

Schlumberger

Company: **International Ocean Discovery Program**

Well: **Expedition 401, Site U1609A**

Field: **Mediterranean–Atlantic Gateway Exchange**

Rig: **JOIDES Resolution** Country: **Portugal**

Well: **Expedition 401, Site U1609A**
Field: **Mediterranean–Atlantic Gateway Exchange**
Rig: **JOIDES Resolution** Country: **Portugal**

Rig: JOIDES Resolution Field: Mediterranean-Atlantic Gateway Location: Latitude: N 37° 22.6259' Well: Expedition 401, Site U1609A Company: International Ocean Discovery Program	HNGS, HLDS, HRLA, MSS Gamma, Density, Resistivity, Mag			
	LOCATION	Latitude: N 37° 22.6259' Longitude: W 09° 35.9120'		Elev.: K.B. 0.00 m G.L. -1670.50 m D.F. 0.00 m
		Permanent Datum: <u>Sea Floor</u> Log Measured From: <u>Rig Floor</u> Drilling Measured From: <u>Rig Floor</u>		Elev.: <u>-1670.50 m</u> 1670.50 m above Perm. Datum
		Ocean: Atlantic Ocean	Max. Well Deviation 0 deg	Longitude W 09° 35.9120'

Ocean:	Max. Well Deviation	Longitude	Latitude
Atlantic Ocean	0 deg	W 09° 35.9120'	N 37° 22.6259'

Logging Date		23-Dec-2023			
Run Number		1			
Depth Driller		2280.7 ft			
Schlumberger Depth		2276 ft			
Bottom Log Interval		693.725 m			
Top Log Interval		1660 ft			
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	0.321 @ 9	@ 9	@	@
Maximum Recorded Temperatures		9 degC			
Circulation Stopped		Time	22-Dec-2023	21:00	
Logger On Bottom		Time	23-Dec-2023	12:15	
Unit Number	Location	627314	Larose, LA		
Recorded By		K. Garrett			
Witnessed By		B. Rhinehart			

[illegible]





Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth		@	
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
MUD	Density	Viscosity	
	Fluid Loss	PH	
	Source Of Sample		
RM @ Measured Temperature		@	
RMF @ Measured Temperature		@	
RMC @ Measured Temperature		@	
Source RMF	RMC		
RM @ MRT	RMF @ MRT	@	@
Maximum Recorded Temperatures			
Circulation Stopped		Time	
Logger On Bottom		Time	
Unit Number		Location	
Recorded By			
Witnessed By			

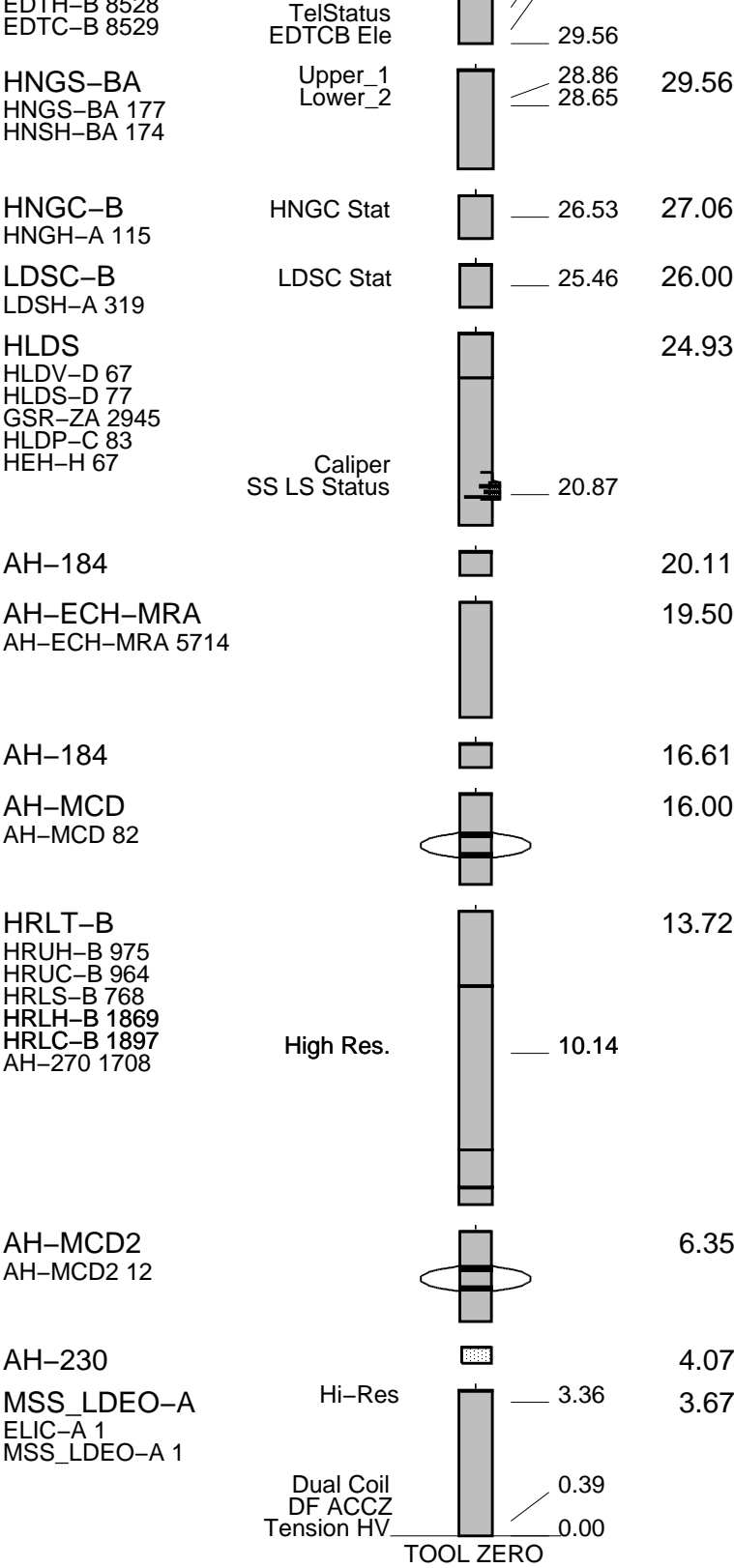
Run 4

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 XCB bottom hole assembly (BHA) using bit at 9.875" BS					
TD (Driller) 2280.7mbrf					
Drill pipe set at 1726.5m					
On the down log the drill pipe was set at 1726.5m.					
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 is having tech issues and currently being repaired.					
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

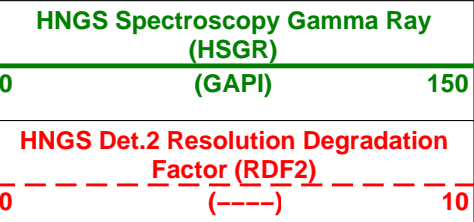
Company: International Ocean Discovery ProgramWell: Expedition 401, Site U1609A

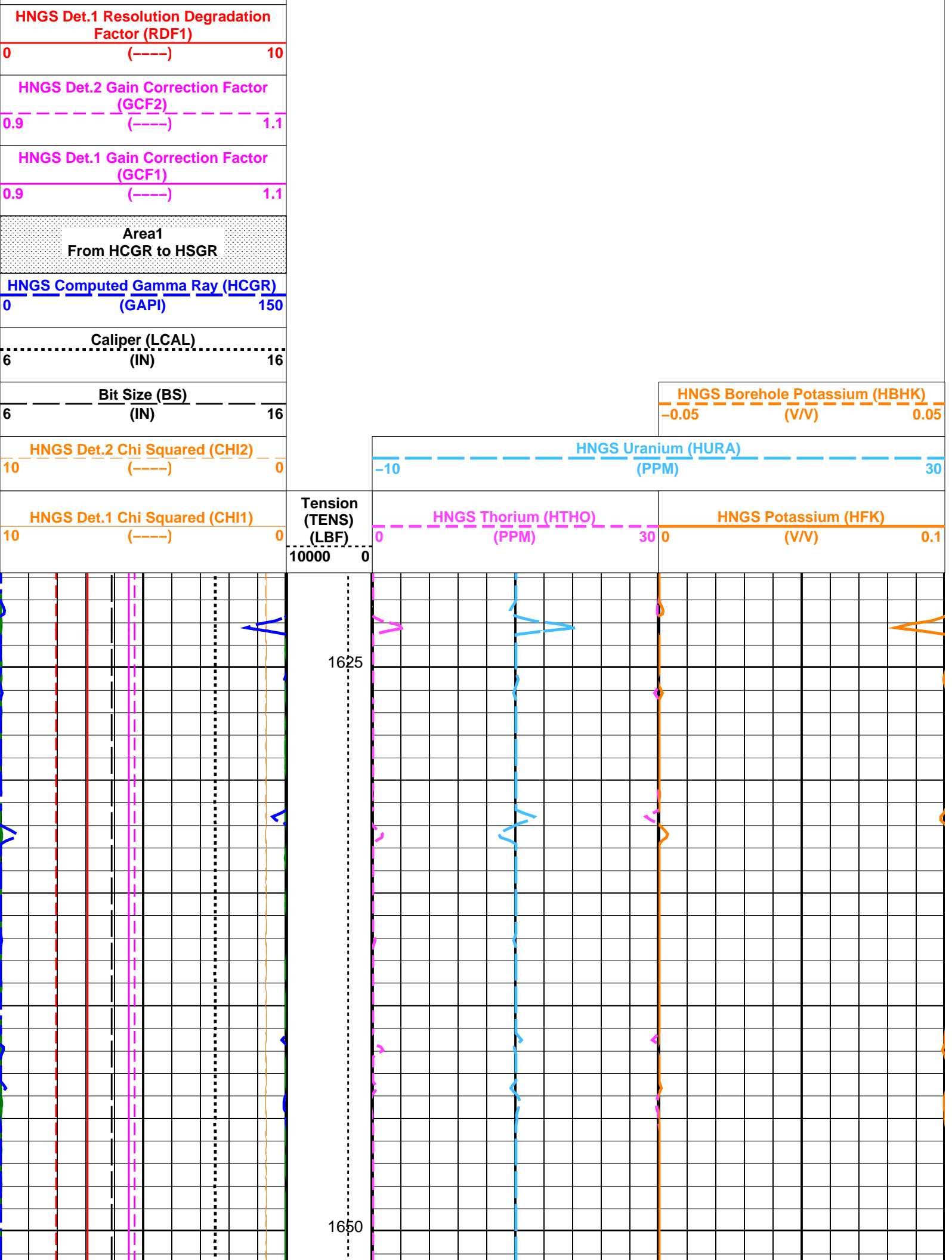
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DEFAULTFlip_MSS_LDEO_HRLA_016LUPPRODUCER23-Dec-2023 05:56

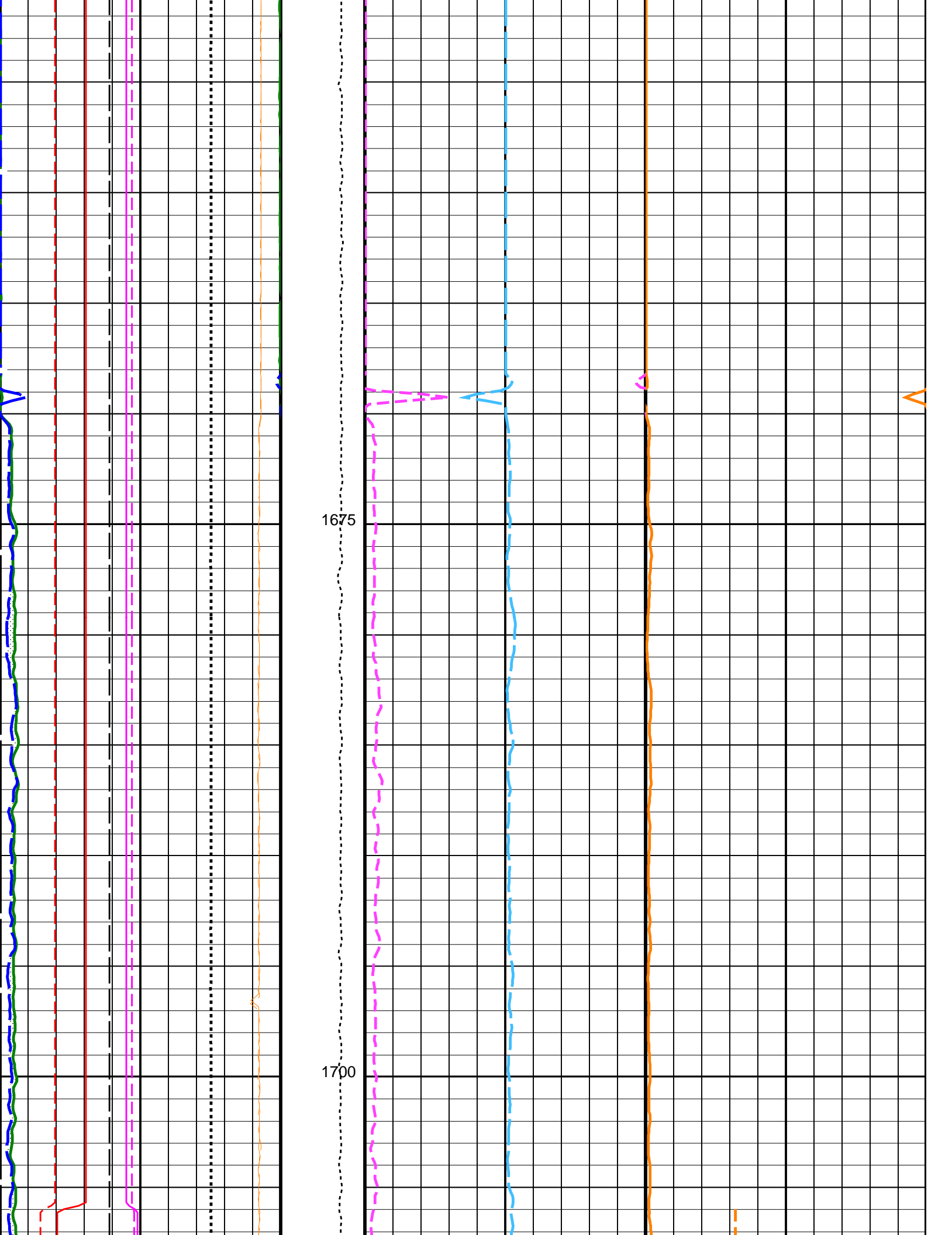
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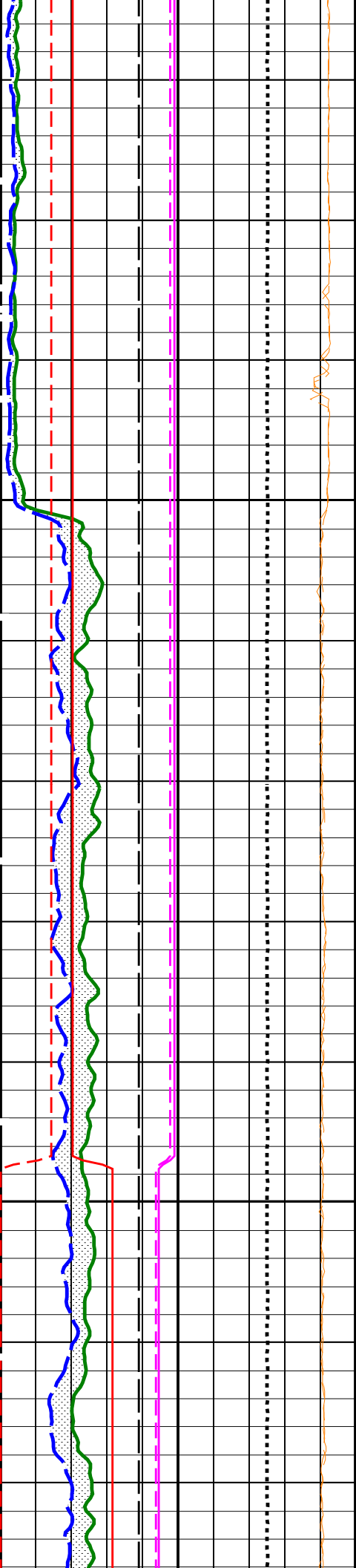
OP System Version: 19C0-187
MSS_LDEO-A19C0-187HRLT-B19C0-187
HLDS19C0-187LDSC-B19C0-187
HNGC-B19C0-187HNGS-BA19C0-187
EDTC-B19C0-187

PIP SUMMARY
Time Mark Every 60 S



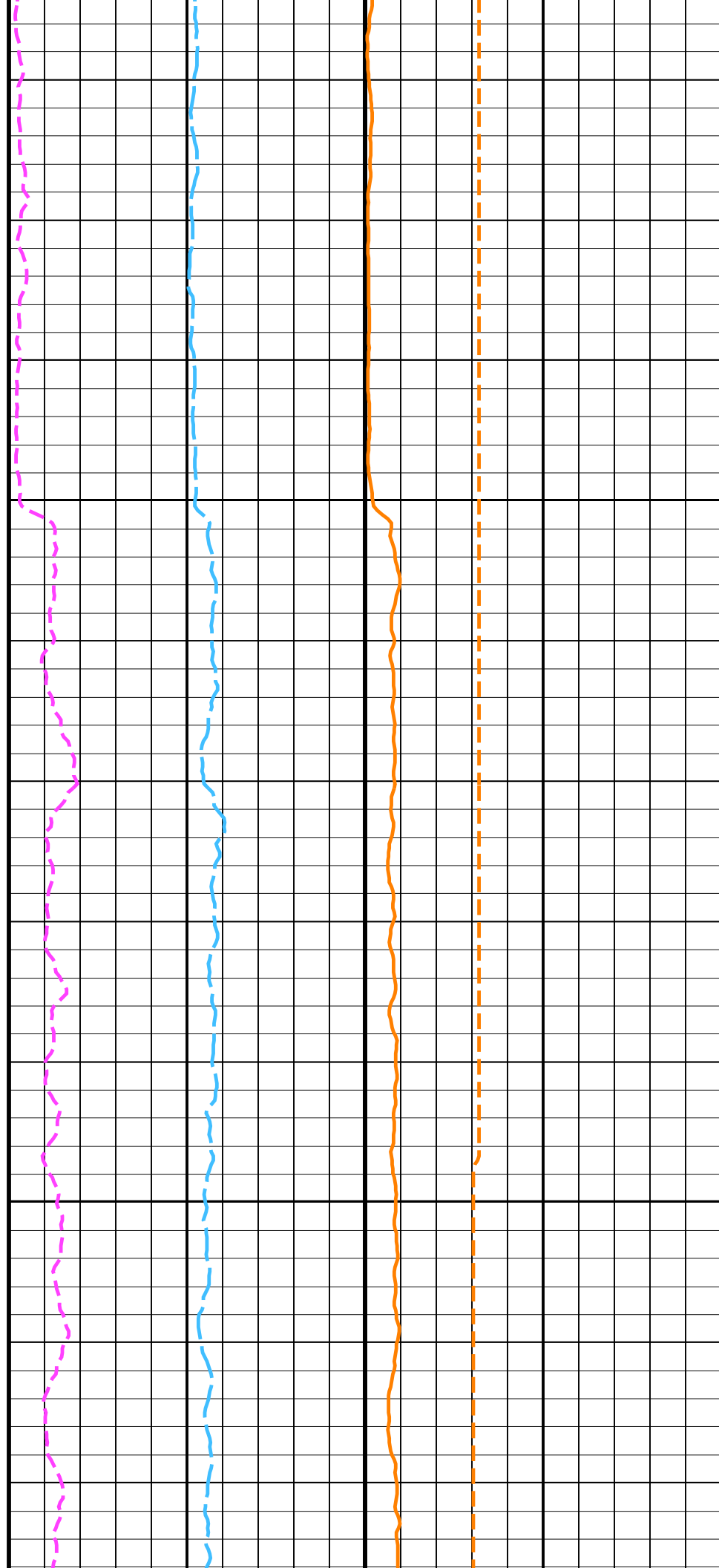


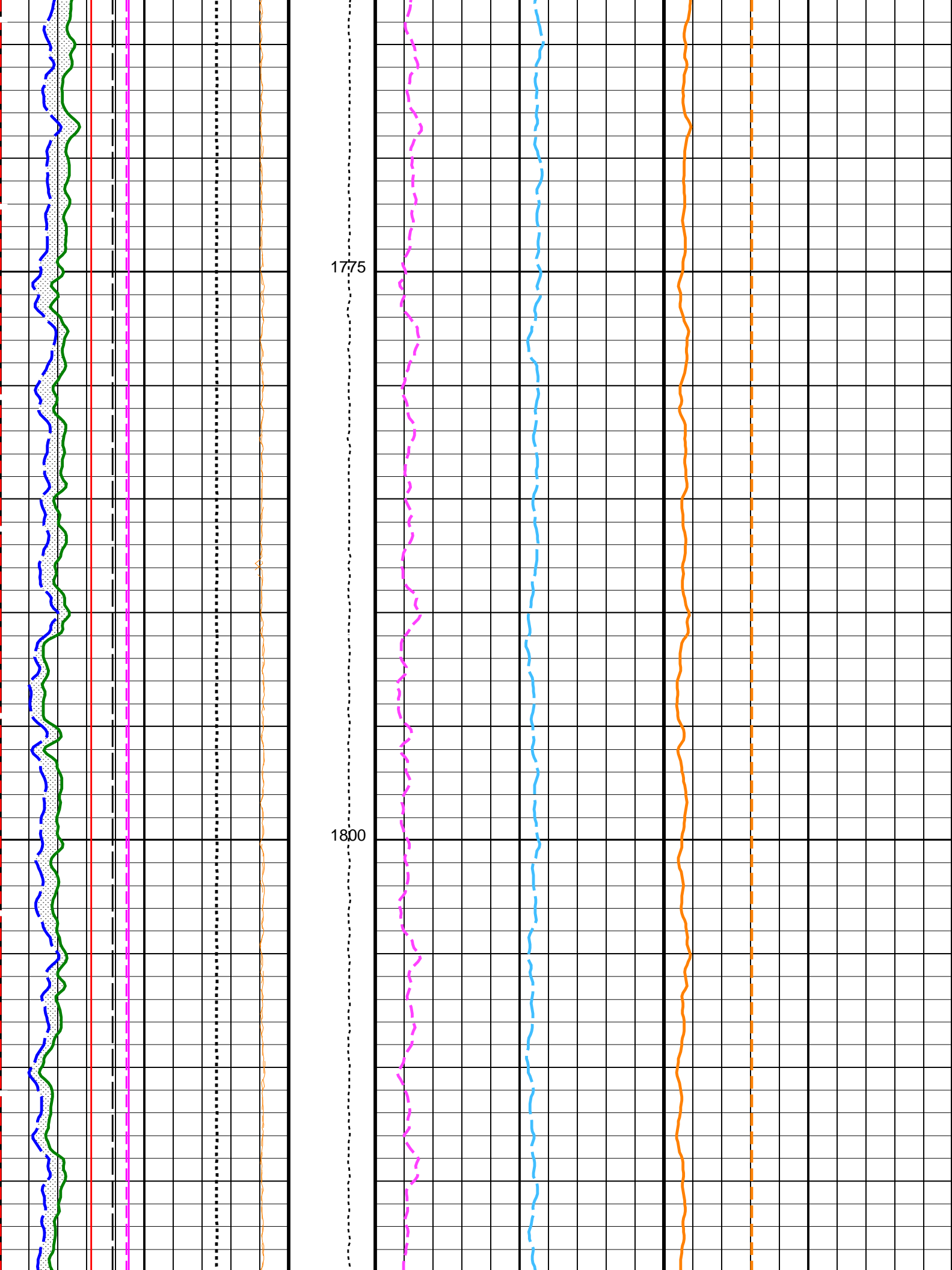


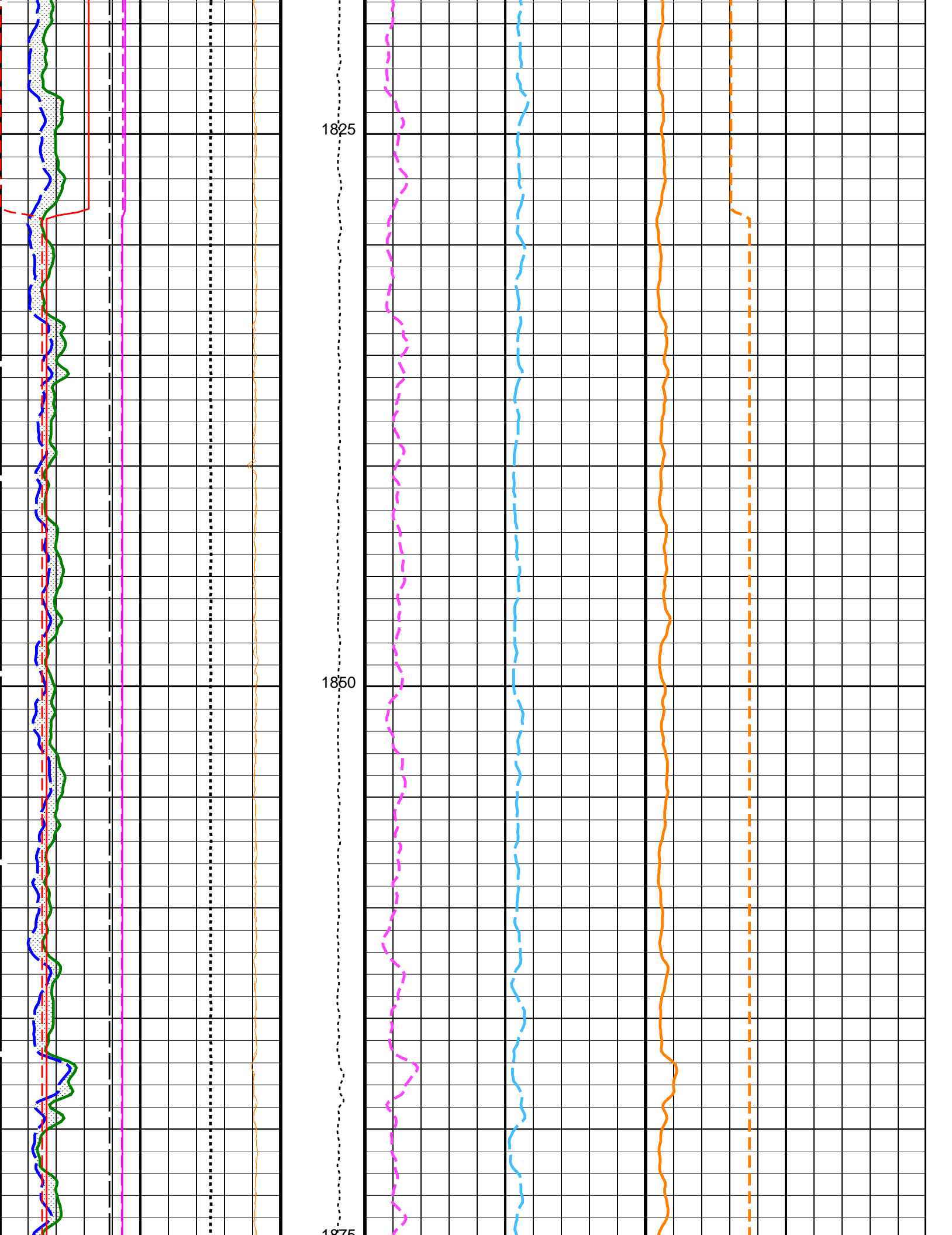


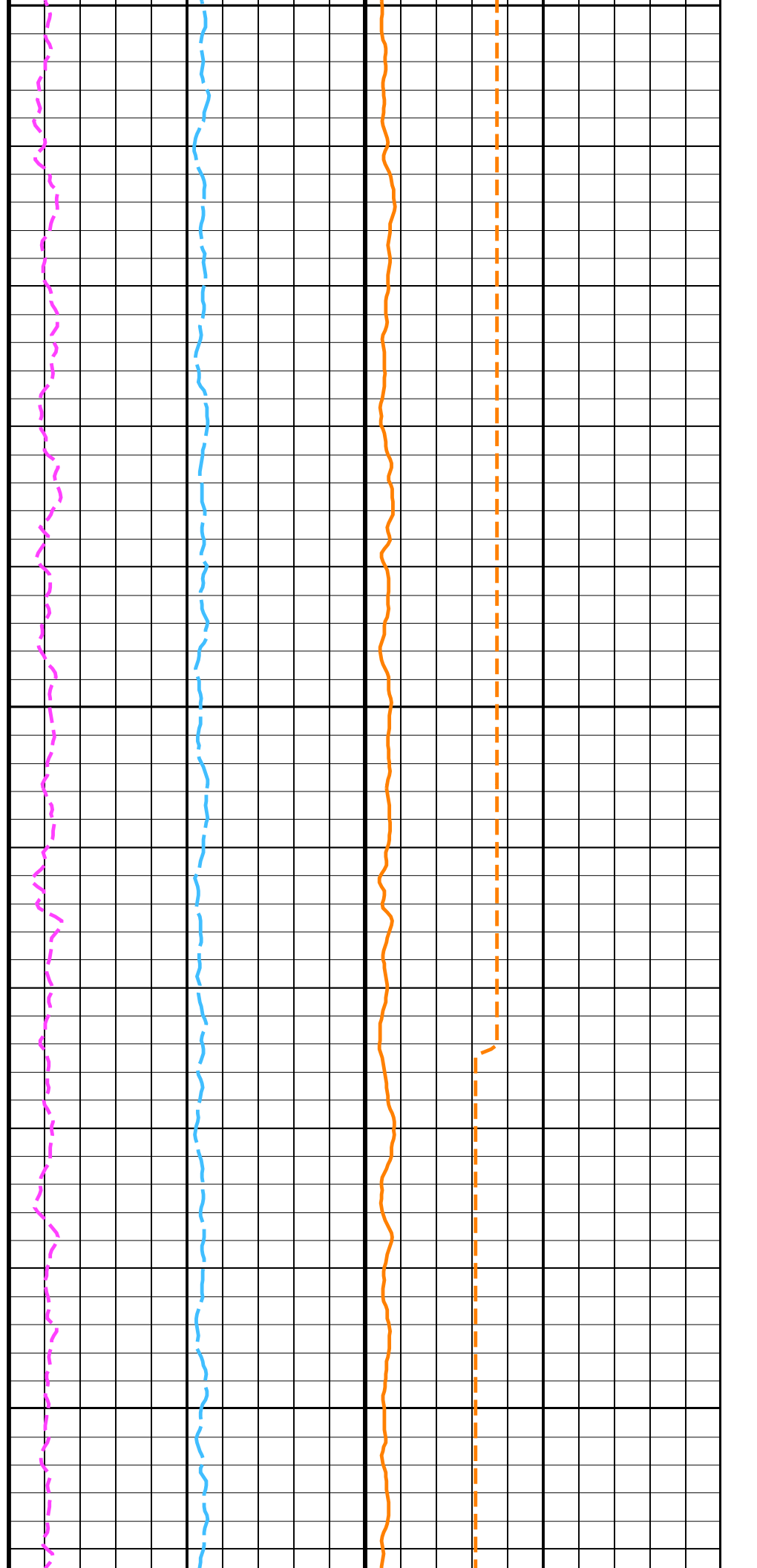
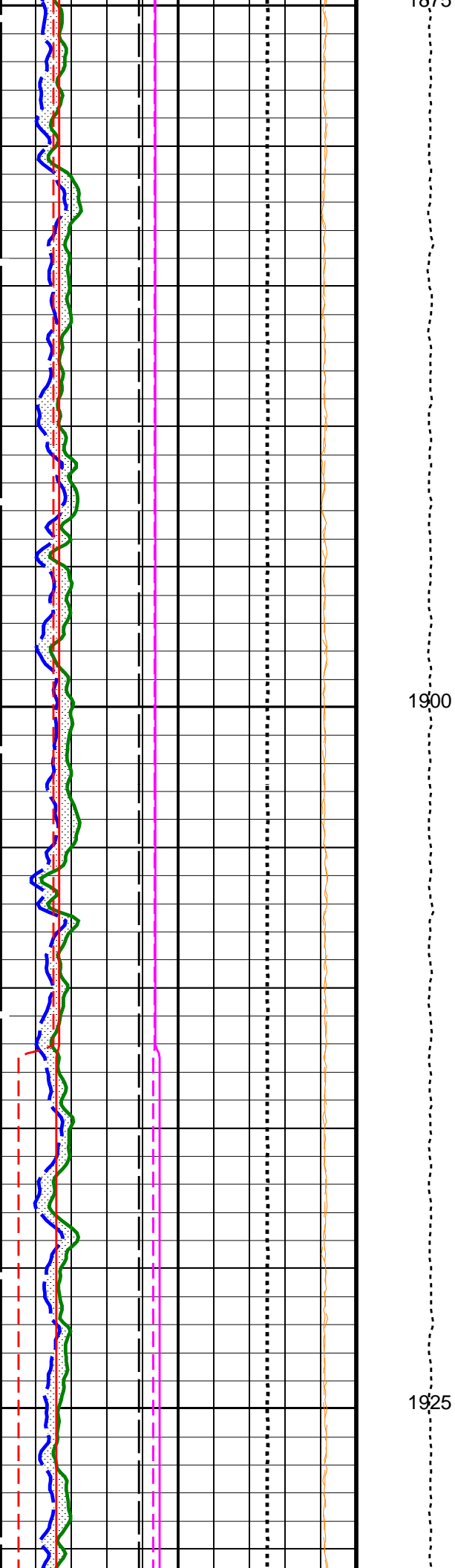
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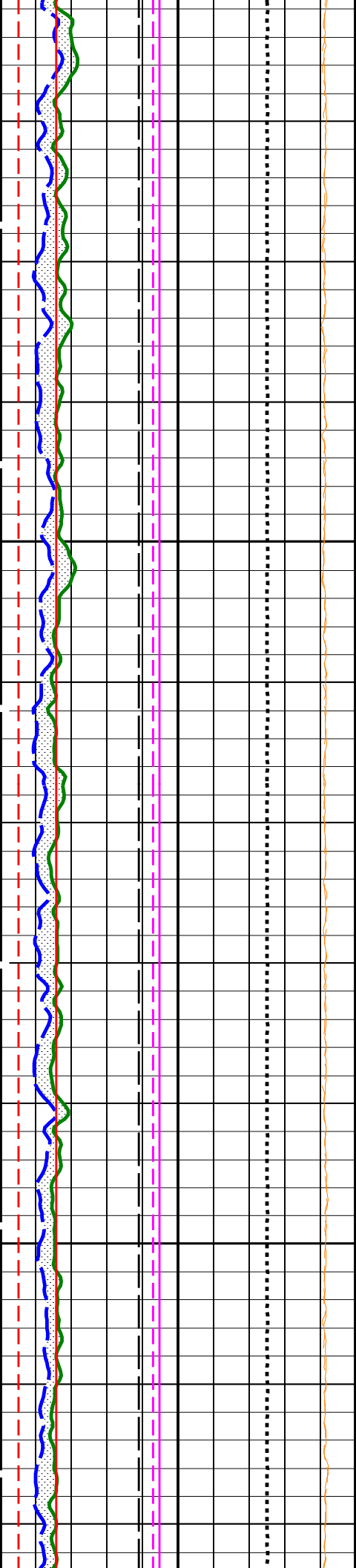
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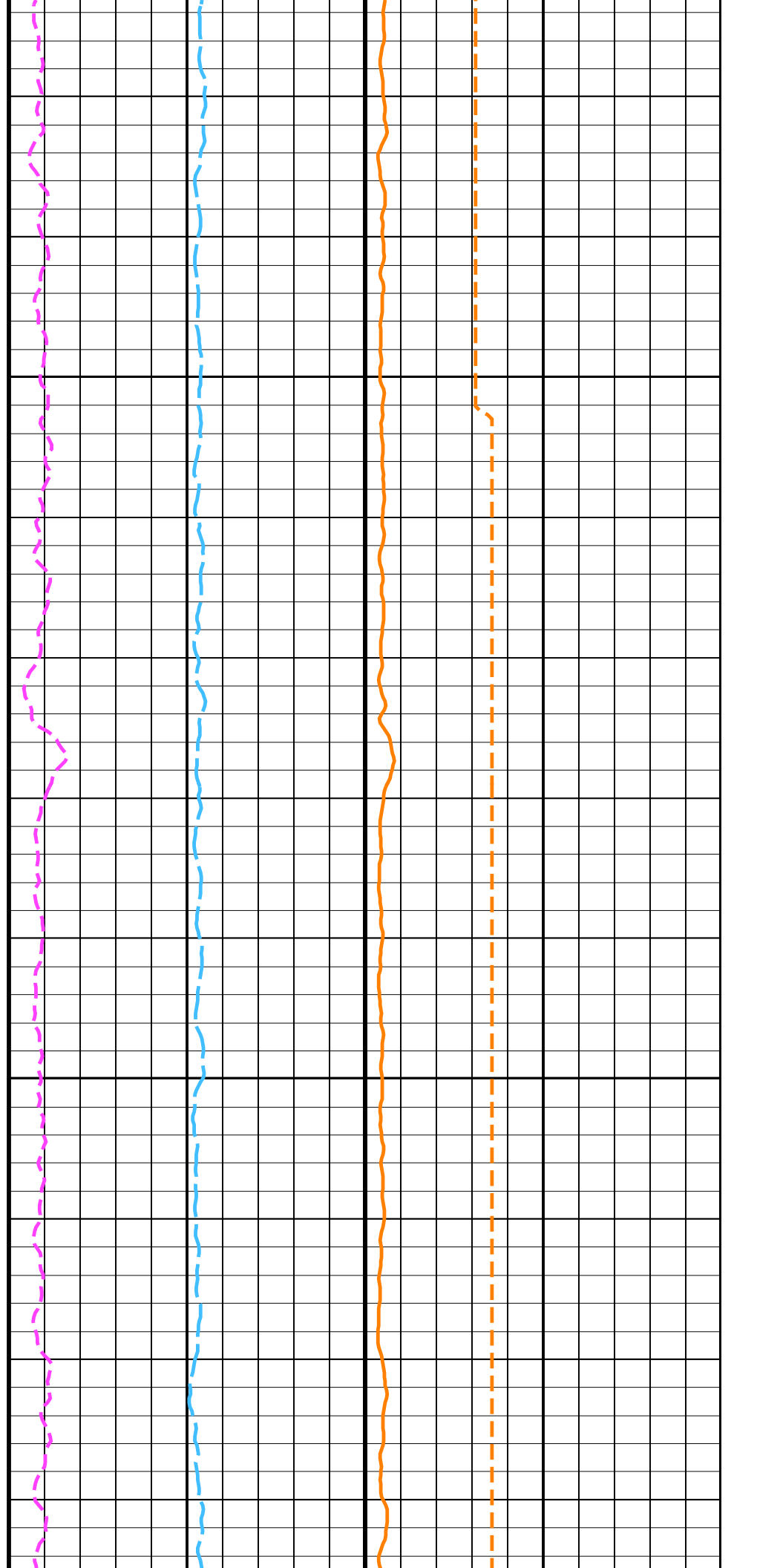
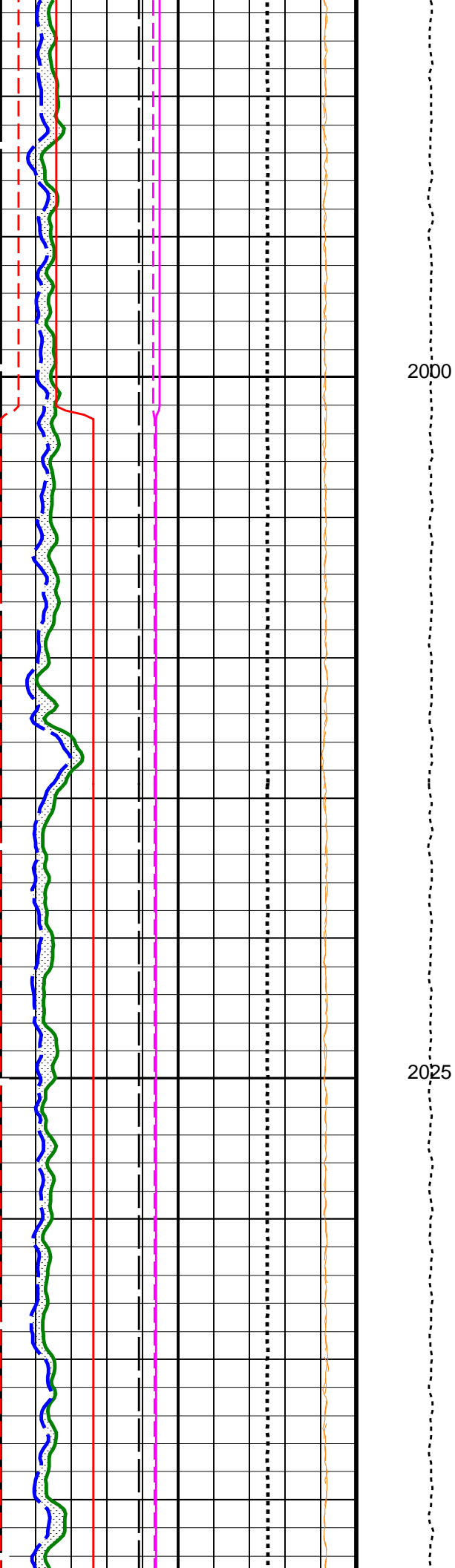


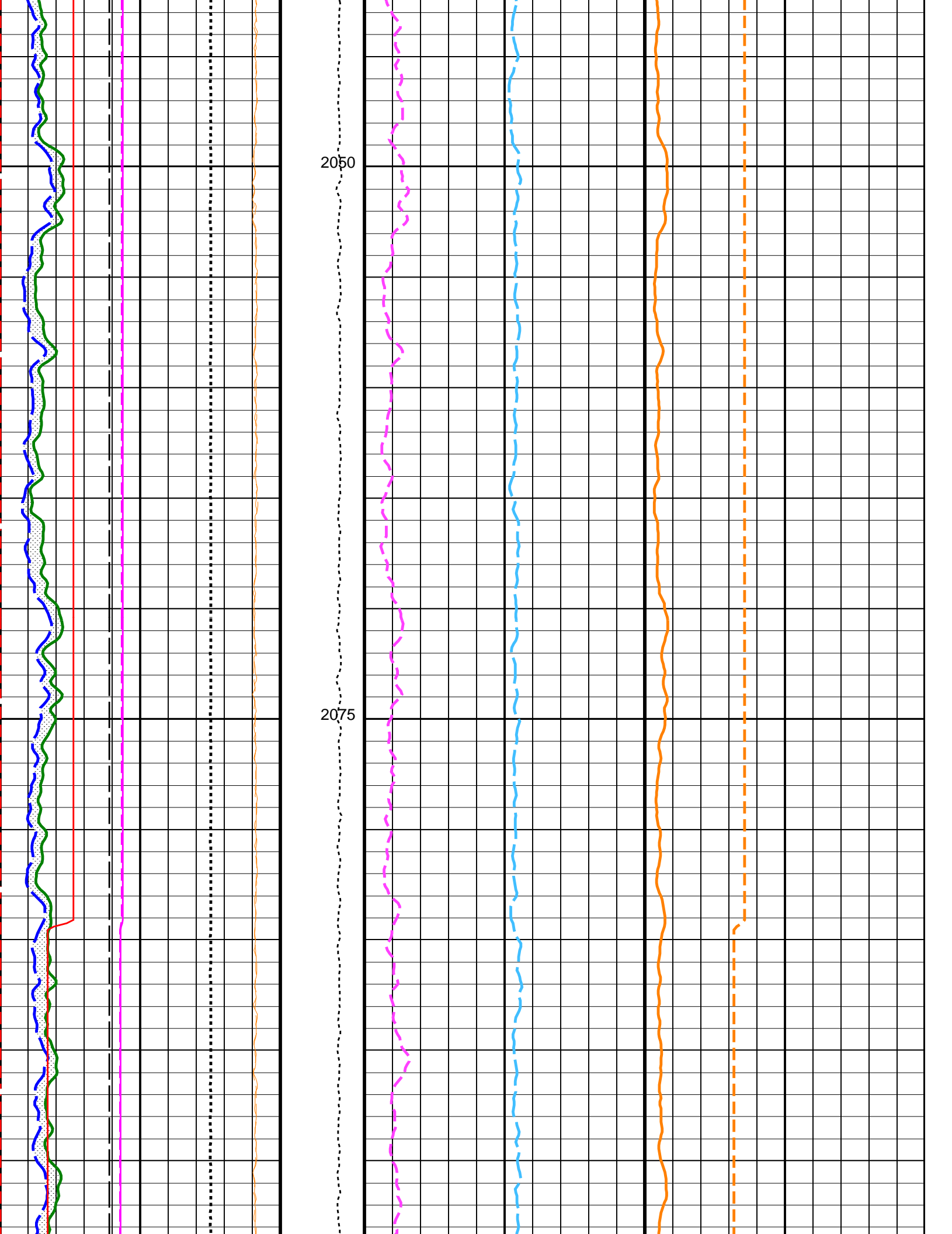


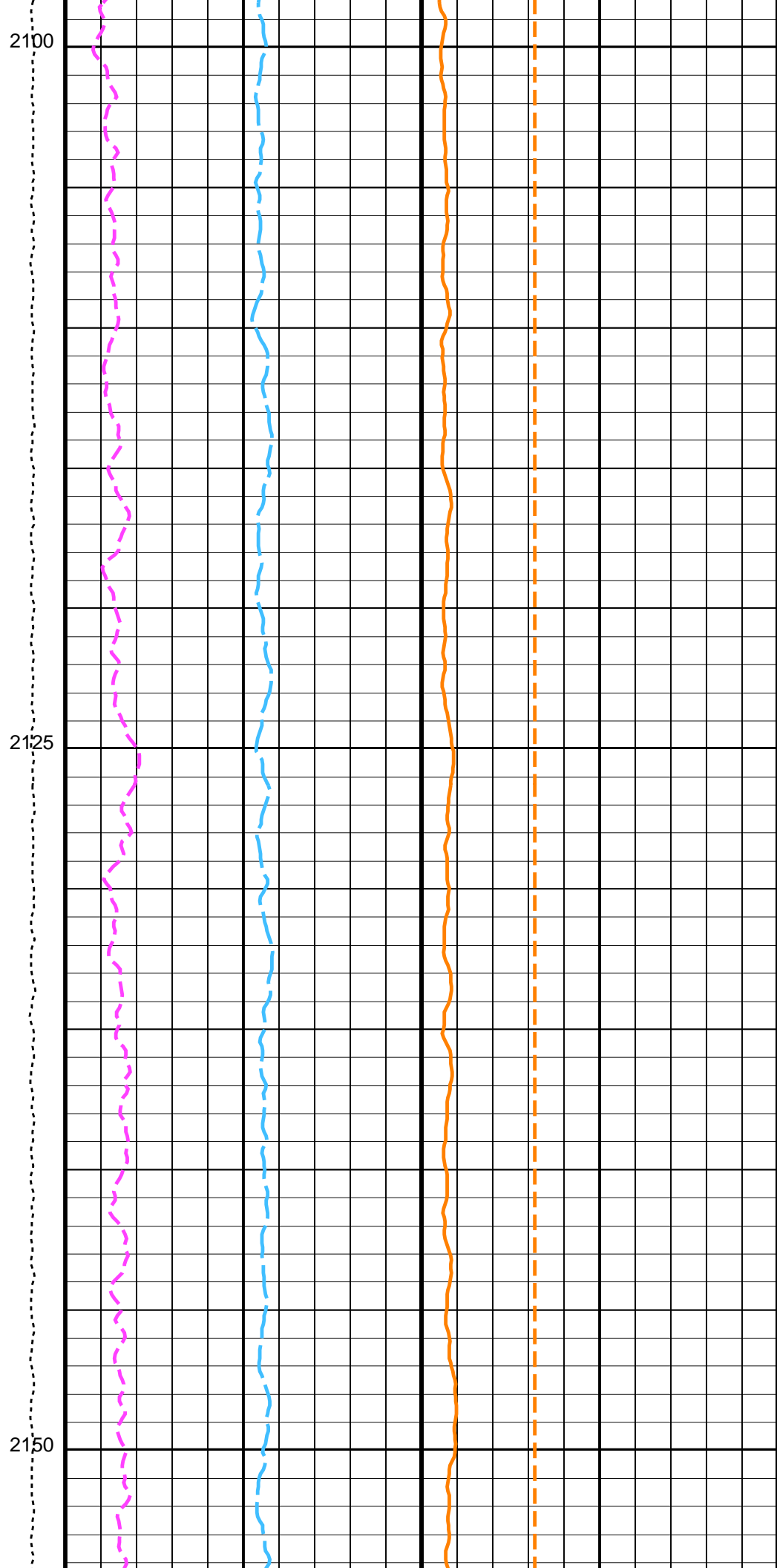
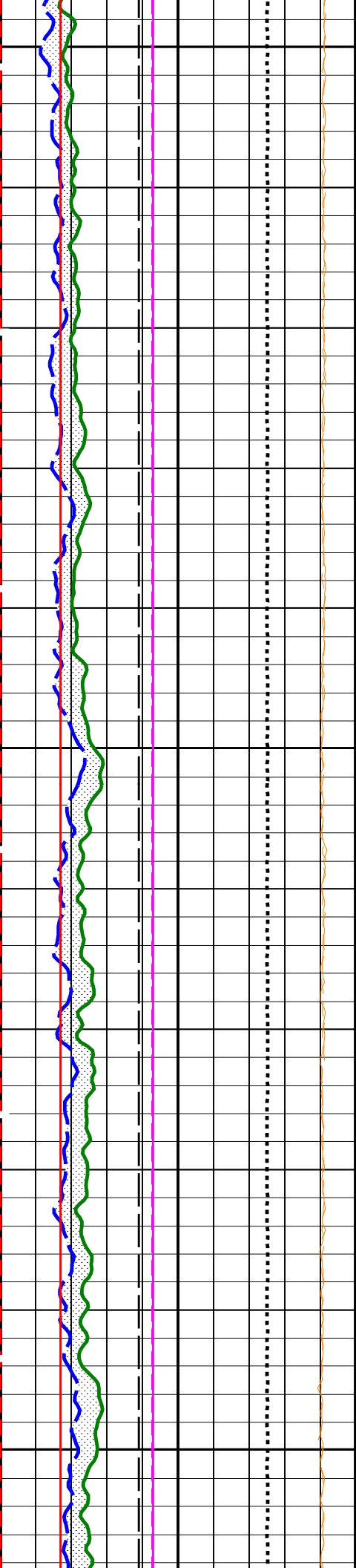
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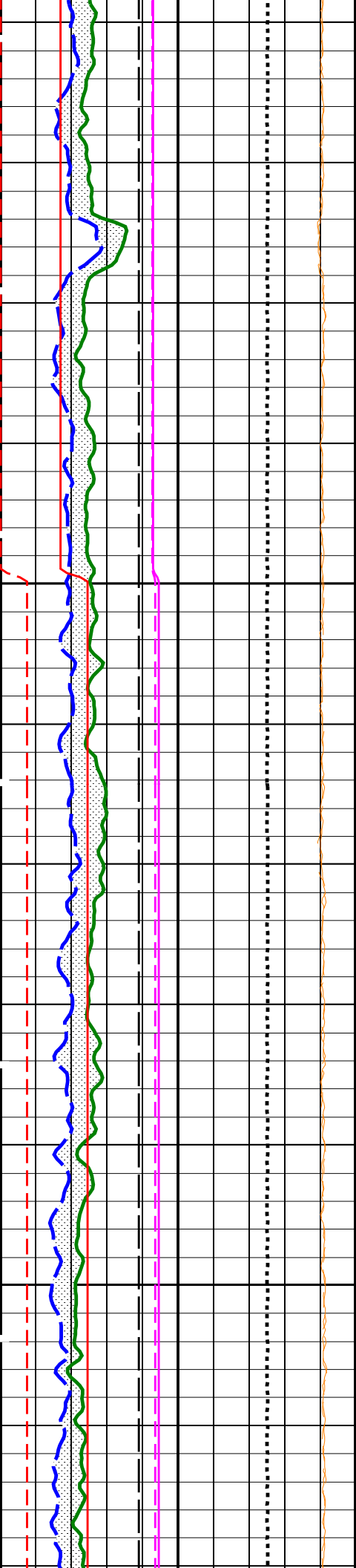
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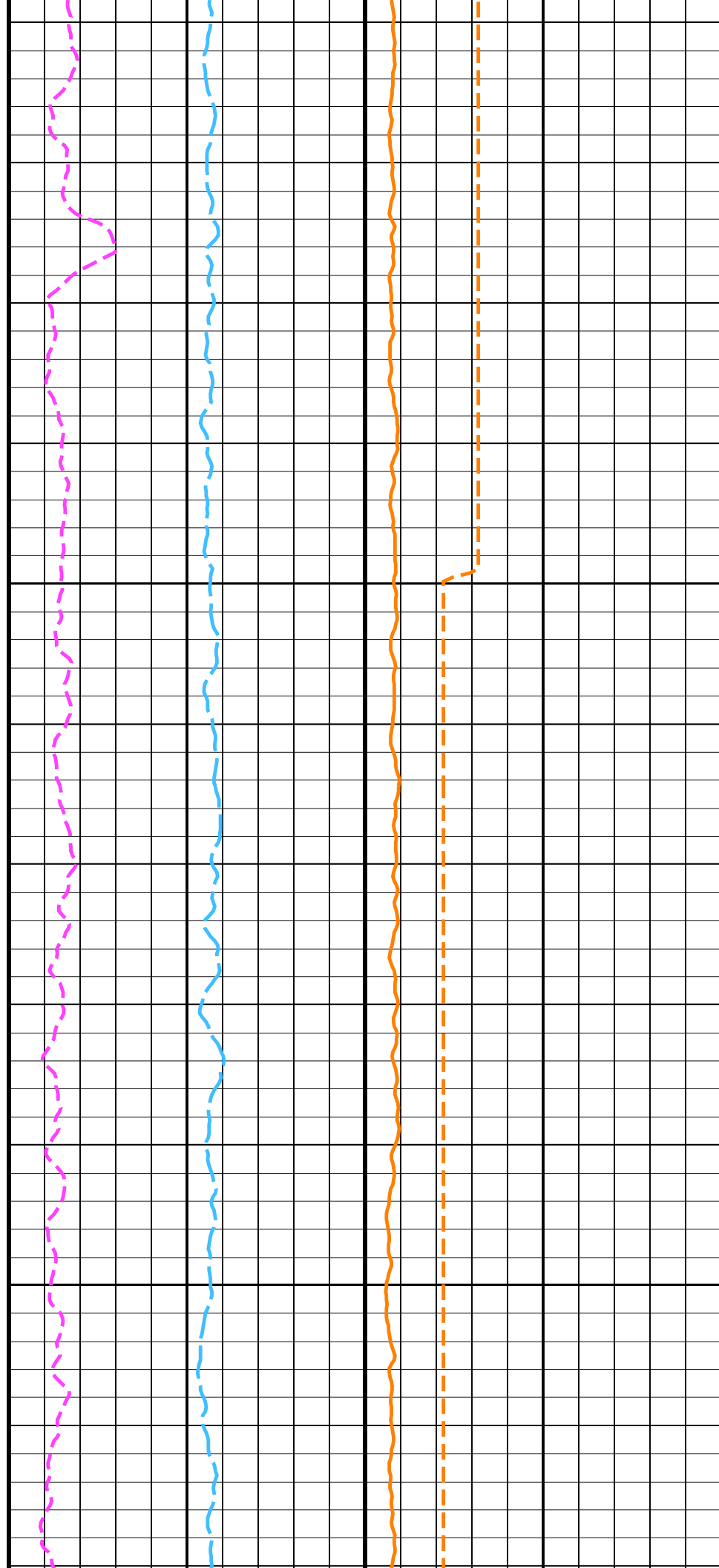


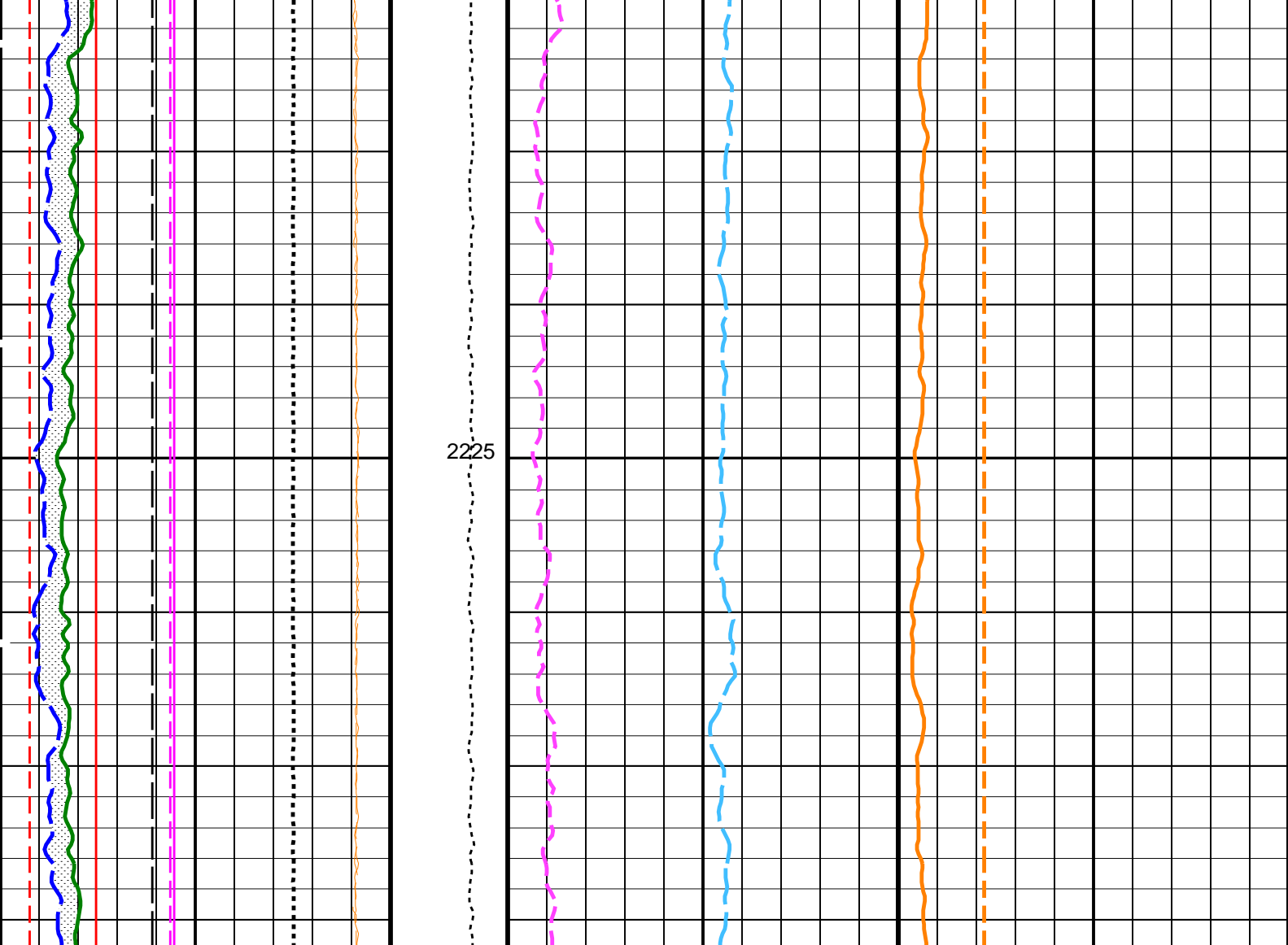




2175

2200





HNGS Det.1 Chi Squared (CHI1) (-----) 0 10		Tension (TENS) (LBF) 10000 0	HNGS Thorium (HTHO) (PPM) 0 30		HNGS Potassium (HFK) (V/V) 0 0.1	
HNGS Det.2 Chi Squared (CHI2) (-----) 0 10			HNGS Uranium (HURA) (PPM) -10 30			
Bit Size (BS) (IN) 6 16			HNGS Borehole Potassium (HBHK) (V/V) -0.05 0.05			
Caliper (LCAL) (IN) 6 16						
HNGS Computed Gamma Ray (HCGR) (GAPI) 0 150						
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
CSD2	Outer Casing Outer Diameter	0
CSW1	Inner Casing Weight	0
CSW2	Outer Casing Weight	0
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	-0.0338331
HALF	HNGS Alpha Filter Length	60
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
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.04807
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.968602
EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
System and Miscellaneous		
BS	Bit Size	9.875
DFD	Drilling Fluid Density	9.00
DO	Depth Offset for Playback	0.0
PP	Playback Processing	NORMAL

Format: HNGSYields	Vertical Scale: 1:200	Graphics File Created: 24-Dec-2023 15:07
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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		

Input DLIS Files			
DEFAULT	Flip_MSS_LDEO_HRLA_016LUP	PRODUCER	23-Dec-2023 05:56
Output DLIS Files			
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Company: International Ocean Discovery Program		Well: Expedition 401, Site U1609A
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Input DLIS Files			
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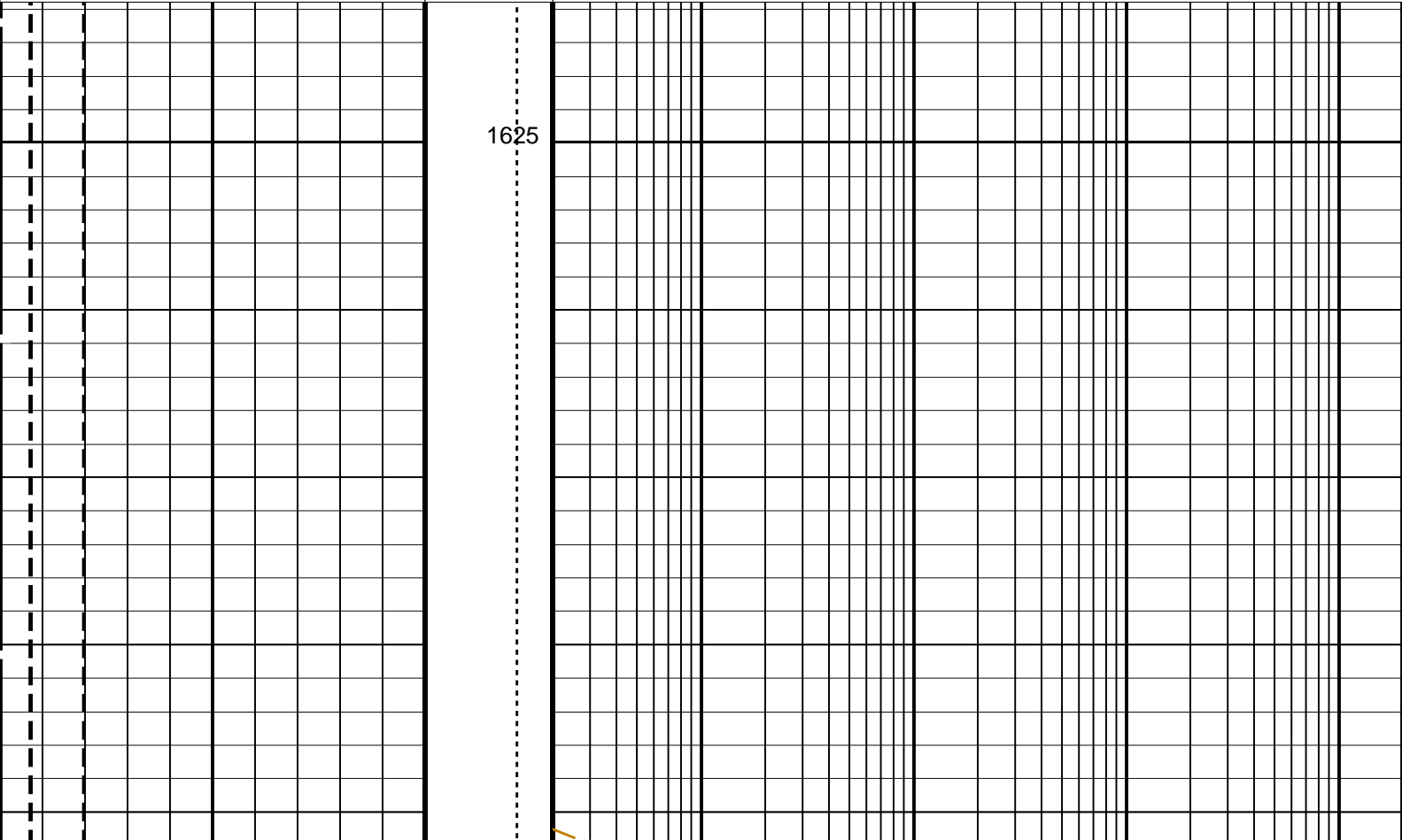
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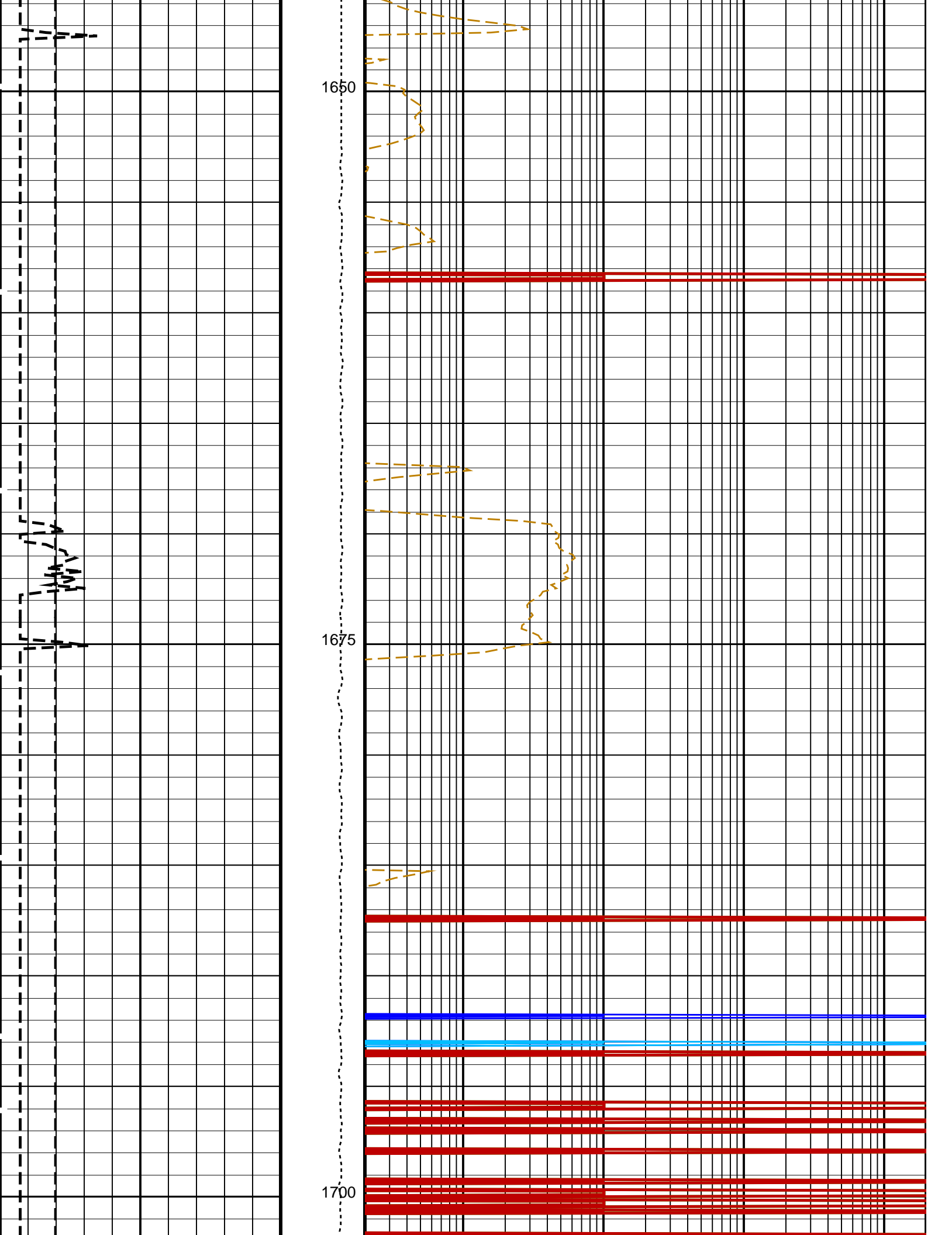
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

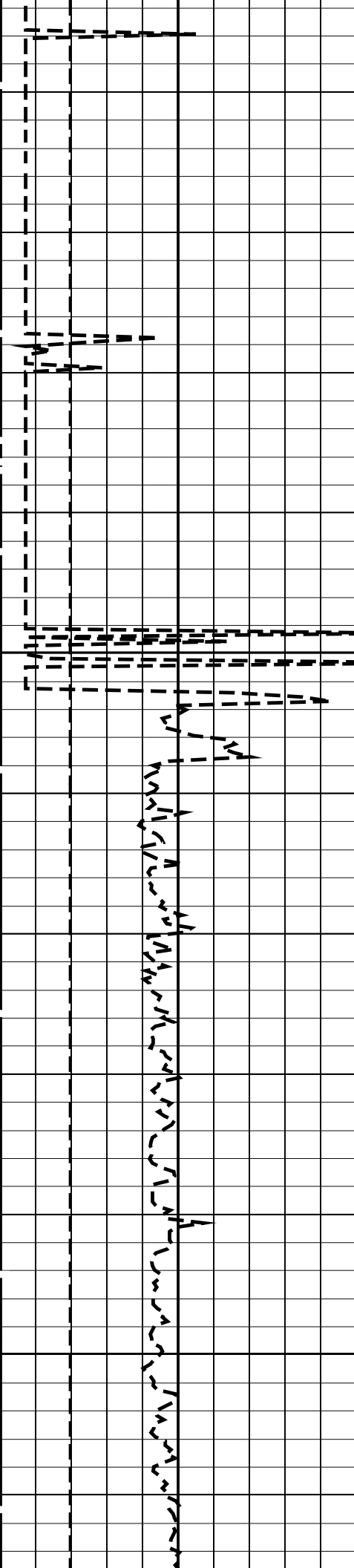
PIP SUMMARY

 Time Mark Every 60 S

<div><div>Invasion Diameter (DI_HRLT) (IN)</div><div>050</div></div> <div><div>Bit Size (BS) (IN)</div><div>626</div></div> <div><div>Tension (TENS) (LBF)</div><div>100000</div></div>		HRLT True Resistivity (RT_HRLT)	
		HRLT Resistivity 5 (RLA5)	
		HRLT Resistivity 4 (RLA4)	
		HRLT Resistivity 3 (RLA3)	
		HRLT Resistivity 2 (RLA2)	
		HRLT Resistivity 1 (RLA1)	

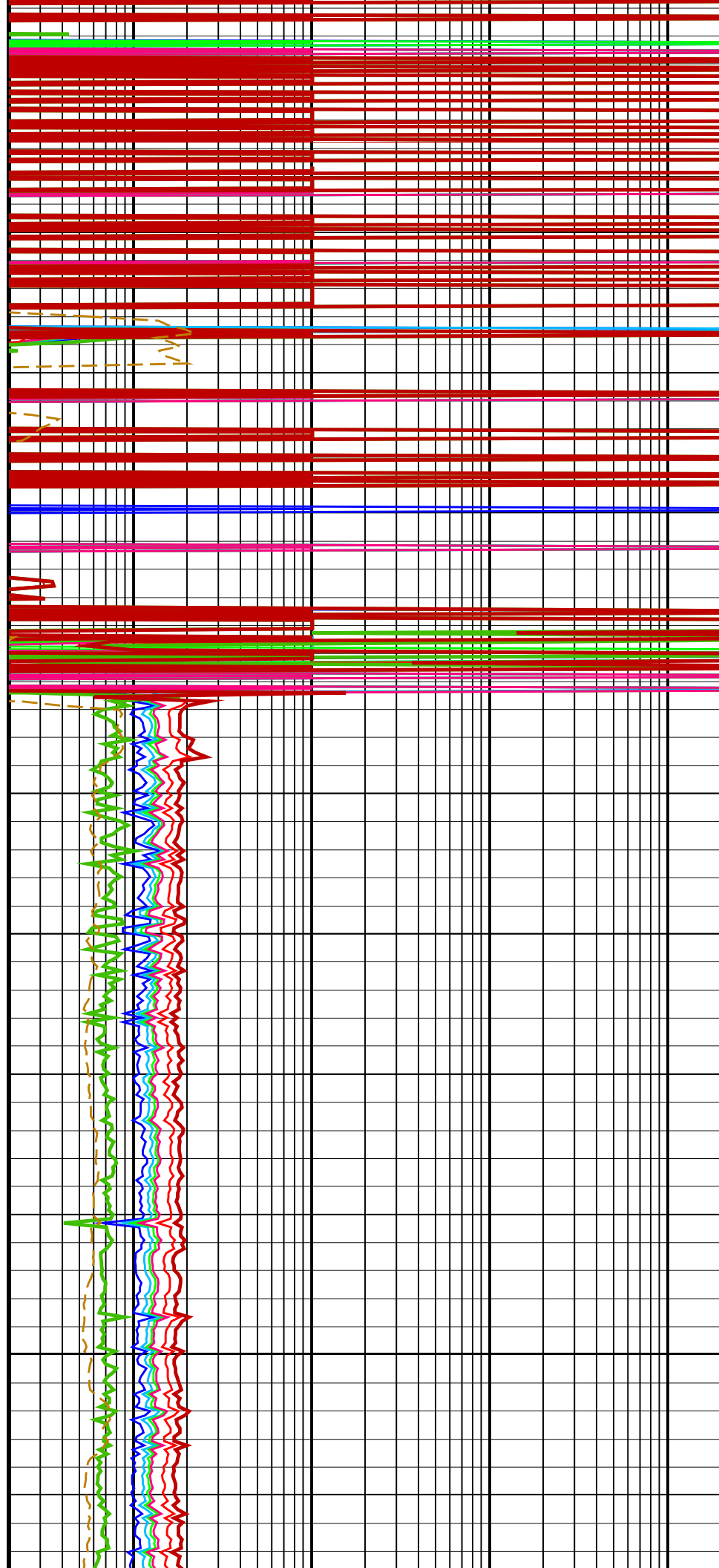


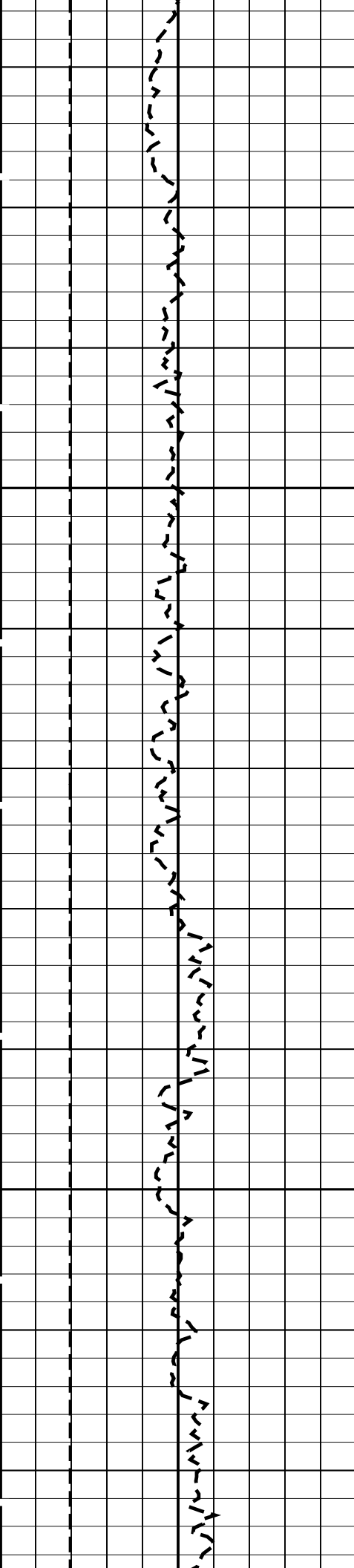




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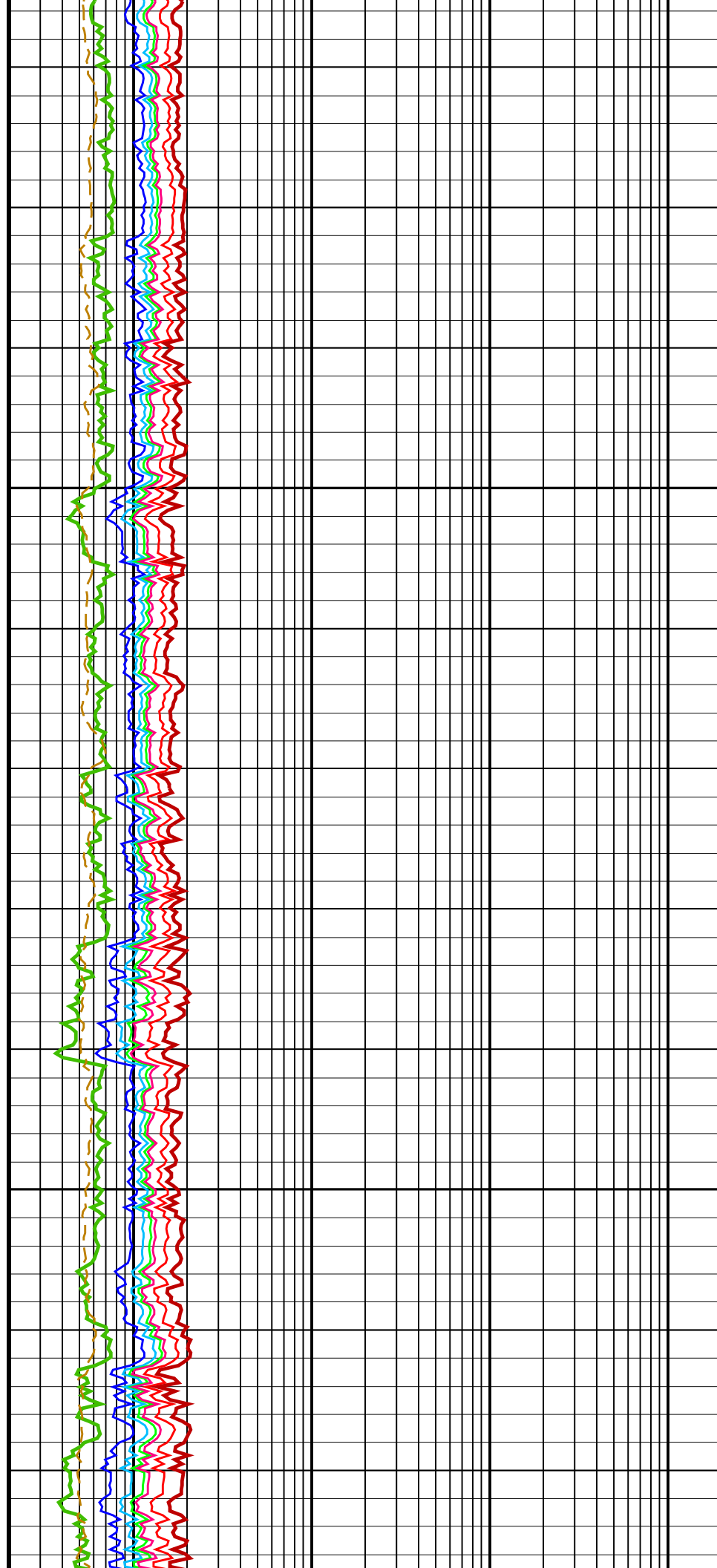
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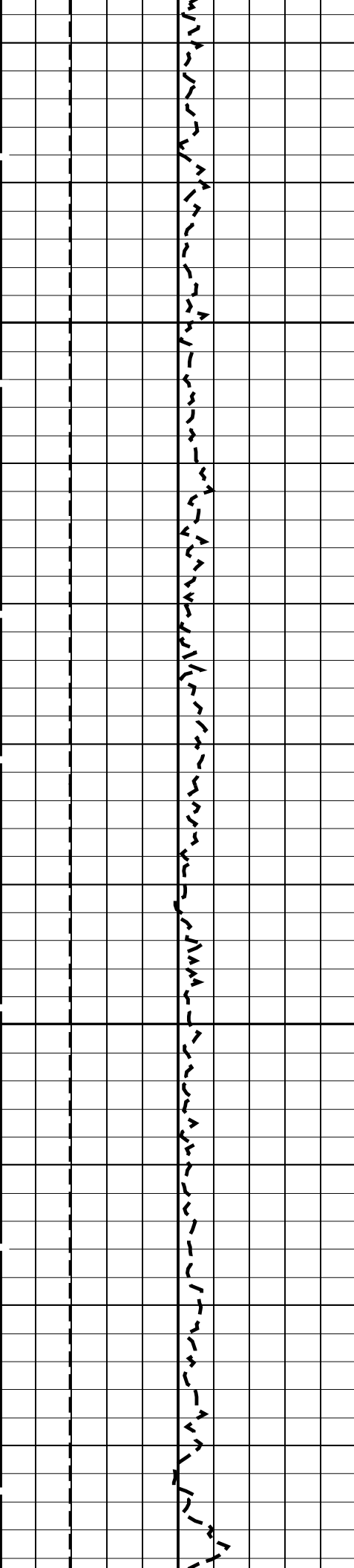




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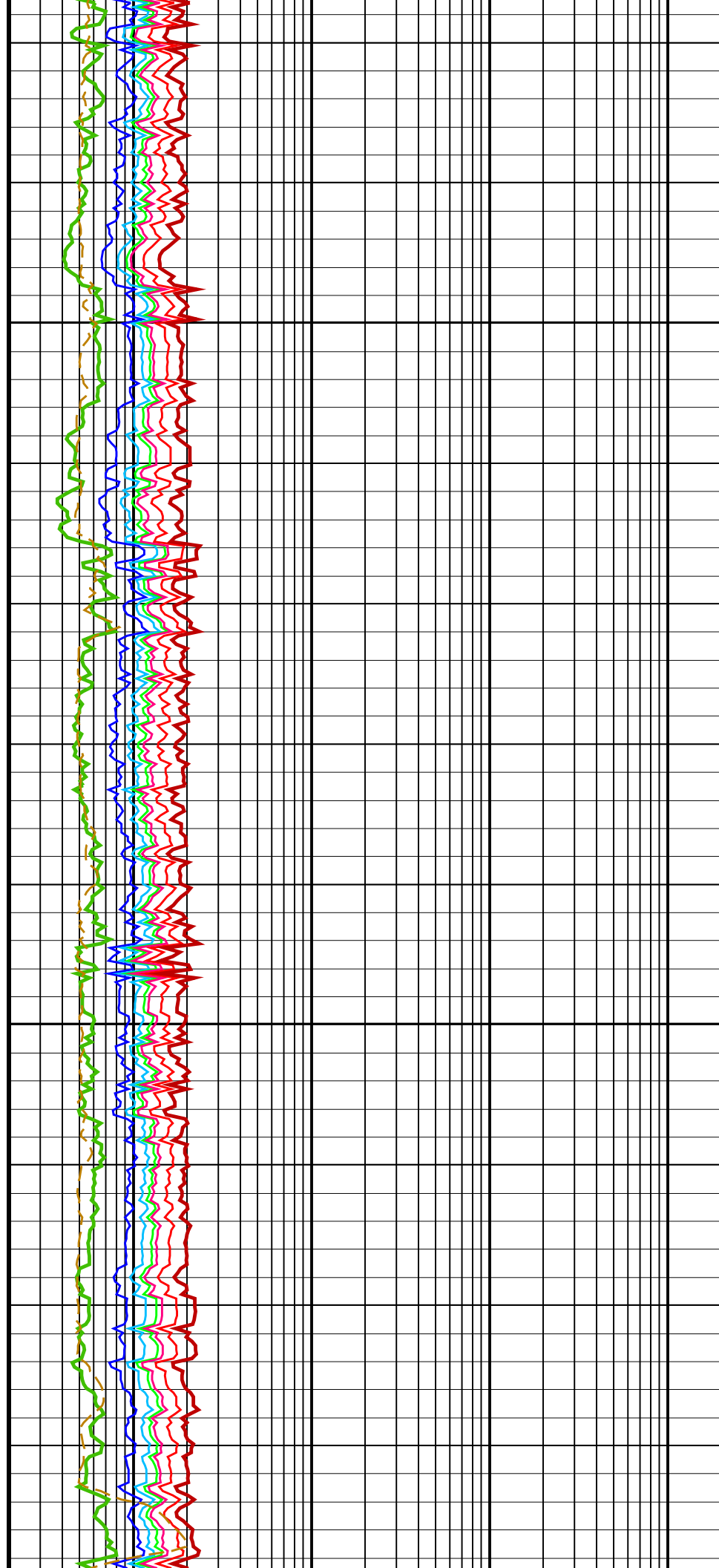
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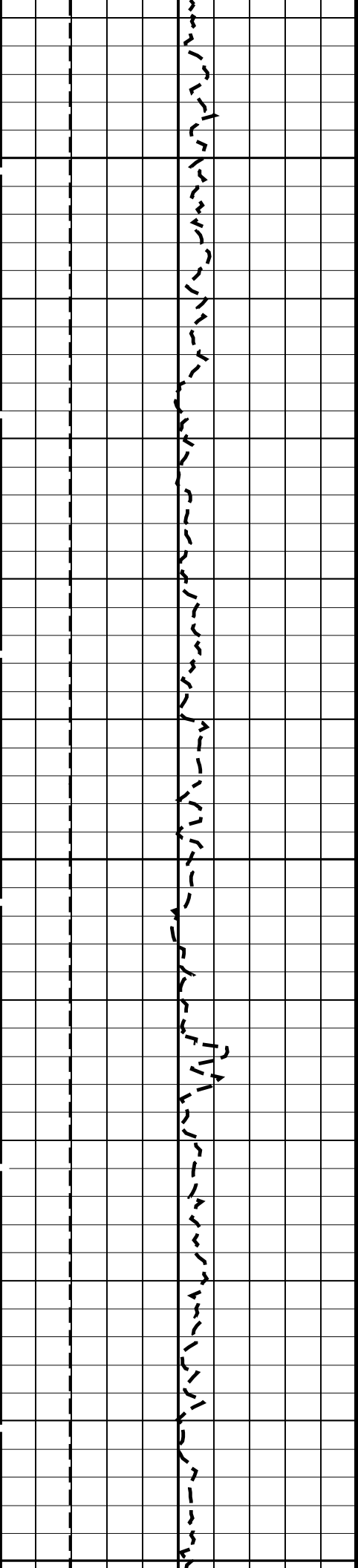




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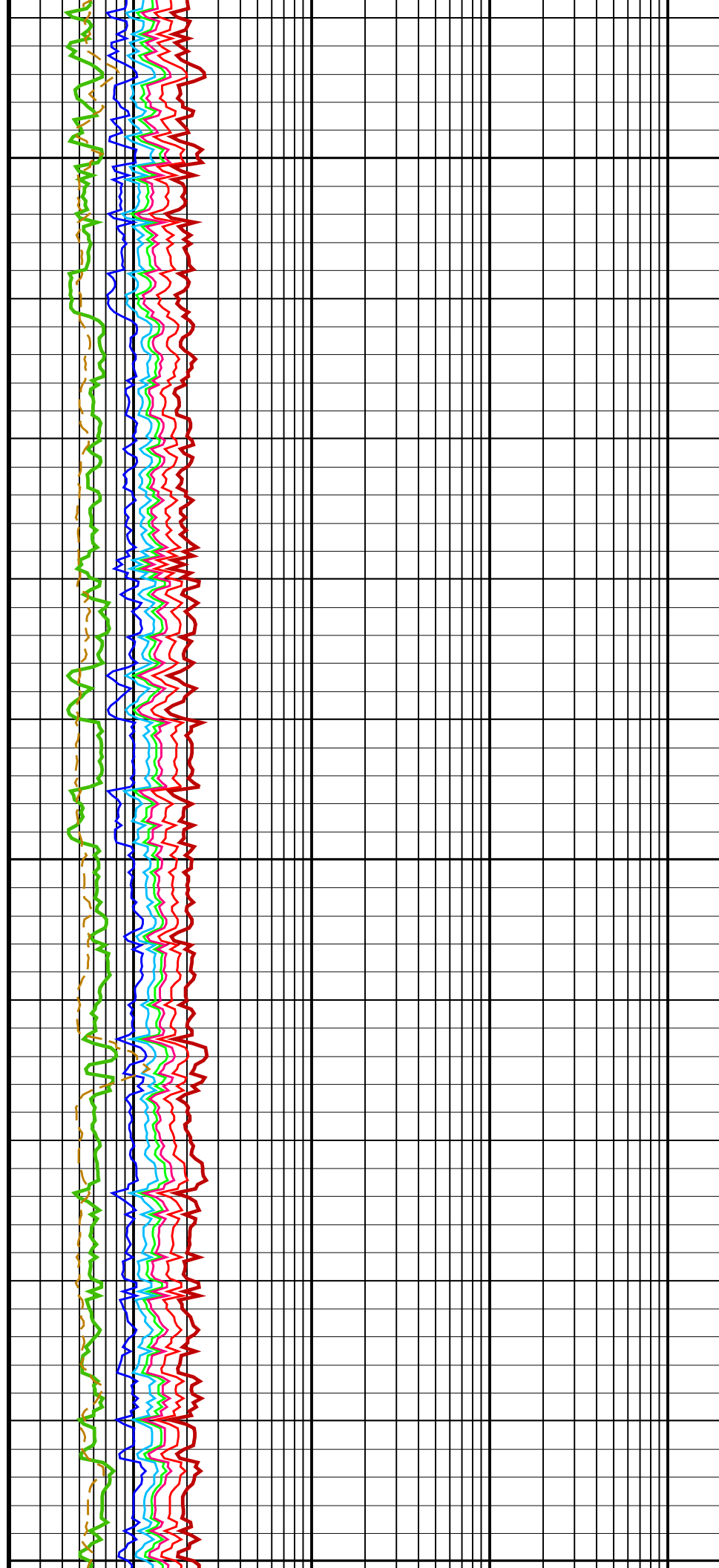


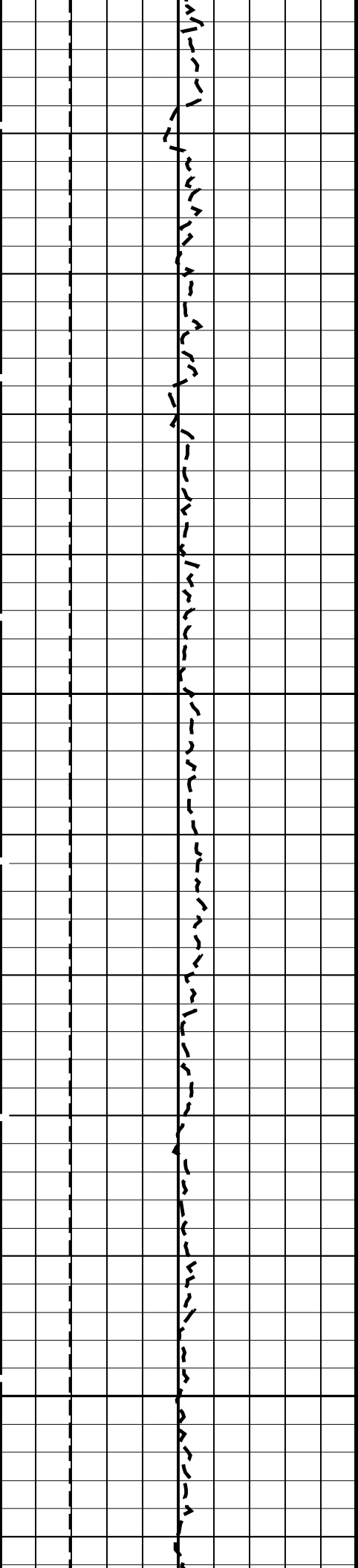


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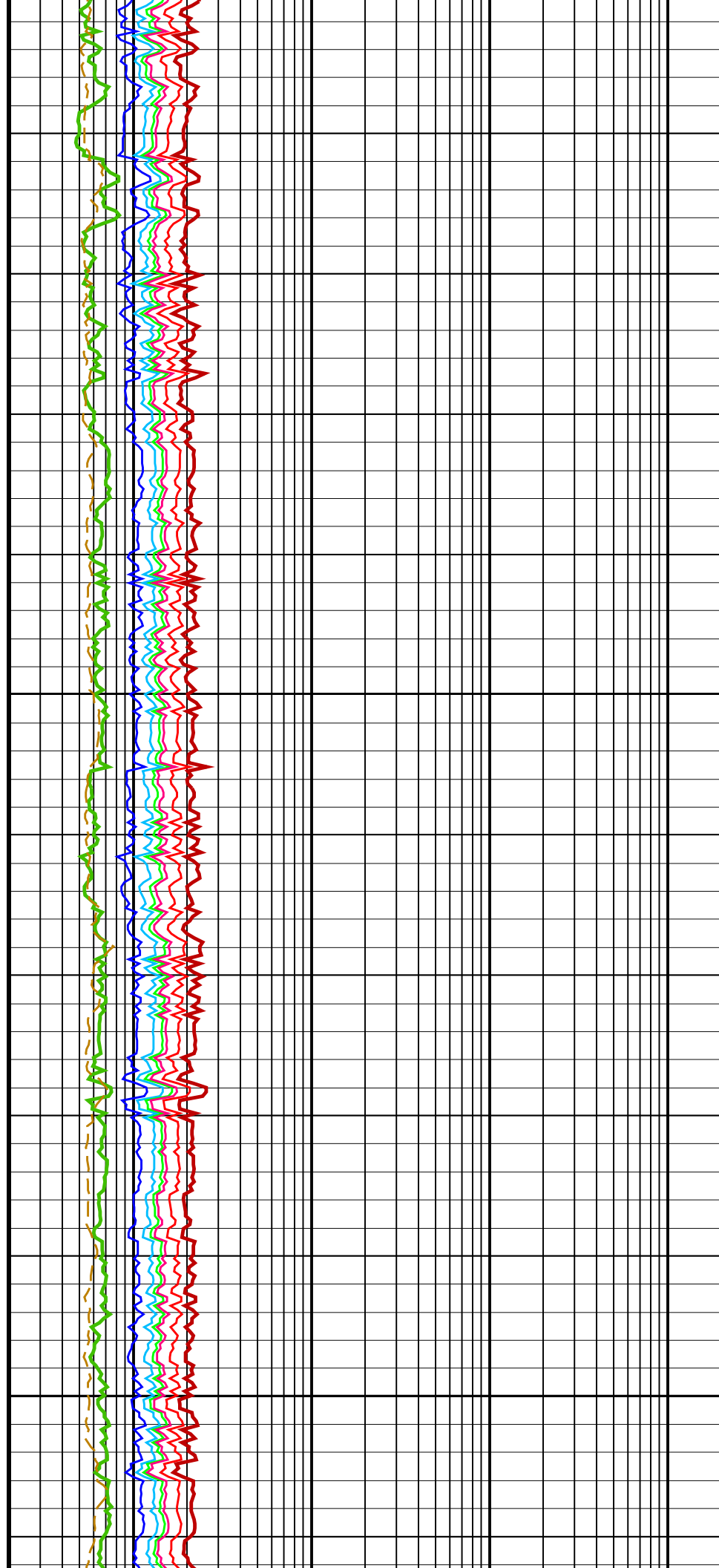
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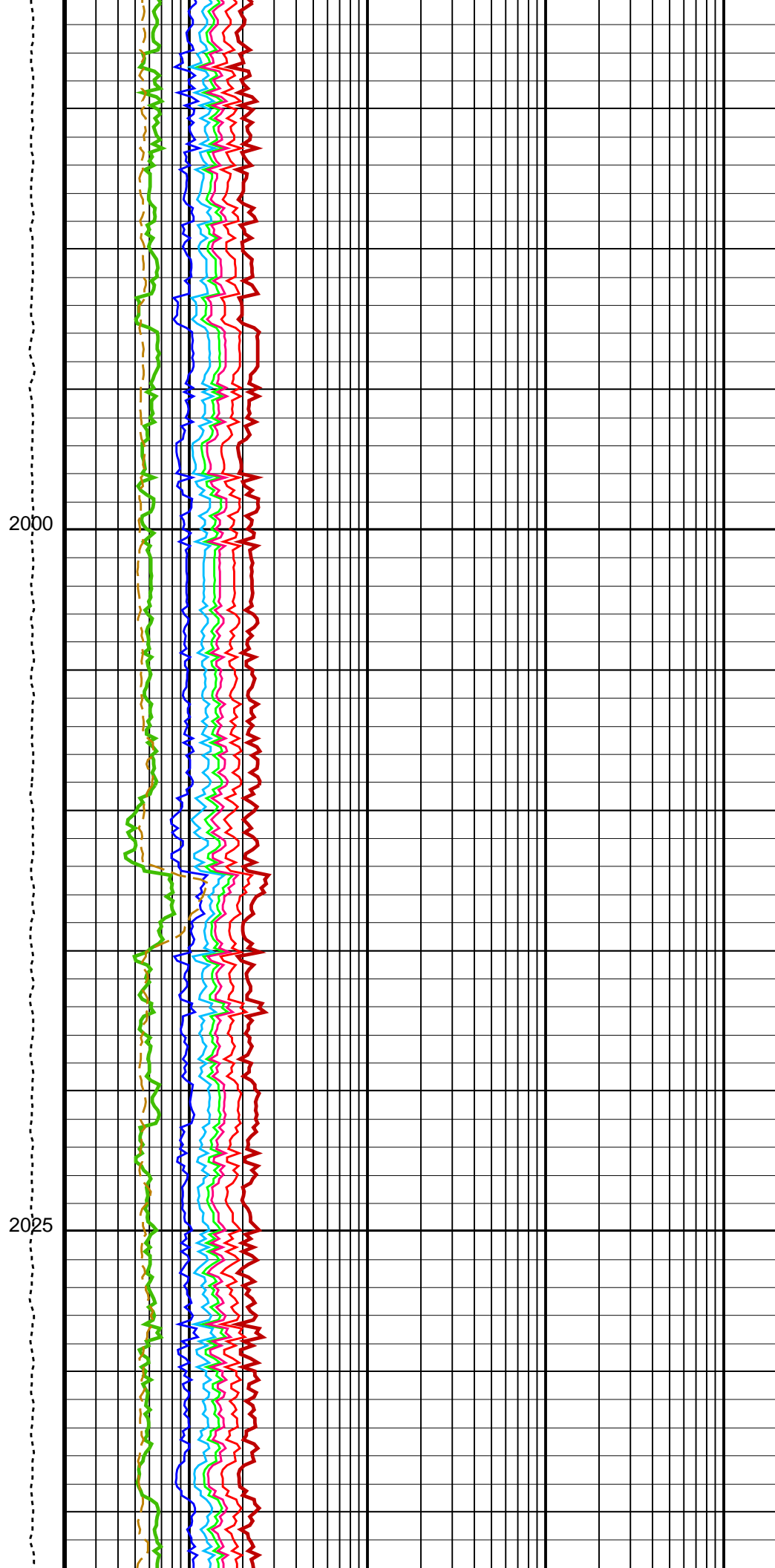
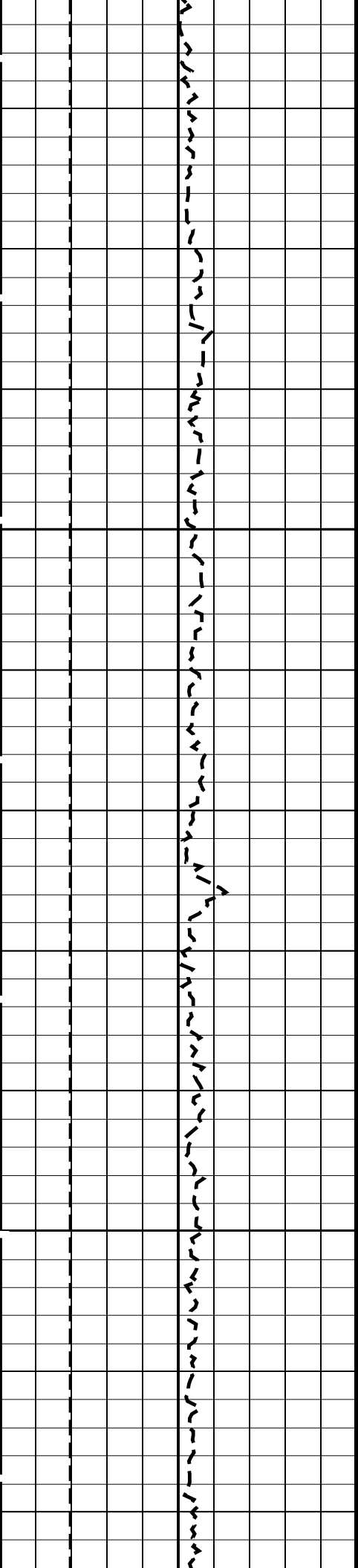


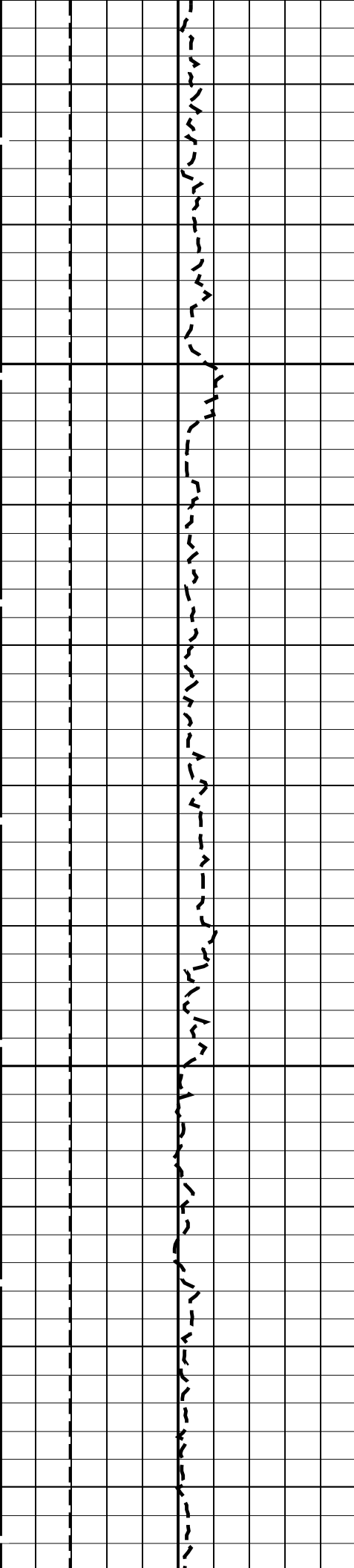


1950

1975

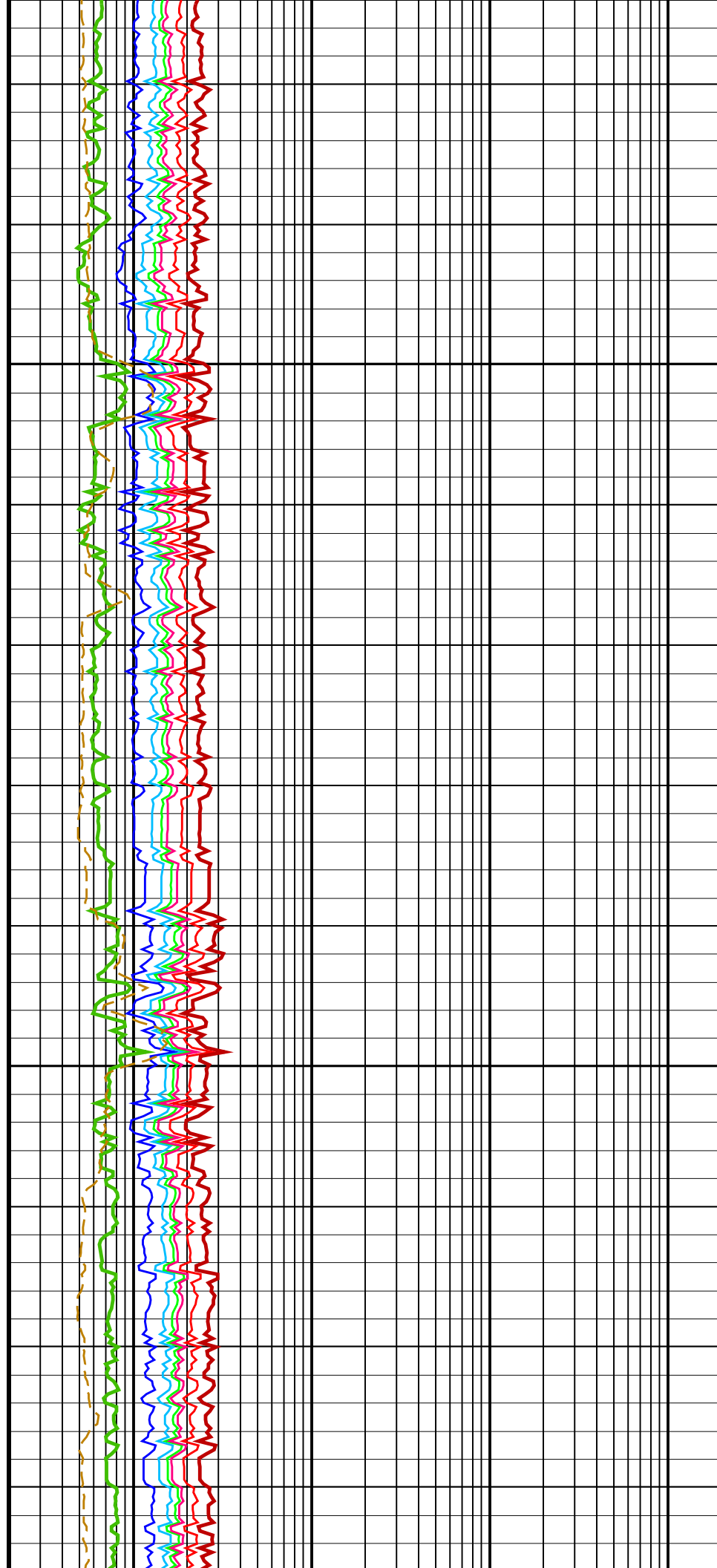


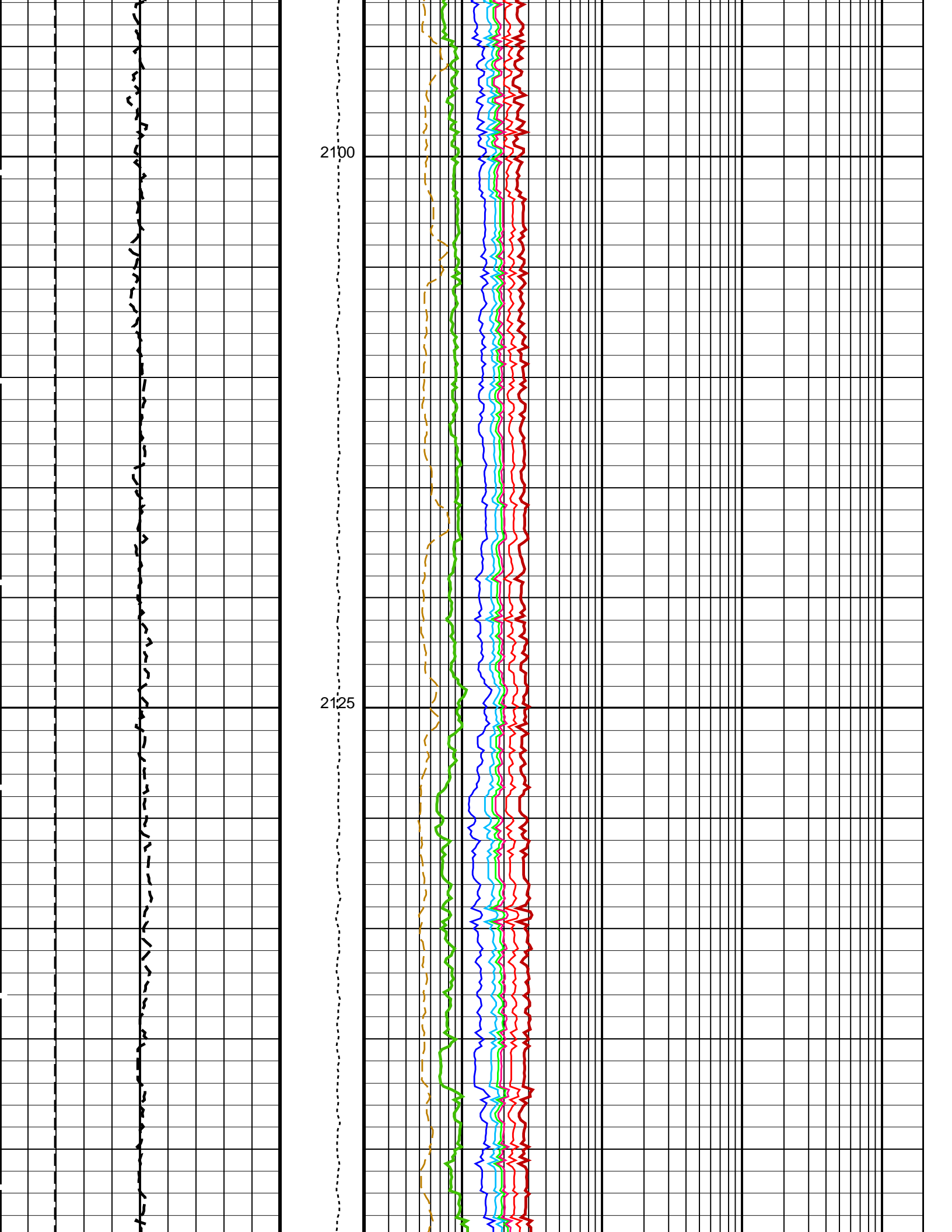


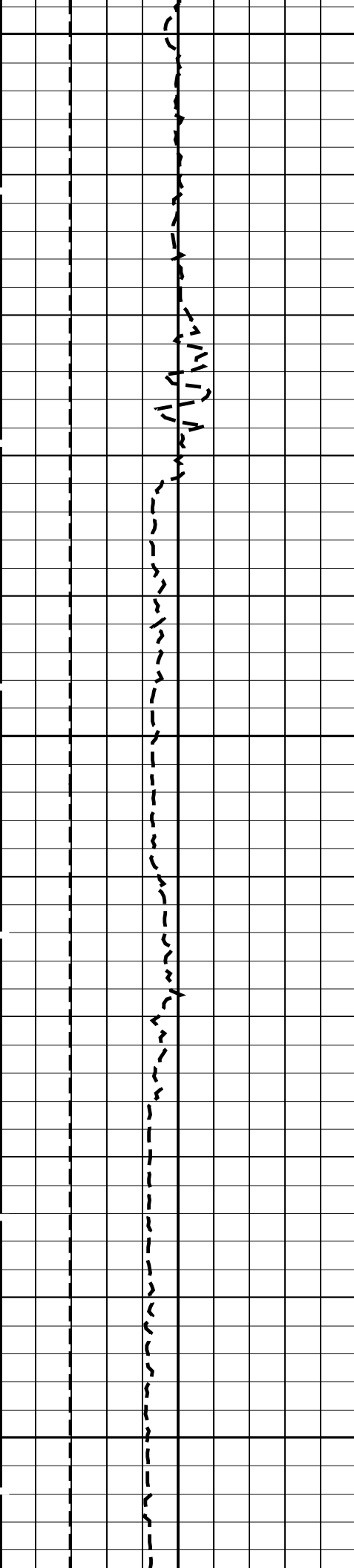


2050

2075



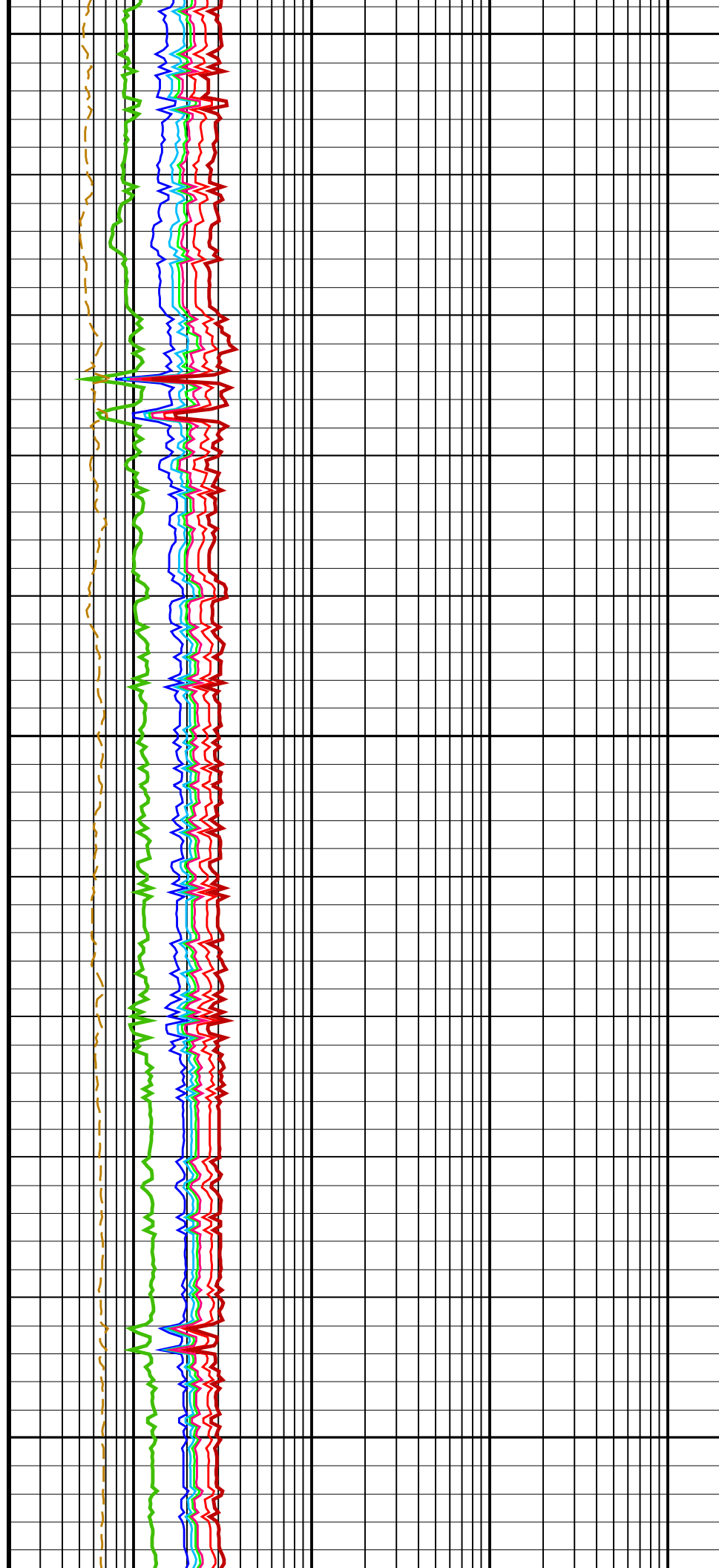


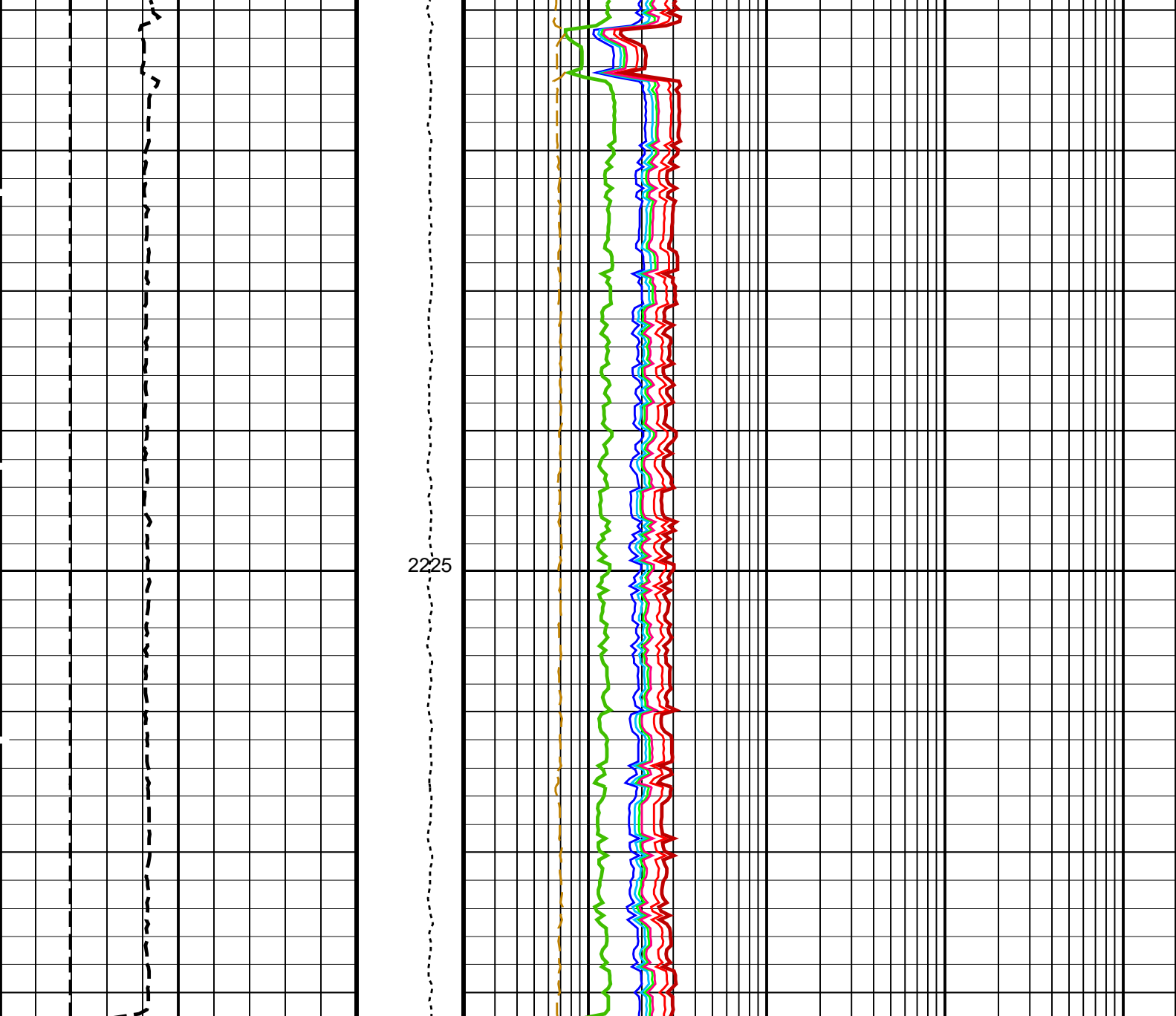


2150

2175

2200





<div>Bit Size (BS) (IN)</div> <div>626</div> <div>Invasion Diameter (DI_HRLT) (IN)</div> <div>050</div>	<div>Tension (TENS) (LBF)</div> <div>100000</div>	<div>0.2</div> <div>HRLT Resistivity 1 (RLA1) (OHMM)</div> <div>2000</div>
		<div>0.2</div> <div>HRLT Resistivity 2 (RLA2) (OHMM)</div> <div>2000</div>
		<div>0.2</div> <div>HRLT Resistivity 3 (RLA3) (OHMM)</div> <div>2000</div>
		<div>0.2</div> <div>HRLT Resistivity 4 (RLA4) (OHMM)</div> <div>2000</div>
		<div>0.2</div> <div>HRLT Resistivity 5 (RLA5) (OHMM)</div> <div>2000</div>
		<div>0.02</div> <div>HRLT Mud Resistivity (RM_HRLT) (OHMM)</div> <div>200</div>
		<div>0.2</div> <div>Invaded Zone Resistivity (RXO_HRLT) (OHMM)</div> <div>2000</div>
		<div>0.2</div> <div>HRLT True Resistivity (RT_HRLT) (OHMM)</div> <div>2000</div>

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	
DO		Depth Offset for Playback	0.0	M	
MST		Mud Sample Temperature	73.40	DEGF	
PP		Playback Processing	NORMAL		
TD		Total Depth	10190.3	FT	
Format: HRLT		Vertical Scale: 1:200	Graphics File Created: 24-Dec-2023 15:07		
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_016LUP	PRODUCER	23-Dec-2023 05:56		
Output DLIS Files					
DEFAULT	MSS_LDEO_HRLA_LDL_024PUP	FN:20	PRODUCER	24-Dec-2023 15:07	
Company: International Ocean Discovery Program					
Well: Expedition 401, Site U1609A					
Input DLIS Files					
DEFAULT	Flip_MSS_LDEO_HRLA_016LUP	PRODUCER	23-Dec-2023 05:56		
Output DLIS Files					
DEFAULT	MSS_LDEO_HRLA_LDL_024PUP	FN:20	PRODUCER	24-Dec-2023 15:07	2240.9 M 1620.8 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	

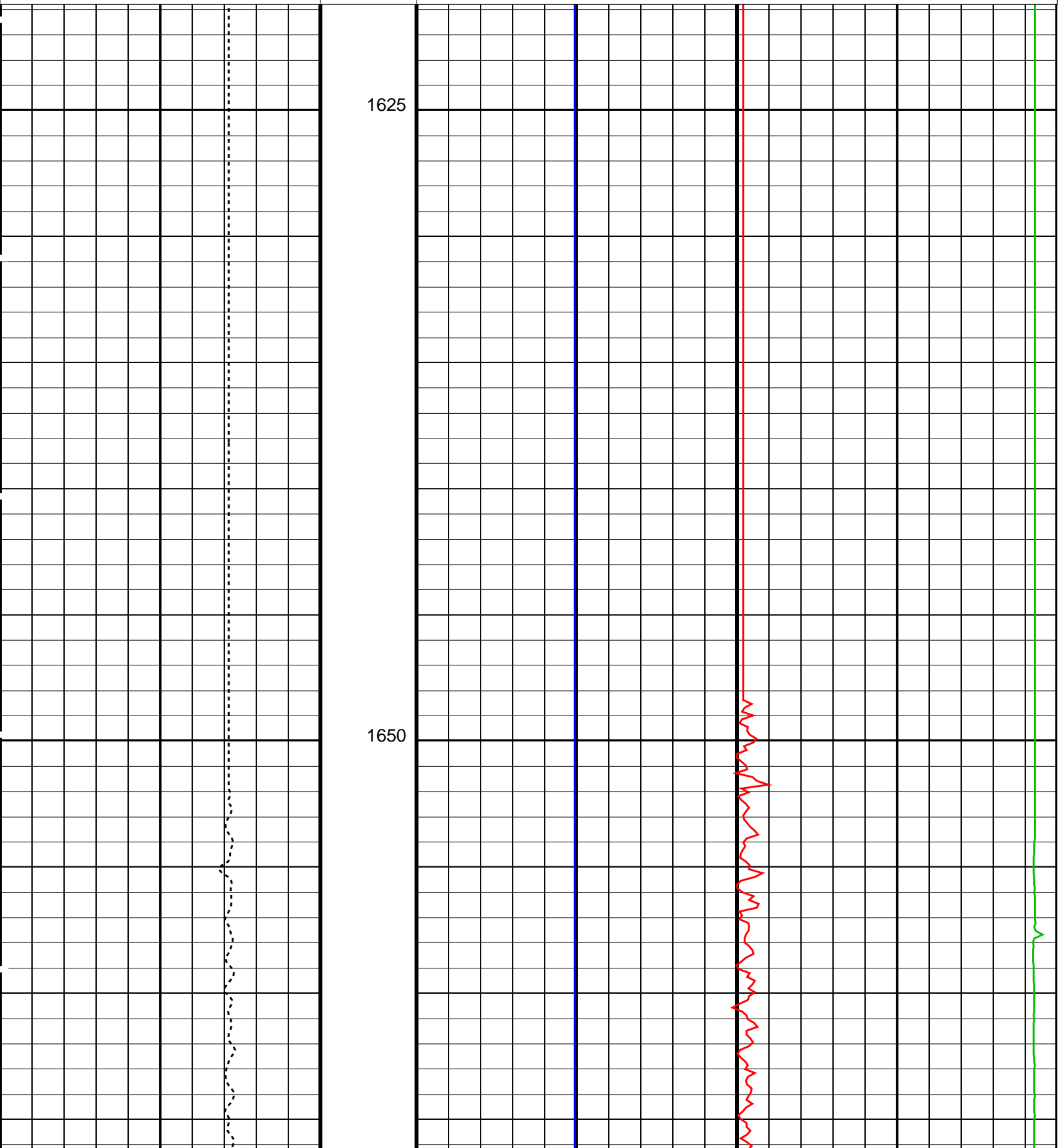
Time Mark Every 60 S

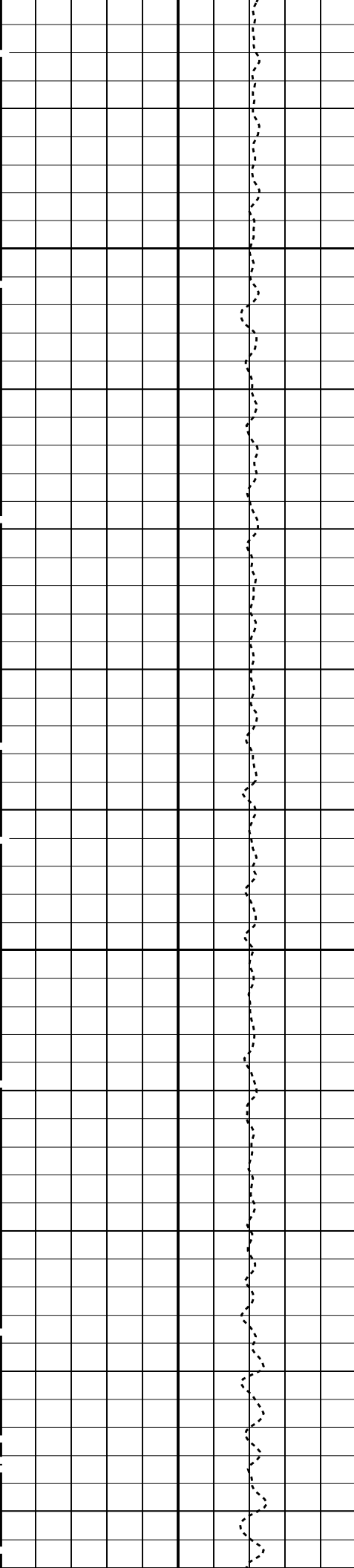
90000

90000

20

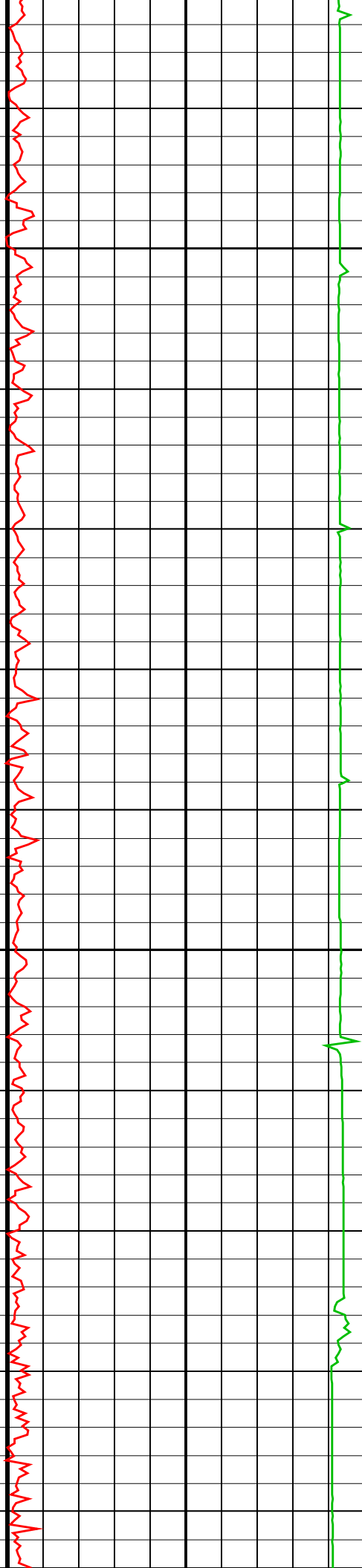
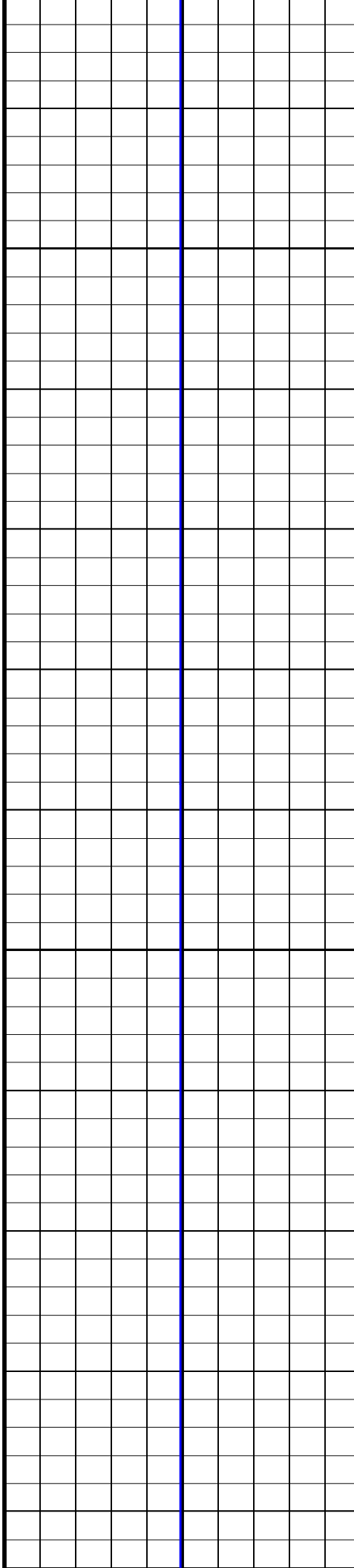
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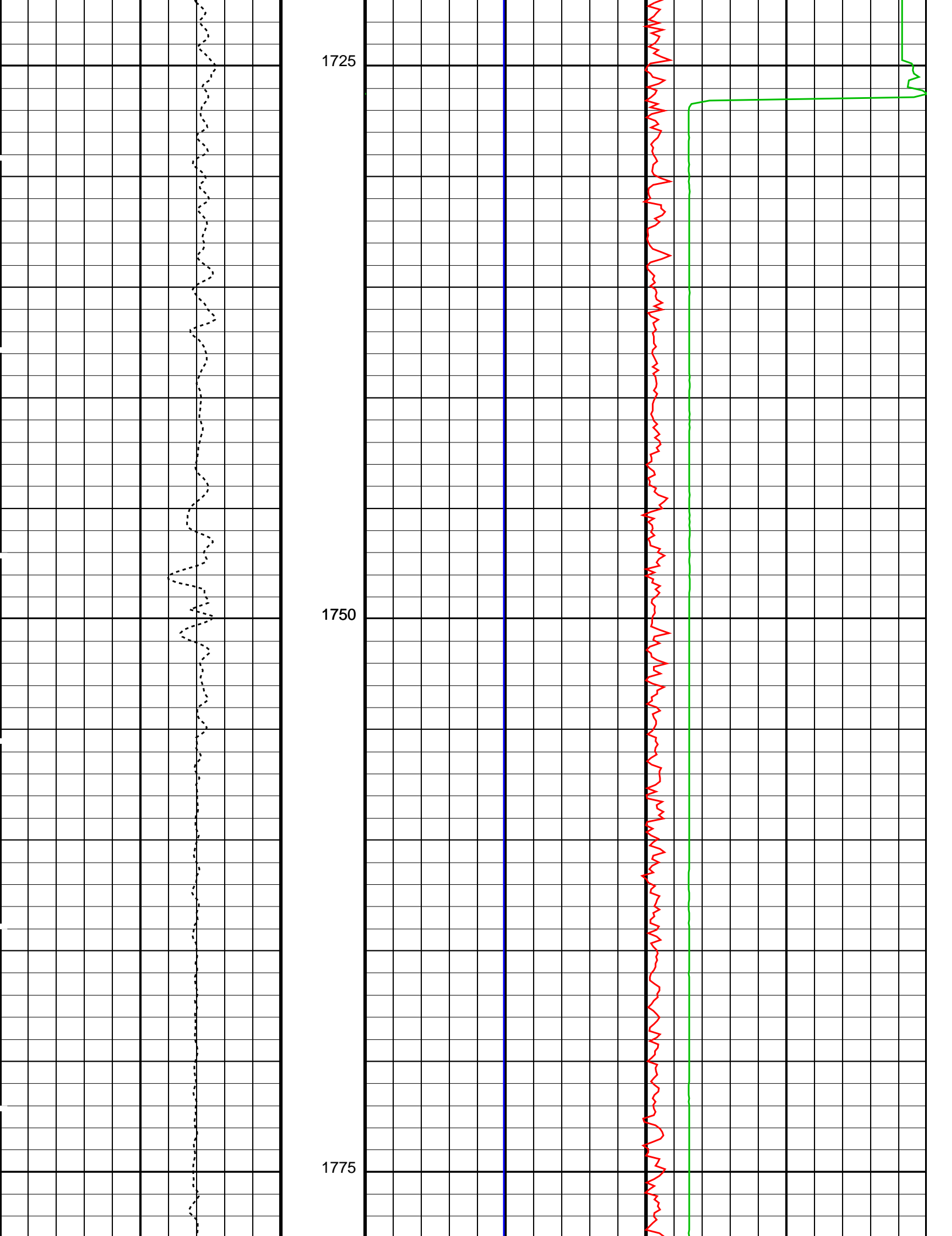


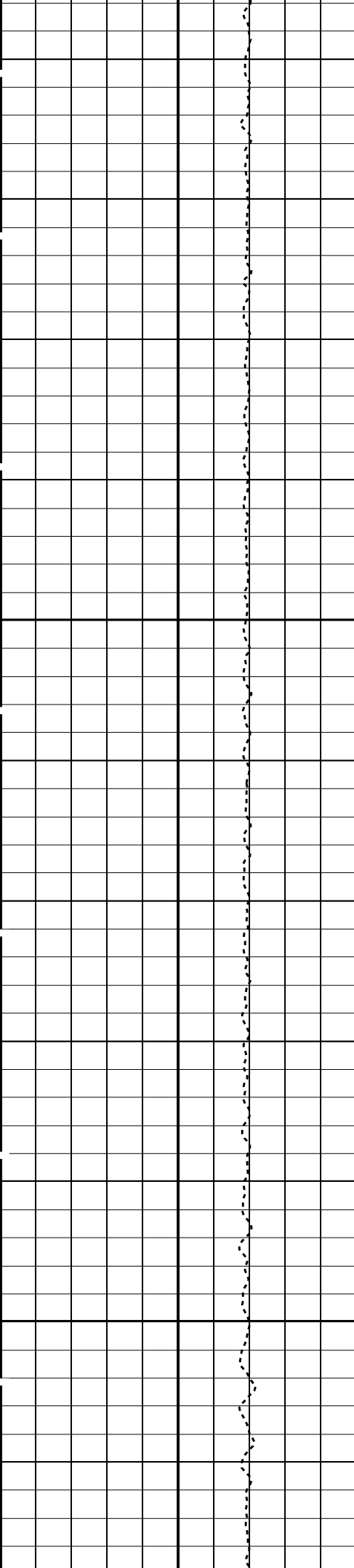


1675

1700

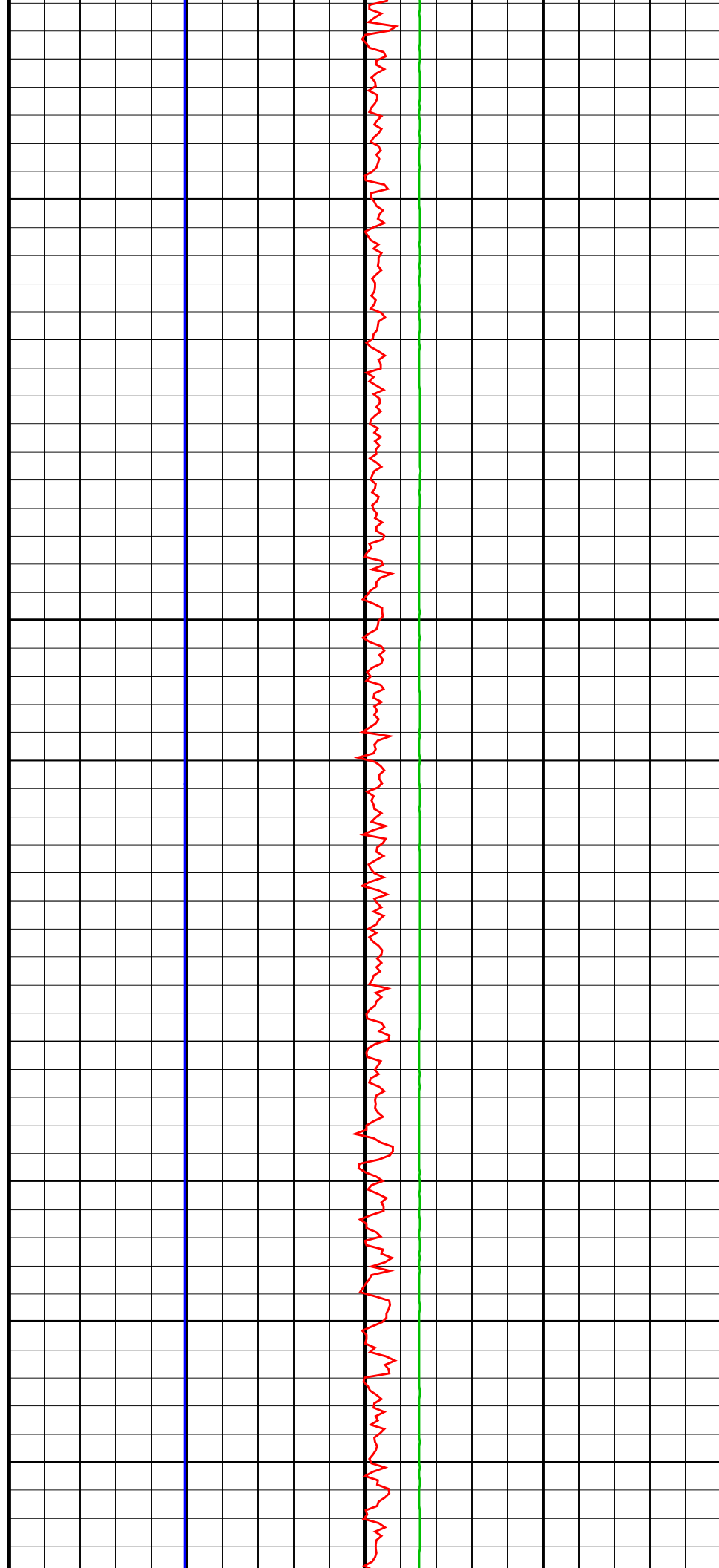


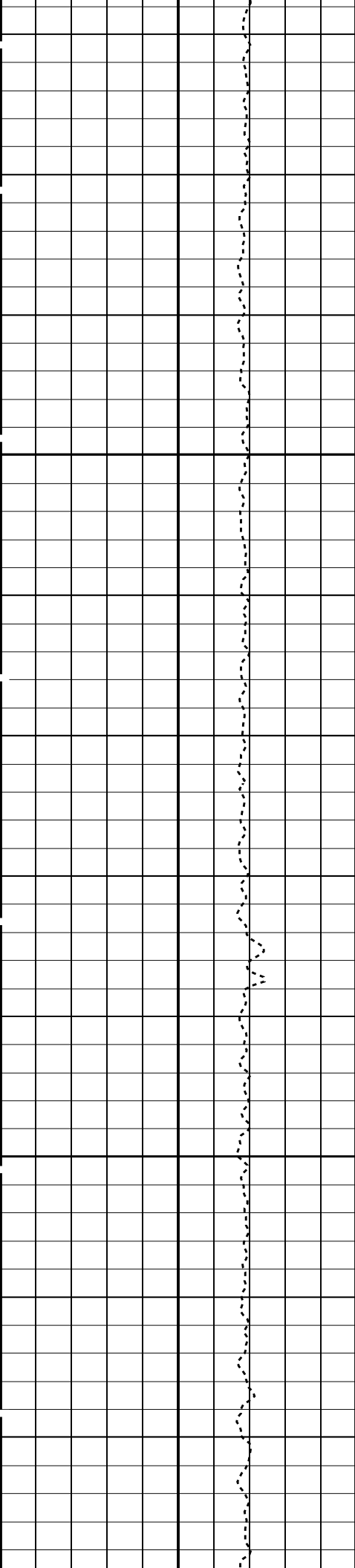




1800

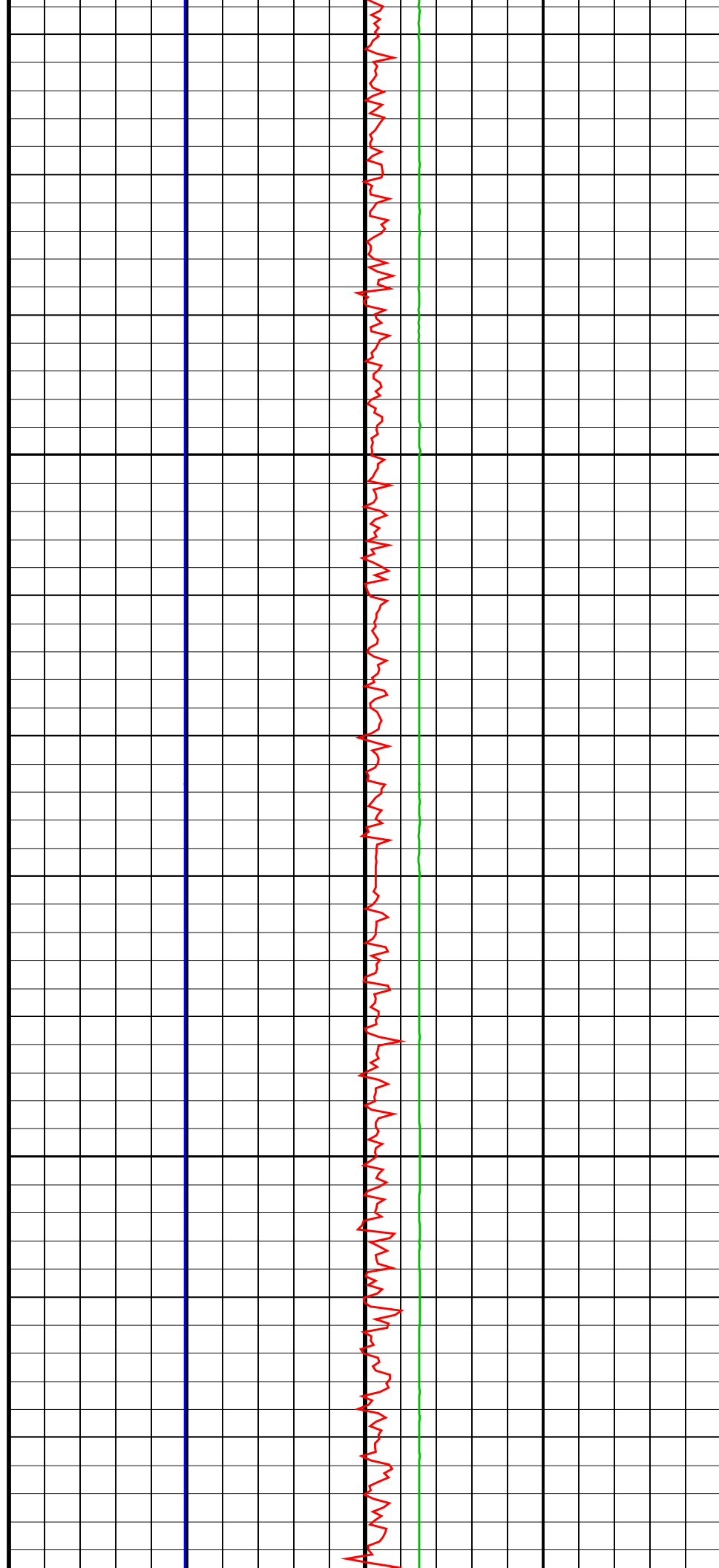
1825

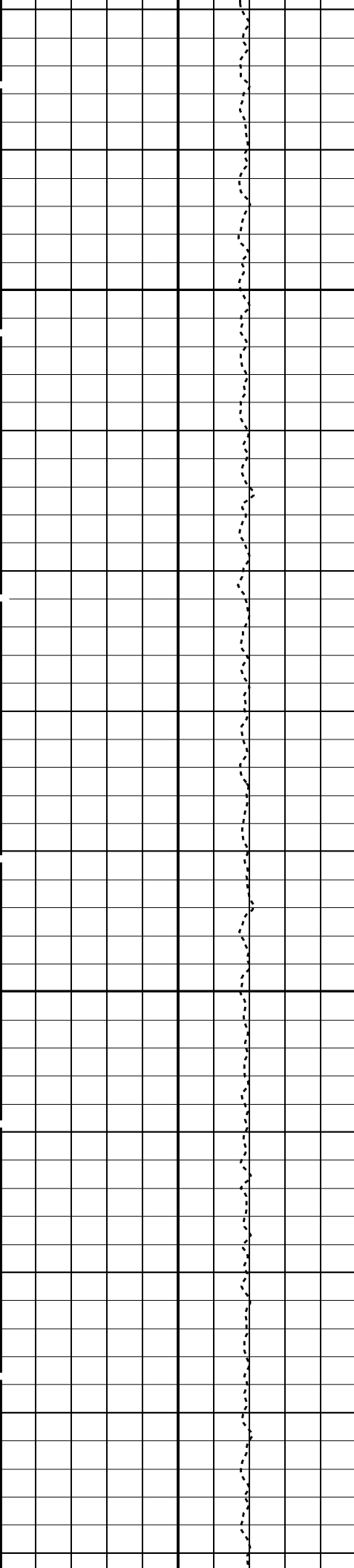




1850

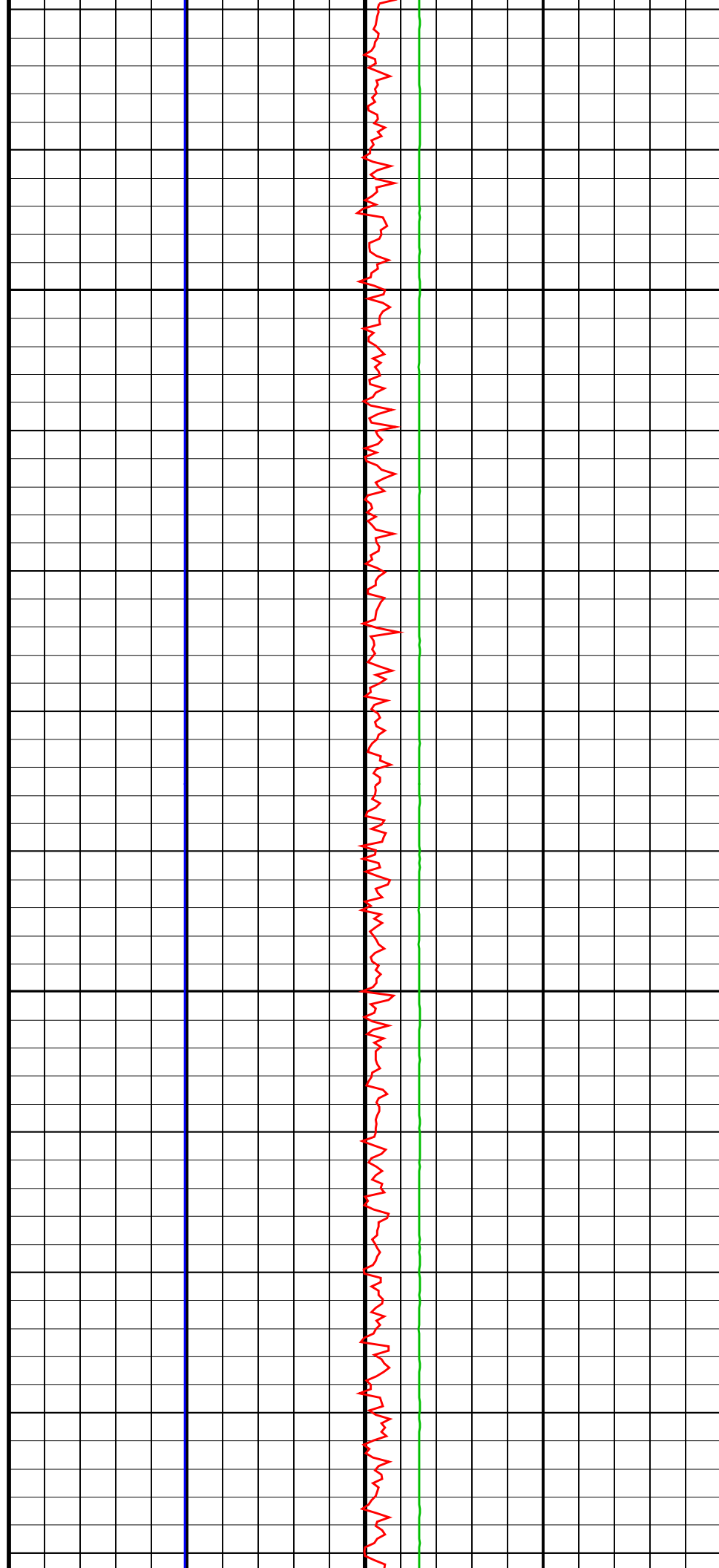
1875

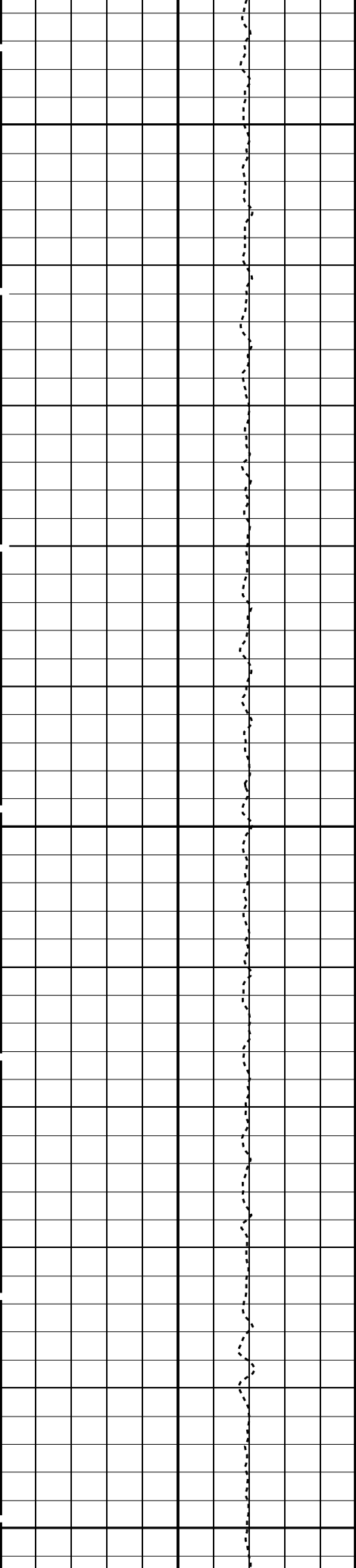




1900

1925

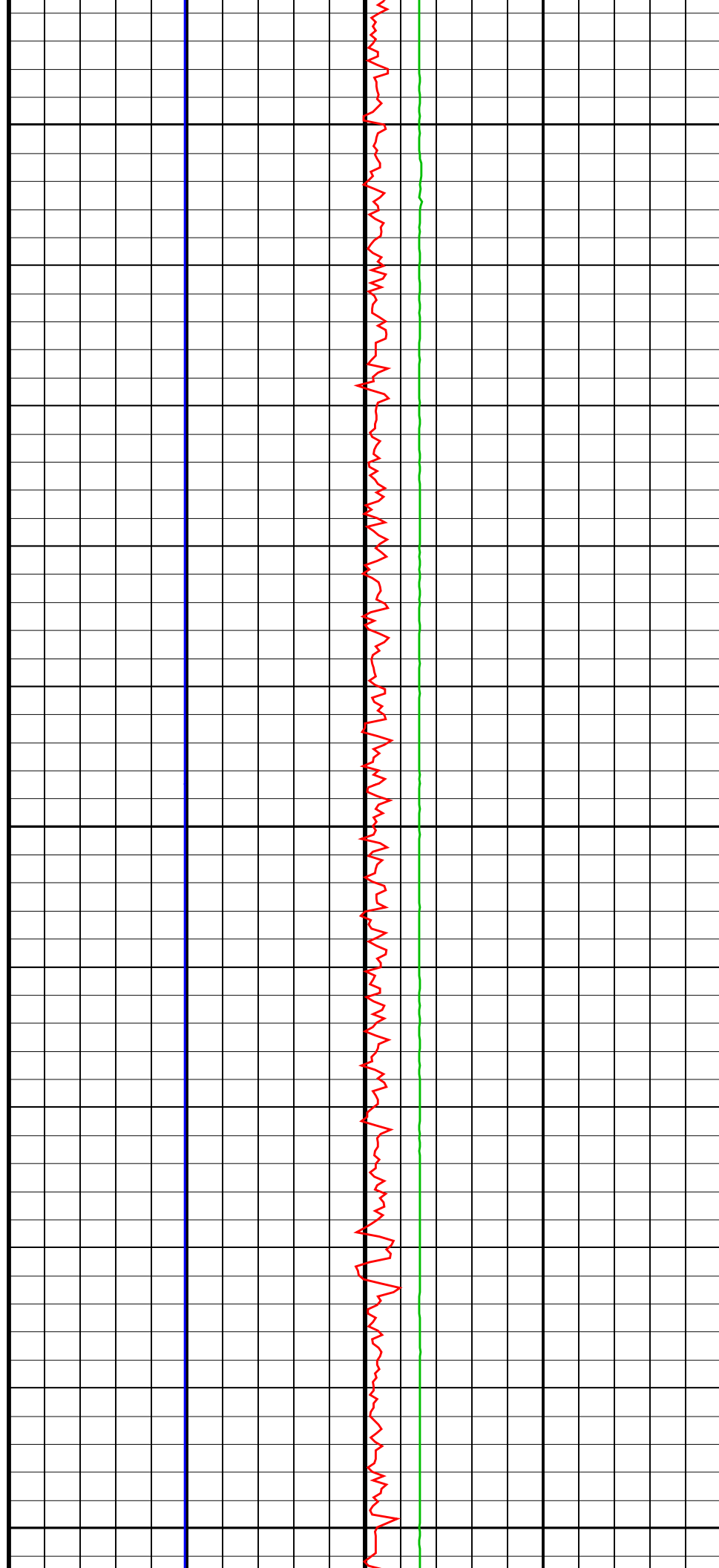


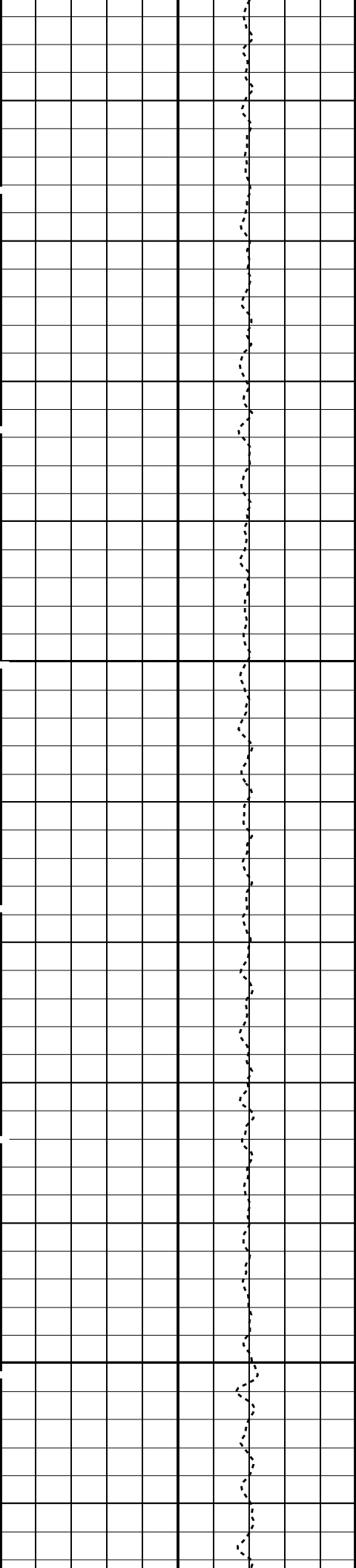


1950

1975

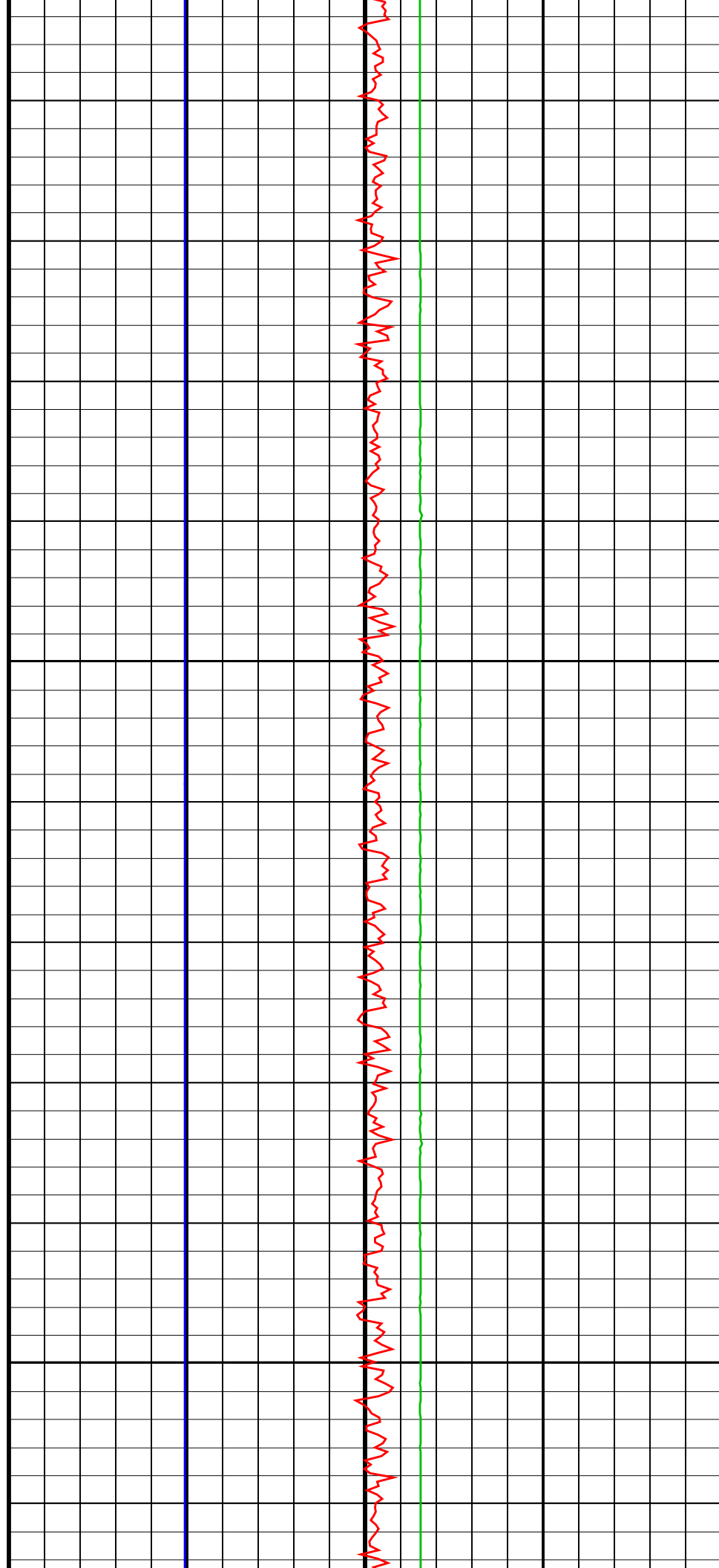
2000

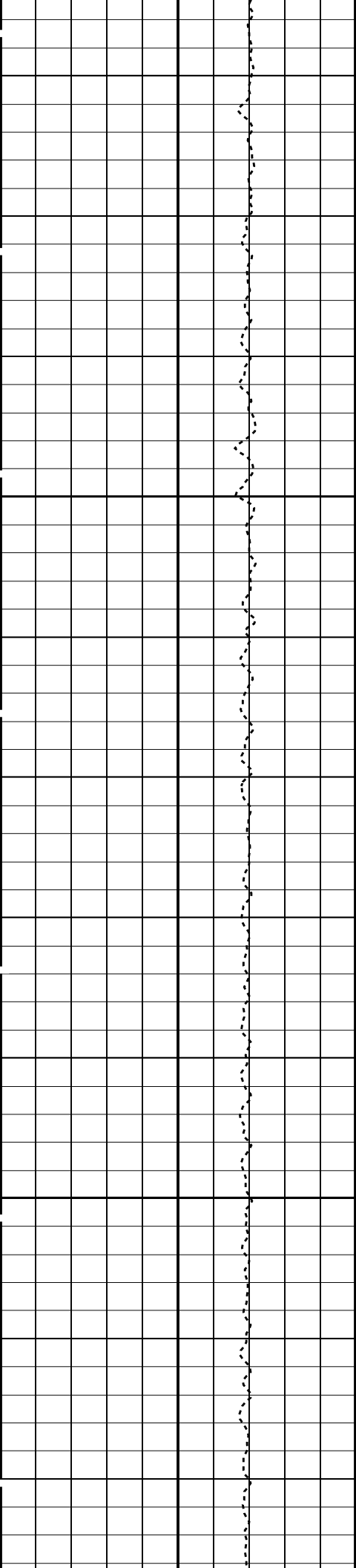




2025

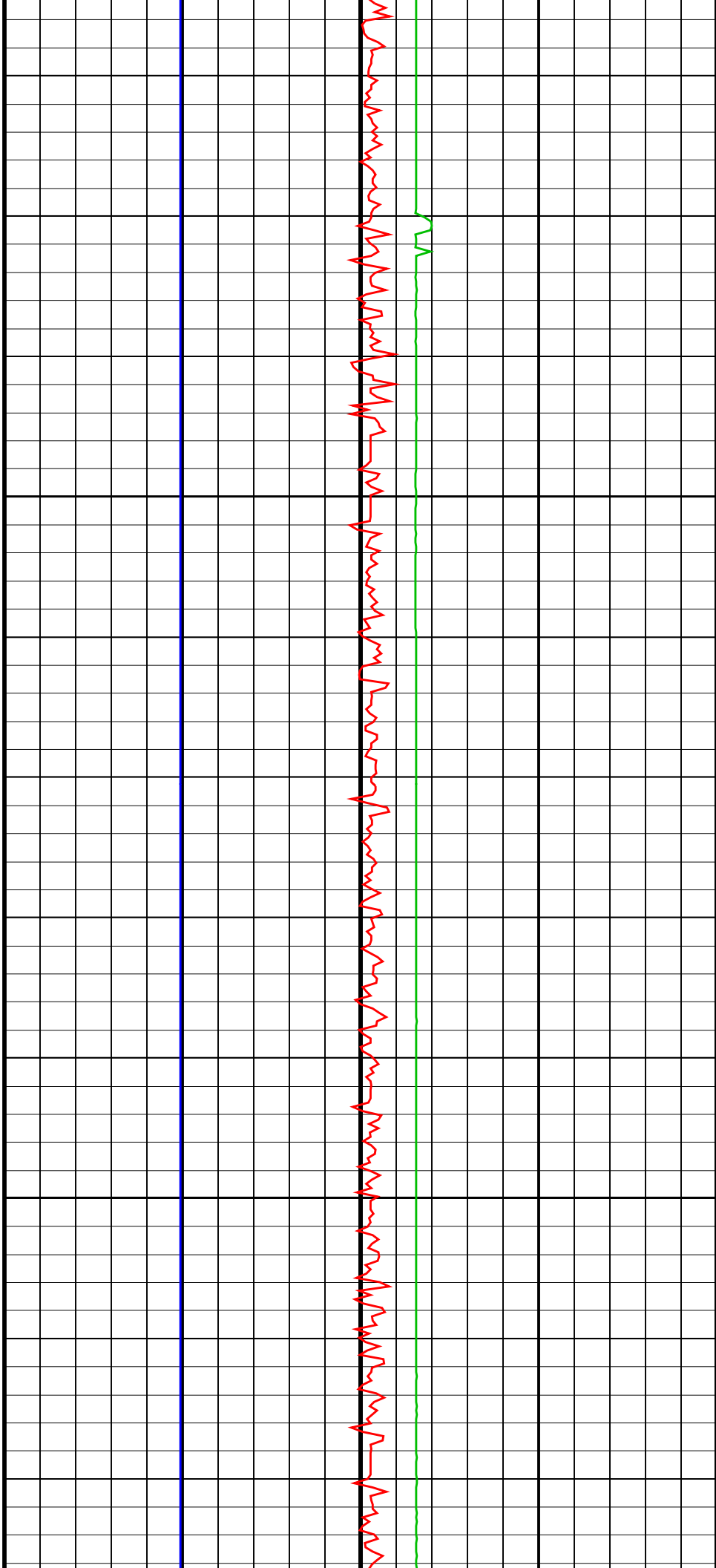
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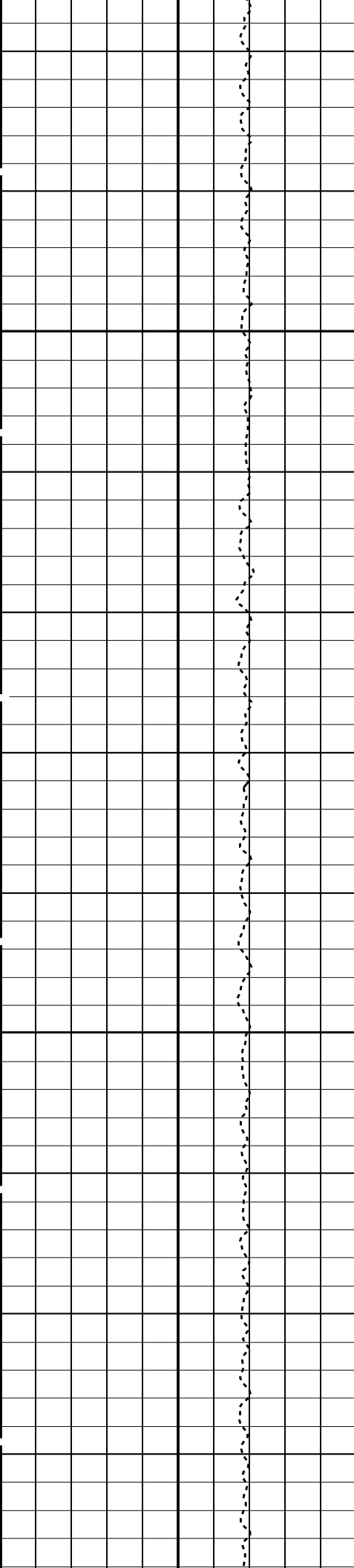




2075

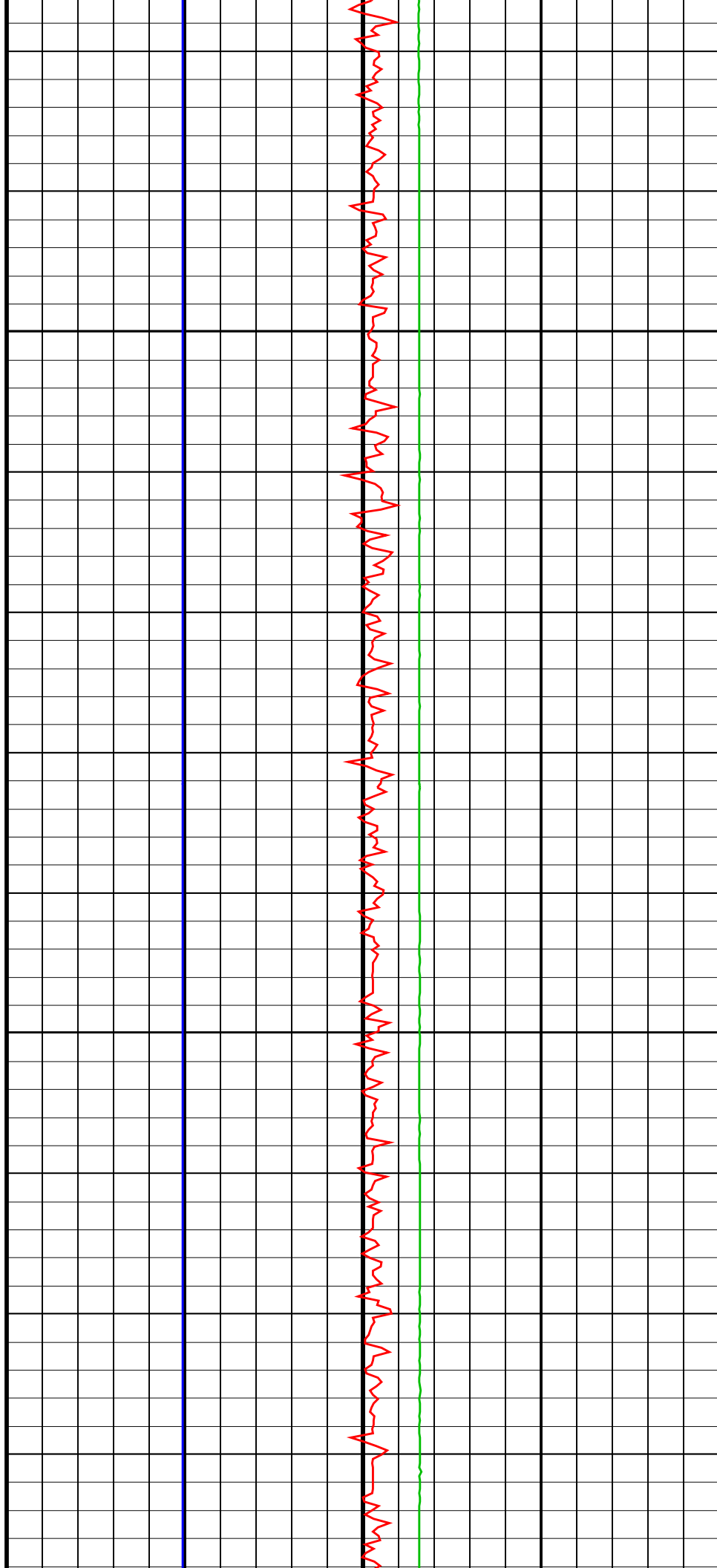
2100

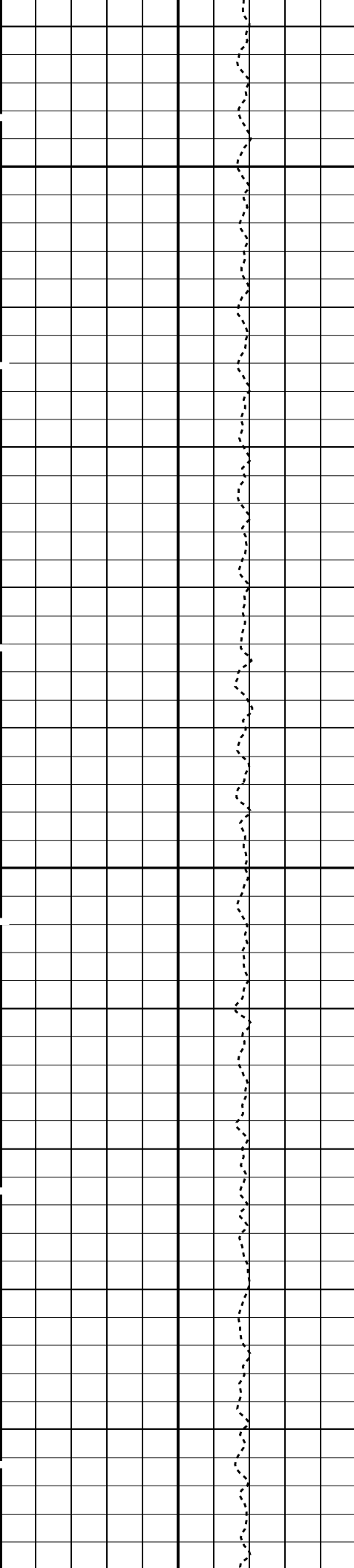




2125

2150

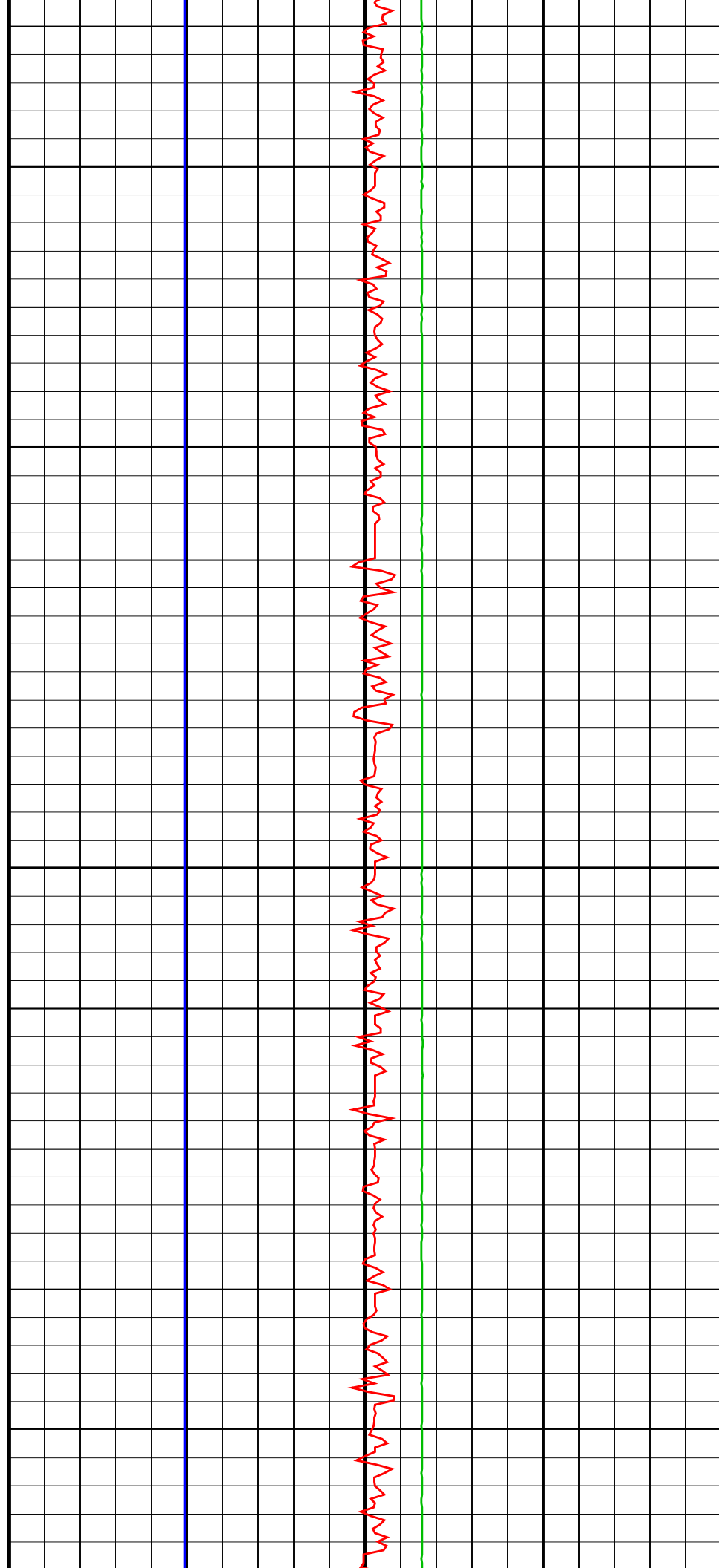


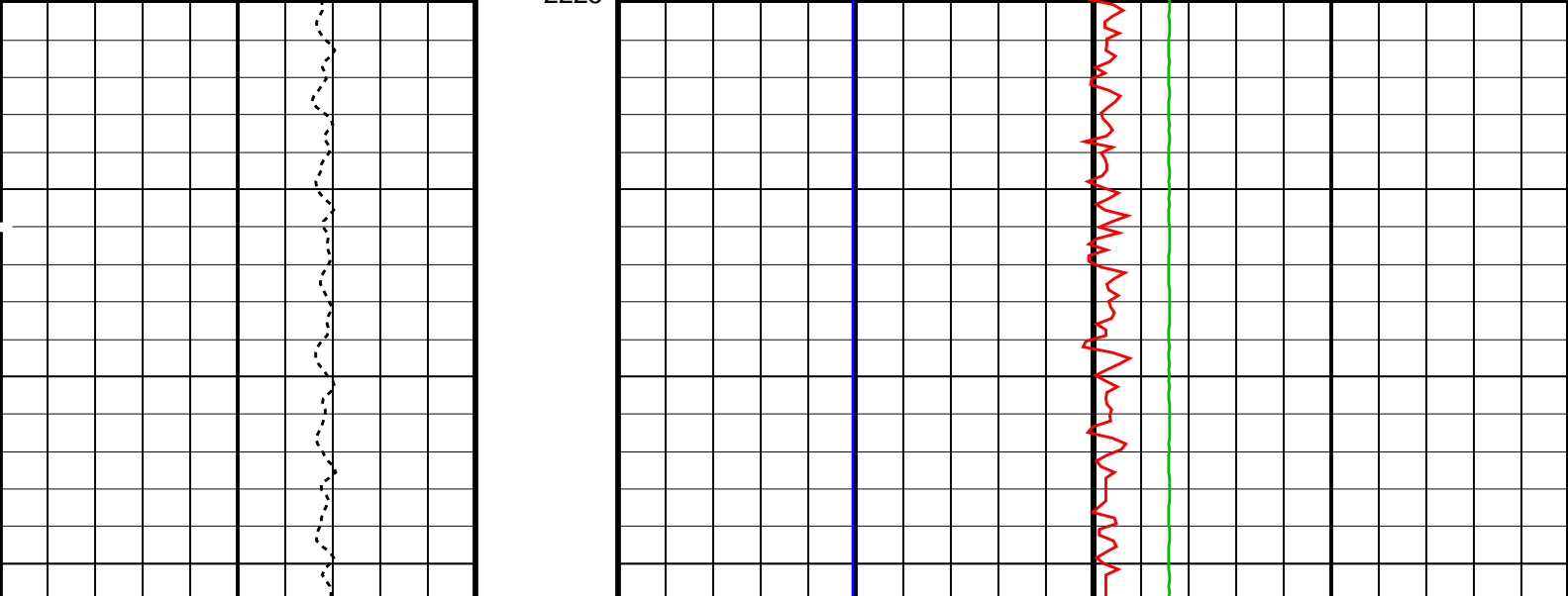


2175

2200

2225





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

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
DO	System and Miscellaneous	0.0 M
PP	Depth Offset for Playback Playback Processing	NORMAL

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 24-Dec-2023 15:07

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_016LUP	PRODUCER	23-Dec-2023 05:56
Output DLIS Files			
DEFAULT	MSS_LDEO_HRLA_LDL_024PUP	FN:20	PRODUCER 24-Dec-2023 15:07



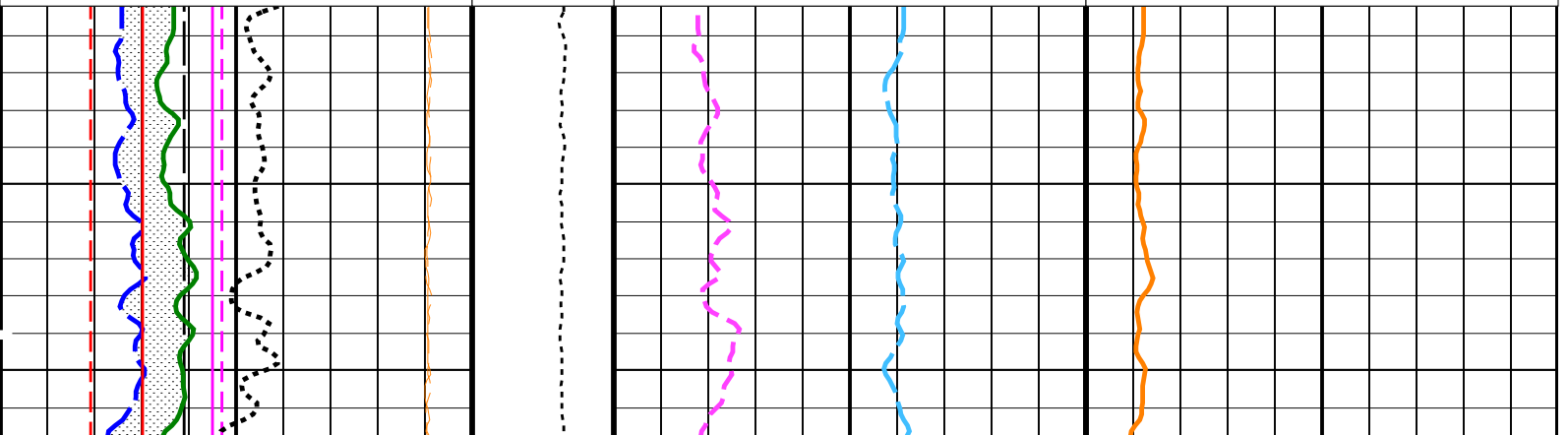
Repeat Pass

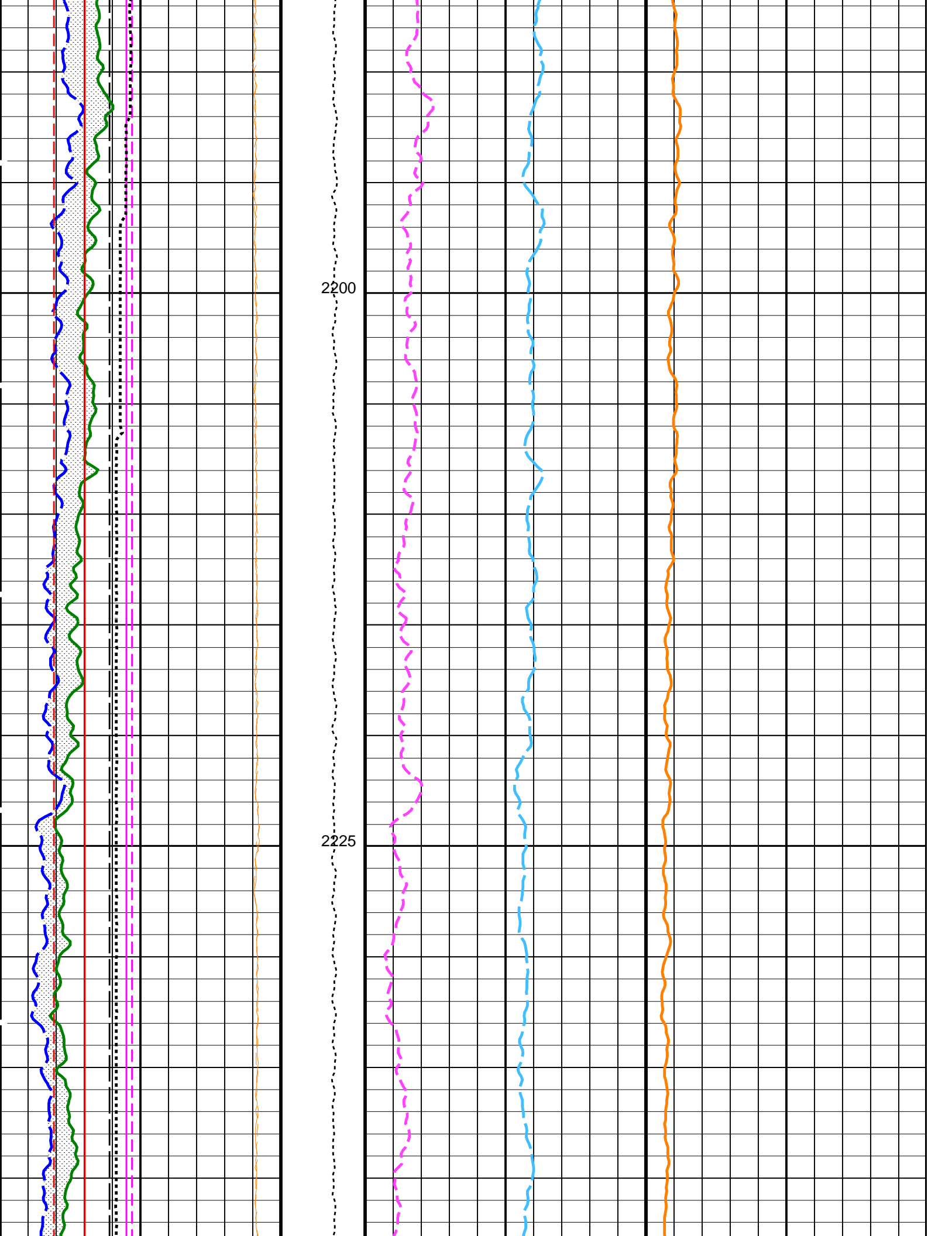
Output DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:12	PRODUCER	23-Dec-2023 05:39	2274.6 M	2176.3 M

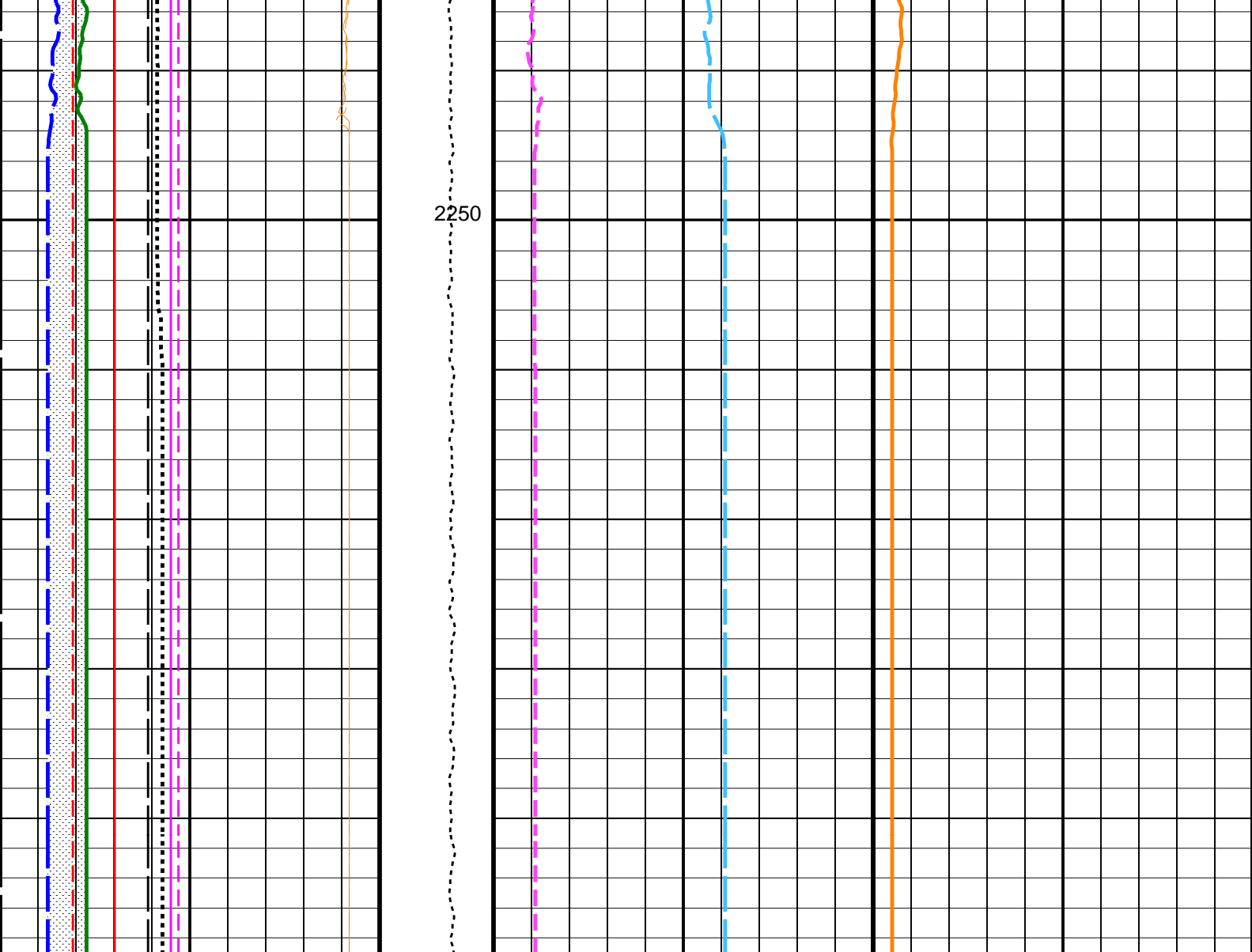
OP System Version: 19C0-187			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

PIP SUMMARY

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 Det.2 Chi Squared (CHI2)		
10	(-----)	0
HNGS Det.1 Chi Squared (CHI1)		
10	(-----)	0
Tension (TENS) (LBF)		
10000	0	
HNGS Borehole Potassium (HBHK)		
-0.05	(V/V)	0.05
HNGS Uranium (HURA)		
-10	(PPM)	30
HNGS Thorium (HTHO)		HNGS Potassium (HFK)
0	(PPM)	30
0	(V/V)	0.1







HNGS Det.1 Chi Squared (CHI1) 10 (----) 0		Tension (TENS) (LBF) 10000 0	HNGS Thorium (HTHO) 0 (PPM) 30		HNGS Potassium (HFK) 0 (V/V) 0.1	
HNGS Det.2 Chi Squared (CHI2) 10 (----) 0			HNGS Uranium (HURA) -10 (PPM) 30		HNGS Borehole Potassium (HBHK) -0.05 (V/V) 0.05	
Bit Size (BS) 6 (IN) 16						
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)						

(-----)	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	-0.0338331	
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	1.04807	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.968602	
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: 23-Dec-2023 05:39
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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_015LUP	FN:12	PRODUCER 23-Dec-2023 05:39

Company: International Ocean Discovery Program	Well: Expedition 401, Site U1609A
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Output DLIS Files			
DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:12	PRODUCER 23-Dec-2023 05:39 2274.6 M 2176.3 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

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

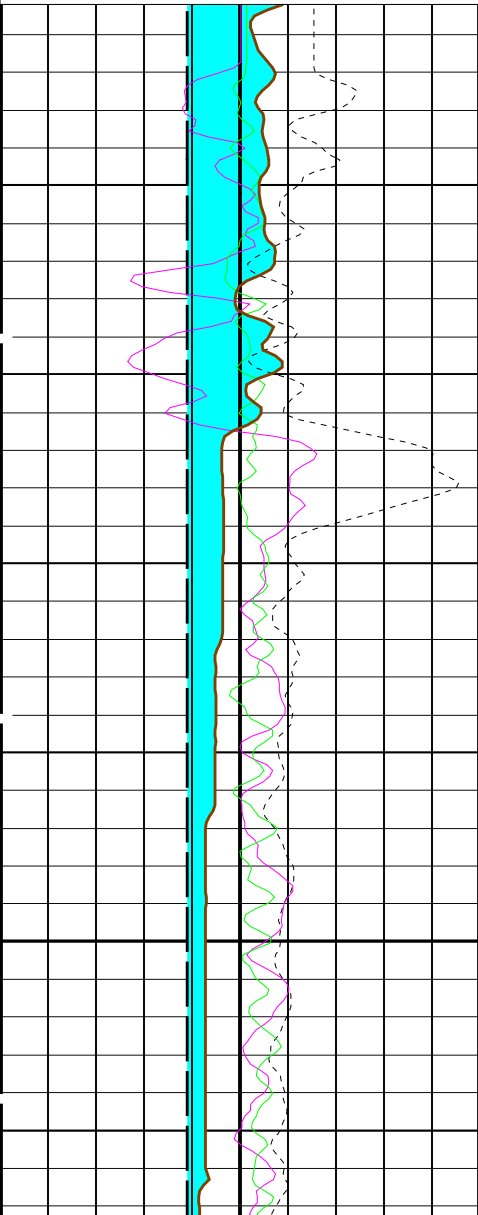
Washout
From BS to HLDS_CALIPER

Mudcake
From HLDS_CALIPER to BS

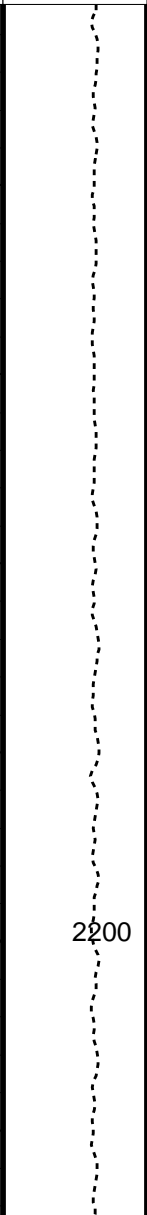
HLDS Caliper (LCAL)
6 (IN) 16

Bit Size (BS)
6 (IN) 16

HLDS Bulk Density Correction (DRH)
-0.25 (G/C3) 0.25



Tension (TENS) (LBF)
10000 0



HLDS Short Spaced Bulk Density (RHS)
2 (G/C3) 3

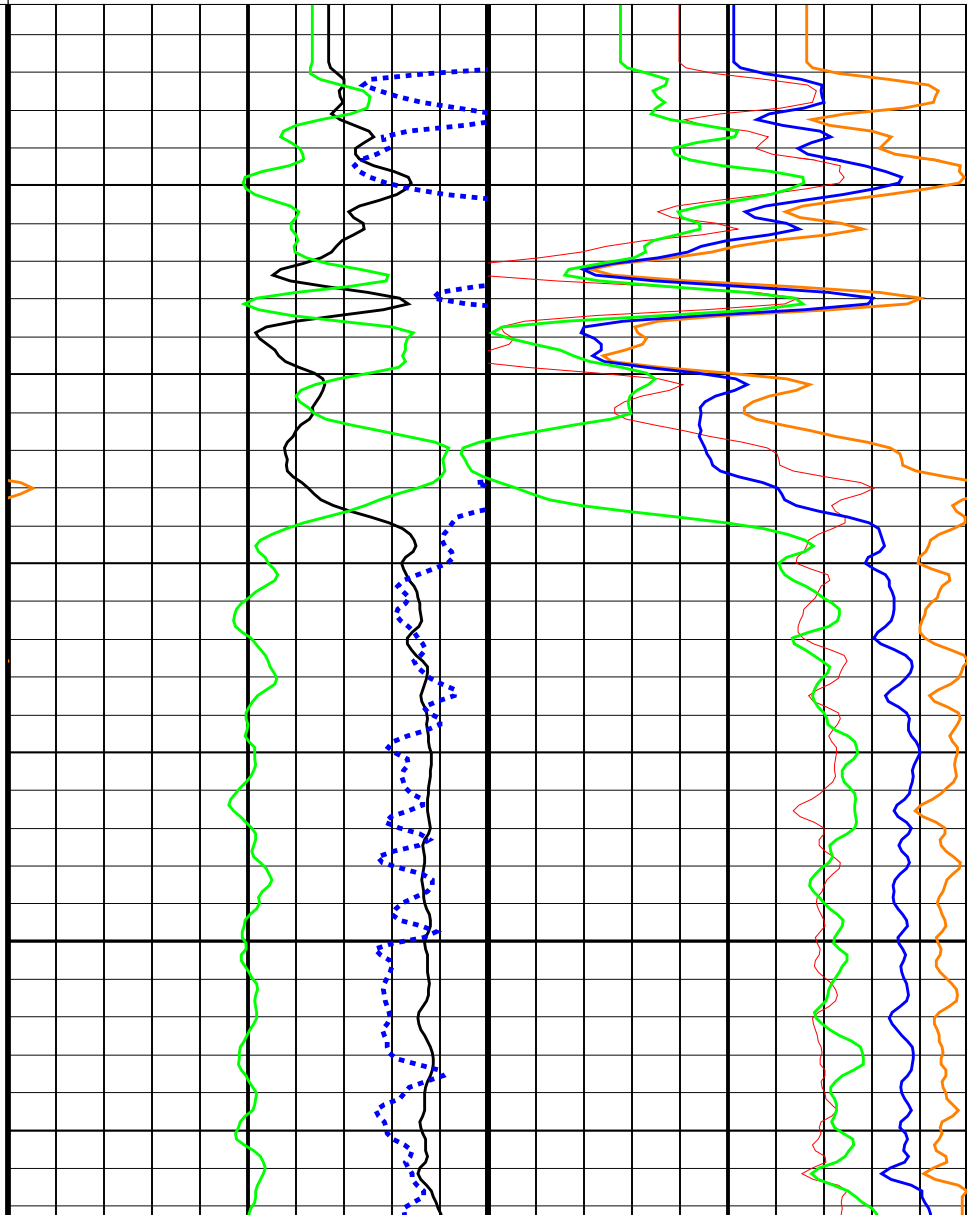
HLDS Long Spaced Photoelectric Effect (PEFL)
0 (----) 10

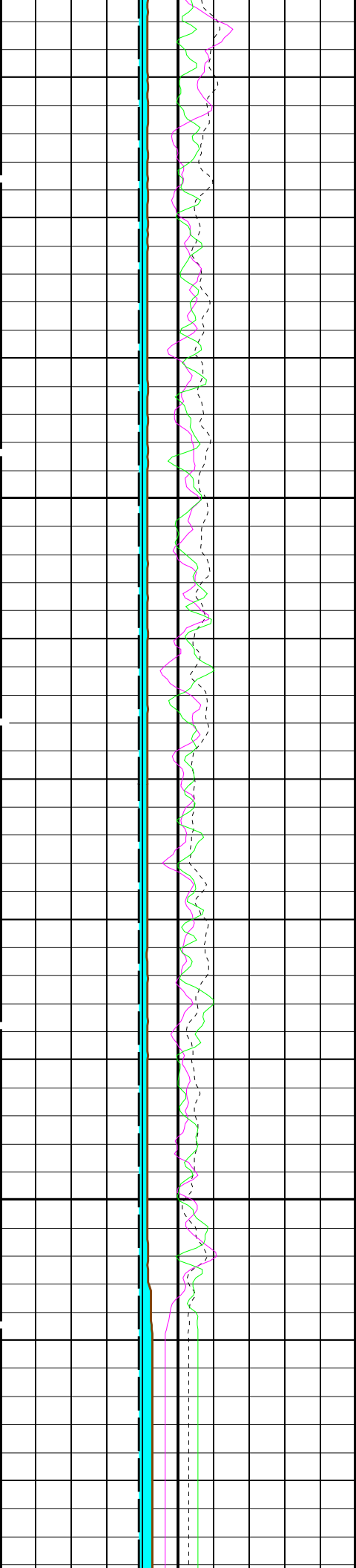
HLDS Short Spaced Photoelectric Effect (PEFS)
0 (----) 10

HLDS Long Spaced Bulk Density (RHL)
2 (G/C3) 3

HLDS SS2 Density (RHS3) (G/C3) 3
HLDS Density Porosity (DPO) (PU) 0

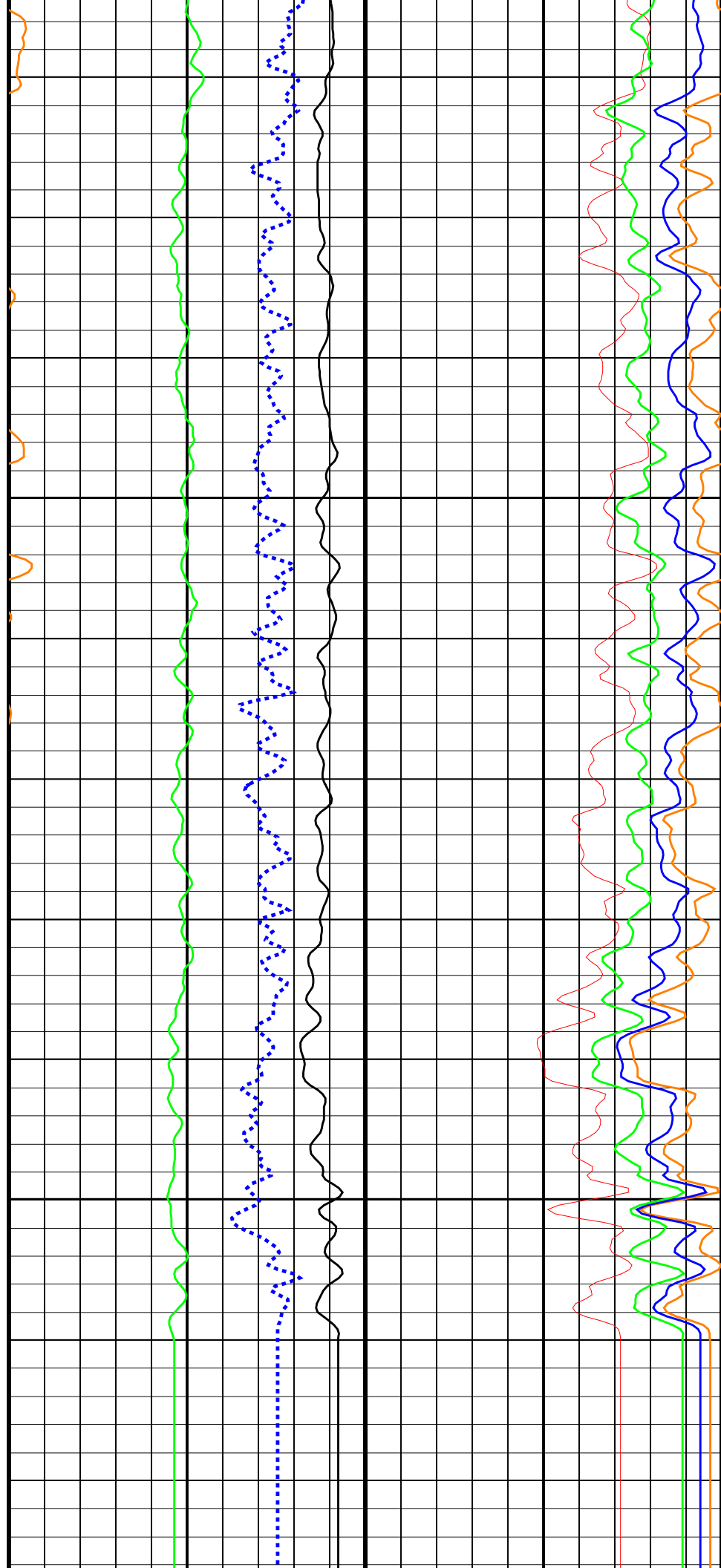
HLDS Bulk Density (RHOM)
2 (G/C3) 3

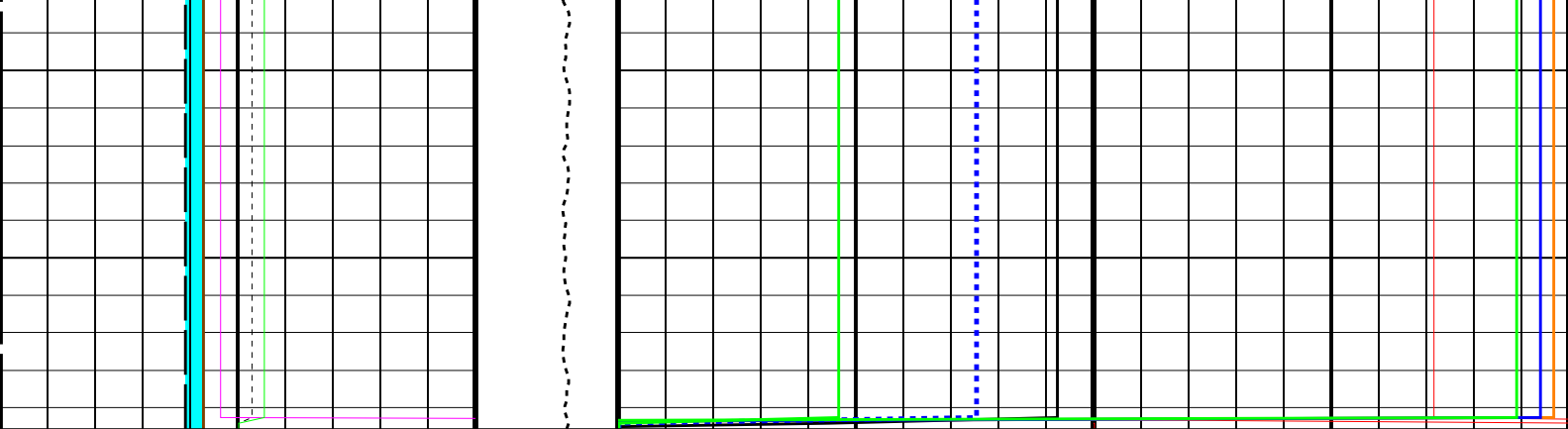




2225

2250





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	Bit Size	9.875	IN

Format: HLDSDensityPE Vertical Scale: 1:200 Graphics File Created: 23-Dec-2023 05:39

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_015LUP	FN:12	PRODUCER	23-Dec-2023 05:39
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Output DLIS Files

DEFAULT

MSS_LDEO_HRLA_LDL_015LUP

FN:12

PRODUCER

23-Dec-2023 05:39

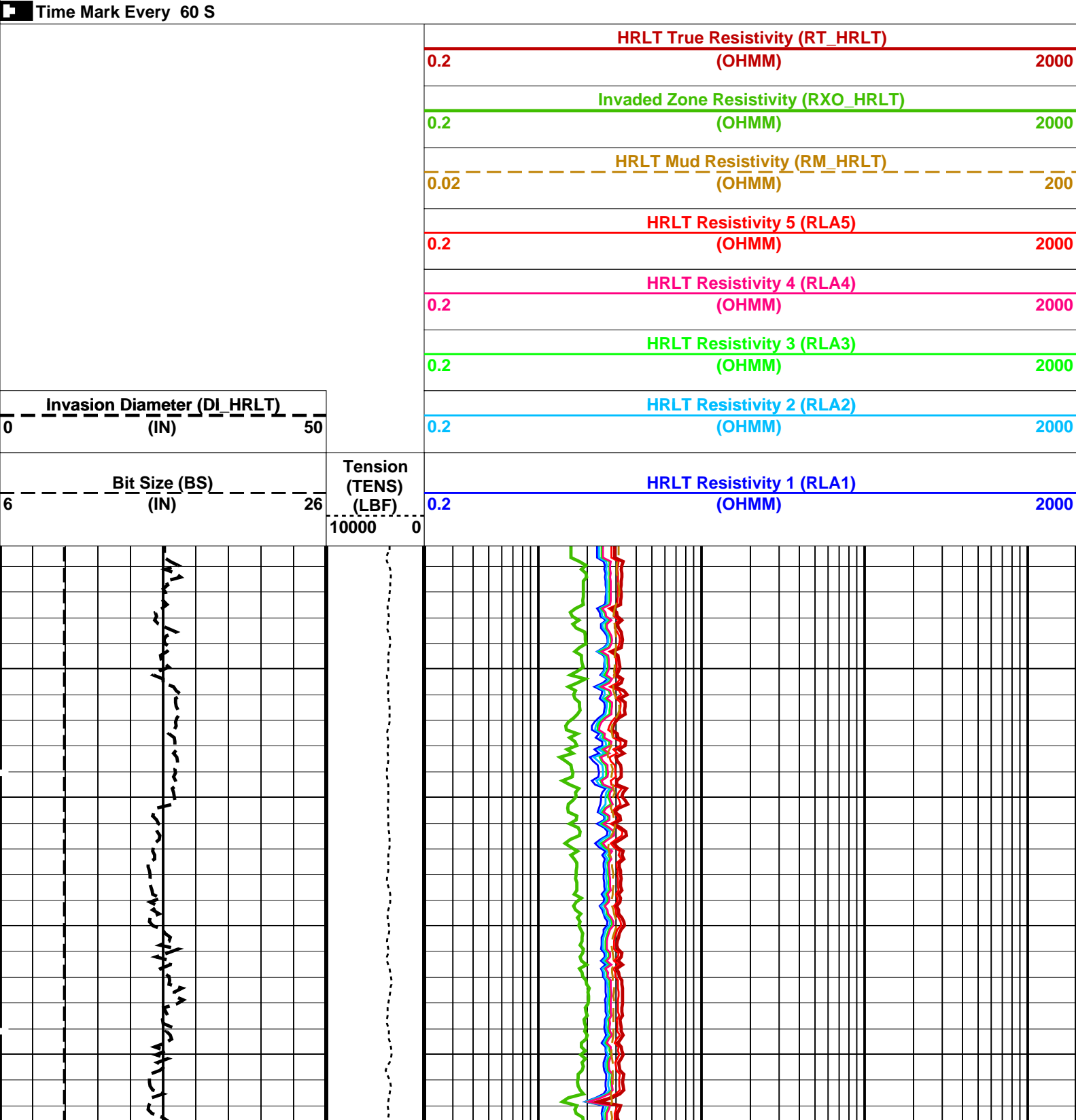
2274.6 M

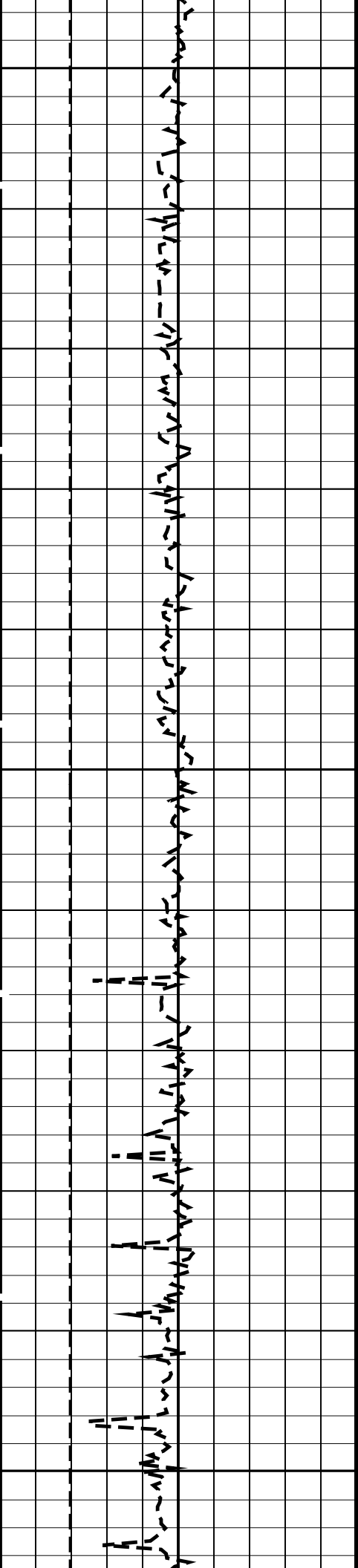
2176.3 M

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

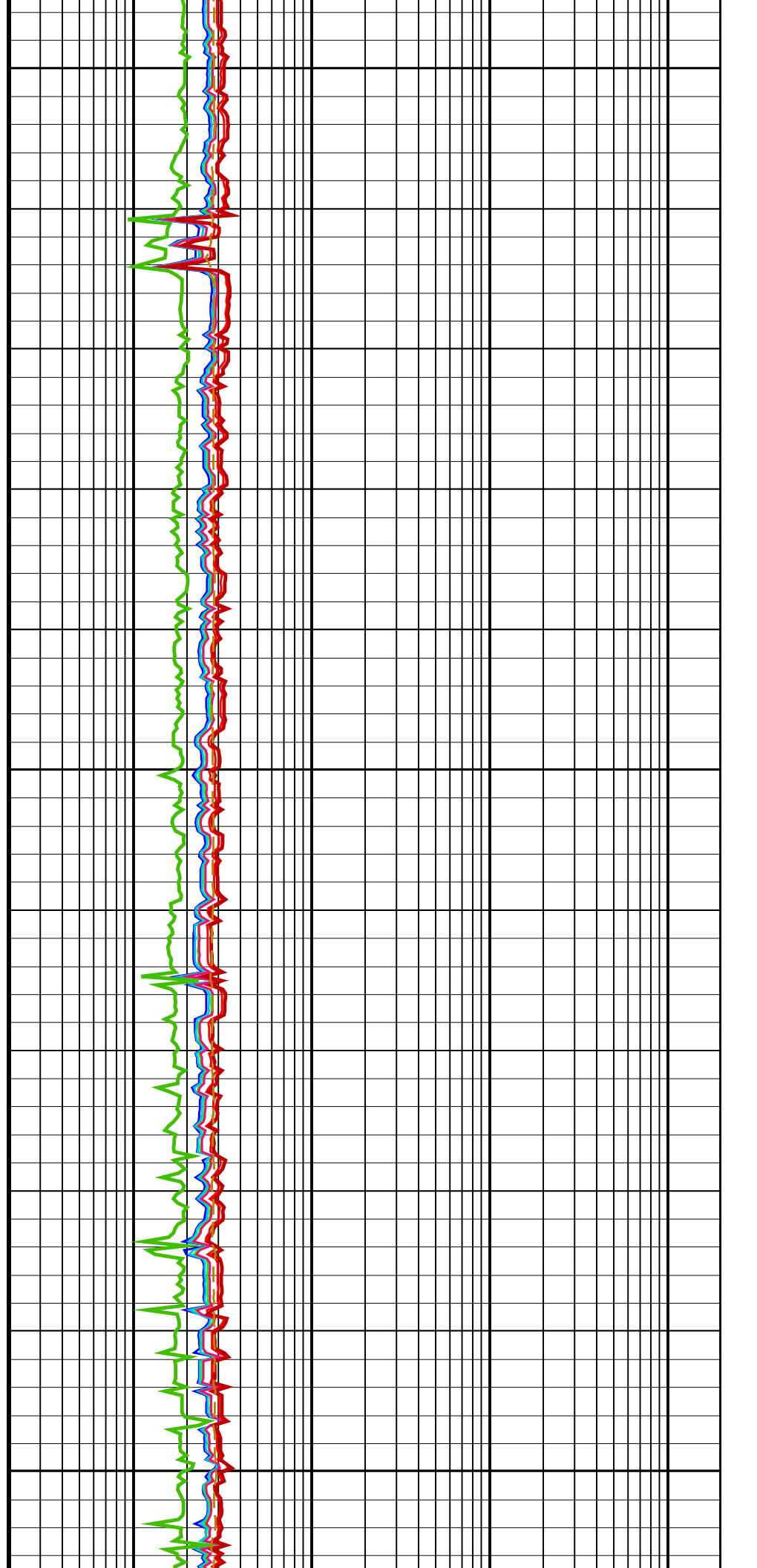


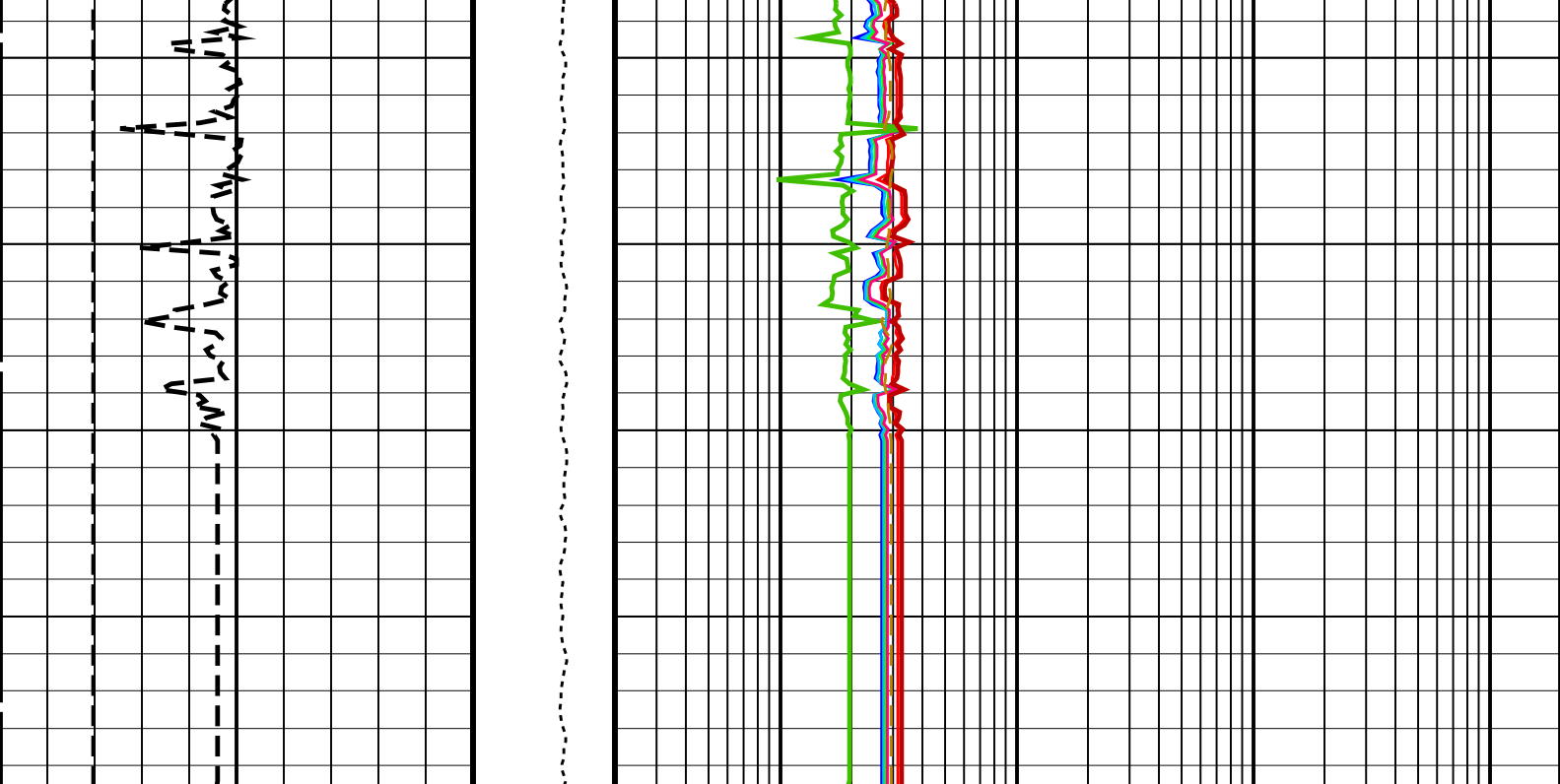


2200

2225

2250





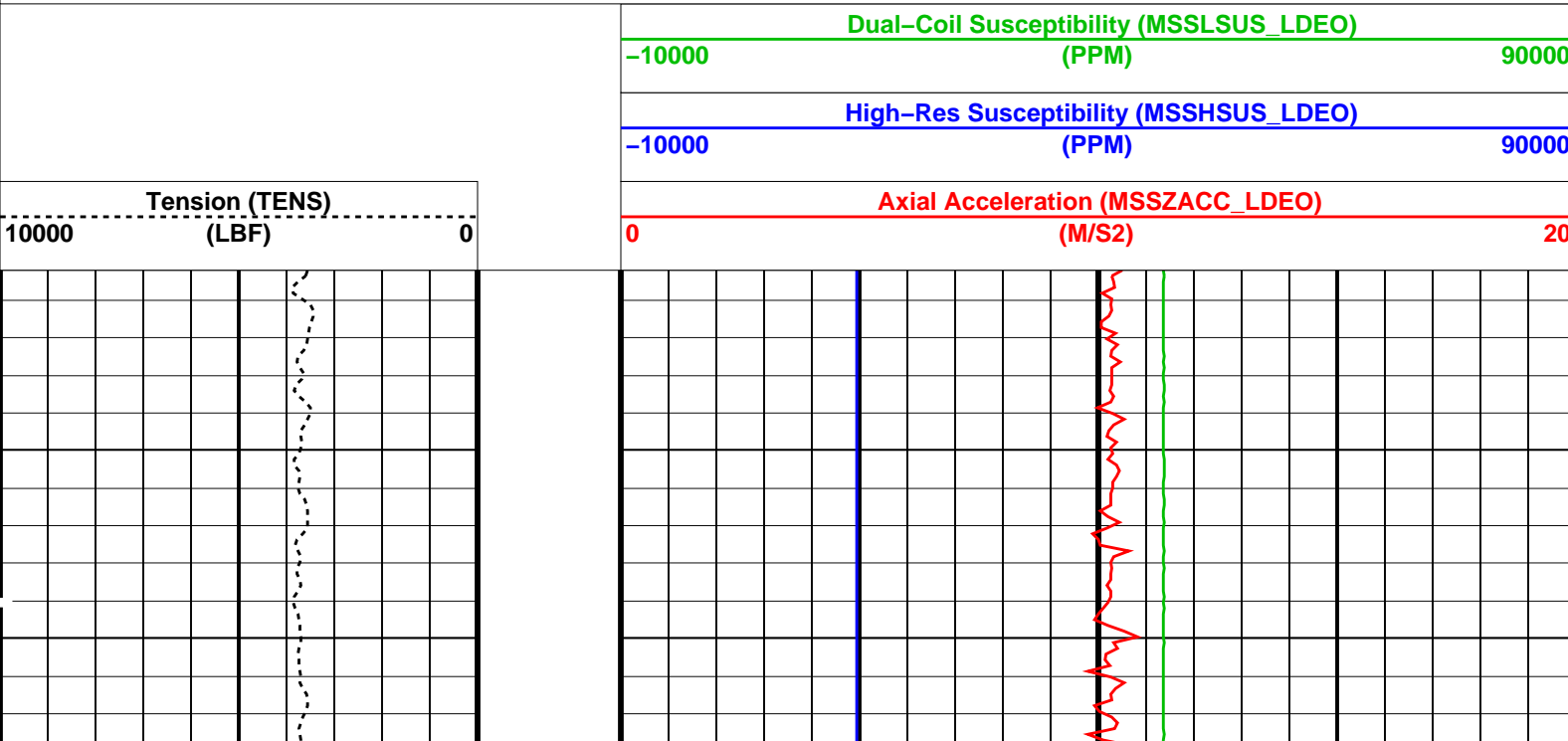
Bit Size (BS) (IN)	Tension (TENS) (LBF)	HRLT Resistivity 1 (RLA1) (OHMM)	2000
6	10000 0	0.2	
Invasion Diameter (DI_HRLT) (IN)		HRLT Resistivity 2 (RLA2) (OHMM)	2000
0		0.2	
		HRLT Resistivity 3 (RLA3) (OHMM)	2000
		0.2	
		HRLT Resistivity 4 (RLA4) (OHMM)	2000
		0.2	
		HRLT Resistivity 5 (RLA5) (OHMM)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

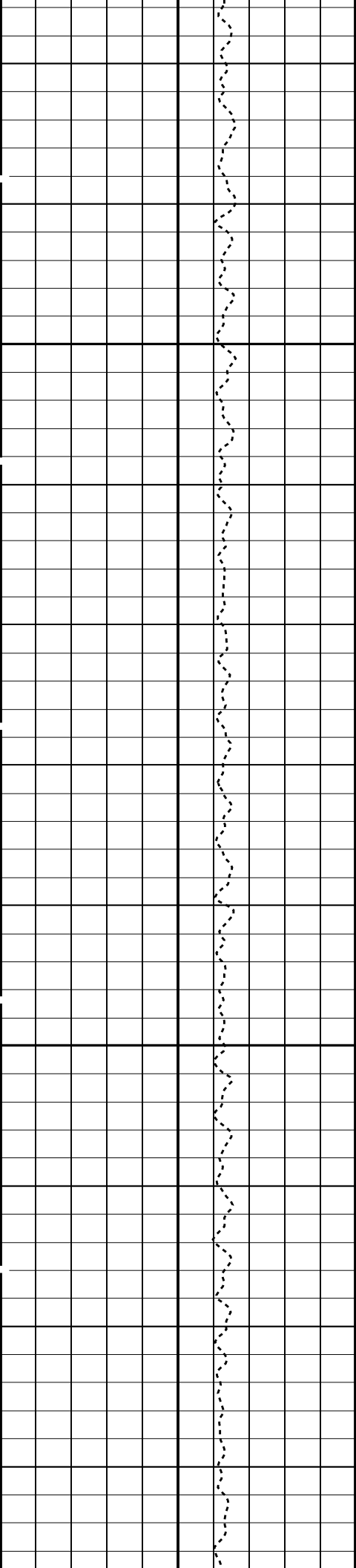
PIP SUMMARY

Time Mark Every 60 S

Parameters

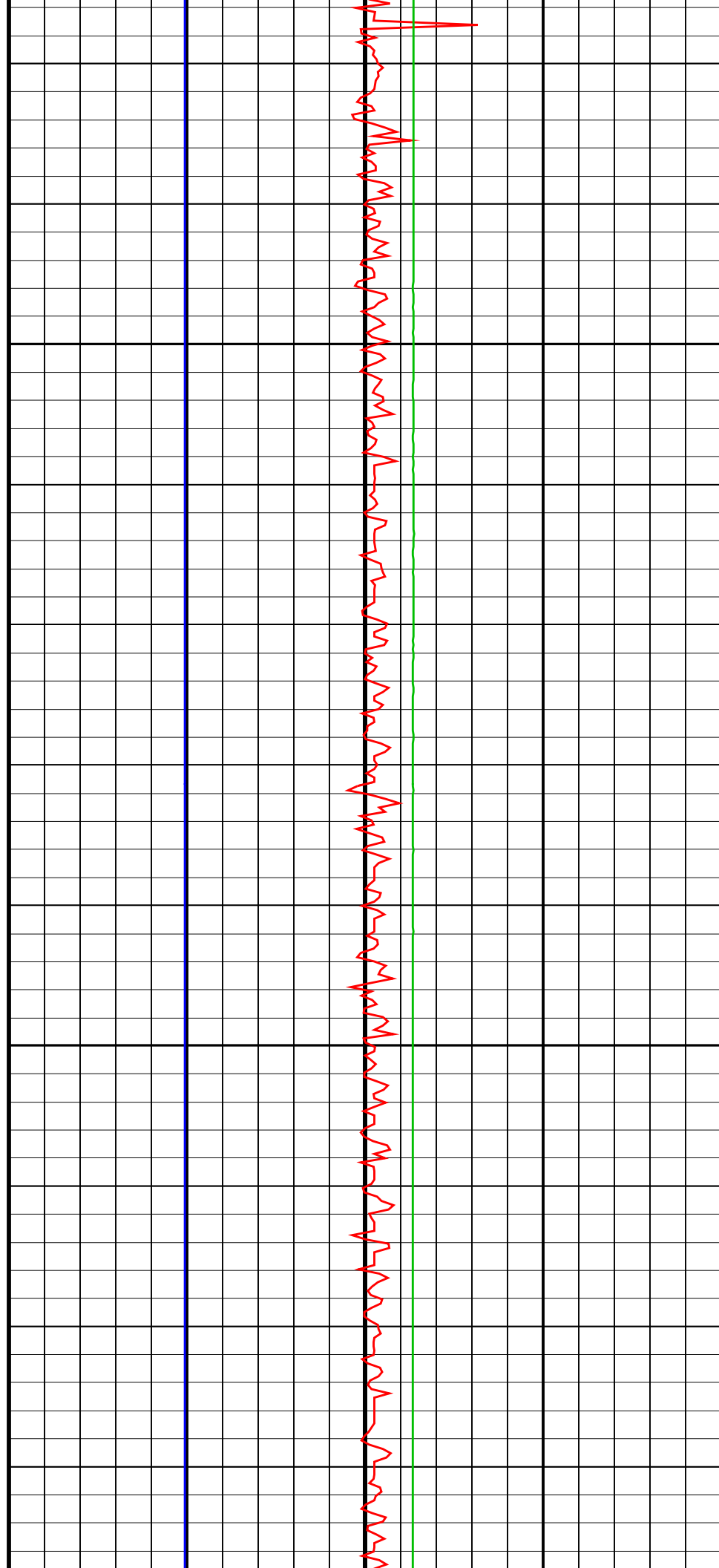
DLIS Name	Description	Value
HRLT-B: High Resolution Laterolog Array - B		
BHT	Bottom Hole Temperature (used in calculations)	35 DEGF
GCSE	Generalized Caliper Selection	LCAL
GGRD	Geothermal Gradient	0.01 DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
KFAC_HRLT	HRLT K Factor Option	SONDE
PROCINV	Inversion Selection	ON
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO
PROCMFO	Mechanical Standoff Fin Size	0 IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute
PROCSPO	Sonde Position	Centered
SHT	Surface Hole Temperature	68 DEGF

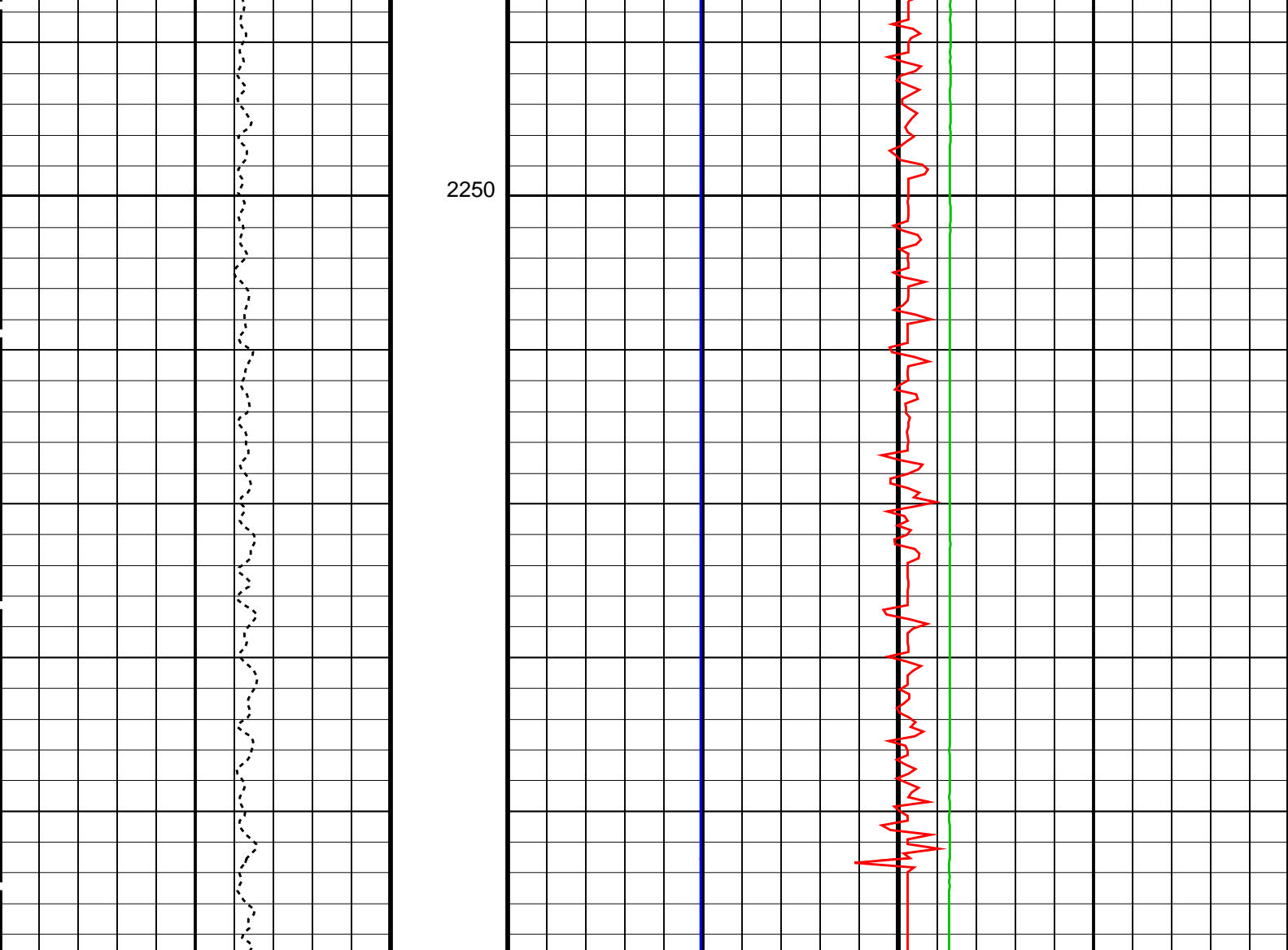




2200

2225





Tension (TENS)
(LBF) 0

Axial Acceleration (MSSZACC_LDEO)		
0	(M/S2)	20
High-Res Susceptibility (MSSHSUS_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: 23-Dec-2023 05:39

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_015LUP FN:12 PRODUCER 23-Dec-2023 05:39

Company: International Ocean Discovery Program Well: Expedition 401, Site U1609A

Output DLIS Files

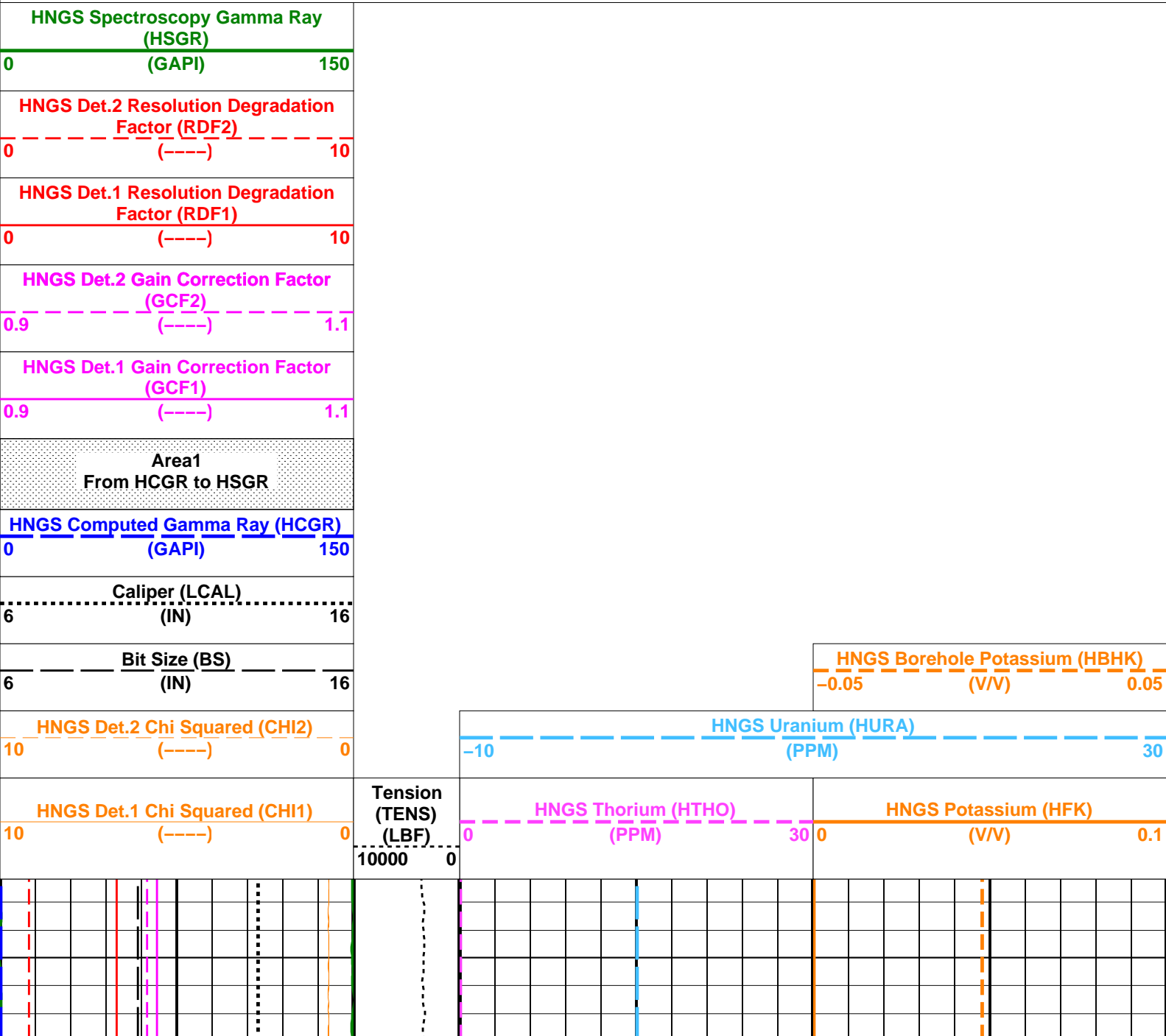
DEFAULT MSS_LDEO_HRLA_LDL_017LUP FN:13 PRODUCER 23-Dec-2023 05:59 2274.6 M 1652.2 M

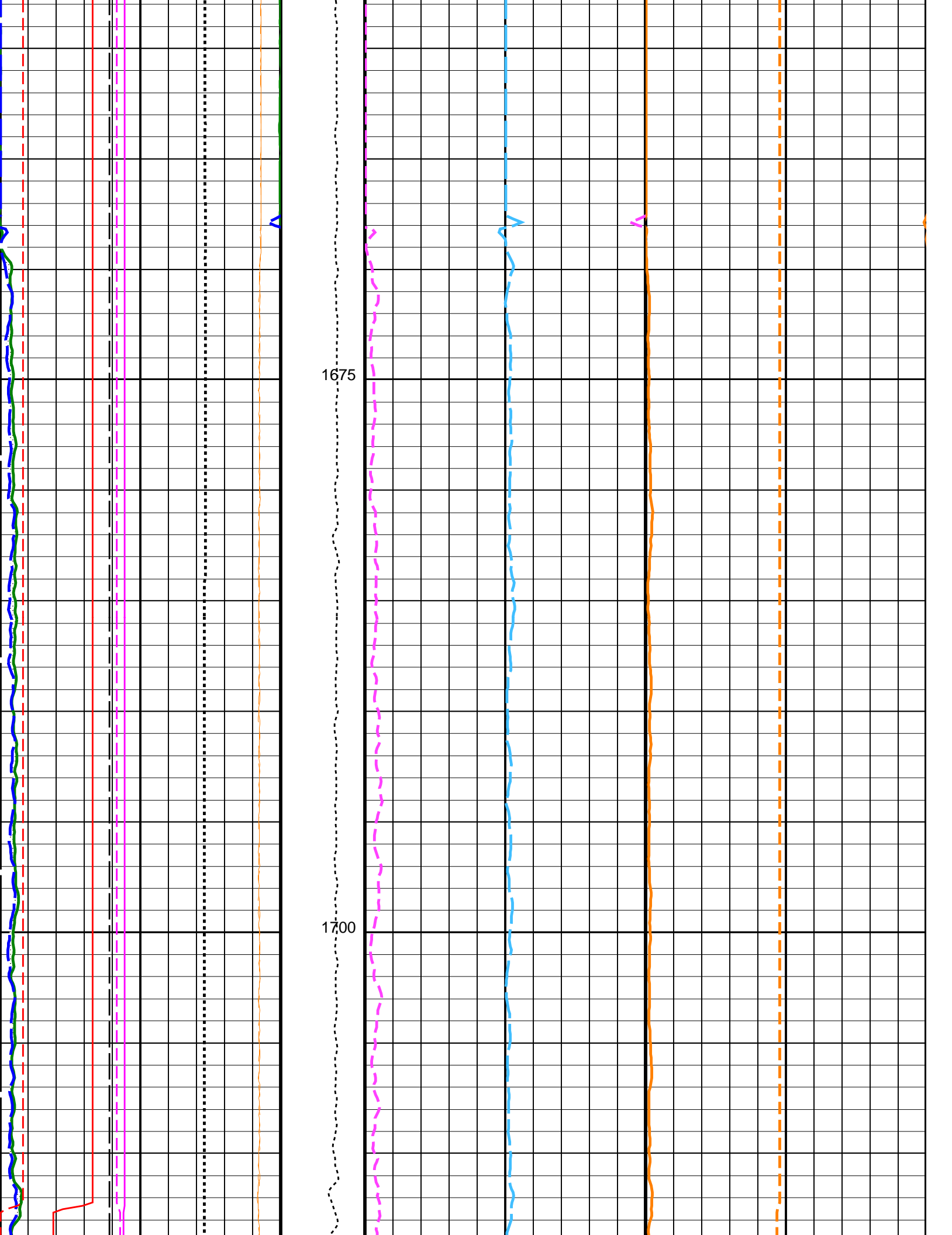
OP System Version: 19C0-187

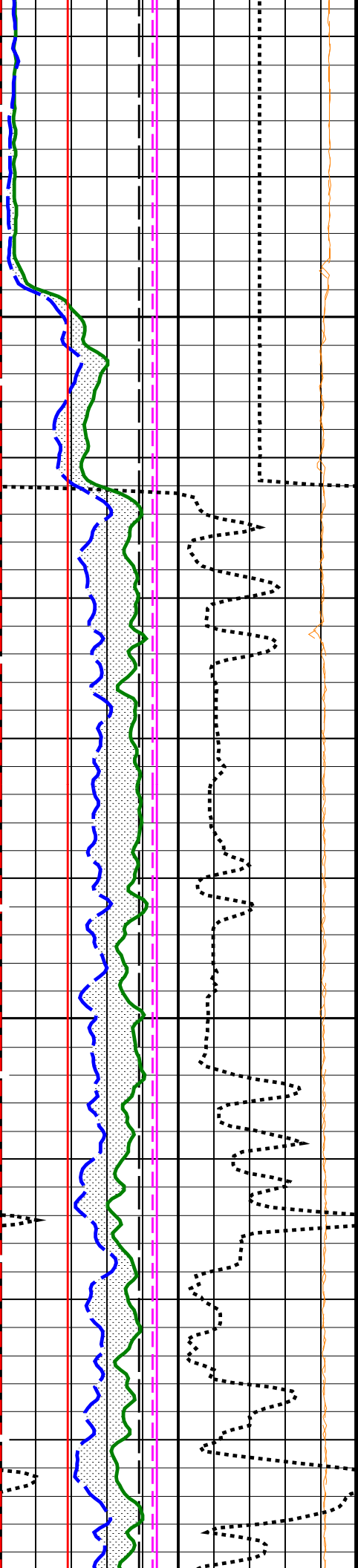
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

PIP SUMMARY

Time Mark Every 60 S

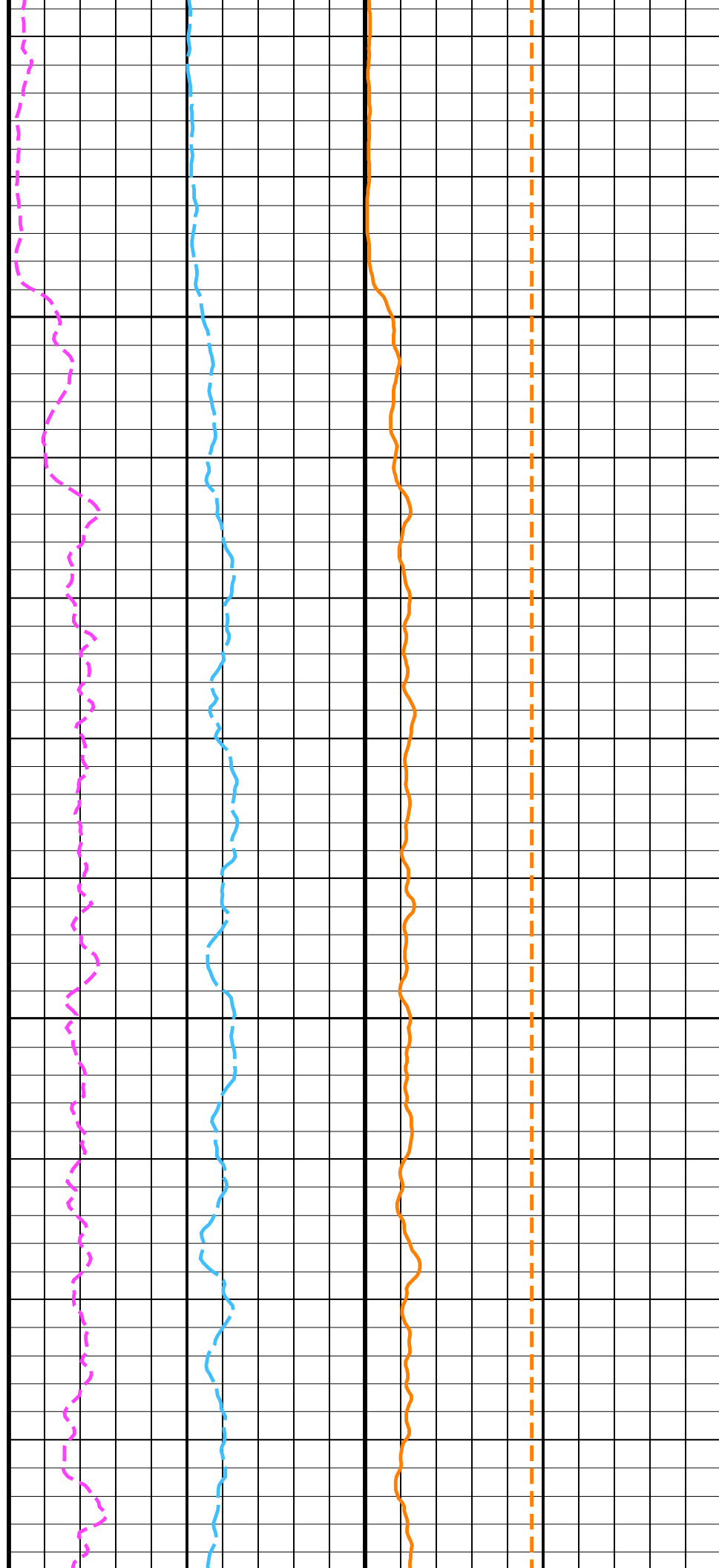


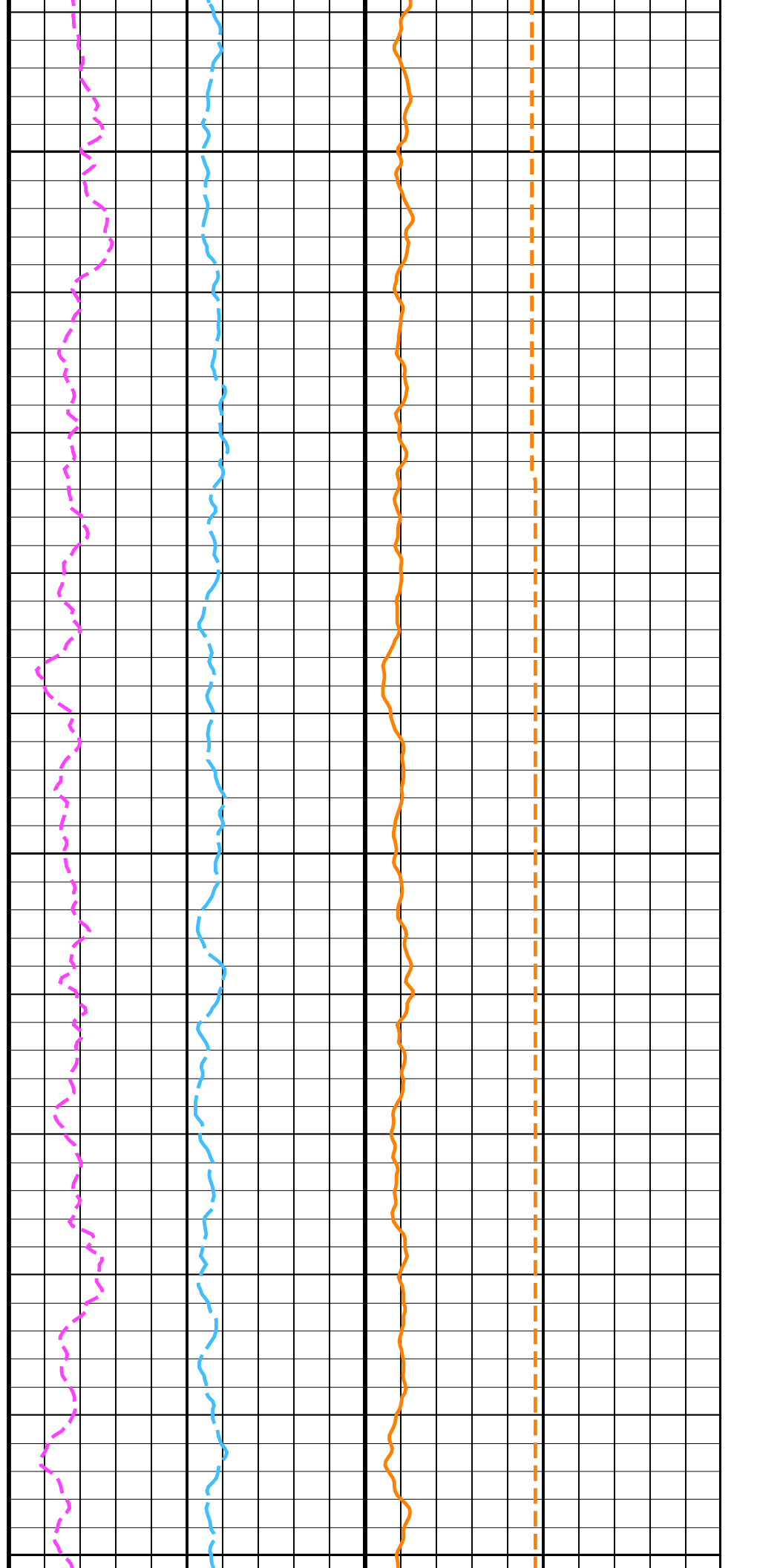
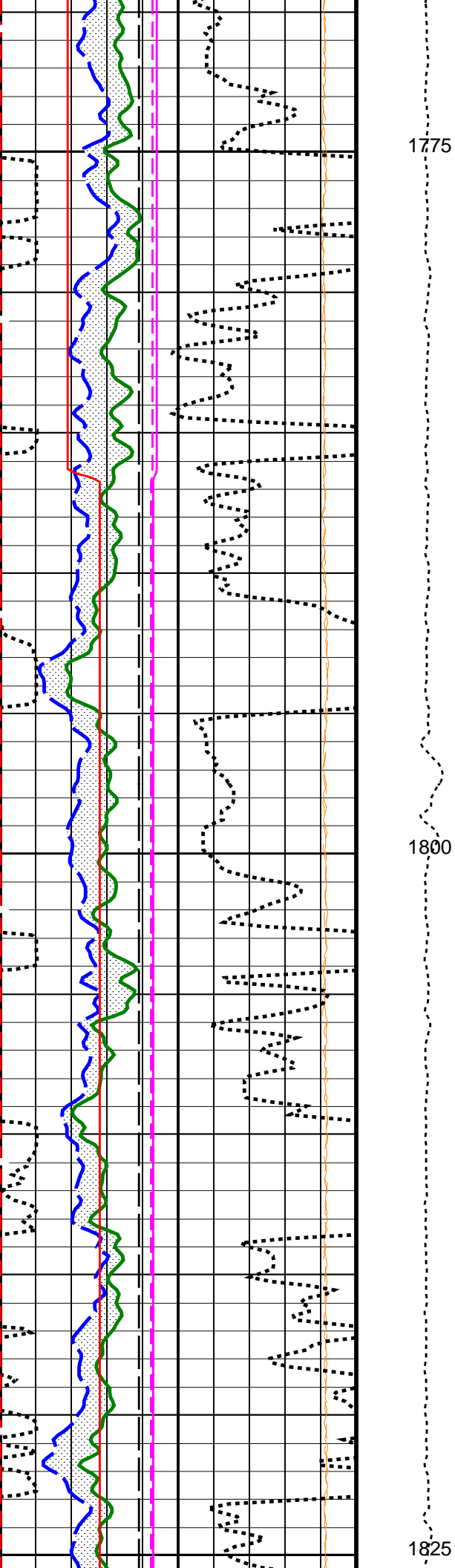


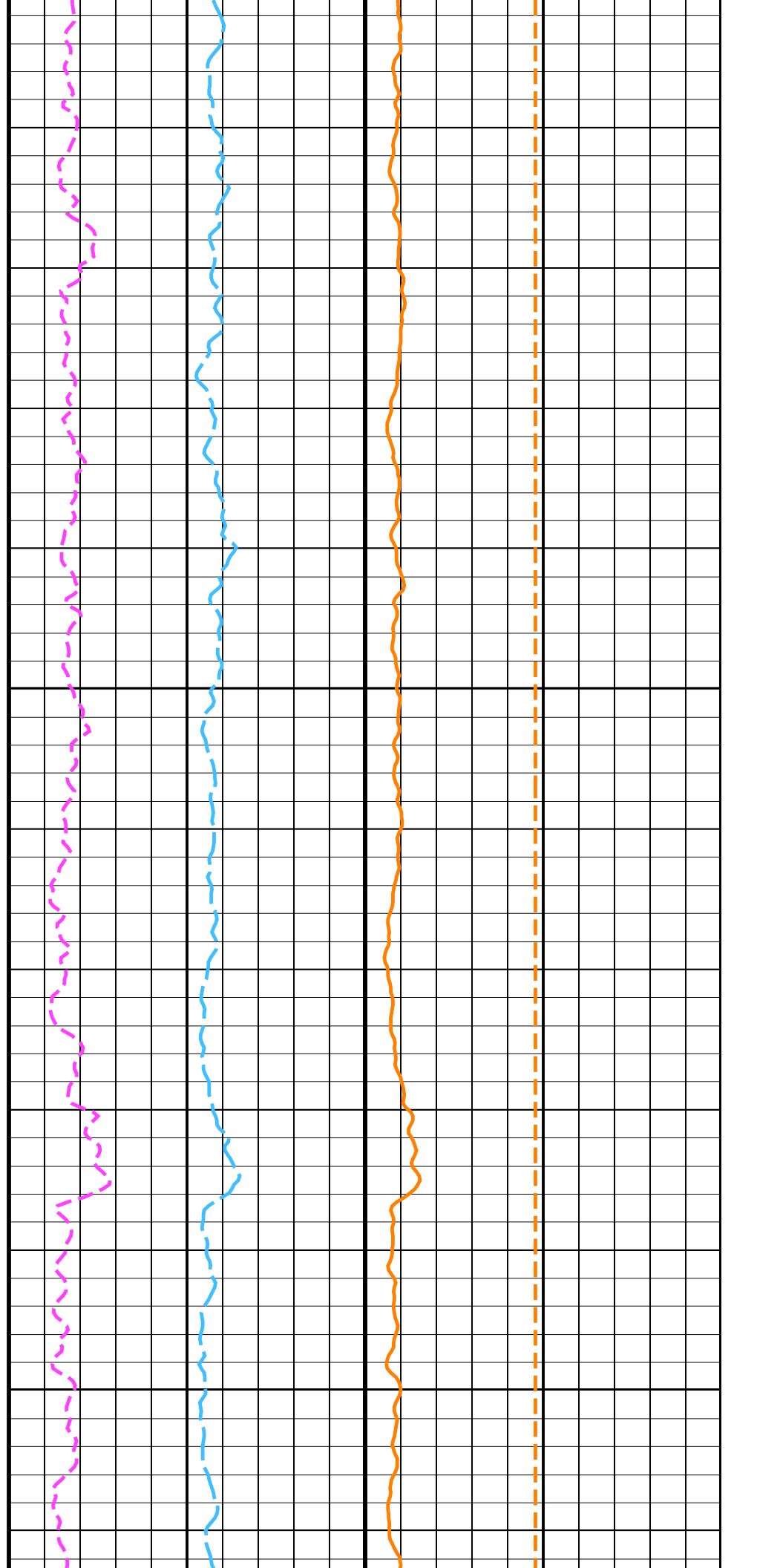
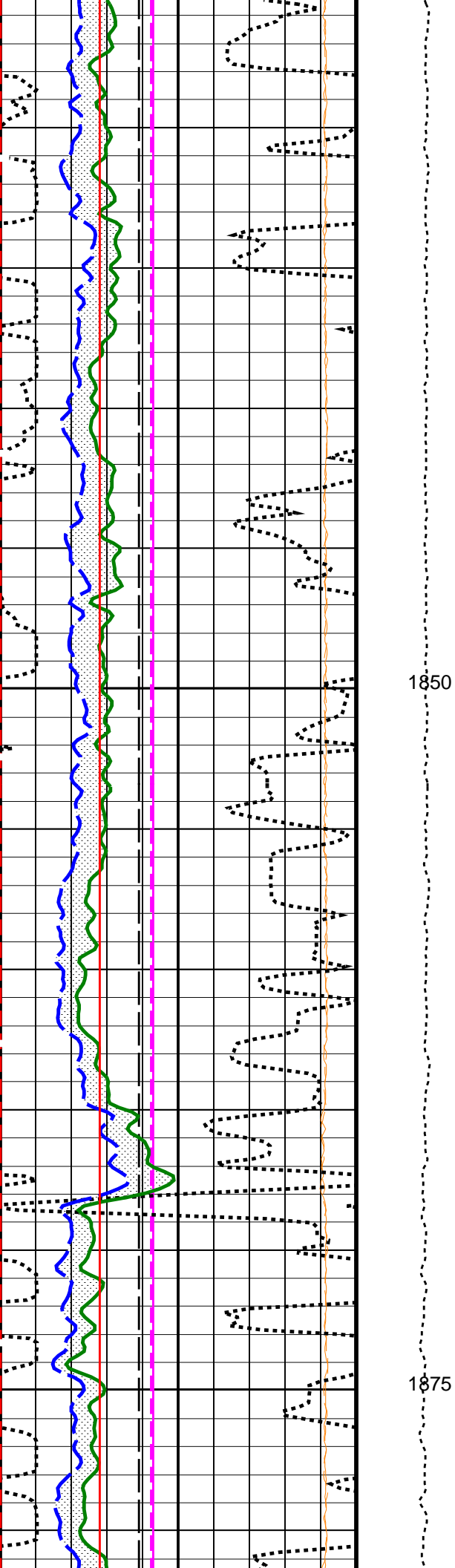


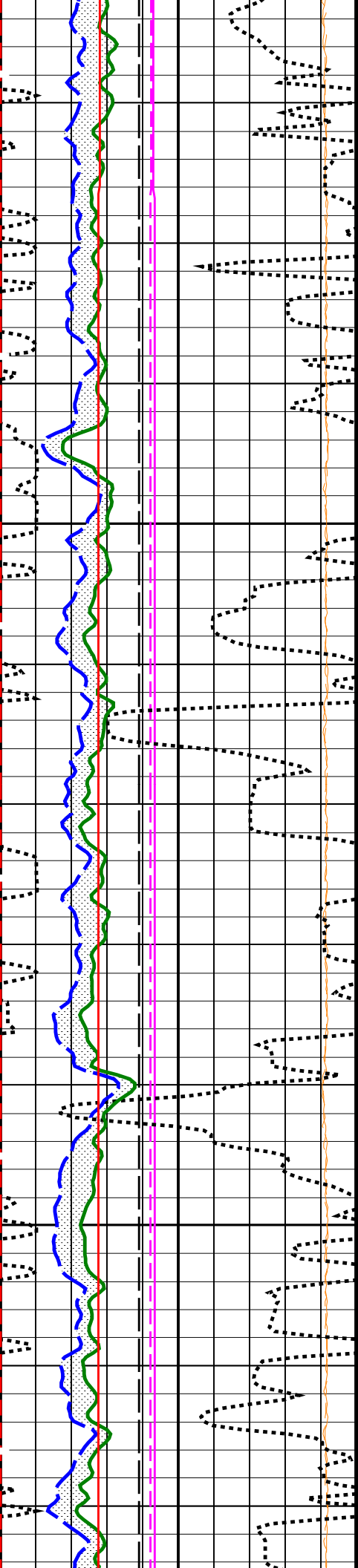
1725

1750



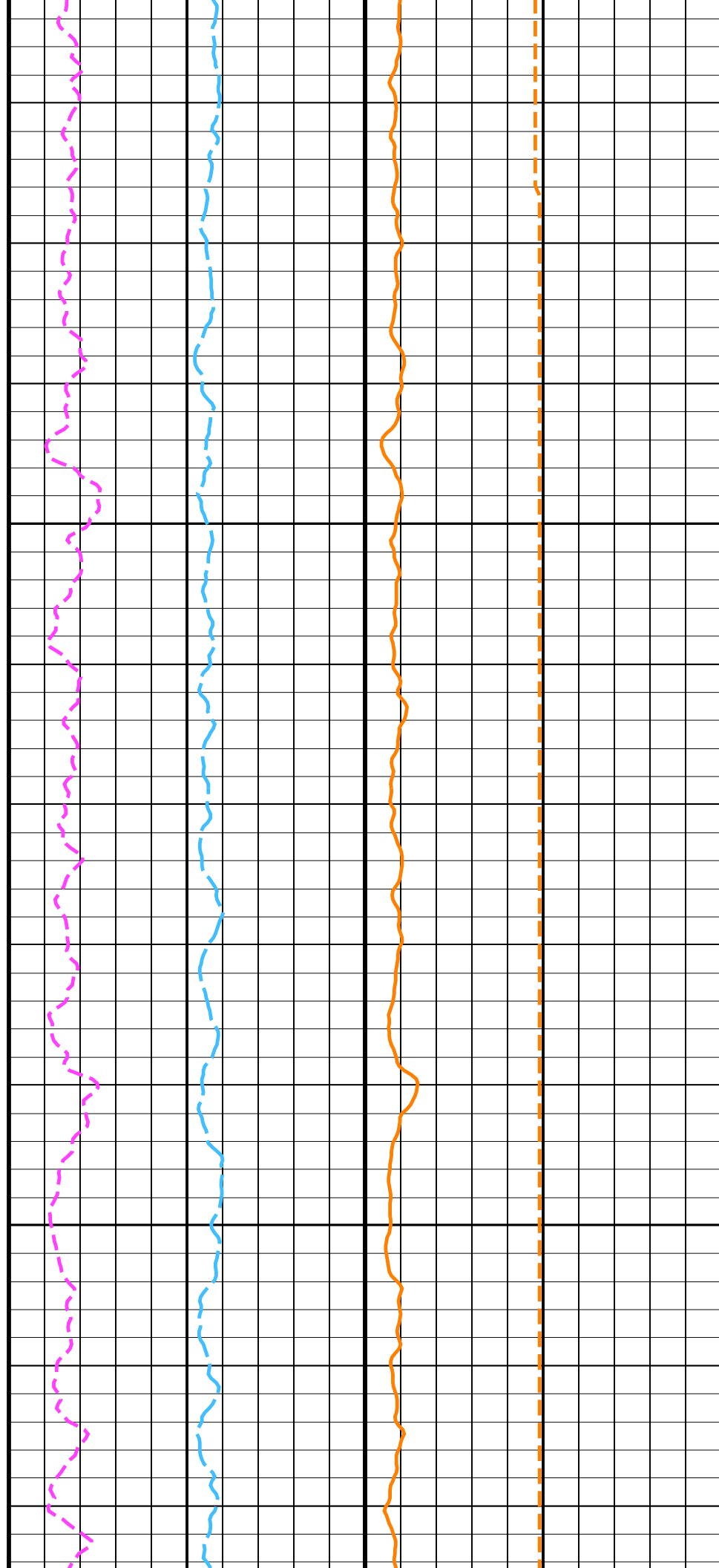


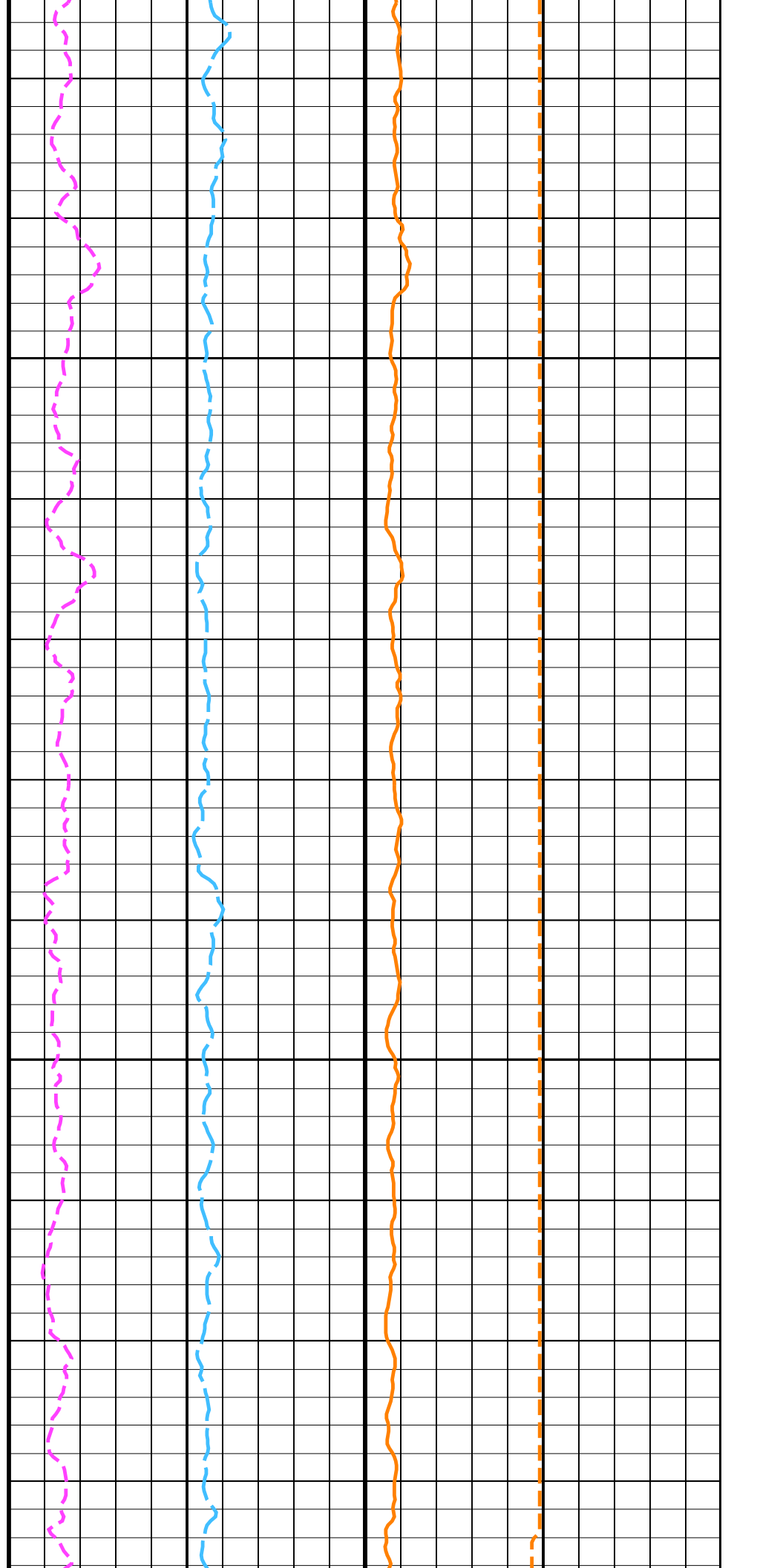
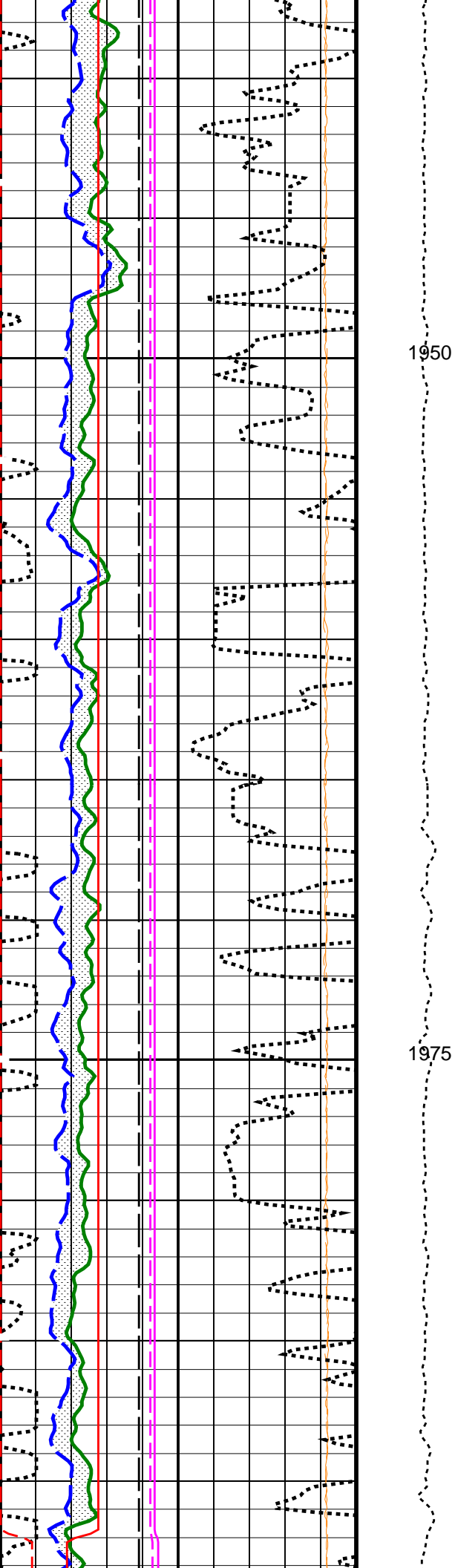


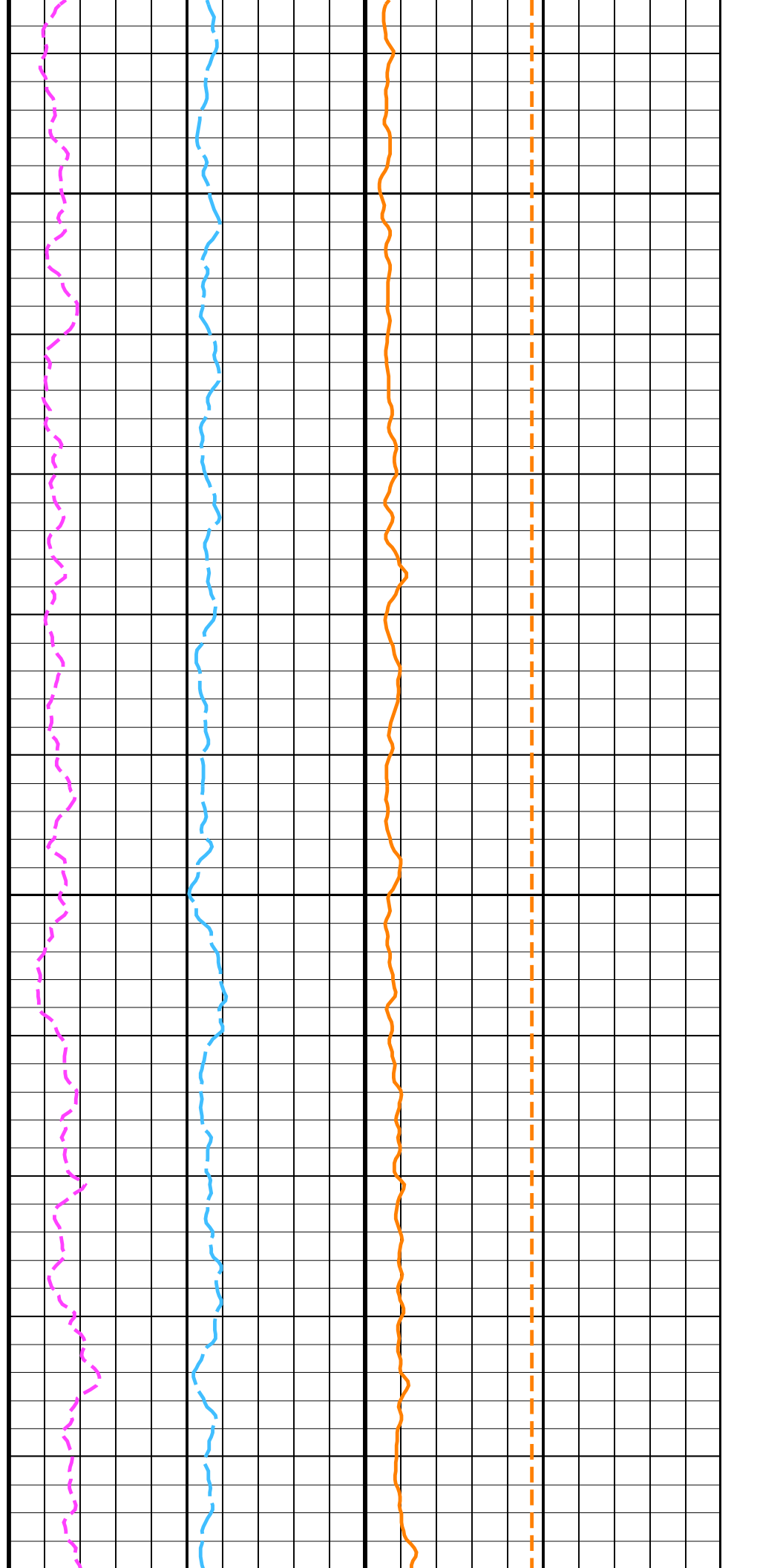
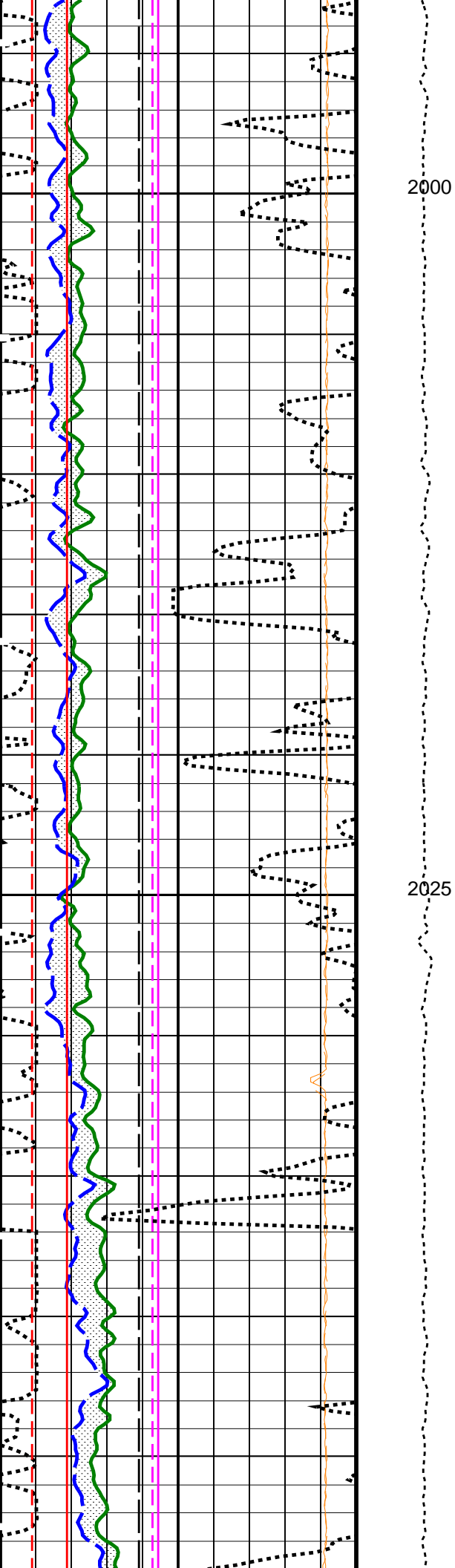


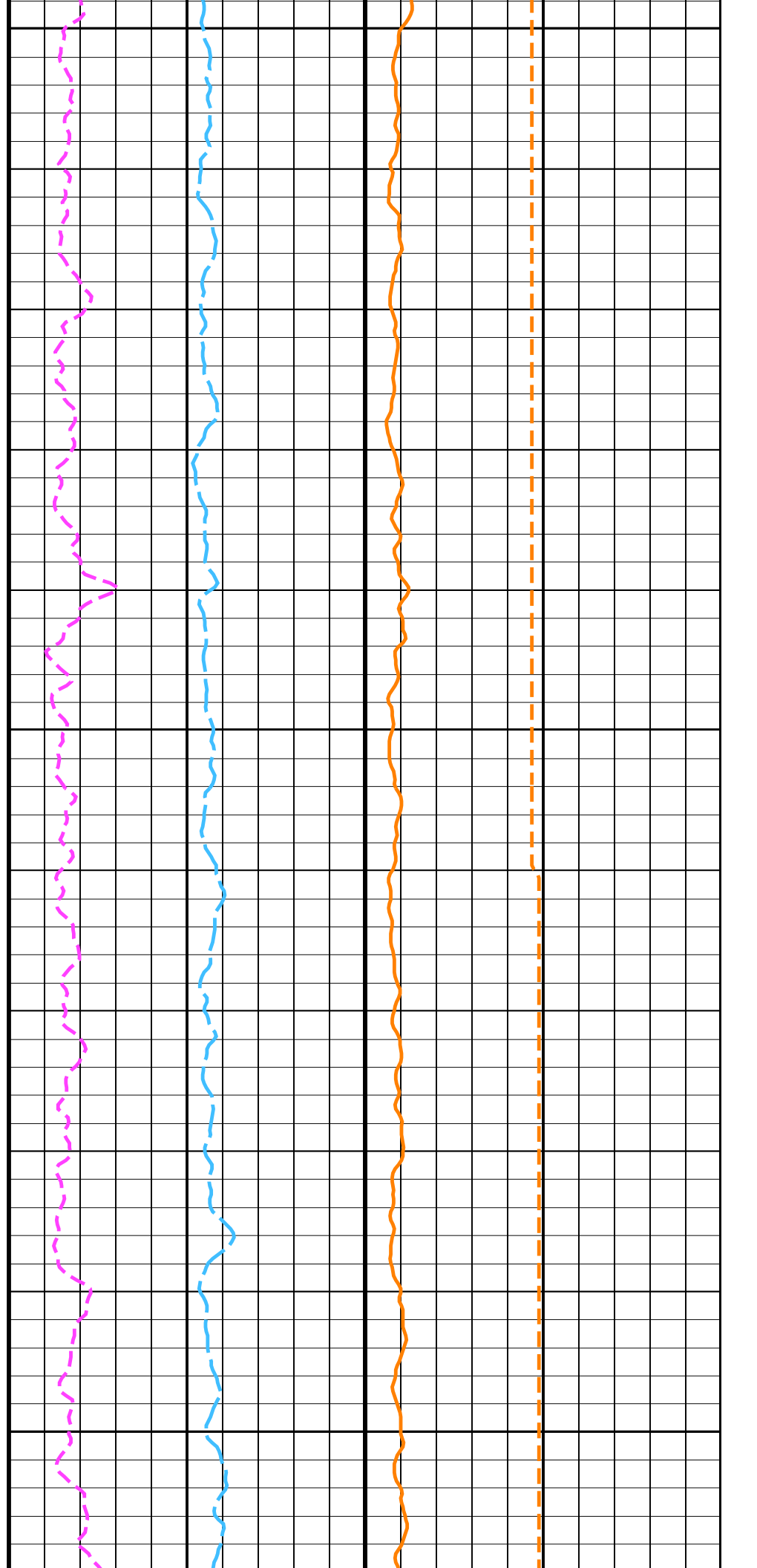
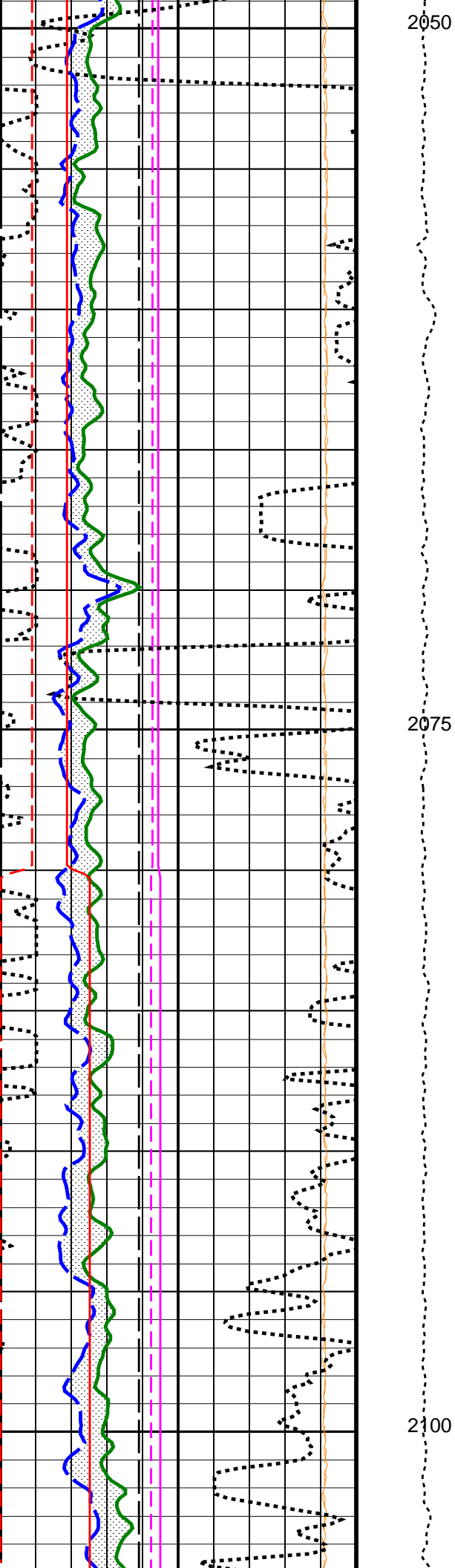
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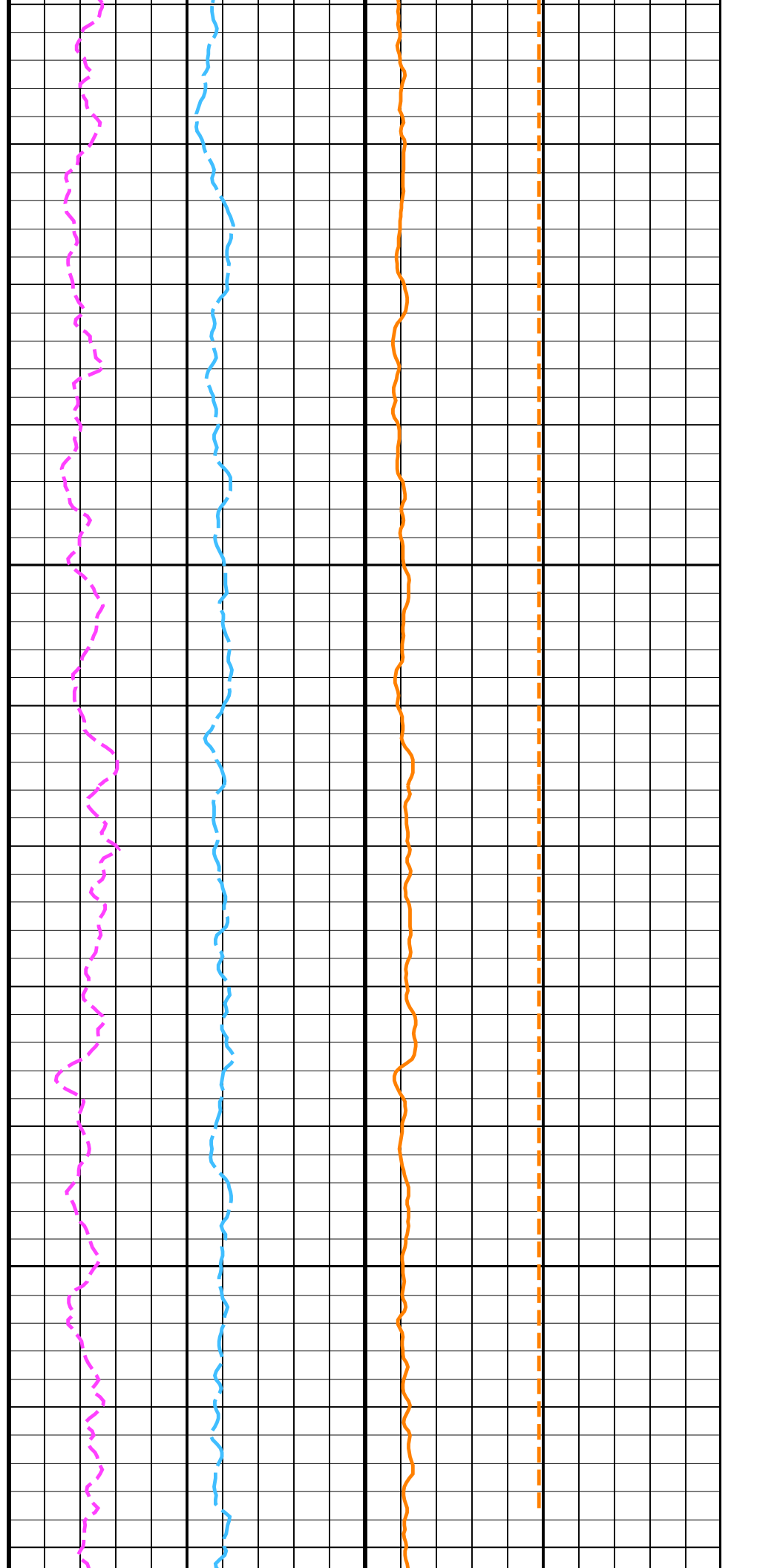
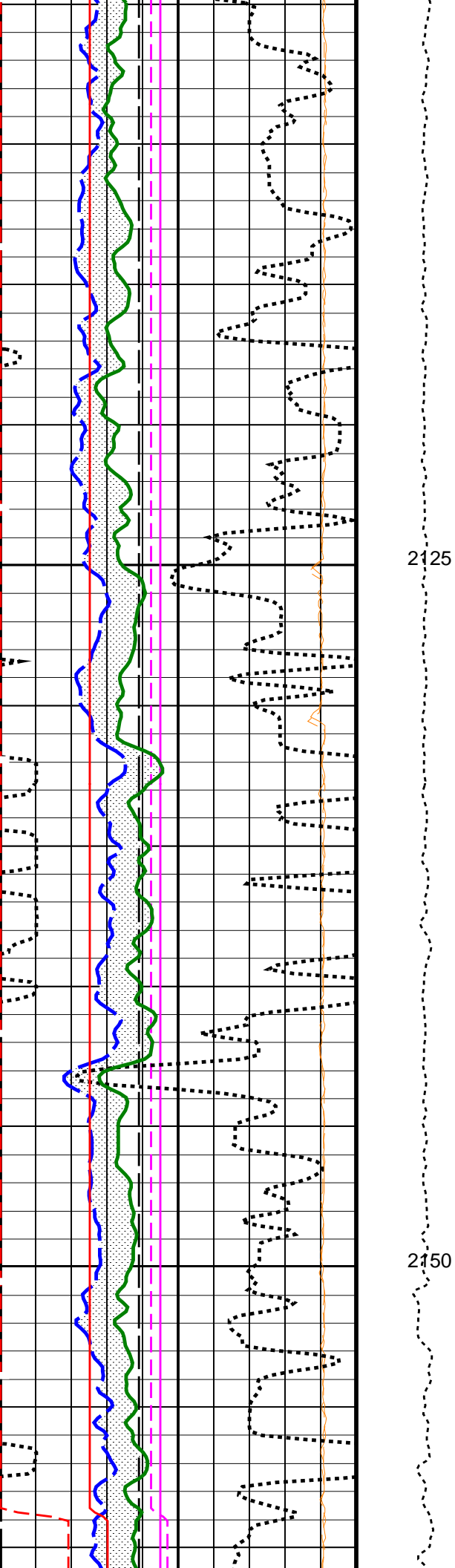
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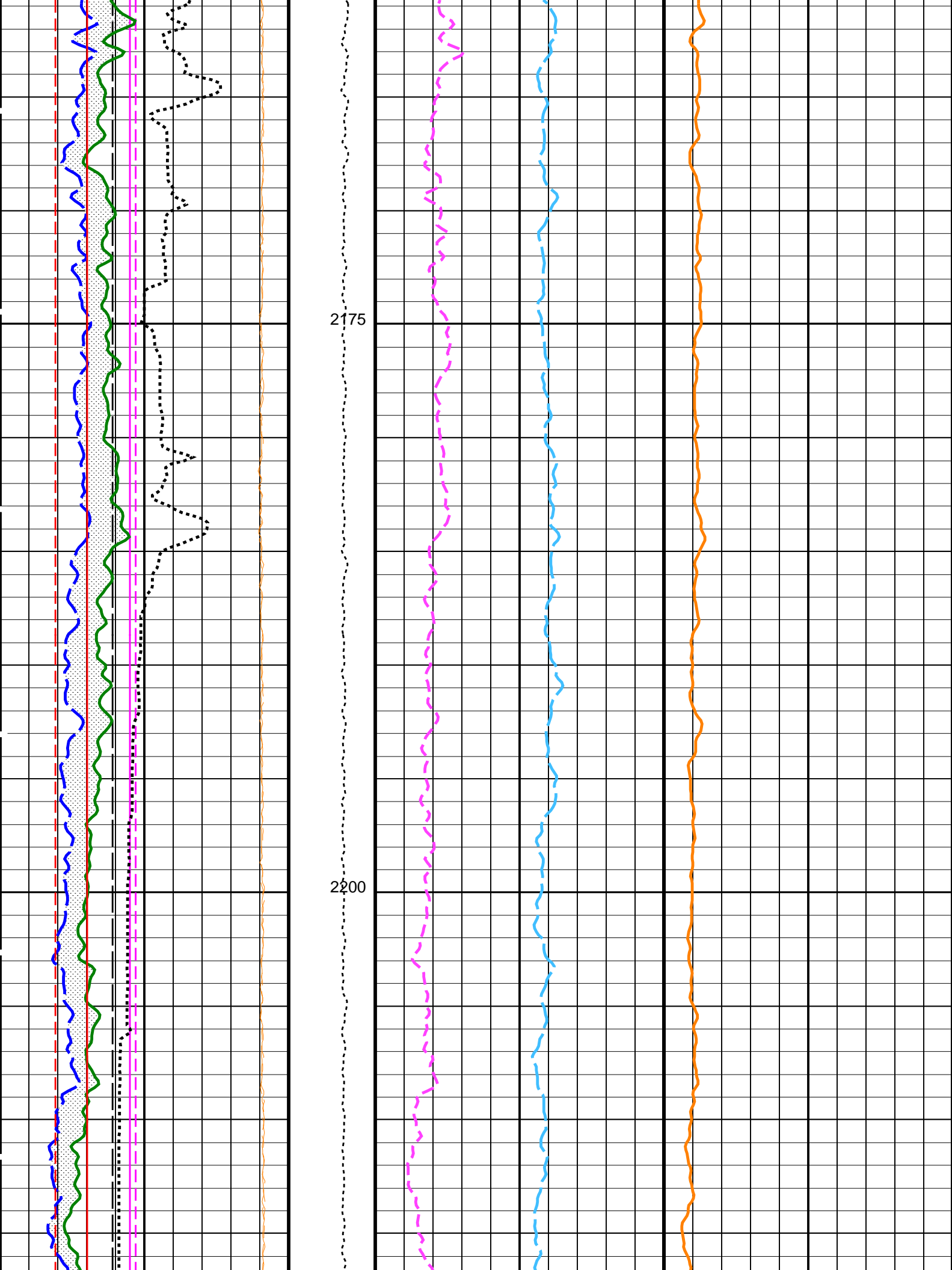


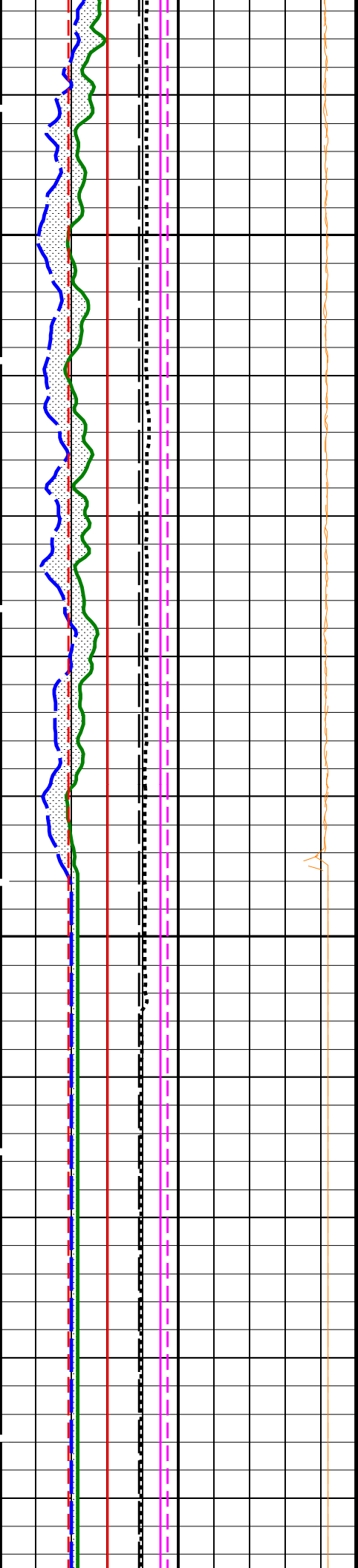












2225

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<div> <div>HNGS Det.1 Chi Squared (CHI1)</div> <div>10-----0</div> </div>			<div> <div>Tension (TENS) (LBF)</div> <div>100000</div> </div>			<div> <div>HNGS Thorium (HTHO) (PPM)</div> <div>0-----30</div> </div>			<div> <div>HNGS Potassium (HFK) (V/V)</div> <div>0-----0.1</div> </div>		
<div> <div>HNGS Det.2 Chi Squared (CHI2)</div> <div>10-----0</div> </div>						<div> <div>HNGS Uranium (HURA) (PPM)</div> <div>-10-----30</div> </div>					
<div> <div>Bit Size (BS) (IN)</div> <div>6-----16</div> </div>									<div> <div>HNGS Borehole Potassium (HBHK) (V/V)</div> <div>-0.05-----0.05</div> </div>		
<div> <div>Caliper (LCAL) (IN)</div> <div>6-----16</div> </div>											
<div> <div>HNGS Computed Gamma Ray (HCGR) (GAPI)</div> <div>0-----150</div> </div>											
<div> <div>Area1 From HCGR to HSGR</div> </div>											
<div> <div>HNGS Det.1 Gain Correction Factor (GCF1)</div> <div>0.9-----1.1</div> </div>											
<div> <div>HNGS Det.2 Gain Correction Factor (GCF2)</div> <div>0.9-----1.1</div> </div>											
<div> <div>HNGS Det.1 Resolution Degradation Factor (RDF1)</div> <div>0-----10</div> </div>											
<div> <div>HNGS Det.2 Resolution Degradation Factor (RDF2)</div> <div>0-----10</div> </div>											
<div> <div>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</div> <div>0-----150</div> </div>											

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	-0.0338331	
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	1.04807
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.968602
EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
BS	System and Miscellaneous	
	Bit Size	9.875 IN

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 23-Dec-2023 05:59

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_017LUP	FN:13	PRODUCER 23-Dec-2023 05:59

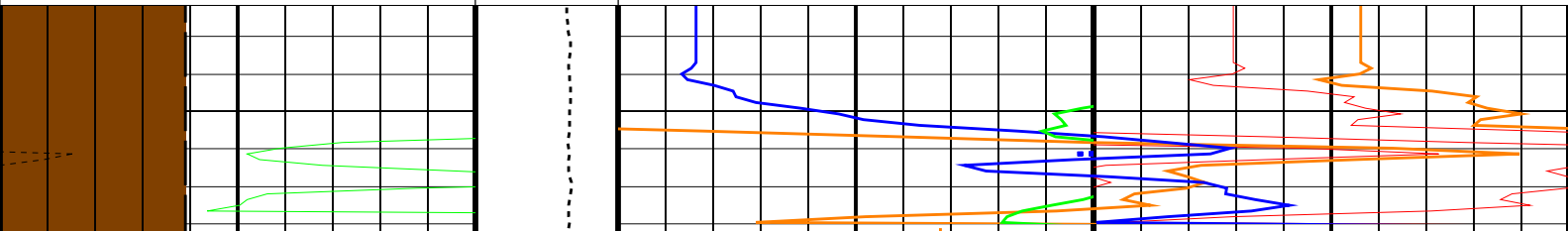
Company: International Ocean Discovery Program Well: Expedition 401, Site U1609A

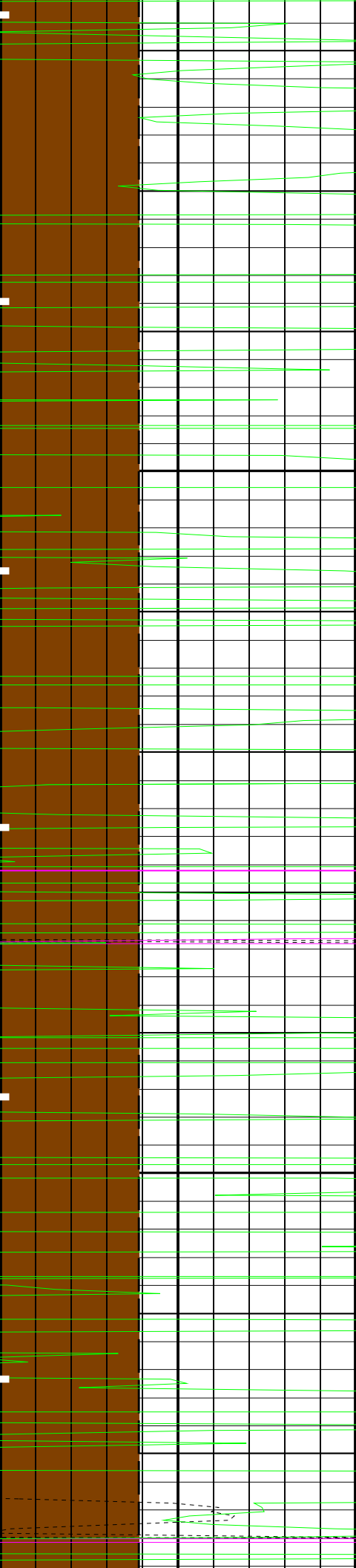
Output DLIS Files			
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OP System Version: 19C0-187			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

PIP SUMMARY

Time Mark Every 60 S	
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	

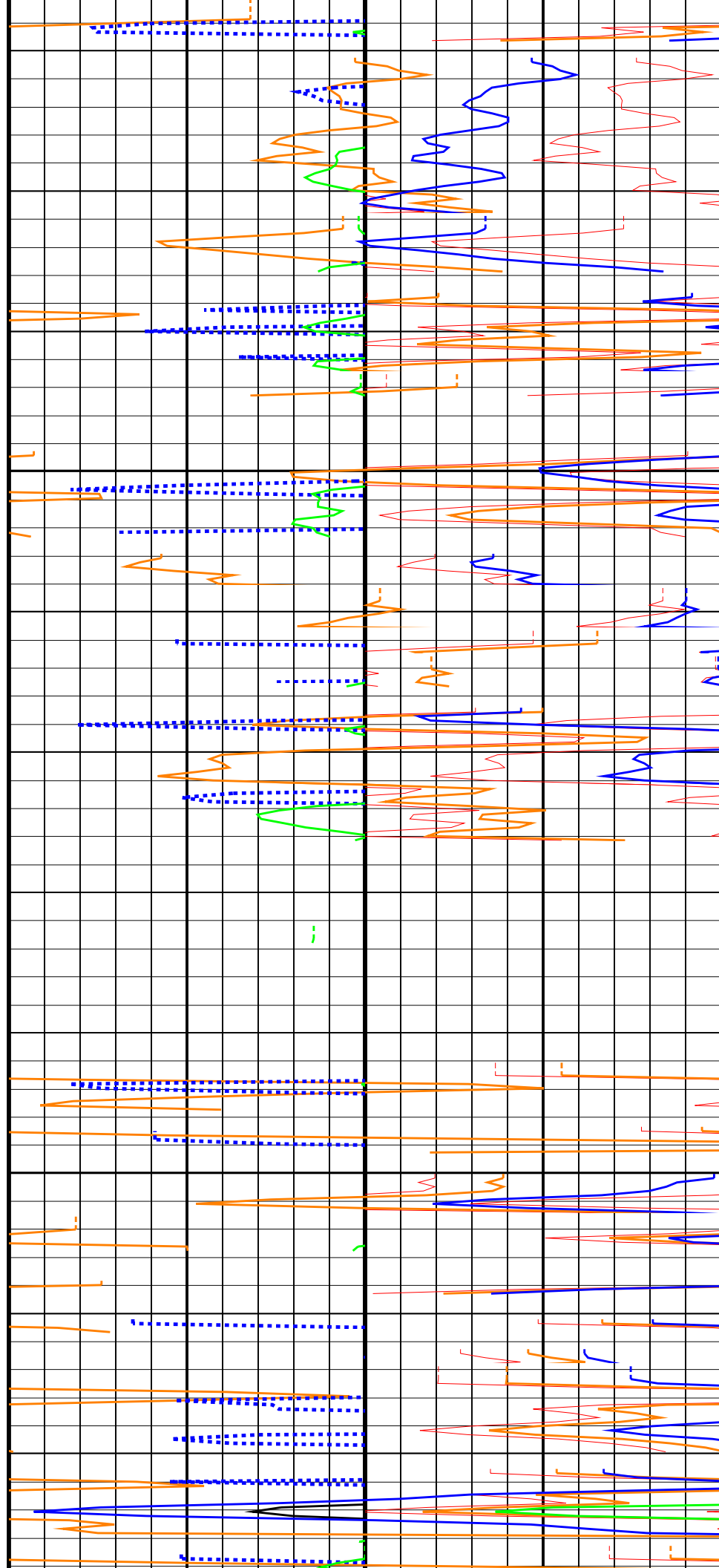
HLDS Bulk Density Correction (DRH)	Tension (TENS)	HLDS Short Spaced Bulk Density (RHS)
-0.25 (G/C3) 0.25	(LBF)	(G/C3)
	10000 0	2 3

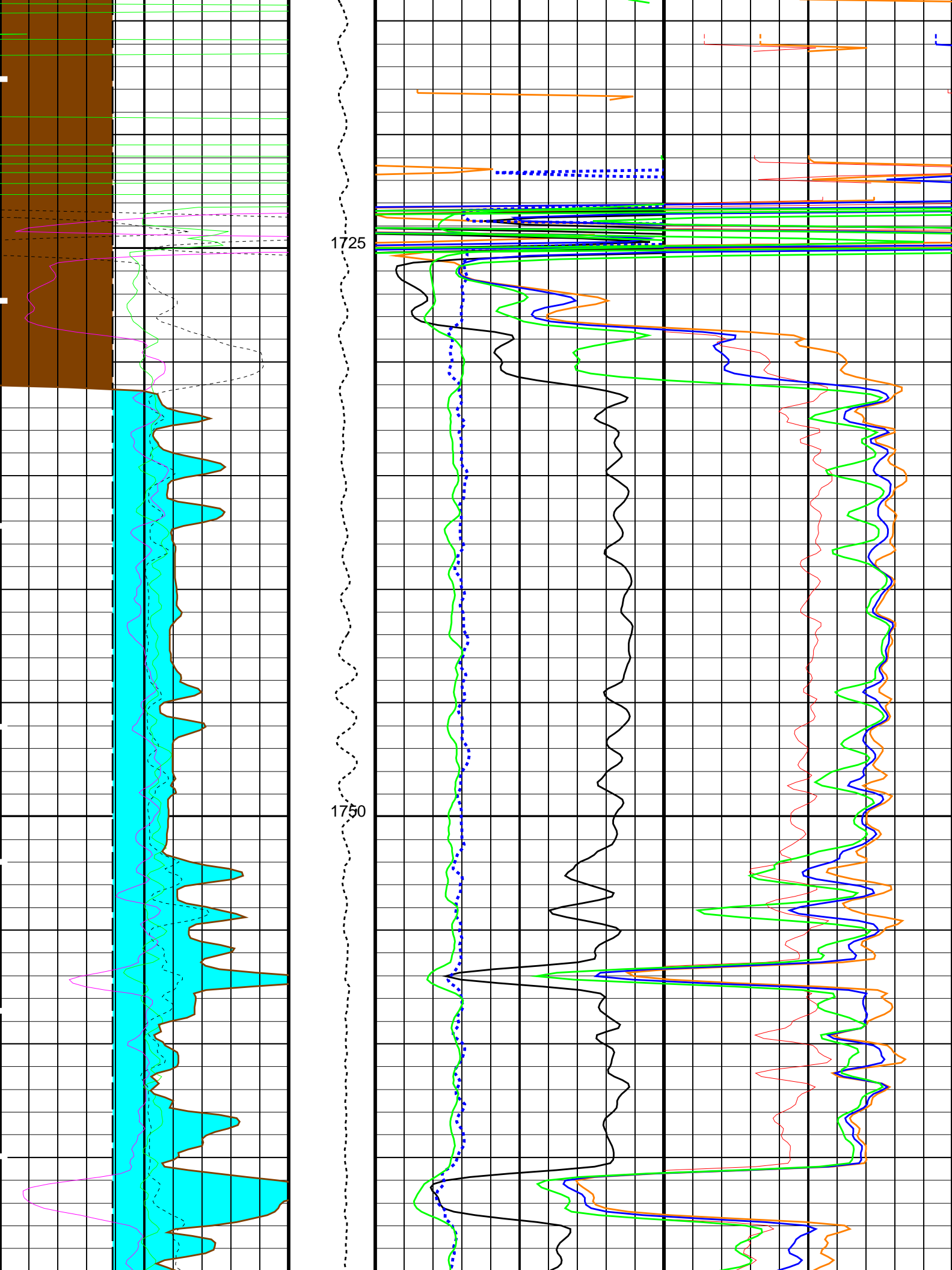


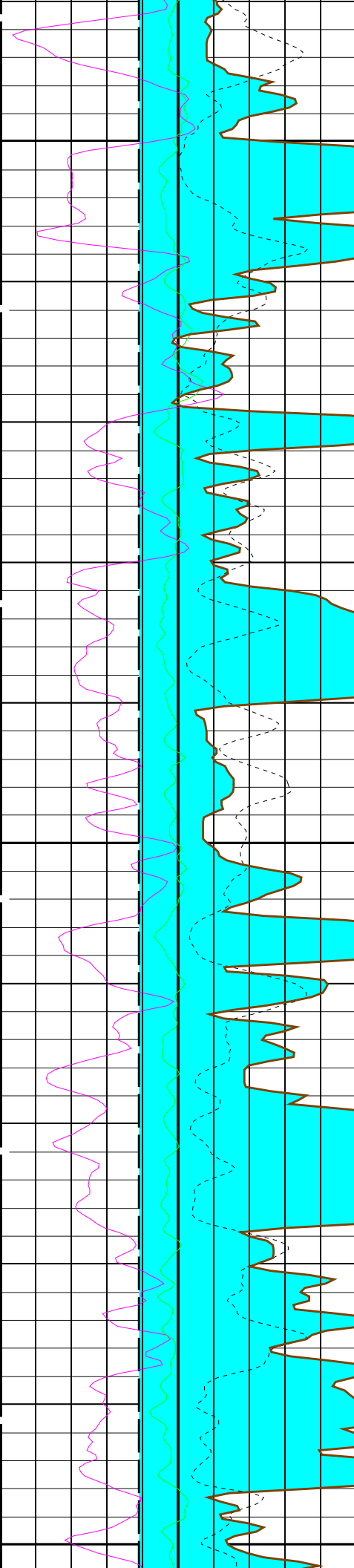


1675

1700



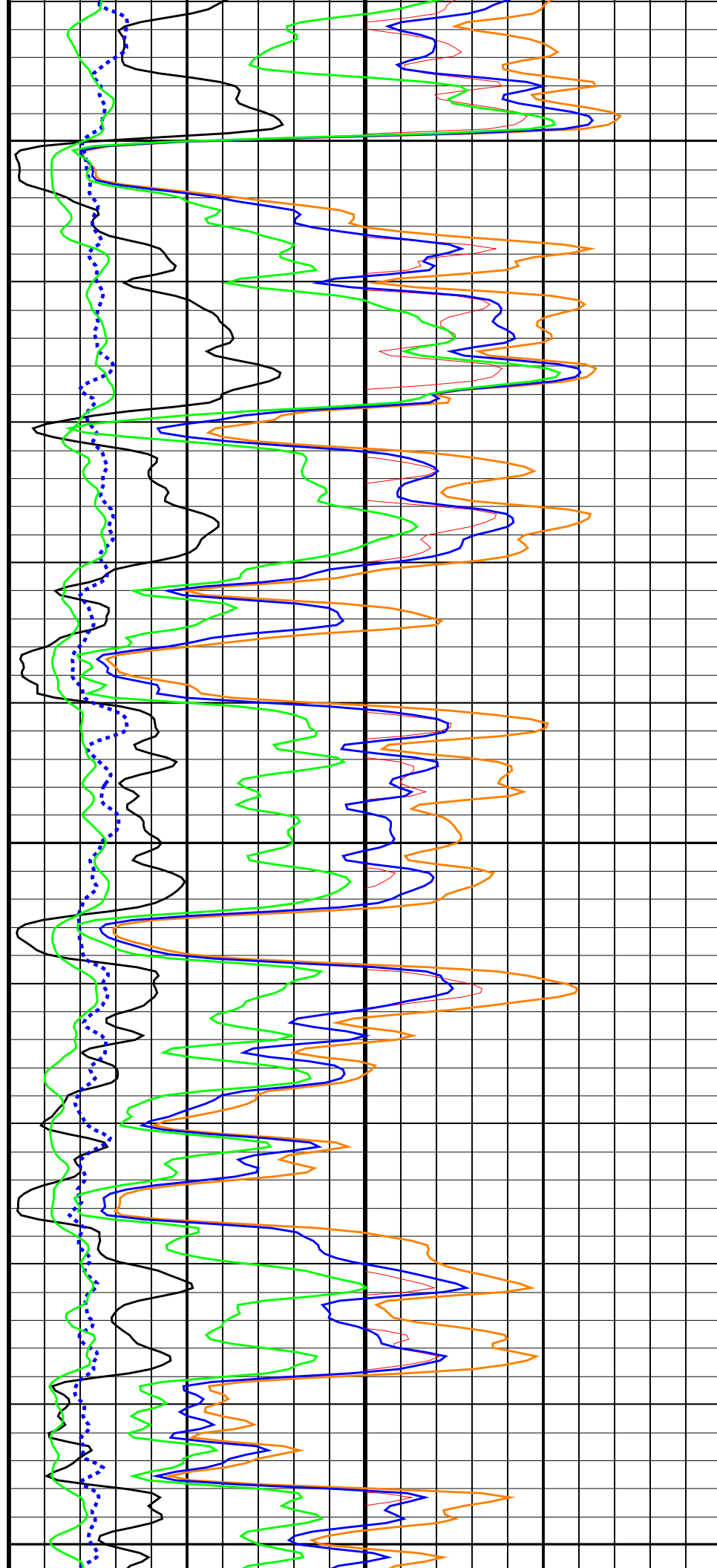


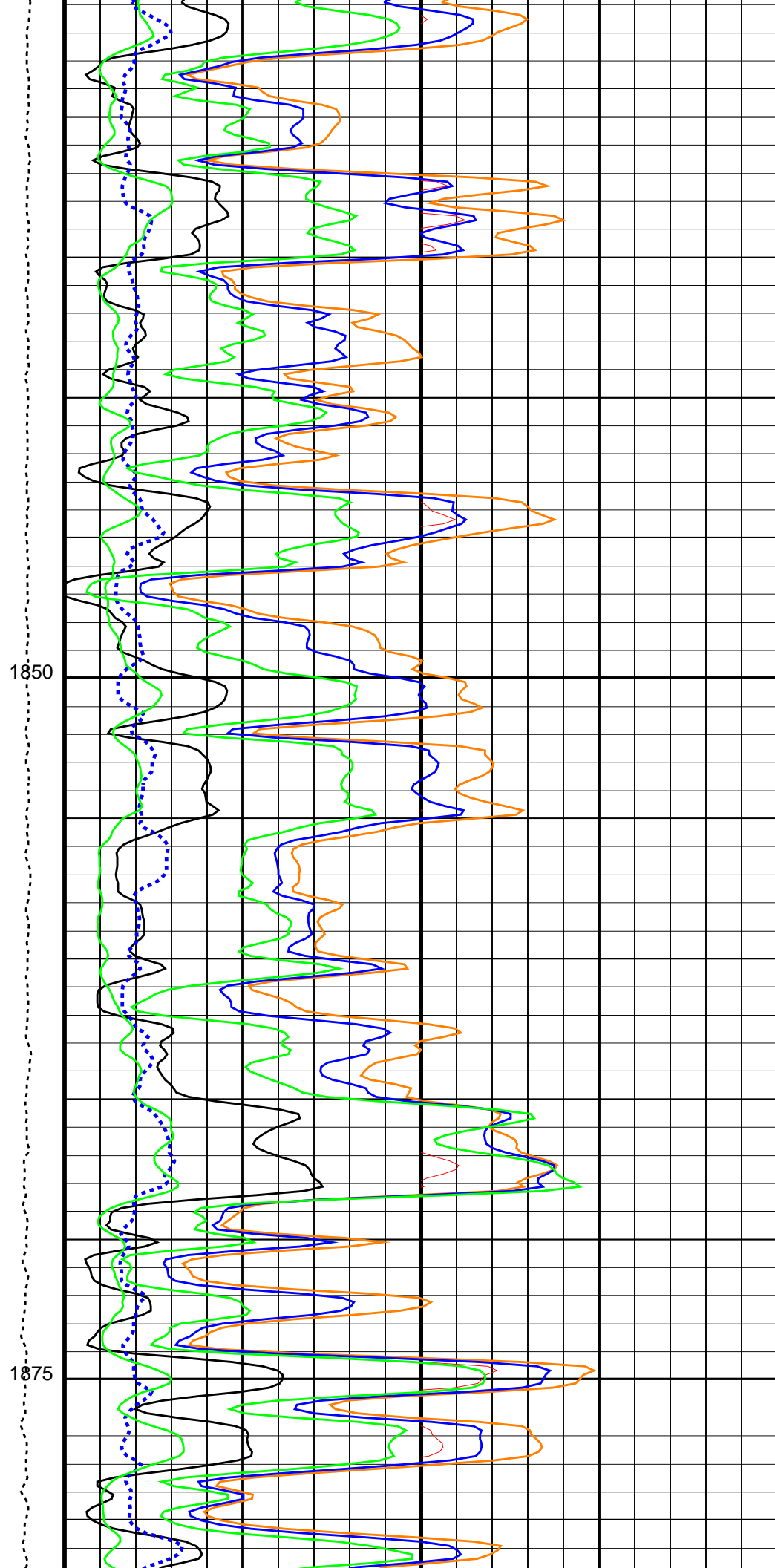
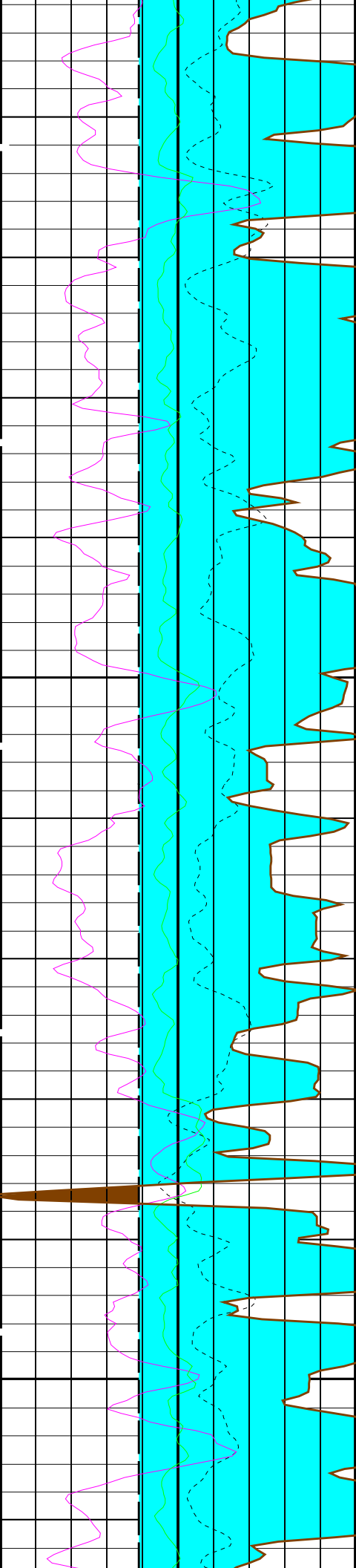


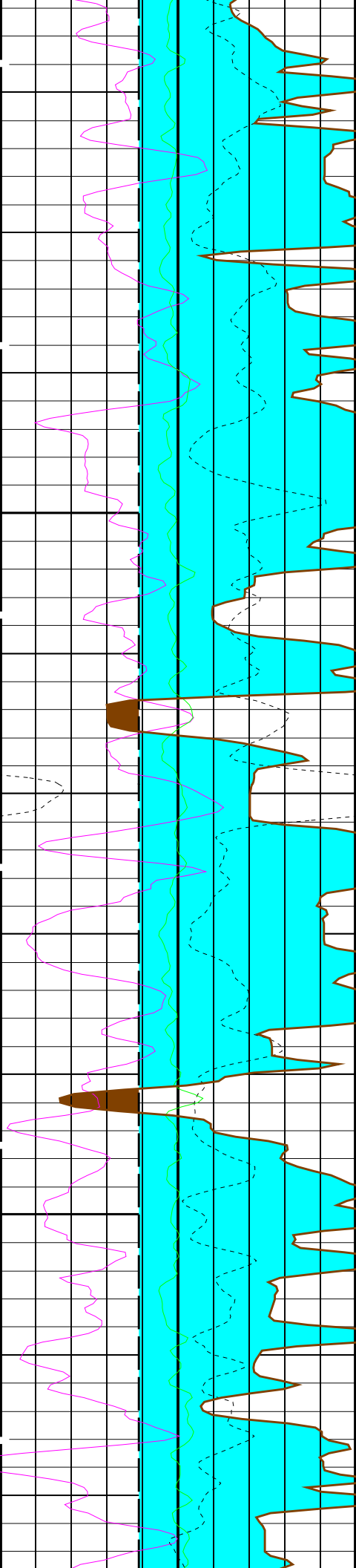
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1800

1825

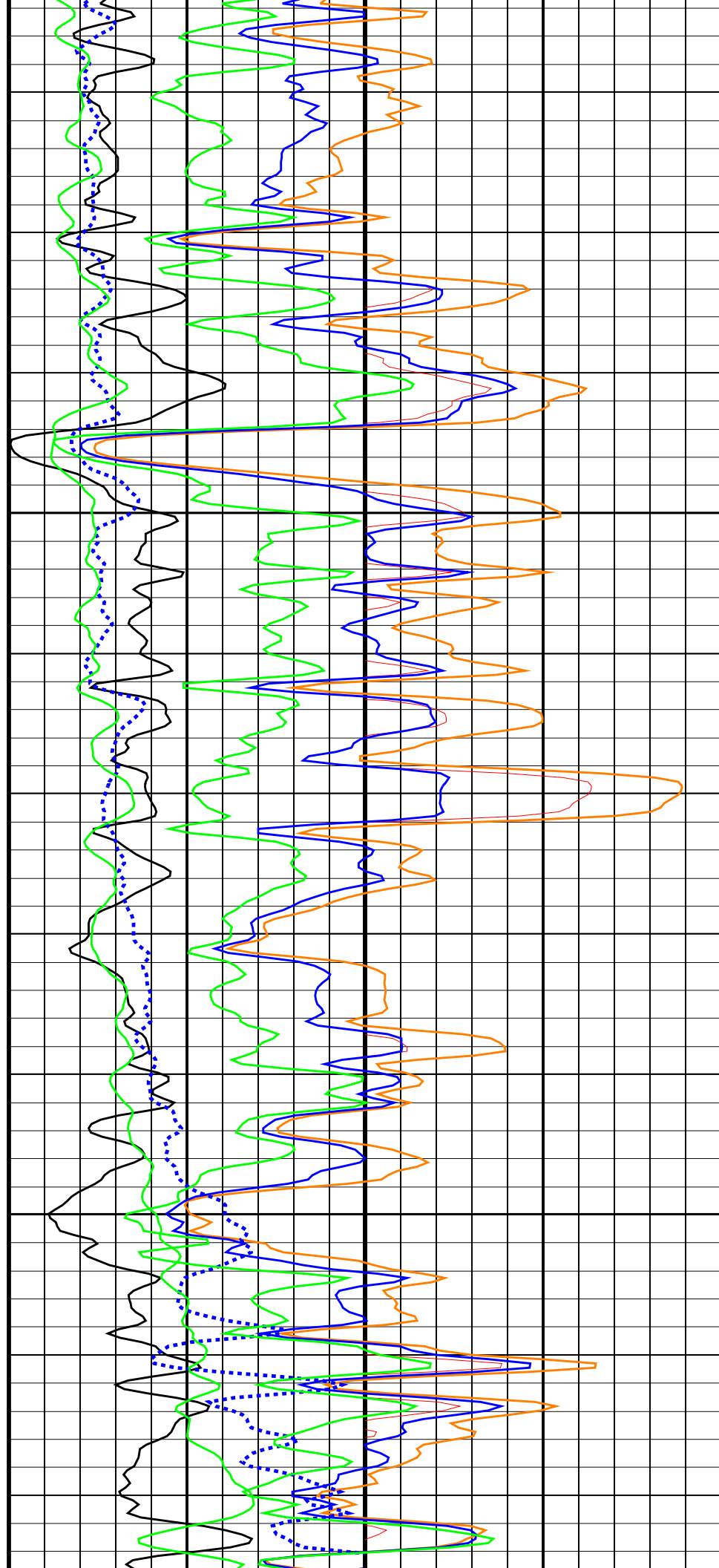


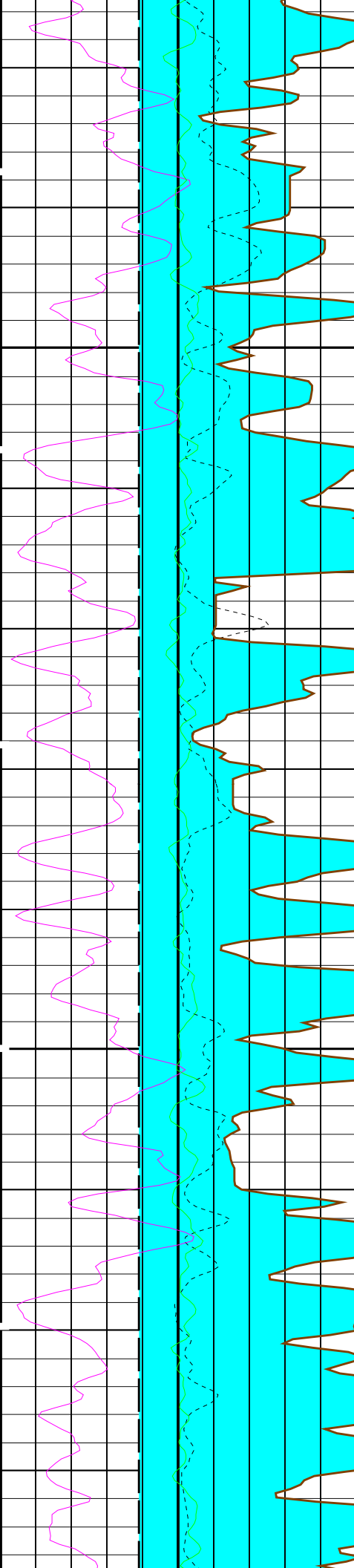




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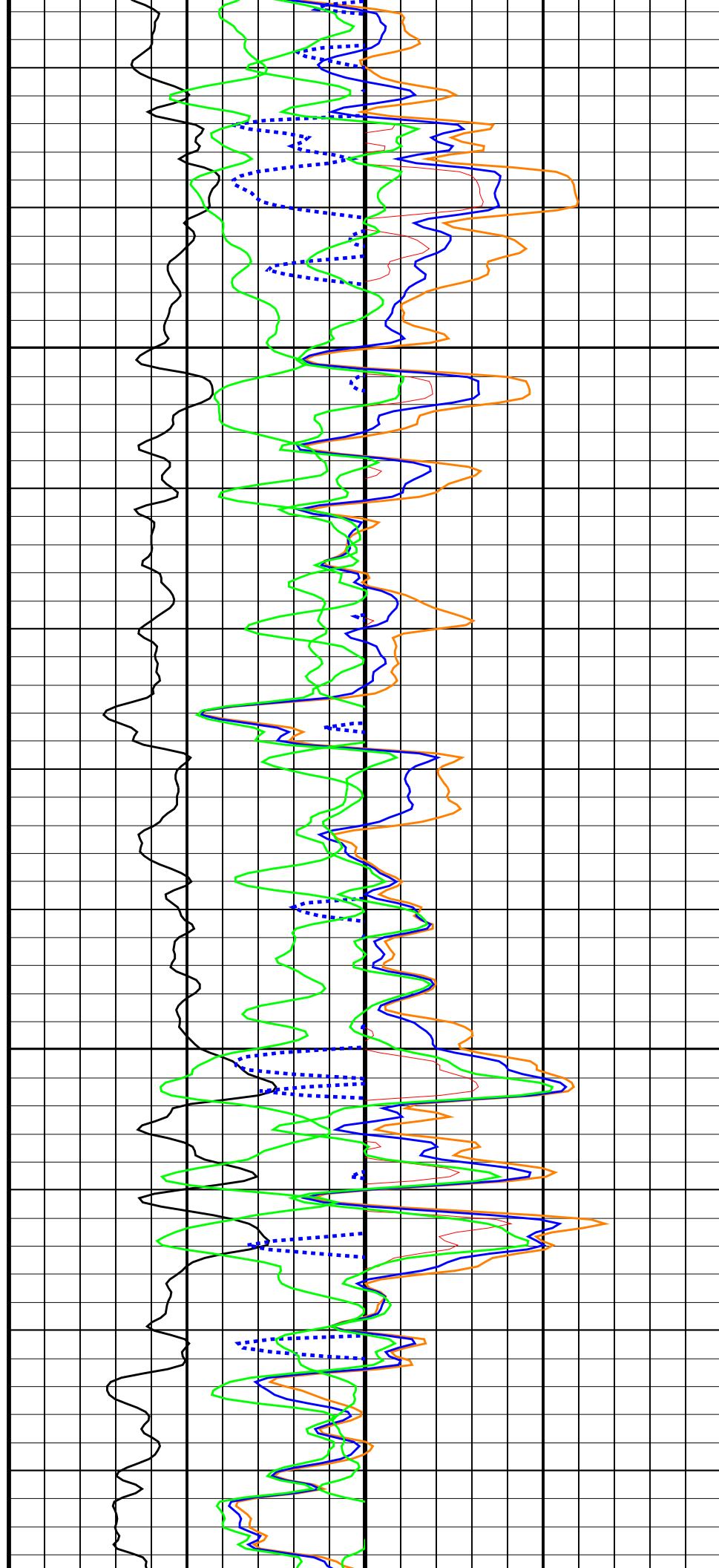
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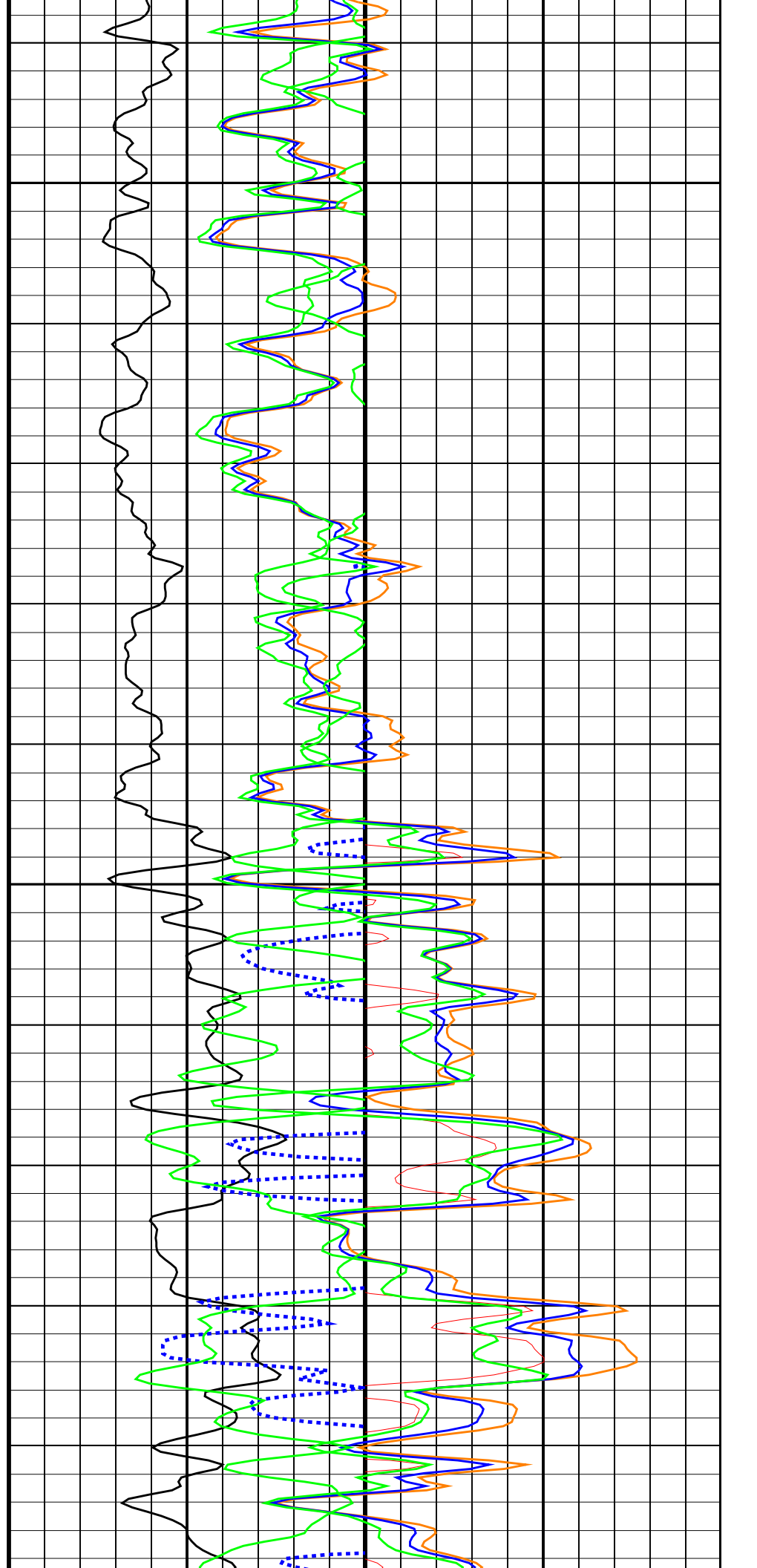
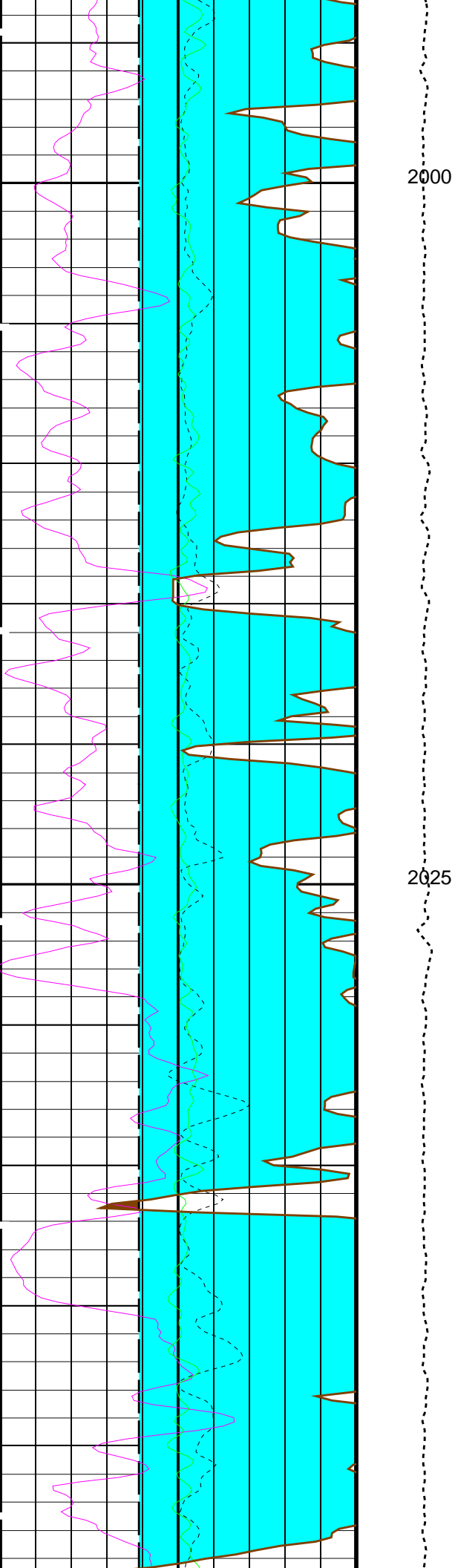


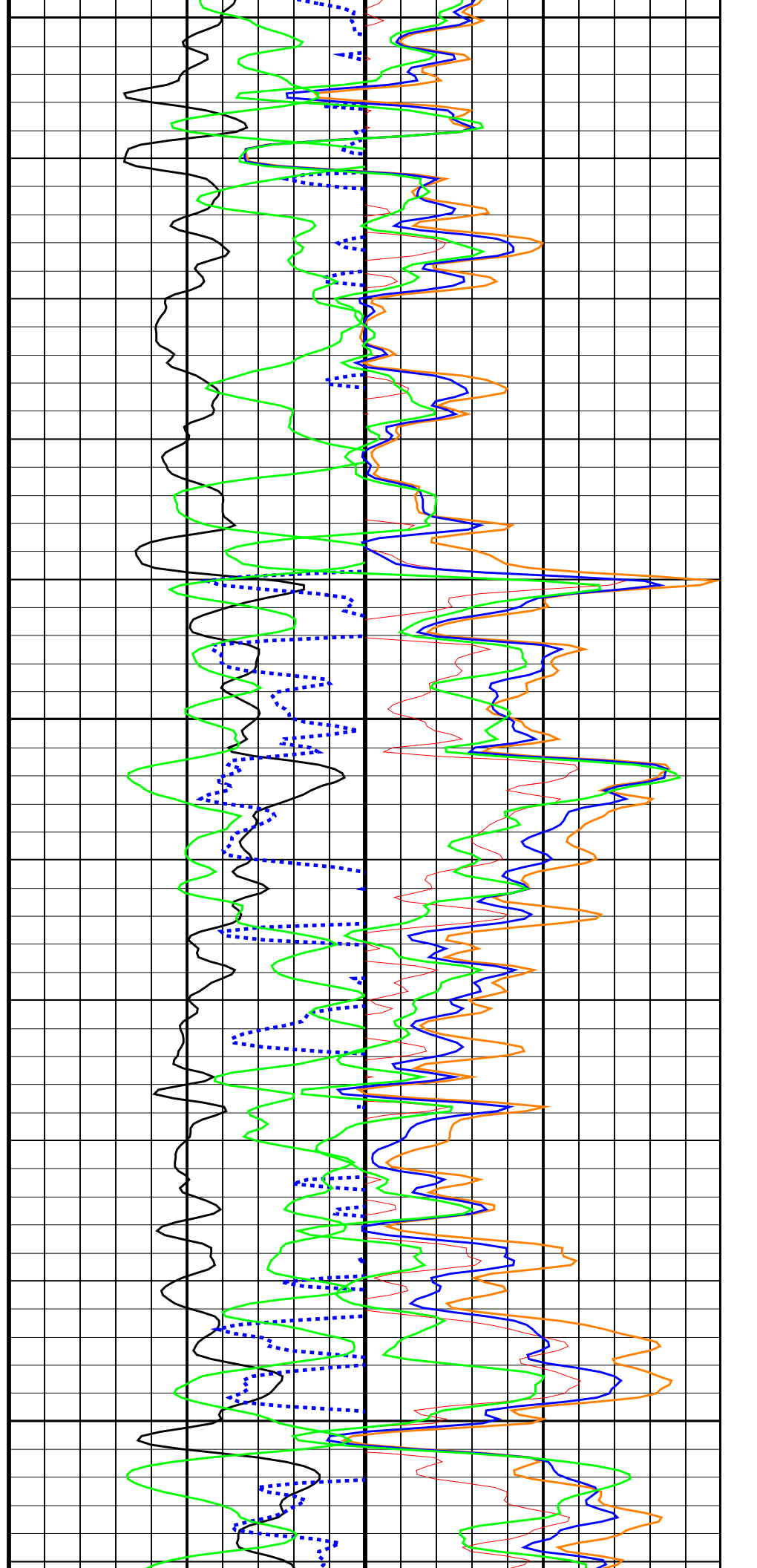
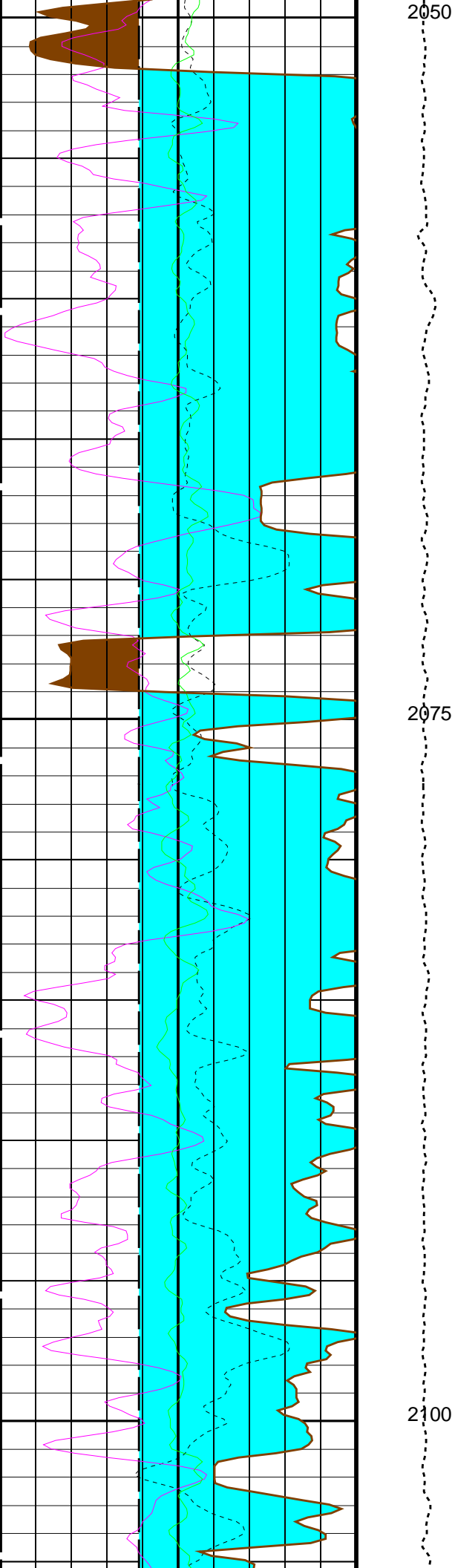


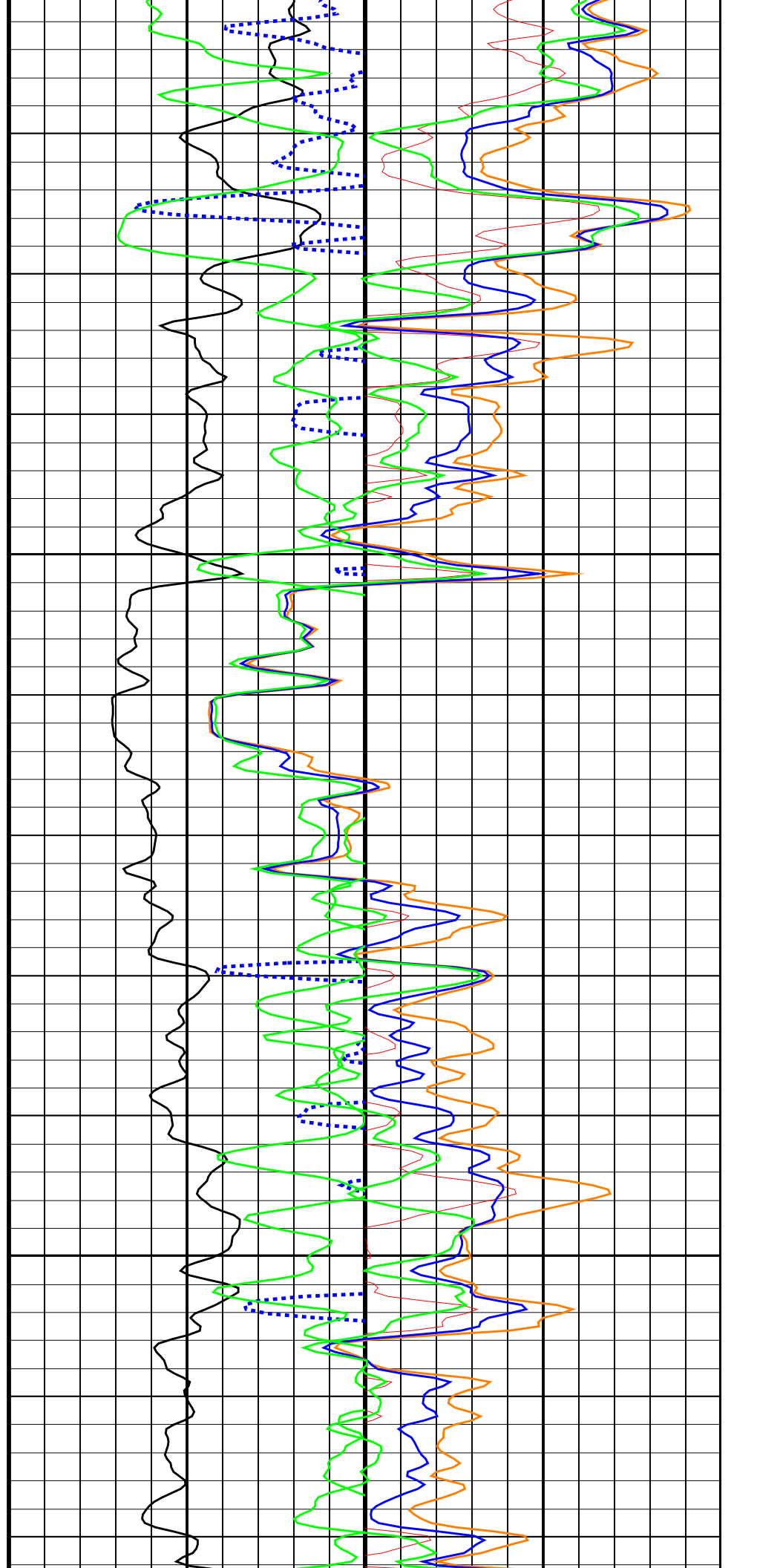
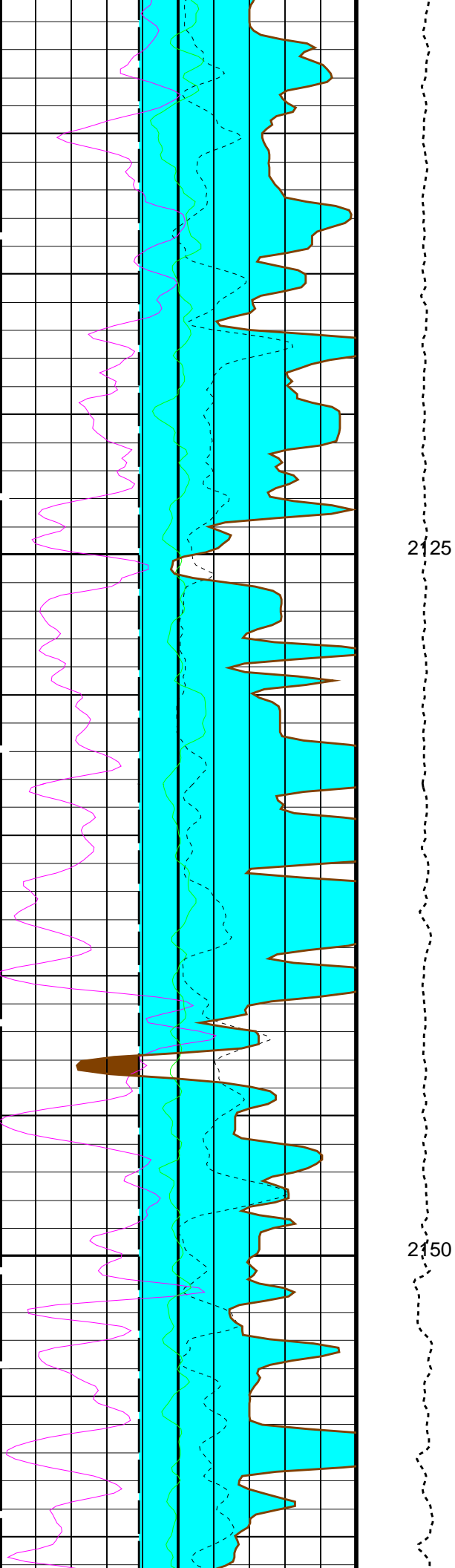
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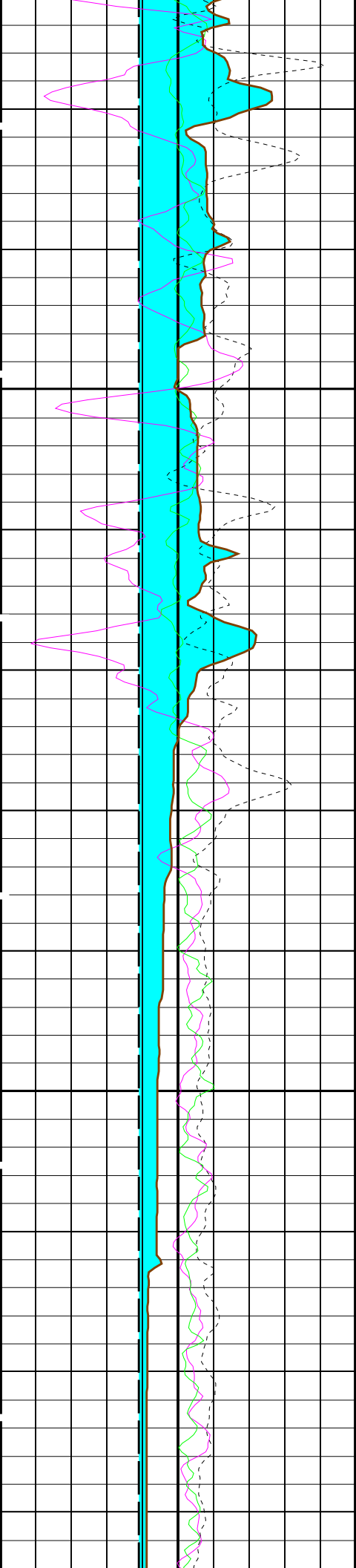
1975





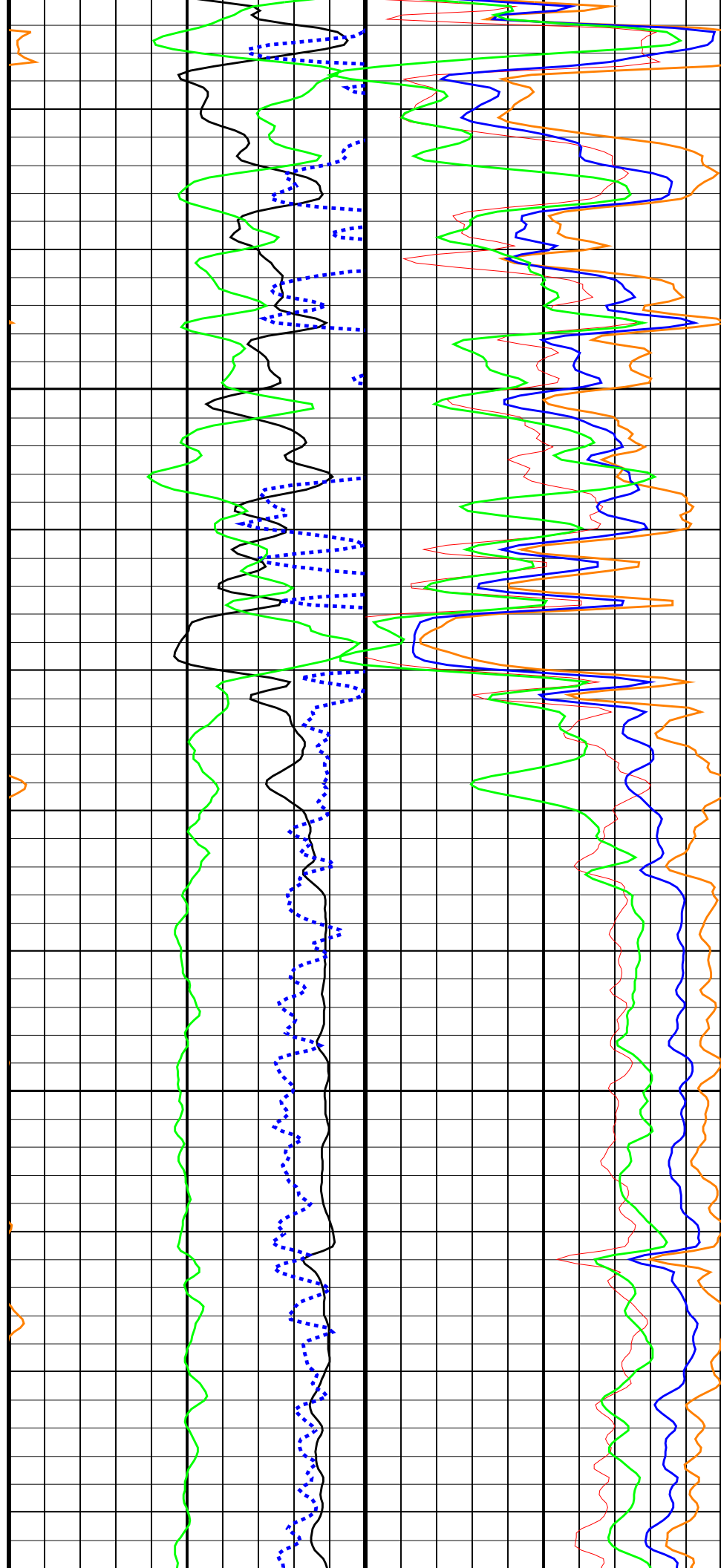


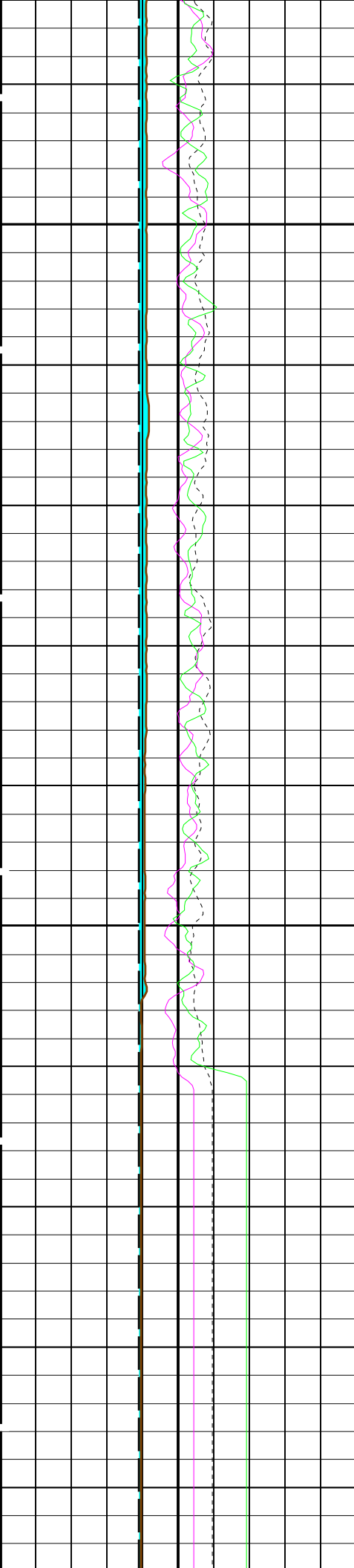




2175

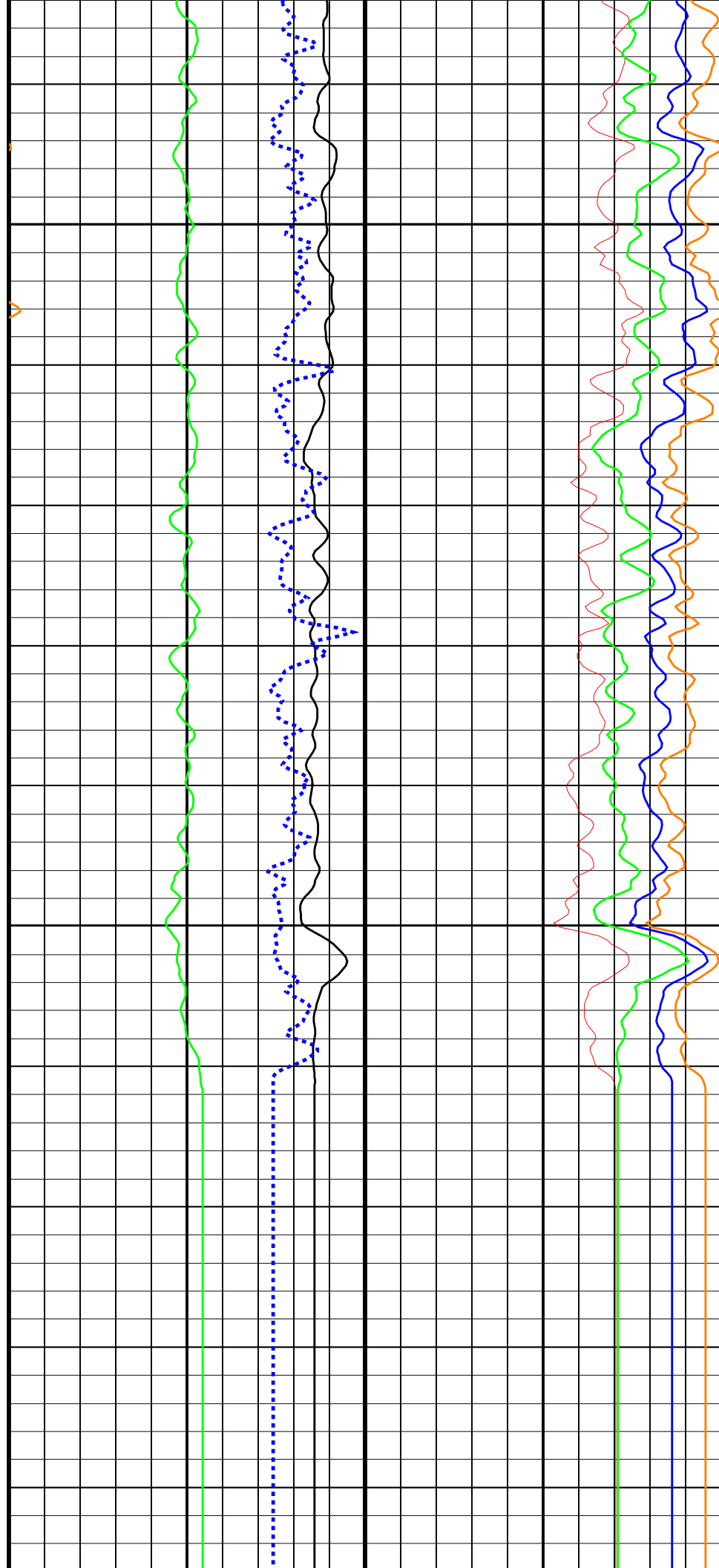
2200





2225

2250



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

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		Bit Size	9.875	IN

Format: HLDSDensityPE	Vertical Scale: 1:200	Graphics File Created: 23-Dec-2023 05:59
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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		

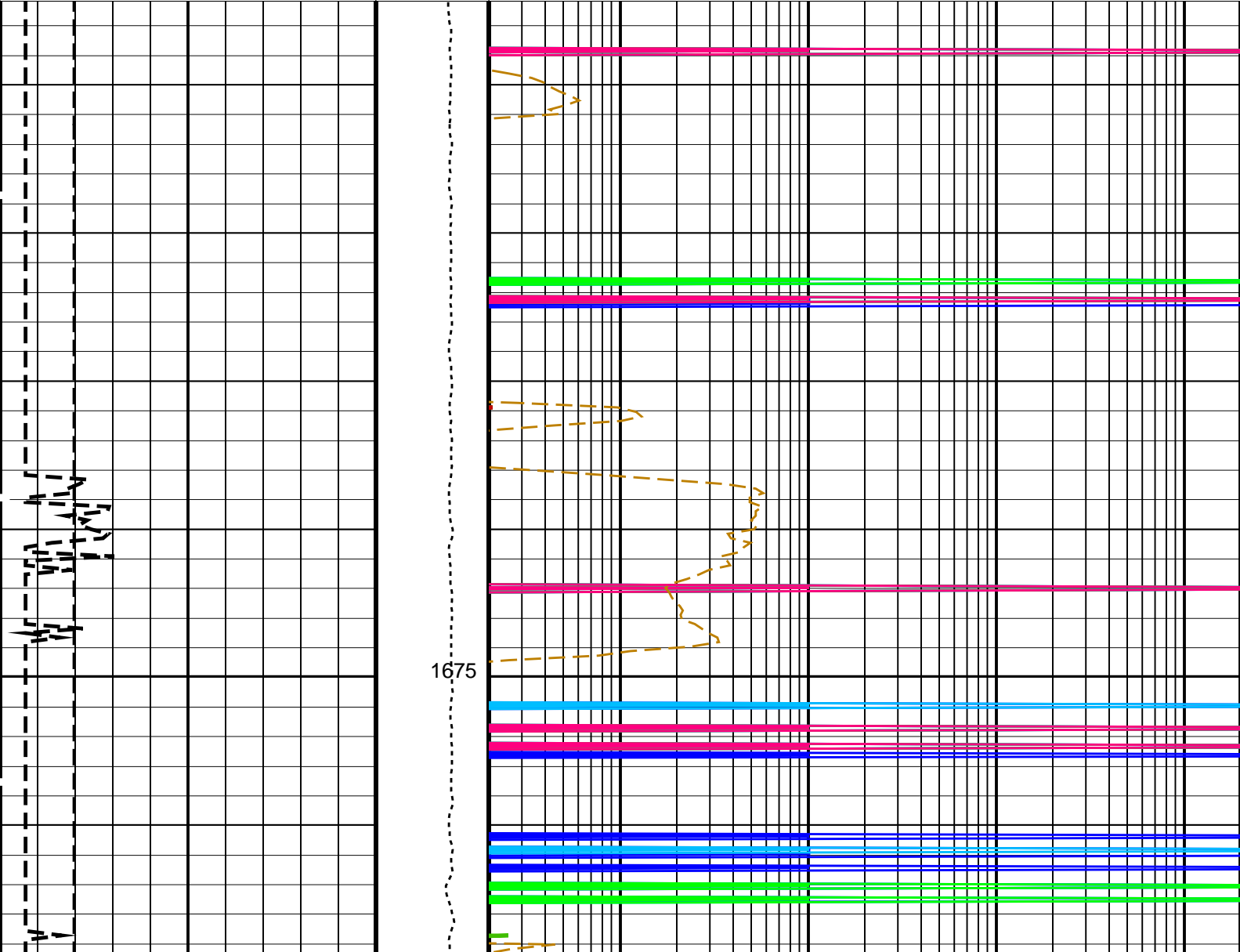
Output DLIS Files				
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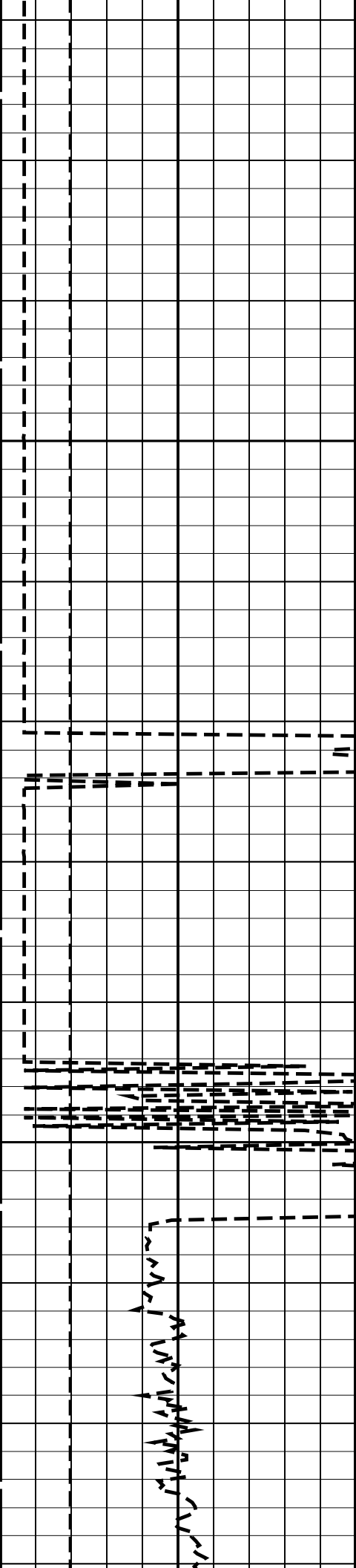
Company: International Ocean Discovery Program			Well: Expedition 401, Site U1609A		
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Output DLIS Files					
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OP System Version: 19C0-187			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187

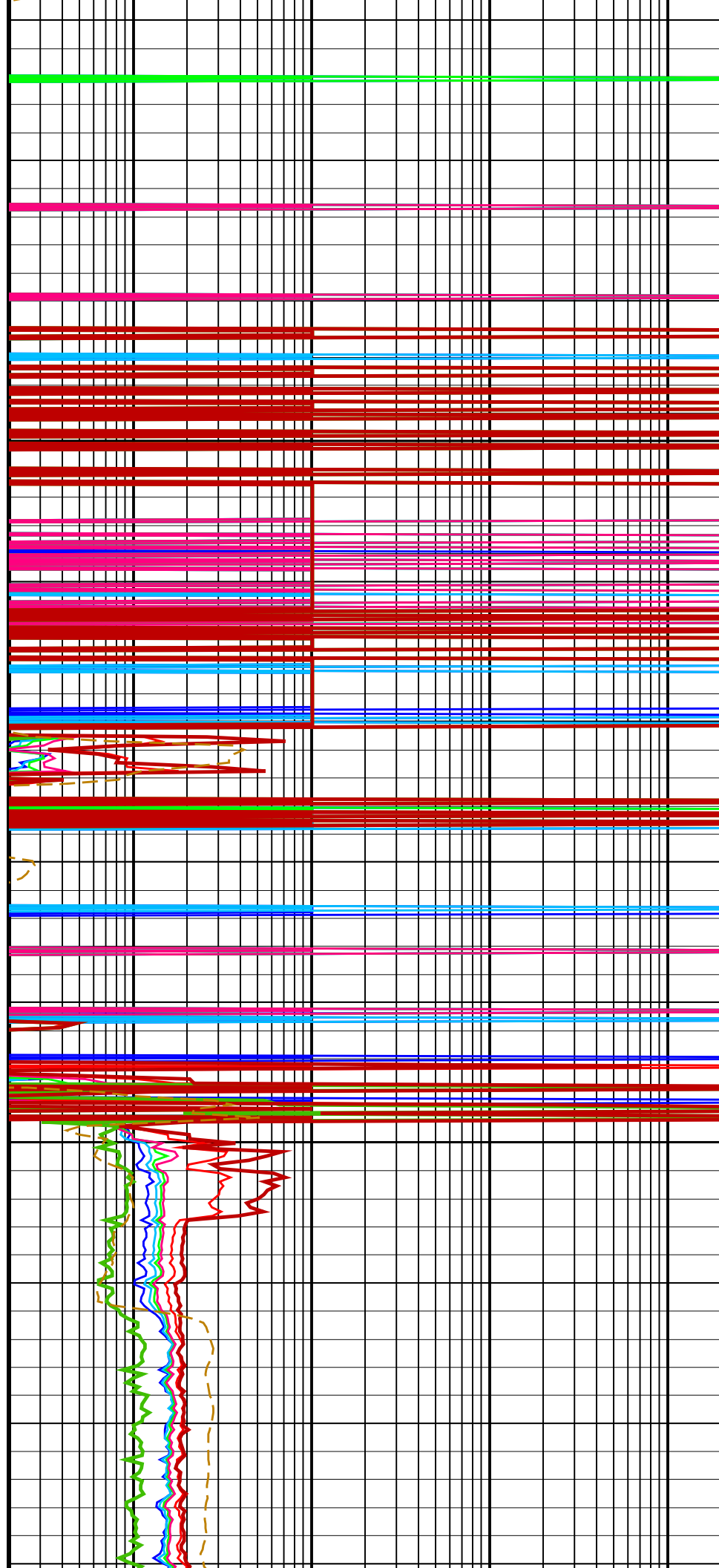
PIP SUMMARY			
Time Mark Every 60 S			
		HRLT True Resistivity (RT_HRLT)	
		0.2	2000
		Invaded Zone Resistivity (RXO_HRLT)	
		0.2	2000
		HRLT Mud Resistivity (RM_HRLT)	
		0.02	200
		HRLT Resistivity 5 (RLA5)	
		0.2	2000
		HRLT Resistivity 4 (RLA4)	
		0.2	2000
Invasion Diameter (DI_HRLT) (IN)		HRLT Resistivity 3 (RLA3)	
		0.2	2000
		HRLT Resistivity 2 (RLA2)	
		0.2	2000
Bit Size (BS) (IN)		HRLT Resistivity 1 (RLA1)	
		0.2	2000
Tension (TENS) (LBF)			
6			
10000			
0			

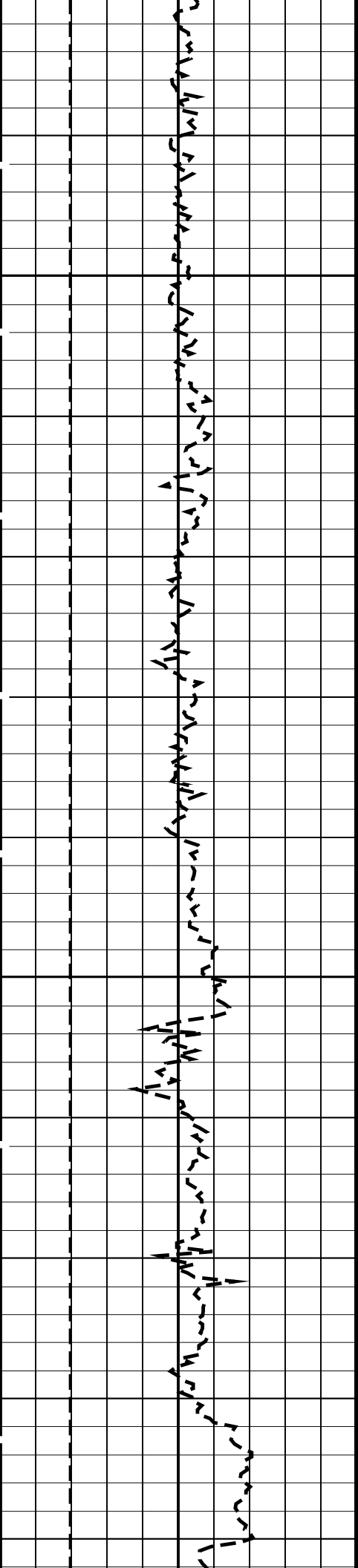




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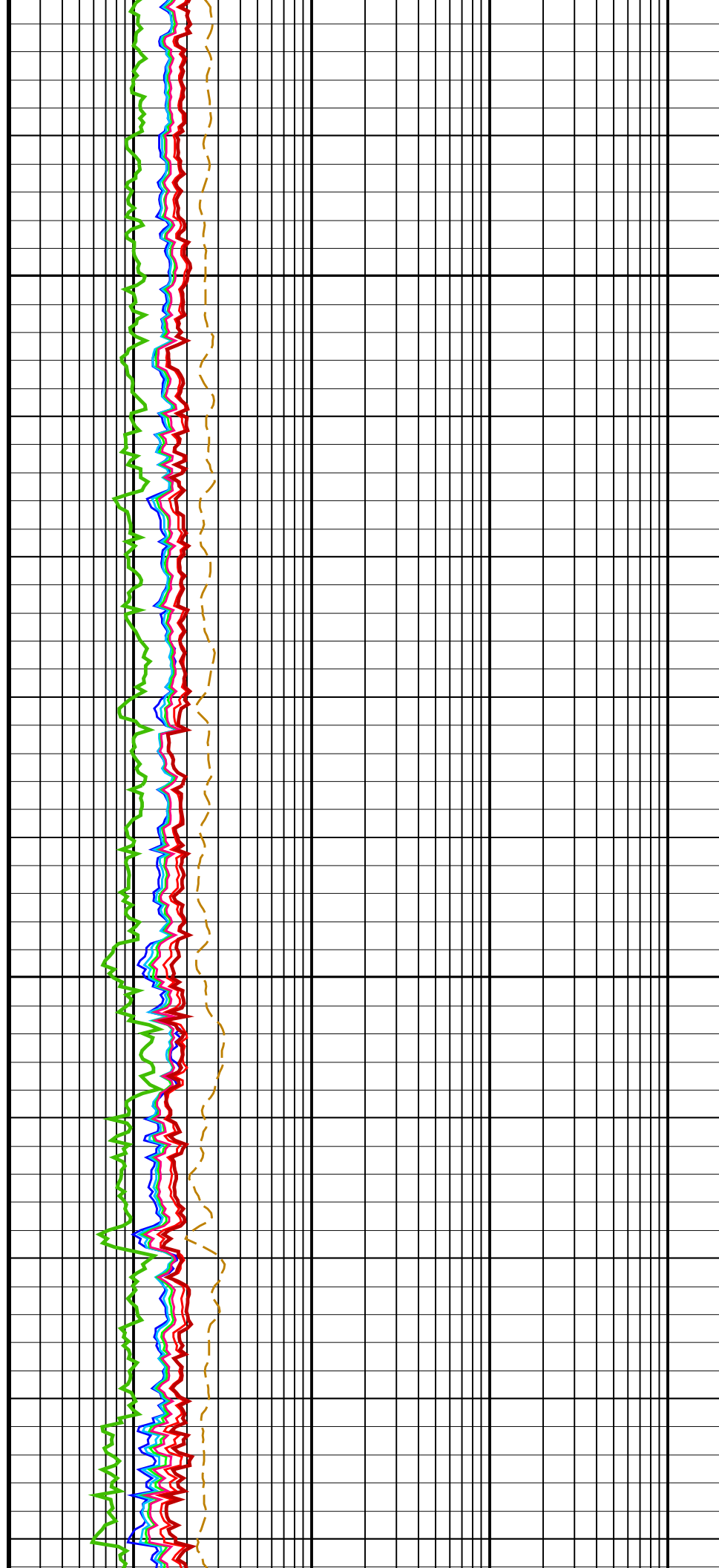
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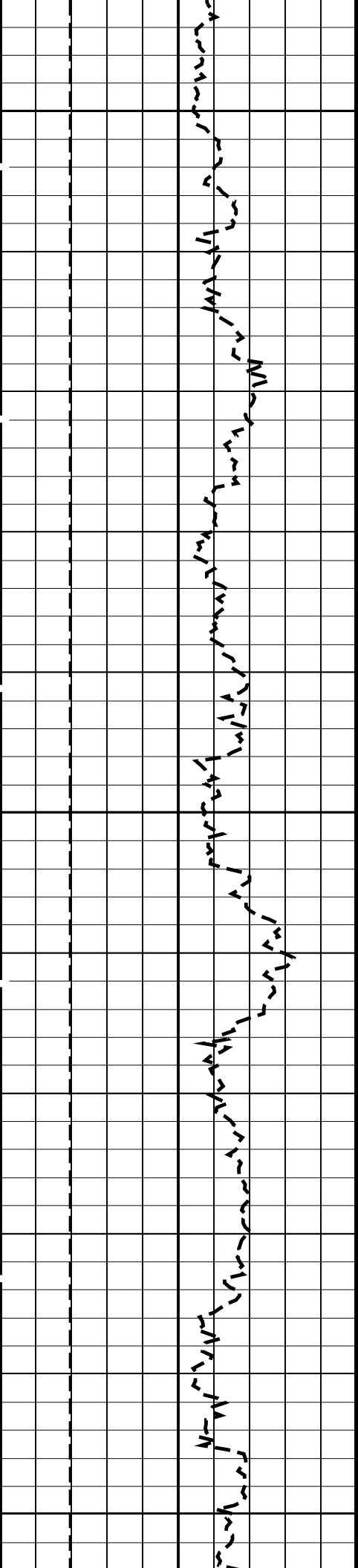




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1775

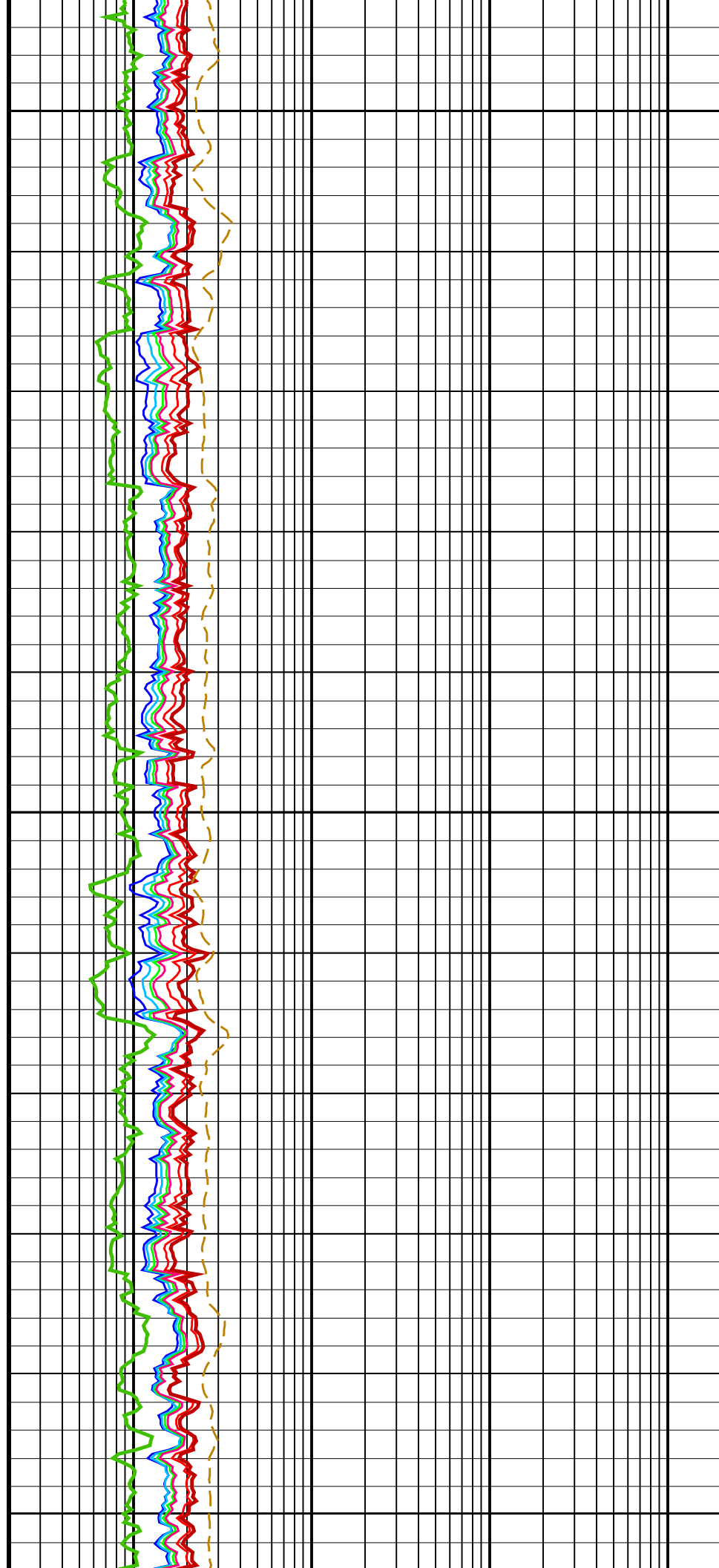


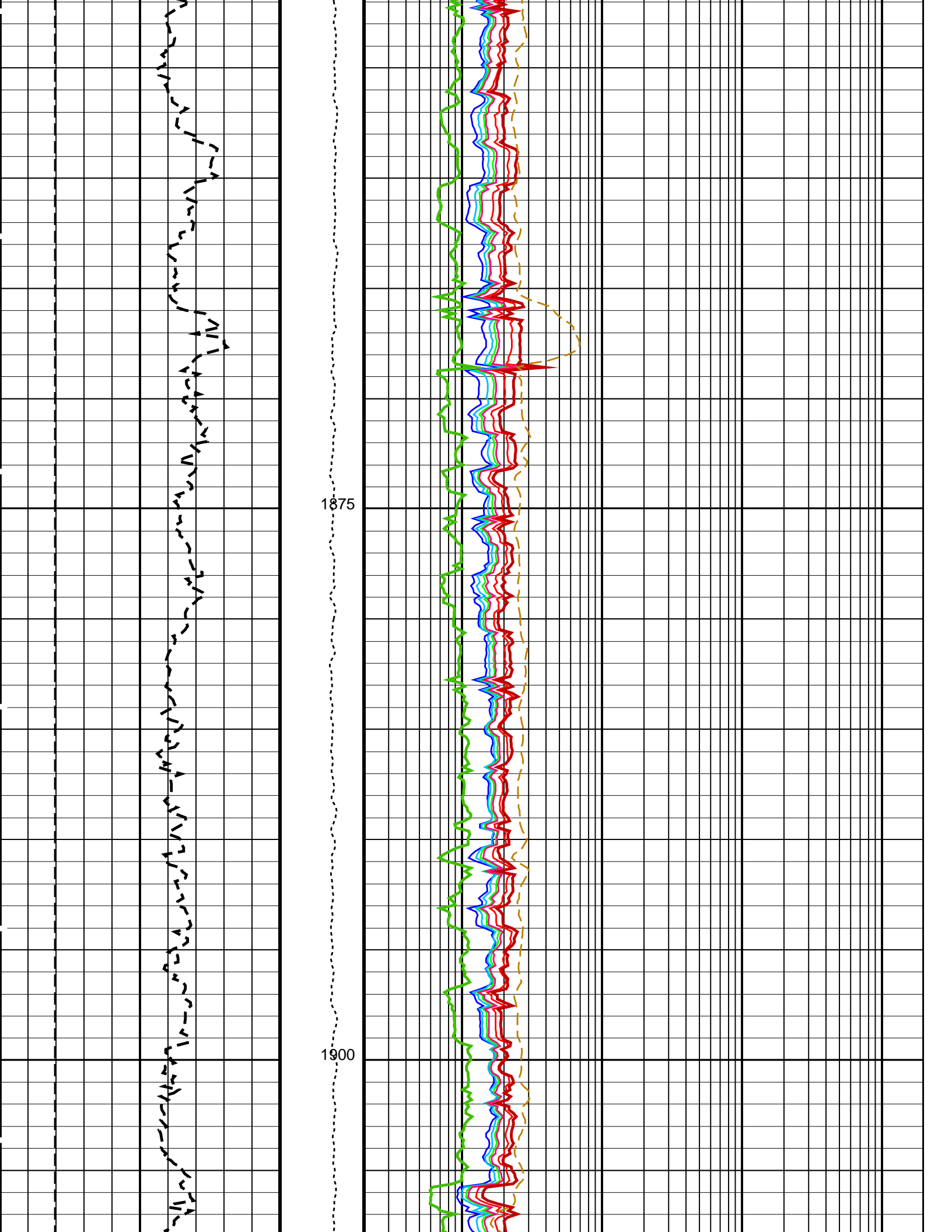


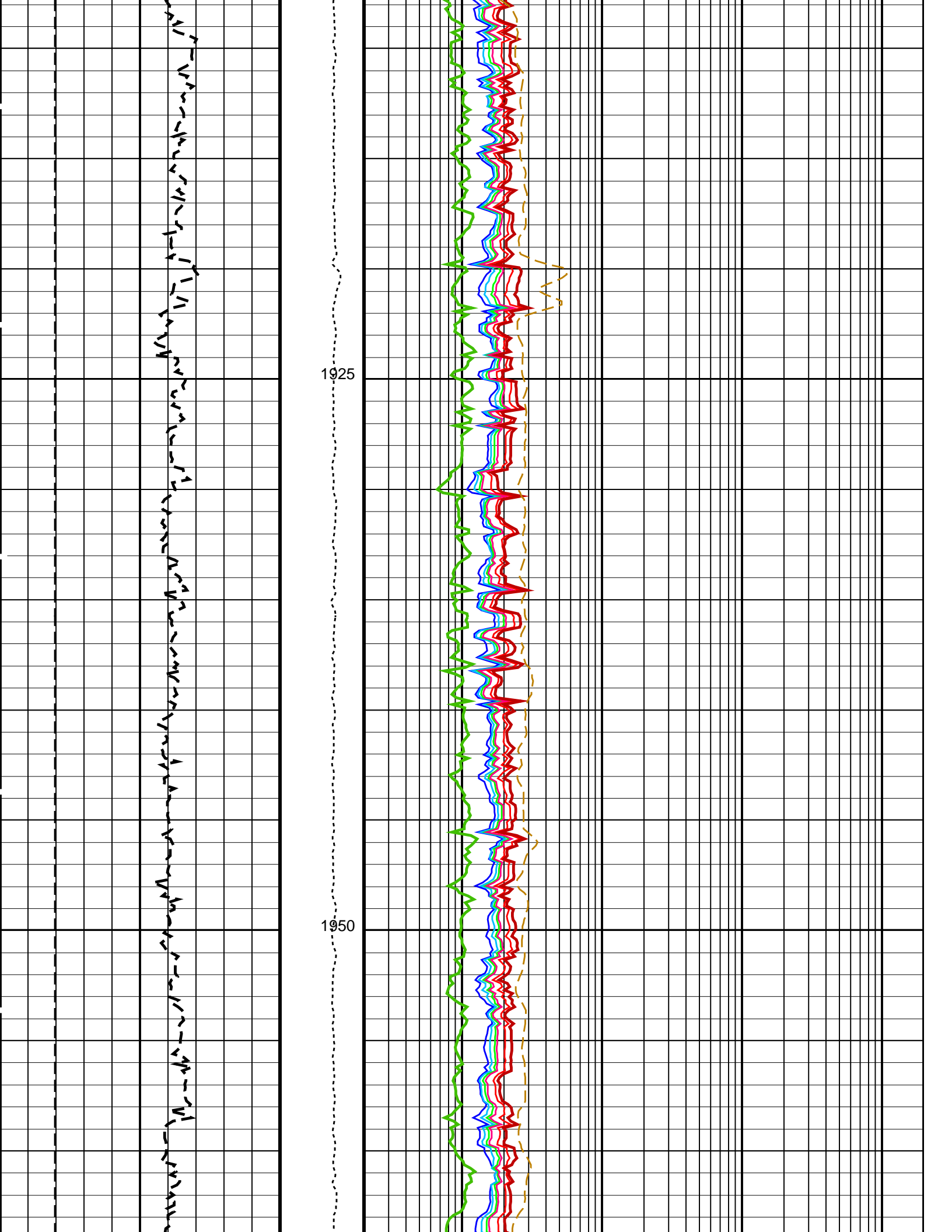
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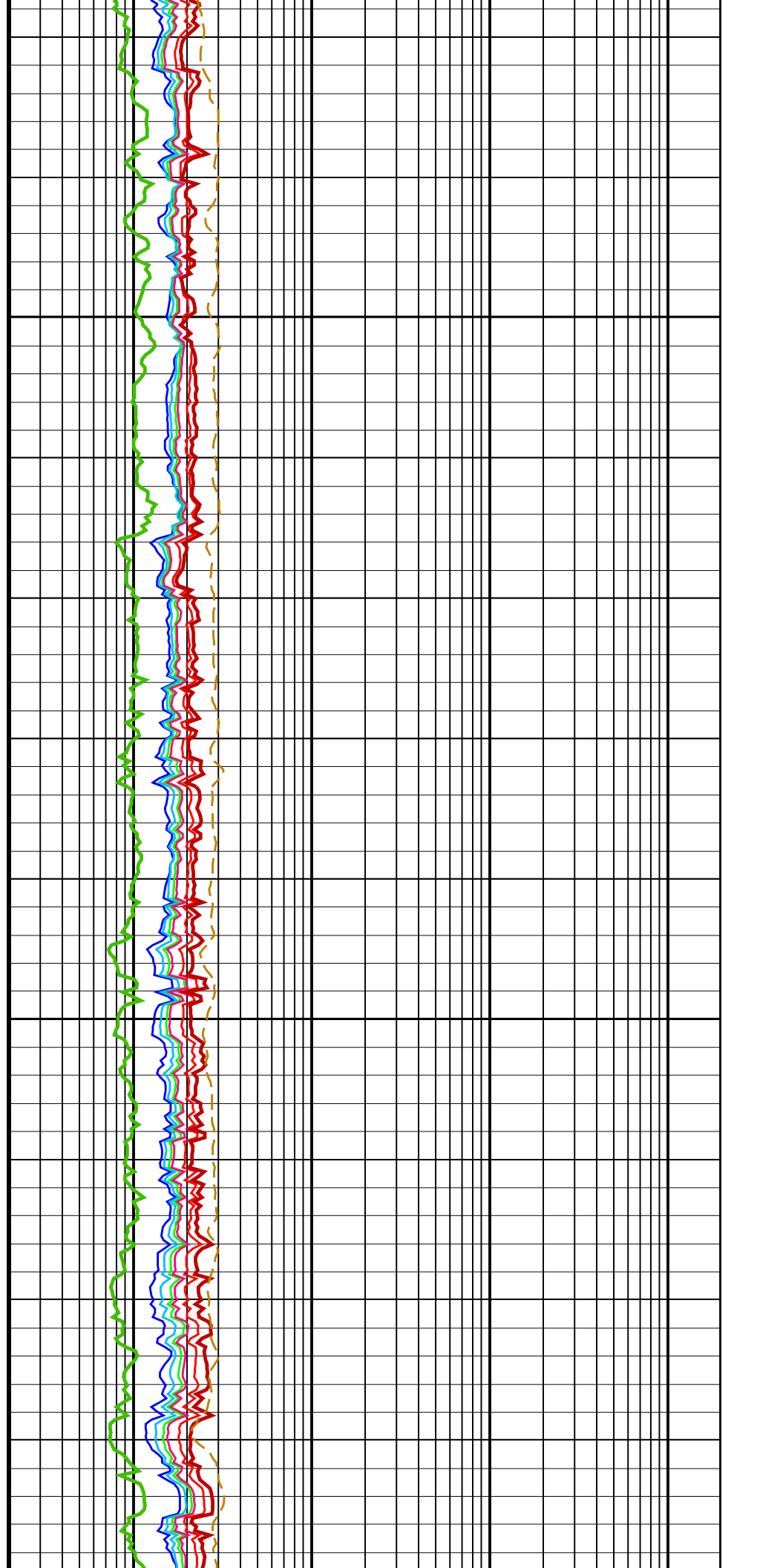
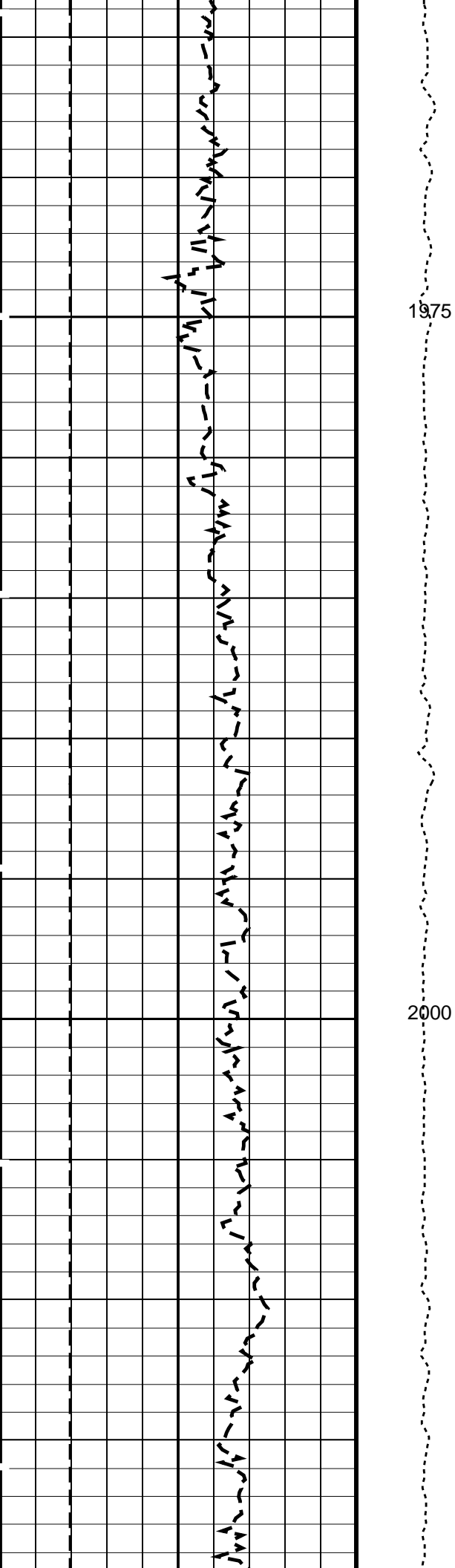
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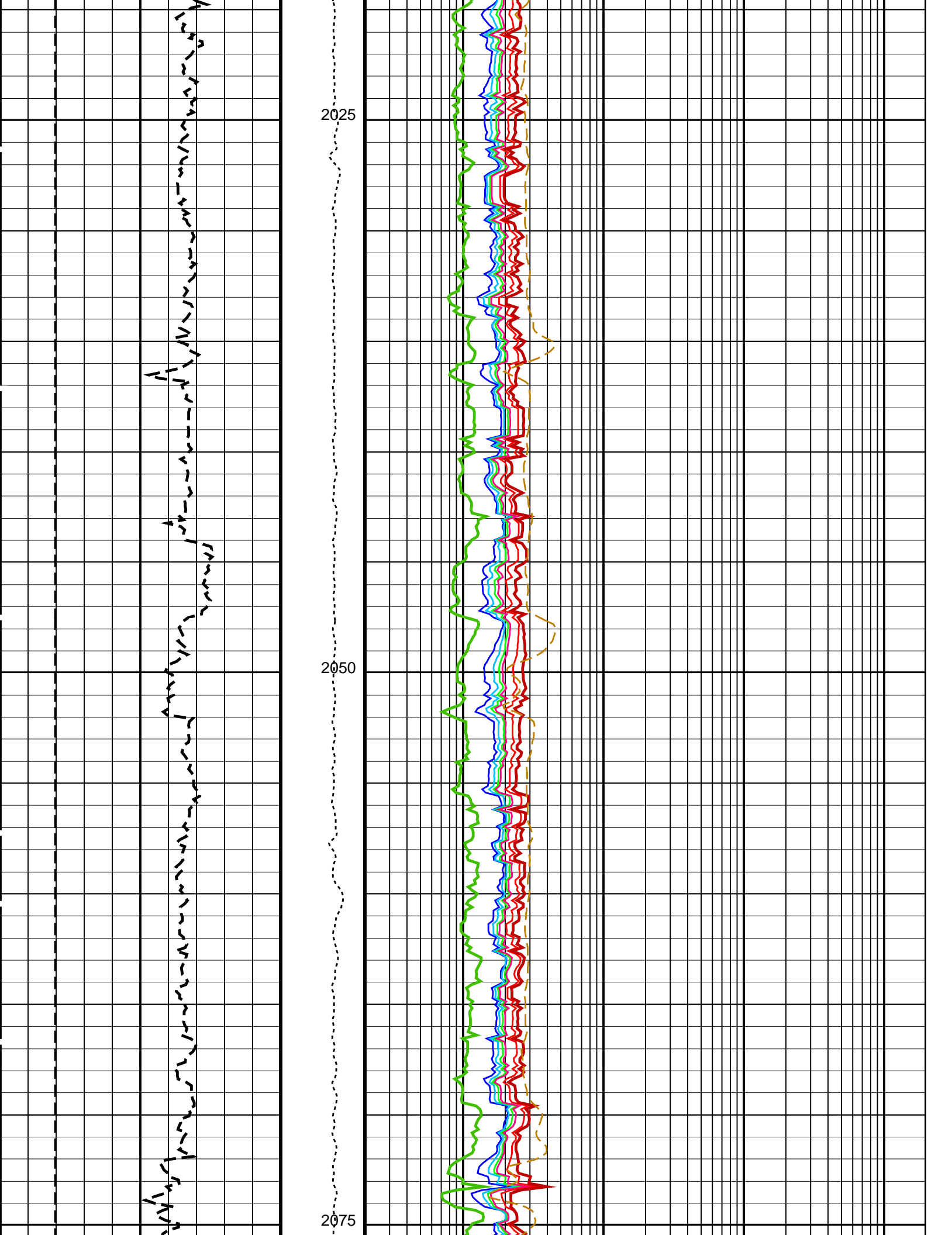
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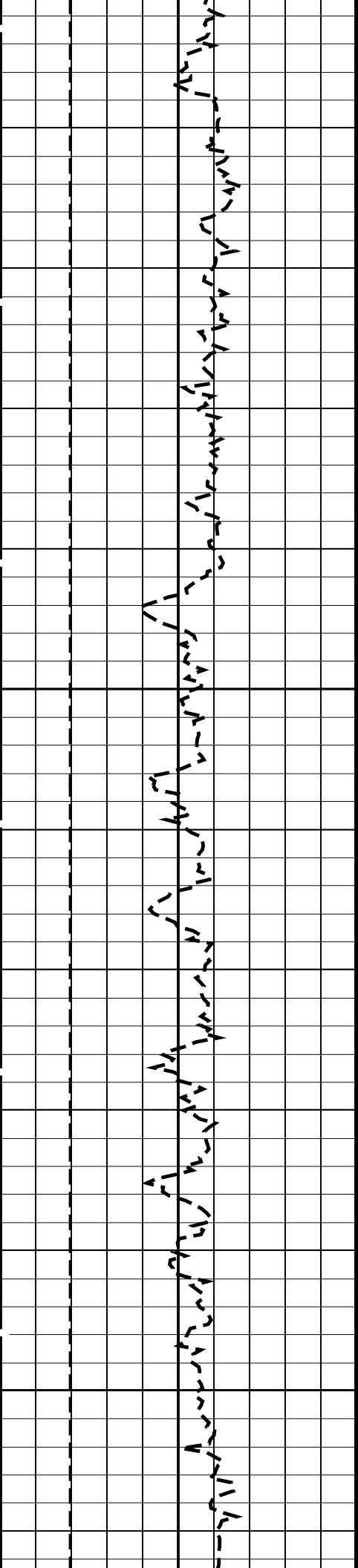






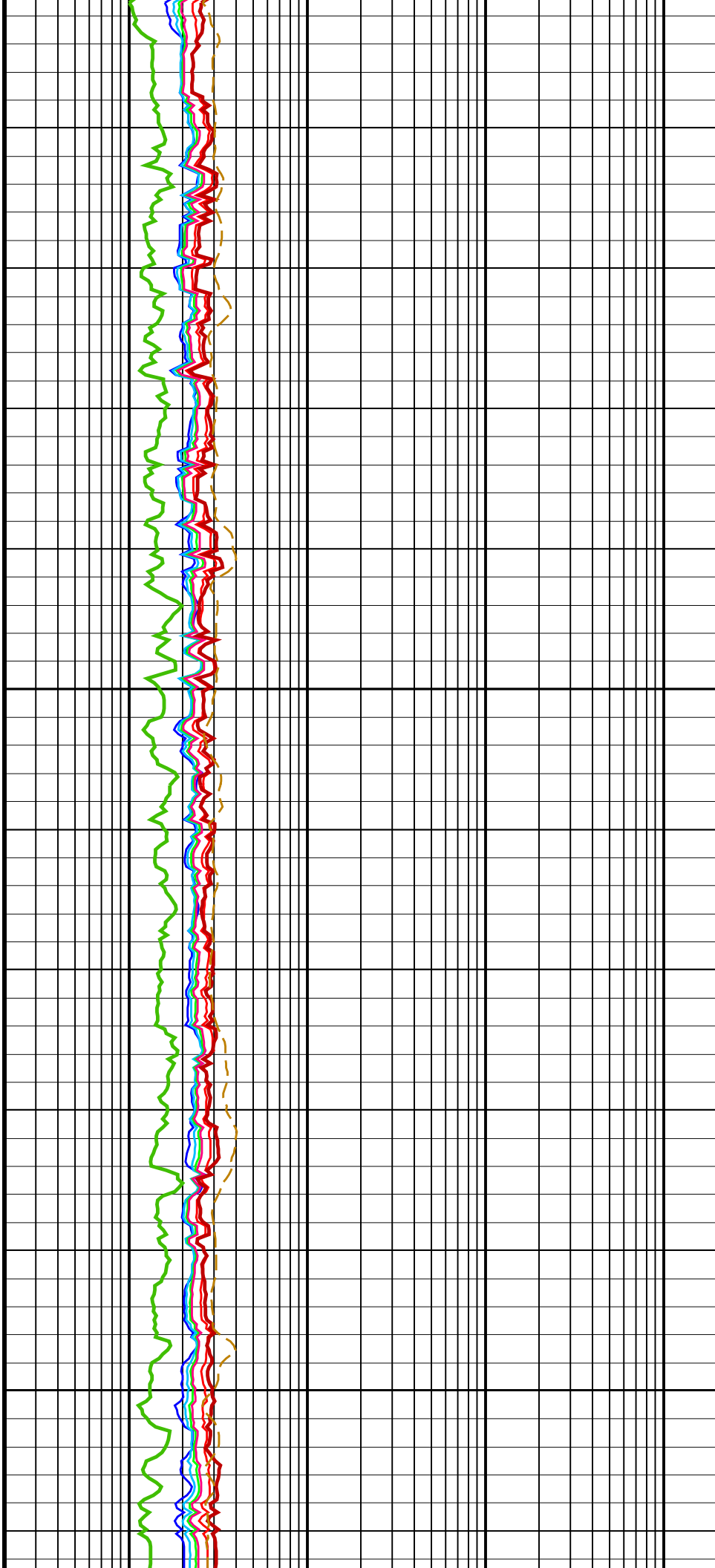


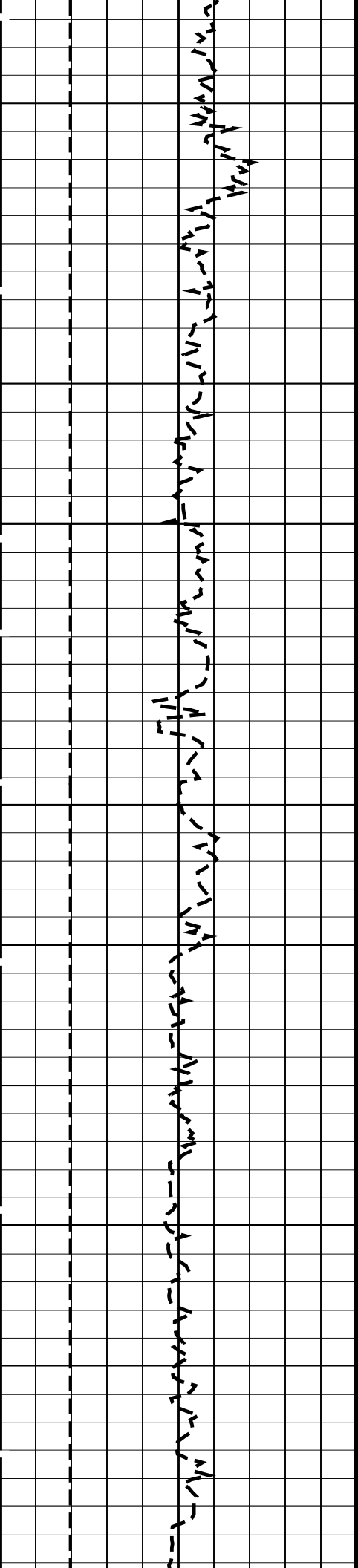




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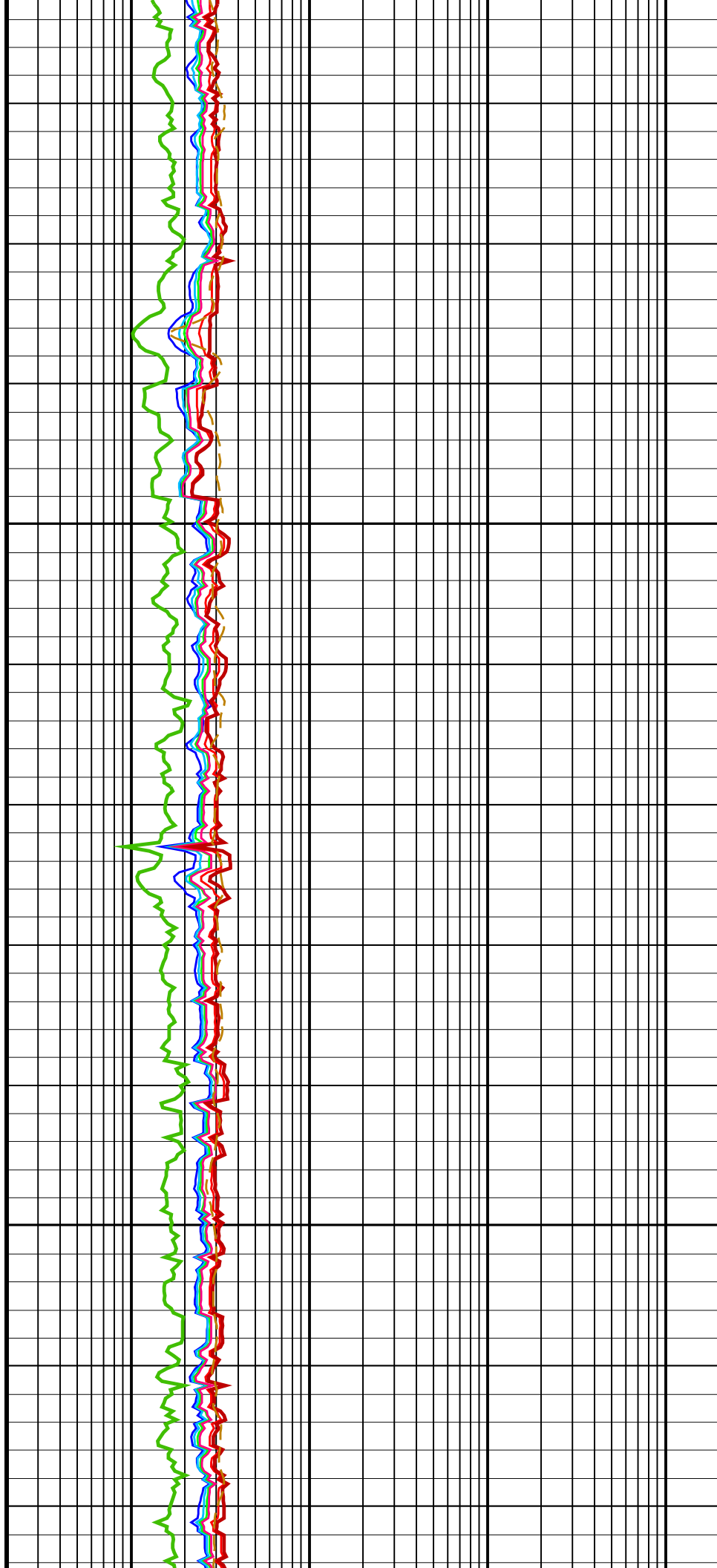
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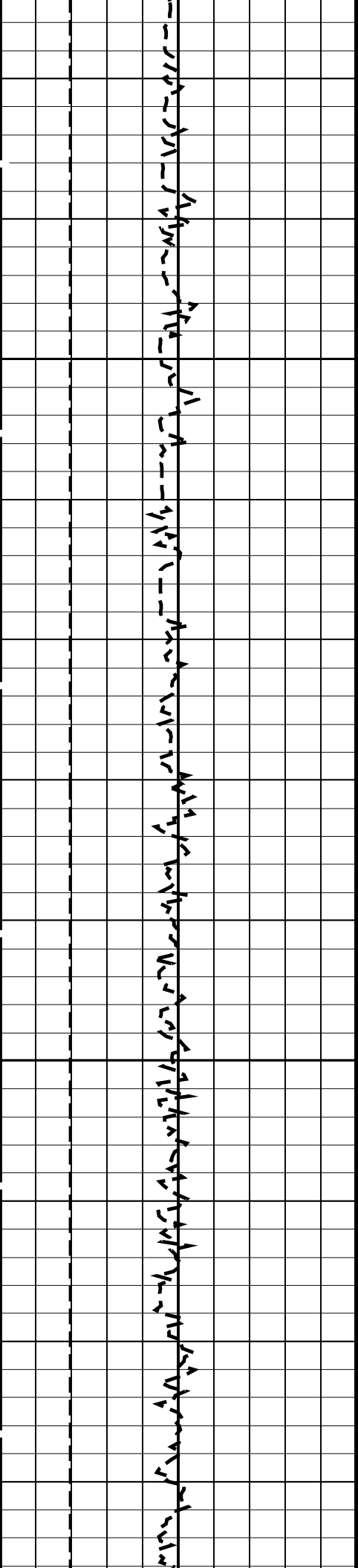




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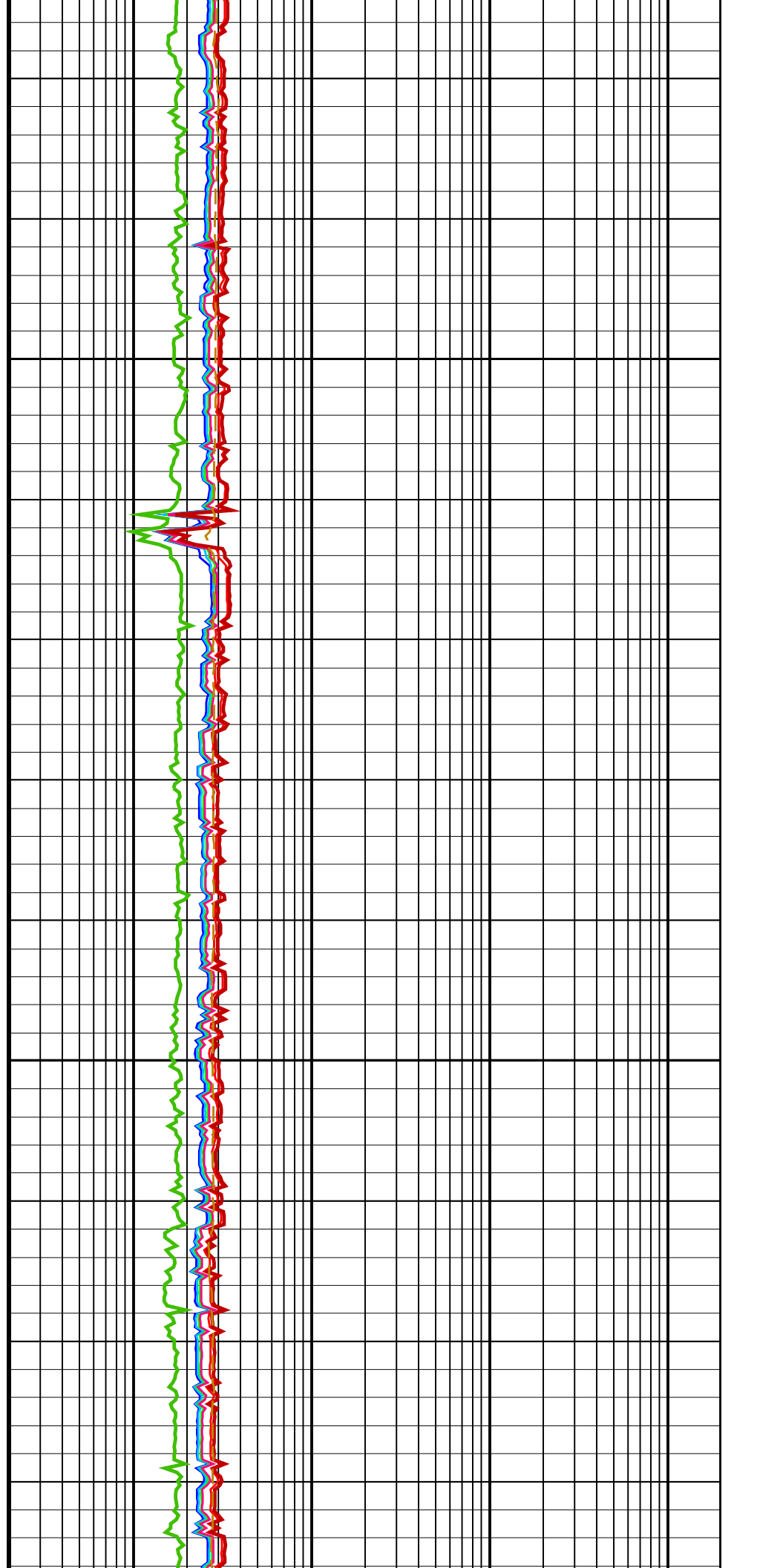
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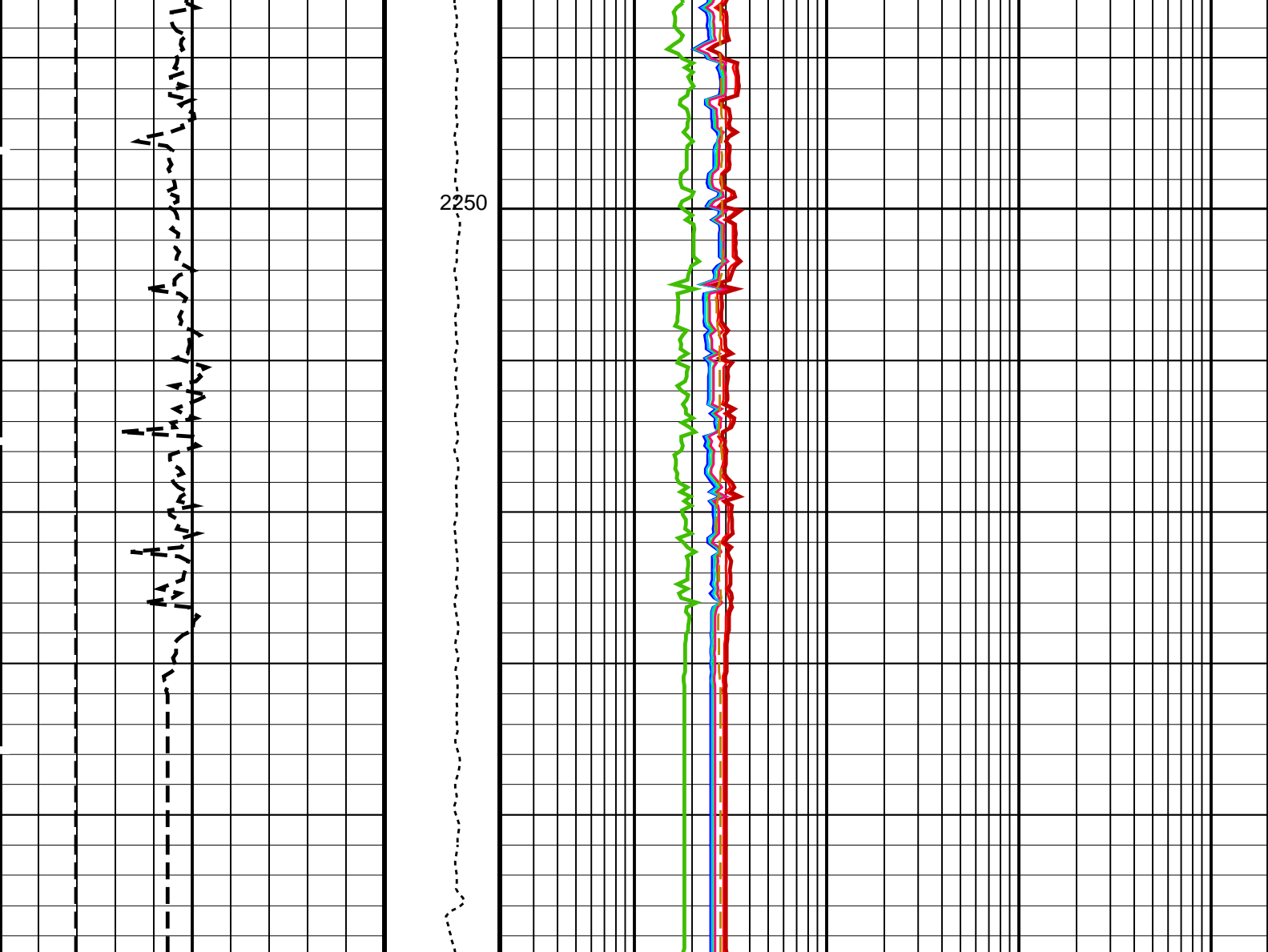




2200

2225





6	Bit Size (BS)	26	Tension (TENS) (LBF)	HRLT Resistivity 1 (RLA1)	
	(IN)			0.2	2000
0	Invasion Diameter (DI_HRLT)	50	10000	HRLT Resistivity 2 (RLA2)	
	(IN)			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

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
MST	Mud Sample Temperature	73.40	DEGF
TD	Total Depth	10190.3	FT

Format: HRLT

Vertical Scale: 1:200

Graphics File Created: 23-Dec-2023 05:59

OP System Version: 19C0-187

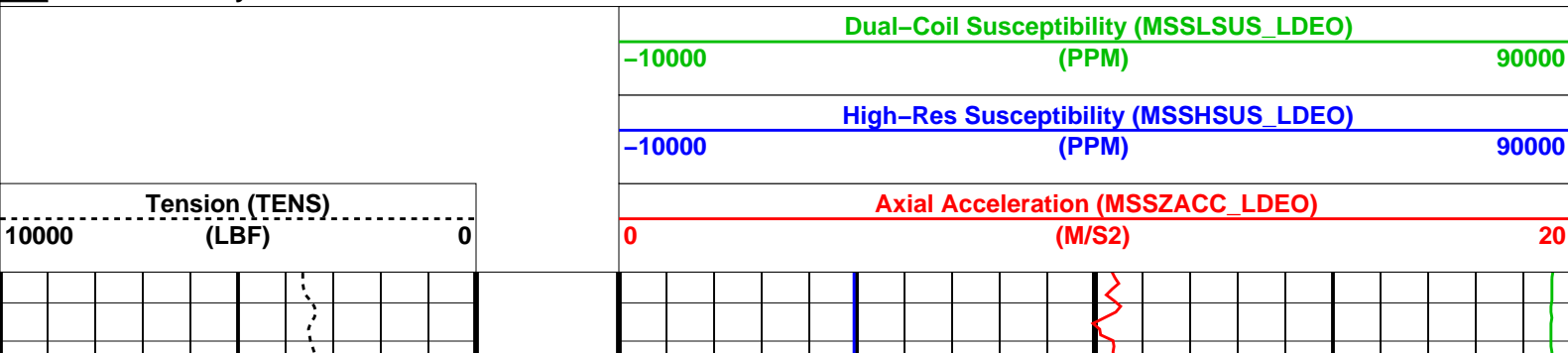
Output DLIS Files

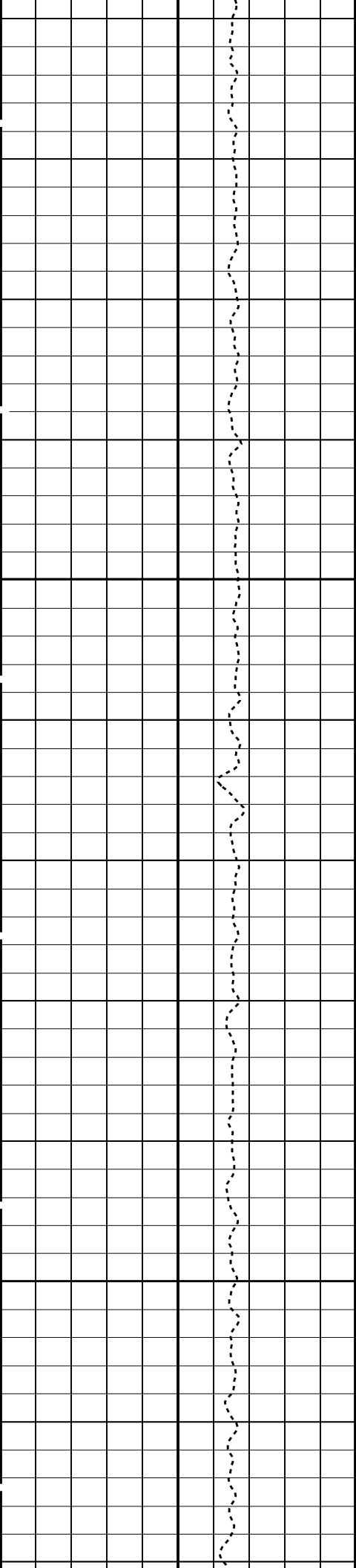
Company: International Ocean Discovery Program	Well: Expedition 401, Site U1609A
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Output DLIS Files

OP System Version: 19C0-187

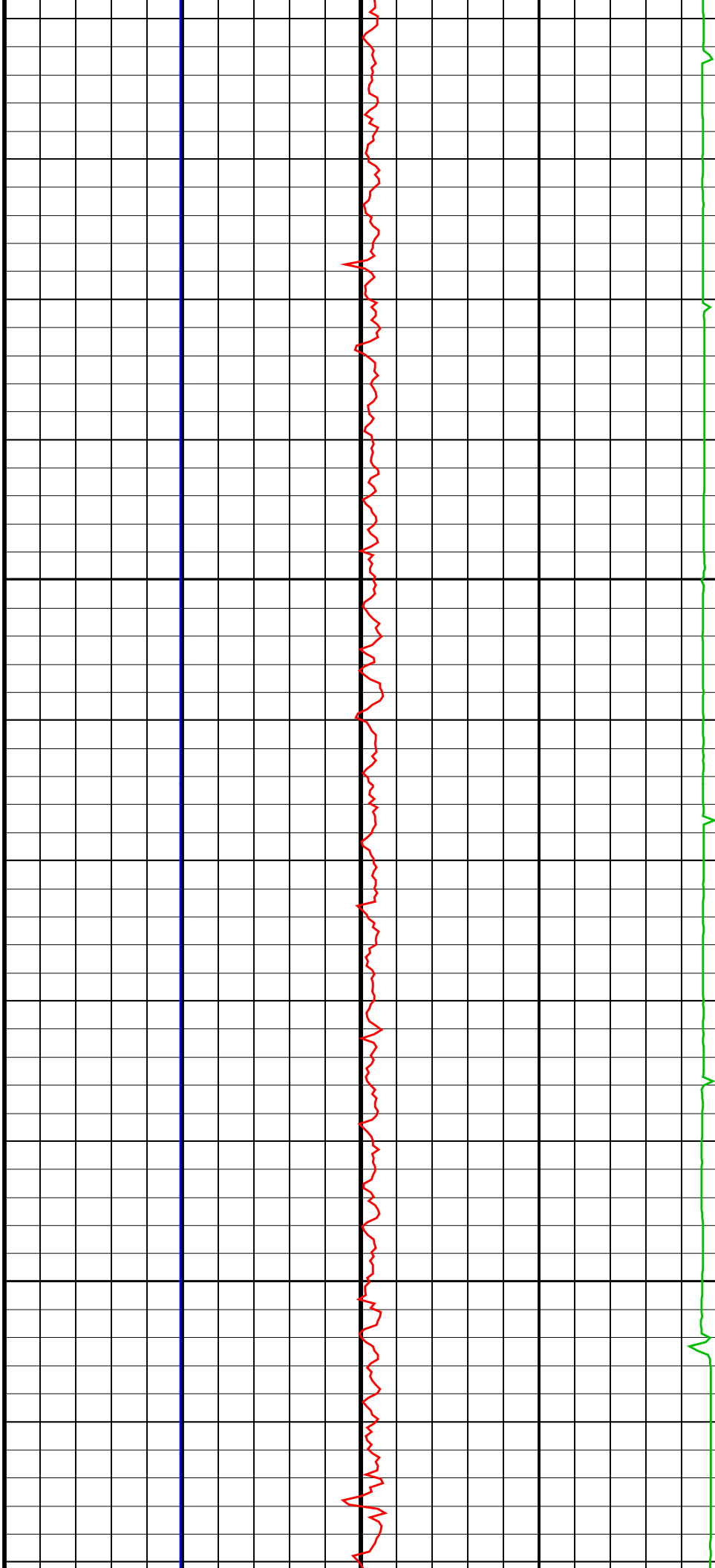
PIP SUMMARY

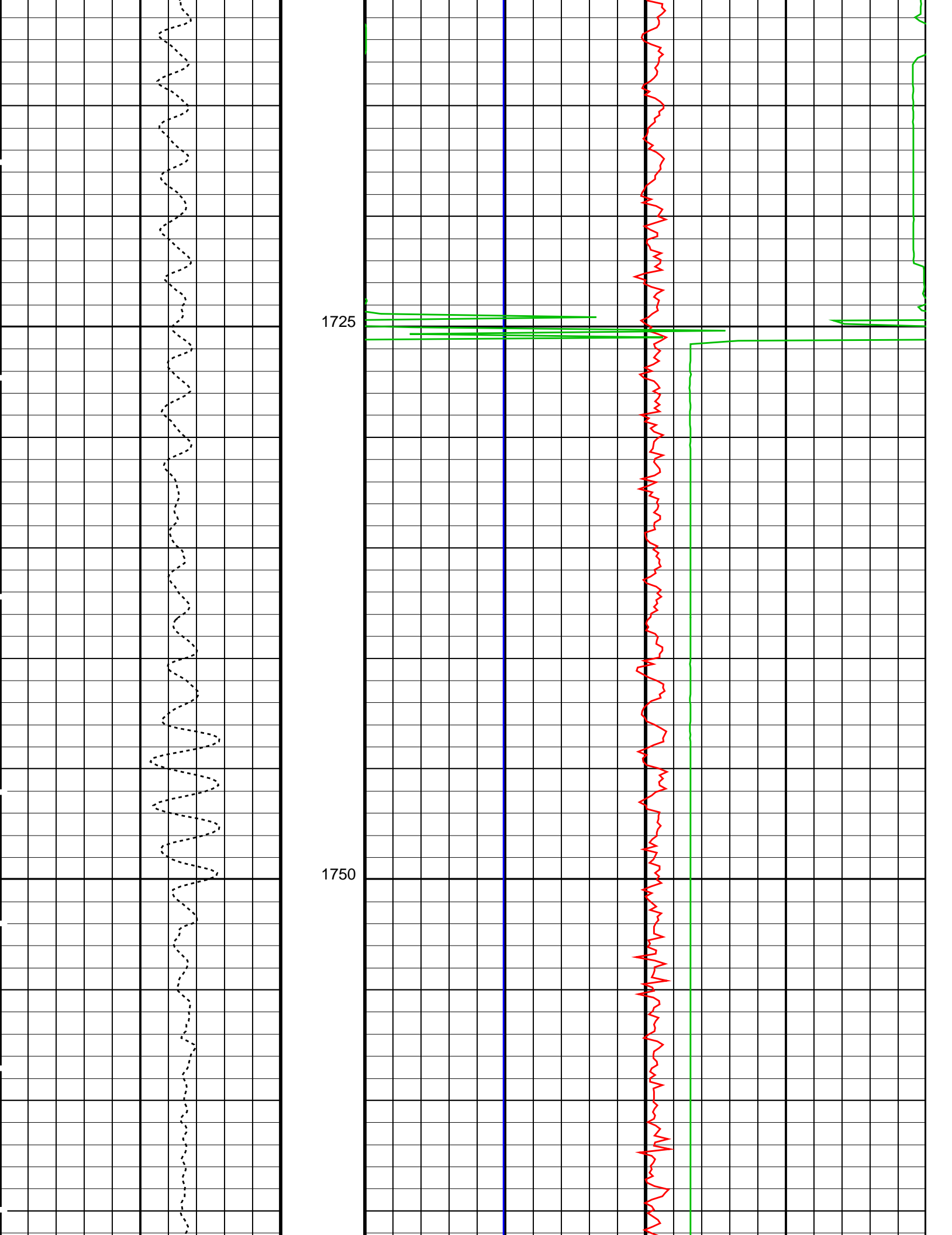


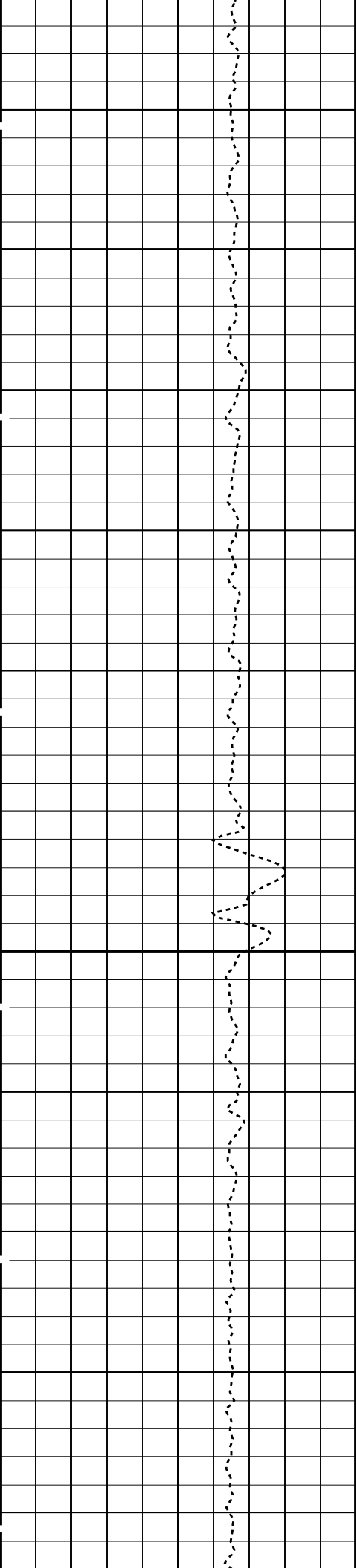


1675

1700

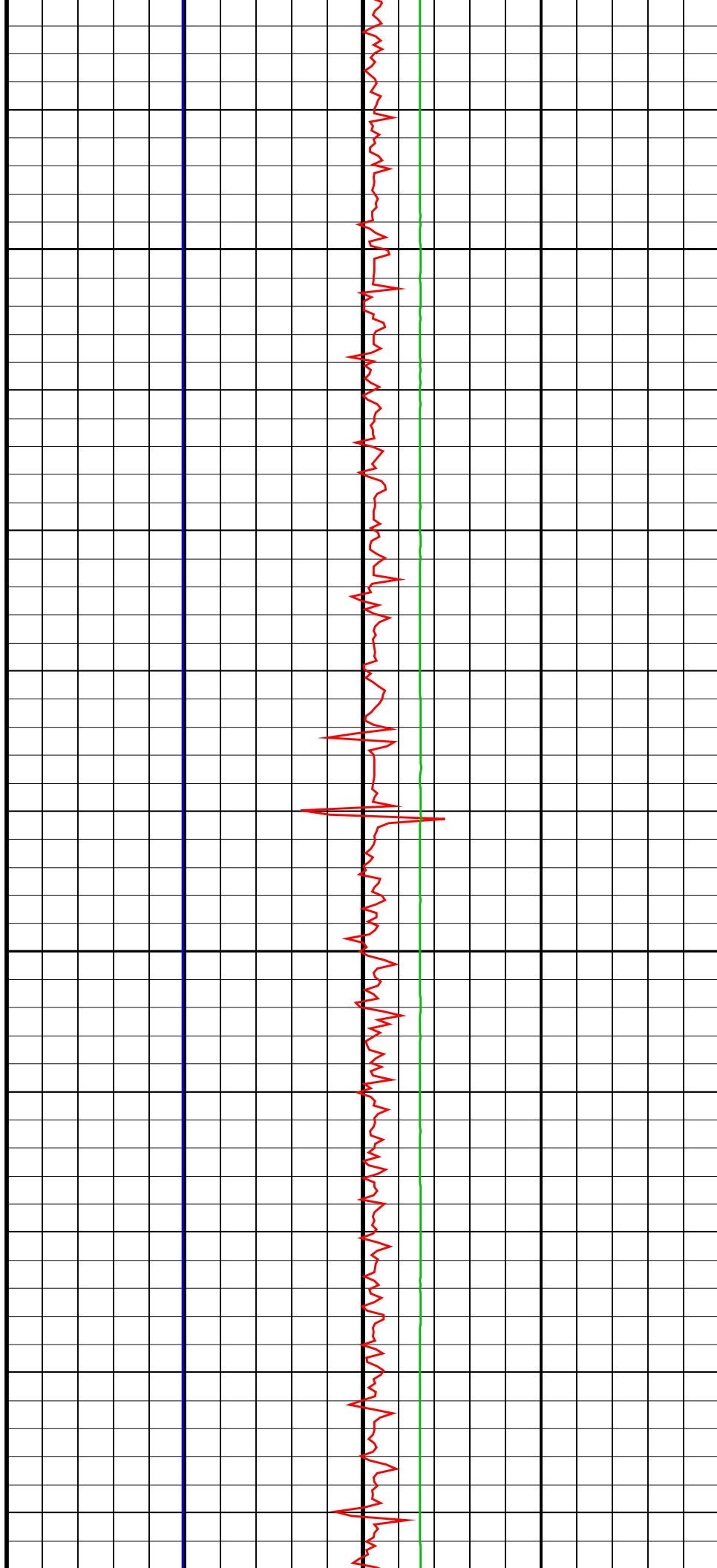


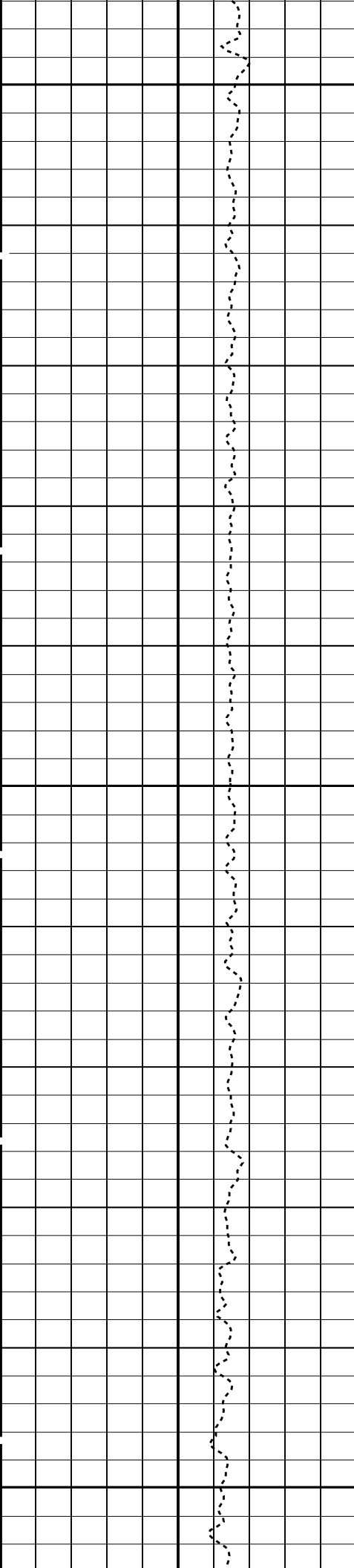




1775

1800

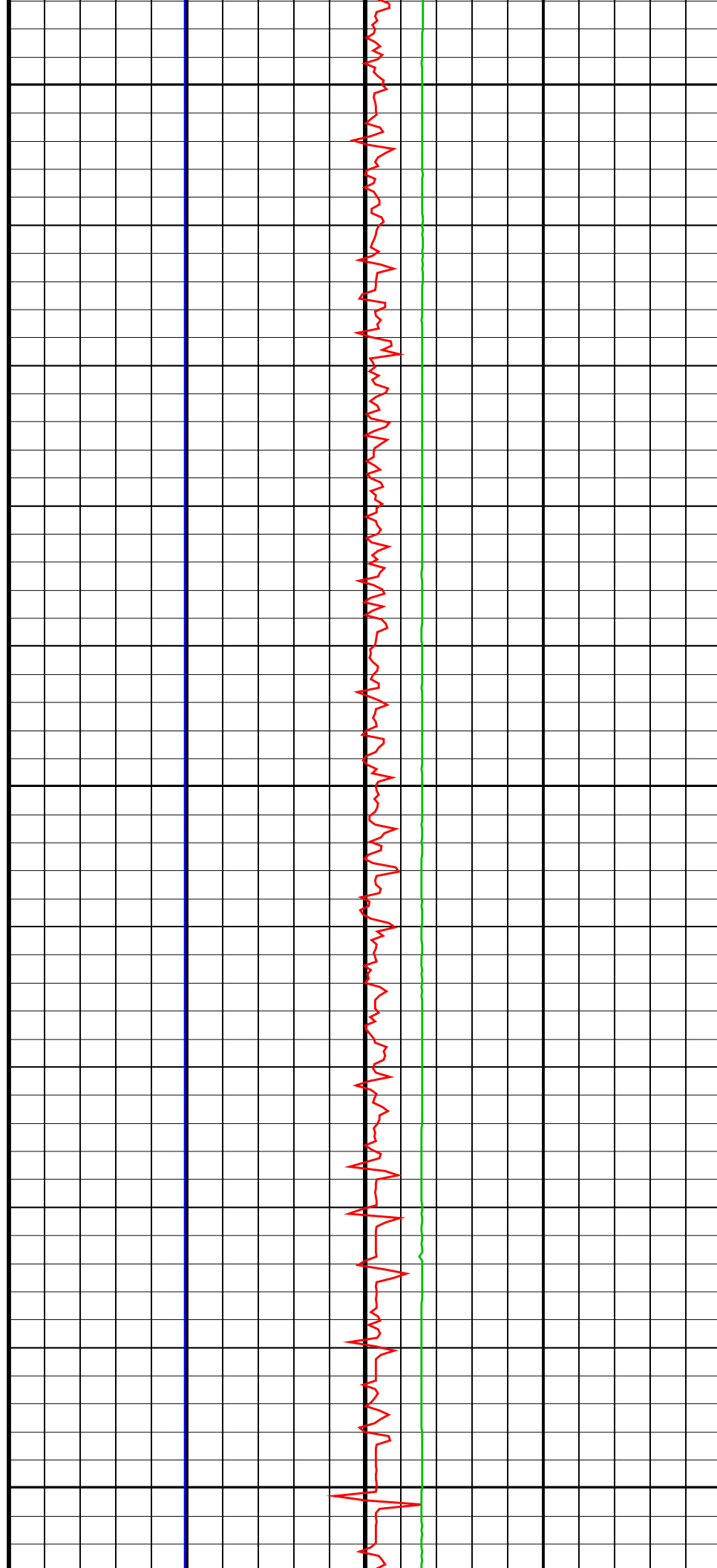


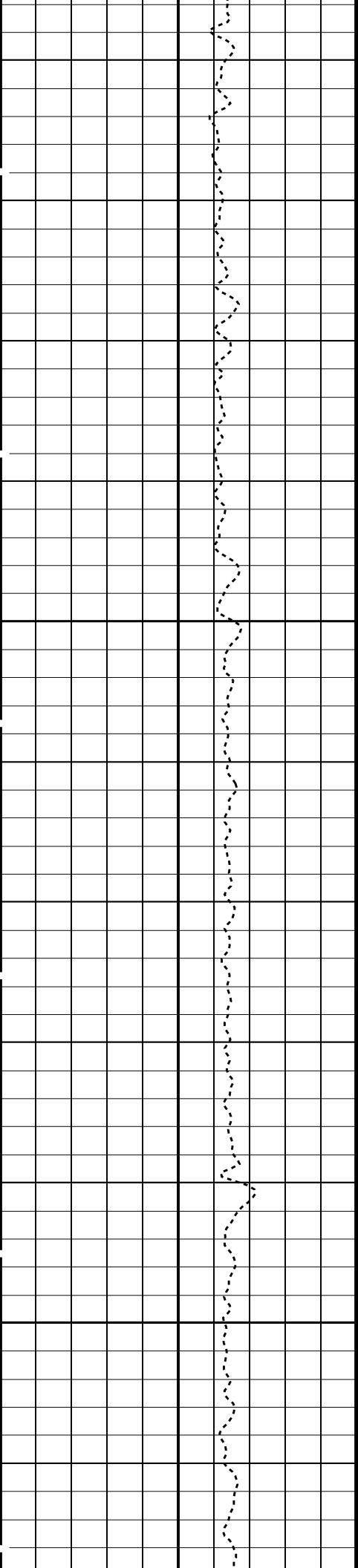


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1850

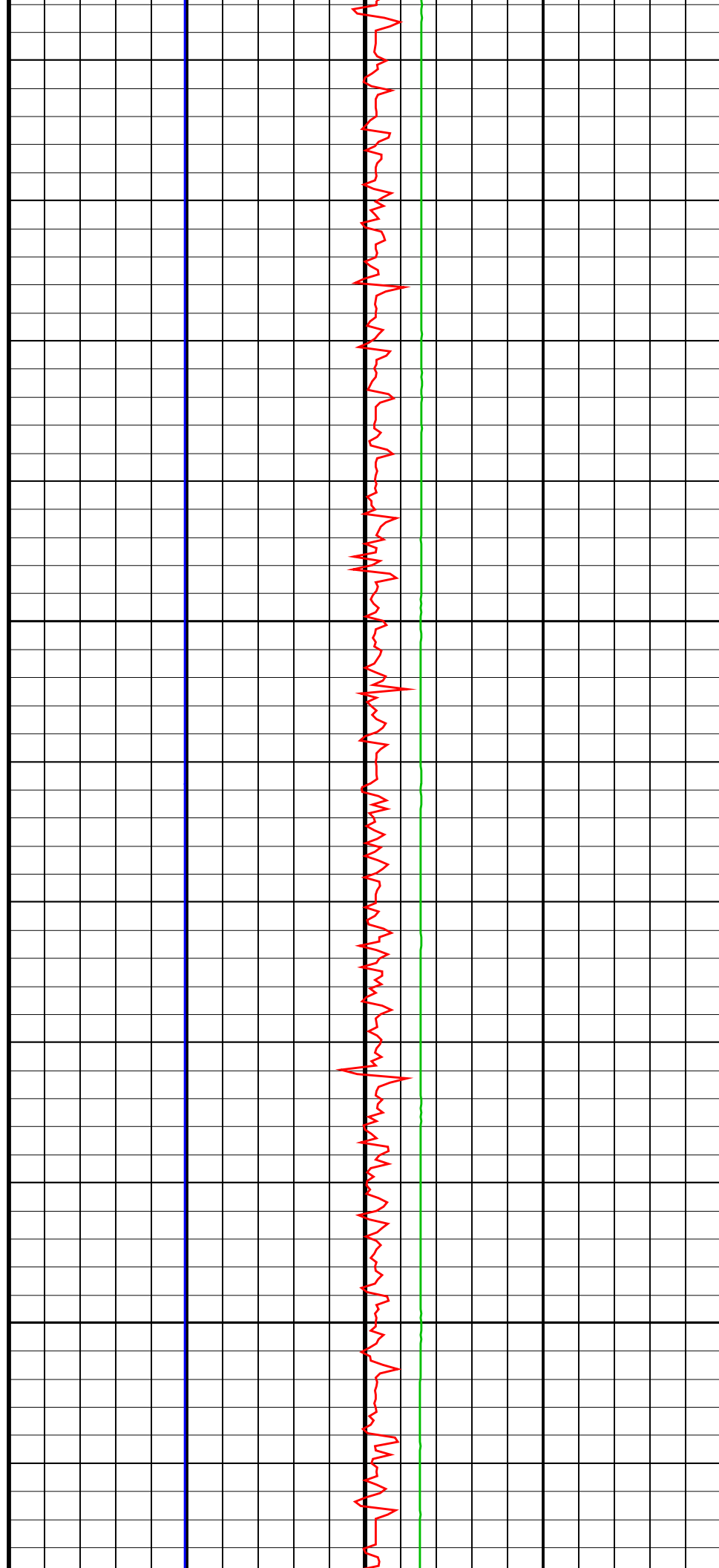
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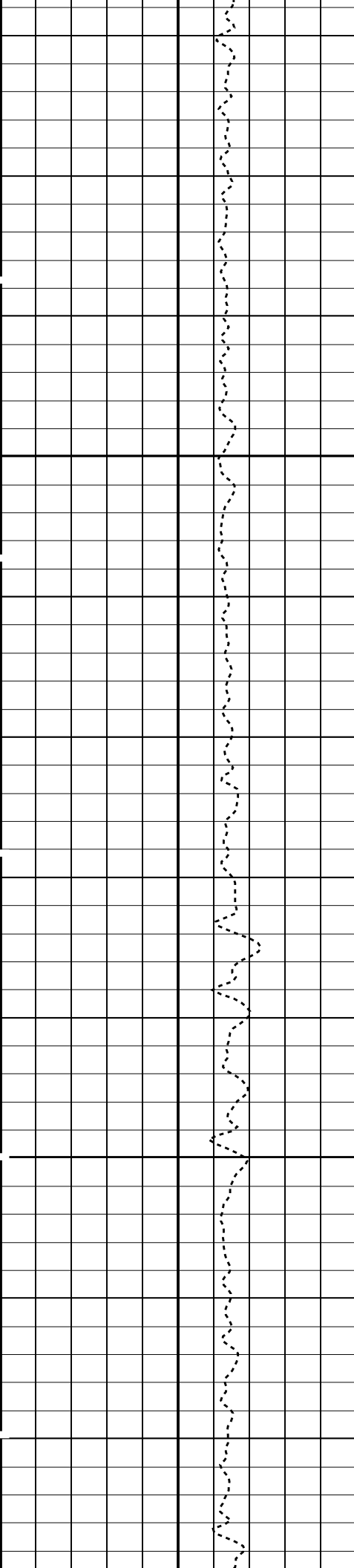




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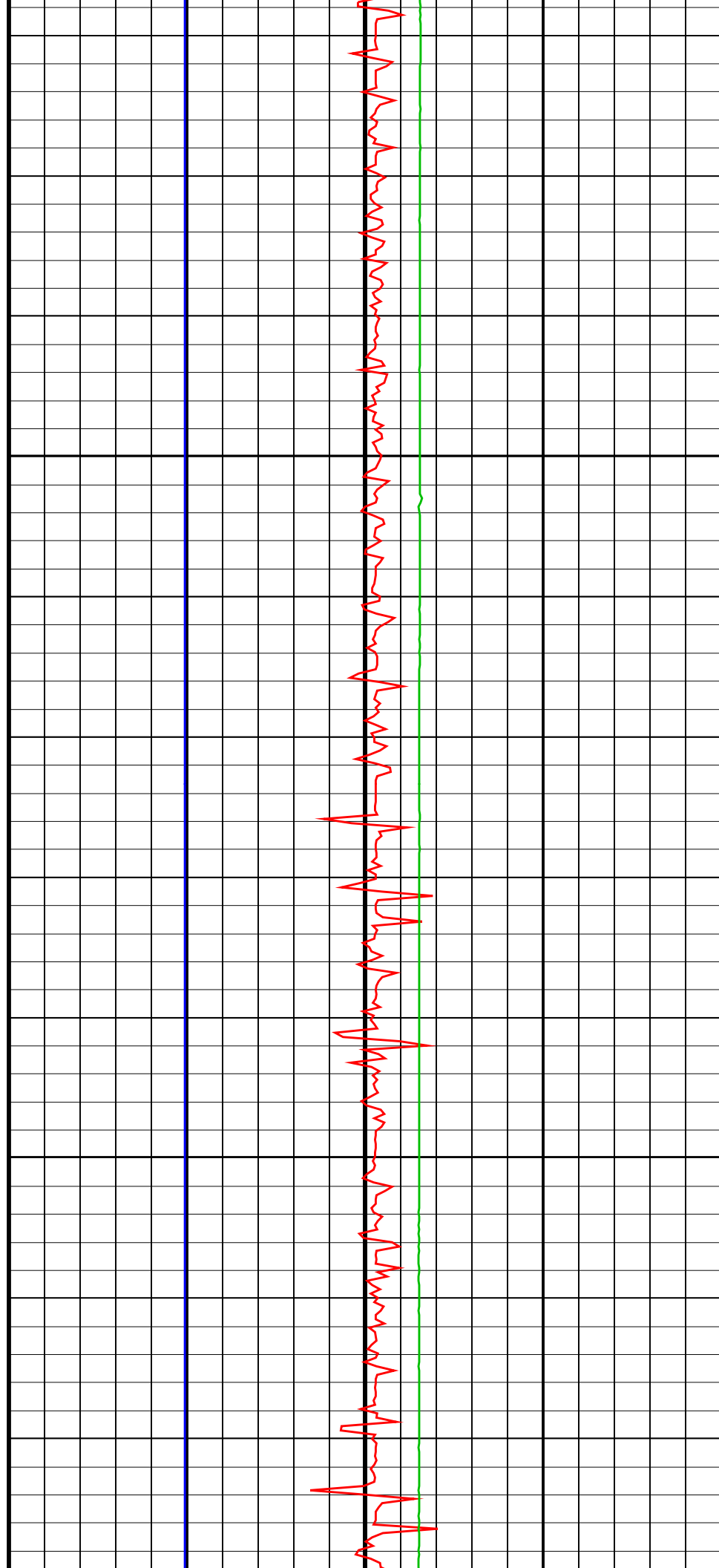
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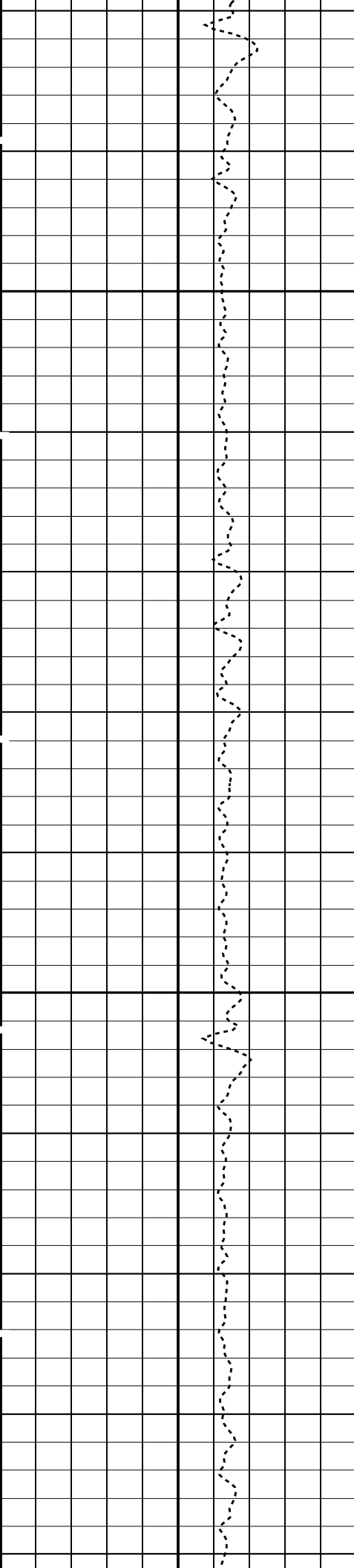




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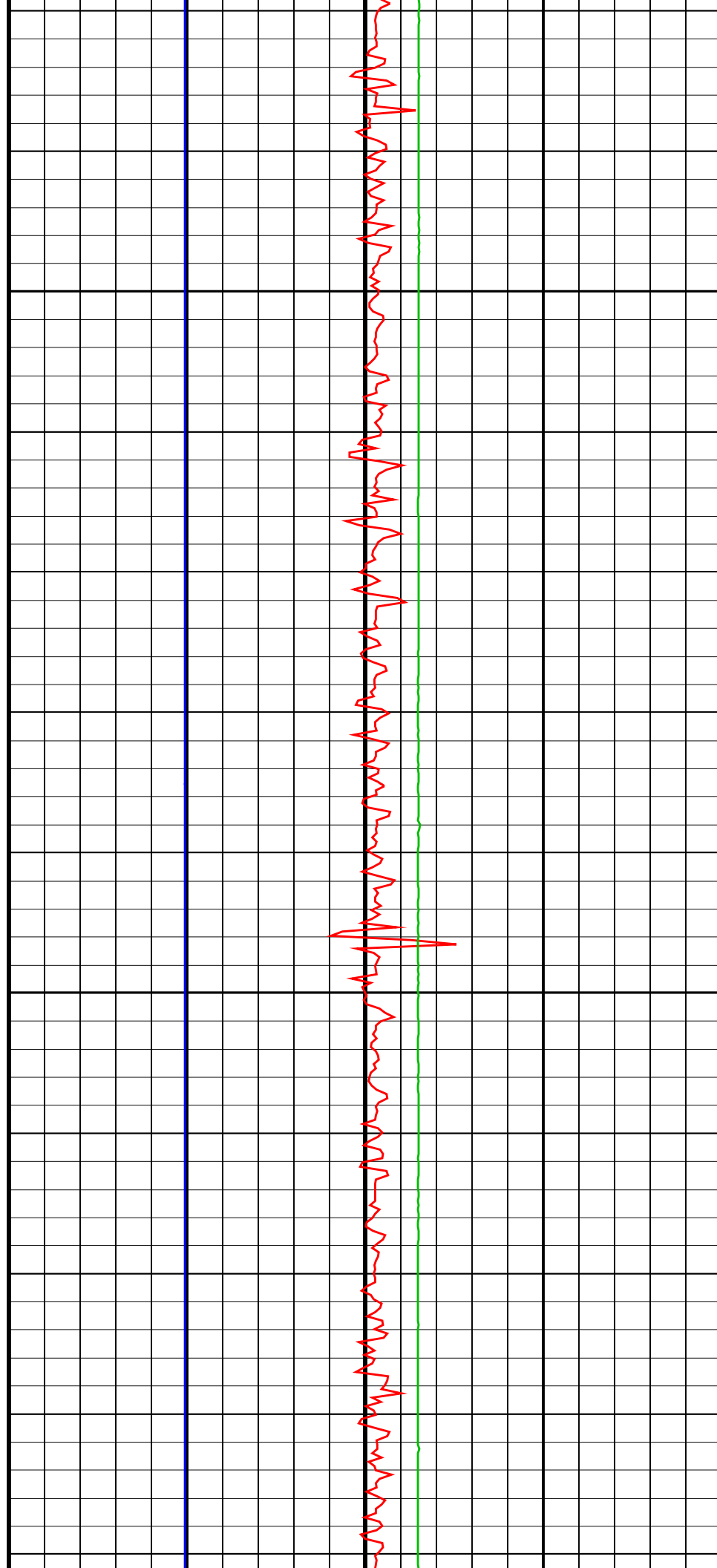
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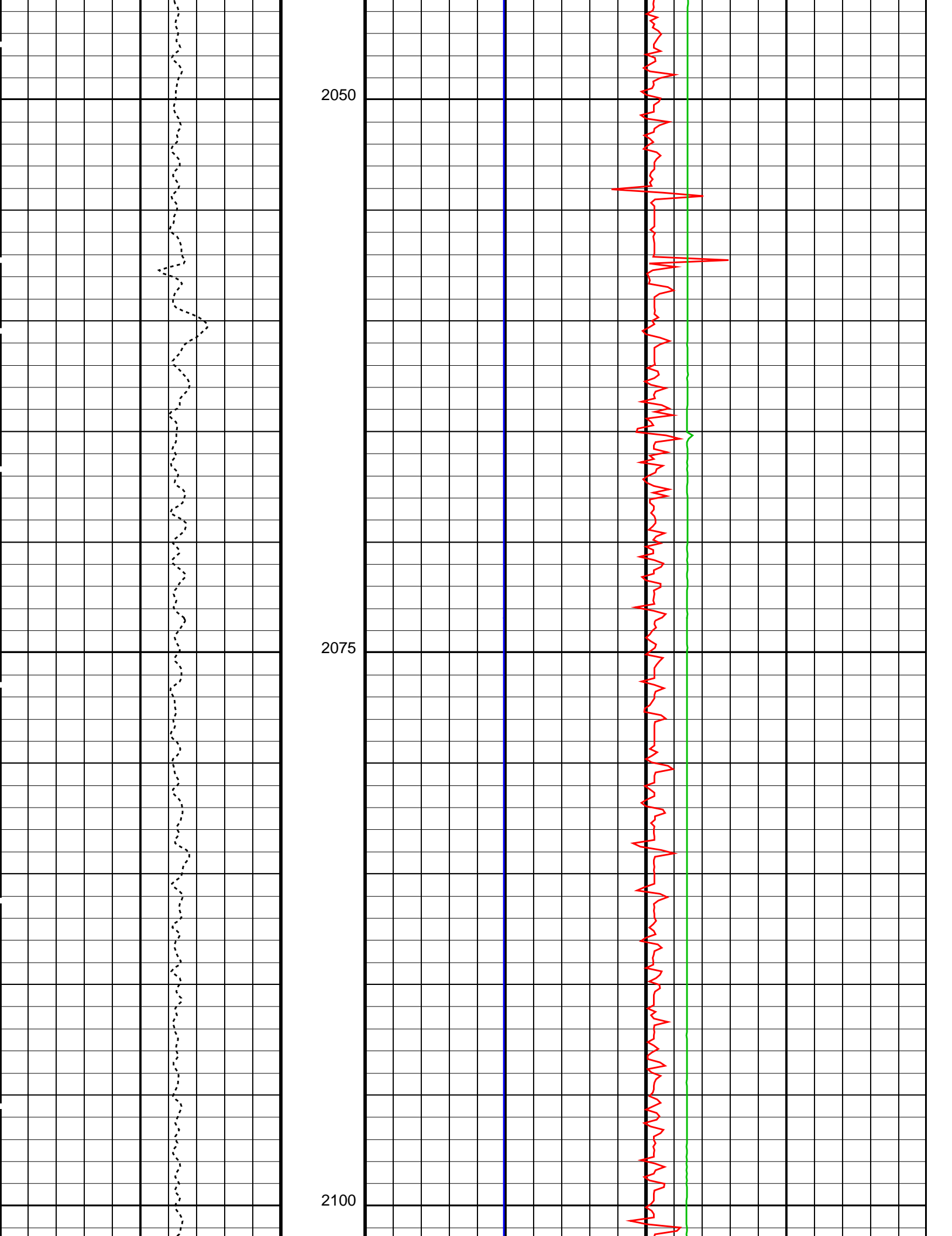


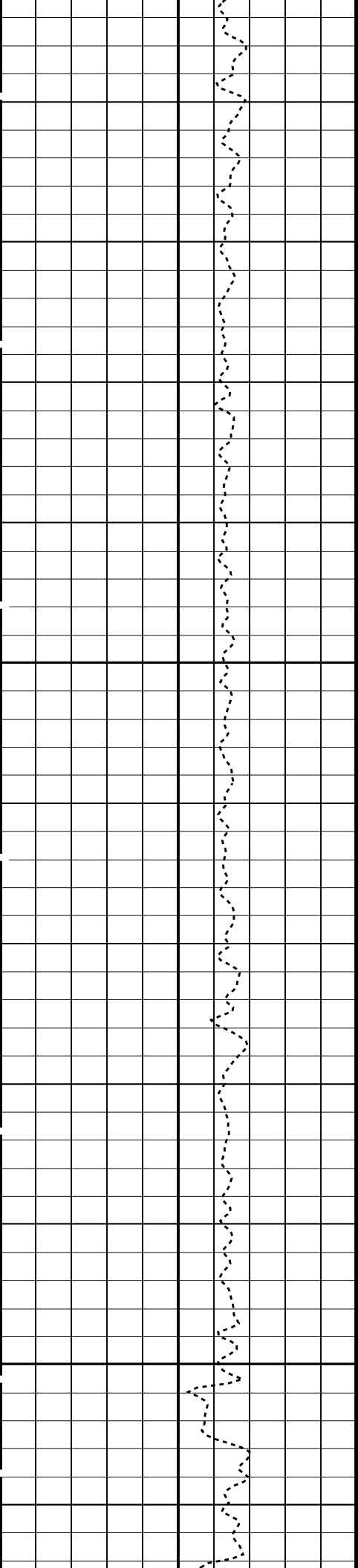


2000

2025

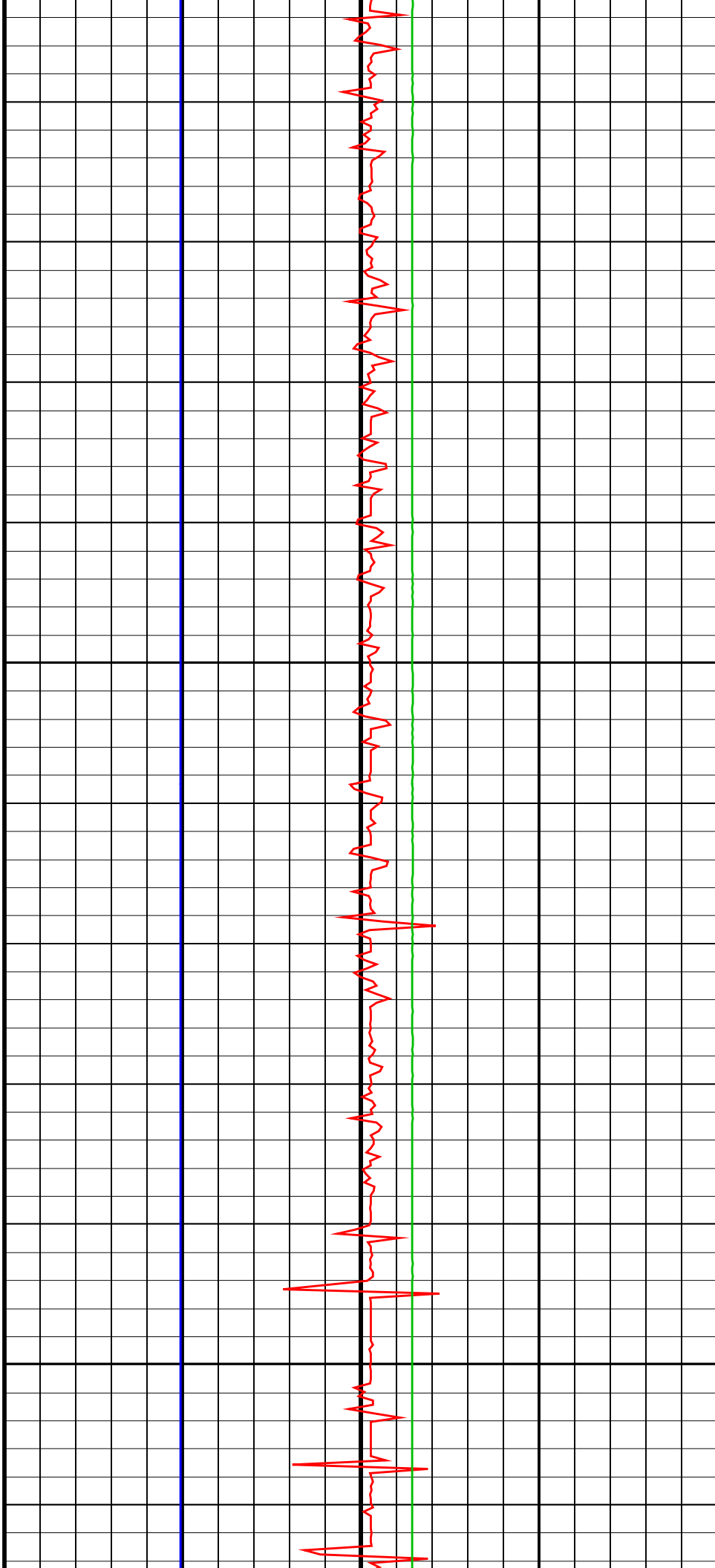


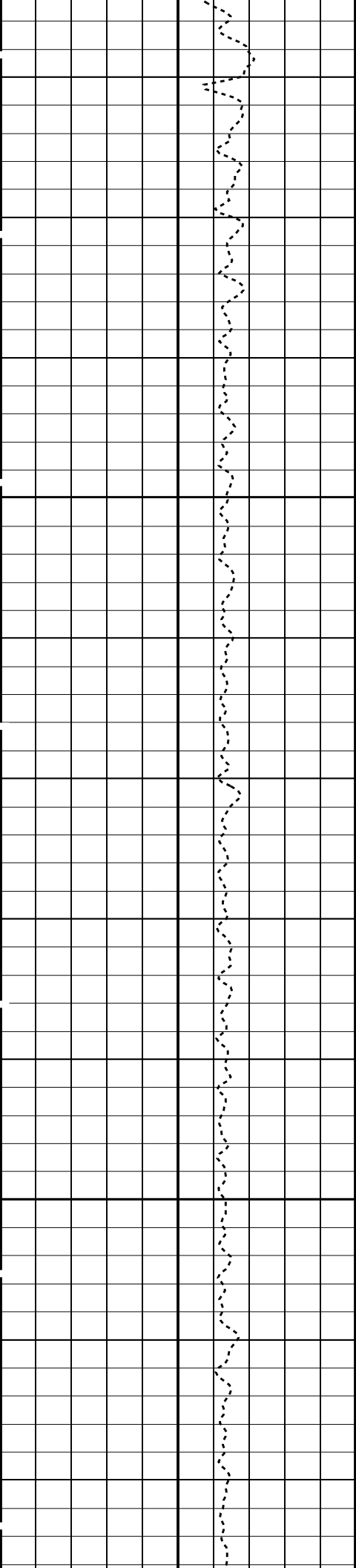




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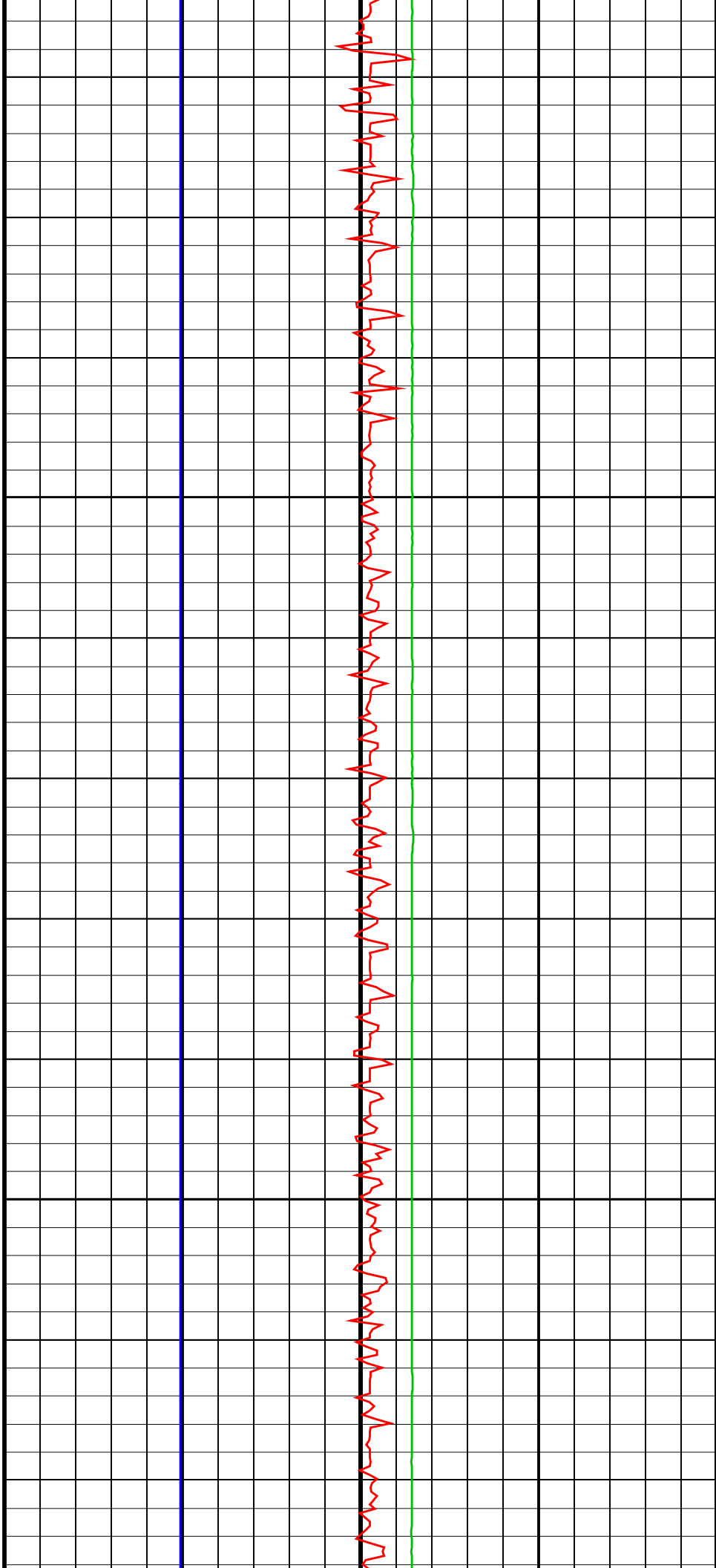
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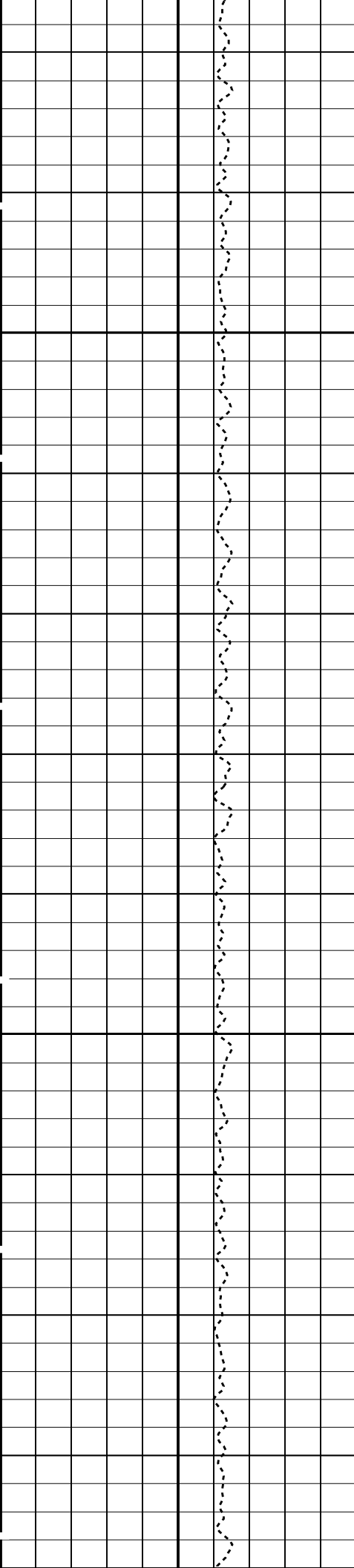




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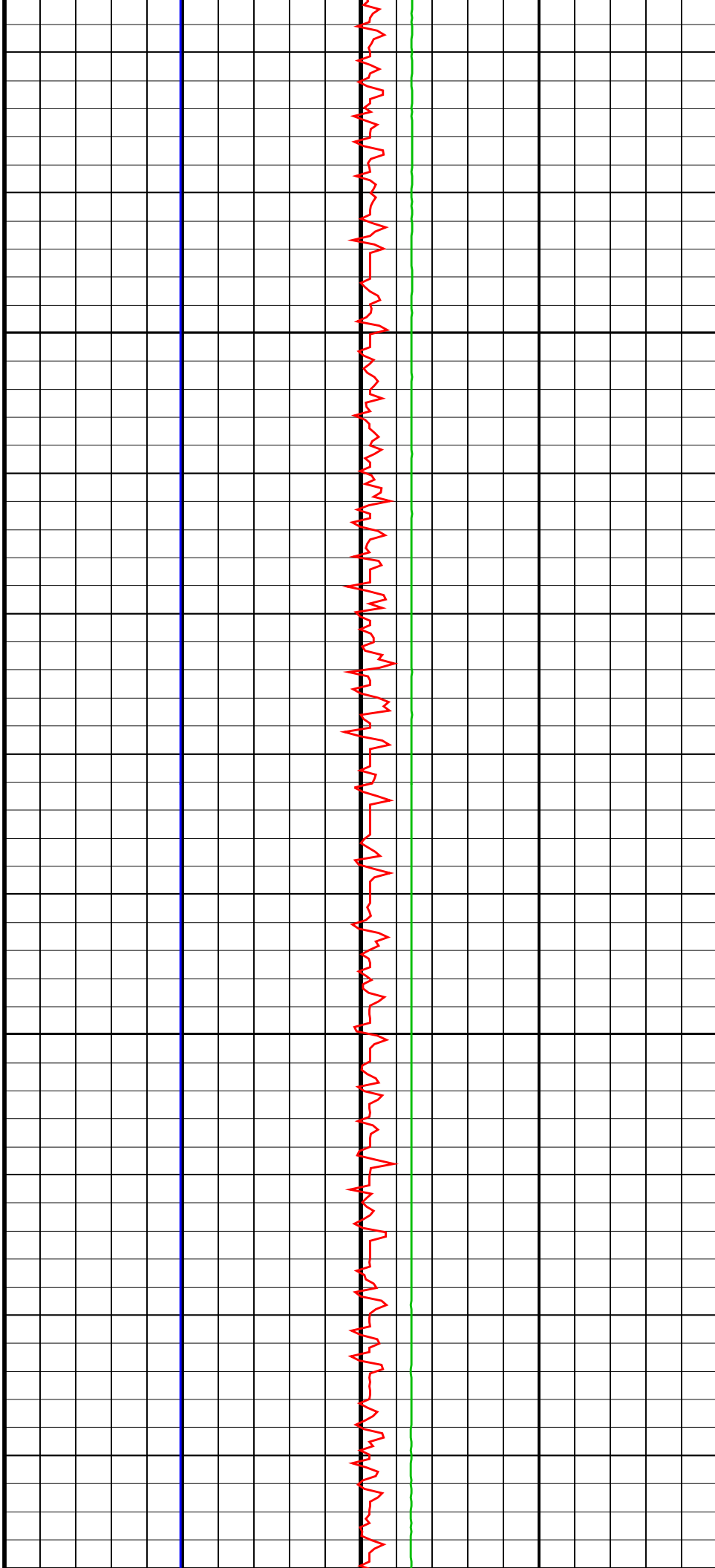
2200





2225

2250



















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: 25-Sep-2023 2:32							
HRLT M2-M3 Voltage Plus - 0	0	N/A	1729	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1803	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1838	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1791	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1741	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1752	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1741	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: 25-Sep-2023 2:32							
HRLT A3-A4 Voltage Plus - 0	0	N/A	68530	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	71340	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	73030	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	71380	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	69360	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	69800	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-67940	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: 25-Sep-2023 2:32							
HRLT A4-A5 Voltage Plus - 0	0	N/A	68610	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	71550	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	73220	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	71510	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	69470	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	69900	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-68150	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: 25-Sep-2023 2:32							
HRLT A5-A6 Voltage Plus - 0	0	N/A	68460	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	71390	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	73060	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	71390	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	69340	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	69760	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-67990	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: 25-Sep-2023 2:32							
HRLT Torpedo-M0 Voltage - 0	0	N/A	-68020	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-71200	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-72910	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-71290	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-69310	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69740	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	67760	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: 25-Sep-2023 2:32							
HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68060	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-71300	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-73000	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-71380	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-69360	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69780	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	67860	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: 25-Sep-2023 2:32							
HRLT Source Current Plus - 0	0	N/A	284.0	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: 25-Sep-2023 2:32							
HRLT Vertical Voltage Plus - 0	0	N/A	-319.9	N/A	N/A	9.681	UV






HRLT Vertical Voltage PI – 1	0	N/A	-323.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 2	0	N/A	-329.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 3	0	N/A	-318.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 4	0	N/A	-308.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 5	0	N/A	-324.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 6	0	N/A	325.4	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: 15–Dec–2023 14:22							
SS Cs Resolution Bkg	9.000	7.792	7.840	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	8.029	8.096	N/A	N/A	1.800	%
LSW1 Background	100.0	67.89	67.79	N/A	N/A	3.000	CPS
LSW2 Background	100.0	60.22	61.28	N/A	N/A	3.000	CPS
LSW3 Background	200.0	137.9	136.7	N/A	N/A	6.000	CPS
LSW4 Background	250.0	171.3	172.7	N/A	N/A	7.500	CPS
LSW5 Background	600.0	402.6	401.1	N/A	N/A	18.00	CPS
SSW1 Background	100.0	65.12	65.19	N/A	N/A	3.000	CPS
SSW2 Background	200.0	111.7	111.2	N/A	N/A	6.000	CPS
SSW3 Background	500.0	311.0	313.5	N/A	N/A	15.00	CPS
SSW4 Background	270.0	168.2	167.4	N/A	N/A	8.100	CPS
SSW5 Background	200.0	121.1	119.6	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 19–Apr–2023 20:22 Before: Calibration out of date 13–Jun–2021 10:44							
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 19–Apr–2023 20:22 Before: Calibration out of date 13–Jun–2021 10:44							
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 19–Apr–2023 20:22 Before: Calibration out of date 13–Jun–2021 10:44							
Coincidence Count Rate Ratio	1.000	0.9913	0.9527	N/A	N/A	0.05000	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: Calibration out of date 31–Aug–2023 8:28							
EDTC Z–Axis Acceleration	9.810	N/A	9.844	N/A	N/A	N/A	M/S2




Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration								
Before: Calibration out of date 4–May–2022 21:10								
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









High Resolution Laterolog Array – B / Equipment Identification		
Primary Equipment:		
HRLT Sonde	HRLS – B	768
Auxiliary Equipment:		
HRLT lower Housing	HRLH – B	1869
HRLT Lower Cartridge	HRLC – B	1897
HRLT upper Housing	HRUH – B	975
HRLT Upper Cartridge	HRUC – B	964









High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M01						
Idx	Phase	HRLT M0–M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		–318.6	–322.7	–280.7	–379.7
1	Before		–330.0	–322.7	–280.7	–379.7
2	Before		–337.0	–322.7	–280.7	–379.7
3	Before		–327.4	–322.7	–280.7	–379.7
4	Before		–319.2	–322.7	–280.7	–379.7
5	Before		–320.7	–322.7	–280.7	–379.7
6	Before		319.5	322.7	379.7	280.7
7	Before		–322.7	–322.7	–280.7	–379.7
(Minimum) (Nominal) (Maximum)						
Before: 25–Sep–2023 2:32						









High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1–M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1736	1781	2095	1549
1	Before		1801	1781	2095	1549
2	Before		1834	1781	2095	1549
3	Before		1782	1781	2095	1549
4	Before		1739	1781	2095	1549
5	Before		1748	1781	2095	1549
6	Before		–1750	–1781	–1549	–2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 25–Sep–2023 2:32						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1729	1781	2095	1549
1	Before		1803	1781	2095	1549
2	Before		1838	1781	2095	1549
3	Before		1791	1781	2095	1549
4	Before		1741	1781	2095	1549
5	Before		1733	1781	2095	1549

5	Before		1752	1781	2095	1549
6	Before		-1741	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 25-Sep-2023 2:32						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68530	70000	82360	60900
1	Before		71340	70000	82360	60900
2	Before		73030	70000	82360	60900
3	Before		71380	70000	82360	60900
4	Before		69360	70000	82360	60900
5	Before		69800	70000	82360	60900
6	Before		-67940	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						
Before: 25-Sep-2023 2:32						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68610	70000	82360	60900
1	Before		71550	70000	82360	60900
2	Before		73220	70000	82360	60900
3	Before		71510	70000	82360	60900
4	Before		69470	70000	82360	60900
5	Before		69900	70000	82360	60900
6	Before		-68150	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						
Before: 25-Sep-2023 2:32						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68460	70000	82360	60900
1	Before		71390	70000	82360	60900
2	Before		73060	70000	82360	60900
3	Before		71390	70000	82360	60900
4	Before		69340	70000	82360	60900
5	Before		69760	70000	82360	60900
6	Before		-67990	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						
Before: 25-Sep-2023 2:32						


High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum

0	Before		-68020	-70000	-60900	-82360
1	Before		-71200	-70000	-60900	-82360
2	Before		-72910	-70000	-60900	-82360
3	Before		-71290	-70000	-60900	-82360
4	Before		-69310	-70000	-60900	-82360
5	Before		-69740	-70000	-60900	-82360
6	Before		67760	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						
Before: 25-Sep-2023 2:32						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridle#9–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68060	-70000	-60900	-82360
1	Before		-71300	-70000	-60900	-82360
2	Before		-73000	-70000	-60900	-82360
3	Before		-71380	-70000	-60900	-82360
4	Before		-69360	-70000	-60900	-82360
5	Before		-69780	-70000	-60900	-82360
6	Before		67860	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						
Before: 25-Sep-2023 2:32						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		284.0	284.0	334.1	247.0
1	Before		281.1	281.1	330.7	244.4
2	Before		281.1	281.1	330.7	244.4
3	Before		281.1	281.1	330.7	244.4
4	Before		281.1	281.1	330.7	244.4
5	Before		281.1	281.1	330.7	244.4
6	Before		281.1	281.1	330.7	244.4
7	Before		281.1	281.1	330.7	244.4
(Minimum) (Nominal) (Maximum)						
Before: 25-Sep-2023 2:32						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-319.9	-322.7	-280.7	-379.7
1	Before		-323.5	-322.7	-280.7	-379.7
2	Before		-329.5	-322.7	-280.7	-379.7
3	Before		-318.8	-322.7	-280.7	-379.7
4	Before		-308.3	-322.7	-280.7	-379.7
5	Before		-324.7	-322.7	-280.7	-379.7
6	Before		325.4	322.7	379.7	280.7

7	Before		-322.7	-322.7	-280.7	-379.7
		(Minimum) (Nominal) (Maximum)				

Before: 25-Sep-2023 2:32

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:

Gamma Source Radioactive

GSR – ZA

2945

Hostile Litho Density Sonde

HLDS – D

77

Hostile Litho Density High Voltage

HLDV – D

67

Auxiliary Equipment:

Hostile Litho Density High Voltage Housi

HEH – H

67






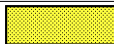









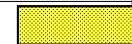
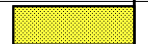
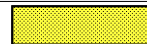






Hostile Litho Density Pad

HLDP – C

83

Hostile Litho-Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Cs Resolution Bkg %	Value	Phase	LS Cs Resolution Bkg %	Value	Phase	LSW1 Background CPS	Value
Master		7.792	Master		8.029	Master		67.89
Before		7.840	Before		8.096	Before		67.79
	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)	
Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value	Phase	LSW4 Background CPS	Value
Master		60.22	Master		137.9	Master		171.3
Before		61.28	Before		136.7	Before		172.7
	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)	
Phase	LSW5 Background CPS	Value	Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value
Master		402.6	Master		65.12	Master		111.7
Before		401.1	Before		65.19	Before		111.2
	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)	
Phase	SSW3 Background CPS	Value	Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value
Master		311.0	Master		168.2	Master		121.1
Before		313.5	Before		167.4	Before		119.6
	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: 15-Dec-2023 14:22

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

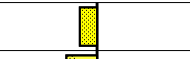


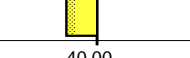


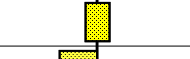





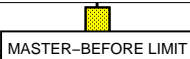
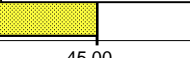
Hostile Natural Gamma Ray Sonde Wellsite Calibration


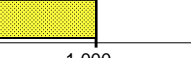
Detector 1 Check

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 19-Apr-2023 20:22 Before: Calibration out of date 13-Jun-2021 10:44								

Hostile Natural Gamma Ray Sonde Wellsite Calibration

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 19-Apr-2023 20:22 Before: Calibration out of date 13-Jun-2021 10:44											

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 19-Apr-2023 20:22		
Before: Calibration out of date 13-Jun-2021 10:44		


Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:
EDTC Gamma Ray Detector
Enhanced DTS Cartridge

EDTG – A/B 79159
EDTC – B 8081

Auxiliary Equipment:
EDTC Housing

EDTH – B 8226

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.844
	<div>9.610</div> <div>9.810</div> <div>10.01</div> <div>(Minimum)</div> <div>(Nominal)</div> <div>(Maximum)</div>	
Before: Calibration out of date 31-Aug-2023 8:28		

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	<div><div></div></div>			1.417	Before	<div><div></div></div>			113.7	Before	<div><div></div></div>			165.4
	0	30.00	120.0		103.4	113.7	124.1			150.0	165.0	180.0		
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)		
Before: Calibration out of date 4-May-2022 21:10														

Company:	International Ocean Discovery Program	Schlumberger
Well:	Expedition 401, Site U1609A	
Field:	Mediterranean–Atlantic Gateway Exchange	
Rig:	JOIDES Resolution	
Country:	Portugal	
HNGS, HLDS, HRLA, MSS Gamma, Density, Resistivity, Mag		