

Potassium	%	N/A									
Environmental data											
GR											
Mud weight	ppg	10.00									
Bit size	in.	8.5									
Resistivity											
Neutron porosity											
Hole Size											
Mud weight											
Temperature											
Mud salinity											
Formation salinity											
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	A. Basset	J. McKinnon	B. Steel								
Schlumberger D&M Personnel	J. Dolan	R. Burns	C. Soper	L. Muskett							

<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 RUN5 Directional Drilling Directional Surveys	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 5 8-1/2 in. hole was drilled from 1505.0m to 2294.0m MD. Depth is referenced to Driller's Depth. All data presented is from Real-time transmission. Enviromental Corrections: – Gamma Ray was corrected for mud weight, tool and bit size.	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

EQUIPMENT DESCRIPTION		
RUN5	RUN	RUN
DOWNHOLE EQUIPMENT		

23.54

MDC: V875
MEC: 1542BB
MDI: 1559CA
MGR: 295 AA
DHS: V8.0 C00

D&I	—	19.18
GR	—	18.53

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

15.03

6-1/2 in. NM Pony
S/N: 9612058

13.63

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


11.19

7 in. PowerPak* Motor

9.20

A700GT 7:8
S/N: N7268
1.5 deg. Bent Housing
3-3/8 in. Motor Sleeve

GeoDiamond PDC Bit
OD: 8-1/2 in.
S73PX S/N: JT6968

 — 0.00 0.22

Maximum string diameter 8.50 in.

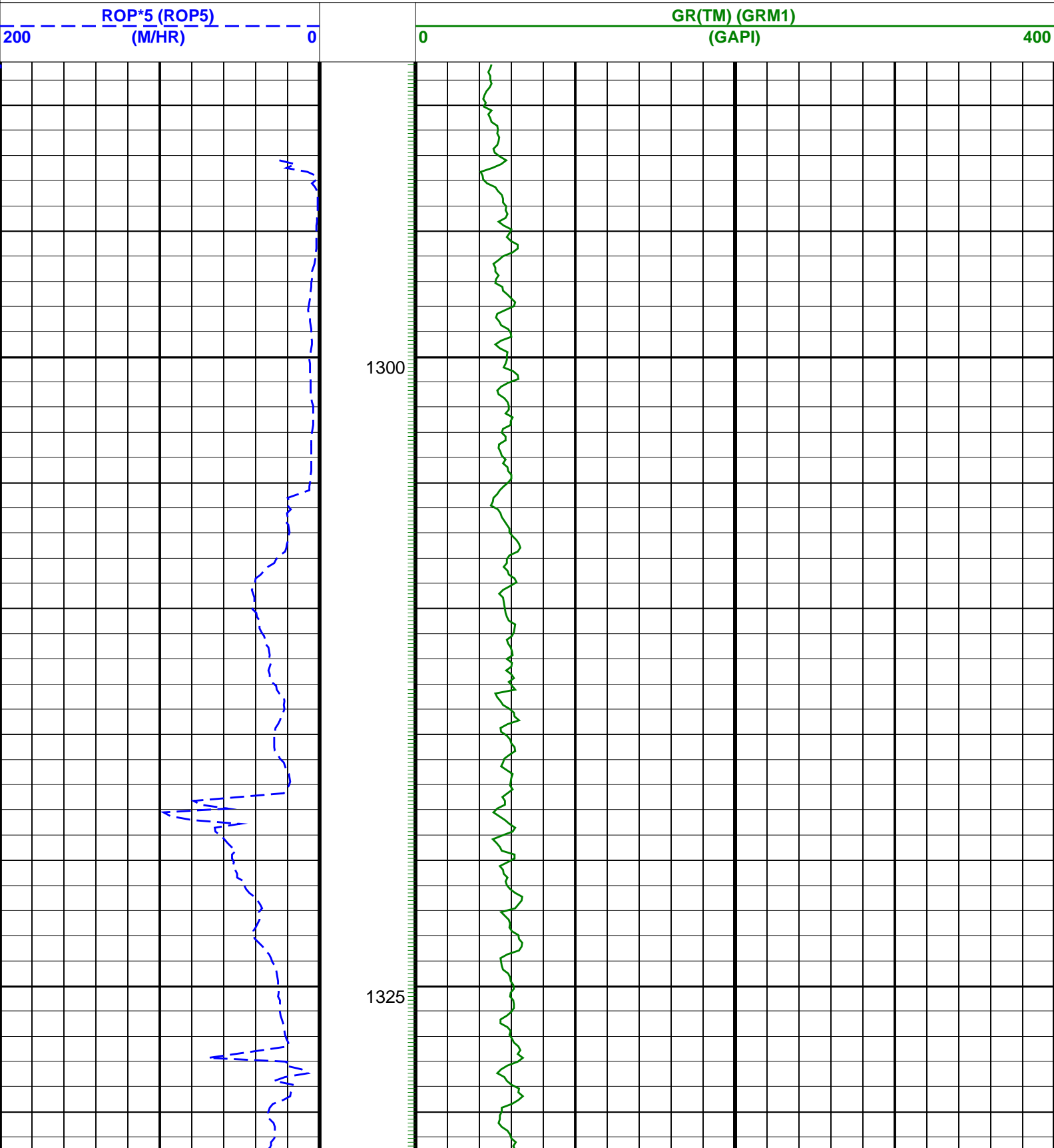
All lengths in Meters

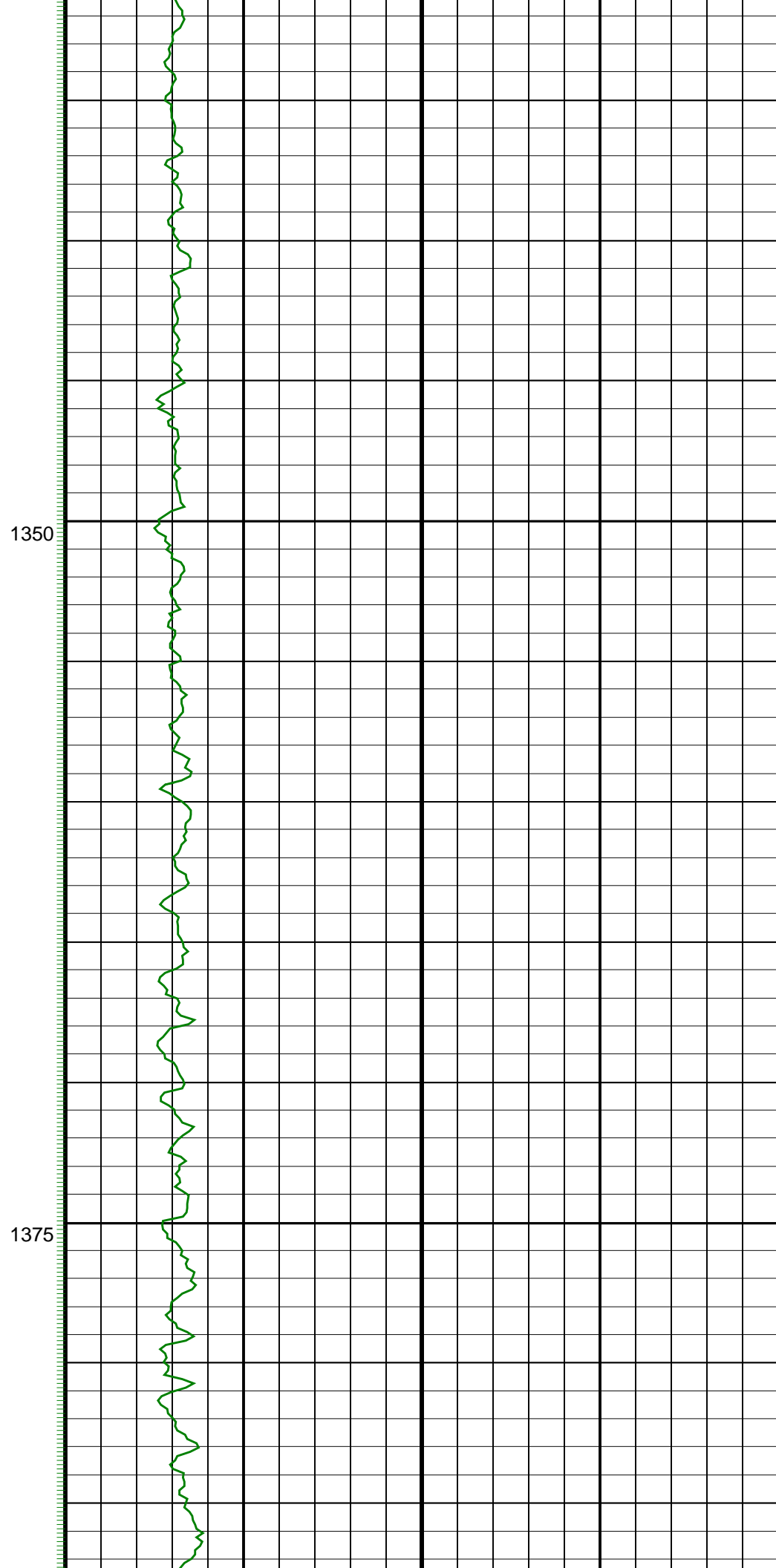
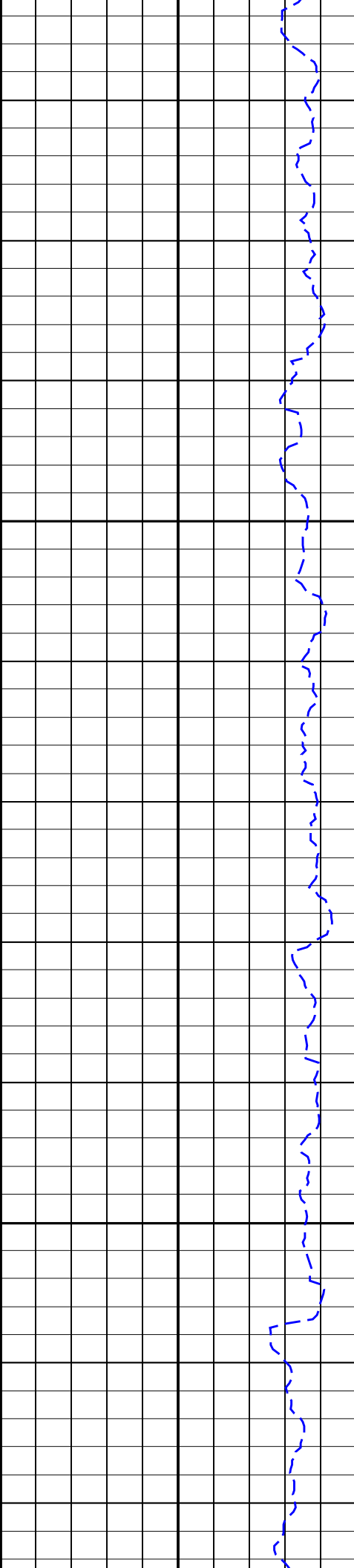
BMA A1A RT 200TVD

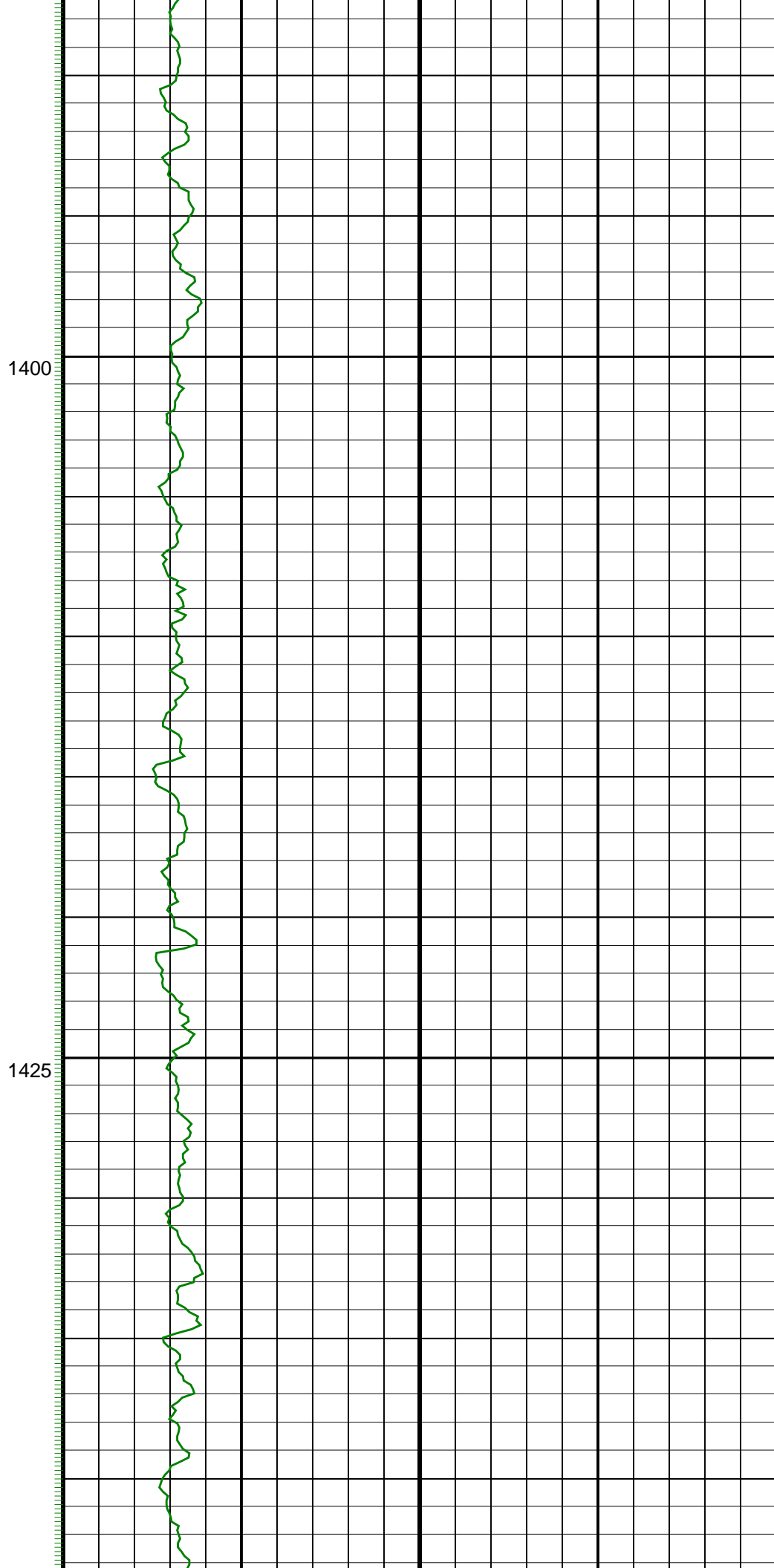
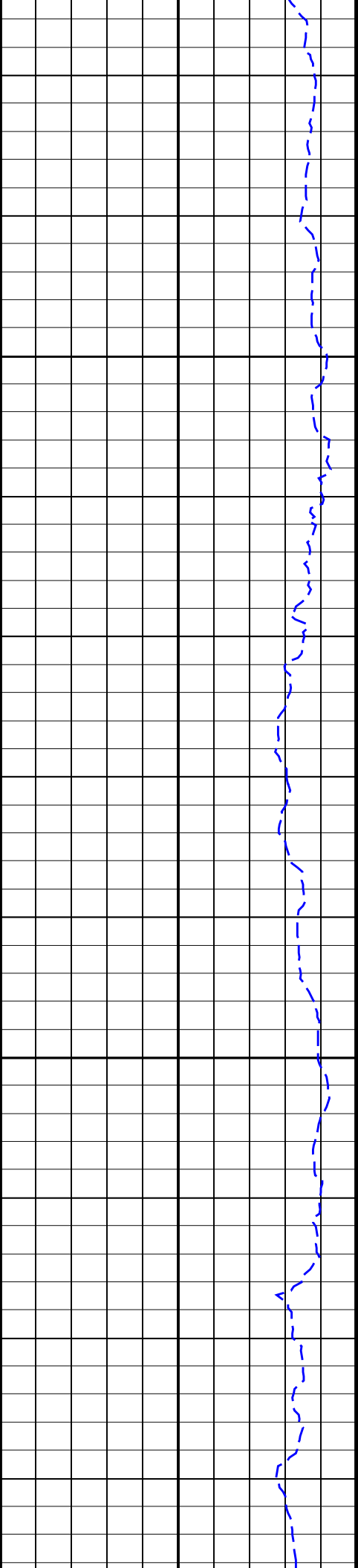
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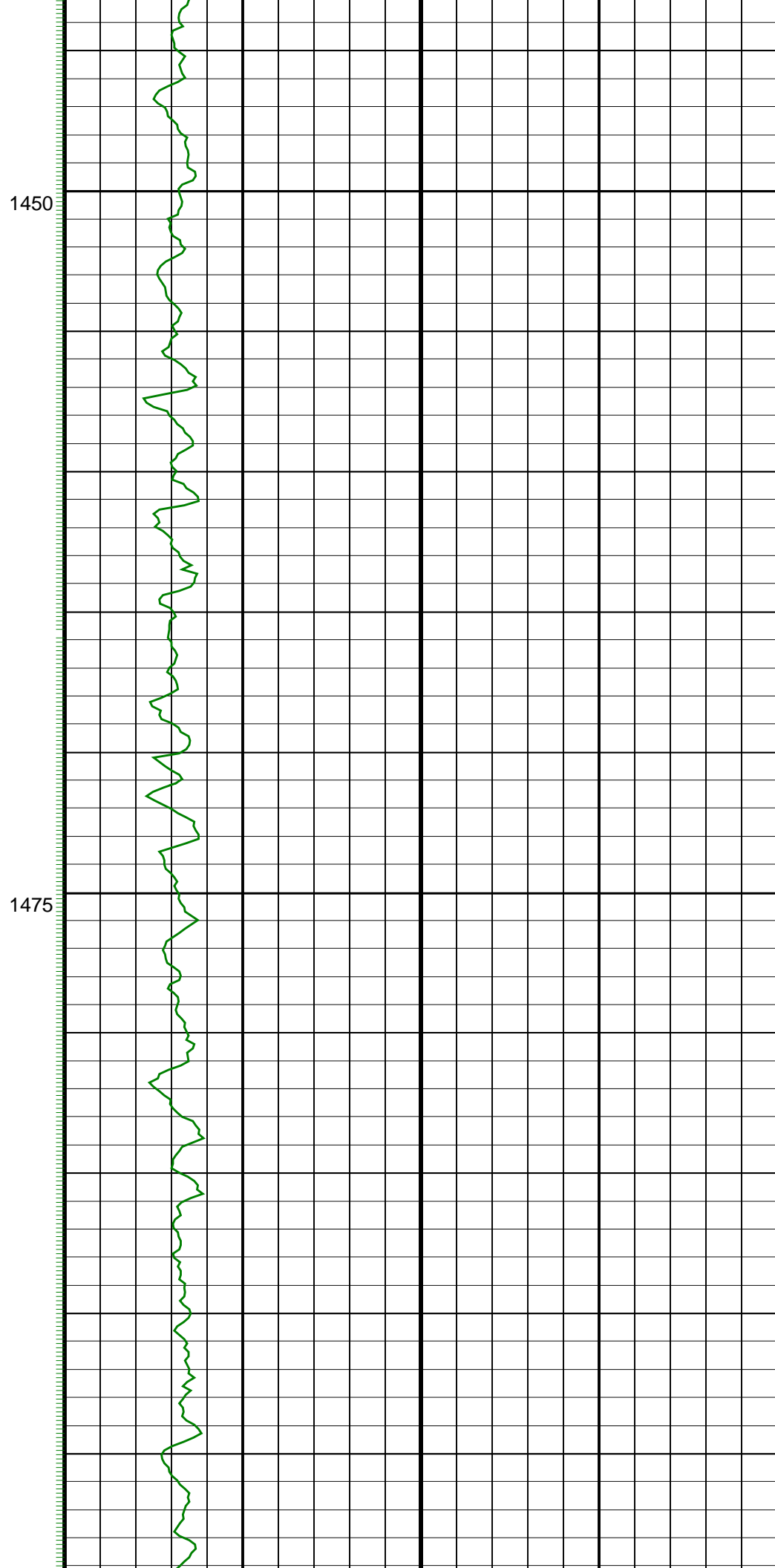
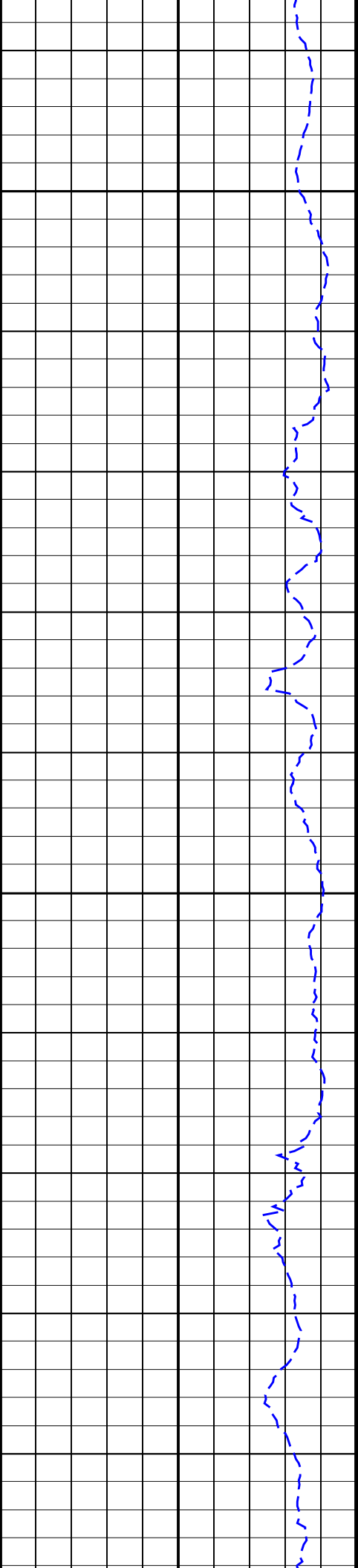
PIP SUMMARY

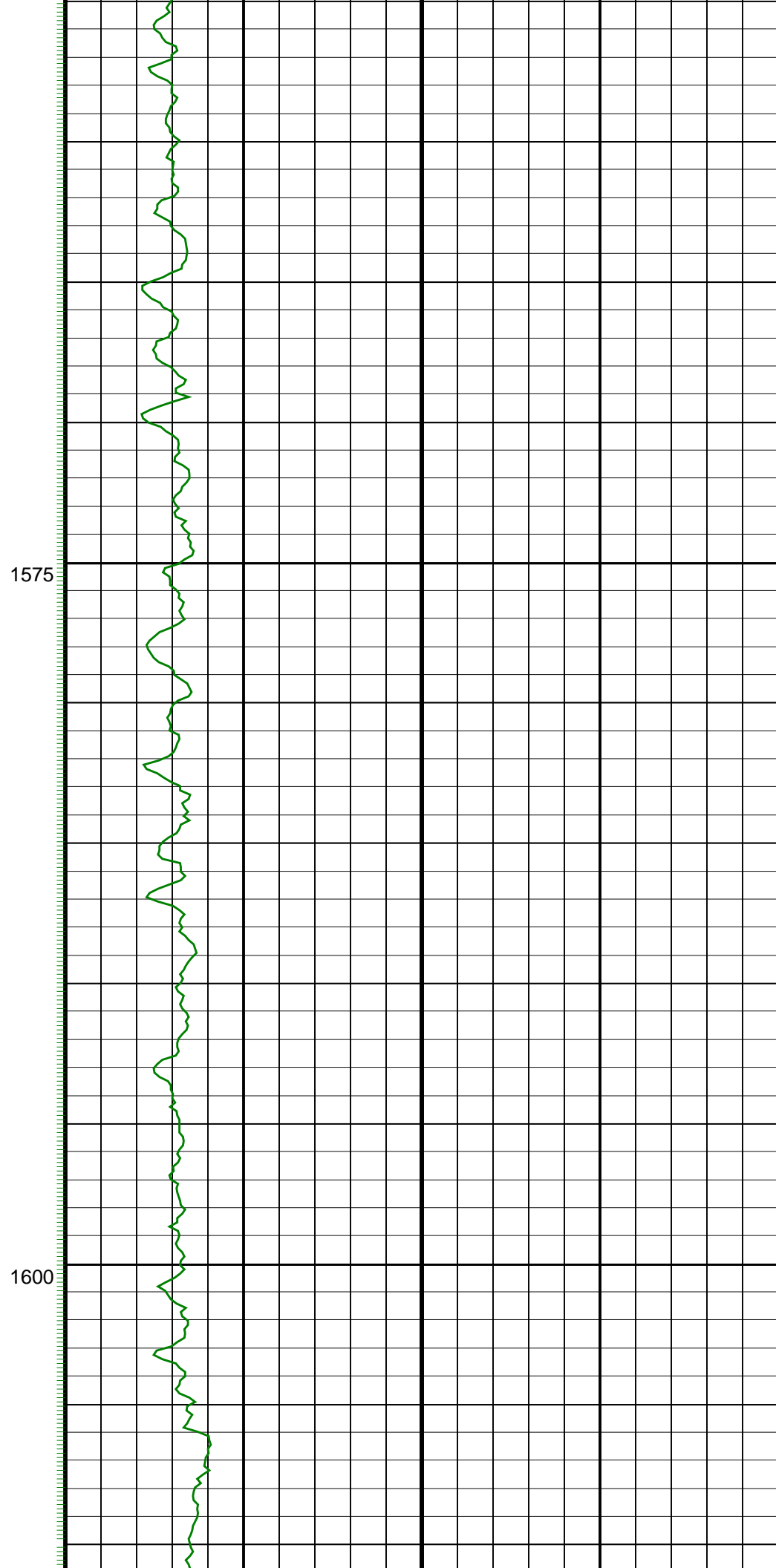
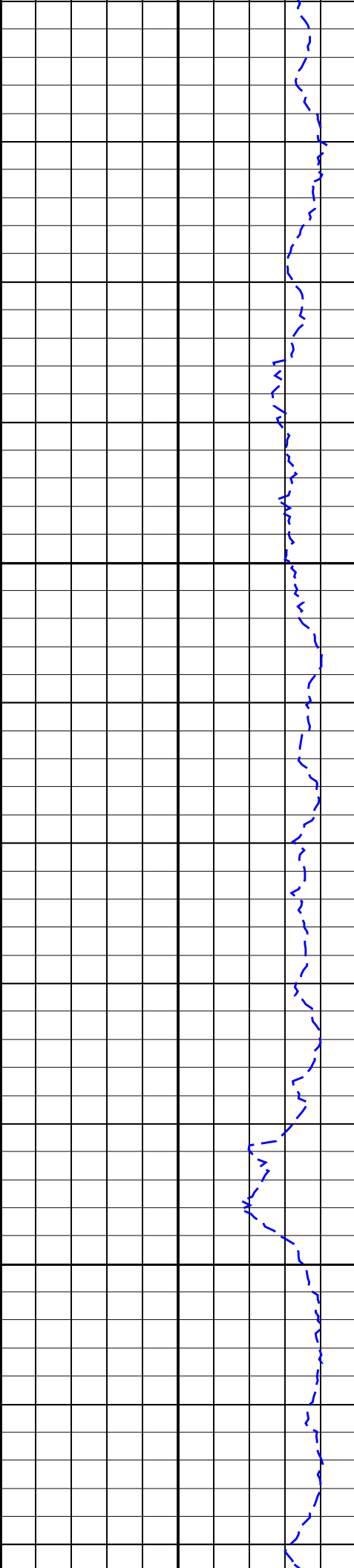
GR(TM) PIP

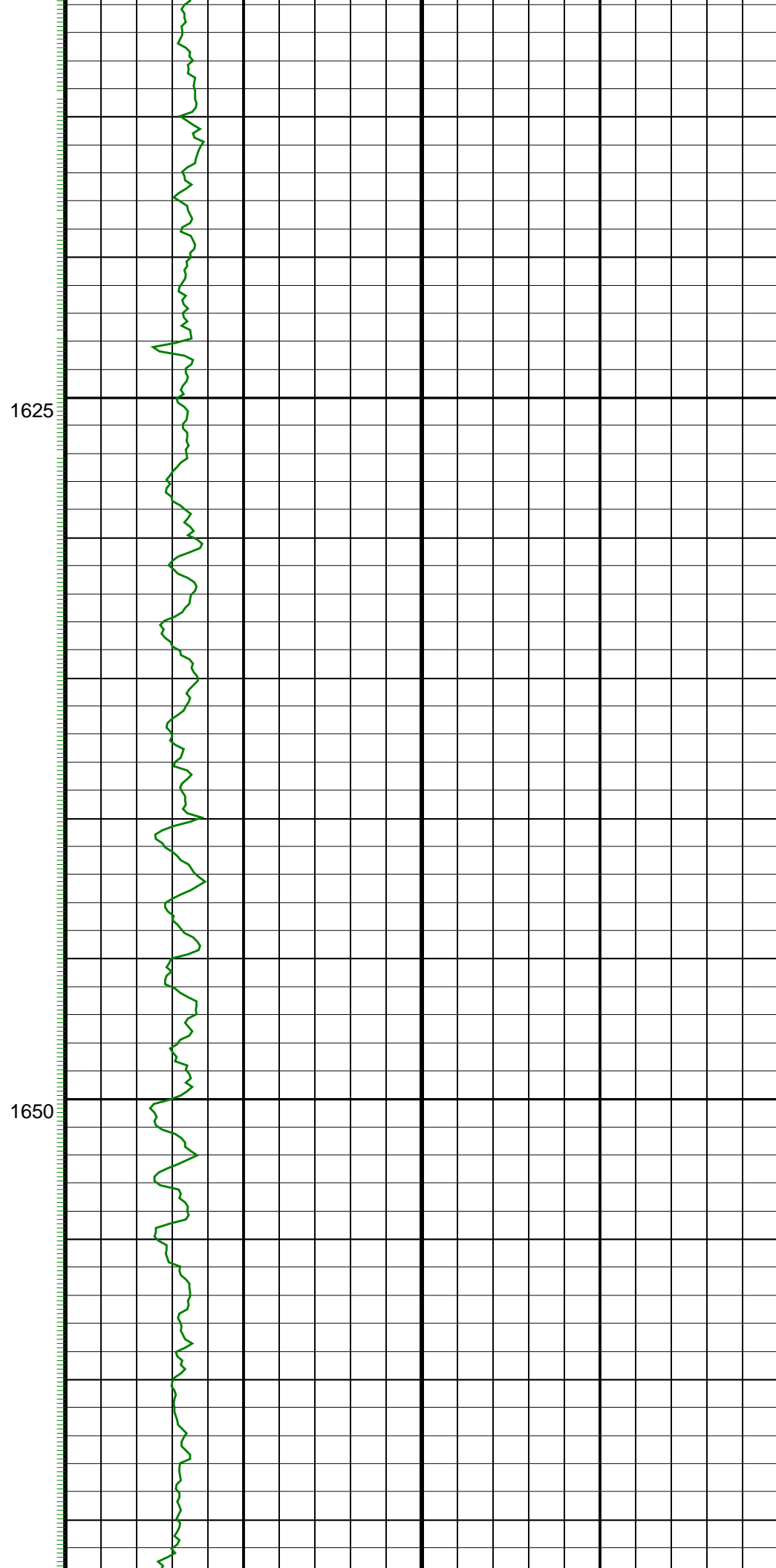
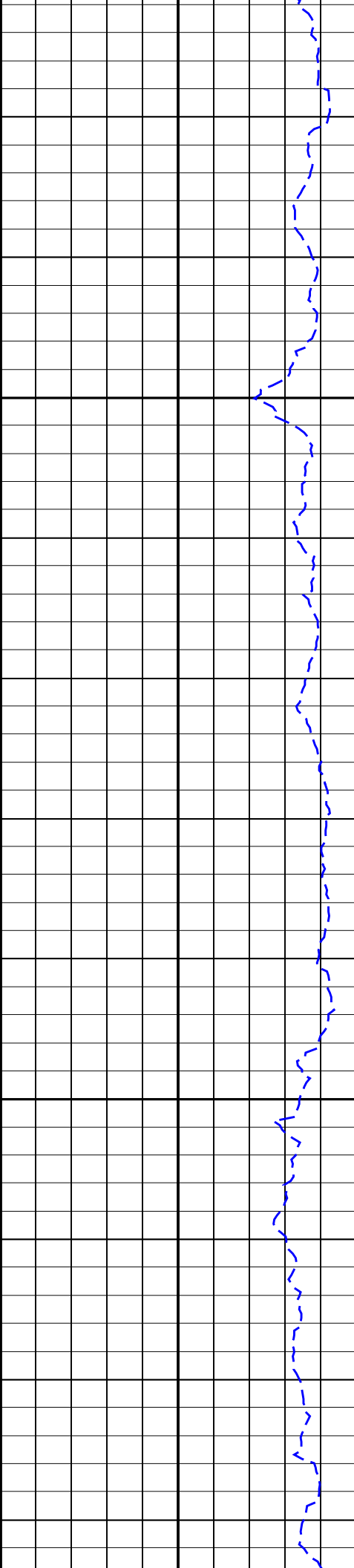


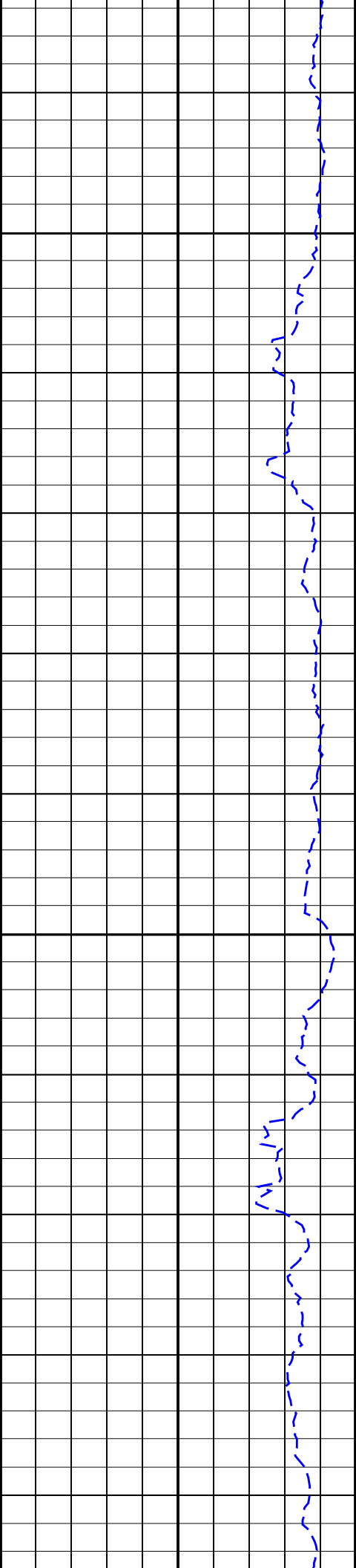






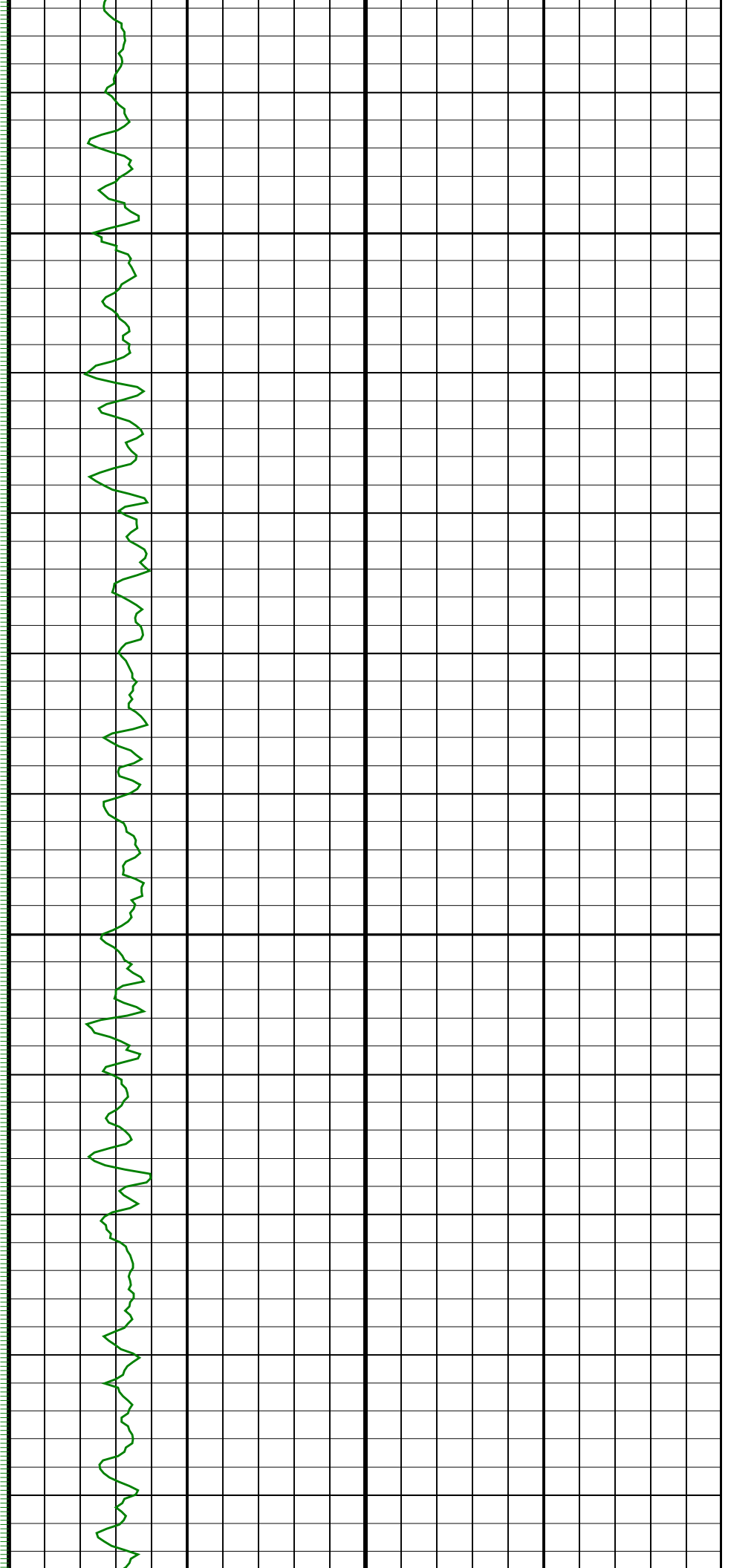


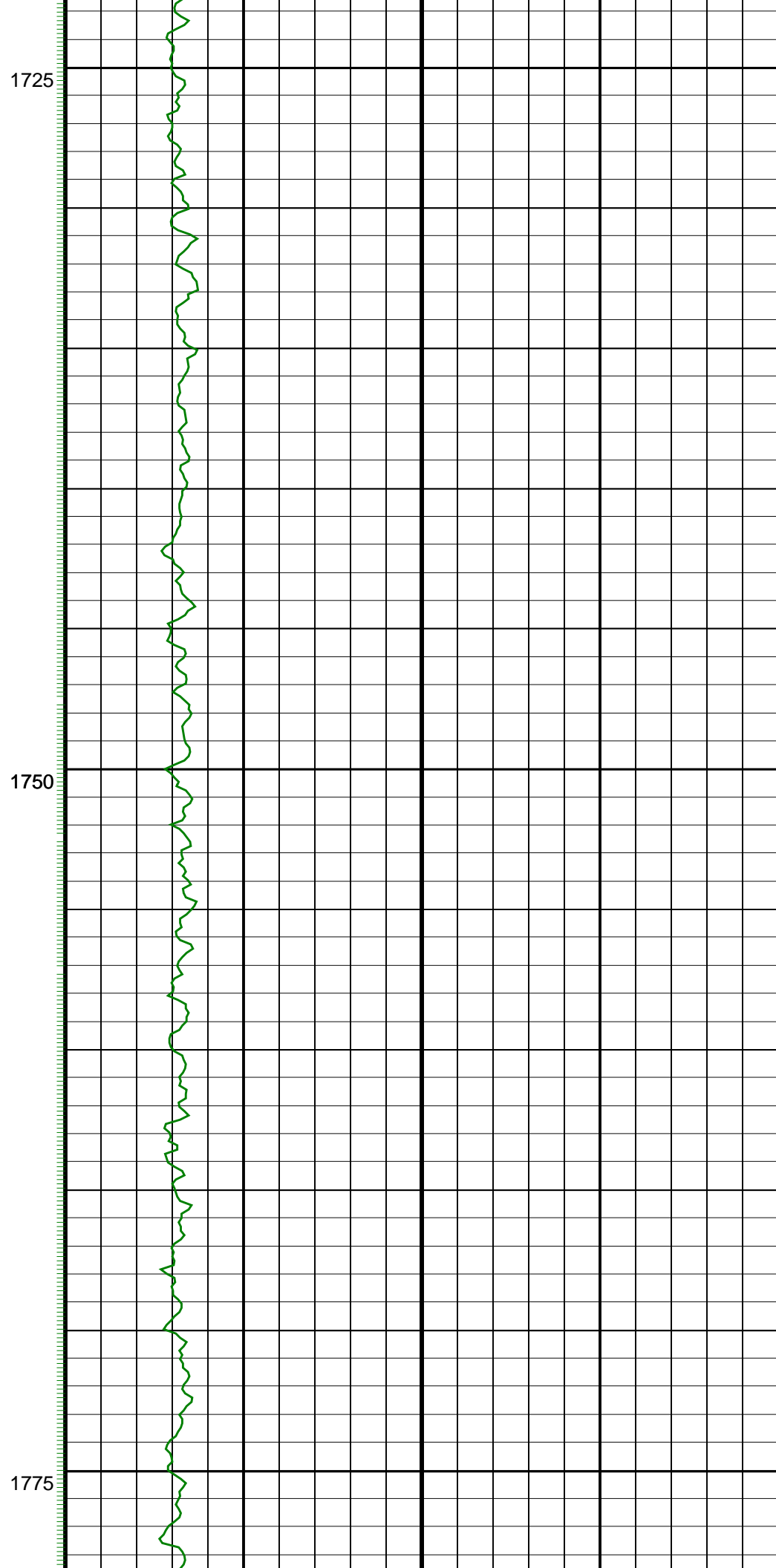
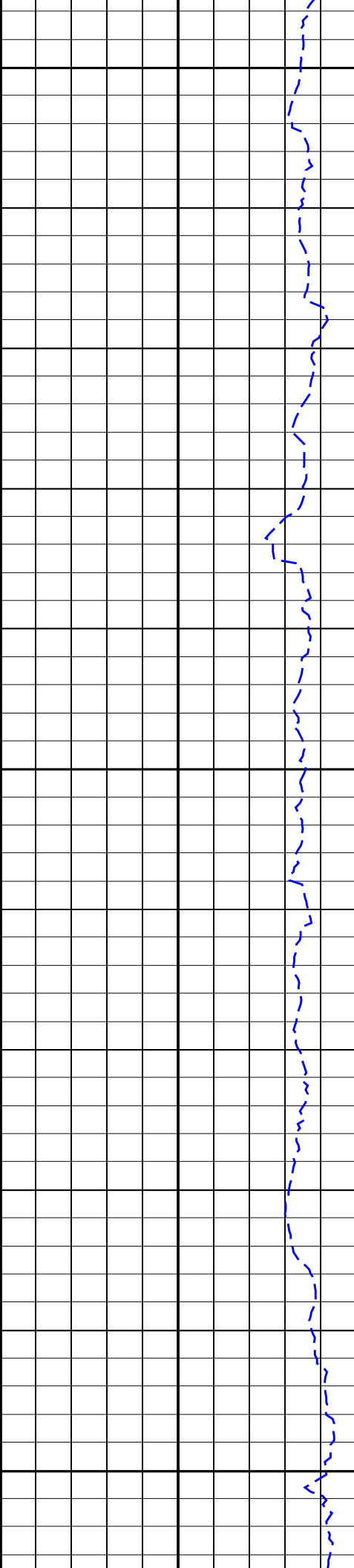


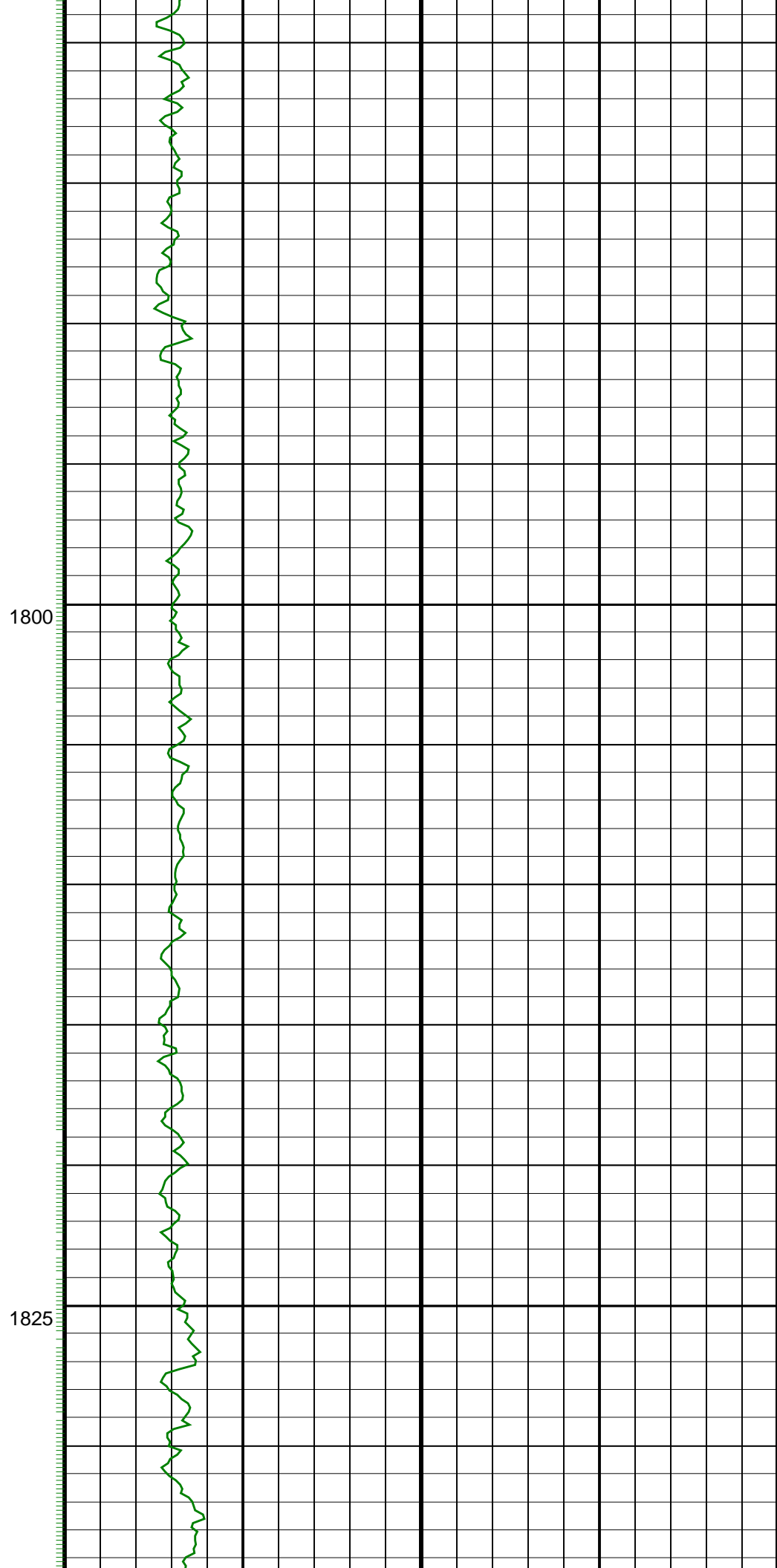
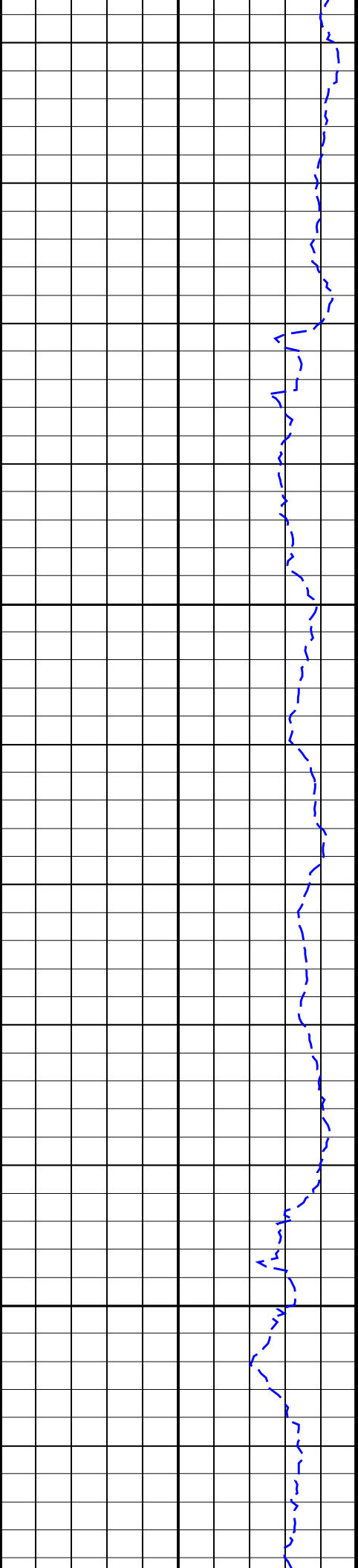


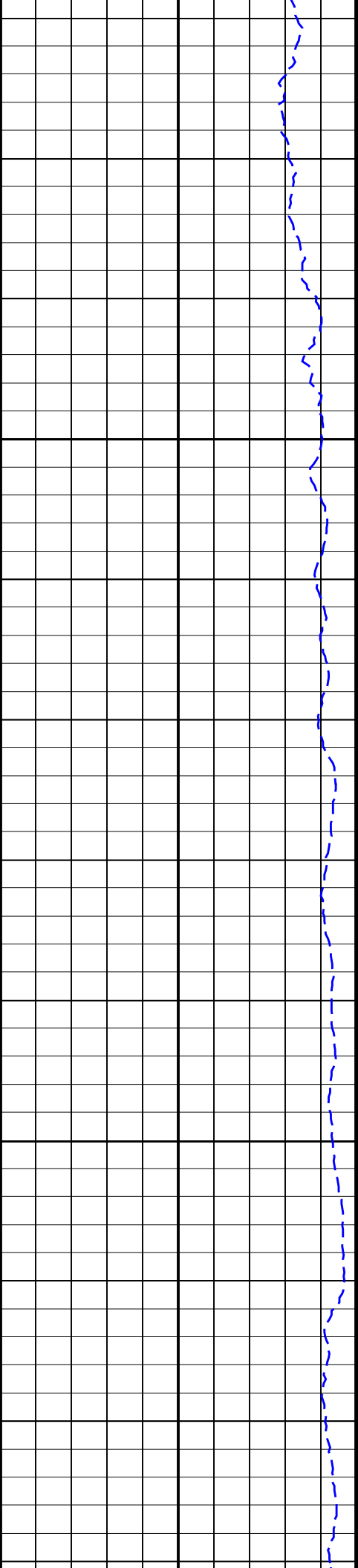
1675

1700



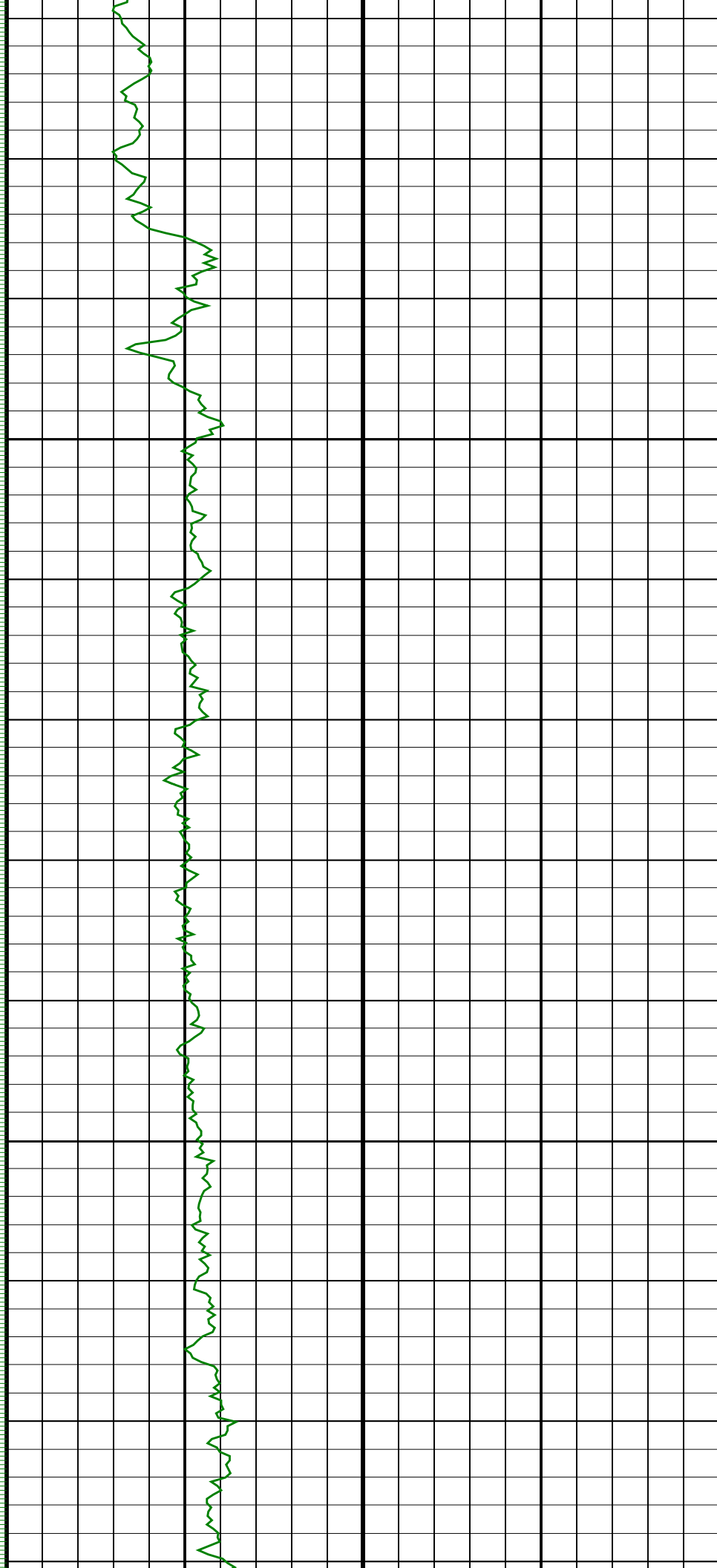


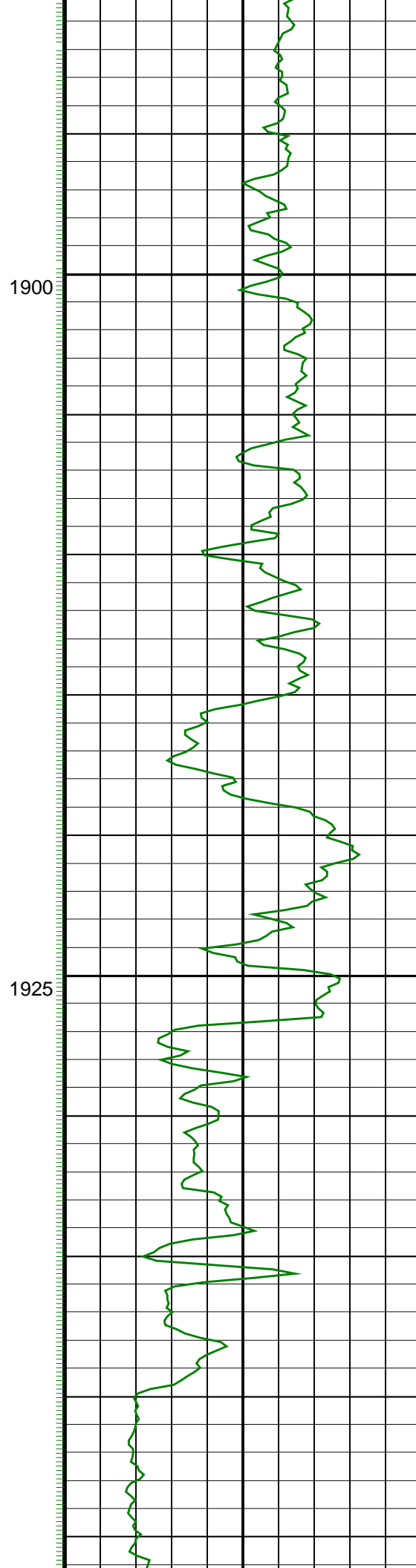
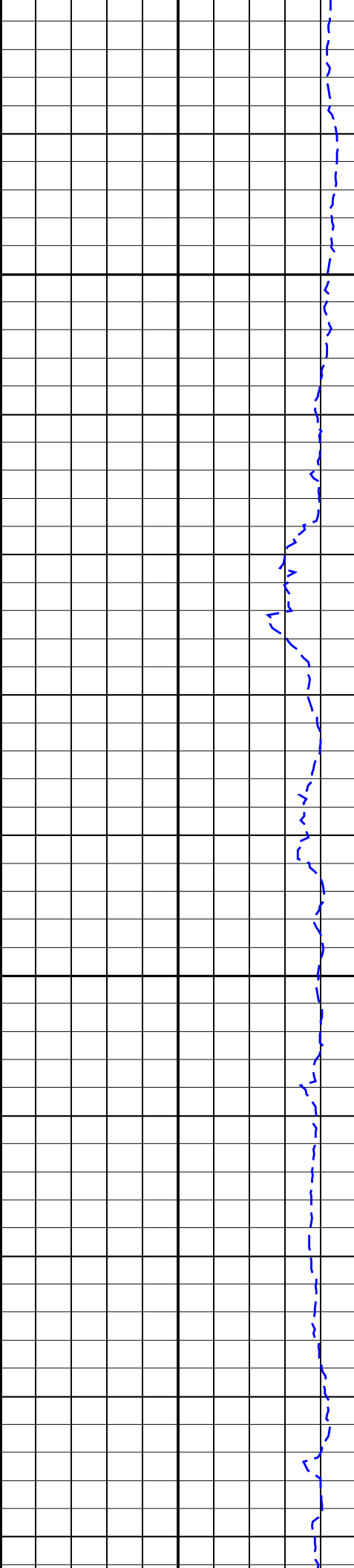


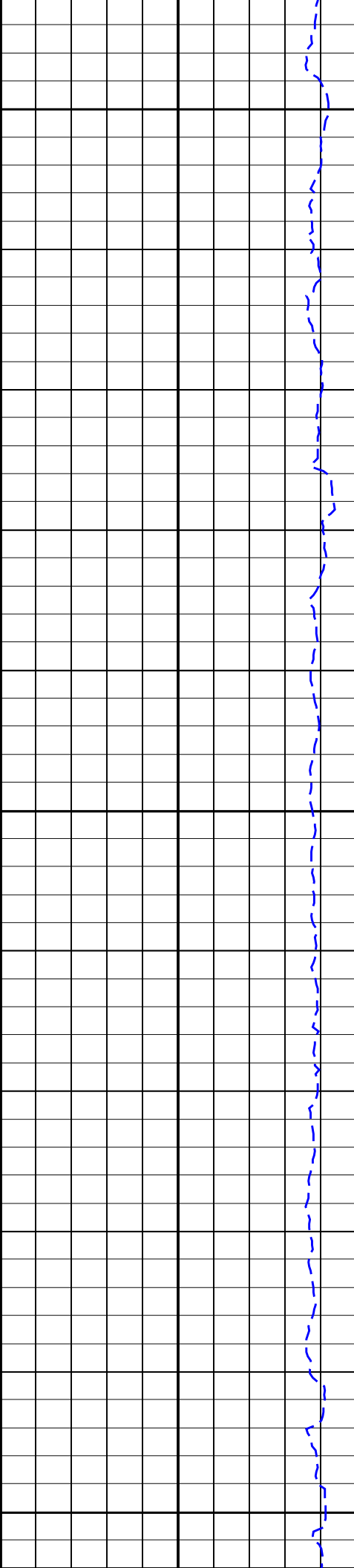


1850

1875



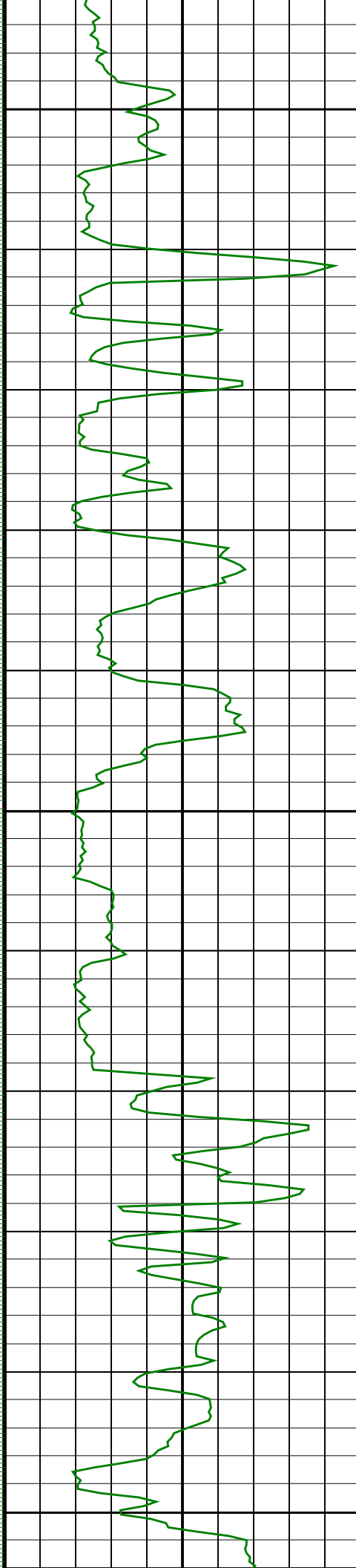


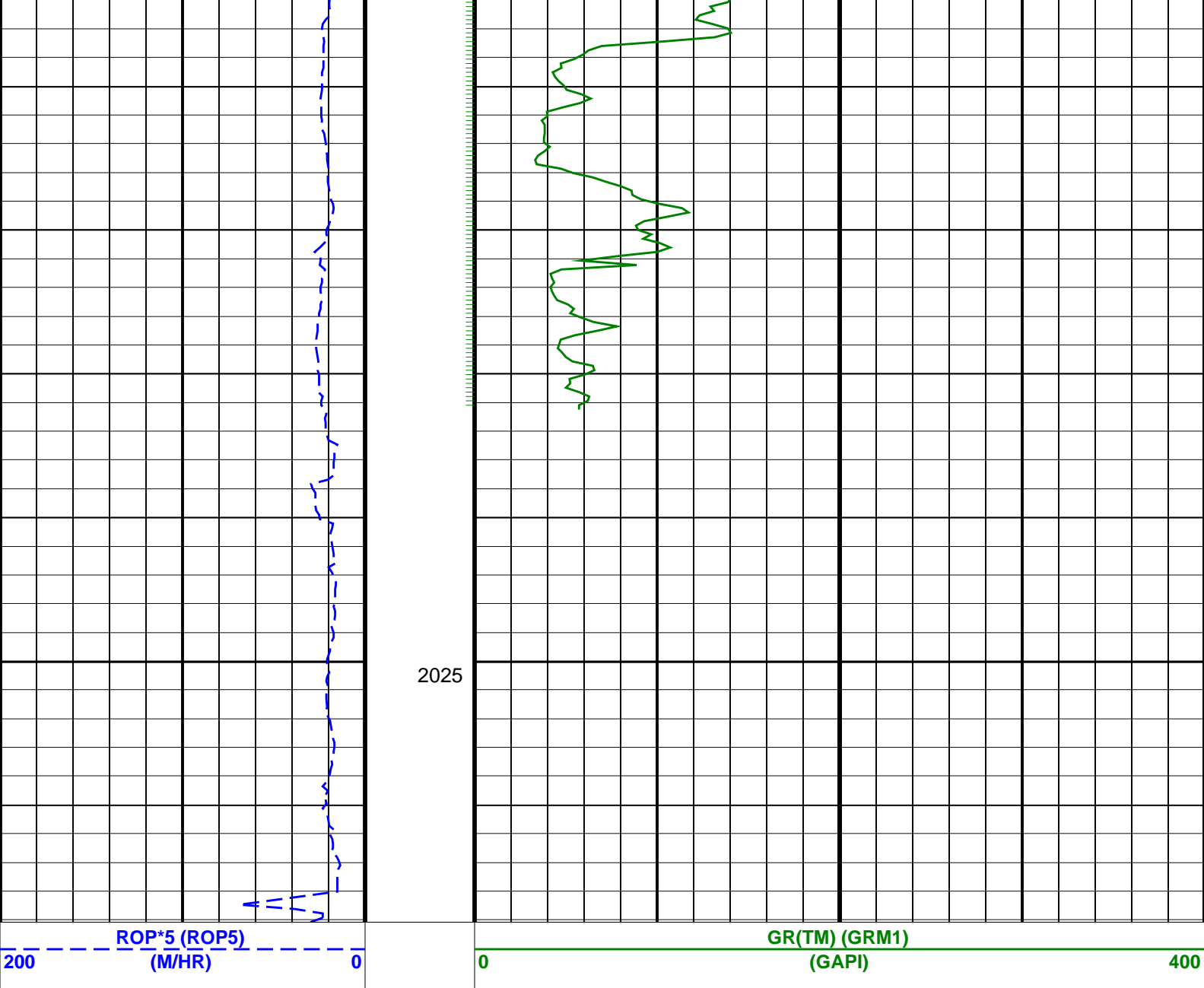


1950

1975

2000





2025

PIP SUMMARY

GR(TM) PIP

SCHLUMBERGER

Survey report 7-Nov-2005 08:02:24 Page 1 of 2

Client..... ESSO Australia
Field..... Bream

Well..... BMA-A1A
API number.....
Engineer..... J. Dolan, R. Burns

COUNTY..... ISDL 453
STATE..... Victoria

Spud date..... 29-Oct-05
Last survey date..... 07-Nov-05
Total accepted surveys... 29
MD of first survey..... 1500.00 m
MD of last survey..... 2294.00 m

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

----- Geomagnetic data -----
Magnetic model..... BGGM version 2005
Magnetic date..... 27-Oct-2005
Magnetic field strength... 1202.86 HCNT
Magnetic dec (+E/W-)..... 13.07 degrees
Magnetic dip..... -69.04 degrees

----- Depth reference -----
Permanent datum..... Mean Sea Level
Depth reference..... Drill Floor
GL above permanent..... -59.40 m
KB above permanent..... Top Drive
DF above permanent..... 32.82 m

----- MWD survey Reference Criteria -----
Reference G..... 1000.05 mGal
Reference H..... 1202.86 HCNT
Reference Dip..... -69.04 degrees
Tolerance of G..... (+/-) 2.50 mGal
Tolerance of H..... (+/-) 6.00 HCNT
Tolerance of Dip..... (+/-) 0.45 degrees

----- Vertical section origin-----
Latitude (+N/S-)..... 0.00 m
Departure (+E/W-)..... 0.00 m

----- Platform reference point-----
Latitude (+N/S-)..... 0.00 m
Departure (+E/W-)..... 0.00 m

----- Corrections -----
Magnetic dec (+E/W-)..... 13.07 degrees
Grid convergence (+E/W-).. -0.48 degrees
Total az corr (+E/W-)..... 13.55 degrees
(Total az corr = magnetic dec - grid conv)

Azimuth from Vsect Origin to target: 259.93 degrees

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

7-Nov-2005 08:02:24

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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/ 100f)	Srvy tool type	Tool Corr (deg)
1	1500.00	43.98	264.77	0.00	1288.29	679.89	-58.66	-680.11	682.64	265.07	0.00	TIP	None
2	1531.94	40.72	253.98	31.94	1311.92	701.34	-62.55	-701.20	703.99	264.90	7.59	MWD	None
3	1561.54	34.65	246.81	29.60	1335.35	719.16	-68.54	-718.24	721.50	264.55	7.70	MWD	None
4	1589.77	28.88	243.32	28.23	1359.34	733.52	-74.77	-731.72	735.53	264.17	6.54	MWD	None
5	1618.63	27.44	243.14	28.86	1384.79	746.57	-80.90	-743.88	748.27	263.79	1.52	MWD	None
6	1647.34	24.60	242.51	28.71	1410.58	758.60	-86.65	-755.09	760.04	263.45	3.03	MWD	None
7	1674.35	20.82	242.73	27.01	1435.49	768.56	-91.44	-764.34	769.79	263.18	4.27	MWD	None
8	1704.39	17.19	246.18	30.04	1463.89	777.97	-95.68	-773.15	779.05	262.95	3.85	MWD	None
9	1733.75	16.54	246.45	29.36	1491.99	786.25	-99.11	-780.95	787.22	262.77	0.68	MWD	None
10	1762.64	16.18	246.39	28.89	1519.71	794.16	-102.36	-788.41	795.03	262.60	0.38	MWD	None
11	1791.14	15.92	246.67	28.50	1547.10	801.83	-105.50	-795.64	802.60	262.45	0.29	MWD	None
12	1820.20	15.63	246.25	29.06	1575.07	809.51	-108.66	-802.88	810.20	262.29	0.33	MWD	None
13	1847.98	15.20	245.88	27.78	1601.85	816.68	-111.65	-809.63	817.29	262.15	0.48	MWD	None
14	1877.05	15.05	245.51	29.07	1629.91	824.03	-114.77	-816.54	824.57	262.00	0.19	MWD	None
15	1906.11	14.81	245.26	29.06	1657.99	831.28	-117.89	-823.35	831.75	261.85	0.26	MWD	None
16	1934.83	14.49	244.18	28.72	1685.77	838.29	-120.99	-829.92	838.69	261.71	0.45	MWD	None
17	1963.66	14.08	244.09	28.83	1713.71	845.13	-124.10	-836.32	845.48	261.56	0.43	MWD	None
18	1992.06	14.15	246.42	28.40	1741.26	851.83	-126.99	-842.61	852.12	261.43	0.61	MWD	None
19	2020.62	13.90	245.96	28.56	1768.96	858.56	-129.79	-848.94	858.80	261.31	0.29	MWD	None
20	2049.39	13.61	245.94	28.77	1796.91	865.19	-132.58	-855.19	865.40	261.19	0.31	MWD	None
21	2078.12	13.99	245.60	28.73	1824.81	871.84	-135.39	-861.44	872.01	261.07	0.41	MWD	None
22	2106.73	14.45	246.41	28.61	1852.54	878.66	-138.24	-867.86	878.80	260.95	0.53	MWD	None
23	2135.41	14.45	245.87	28.68	1880.32	885.61	-141.14	-874.40	885.72	260.83	0.14	MWD	None
24	2164.02	14.38	245.88	28.61	1908.02	892.52	-144.05	-880.90	892.60	260.71	0.07	MWD	None
25	2192.83	14.38	245.45	28.81	1935.93	899.45	-147.00	-887.42	899.51	260.59	0.11	MWD	None
26	2221.34	14.44	245.31	28.51	1963.54	906.32	-149.95	-893.87	906.36	260.48	0.07	MWD	None
27	2249.99	14.38	244.31	28.65	1991.29	913.20	-152.99	-900.32	913.23	260.36	0.27	MWD	None
28	2273.82	14.42	243.55	23.83	2014.38	918.90	-155.59	-905.65	918.91	260.25	0.25	MWD	None
29	2294.00	14.45	242.91	20.18	2033.92	923.72	-157.86	-910.14	923.73	260.16	0.25	Projection to TD	

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

Schlumberger

Well: **BMA A1A**

Field: **Bream**

Rig: **ISDL 453**

State: **Victoria**

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

