



Company: International Ocean Discovery Program

Well: **Expedition 399, Site U1601C**

Field: **Building Blocks of Life, Atlantis Massif**

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

Rig:	JOIDES Resolution				
Field:	Building Blocks of Life, Atlantis M				
Location:	Latitude: N 30° 7.9417'				
Well:	Expedition 399, Site U1601C				
Company:	International Ocean Discovery Pr				
		Porosity(APS) HRLA UBI			
LOCATION		Latitude: N 30° 7.9417' Longitude: W 42° 7.2072'		Elev.: K.B. 0.00 m G.L. -861.00 m D.F. 0.00 m	
		Permanent Datum: Sea Floor		Elev.: -861.00 m	
		Log Measured From: Rig Floor		861.00 m above Perm. Datum	
		Drilling Measured From: Rig Floor			
Ocean: North Atlantic		Max. Well Deviation 9.5 deg		Longitude W 42.12012*	
				Latitude N 30.13236*	

Logging Date			26-May-2023					
Run Number			2					
Depth Driller			2043 m					
Schlumberger Depth			1932.5 m					
Bottom Log Interval			1928 m					
Top Log Interval			855 m					
Casing Driller Size @ Depth			13.375 in @ 2043 m			@		
Casing Schlumberger			1 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	0.455 @ 0	@ 0		@	@		
Maximum Recorded Temperatures		0 degC						
Circulation Stopped		Time	25-May-2023		18:00			
Logger On Bottom		Time	26-May-2023		21:15			
Unit Number		Location	627314 Larose, LA					
Recorded By			K. Garrett					
Witnessed By			B. Rhinehart					





[illegible]

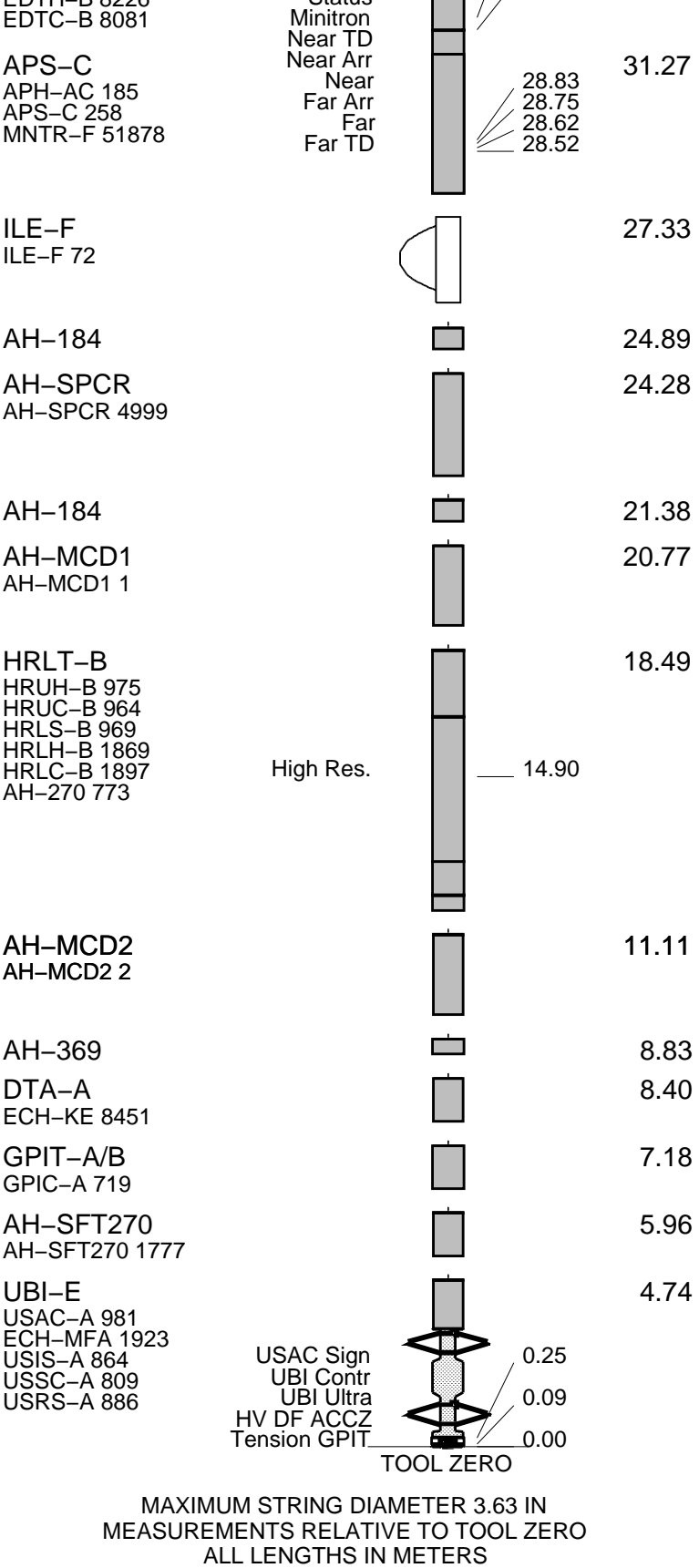
	Logging Date			
	Run Number			
	Depth Driller			
	Schlumberger Depth			
	Bottom Log Interval			
	Top Log Interval			
	Casing Driller Size @ Depth		@	
	Casing Schlumberger			
	Bit Size			
	Type Fluid In Hole			
MUD	Density	Viscosity		
	Fluid Loss	PH		
	Source Of Sample			
	RM @ Measured Temperature		@	
	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			

<p style="text-align: center;">DISCLAIMER</p> <p>THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.</p>	
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REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole drilled with RCB bottom hole assembly (BHA) using bit at 9.875" BS	
TD (Driller) 2043.2mbrf	
Drill pipe set at 891.9mbrf	
Fluid type was 1.26g/cc Barite, 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/well and while logging down.	
Hole size corrections made using caliper measurements for upward passes	bit size
used for downlog corrections.	
AHC used from 932mbrf then switched off at before fishing operation.	
Stopped sub prior to pulling into drill pipe.	

[illegible]

DOWNHOLE EQUIPMENT				
LEH-PT	MDSB_EDTC			35.00
	Mud Tempe		33.25	
AH-233	CTEM		32.19	34.06
	Gamma Ray		31.62	
AH-369	EFTB DIAG			33.69
	TelStatus			
EDTC-B	EDTCB Ele		31.27	33.25
EDTH-B 8226	Status			



Schlumberger

Downlog

MAXIS Field Log

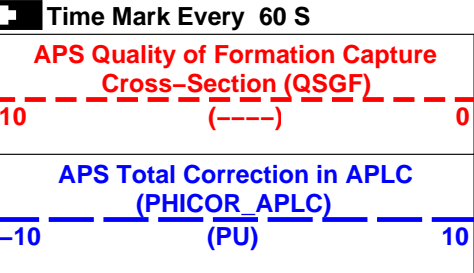
Company: International Ocean Discovery Program Well: Expedition 399, Site U1601C

Input DLIS Files					
DEFAULT	Flip_UBI_HRLA_APS_087LUP	PRODUCER	27-May-2023 01:05	1069.7 M	777.7 M

Output DLIS Files					
DEFAULT	UBI_HRLA_APS_110PUP	FN:105 PRODUCER	30-May-2023 14:38	1069.7 M	777.7 M

OP System Version: 19C0-187					
UBI-E	19C0-187	GPIT-A/B	19C0-187		
DTA-A	19C0-187	HRLT-B	19C0-187		
APS-C	19C0-187	EDTC-B	19C0-187		

PIP SUMMARY

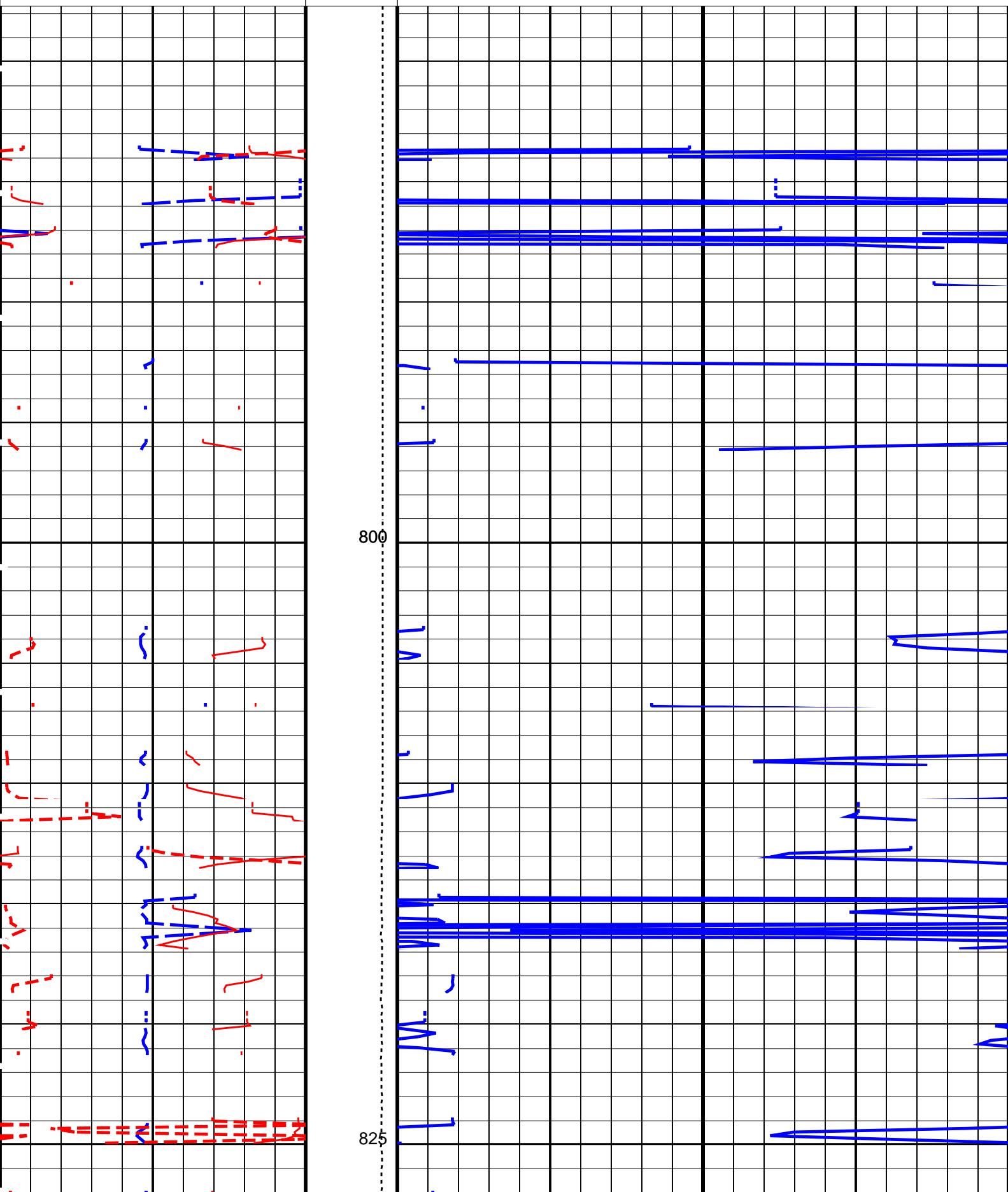


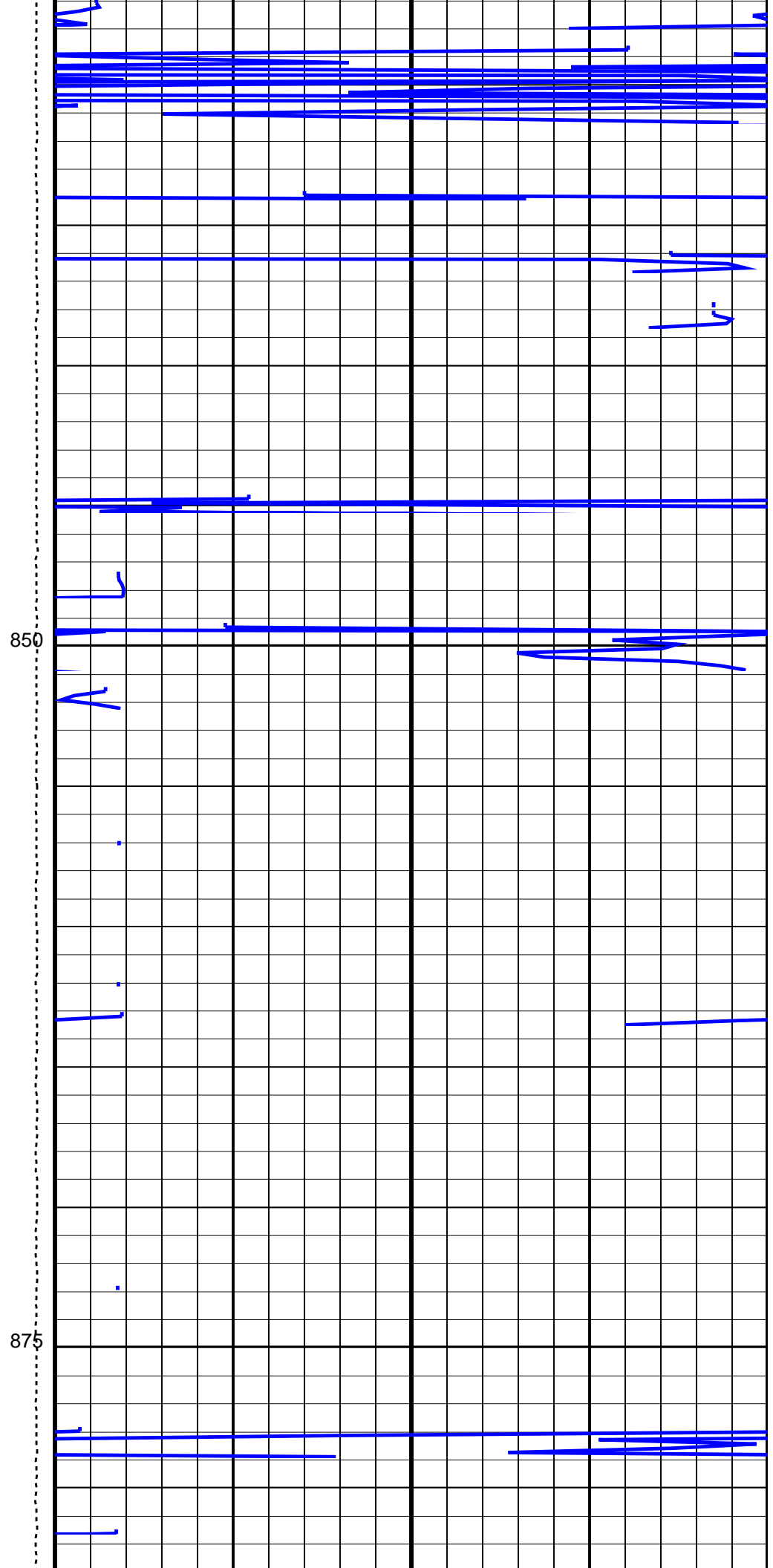
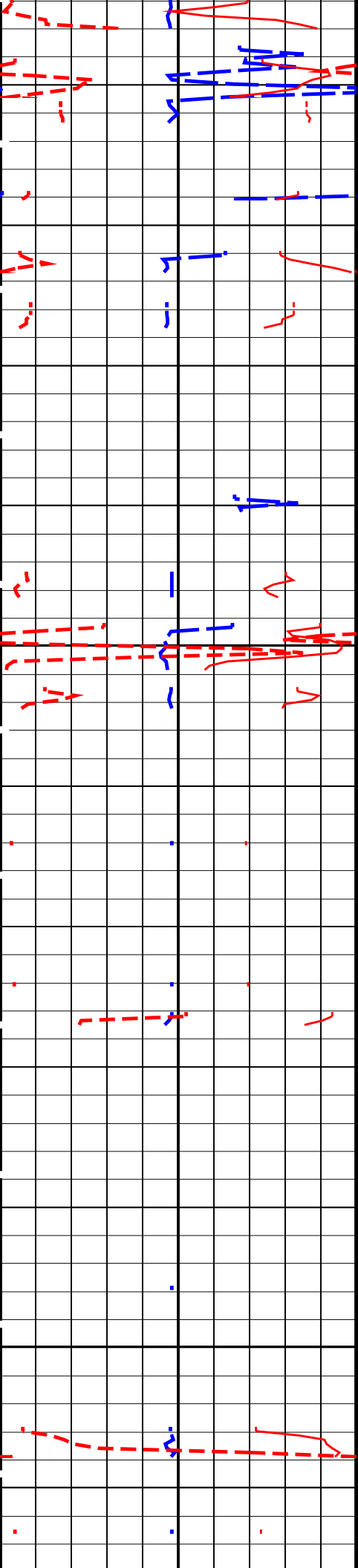
APS Formation Capture Cross-Section
(SIGF)
0 (CU) 50

APS Porosity Quality (QSDP)
(----) 10 0

Tension
(TENS)
(LBF)
10000 0

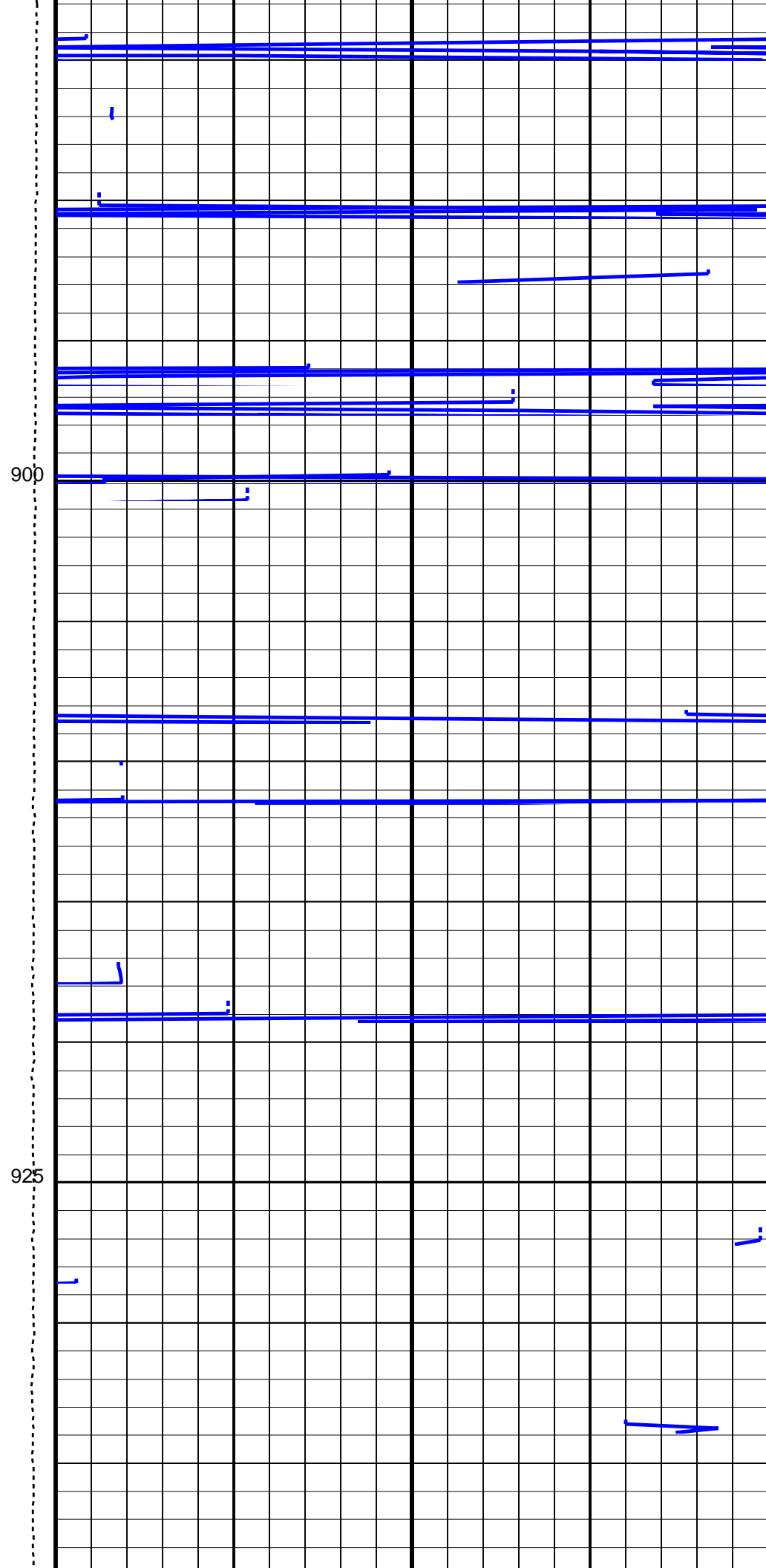
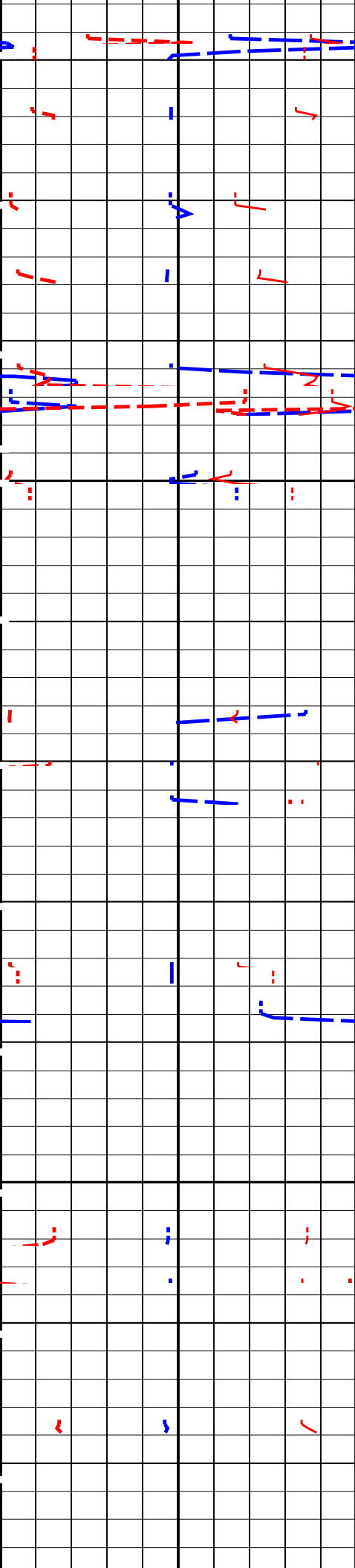
APS Near/Array Corrected Limestone Porosity (APLC)
(PU) 60 0





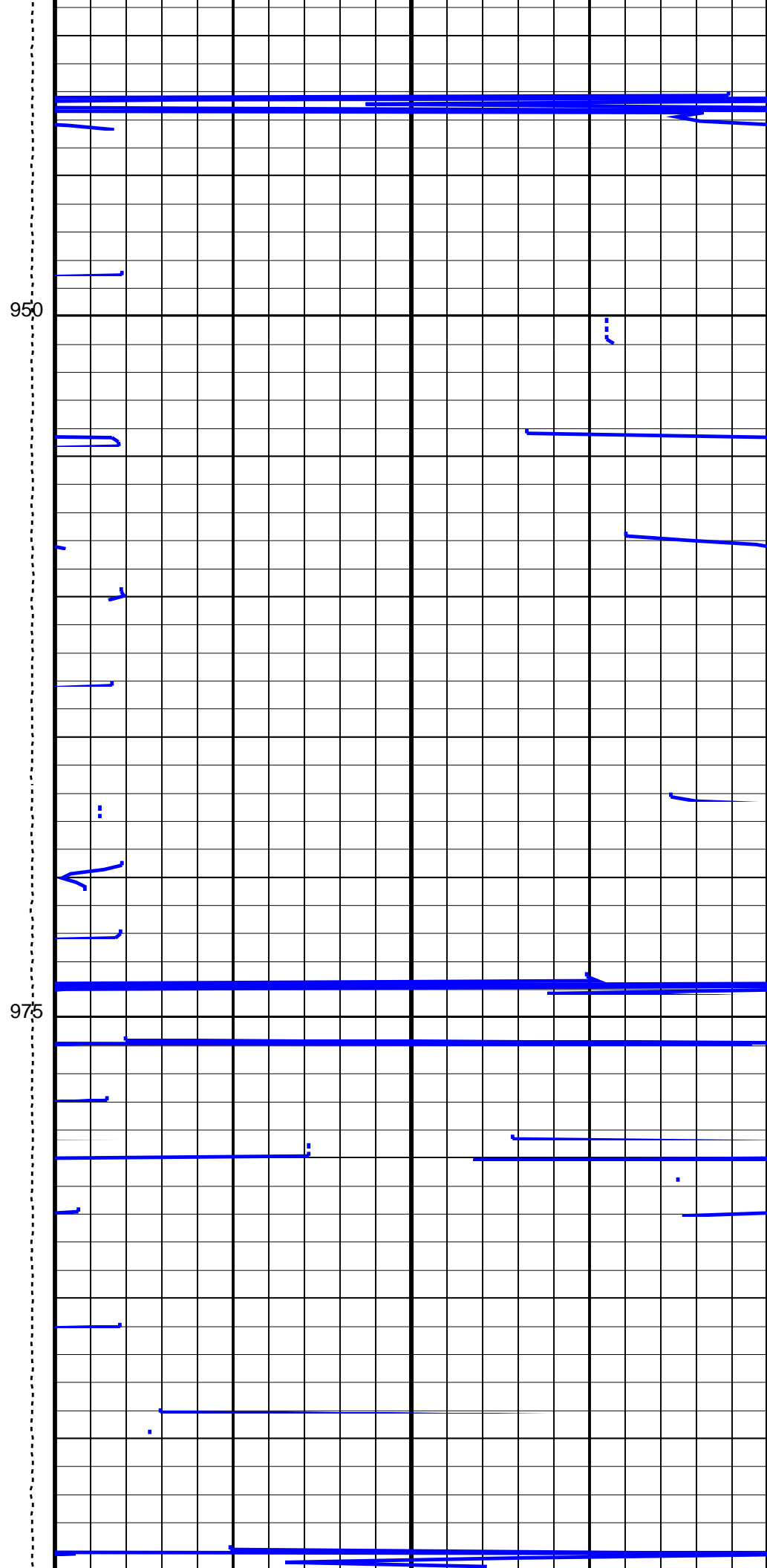
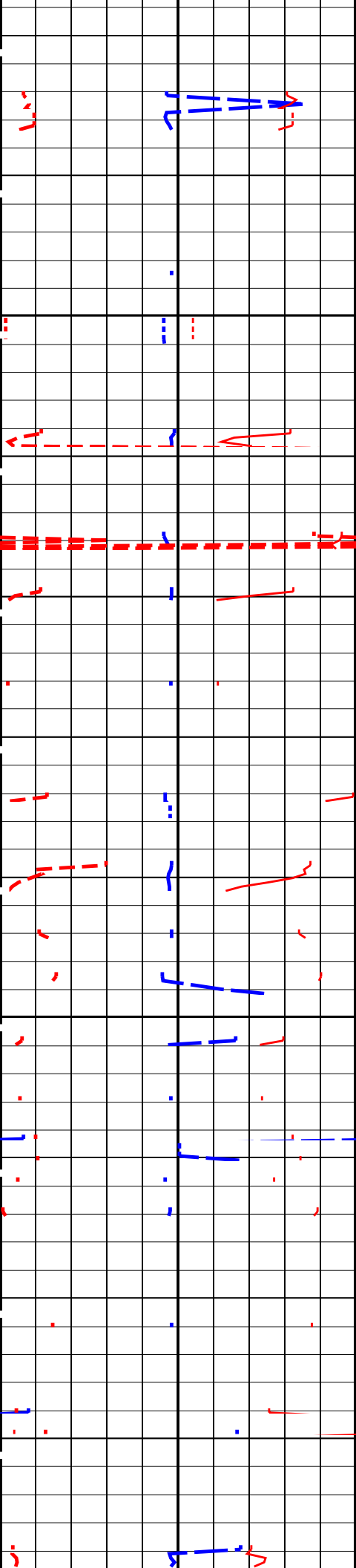
850

875



900

925



APS Porosity Quality (QSDP)	Tension (TENS) (LBF)	APS Near/Array Corrected Limestone Porosity (APLC)
10 ----- 0	60 10000 0	0
APS Formation Capture Cross-Section (SIGF)		
0 (CU) 50		
APS Total Correction in APLC (PHICOR_APLC)		
-10 (PU) 10		
APS Quality of Formation Capture Cross-Section (QSGF)		
10 ----- 0		

 Time Mark Every 60 S

Parameters			
DLIS Name	Description		Value
	UBI-E: Ultrasonic Borehole Imager – E		
	UBI Tool Working Mode for FPM	UBI3_SW250_180_1	
	UBI Tool Working Mode for Measurement	UBI3_SW250_180_1	
	Vertical Resolution	IN: 0.4	
	Default Fluid Velocity	206	US/F
	HRLT-B: High Resolution Laterolog Array – B		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
	APS-C: Accelerator-Porosity Tool		
	APS Software Version	0	
AASD	APS Thermal and Array Detectors High Voltage Setting	1964.28	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2064.72	V
AHCS	APS Holesize Correction Source	BS	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1744.47	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHFL APS	APS TNPH Borehole Fluid Type	WATER	

BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
BSCO_APS	APS TNPH Borehole Salinity Correction Option	YES	
DPPM	Density Porosity Processing Mode	STAN	
DSCO_APS	APS TNPH Density Source Correction Option	COMPUTED	
FSAL	Formation Salinity	-50000	PPM
FSCO_APS	APS TNPH Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	YES	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.11997	
NFRC	APS Near/Far Calibration Ratio	0.999643	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	68	DEGF
TNCO_APS	APS TNPH Computation Option	NO	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
DPPM	Density Porosity Processing Mode	STAN	
FSAL	Formation Salinity	-50000	PPM
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	38000.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	54.50	LB/F
DO	Depth Offset for Playback	0.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	23.00	DEGC
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
TD	Total Depth	-50000	FT

Format: APSLiquidPorosity Vertical Scale: 1:200 Graphics File Created: 30-May-2023 14:38

OP System Version: 19C0-187

UBI-E	19C0-187	GPIT-A/B	19C0-187
DTA-A	19C0-187	HRLT-B	19C0-187
APS-C	19C0-187	EDTC-B	19C0-187

Input DLIS Files

DEFAULT	Flip_UBI_HRLA_APS_087LUP	PRODUCER	27-May-2023 01:05	1069.7 M	777.7 M
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Output DLIS Files

DEFAULT	UBI_HRLA_APS_110PUP	FN:105	PRODUCER	30-May-2023 14:38
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Company: International Ocean Discovery Program Well: Expedition 399, Site U1601C

Input DLIS Files

DEFAULT	Flip_UBI_HRLA_APS_087LUP	PRODUCER	27-May-2023 01:05	1069.7 M	777.7 M
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Output DLIS Files

DEFAULT	UBI_HRLA_APS_110PUP	FN:105	PRODUCER	30-May-2023 14:38	1069.7 M	777.7 M
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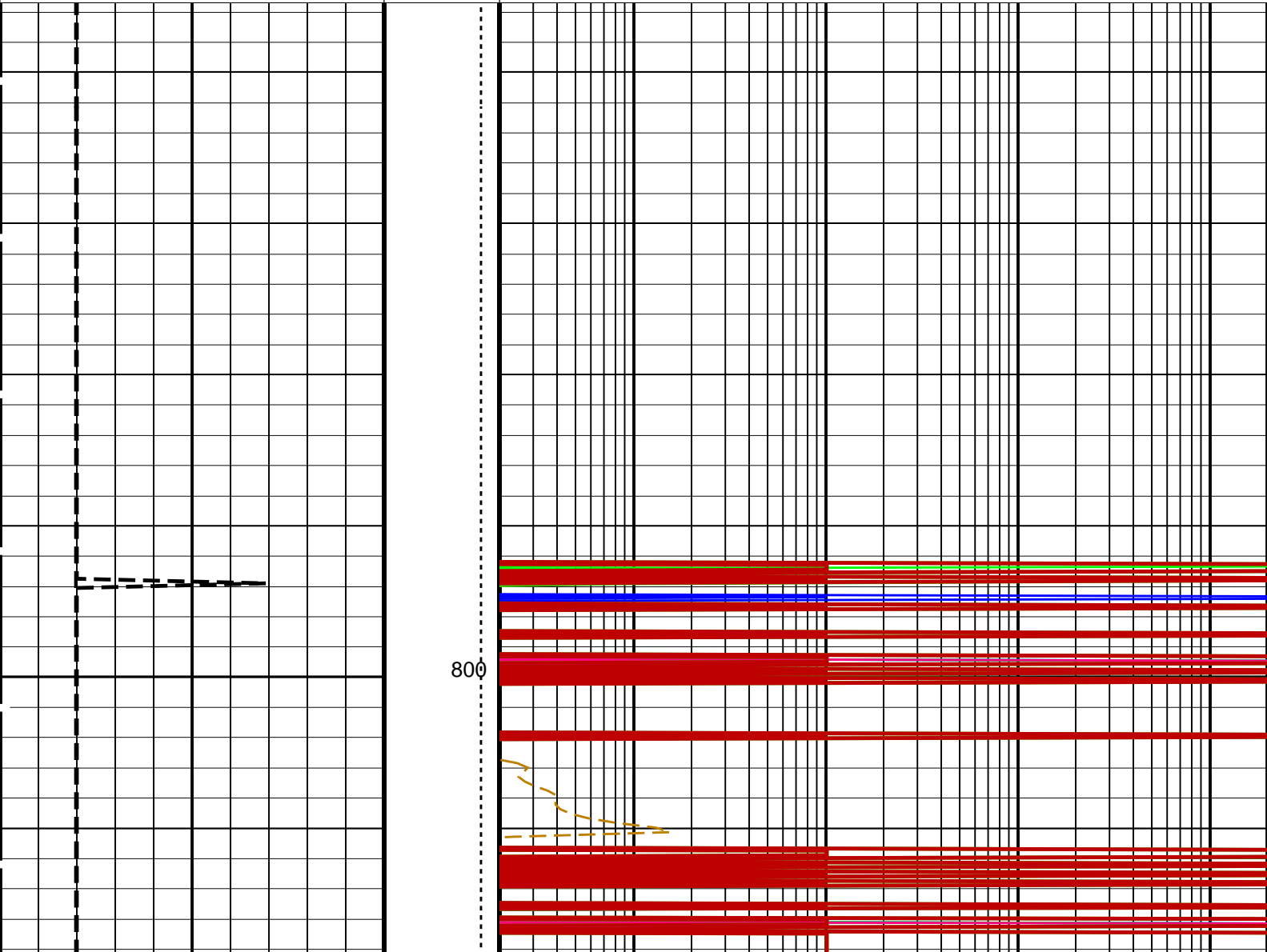
OP System Version: 19C0-187

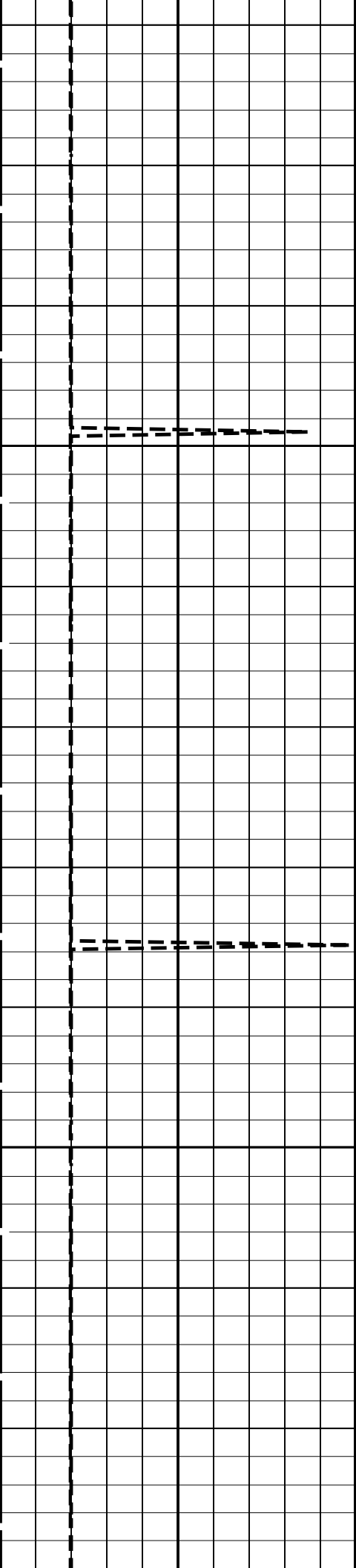
UBI-E	19C0-187	GPIT-A/B	19C0-187
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PIP SUMMARY

Time Mark Every 60 S

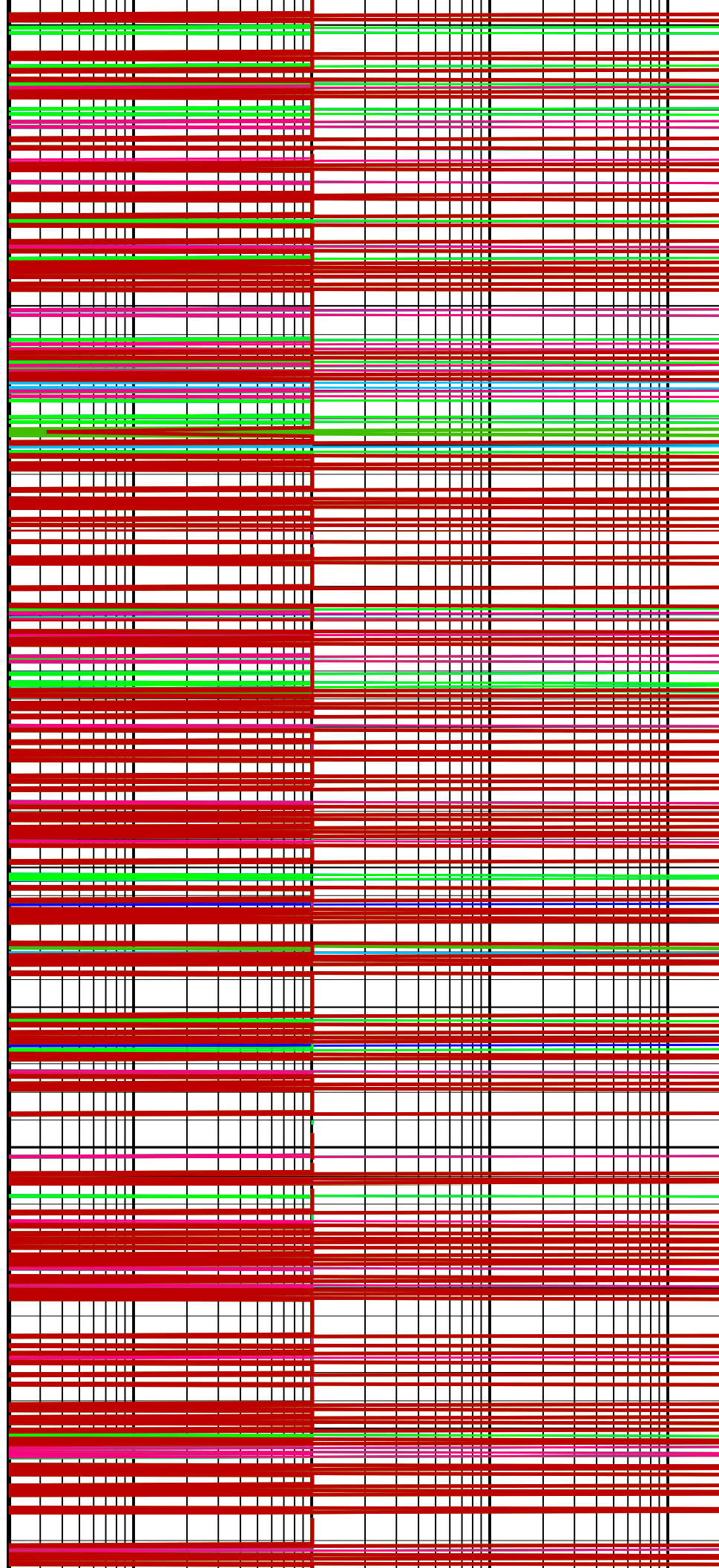
<div><div>Invasion Diameter (DI_HRLT) (IN)</div><div>050</div></div> <div><div>Bit Size (BS) (IN)</div><div>626</div></div> <div><div>Tension (TENS) (LBF)</div><div>100000</div></div>		HRLT True Resistivity (RT_HRLT)	
		0.2	2000
		Invaded Zone Resistivity (RXO_HRLT)	
		0.2	2000
		HRLT Mud Resistivity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

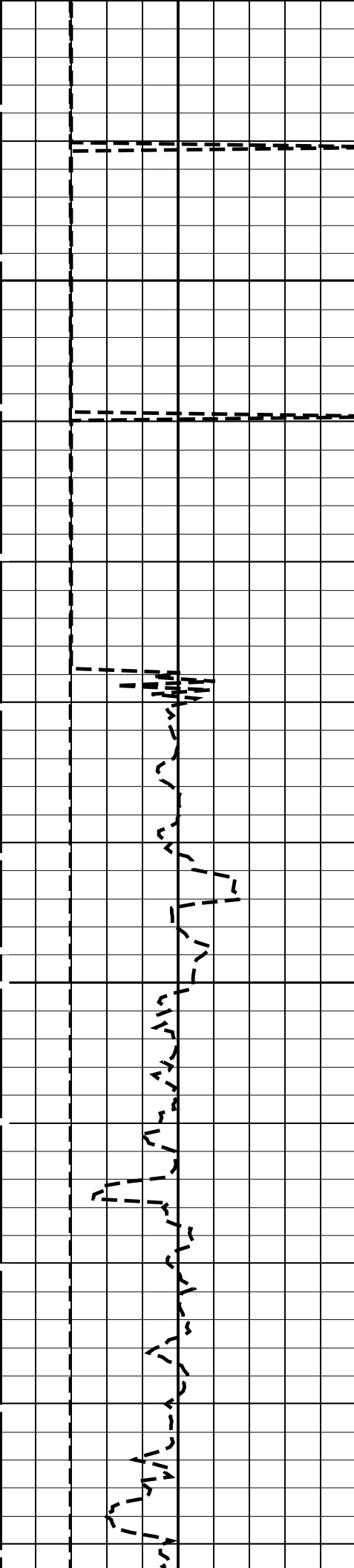




825

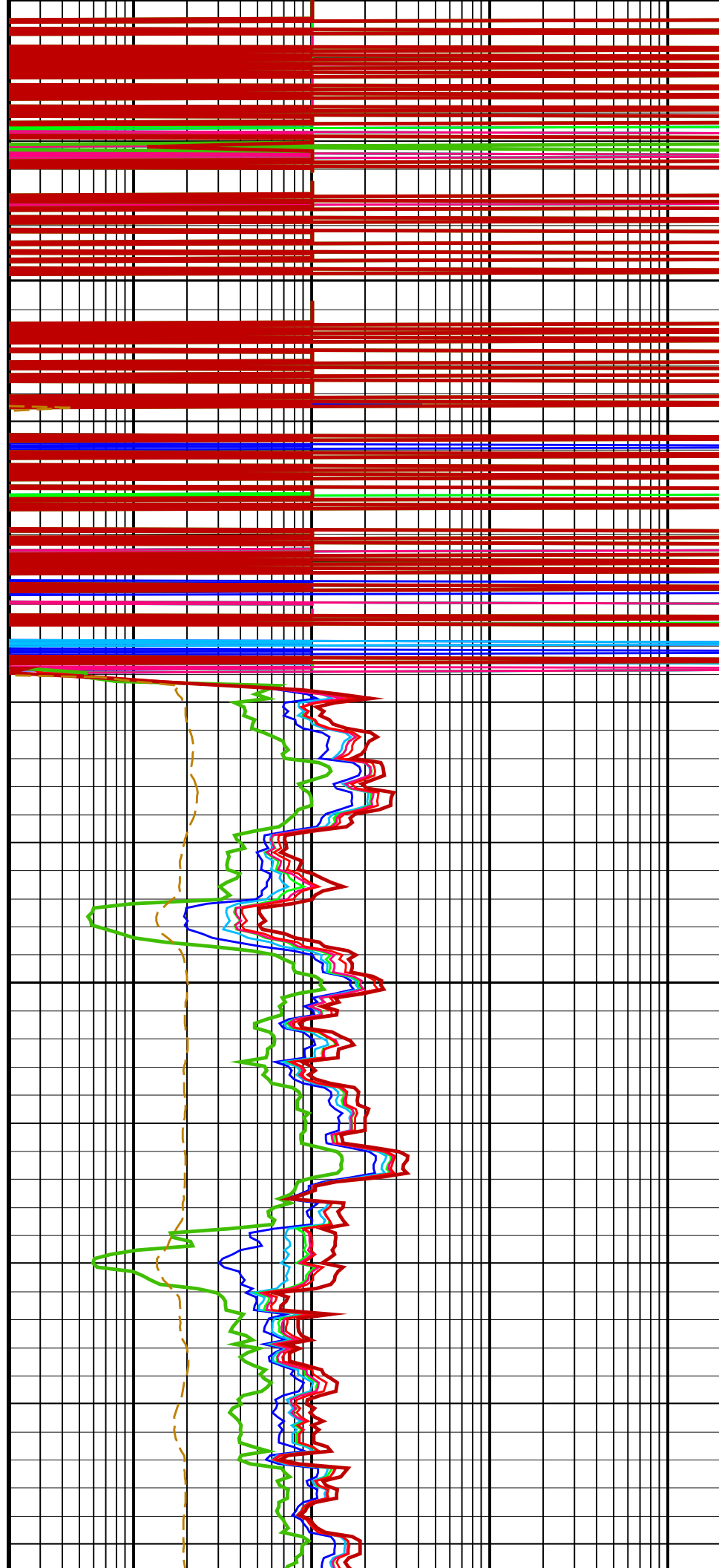
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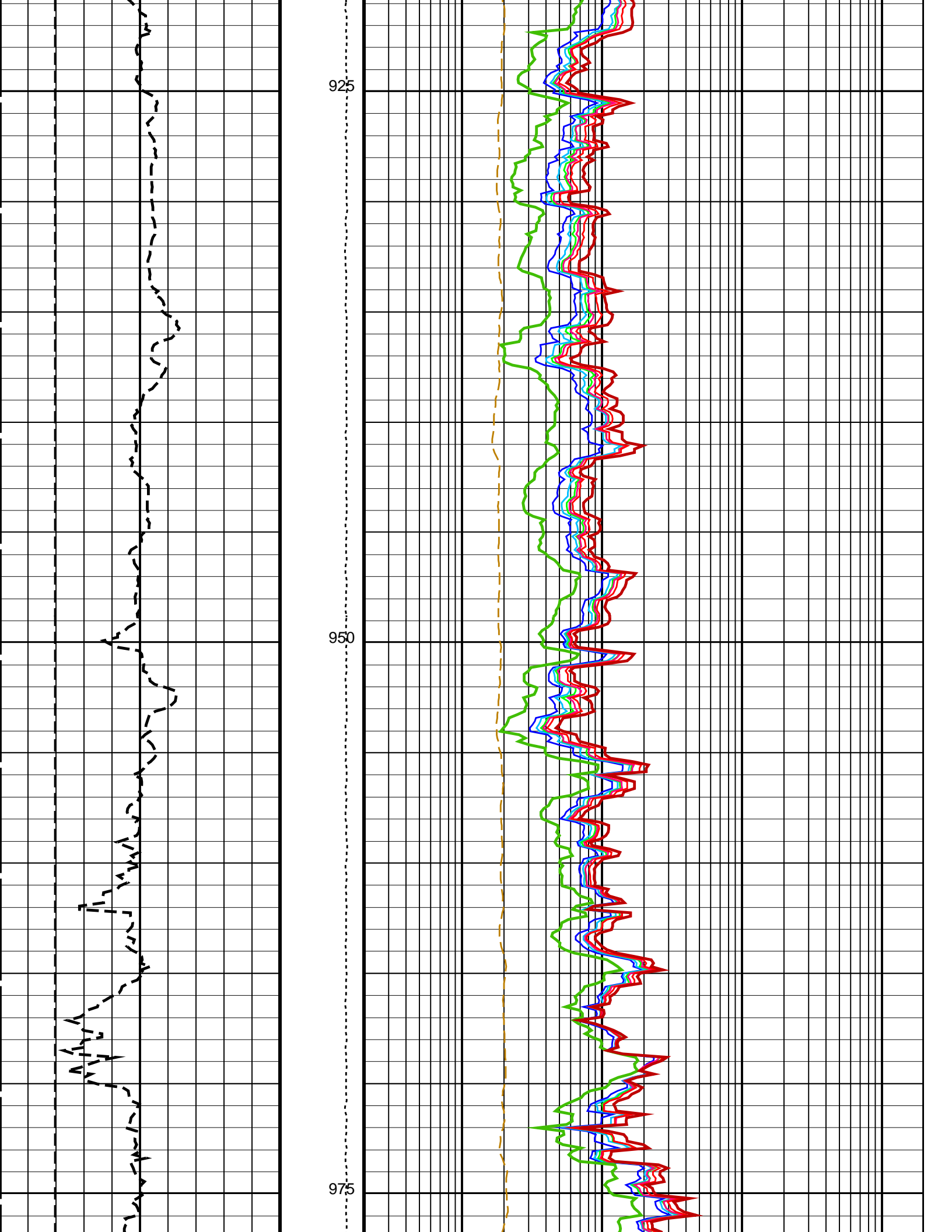


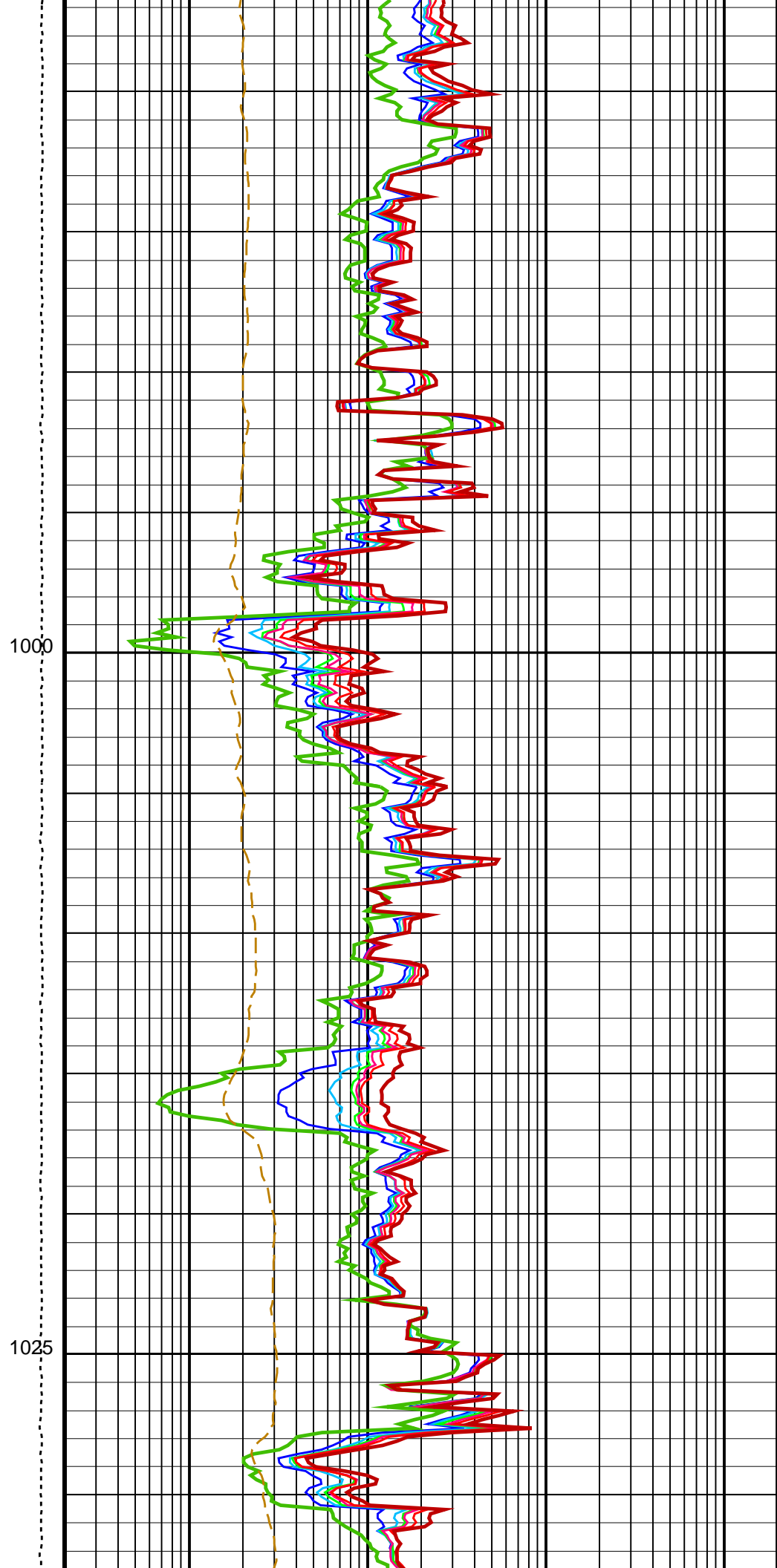
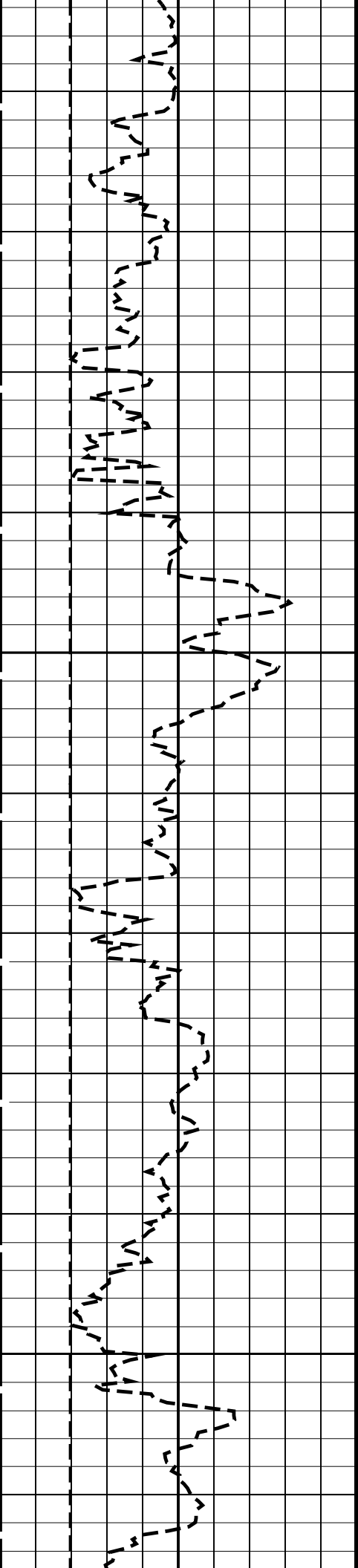


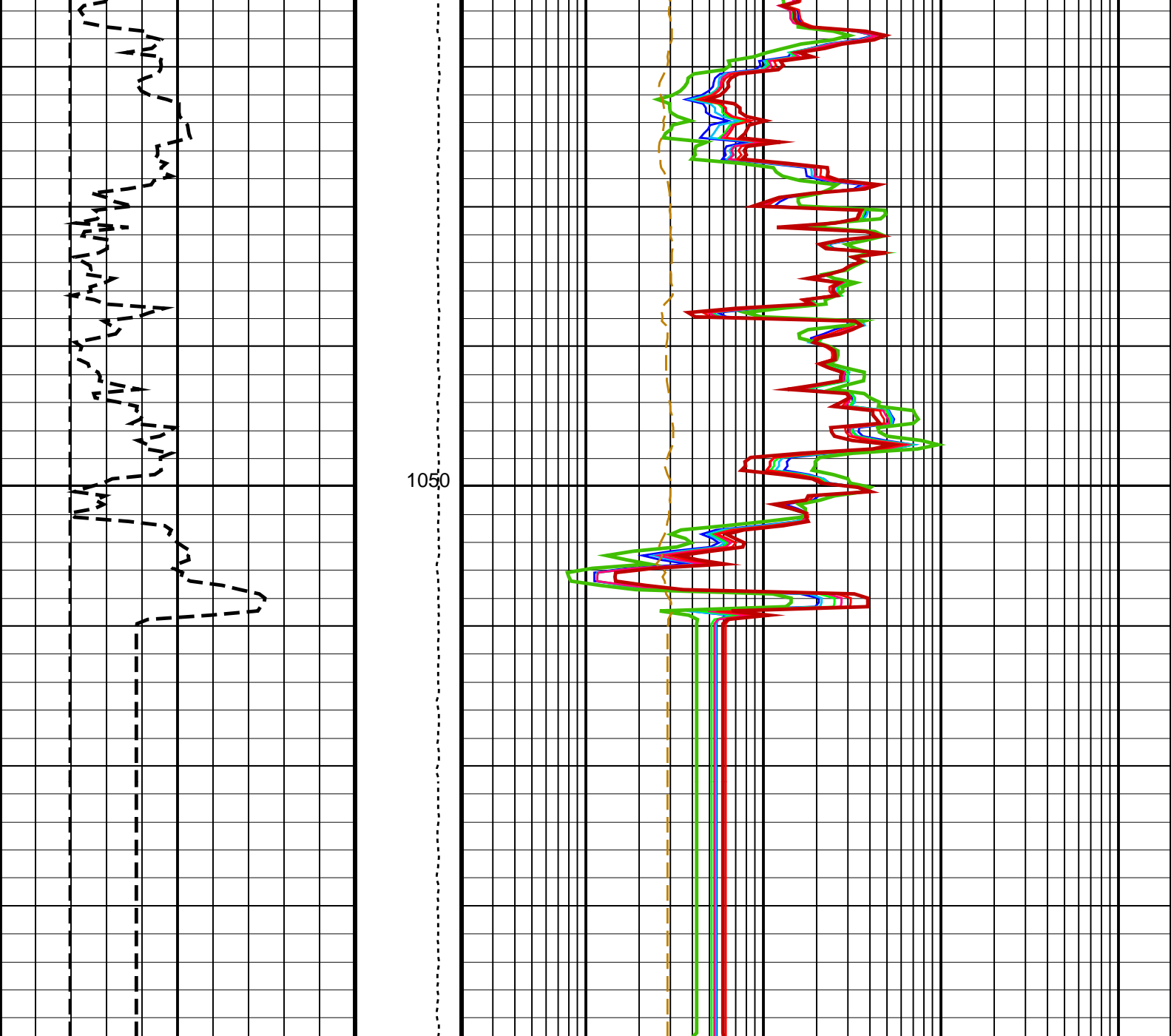
875

900





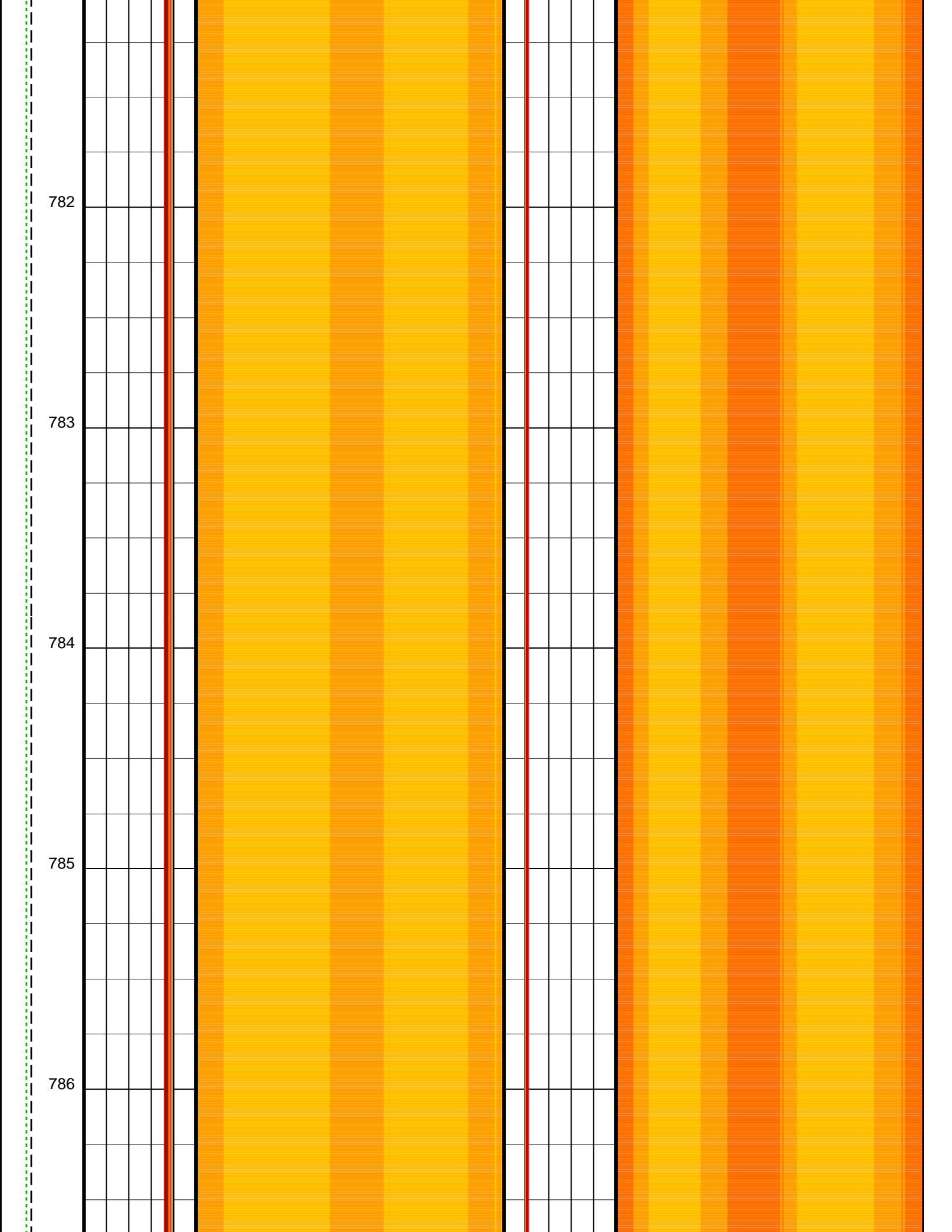


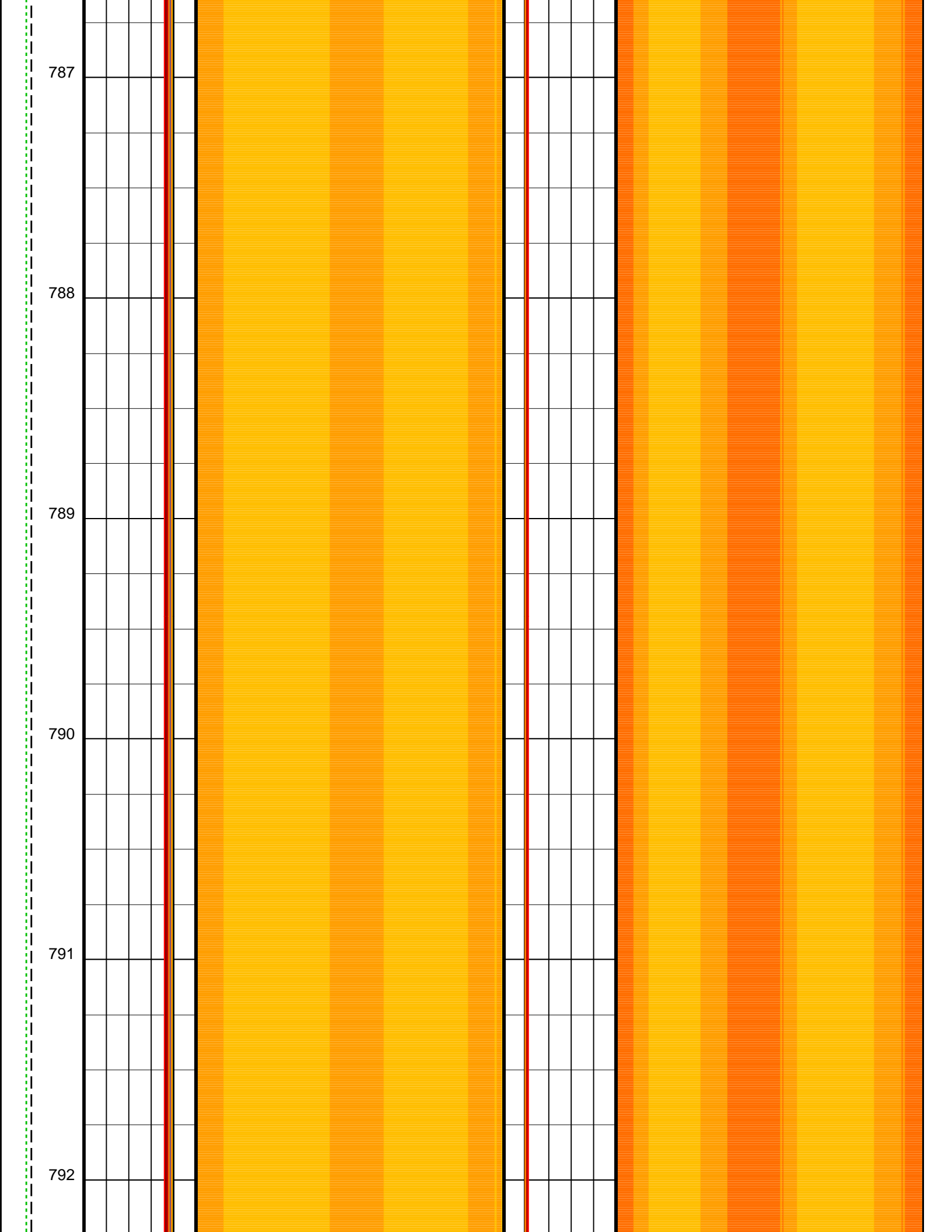


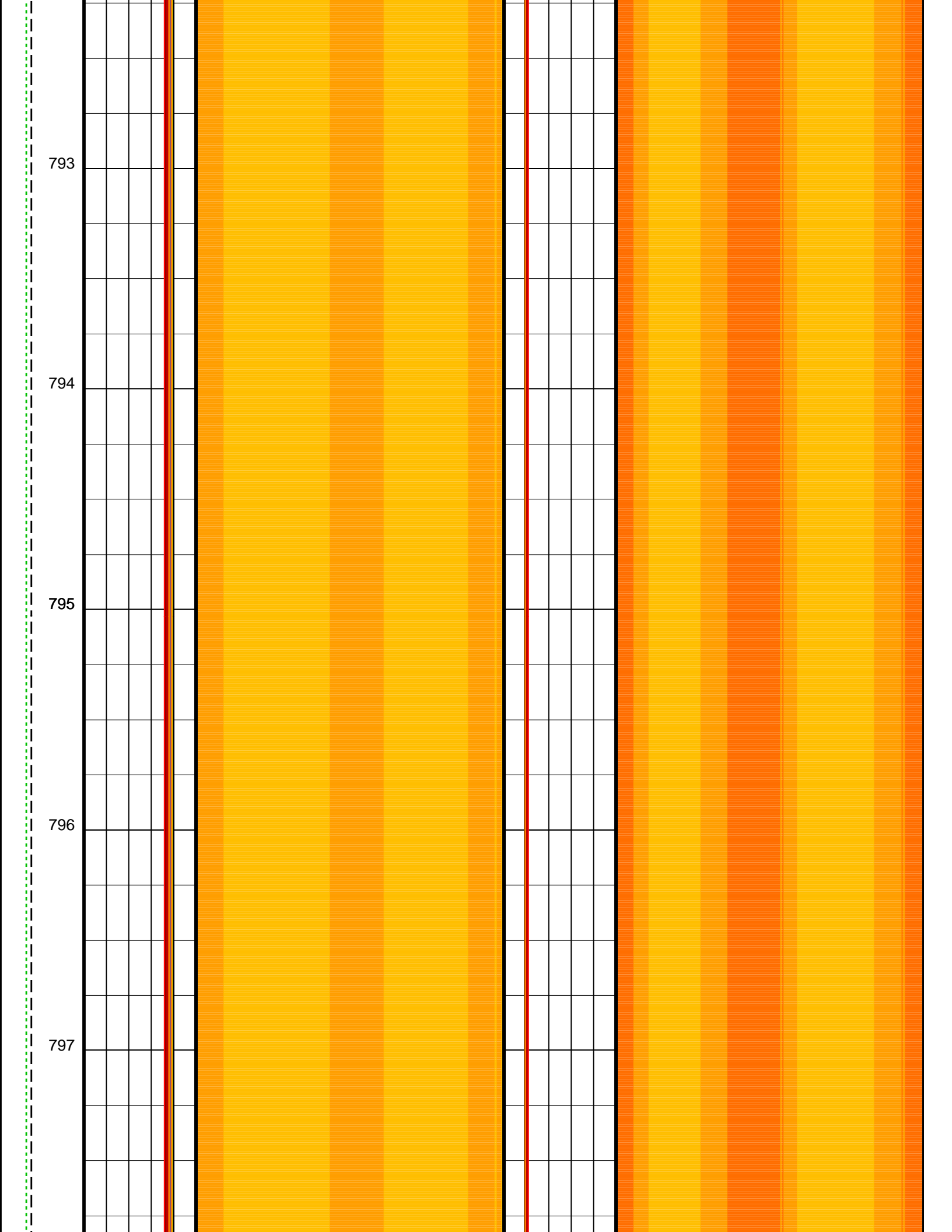
Bit Size (BS) (IN)	Tension (TENS) (LBF)	HRLT Resistivity 1 (RLA1) (OHMM)
6	10000	0.2
26	0	2000
Invasion Diameter (DI_HRLT) (IN)		HRLT Resistivity 2 (RLA2) (OHMM)
0		0.2
50		2000
		HRLT Resistivity 3 (RLA3) (OHMM)
		0.2
		2000
		HRLT Resistivity 4 (RLA4) (OHMM)
		0.2
		2000
		HRLT Resistivity 5 (RLA5)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

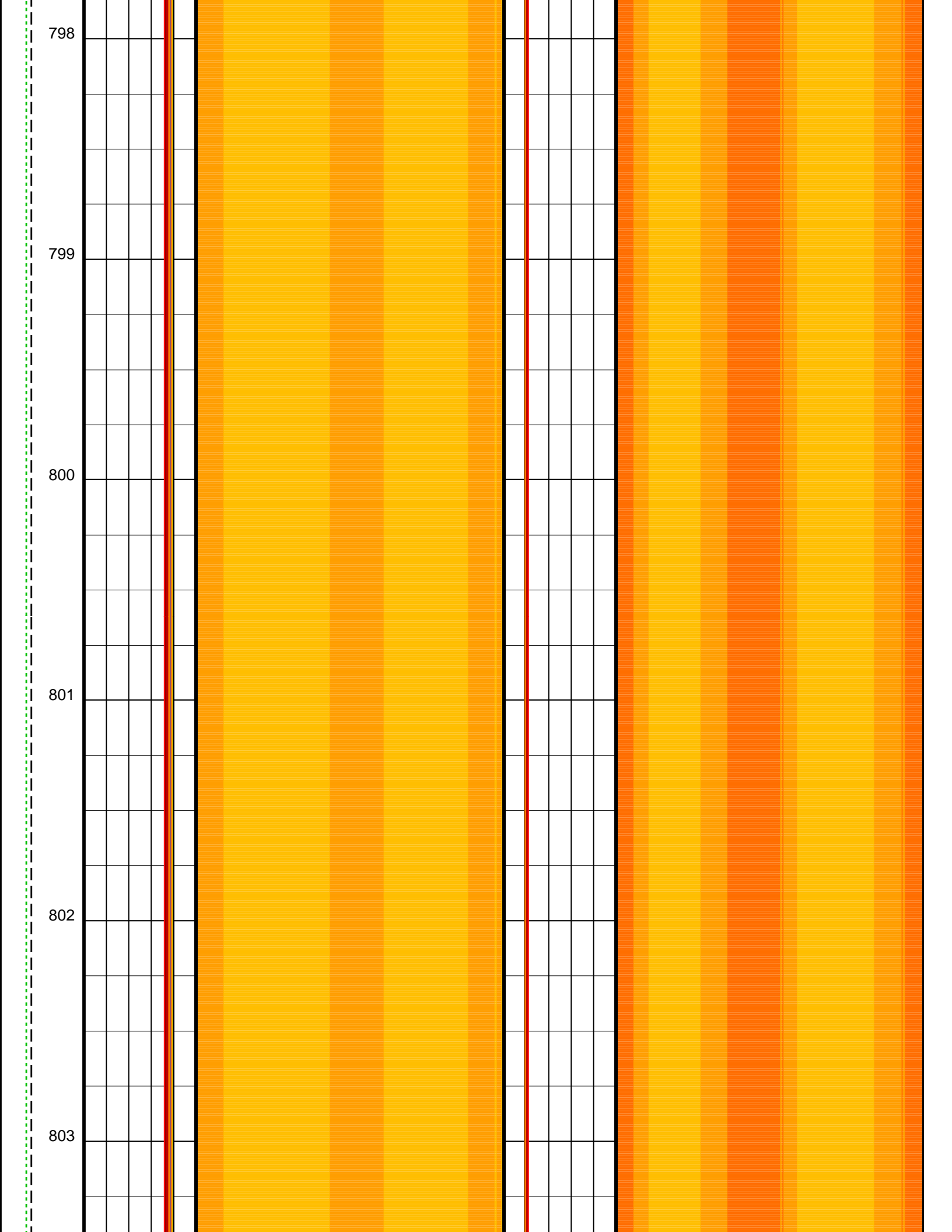
		0.2	(OHMM)		2000
PIP SUMMARY					
Time Mark Every 60 S					
Parameters					
DLIS Name		Description		Value	
HRLT-B: High Resolution Laterolog Array – B					
BHT		Bottom Hole Temperature (used in calculations)	212	DEGF	
GCSE		Generalized Caliper Selection	BS		
GGRD		Geothermal Gradient	0.01	DF/F	
GRSE		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	1.5	IN	
PROCRM		Processing Mud Resistivity Select	HRLT_Compute		
PROCSP0		Sonde Position	Centered		
SHT		Surface Hole Temperature	68	DEGF	
APS-C: Accelerator-Porosity Tool					
BHT		Bottom Hole Temperature (used in calculations)	212	DEGF	
GCSE		Generalized Caliper Selection	BS		
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)	212	DEGF	
GCSE		Generalized Caliper Selection	BS		
GGRD		Geothermal Gradient	0.01	DF/F	
GRSE		Generalized Mud Resistivity Selection	CHART_GEN 9		
GTSE		Generalized Temperature Selection	LINEAR_ESTIMATE		
SHT		Surface Hole Temperature	68	DEGF	
System and Miscellaneous					
BS		Bit Size	9.875	IN	
DO		Depth Offset for Playback	0.0	M	
MST		Mud Sample Temperature	23.00	DEGC	
PP		Playback Processing	NORMAL		
TD		Total Depth	-50000	FT	
Format: HRLT		Vertical Scale: 1:200		Graphics File Created: 30-May-2023 14:38	
OP System Version: 19C0-187					
UBI-E	19C0-187	GPIT-A/B	19C0-187		
DTA-A	19C0-187	HRLT-B	19C0-187		
APS-C	19C0-187	EDTC-B	19C0-187		
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DEFAULT	Flip_UBI_HRLA_APS_087LUP	PRODUCER	27-May-2023 01:05	1069.7 M	777.7 M
Output DLIS Files					
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Company: International Ocean Discovery Program					
				Well: Expedition 399, Site U1601C	
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Output DLIS Files					
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OP System Version: 19C0-187					
UBI-E	19C0-187	GPIT-A/B	19C0-187		
DTA-A	19C0-187	HRLT-B	19C0-187		

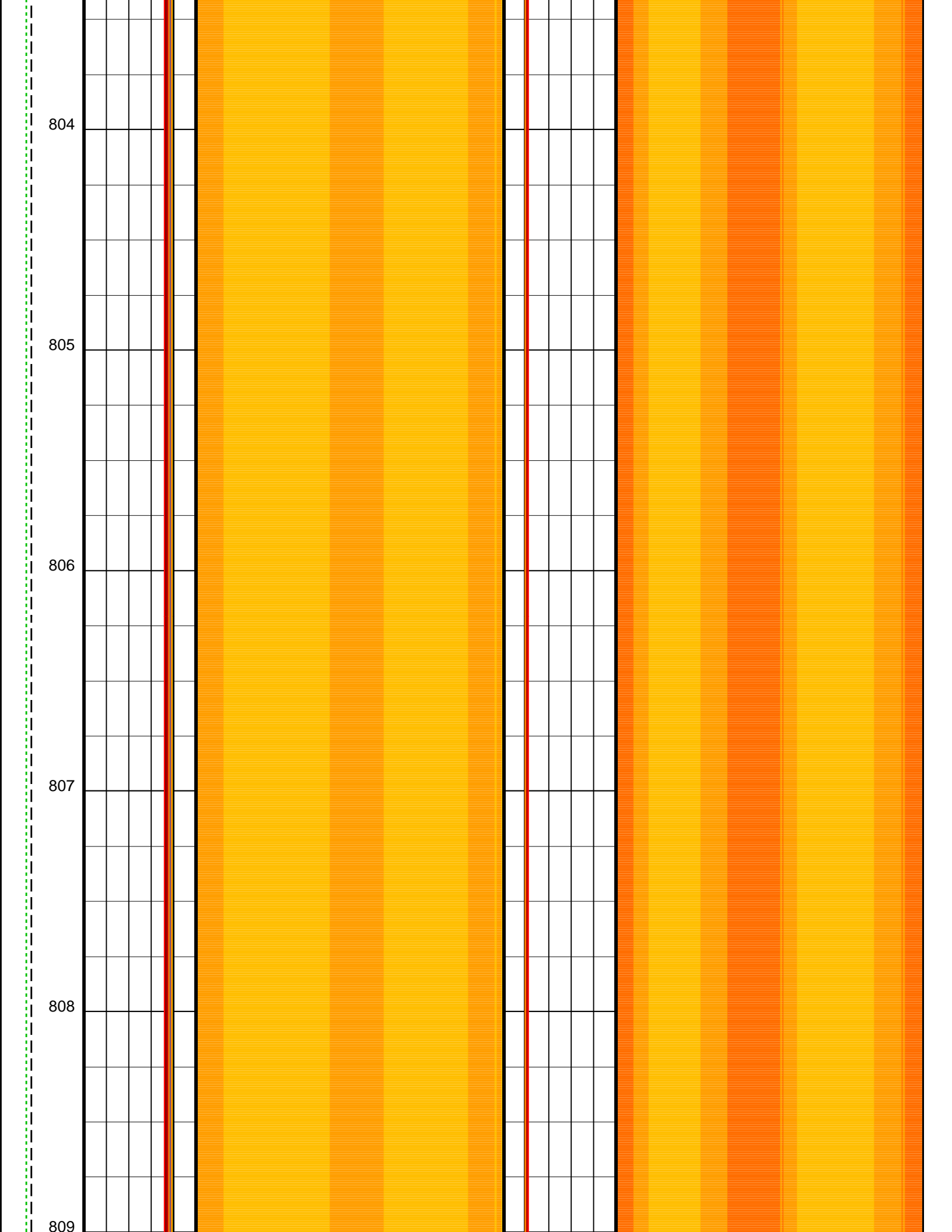
		HIGH Amplitude (FA75)		Radius max (UTMX)	
		(DB) 50		4 (IN) 8	
Gamma Ray (GR_EDTC) (GAPI)		MEDIAN of Amplitude (FAED)		Radius min (UTMN)	
0 25		(DB) 50		4 (IN) 8	
Fluid velocity (CFVL) (US/F)		Maximum of Amplitude (UAMX)		Radius HIGH (FT75)	
150 250		(DB) 50		4 (IN) 8	
Cable Speed (CS) (M/HR)		Min. of Amplitude (UAMN)		Radius LOW (FT25)	
0 1000		(DB) 50		4 (IN) 8	
Rev. speed (RSAV)		LOW Amplitude (FA25)		MEDIAN Radius (FTED)	
6 (RPS) 8		(DB) 50		4 (IN) 8	
		Corrected Amplitude (AWCN) (DB)		Corrected transit time (TTCN) (US)	
778					
779					
780					
781					

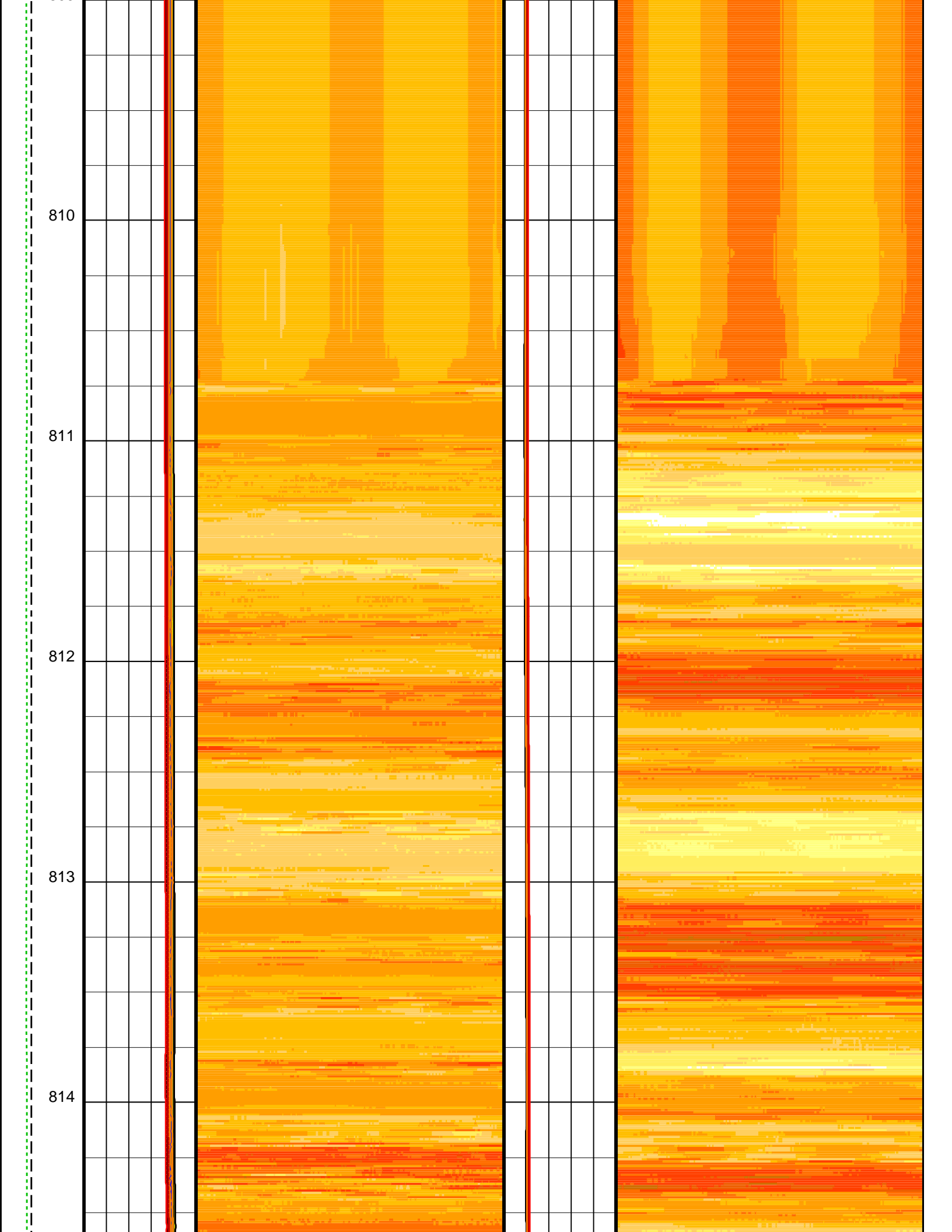


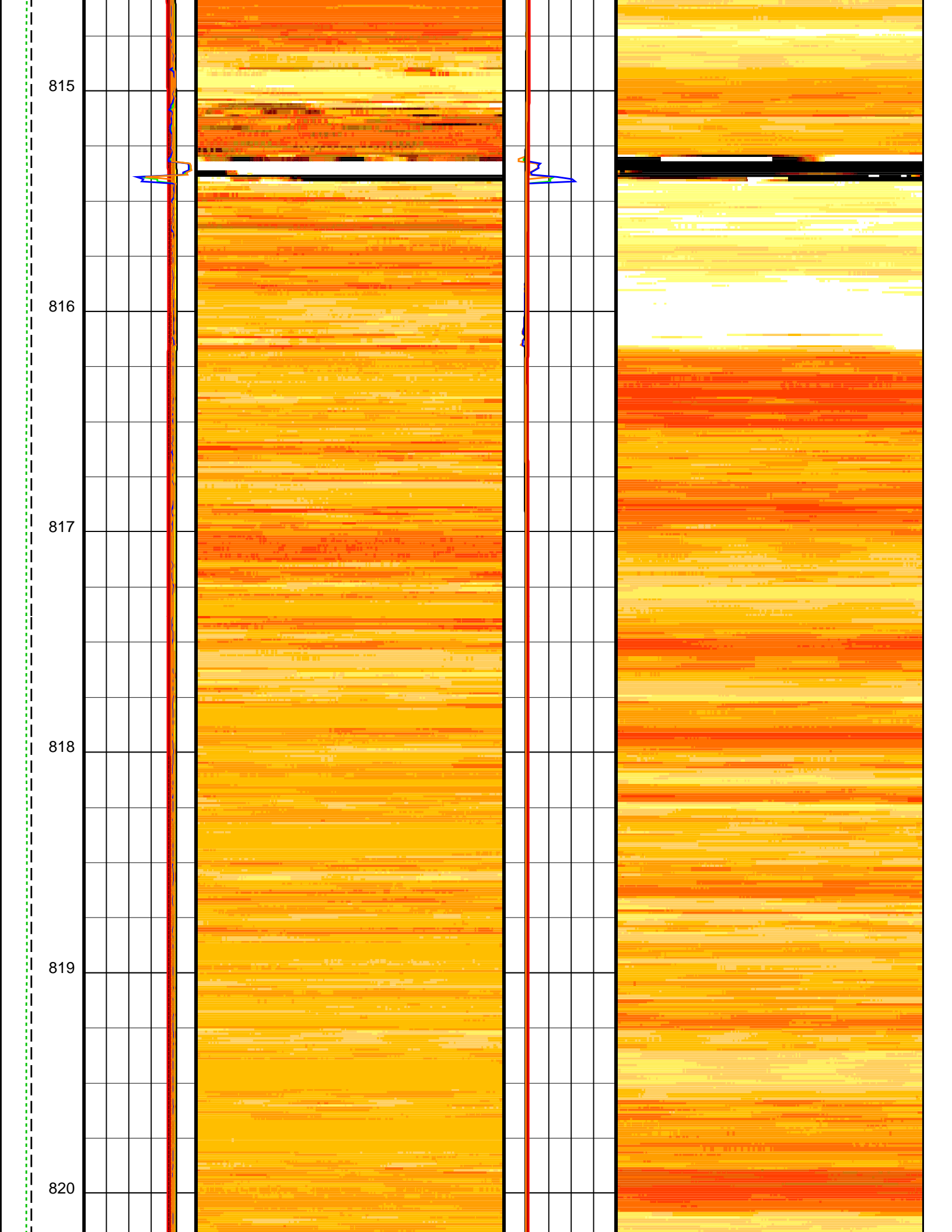


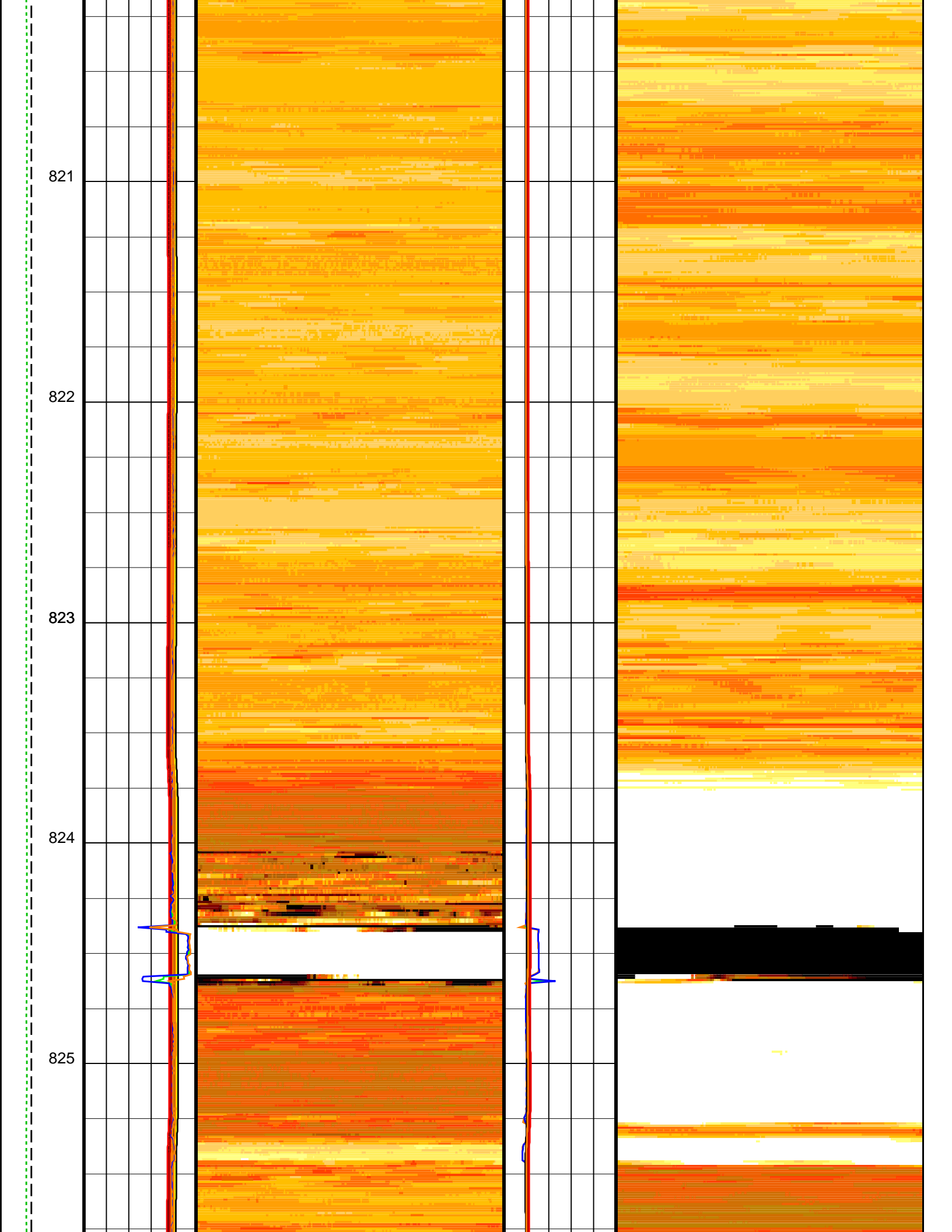


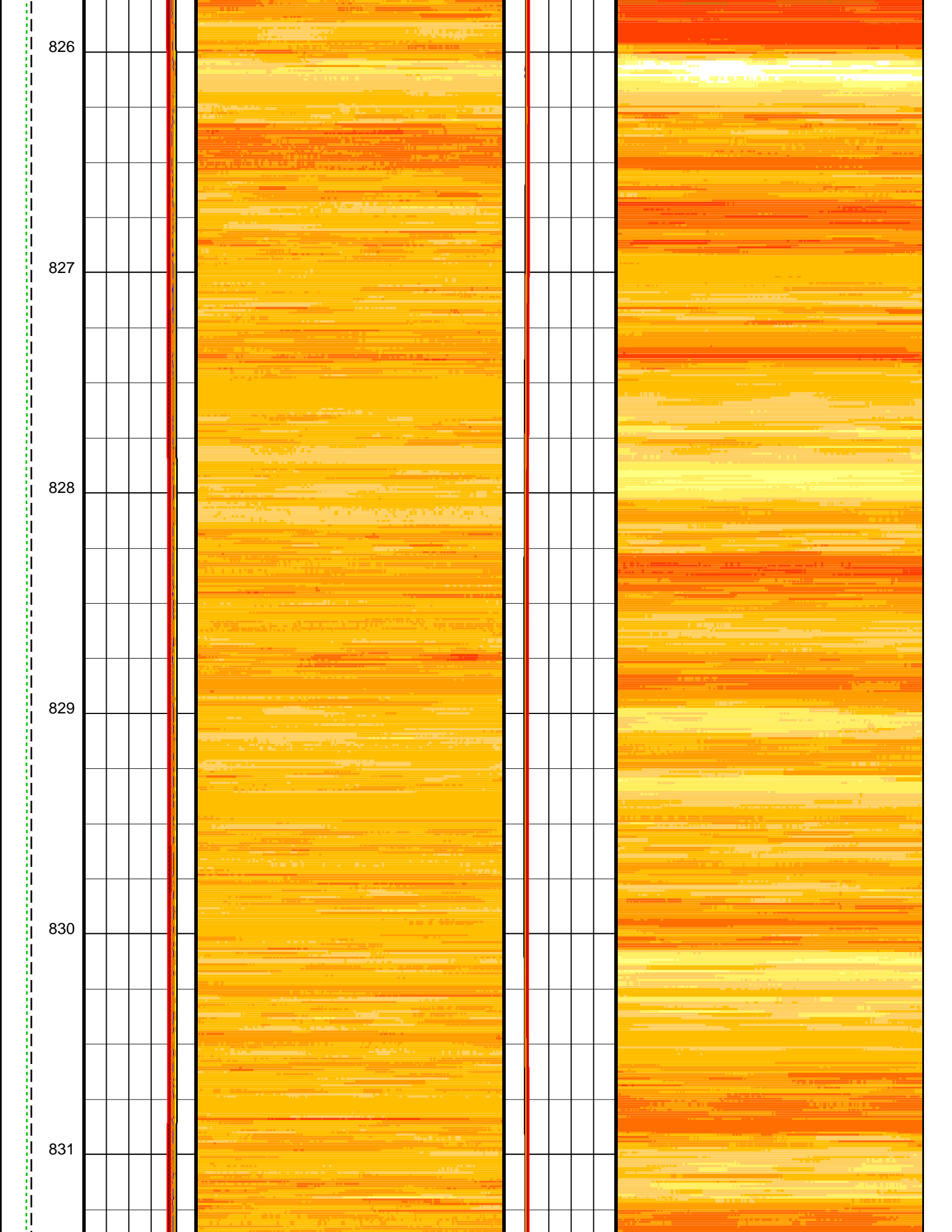


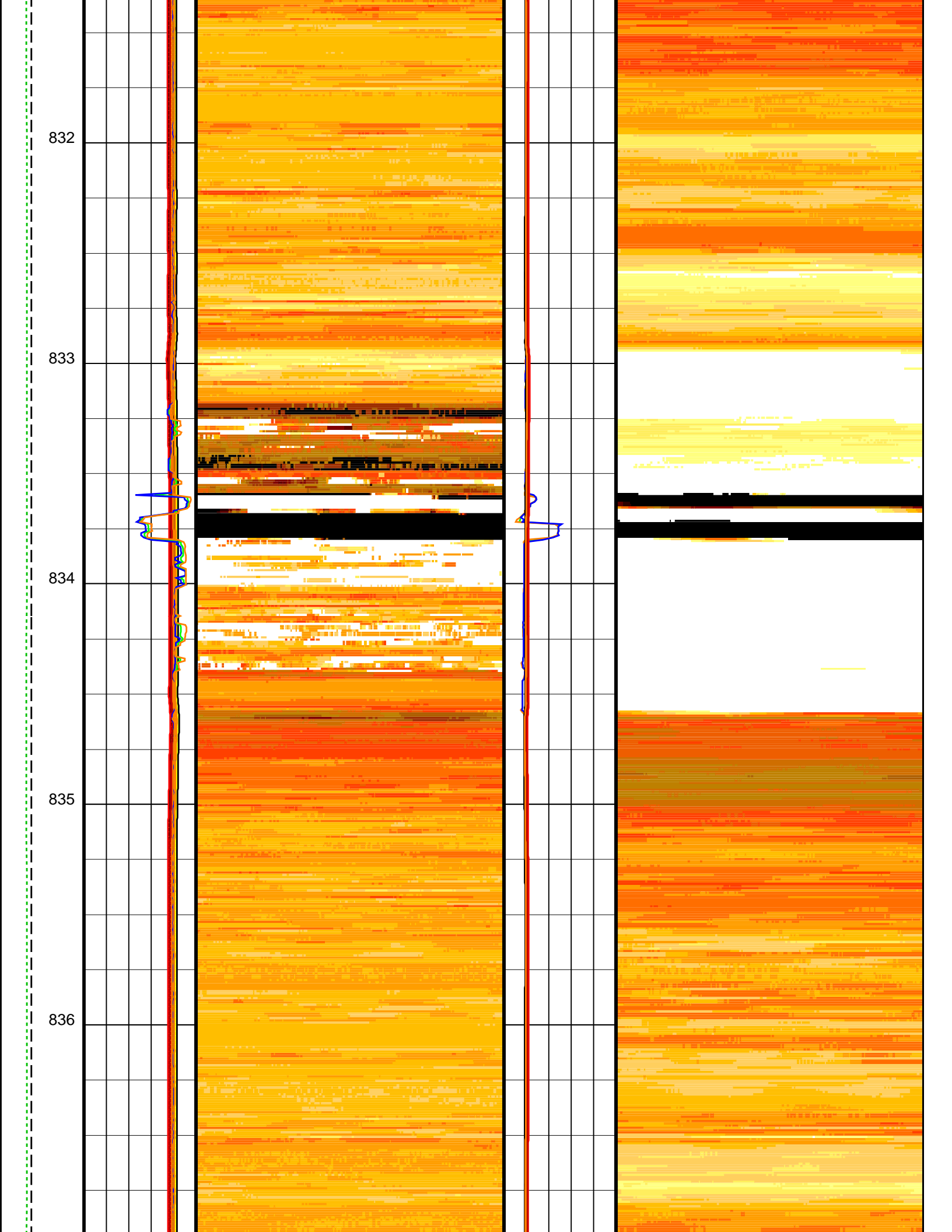


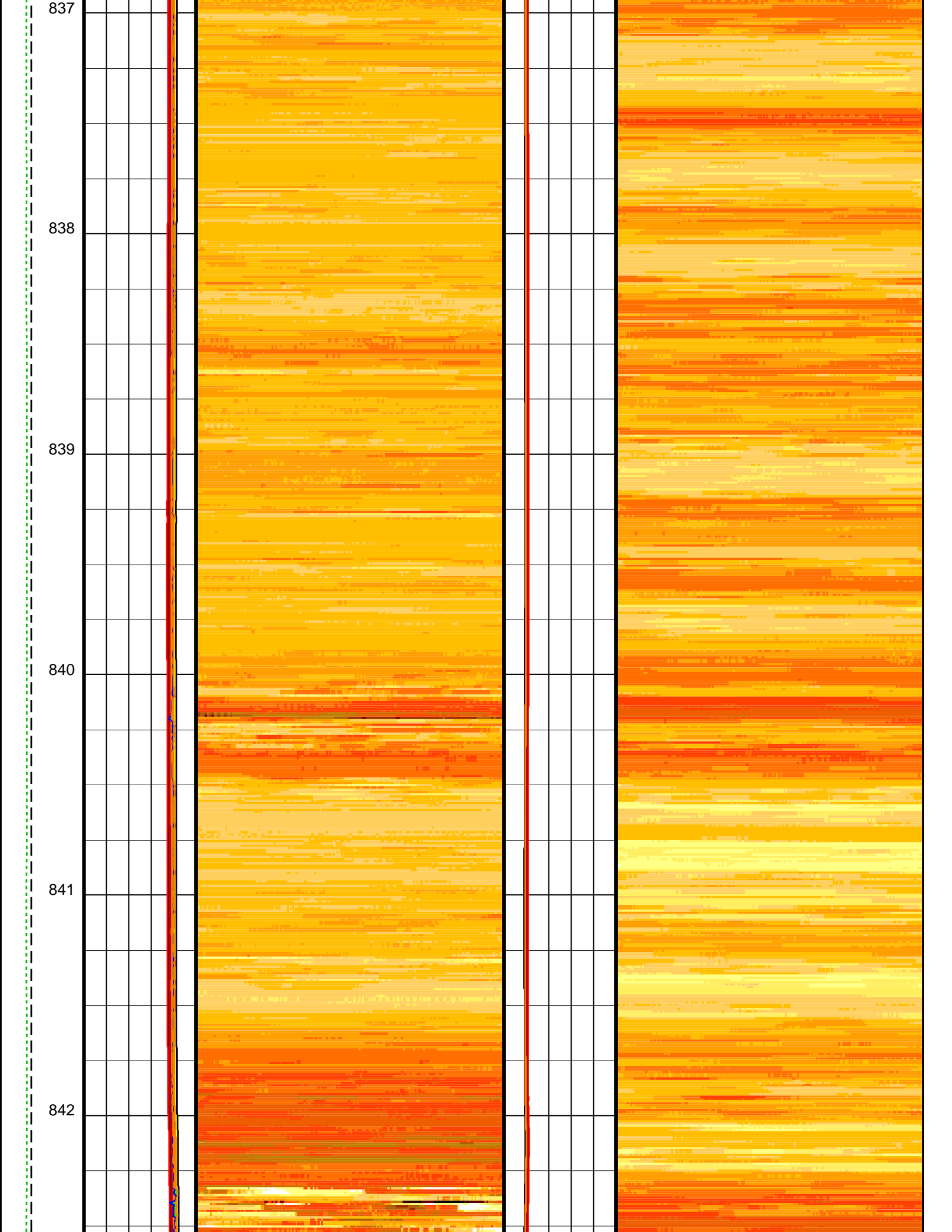


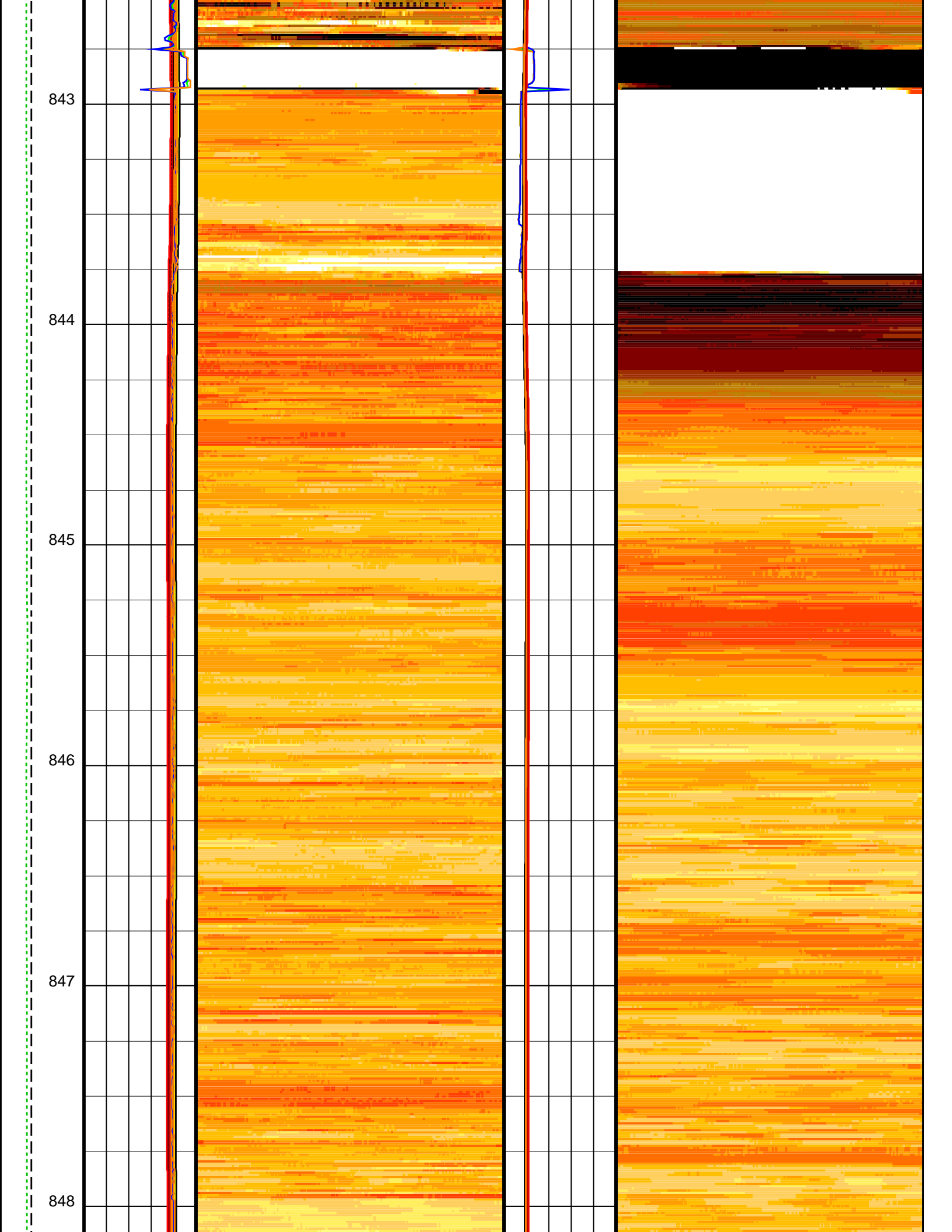


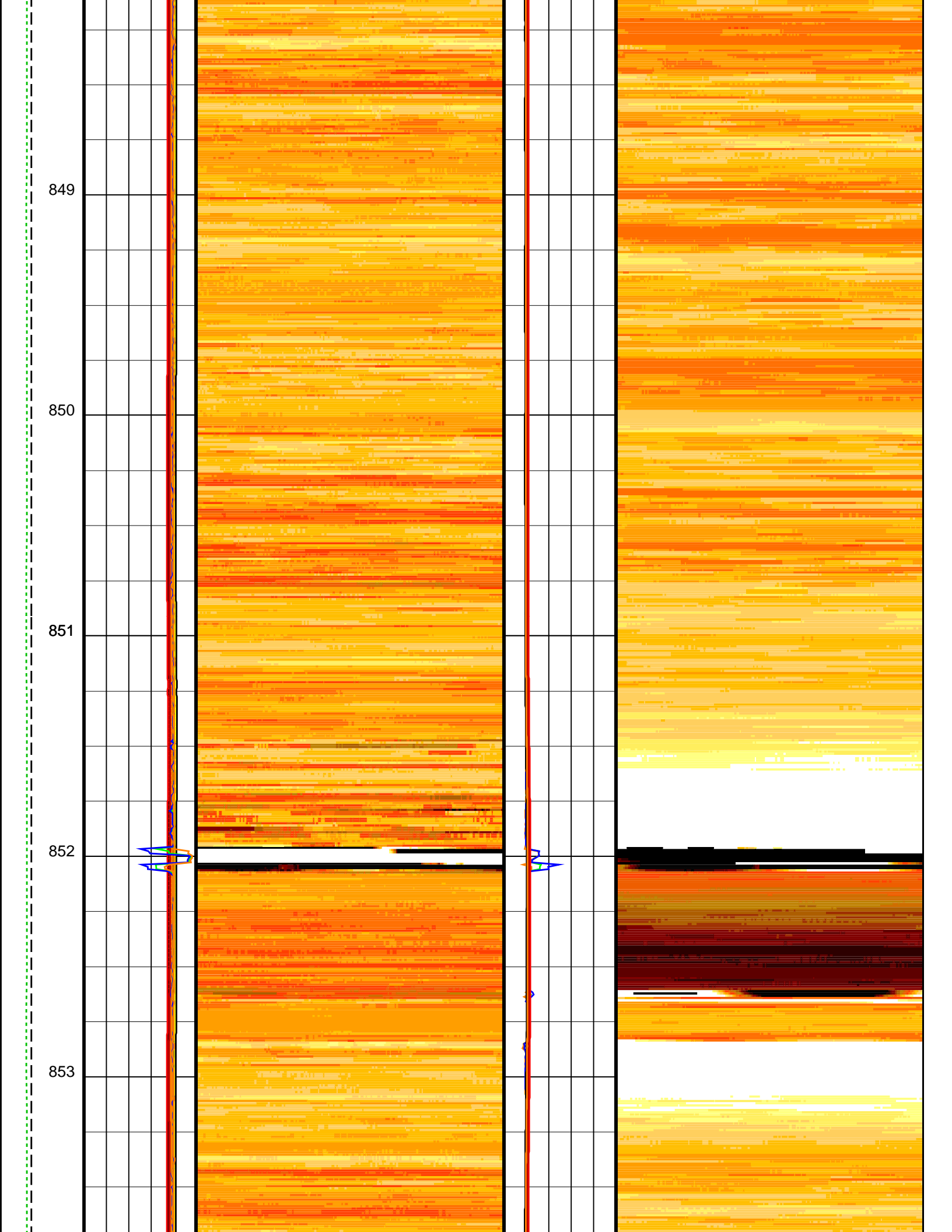


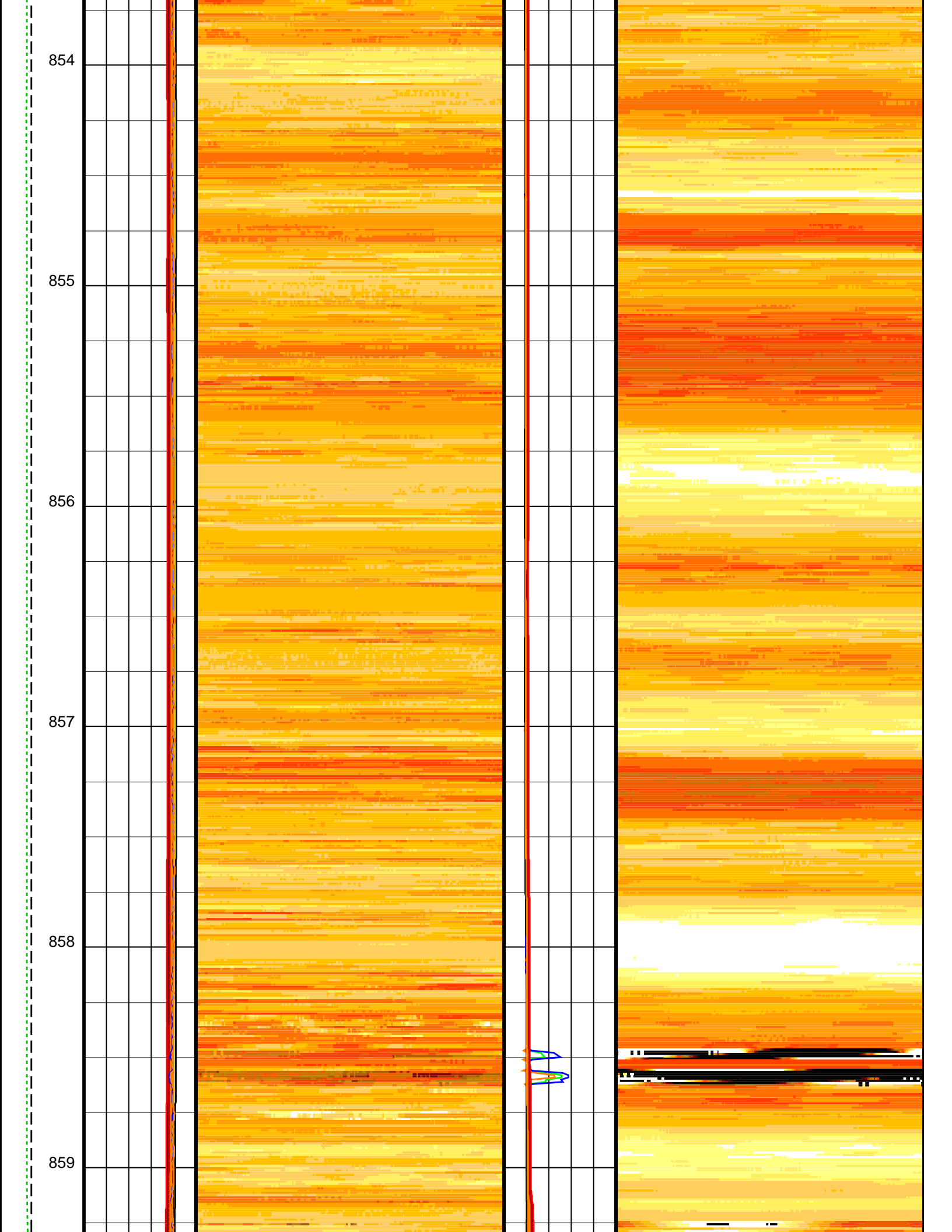


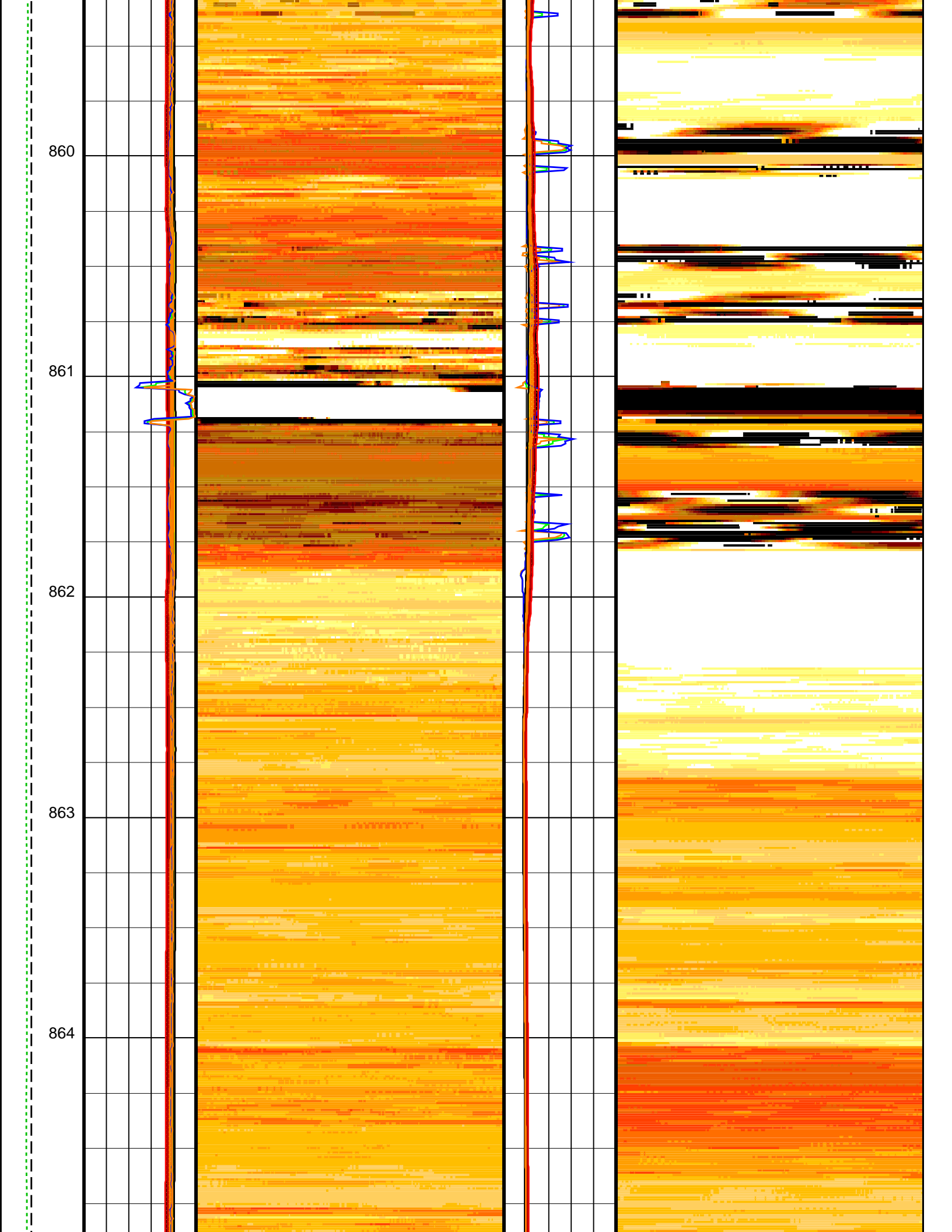


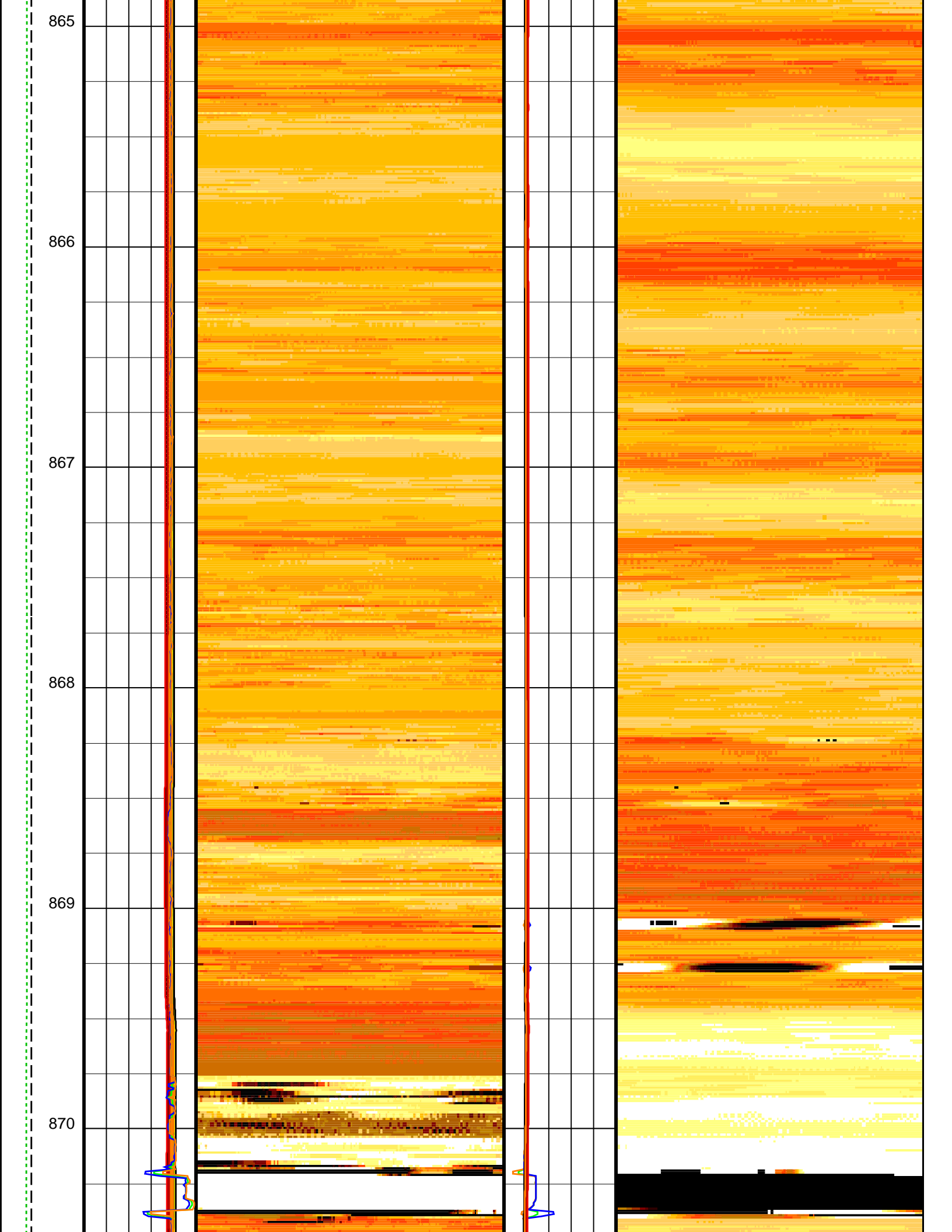


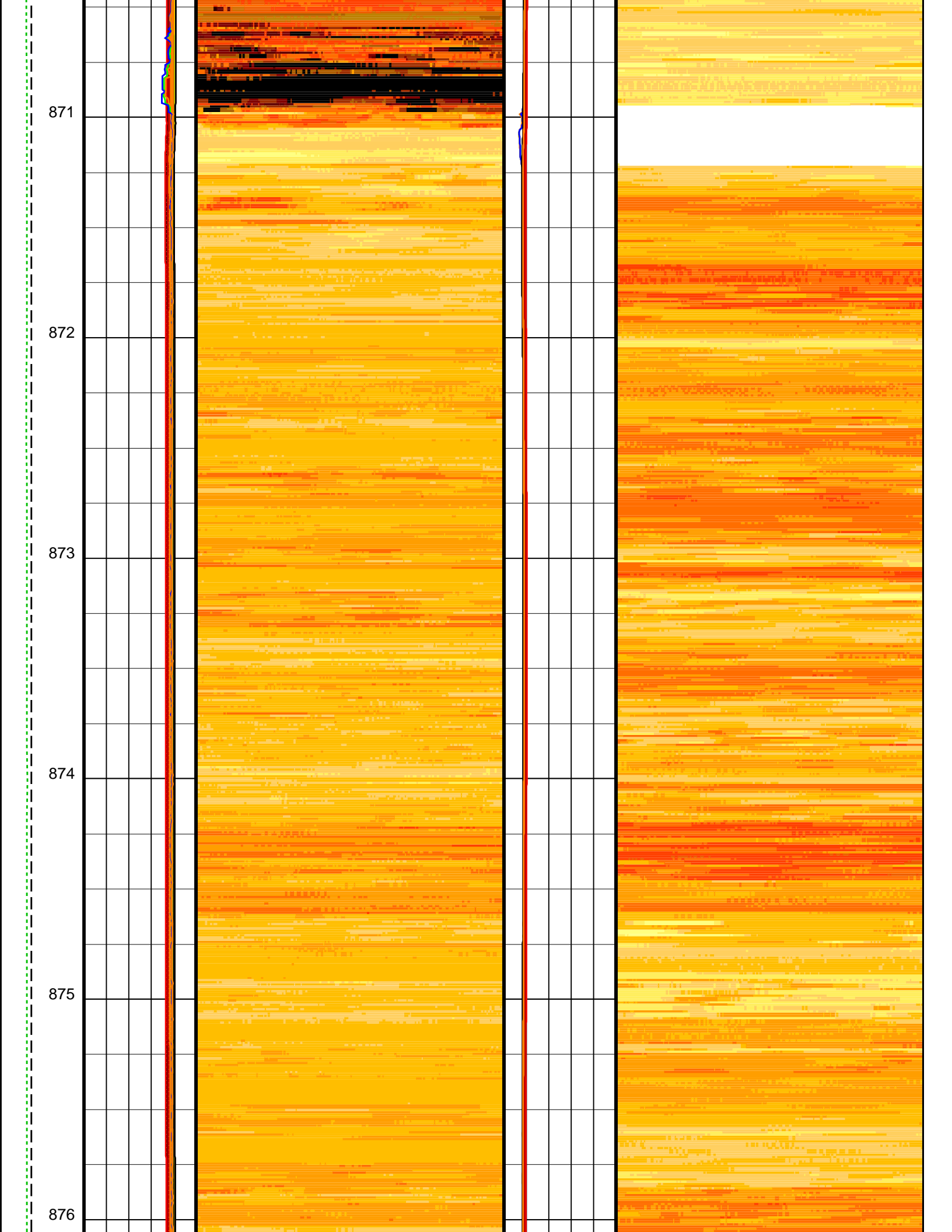


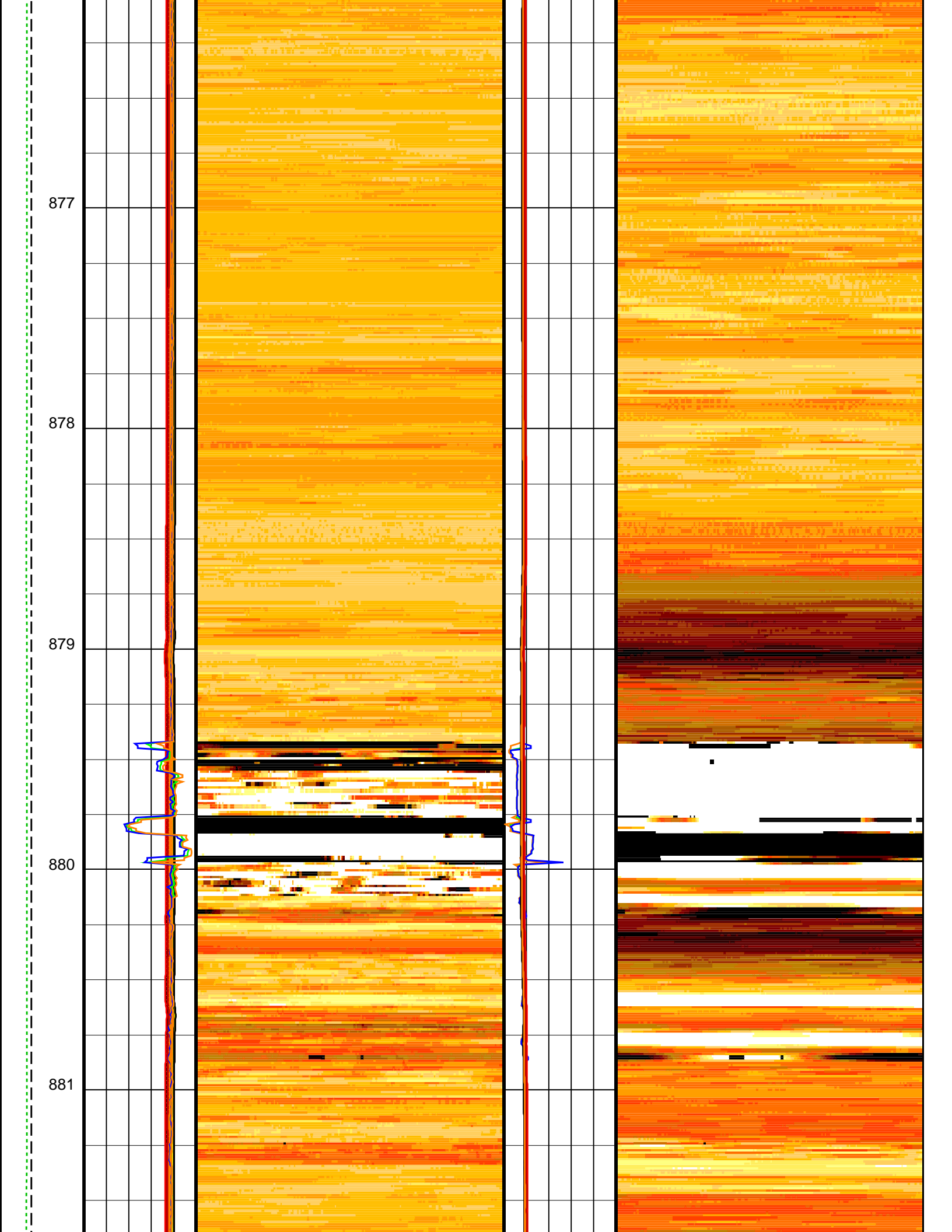


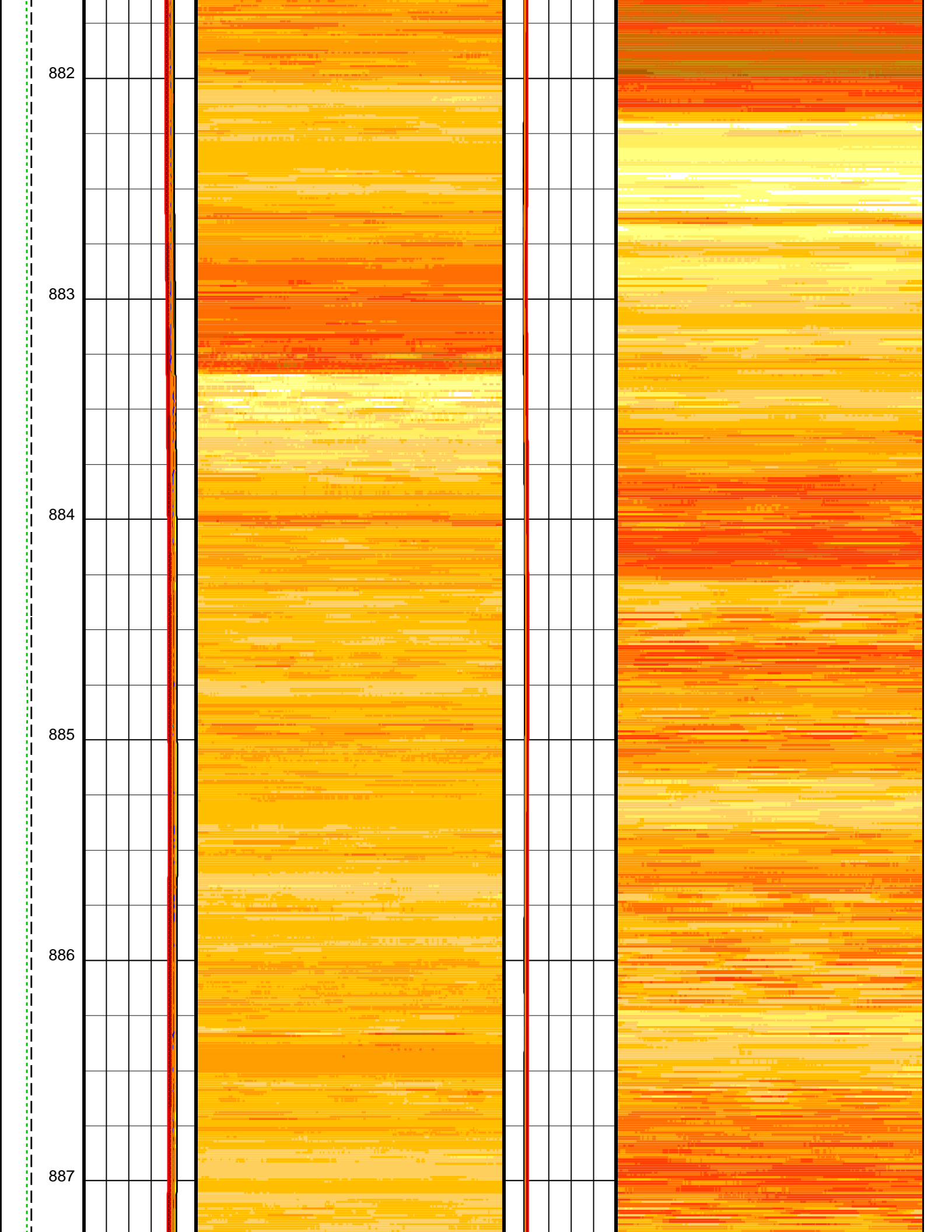


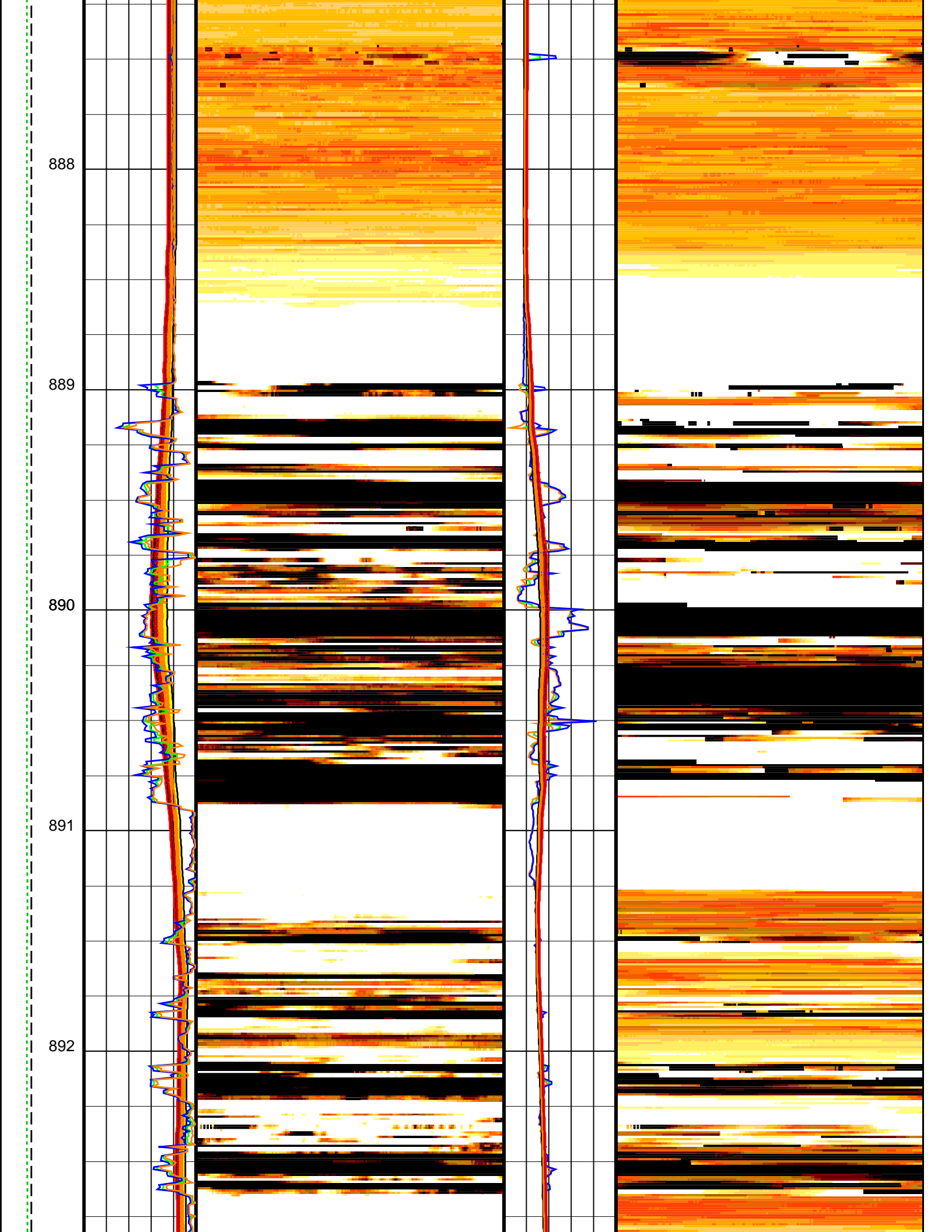












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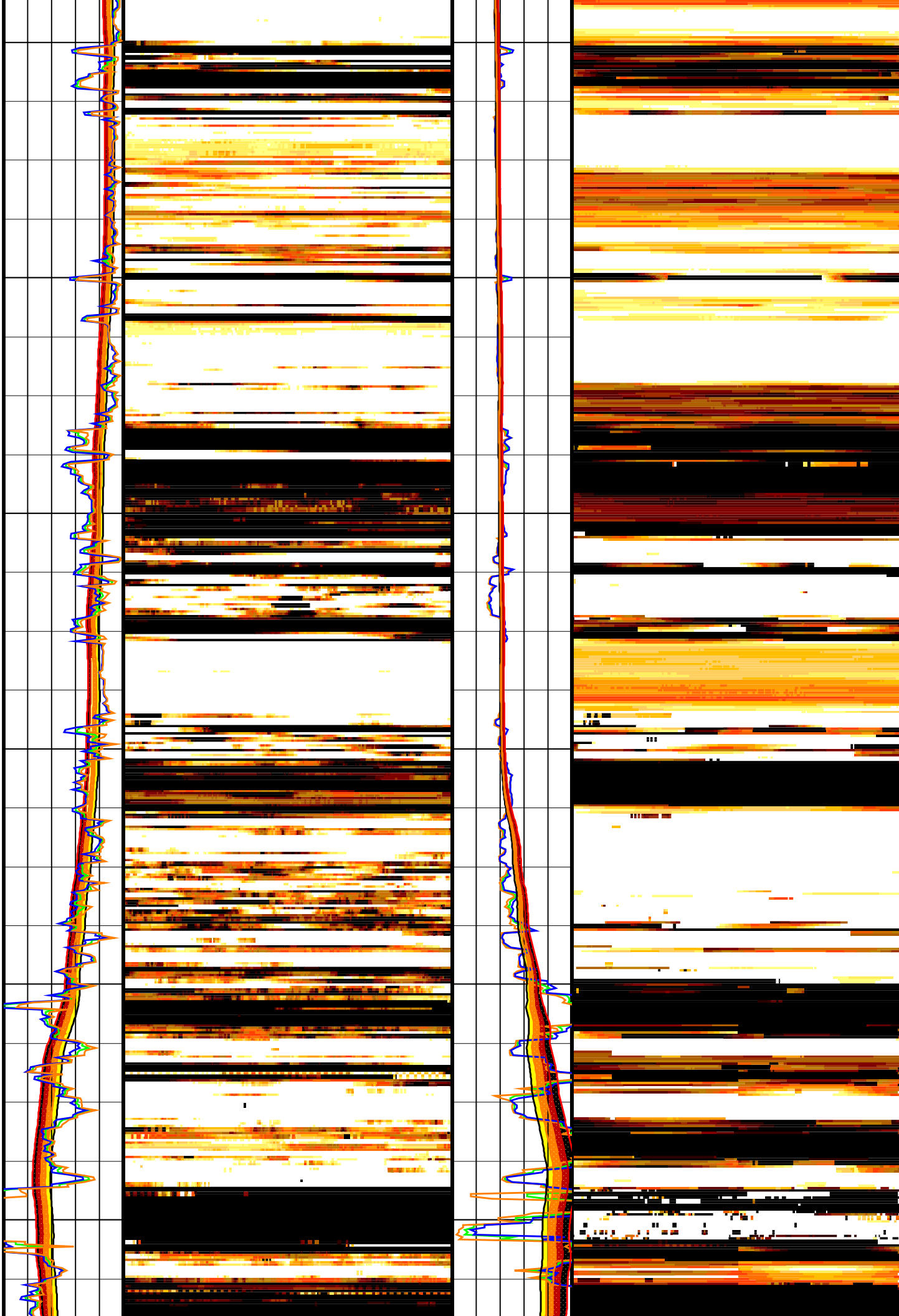
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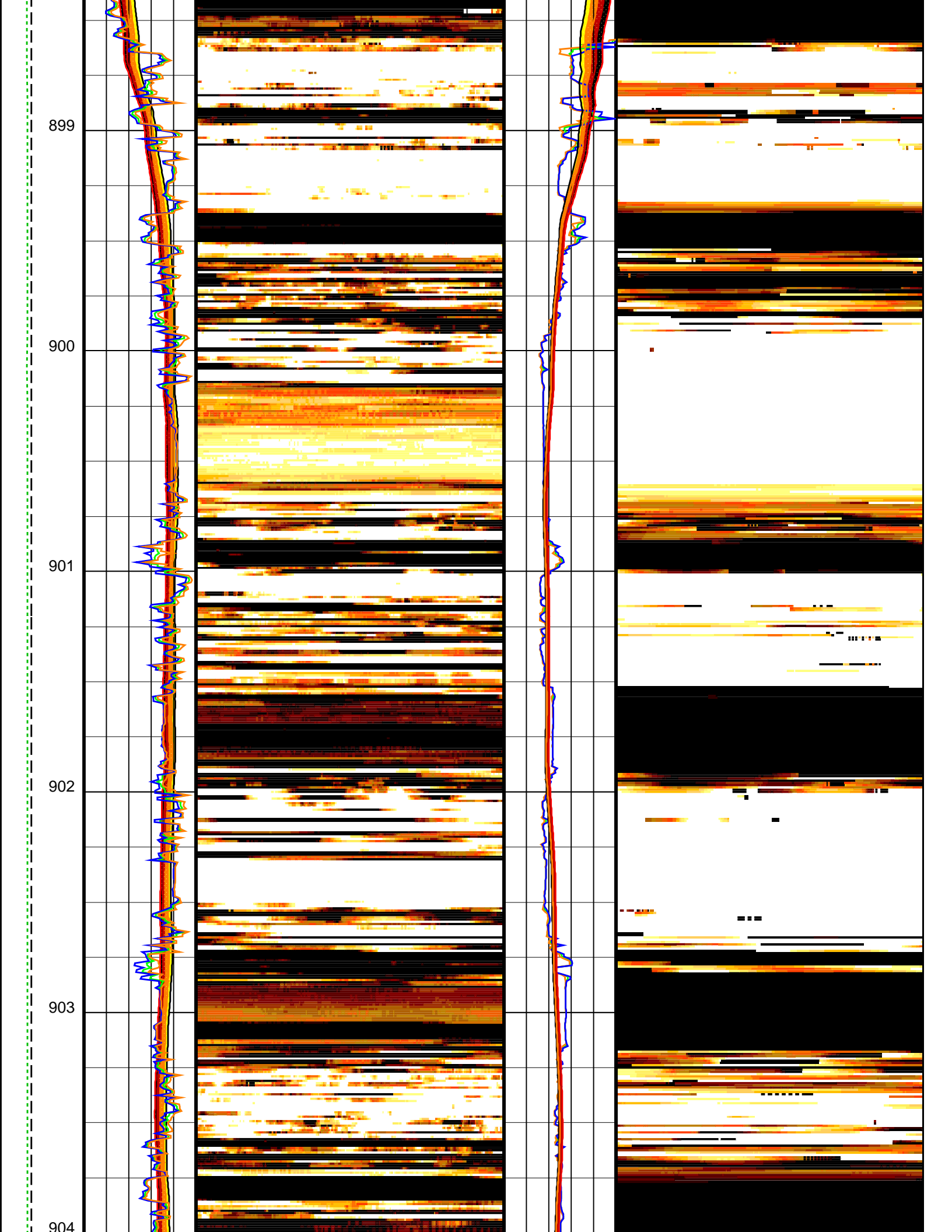
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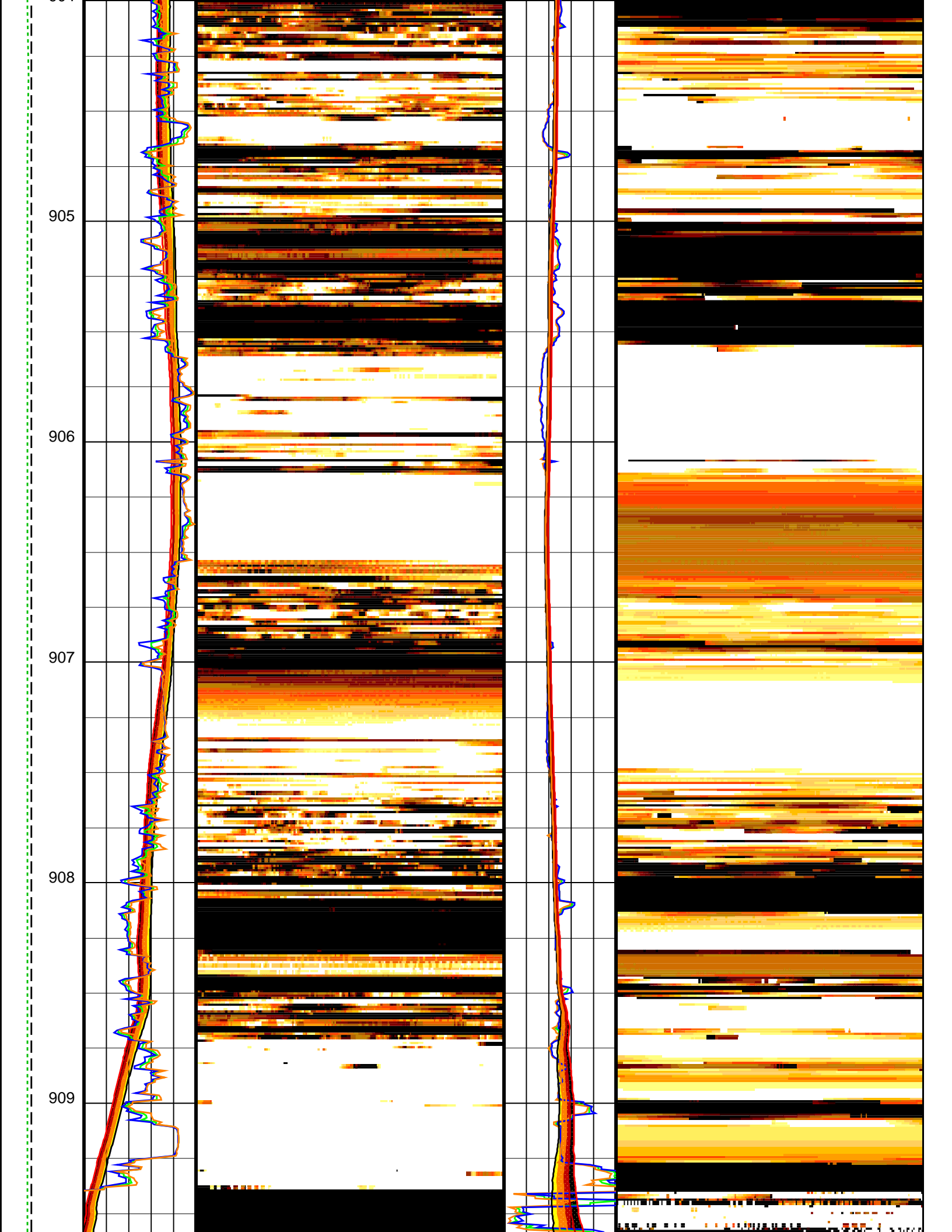
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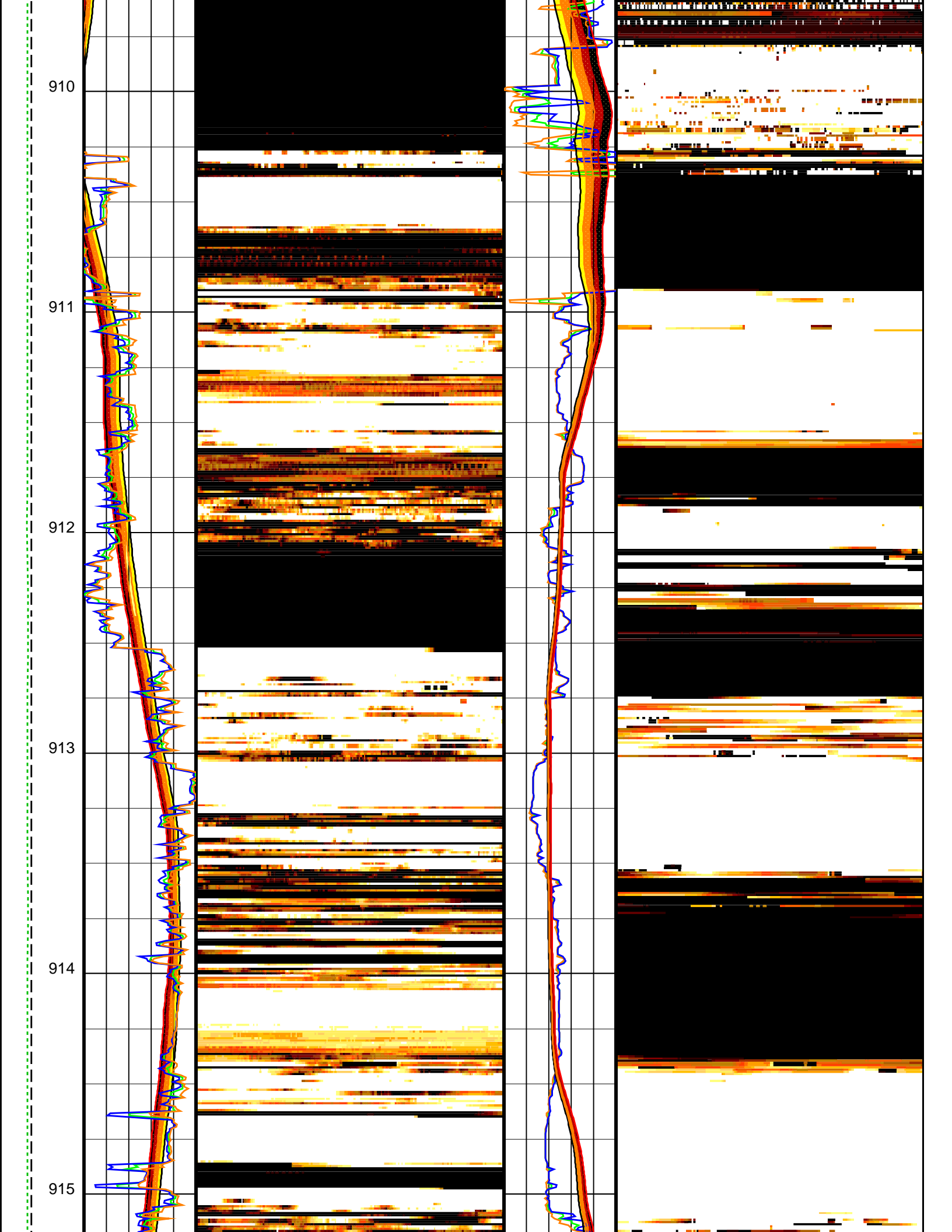
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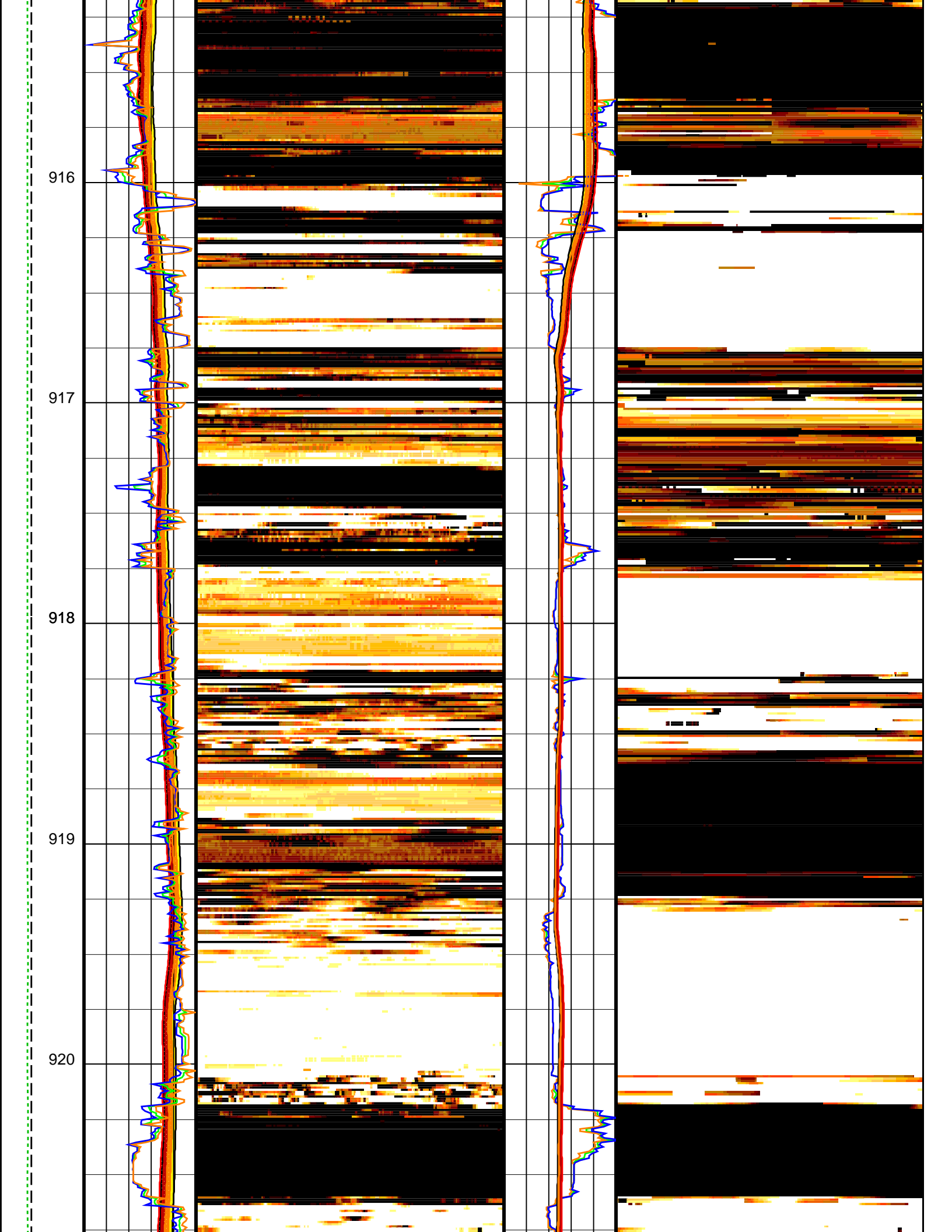
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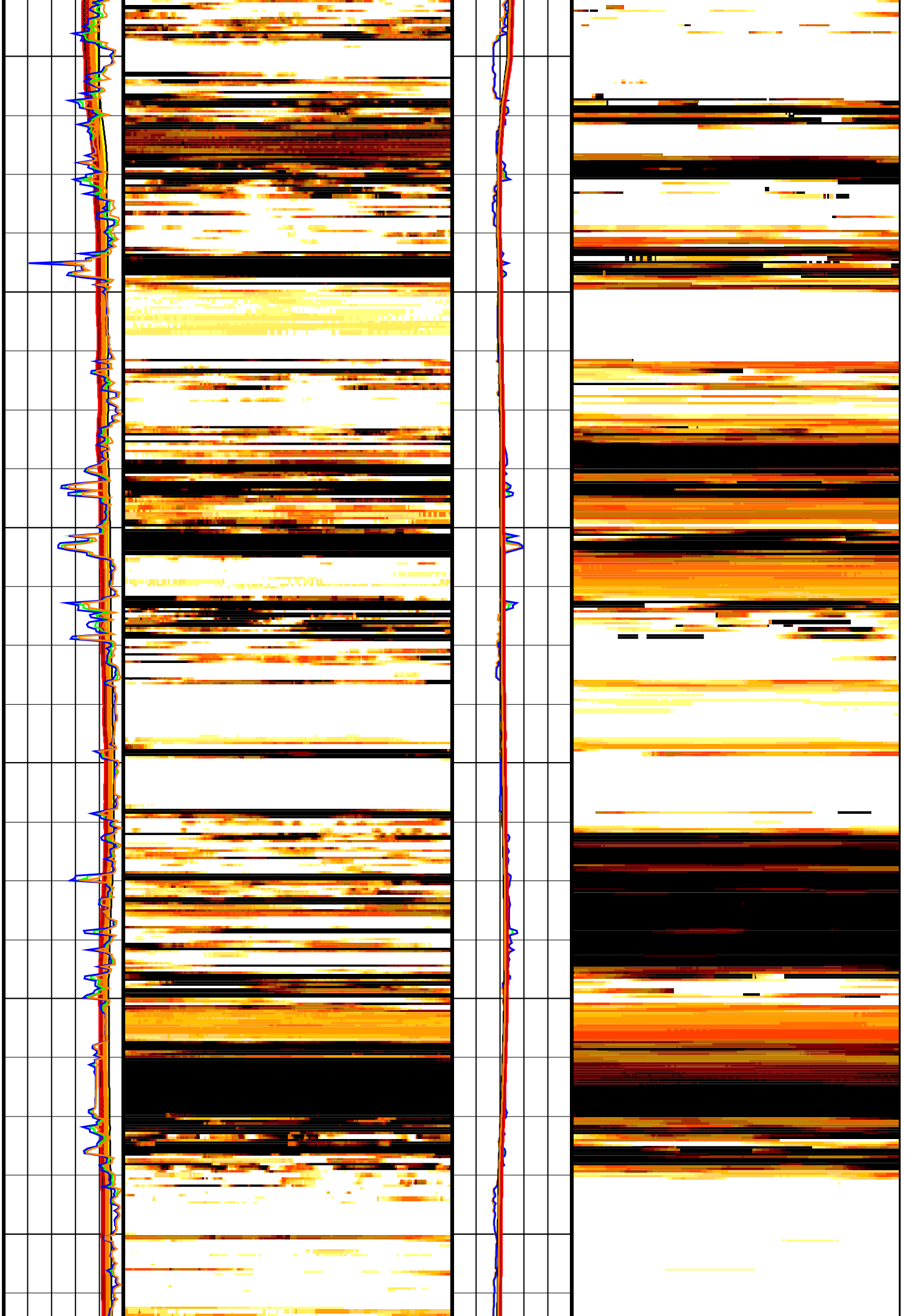
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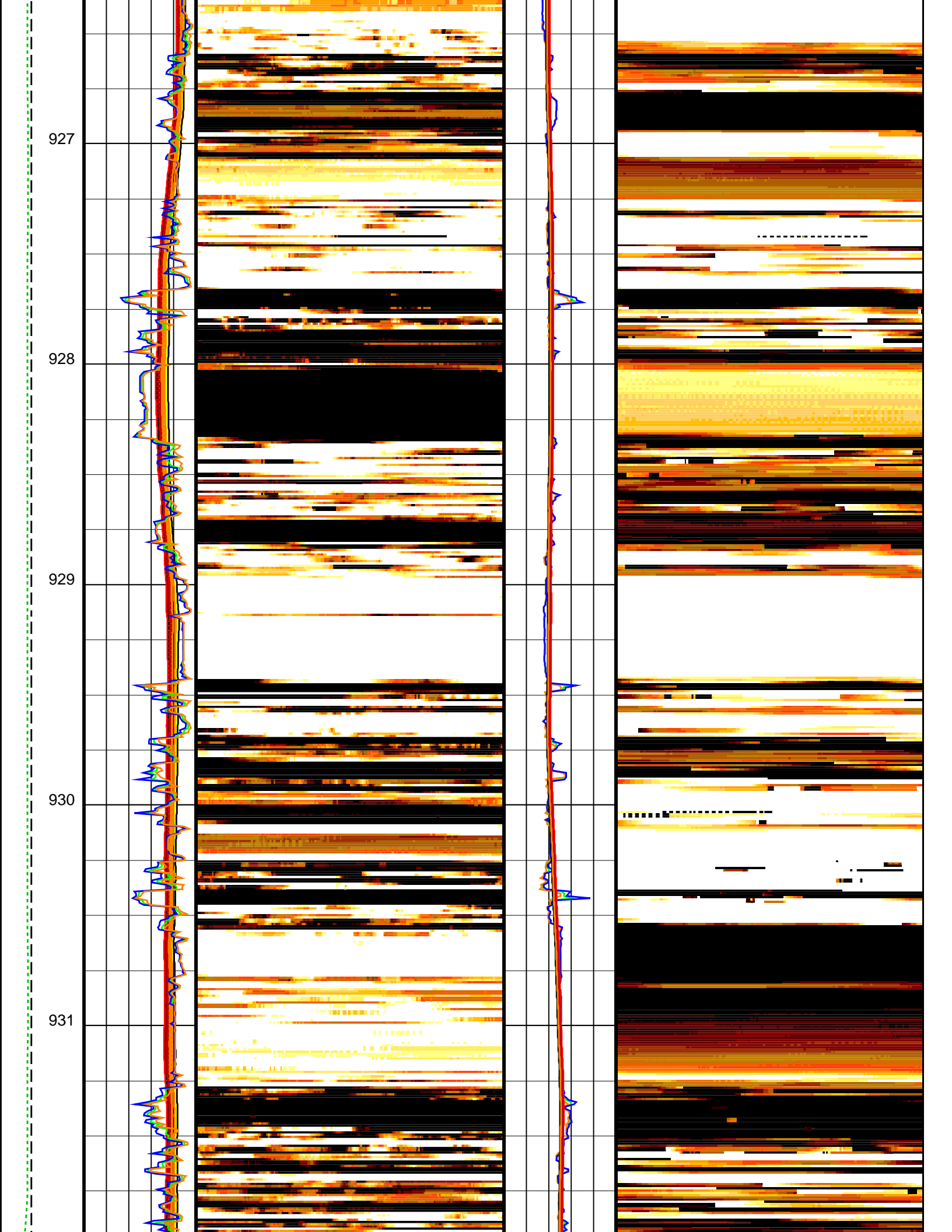
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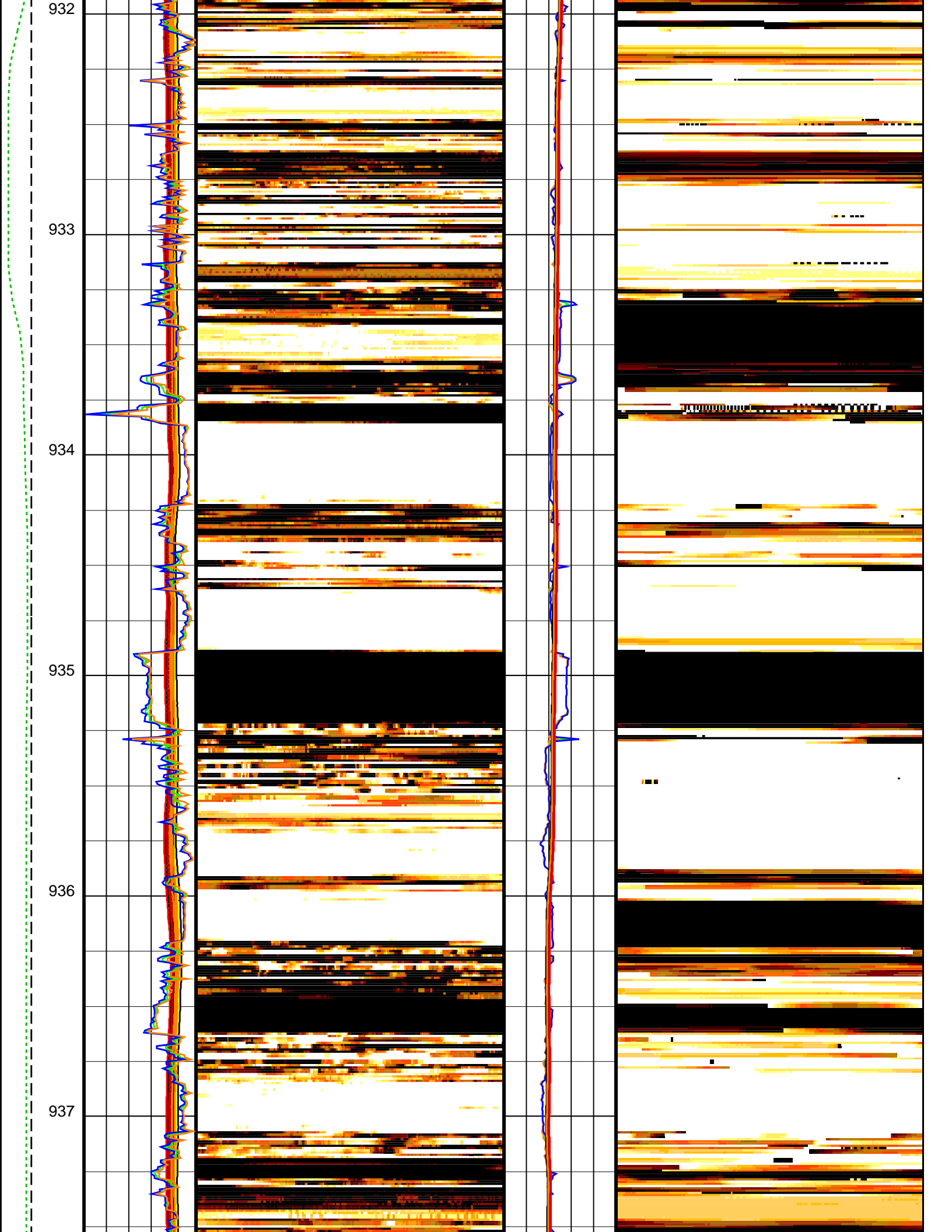
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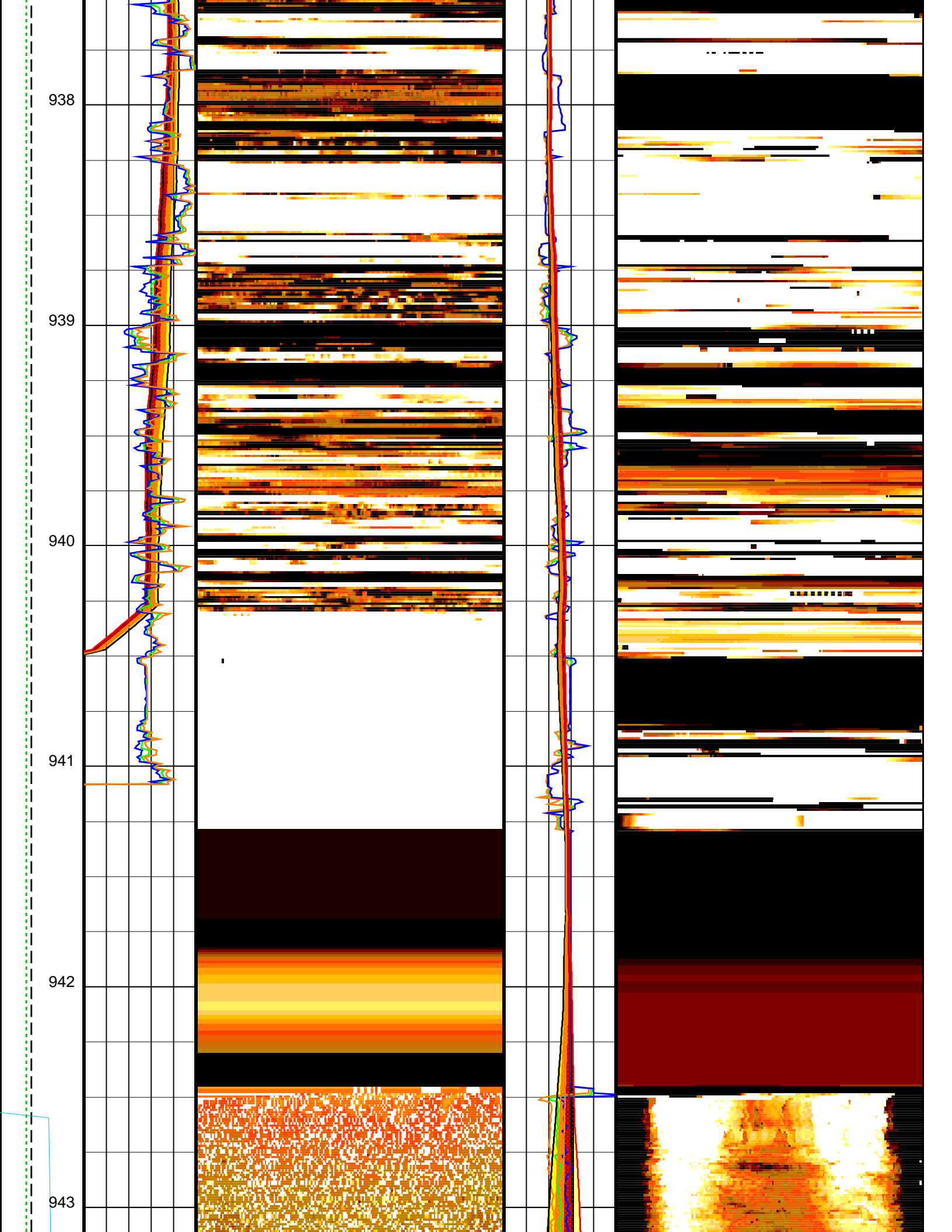
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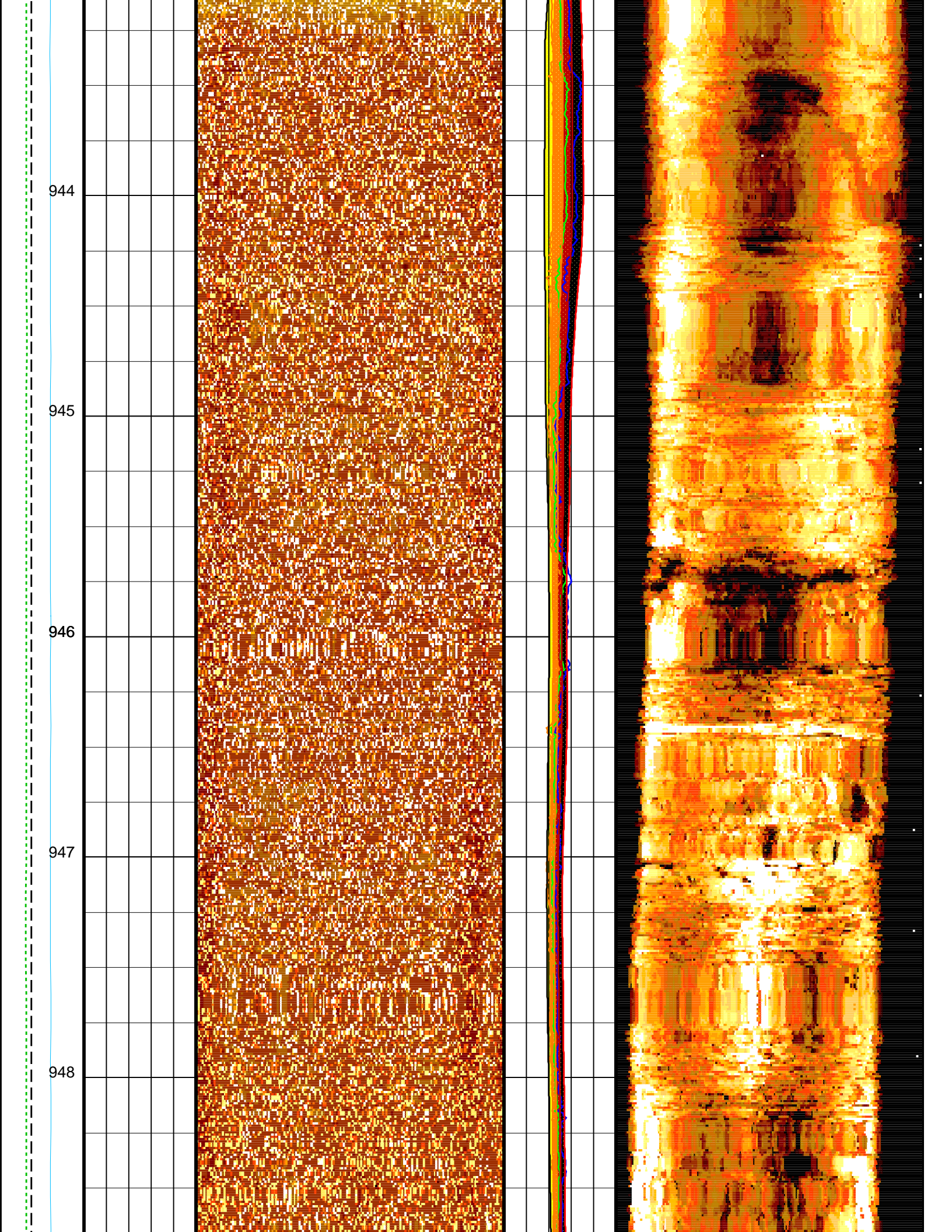
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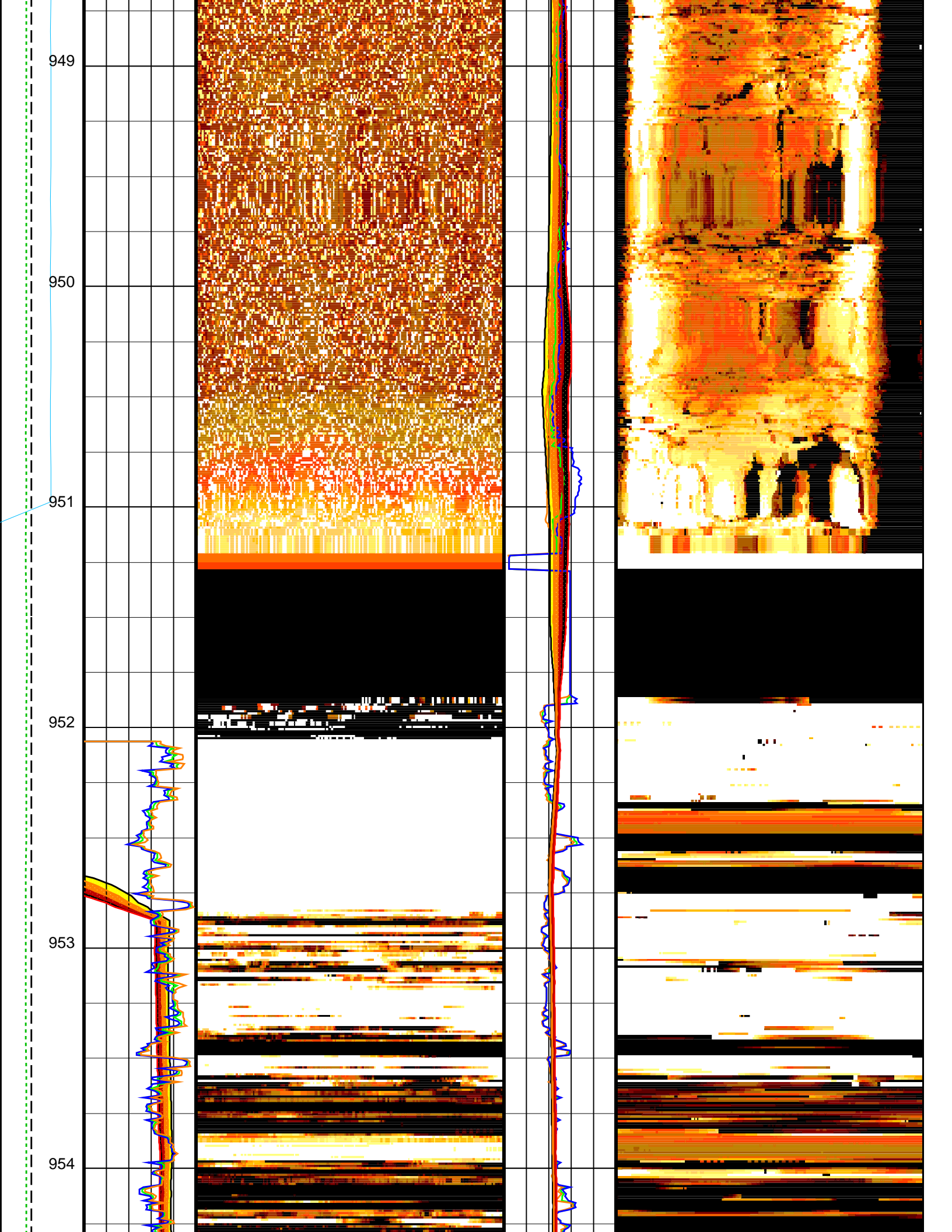


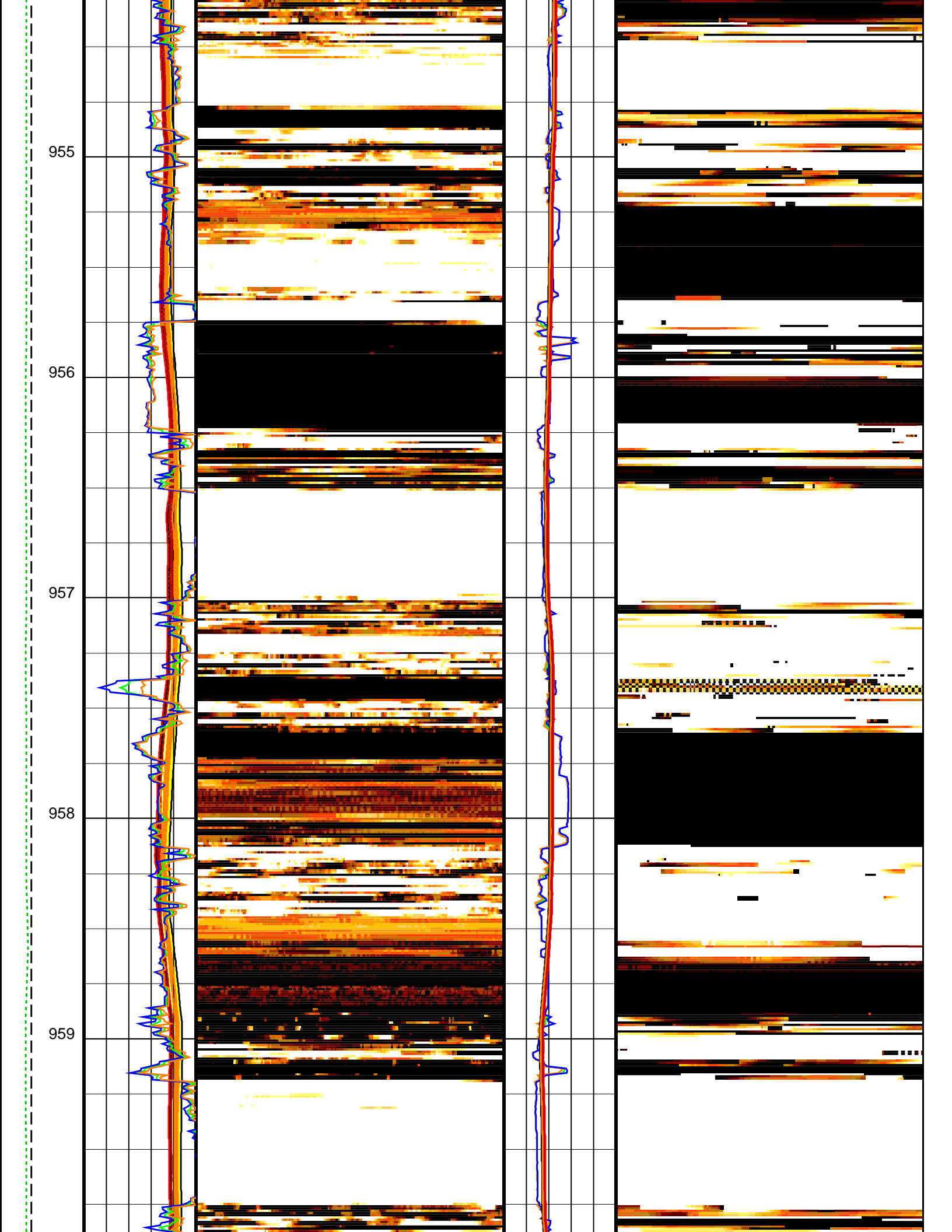


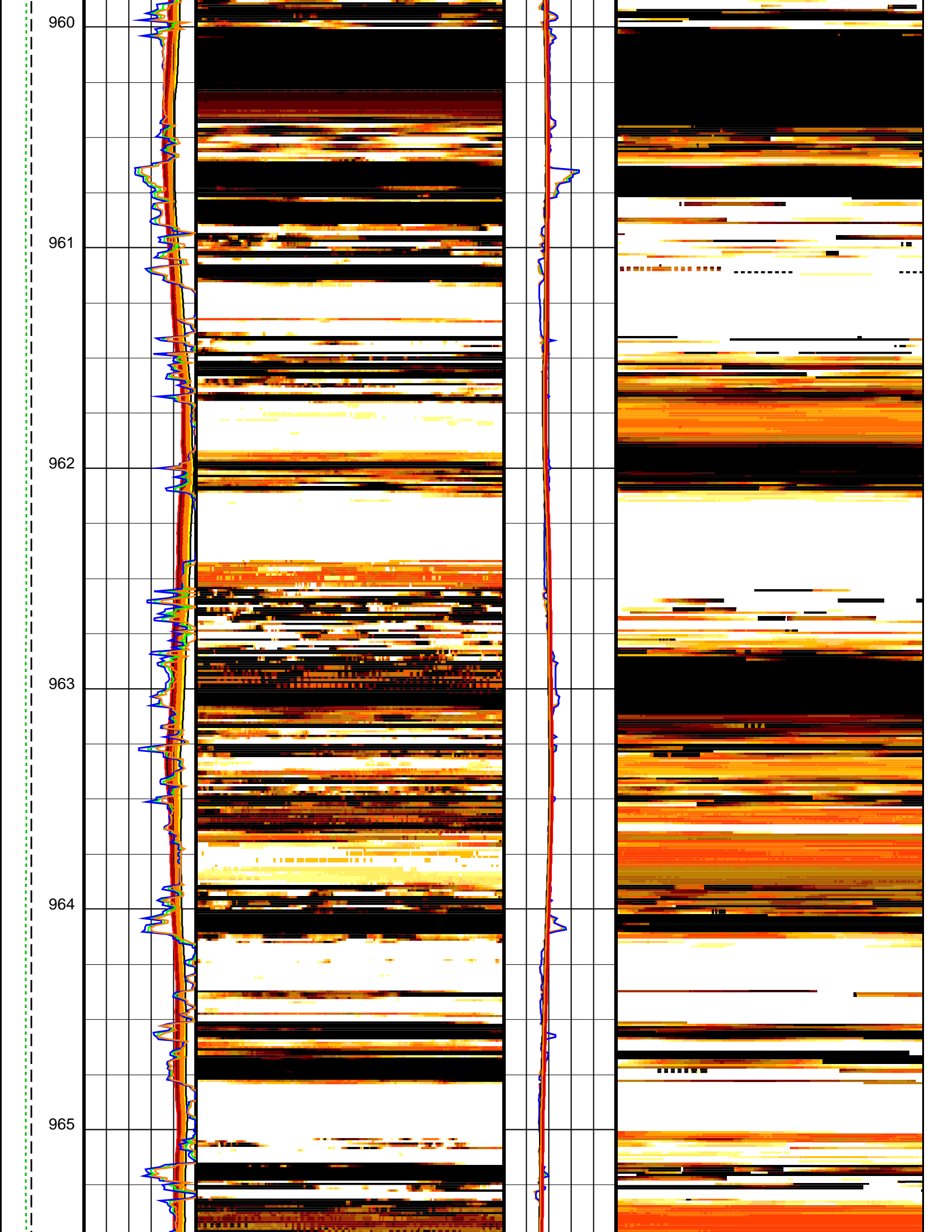


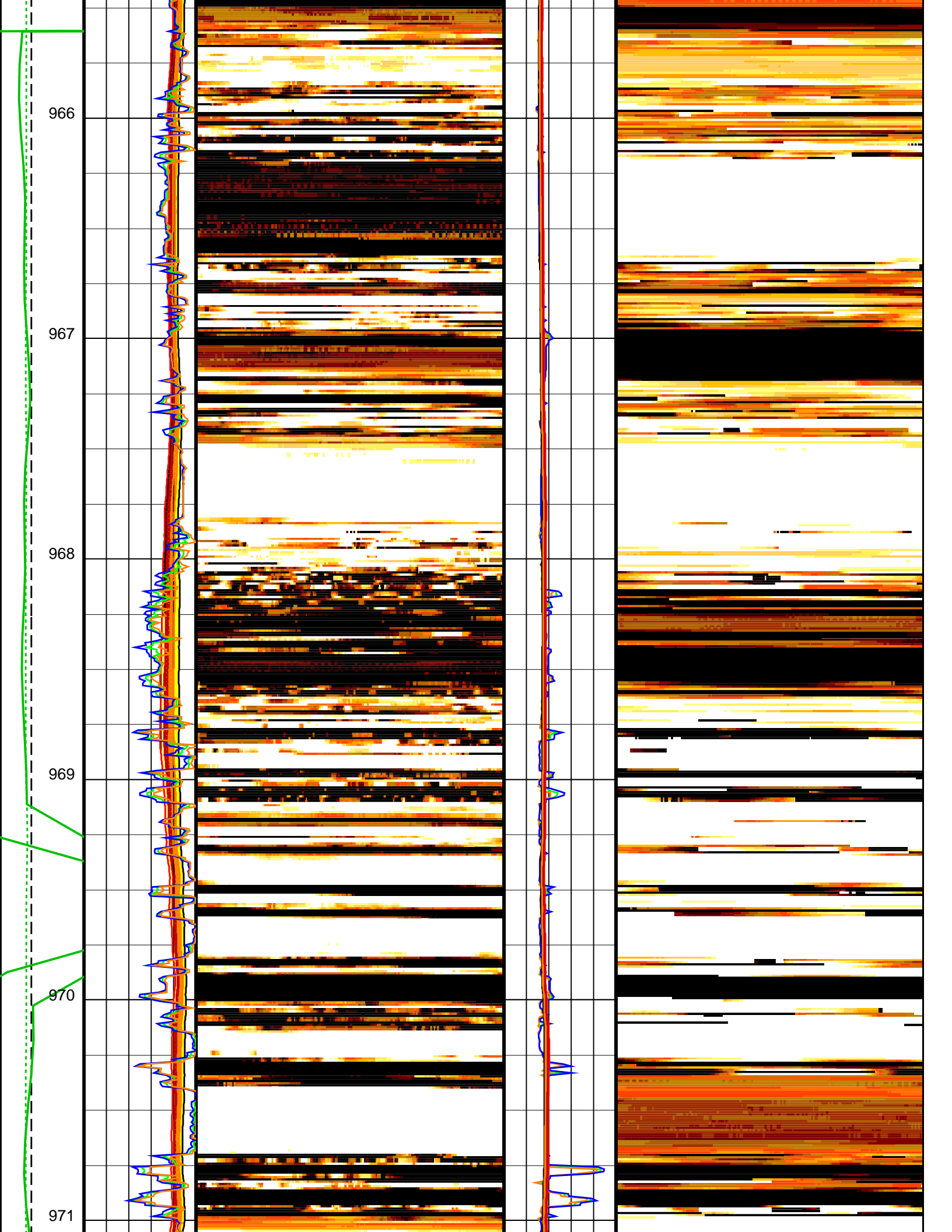


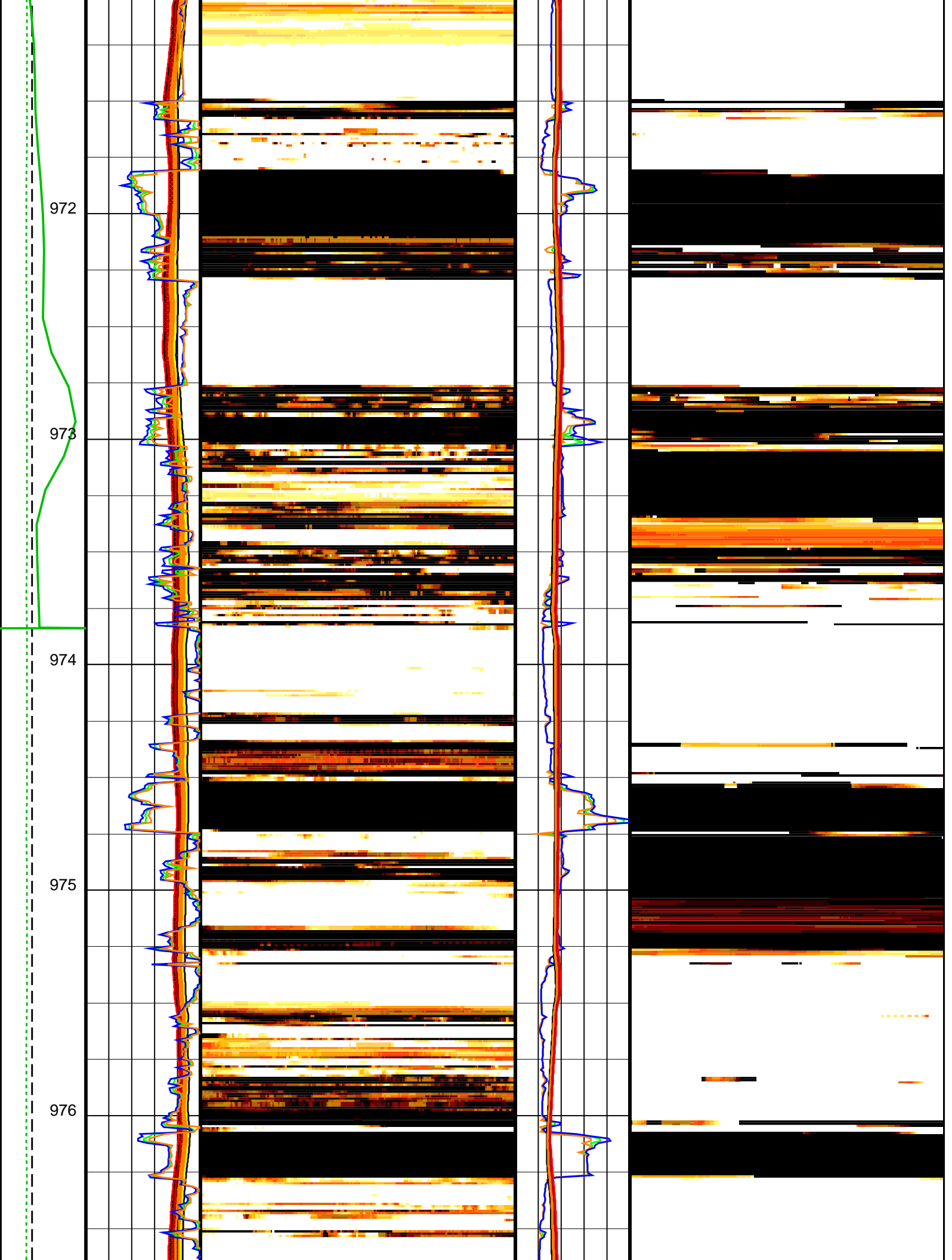


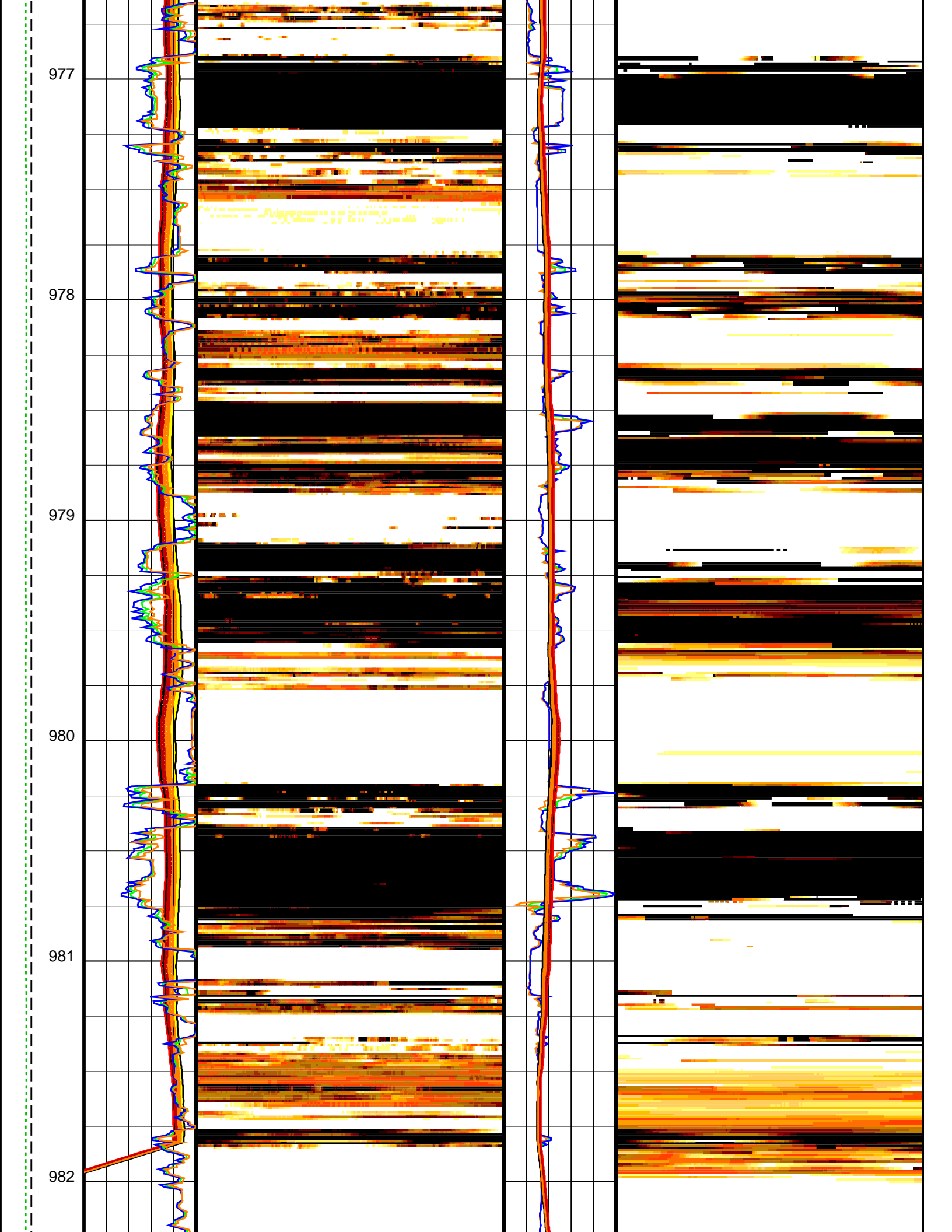


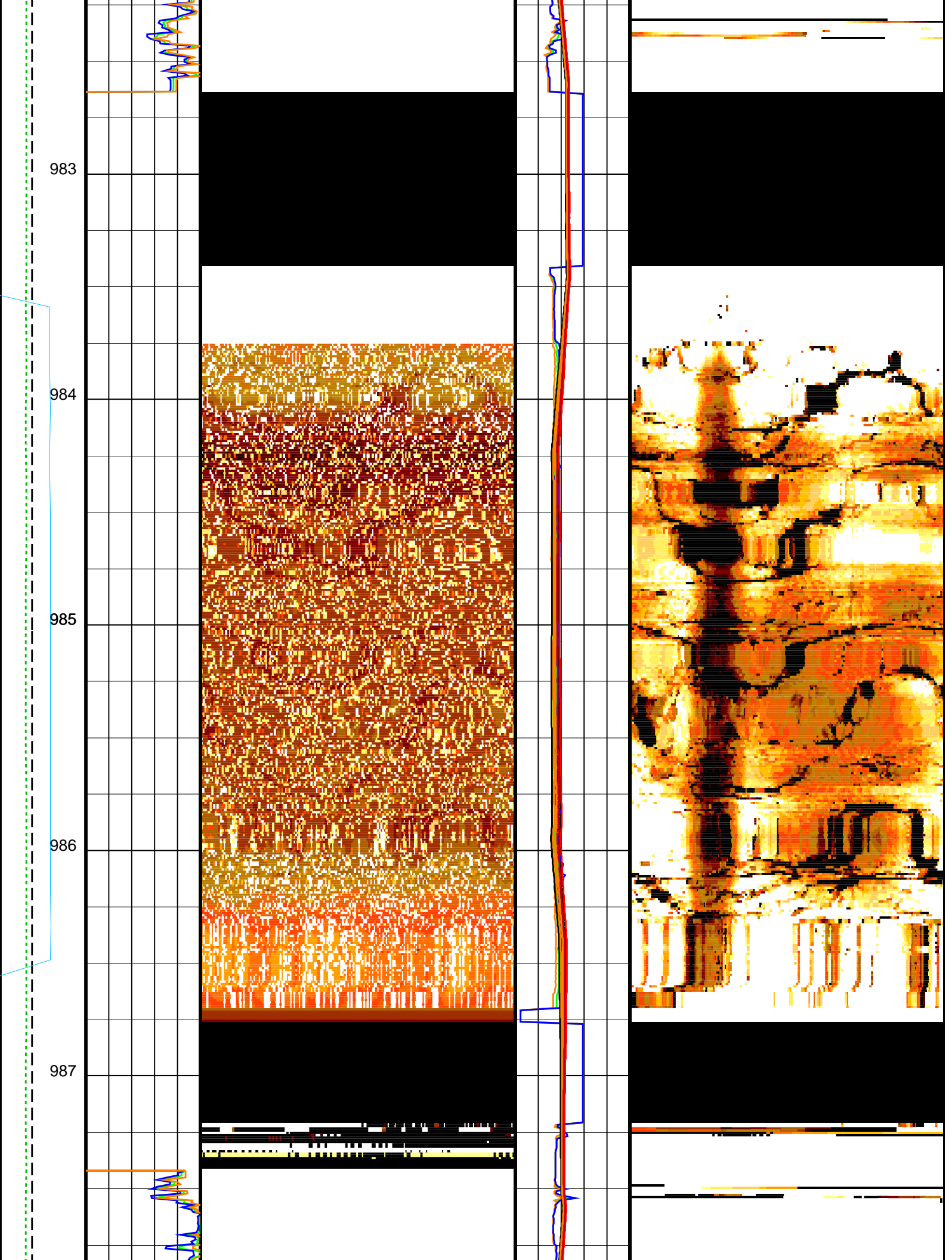


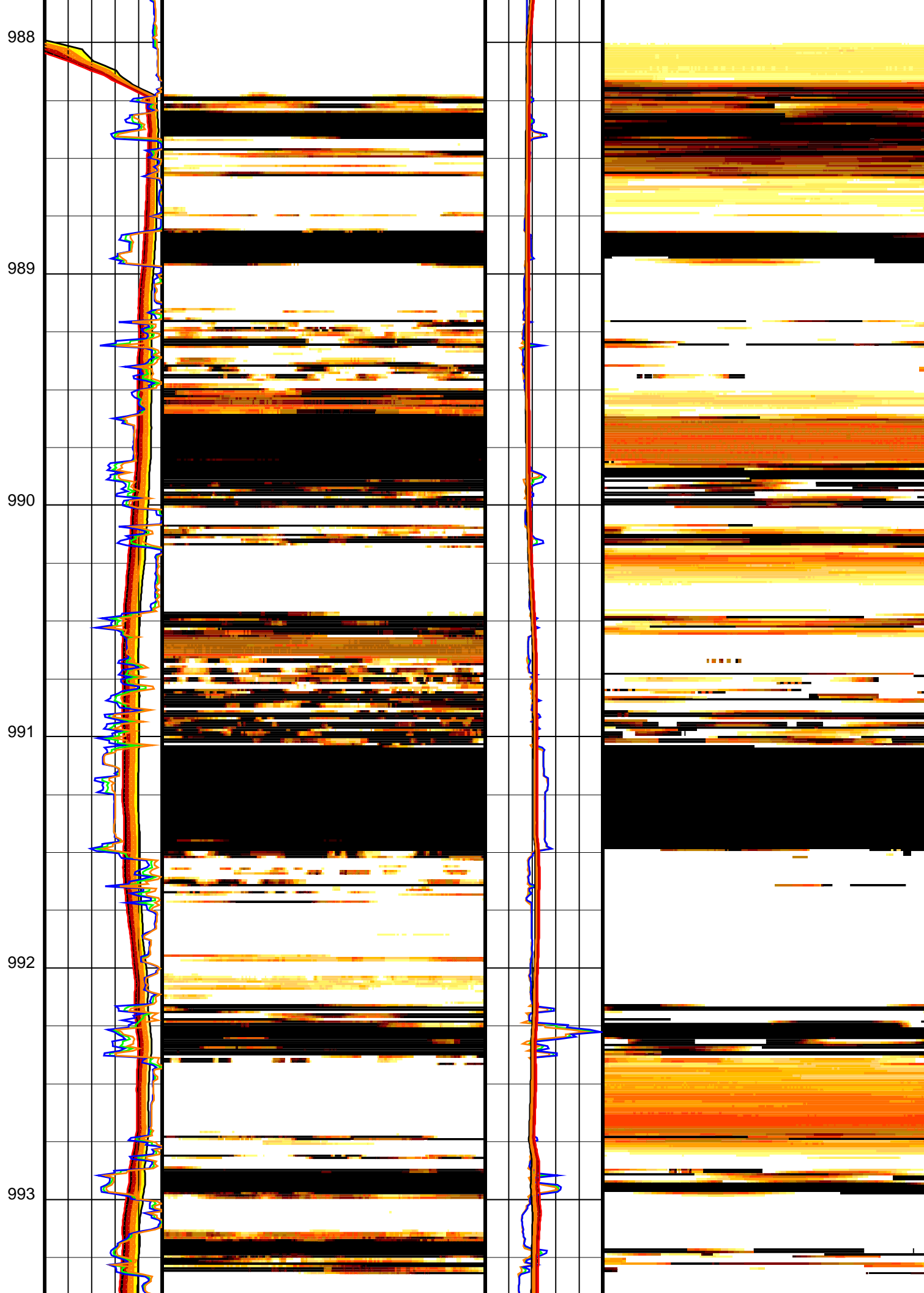


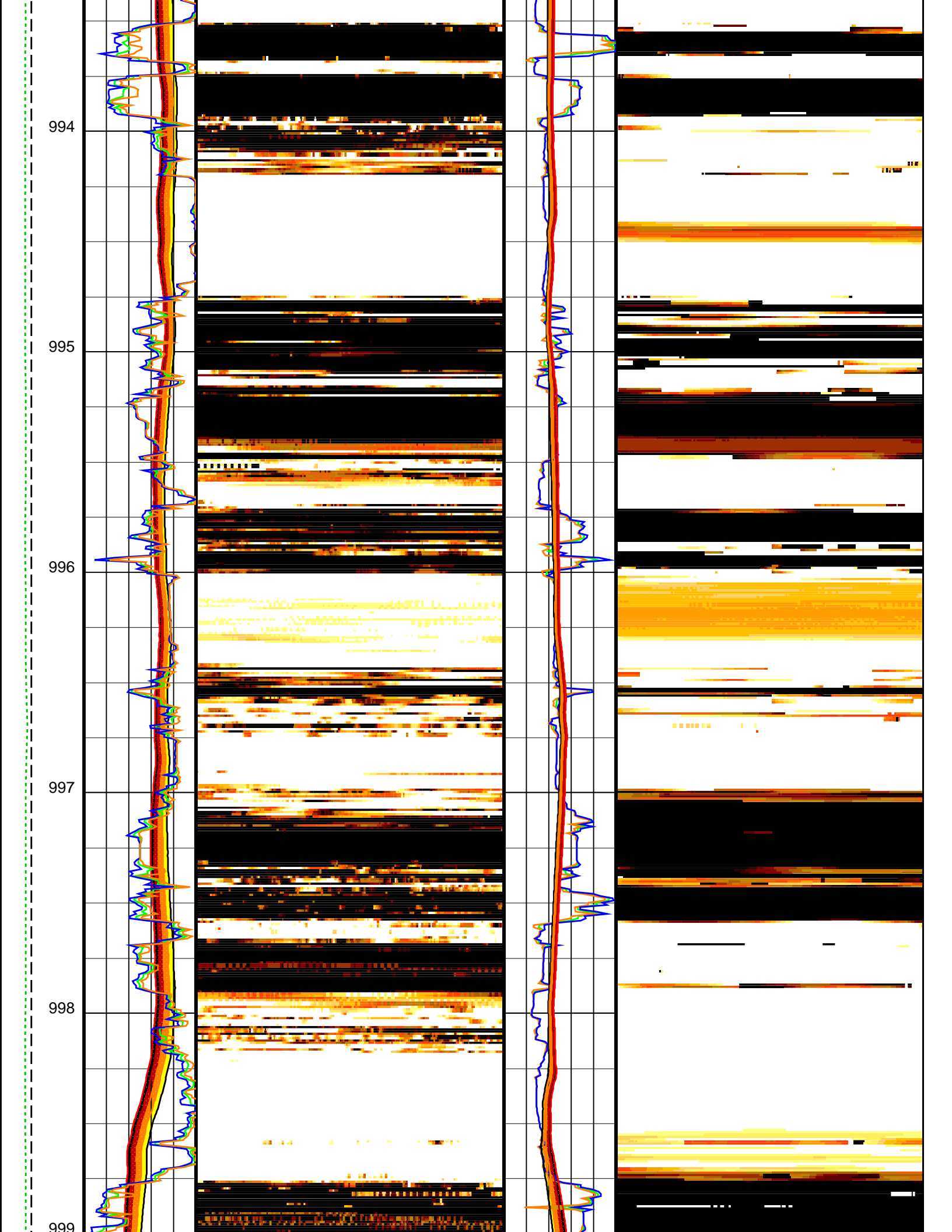


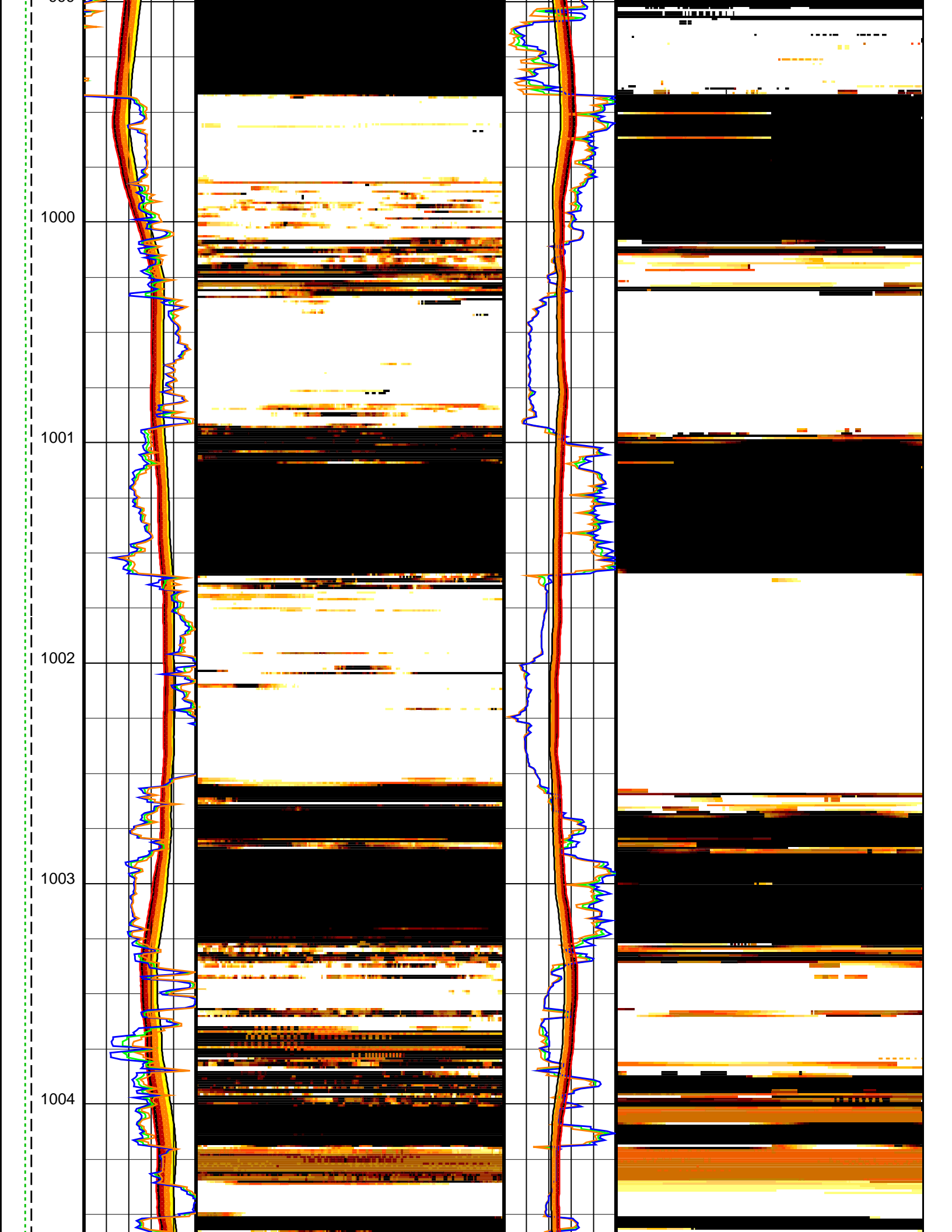


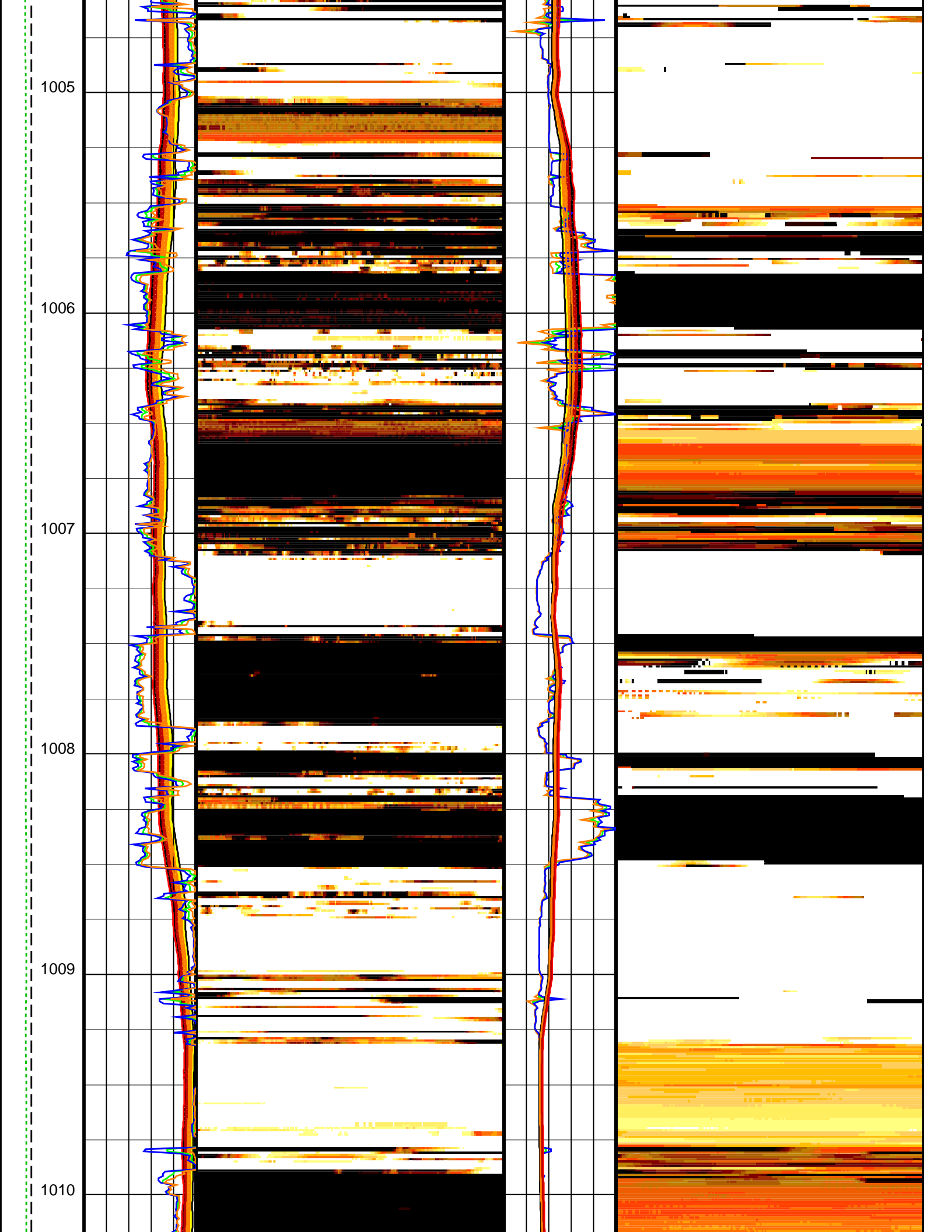


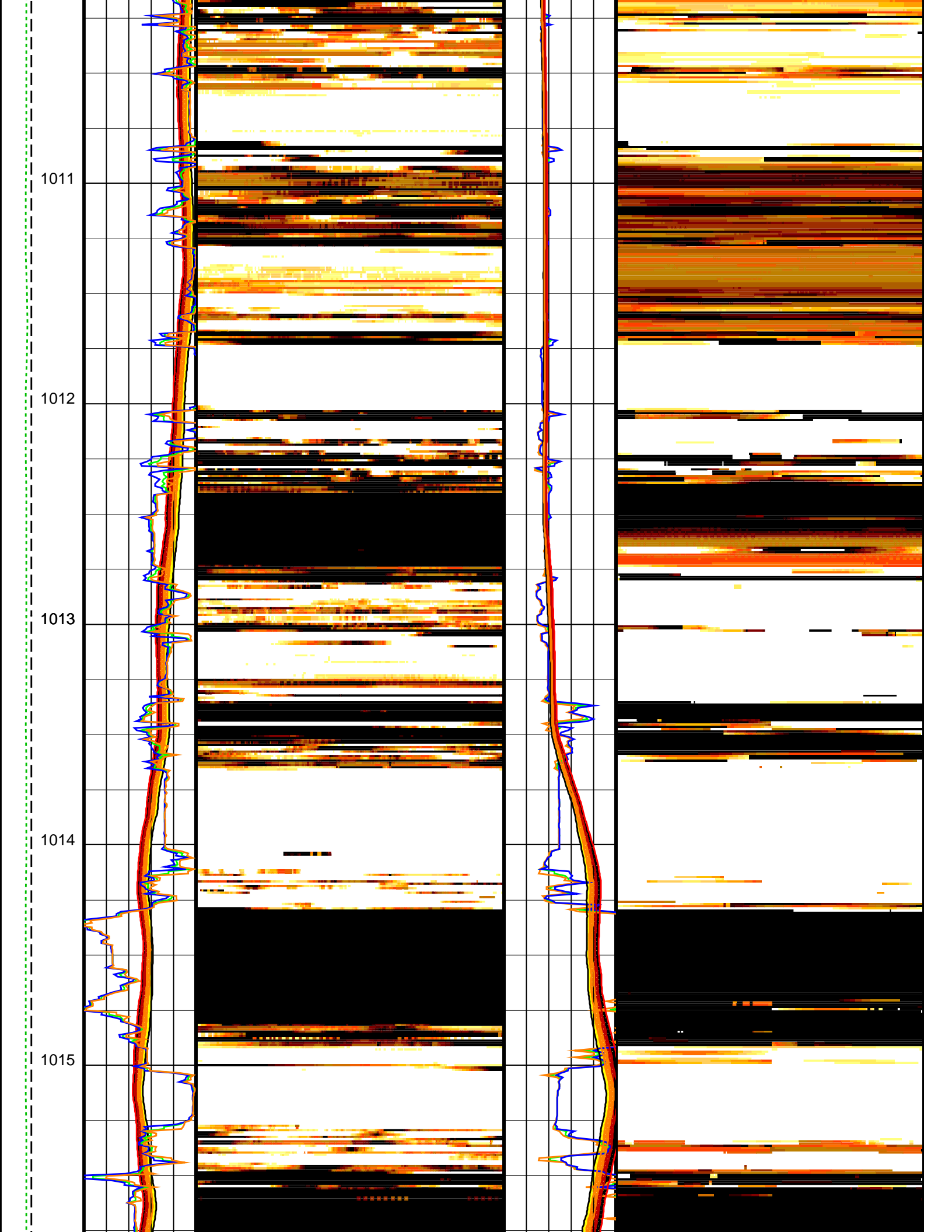


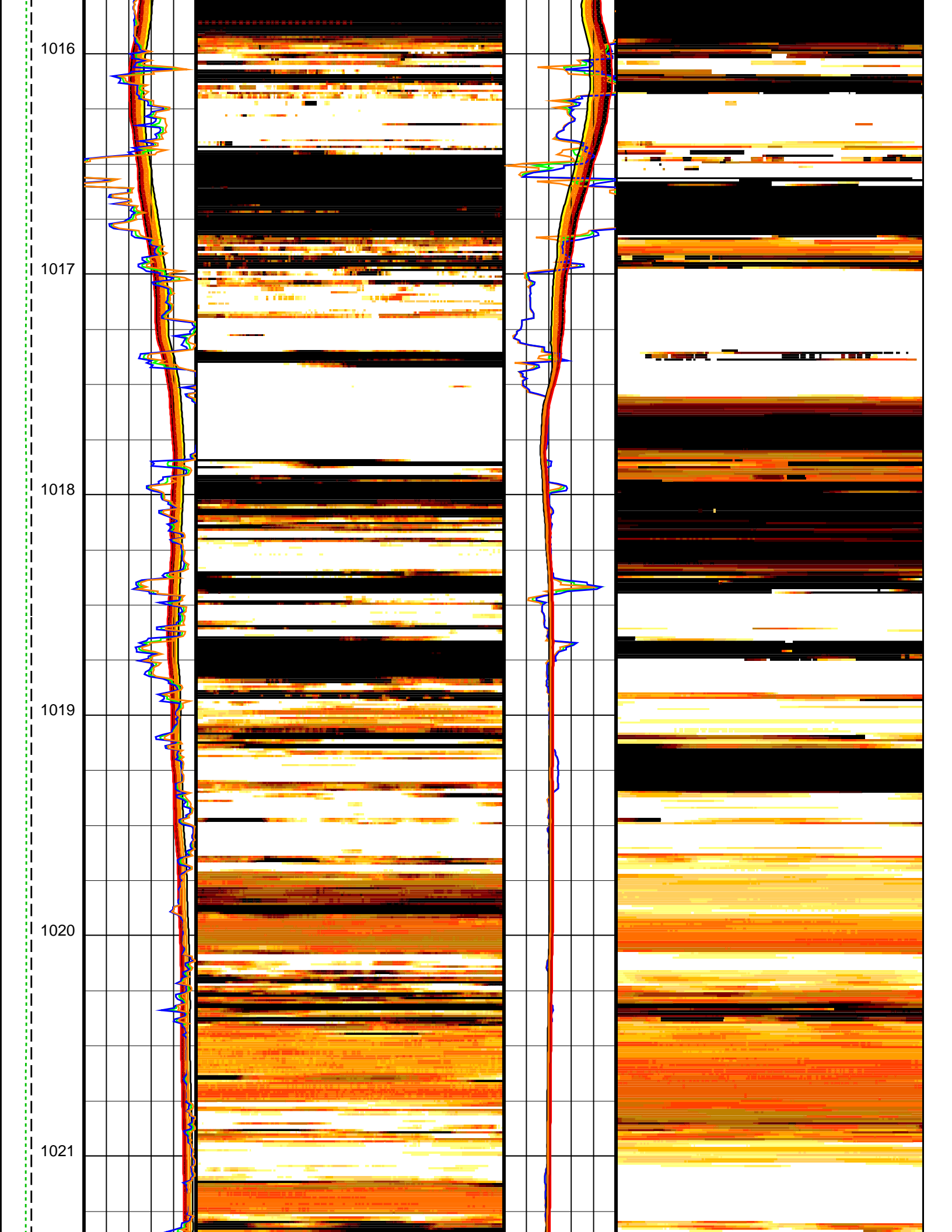


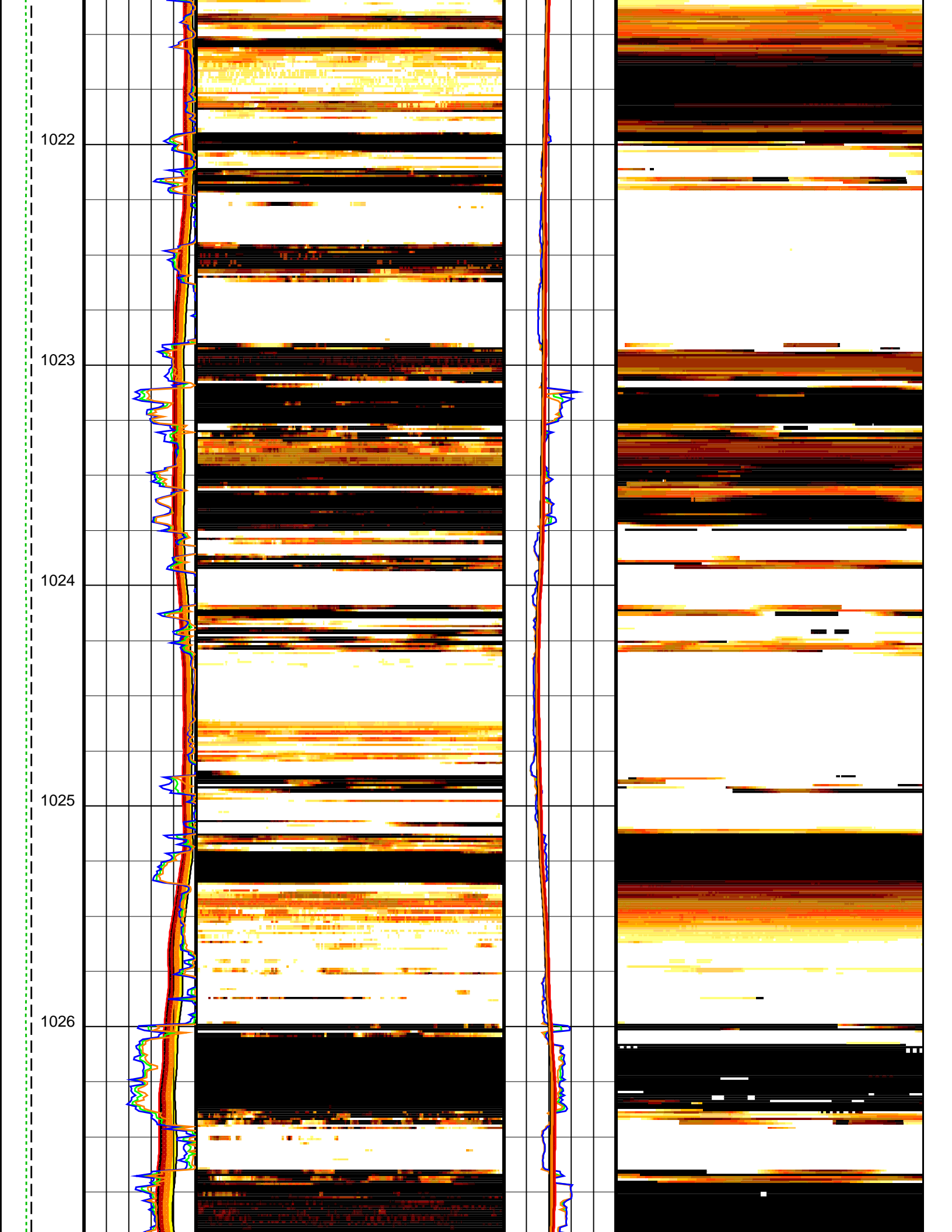


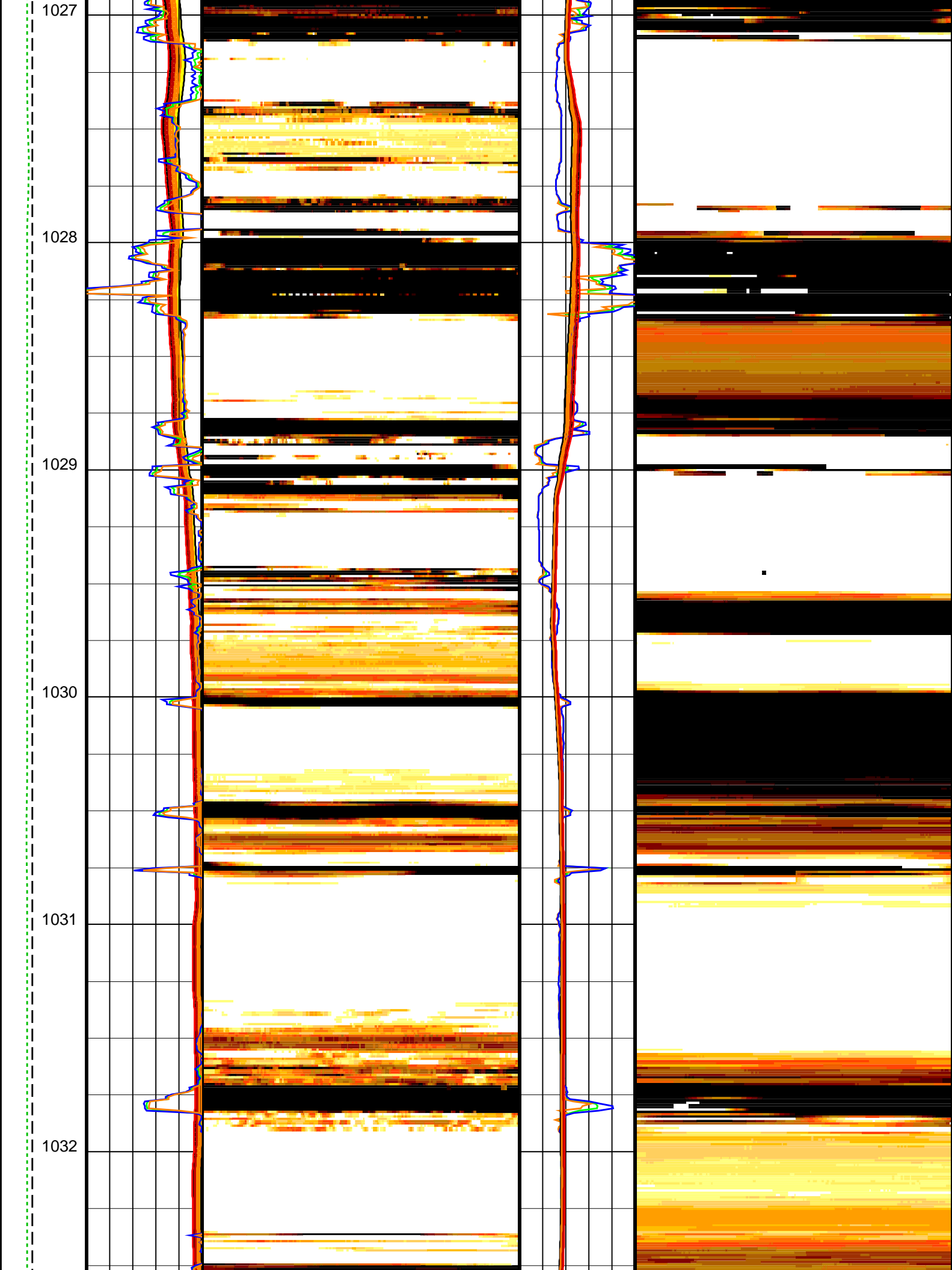


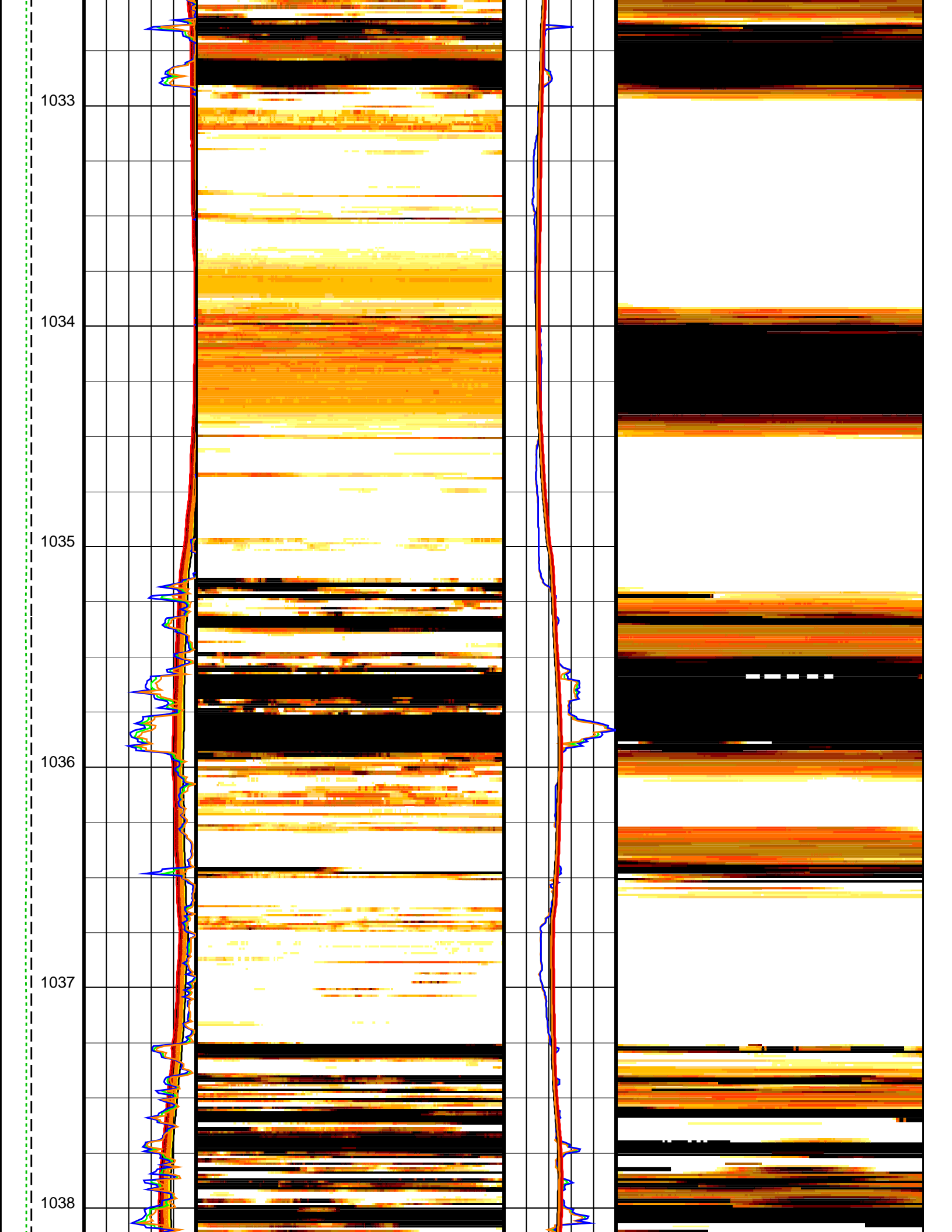


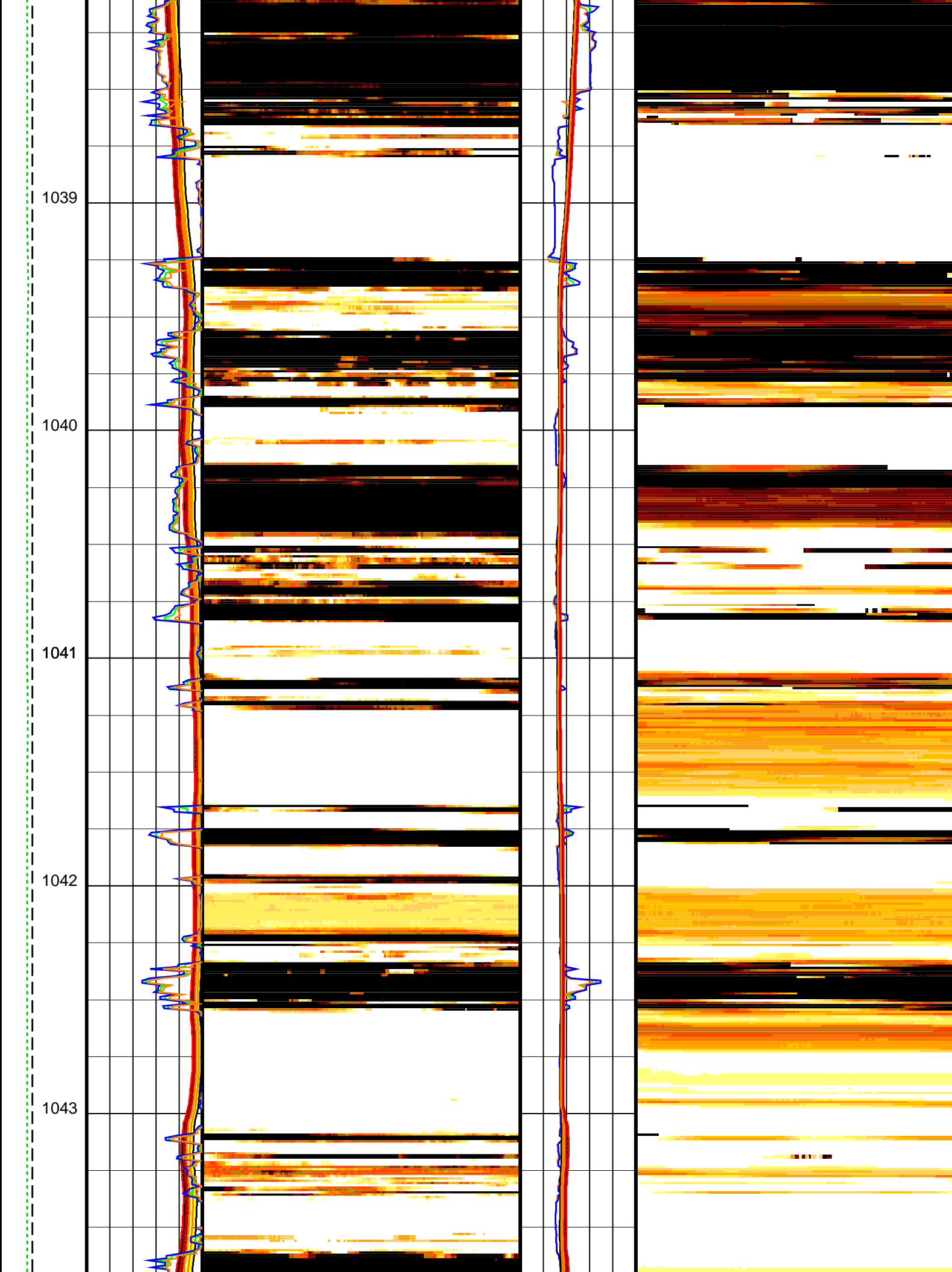


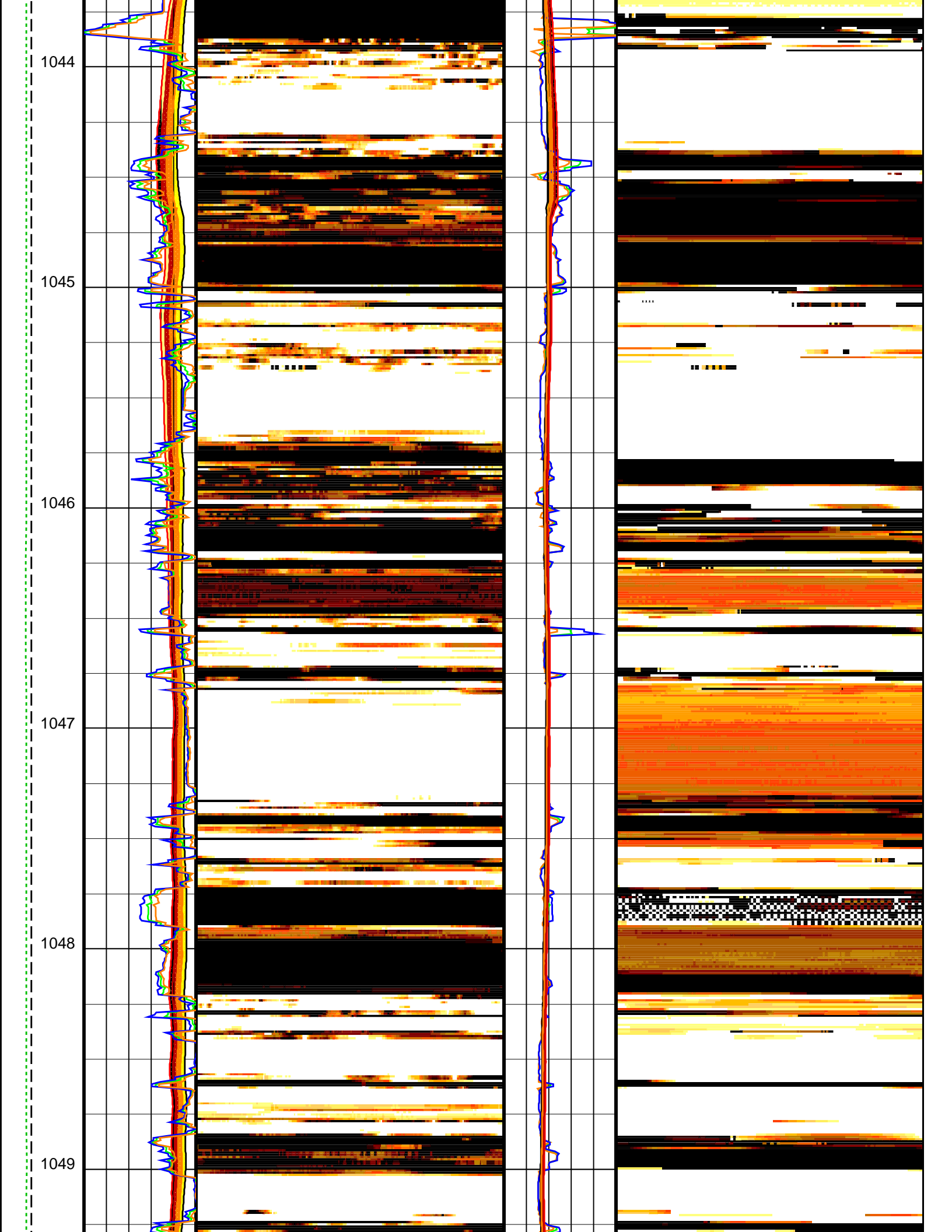


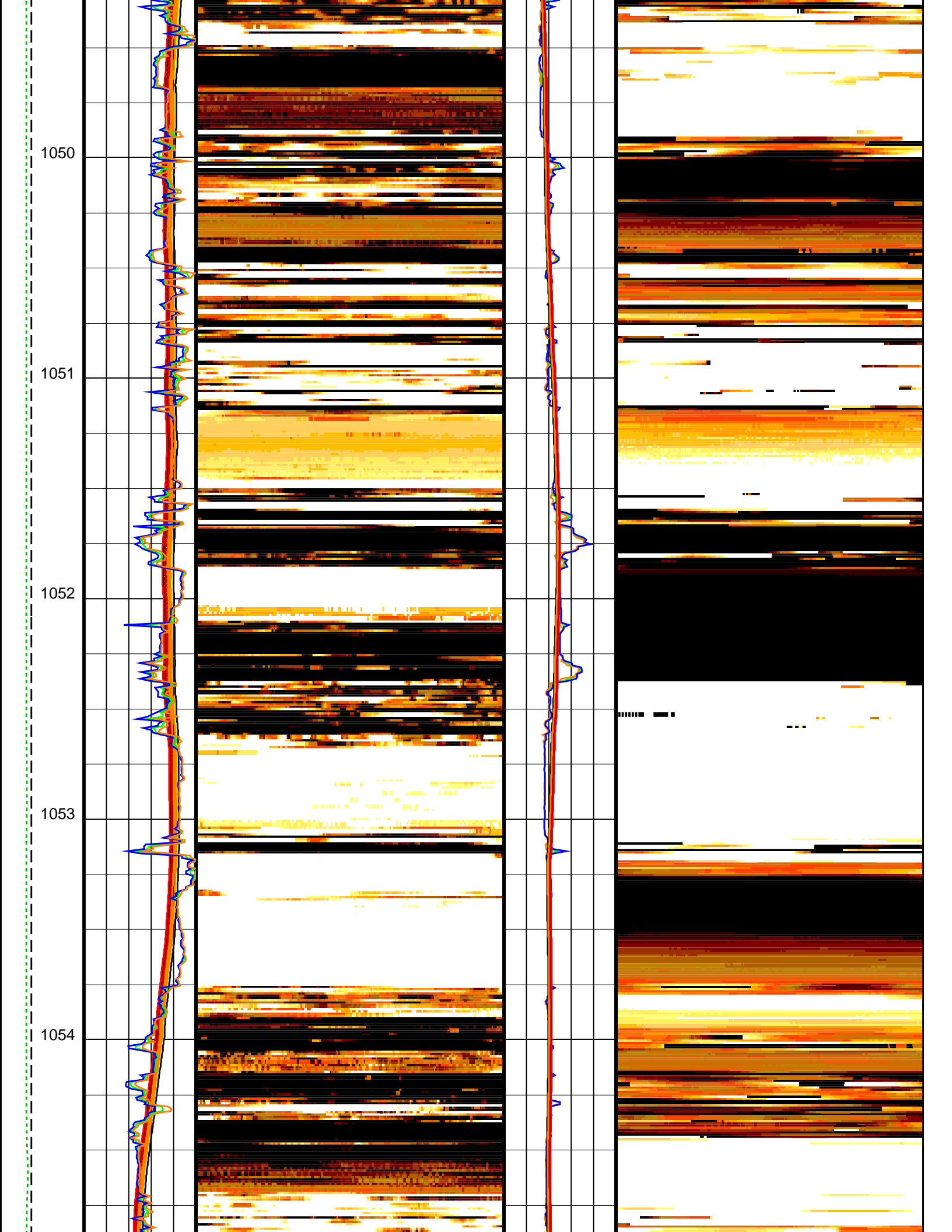


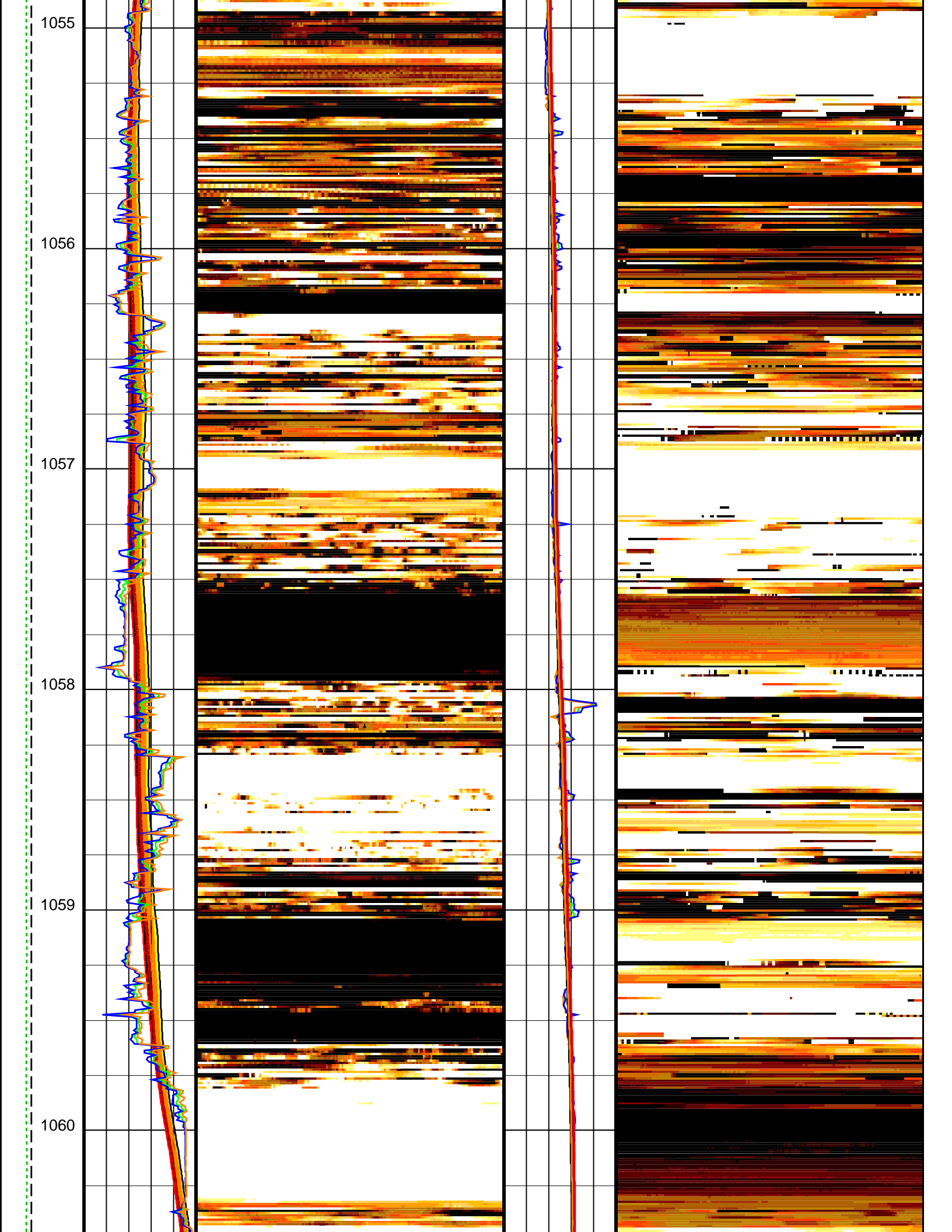


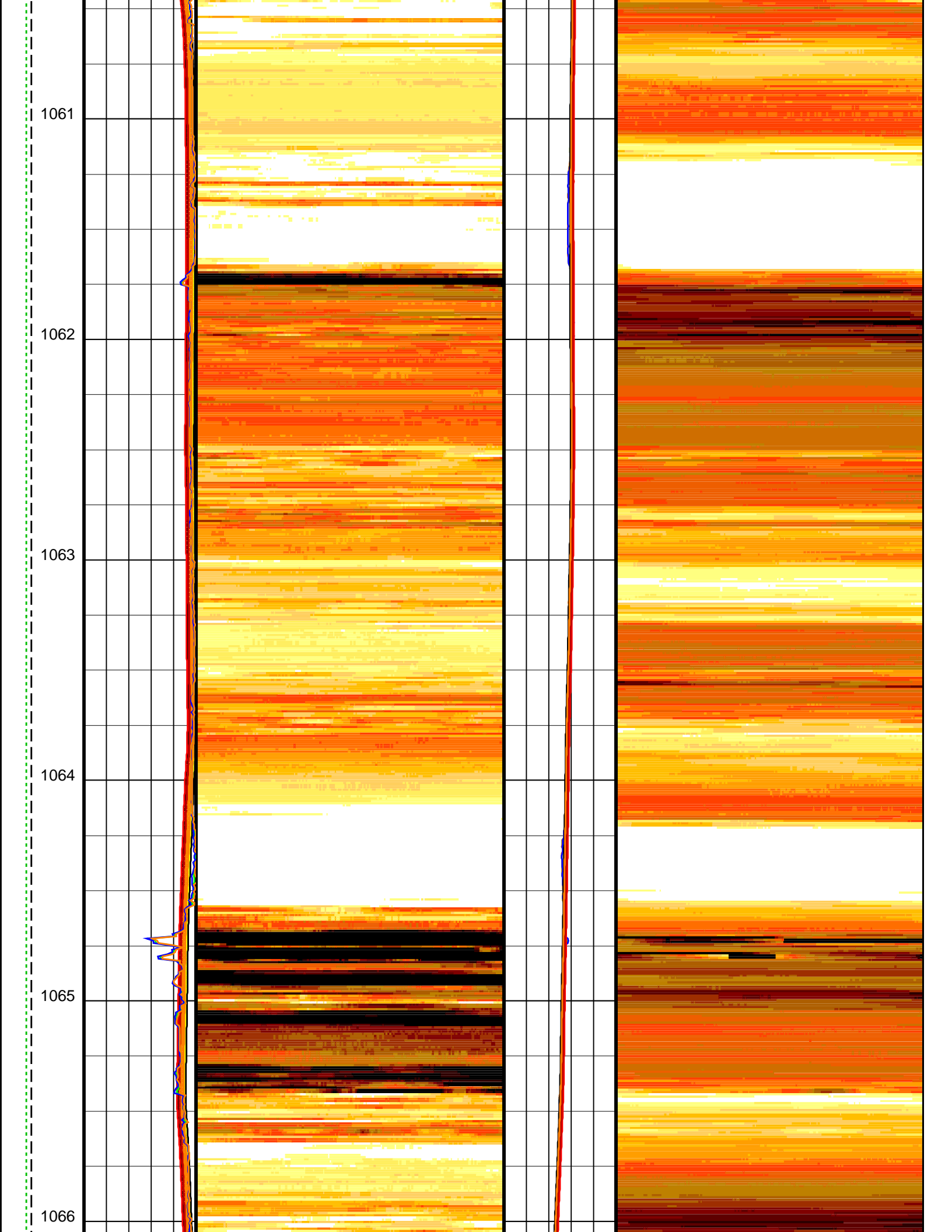










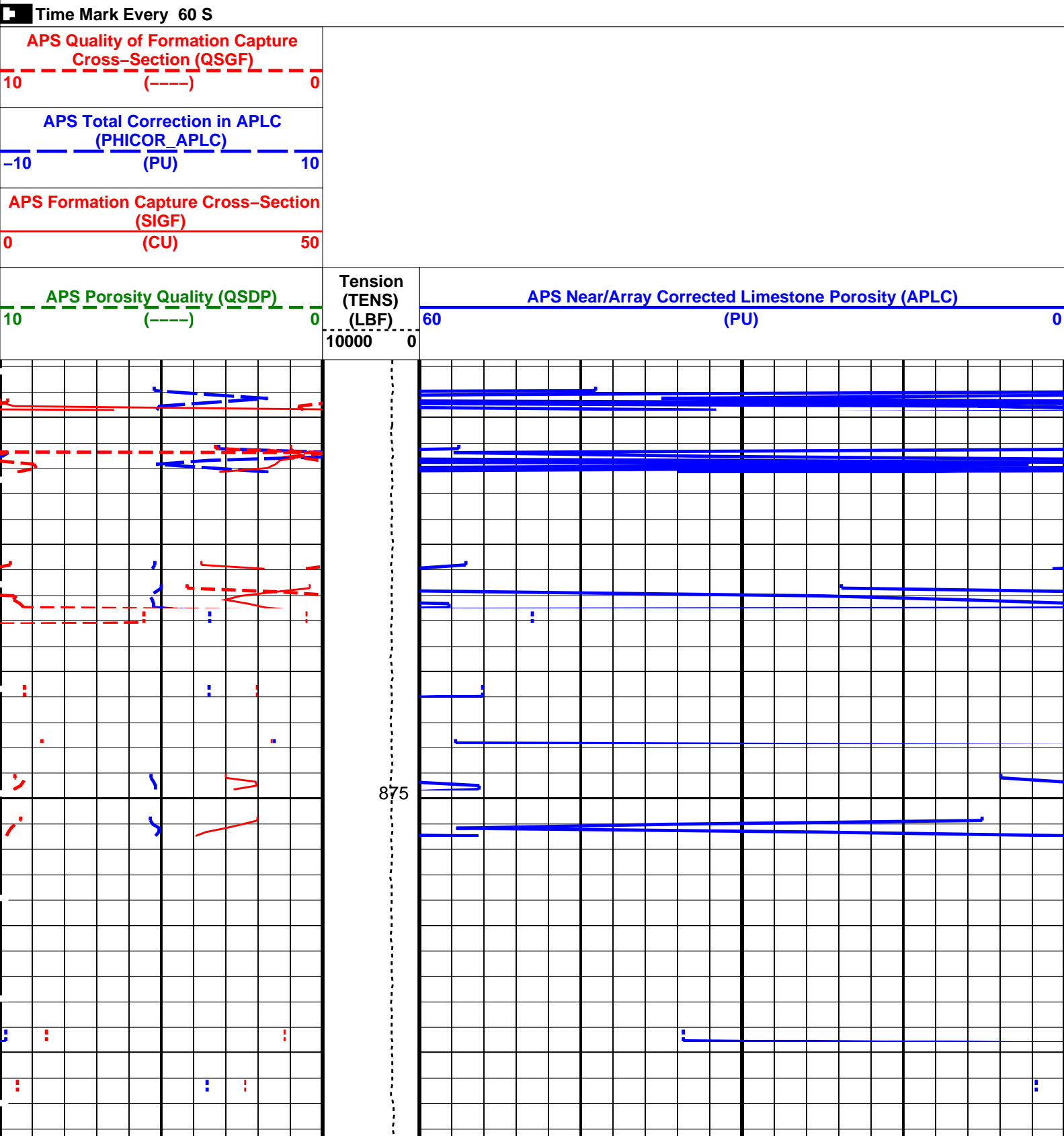


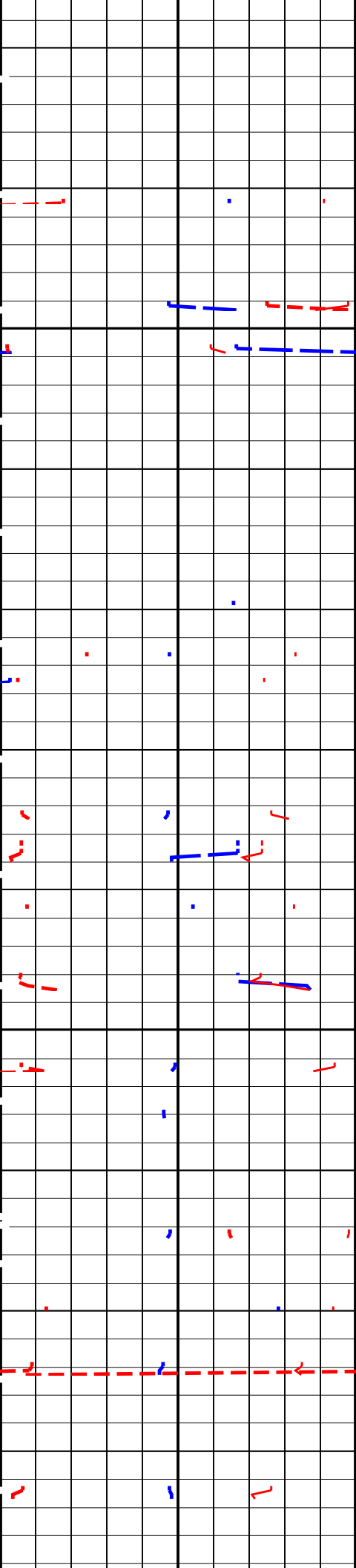
Output DLIS Files

OP System Version: 19C0-187

UBI-E	19C0-187	GPIT-A/B	19C0-187
DTA-A	19C0-187	HRLT-B	19C0-187
APS-C	19C0-187	EDTC-B	19C0-187

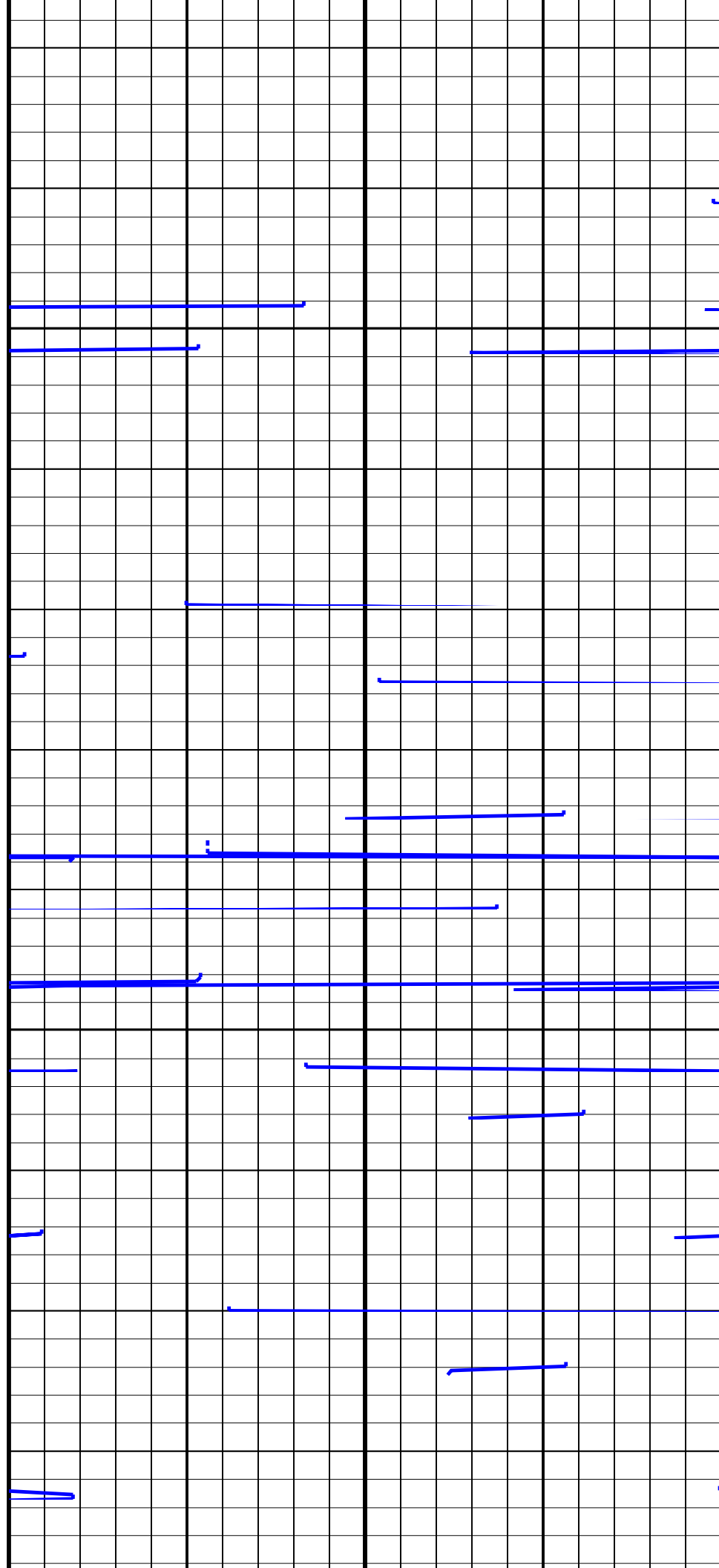
PIP SUMMARY

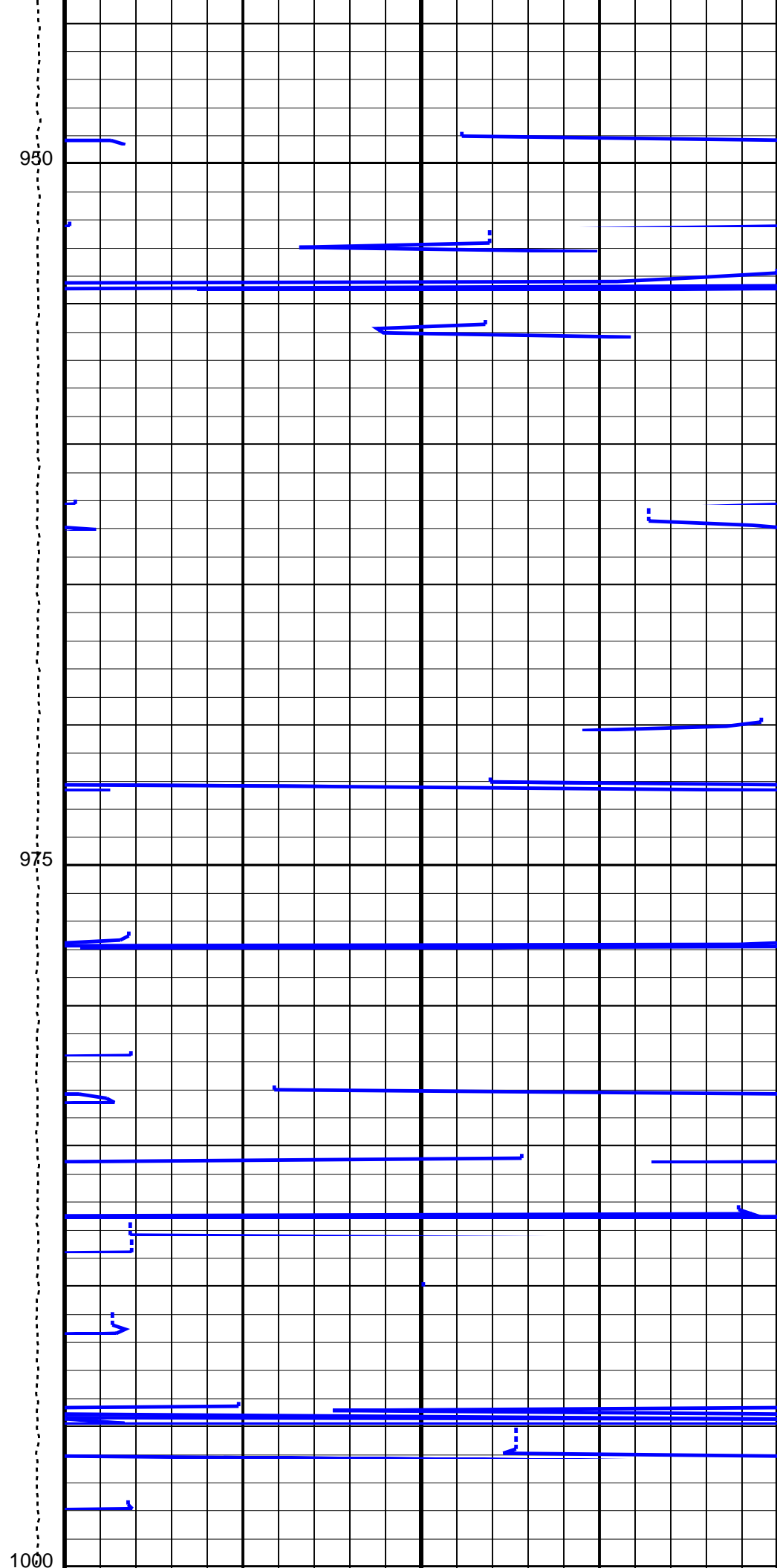
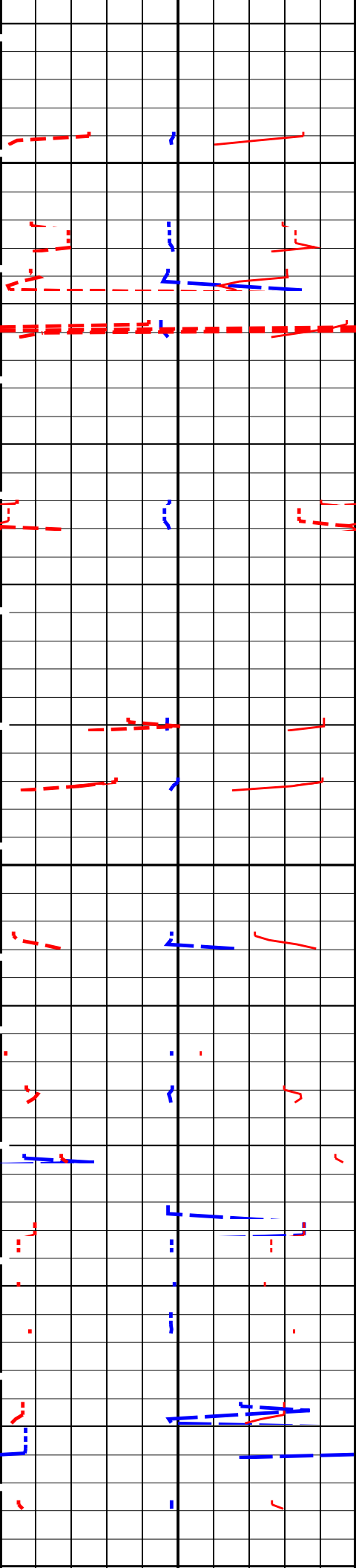


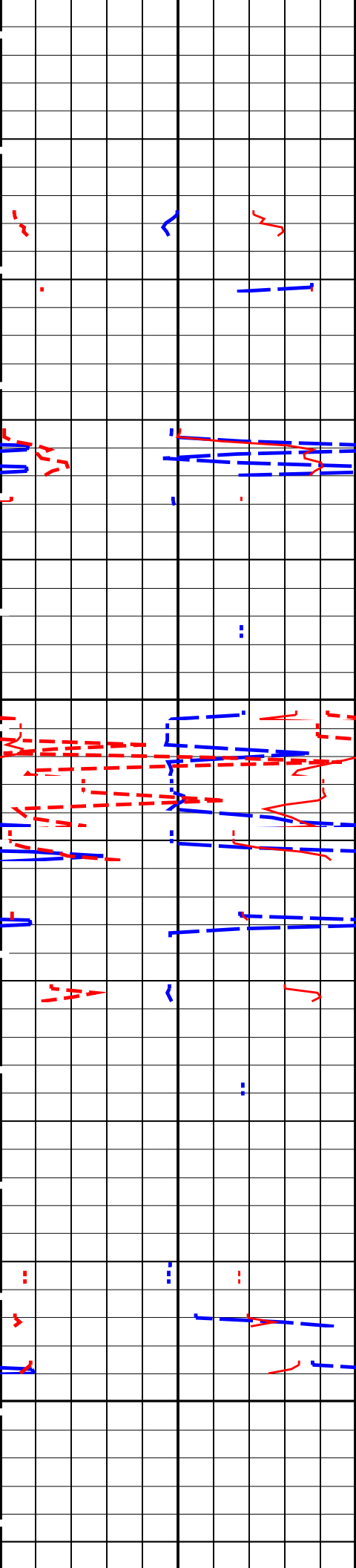


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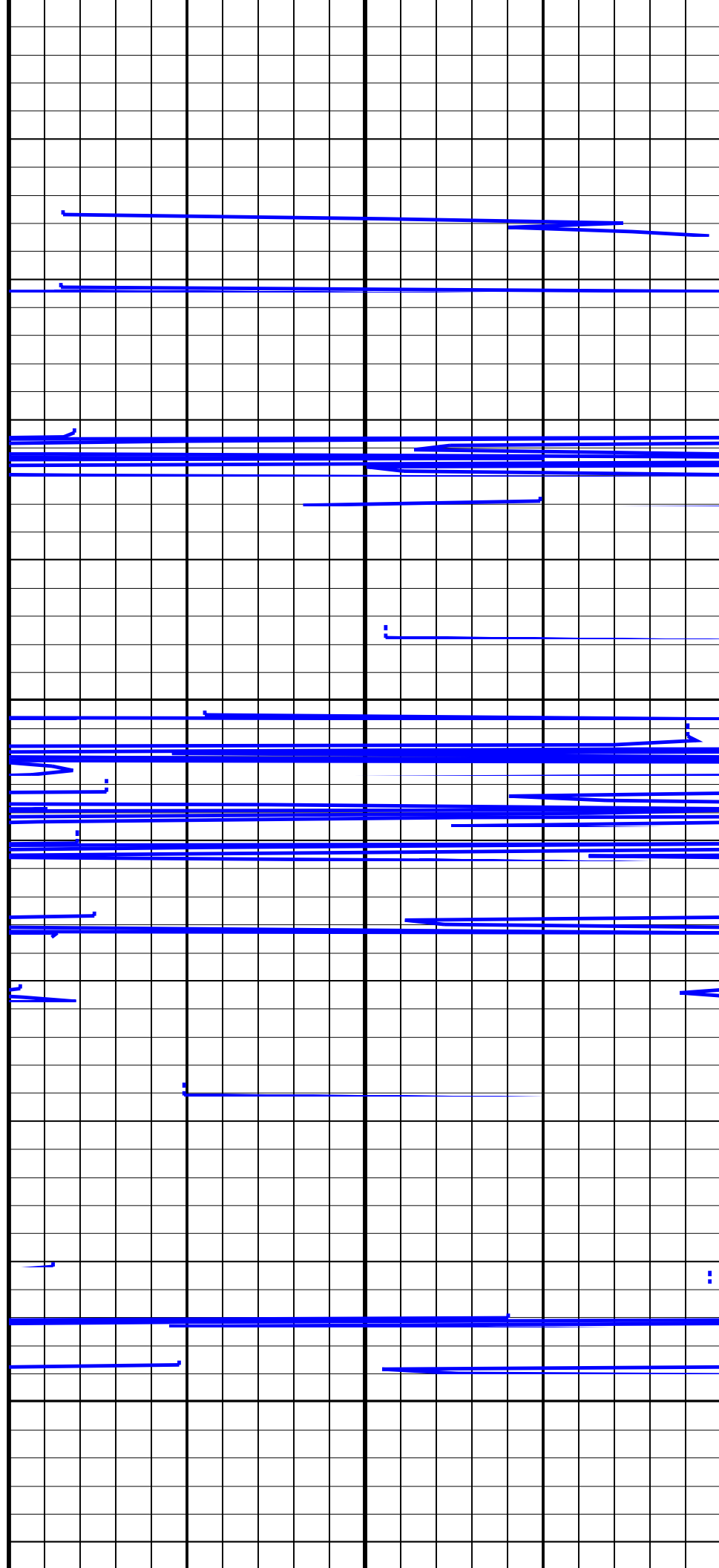


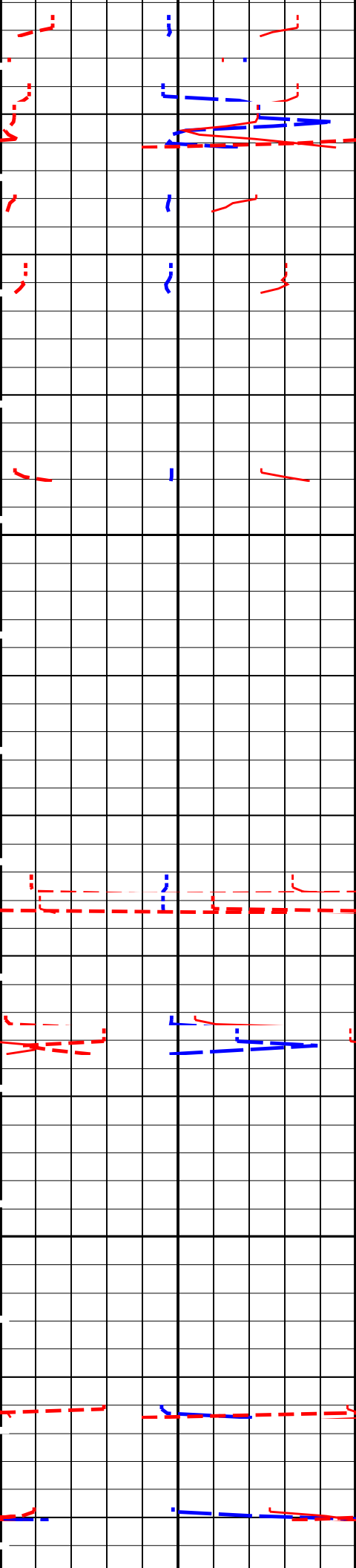




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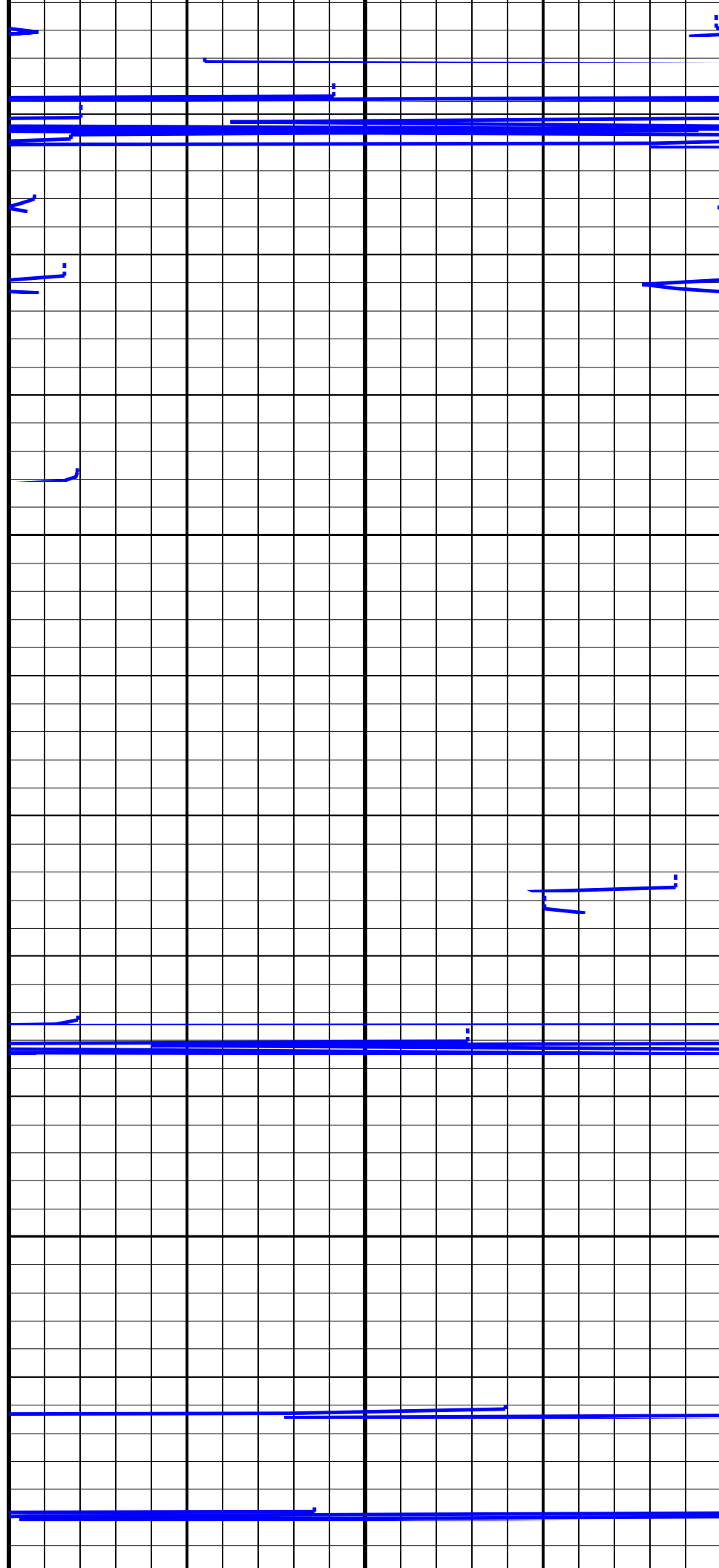
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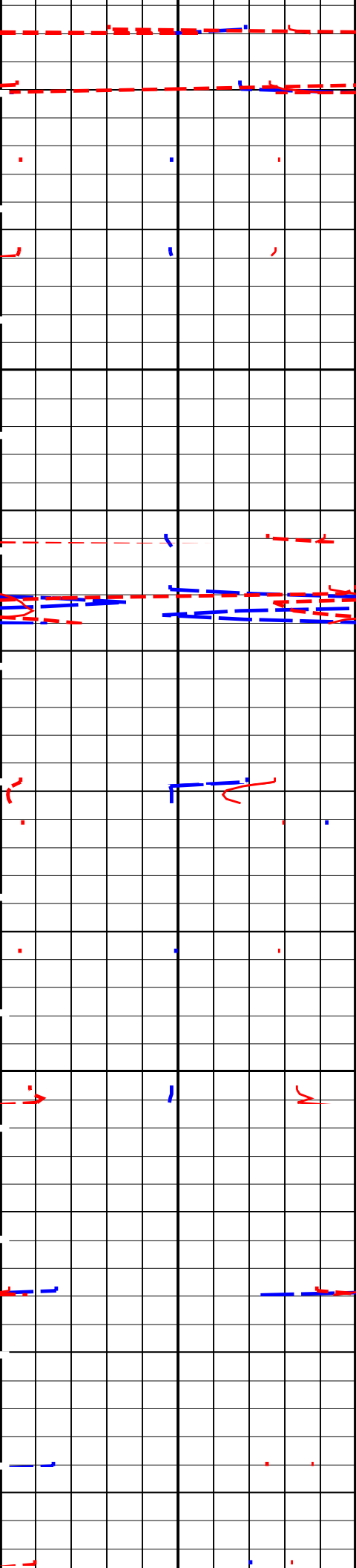




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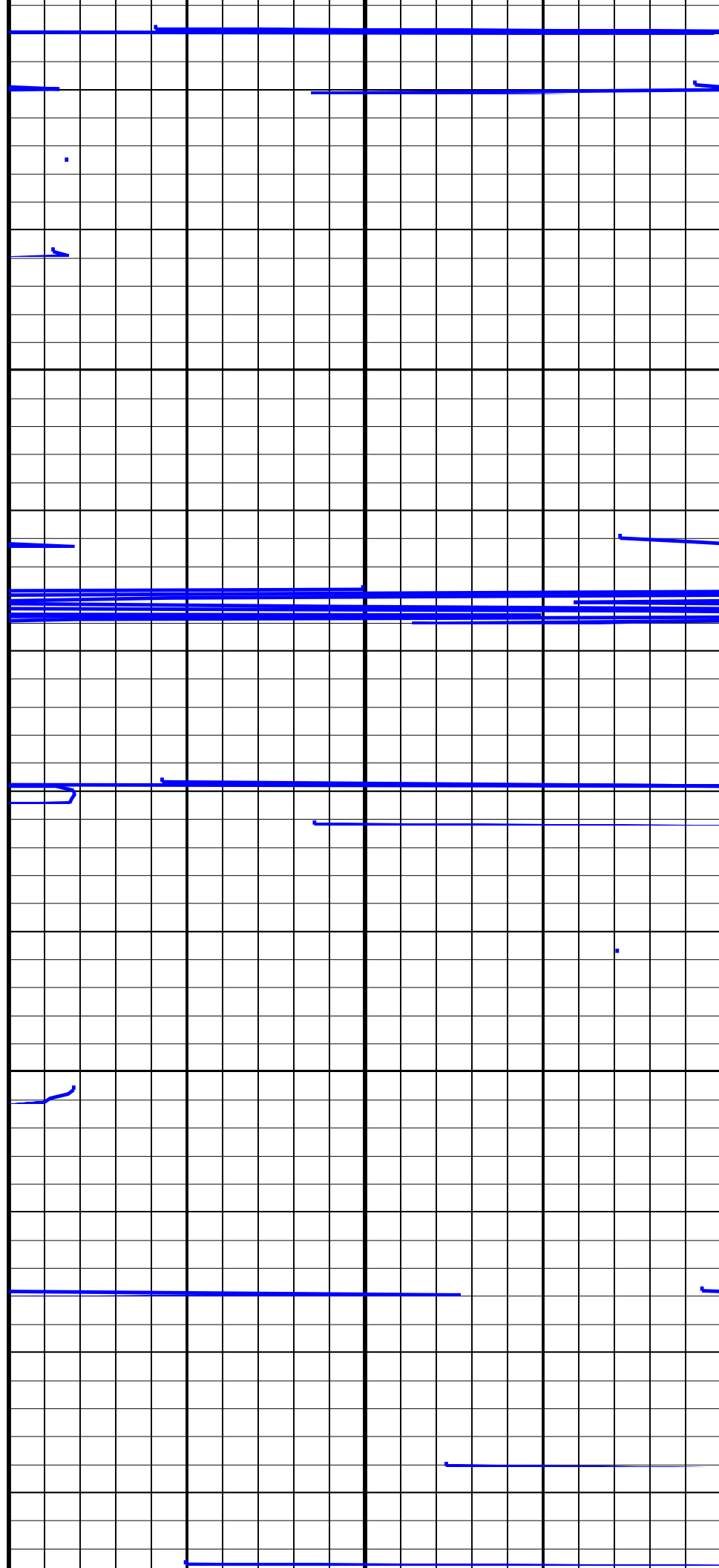
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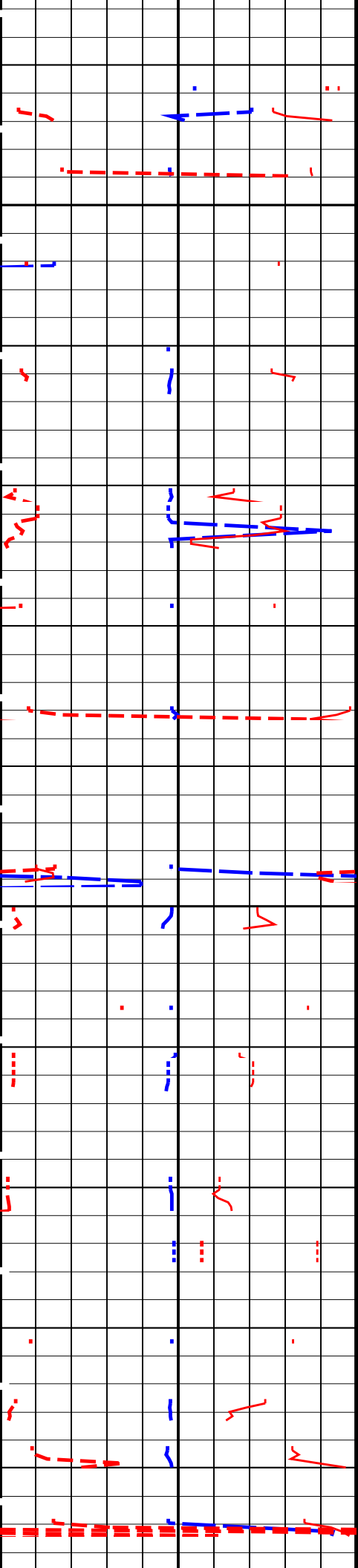




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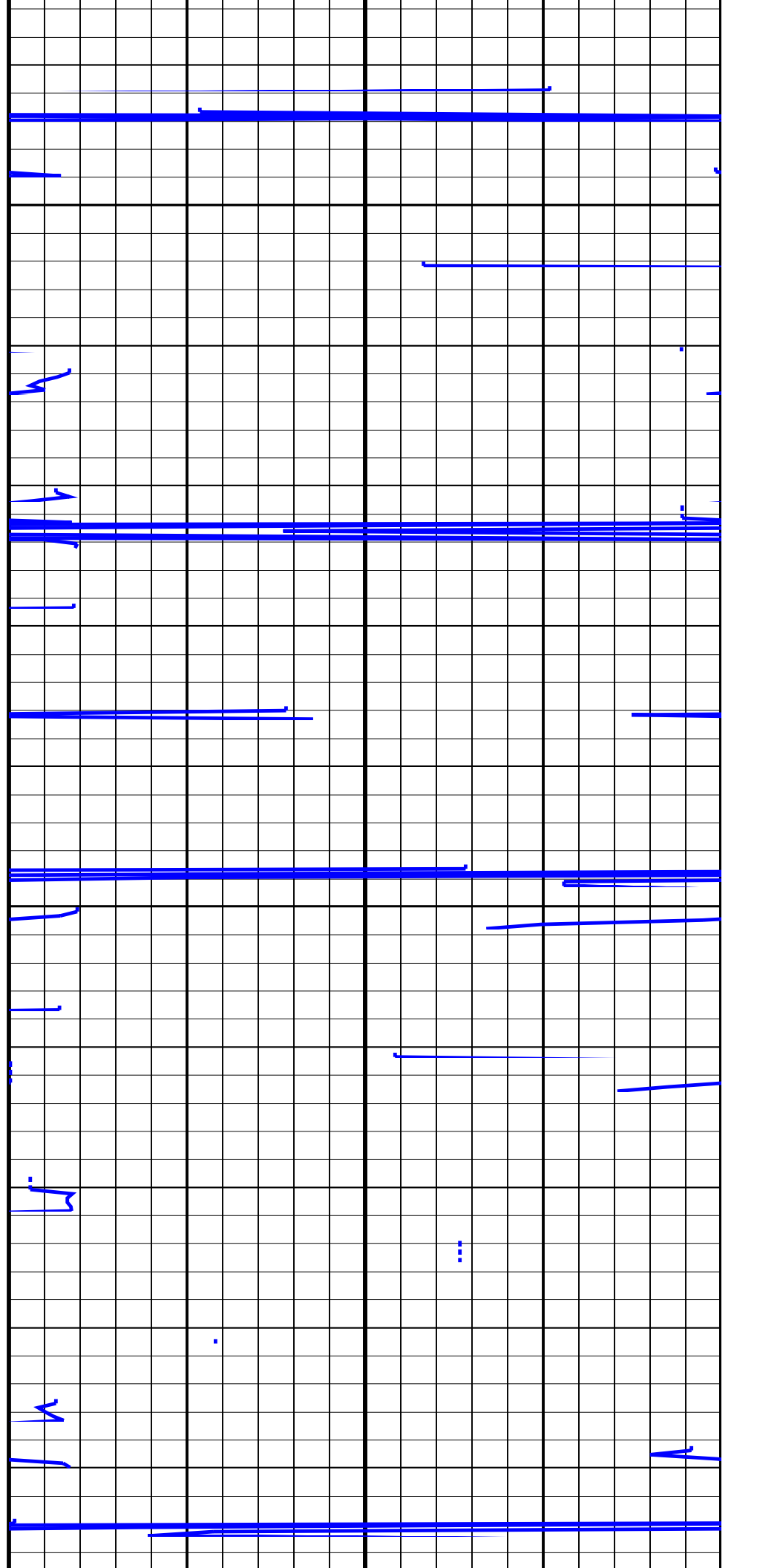
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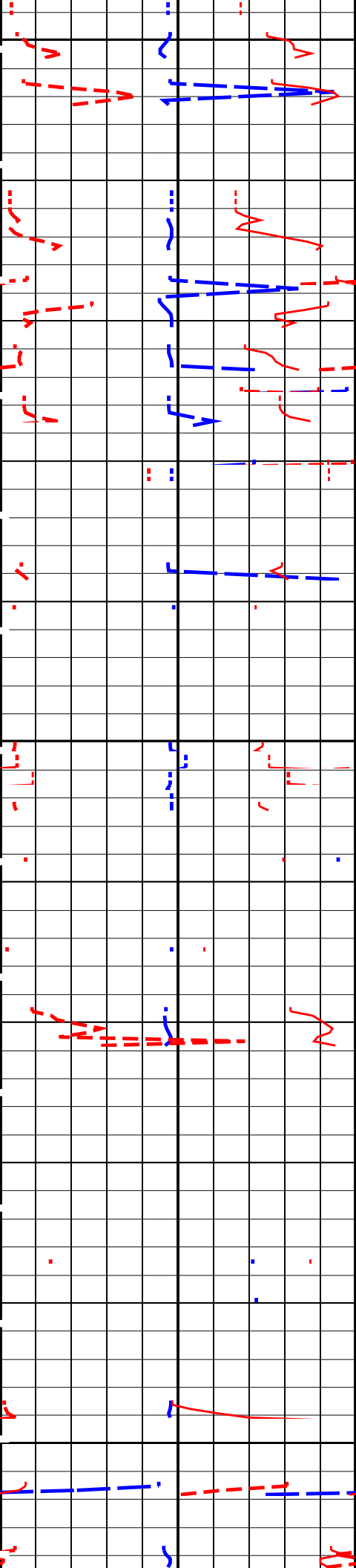




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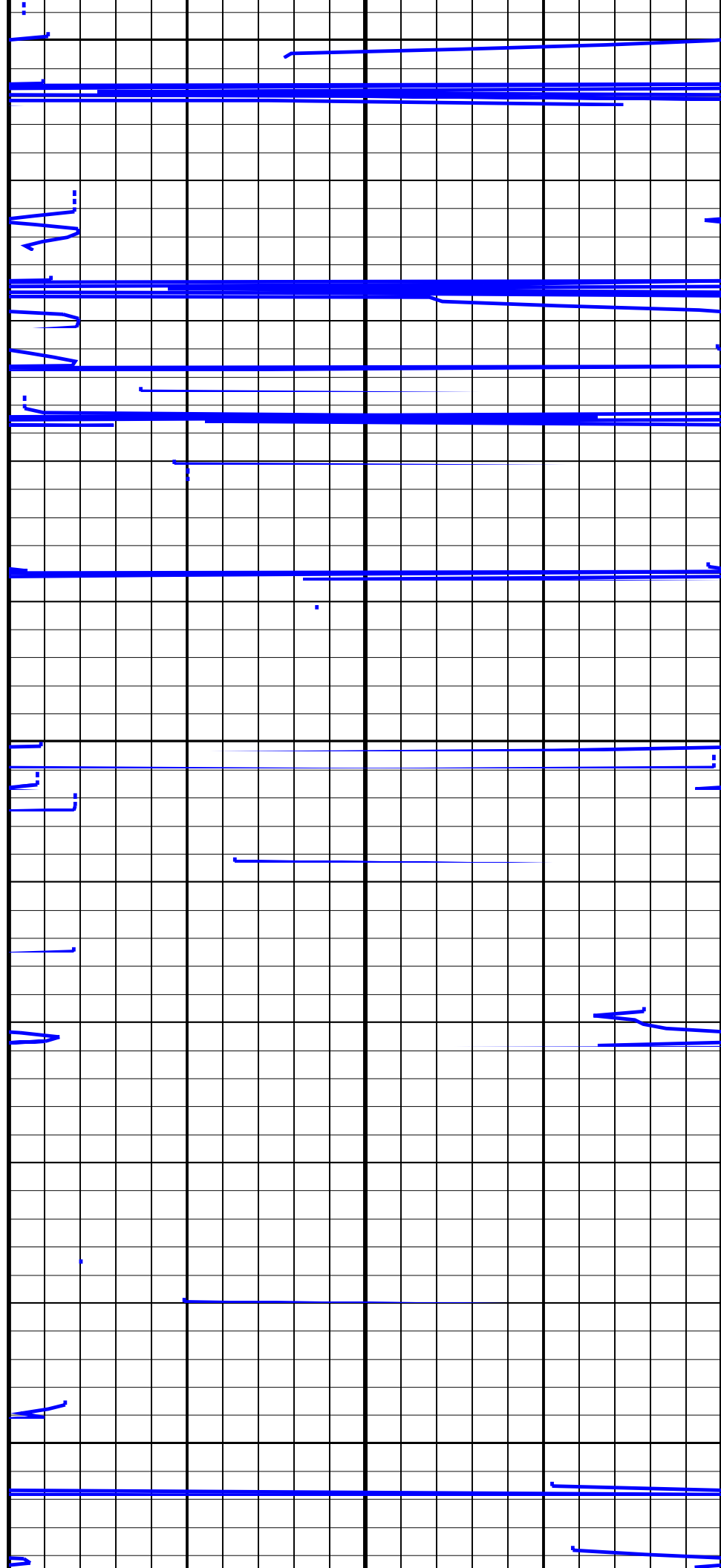


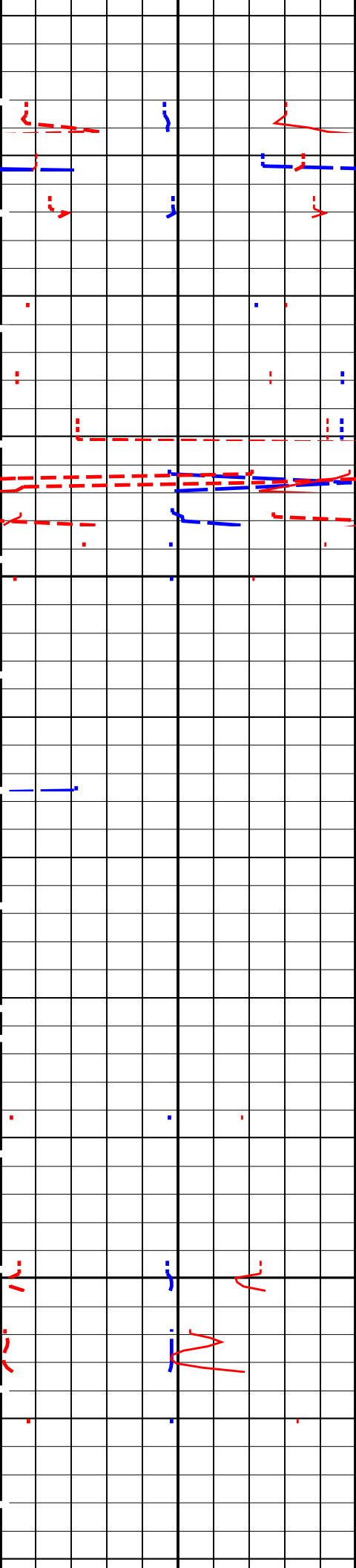


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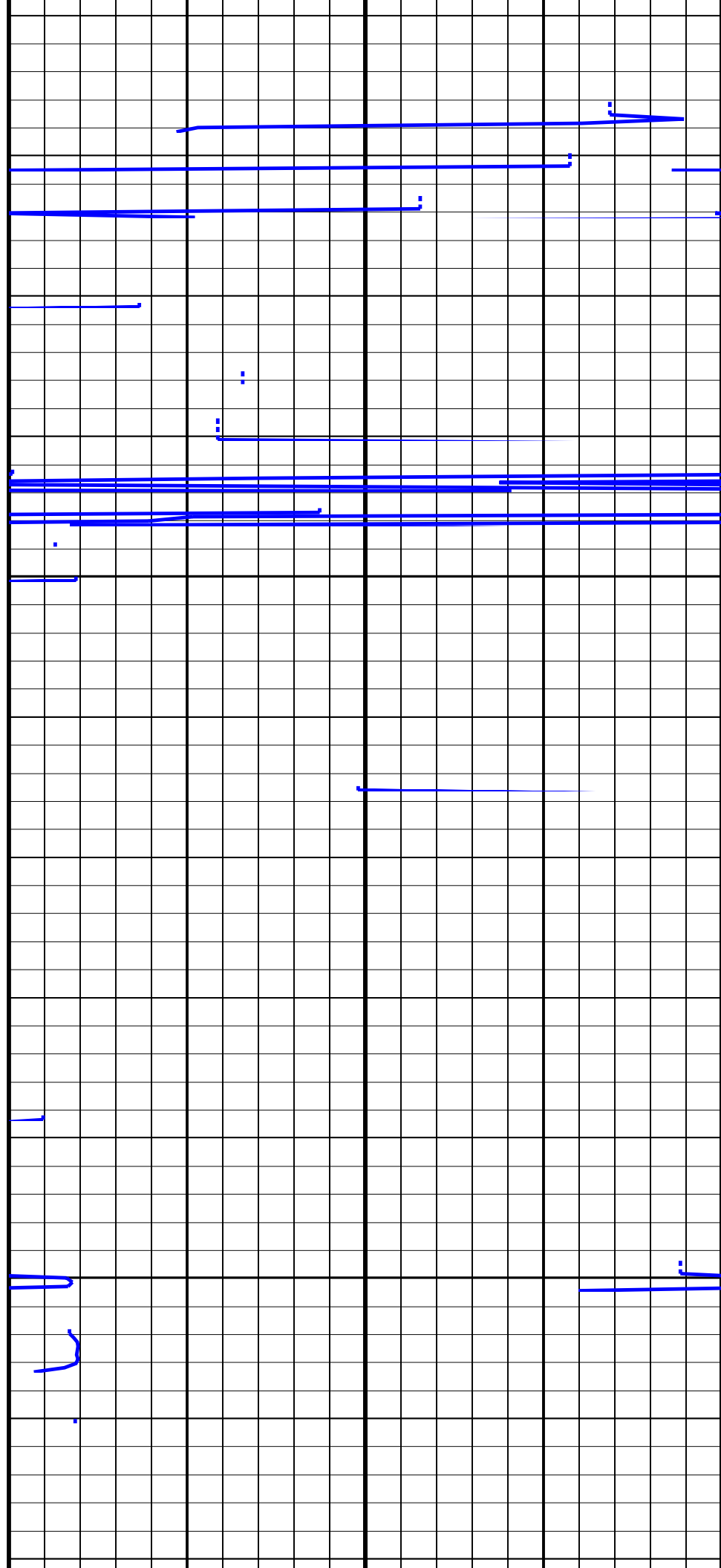
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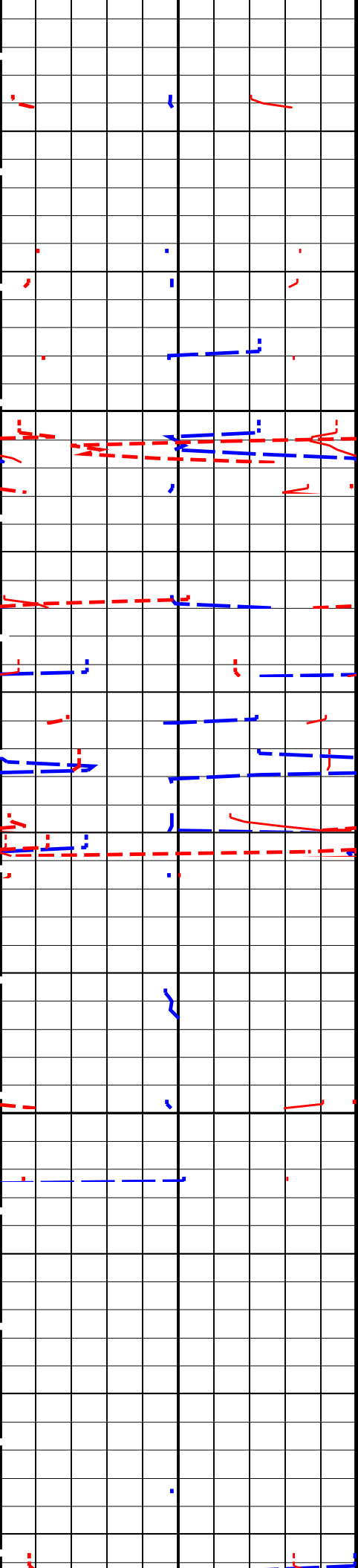




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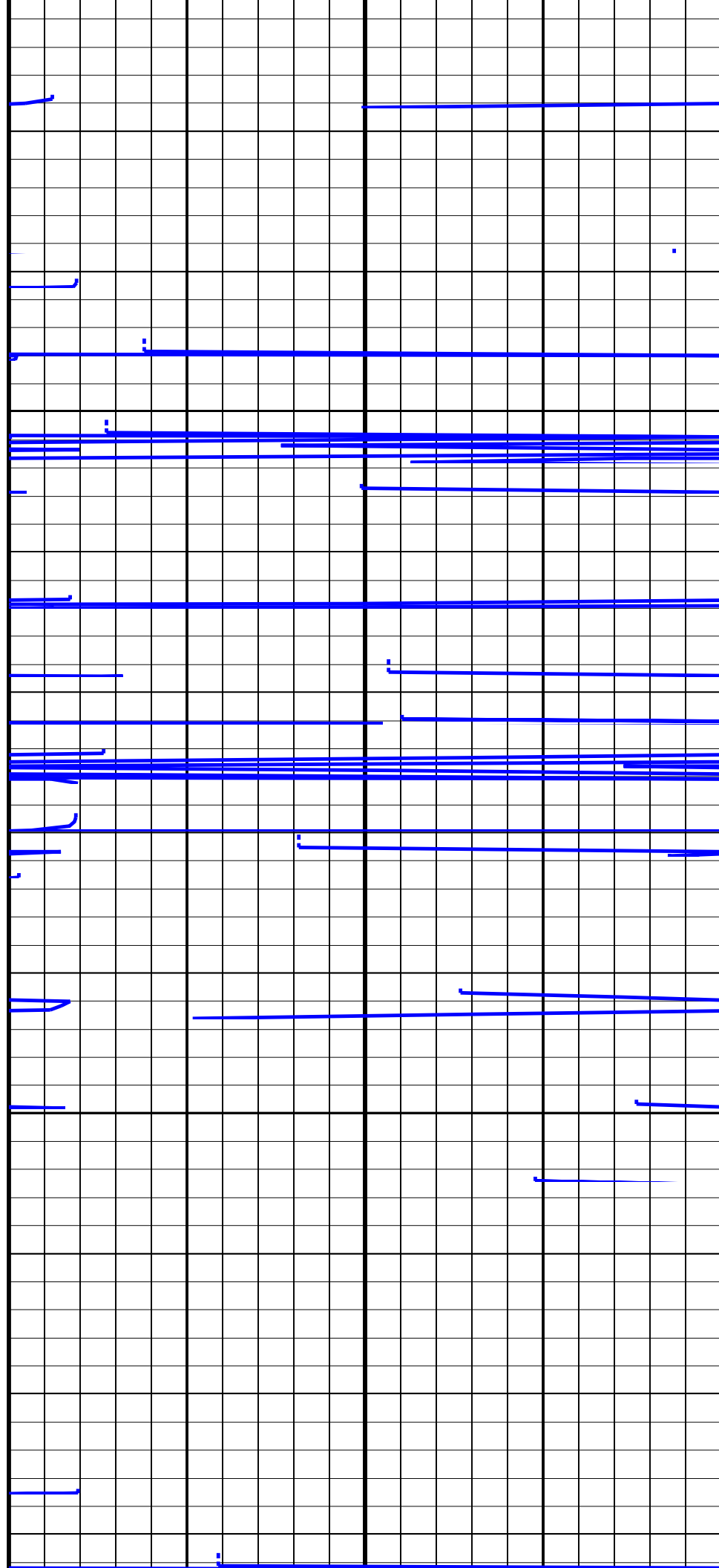
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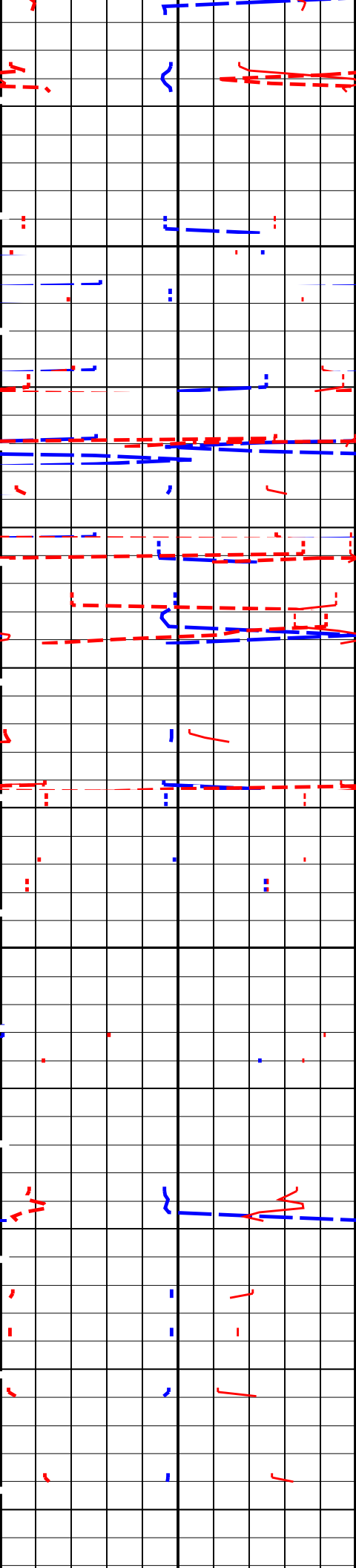




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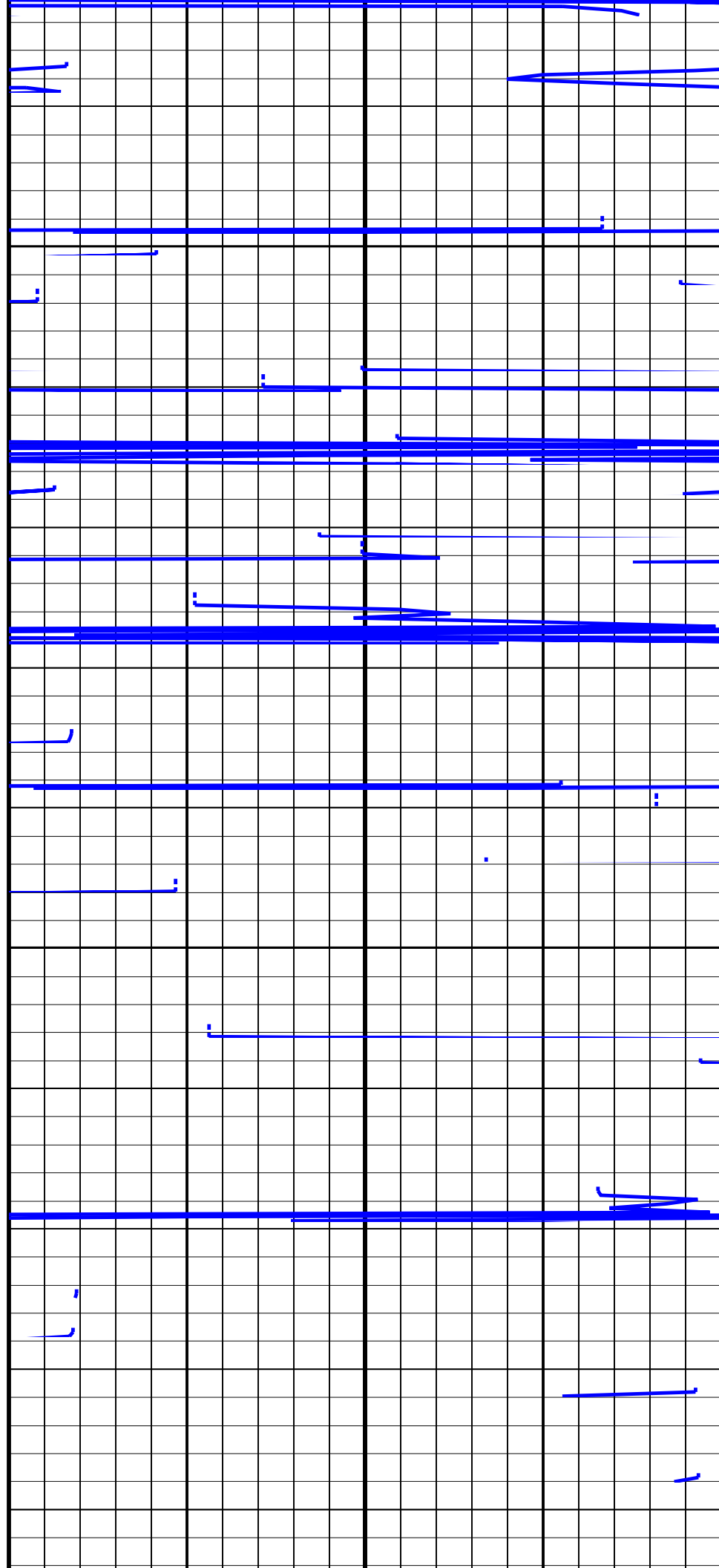
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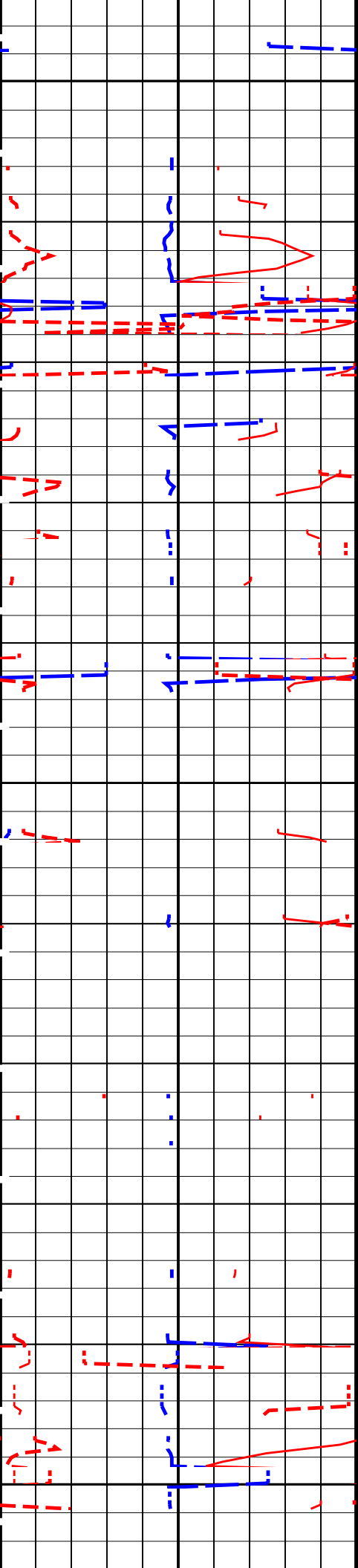




1400

1425

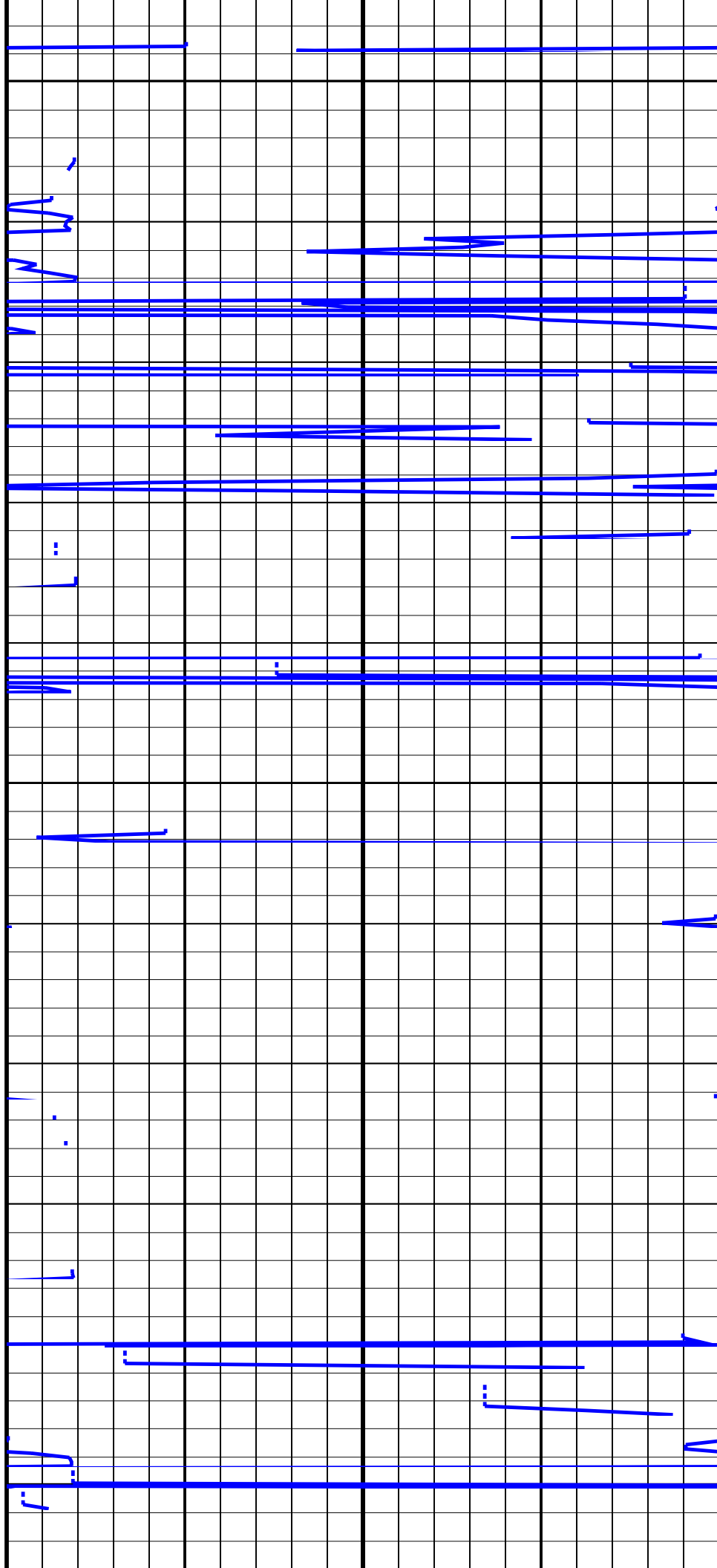


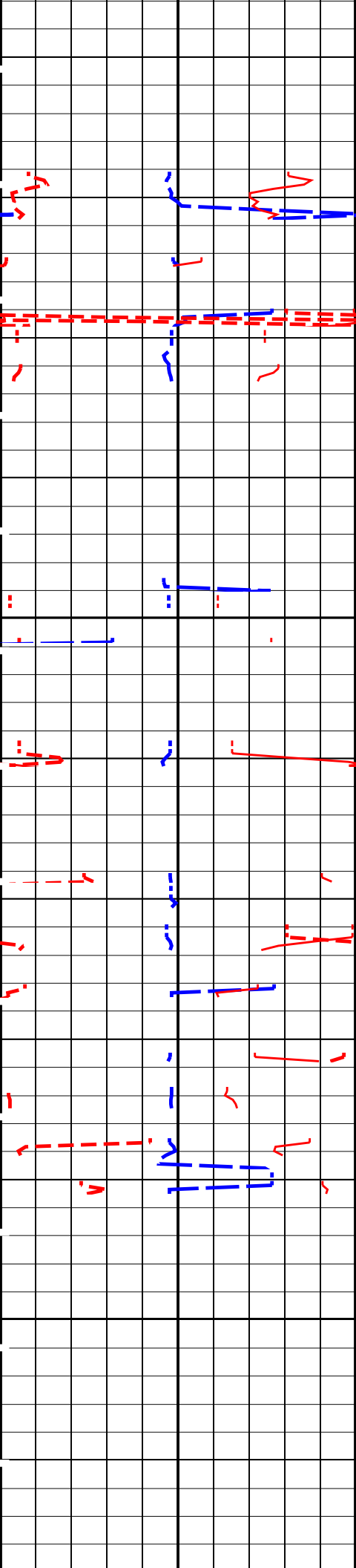


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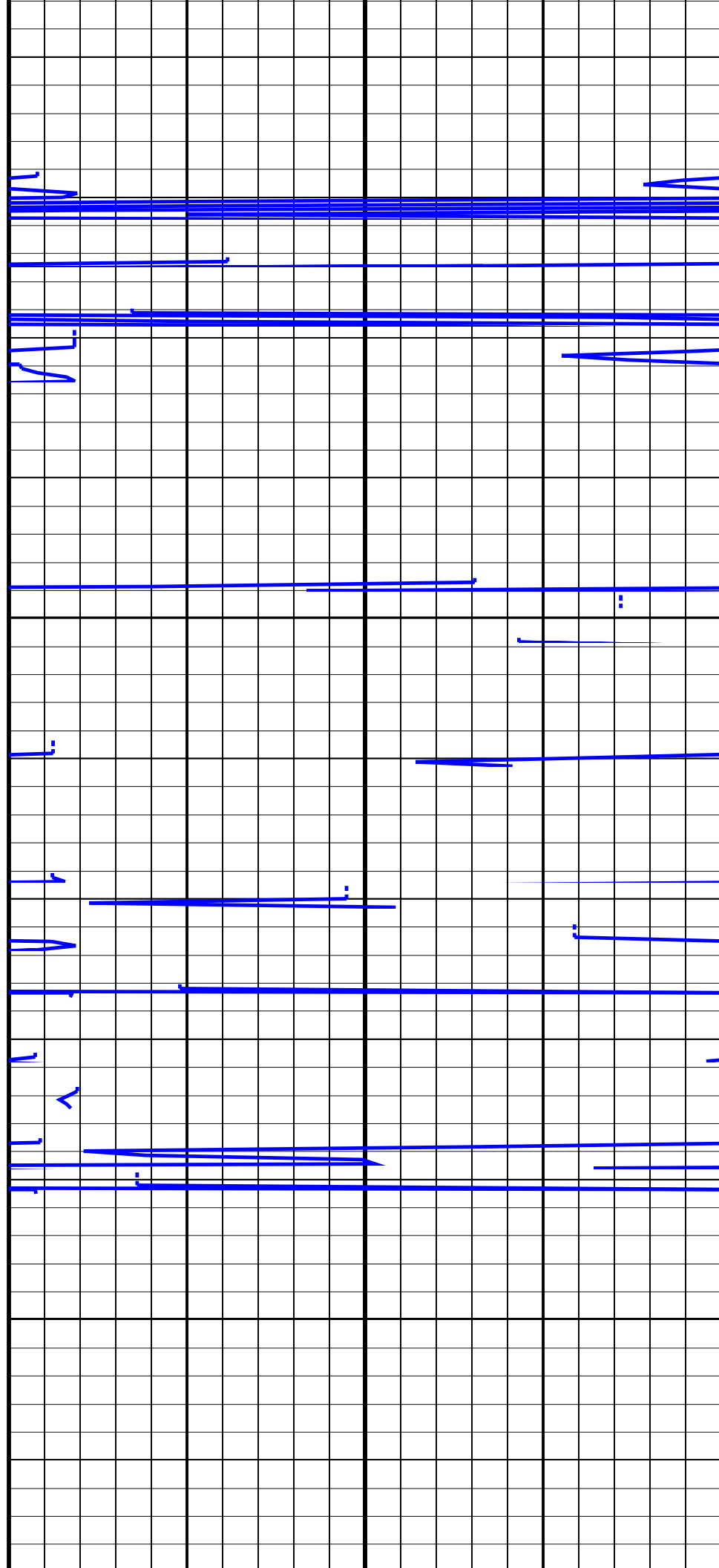
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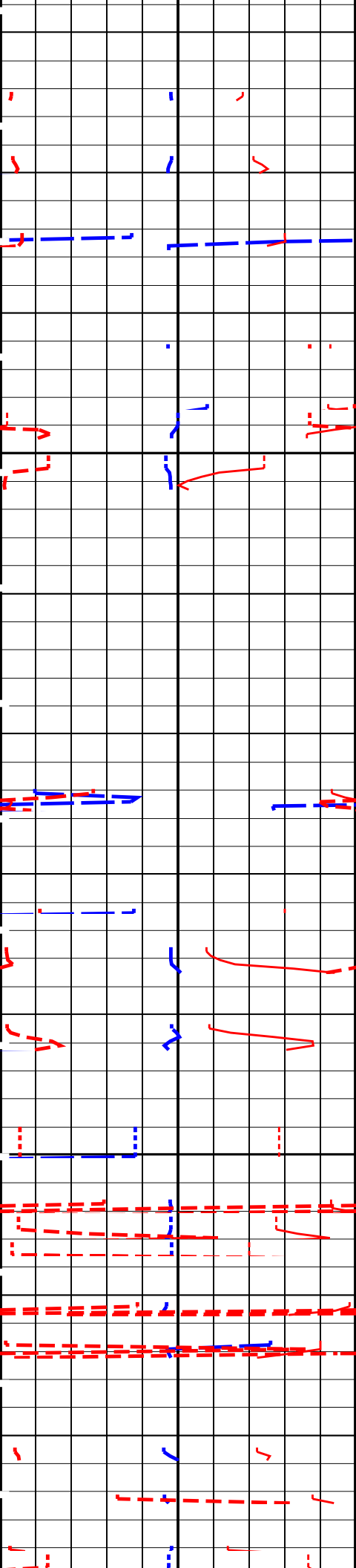




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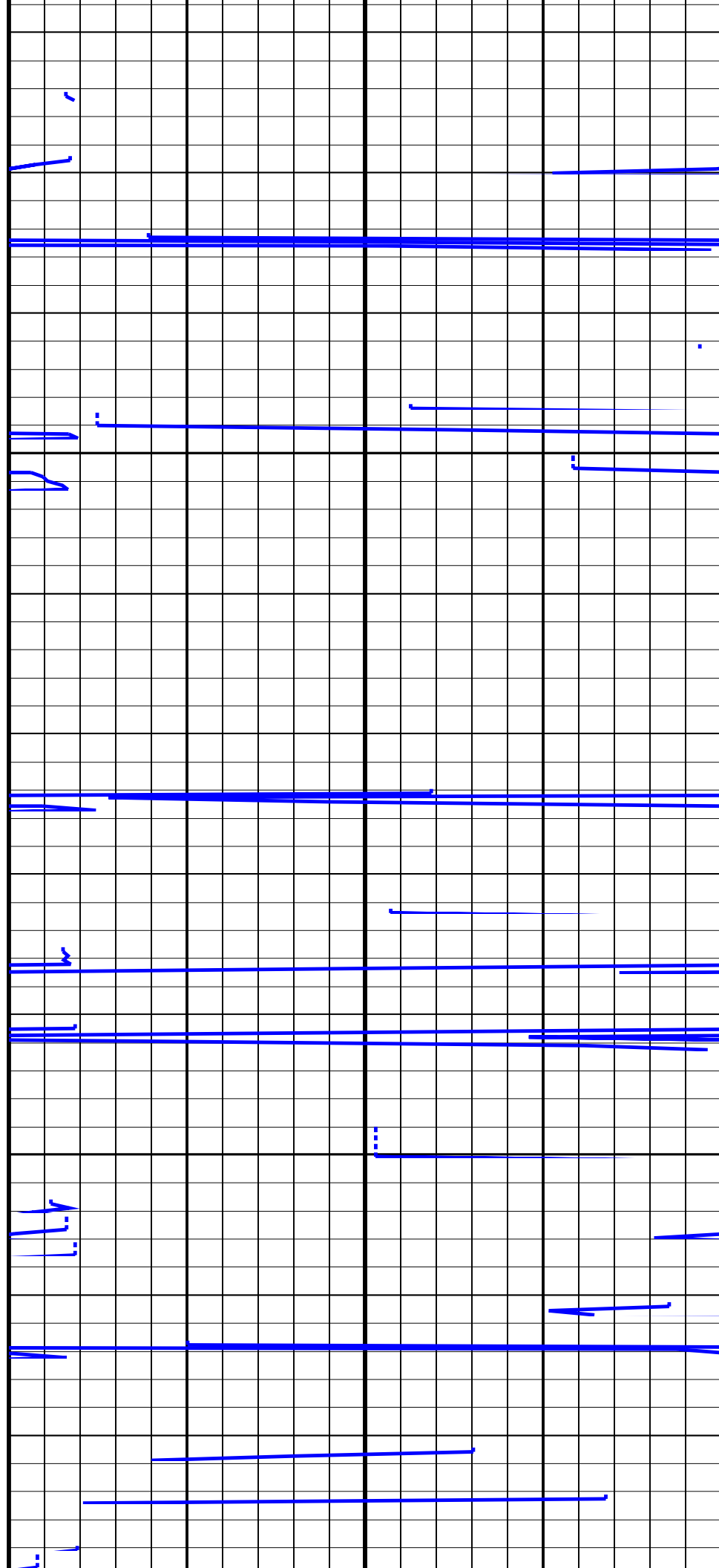
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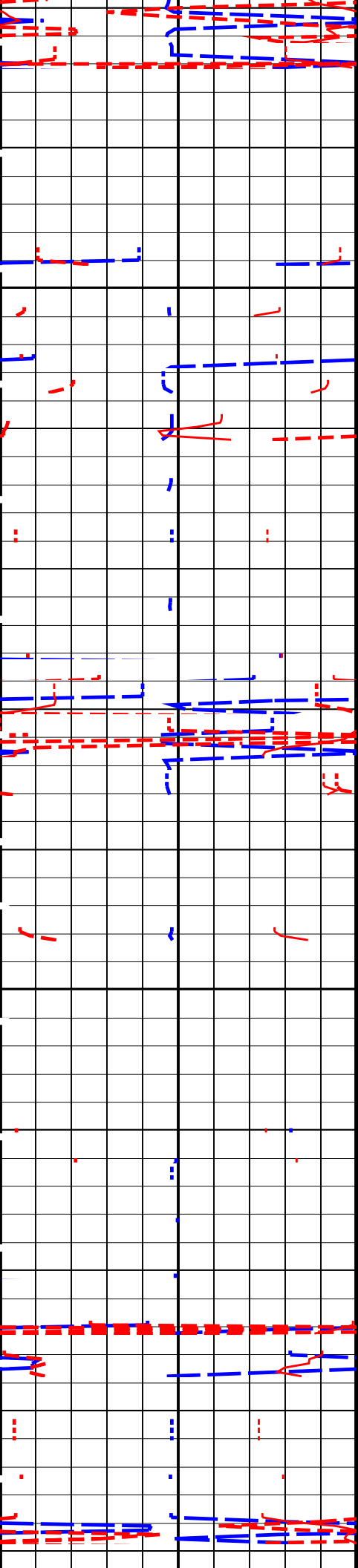




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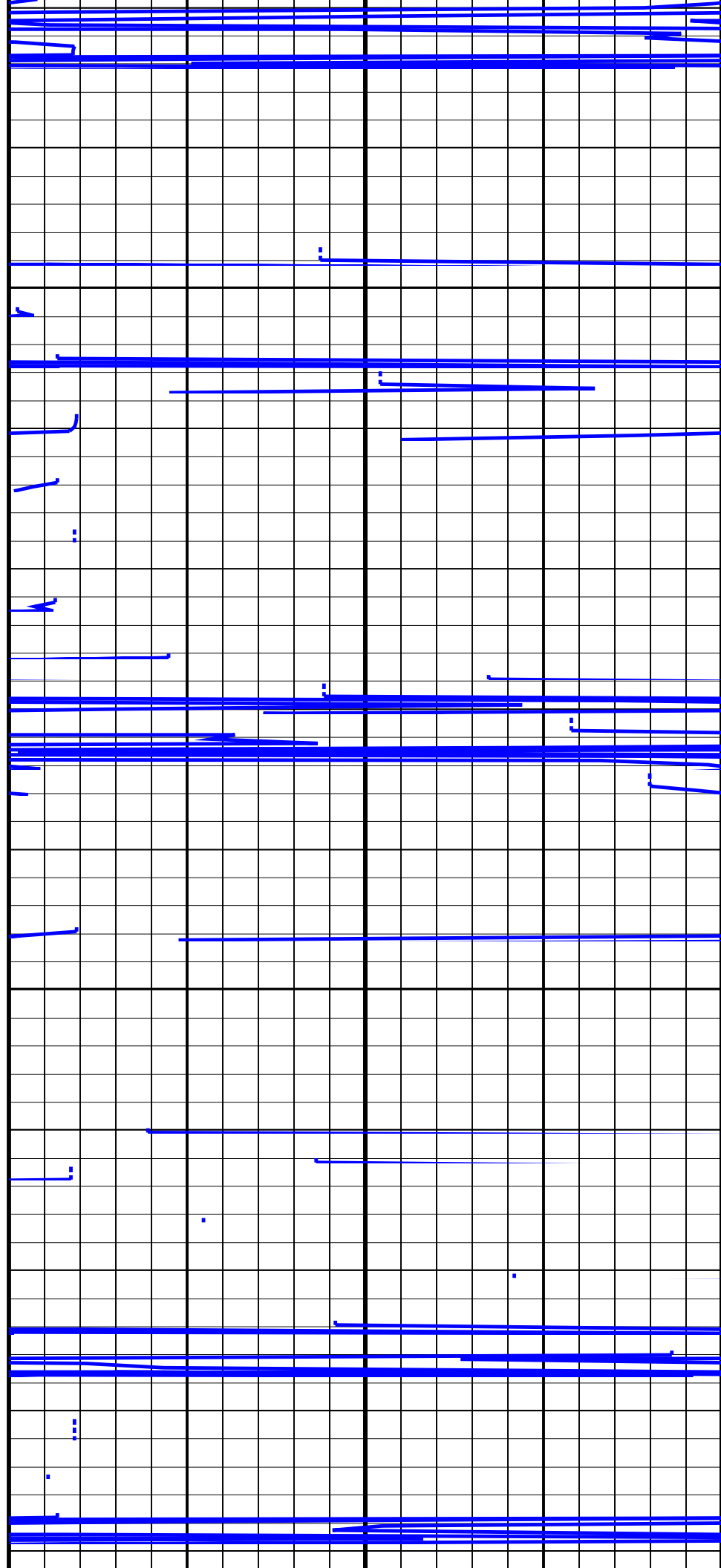
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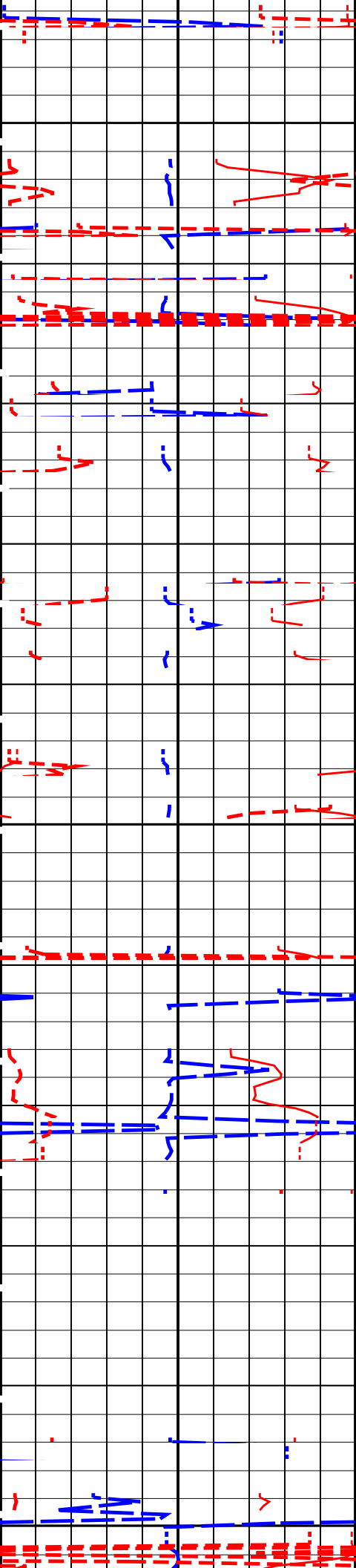




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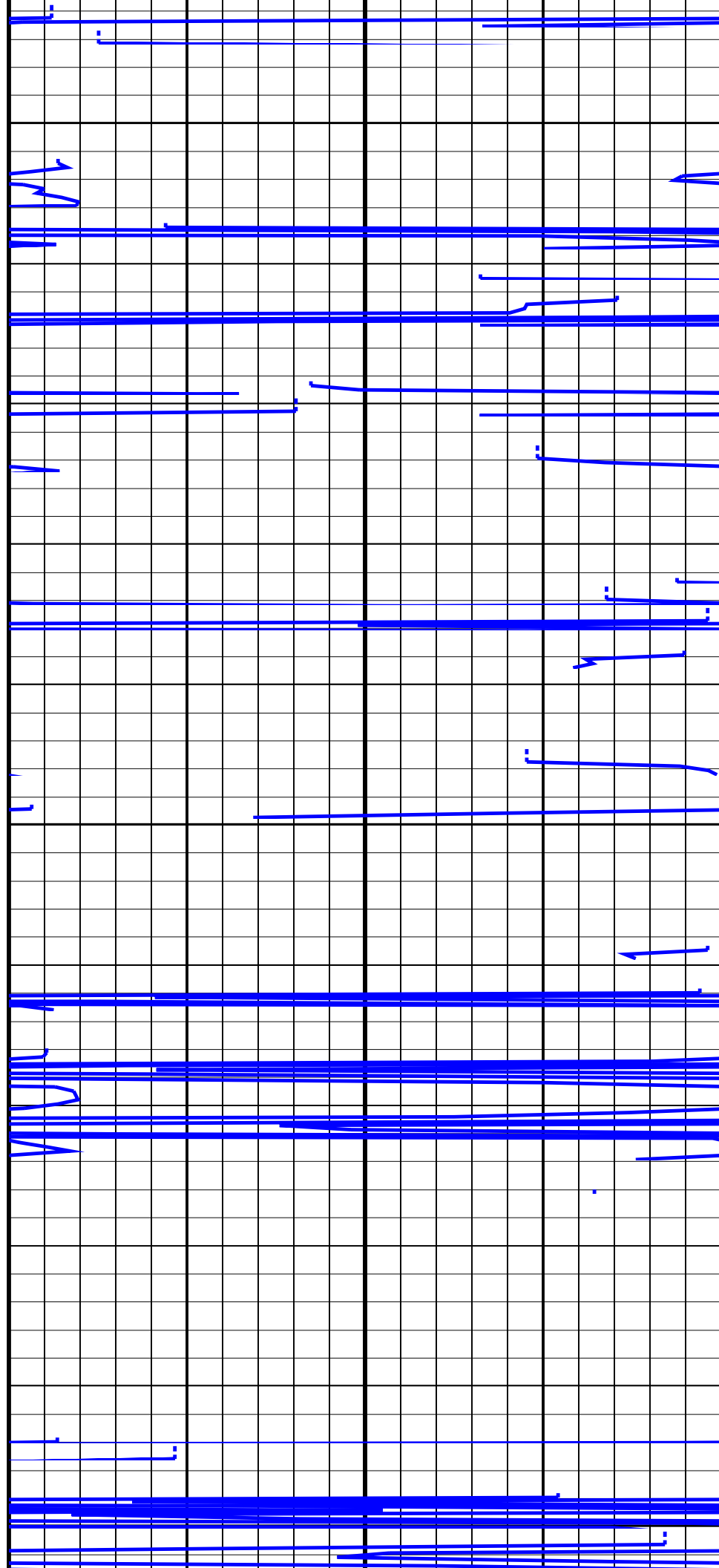


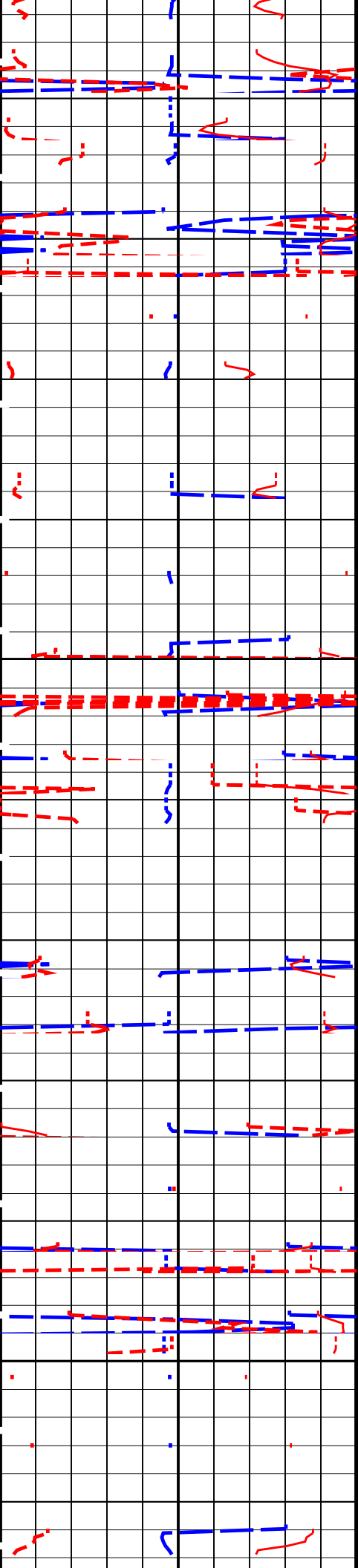


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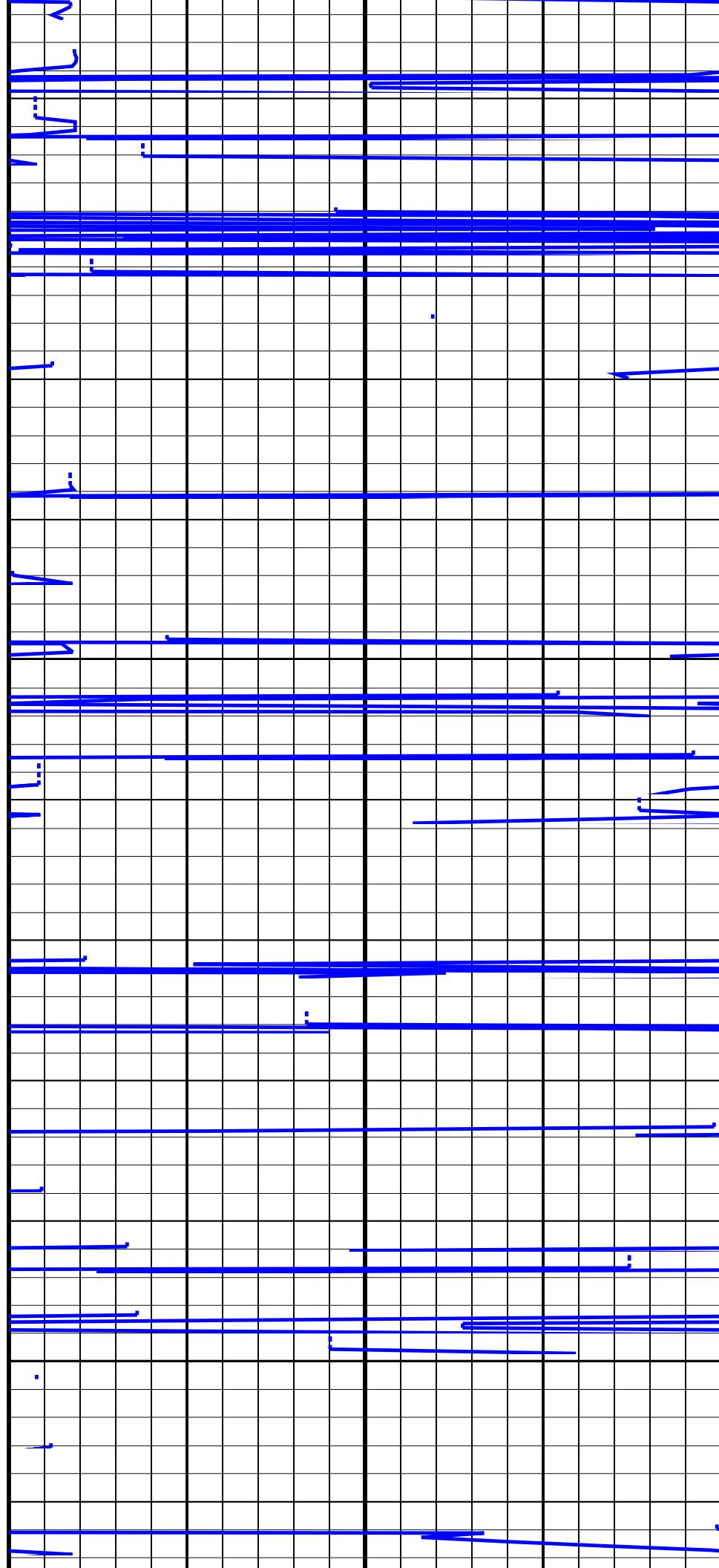
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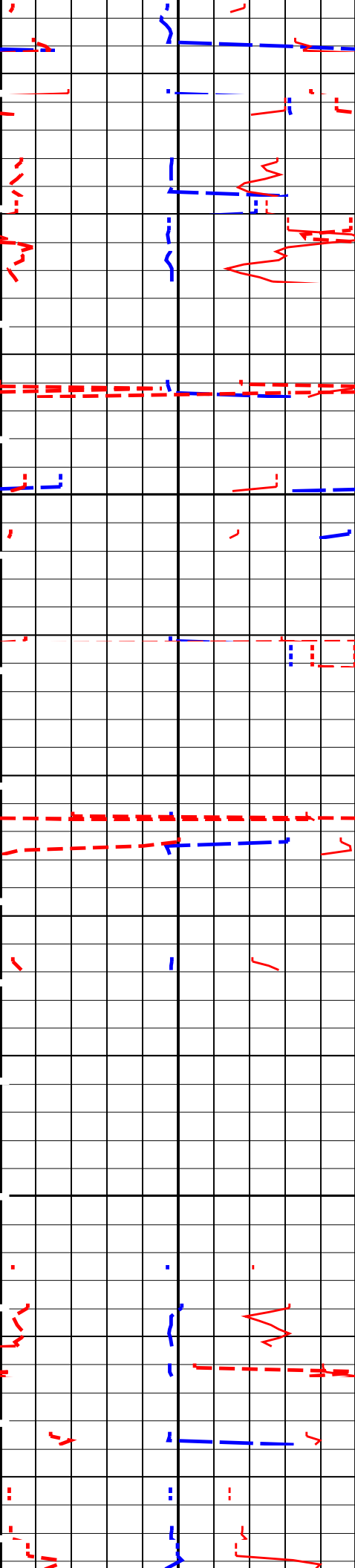




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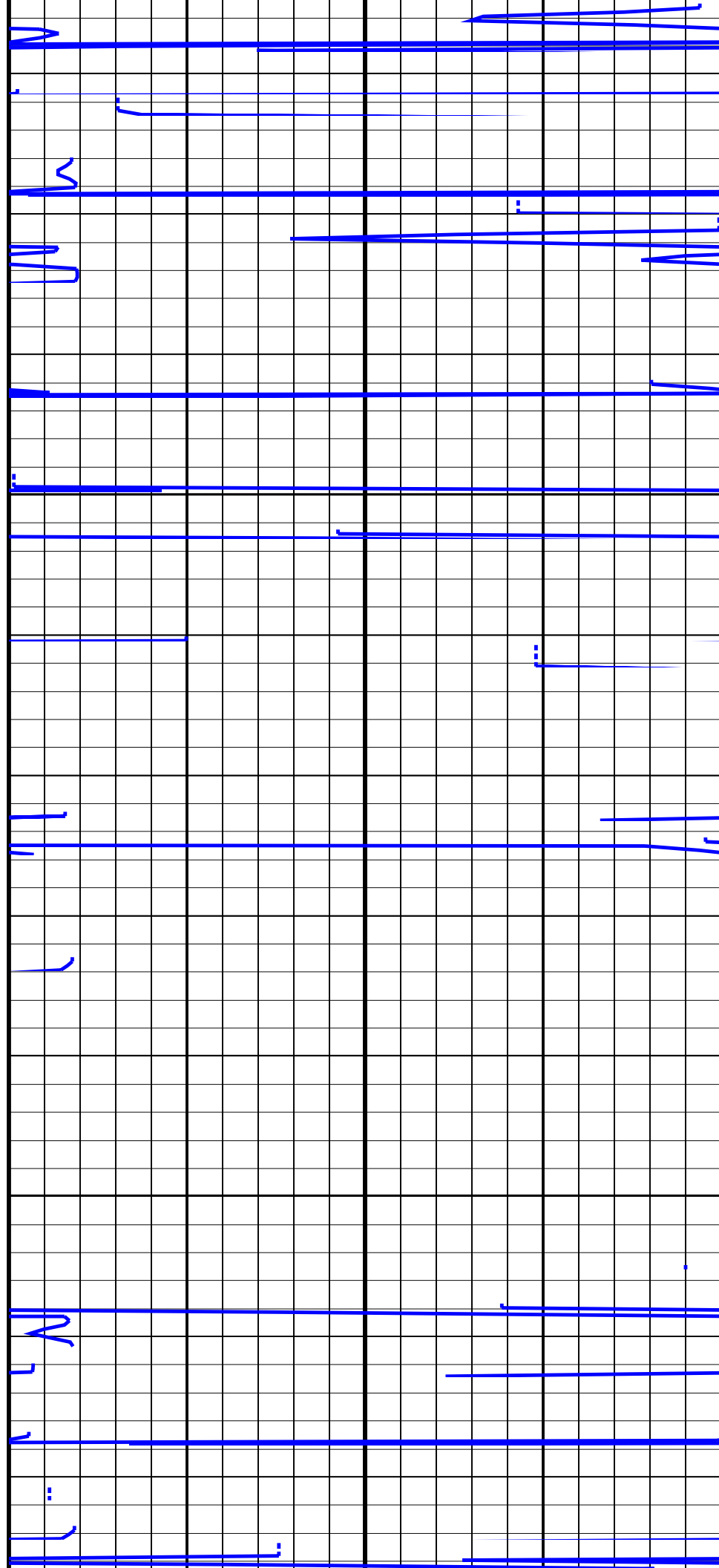
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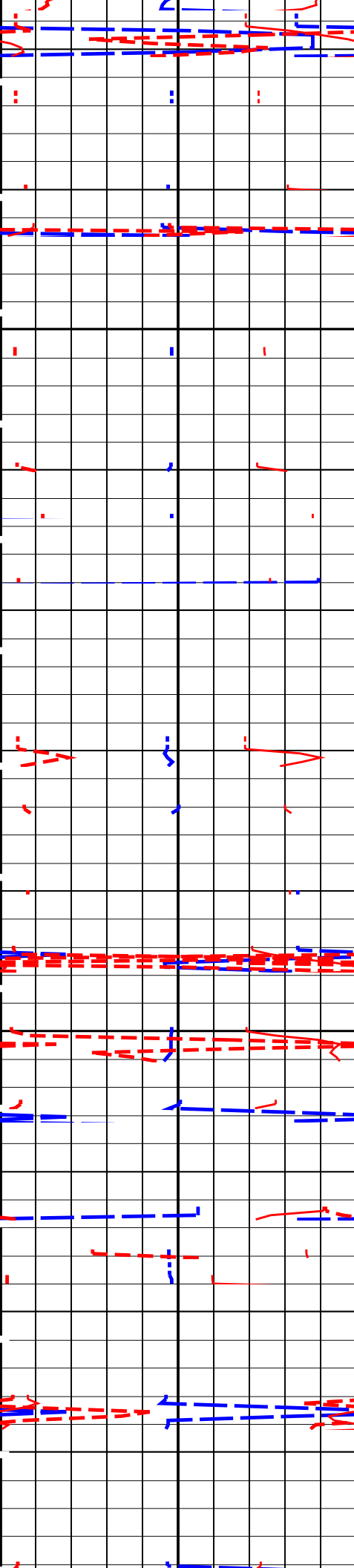




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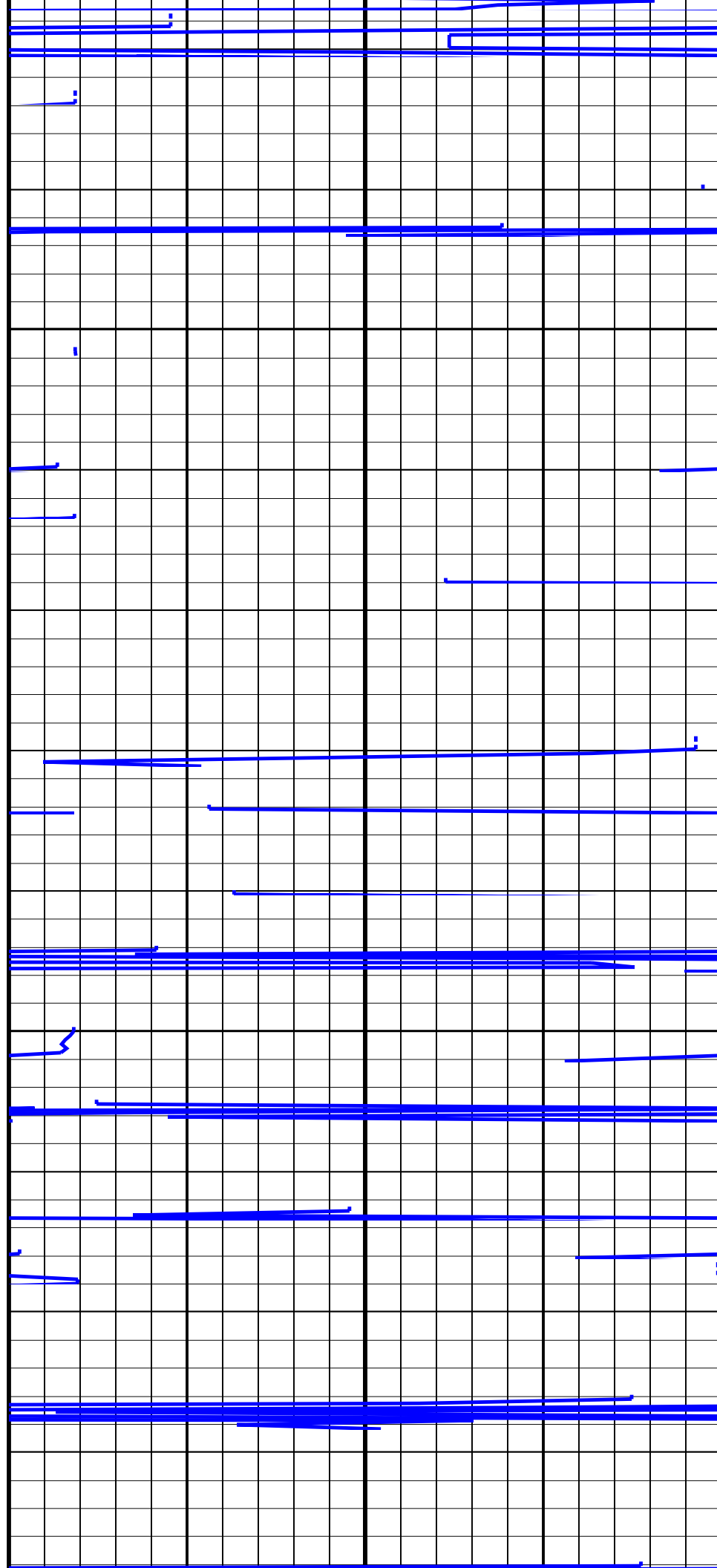
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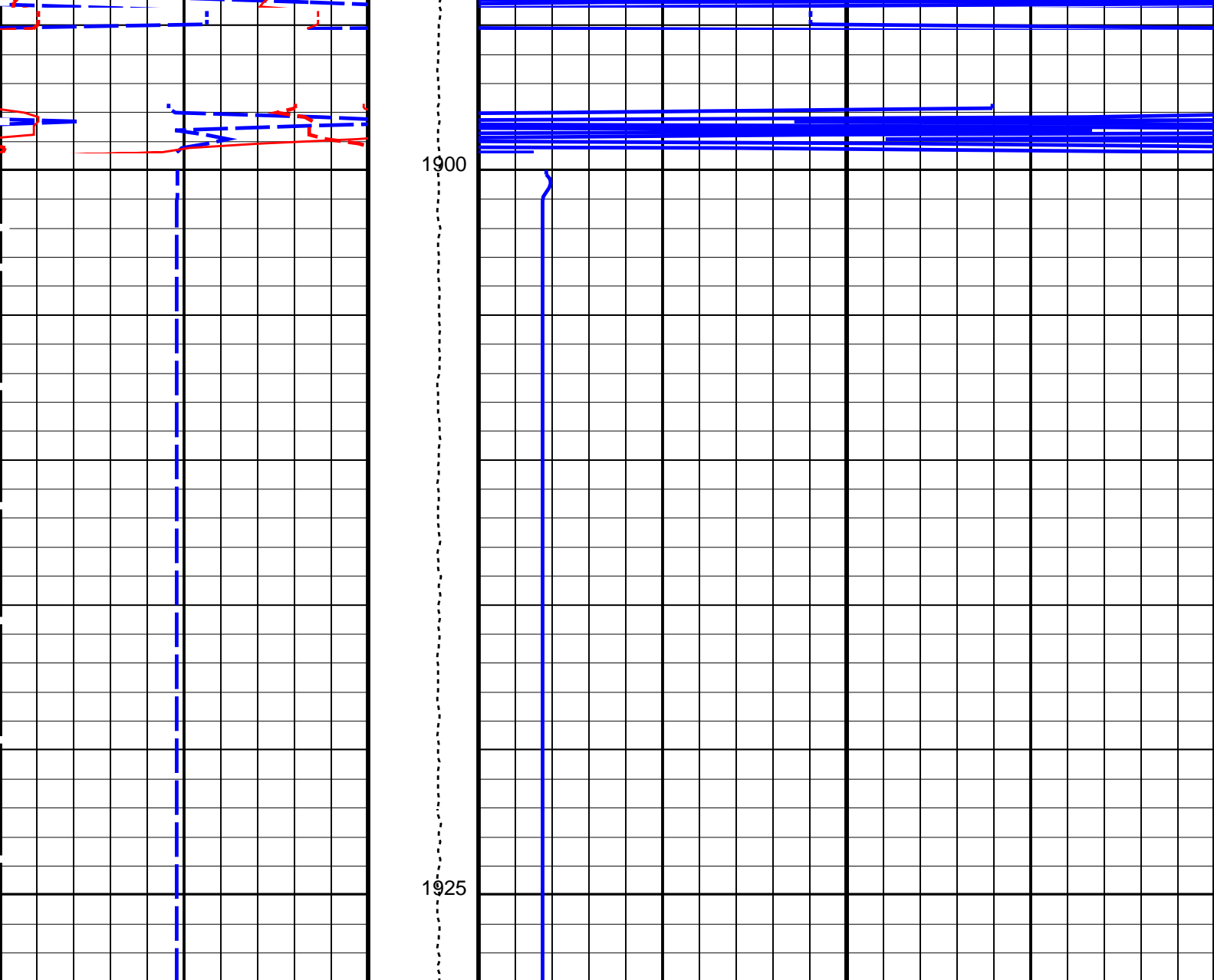




1850

1875





<div>APS Porosity Quality (QSDP)</div> <div>10-----0</div>		<div>Tension (TENS)</div> <div>(LBF)</div> <div>100000</div>	<div>APS Near/Array Corrected Limestone Porosity (APLC)</div> <div>60-----0</div> <div>(PU)</div>	
<div>APS Formation Capture Cross-Section (SIGF)</div> <div>0-----50</div> <div>(CU)</div>				
<div>APS Total Correction in APLC (PHICOR_APLC)</div> <div>-10-----10</div> <div>(PU)</div>				
<div>APS Quality of Formation Capture Cross-Section (QSGF)</div> <div>10-----0</div> <div>(-----)</div>				

PIP SUMMARY

☒ Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
UBI-E: Ultrasonic Borehole Imager – E		
	UBI Tool Working Mode for FPM	UBI3_SW250_180_1
	UBI Tool Working Mode for Measurement	UBI3_SW250_180_1
	Vertical Resolution	IN: 0.4
	Default Fluid Velocity	206 US/F

HRLT-B: High Resolution Laterolog Array – B		Default Fluid Velocity	200	CC/H
BHS	Borehole Status		OPEN	
BHT	Bottom Hole Temperature (used in calculations)		212	DEGF
GCSE	Generalized Caliper Selection		BS	
GDEV	Average Angular Deviation of Borehole from Normal		0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN	9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
SHT	Surface Hole Temperature		68	DEGF
APS-C: Accelerator–Porosity Tool				
	APS Software Version		0	
AASD	APS Thermal and Array Detectors High Voltage Setting		1964.28	V
ADSO	APS Array Detectors Data Source Switch		Both	
AFSD	APS Far Detector High Voltage Setting		2064.72	V
AHCS	APS Holesize Correction Source		BS	
AHSS	APS Holesize Correction Switch		ON	
AMTY	APS Environmental Corrections Mud Type	WaterBase	Barite	
ANSD	APS Near Detector High Voltage Setting		1744.47	V
ASOS	APS Standoff Correction Switch		ON	
ATSS	APS Temperature–Pressure–Salinity Correction Switch		ON	
BHFL_APS	APS TNPH Borehole Fluid Type		WATER	
BHS	Borehole Status		OPEN	
BHT	Bottom Hole Temperature (used in calculations)		212	DEGF
BSCO_APS	APS TNPH Borehole Salinity Correction Option		YES	
DPPM	Density Porosity Processing Mode		STAN	
DSCO_APS	APS TNPH Density Source Correction Option	COMPUTED		
FSAL	Formation Salinity		–50000	PPM
FSCO_APS	APS TNPH Formation Salinity Correction Option		NO	
GCSE	Generalized Caliper Selection		BS	
GDEV	Average Angular Deviation of Borehole from Normal		0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN	9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
HSCO_APS	APS TNPH Hole Size Correction Option		YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
MCCO_APS	APS TNPH Mud Cake Correction Option		YES	
MCOR_APS	APS TNPH Mud Correction		NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option		YES	
NARC	APS Near/Array Calibration Ratio		1.11997	
NFRC	APS Near/Far Calibration Ratio		0.999643	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option		YES	
SHT	Surface Hole Temperature		68	DEGF
TNCO_APS	APS TNPH Computation Option		NO	
EDTC-B: Enhanced DTS Cartridge				
BHS	Borehole Status		OPEN	
BHT	Bottom Hole Temperature (used in calculations)		212	DEGF
DPPM	Density Porosity Processing Mode		STAN	
FSAL	Formation Salinity		–50000	PPM
GCSE	Generalized Caliper Selection		BS	
GDEV	Average Angular Deviation of Borehole from Normal		0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN	9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
SHT	Surface Hole Temperature		68	DEGF
System and Miscellaneous				
BS	Bit Size		9.875	IN
BSAL	Borehole Salinity		38000.00	PPM
CSIZ	Current Casing Size		13.375	IN
CWEI	Casing Weight		54.50	LB/F
DO	Depth Offset for Playback		0.0	M
FLEV	Fluid Level		–50000.00	M
MST	Mud Sample Temperature		23.00	DEGC
PP	Playback Processing		NORMAL	
RMFS	Resistivity of Mud Filtrate Sample		–50000.0000	OHMM
TD	Total Depth		–50000	FT
Format: APSLiquidPorosity		Vertical Scale: 1:200		Graphics File Created: 30–May–2023 14:40
OP System Version: 19C0–187				
UBI-E	19C0–187	GPIT-A/B	19C0–187	
DTA-A	19C0–187	HRLT-B	19C0–187	
APS-C	19C0–187	EDTC-B	19C0–187	
Input DLIS Files				
DEFAULT	UBI_HRLA_APS_086LUP	FN:84	PRODUCER	26–May–2023 21:23 1928.0 M 857.7 M
Output DLIS Files				

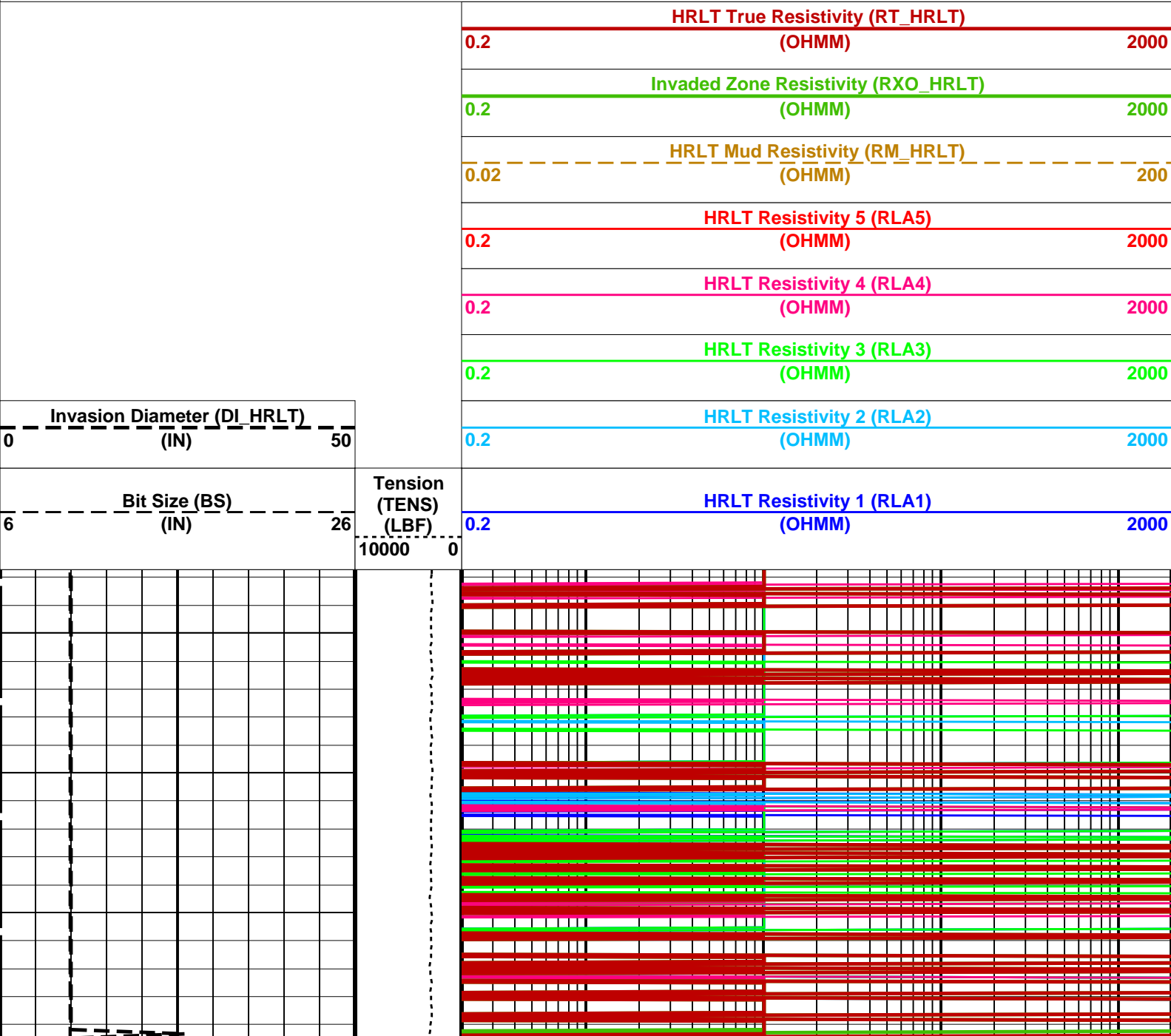
Company: International Ocean Discovery Program

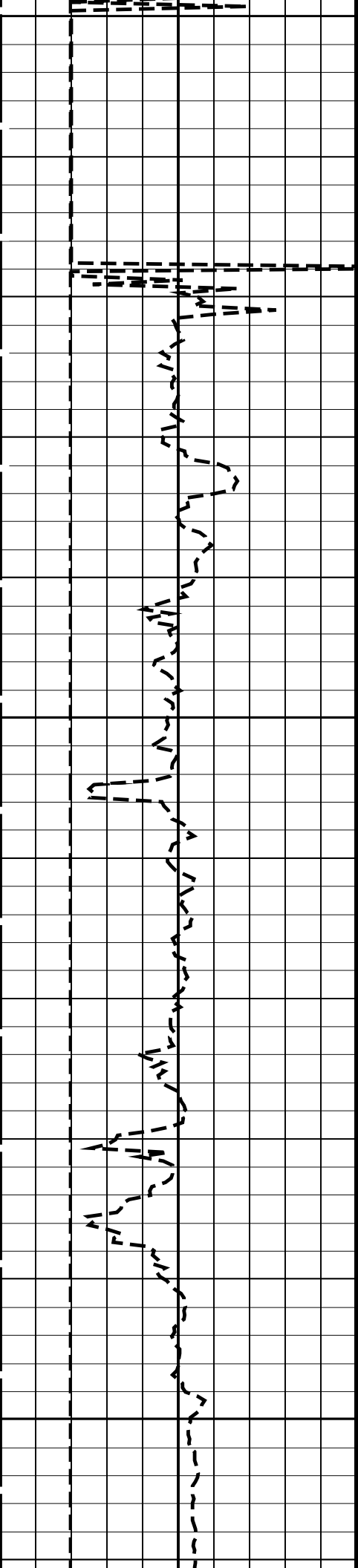
Well: Expedition 399, Site U1601C

Input DLIS Files						
DEFAULT	UBI_HRLA_APS_086LUP	FN:84	PRODUCER	26-May-2023 21:23	1928.0 M	857.7 M
Output DLIS Files						
DEFAULT	UBI_HRLA_APS_111PUP	FN:106	PRODUCER	30-May-2023 14:40	1928.0 M	857.7 M

OP System Version: 19C0-187						
UBI-E	19C0-187		GPIT-A/B	19C0-187		
DTA-A	19C0-187		HRLT-B	19C0-187		
APS-C	19C0-187		EDTC-B	19C0-187		

PIP SUMMARY						
Time Mark Every 60 S						

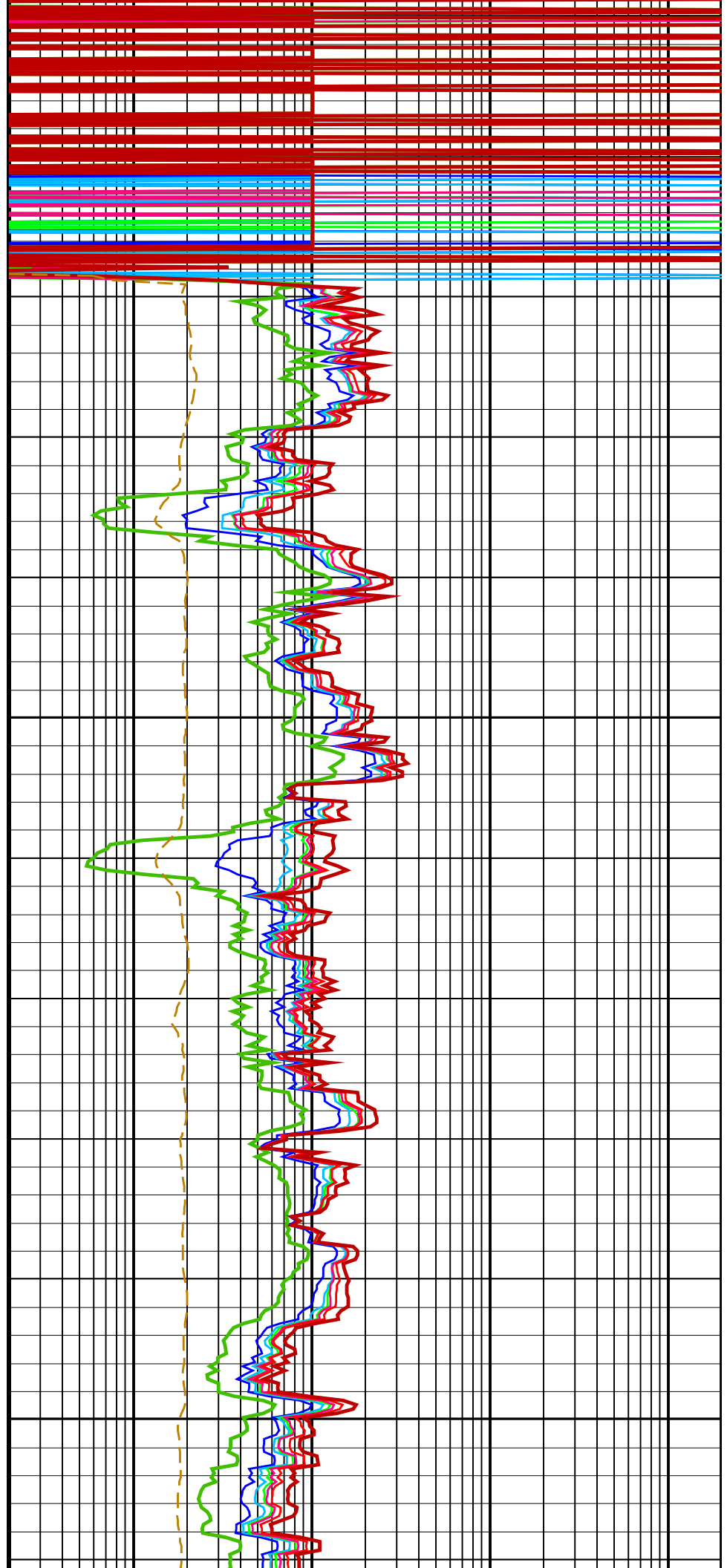


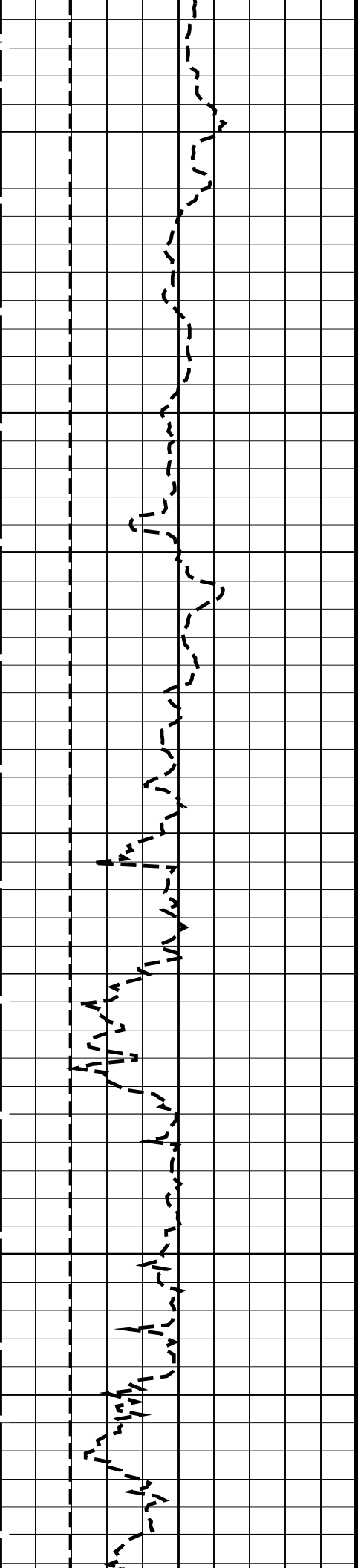


875

900

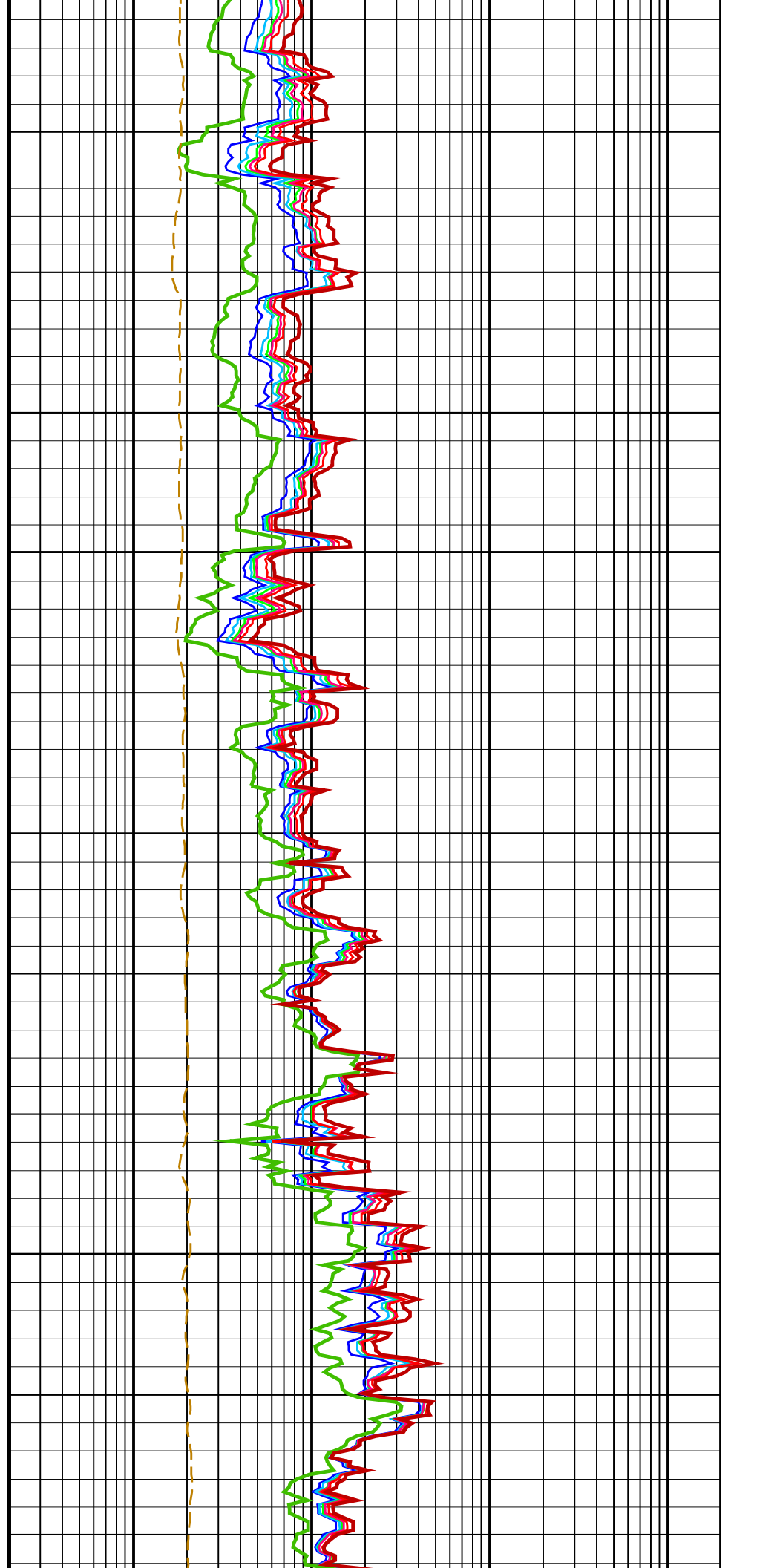
925

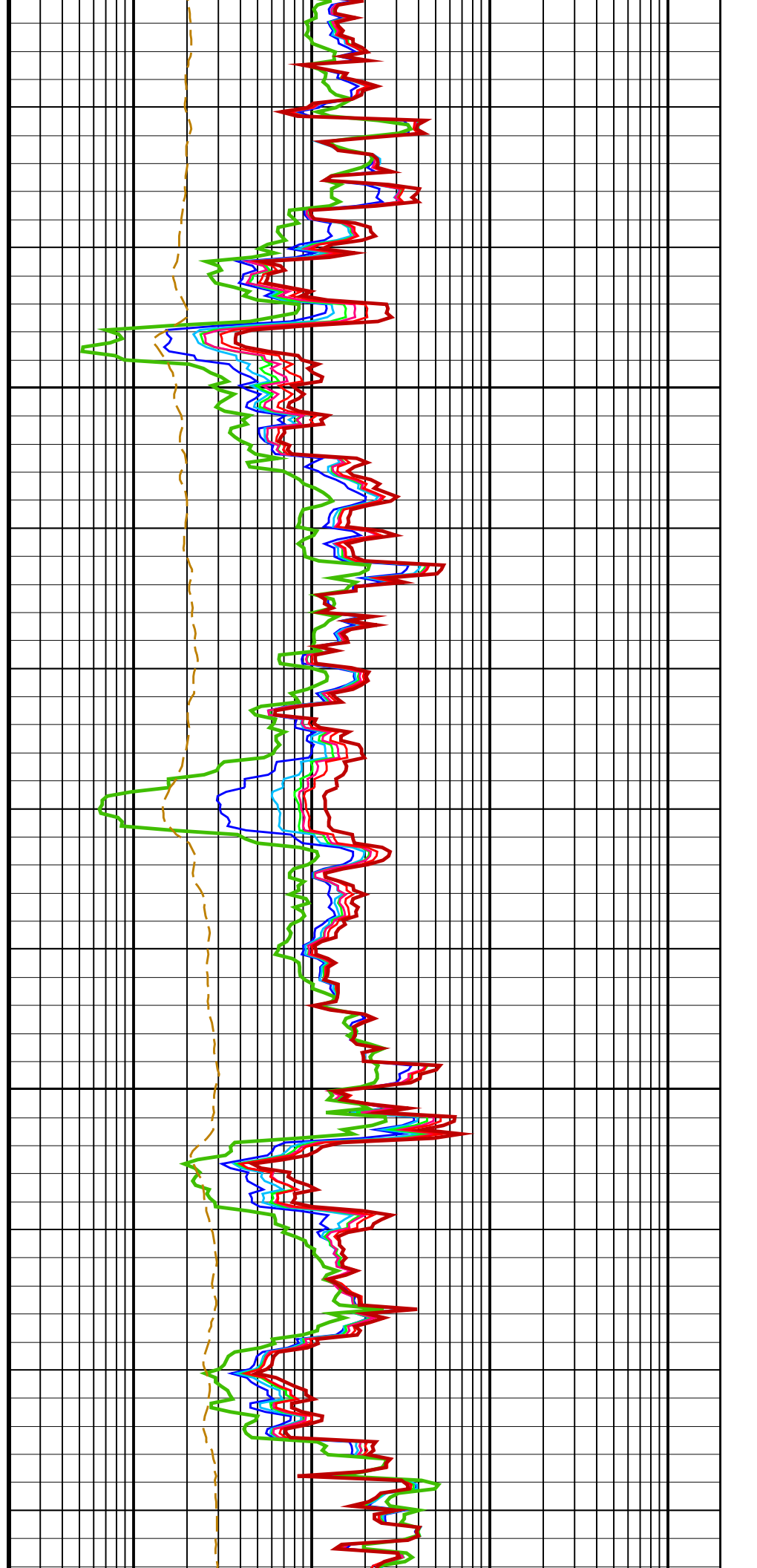
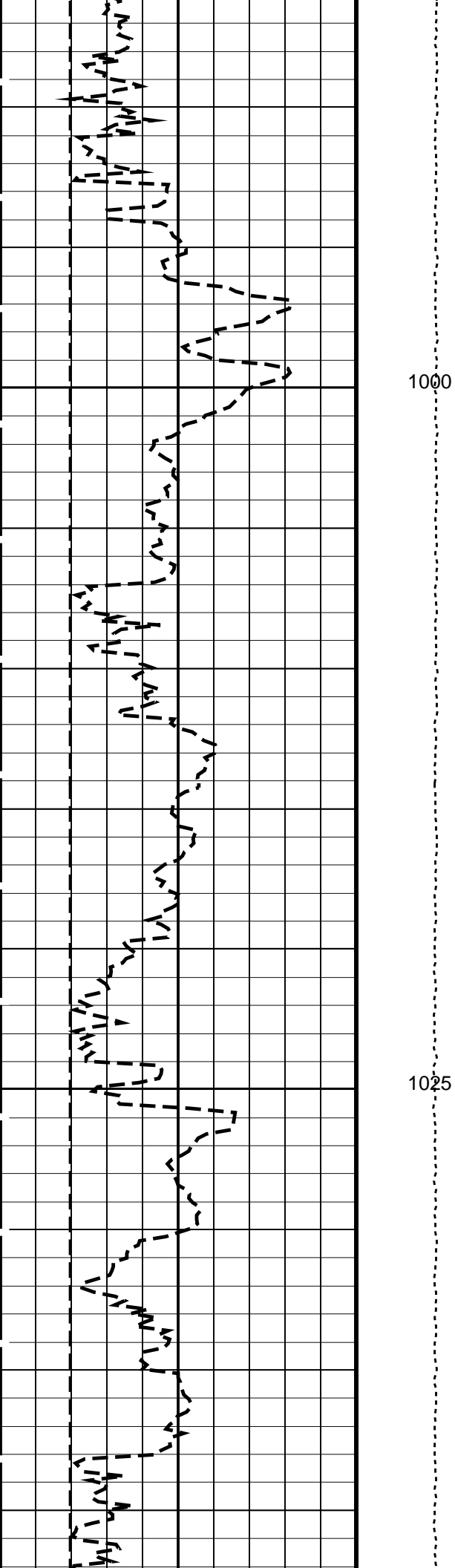


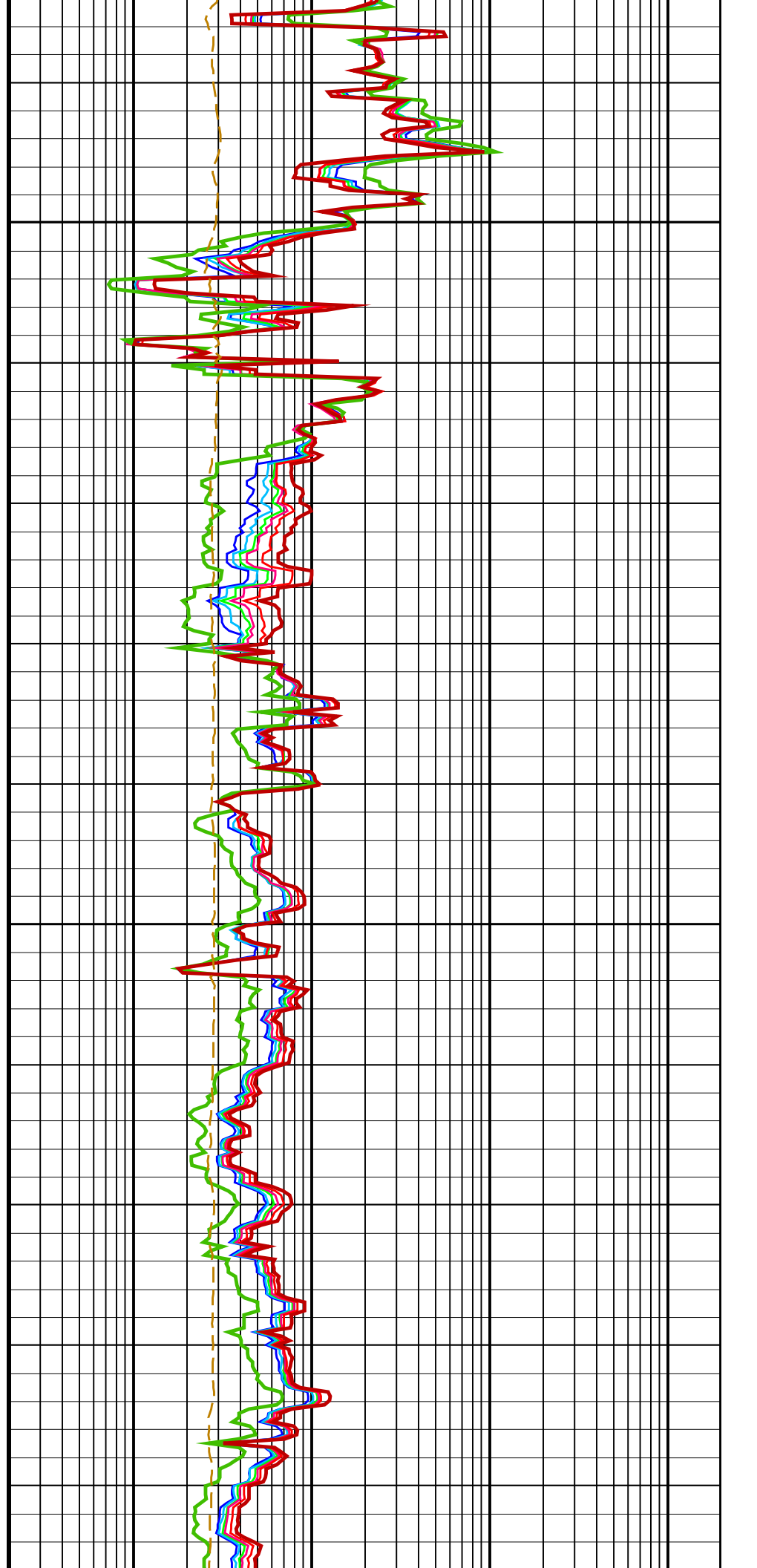
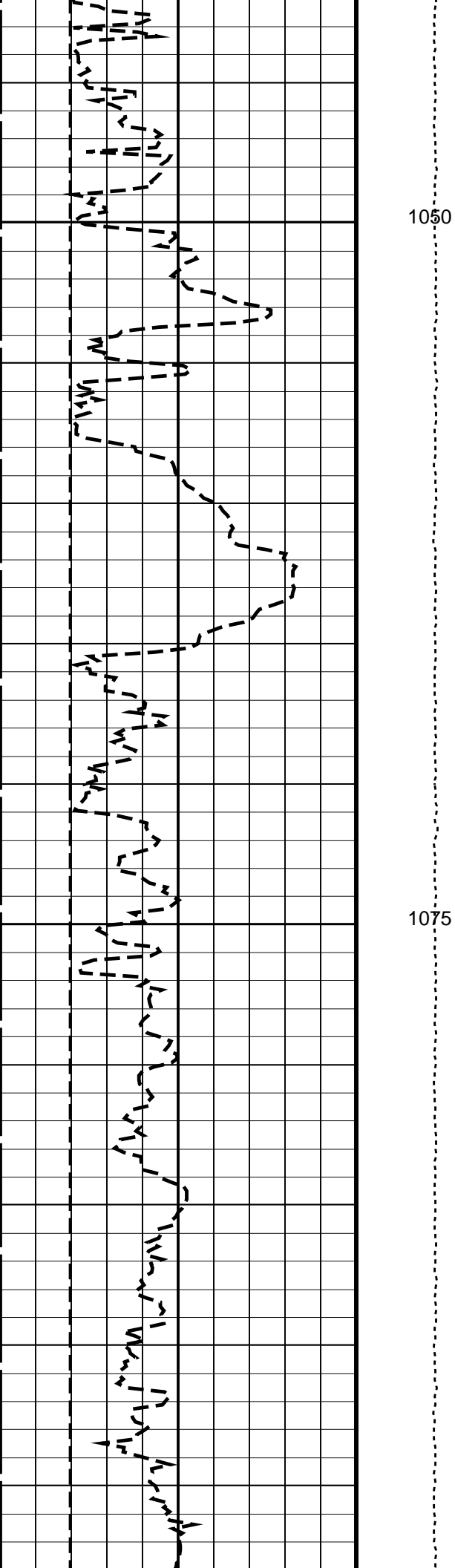


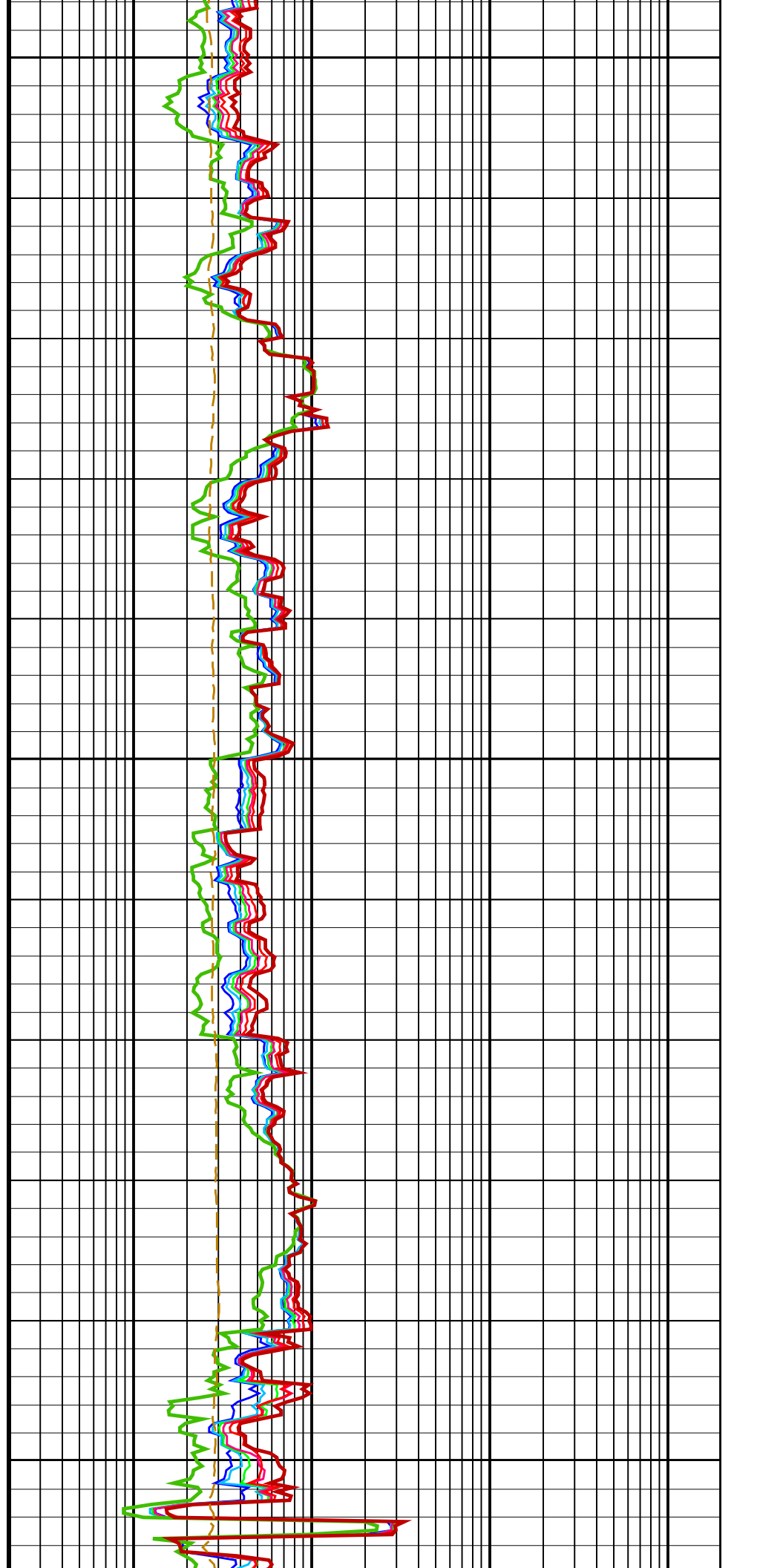
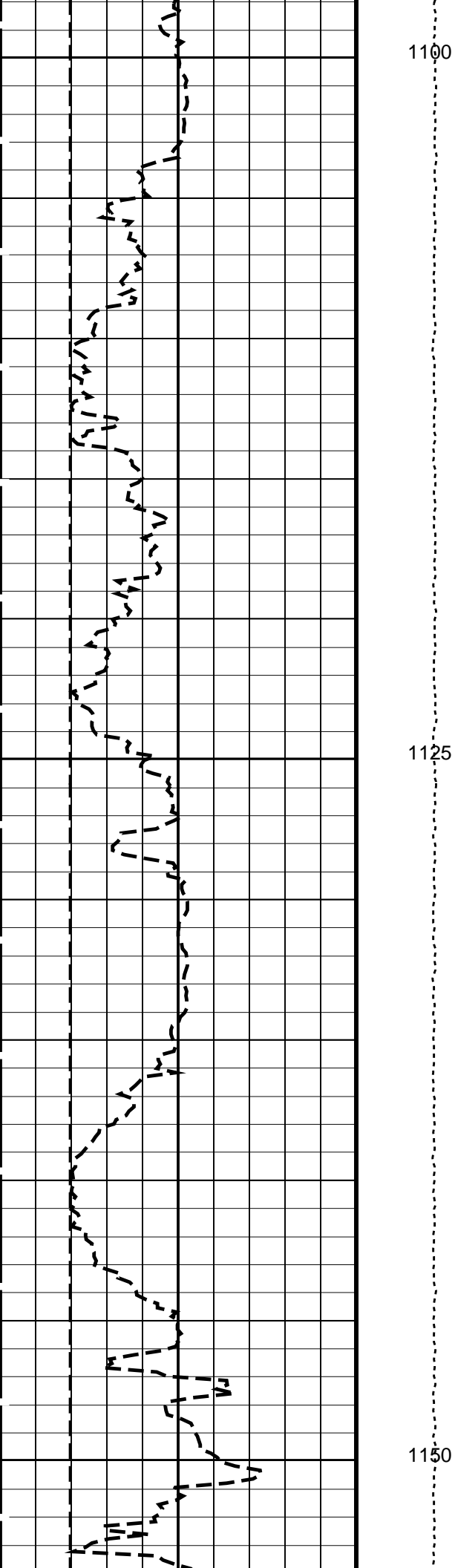
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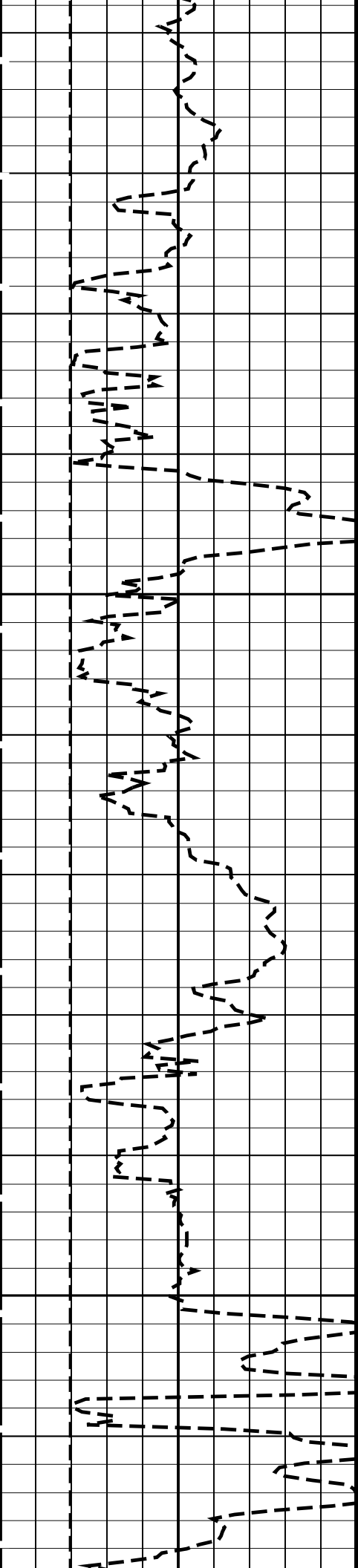
975





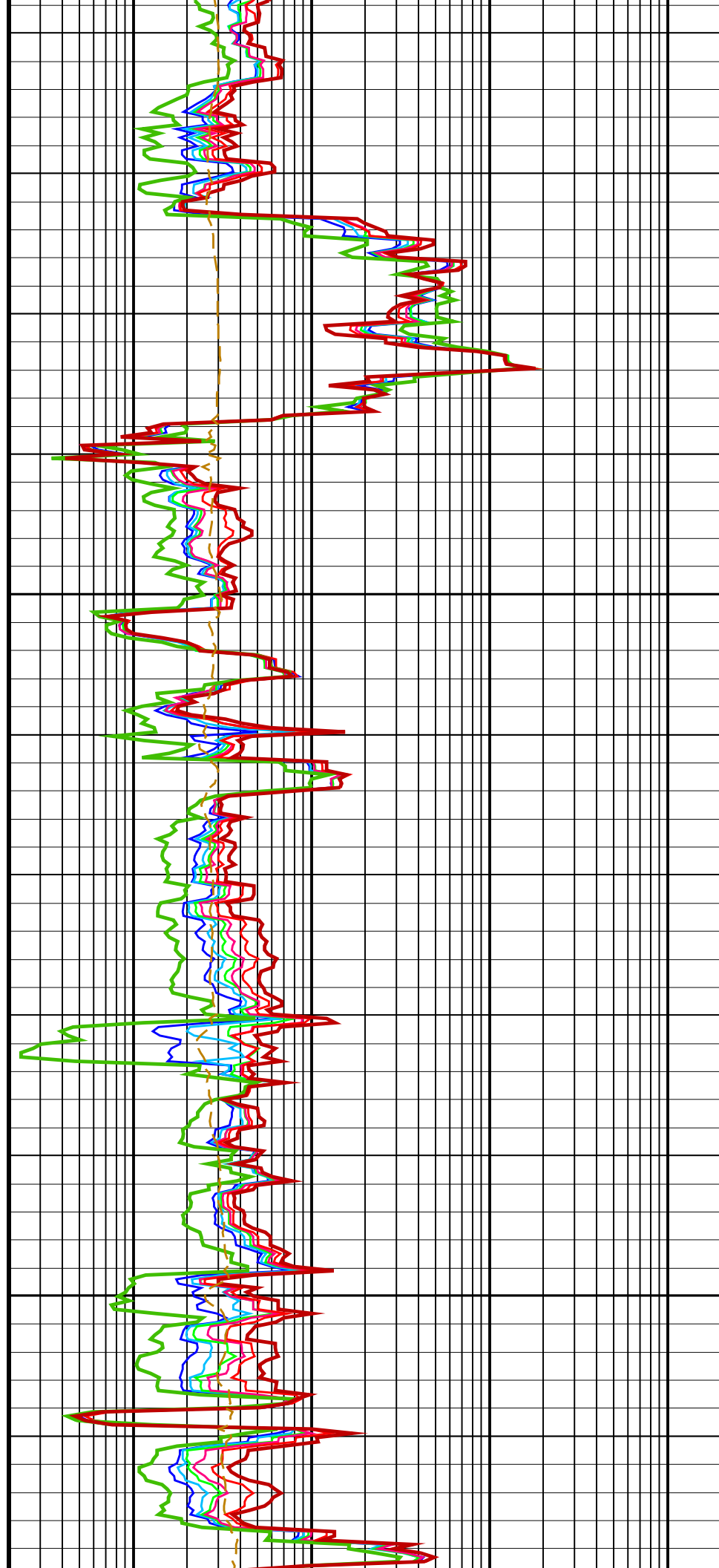


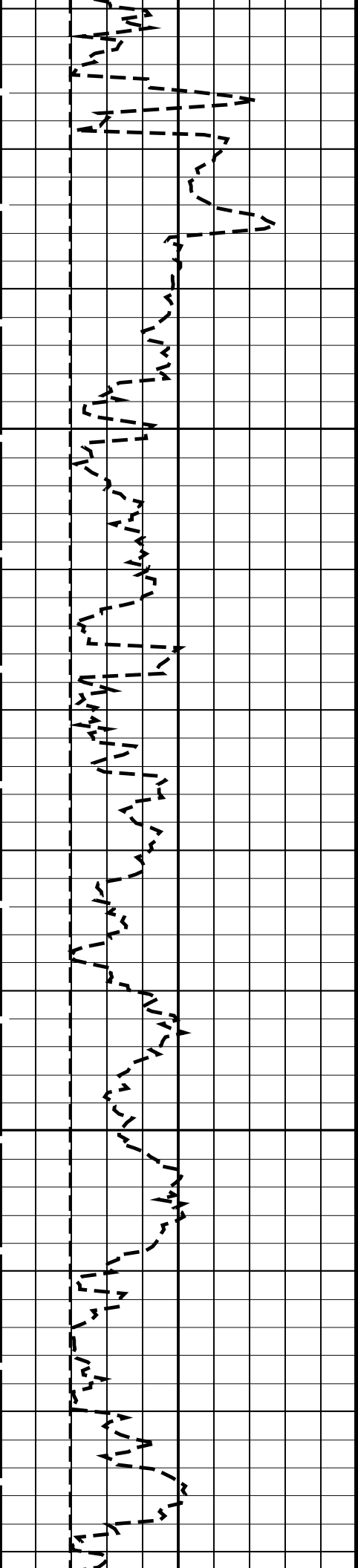




1175

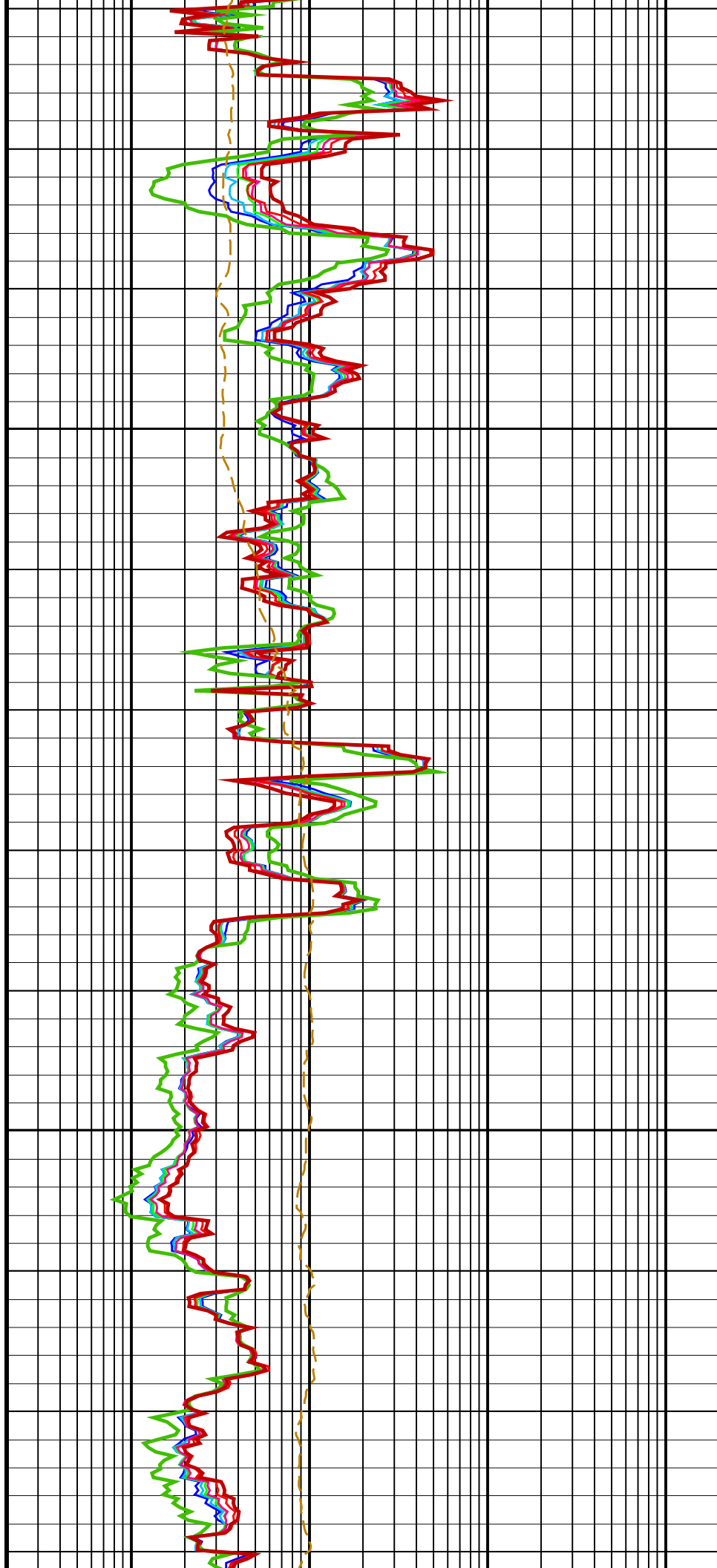
1200

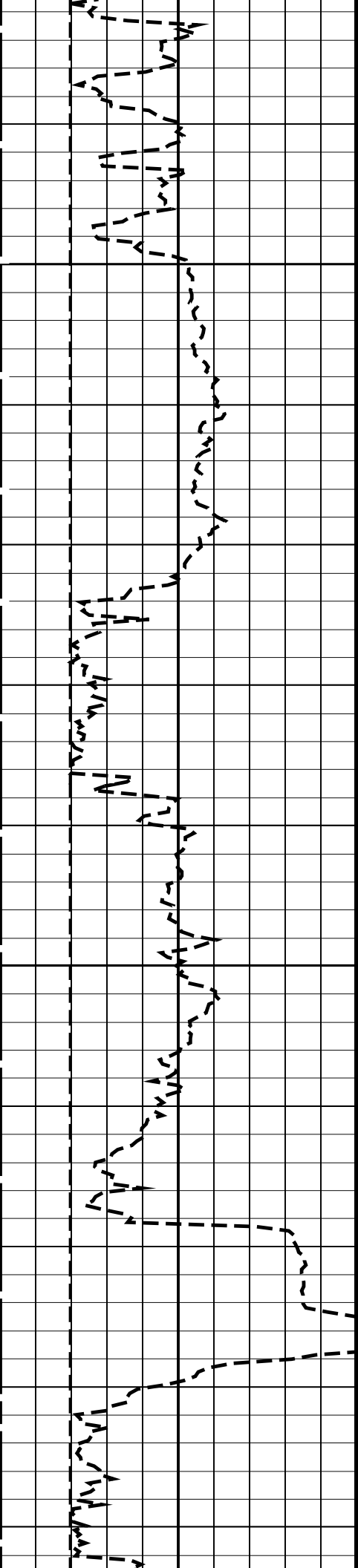




1225

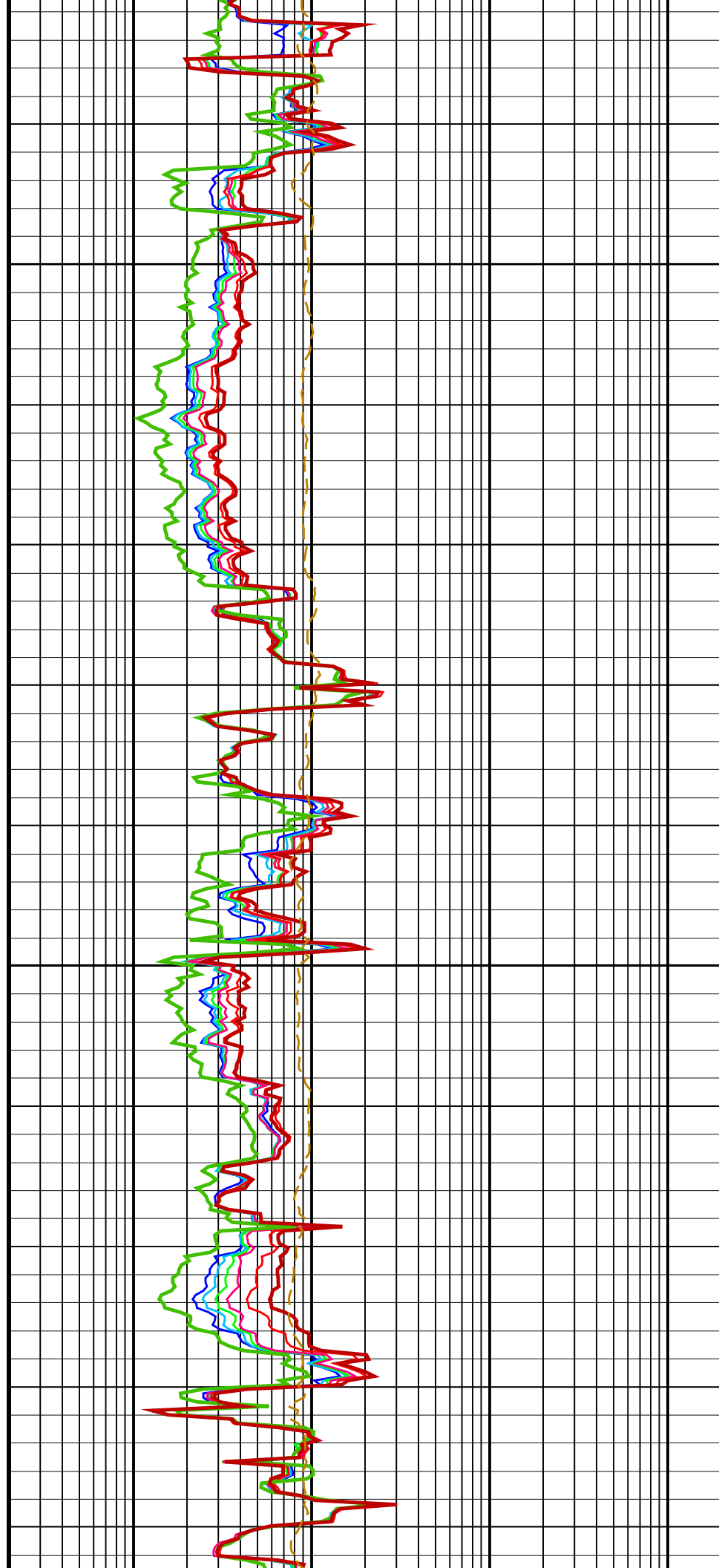
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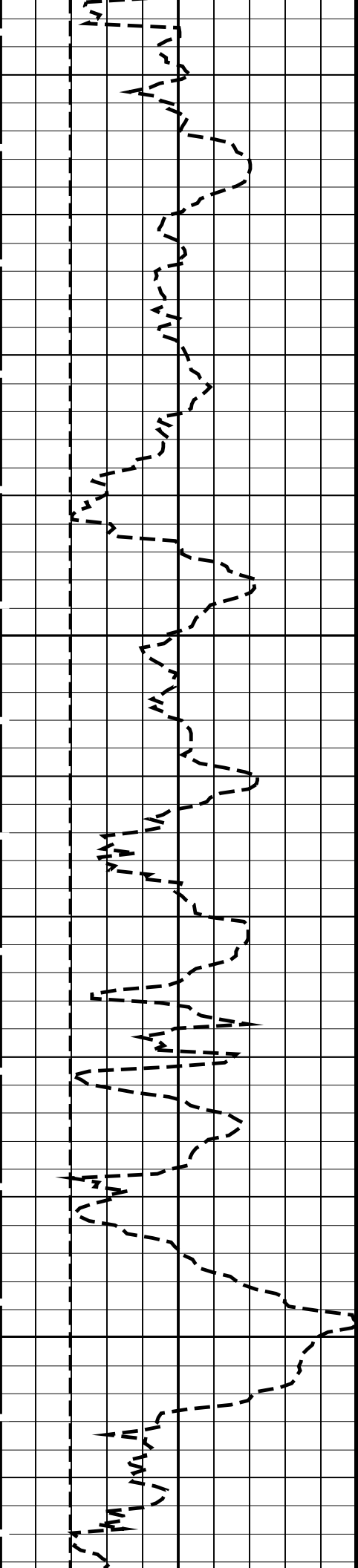




1275

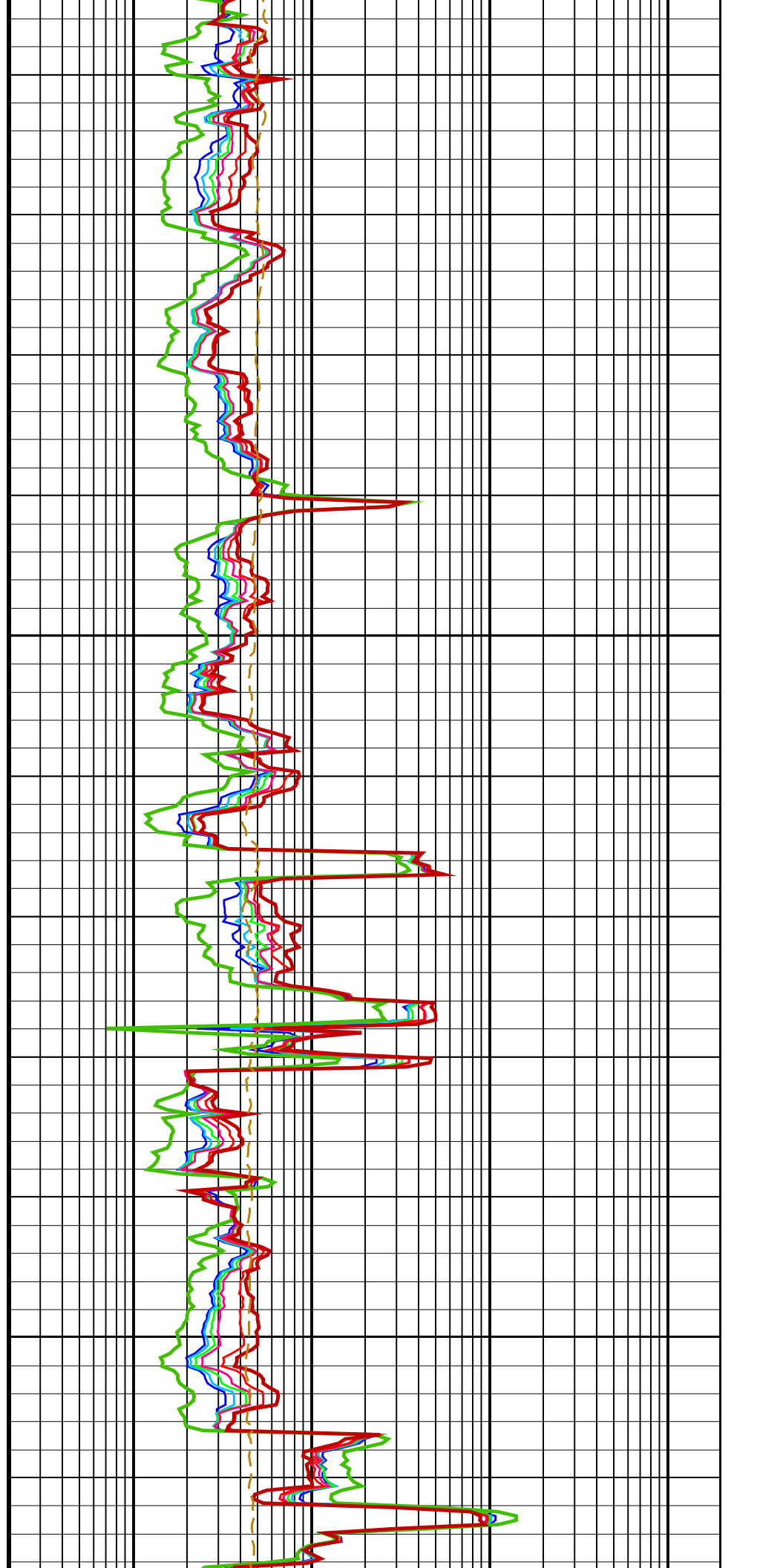
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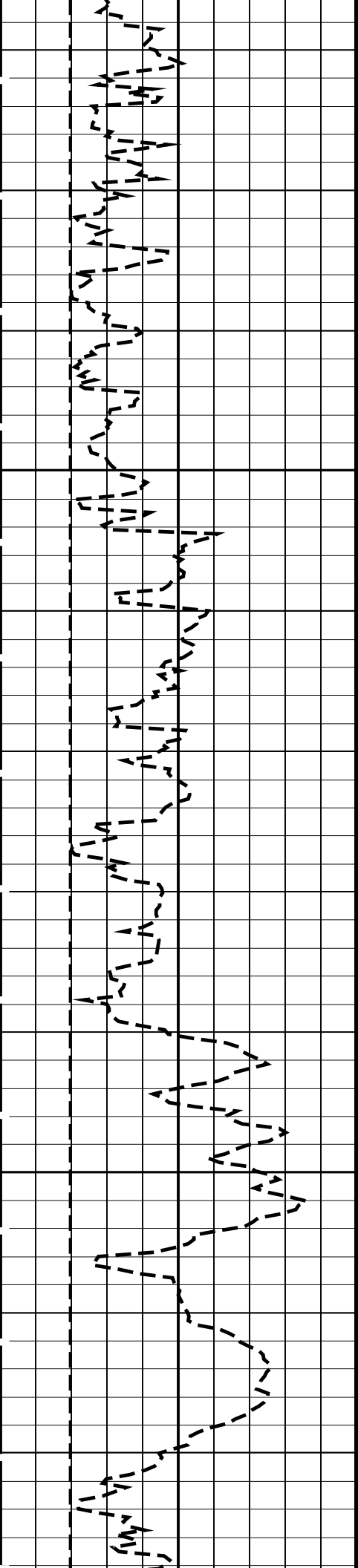




1400

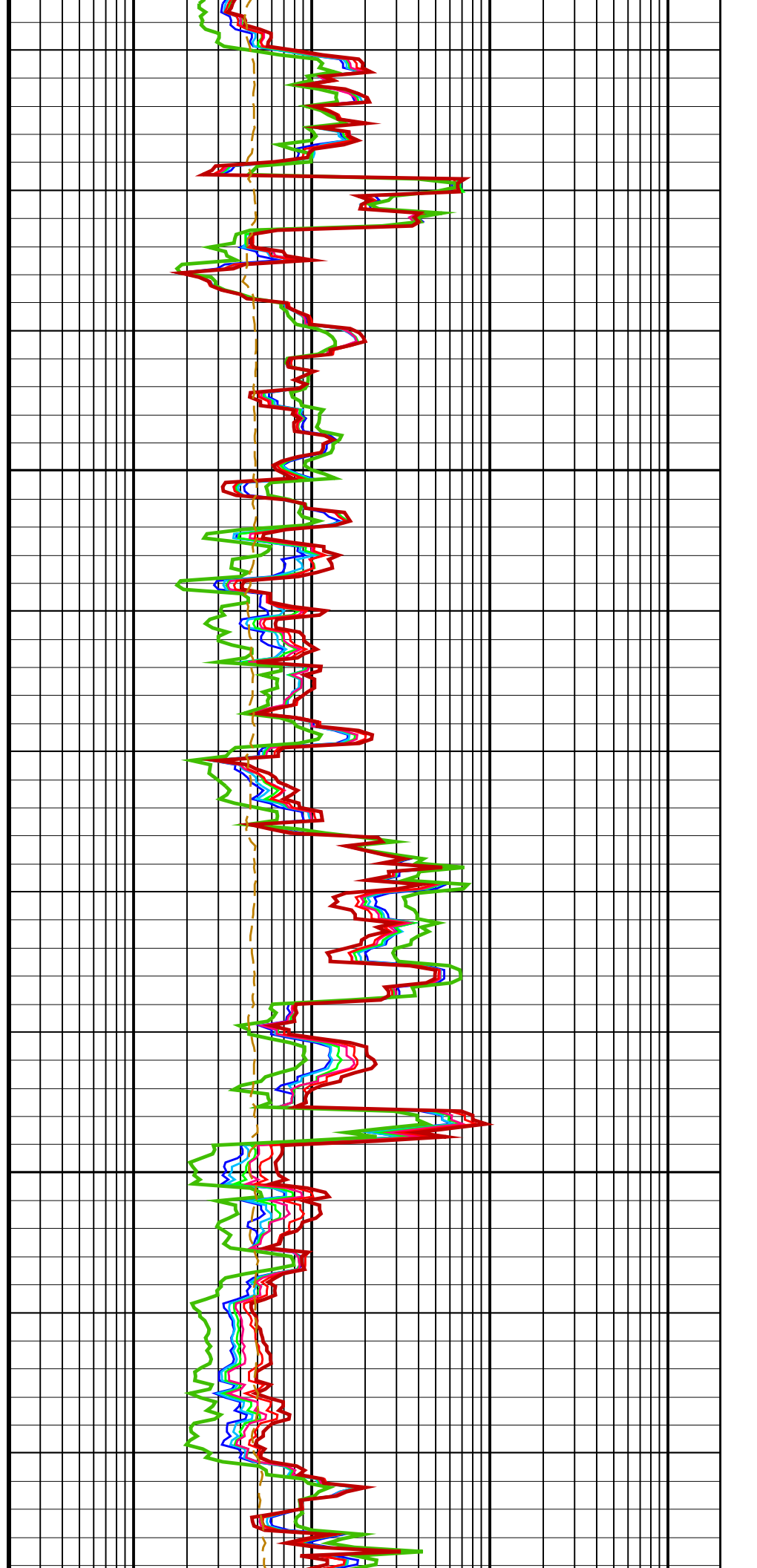
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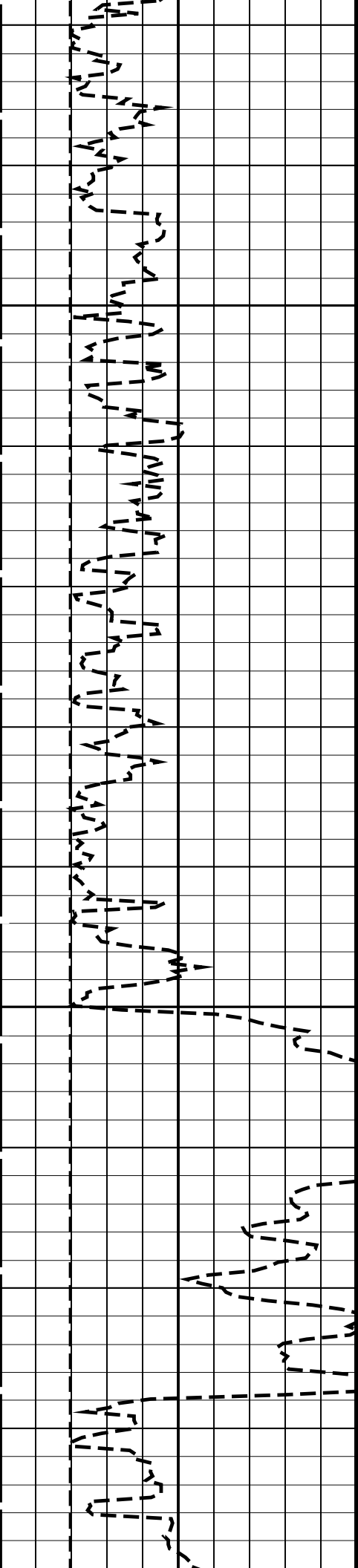




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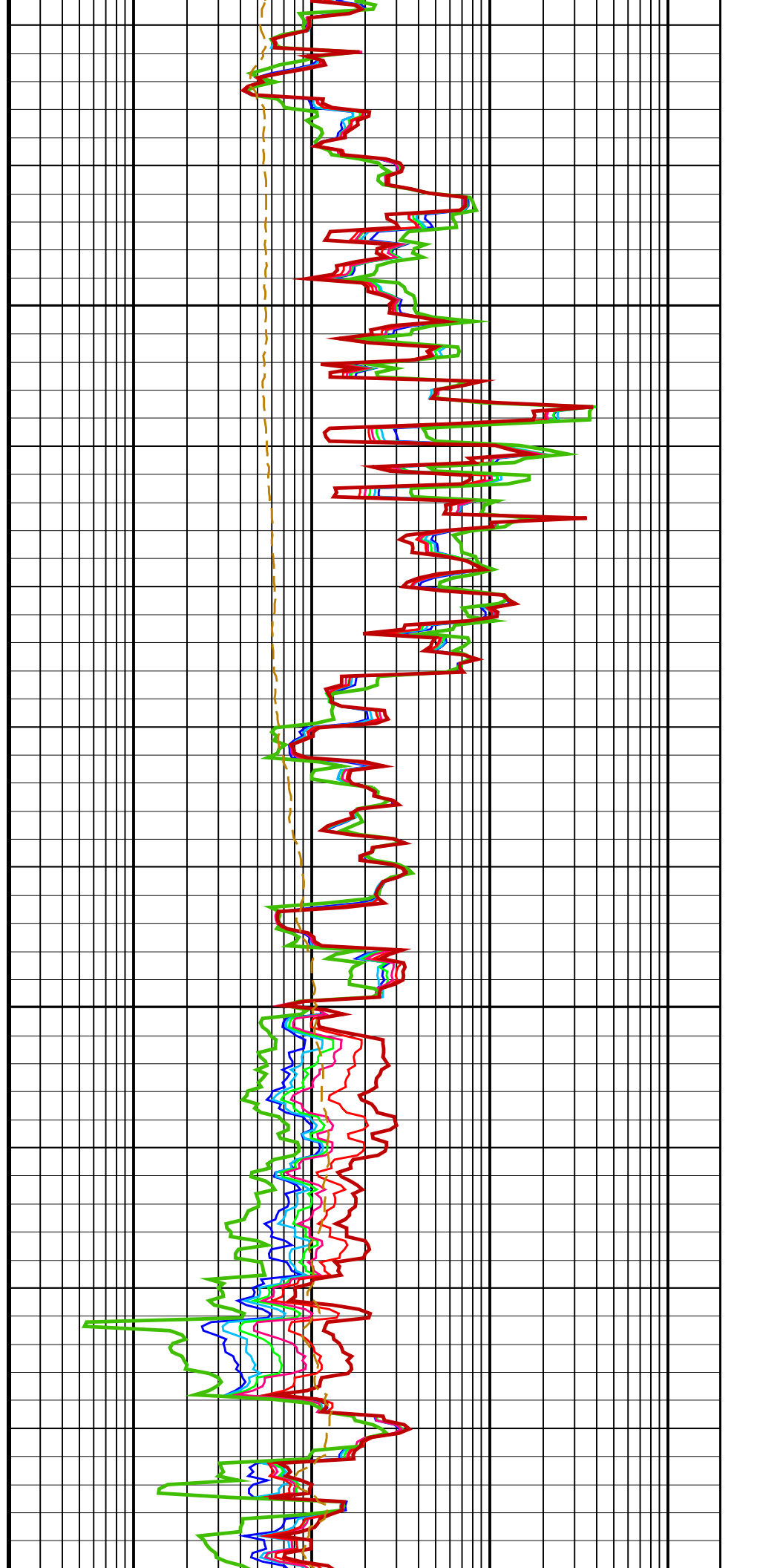
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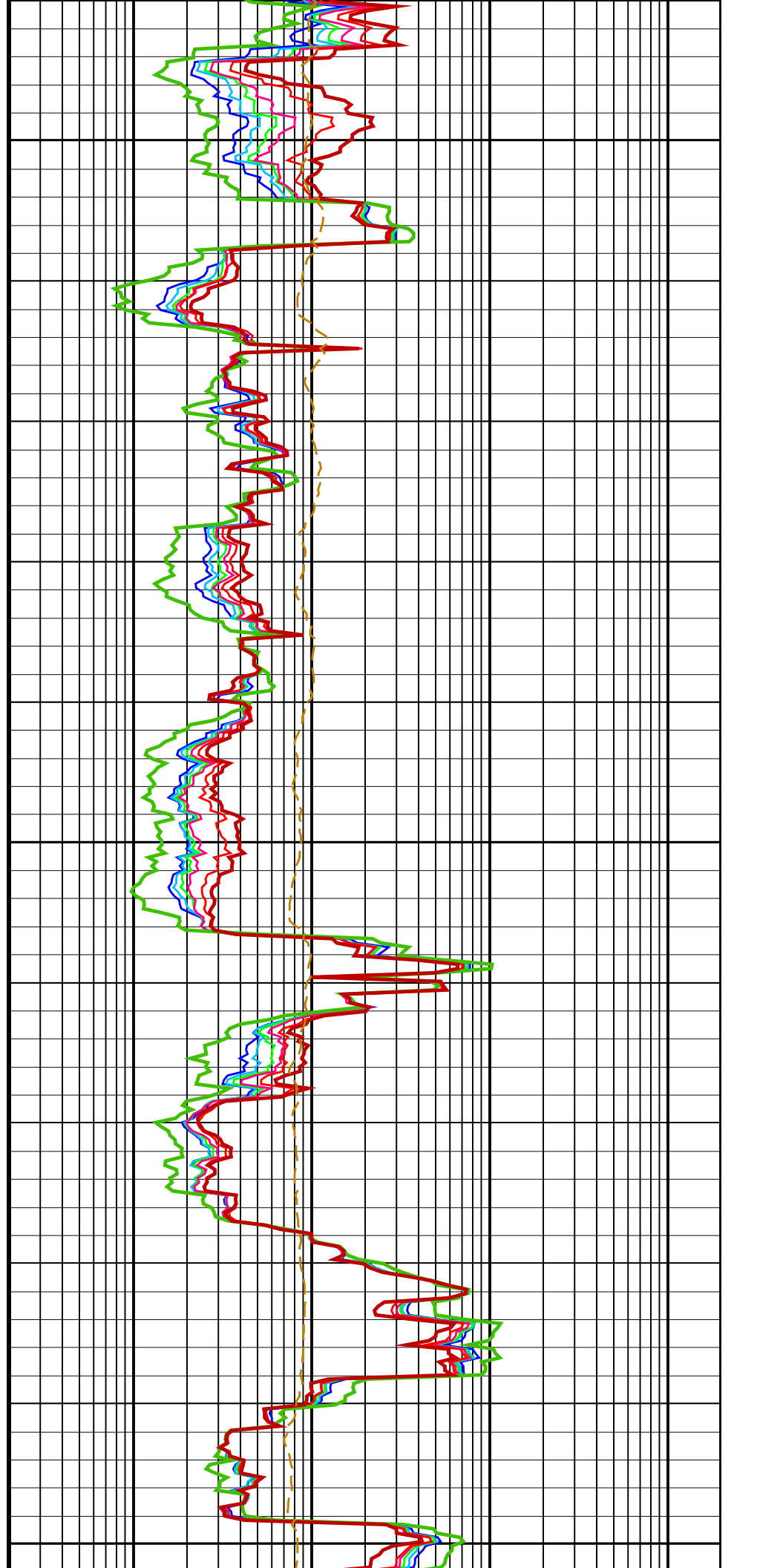
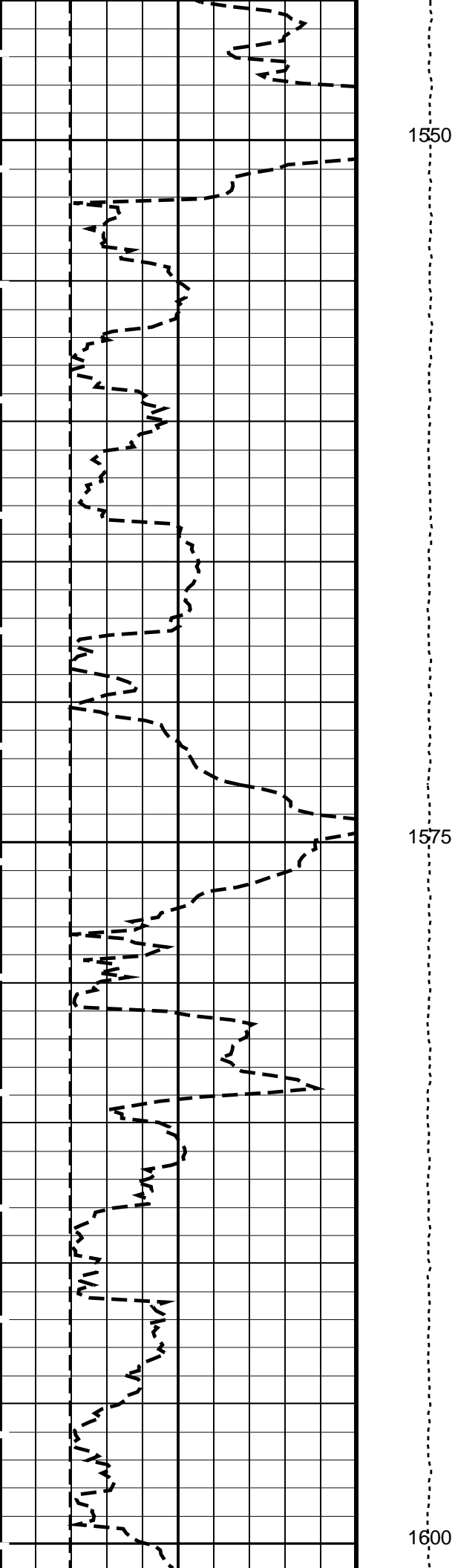


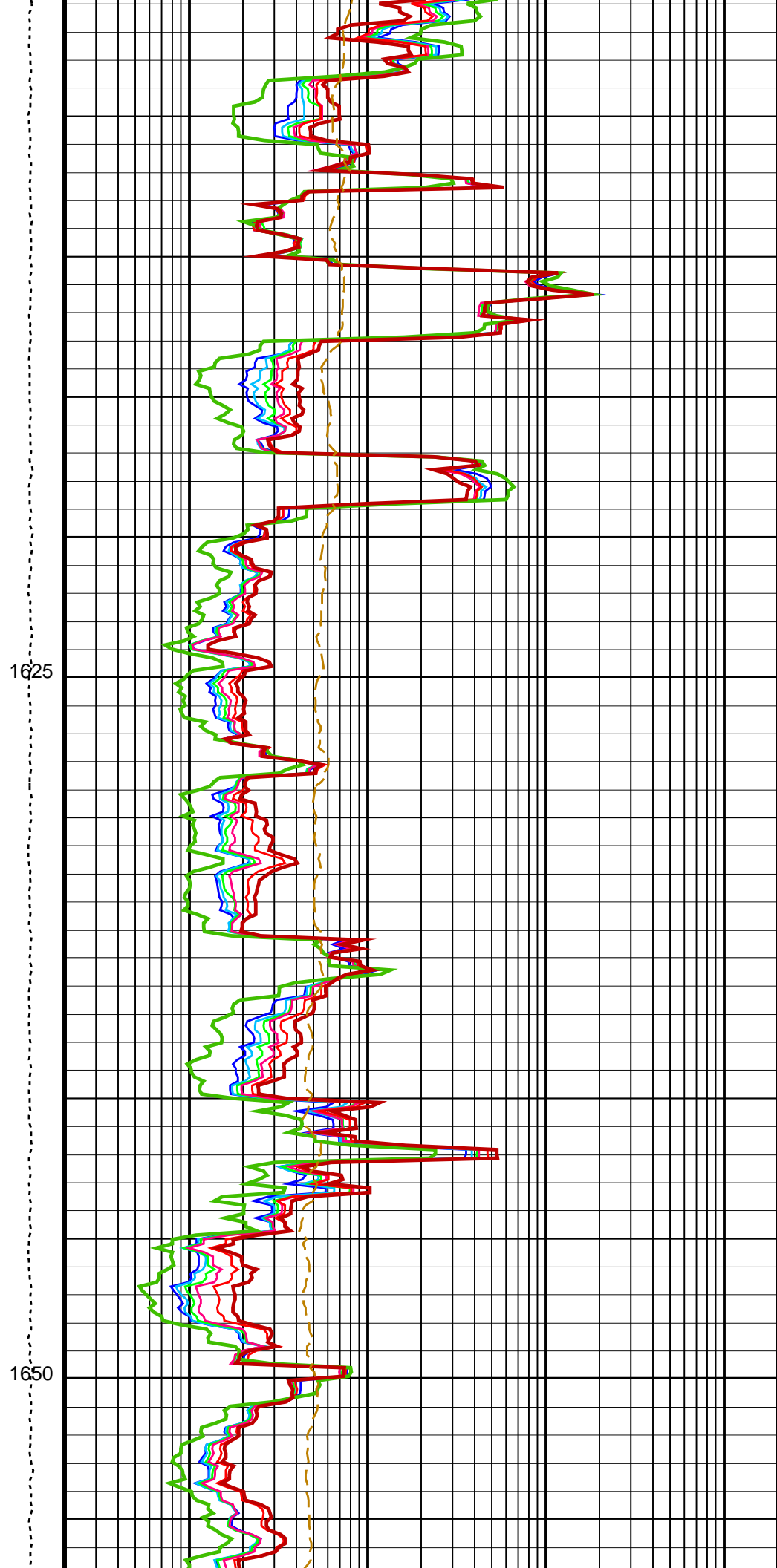
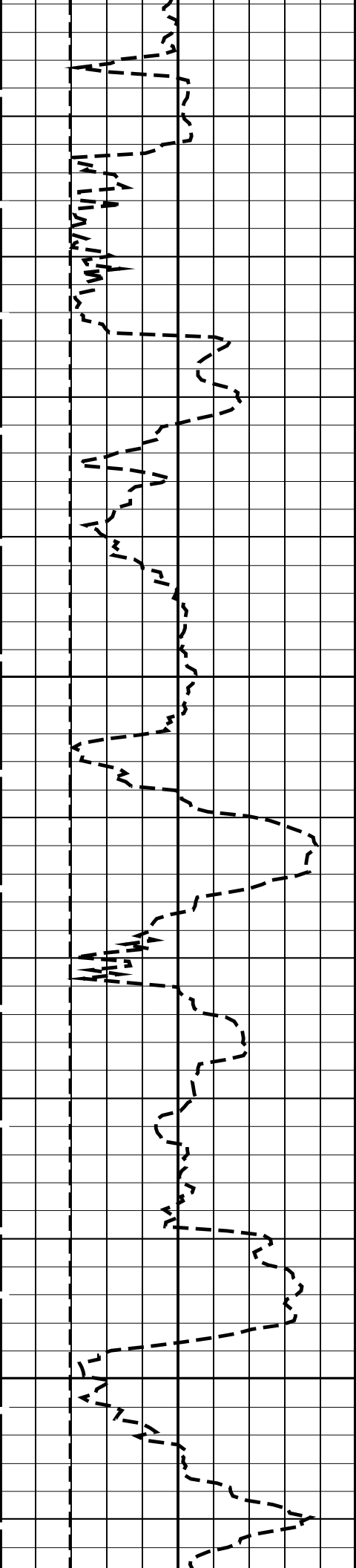


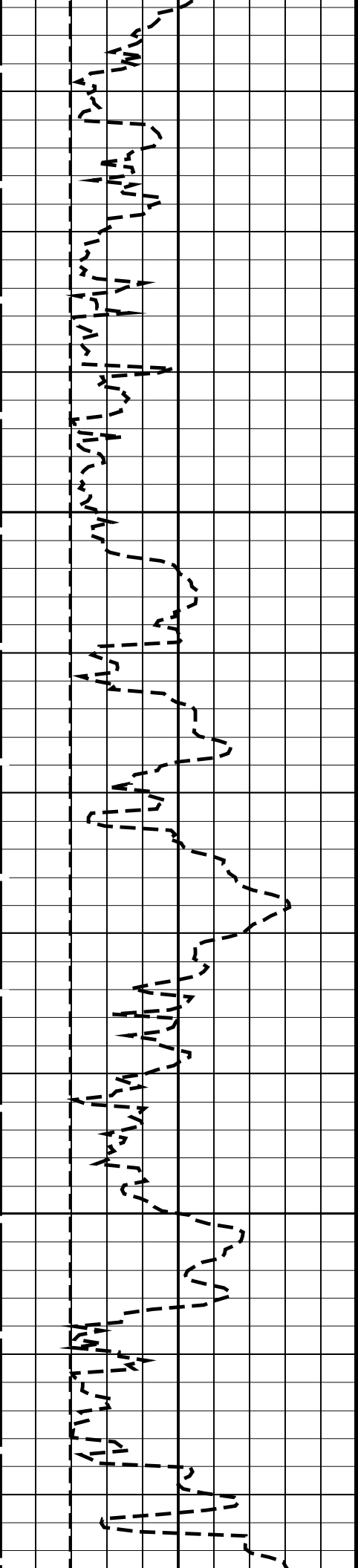
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1525



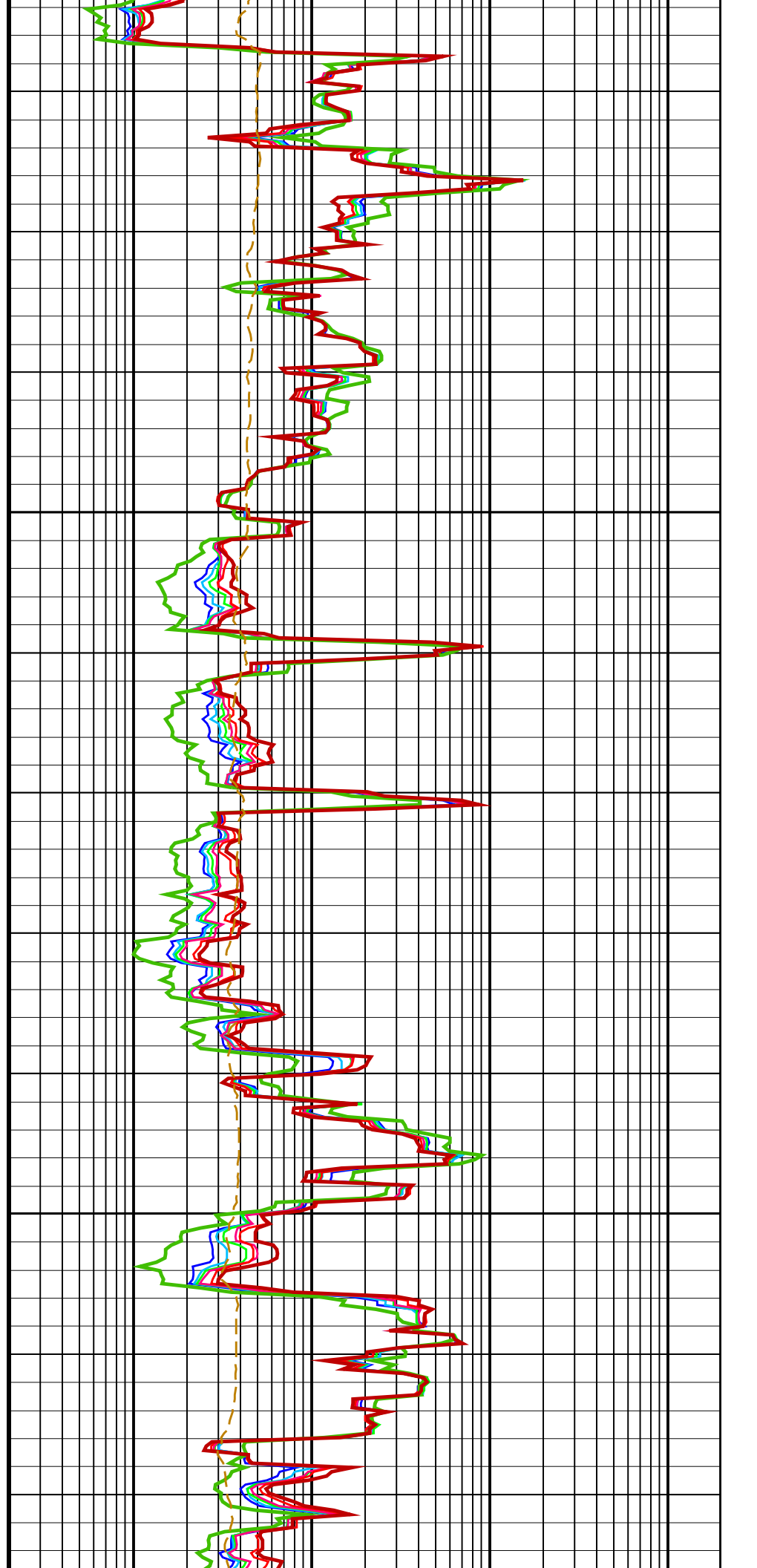


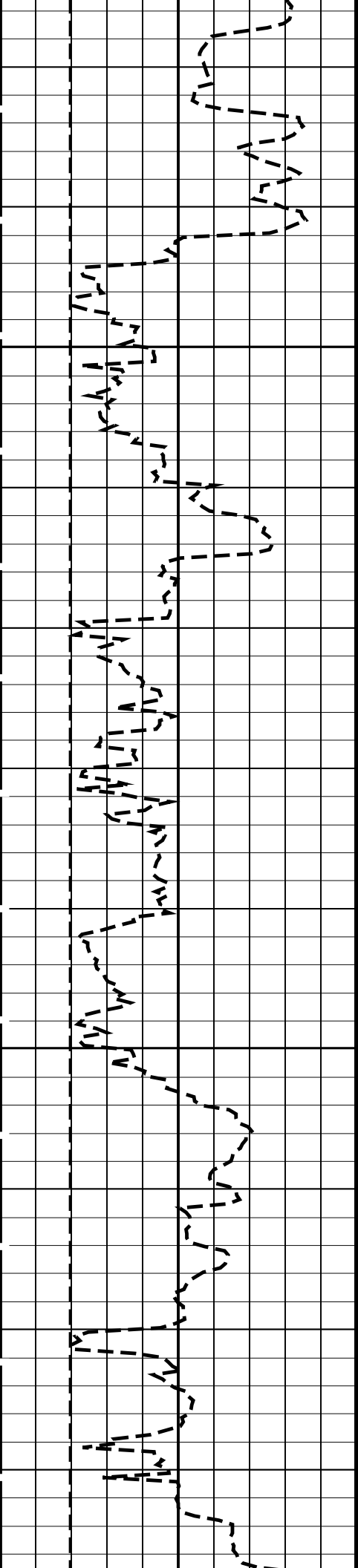




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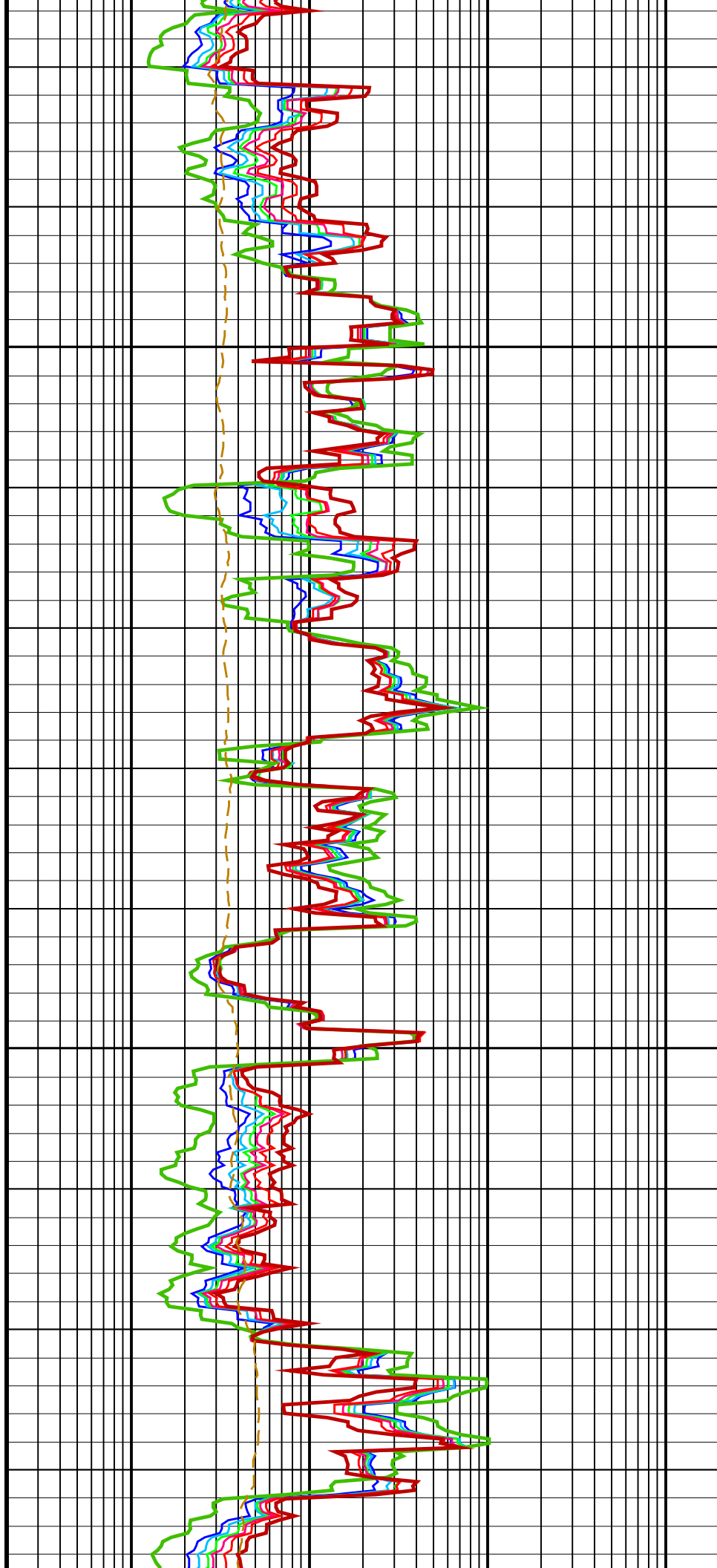
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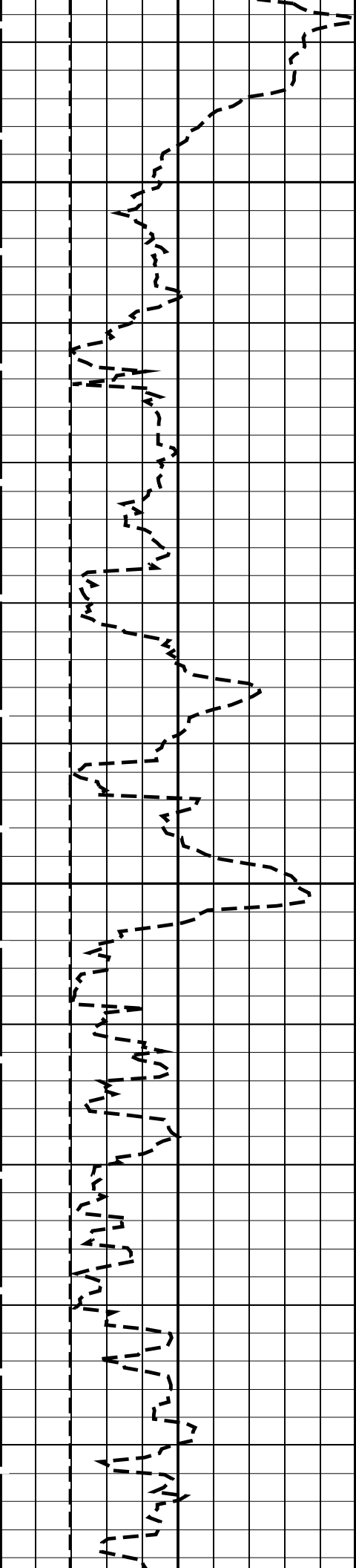




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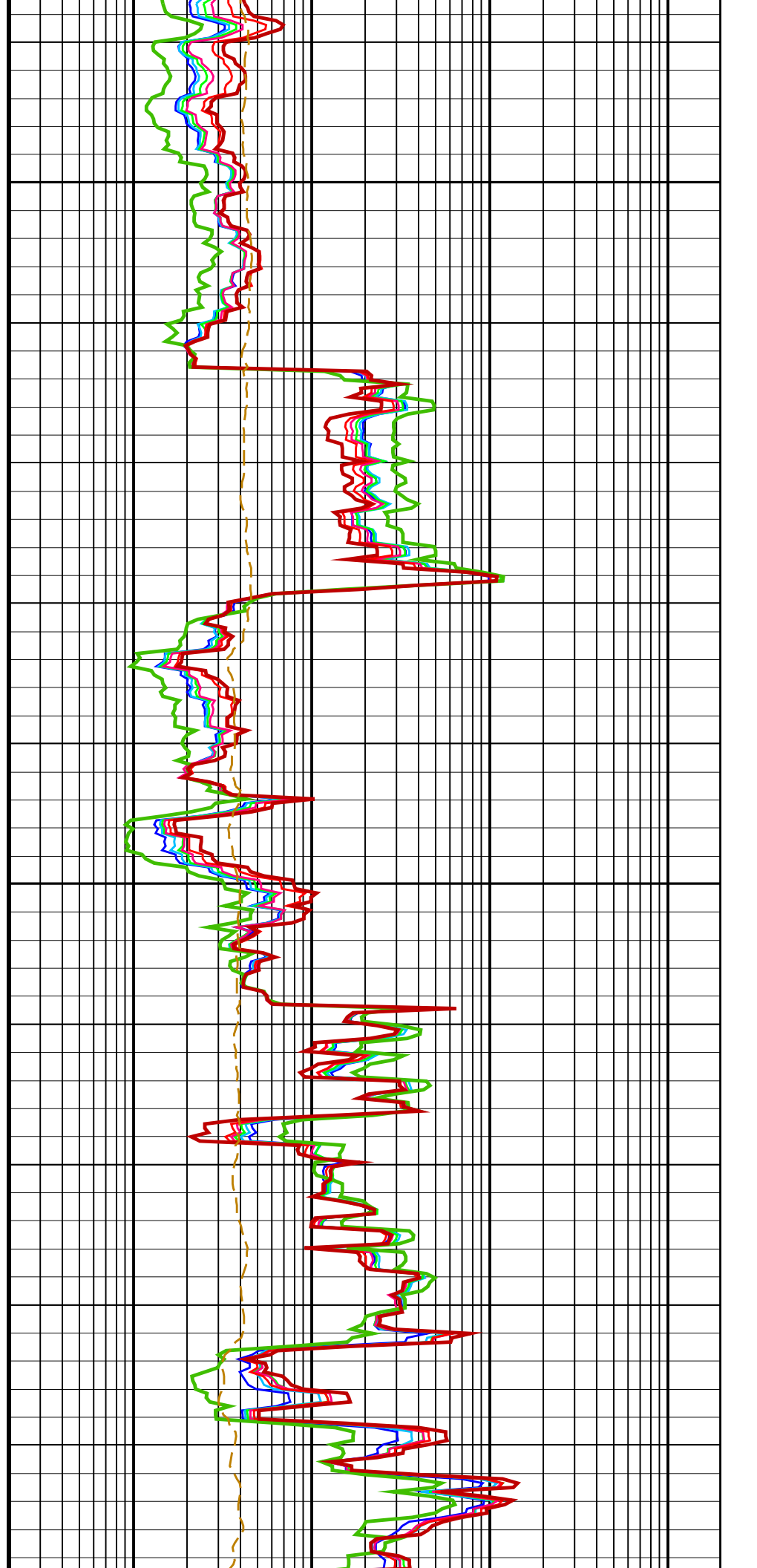
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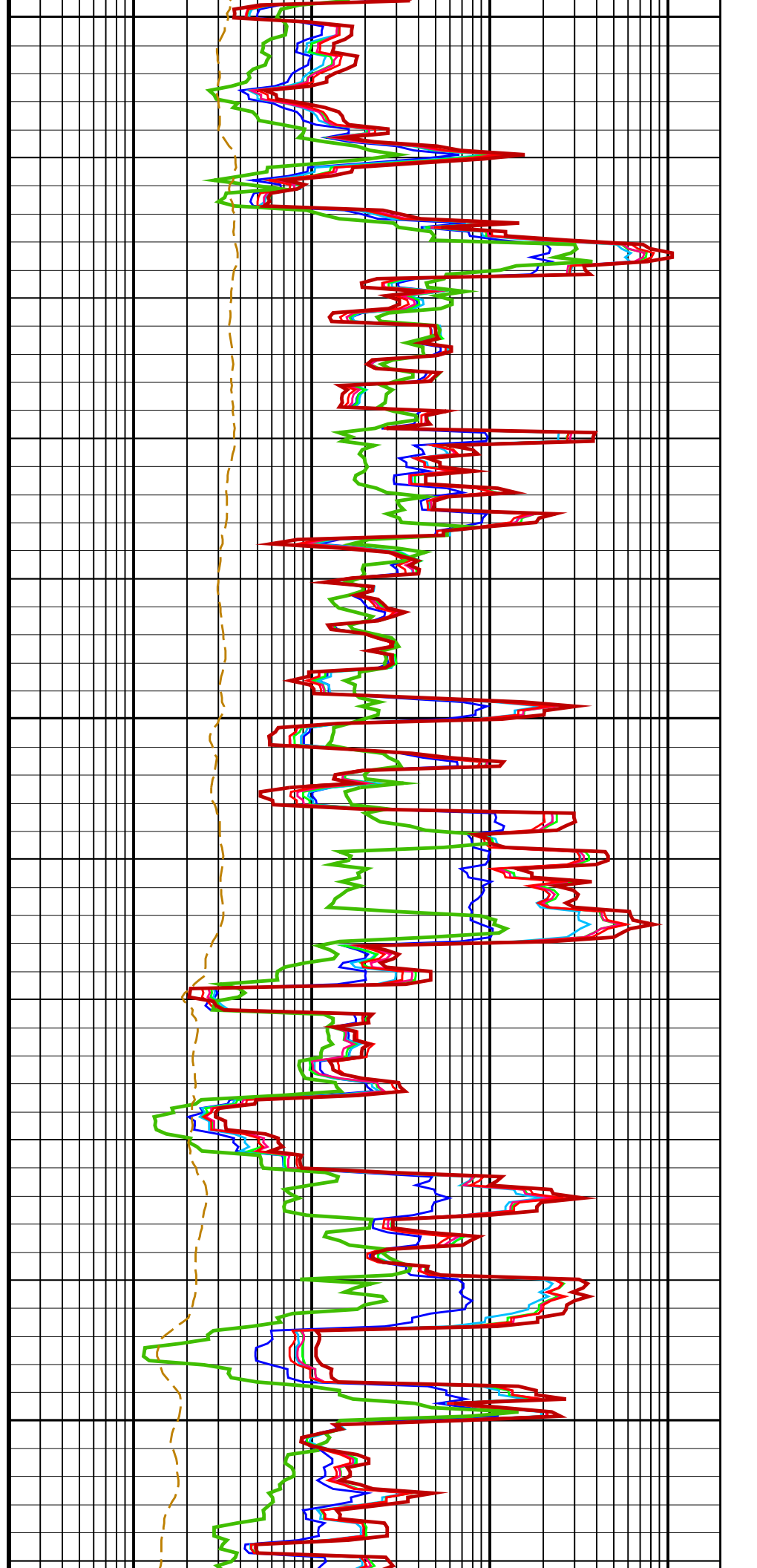
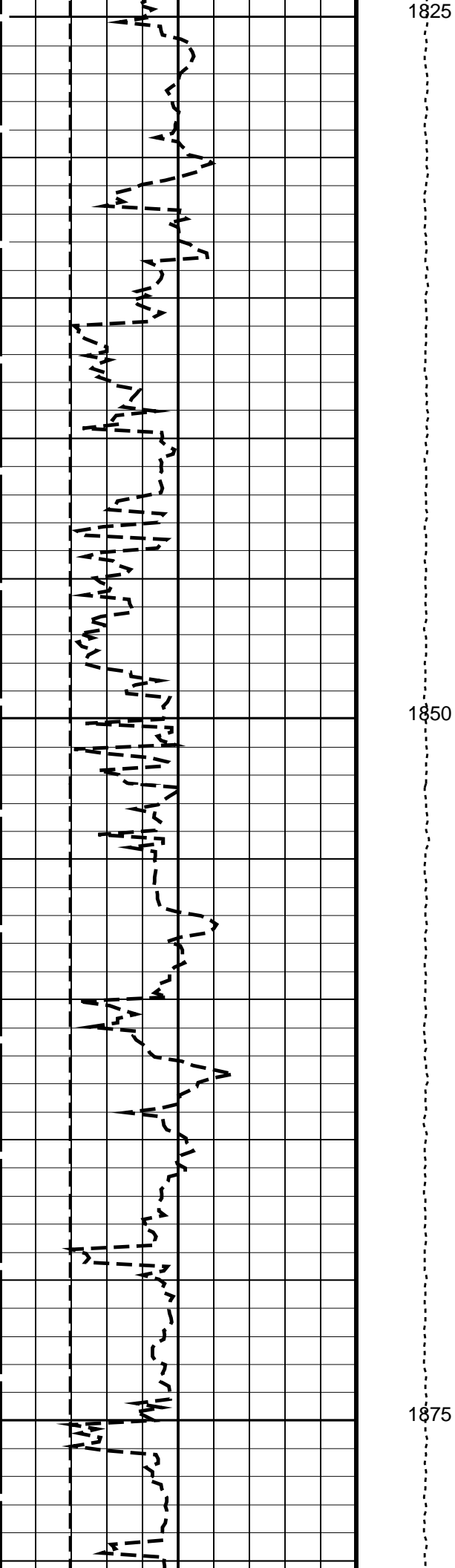


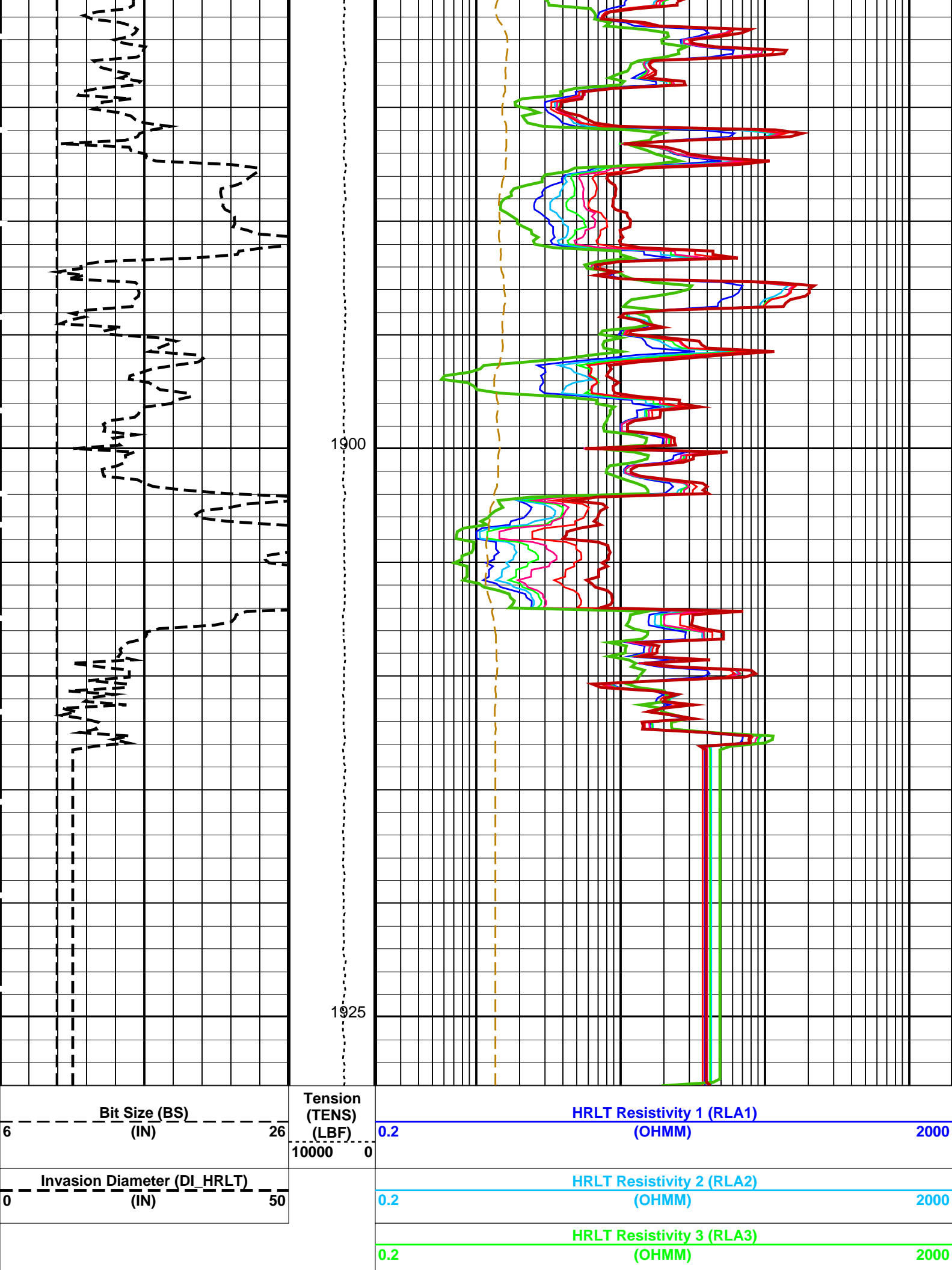


1775

1800







	HRLT Resistivity 4 (RLA4)		
	0.2	(OHMM)	2000
	HRLT Resistivity 5 (RLA5)		
	0.2	(OHMM)	2000
	HRLT Mud Resistivity (RM_HRLT)		
	0.02	(OHMM)	200
	Invaded Zone Resistivity (RXO_HRLT)		
	0.2	(OHMM)	2000
	HRLT True Resistivity (RT_HRLT)		
	0.2	(OHMM)	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters				
DLIS Name	Description	Value		
HRLT-B: High Resolution Laterolog Array – B				
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF	
GCSE	Generalized Caliper Selection	BS		
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	1.5	IN	
PROCRM	Processing Mud Resistivity Select	HRLT_Compute		
PROCSPO	Sonde Position	Centered		
SHT	Surface Hole Temperature	68	DEGF	
APS-C: Accelerator-Porosity Tool				
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF	
GCSE	Generalized Caliper Selection	BS		
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)	212	DEGF	
GCSE	Generalized Caliper Selection	BS		
GGRD	Geothermal Gradient	0.01	DF/F	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
SHT	Surface Hole Temperature	68	DEGF	
System and Miscellaneous				
BS	Bit Size	9.875	IN	
DO	Depth Offset for Playback	0.0	M	
MST	Mud Sample Temperature	23.00	DEGC	
PP	Playback Processing	NORMAL		
TD	Total Depth	-50000	FT	

Format: HRLT Vertical Scale: 1:200 Graphics File Created: 30-May-2023 14:40

OP System Version: 19C0–187				
UBI-E	19C0–187	GPIT-A/B	19C0–187	
DTA-A	19C0–187	HRLT-B	19C0–187	
APS-C	19C0–187	EDTC-B	19C0–187	

Input DLIS Files						
DEFAULT	UBI_HRLA_APS_086LUP	FN:84	PRODUCER	26-May-2023 21:23	1928.0 M	857.7 M
Output DLIS Files						
DEFAULT	UBI_HRLA_APS_111PUP	FN:106	PRODUCER	30-May-2023 14:40		

Input DLIS Files

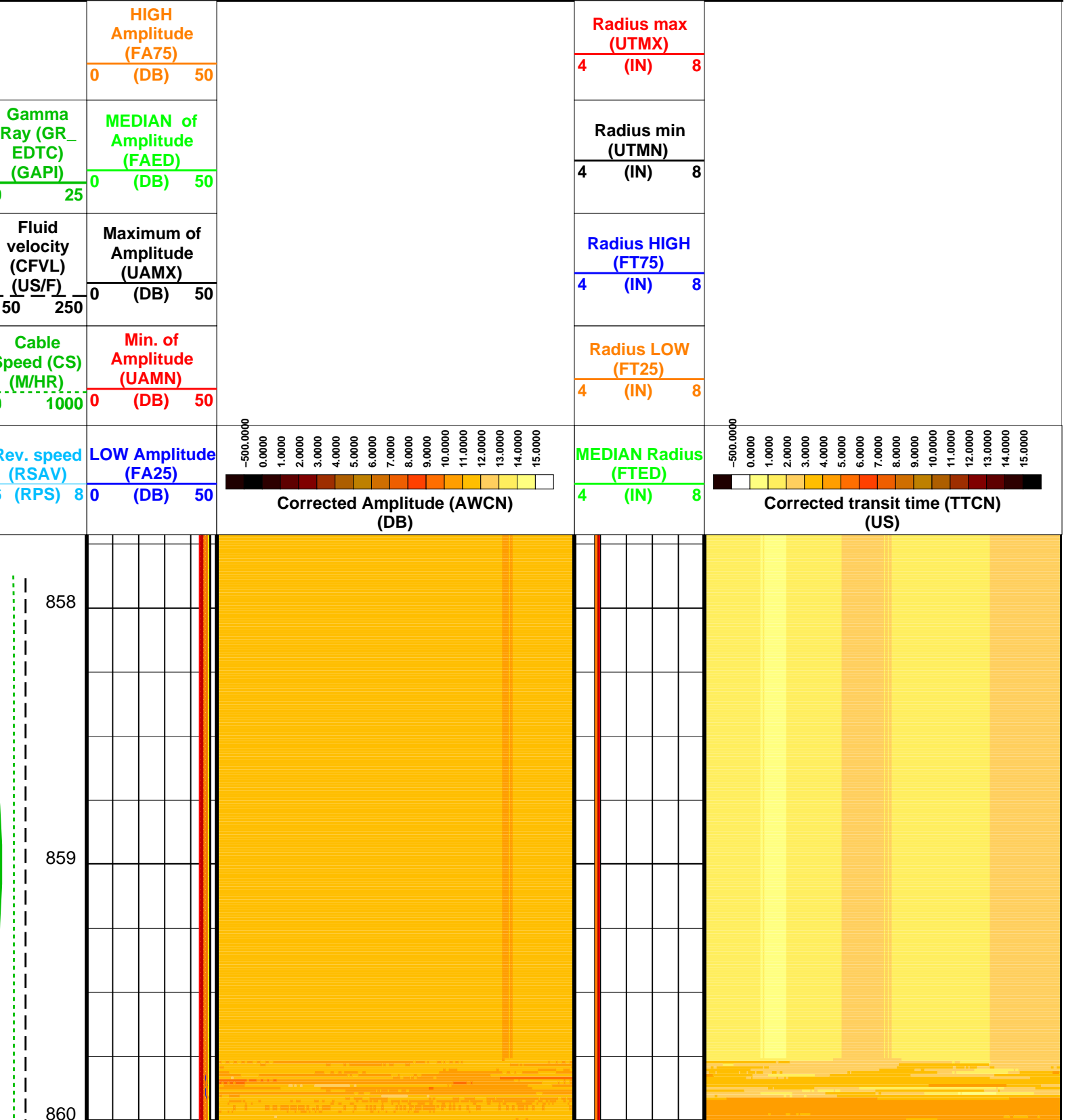
DEFAULT UBI_HRLA_APS_086LUP FN:84 PRODUCER 26-May-2023 21:23 1928.0 M 857.7 M

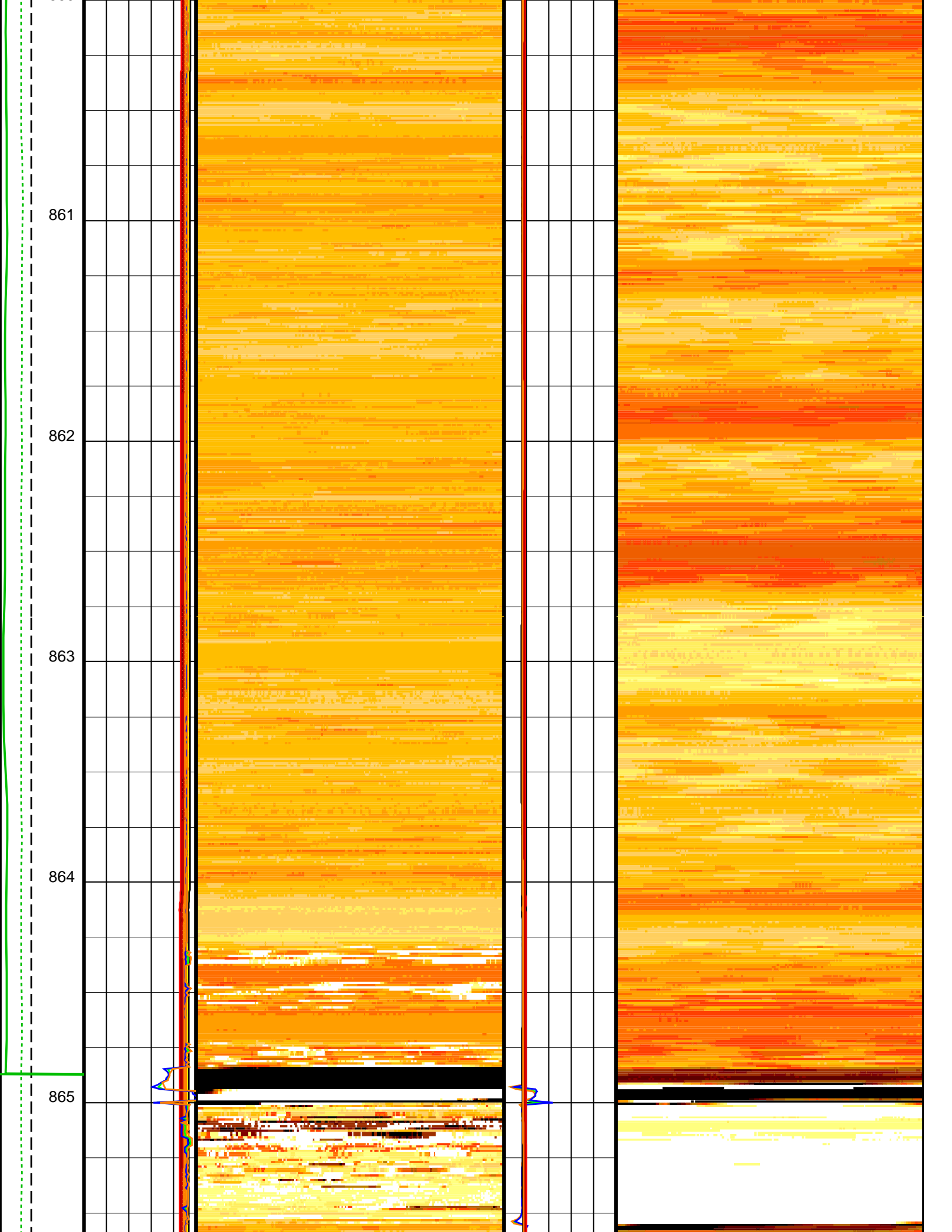
Output DLIS Files

DEFAULT UBI_HRLA_APS_111PUP FN:106 PRODUCER 30-May-2023 14:40 1928.0 M 857.7 M

OP System Version: 19C0-187

UBI-E 19C0-187 GPIT-A/B 19C0-187
DTA-A 19C0-187 HRLT-B 19C0-187
APS-C 19C0-187 EDTC-B 19C0-187





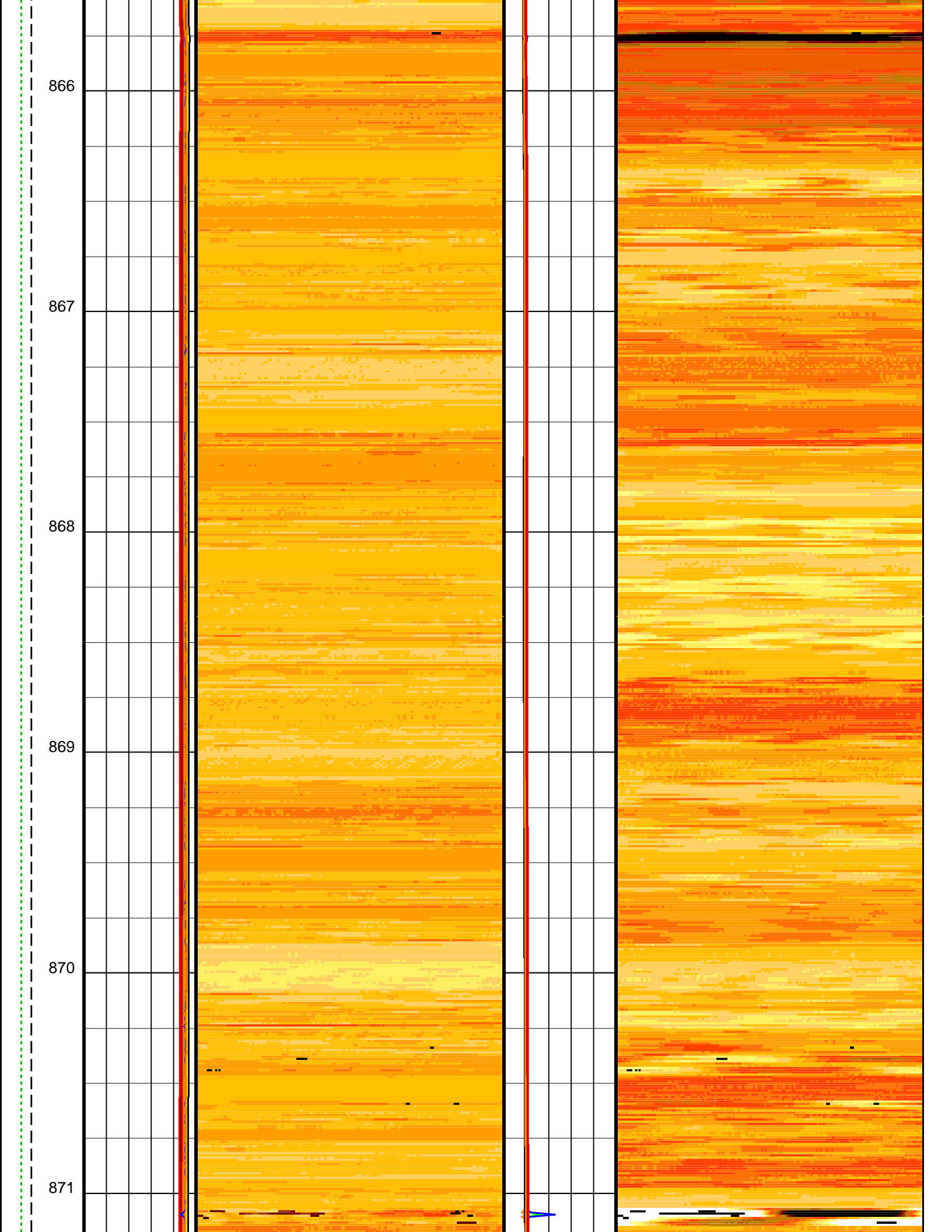
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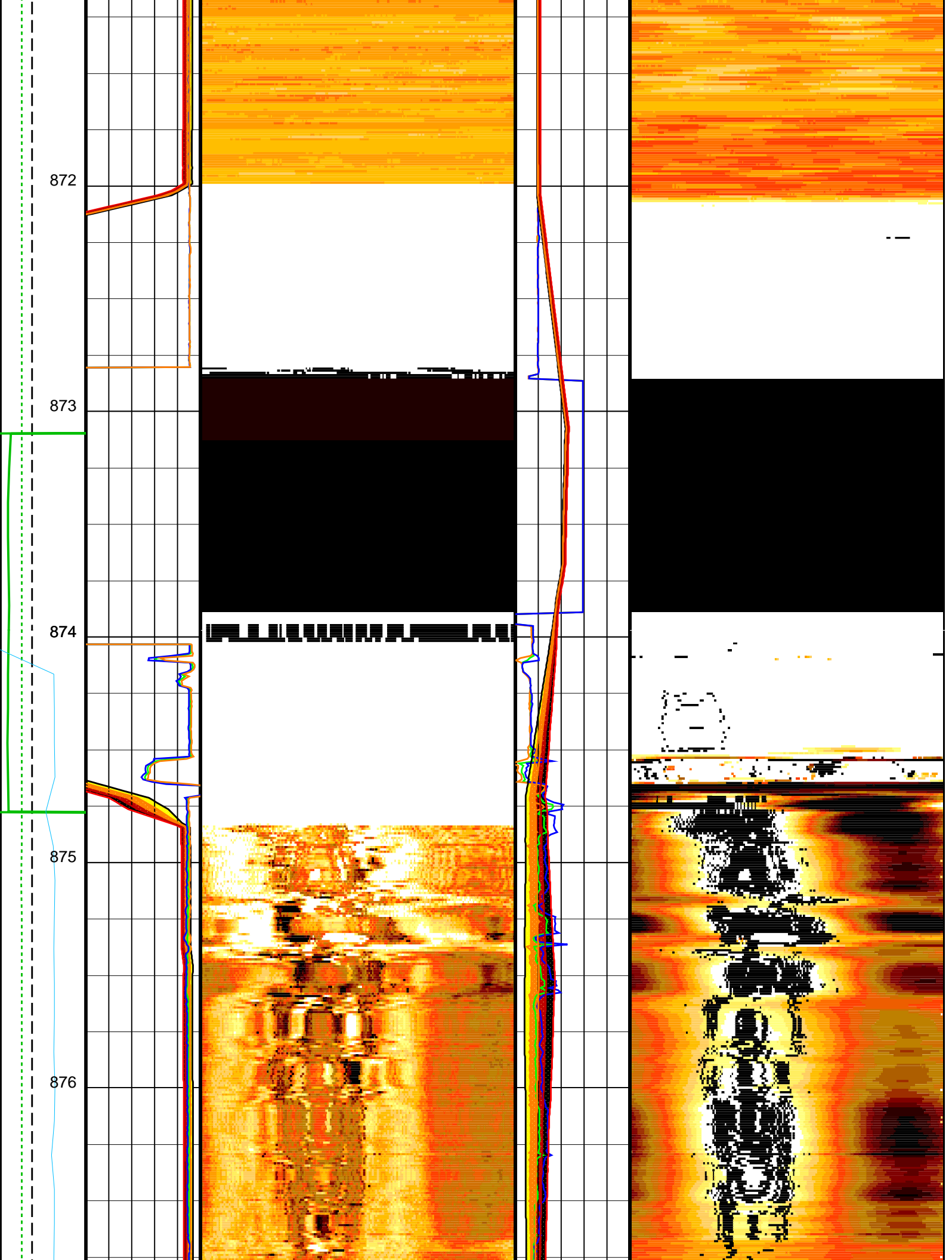
862

863

864

865





877

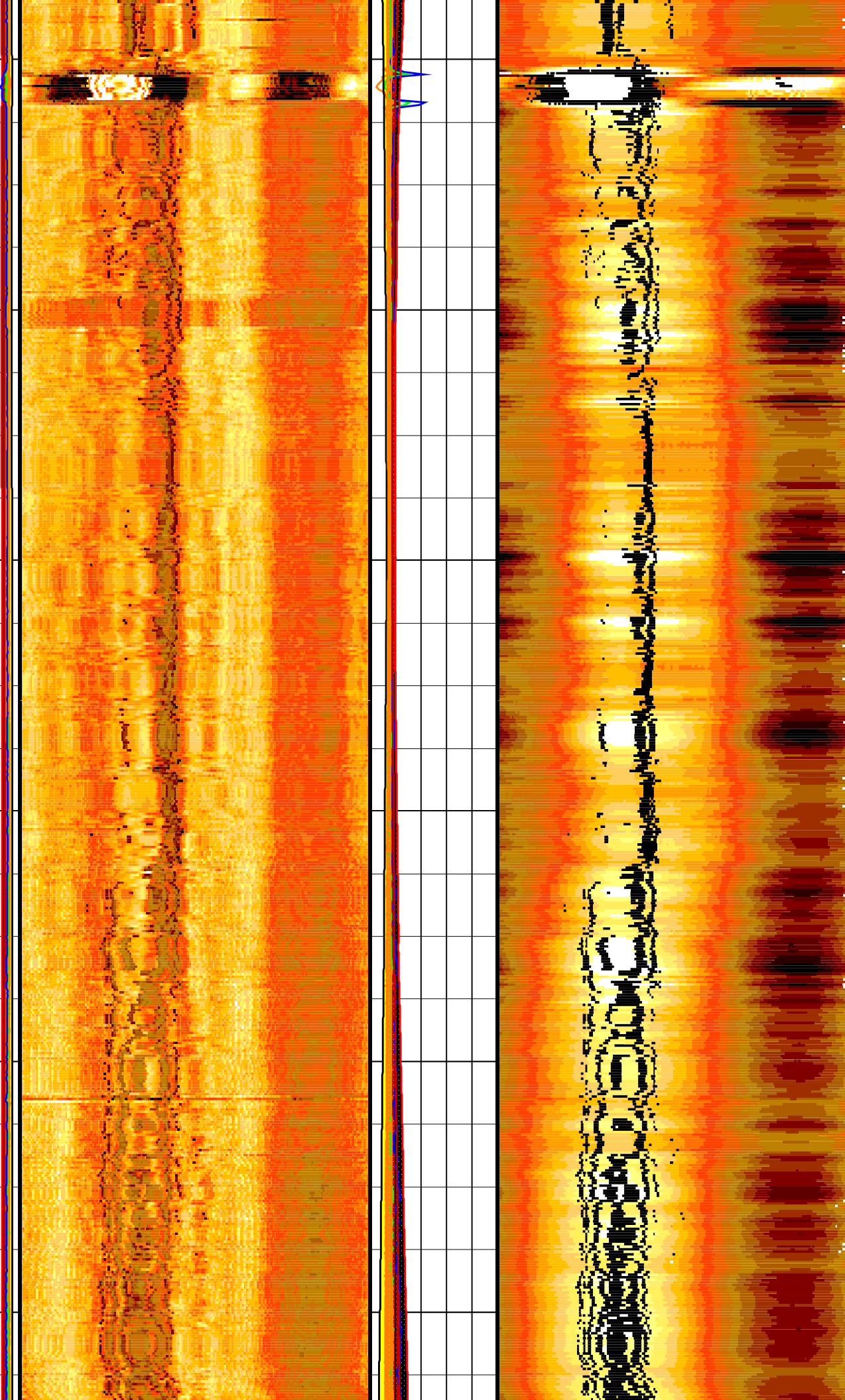
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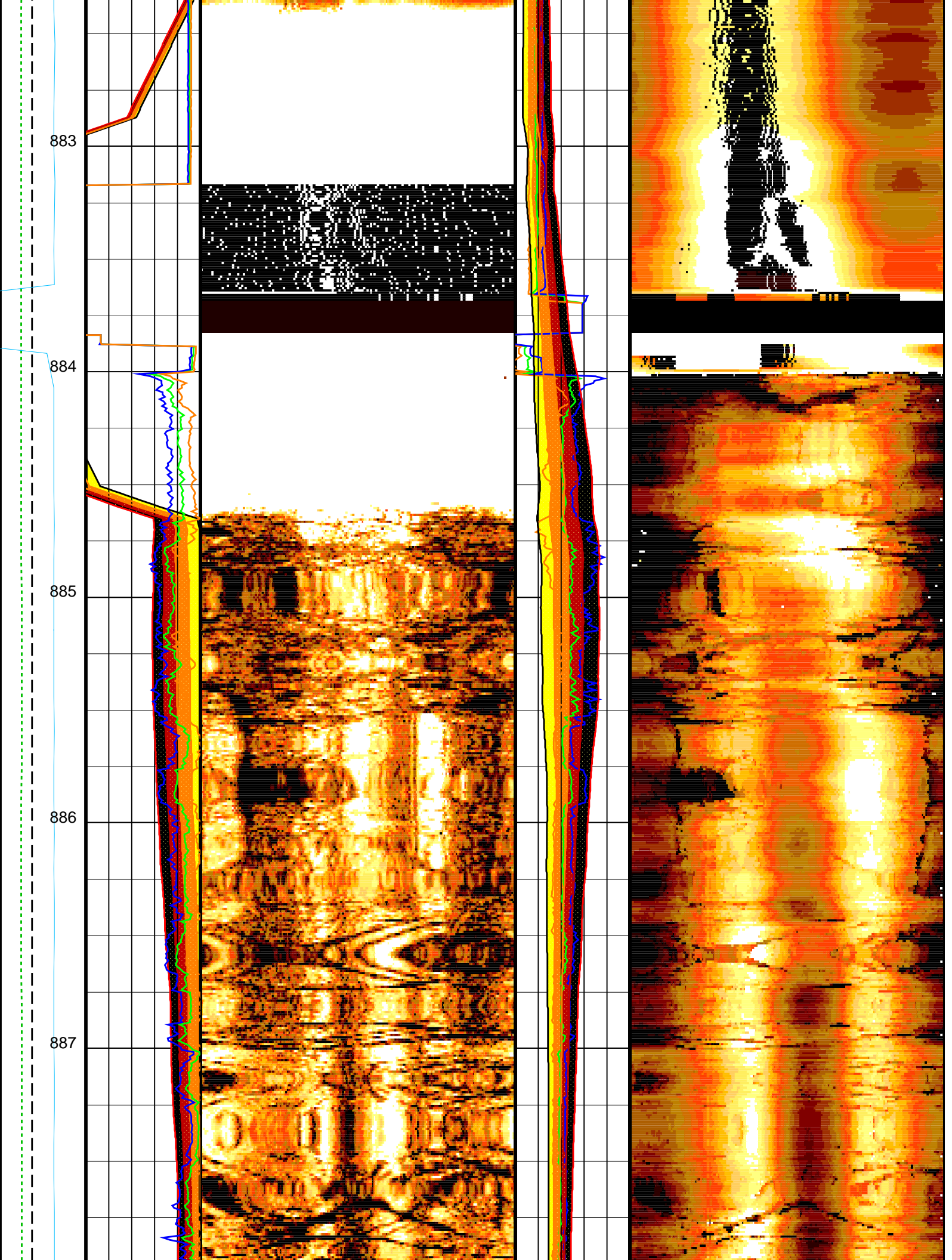
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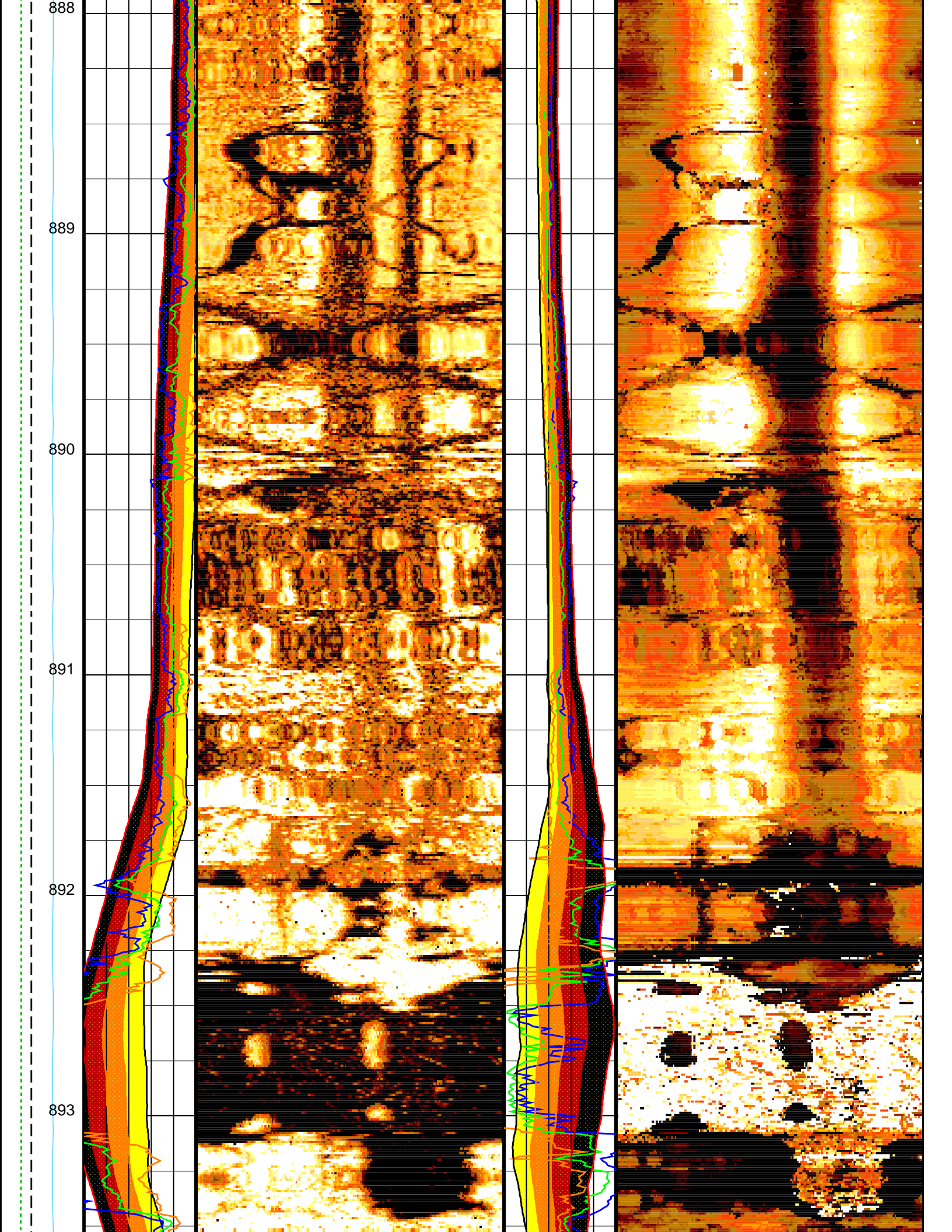
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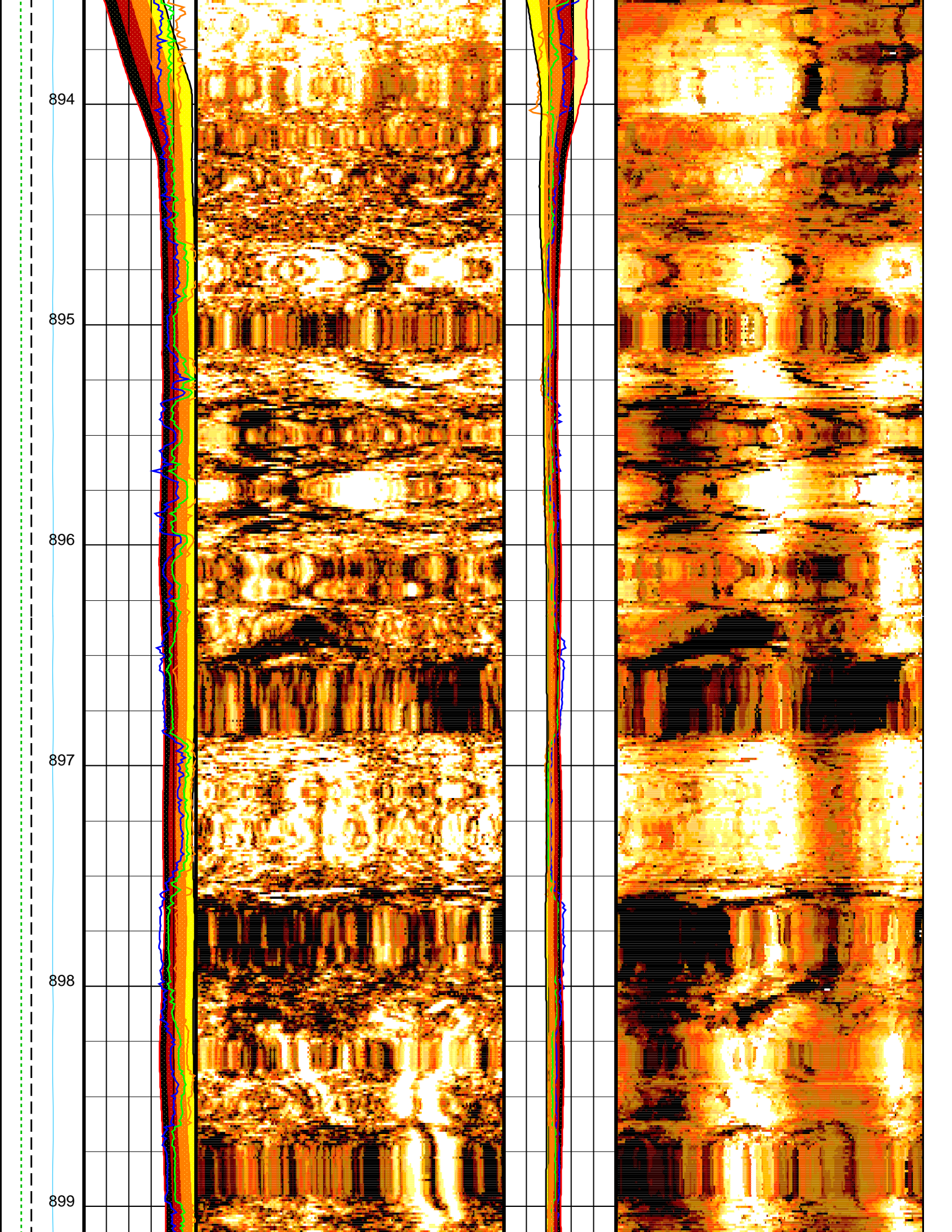
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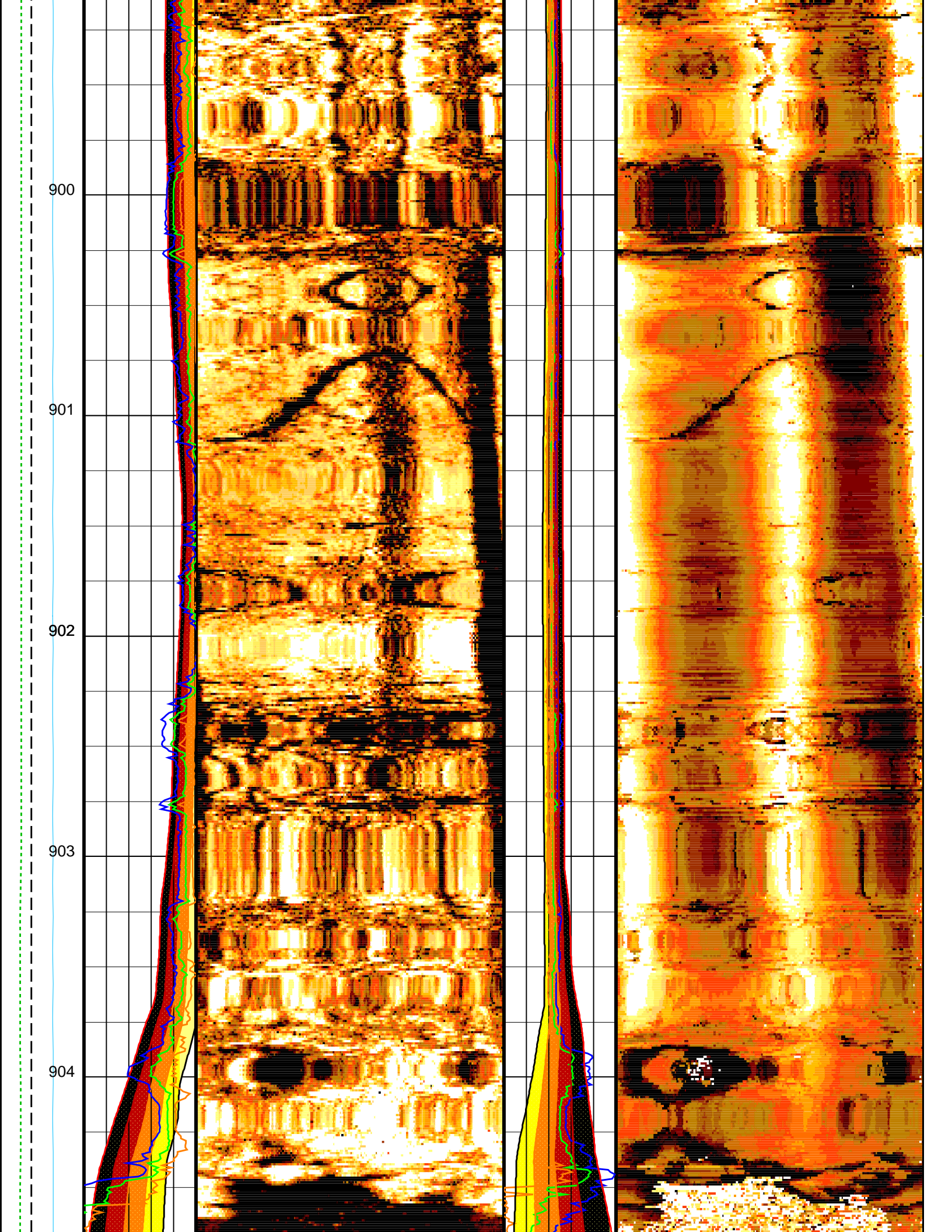
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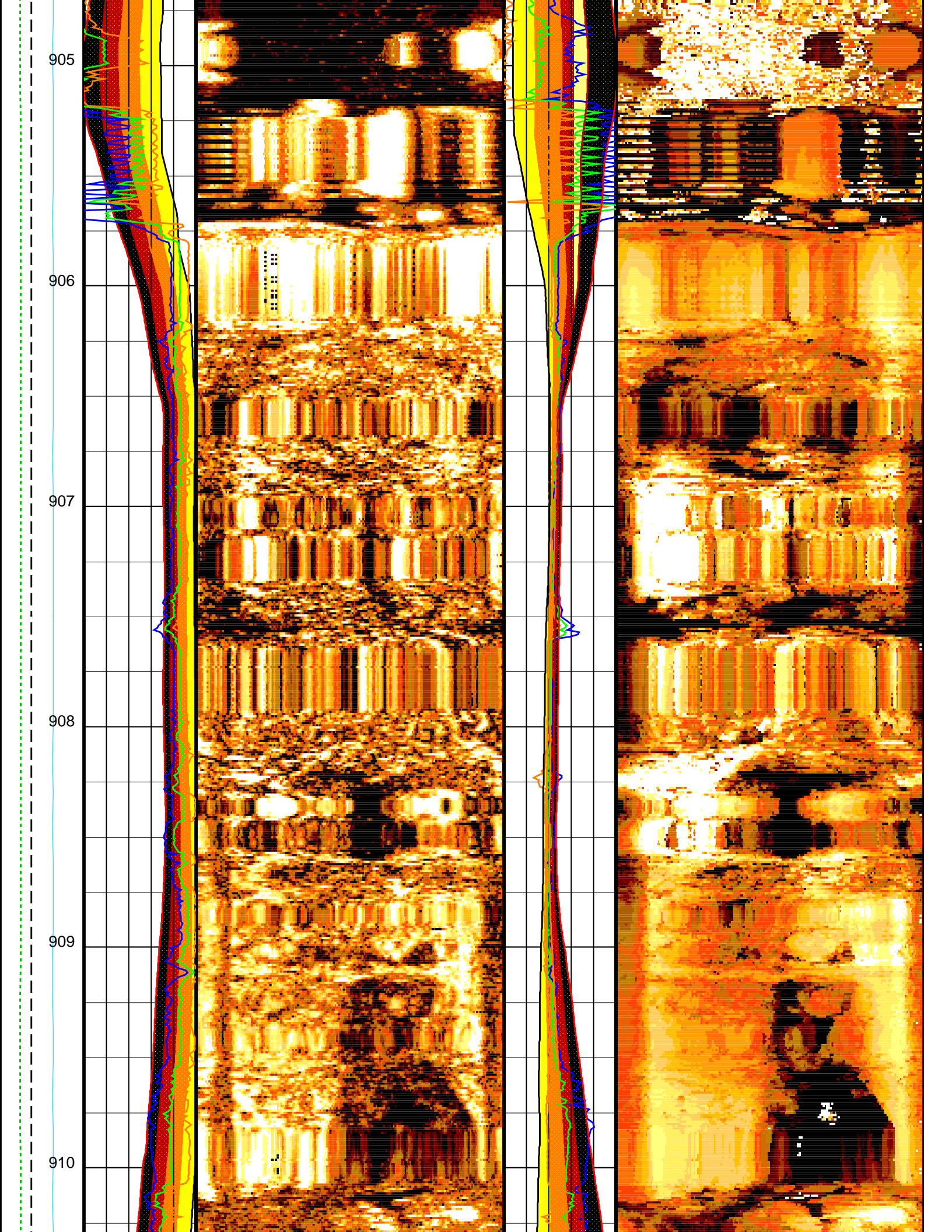


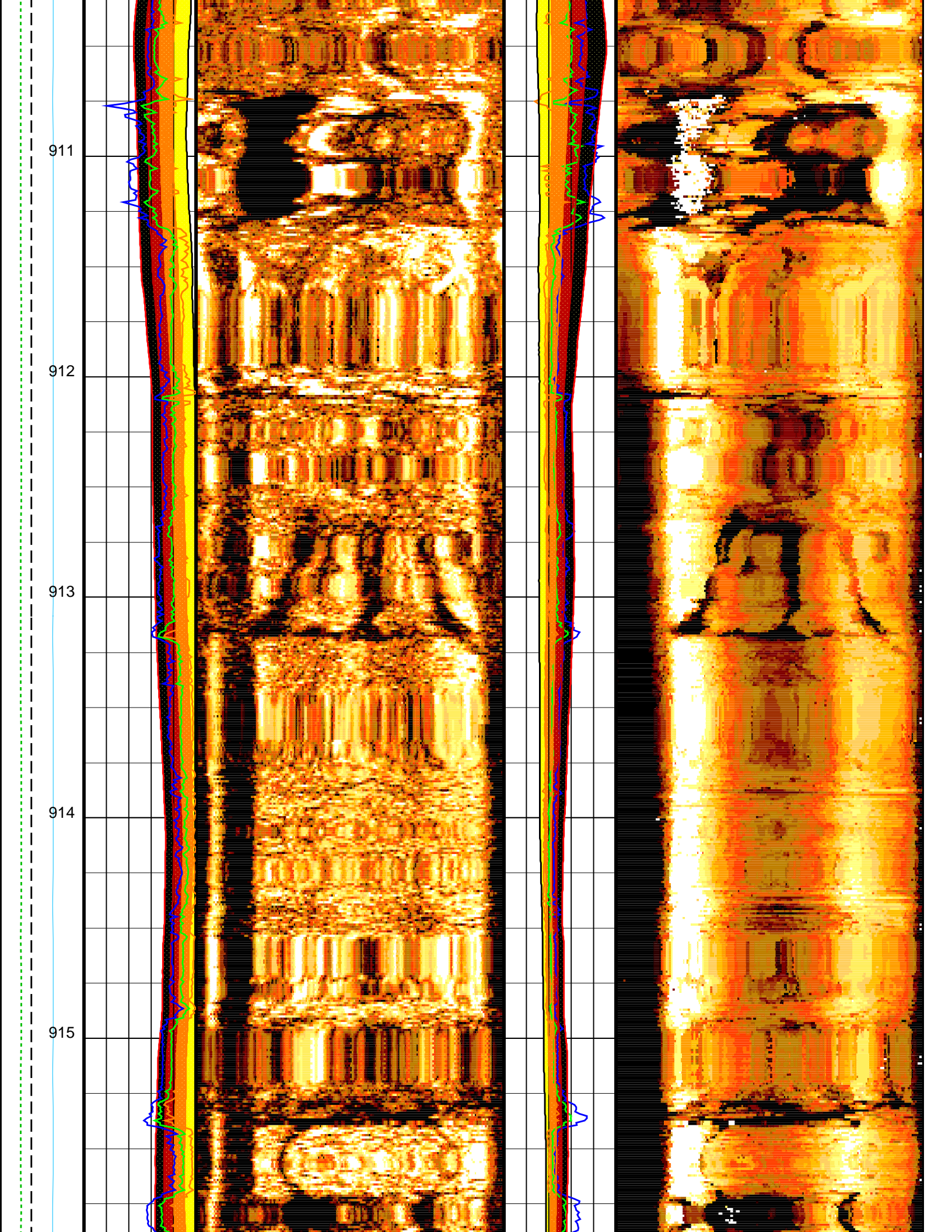


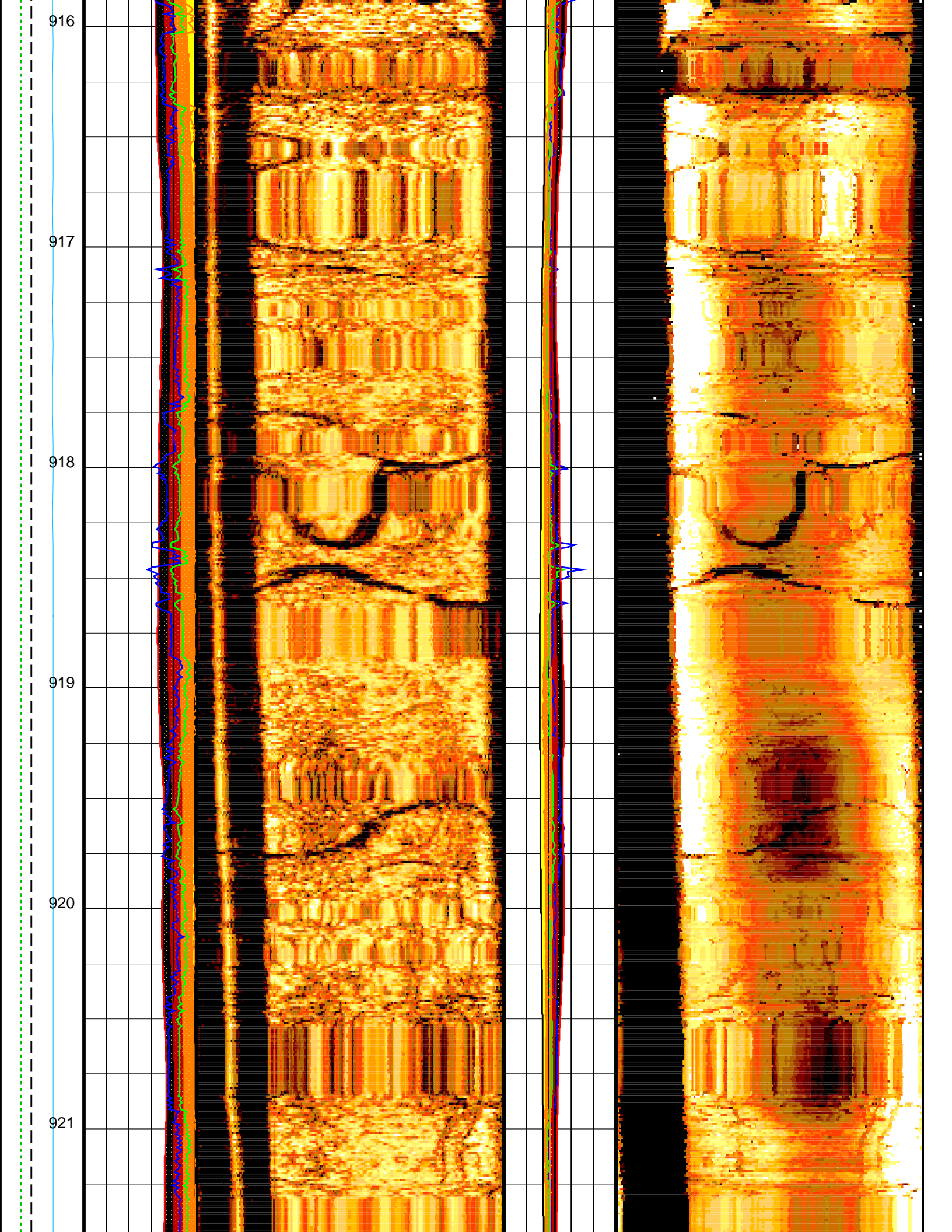


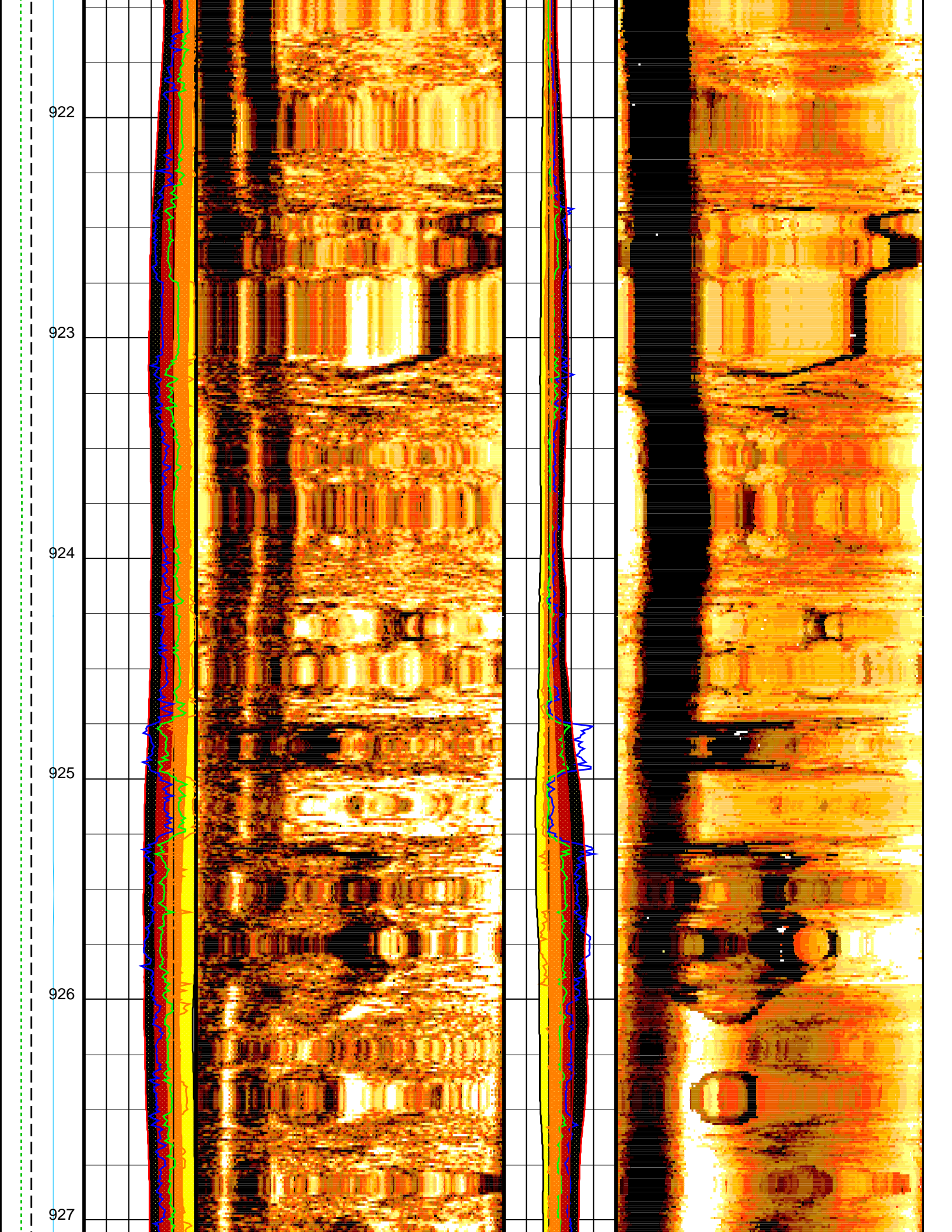


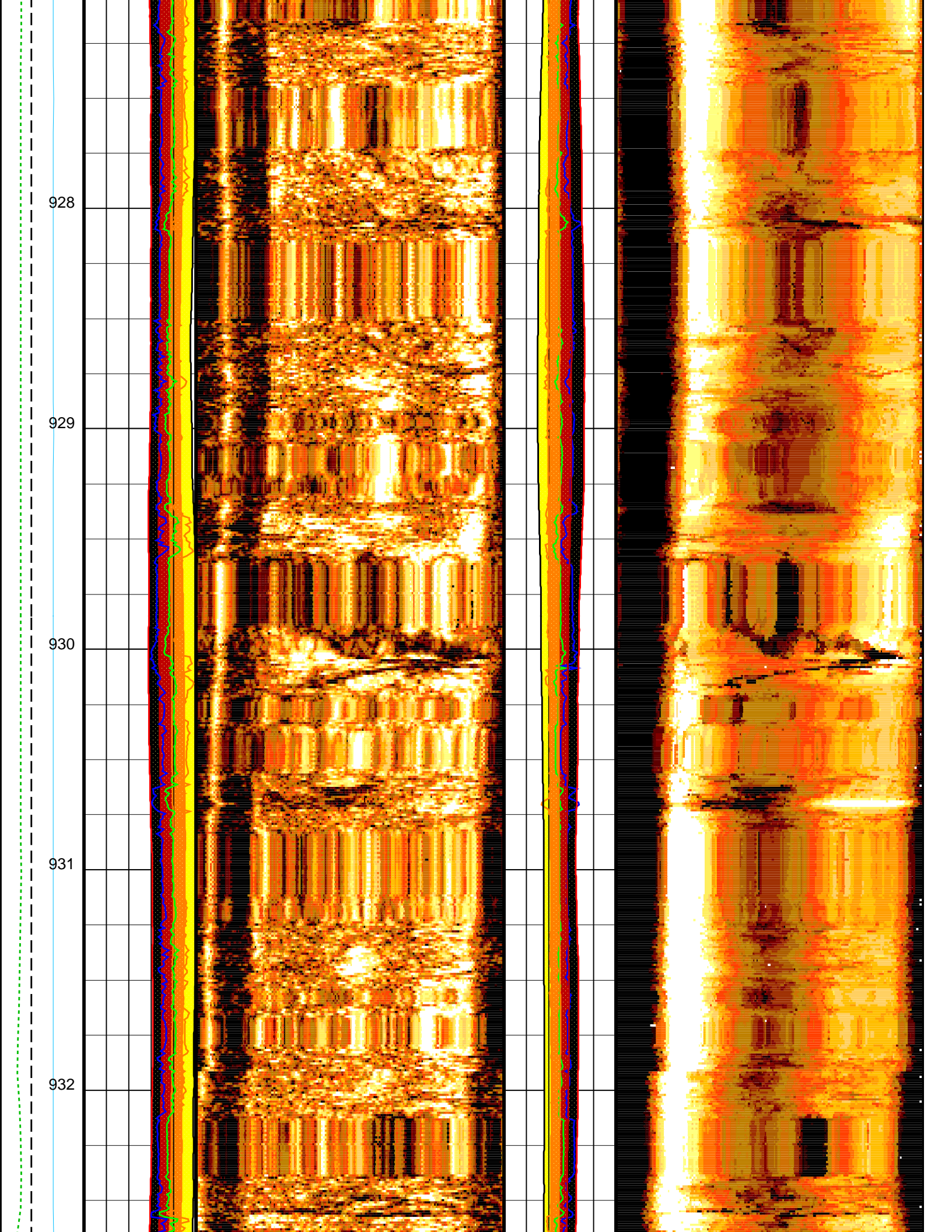


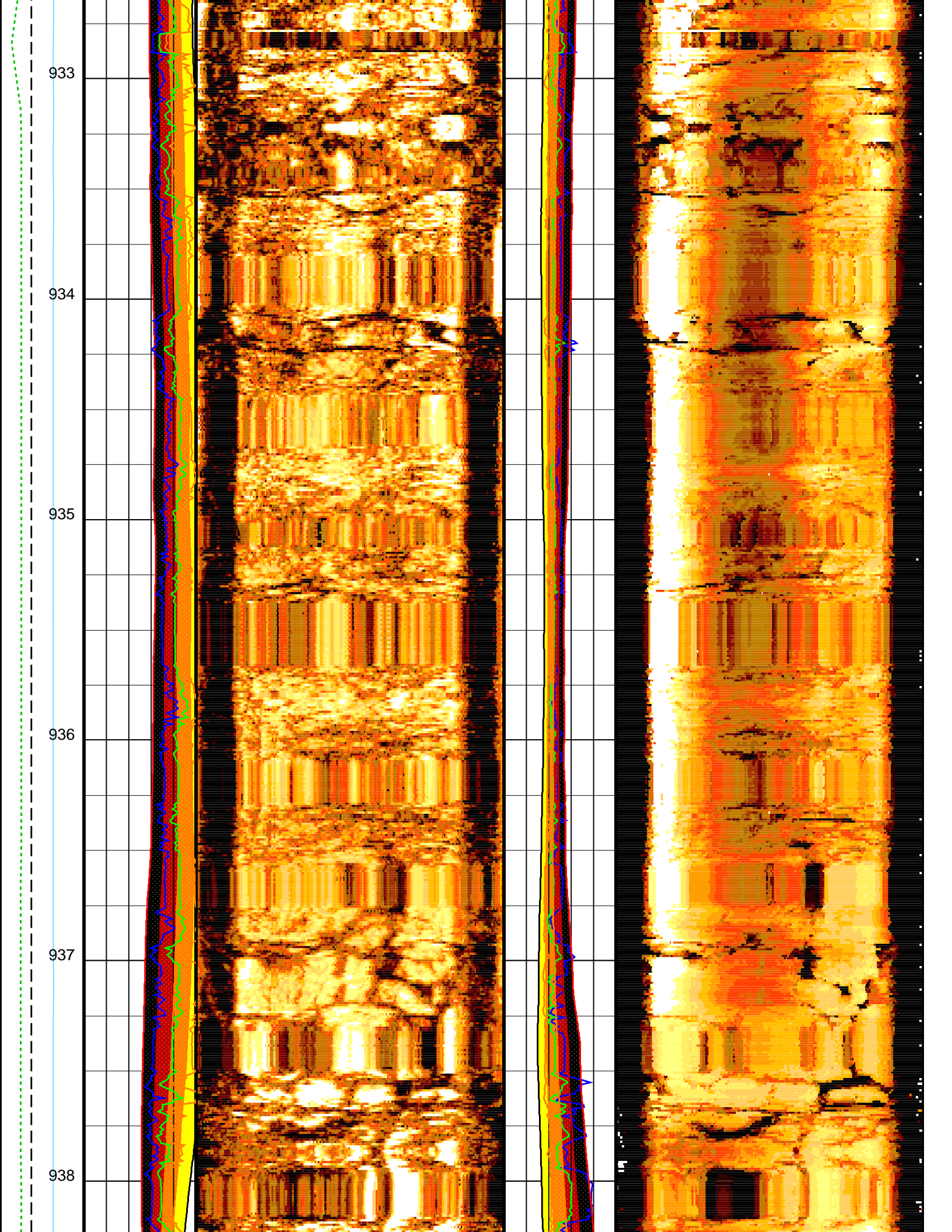


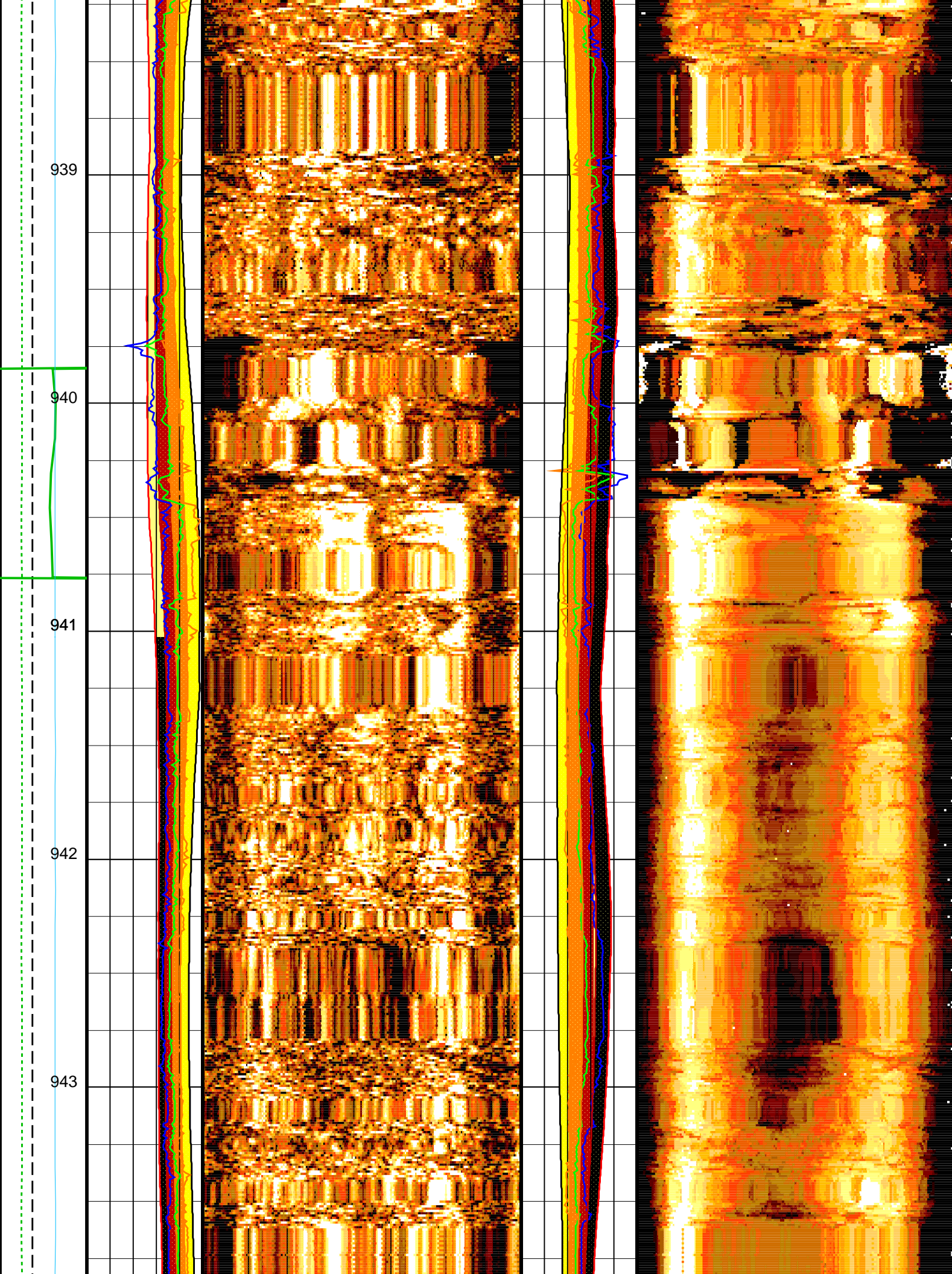












944

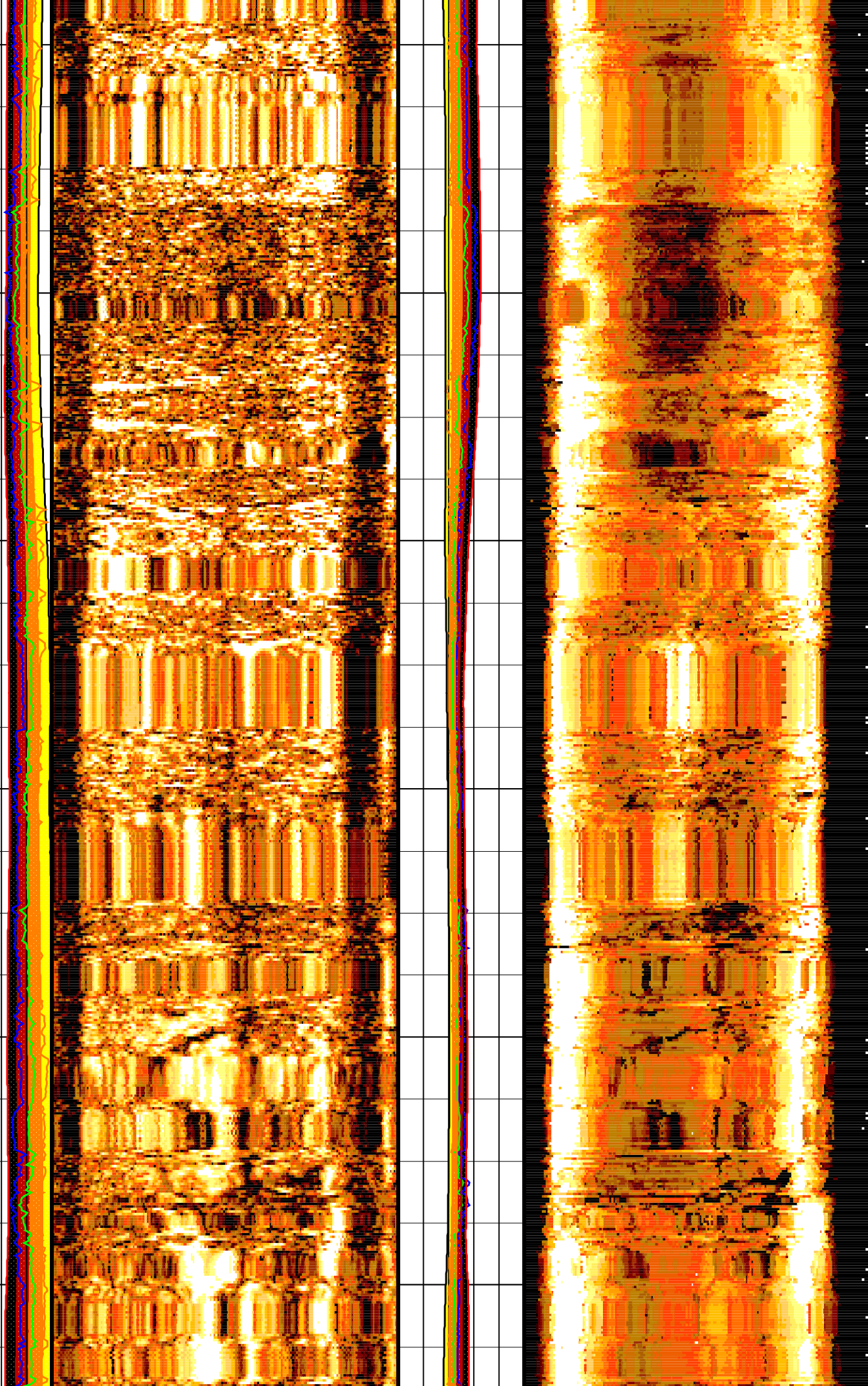
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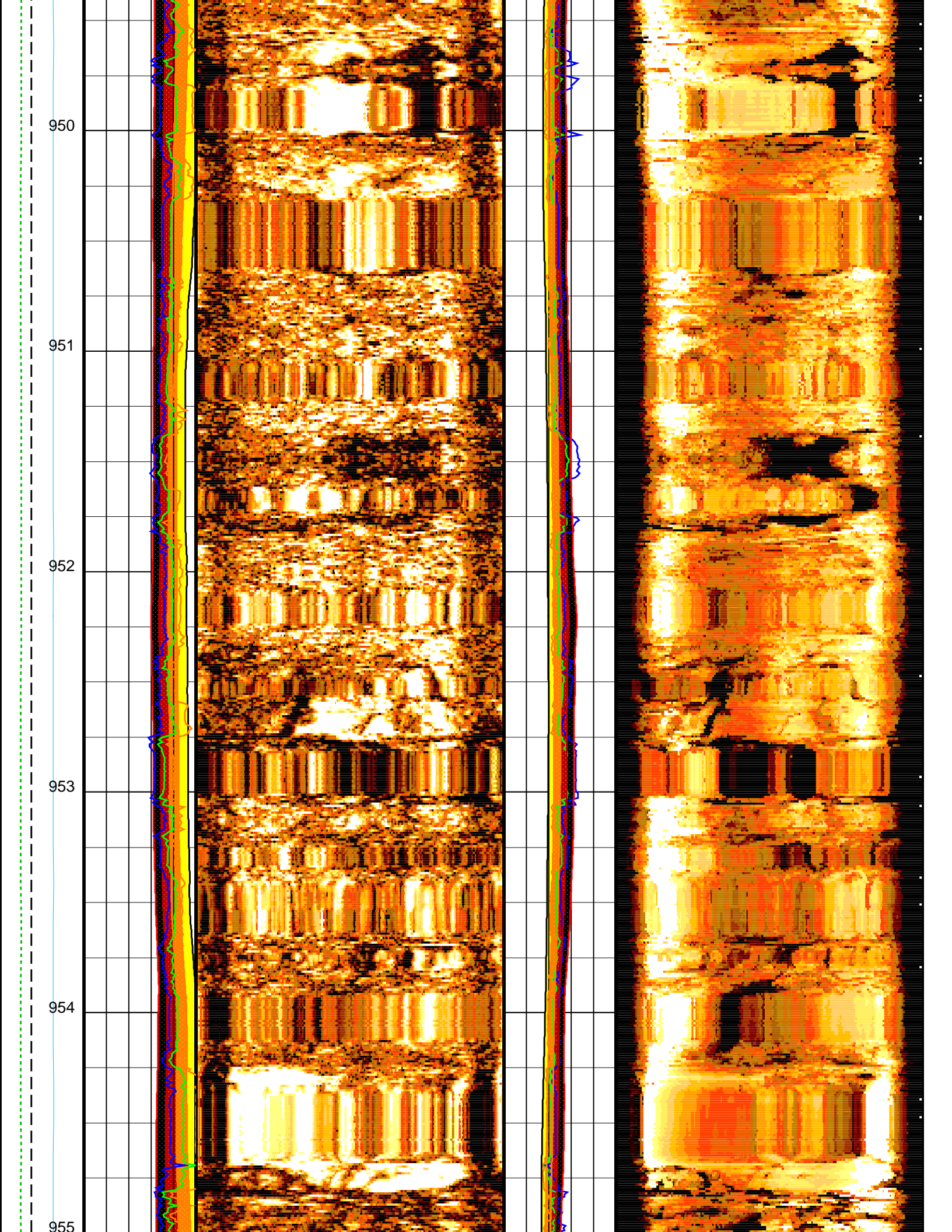
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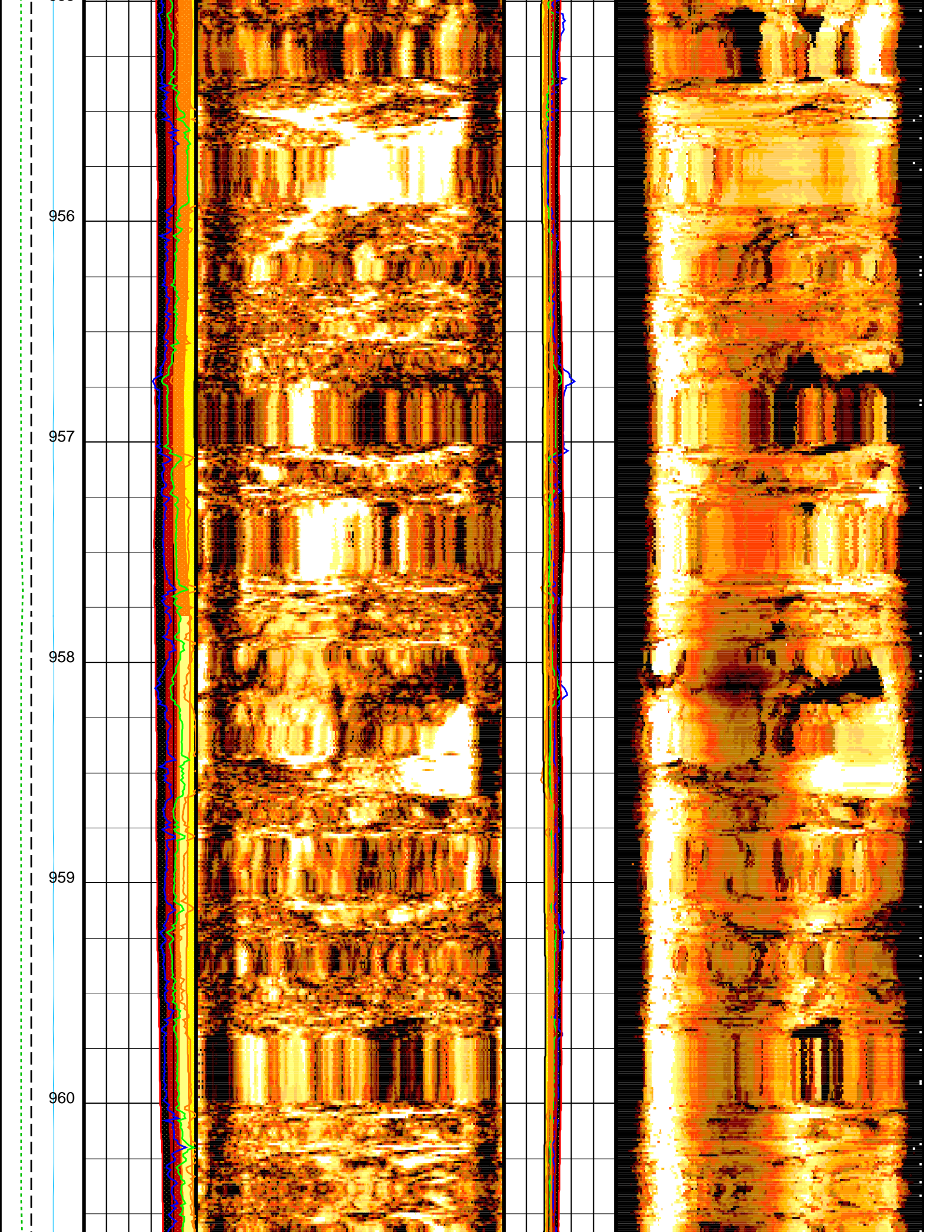
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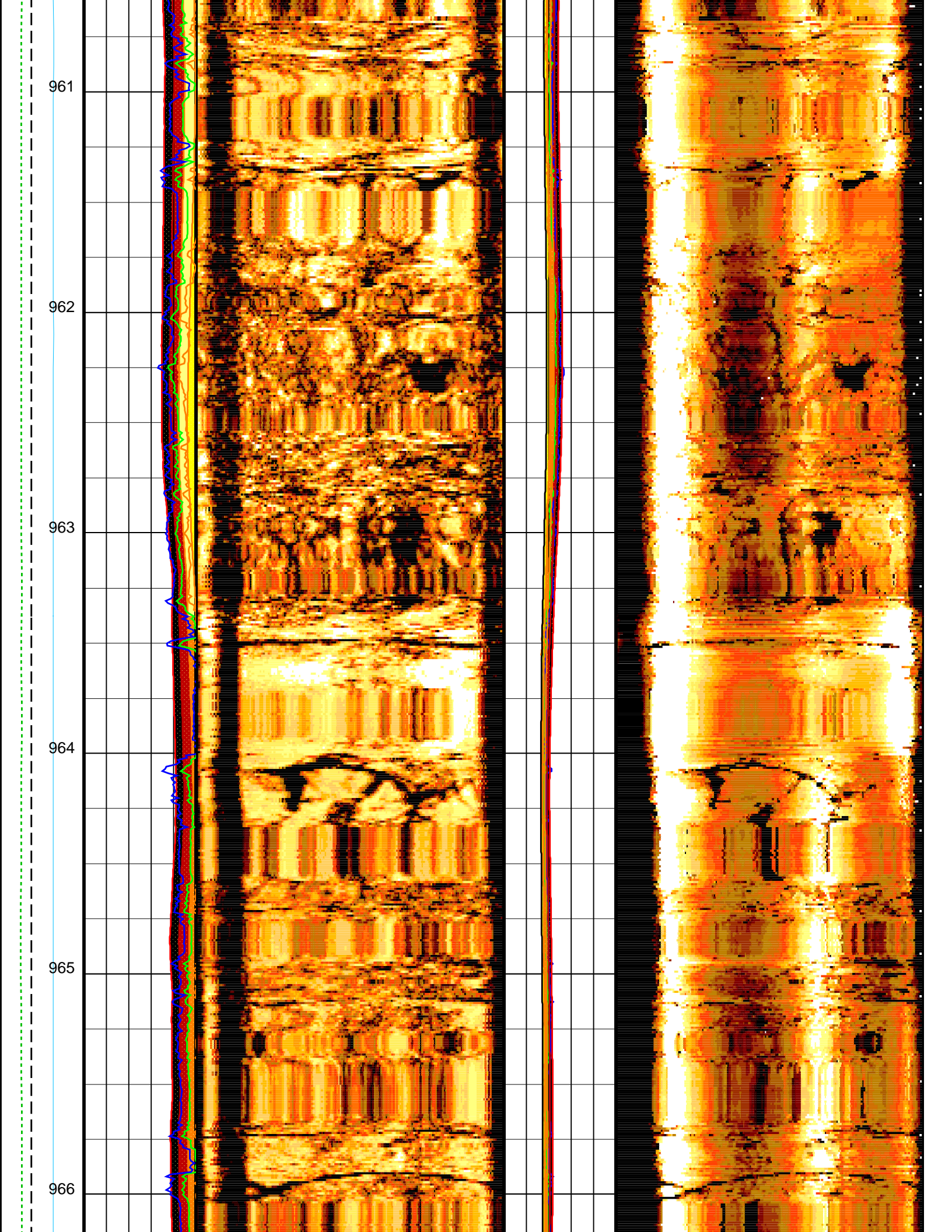
948

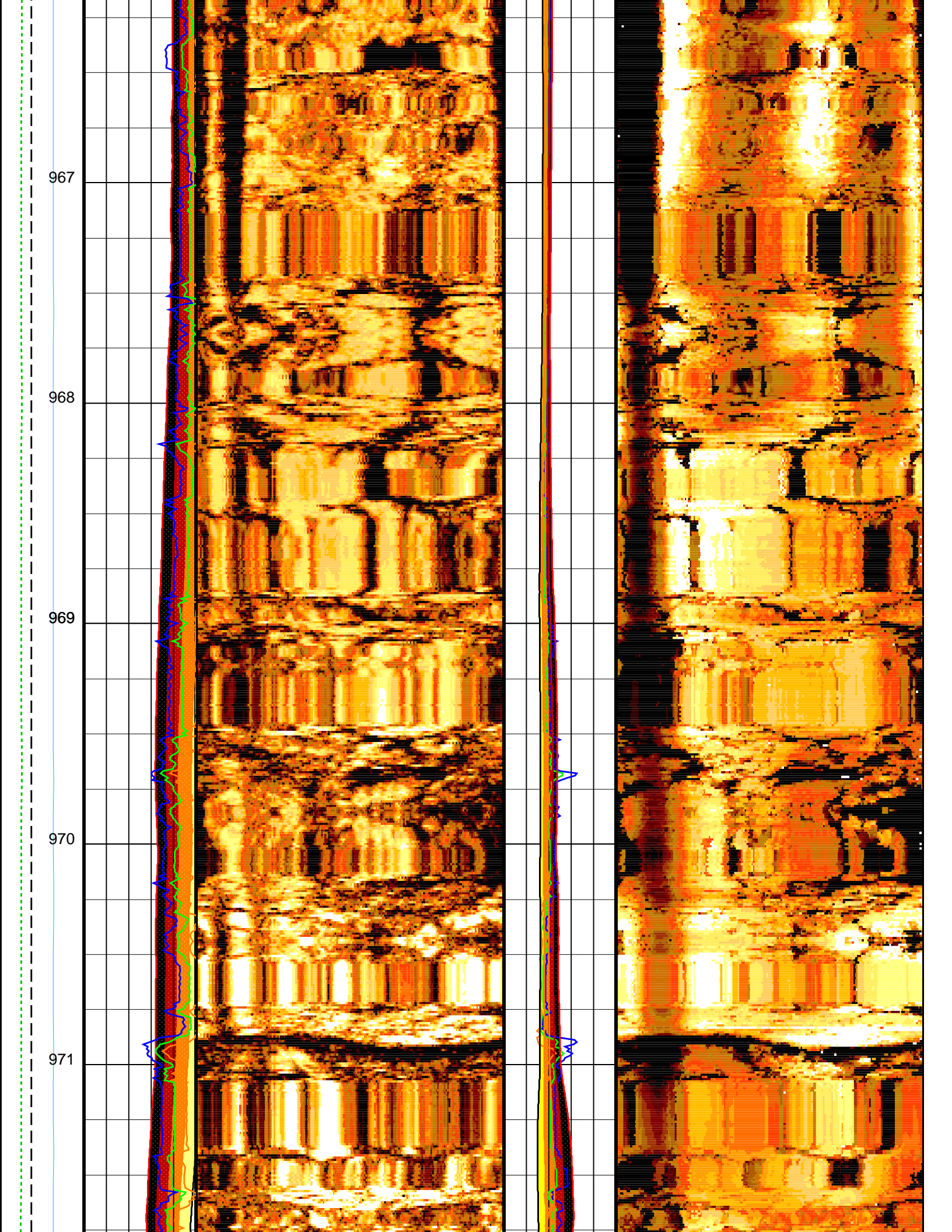
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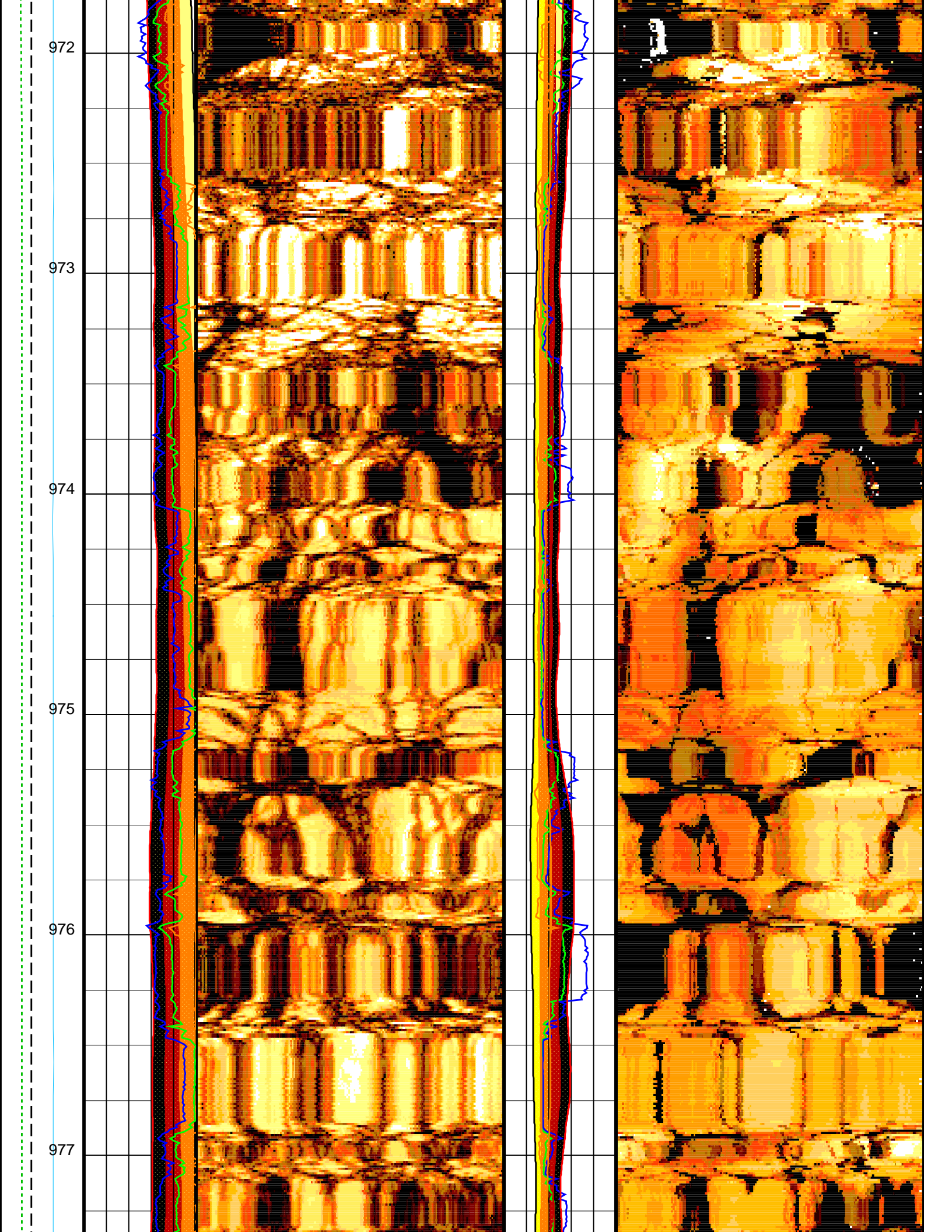


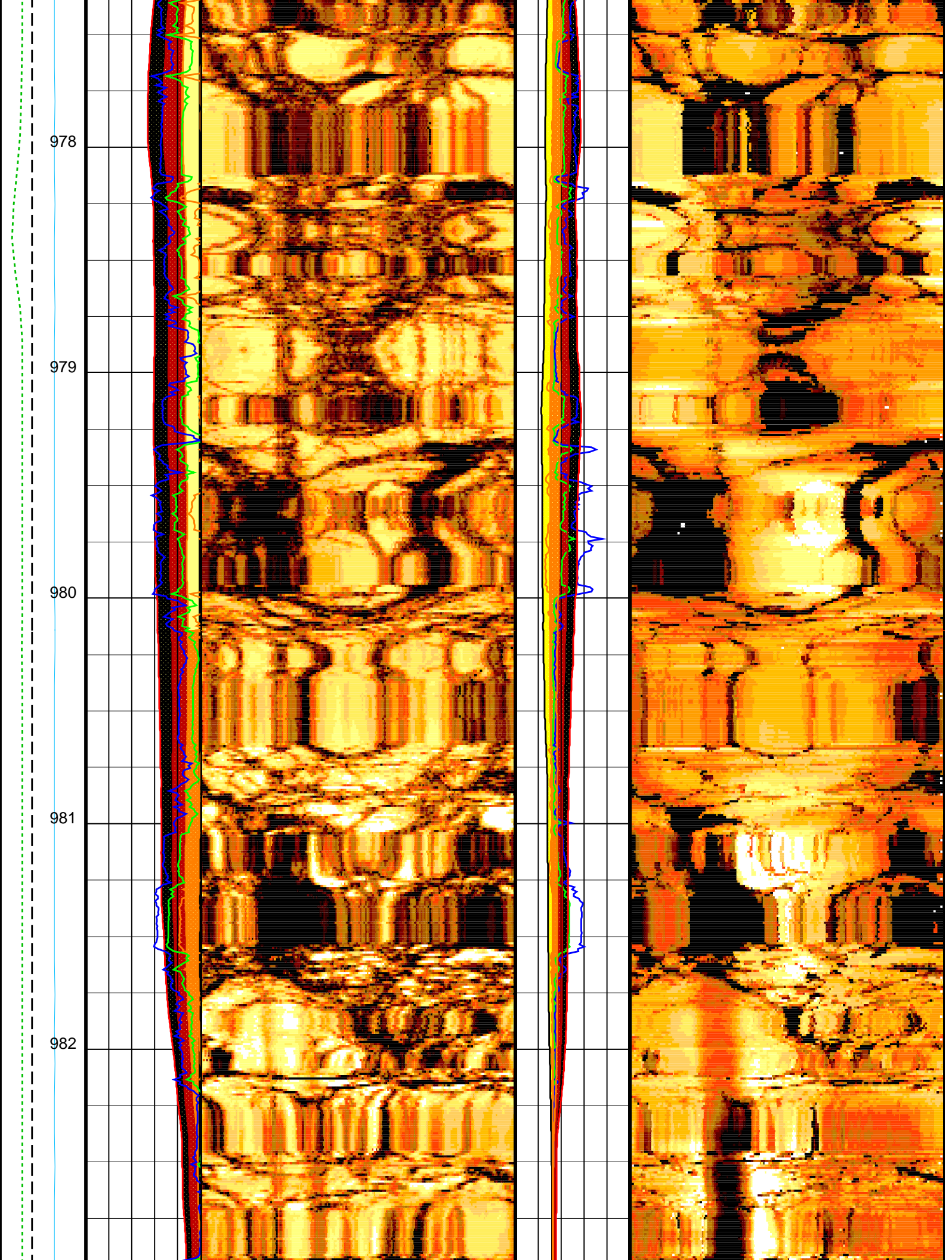


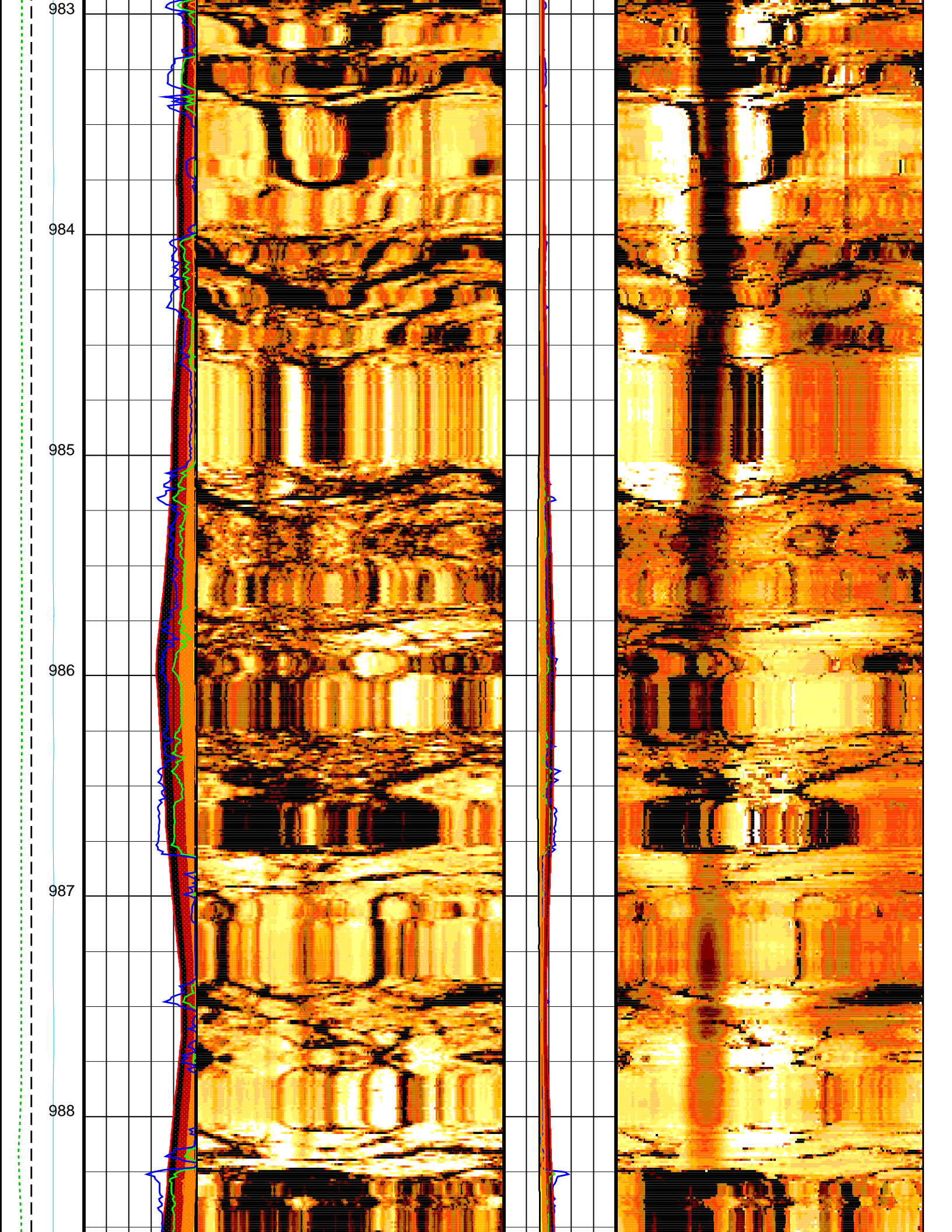


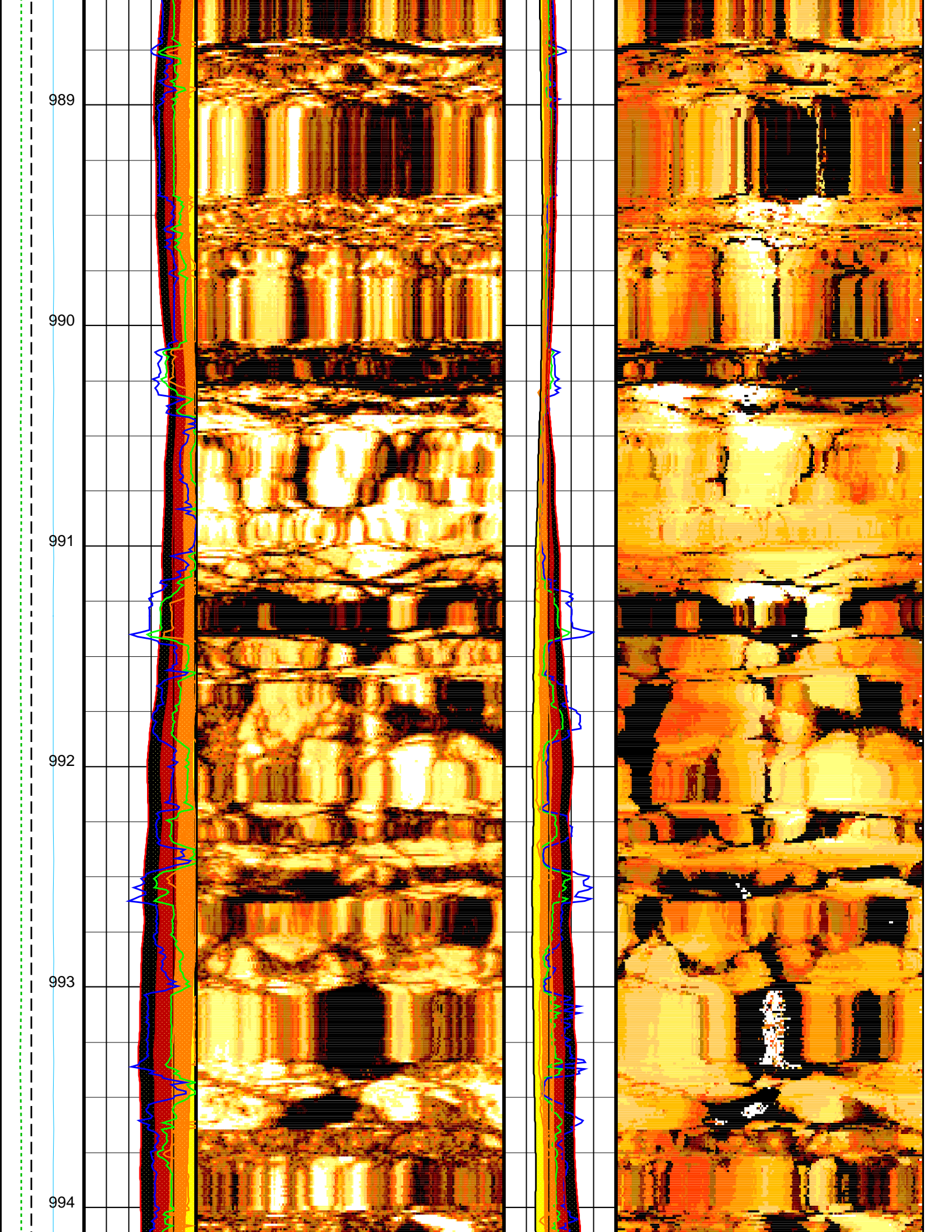


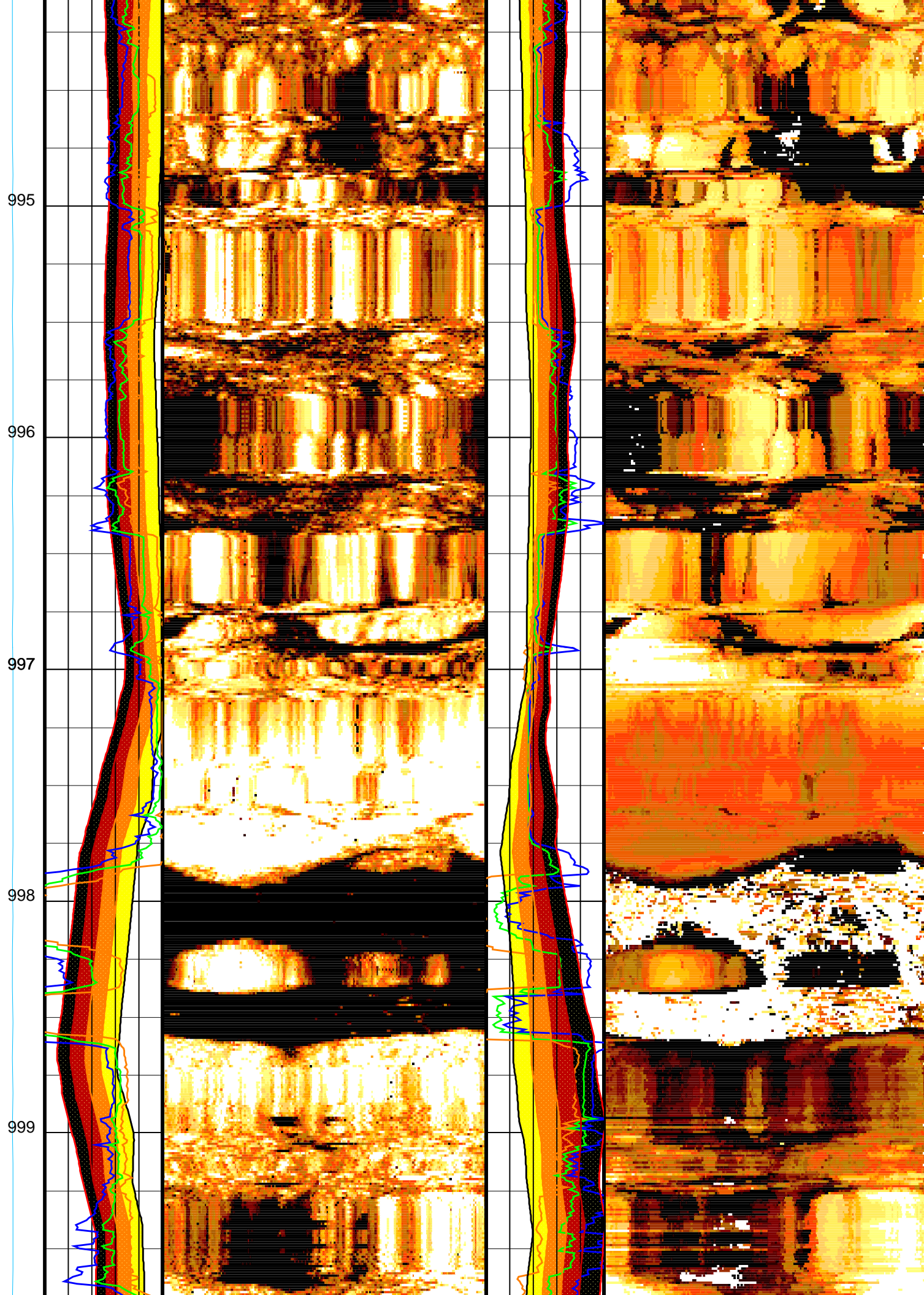


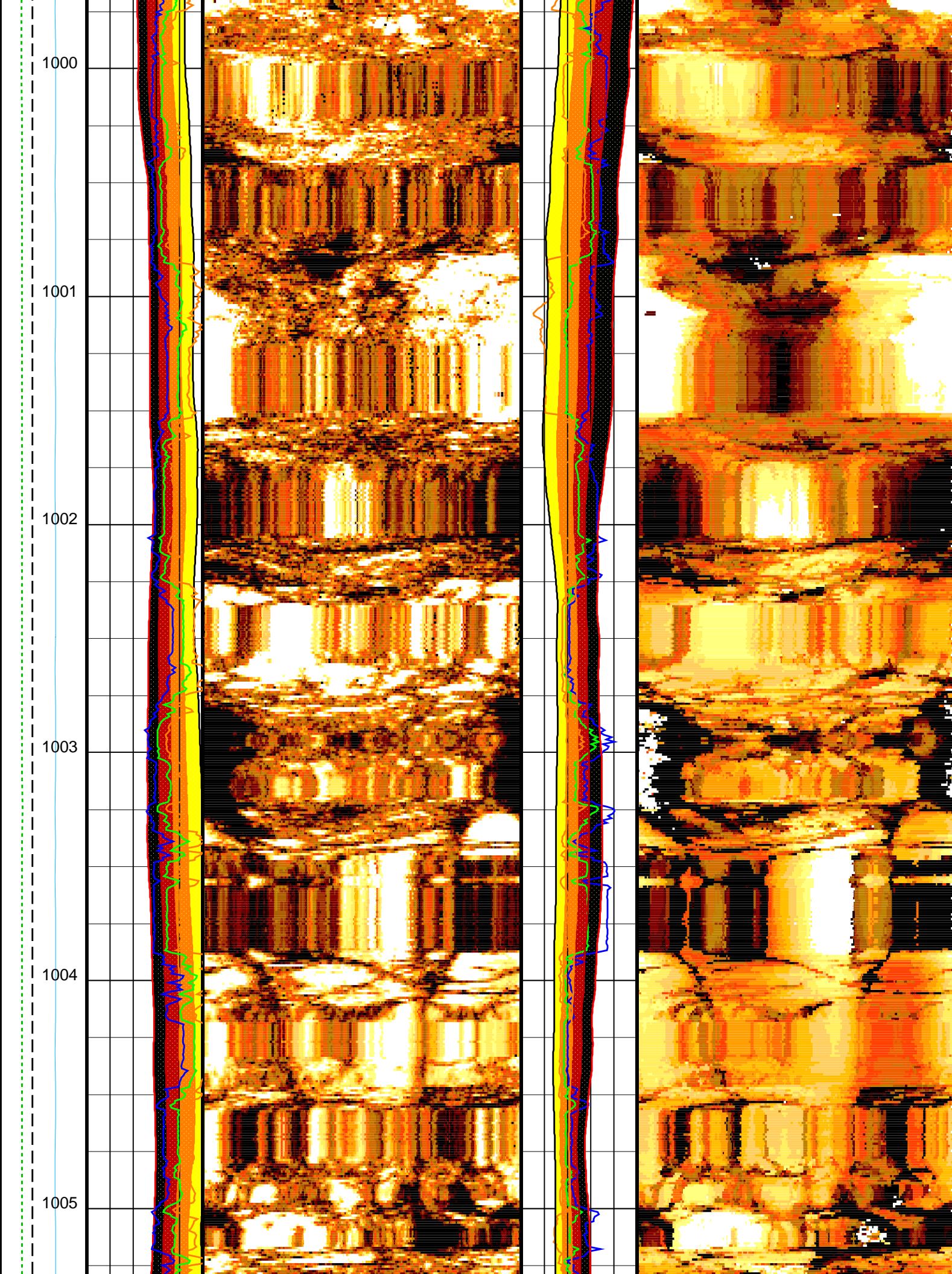


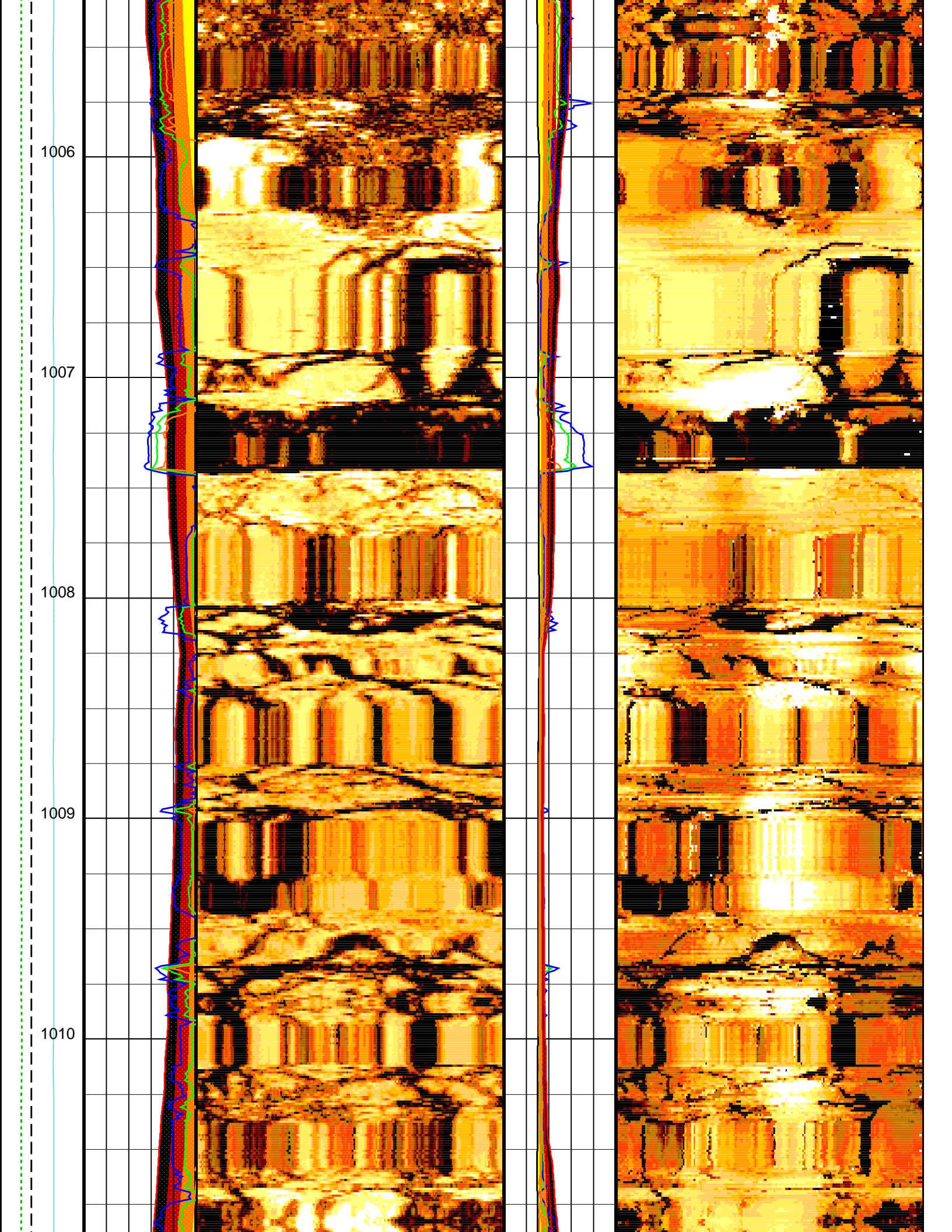


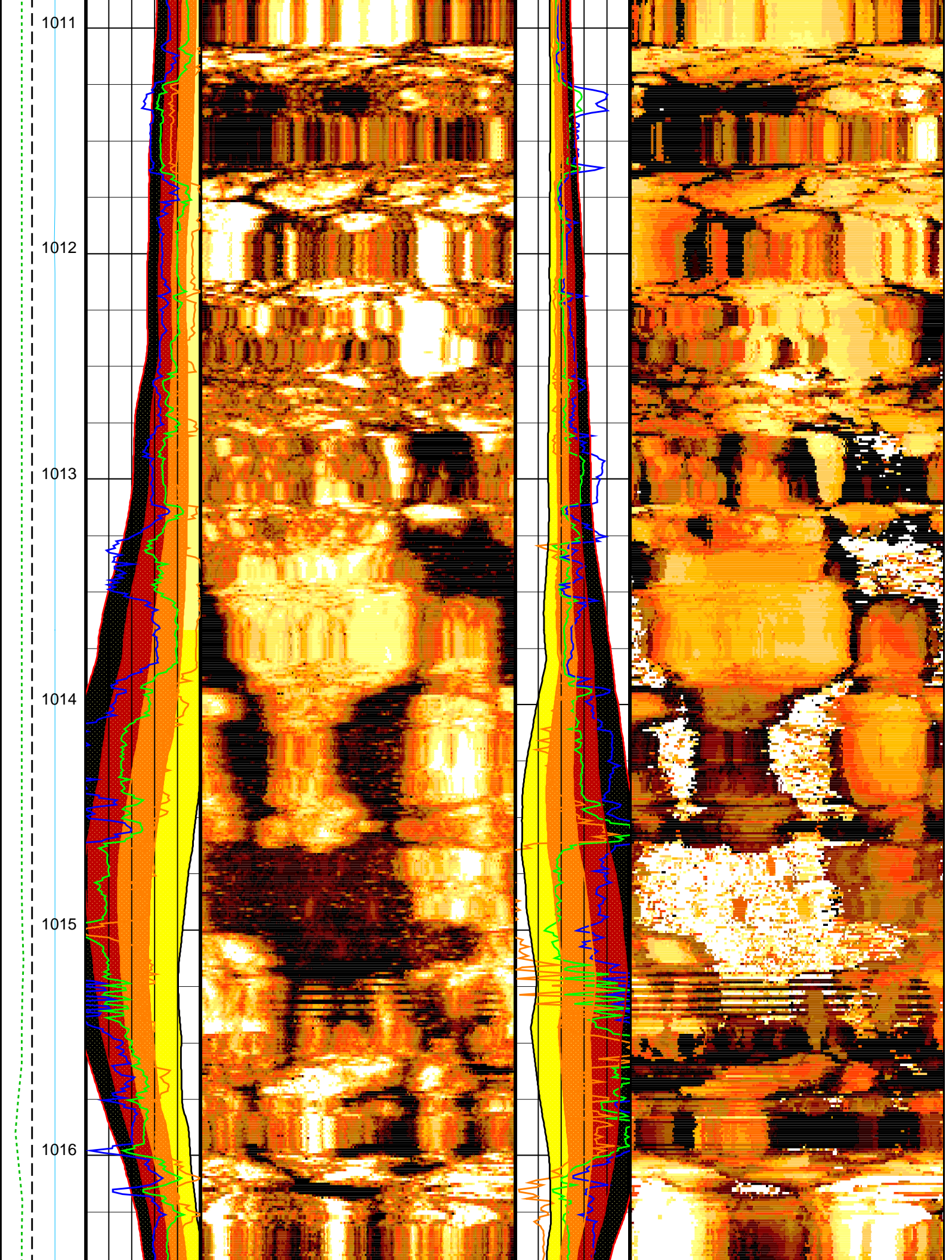


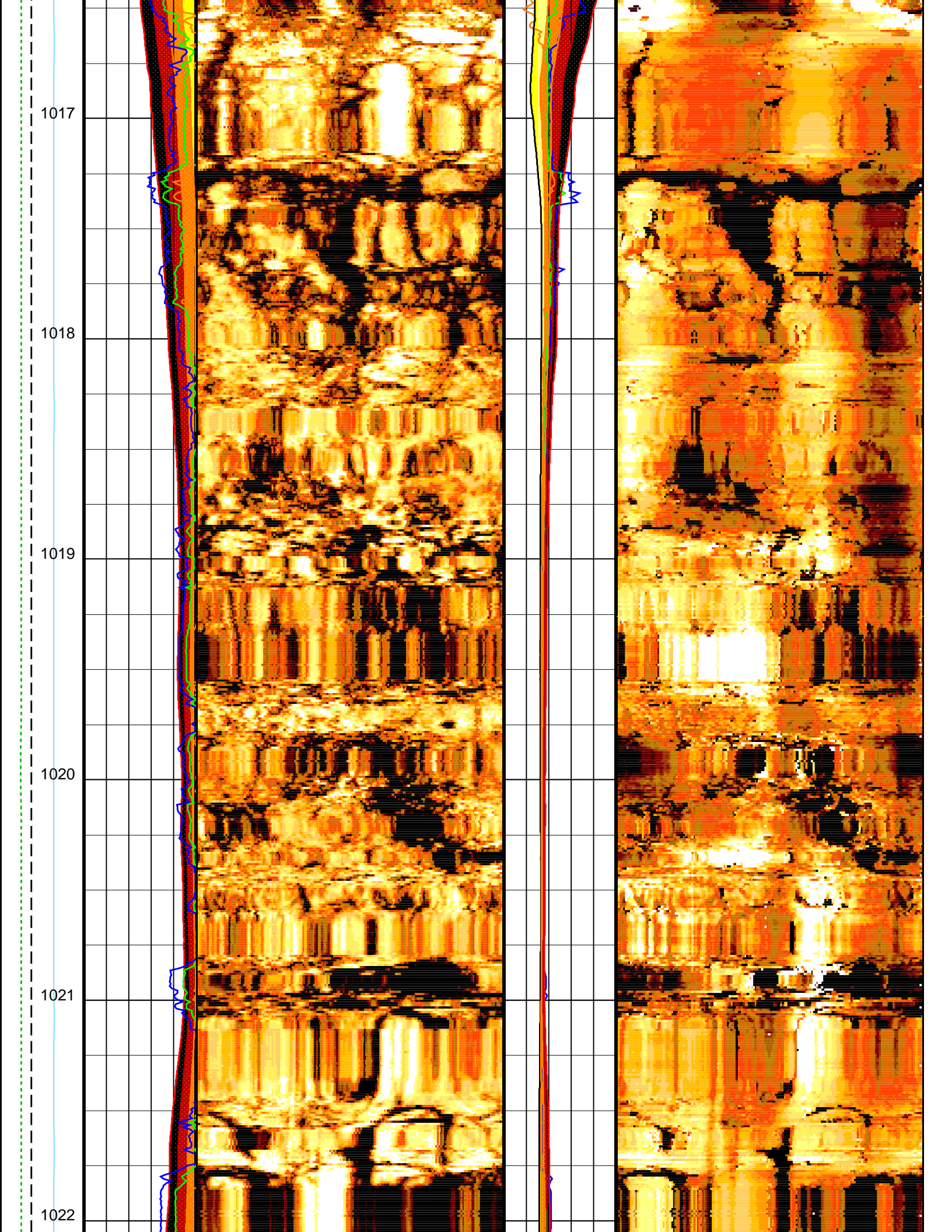


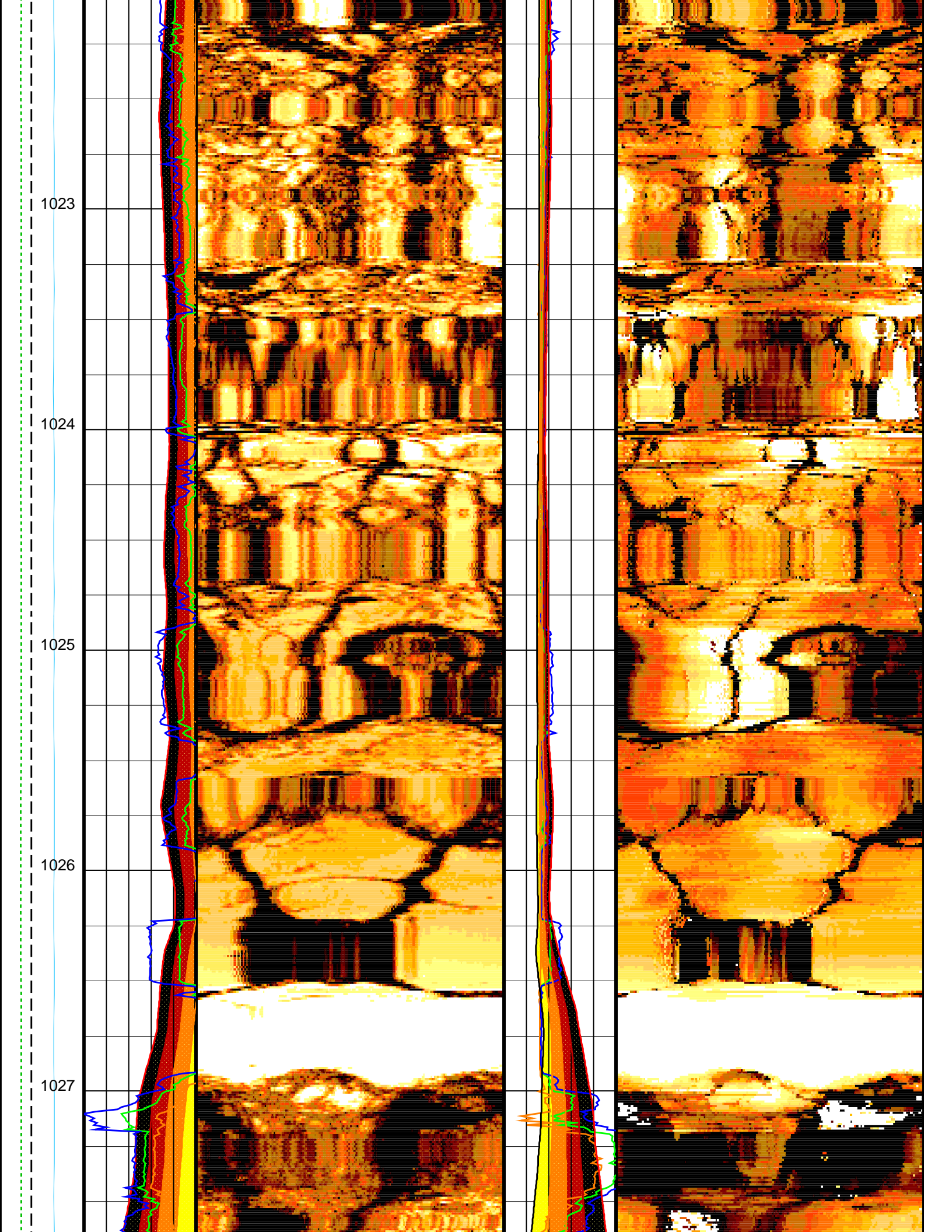


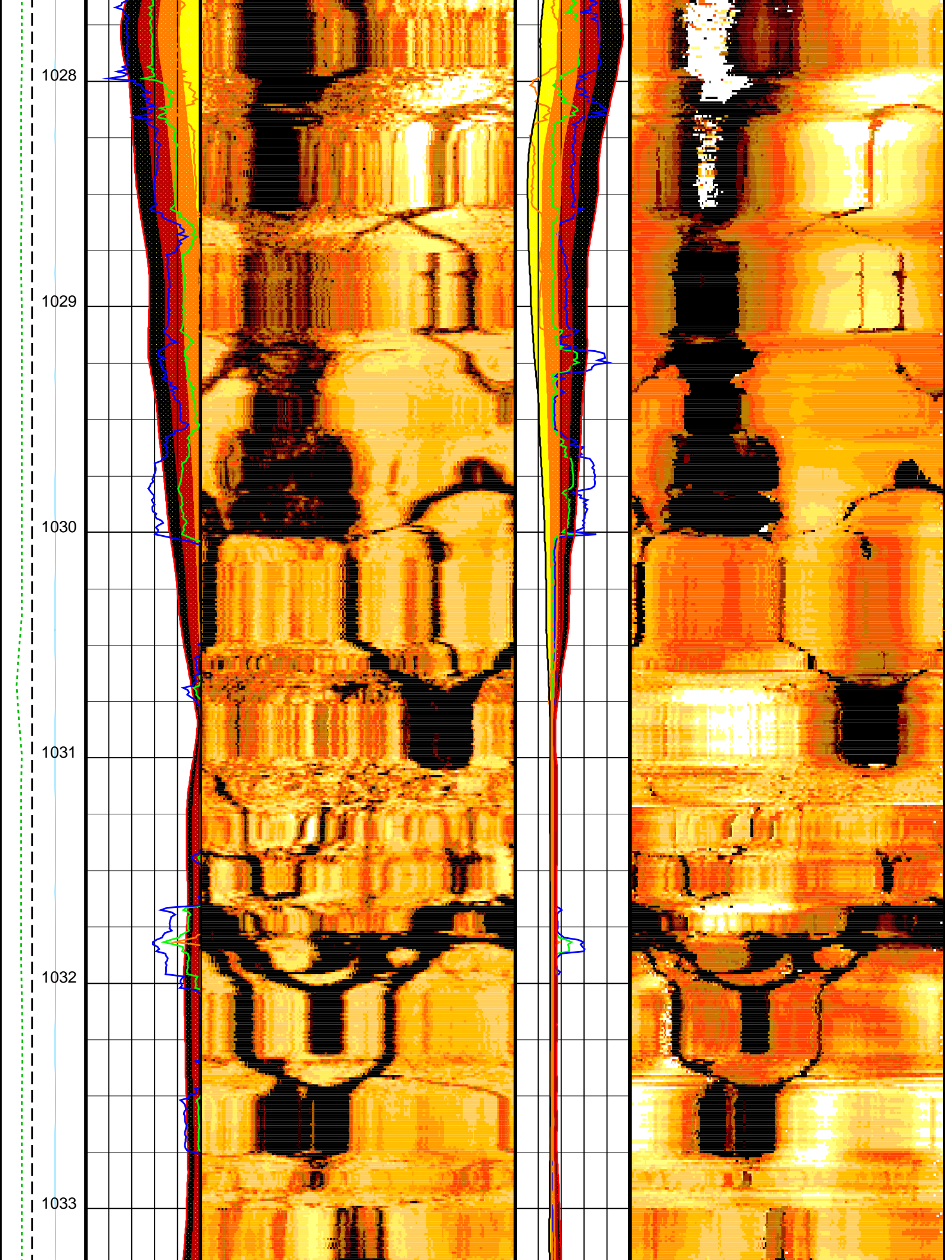


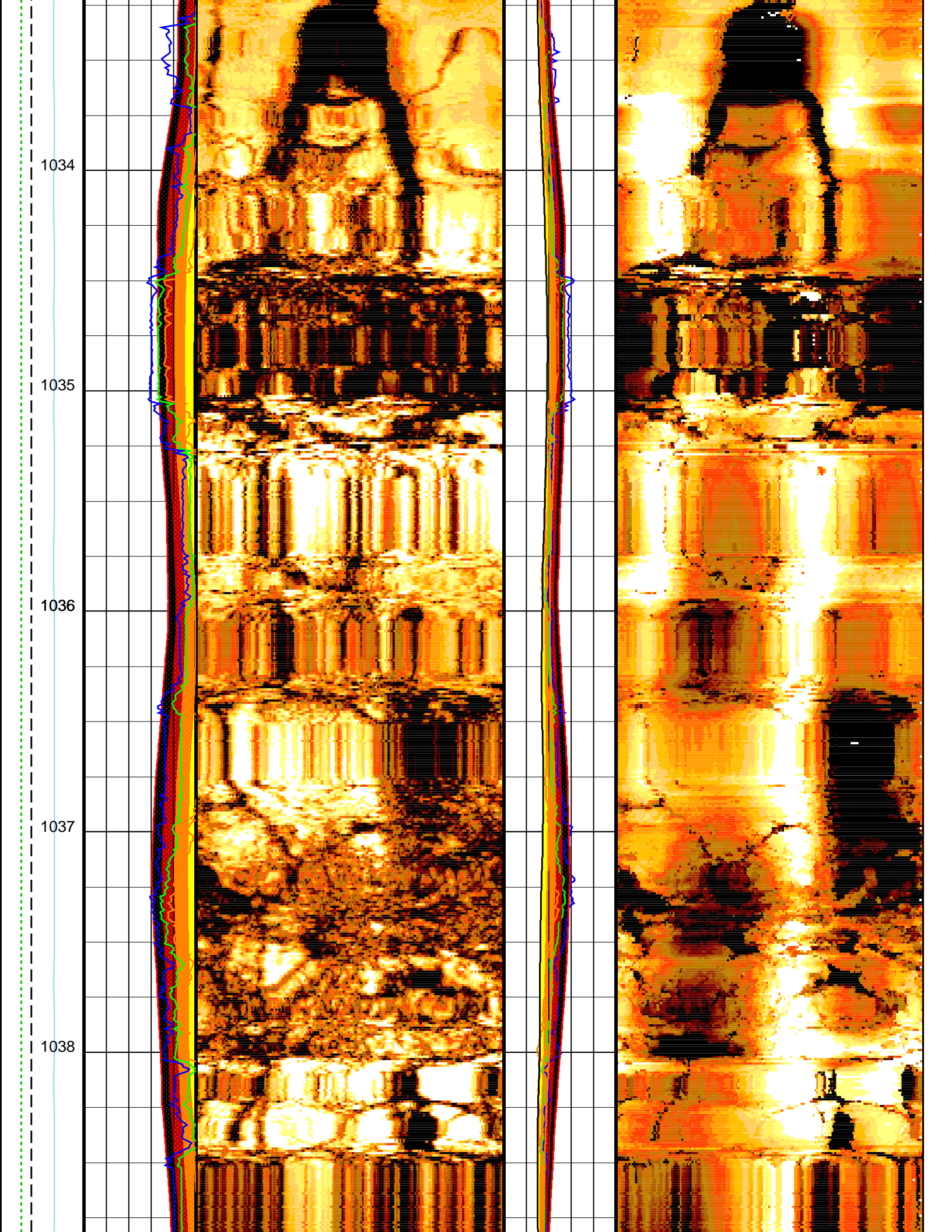


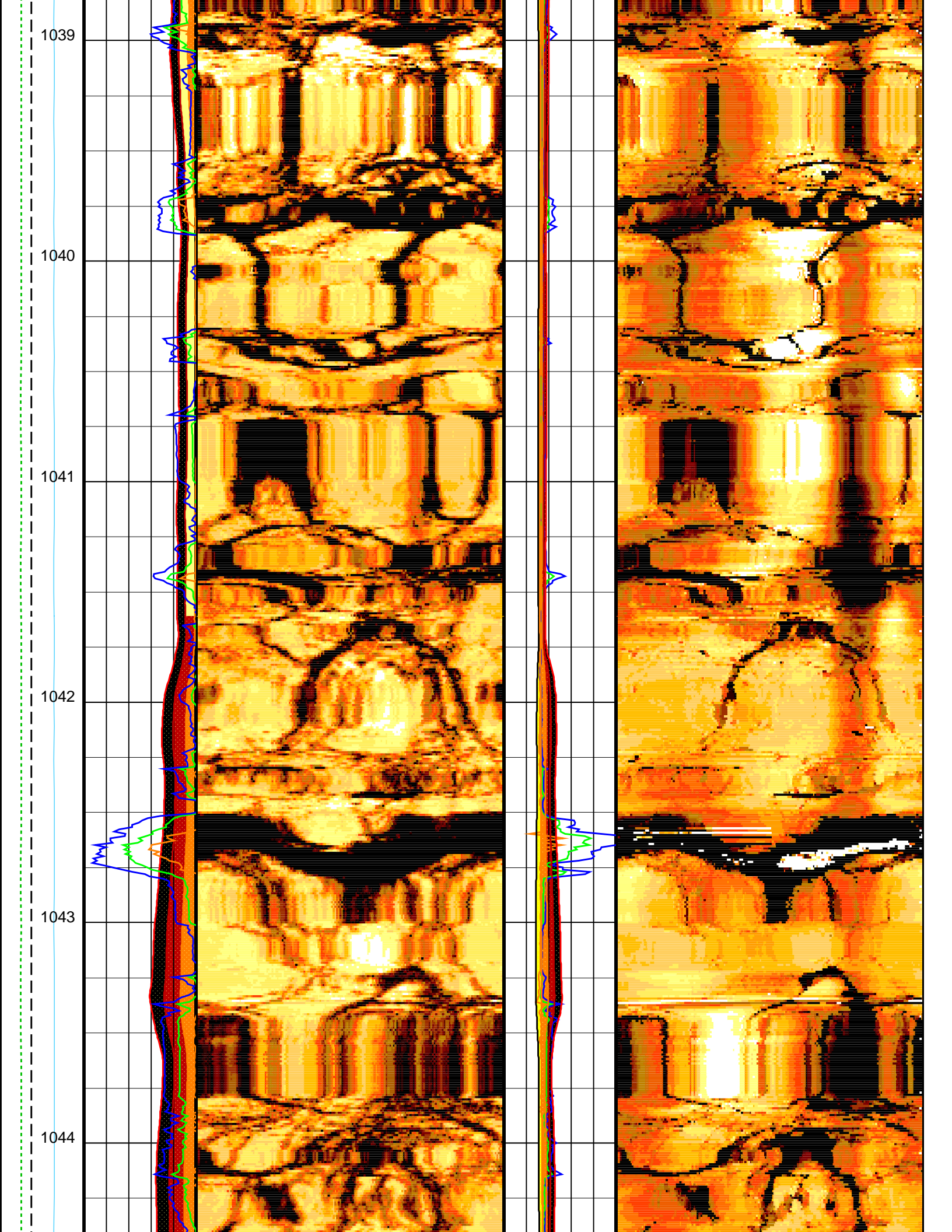


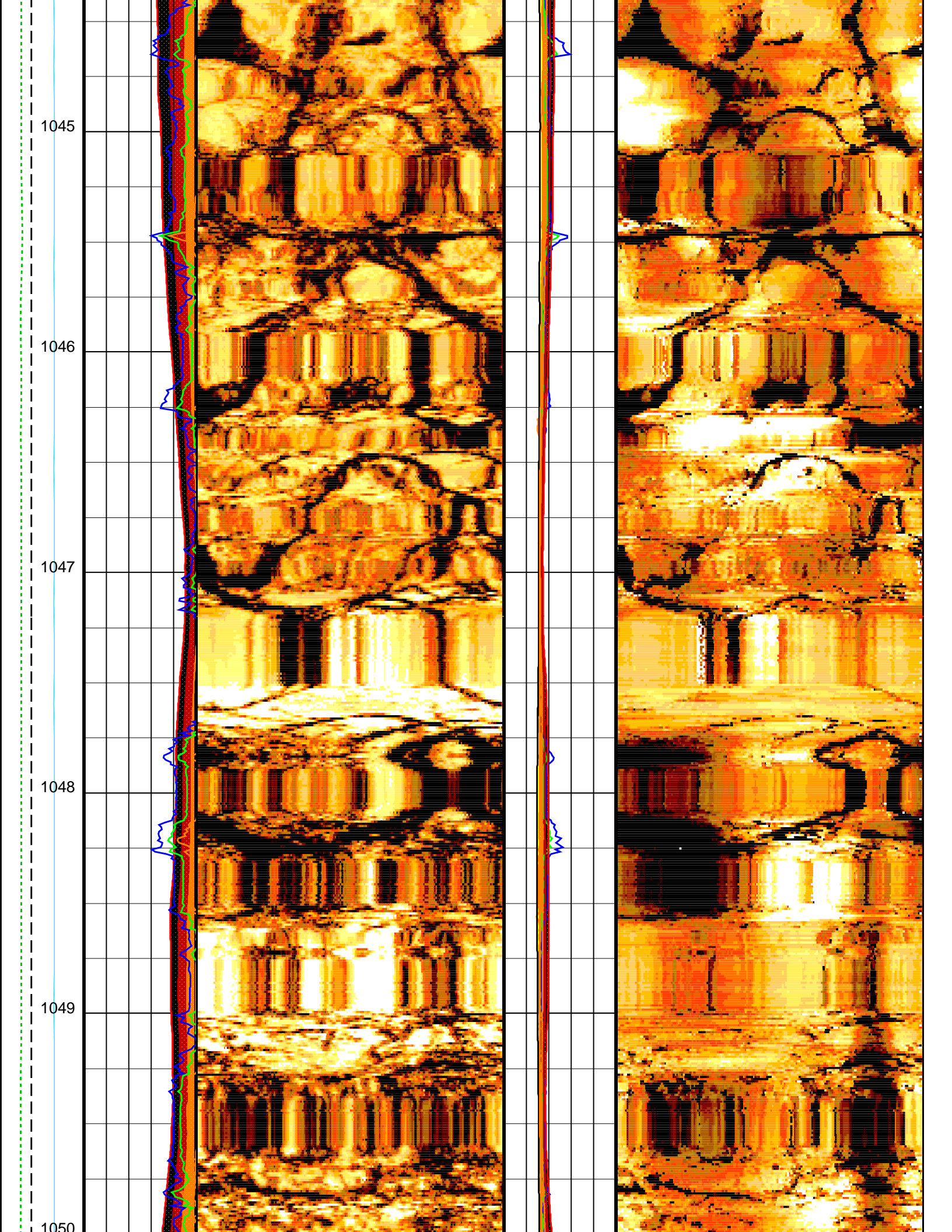




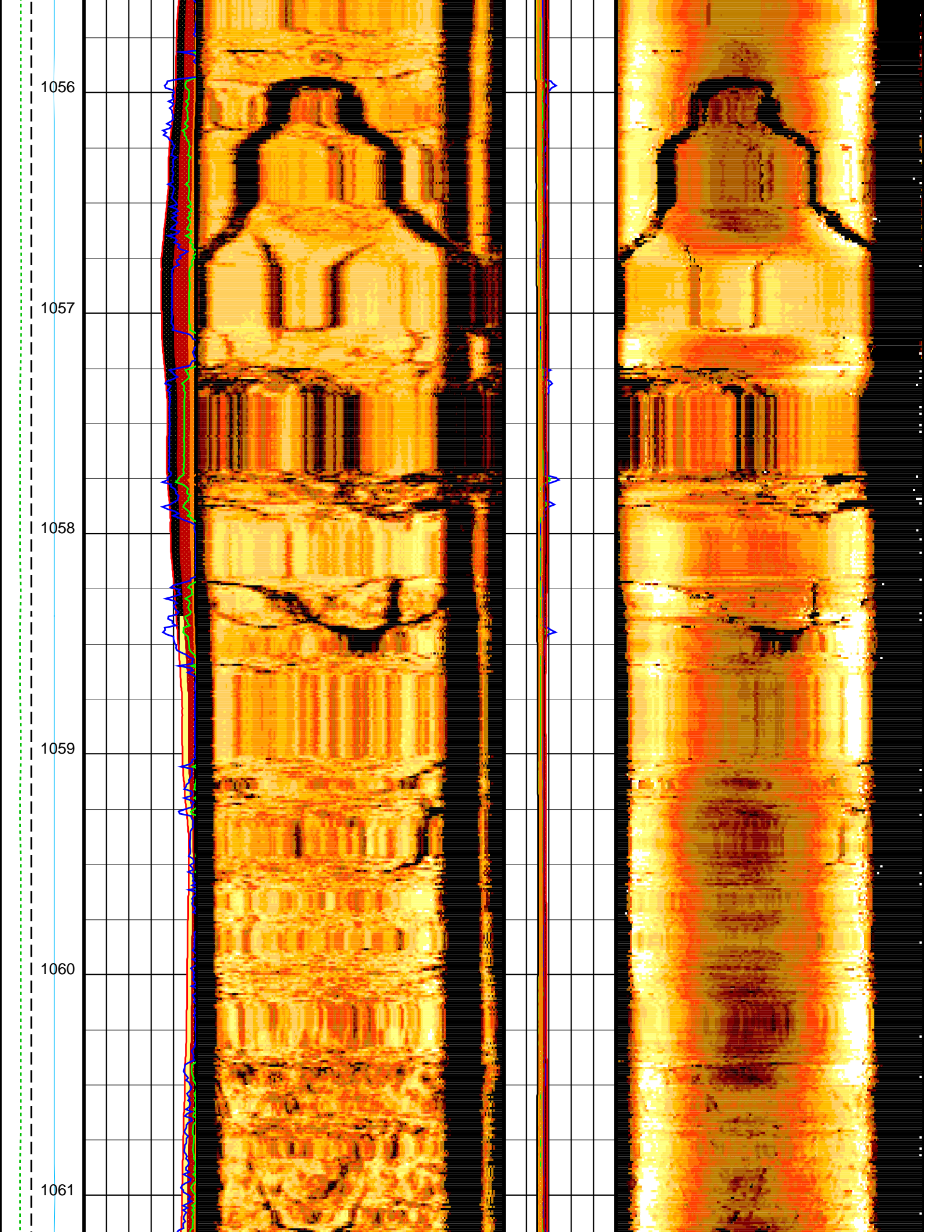


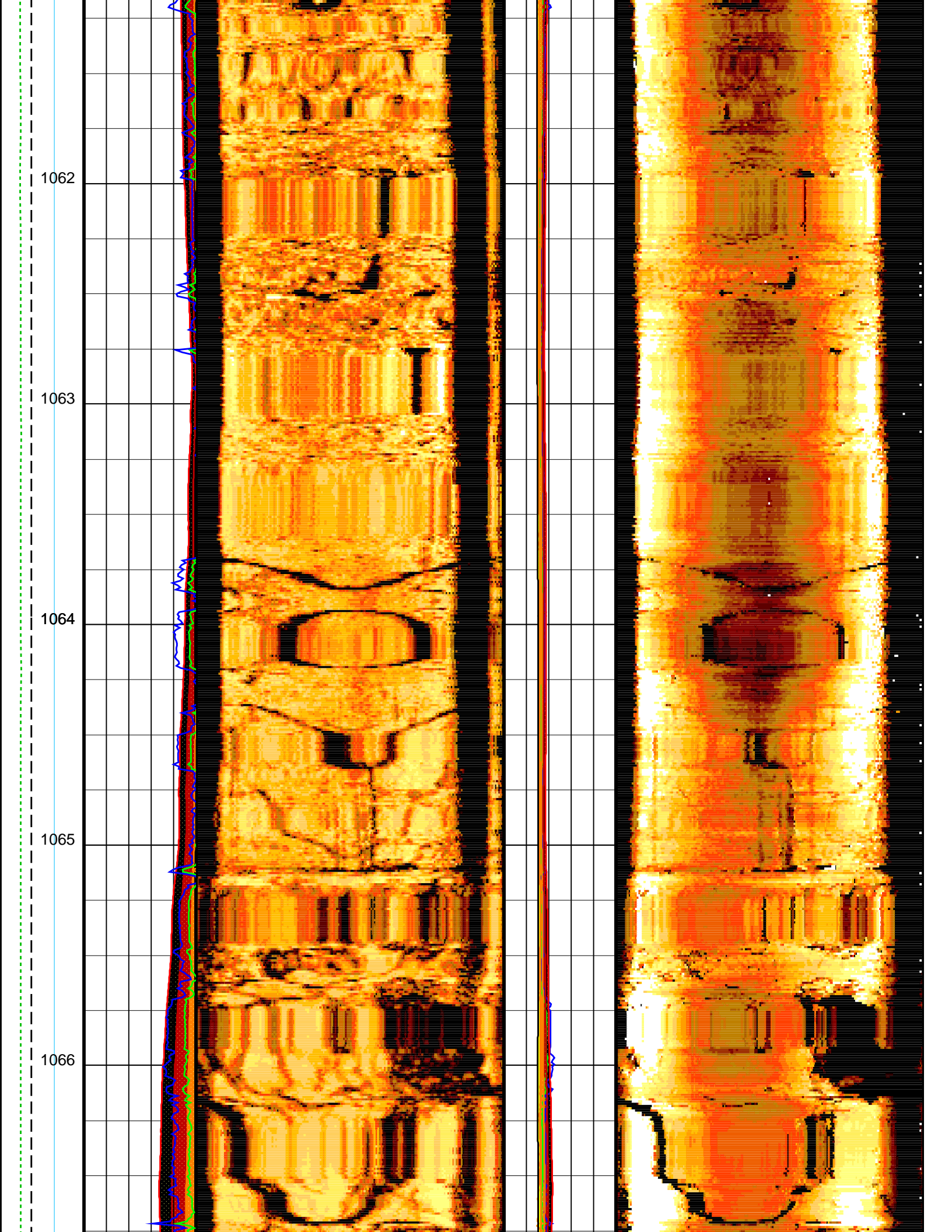


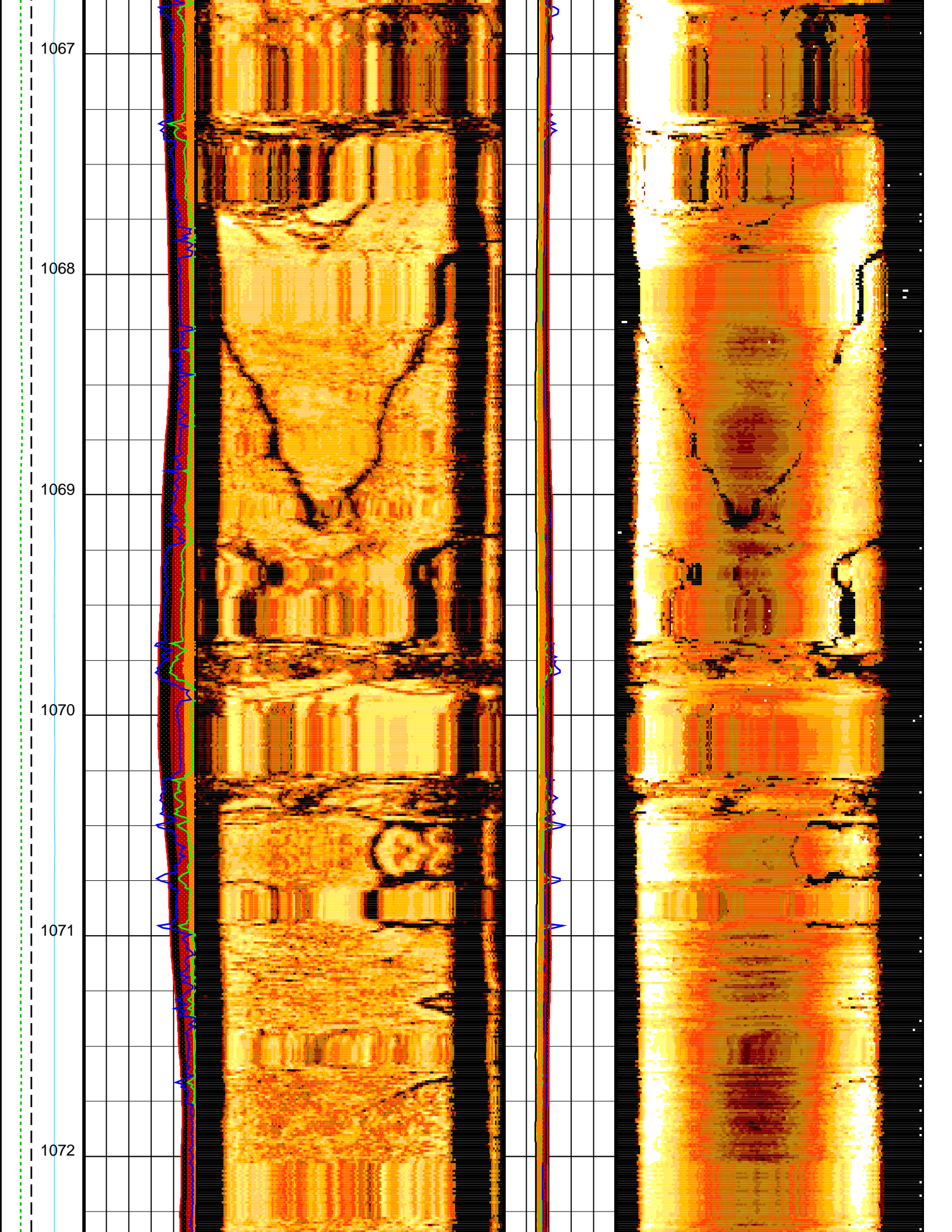


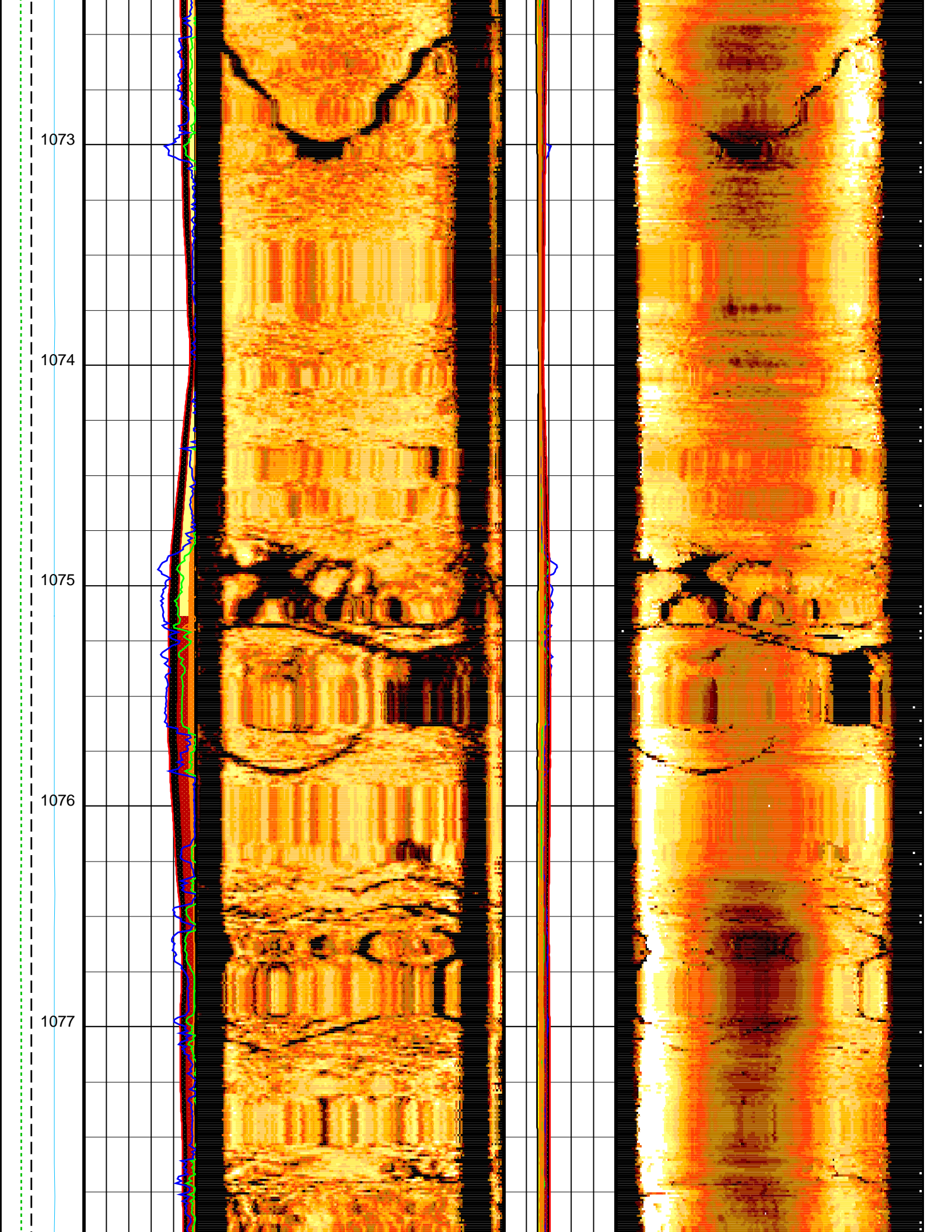


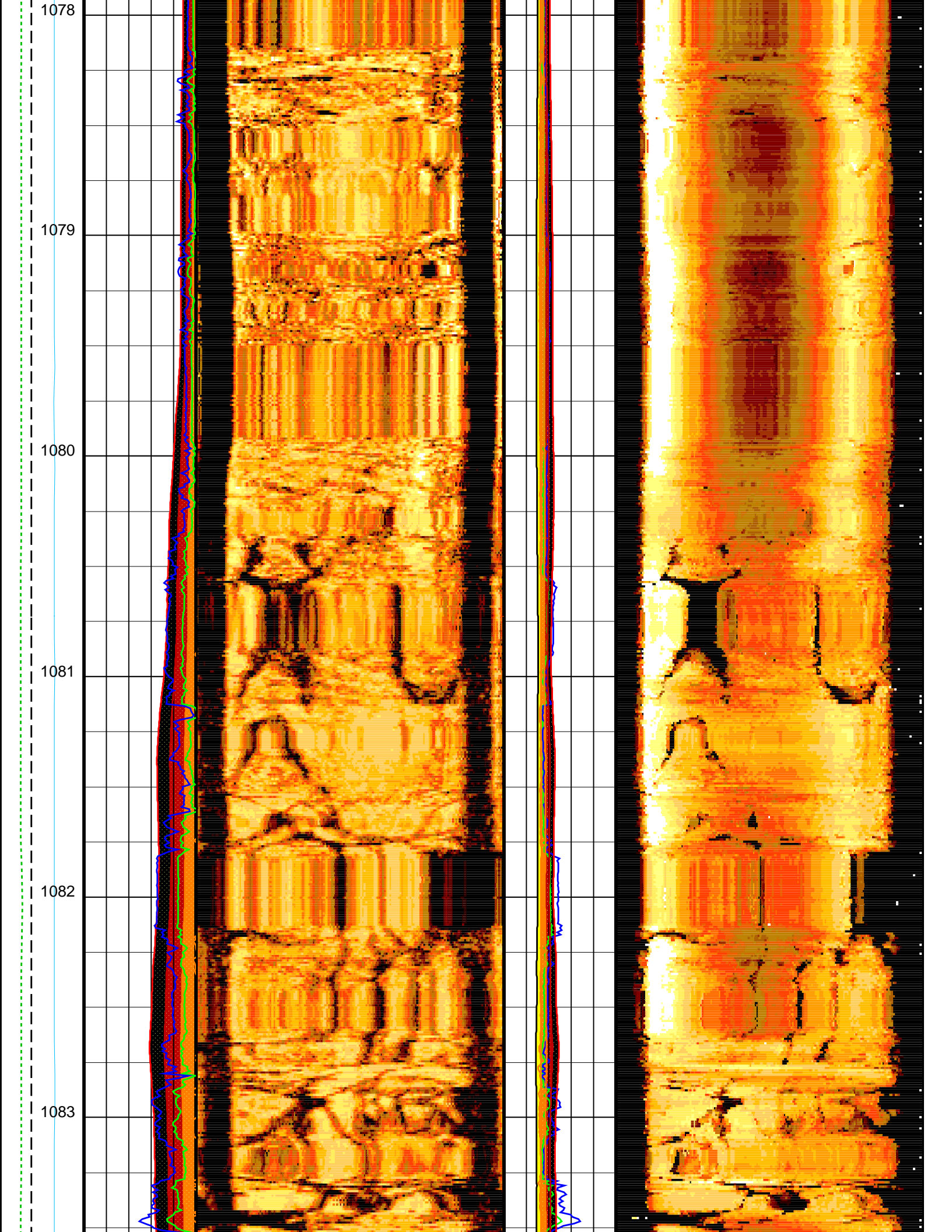


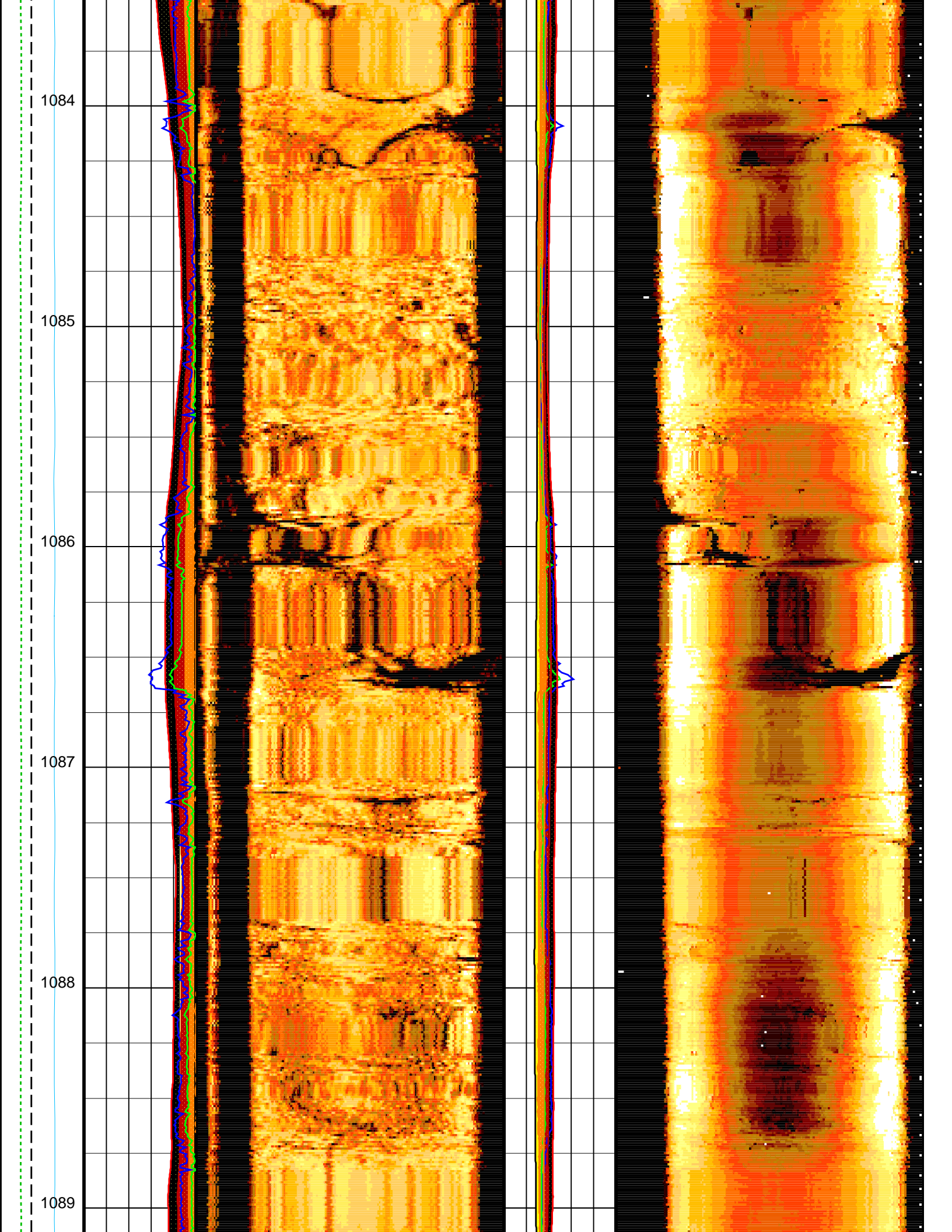


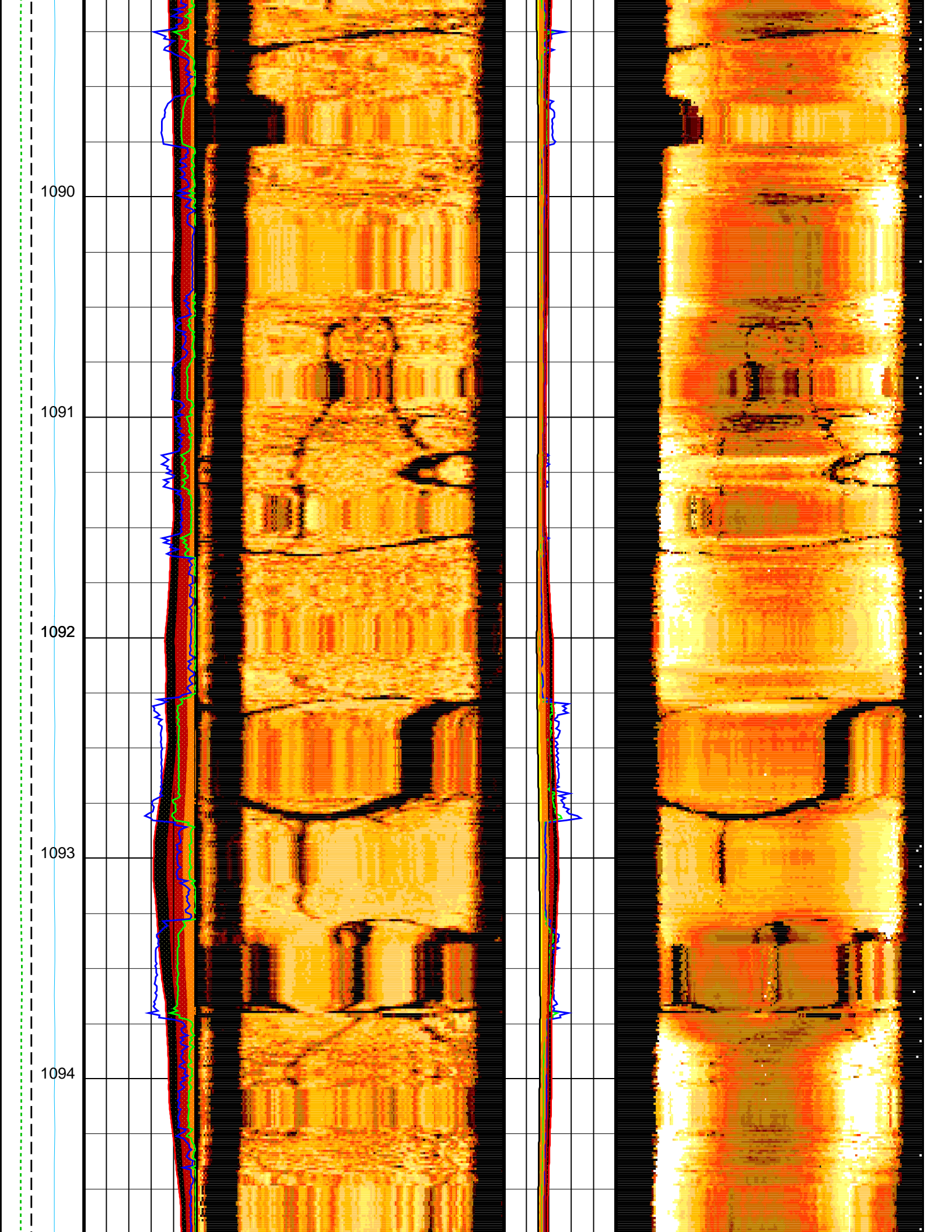


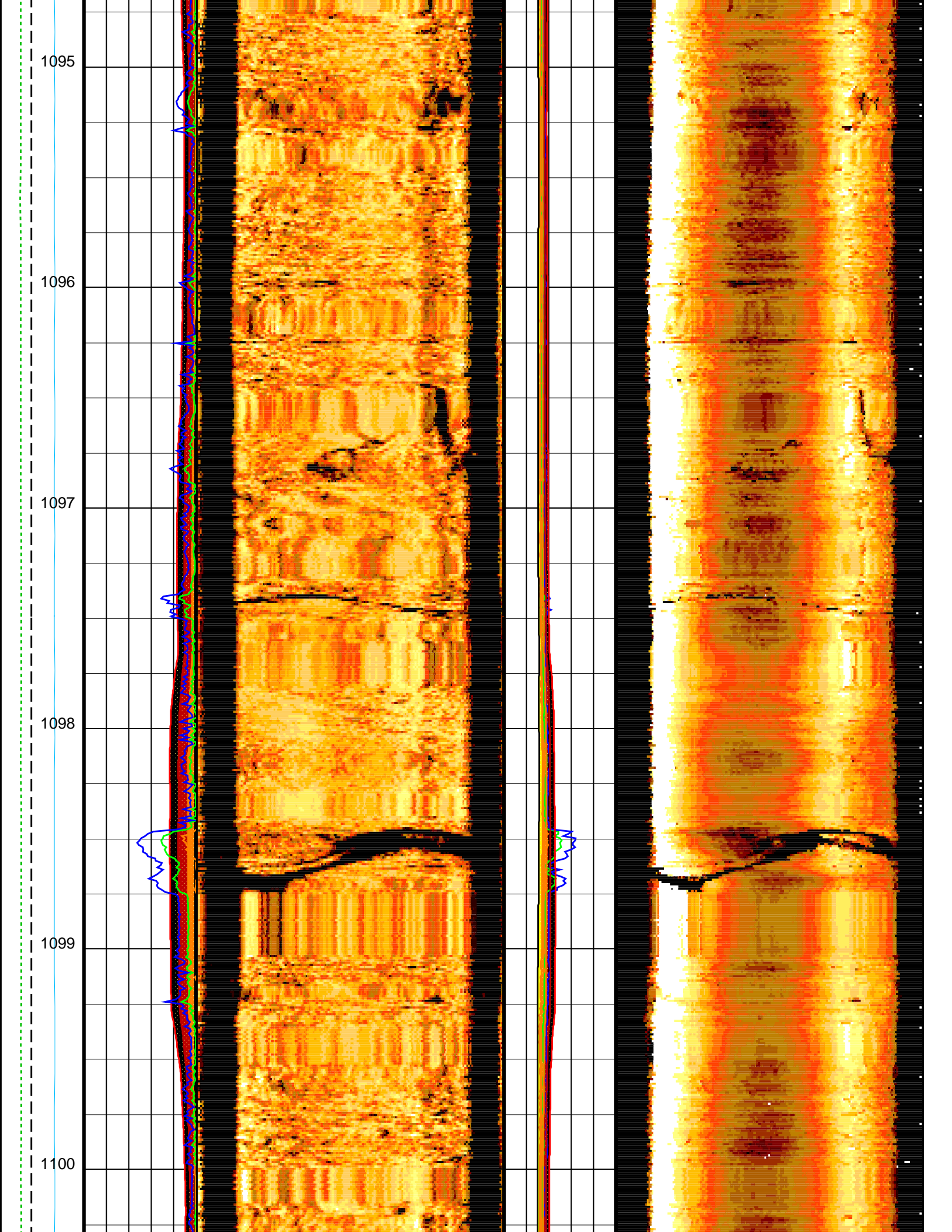


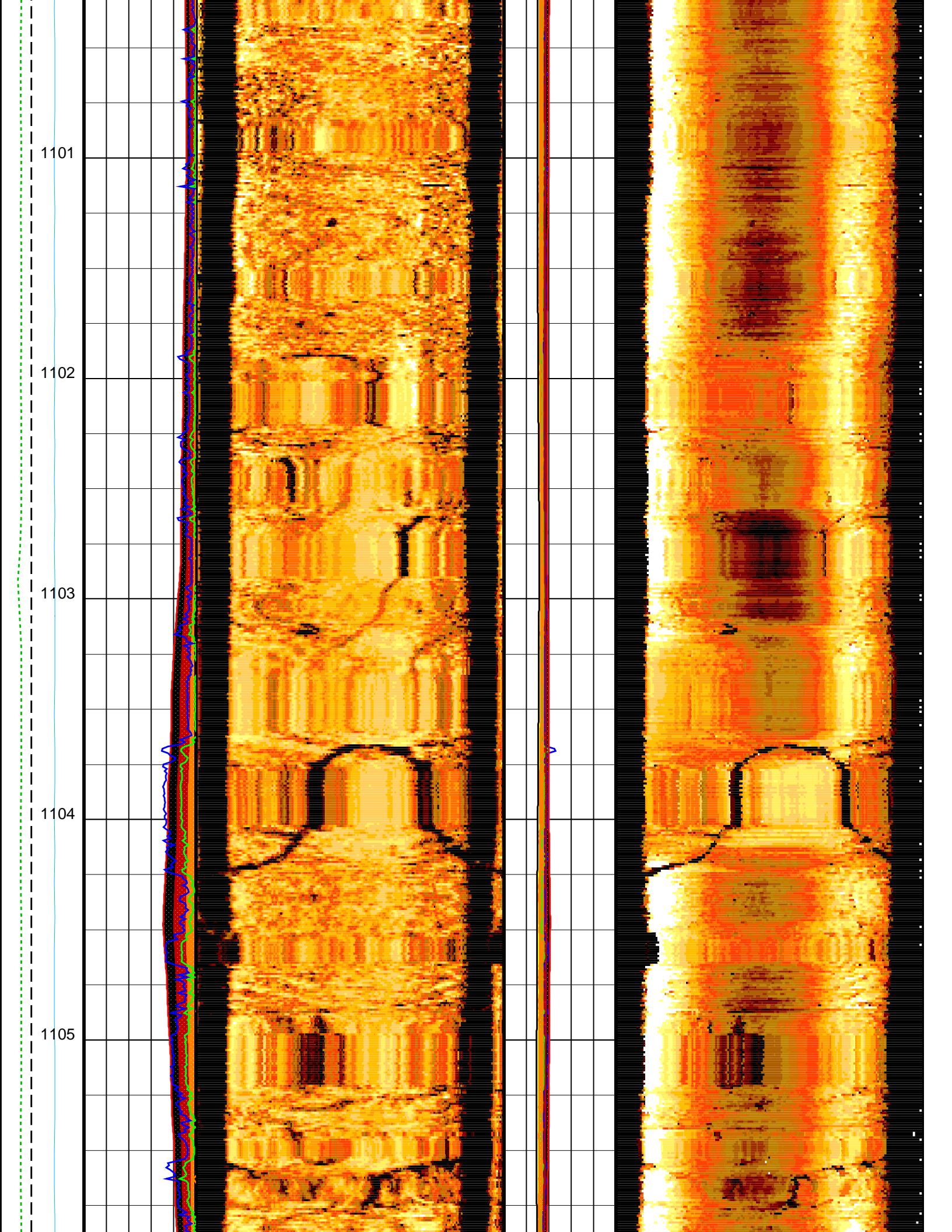


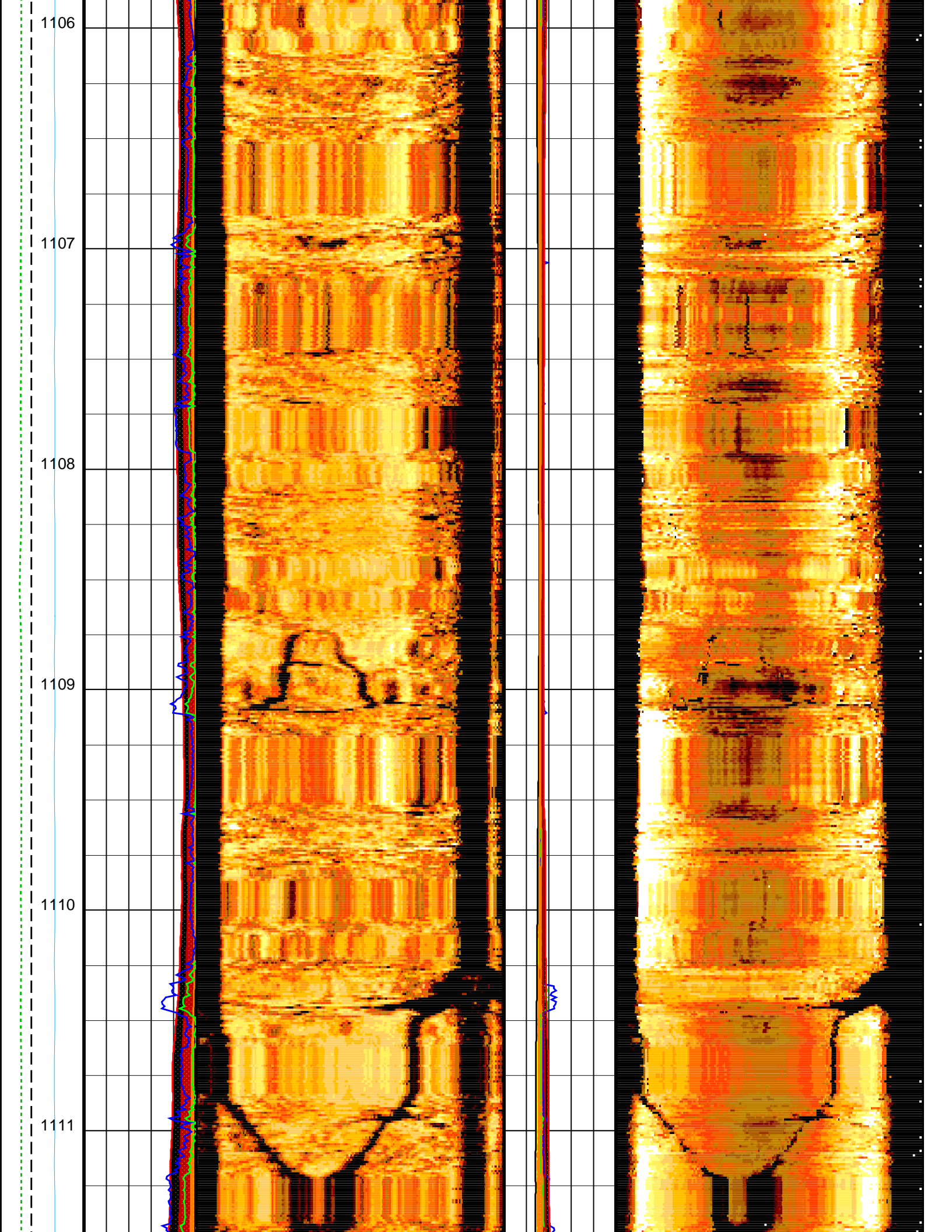


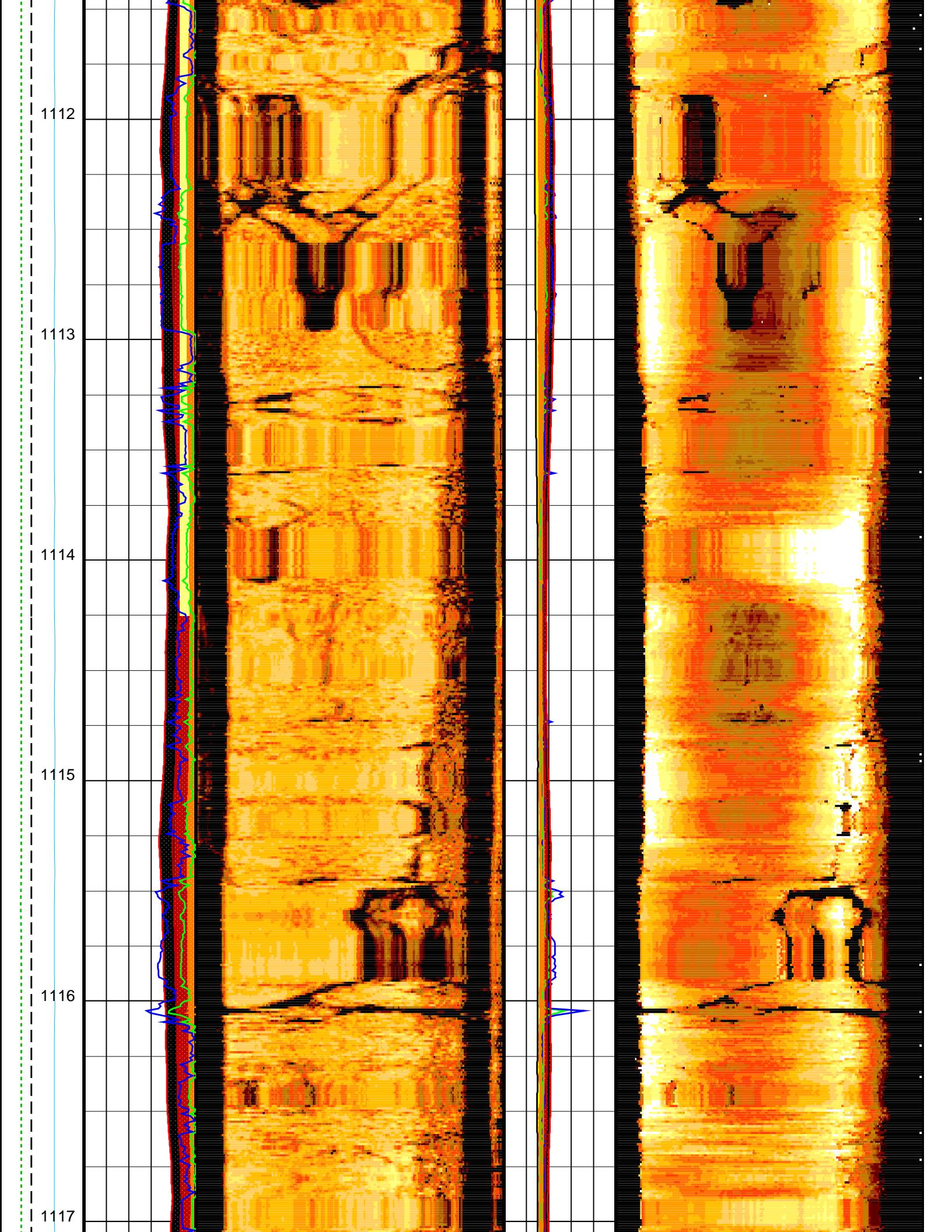


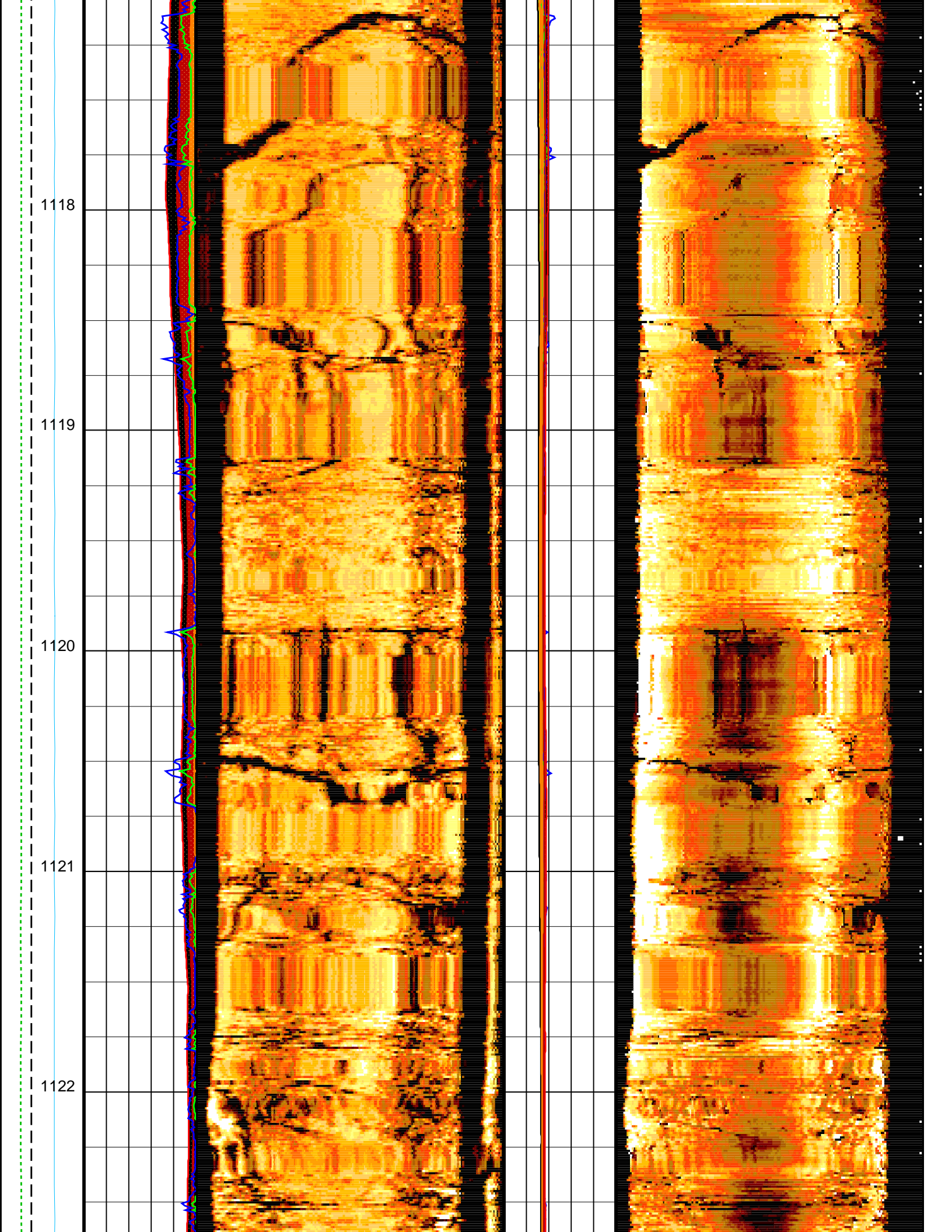


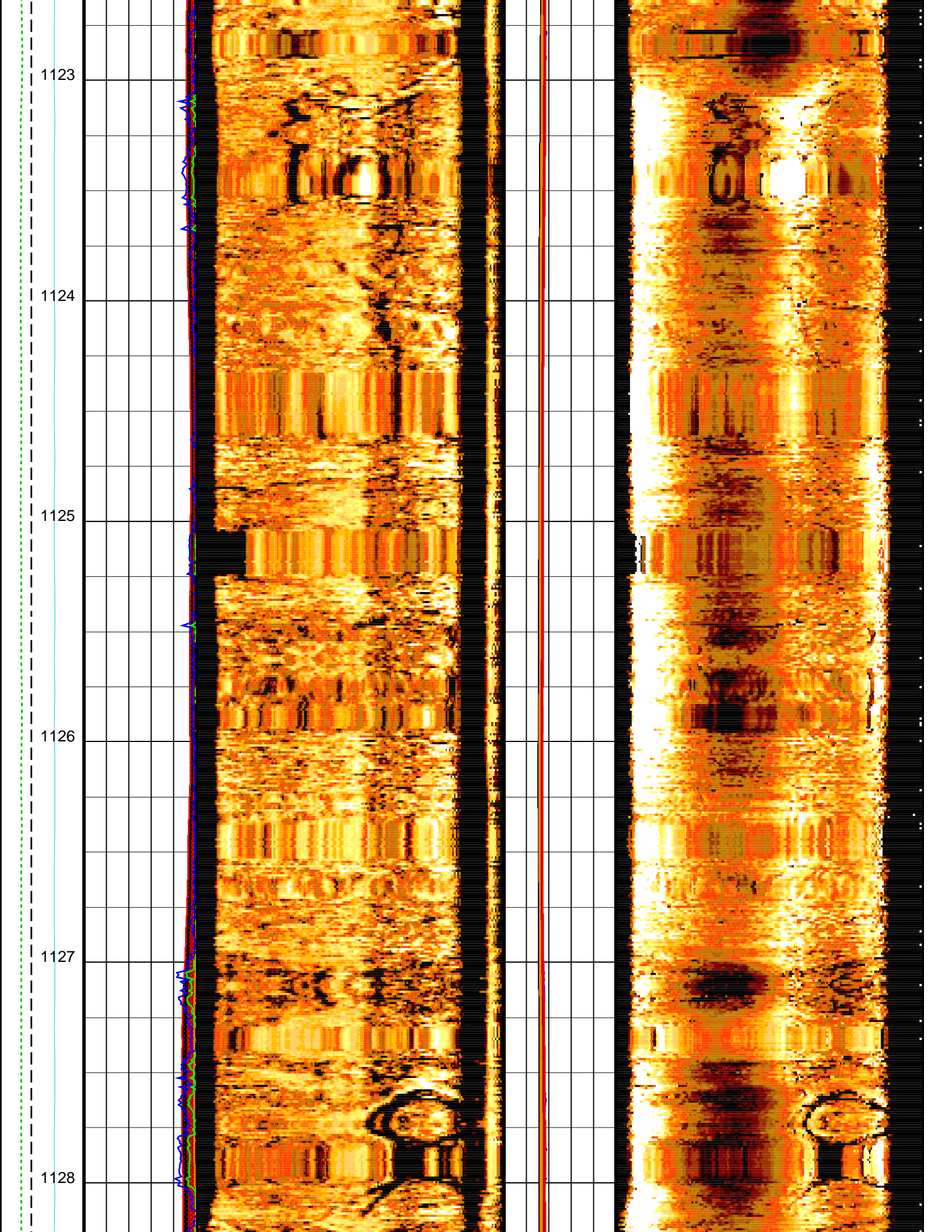














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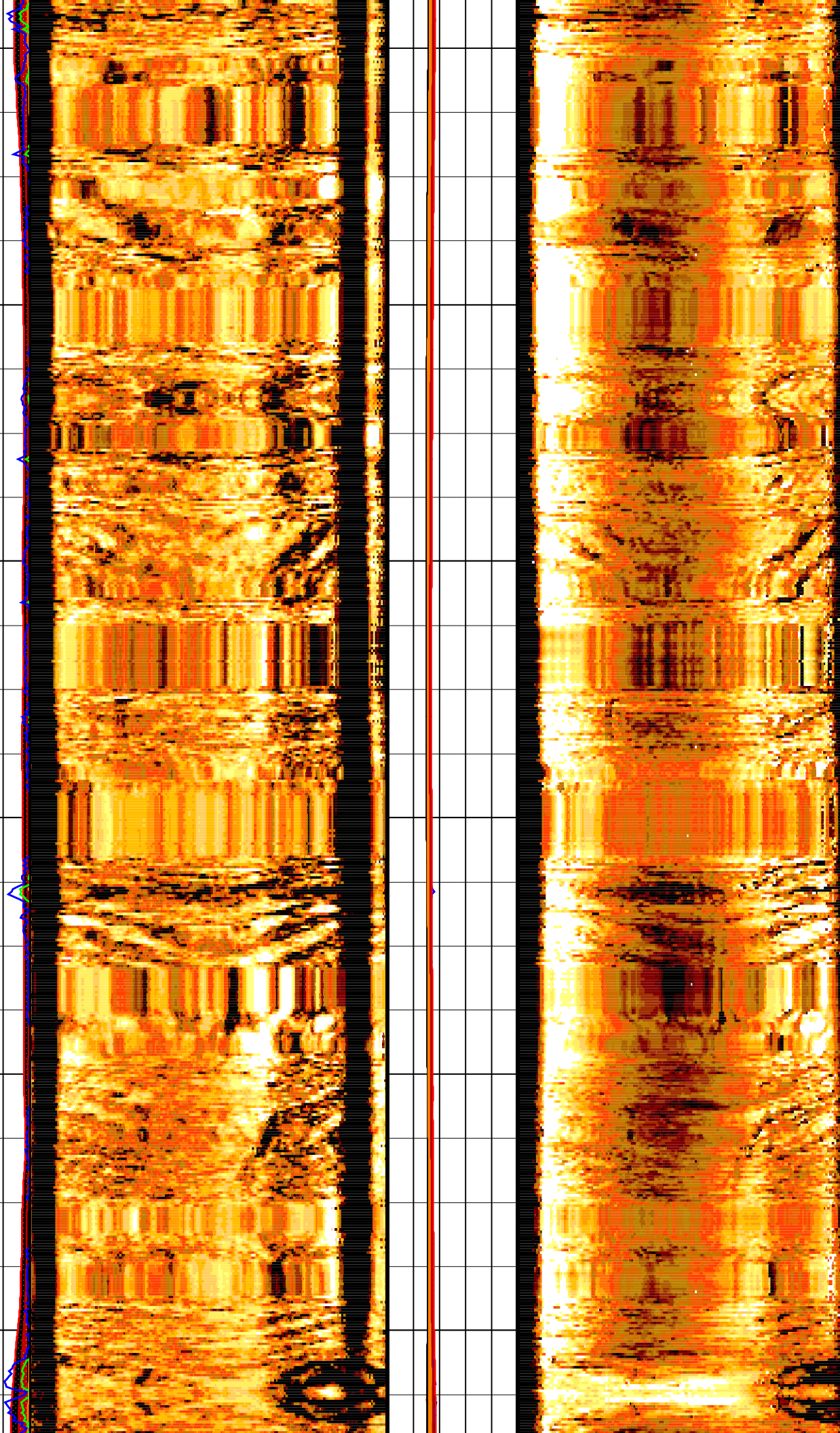
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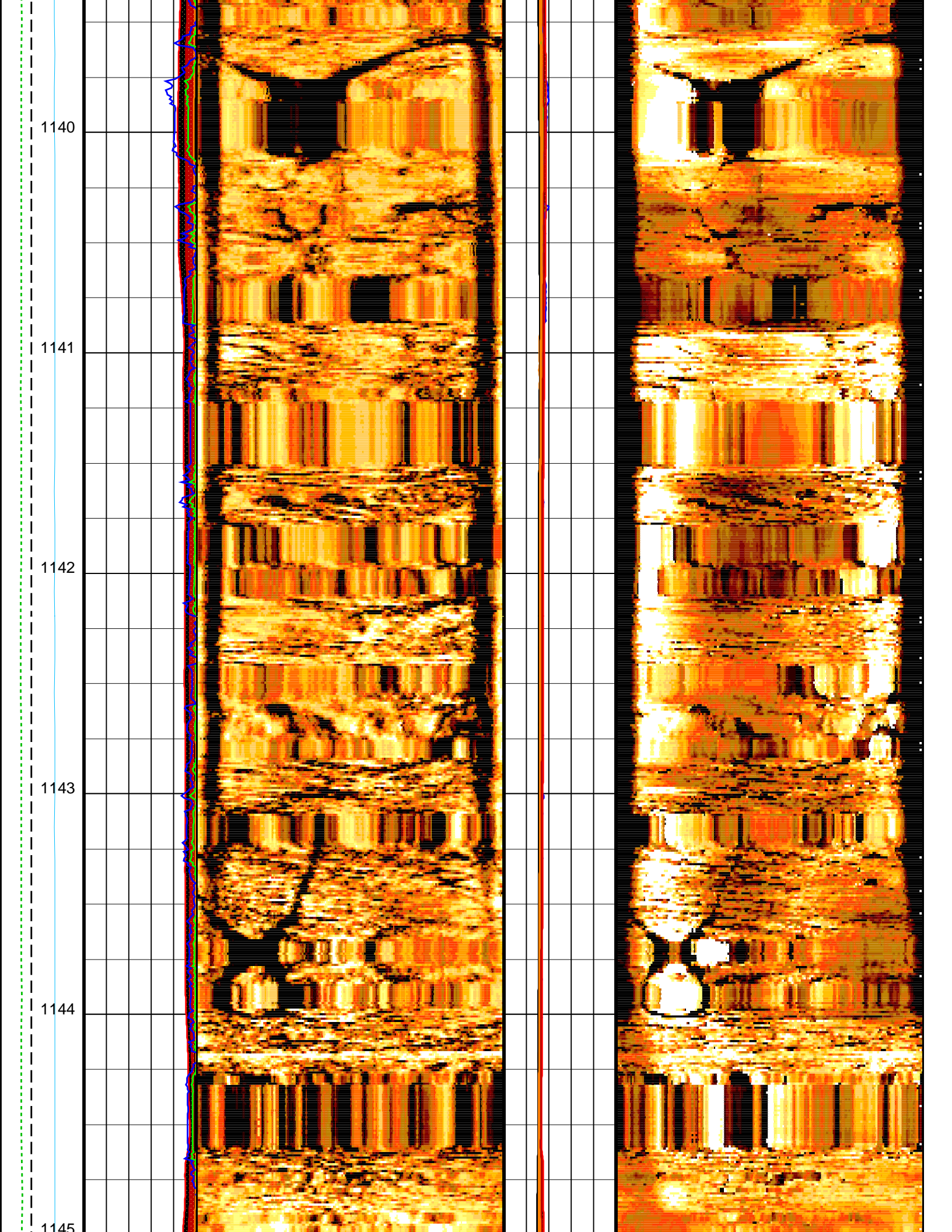
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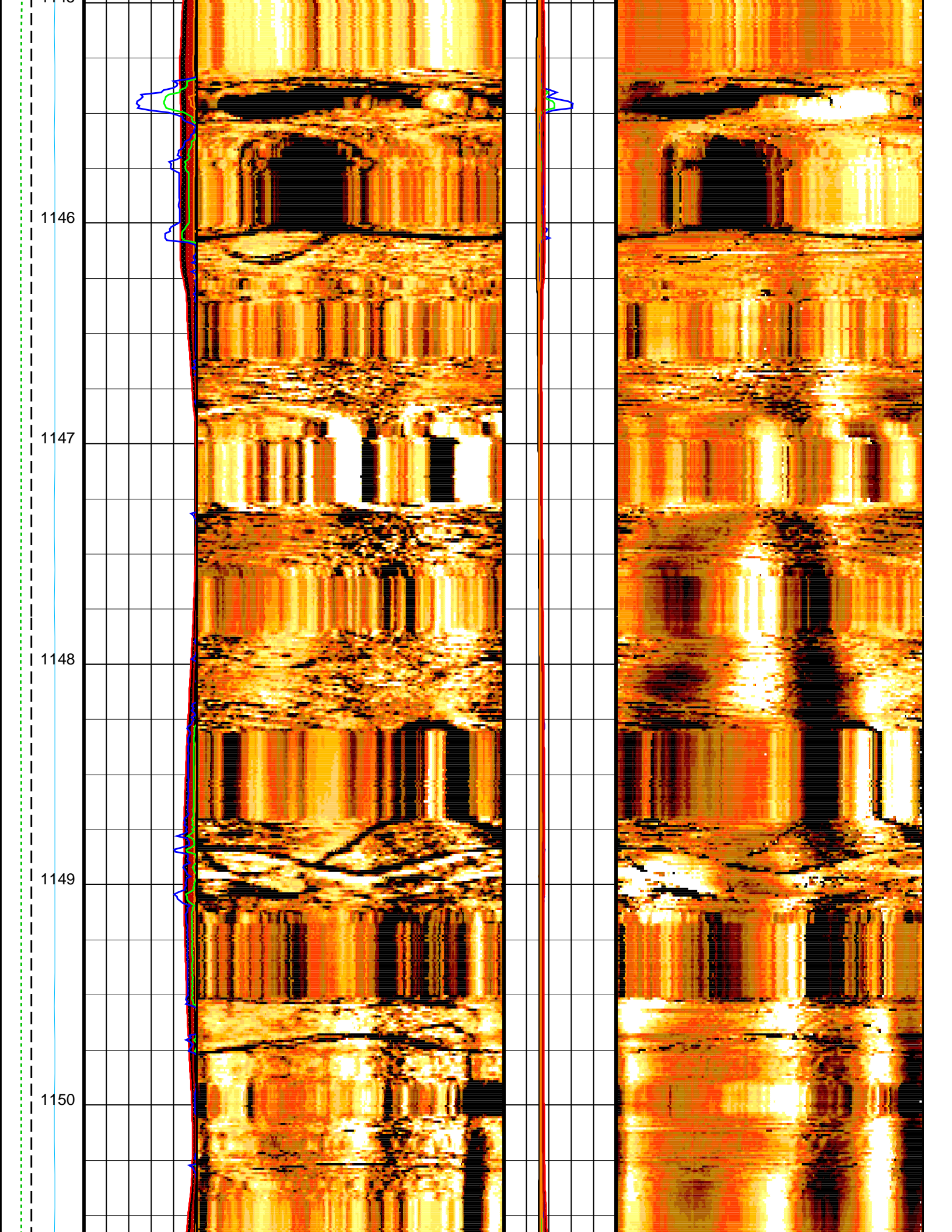
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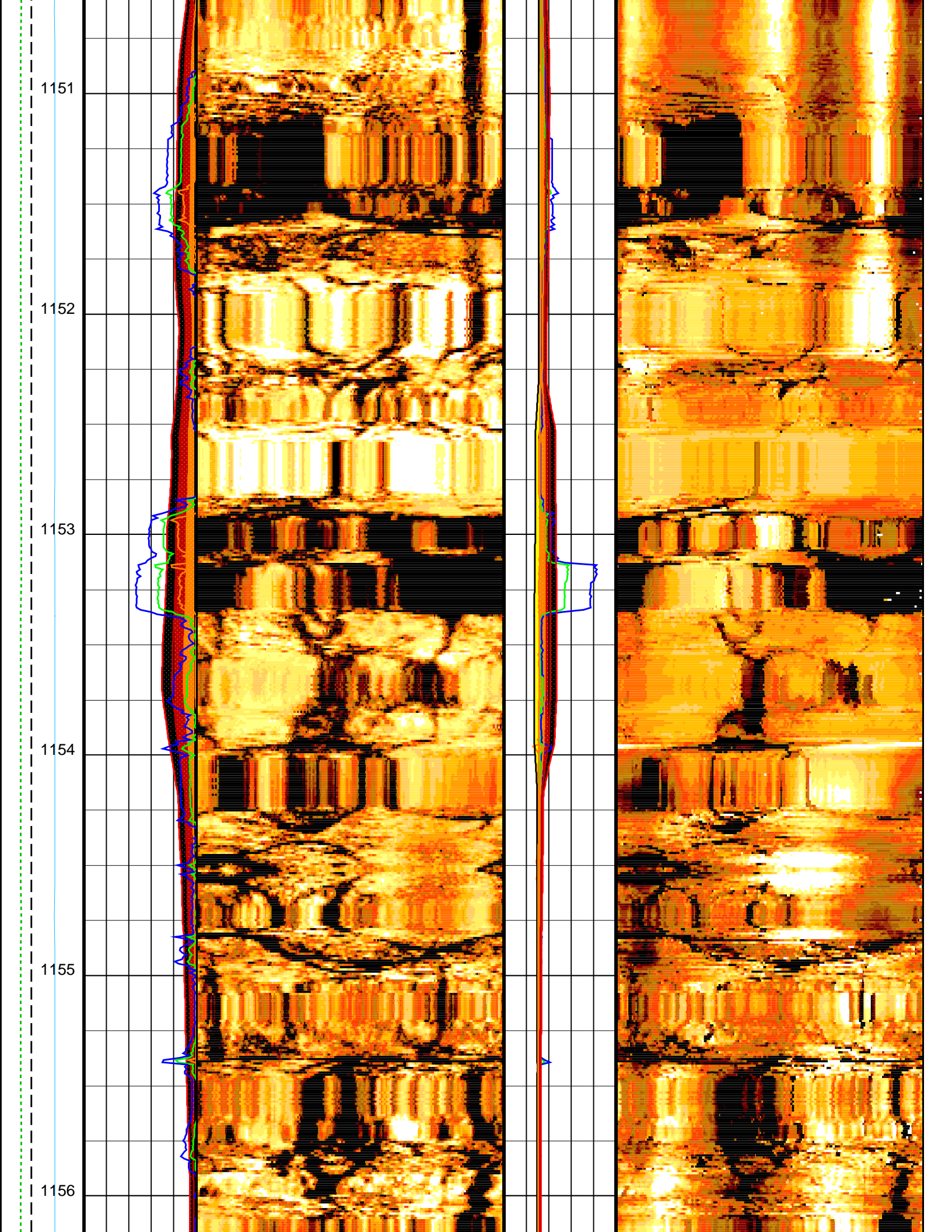
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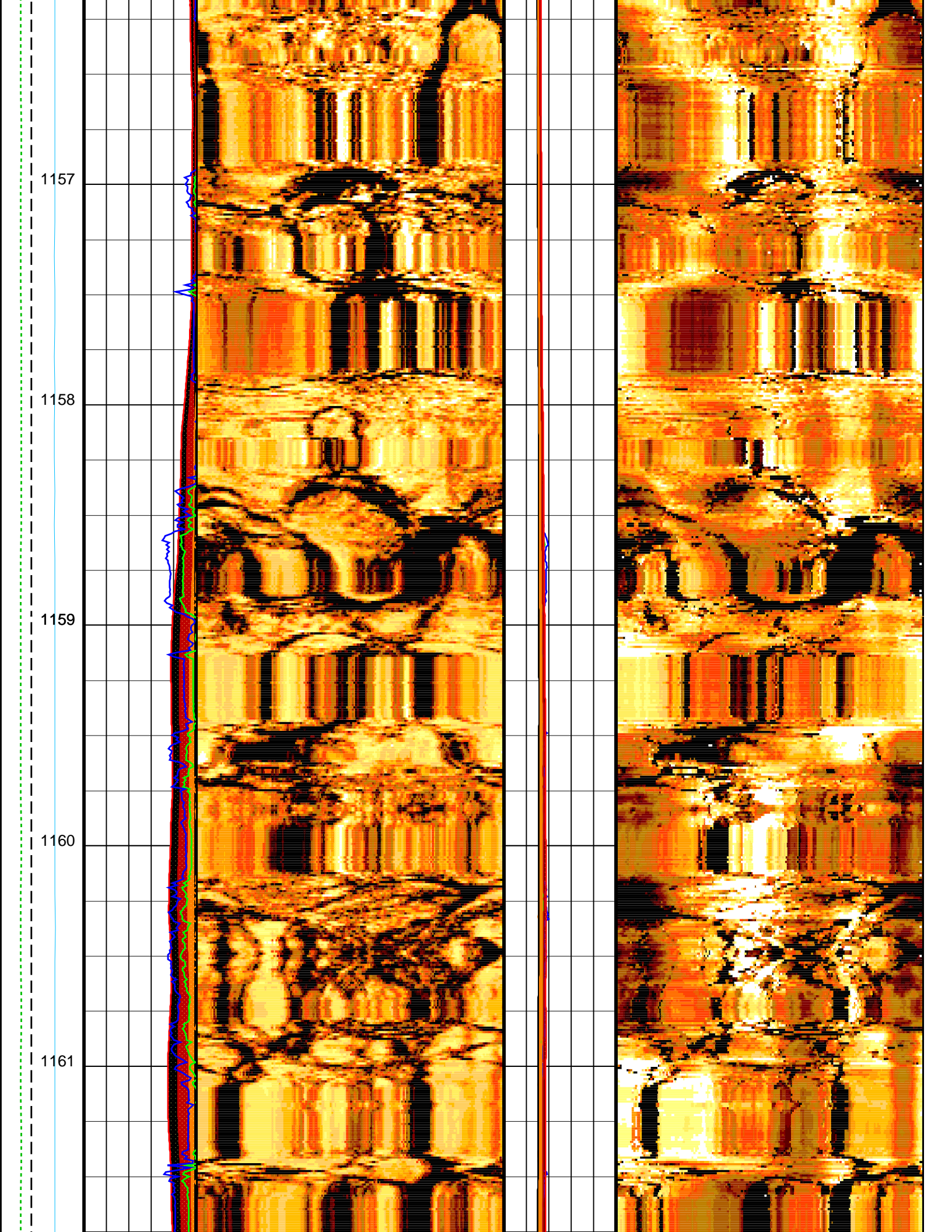
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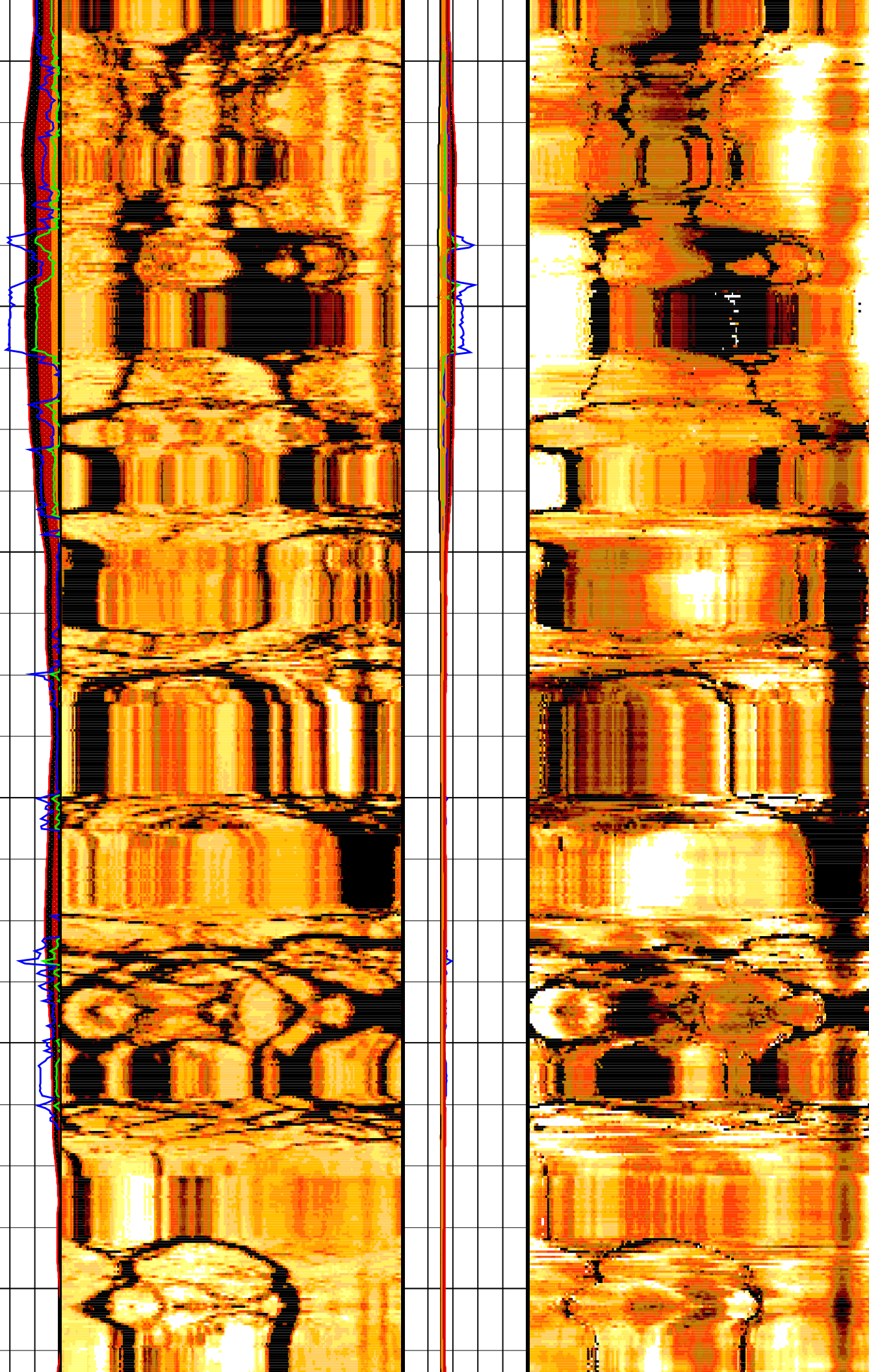
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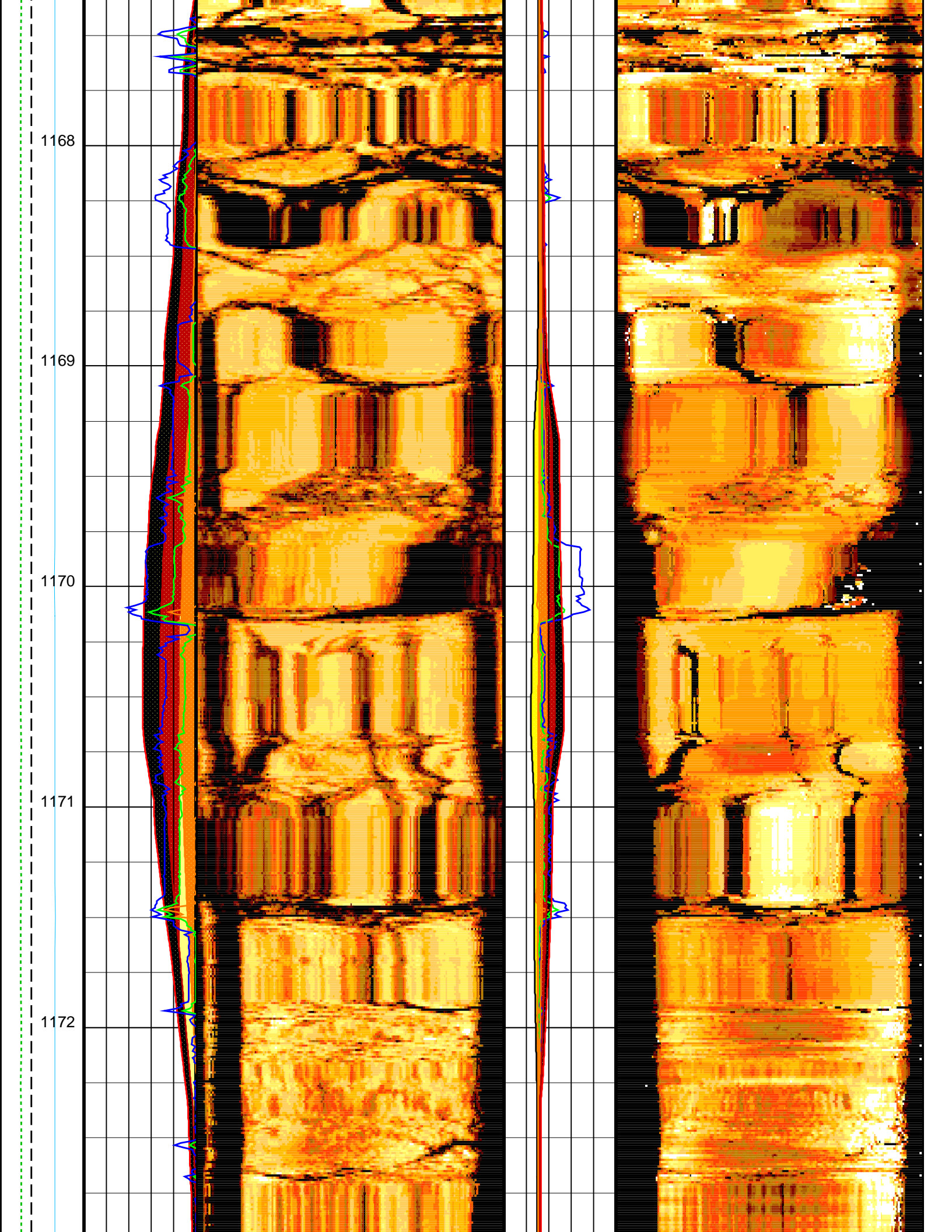
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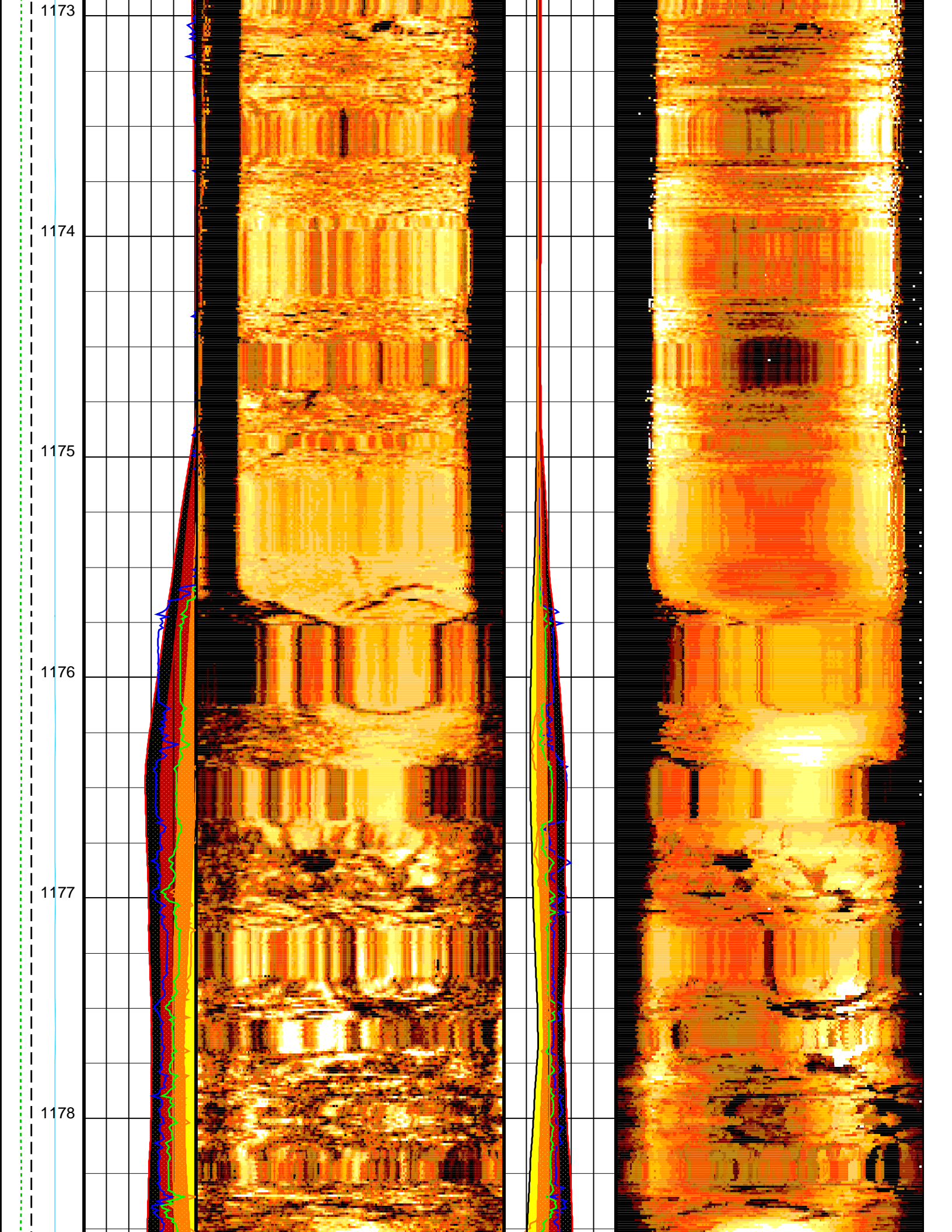
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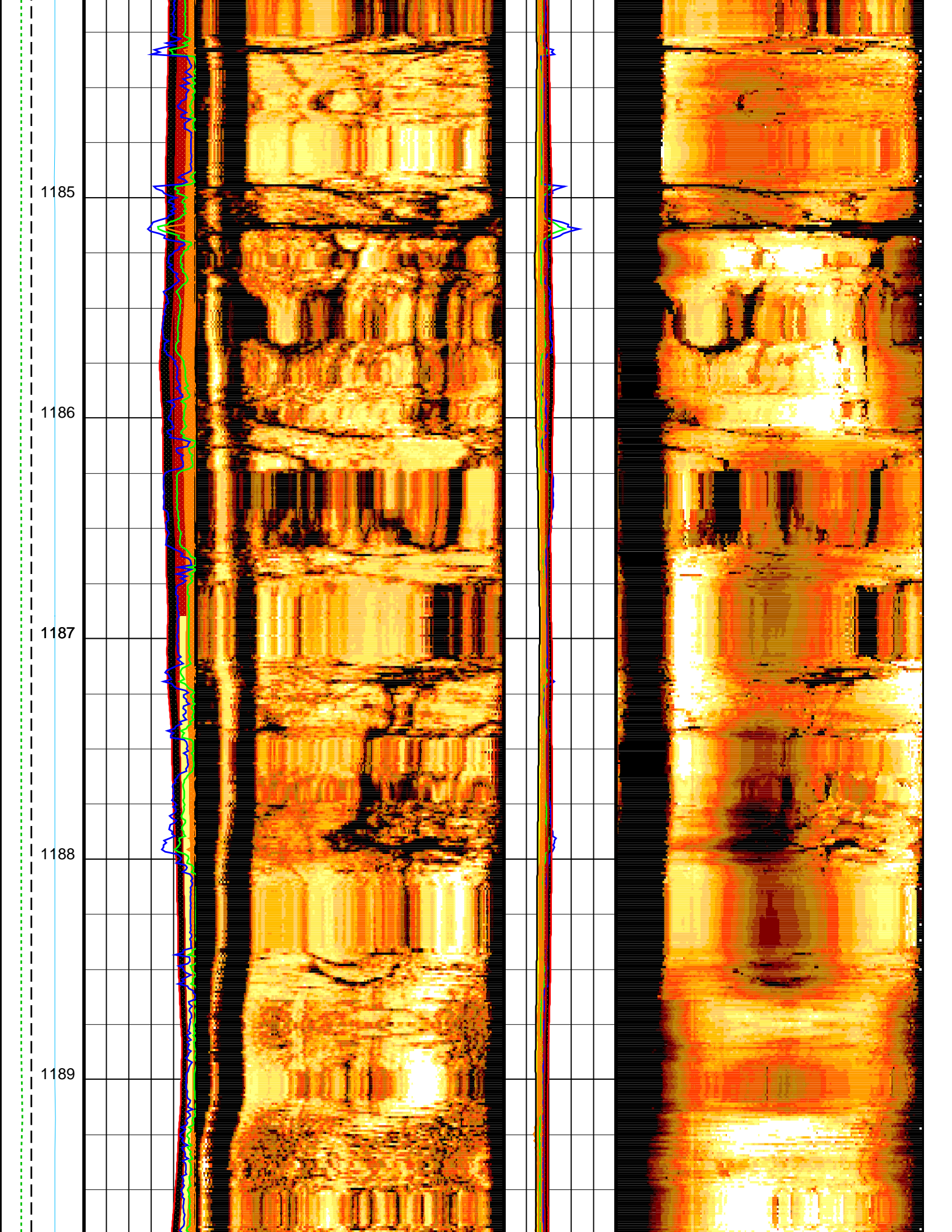
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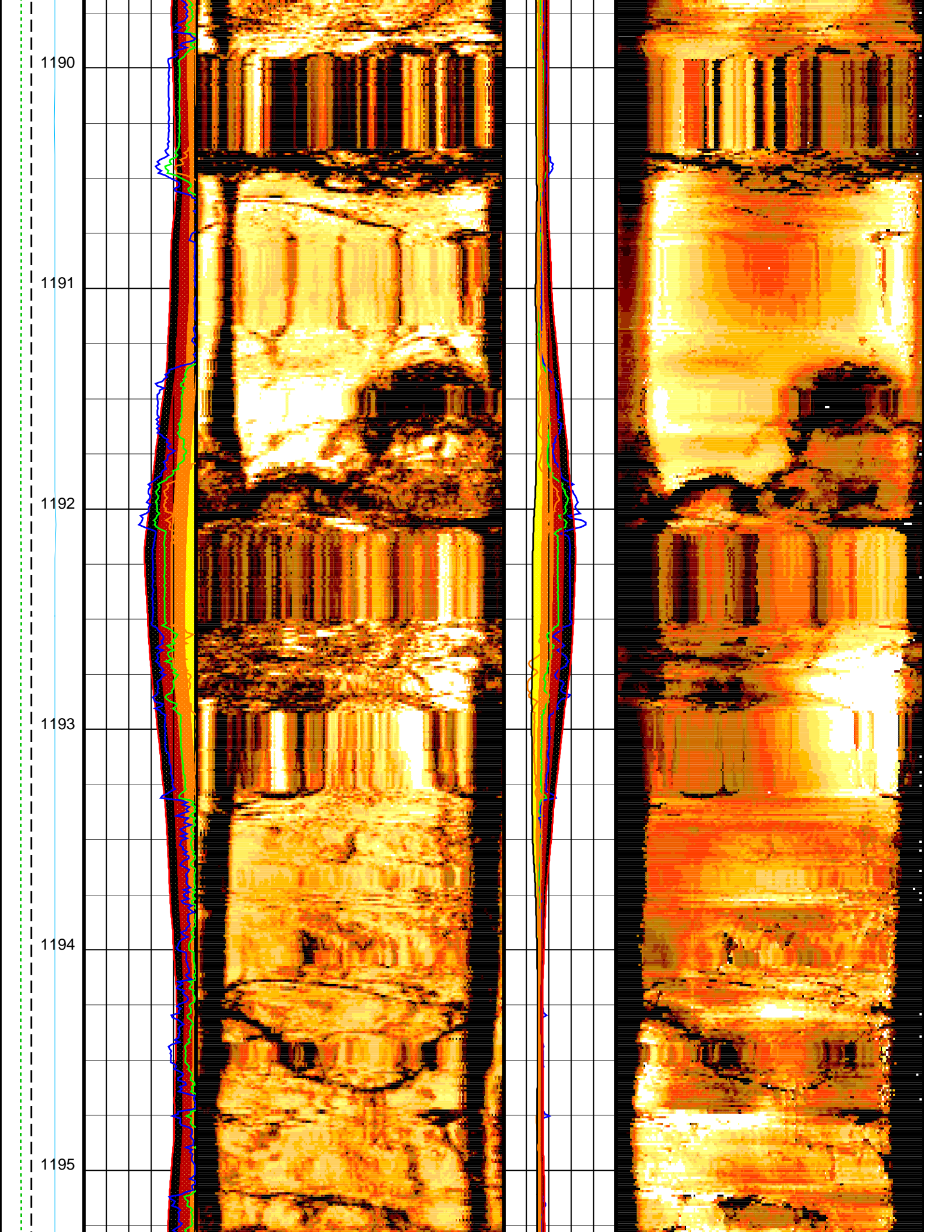


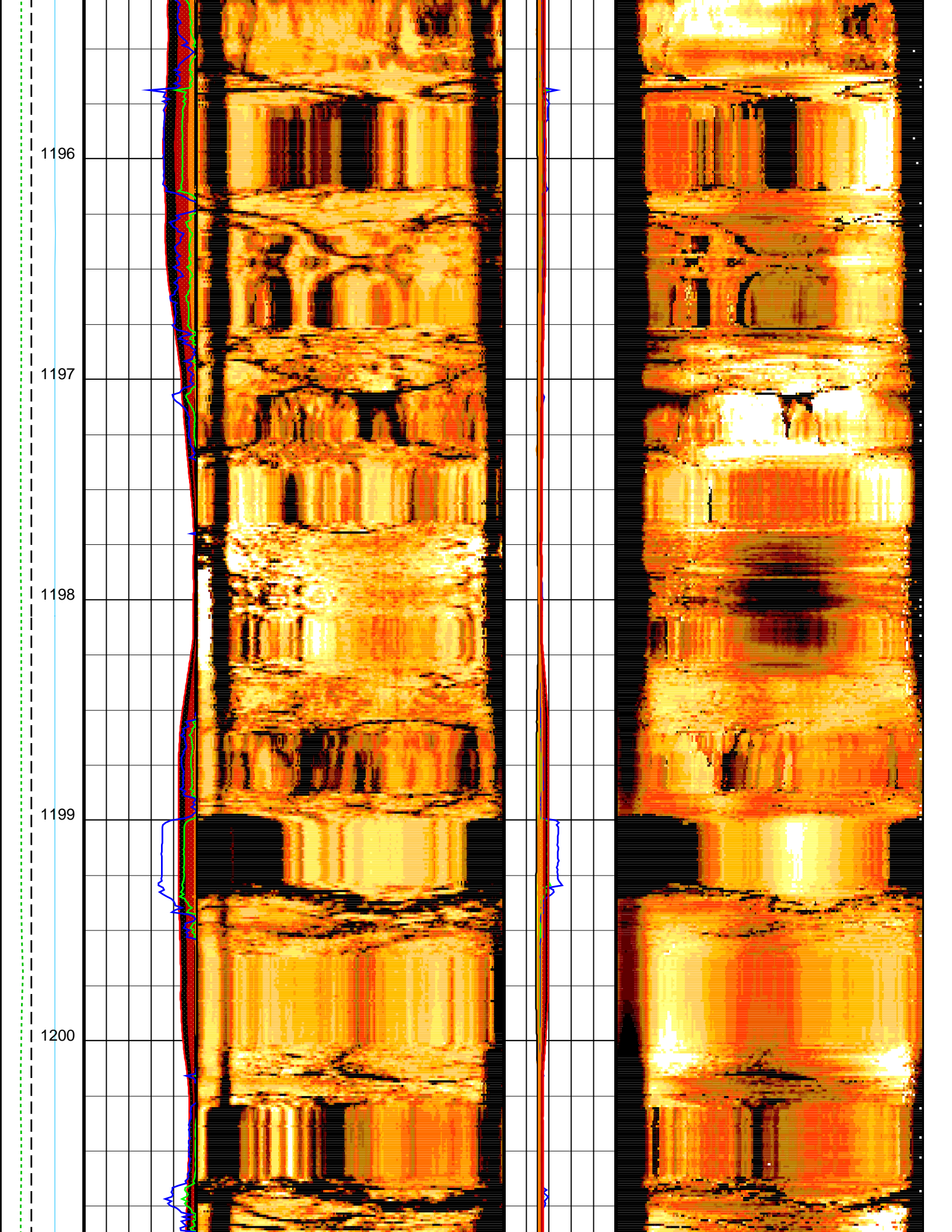


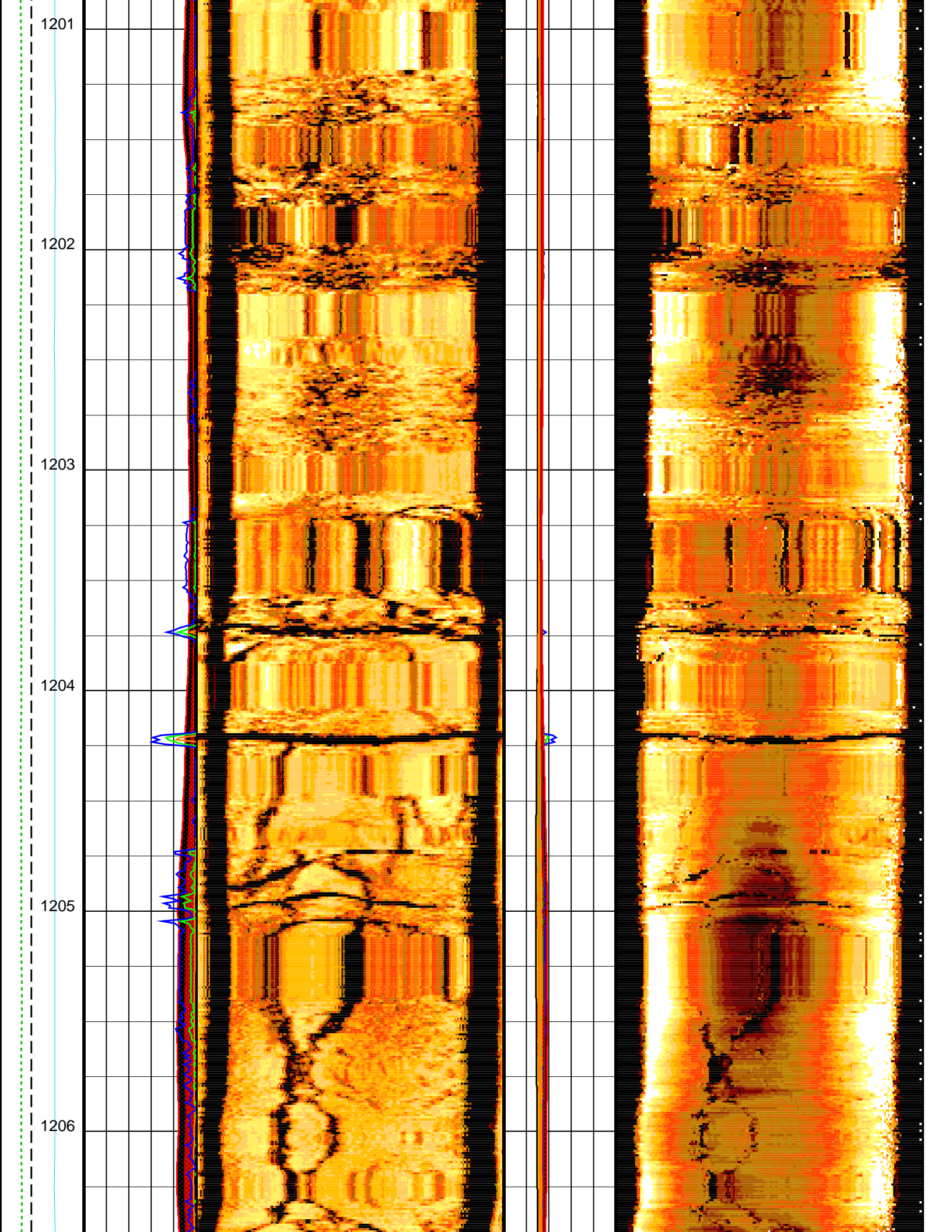


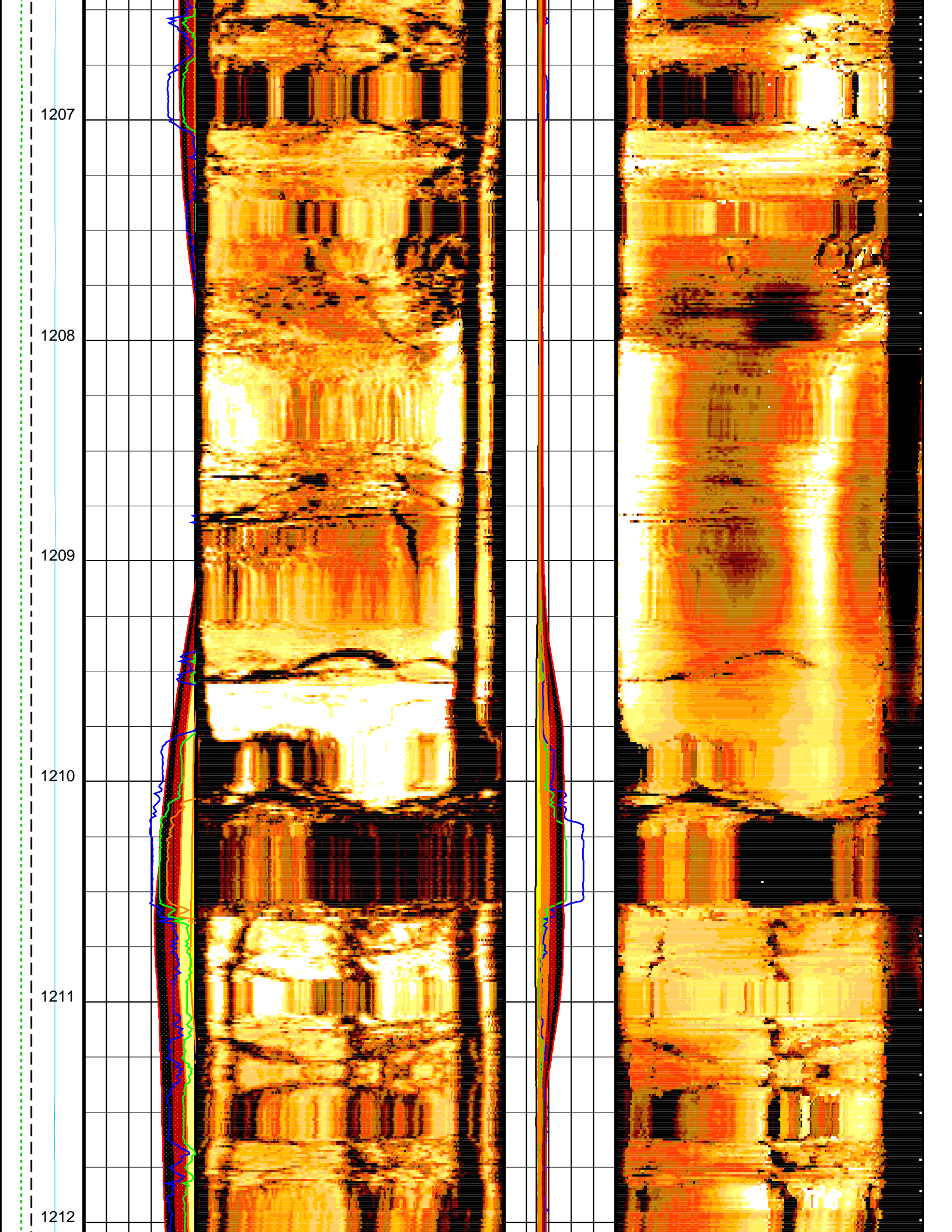


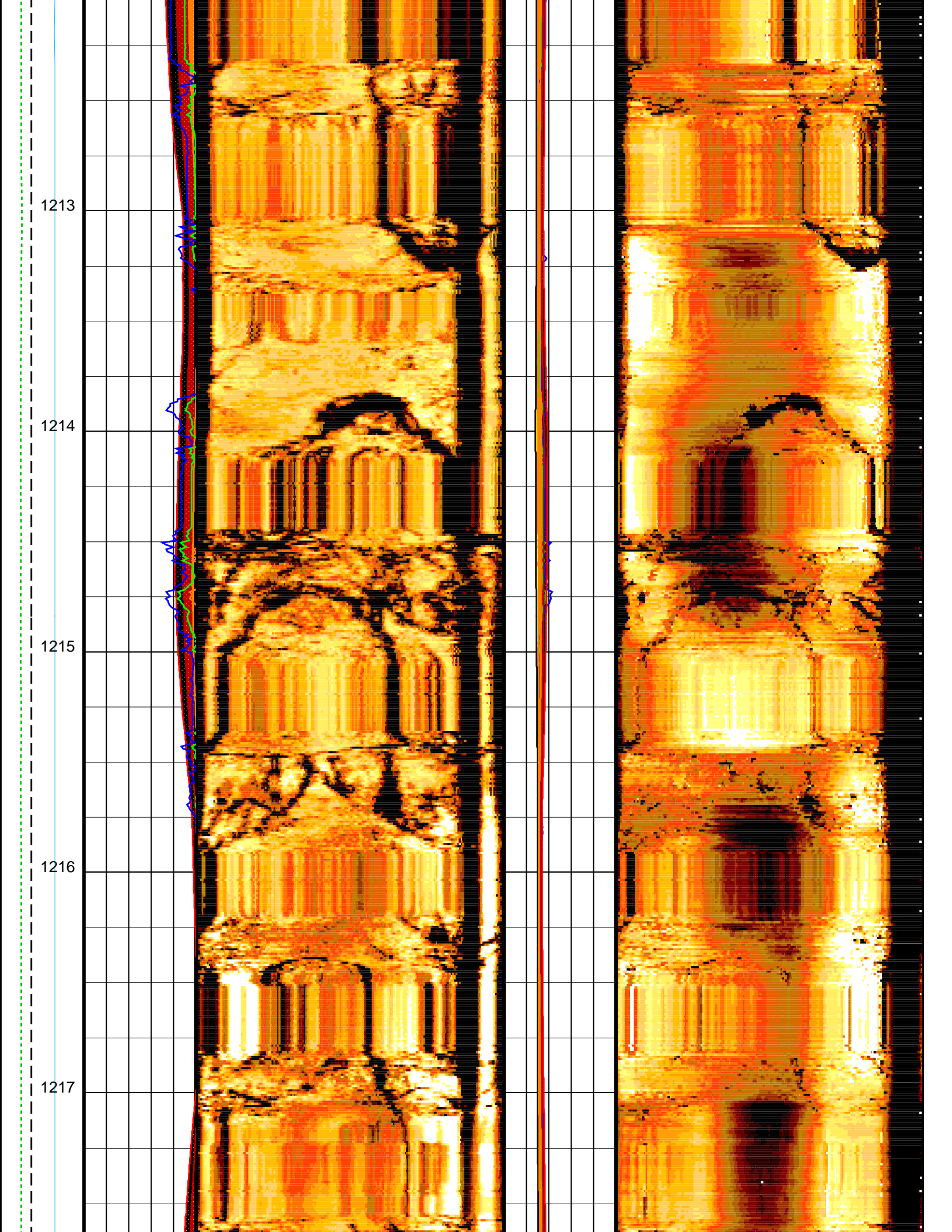


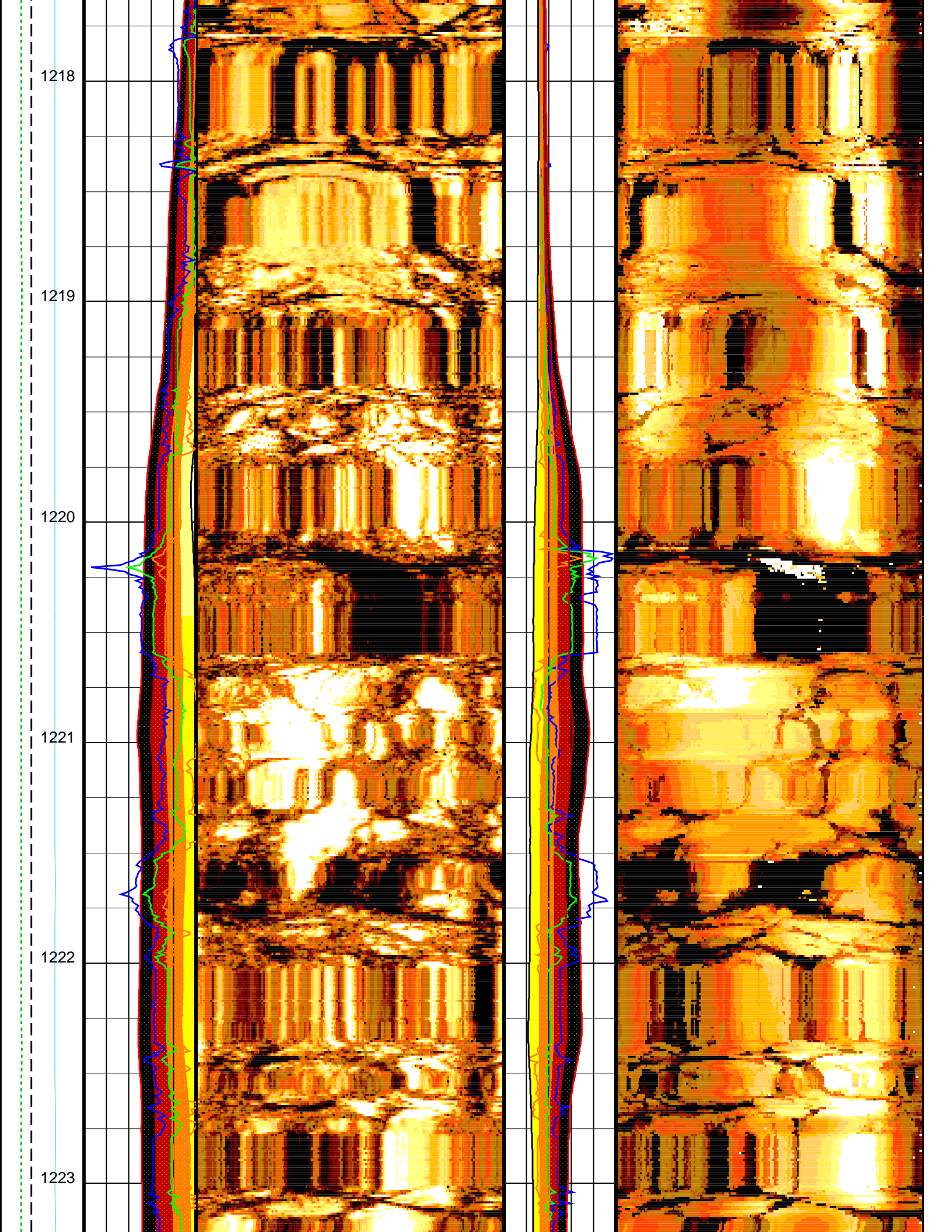


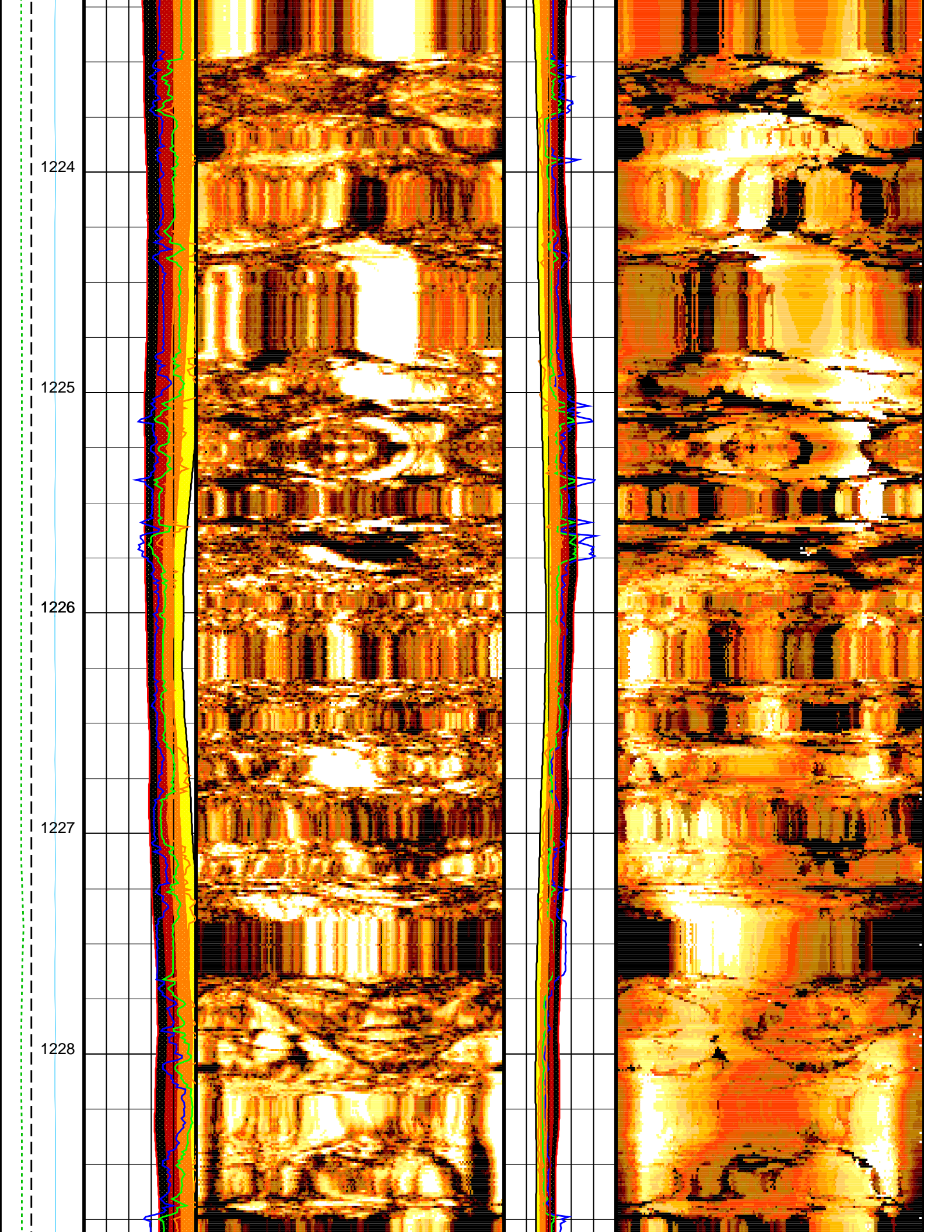




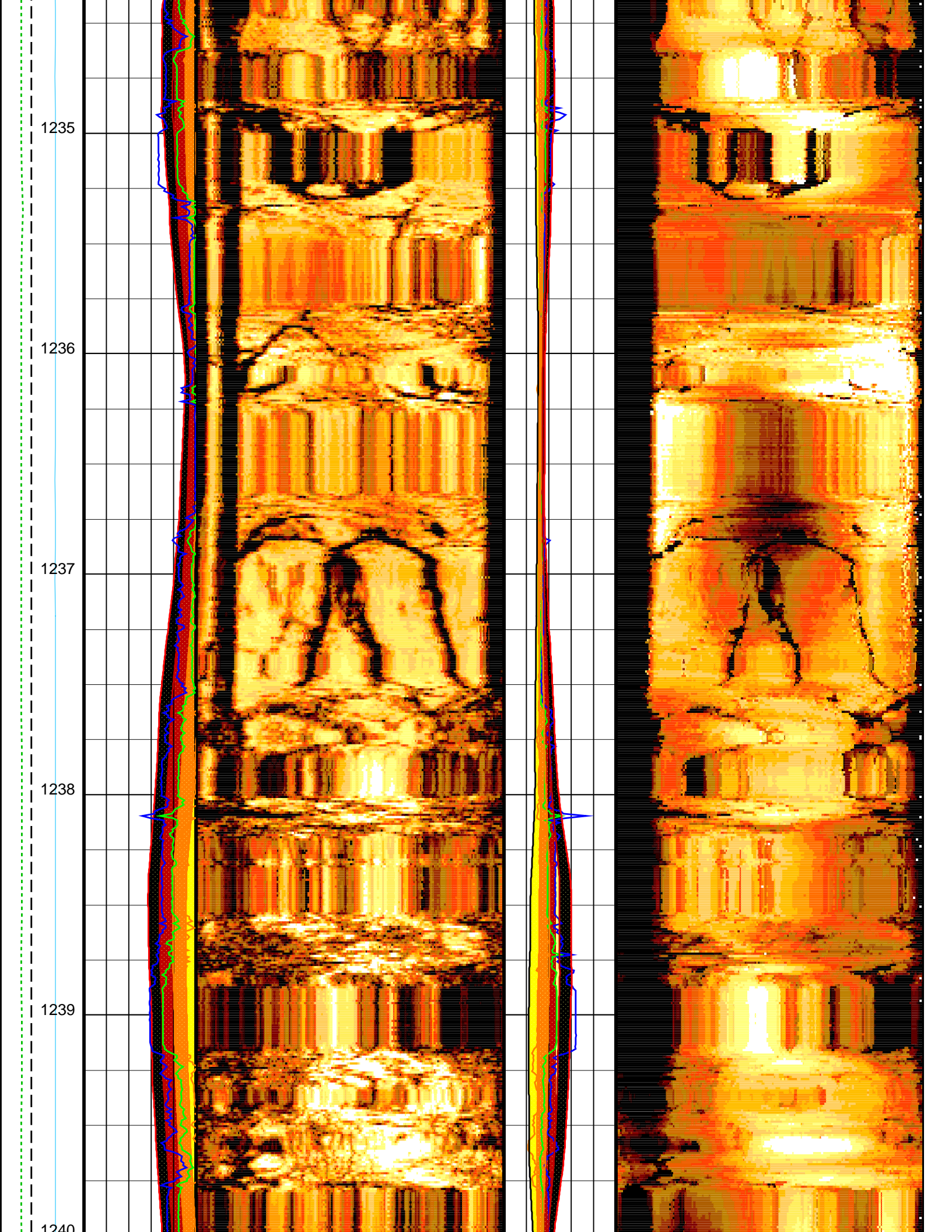


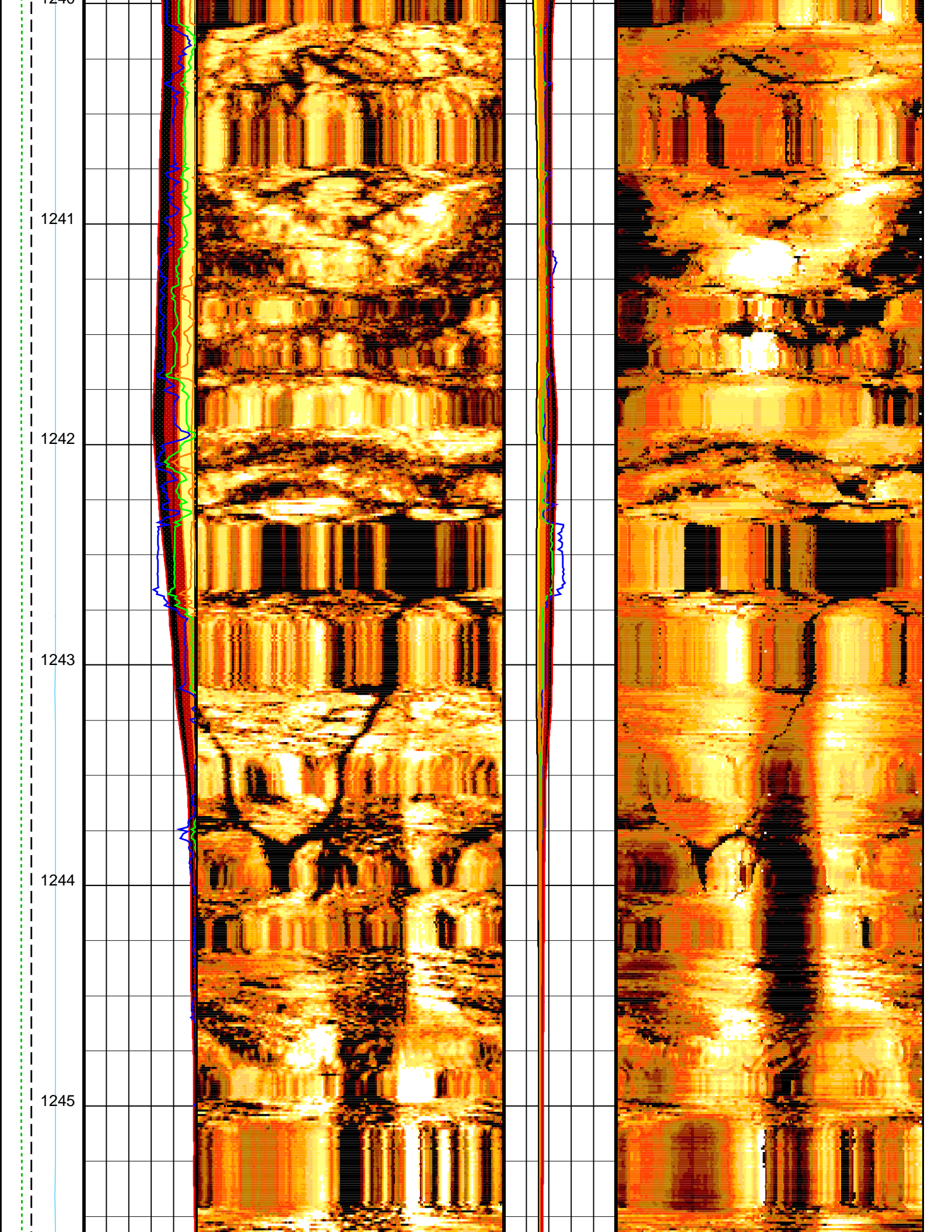


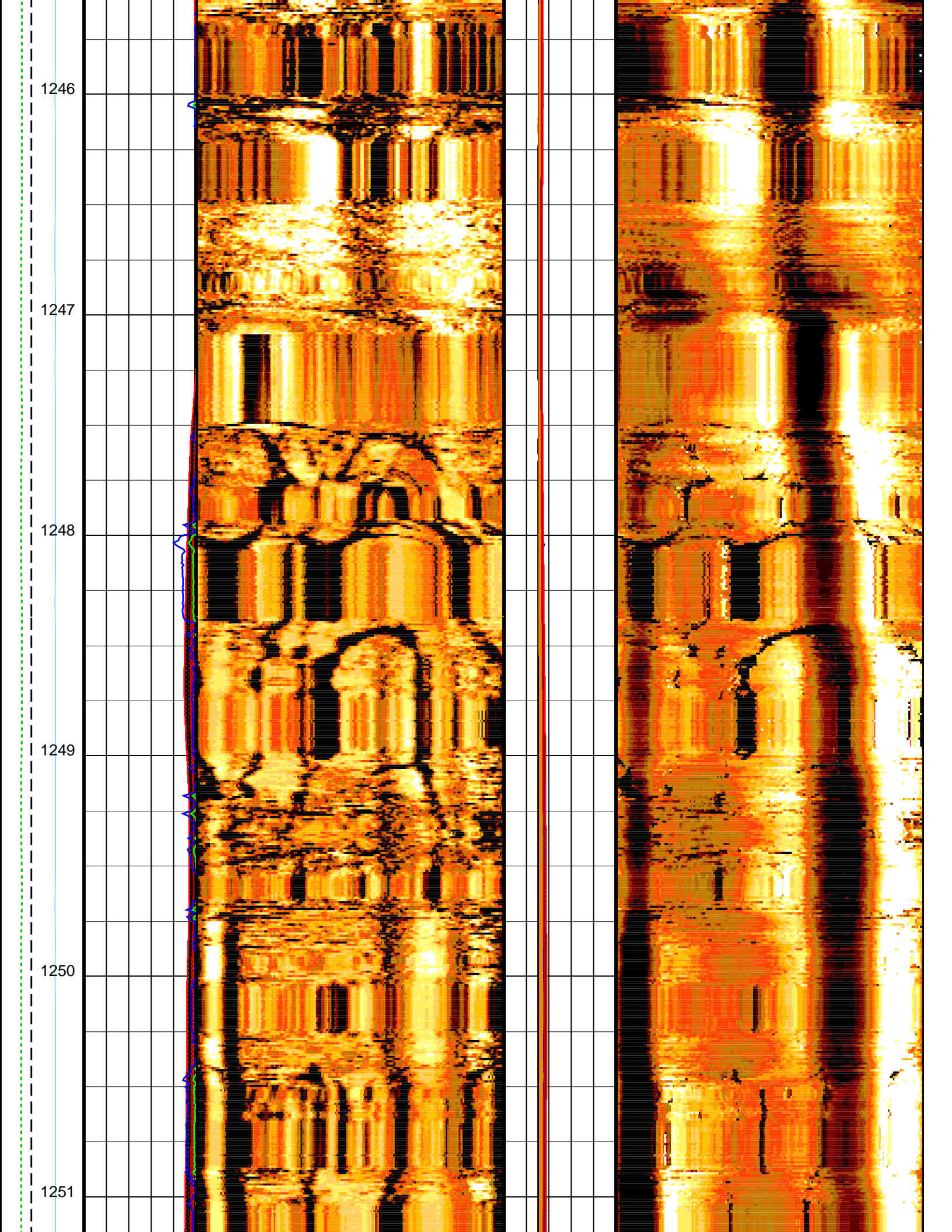


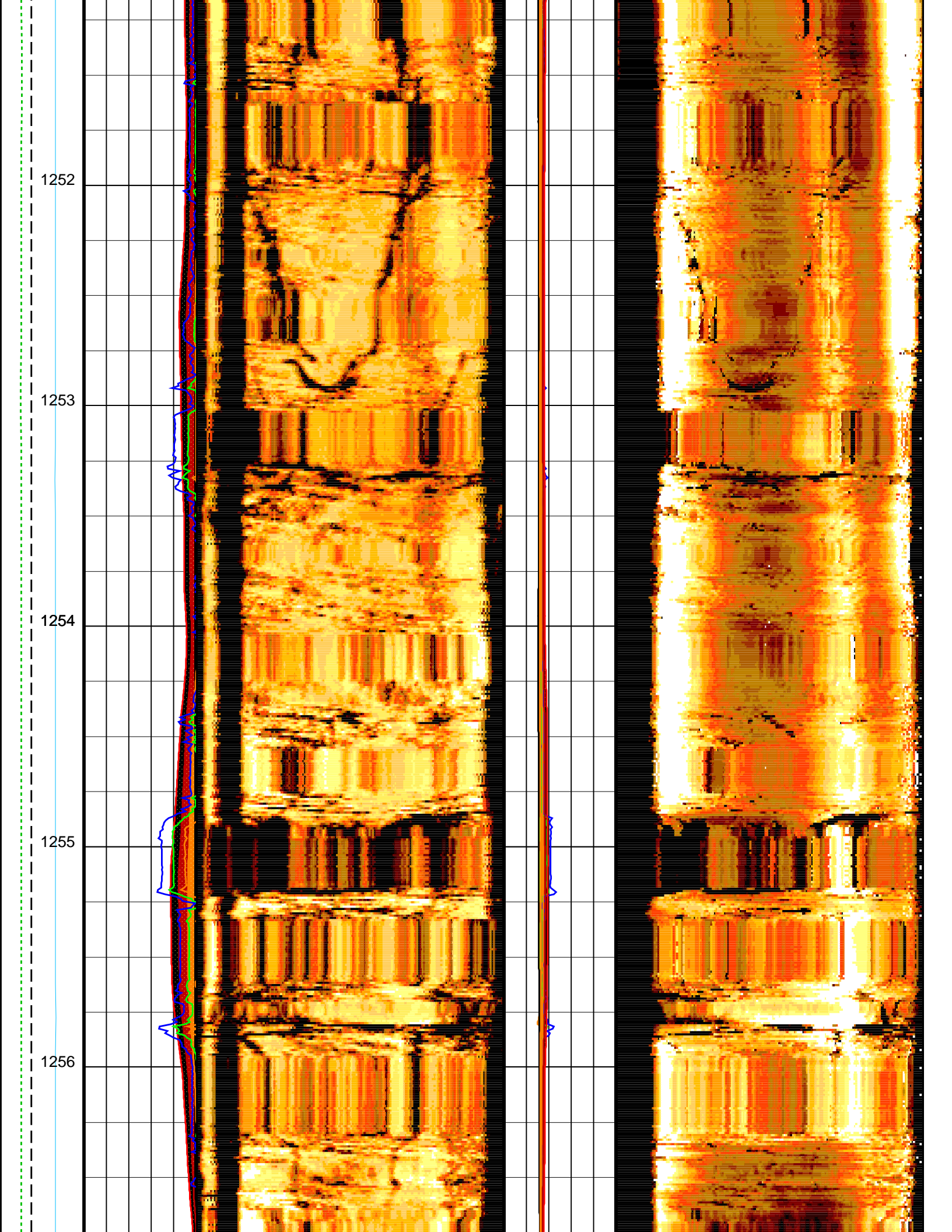


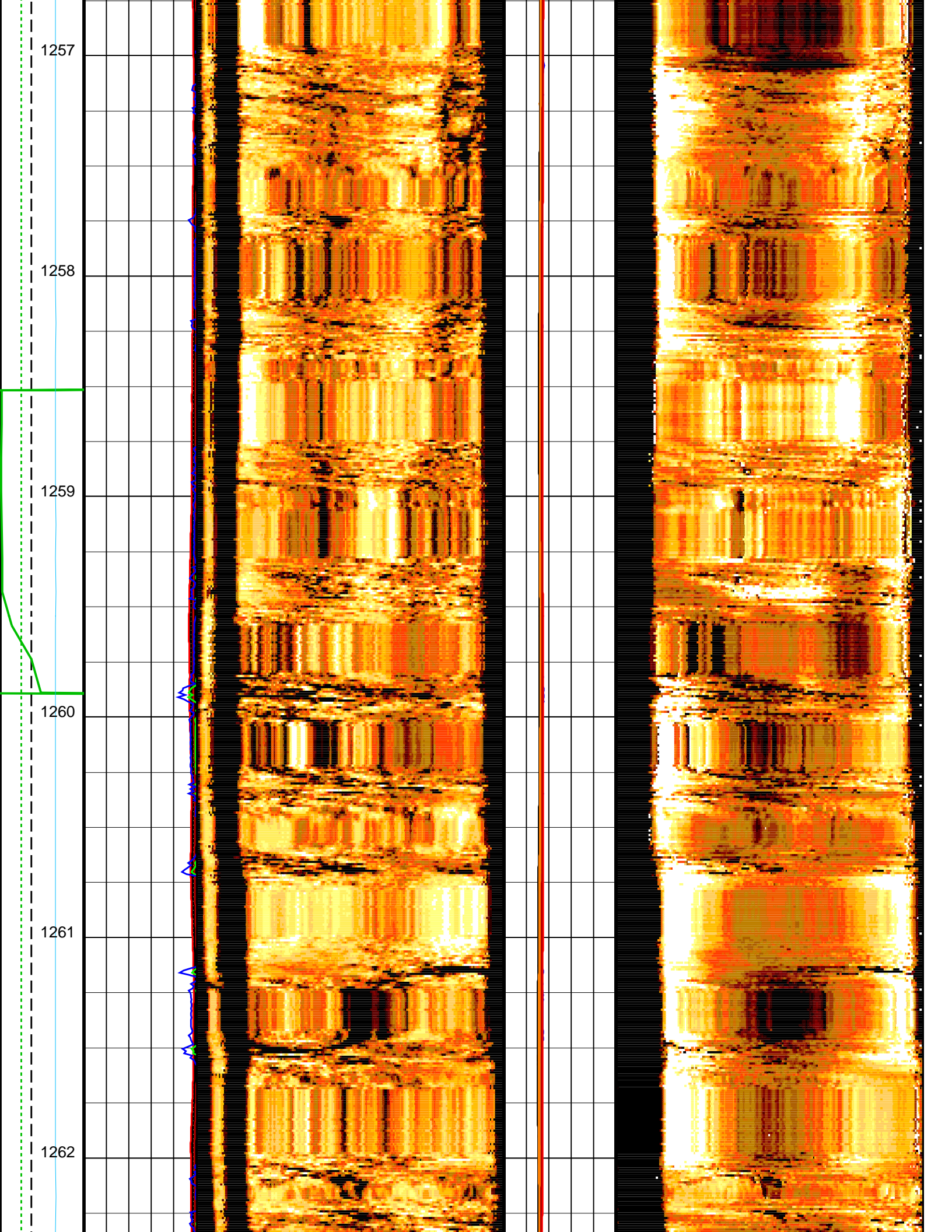


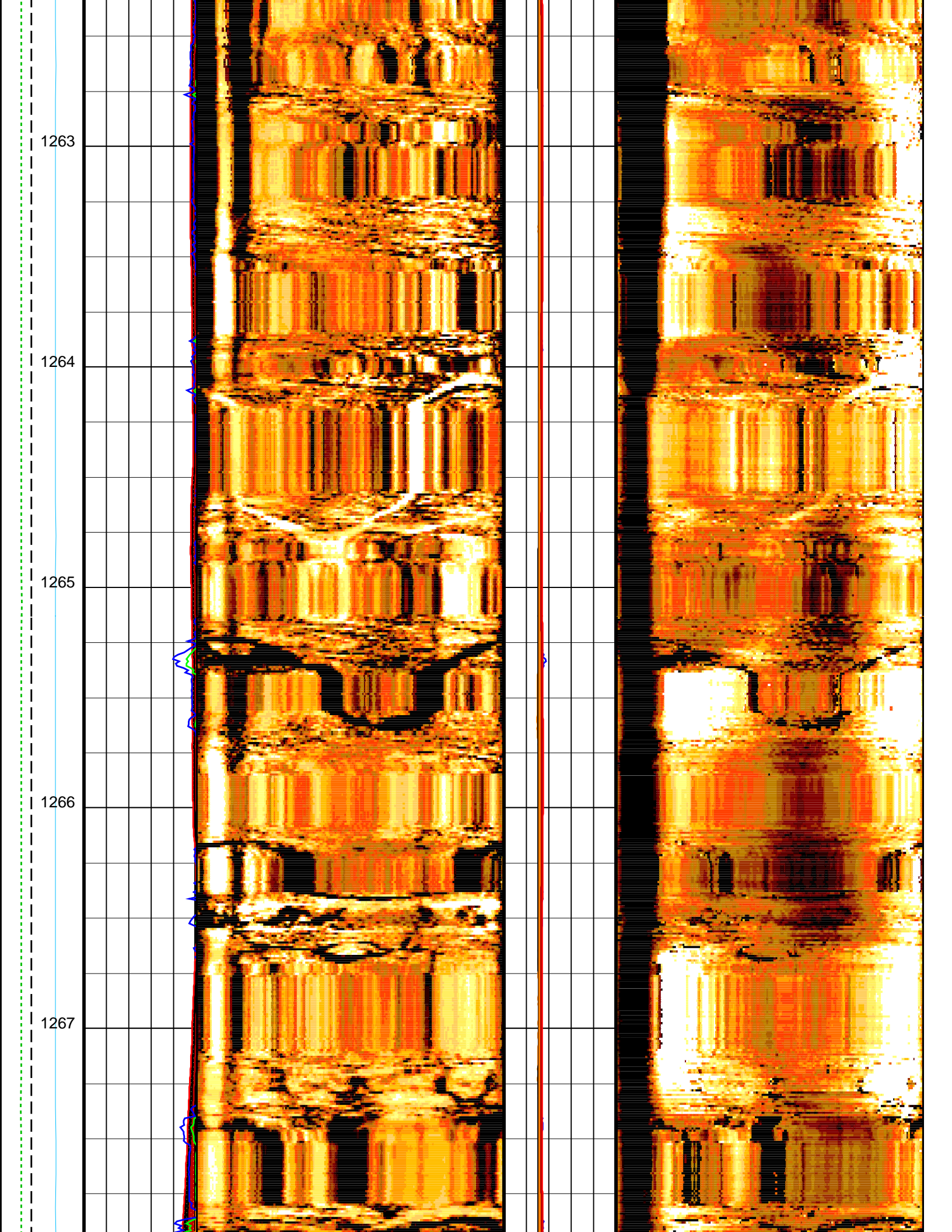


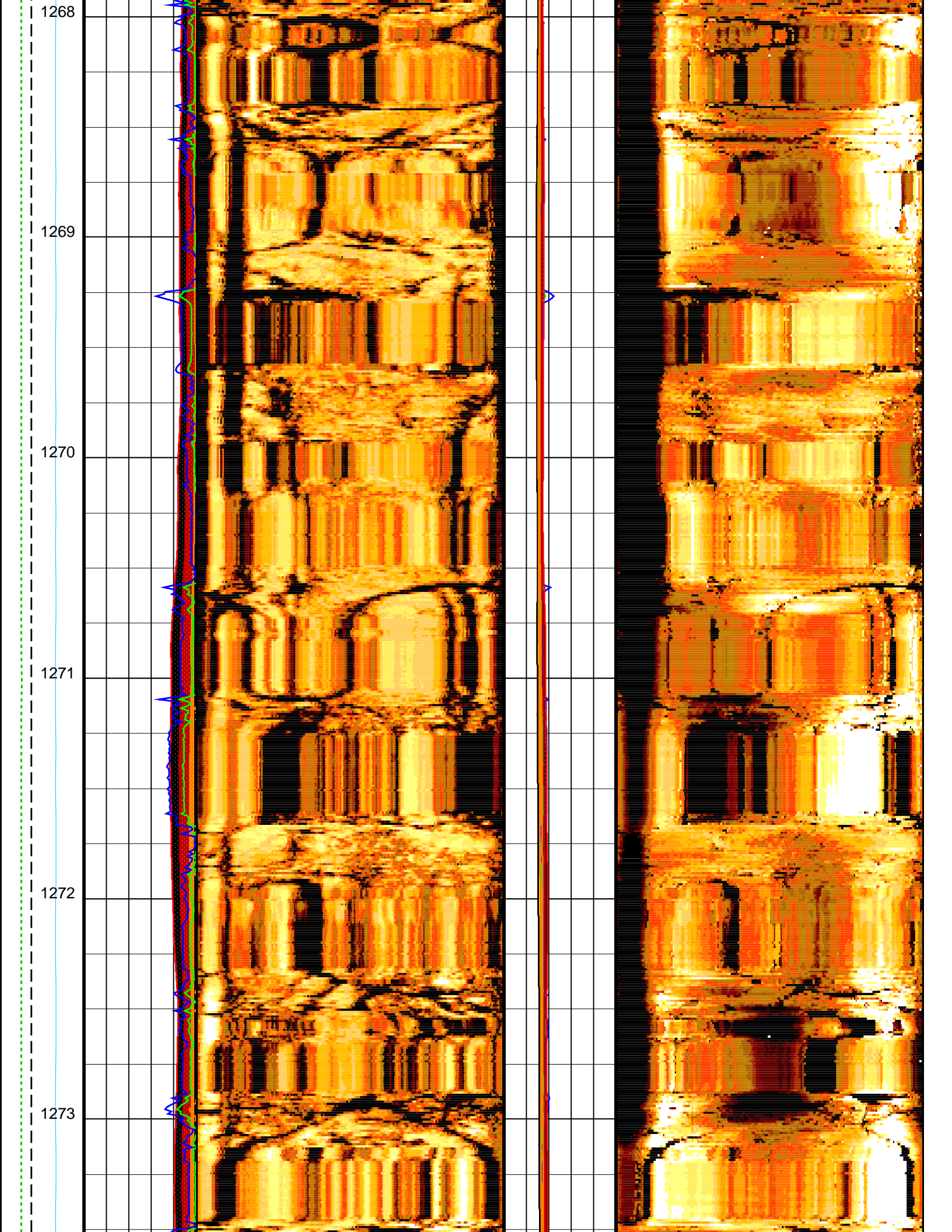


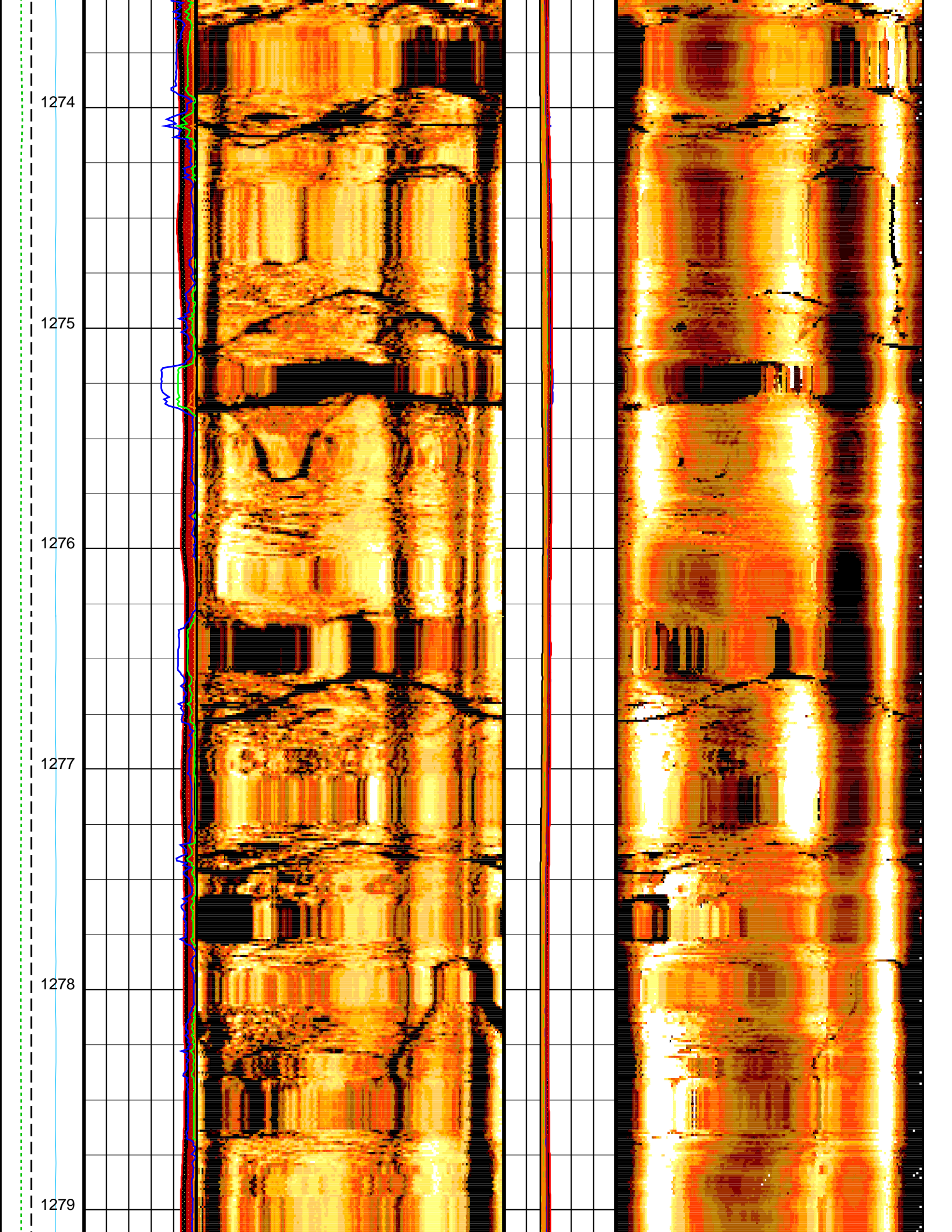


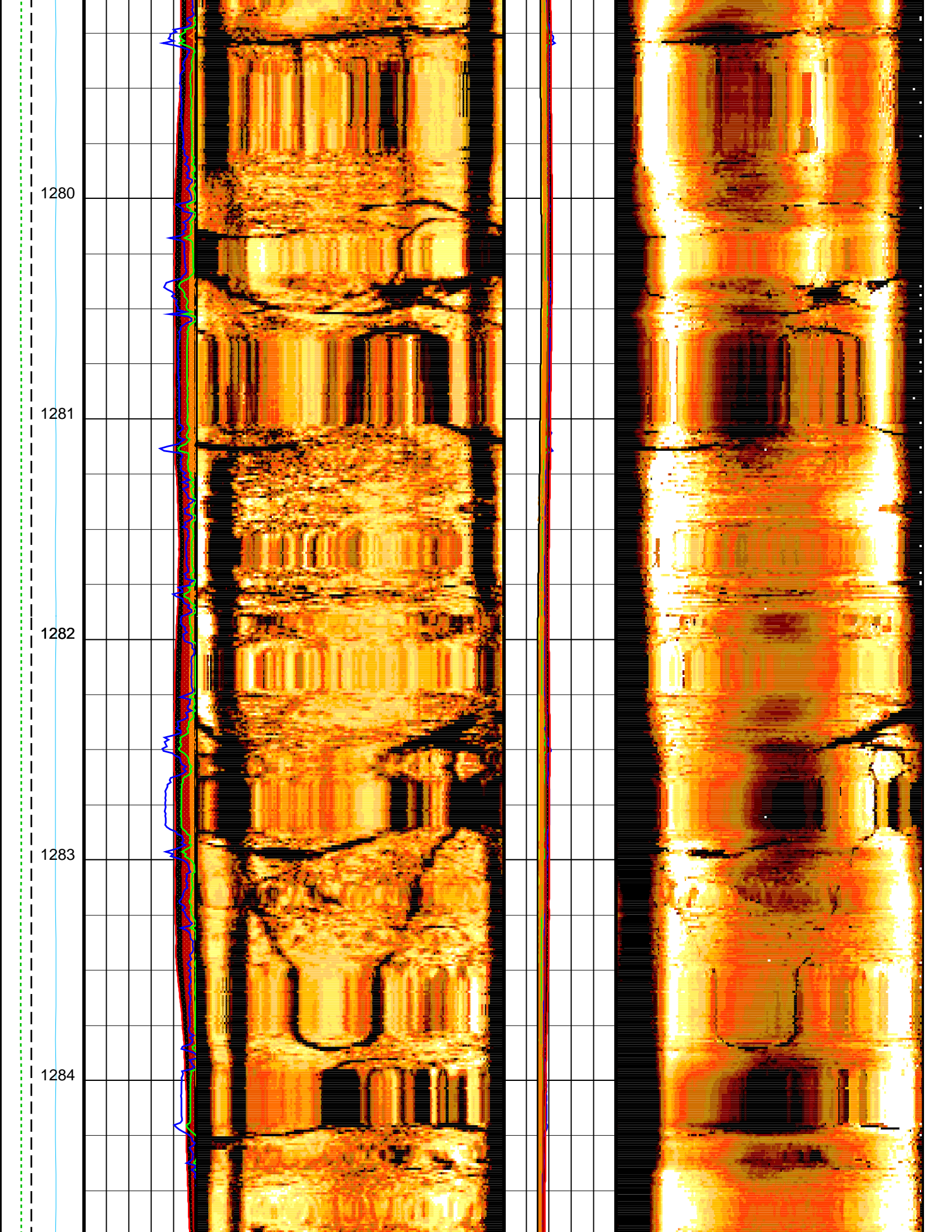


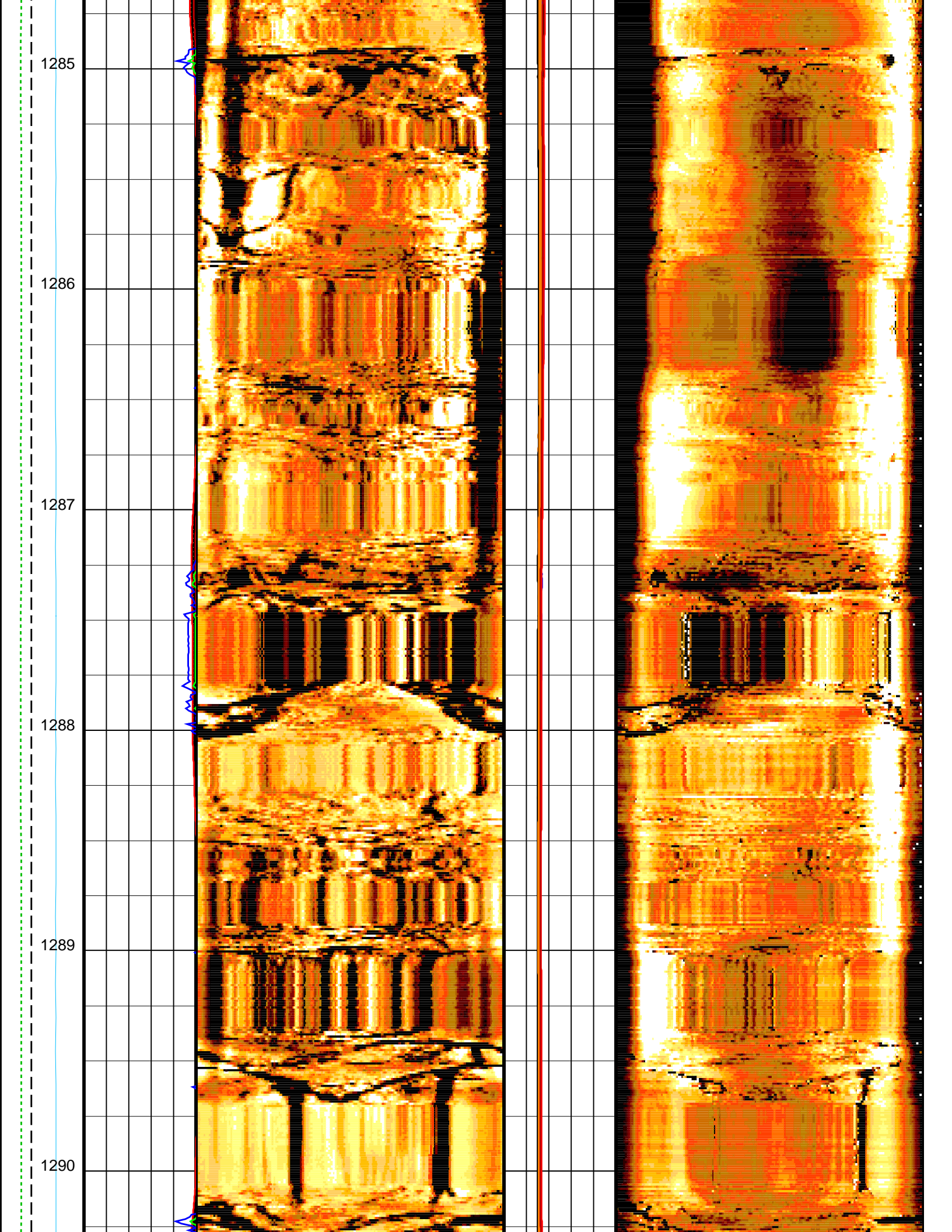


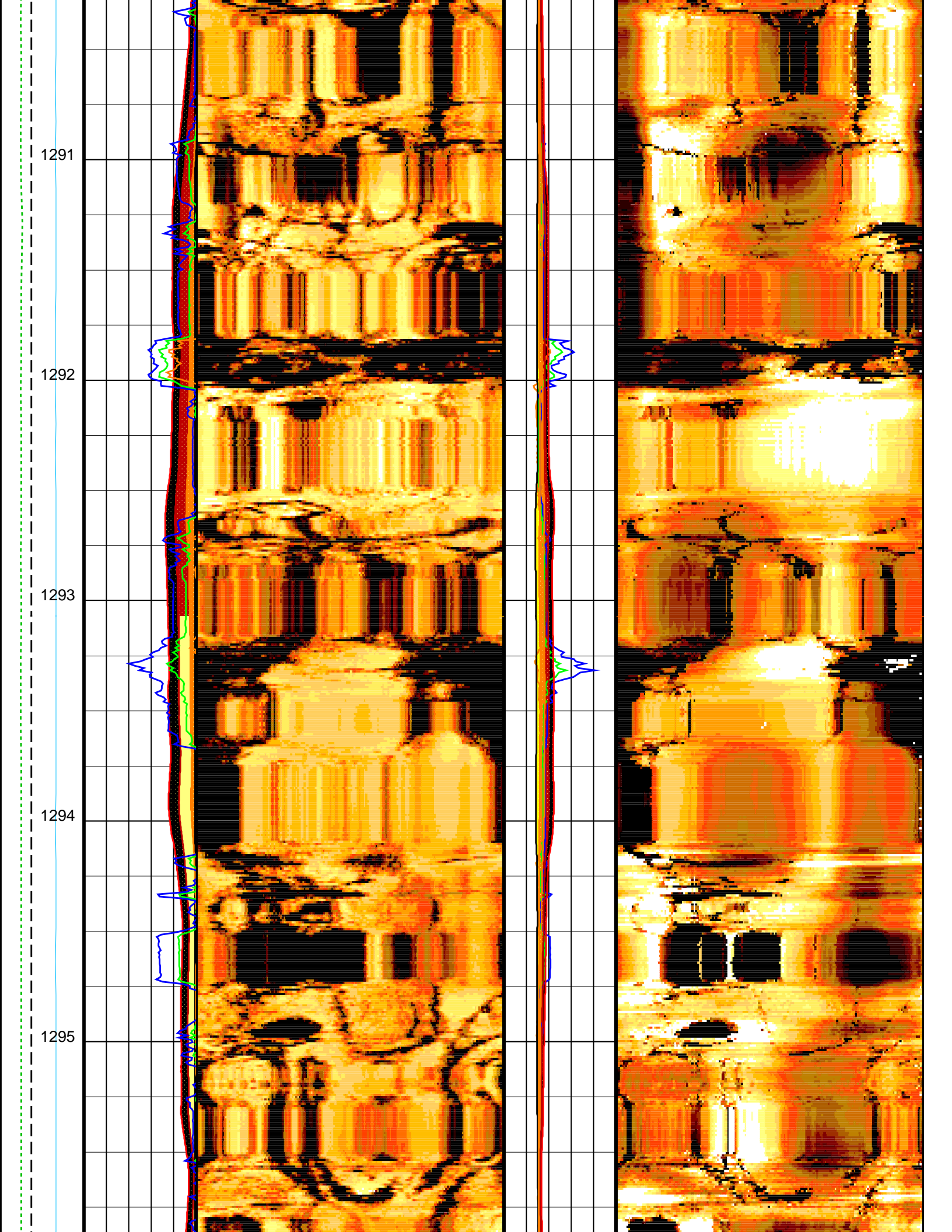


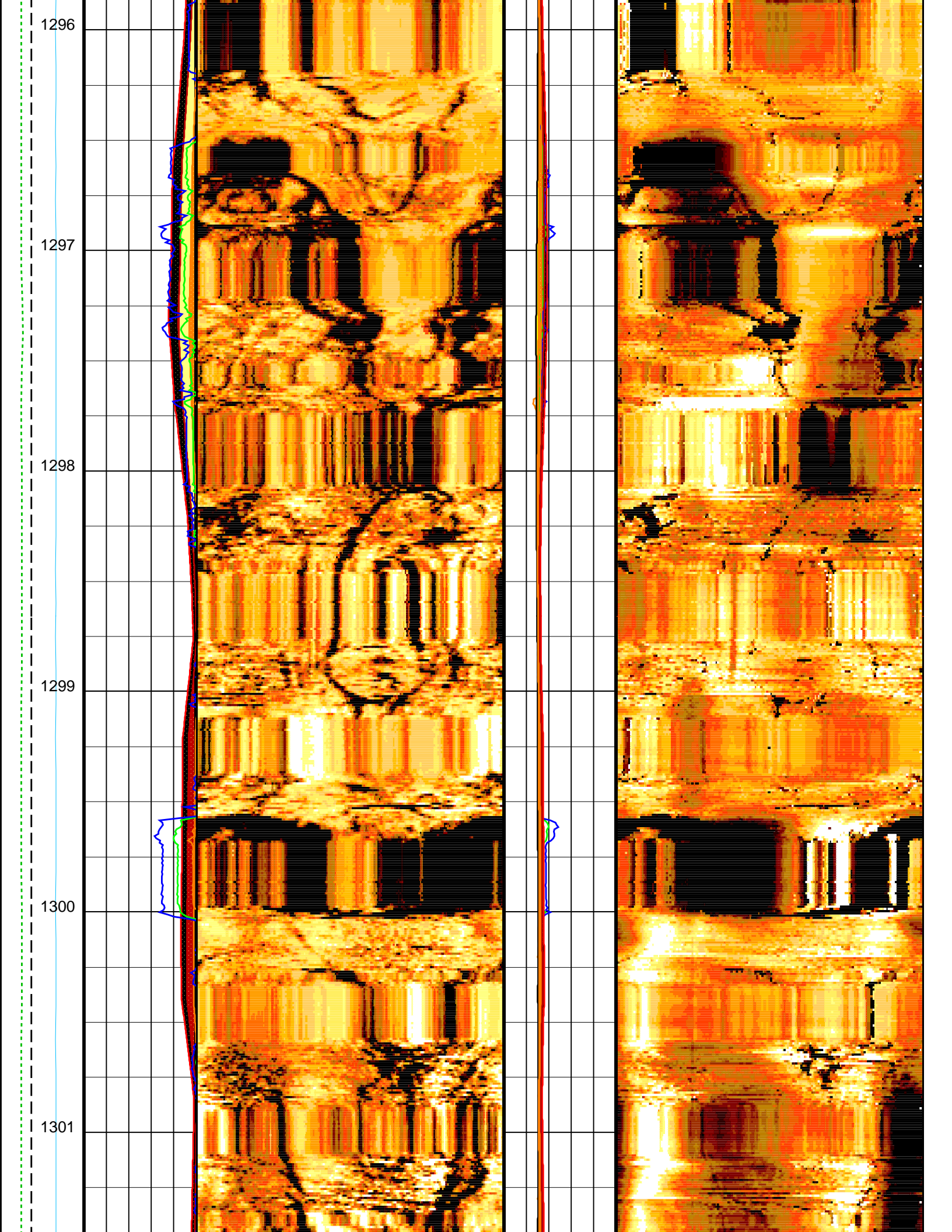


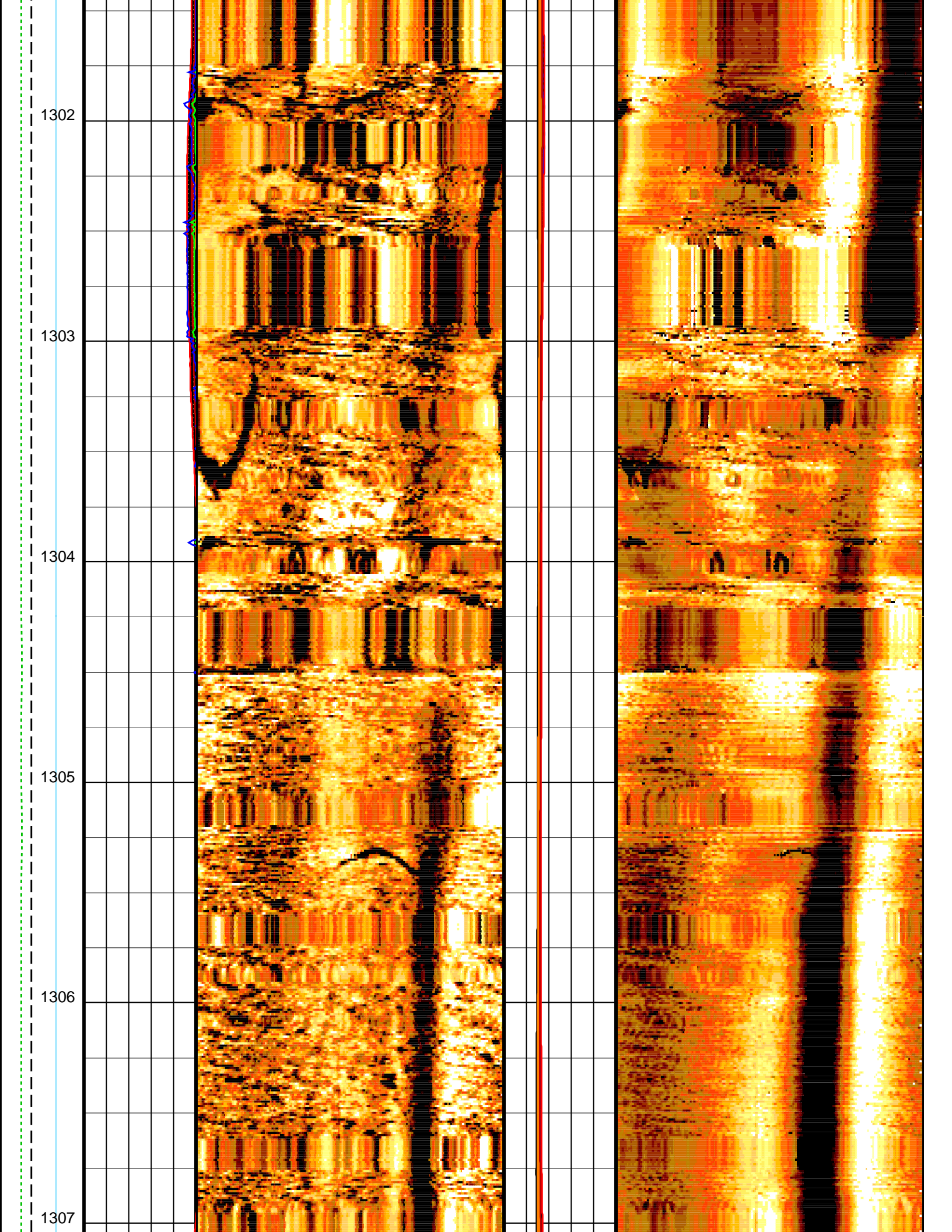




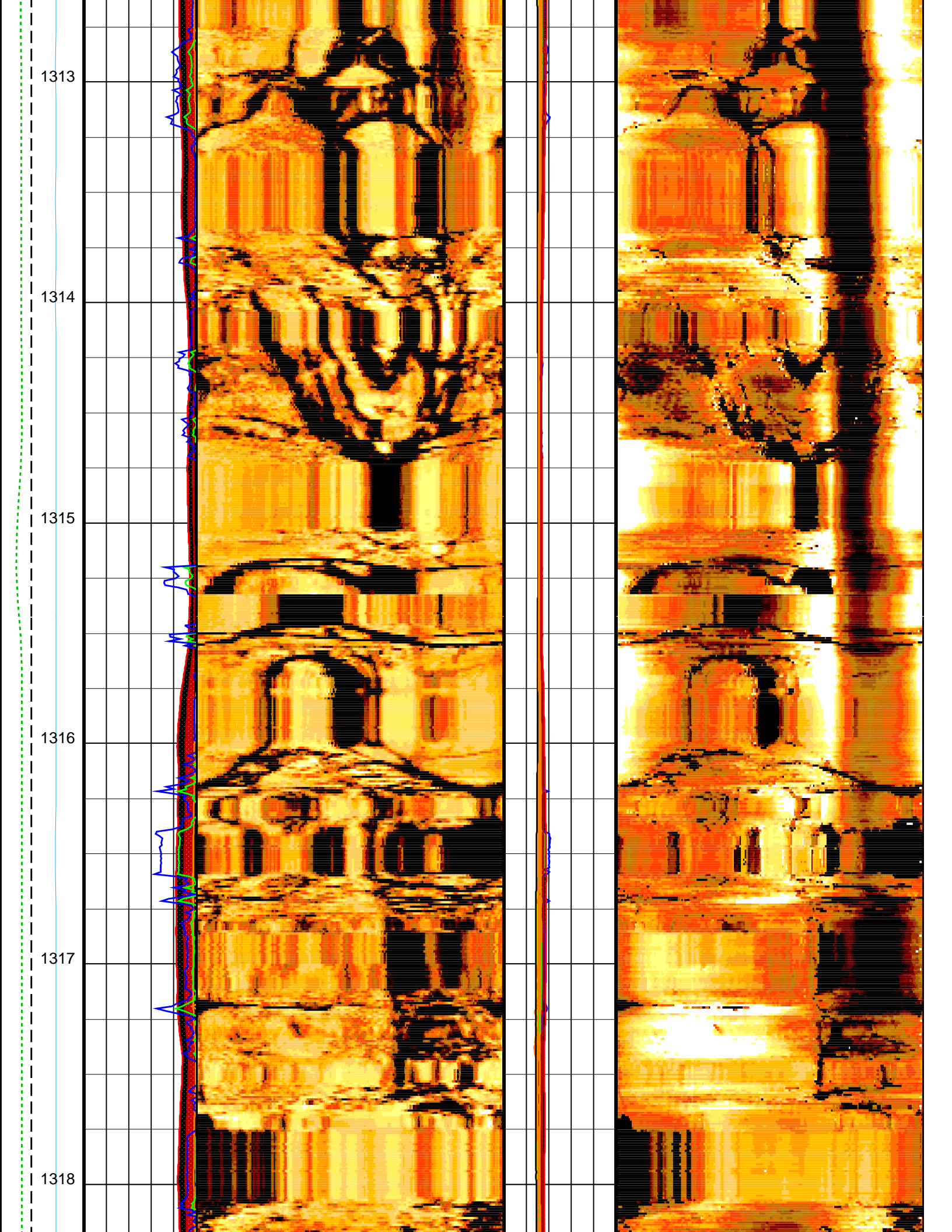


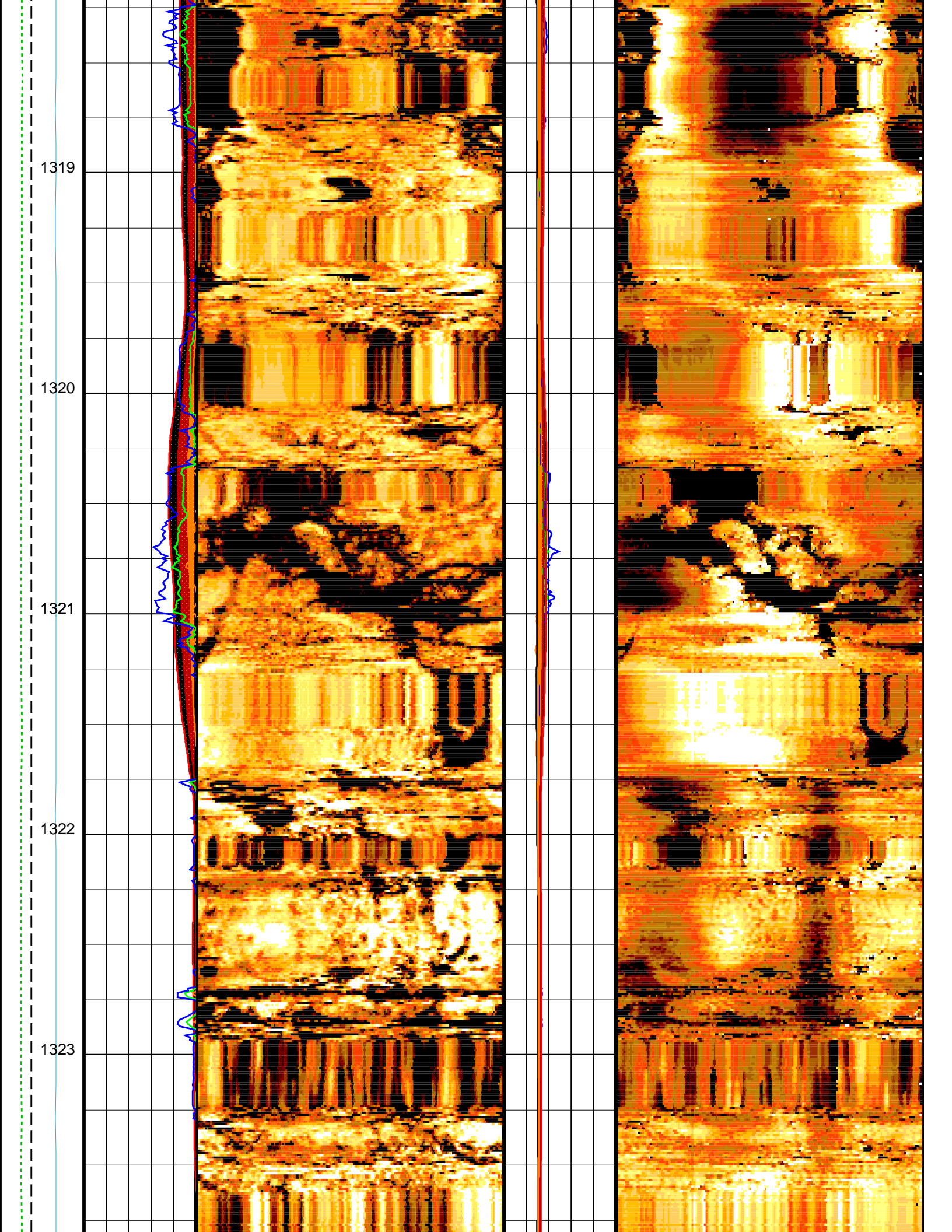


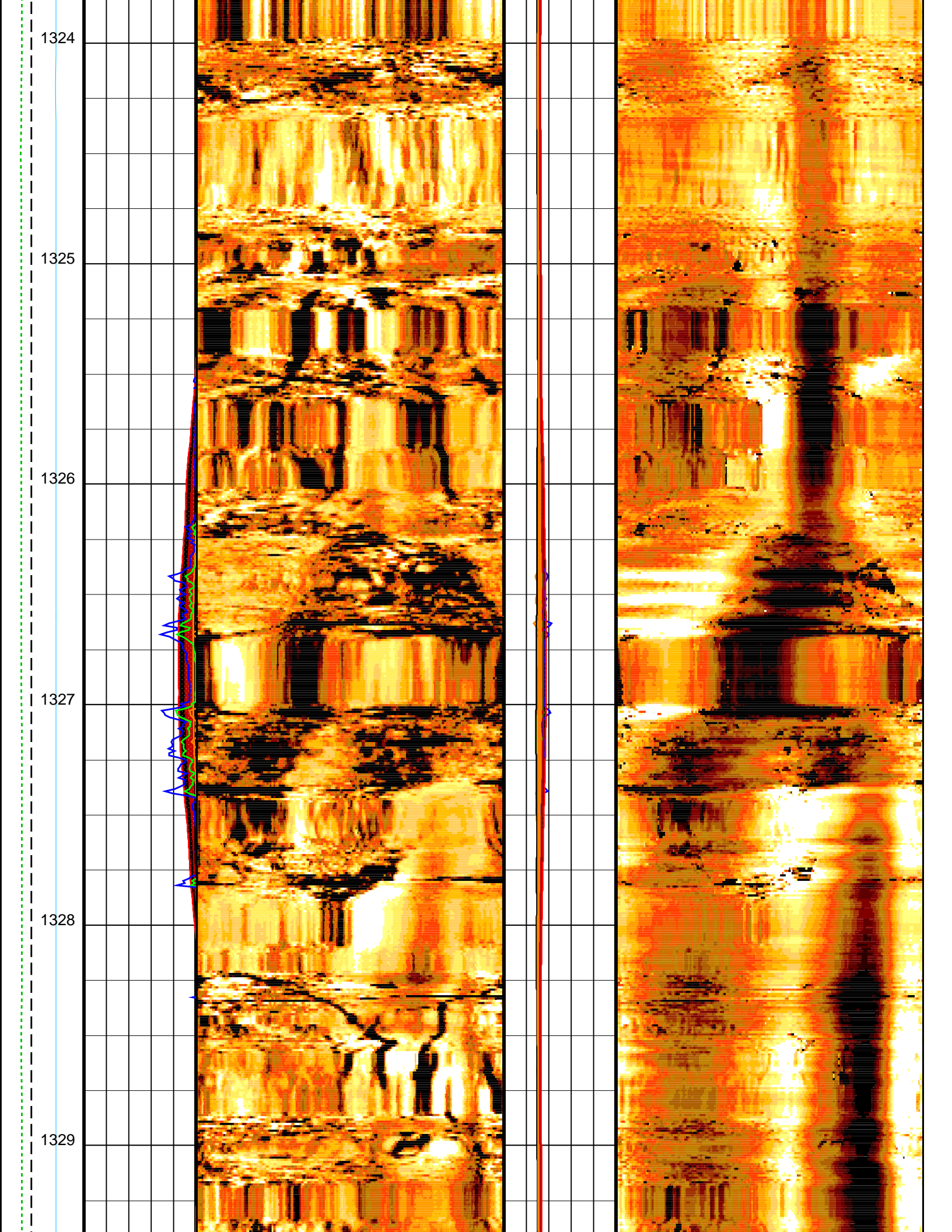


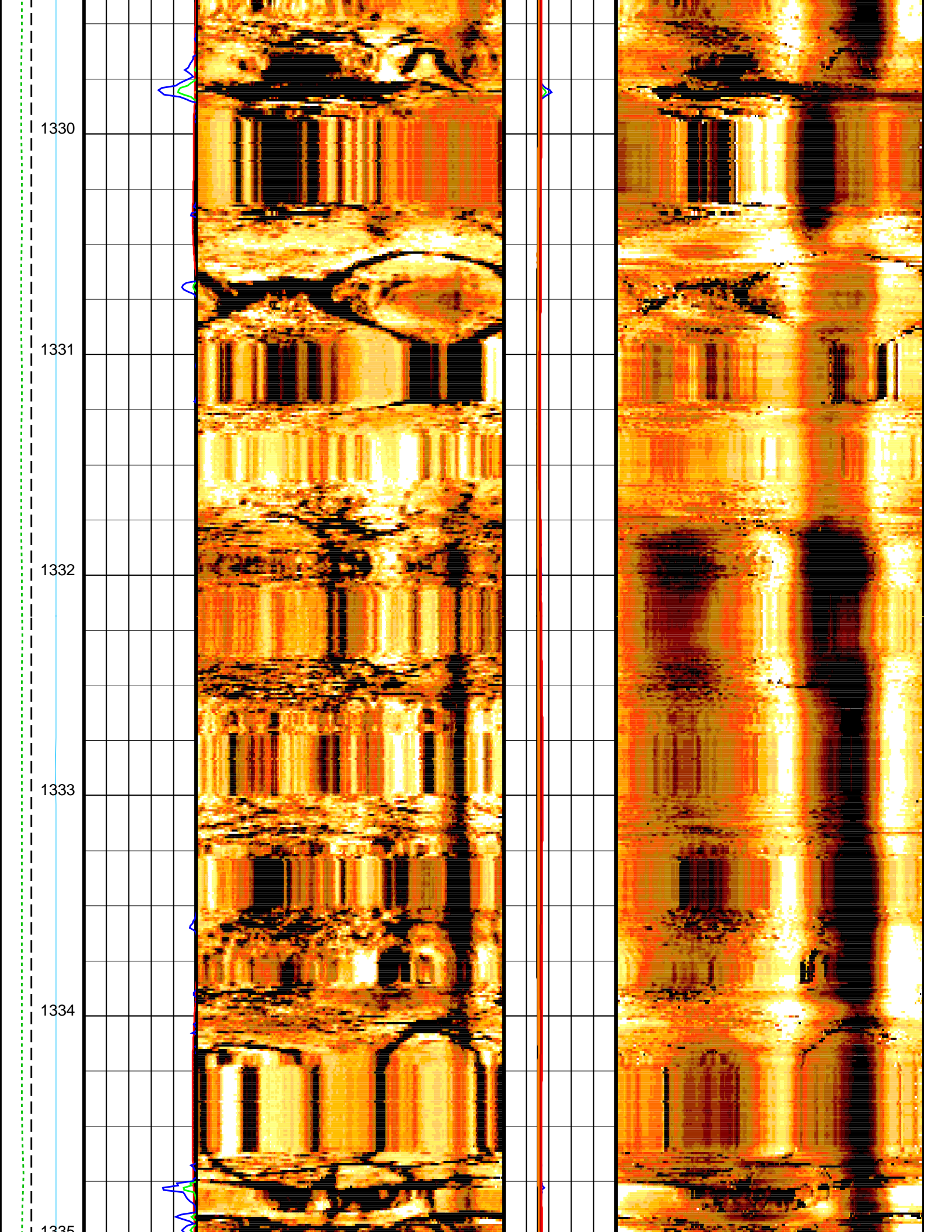


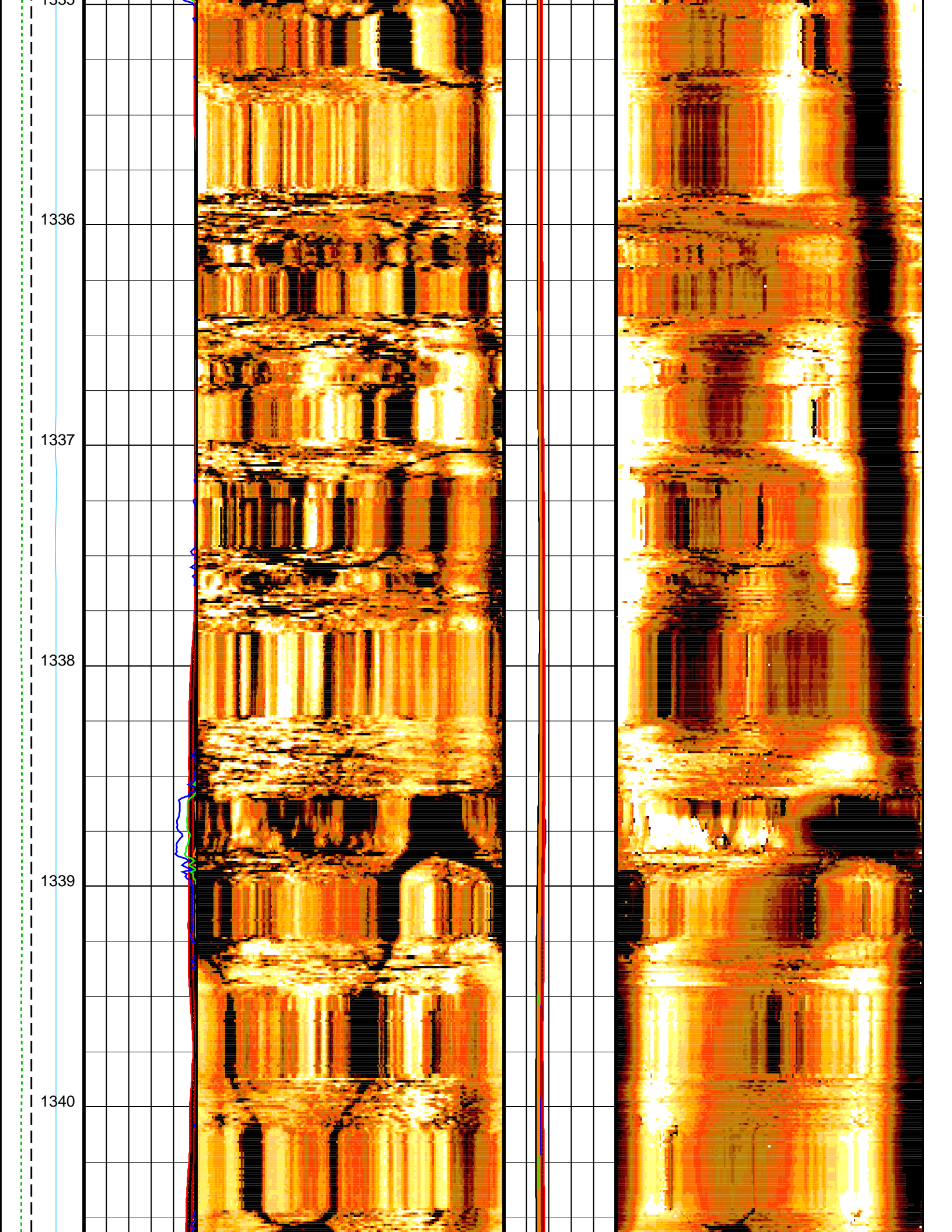


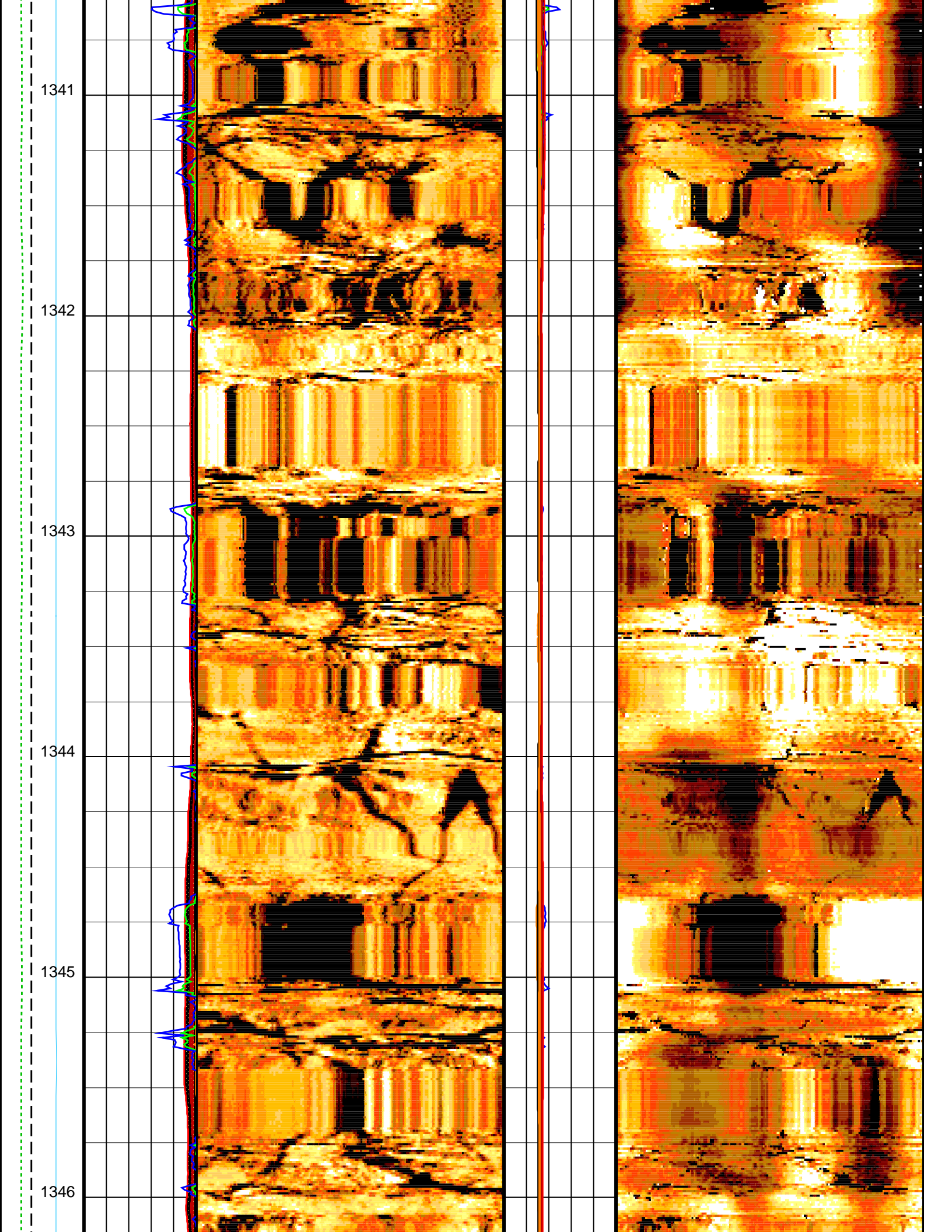


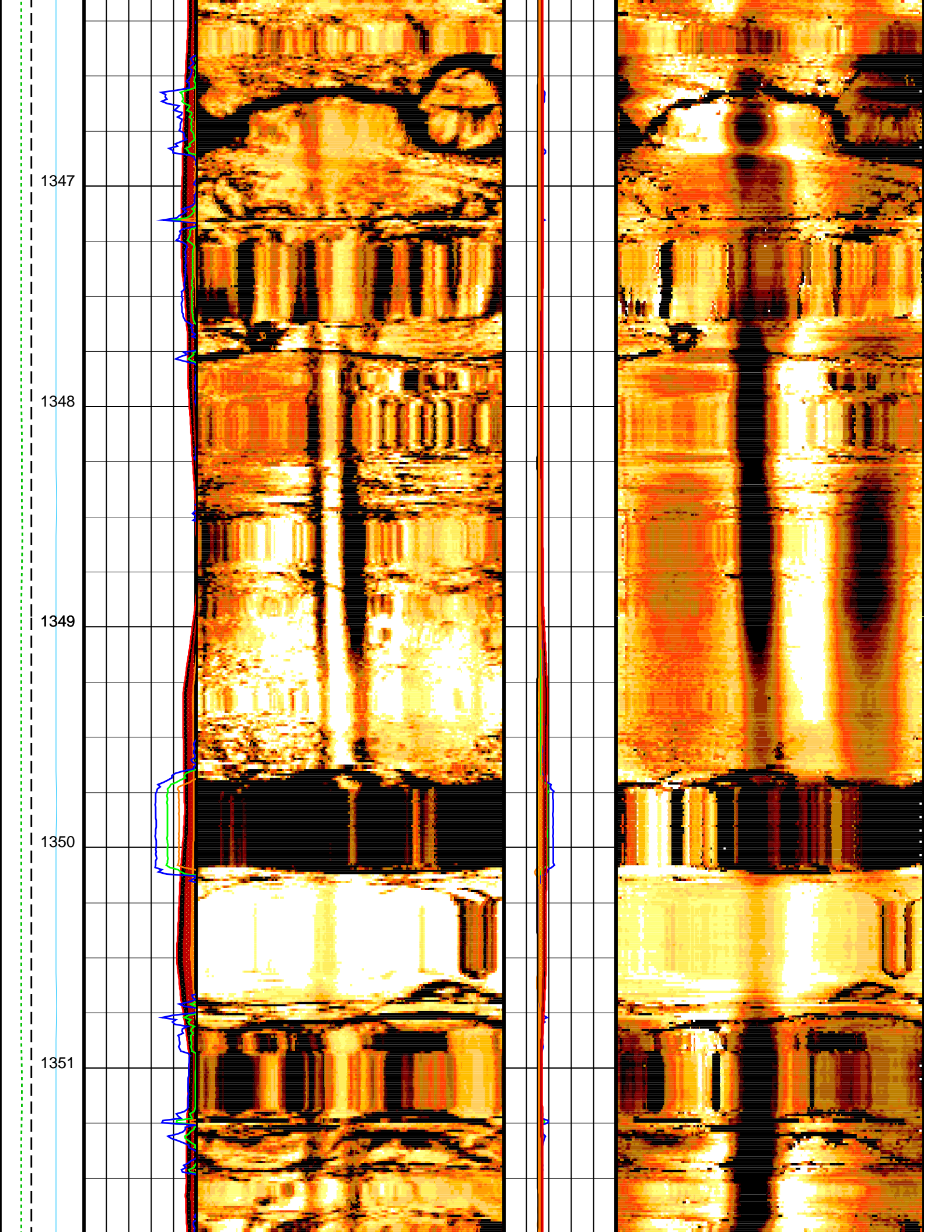


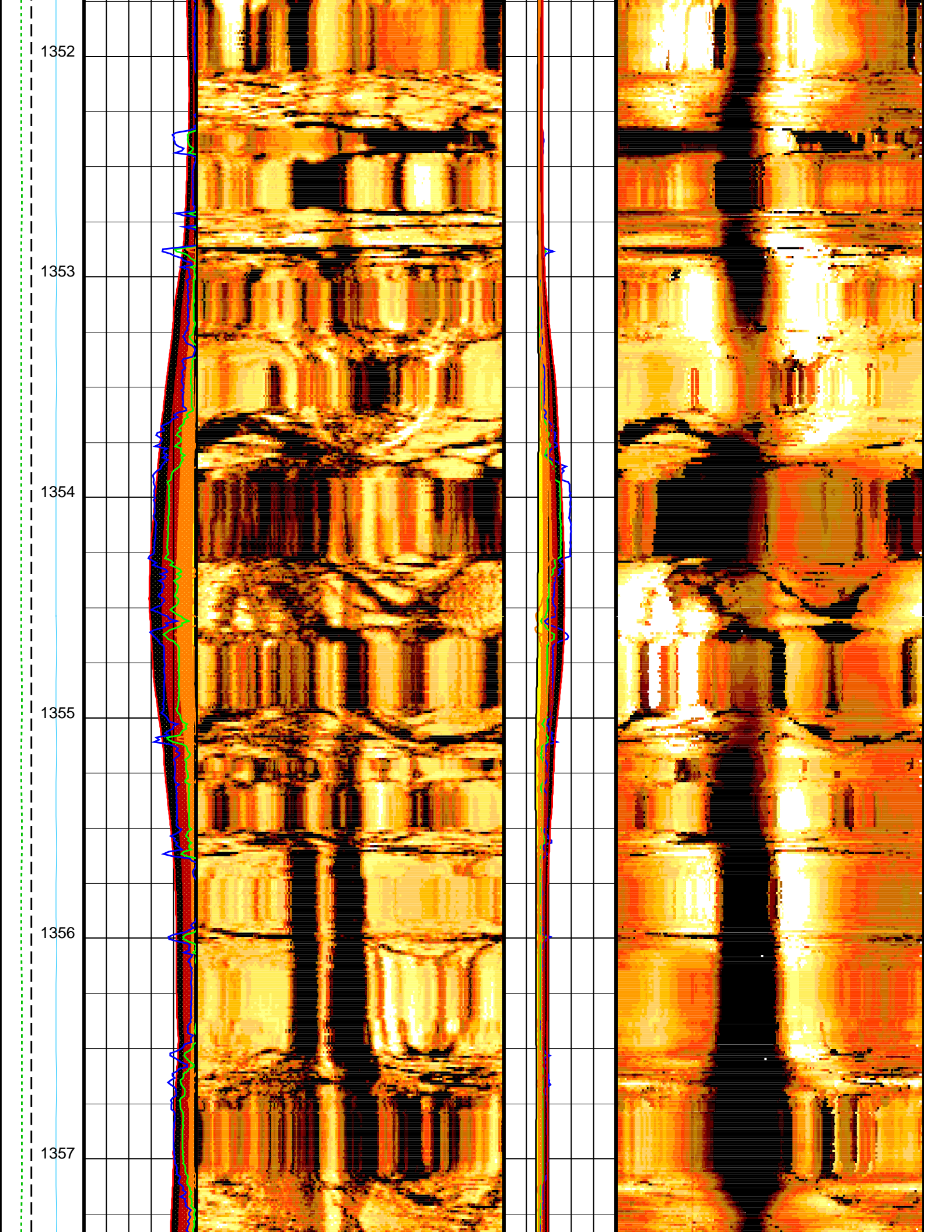


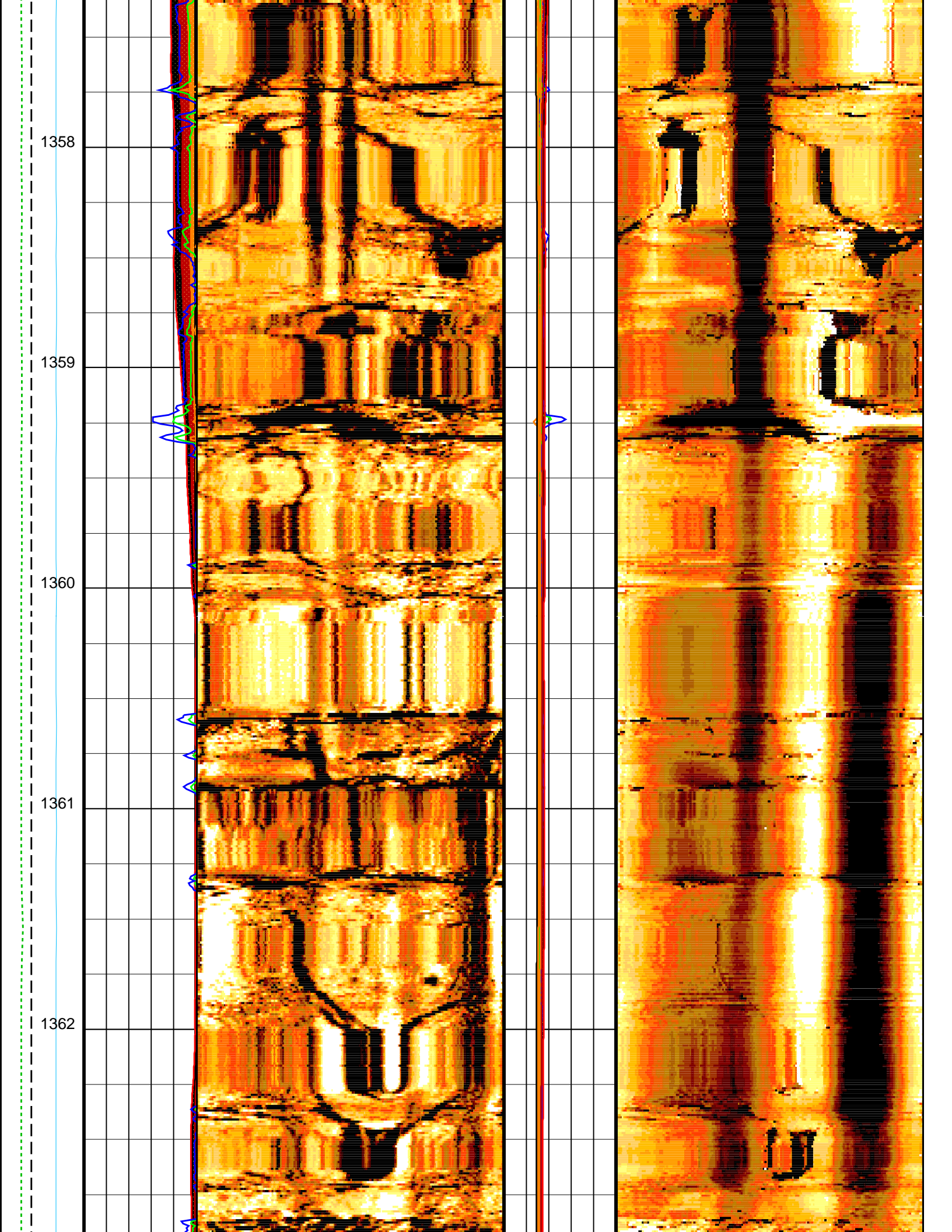


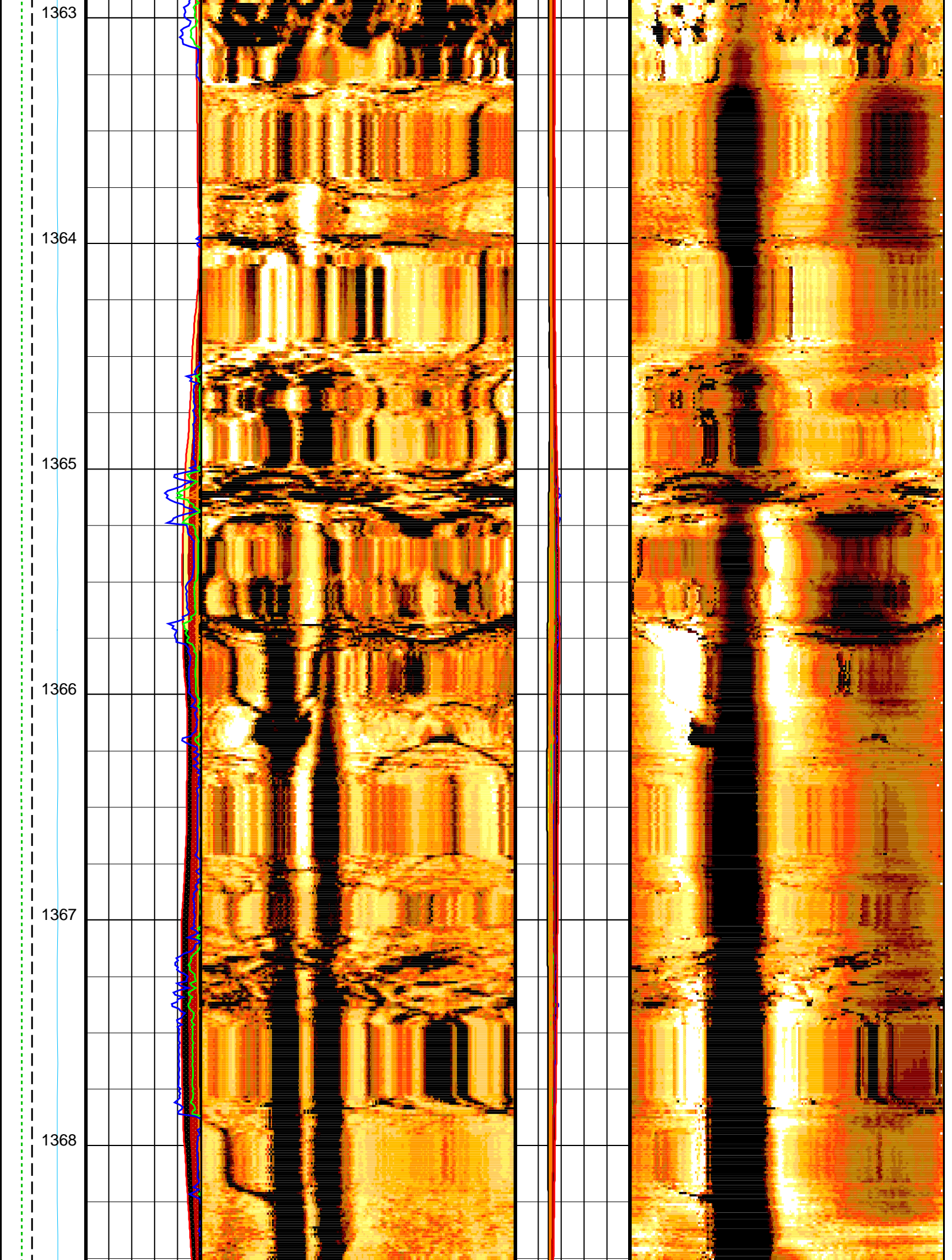


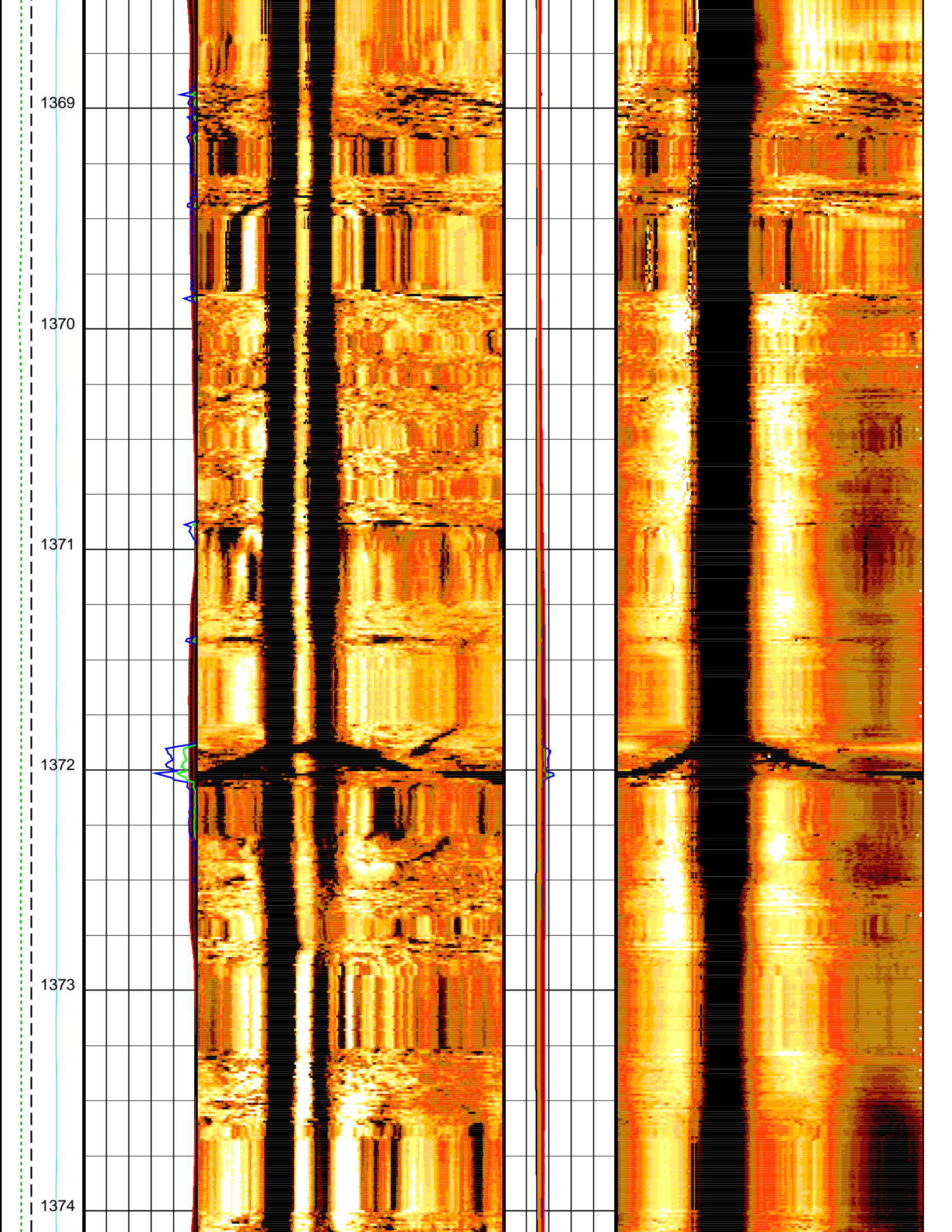


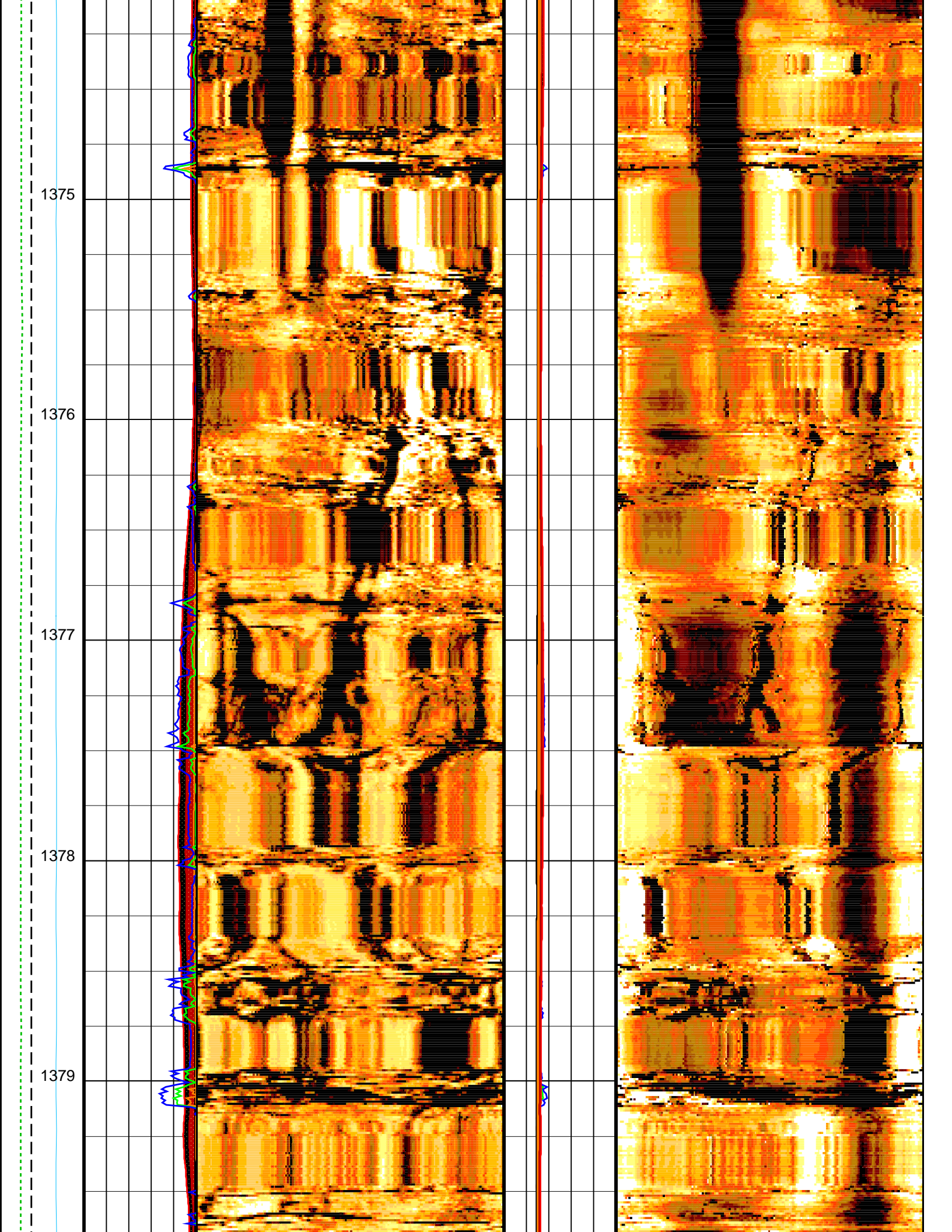


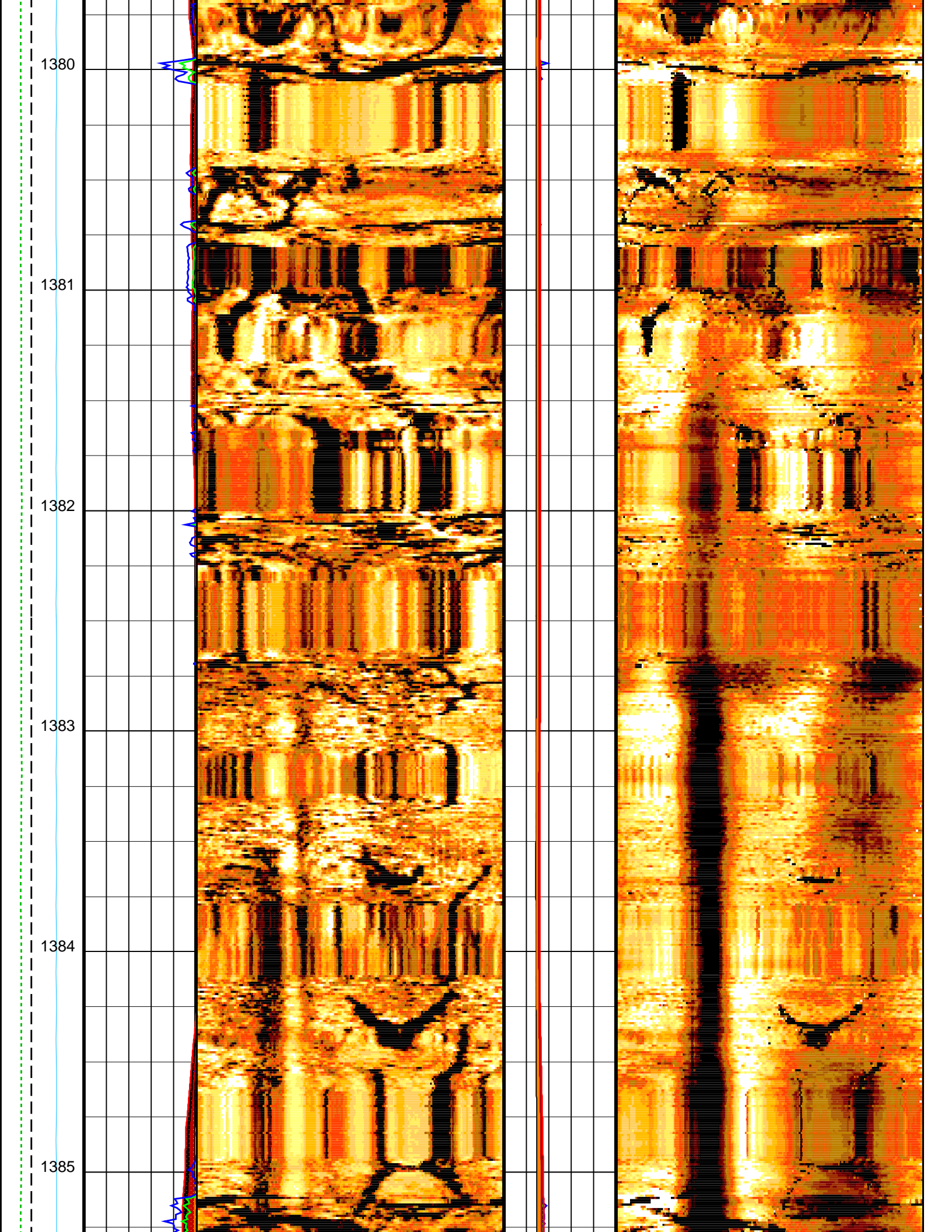












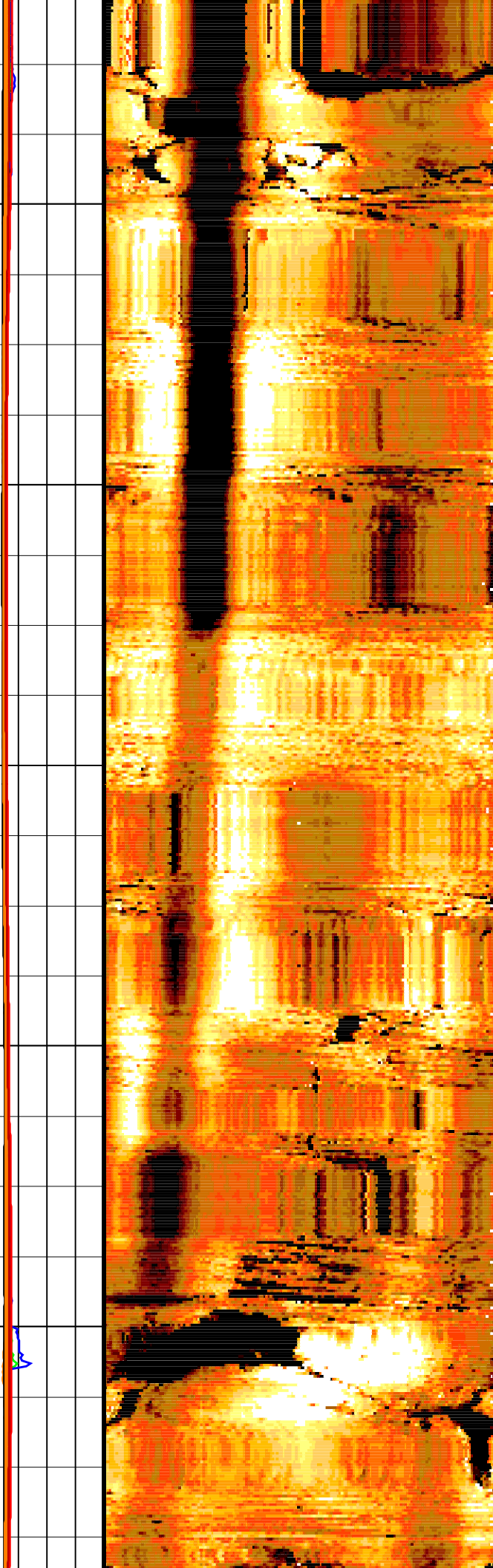
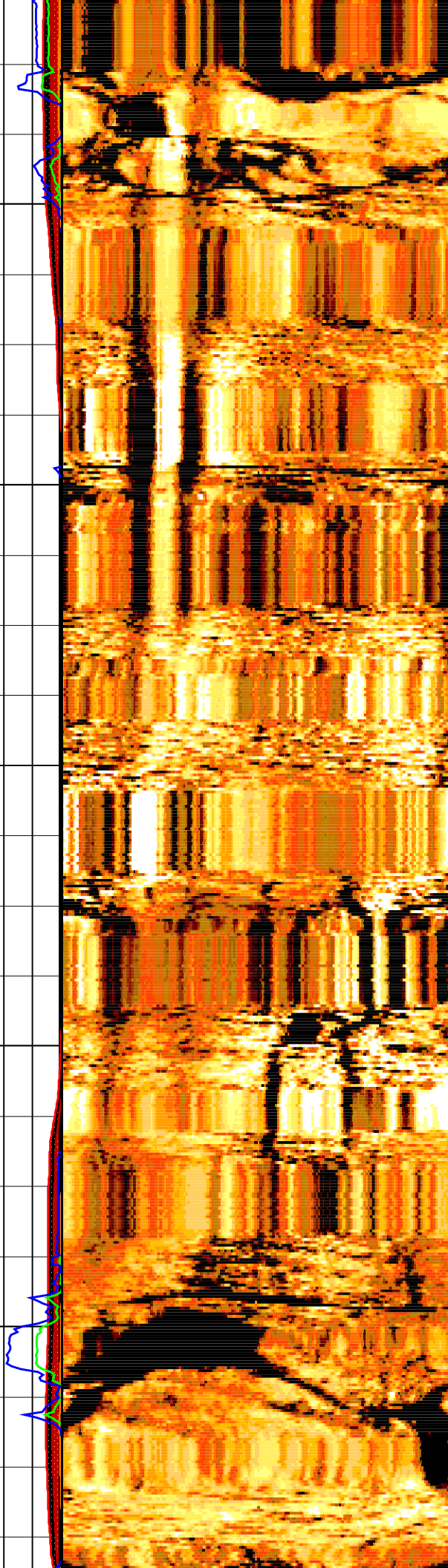
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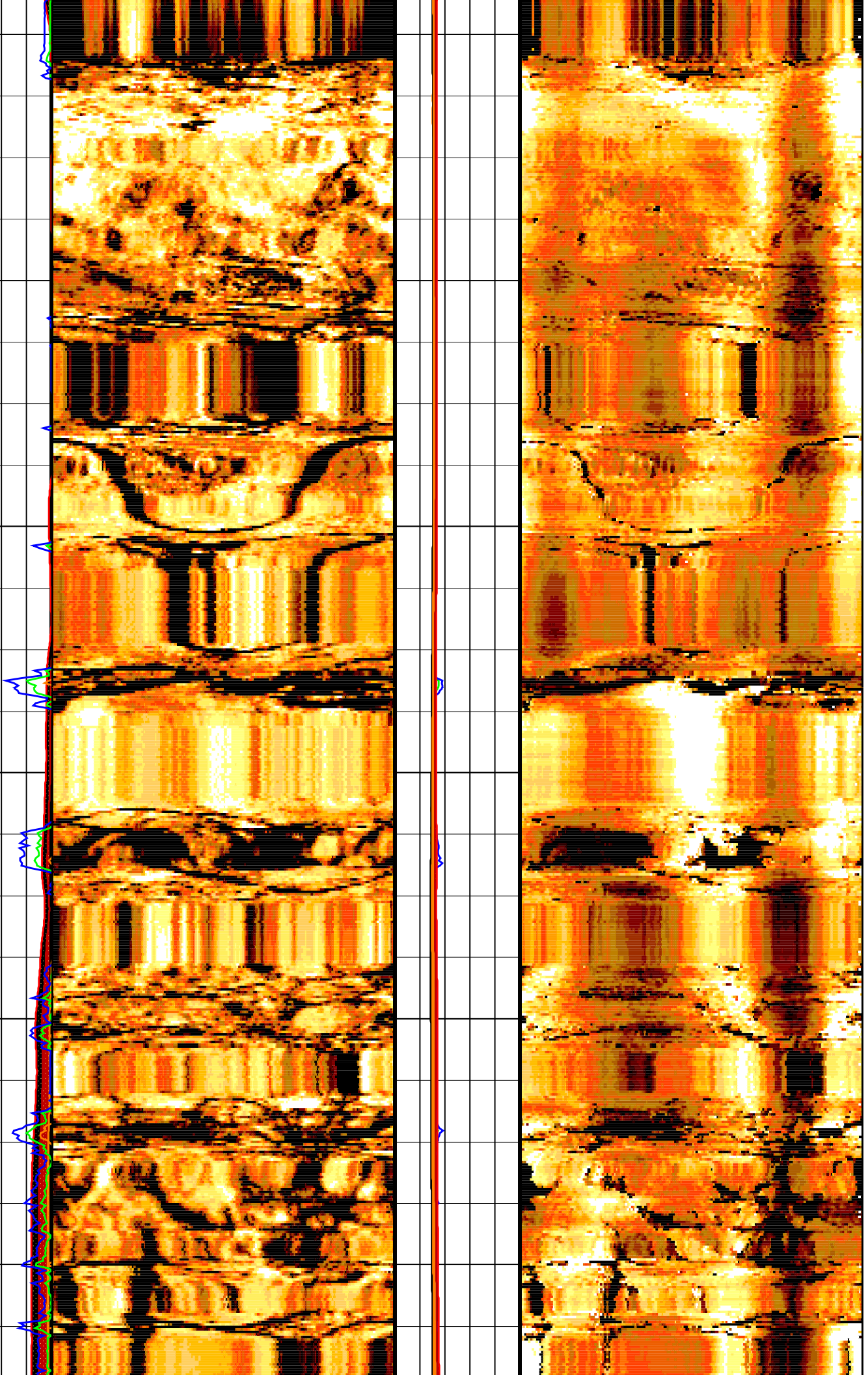
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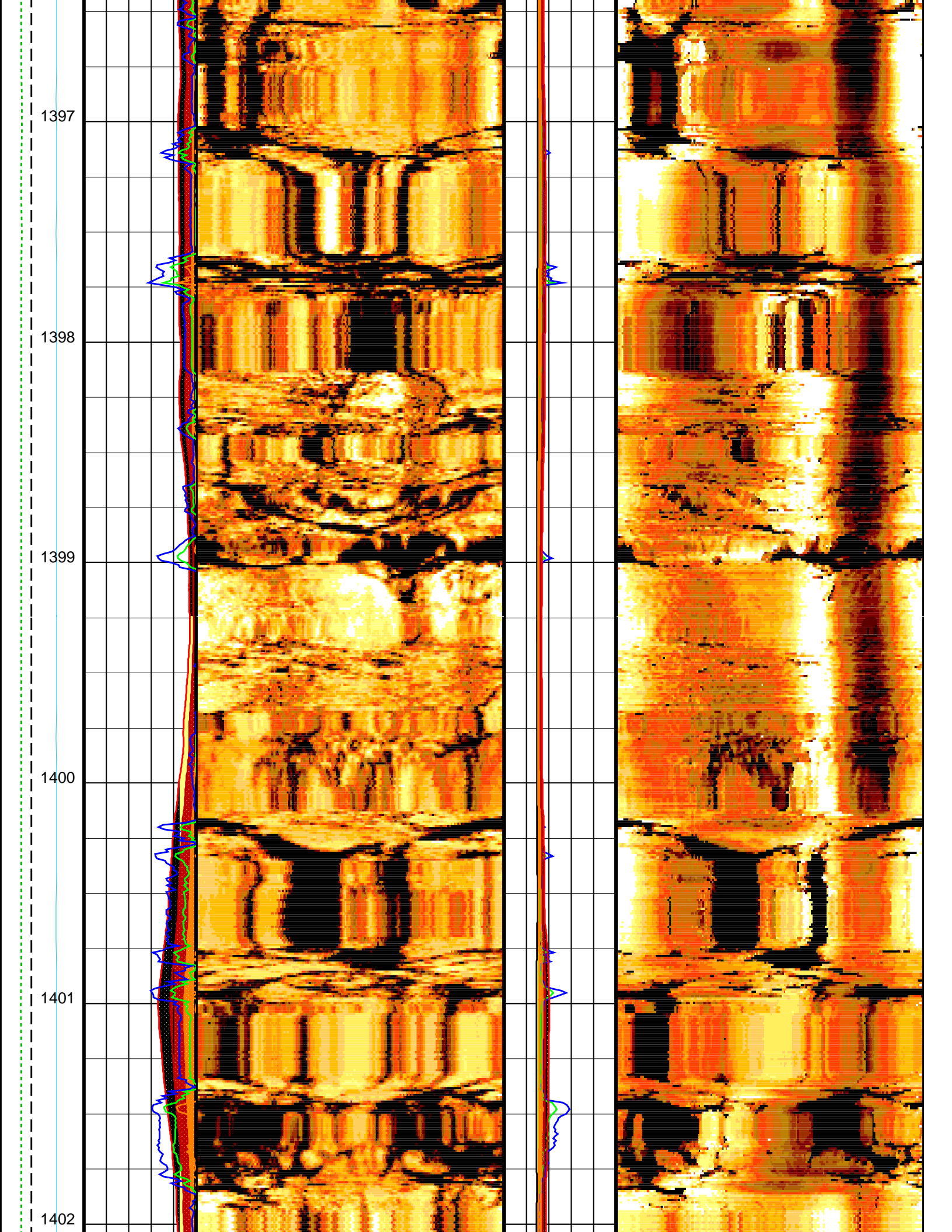
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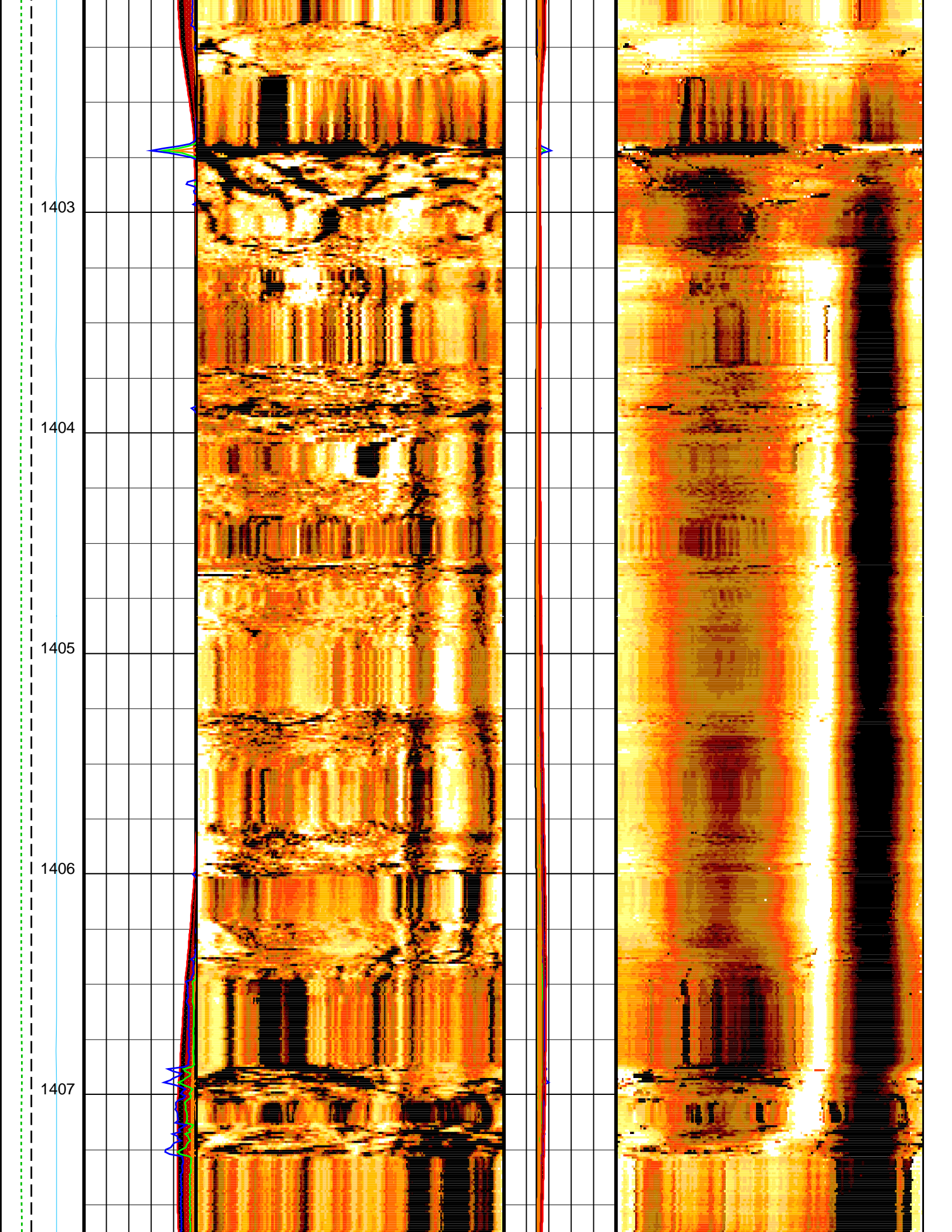
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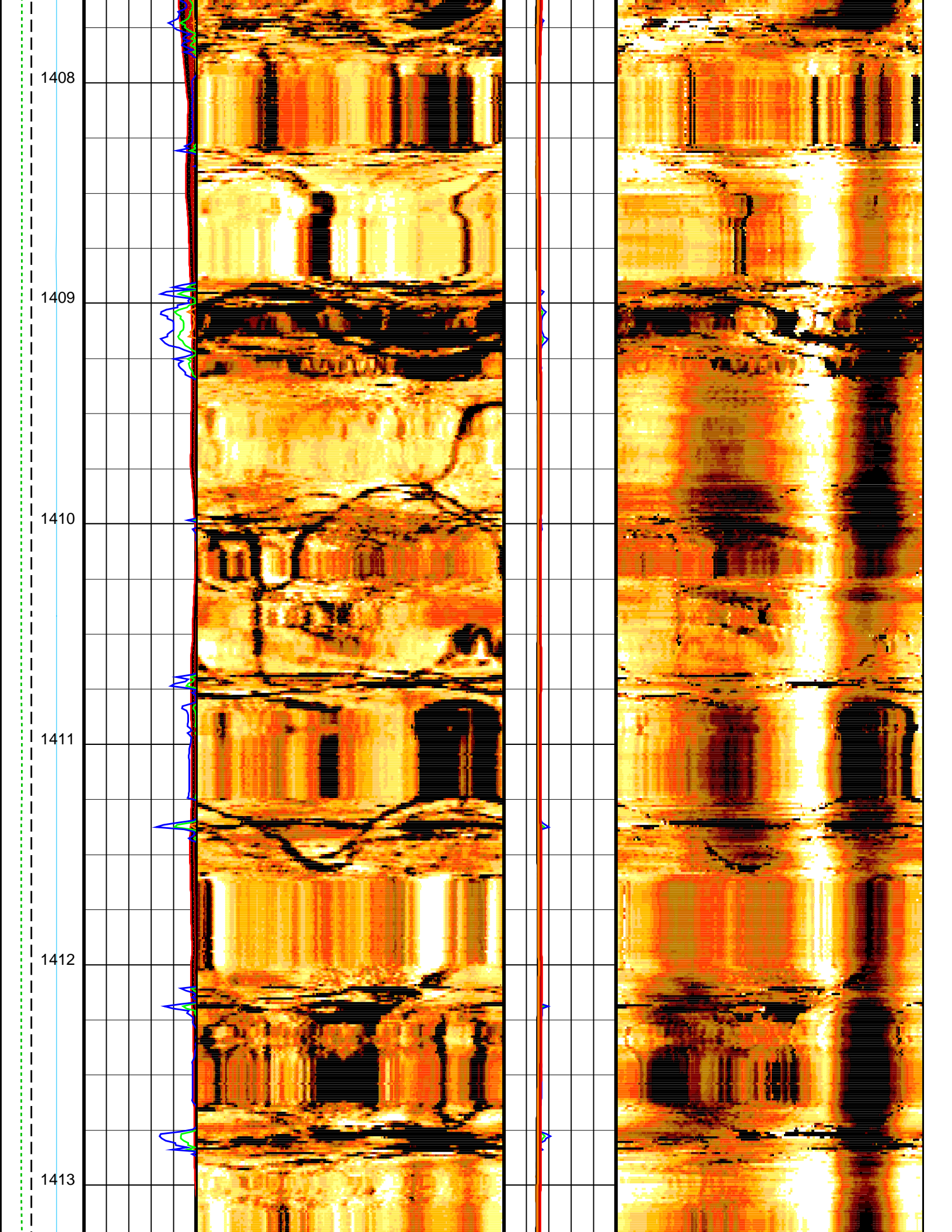
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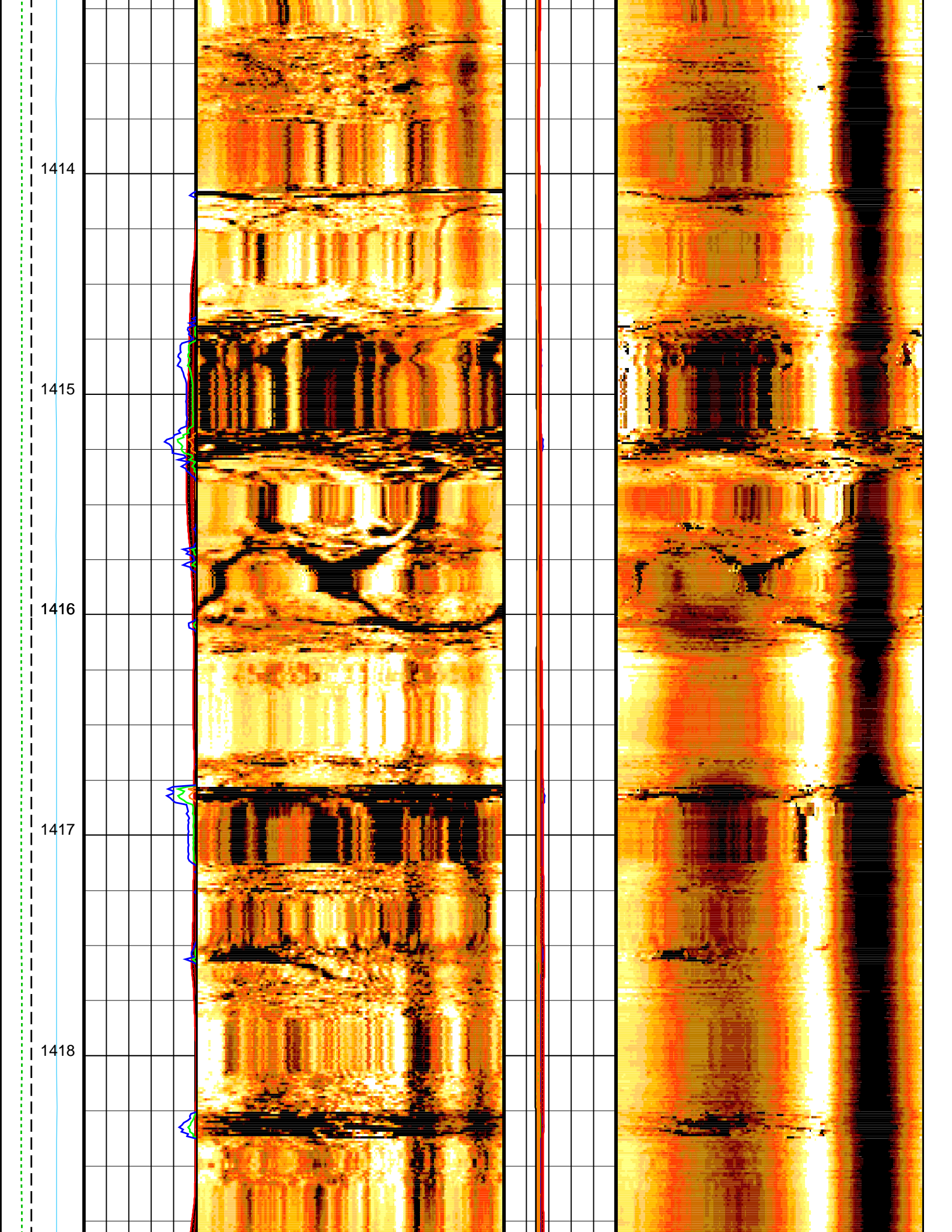
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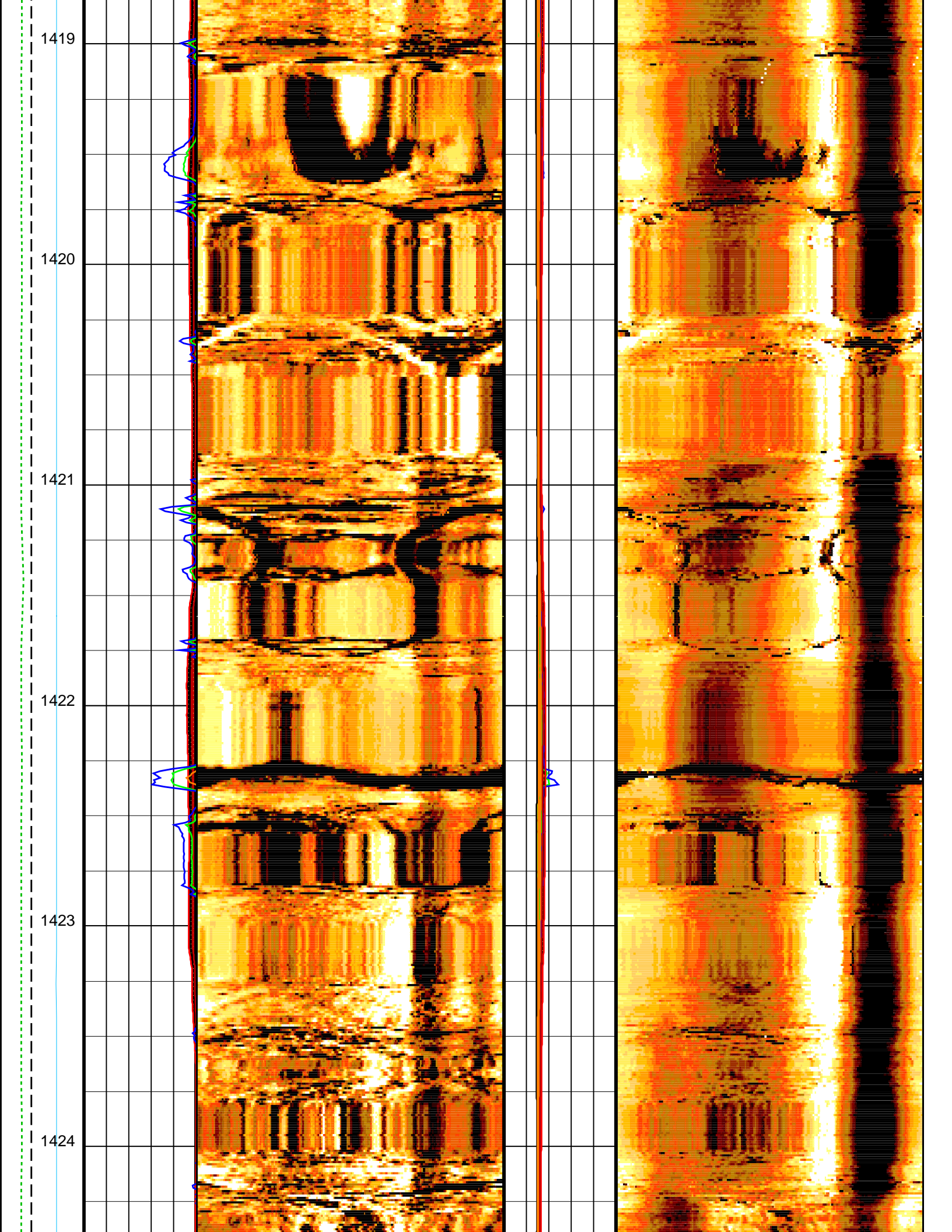


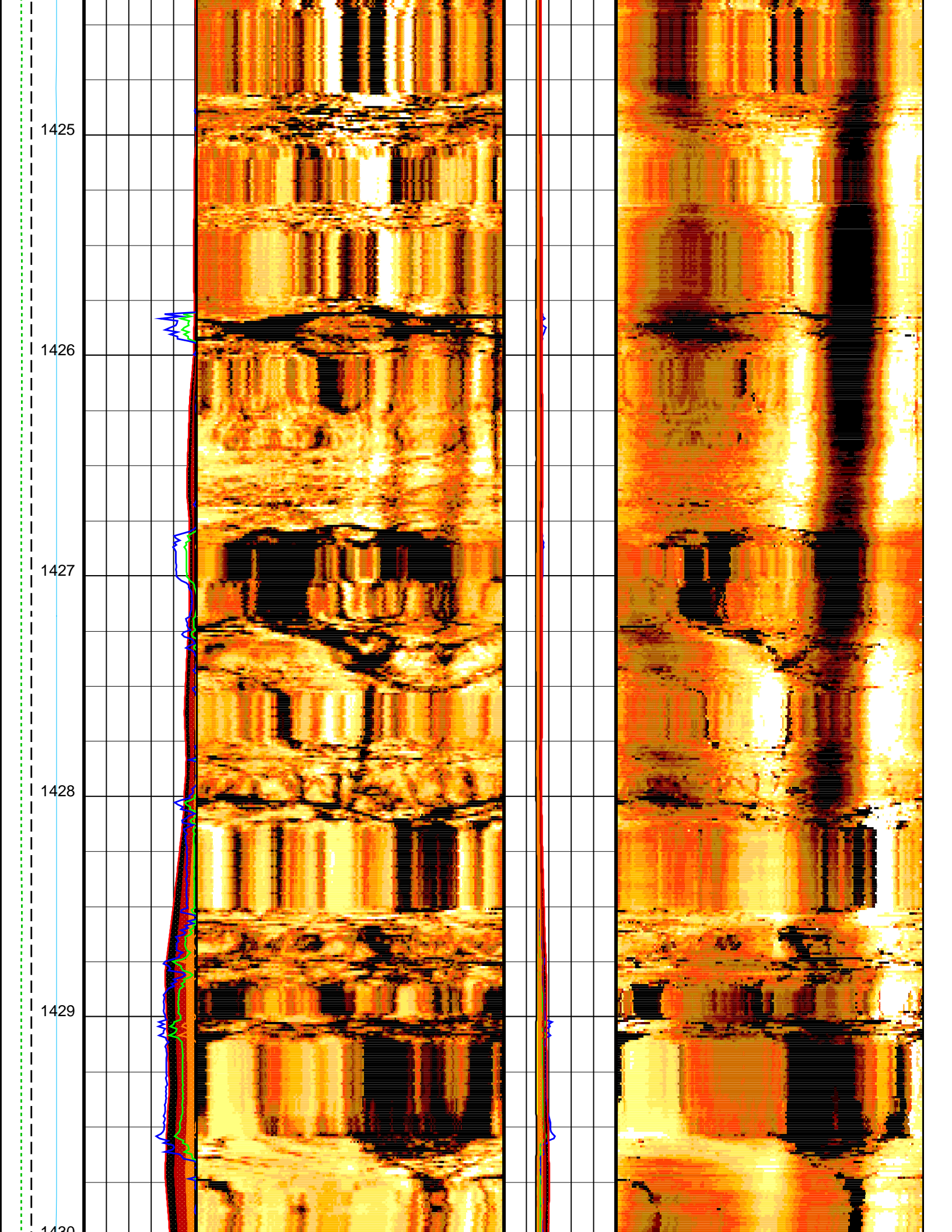


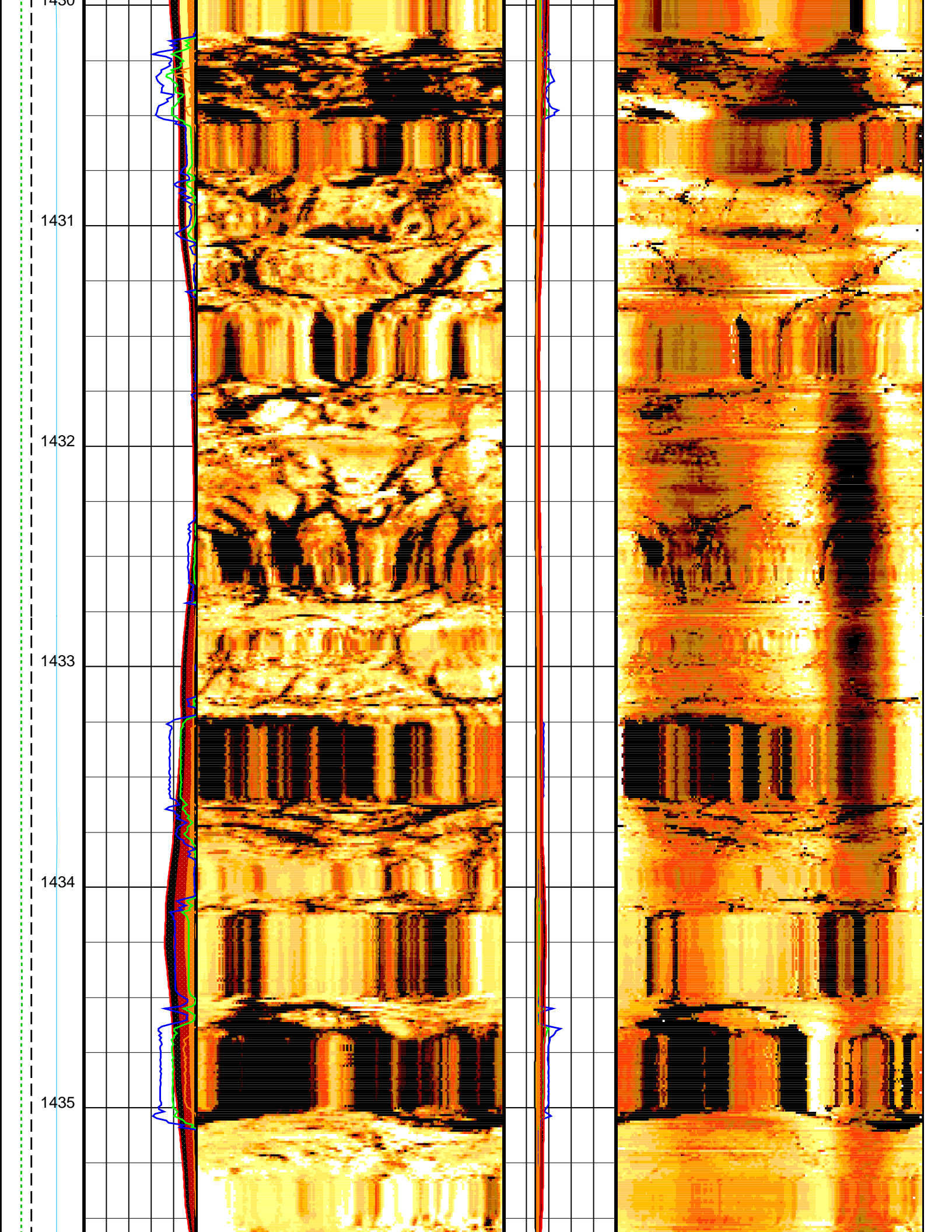


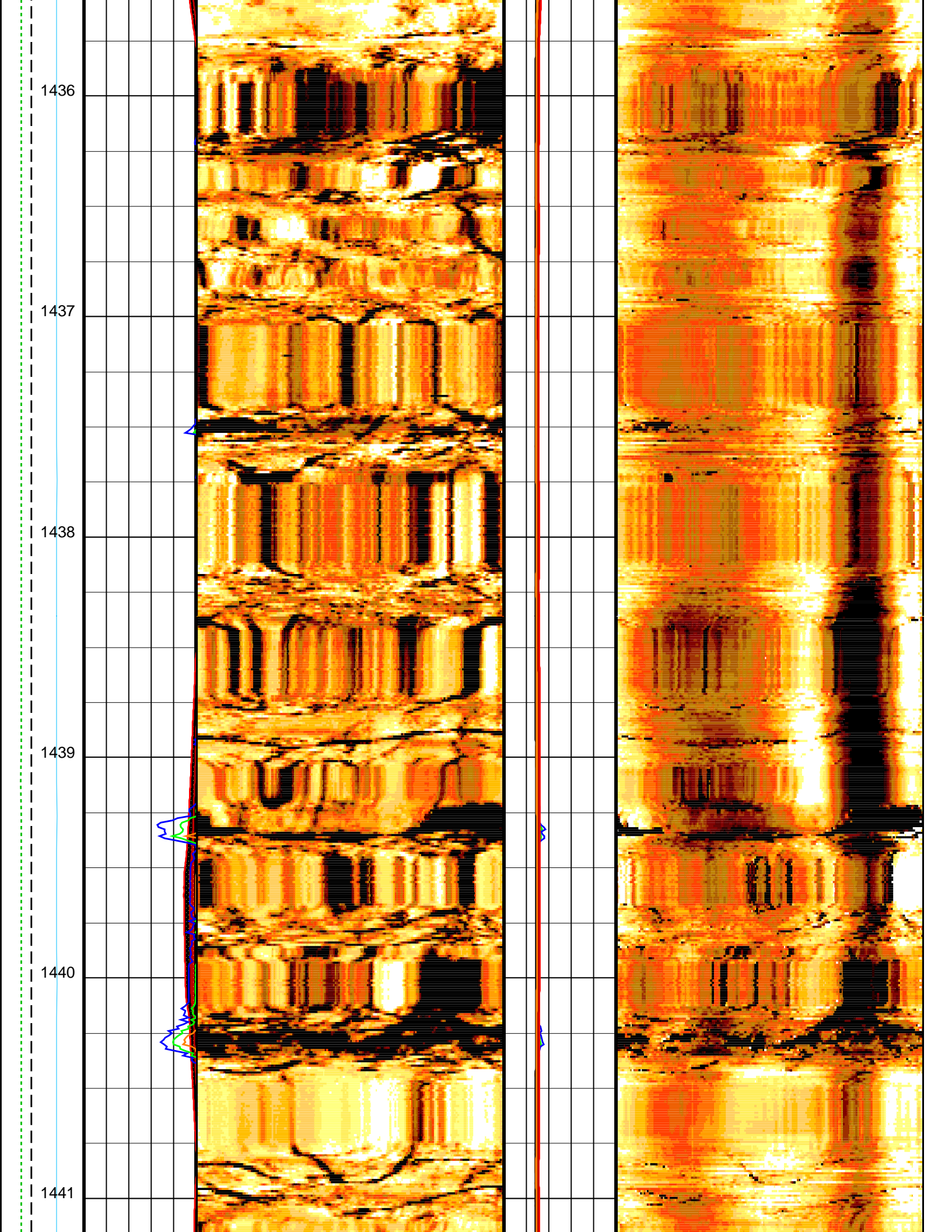


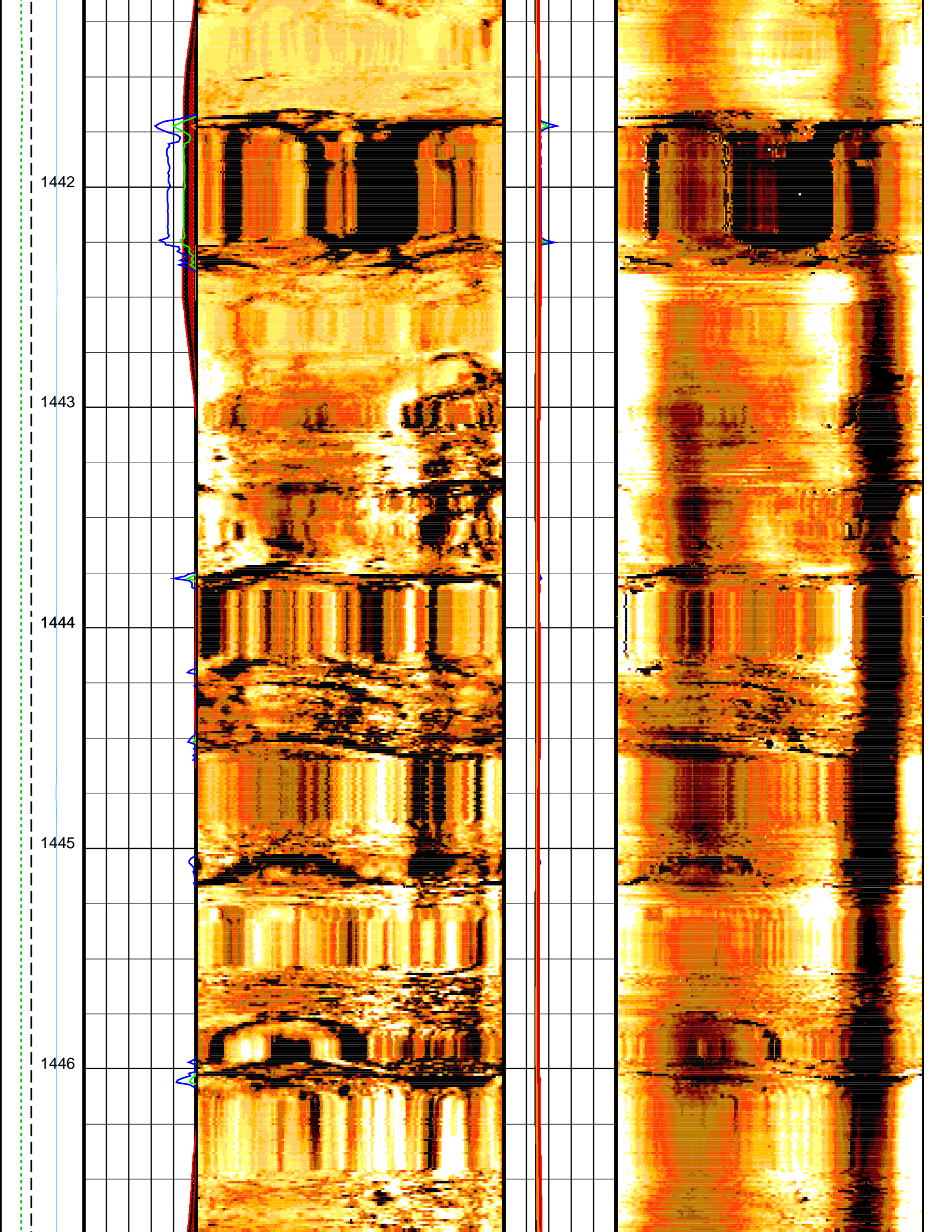


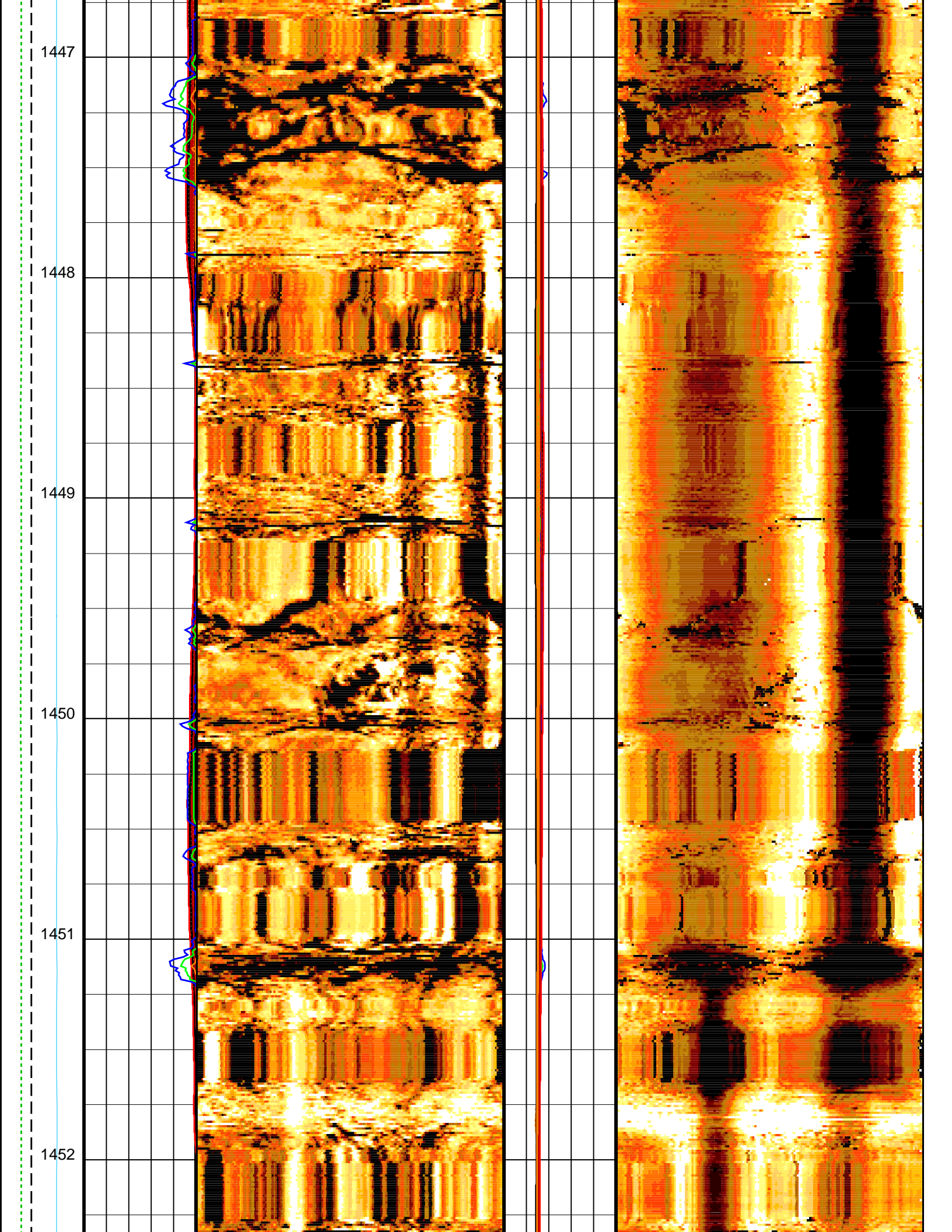












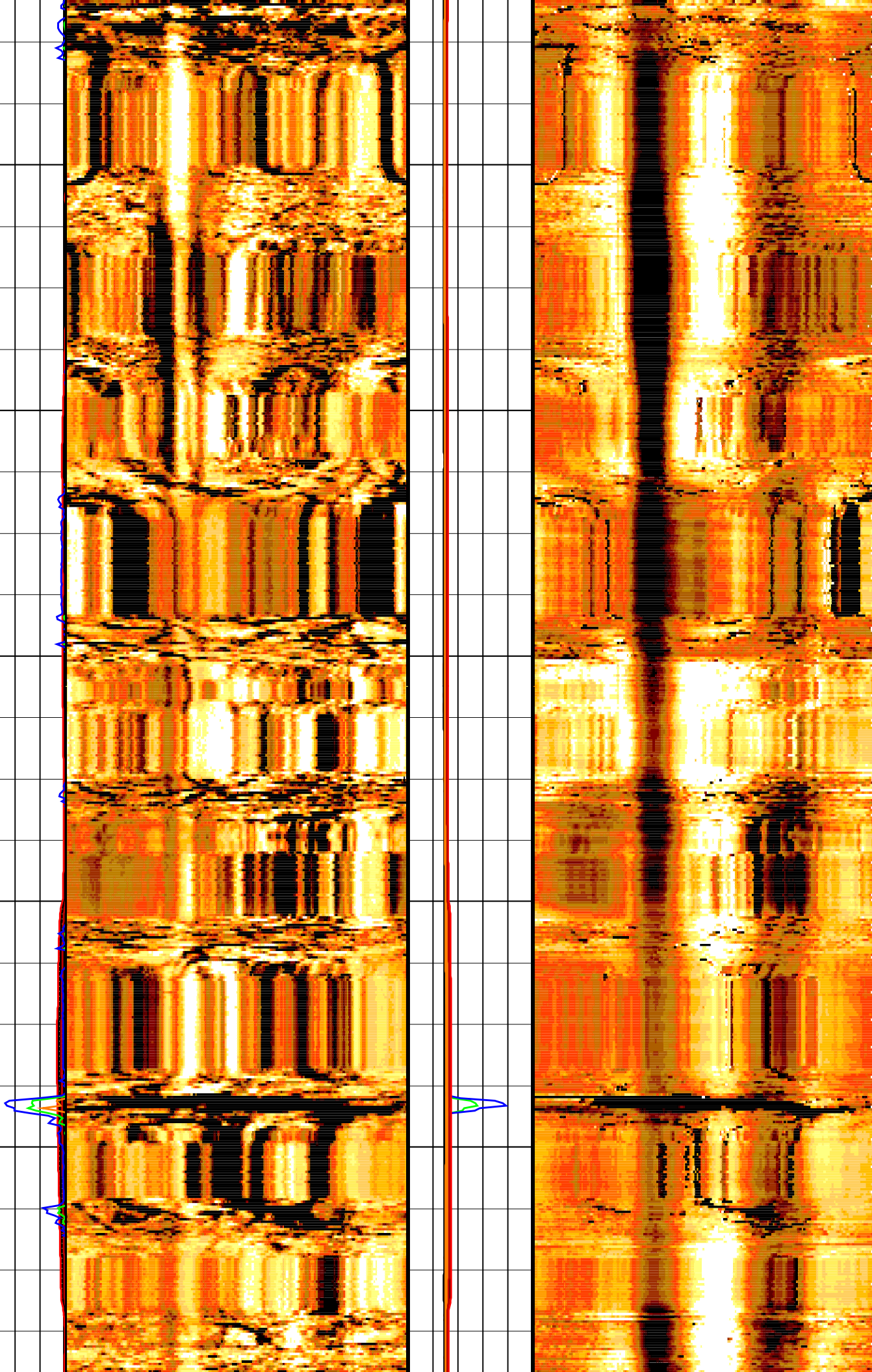
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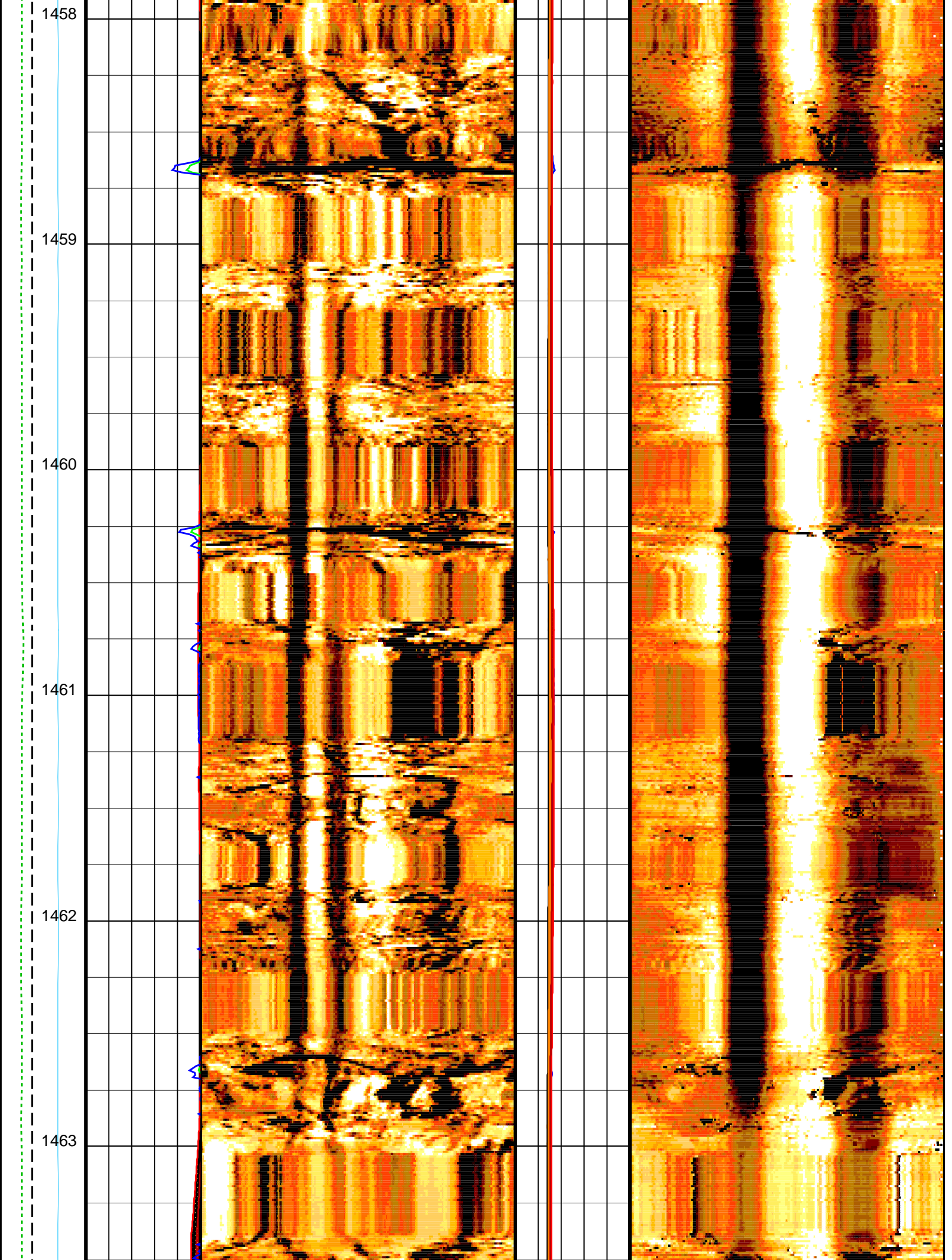
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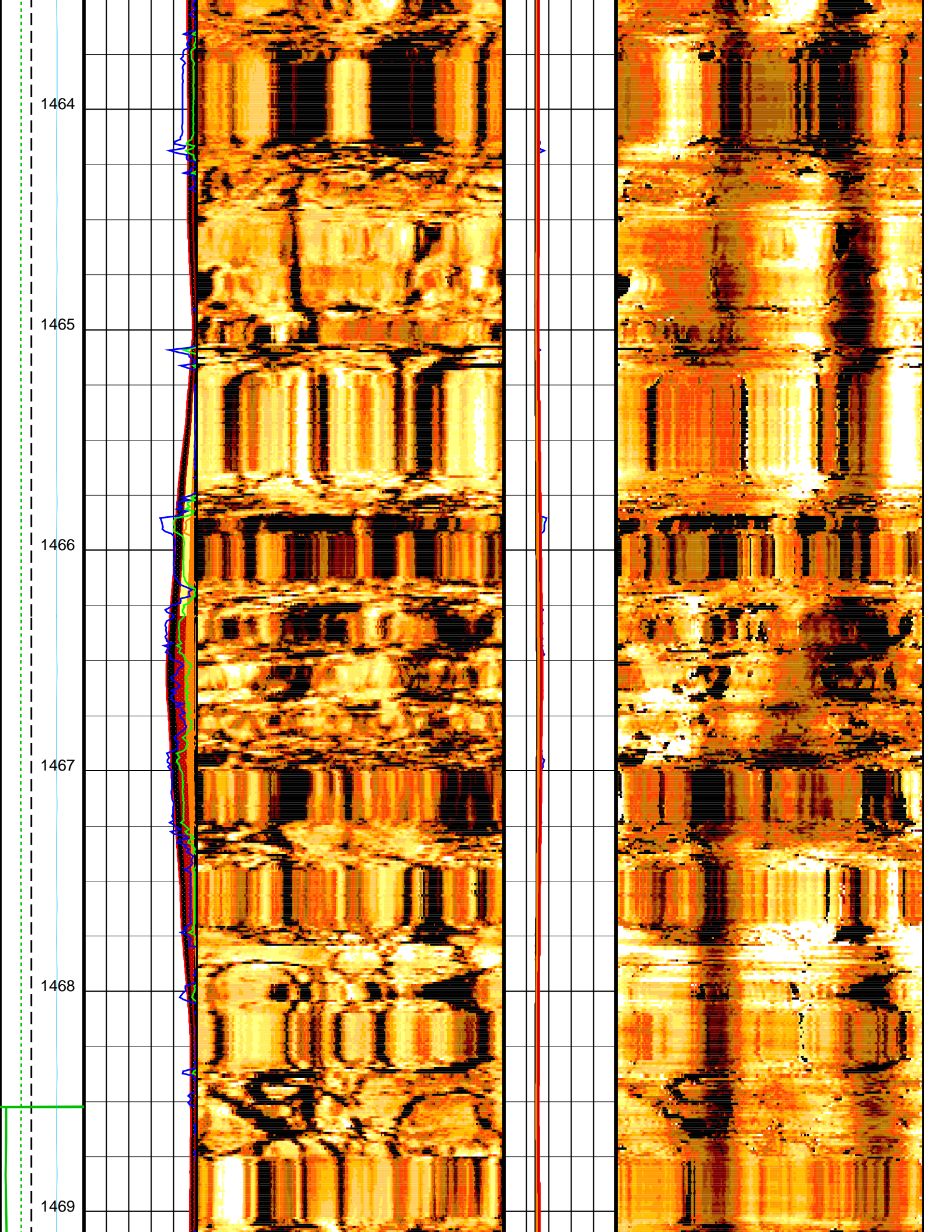
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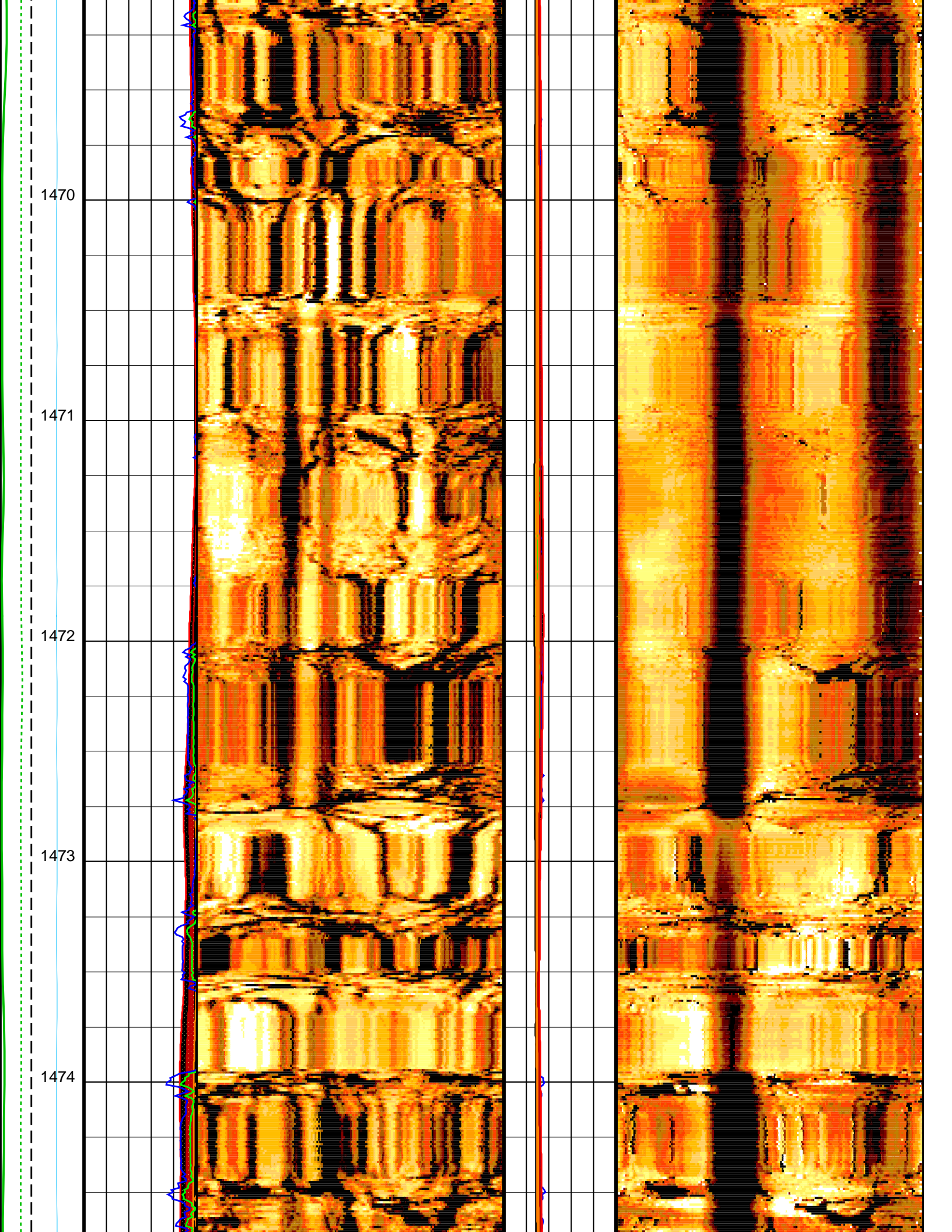
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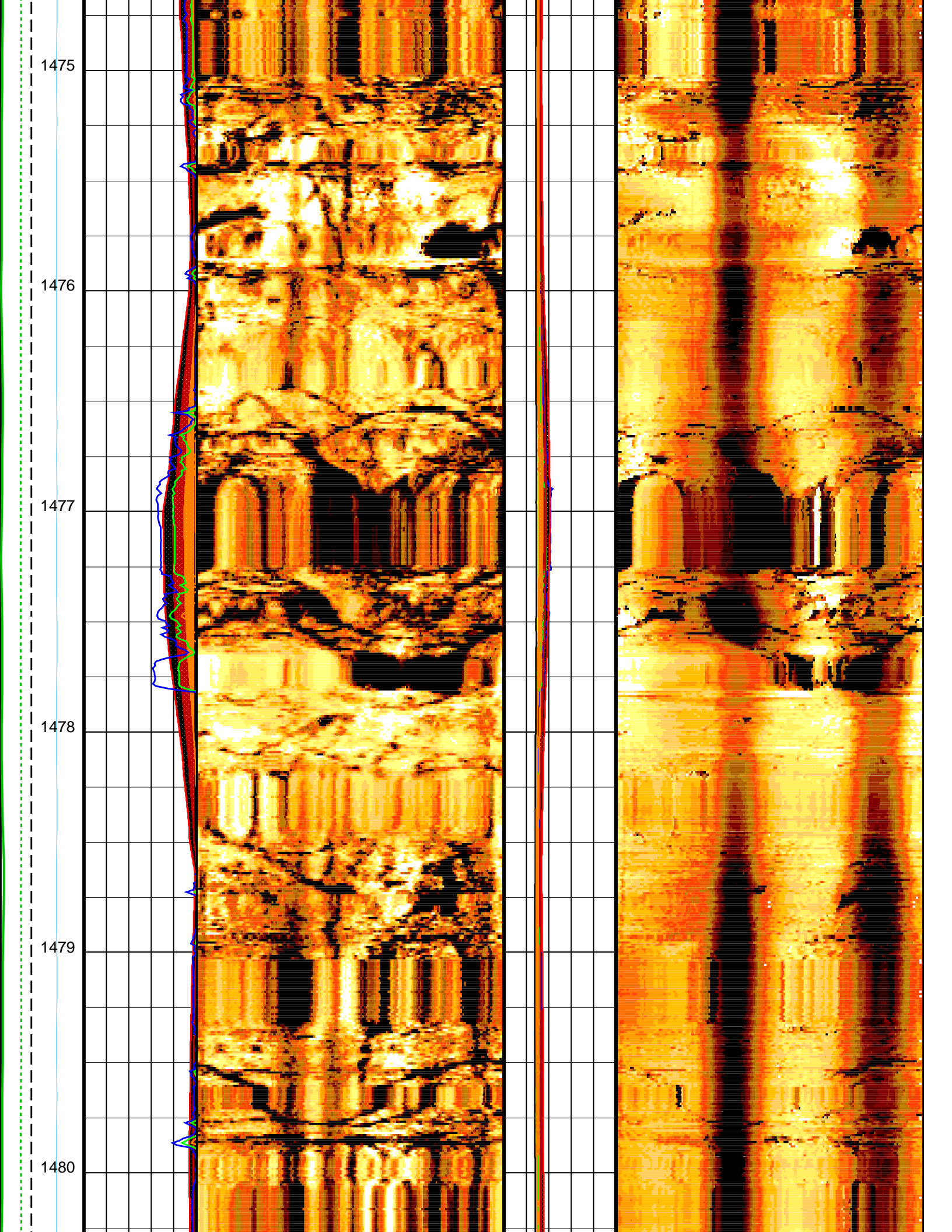
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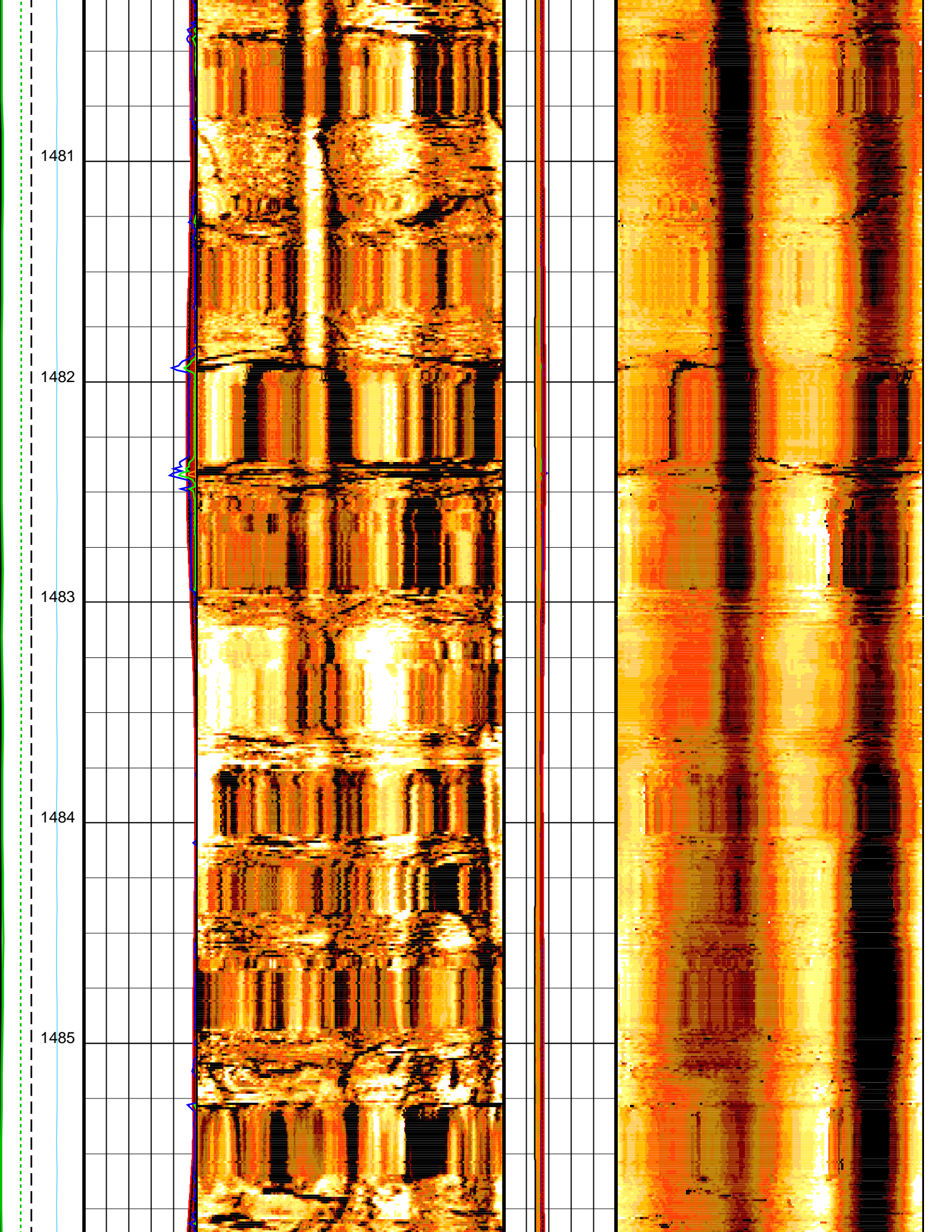


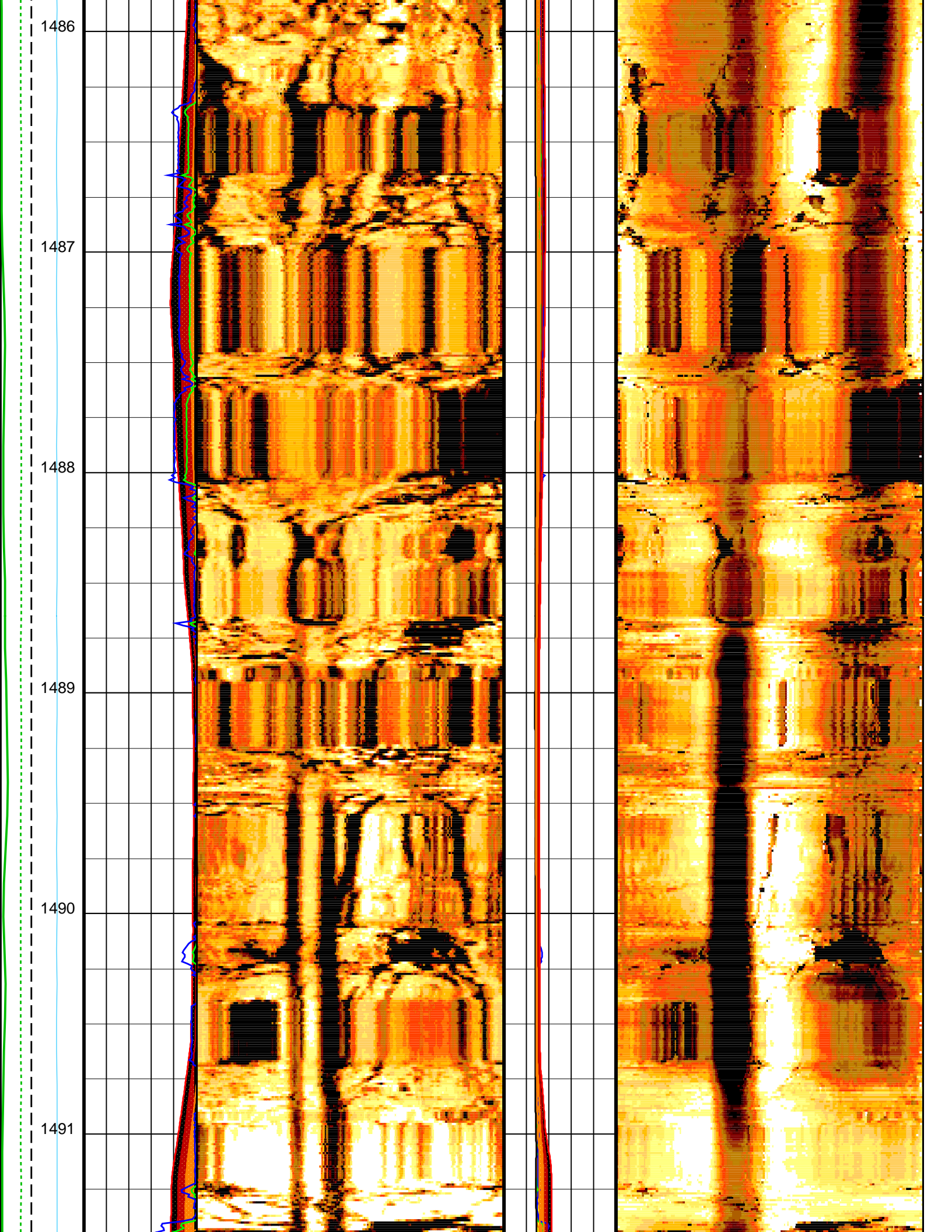


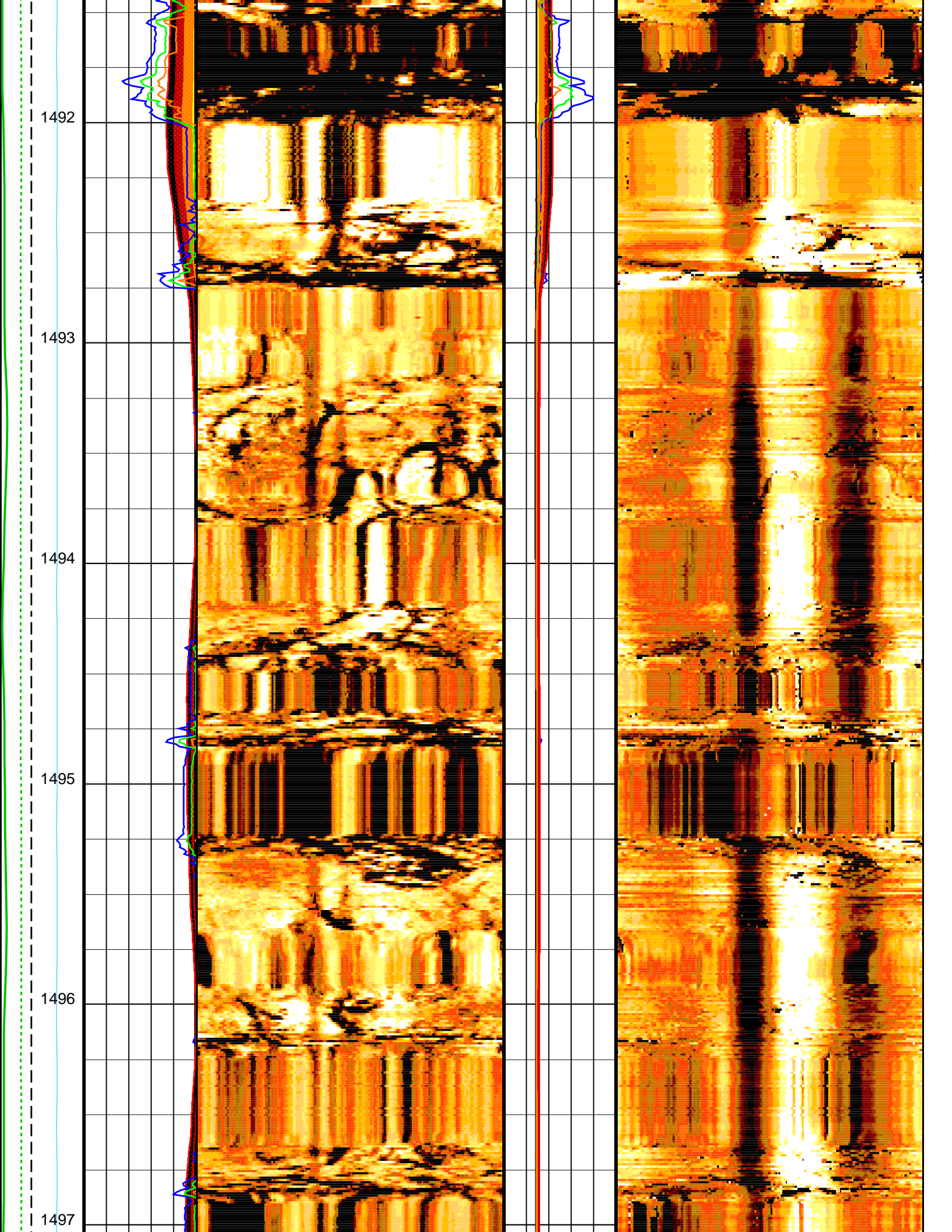


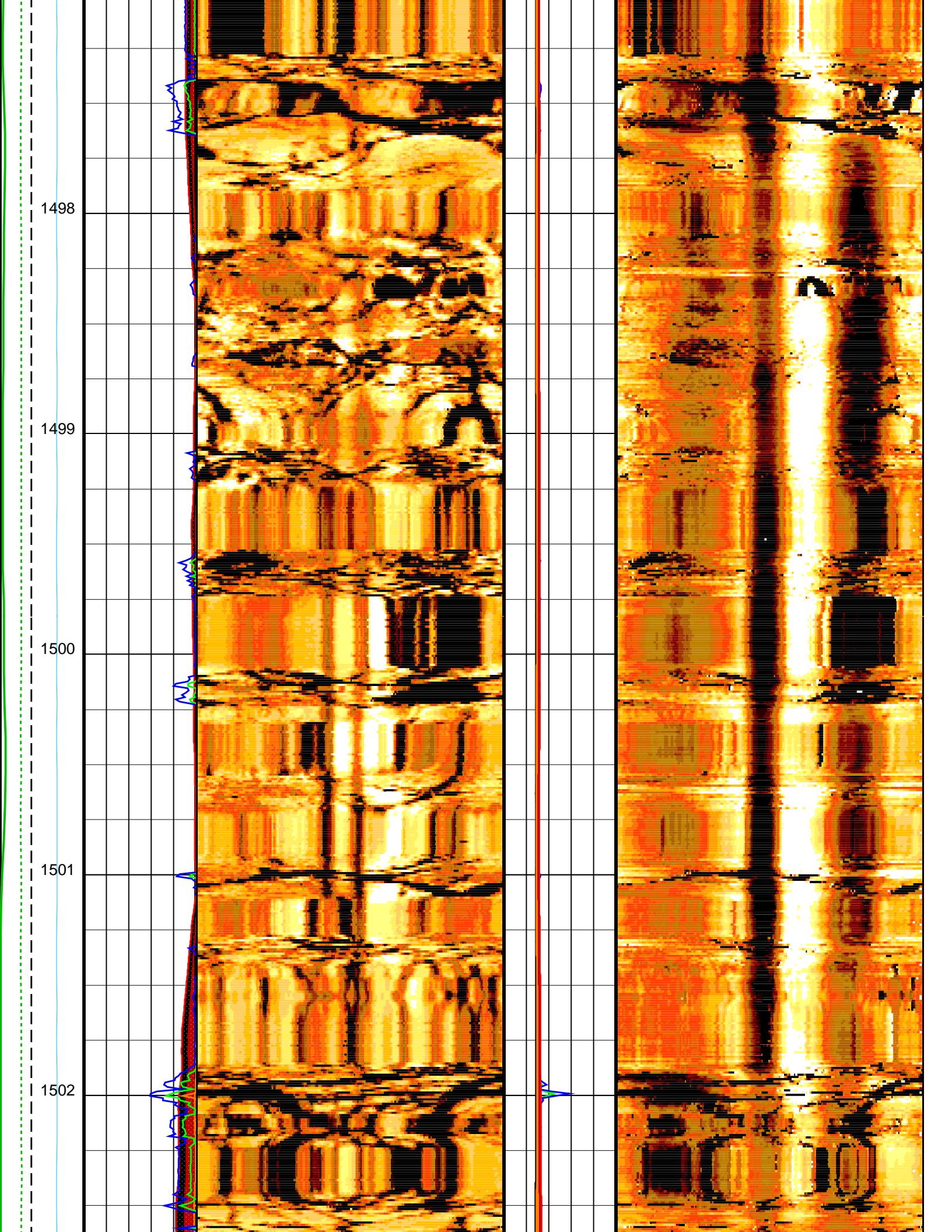


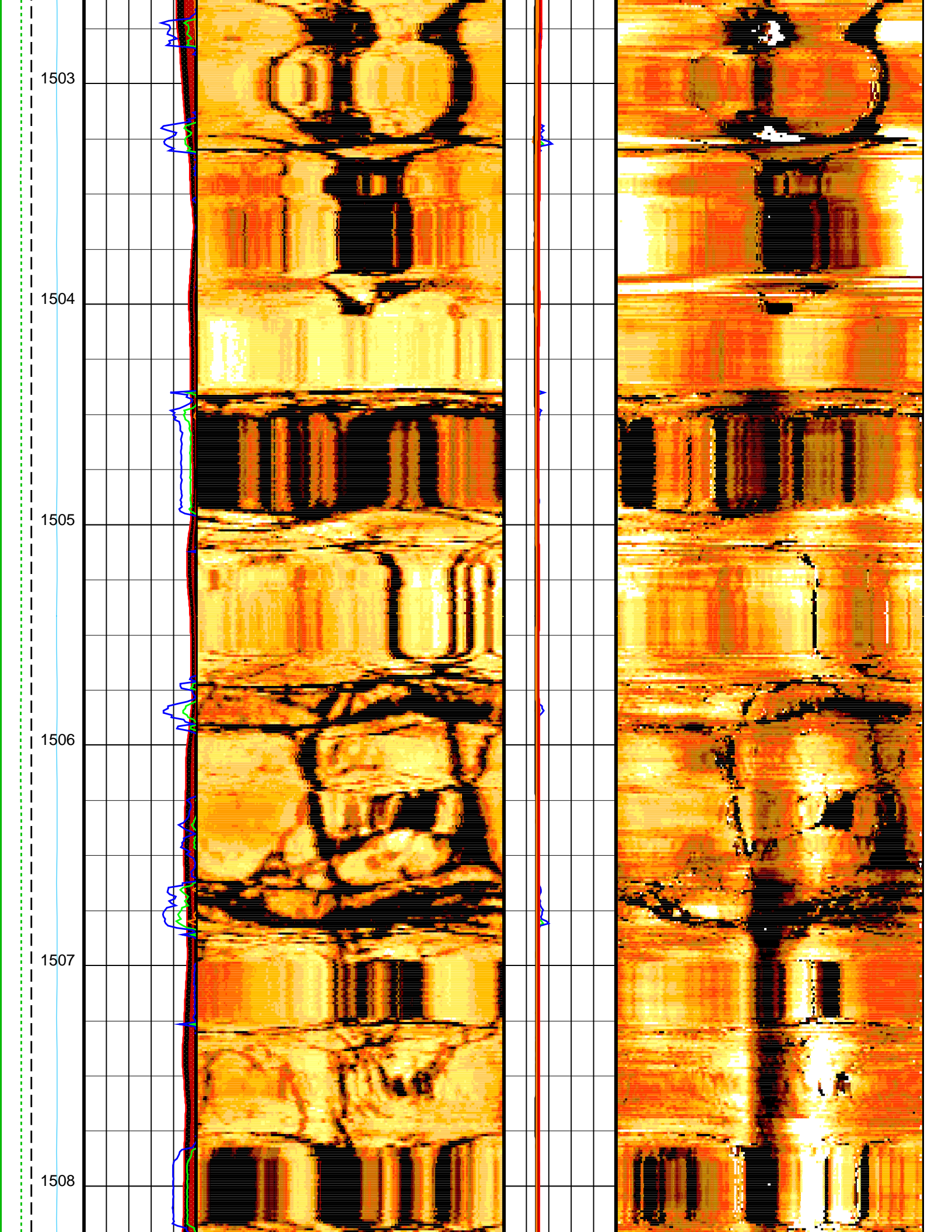


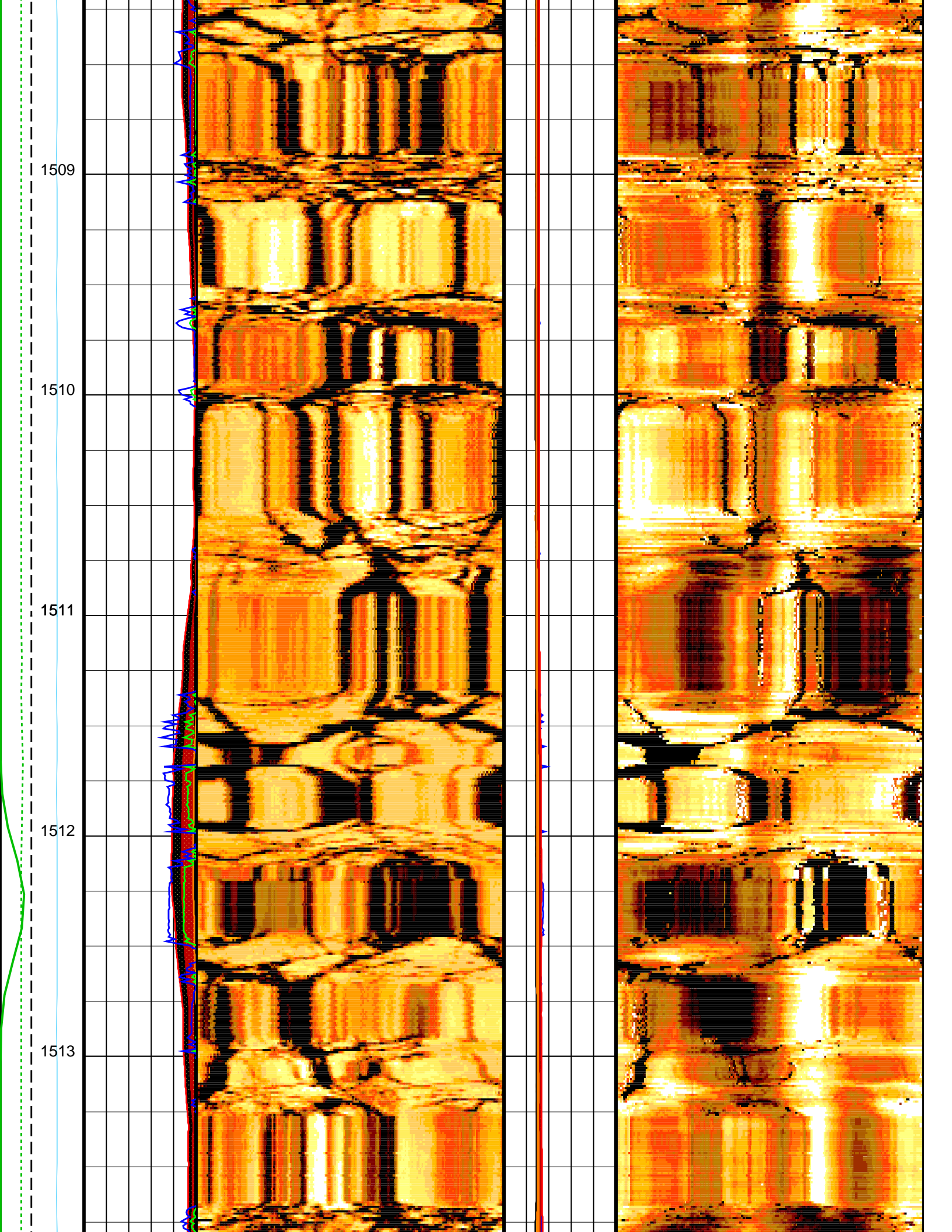


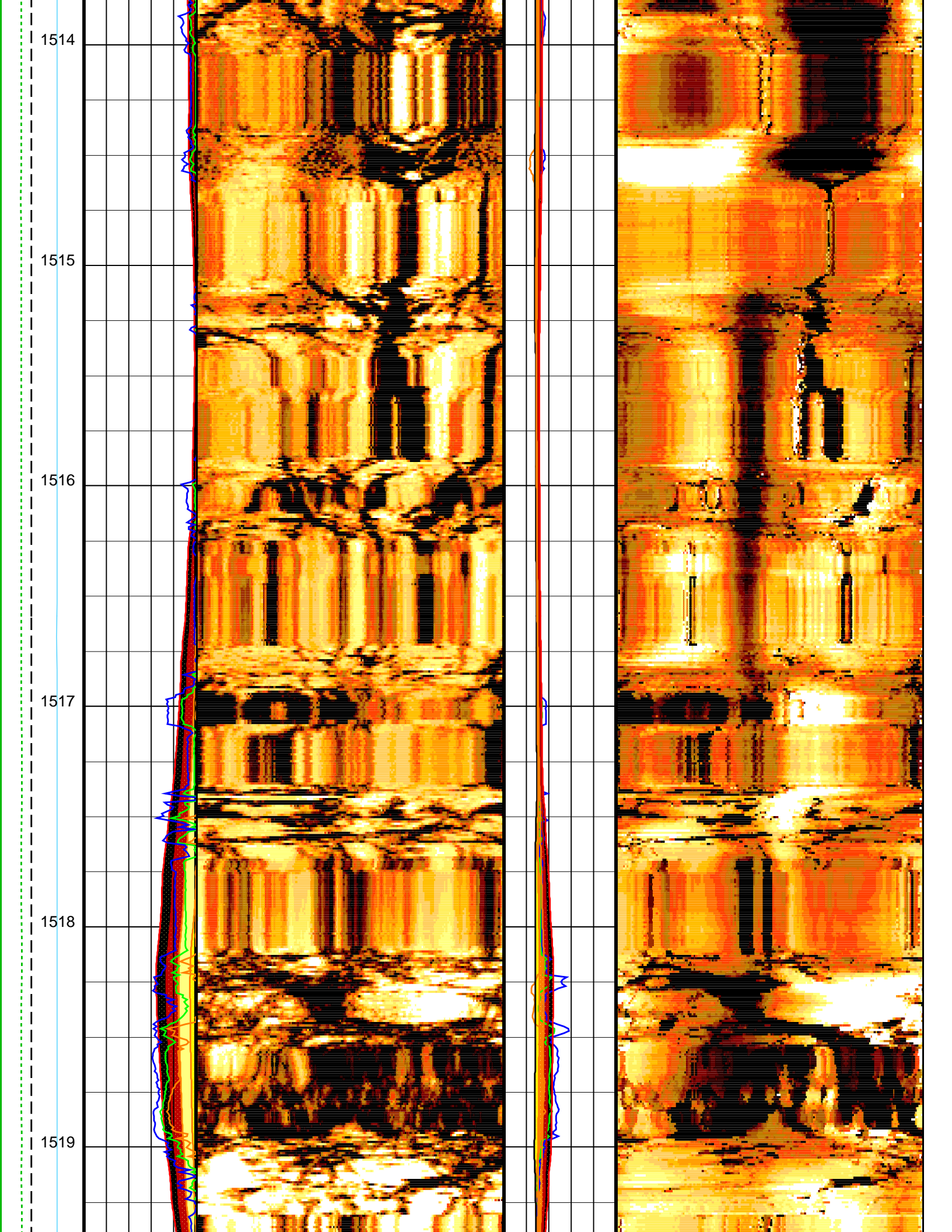


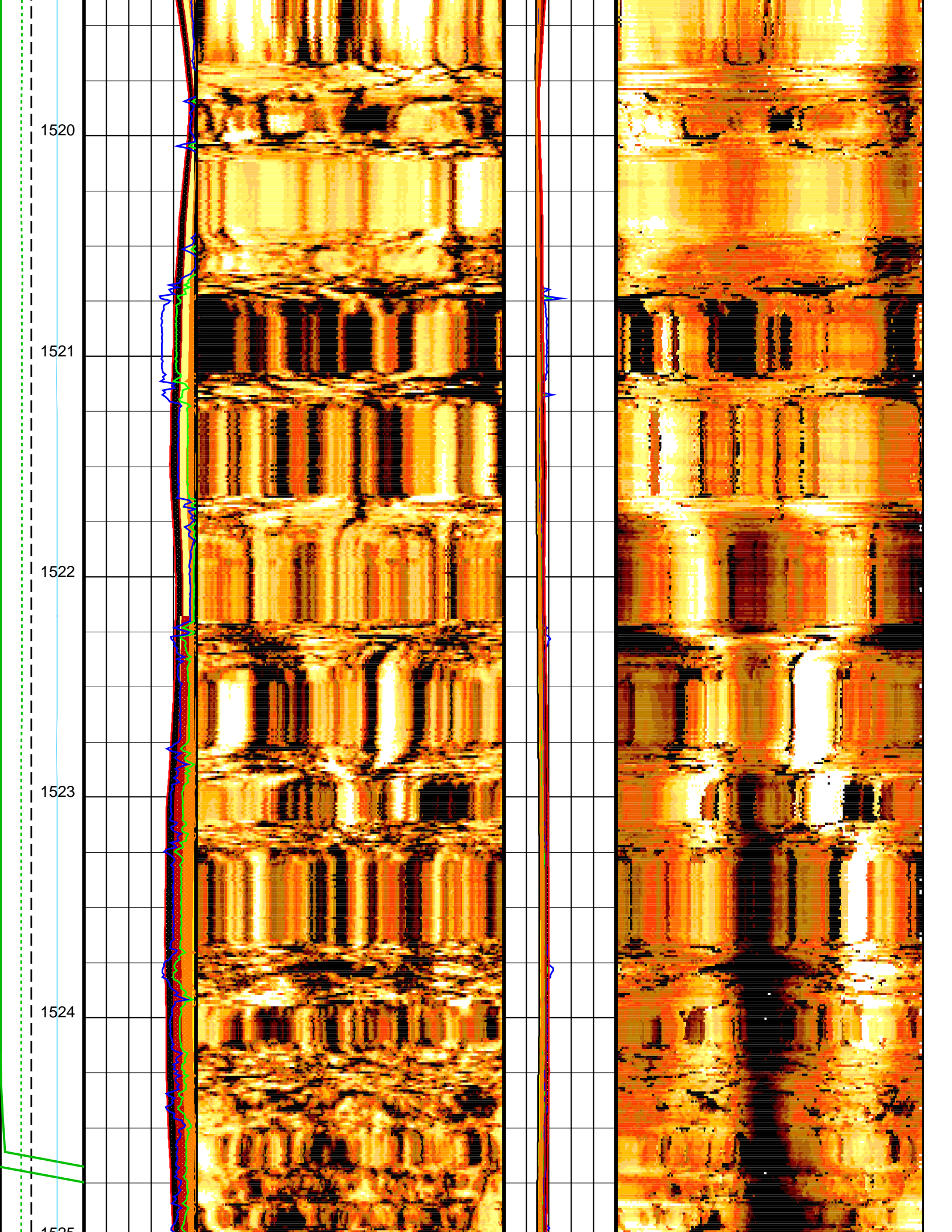


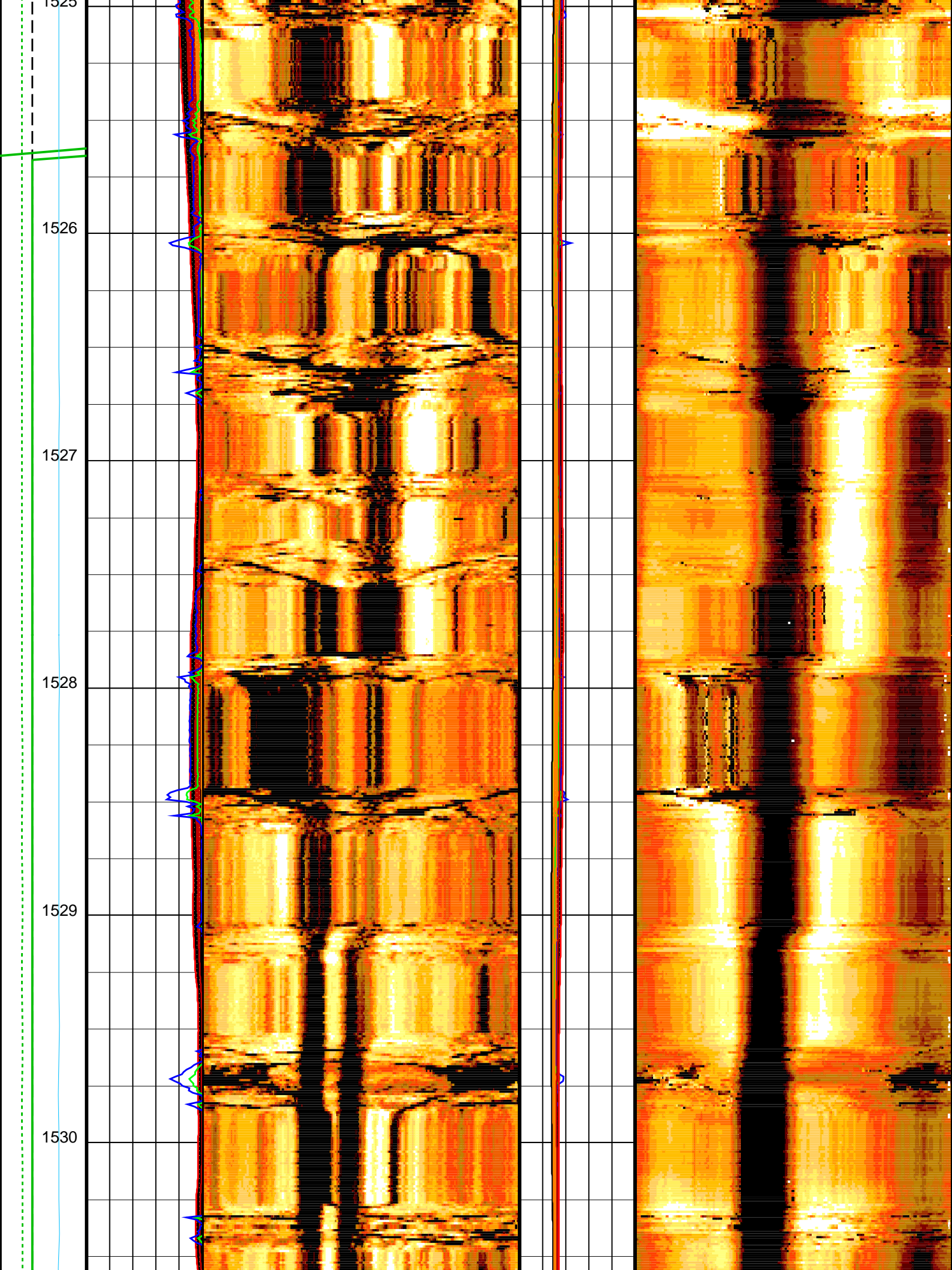


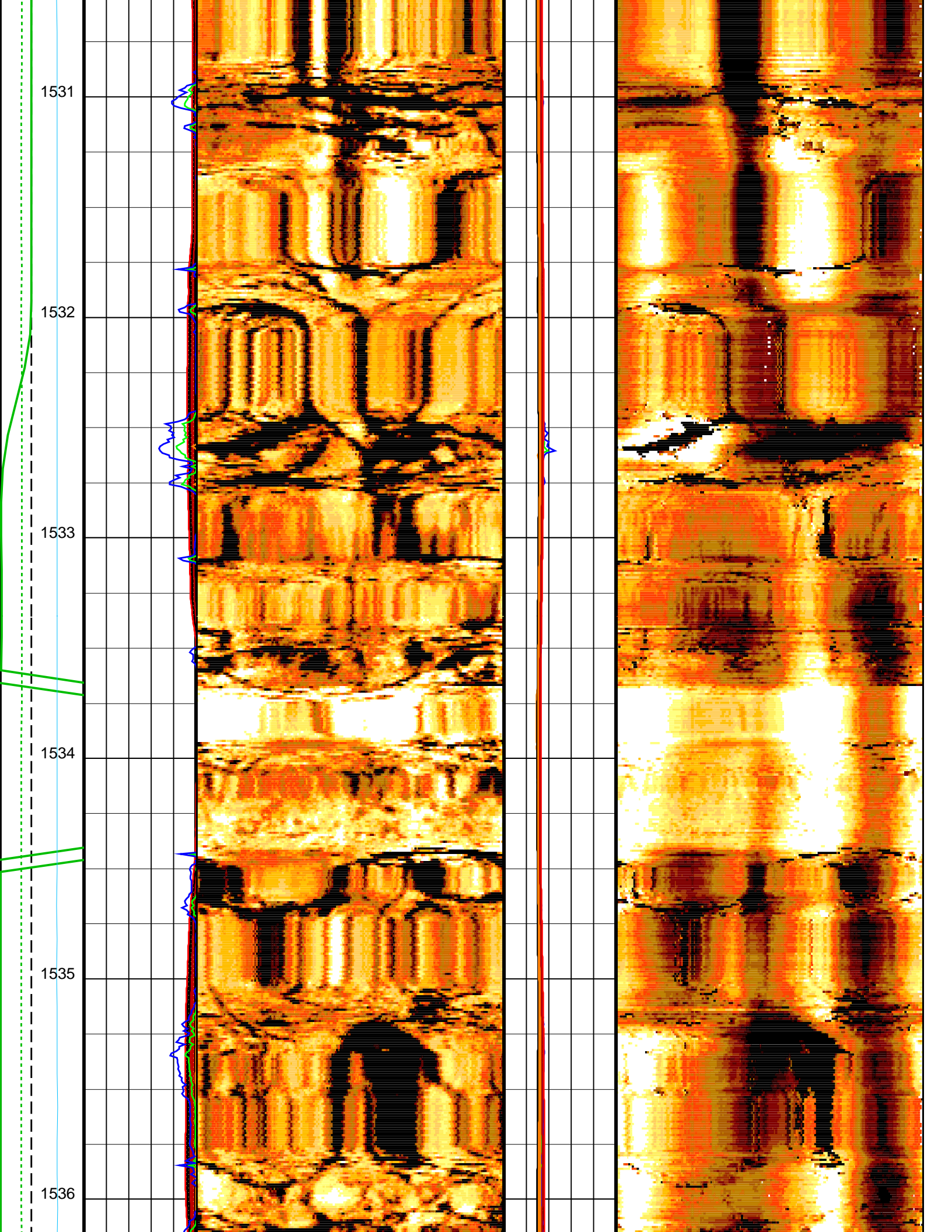


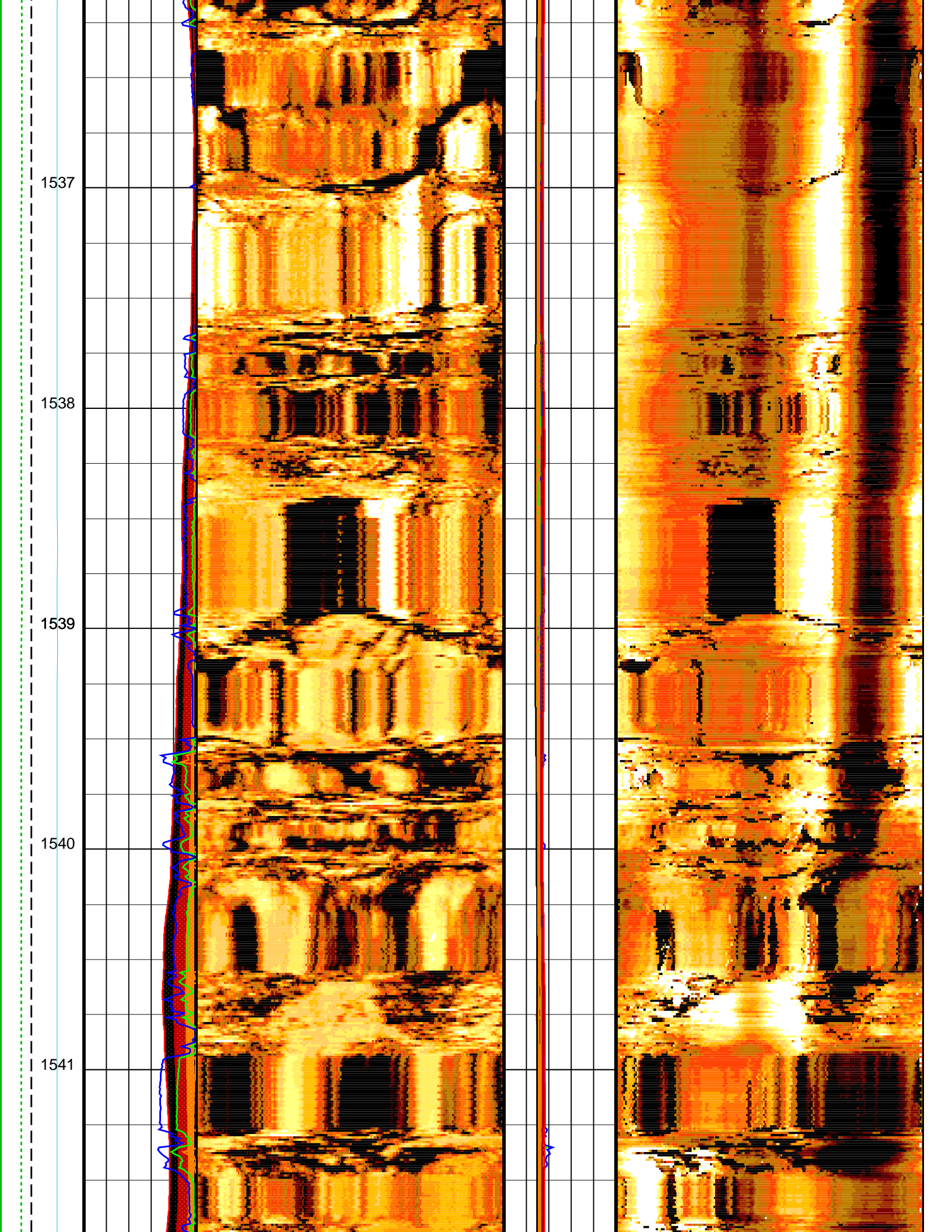


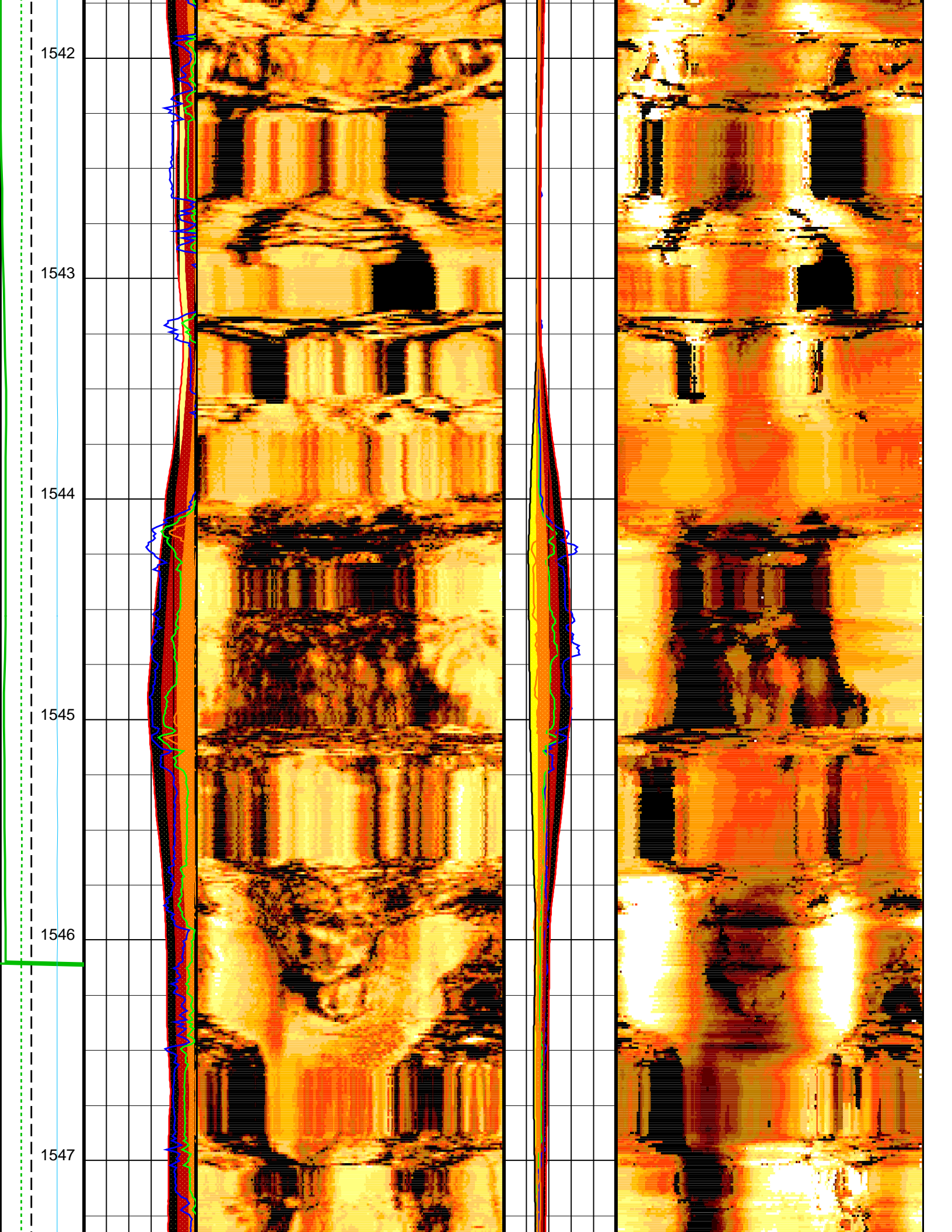


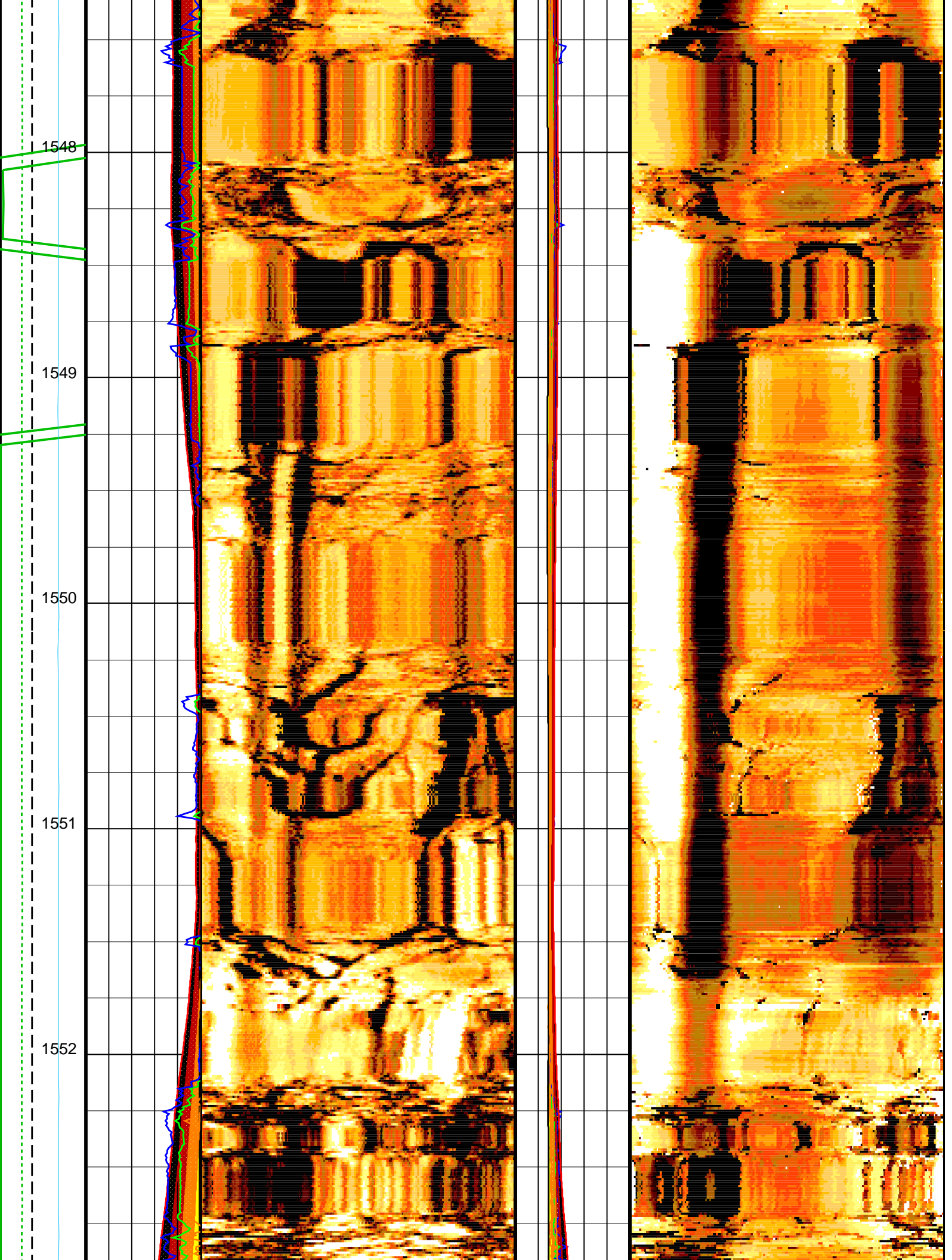


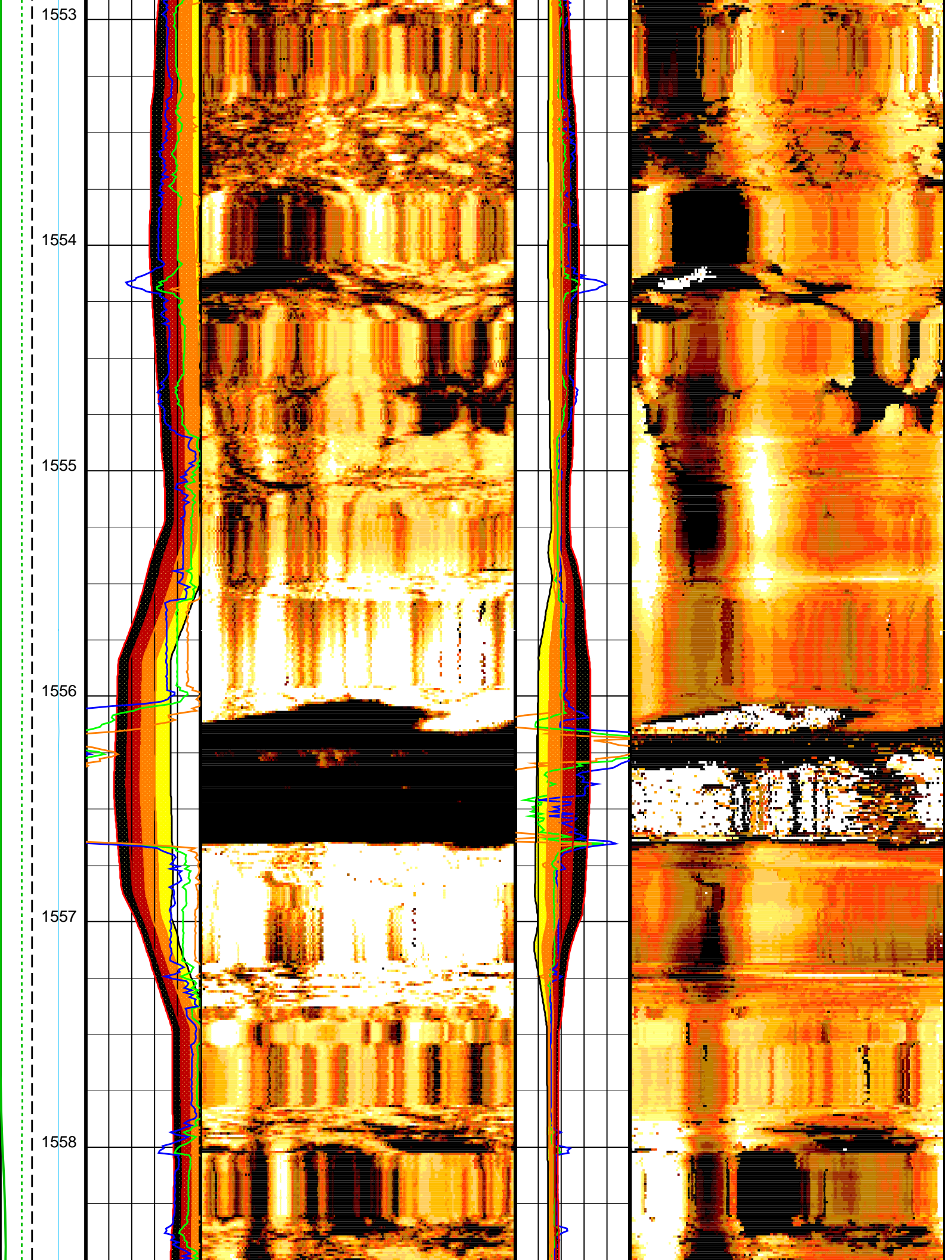


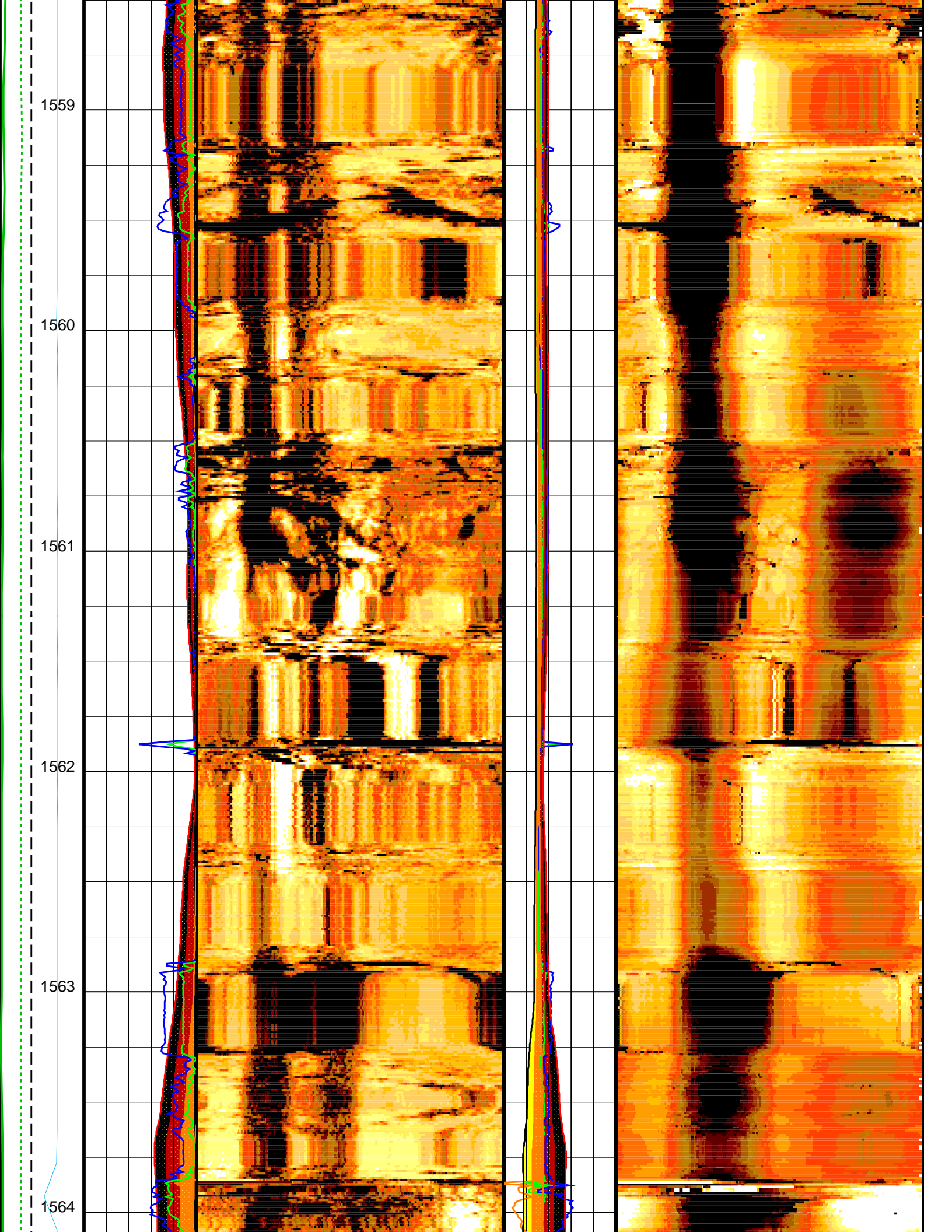


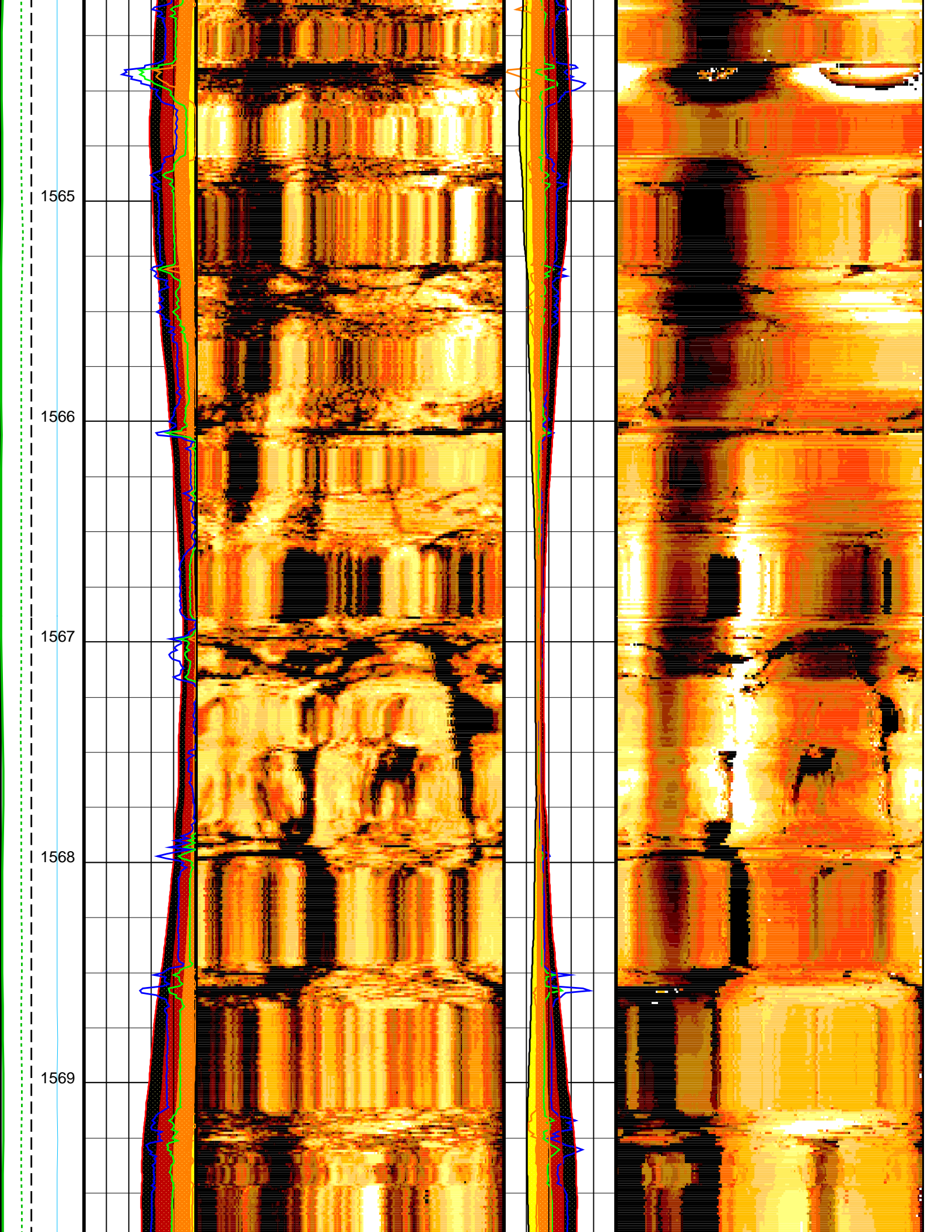


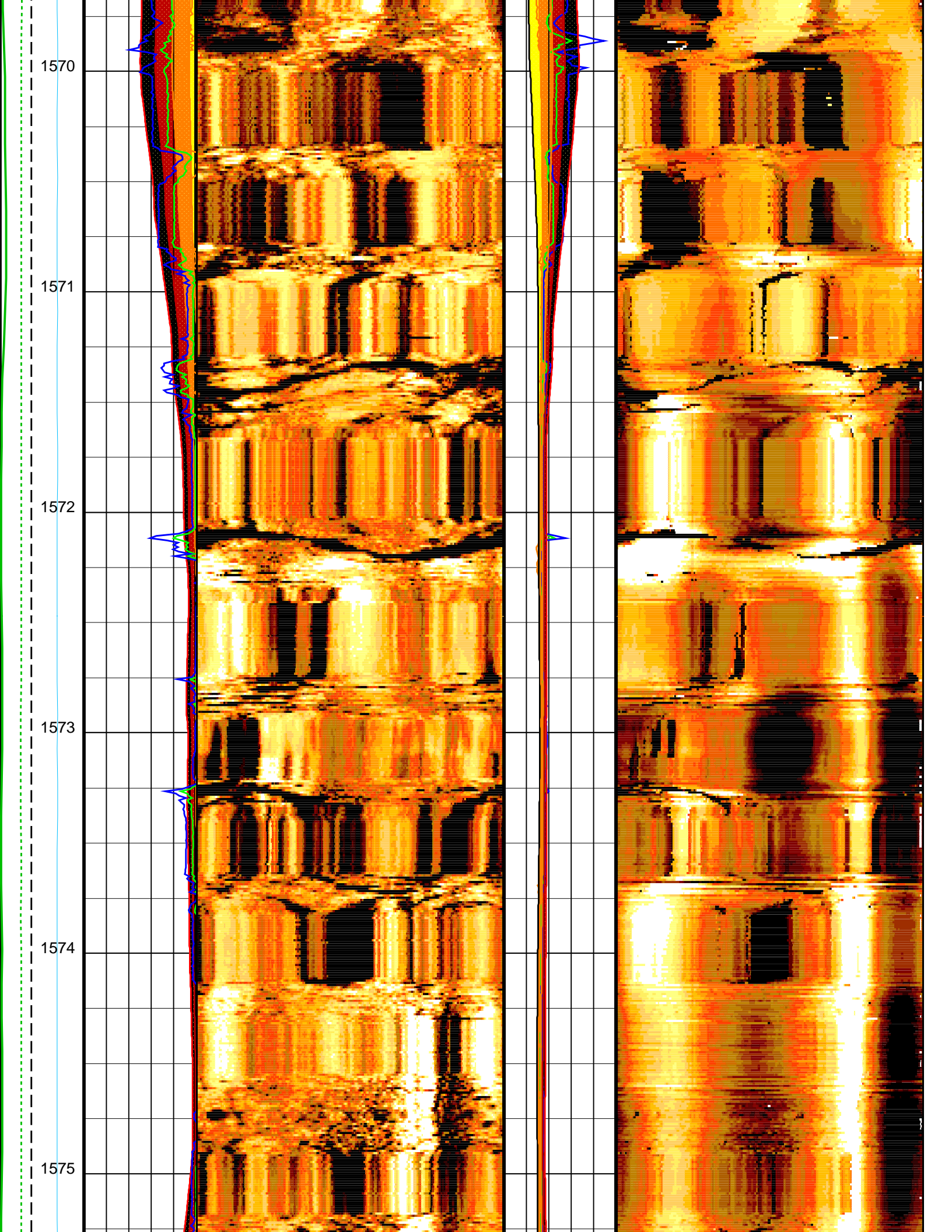


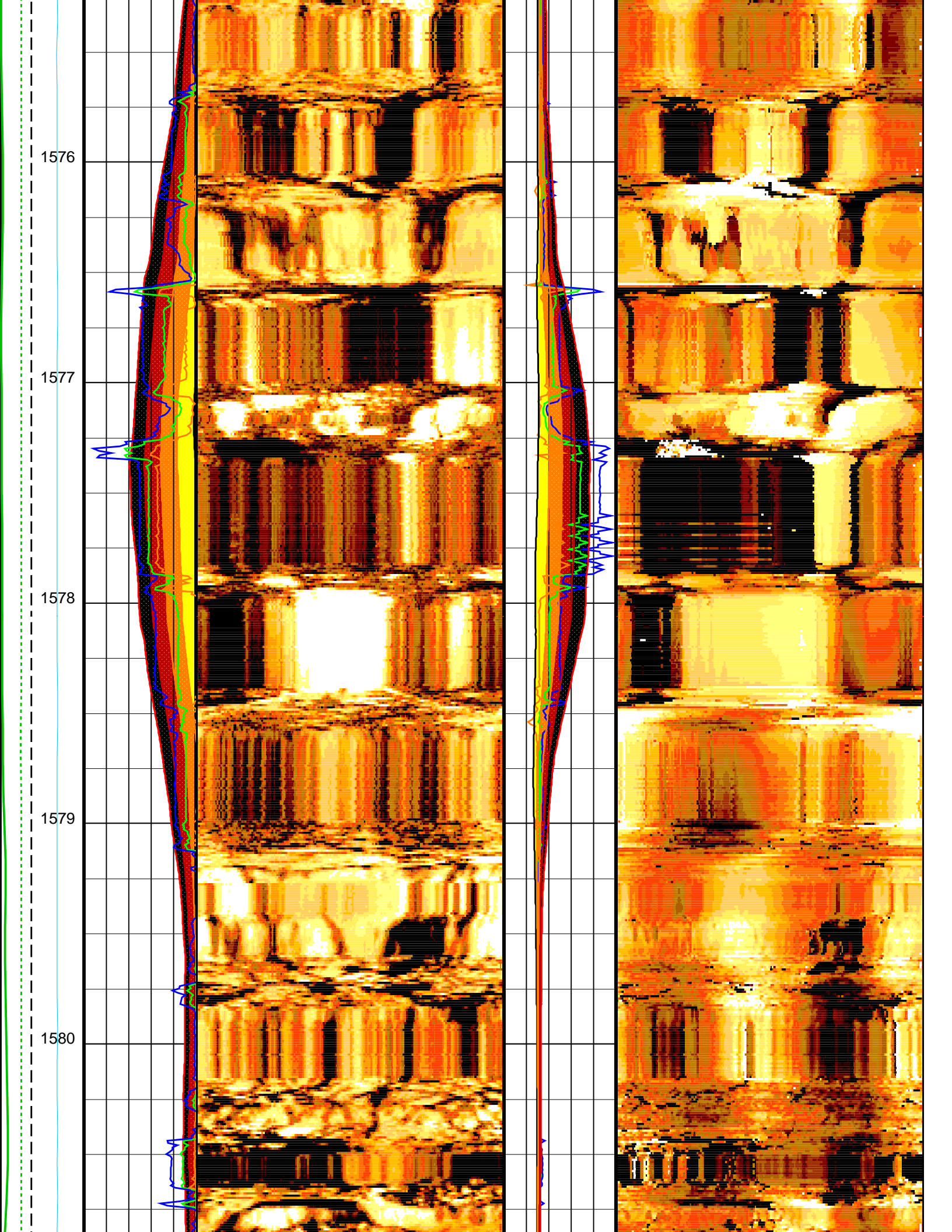


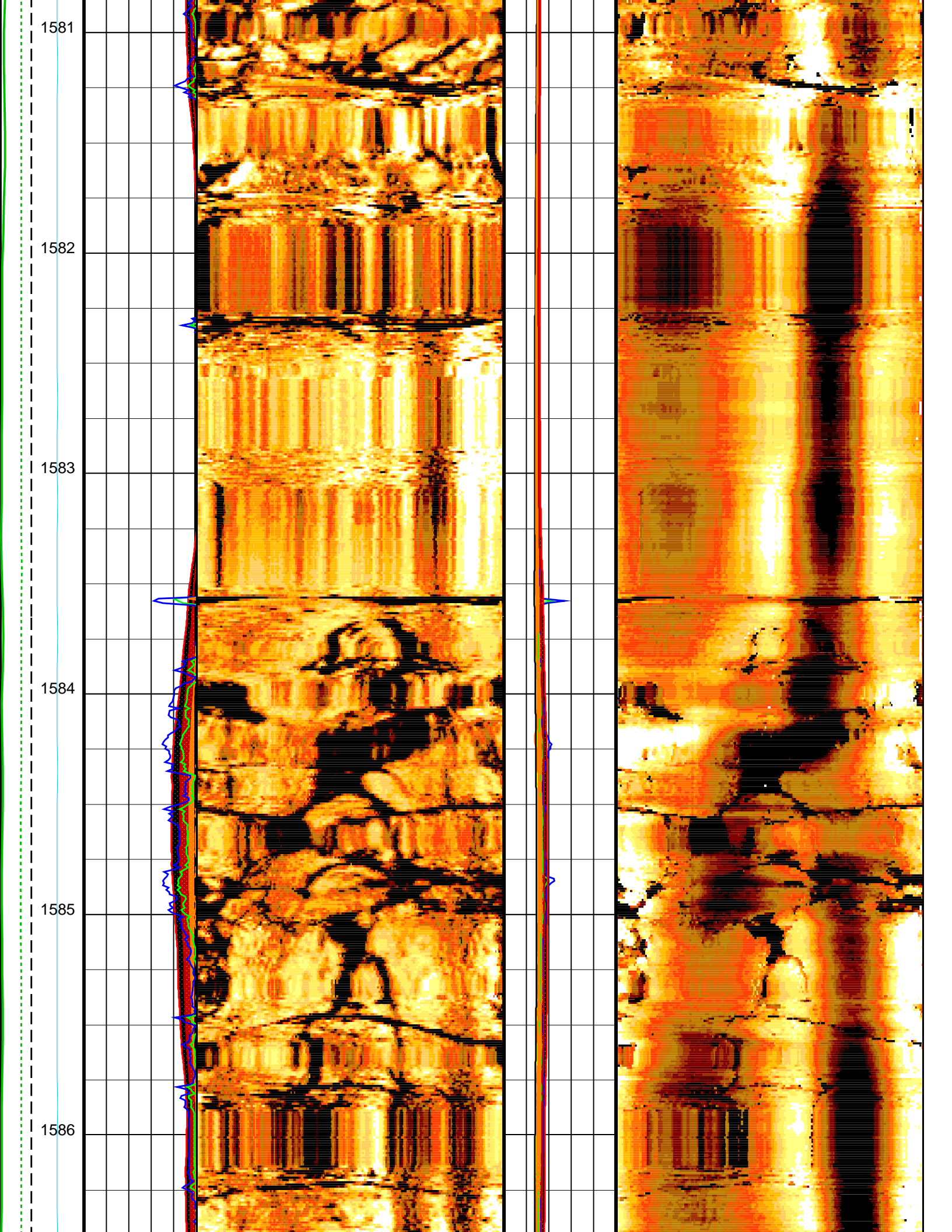


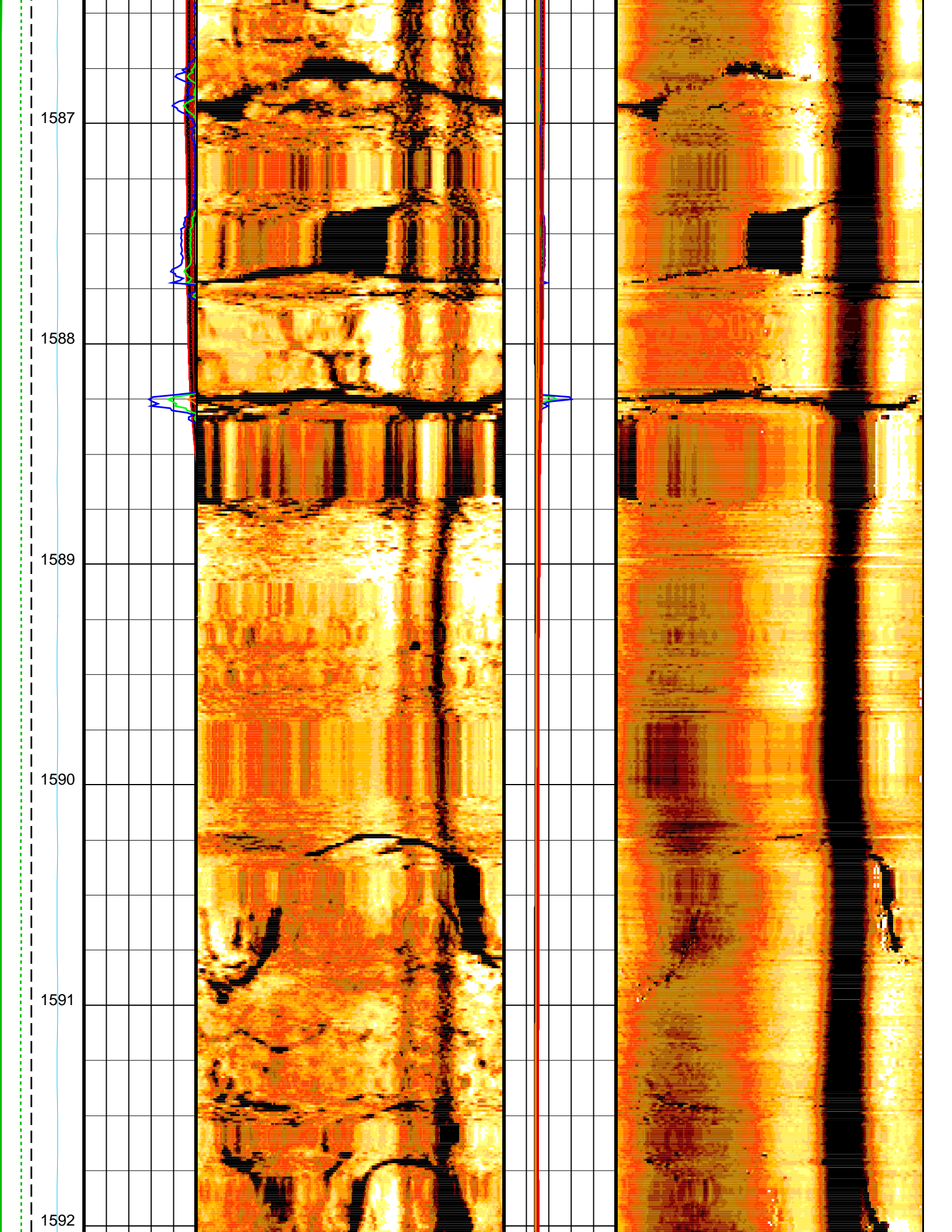


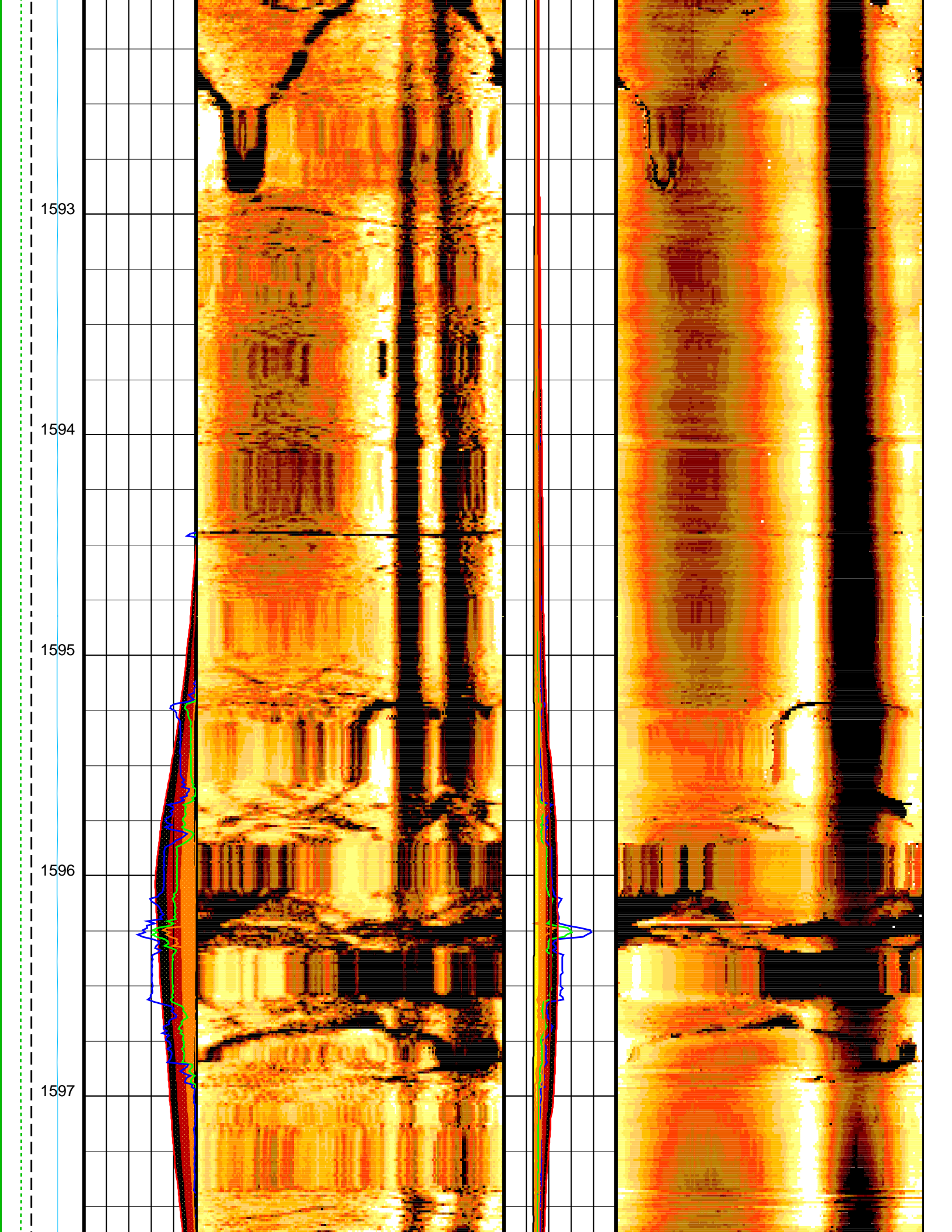


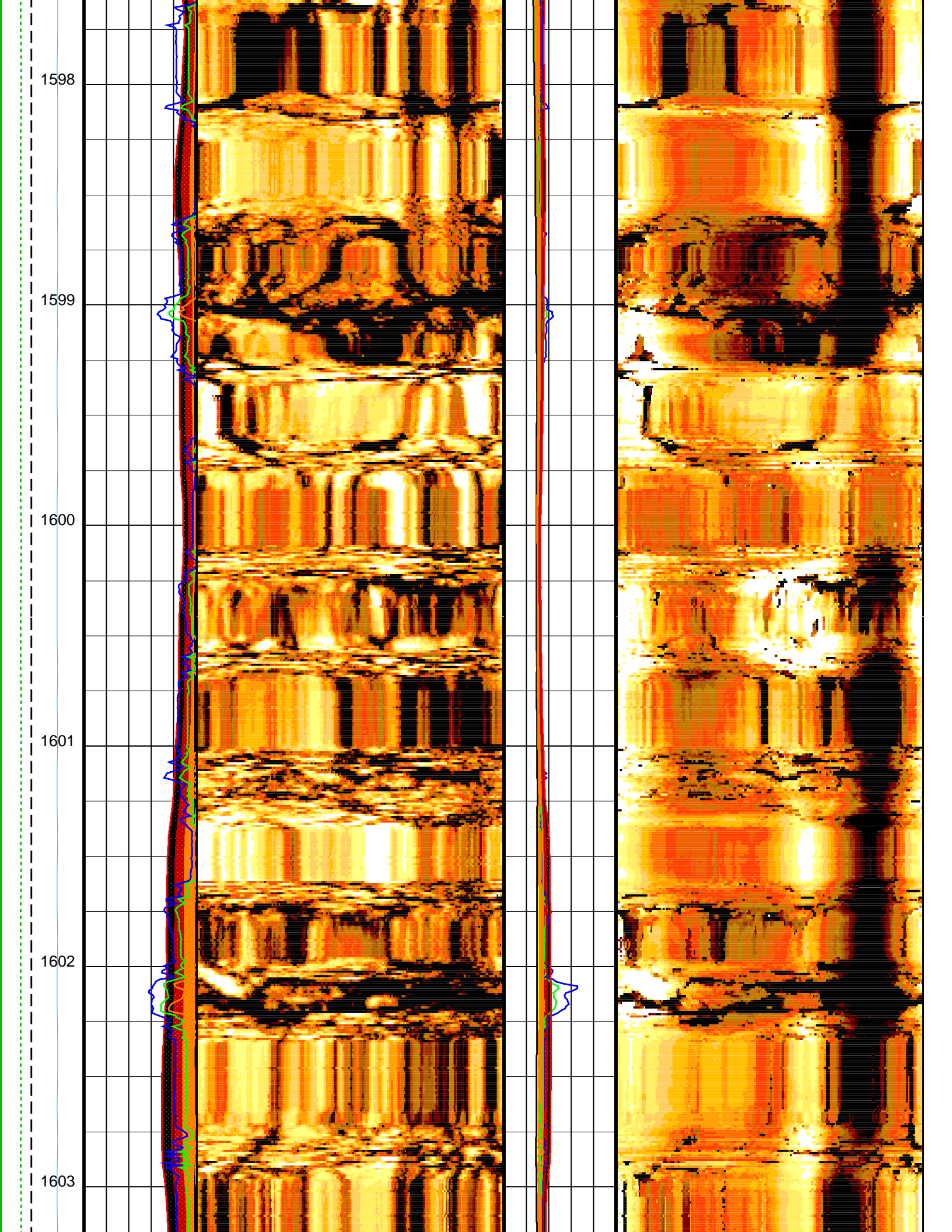


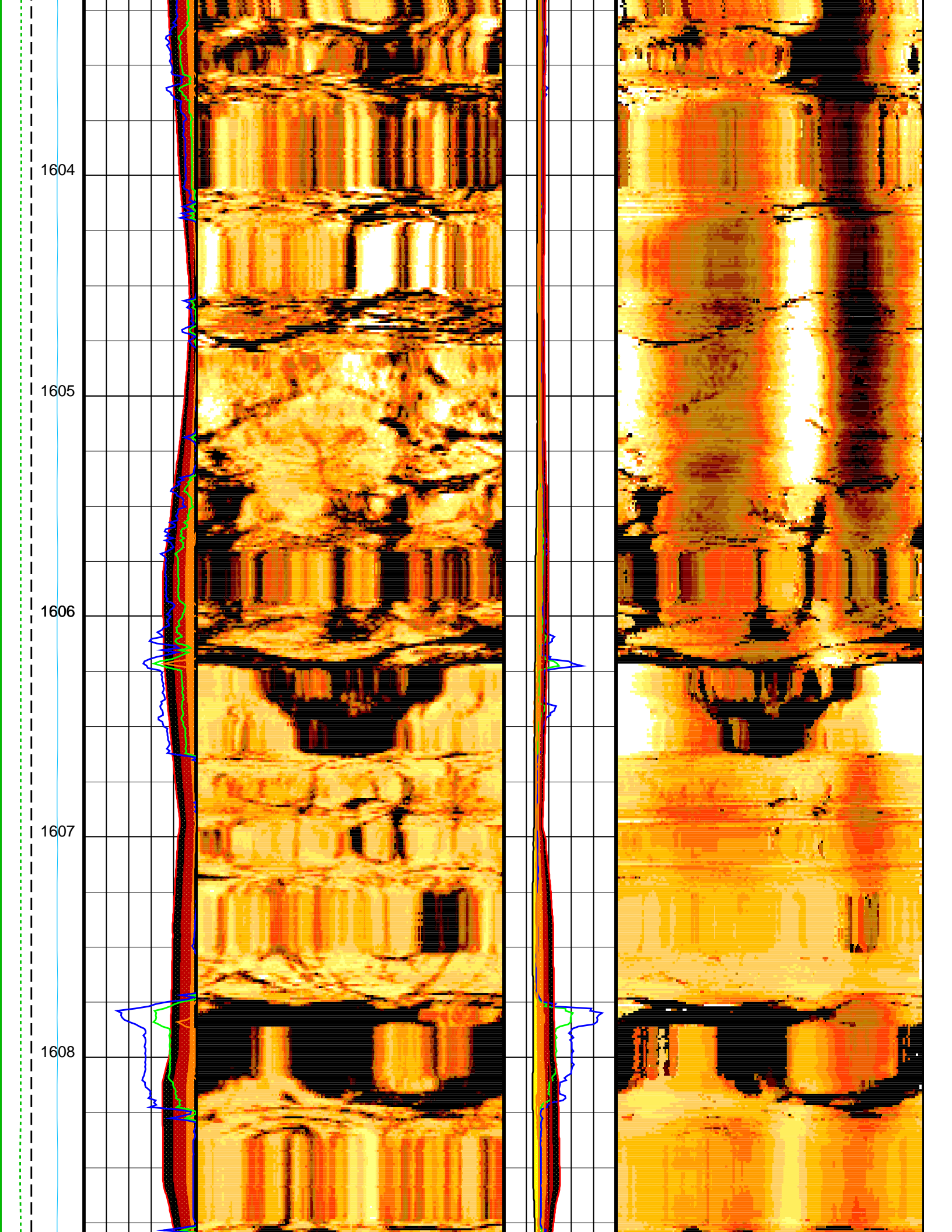


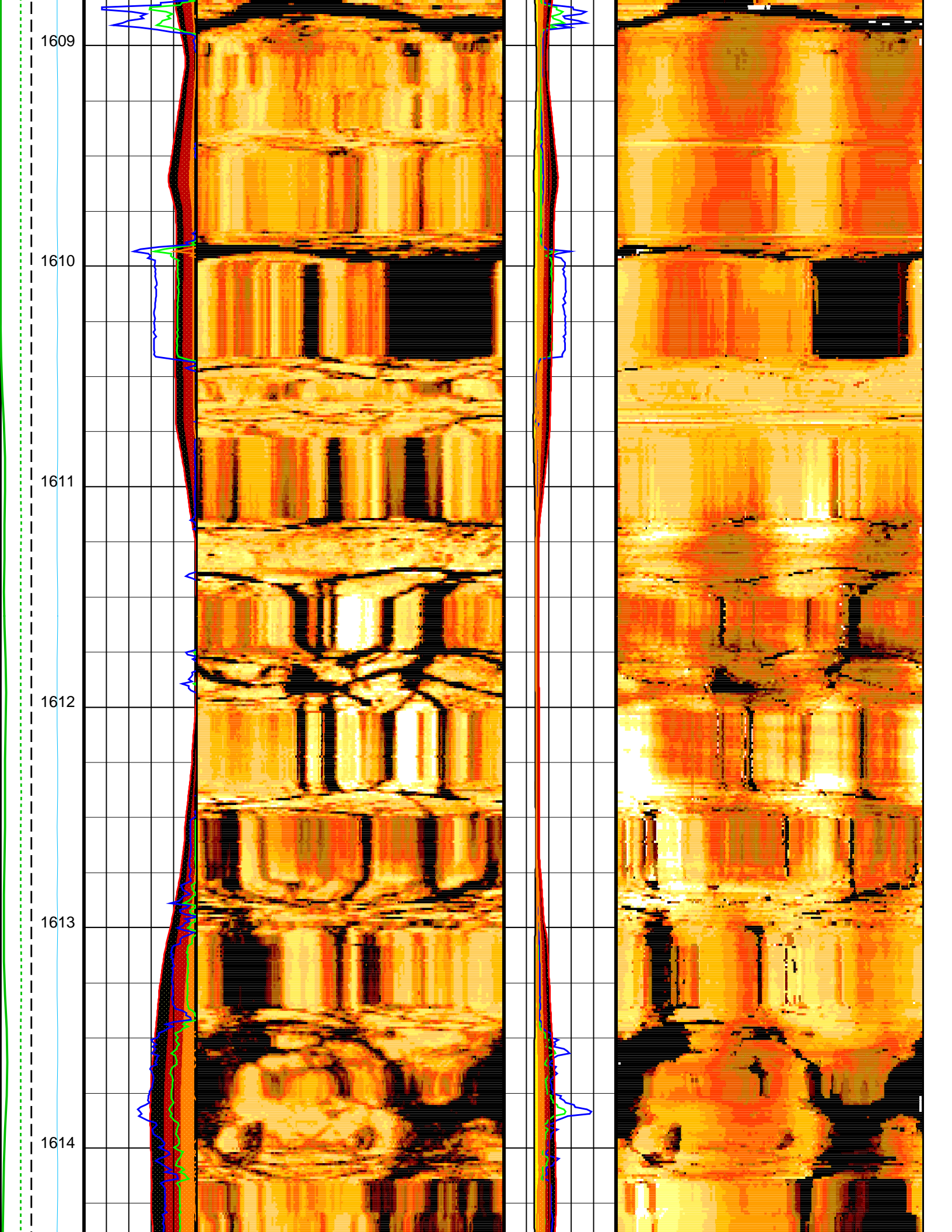


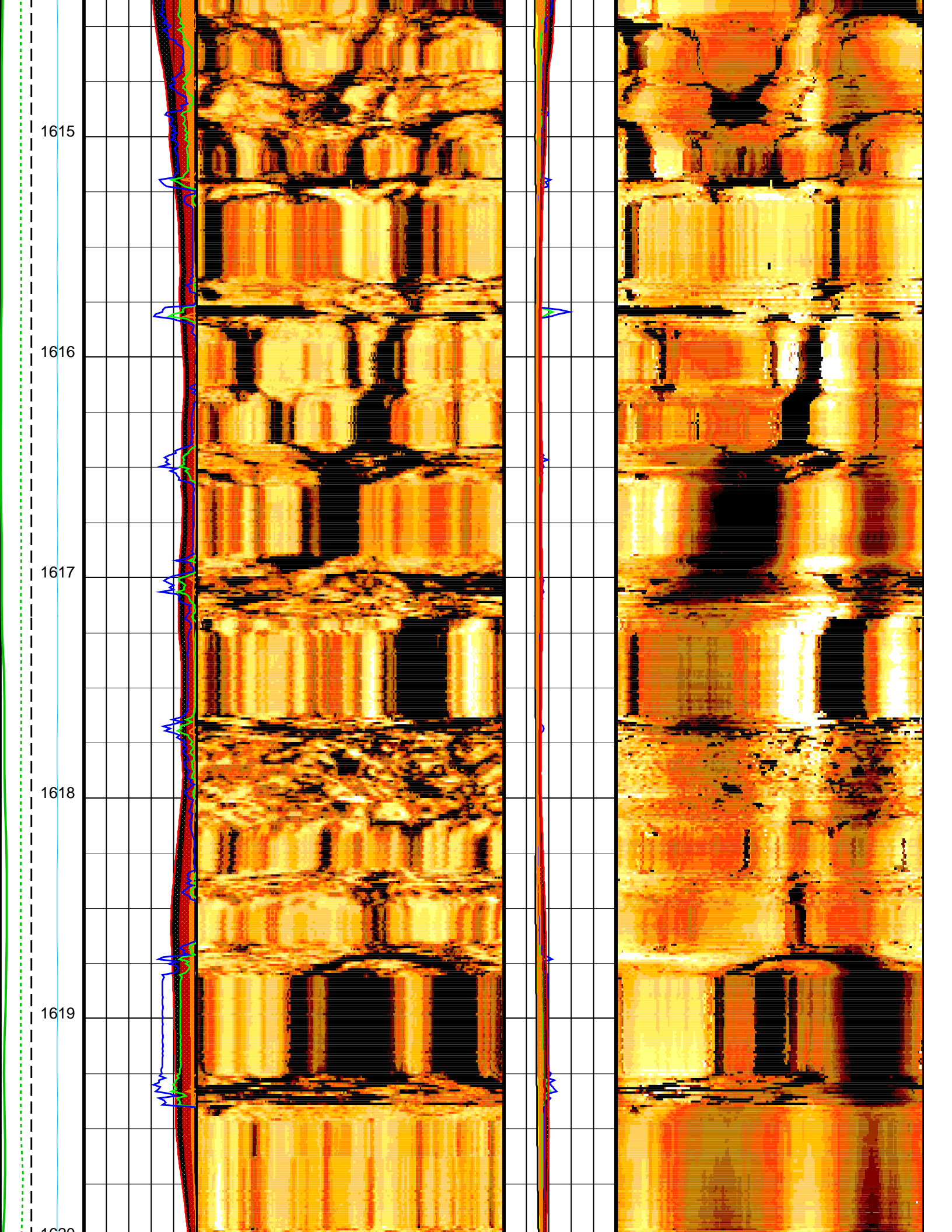


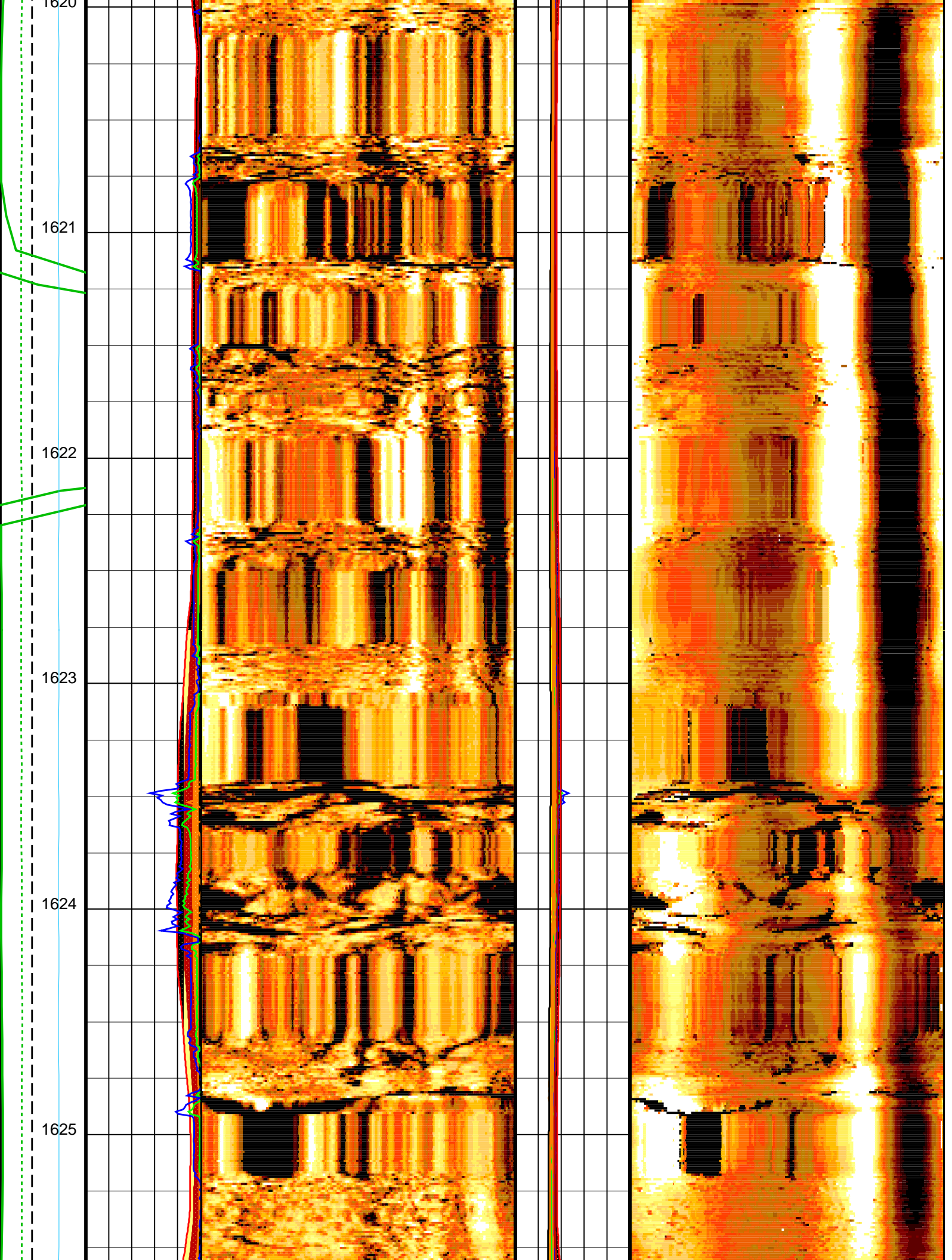


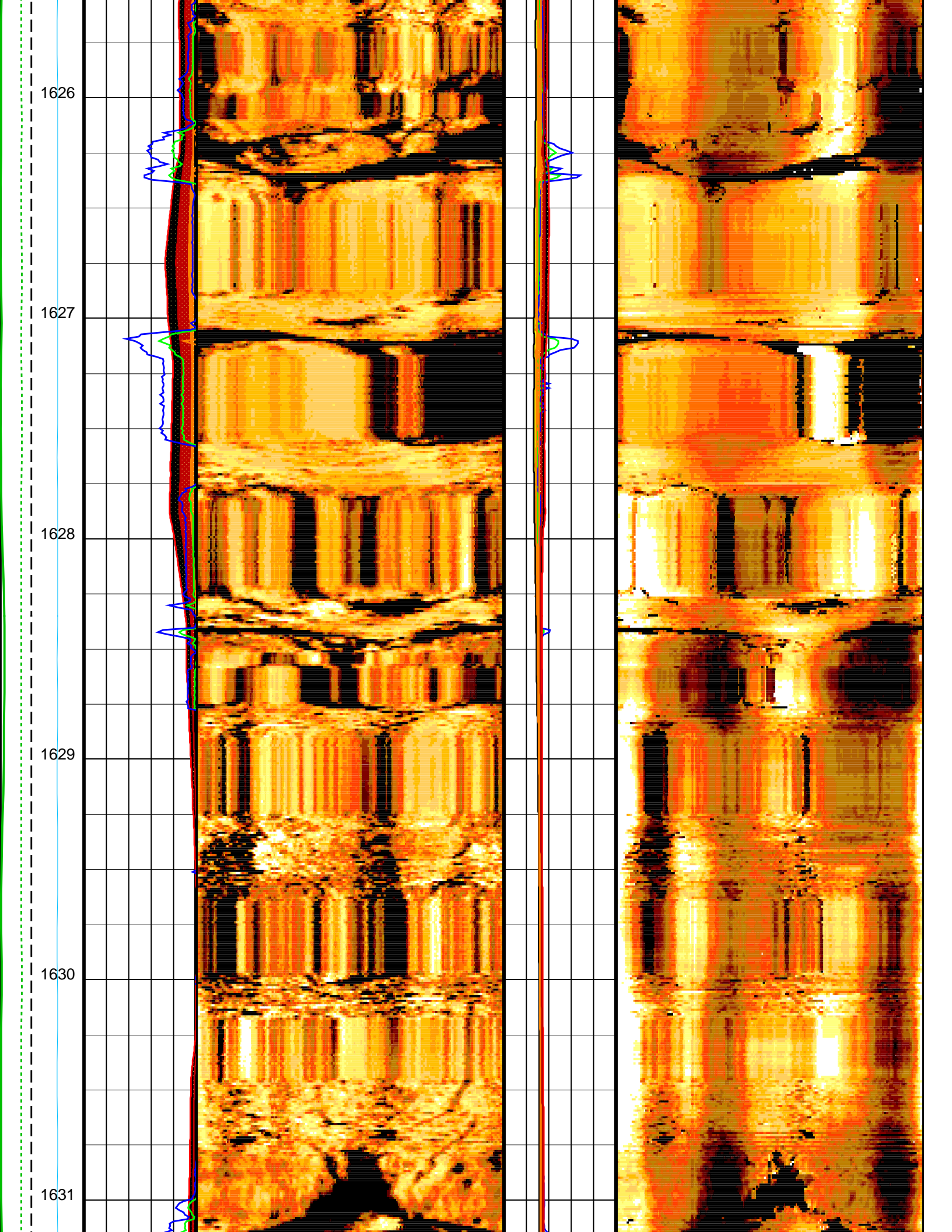


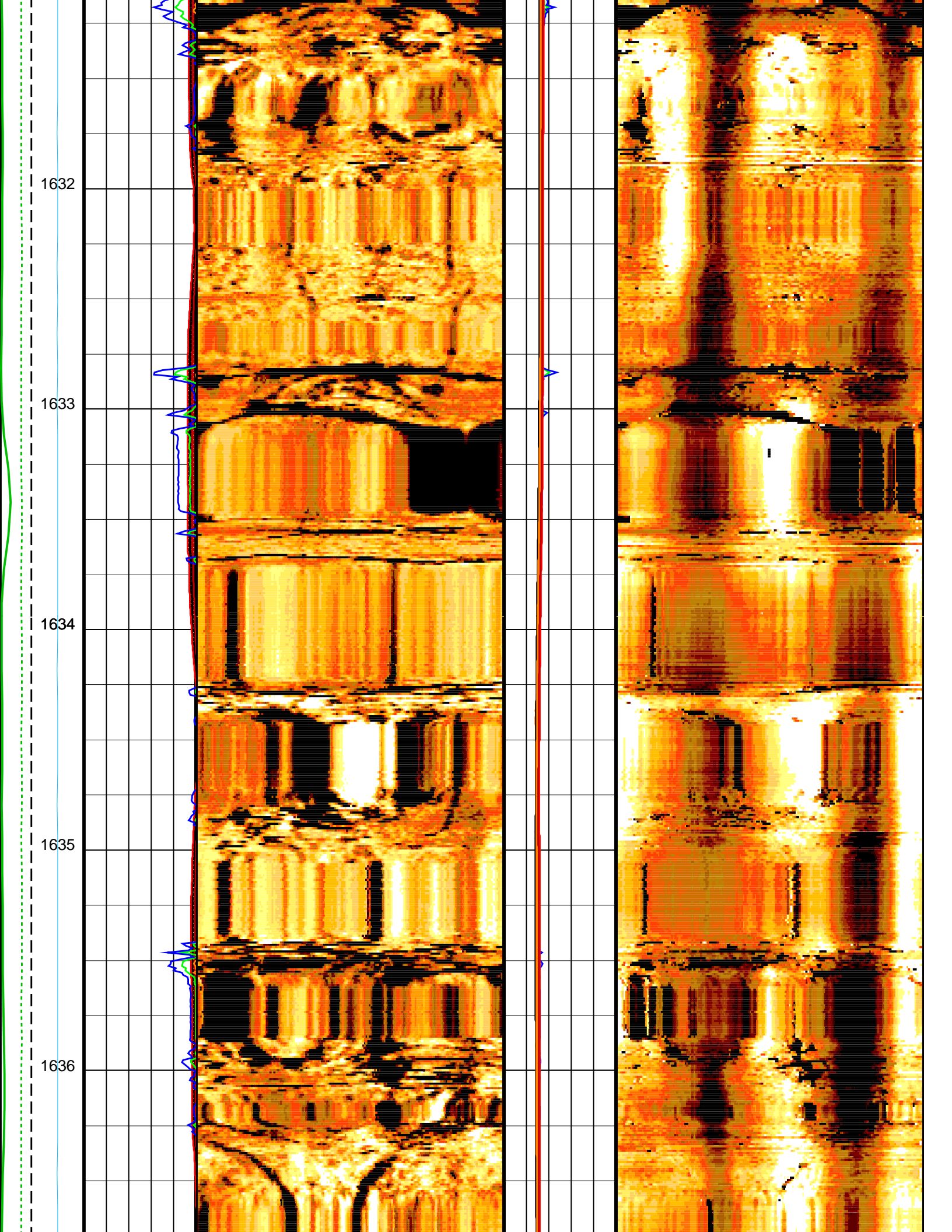


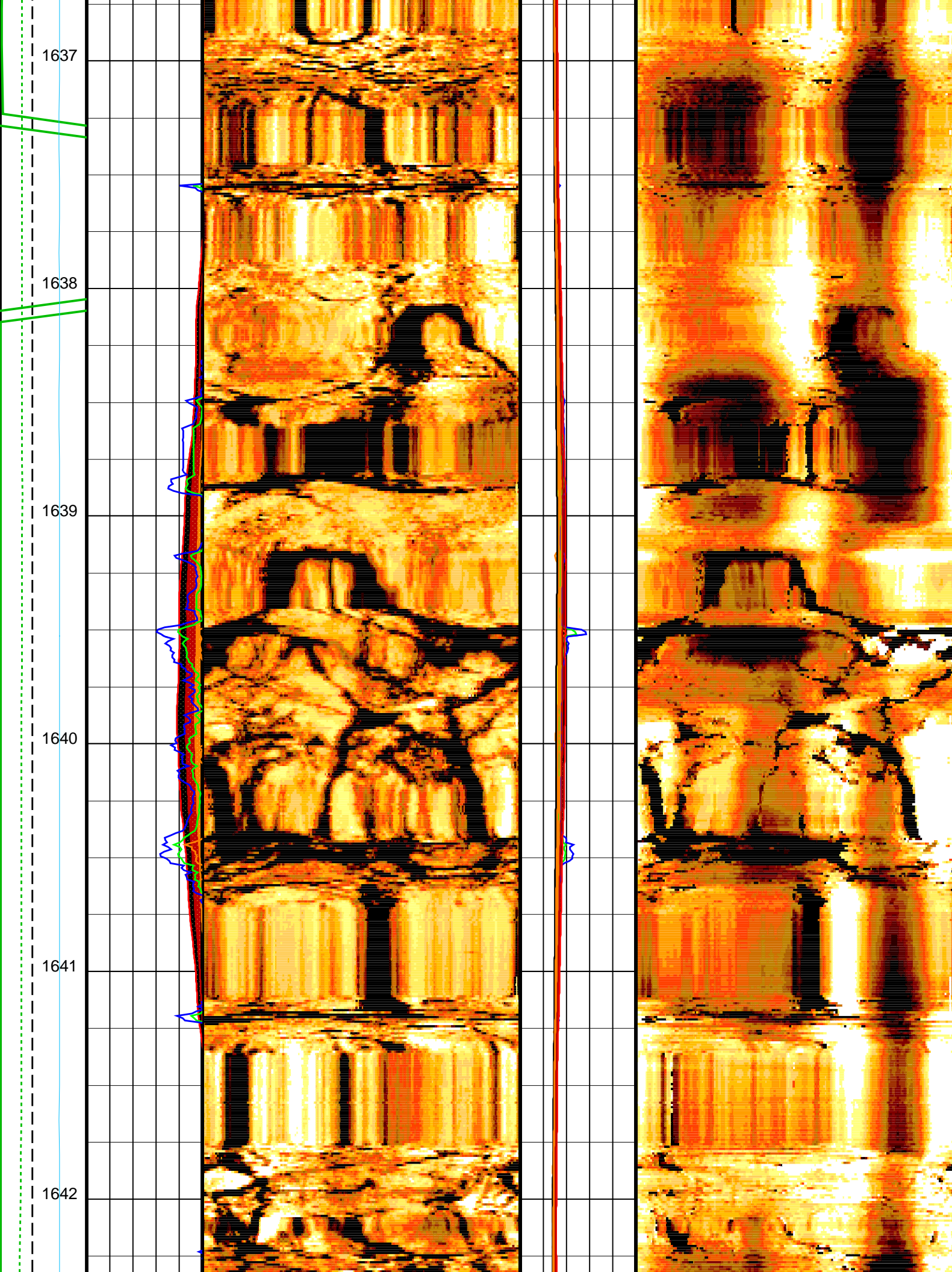


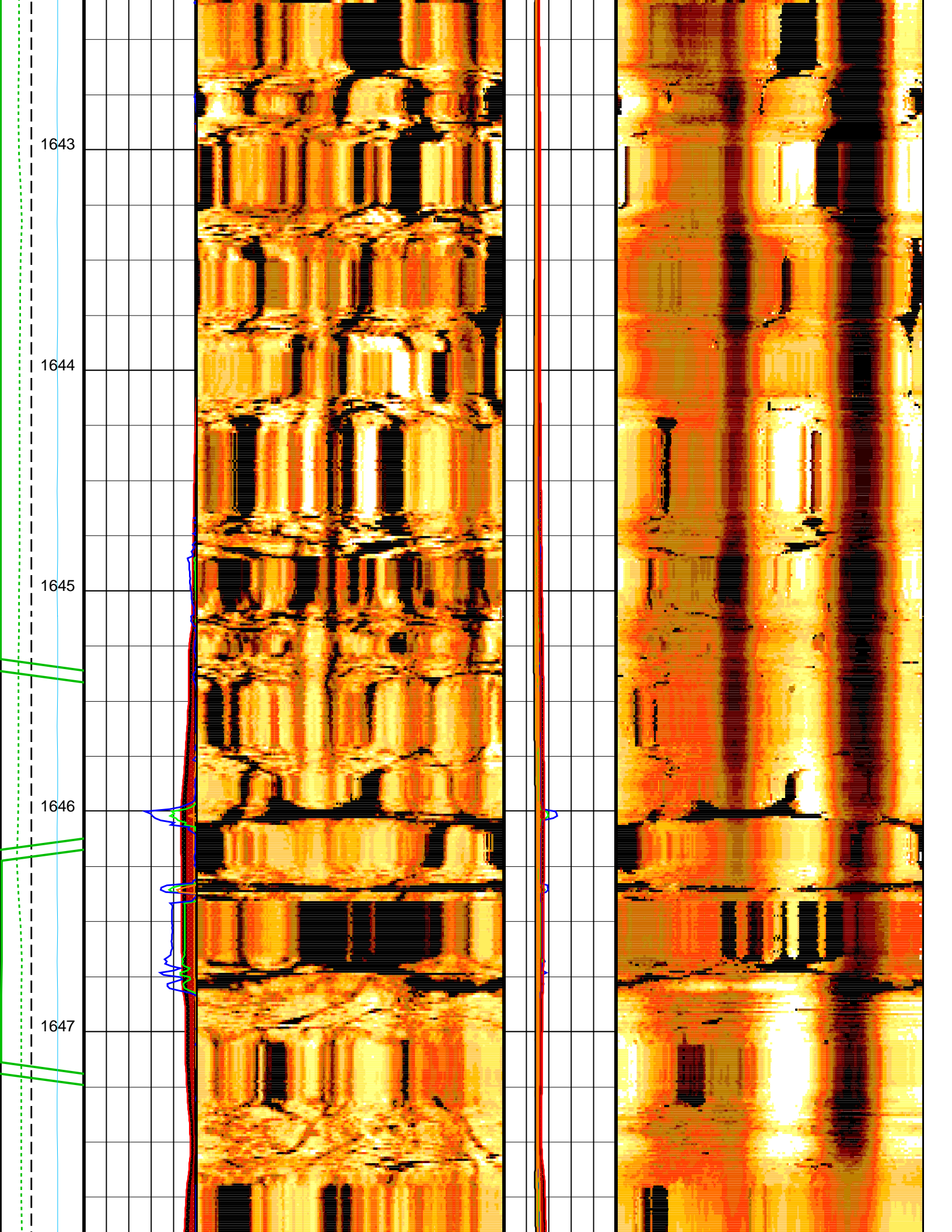


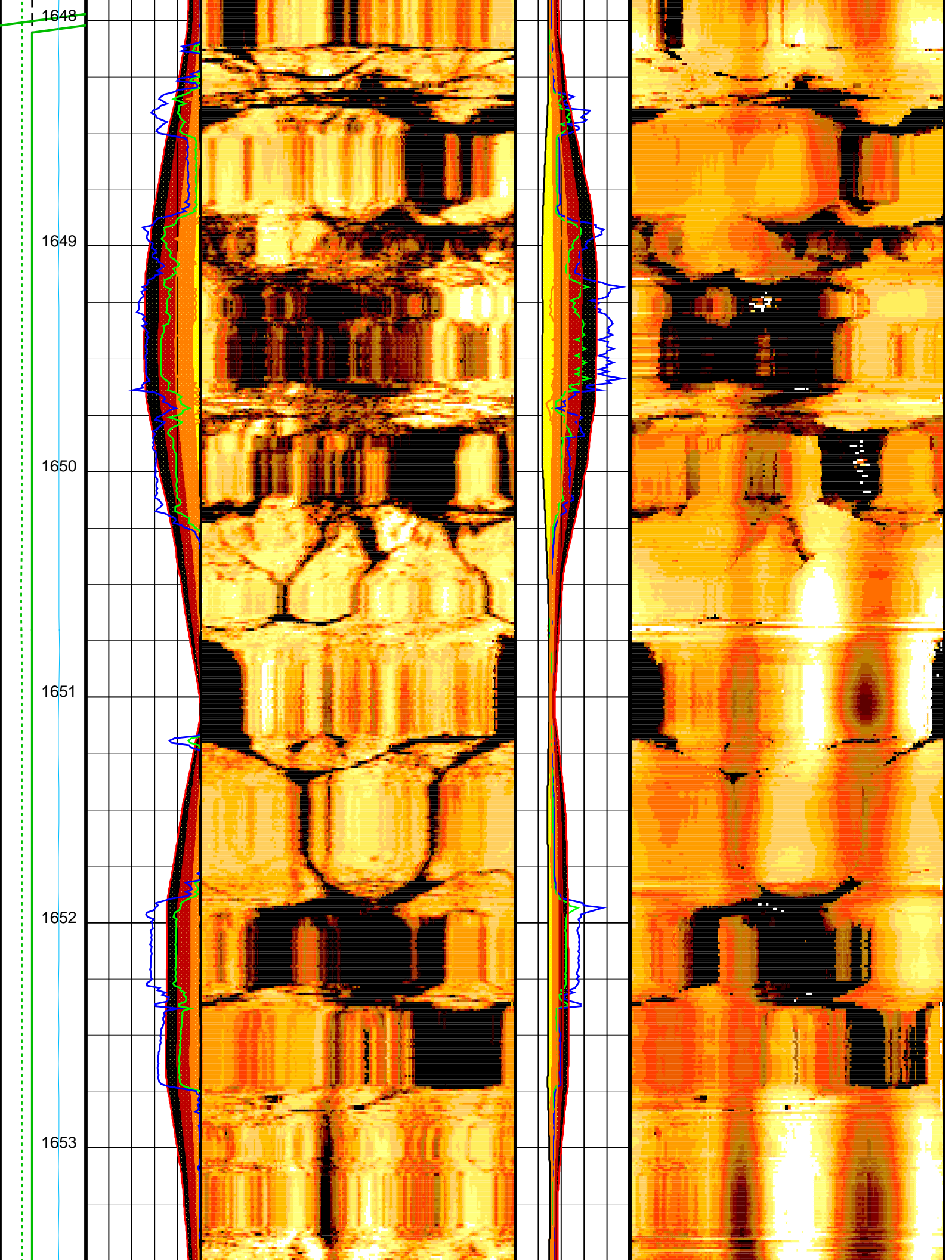












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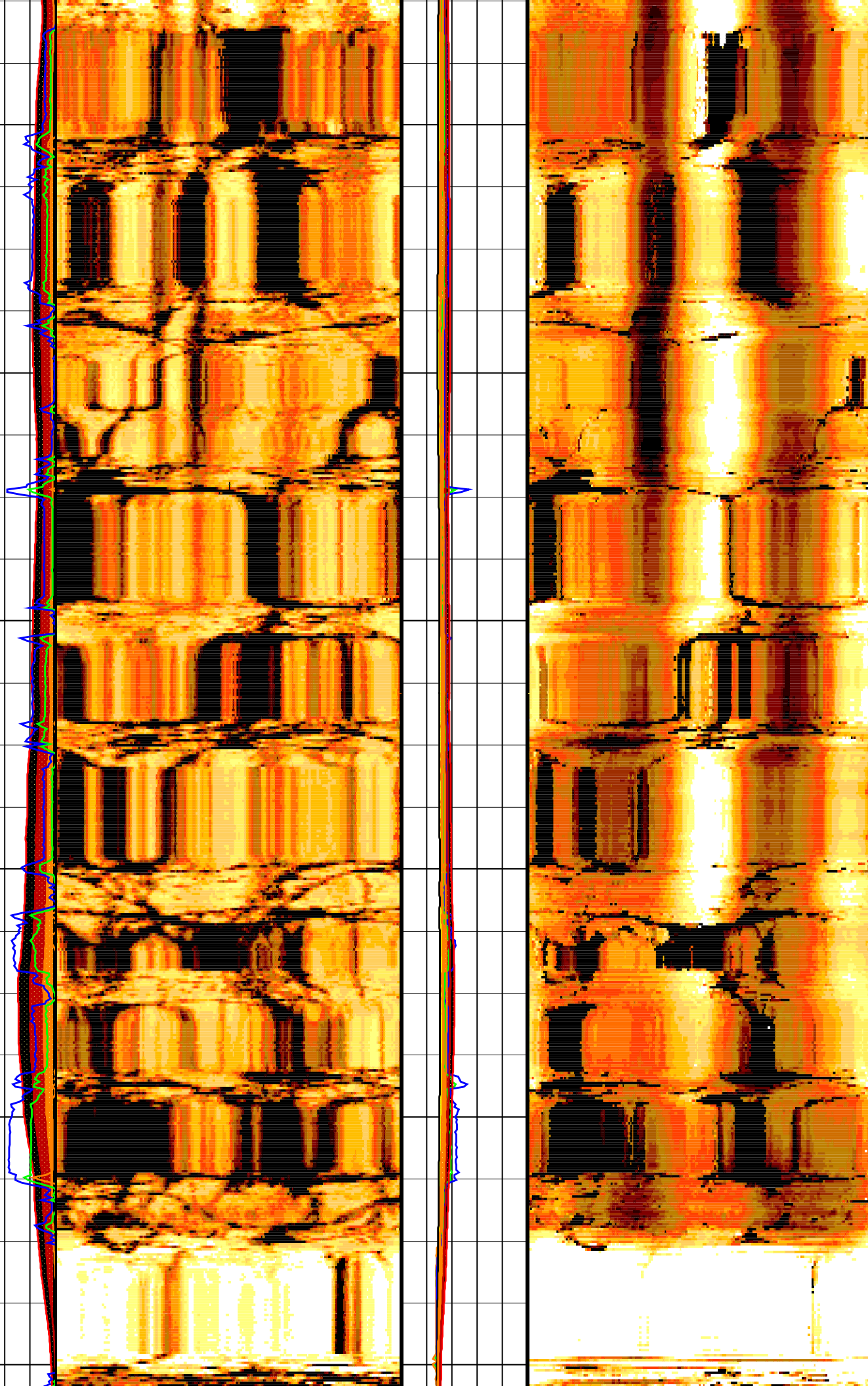
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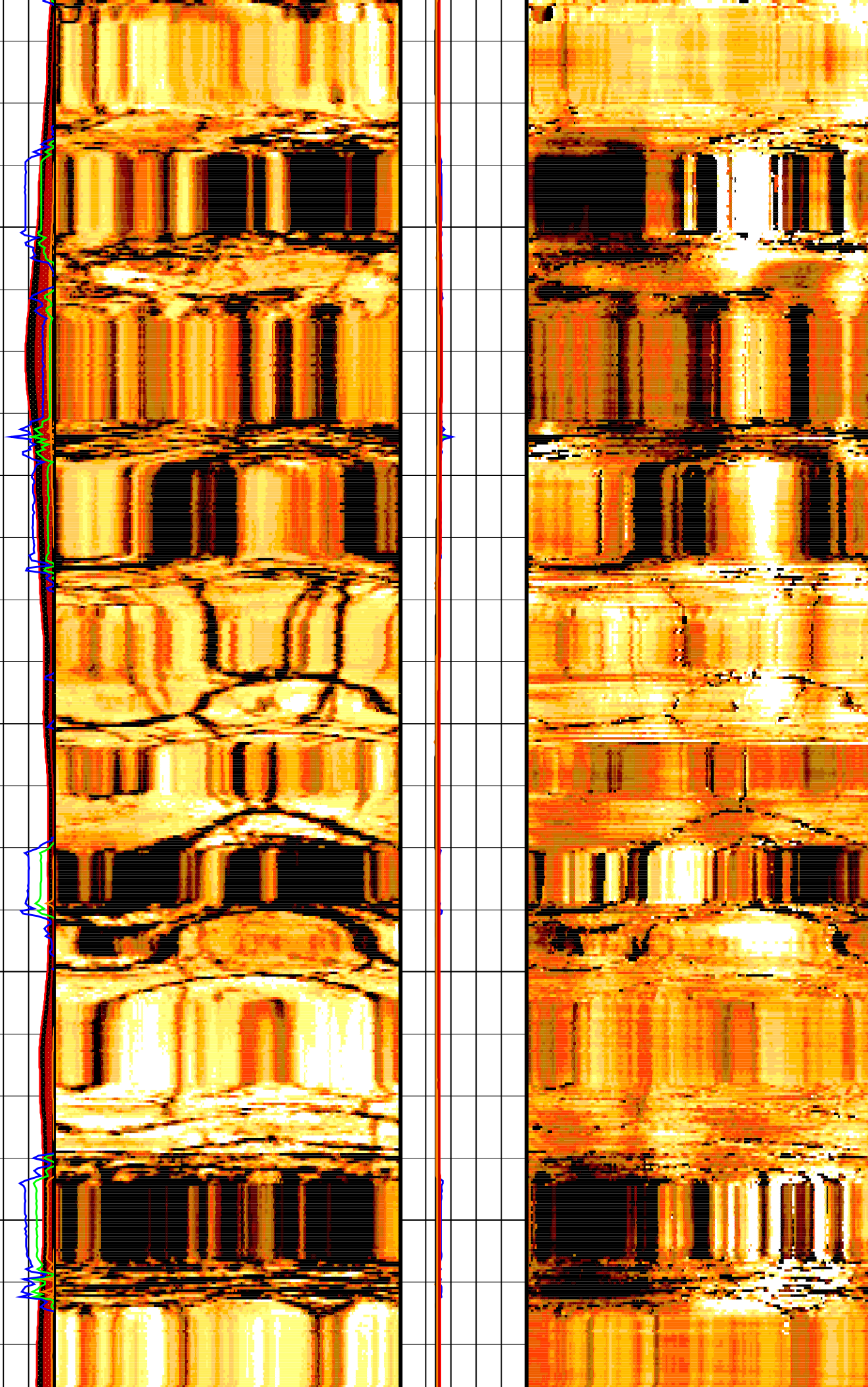
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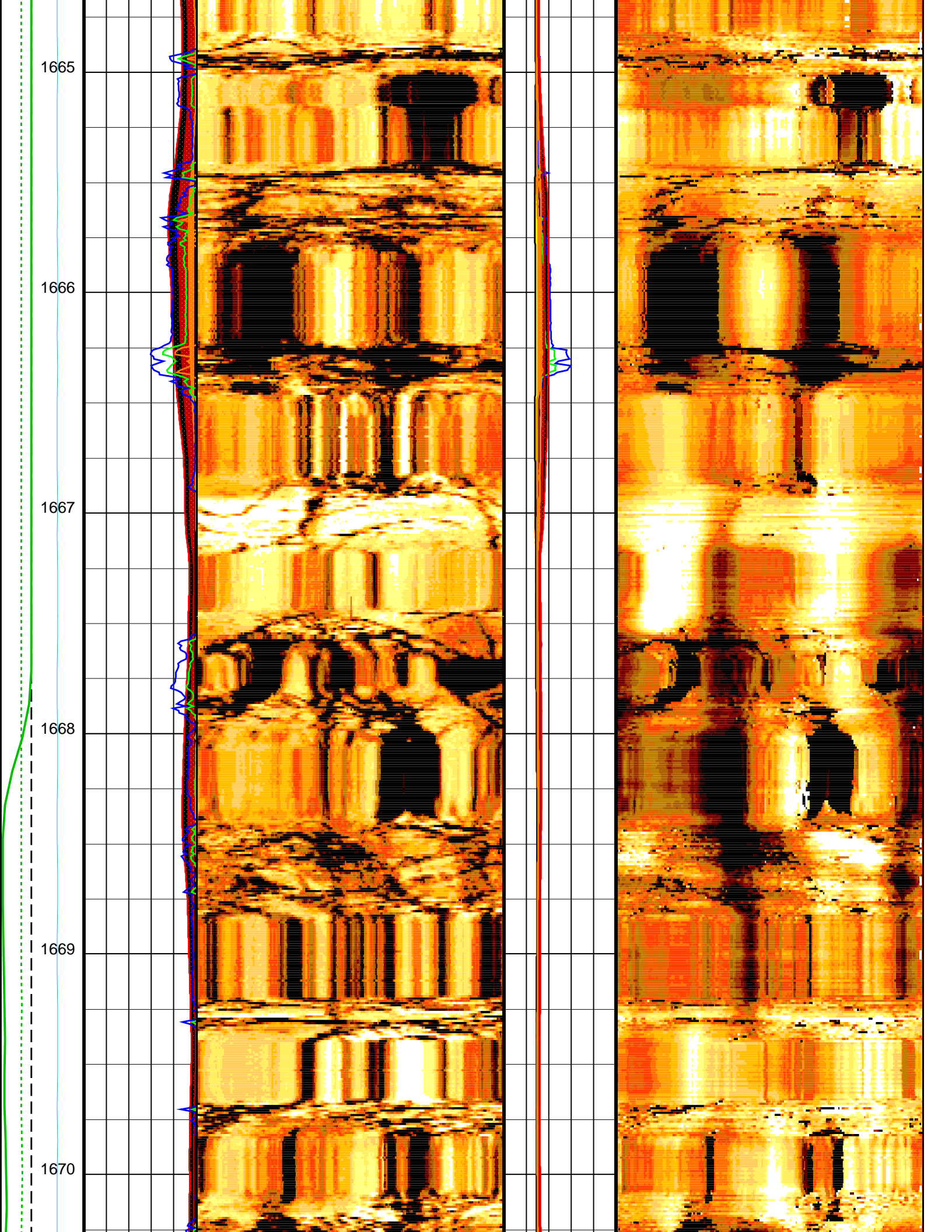
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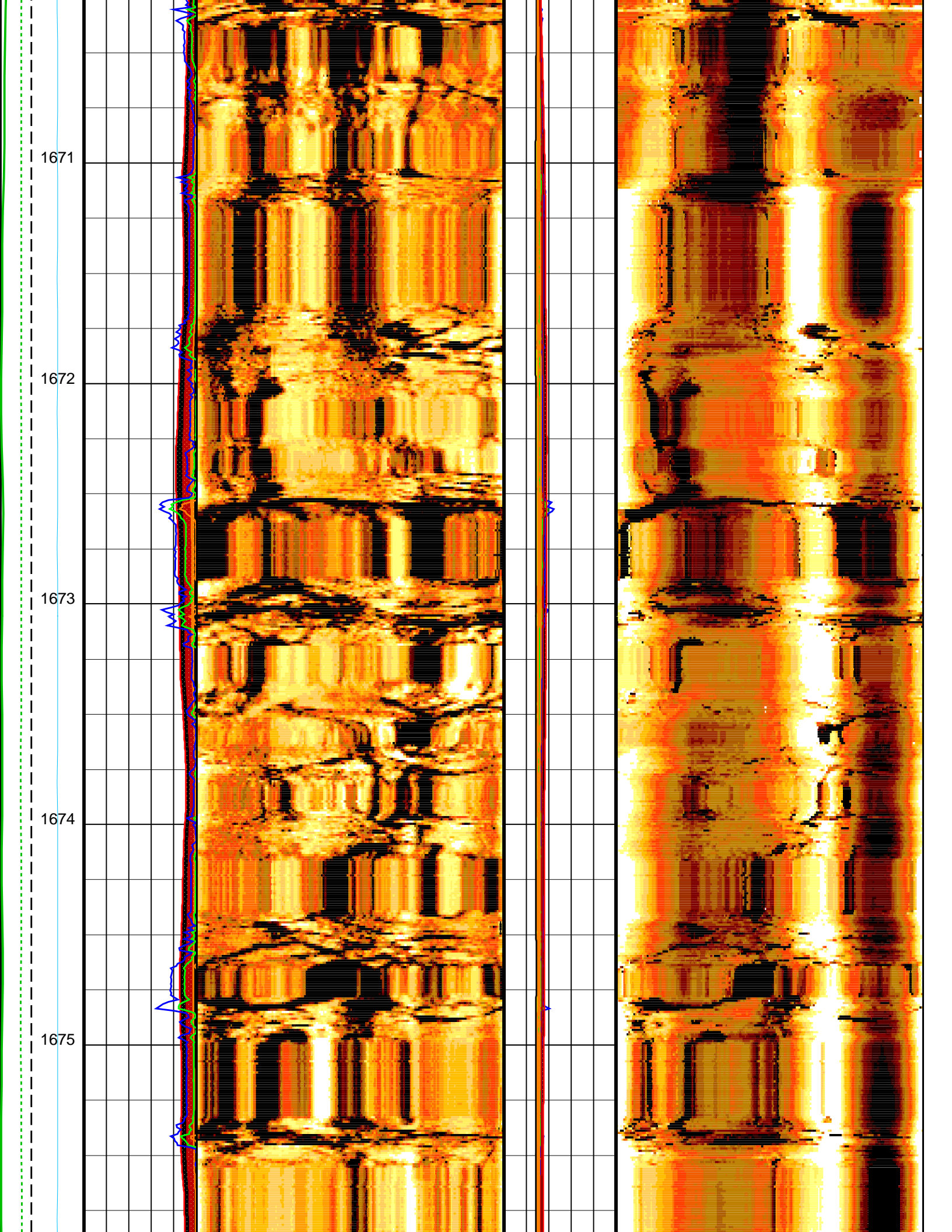
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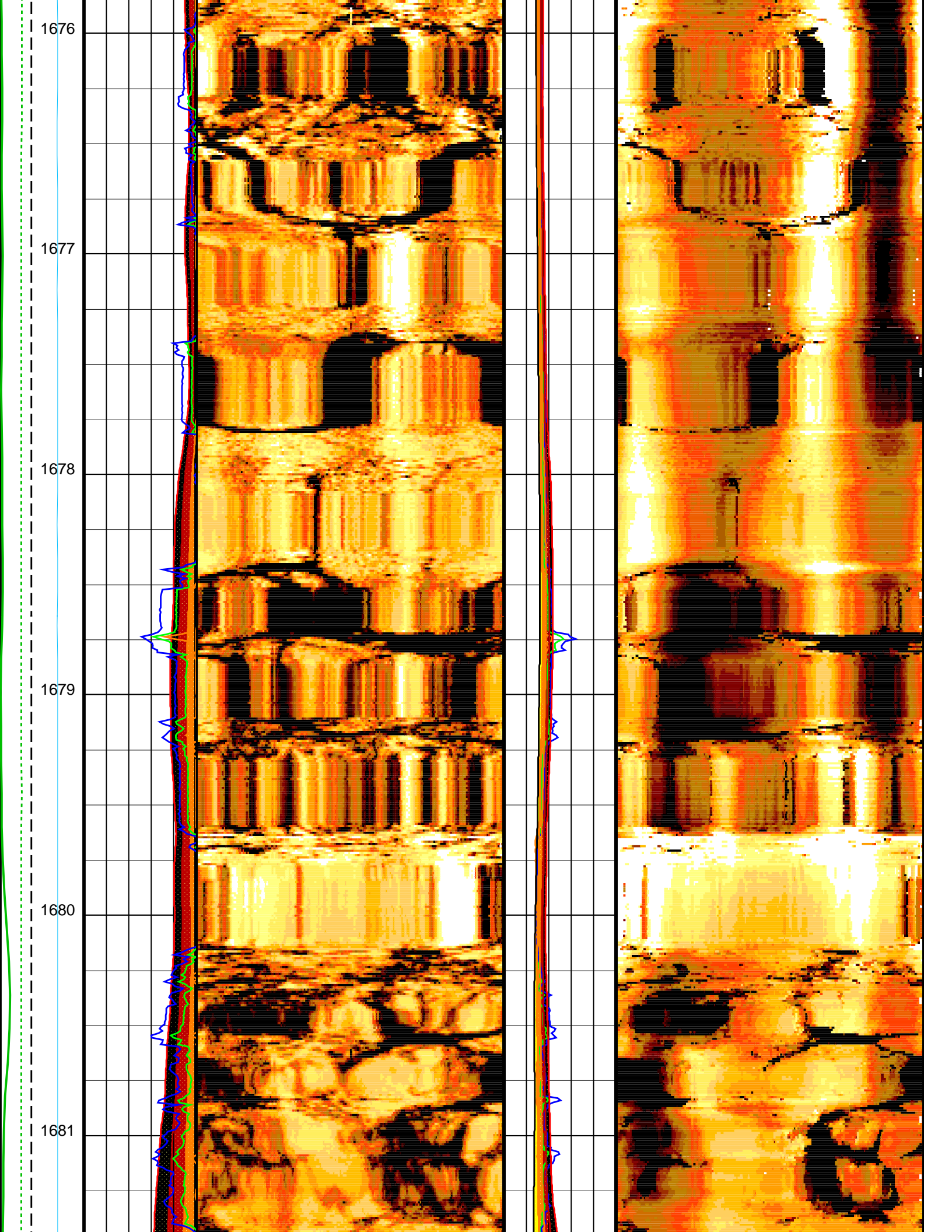
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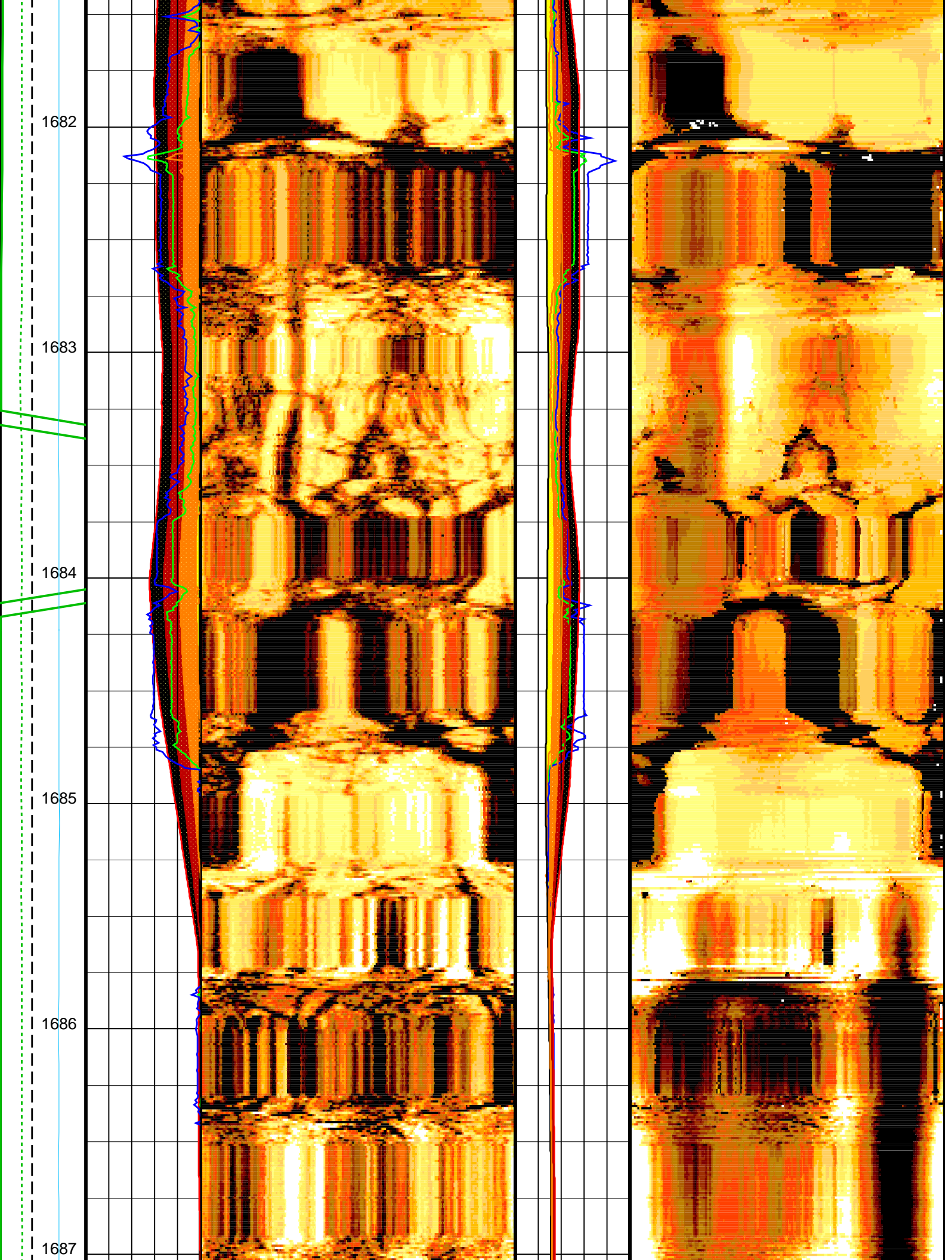
1664

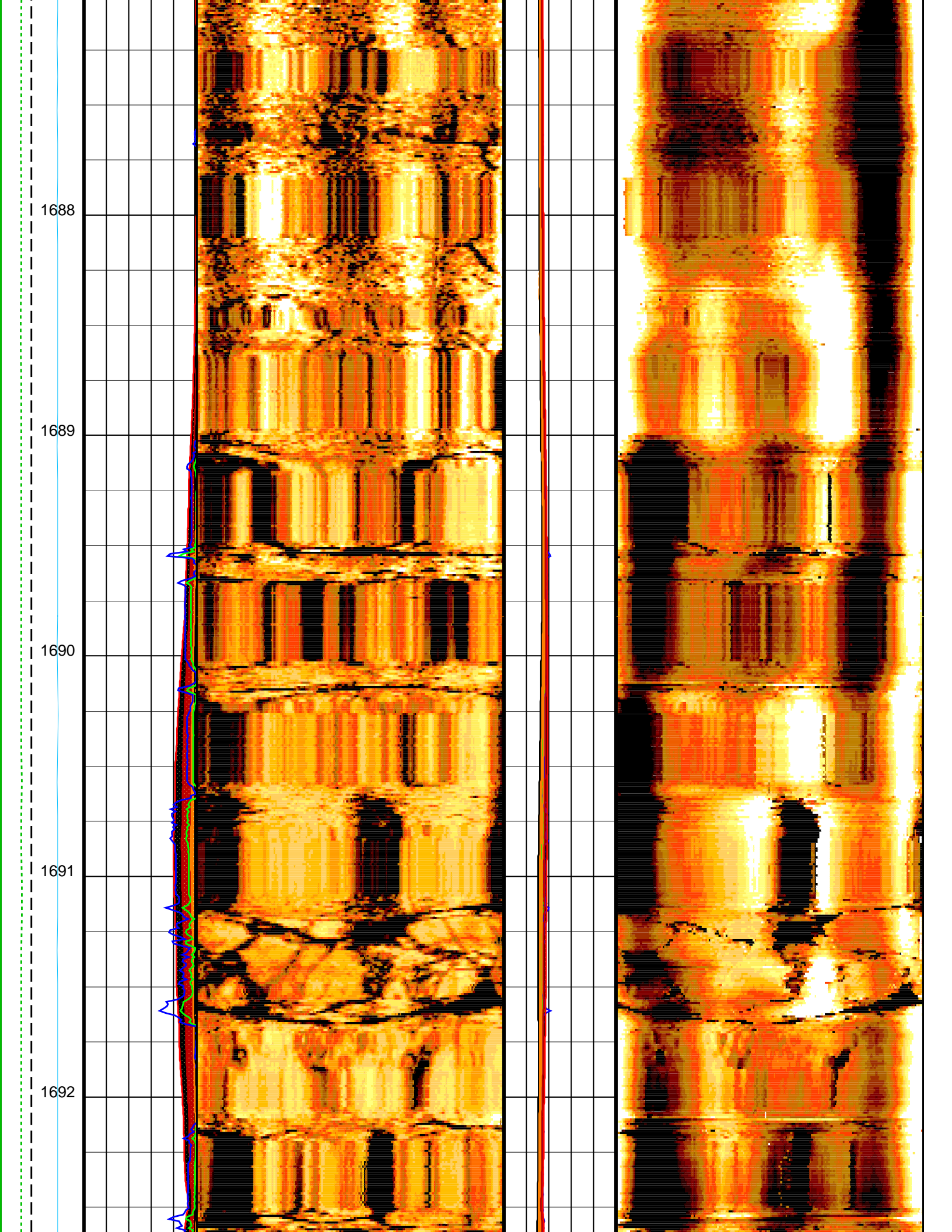


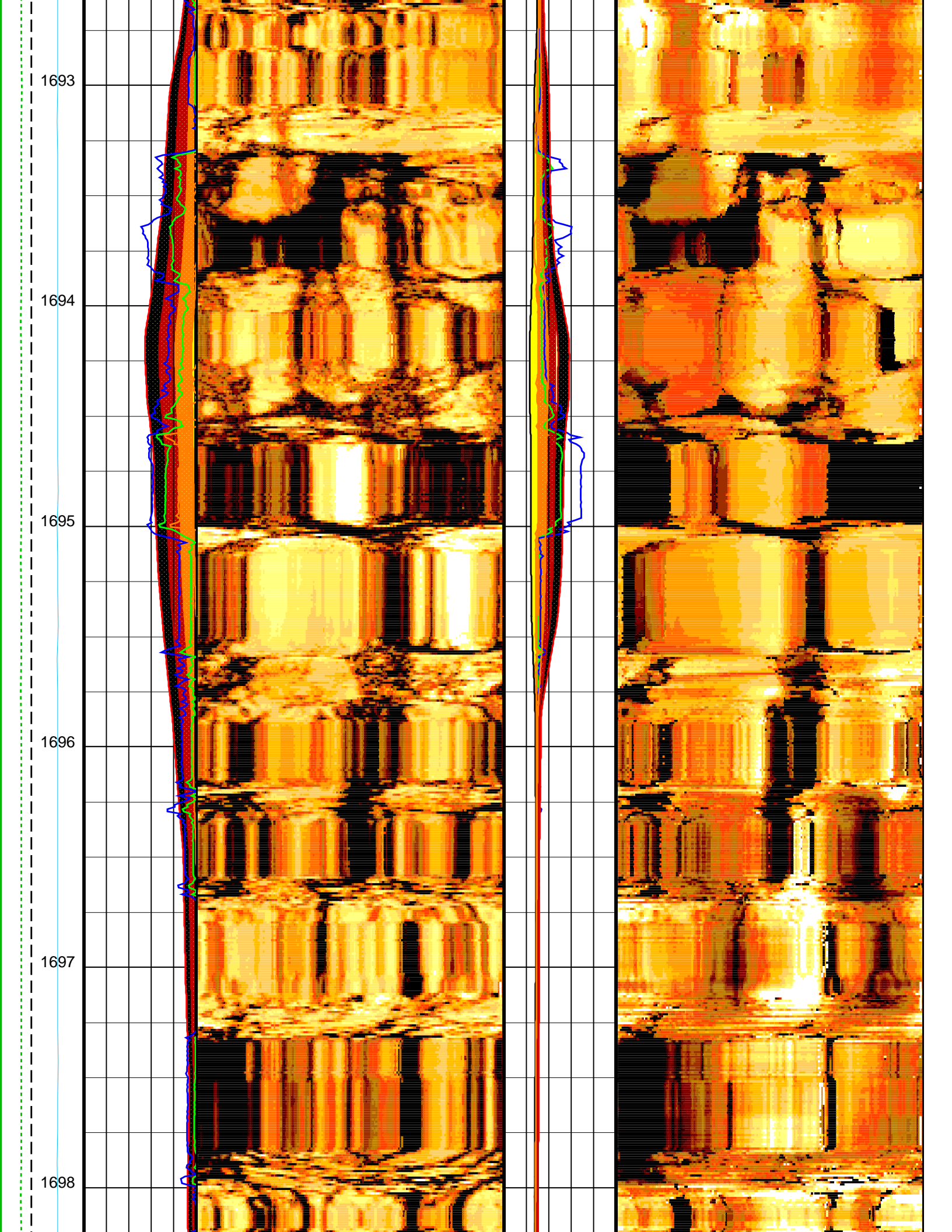


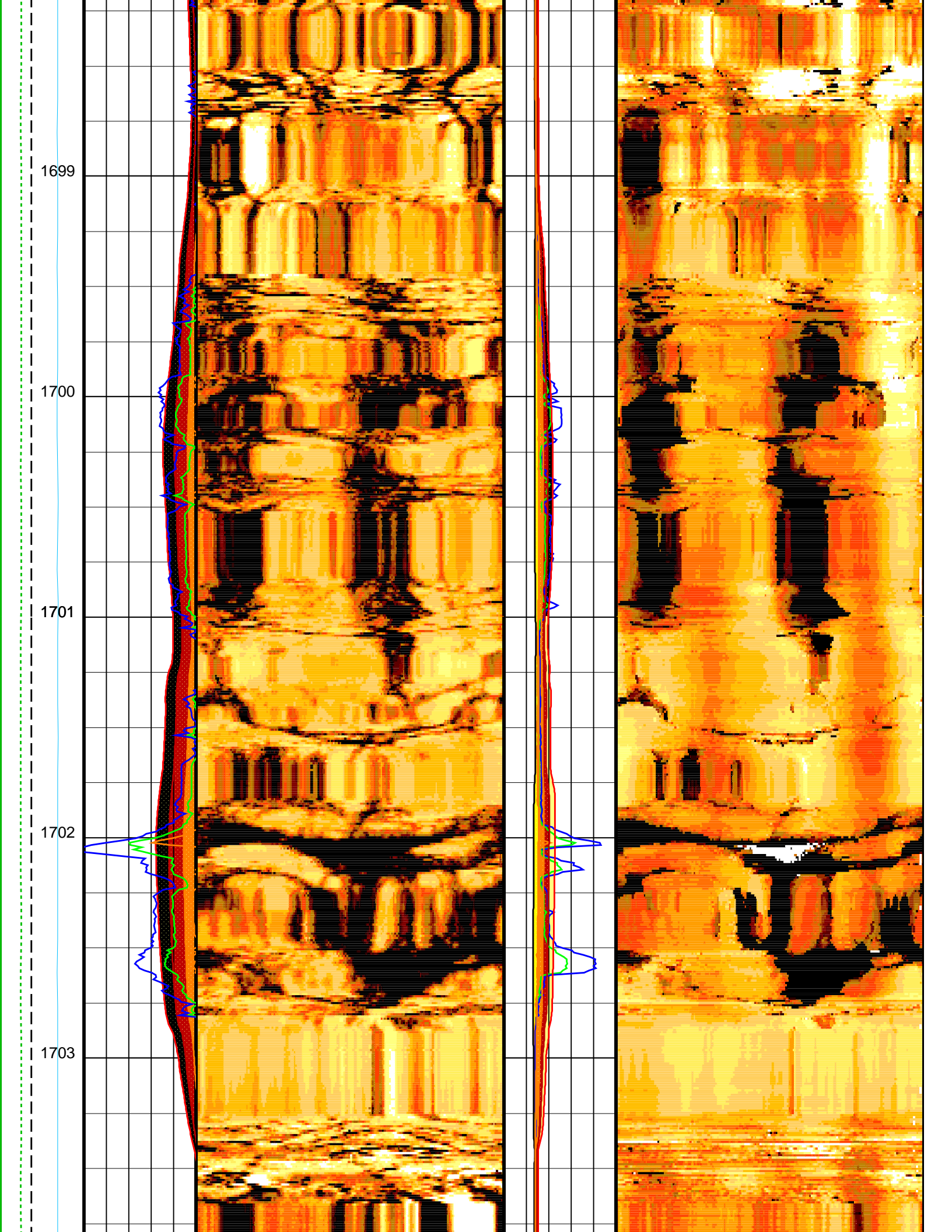


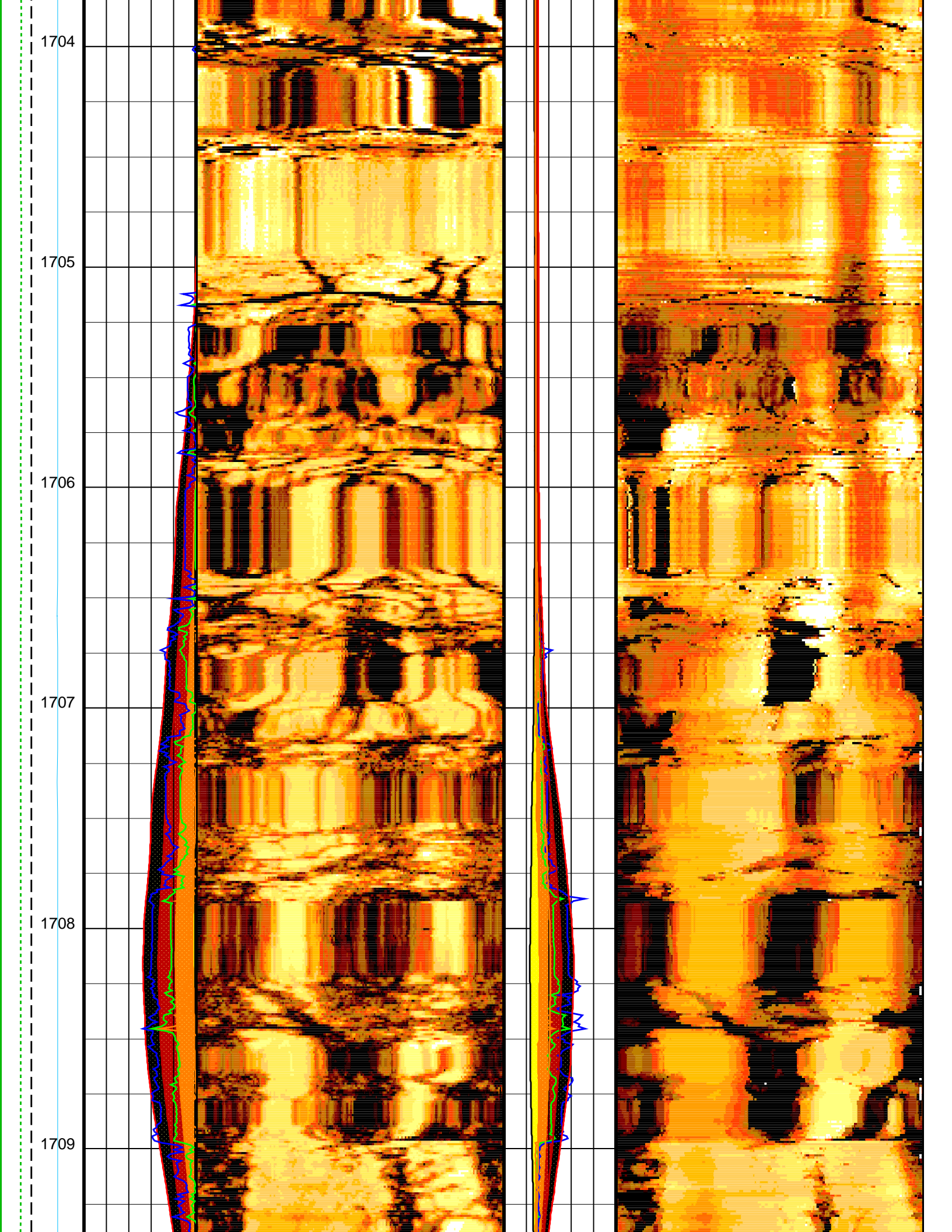


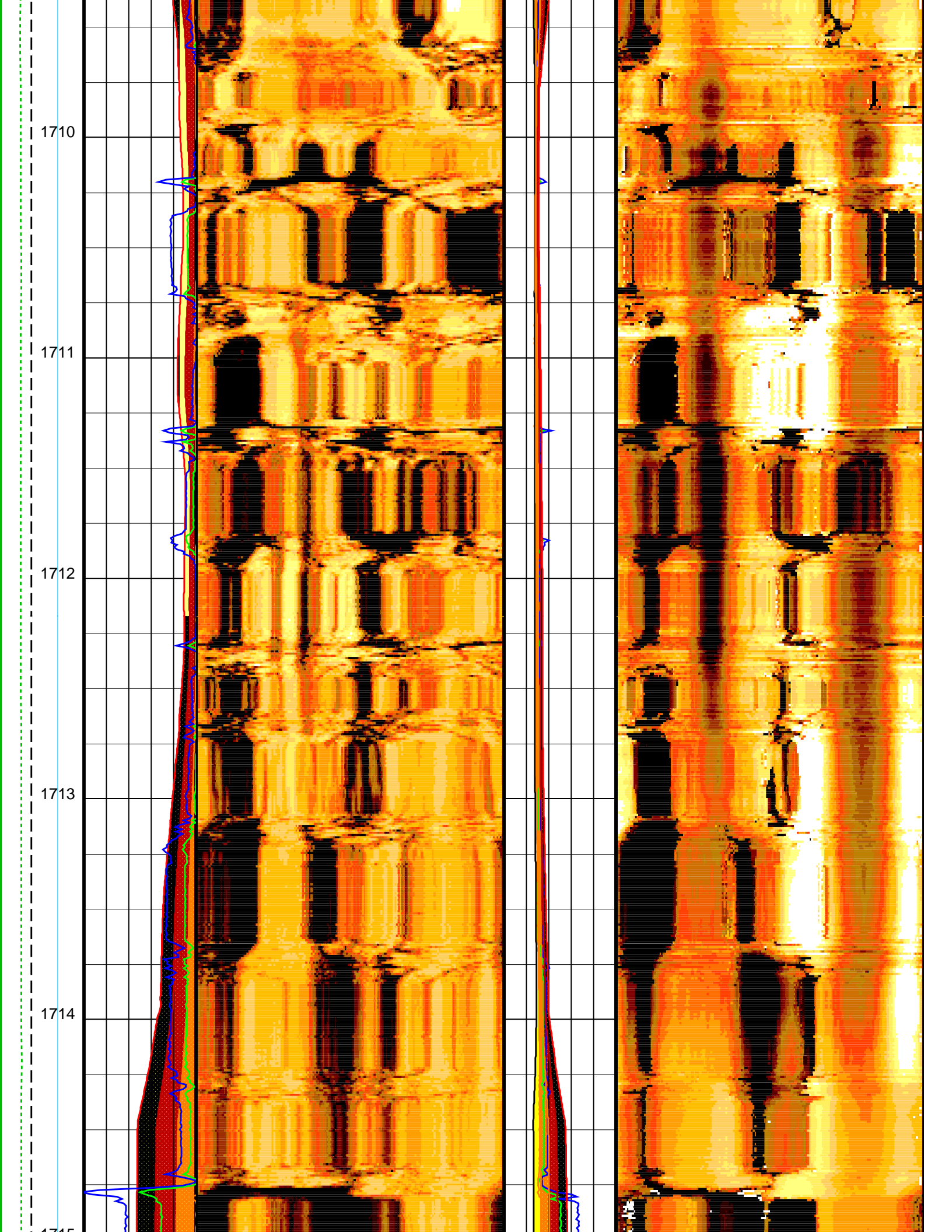


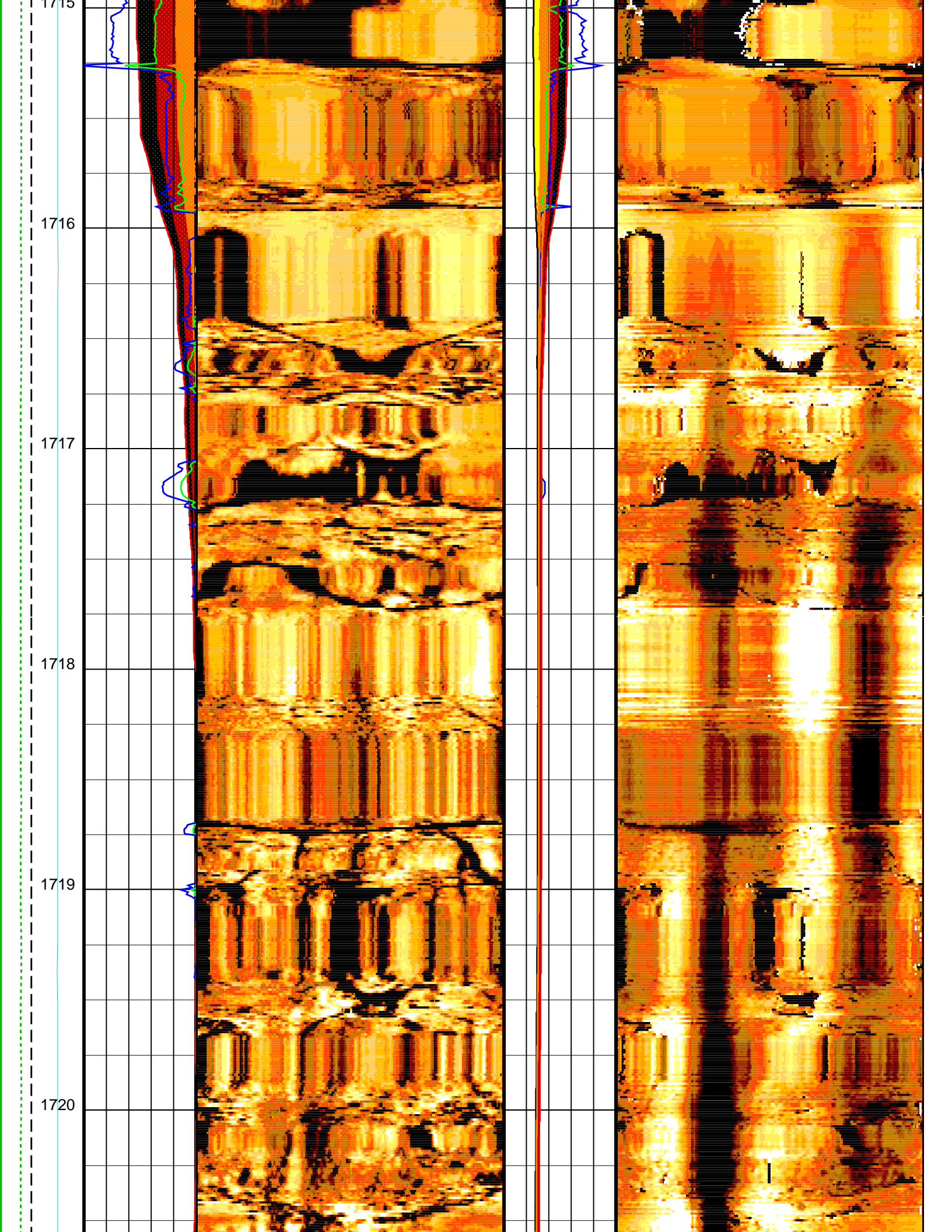


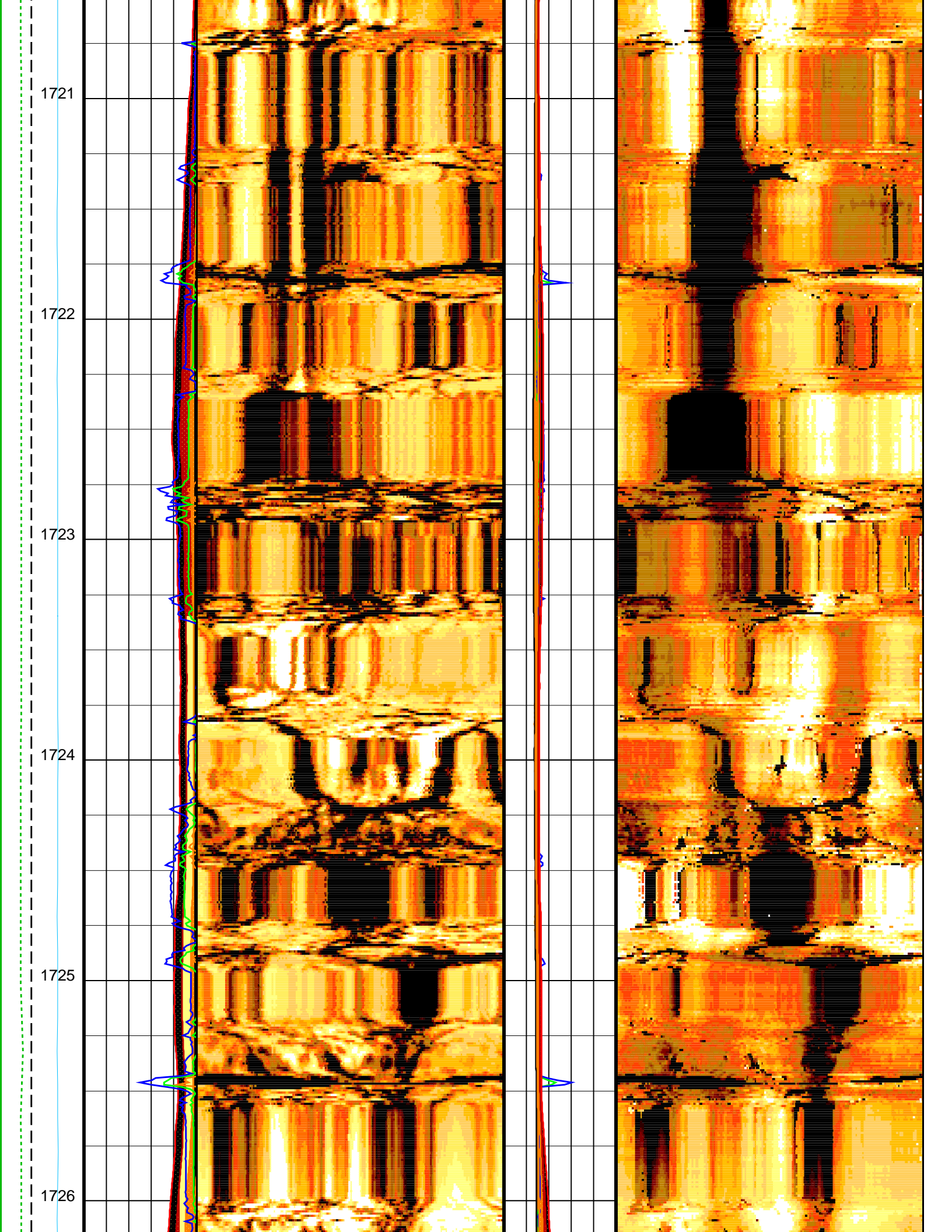


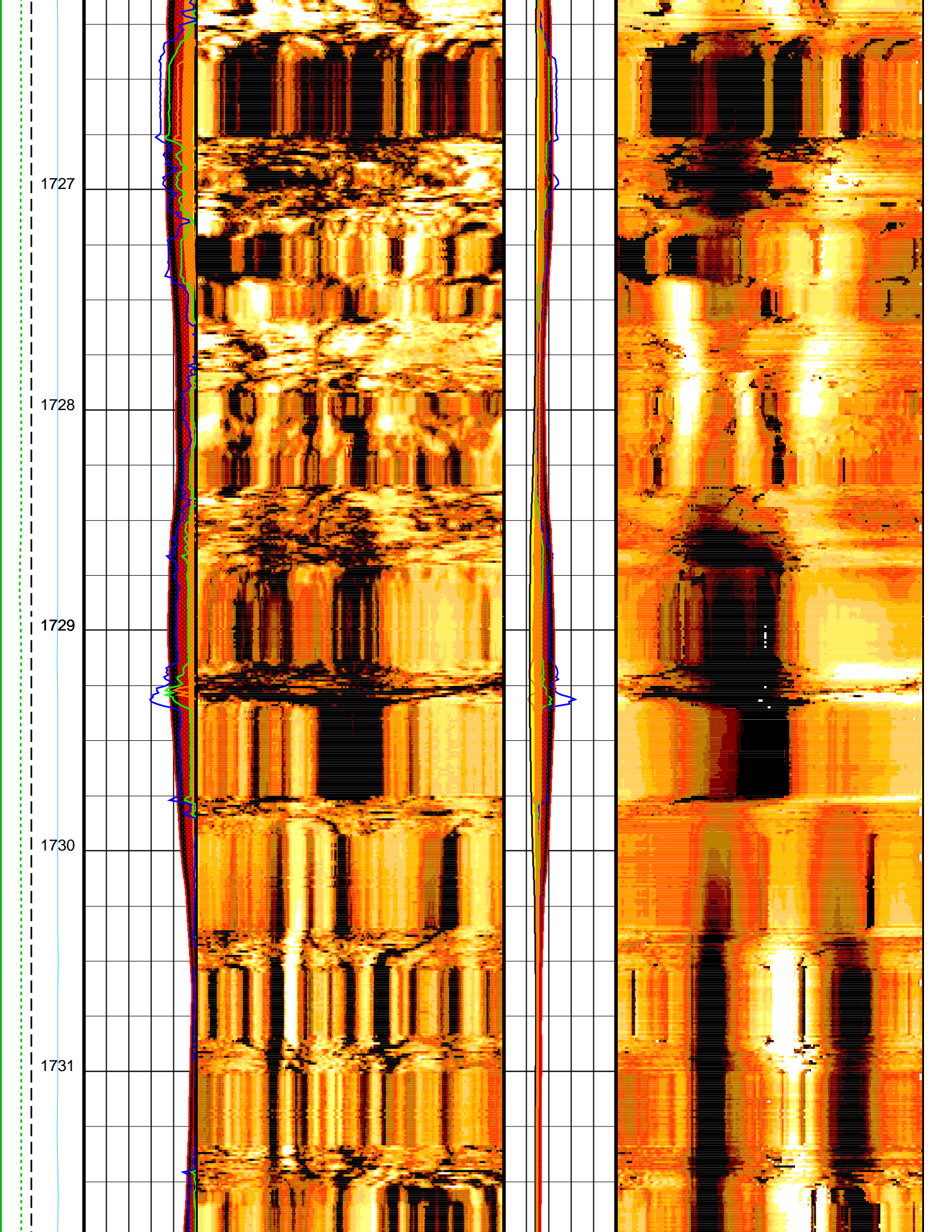


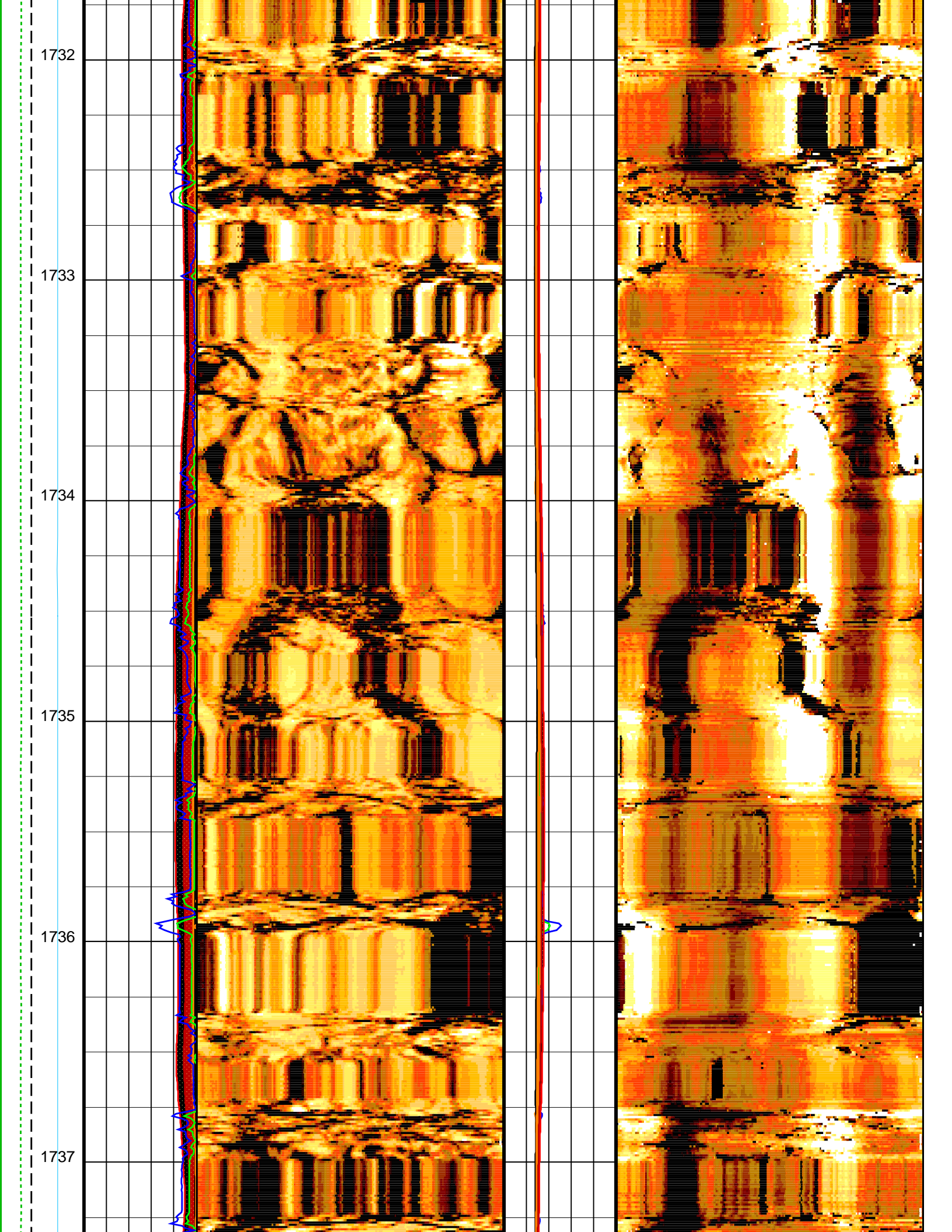


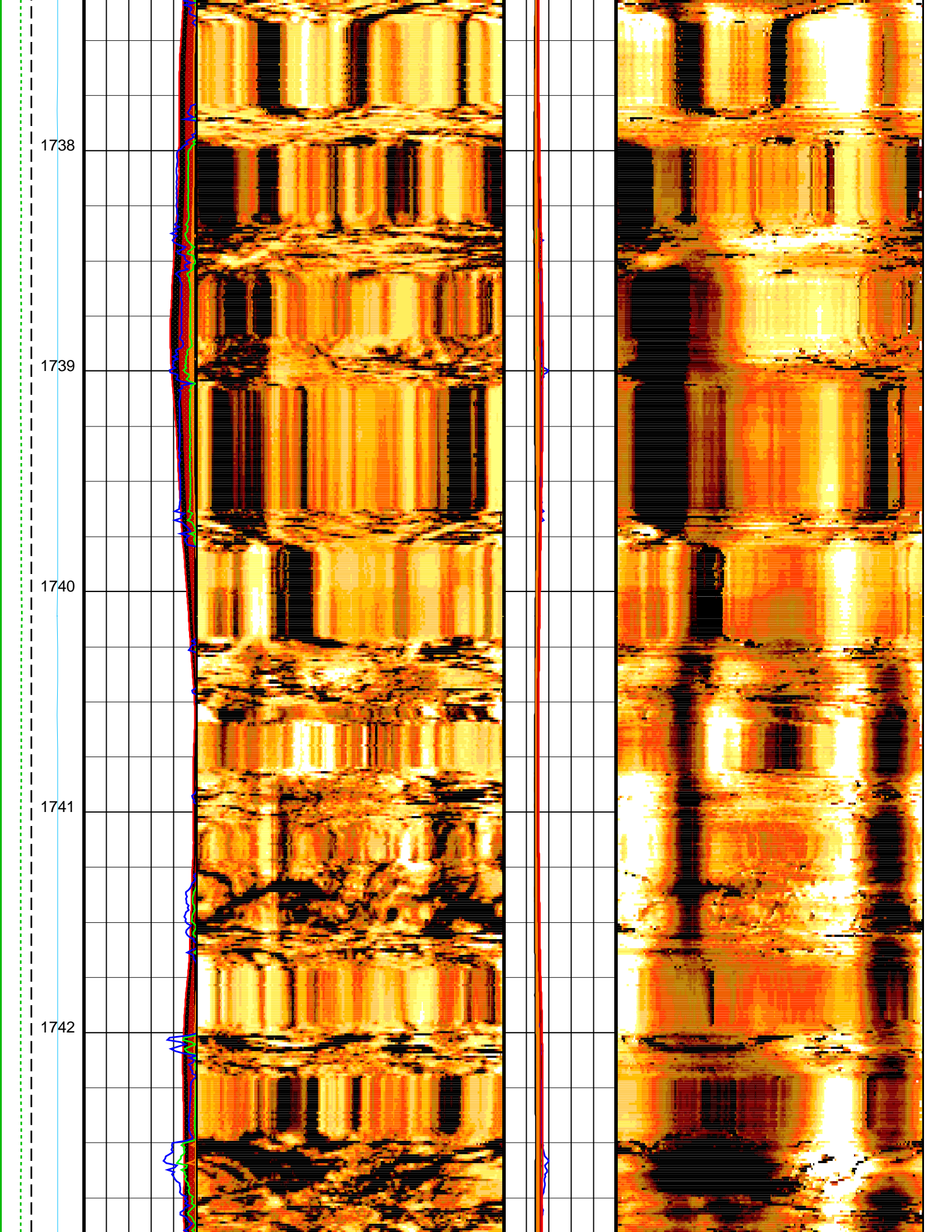


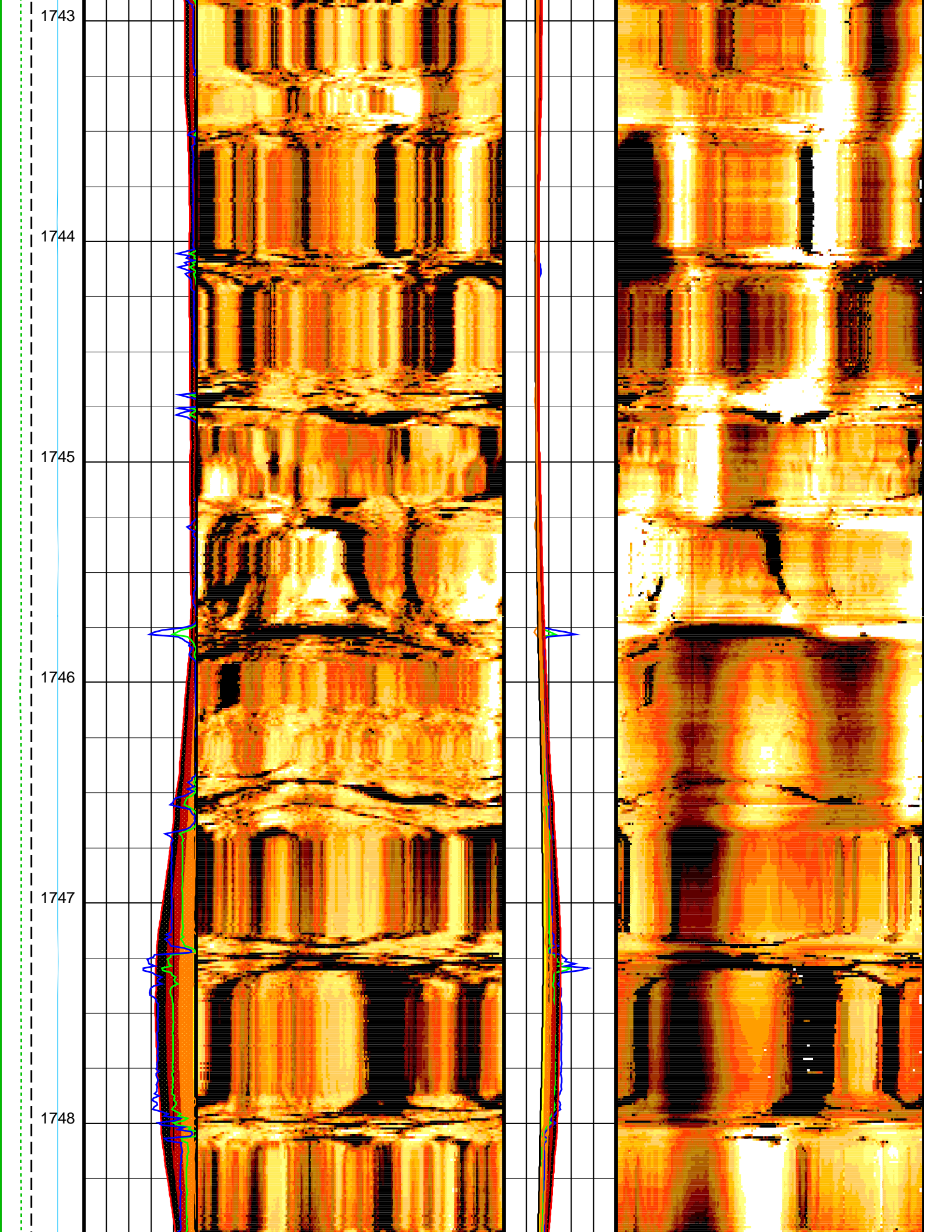


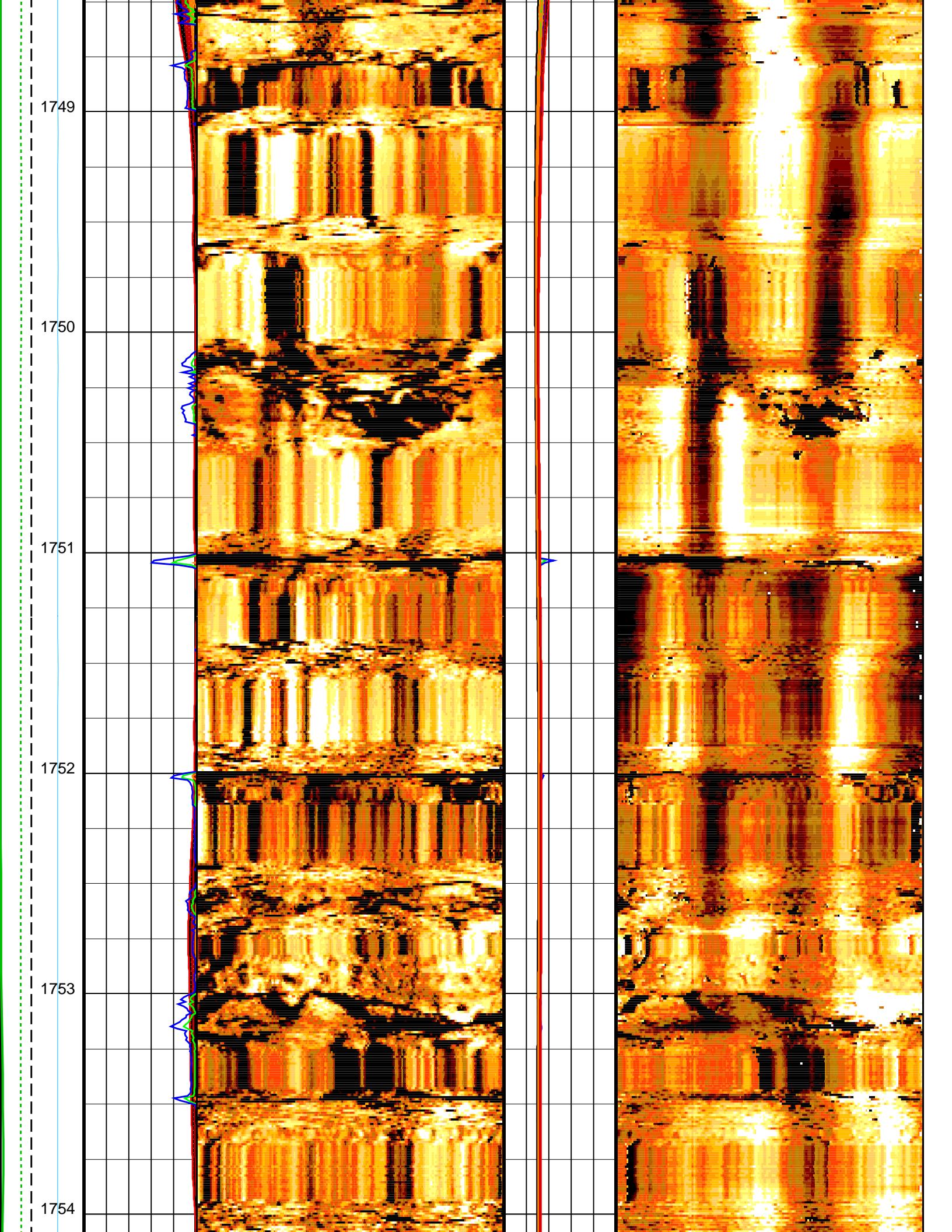


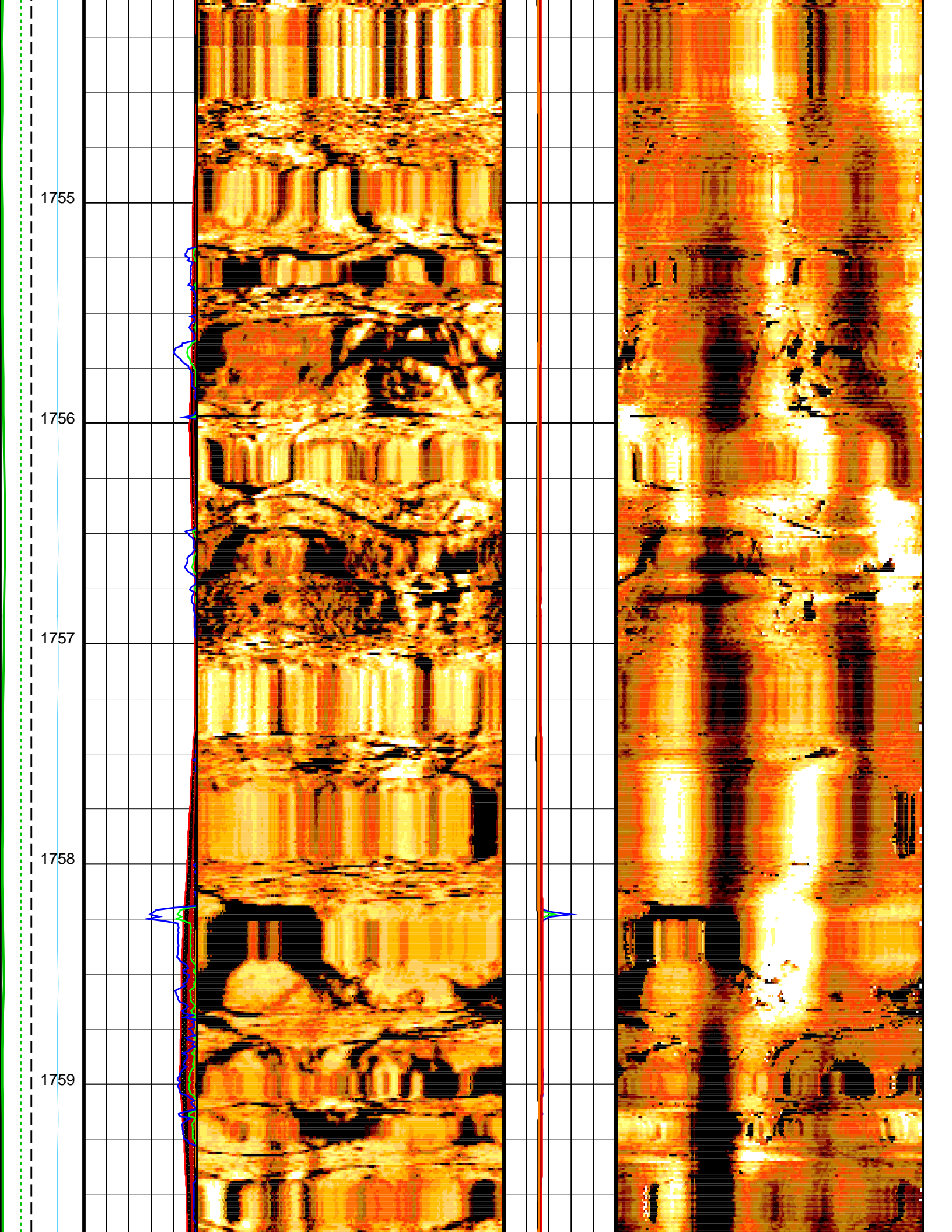


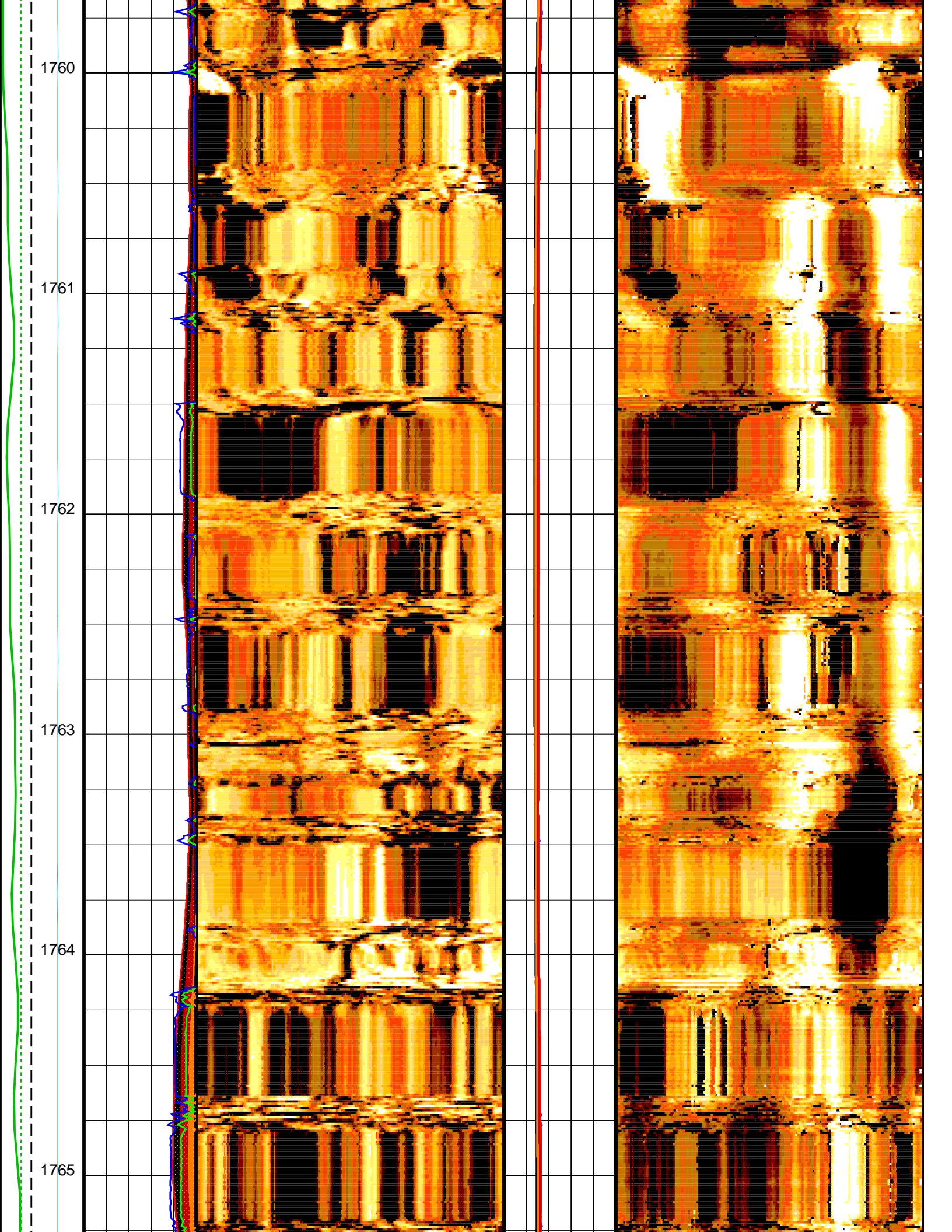


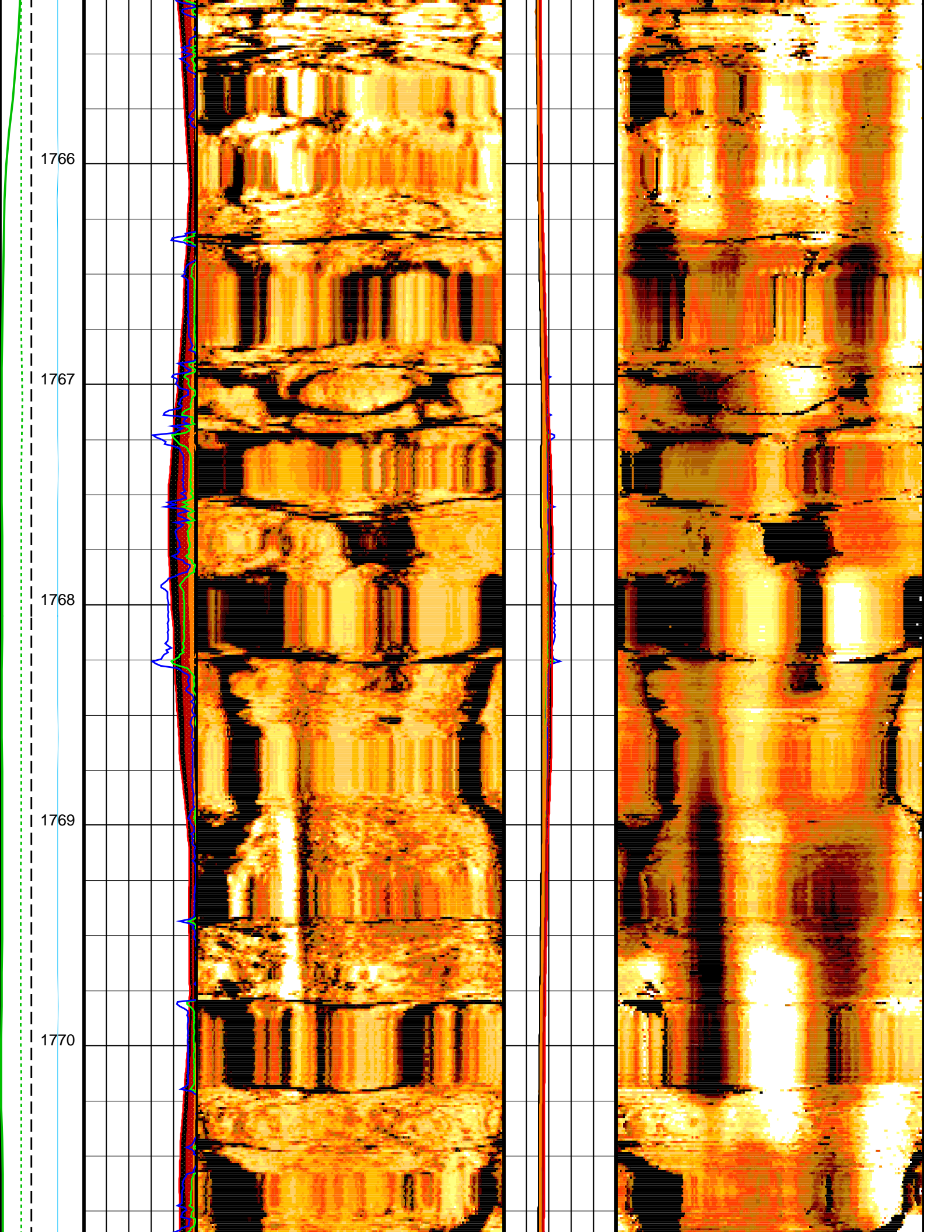


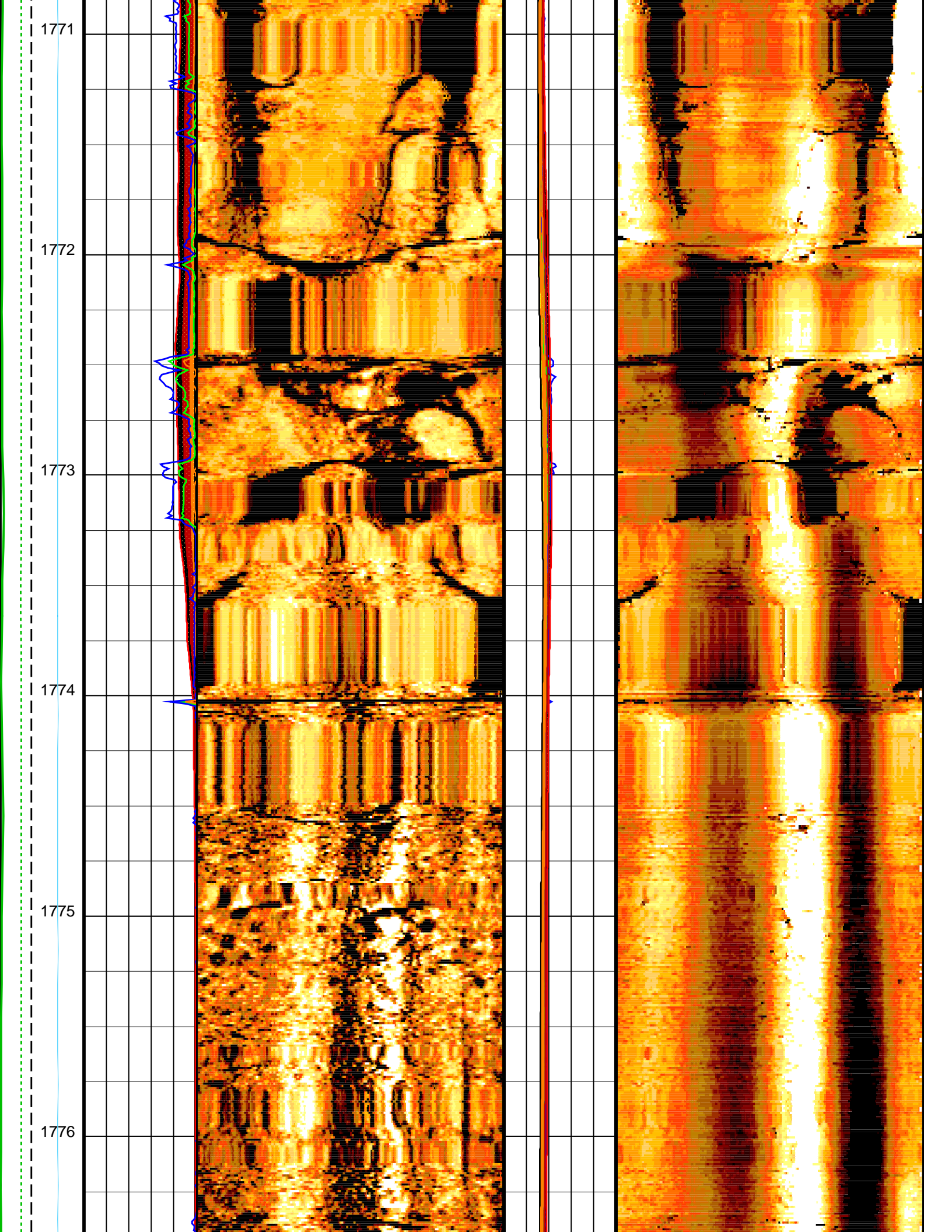


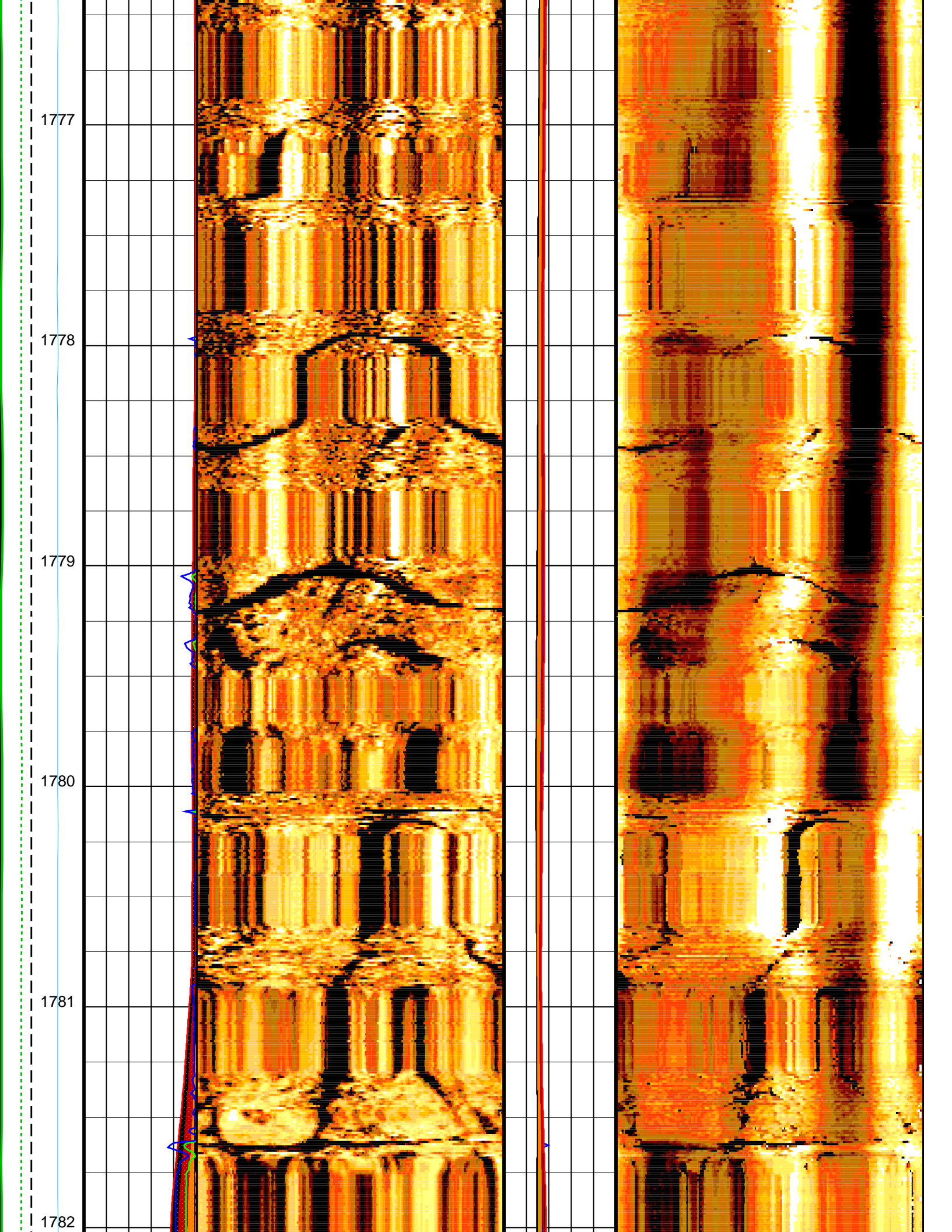


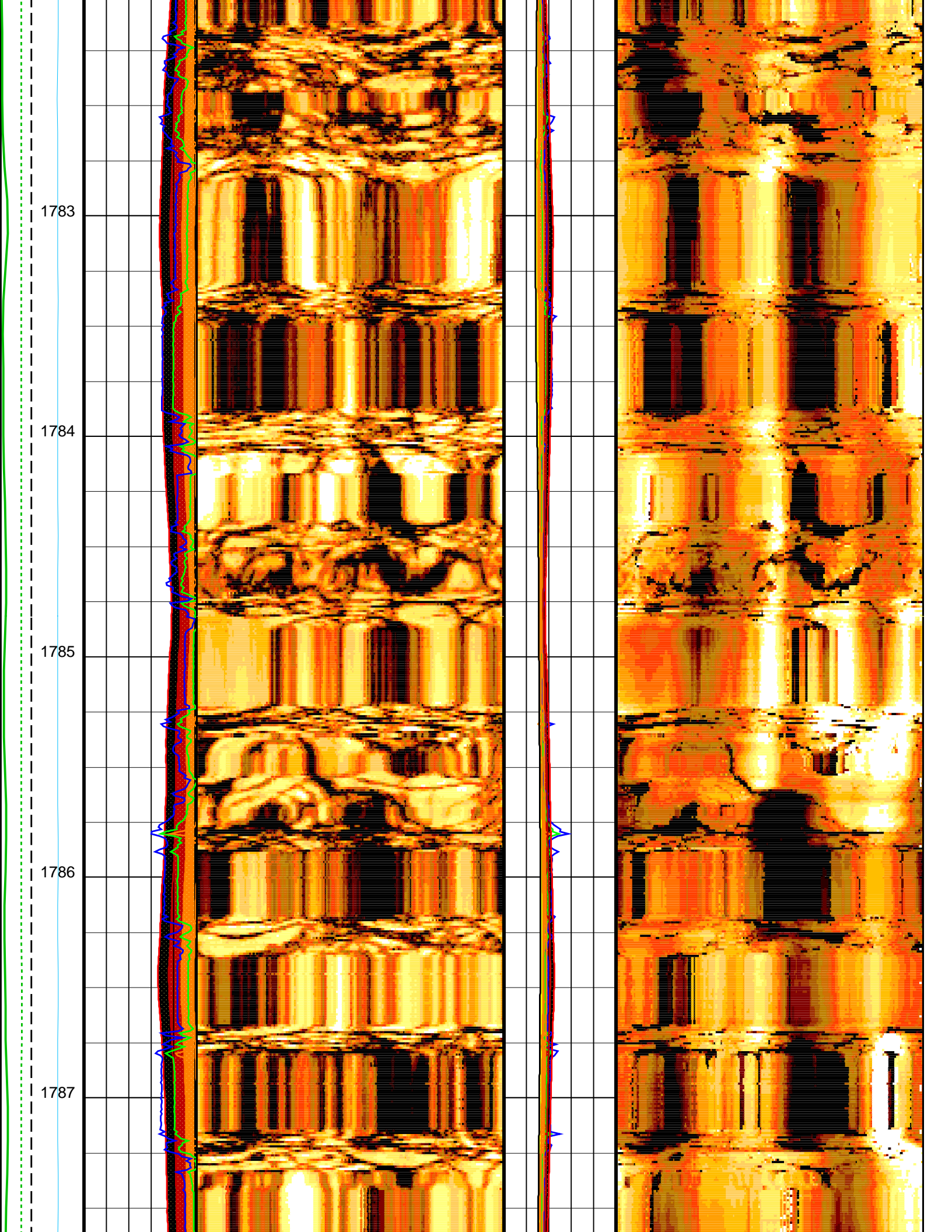


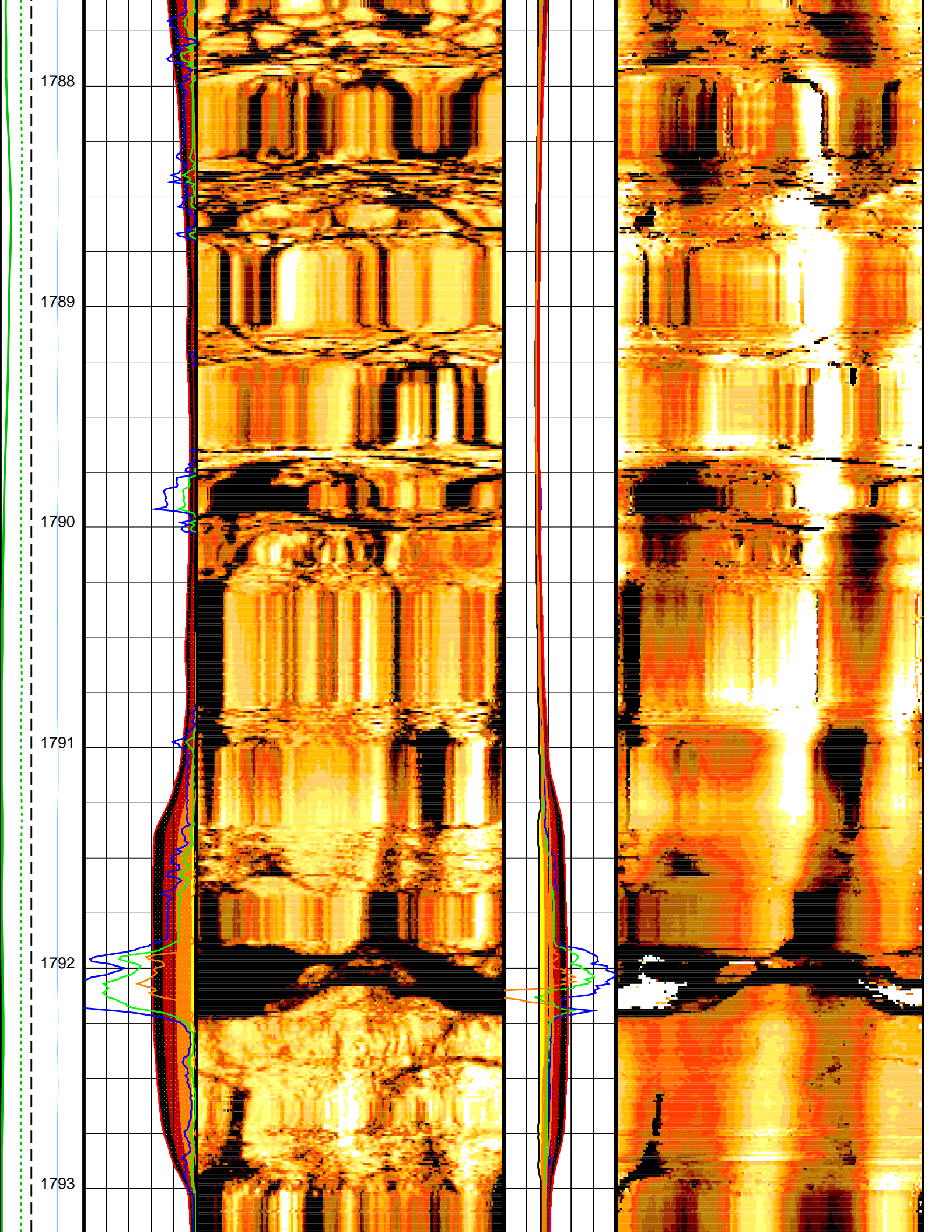


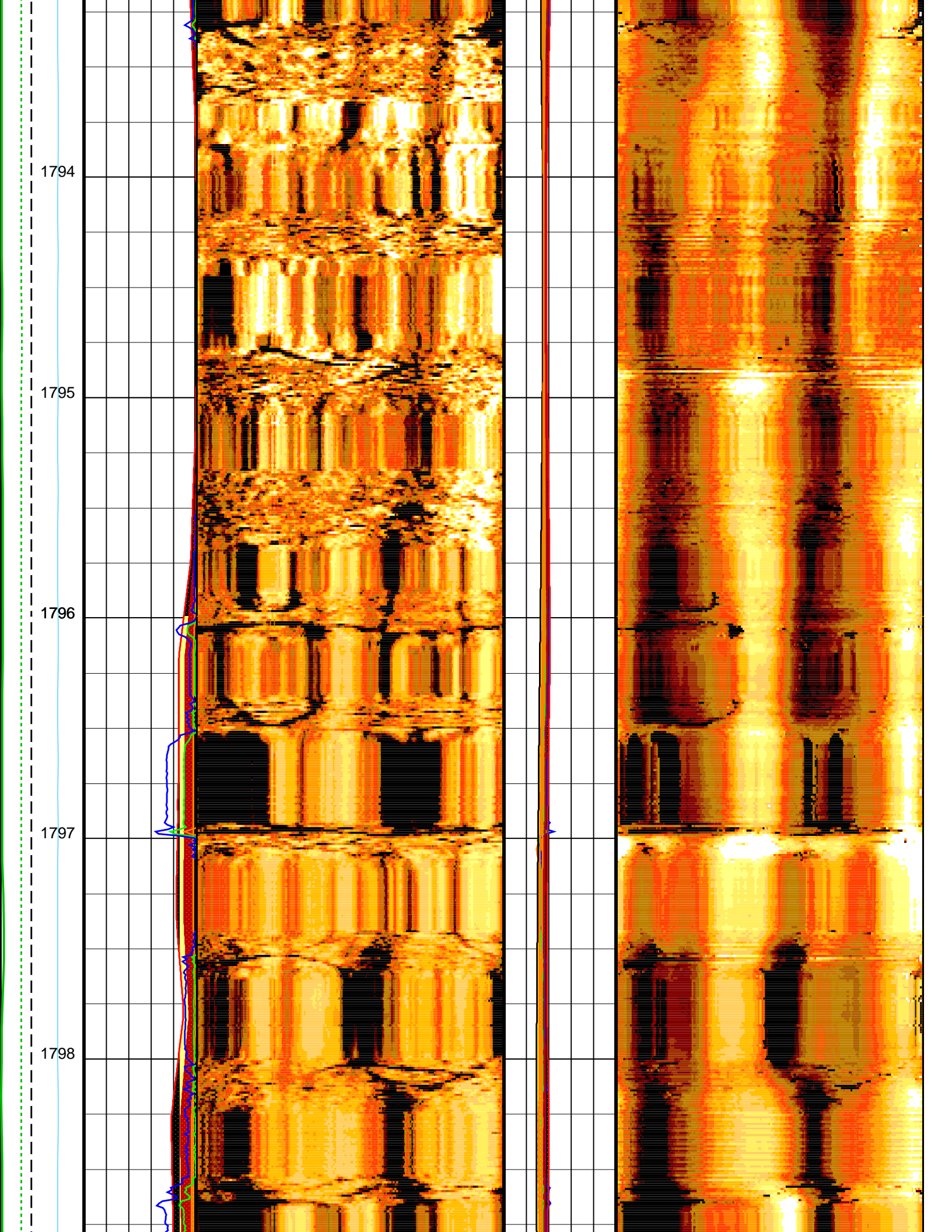


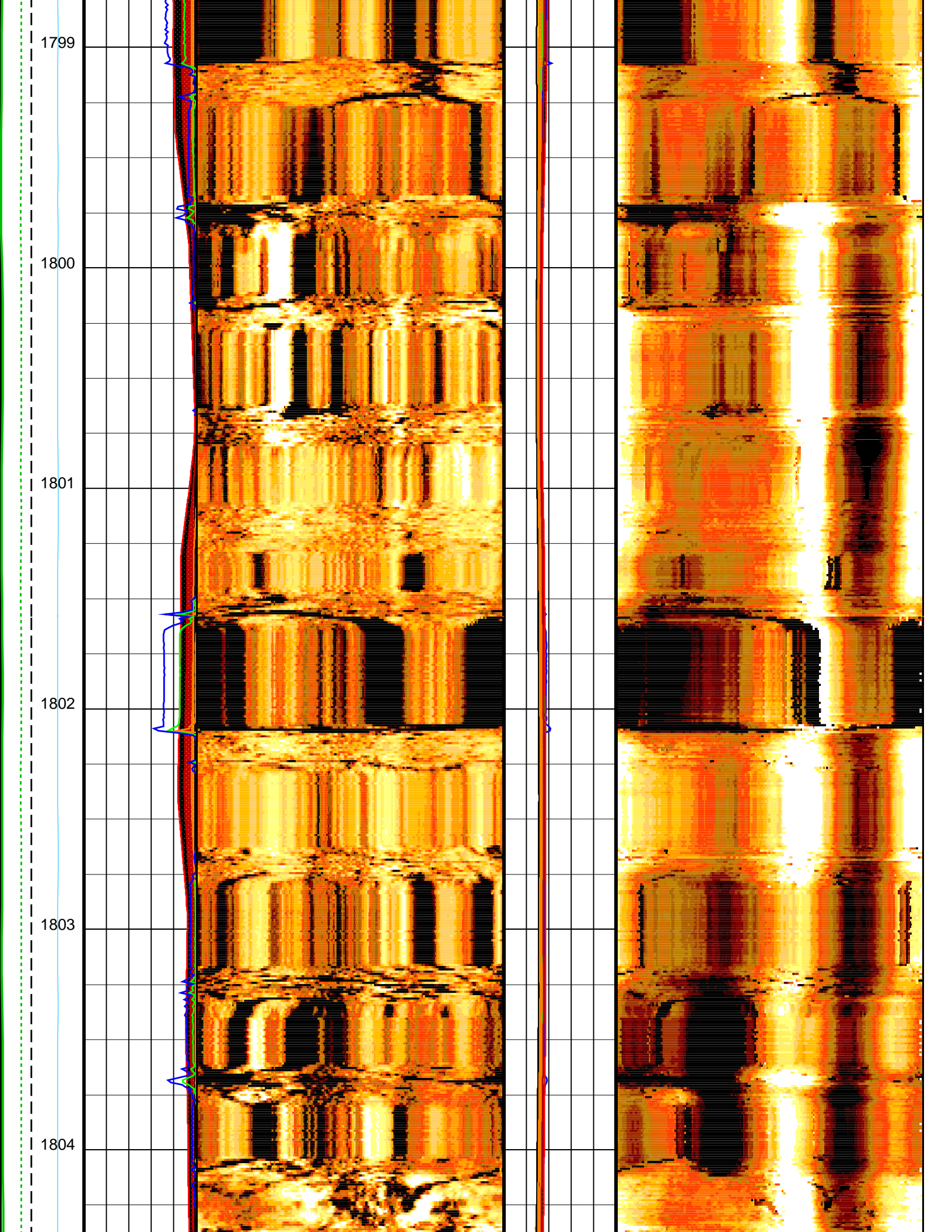


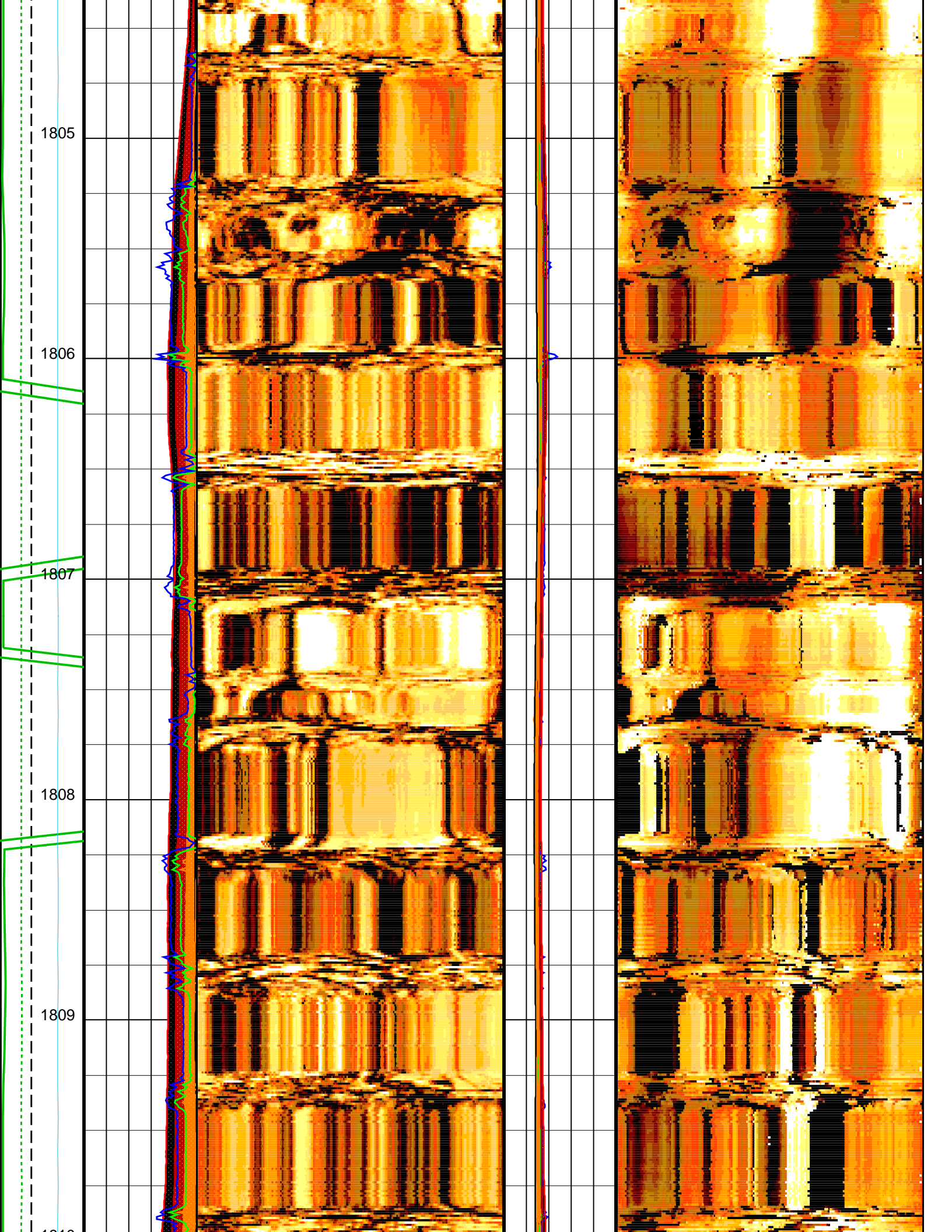


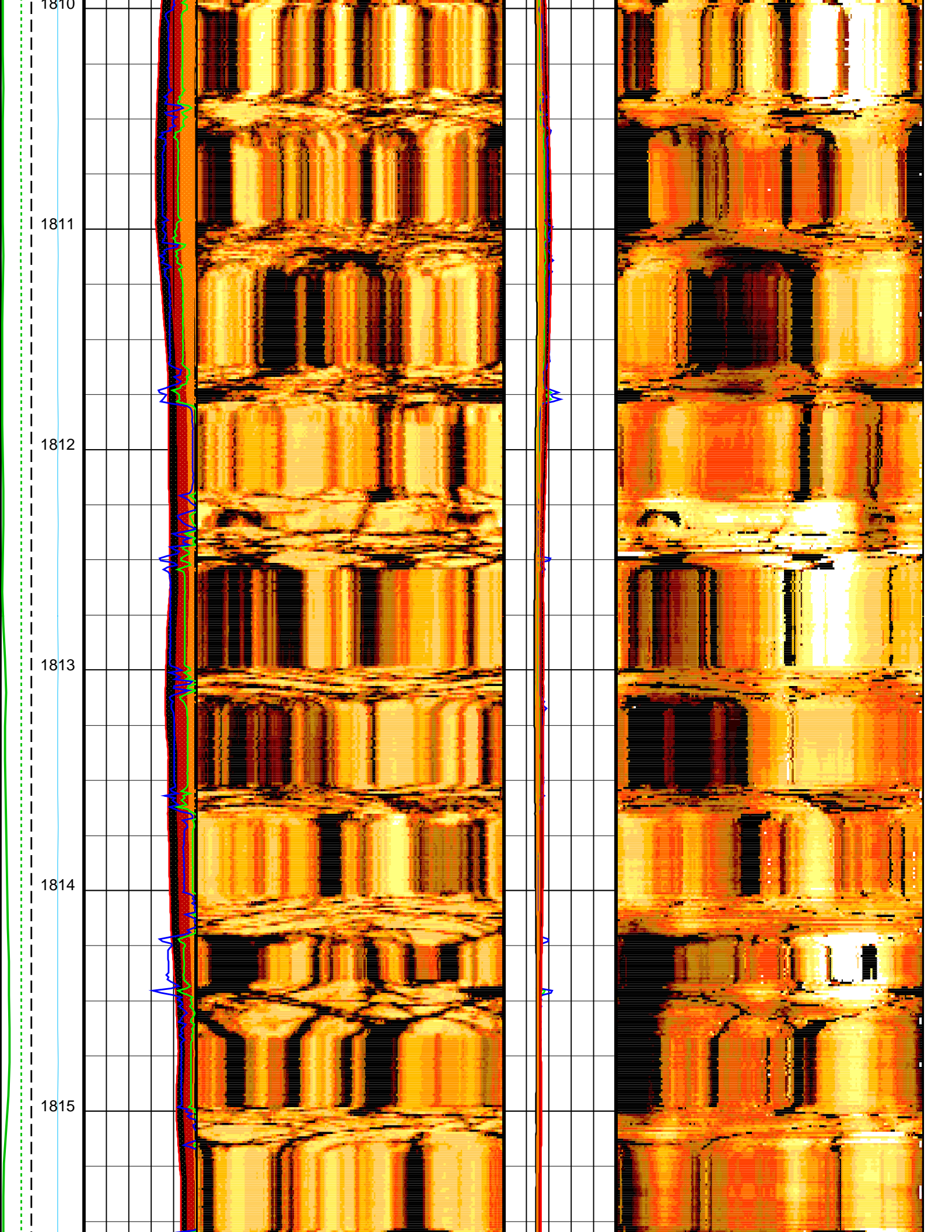


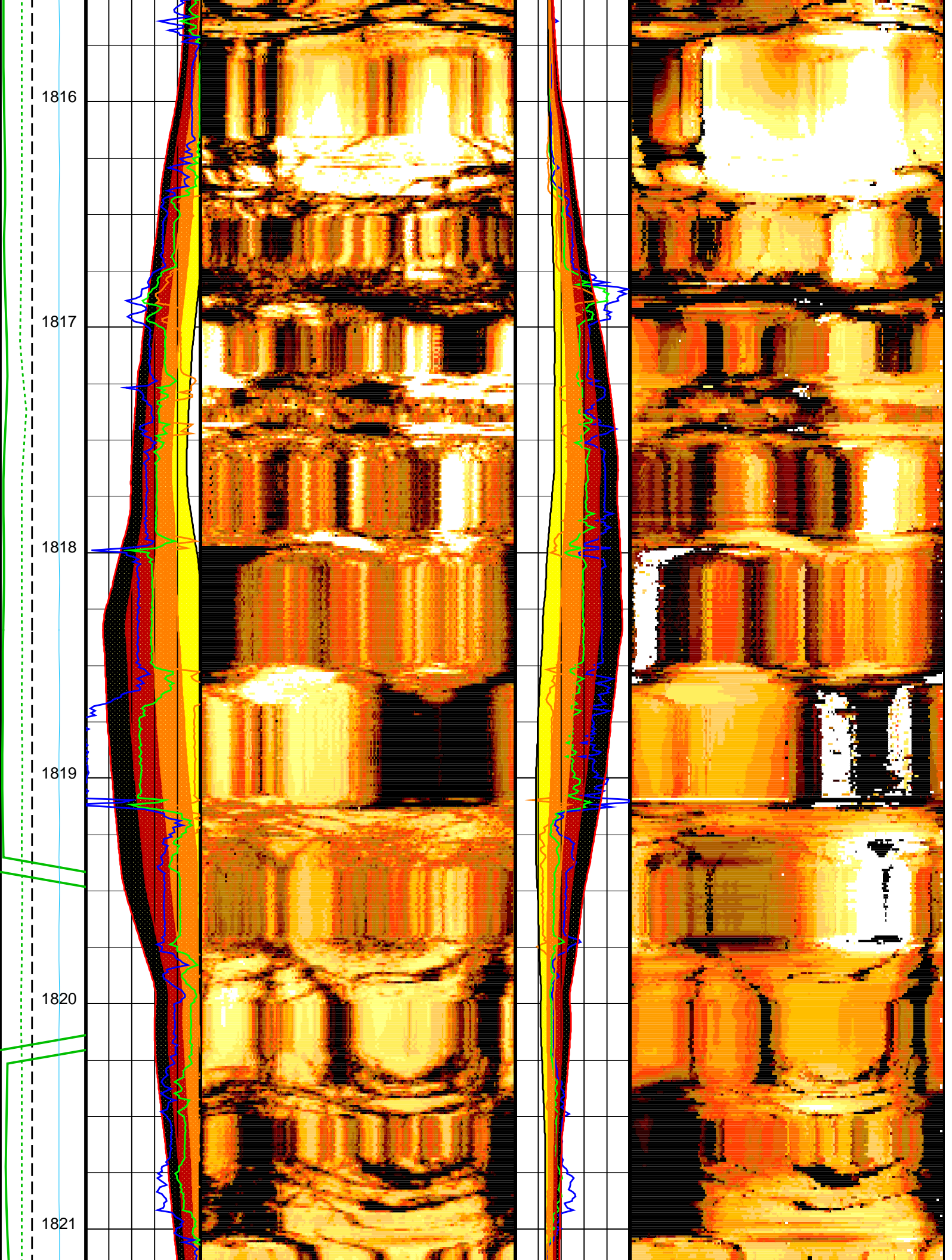


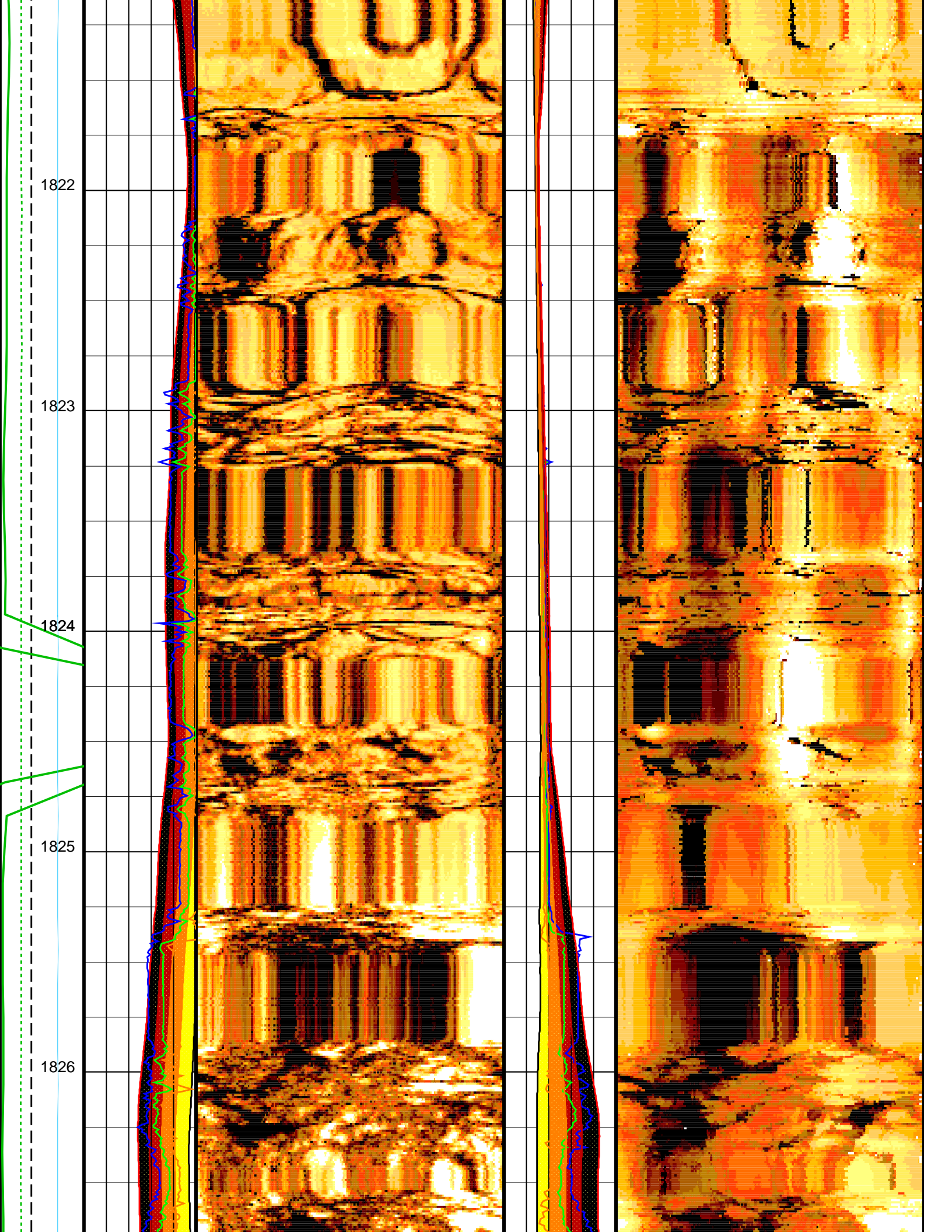


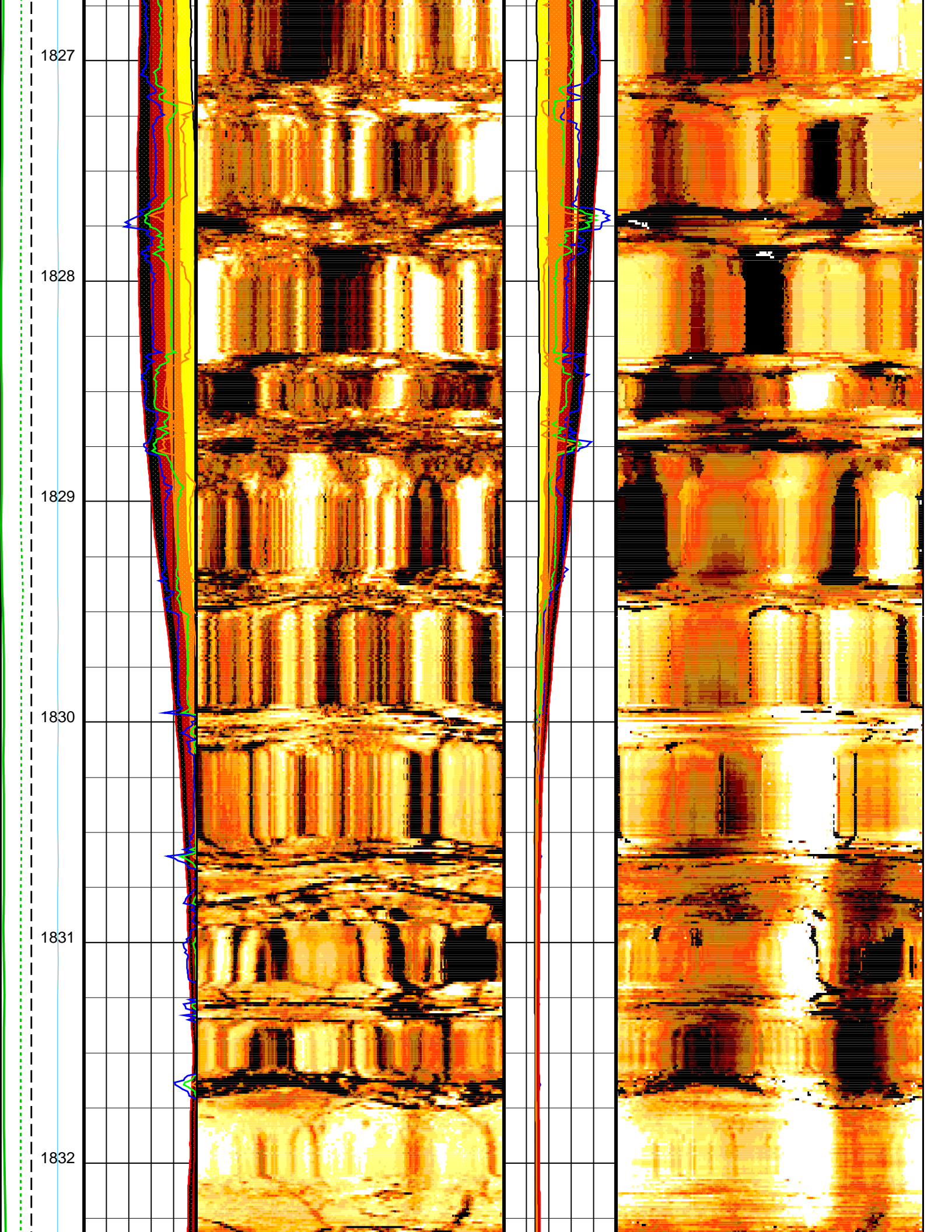


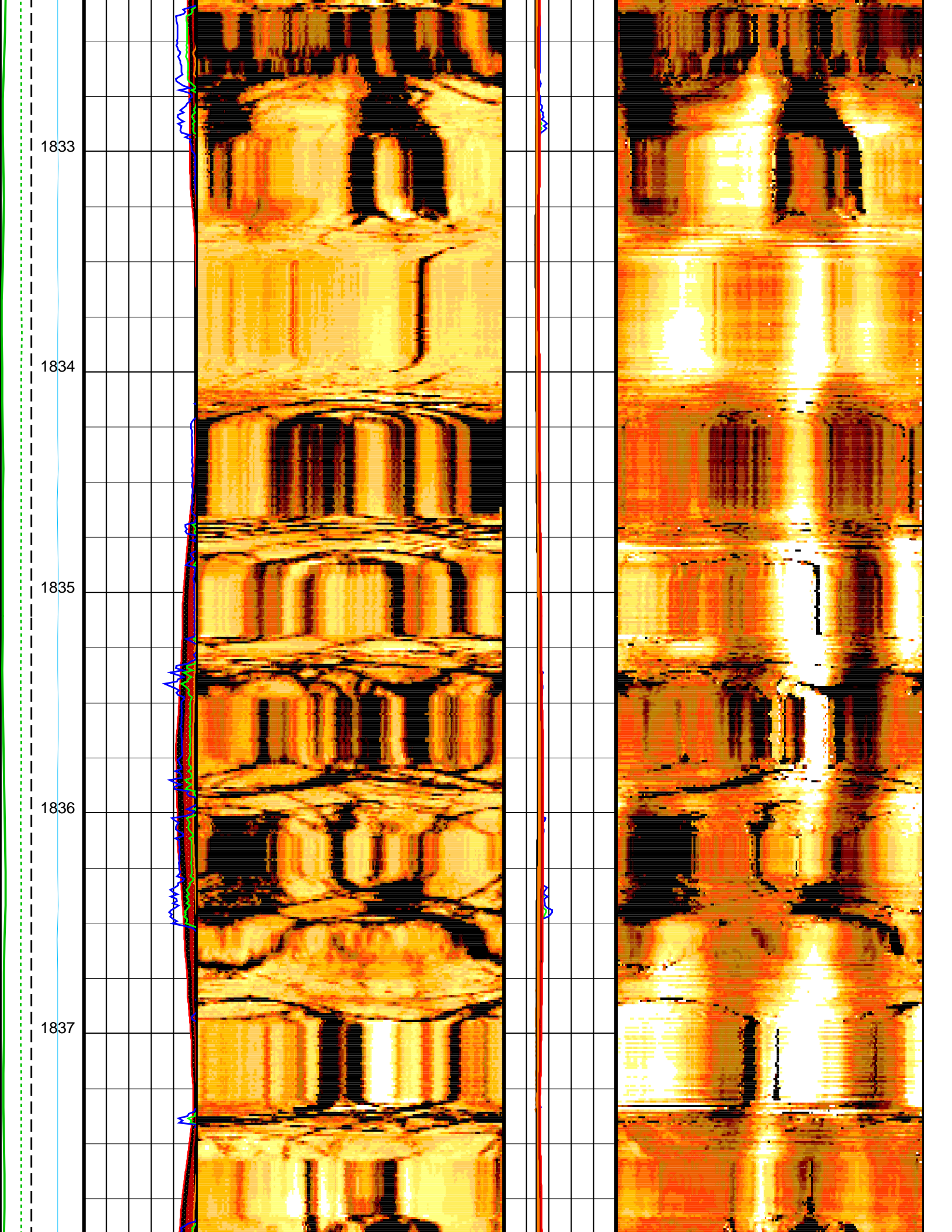


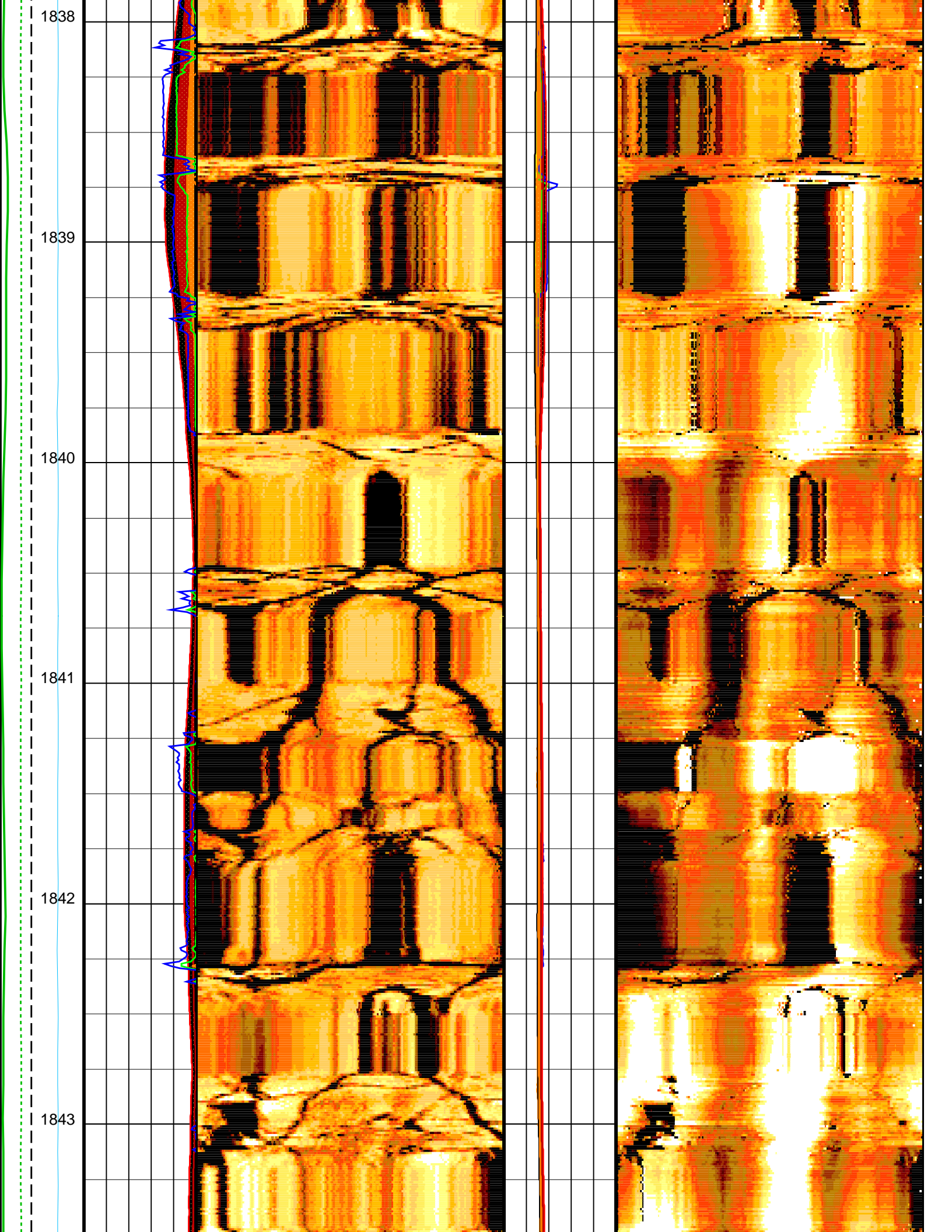


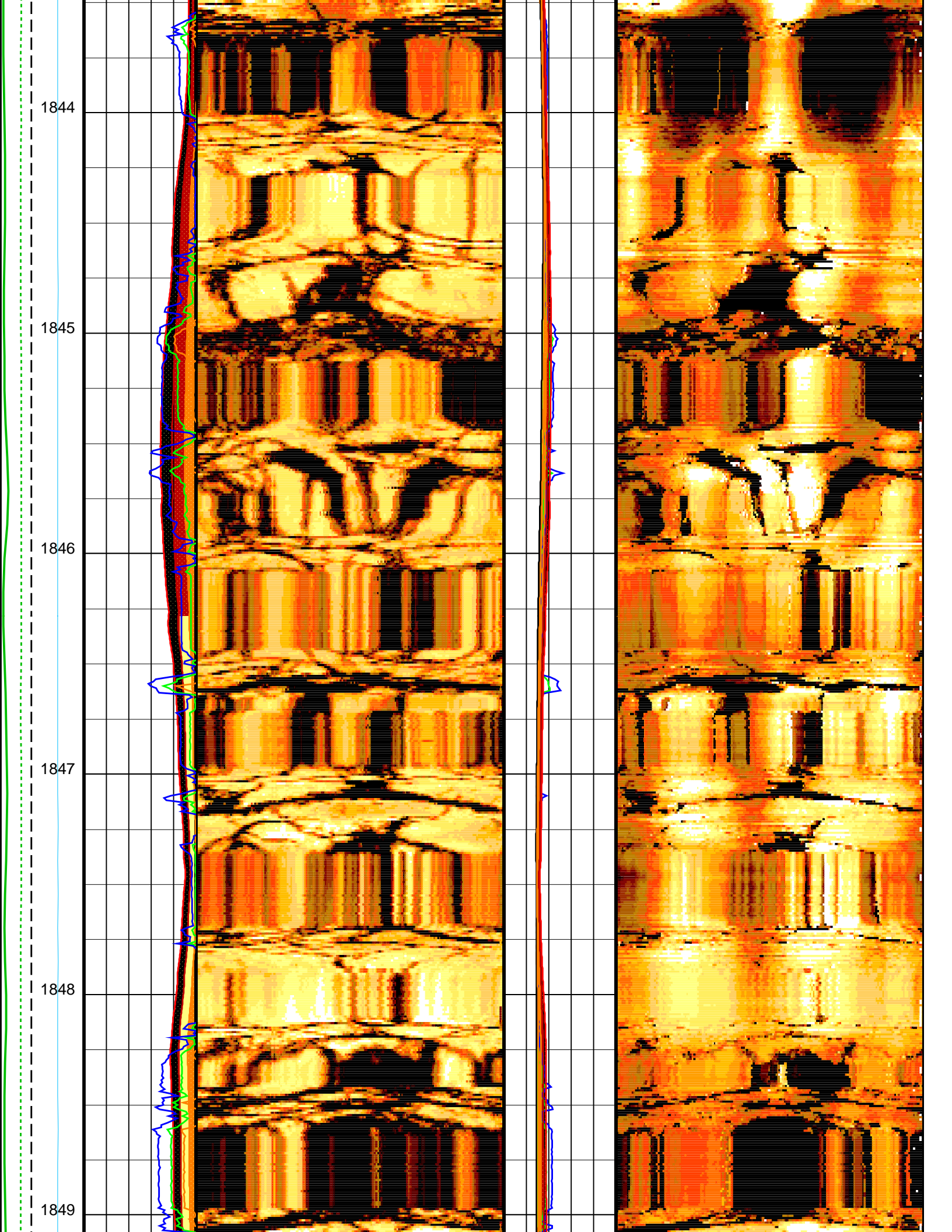


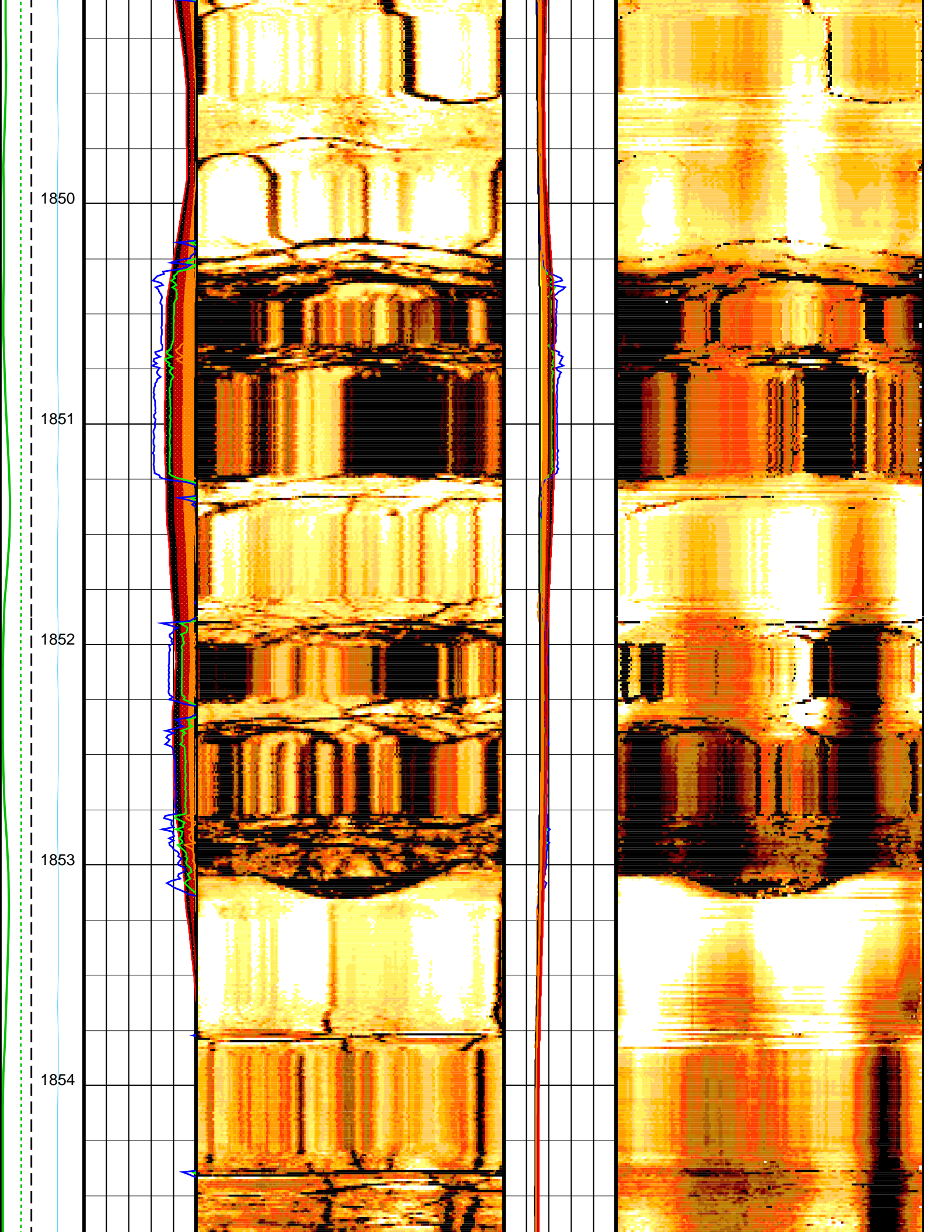


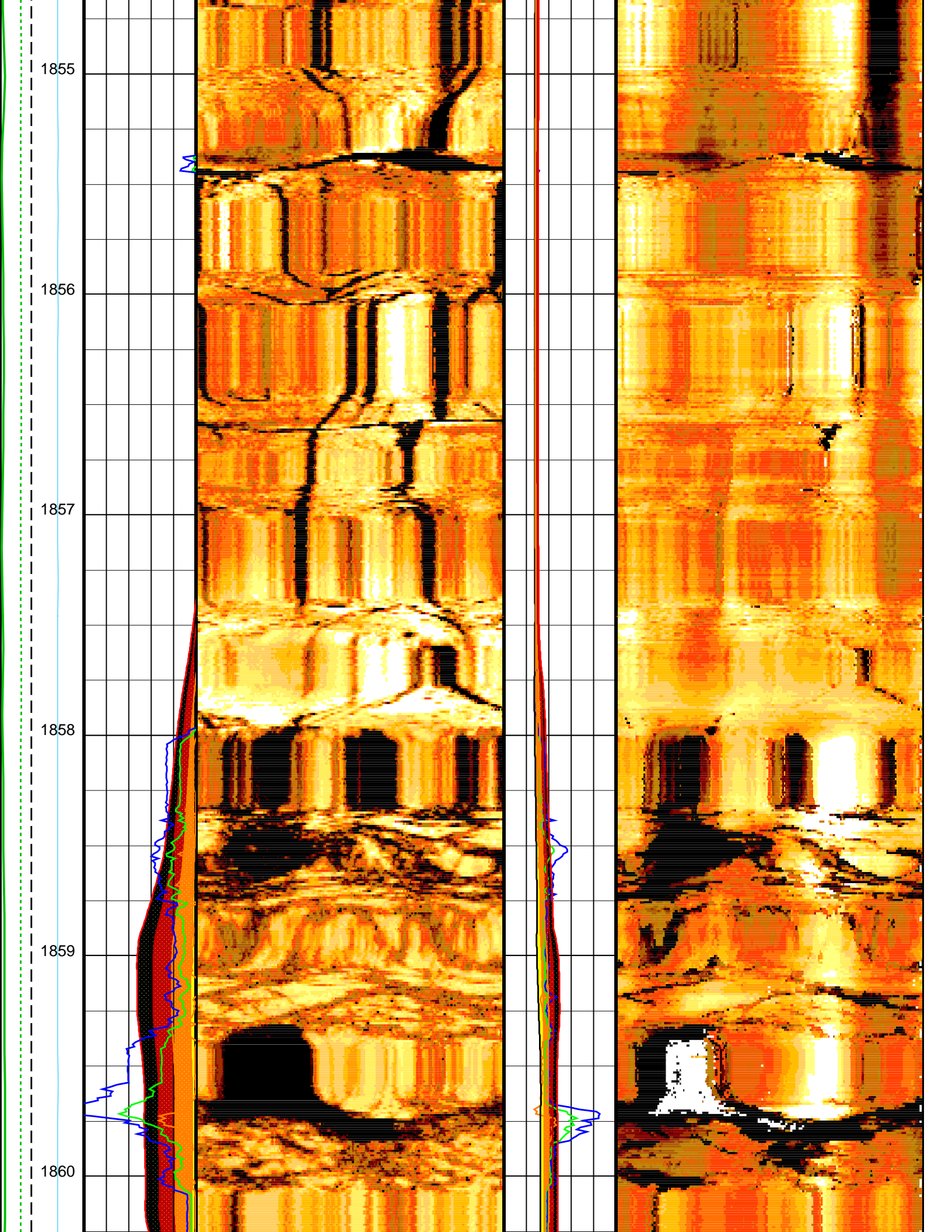


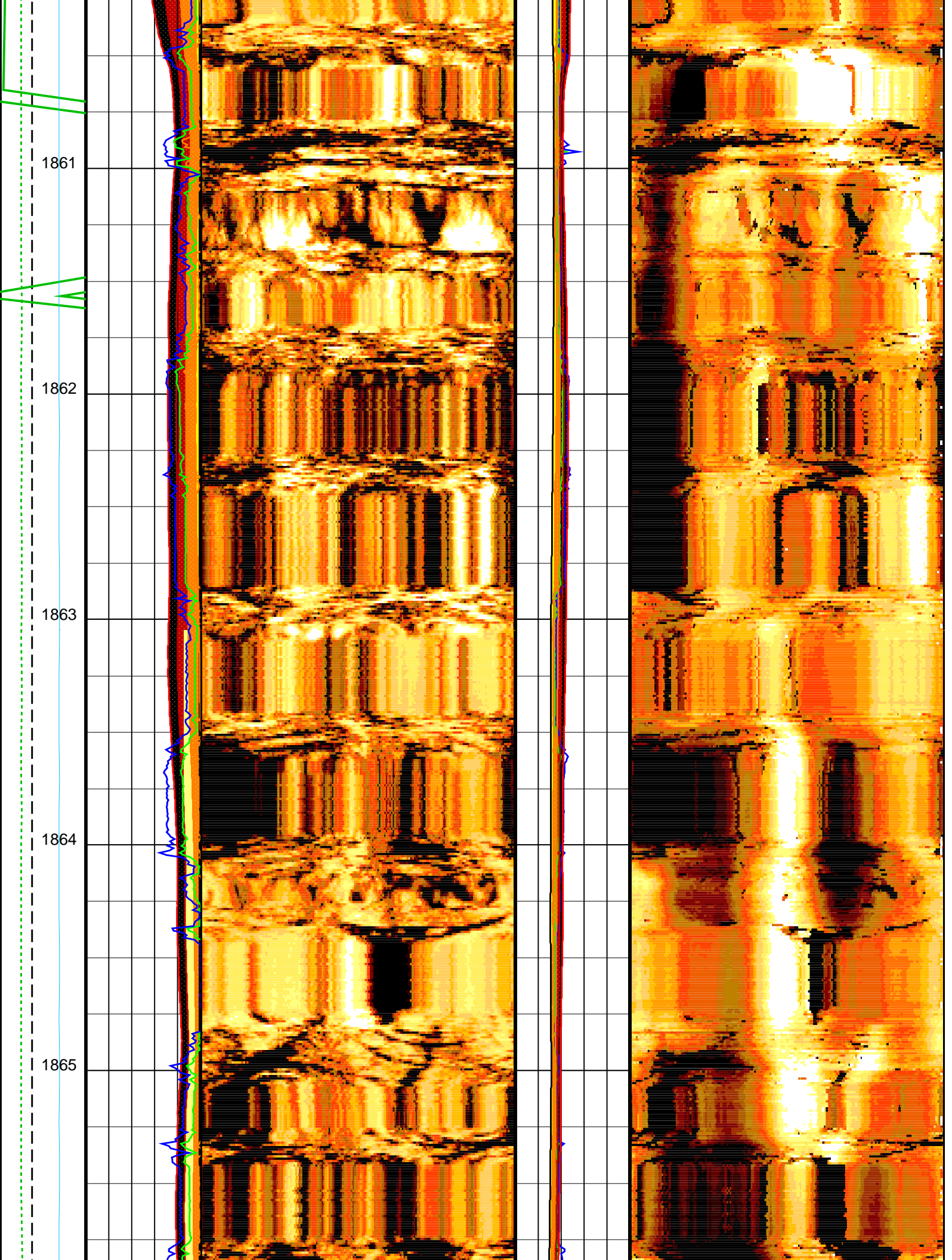


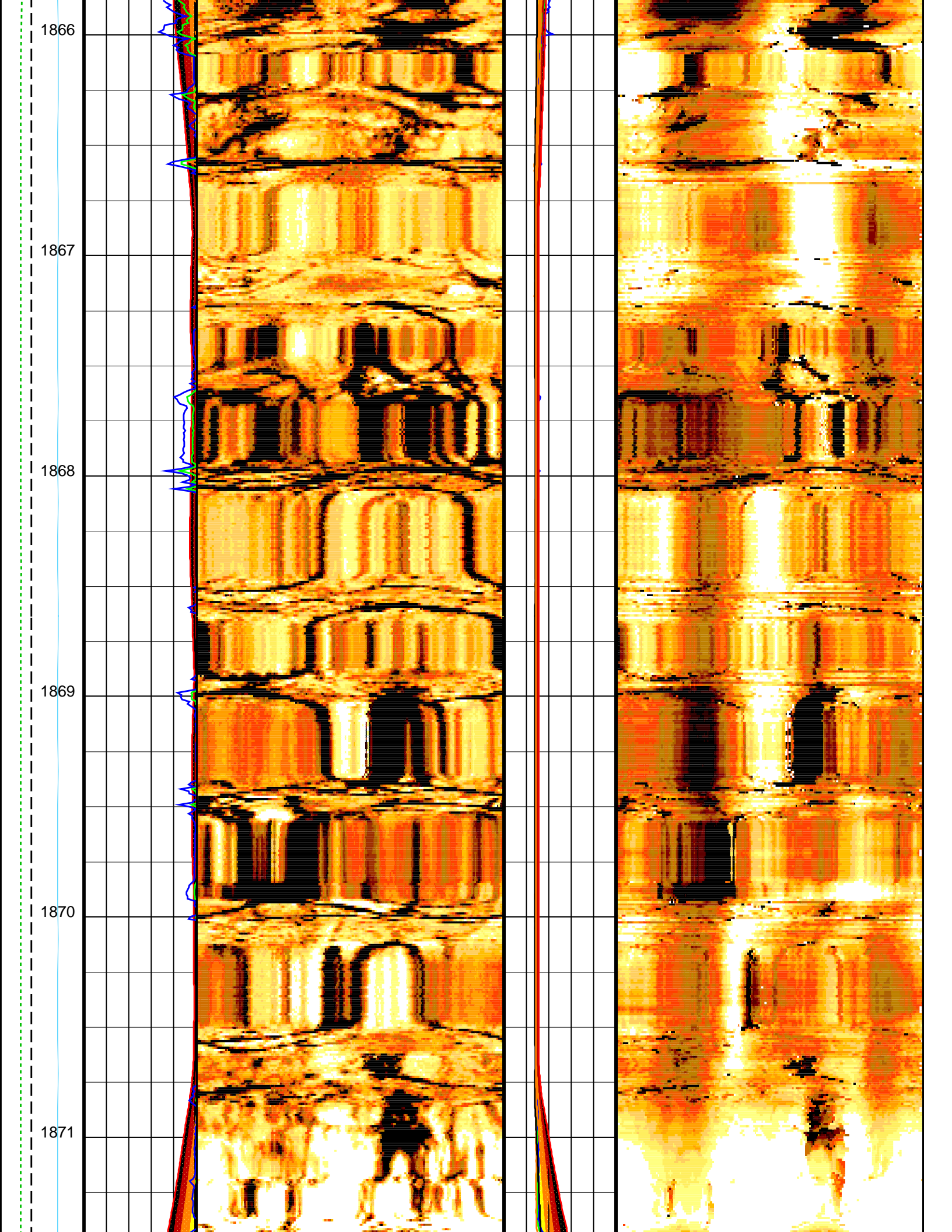


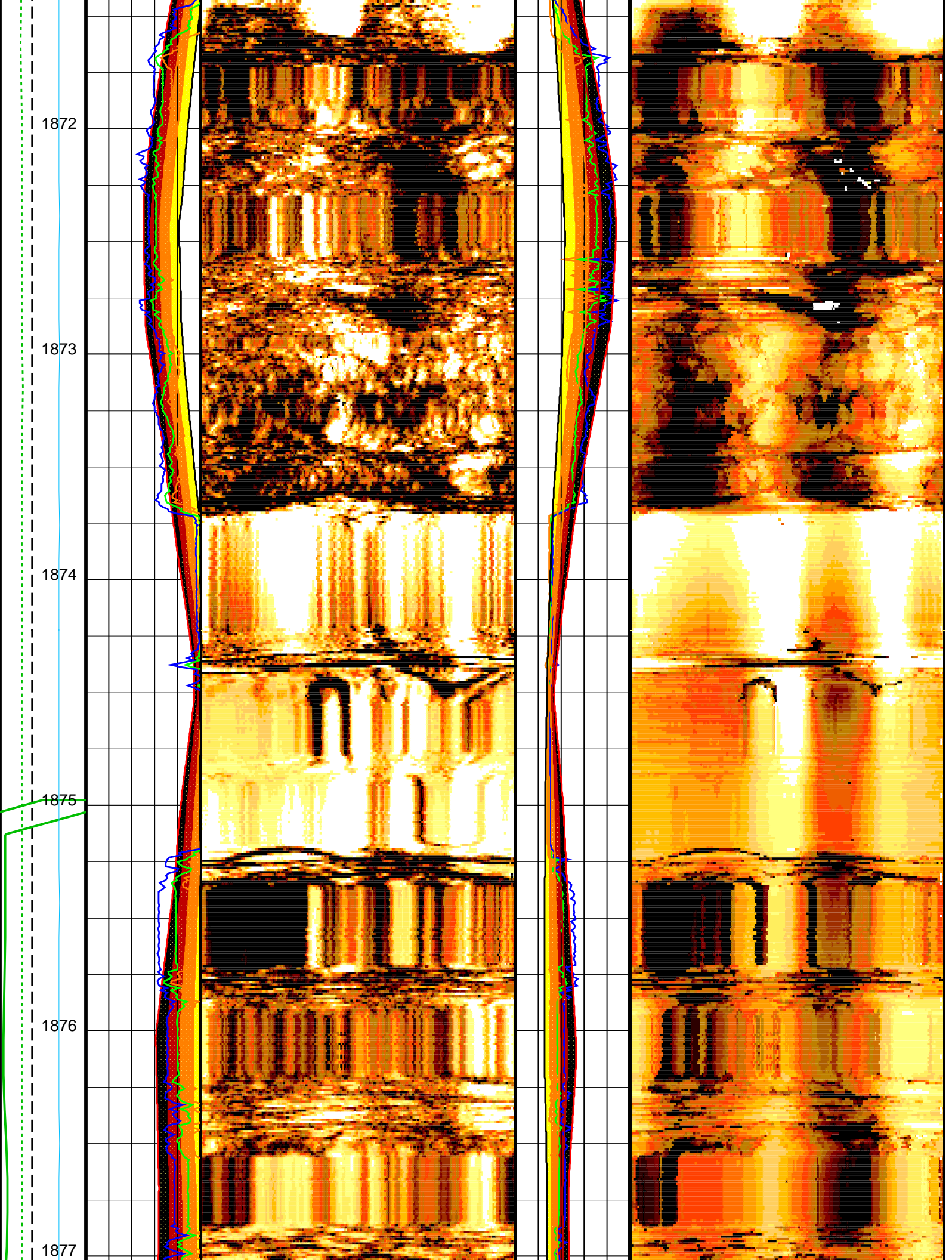


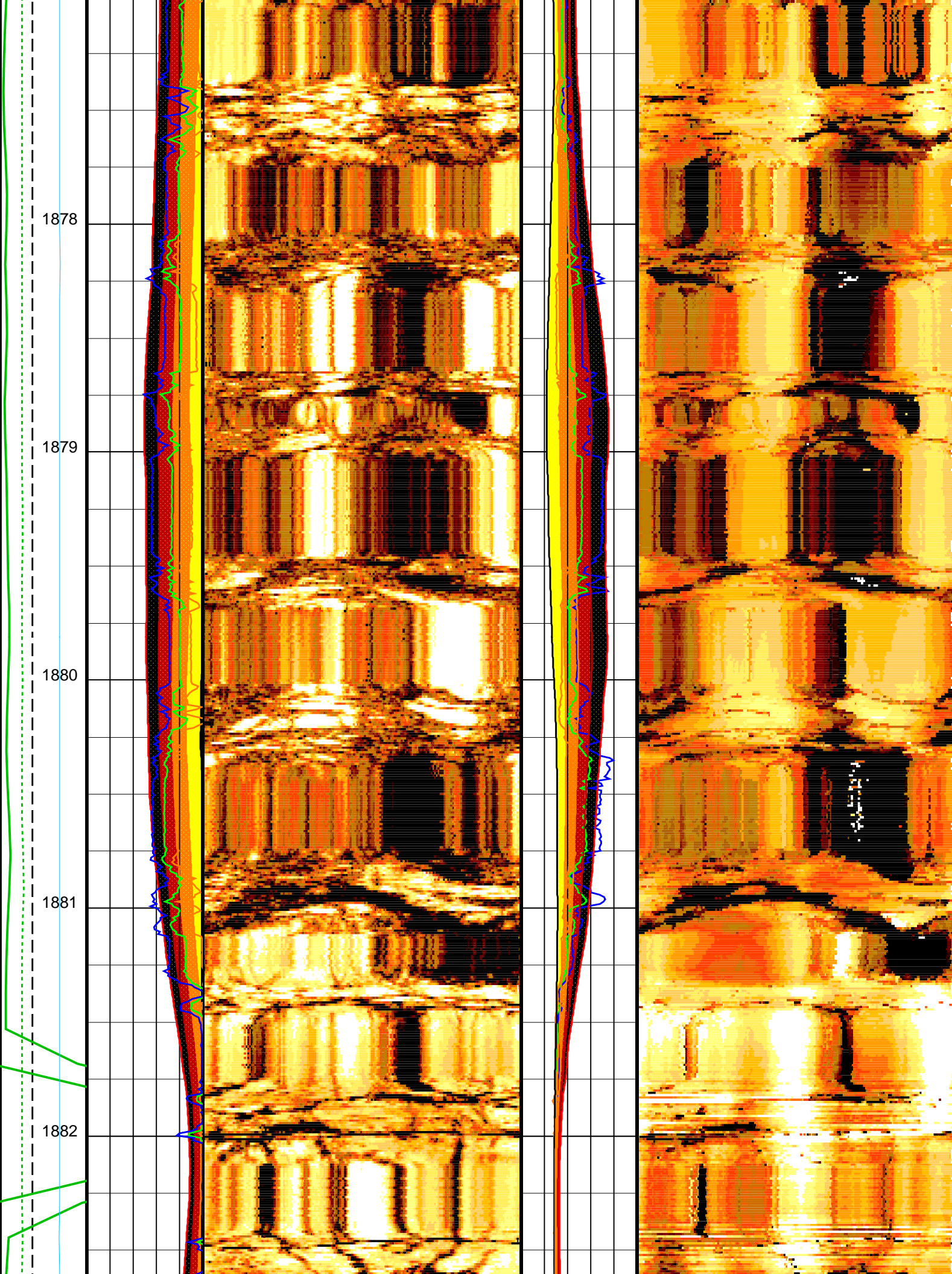


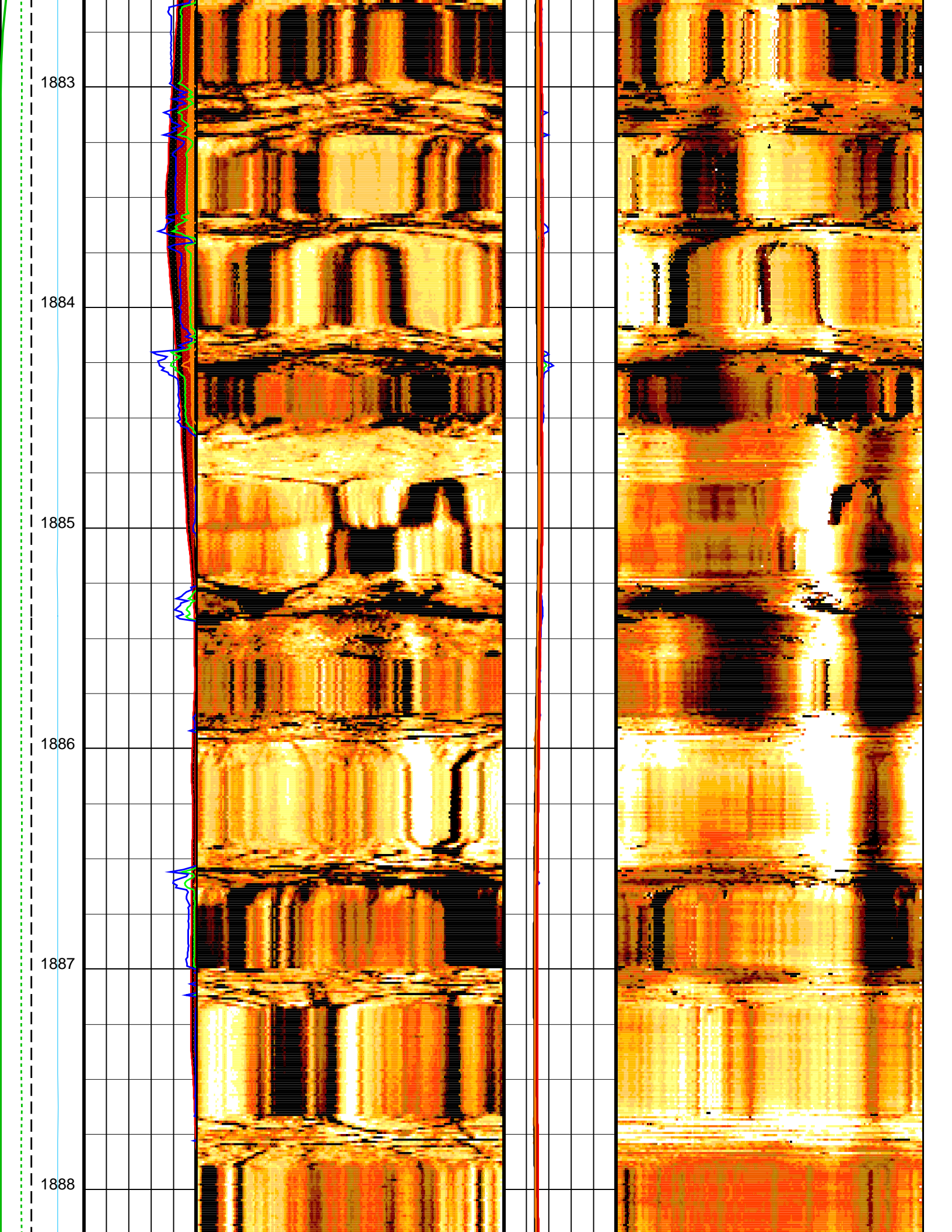


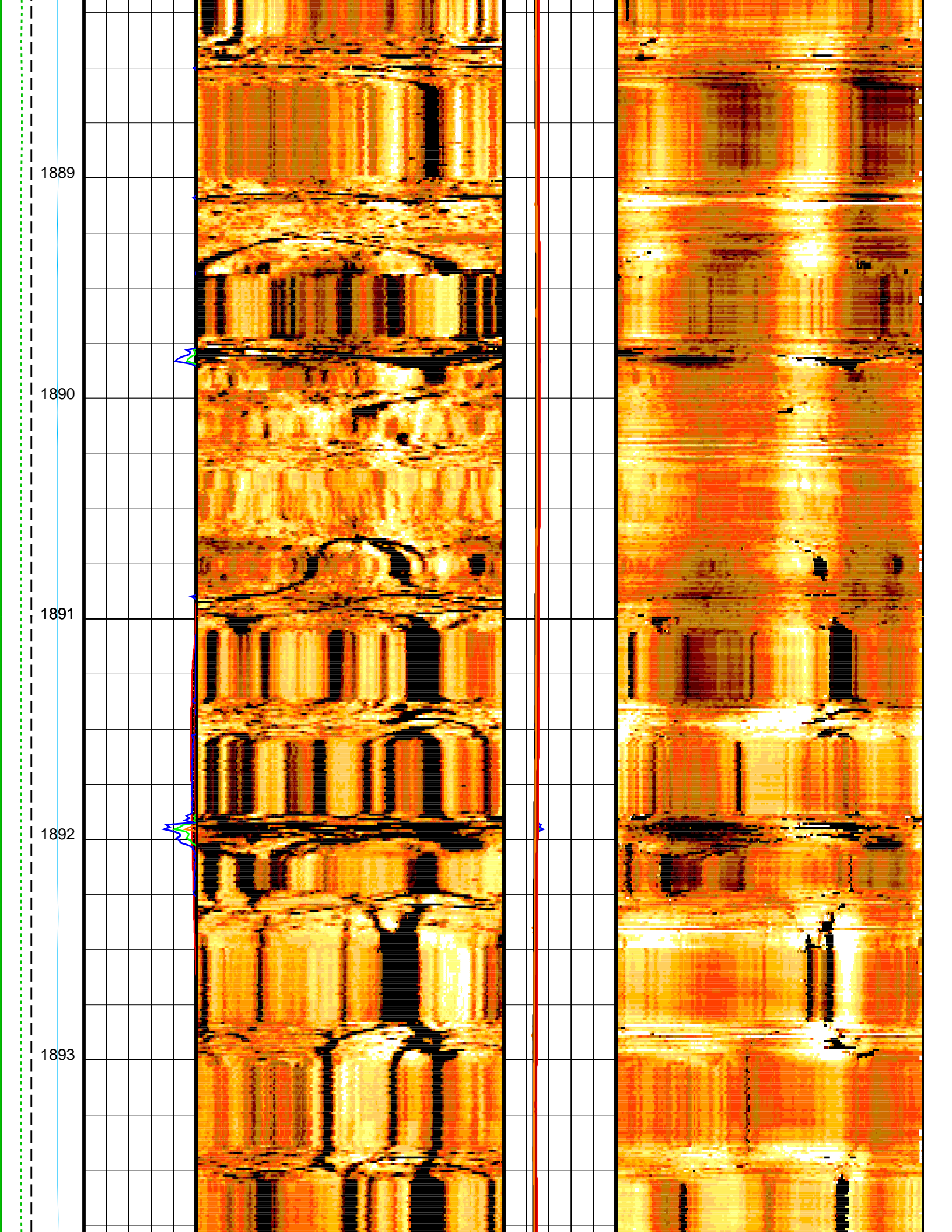


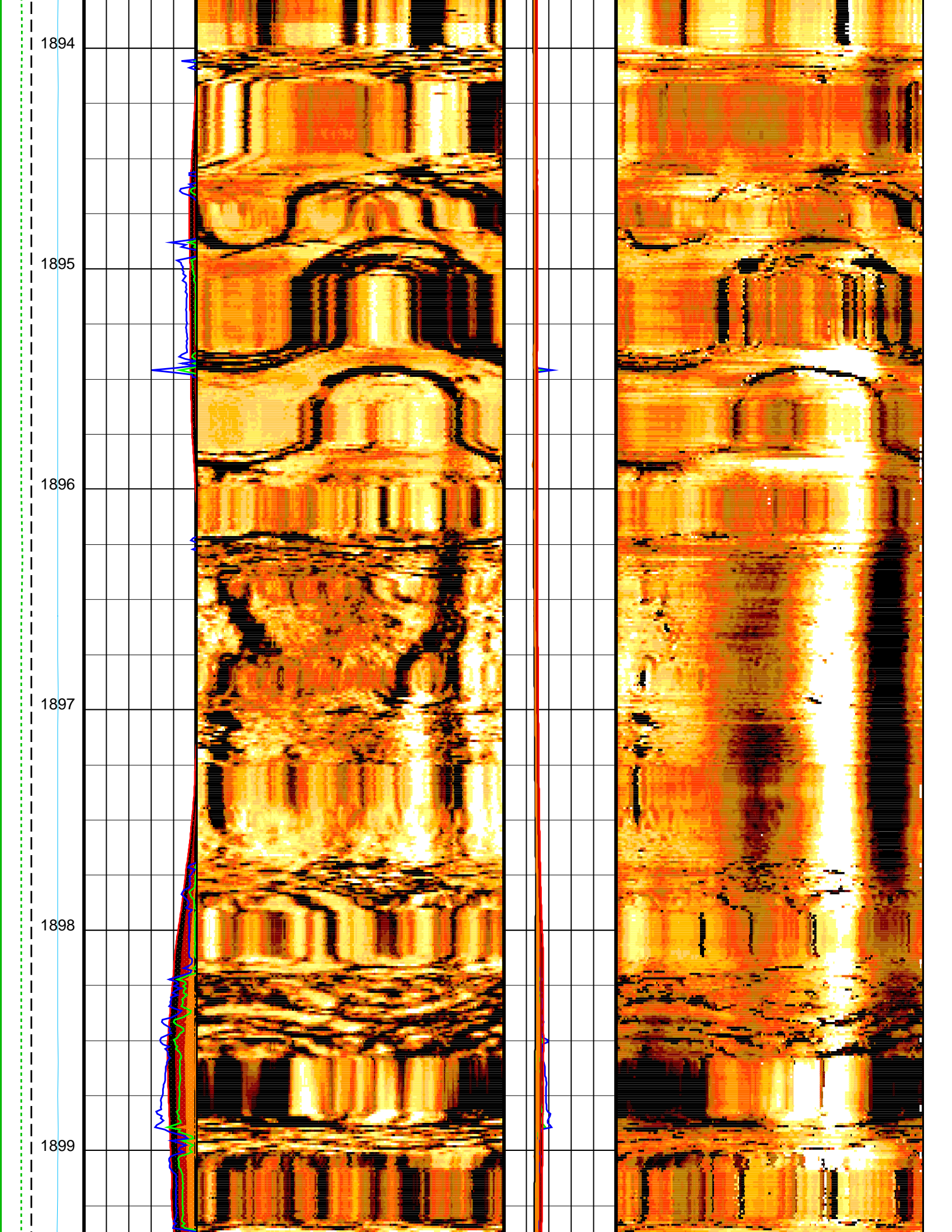


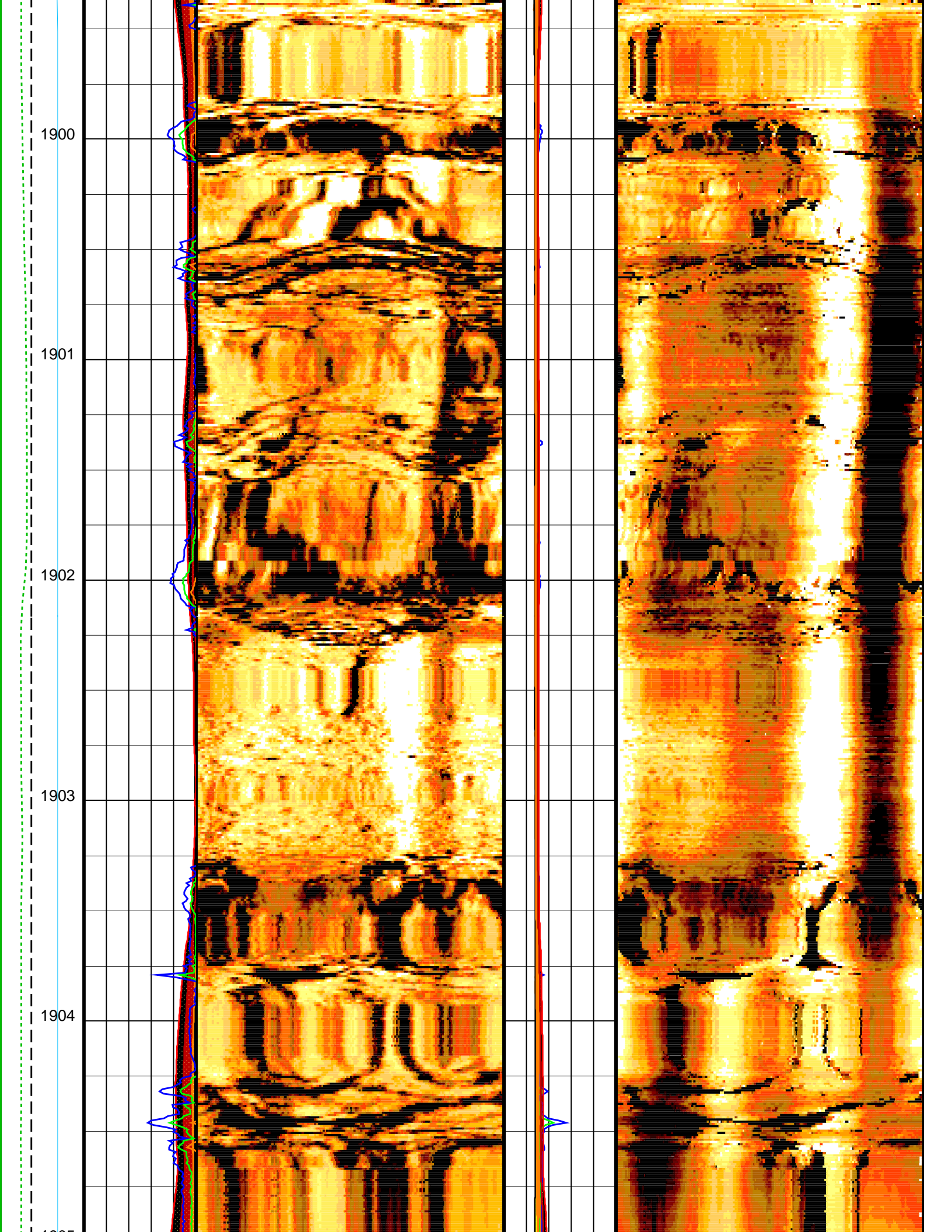


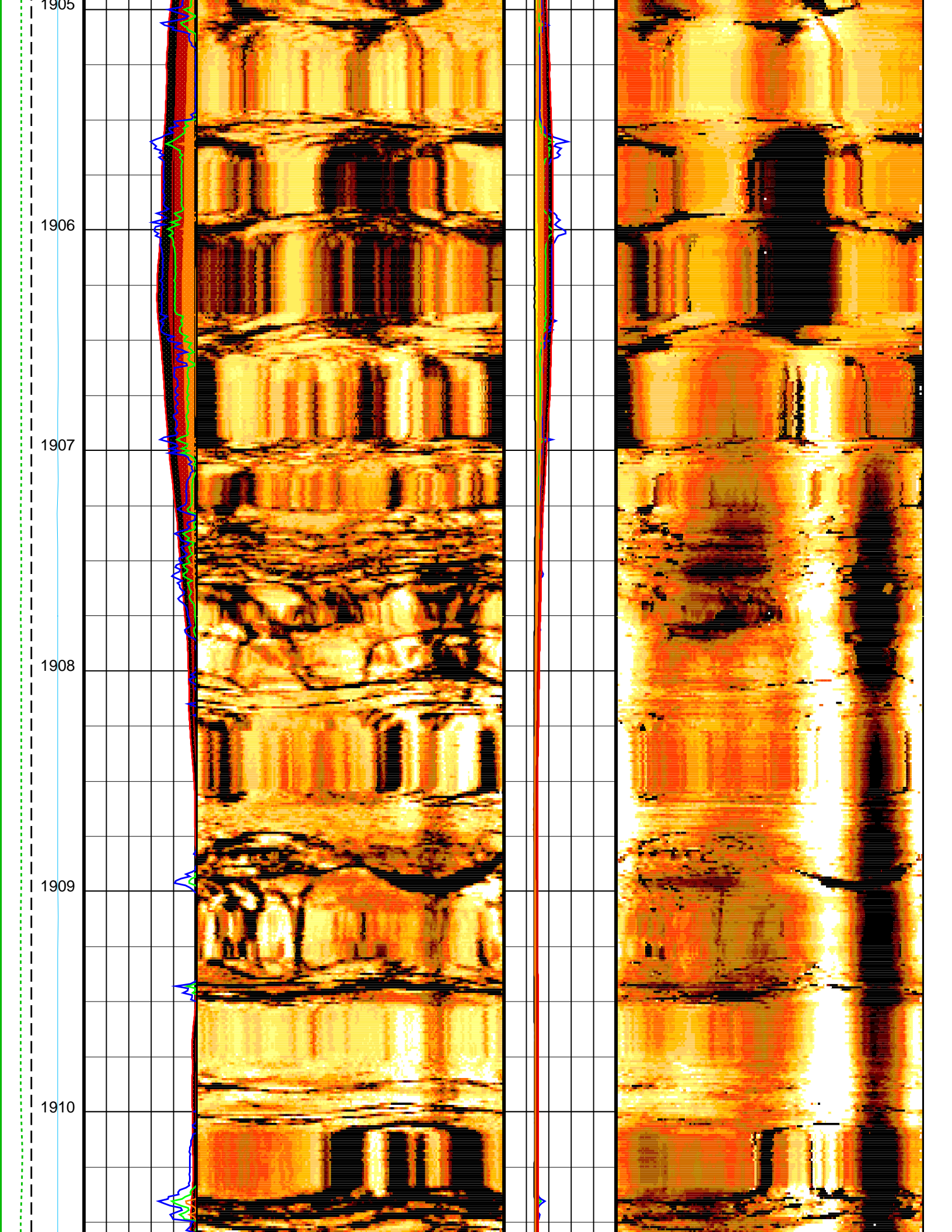


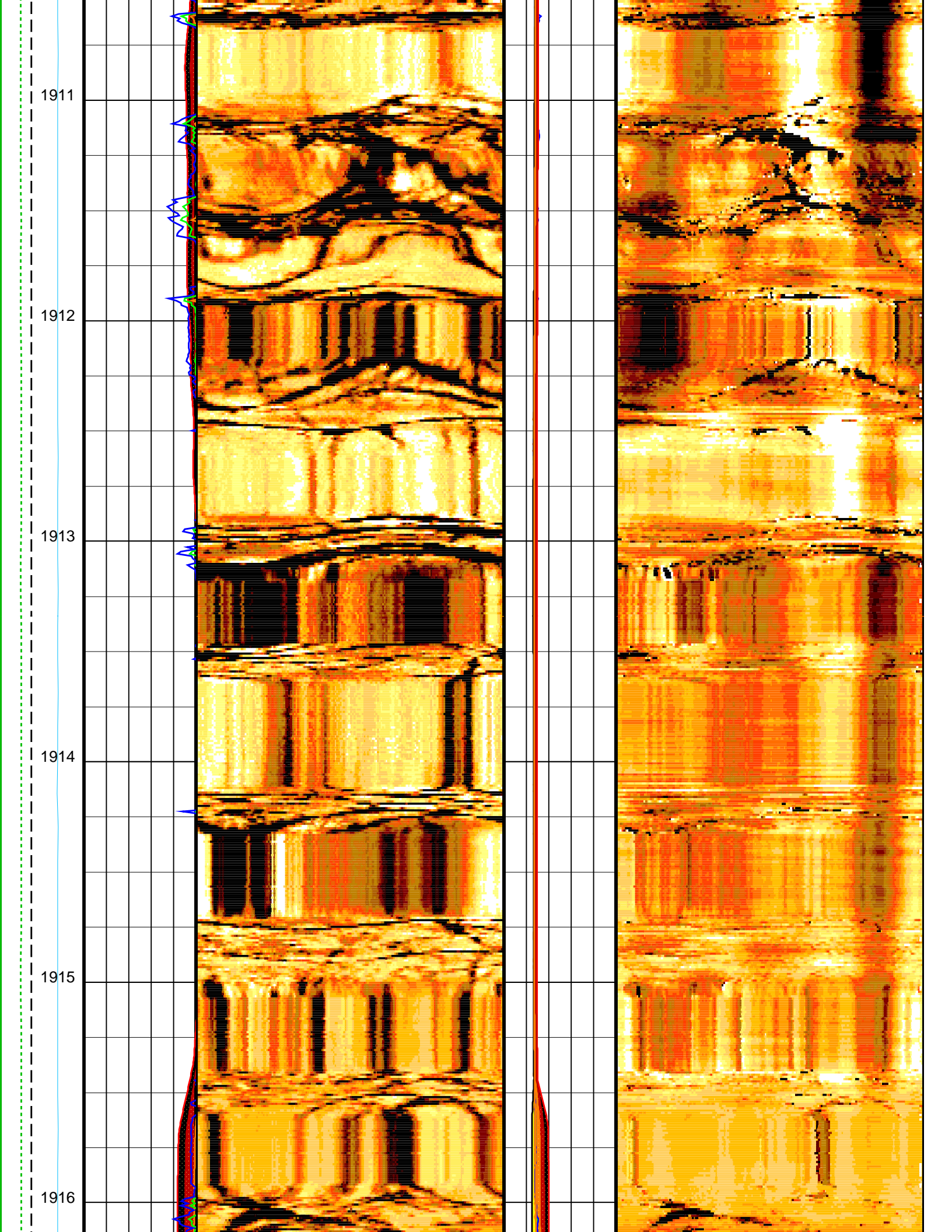


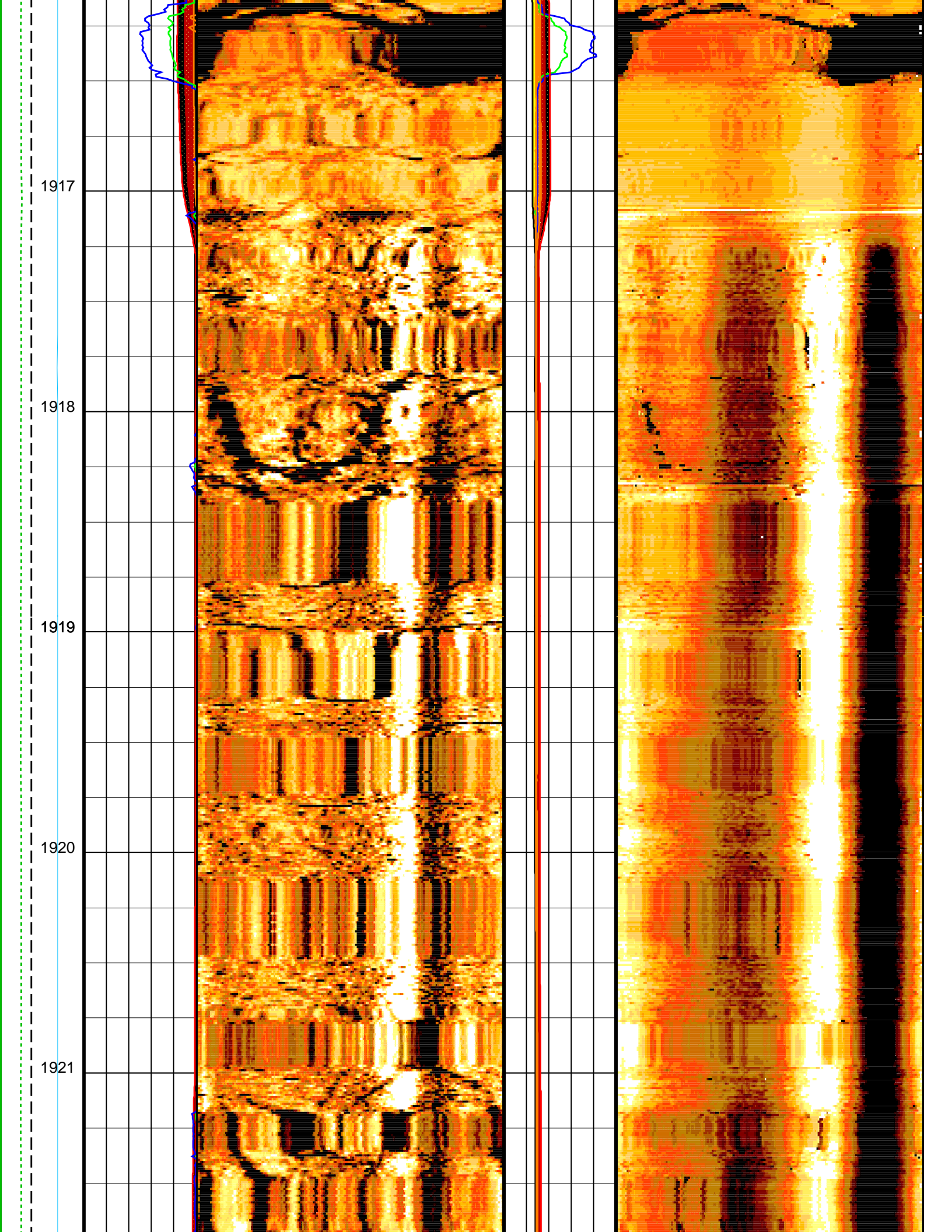


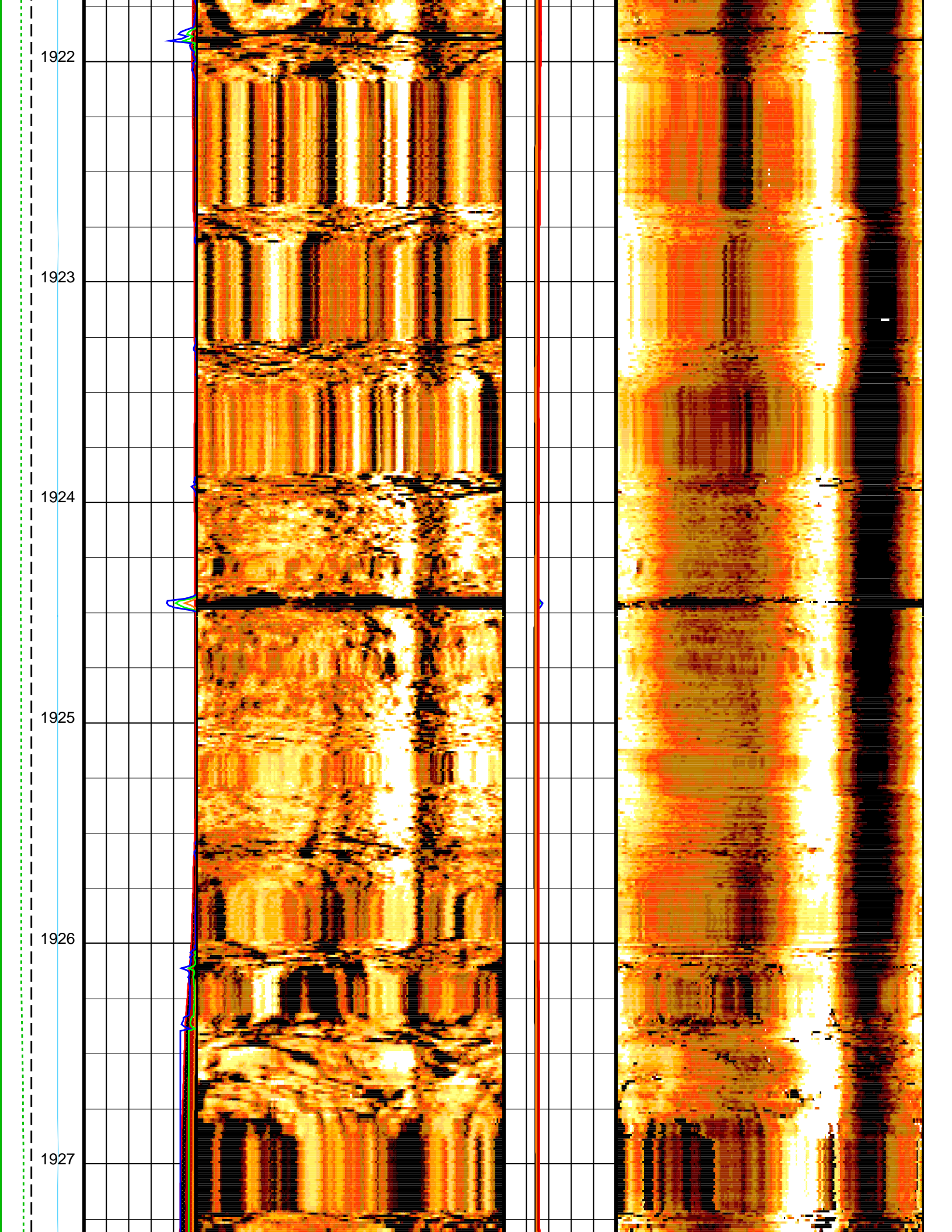


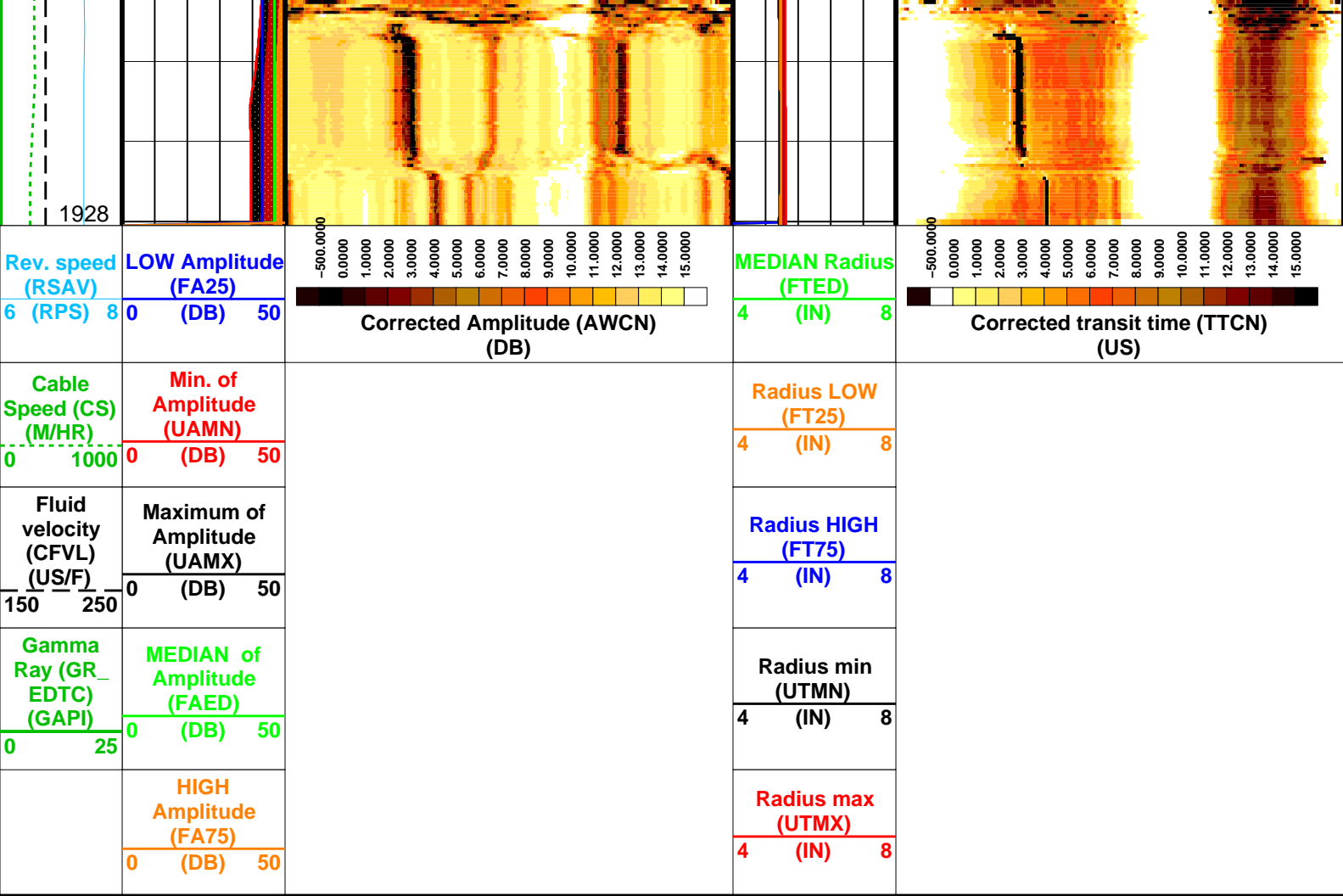












Format: UBI_Image Vertical Scale: 1:20 Graphics File Created: 30-May-2023 14:40

OP System Version: 19C0-187

UBI-E	19C0-187	GPIT-A/B	19C0-187
DTA-A	19C0-187	HRLT-B	19C0-187
APS-C	19C0-187	EDTC-B	19C0-187

Parameters

DLIS Name	Description	Value	
UBI-E: Ultrasonic Borehole Imager – E			
AAMN	Automatic Amplitude Minimum Scale	2	DB
ANGO	Angular Offset	20	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
CSID	Casing Inner Diameter	0	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	187	US/F
DOT	Diameter of Tool	1.85	IN
ECRL	Eccentering Correction Level	FIRST	
ERDB	Eccentering Rejection	12	DB
FDOS	FVEL Depth Offset	0	M
FMOS	FVEL Measurement Offset	0	US/F
GCSW	Gain Correction	ON	
IMAR	Image Rotation	OFF	
LIM1	Minimum Limit Control	AUTO	
LIM2	Maximum Limit Control	MANUAL	
NBCD	Color Correction Depth Level	80	
NBLD	Eccentering Correction Depth Level	1	
NCDI	Noise Correction Depth Interval	30	
PNSW	Processing Noise Correction	ON	
RCSO	Reference Calibrator Standoff	0.795	IN
RJ60	60 Hz Correction	ON	
SWLV	Sliding Window Minimum	Inh_50us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UBI	UBI Flagging of Lost Echoes	OFF	

UGOS	UBI/UCI GPI Offset	3.63	IN
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI3_SW250_180_1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	UBI_HRLA_APS_086LUP	FN:84	PRODUCER	26-May-2023 21:23	1928.0 M	857.7 M
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Output DLIS Files

DEFAULT	UBI_HRLA_APS_111PUP	FN:106	PRODUCER	30-May-2023 14:40		
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Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
General Purpose Inclinator Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 24-May-2023 15:51							
TEMPERATURE REFERENCE :	N/A	N/A	68	N/A	N/A	N/A	DEGF
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A	
General Purpose Inclinator Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 24-May-2023 15:51							
TEMPERATURE REFERENCE :	N/A	N/A	66	N/A	N/A	N/A	DEGF
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	428	N/A	N/A	N/A	
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01							
Before: 24-May-2023 15:52							
HRLT M0-M1 Voltage Plus – 0	0	N/A	-319.1	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-336.7	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-343.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-332.6	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-320.8	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-322.5	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	326.1	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 7	0	N/A	-322.7	N/A	N/A	9.681	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12							
Before: 24-May-2023 15:52							
HRLT M1-M2 Voltage Plus – 0	0	N/A	1745	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1843	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1874	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1816	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1752	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1763	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1792	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23							
Before: 24-May-2023 15:52							
HRLT M2-M3 Voltage Plus – 0	0	N/A	1734	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1843	N/A	N/A	53.42	UV

HRLT M2-M3 Voltage Plus - 2	0	N/A	1876	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1822	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1752	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1764	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1782	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: 24-May-2023 15:52

HRLT A3-A4 Voltage Plus - 0	0	N/A	68770	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	72890	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	74460	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	72580	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	69790	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	70280	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-69430	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: 24-May-2023 15:52

HRLT A4-A5 Voltage Plus - 0	0	N/A	68850	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	73090	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	74640	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	72720	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	69880	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	70370	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-69630	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: 24-May-2023 15:52

HRLT A5-A6 Voltage Plus - 0	0	N/A	68720	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	72950	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	74510	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	72590	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	69760	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	70250	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-69490	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: 24-May-2023 15:52

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68190	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-72720	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-74320	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-72480	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-69670	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-70160	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	69230	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: 24-May-2023 15:52

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68230	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-72820	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-74410	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-72550	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-69730	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-70200	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	69330	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: 24-May-2023 15:52

HRLT Source Current Plus - 0	0	N/A	284.6	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: 24-May-2023 15:52

HRLT Vertical Voltage PI - 0	0	N/A	-320.4	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-329.9	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-335.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-323.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-309.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-326.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	322.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	322.2	N/A	N/A	9.681	UV

HRLT Vertical Voltage PI – 6	0	N/A	332.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 7	0	N/A	-322.7	N/A	N/A	9.681	UV
Accelerator–Porosity Tool Wellsite Calibration – Detector Background							
Master: 19–May–2023 15:17 Before: 24–May–2023 15:55							
Near Det Bkg Cntrate	30.00	27.70	26.30	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	31.86	31.81	N/A	N/A	N/A	CPS
Array–1 Det Bkg Cntrate	30.00	26.10	24.94	N/A	N/A	N/A	CPS
Array–2 Det Bkg Cntrate	30.00	27.05	27.60	N/A	N/A	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	26.75	27.85	N/A	N/A	N/A	CPS
Accelerator–Porosity Tool Wellsite Calibration – Calibration Ratios							
Master: 19–May–2023 15:17							
Near/Far Calibration Ratio	0.9250	0.9996	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.120	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.011	N/A	N/A	N/A	N/A	
Accelerator–Porosity Tool Wellsite Calibration – Tank Check							
Master: 19–May–2023 15:17							
Array–1 Standoff Porosity	11.75	11.62	N/A	N/A	N/A	N/A	PU
Array–2 Standoff Porosity	11.75	11.26	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.869	N/A	N/A	N/A	N/A	US
Array–1 SDT Ratio Up/Down	1.000	0.9844	N/A	N/A	N/A	N/A	
Array–2 SDT Ratio Up/Down	1.000	0.9815	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	28.19	N/A	N/A	N/A	N/A	CU
Accelerator–Porosity Tool Wellsite Calibration – CCR7 signal boxes							
Master: 19–May–2023 14:36							
Near Detector Plateau Setting	1650	1744	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2065	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1964	N/A	N/A	N/A	N/A	V
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: Calibration not done							
EDTC Z–Axis Acceleration	32.19	N/A	32.17	N/A	N/A	N/A	F/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: Calibration not done							
Gamma Ray (Jig – Bkg)	N/A	N/A	N/A	N/A	N/A	N/A	GAPI
Gamma Ray (Calibrated)	165.0	N/A	N/A	N/A	N/A	15.00	GAPI

Accelerator–Porosity Tool – Detector Plateau Settings :							
Near Detector Plateau Setting	1744 V						
Far Detector Plateau Setting	2065 V						
Array Detector Plateau Setting	1964 V						

General Purpose Inclinator / Equipment Identification							
Primary Equipment:							
GPIT Cartridge – A			GPIC – A		719		
Auxiliary Equipment:							
GPIT Housing			GPIH – A				

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









High Resolution Laterolog Array – B Wellsite Calibration							
HRLT M01							
Idx	Phase	HRLT M0–M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		–319.1	–322.7	–280.7	–379.7	









1	Before		-336.7	-322.7	-280.7	-379.7
2	Before		-343.3	-322.7	-280.7	-379.7
3	Before		-332.6	-322.7	-280.7	-379.7
4	Before		-320.8	-322.7	-280.7	-379.7
5	Before		-322.5	-322.7	-280.7	-379.7
6	Before		326.1	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
(Minimum) (Nominal) (Maximum)						
Before: 24-May-2023 15:52						









High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1–M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1745	1781	2095	1549
1	Before		1843	1781	2095	1549
2	Before		1874	1781	2095	1549
3	Before		1816	1781	2095	1549
4	Before		1752	1781	2095	1549
5	Before		1763	1781	2095	1549
6	Before		-1792	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 24-May-2023 15:52						




High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1734	1781	2095	1549
1	Before		1843	1781	2095	1549
2	Before		1876	1781	2095	1549
3	Before		1822	1781	2095	1549
4	Before		1752	1781	2095	1549
5	Before		1764	1781	2095	1549
6	Before		-1782	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 24-May-2023 15:52						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68770	70000	82360	60900
1	Before		72890	70000	82360	60900
2	Before		74460	70000	82360	60900
3	Before		72580	70000	82360	60900
4	Before		69790	70000	82360	60900
5	Before		70280	70000	82360	60900
6	Before		-69430	-70000	-60900	-82360
7	Before		70000	70000	82360	60900

		(Minimum)	(Nominal)	(Maximum)			
Before: 24-May-2023 15:52							
High Resolution Laterolog Array – B Wellsite Calibration							
HRLT V45							
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		68850	70000	82360	60900	
1	Before		73090	70000	82360	60900	
2	Before		74640	70000	82360	60900	
3	Before		72720	70000	82360	60900	
4	Before		69880	70000	82360	60900	
5	Before		70370	70000	82360	60900	
6	Before		-69630	-70000	-60900	-82360	
7	Before		70000	70000	82360	60900	
		(Minimum)	(Nominal)	(Maximum)			
Before: 24-May-2023 15:52							

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT V56							
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		68720	70000	82360	60900	
1	Before		72950	70000	82360	60900	
2	Before		74510	70000	82360	60900	
3	Before		72590	70000	82360	60900	
4	Before		69760	70000	82360	60900	
5	Before		70250	70000	82360	60900	
6	Before		-69490	-70000	-60900	-82360	
7	Before		70000	70000	82360	60900	
		(Minimum)	(Nominal)	(Maximum)			
Before: 24-May-2023 15:52							

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VTP							
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68190	-70000	-60900	-82360	
1	Before		-72720	-70000	-60900	-82360	
2	Before		-74320	-70000	-60900	-82360	
3	Before		-72480	-70000	-60900	-82360	
4	Before		-69670	-70000	-60900	-82360	
5	Before		-70160	-70000	-60900	-82360	
6	Before		69230	70000	82360	60900	
7	Before		-70000	-70000	-60900	-82360	
		(Minimum)	(Nominal)	(Maximum)			
Before: 24-May-2023 15:52							

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VBD							
Idx	Phase	HRLT Bridle#9–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68230	-70000	-60900	-82360	
1	Before		-72820	-70000	-60900	-82360	
							

Before				-74410	-70000	-60900	-82360
3	Before			-72550	-70000	-60900	-82360
4	Before			-69730	-70000	-60900	-82360
5	Before			-70200	-70000	-60900	-82360
6	Before			69330	70000	82360	60900
7	Before			-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)							
Before: 24-May-2023 15:52							




High Resolution Laterolog Array – B Wellsite Calibration							
HRLT ISO							
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum	
0	Before		284.6	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: 24-May-2023 15:52							

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT MV							
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-320.4	-322.7	-280.7	-379.7	
1	Before		-329.9	-322.7	-280.7	-379.7	
2	Before		-335.5	-322.7	-280.7	-379.7	
3	Before		-323.5	-322.7	-280.7	-379.7	
4	Before		-309.5	-322.7	-280.7	-379.7	
5	Before		-326.3	-322.7	-280.7	-379.7	
6	Before		332.2	322.7	379.7	280.7	
7	Before		-322.7	-322.7	-280.7	-379.7	
(Minimum) (Nominal) (Maximum)							
Before: 24-May-2023 15:52							

Accelerator-Porosity Tool / Equipment Identification			
Primary Equipment:			
Accelerator-Porosity Sonde	APS – C	258	
APS Minitron	MNTR – F	51878	
Auxiliary Equipment:			
Accelerator-Porosity Housing	APH – AC	185	
APS Calibration Water Tank	SFT – 178		
APS Aluminum Calibrator Sleeve	SFT – 281		

Accelerator-Porosity Tool Wellsite Calibration									
Detector Background									
Phase	Near Det Bkg Cntrate CPS	Value	Phase	Far Det Bkg Cntrate CPS	Value	Phase	Array-1 Det Bkg Cntrate CPS	Value	
Master		27.70	Master		31.86	Master		26.10	
Before		26.30	Before		31.81	Before		24.94	

Before		26.55	Before		27.85	Before		27.04
1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)		
Phase	Array-2 Det Bkg Cntrate CPS	Value	Phase	Array Therm Det Bkg Cntrate CPS	Value			
Master		27.05	Master		26.75			
Before		27.60	Before		27.85			
1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)					
Master: 19-May-2023 15:17			Before: 24-May-2023 15:55					

Accelerator-Porosity Tool Wellsite Calibration														
Calibration Ratios														
Phase	Near/Far Calibration Ratio			Value	Phase	Near/Array Calibration Ratio			Value	Phase	Near/Array Cal Ratio Up/Down			Value
Master				0.9996	Master				1.120	Master				1.011
	0.8000 (Minimum)	0.9250 (Nominal)	1.050 (Maximum)	0.9000 (Minimum)		1.030 (Nominal)	1.170 (Maximum)	0.9700 (Minimum)	1.000 (Nominal)		1.030 (Maximum)			
Master: 19-May-2023 15:17														

Accelerator-Porosity Tool Wellsite Calibration														
Tank Check														
Phase	Array-1 Standoff Porosity PU			Value	Phase	Array-2 Standoff Porosity PU			Value	Phase	Average Slowing Down Time US			Value
Master	<div><div></div></div>			11.62	Master	<div><div></div></div>			11.26	Master	<div><div></div></div>			5.869
9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)					9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)					5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)				
Phase	Array-1 SDT Ratio Up/Down			Value	Phase	Array-2 SDT Ratio Up/Down			Value	Phase	Sigma Formation CU			Value
Master	<div><div></div></div>			0.9844	Master	<div><div></div></div>			0.9815	Master	<div><div></div></div>			28.19
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)					0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)					20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)				
Master: 19-May-2023 15:17														

Enhanced DTS Cartridge / Equipment Identification	
Primary Equipment:	
EDTC Gamma Ray Detector	EDTG – A/B
Enhanced DTS Cartridge	EDTC – B
Auxiliary Equipment:	
EDTC Housing	EDTH – B

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration F/S2	Value
Before		32.17
	31.53 (Minimum) 32.19 (Nominal) 32.84 (Maximum)	
Before: Calibration not done		

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	NOT DONE		N/A	Before	NOT DONE		N/A	Before	NOT DONE		N/A
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		N/A (Minimum)	N/A (Nominal)	N/A (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)
Before: Calibration not done											

Well: Expedition 399, Site U1601C
Field: Building Blocks of Life, Atlantis Massif
Rig: JOIDES Resolution
Country: Portugal

Porosity(APS)
HRLA
UBI