



Well: **Expedition 401, Site U1611A**
Field: **Mediterranean–Atlantic Gateway Exchange**
Rig: **JOIDES Resolution** Country: **Spain**

Rig:	JOIDES Resolution					
Field:	Mediterranean-Atlantic Gateway					
Location:	Latitude: N 36° 18.7537'					
Well:	Expedition 401, Site U1611A					
Company:	International Ocean Discovery Program					
		HNGS, HLDS, HRLA, MSS Gamma, Density, Resistivity, Mag				
		LOCATION	Latitude: N 36° 18.7537'		Elev.: K.B. 0.00 m G.L. -821.40 m D.F. 0.00 m	
			Longitude: W 04° 31.2717'			
			Permanent Datum: <u>Sea Floor</u>		Elev.: <u>-821.40 m</u>	
		Log Measured From: <u>Rig Floor</u>		821.40 m above Perm. Datum		
		Drilling Measured From: <u>Rig Floor</u>				
		Ocean: Mediterranean		Max. Well Deviation 14 deg	Longitude W 04° 31.2717'	Latitude N 36° 18.7537'

Logging Date		29-Jan-2024			
Run Number		1			
Depth Driller		2103.3 m			
Schlumberger Depth		1731 m			
Bottom Log Interval		1731 m			
Top Log Interval		800 m			
Casing Driller Size @ Depth		0.000 in @ 0 m		@	
Casing Schlumberger		0 m			
Bit Size		9.875 in			
Type Fluid In Hole		Seawater			
MUD	Density	Viscosity	9 lbm/gal		
	Fluid Loss	PH		8.07	
	Source Of Sample		Mudpit		
	RM @ Measured Temperature		0.220 ohm.m @ 23 degC		@
	RMF @ Measured Temperature		@		@
RMC @ Measured Temperature		@		@	
Source RMF	RMC	N/A	N/A		
RM @ MRT	RMF @ MRT	0.236 @ 20	@ 20	@	@
Maximum Recorded Temperatures		20 degC			
Circulation Stopped		Time	28-Jan-2024	21:00	
Logger On Bottom		Time	30-Jan-2024	0:53	
Unit Number	Location	627314	Larose, LA		
Recorded By		K. Garrett			
Witnessed By		B. Rhinehart			





[illegible]

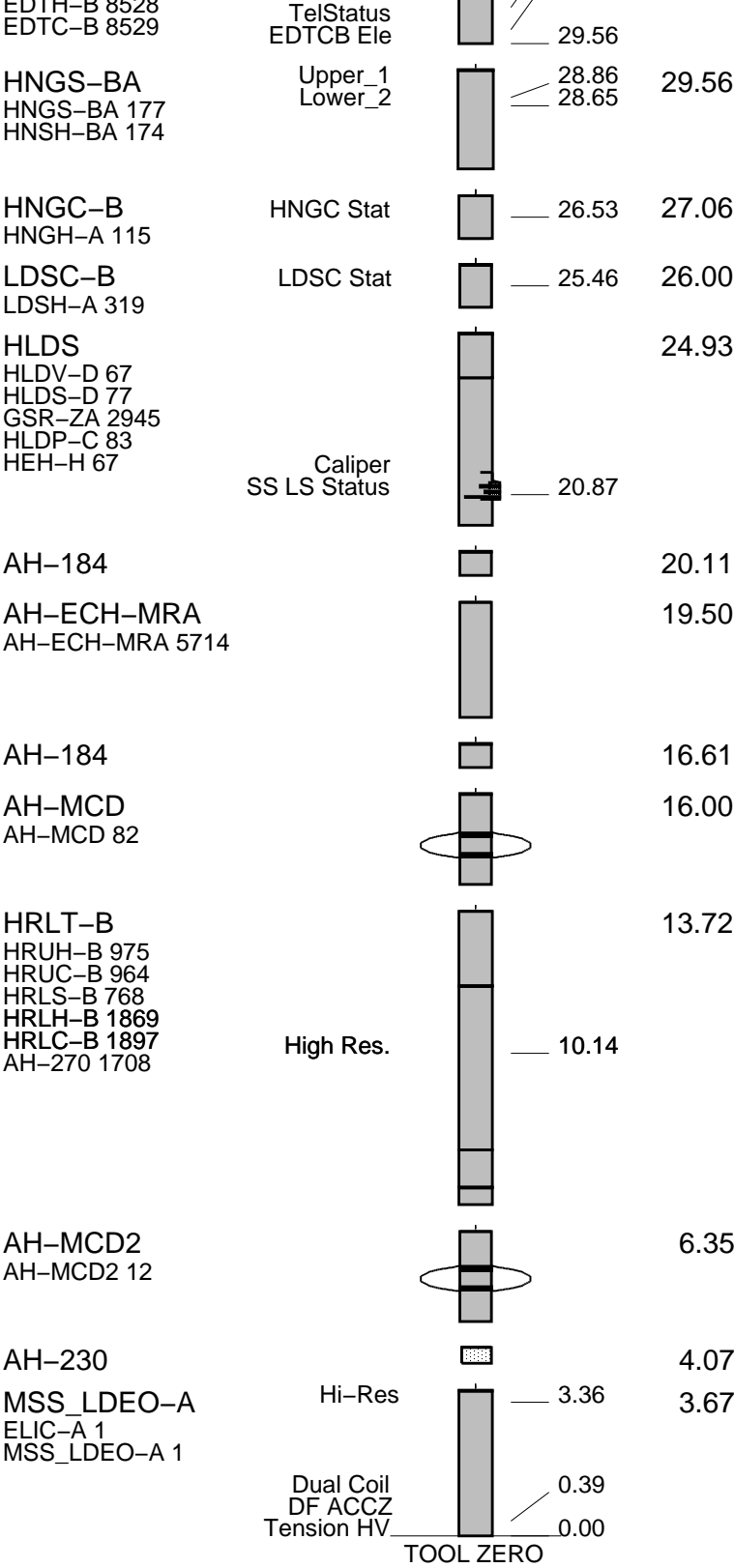
Run 4

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.

OTHER SERVICES1			OTHER SERVICES2		
OS1: FMS			OS1:		
OS2: VSI			OS2:		
OS3: DSI			OS3:		
OS4:			OS4:		
OS5:			OS5:		
REMARKS: RUN NUMBER 1			REMARKS: RUN NUMBER 2		
Hole drilled with RCB bottom hole assembly (BHA) using bit at 9.875" BS					
TD (Driller) 2103.3mbrf					
Drill pipe set at 1494.3m					
Depth recorded from drill floor; logs presented as-logged without depth corrections or shifts, as per client instructions.					
All logs presented in wireline measured depth below rig floor (MDBRF).					
Caliper opened during upward passes; closed inside pipe/well and while logging down.					
Hole size corrections made using caliper measurements for upward passes bit size used for downlog corrections.					
AHC was turned on 5m below the end of pipe @ 1533m					
Caliper closed prior to entering the pipe on main pass and logged to above SF.					
Downlog flipped and note the caliper closed logging down.					
RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION: 19C0-187			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

RUN 1 RUN 2

SURFACE EQUIPMENT			
GSR-U 135			
WITM (EDTS)-A			
DOWNHOLE EQUIPMENT			
LEH-PT			33.29
LEH-PT 1060			
AH-233			32.35
AH-369	MDSB EDTC		
	Mud Tempe		31.54
	CTEM		30.48
EDTC-B	Gamma Ray		29.91
EFTB DIAG	EFTB DIAG		31.54



MAXIMUM STRING DIAMETER 4.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Schlumberger

Downlog

MAXIS Field Log

Company: International Ocean Discovery Program Well: Expedition 401, Site U1611A

Input DLIS Files

DEFAULT Flip_MSS_LDEO_HRLA_012LUP PRODUCER 30-Jan-2024 00:54 1732.6 M 772.7 M

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_016PUP FN:14 PRODUCER 30-Jan-2024 03:48 1732.6 M 772.7 M

OP System Version: 19C0-187

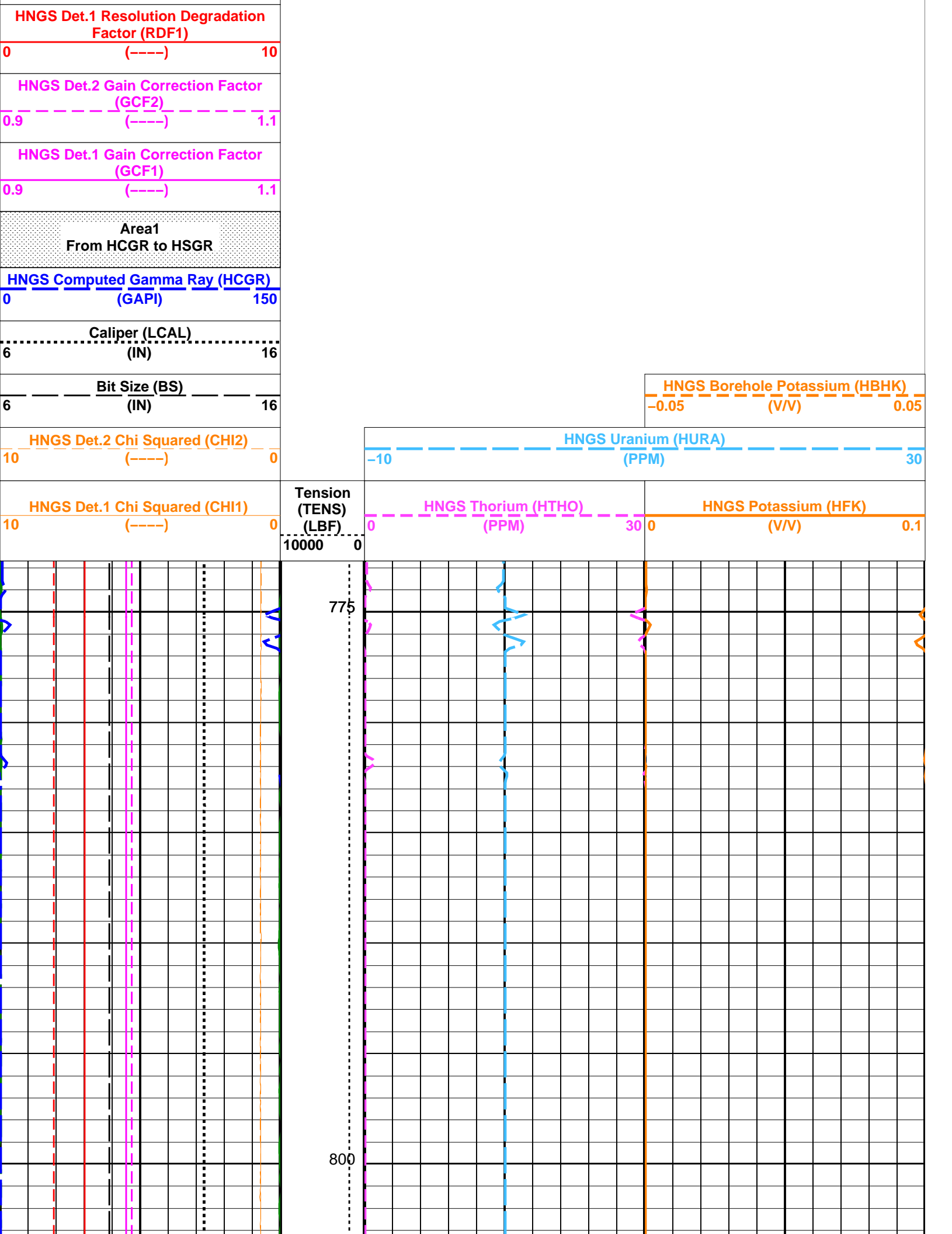
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HLDS 19C0-187 LDSC-B 19C0-187
HNGC-B 19C0-187 HNGS-BA 19C0-187
EDTC-B 19C0-187

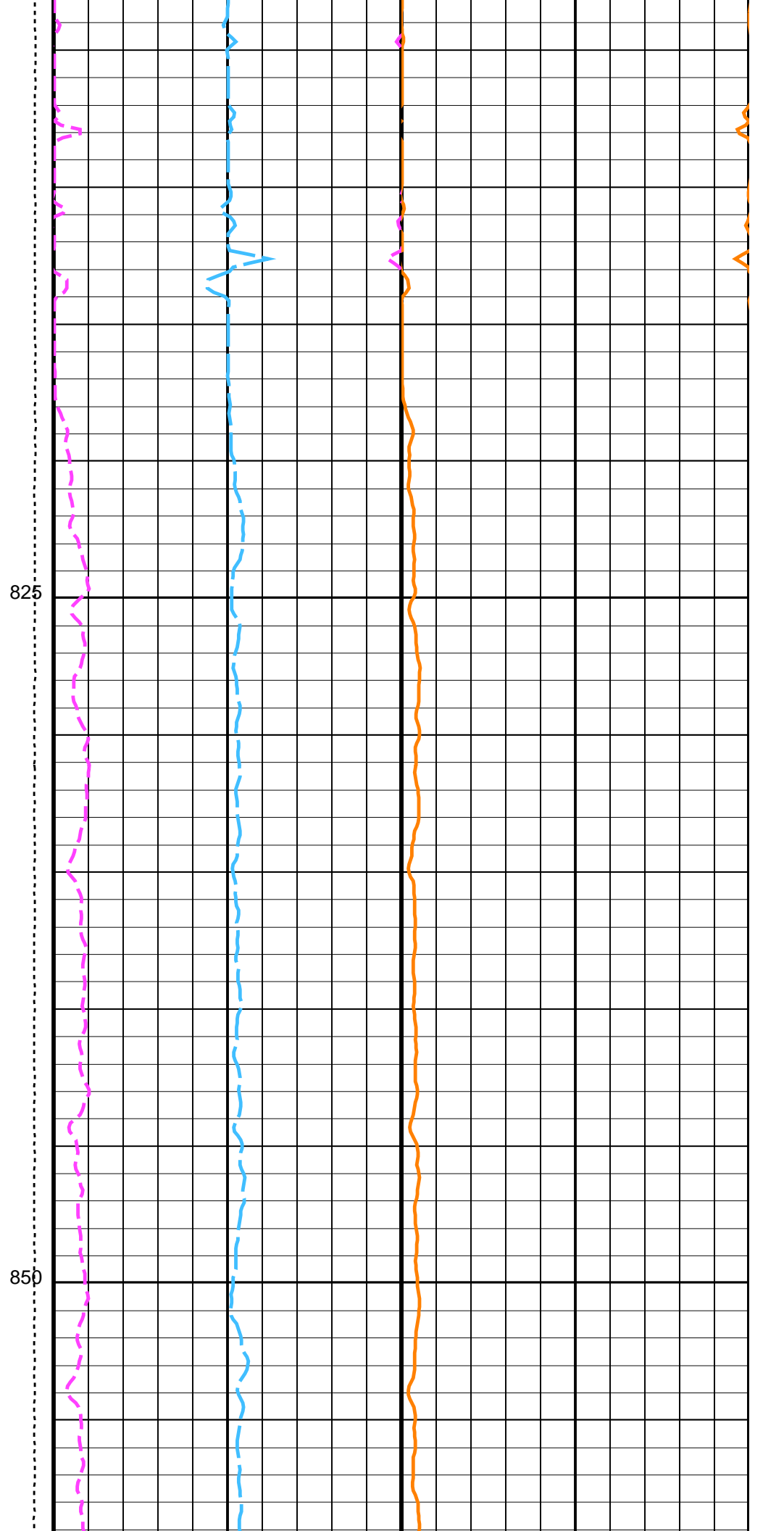
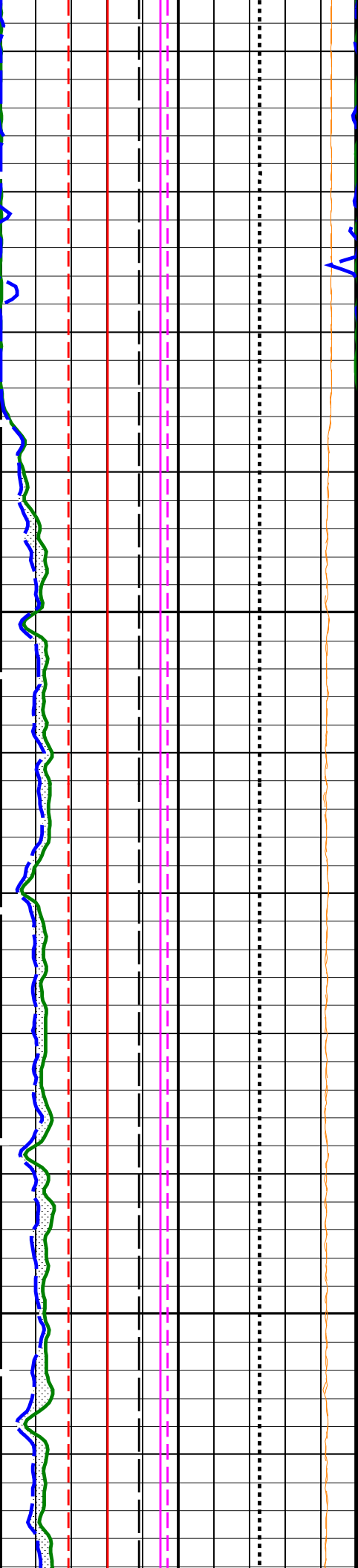
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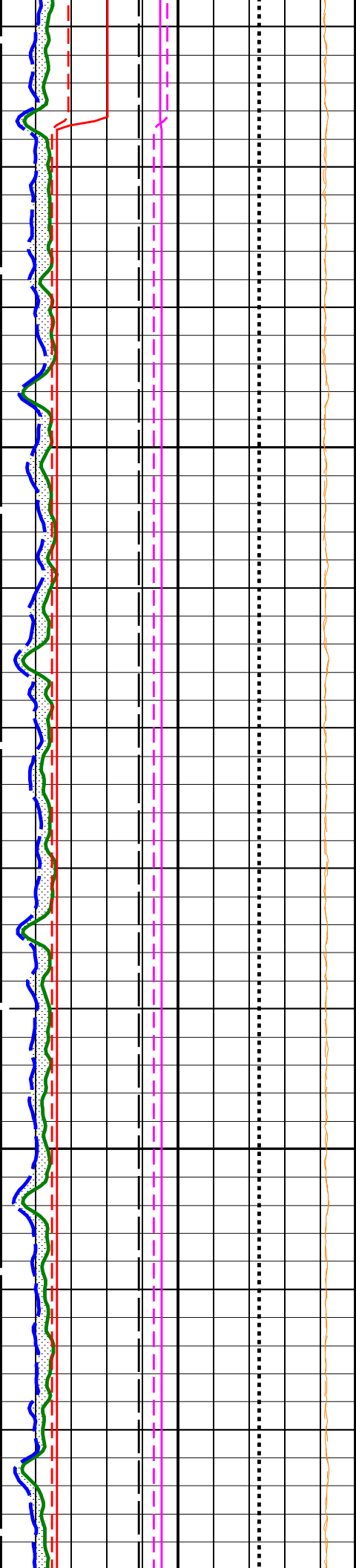
Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray
(HSGR)
0 (GAPI) 150

HNGS Det.2 Resolution Degradation
Factor (RDF2)
0 (----) 10

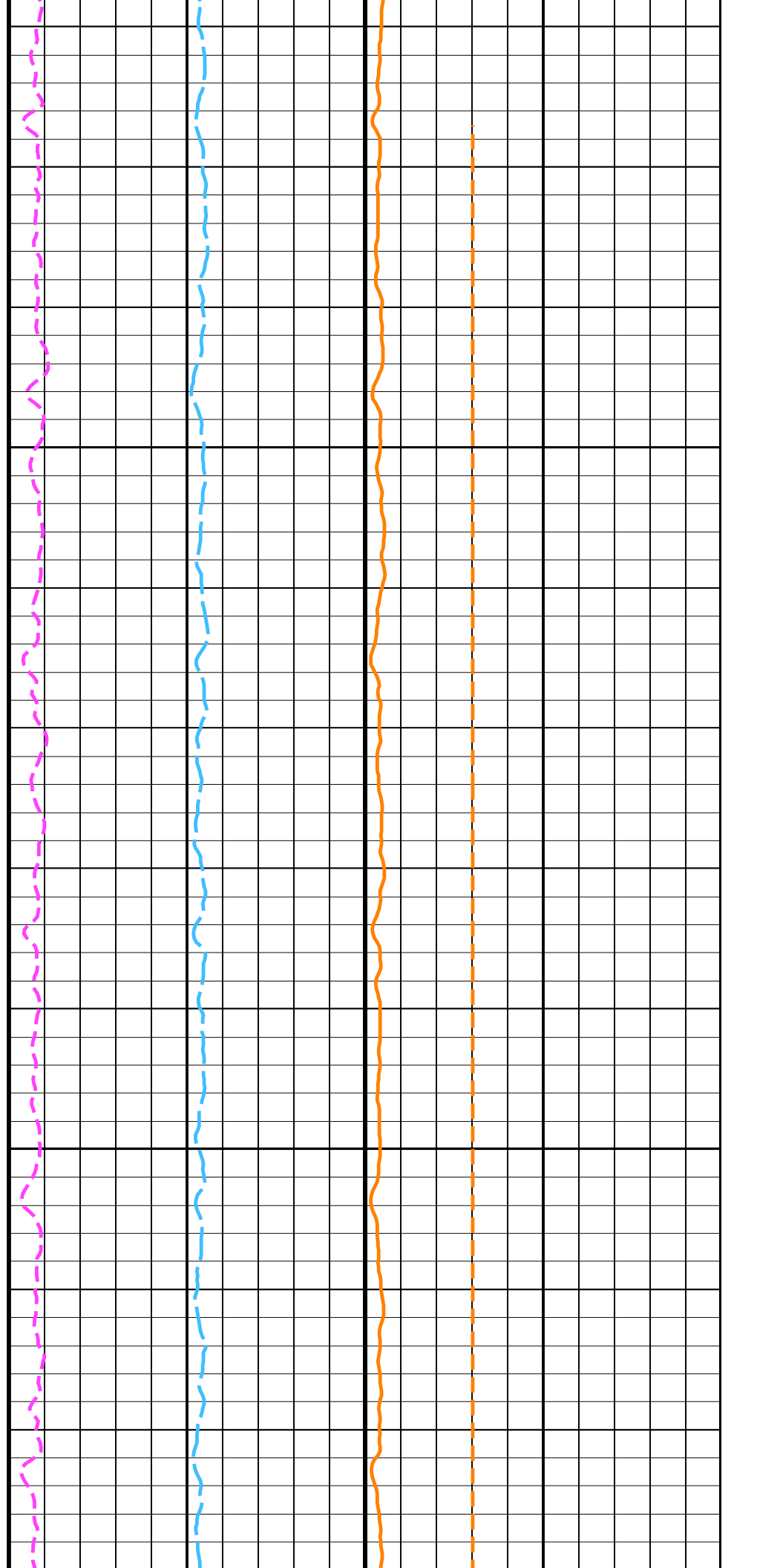


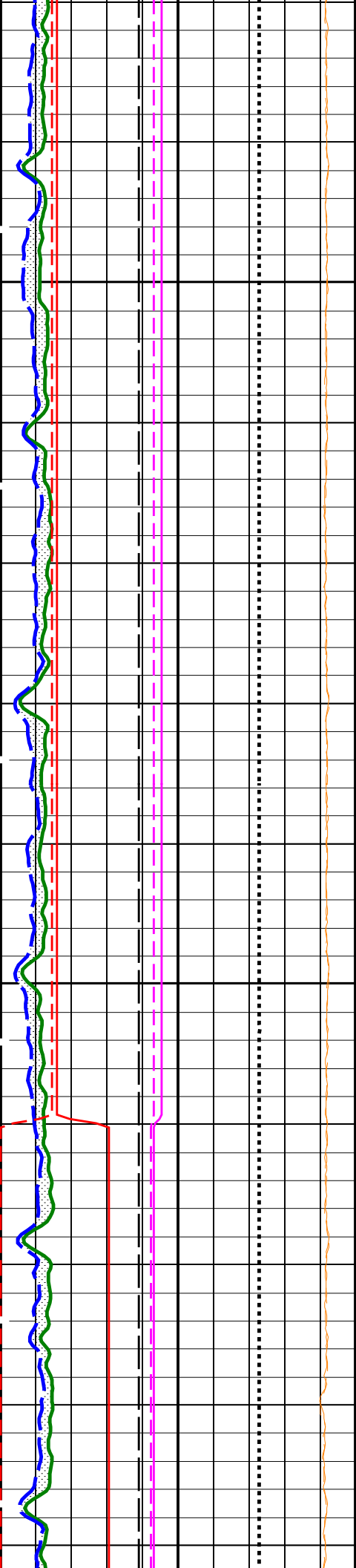




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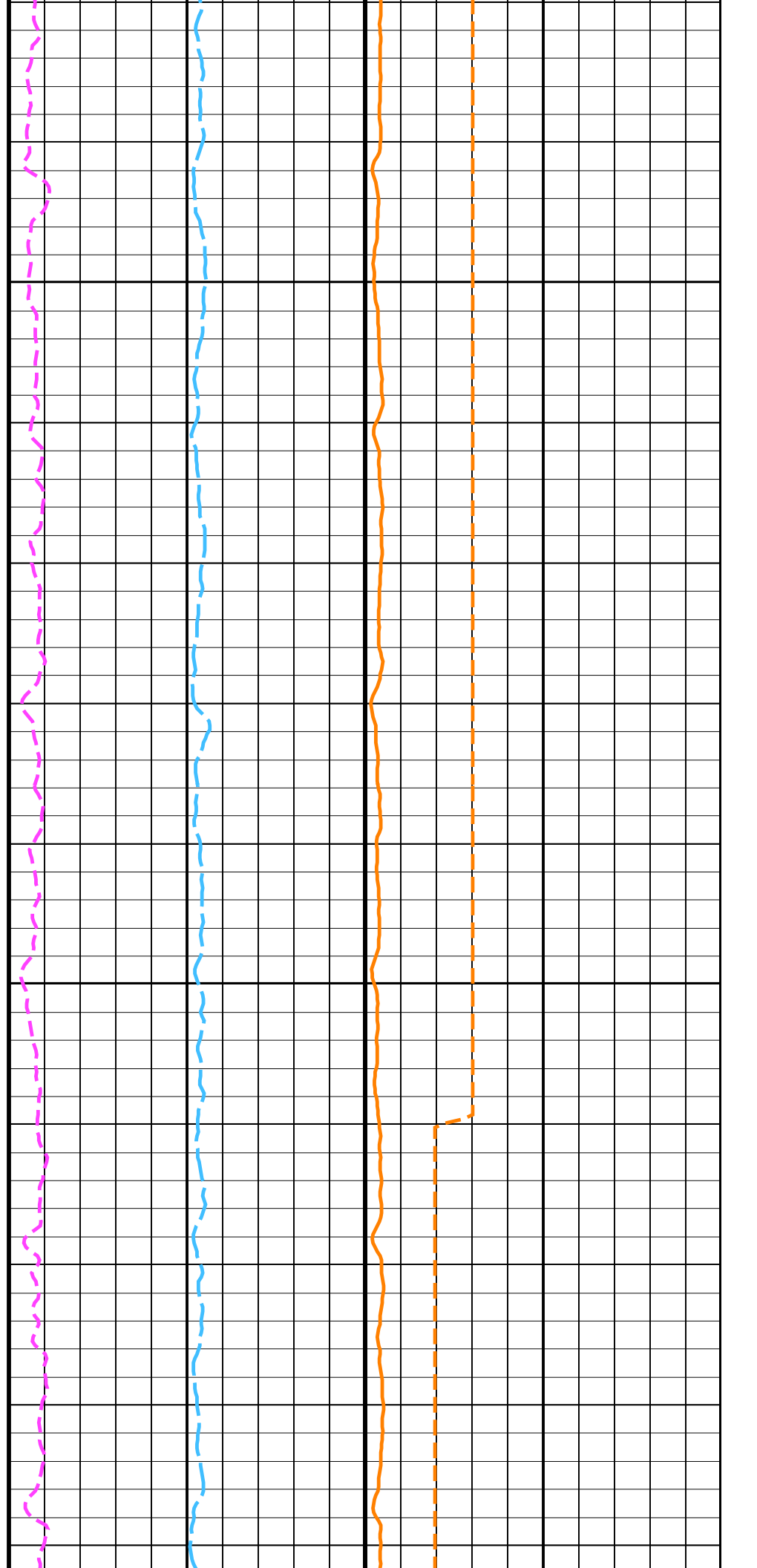
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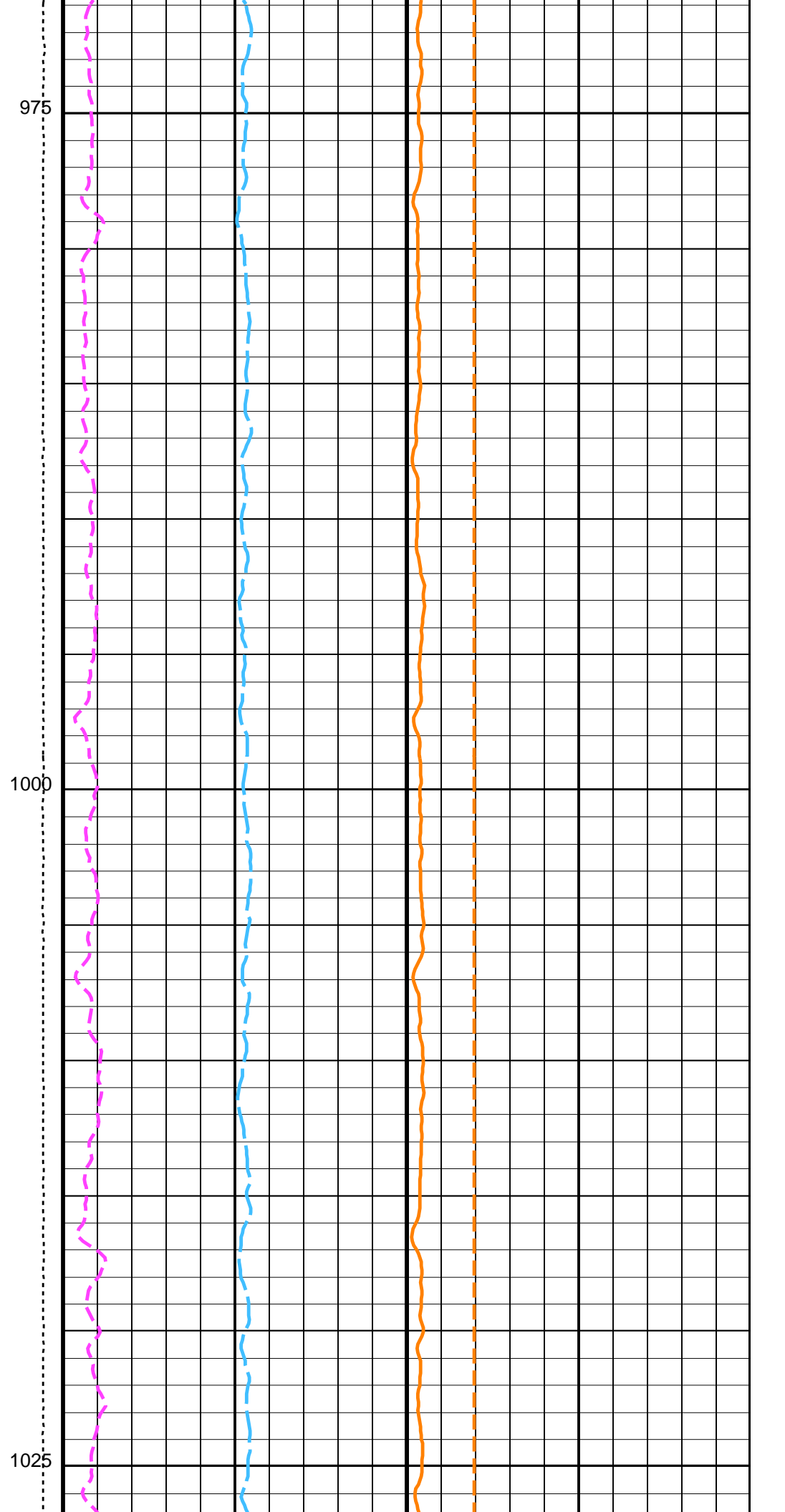
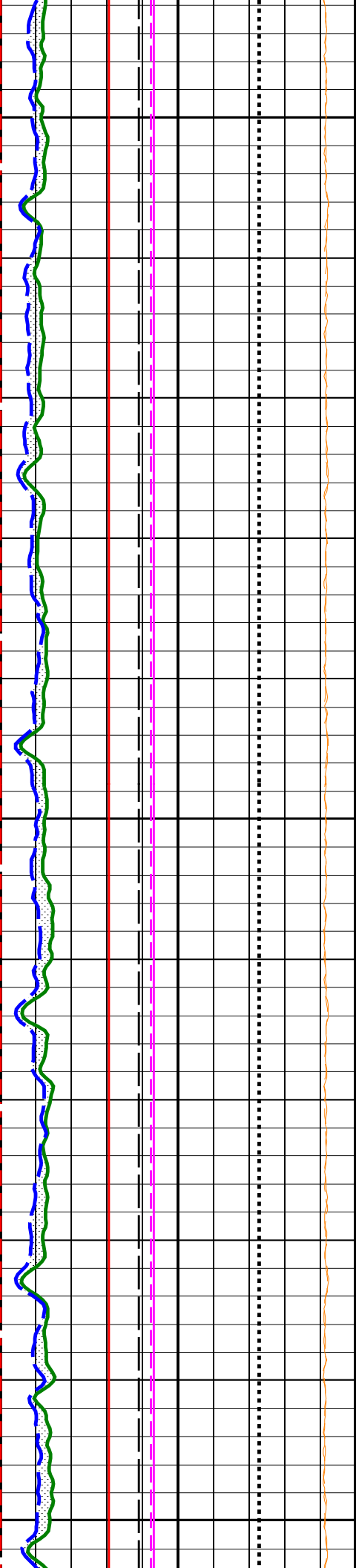


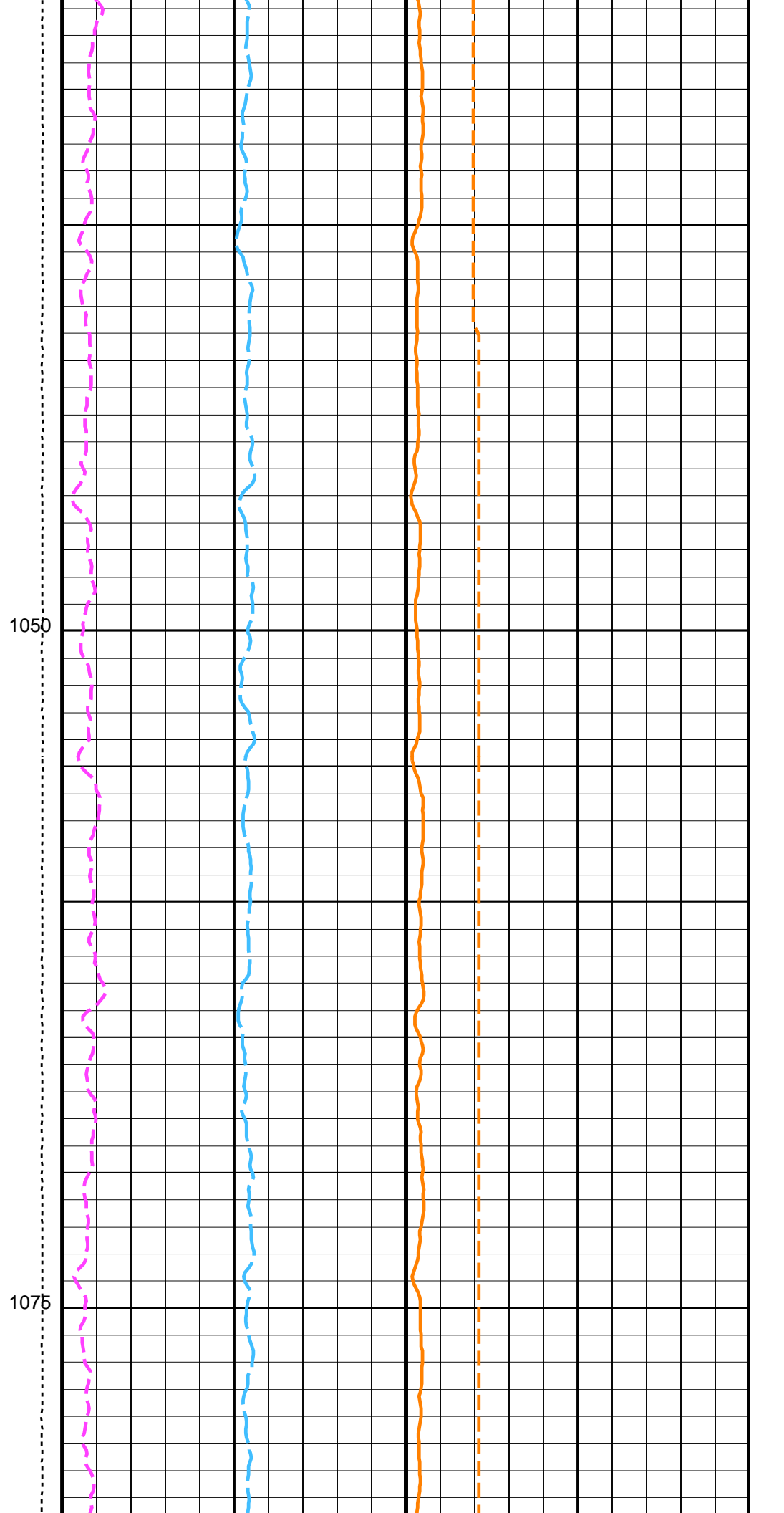
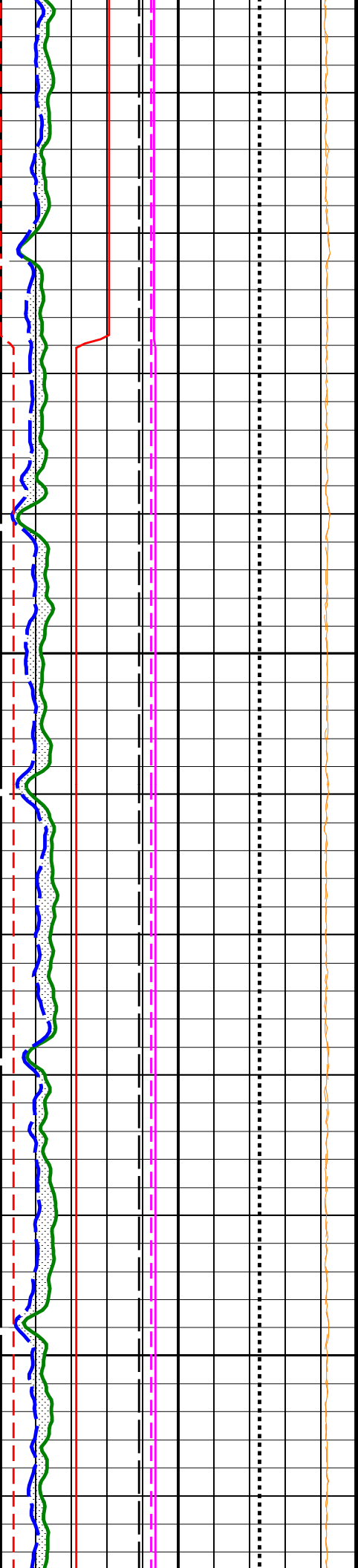


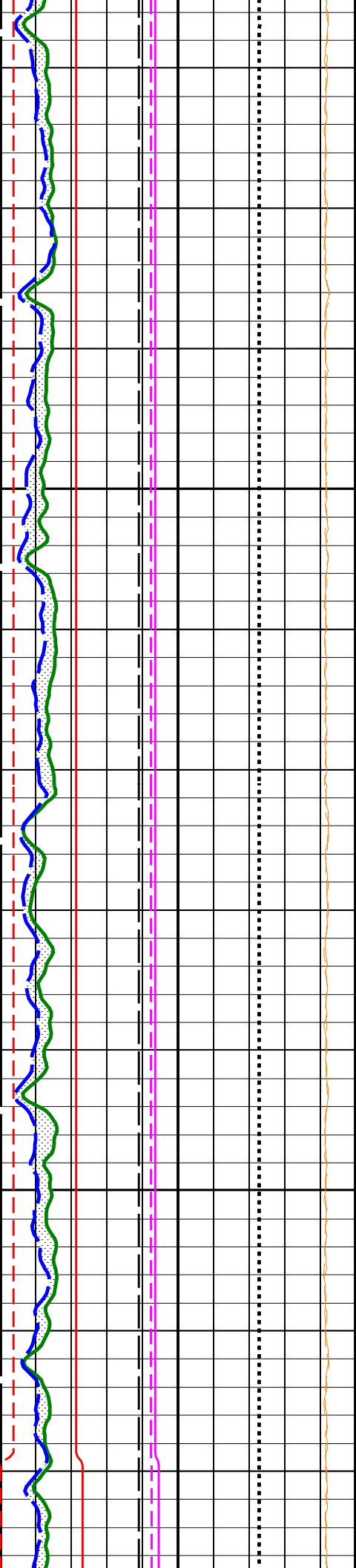
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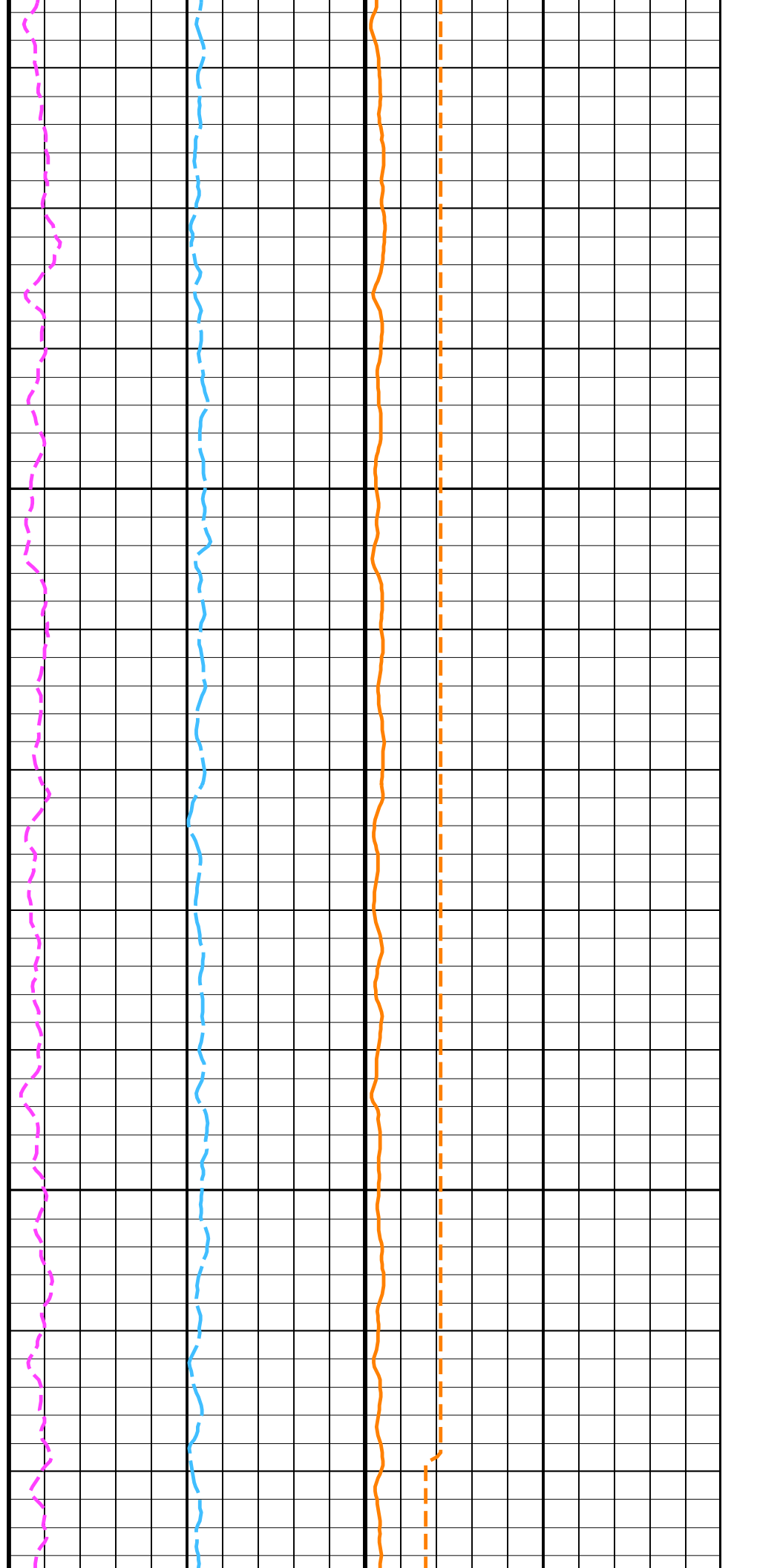


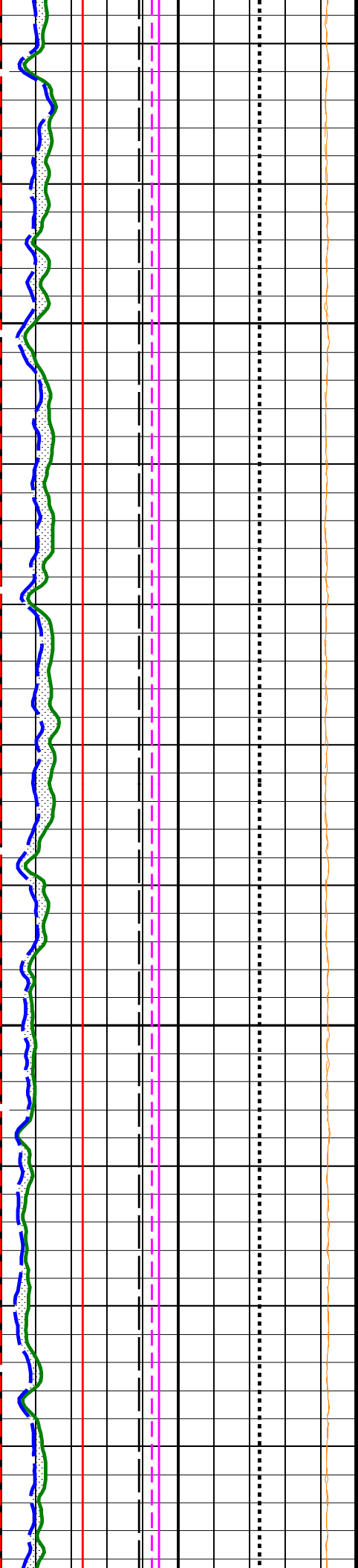




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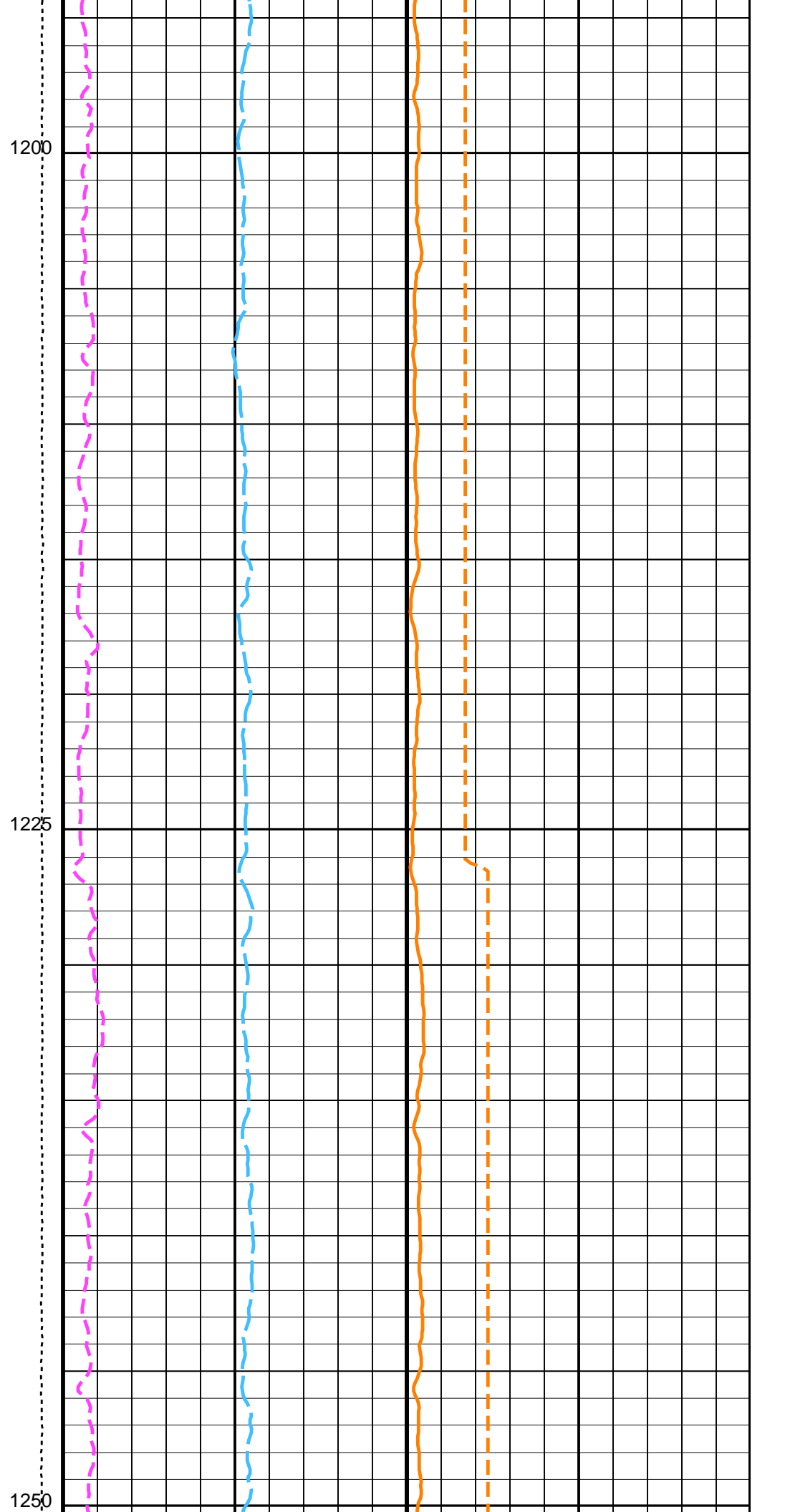
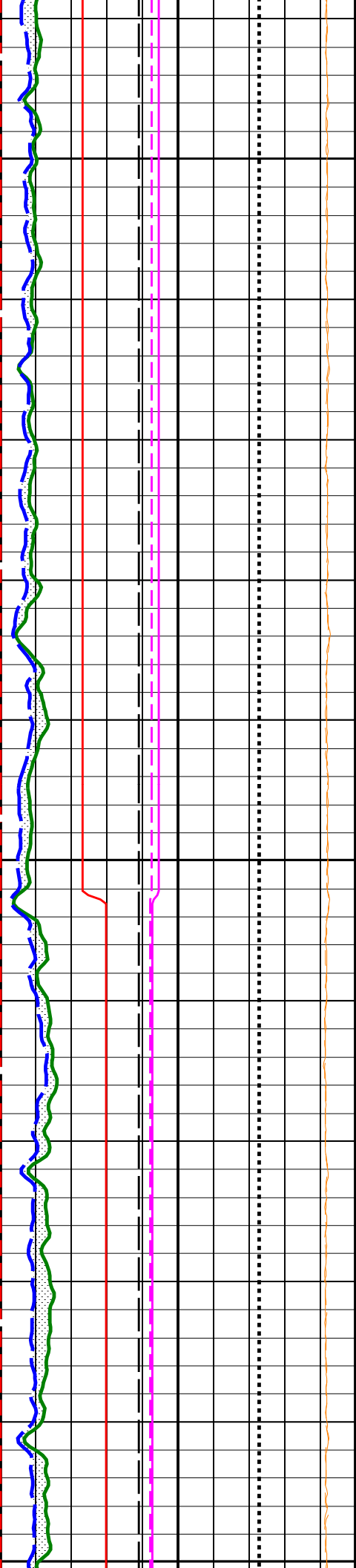


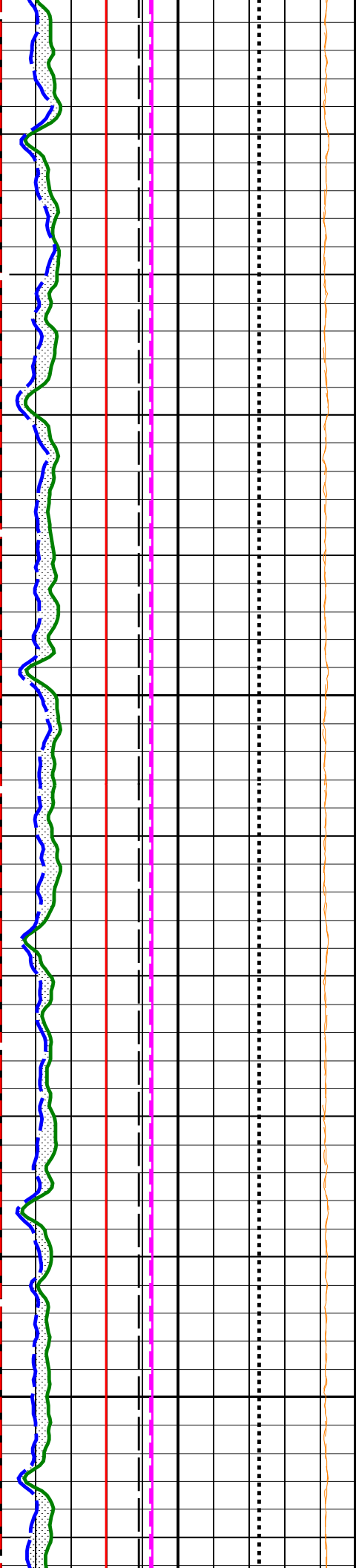


1150

1175

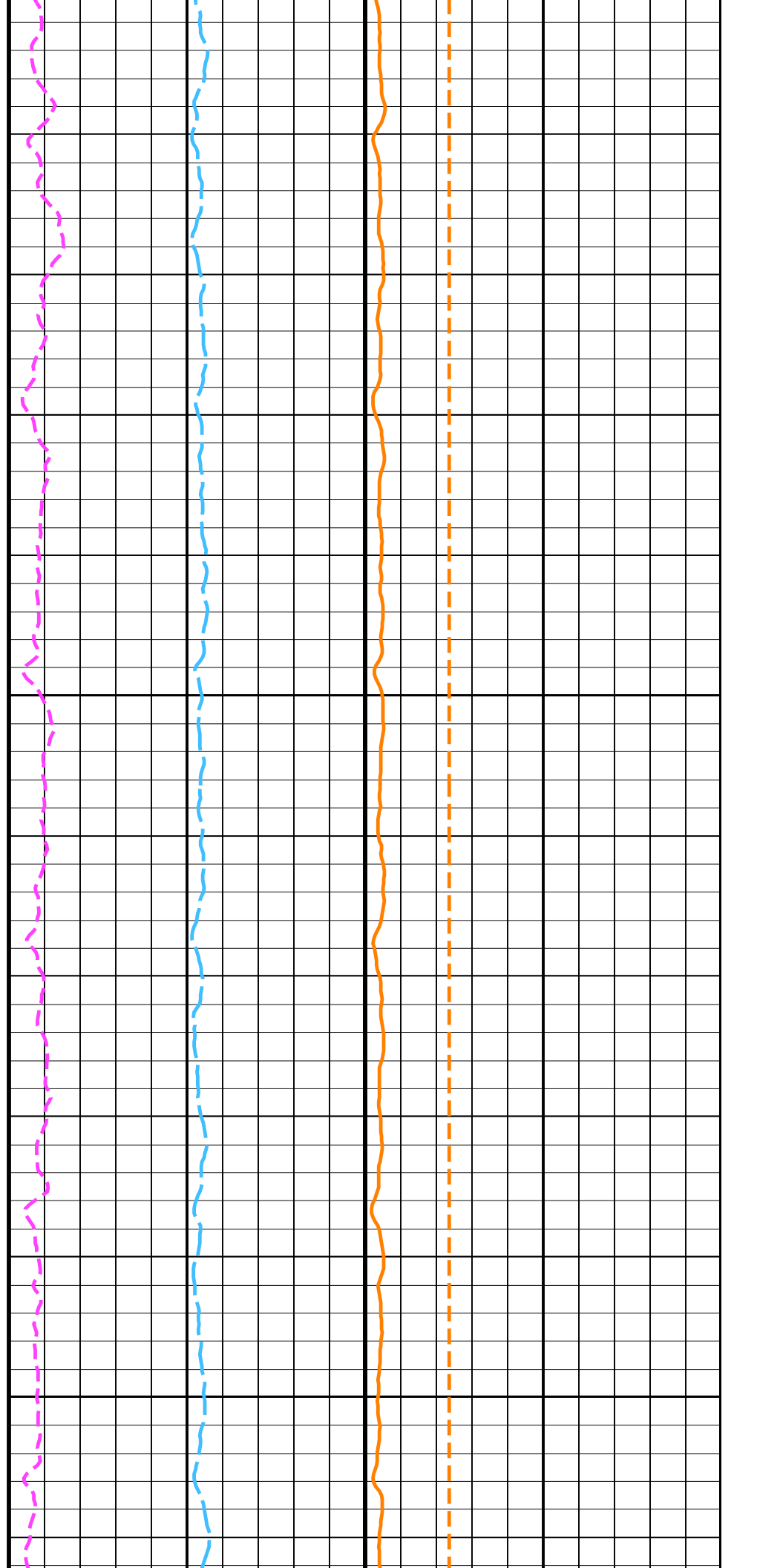


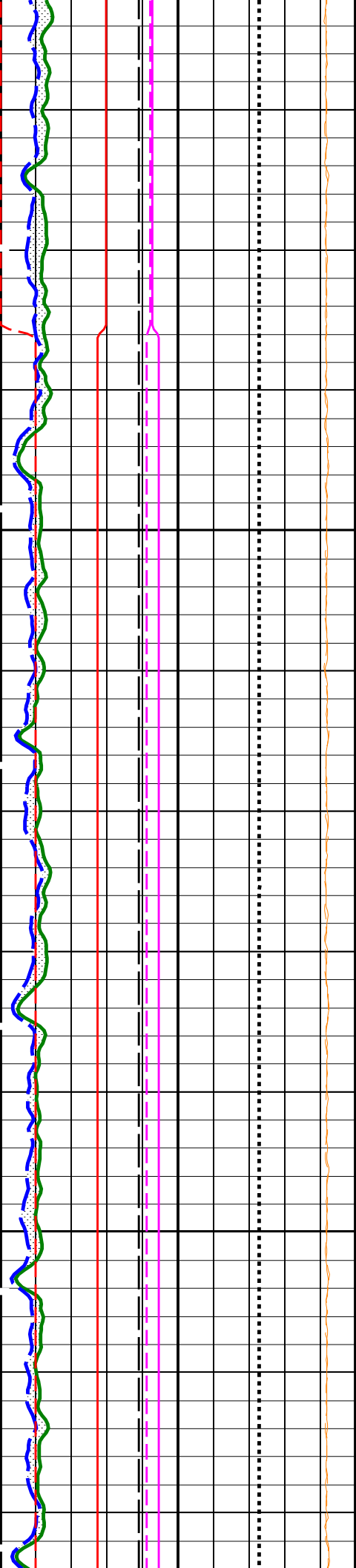




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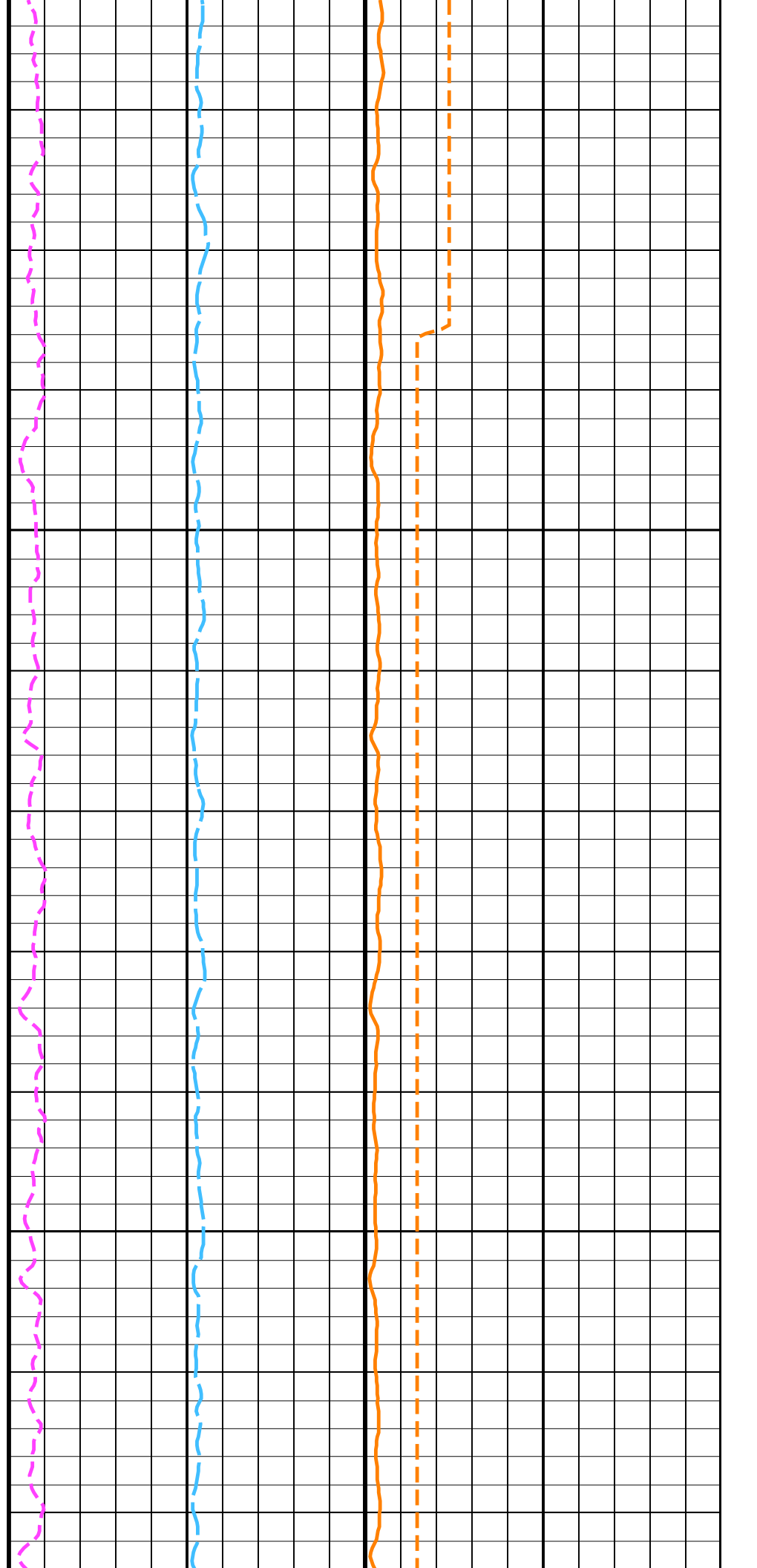
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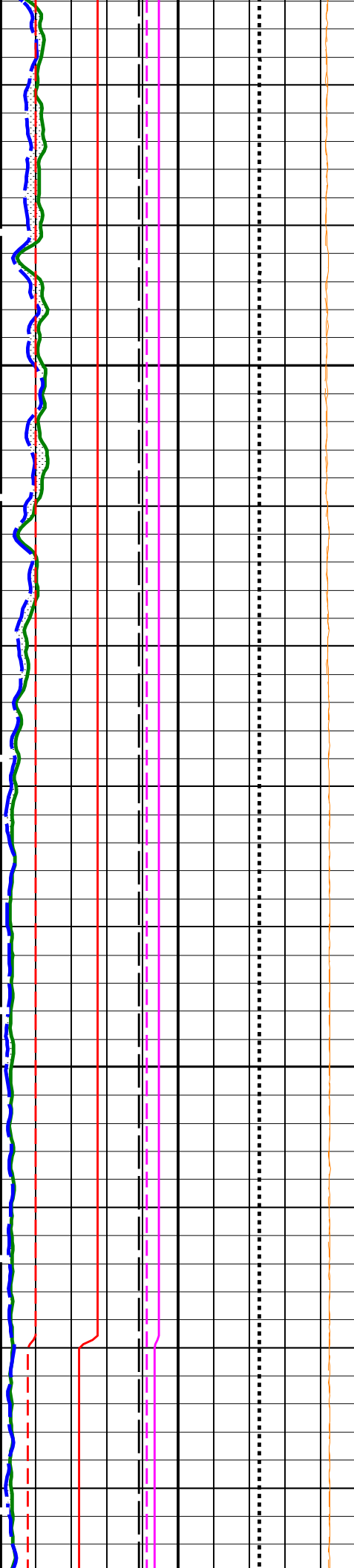




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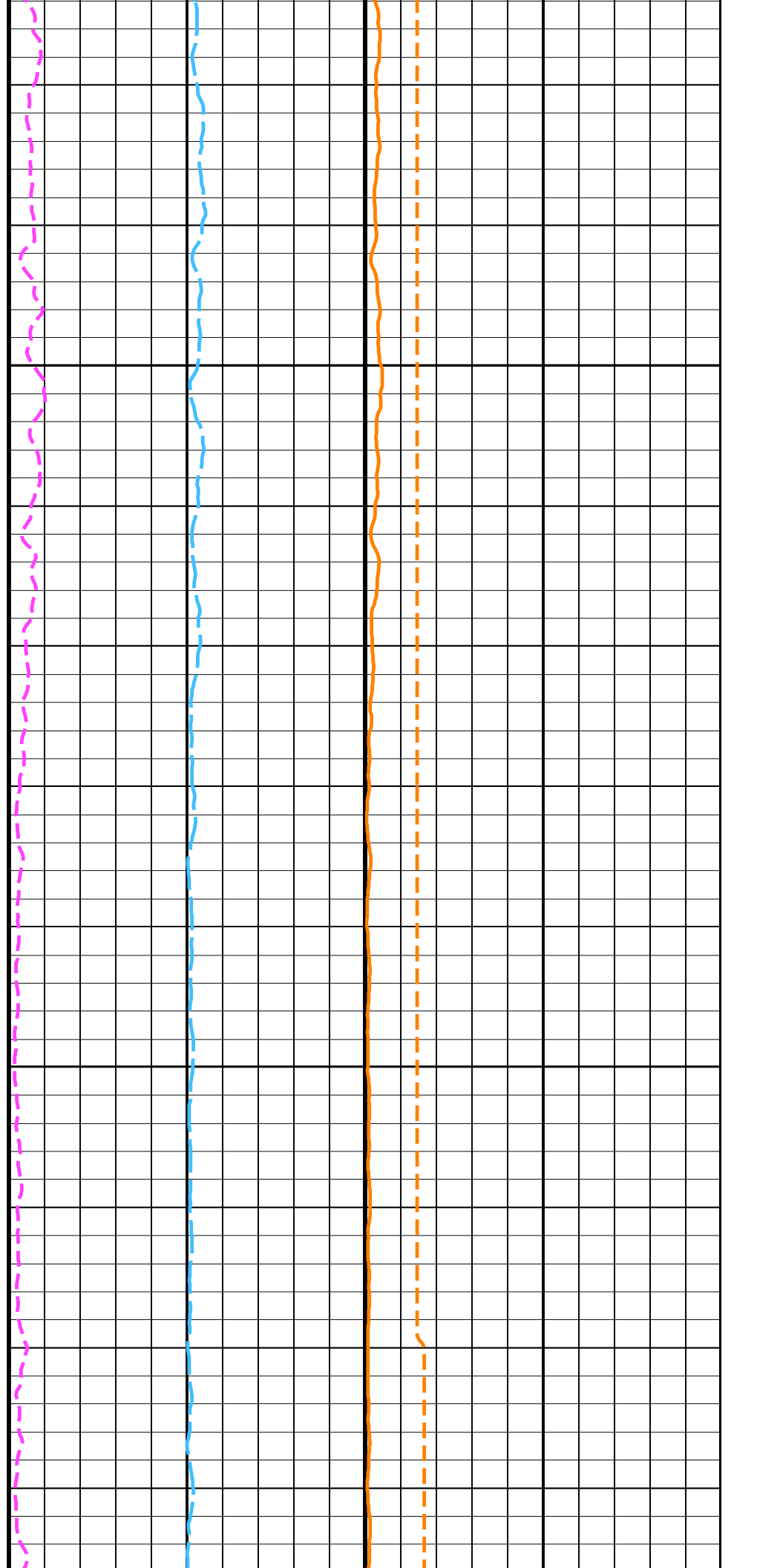
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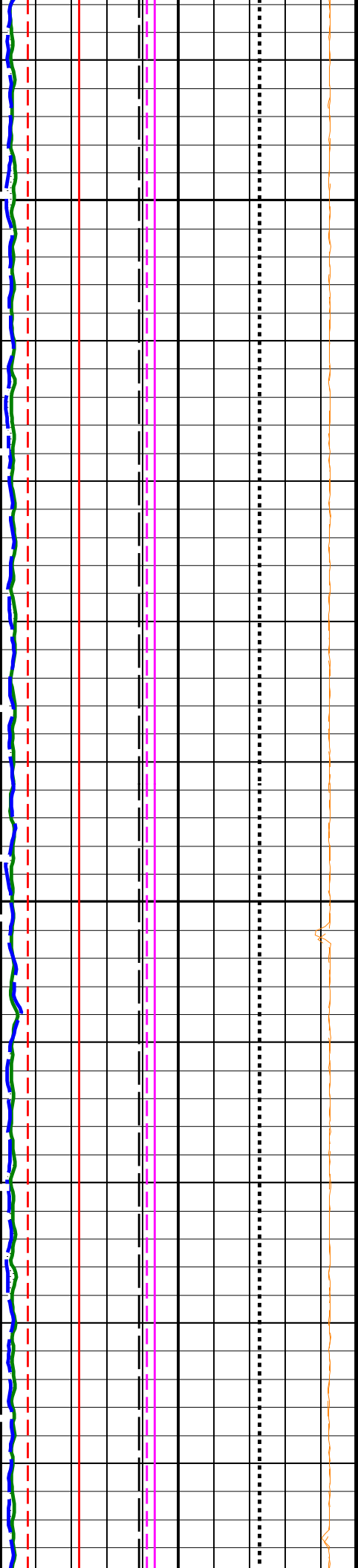




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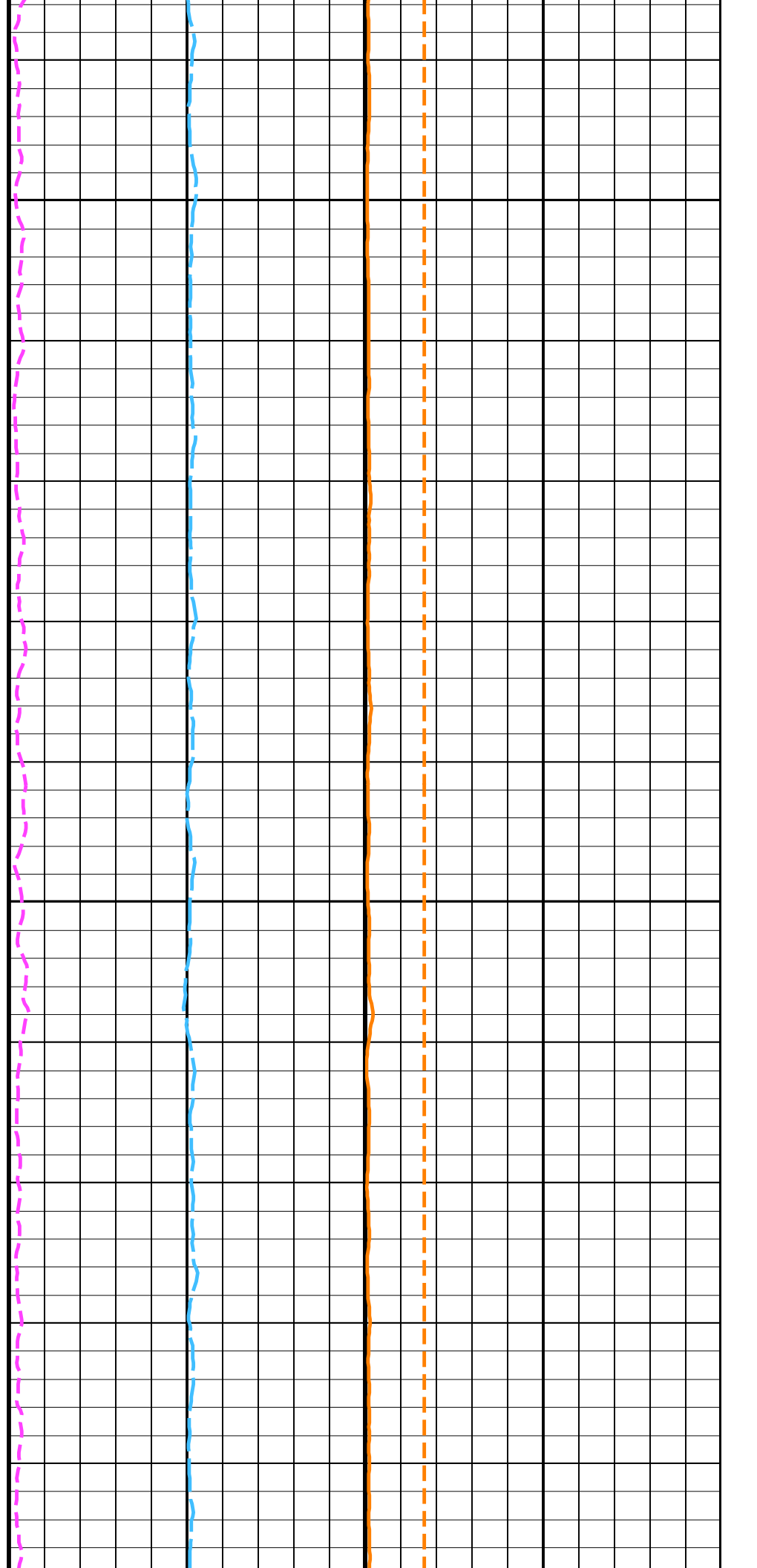
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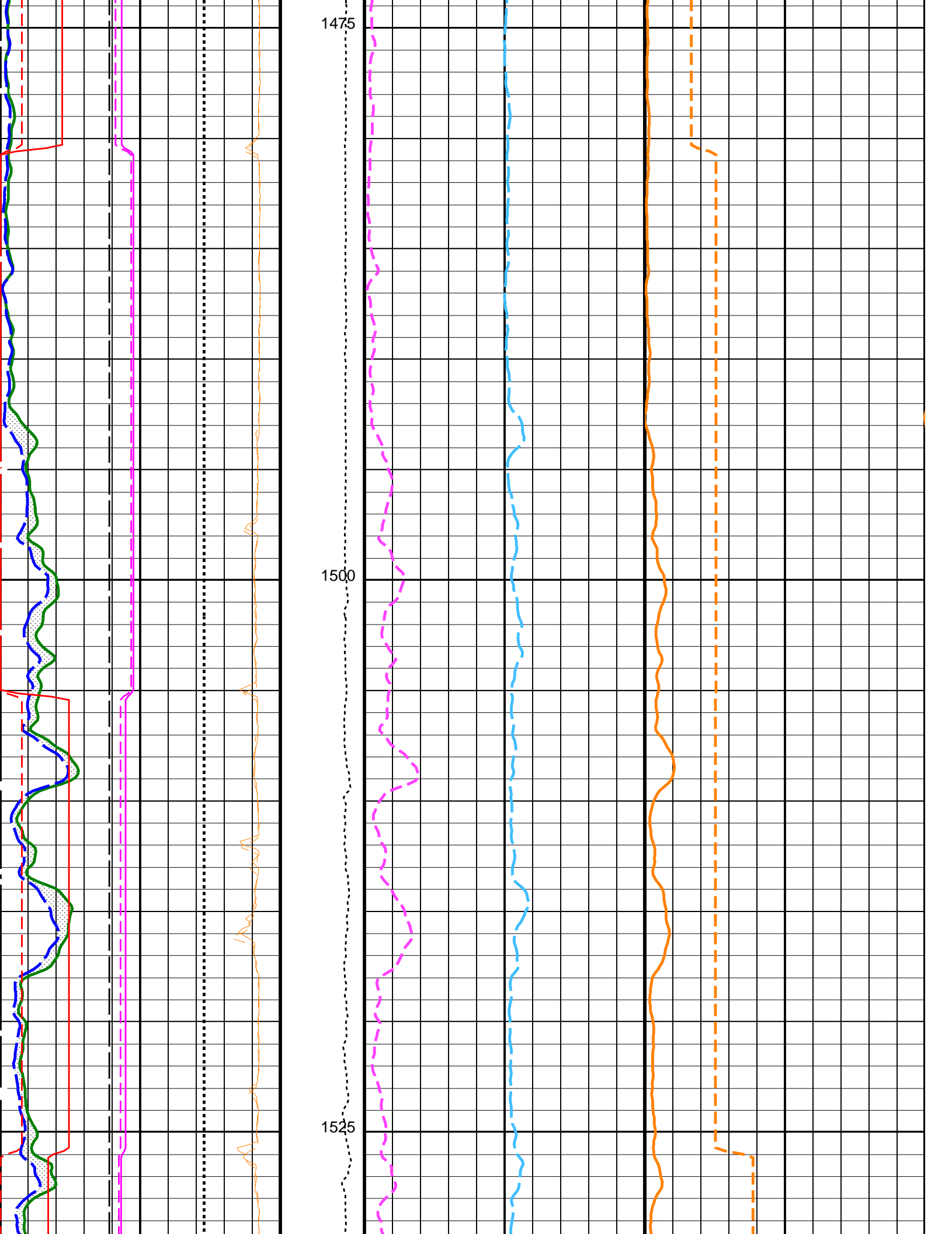


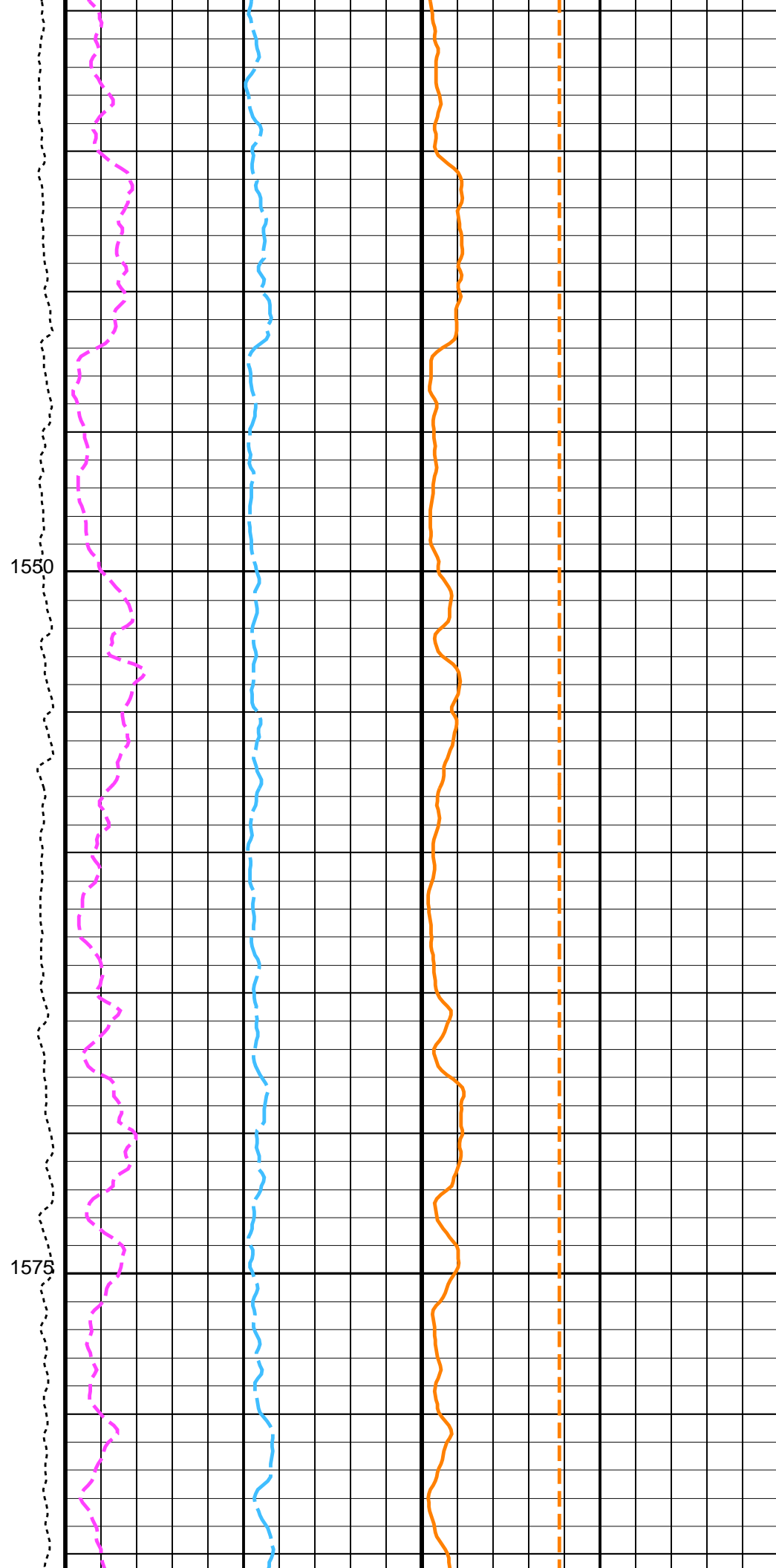
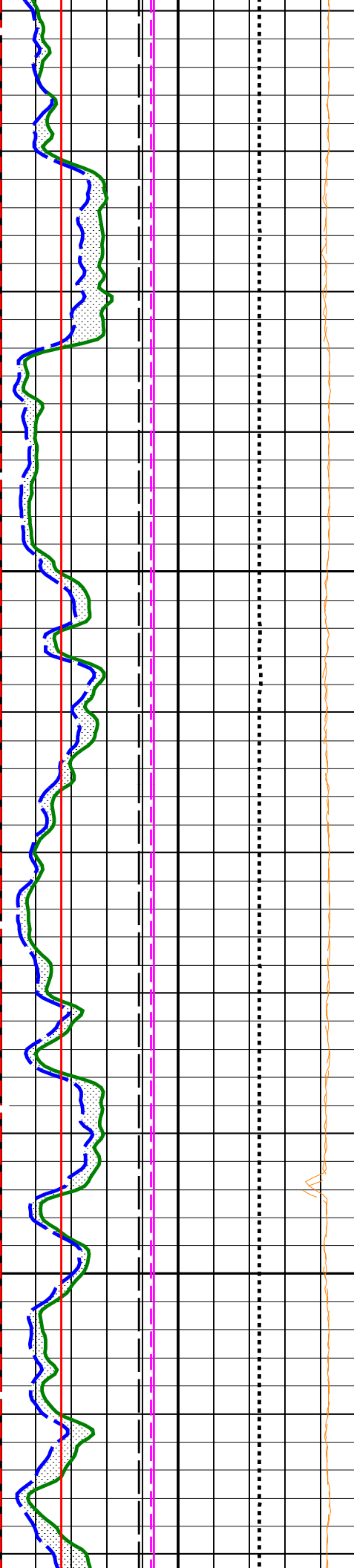


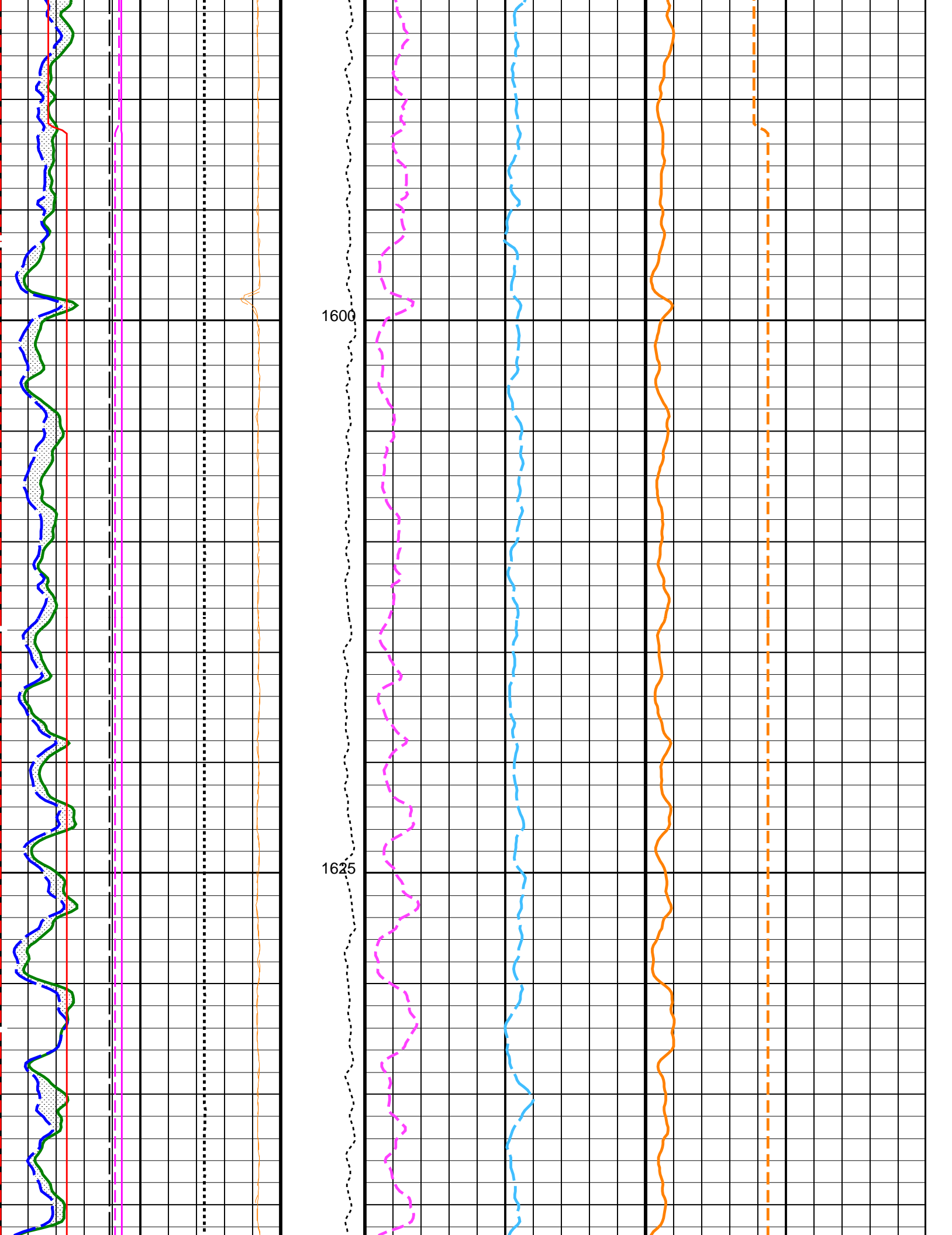
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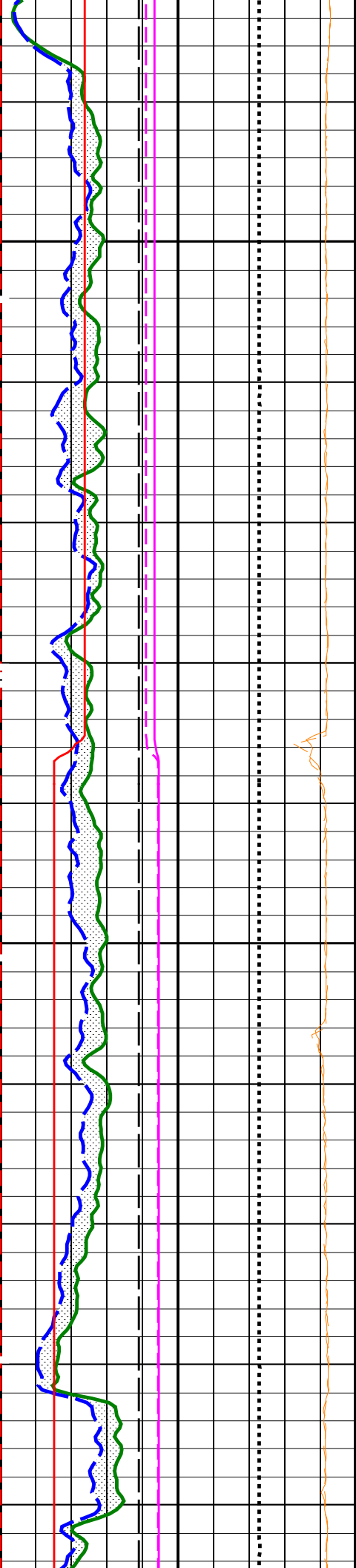
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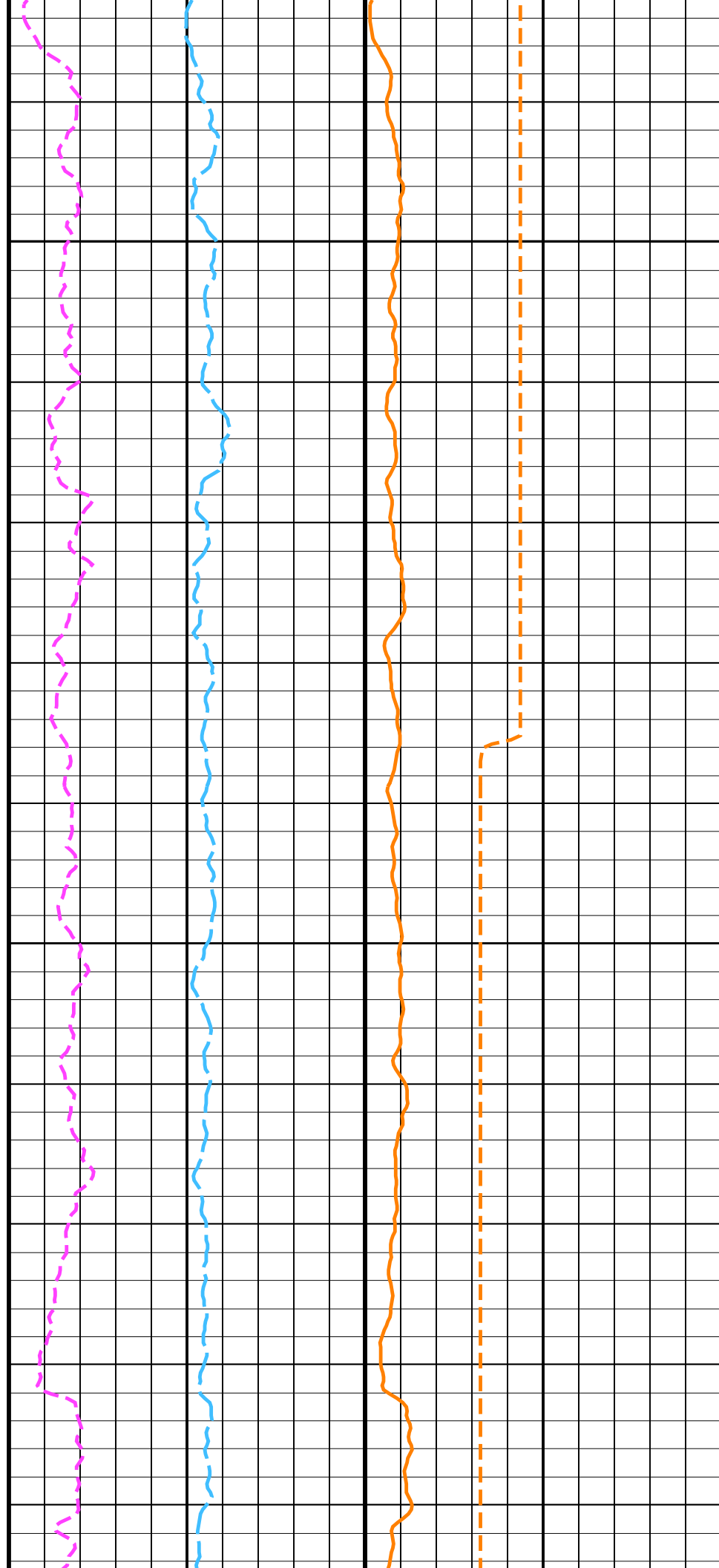


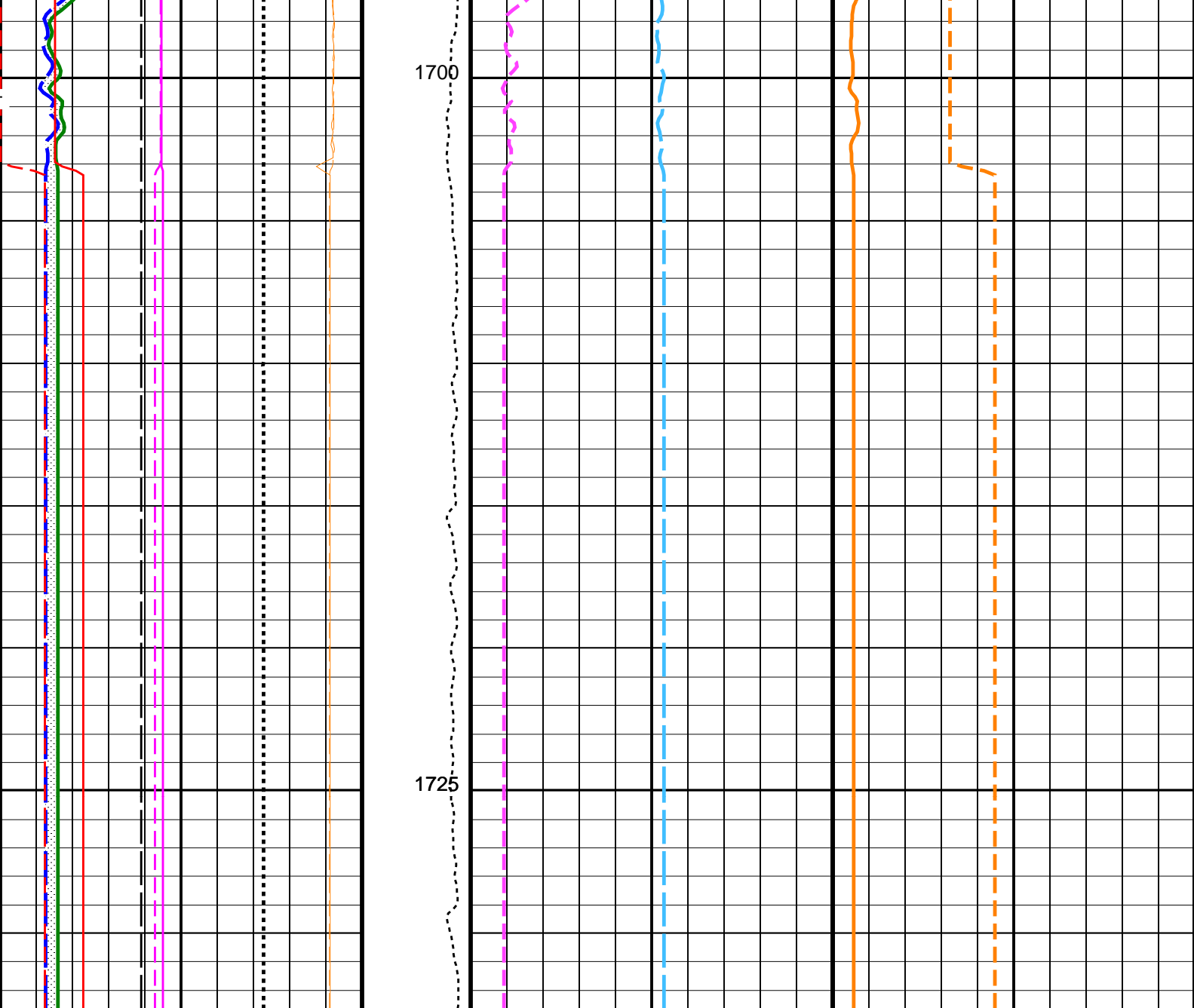




1650

1675





<div>HNGS Det.1 Chi Squared (CHI1) (-----) 100</div>	<div>Tension (TENS) (LBF) 100000</div>	<div>HNGS Thorium (HTHO) (PPM) 030</div>	<div>HNGS Potassium (HFK) (V/V) 00.1</div>
<div>HNGS Det.2 Chi Squared (CHI2) (-----) 100</div>		<div>HNGS Uranium (HURA) (PPM) -1030</div>	
<div>Bit Size (BS) (IN) 616</div>			<div>HNGS Borehole Potassium (HBHK) (V/V) -0.050.05</div>
<div>Caliper (LCAL) (IN) 616</div>			
<div>HNGS Computed Gamma Ray (HCGR) (GAPI) 0150</div>			
<div>Area1 From HCGR to HSGR</div>			
<div>HNGS Det.1 Gain Correction Factor (GCF1) (-----) 0.91.1</div>			
<div>HNGS Det.2 Gain Correction Factor (GCF2)</div>			

0.9	(-----)	1.1
HNGS Det.1 Resolution Degradation Factor (RDF1)		
0	(-----)	10
HNGS Det.2 Resolution Degradation Factor (RDF2)		
0	(-----)	10
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	150

PIP SUMMARY		
Time Mark Every 60 S		

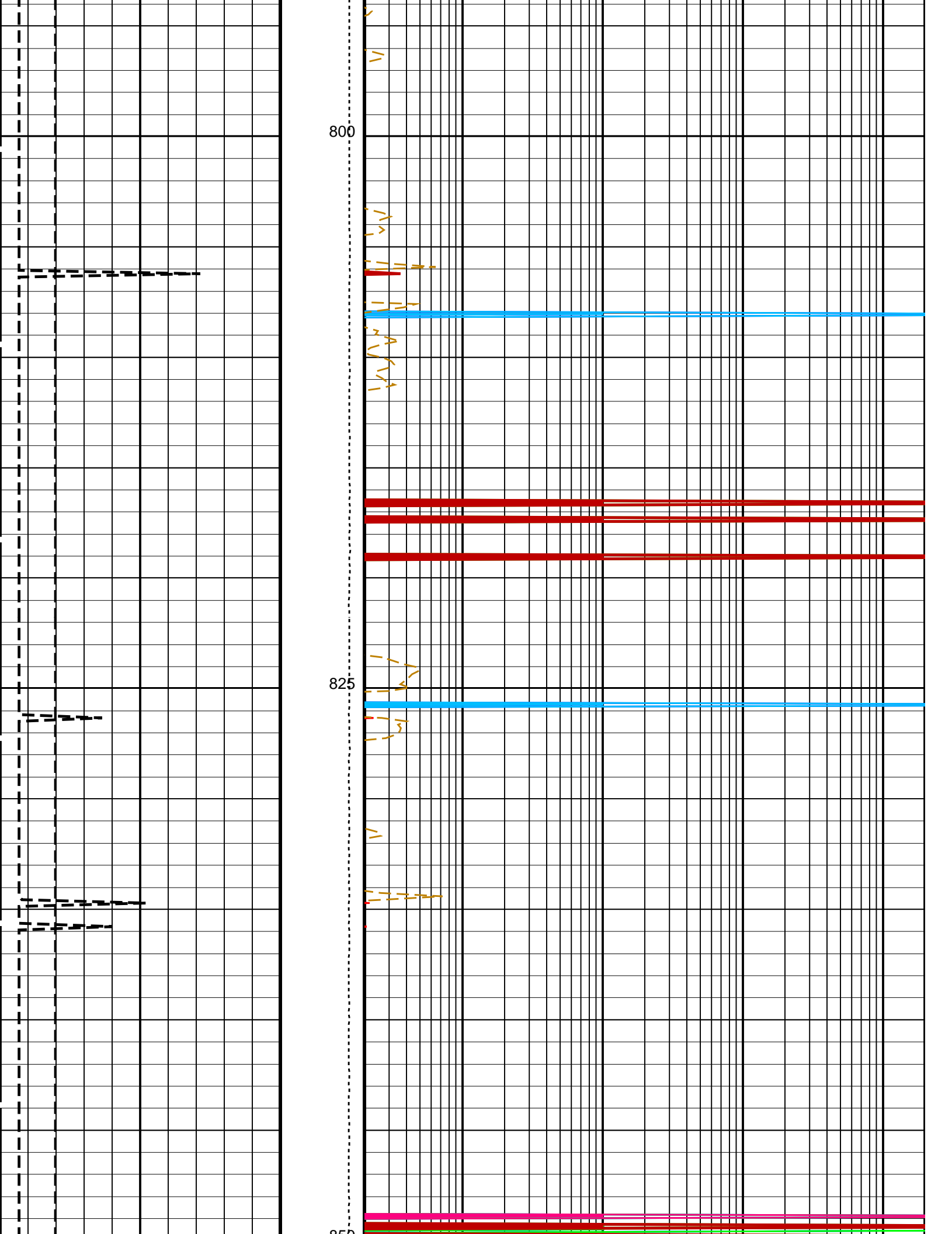
Parameters			
DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0231307	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.974661	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.947239	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

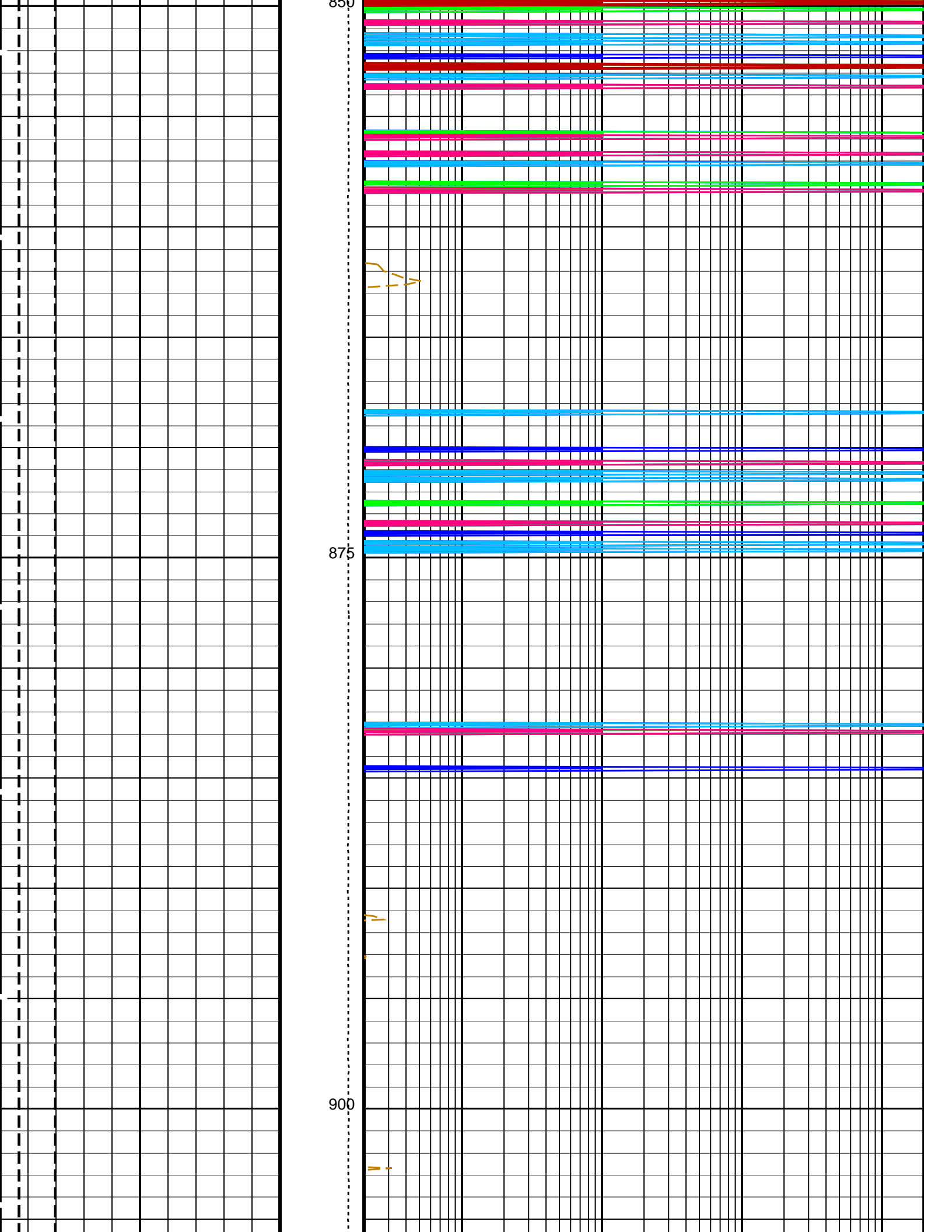
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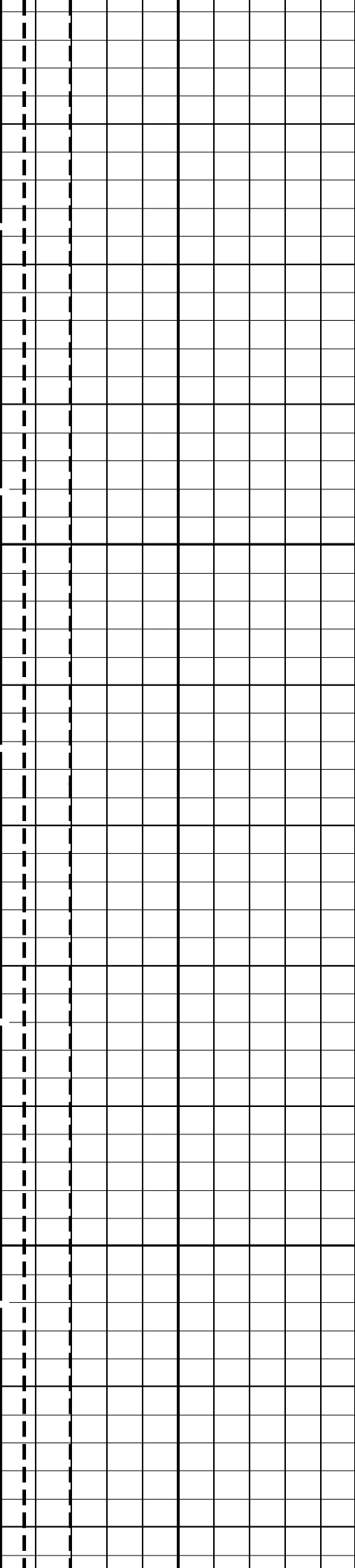
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HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

Input DLIS Files					
DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	30-Jan-2024 00:54	1732.6 M	772.7 M
Output DLIS Files					
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Company: International Ocean Discovery Program	Well: Expedition 401, Site U1611A
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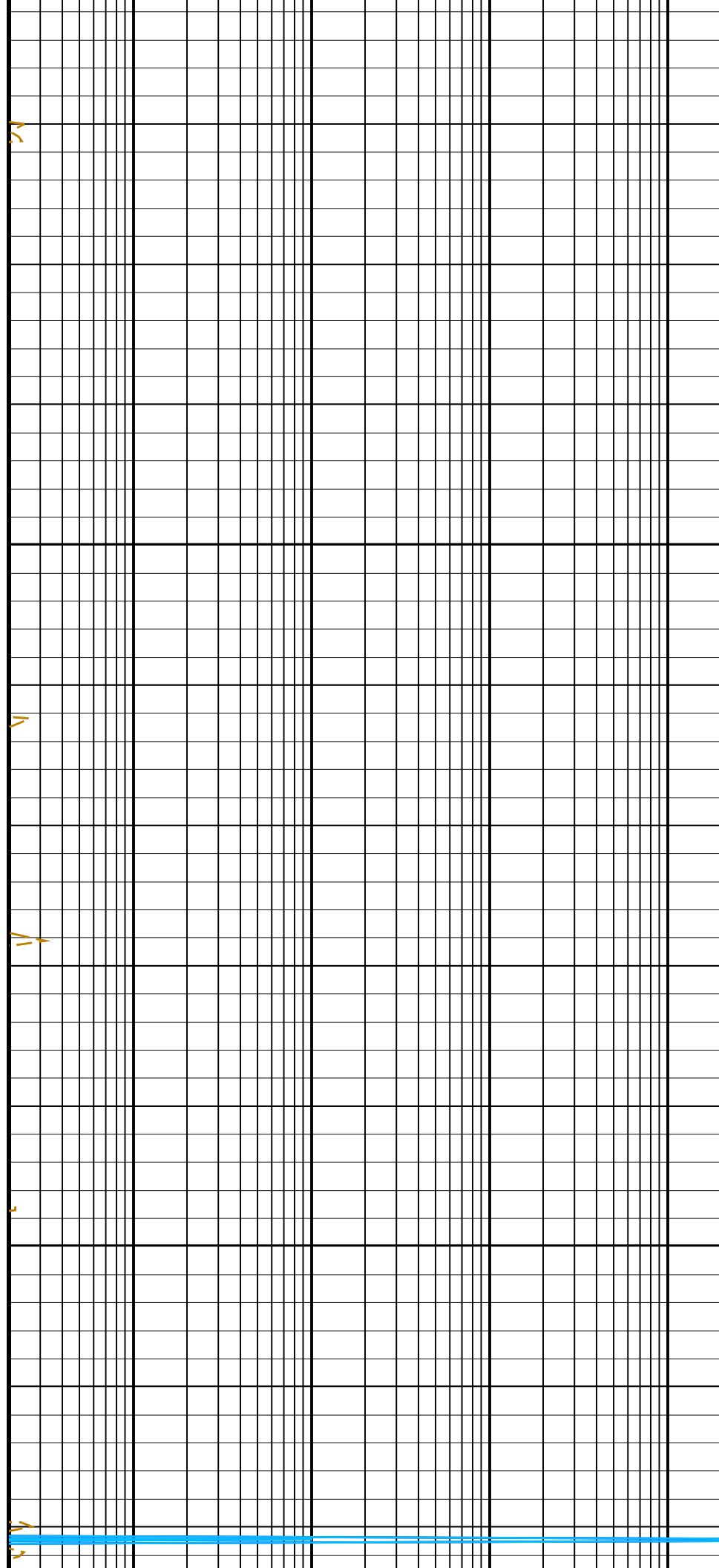


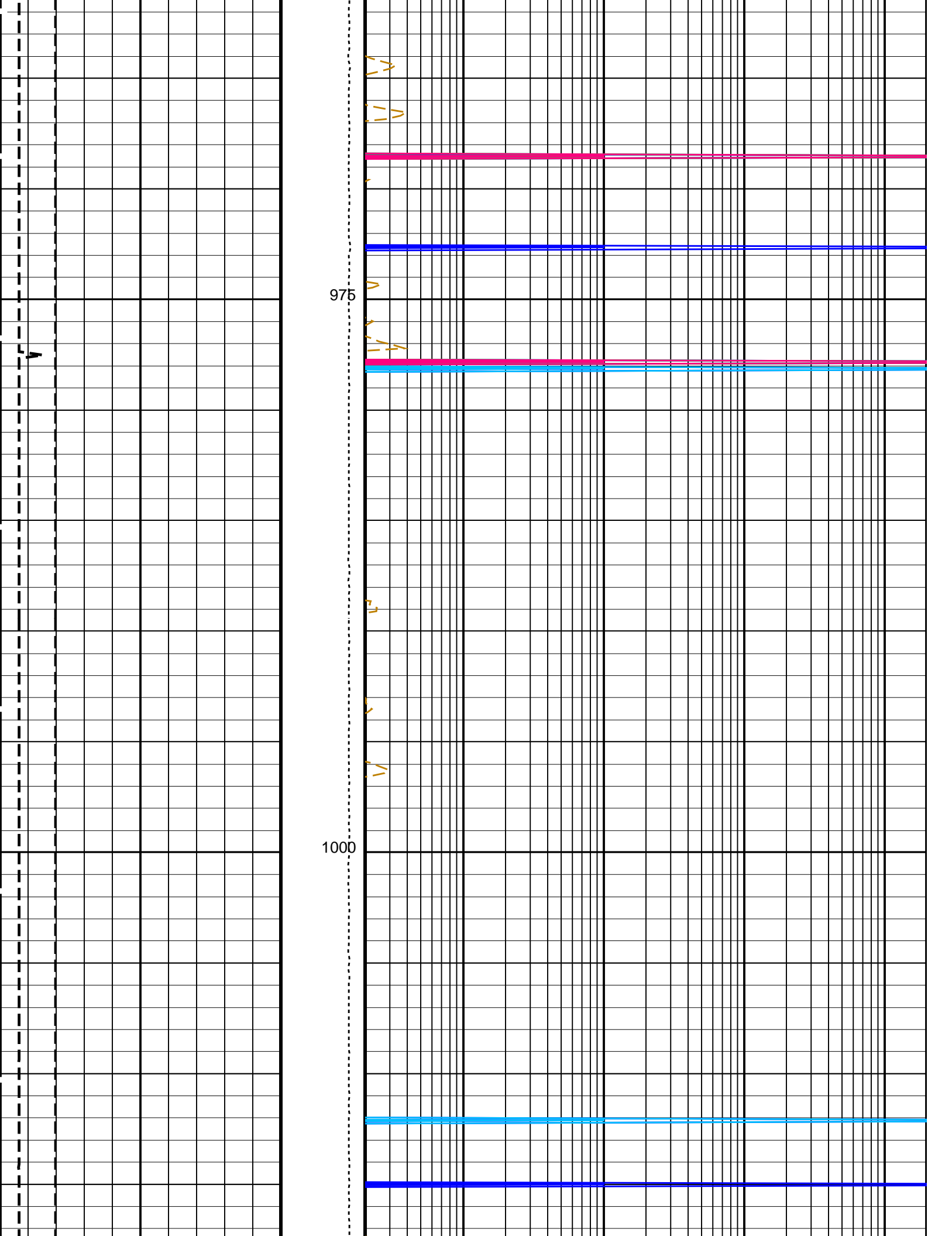


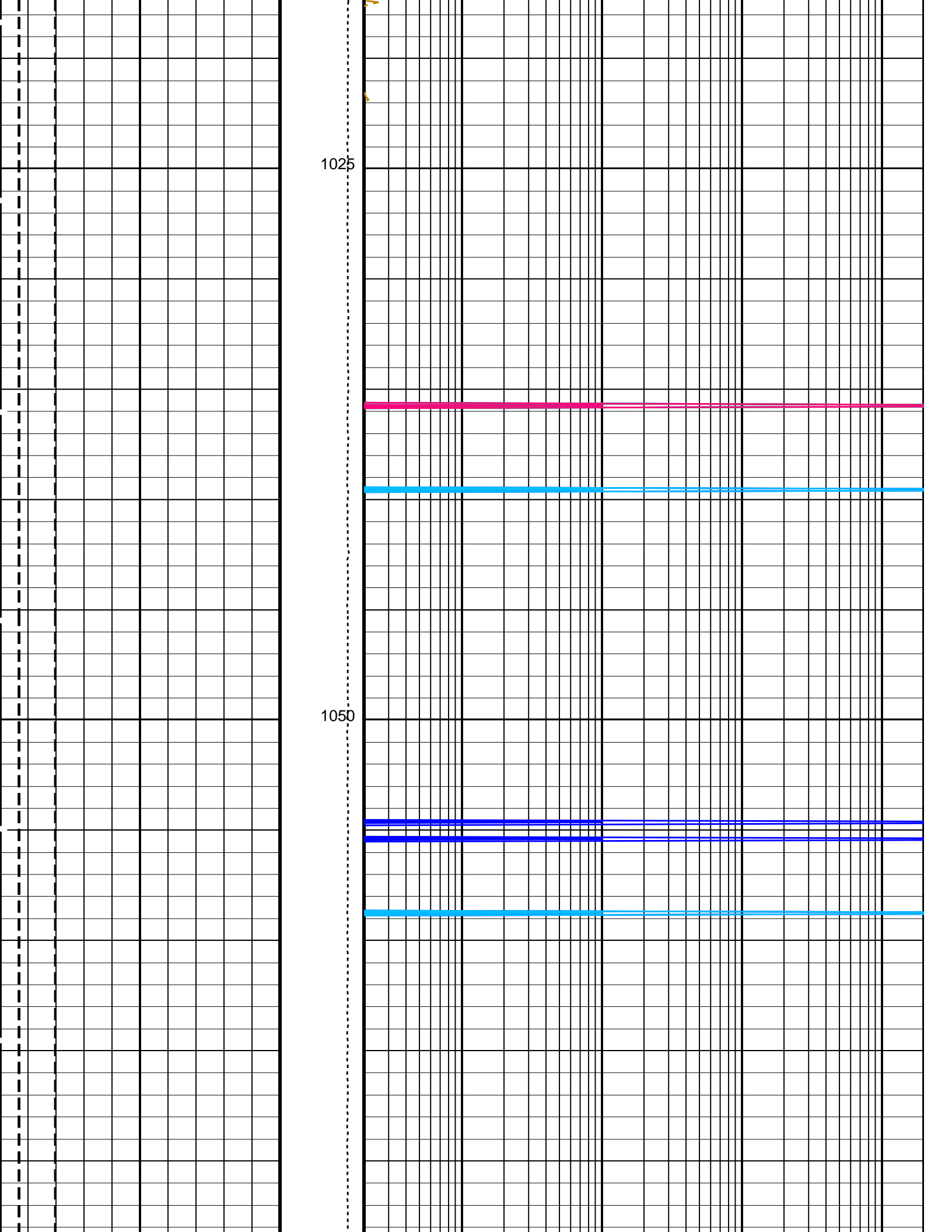


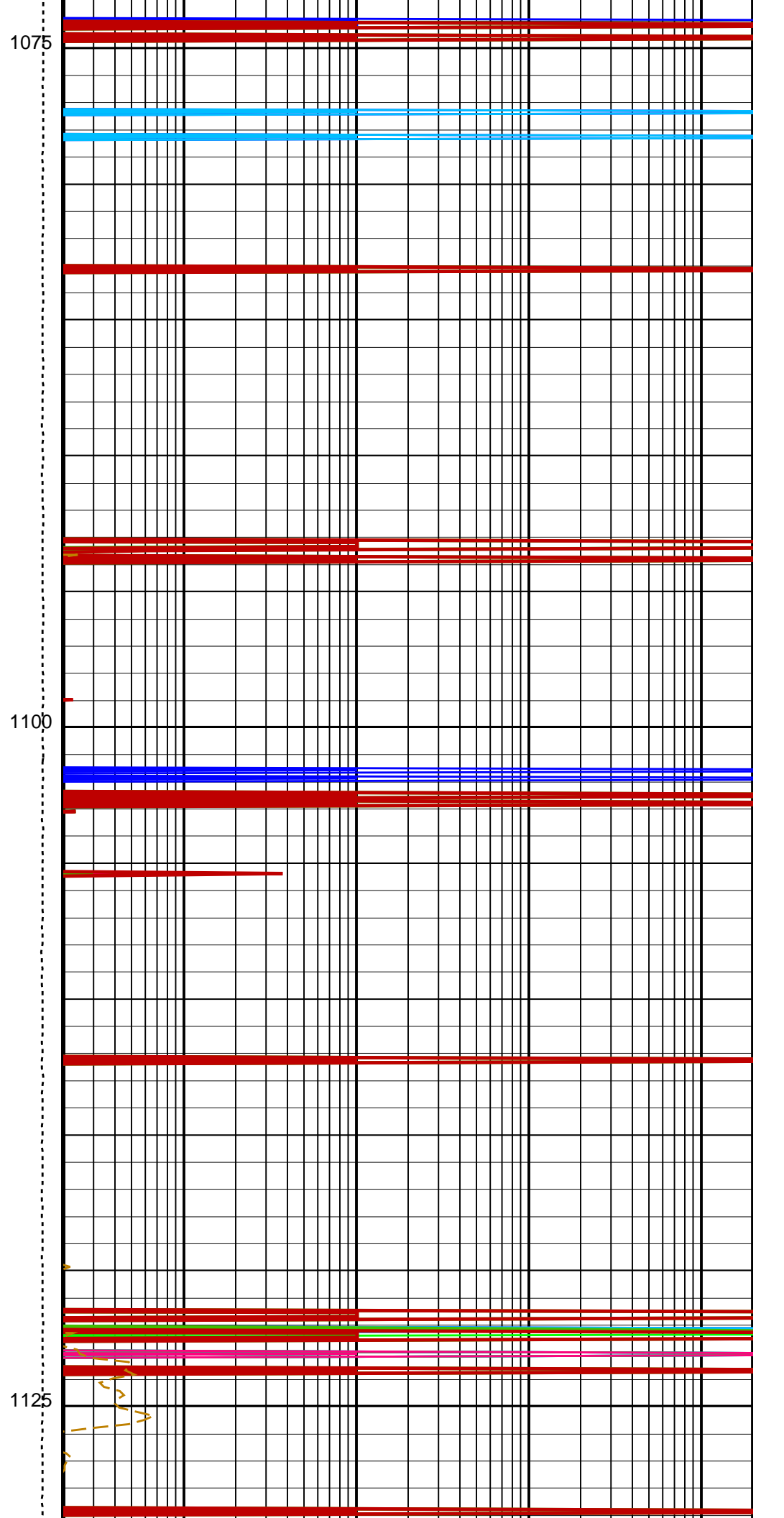
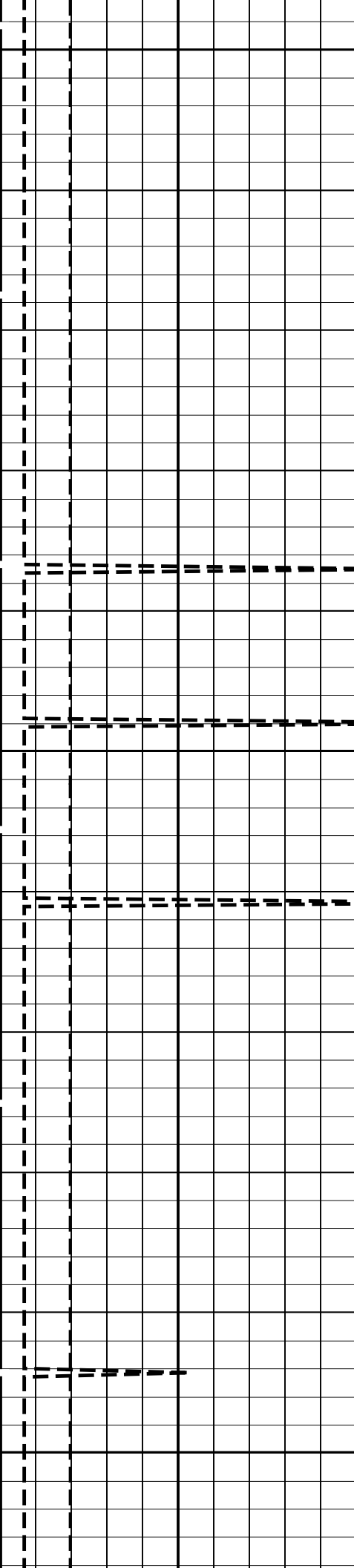
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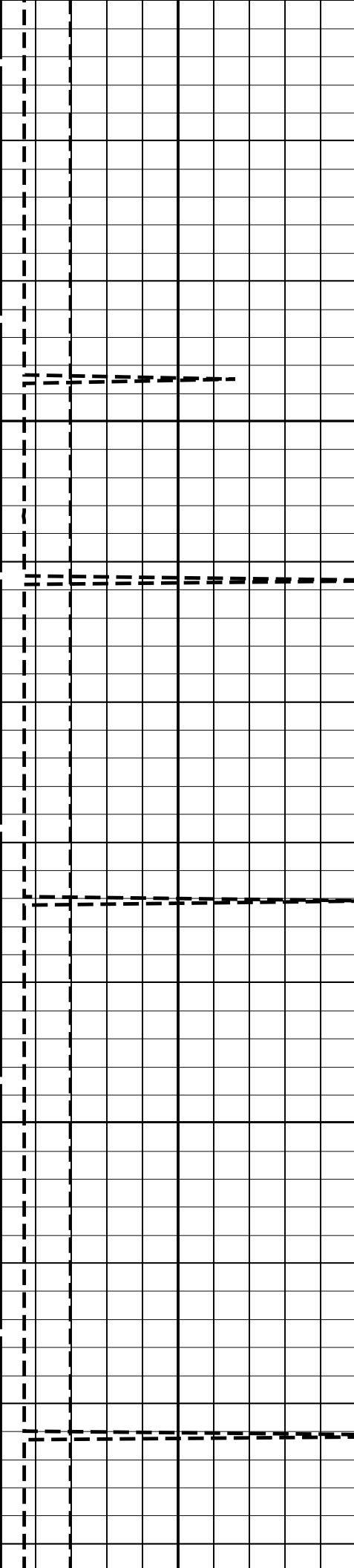
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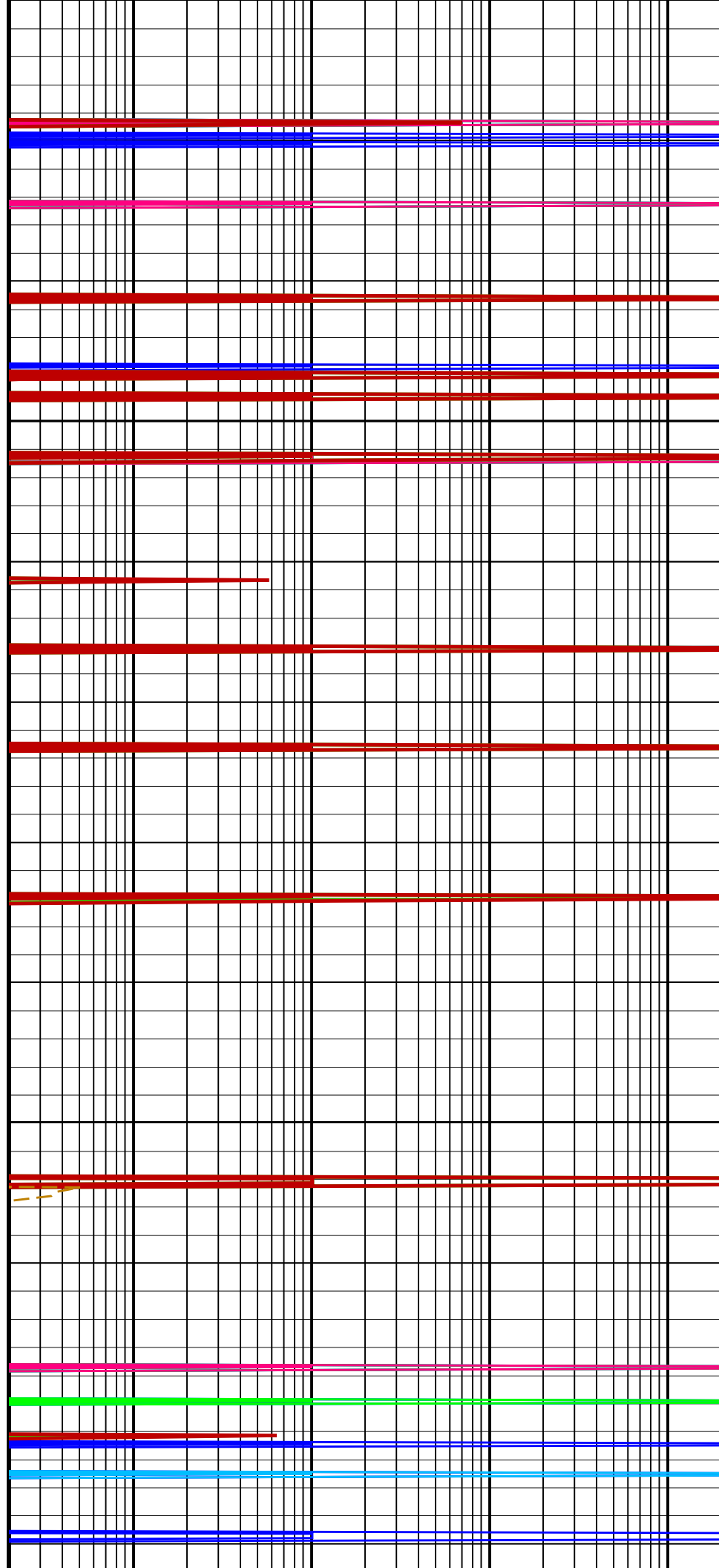


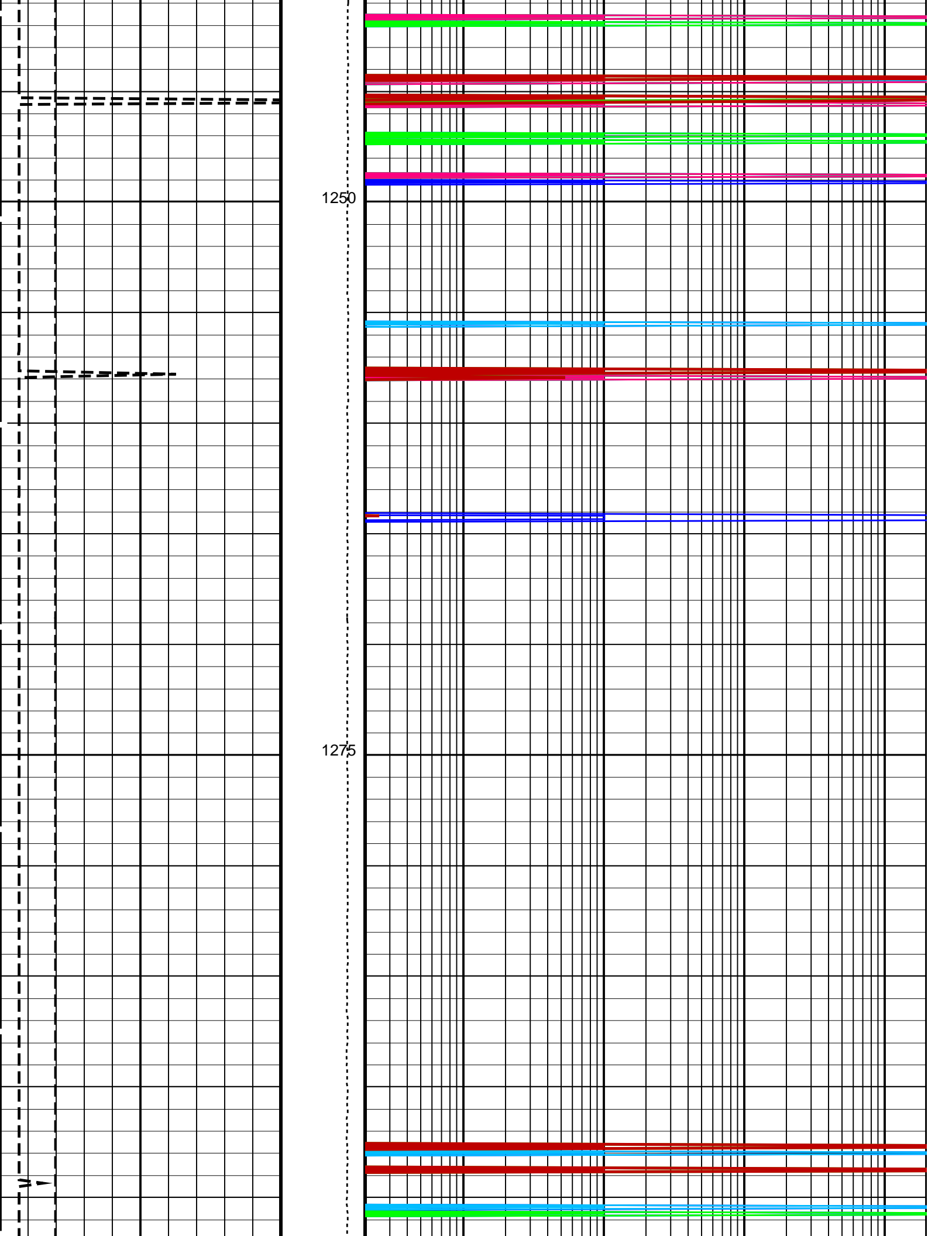


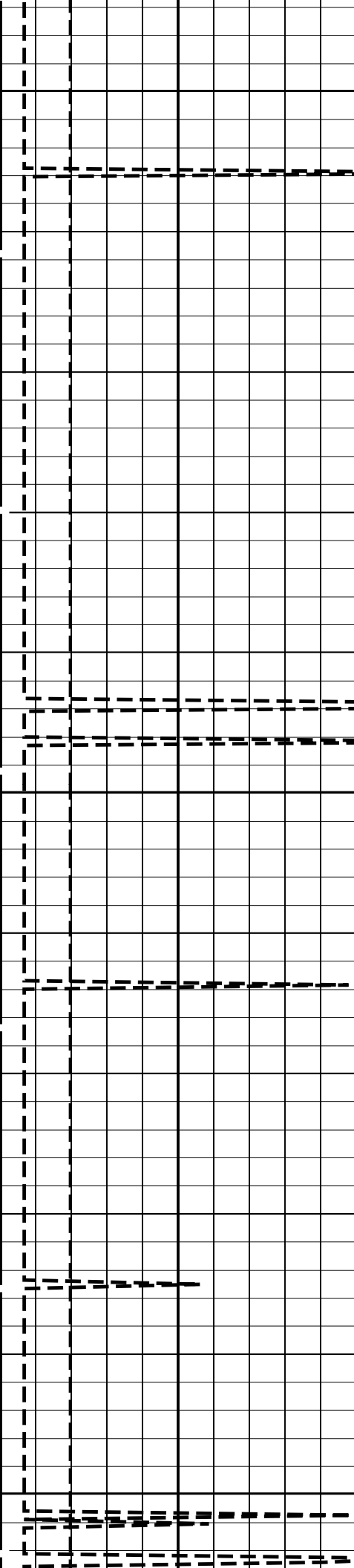


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1225



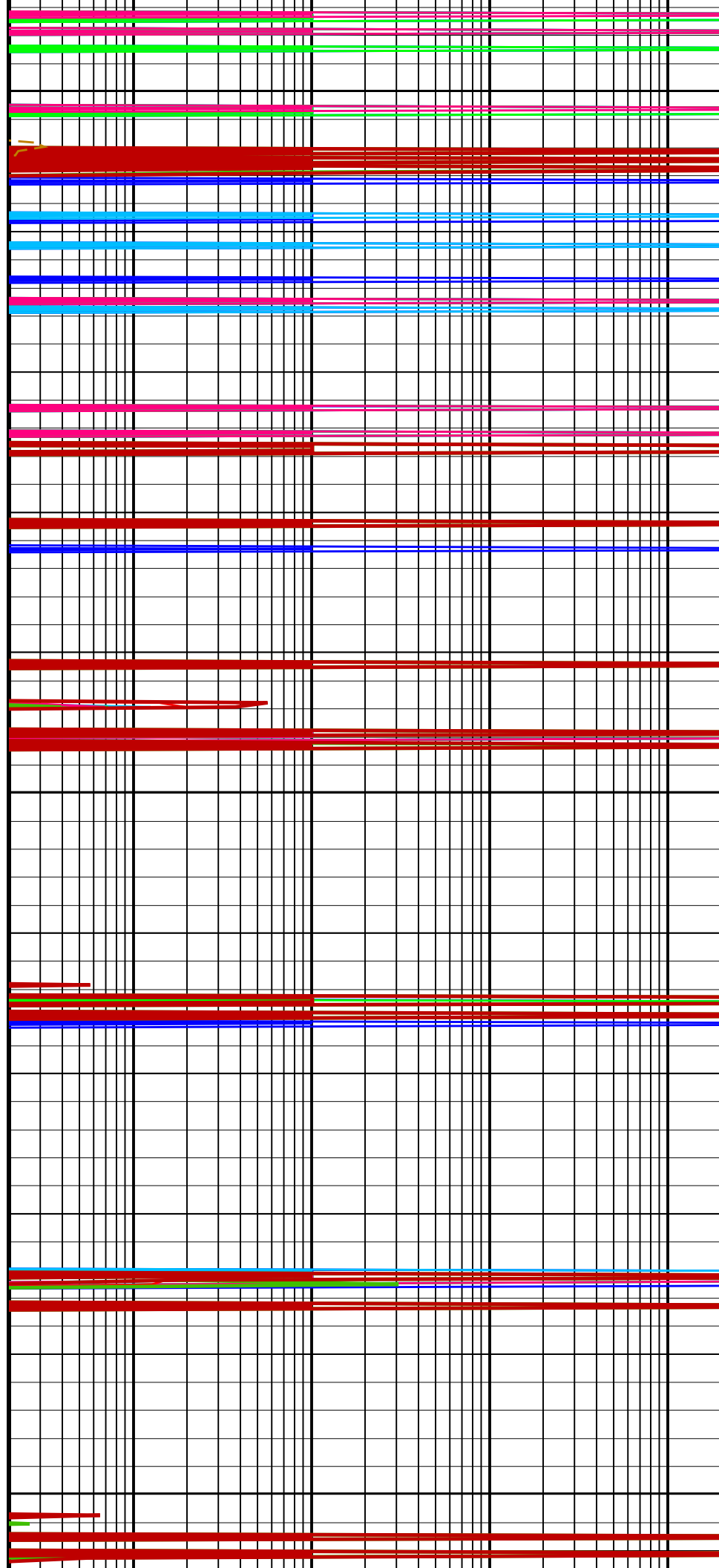


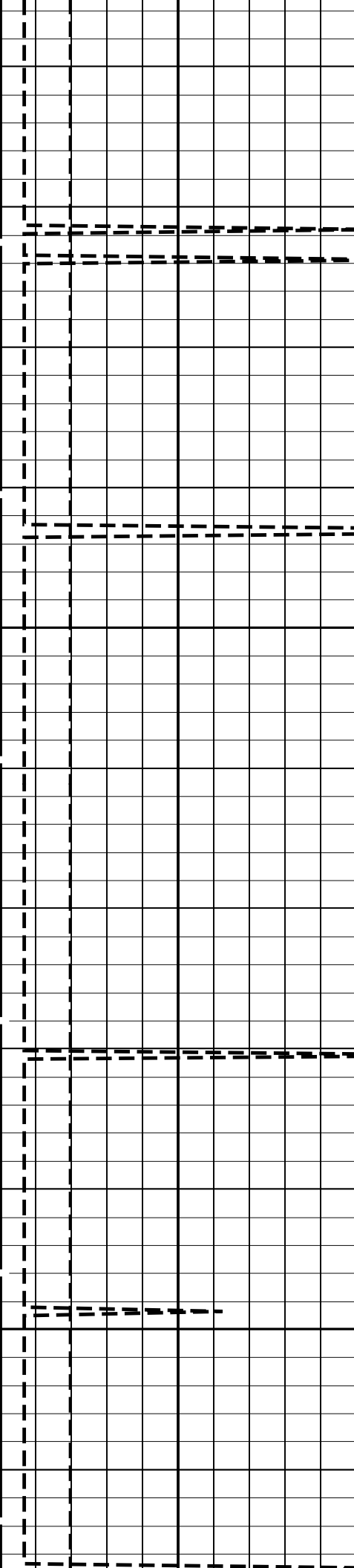


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1325

1350

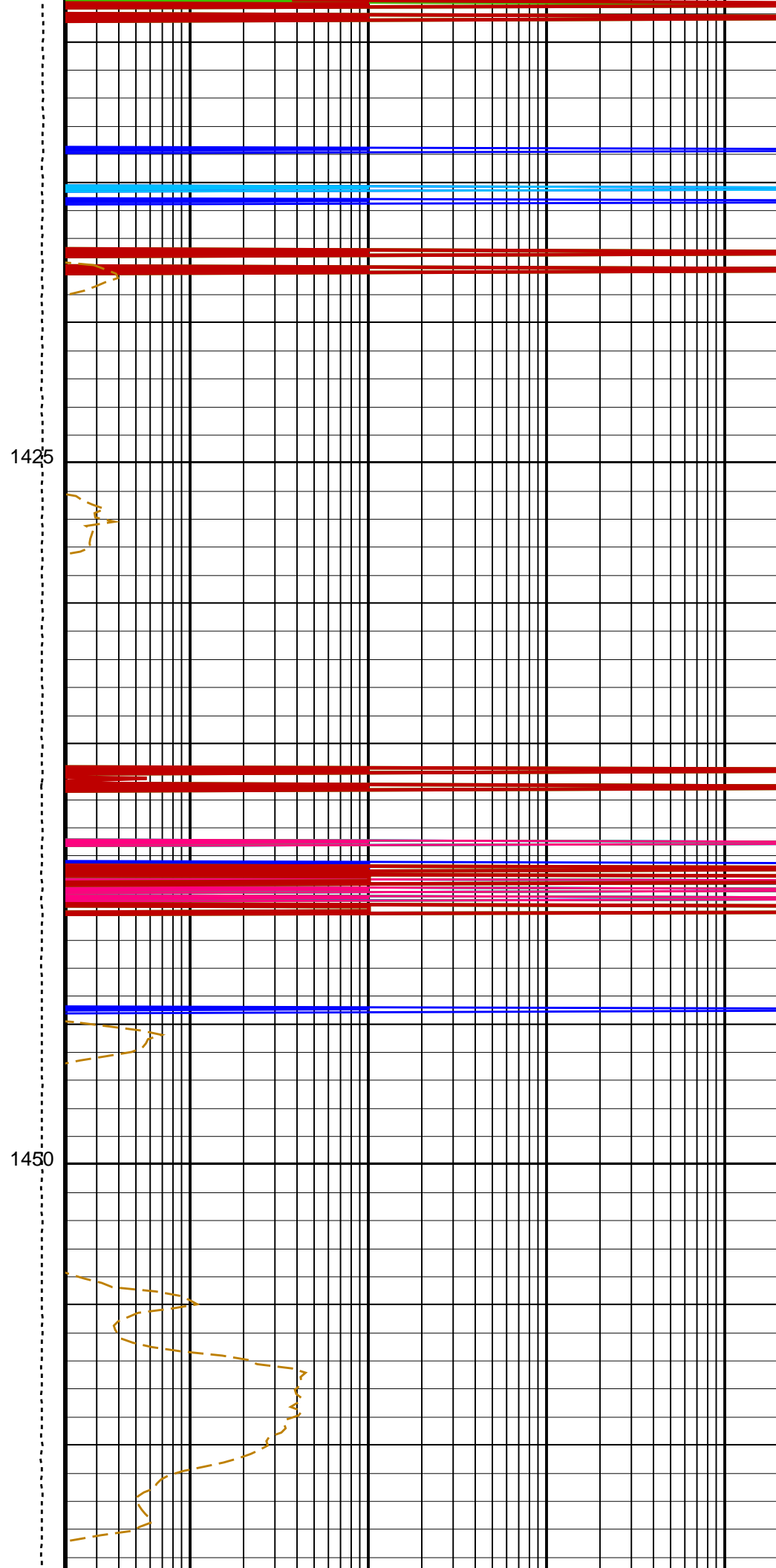
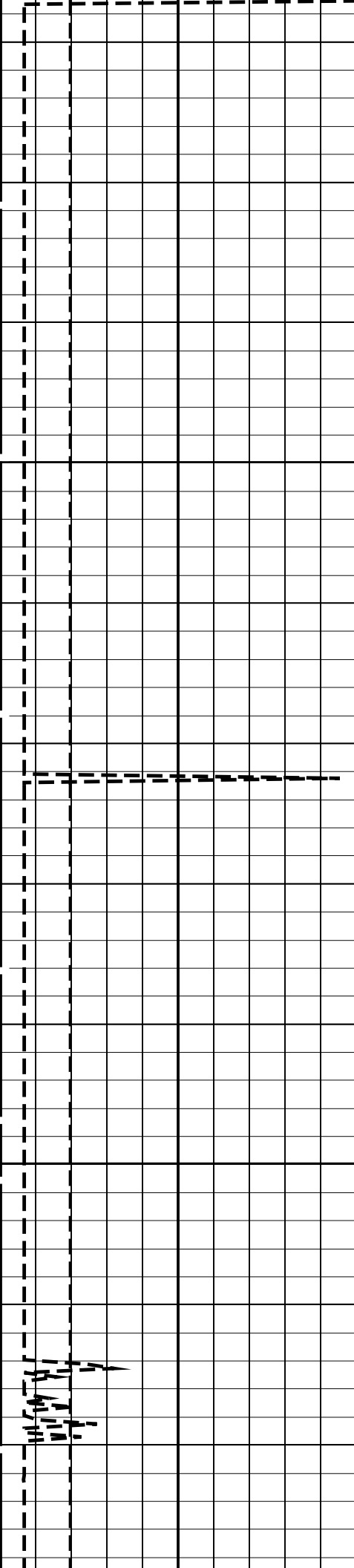


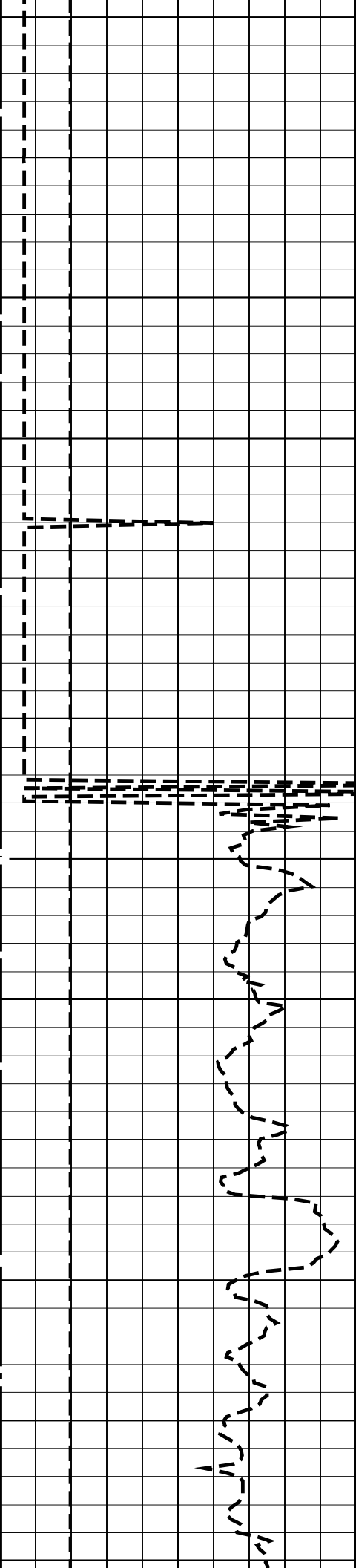


1375

1400

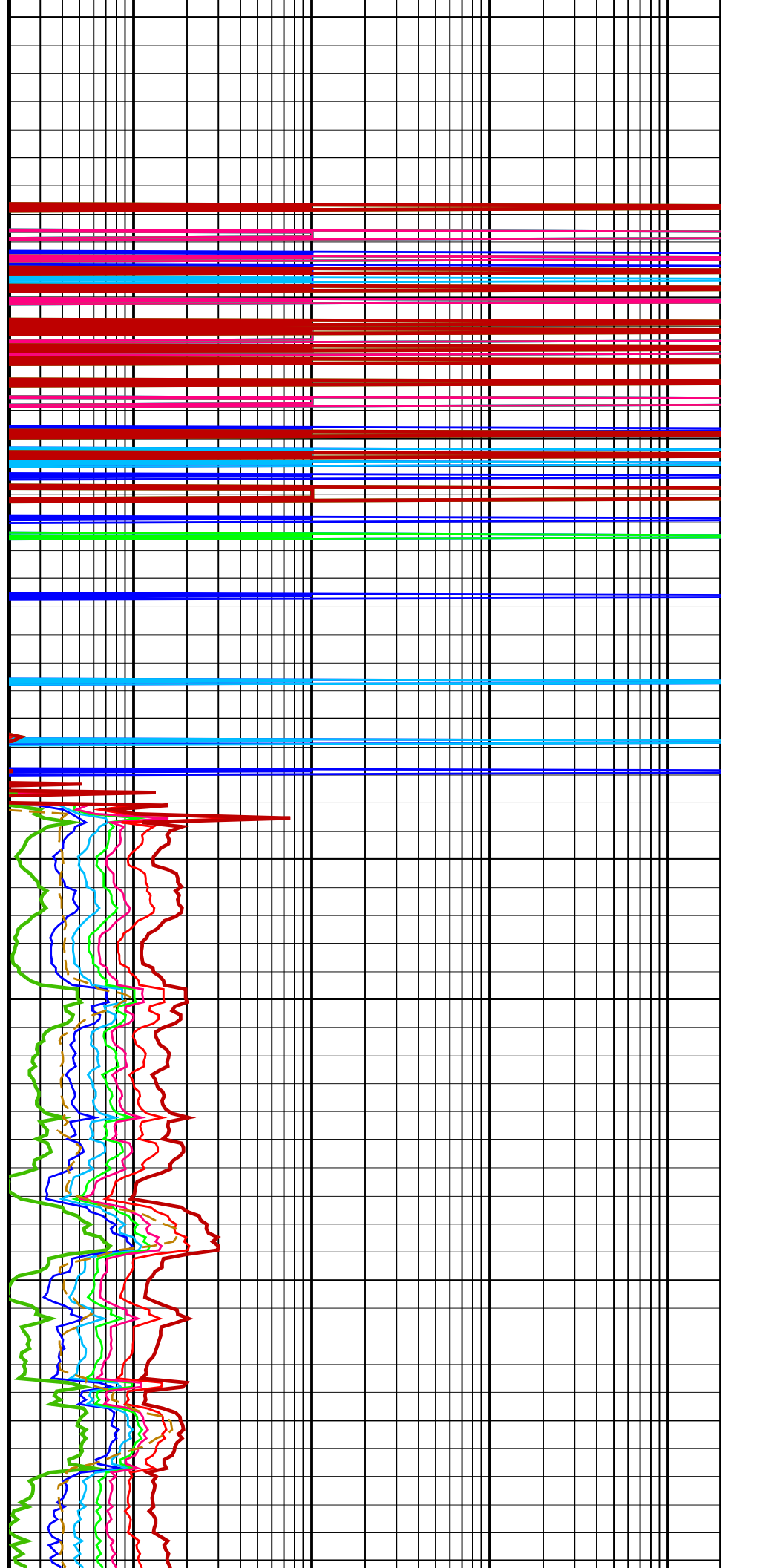


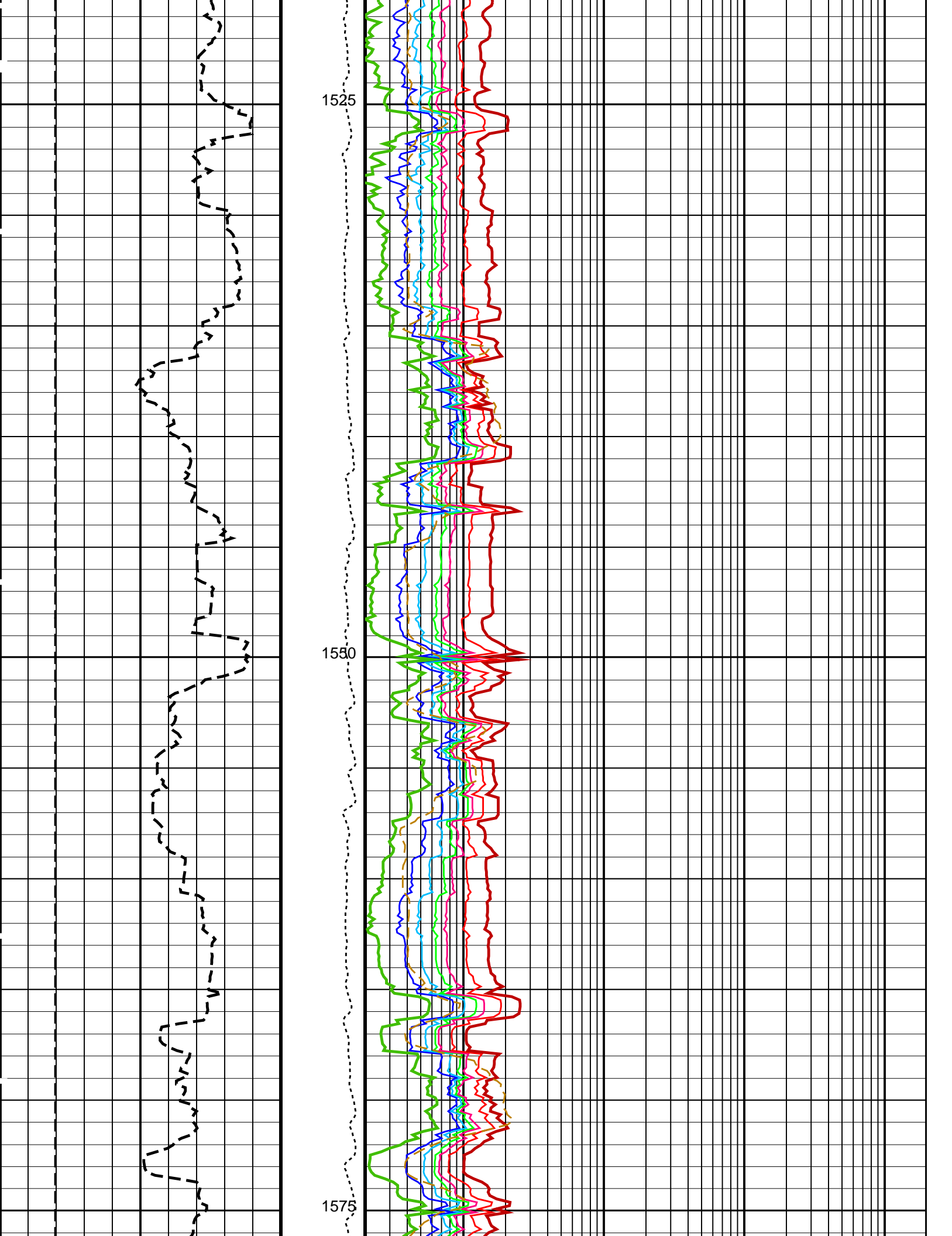


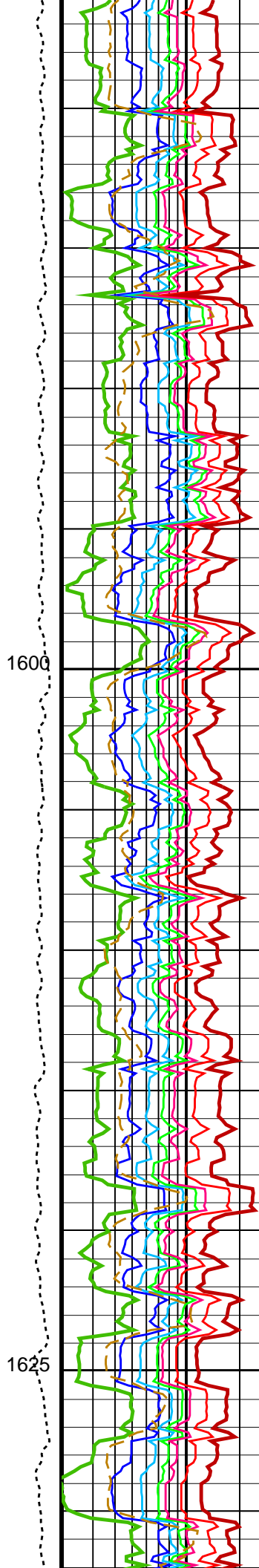
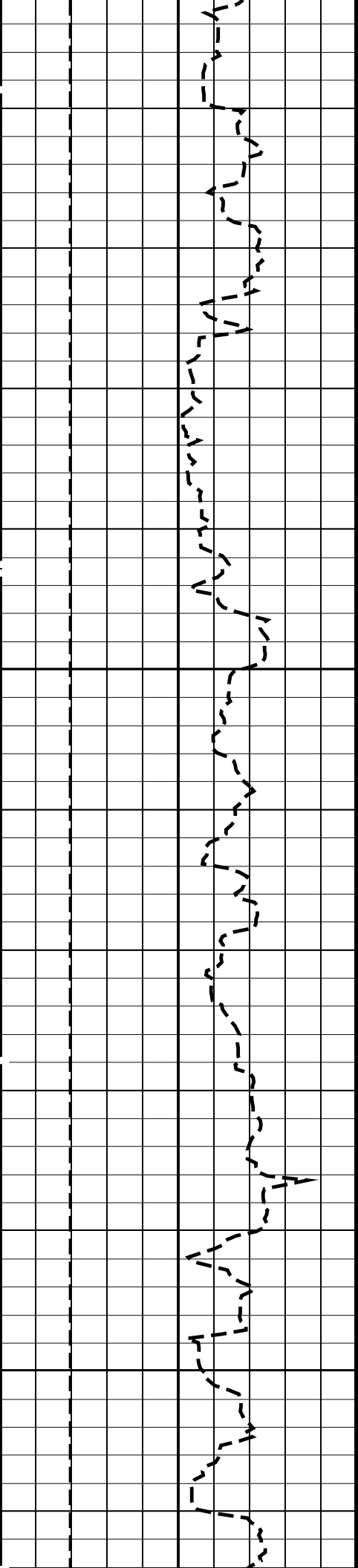


1475

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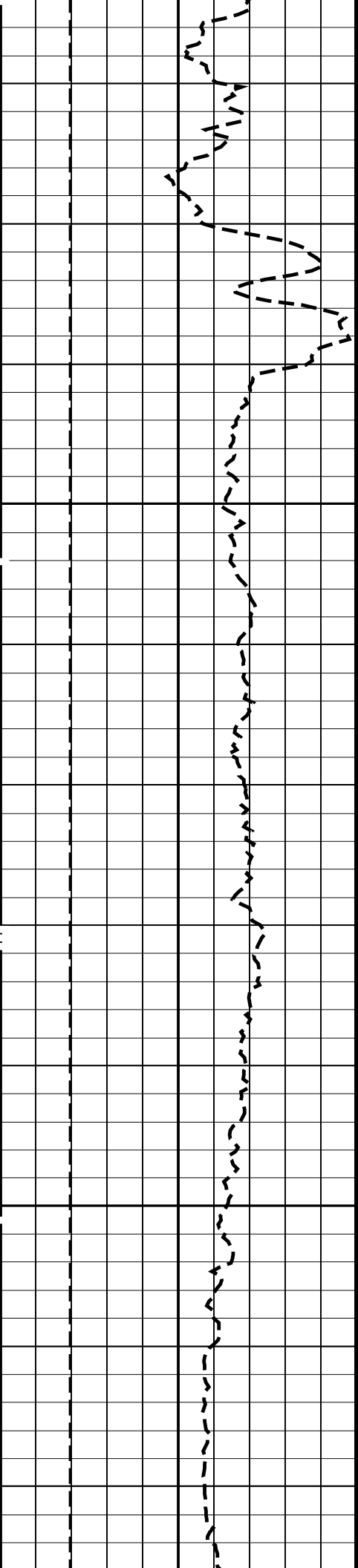






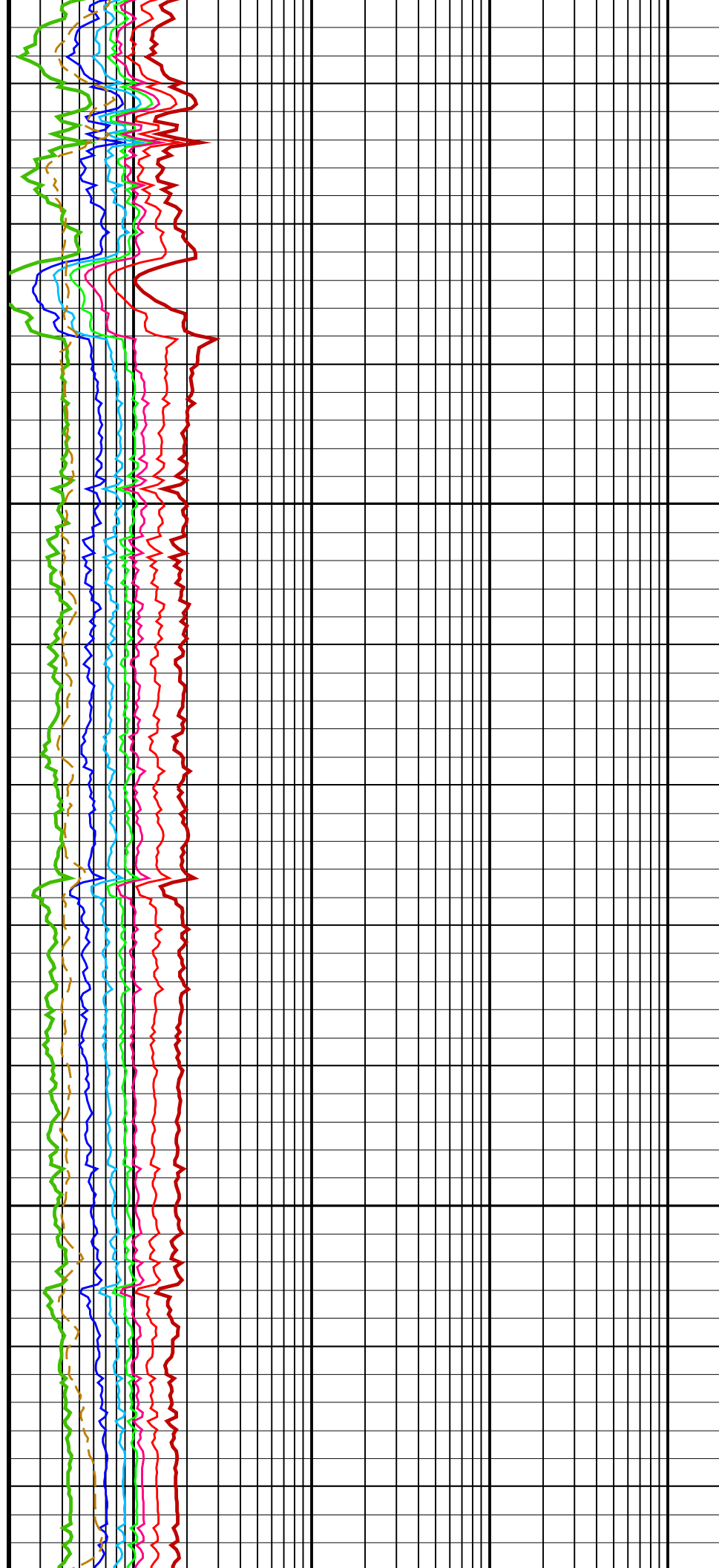
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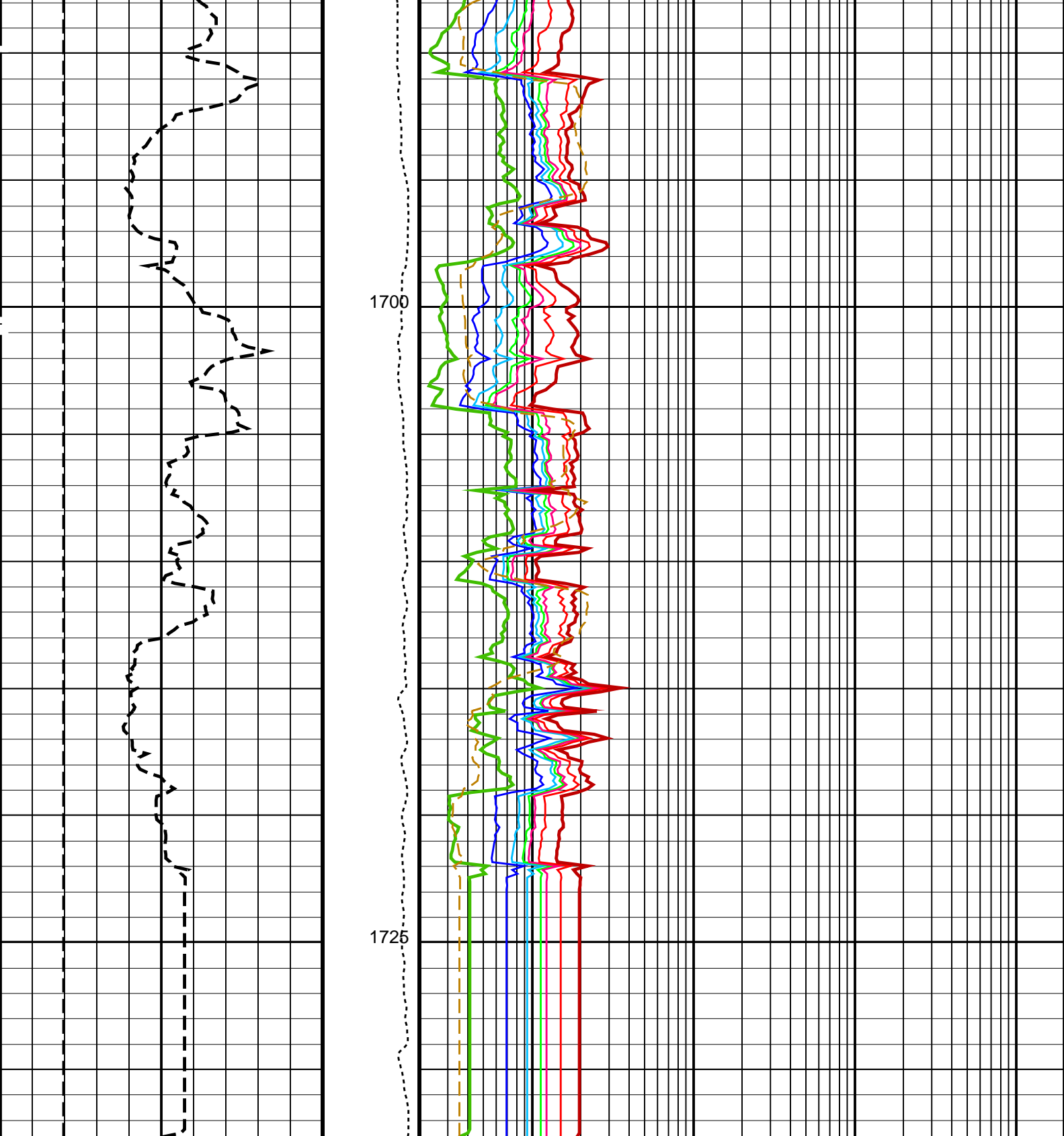
1625



1650

1675





<div>Bit Size (BS) (IN)</div> <div>626</div>	<div>Tension (TENS) (LBF)</div> <div>100000</div>	<div>HRLT Resistivity 1 (RLA1) (OHMM)</div> <div>0.22000</div>
<div>Invasion Diameter (DI_HRLT) (IN)</div> <div>050</div>		<div>HRLT Resistivity 2 (RLA2) (OHMM)</div> <div>0.22000</div>
		<div>HRLT Resistivity 3 (RLA3) (OHMM)</div> <div>0.22000</div>
		<div>HRLT Resistivity 4 (RLA4) (OHMM)</div> <div>0.22000</div>

	HRLT Resistivity 5 (RLA5)	0.2	(OHMM)	2000
	HRLT Mud Resistivity (RM_HRLT)	0.02	(OHMM)	200
	Invaded Zone Resistivity (RXO_HRLT)	0.2	(OHMM)	2000
	HRLT True Resistivity (RT_HRLT)	0.2	(OHMM)	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters				
DLIS Name	Description	Value		
HRLT-B: High Resolution Laterolog Array – B				
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF	
GCSE	Generalized Caliper Selection	LCAL		
GGRD	Geothermal Gradient	0.01	DF/F	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
KFAC_HRLT	HRLT K Factor Option	SONDE		
PROCINV	Inversion Selection	ON		
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO		
PROCMSO	Mechanical Standoff Fin Size	0	IN	
PROCRM	Processing Mud Resistivity Select	HRLT_Compute		
PROCSPO	Sonde Position	Centered		
SHT	Surface Hole Temperature	68	DEGF	
HNGS-BA: Hostile Natural Gamma Ray Sonde				
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF	
GCSE	Generalized Caliper Selection	LCAL		
GGRD	Geothermal Gradient	0.01	DF/F	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
SHT	Surface Hole Temperature	68	DEGF	
EDTC-B: Enhanced DTS Cartridge				
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF	
GCSE	Generalized Caliper Selection	LCAL		
GGRD	Geothermal Gradient	0.01	DF/F	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
SHT	Surface Hole Temperature	68	DEGF	
System and Miscellaneous				
BS	Bit Size	9.875	IN	
DO	Depth Offset for Playback	0.0	M	
MST	Mud Sample Temperature	23.00	DEGC	
PP	Playback Processing	NORMAL		
TD	Total Depth	10190.3	FT	

Format: HRLT

Vertical Scale: 1:200

Graphics File Created: 30-Jan-2024 03:48

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	30-Jan-2024 00:54	1732.6 M	772.7 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016PUP	FN:14	PRODUCER	30-Jan-2024 03:48
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Company: International Ocean Discovery Program

Well: Expedition 401, Site U1611A

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	30-Jan-2024 00:54	1732.6 M	772.7 M
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Output DLIS Files

MSS_LDEO_HRLA_LDL_016PUP

PRODUCER

1732.6 M

772.7 M

OP System Version: 19C0-187

HRLT-B	19C0-187
LDSC-B	19C0-187
HNGS-BA	19C0-187

PIP SUMMARY

Time Mark Every 60 S

Dual-Coil Susceptibility (MSSLSUS_LDEO)

(PPM)

90000

High-Res Susceptibility (MSSHSUS_LDEO)

(PPM)

90000

Axial Acceleration (MSSZACC_LDEO)

(M/S2)

20

Tension (TENS)

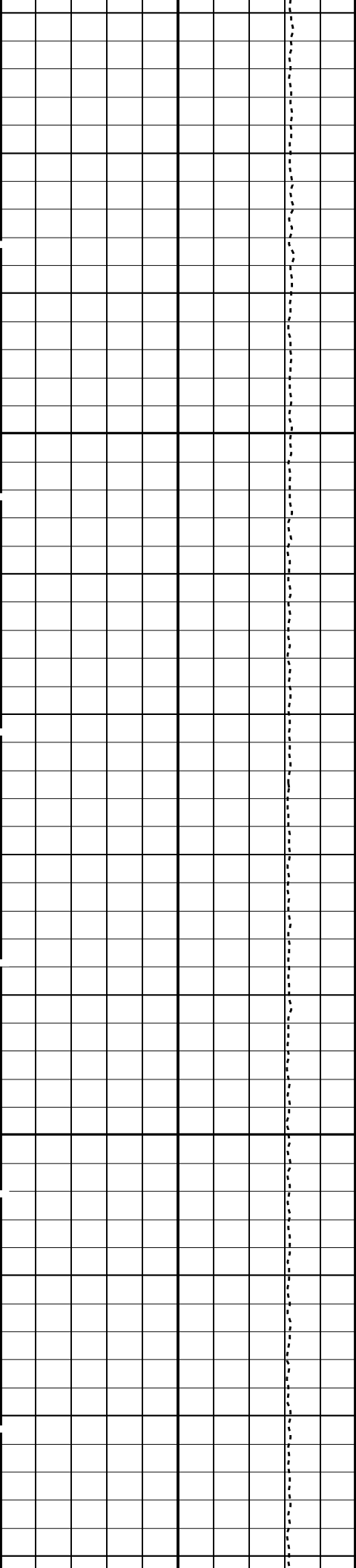
(LBF)

10000

0

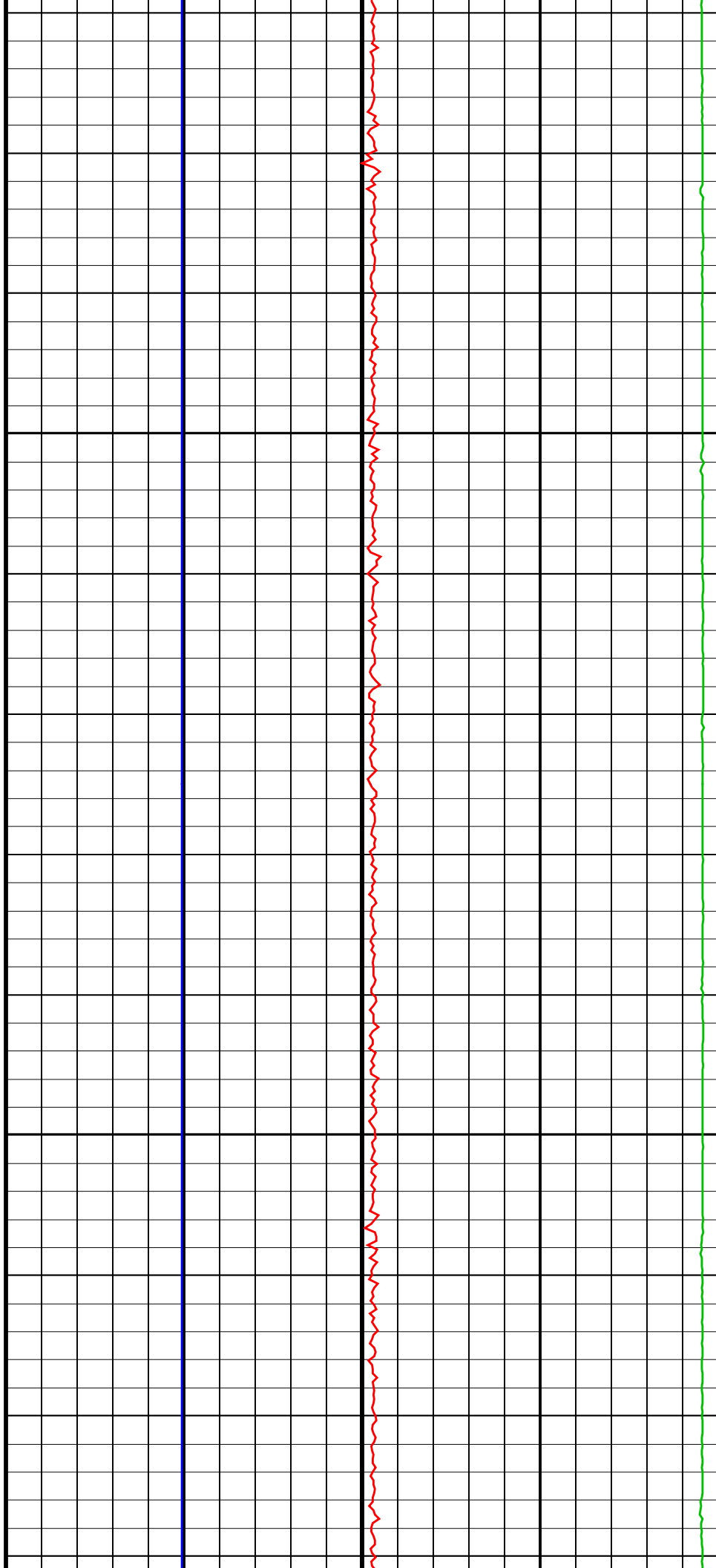
775

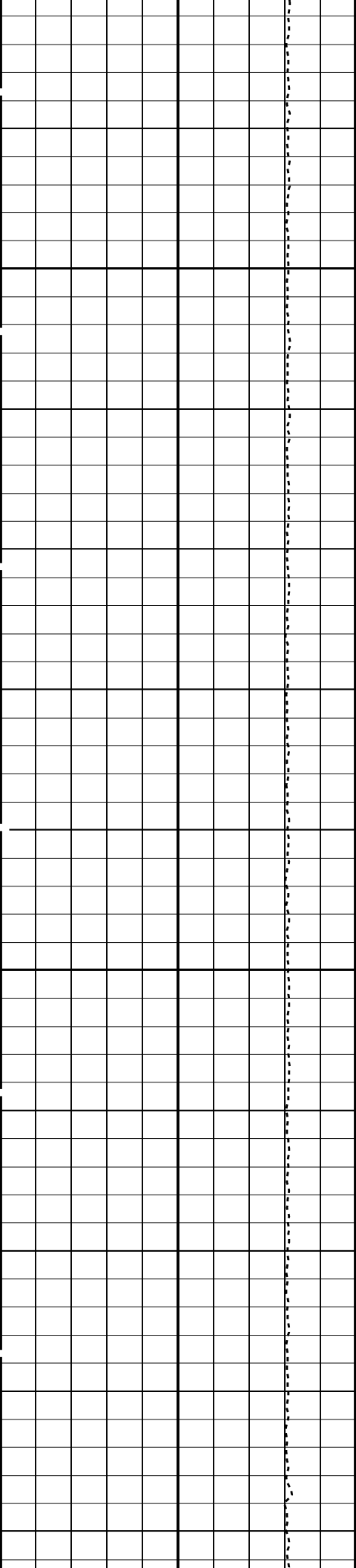
800



825

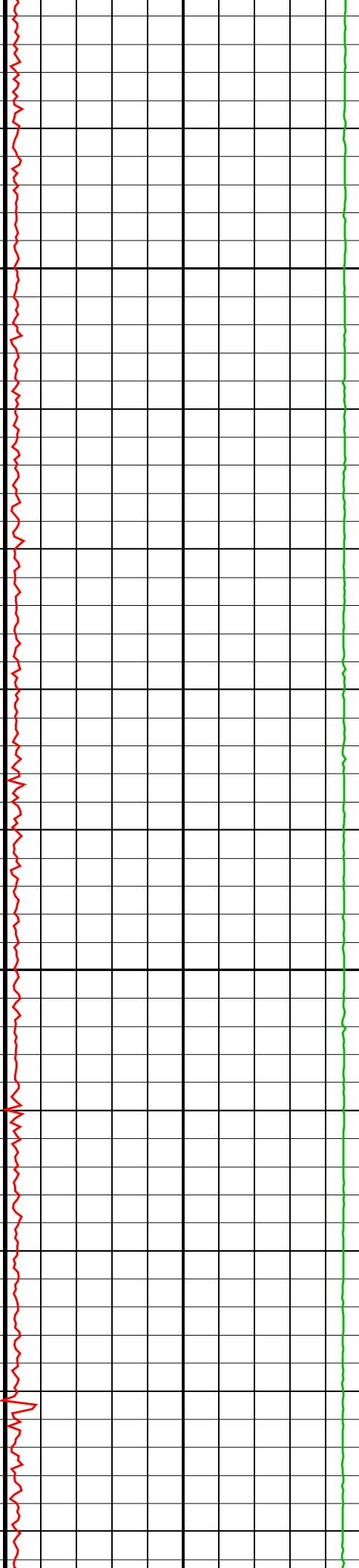
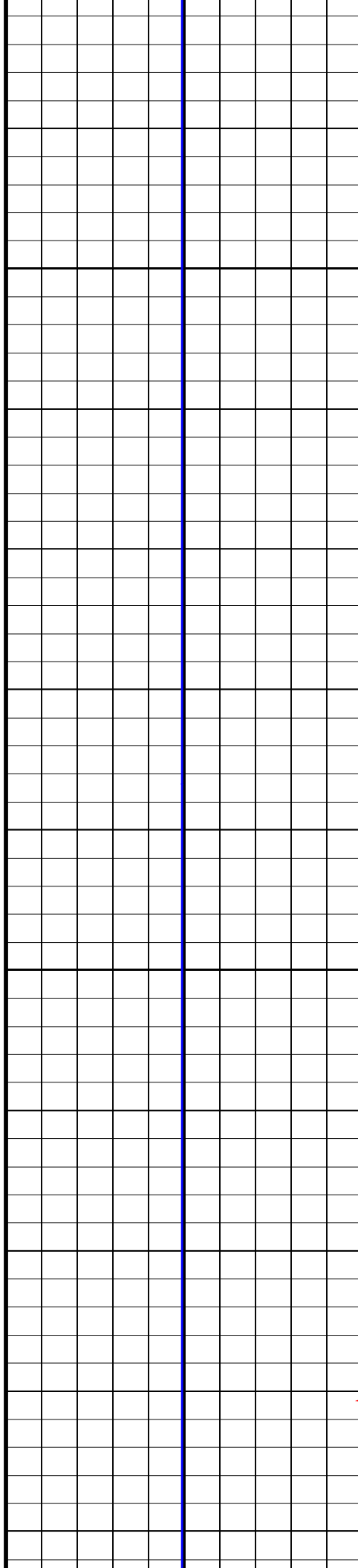
850

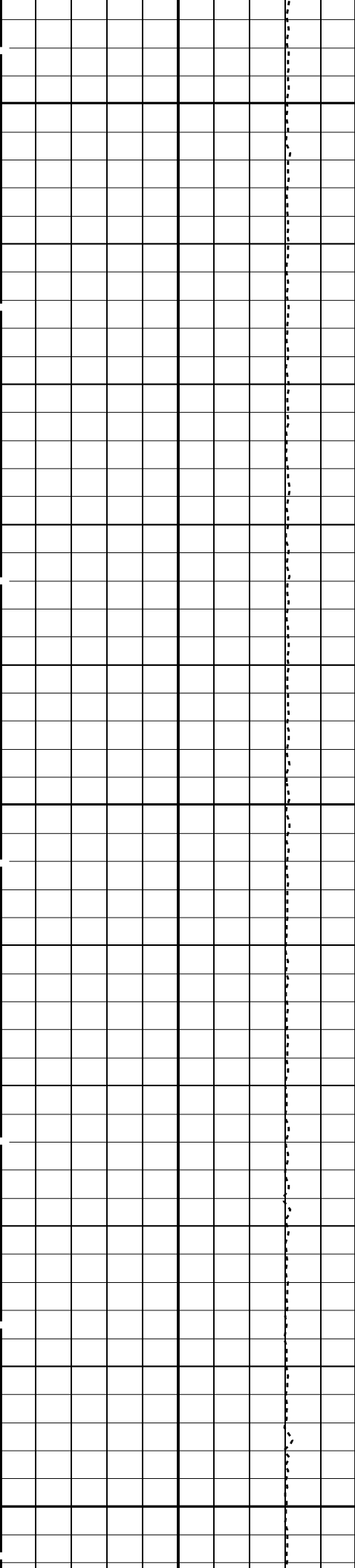




875

900

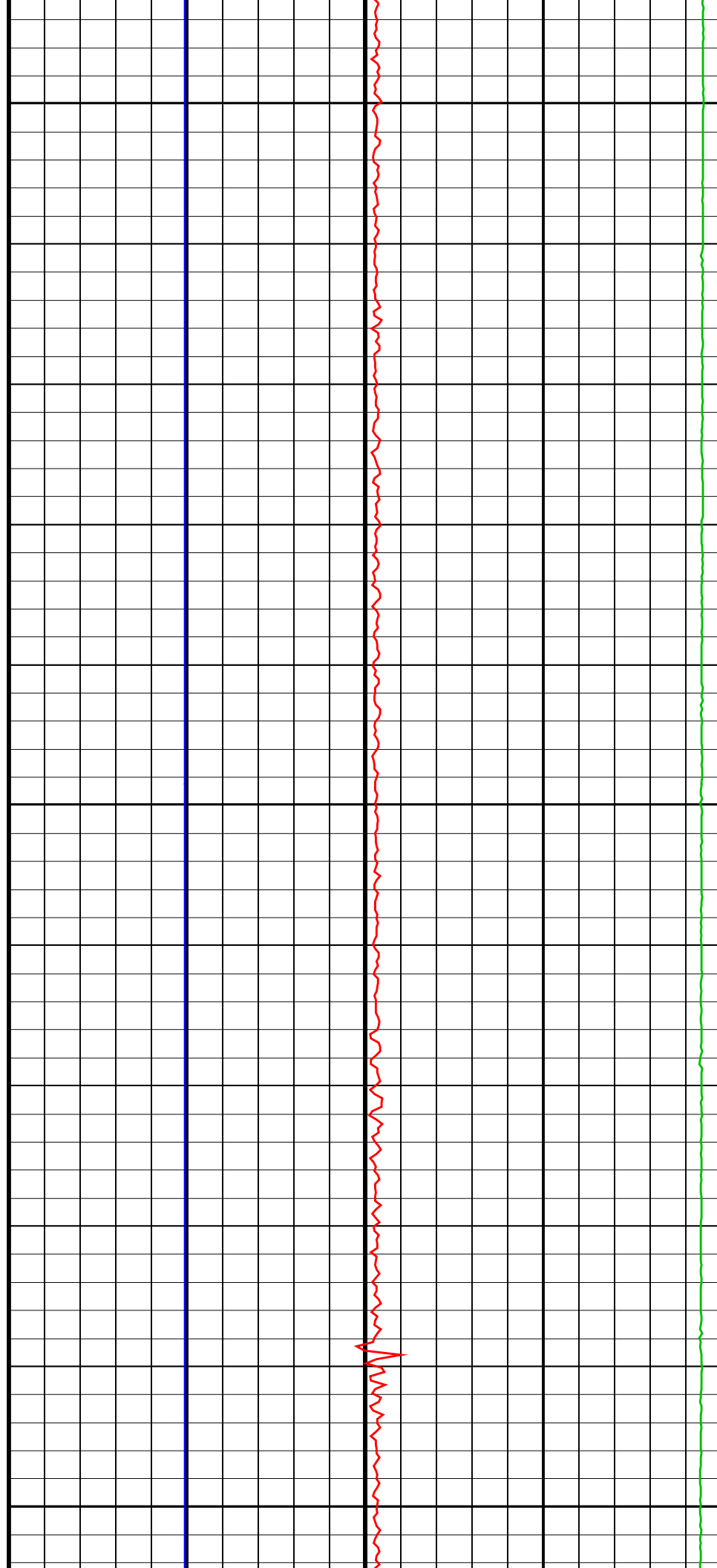


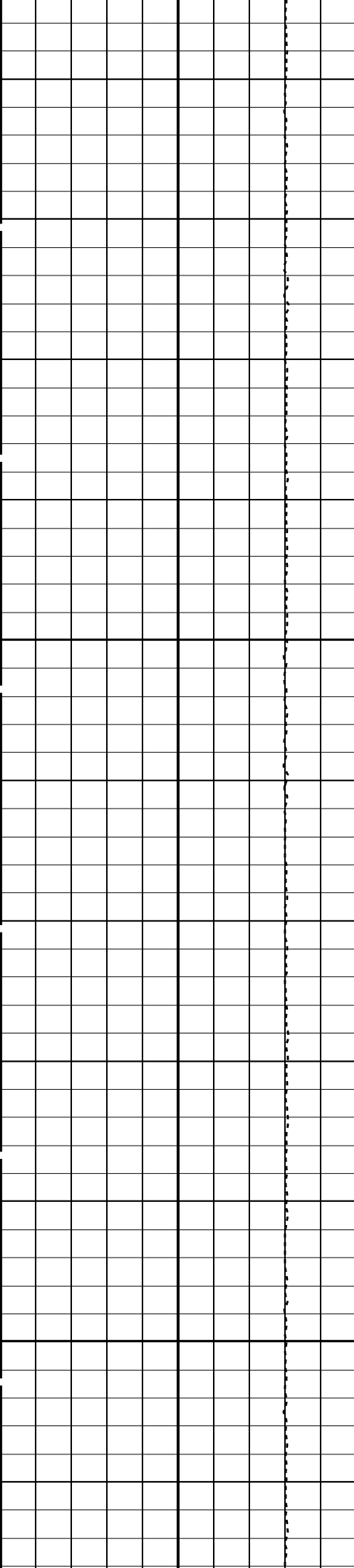


925

950

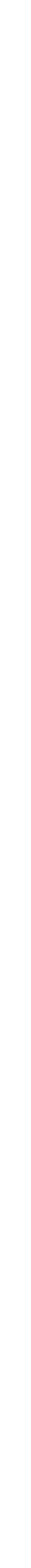
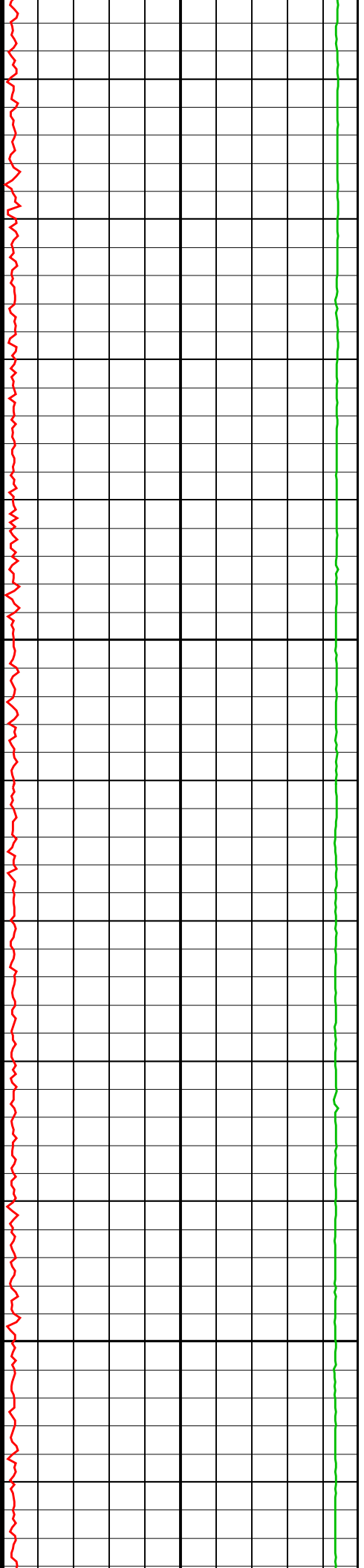
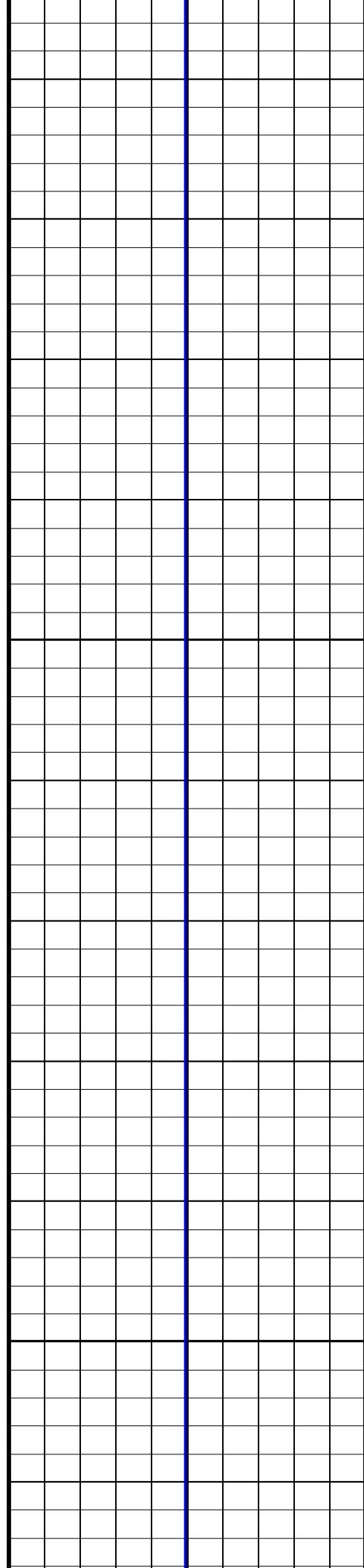
975

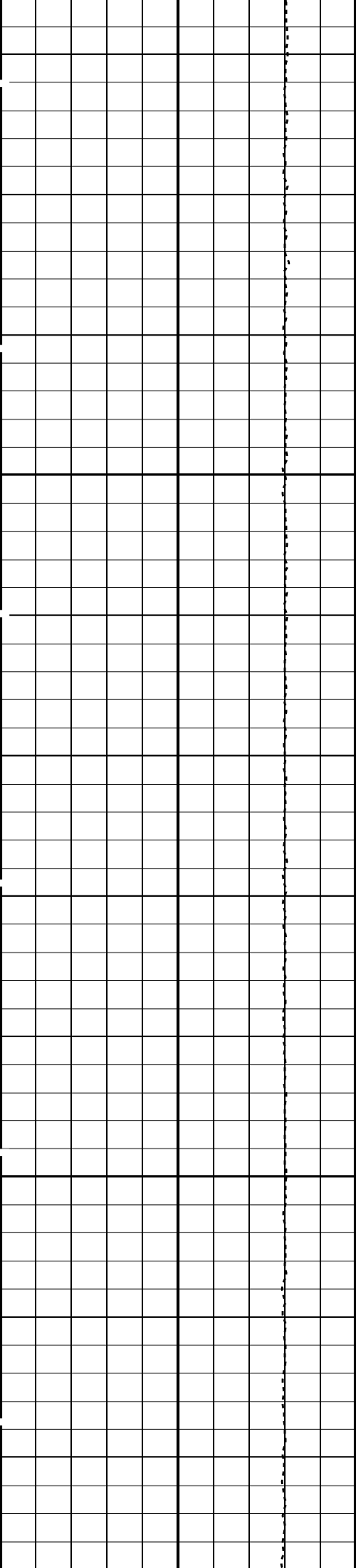




1000

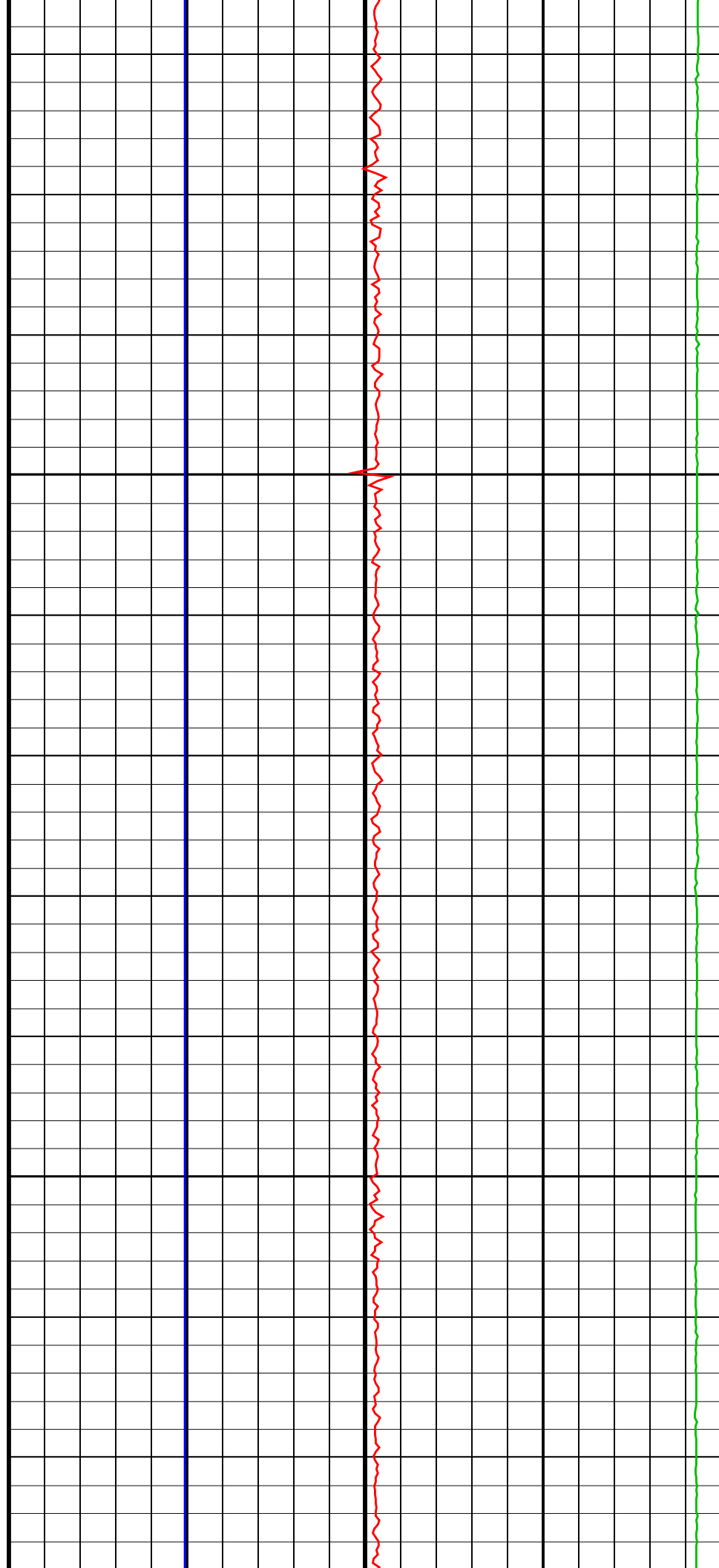
1025

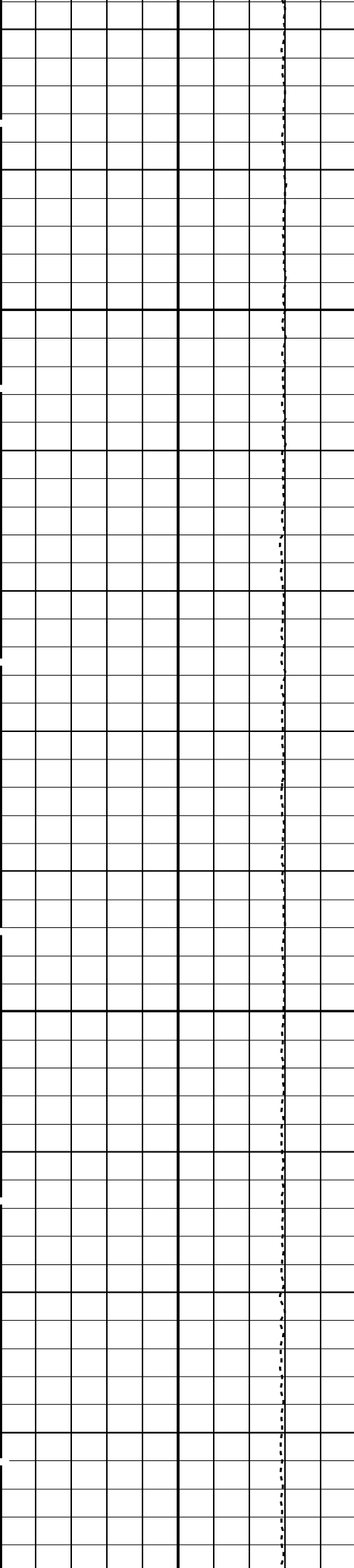




1050

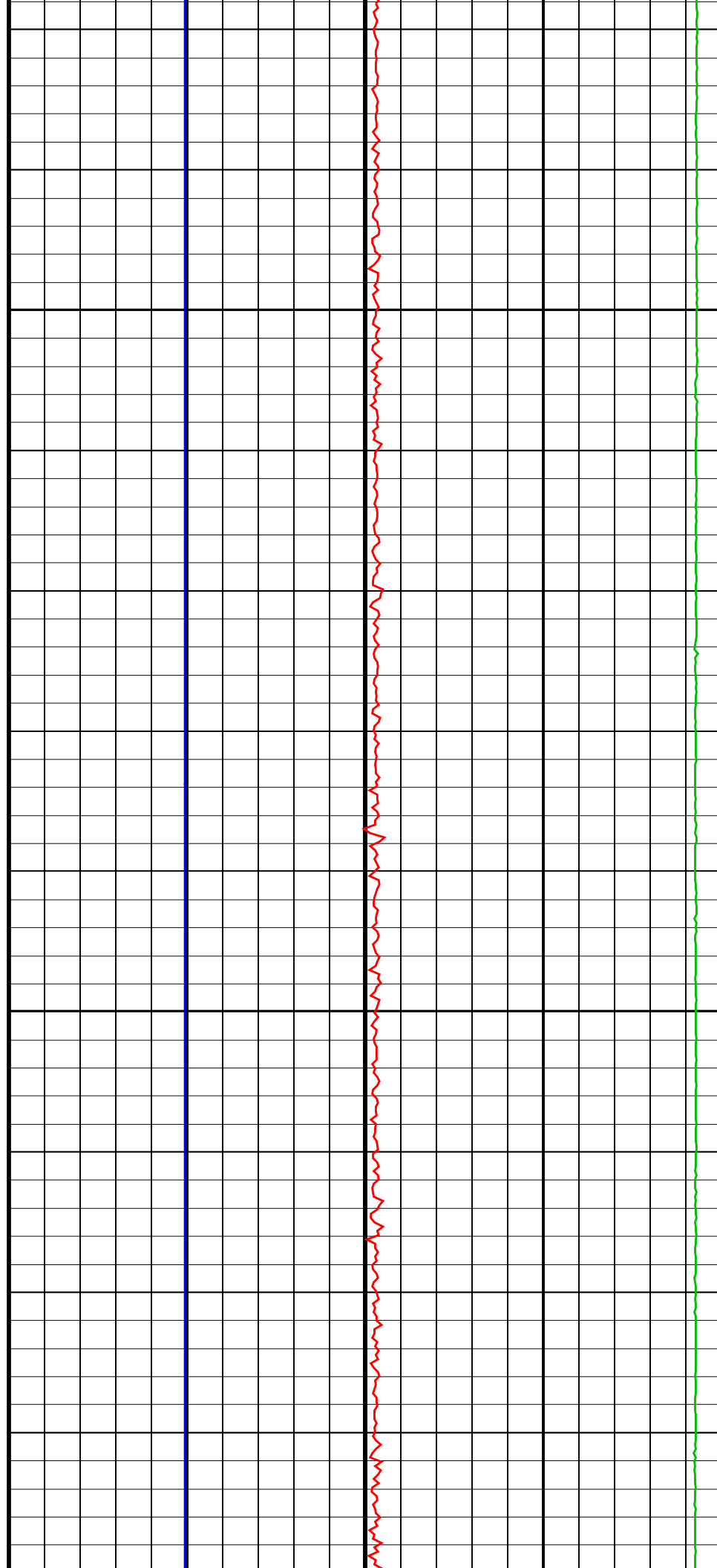
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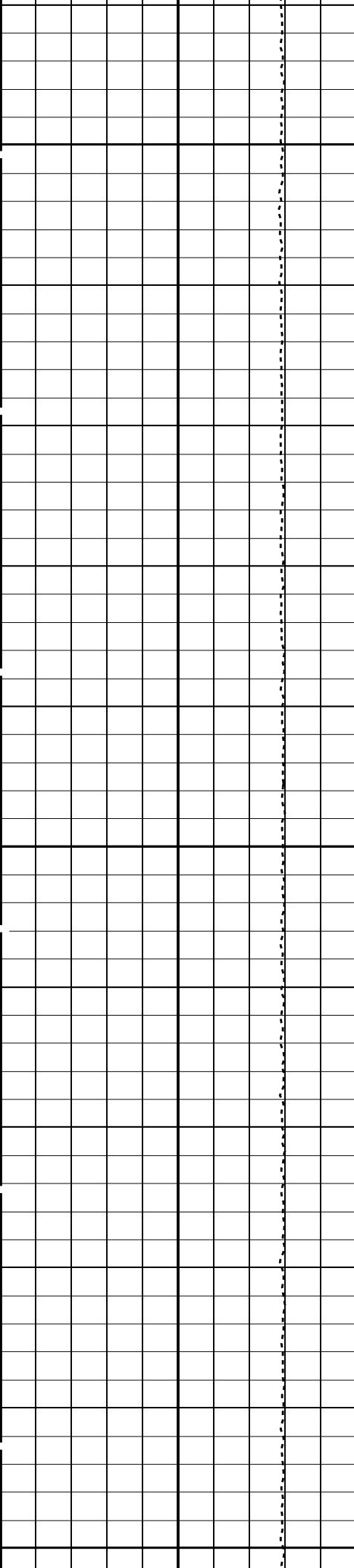




1100

1125

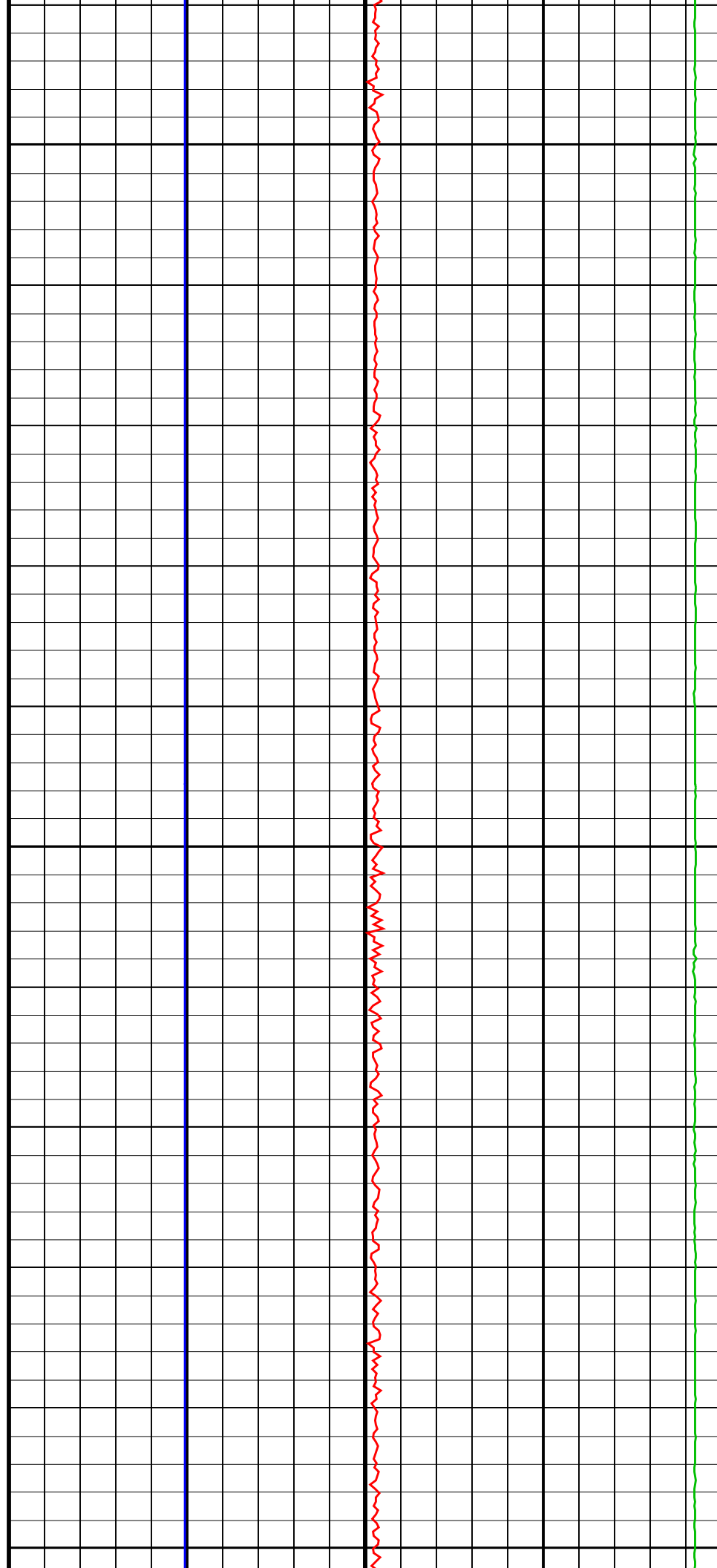


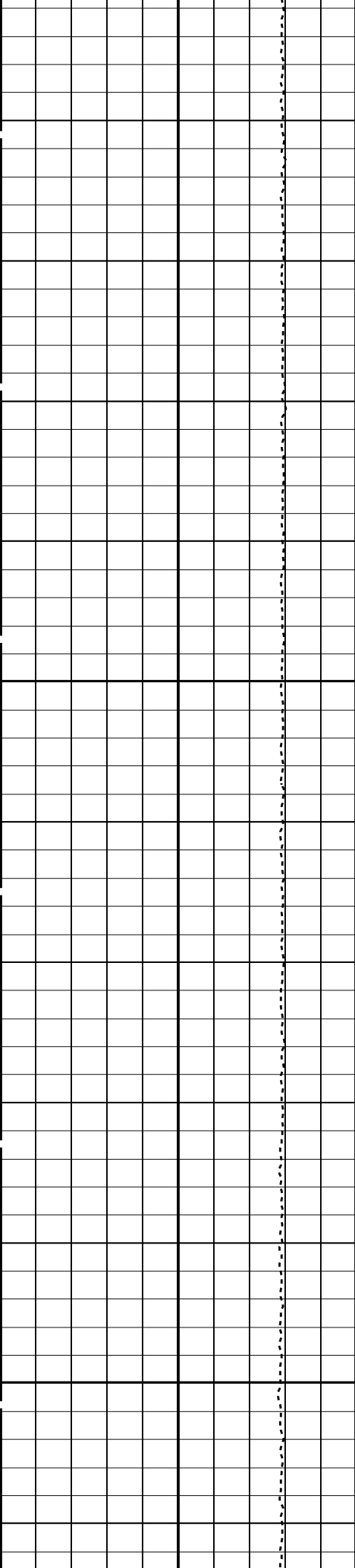


1150

1175

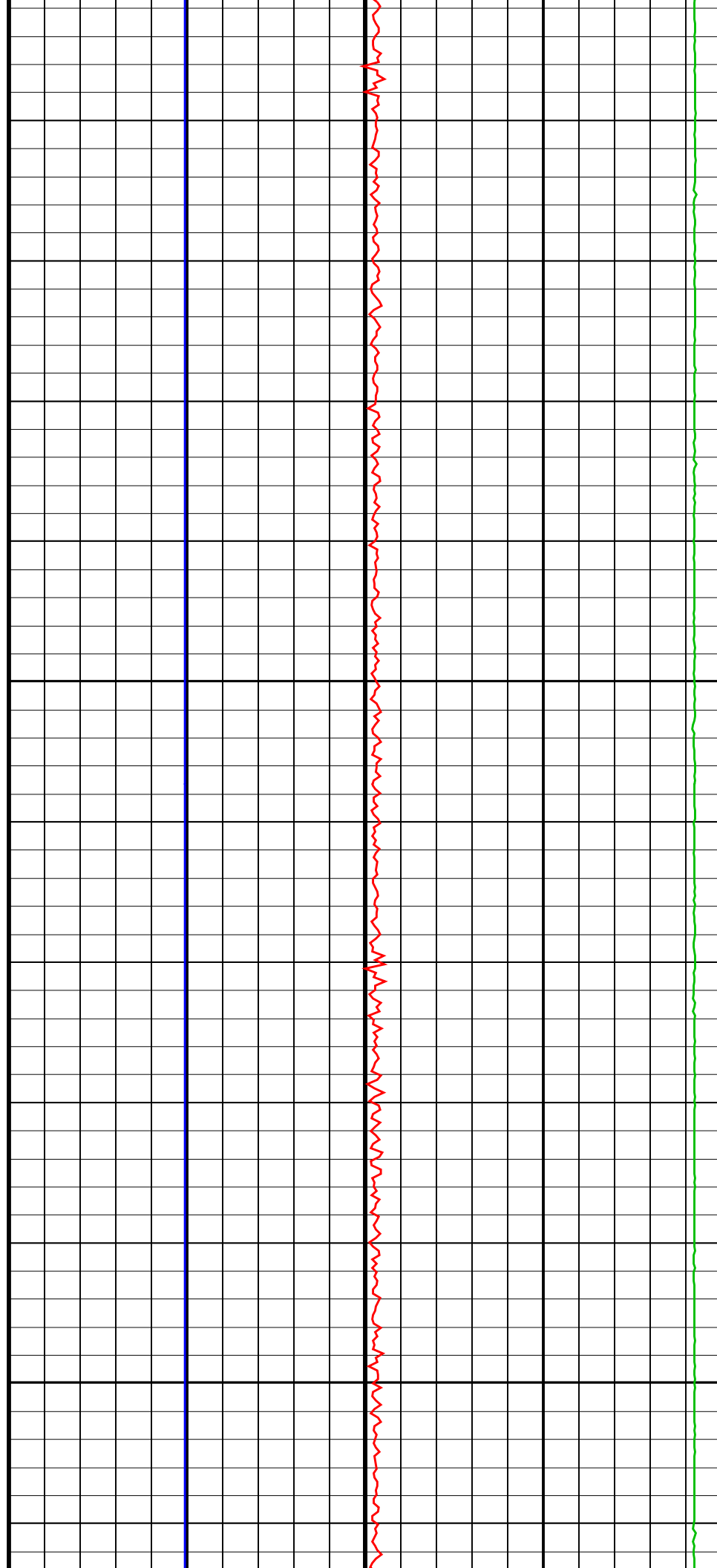
1200

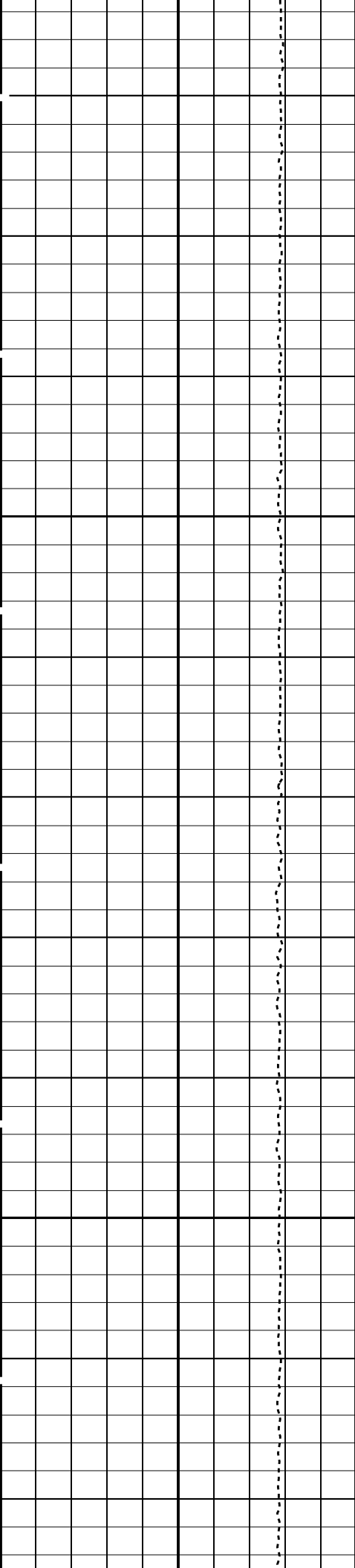




1225

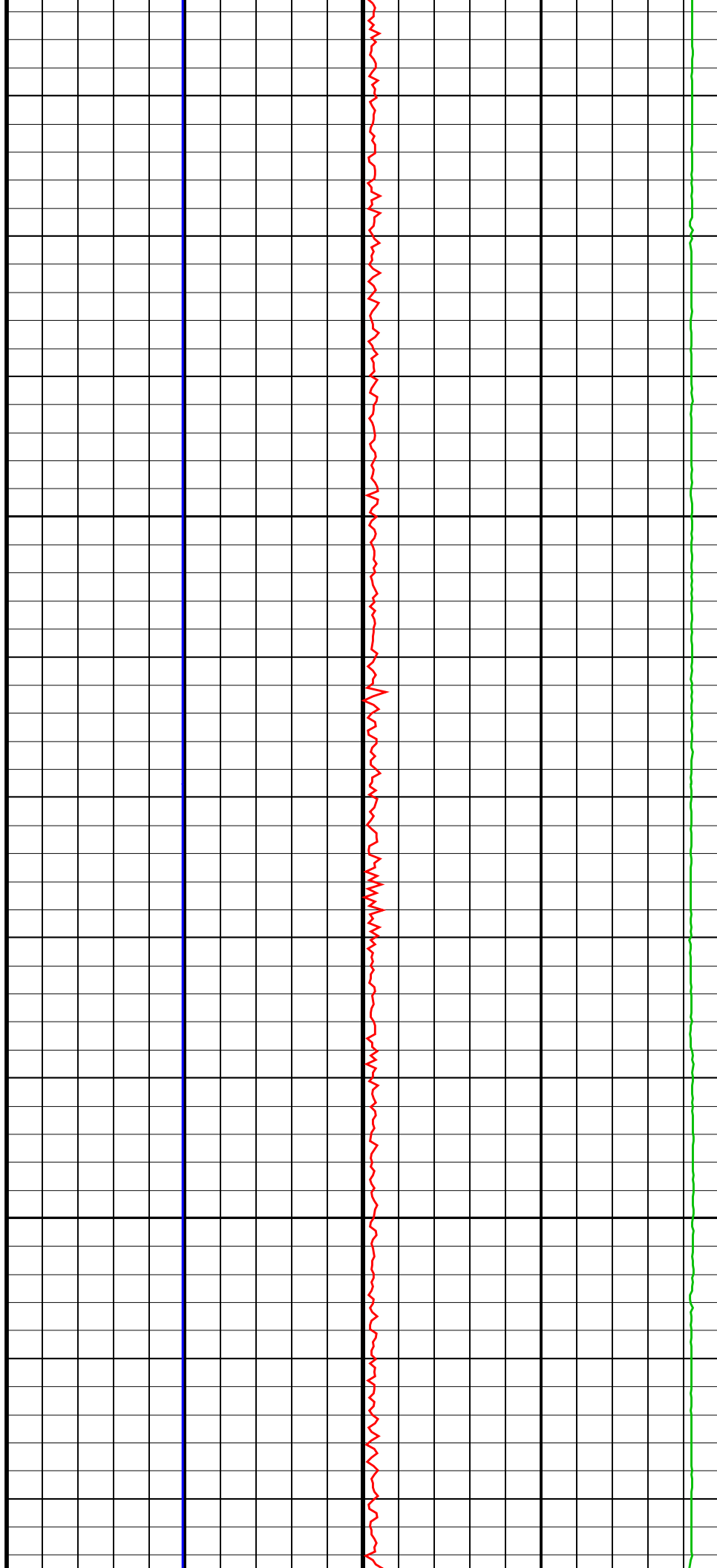
1250

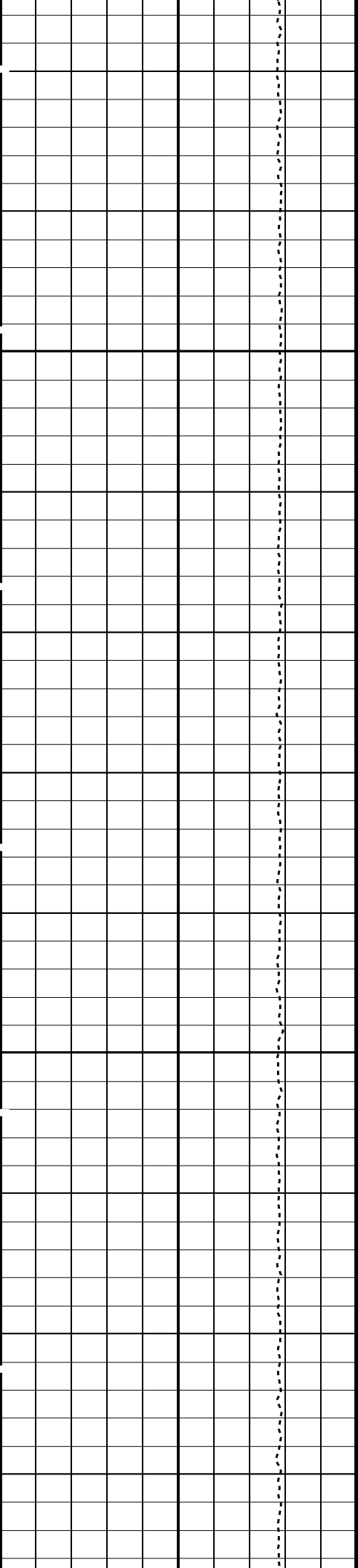




1275

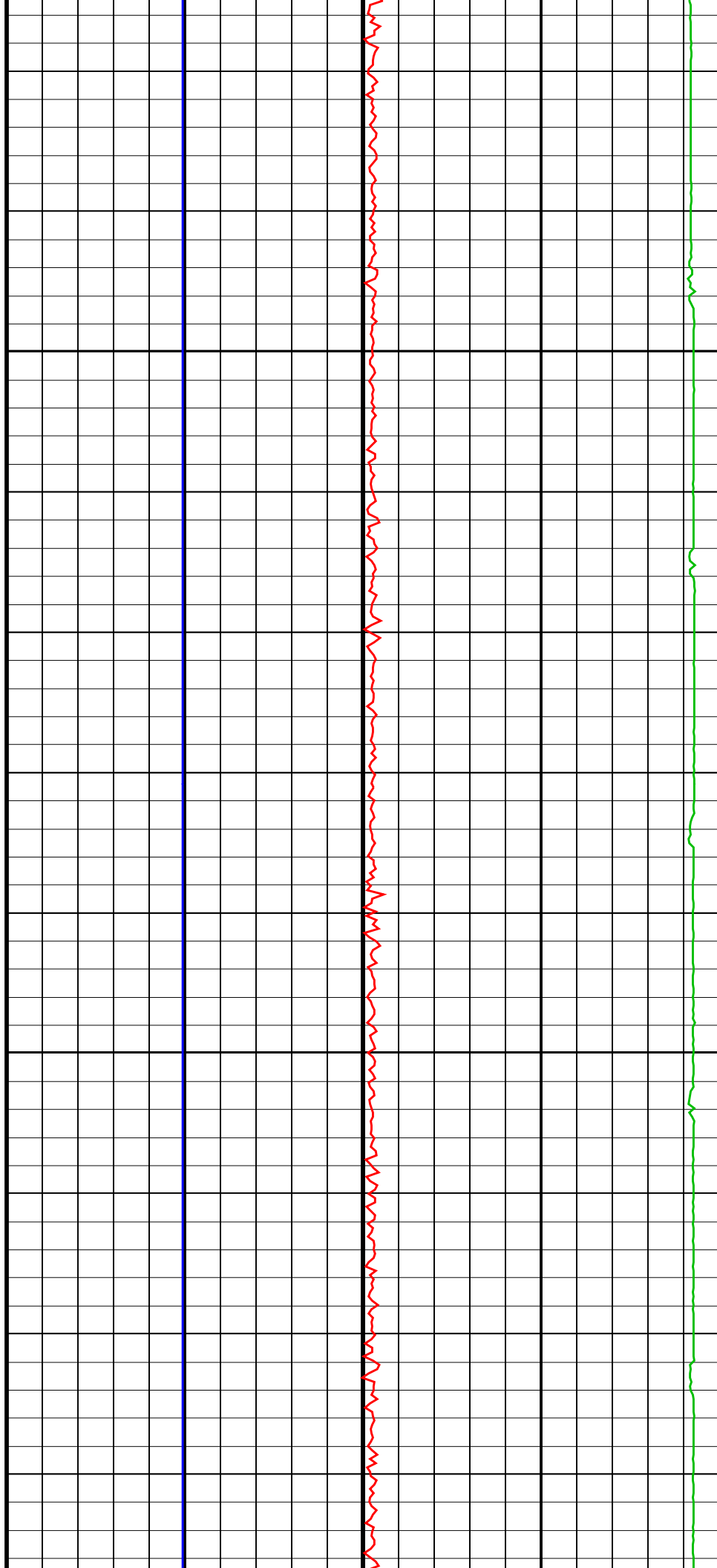
1300

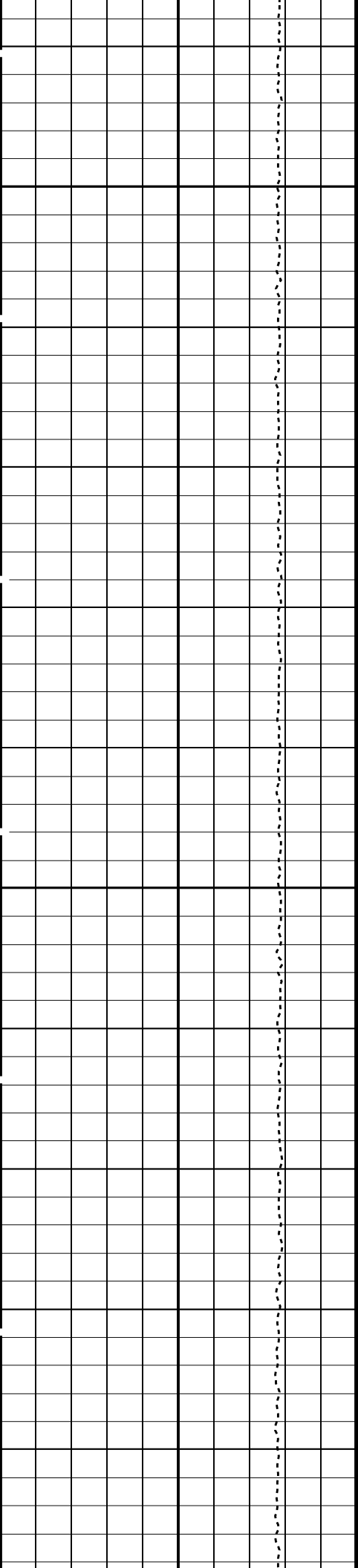




1325

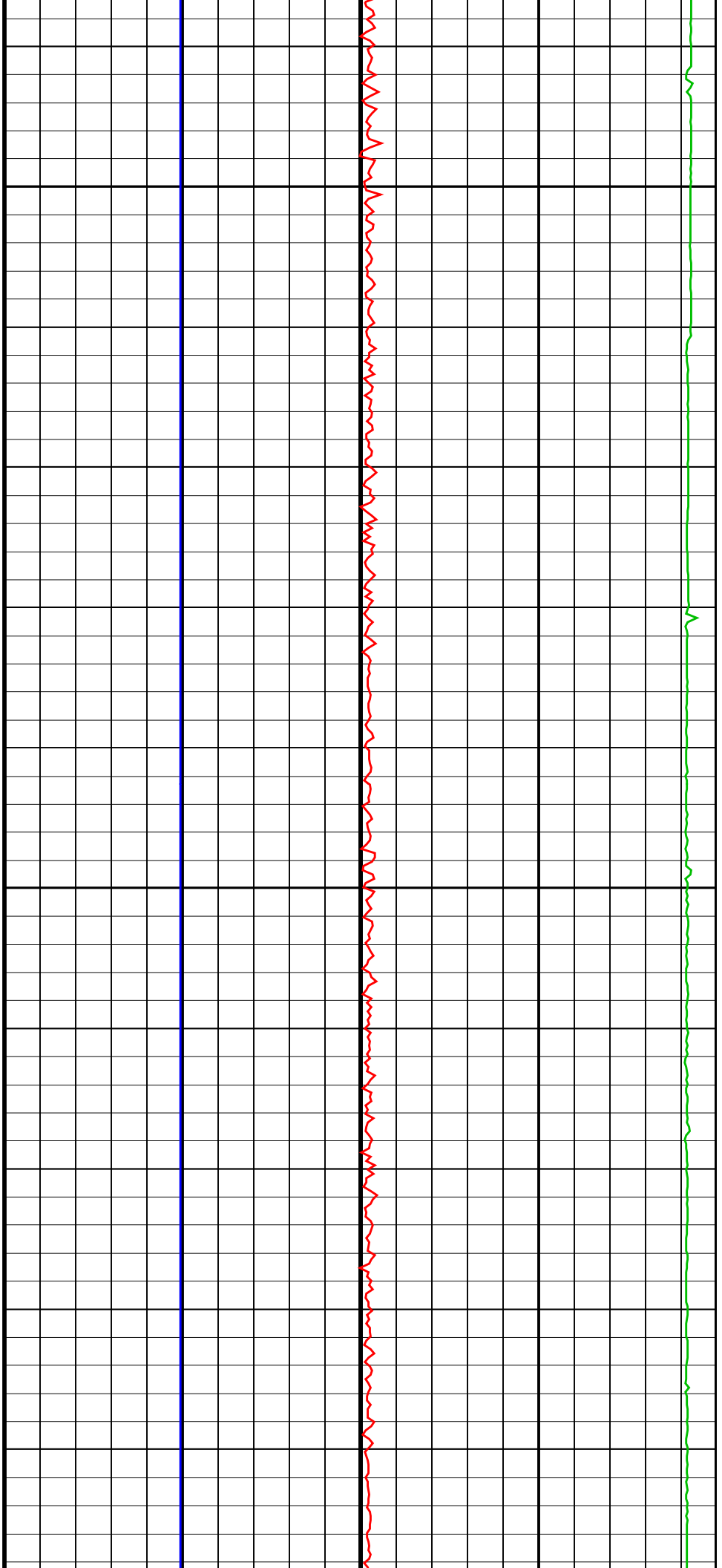
1350

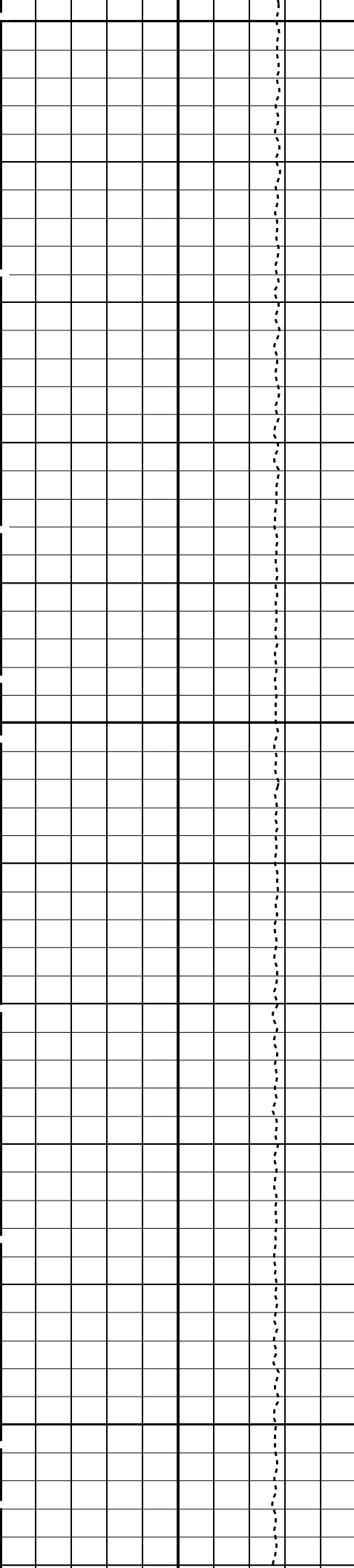




1375

1400

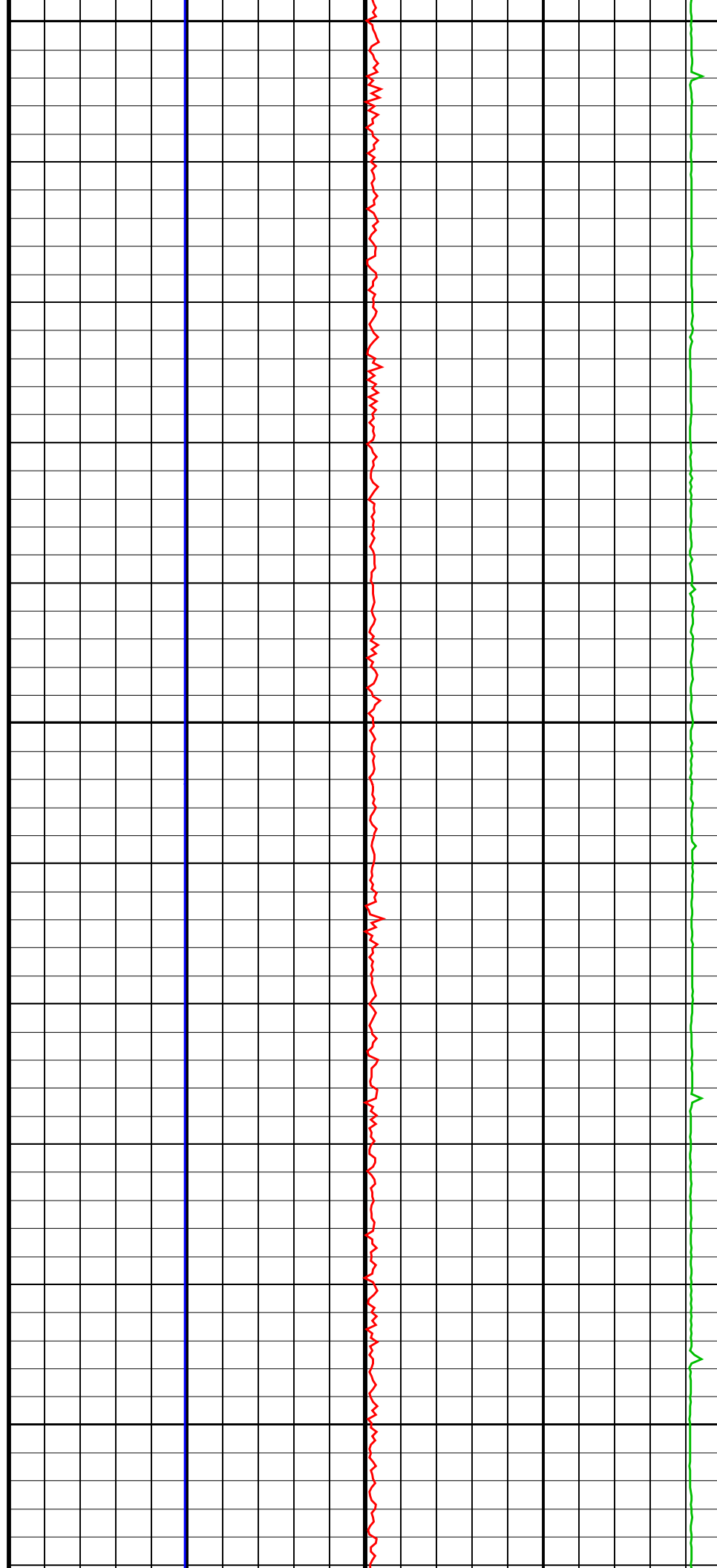


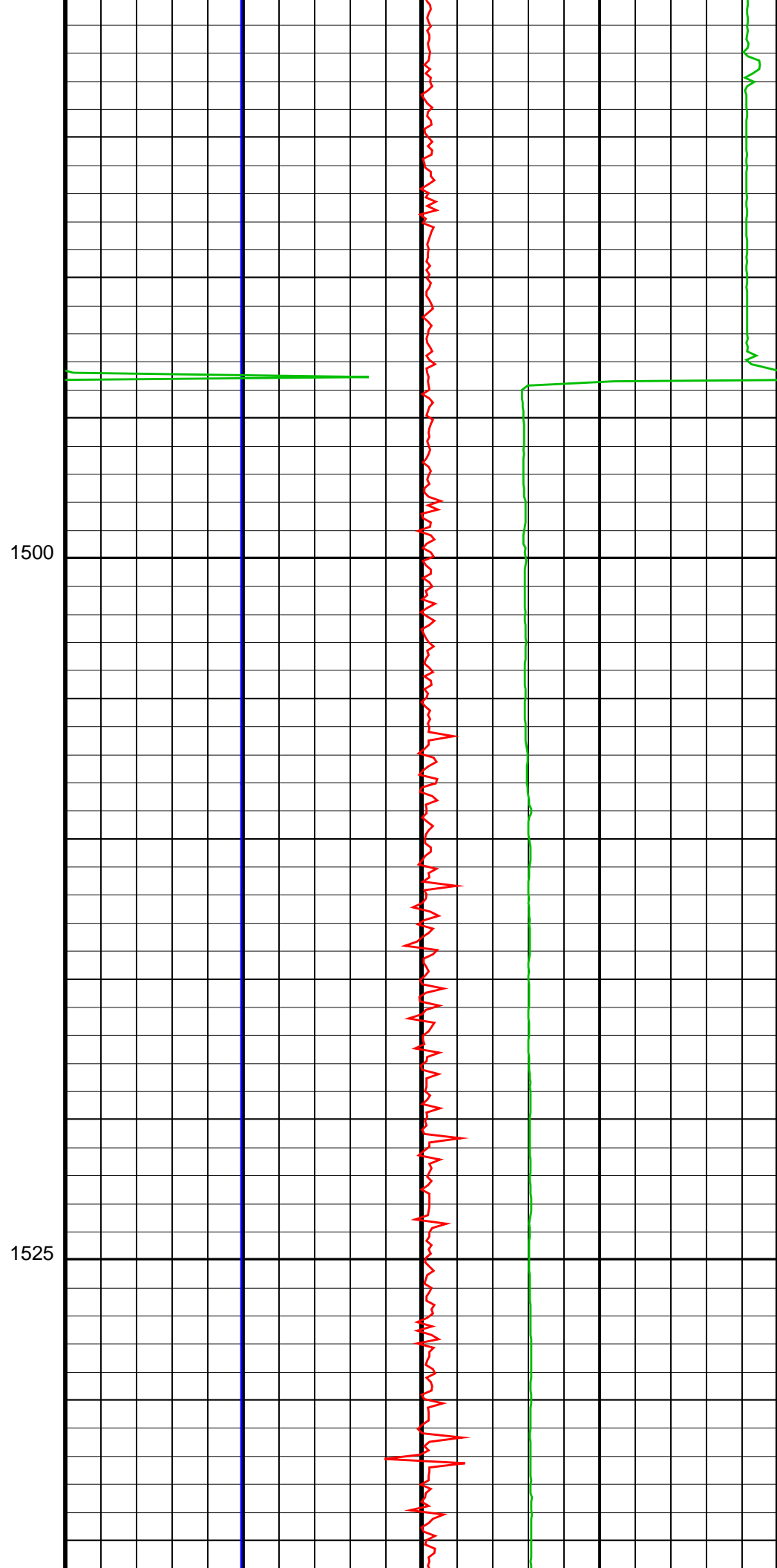
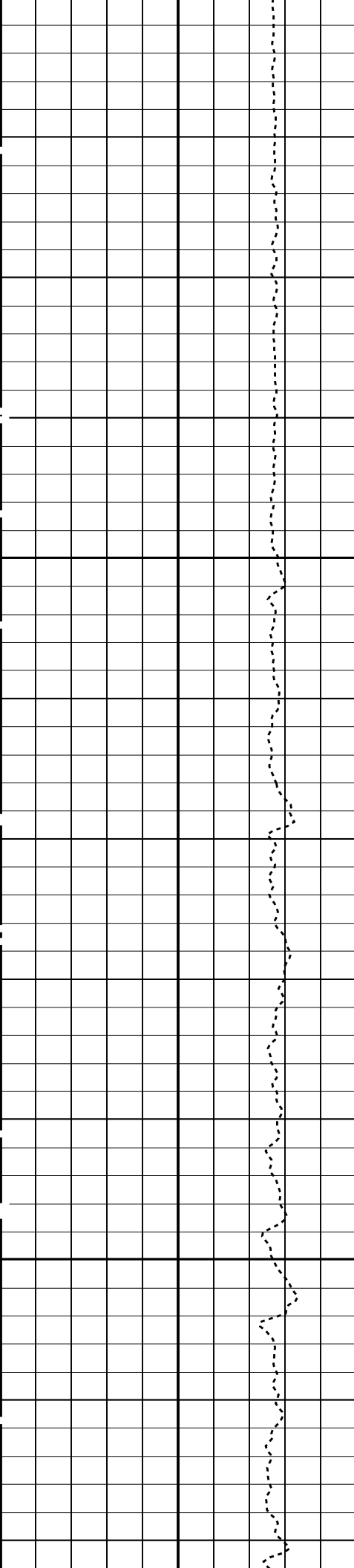


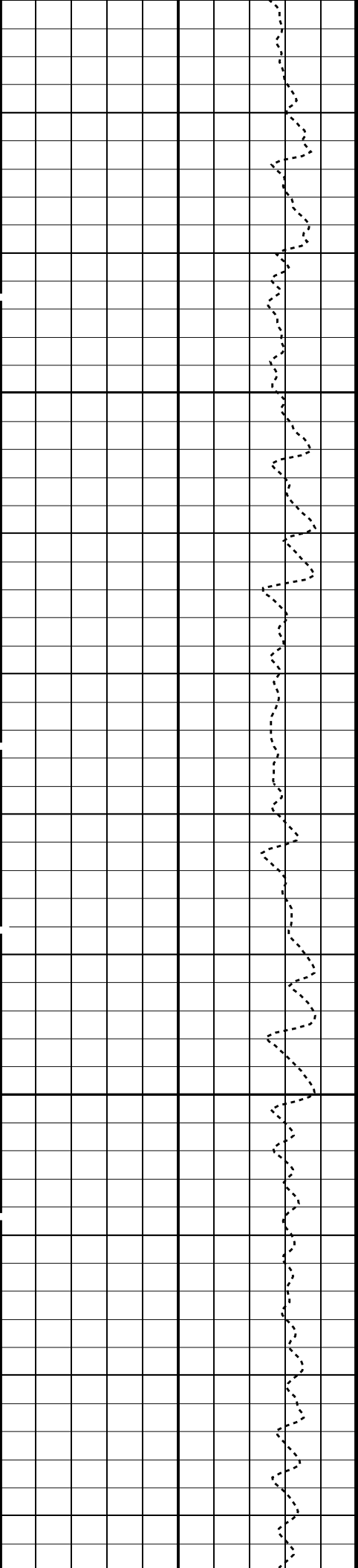
1425

1450

1475

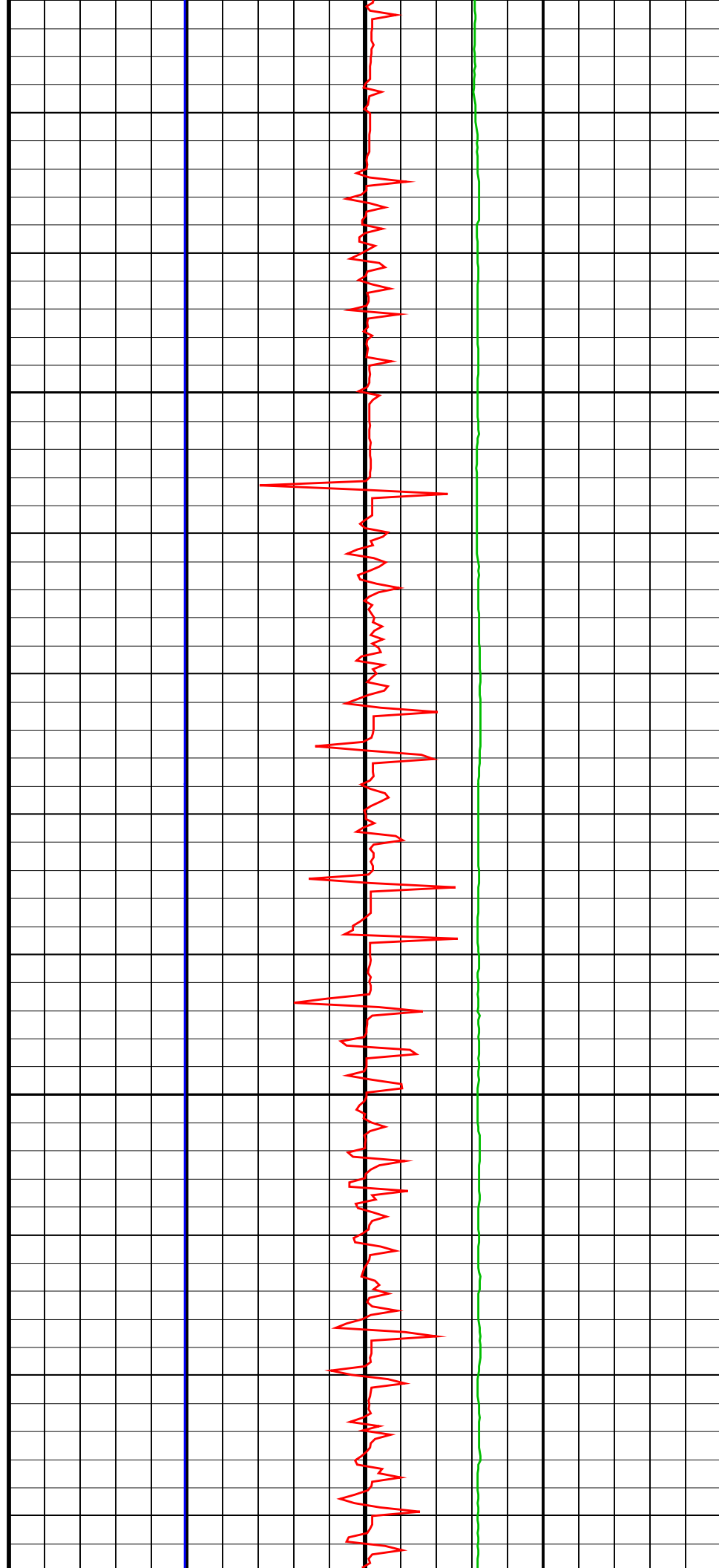


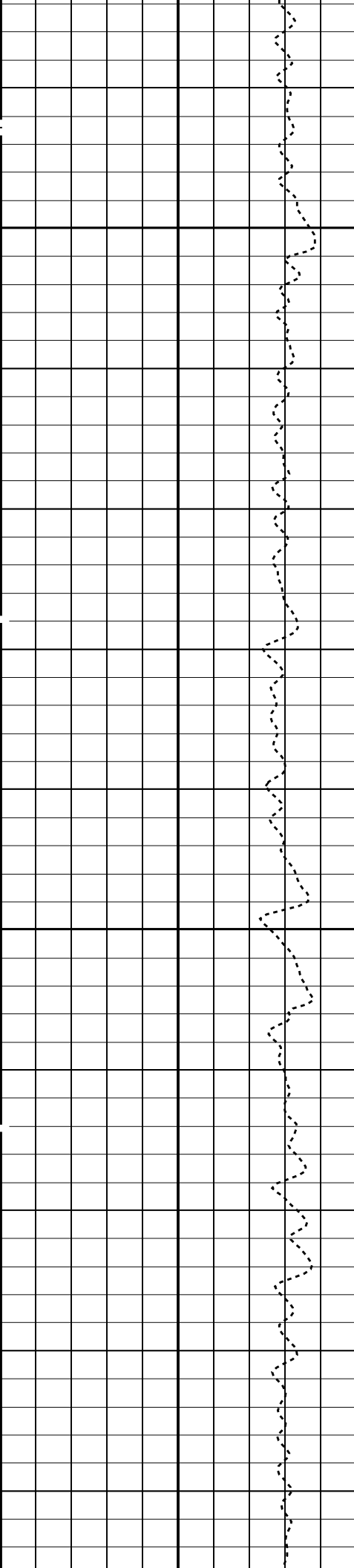




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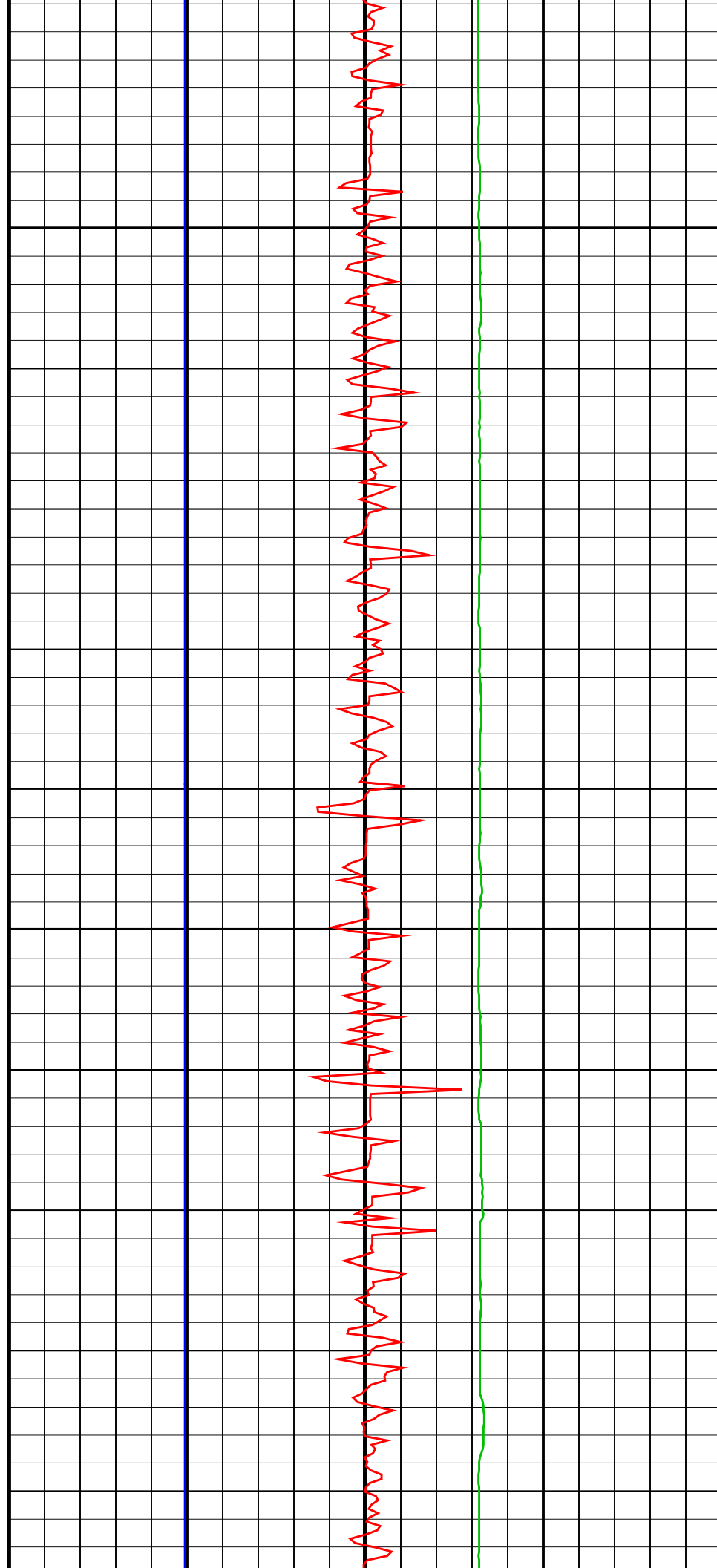
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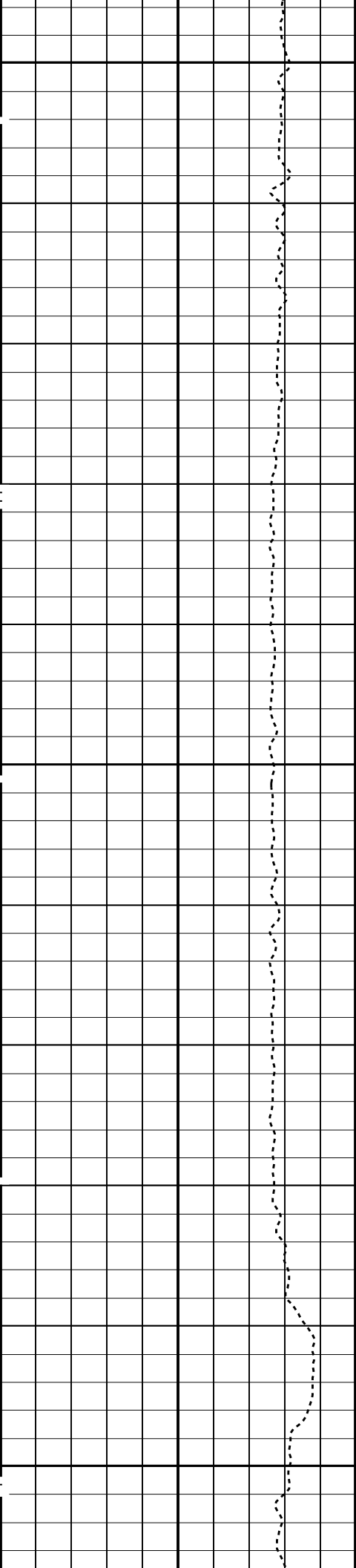




1600

1625

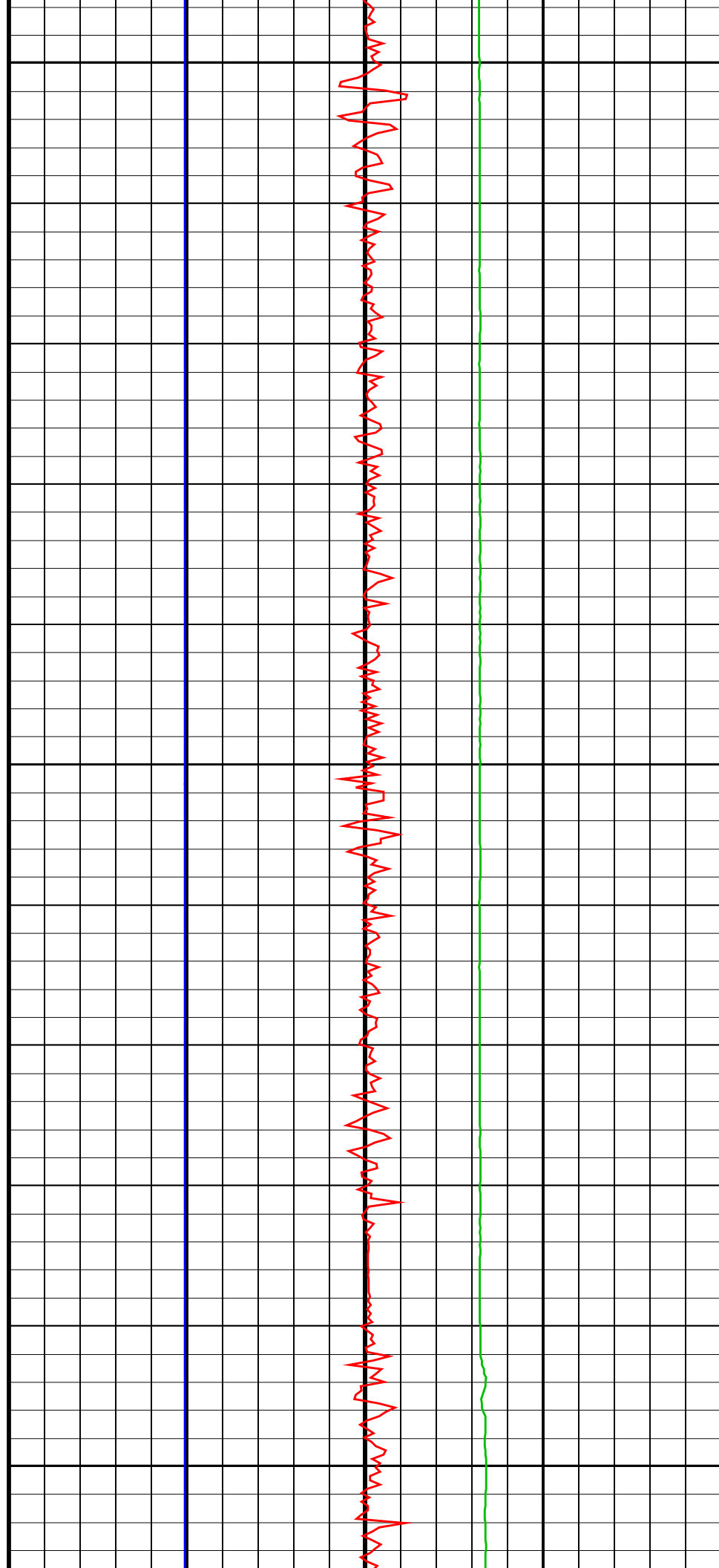


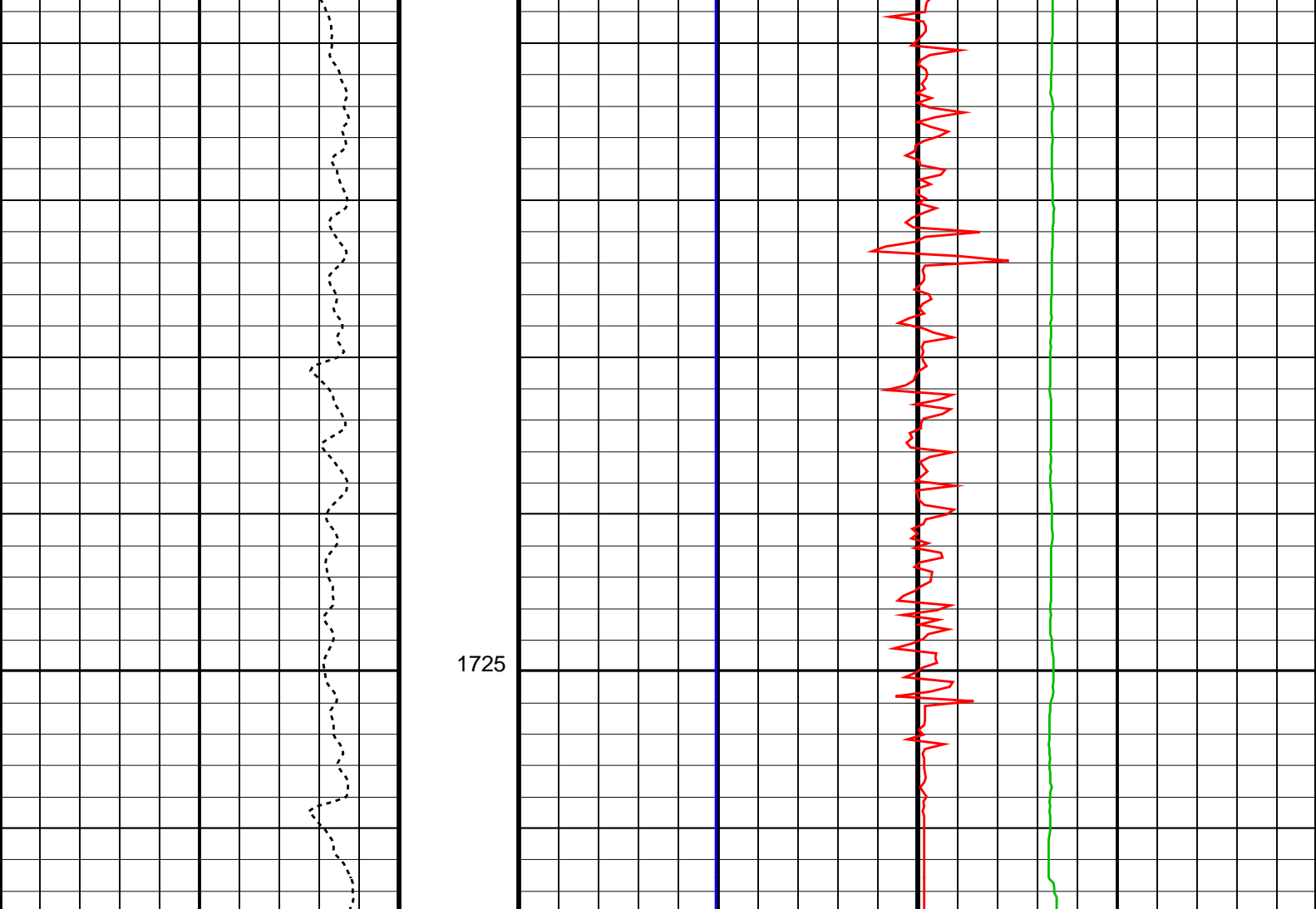


1650

1675

1700





Tension (TENS)			Axial Acceleration (MSSZACC_LDEO)		
10000	(LBF)	0	0	(M/S2)	20
			High-Res Susceptibility (MSSHUSUS_LDEO)		
			-10000 (PPM) 90000		
			Dual-Coil Susceptibility (MSSLUSUS_LDEO)		
			-10000 (PPM) 90000		

PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name		Description	Value
System and Miscellaneous			
DO		Depth Offset for Playback	0.0
PP		Playback Processing	M
			NORMAL
Format: MSS_Logging		Vertical Scale: 1:200	Graphics File Created: 30-Jan-2024 03:48
OP System Version: 19C0-187			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

Input DLIS Files					
DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	30-Jan-2024 00:54	1732.6 M	772.7 M
Output DLIS Files					

Schlumberger

Repeat Pass

MAXIS Field Log

Company: International Ocean Discovery Program

Well: Expedition 401, Site U1611A

Output DLIS Files

DEFAULTMSS_LDEO_HRLA_LDL_013LUPFN:11PRODUCER30-Jan-2024 00:581725.9 M1626.9 M

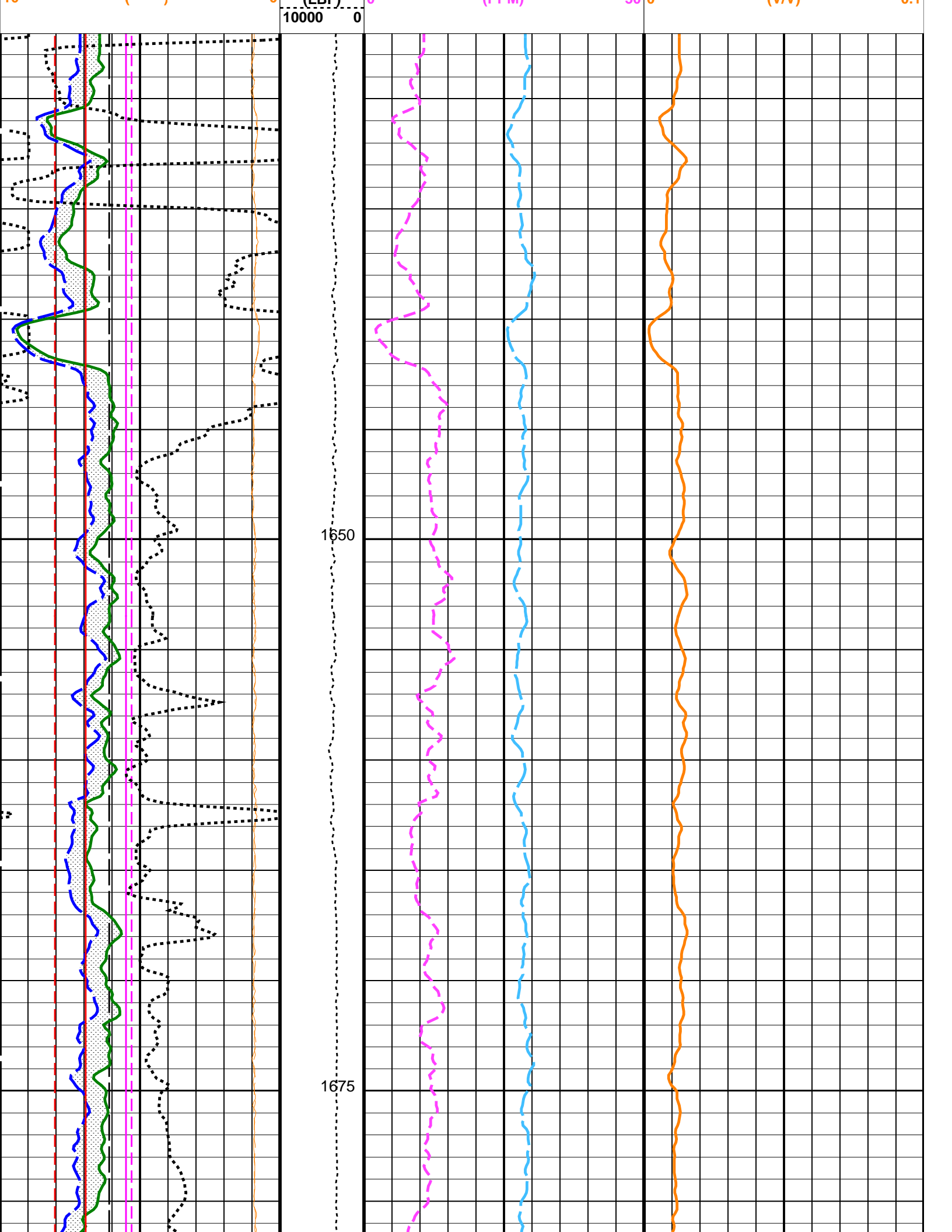
OP System Version: 19C0-187

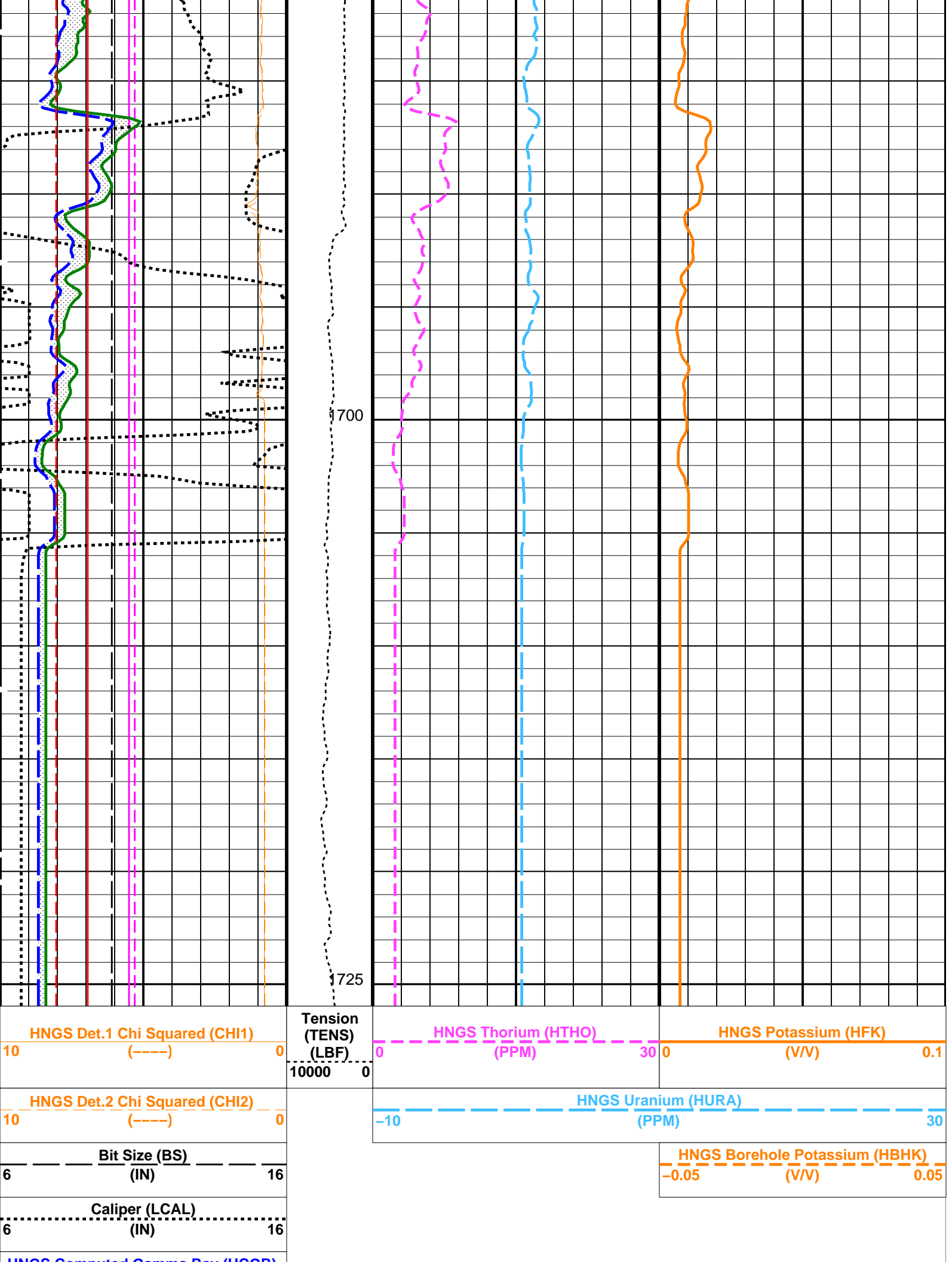
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

PIP SUMMARY

Time Mark Every 60 S







HNGS Computed Gamma Ray (HCGR)		
0	(GAPI)	150
Area1 From HCGR to HSGR		
HNGS Det.1 Gain Correction Factor (GCF1)		
0.9	(-----)	1.1
HNGS Det.2 Gain Correction Factor (GCF2)		
0.9	(-----)	1.1
HNGS Det.1 Resolution Degradation Factor (RDF1)		
0	(-----)	10
HNGS Det.2 Resolution Degradation Factor (RDF2)		
0	(-----)	10
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	150

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0226194	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.980405	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.965133	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
System and Miscellaneous			
BS	Bit Size	9.875	IN

Format: HNGSYields Vertical Scale: 1:200

Graphics File Created: 30-Jan-2024 00:58

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

Output DLIS Files

Company: International Ocean Discovery Program

Well: Expedition 401, Site U1611A

Output DLIS Files

DEFAULTMSS_LDEO_HRLA_LDL_013LUPFN:11PRODUCER30-Jan-2024 00:581725.9 M1626.9 M

OP System Version: 19C0-187

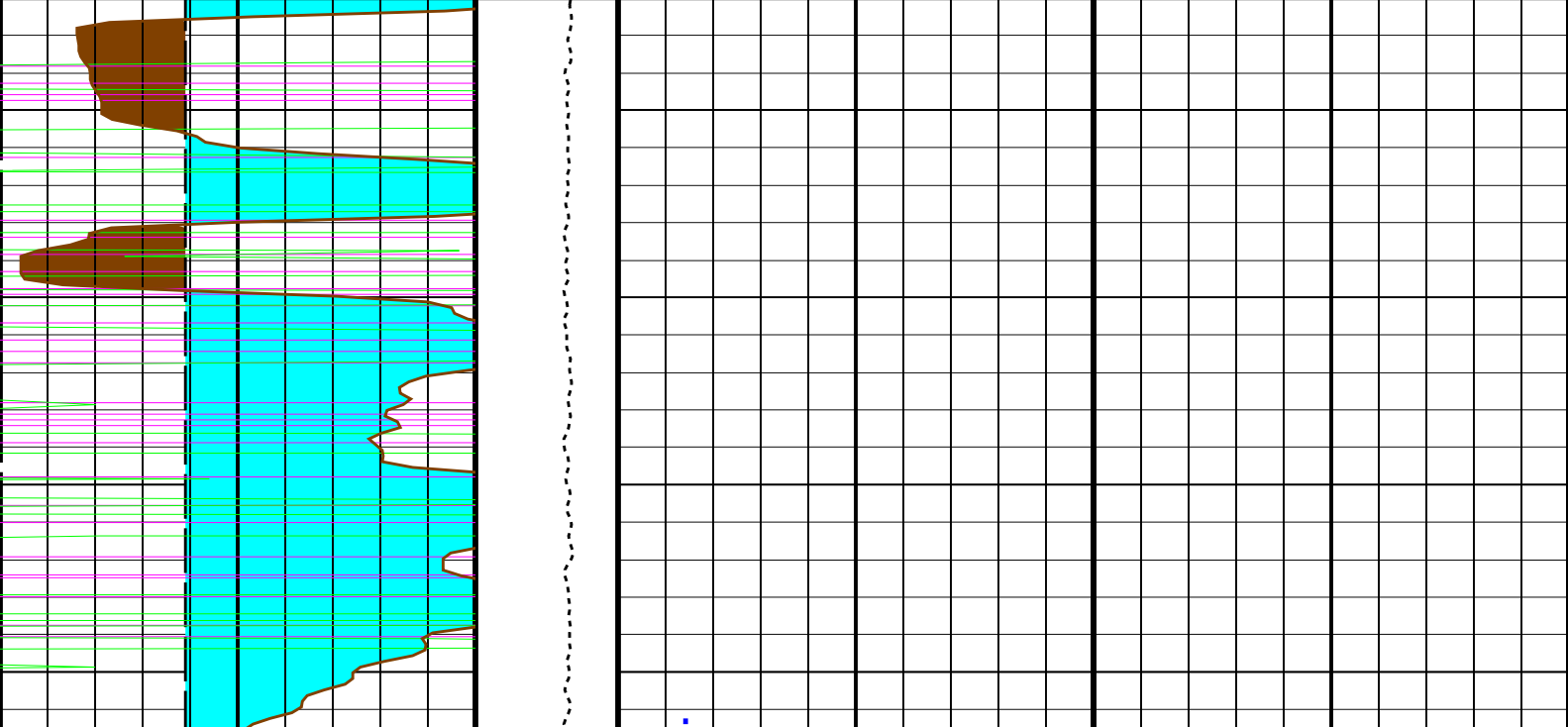
MSS_LDEO-A19C0-187HRLT-B19C0-187
HLDS19C0-187LDSC-B19C0-187
HNGC-B19C0-187HNGS-BA19C0-187
EDTC-B19C0-187

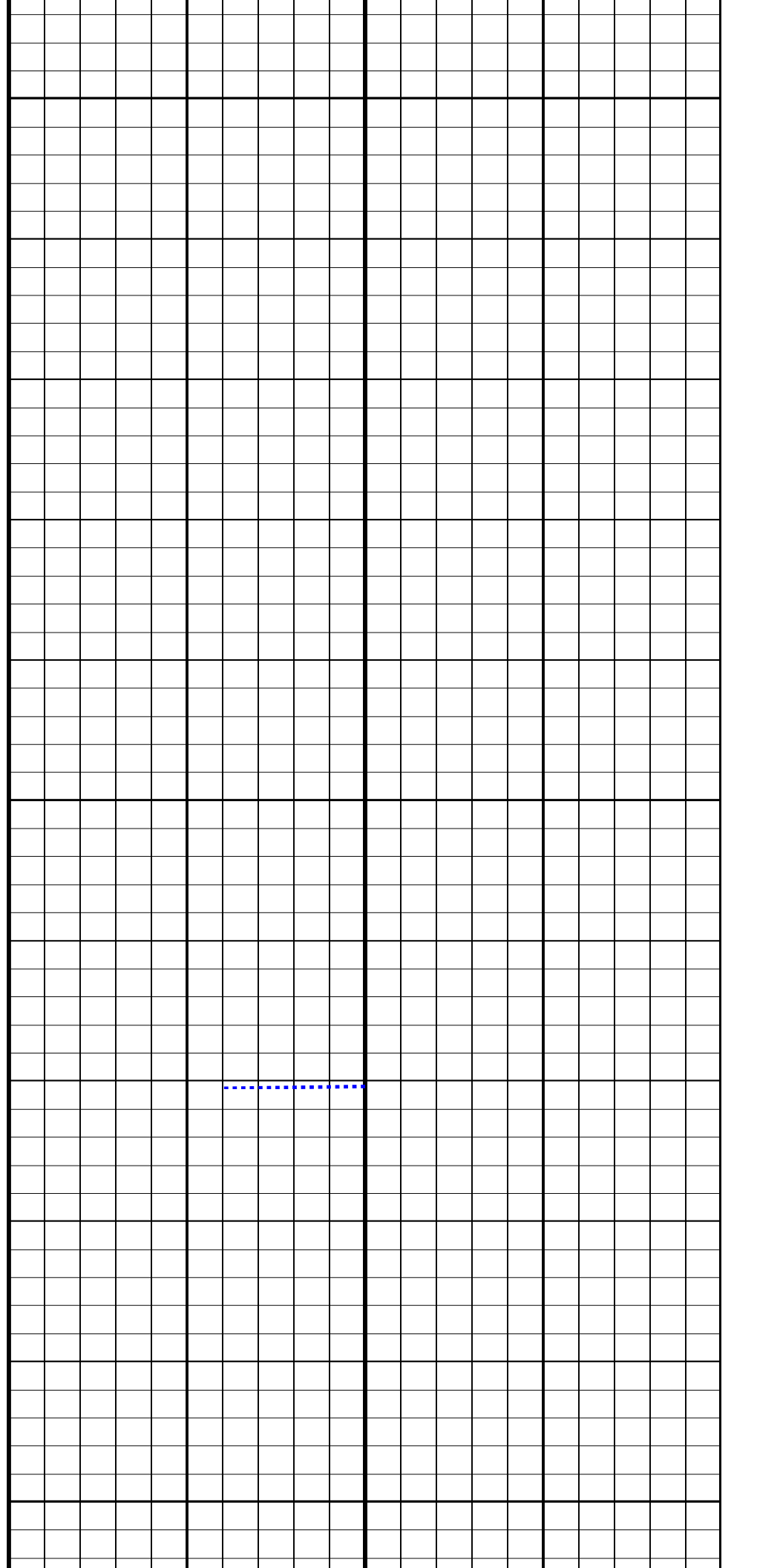
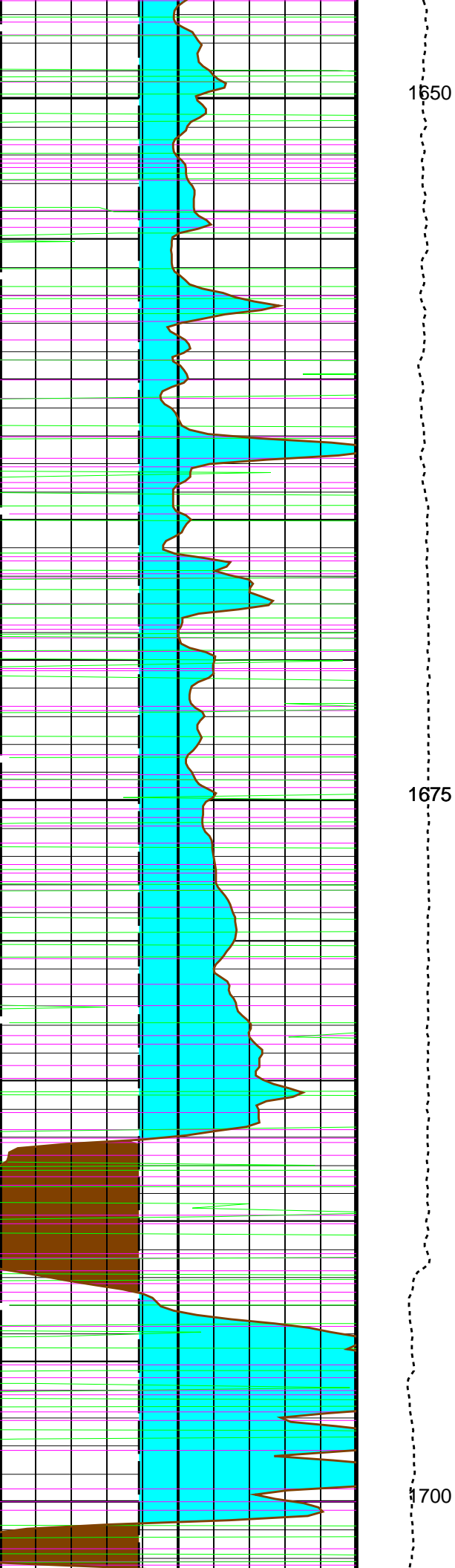
PIP SUMMARY

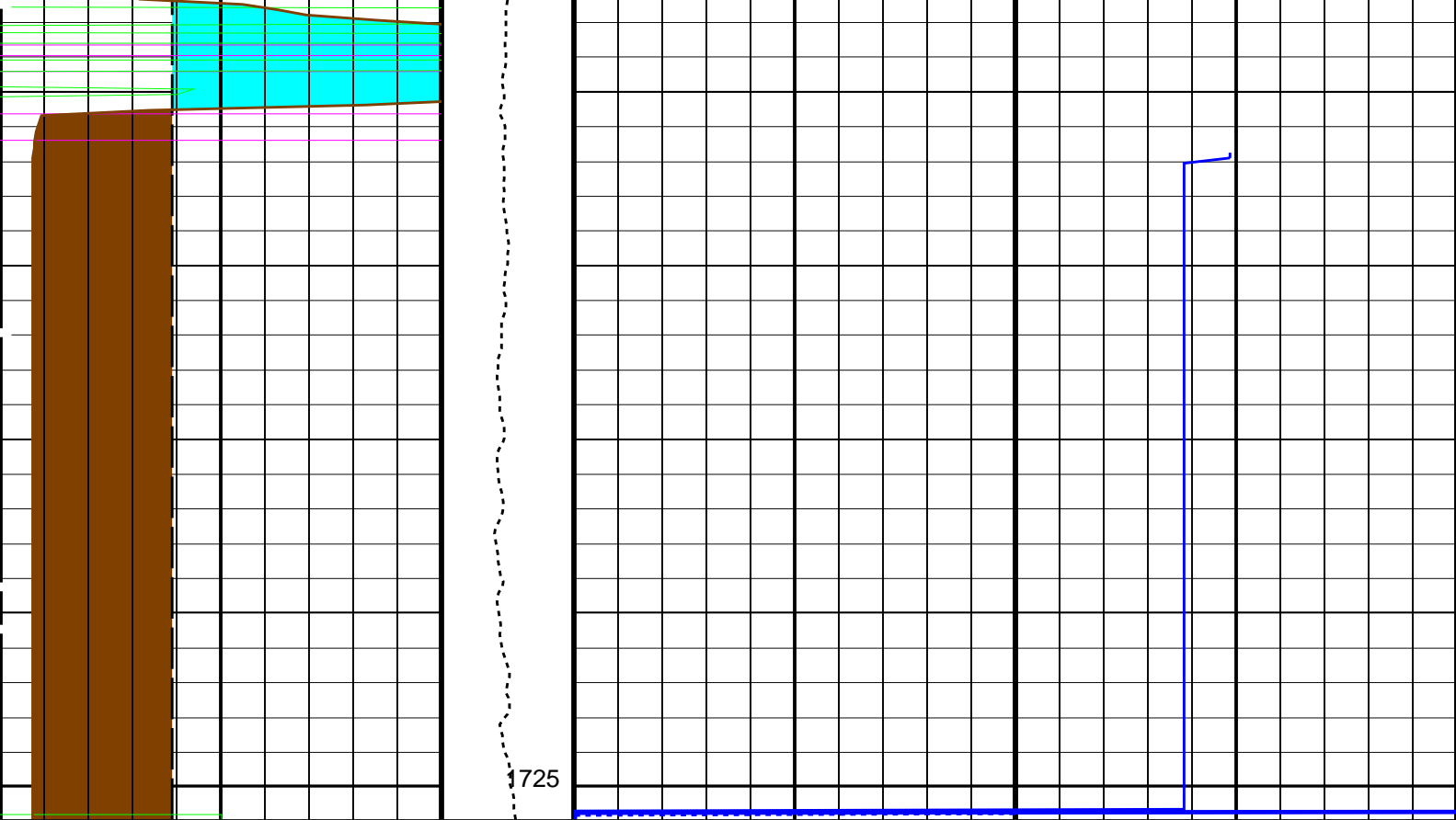
Time Mark Every 60 S

HLDS Long Spacing Quality Indicator (LQLS)					
-0.25	(----	0.25			
HLDS Short Spacing Quality Indicator (LQSS)					
-0.25	(----	0.25			
Washout From BS to HLDS_CALIPER					
Mudcake From HLDS_CALIPER to BS					
HLDS Caliper (LCAL)					
6	(IN)	16			
Bit Size (BS)					
6	(IN)	16			
HLDS Bulk Density Correction (DRH)			Tension (TENS)		
-0.25	(G/C3)	0.25	(LBF)		
			10000 0		

HLDS Short Spaced Bulk Density (RHS)			
2	(G/C3)	3	
HLDS Long Spaced Photoelectric Effect (PEFL)			
0	(----		10
HLDS Short Spaced Photoelectric Effect (PEFS)			
0	(----	10	
HLDS Long Spaced Bulk Density (RHL)			
2	(G/C3)	3	
HLDS SS2 Density (RHS3)		HLDS Density Porosity (DPO)	
2	(G/C3)	3 30 (PU) 0	
HLDS Bulk Density (RHOM)			
2	(G/C3)	3	







HLDS Bulk Density Correction (DRH) -0.25 (G/C3) 0.25	Tension (TENS) (LBF) 10000 0	HLDS Bulk Density (RHOM) 2 (G/C3) 3
Bit Size (BS) 6 (IN) 16	HLDS SS2 Density (RHS3) 2 (G/C3) 3	HLDS Density Porosity (DPO) 30 (PU) 0
HLDS Caliper (LCAL) 6 (IN) 16	HLDS Long Spaced Bulk Density (RHL) 2 (G/C3) 3	
Mudcake From HLDS_CALIPER to BS	HLDS Short Spaced Photoelectric Effect (PEFS) 0 (----) 10	
Washout From BS to HLDS_CALIPER	HLDS Long Spaced Photoelectric Effect (PEFL) 0 (----) 10	
HLDS Short Spacing Quality Indicator (LQSS) -0.25 (----) 0.25	HLDS Short Spaced Bulk Density (RHS) 2 (G/C3) 3	
HLDS Long Spacing Quality Indicator (LQLS) -0.25 (----) 0.25		

PIP SUMMARY

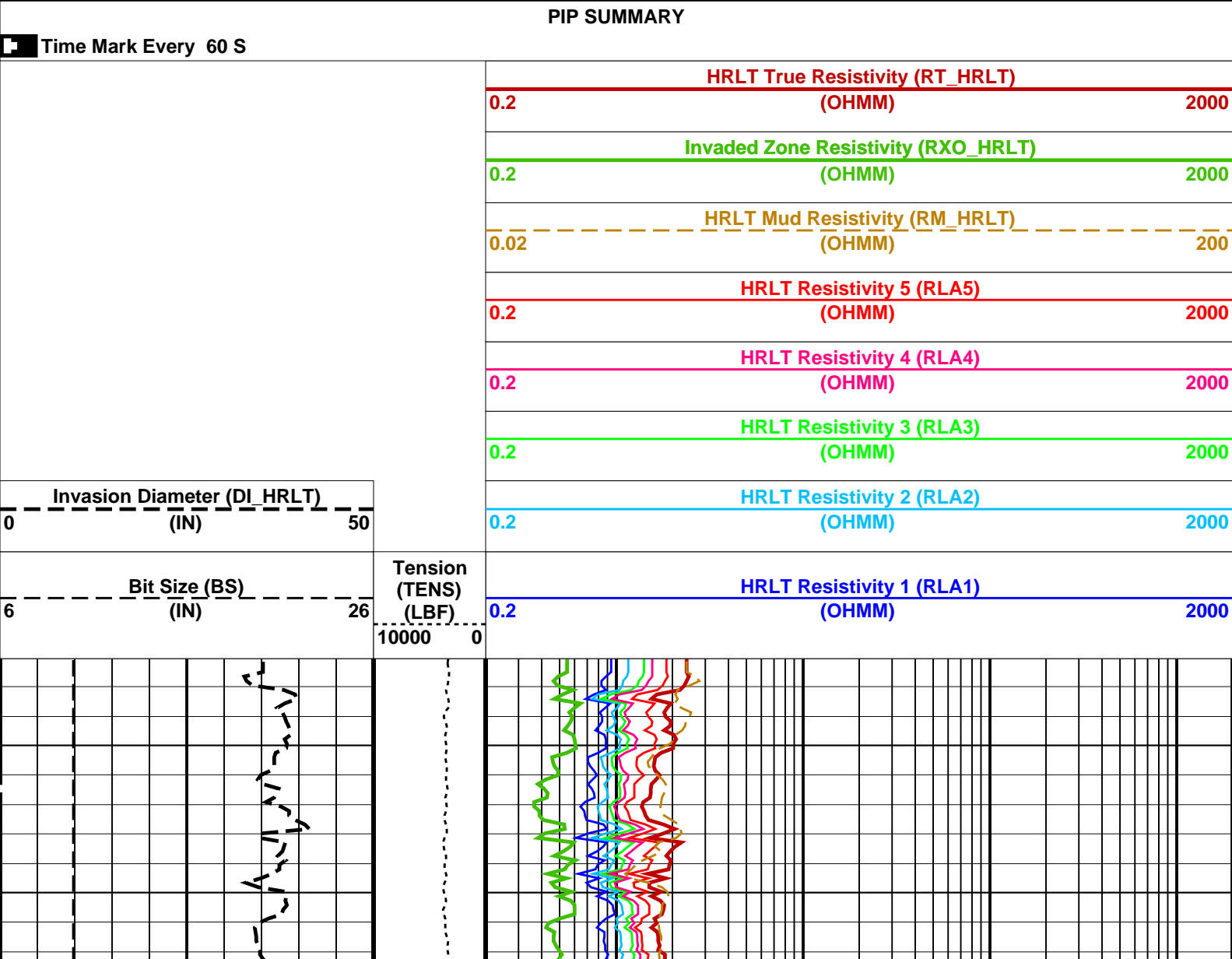
Time Mark Every 60 S

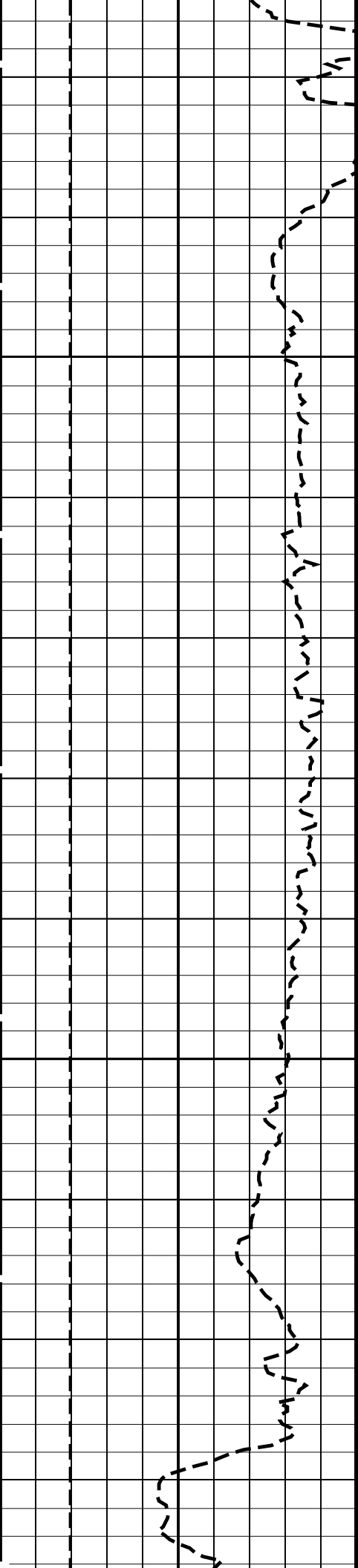
Parameters

DLIS Name	Description	Value
HLDS: Hostile Litho-Density Sonde		
DHC	Density Hole Correction	BS
DPPM	Density Porosity Processing Mode	HIRS
FD	Fluid Density	1 G/C3
LATC	HLDS Activation Correction	OFF
MDEN	Matrix Density	2.6 G/C3
EDTC-B: Enhanced DTS Cartridge		
DPPM	Density Porosity Processing Mode	HIRS
System and Miscellaneous		

BS	System and Miscellaneous	Bit Size	9.875	IN
Format: HLDSDensityPE	Vertical Scale: 1:200	Graphics File Created: 30-Jan-2024 00:58		
OP System Version: 19C0-187				
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187	
HLDS	19C0-187	LDSC-B	19C0-187	
HNGC-B	19C0-187	HNGS-BA	19C0-187	
EDTC-B	19C0-187			
Output DLIS Files				
DEFAULT	MSS_LDEO_HRLA_LDL_013LUP	FN:11	PRODUCER	30-Jan-2024 00:58

Company: International Ocean Discovery Program				Well: Expedition 401, Site U1611A			
Output DLIS Files							
DEFAULT	MSS_LDEO_HRLA_LDL_013LUP	FN:11	PRODUCER	30-Jan-2024 00:58	1725.9 M	1626.9 M	
OP System Version: 19C0-187							
MSS_LDEO-A	19C0-187		HRLT-B	19C0-187			
HLDS	19C0-187		LDSC-B	19C0-187			
HNGC-B	19C0-187		HNGS-BA	19C0-187			
EDTC-B	19C0-187						

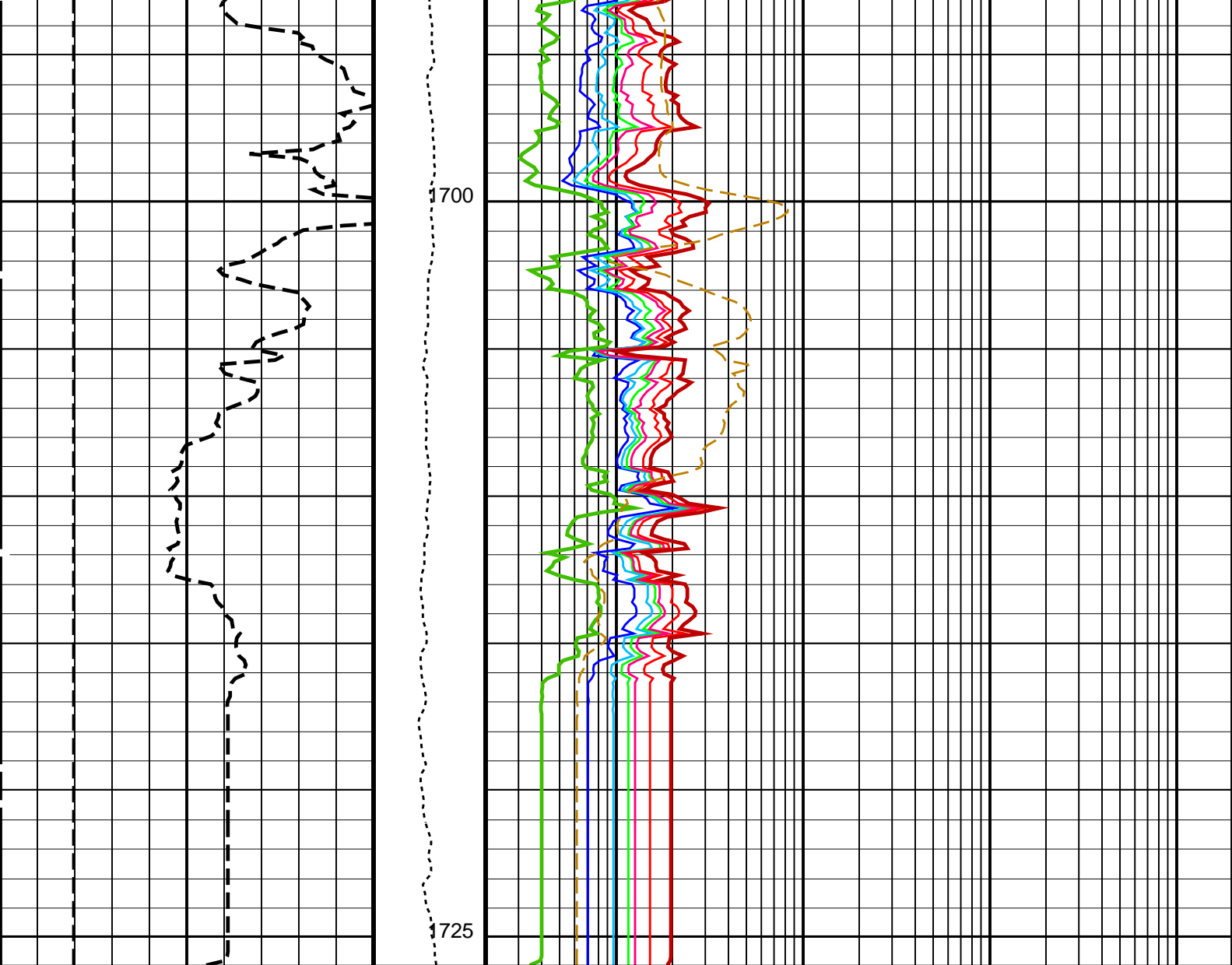




1650

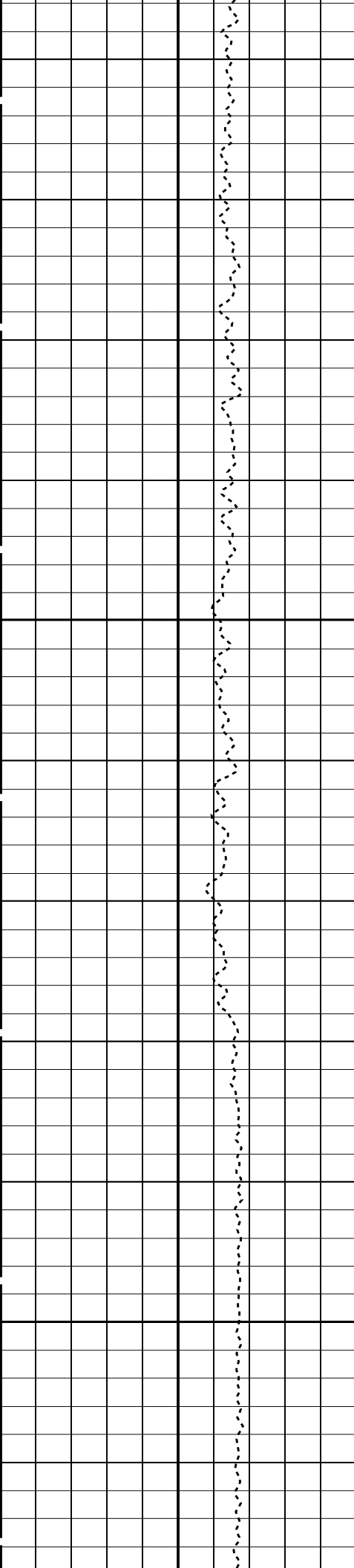
1675





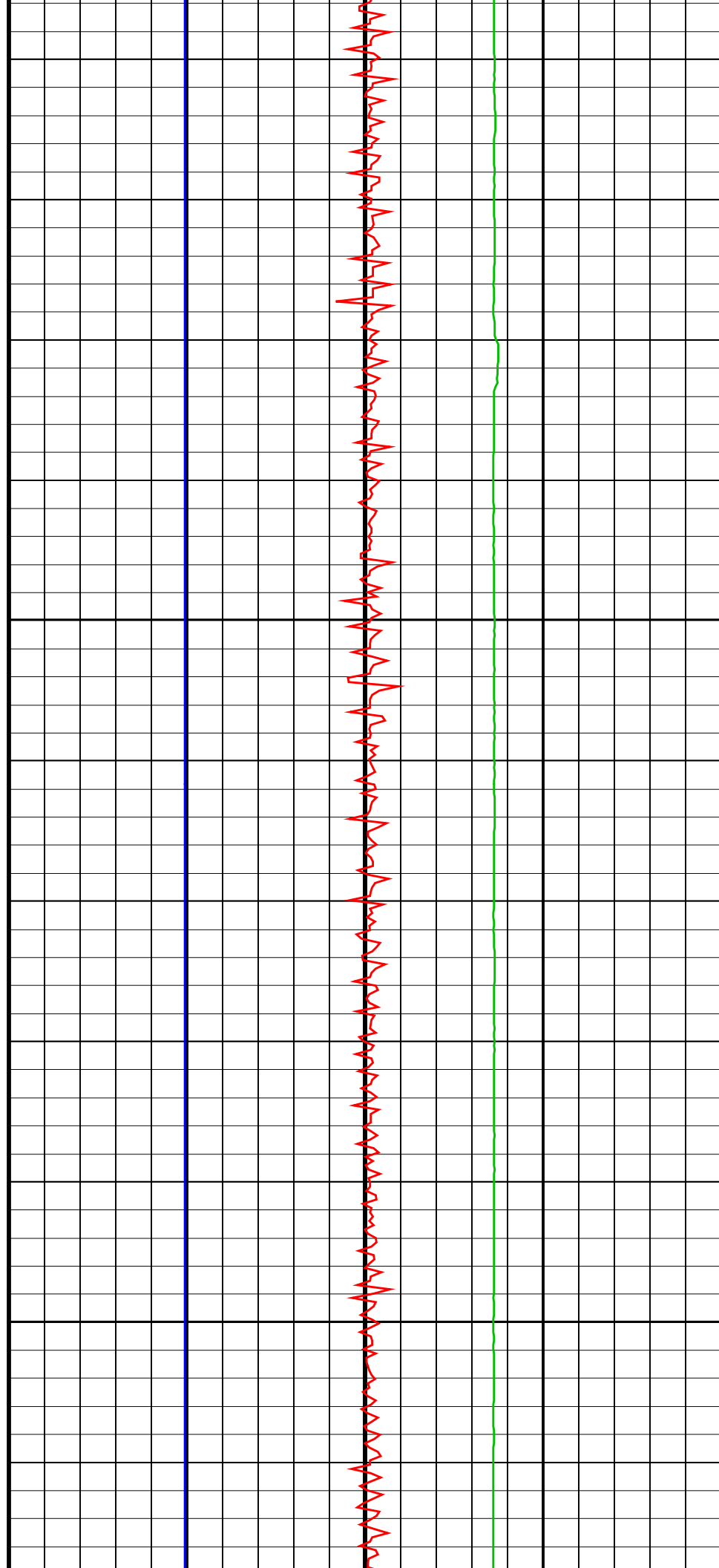
6	Bit Size (BS) (IN)	26	Tension (TENS) (LBF)	10000	0	HRLT Resistivity 1 (RLA1)	
						0.2	2000
0	Invasion Diameter (DI_HRLT) (IN)	50				HRLT Resistivity 2 (RLA2)	
						0.2	2000
HRLT Resistivity 3 (RLA3)							
0.2	2000						
HRLT Resistivity 4 (RLA4)							
0.2	2000						
HRLT Resistivity 5 (RLA5)							
0.2	2000						
HRLT Mud Resistivity (RM_HRLT)							
0.02	200						
Invaded Zone Resistivity (RXO_HRLT)							
0.2	2000						
HRLT True Resistivity (RT_HRLT)							
0.2	2000						

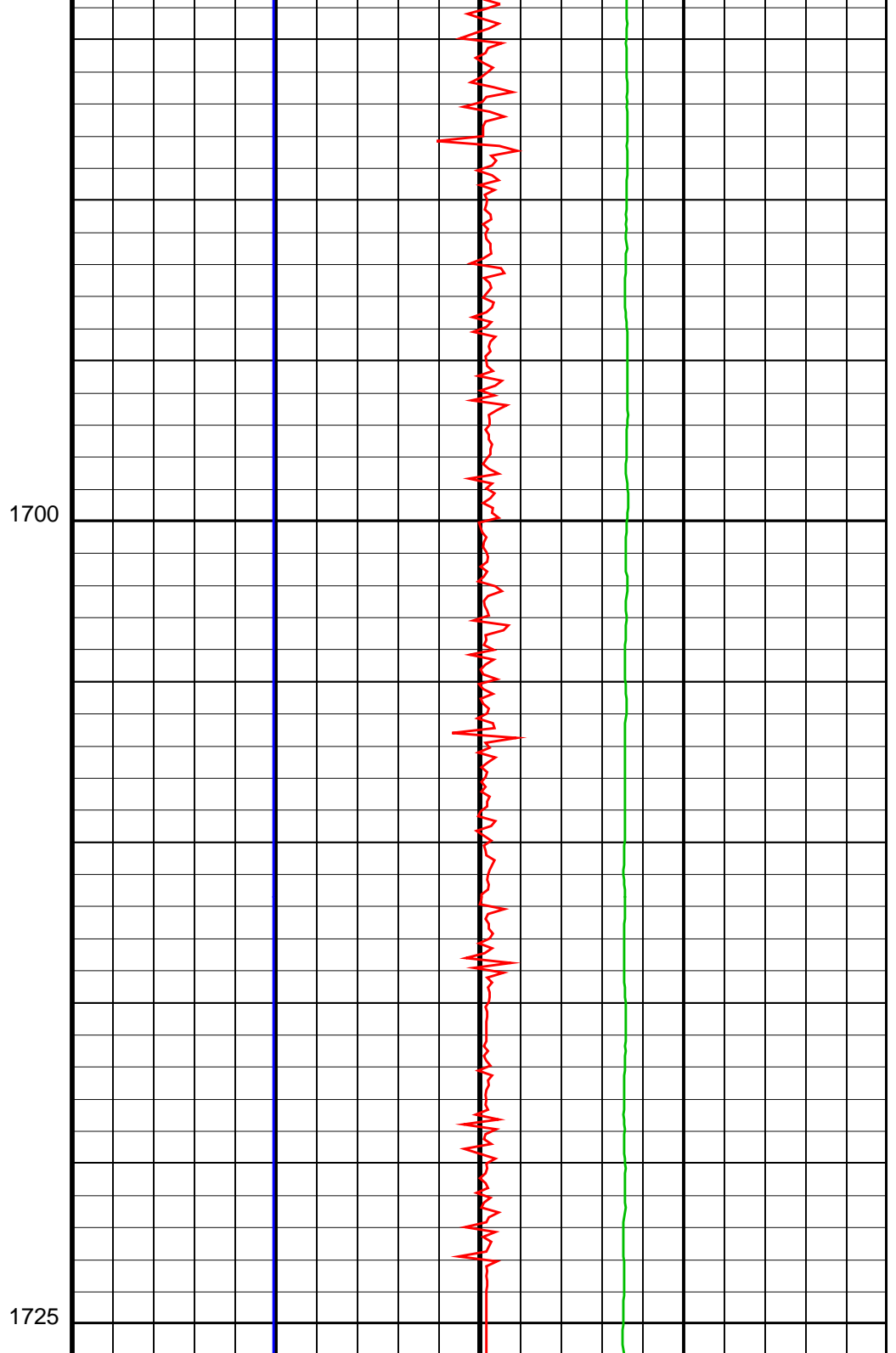
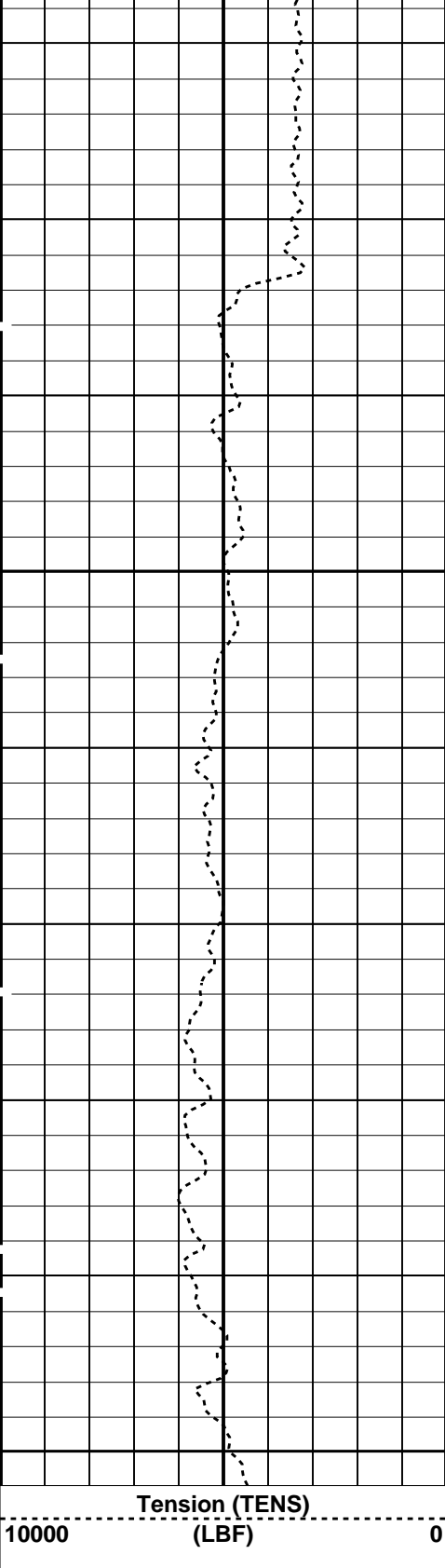
PIP SUMMARY



1650

1675





Axial Acceleration (MSSZACC_LDEO)		
0	(M/S ²)	20
High-Res Susceptibility (MSSHUSUS_LDEO)		
-10000	(PPM)	90000
Dual-Coil Susceptibility (MSSLUSUS_LDEO)		
-10000	(PPM)	90000

PIP SUMMARY

Time Mark Every 60 S


Format: MSS_Logging Vertical Scale: 1:200

Graphics File Created: 30-Jan-2024 00:58

OP System Version: 19C0-187

HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

Output DLIS Files			
DEFAULT	MSS_LDEO_HRLA_LDL_013LUP	FN:11	PRODUCER 30-Jan-2024 00:58



Main Pass

MAXIS Field Log

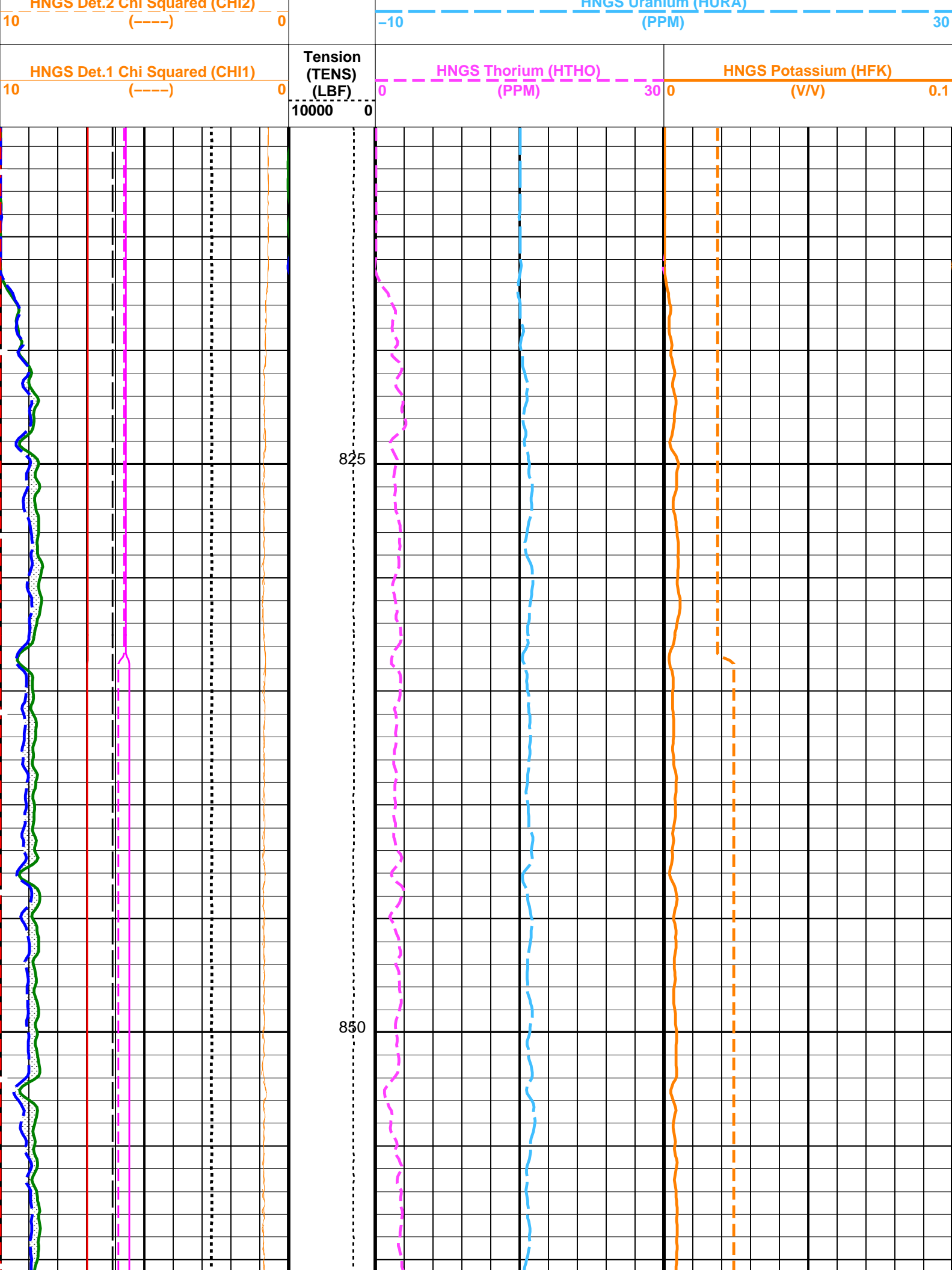
Company: International Ocean Discovery Program	Well: Expedition 401, Site U1611A
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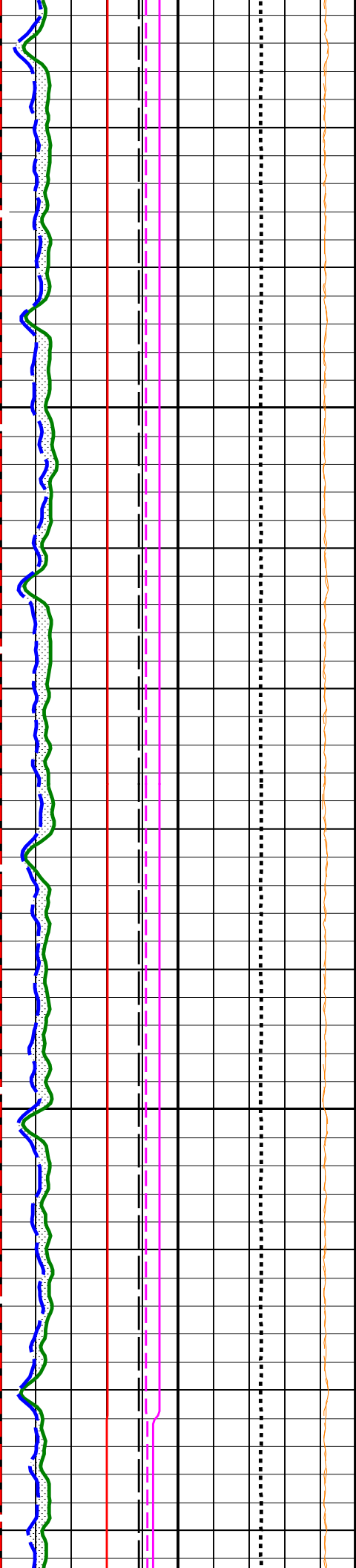
Output DLIS Files			
DEFAULT	MSS_LDEO_HRLA_LDL_014LUP	FN:12	PRODUCER 30-Jan-2024 01:34 1693.9 M 811.5 M

OP System Version: 19C0-187			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

PIP SUMMARY	
Time Mark Every 60 S	

HNGS Spectroscopy Gamma Ray (HSGR)	
0 (GAPI) 150	
HNGS Det.2 Resolution Degradation Factor (RDF2)	
0 (----) 10	
HNGS Det.1 Resolution Degradation Factor (RDF1)	
0 (----) 10	
HNGS Det.2 Gain Correction Factor (GCF2)	
0.9 (----) 1.1	
HNGS Det.1 Gain Correction Factor (GCF1)	
0.9 (----) 1.1	
Area1 From HCGR to HSGR	
HNGS Computed Gamma Ray (HCGR)	
0 (GAPI) 150	
Caliper (LCAL)	
6 (IN) 16	
Bit Size (BS)	
6 (IN) 16	
HNGS Borehole Potassium (HBHK)	
-0.05 (V/V) 0.05	
HNGS Uranium (HURA)	

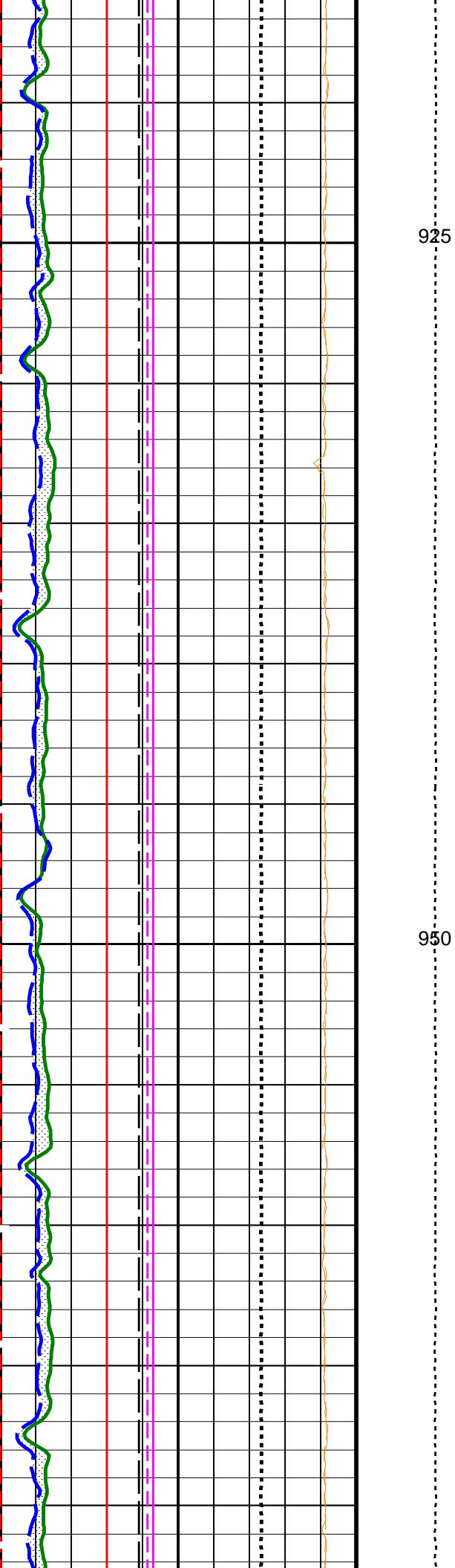




875

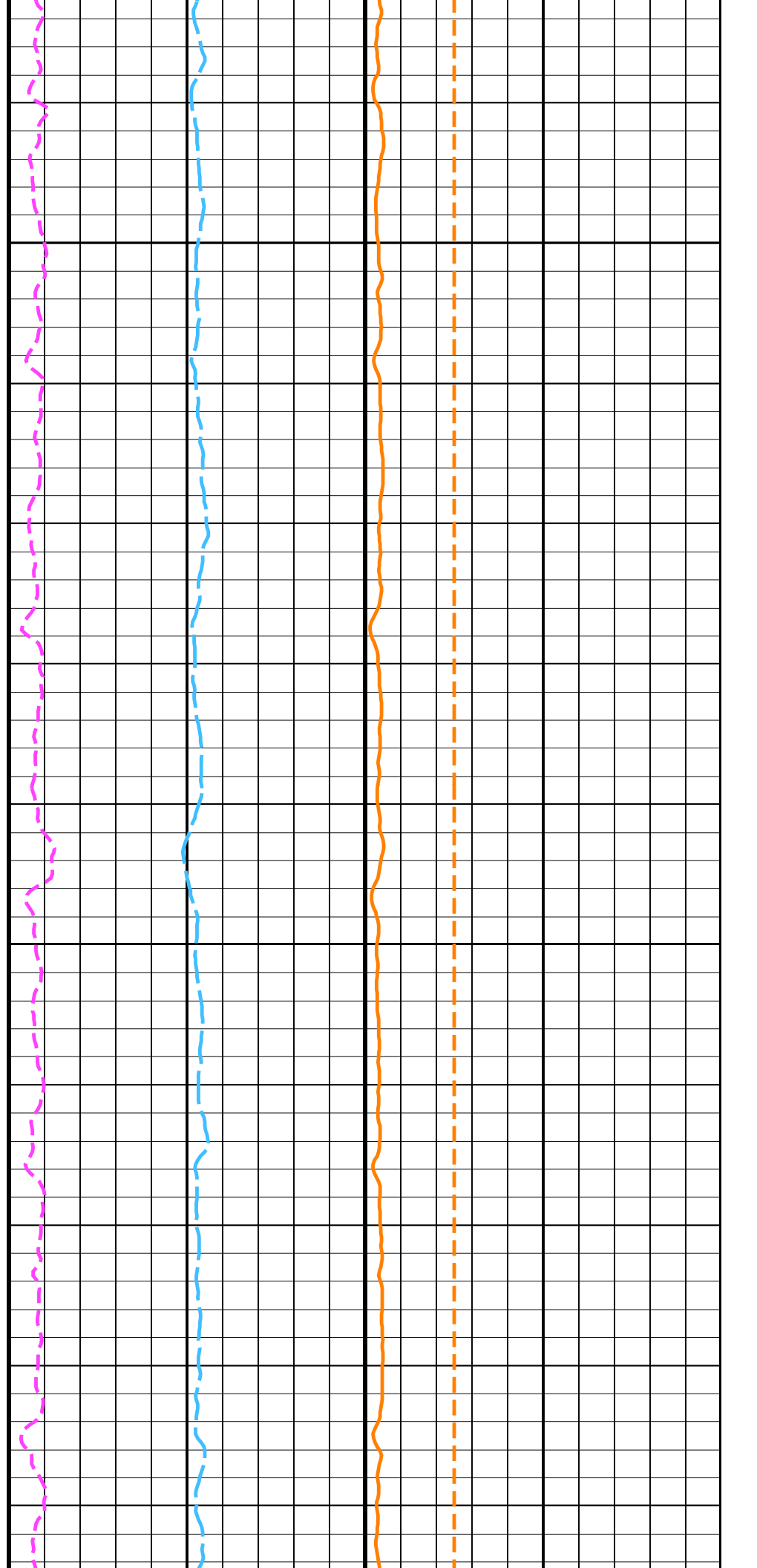
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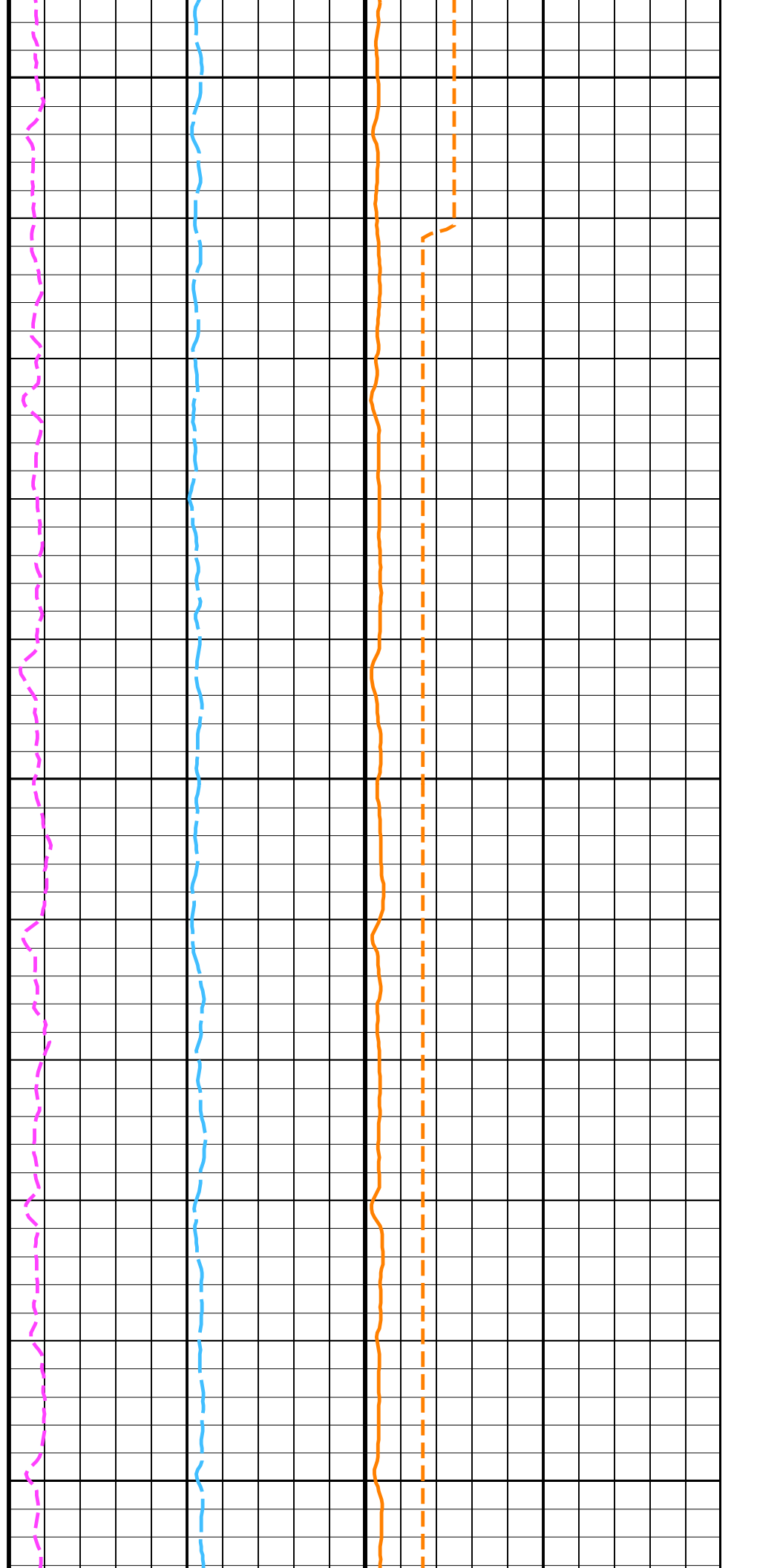
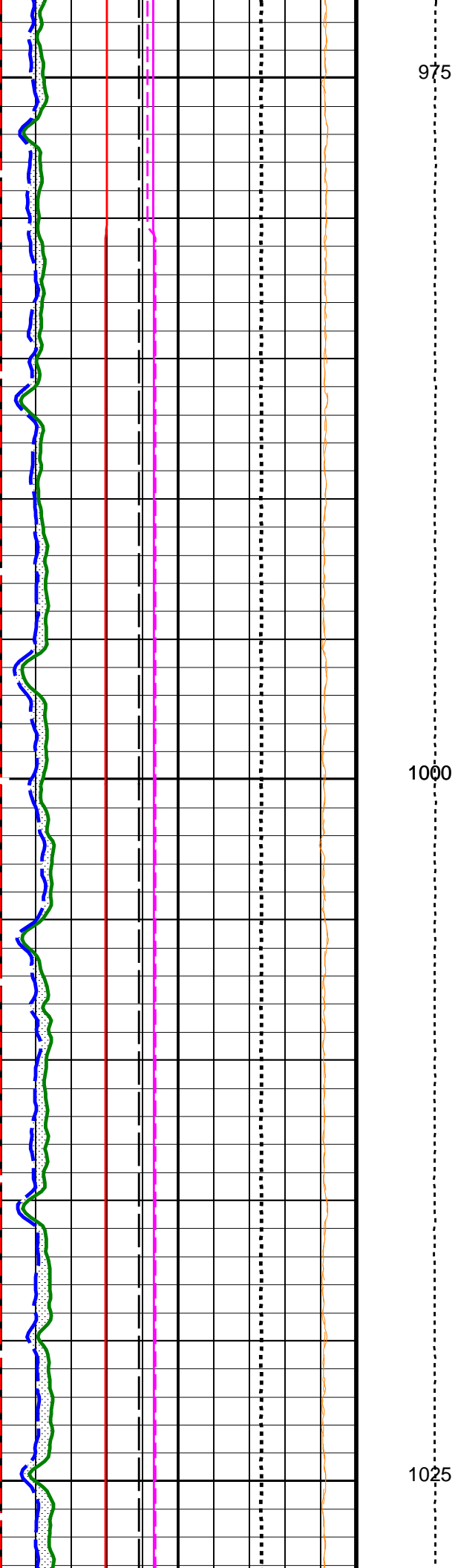


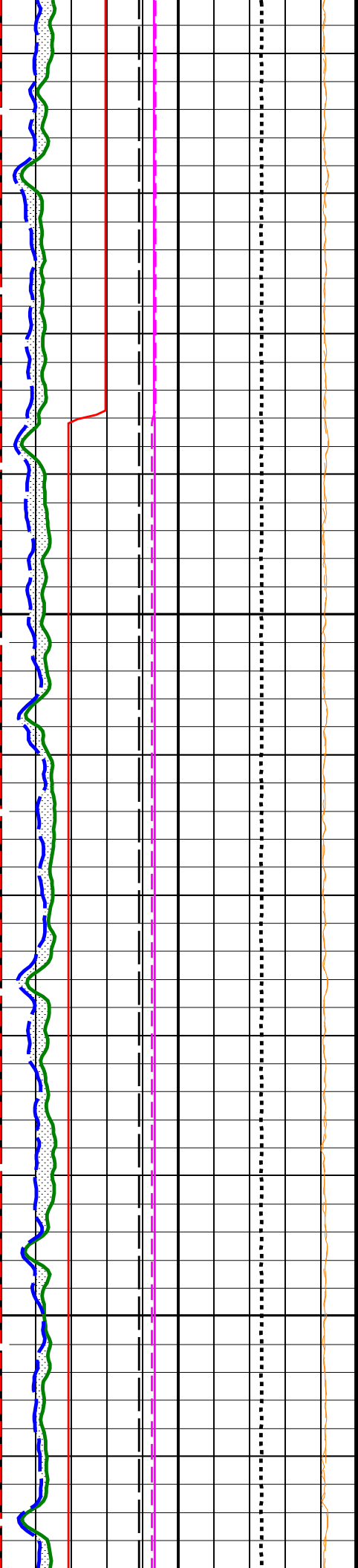


925

950

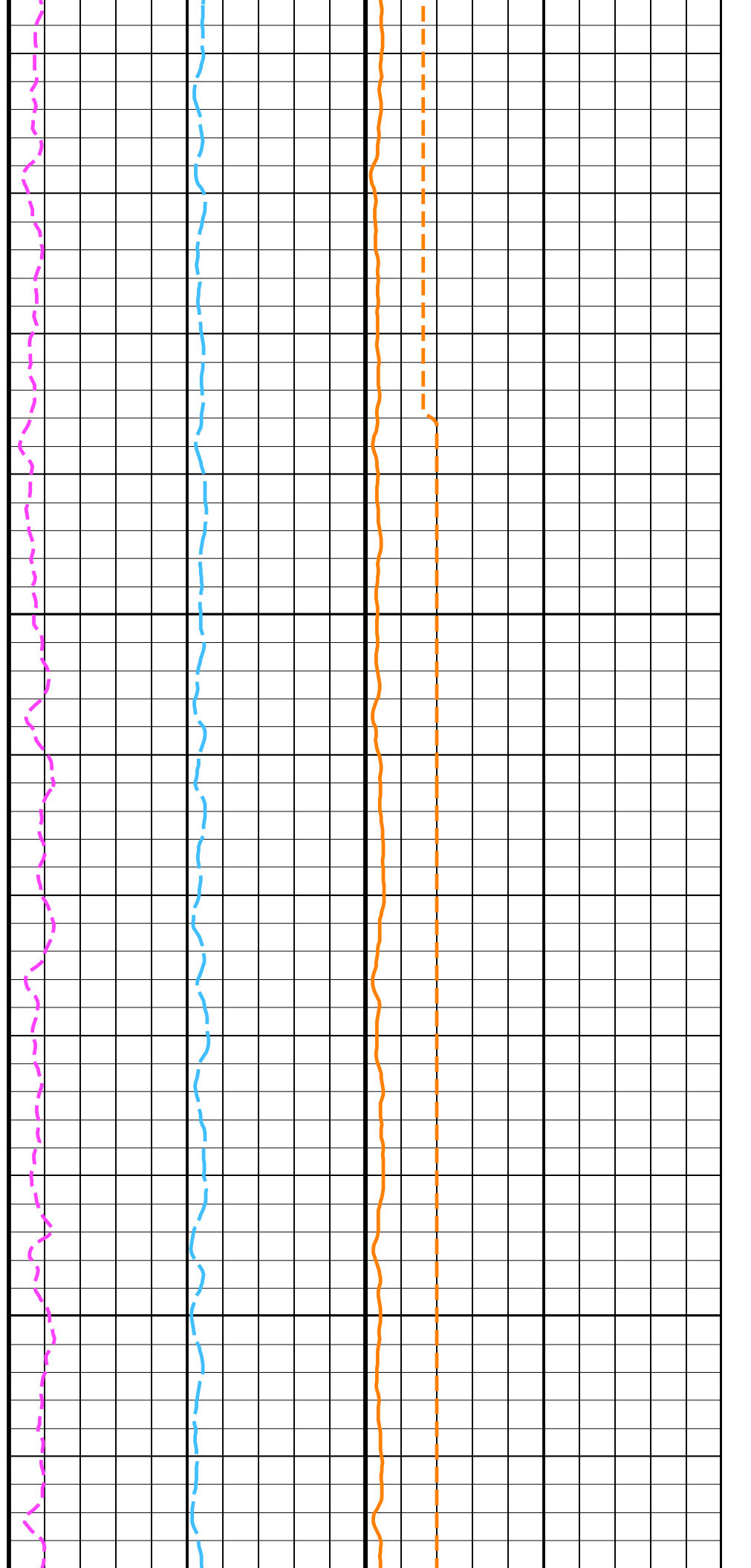


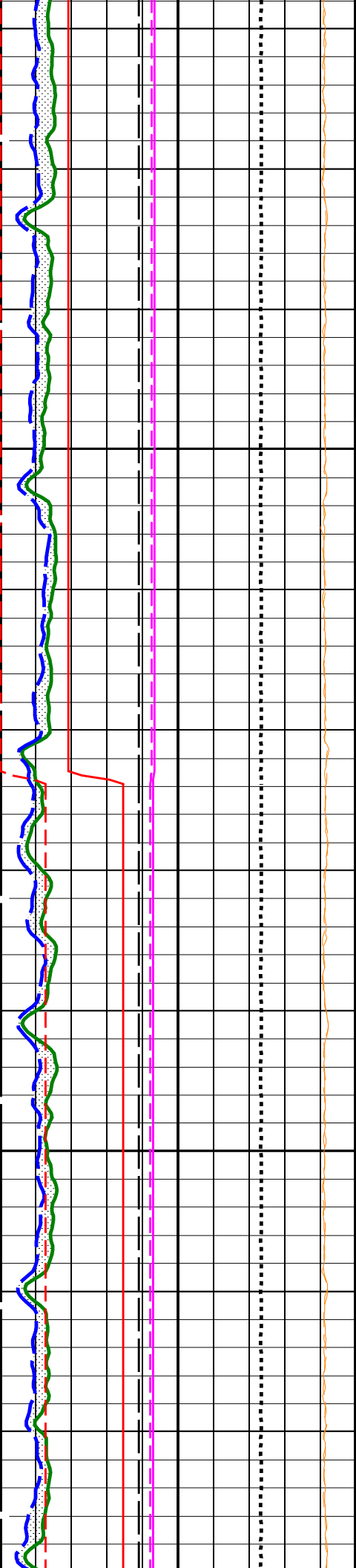




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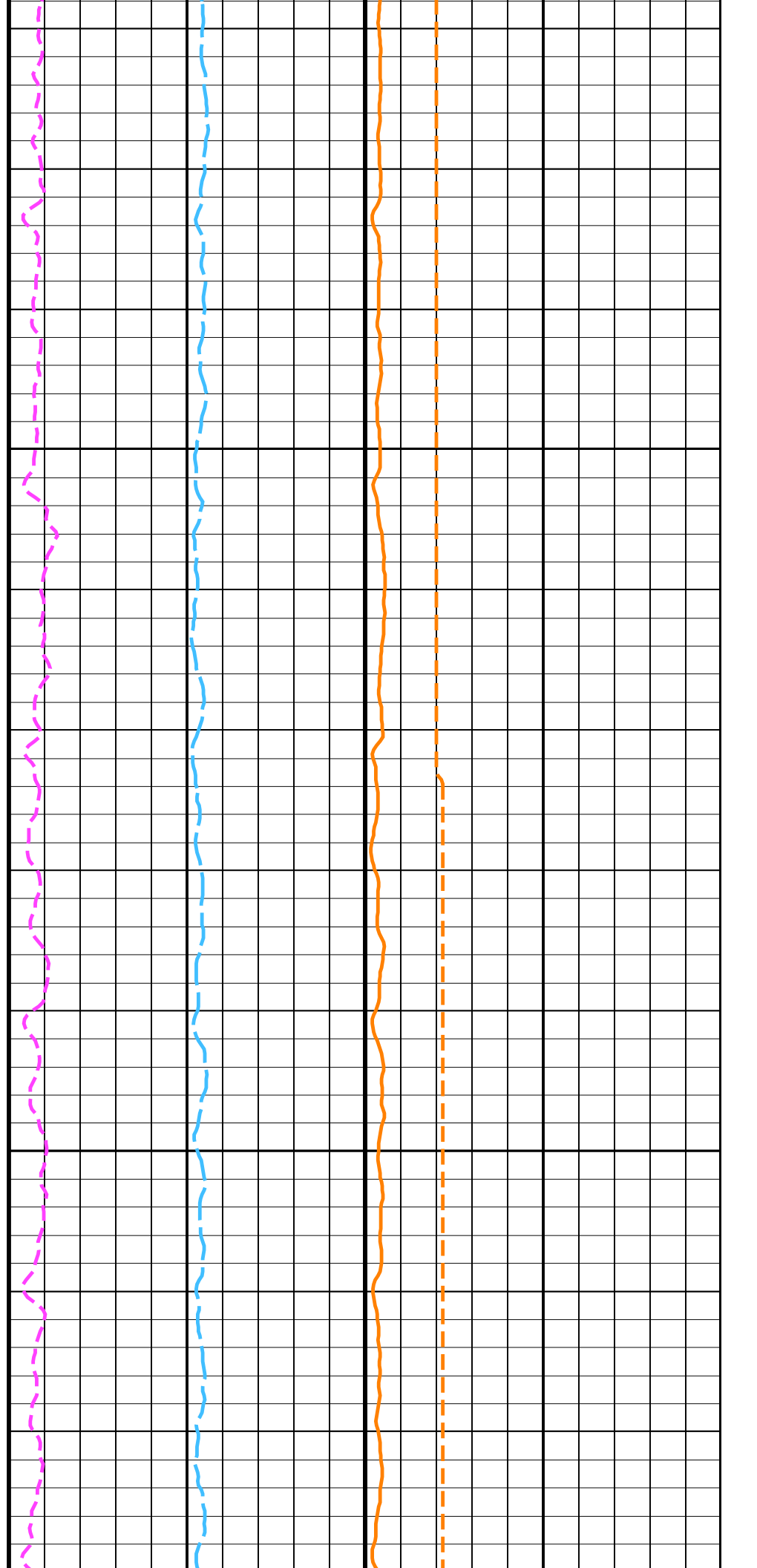
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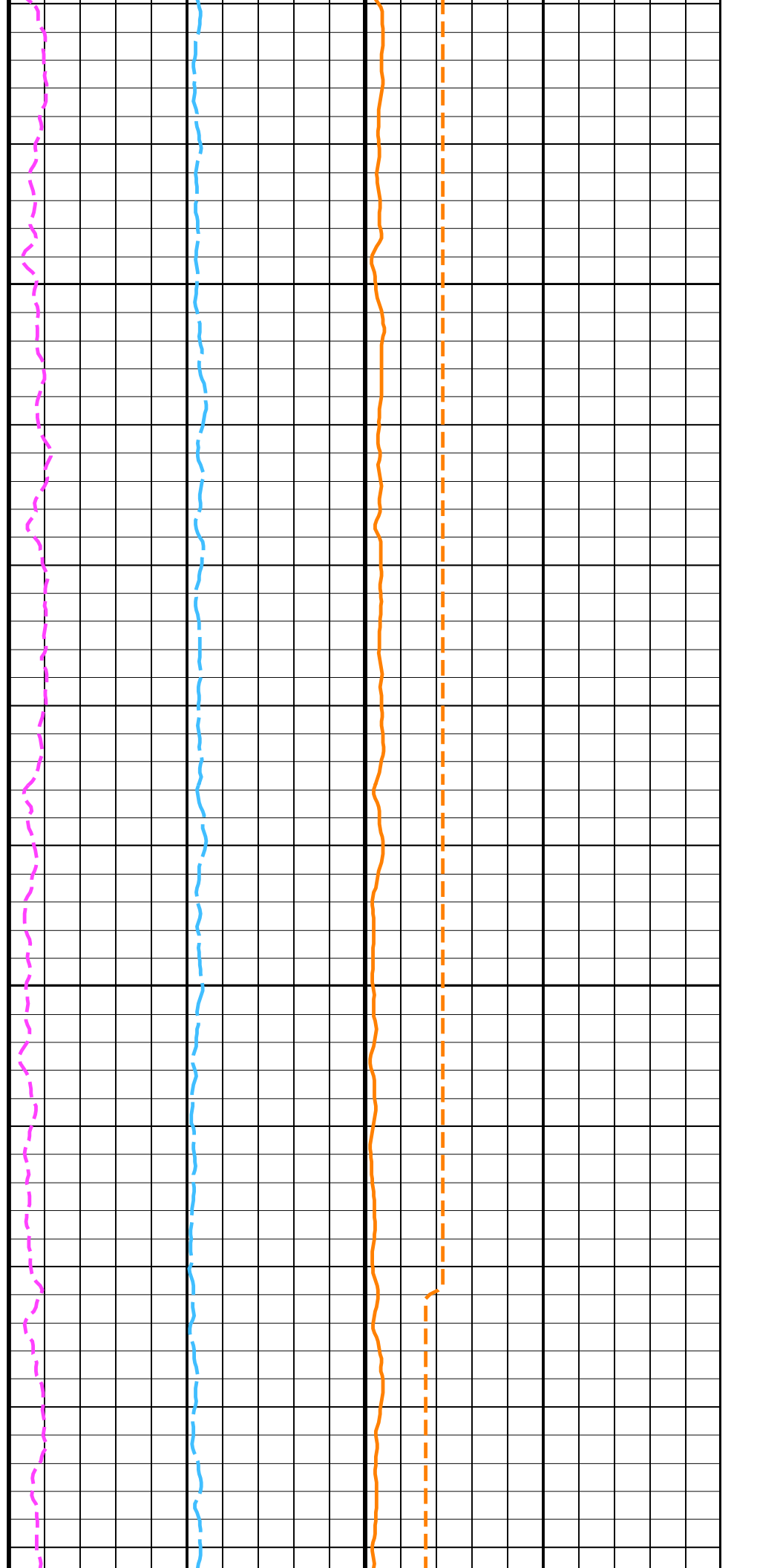
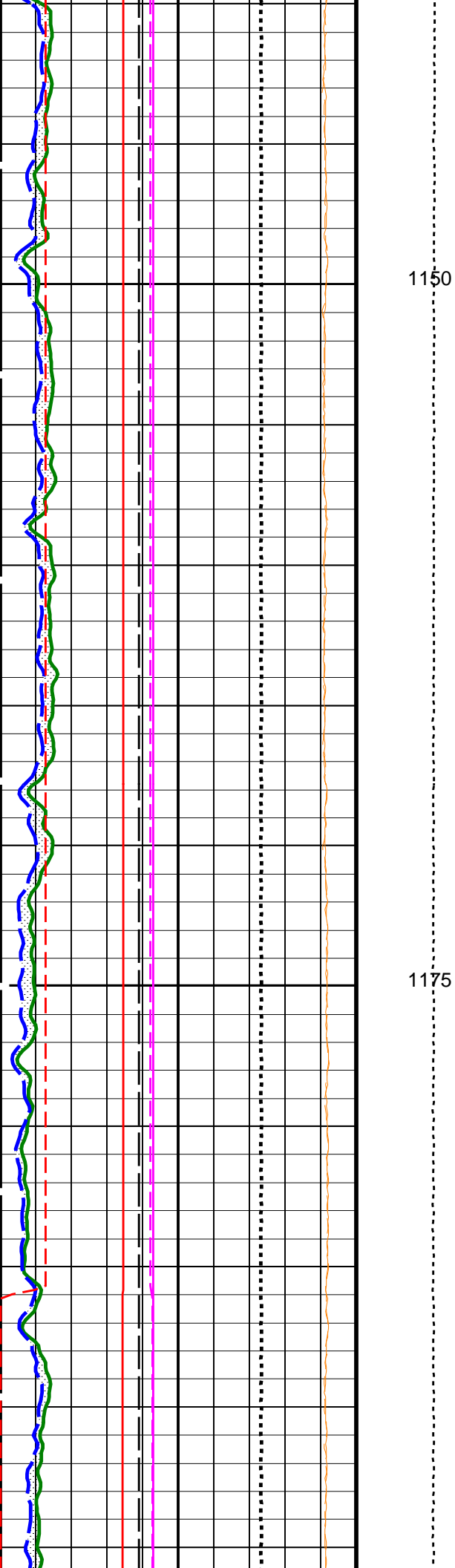


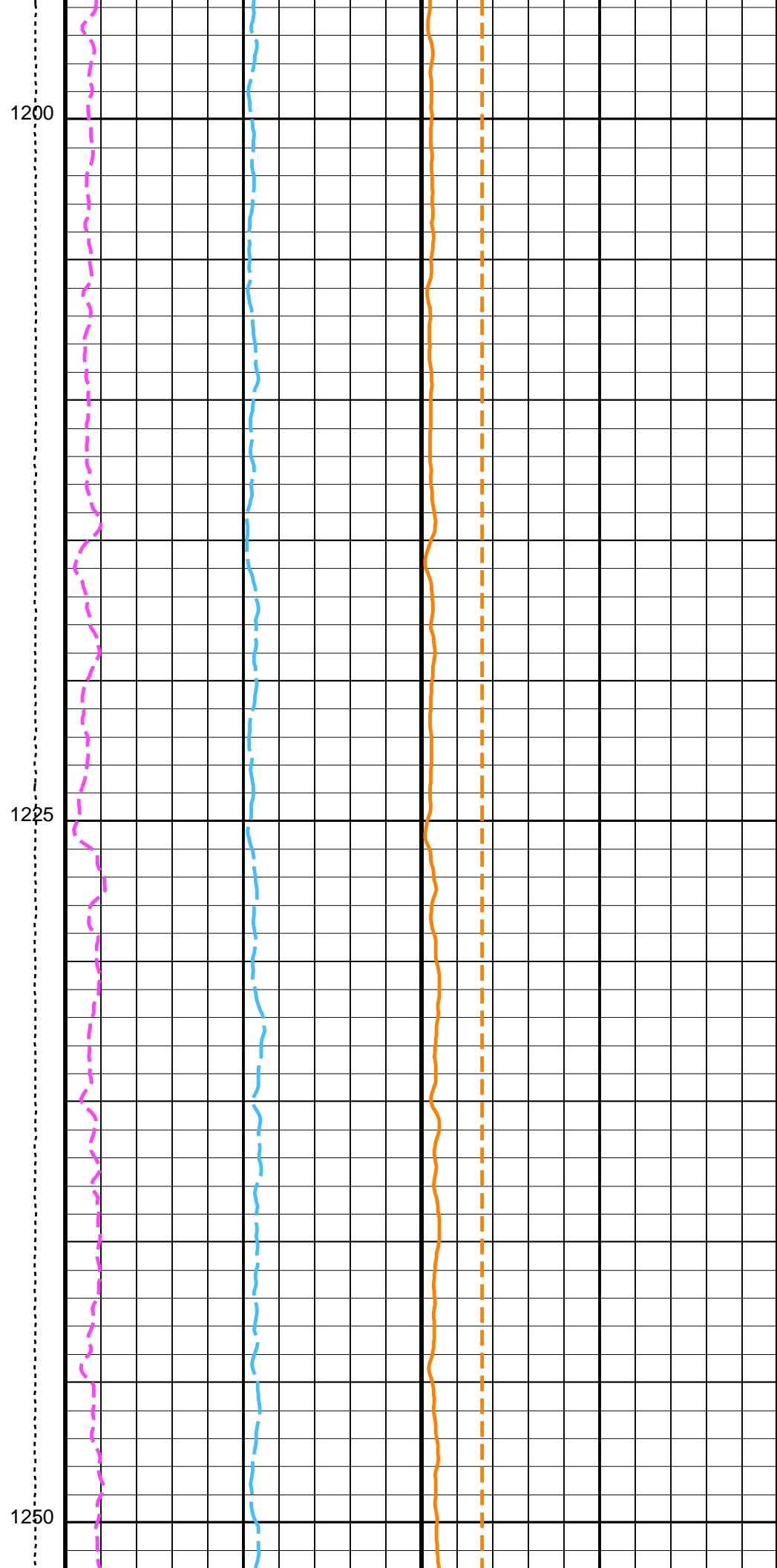
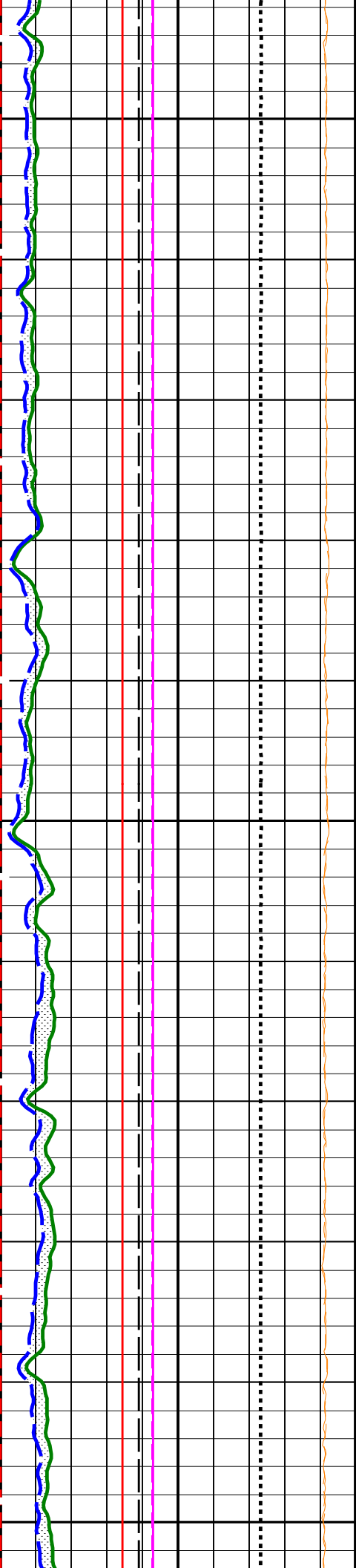


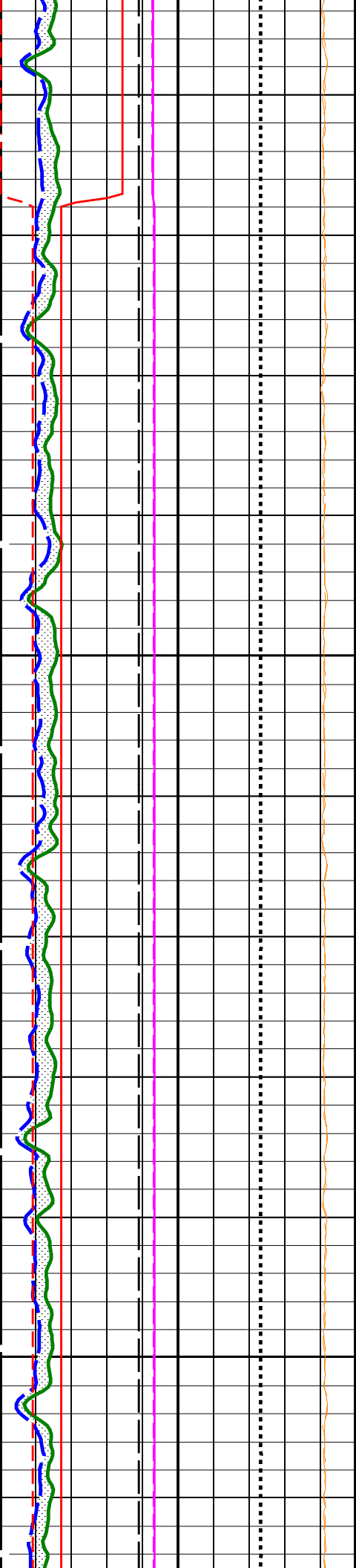
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1125



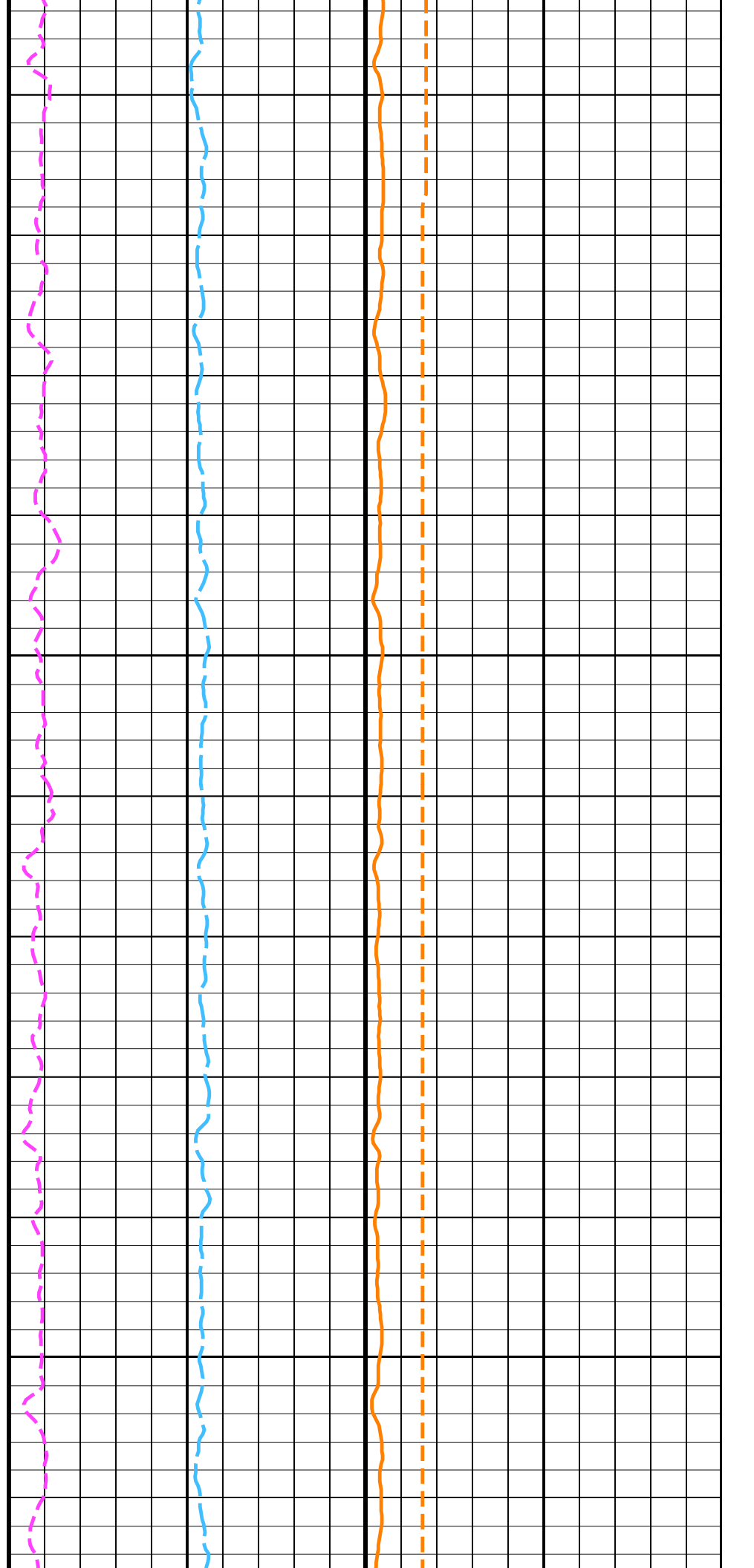


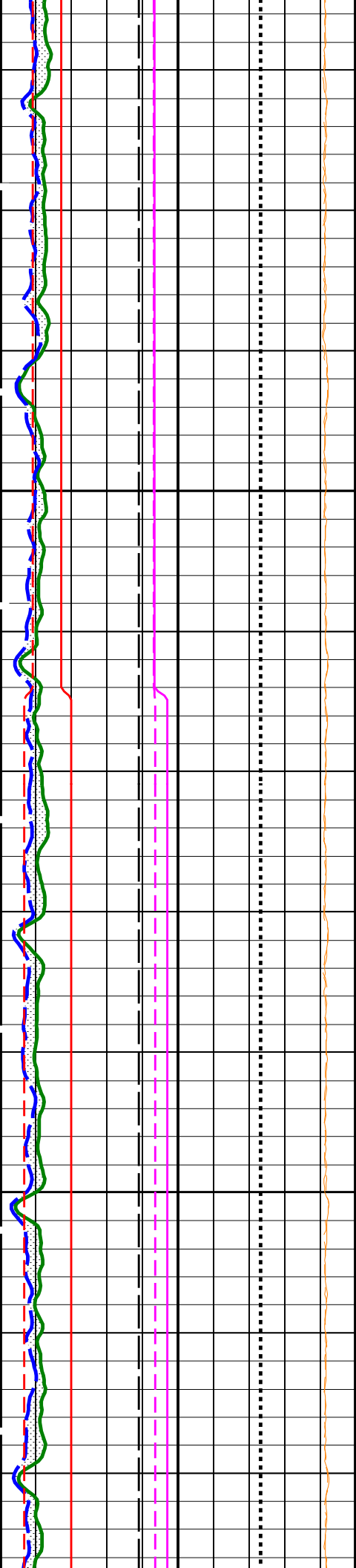




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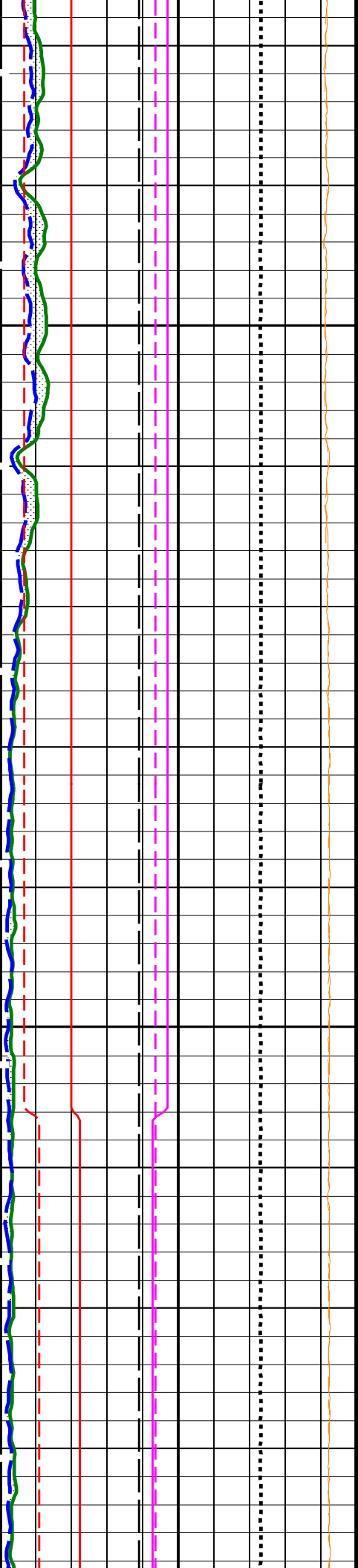




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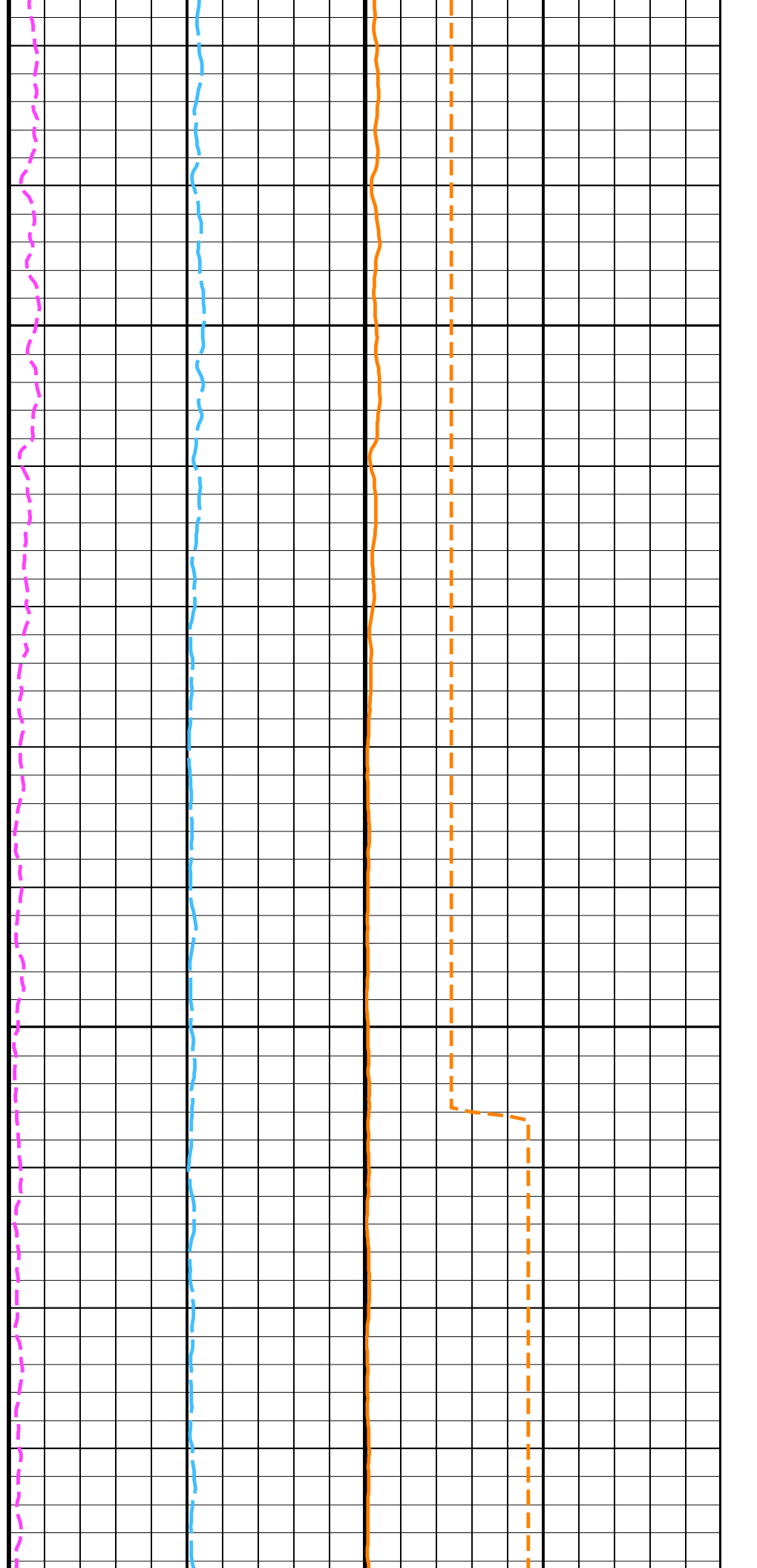
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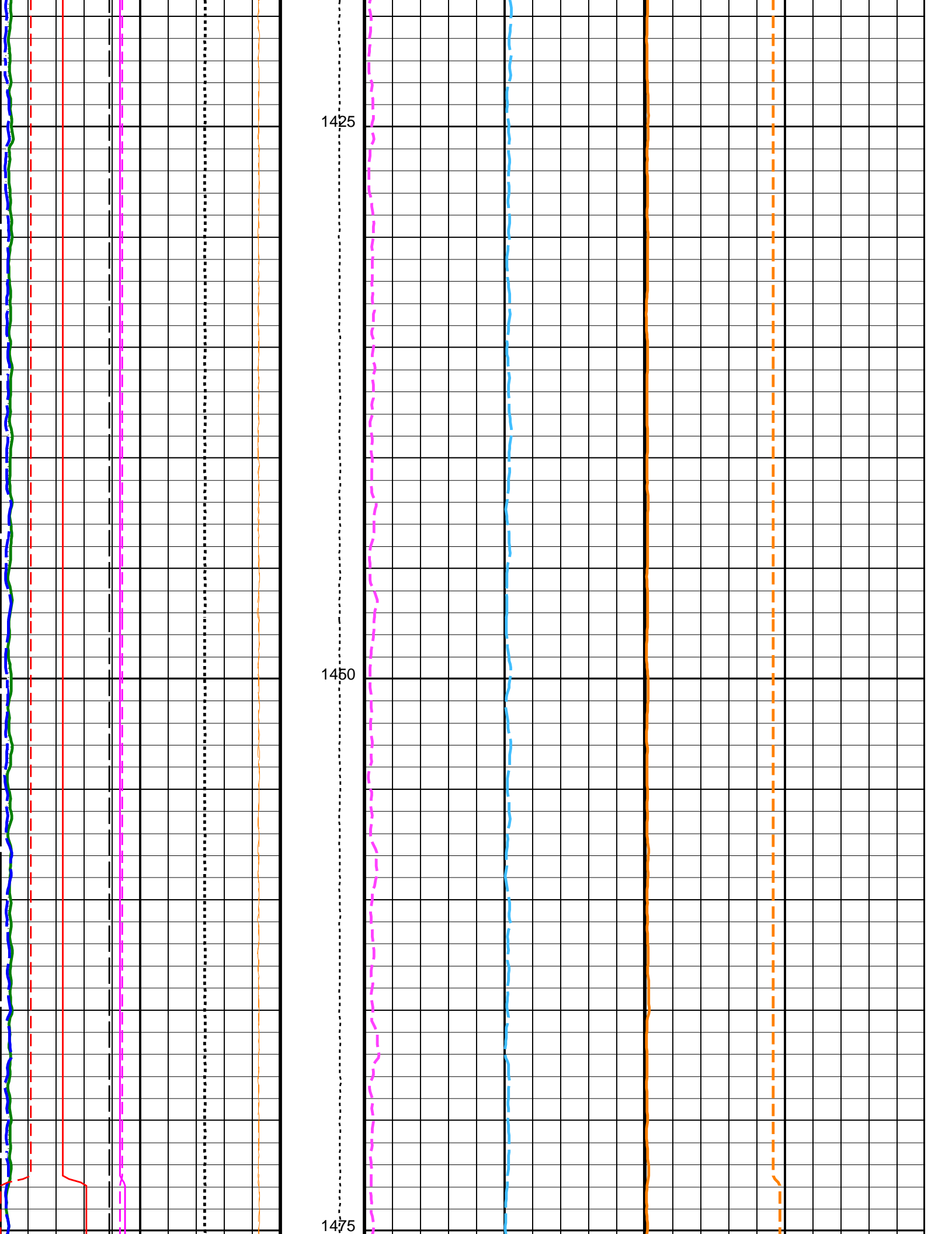


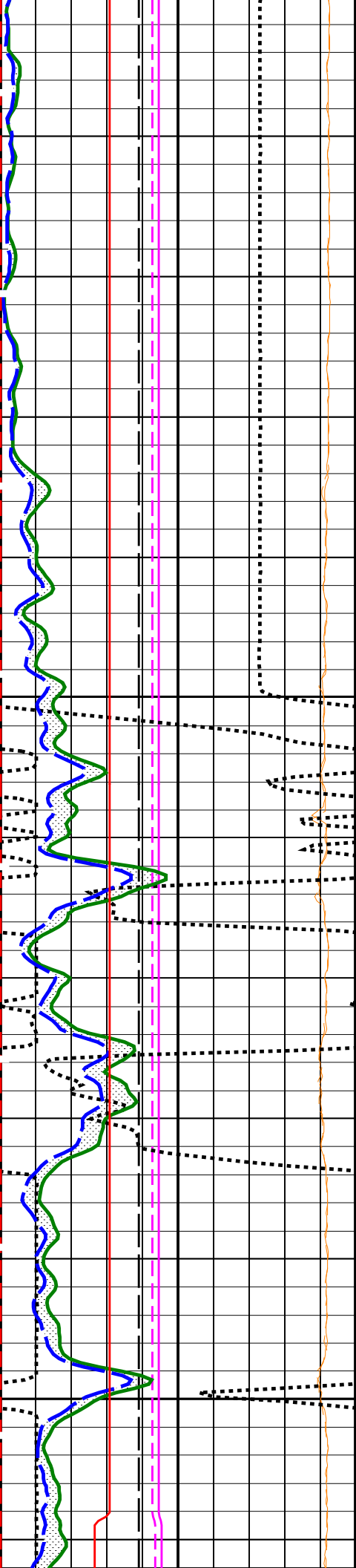


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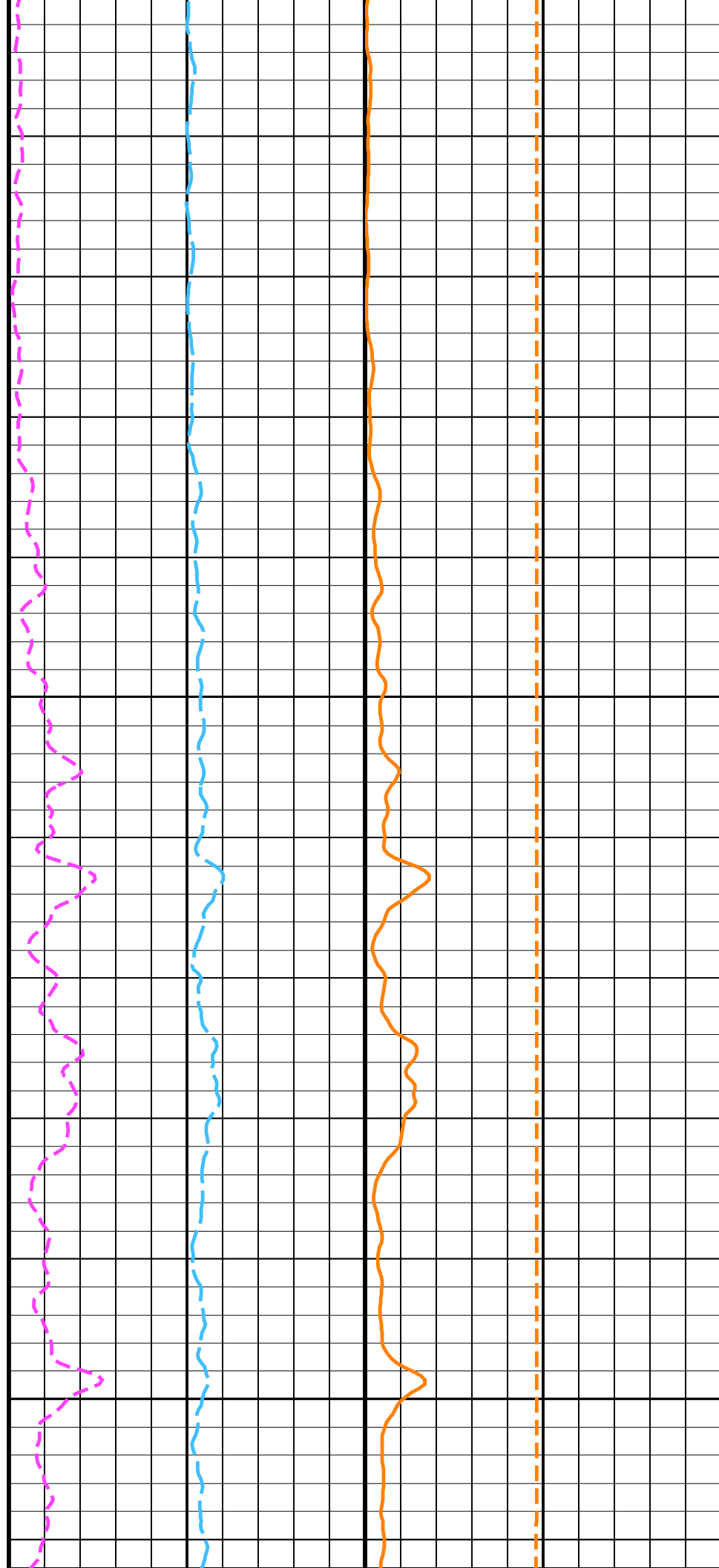


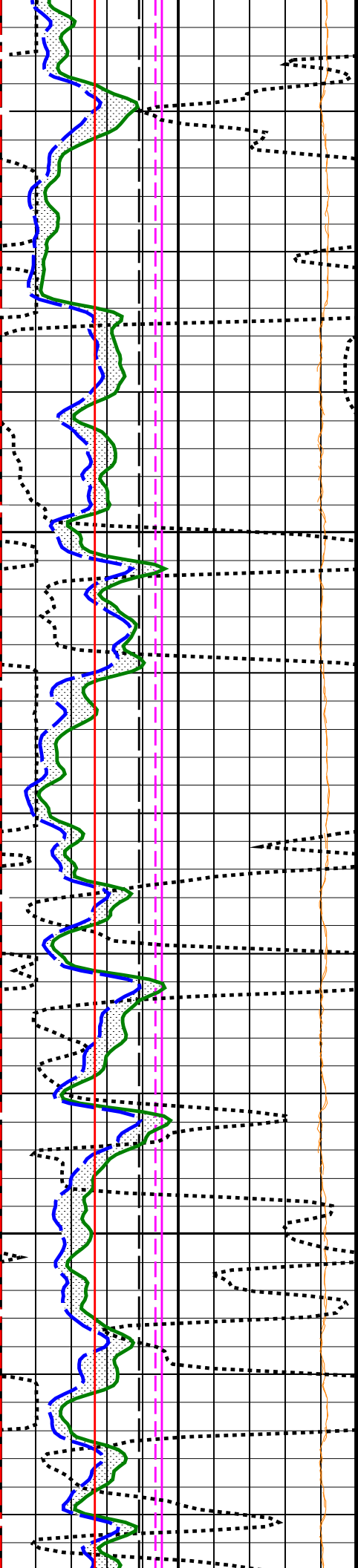




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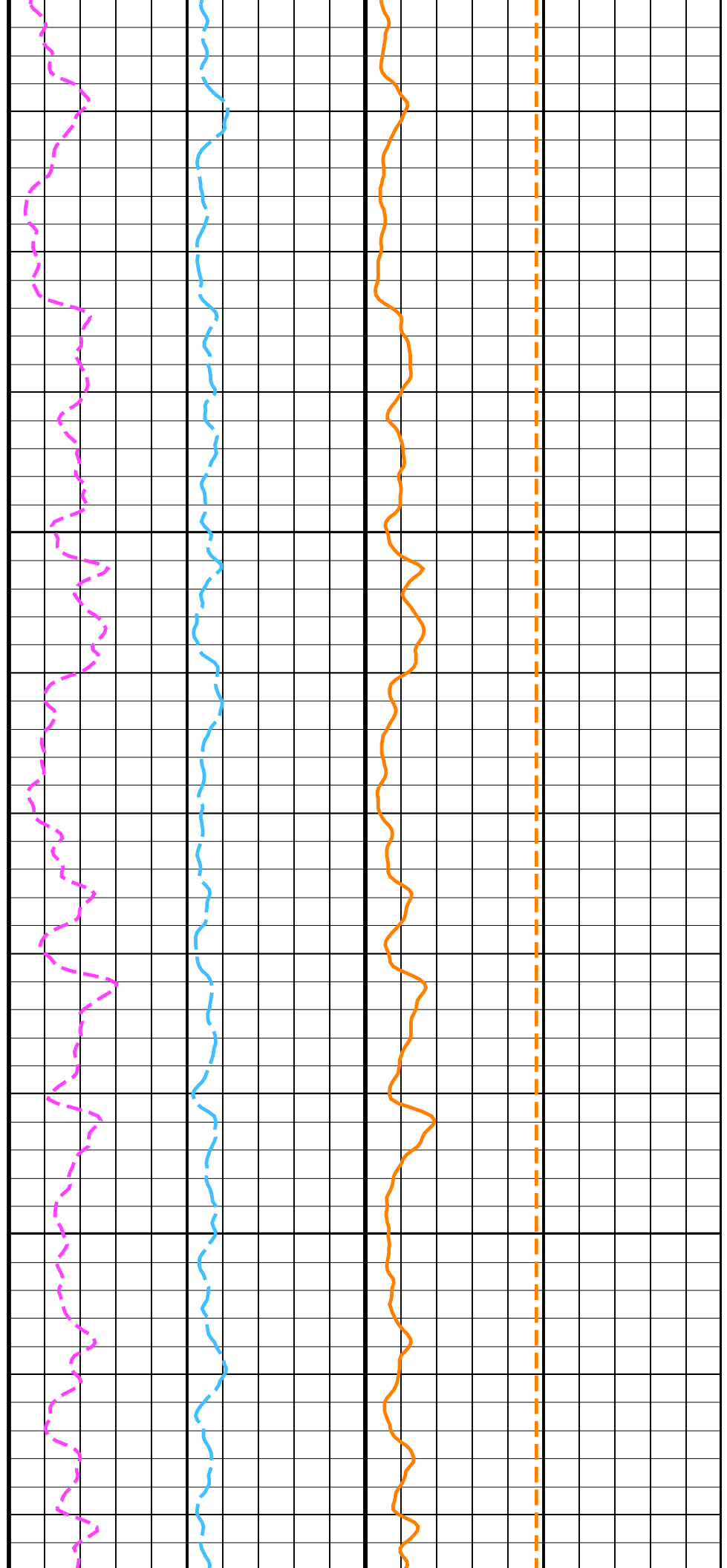
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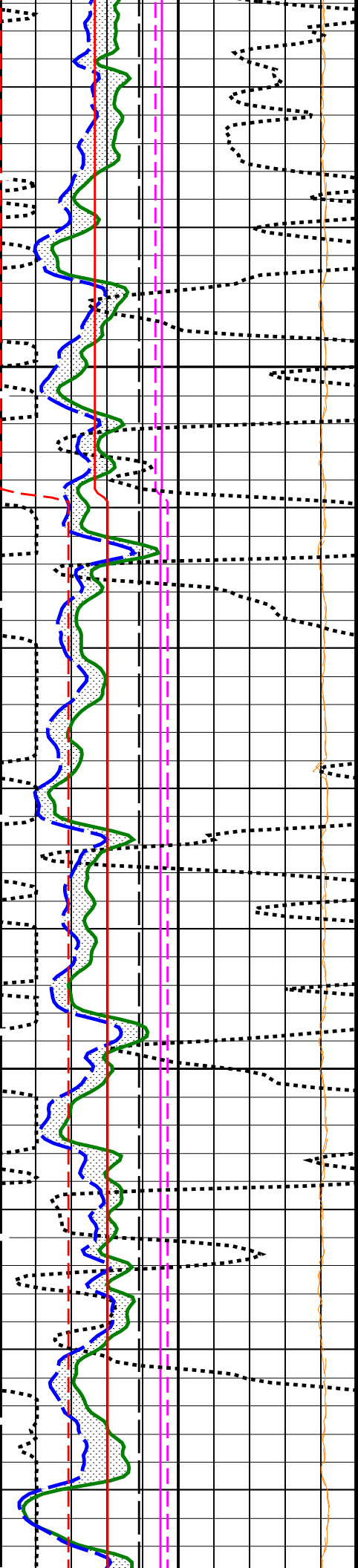




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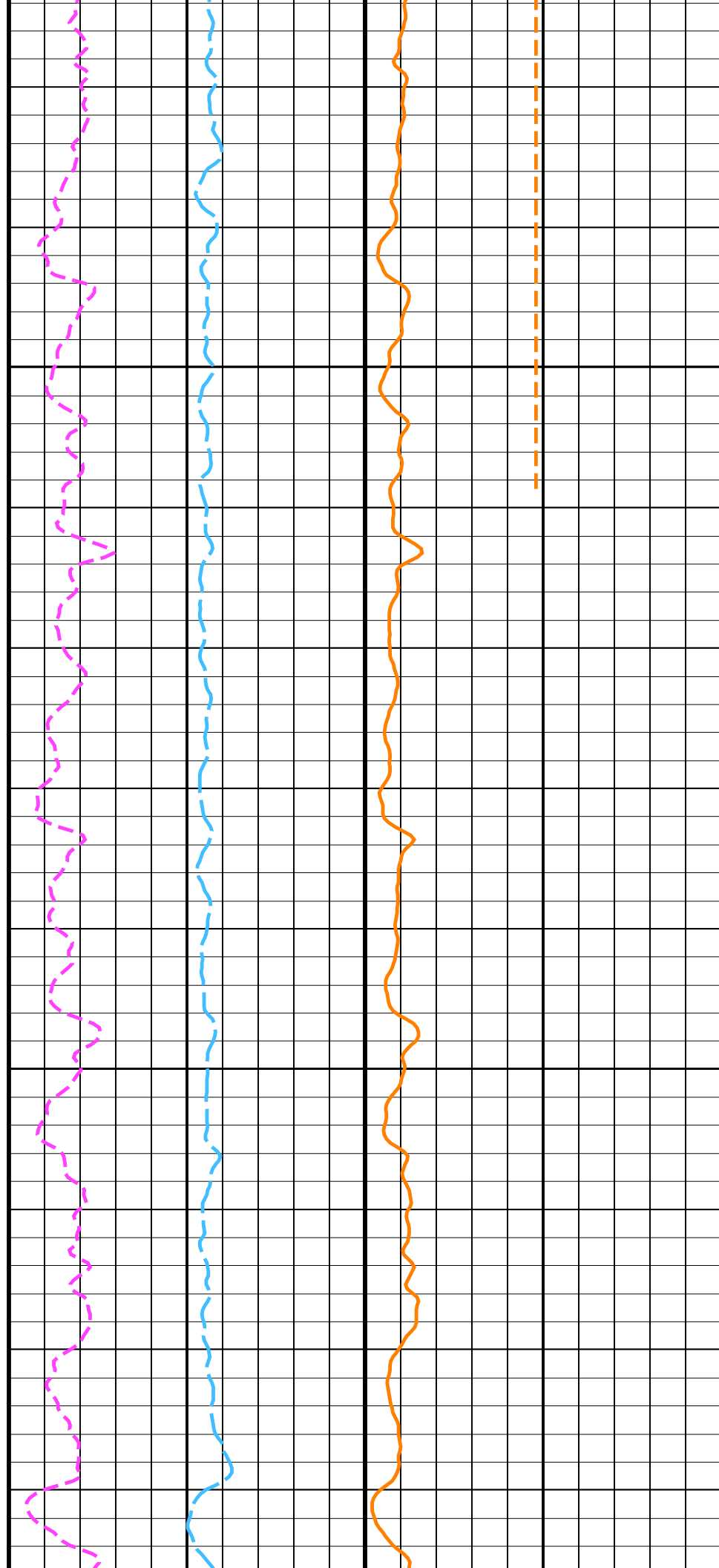
1675

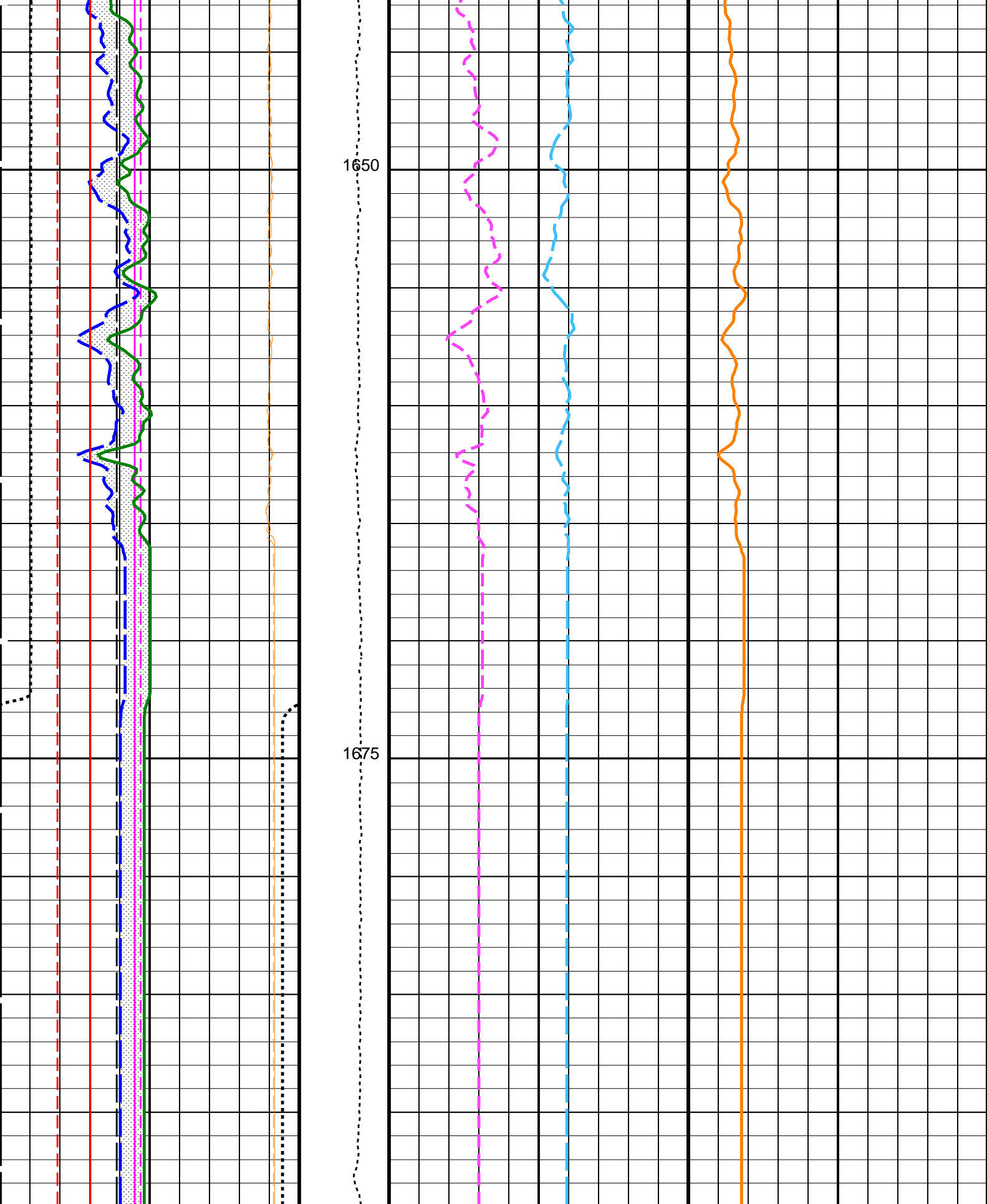




1600

1625





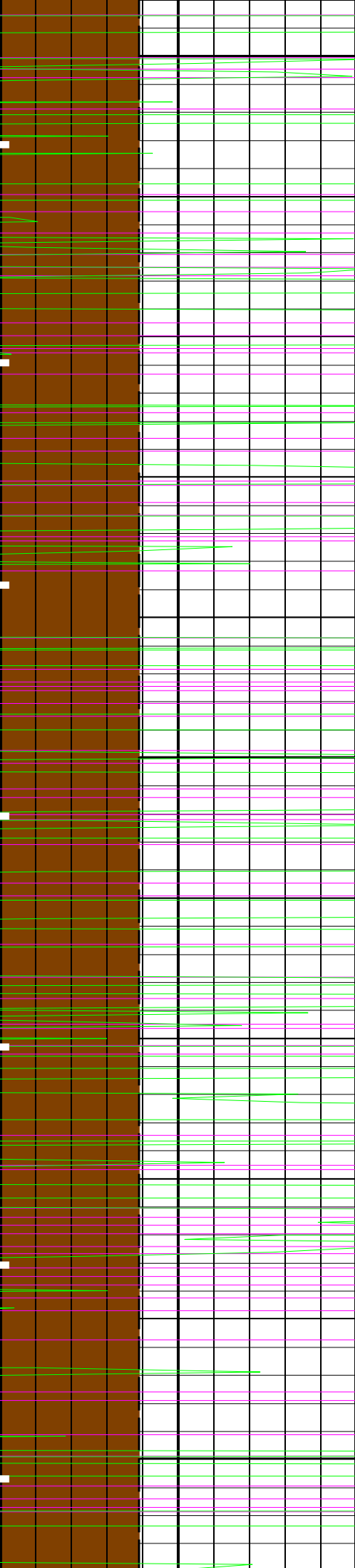
HNGS Det.1 Chi Squared (CHI1) (-----)	Tension (TENS) (LBF)	HNGS Thorium (HTHO) (PPM)	HNGS Potassium (HFK) (V/V)
10 0	10000 0	0 30	0 0.1
HNGS Det.2 Chi Squared (CHI2)		HNGS Uranium (HURA)	

10	(-----)	0	-10	(PPM)	30
Bit Size (BS)			HNGS Borehole Potassium (HBHK)		
6	(IN)	16	-0.05	(V/V)	0.05
Caliper (LCAL)					
6	(IN)	16			
HNGS Computed Gamma Ray (HCGR)					
0	(GAPI)	150			
Area1 From HCGR to HSGR					
HNGS Det.1 Gain Correction Factor (GCF1)					
0.9	(-----)	1.1			
HNGS Det.2 Gain Correction Factor (GCF2)					
0.9	(-----)	1.1			
HNGS Det.1 Resolution Degradation Factor (RDF1)					
0	(-----)	10			
HNGS Det.2 Resolution Degradation Factor (RDF2)					
0	(-----)	10			
HNGS Spectroscopy Gamma Ray (HSGR)					
0	(GAPI)	150			

PIP SUMMARY					
Time Mark Every 60 S					

Parameters			
DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0226194	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.980405	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.965133	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
System and Miscellaneous			
BS	Bit Size	9.875	IN

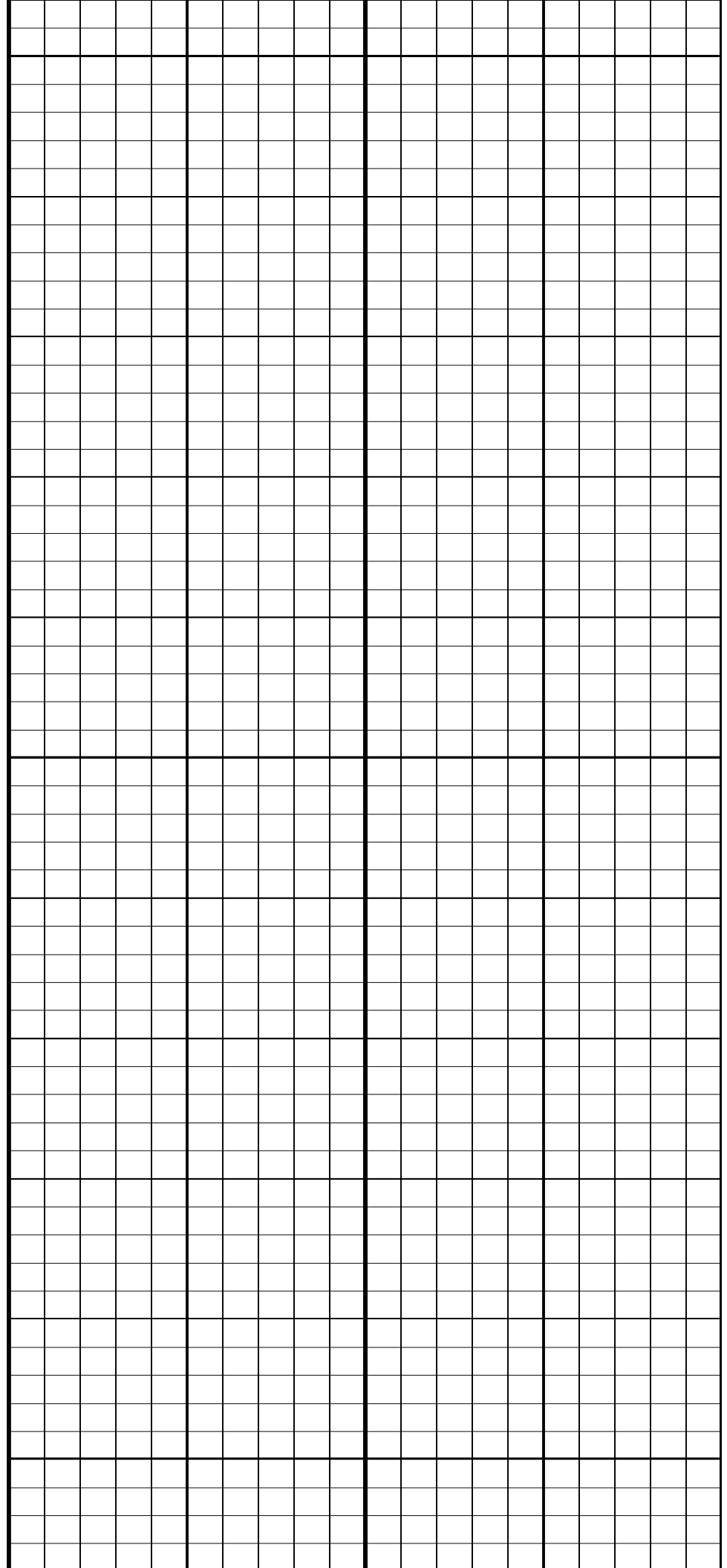
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825

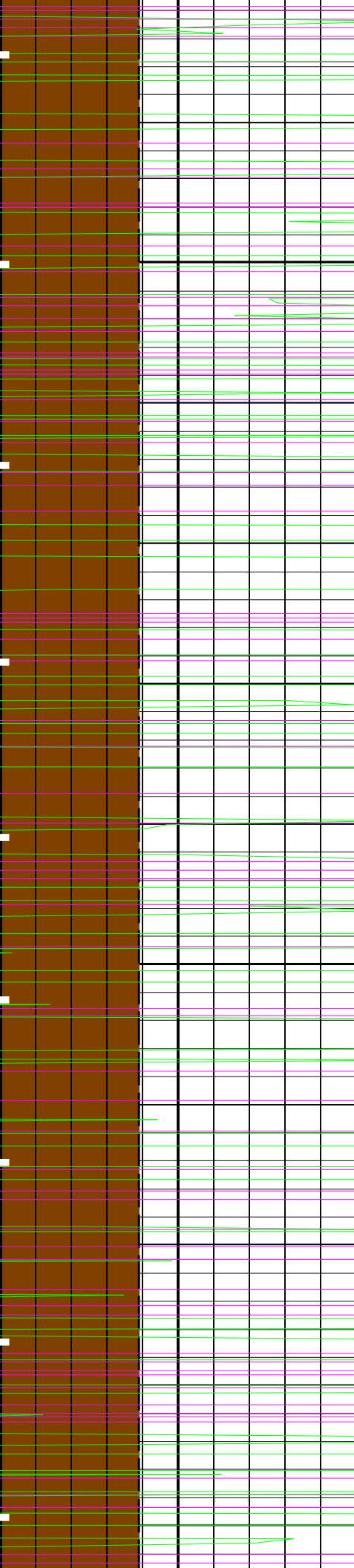
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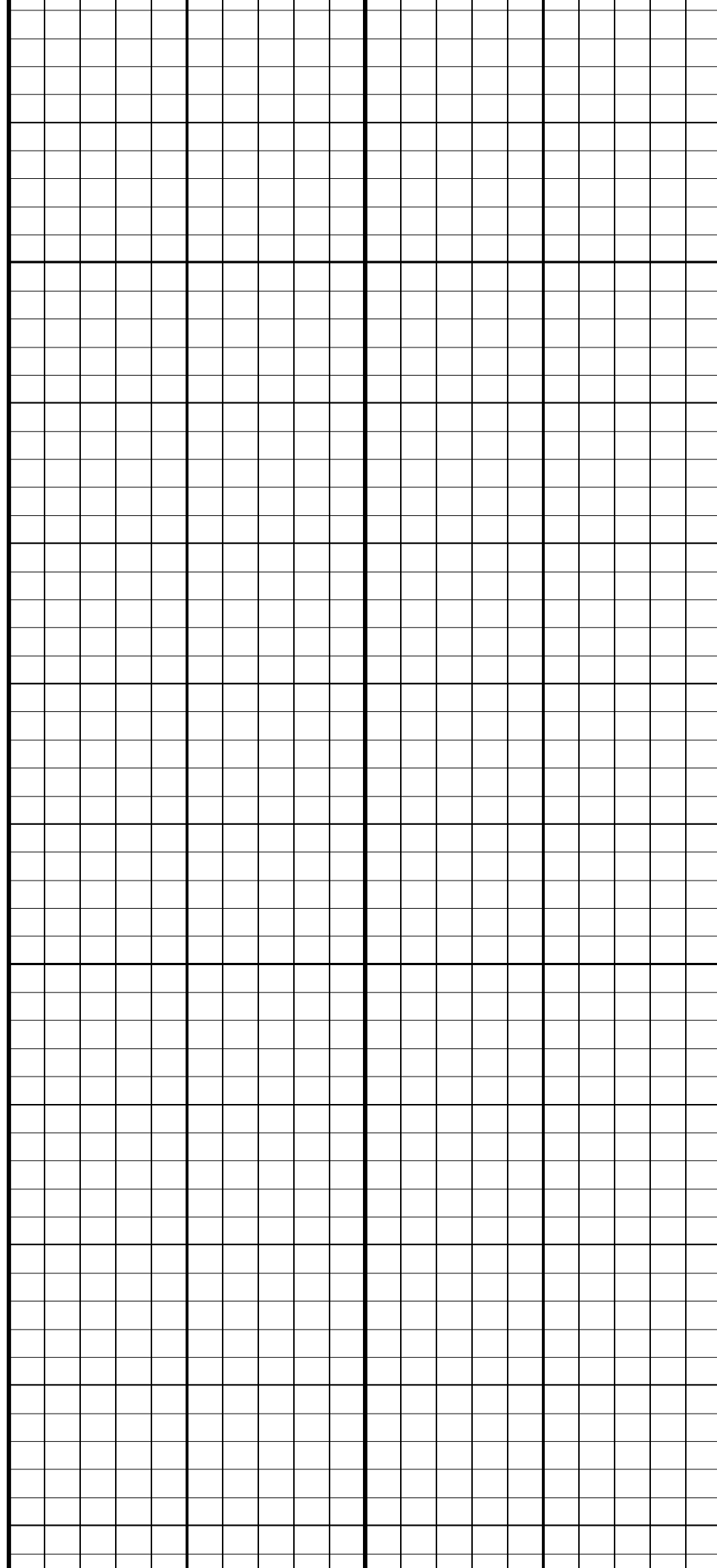




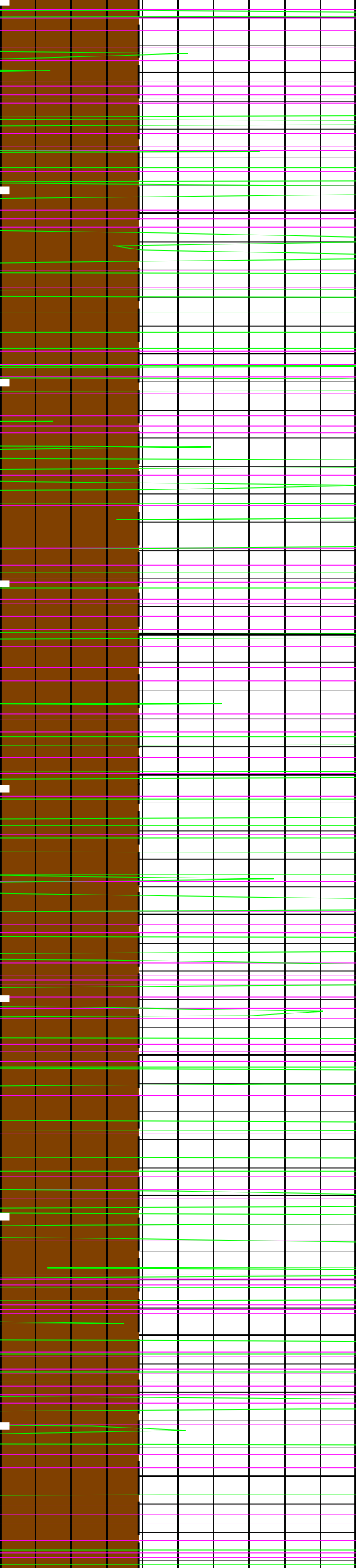


1000

1025

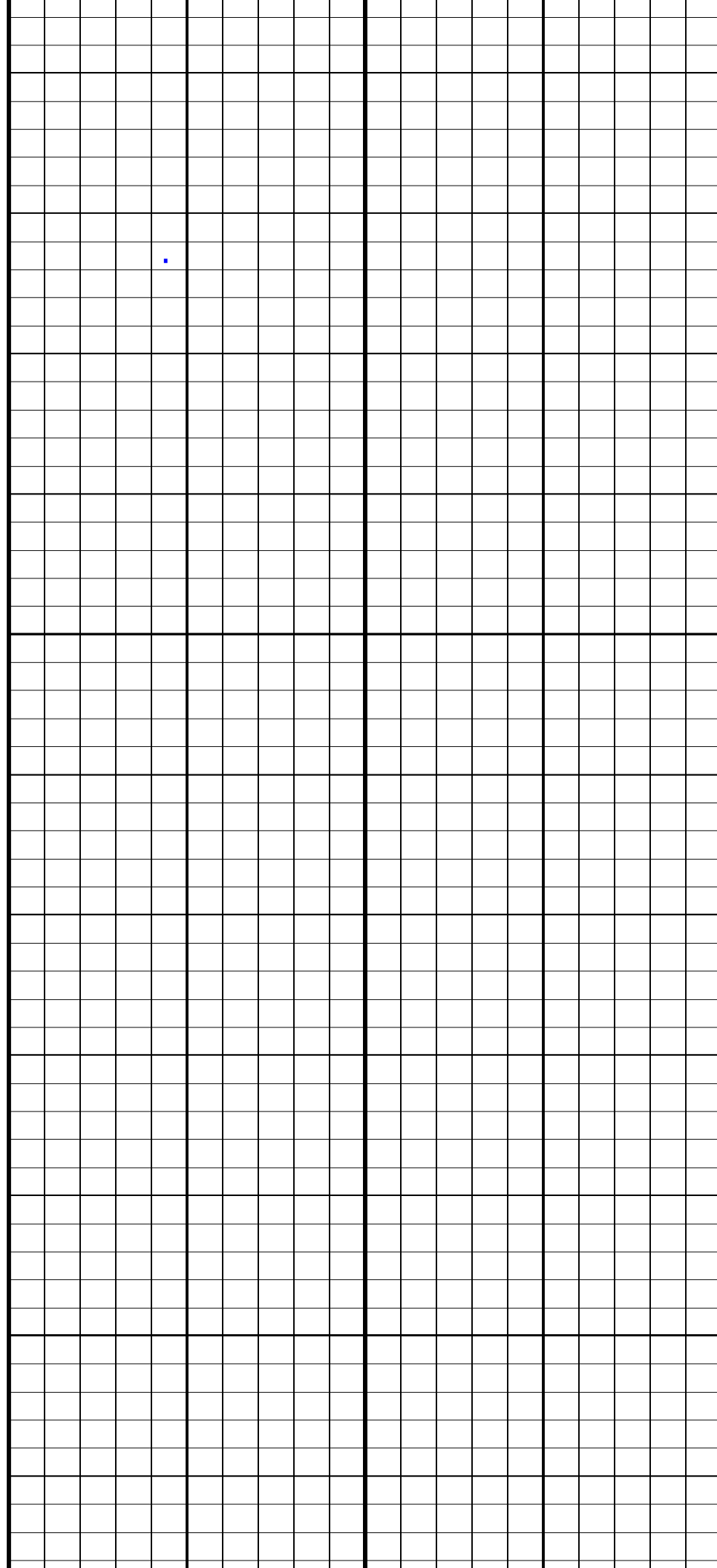


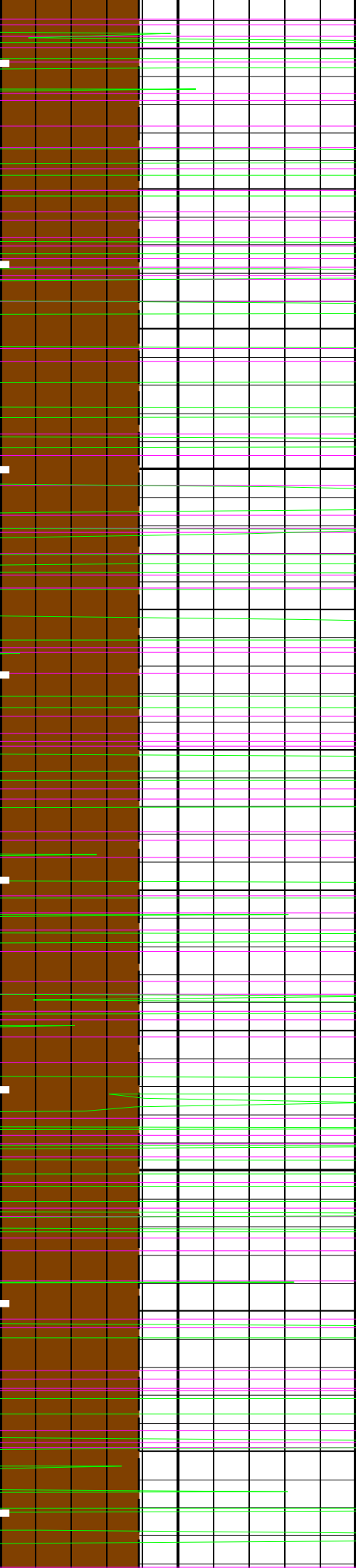




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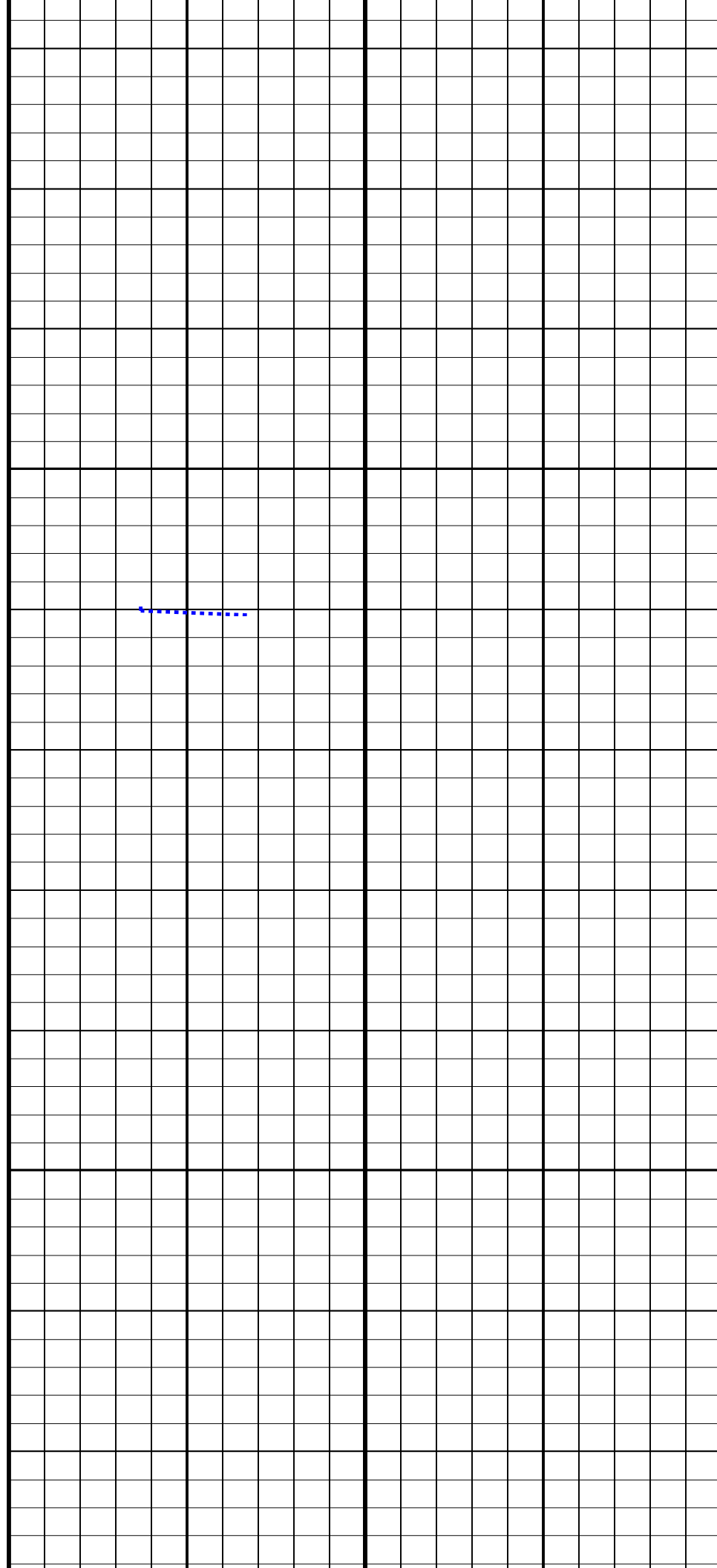
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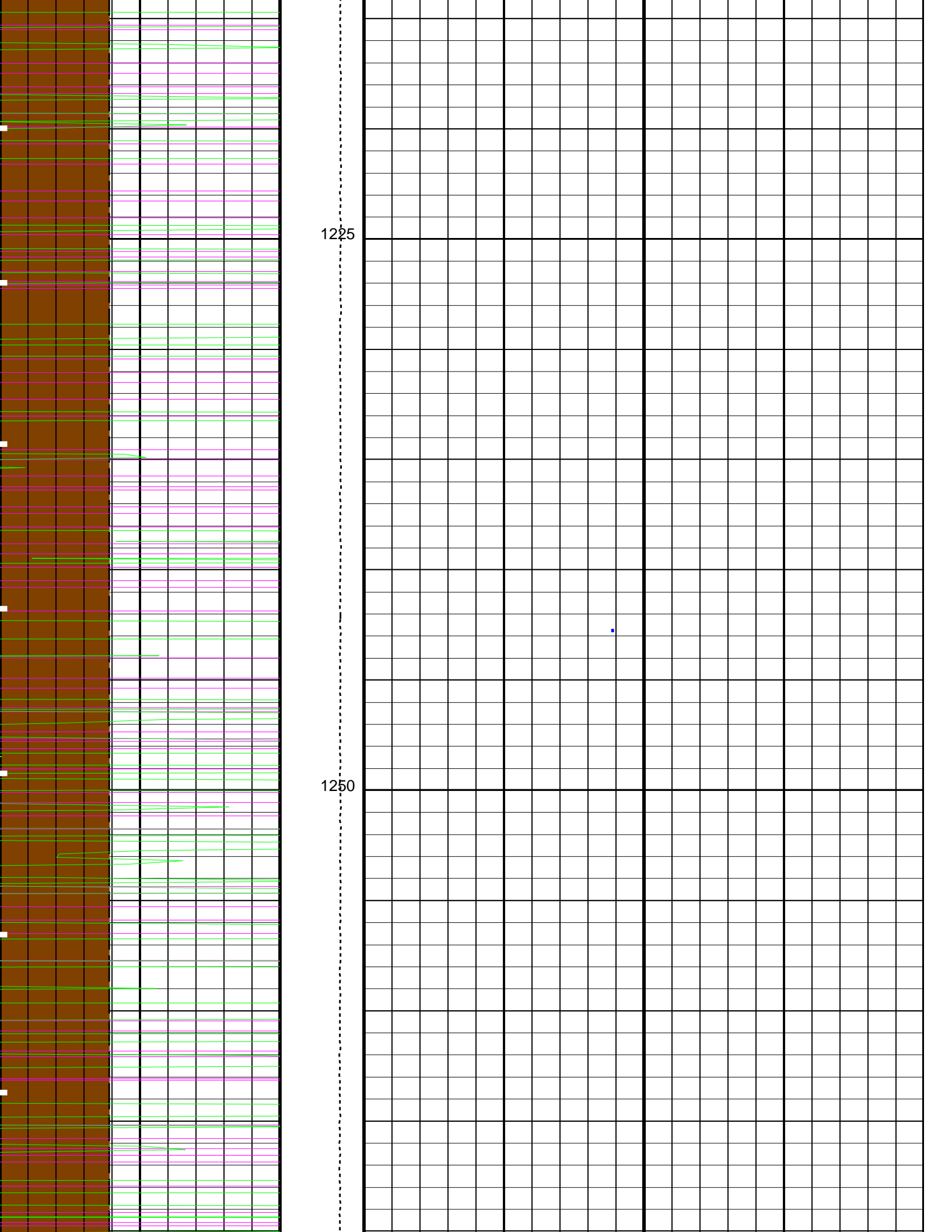


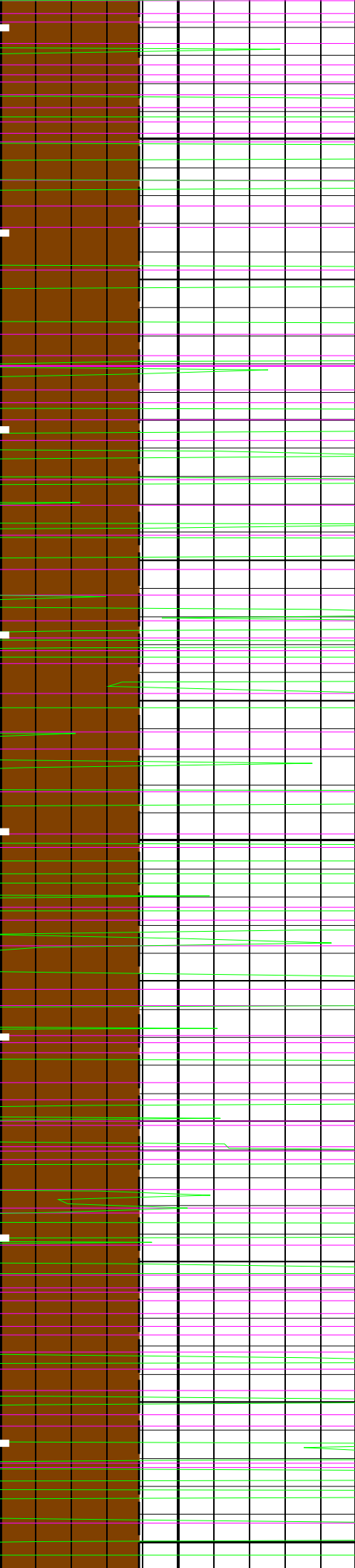


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1200



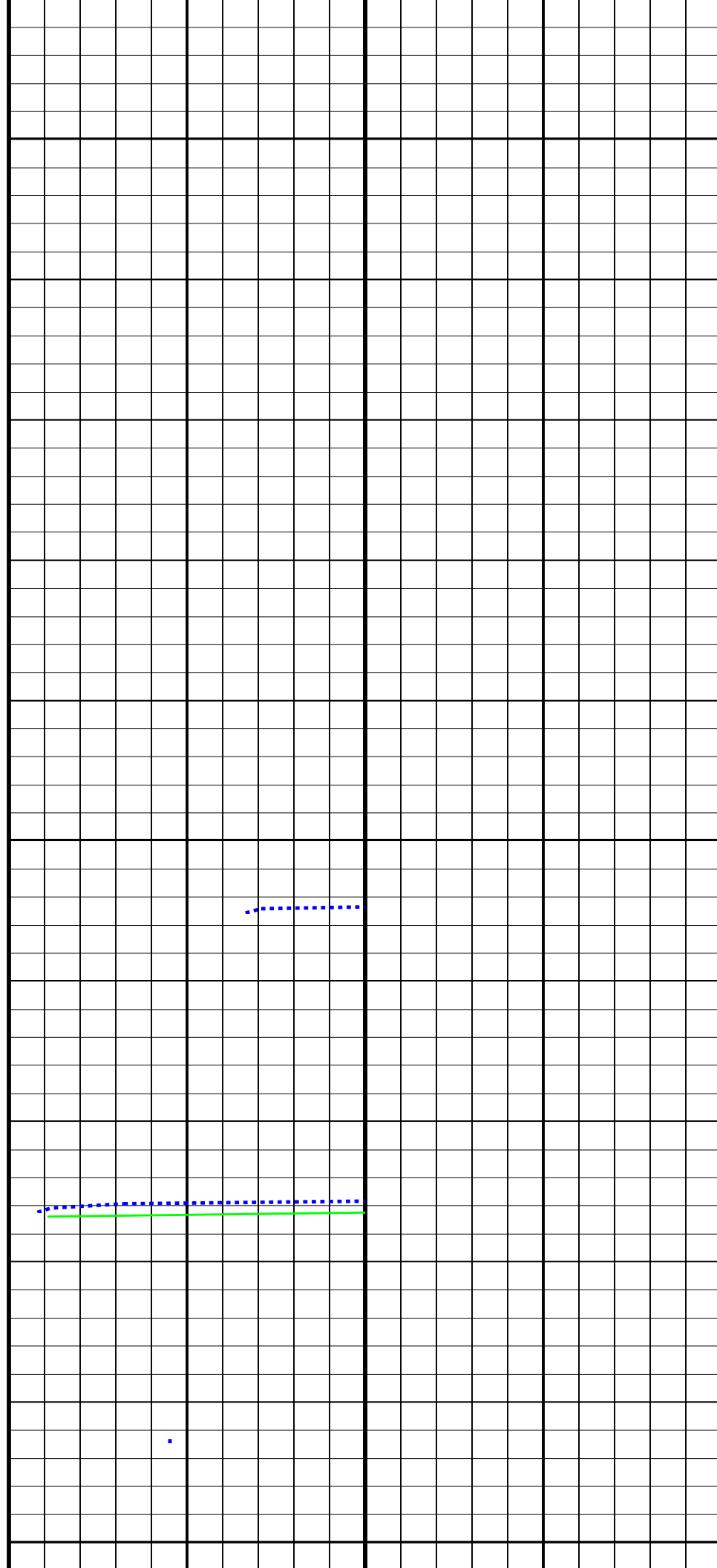


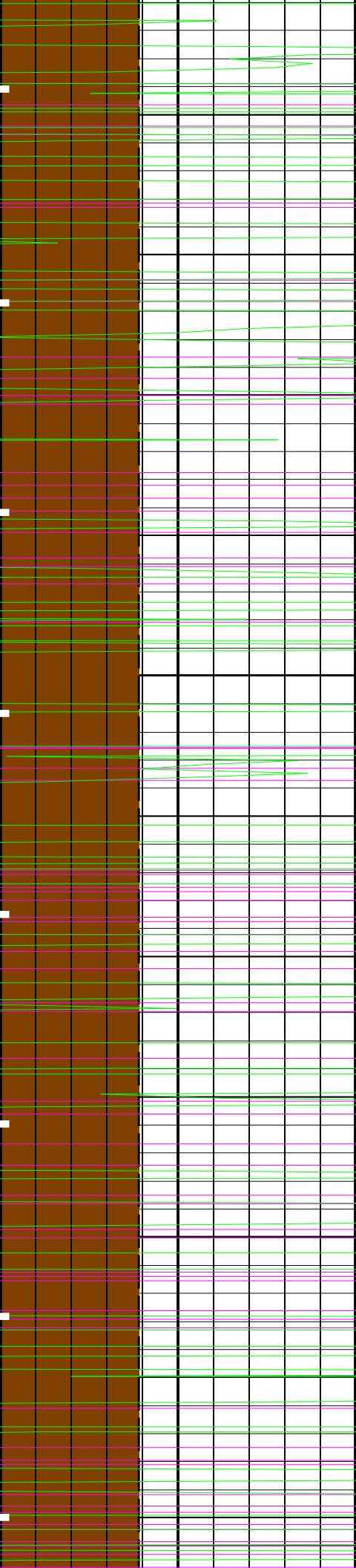


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1300

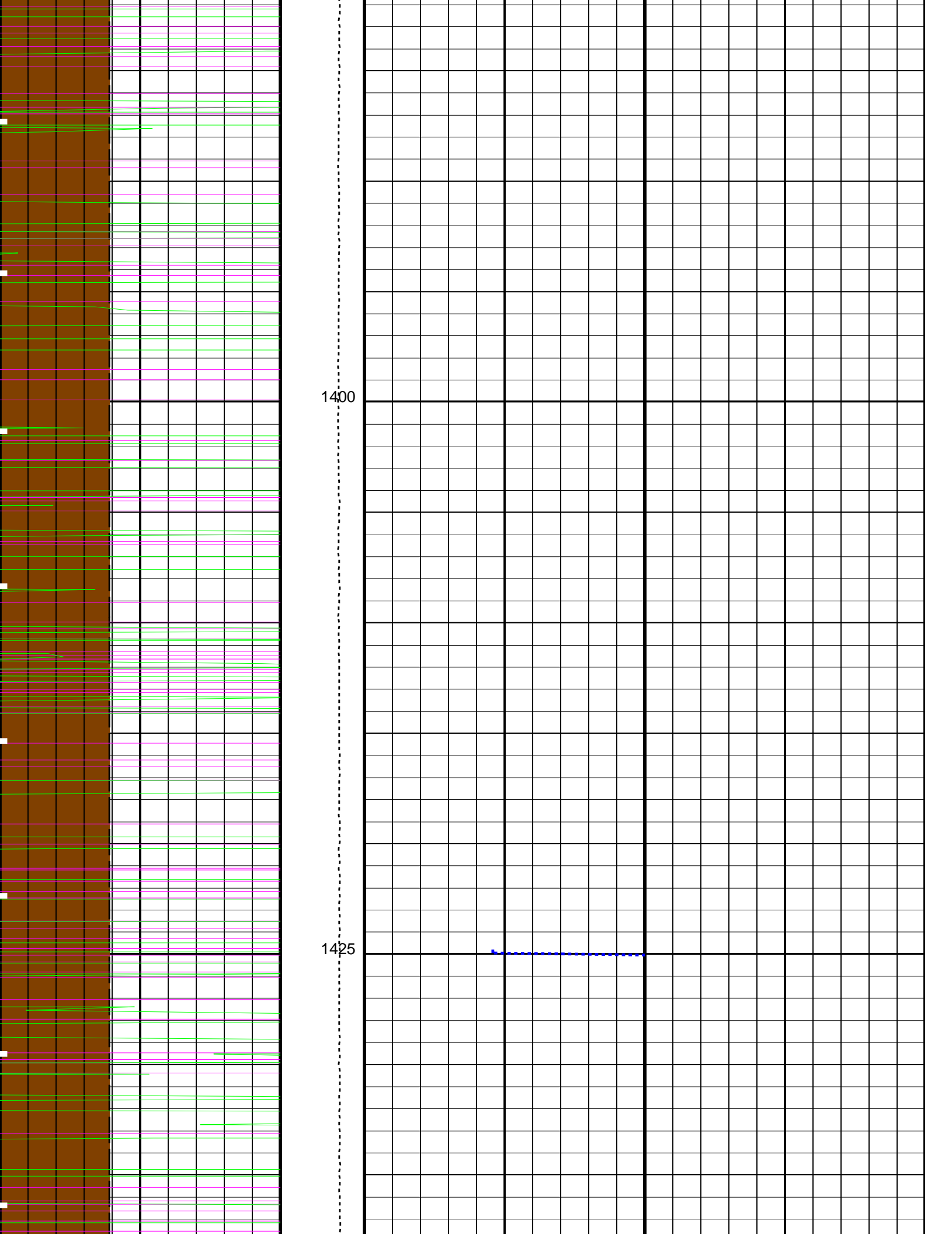
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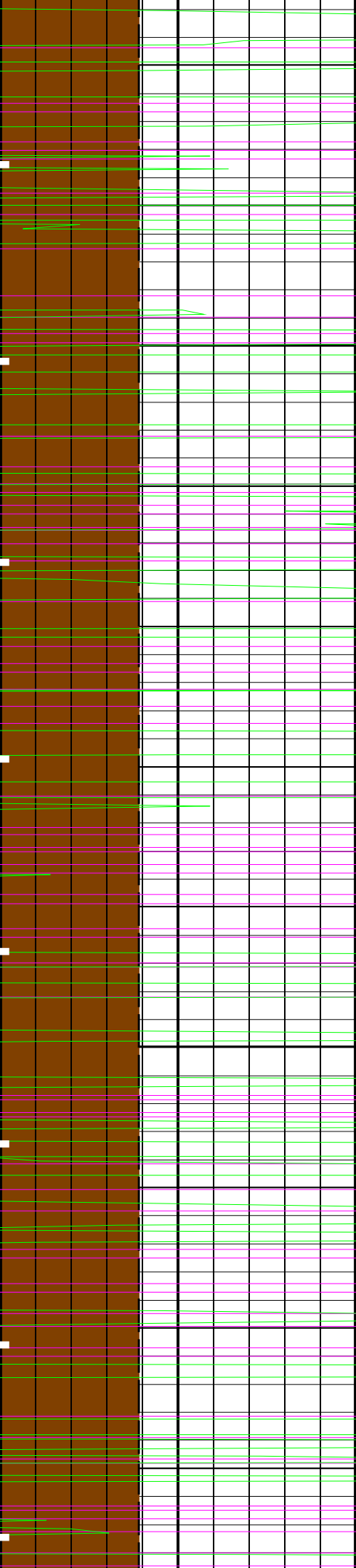




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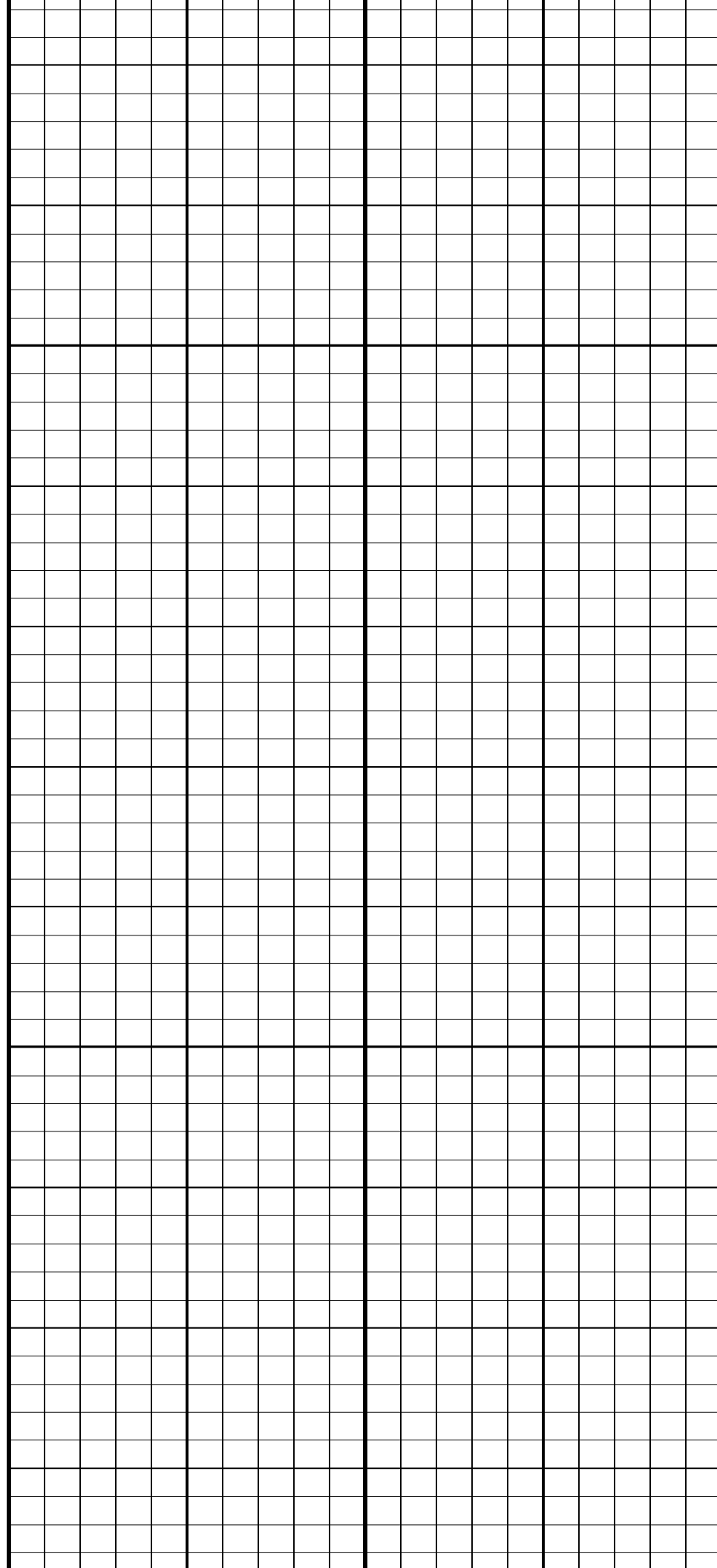
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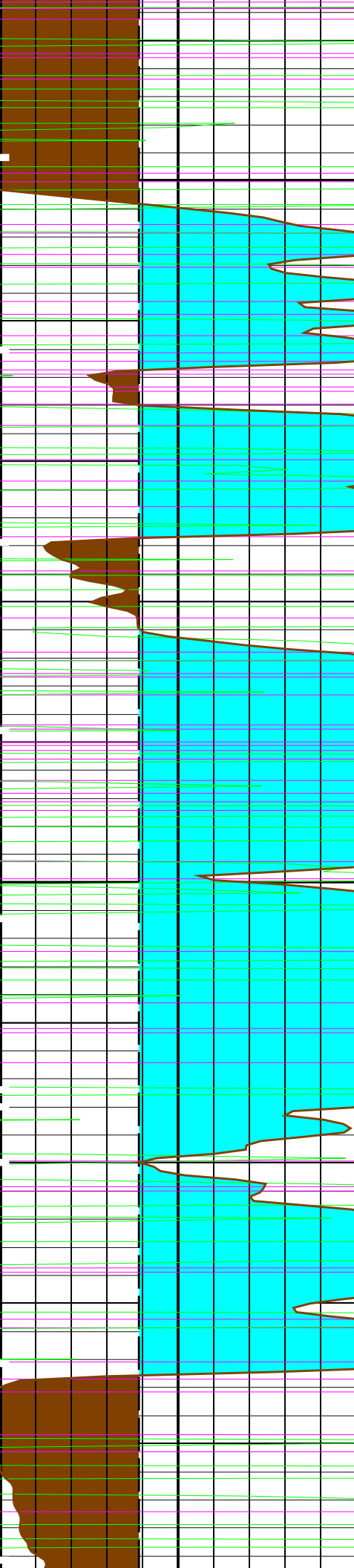




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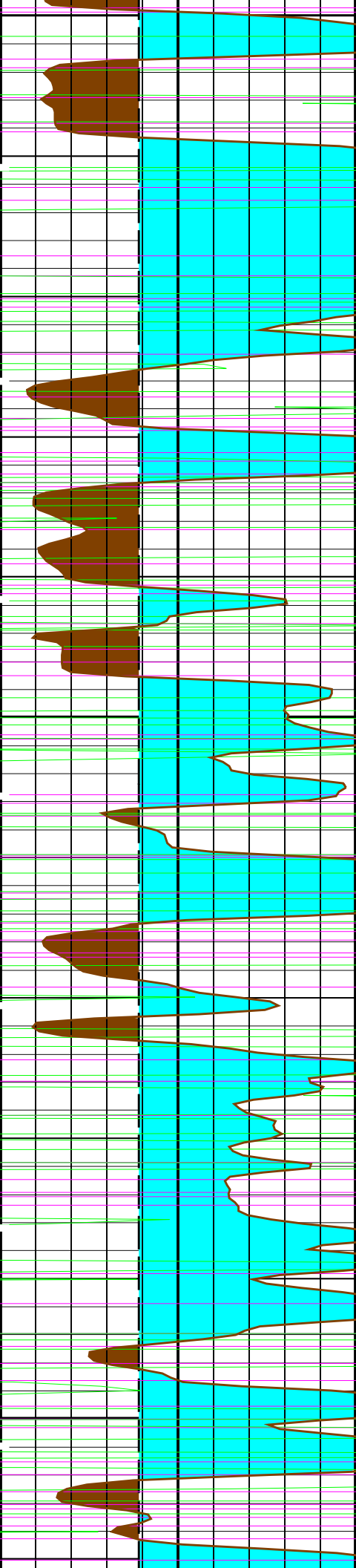
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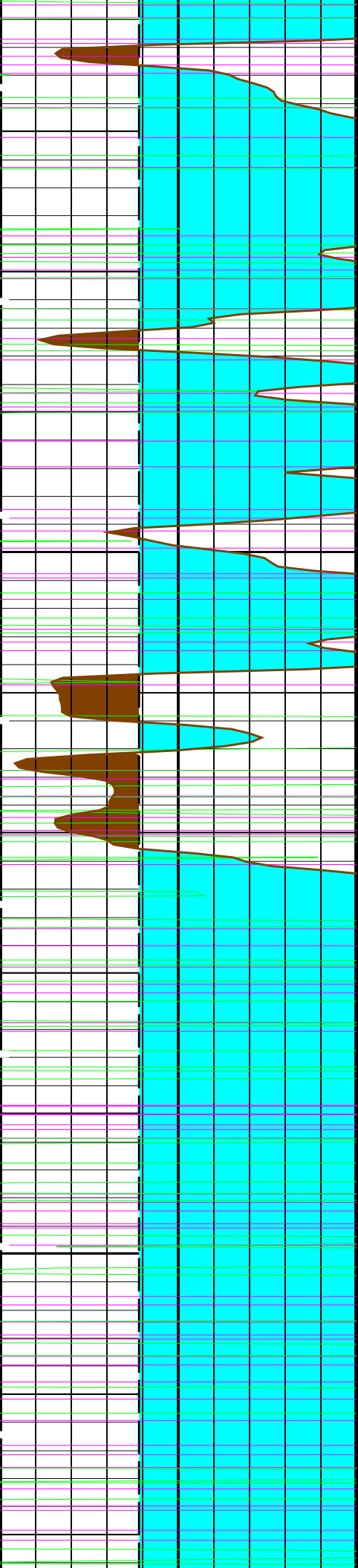
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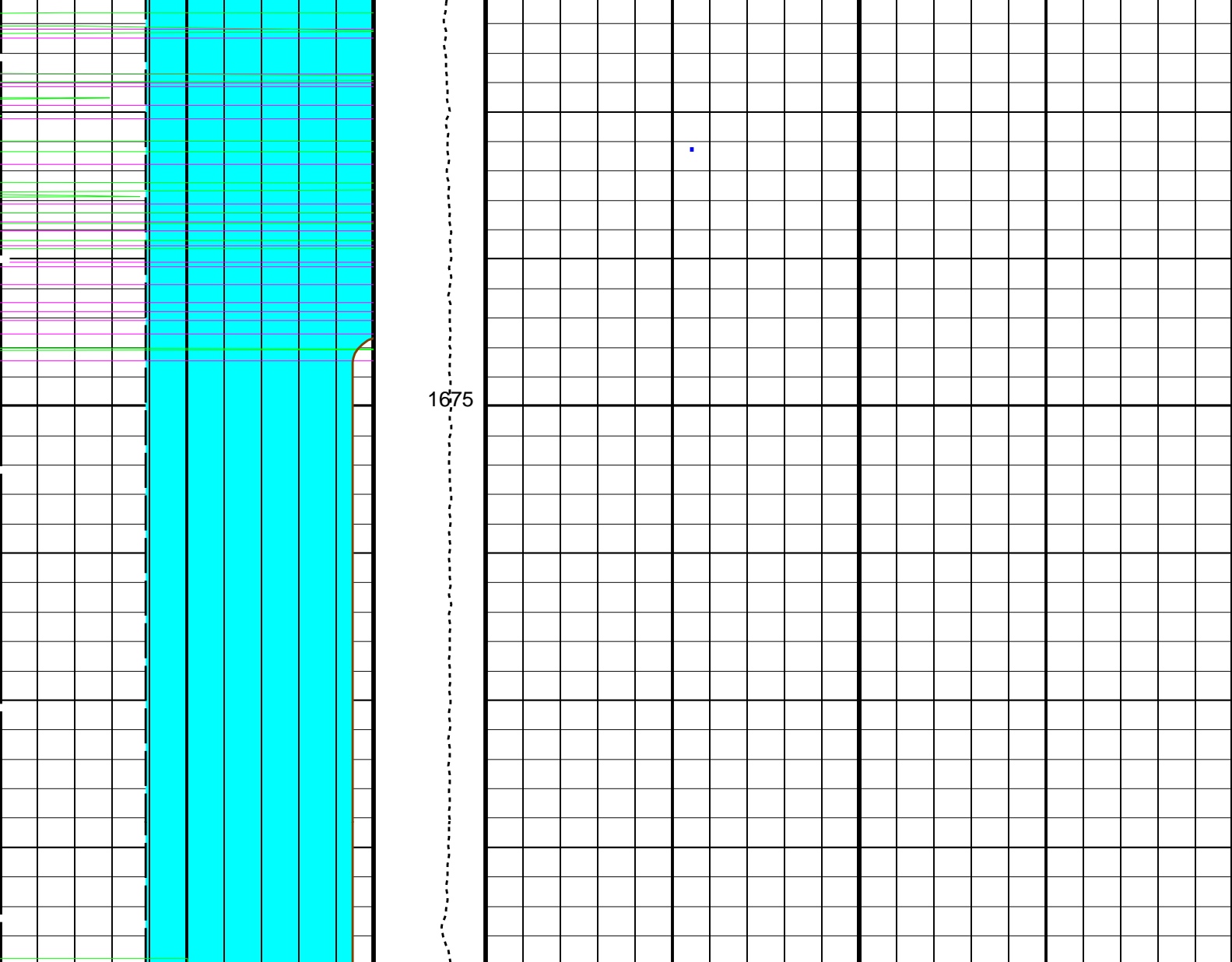
1575

1600



1625

1650



HLDS Bulk Density Correction (DRH) -0.25 (G/C3) 0.25			Tension (TENS) (LBF) 10000 0	HLDS Bulk Density (RHOM) 2 (G/C3) 3		
Bit Size (BS) 6 (IN) 16				HLDS SS2 Density (RHS3) 2 (G/C3) 3		HLDS Density Porosity (DPO) 30 (PU) 0
HLDS Caliper (LCAL) 6 (IN) 16				HLDS Long Spaced Bulk Density (RHL) 2 (G/C3) 3		
Mudcake From HLDS_CALIPER to BS				HLDS Short Spaced Photoelectric Effect (PEFS) 0 (----) 10		
Washout From BS to HLDS_CALIPER				HLDS Long Spaced Photoelectric Effect (PEFL) 0 (----) 10		
HLDS Short Spacing Quality Indicator (LQSS) -0.25 (----) 0.25				HLDS Short Spaced Bulk Density (RHS) 2 (G/C3) 3		
HLDS Long Spacing Quality Indicator (LQLS) -0.25 (----) 0.25						

PIP SUMMARY

Parameters

DLIS Name	Description	Value	
	HLDS: Hostile Litho-Density Sonde		
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	OFF	
MDEN	Matrix Density	2.6	G/C3
	EDTC-B: Enhanced DTS Cartridge		
DPPM	Density Porosity Processing Mode	HIRS	
	System and Miscellaneous		
BS	Bit Size	9.875	IN

Format: HLDSDensityPE Vertical Scale: 1:200 Graphics File Created: 30-Jan-2024 01:34

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_014LUP FN:12 PRODUCER 30-Jan-2024 01:34

Company: International Ocean Discovery Program

Well: Expedition 401, Site U1611A

Output DLIS Files

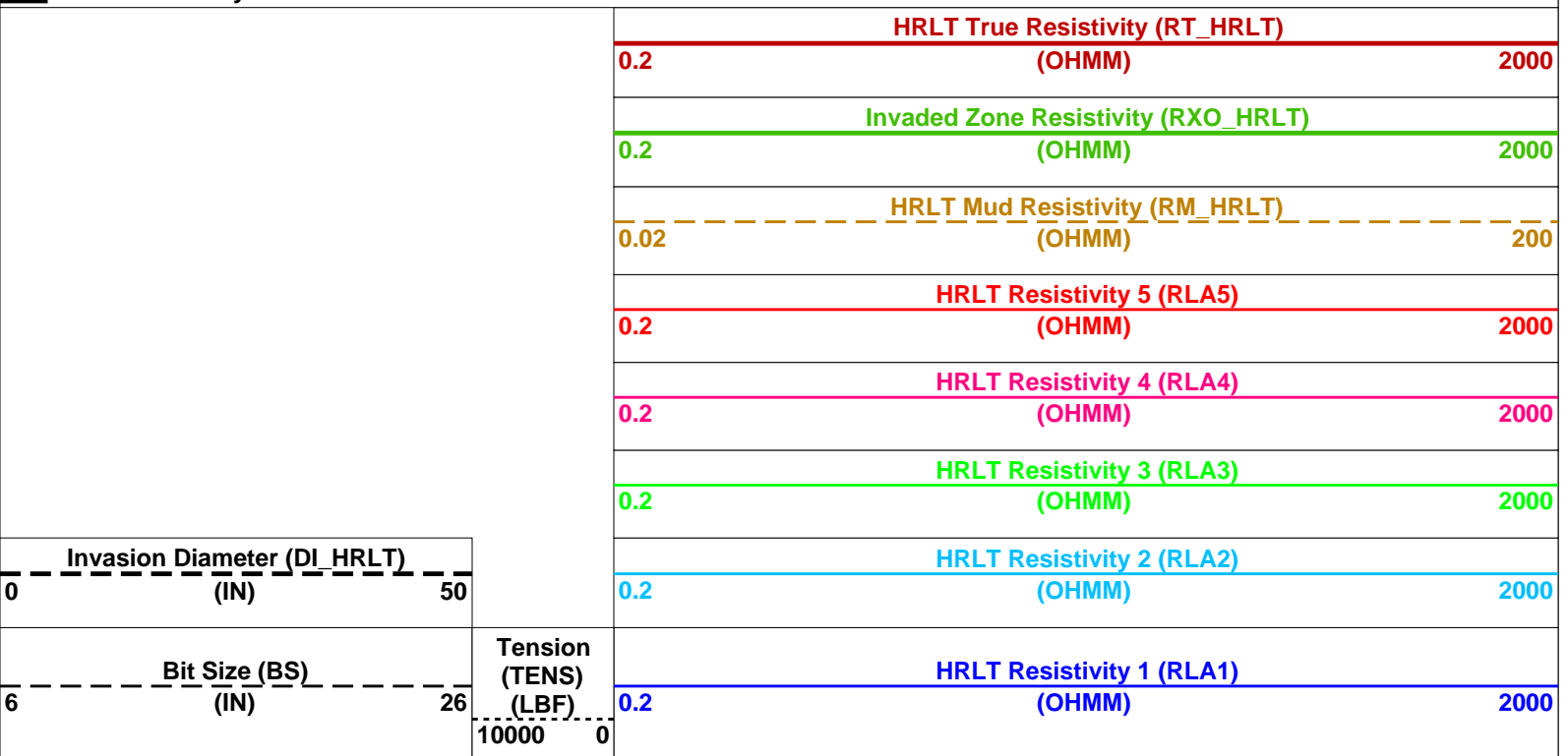
DEFAULT	MSS_LDEO_HRLA_LDL_014LUP	FN:12	PRODUCER	30-Jan-2024 01:34	1693.9 M	811.5 M
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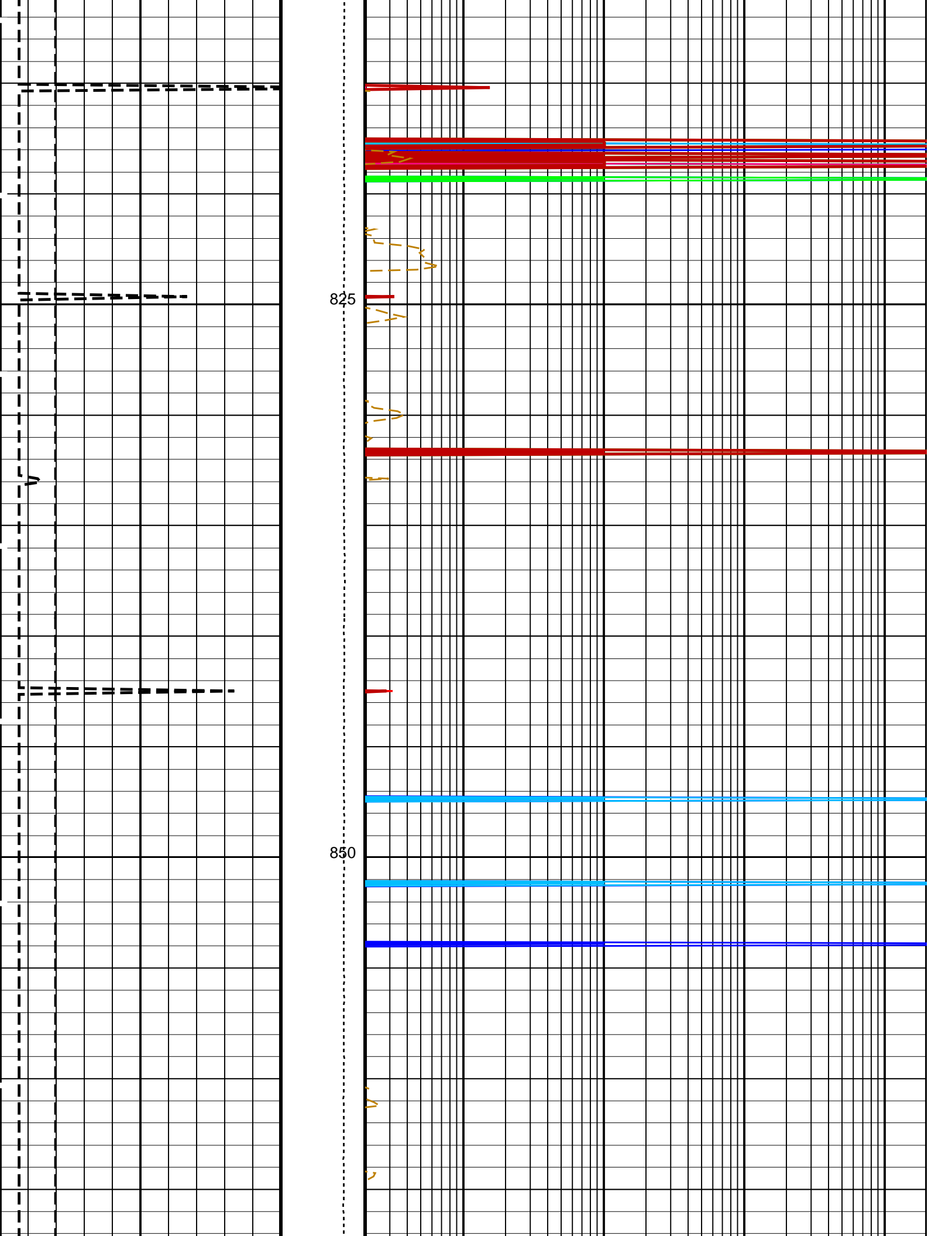
OP System Version: 19C0-187

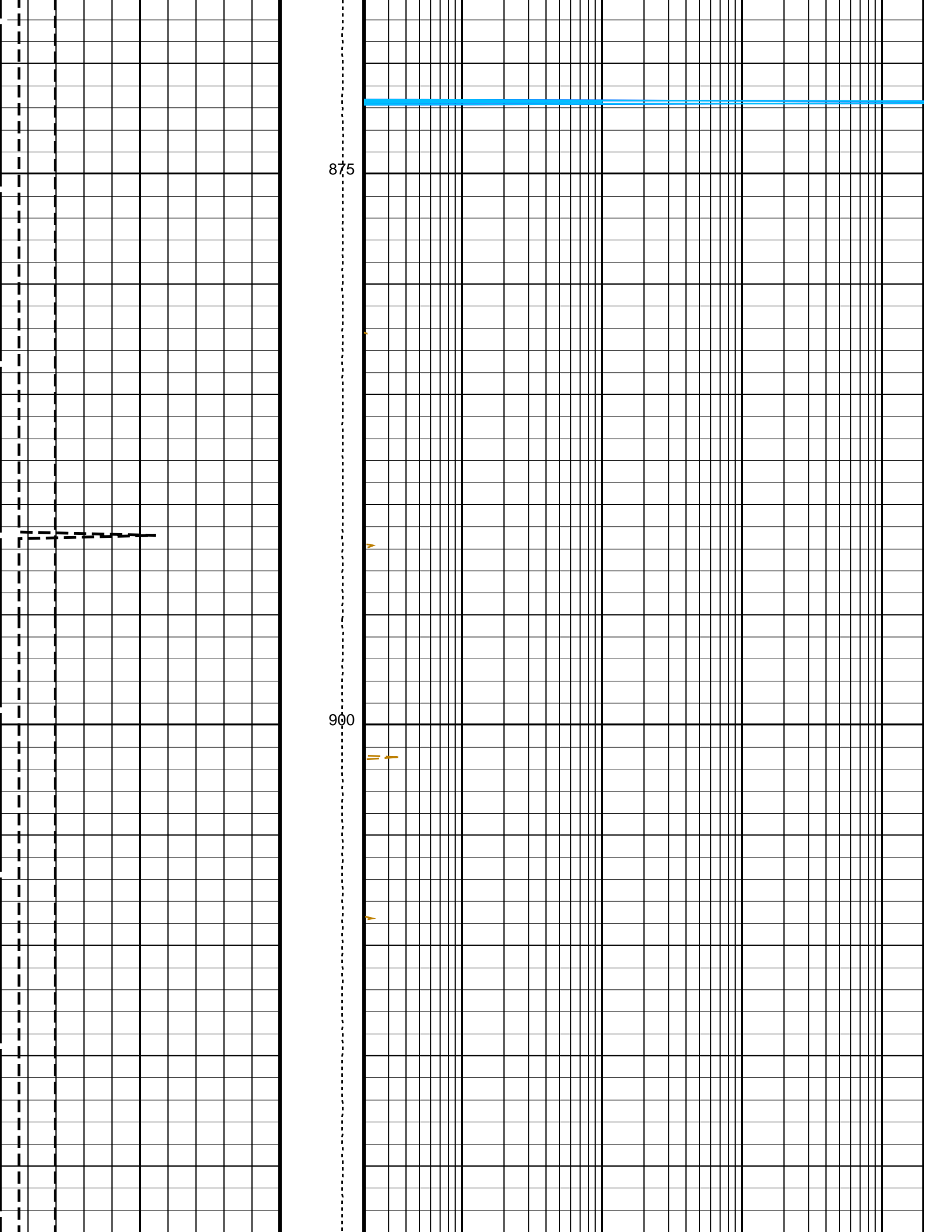
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

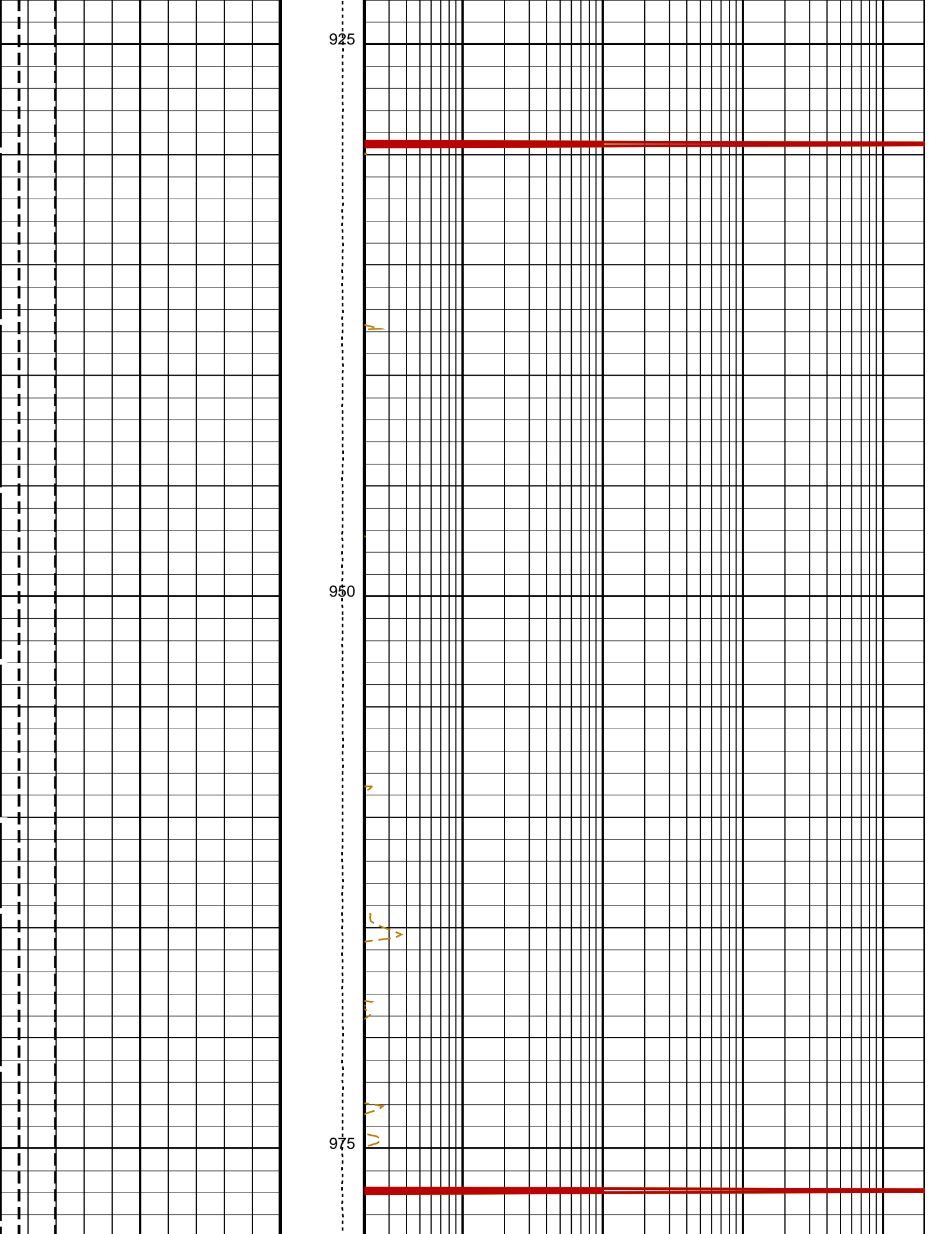
PIP SUMMARY

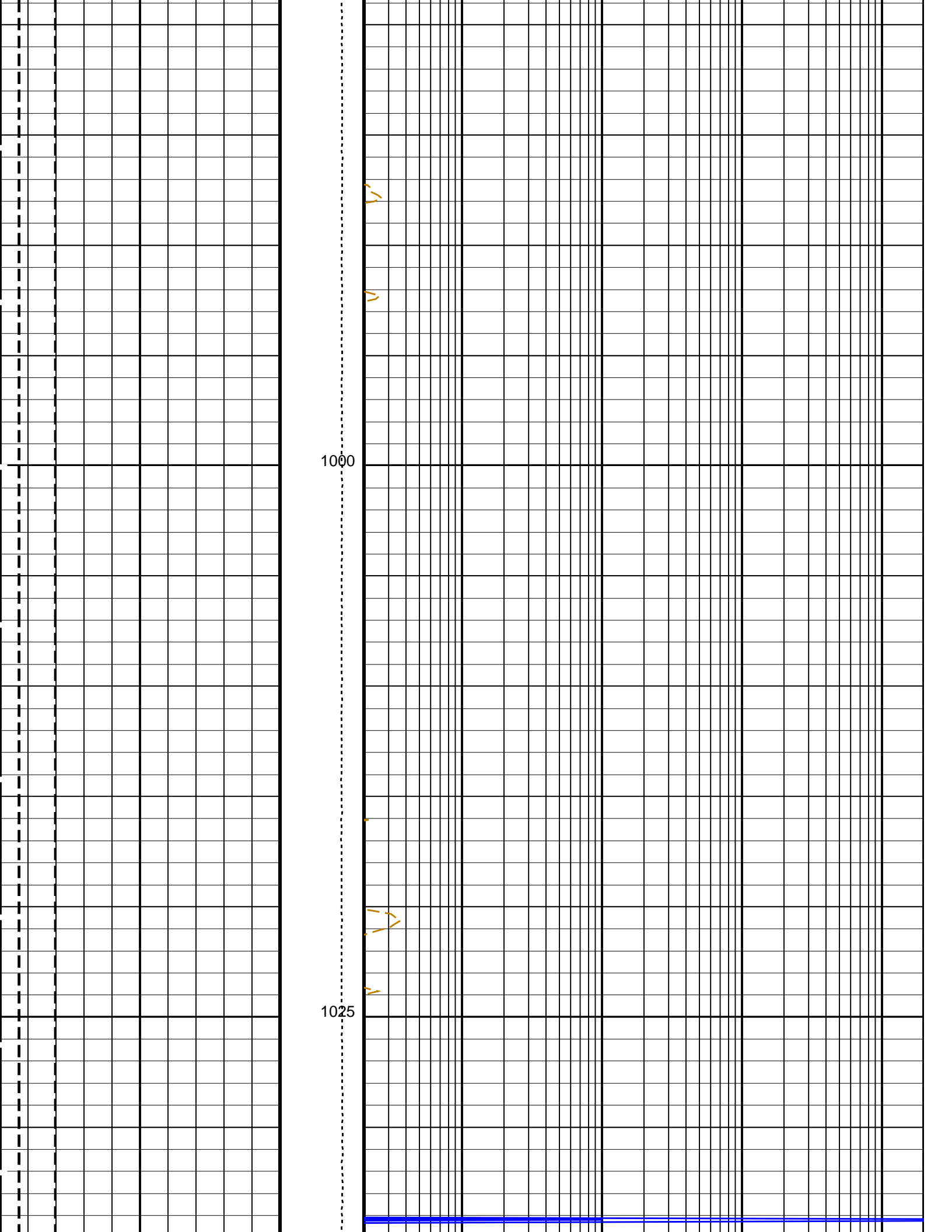
Time Mark Every 60 S

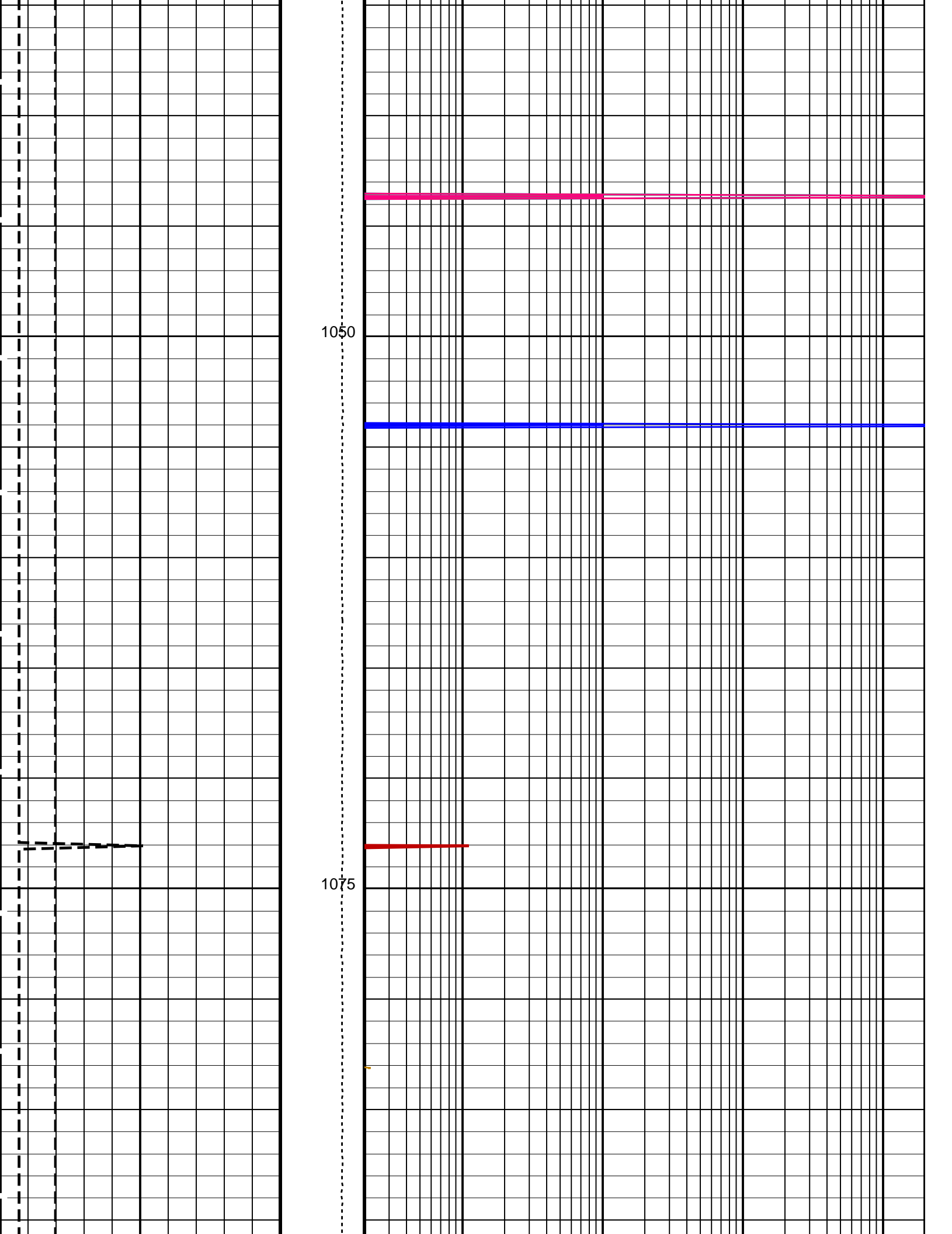


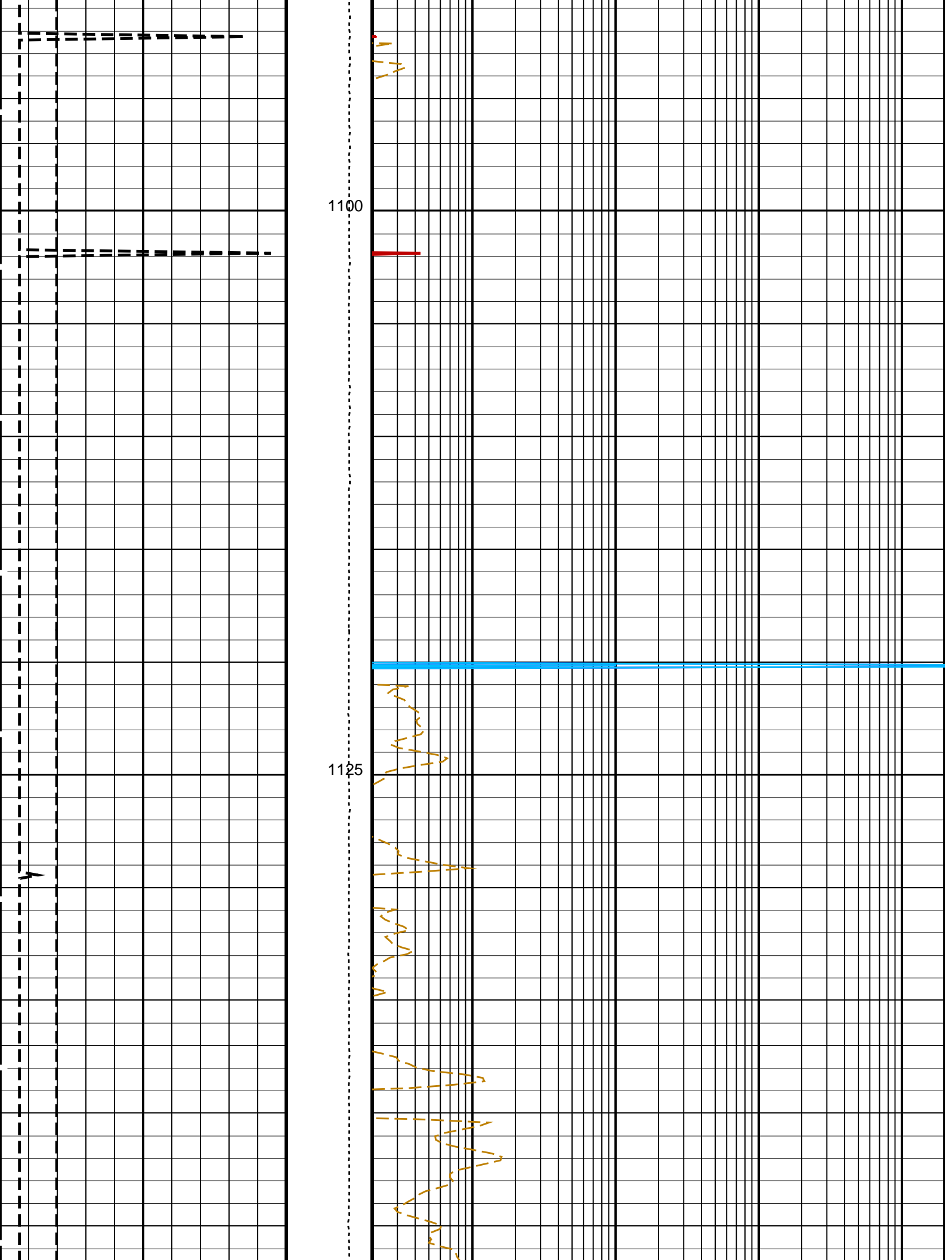


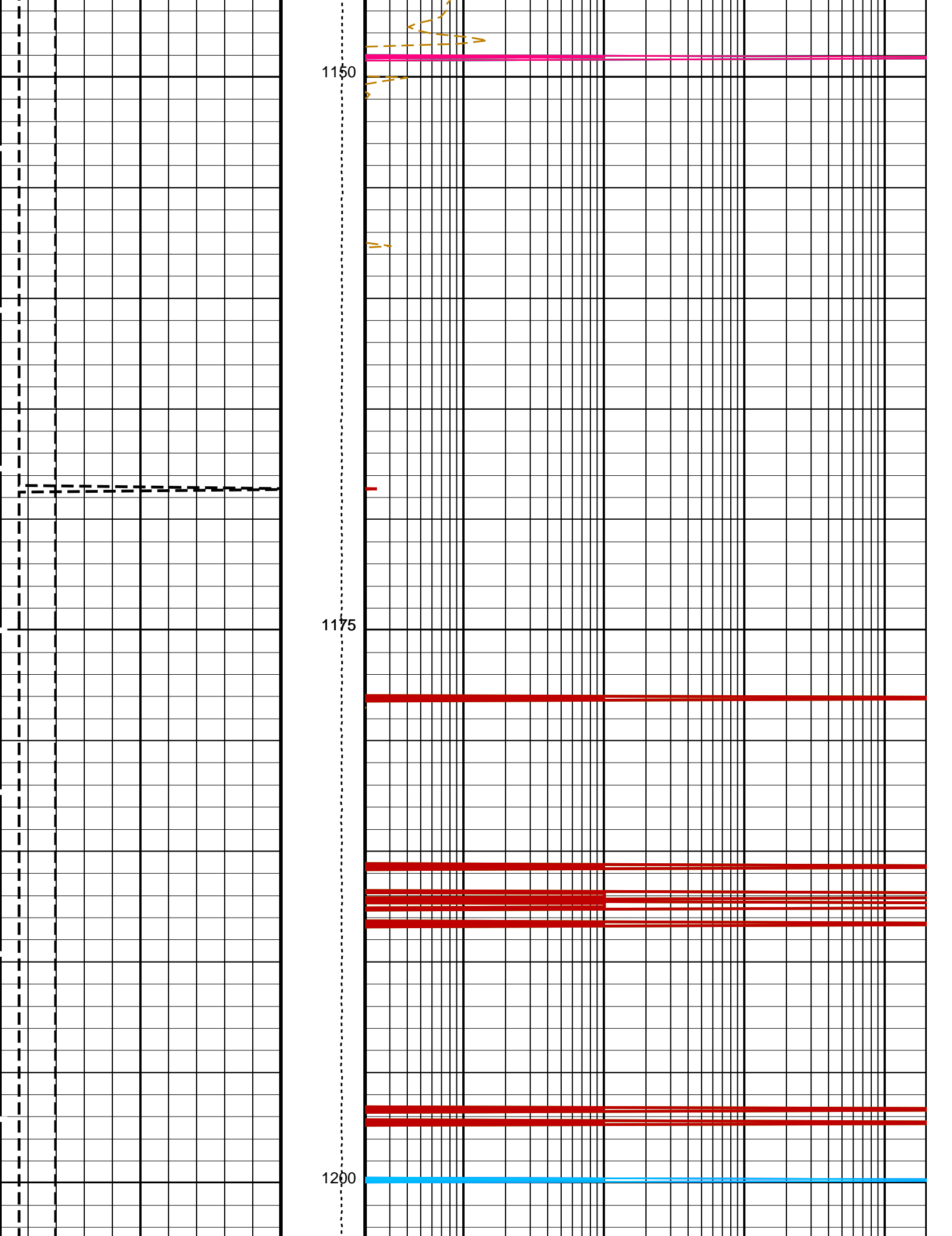


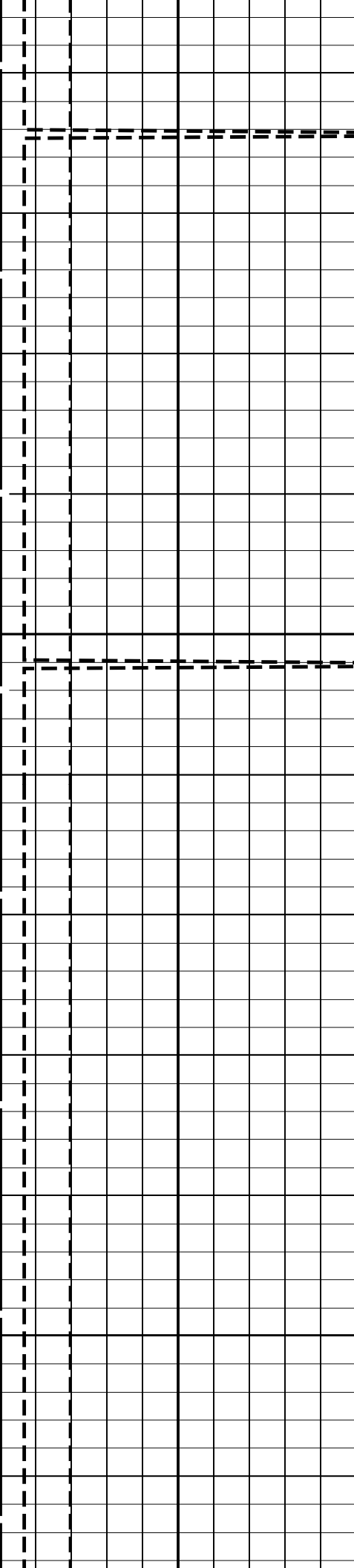






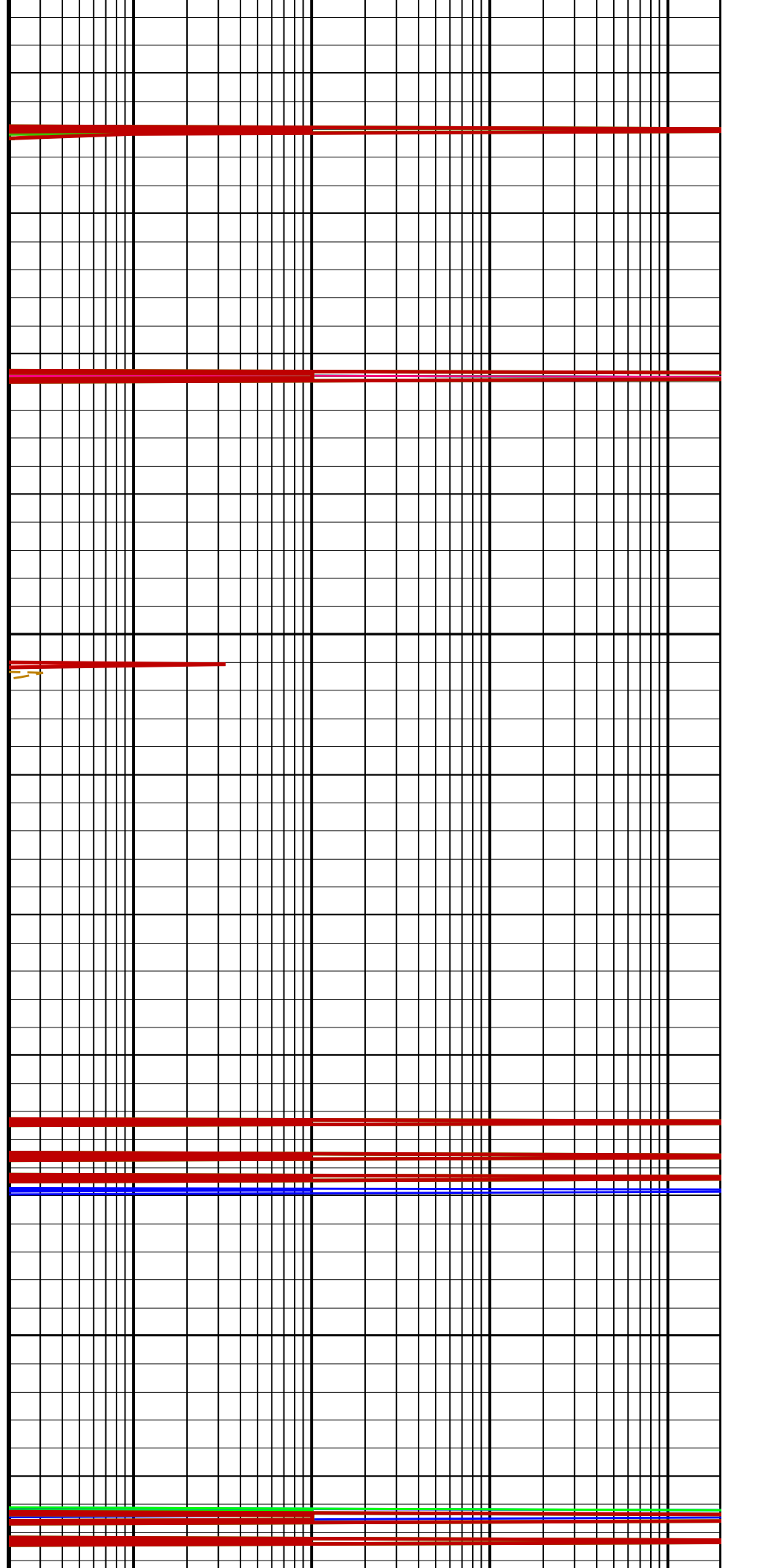


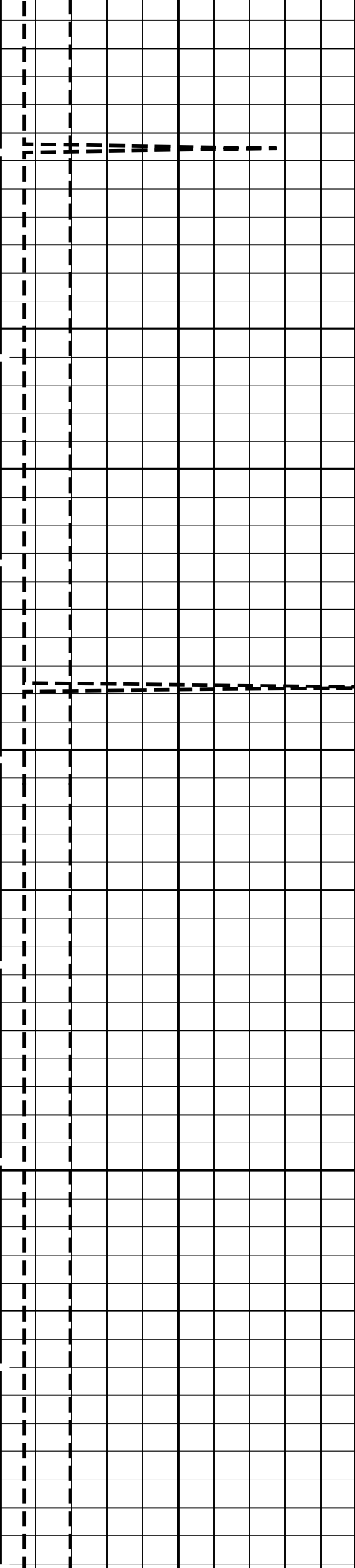




1225

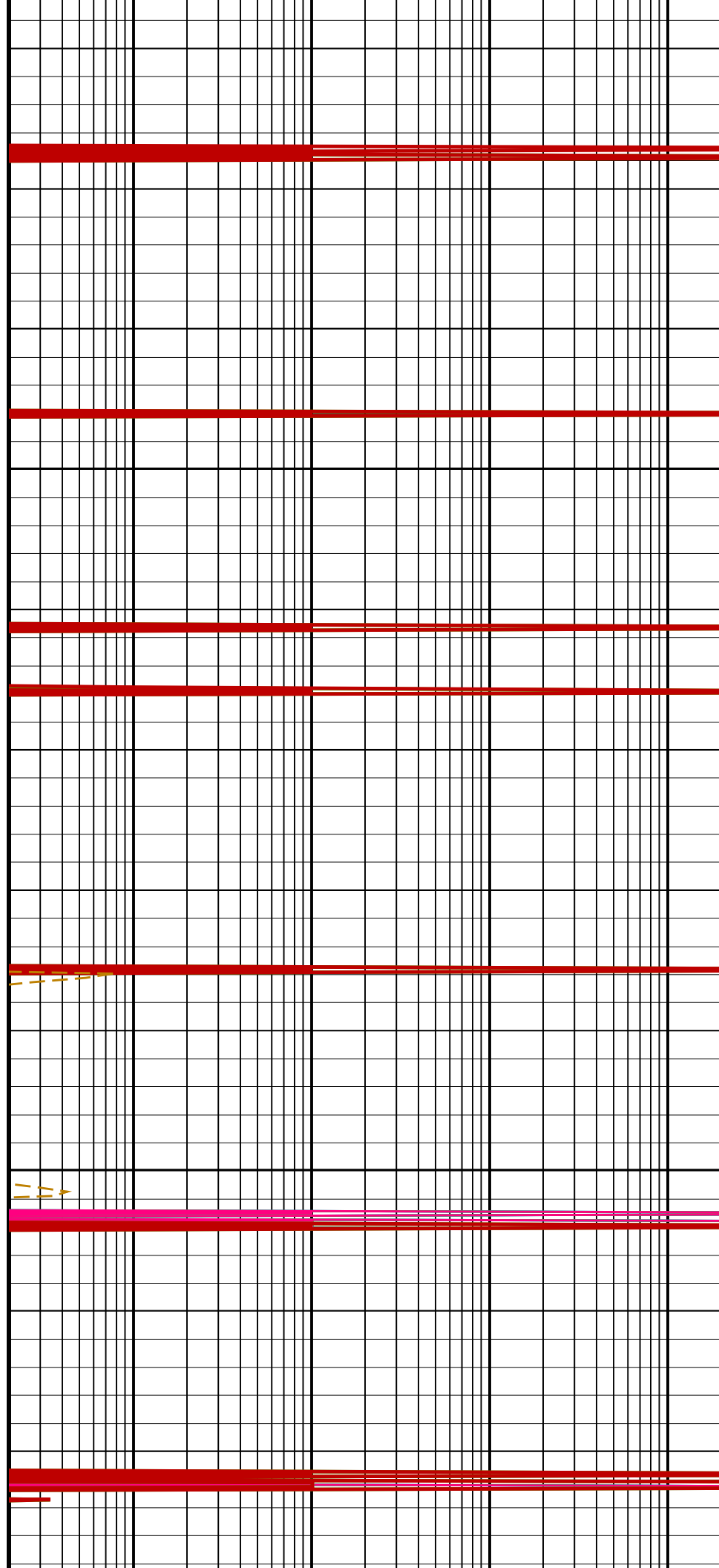
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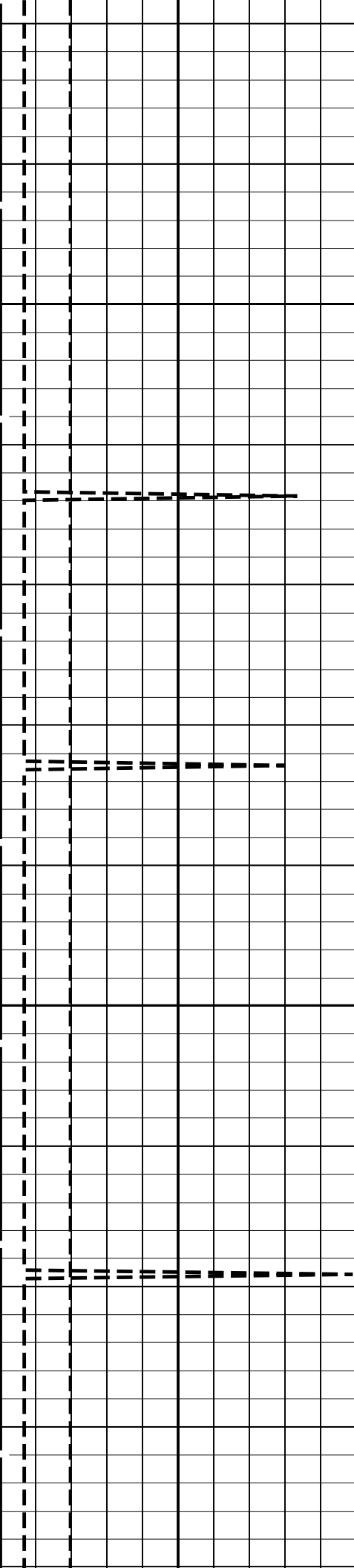




1275

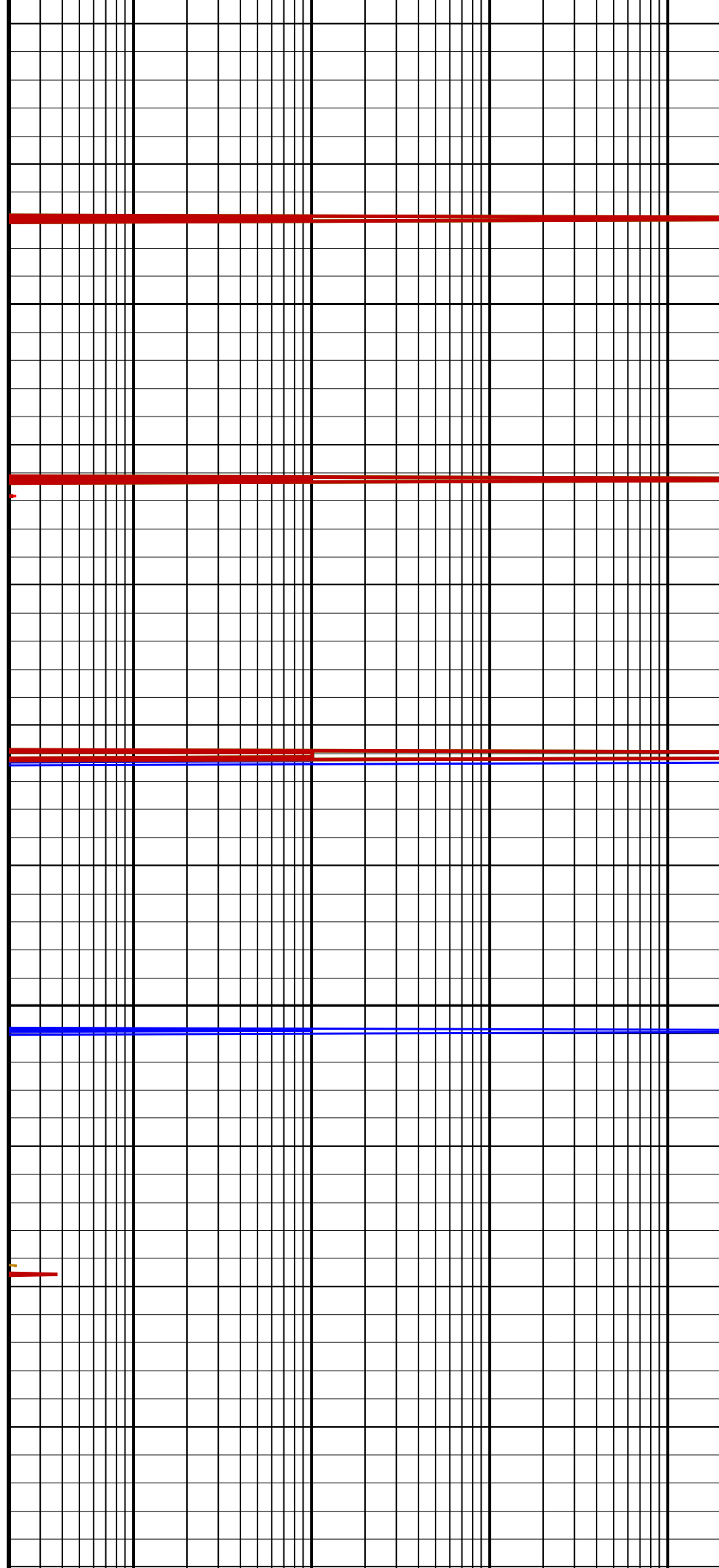
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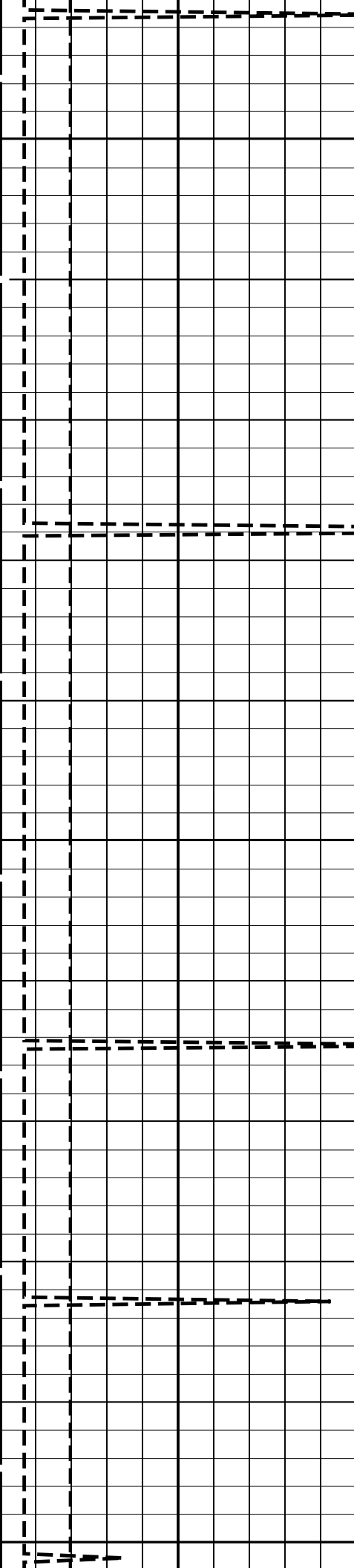




1325

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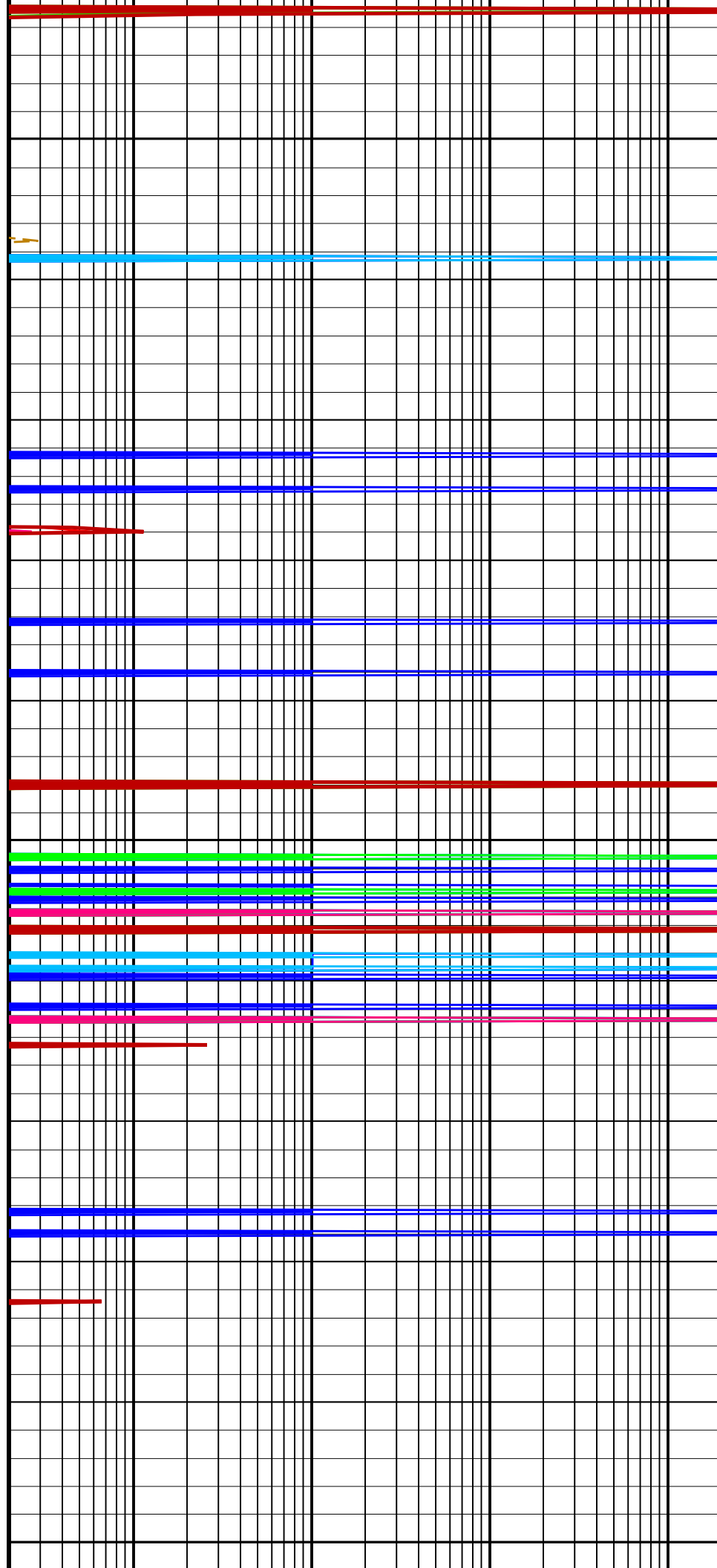


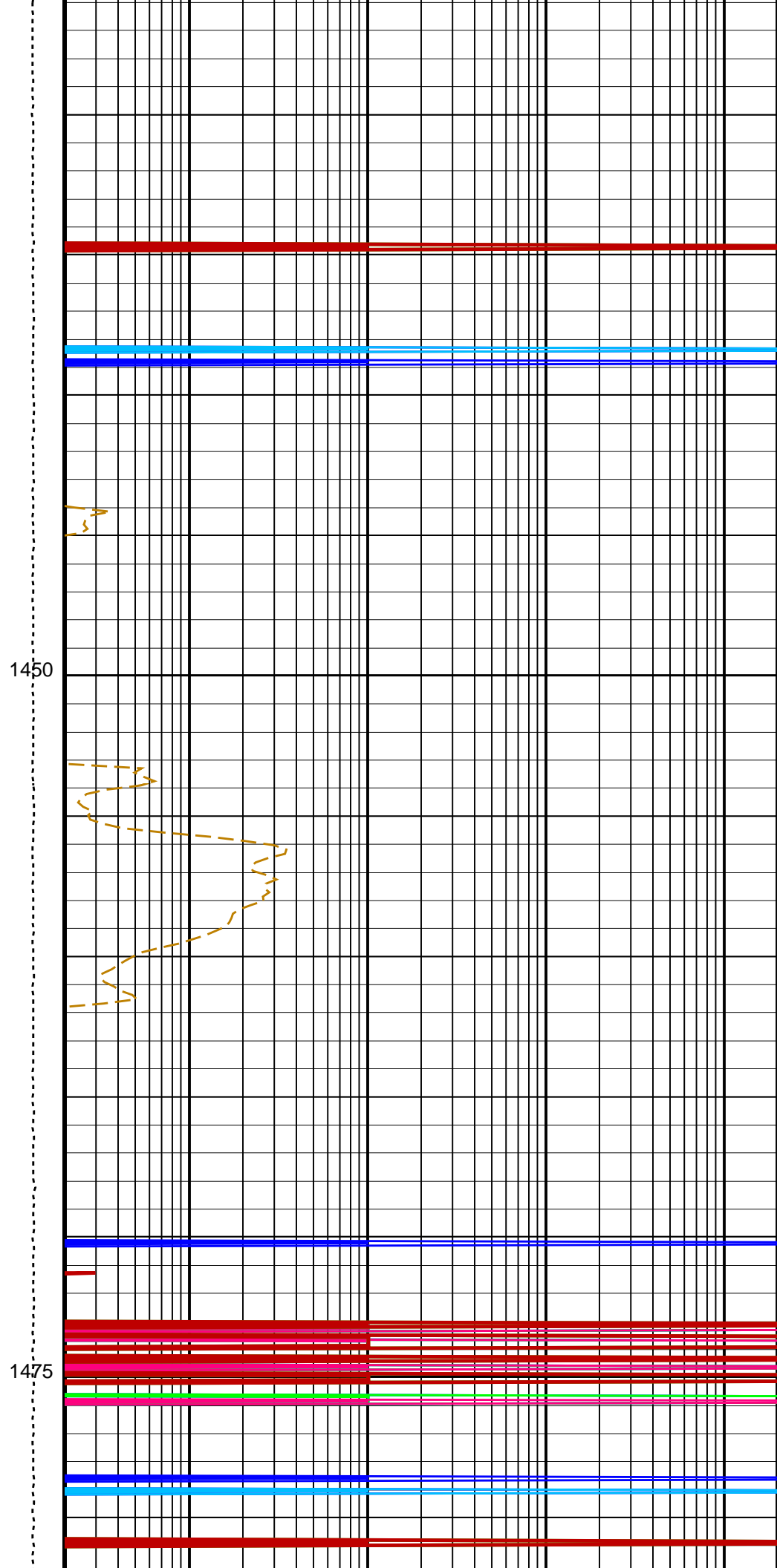
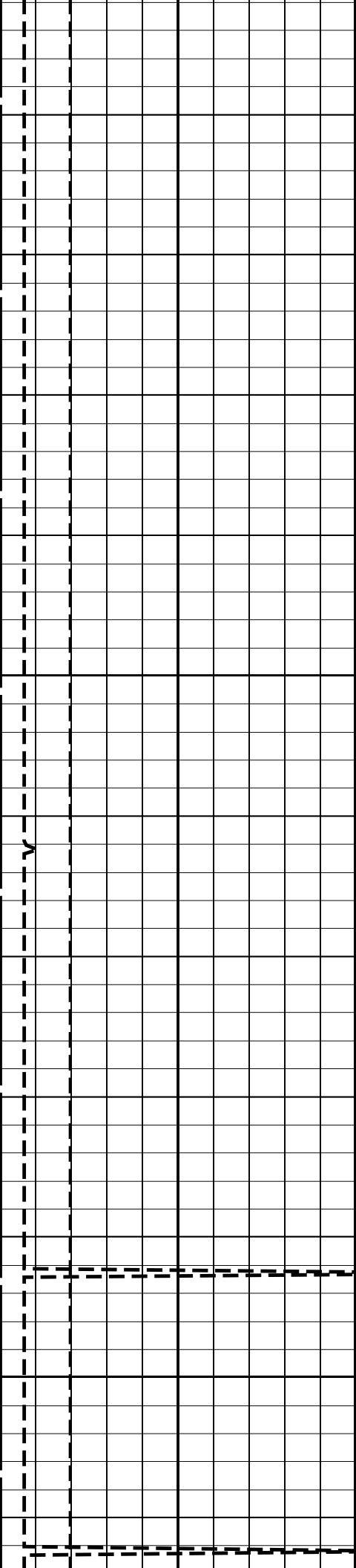


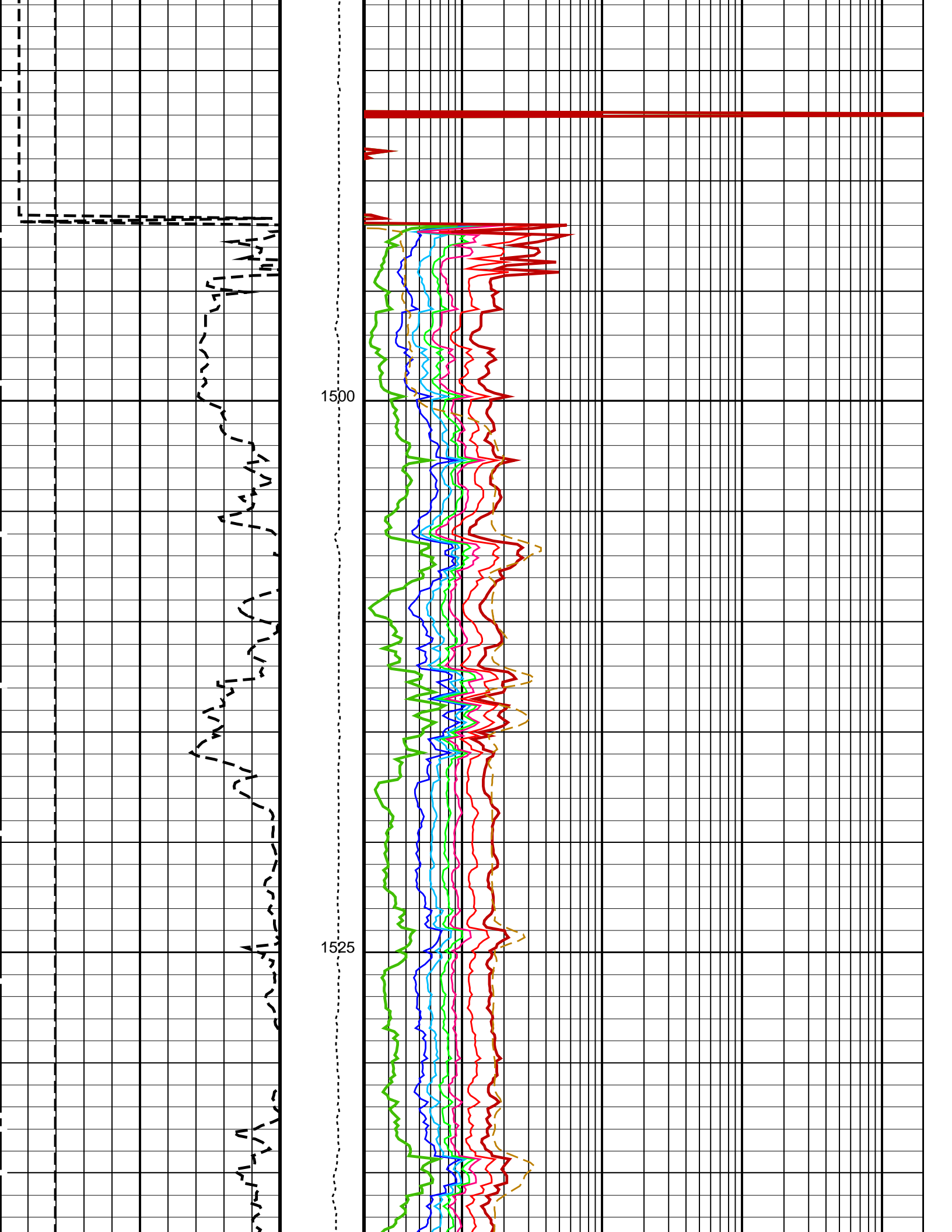
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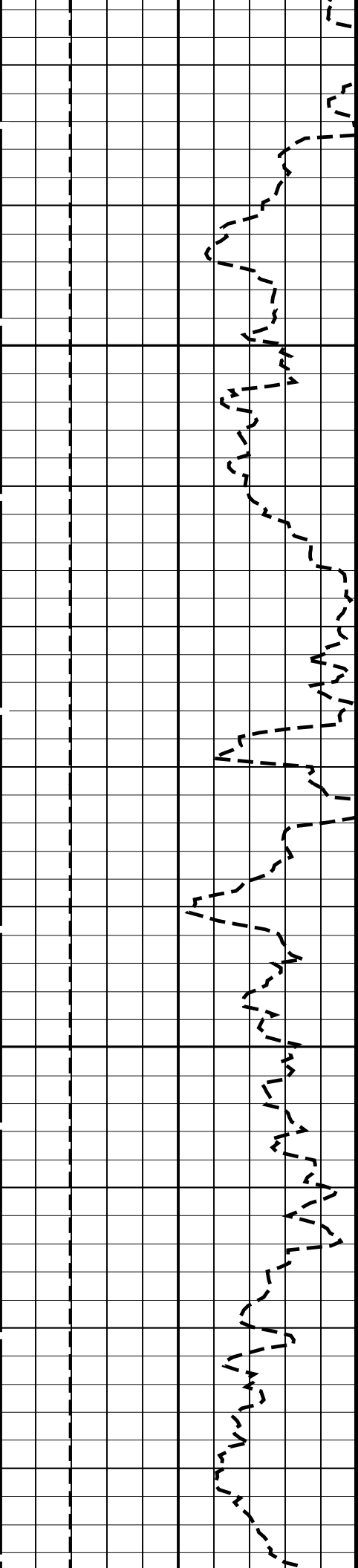
1400

1425



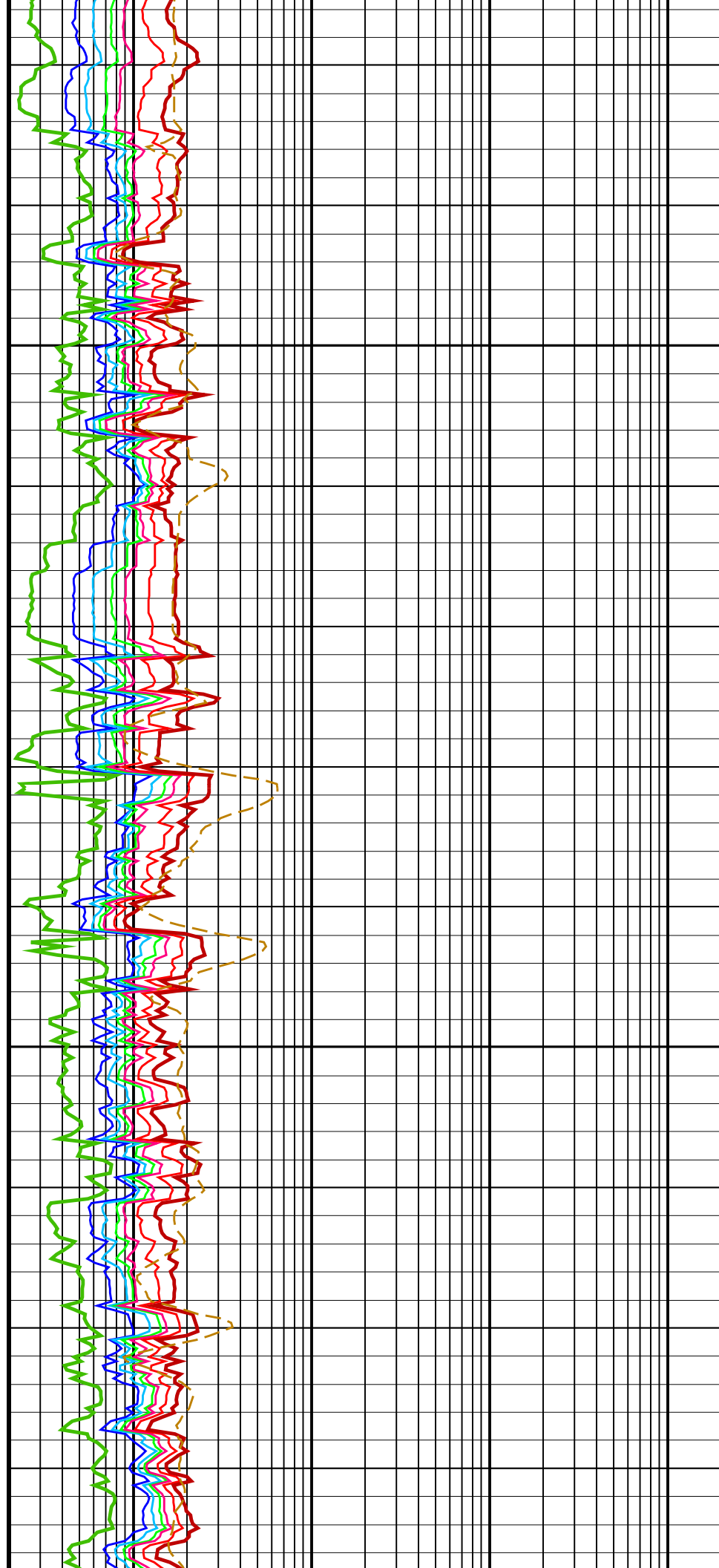


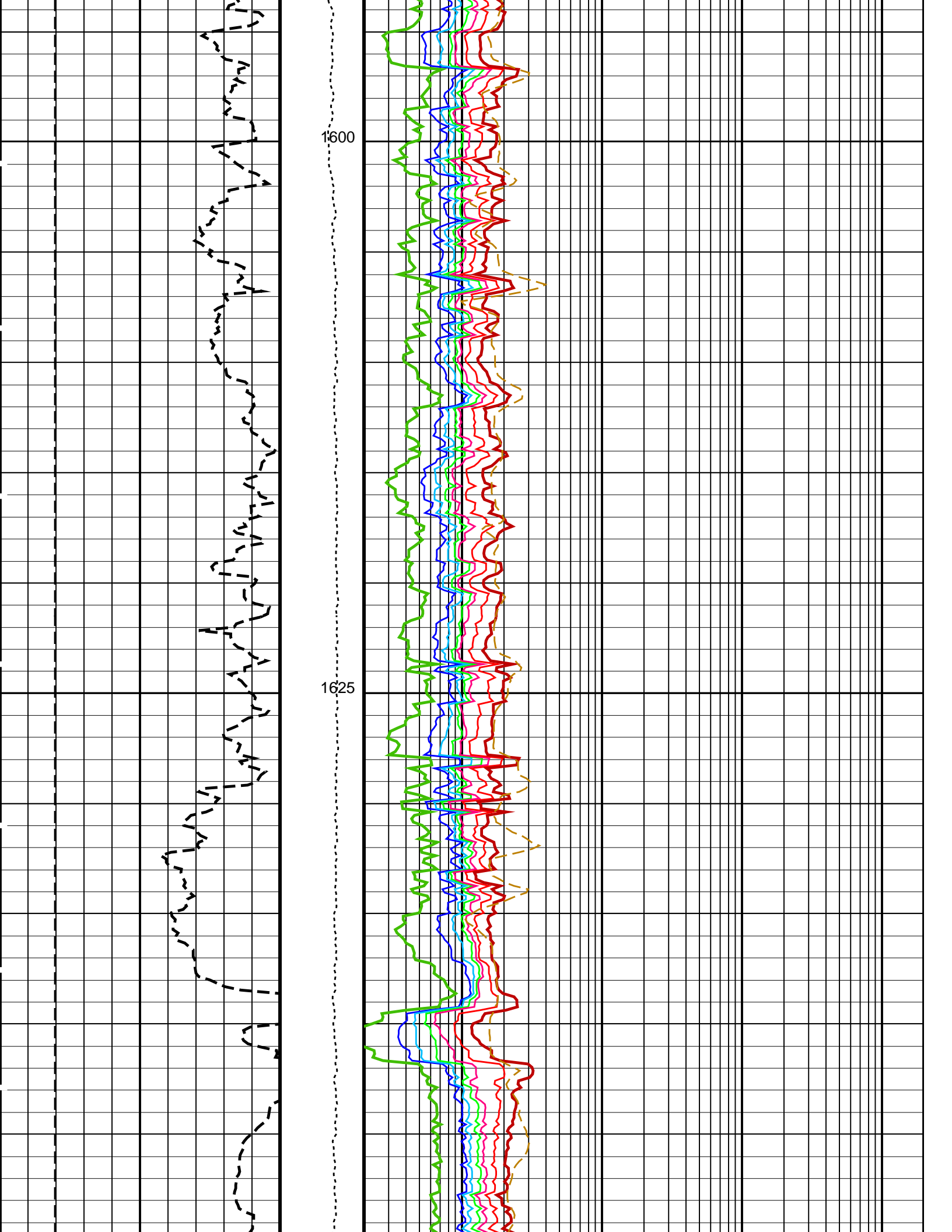


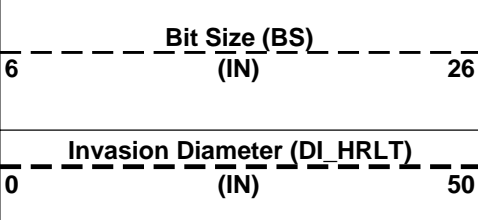
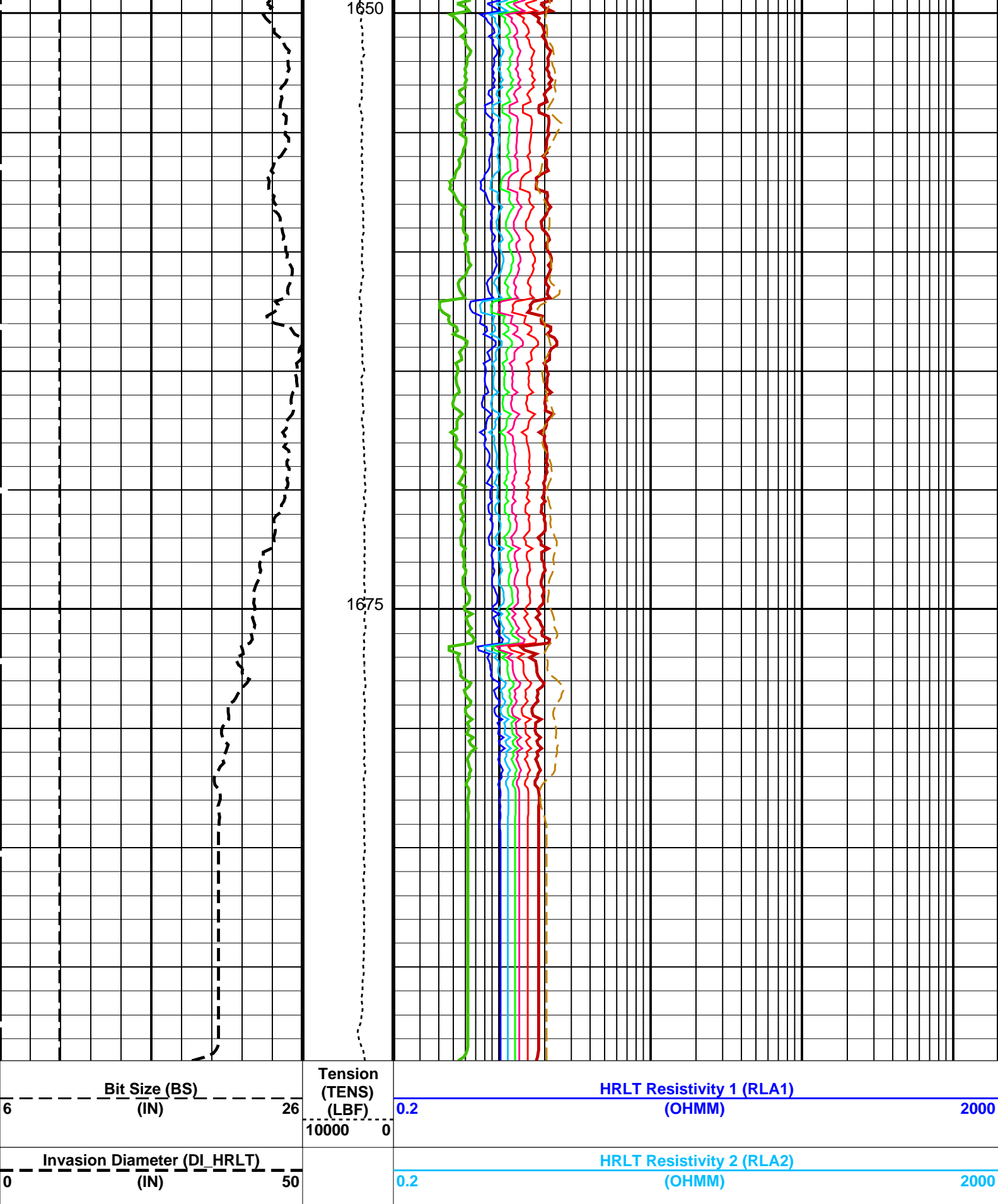


1550

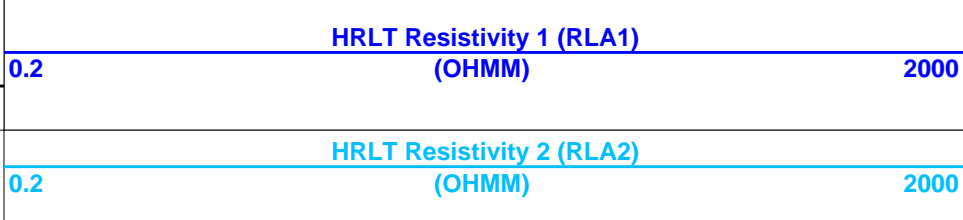
1575







10000 0



	0.2	HRLT Resistivity (RM_HRLT) (OHMM)	2000
	0.02	HRLT Mud Resistivity (RM_HRLT) (OHMM)	200
	0.2	Invaded Zone Resistivity (RXO_HRLT) (OHMM)	2000
	0.2	HRLT True Resistivity (RT_HRLT) (OHMM)	2000

PIP SUMMARY			
Time Mark Every 60 S			

Parameters			
DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
PROCVN	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	0	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSPO	Sonde Position	Centered	
SHT	Surface Hole Temperature	68	DEGF
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
EDTC-B: Enhanced DTS Cartridge			
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
BS	Bit Size	9.875	IN
MST	Mud Sample Temperature	23.00	DEGC
TD	Total Depth	10190.3	FT

Format: HRLT	Vertical Scale: 1:200	Graphics File Created: 30-Jan-2024 01:34
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OP System Version: 19C0-187			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

Output DLIS Files			
DEFAULT	MSS_LDEO_HRLA_LDL_014LUP	FN:12	PRODUCER 30-Jan-2024 01:34

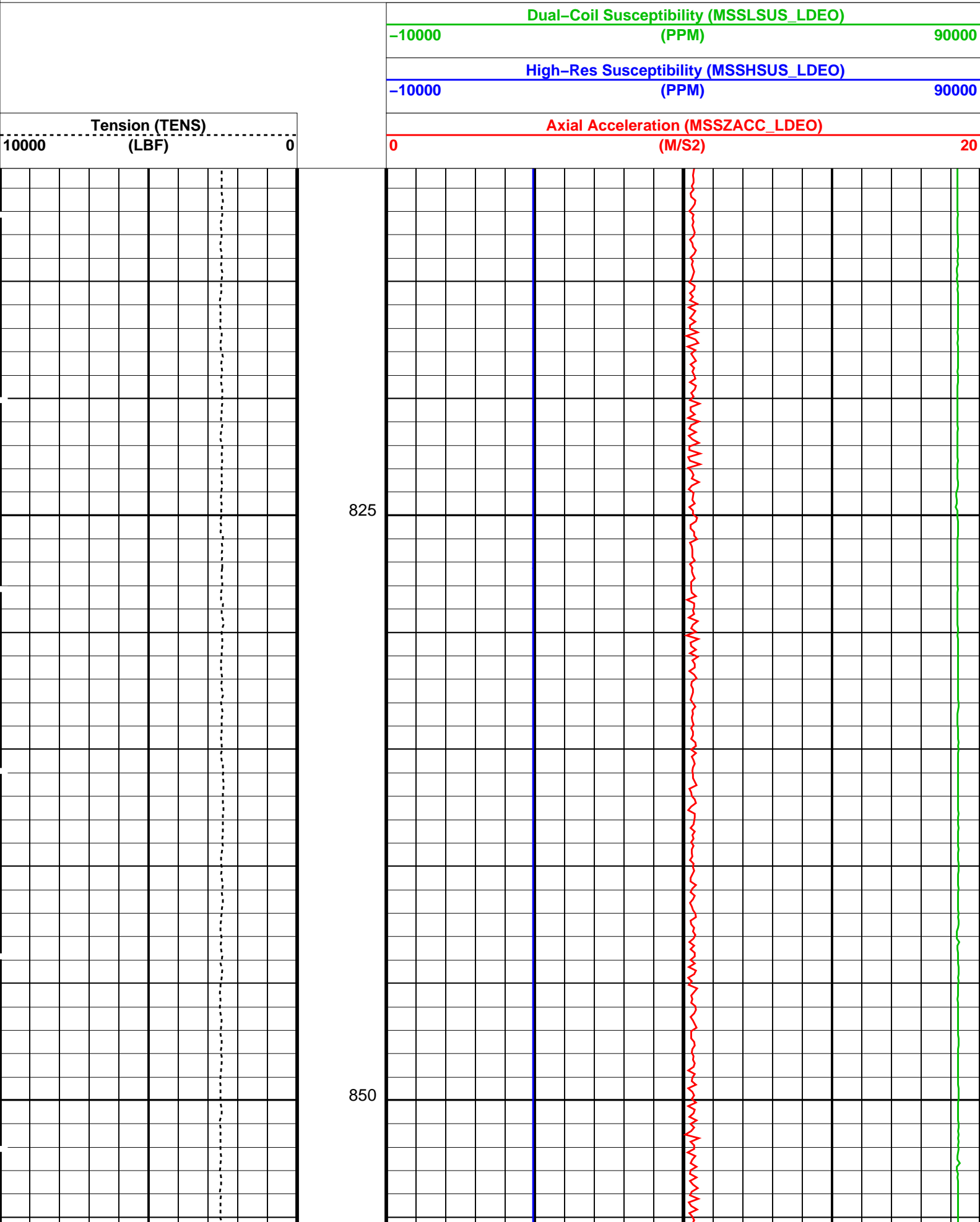
Company: International Ocean Discovery Program		Well: Expedition 401, Site U1611A	
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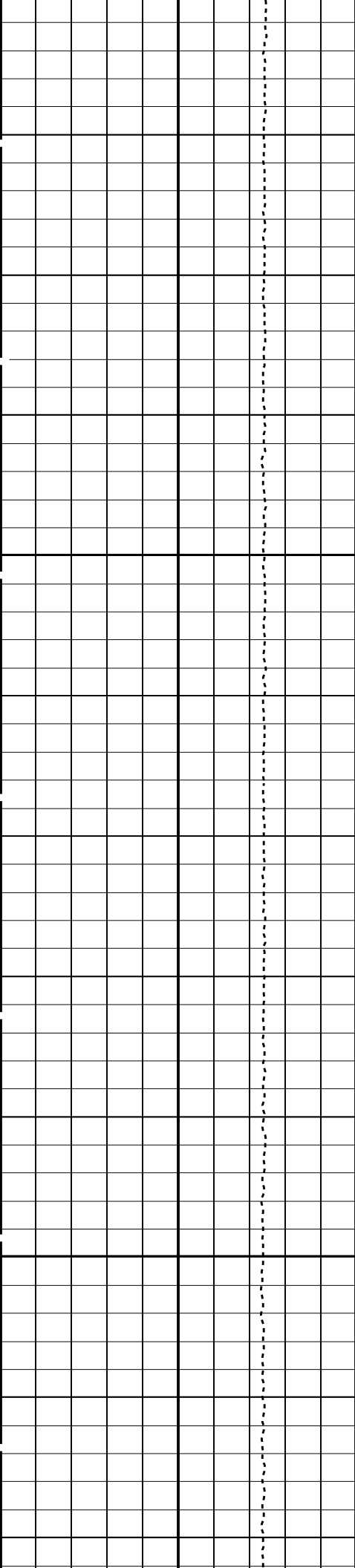
Output DLIS Files			
DEFAULT	MSS_LDEO_HRLA_LDL_014LUP	FN:12	PRODUCER 30-Jan-2024 01:34 1693.9 M 811.5 M

OP System Version: 19C0-187			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187

PIP SUMMARY

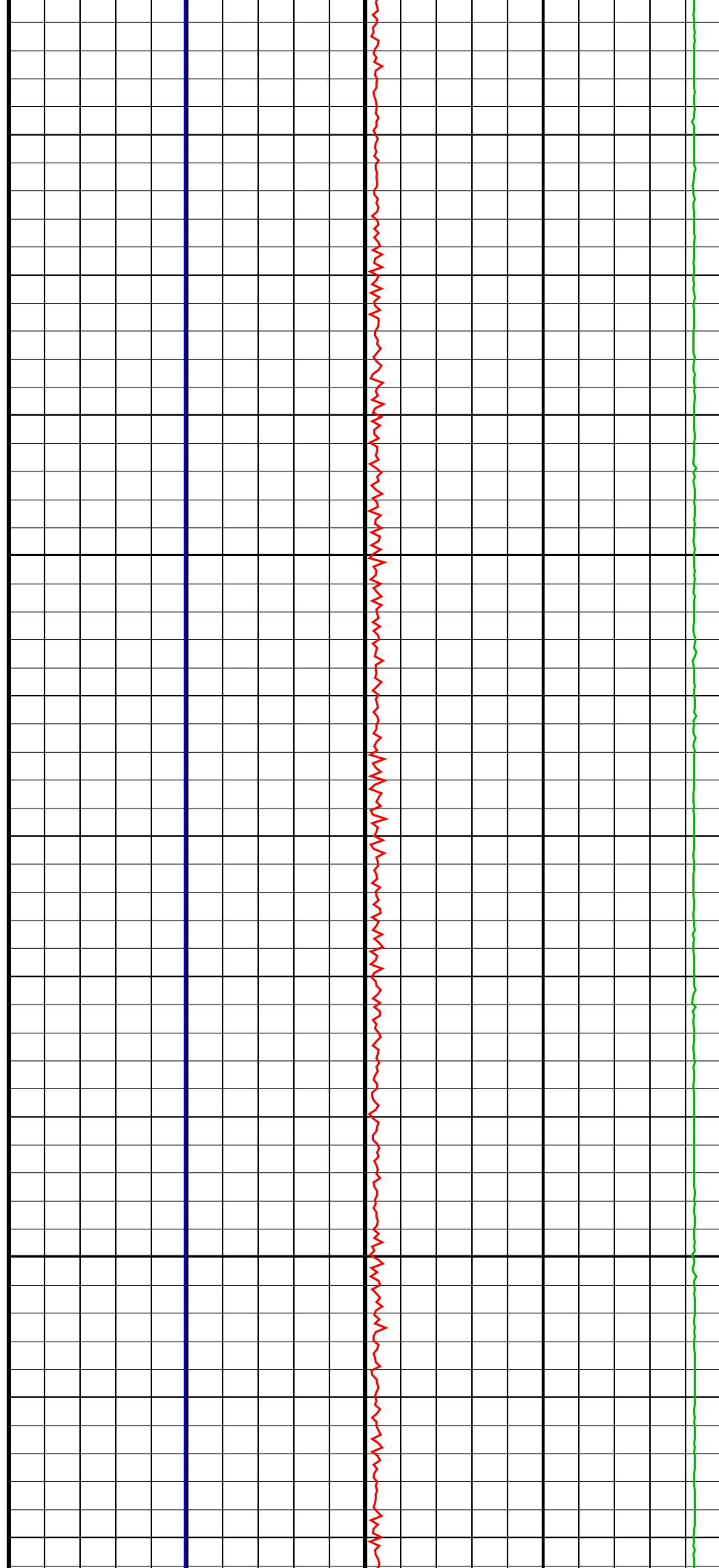
 Time Mark Every 60 S

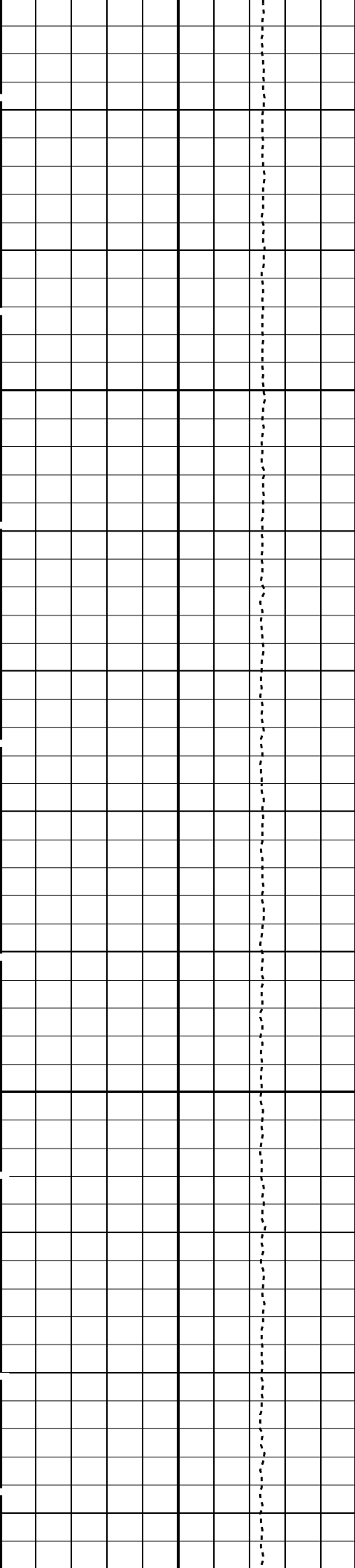




875

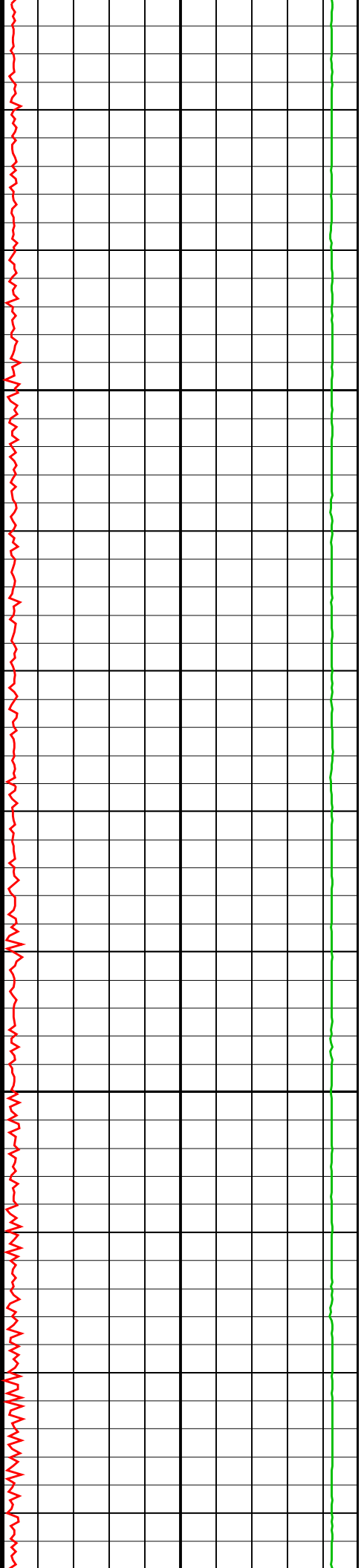
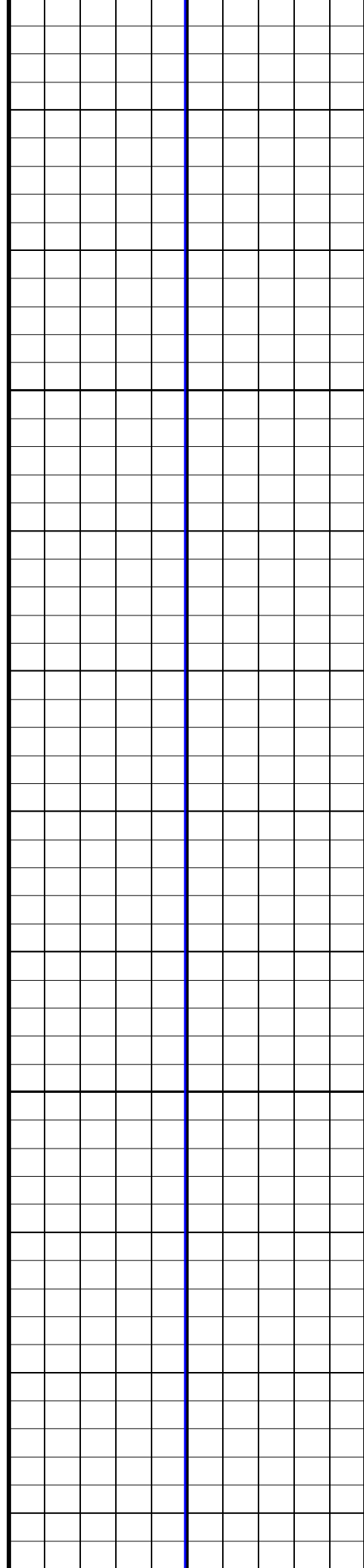
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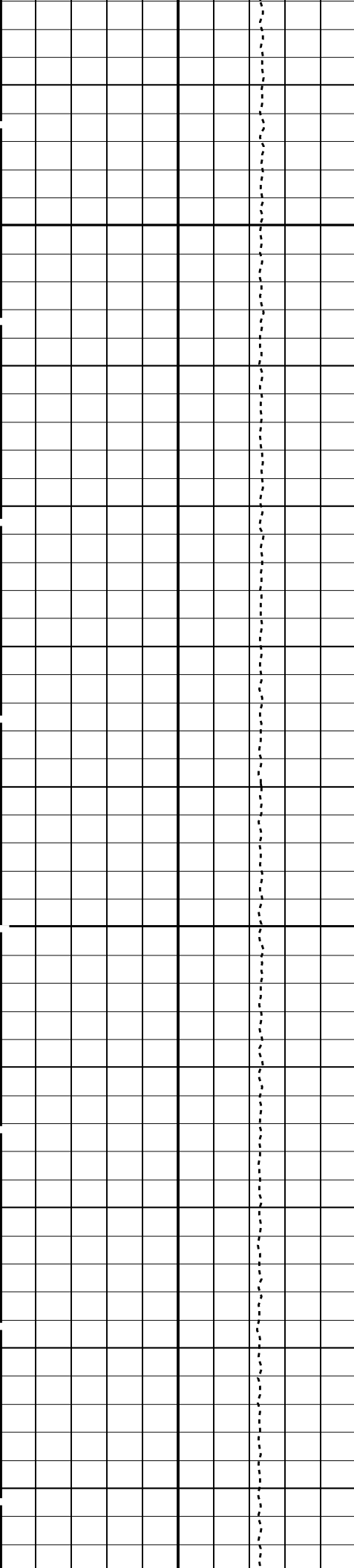




925

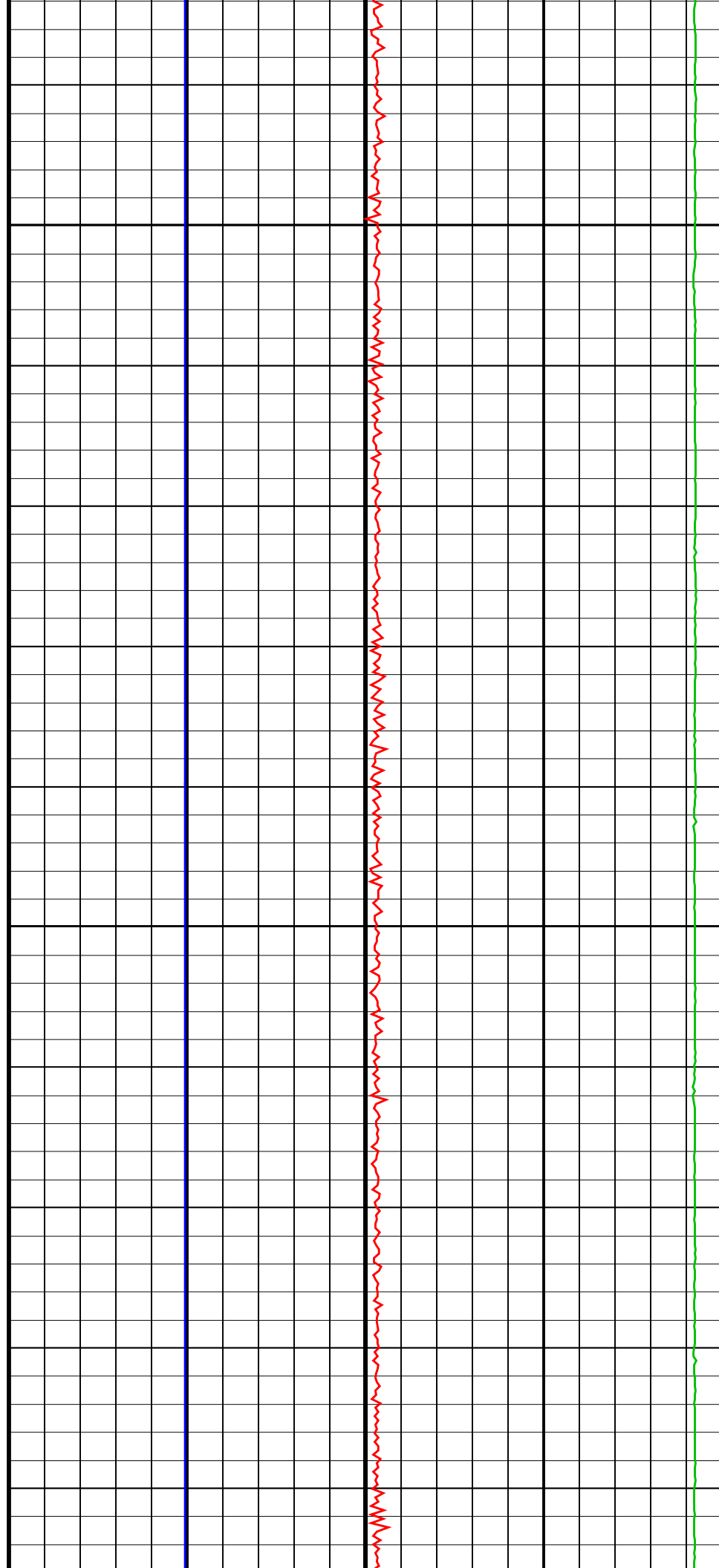
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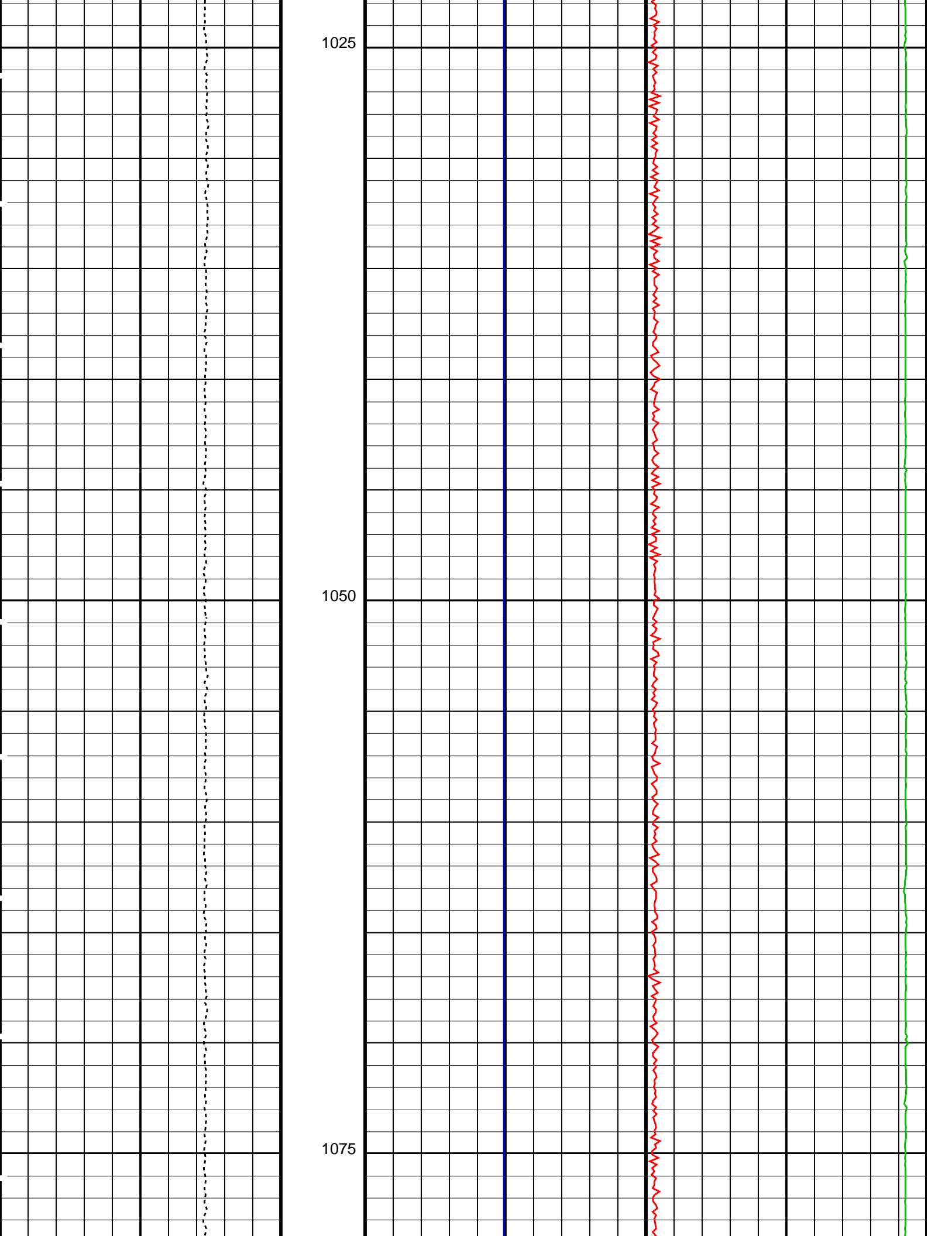


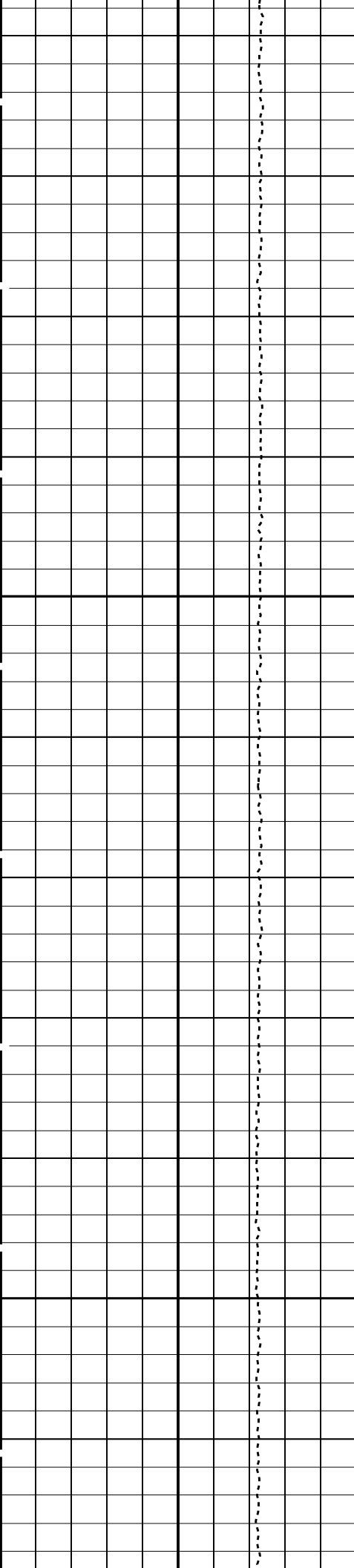


975

1000

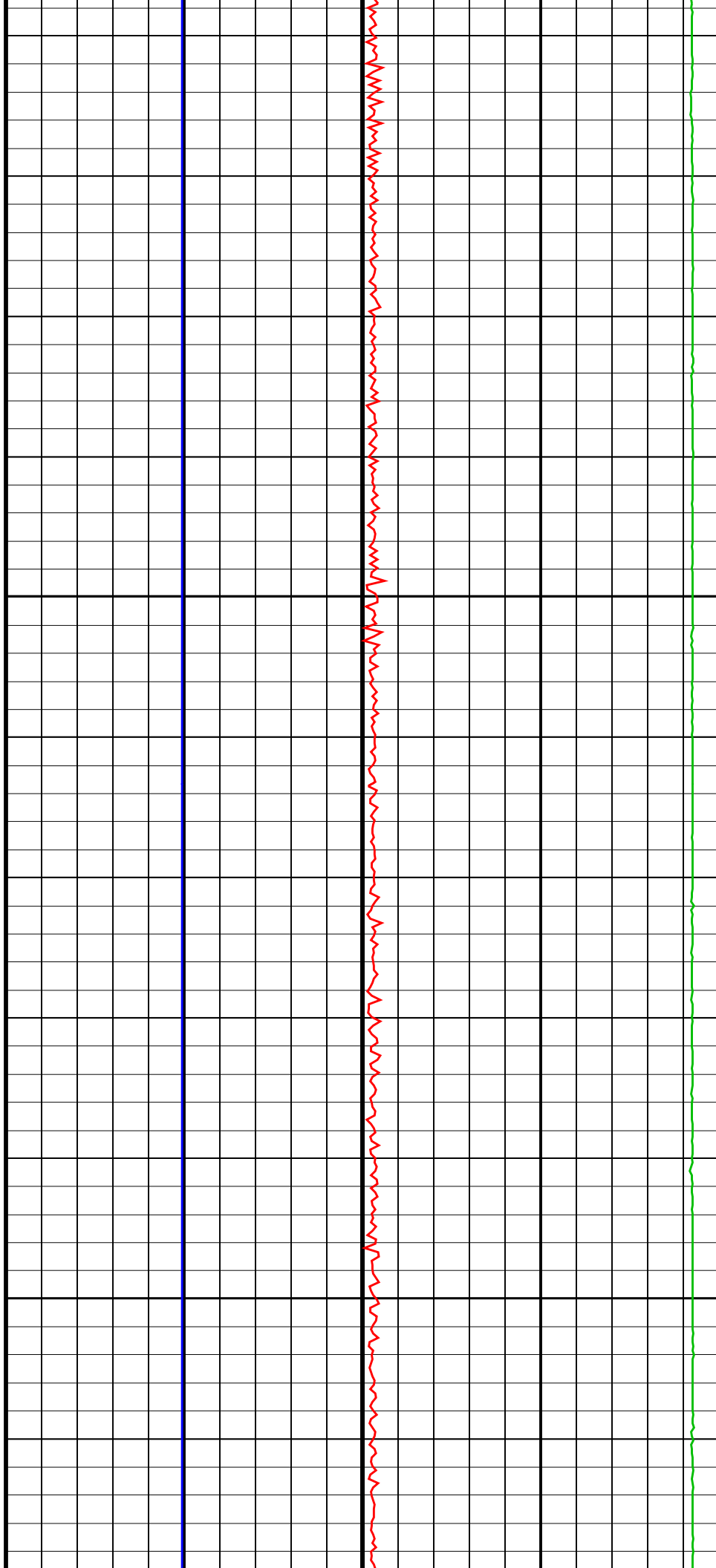


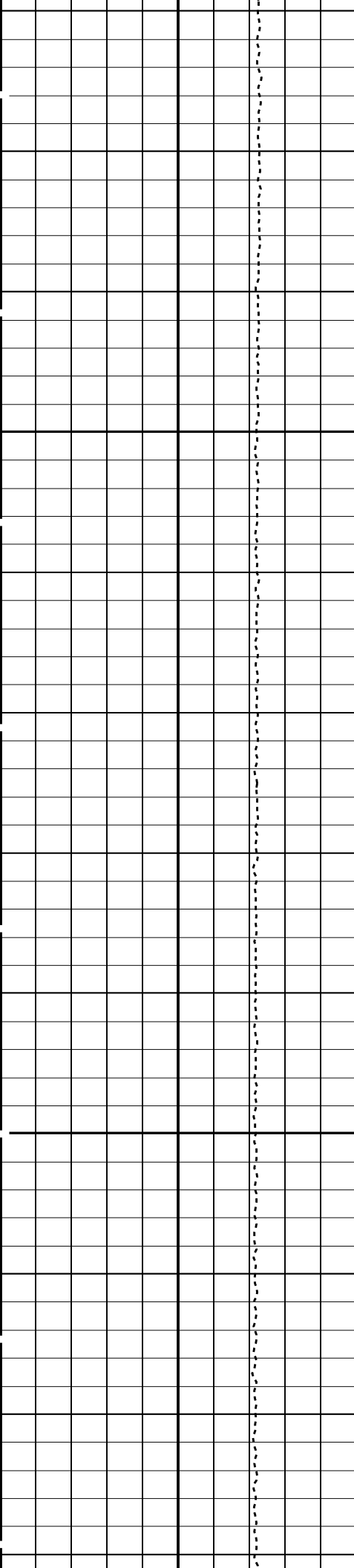




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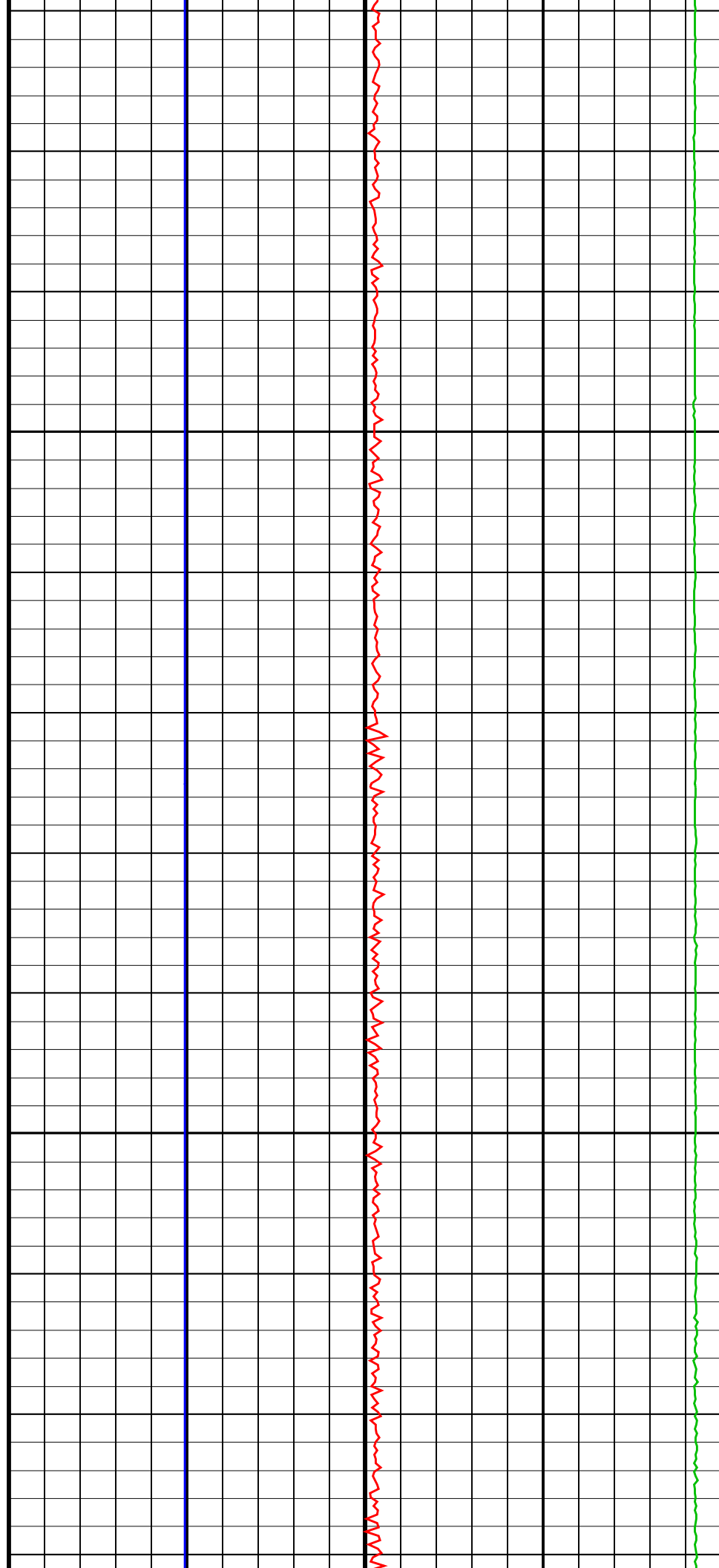
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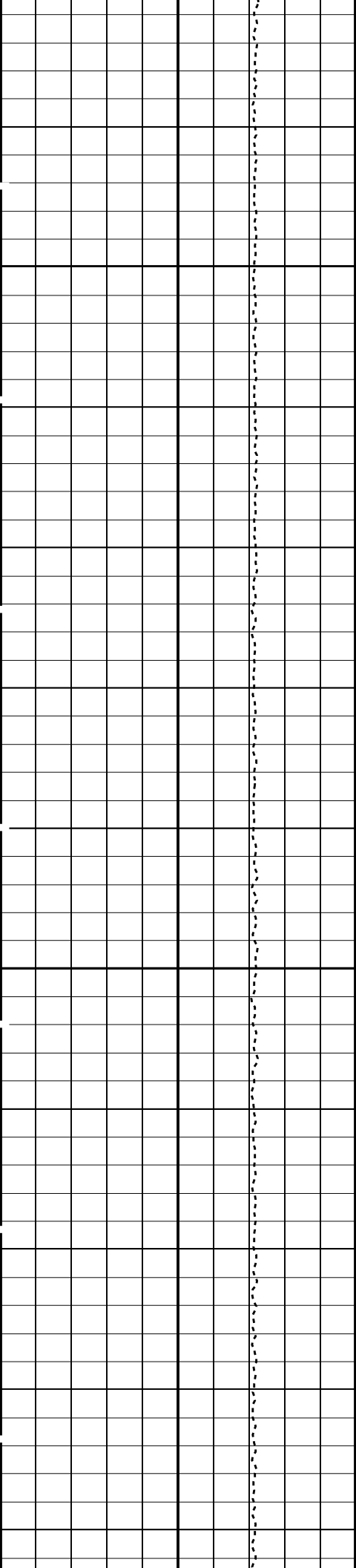




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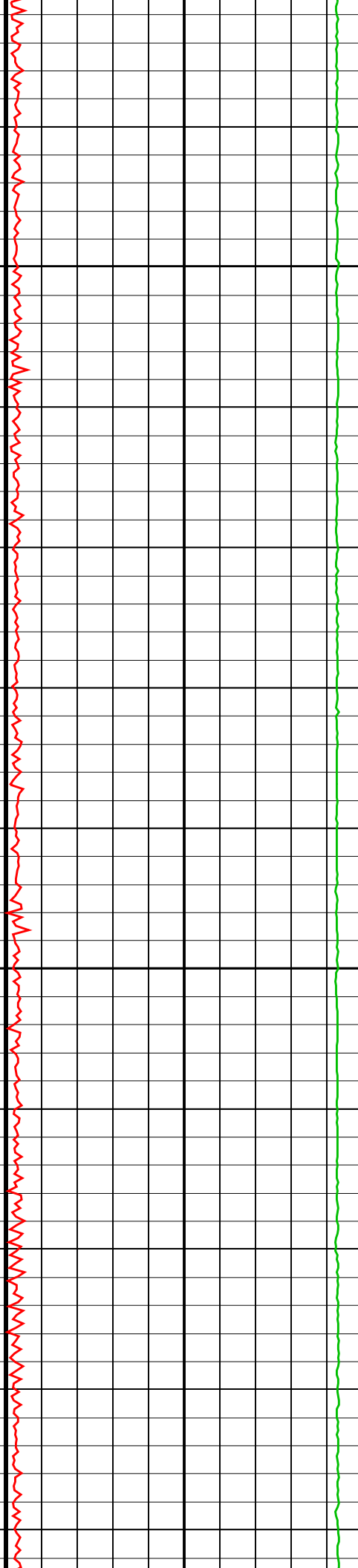
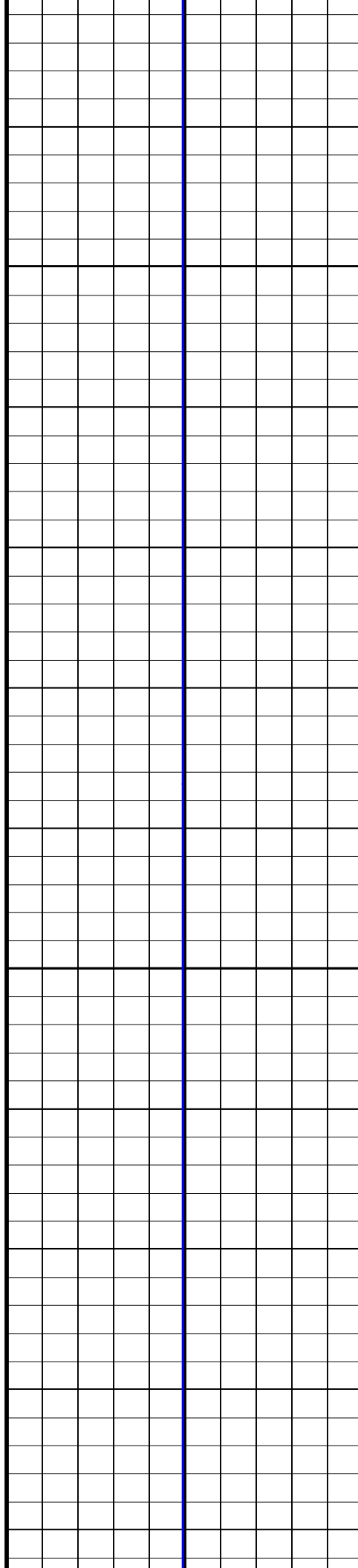
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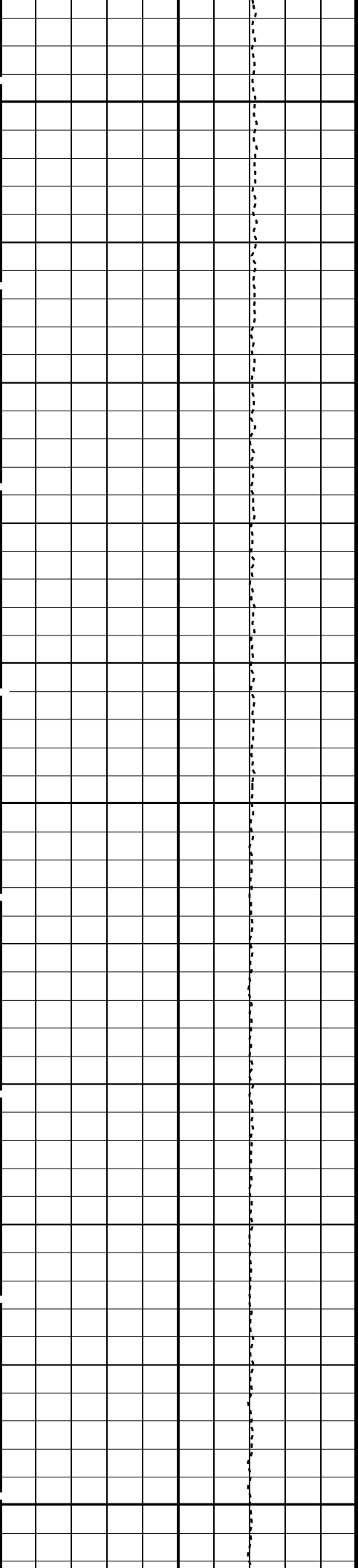




1200

1225

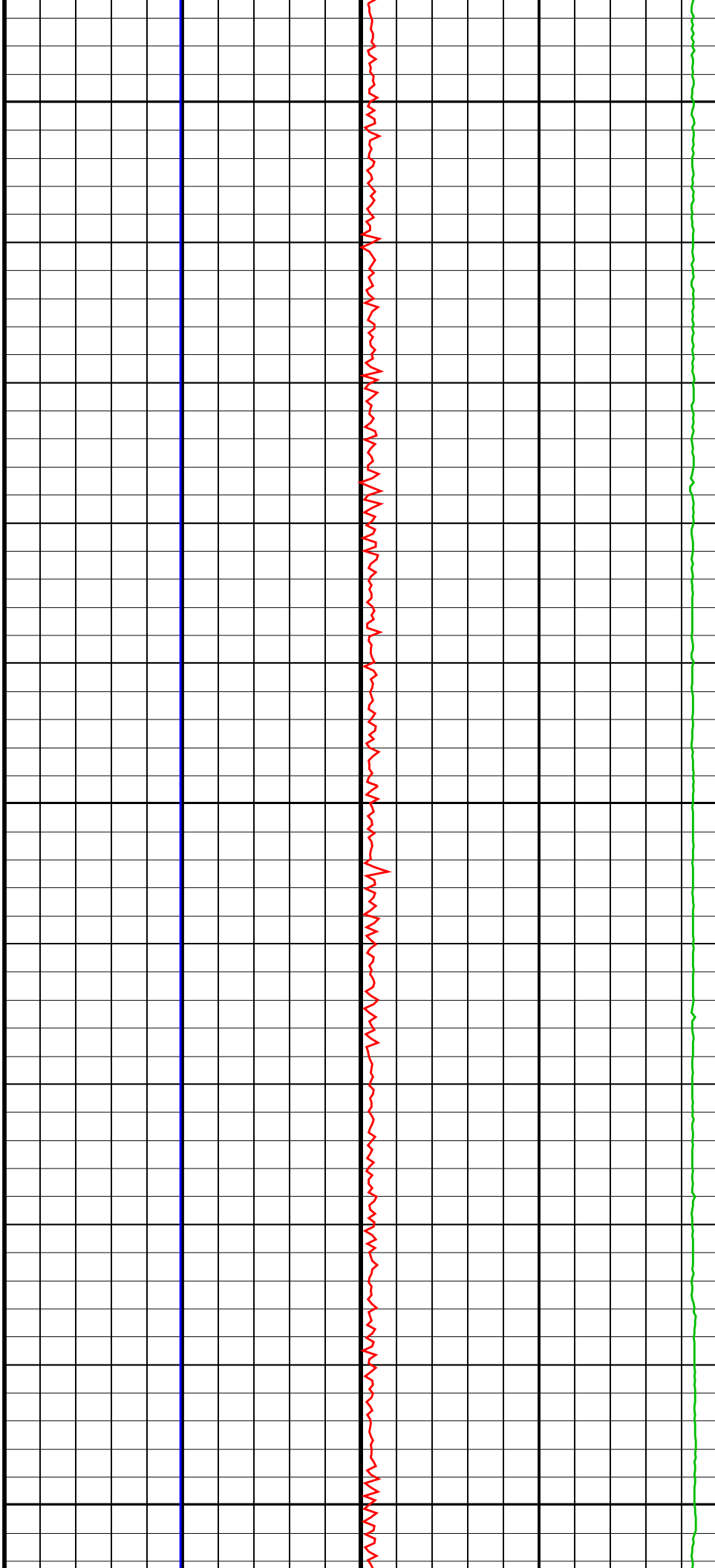


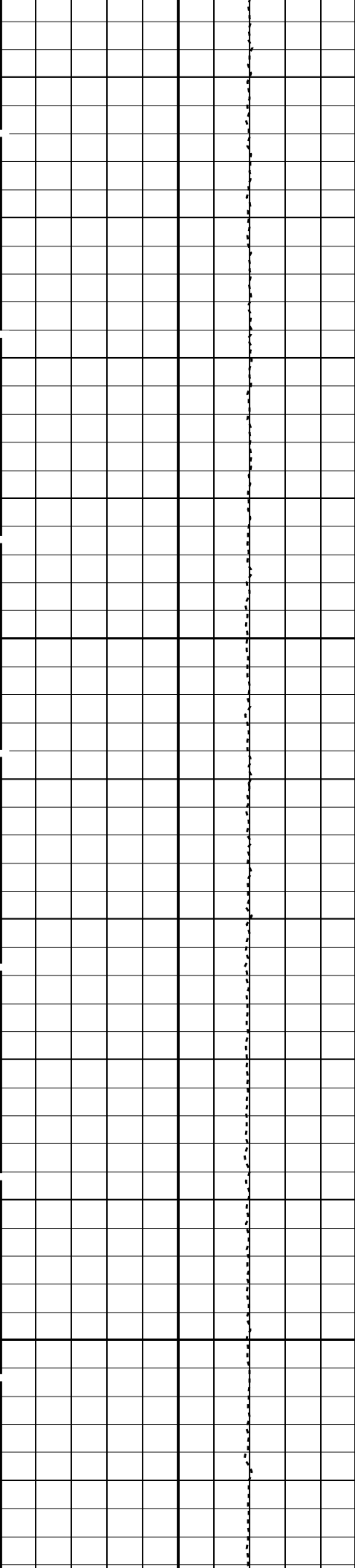


1250

1275

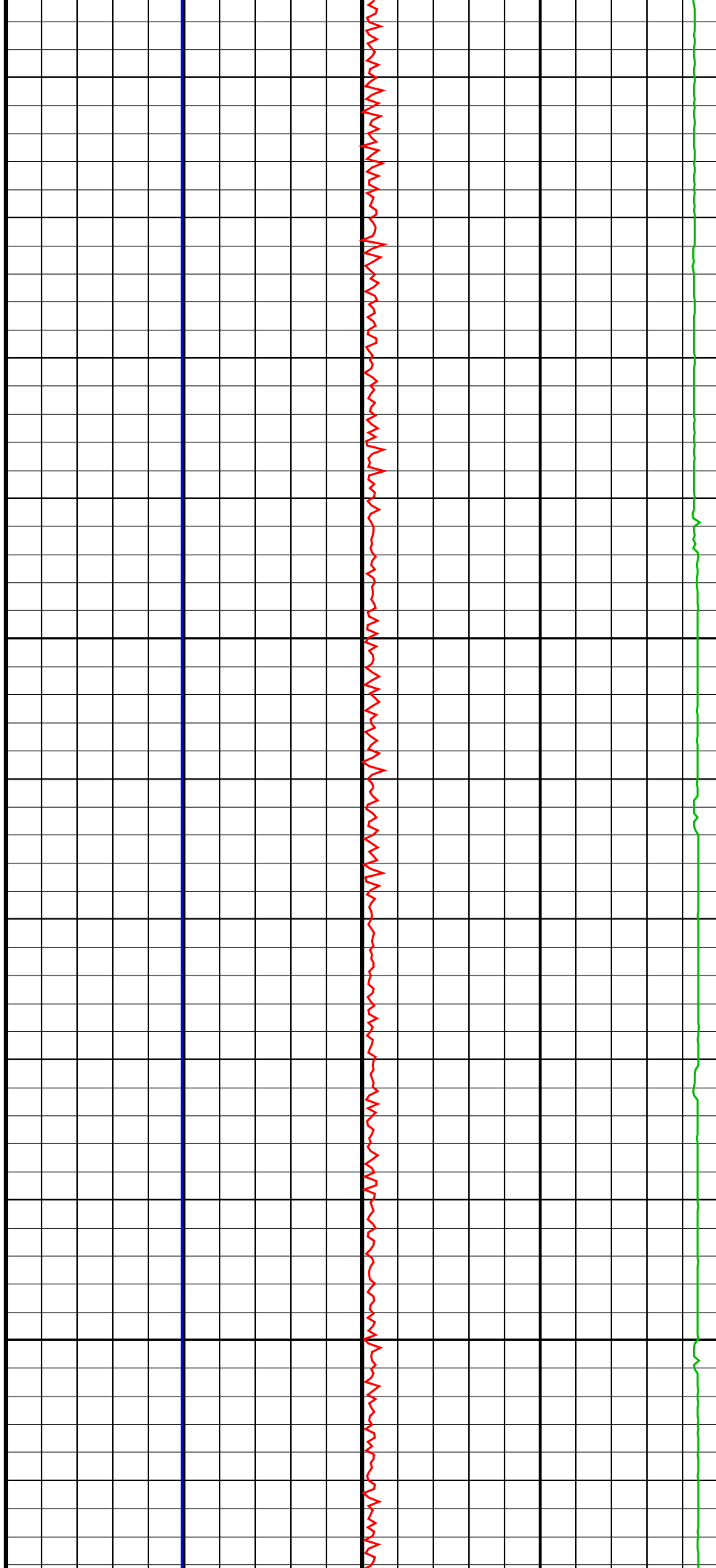
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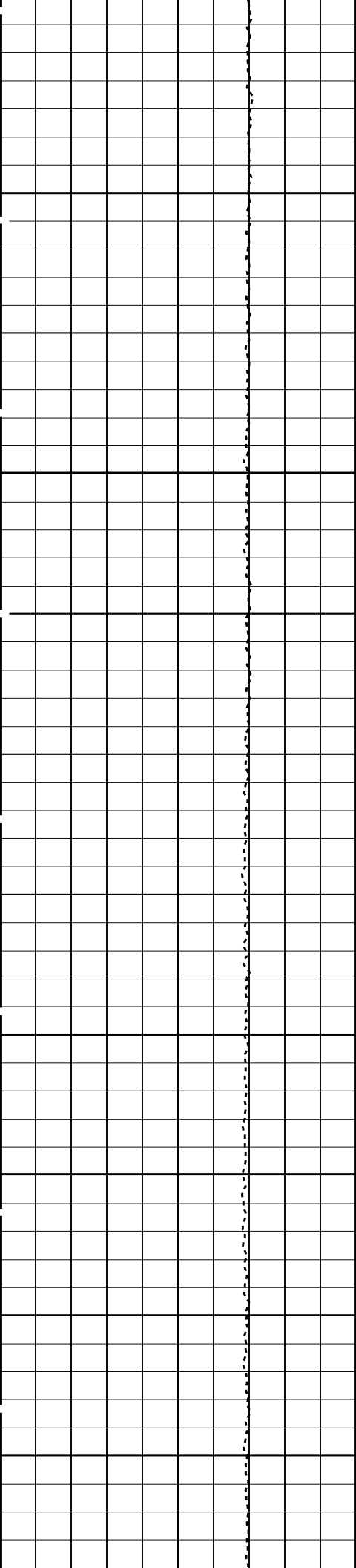




1325

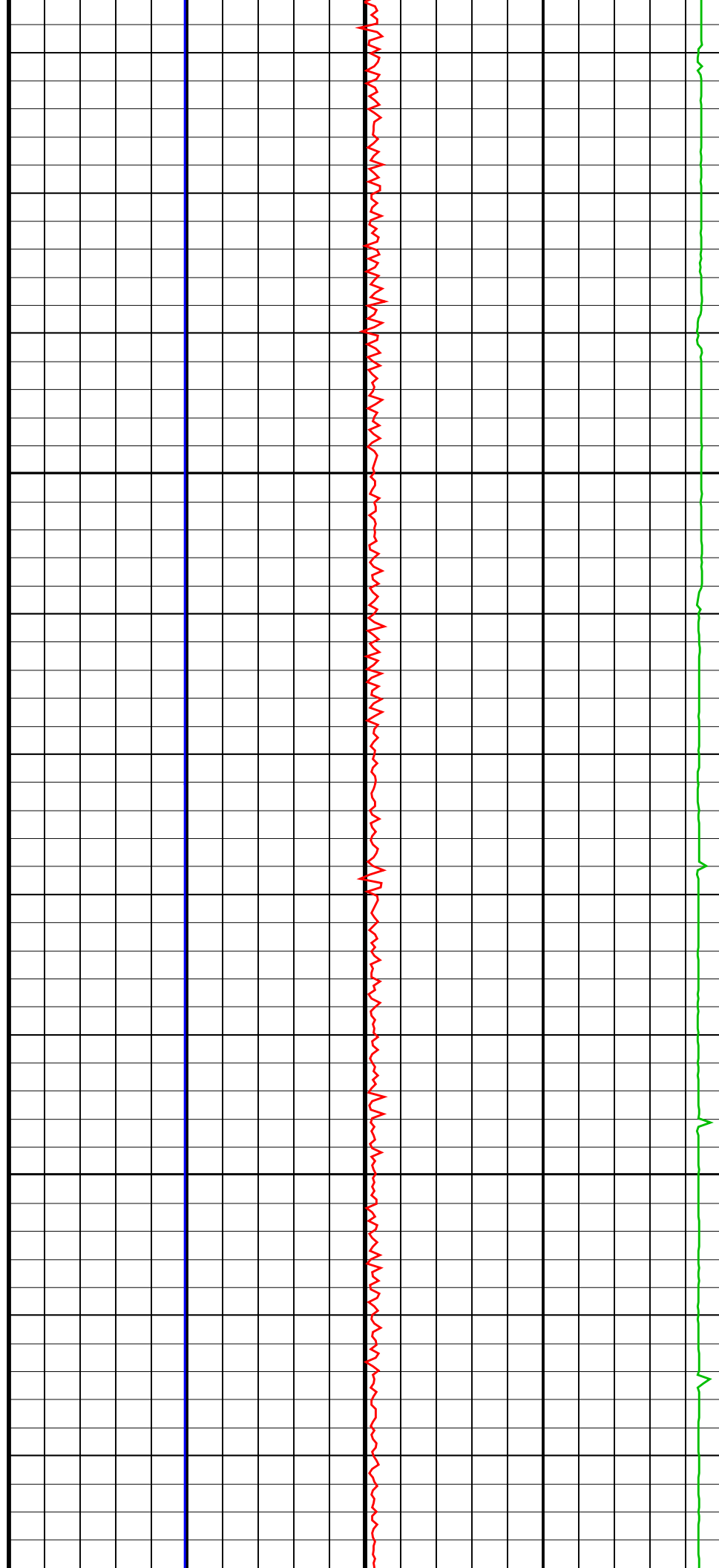
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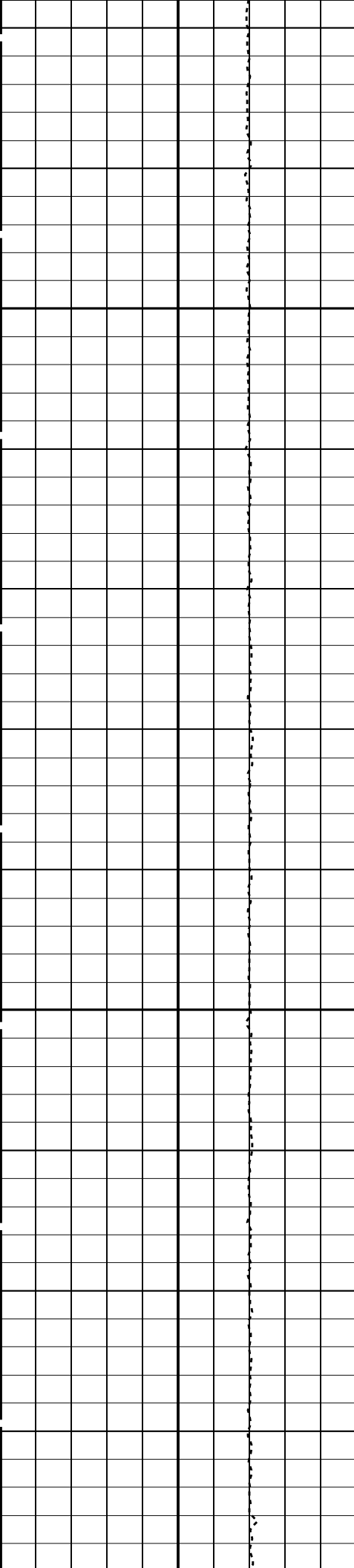




1375

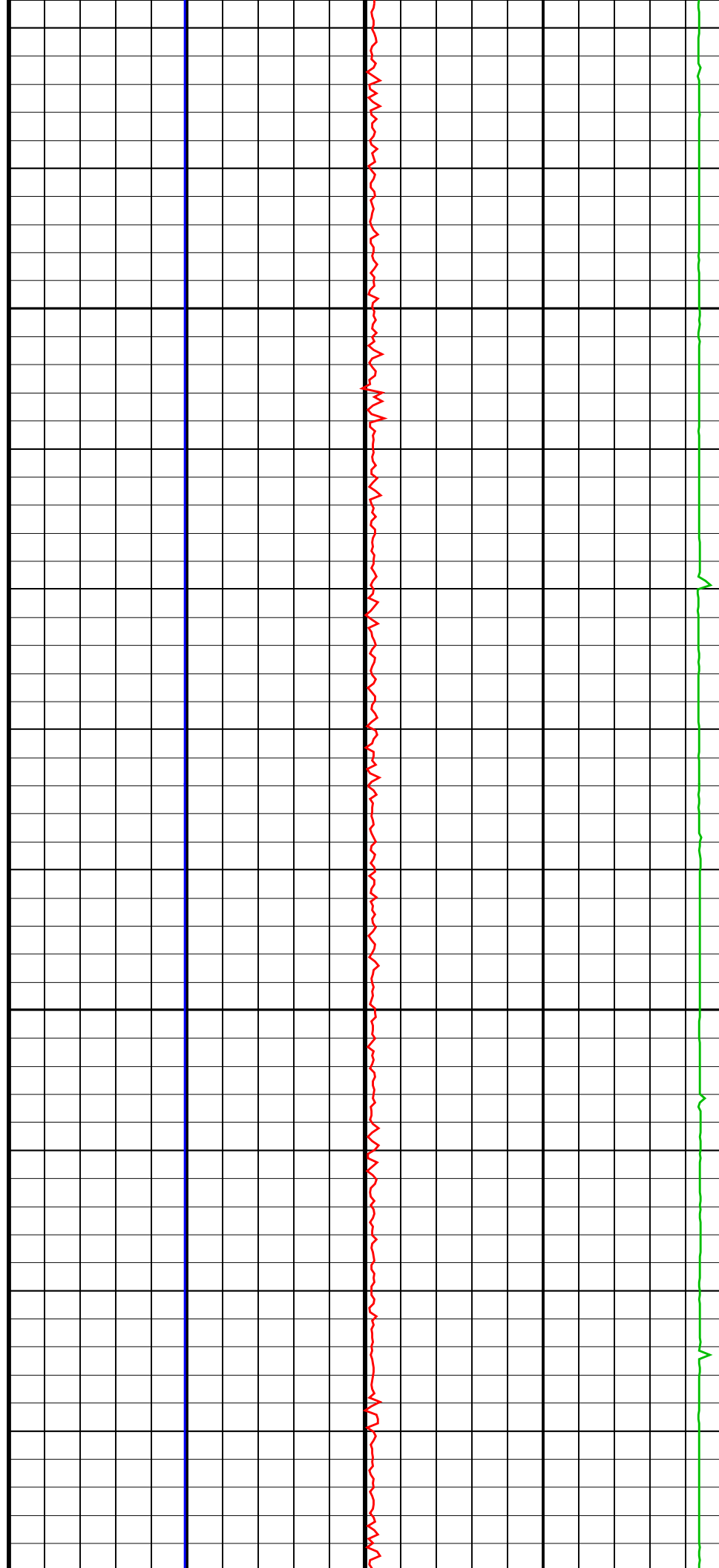
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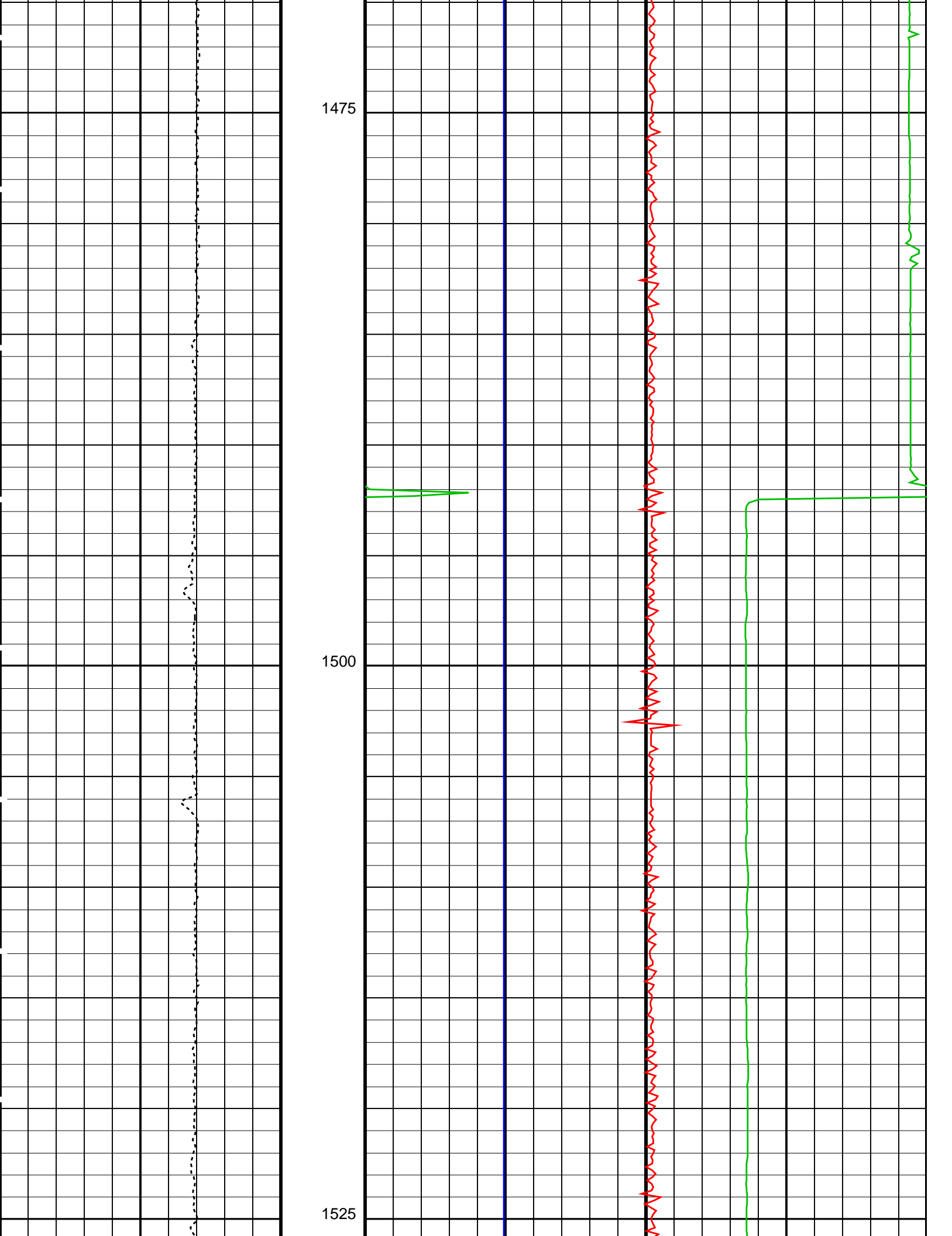


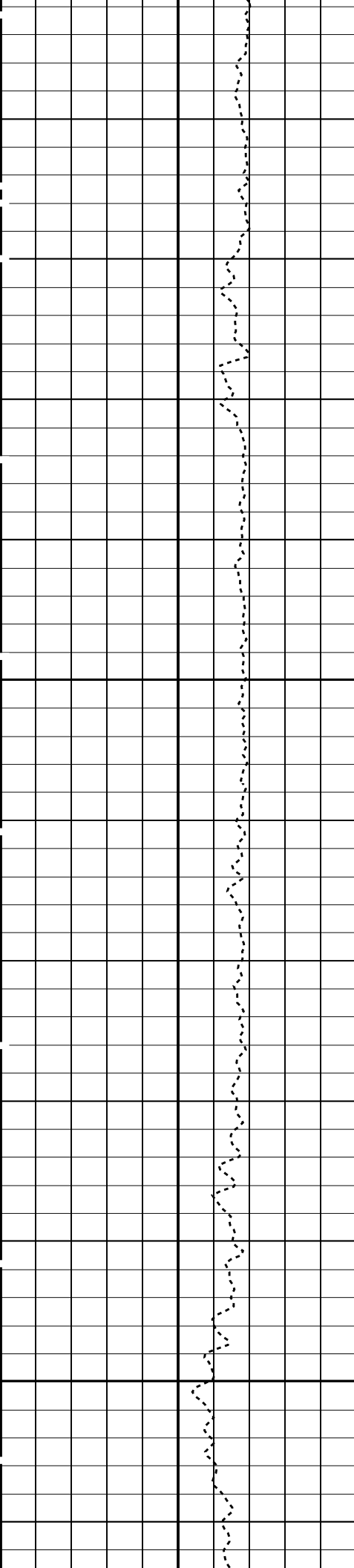


1425

1450

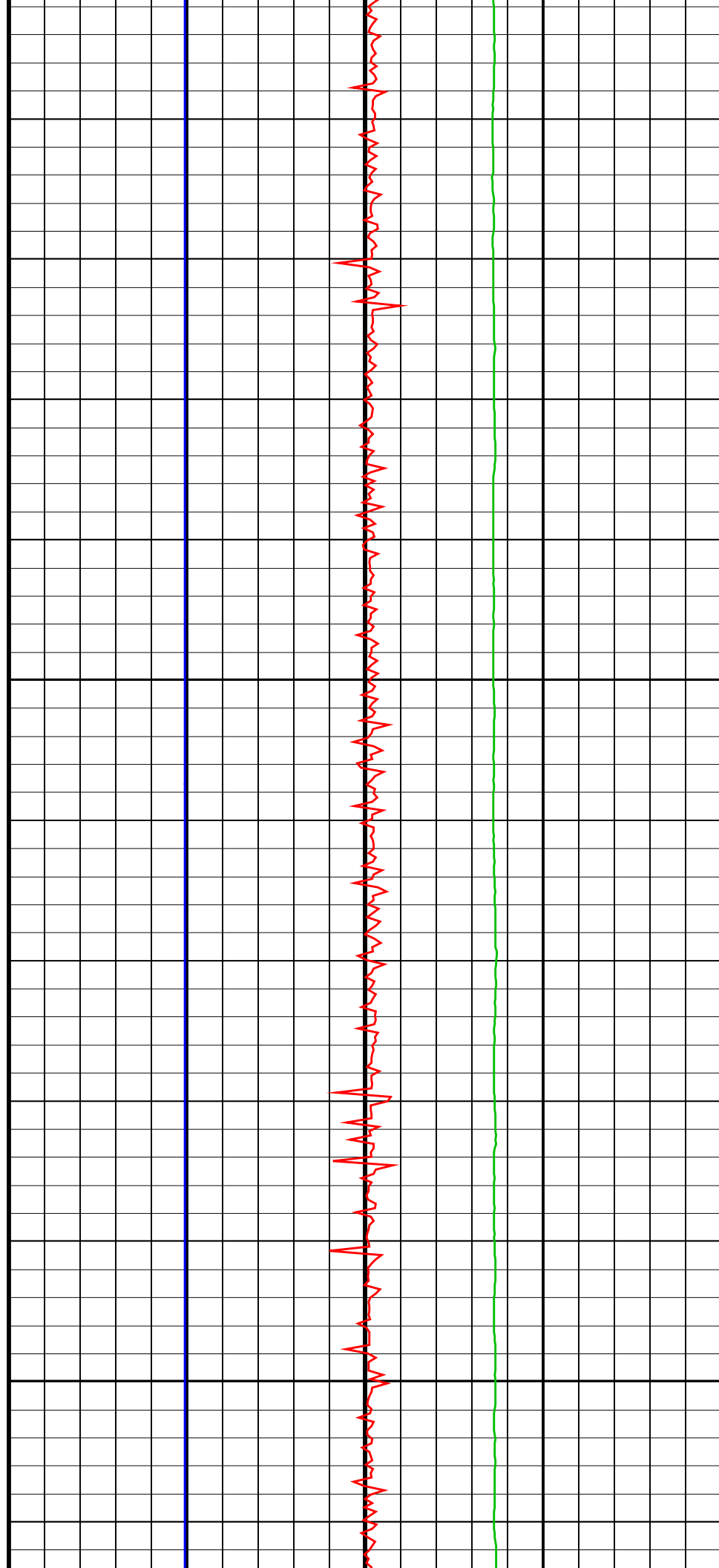


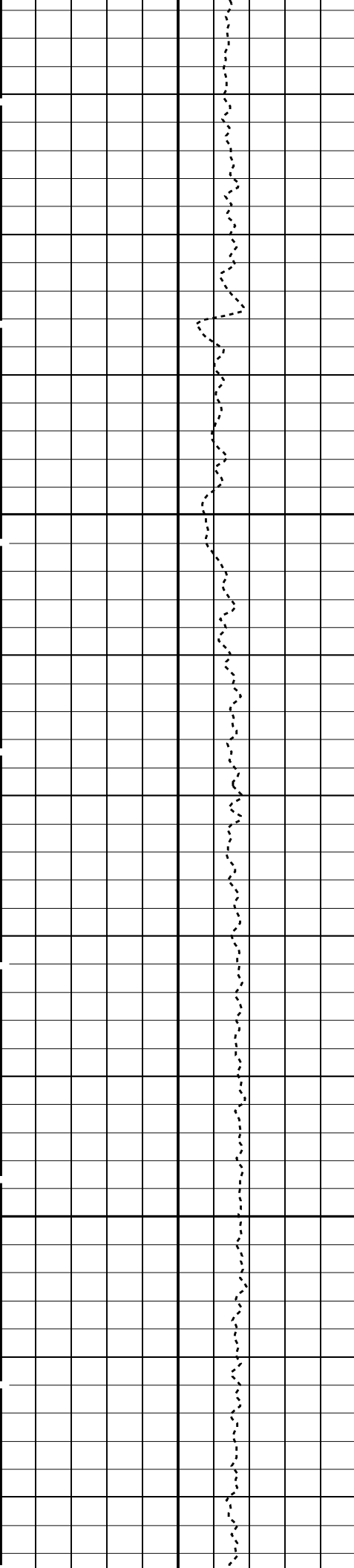




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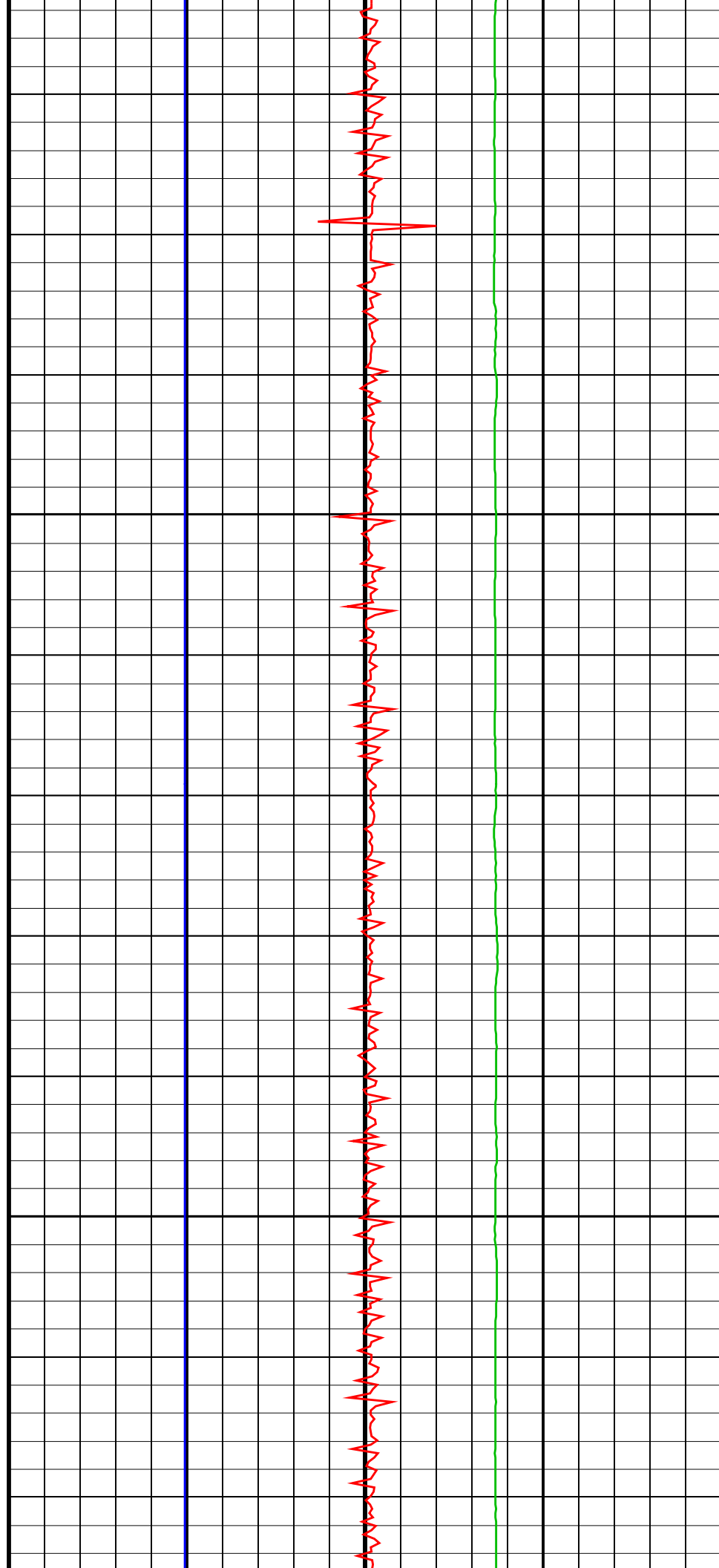
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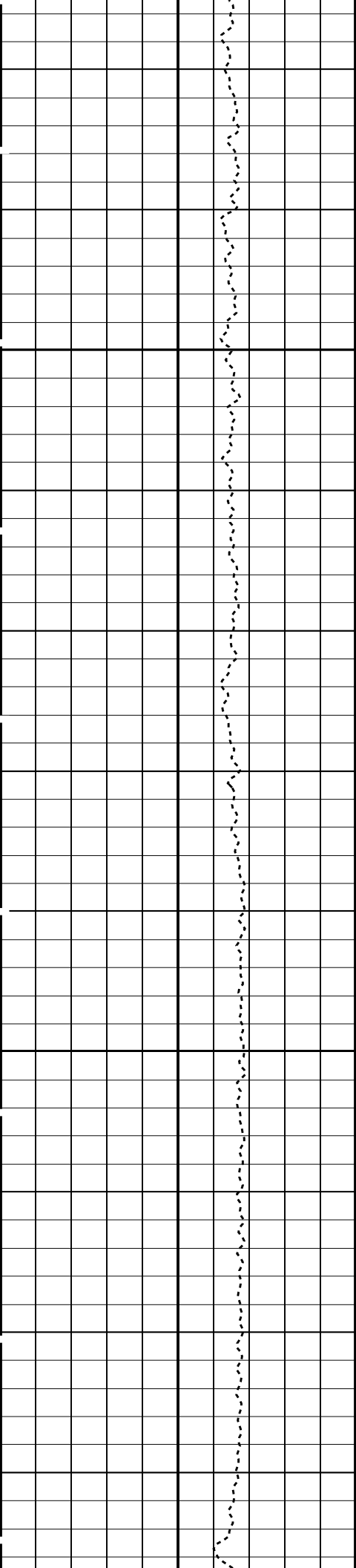




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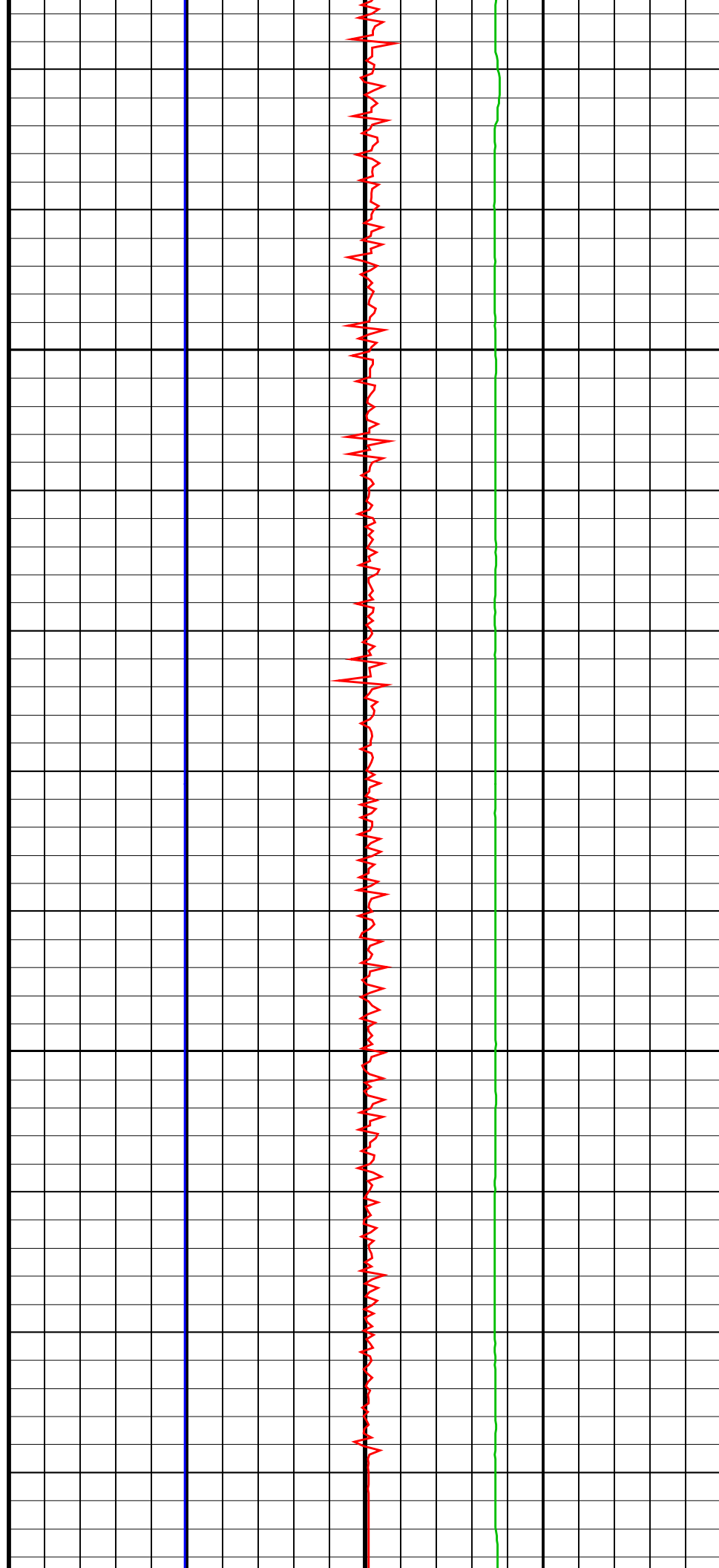
1625





1650

1675



Tension (TENS)		Axial Acceleration (MSSZACC_LDEO)	
10000	(LBF)	0	20
		High-Res Susceptibility (MSSHSUS_LDEO)	
		-10000	90000
		Dual-Coil Susceptibility (MSSLSUS_LDEO)	
		-10000	90000

PIP SUMMARY			
Time Mark Every 60 S			

Format: MSS_Logging	Vertical Scale: 1:200	Graphics File Created: 30-Jan-2024 01:34	
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OP System Version: 19C0-187			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

Output DLIS Files			
DEFAULT	MSS_LDEO_HRLA_LDL_014LUP	FN:12	PRODUCER 30-Jan-2024 01:34



Calibrations

MAXIS Field Log

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01							
Before: 29-Jan-2024 21:52							
HRLT M0-M1 Voltage Plus – 0	0	N/A	-318.7	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-332.4	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-339.5	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-329.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-319.8	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-321.4	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	320.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 7	0	N/A	-322.7	N/A	N/A	9.681	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12							
Before: 29-Jan-2024 21:52							
HRLT M1-M2 Voltage Plus – 0	0	N/A	1739	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1816	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1850	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1794	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1744	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1754	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1761	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23							
Before: 29-Jan-2024 21:52							
HRLT M2-M3 Voltage Plus – 0	0	N/A	1732	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1819	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1854	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1802	N/A	N/A	53.42	UV

HRLT M2-M3 Voltage Plus – 3	0	N/A	1802	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1745	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1758	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1752	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34

Before: 29-Jan-2024 21:52

HRLT A3-A4 Voltage Plus – 0	0	N/A	68600	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	71870	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	73570	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	71780	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	69450	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 5	0	N/A	69960	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 6	0	N/A	-68270	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V45

Before: 29-Jan-2024 21:52

HRLT A4-A5 Voltage Plus – 0	0	N/A	68690	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 1	0	N/A	72070	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 2	0	N/A	73760	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 3	0	N/A	71910	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 4	0	N/A	69570	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 5	0	N/A	70050	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 6	0	N/A	-68480	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V56

Before: 29-Jan-2024 21:52

HRLT A5-A6 Voltage Plus – 0	0	N/A	68550	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 1	0	N/A	71930	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 2	0	N/A	73630	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 3	0	N/A	71780	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 4	0	N/A	69470	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 5	0	N/A	69930	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 6	0	N/A	-68330	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT VTP

Before: 29-Jan-2024 21:52

HRLT Torpedo-M0 Voltage – 0	0	N/A	-68110	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage – 1	0	N/A	-71760	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage – 2	0	N/A	-73490	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage – 3	0	N/A	-71760	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage – 4	0	N/A	-69490	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage – 5	0	N/A	-69910	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage – 6	0	N/A	68130	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage – 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT VBD

Before: 29-Jan-2024 21:52

HRLT Bridle#9-M0 Voltage – 0	0	N/A	-68110	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage – 1	0	N/A	-71830	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage – 2	0	N/A	-73540	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage – 3	0	N/A	-71770	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage – 4	0	N/A	-69460	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage – 5	0	N/A	-69920	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage – 6	0	N/A	68170	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage – 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT ISO

Before: 29-Jan-2024 21:52

HRLT Source Current Plus – 0	0	N/A	284.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 7	0	N/A	281.1	N/A	N/A	8.520	UA

High Resolution Laterolog Array – B Wellsite Calibration – HRLT MV

Before: 29-Jan-2024 21:52

HRLT Vertical Voltage PI – 0	0	N/A	-320.4	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 1	0	N/A	-326.0	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 2	0	N/A	-332.1	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 3	0	N/A	-320.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 4	0	N/A	-308.9	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 5	0	N/A	-325.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 6	0	N/A	327.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 7	0	N/A	-322.7	N/A	N/A	9.681	UV

Hostile Litho–Density Sonde Wellsite Calibration – Background Measurement

Master: 15–Dec–2023 13:21 Before: 23–Dec–2023 2:40

SS Cs Resolution Bkg	9.000	7.792	7.773	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	8.029	8.178	N/A	N/A	1.800	%
LSW1 Background	100.0	67.89	67.13	N/A	N/A	3.000	CPS
LSW2 Background	100.0	60.22	60.52	N/A	N/A	3.000	CPS
LSW3 Background	200.0	137.9	137.3	N/A	N/A	6.000	CPS
LSW4 Background	250.0	171.3	171.3	N/A	N/A	7.500	CPS
LSW5 Background	600.0	402.6	400.5	N/A	N/A	18.00	CPS
SSW1 Background	100.0	65.12	64.84	N/A	N/A	3.000	CPS
SSW2 Background	200.0	111.7	112.8	N/A	N/A	6.000	CPS
SSW3 Background	500.0	311.0	310.6	N/A	N/A	15.00	CPS
SSW4 Background	270.0	168.2	167.1	N/A	N/A	8.100	CPS
SSW5 Background	200.0	121.1	120.4	N/A	N/A	6.000	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Aluminum Measurement

Master: 15–Dec–2023 13:52

LSW1 Aluminum	600.0	385.8	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	575.3	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	698.1	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	348.4	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	320.4	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	1864	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	5274	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	7405	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	2910	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	318.3	N/A	N/A	N/A	N/A	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Lithology Measurement

Master: 15–Dec–2023 13:46

LSW1 Iron	400.0	270.4	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	470.6	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	624.1	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	327.7	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	293.7	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1387	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4468	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	6886	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	2714	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	295.1	N/A	N/A	N/A	N/A	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Caliper Calibration

Before: 15–Dec–2023 14:29

HLDS Caliper Small Ring	12.00	N/A	16.24	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	20.26	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: Calibration out of date 20–Apr–2023 1:22 Before: Calibration out of date 13–Jun–2021 15:44

Na 511 Peak Loc	40.00	38.56	39.64	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.82	14.84	N/A	N/A	2.000	%
High Voltage	1150	1206	1168	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	139.2	143.3	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.087	7.709	N/A	N/A	2.000	%
Temperature	15.50	26.64	11.69	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	47.40	12.89	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: Calibration out of date 20–Apr–2023 1:22 Before: Calibration out of date 13–Jun–2021 15:44

Na 511 Peak Loc	40.00	39.72	39.51	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.41	15.27	N/A	N/A	2.000	%
High Voltage	1150	1089	1090	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.9	140.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.753	9.507	N/A	N/A	2.000	%
Temperature	15.50	25.53	12.30	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	47.70	13.60	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2

Master: Calibration out of date 20–Apr–2023 1:22 Before: Calibration out of date 13–Jun–2021 15:44

Coincidence Count Rate Ratio	1.000	0.9913	0.9527	N/A	N/A	0.05000	
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Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: Calibration out of date 31–Aug–2023 13:28

EDTC Z–Axis Acceleration	9.810	N/A	9.844	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration









Before: Calibration out of date 5–May–2022 2:10

Gamma Ray (Jig – Bkg)	113.7	N/A	113.7	N/A	N/A	10.34	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.4	N/A	N/A	15.00	GAPI









964

Before: 29-Jan-2024 21:52









Before: 29-Jan-2024 21:52

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68600	70000	82360	60900
1	Before		71870	70000	82360	60900
2	Before		73570	70000	82360	60900
3	Before		71780	70000	82360	60900
4	Before		69450	70000	82360	60900
5	Before		69960	70000	82360	60900
6	Before		-68270	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						





Before: 29-Jan-2024 21:52

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68690	70000	82360	60900
1	Before		72070	70000	82360	60900
2	Before		73760	70000	82360	60900
3	Before		71910	70000	82360	60900
4	Before		69570	70000	82360	60900
5	Before		70050	70000	82360	60900
6	Before		-68480	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						

Before: 29-Jan-2024 21:52

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68550	70000	82360	60900
1	Before		71930	70000	82360	60900
2	Before		73630	70000	82360	60900
3	Before		71780	70000	82360	60900
4	Before		69470	70000	82360	60900
5	Before		69930	70000	82360	60900
6	Before		-68330	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						

Before: 29-Jan-2024 21:52

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68110	-70000	-60900	-82360
1	Before		-71760	-70000	-60900	-82360
2	Before		-73490	-70000	-60900	-82360
3	Before		-71760	-70000	-60900	-82360

Before: 29-Jan-2024 21:52

Before: 29-Jan-2024 21:52

Before: 29-Jan-2024 21:52

Before: 29-Jan-2024 21:52

Hostile Litho–Density Sonde / Equipment Identification

Primary Equipment:

Gamma Source Radioactive
Hostile Litho Density Sonde
Hostile Litho Density High Voltage

GSR – ZA 2945
HLDS – D 77
HLDV – D 67

Auxiliary Equipment:

Hostile Litho Density High Voltage Housi
Hostile Litho Density Pad

HEH – H 67
HLDP – C 83

Hostile Litho–Density Sonde Wellsite Calibration

Background Measurement

SS Cs Resolution Bkg %			Value	Phase	LS Cs Resolution Bkg %			Value	Phase	LSW1 Background CPS			Value							
Master	<div><div></div></div>		7.792	Master	<div><div></div></div>		8.029	Master	<div><div></div></div>		67.89									
Before	<div><div></div></div>		7.773	Before	<div><div></div></div>		8.178	Before	<div><div></div></div>		67.13									
7.000 (Minimum)			9.000 (Nominal)	11.00 (Maximum)			7.000 (Minimum)			9.000 (Nominal)	11.00 (Maximum)			55.00 (Minimum)			100.0 (Nominal)	150.0 (Maximum)		
LSW2 Background CPS			Value	Phase	LSW3 Background CPS			Value	Phase	LSW4 Background CPS			Value							
Master	<div><div></div></div>		60.22	Master	<div><div></div></div>		137.9	Master	<div><div></div></div>		171.3									
Before	<div><div></div></div>		60.52	Before	<div><div></div></div>		137.3	Before	<div><div></div></div>		171.3									
50.00 (Minimum)			100.0 (Nominal)	140.0 (Maximum)			110.0 (Minimum)			200.0 (Nominal)	290.0 (Maximum)			140.0 (Minimum)			250.0 (Nominal)	360.0 (Maximum)		
LSW5 Background CPS			Value	Phase	SSW1 Background CPS			Value	Phase	SSW2 Background CPS			Value							
Master	<div><div></div></div>		402.6	Master	<div><div></div></div>		65.12	Master	<div><div></div></div>		111.7									
Before	<div><div></div></div>		400.5	Before	<div><div></div></div>		64.84	Before	<div><div></div></div>		112.8									
330.0 (Minimum)			600.0 (Nominal)	830.0 (Maximum)			55.00 (Minimum)			100.0 (Nominal)	150.0 (Maximum)			100.0 (Minimum)			200.0 (Nominal)	260.0 (Maximum)		
SSW3 Background CPS			Value	Phase	SSW4 Background CPS			Value	Phase	SSW5 Background CPS			Value							
Master	<div><div></div></div>		311.0	Master	<div><div></div></div>		168.2	Master	<div><div></div></div>		121.1									
Before	<div><div></div></div>		310.6	Before	<div><div></div></div>		167.1	Before	<div><div></div></div>		120.4									
280.0 (Minimum)			500.0 (Nominal)	700.0 (Maximum)			150.0 (Minimum)			270.0 (Nominal)	380.0 (Maximum)			110.0 (Minimum)			200.0 (Nominal)	270.0 (Maximum)		
Master: 15-Dec-2023 13:21										Before: 23-Dec-2023 2:40										

Litho–Density Spectroscopy Cartridge – B / Equipment Identification

Primary Equipment:

LDSC Cartridge

LDSC – B 521

Auxiliary Equipment:

LDSC Housing

LDSH – A 319

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge

HNGC – B 300

Auxiliary Equipment:

HNGC Housing

HNGH – A 115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde

HNGS – BA 177

Auxiliary Equipment:

HNGS Sonde Housing
Gamma Source Radioactive

HNSH – BA 174
GSR – U 135













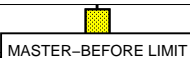
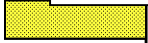
Hostile Natural Gamma Ray Sonde Wellsite Calibration



Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master	<div><div></div><div>MASTER-BEFORE LIMIT</div></div>	38.56	Master	<div><div></div></div>	16.82	Master	<div><div></div></div>	1206
Before	<div><div></div></div>	39.64	Before	<div><div></div></div>	14.84	Before	<div><div></div></div>	1168
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master	<div><div></div></div>	139.2	Master	<div><div></div></div>	9.087	Master	<div><div></div></div>	26.64
Before	<div><div></div></div>	143.3	Before	<div><div></div></div>	7.709	Before	<div><div></div></div>	11.69
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master	<div><div></div><div>MASTER-BEFORE LIMIT</div></div>	47.40						
Before	<div><div></div></div>	12.89						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: Calibration out of date 20-Apr-2023 1:22			Before: Calibration out of date 13-Jun-2021 15:44					

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Detector 2 Check																
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value					
Master			39.72	Master			15.41	Master			1089					
Before			39.51	Before			15.27	Before			1090					
37.50 (Minimum)			40.00 (Nominal)	43.50 (Maximum)			12.00 (Minimum)			15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)			1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value					
Master			142.9	Master			8.753	Master			25.53					
Before			140.8	Before			9.507	Before			12.30					
135.0 (Minimum)			142.6 (Nominal)	150.3 (Maximum)			7.000 (Minimum)			8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)			15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS		Value													
Master			47.70													
Before			13.60													
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)				
Master: Calibration out of date 20-Apr-2023 1:22 Before: Calibration out of date 13-Jun-2021 15:44																

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9913
Before		0.9527
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	
Master: Calibration out of date 20-Apr-2023 1:22		
Before: Calibration out of date 13-Jun-2021 15:44		

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector
Enhanced DTS Cartridge

EDTG – A/B
EDTC – B


77693
8529

Auxiliary Equipment:

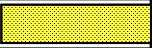


EDTC Housing

EDTH – B

8528

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.844
	9.640 (Minimum) 9.840 (Nominal) 10.040 (Maximum)	

9.810 (Minimum)	9.810 (Nominal)	10.01 (Maximum)
Before: Calibration out of date 31-Aug-2023 13:28		

Enhanced DTS Cartridge Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig – Bkg) GAPI		Value	Phase	Gamma Ray (Calibrated) GAPI		Value
Before			1.417	Before			113.7	Before			165.4
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		103.4 (Minimum)	113.7 (Nominal)	124.1 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)
Before: Calibration out of date 5-May-2022 2:10											

Company:	International Ocean Discovery Program	Schlumberger
Well:	Expedition 401, Site U1611A	
Field:	Mediterranean–Atlantic Gateway Exchange	
Rig:	JOIDES Resolution	
Country:	Spain	
HNGS, HLDS, HRLA, MSS Gamma, Density, Resistivity, Mag		