85	635.81	639.32	96.00	0.17	MWD	None
42	1393.41	57.66	86.83	28.84	1079.13	648.75	-65.45	660.13	663.36	95.66	0.08	MWD	None
43	1422.51	56.98	86.99	29.10	1094.84	673.22	-64.13	684.58	687.58	95.35	0.24	MWD	None
44	1450.33	56.64	86.78	27.82	1110.07	696.48	-62.86	707.83	710.62	95.08	0.14	MWD	None
45	1479.46	57.97	86.92	29.13	1125.81	720.96	-61.51	732.31	734.89	94.80	0.46	MWD	None
46	1507.99	57.07	86.93	28.53	1141.13	745.01	-60.22	756.34	758.73	94.55	0.32	MWD	None
47	1536.82	57.87	86.73	28.83	1156.63	769.29	-58.88	780.61	782.83	94.31	0.28	MWD	None
48	1565.54	57.56	86.90	28.72	1171.97	793.54	-57.53	804.85	806.91	94.09	0.12	MWD	None
49	1593.79	58.50	87.00	28.25	1186.93	817.48	-56.26	828.78	830.69	93.88	0.33	MWD	None
50	1622.61	58.56	87.45	28.82	1201.97	842.05	-55.07	853.34	855.11	93.69	0.13	MWD	None
51	1650.37	57.58	87.27	27.76	1216.66	865.59	-53.98	876.87	878.53	93.52	0.36	MWD	None
52	1679.42	58.23	87.44	29.05	1232.09	890.18	-52.84	901.45	903.00	93.35	0.23	MWD	None
53	1708.40	58.40	87.72	28.98	1247.31	914.83	-51.80	926.09	927.54	93.20	0.10	MWD	None
54	1736.93	57.36	87.73	28.53	1262.48	938.98	-50.84	950.24	951.60	93.06	0.36	MWD	None
55	1766.08	57.03	87.45	29.15	1278.27	963.47	-49.81	974.72	975.99	92.93	0.14	MWD	None
56	1794.50	57.76	87.64	28.42	1293.59	987.40	-48.79	998.63	999.83	92.80	0.26	MWD	None
57	1823.21	58.21	87.73	28.71	1308.81	1011.73	-47.81	1022.96	1024.07	92.68	0.16	MWD	None
58	1852.32	57.57	87.64	29.11	1324.28	1036.37	-46.81	1047.60	1048.64	92.56	0.22	MWD	None
59	1881.06	56.99	87.97	28.74	1339.82	1060.54	-45.88	1071.76	1072.74	92.45	0.22	MWD	None
60	1909.67	57.43	87.82	28.61	1355.31	1084.58	-45.00	1095.79	1096.72	92.35	0.16	MWD	None

[(c)2004 IDEAL ID9_1C_01]

SCHLUMBERGER Survey Report

8-Dec-2004 17:26:57

Page

4 of 5

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	1938.53	56.74	87.84	28.86	1370.99	1108.80	-44.08	1120.00	1120.87	92.25	0.24	MWD	None
62	1967.29	56.88	87.42	28.76	1386.74	1132.86	-43.09	1144.05	1144.86	92.16	0.13	MWD	None
63	1996.11	57.45	87.57	28.82	1402.36	1157.06	-42.03	1168.24	1169.00	92.06	0.20	MWD	None
64	2025.12	57.73	87.54	29.01	1417.91	1181.53	-40.98	1192.71	1193.41	91.97	0.10	MWD	None
65	2053.67	58.36	87.19	28.55	1433.02	1205.74	-39.87	1216.91	1217.56	91.88	0.24	MWD	None
66	2082.42	57.95	87.55	28.75	1448.19	1230.15	-38.75	1241.30	1241.91	91.79	0.18	MWD	None
67	2111.01	57.37	87.61	28.59	1463.49	1254.29	-37.73	1265.44	1266.00	91.71	0.20	MWD	None
68	2139.60	57.95	86.56	28.59	1478.78	1278.42	-36.50	1289.56	1290.08	91.62	0.37	MWD	None
69	2168.77	58.27	86.43	29.17	1494.19	1303.16	-34.99	1314.28	1314.75	91.52	0.12	MWD	None
70	2197.28	57.99	86.80	28.51	1509.24	1327.34	-33.56	1338.45	1338.87	91.44	0.15	MWD	None
71	2225.86	58.67	86.16	28.58	1524.25	1351.63	-32.06	1362.73	1363.11	91.35	0.30	MWD	None
72	2254.23	58.23	86.19	28.37	1539.09	1375.76	-30.45	1386.85	1387.19	91.26	0.16	MWD	None
73	2283.11	59.77	86.02	28.88	1553.97	1400.48	-28.77	1411.55	1411.84	91.17	0.54	MWD	None
74	2311.66	60.40	85.97	28.55	1568.20	1425.18	-27.04	1436.24	1436.49	91.08	0.22	MWD	None
75	2340.15	60.76	85.89	28.49	1582.20	1449.94	-25.28	1460.99	1461.21	90.99	0.13	MWD	None
76	2369.07	60.21	85.46	28.92	1596.45	1475.06	-23.38	1486.08	1486.27	90.90	0.23	MWD	None
77	2397.38	59.55	85.55	28.31	1610.65	1499.48	-21.46	1510.50	1510.65	90.81	0.23	MWD	None
78	2426.51	58.94	85.93	29.13	1625.55	1524.46	-19.60	1535.46	1535.58	90.73	0.24	MWD	None
79	2455.03	58.43	86.49	28.52	1640.37	1548.79	-17.99	1559.77	1559.88	90.66	0.25	MWD	None
80	2484.90	58.24	86.32	29.87	1656.05	1574.18	-16.40	1585.14	1585.23	90.59	0.08	MWD	None
81	2513.69	58.06	86.89	28.79	1671.24	1598.60	-14.95	1609.56	1609.63	90.53	0.18	MWD	None
82	2542.30	57.65	86.75	28.61	1686.47	1622.80	-13.60	1633.74	1633.80	90.48	0.15	MWD	None
83	2570.06	57.78	86.75	27.76	1701.29	1646.24	-12.27	1657.17	1657.22	90.42	0.05	MWD	None
84	2599.26	57.99	86.81	29.20	1716.82	1670.94	-10.88	1681.87	1681.90	90.37	0.07	MWD	None
85	2627.86	56.29	86.73	28.60	1732.34	1694.94	-9.53	1705.85	1705.88	90.32	0.59	MWD	None
86	2656.24	56.50	86.48	28.38	1748.04	1718.55	-8.13	1729.45	1729.47	90.27	0.10	MWD	None
87	2684.69	56.75	86.65	28.45	1763.69	1742.27	-6.71	1753.16	1753.18	90.22	0.10	MWD	None

88	2713.37	56.92	86.46	28.68	1779.38	1766.25	-5.27	1777.13	1777.14	90.17	0.08	MWD	None
89	2741.98	56.98	86.40	28.61	1794.99	1790.20	-3.77	1801.06	1801.07	90.12	0.03	MWD	None
90	2770.28	57.22	86.23	28.30	1810.36	1813.92	-2.24	1824.77	1824.77	90.07	0.10	MWD	None

[(c)2004 IDEAL ID9_1C_01]
SCHLUMBERGER Survey Report

8-Dec-2004 17:26:57

Page 5 of 5

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)
91	2799.13	57.34	86.10	28.85	1825.95	1838.15	-0.62	1848.99	1848.99	90.02	0.06	MWD	None
92	2826.02	57.41	86.35	26.89	1840.45	1860.77	0.87	1871.59	1871.59	89.97	0.08	MWD	None
93	2856.22	57.46	86.01	30.20	1856.70	1886.17	2.57	1896.99	1896.99	89.92	0.10	MWD	None
94	2884.80	57.45	86.19	28.58	1872.08	1910.23	4.20	1921.02	1921.03	89.87	0.05	MWD	None
95	2913.50	57.48	85.91	28.70	1887.51	1934.38	5.87	1945.16	1945.17	89.83	0.08	MWD	None
96	2941.92	57.79	86.17	28.42	1902.73	1958.34	7.53	1969.11	1969.12	89.78	0.13	MWD	None
97	2970.86	57.77	86.15	28.94	1918.16	1982.78	9.17	1993.54	1993.56	89.74	0.01	MWD	None
98	2999.49	57.65	86.30	28.63	1933.45	2006.95	10.76	2017.69	2017.71	89.69	0.06	MWD	None
99	3028.05	57.86	86.61	28.56	1948.69	2031.07	12.25	2041.79	2041.83	89.66	0.12	MWD	None
100	3056.80	57.88	86.45	28.75	1963.98	2055.38	13.73	2066.10	2066.14	89.62	0.05	MWD	None
101	3084.65	57.88	86.55	27.85	1978.79	2078.94	15.17	2089.64	2089.69	89.58	0.03	MWD	None
102	3113.41	58.07	86.62	28.76	1994.04	2103.29	16.62	2113.98	2114.05	89.55	0.07	MWD	None
103	3142.57	58.08	86.92	29.16	2009.46	2128.01	18.02	2138.69	2138.77	89.52	0.09	MWD	None
104	3171.76	58.02	87.02	29.19	2024.91	2152.75	19.32	2163.42	2163.51	89.49	0.04	MWD	None
105	3200.93	58.30	87.22	29.17	2040.30	2177.51	20.57	2188.17	2188.27	89.46	0.11	MWD	None
106	3233.10	58.37	87.35	32.17	2057.18	2204.87	21.87	2215.52	2215.63	89.43	0.04	MWD	None
107	3258.20	58.29	87.35	25.10	2070.36	2226.22	22.85	2236.86	2236.98	89.41	0.03	MWD	None
108	3283.00	58.30	87.35	24.80	2083.40	2247.31	23.83	2257.94	2258.06	89.40	0.00	Projection to TD	

[(c)2004 IDEAL ID9_1C_01]

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

Schlumberger

Well: **TNA A15A**

Field: **Tuna**

Rig: **ISDL 453**

State: **Victoria**

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