



Well: **Expedition 397, Site U1587C**
Field: **Iberian Margin Paleoclimate**
Rig: **JOIDES Resolution** Country: **Portugal**

Rig:	JOIDES Resolution				
Field:	Iberian Margin Paleoclimate				
Location:	Latitude: N 37° 24.8750'				
Well:	Expedition 397, Site U1587C				
Company:	International Ocean Discovery Program				
LOCATION		Latitude: N 37° 24.8750'		Elev.:	K.B. 0.00 m
		Longitude: W 10° 21.5205'			G.L. -3490.20 m
					D.F. 0.00 m
		Permanent Datum: Sea Floor		Elev.:	-3490.20 m
		Log Measured From: Rig Floor		3490.20 m above Perm. Datum	
		Drilling Measured From: Rig Floor			
Ocean: Atlantic		Max. Well Deviation 5 deg		Longitude W 10.358675*	Latitude N 37.58129*

Logging Date			15-Nov-2022					
Run Number			1					
Depth Driller			4058.1 m					
Schlumberger Depth			4048 m					
Bottom Log Interval			4048 m					
Top Log Interval			3490.2 m					
Casing Driller Size @ Depth			5.500 in @ 3572.2 m			@		
Casing Schlumberger			3572.2 m					
Bit Size			9.875 in					
Type Fluid In Hole			Sea Water					
MUD	Density	Viscosity	1.05 g/cm3					
	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		0.369 @ 5	@ 5		@	@	
Maximum Recorded Temperatures			5 degC					
Circulation Stopped		Time	14-Nov-2022		21:00			
Logger On Bottom		Time	15-Nov-2022		3:00			
Unit Number		Location	627314	Larose, LA				
Recorded By			C. Furman					
Witnessed By			K. Grigar					

[illegible]

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DISCLAIMER

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REMARKS: RUN NUMBER 1

Hole drilled with APC/XCP bottom hole assembly (BHA) using PDC bit at 9.875" BS

TD (Driller) 4058.1mbrf

Drill pipe set at 3572.2mbrf

Fluid type was sea water, displaced in the hole prior to logging.

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 and while logging down.

Hole size corrections made using caliper measurements for upward passes bit size

used for downlog corrections.

AHC used from TD then switched off at 3610mbrf to facilitate pipe entry.

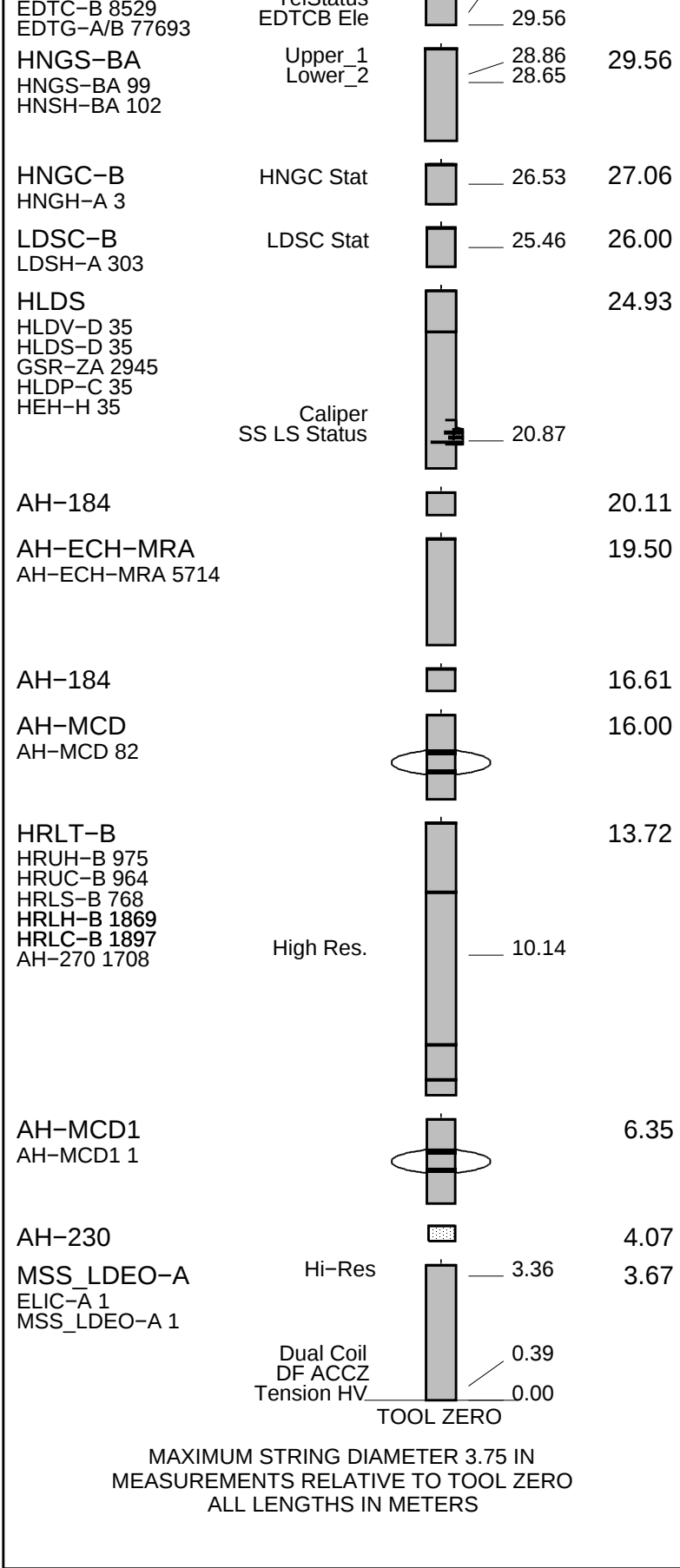
Hole had several spots that were significantly under-gauge, so no additional passes could be attempted.

Downlog flipped and note the caliper closed logging down.

SERVICE ORDER #: PROGRAM VERSION: 19C0-187 FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT	DESCRIPTION
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RUN 1		RUN 2	
SURFACE EQUIPMENT			
GSR-U 6098 WITM (EDTS)-A			
DOWNHOLE EQUIPMENT			
LEH-QT			32.87
LEH-QT 301	MDSB_EDTC		
AH-369	Mud Tempe		31.54
	CTEM		30.48
EDTC-B	Gamma Ray		29.91
EDTH-B 8528	EFTB DIAG		31.54
	TelStatus		



Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	OP	ID	MD	MD	OP	ID

[illegible]



Downlog

MAXIS Field Log

Company: International Ocean Discovery Program Well: Expedition 397, Site U1587C

Input DLIS Files						
DEFAULT	Flip_MSS_LDEO_HRLA_LDL_012LUP	PRODUCER	15-Nov-2022 05:18	4048.4 M	3442.7 M	
Output DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_014PUP	FN:15	PRODUCER	15-Nov-2022 05:19	4048.4 M	3442.7 M
RTB	MSS_LDEO_HRLA_LDL_014PUP	FN:16	PRODUCER	15-Nov-2022 05:19	4048.4 M	3442.7 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

0 (GAPI) 100

HNGS Borehole Potassium (HBHK)

HNGS Uranium (HURA)

(PPM)

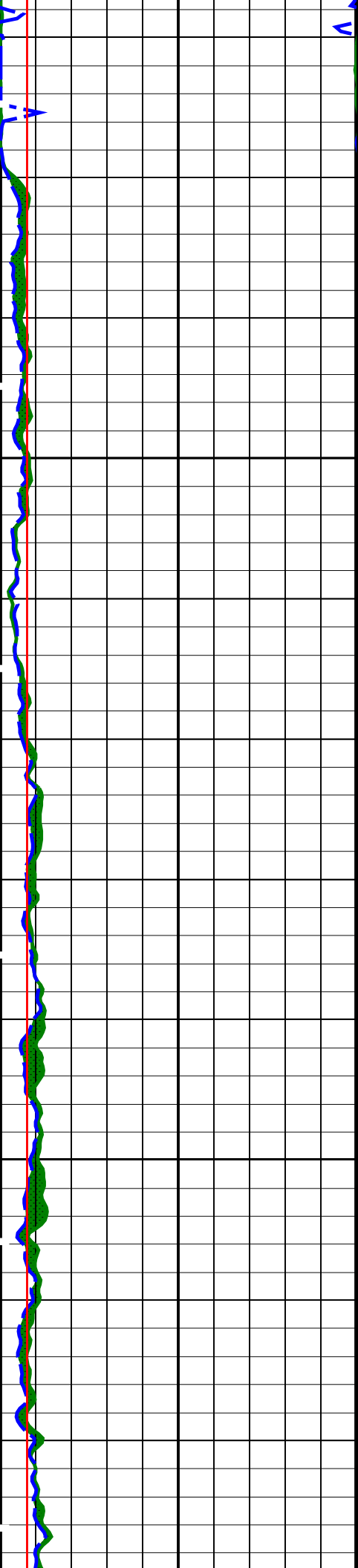
-5 5

**Tension
(TENS)
(LBF)**

HNGS Thorium (HTHO)

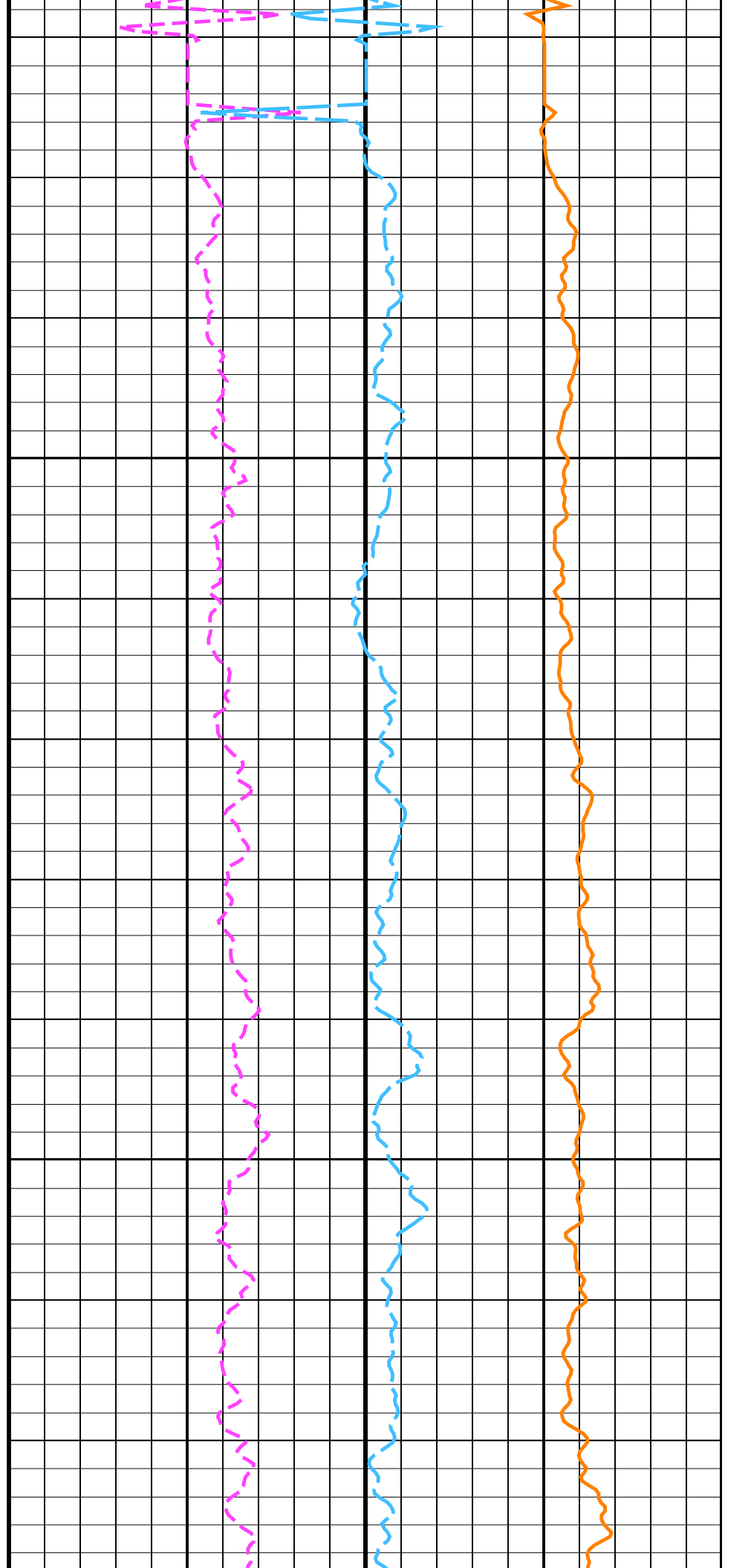
HNGS Potassium (HFK)	
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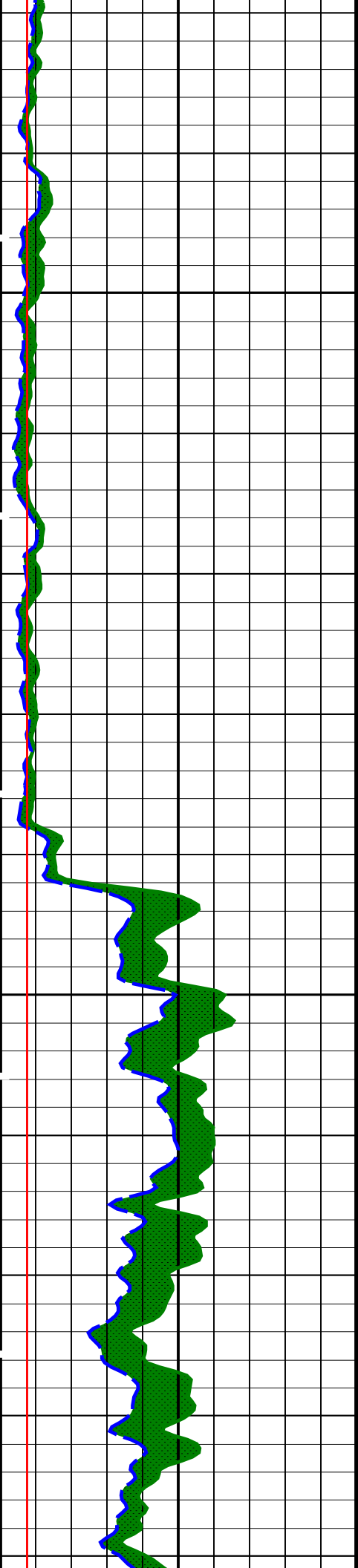
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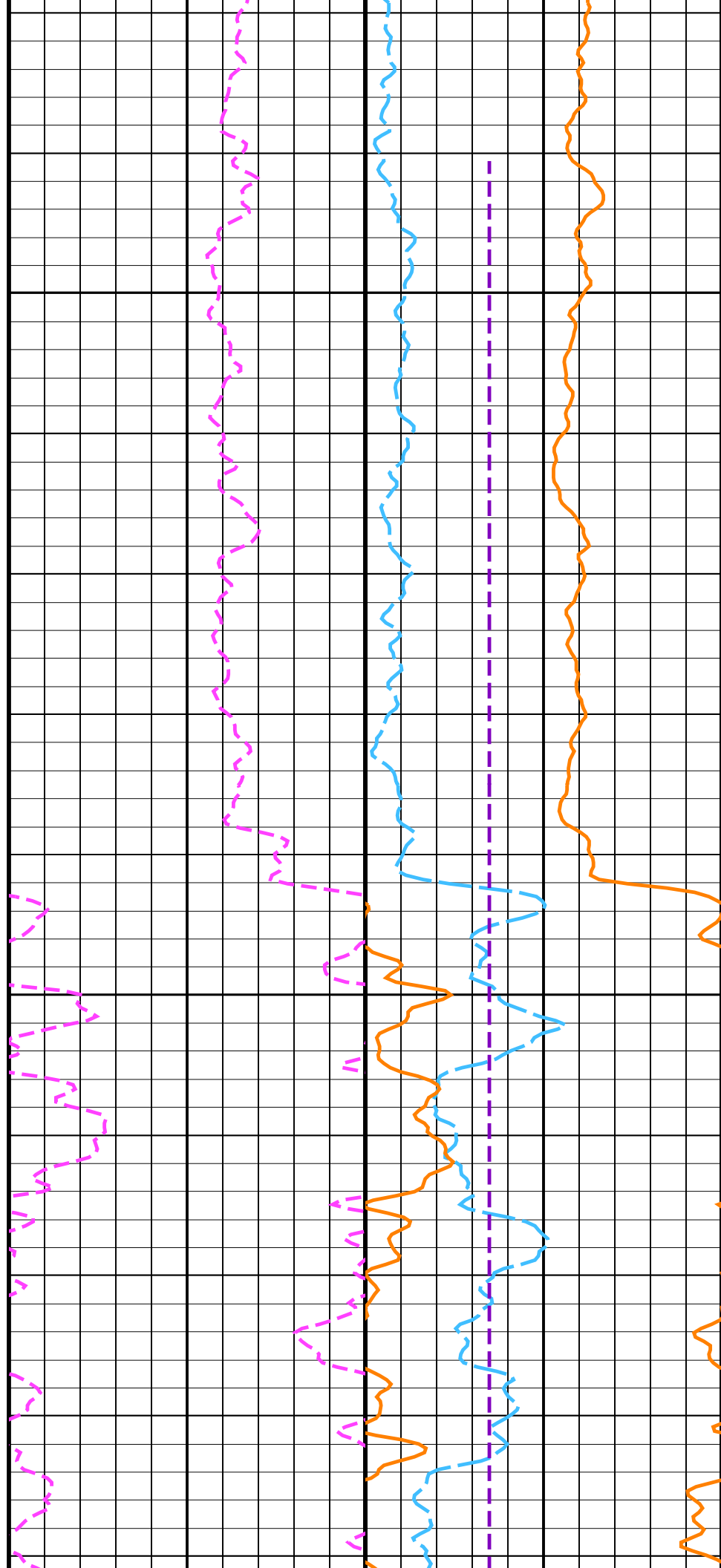
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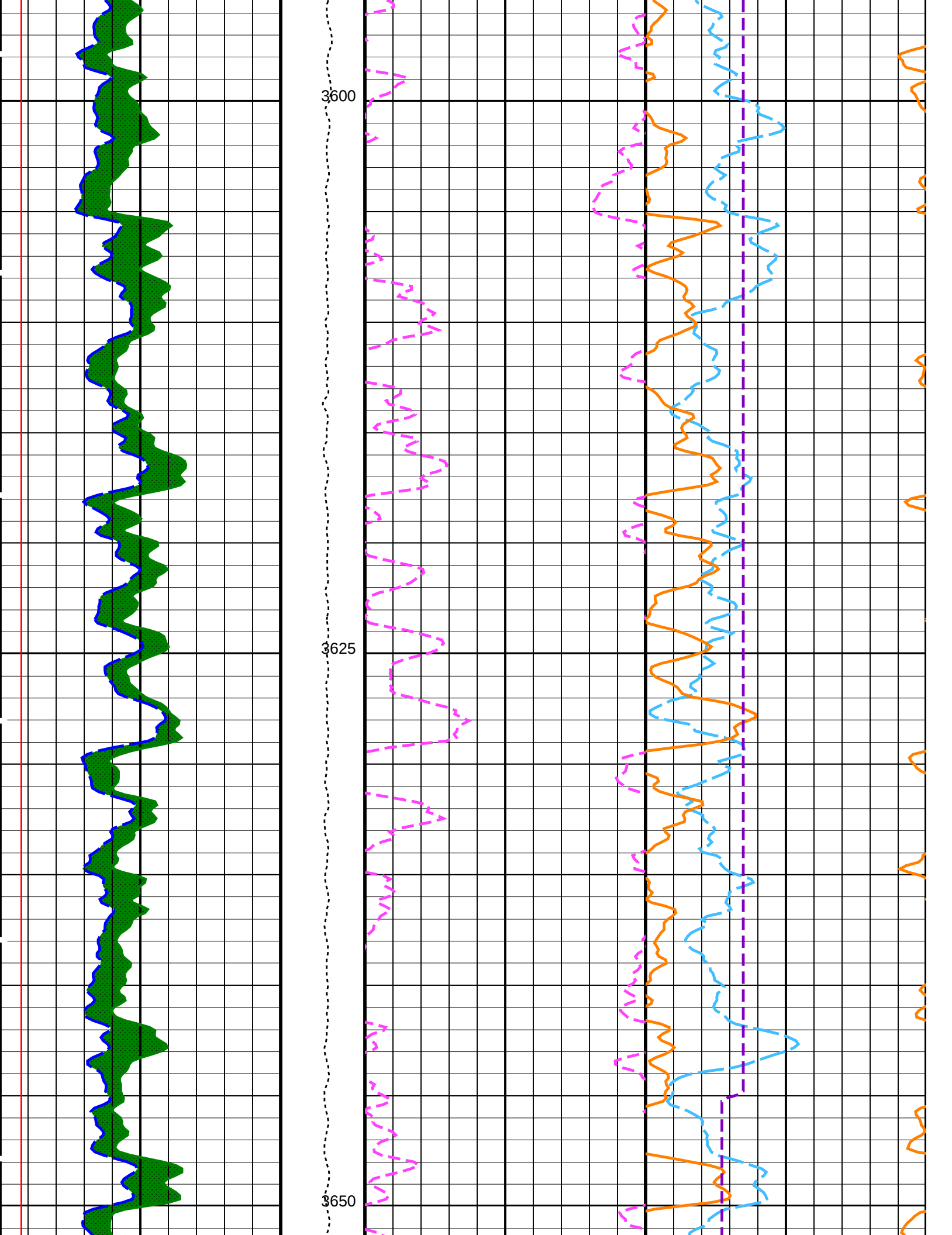


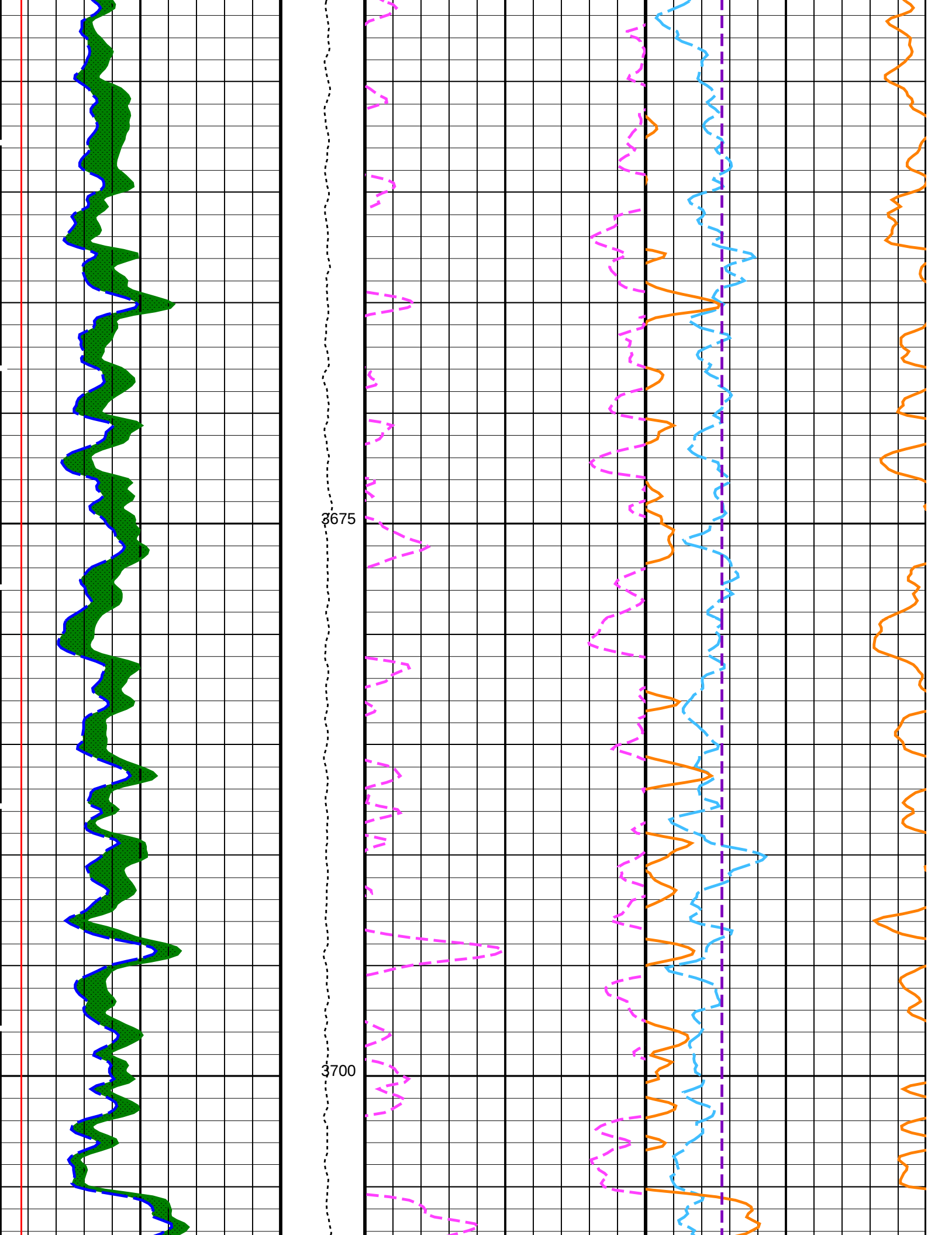


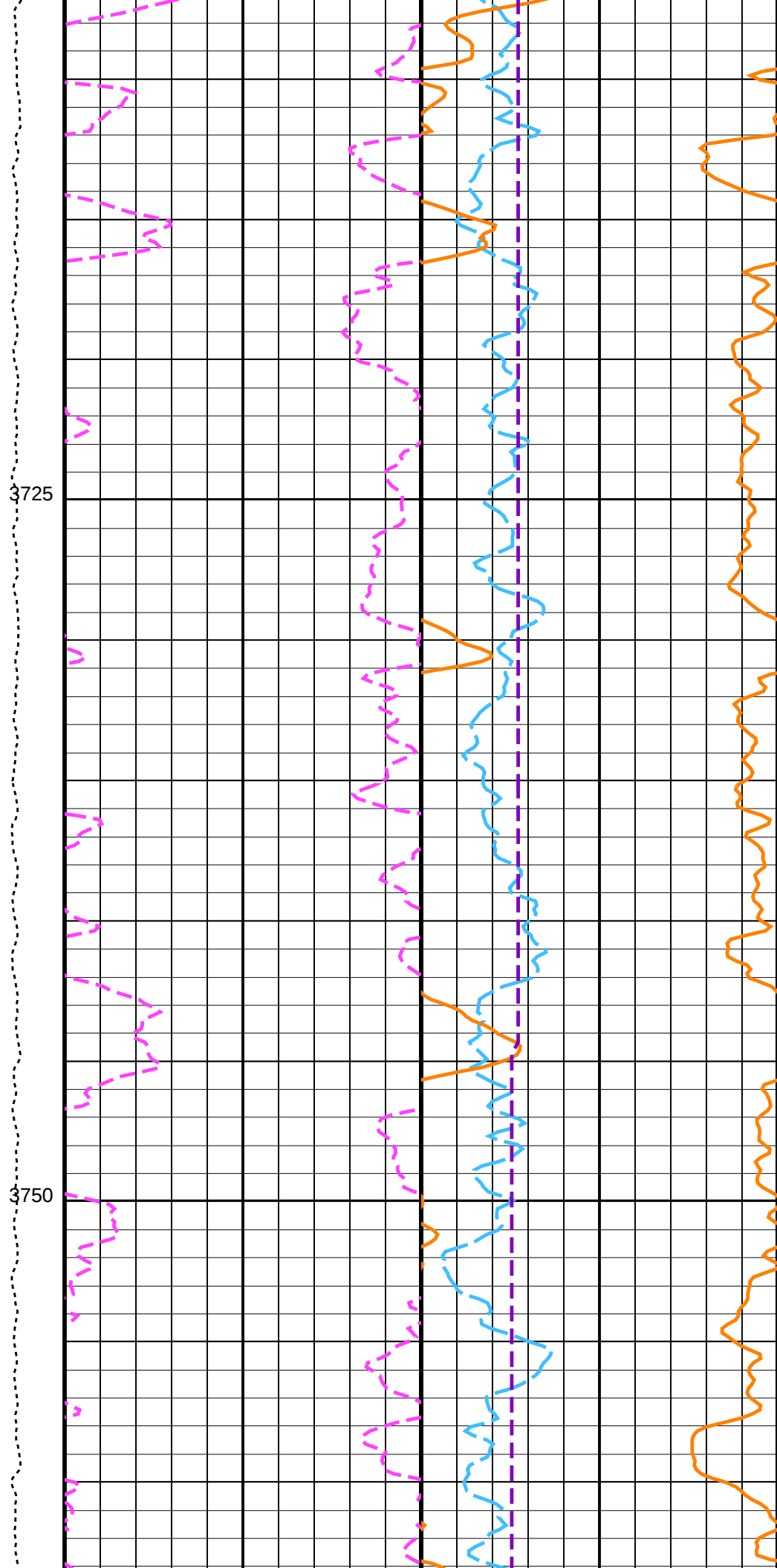
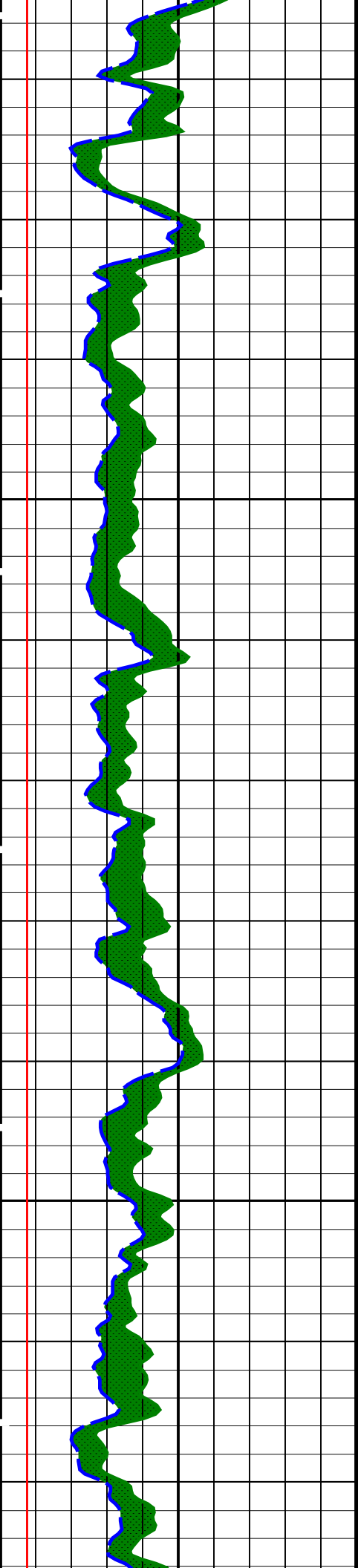
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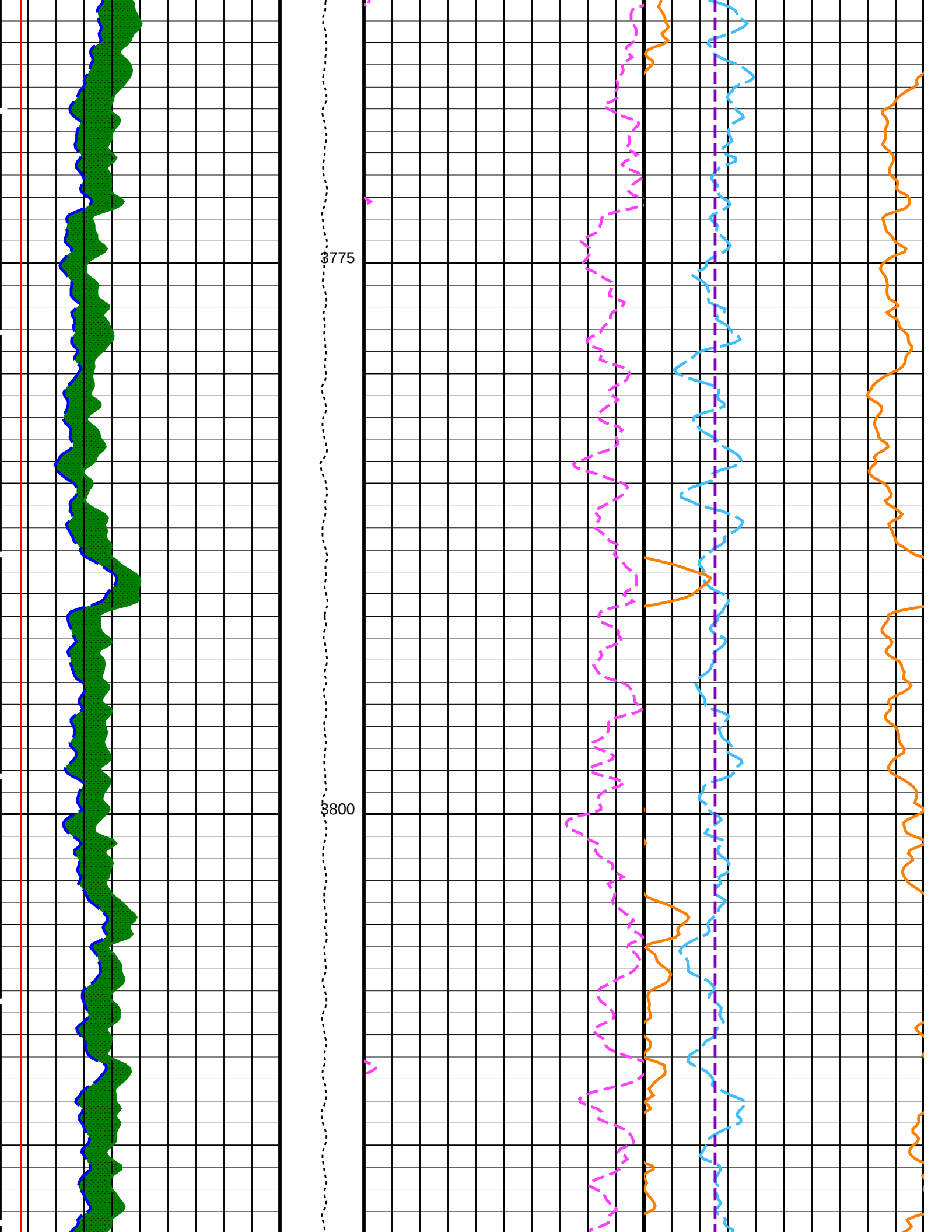
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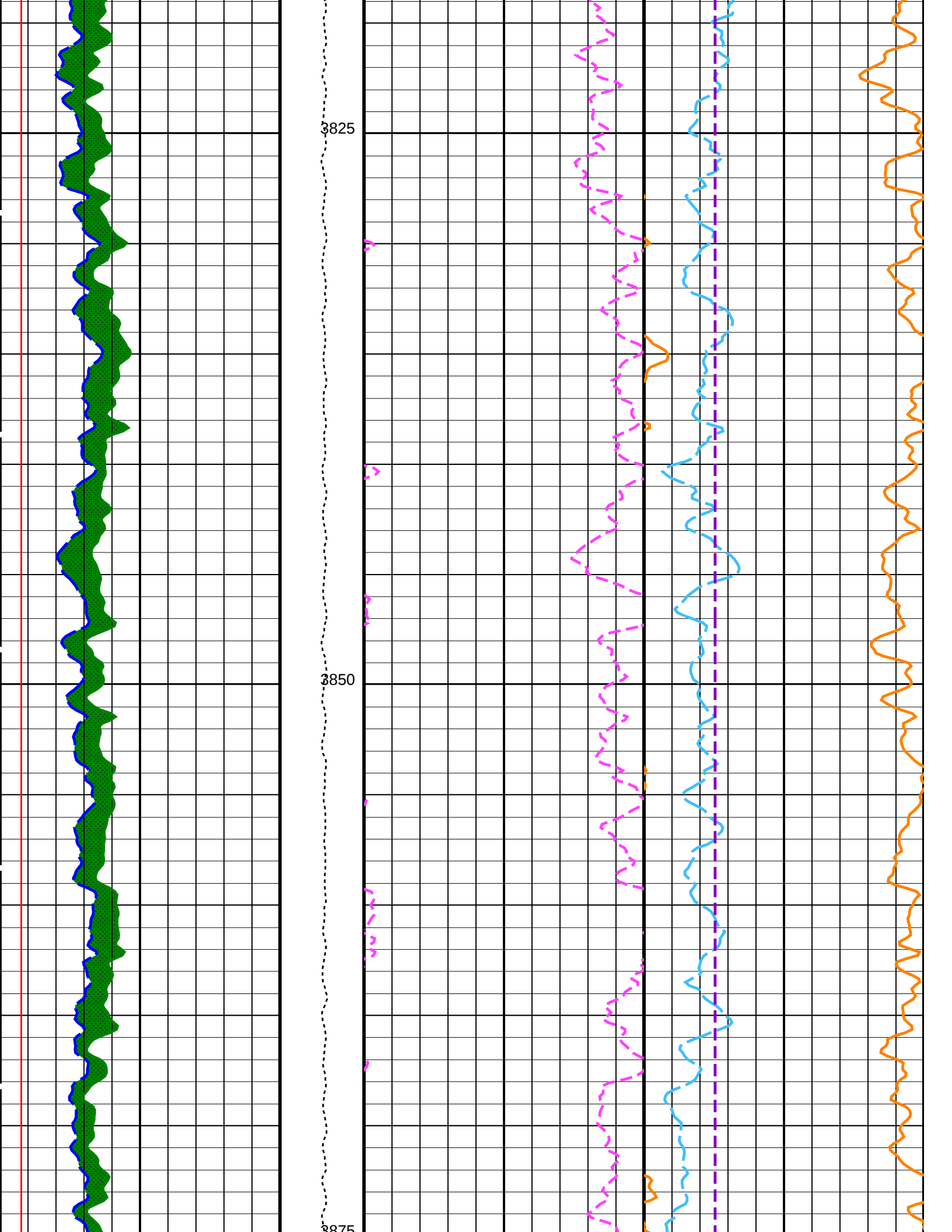


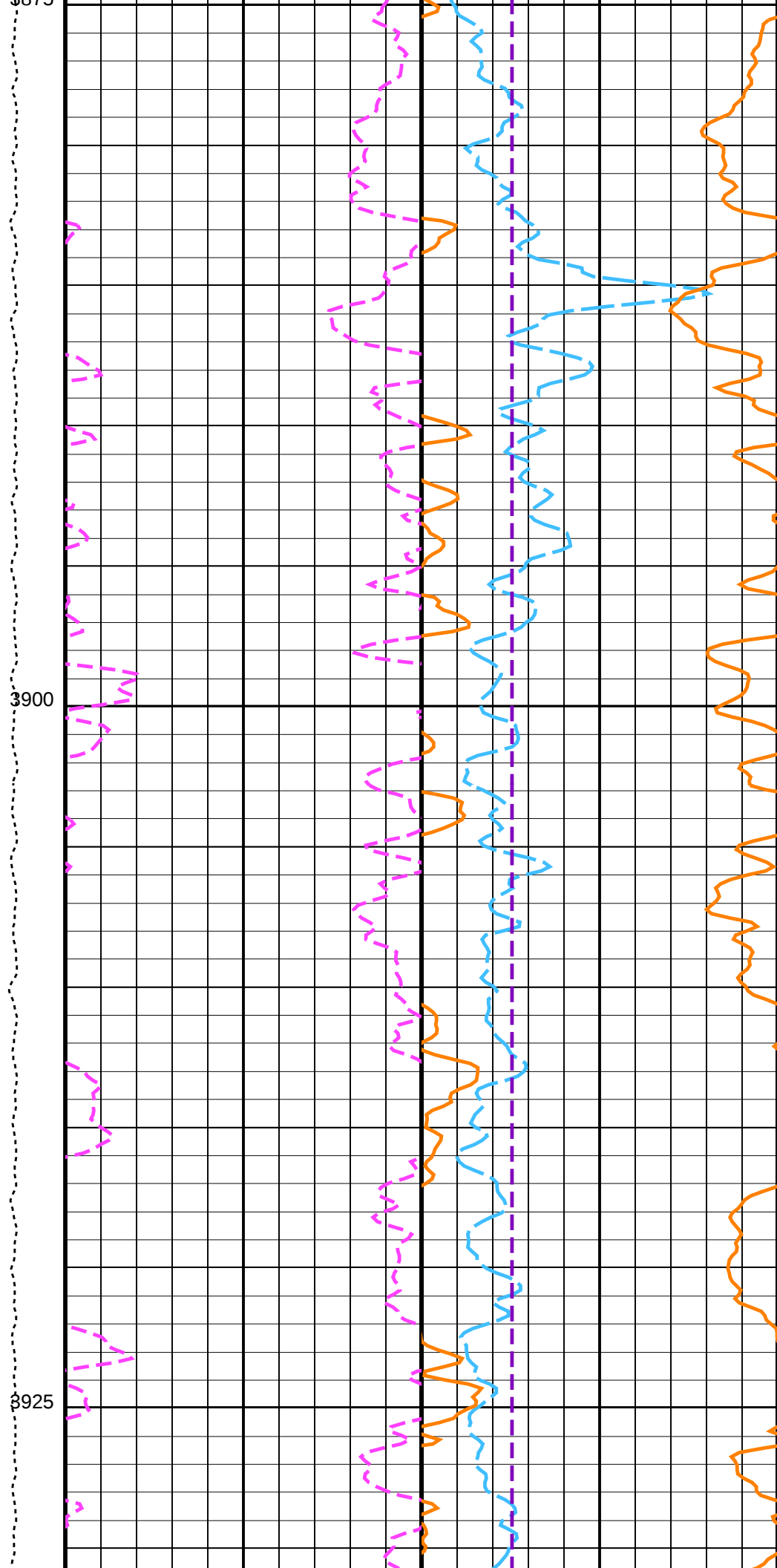
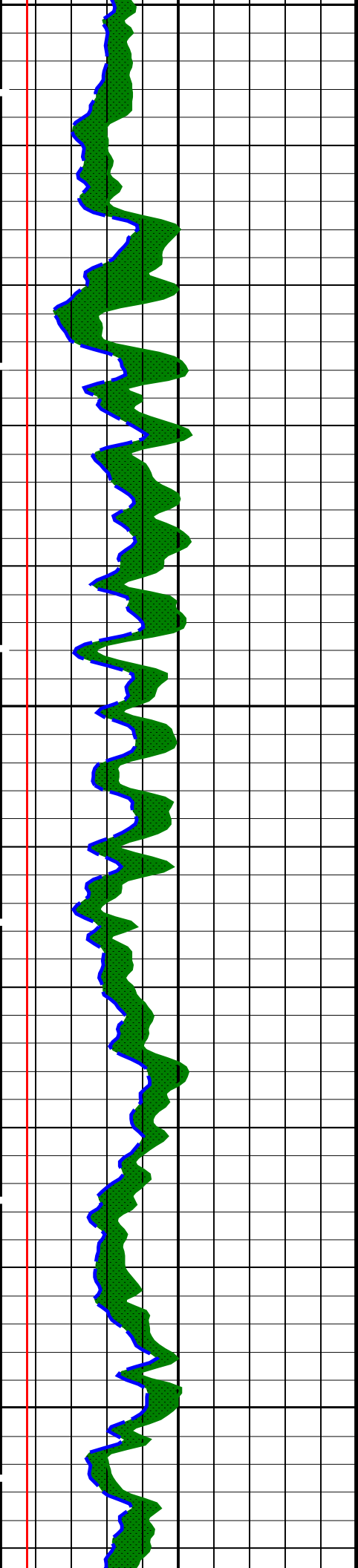


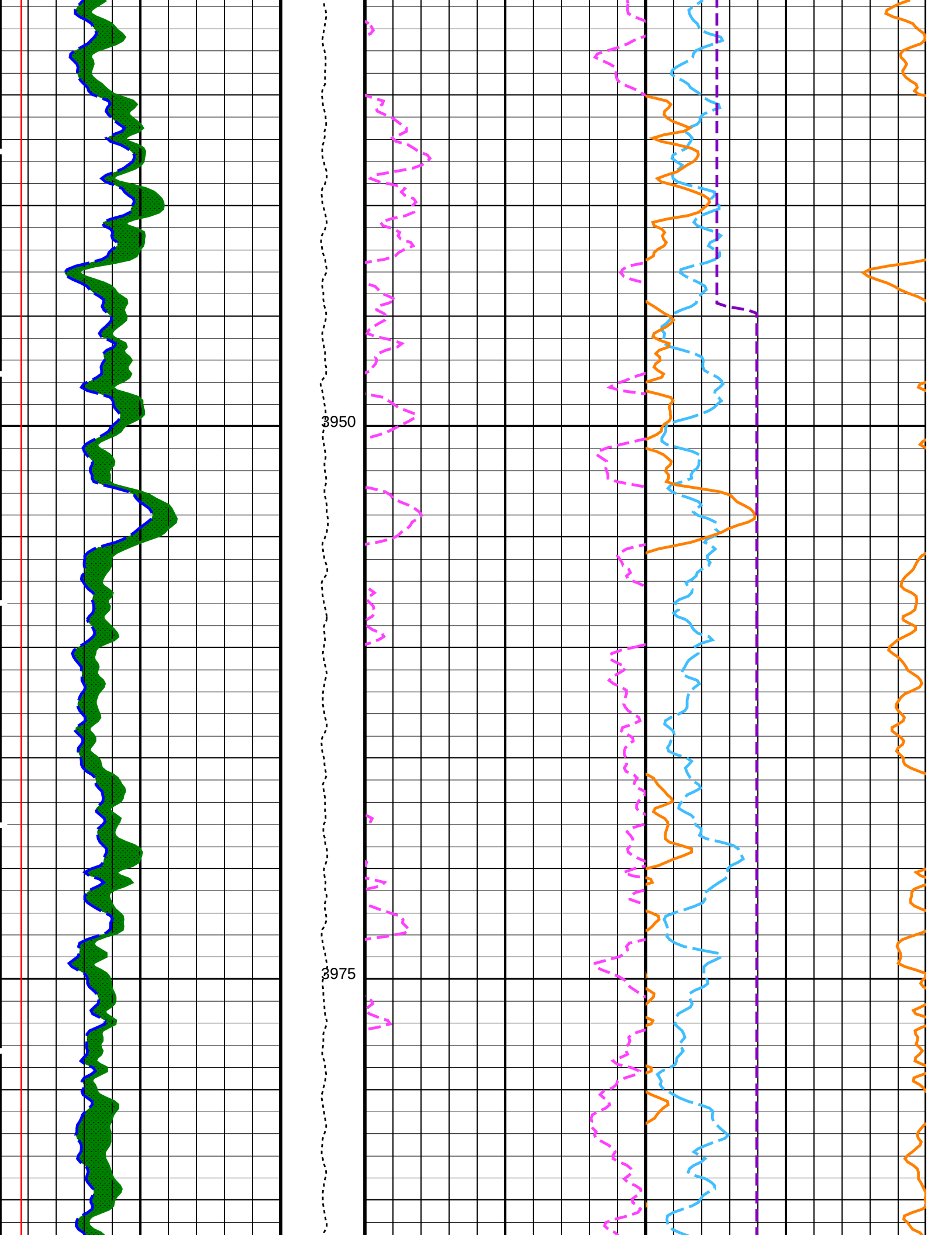


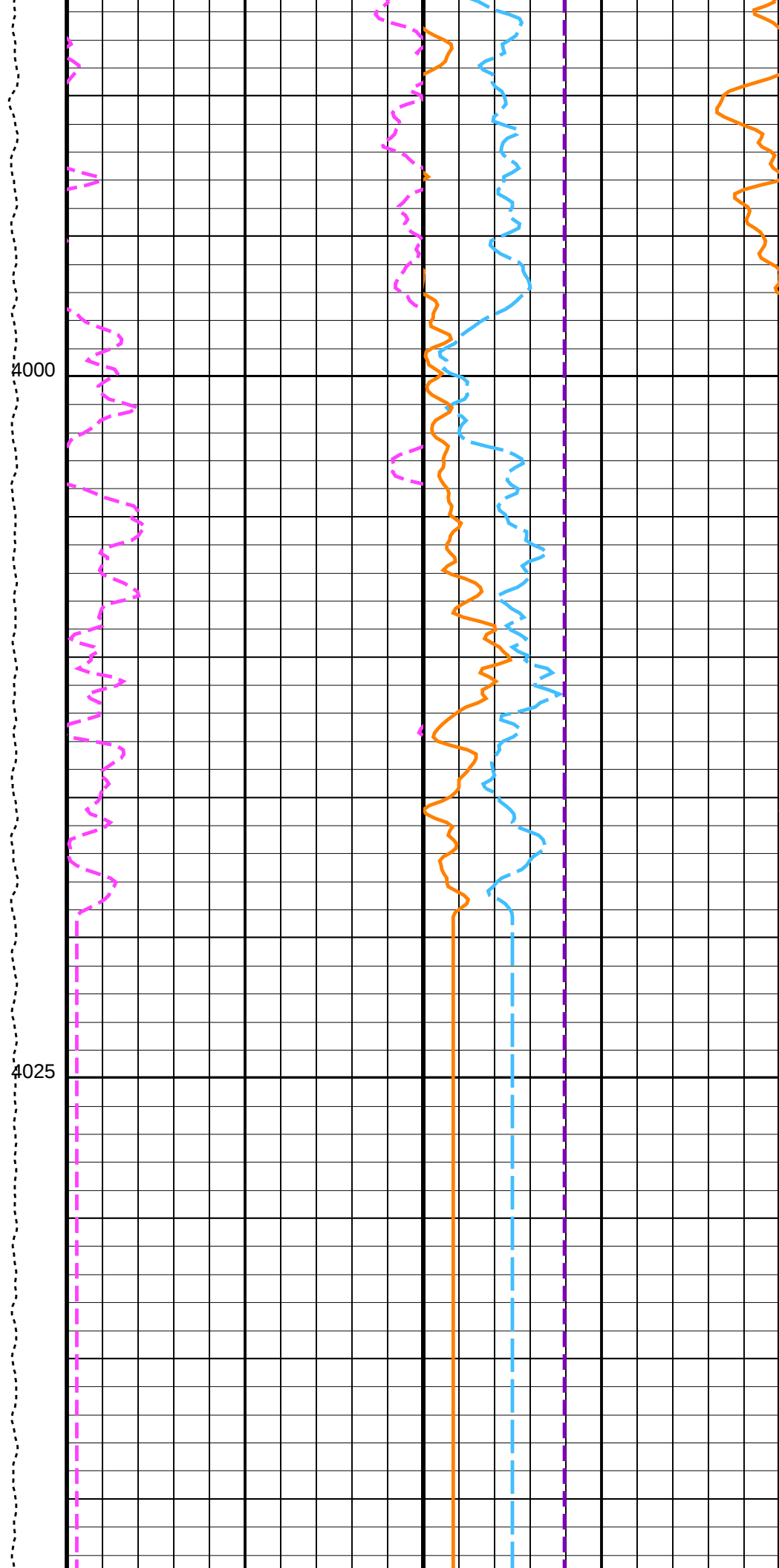
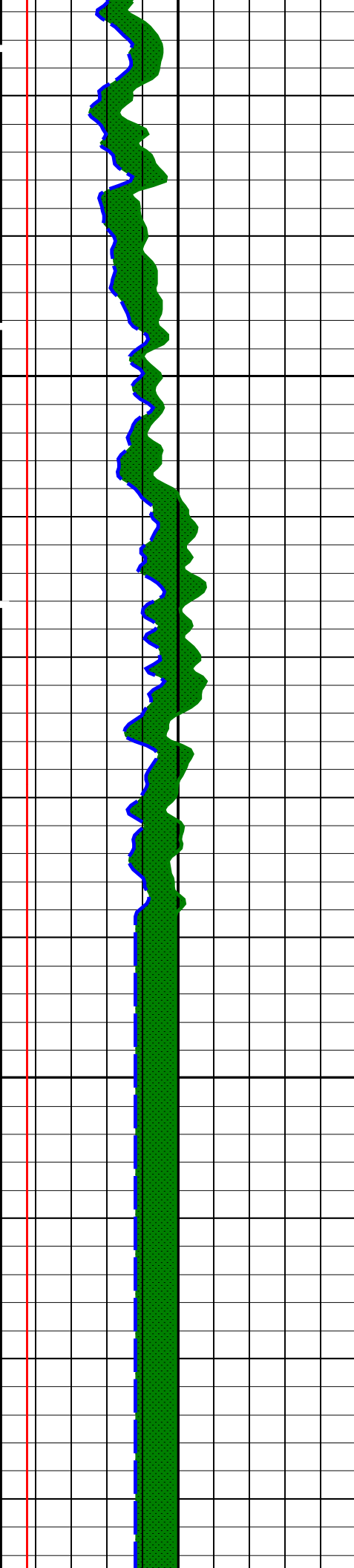


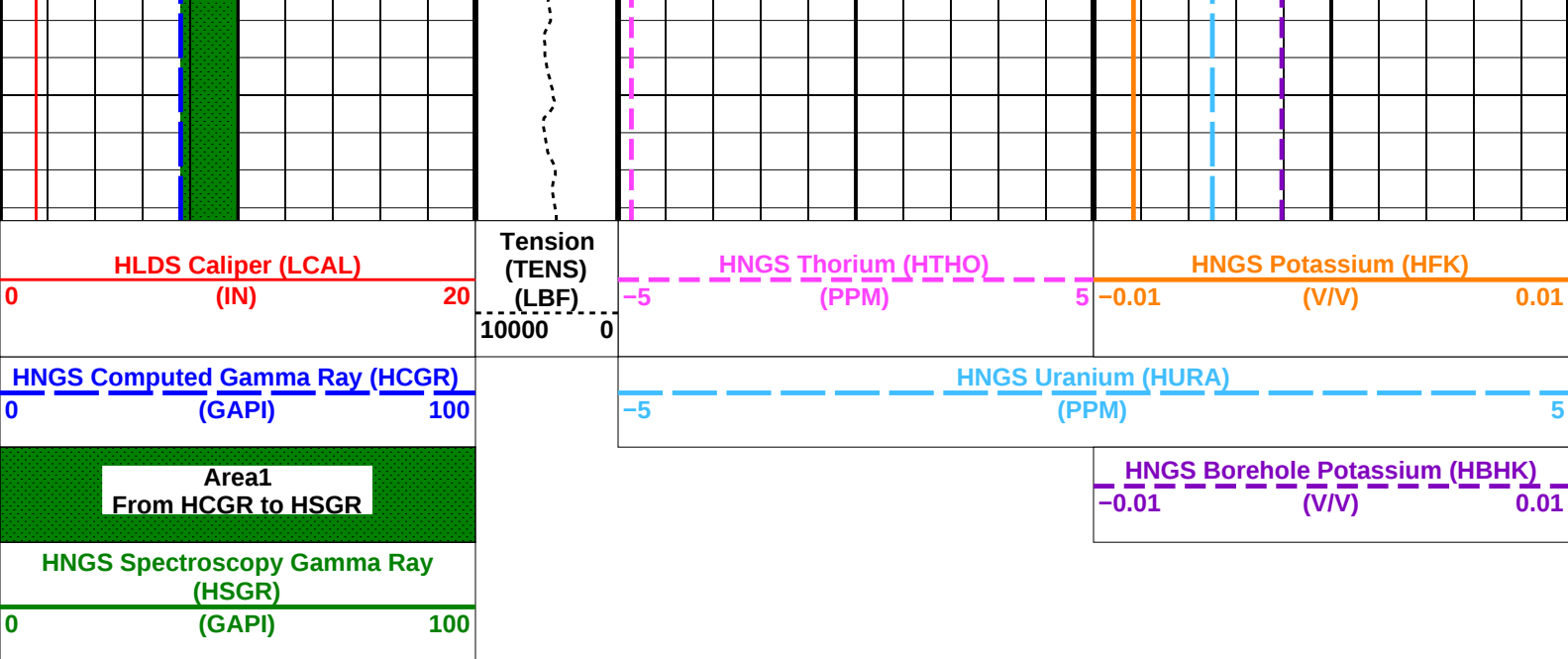












Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
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	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00469139	
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	1.01596	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01125	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 15-Nov-2022 05:19

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	SKK-5169-EDTCB		

Input DLIS Files

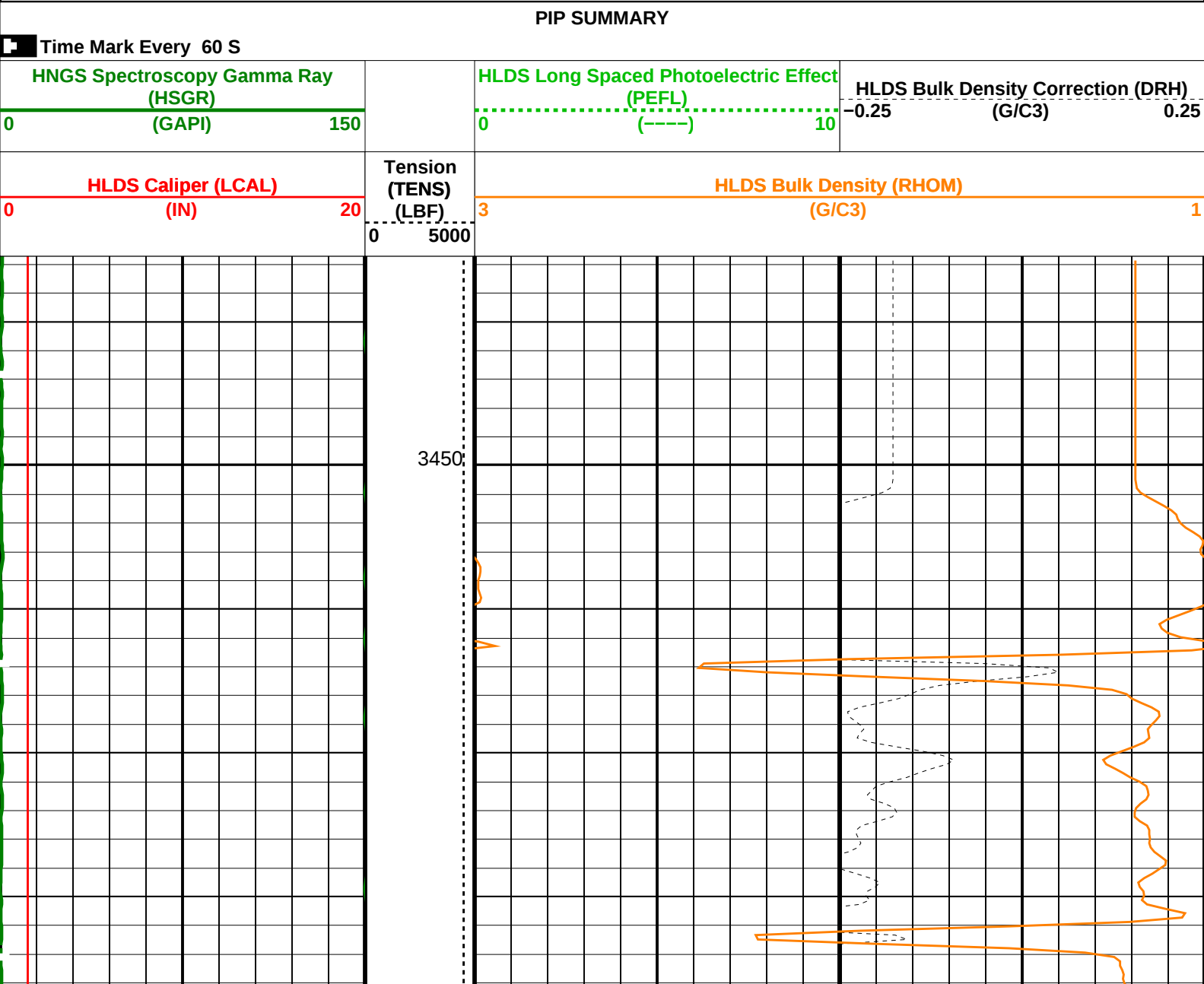
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Output DLIS Files					
DEFAULT	MSS_LDEO_HRLA_LDL_014PUP	FN:15	PRODUCER	15-Nov-2022 05:19	
RTB	MSS_LDEO_HRLA_LDL_014PUP	FN:16	PRODUCER	15-Nov-2022 05:19	

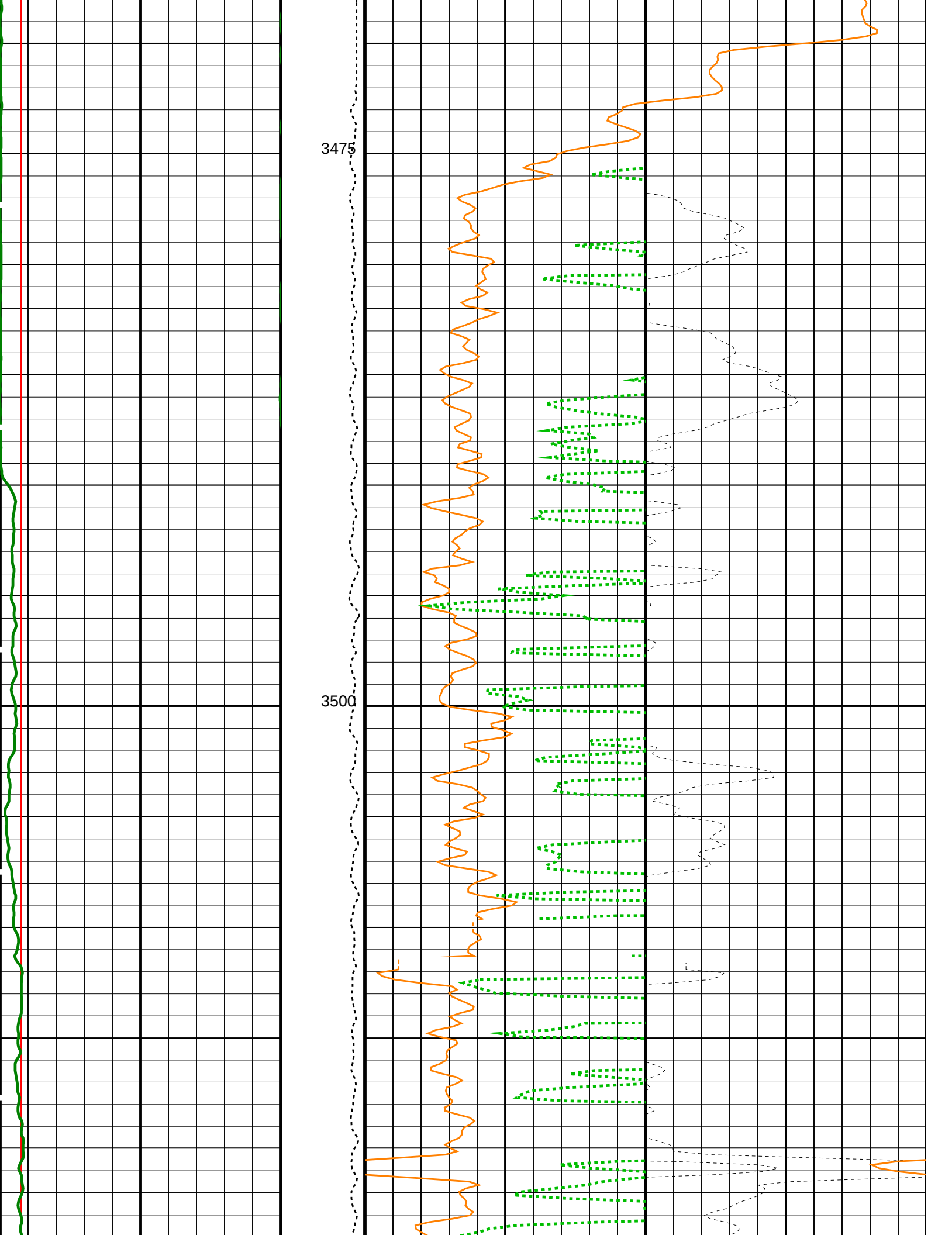
Company: International Ocean Discovery Program

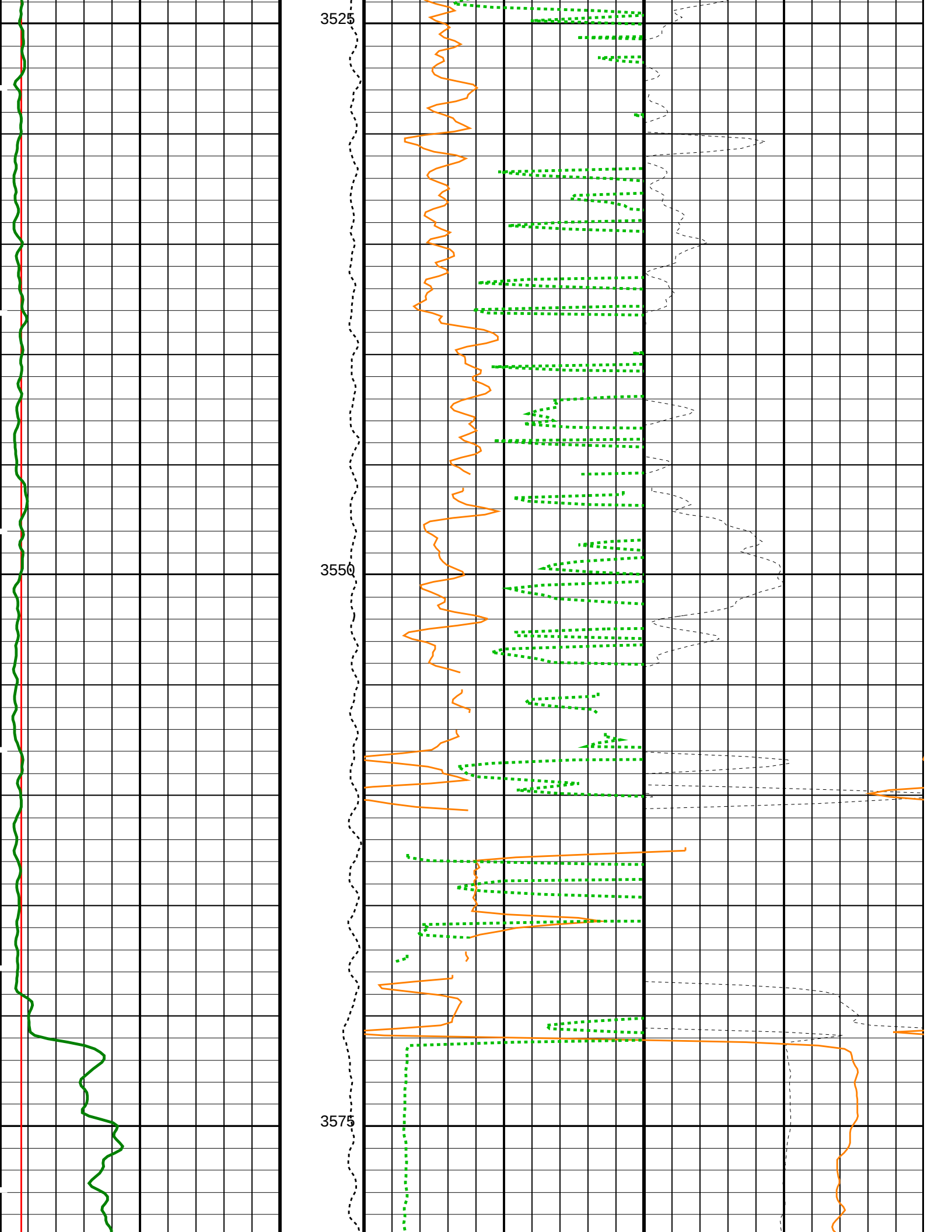
Well: Expedition 397, Site U1587C

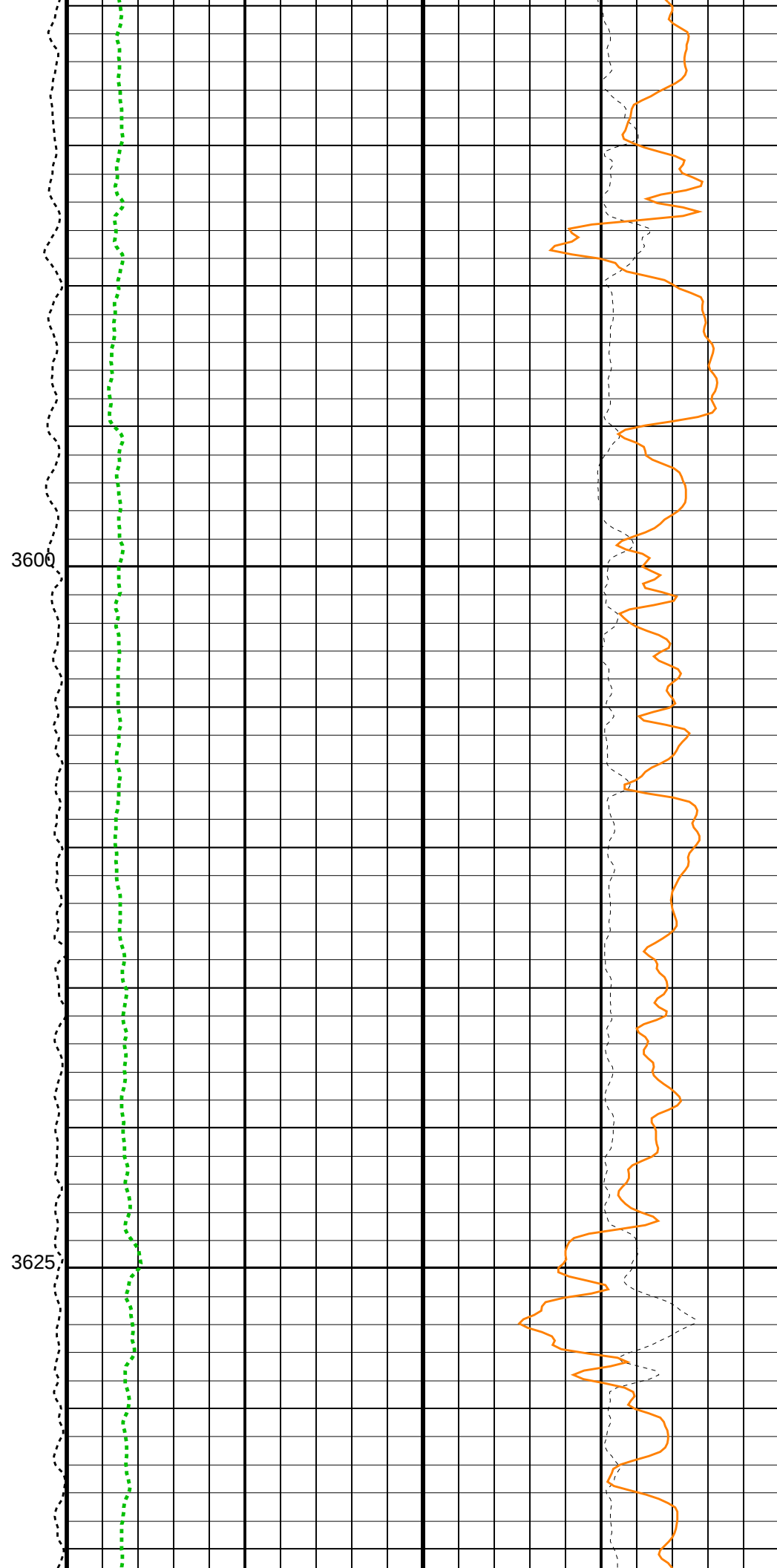
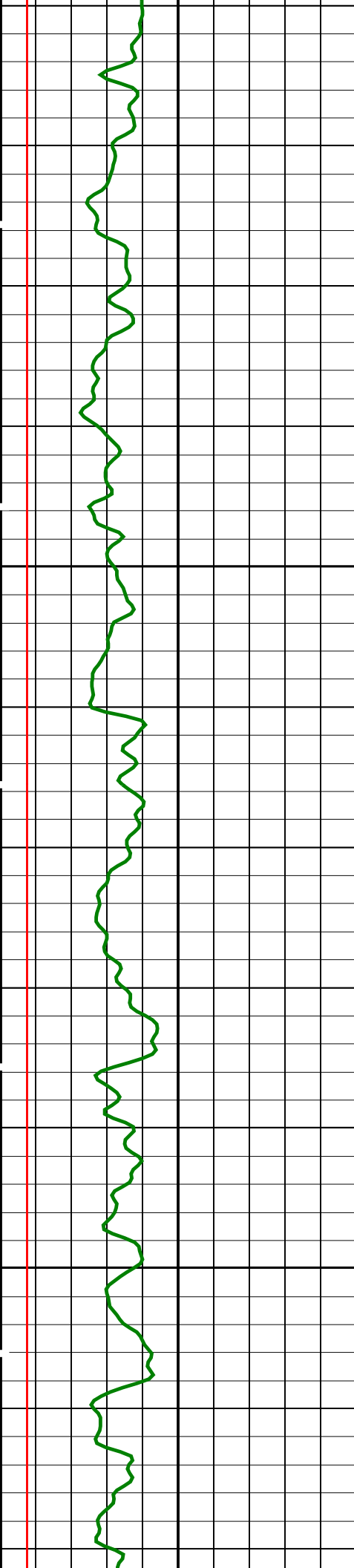
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Output DLIS Files					
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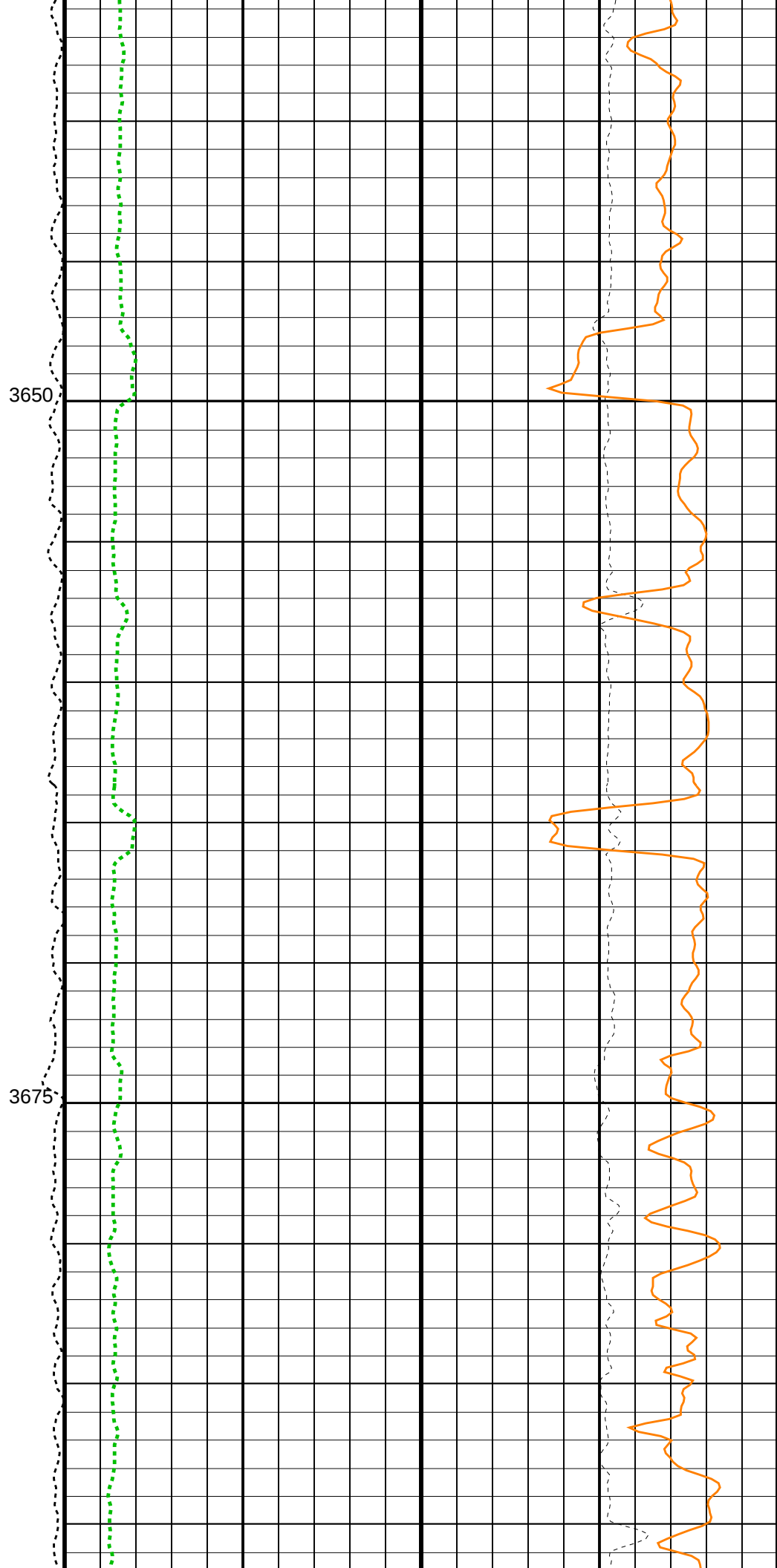
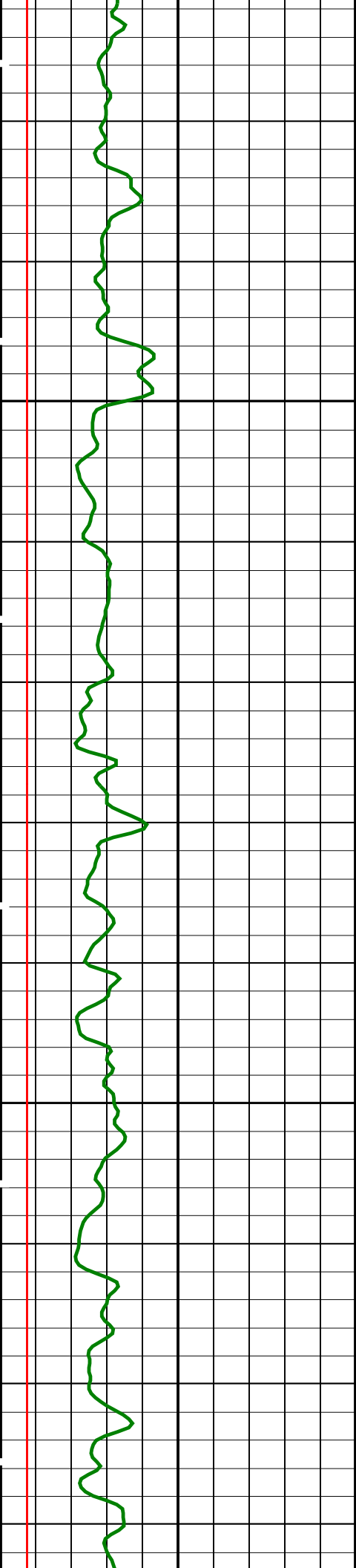
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MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

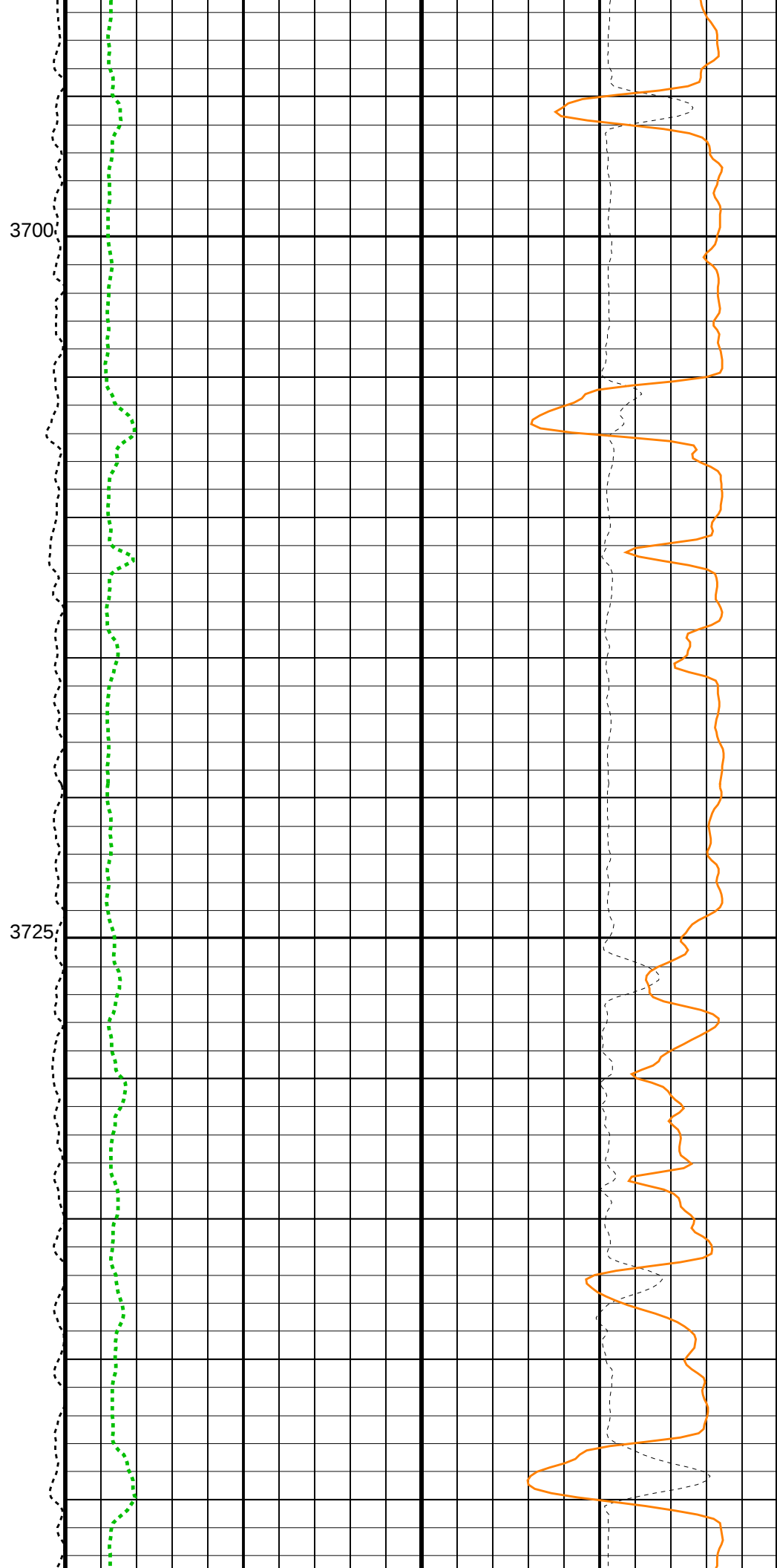
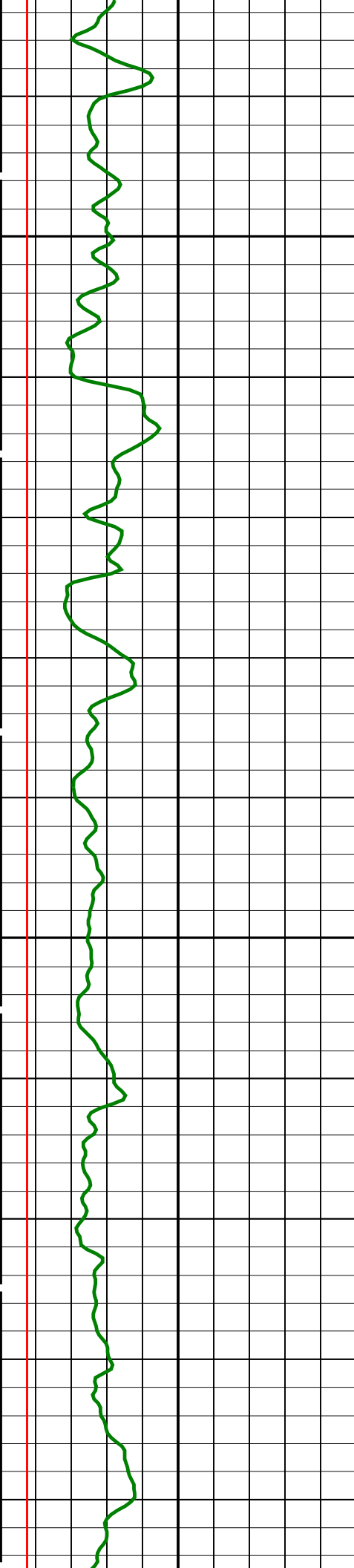


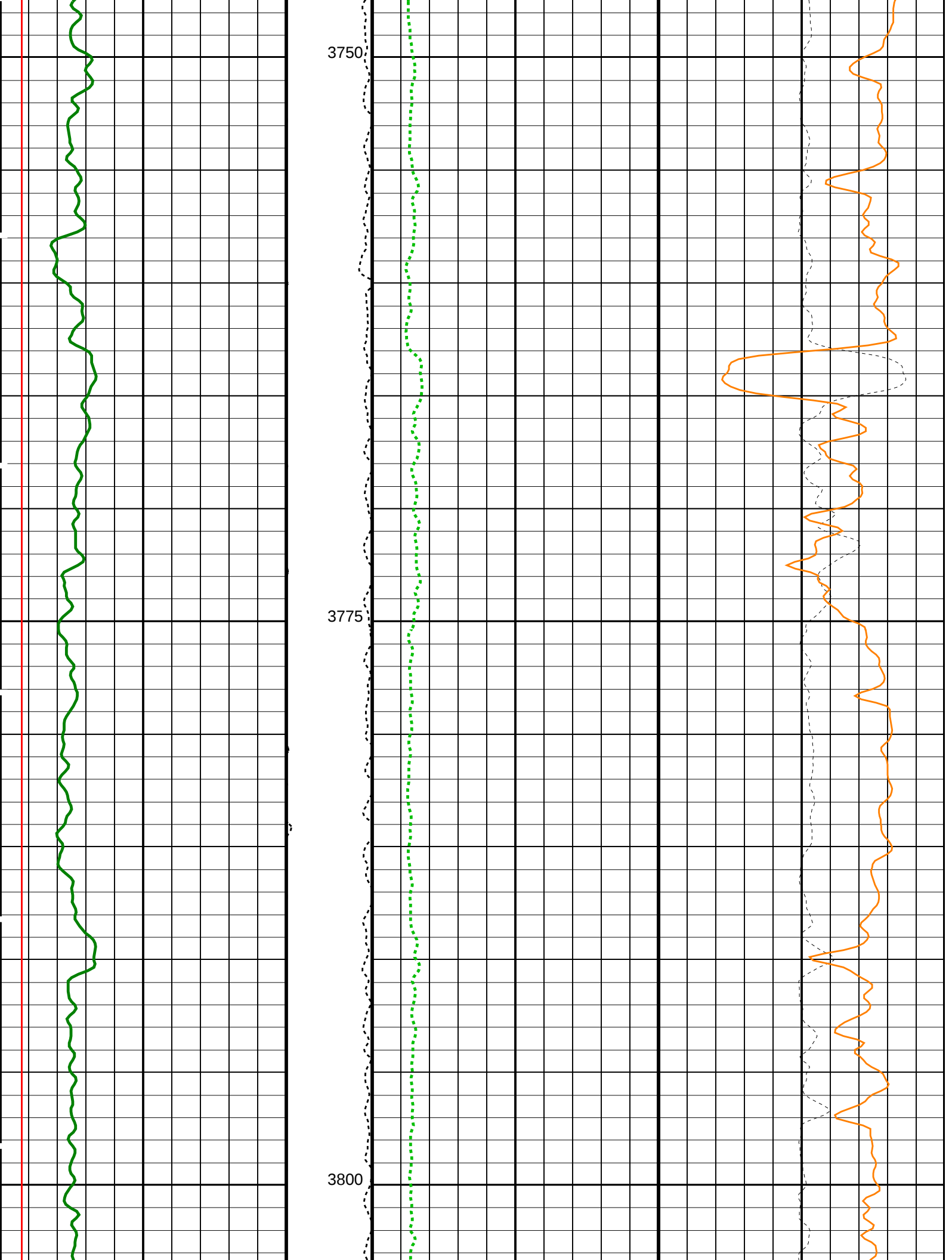


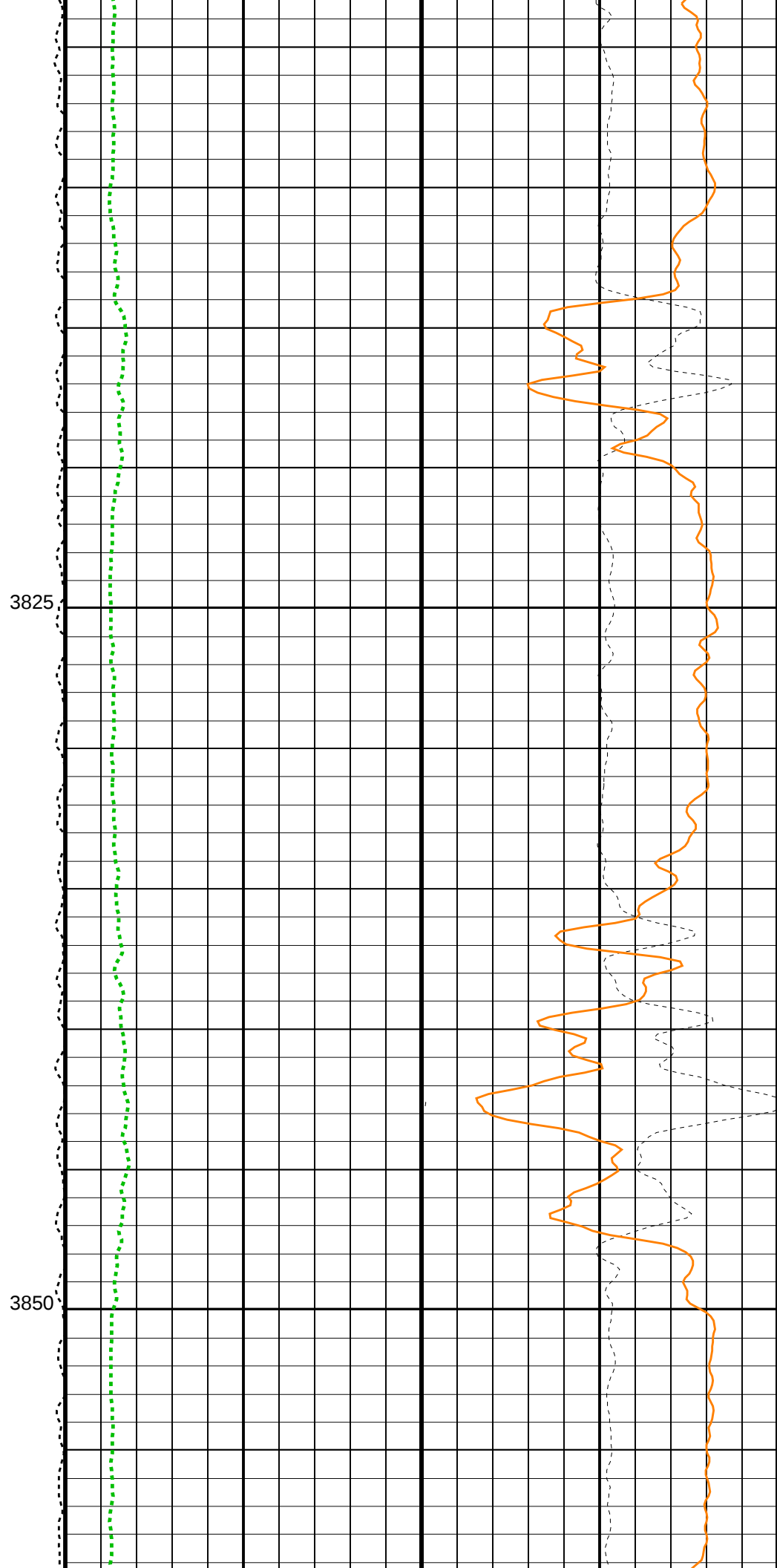
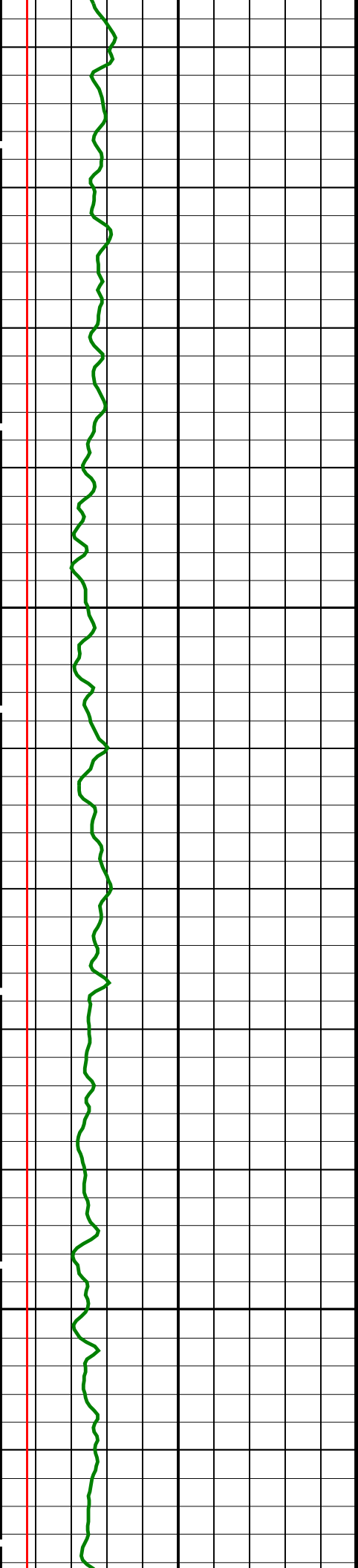


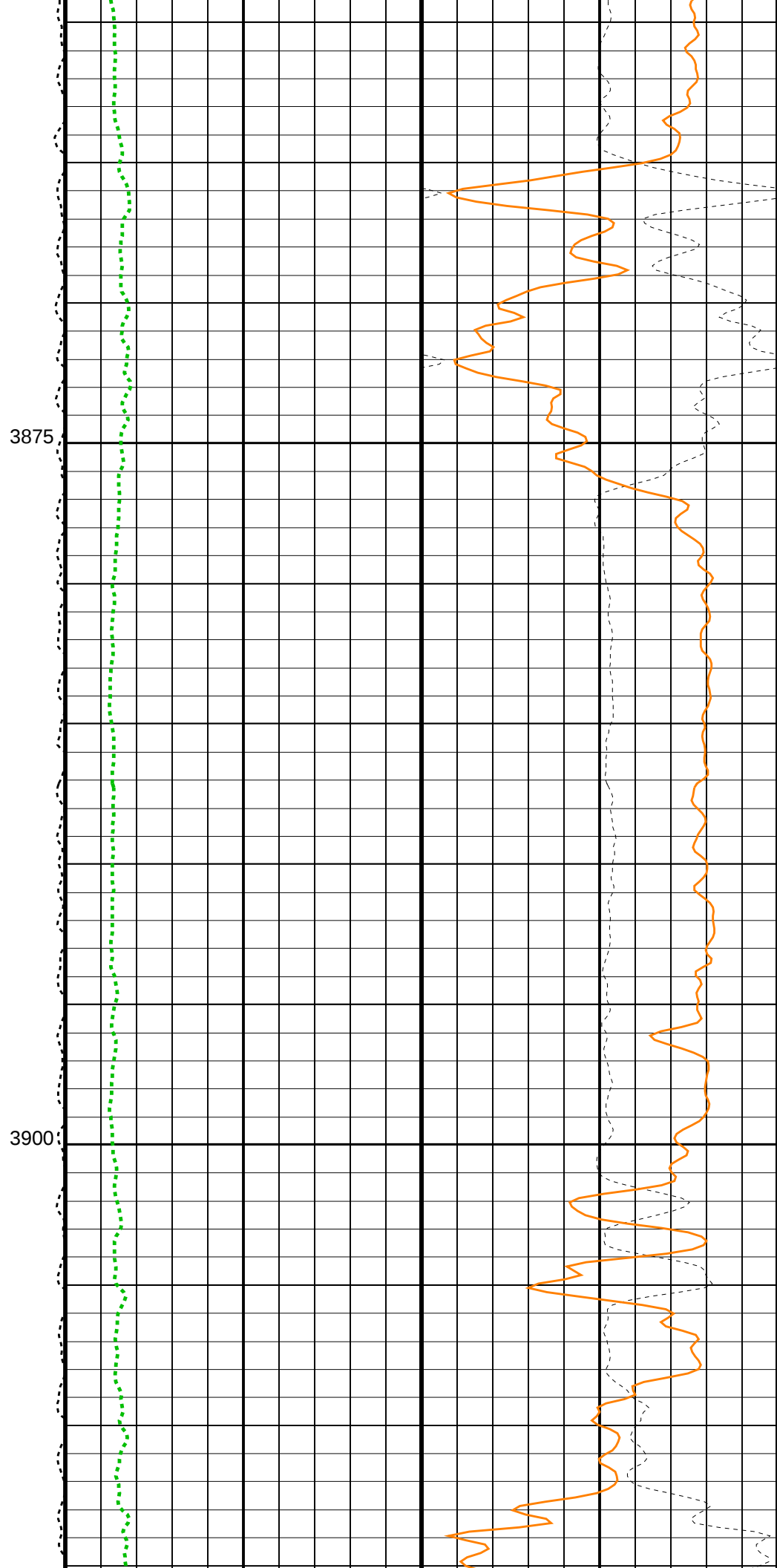
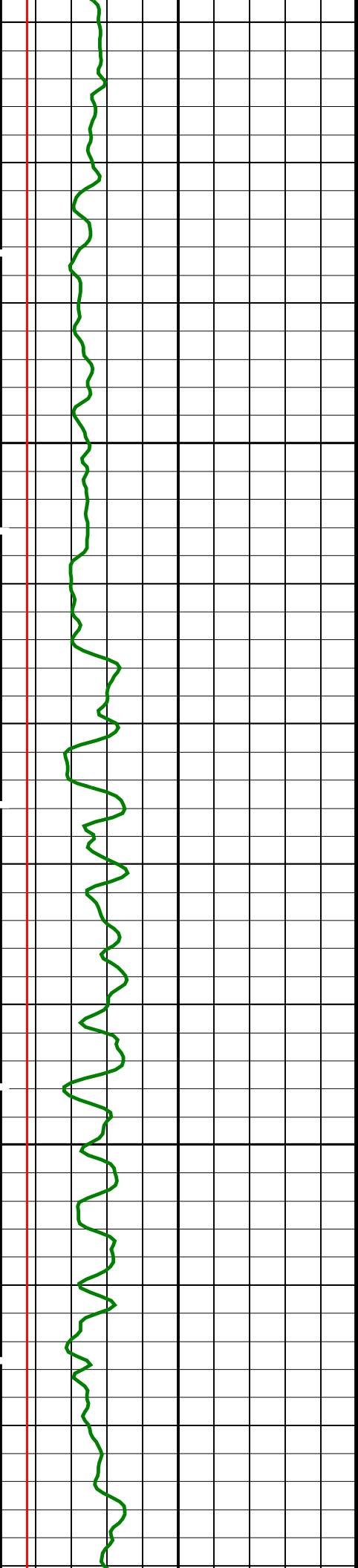


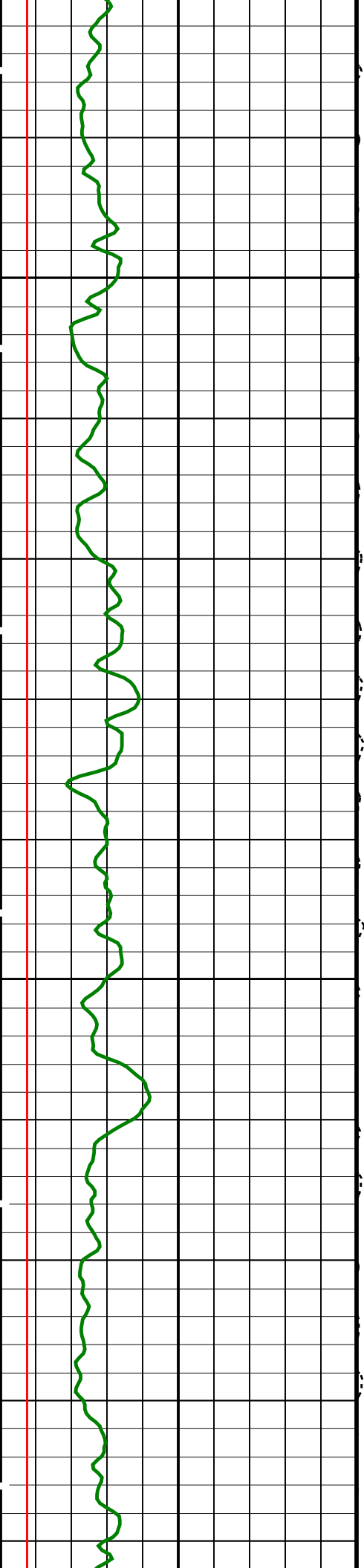






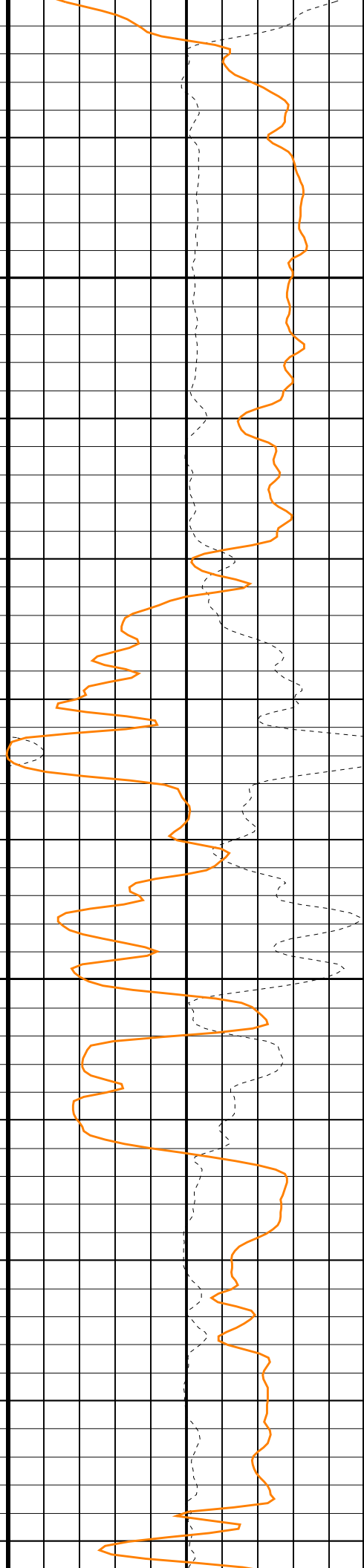
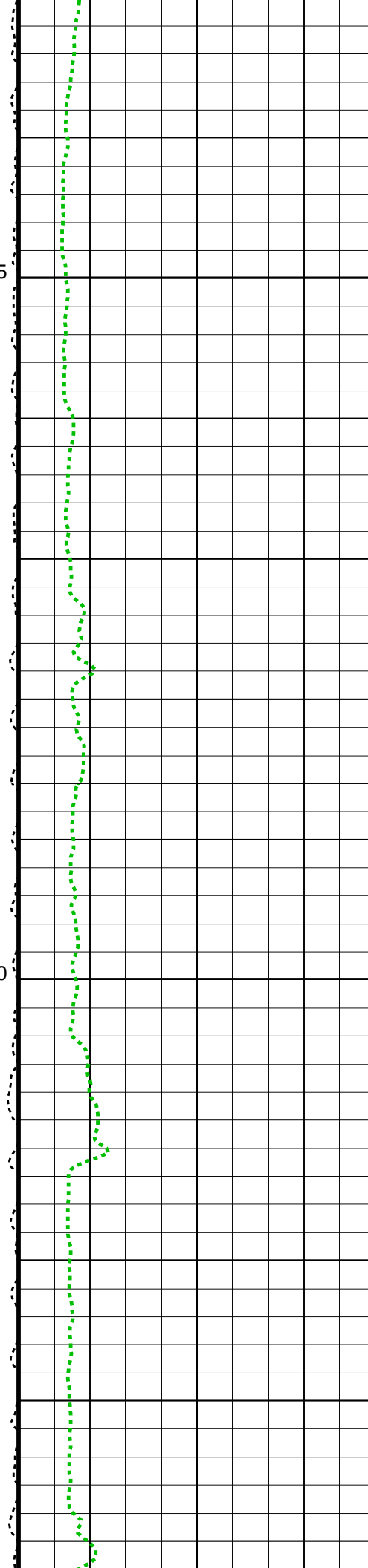


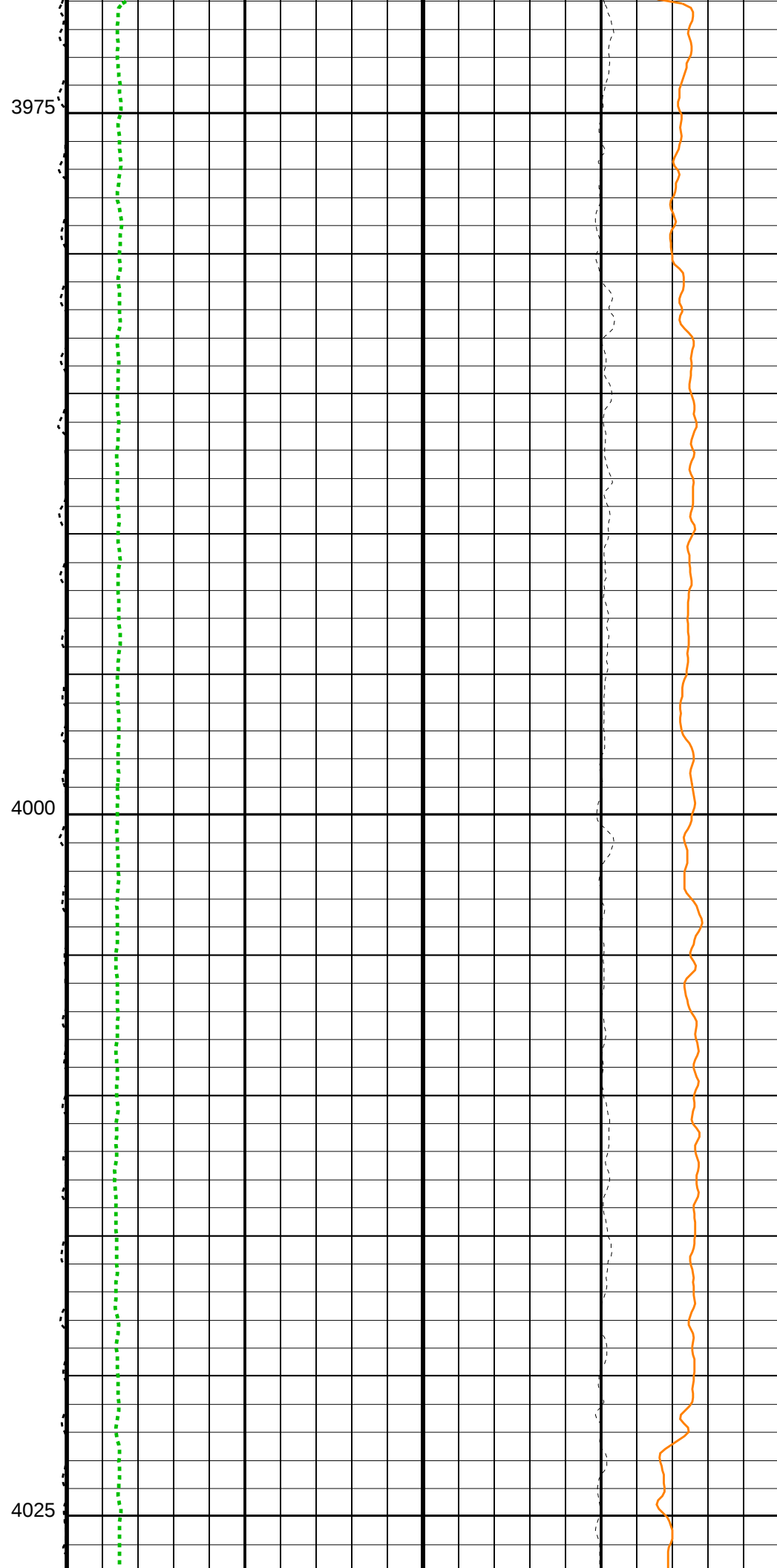
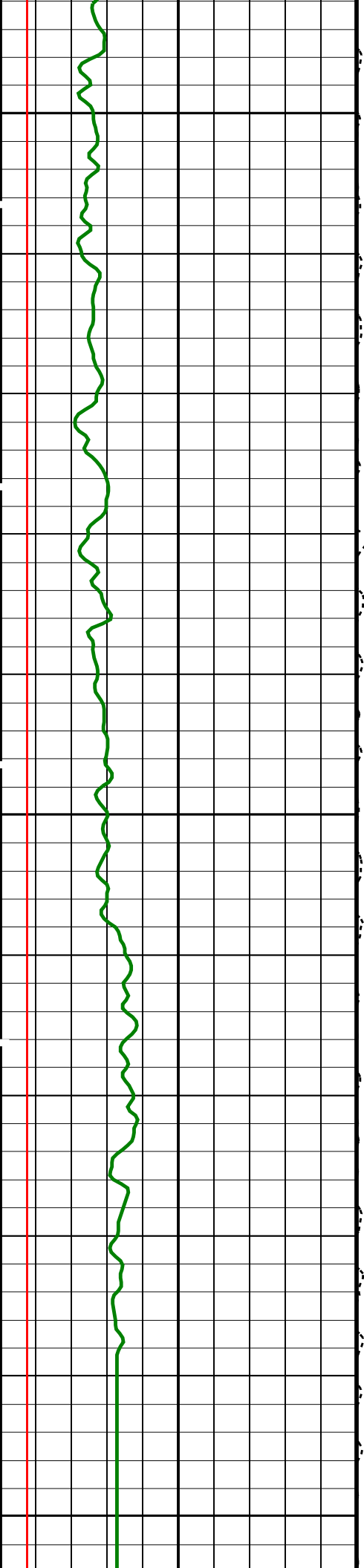


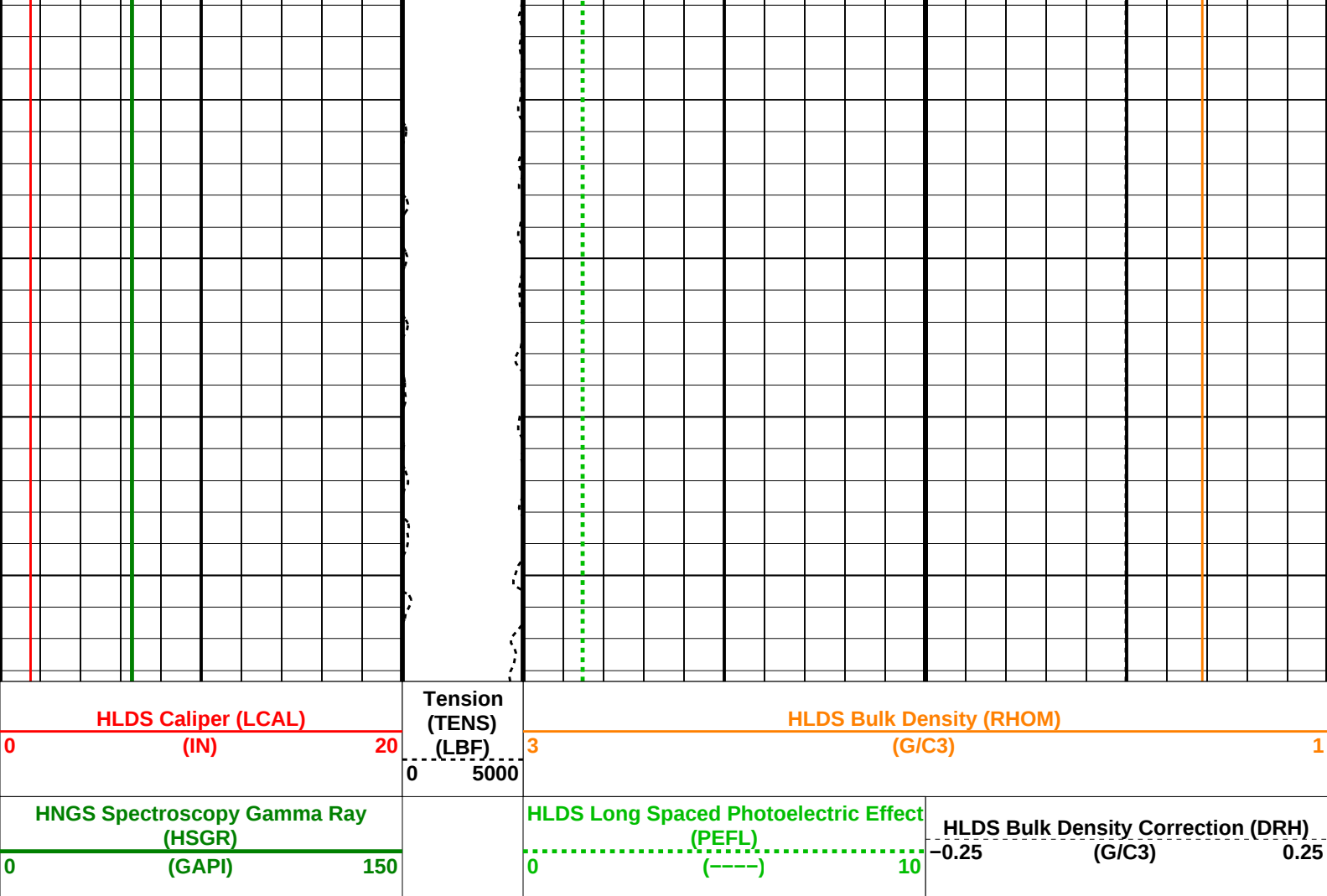


3925

3950







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	BS	
HLDS: Hostile Litho-Density Sonde			
DHC	Density Hole Correction	CALIPER	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
MDEN	Matrix Density	2.6	G/C3
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	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00469139	
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	1.01596	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01125	

EDTC-B: Enhanced DTS Cartridge		Borehole Status		OPEN	
BHS		Density Porosity Processing Mode		HIRS	
DPPM		Generalized Caliper Selection		BS	
GCSE		System and Miscellaneous			
BS		Bit Size		9.875	IN
DFD		Drilling Fluid Density		1.05	G/C3
DO		Depth Offset for Playback		0.0	M
PP		Playback Processing		NORMAL	

Format: HLDSDensityPE	Vertical Scale: 1:200	Graphics File Created: 15-Nov-2022 05:19
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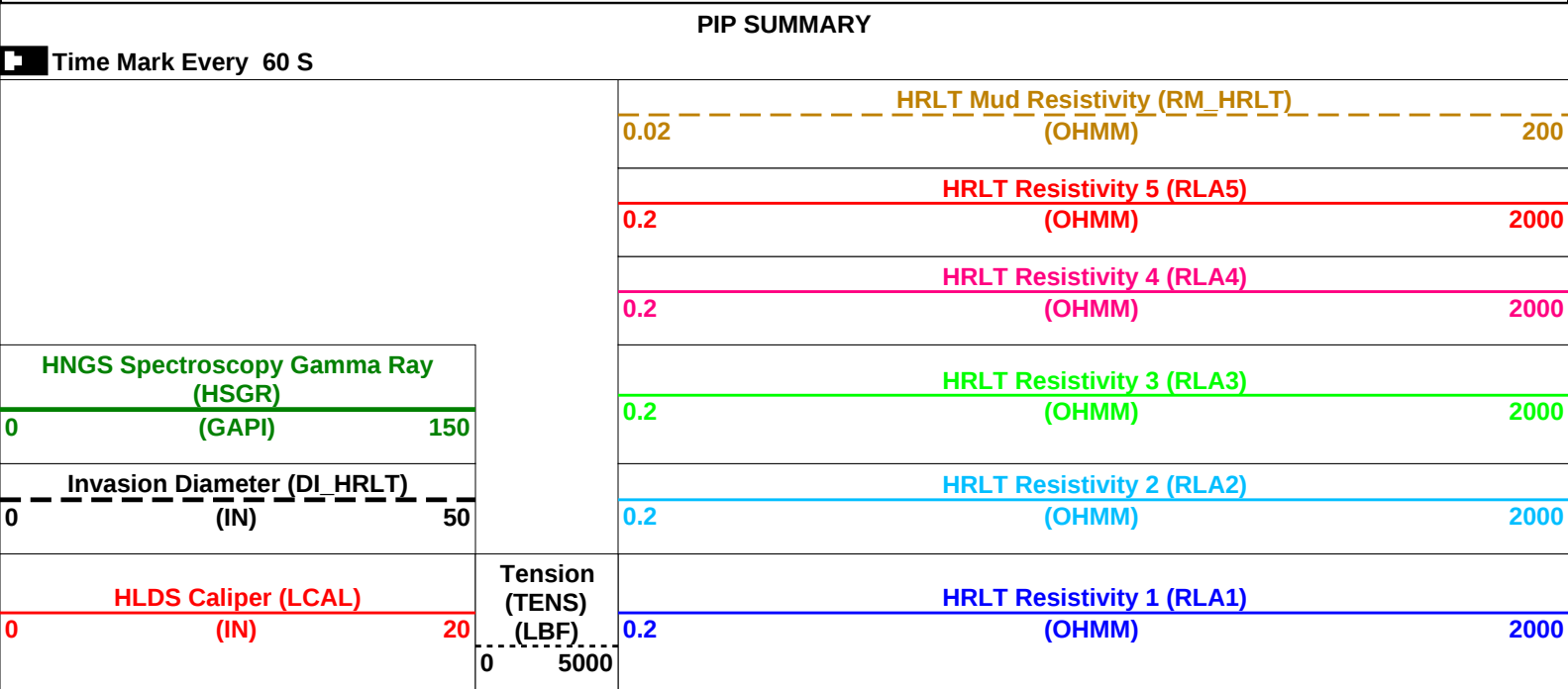
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HNGC-B	19C0-187	HNGS-BA	19C0-187		
EDTC-B	SKK-5169-EDTCB				

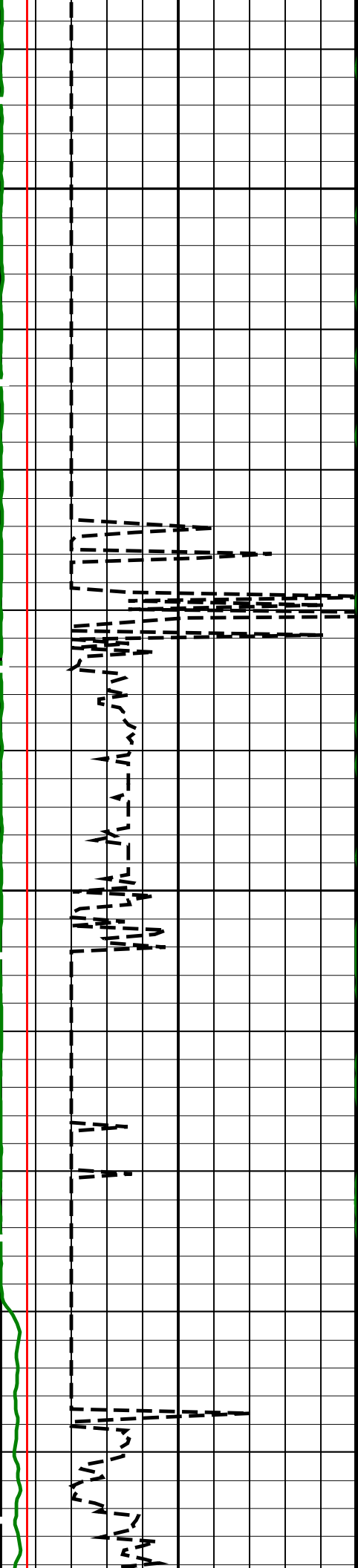
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Company: International Ocean Discovery Program	Well: Expedition 397, Site U1587C
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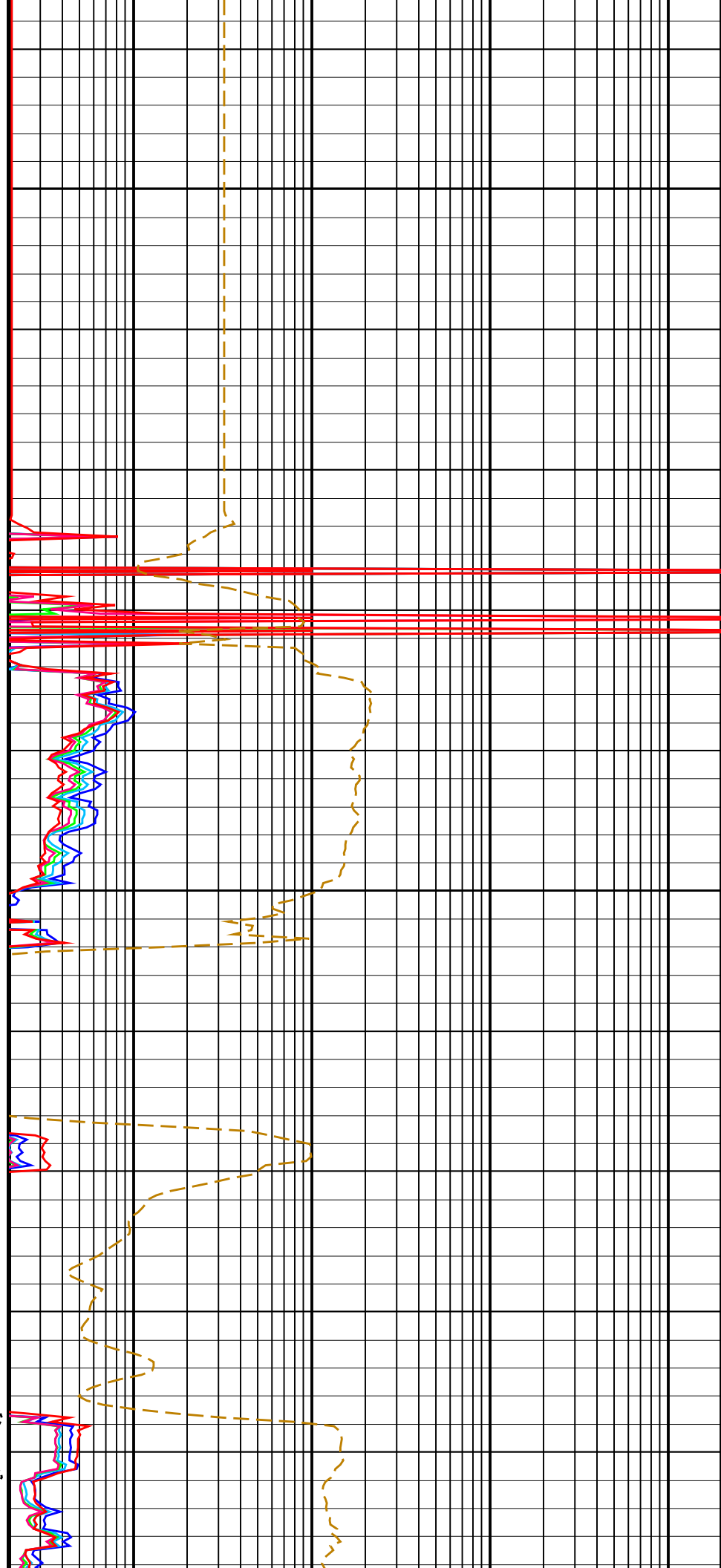
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EDTC-B	SKK-5169-EDTCB				

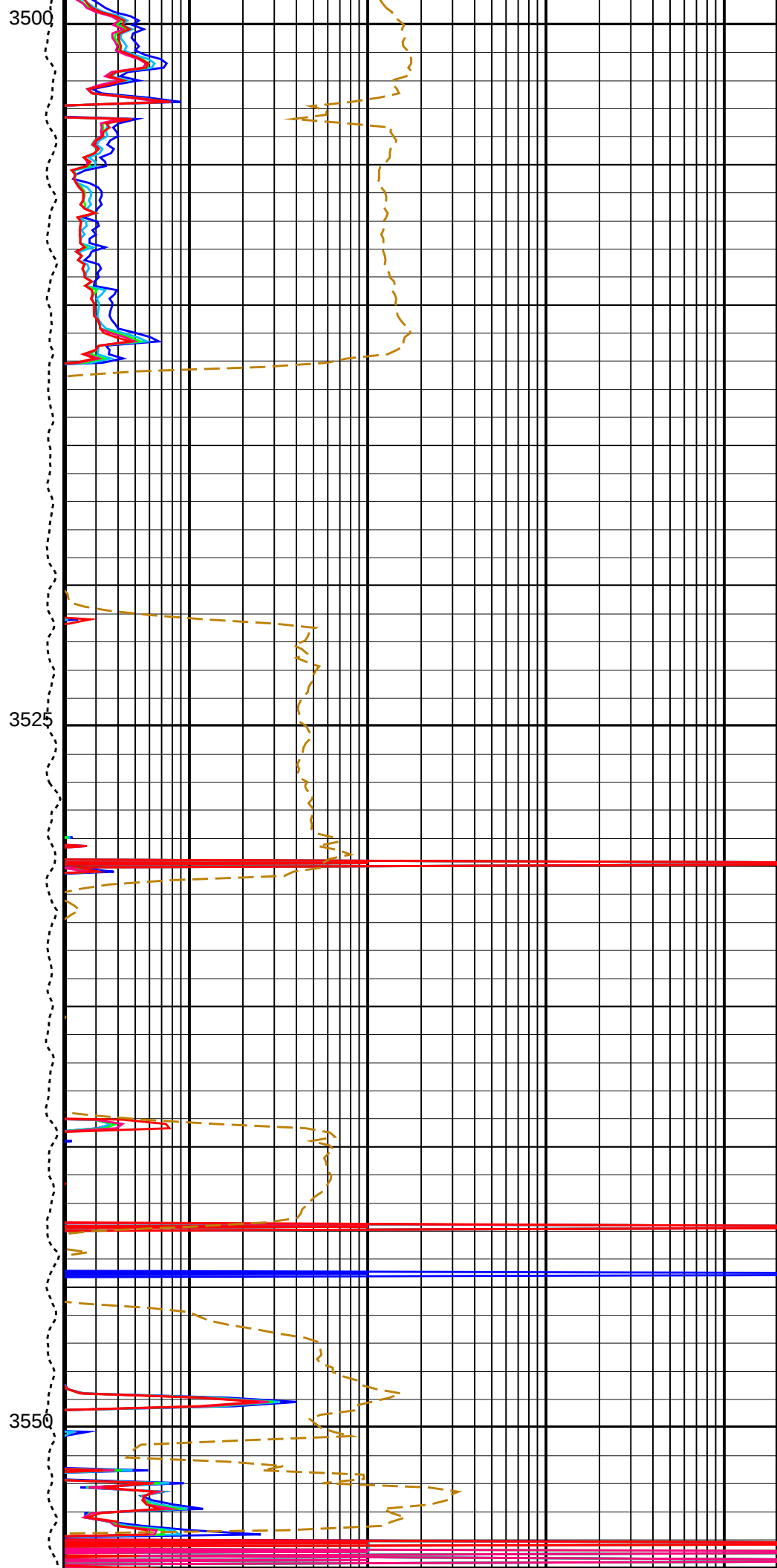
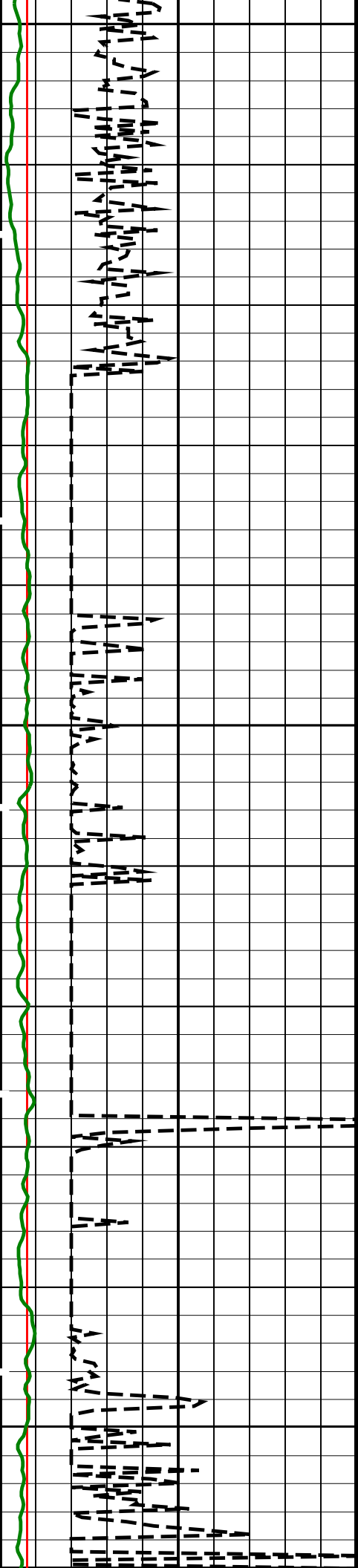


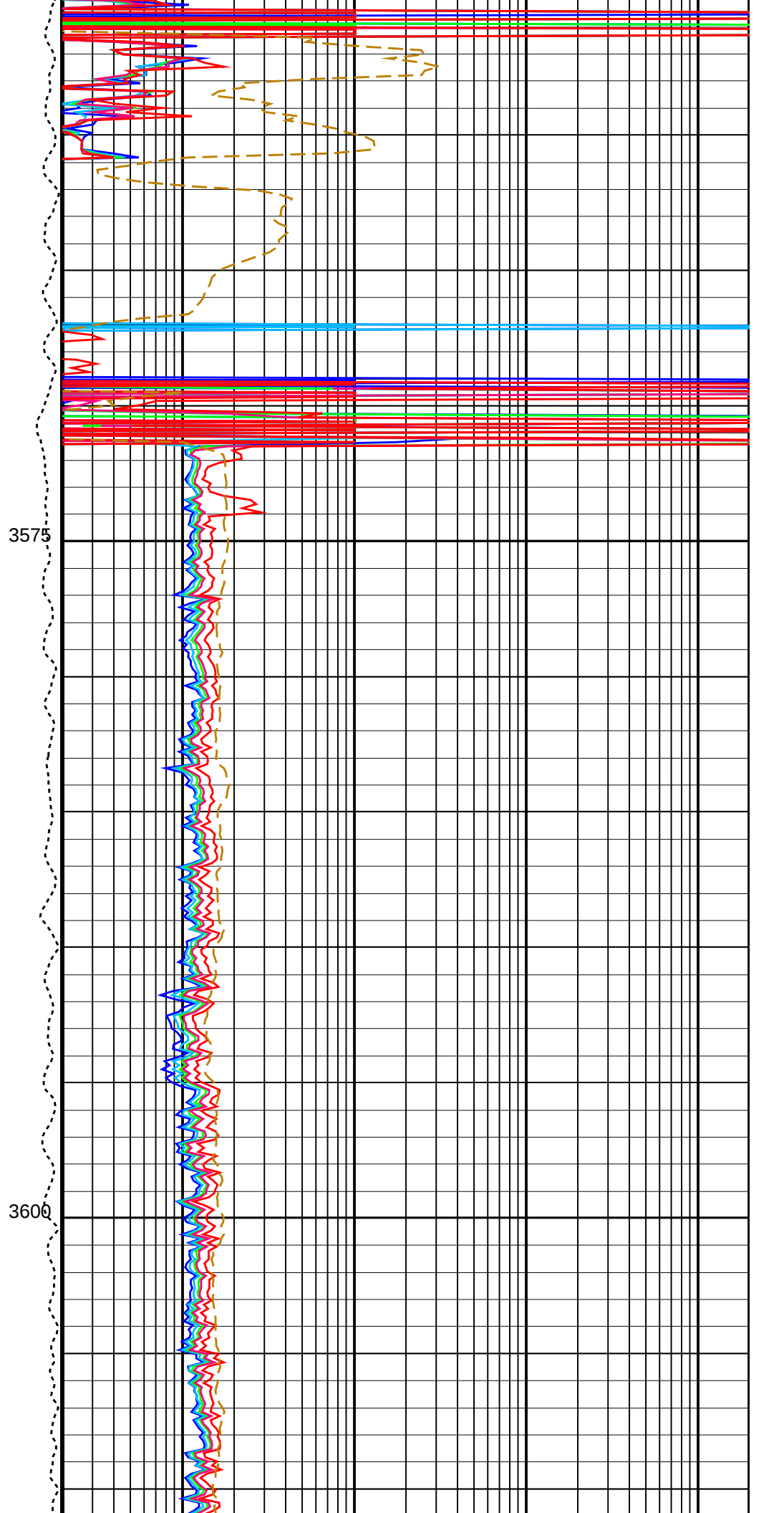
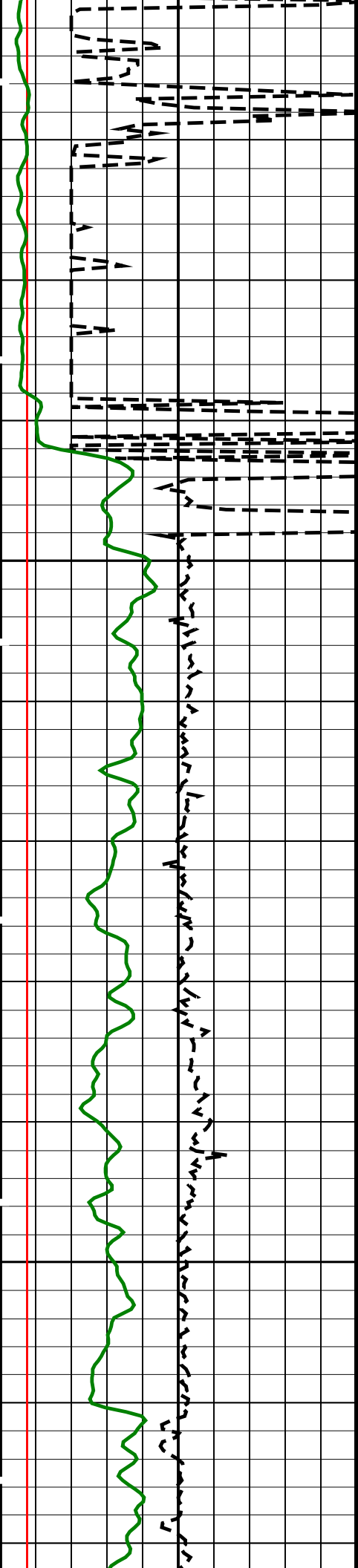


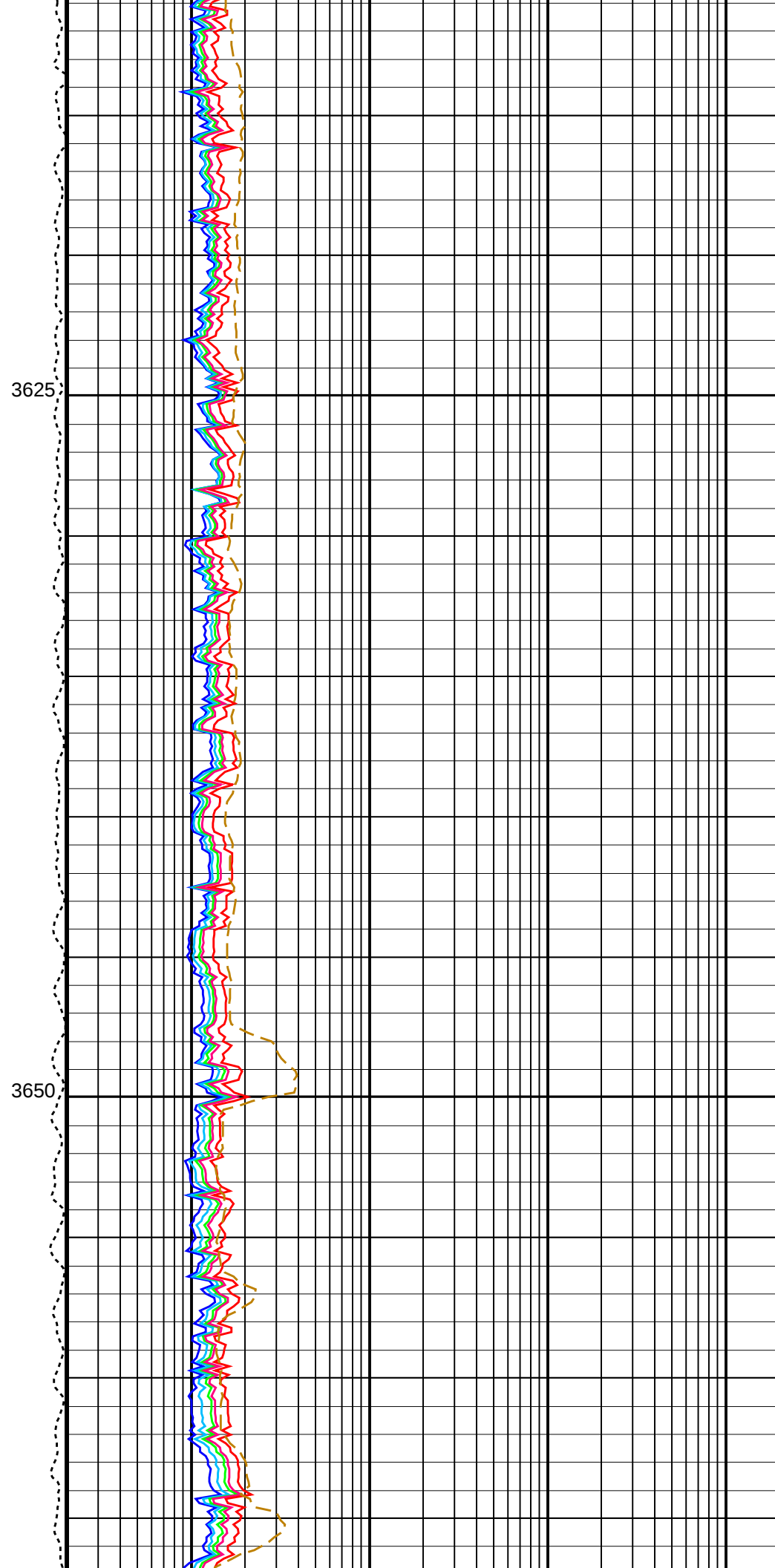
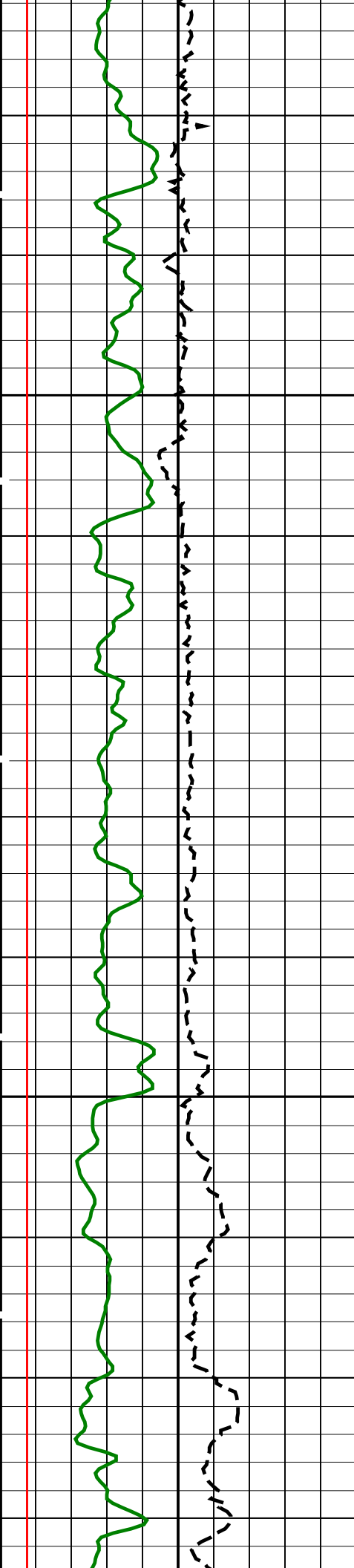
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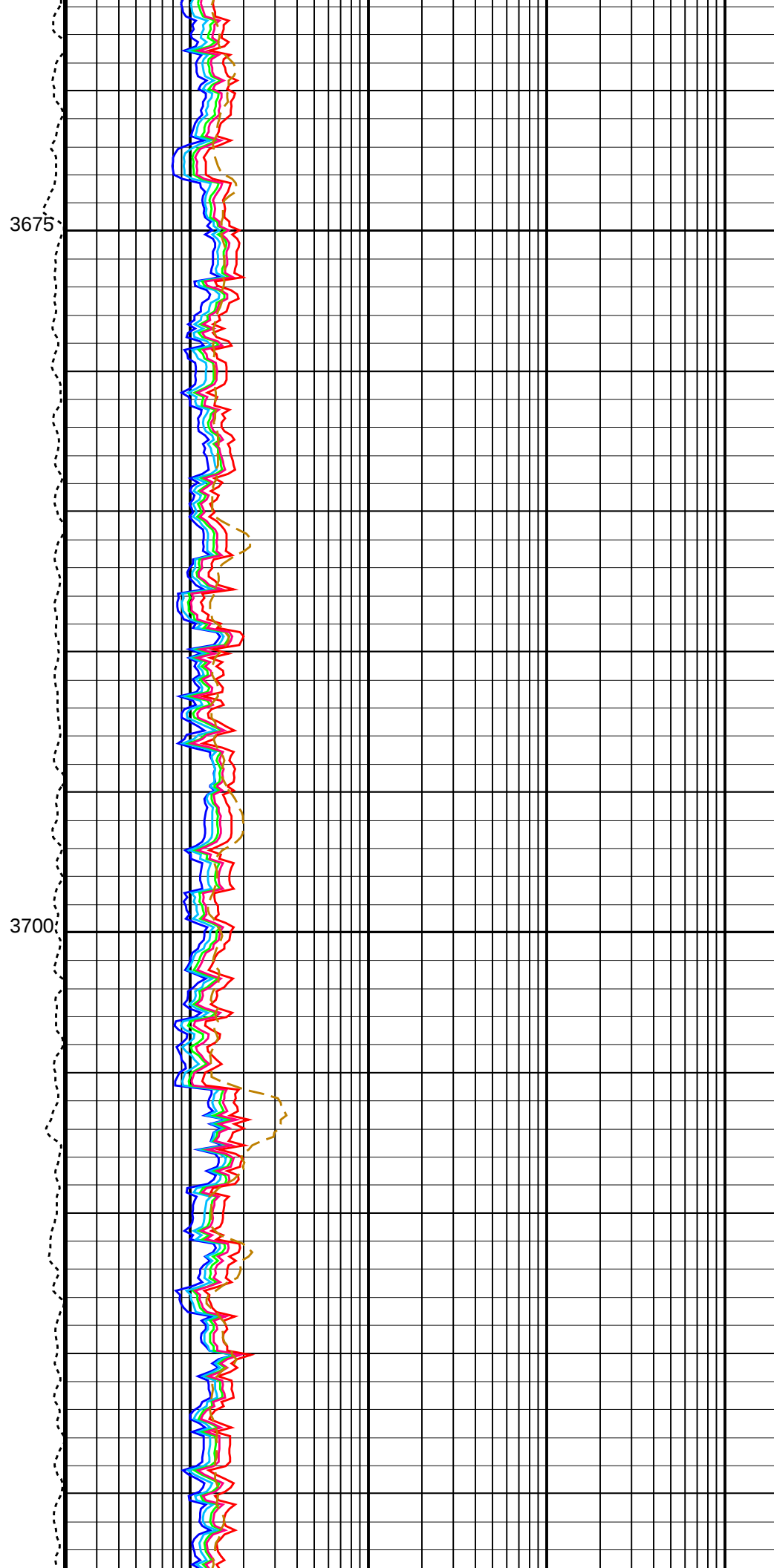
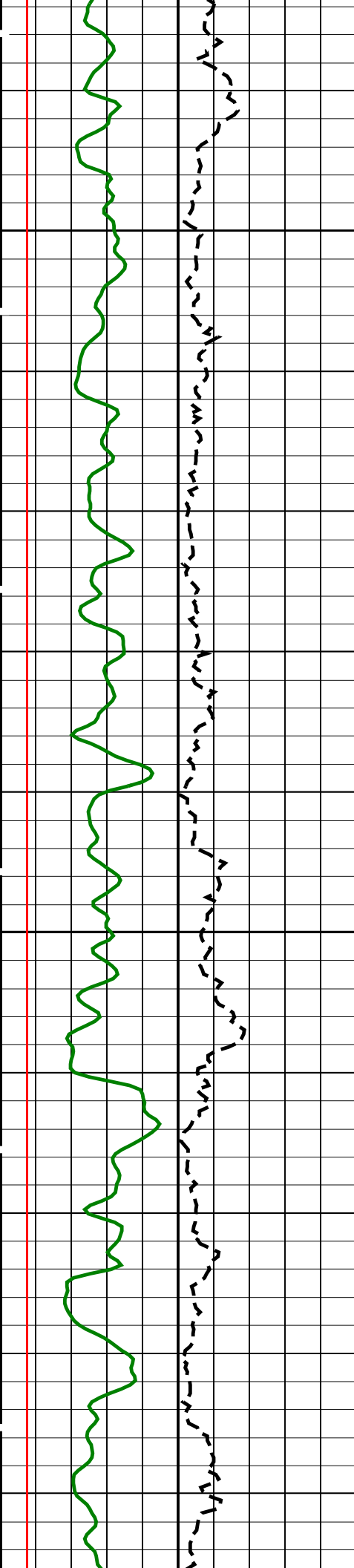
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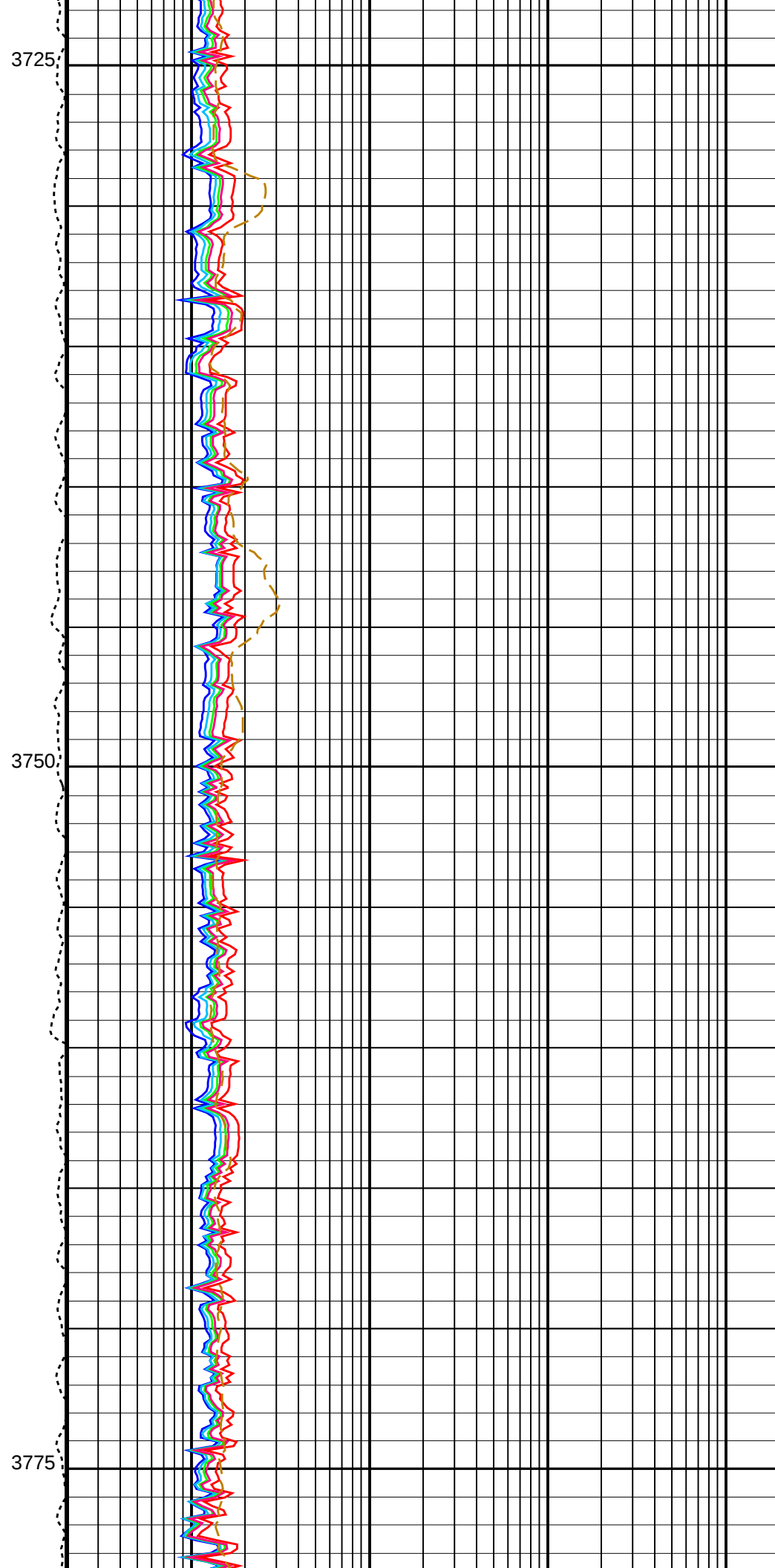
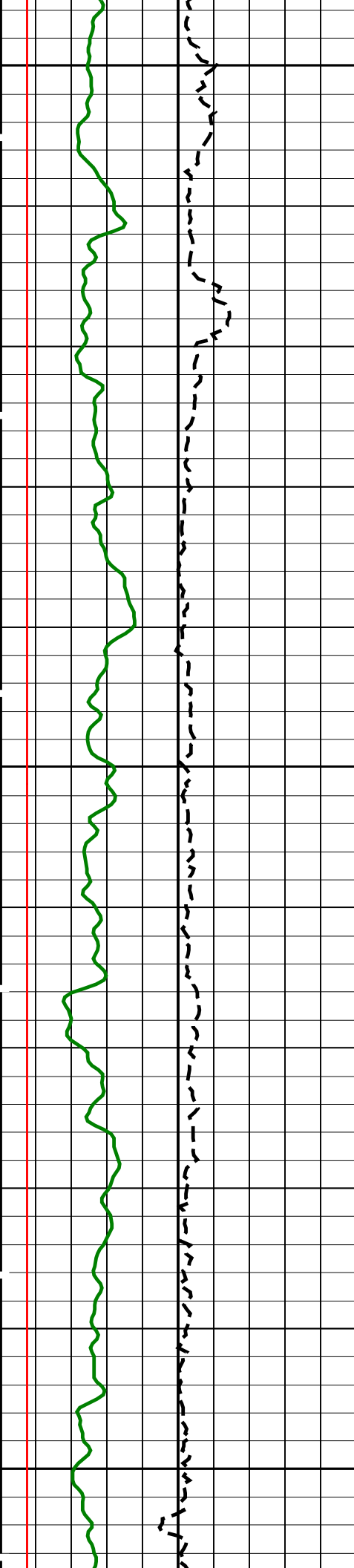


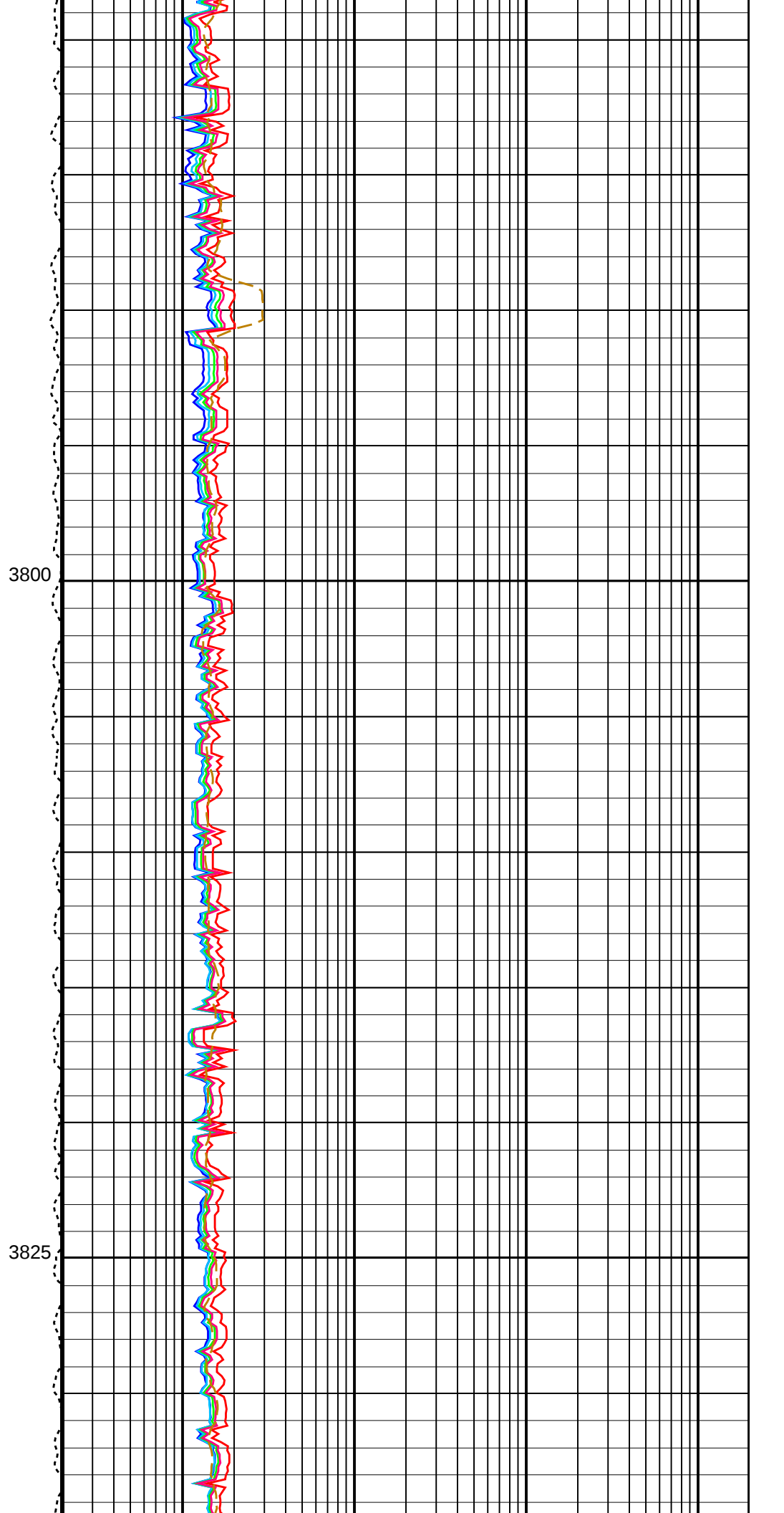
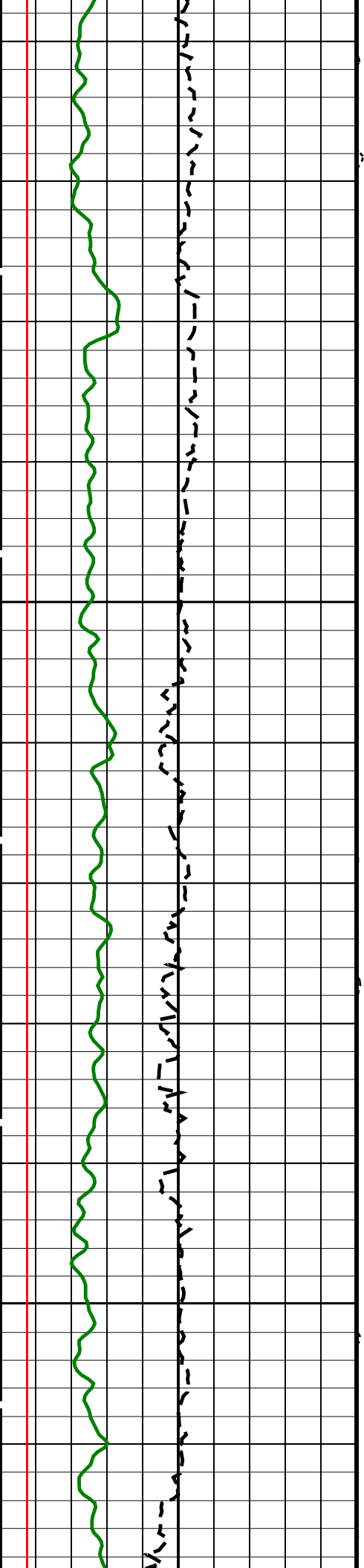


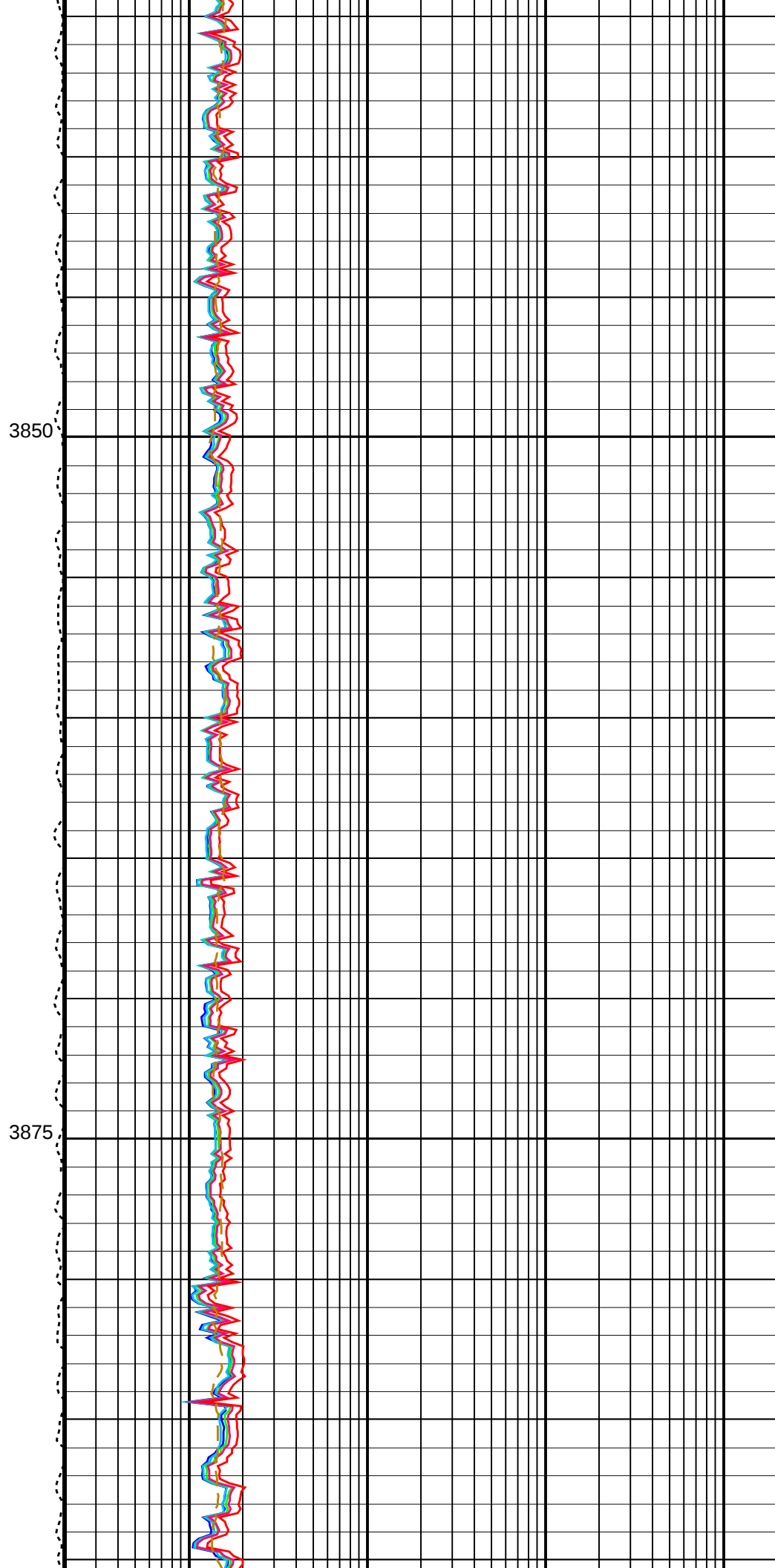
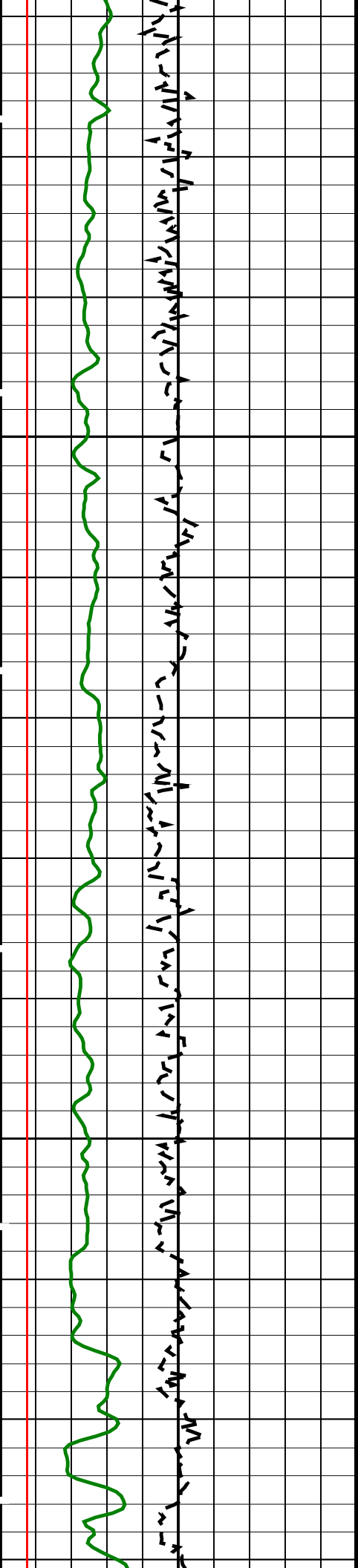


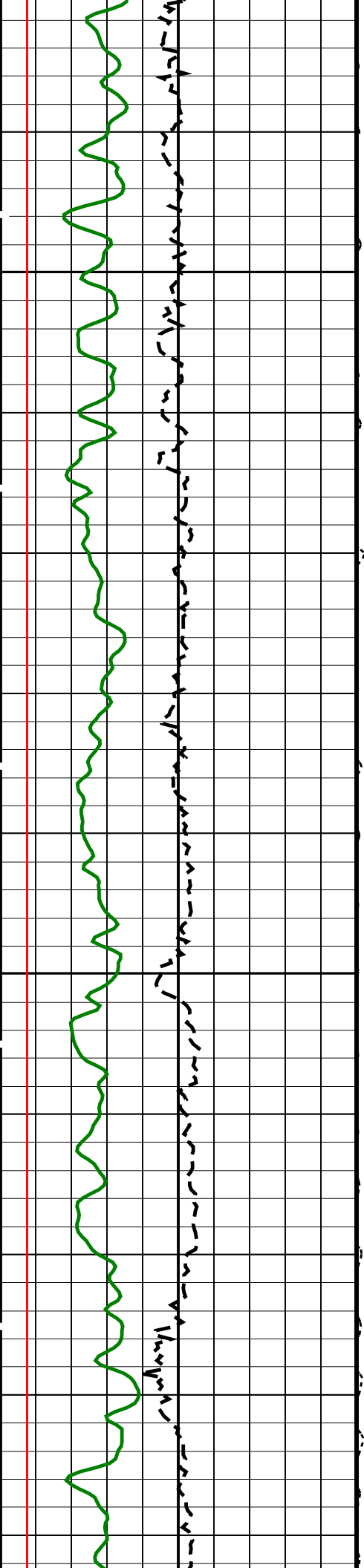






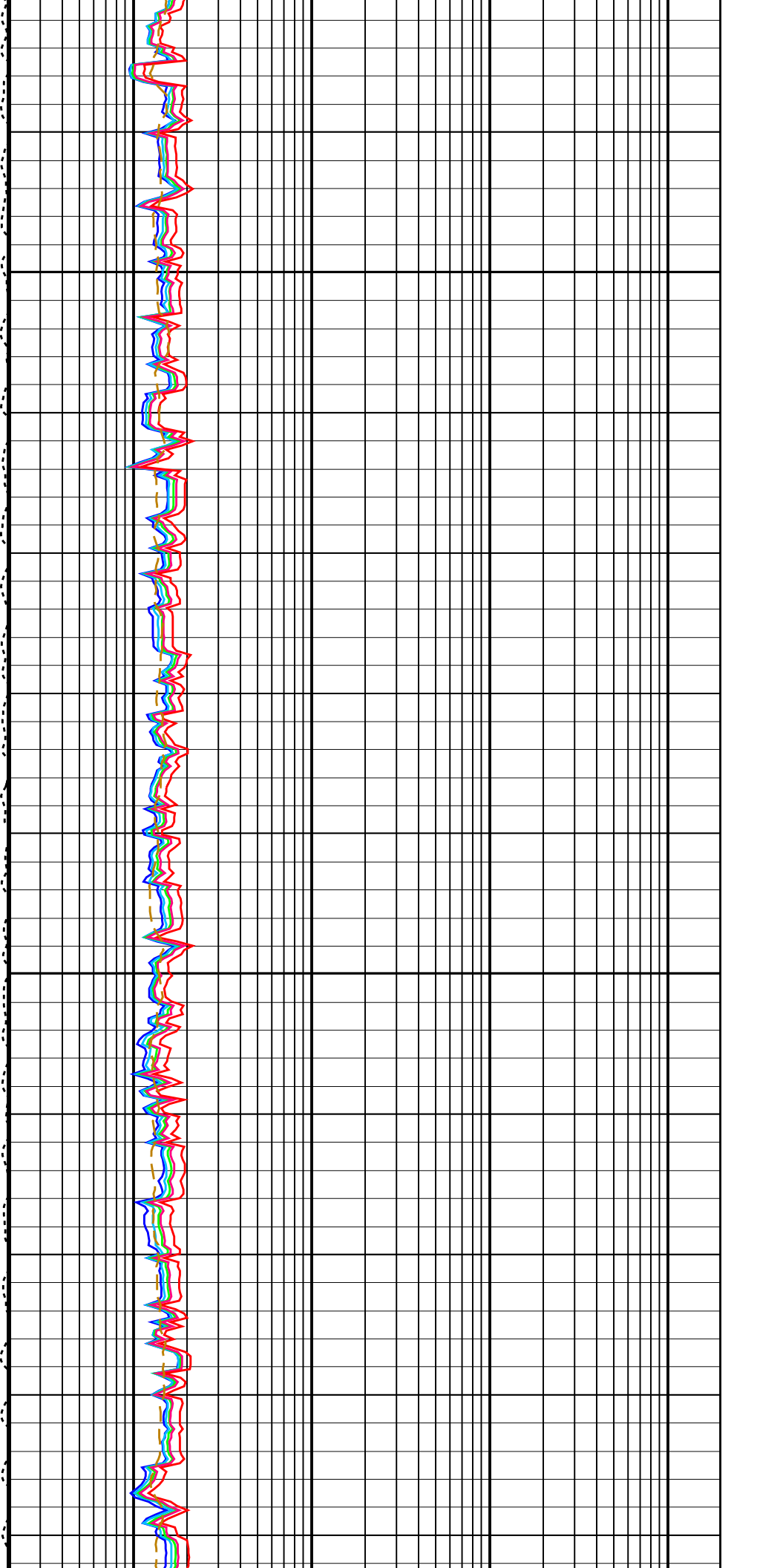


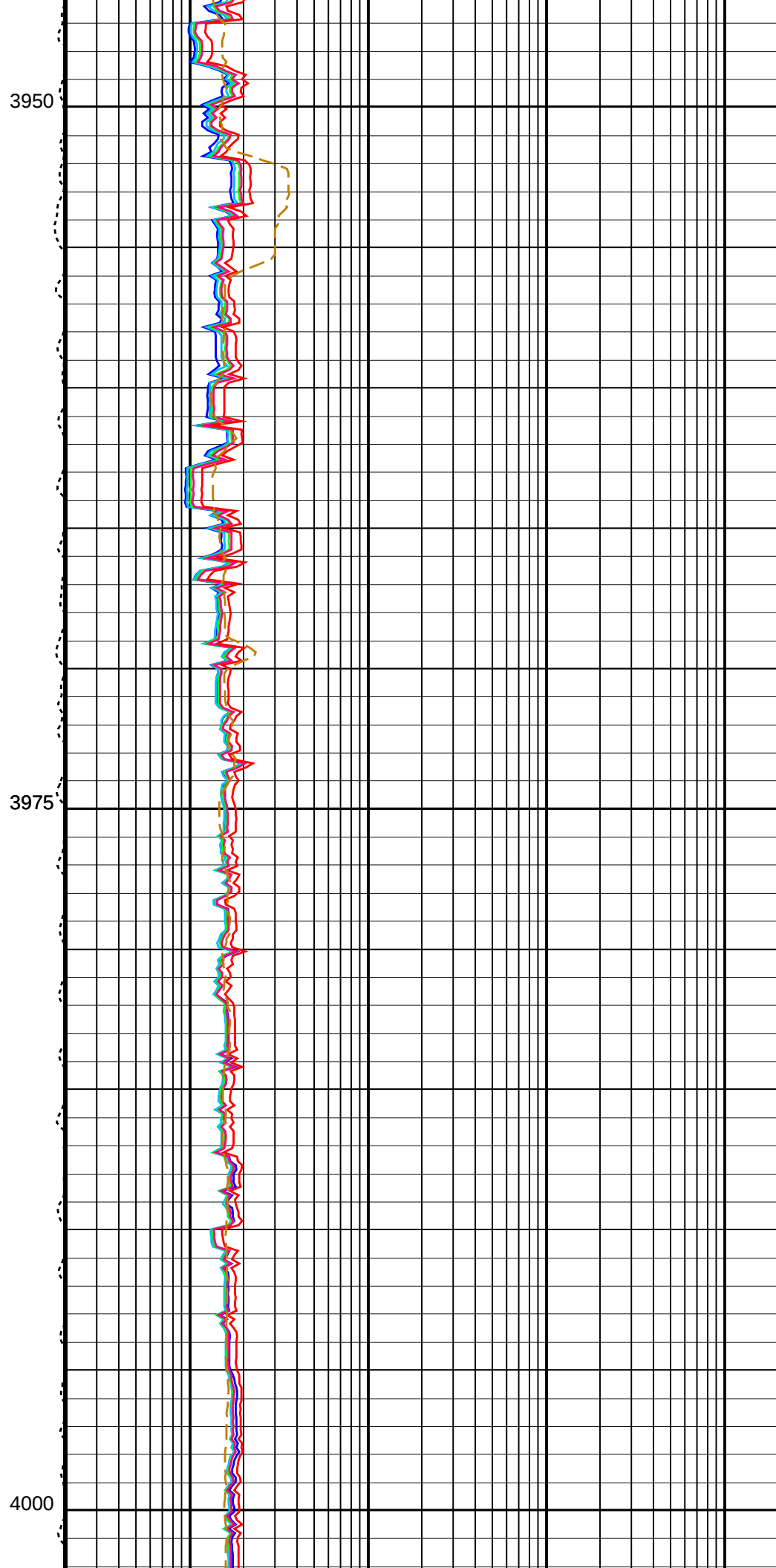
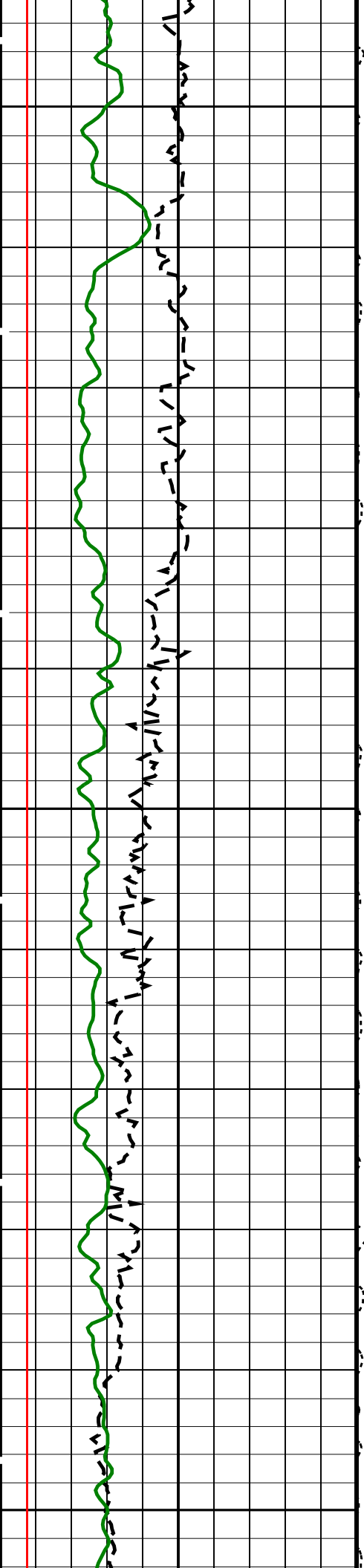


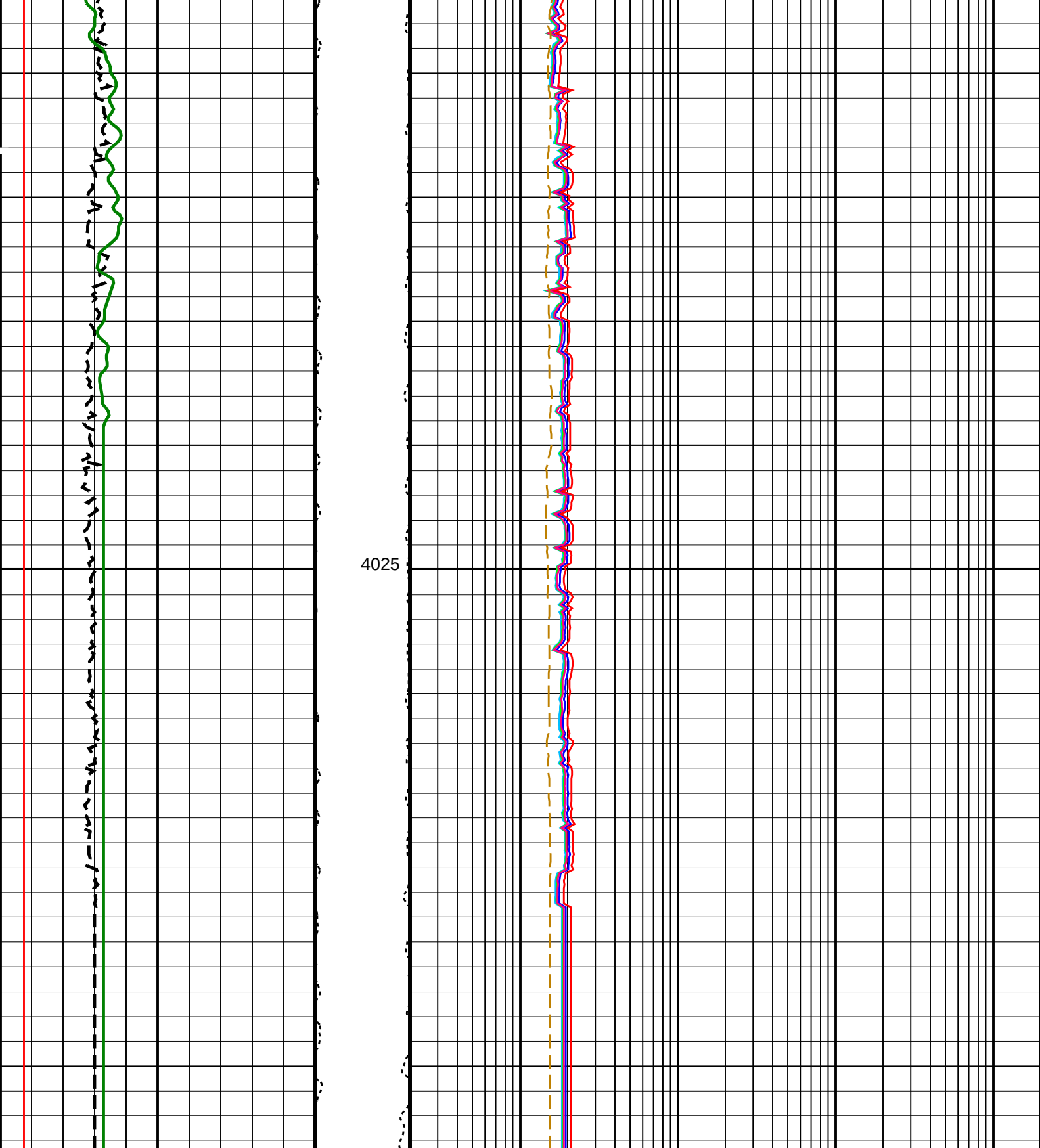


3900

3925







HLDS Caliper (LCAL) (IN) 020 Invasion Diameter (DI_HRLT) (IN) 050 HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0150	Tension (TENS) (LBF) 05000	HRLT Resistivity 1 (RLA1) (OHMM) 0.22000
		HRLT Resistivity 2 (RLA2) (OHMM) 0.22000
		HRLT Resistivity 3 (RLA3) (OHMM) 0.22000
		HRLT Resistivity 4 (RLA4) (OHMM) 0.22000

	0.2	HRLT Resistivity 4 (RLA4) (OHMM)	2000
		HRLT Resistivity 5 (RLA5)	
	0.2	(OHMM)	2000
	0.02	HRLT Mud Resistivity (RM_HRLT) (OHMM)	200

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC
GCSE	Generalized Caliper Selection	BS	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
PROGINV	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	Eccentered	
SHT	Surface Hole Temperature	20	DEGC
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	
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC
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	BS	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00469139	
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	
SHT	Surface Hole Temperature	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01596	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01125	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC
GCSE	Generalized Caliper Selection	BS	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	0.0	M
MST	Mud Sample Temperature	23.00	DEGC
PP	Playback Processing	NORMAL	
TD	Total Depth	3096.4	M

Format: HRLT Vertical Scale: 1:200 Graphics File Created: 15-Nov-2022 05:19

OP System Version: 19C0-187

MSS_LDEO-A 19C0-187 HRLT-B 19C0-187

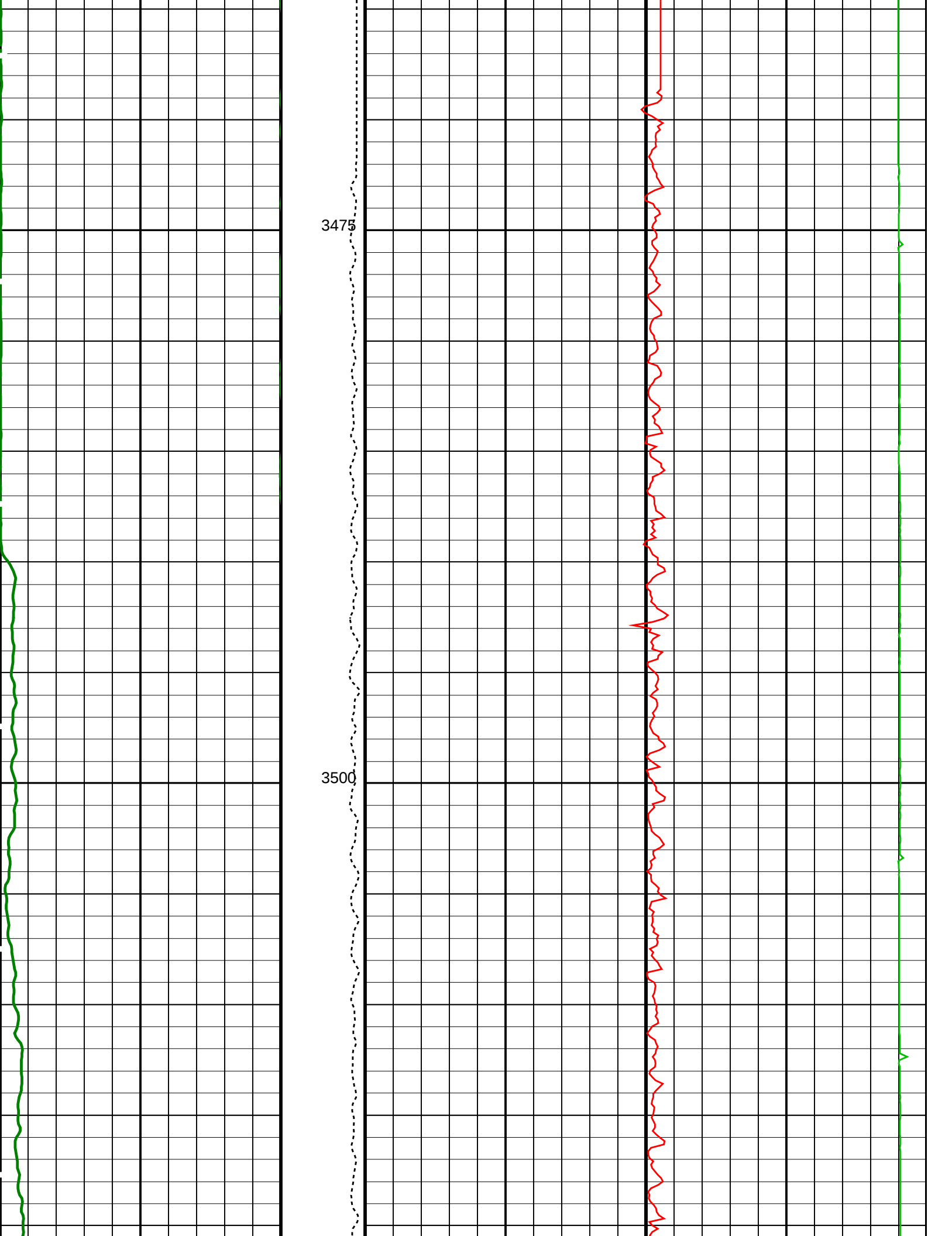
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HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		
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Output DLIS Files			
DEFAULT	MSS_LDEO_HRLA_LDL_014PUP	FN:15	PRODUCER 15-Nov-2022 05:19
RTB	MSS_LDEO_HRLA_LDL_014PUP	FN:16	PRODUCER 15-Nov-2022 05:19

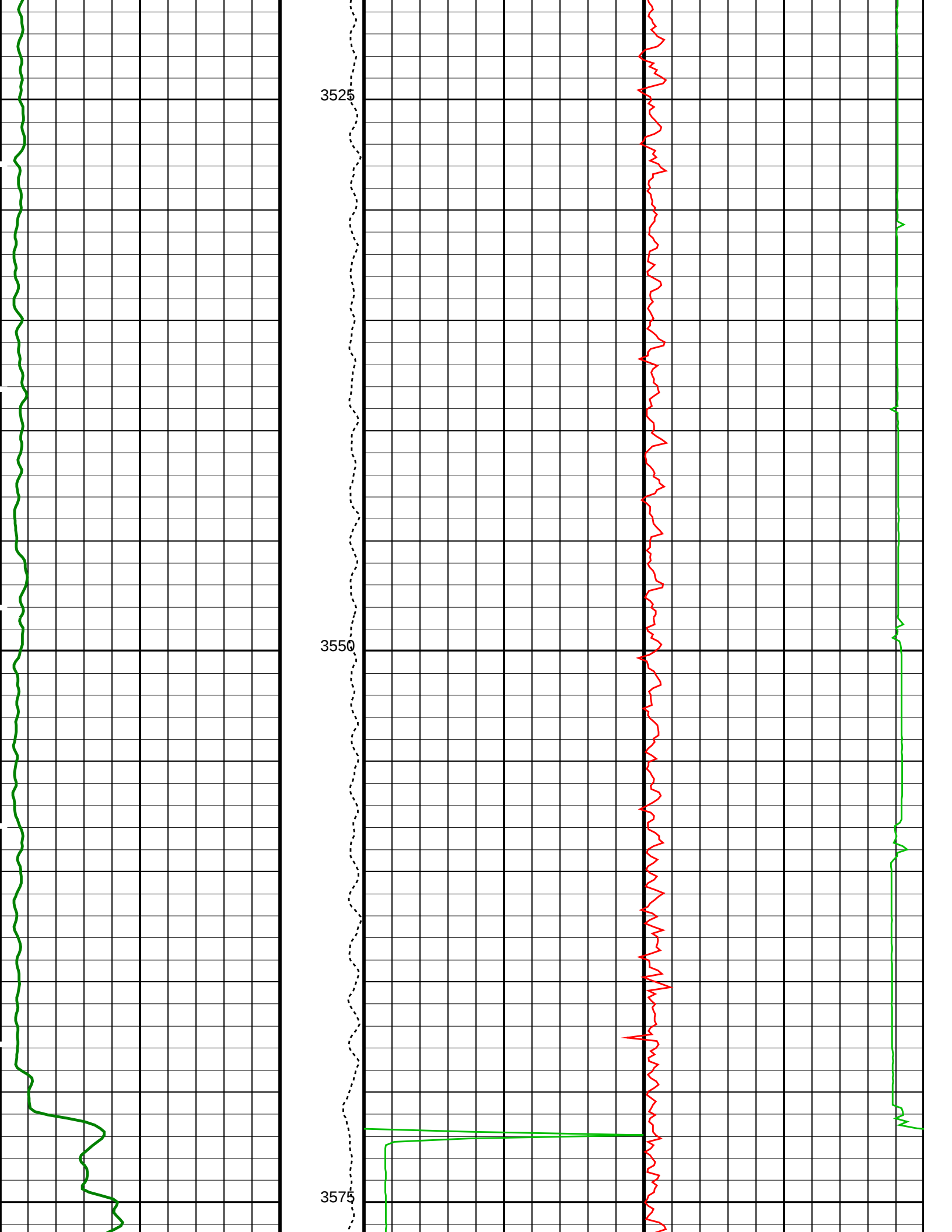
Company: International Ocean Discovery Program				Well: Expedition 397, Site U1587C		
Input DLIS Files						
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Output DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_014PUP	FN:15	PRODUCER	15-Nov-2022 05:19	4048.4 M	3442.7 M
RTB	MSS_LDEO_HRLA_LDL_014PUP	FN:16	PRODUCER	15-Nov-2022 05:19	4048.4 M	3442.7 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	SKK-5169-EDTCB					

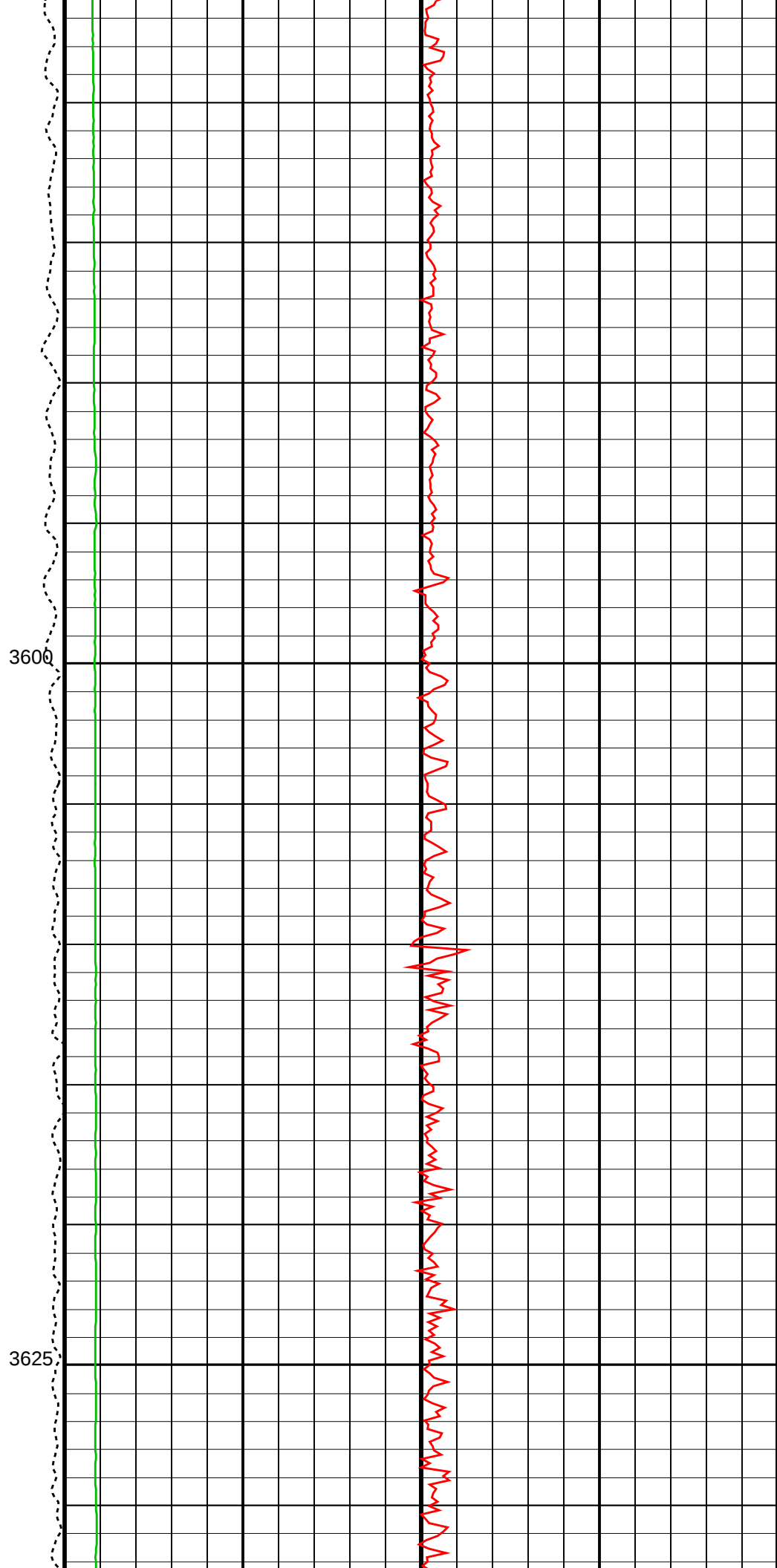
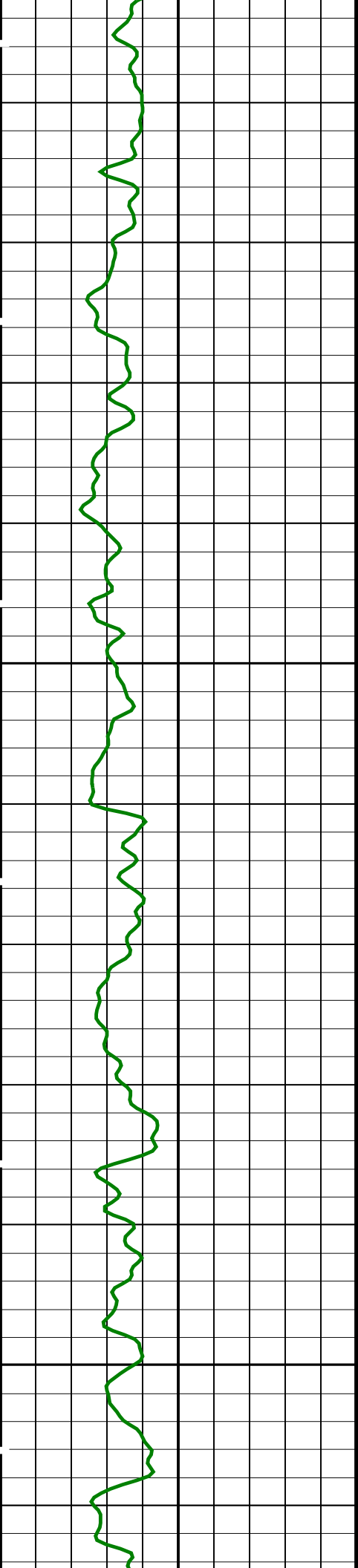
PIP SUMMARY

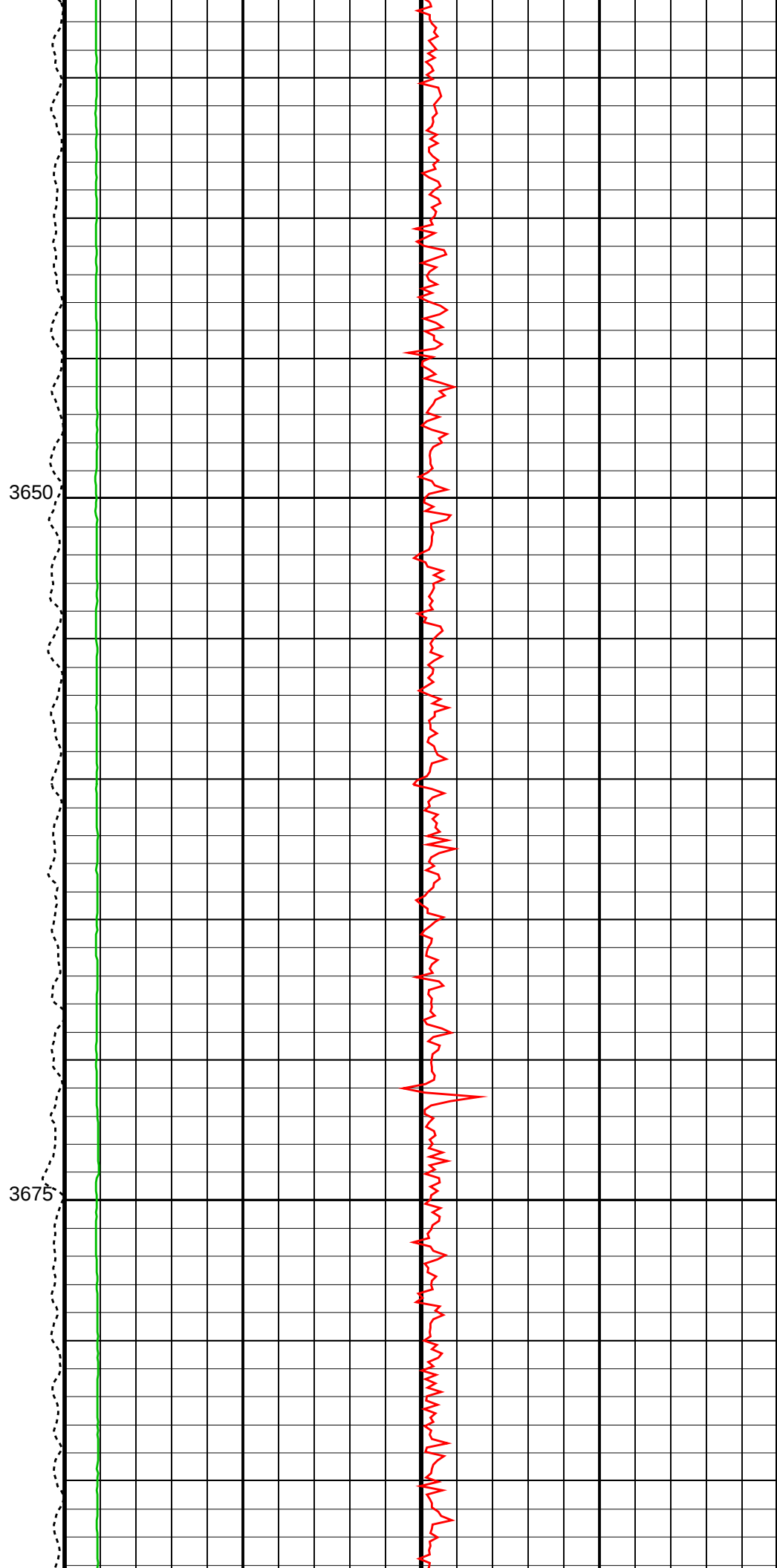
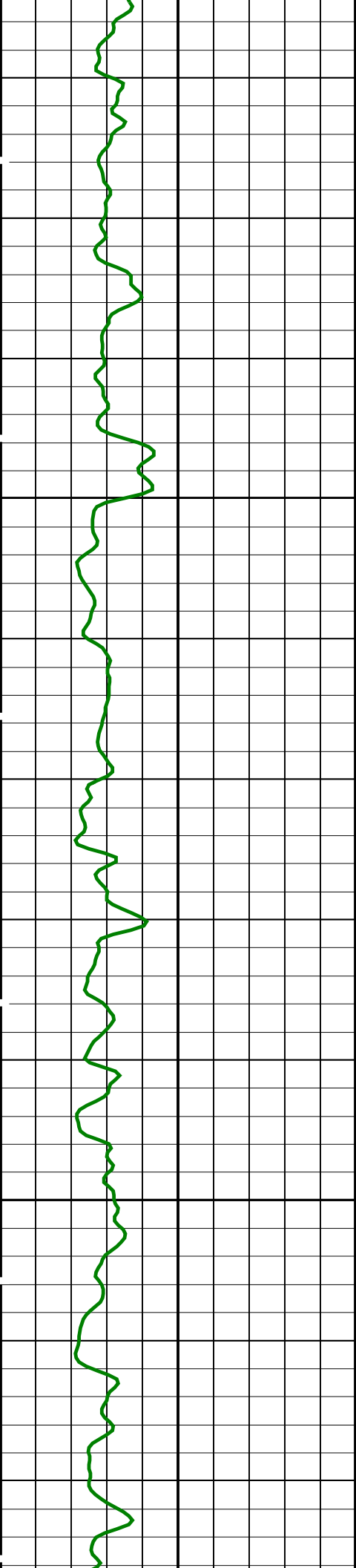
Time Mark Every 60 S		Dual-Coil Susceptibility (MSSLSUS_LDEO)	
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)		Axial Acceleration (MSSZACC_LDEO) (M/S2)	
0 150	0 5000	-10000 (PPM)	90000
3450		0 20	

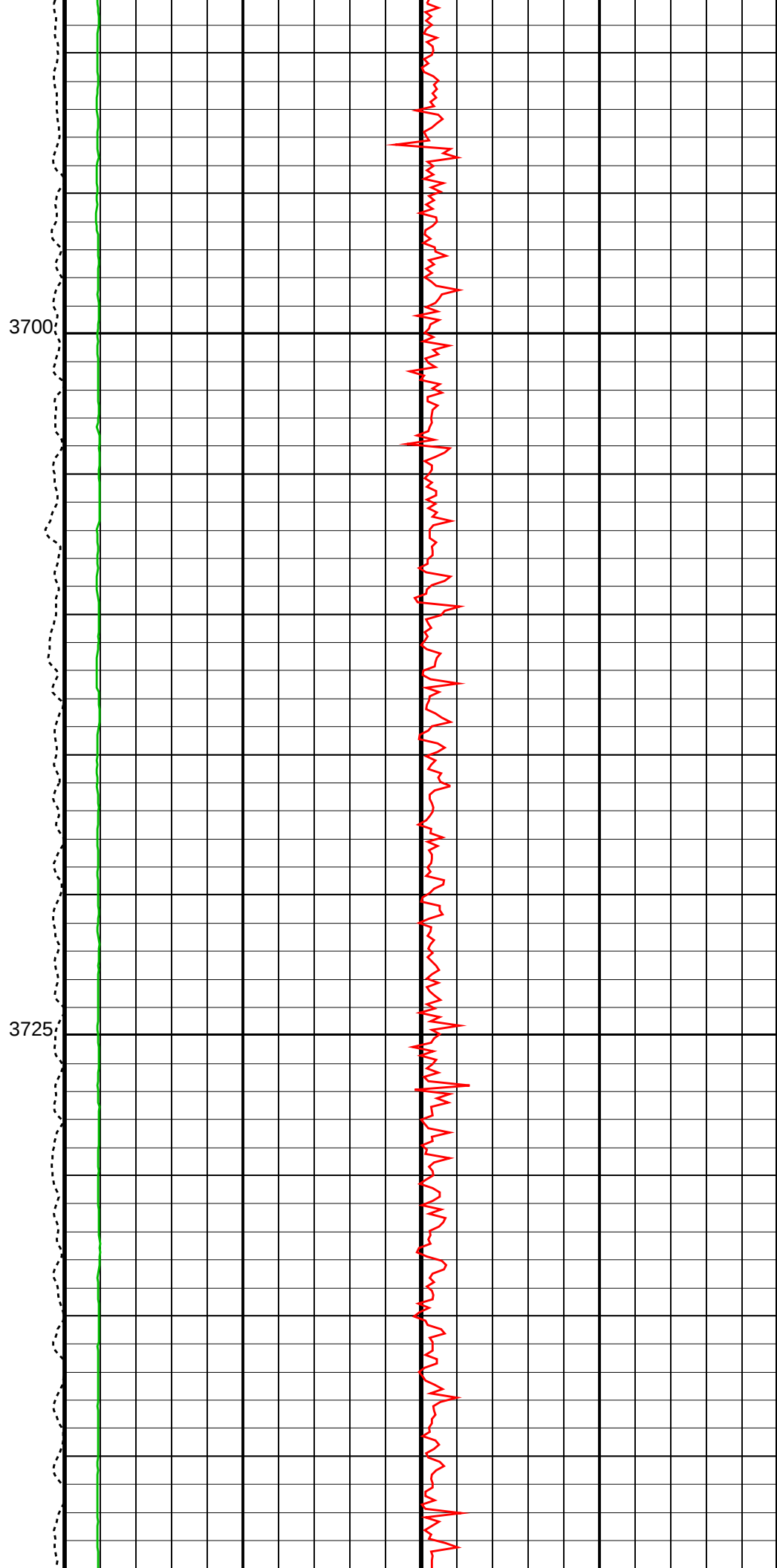
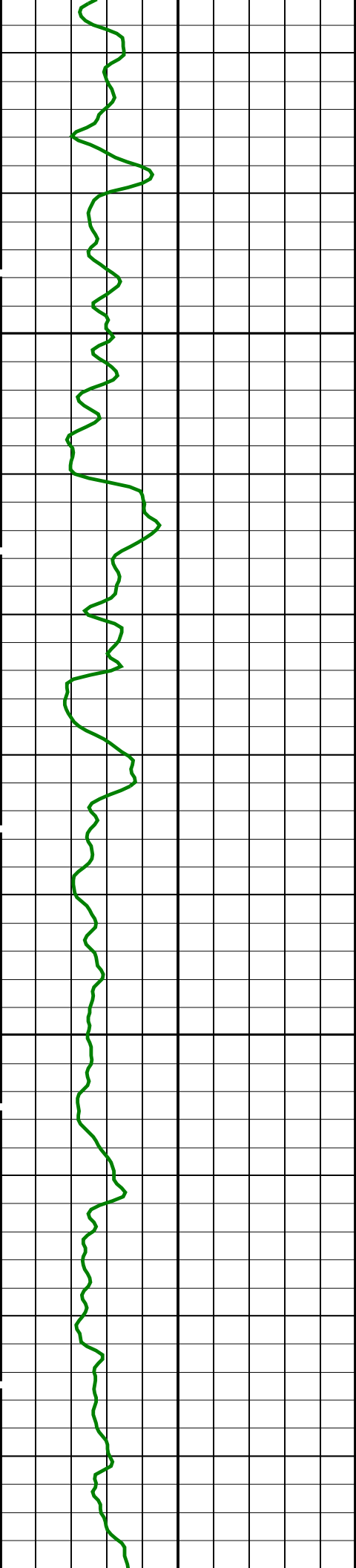
The figure displays three stacked time-series plots sharing a common x-axis representing time. The top plot, 'HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)', shows a green line fluctuating around a value of 3450. The middle plot, 'Tension (TENS) (LBF)', shows a black line fluctuating around a value of 3450. The bottom plot, 'Axial Acceleration (MSSZACC_LDEO) (M/S2)', shows a red line fluctuating around a value of 0. The x-axis has major ticks every 60 seconds, with labels at 0, 150, and 5000. The y-axis for the top plot ranges from 0 to 150, and for the middle plot from 0 to 5000. The y-axis for the bottom plot ranges from -10000 to 90000 PPM.

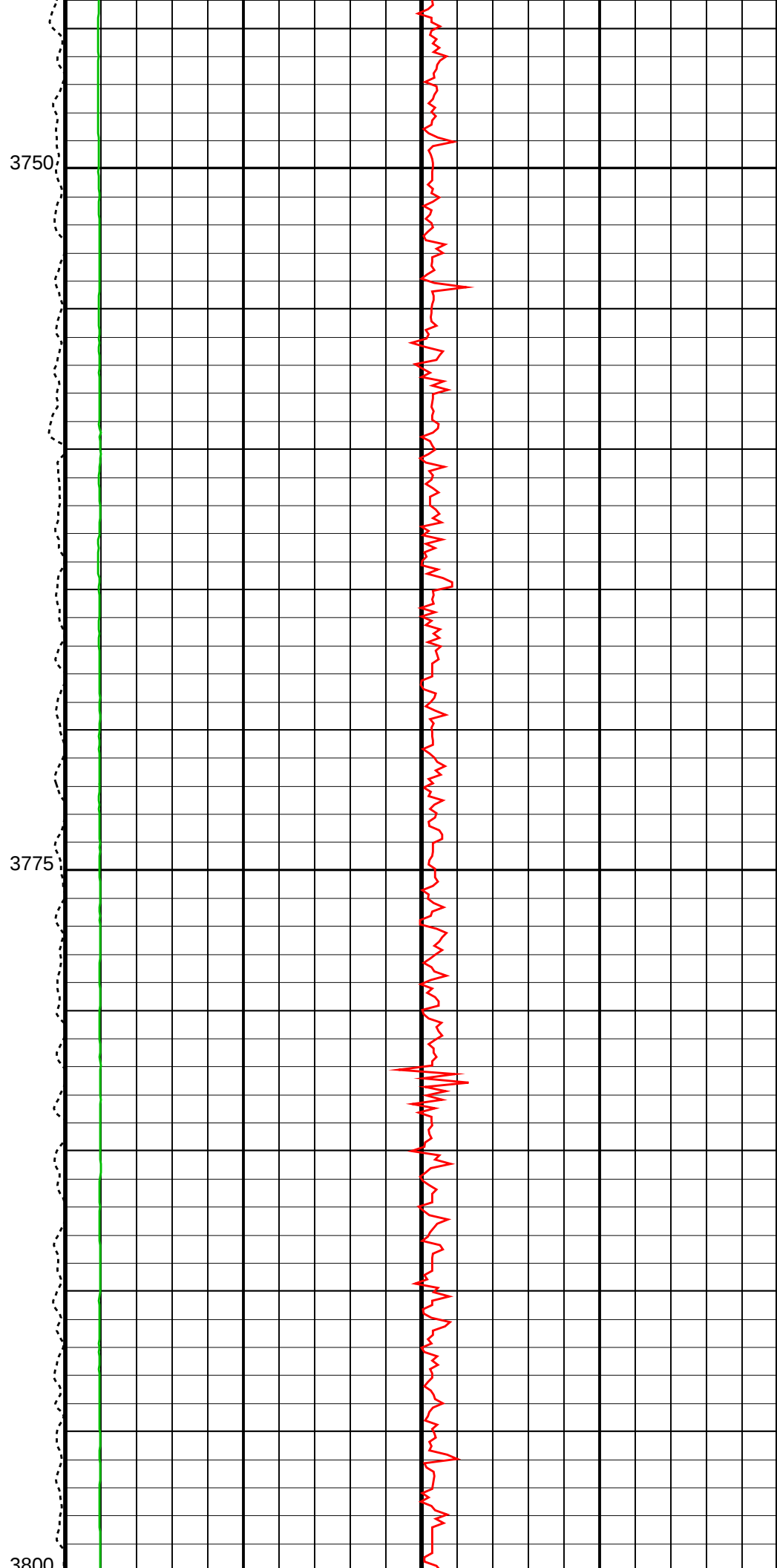
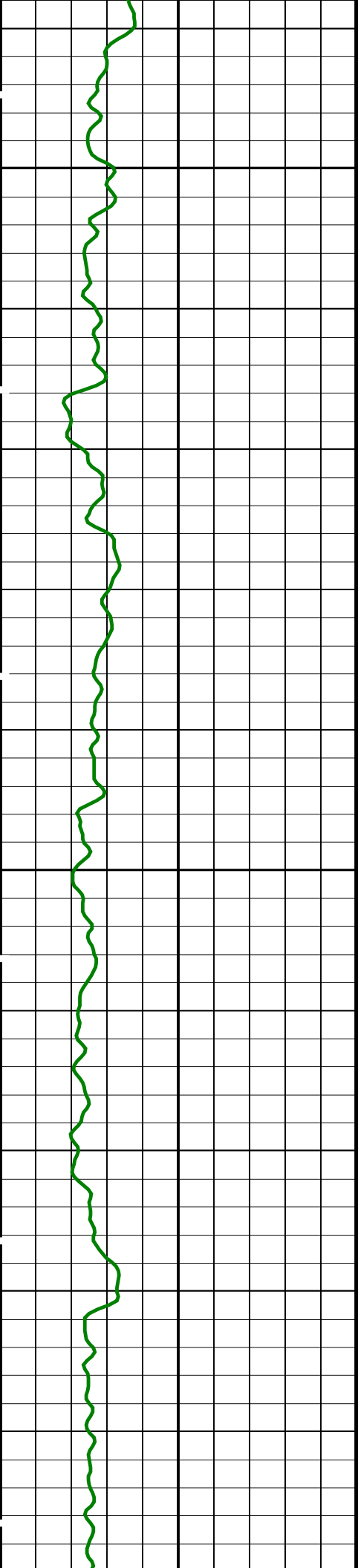


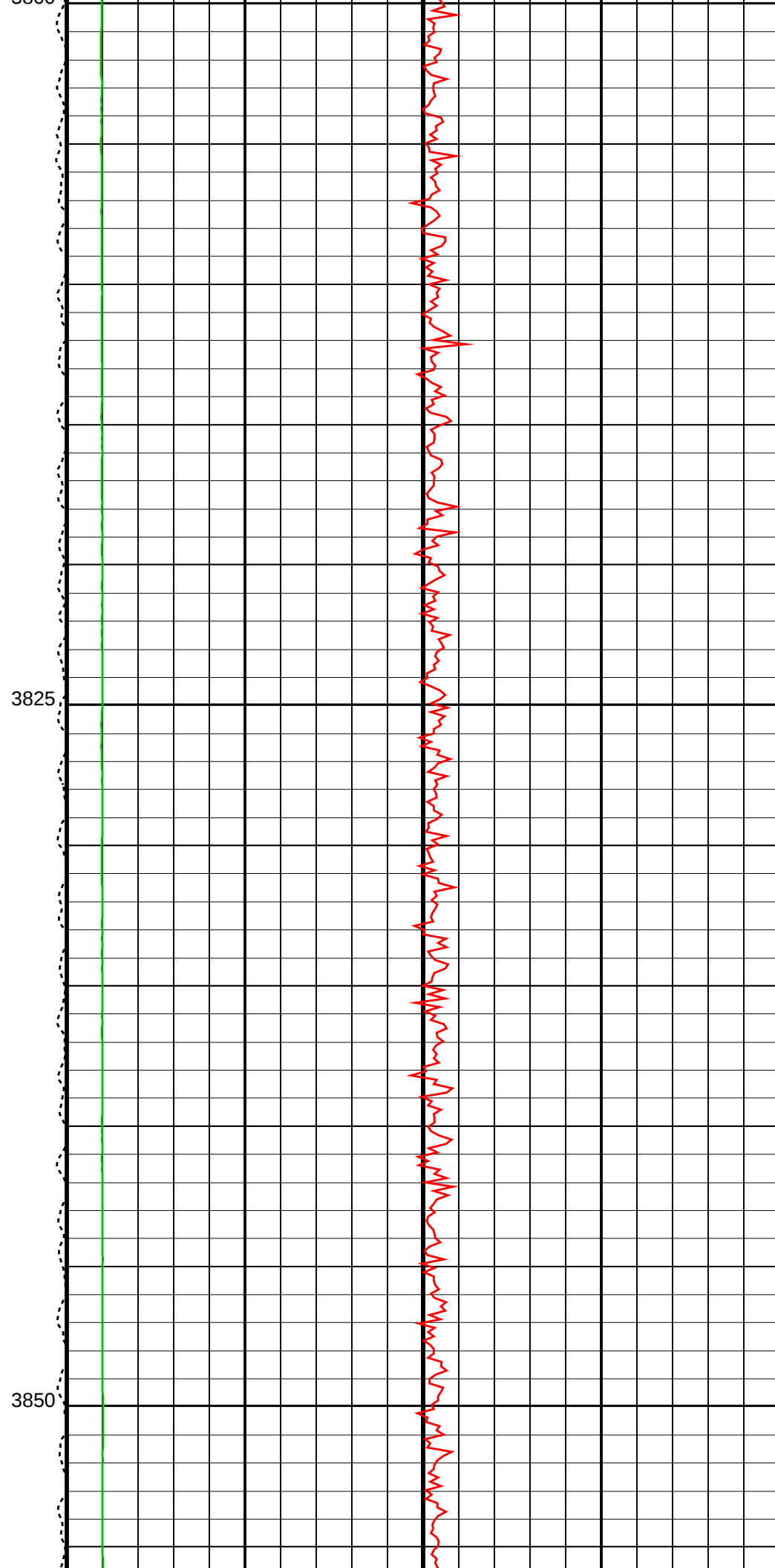
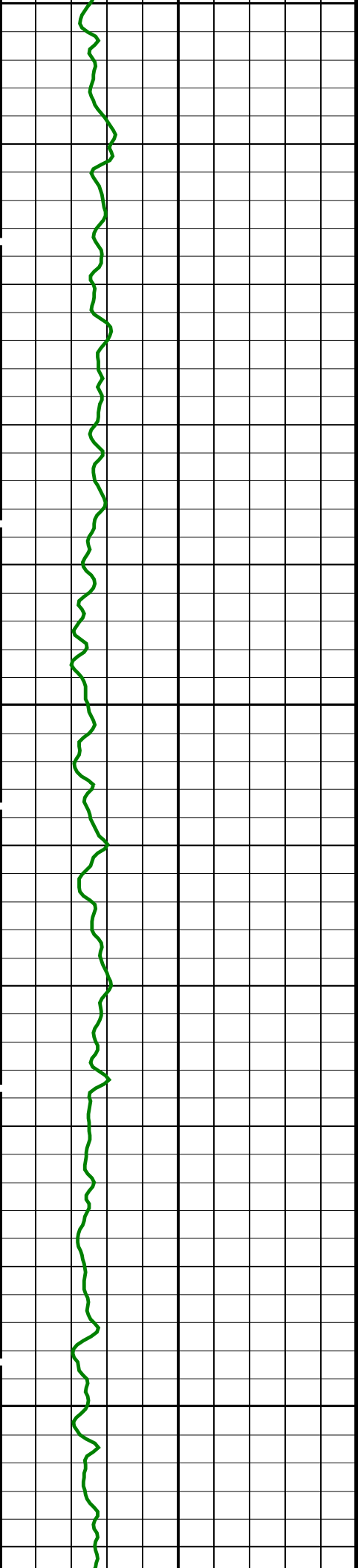


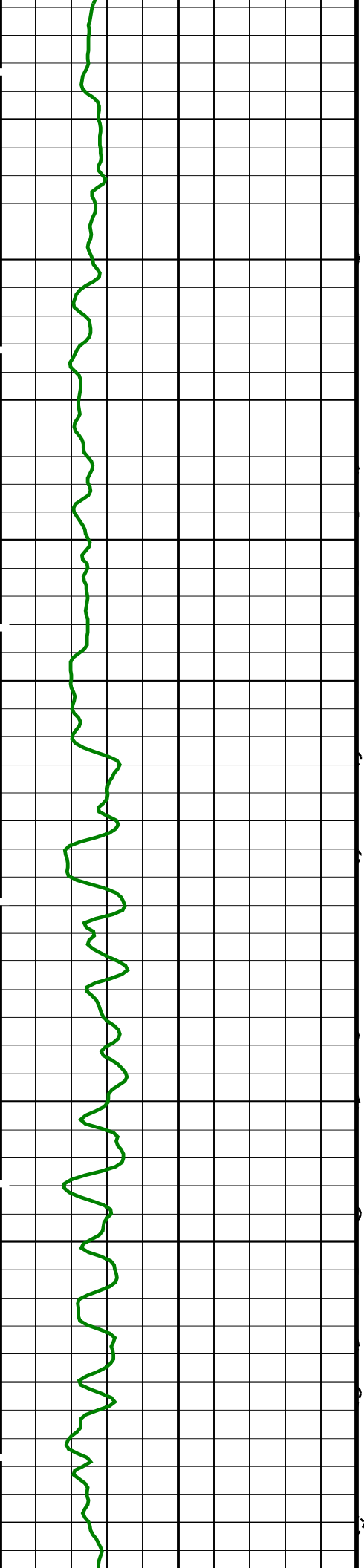






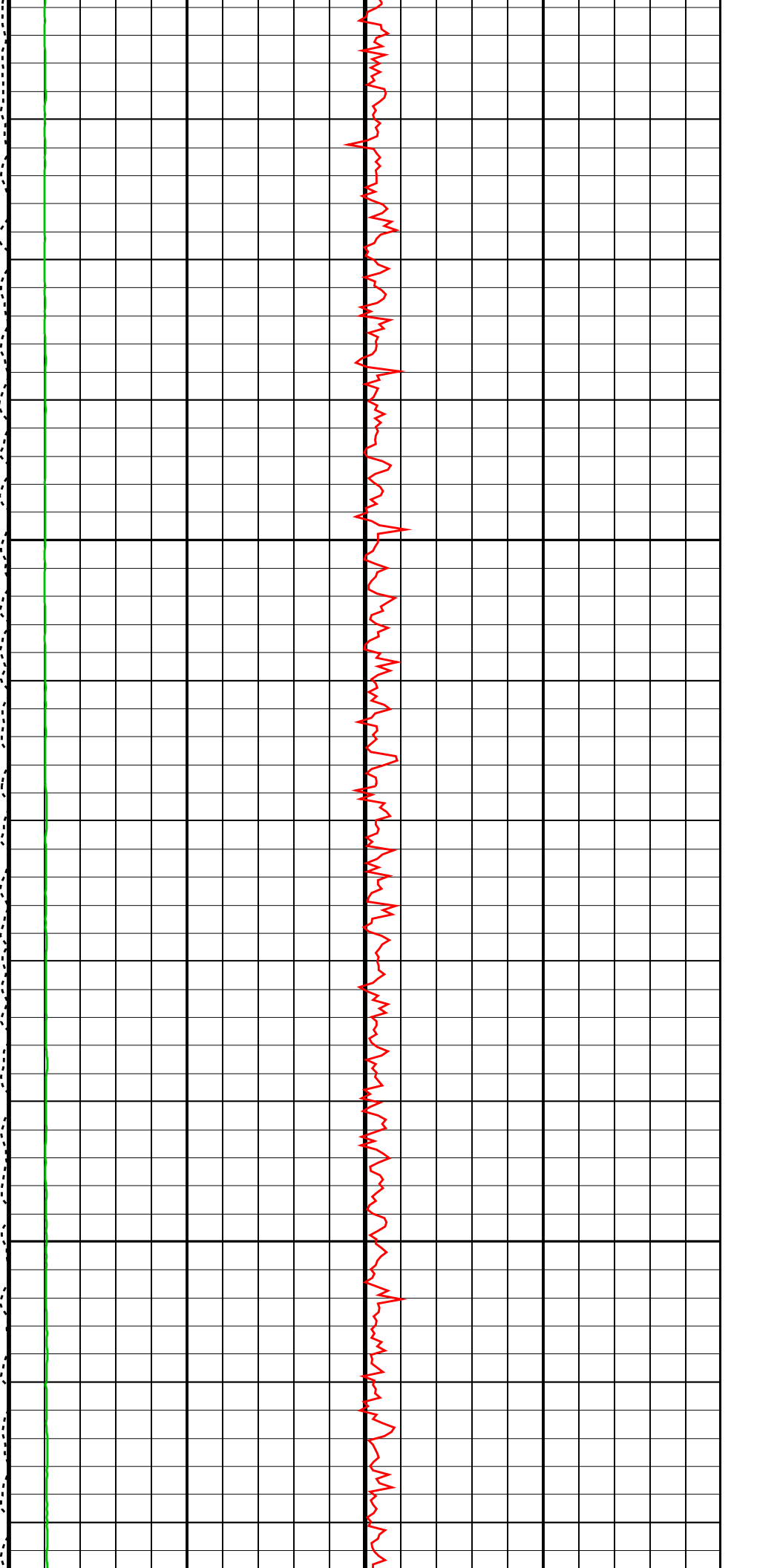


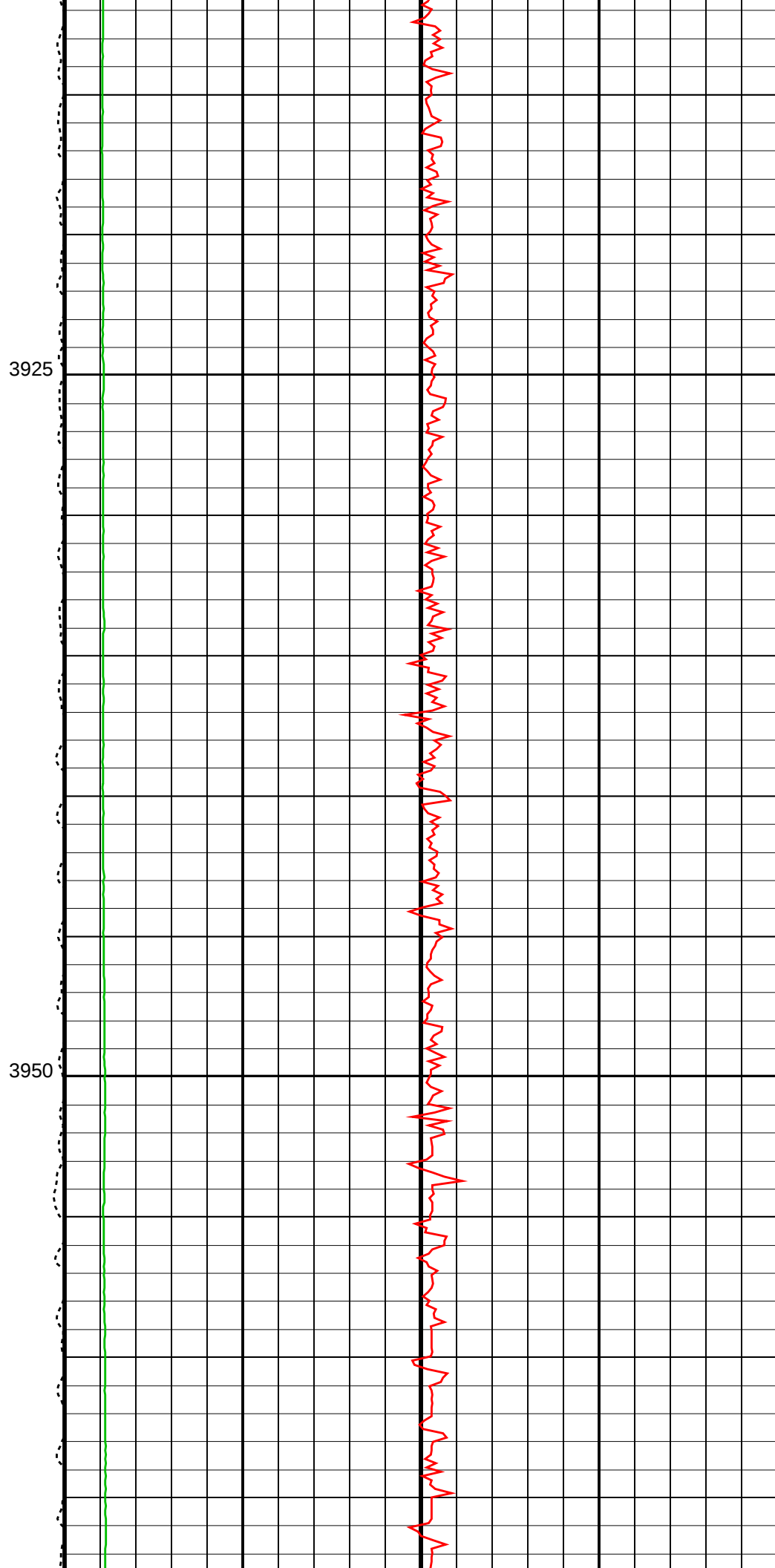
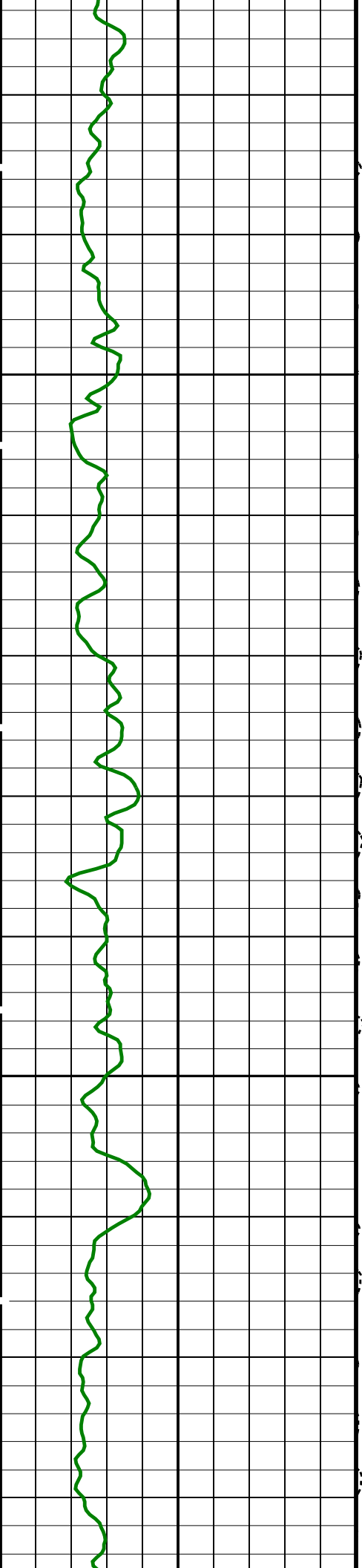


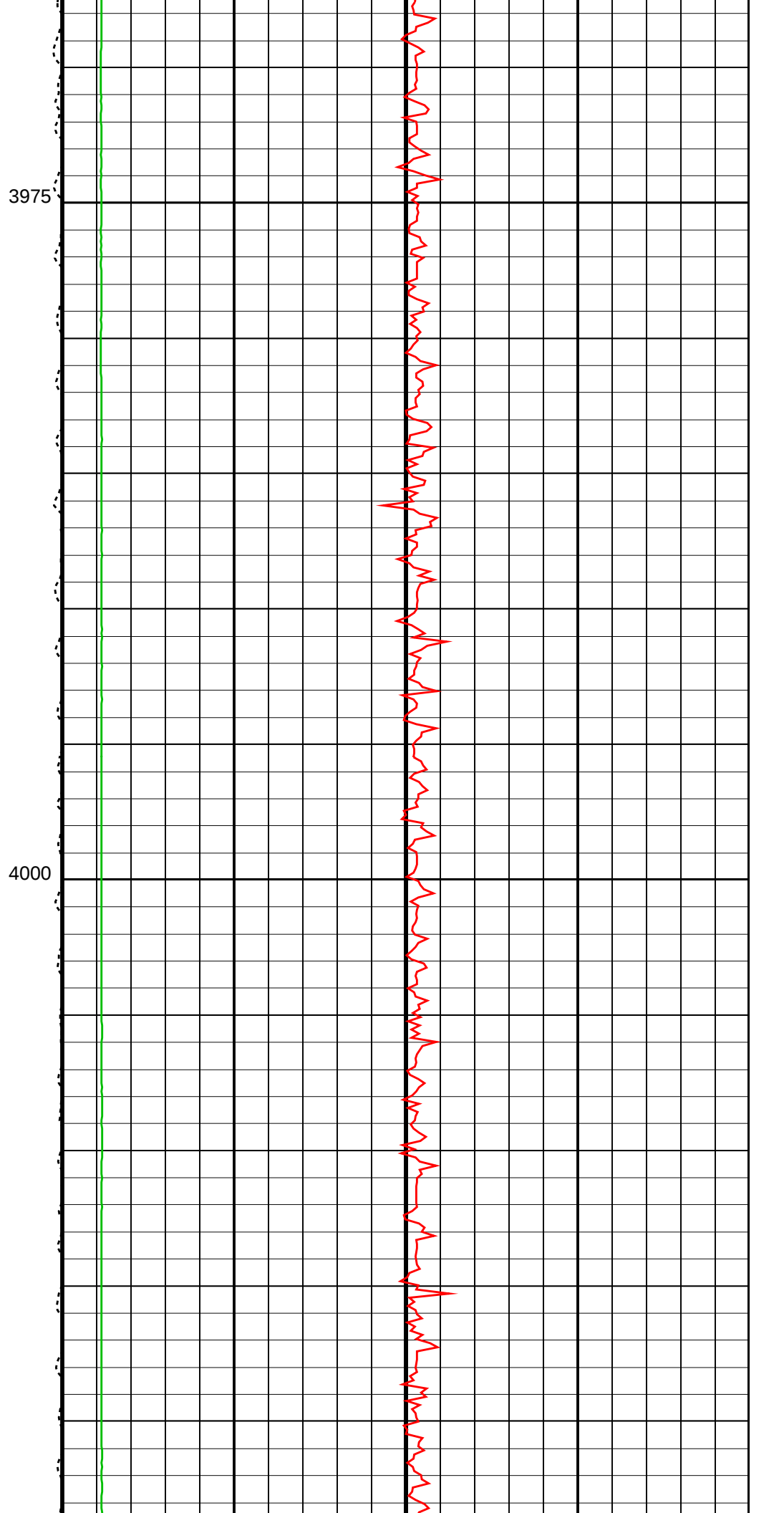
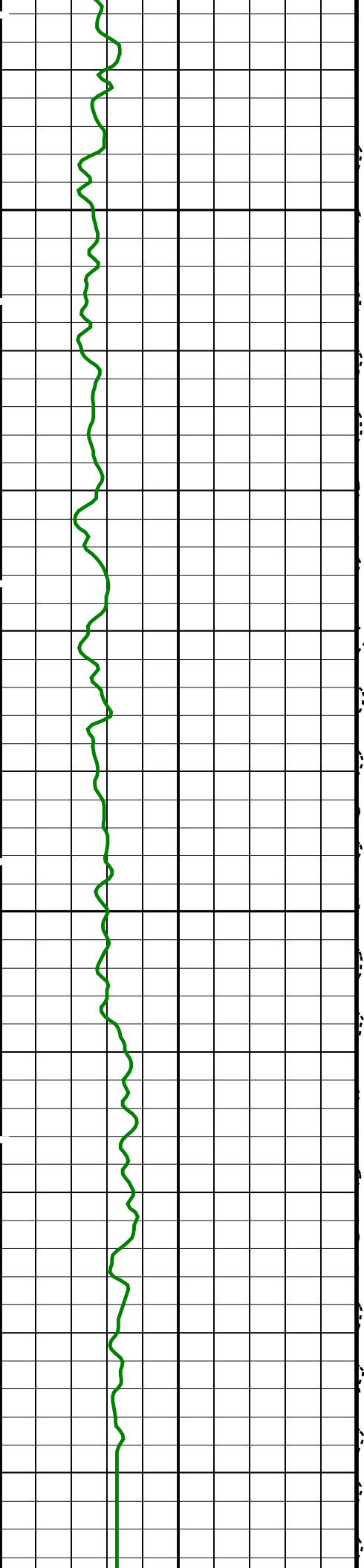


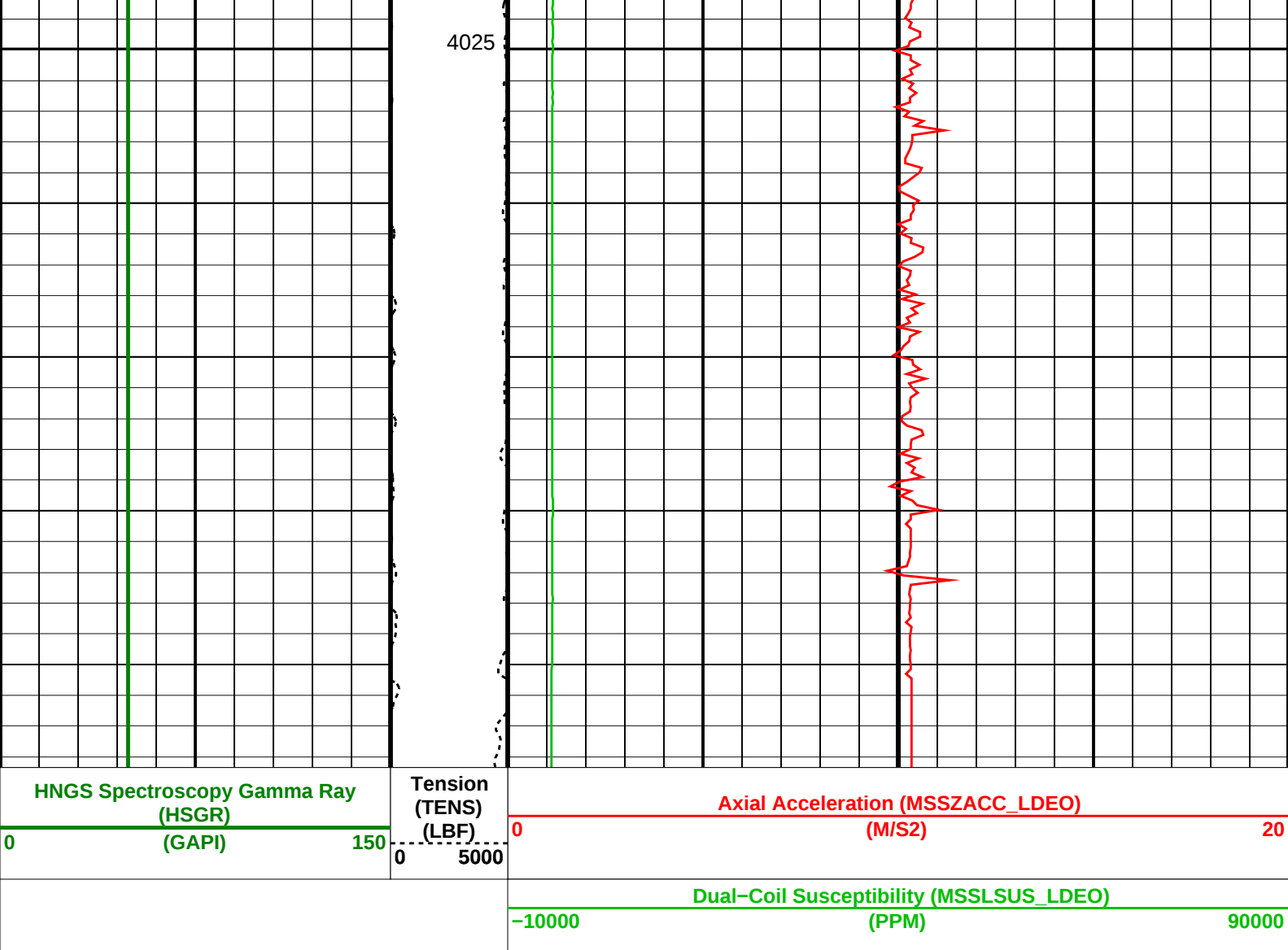
3875

3900









PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
BHS	HRLT-B: High Resolution Laterolog Array - B	
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
	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	BS
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00469139
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	1.01596
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01125
	EDTC-B: Enhanced DTS Cartridge	
BHS	Borehole Status	OPEN

GCSE	Generalized Caliper Selection	BS
BS	System and Miscellaneous	9.875 IN
DFD	Bit Size	1.05 G/C3
DO	Drilling Fluid Density	0.0 M
PP	Depth Offset for Playback	NORMAL
	Playback Processing	

Format: MSS_Logging	Vertical Scale: 1:200	Graphics File Created: 15-Nov-2022 05:19
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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	SKK-5169-EDTCB		

Input DLIS Files					
DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	15-Nov-2022 05:18	4048.4 M	3442.7 M
Output DLIS Files					
DEFAULT	MSS_LDEO_HRLA_LDL_014PUP	FN:15	PRODUCER	15-Nov-2022 05:19	
RTB	MSS_LDEO_HRLA_LDL_014PUP	FN:16	PRODUCER	15-Nov-2022 05:19	



Main Pass

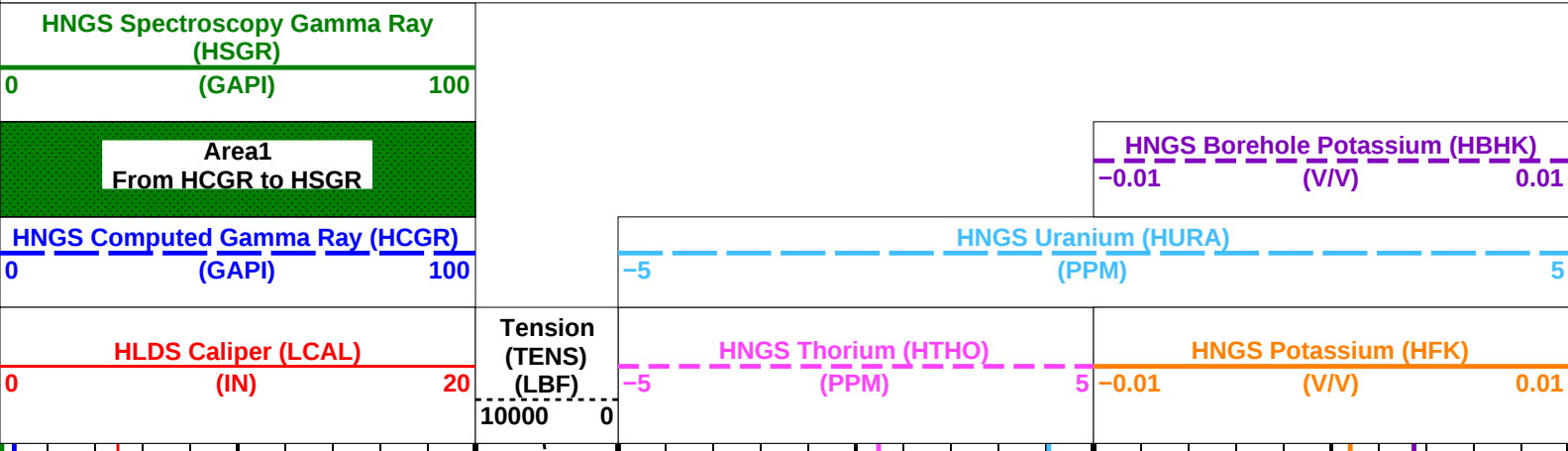
MAXIS Field Log	
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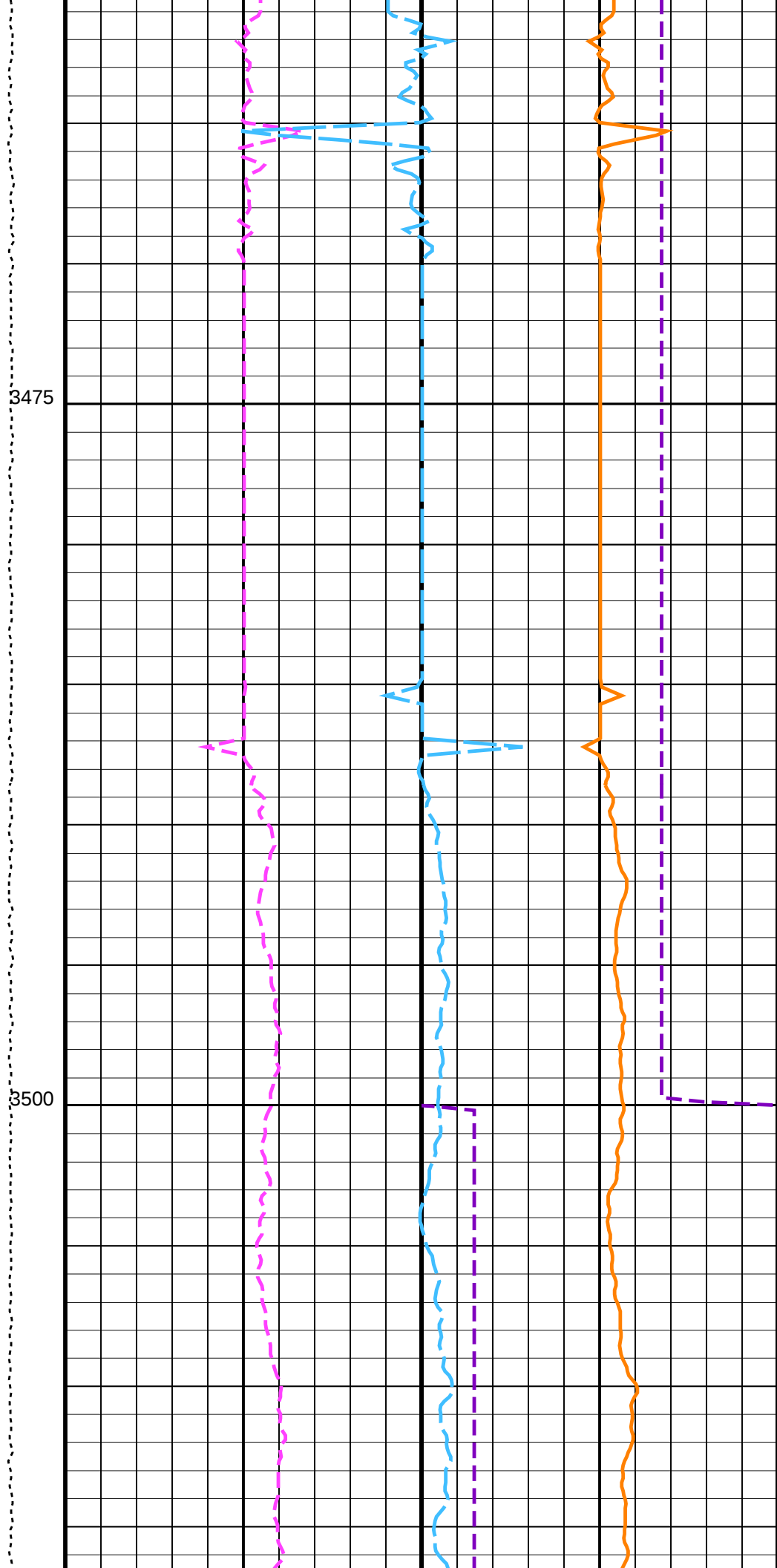
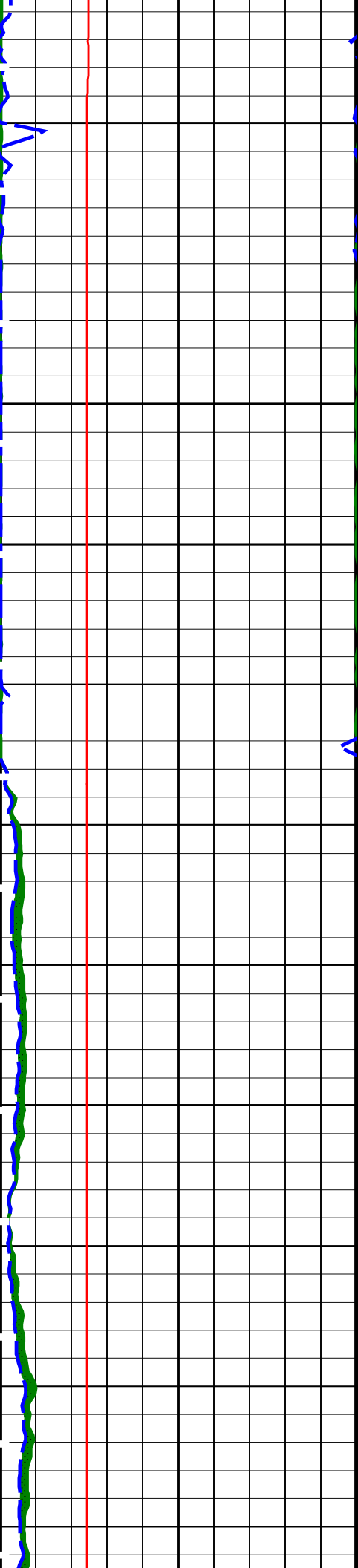
Company: International Ocean Discovery Program	Well: Expedition 397, Site U1587C
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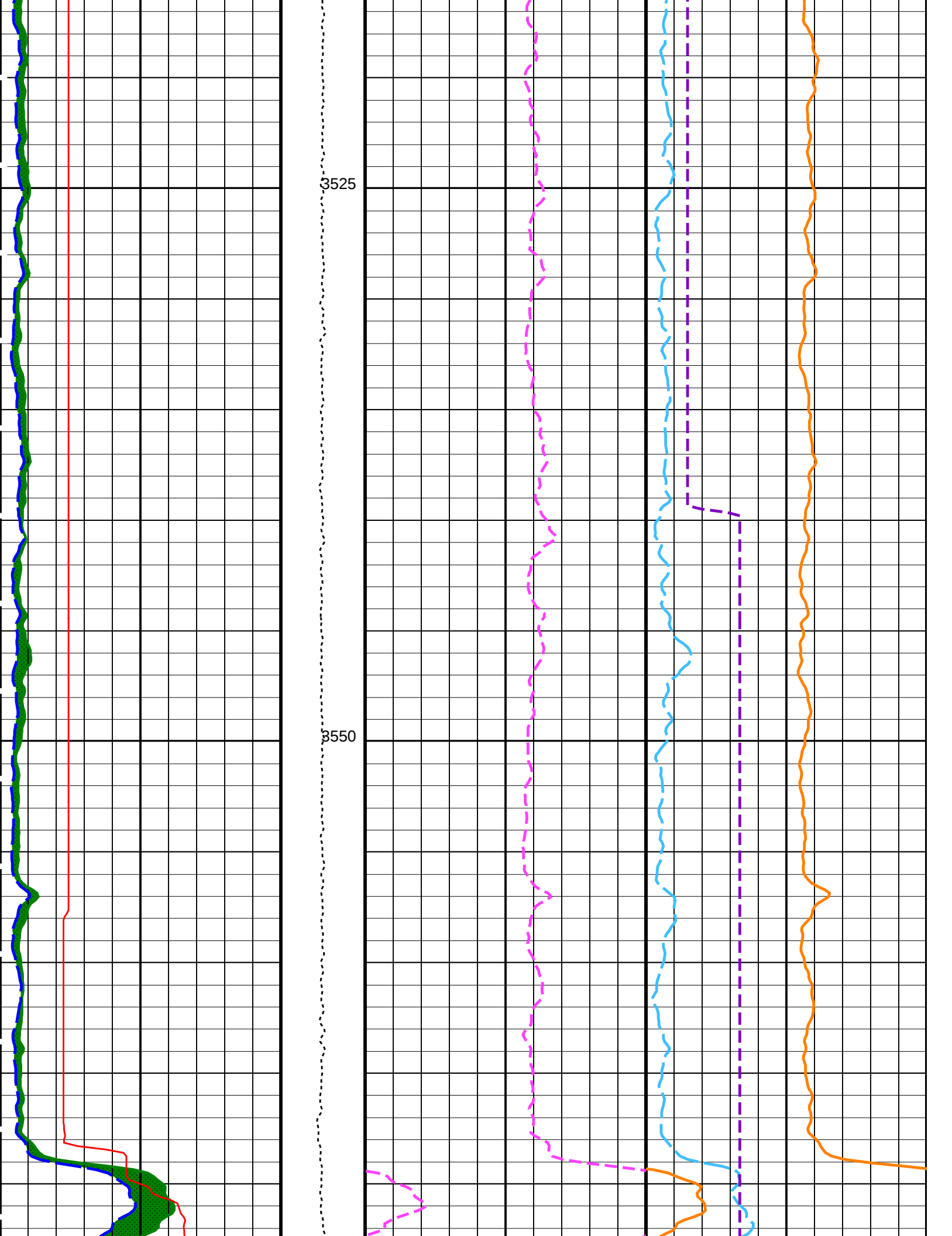
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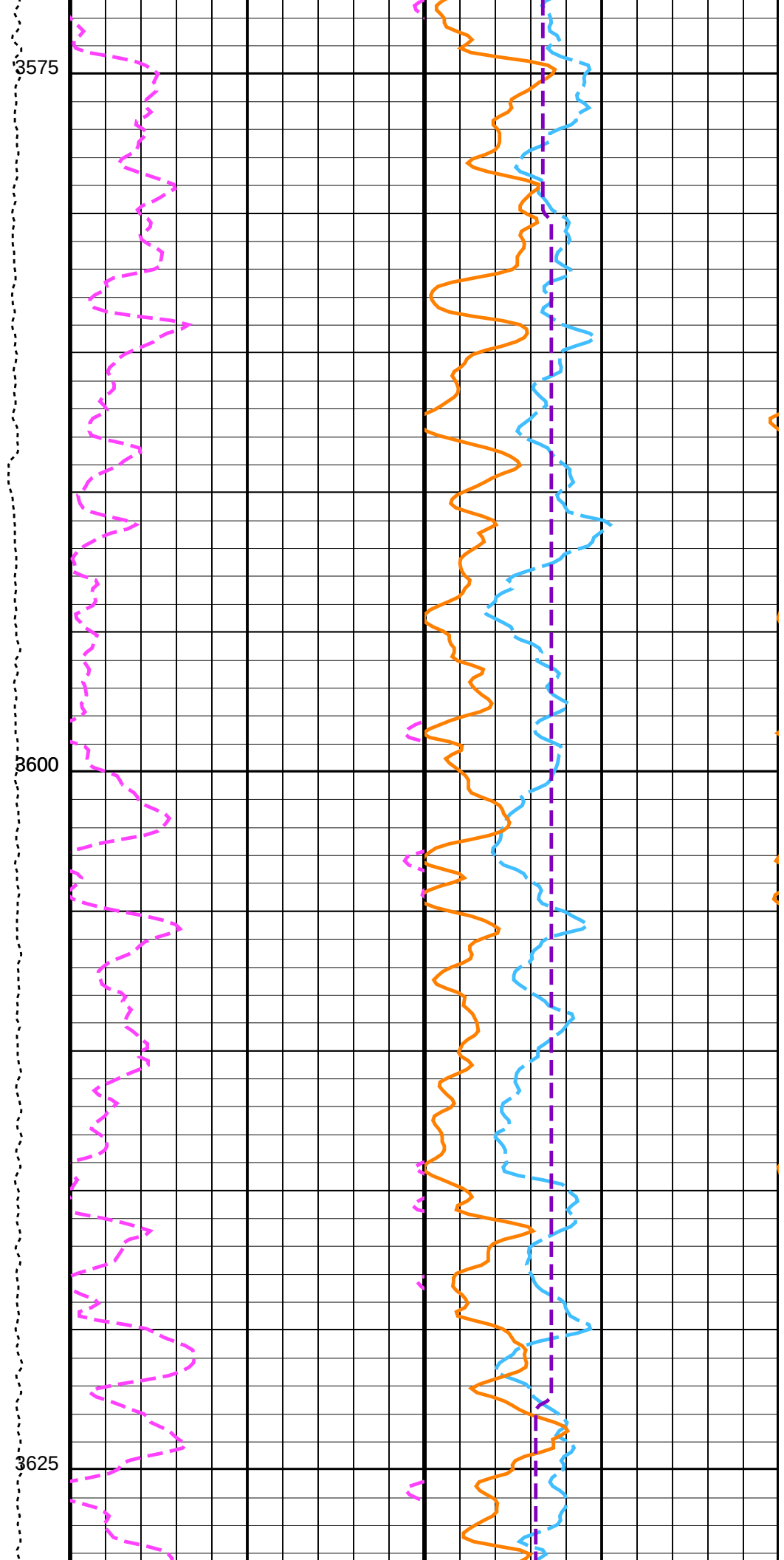
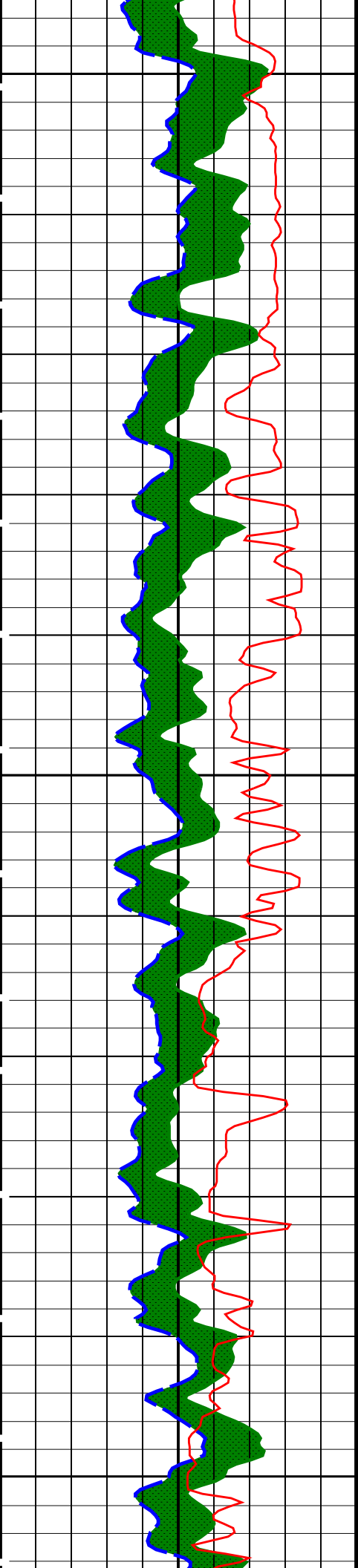
OP System Version: 19C0-187			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

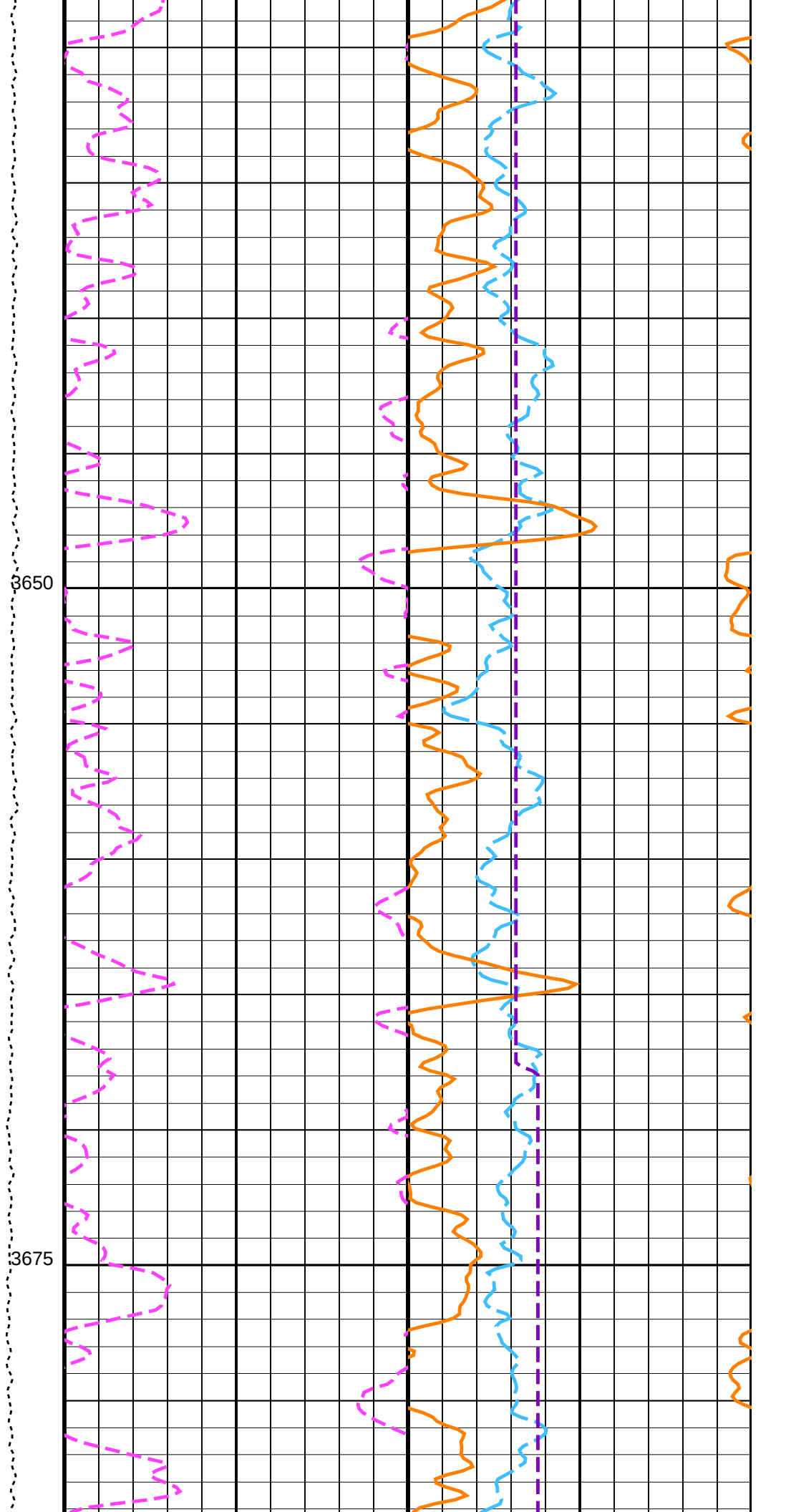
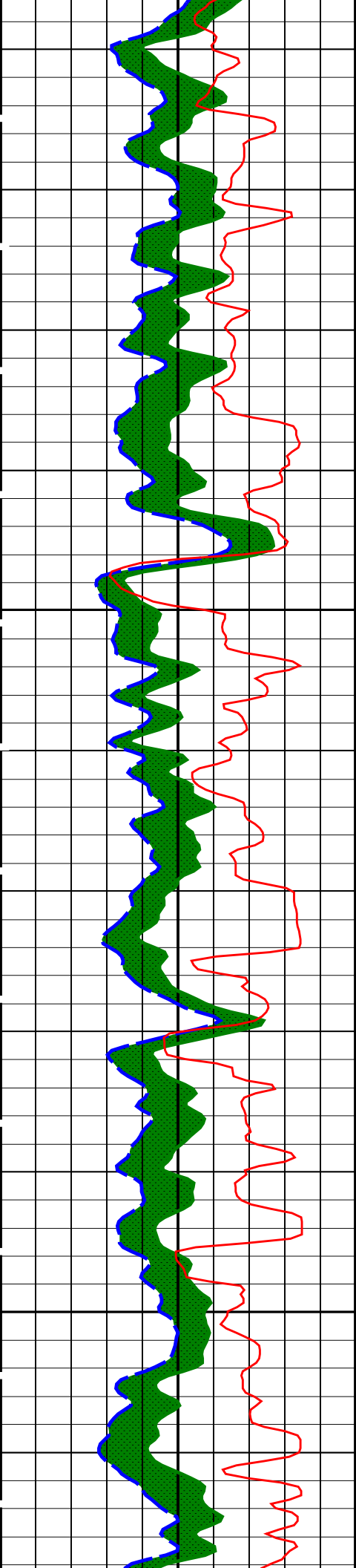
PIP SUMMARY	
Time Mark Every 60 S	

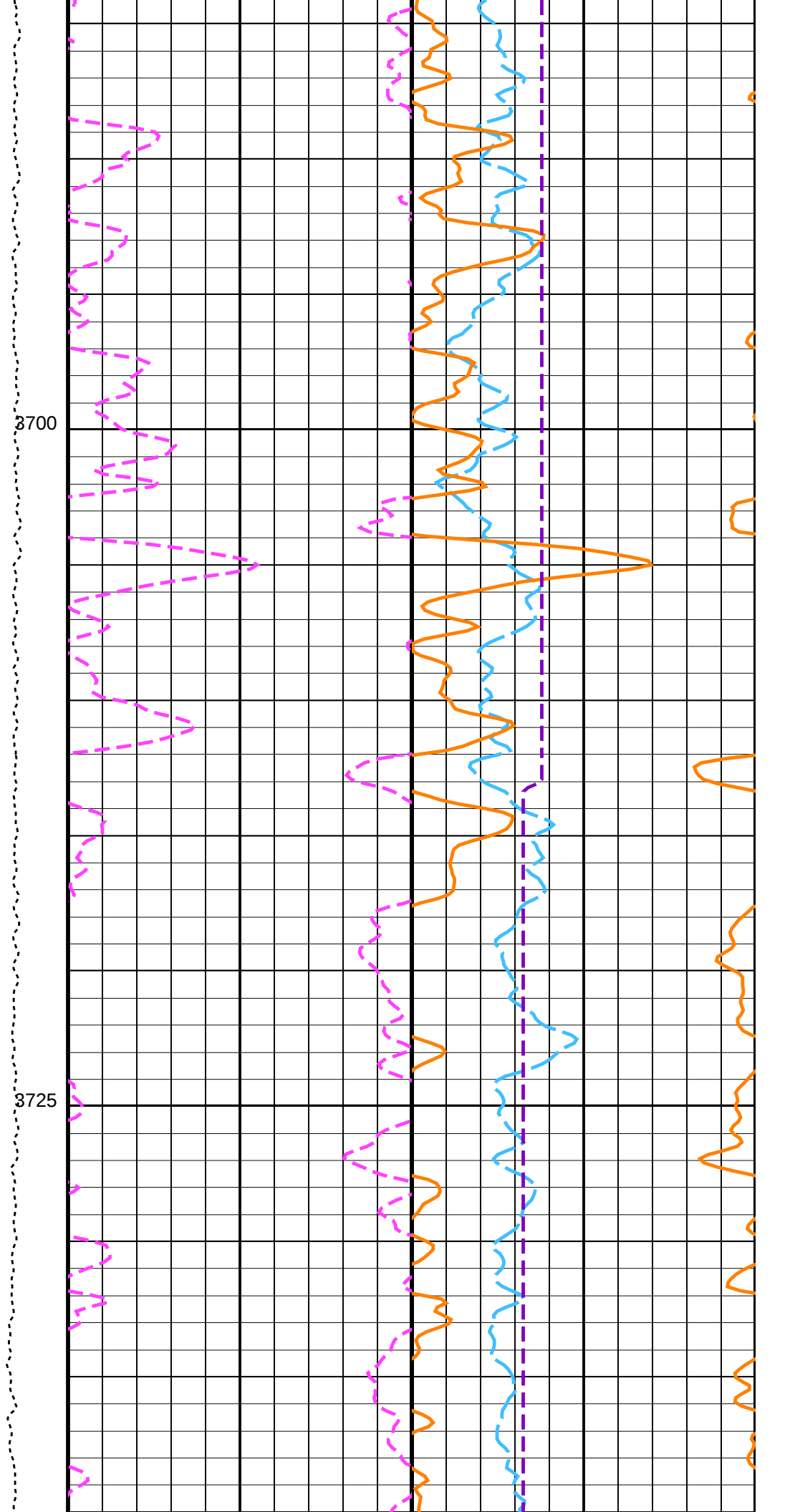
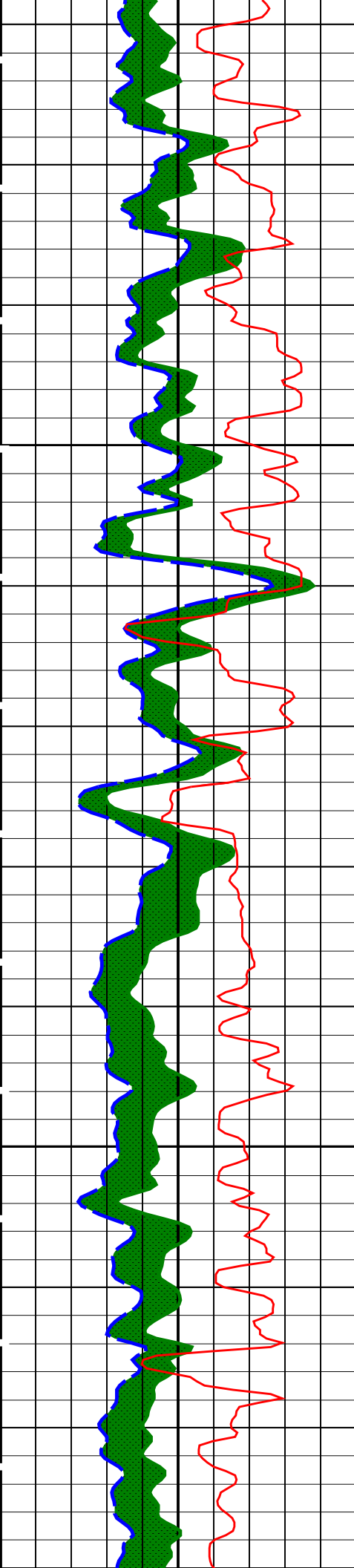


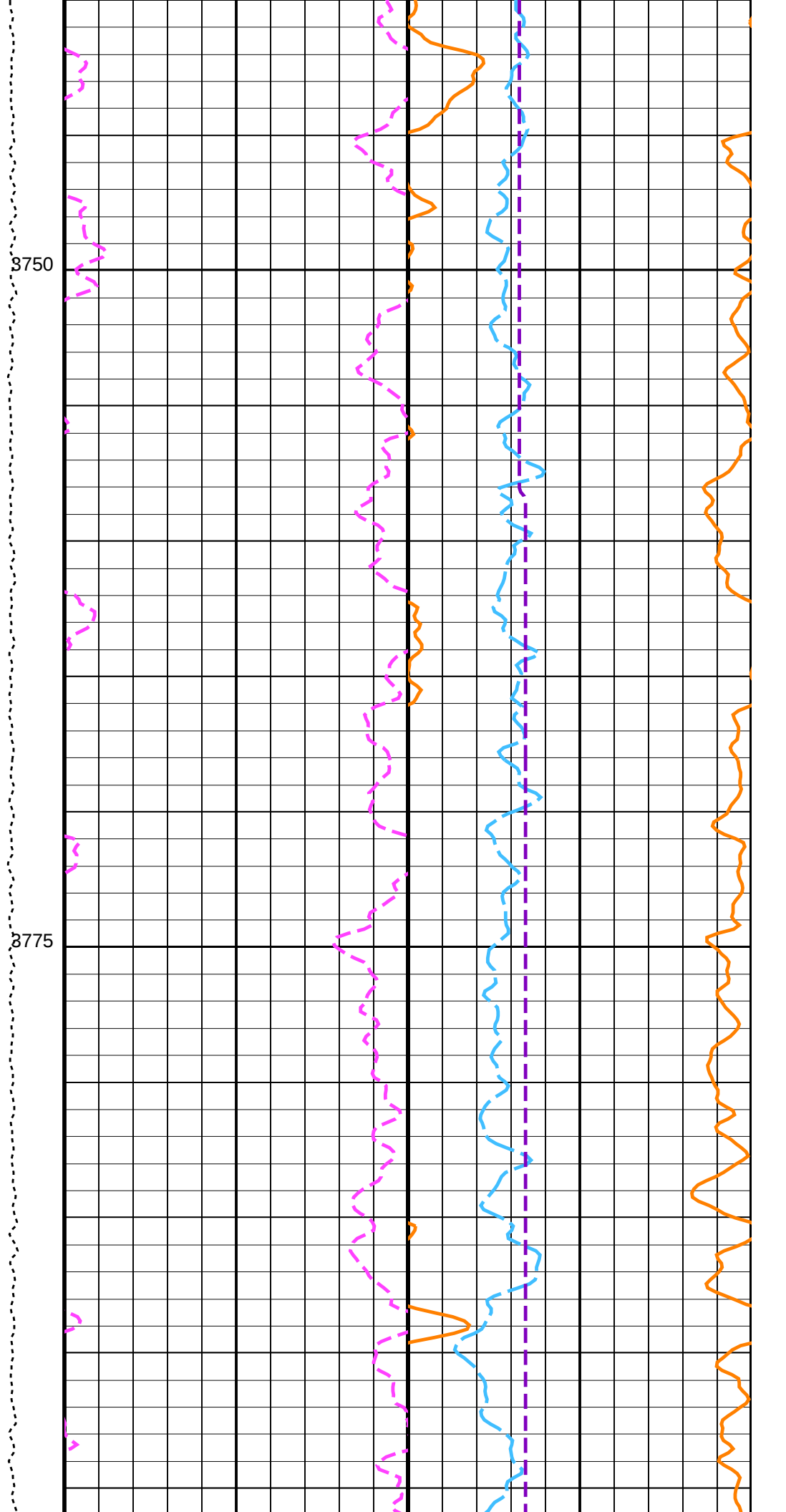
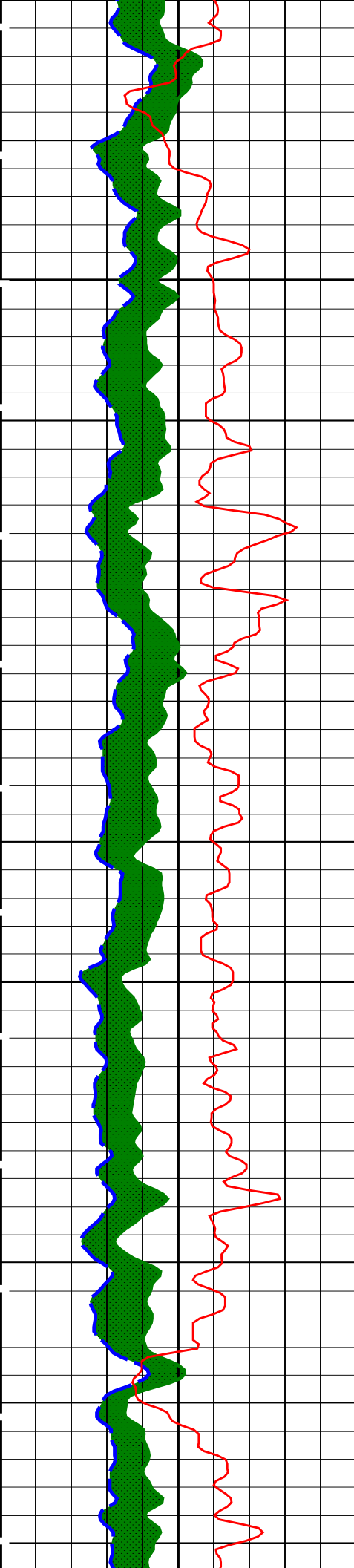


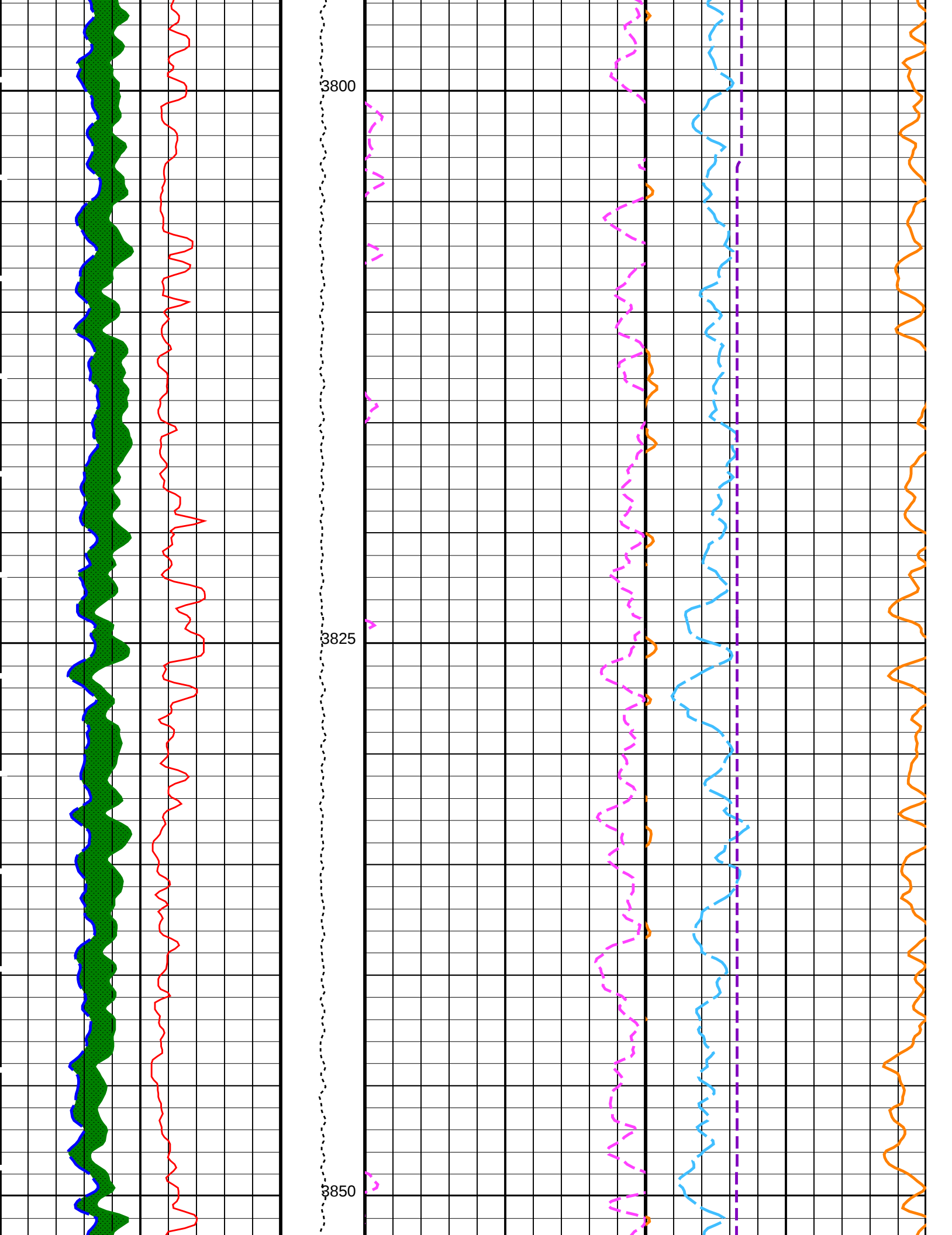


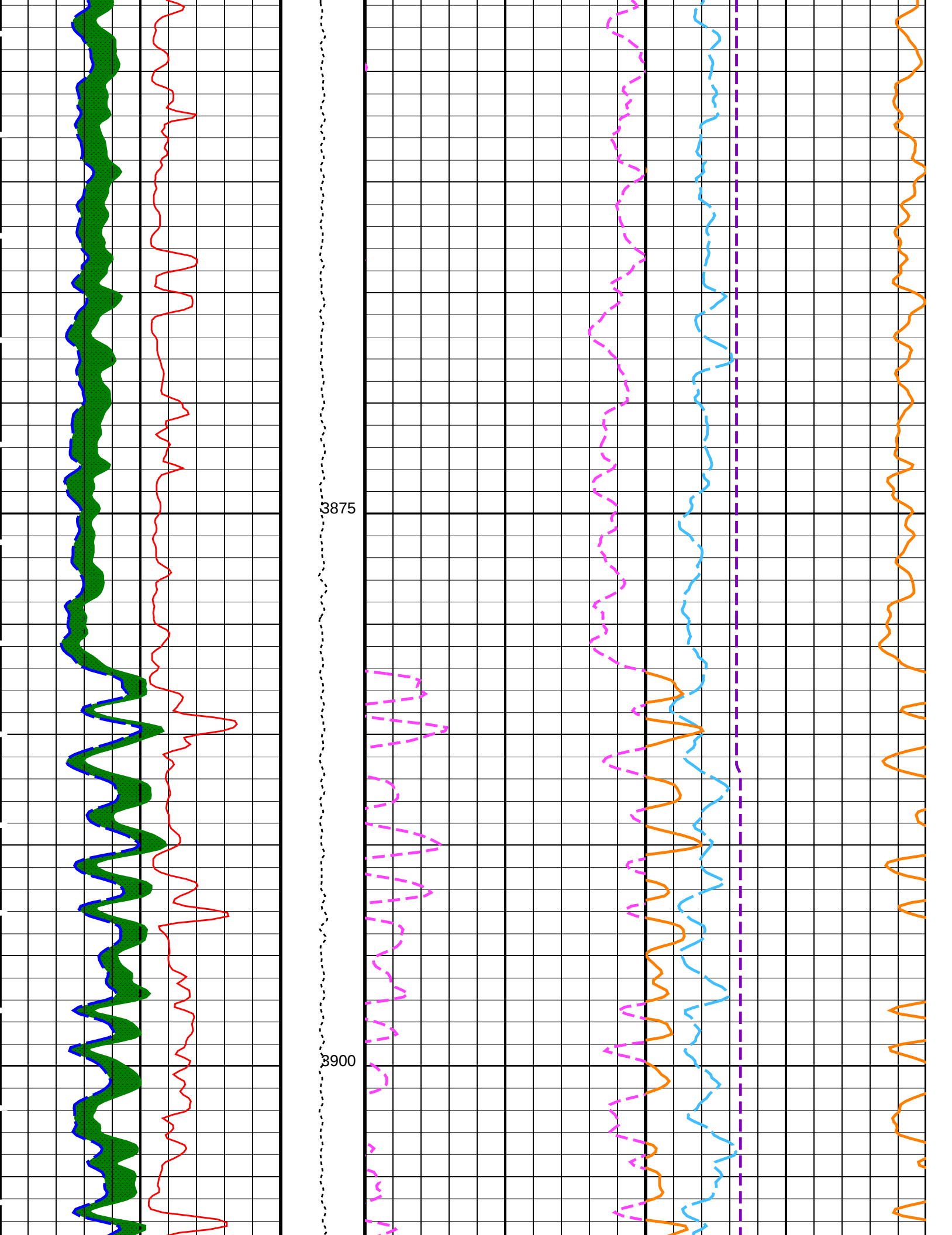


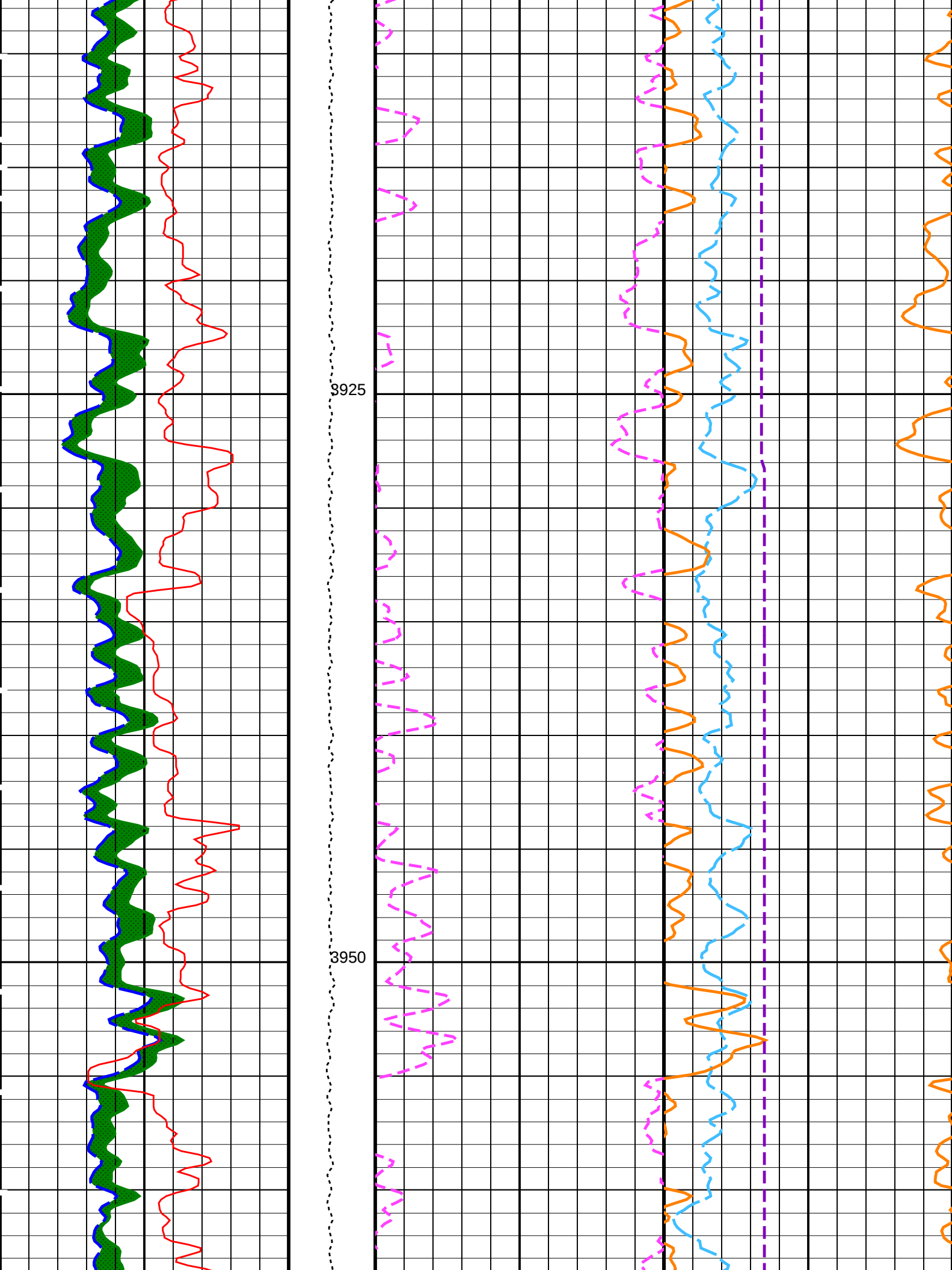


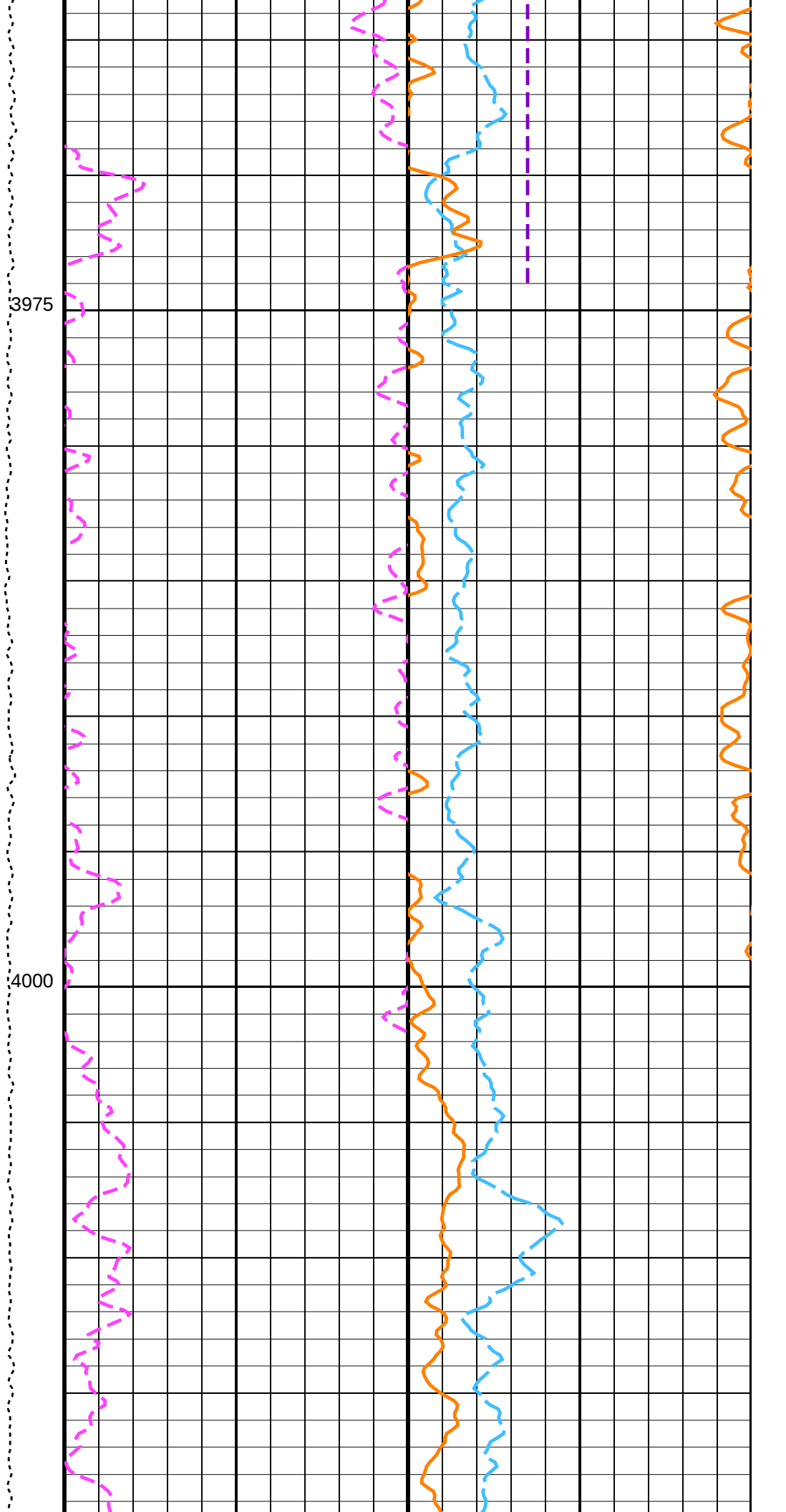
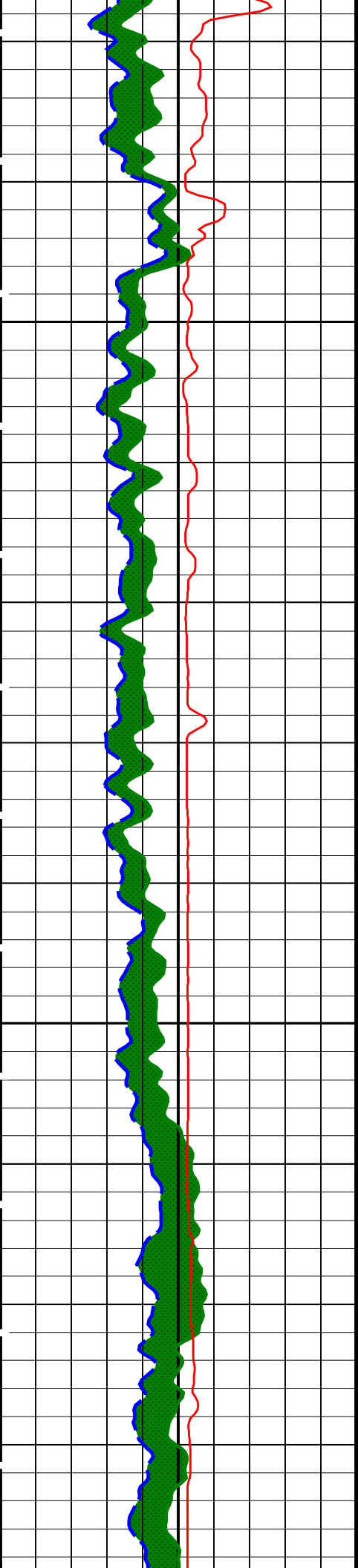


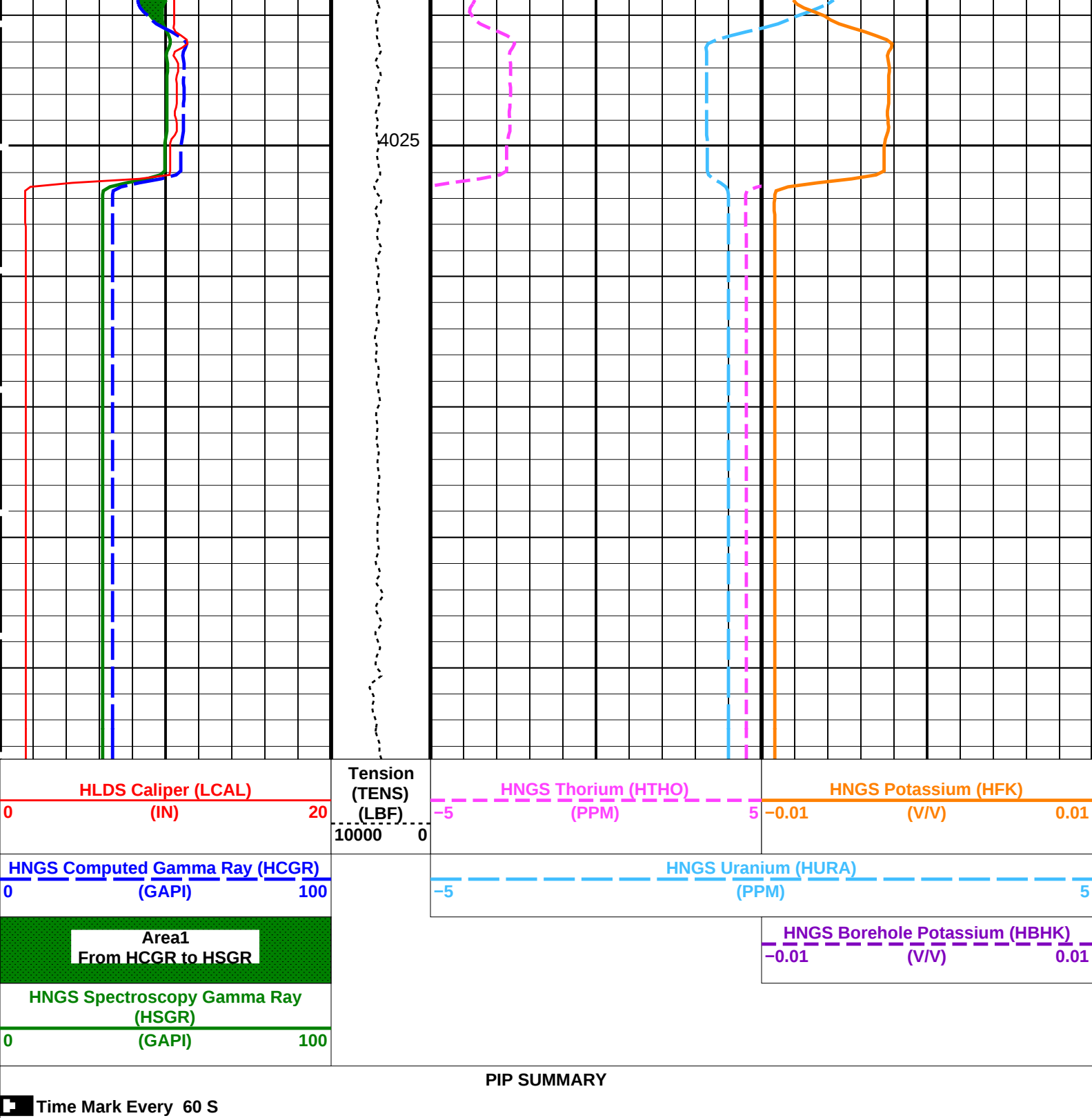






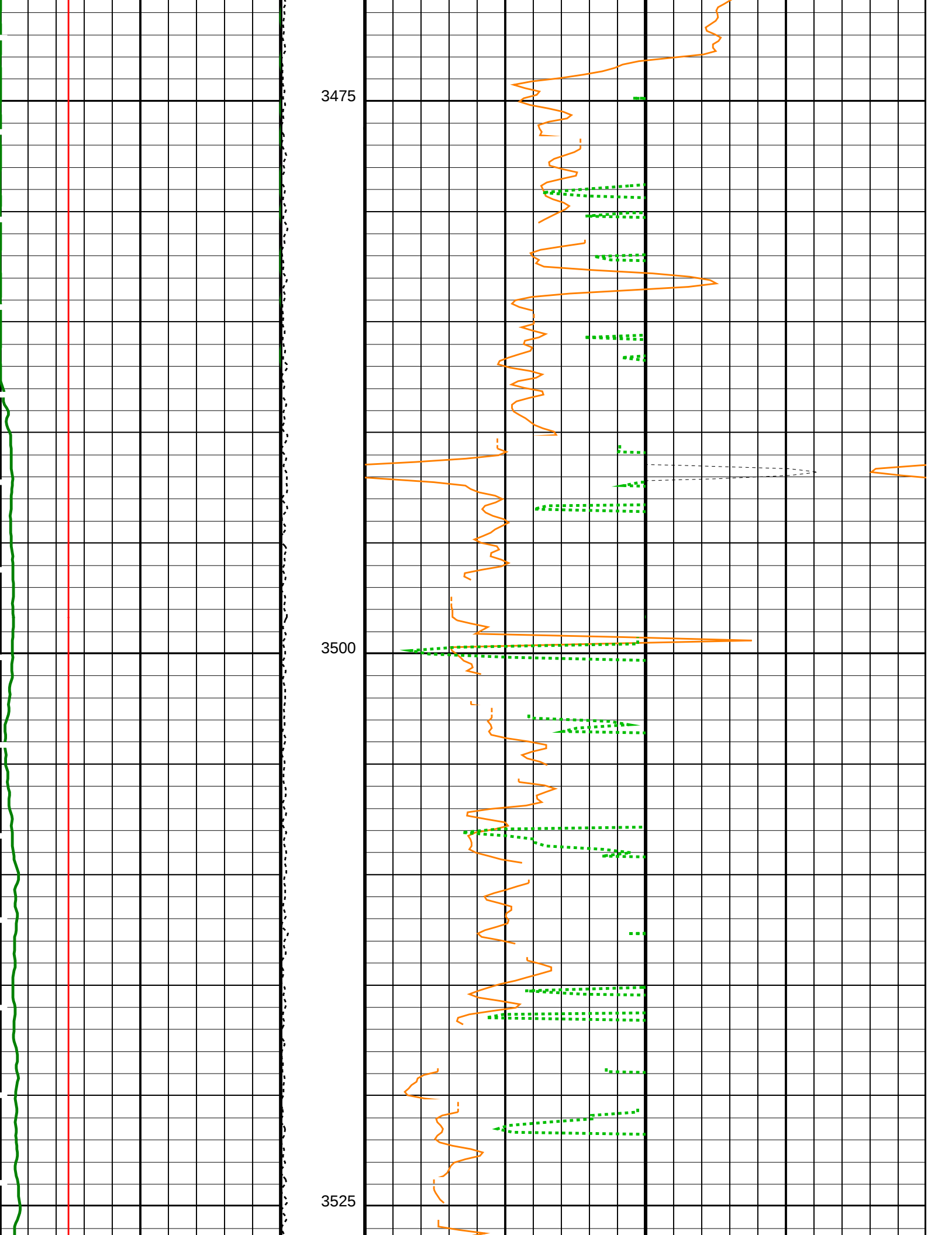


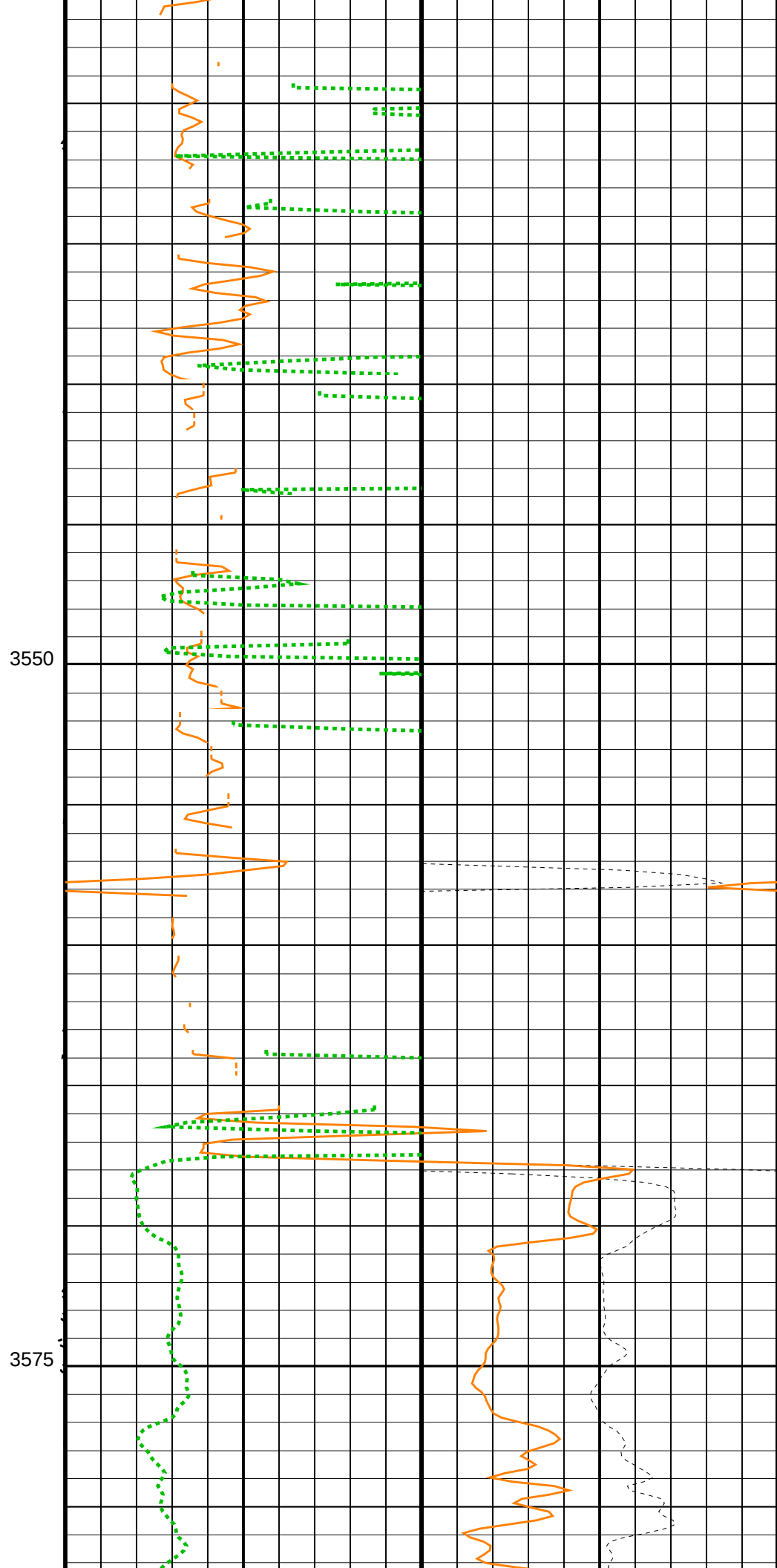
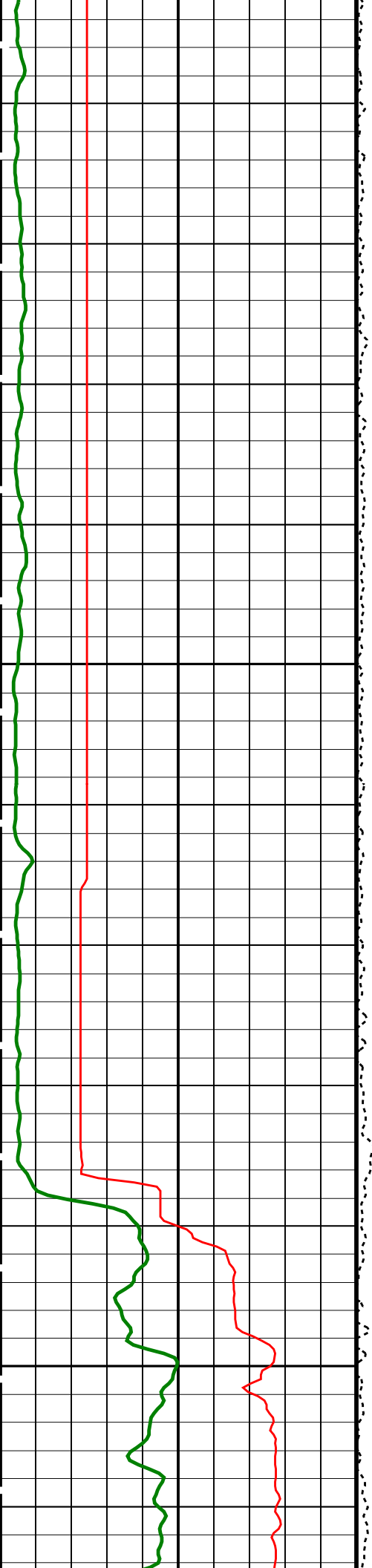


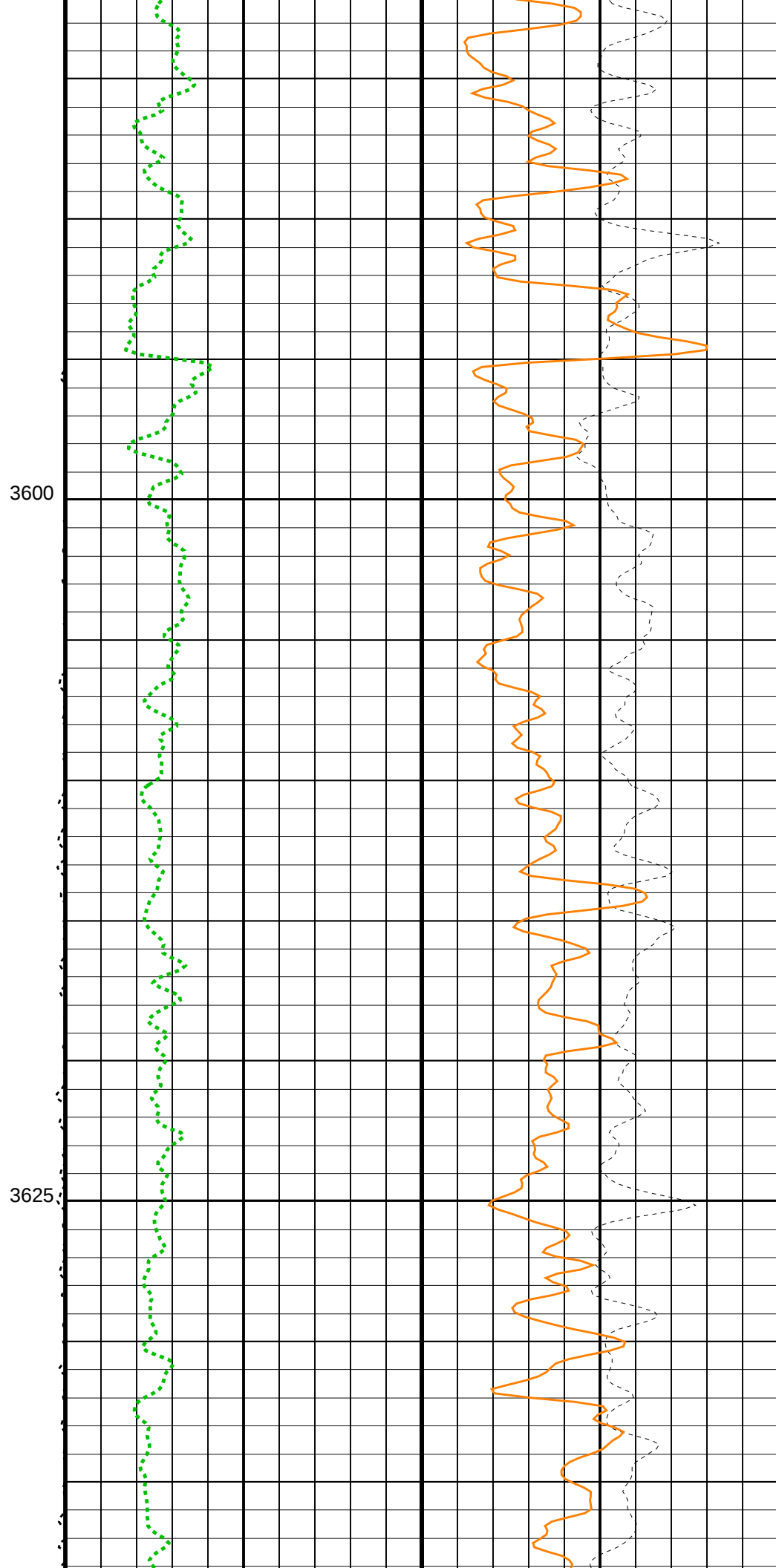
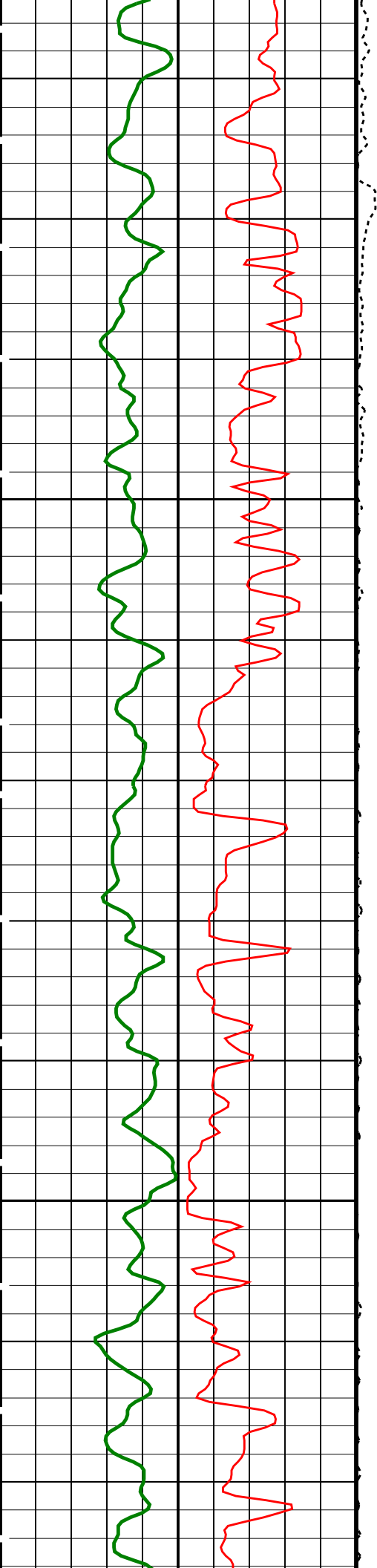


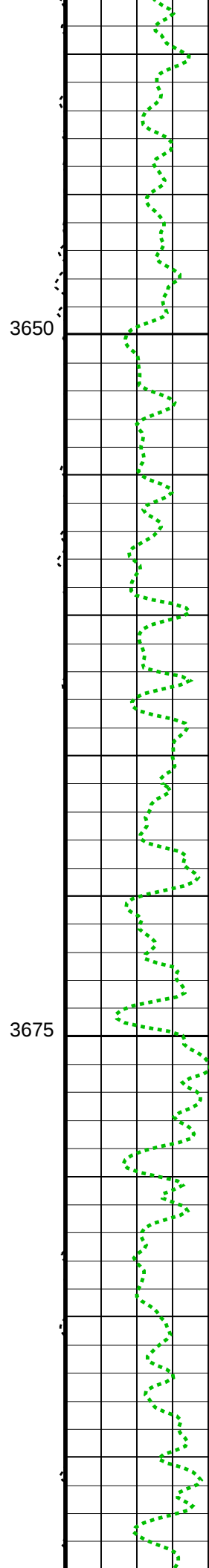
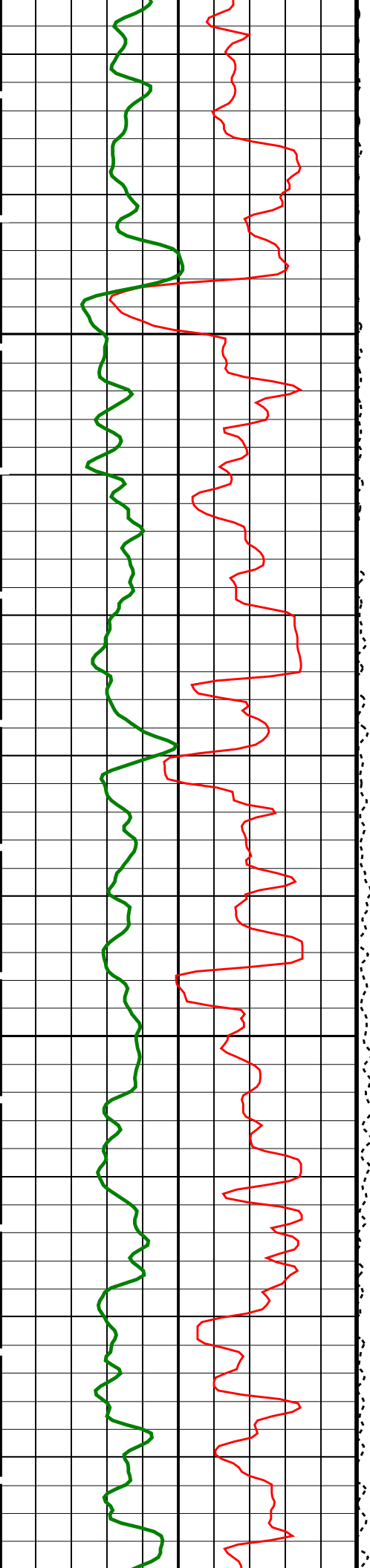
Parameters

DLIS Name	Description	Value
BHS	HRLT-B: High Resolution Laterolog Array - B	
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
BHS	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



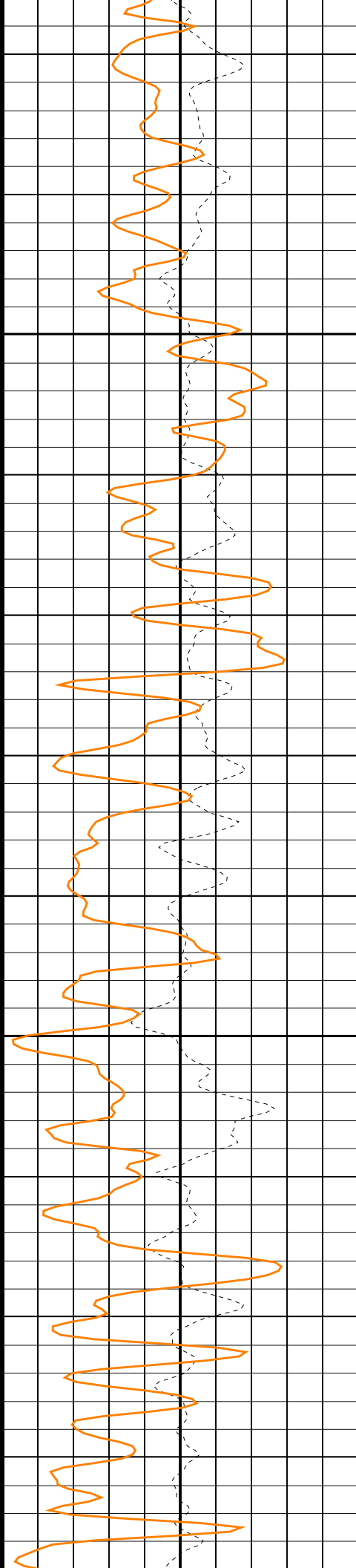


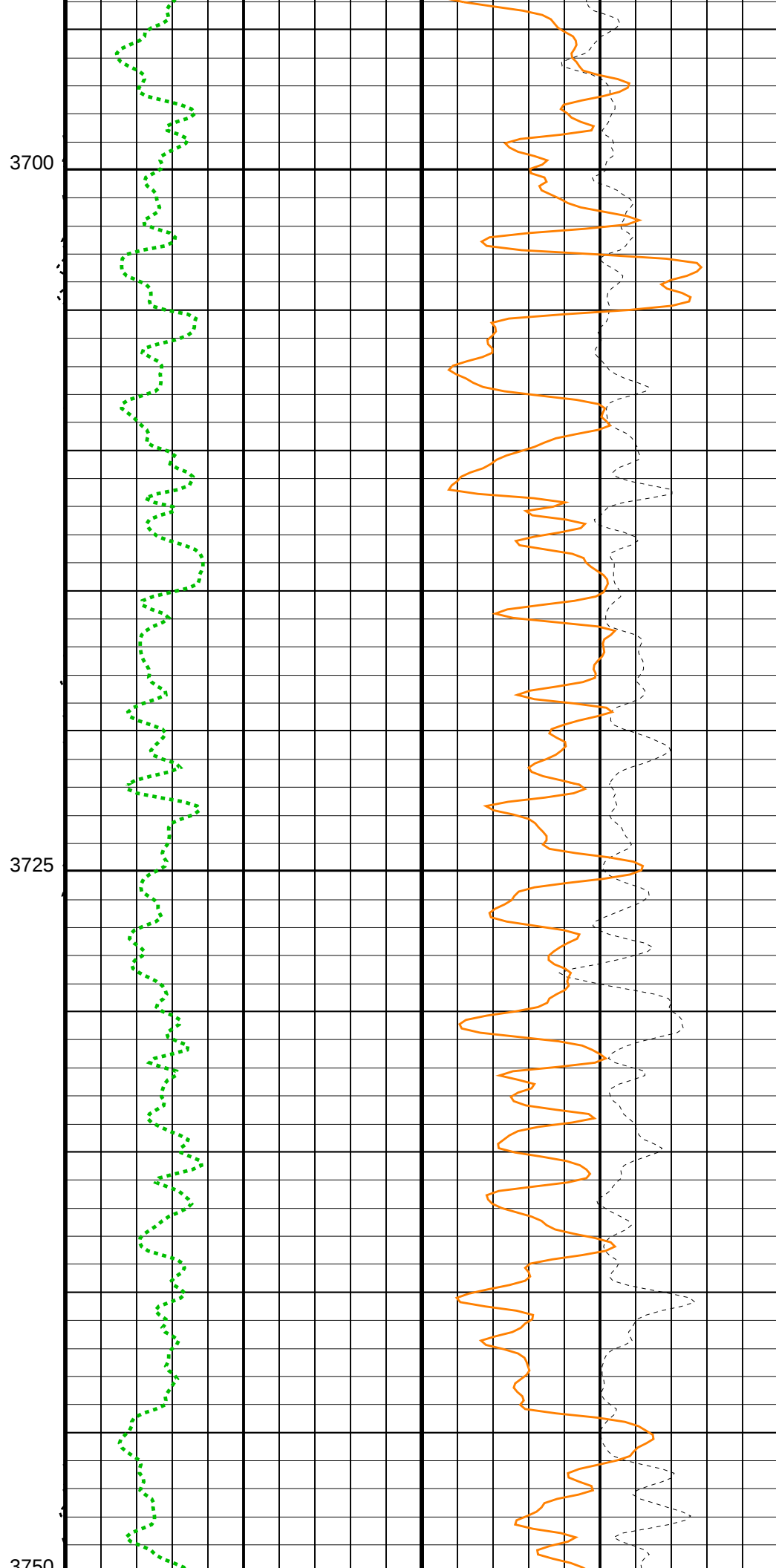
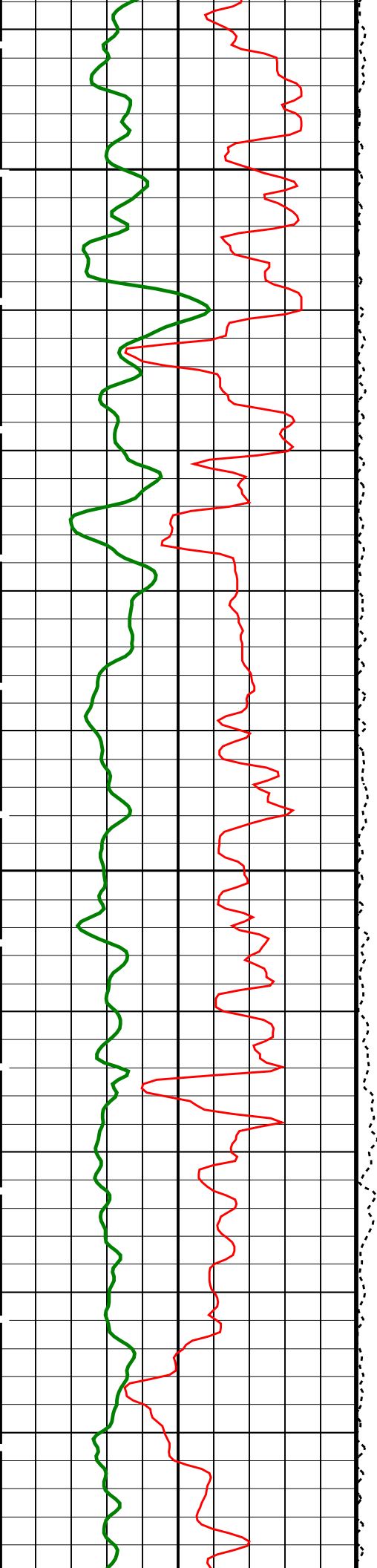


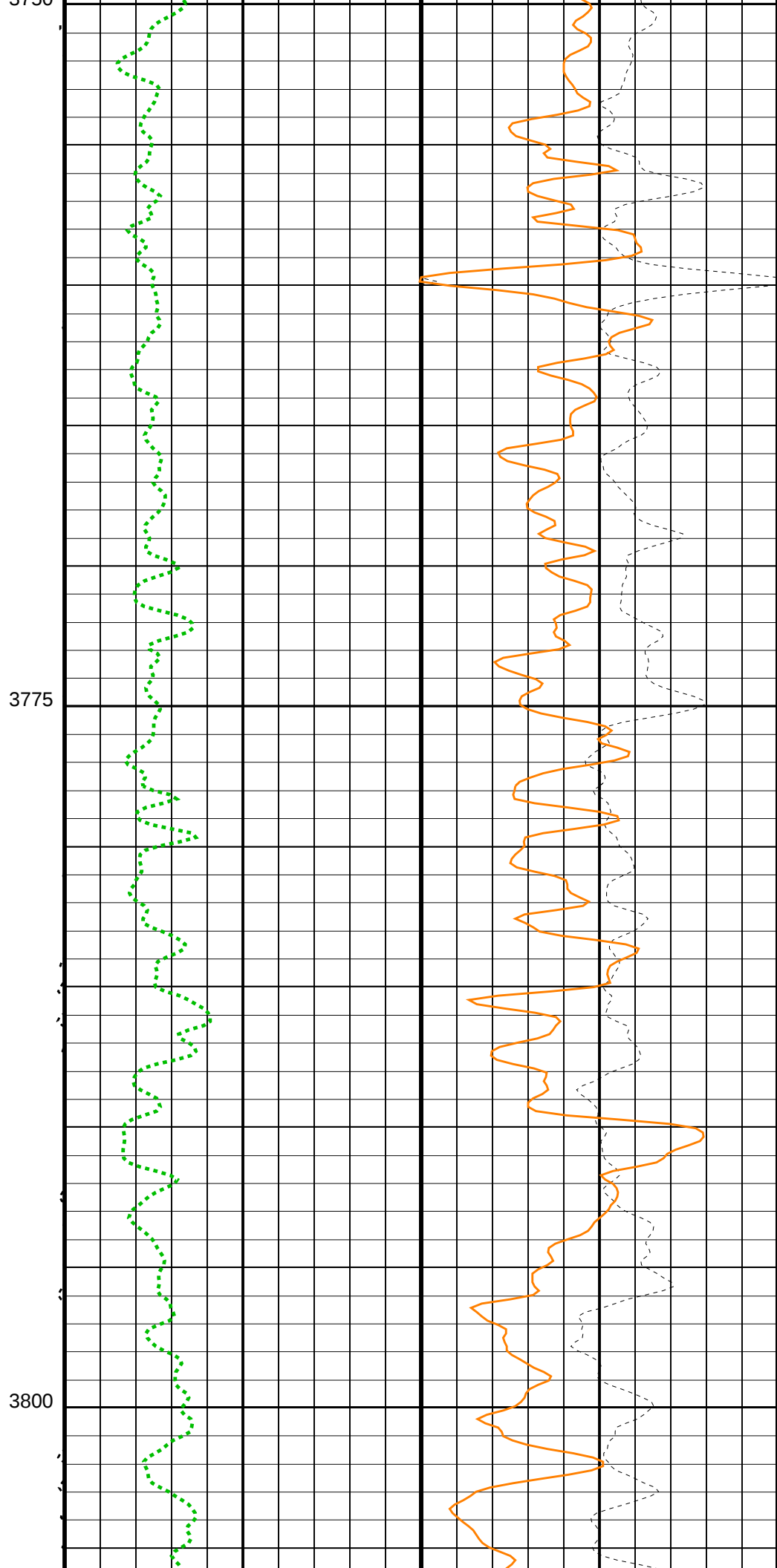
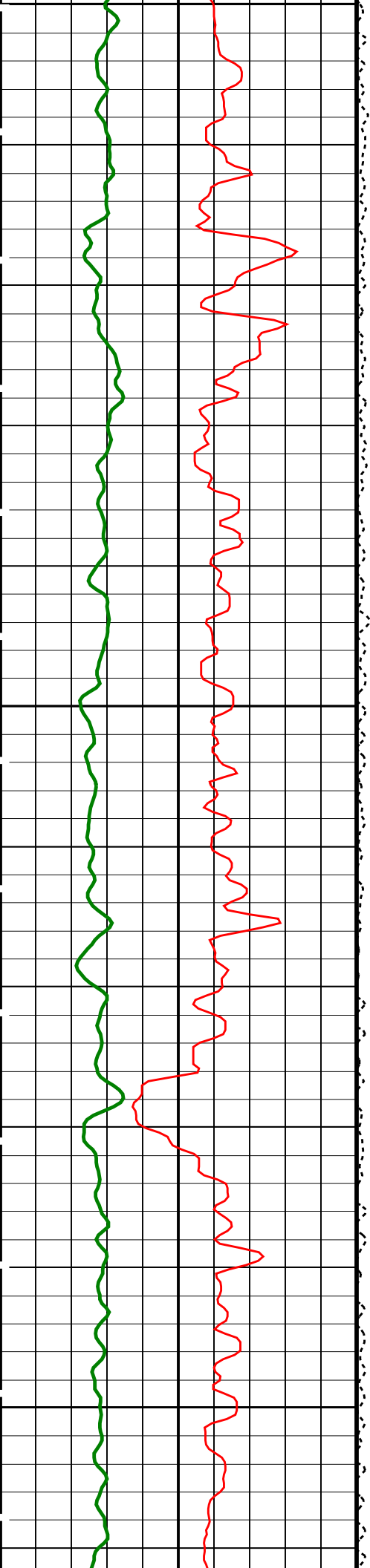


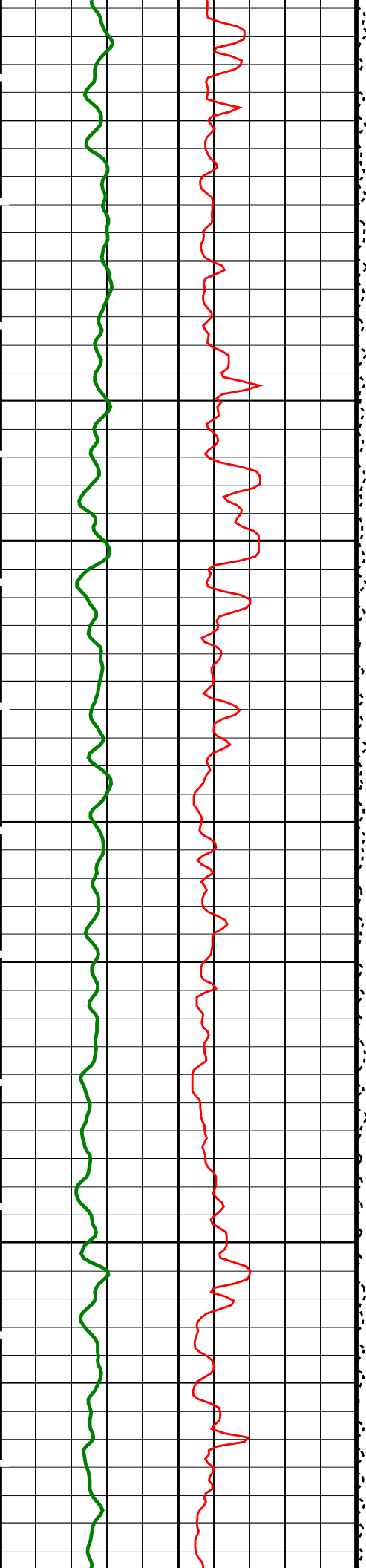
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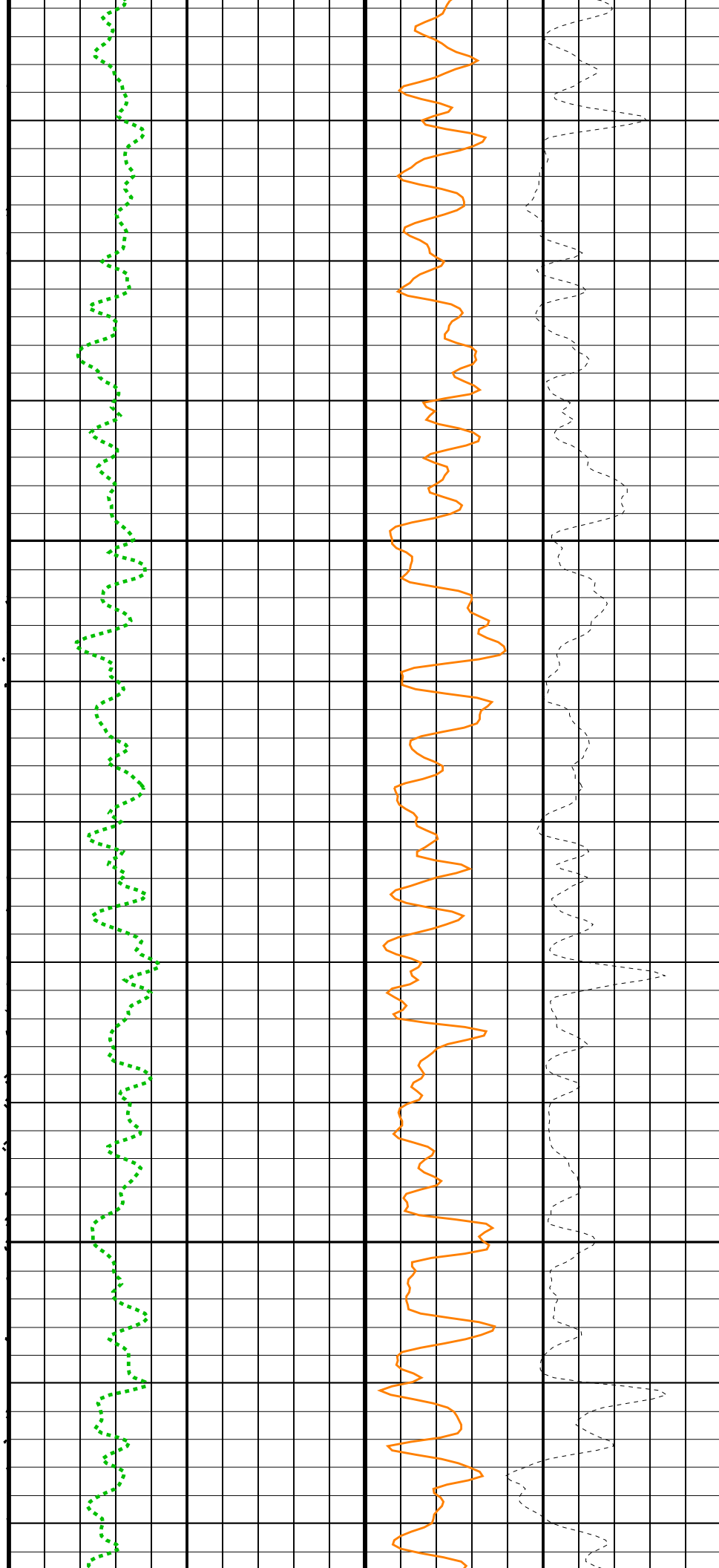


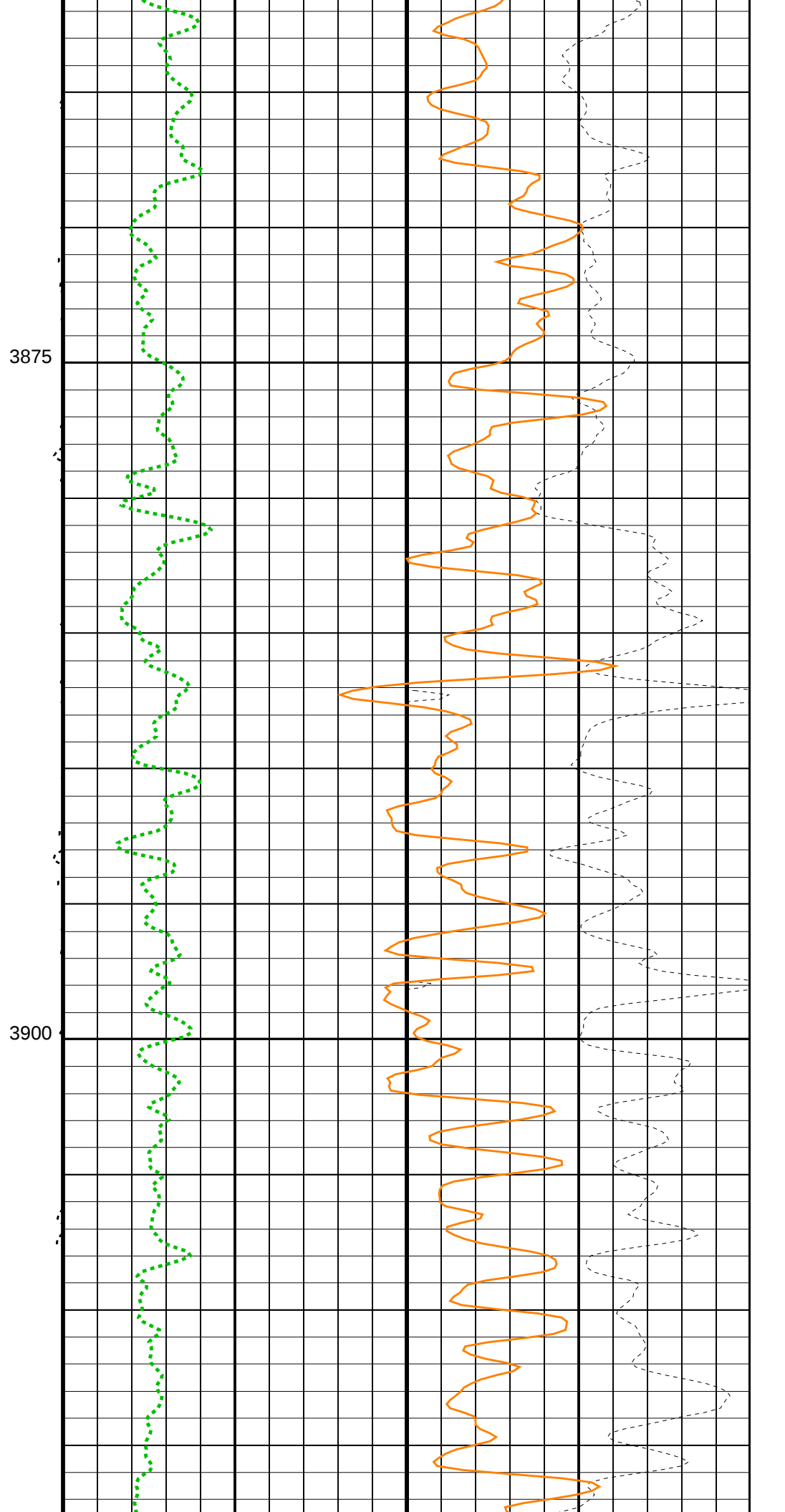
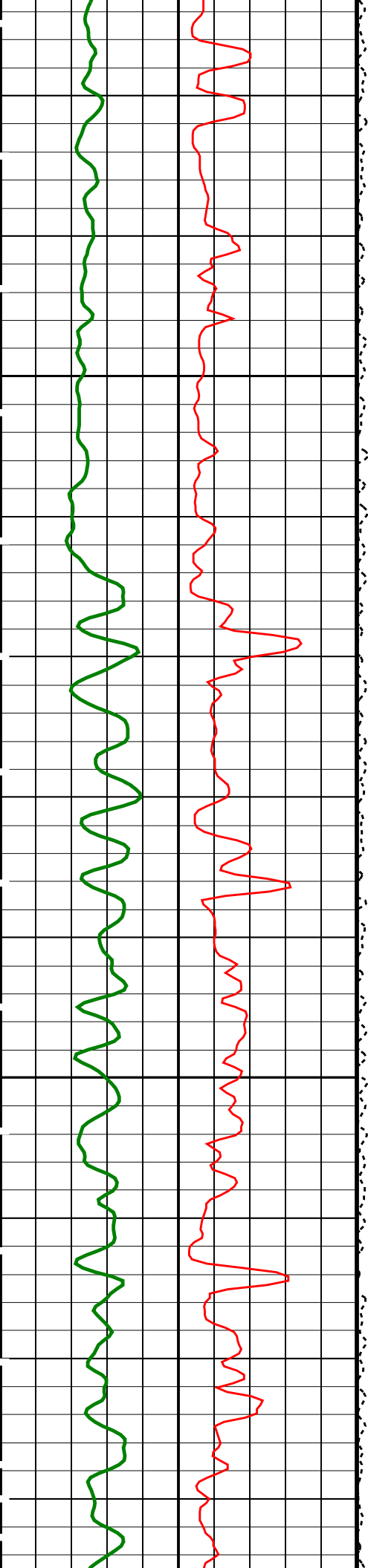


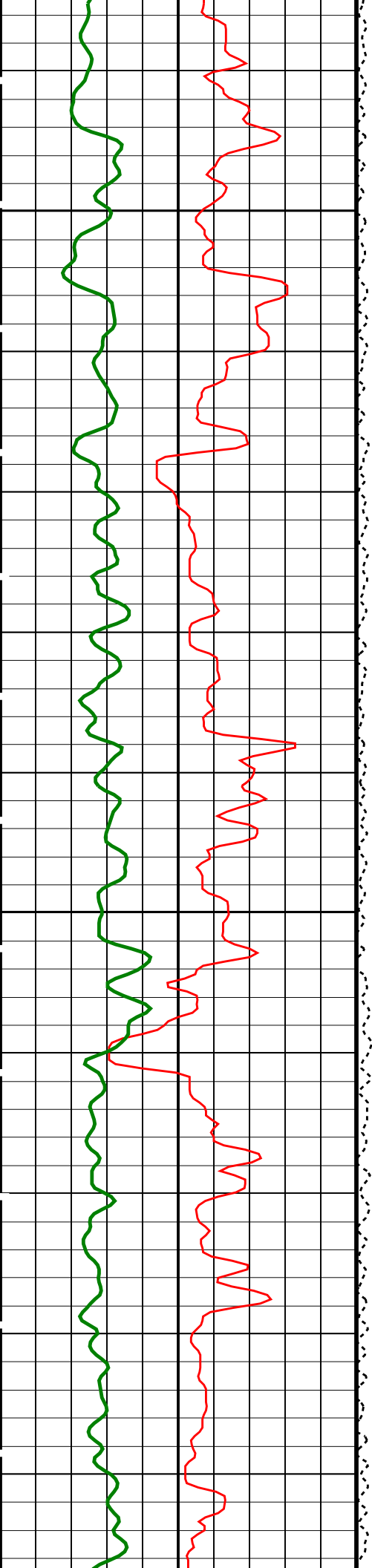


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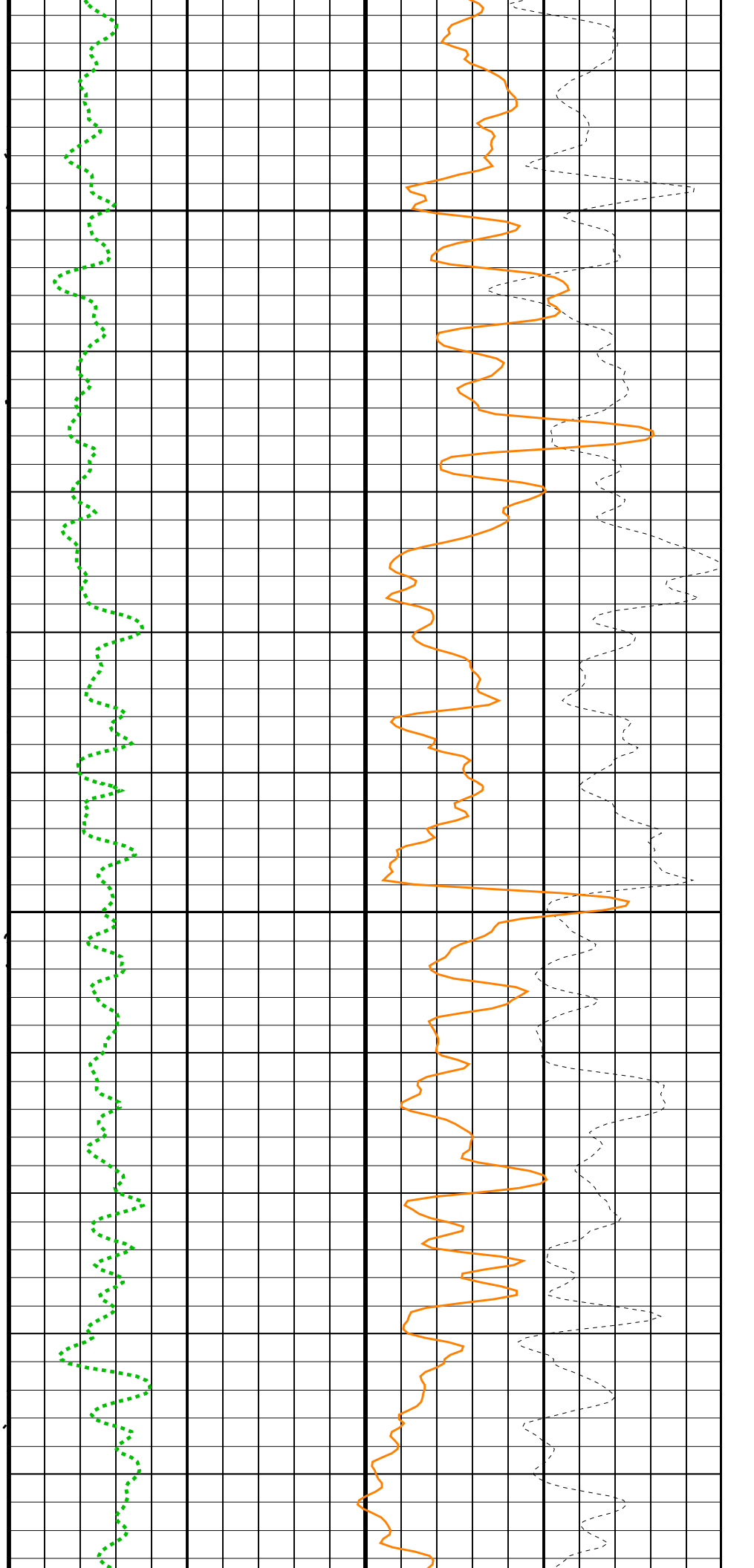


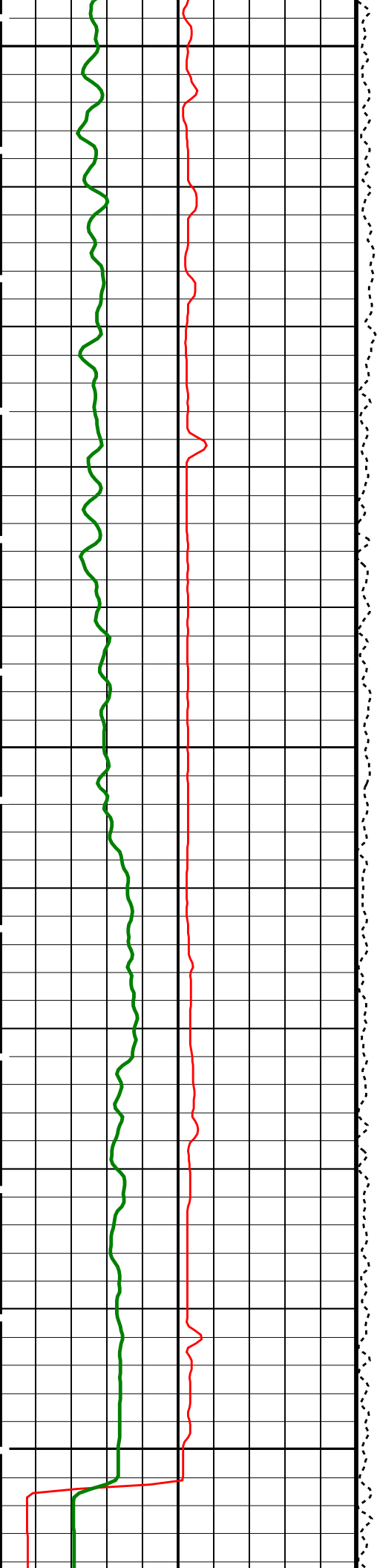




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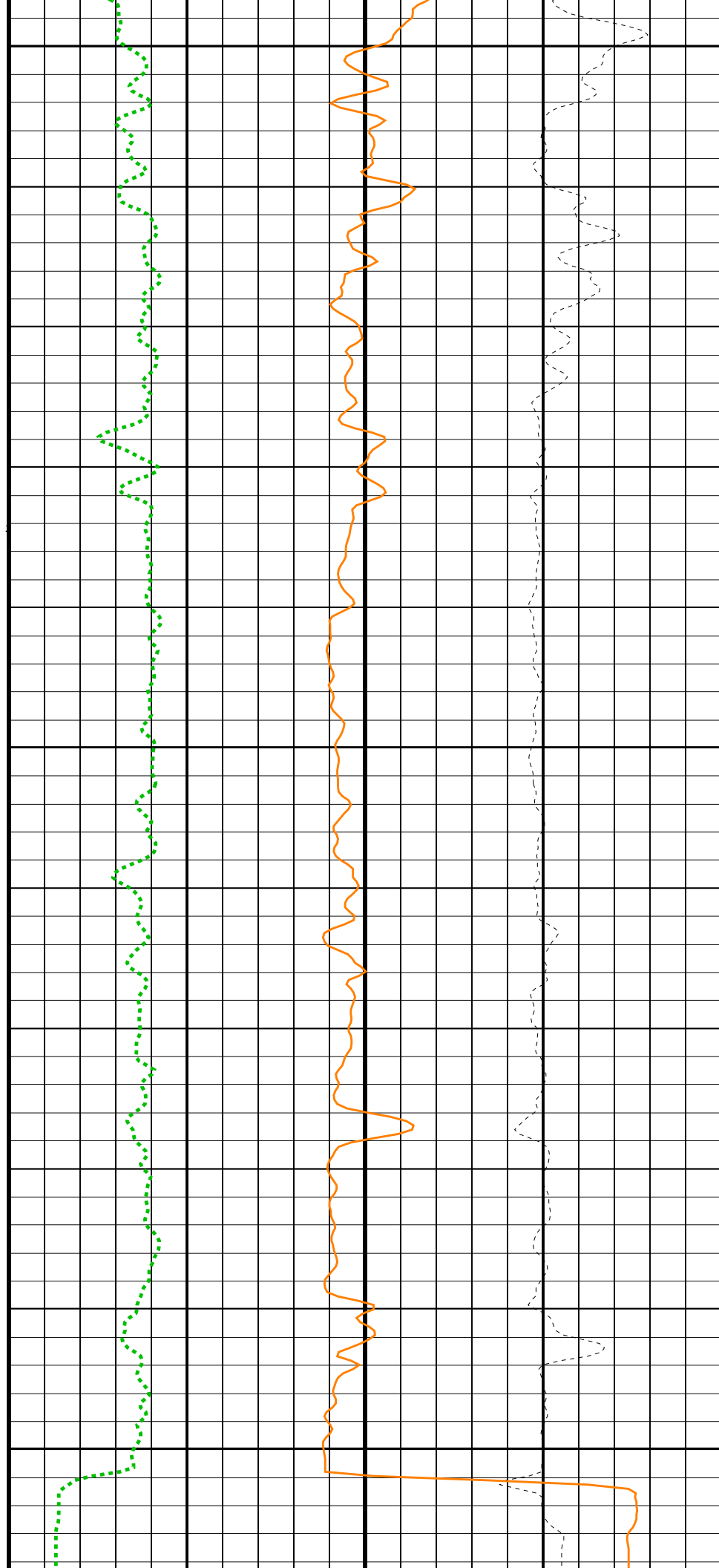


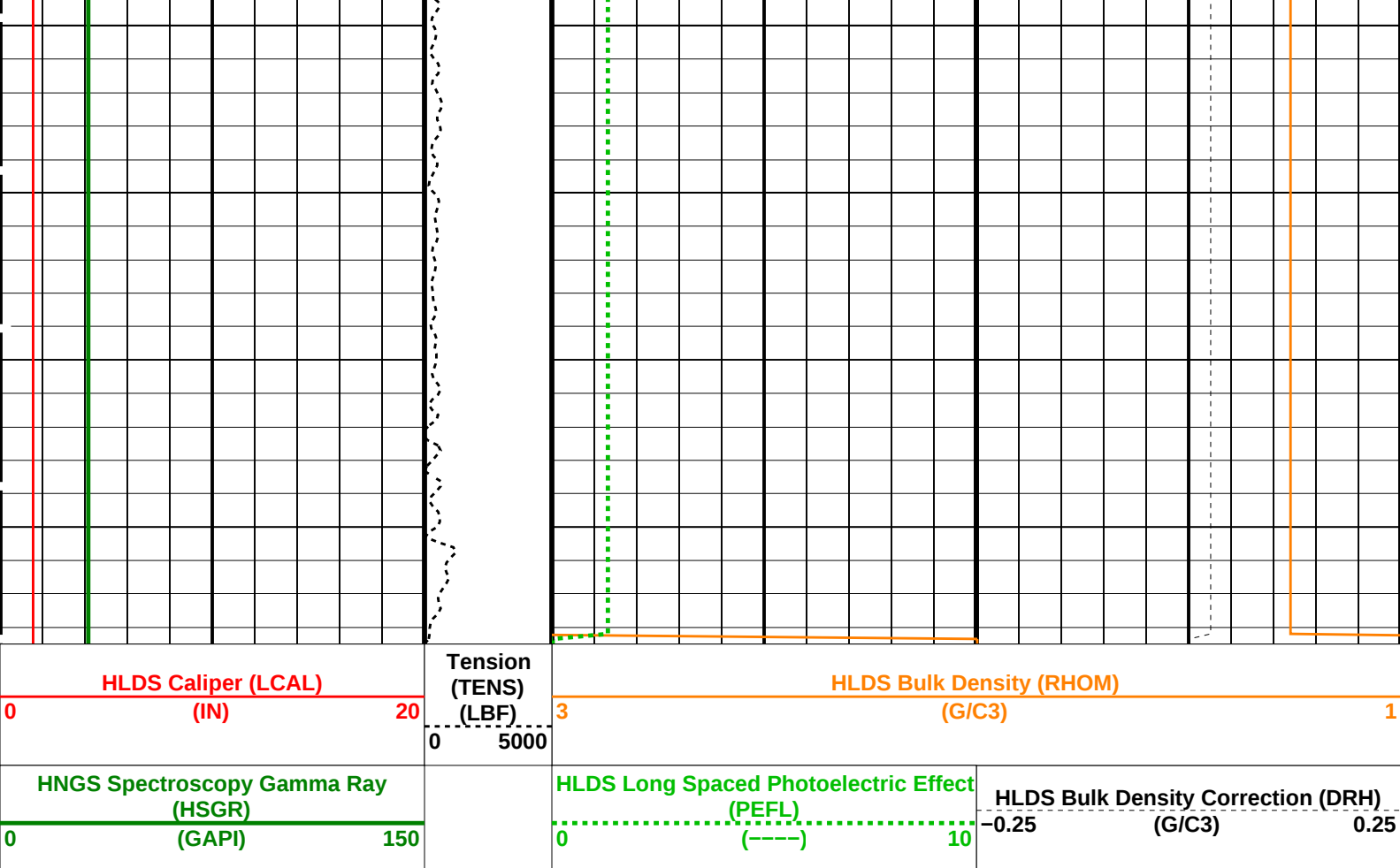


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HLDS Caliper (LCAL)		Tension (TENS) (LBF)	HLDS Bulk Density (RHOM)	
0	(IN)	20	3	1
		0 5000		
HNGS Spectroscopy Gamma Ray (HSGR)		HLDS Long Spaced Photoelectric Effect (PEFL)		HLDS Bulk Density Correction (DRH)
0	(GAPI)	150	0	10
				-0.25 (G/C3) 0.25

PIP SUMMARY

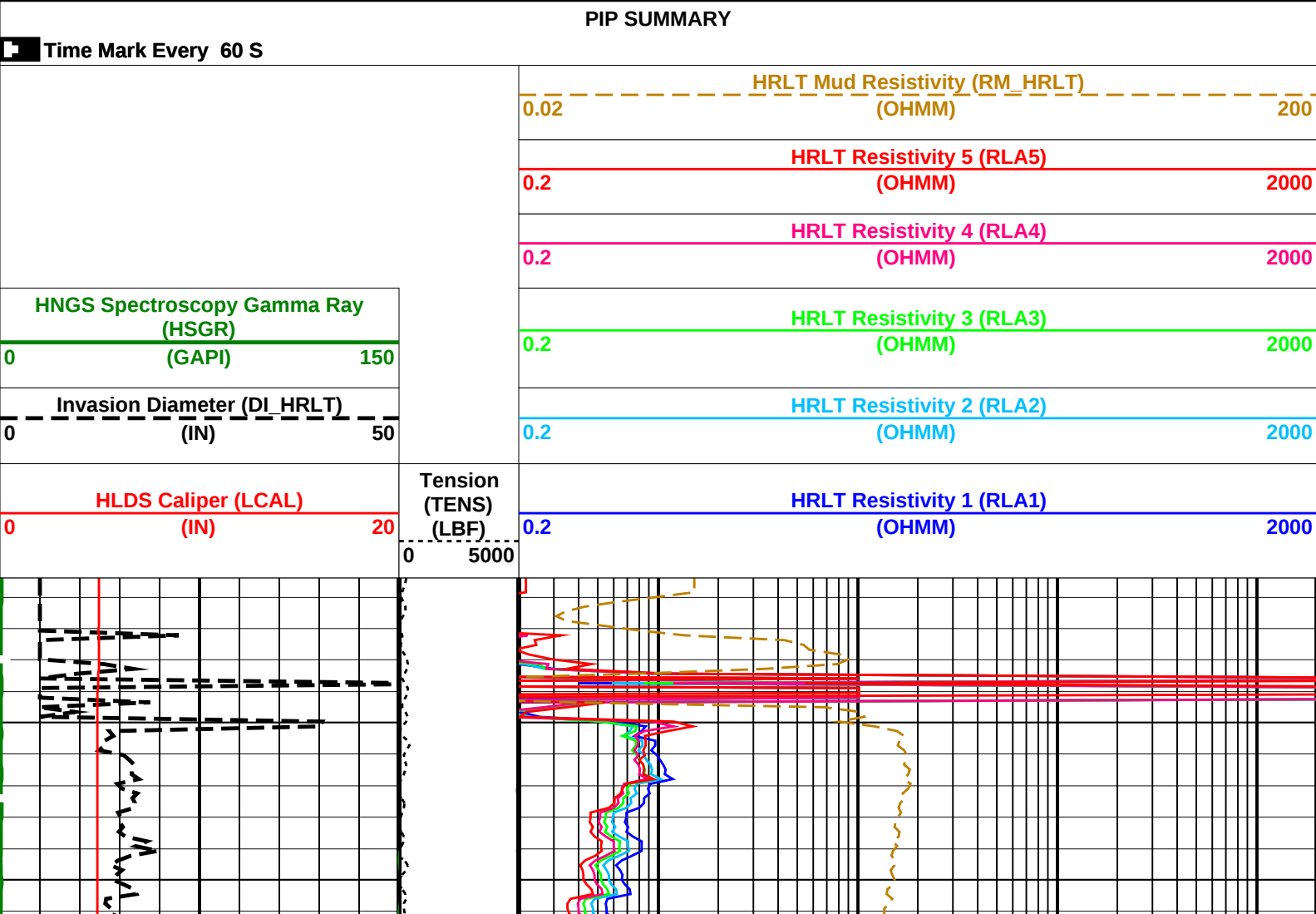
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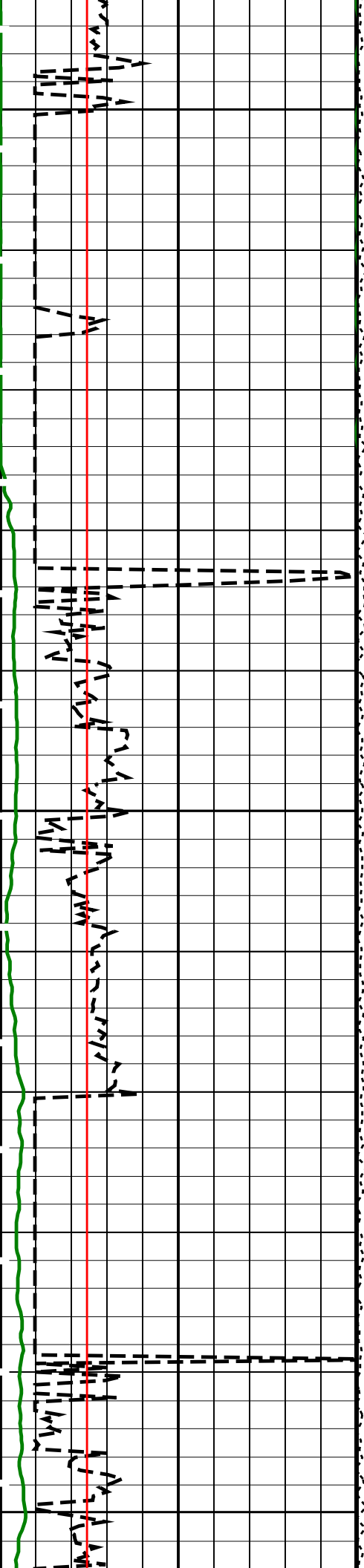
Parameters

DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
HLDS: Hostile Litho-Density Sonde			
DHC	Density Hole Correction	CALIPER	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
MDEN	Matrix Density	2.6	G/C3
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	-0.0039416	
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	1.00924	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.02107	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
DPPM	Density Porosity Processing Mode	HIRS	
GCSE	Generalized Caliper Selection	LCAL	

GCSE	System and Miscellaneous	Generalized Caliper Selection	LCAL	
BS	Bit Size		9.875	IN
DFD	Drilling Fluid Density		1.05	G/C3
Format: HLDSDensityPE		Vertical Scale: 1:200	Graphics File Created: 15-Nov-2022 02:31	
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	SKK-5169-EDTCB			
Output DLIS Files				
DEFAULT	MSS_LDEO_HRLA_LDL_009LUP	FN:9	PRODUCER	15-Nov-2022 02:31
RTB	MSS_LDEO_HRLA_LDL_009LUP	FN:10	PRODUCER	15-Nov-2022 02:31

Company: International Ocean Discovery Program				Well: Expedition 397, Site U1587C		
Output DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_009LUP	FN:9	PRODUCER	15-Nov-2022 02:31	4048.5 M	3461.0 M
RTB	MSS_LDEO_HRLA_LDL_009LUP	FN:10	PRODUCER	15-Nov-2022 02:31	4048.5 M	3461.0 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	SKK-5169-EDTCB					

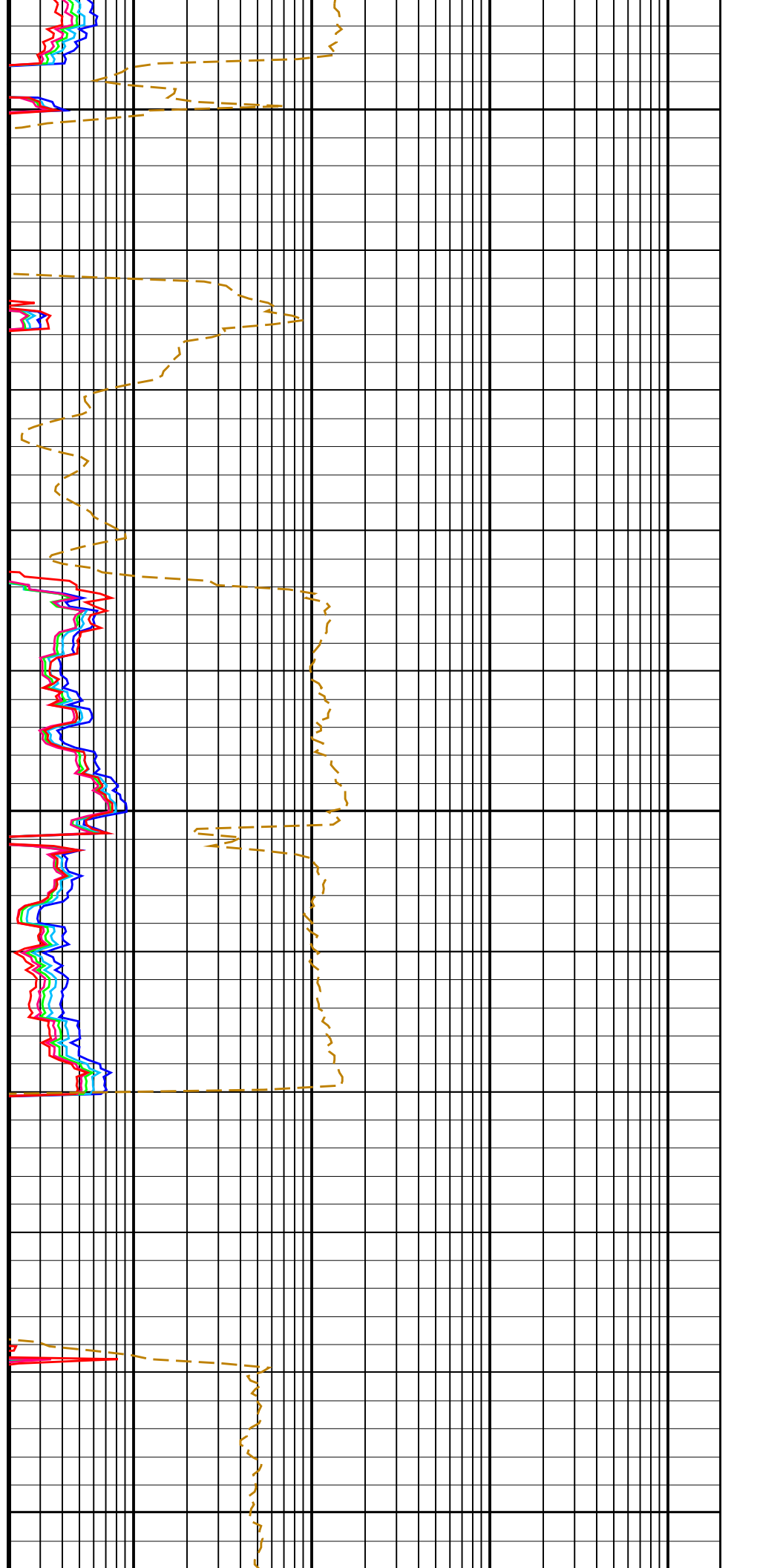


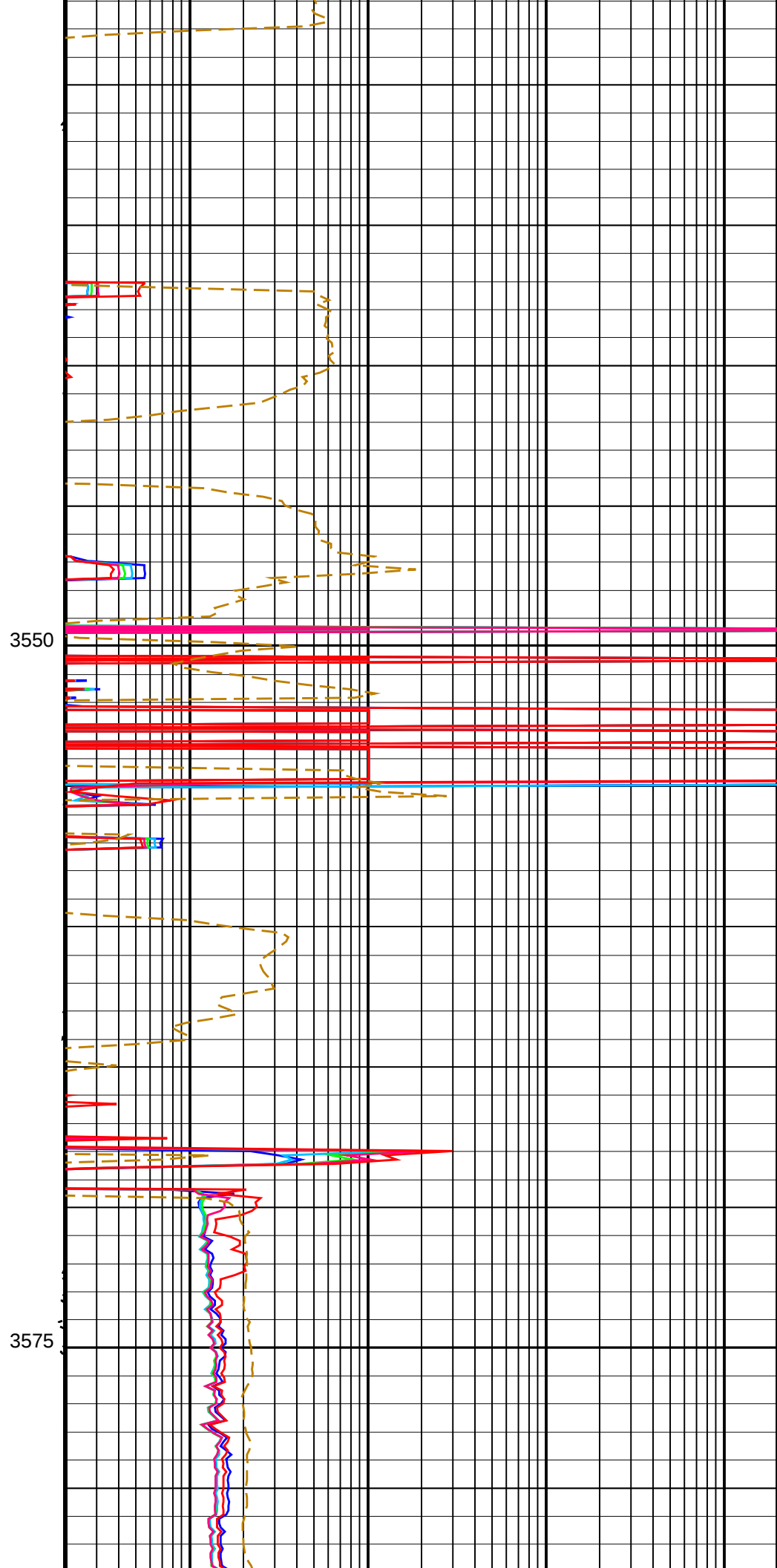
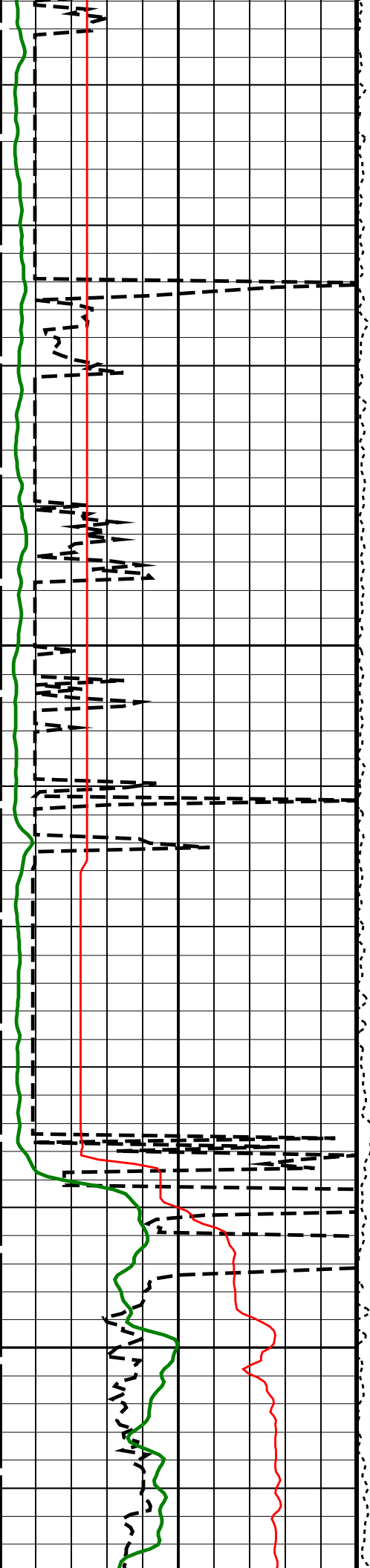


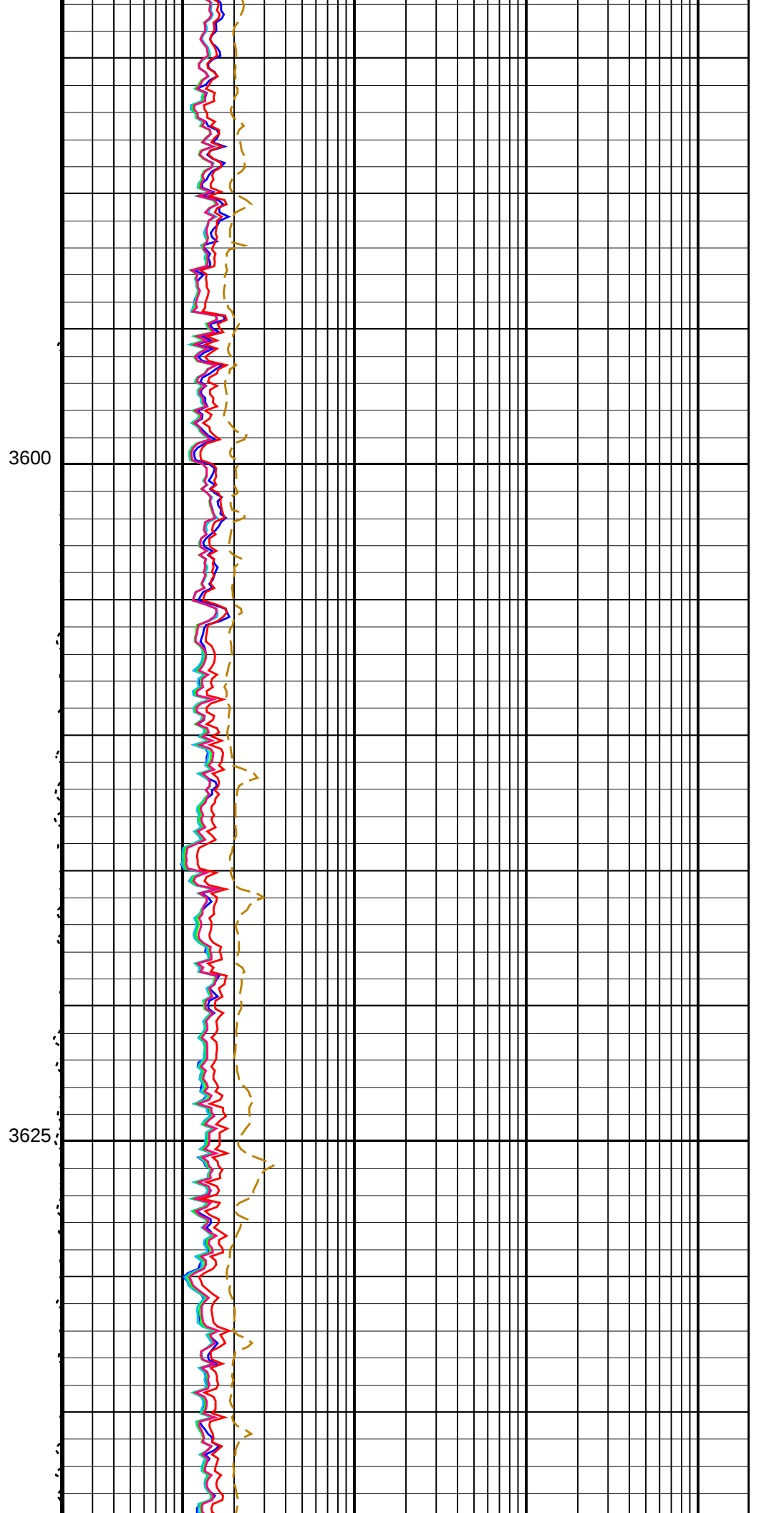
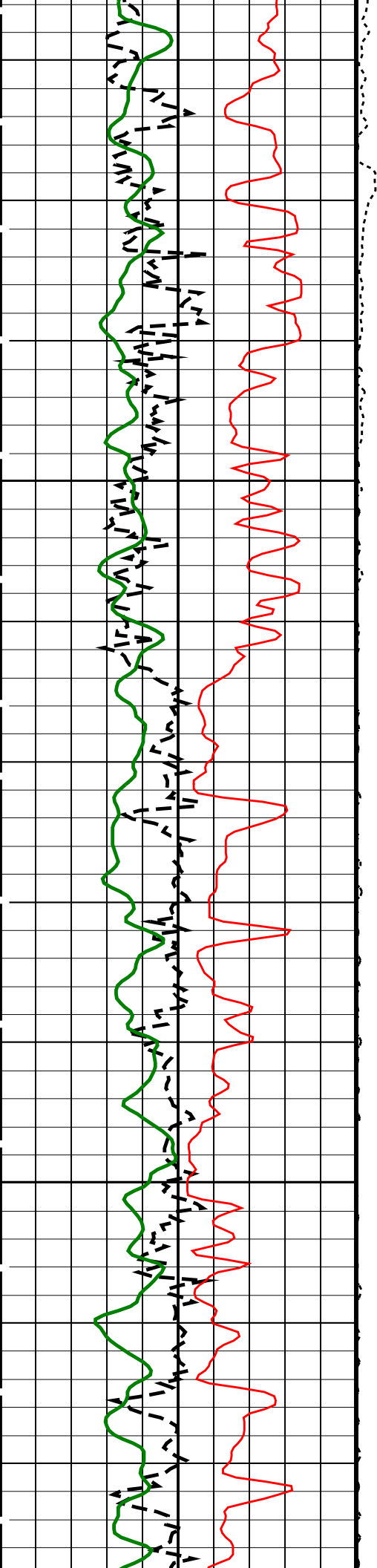
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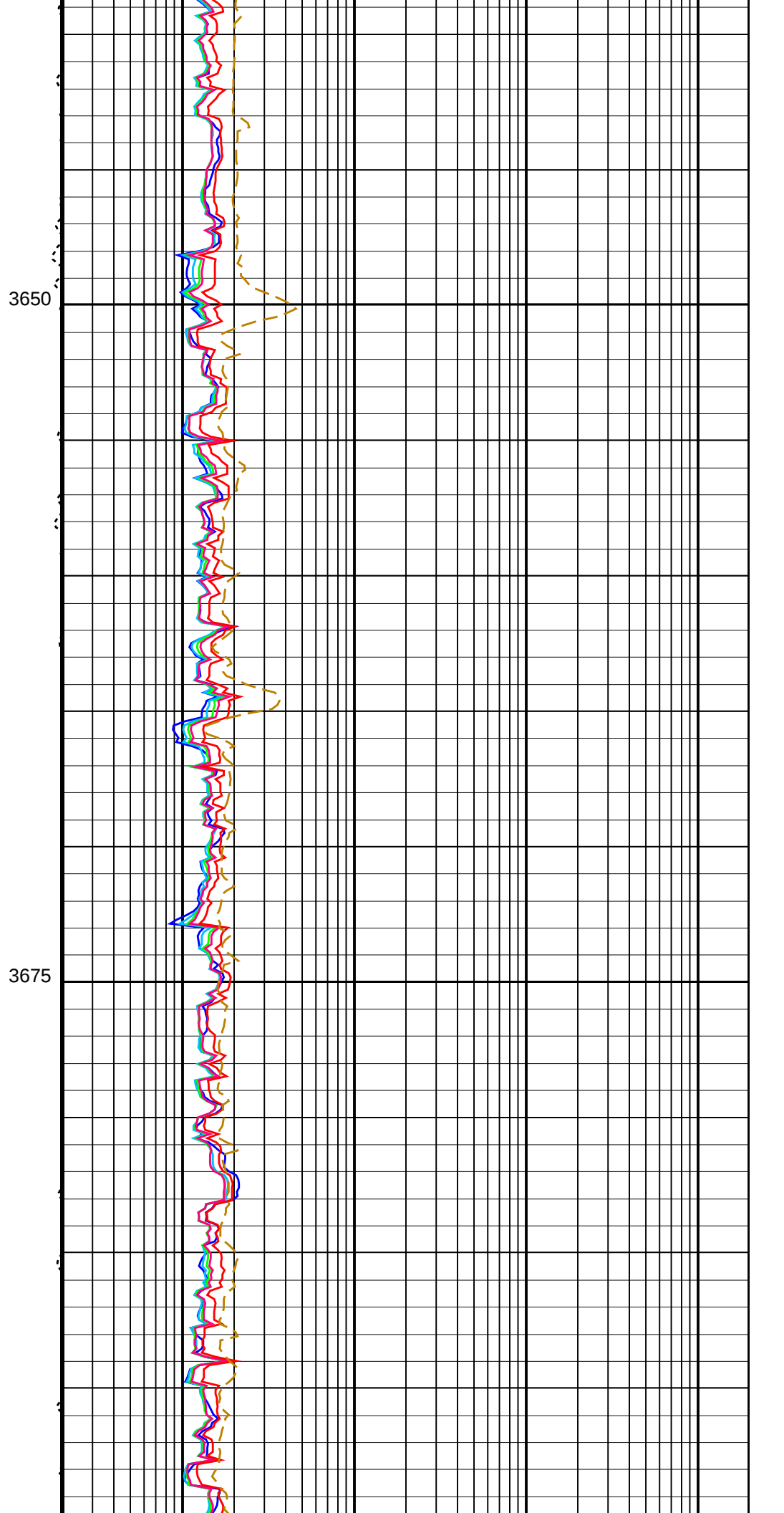
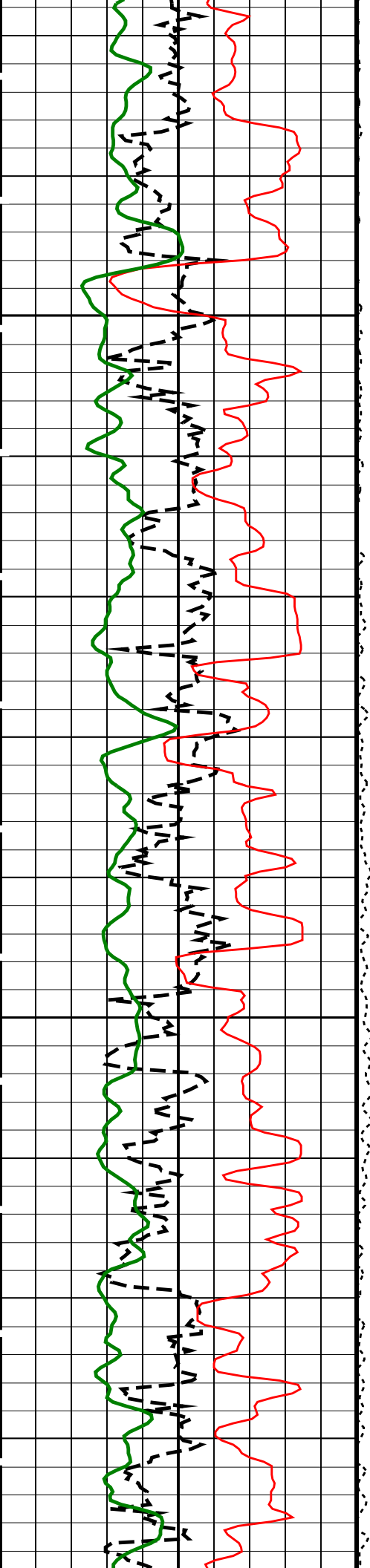
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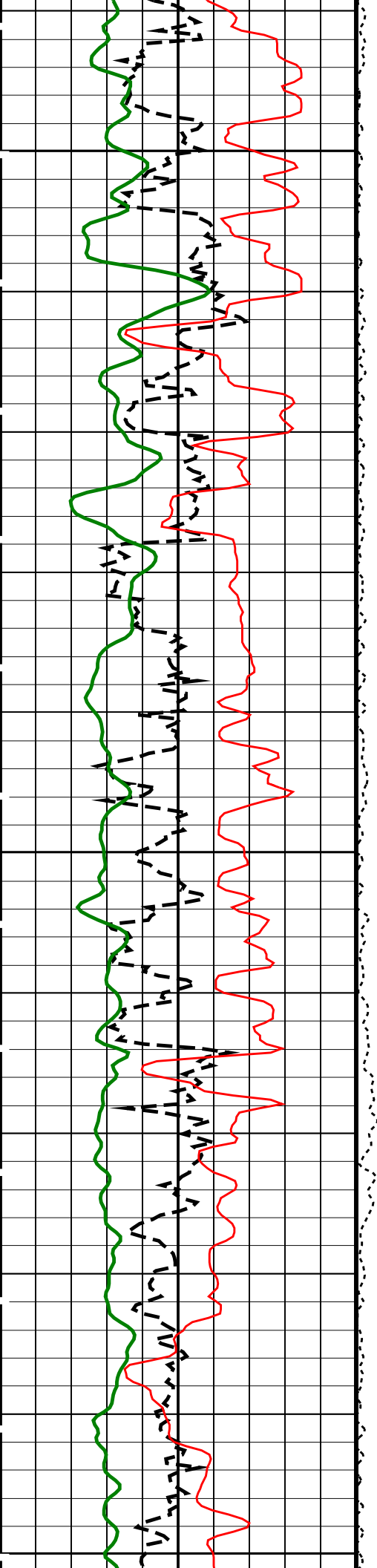
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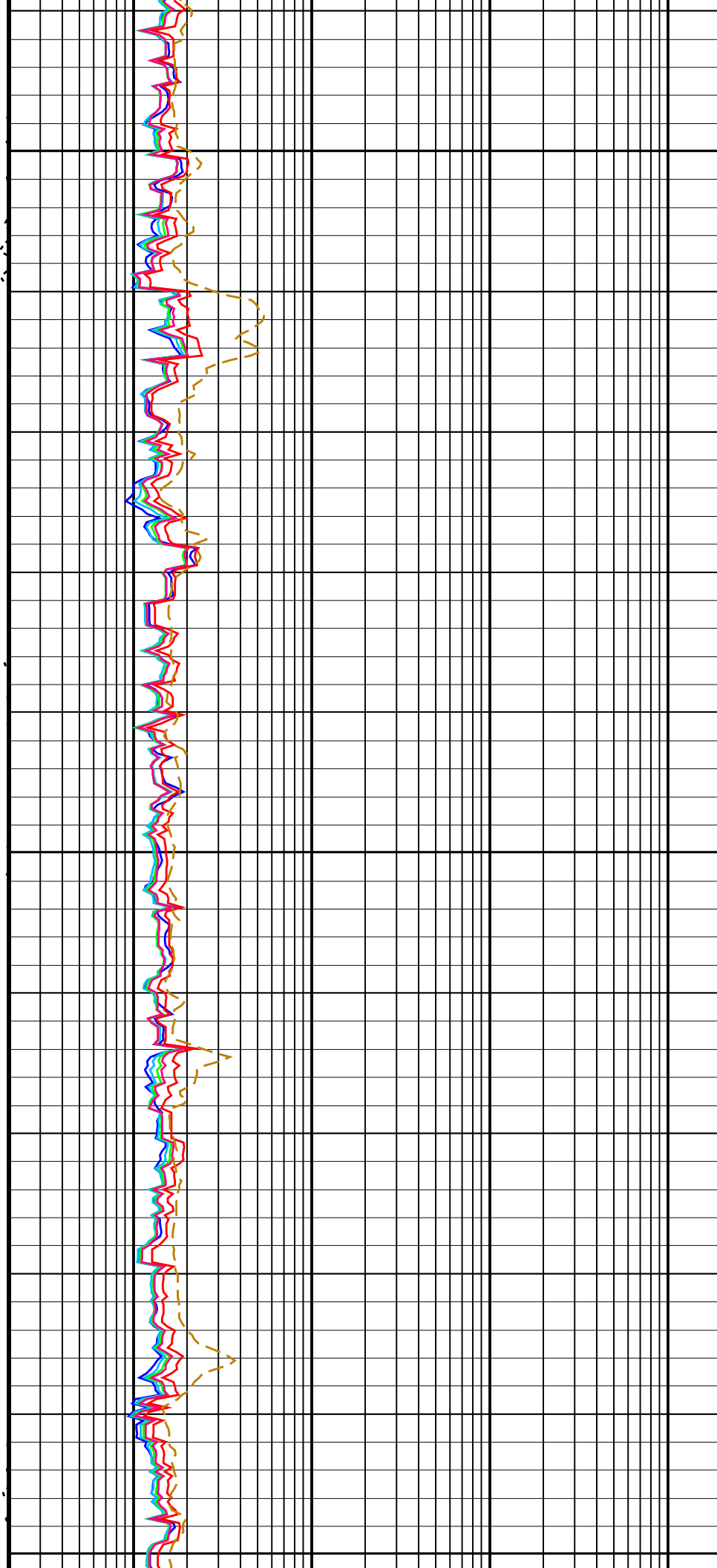


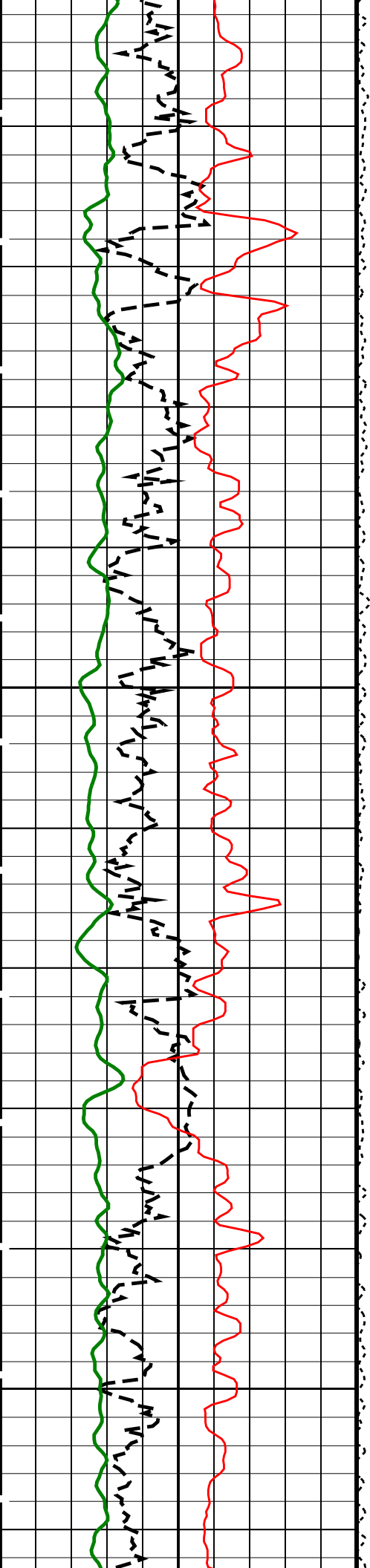


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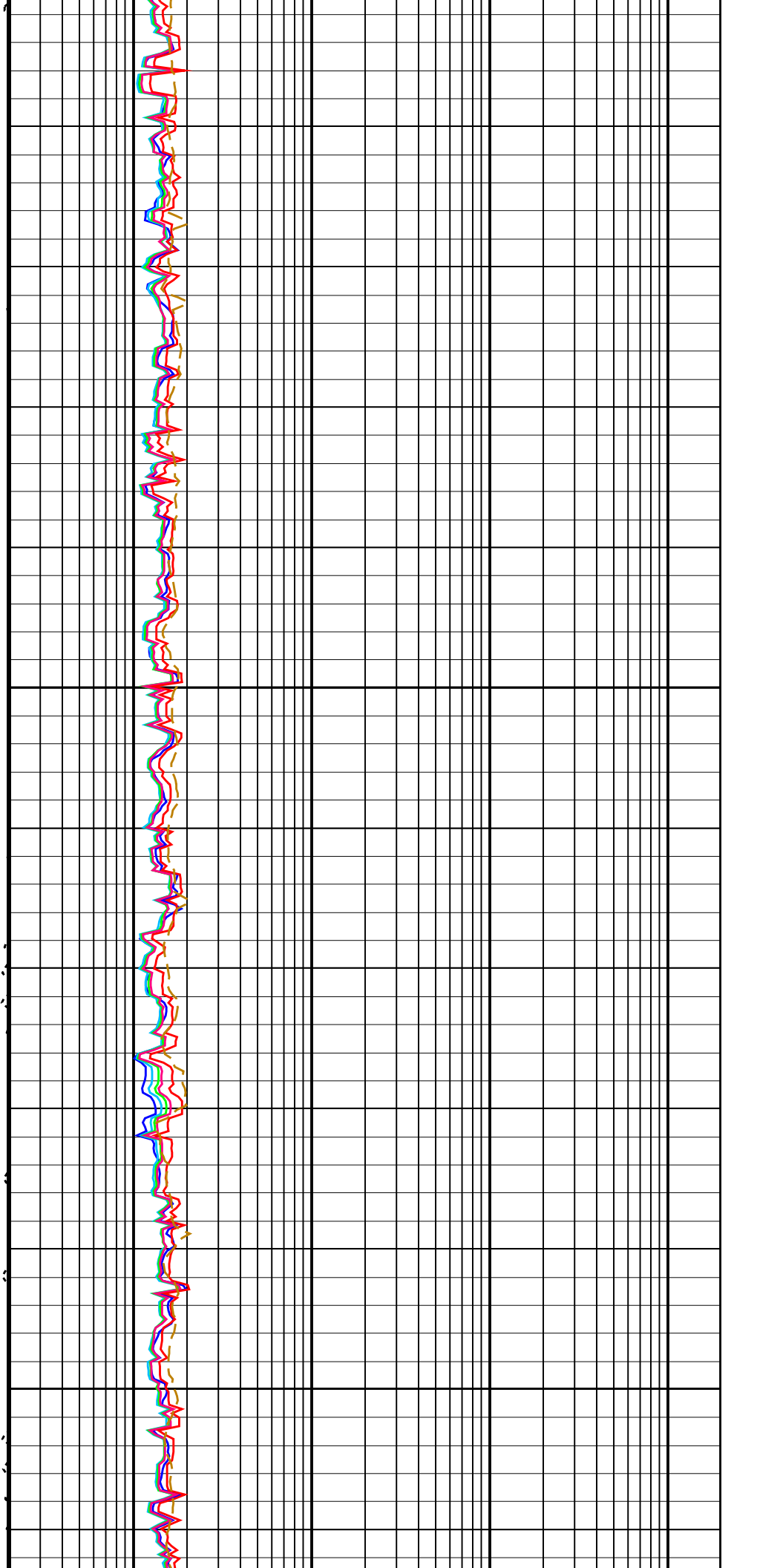
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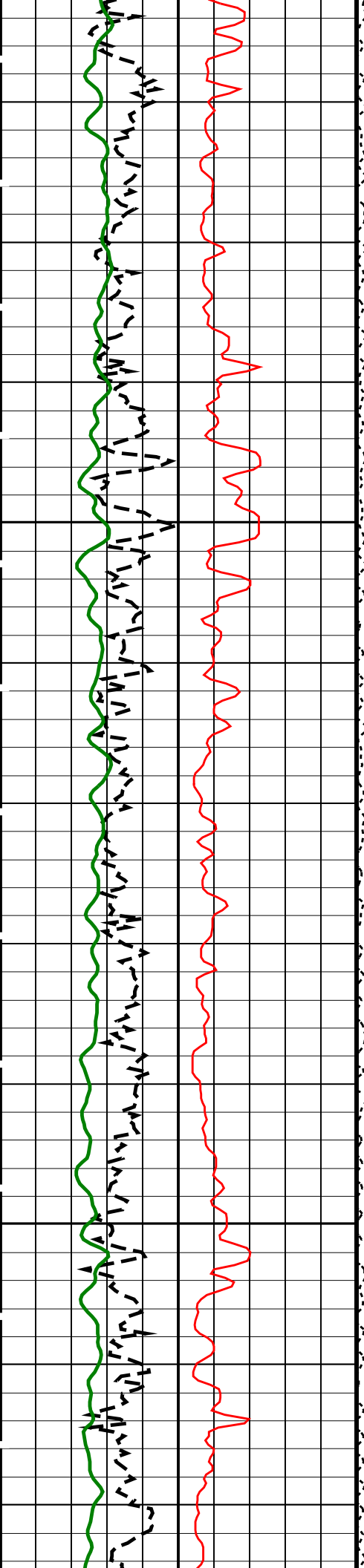




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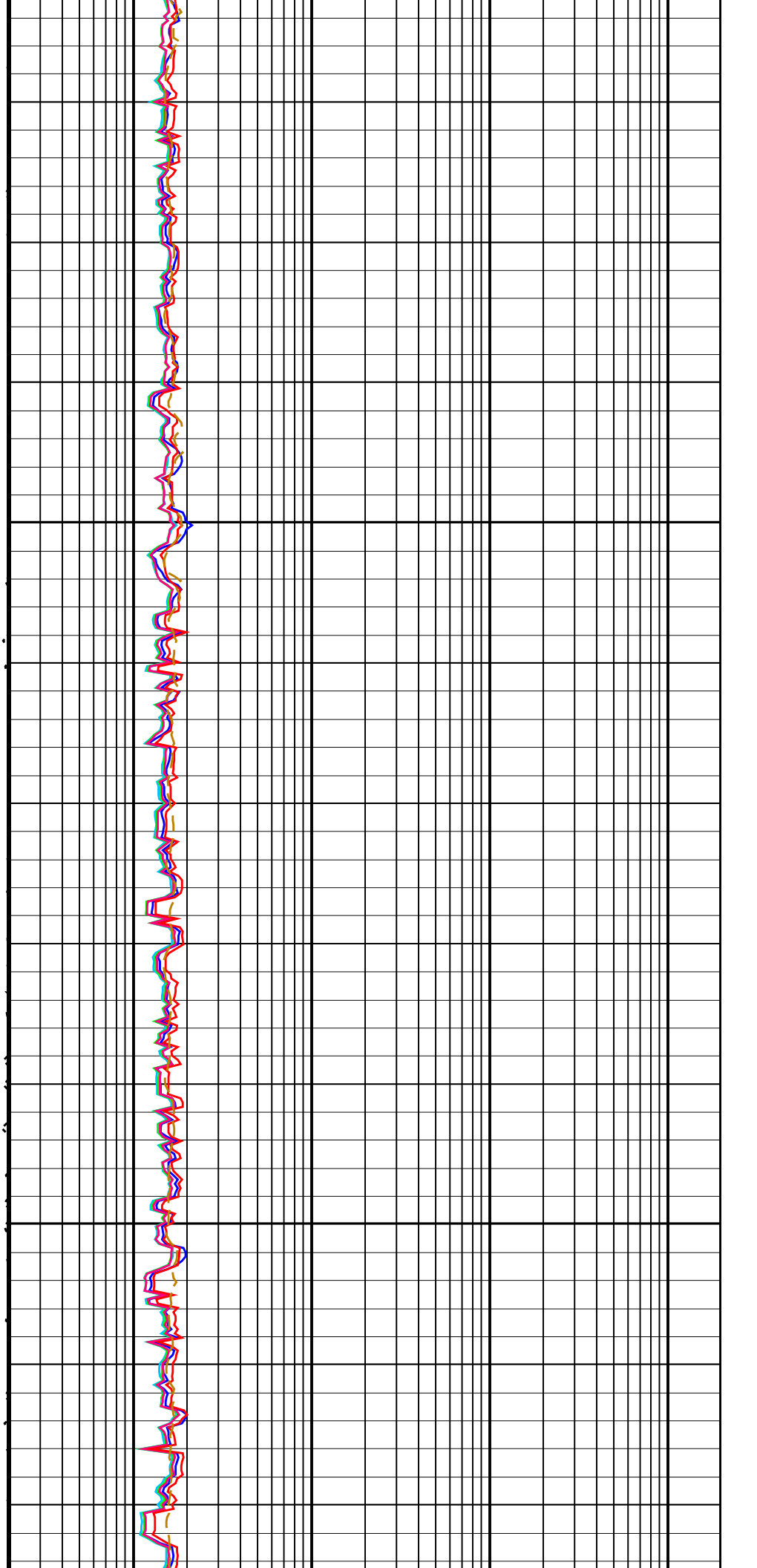
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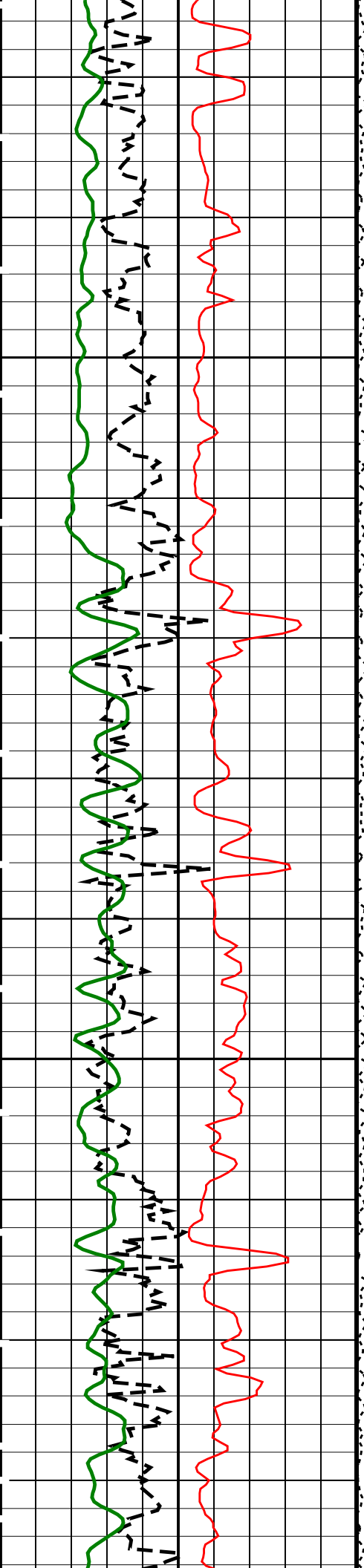




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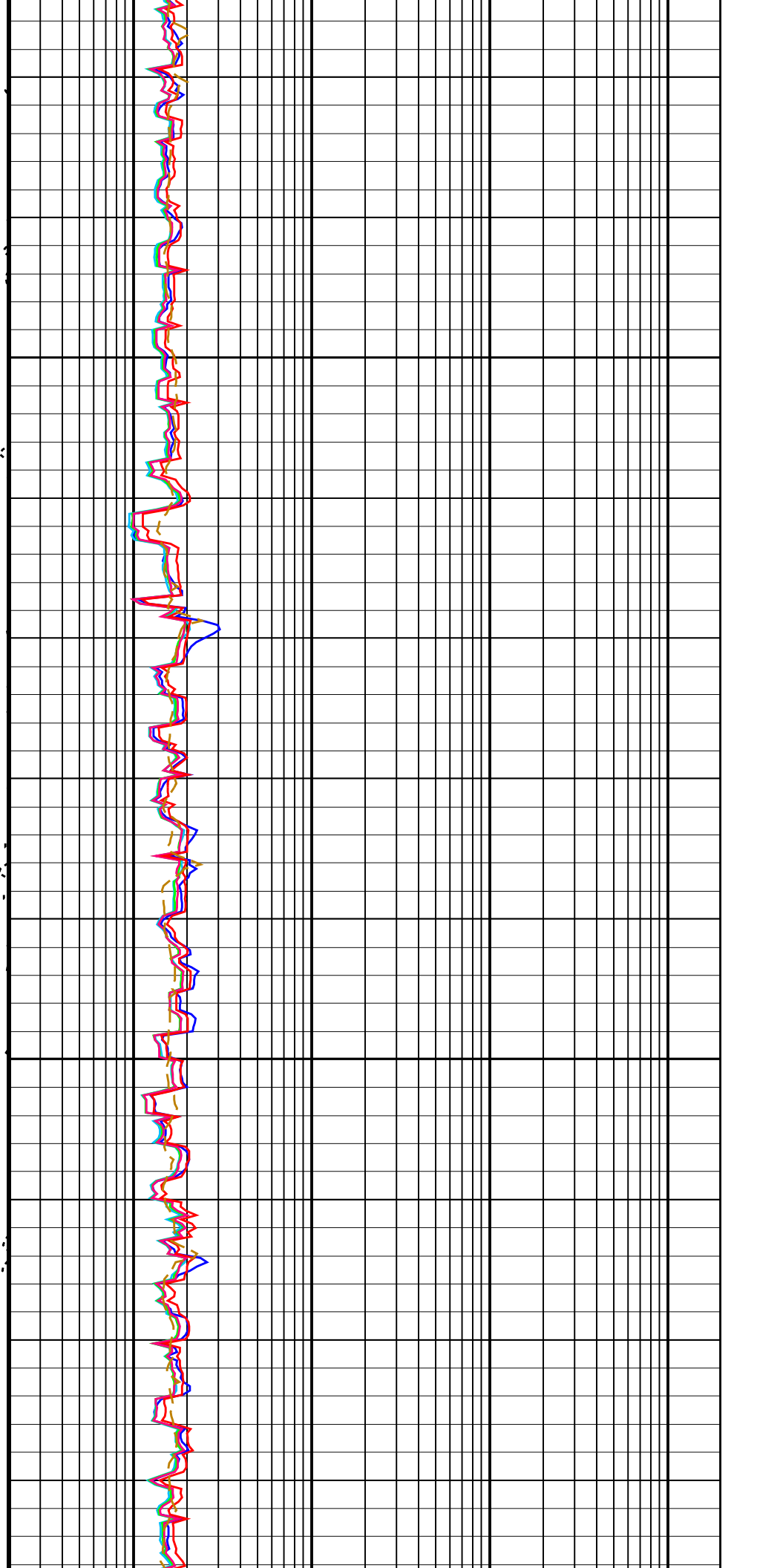
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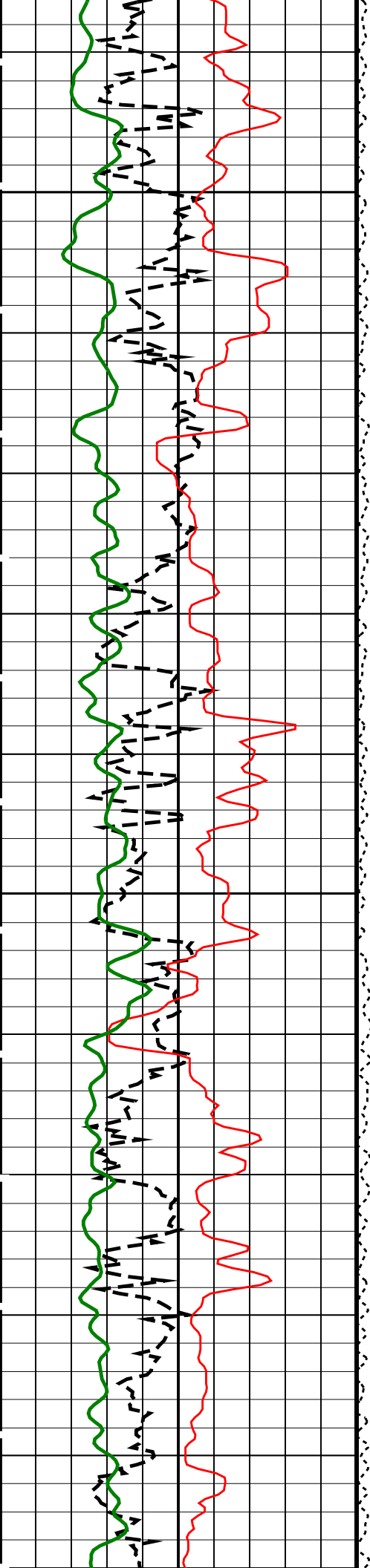




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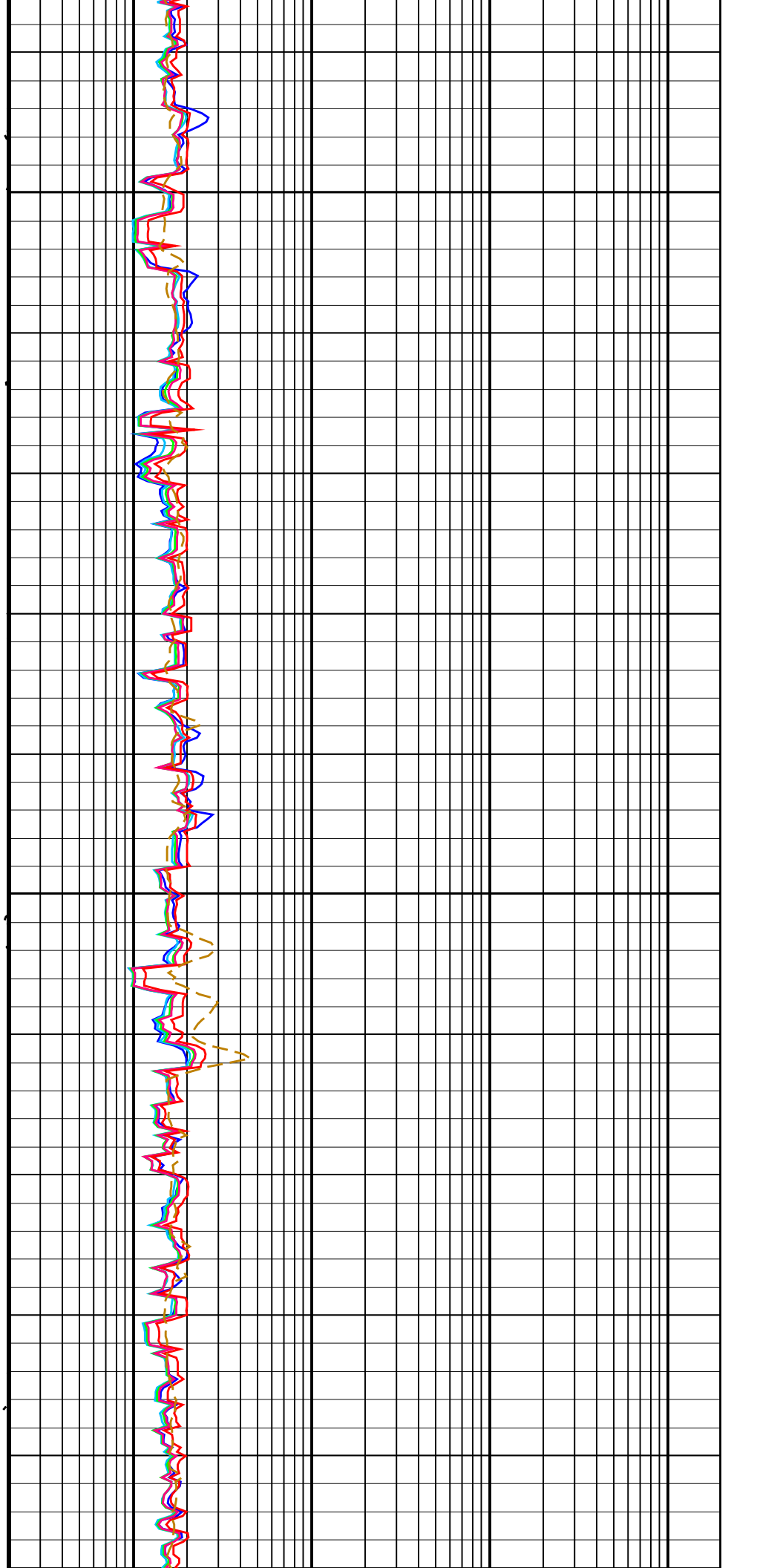
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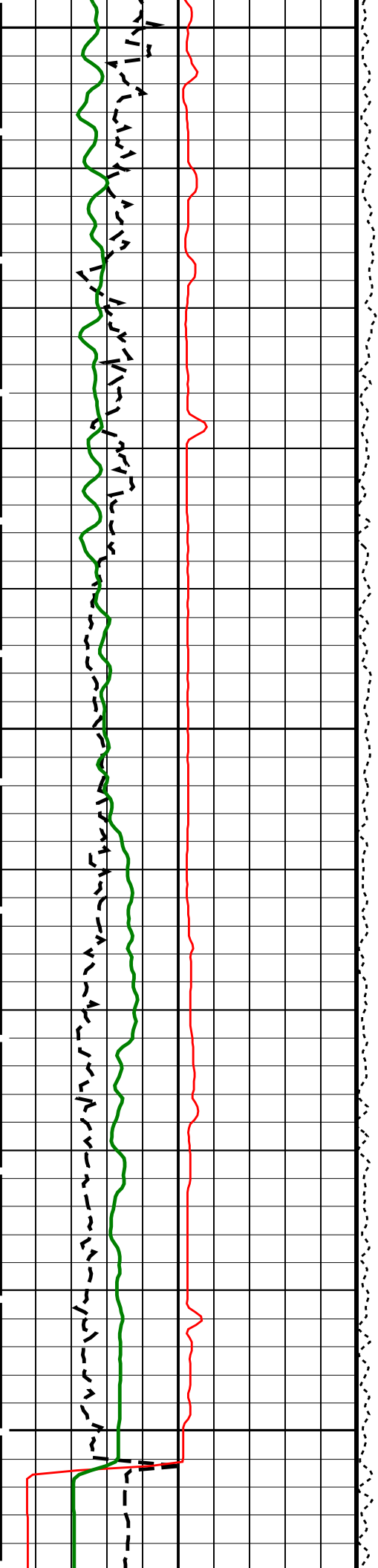




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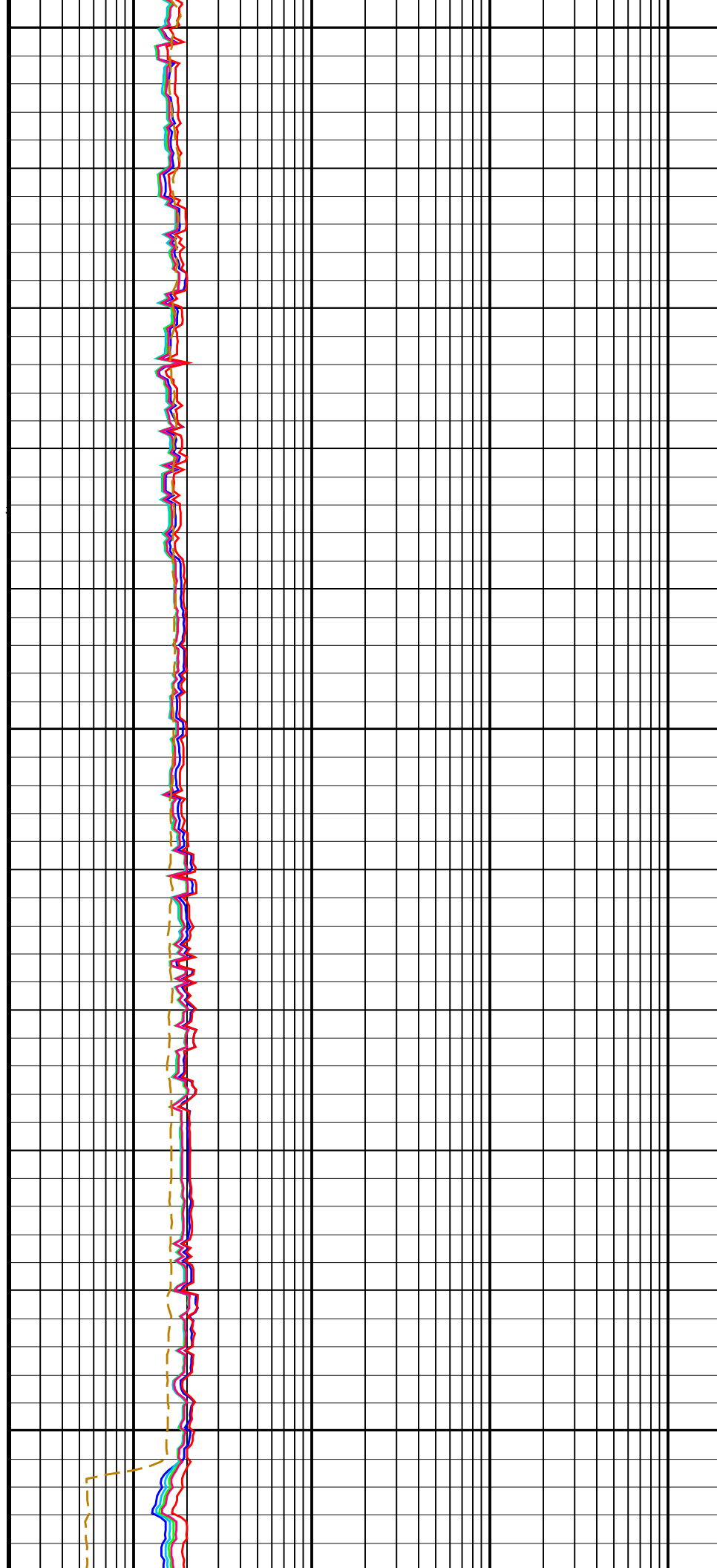


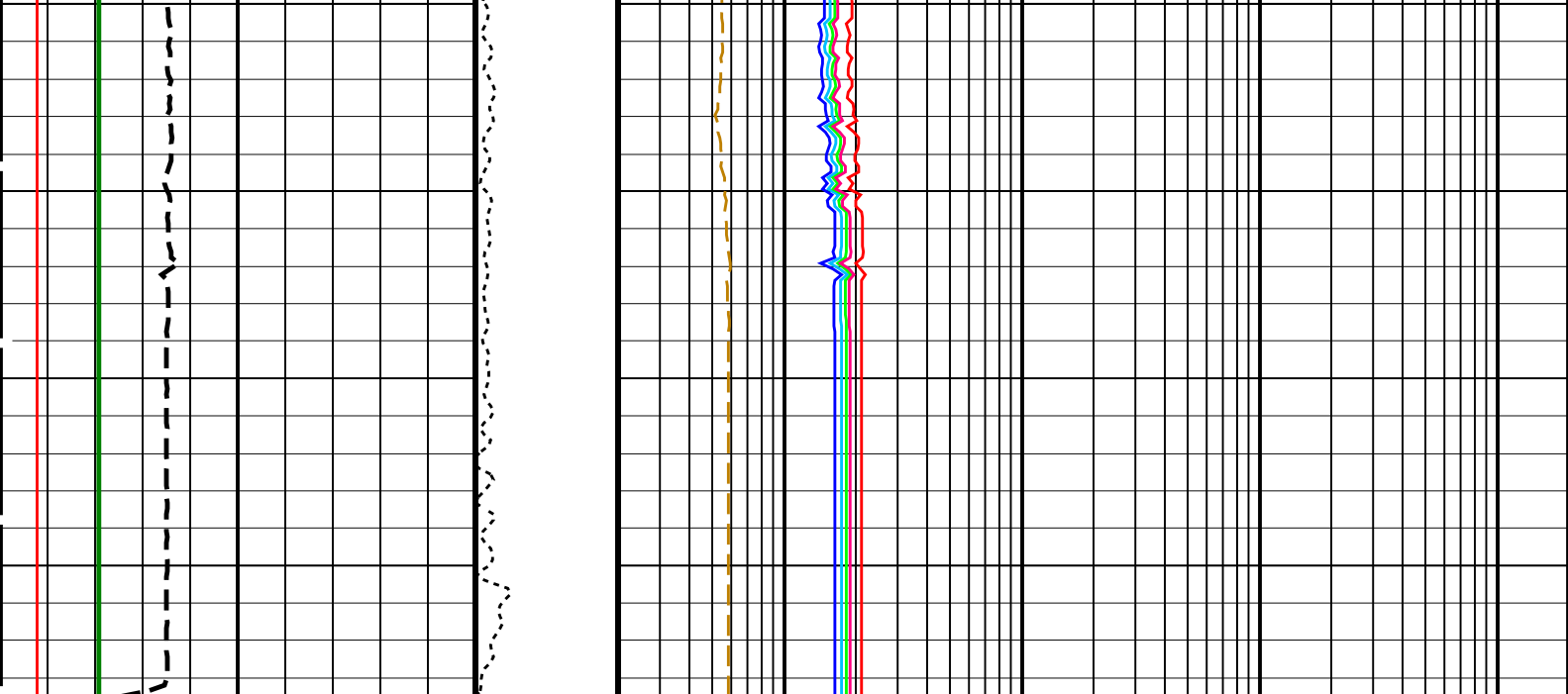


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HLDS Caliper (LCAL) (IN) 020	Tension (TENS) (LBF) 05000	HRLT Resistivity 1 (RLA1) (OHMM) 0.22000
Invasion Diameter (DI_HRLT) (IN) 050		HRLT Resistivity 2 (RLA2) (OHMM) 0.22000
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0150		HRLT Resistivity 3 (RLA3) (OHMM) 0.22000
		HRLT Resistivity 4 (RLA4) (OHMM) 0.22000
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		HRLT Mud Resistivity (RM_HRLT) (OHMM) 0.02200

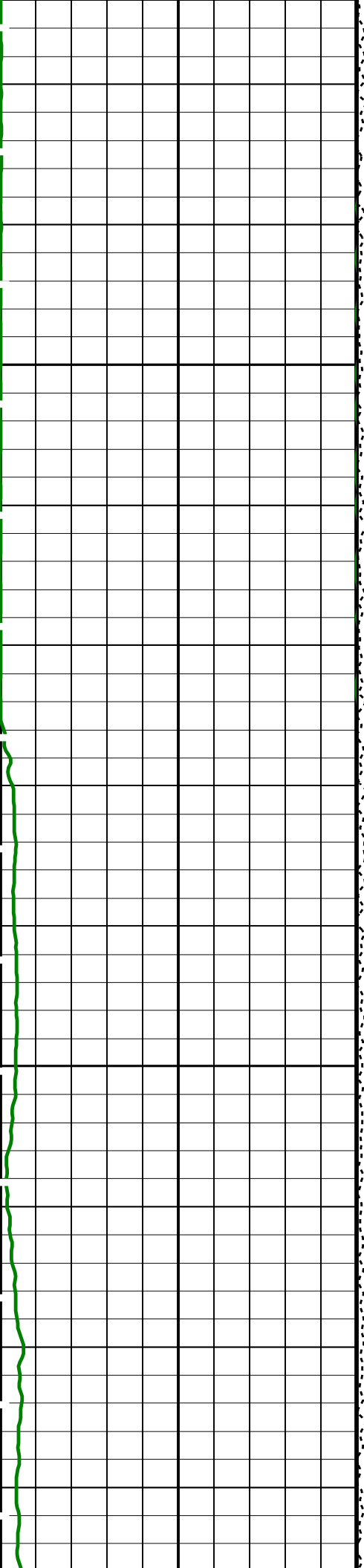
PIP SUMMARY

Time Mark Every 60 S

Parameters

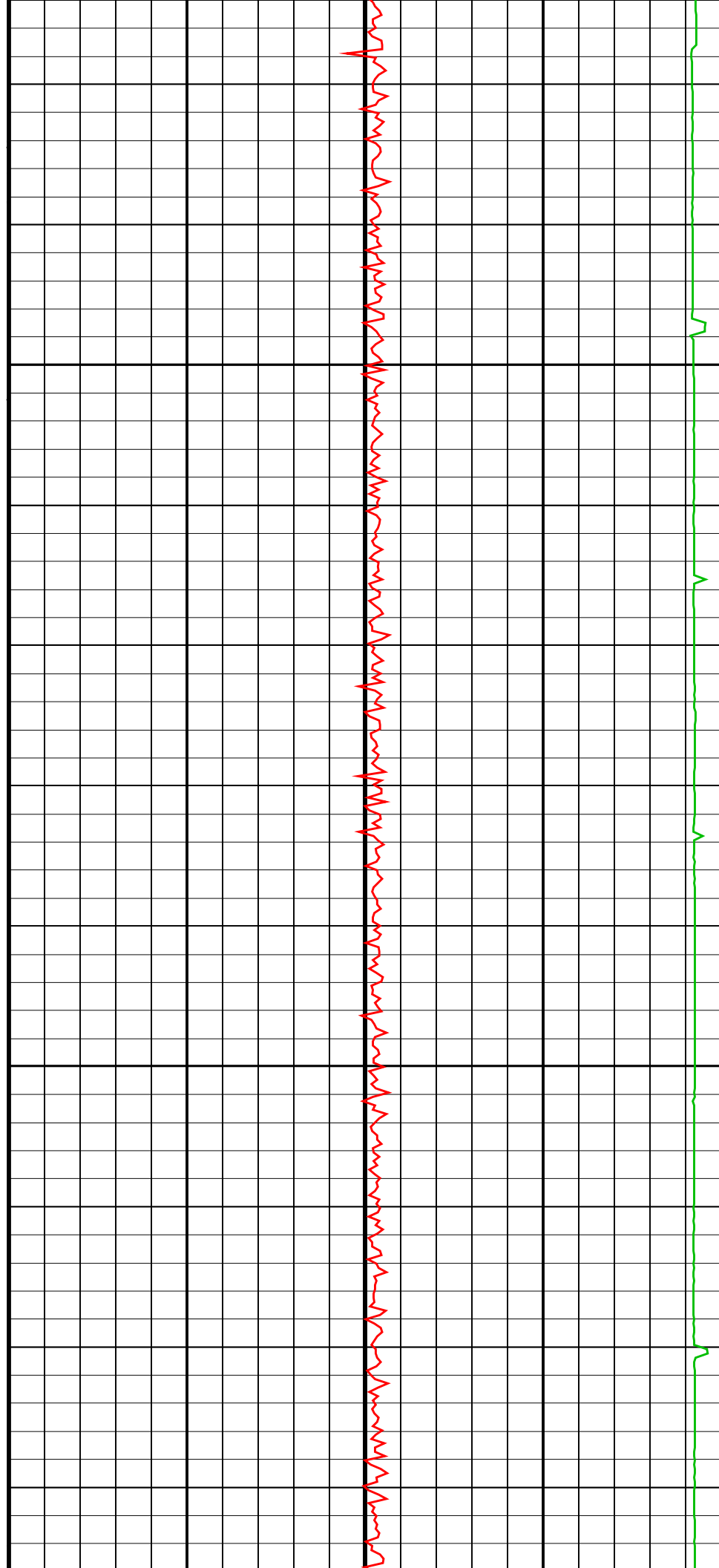
DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	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	Eccentered	
SHT	Surface Hole Temperature	20	DEGC
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	
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F

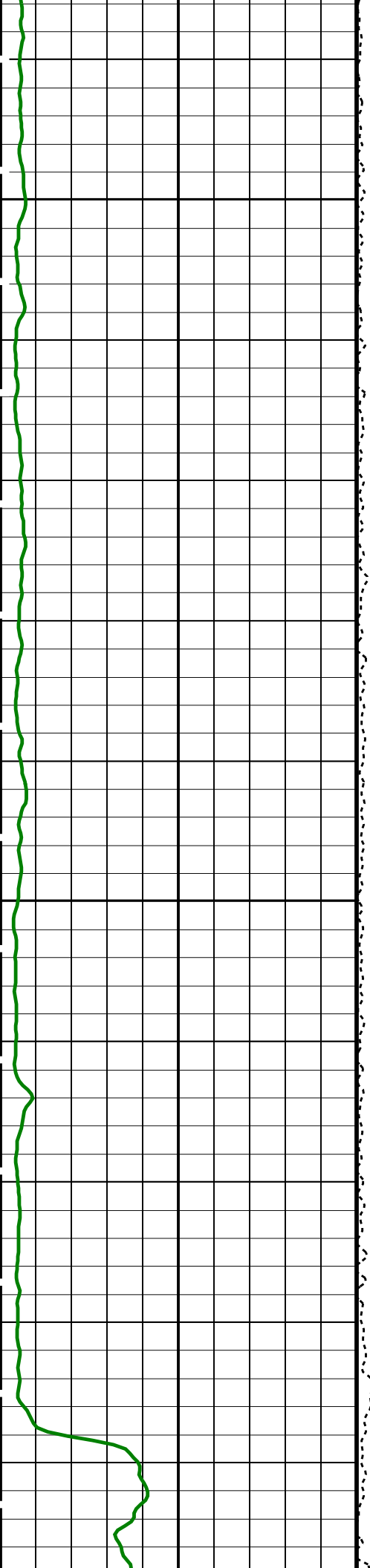




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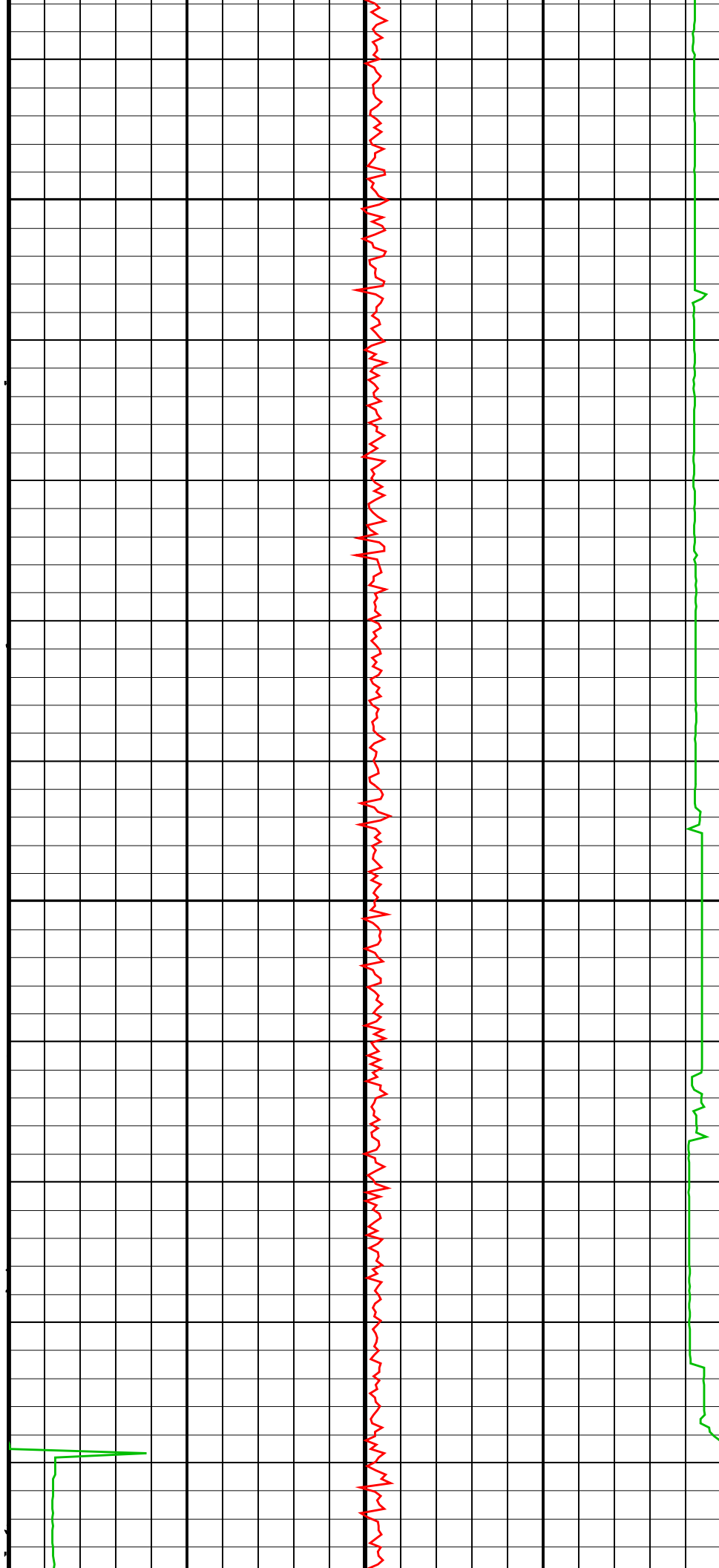
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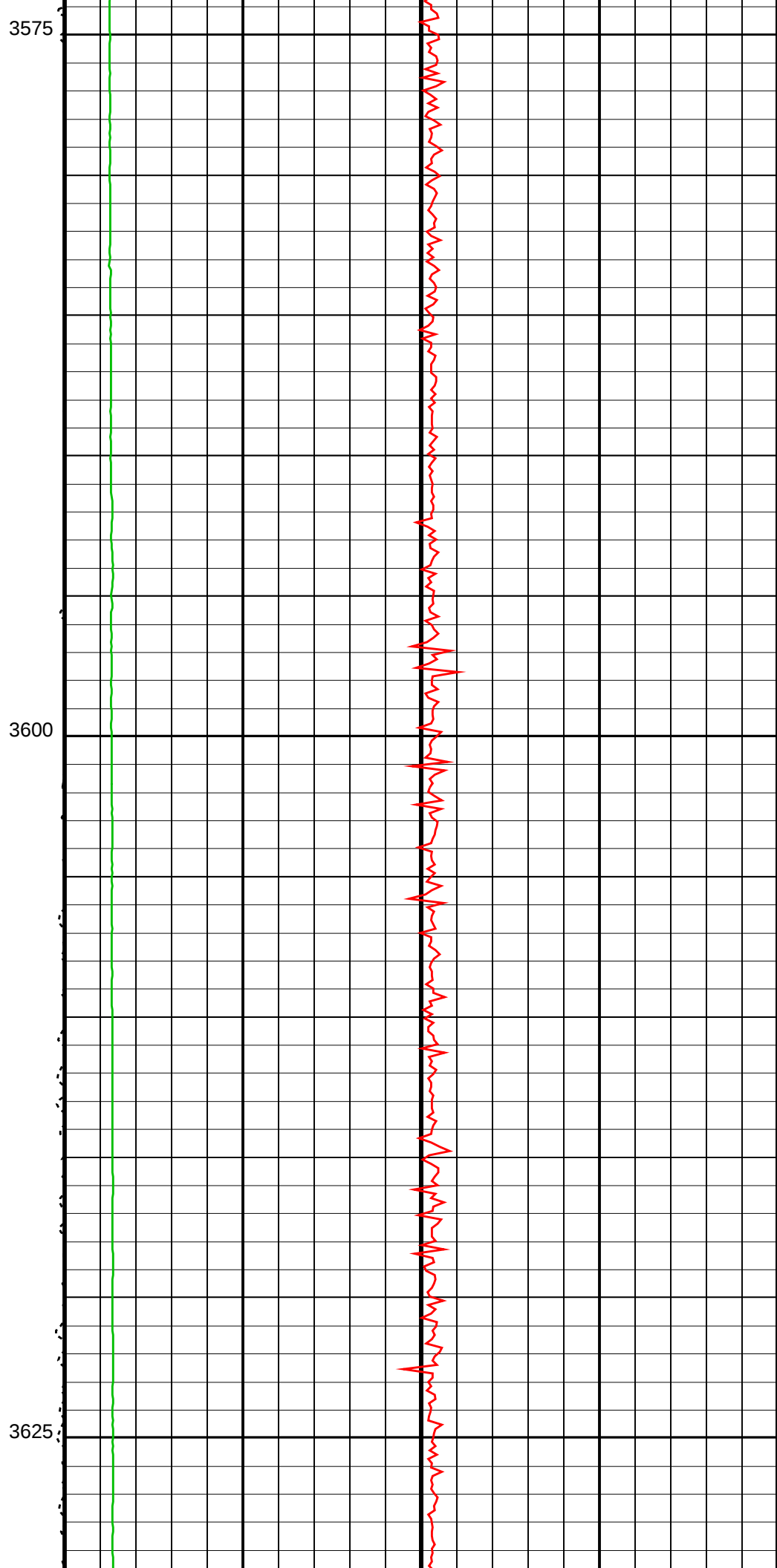
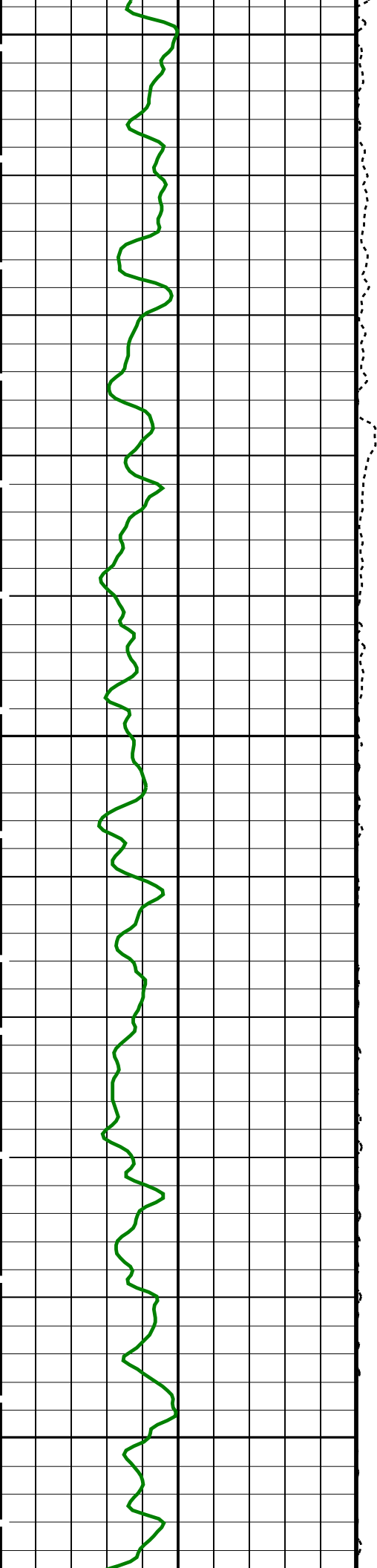


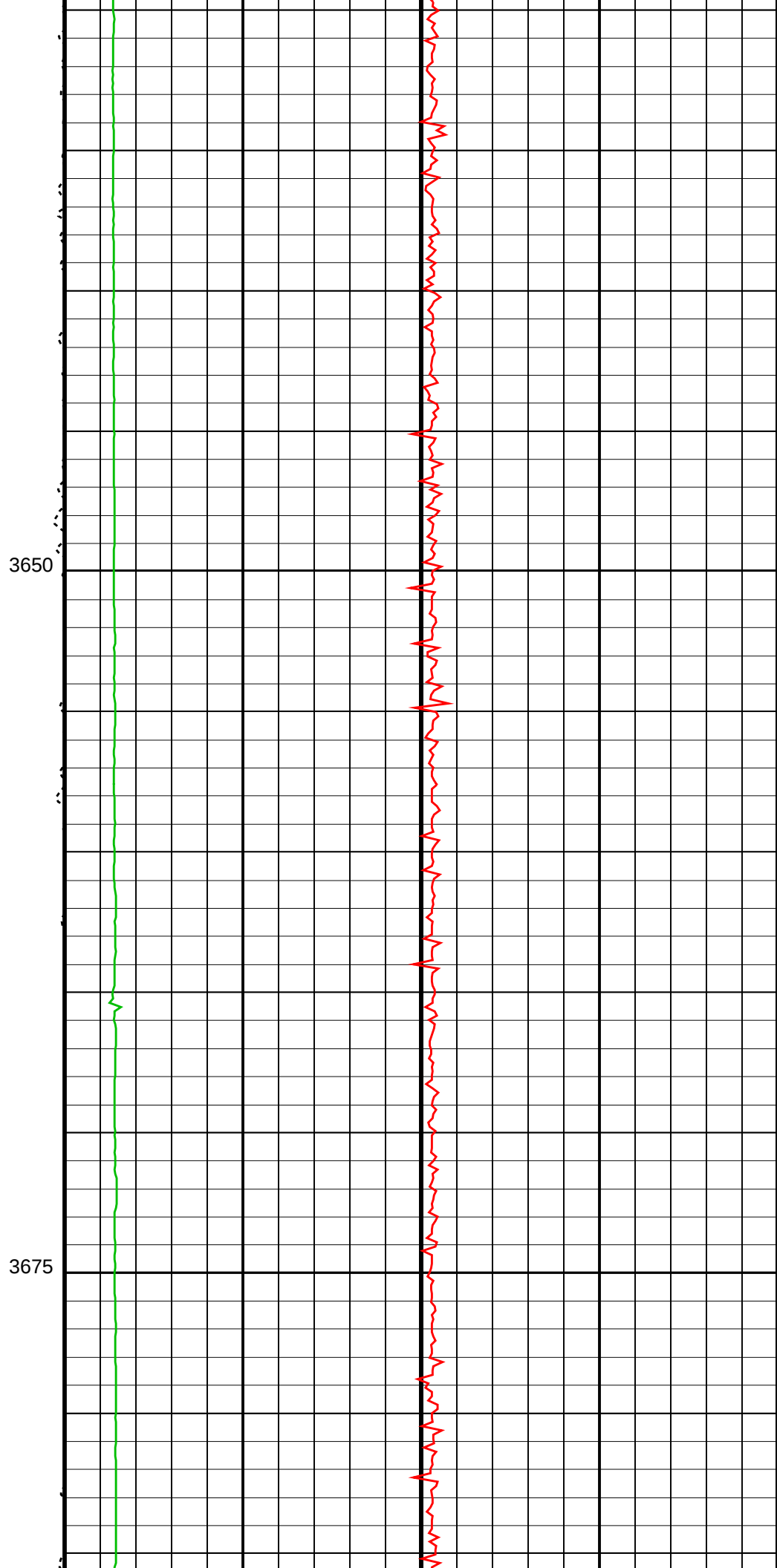
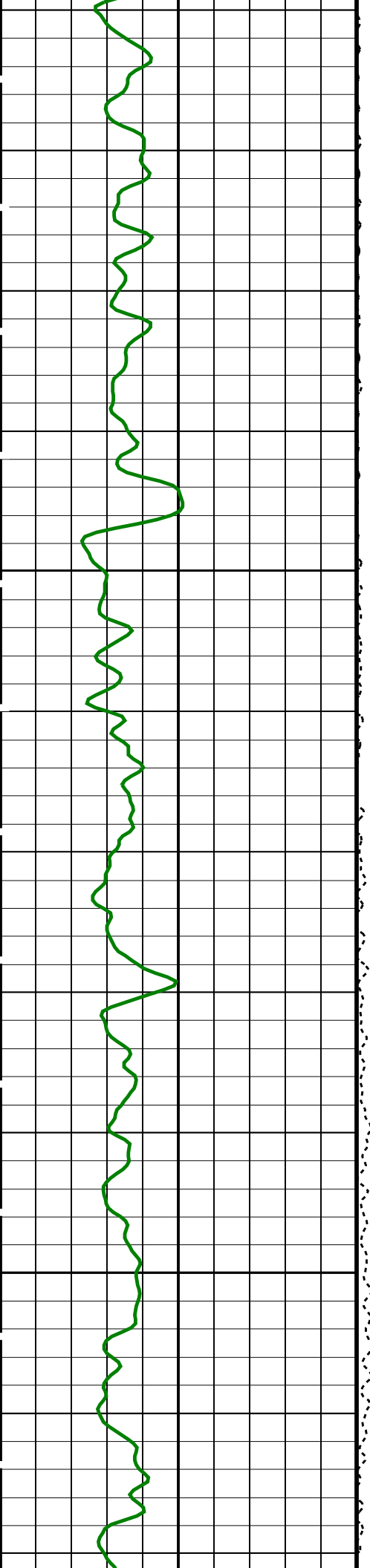


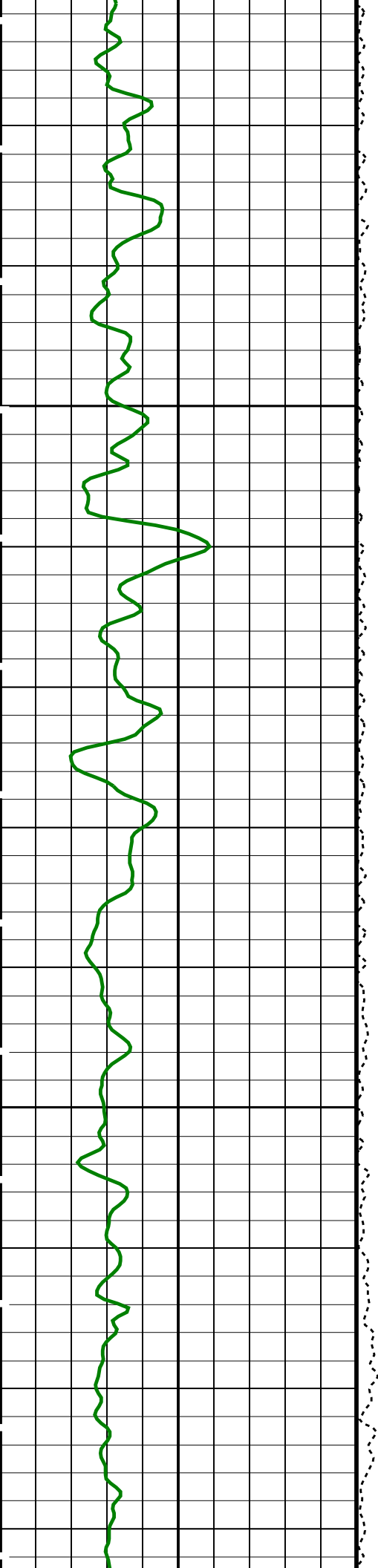
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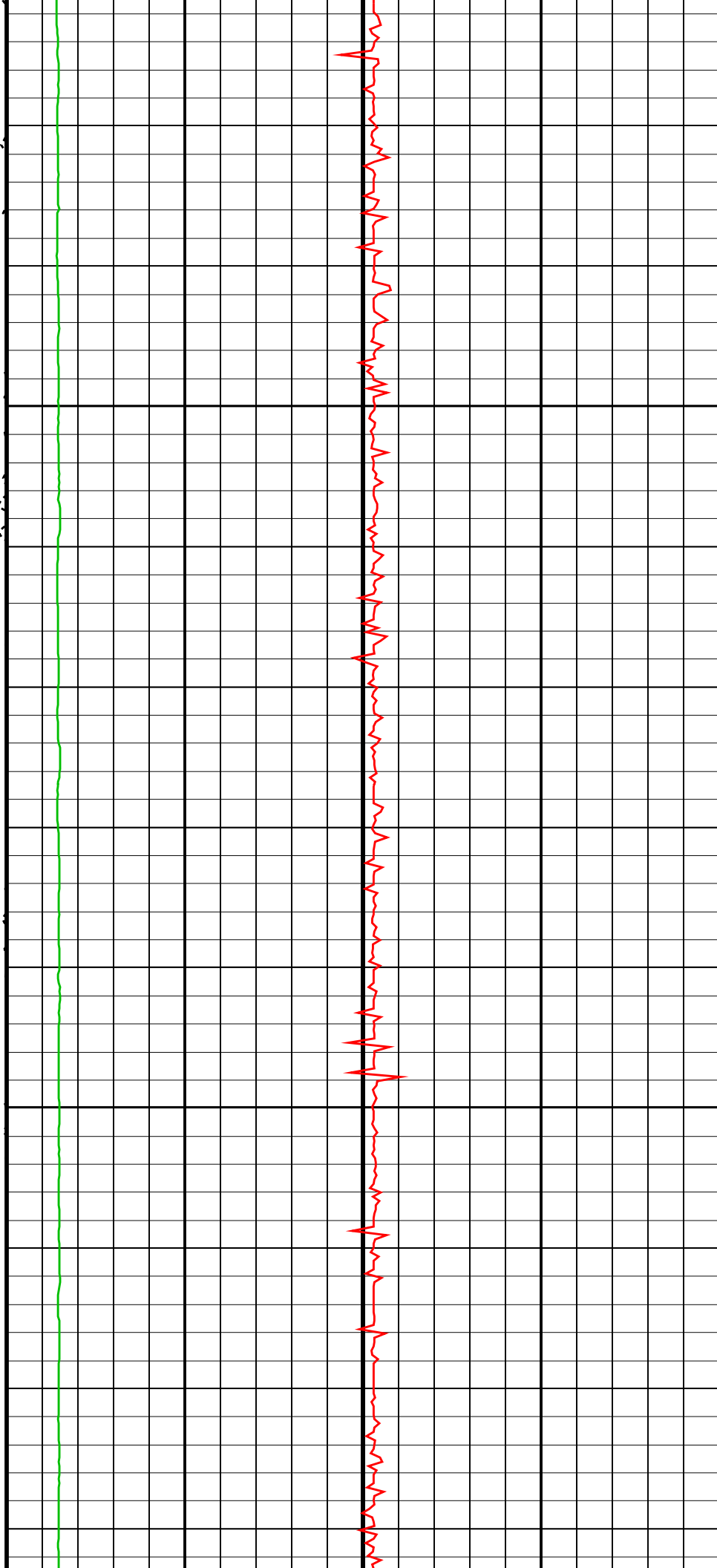


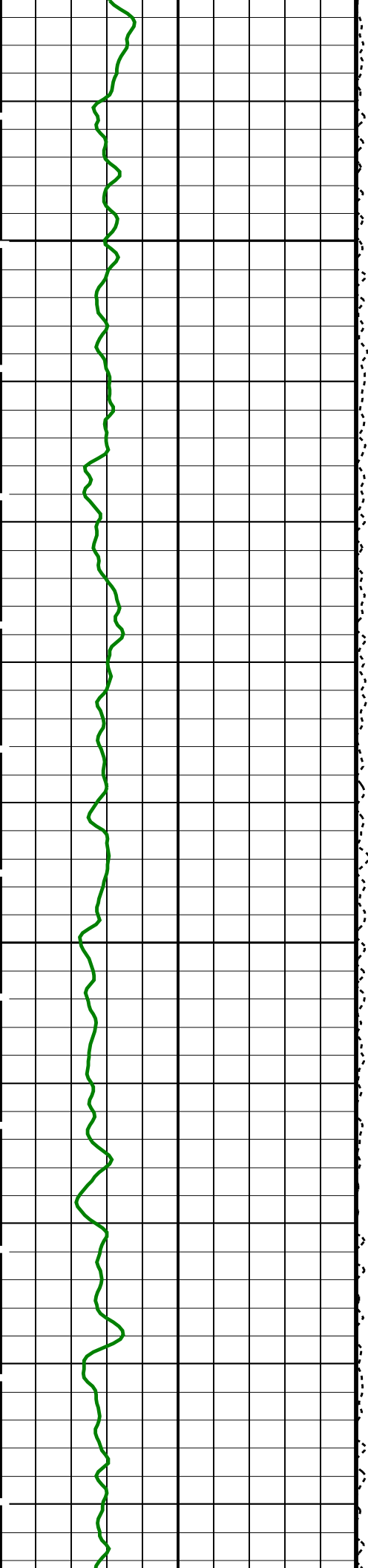




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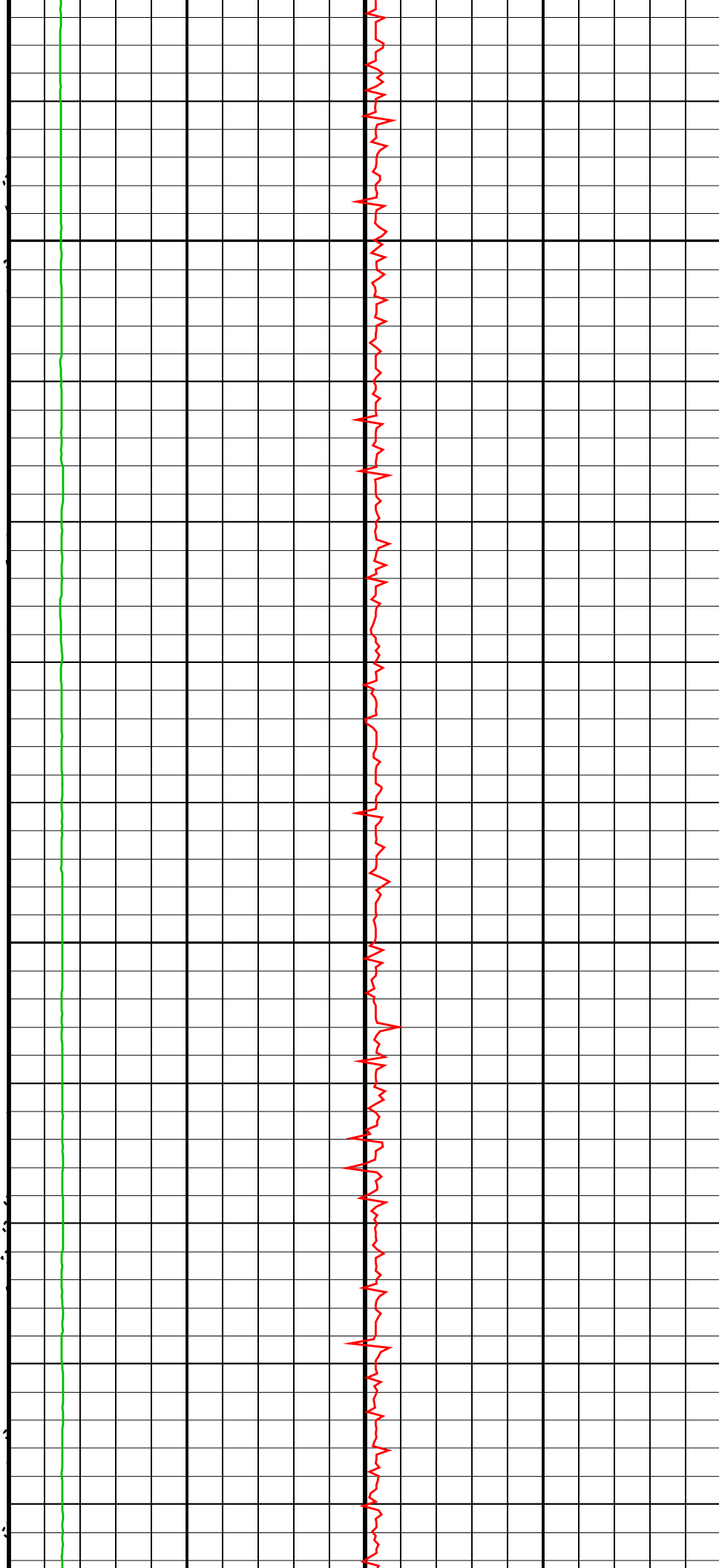
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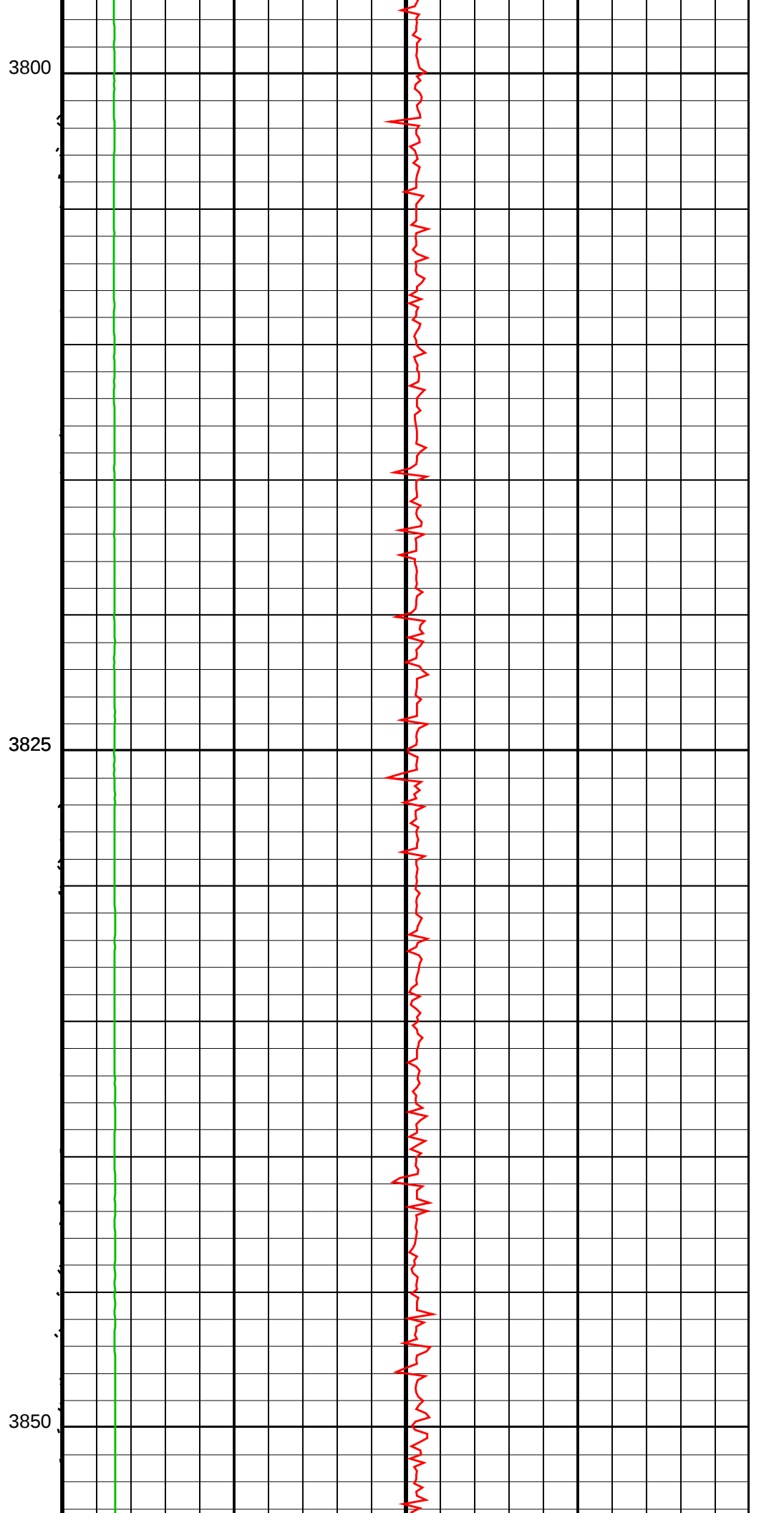
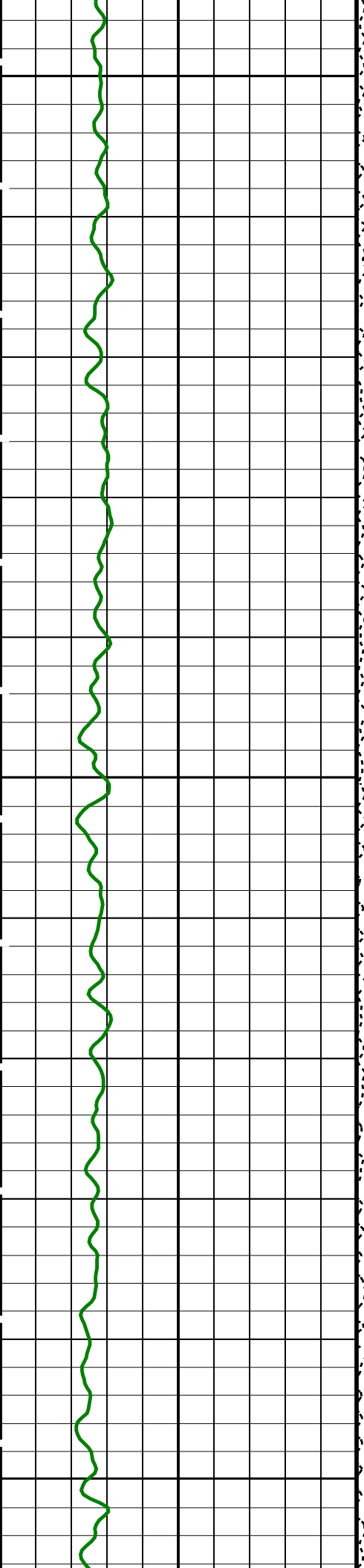


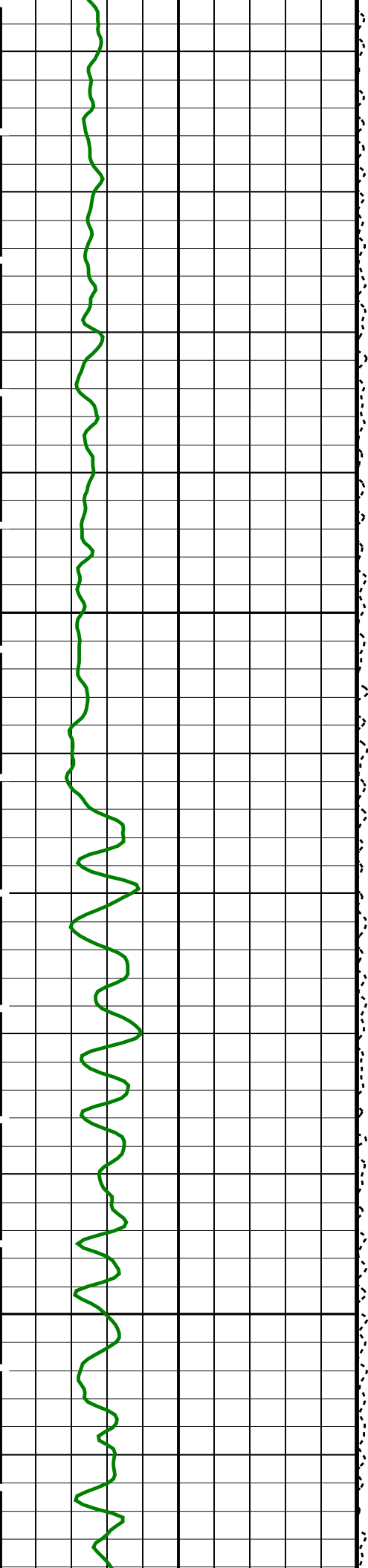


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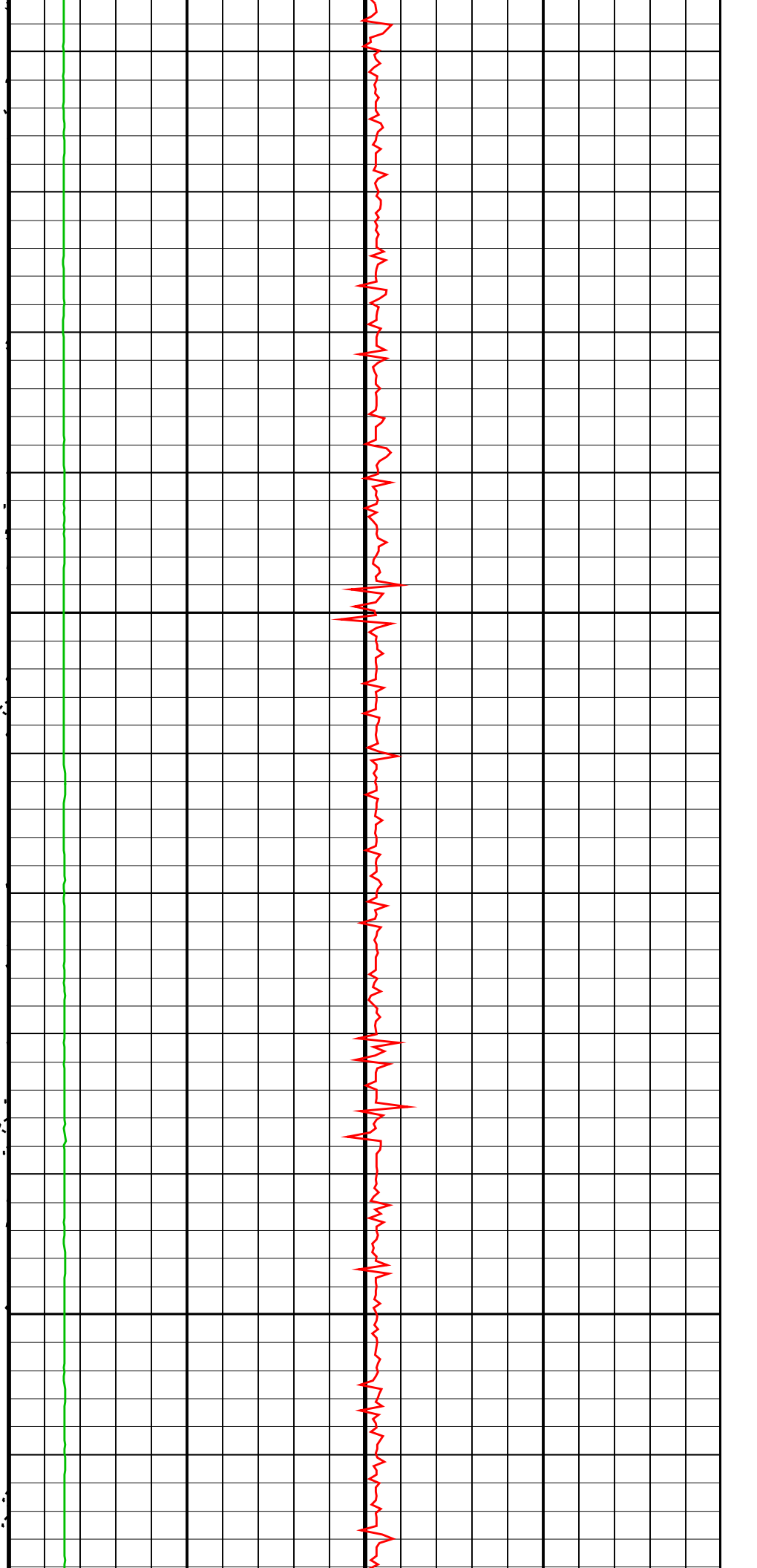


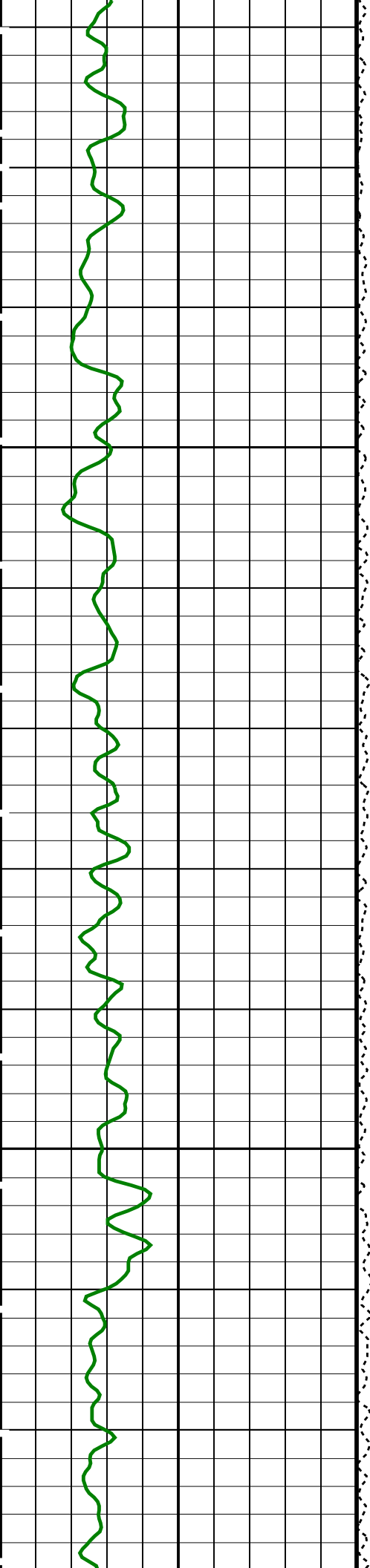




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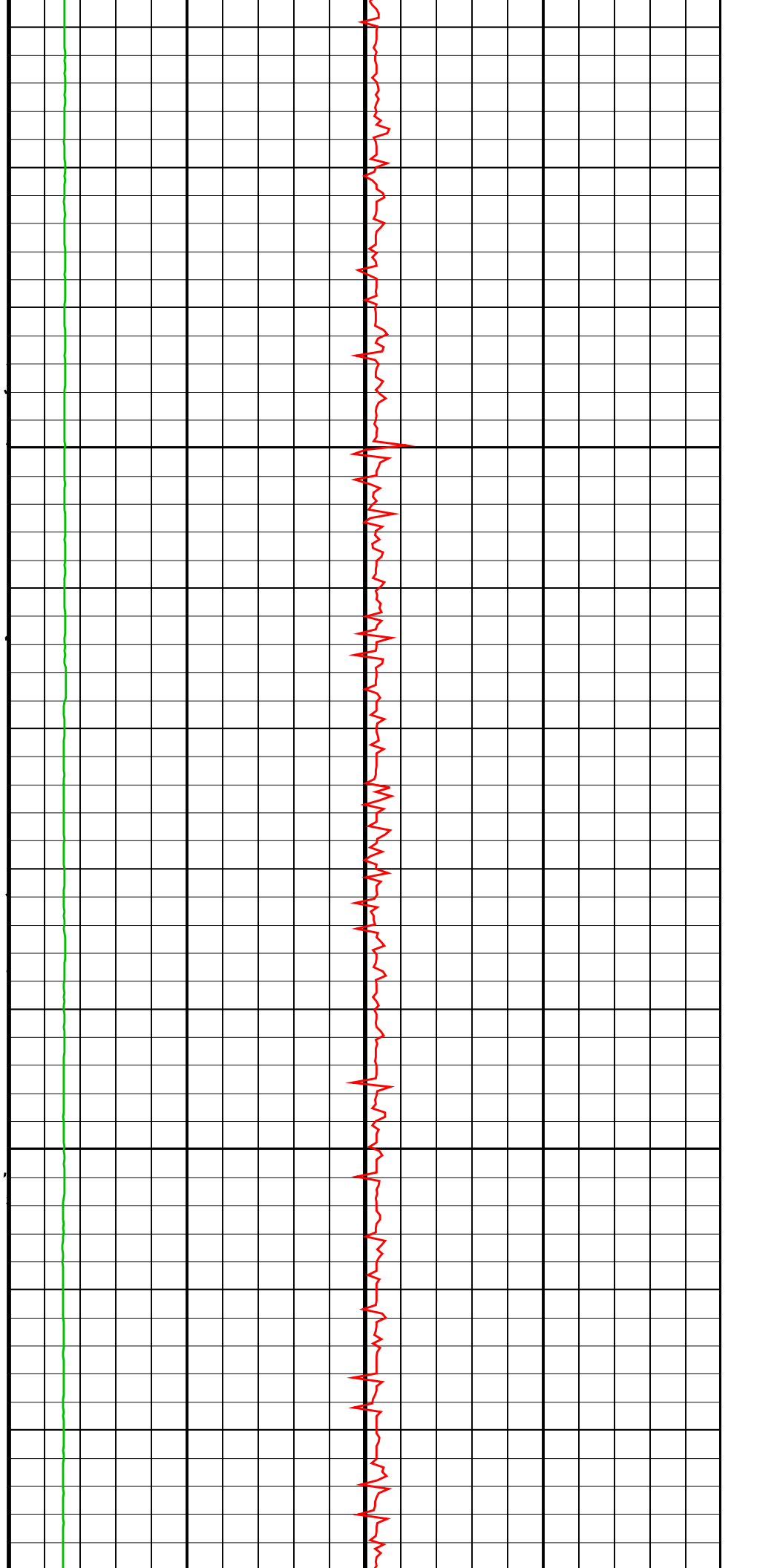
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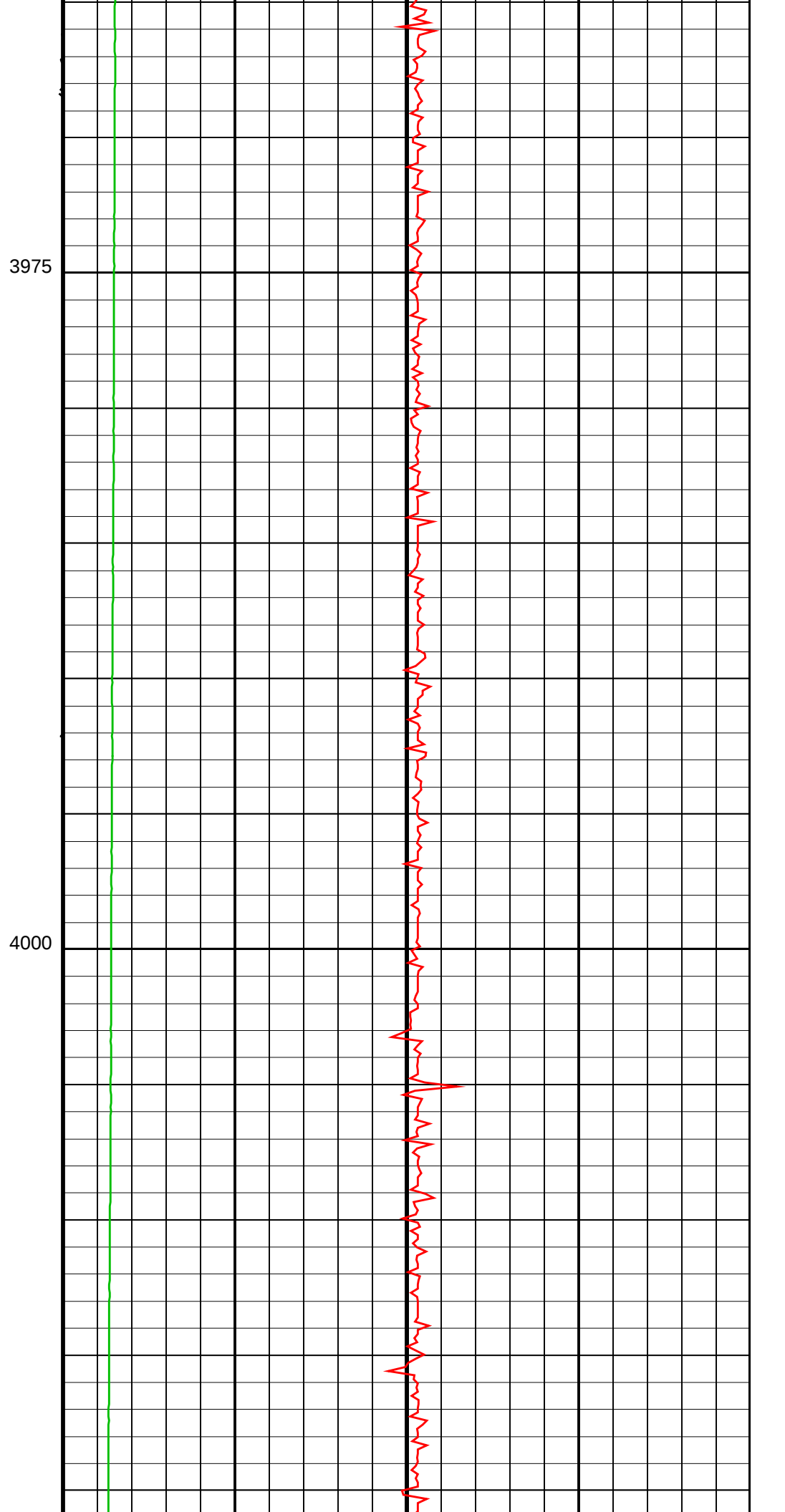
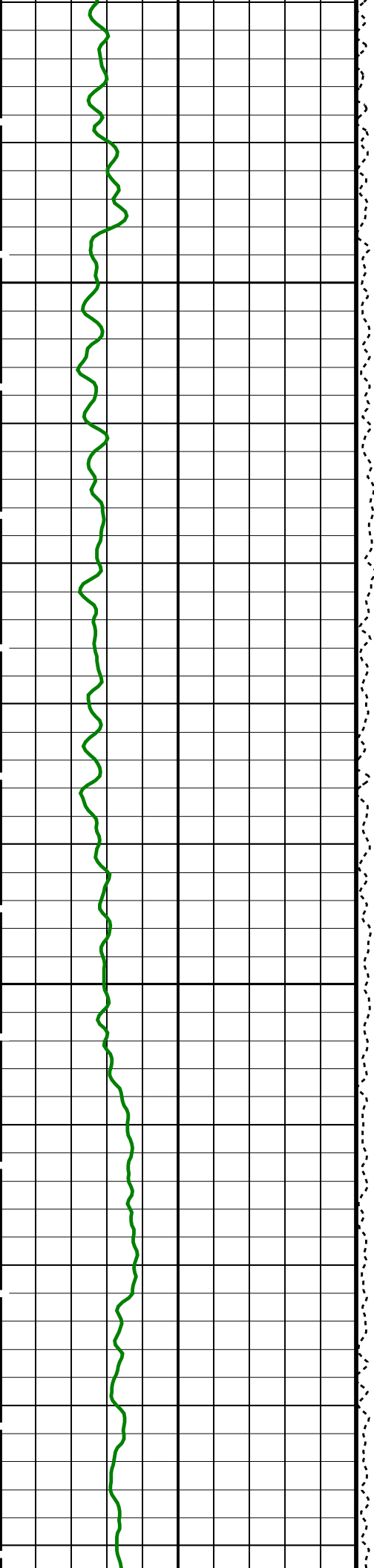


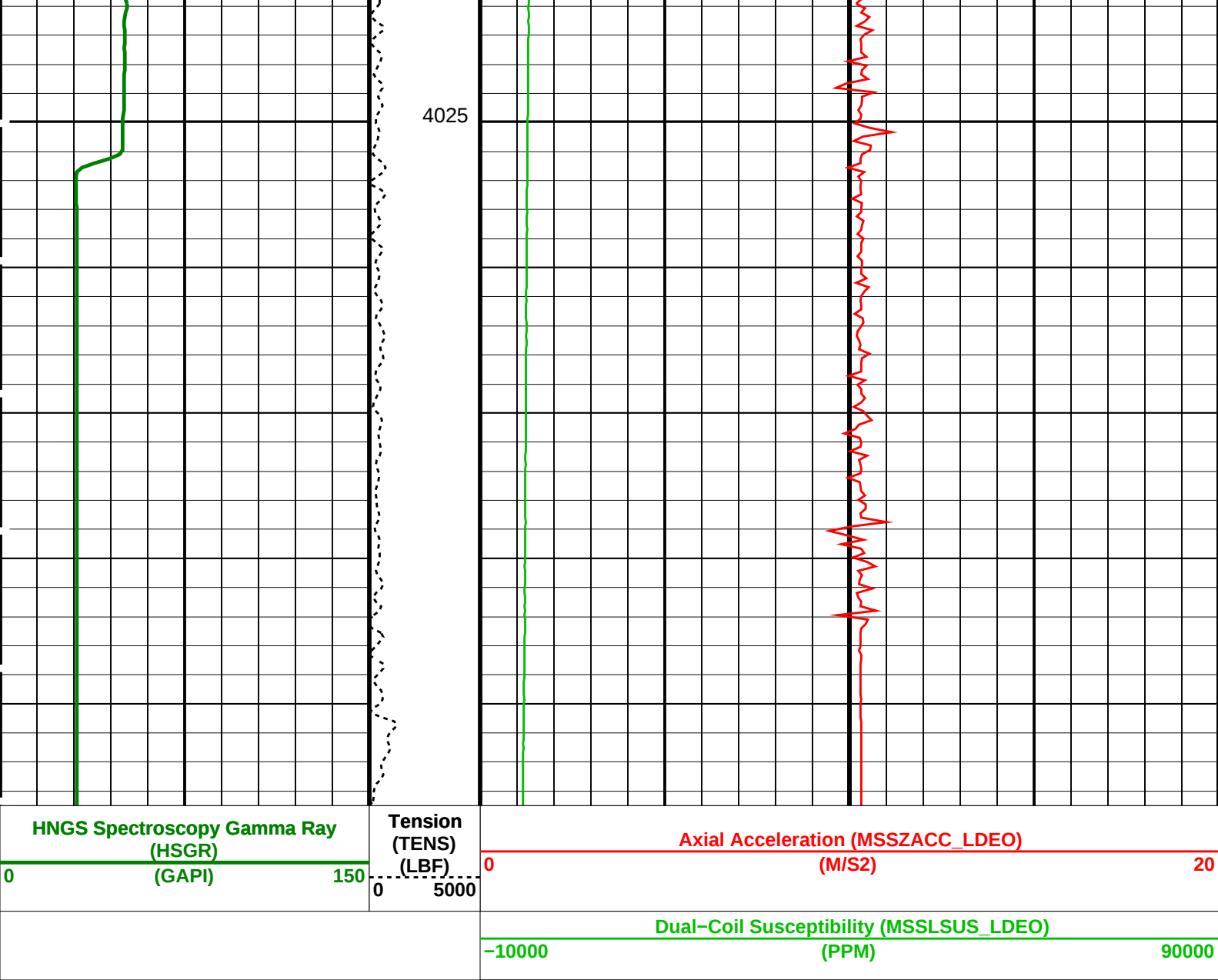


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PIP SUMMARY

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	–0.0039416	
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	1.00924					
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.02107					
EDTC-B: Enhanced DTS Cartridge							
BHS	Borehole Status	OPEN					
GCSE	Generalized Caliper Selection	LCAL					
System and Miscellaneous							
BS	Bit Size	9.875	IN				
DFD	Drilling Fluid Density	1.05	G/C3				
Format: MSS_Logging		Vertical Scale: 1:200					
		Graphics File Created: 15-Nov-2022 02:31					
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	SKK-5169-EDTCB						
Output DLIS Files							
DEFAULT	MSS_LDEO_HRLA_LDL_009LUP	FN:9	PRODUCER 15-Nov-2022 02:31				
RTB	MSS_LDEO_HRLA_LDL_009LUP	FN:10	PRODUCER 15-Nov-2022 02:31				
Schlumberger 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: 14-Nov-2022 23:20 After: 15-Nov-2022 7:18							
HRLT M0-M1 Voltage Plus - 0	0	N/A	-318.9	-318.7	0.1986	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-332.5	-333.6	-1.074	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-339.4	-340.2	-0.7526	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-329.4	-330.2	-0.8720	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-319.8	-320.2	-0.4239	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-321.4	-321.7	-0.3380	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	322.4	323.7	1.290	9.681	UV
HRLT M0-M1 Voltage Plus - 7	0	N/A	-322.7	-322.7	0	9.681	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M12							
Before: 14-Nov-2022 23:20 After: 15-Nov-2022 7:18							
HRLT M1-M2 Voltage Plus - 0	0	N/A	1741	1740	-0.6158	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1818	1824	6.267	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1850	1854	4.215	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1796	1801	5.094	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1744	1747	2.503	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1755	1757	1.852	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1770	-1777	-7.291	53.42	UV
HRLT M1-M2 Voltage Plus - 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M23							
Before: 14-Nov-2022 23:20 After: 15-Nov-2022 7:18							
HRLT M2-M3 Voltage Plus - 0	0	N/A	1732	1731	-0.5532	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1819	1825	5.648	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1853	1857	4.161	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1803	1808	5.479	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1745	1748	2.589	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1757	1759	2.004	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1760	-1767	-7.358	53.42	UV
HRLT M2-M3 Voltage Plus - 7	0	N/A	1781	1781	0	53.42	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34							
Before: 14–Nov–2022 23:20 After: 15–Nov–2022 7:18							
HRLT A3–A4 Voltage Plus – 0	0	N/A	68660	68640	–19.45	2100	UV
HRLT A3–A4 Voltage Plus – 1	0	N/A	71950	72210	251.4	2100	UV
HRLT A3–A4 Voltage Plus – 2	0	N/A	73590	73770	171.7	2100	UV
HRLT A3–A4 Voltage Plus – 3	0	N/A	71840	72050	214.0	2100	UV
HRLT A3–A4 Voltage Plus – 4	0	N/A	69510	69630	116.3	2100	UV
HRLT A3–A4 Voltage Plus – 5	0	N/A	69990	70080	99.02	2100	UV
HRLT A3–A4 Voltage Plus – 6	0	N/A	–68610	–68920	–306.0	2100	UV
HRLT A3–A4 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V45							
Before: 14–Nov–2022 23:20 After: 15–Nov–2022 7:18							
HRLT A4–A5 Voltage Plus – 0	0	N/A	68740	68730	–10.03	2100	UV
HRLT A4–A5 Voltage Plus – 1	0	N/A	72170	72410	244.1	2100	UV
HRLT A4–A5 Voltage Plus – 2	0	N/A	73780	73950	160.2	2100	UV
HRLT A4–A5 Voltage Plus – 3	0	N/A	71990	72200	215.6	2100	UV
HRLT A4–A5 Voltage Plus – 4	0	N/A	69620	69730	107.0	2100	UV
HRLT A4–A5 Voltage Plus – 5	0	N/A	70080	70160	83.48	2100	UV
HRLT A4–A5 Voltage Plus – 6	0	N/A	–68820	–69130	–305.1	2100	UV
HRLT A4–A5 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V56								
Before: 14–Nov–2022 23:20 After: 15–Nov–2022 7:18								
HRLT A5–A6 Voltage Plus – 0	0	N/A	68590	68590	–1.883	2100	UV	
HRLT A5–A6 Voltage Plus – 1	0	N/A	72010	72270	267.0	2100	UV	
HRLT A5–A6 Voltage Plus – 2	0	N/A	73630	73820	182.4	2100	UV	
HRLT A5–A6 Voltage Plus – 3	0	N/A	71840	72070	224.7	2100	UV	
HRLT A5–A6 Voltage Plus – 4	0	N/A	69490	69600	113.6	2100	UV	
HRLT A5–A6 Voltage Plus – 5	0	N/A	69950	70050	91.91	2100	UV	
HRLT A5–A6 Voltage Plus – 6	0	N/A	–68670	–68970	–301.6	2100	UV	
HRLT A5–A6 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV	

High Resolution Laterolog Array – B Wellsite Calibration – HRLT VTP							
Before: 14–Nov–2022 23:20 After: 15–Nov–2022 7:18							
HRLT Torpedo–M0 Voltage – 0	0	N/A	–68110	–68090	19.17	2100	UV
HRLT Torpedo–M0 Voltage – 1	0	N/A	–71810	–72050	–239.1	2100	UV
HRLT Torpedo–M0 Voltage – 2	0	N/A	–73470	–73620	–154.8	2100	UV
HRLT Torpedo–M0 Voltage – 3	0	N/A	–71750	–71950	–204.7	2100	UV
HRLT Torpedo–M0 Voltage – 4	0	N/A	–69440	–69540	–98.29	2100	UV
HRLT Torpedo–M0 Voltage – 5	0	N/A	–69900	–69980	–80.98	2100	UV
HRLT Torpedo–M0 Voltage – 6	0	N/A	68420	68710	291.1	2100	UV
HRLT Torpedo–M0 Voltage – 7	0	N/A	–70000	–70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT VBD							
Before: 14–Nov–2022 23:20 After: 15–Nov–2022 7:18							
HRLT Bridle#9–M0 Voltage – 0	0	N/A	–68150	–68120	22.16	2100	UV
HRLT Bridle#9–M0 Voltage – 1	0	N/A	–71890	–72150	–254.7	2100	UV
HRLT Bridle#9–M0 Voltage – 2	0	N/A	–73550	–73730	–179.1	2100	UV
HRLT Bridle#9–M0 Voltage – 3	0	N/A	–71820	–72030	–208.3	2100	UV
HRLT Bridle#9–M0 Voltage – 4	0	N/A	–69490	–69590	–104.0	2100	UV
HRLT Bridle#9–M0 Voltage – 5	0	N/A	–69940	–70020	–80.37	2100	UV
HRLT Bridle#9–M0 Voltage – 6	0	N/A	68500	68810	305.9	2100	UV
HRLT Bridle#9–M0 Voltage – 7	0	N/A	–70000	–70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT ISO								
Before: 14–Nov–2022 23:20 After: 15–Nov–2022 7:18								
HRLT Source Current Plus – 0	0	N/A	284.3	284.3	–0.07874	8.520	UA	
HRLT Source Current Plus – 1	0	N/A	281.1	281.1	0	8.520	UA	
HRLT Source Current Plus – 2	0	N/A	281.1	281.1	0	8.520	UA	
HRLT Source Current Plus – 3	0	N/A	281.1	281.1	0	8.520	UA	
HRLT Source Current Plus – 4	0	N/A	281.1	281.1	0	8.520	UA	
HRLT Source Current Plus – 5	0	N/A	281.1	281.1	0	8.520	UA	
HRLT Source Current Plus – 6	0	N/A	281.1	281.1	0	8.520	UA	
HRLT Source Current Plus – 7	0	N/A	281.1	281.1	0	8.520	UA	

High Resolution Laterolog Array – B Wellsite Calibration – HRLT MV								
Before: 14–Nov–2022 23:20 After: 15–Nov–2022 7:18								
HRLT Vertical Voltage PI – 0	0	N/A	–320.5	–320.1	0.4076	9.681	UV	
HRLT Vertical Voltage PI – 1	0	N/A	–326.3	–327.1	–0.8730	9.681	UV	
HRLT Vertical Voltage PI – 2	0	N/A	–332.0	–332.6	–0.5365	9.681	UV	
HRLT Vertical Voltage PI – 3	0	N/A	–320.9	–321.5	–0.6025	9.681	UV	
HRLT Vertical Voltage PI – 4	0	N/A	–309.0	–309.1	–0.1581	9.681	UV	
HRLT Vertical Voltage PI – 5	0	N/A	–325.6	–325.6	–0.01050	9.681	UV	
HRLT Vertical Voltage PI – 6	0	N/A	328.9	329.9	0.9764	9.681	UV	
HRLT Vertical Voltage PI – 7	0	N/A	–322.7	–322.7	0	9.681	UV	

Hostile Litho-Density Sonde Wellsite Calibration – Background Measurement							
Master: 5-Oct-2022 20:03 Before: 14-Nov-2022 23:23 After: 15-Nov-2022 7:21							
SS Cs Resolution Bkg	9.000	8.014	8.099	7.995	-0.1047	1.800	%
LS Cs Resolution Bkg	9.000	7.841	7.812	7.814	0.002215	1.800	%

LSW3 Resolution Bkg	3.000	7.041	7.012	7.014	0.002219	1.000	%
LSW1 Background	100.0	57.74	56.61	58.04	1.432	3.000	CPS
LSW2 Background	100.0	53.46	53.04	53.34	0.3015	3.000	CPS
LSW3 Background	200.0	118.1	115.0	116.4	1.351	6.000	CPS
LSW4 Background	250.0	143.3	140.0	142.6	2.593	7.500	CPS
LSW5 Background	600.0	324.1	324.2	323.1	-1.165	18.00	CPS
SSW1 Background	100.0	65.51	64.81	64.71	-0.1005	3.000	CPS
SSW2 Background	200.0	115.5	114.0	115.3	1.322	6.000	CPS
SSW3 Background	500.0	310.6	309.1	306.4	-2.659	15.00	CPS
SSW4 Background	270.0	160.3	161.4	161.4	0.008194	8.100	CPS
SSW5 Background	200.0	115.9	116.4	115.5	-0.8724	6.000	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Aluminum Measurement							
Master: 5-Oct-2022 20:50							
LSW1 Aluminum	600.0	490.7	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	690.4	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	822.9	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	408.8	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	375.6	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2111	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	5697	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	7965	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3317	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	404.0	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Lithology Measurement							
Master: 5-Oct-2022 20:43							
LSW1 Iron	400.0	302.1	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	511.1	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	668.8	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	343.1	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	319.1	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1481	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4589	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	7033	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	2925	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	347.3	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Caliper Calibration							
Before: 5-Oct-2022 21:22							
HLDS Caliper Small Ring	12.00	N/A	14.83	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	18.33	N/A	N/A	N/A	IN
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: Calibration out of date 13-Feb-2022 21:25 Before: 14-Nov-2022 23:24 After: 15-Nov-2022 7:22							
Na 511 Peak Loc	40.00	39.60	39.59	39.67	0.07758	1.000	
Na 511 Peak Res	15.50	17.00	16.22	16.22	-0.001005	2.000	%
High Voltage	1150	1202	1201	1204	3.310	N/A	V
Na 1785 Peak Loc	142.6	142.6	141.6	140.2	-1.370	7.000	
Na 1785 Peak Res	8.500	9.539	8.979	11.83	2.851	2.000	%
Temperature	15.50	27.53	24.86	24.14	-0.7121	N/A	DEGC
Na Count Rate	45.00	10.98	6.407	6.633	0.2256	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: Calibration out of date 13-Feb-2022 21:25 Before: 14-Nov-2022 23:24 After: 15-Nov-2022 7:22							
Na 511 Peak Loc	40.00	40.51	39.79	39.40	-0.3886	1.000	
Na 511 Peak Res	15.50	16.47	15.87	16.63	0.7582	2.000	%
High Voltage	1150	1129	1083	1085	2.162	N/A	V
Na 1785 Peak Loc	142.6	145.0	142.3	143.3	1.028	7.000	
Na 1785 Peak Res	8.500	9.043	9.391	9.125	-0.2663	2.000	%
Temperature	15.50	28.33	24.13	24.45	0.3186	N/A	DEGC
Na Count Rate	45.00	11.22	6.391	6.682	0.2911	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: Calibration out of date 13-Feb-2022 21:25 Before: 14-Nov-2022 23:24 After: 15-Nov-2022 7:22							
Coincidence Count Rate Ratio	1.000	0.9687	1.008	1.001	-0.006685	0.05000	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 14-Nov-2022 23:19							
EDTC Z-Axis Acceleration	9.810	N/A	9.808	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: 14-Nov-2022 23:21 After: 15-Nov-2022 7:19							
Gamma Ray (Jig – Bkg)	111.4	N/A	111.4	102.1	-9.263	10.13	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	151.3	-13.72	15.00	GAPI

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		-318.9	-322.7	-280.7	-379.7
	After		-318.7			
1	Before		-332.5	-322.7	-280.7	-379.7
	After		-333.6			
2	Before		-339.4	-322.7	-280.7	-379.7
	After		-340.2			
3	Before		-329.4	-322.7	-280.7	-379.7
	After		-330.2			
4	Before		-319.8	-322.7	-280.7	-379.7
	After		-320.2			
5	Before		-321.4	-322.7	-280.7	-379.7
	After		-321.7			
6	Before		322.4	322.7	379.7	280.7
	After		323.7			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
(Minimum) (Nominal) (Maximum)						
Before: 14-Nov-2022 23:20						
After: 15-Nov-2022 7:18						

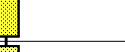
High Resolution Laterolog Array - B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1741	1781	2095	1549
	After		1740			
1	Before		1818	1781	2095	1549
	After		1824			
2	Before		1850	1781	2095	1549
	After		1854			
3	Before		1796	1781	2095	1549
	After		1801			
4	Before		1744	1781	2095	1549
	After		1747			
5	Before		1755	1781	2095	1549
	After		1757			
6	Before		-1770	-1781	-1549	-2095
	After		-1777			
7	Before		1781	1781	2095	1549
	After		1781			

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1732	1781	2095	1549
	After		1731			
1	Before		1819	1781	2095	1549
	After		1825			
2	Before		1853	1781	2095	1549
	After		1857			
3	Before		1803	1781	2095	1549
	After		1808			
4	Before		1745	1781	2095	1549
	After		1748			
5	Before		1757	1781	2095	1549
	After		1759			
6	Before		-1760	-1781	-1549	-2095
	After		-1767			
7	Before		1781	1781	2095	1549
	After		1781			
		(Minimum) (Nominal) (Maximum)				

Before: 14–Nov–2022 23:20

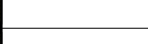
After: 15–Nov–2022 7:18

Before: 14-Nov-2022 23:20

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68740	70000	82360	60900
	After		68730			
1	Before		72170	70000	82360	60900
	After		72410			
2	Before		73780	70000	82360	60900
	After		73950			
3	Before		71990	70000	82360	60900
	After		72200			
4	Before		69620	70000	82360	60900
	After		69730			
5	Before		70080	70000	82360	60900
	After		70160			
6	Before		-68820	-70000	-60900	-82360
	After		-69130			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

Before: 14–Nov–2022 23:20

After: 15–Nov–2022 7:18

HRLT VTP							
Idx	Phase	HRLT Torpedo-M0 Voltage Plus UV		Value	Nominal	Maximum	Minimum
0	Before			-68110	-70000	-60900	-82360
	After			-68090			
1	Before			-71810	-70000	-60900	-82360
	After			-72050			
2	Before			-73470	-70000	-60900	-82360
	After			-73620			
3	Before			-71750	-70000	-60900	-82360
	After			-71950			
4	Before			-69440	-70000	-60900	-82360
	After			-69540			
5	Before			-69900	-70000	-60900	-82360
	After			-69980			
6	Before			68420	70000	82360	60900
	After			68710			
7	Before			-70000	-70000	-60900	-82360
	After			-70000			
		(Minimum)	(Nominal)	(Maximum)			
Before: 14-Nov-2022 23:20							
After: 15-Nov-2022 7:18							

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VBD							
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV		Value	Nominal	Maximum	Minimum
0	Before			-68150	-70000	-60900	-82360
	After			-68120			
1	Before			-71890	-70000	-60900	-82360
	After			-72150			
2	Before			-73550	-70000	-60900	-82360
	After			-73730			
3	Before			-71820	-70000	-60900	-82360
	After			-72030			
4	Before			-69490	-70000	-60900	-82360
	After			-69590			
5	Before			-69940	-70000	-60900	-82360
	After			-70020			
6	Before			68500	70000	82360	60900
	After			68810			
7	Before			-70000	-70000	-60900	-82360
	After			-70000			
		(Minimum)	(Nominal)	(Maximum)			
Before: 14–Nov–2022 23:20							
After: 15–Nov–2022 7:18							

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT ISO							
Idx	Phase	HRLT Source Current Plus UA		Value	Nominal	Maximum	Minimum
	Before			284.3			
	After						

0	Before		284.3	284.0	334.1	247.0
1	Before		281.1	281.1	330.7	244.4
	After		281.1			
2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
(Minimum) (Nominal) (Maximum)						

Before: 14-Nov-2022 23:20

After: 15-Nov-2022 7:18

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.5	-322.7	-280.7	-379.7
	After		-320.1			
1	Before		-326.3	-322.7	-280.7	-379.7
	After		-327.1			
2	Before		-332.0	-322.7	-280.7	-379.7
	After		-332.6			
3	Before		-320.9	-322.7	-280.7	-379.7
	After		-321.5			
4	Before		-309.0	-322.7	-280.7	-379.7
	After		-309.1			
5	Before		-325.6	-322.7	-280.7	-379.7
	After		-325.6			
6	Before		328.9	322.7	379.7	280.7
	After		329.9			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
(Minimum) (Nominal) (Maximum)						

Before: 14-Nov-2022 23:20

After: 15-Nov-2022 7:18

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 35
HLDV – D 35

Auxiliary Equipment:
Hostile Litho Density High Voltage Housi
Hostile Litho Density Pad

HEH – H 35
HLDP – C 35

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		8.014	Master		7.841	Master		57.74
Before		8.099	Before		7.812	Before		56.61
After		7.995	After		7.814	After		58.04
7.000 (Minimum)		9.000 (Nominal)	7.000 (Minimum)		9.000 (Nominal)	55.00 (Minimum)		150.0 (Maximum)
Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value	Phase	LSW4 Background CPS	Value
Master		53.46	Master		118.1	Master		143.3
Before		53.04	Before		115.0	Before	EXCEEDS LIMIT	140.0
After		53.34	After		116.4	After		142.6
50.00 (Minimum)		140.0 (Maximum)	110.0 (Minimum)		290.0 (Maximum)	140.0 (Minimum)		360.0 (Maximum)
Phase	LSW5 Background CPS	Value	Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value
Master	EXCEEDS LIMIT	324.1	Master		65.51	Master		115.5
Before	EXCEEDS LIMIT	324.2	Before		64.81	Before		114.0
After	EXCEEDS LIMIT	323.1	After		64.71	After		115.3
330.0 (Minimum)		830.0 (Maximum)	55.00 (Minimum)		150.0 (Maximum)	100.0 (Minimum)		260.0 (Maximum)
Phase	SSW3 Background CPS	Value	Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value
Master		310.6	Master		160.3	Master		115.9
Before		309.1	Before		161.4	Before		116.4
After		306.4	After		161.4	After		115.5
280.0 (Minimum)		700.0 (Maximum)	150.0 (Minimum)		380.0 (Maximum)	110.0 (Minimum)		270.0 (Maximum)
Master: 5–Oct–2022 20:03			Before: 14–Nov–2022 23:23			After: 15–Nov–2022 7:21		

Litho–Density Spectroscopy Cartridge – B / Equipment Identification

Primary Equipment:
LDSC Cartridge LDSC – B 326

Auxiliary Equipment:
LDSC Housing LDSC – A 303

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:
HNGC Cartridge HNGC – B 304

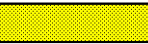
Auxiliary Equipment:
HNGC Housing HNGH – A 3

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:
HNGS Sonde HNGS – BA 99

Auxiliary Equipment:
HNGS Sonde Housing HNSH – BA 102
Gamma Source Radioactive GSR – U 6098

Detector 1 Check

Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value					
Master			39.60	Master			17.00	Master			1202					
Before			39.59	Before			16.22	Before			1201					
After			39.67	After			16.22	After			1204					
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			142.6	Master			9.539	Master			27.53					
Before			141.6	Before			8.979	Before			24.86					
After			140.2	After	EXCEEDS LIMIT		11.83	After			24.14					
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			10.98													
Before	EXCEEDS LIMIT		6.407													
After	EXCEEDS LIMIT		6.633													
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)				
Master: Calibration out of date 13-Feb-2022 21:25 Before: 14-Nov-2022 23:24 After: 15-Nov-2022 7:22																

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			40.51	Master			16.47	Master			1129		
Before			39.79	Before			15.87	Before			1083		
After			39.40	After			16.63	After			1085		
37.50 (Minimum)			40.00 (Nominal)	43.50 (Maximum)			12.00 (Minimum)			15.50 (Nominal)	19.00 (Maximum)		
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value		
Master			145.0	Master			9.043	Master			28.33		
Before			142.3	Before			9.391	Before			24.13		
After			143.3	After			9.125	After			24.45		
135.0 (Minimum)			142.6 (Nominal)	150.3 (Maximum)			7.000 (Minimum)			8.500 (Nominal)	11.00 (Maximum)		
Phase	Na Count Rate CPS		Value										
Master			11.22										
Before	EXCEEDS LIMIT		6.391										
After	EXCEEDS LIMIT		6.682										
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)	
Master: Calibration out of date 13-Feb-2022 21:25 Before: 14-Nov-2022 23:24 After: 15-Nov-2022 7:22													

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9687
Before		1.008
After		1.001
0.9500 (Minimum)		1.000 (Nominal)
		1.050 (Maximum)
Master: Calibration out of date 13-Feb-2022 21:25		
Before: 14-Nov-2022 23:24		
After: 15-Nov-2022 7:22		

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector	EDTG – A/B	77693
Enhanced DTS Cartridge	EDTC – B	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		9.808
	9.610 9.810 10.01 (Minimum) (Nominal) (Maximum)	
Before: 14–Nov–2022 23:19		

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			1.174	Before			111.4	Before			165.0
After			8.755	After			102.1	After			151.3
030.00120.0 (Minimum)(Nominal)(Maximum)				101.3111.4121.5 (Minimum)(Nominal)(Maximum)				150.0165.0180.0 (Minimum)(Nominal)(Maximum)			
Before: 14–Nov–2022 23:21				After: 15–Nov–2022 7:19							

Company:	International Ocean Discovery Program	Schlumberger
Well:	Expedition 397, Site U1587C	
Field:	Iberian Margin Paleoclimate	
Rig:	JOIDES Resolution	
Country:	Portugal	
High Resolution Laterolog (HRLA)		
Litho Density (HLDS)		
Natural Gamma / MSS (HNGS/MSS)		