

Potassium	%	4.2									
Environmental data											
GR											
Mud weight	ppg	10.05									
Bit size	in	8.5									
Resistivity											
Neutron porosity											
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;">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 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.	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

EQUIPMENT DESCRIPTION		
RUN1	RUN	RUN
DOWNHOLE EQUIPMENT		

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

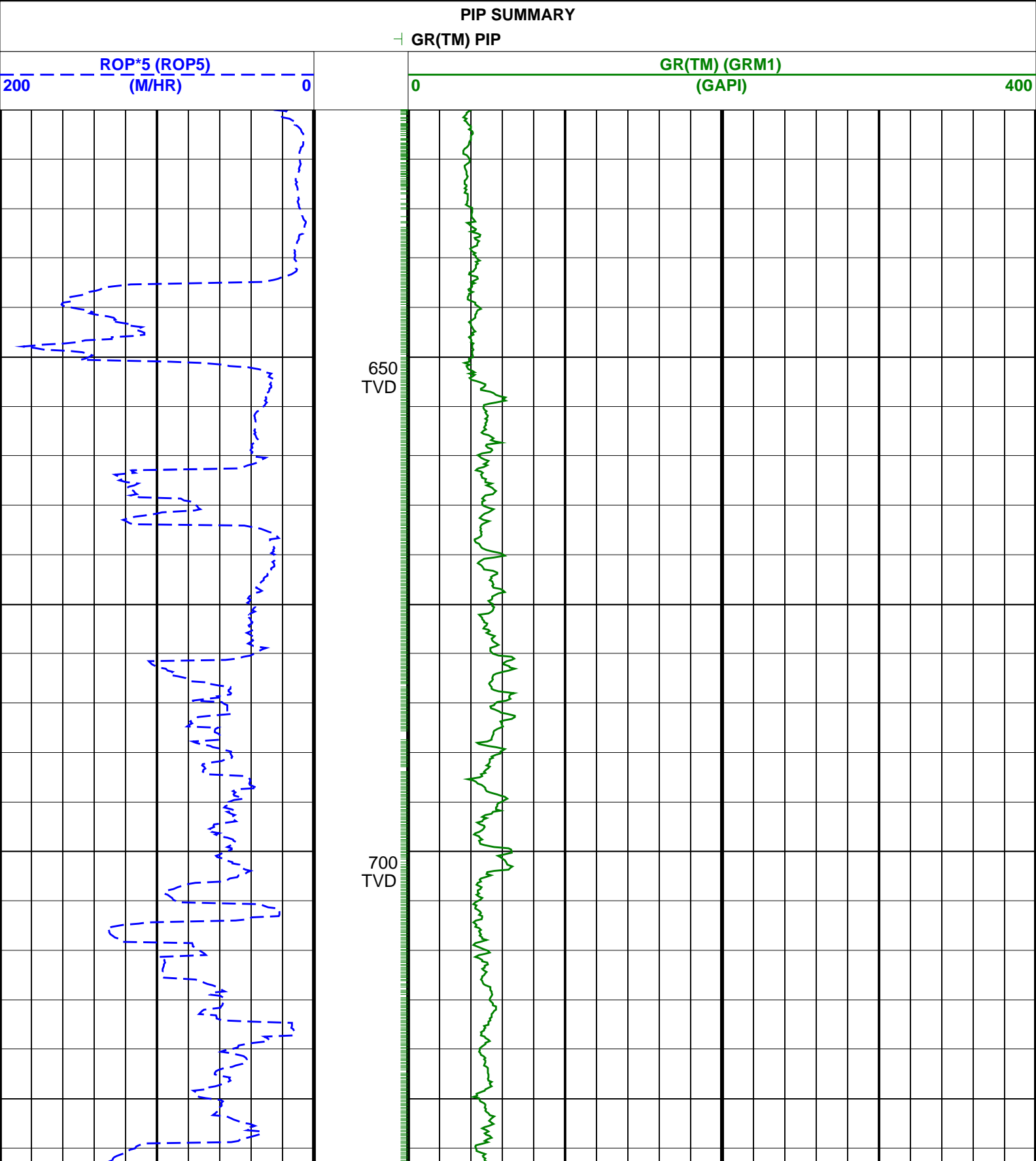
Smith PDC Bit
OD: 8-1/2 in.
S73PX S/N: JT6967 R3

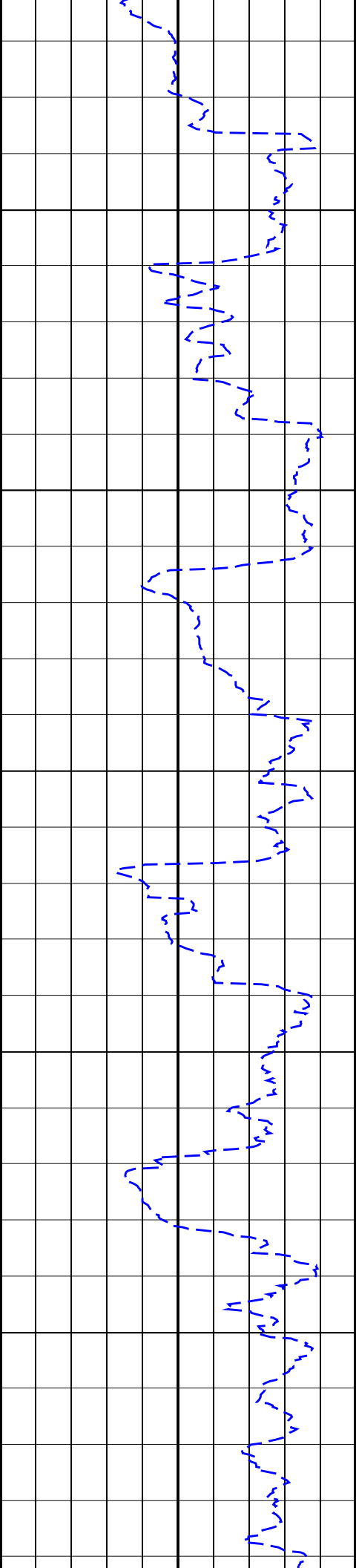
0.22

Maximum string diameter 8.50 in.
All lengths in Metres

WKF 18A RT 1:500 TVD

IDEAL Version: ID11_OC_01 <TVD> Vertical Scale: 1:500 Graphics File Created: 01-May-2006 03:20

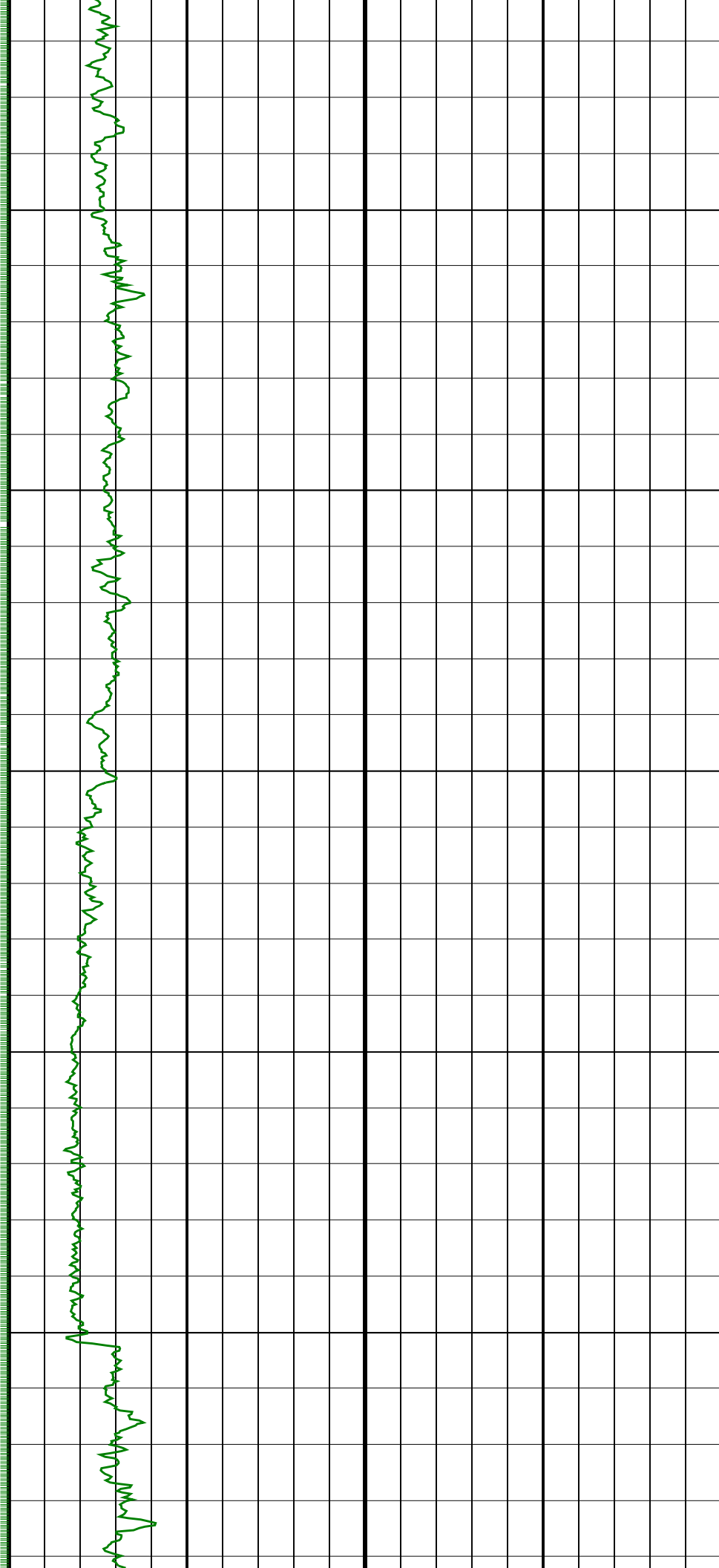


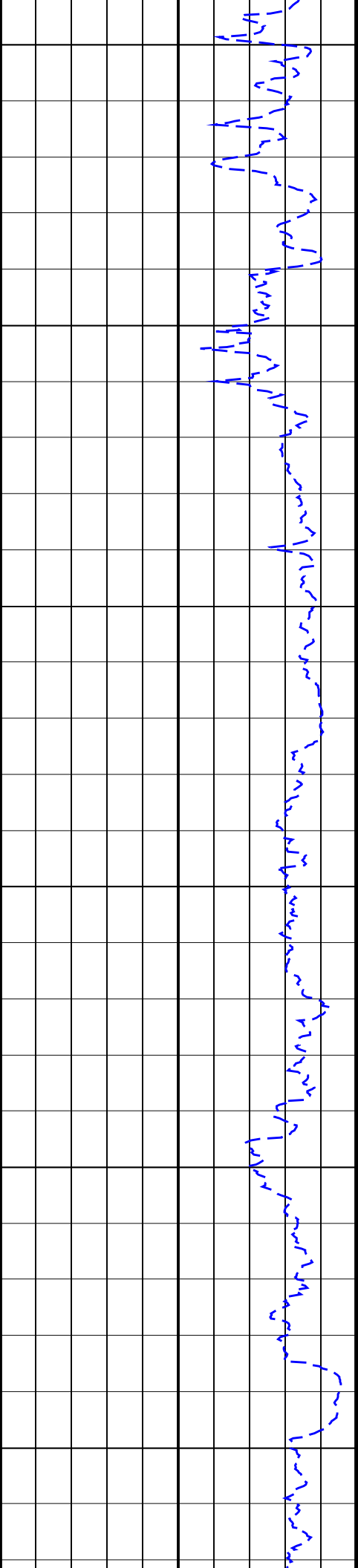


750
TVD

800
TVD

850
TVD

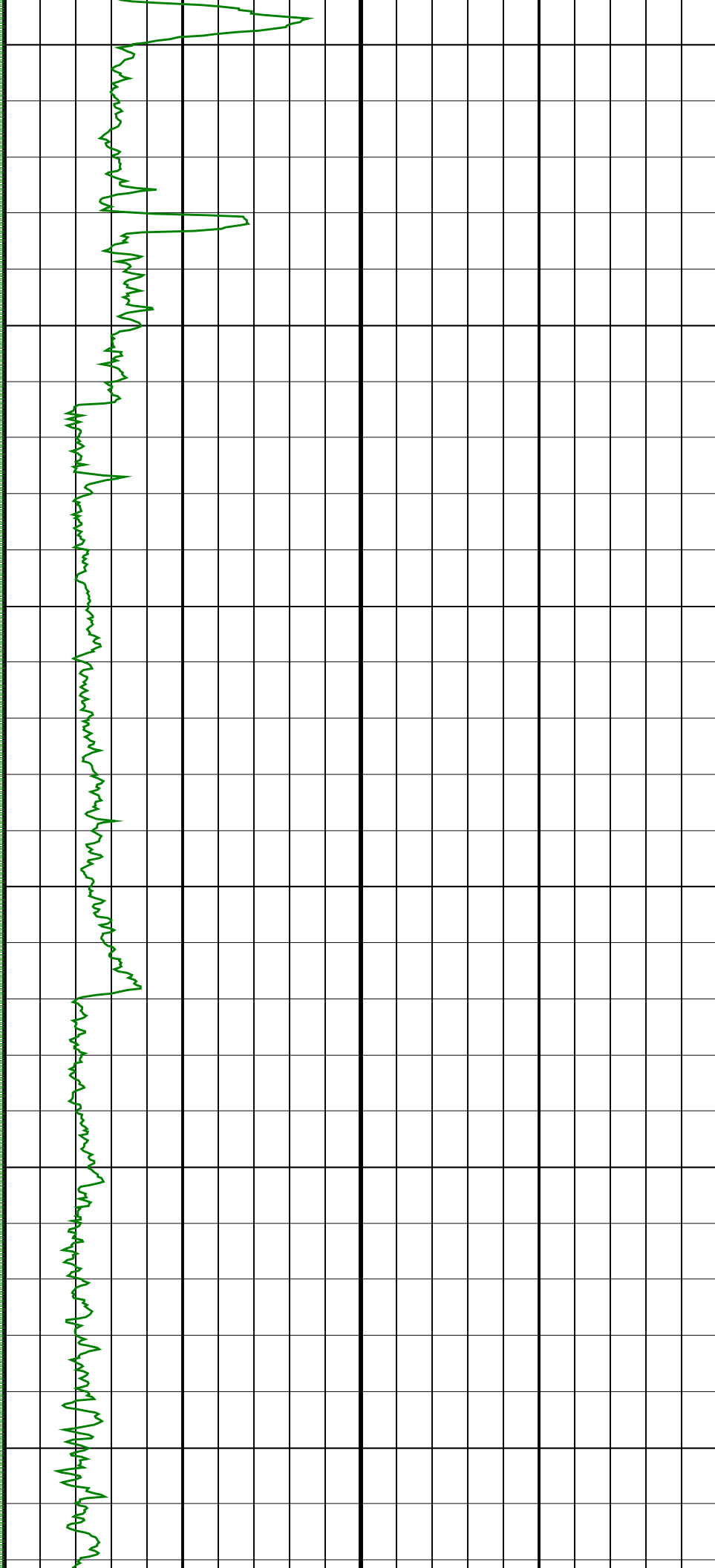


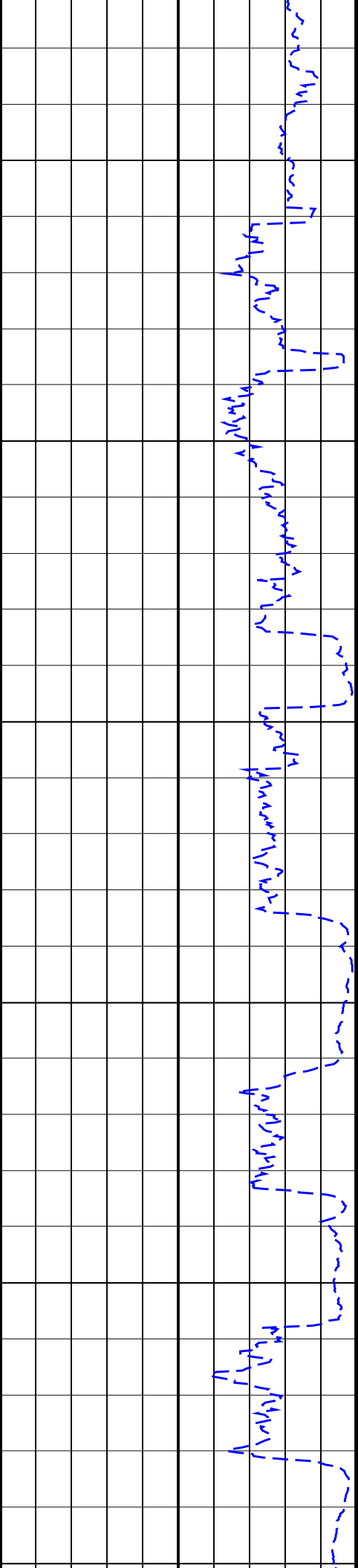


900
TVD

950
TVD

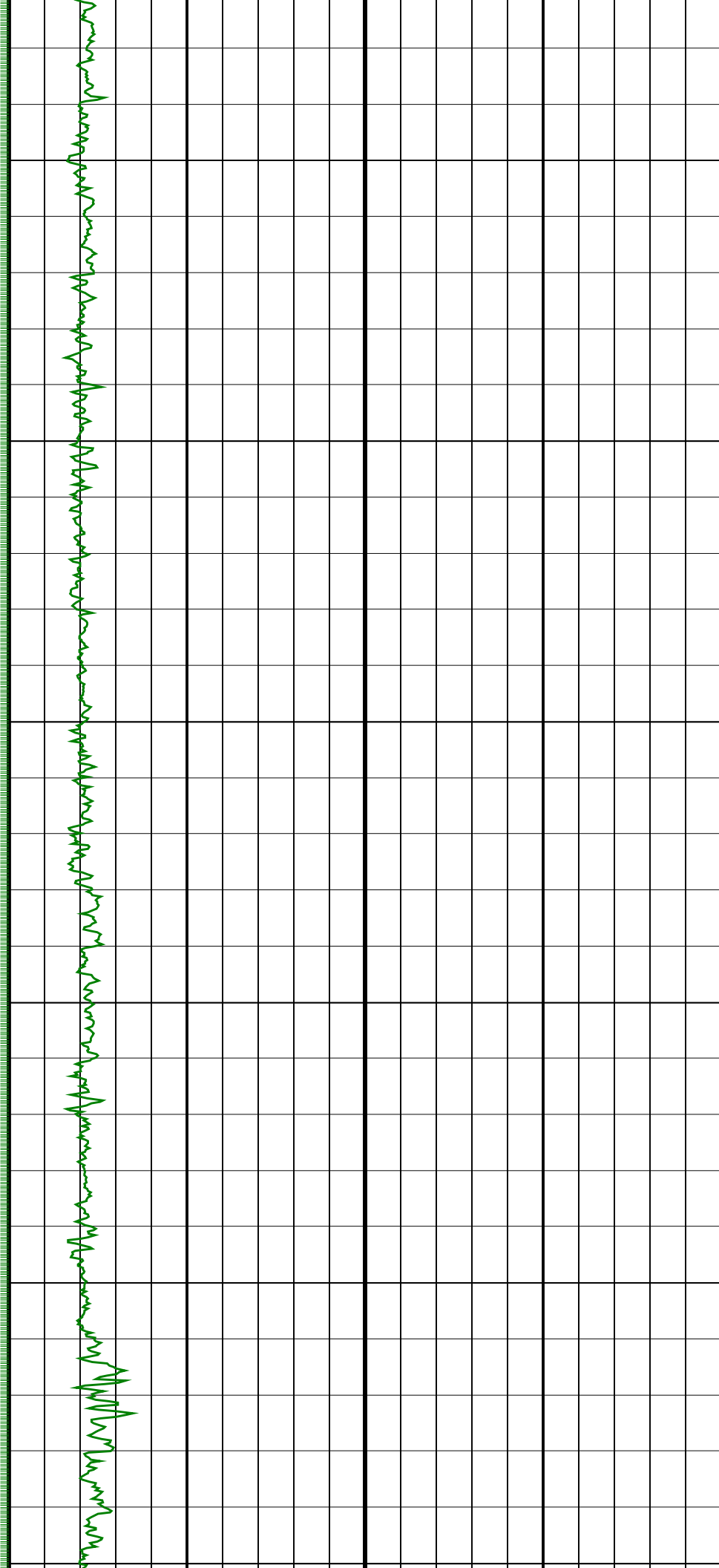
1000
TVD

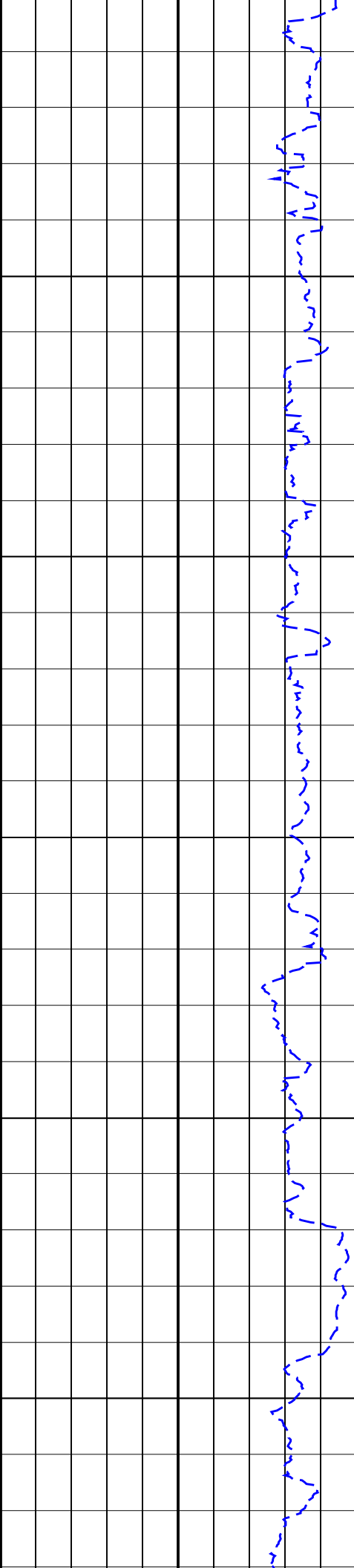




1050
TVD

1100
TVD

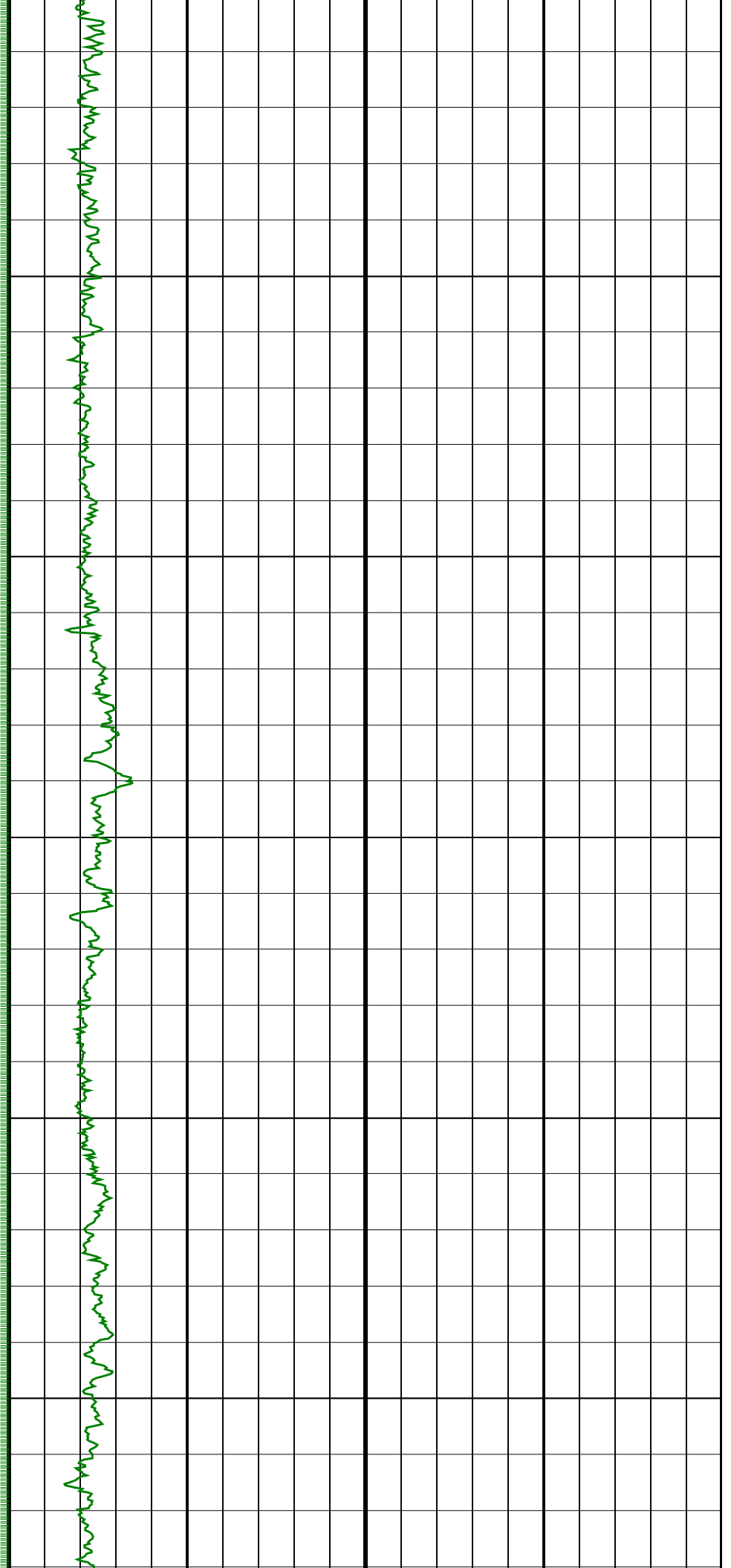


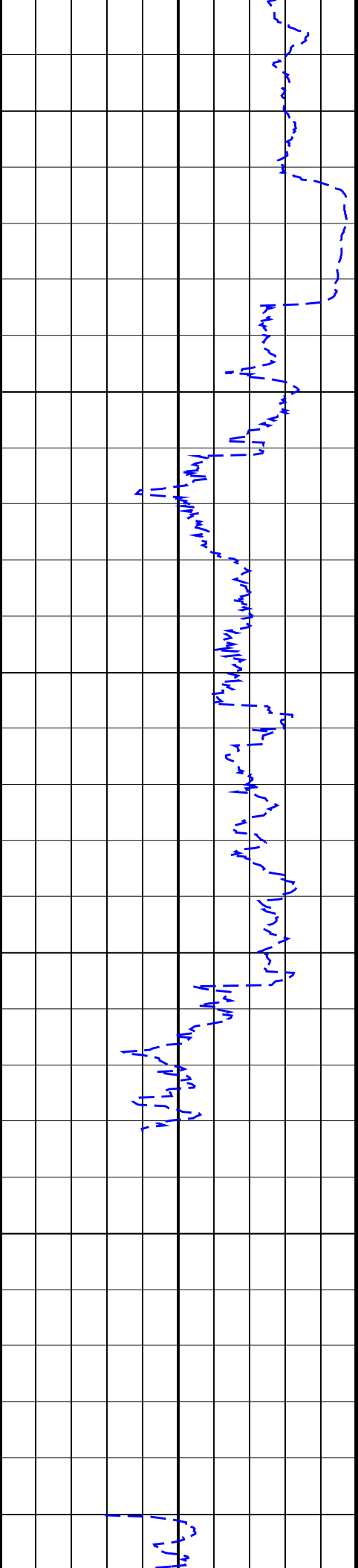


1150
TVD

1200
TVD

1250
TVD

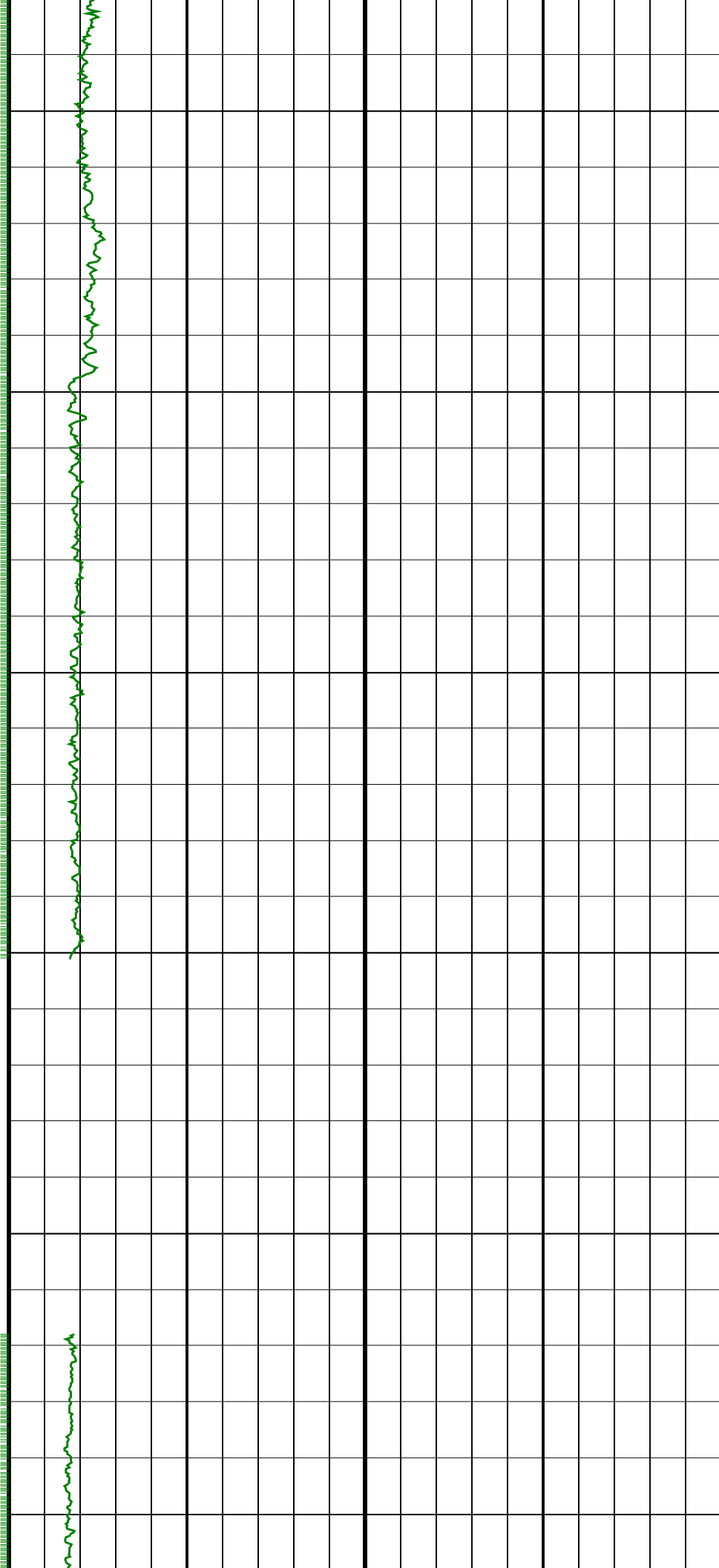


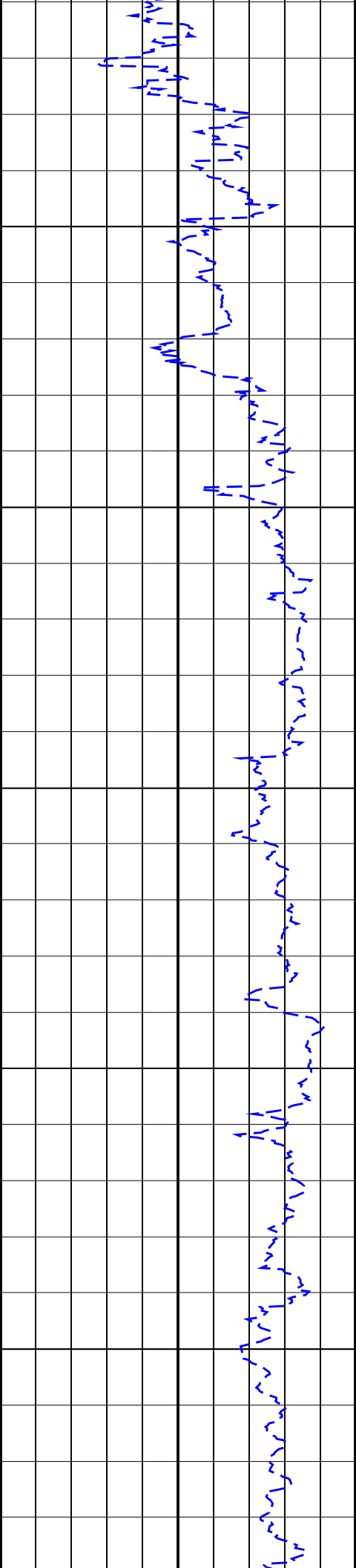


1300
TVD

1350
TVD

1400
TVD

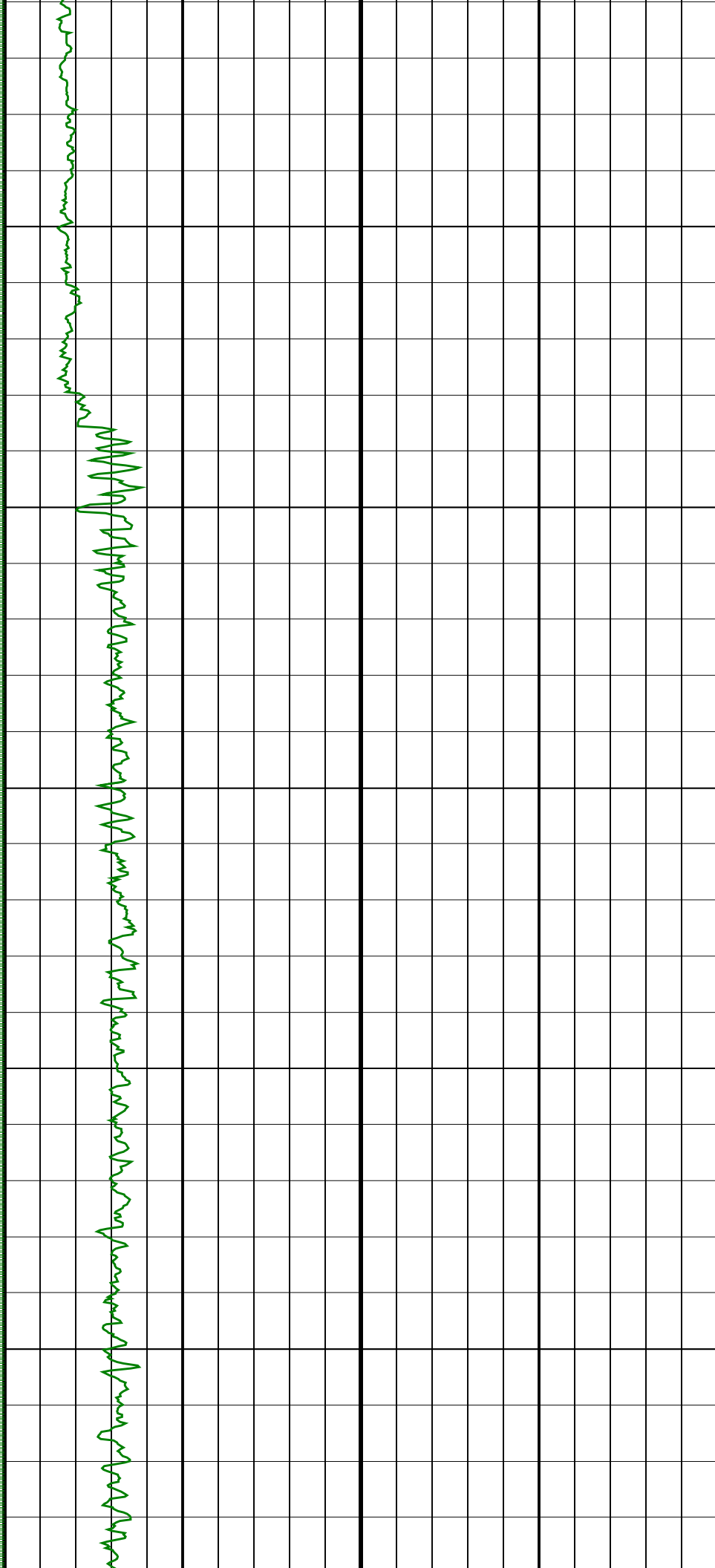


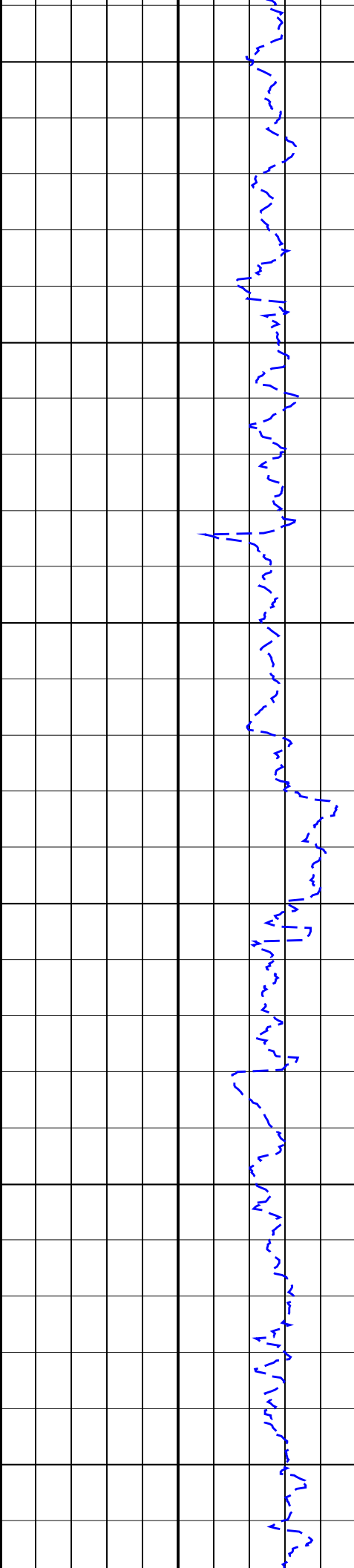


1450
TVD

1500
TVD

1550
TVD

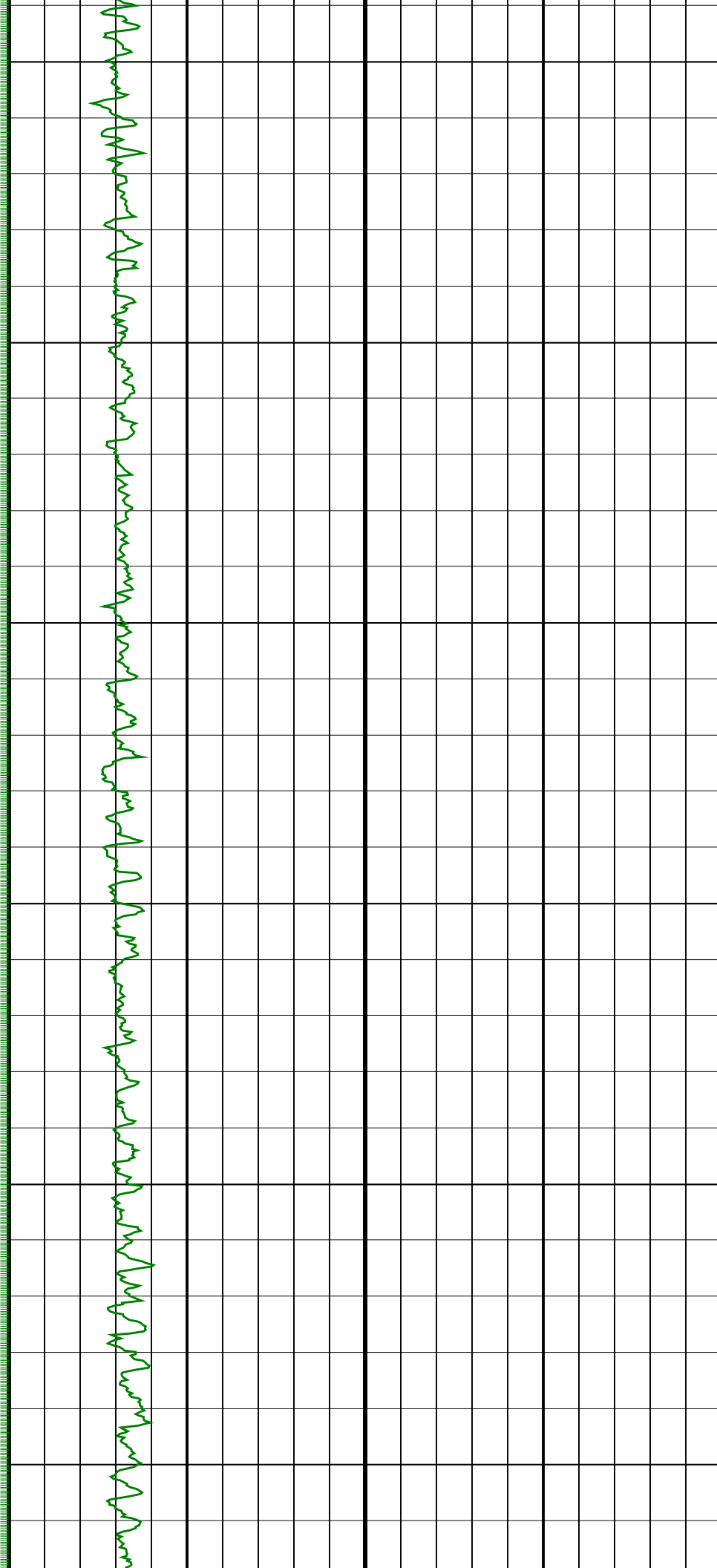


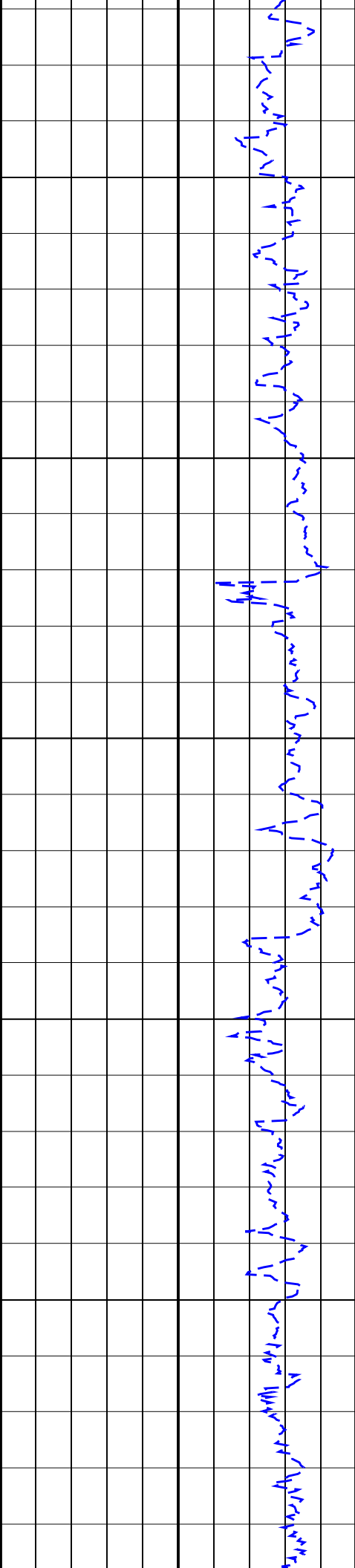


1600
TVD

1650
TVD

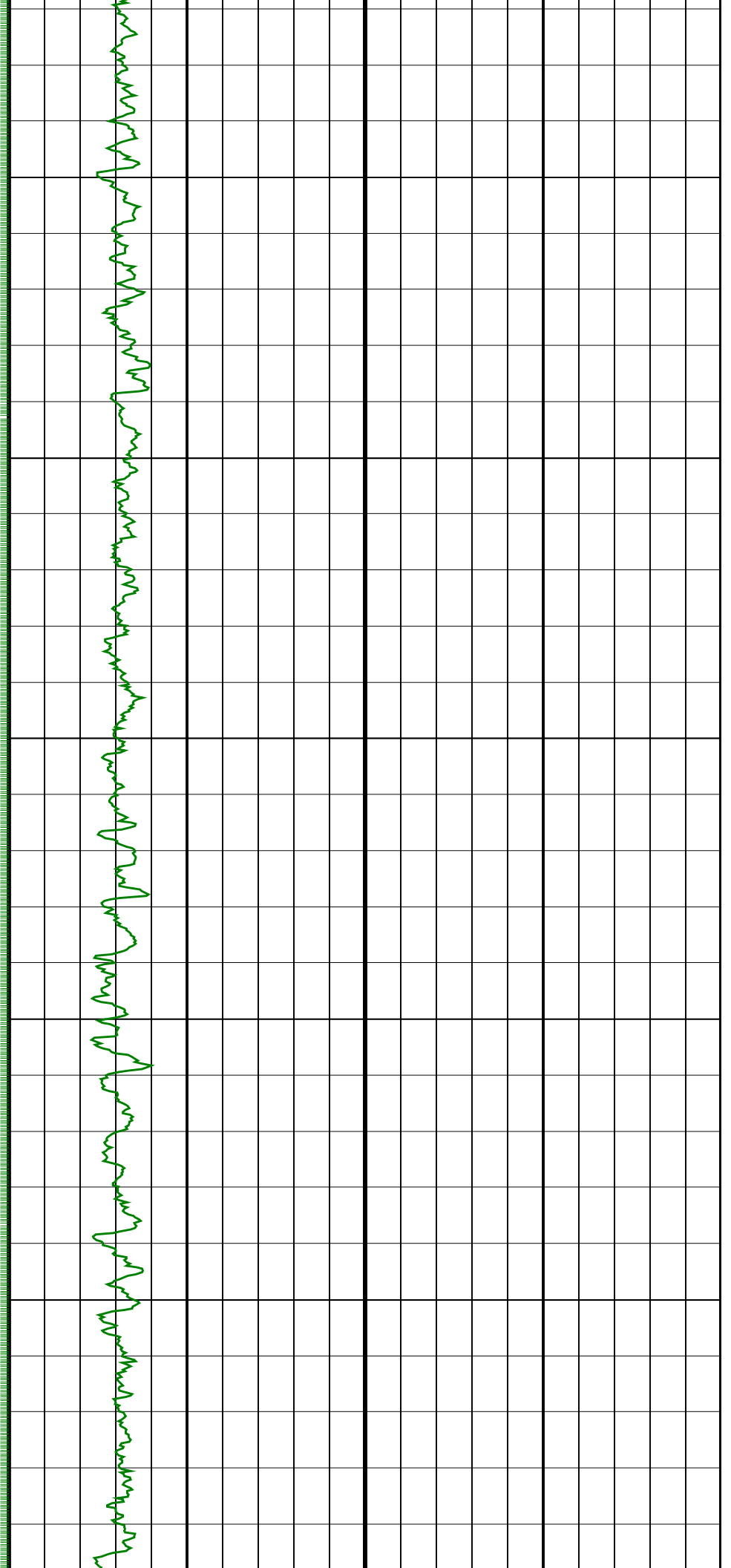
1700
TVD

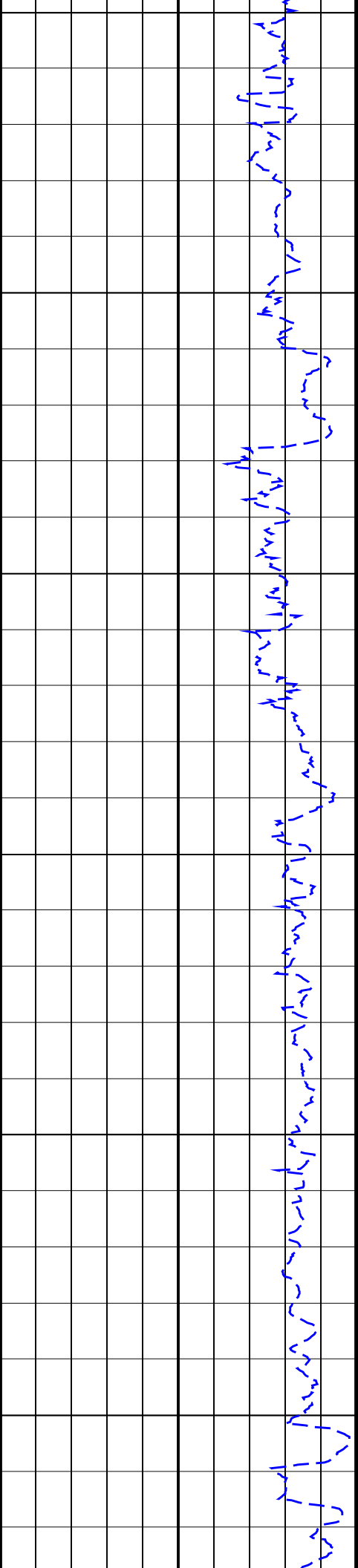




1750
TVD

1800
TVD

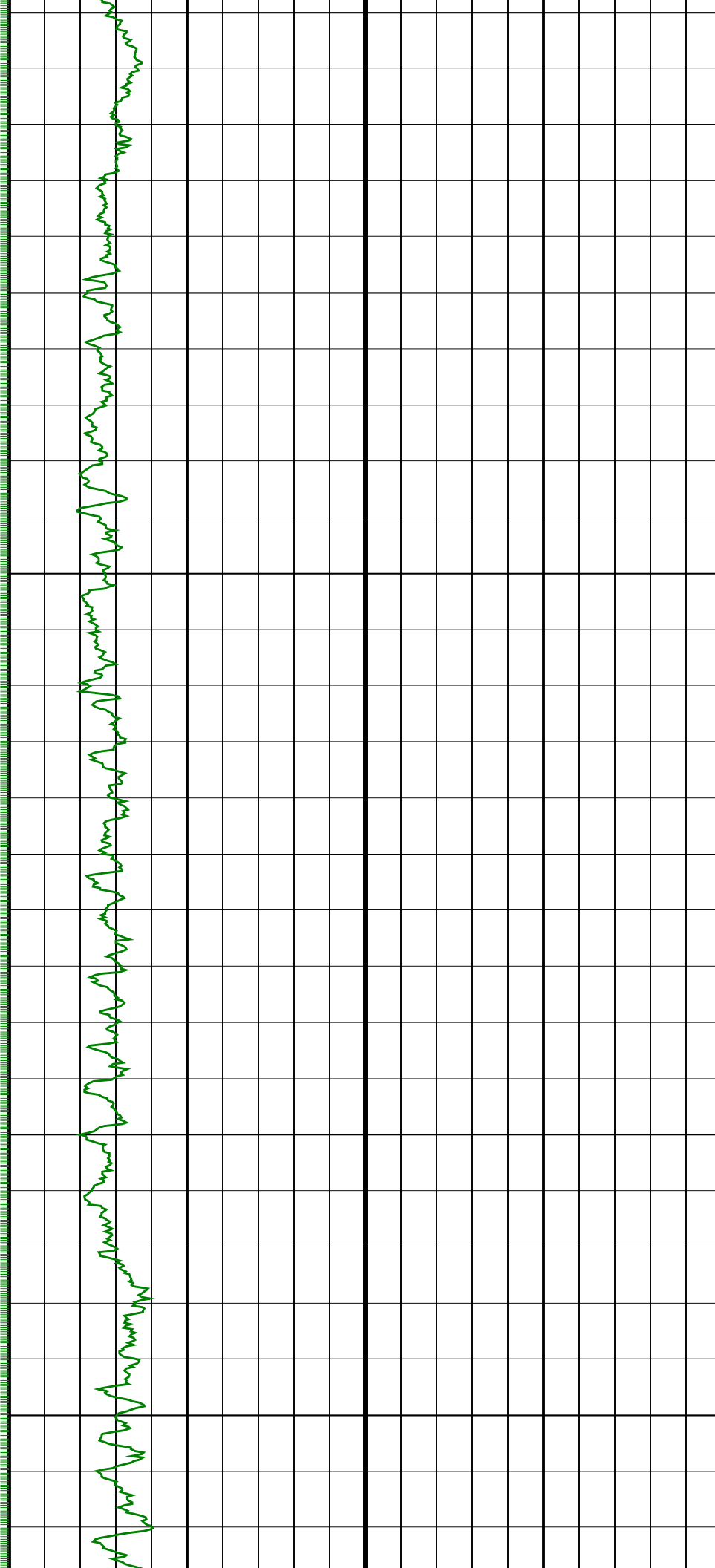


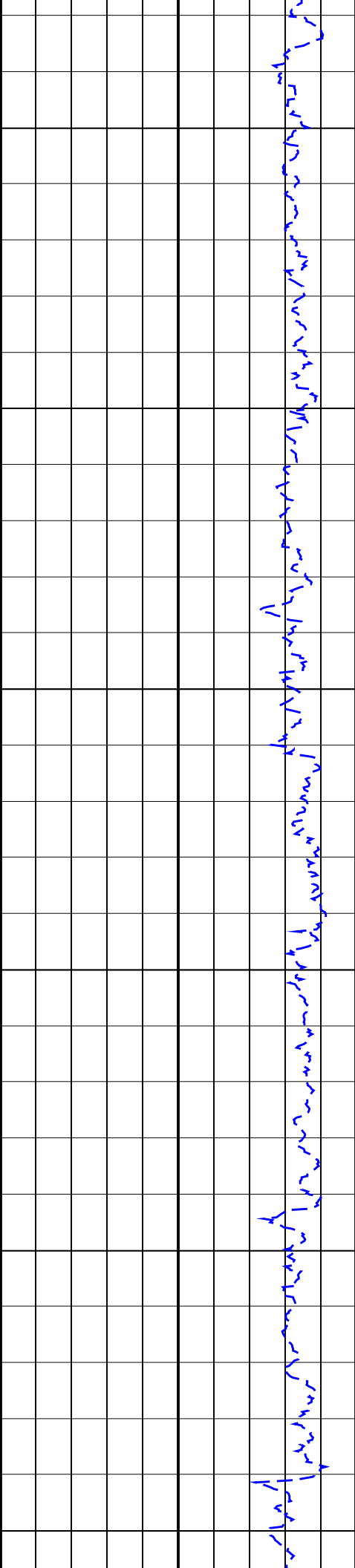


1850
TVD

1900
TVD

1950
TVD

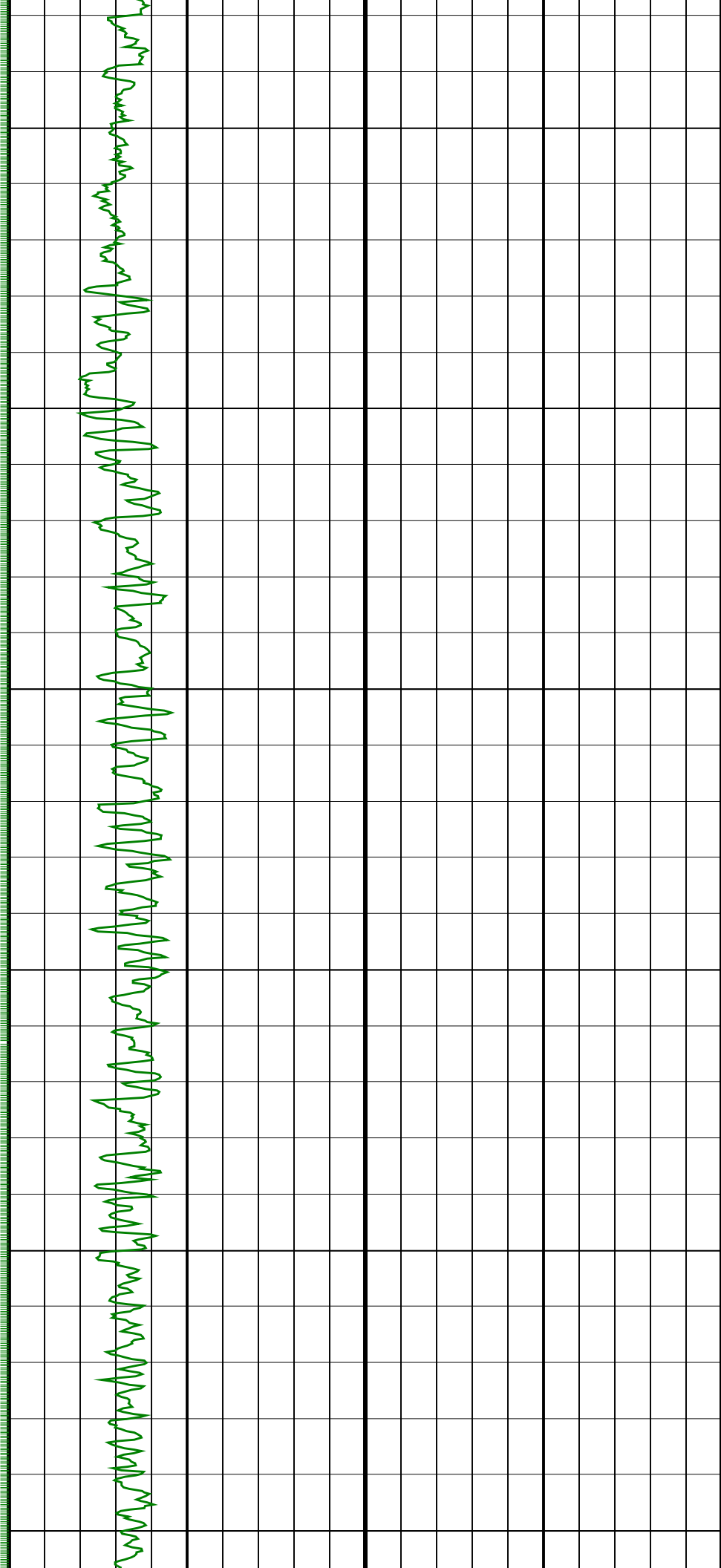


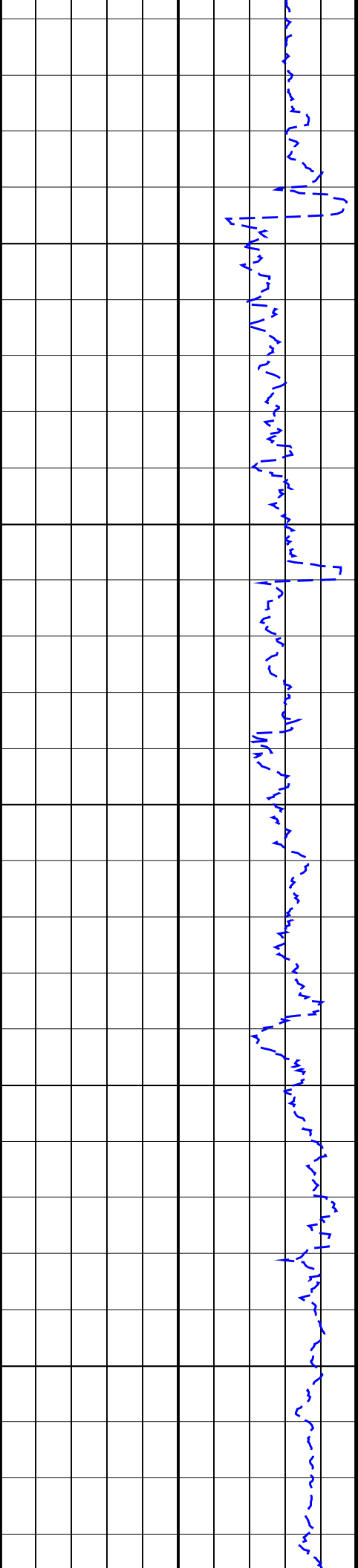


2000
TVD

2050
TVD

2100
TVD

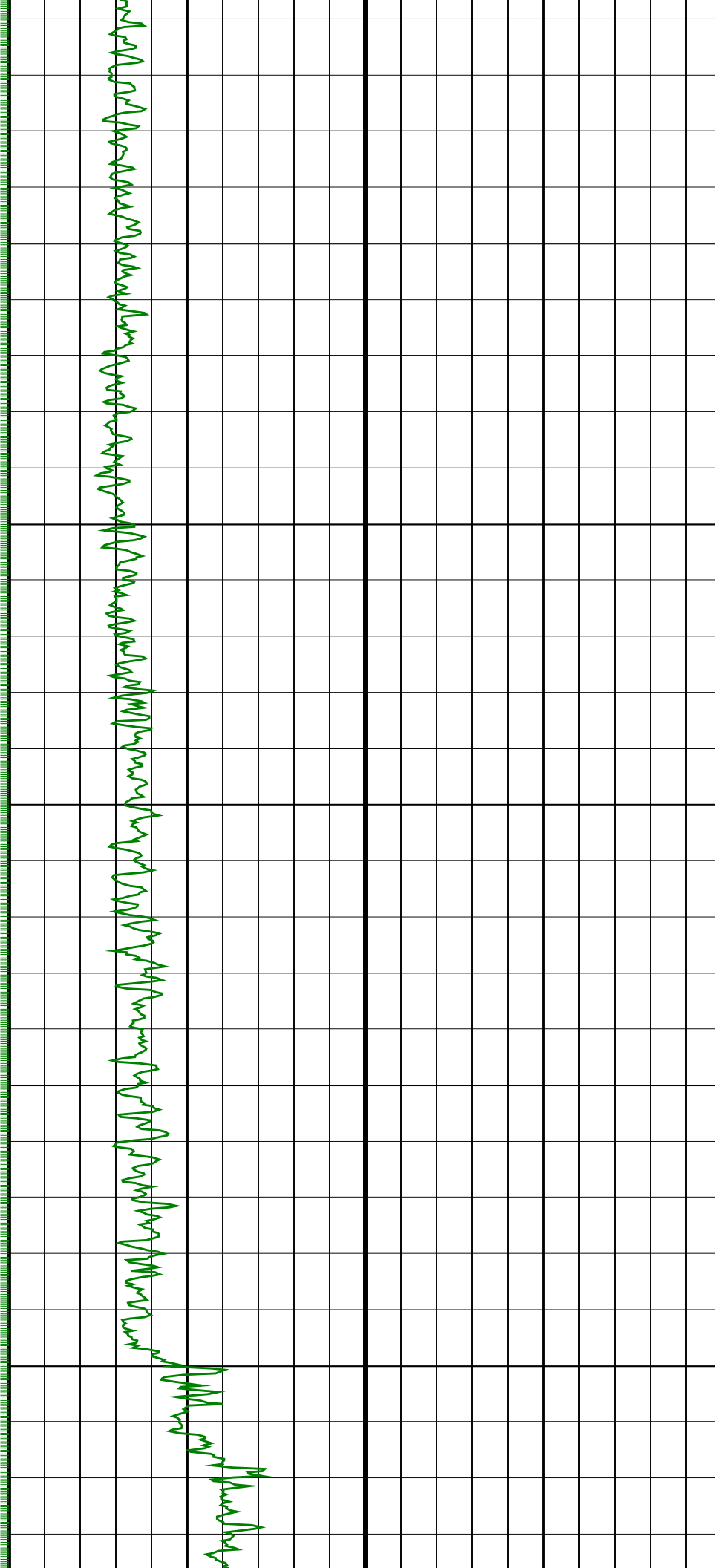


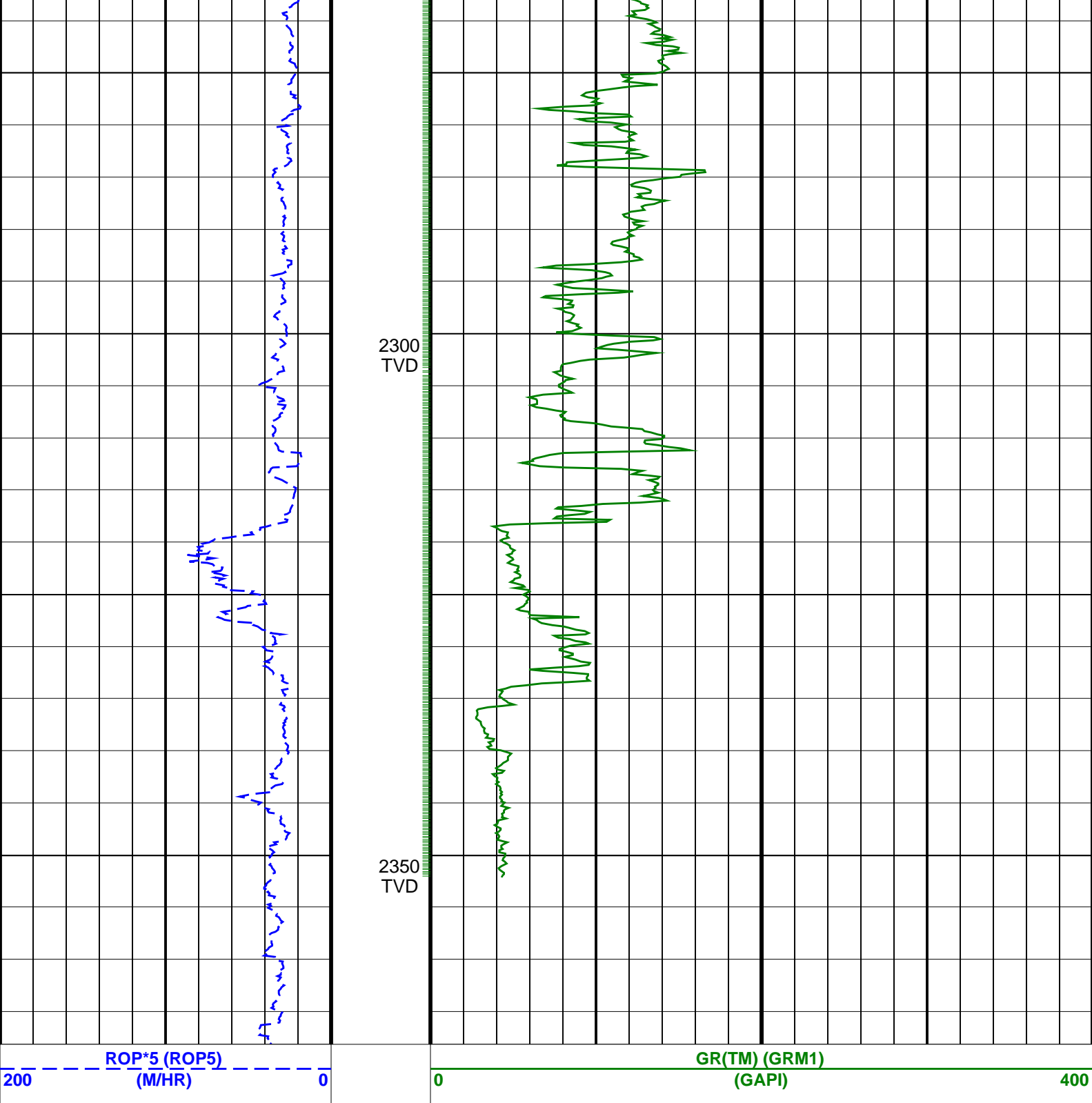


2150
TVD

2200
TVD

2250
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

----- Geomagnetic data -----

Magnetic model.....: BGGM version 2005
Magnetic date.....: 21-Apr-2006

----- 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

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

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SCHLUMBERGER Survey Report

29-Apr-2006 17:34:18

Page 2 of 4

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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SCHLUMBERGER Survey Report

29-Apr-2006 17:34:18

Page 3 of 4

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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SCHLUMBERGER Survey Report

29-Apr-2006 17:34:18

Page 4 of 4

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**

Field Print

State: **Victoria**

**Gamma Ray Service
1:500 True Vertical Depth
Real Time Log**