Schlumberger

Company: **International Ocean Discovery Program**

Well: **Expedition 396, Site U1571A**
Field: **Mid−Norwegian Cont. Margin Magmatism**
Rig: **JOIDES Resolution** Country: **Iceland**

Rig: JOIDES Resolution
Field: Mid−Norwegian Cont. Margin Ma
Location: Latitude: N 67.3067
Well: Expedition 396, Site U1571A
Company: International Ocean Discovery Pr

Ultrasonic Borehole Imager (UBI)

LOCATION

Latitude: N 67.3067
Longitude: E 3.7375

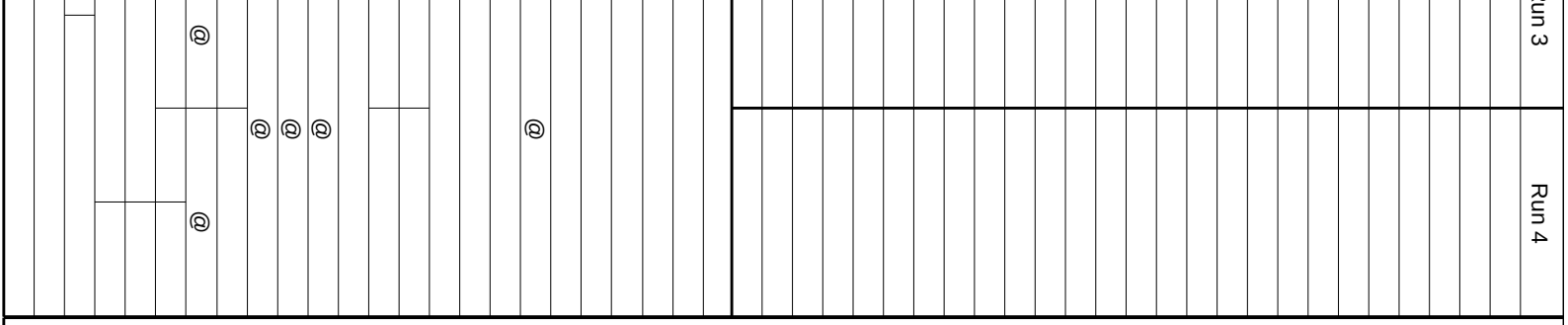
Elev.: K.B. 0.00 m
G.L. −1217.00 m
D.F. 0.00 m

Permanent Datum: Sea Floor — Elev.: −1217.00 m
Log Measured From: Rig Floor — 1217.00 m above Perm. Datum
Drilling Measured From: Rig Floor

Ocean:	Max. Well Deviation	Longitude	Latitude
Atlantic	5 deg	E 3.7375	N 67.3067

	Run 1	Run 2	Run 3
Logging Date	9−Sep−2021		
Run Number	3		
Depth Driller	1464 m		
Schlumberger Depth	1464 m		
Bottom Log Interval	1455 m		
Top Log Interval	1217 m		
Casing Driller Size @ Depth	5.500 in @ 1323.8 m	@	@
Casing Schlumberger	1322 m		
Bit Size	9.875 in		
Type Fluid In Hole	Sea Water		
MUD Density / Viscosity	1.05 g/cm3		
MUD Fluid Loss / PH	8.07		
MUD Source Of Sample	Mudpit		
RM @ Measured Temperature	0.220 ohm.m @ 23 degC	@	@
RMF @ Measured Temperature	@	@	@
RMC @ Measured Temperature	@	@	@
Source RMF / RMC	N/A / N/A		
RM @ MRT / RMF @ MRT	0.369 @ 5 / @ 5	@ / @	@ / @
Maximum Recorded Temperatures	5 degC		
Circulation Stopped Time	9−Sep−2021 21:30		
Logger On Bottom Time	10−Sep−2021 1:25		
Unit Number / Location	627314 Larose, LA		
Recorded By	C. Furman		
Witnessed By	S. Midgley		

	Run 1	Run 2	Run 3
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			
MUD Fluid Loss / PH			
MUD 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			



OTHER SERVICES1

OS1: HNGS/HLDS

OS2: HRLA/MSS

OS3: FMS/DSI

REMARKS: RUN NUMBER 1

Hole drilled with RCB bottom hole assembly (BHA) at 9.875" BS

Drill pipe set at 1323.8mbrf (106.8mbrf).

Fluid type was sea water, displaced in the hole after the second run, but prior to this one.

Depth recorded from drill floor; logs presented as−logged without depth corrections or shifts, as per client instructions.

All logs presented in wireline measured depth below rig floor (MDBRF).

Caliper opened during upward passes; closed inside pipe and while logging down.

TD NOT TAGGED to avoid damage to sensor.

Sea Water circulated at 1460m prior to run, so max depth was 1455m to avoid fouling the sensor.

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

Caliper closed prior to shutting off compensator and entering pipe or casing.

UBI run at 500kHz x 180 samples / rev x 0.2in. resolution, as per client request.

Default fluid velocity of 201 uS/ft used rather than risking a stuck sub in FPM mode during downlog.

Downlog flipped and note the caliper closed logging down.

RUN 1

SERVICE ORDER #:

PROGRAM VERSION: 19C0−187

FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:

PROGRAM VERSION:

FLUID LEVEL:

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

GSR−U 6098
WITM (DTS)−A

DOWNHOLE EQUIPMENT

LEH−QT LEH−QT 301			20.90
AH−369			20.01
DTC−H	CTEM	19.29	19.57

RUN 2

DTC-H 19.57
ECH-KC 9842
DTCH0-A 8799
TelStatus
ToolStatu 18.66

HNGS-BA 18.66
HNGS-BA 99
HNSH-BA 102
Upper_1 17.96
Lower_2 17.75

HNGC-B 16.16
HNGH-A 3
HNGC-B 304
HNGC Stat 15.63

AH-MCD 15.09
AH-MCD 82

DTA-A 12.81
ECH-KE 8456
DTA-A 8453

AH-ECH-MRA 11.59
AH-ECH-MRA 5714

GPIT-A/B 8.70
GPIC-AC 719
GPIH-A 2864

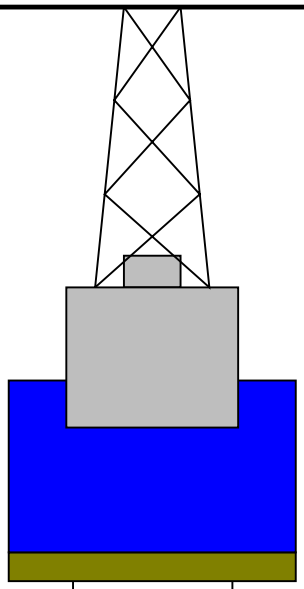
AH-MCD1 7.49
AH-MCD1 1

UBI-D 6.27
USIC-D 941
ECH-MRA 4941
USIS-A 918
USSC-A 1747
USRS-A 223

UBI Contr
UBI Ultra 0.09
HV DF
Tension GPIT 0.00
TOOL ZERO

MAXIMUM STRING DIAMETER 3.75 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

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

	OD	ID	MD		MD	OD	ID	
Kelly Bushing Elevation			0.0					
Derrick Floor Elevation			0.0					
Mean Sea Level			11.1					
					0.0	5.500	4.125	
					1217.0	9.875		Sea Floor
					1304.0	5.500	4.125	Pipe
					1464.0	9.875		TD– Driller

Schlumberger

Downlog

MAXIS Field Log

Company: International Ocean Discovery Program **Well: Expedition 396, Site U1571A**

Input DLIS Files

DEFAULT	Flip_UBI_NGS_049LUP		PRODUCER	10−Sep−2021 02:57	1455.0 M	1191.0 M

Output DLIS Files

DEFAULT	UBI_NGS_051PUP	FN:66	PRODUCER	10−Sep−2021 02:59	1455.0 M	1191.0 M
RTB	UBI_NGS_051PUP	FN:67	PRODUCER	10−Sep−2021 02:59	1455.0 M	1191.0 M

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

HIGH Amplitude (FA75)
0 (DB) 50

MEDIAN of Amplitude (FAED)
0 (DB) 50

Fluid velocity (CFVL) (US/M)
450 750

Maximum of Amplitude (UAMX)
0 (DB) 50

Cable Speed (CS) (M/HR)
0 150000

Min. of Amplitude (UAMN)
0 (DB) 50

Rev. speed (RSAV)
6 (RPS) 8

LOW Amplitude (FA25)
0 (DB) 50

−500.0000 0.0000 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000
Corrected Amplitude (AWCN) (DB)

Radius max (UTMX)
3 (IN) 4.5

Radius min (UTMN)
3 (IN) 4.5

Radius HIGH (FT75)
3 (IN) 4.5

Radius LOW (FT25)
3 (IN) 4.5

MEDIAN Radius (FTED)
3 (IN) 4.5

−500.0000 0.0000 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000
Corrected transit time (TTCN) (US)

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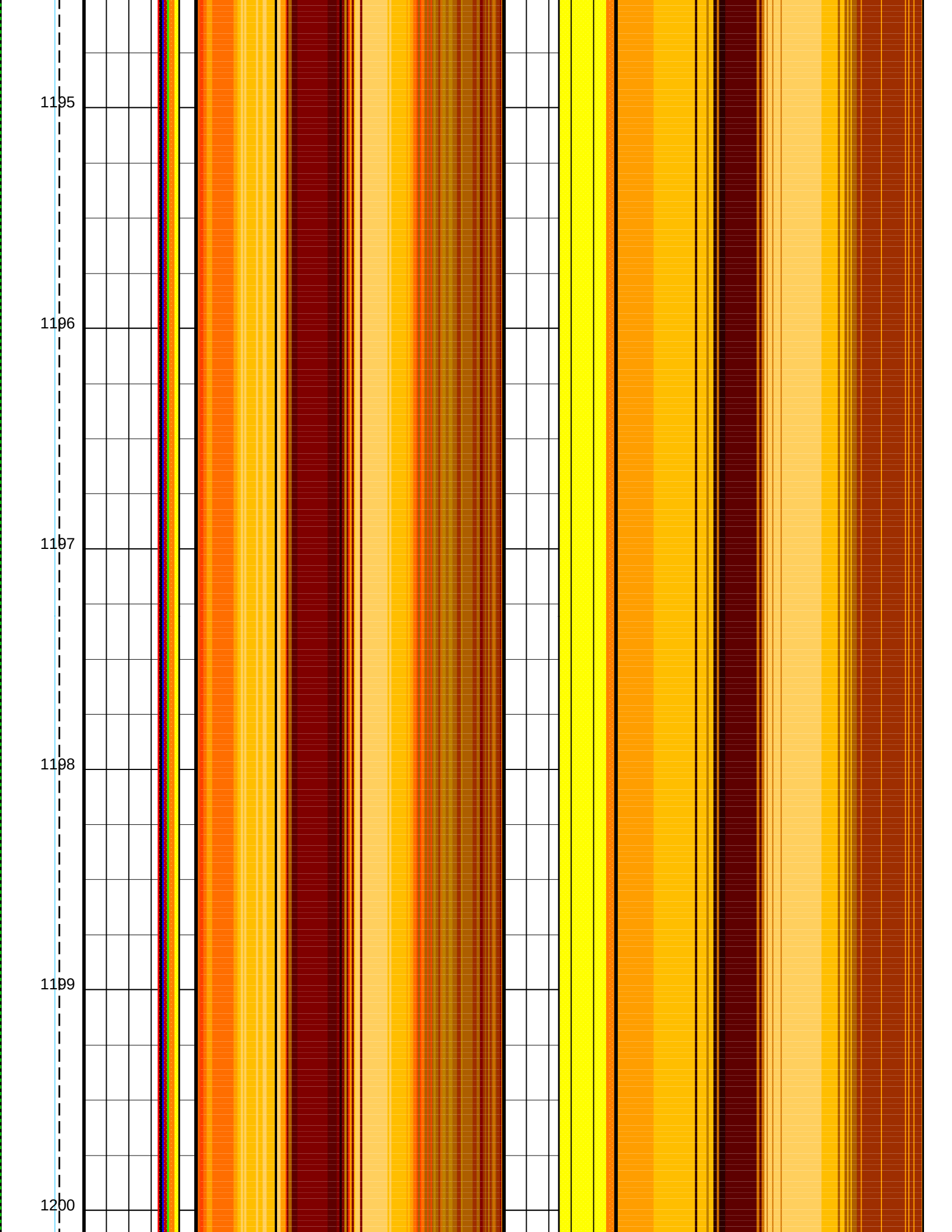
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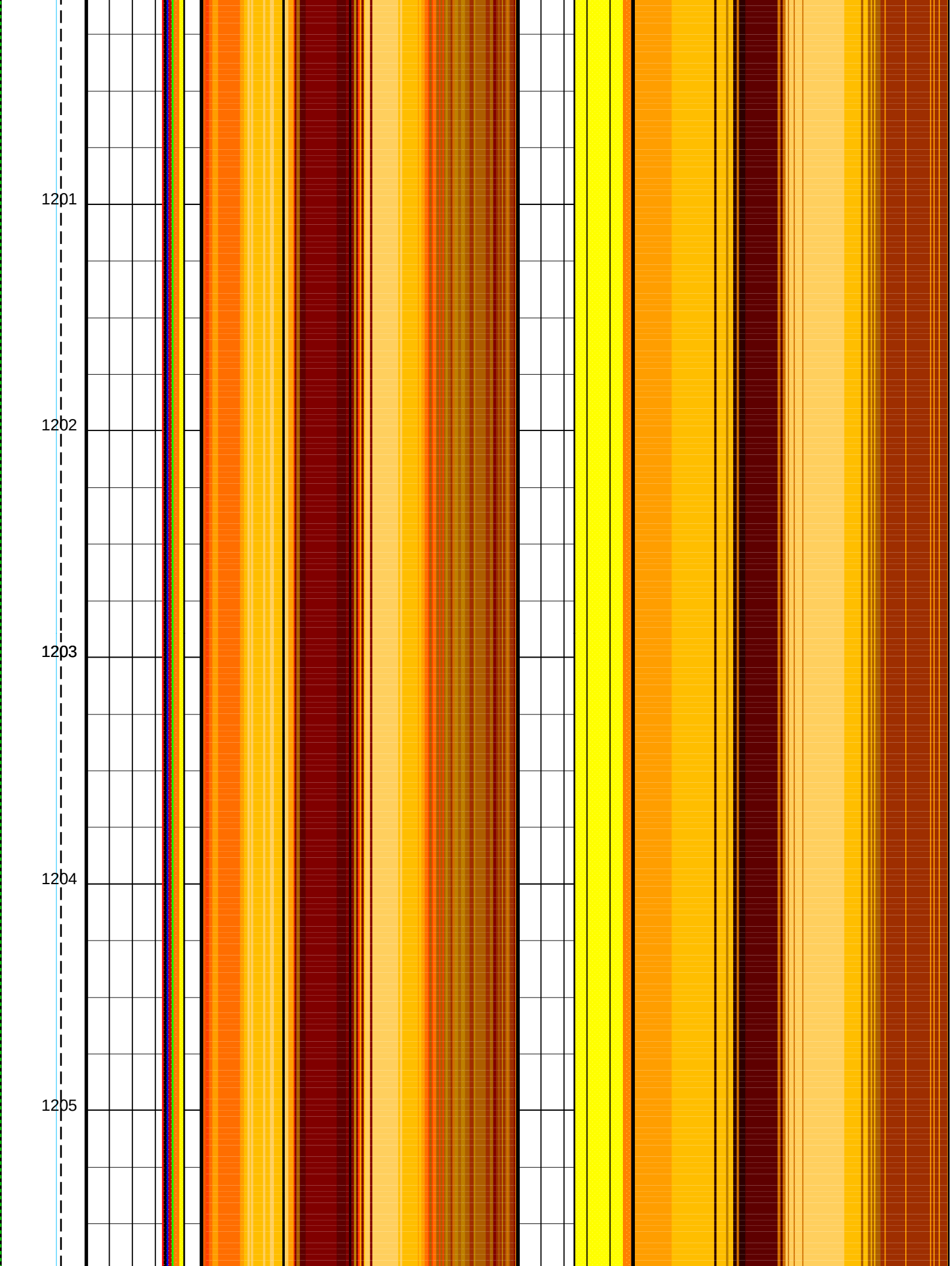
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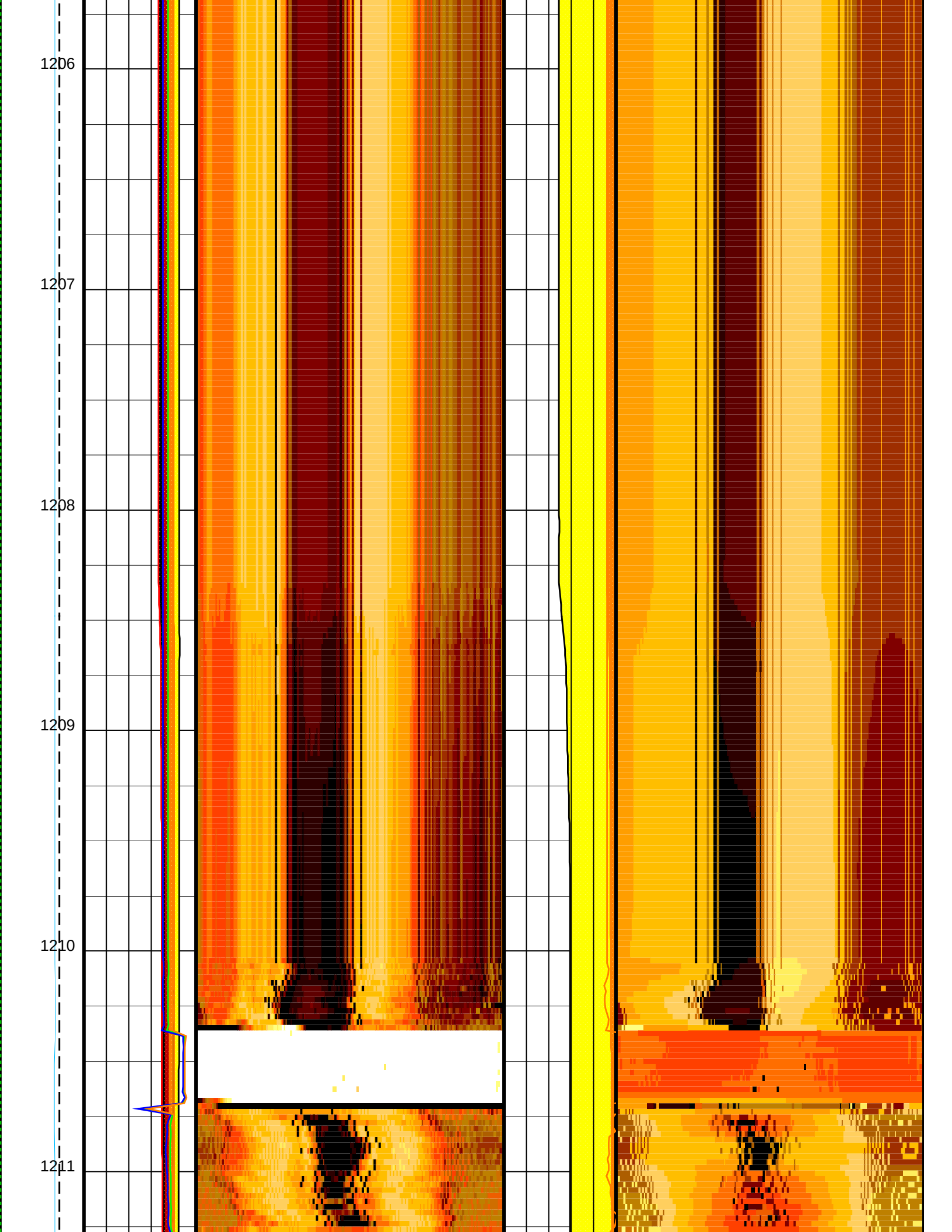
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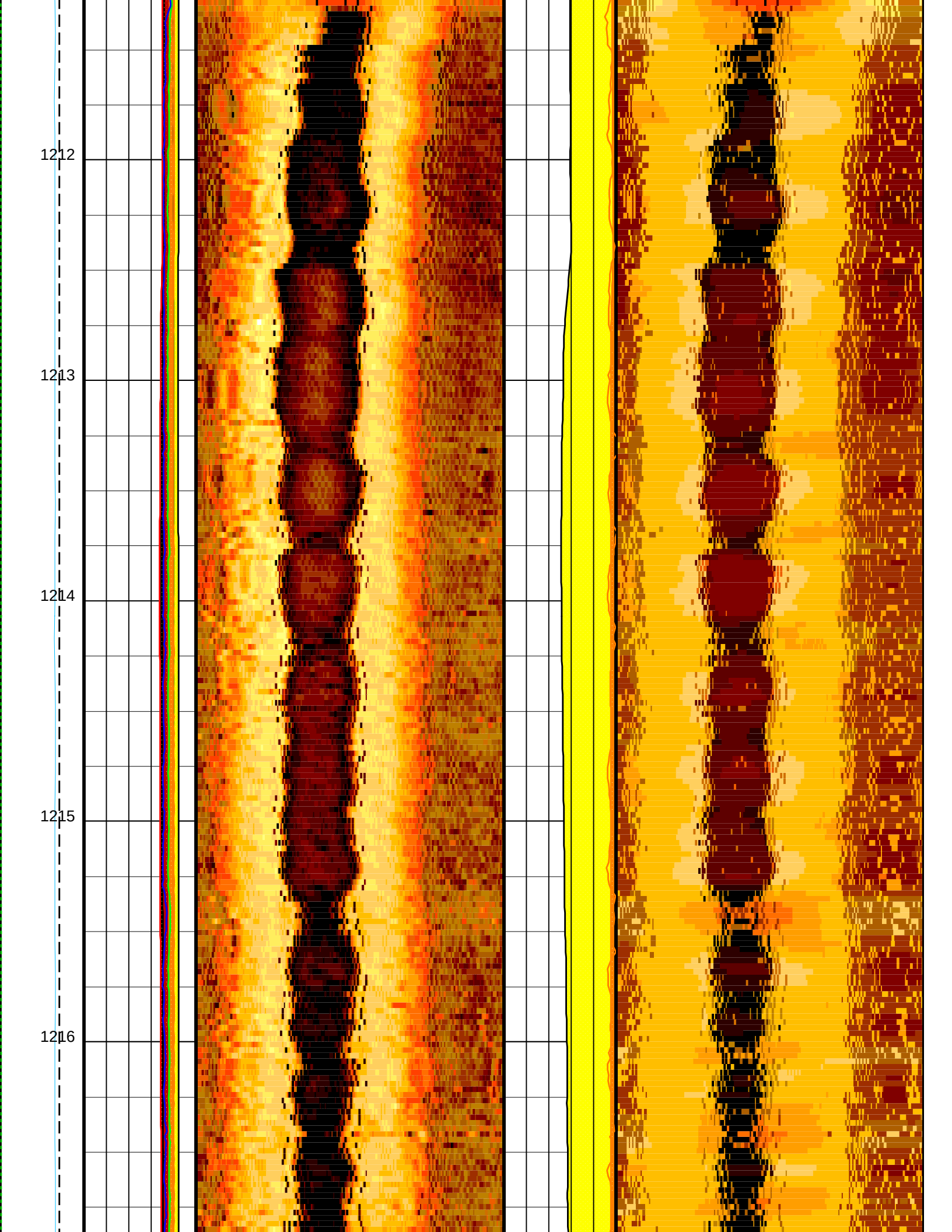
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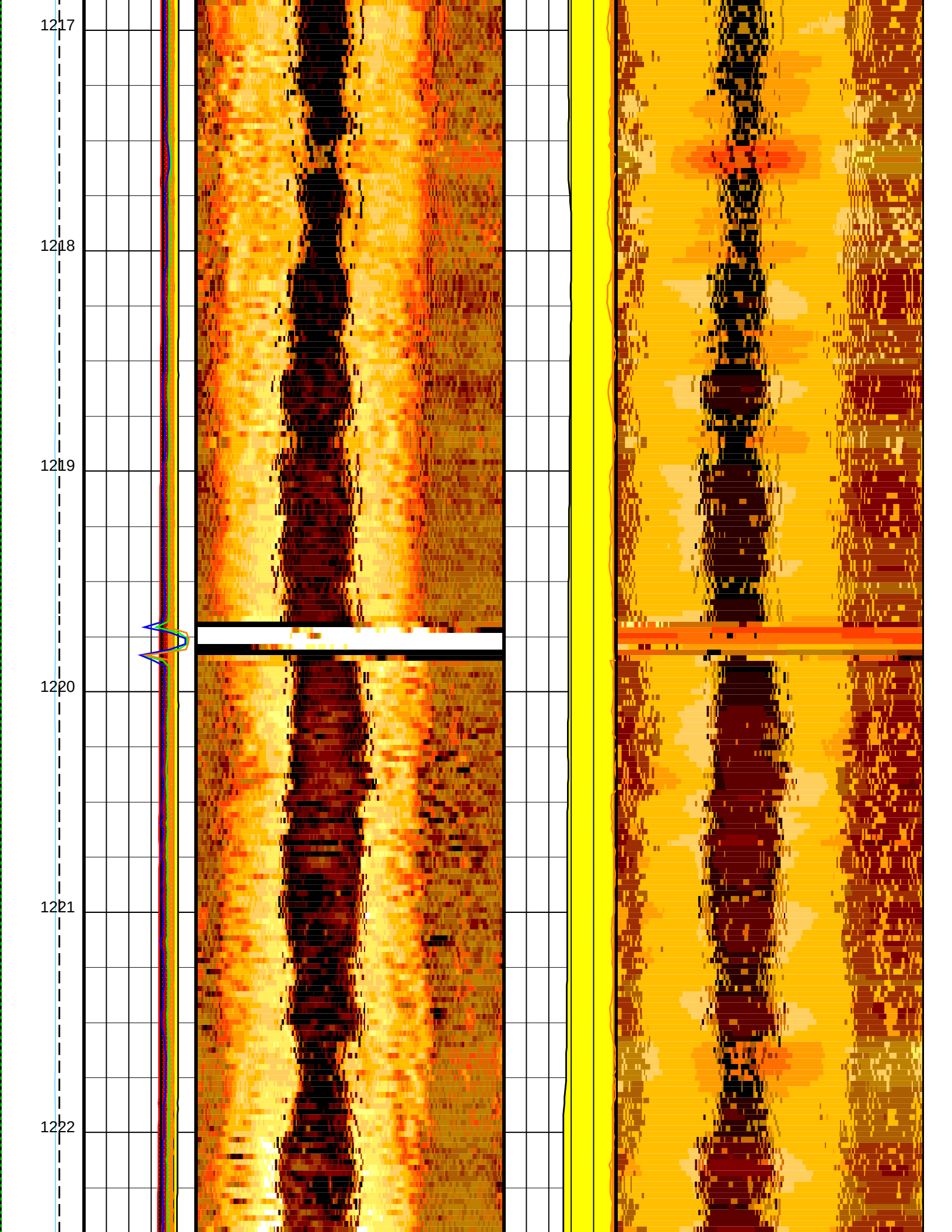
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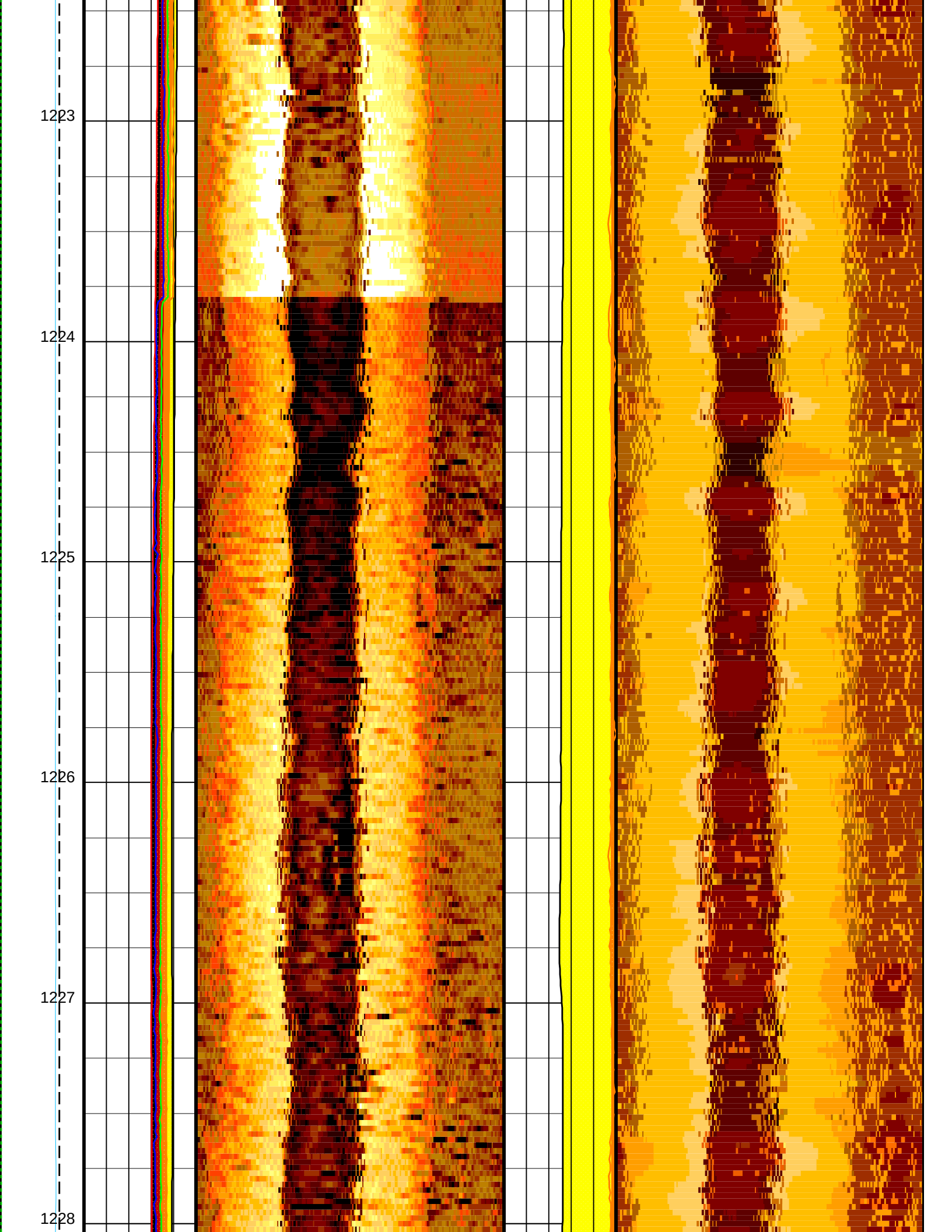
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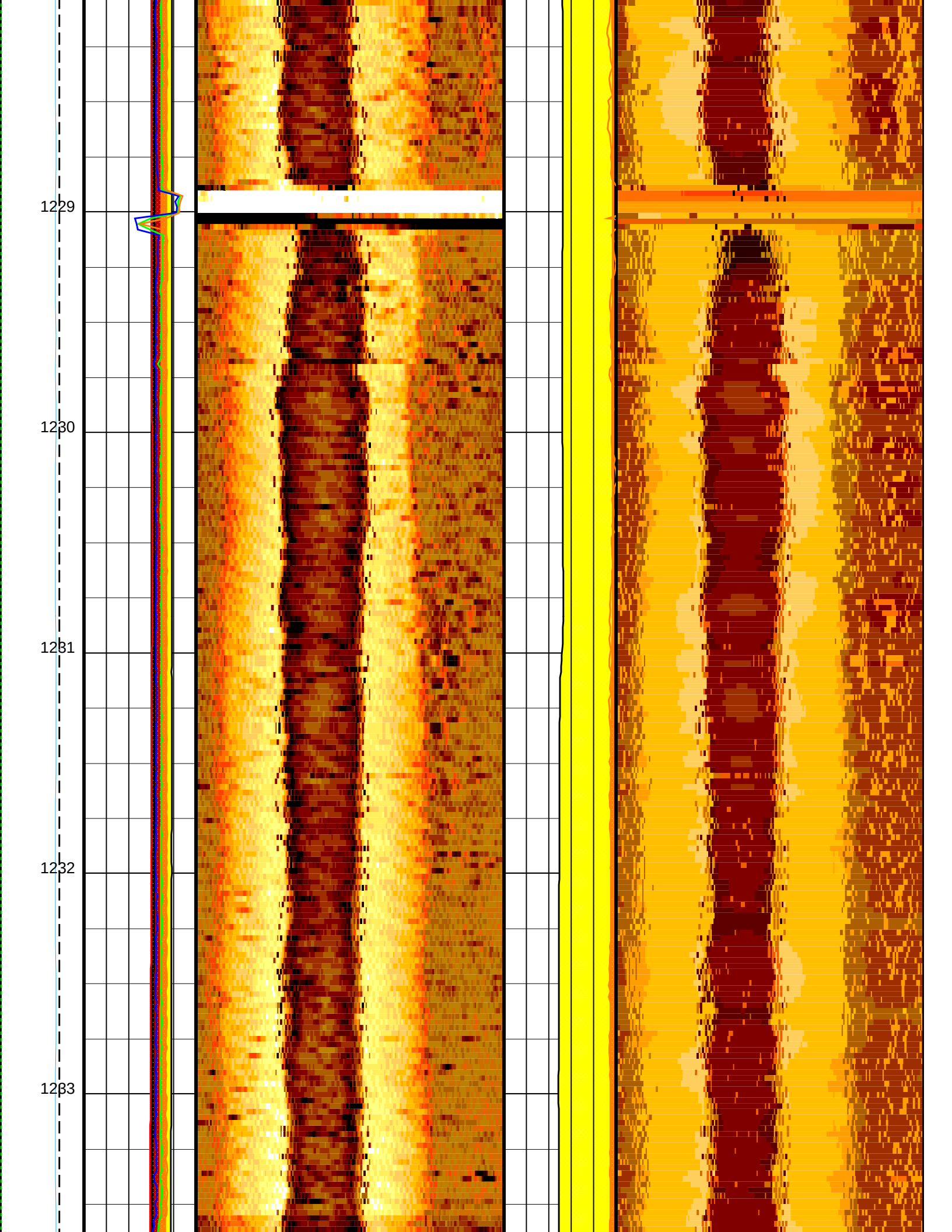
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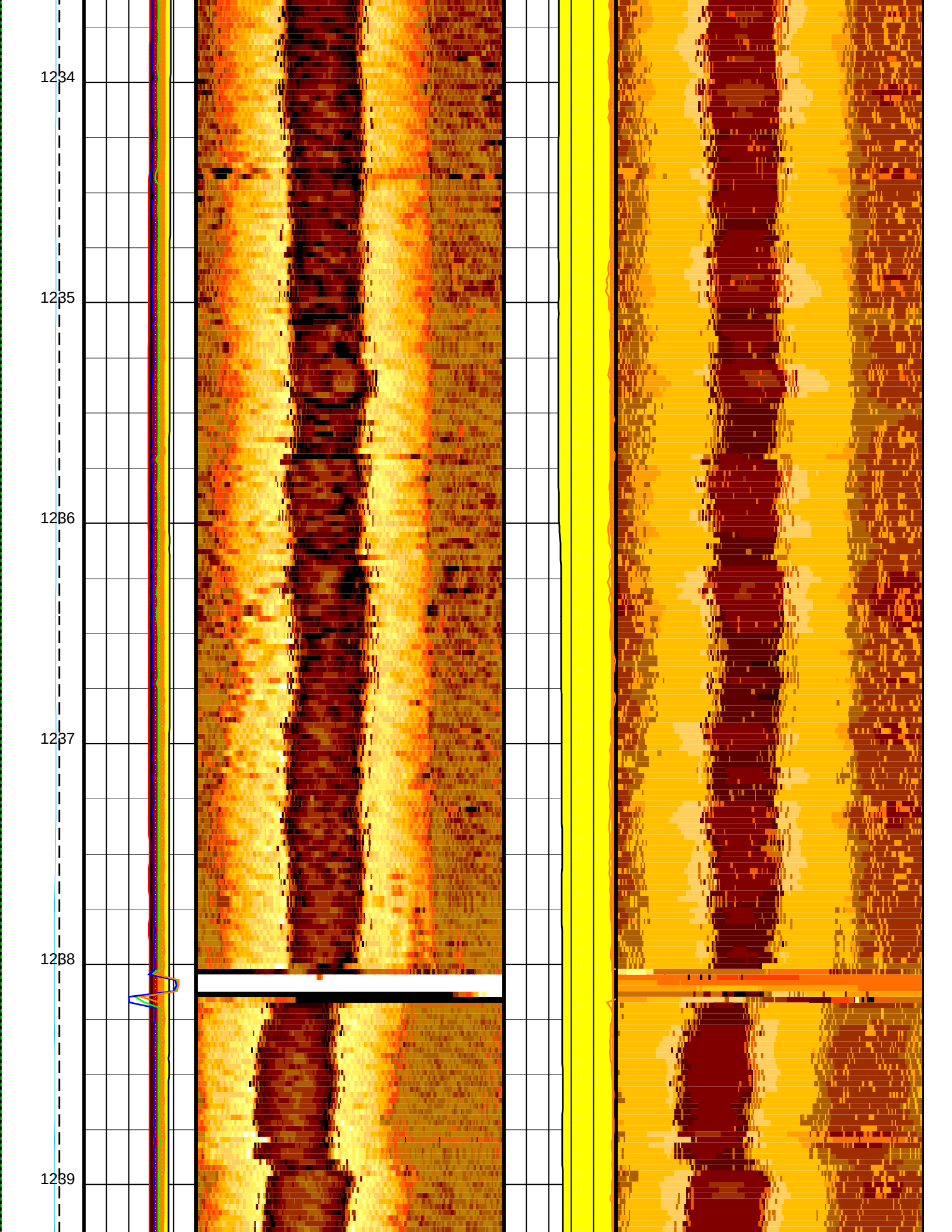
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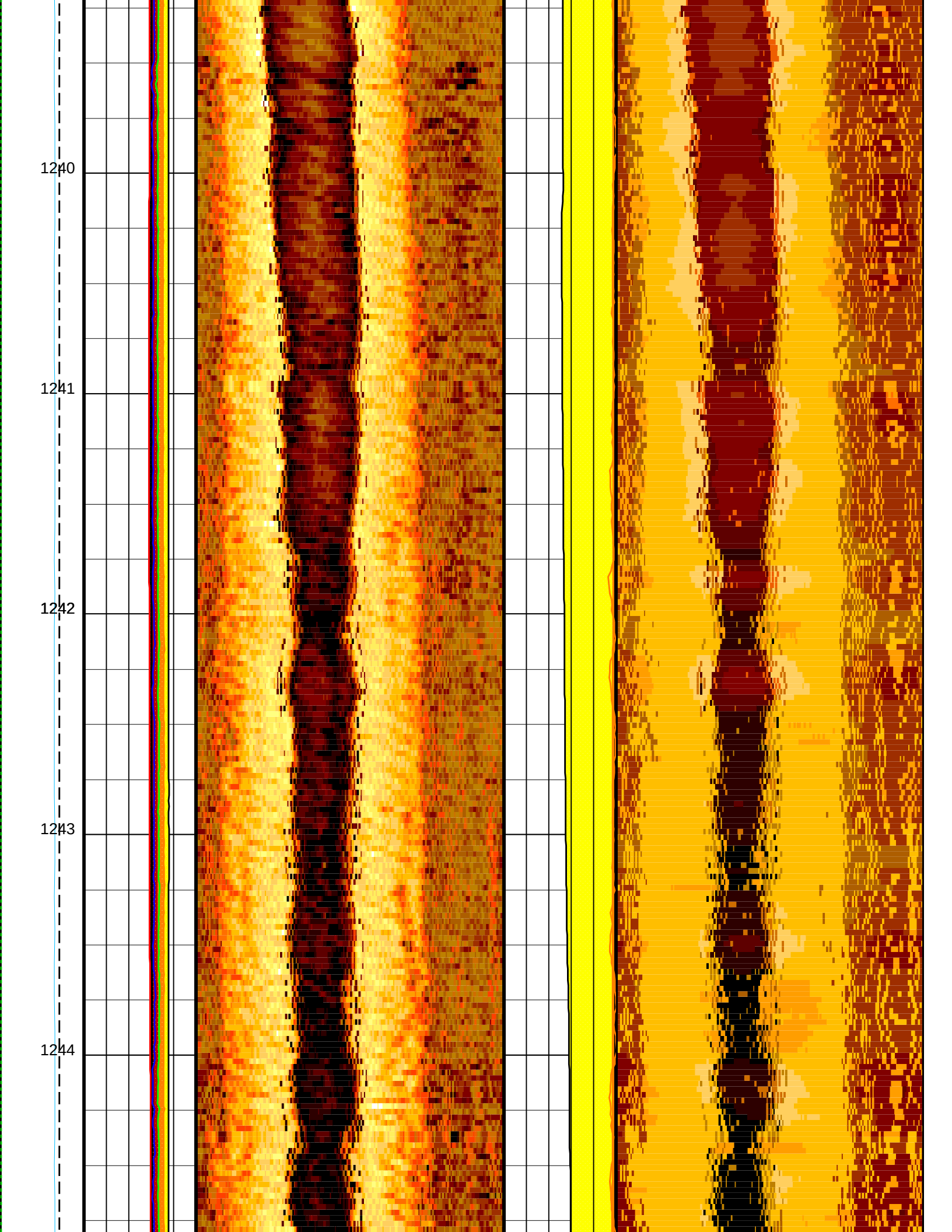
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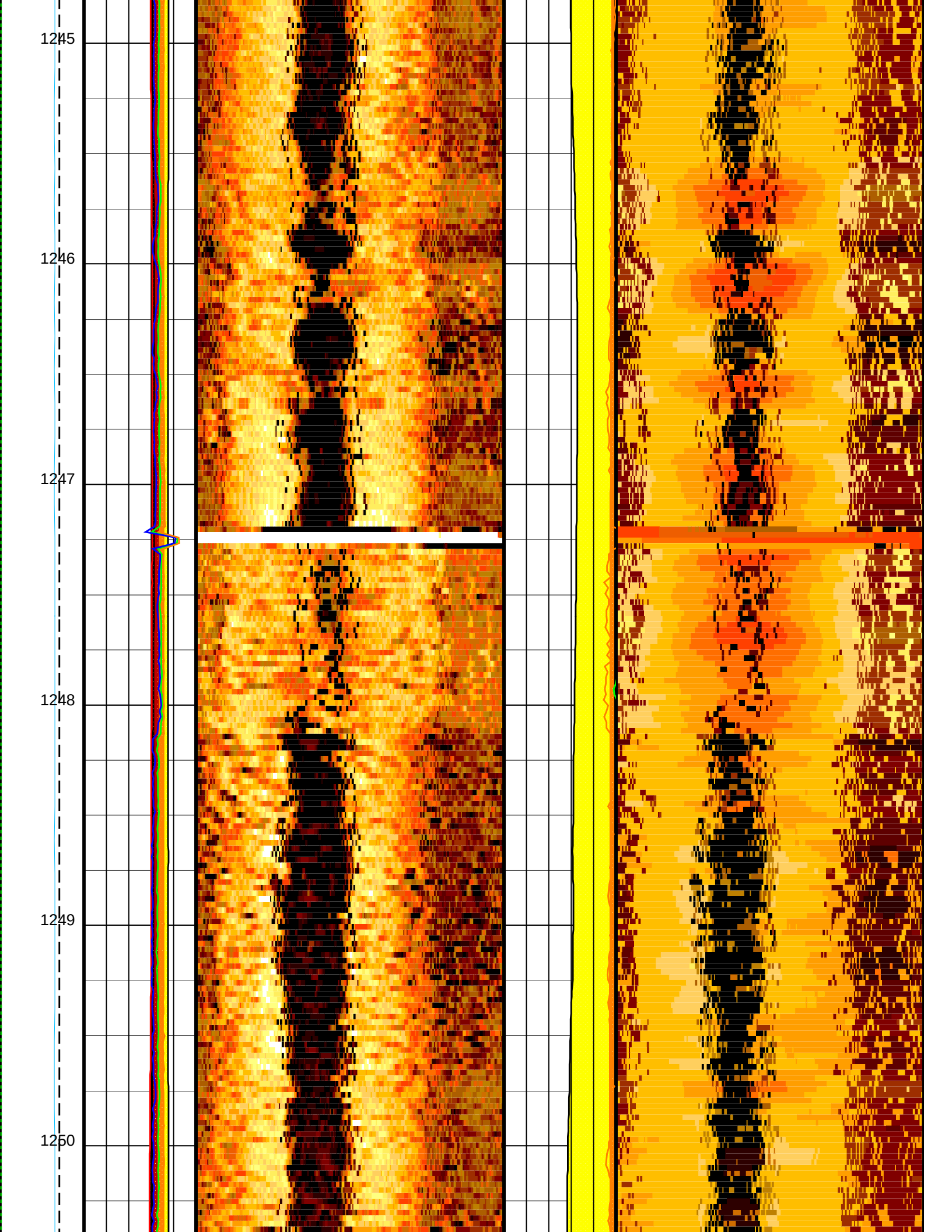
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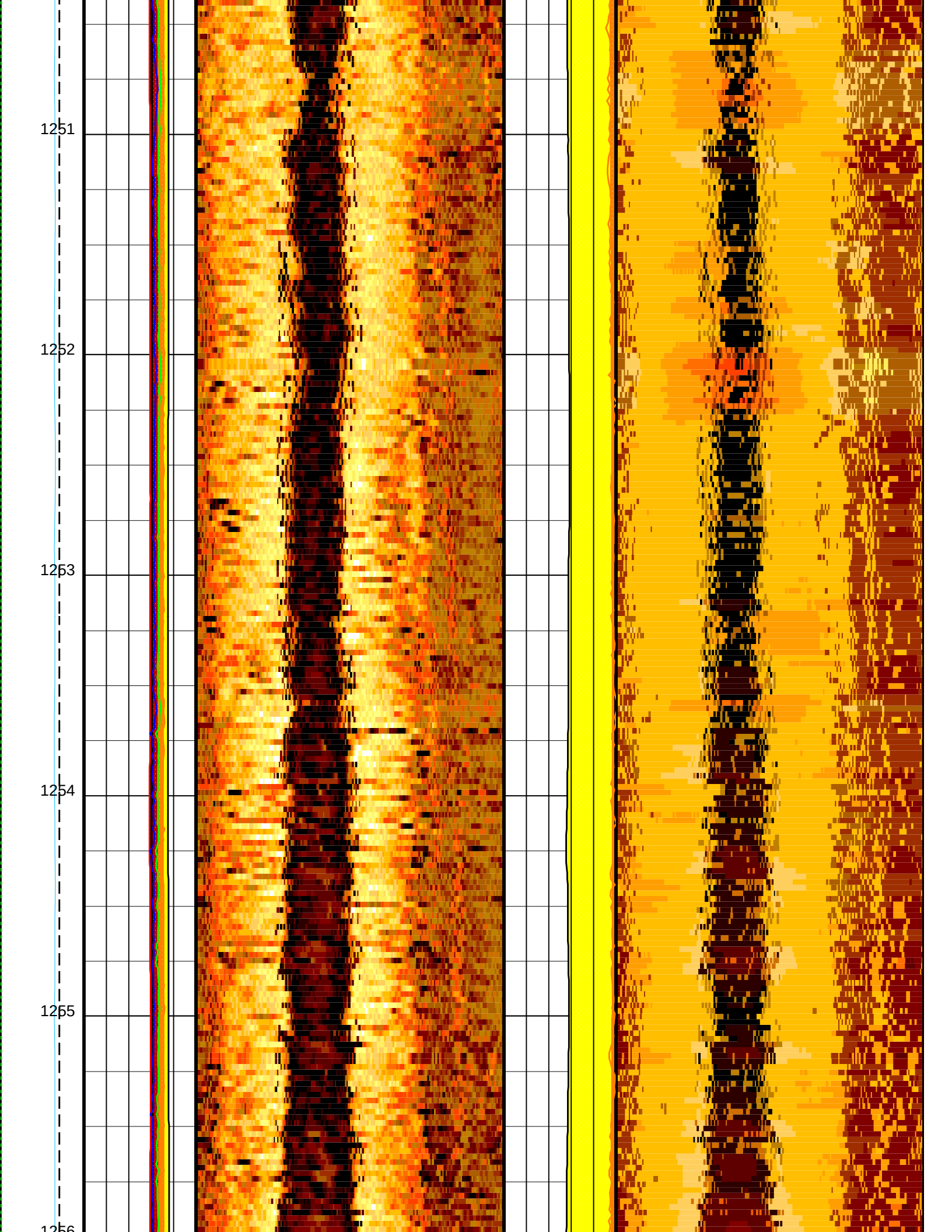
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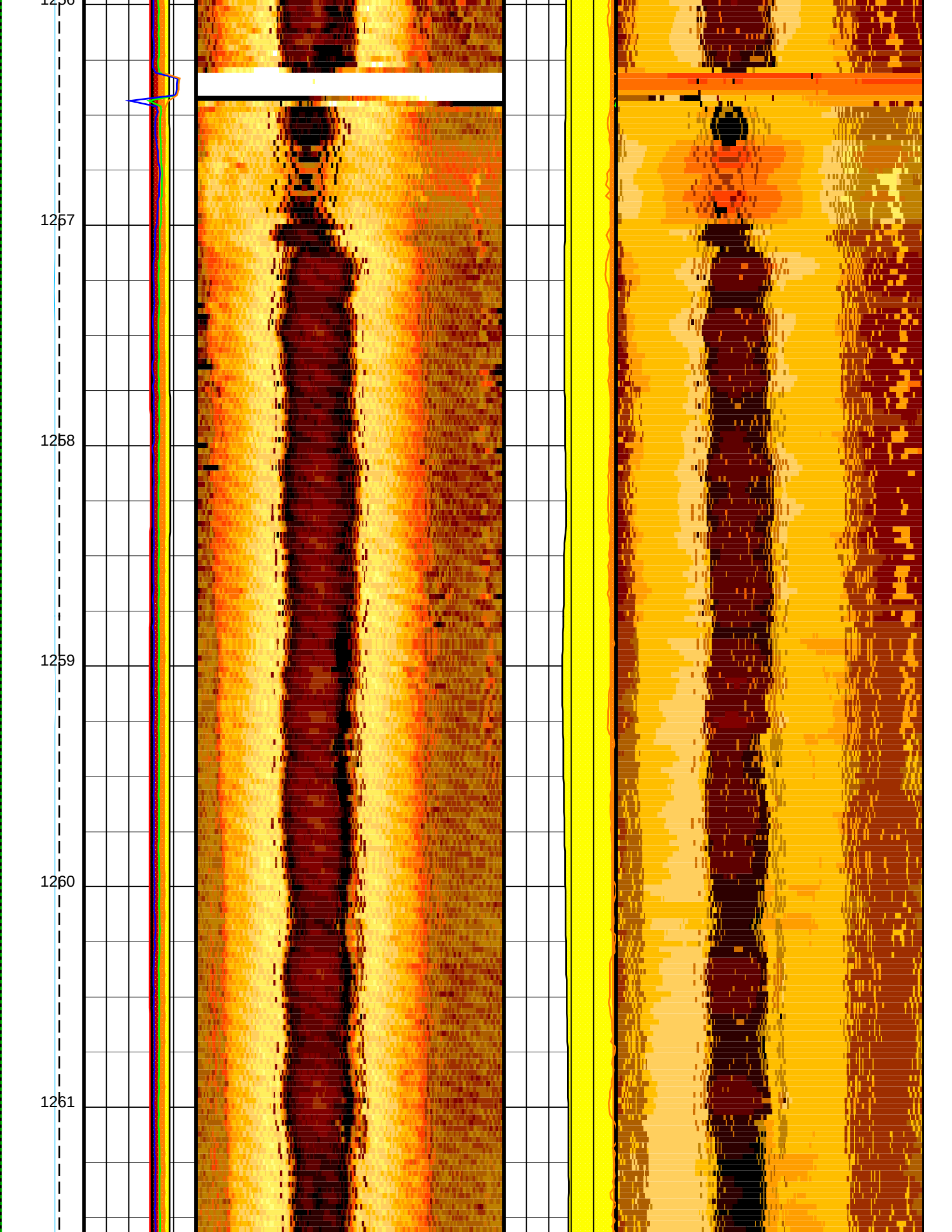
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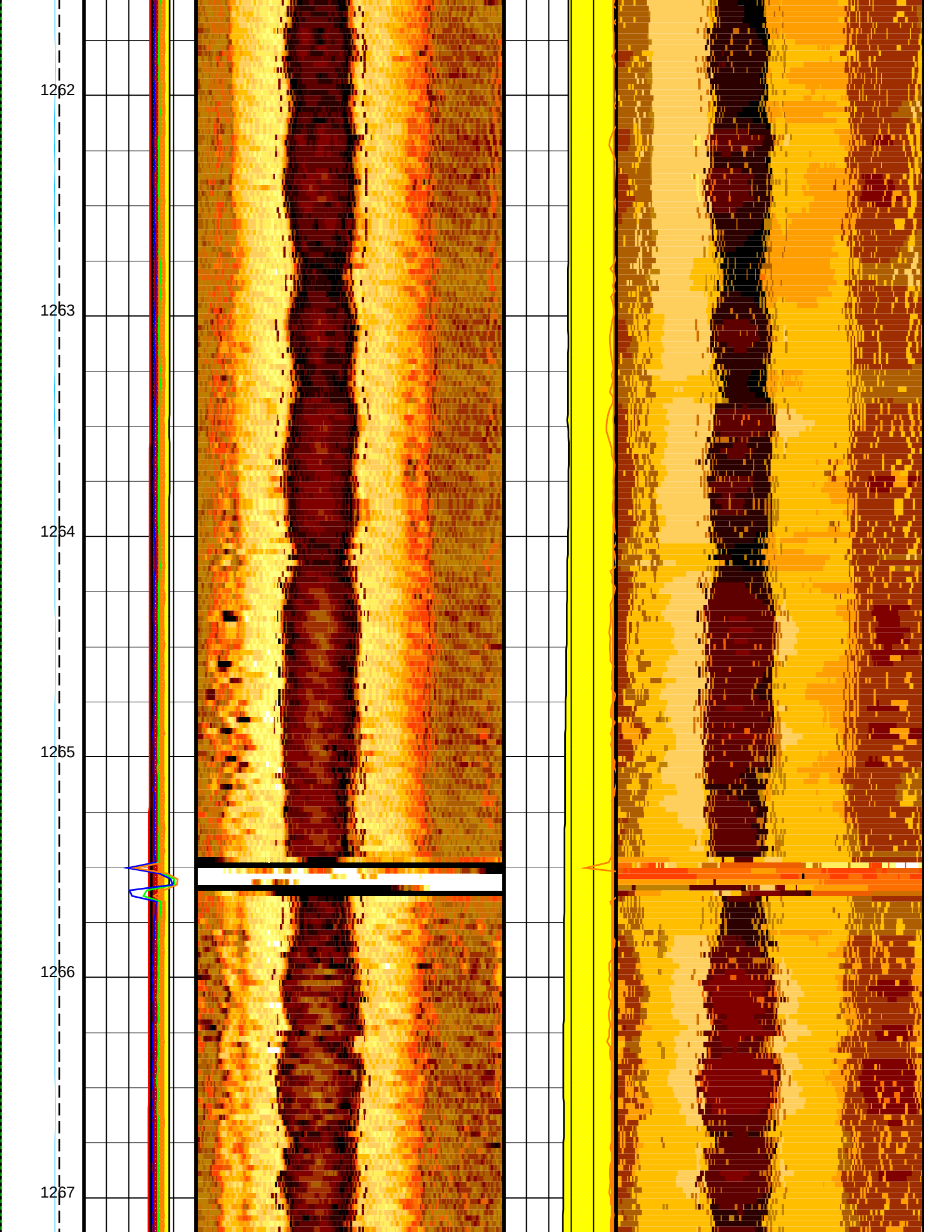
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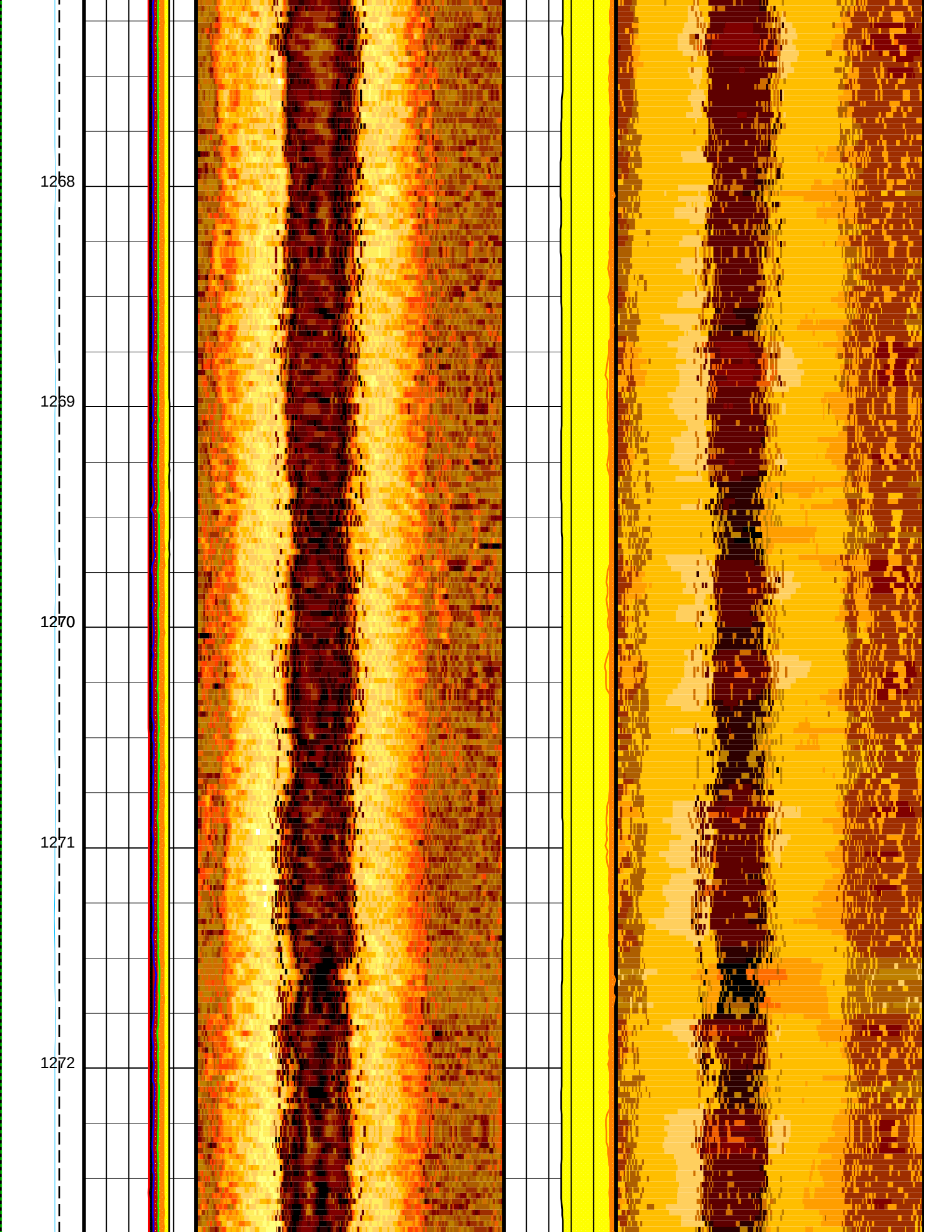
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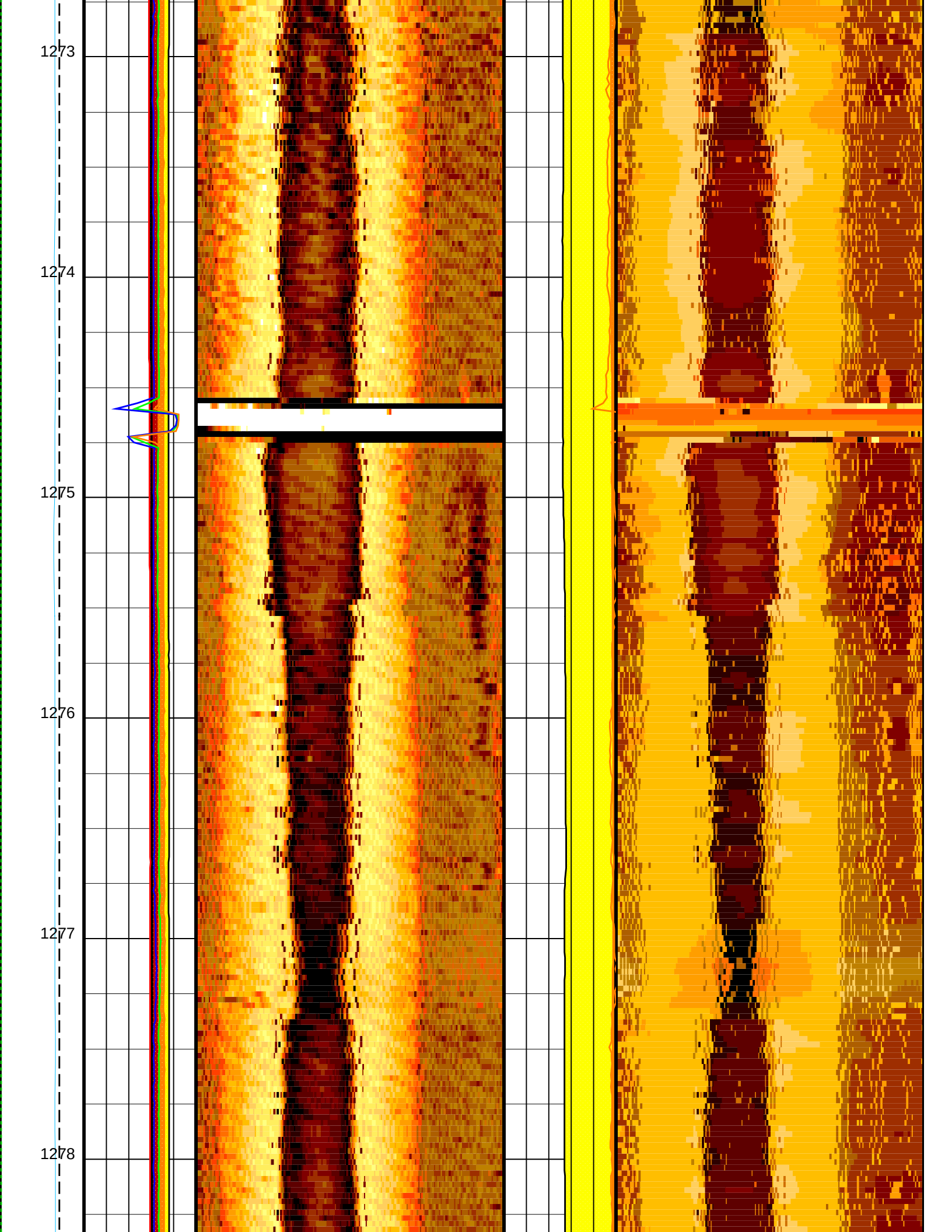
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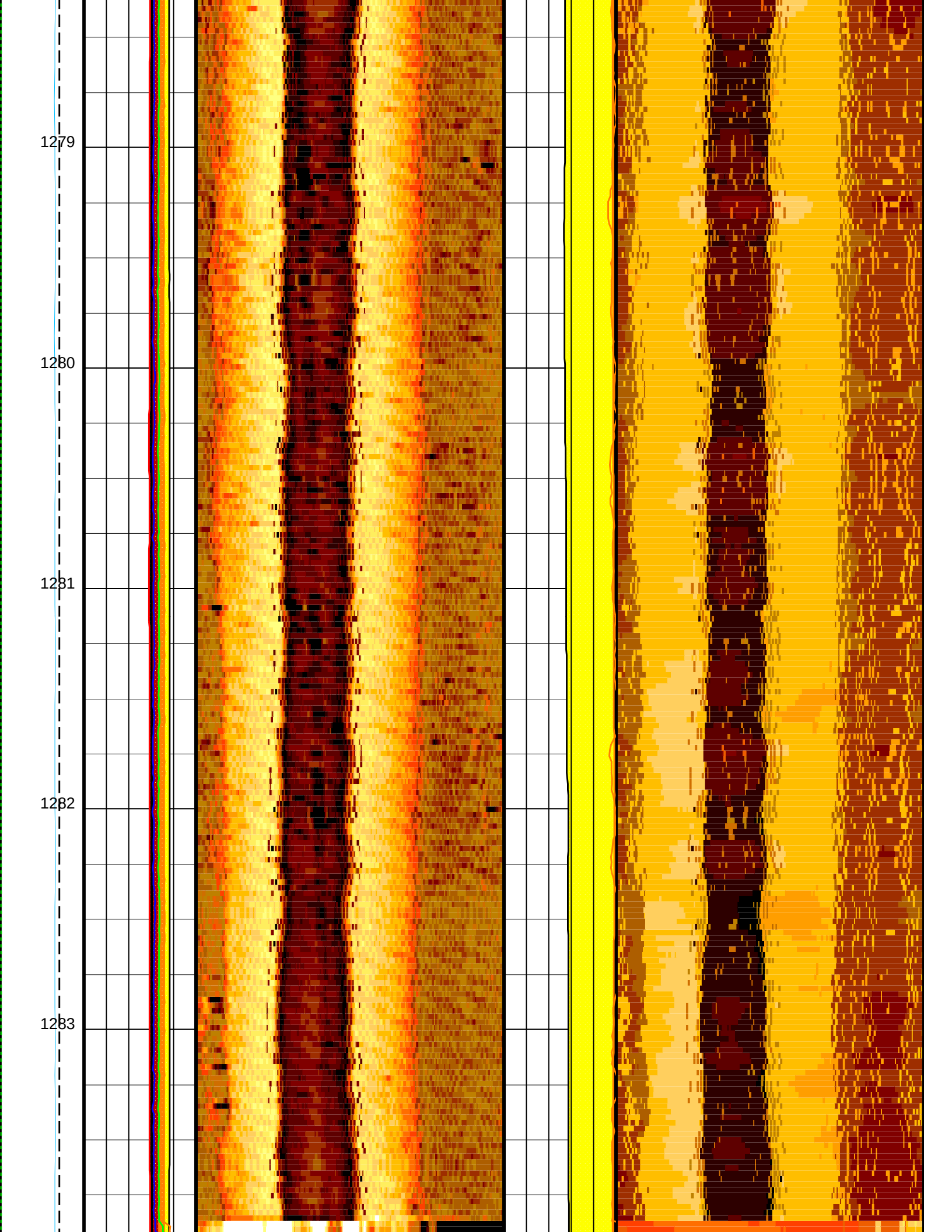
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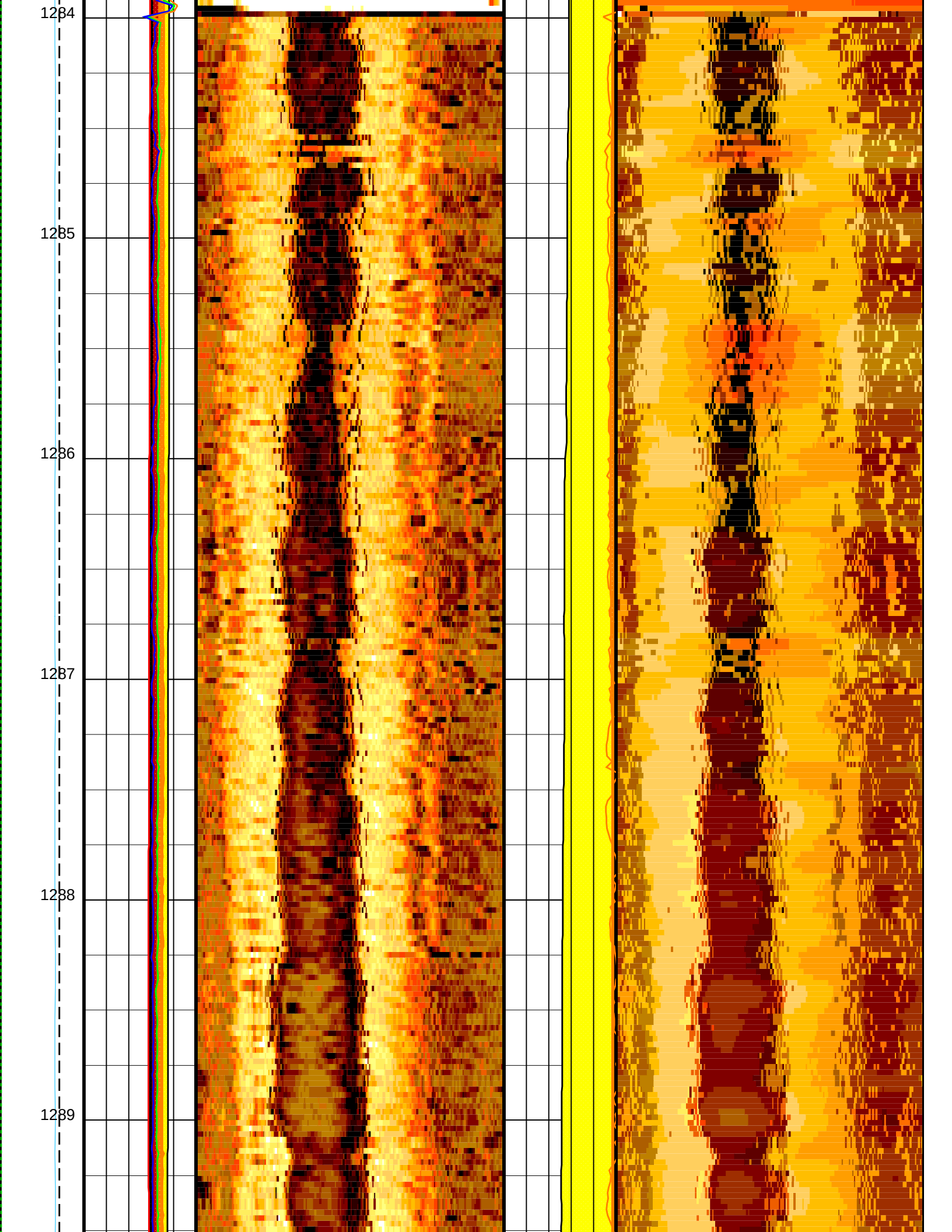
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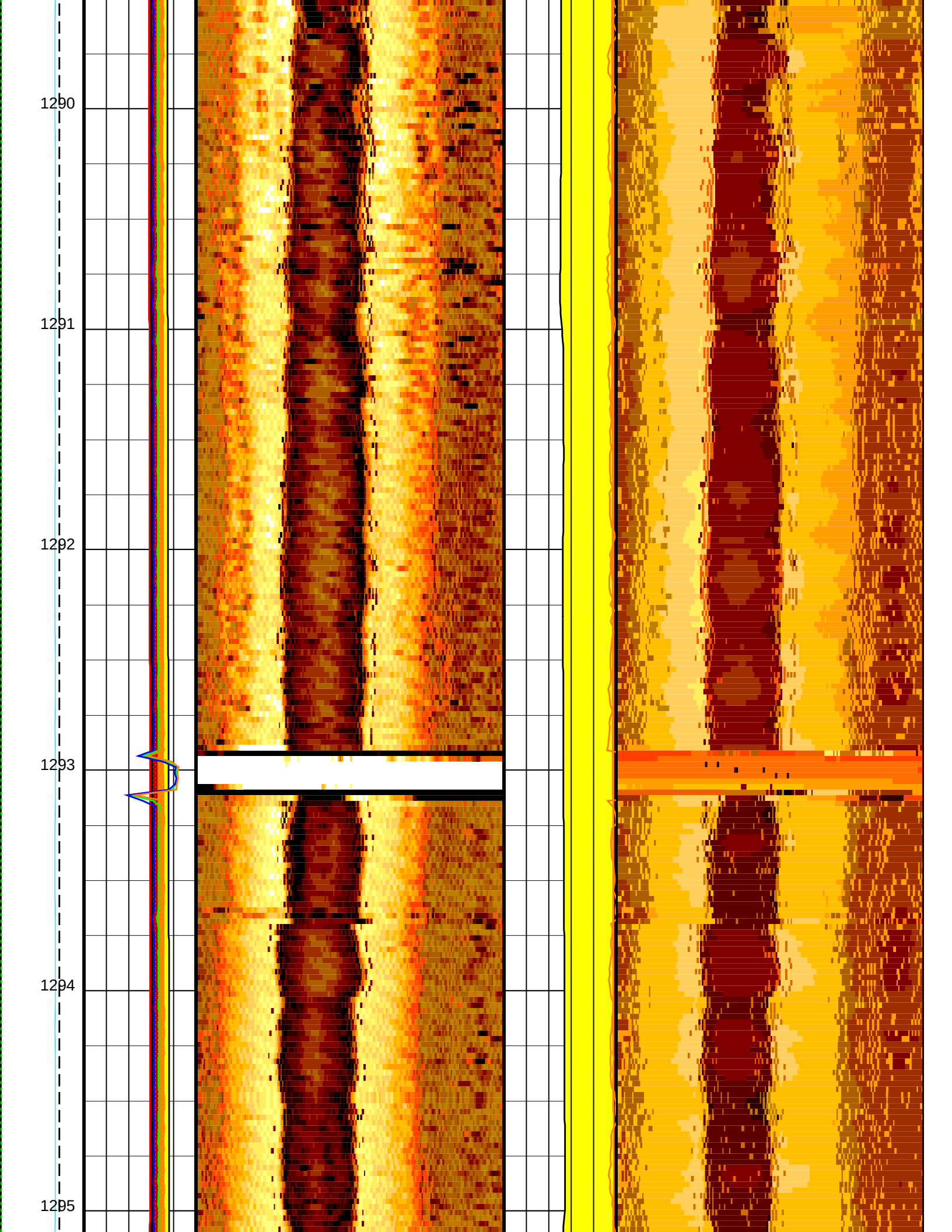
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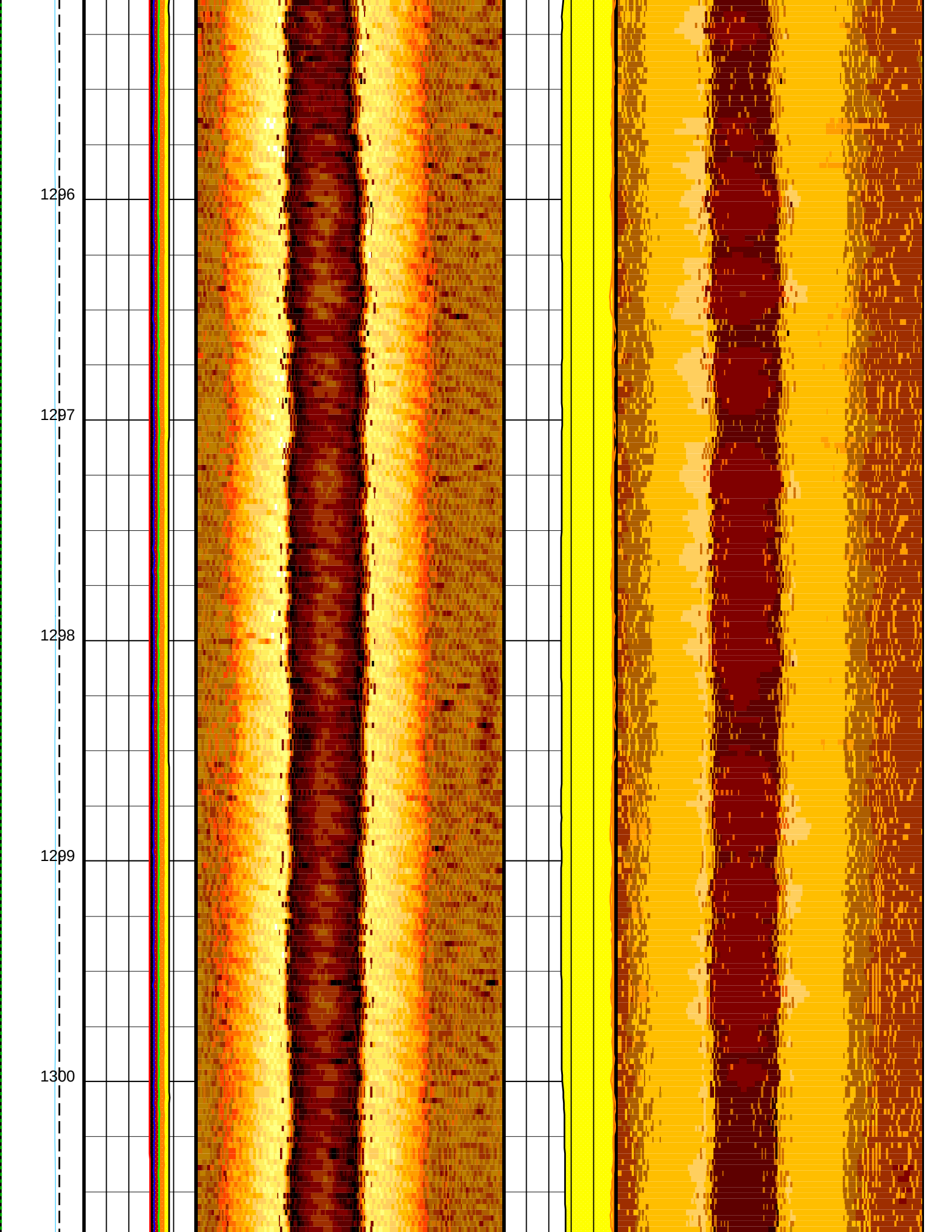
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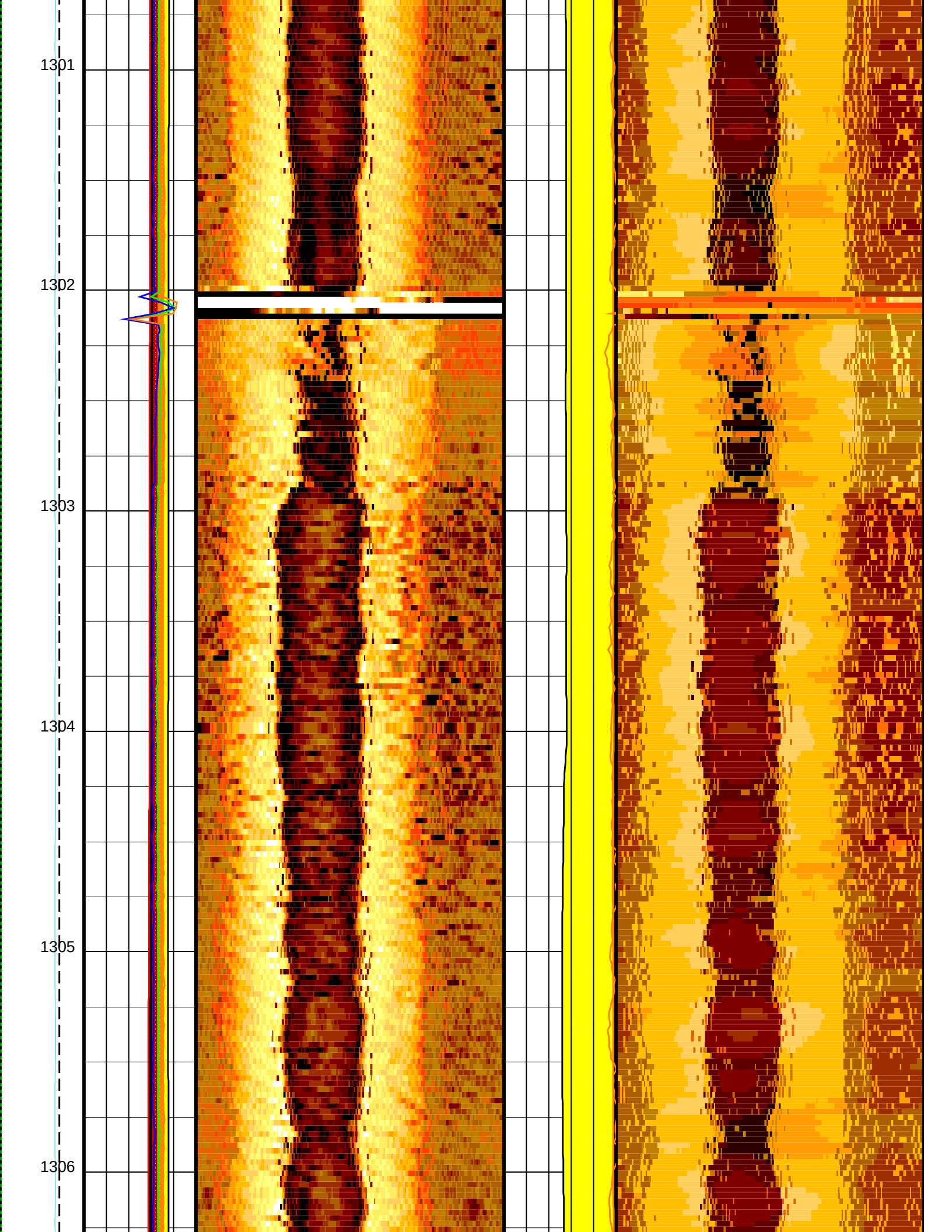
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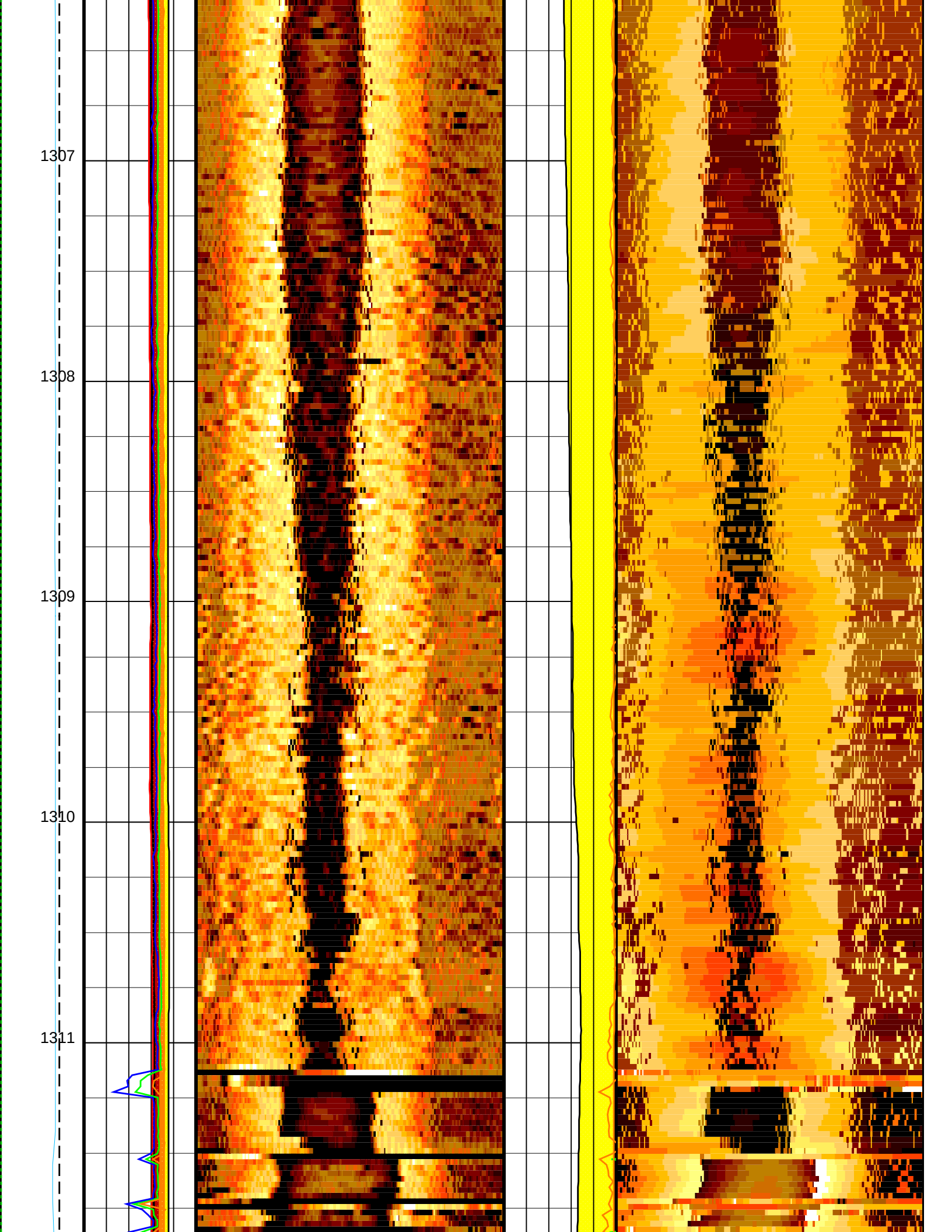
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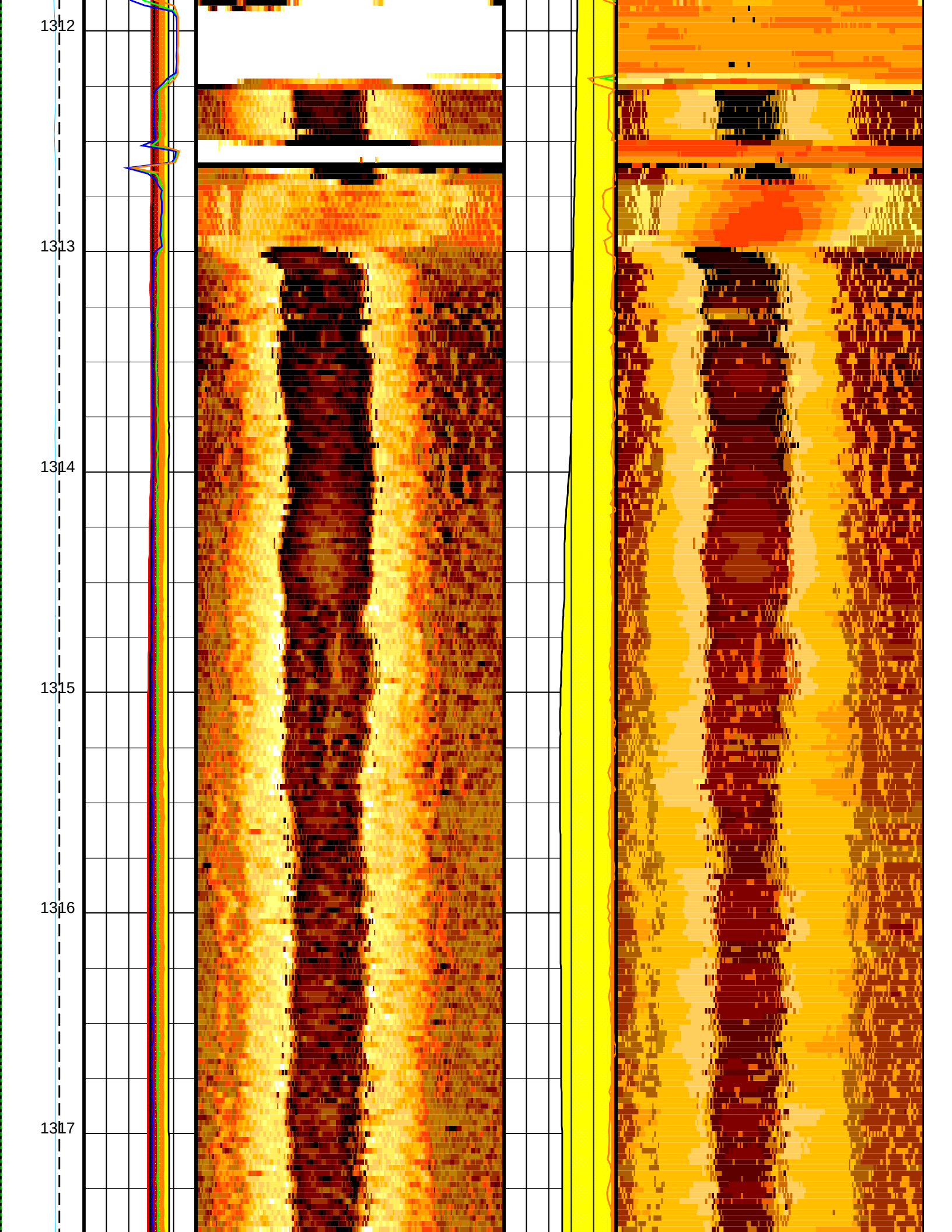
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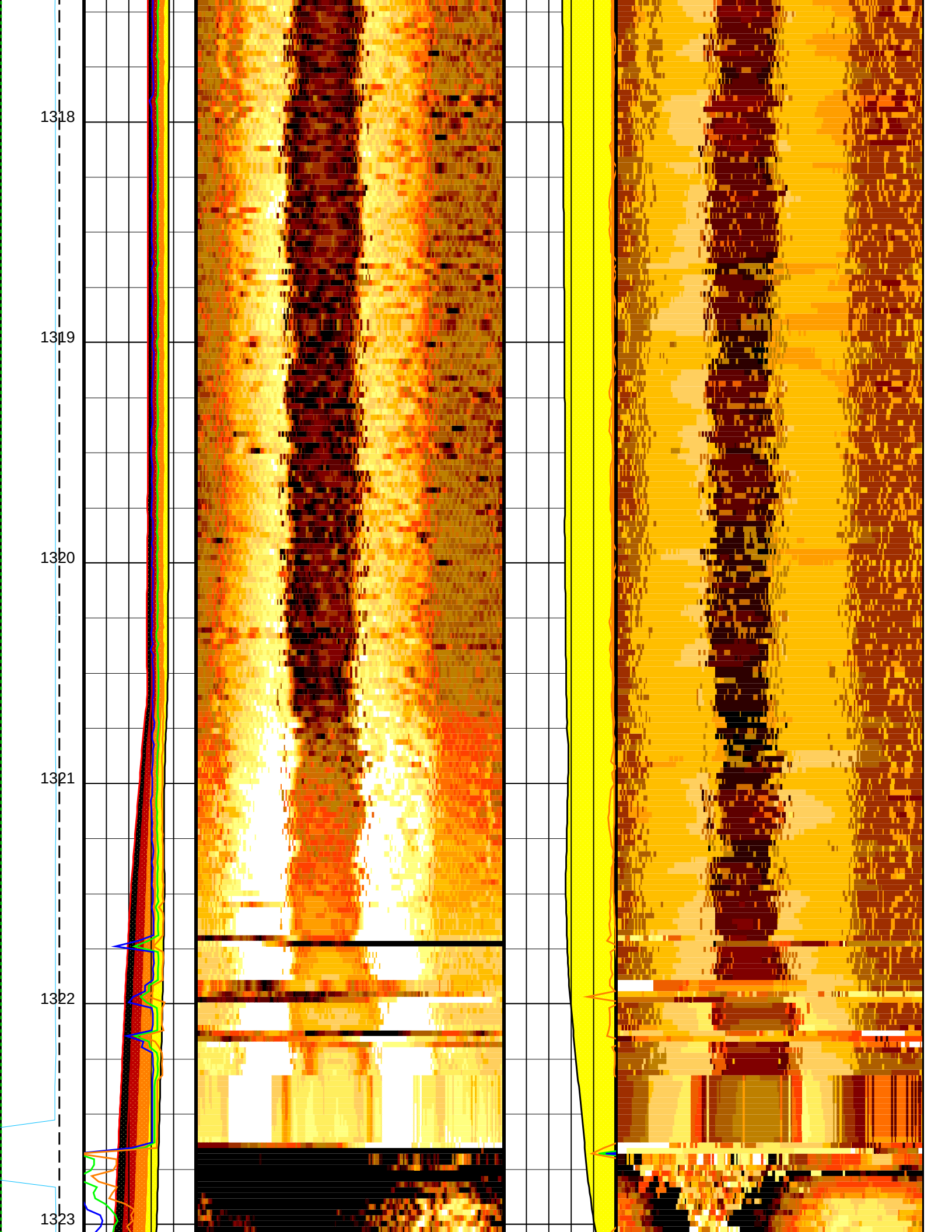
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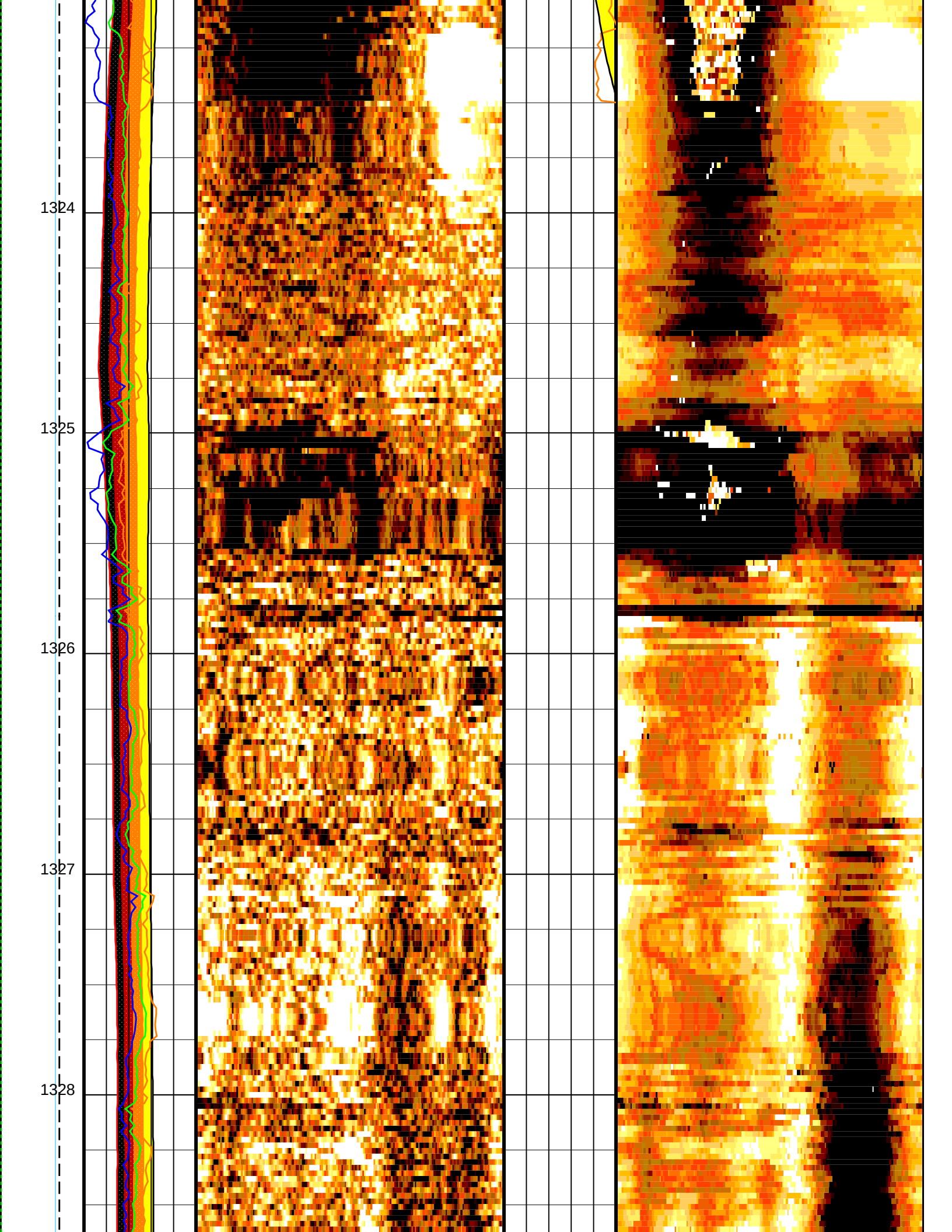
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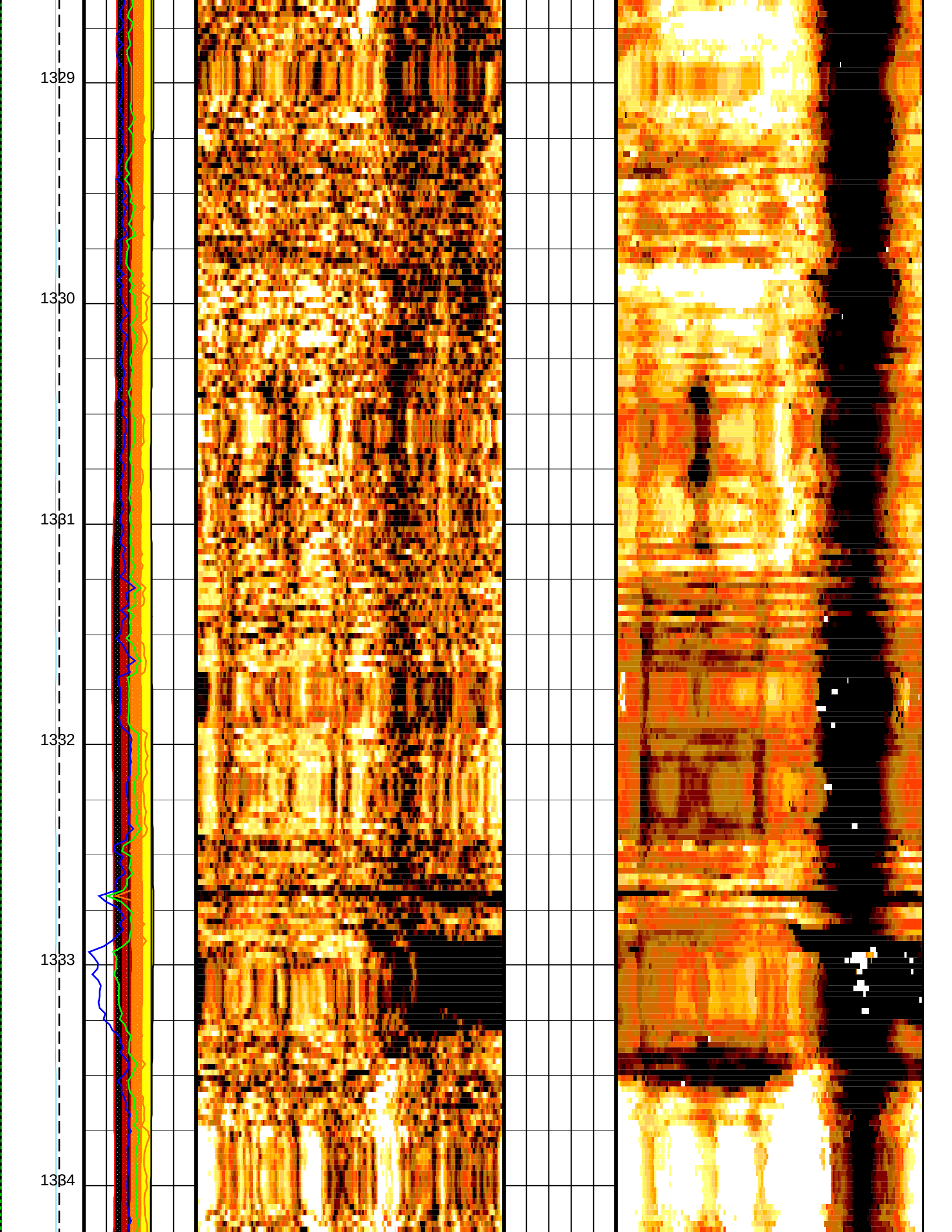
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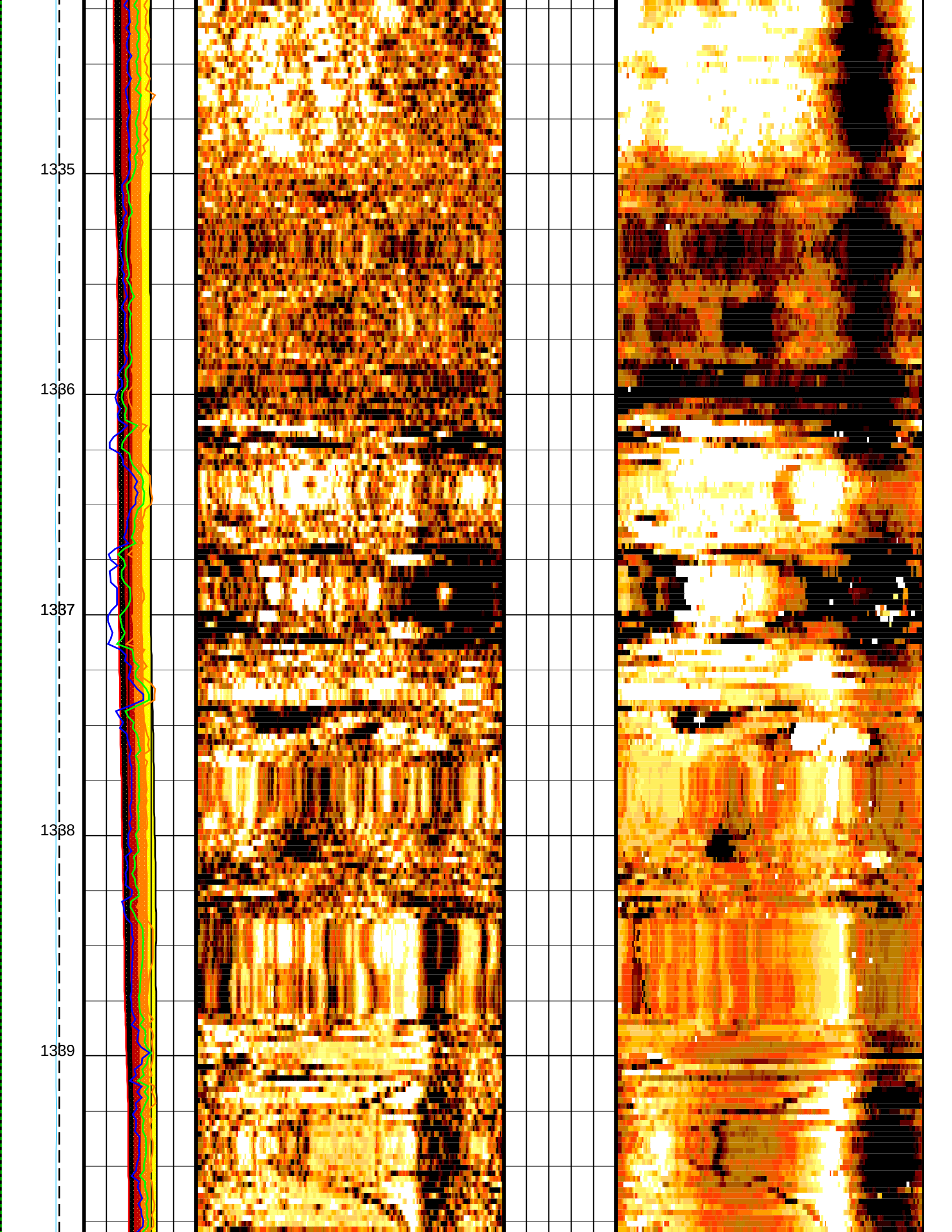
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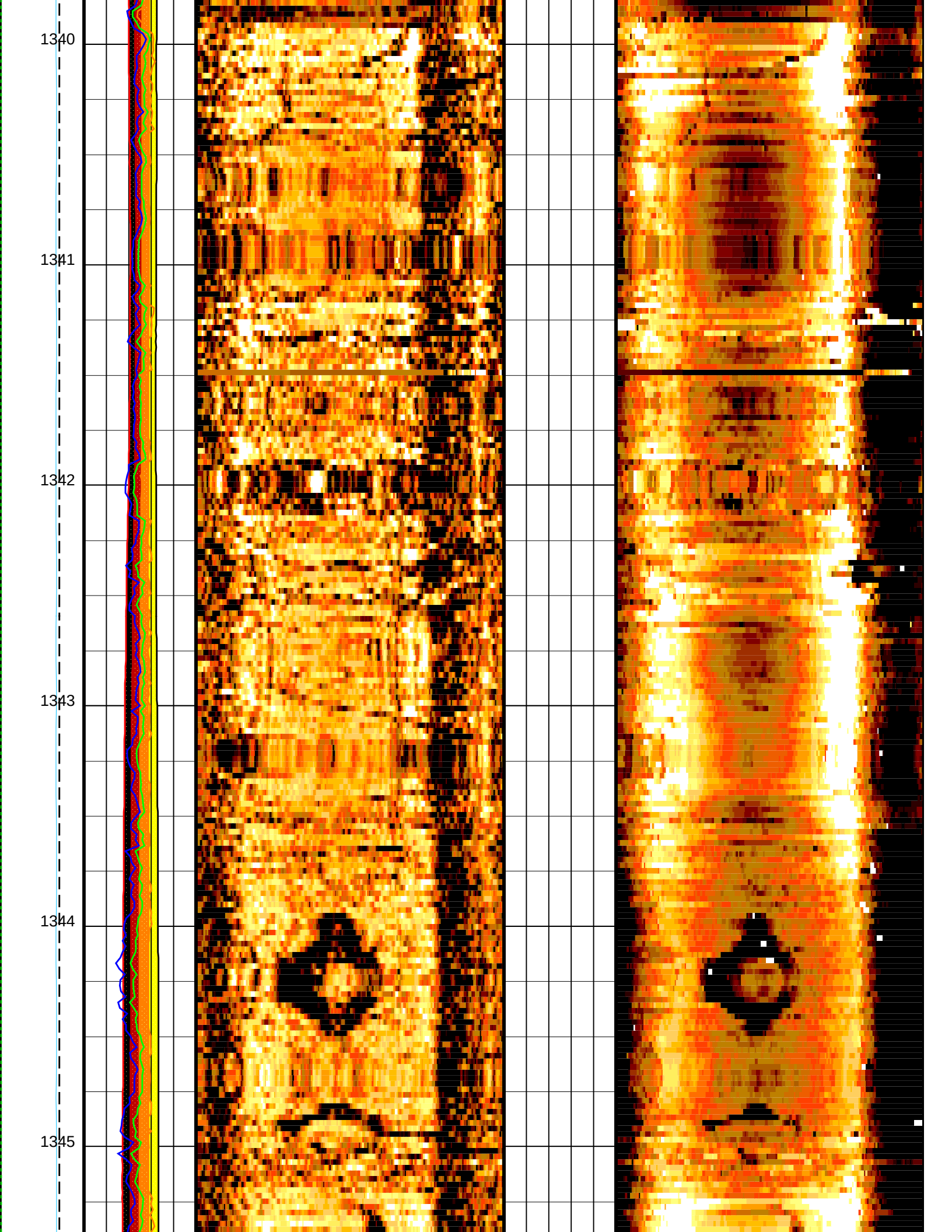
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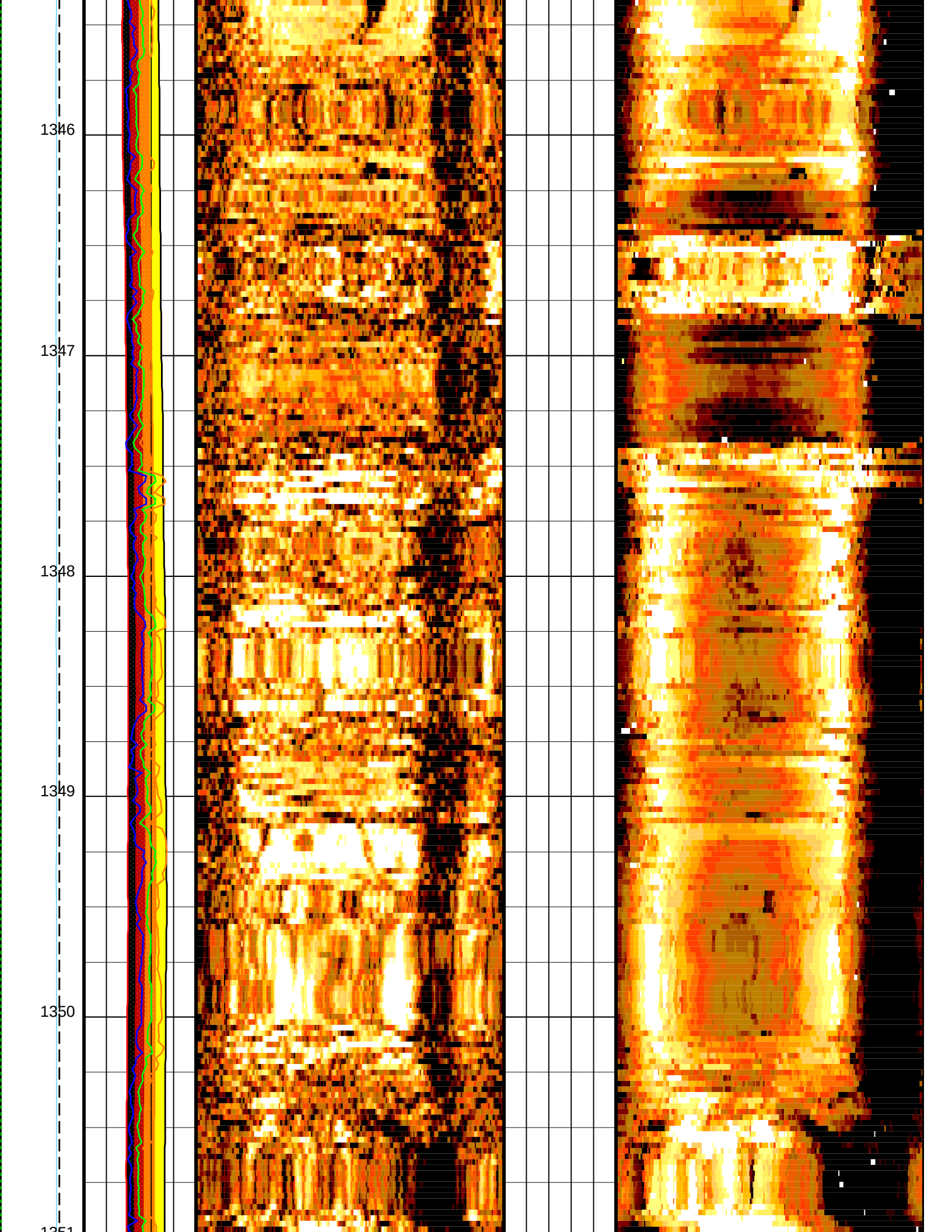
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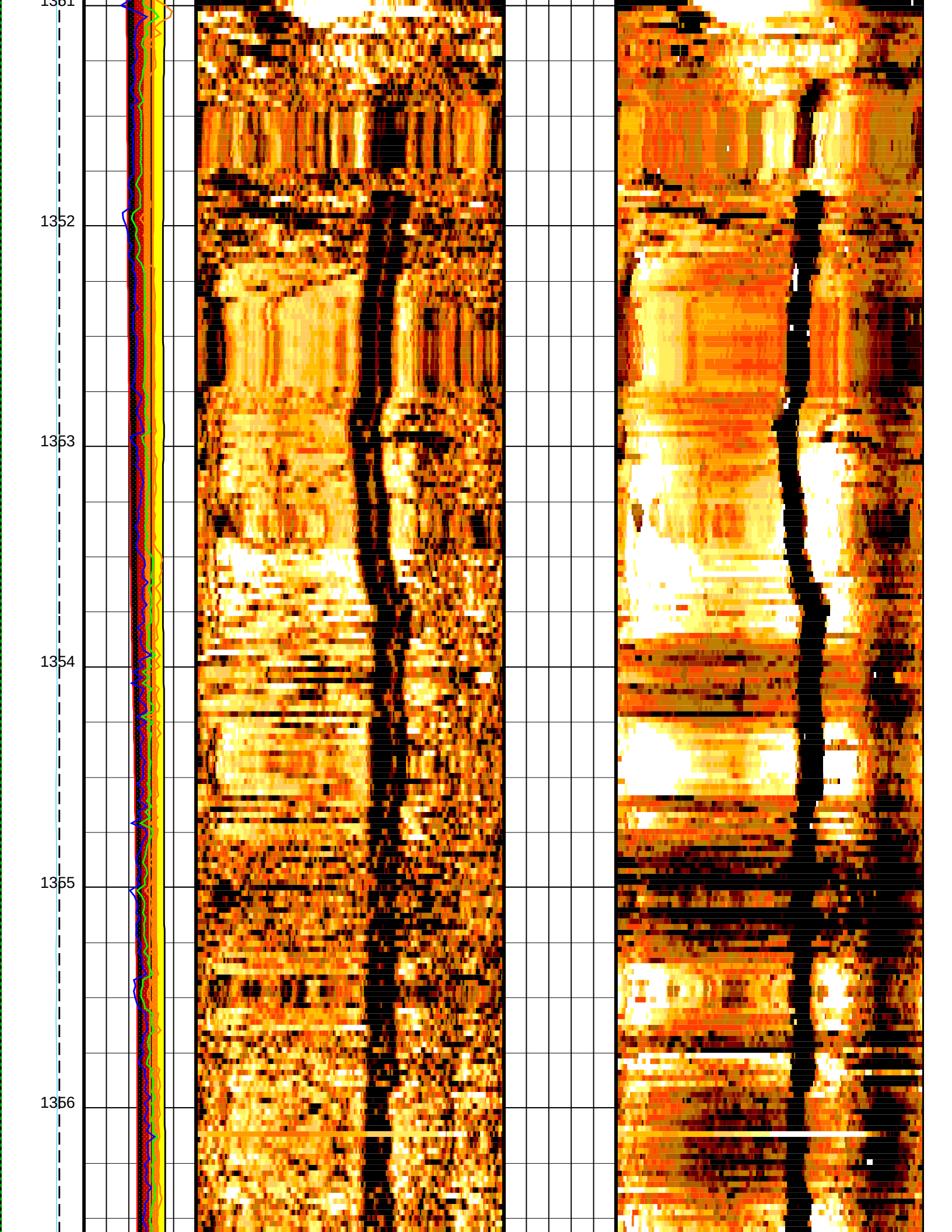
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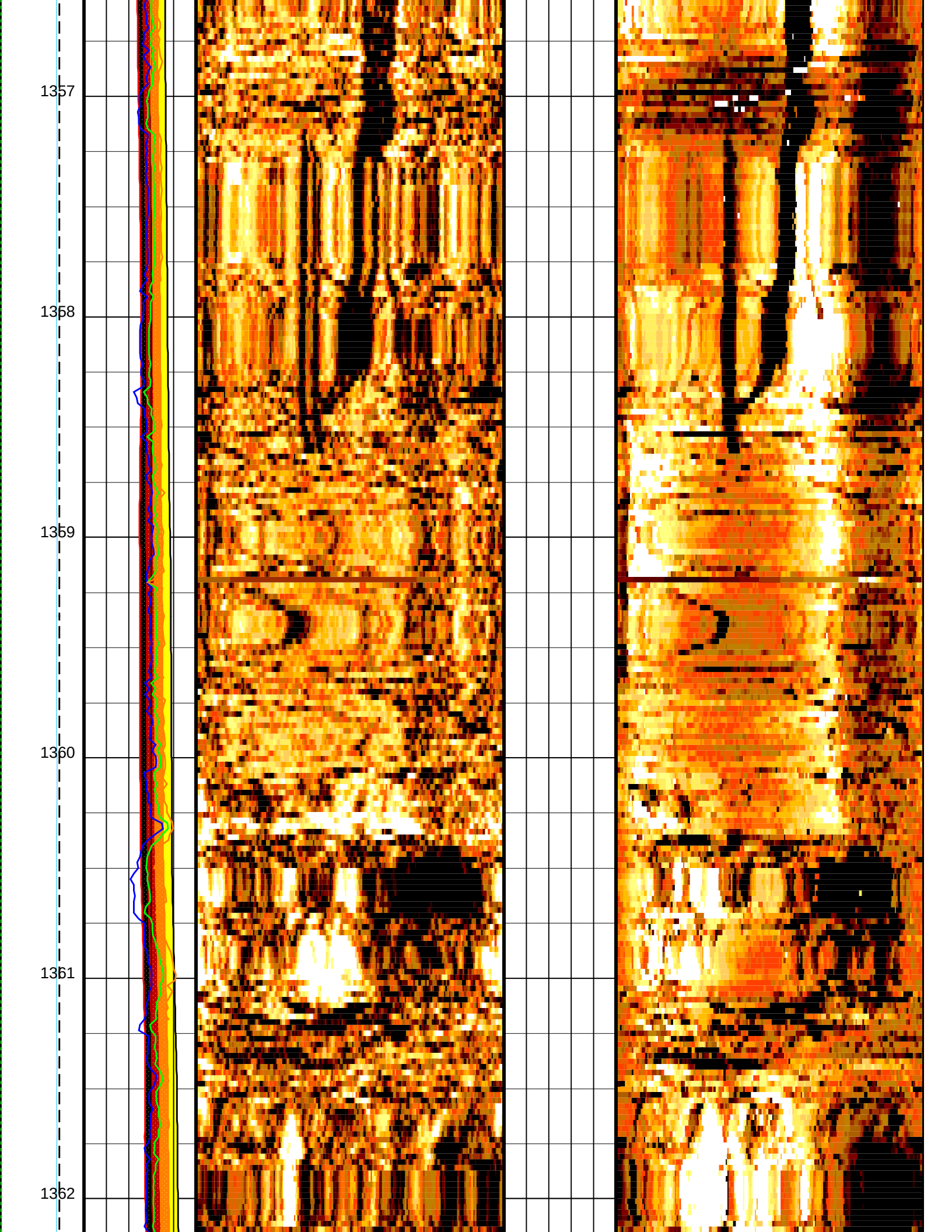
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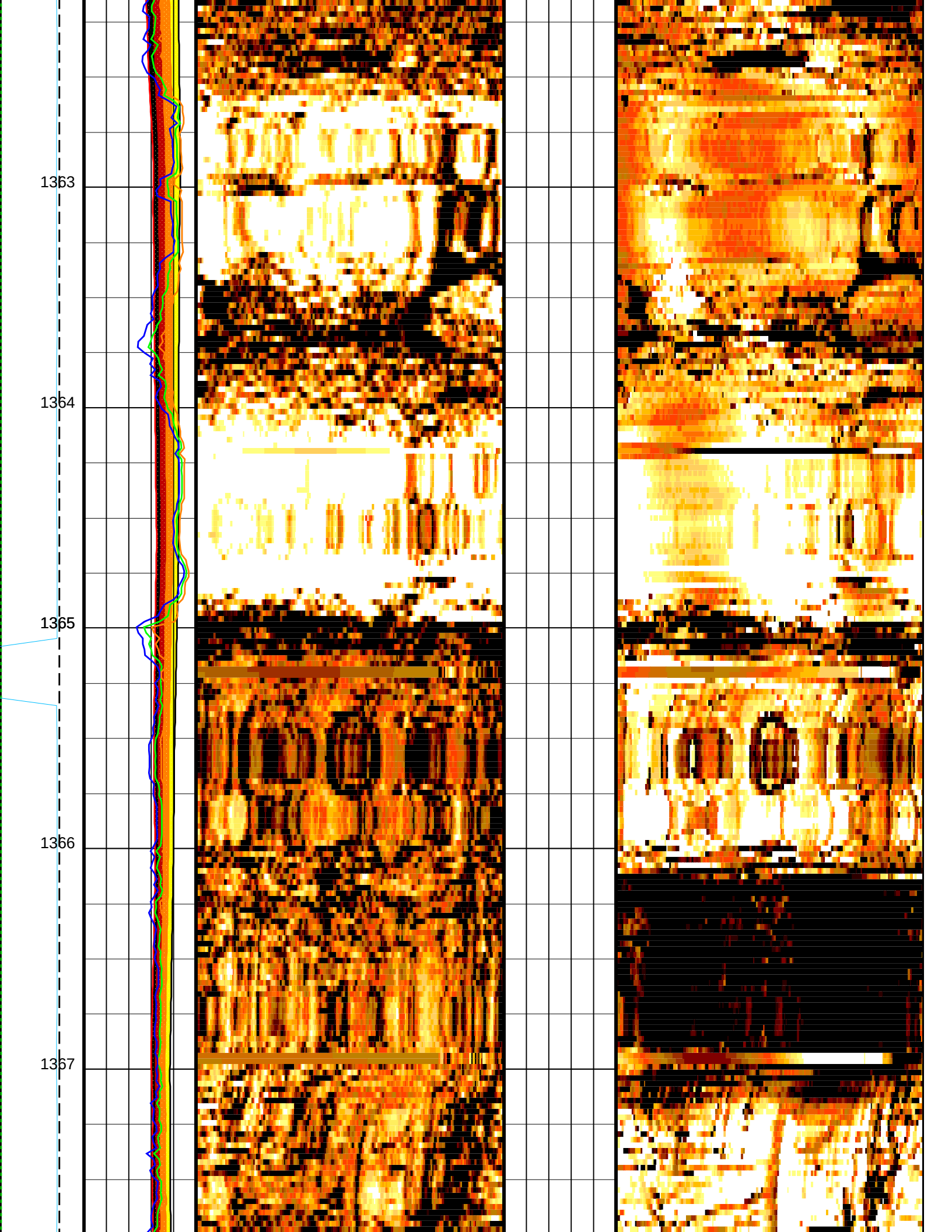
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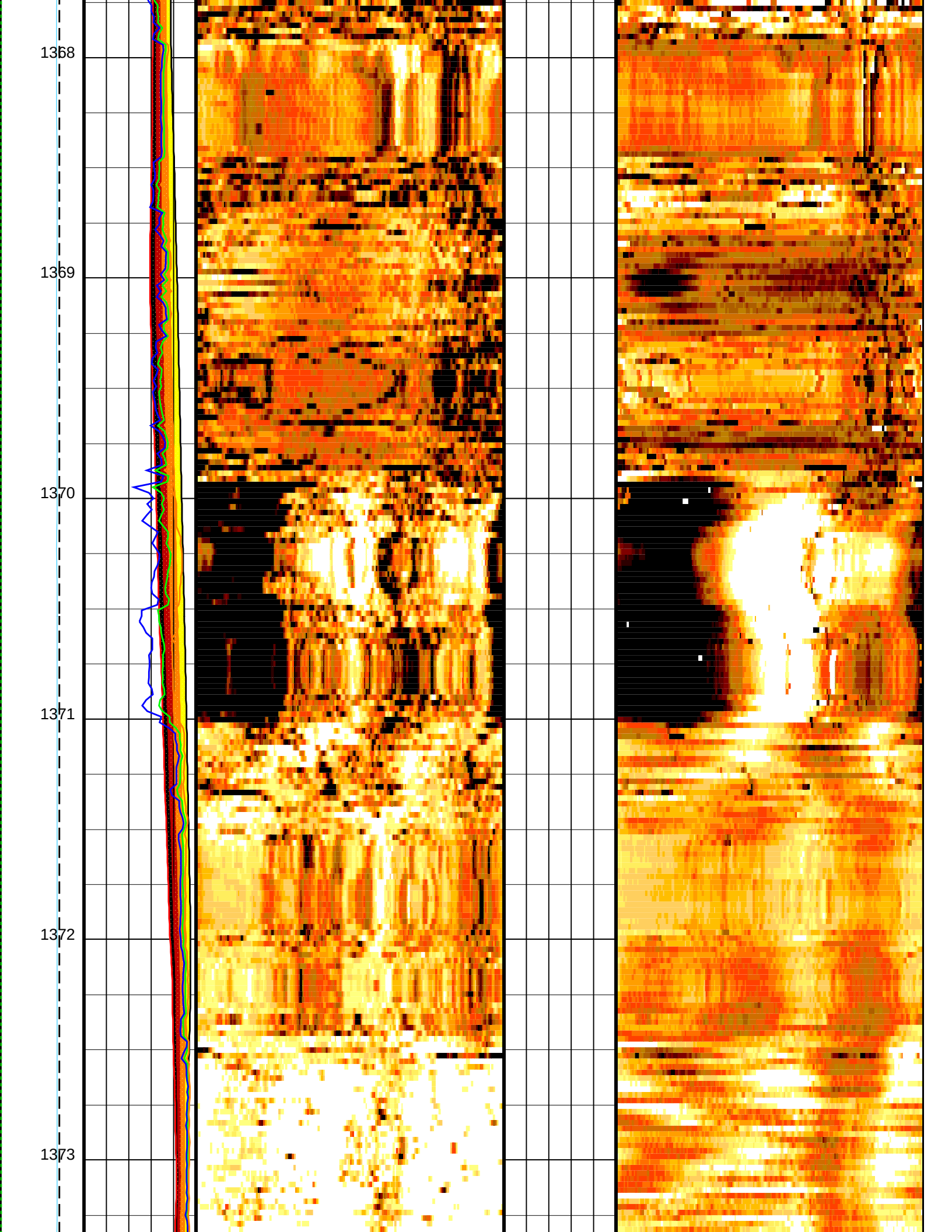
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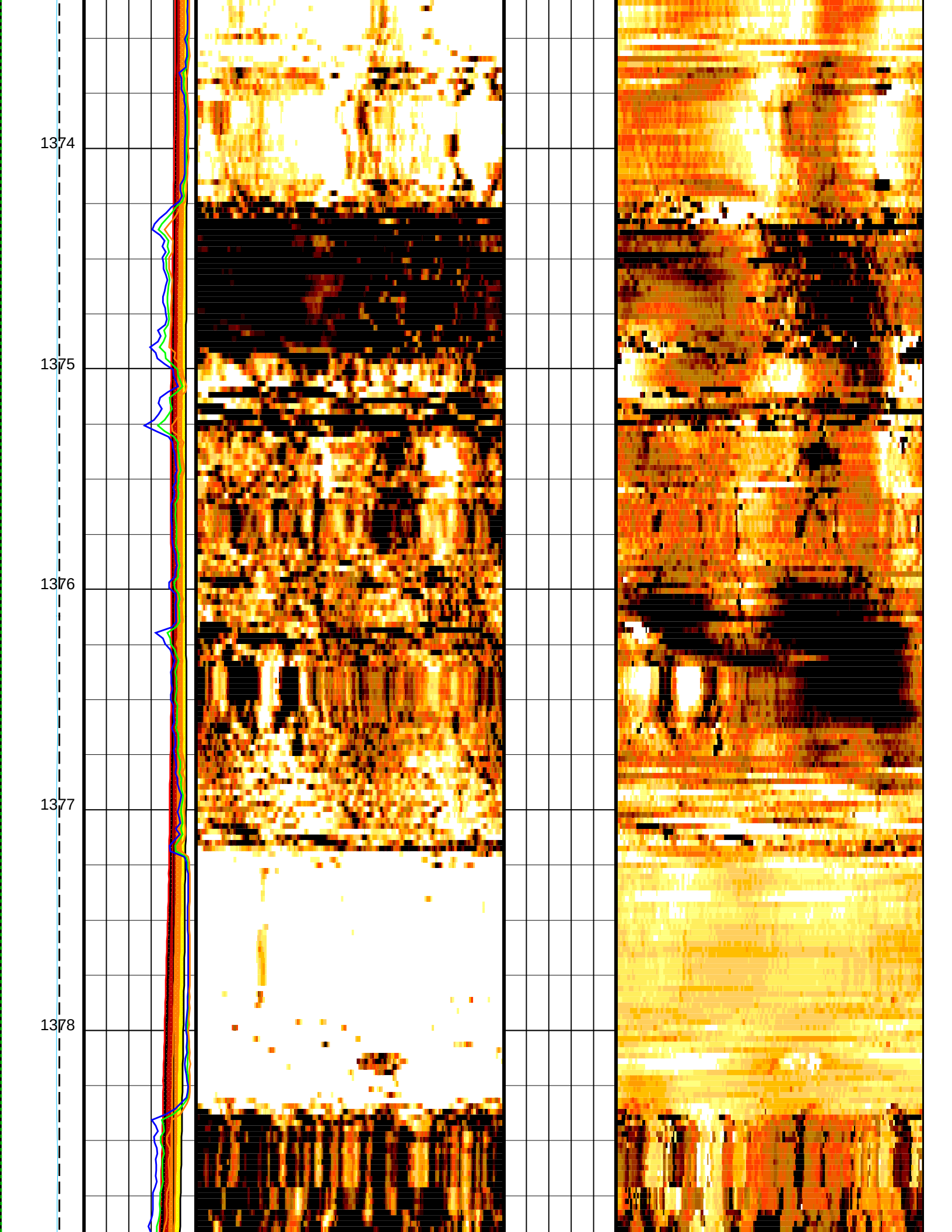
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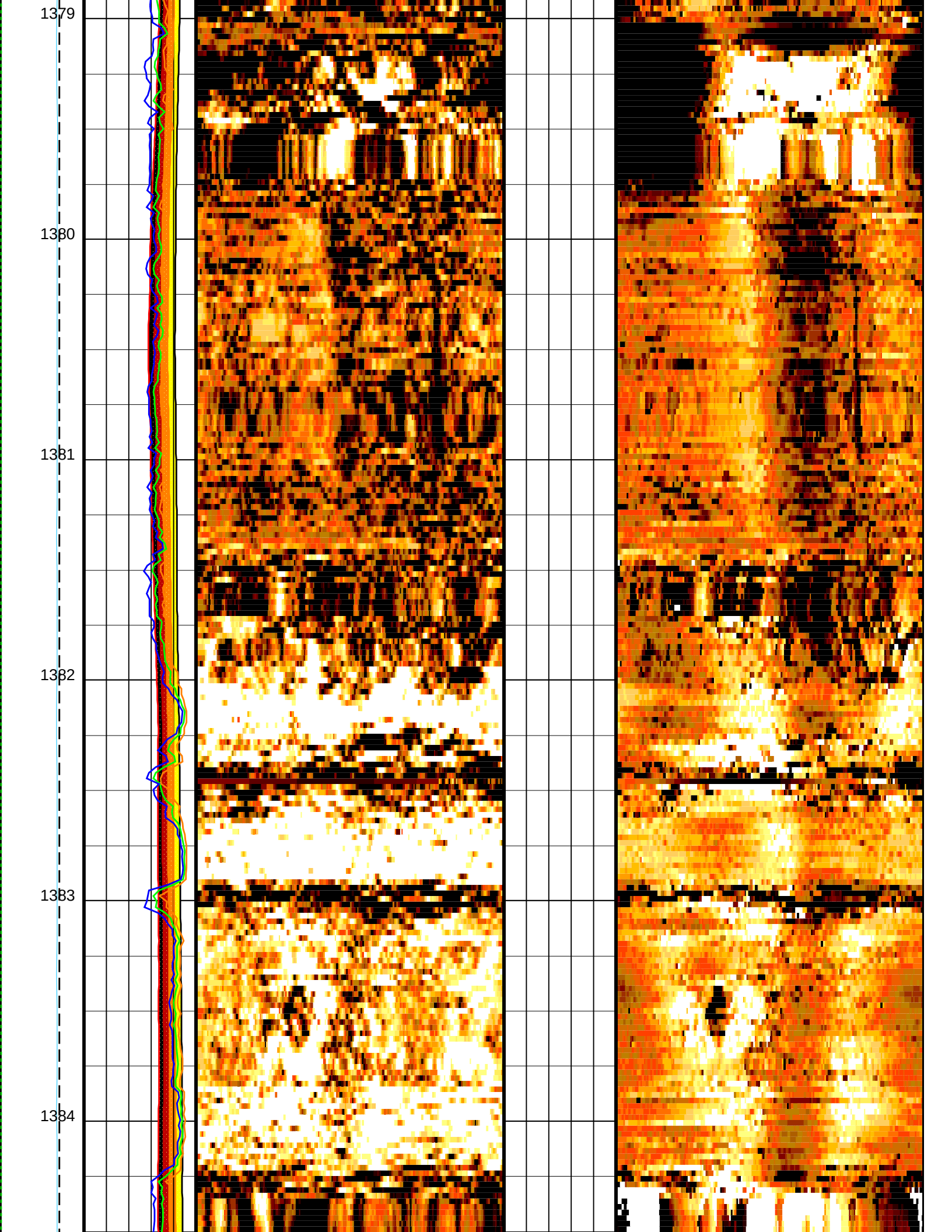
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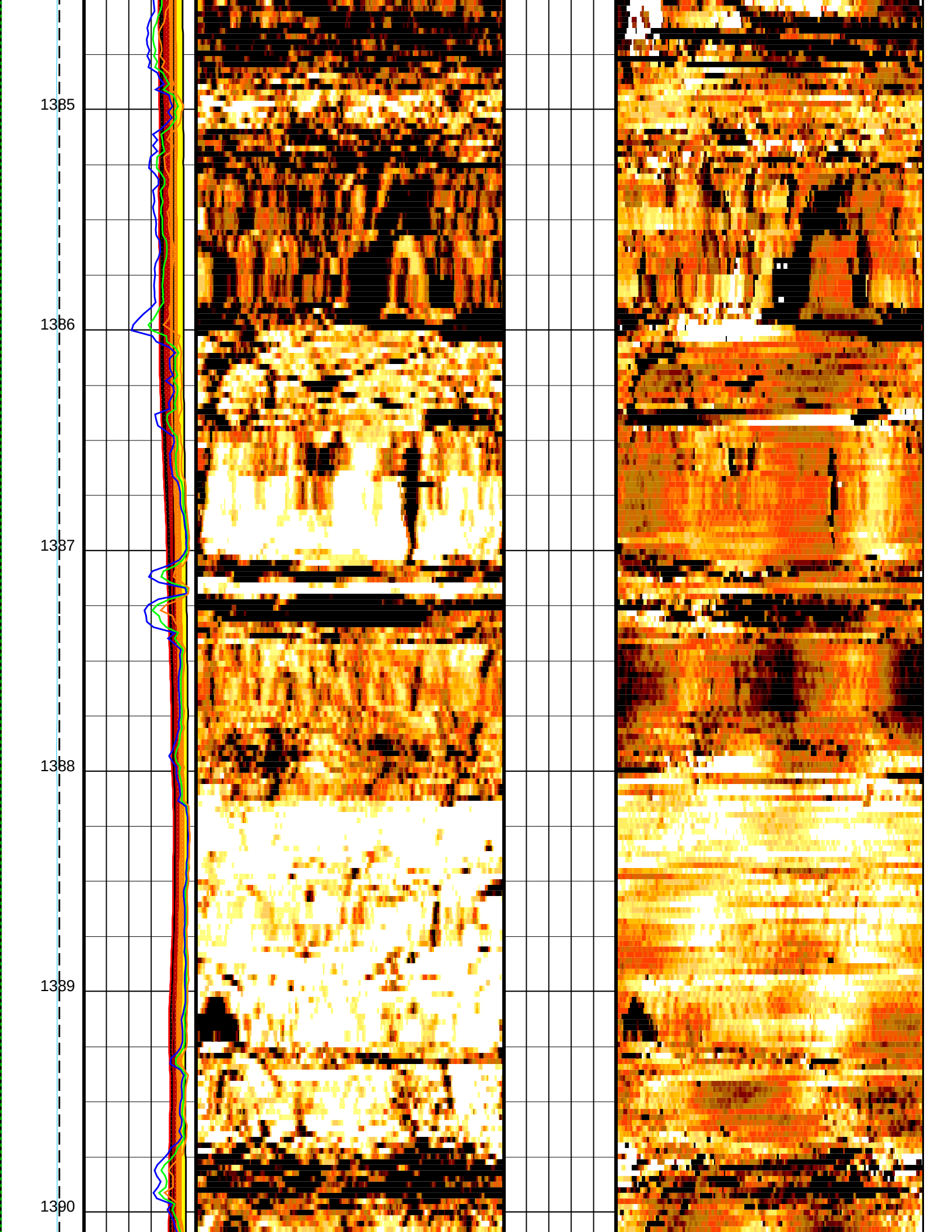
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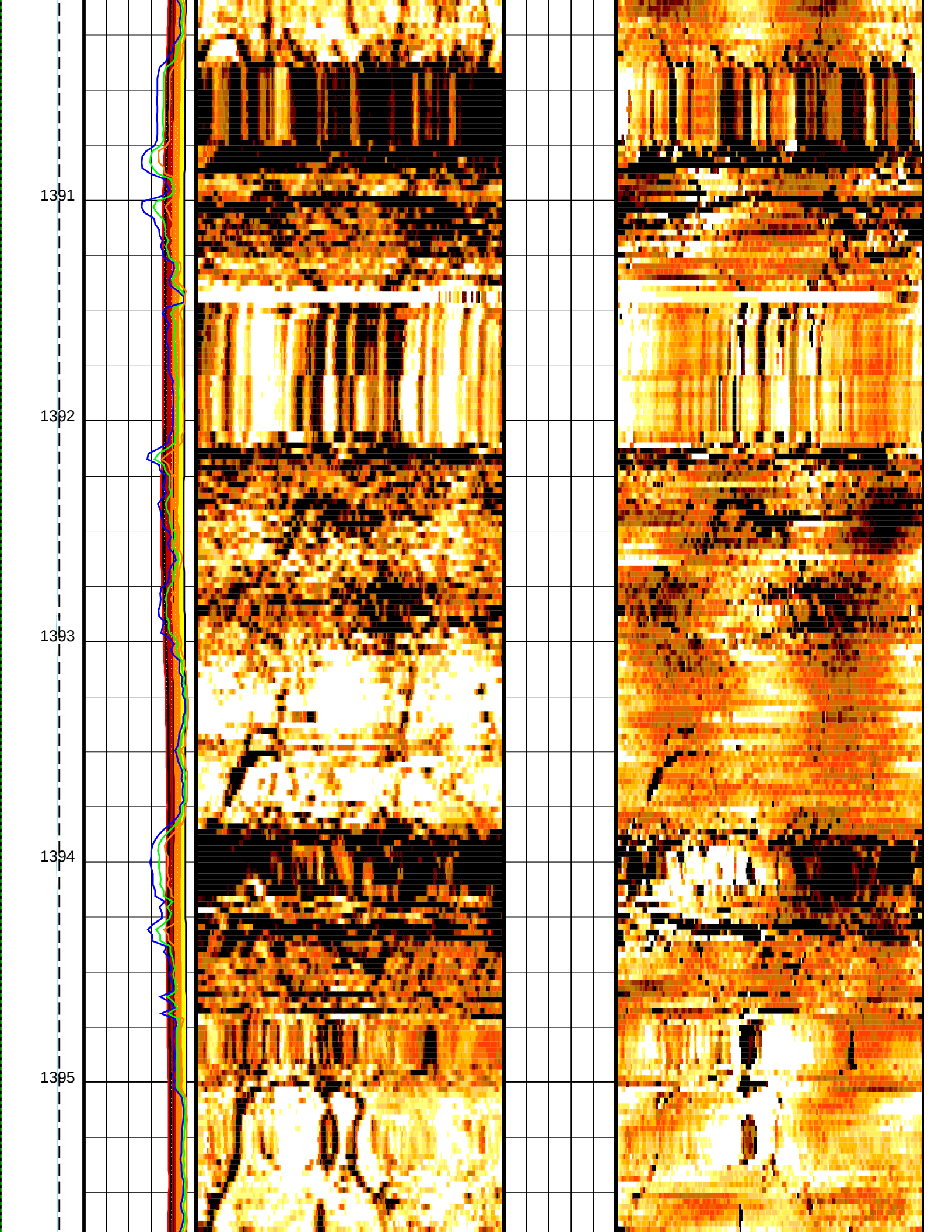
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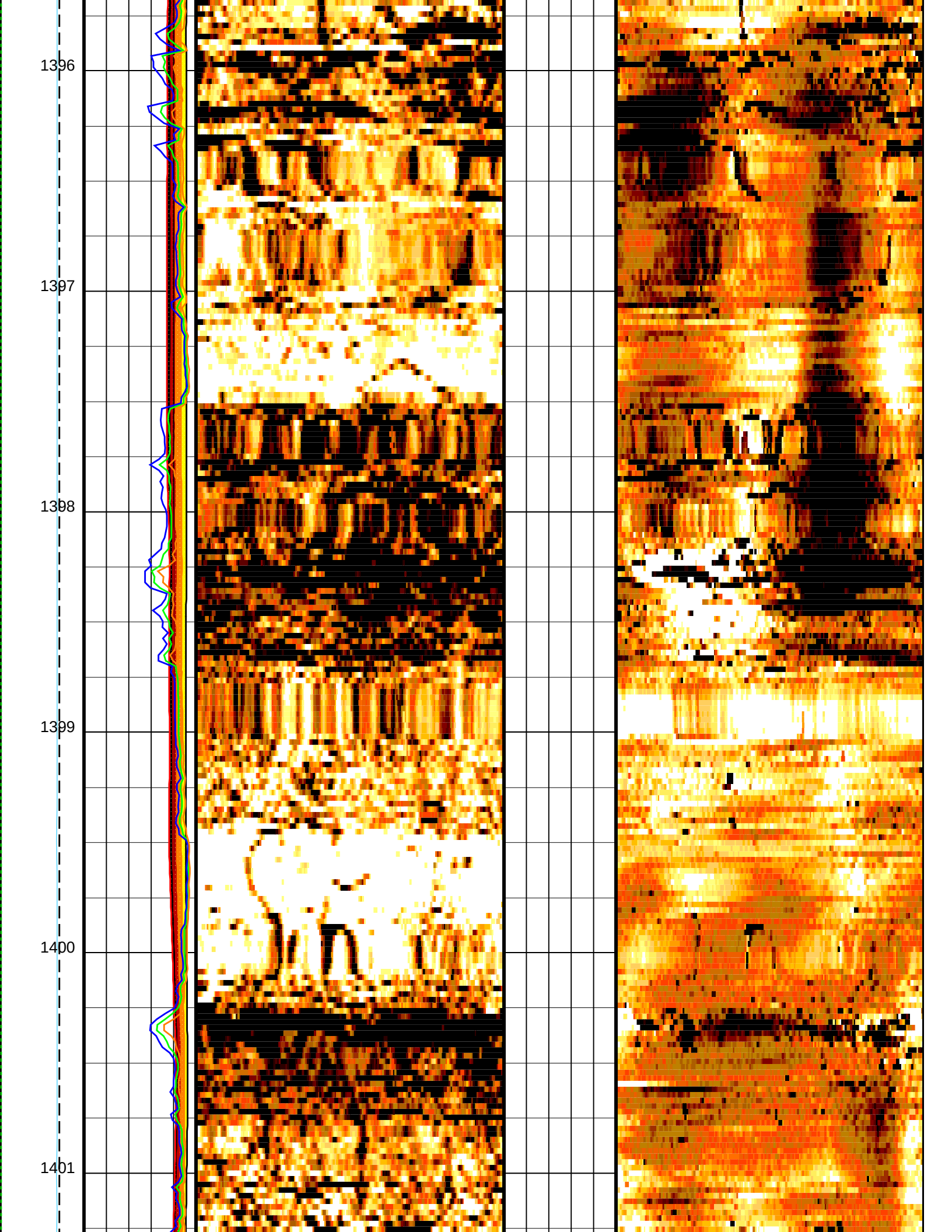
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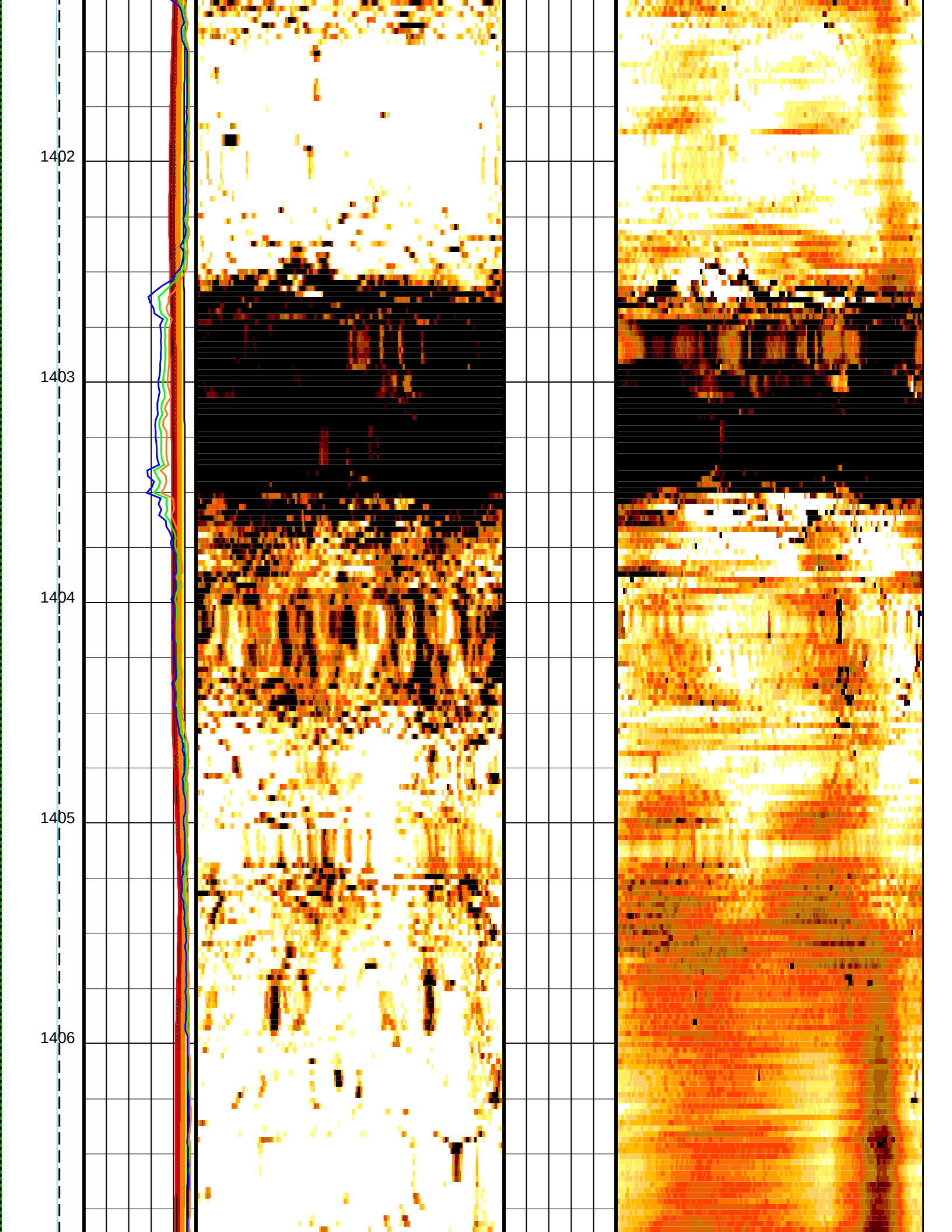
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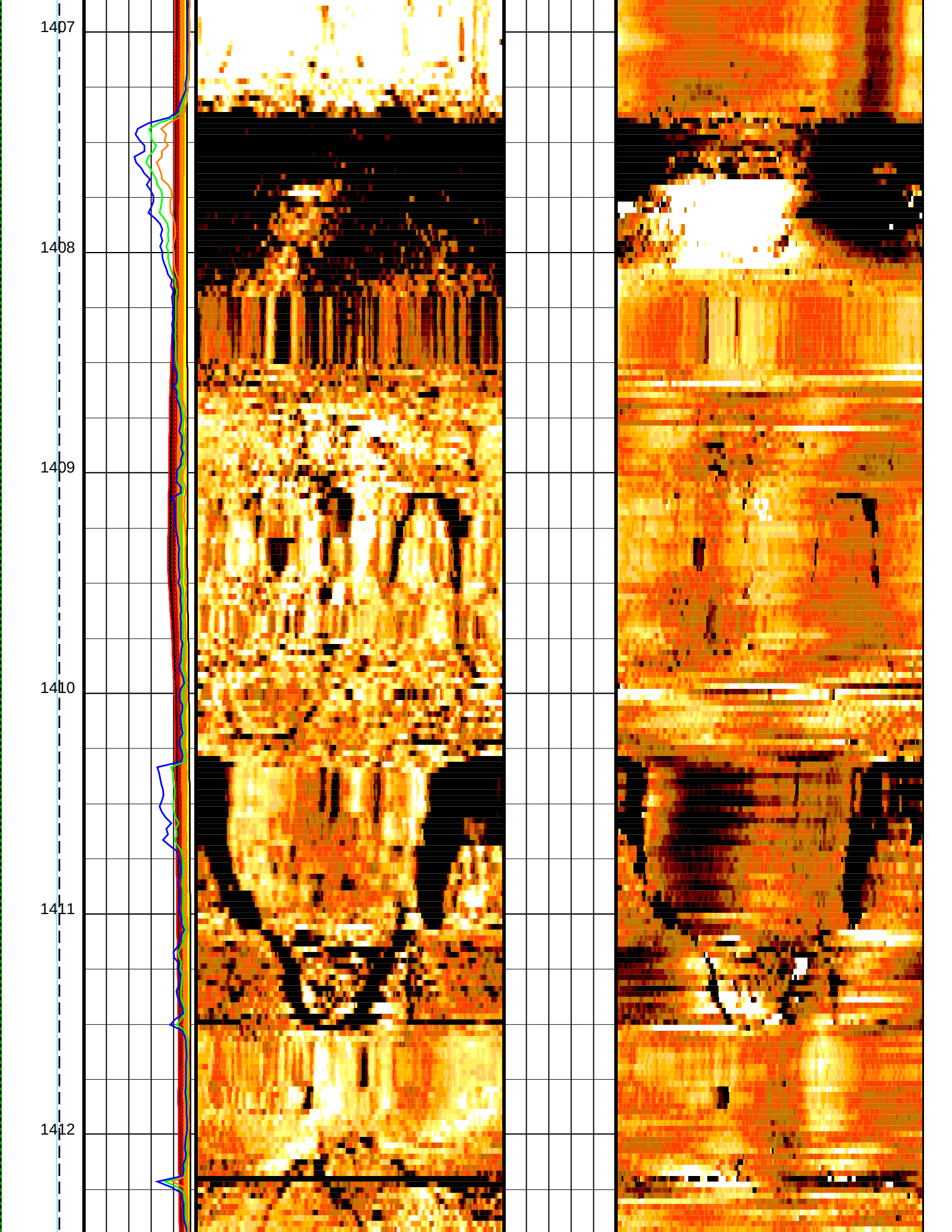
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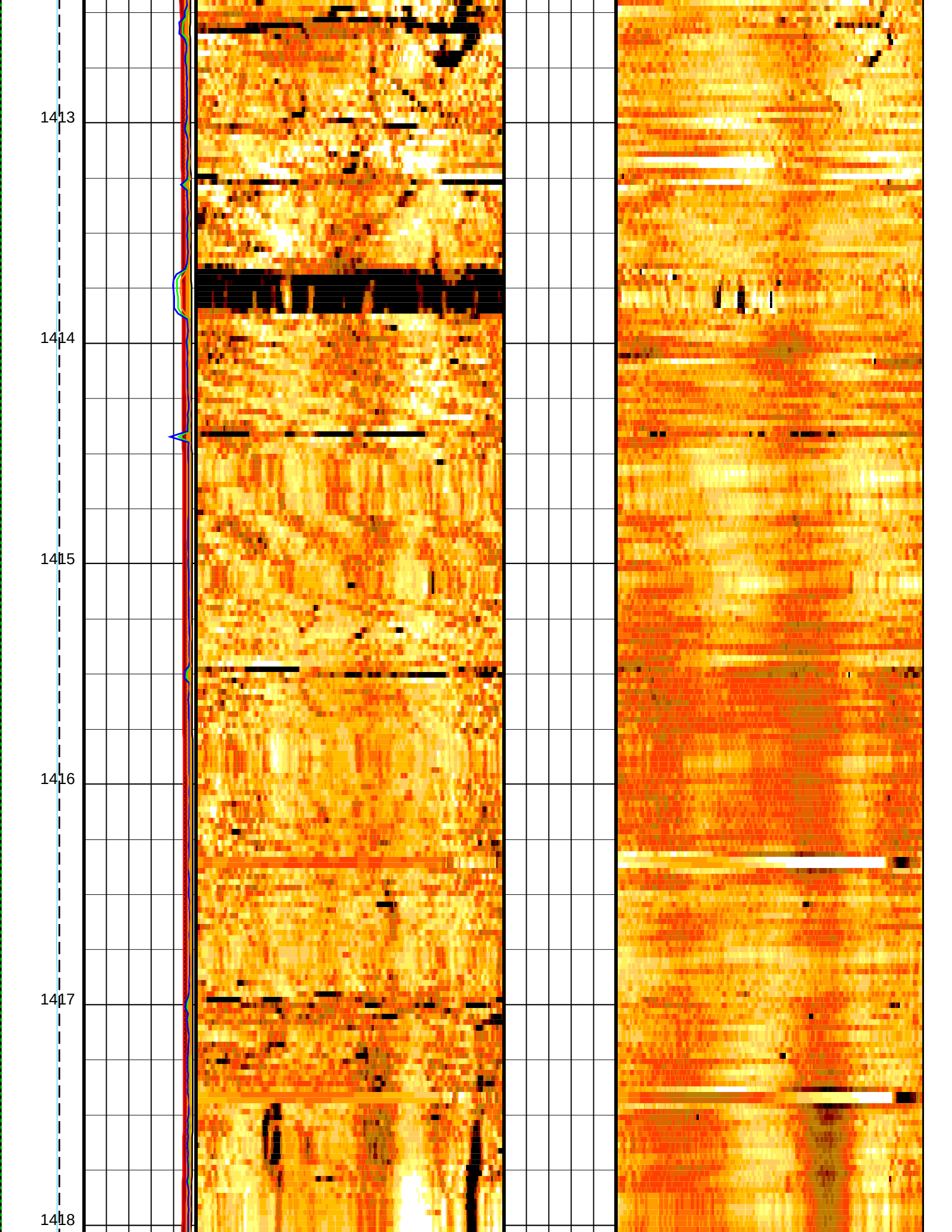
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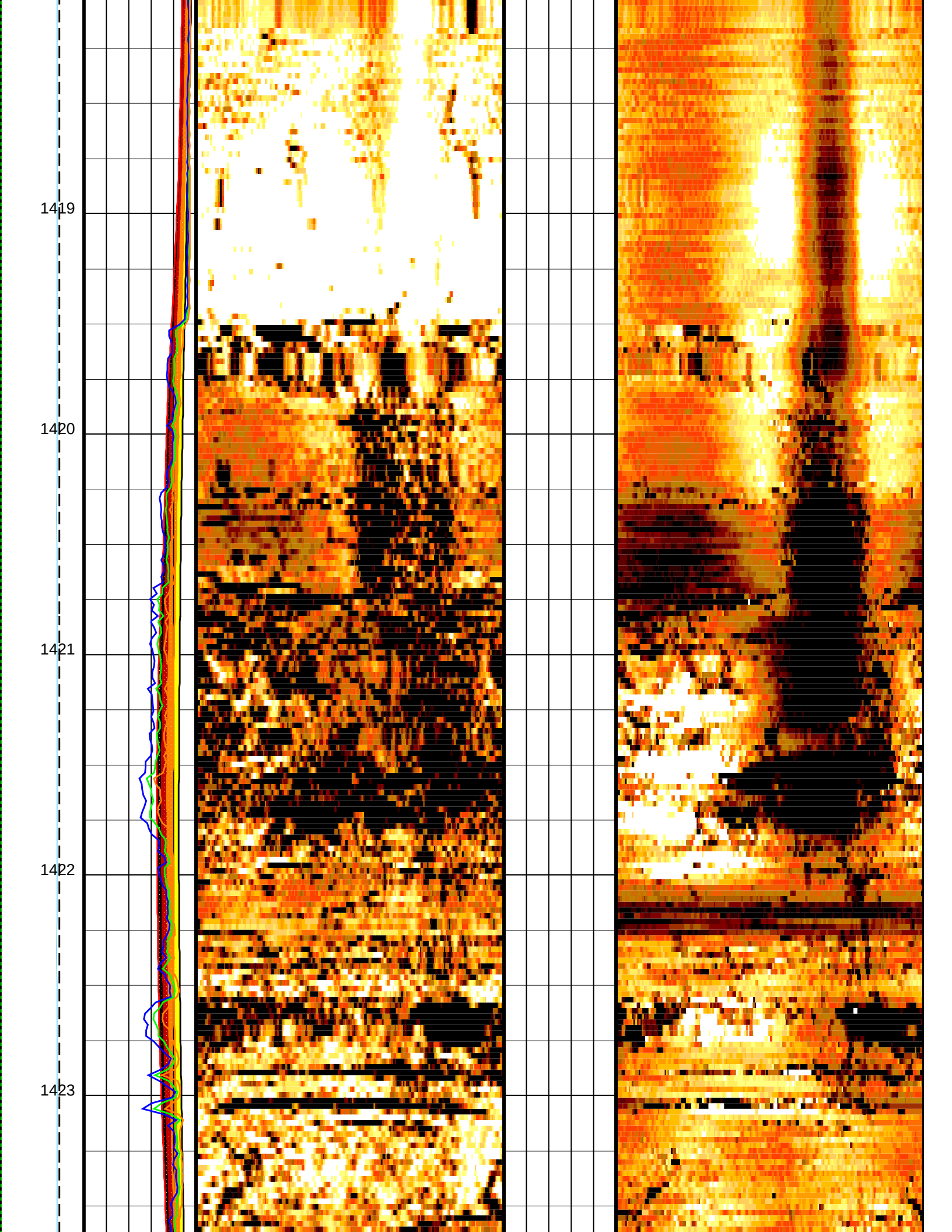
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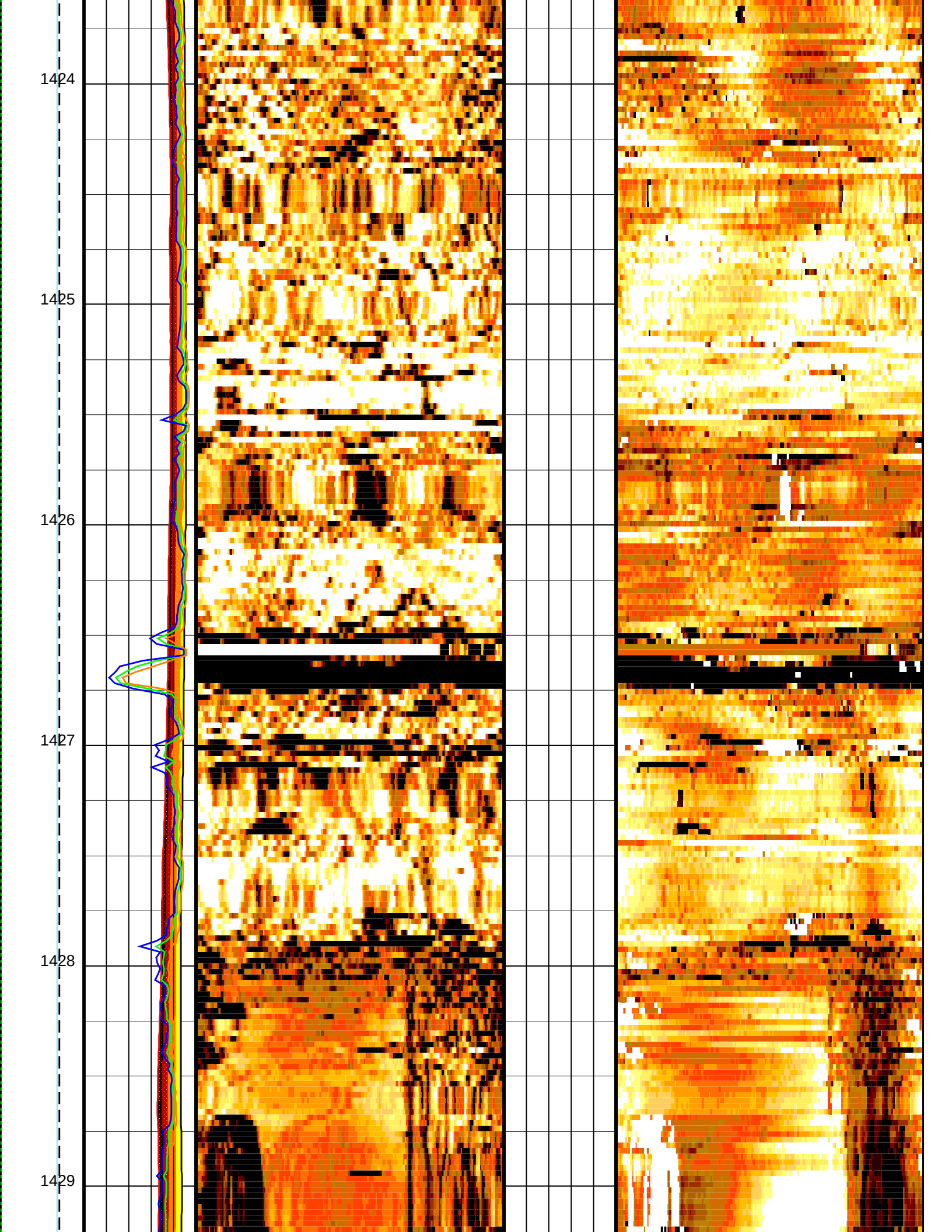
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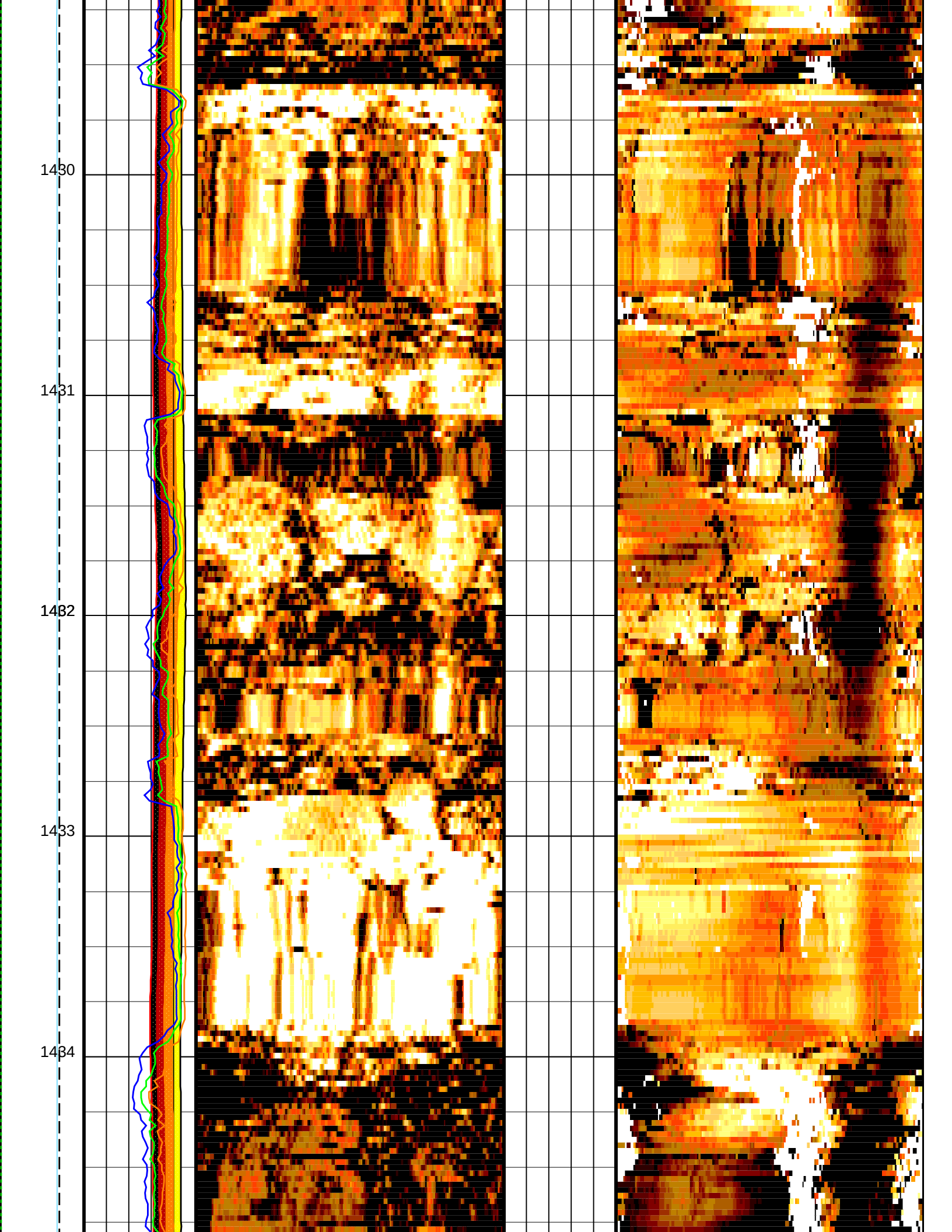
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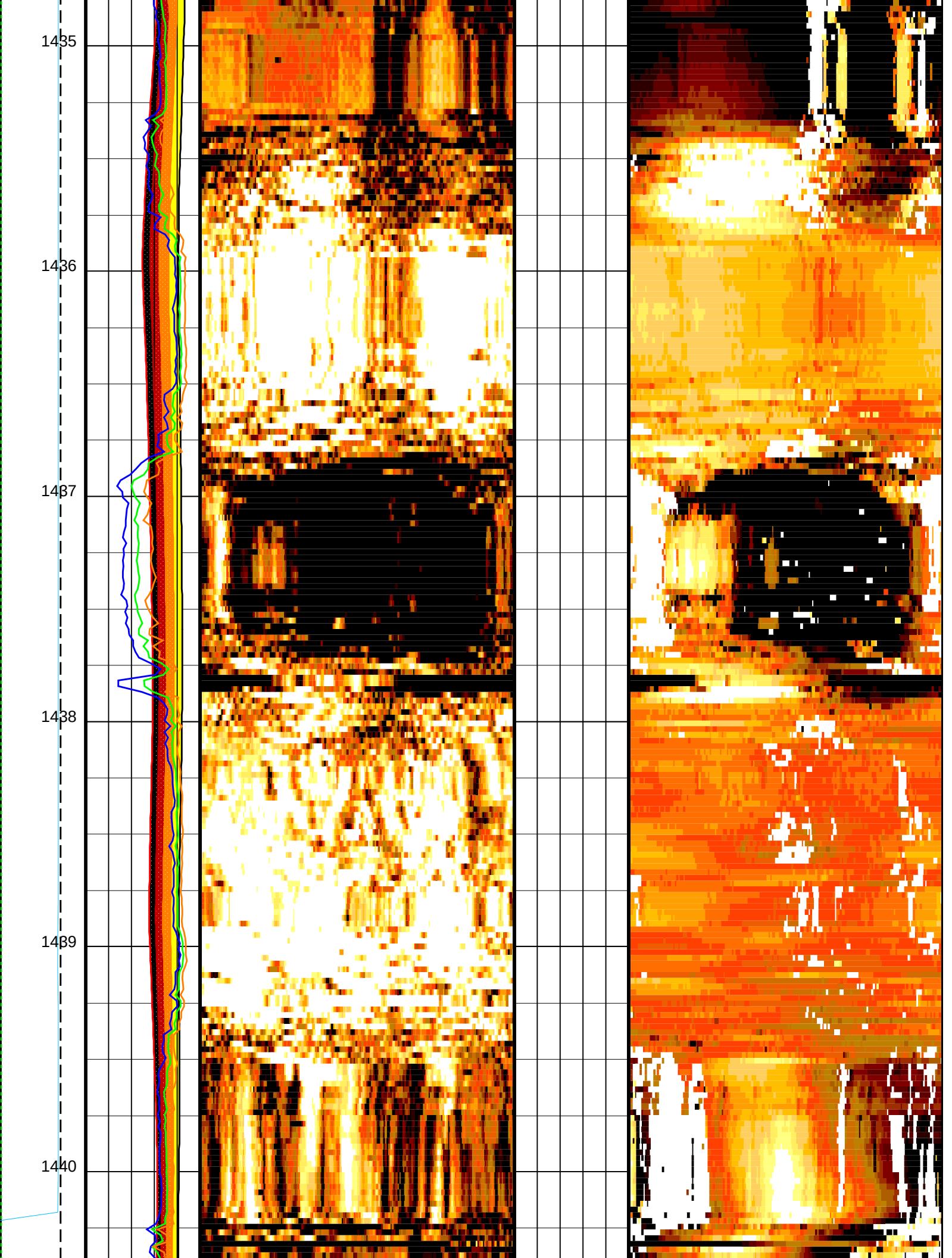
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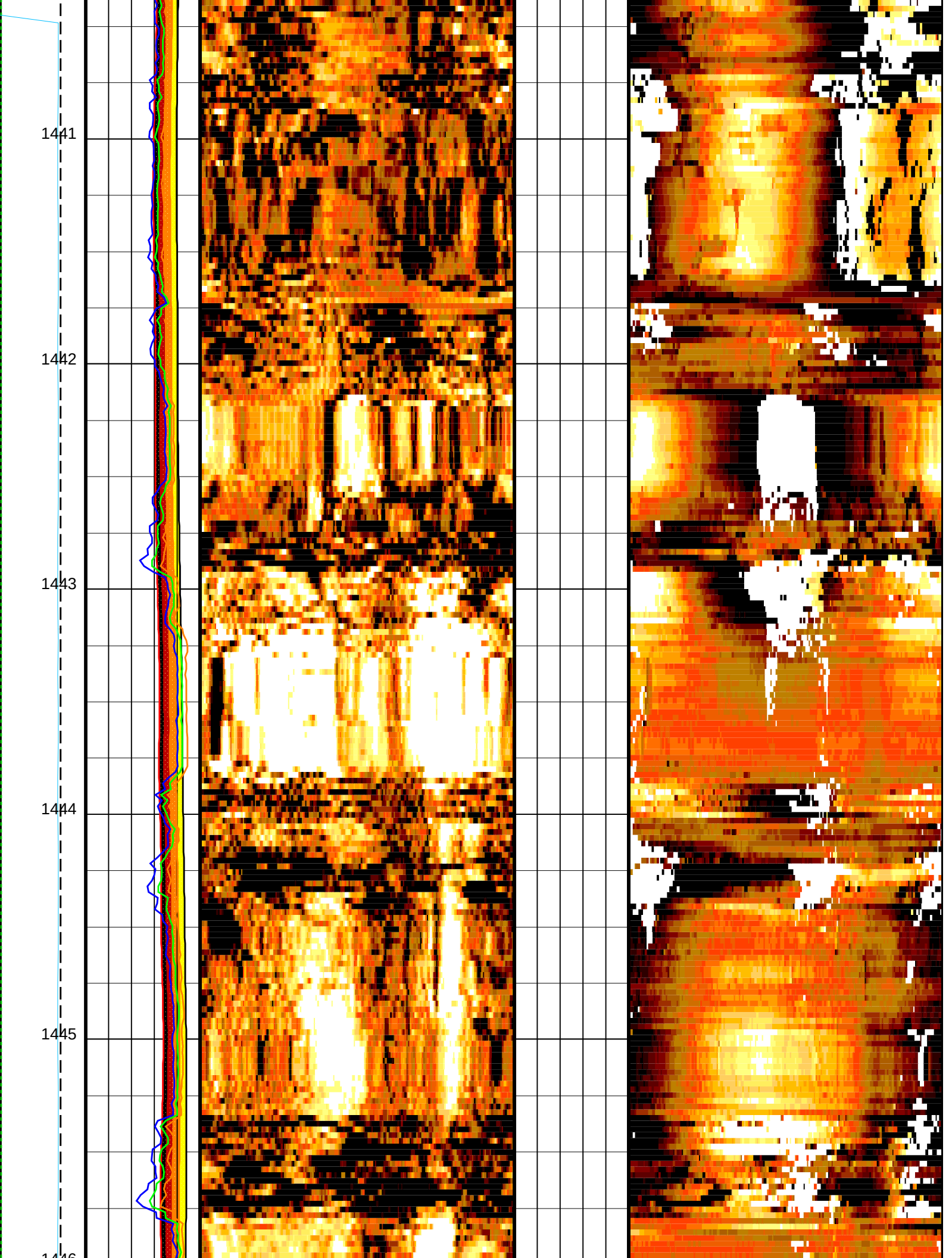
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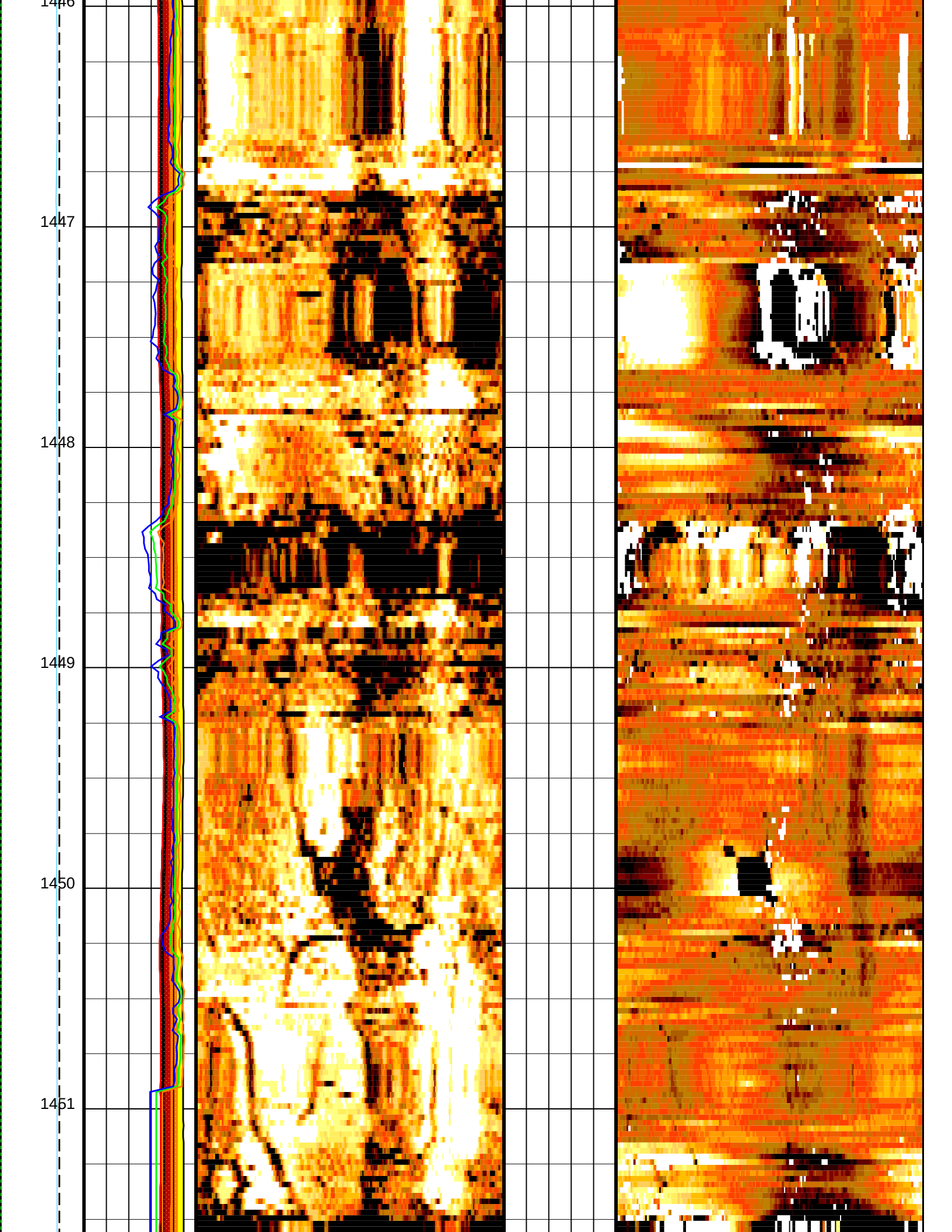
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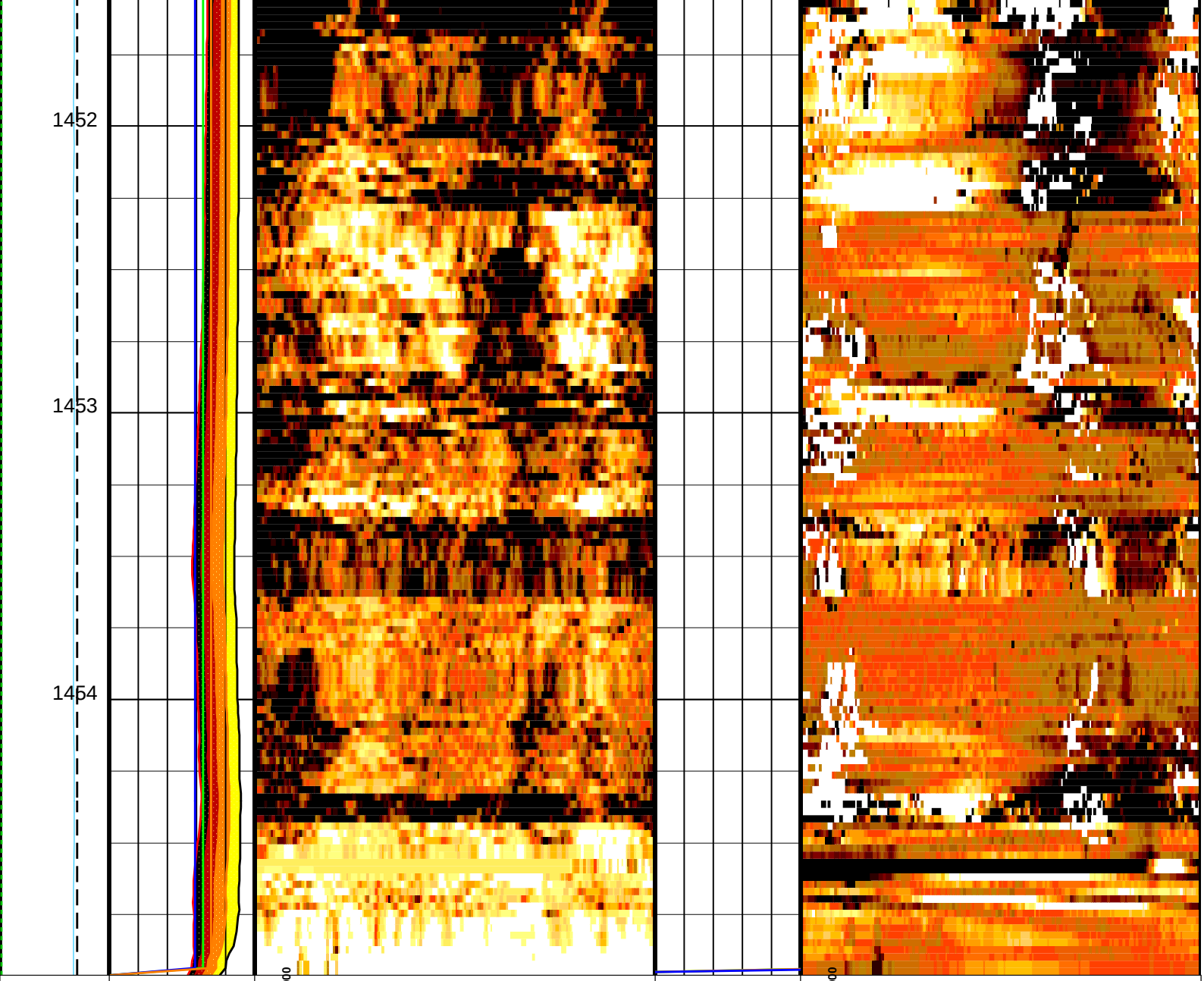


Rev. speed (RSAV)	LOW Amplitude (FA25)	Corrected Amplitude (AWCN) (DB)	MEDIAN Radius (FTED)	Corrected transit time (TTCN) (US)
6 (RPS) 8	0 (DB) 50	−500.0000 0.0000 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000	3 (IN) 4.5	−500.0000 0.0000 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

Cable Speed (CS) (M/HR)	Min. of Amplitude (UAMN)	Radius LOW (FT25)
0 150000	0 (DB) 50	3 (IN) 4.5

Fluid velocity (CFVL) (US/M)	Maximum of Amplitude (UAMX)	Radius HIGH (FT75)
450 750	0 (DB) 50	3 (IN) 4.5

	MEDIAN of Amplitude (FAED)	Radius min (UTMN)
	0 (DB) 50	3 (IN) 4.5

	HIGH Amplitude (FA75)	Radius max (UTMX)
	0 (DB) 50	3 (IN) 4.5

Format: UBI_Image Vertical Scale: 1:20 Graphics File Created: 10−Sep−2021 02:59

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Parameters

DLIS Name	Description	Value	
	UBI−D: Ultrasonic Borehole Imager − D		
AAMN	Automatic Amplitude Minimum Scale	2	DB
ANGO	Angular Offset	−17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
CSID	Casing Inner Diameter	4.125	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	201	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_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT 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	
	UHSV: UBI Hole Shape Analysis		
AAMN	Automatic Amplitude Minimum Scale	2	DB
ANGO	Angular Offset	−17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
CSID	Casing Inner Diameter	4.125	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	201	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_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT 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	Flip_UBI_NGS_049LUP	PRODUCER	10−Sep−2021 02:57	1455.0 M	1191.0 M

Output DLIS Files

Output DLIS Files

DEFAULT	UBI_NGS_051PUP	FN:66	PRODUCER	10−Sep−2021 02:59	
RTB	UBI_NGS_051PUP	FN:67	PRODUCER	10−Sep−2021 02:59	

Company: International Ocean Discovery Program — Well: Expedition 396, Site U1571A

Input DLIS Files

DEFAULT	Flip_UBI_NGS_049LUP		PRODUCER	10−Sep−2021 02:57	1455.0 M	1191.0 M

Output DLIS Files

DEFAULT	UBI_NGS_051PUP	FN:66	PRODUCER	10−Sep−2021 02:59	1455.0 M	1191.0 M
RTB	UBI_NGS_051PUP	FN:67	PRODUCER	10−Sep−2021 02:59	1455.0 M	1191.0 M

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

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

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

HNGS Det.1 Resolution Degradation Factor (RDF1)
0 (−−−−) 10

HNGS Det.2 Gain Correction Factor (GCF2)
0.9 (−−−−) 1.1

HNGS Det.1 Gain Correction Factor (GCF1)
0.9 (−−−−) 1.1

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 150

Caliper (BS)
6 (IN) 16

Bit Size (BS)
6 (IN) 16

HNGS Borehole Potassium (HBHK)
−0.05 (V/V) 0.05

HNGS Det.2 Chi Squared (CHI2)
10 (−−−−) 0

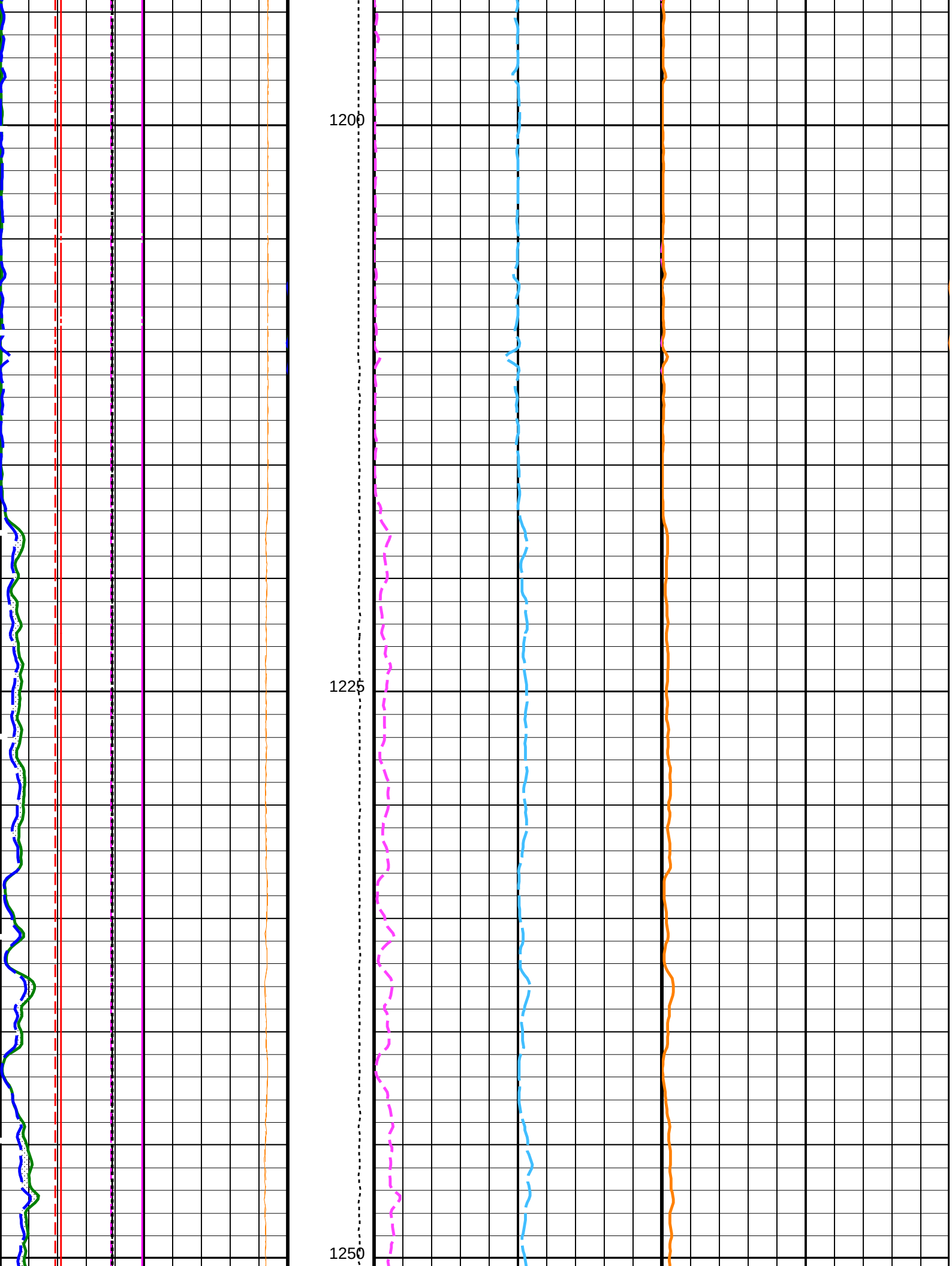
HNGS Uranium (HURA)
−10 (PPM) 30

HNGS Det.1 Chi Squared (CHI1)
10 (−−−−) 0

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 30

HNGS Potassium (HFK)
0 (V/V) 0.1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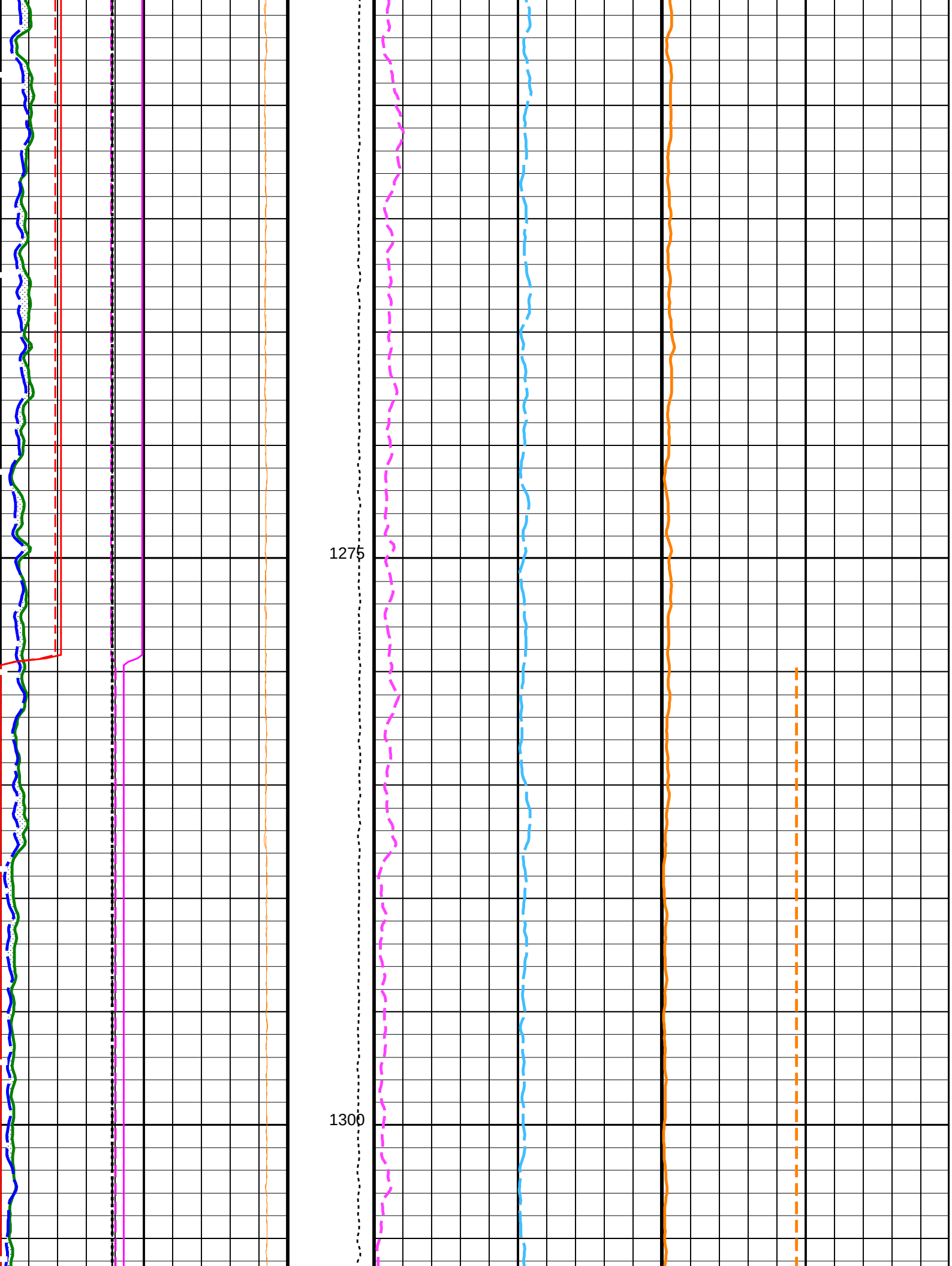
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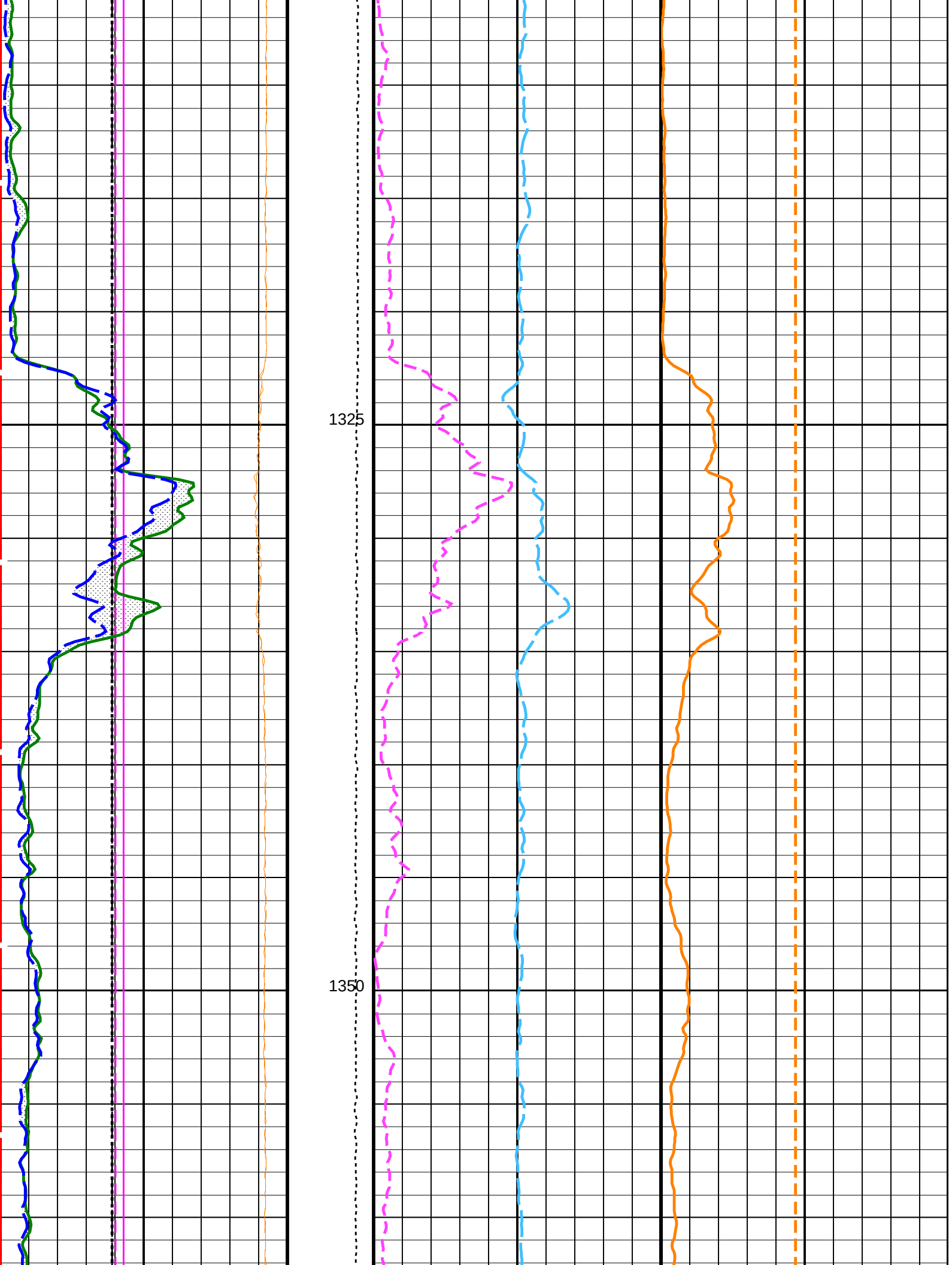
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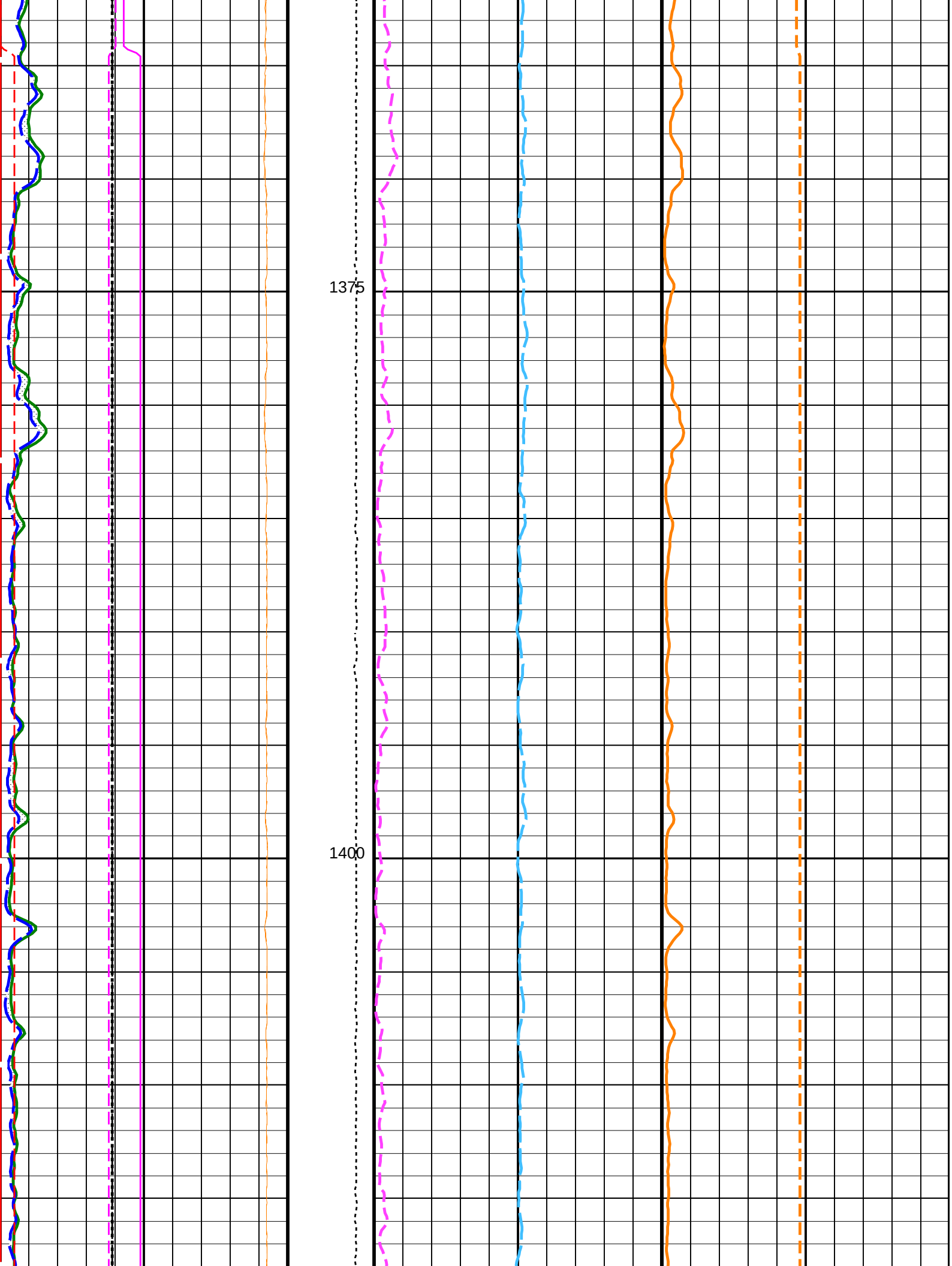
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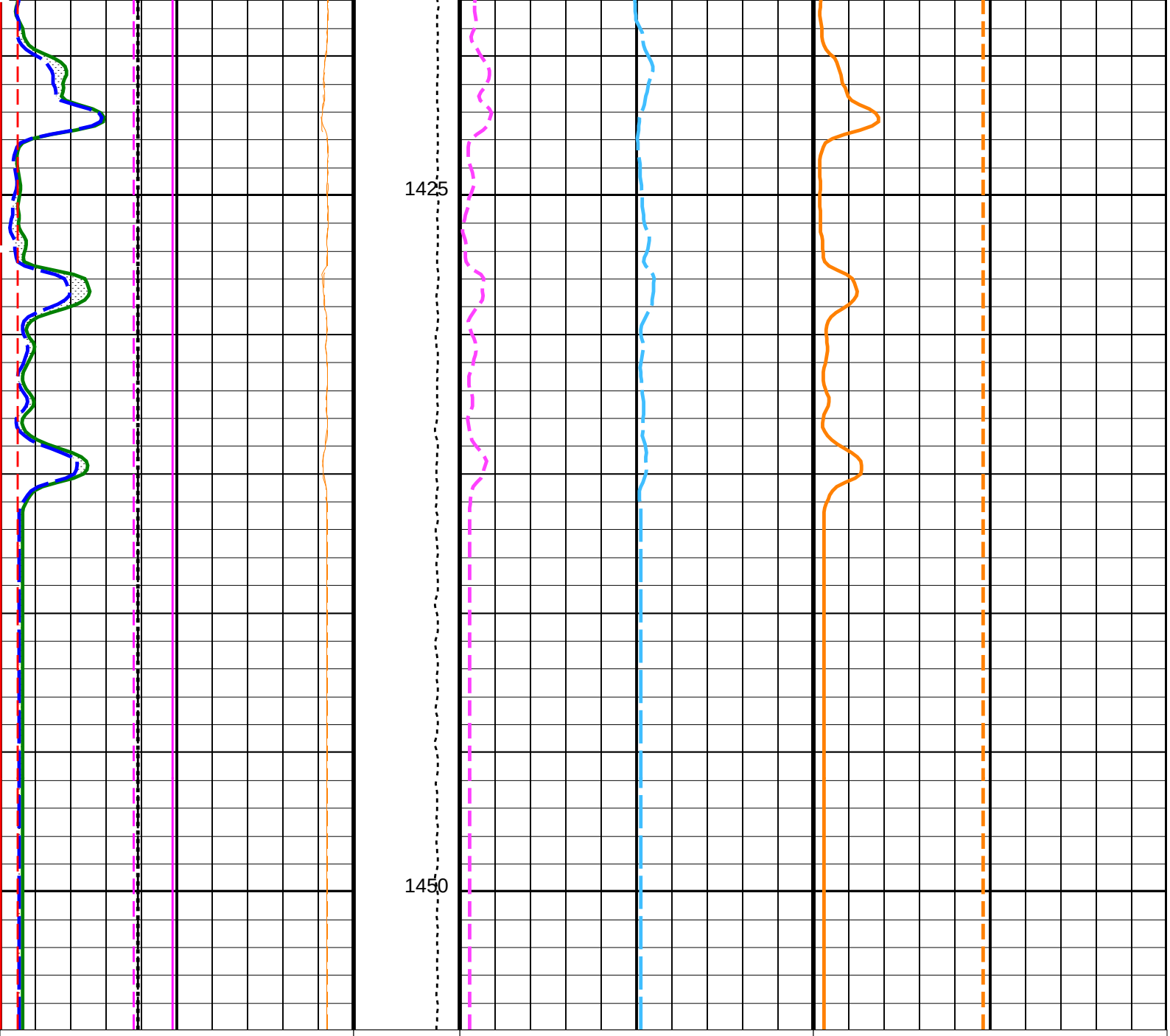


HNGS Det.1 Chi Squared (CHI1)
10 (----) 0

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 30

HNGS Potassium (HFK)
0 (V/V) 0.1

HNGS Det.2 Chi Squared (CHI2)
10 (----) 0

HNGS Uranium (HURA)
−10 (PPM) 30

Bit Size (BS)
6 (IN) 16

HNGS Borehole Potassium (HBHK)
−0.05 (V/V) 0.05

Caliper (BS)
6 (IN) 16

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 150

Area1
From HCGR to HSGR

HNGS Det.1 Gain Correction Factor (GCF1)
0.9 (----) 1.1

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

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00249684	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma−Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01646	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.04024	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields **Vertical Scale: 1:200** **Graphics File Created: 10−Sep−2021 02:59**

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	Flip_UBI_NGS_049LUP	PRODUCER	10−Sep−2021 02:57	1455.0 M	1191.0 M

Output DLIS Files

DEFAULT	UBI_NGS_051PUP	FN:66	PRODUCER	10−Sep−2021 02:59
RTB	UBI_NGS_051PUP	FN:67	PRODUCER	10−Sep−2021 02:59

Schlumberger

First Pass

MAXIS Field Log

Company: International Ocean Discovery Program | **Well: Expedition 396, Site U1571A**

Output DLIS Files

DEFAULT	UBI_NGS_045LUP	FN:58	PRODUCER	10−Sep−2021 00:22	1453.9 M	1345.7 M
RTB	UBI_NGS_045LUP	FN:59	PRODUCER	10−Sep−2021 00:22	1453.9 M	1345.7 M

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

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

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

HNGS Det.1 Resolution Degradation Factor (RDF1)
0 (−−−−) 10

HNGS Det.2 Gain Correction Factor (GCF2)
0.9 (−−−−) 1.1

HNGS Det.1 Gain Correction Factor (GCF1)
0.9 (−−−−) 1.1

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 150

Caliper (BS)
6 (IN) 16

Bit Size (BS)
6 (IN) 16

HNGS Borehole Potassium (HBHK)
−0.05 (V/V) 0.05

HNGS Det.2 Chi Squared (CHI2)
10 (−−−−) 0

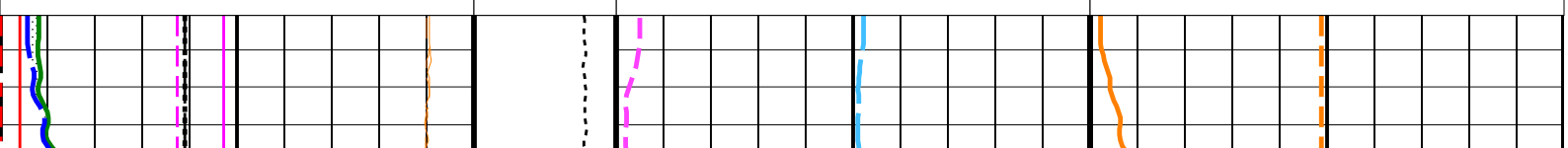
HNGS Uranium (HURA)
−10 (PPM) 30

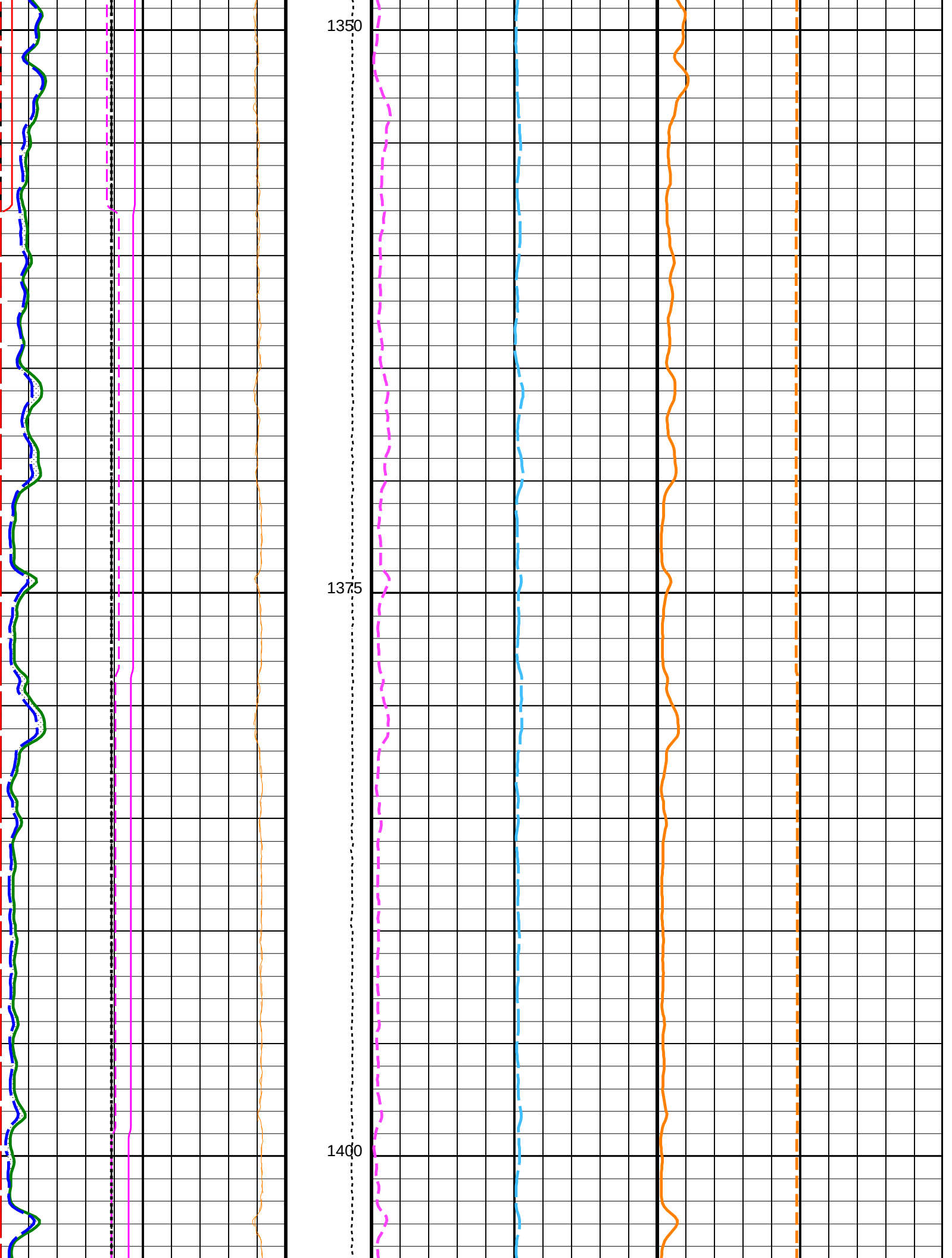
HNGS Det.1 Chi Squared (CHI1)
10 (−−−−) 0

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 30

HNGS Potassium (HFK)
0 (V/V) 0.1

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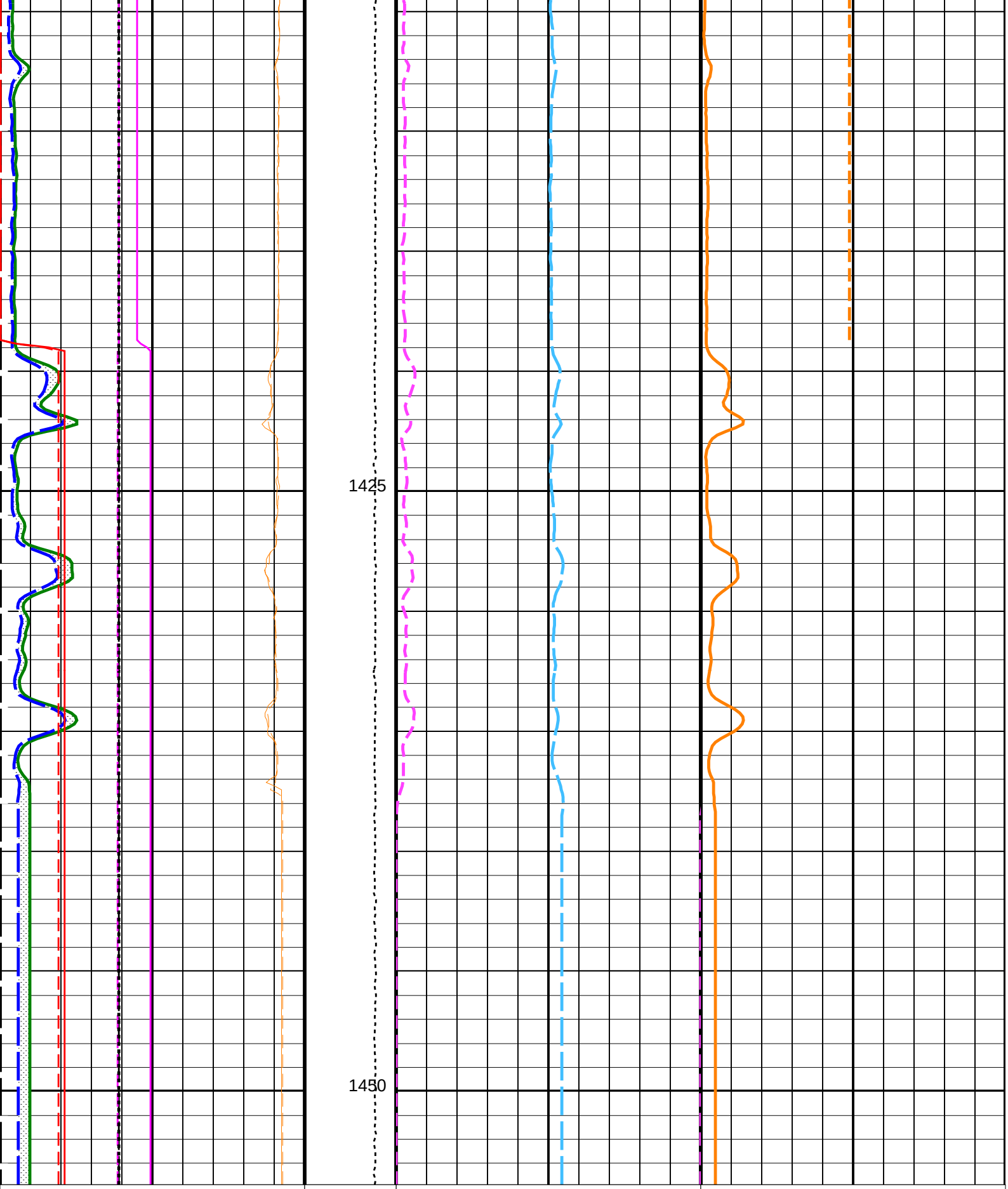


HNGS Det.1 Chi Squared (CHI1)
10 (----) 0

HNGS Det.2 Chi Squared (CHI2)
10 (----) 0

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 30

HNGS Uranium (HURA)
−10 (PPM) 30

HNGS Potassium (HFK)
0 (V/V) 0.1

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

HNGS Borehole Potassium (HBHK)		
−0.05	(V/V)	0.05

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00281501	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma−Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.955108	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.967724	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.05	G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 10−Sep−2021 00:22

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Output DLIS Files

DEFAULT	UBI_NGS_045LUP	FN:58	PRODUCER	10−Sep−2021 00:22	
RTB	UBI_NGS_045LUP	FN:59	PRODUCER	10−Sep−2021 00:22	

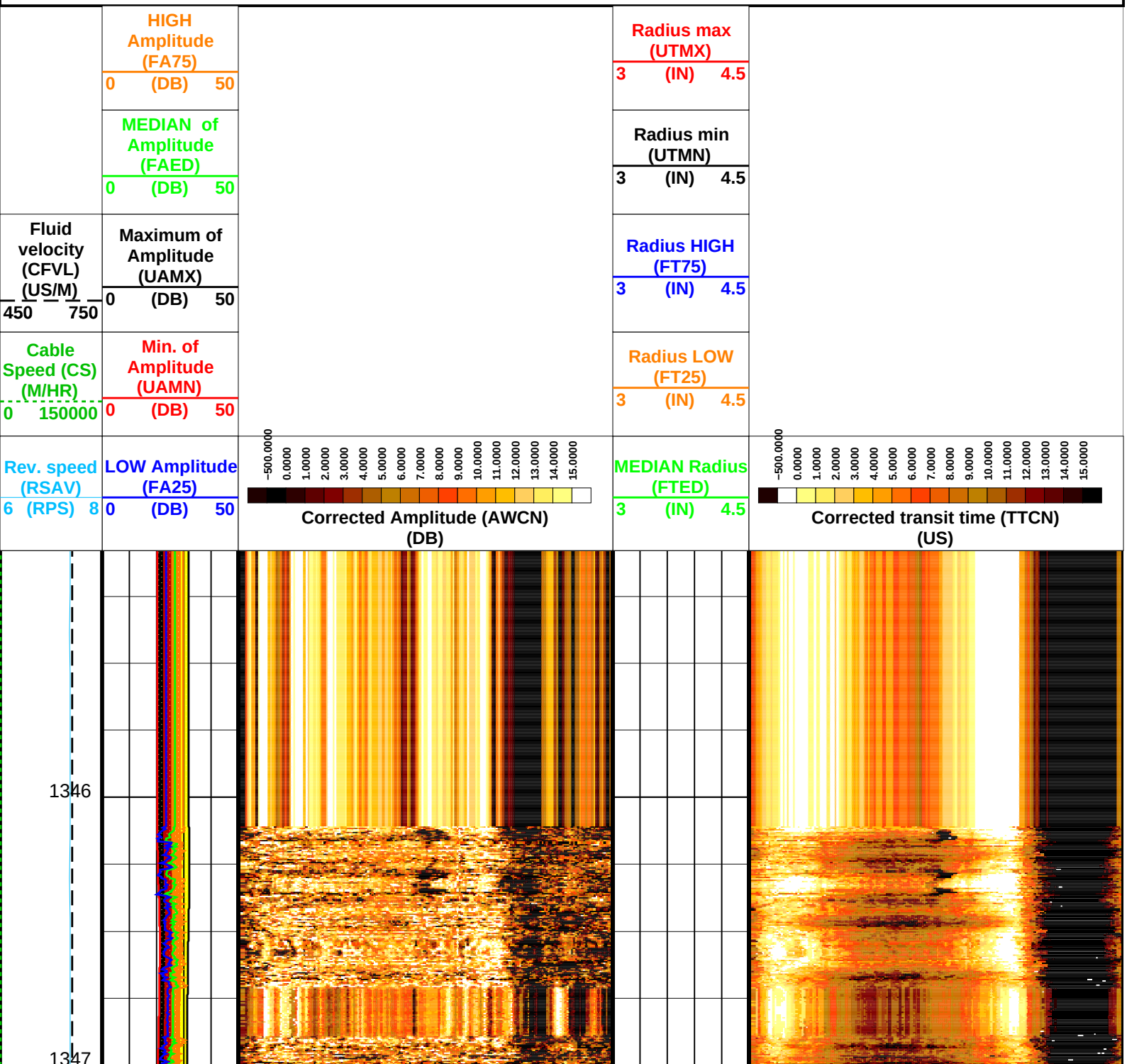
Company: International Ocean Discovery Program | Well: Expedition 396, Site U1571A

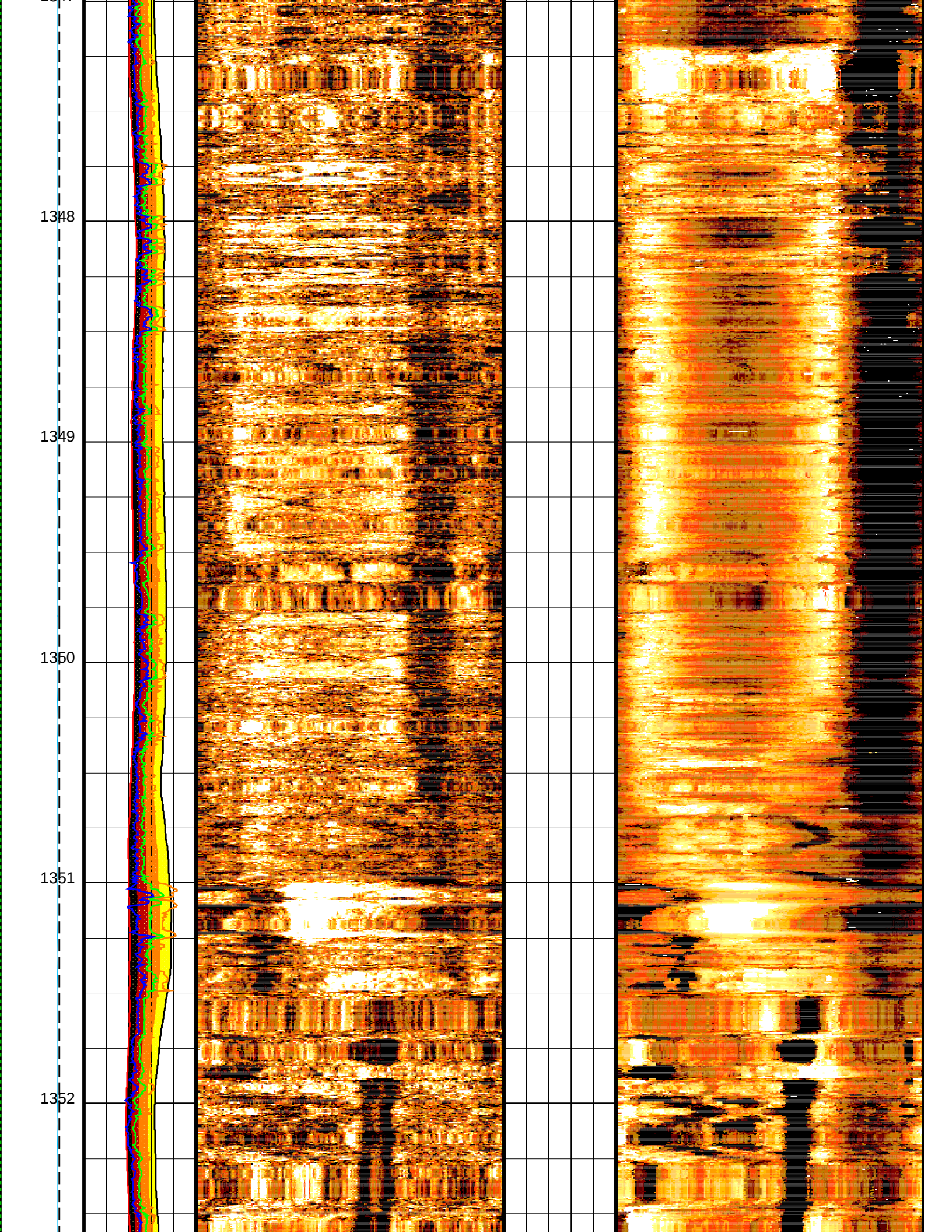
Output DLIS Files

DEFAULT	UBI_NGS_045LUP	FN:58	PRODUCER	10−Sep−2021 00:22	1453.9 M	1345.7 M
RTB	UBI_NGS_045LUP	FN:59	PRODUCER	10−Sep−2021 00:22	1453.9 M	1345.7 M

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

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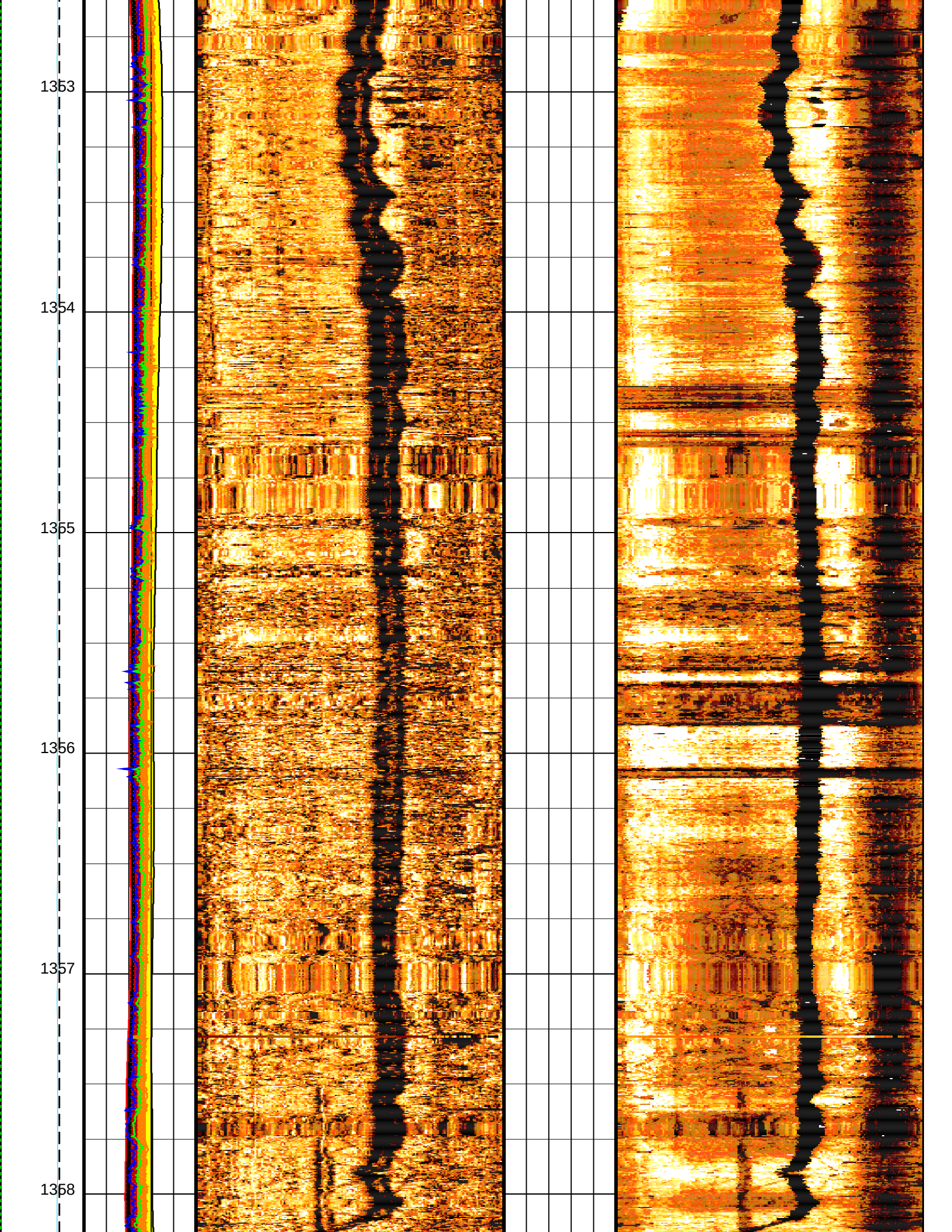
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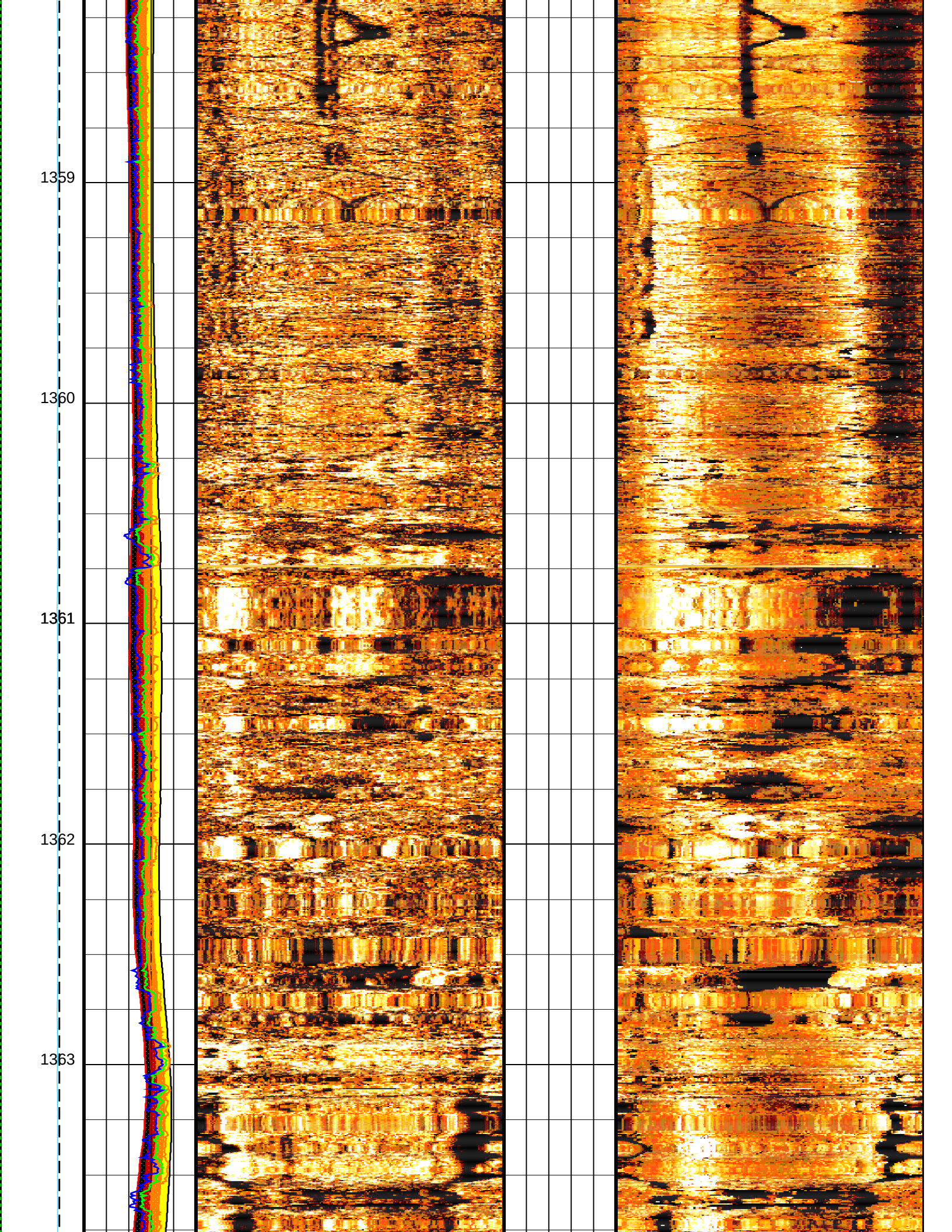
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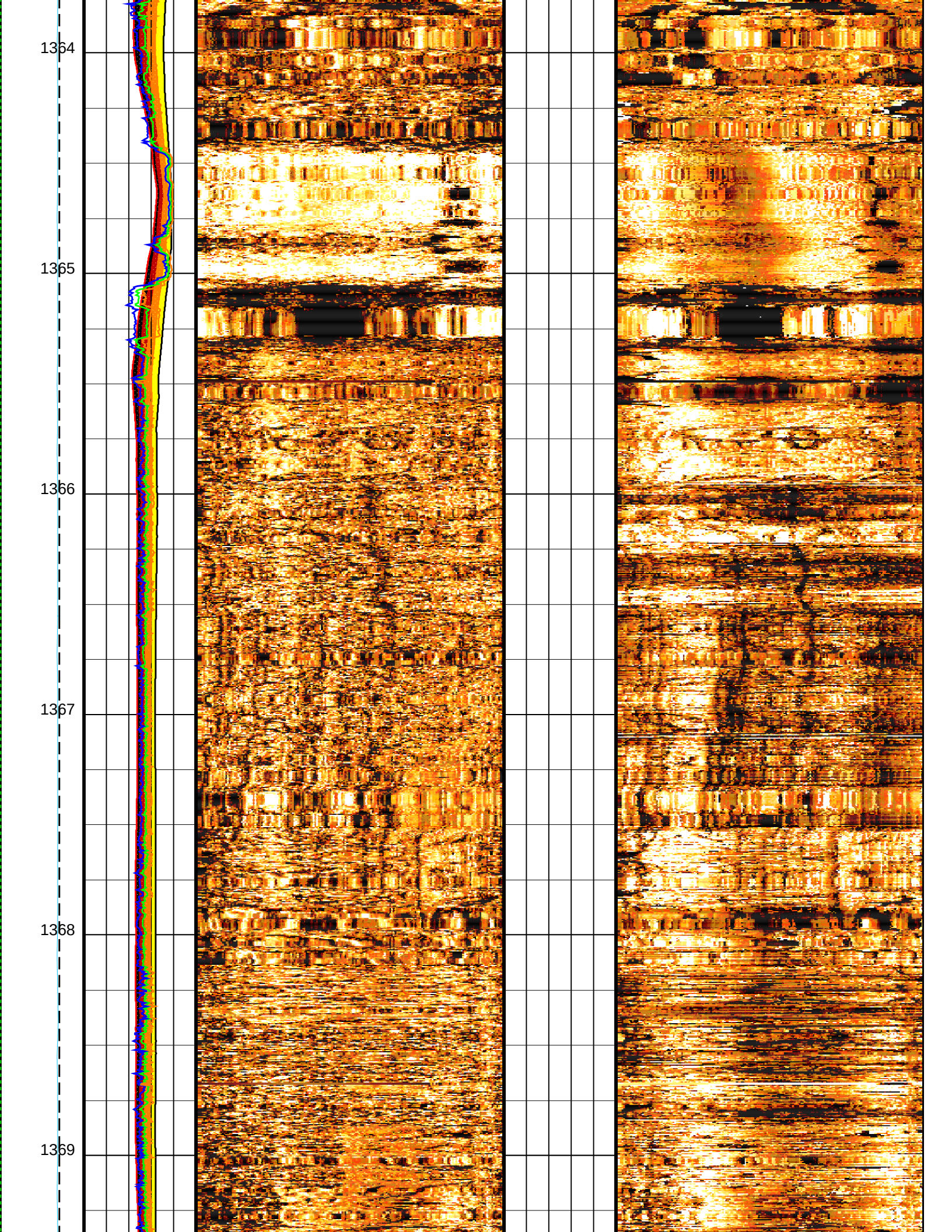
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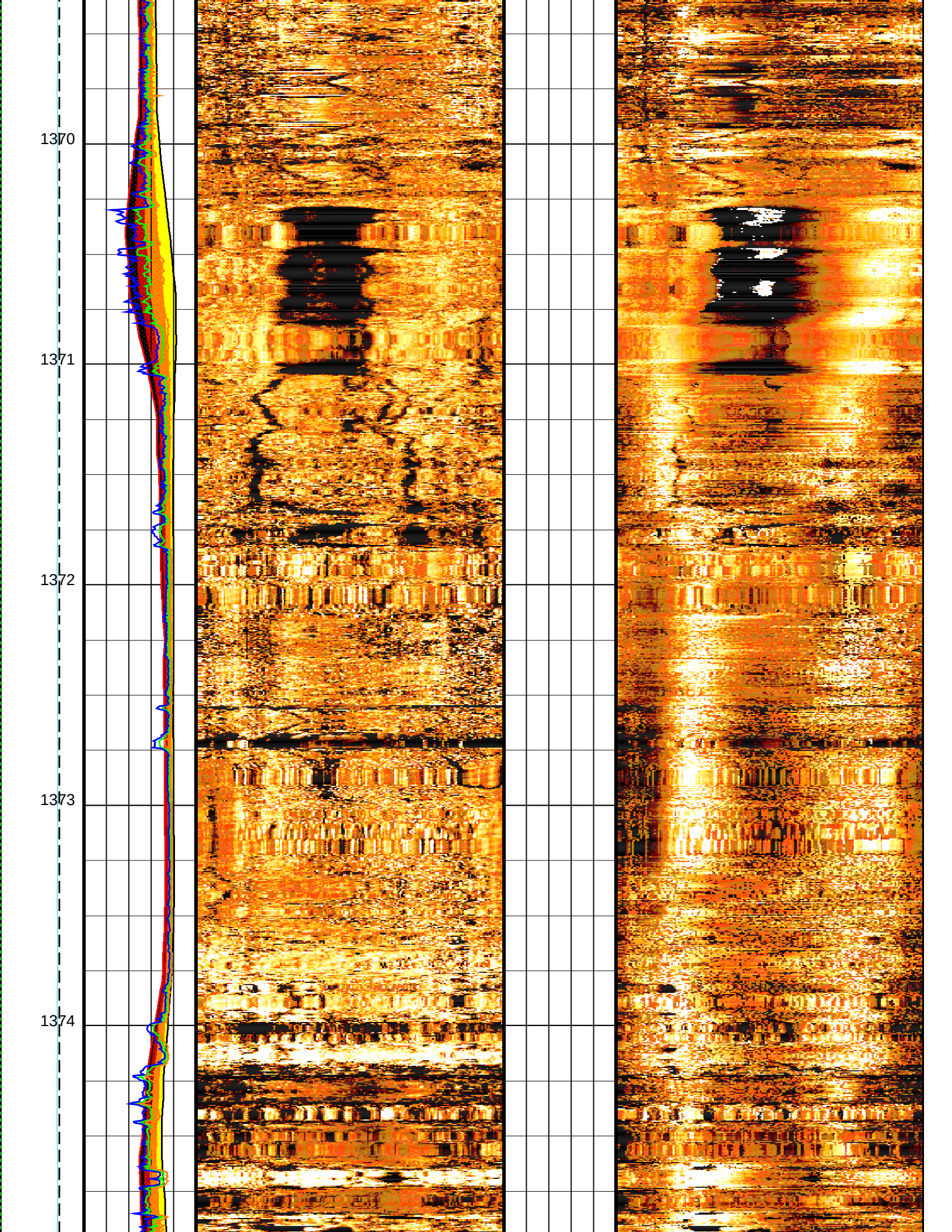
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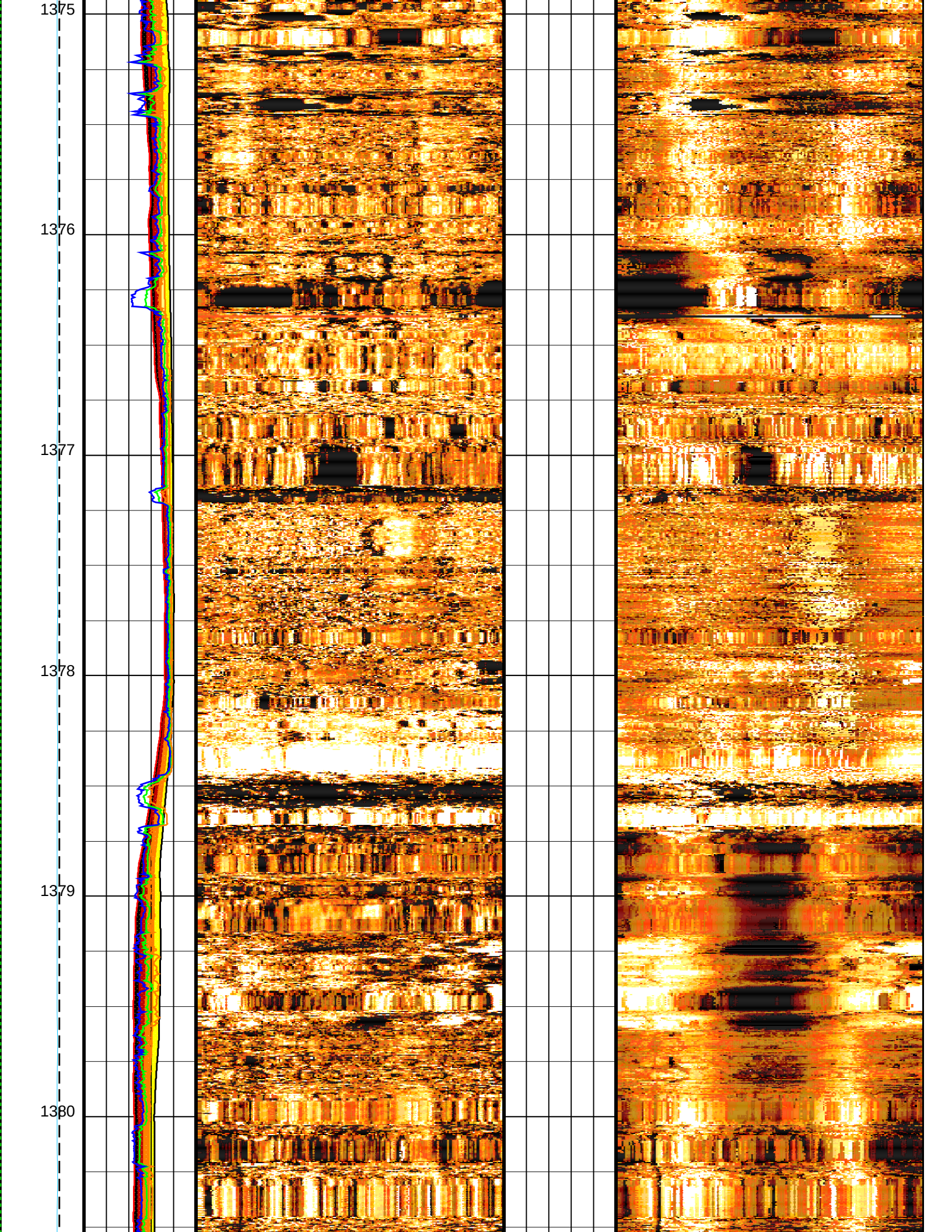
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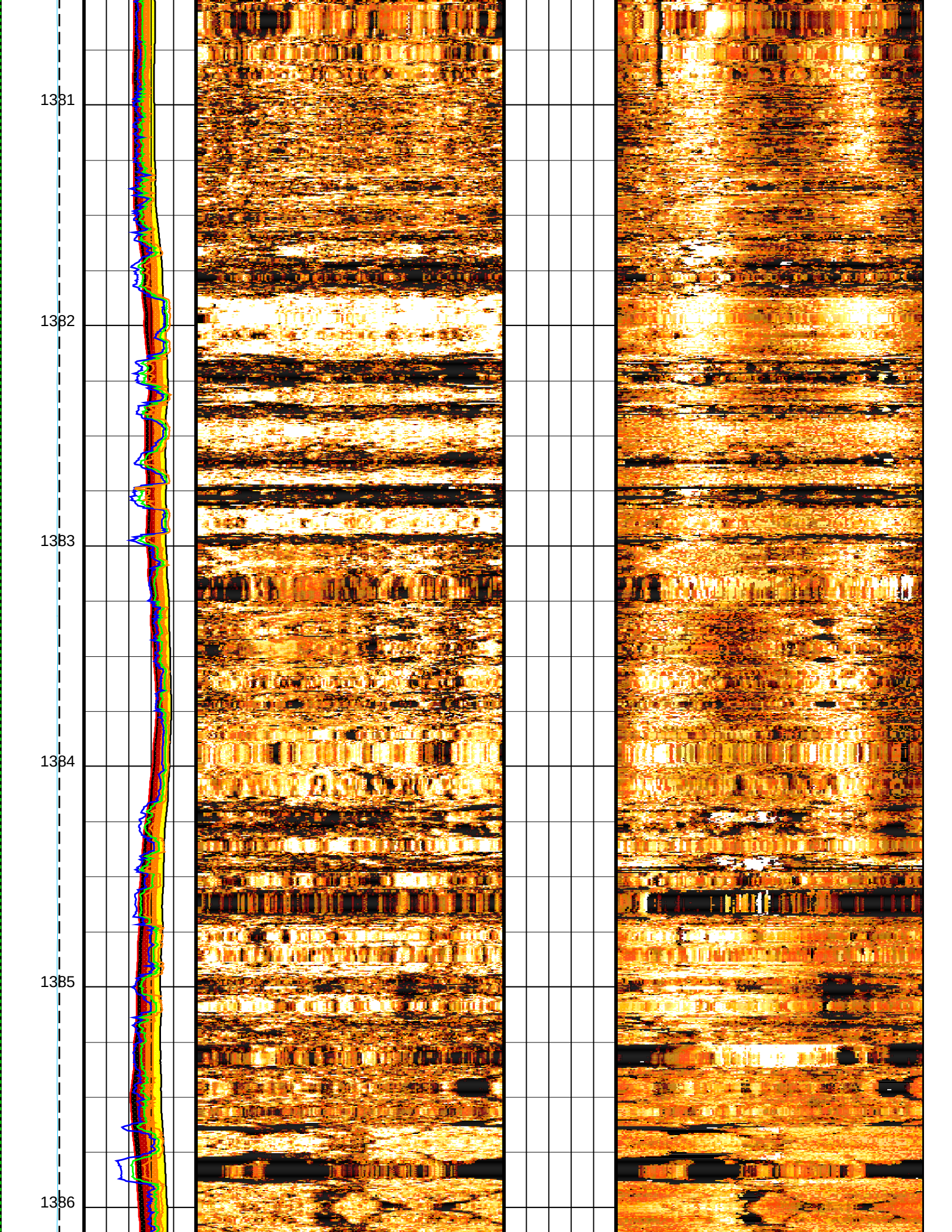
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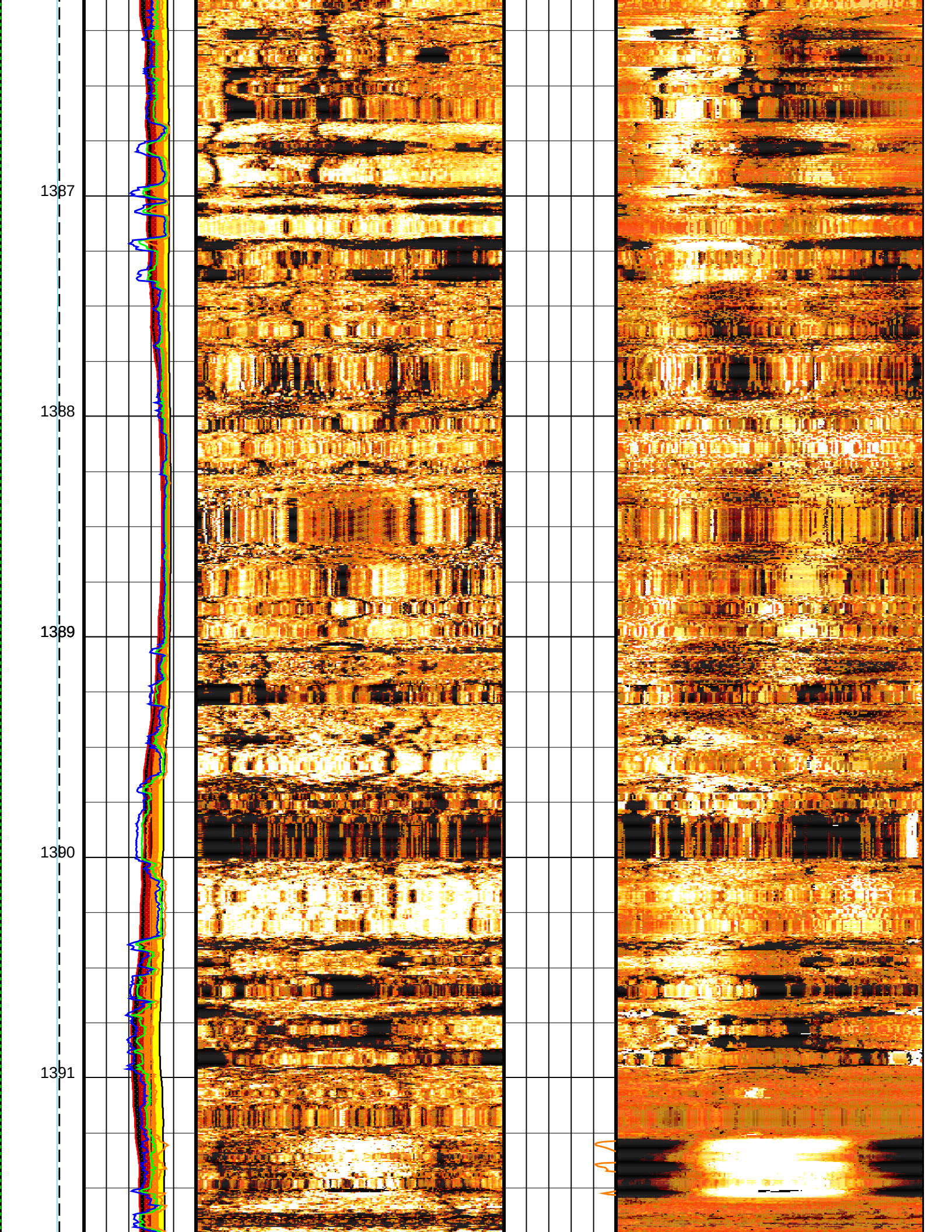
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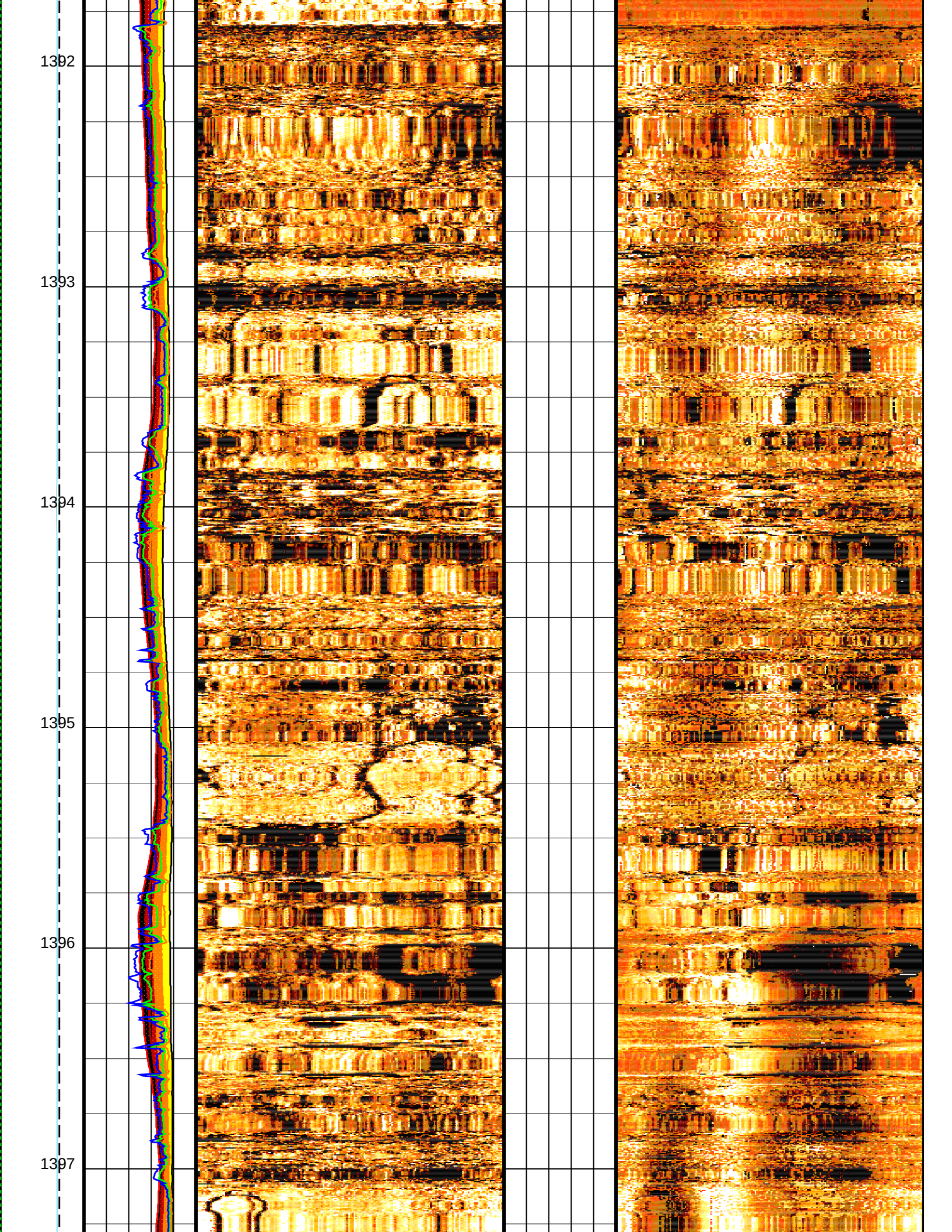
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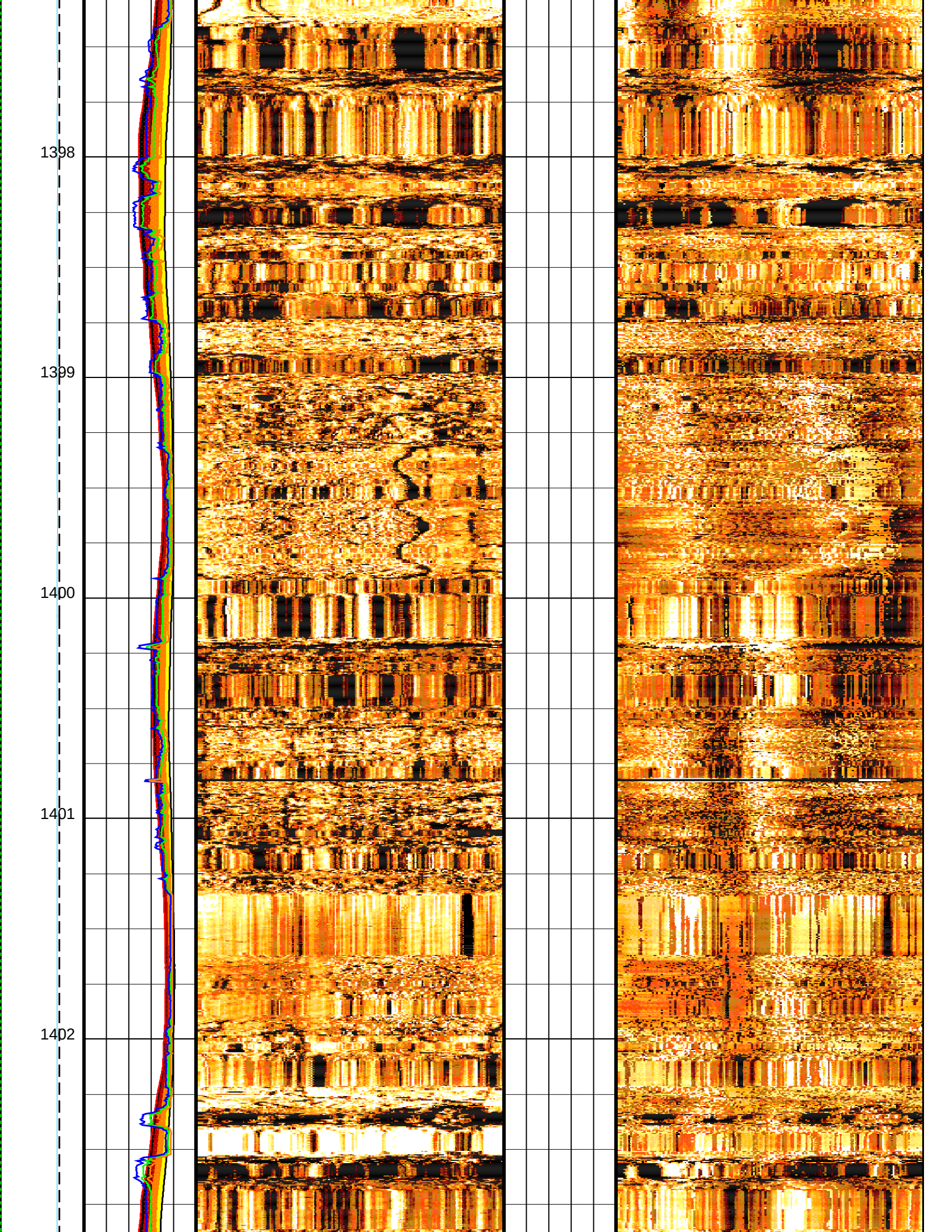
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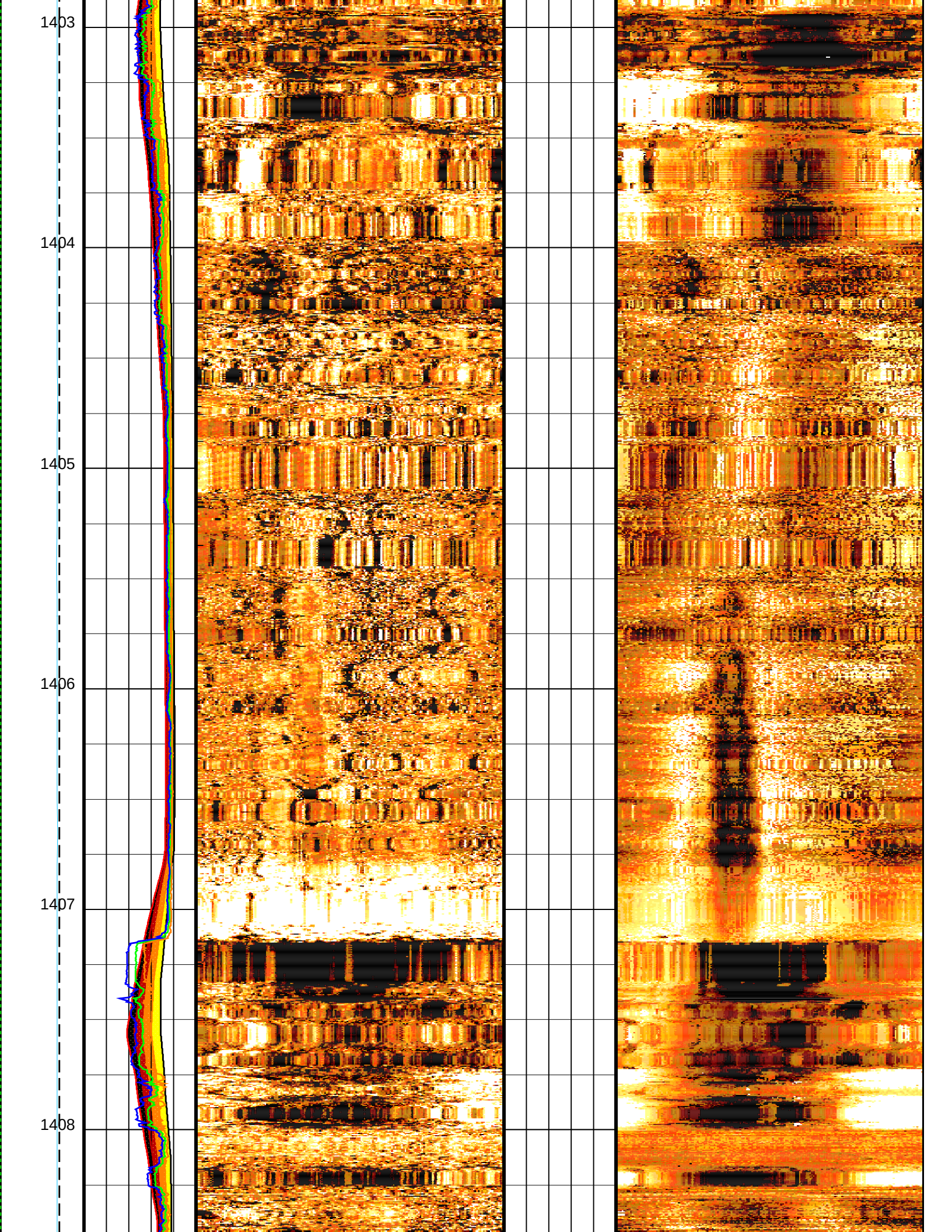
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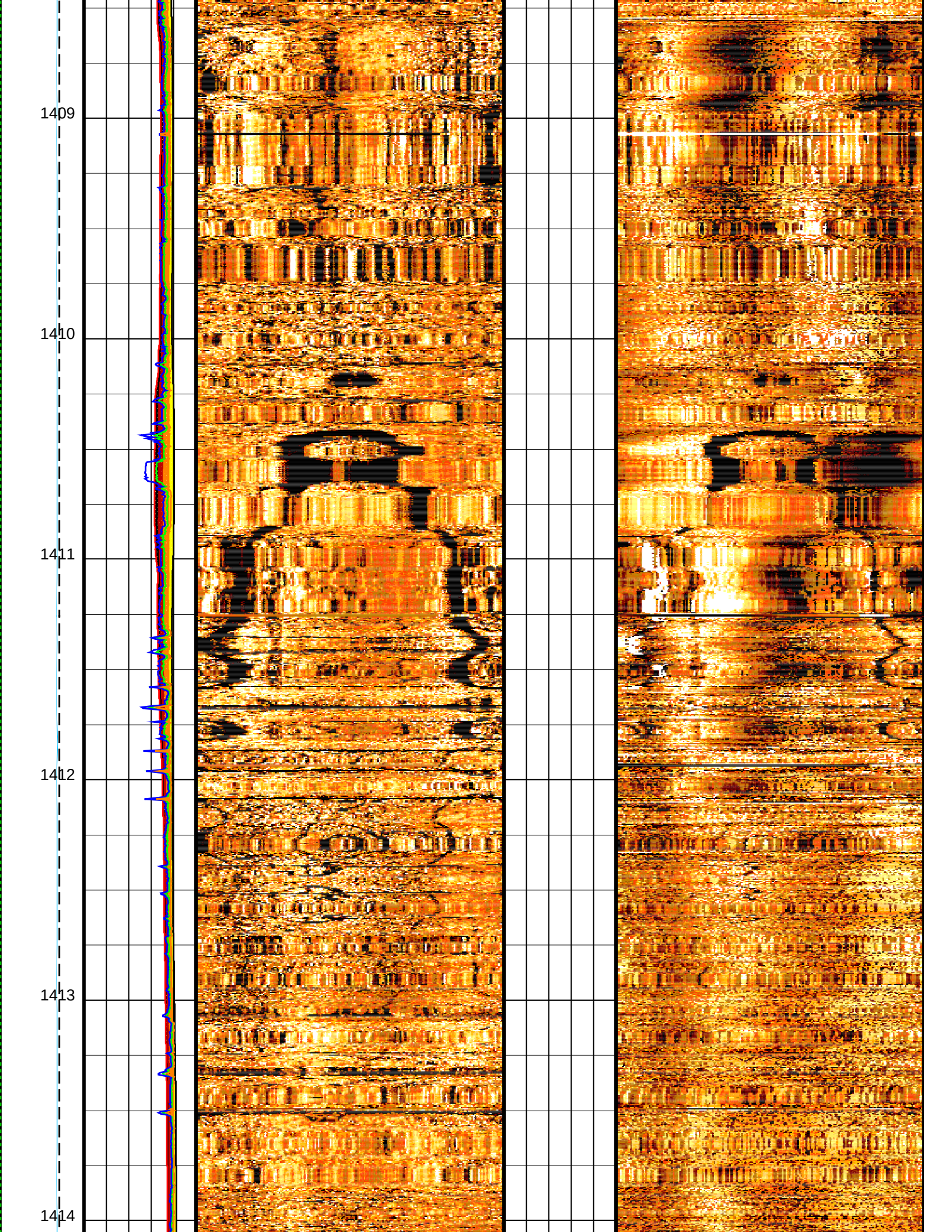
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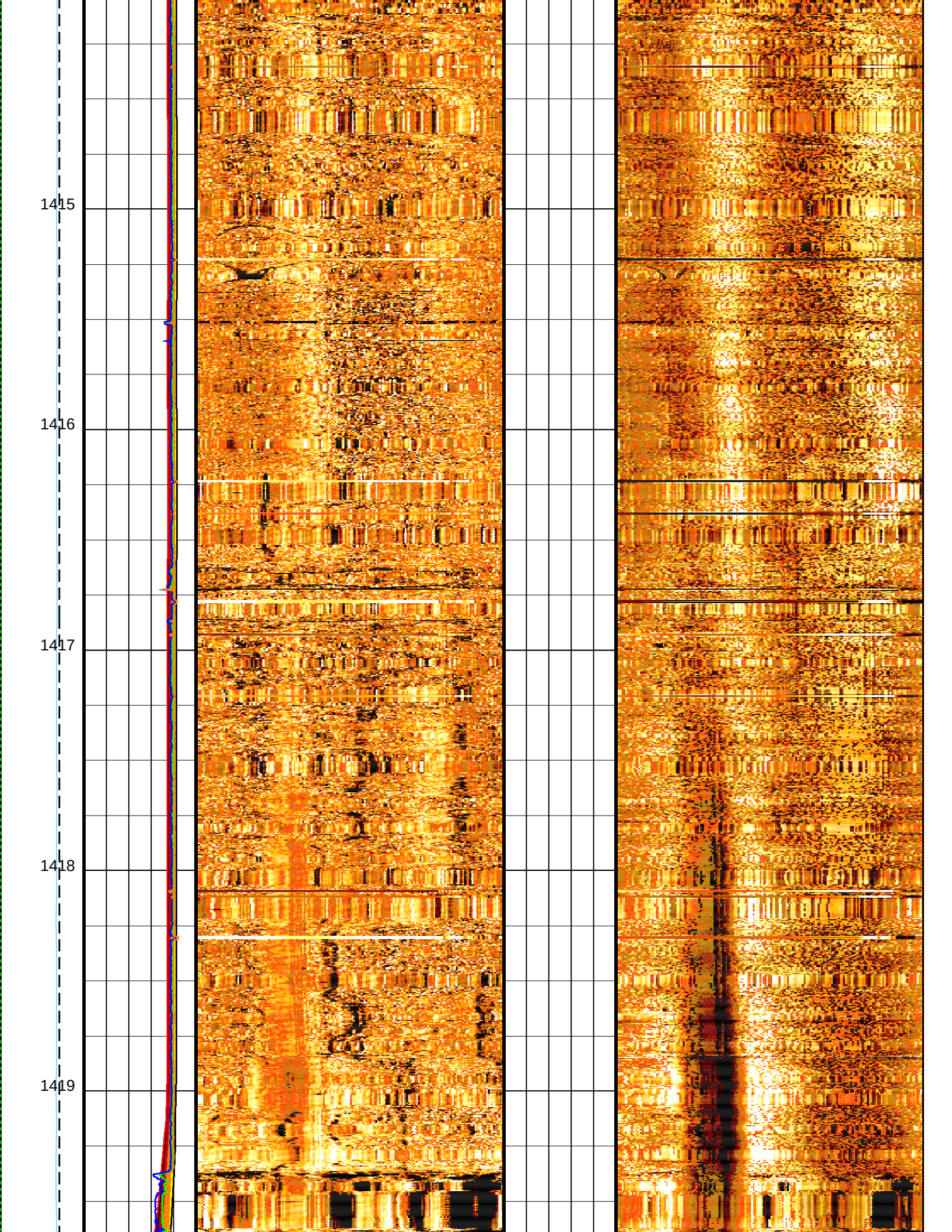
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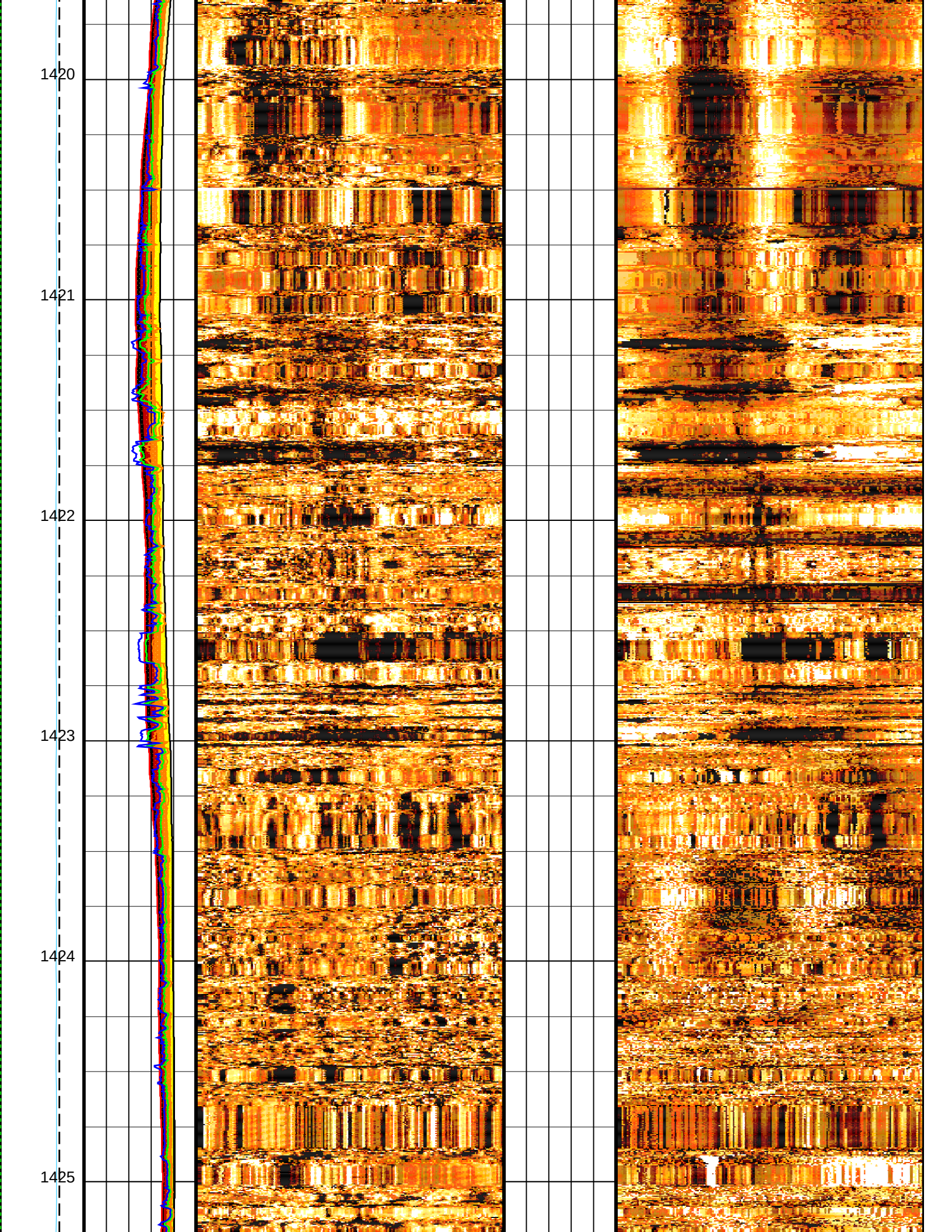
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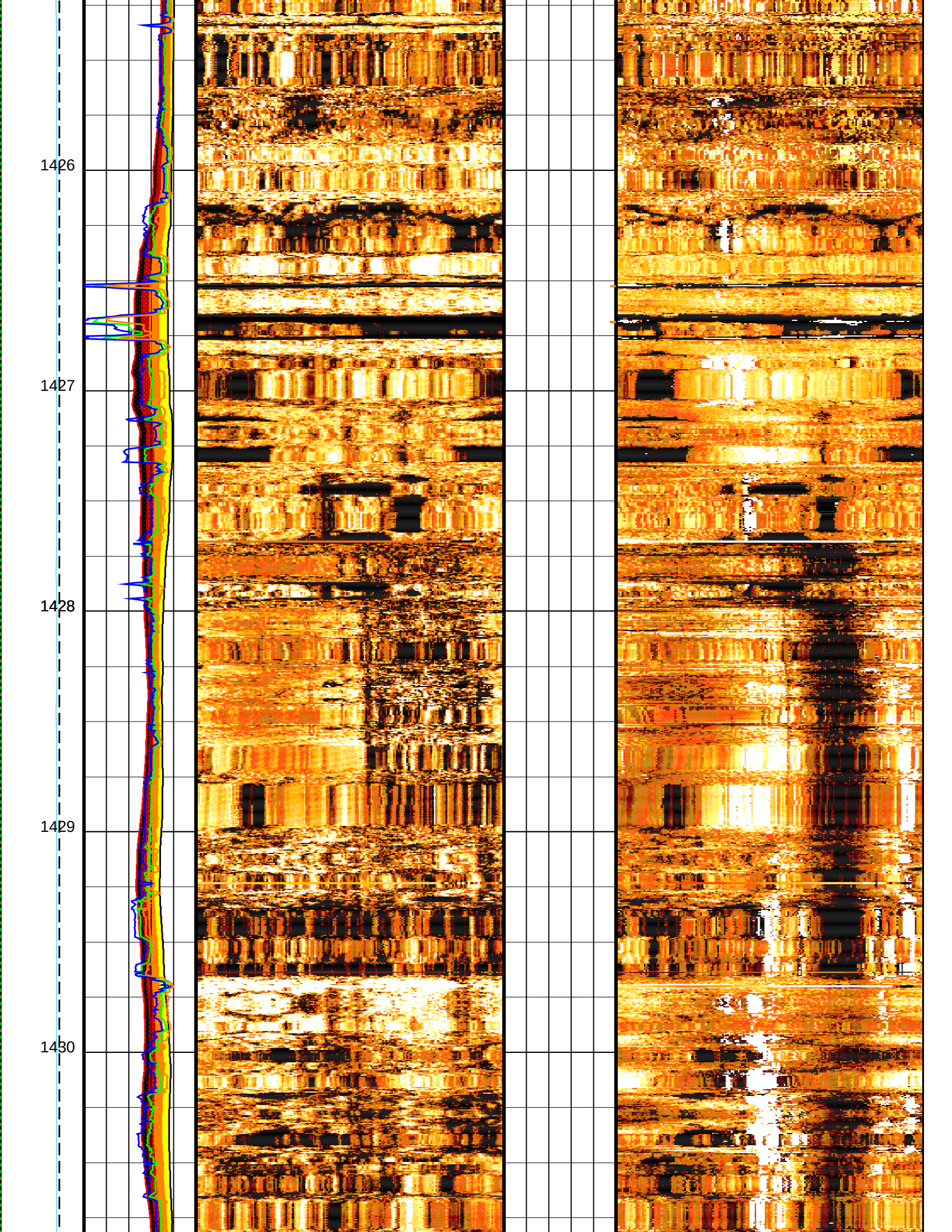
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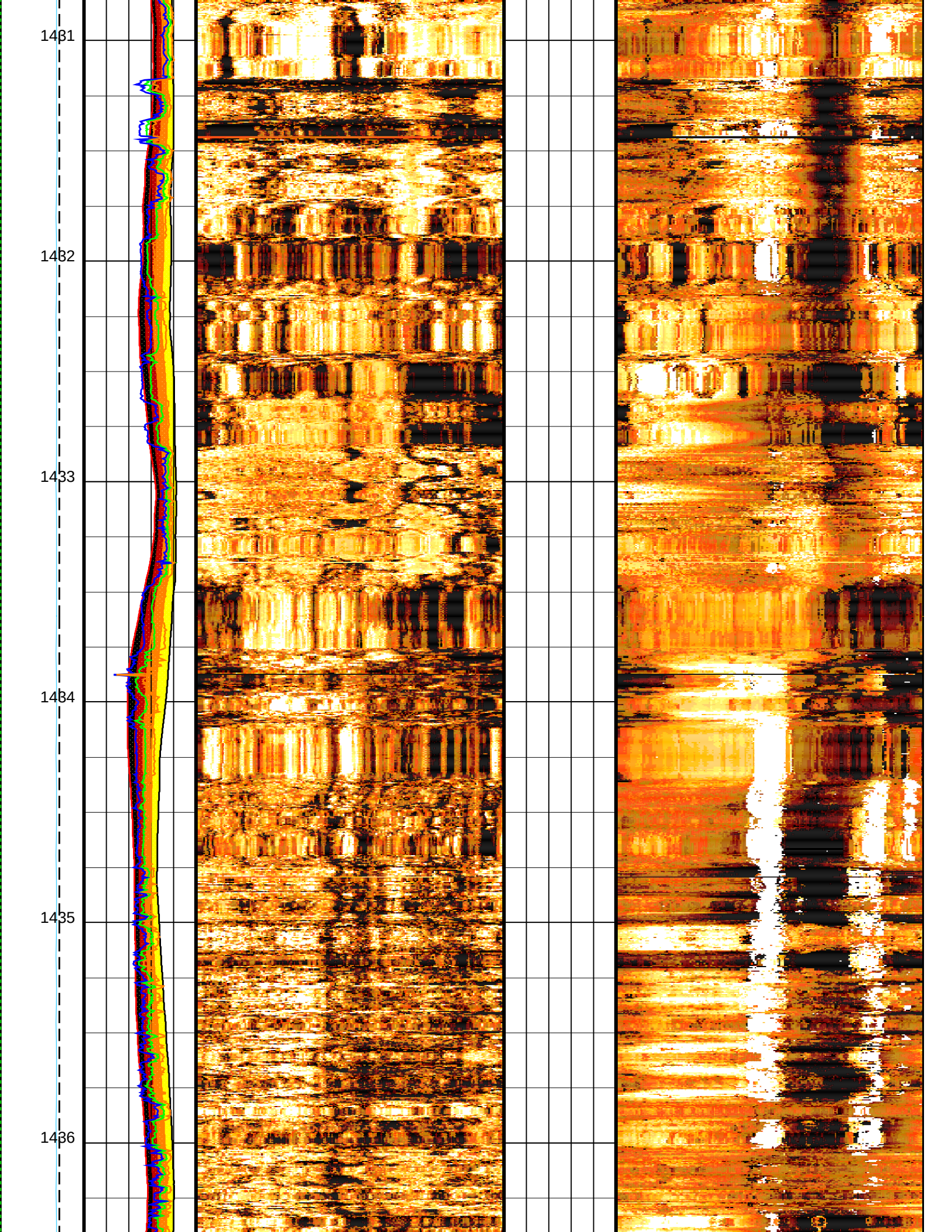
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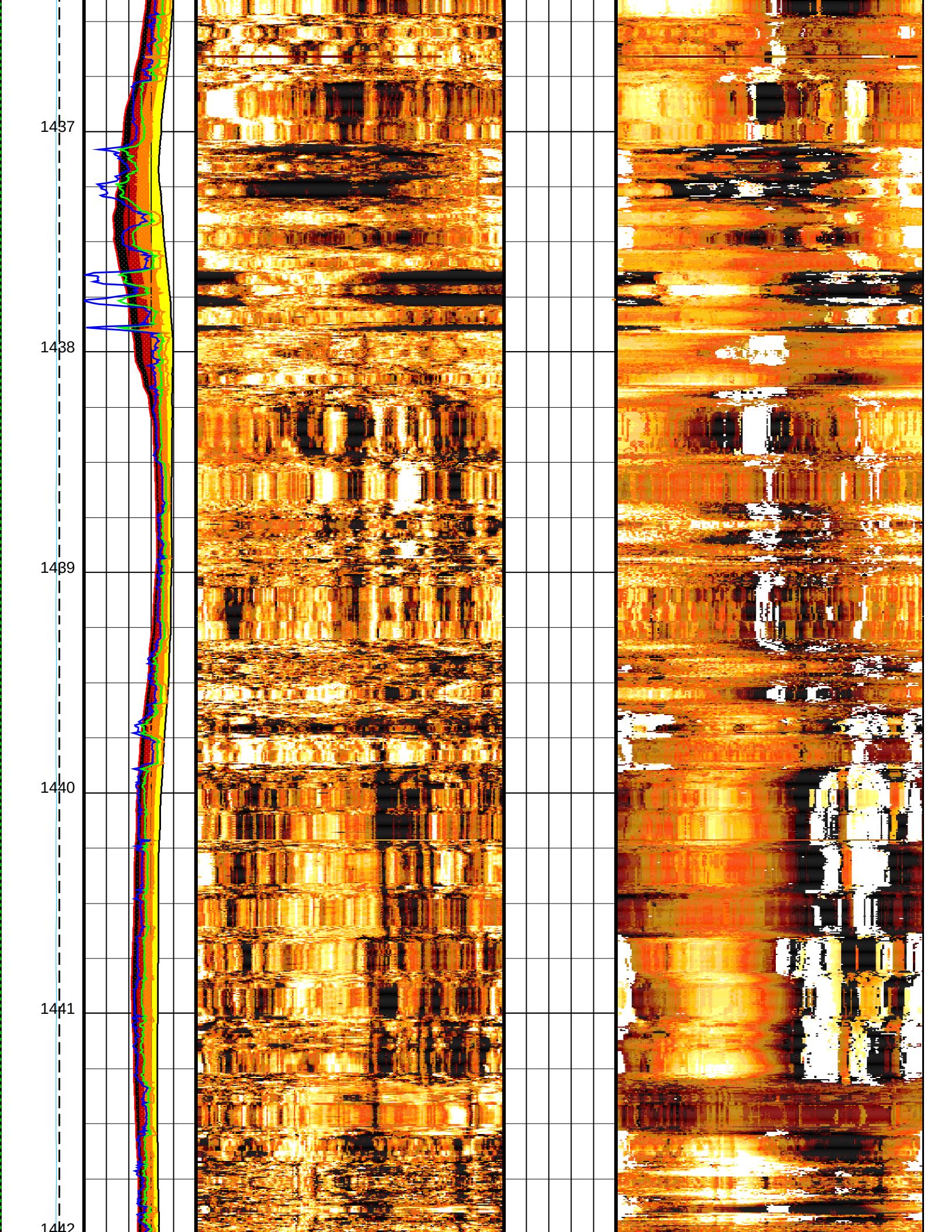
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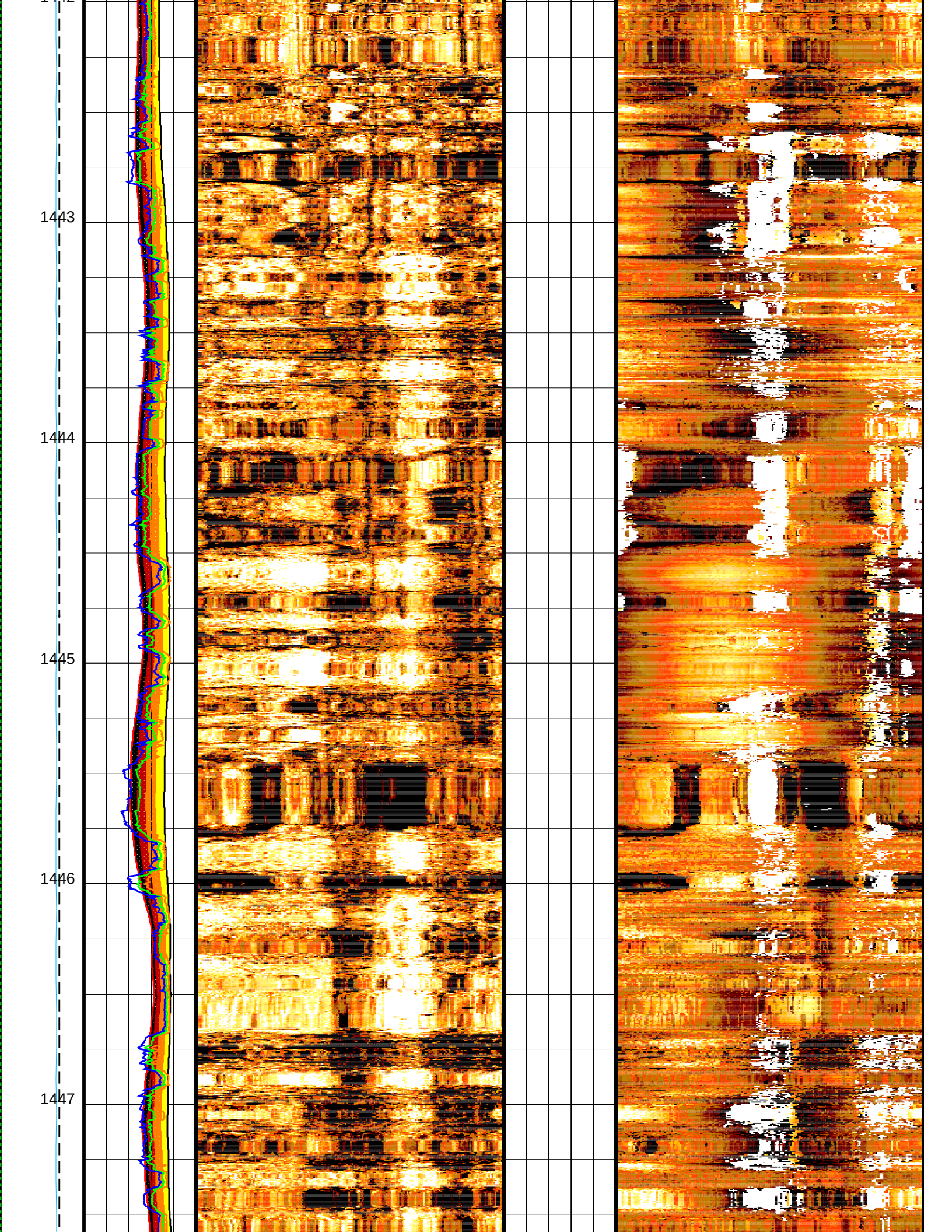
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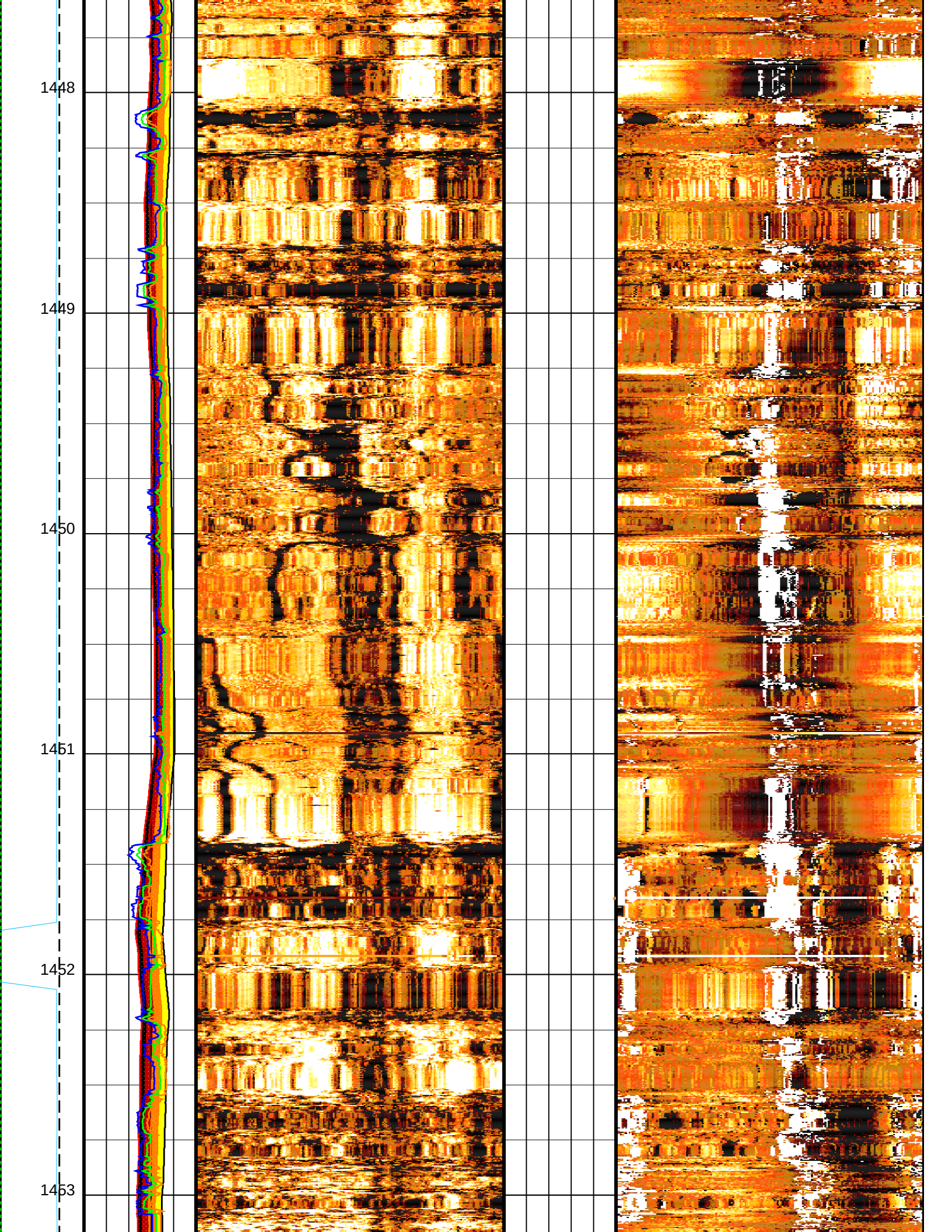
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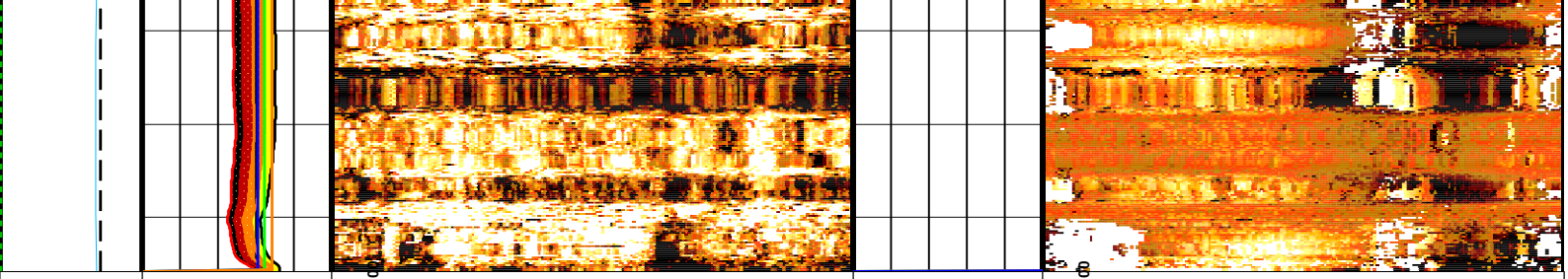


Rev. speed (RSAV)	LOW Amplitude (FA25)	Corrected Amplitude (AWCN) (DB)	MEDIAN Radius (FTED)	Corrected transit time (TTCN) (US)
6 (RPS) 8	0 (DB) 50	−500.0000 0.0000 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000	3 (IN) 4.5	−500.0000 0.0000 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000
Cable Speed (CS) (M/HR)	Min. of Amplitude (UAMN)		Radius LOW (FT25)	
0 150000	0 (DB) 50		3 (IN) 4.5	
Fluid velocity (CFVL) (US/M)	Maximum of Amplitude (UAMX)		Radius HIGH (FT75)	
450 750	0 (DB) 50		3 (IN) 4.5	
	MEDIAN of Amplitude (FAED)		Radius min (UTMN)	
	0 (DB) 50		3 (IN) 4.5	
	HIGH Amplitude (FA75)		Radius max (UTMX)	
	0 (DB) 50		3 (IN) 4.5	

Format: UBI_Image **Vertical Scale: 1:20** **Graphics File Created: 10−Sep−2021 00:22**

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Parameters

DLIS Name	Description	Value	
	UBI−D: Ultrasonic Borehole Imager − D		
AAMN	Automatic Amplitude Minimum Scale	2	DB
ANGO	Angular Offset	−17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
CSID	Casing Inner Diameter	4.125	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	201	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_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN

USTO	Ultrasonic Time Offset	−3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI7_SW500_180_1	
UHSV: UBI Hole Shape Analysis			
AAMN	Automatic Amplitude Minimum Scale	2	DB
ANGO	Angular Offset	−17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
CSID	Casing Inner Diameter	4.125	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	201	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_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
USTO	Ultrasonic Time Offset	−3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI7_SW500_180_1	
System and Miscellaneous			
BS	Bit Size	9.875	IN

Output DLIS Files

DEFAULT	UBI_NGS_045LUP	FN:58	PRODUCER	10−Sep−2021 00:22	
RTB	UBI_NGS_045LUP	FN:59	PRODUCER	10−Sep−2021 00:22	

Schlumberger

Second Pass

MAXIS Field Log

Company: International Ocean Discovery Program **Well: Expedition 396, Site U1571A**

Output DLIS Files

DEFAULT	UBI_NGS_046LUP	FN:60	PRODUCER	10−Sep−2021 01:27	1453.9 M	1208.1 M
RTB	UBI_NGS_046LUP	FN:61	PRODUCER	10−Sep−2021 01:27	1453.9 M	1208.1 M

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

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

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

HNGS Det.1 Resolution Degradation Factor (RDF1)
0 (----) 10

HNGS Det.2 Gain Correction Factor (GCF2)
0.9 (----) 1.1

HNGS Det.1 Gain Correction Factor (GCF1)
0.9 (----) 1.1

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 150

Caliper (BS)
6 (IN) 16

Bit Size (BS)
6 (IN) 16

HNGS Borehole Potassium (HBHK)
−0.05 (V/V) 0.05

HNGS Det.2 Chi Squared (CHI2)
10 (----) 0

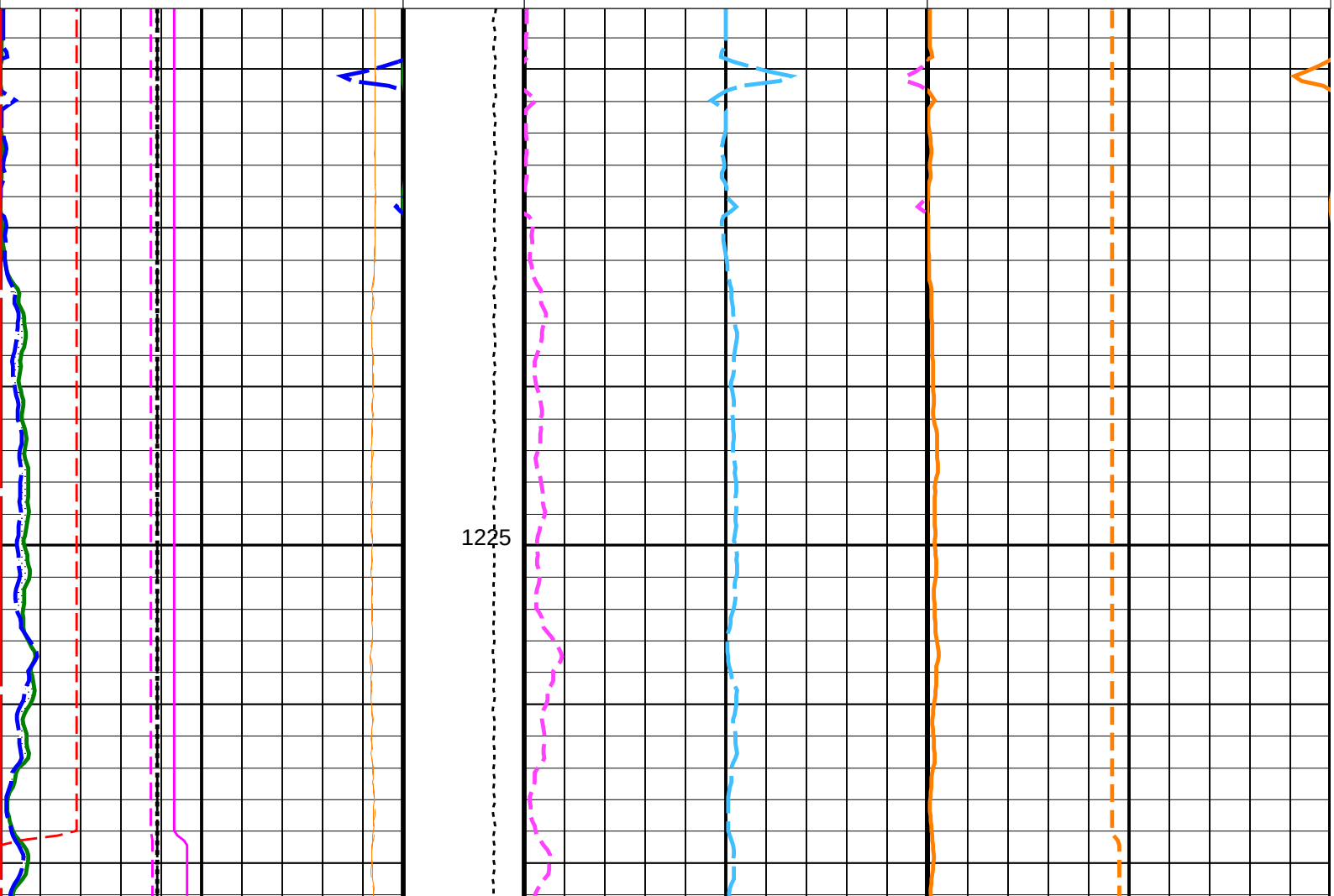
HNGS Uranium (HURA)
−10 (PPM) 30

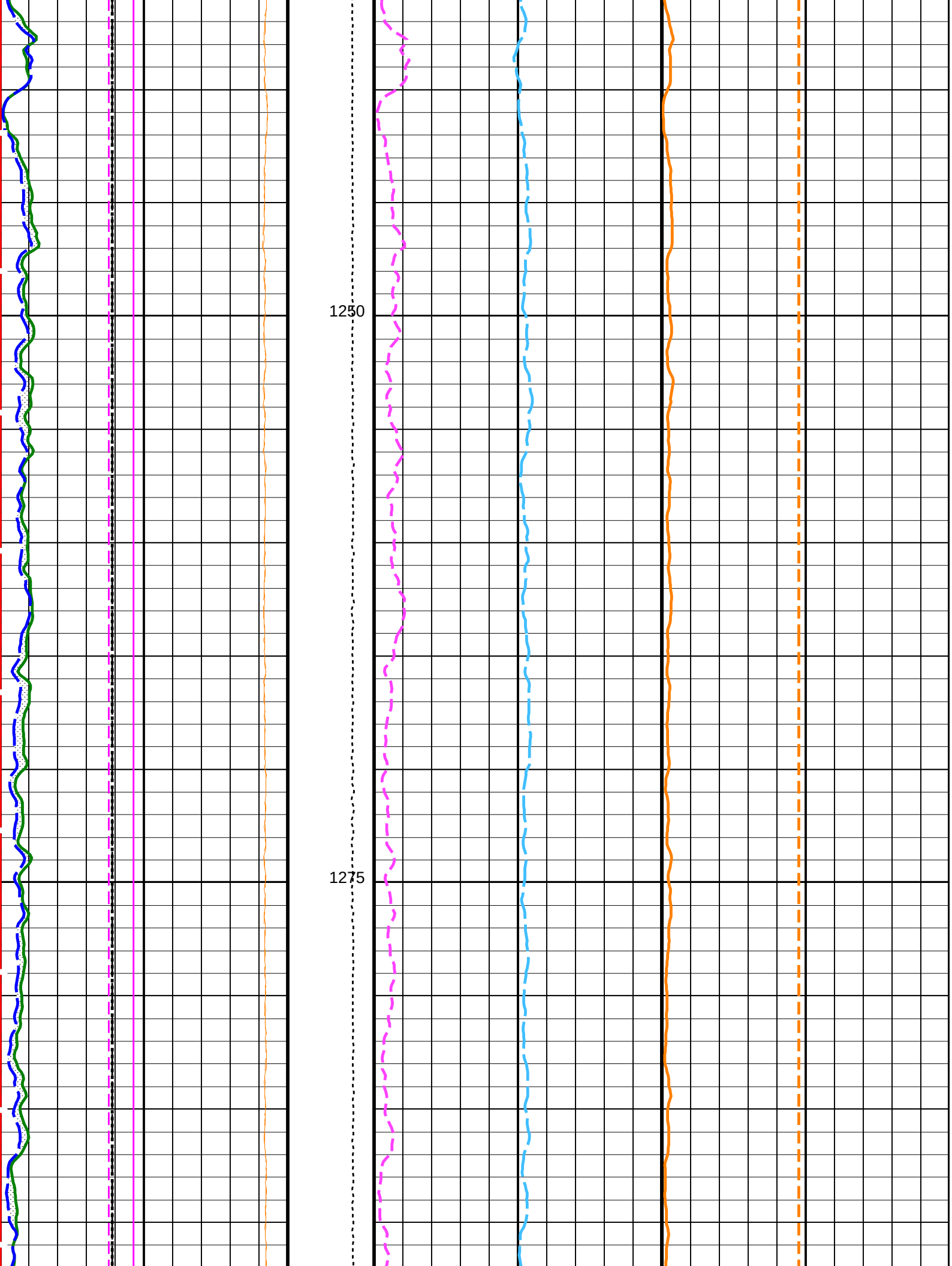
HNGS Det.1 Chi Squared (CHI1)
10 (----) 0

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 30

HNGS Potassium (HFK)
0 (V/V) 0.1

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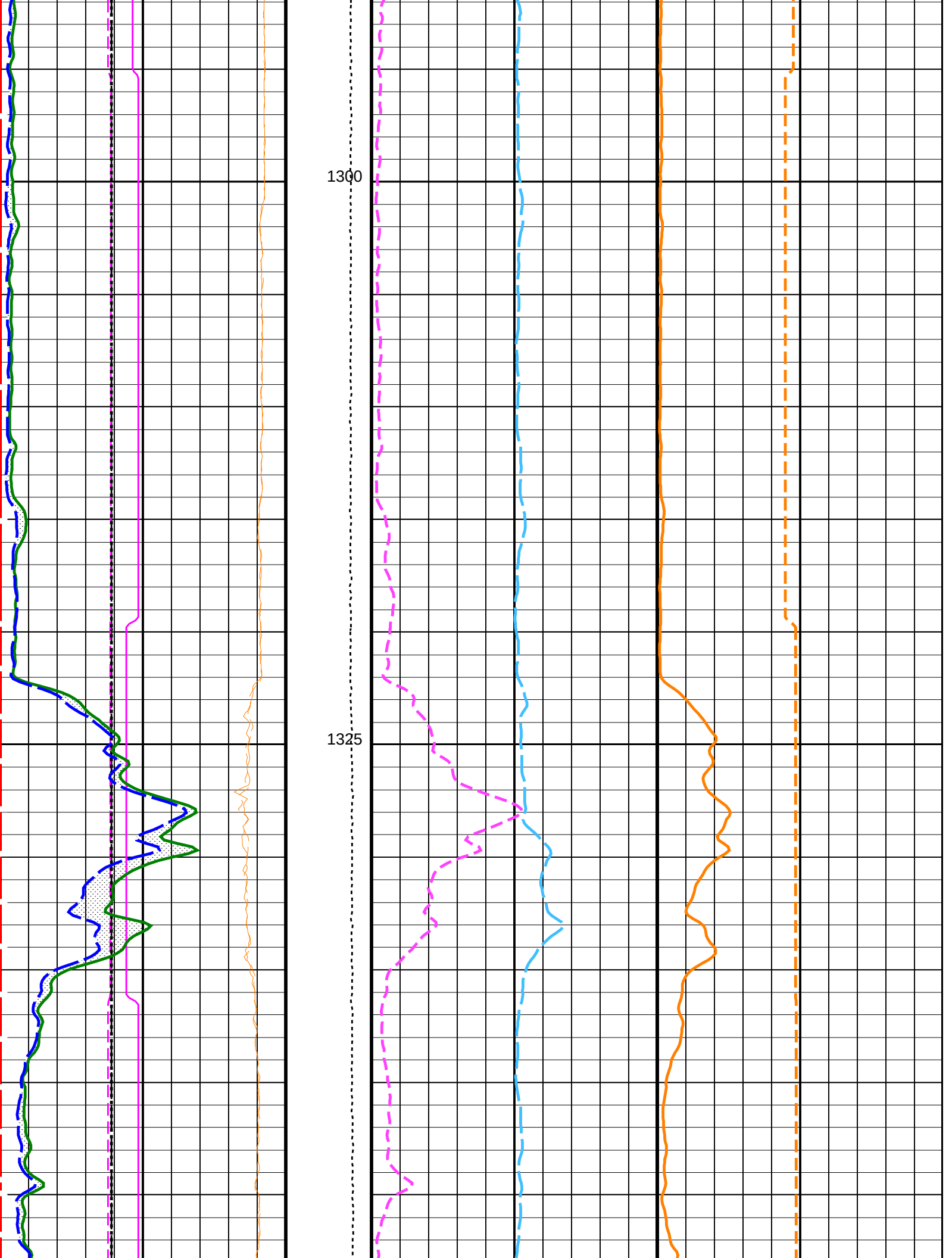
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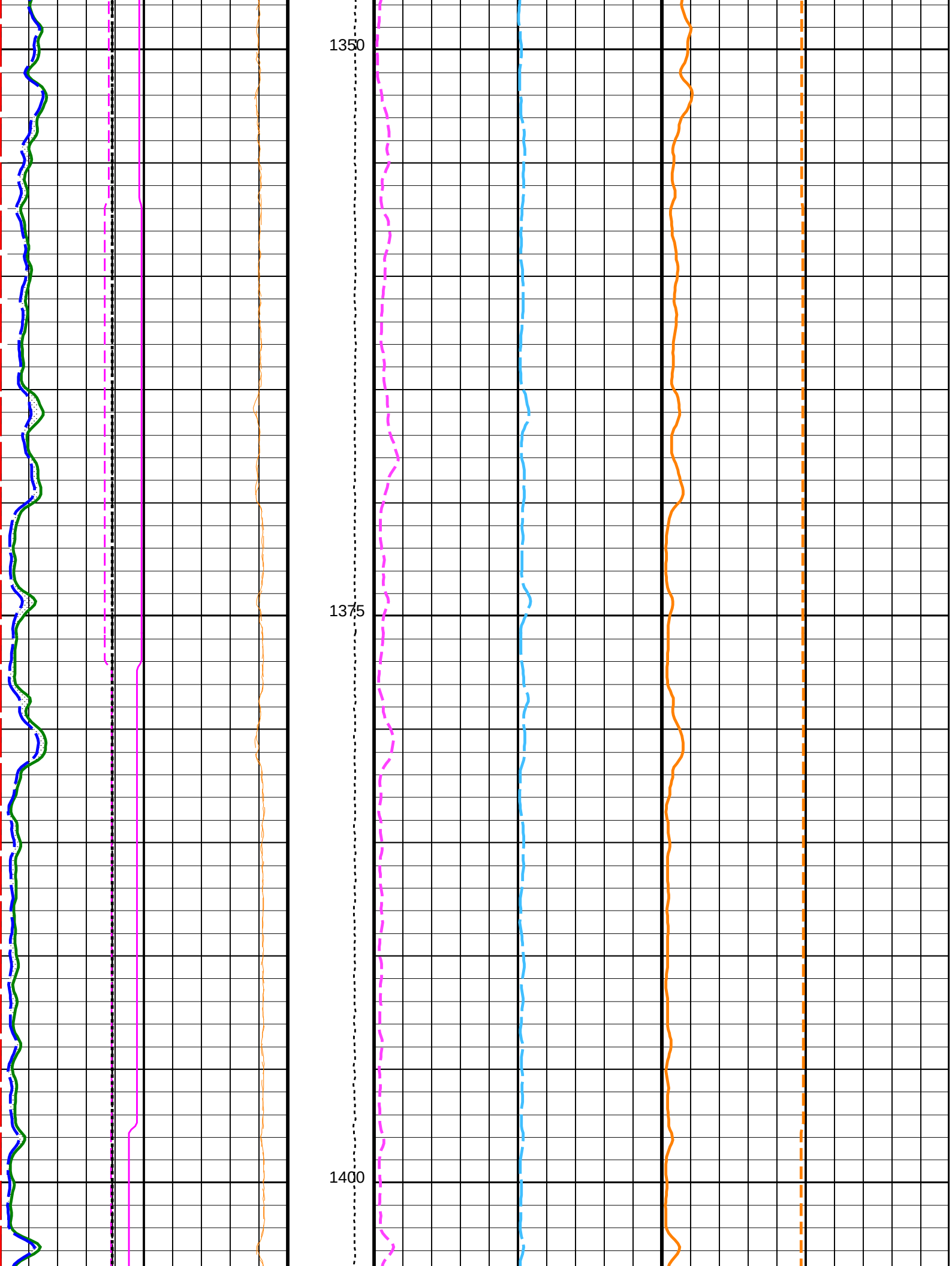
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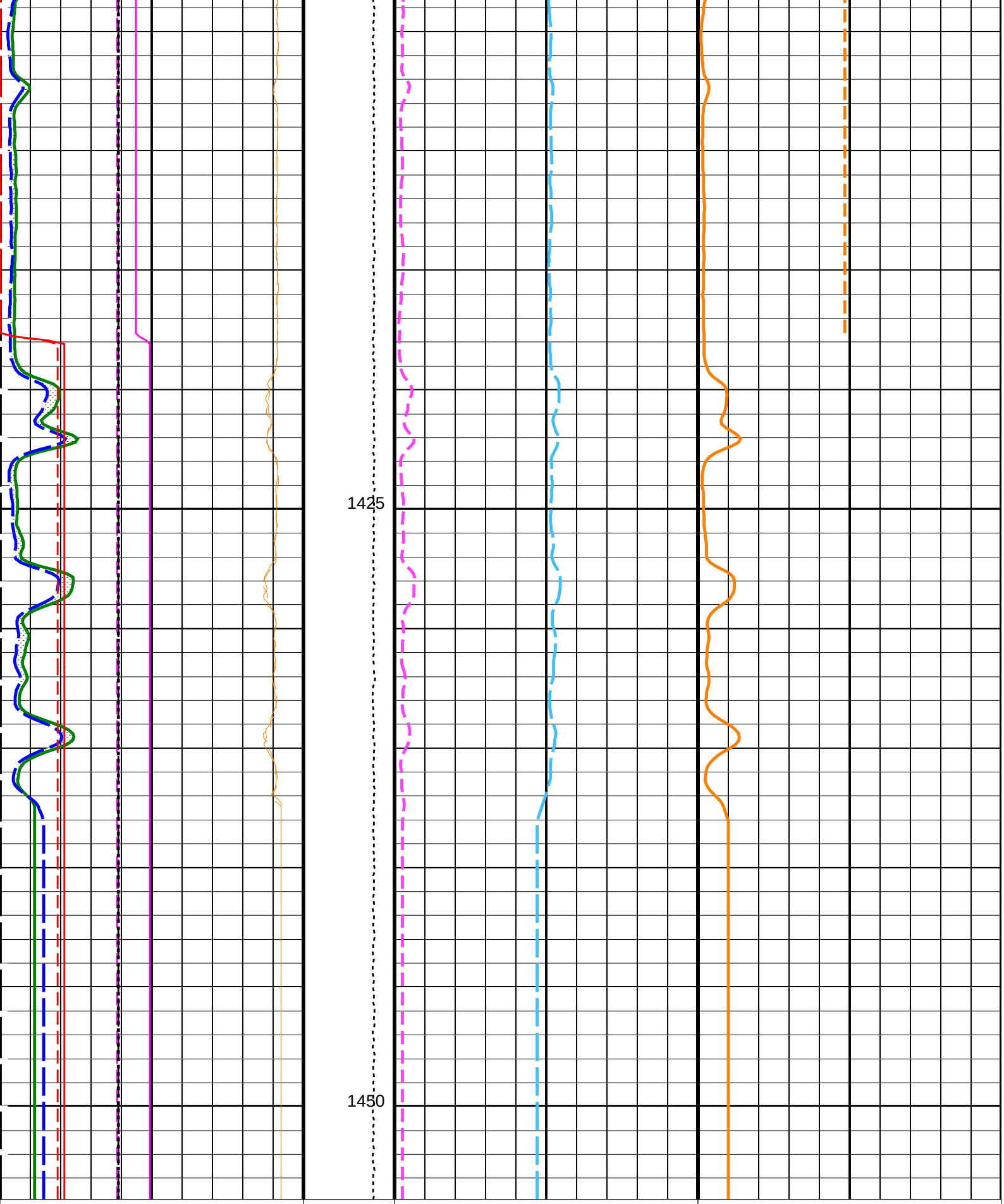

HNGS Det.1 Chi Squared (CHI1)
10 (----) 0

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 30

HNGS Potassium (HFK)
0 (V/V) 0.1

HNGS Det.2 Chi Squared (CHI2)
10 (----) 0

HNGS Uranium (HURA)
−10 (PPM) 30

Bit Size (BS)		
6	(IN)	16

Caliper (BS)		
6	(IN)	16

HNGS Computed Gamma Ray (HCGR)		
0	(GAPI)	150

Area1
From HCGR to HSGR

HNGS Det.1 Gain Correction Factor (GCF1)		
0.9	(----)	1.1

HNGS Det.2 Gain Correction Factor (GCF2)		
0.9	(----)	1.1

HNGS Det.1 Resolution Degradation Factor (RDF1)		
0	(----)	10

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

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

HNGS Borehole Potassium (HBHK)		
−0.05	(V/V)	0.05

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00141735	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma−Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.09016	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.10759	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.05	G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 10−Sep−2021 01:27

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Output DLIS Files

DEFAULT	UBI_NGS_046LUP	FN:60	PRODUCER	10−Sep−2021 01:27	
RTB	UBI_NGS_046LUP	FN:61	PRODUCER	10−Sep−2021 01:27	

Company: International Ocean Discovery Program | Well: Expedition 396, Site U1571A

Output DLIS Files

DEFAULT	UBI_NGS_046LUP	FN:60	PRODUCER	10−Sep−2021 01:27	1453.9 M	1208.1 M
RTB	UBI_NGS_046LUP	FN:61	PRODUCER	10−Sep−2021 01:27	1453.9 M	1208.1 M

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
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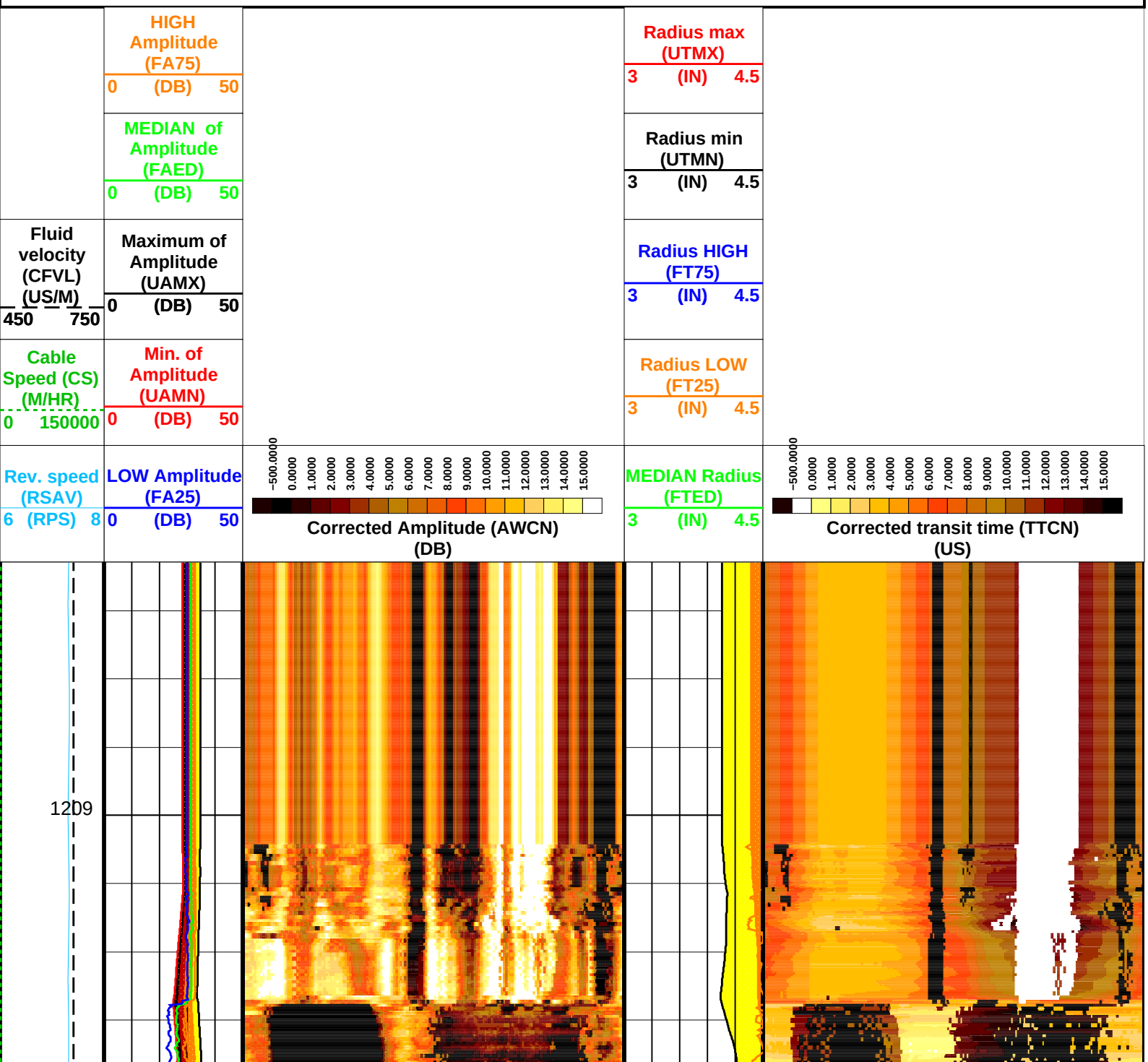
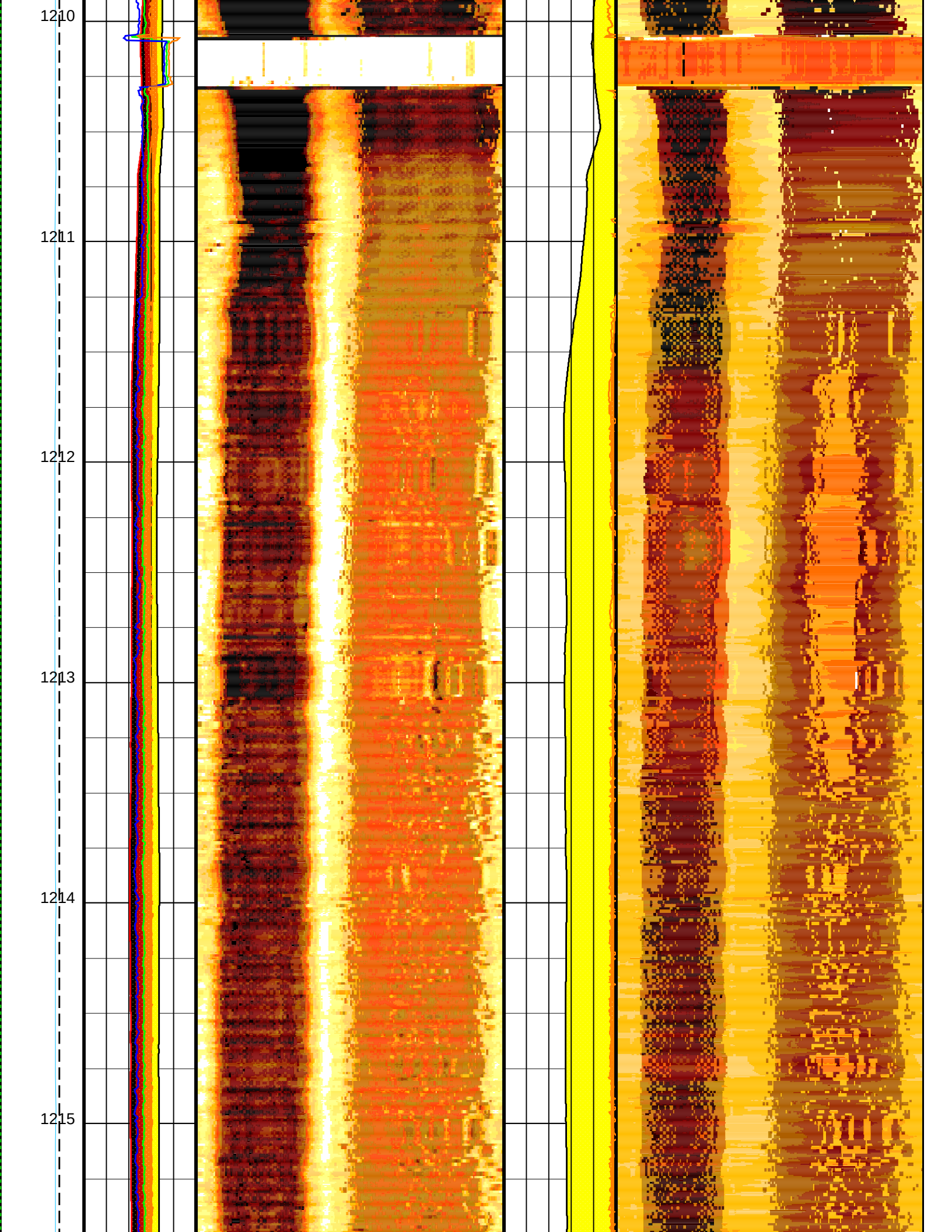
HNGS−BA	19C0−187	DTC−H	19C0−187

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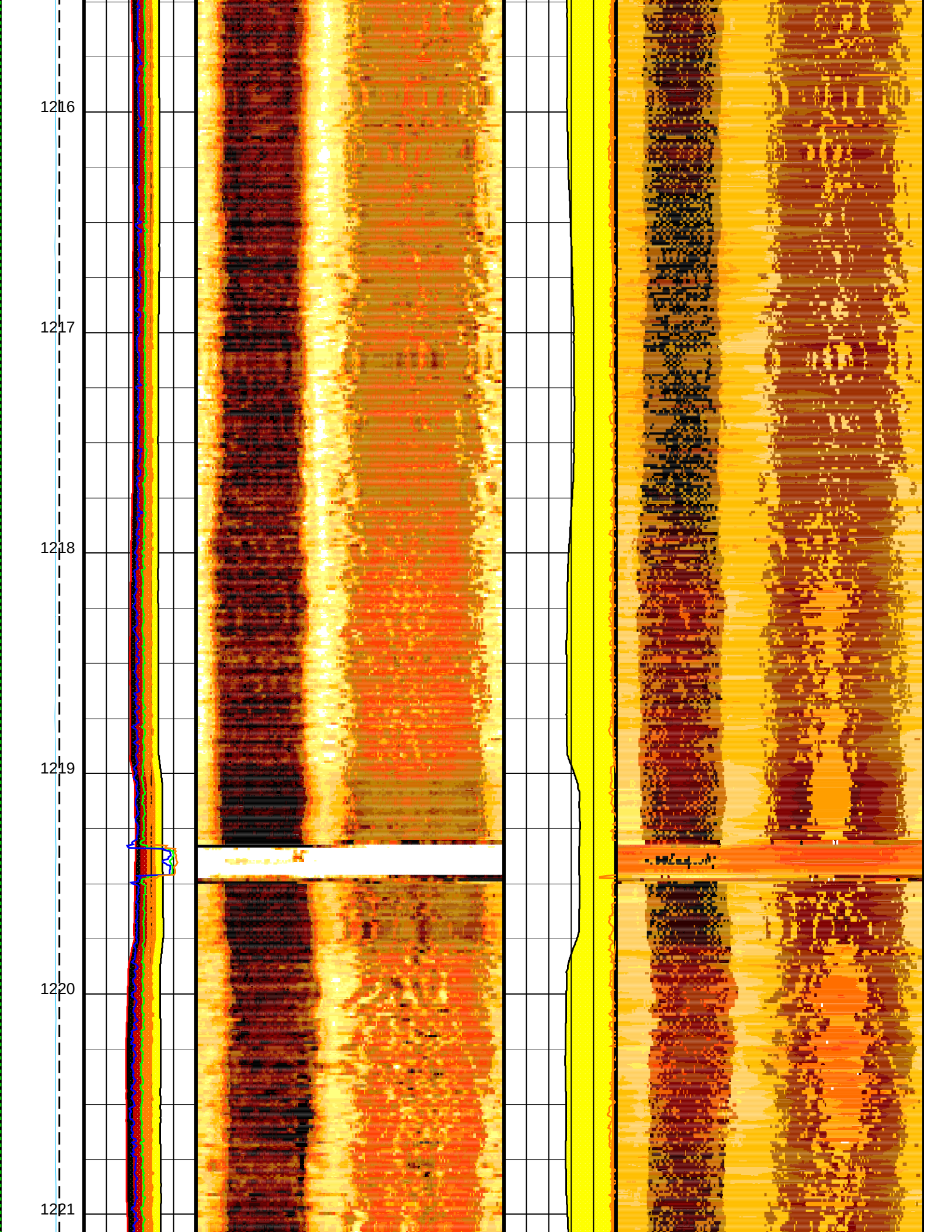
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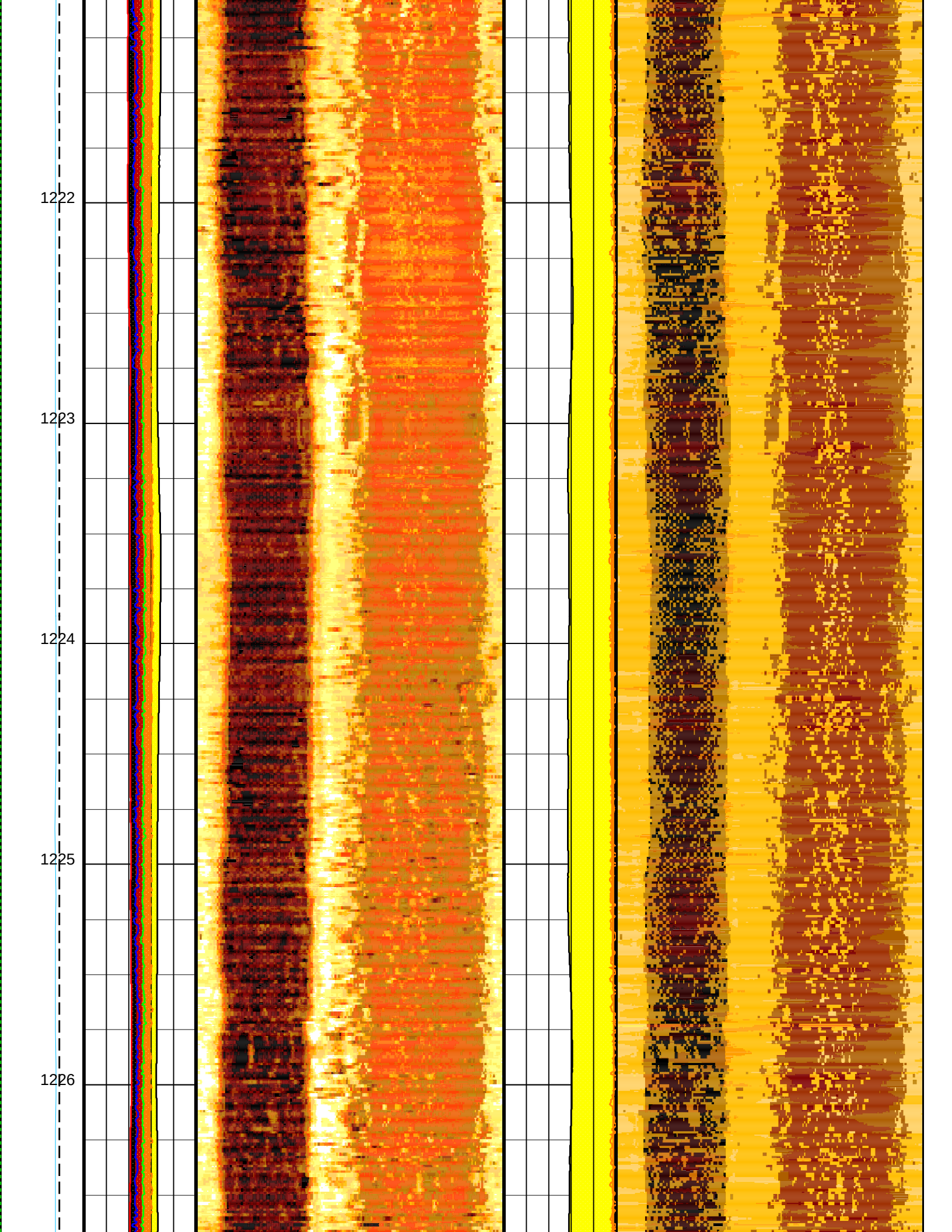
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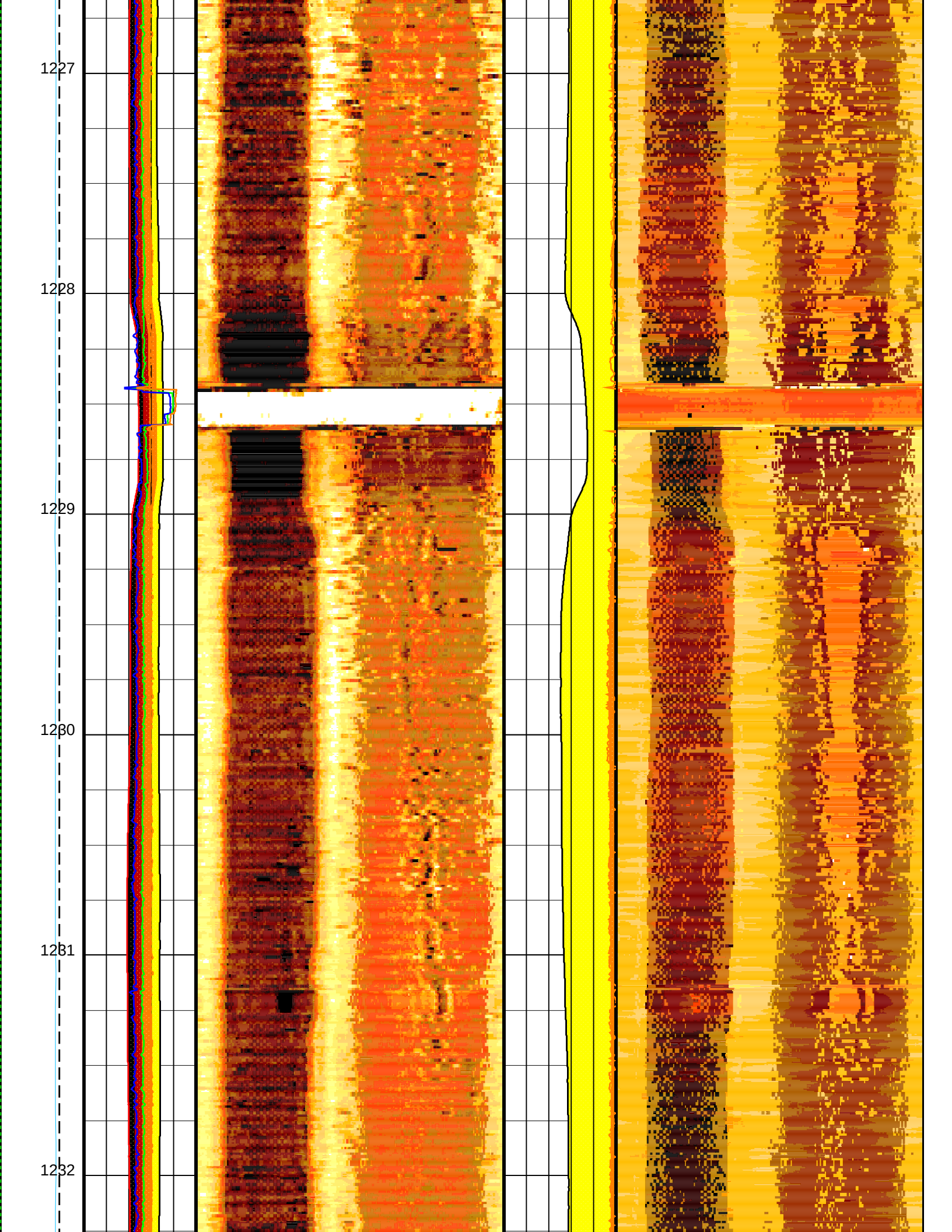
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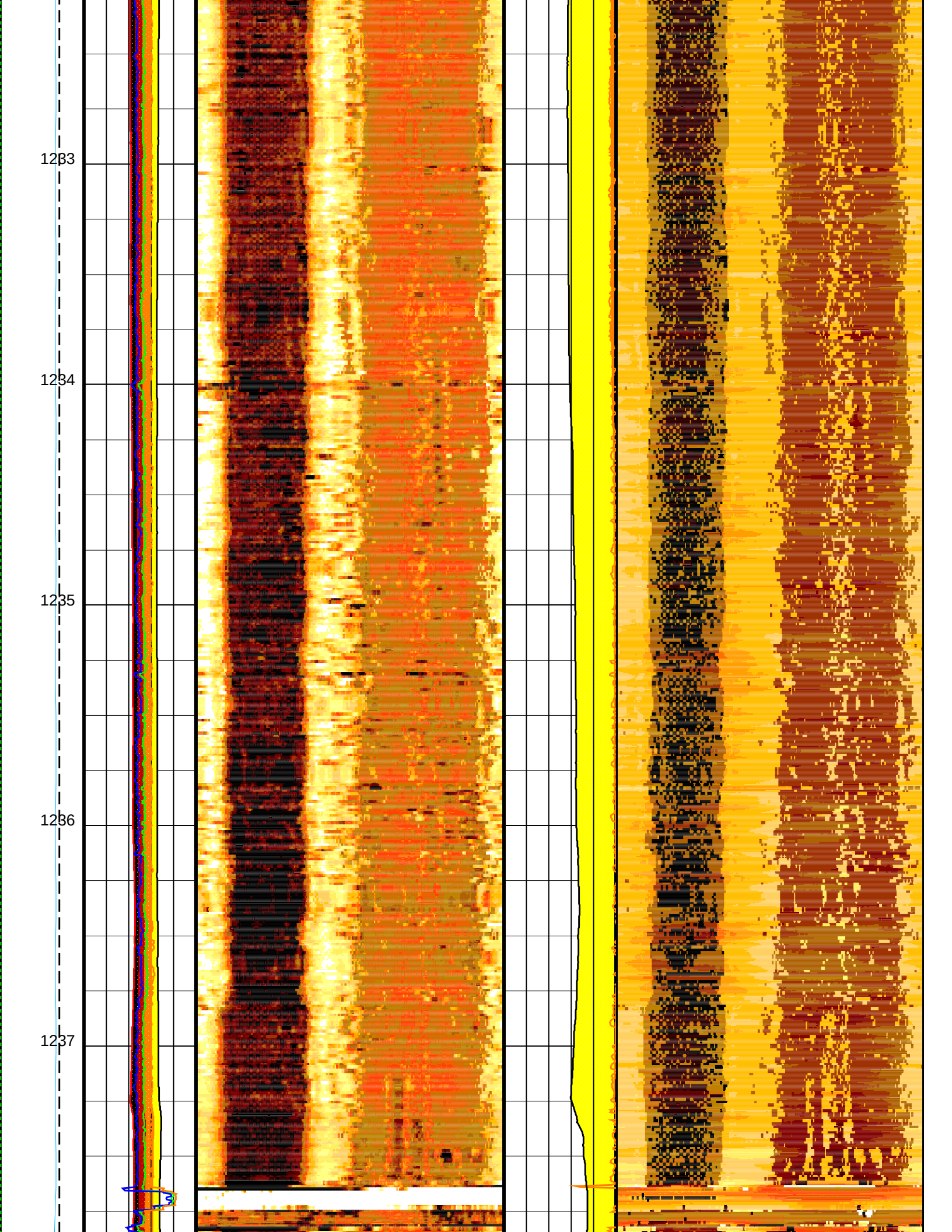
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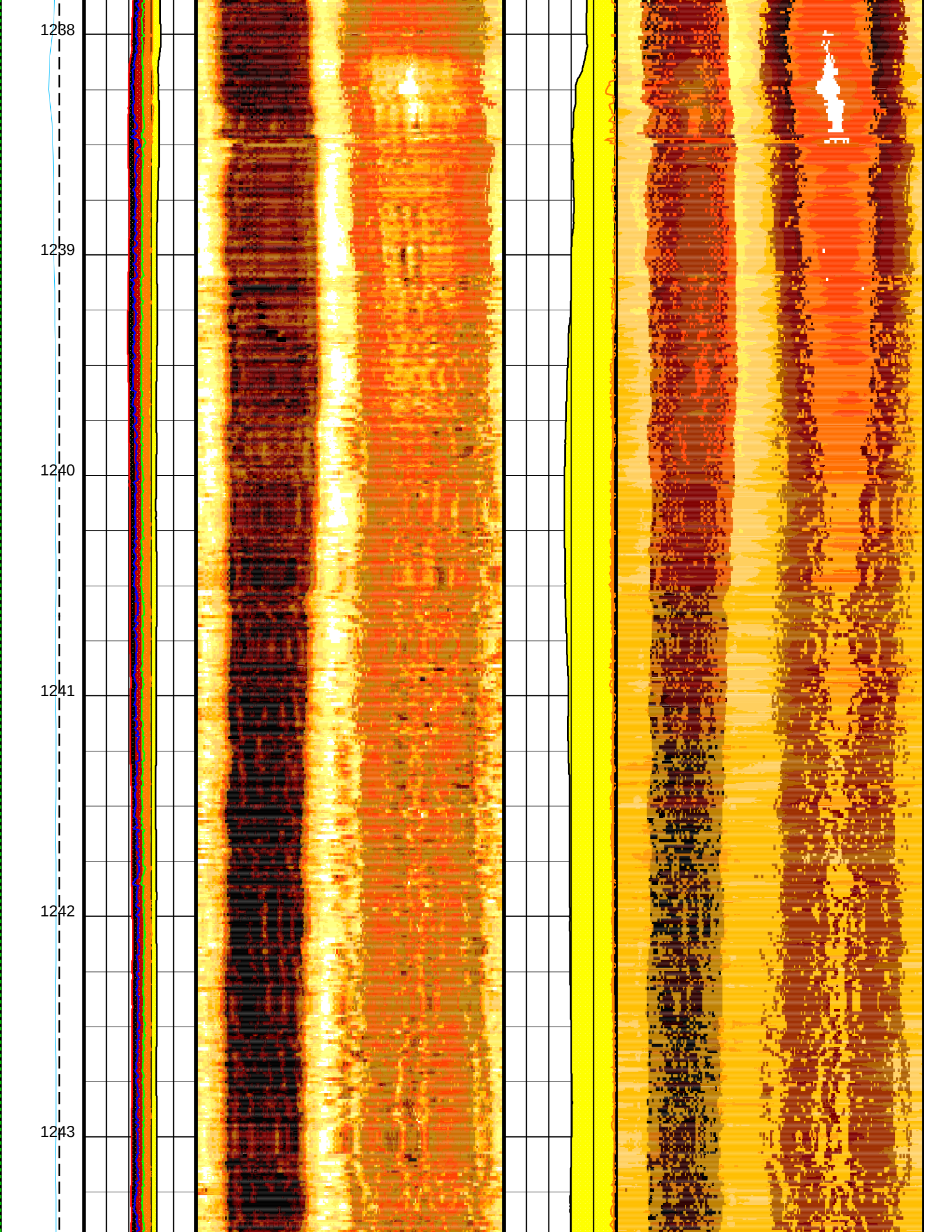
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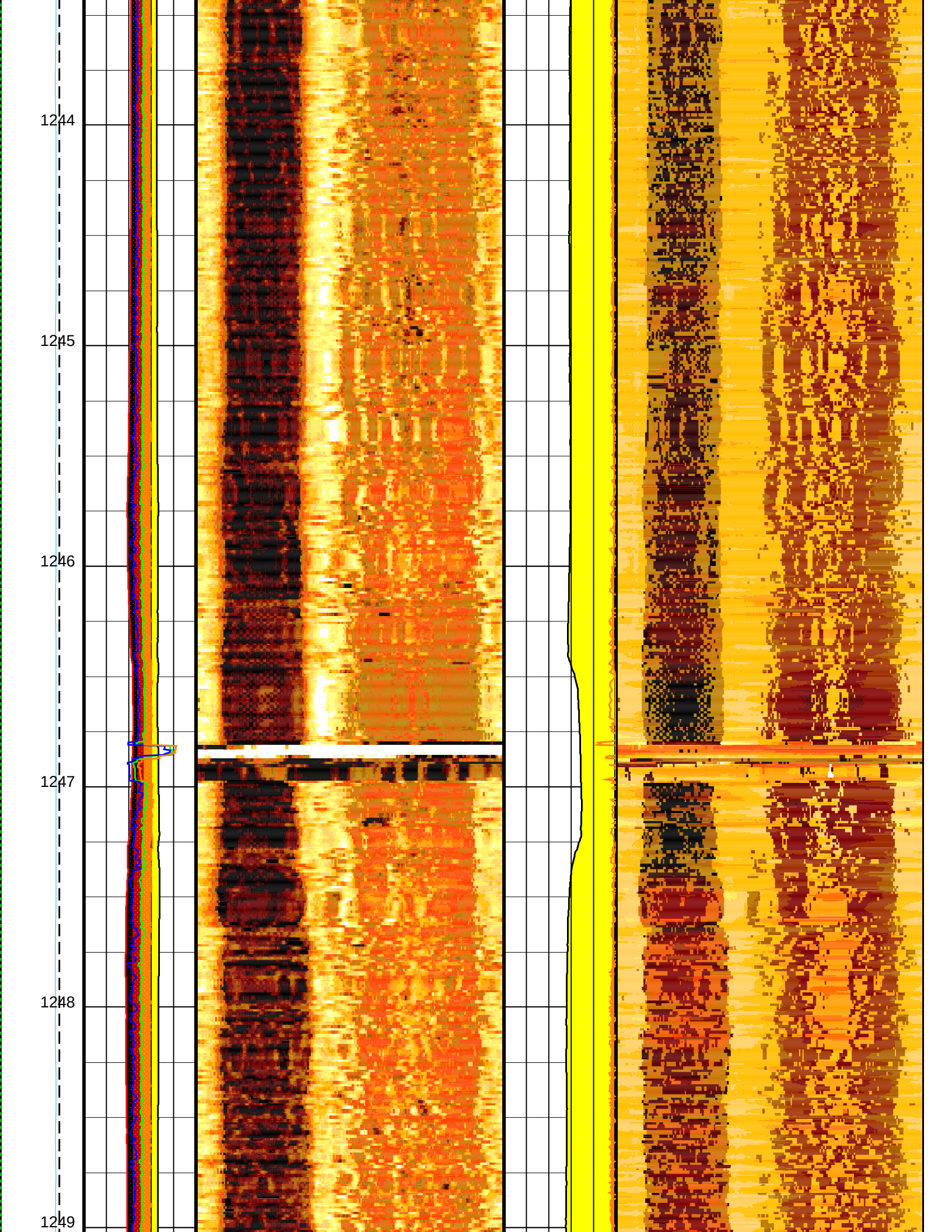
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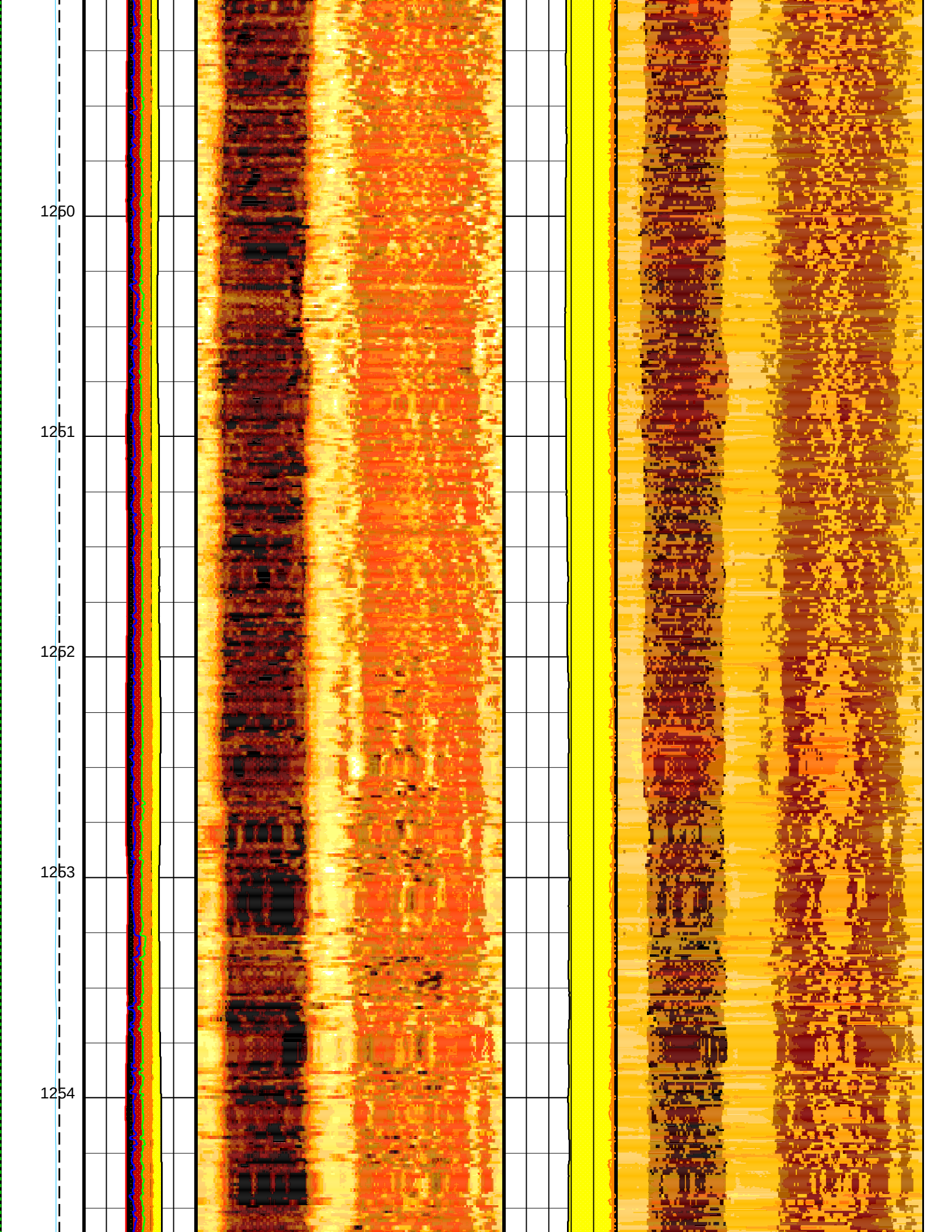
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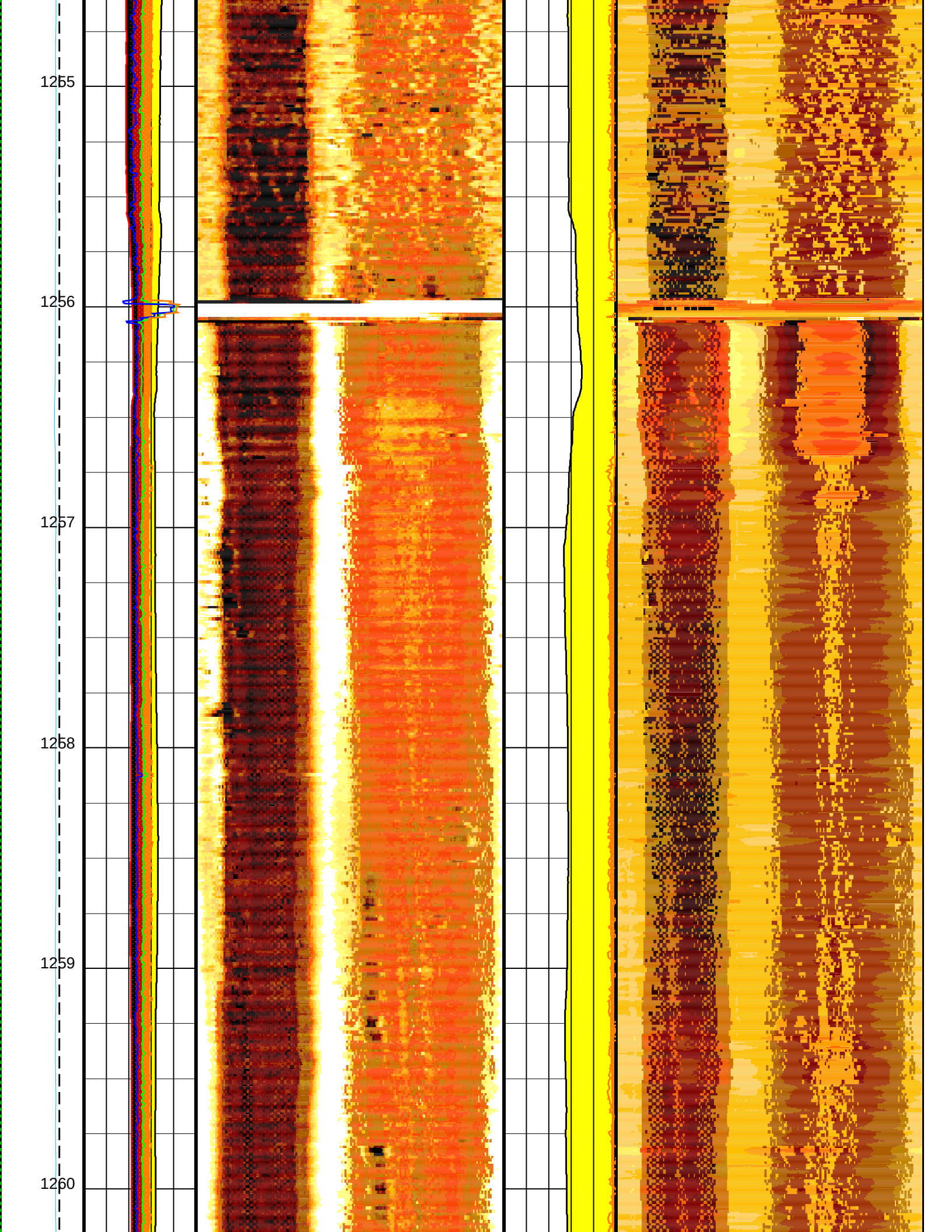
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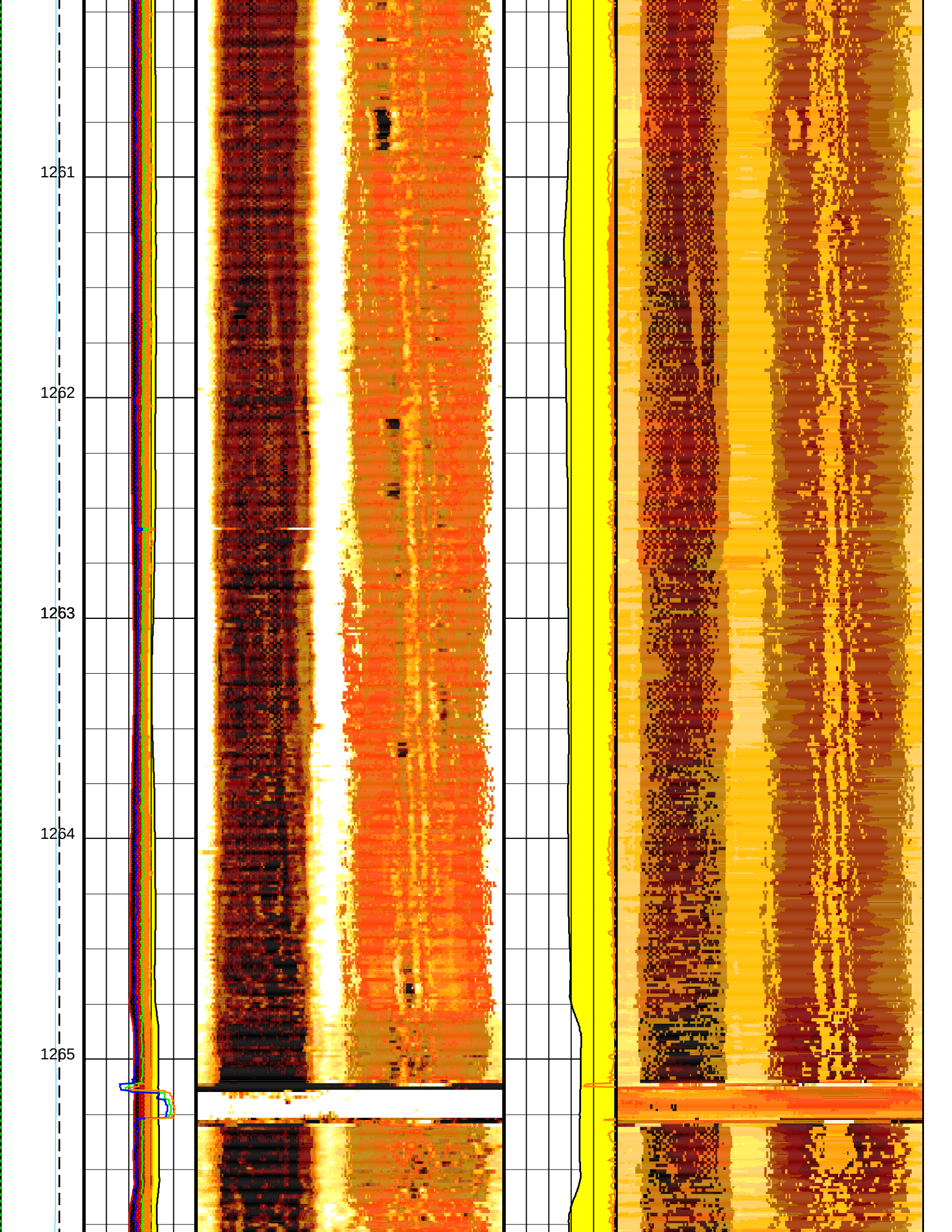
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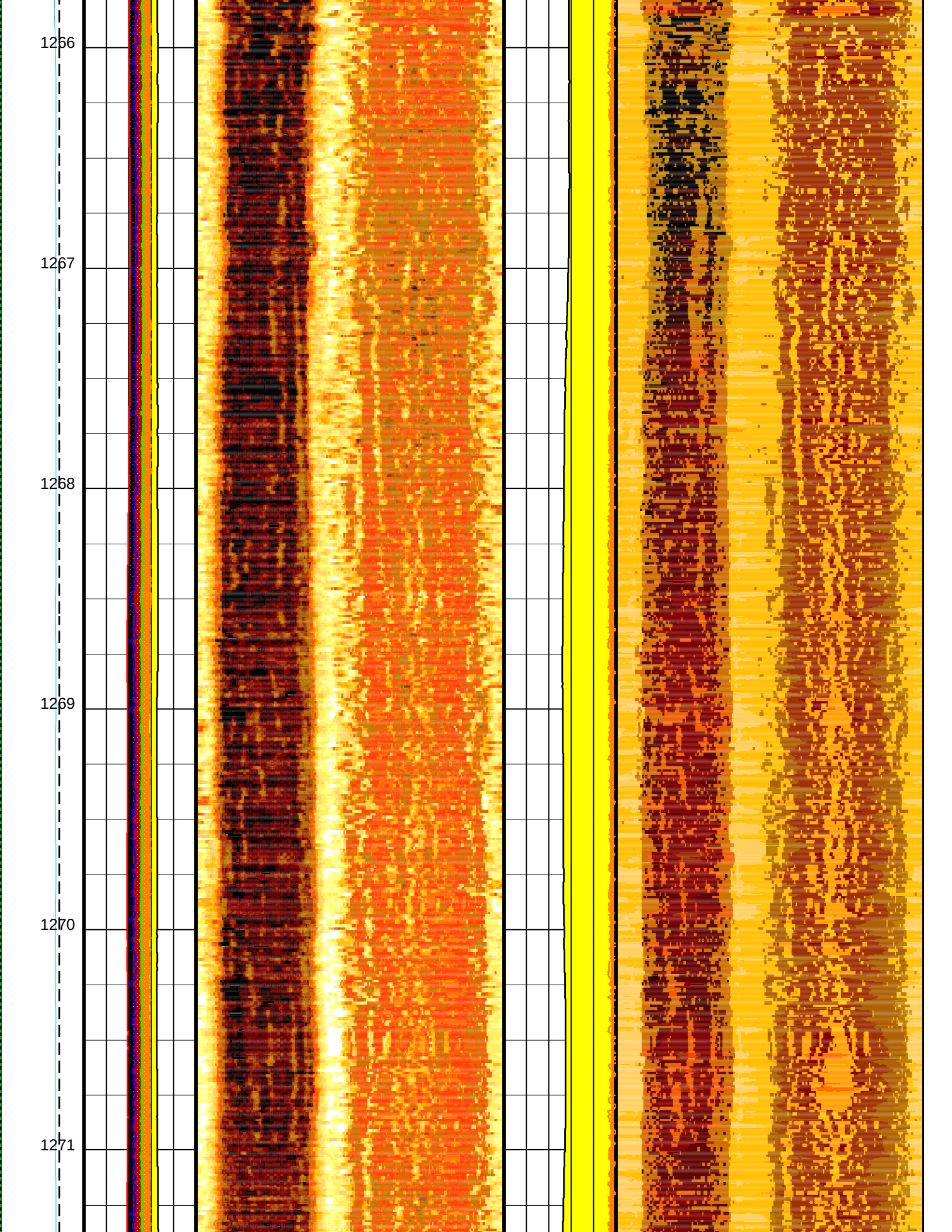
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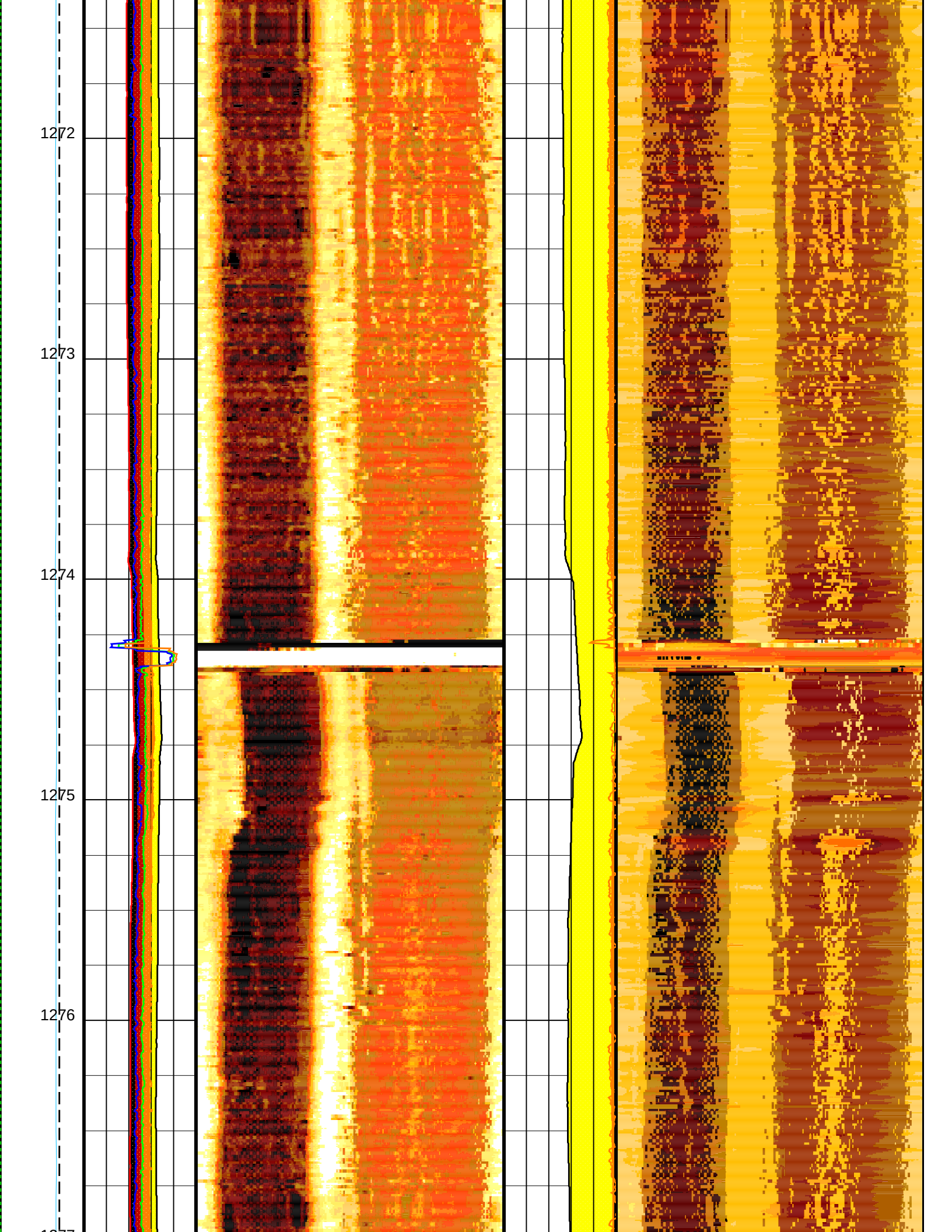
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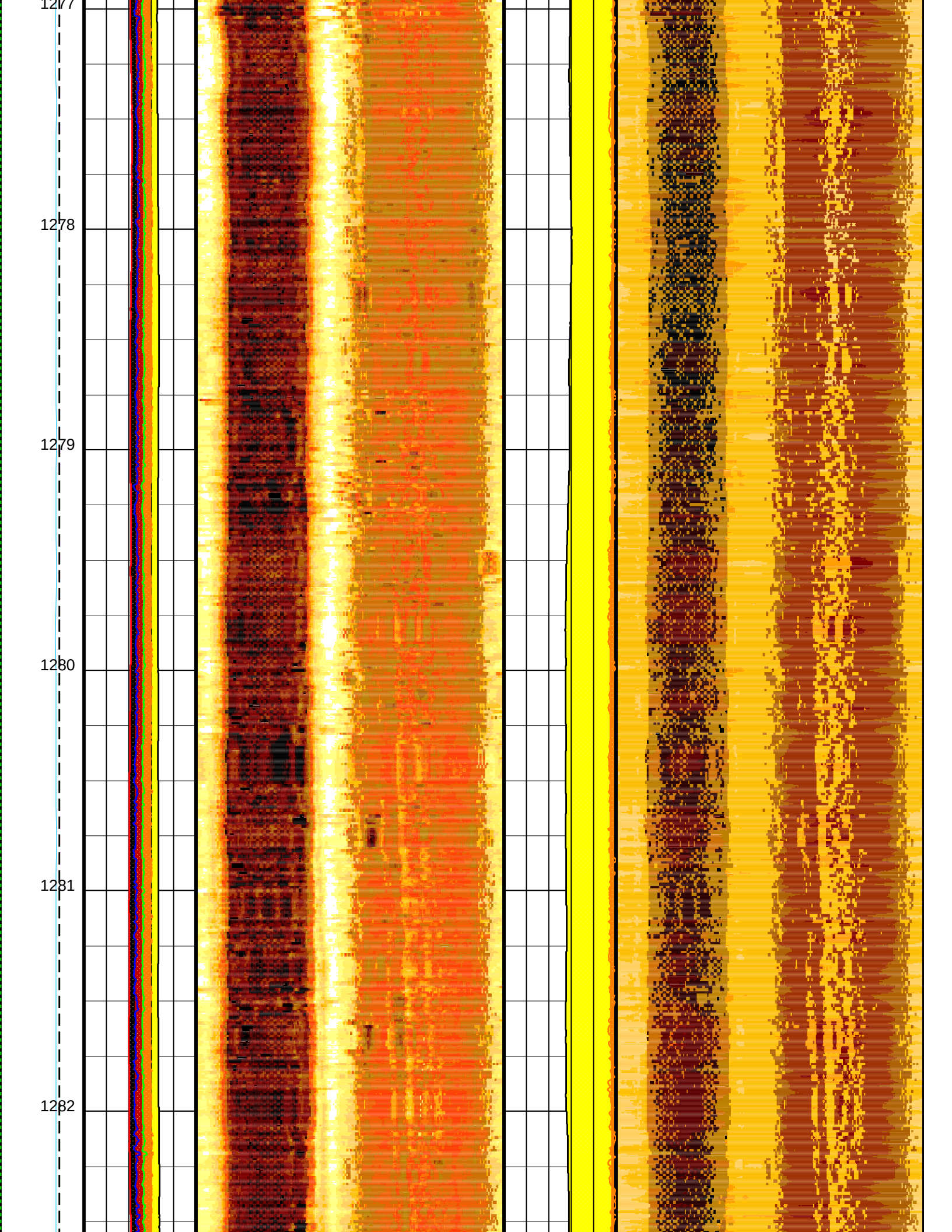
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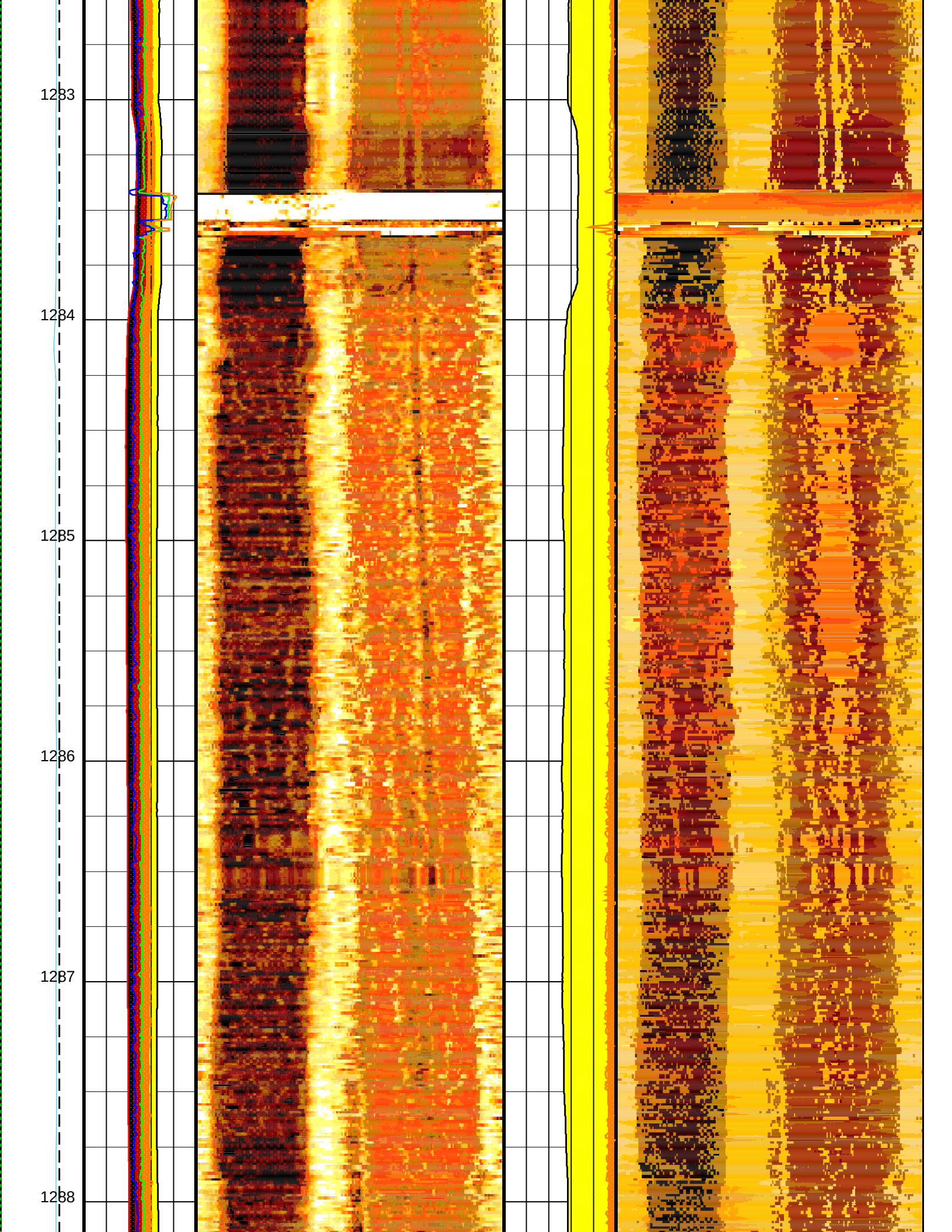
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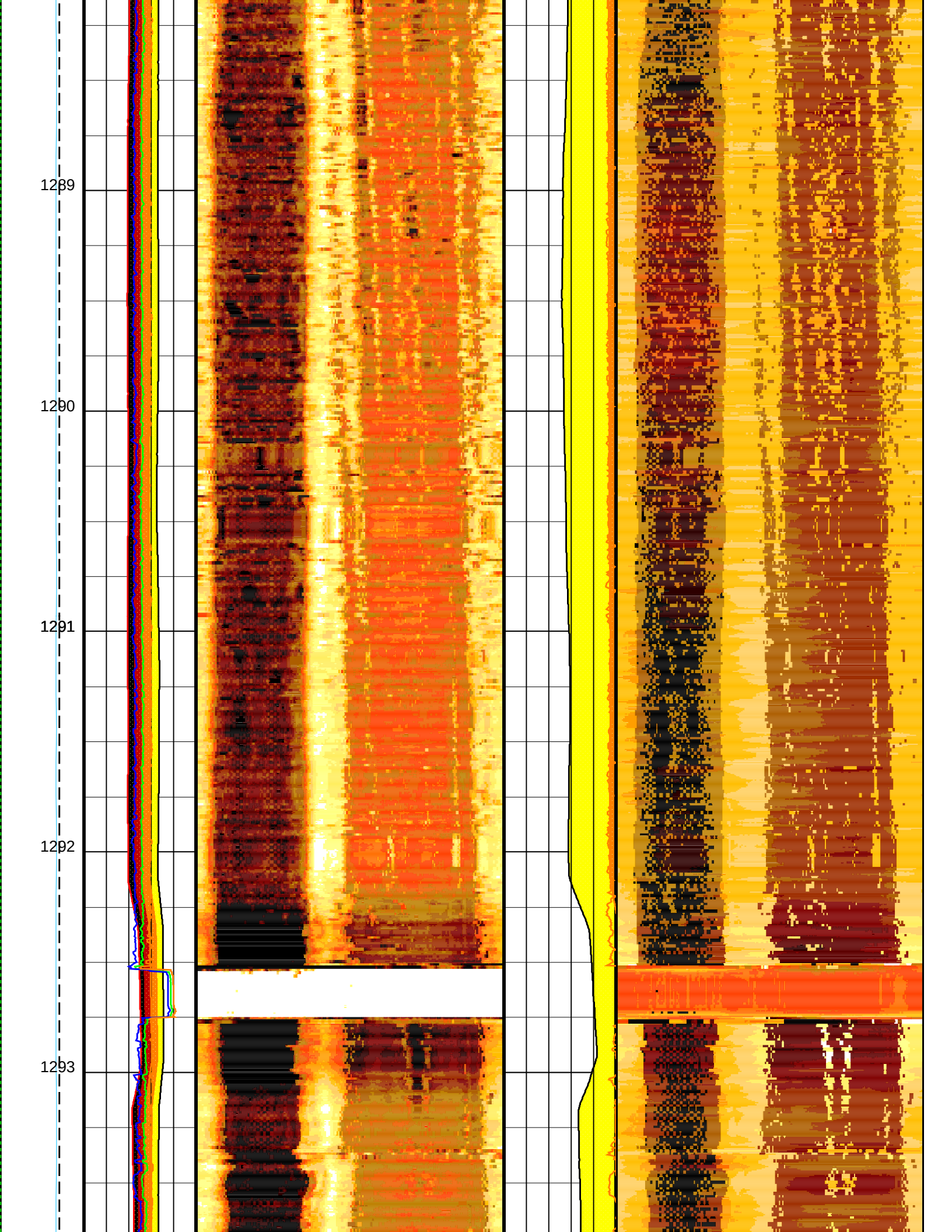
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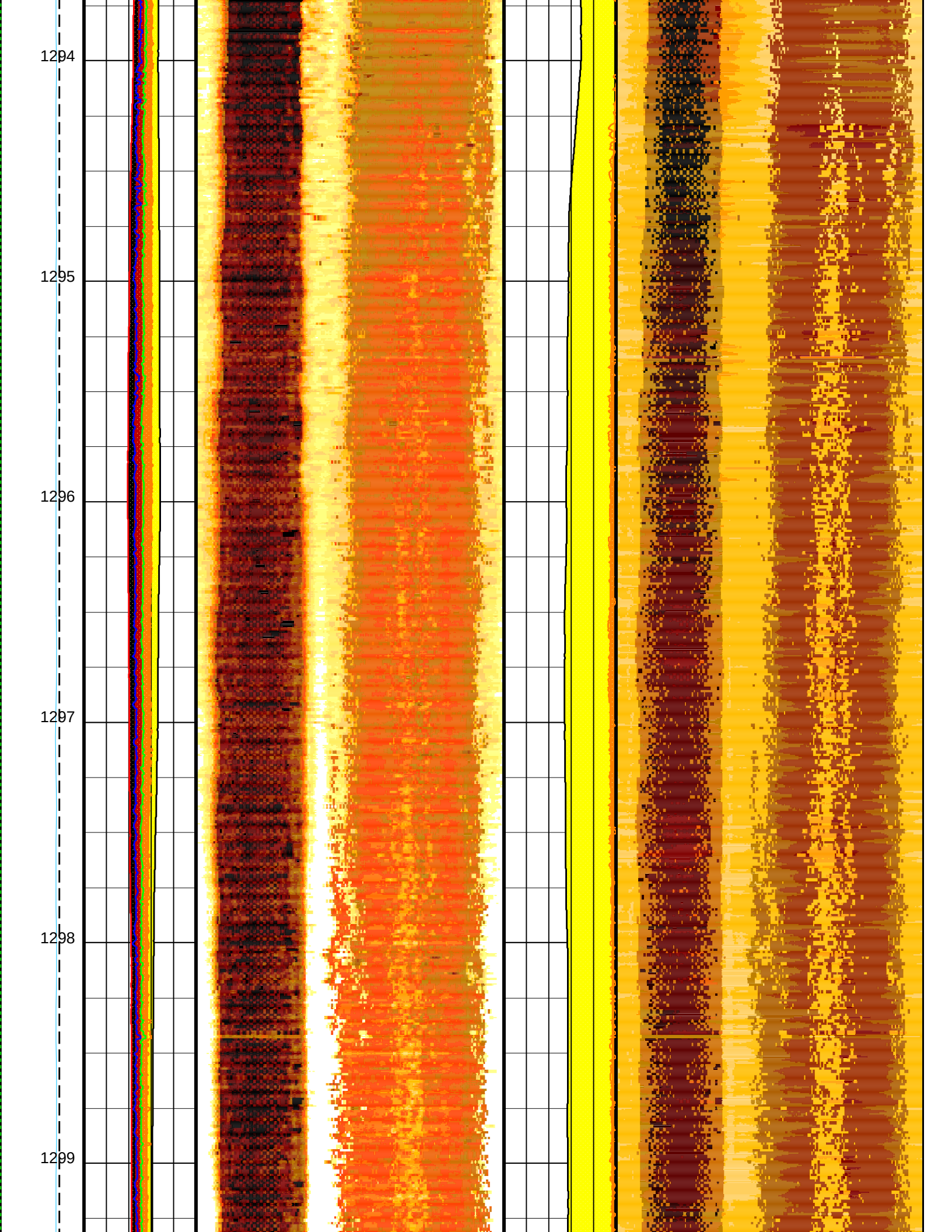
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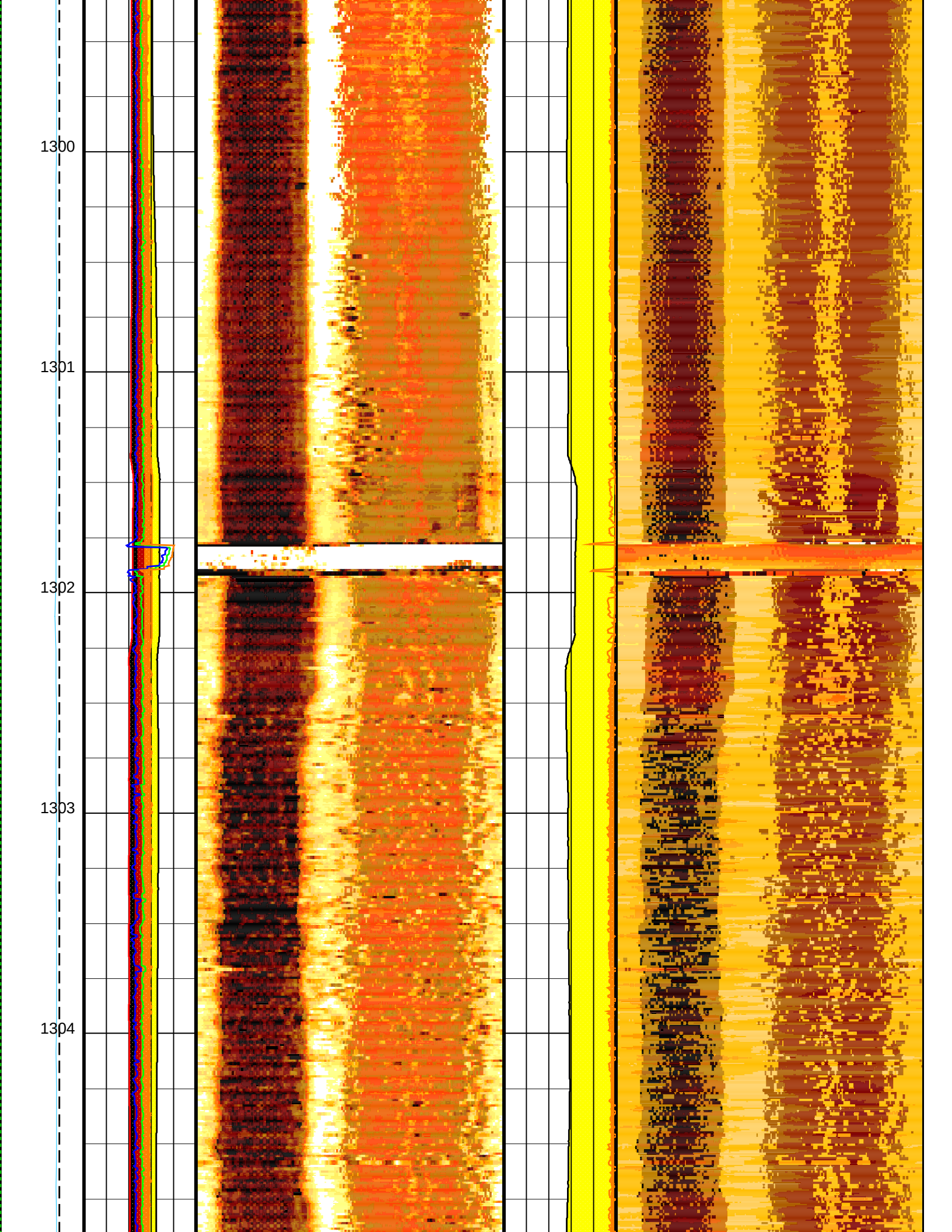
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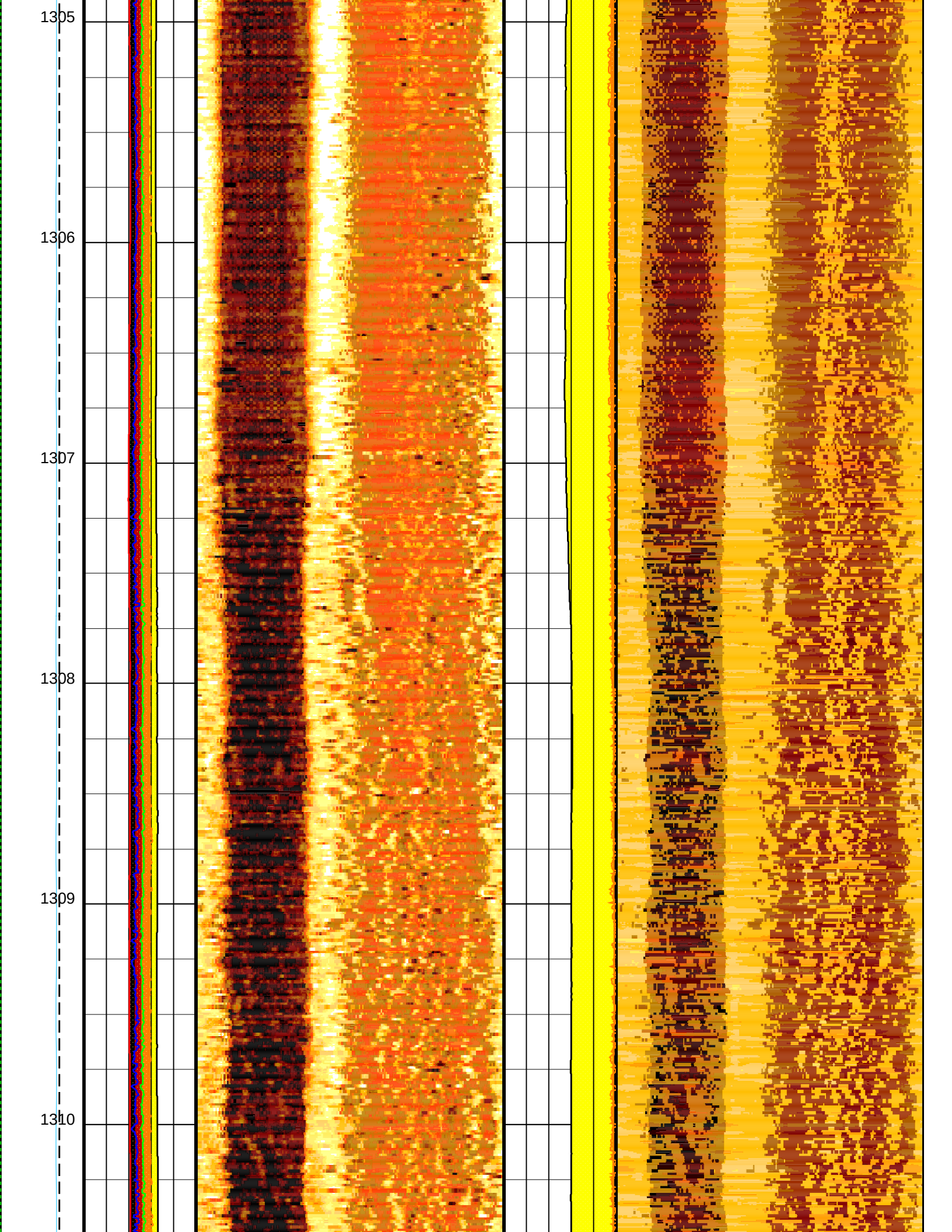
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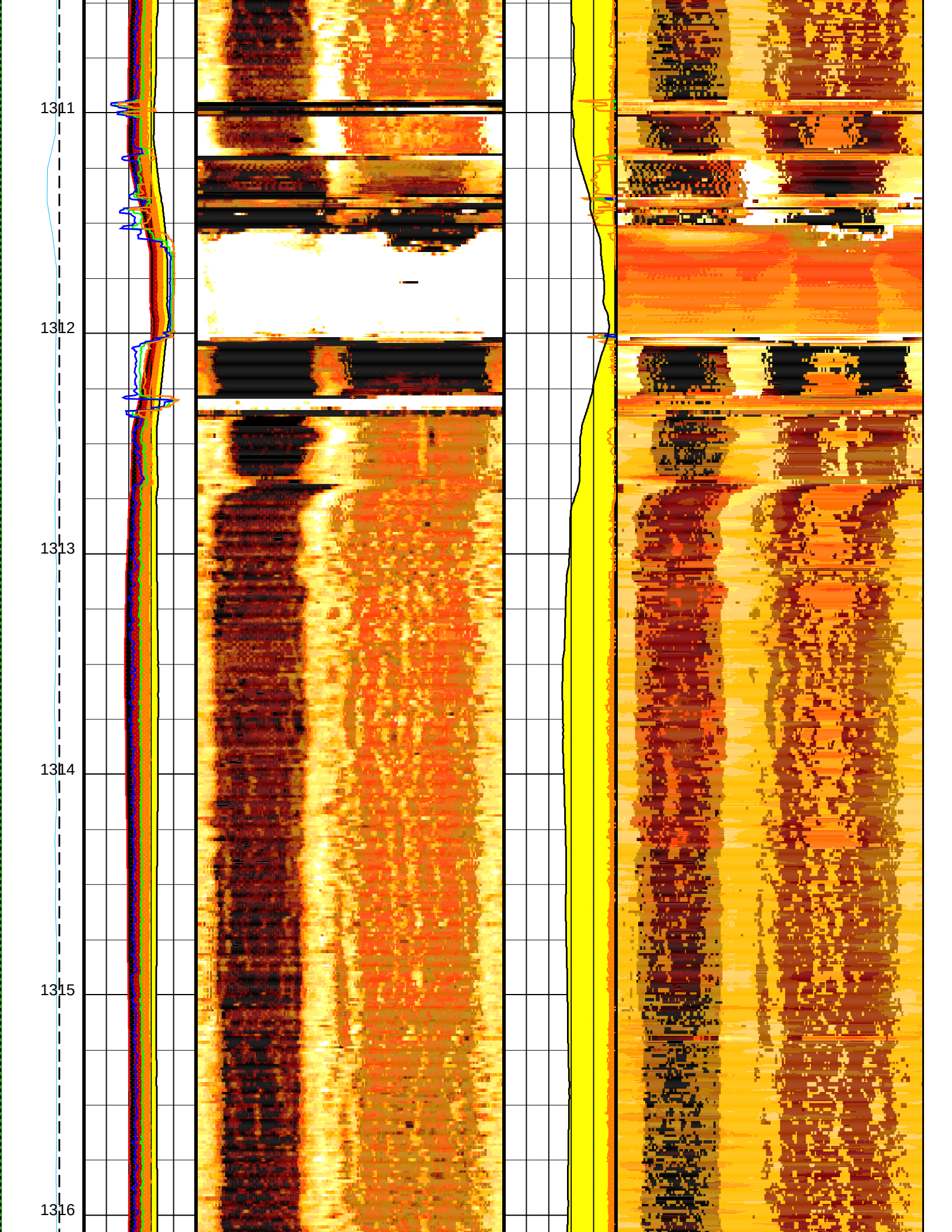
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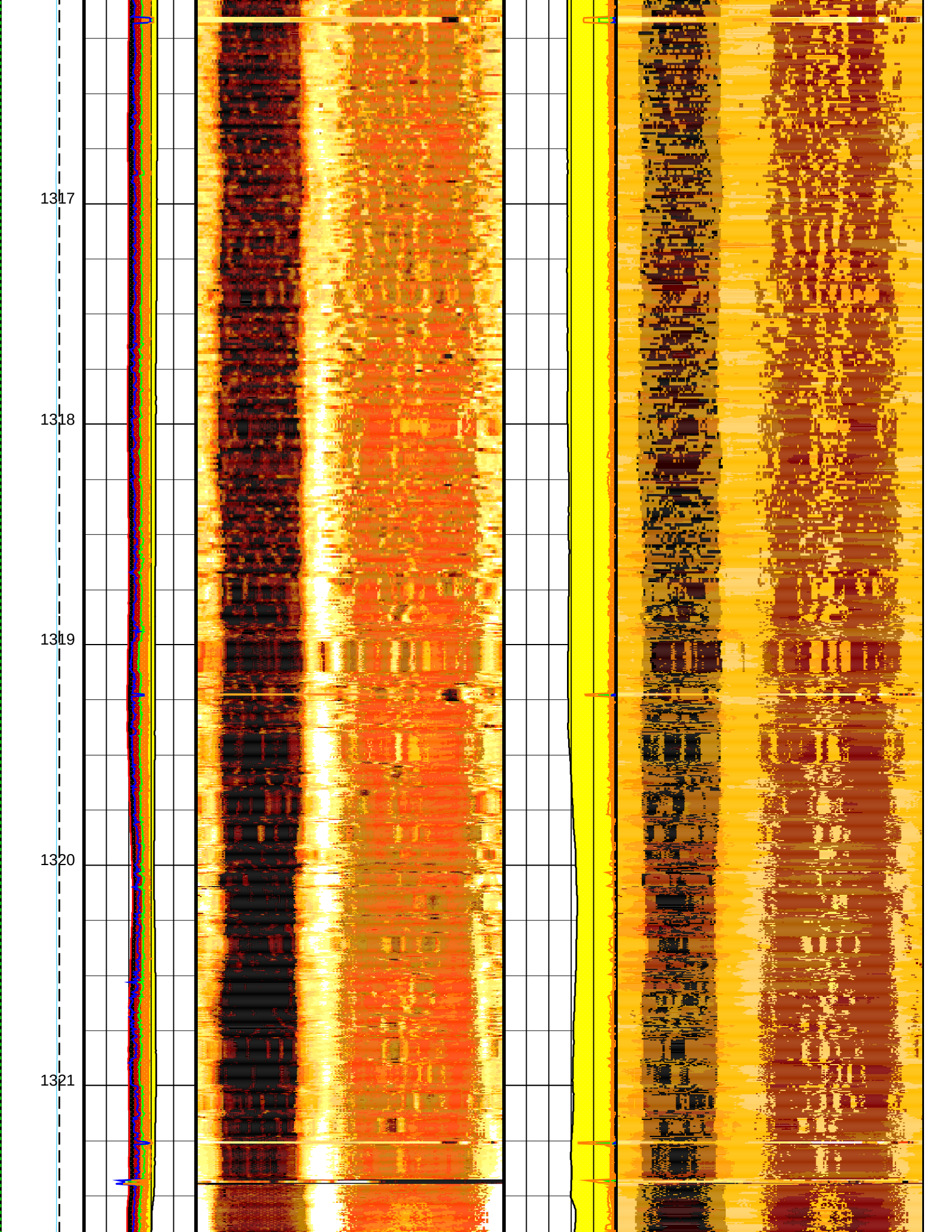
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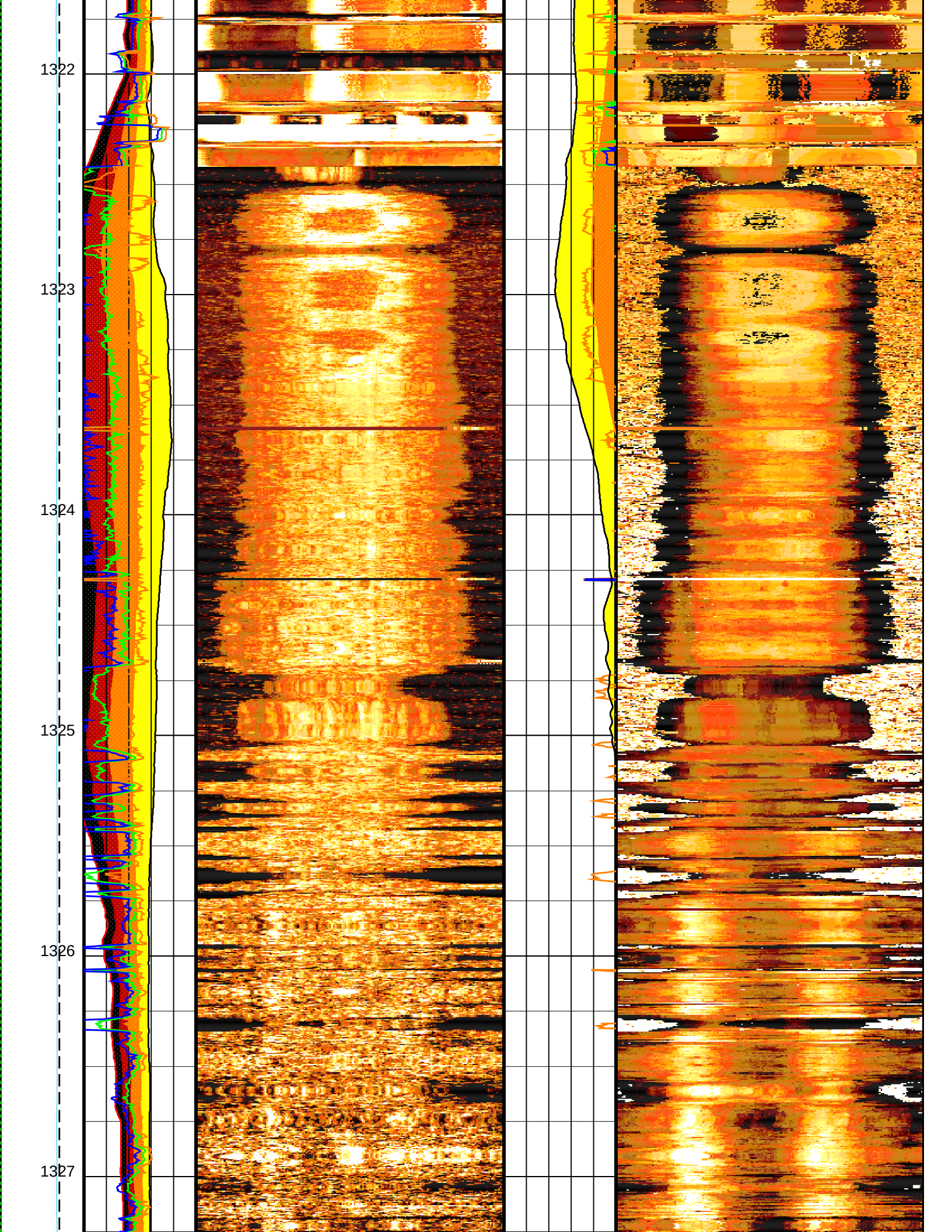
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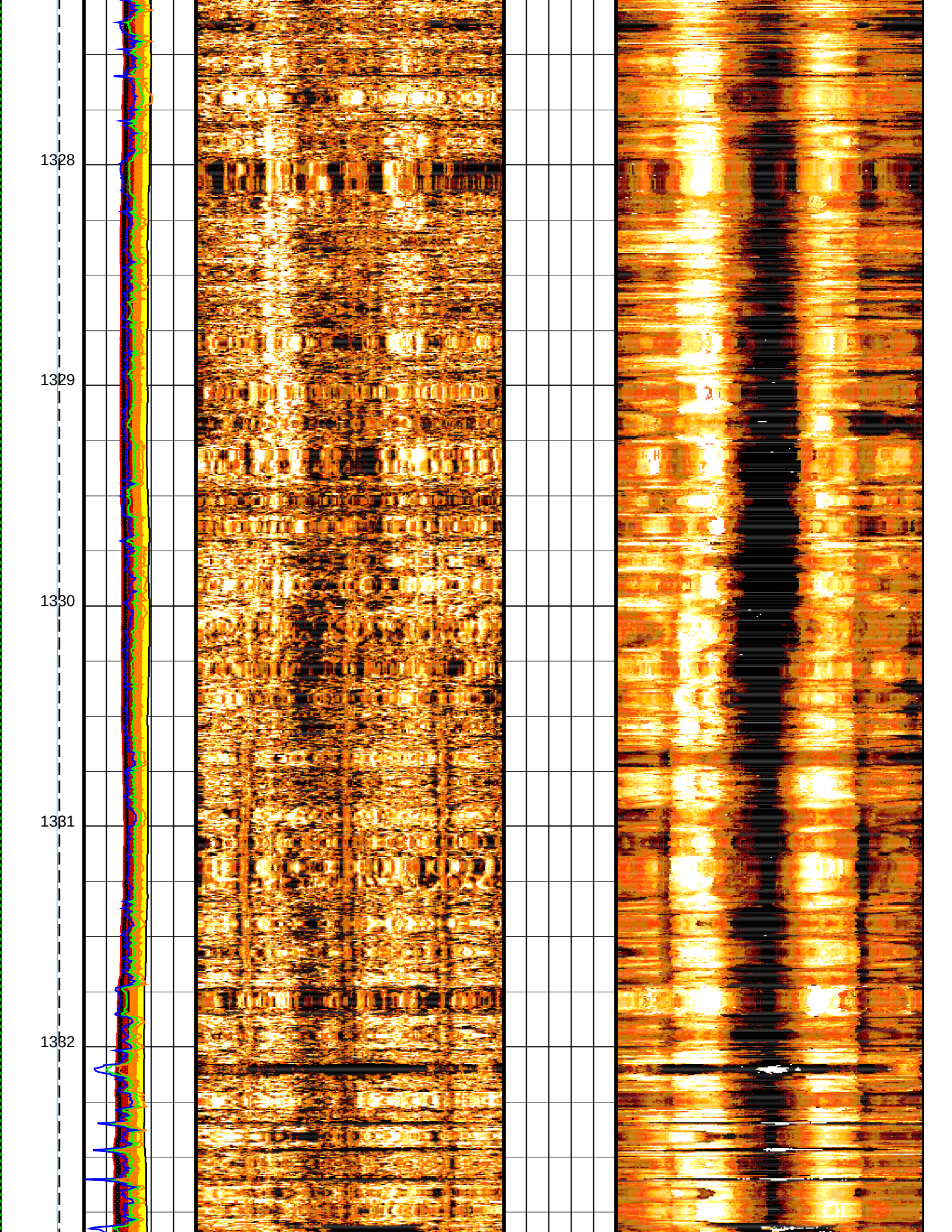
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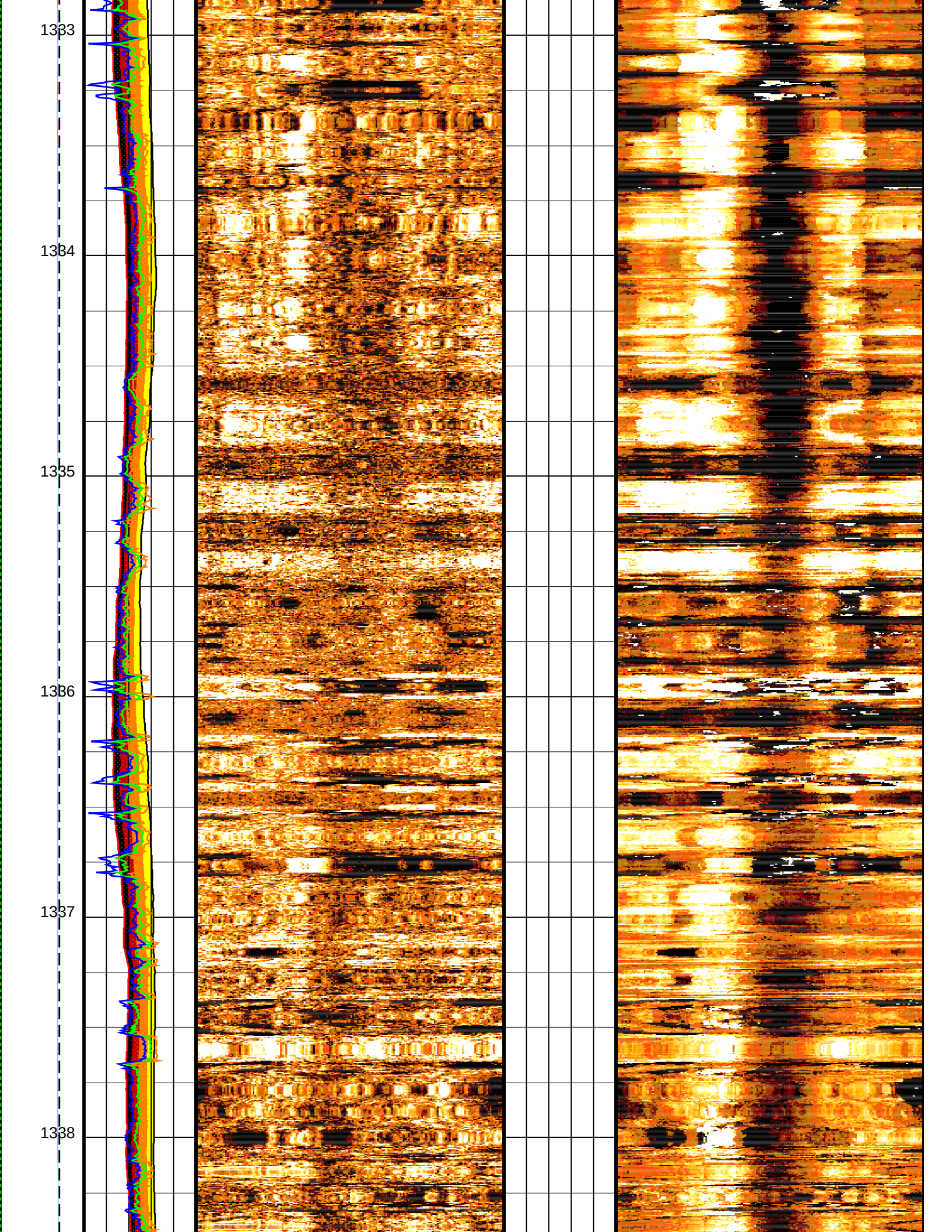
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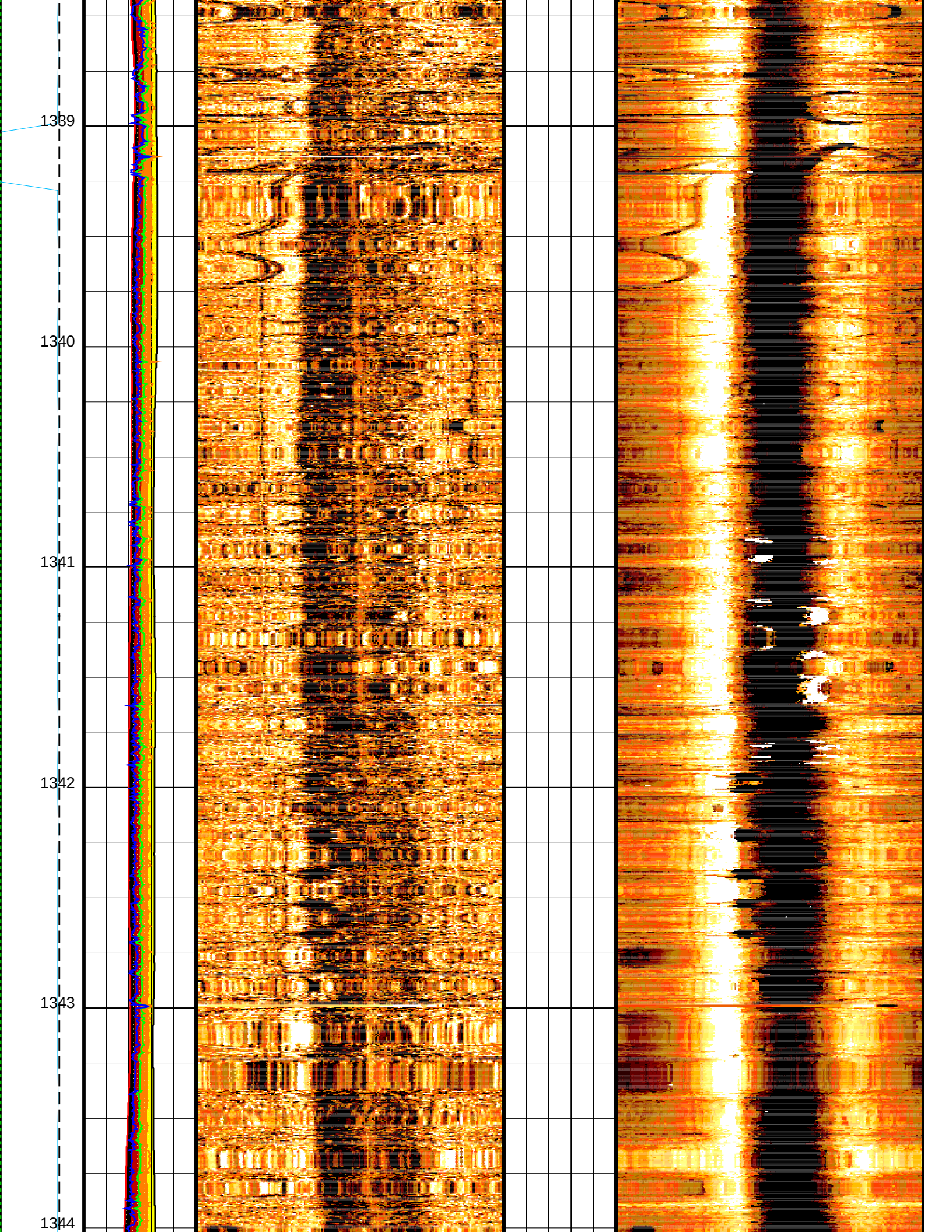
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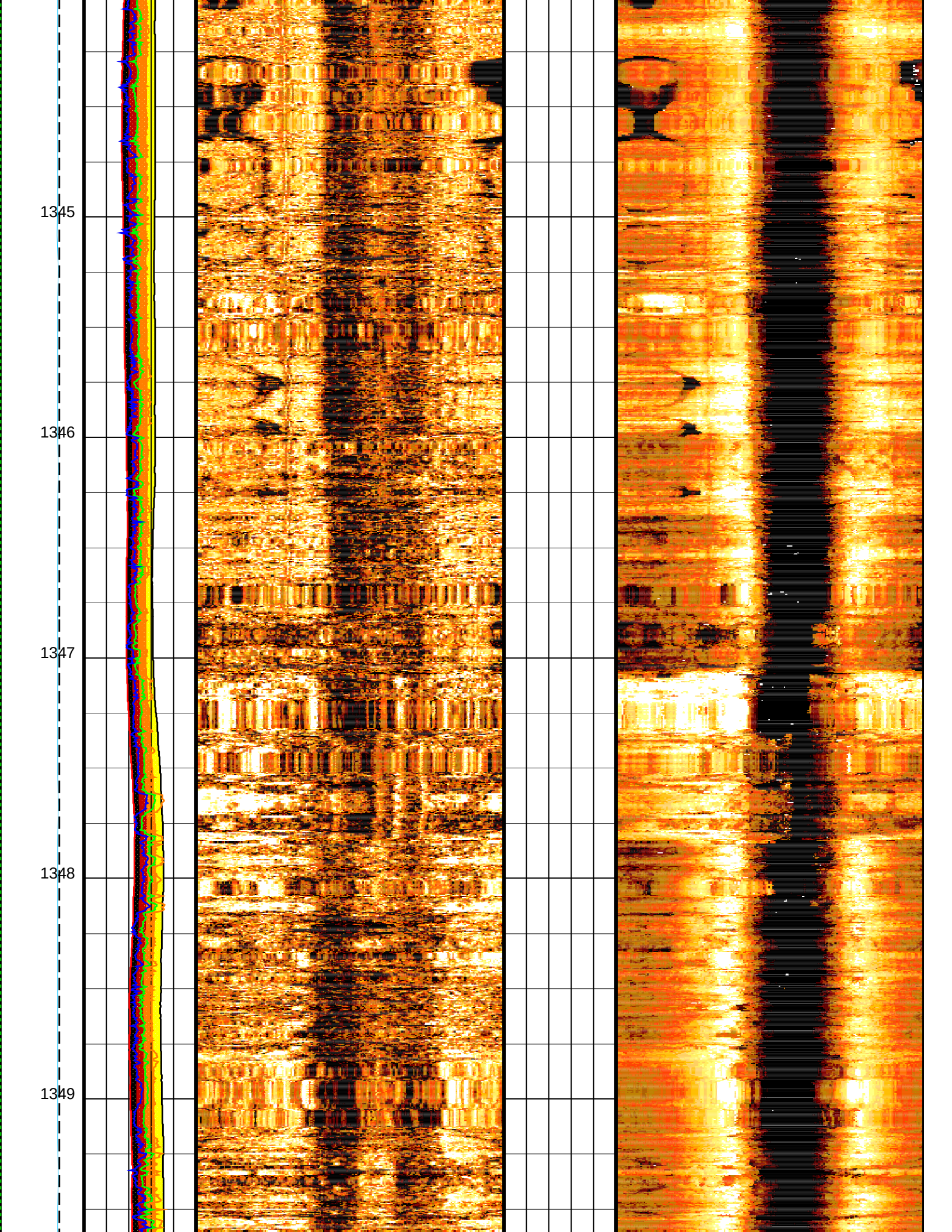
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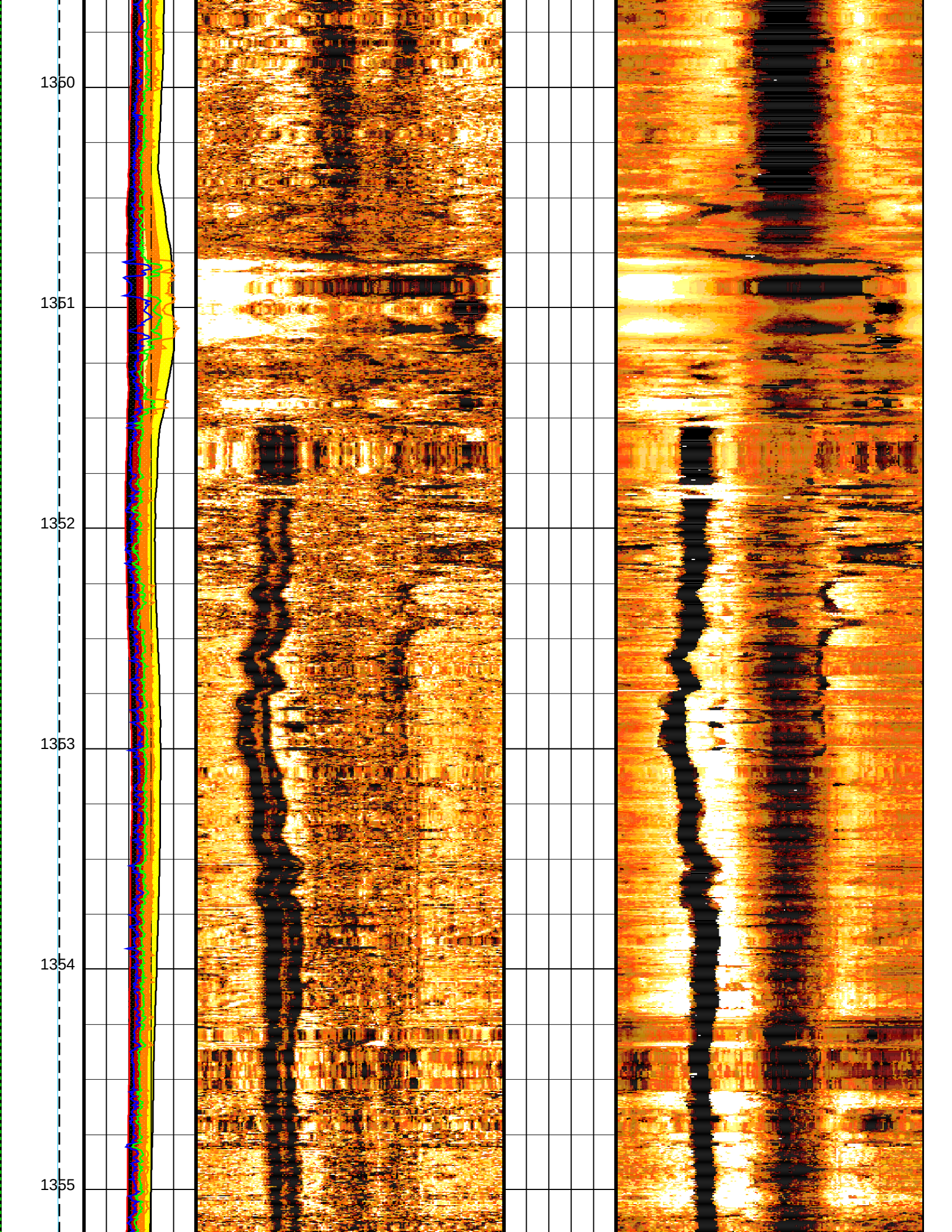
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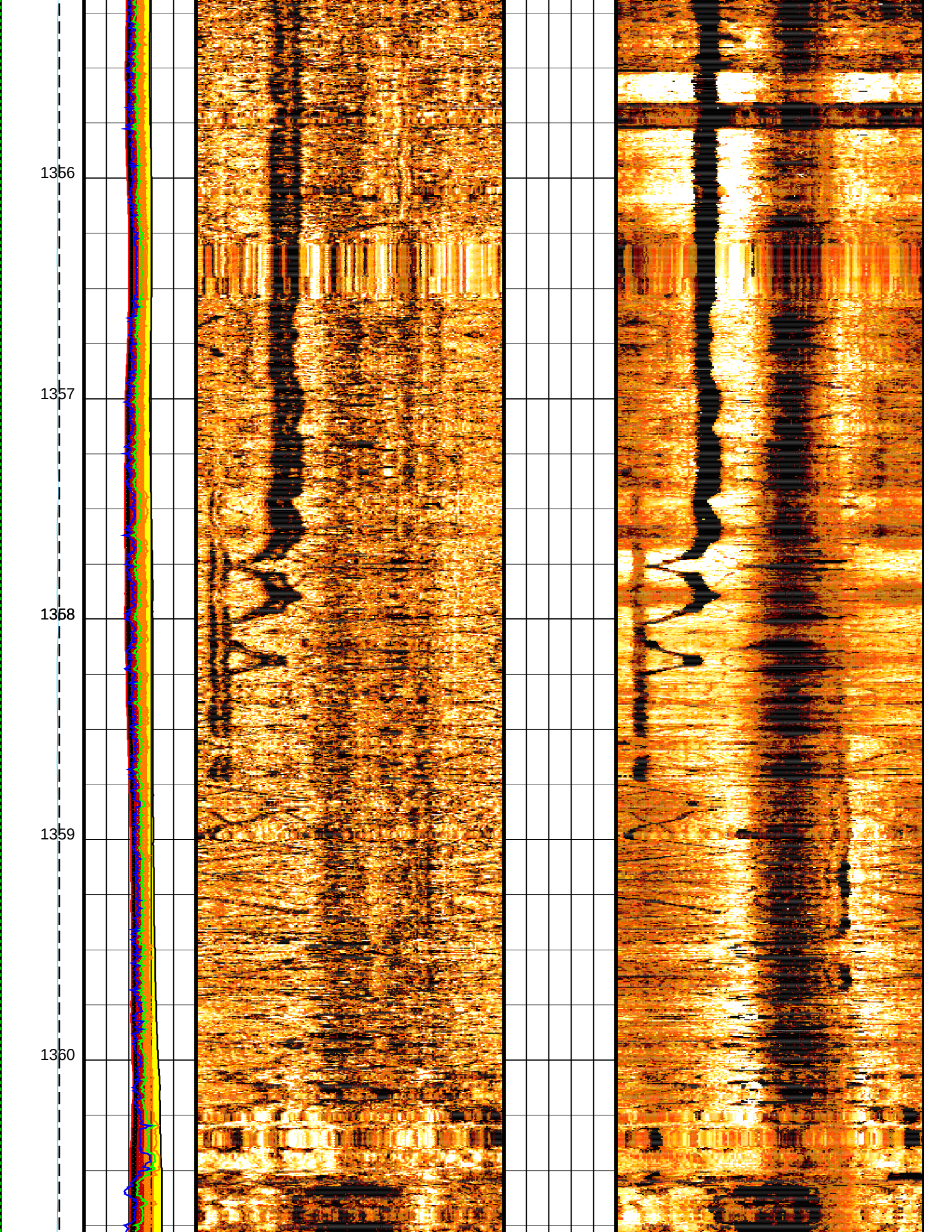
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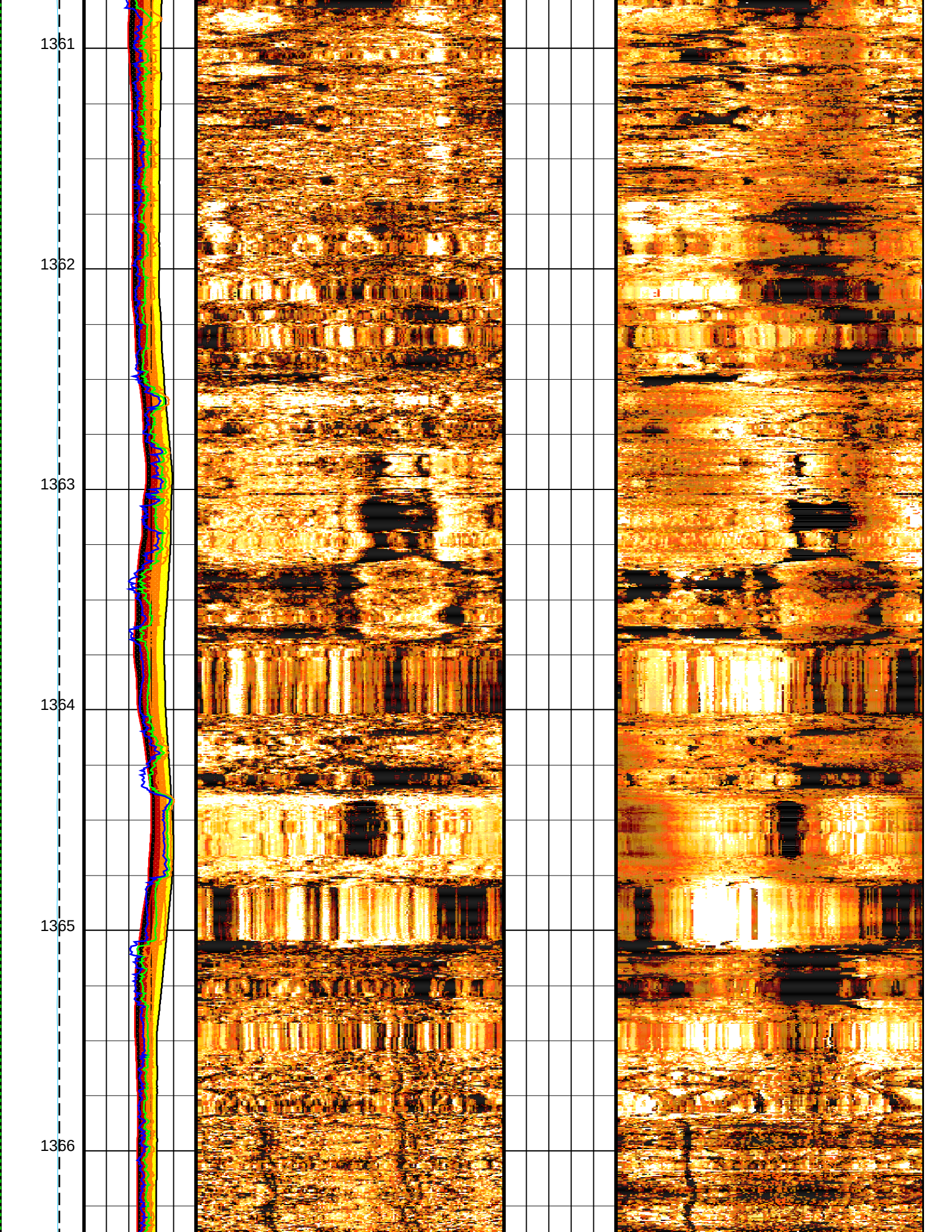
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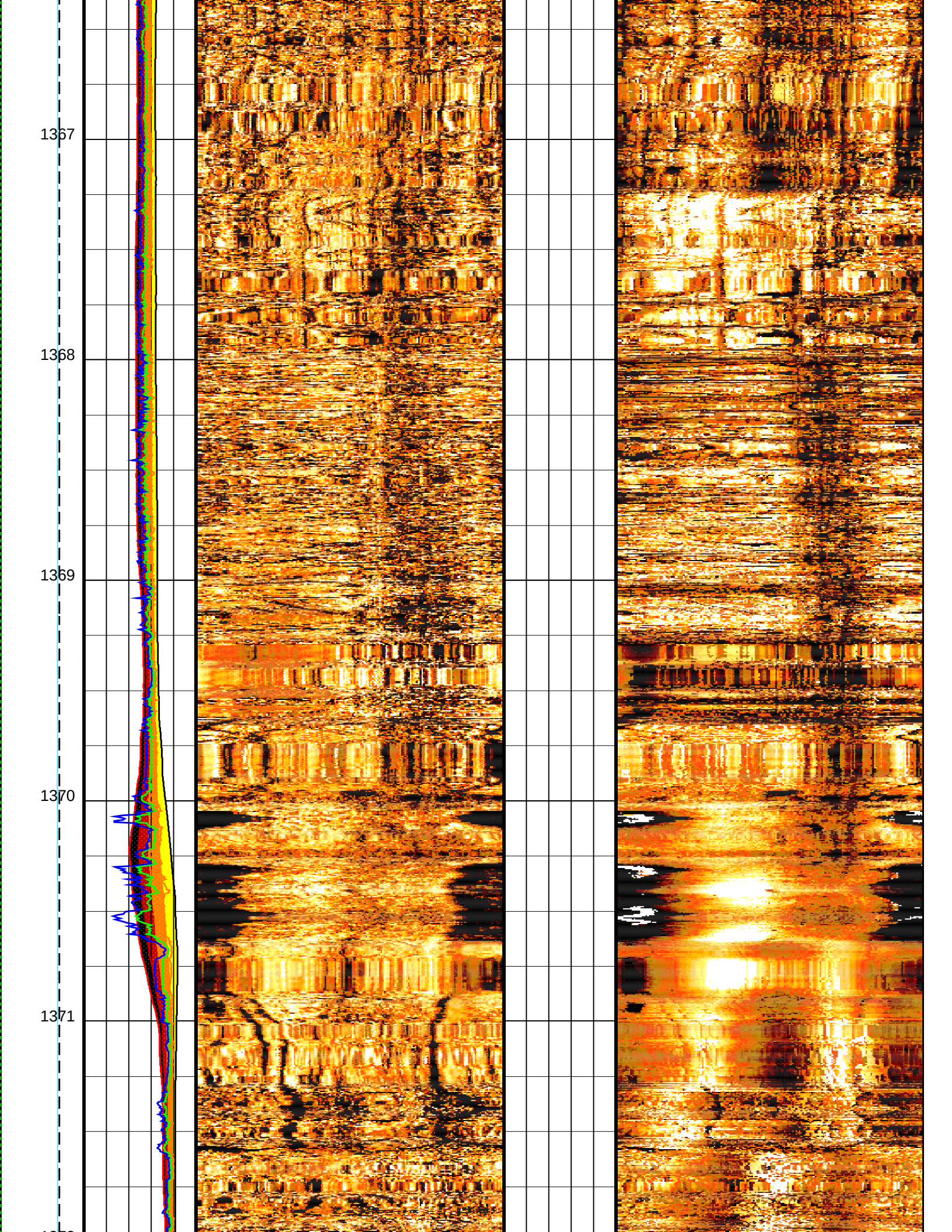
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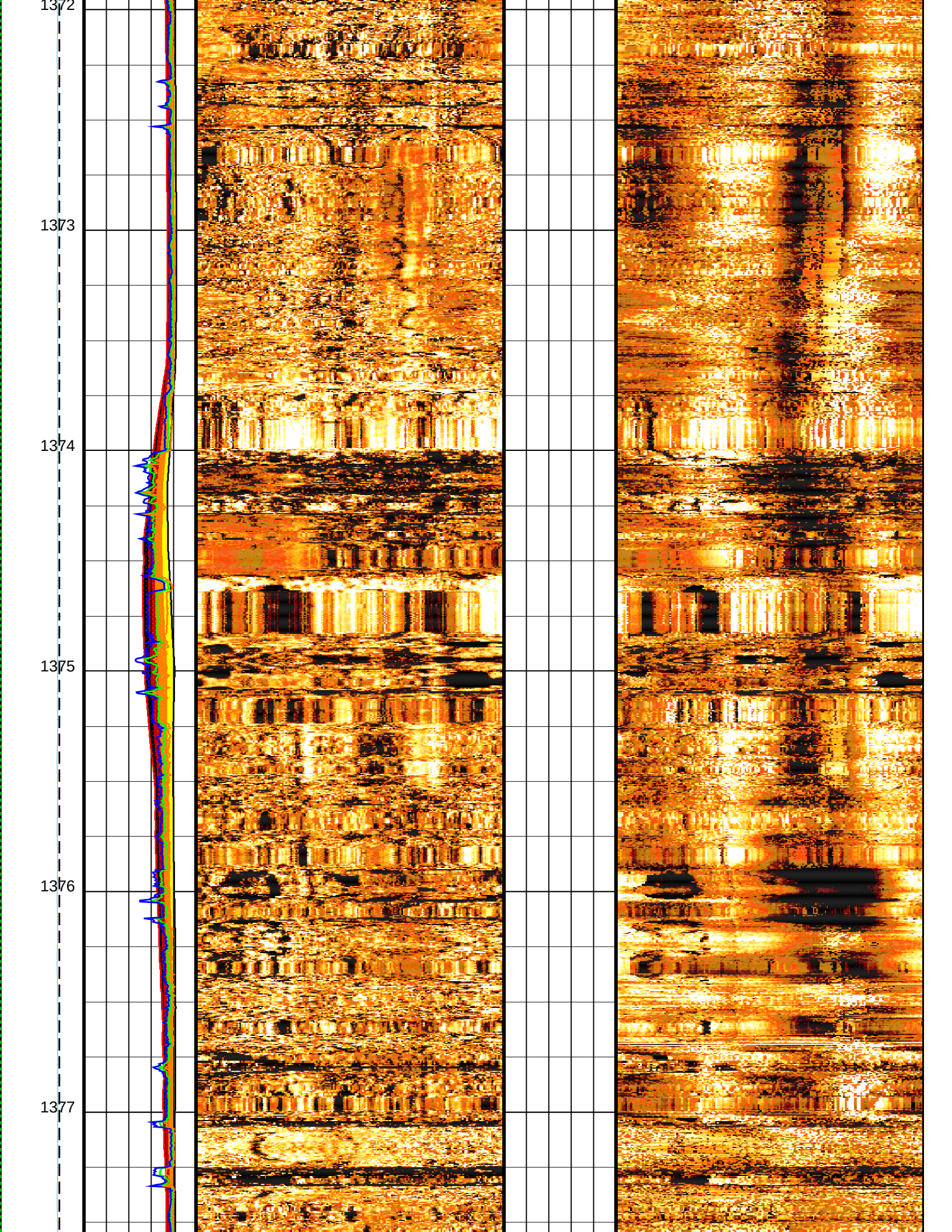
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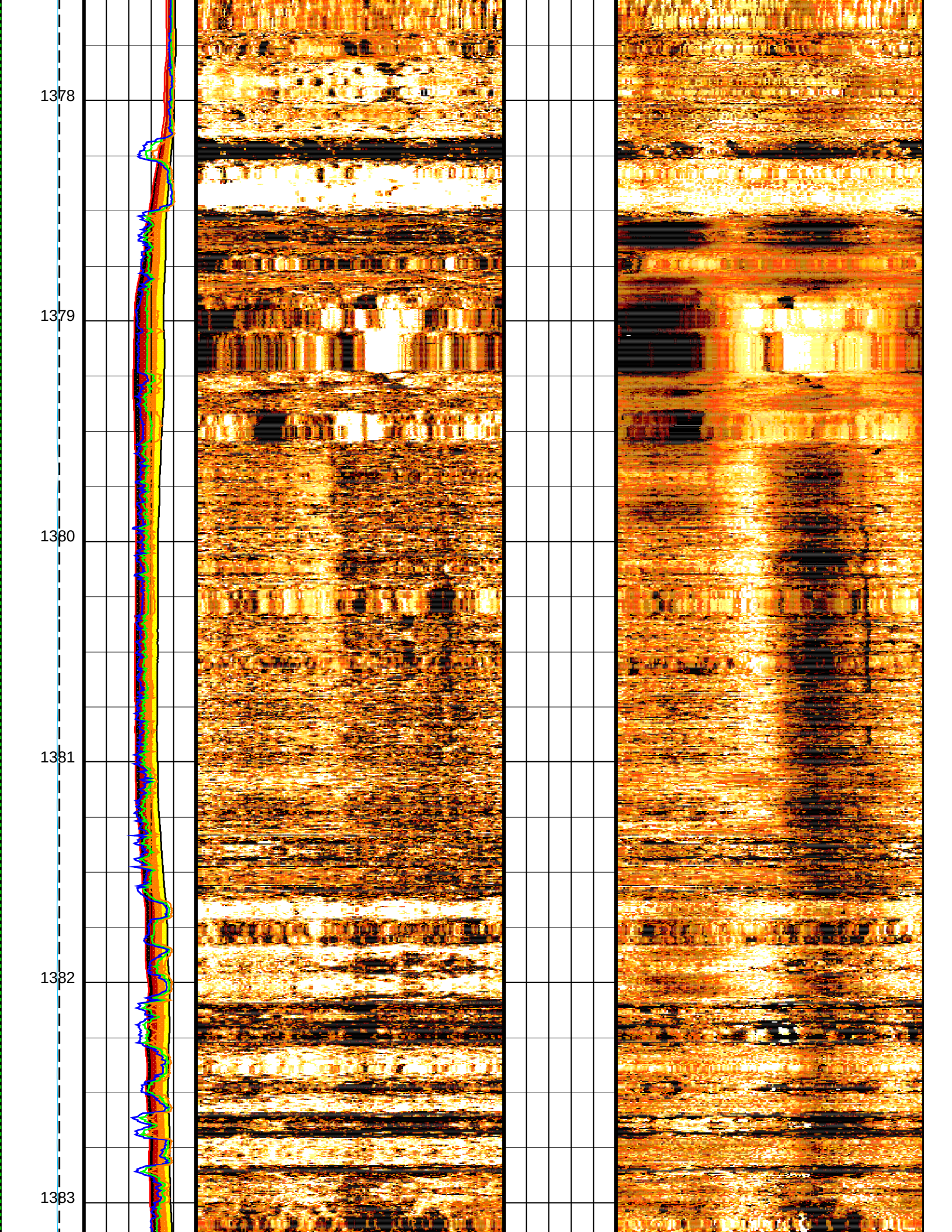
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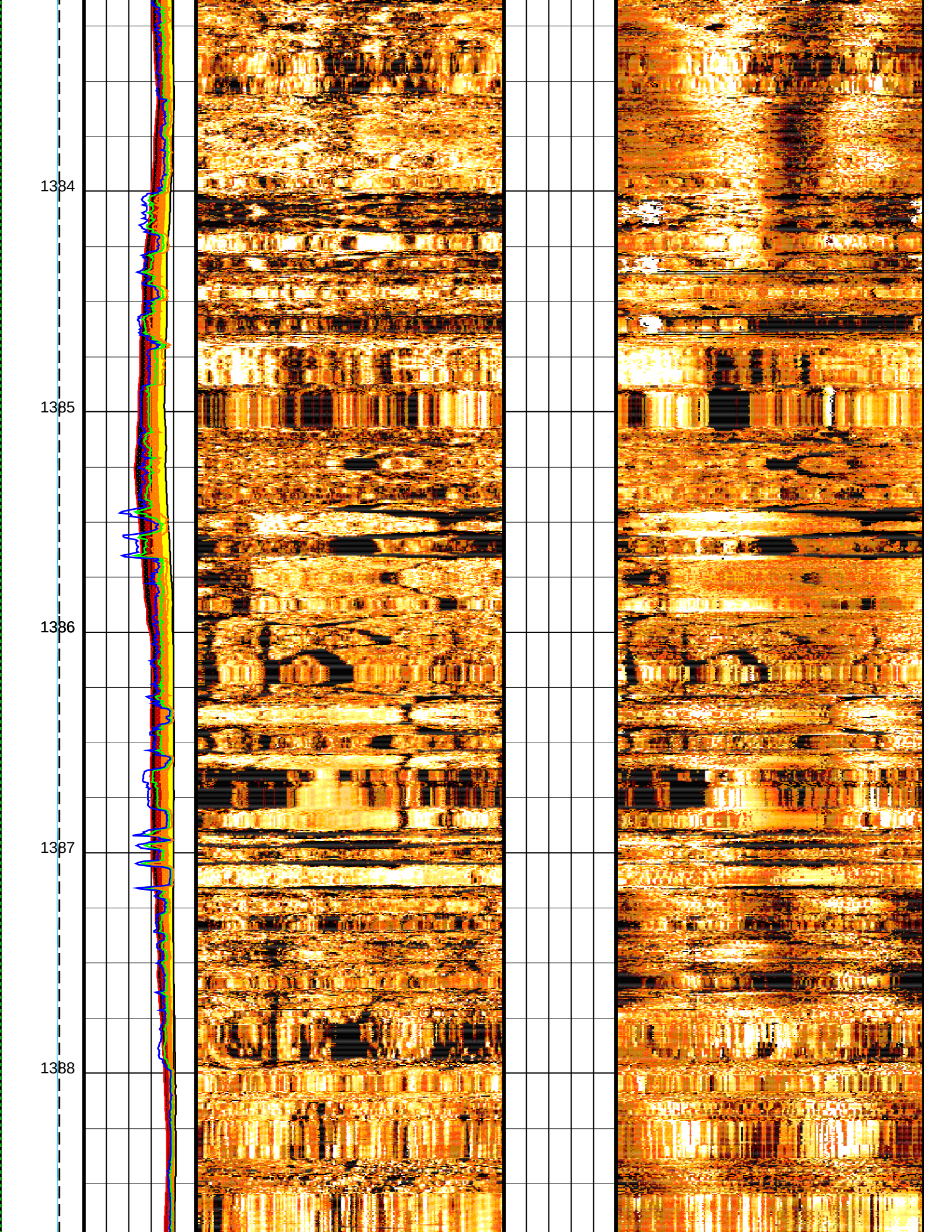
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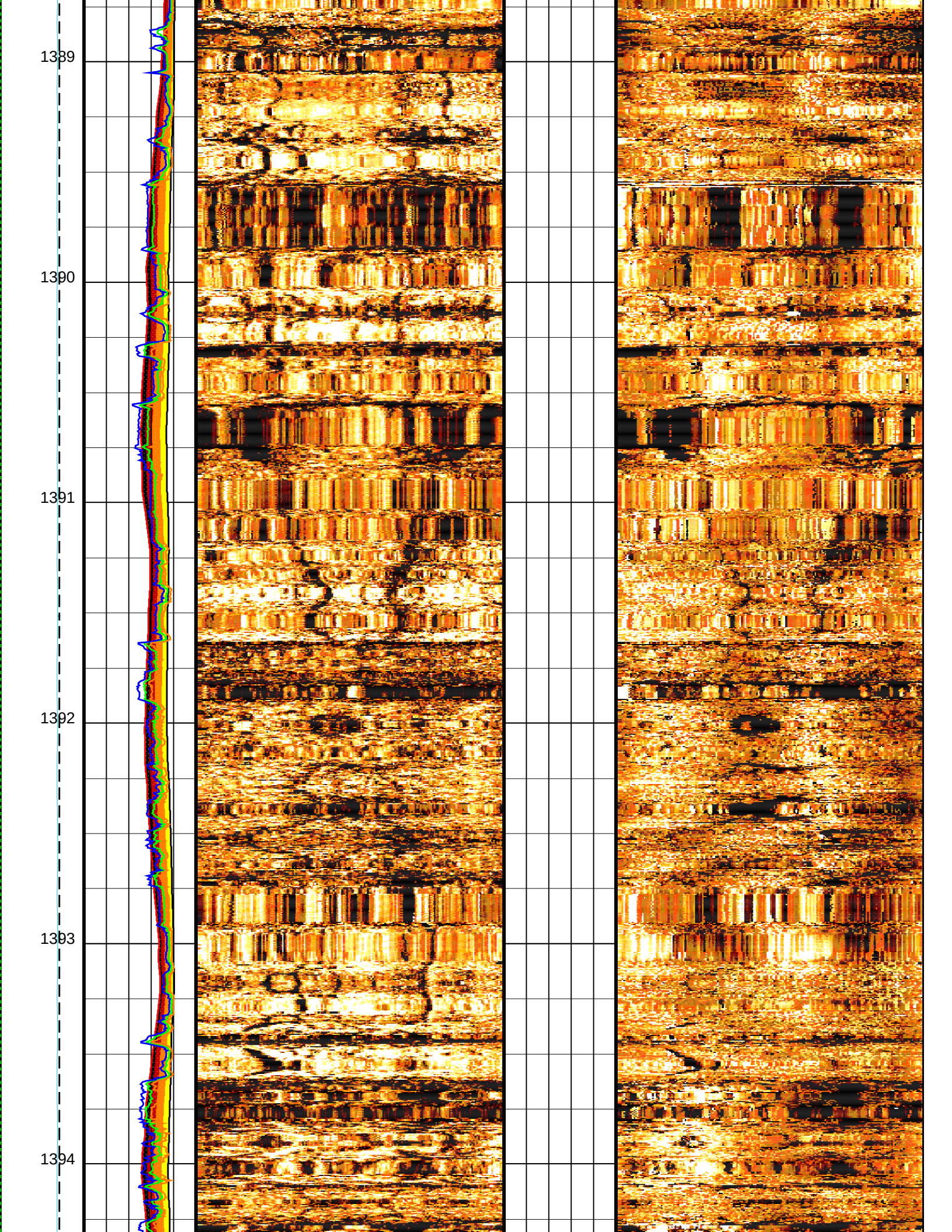
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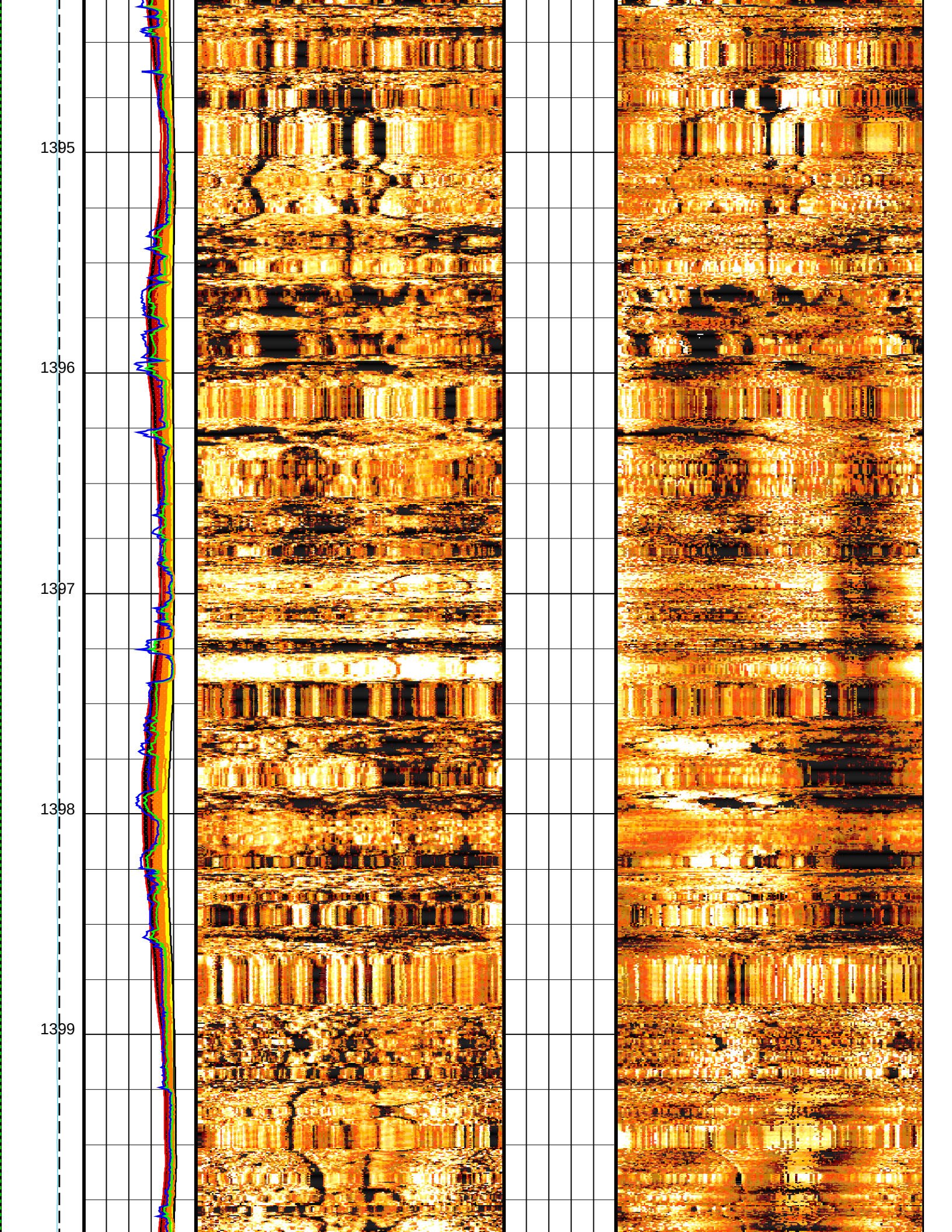
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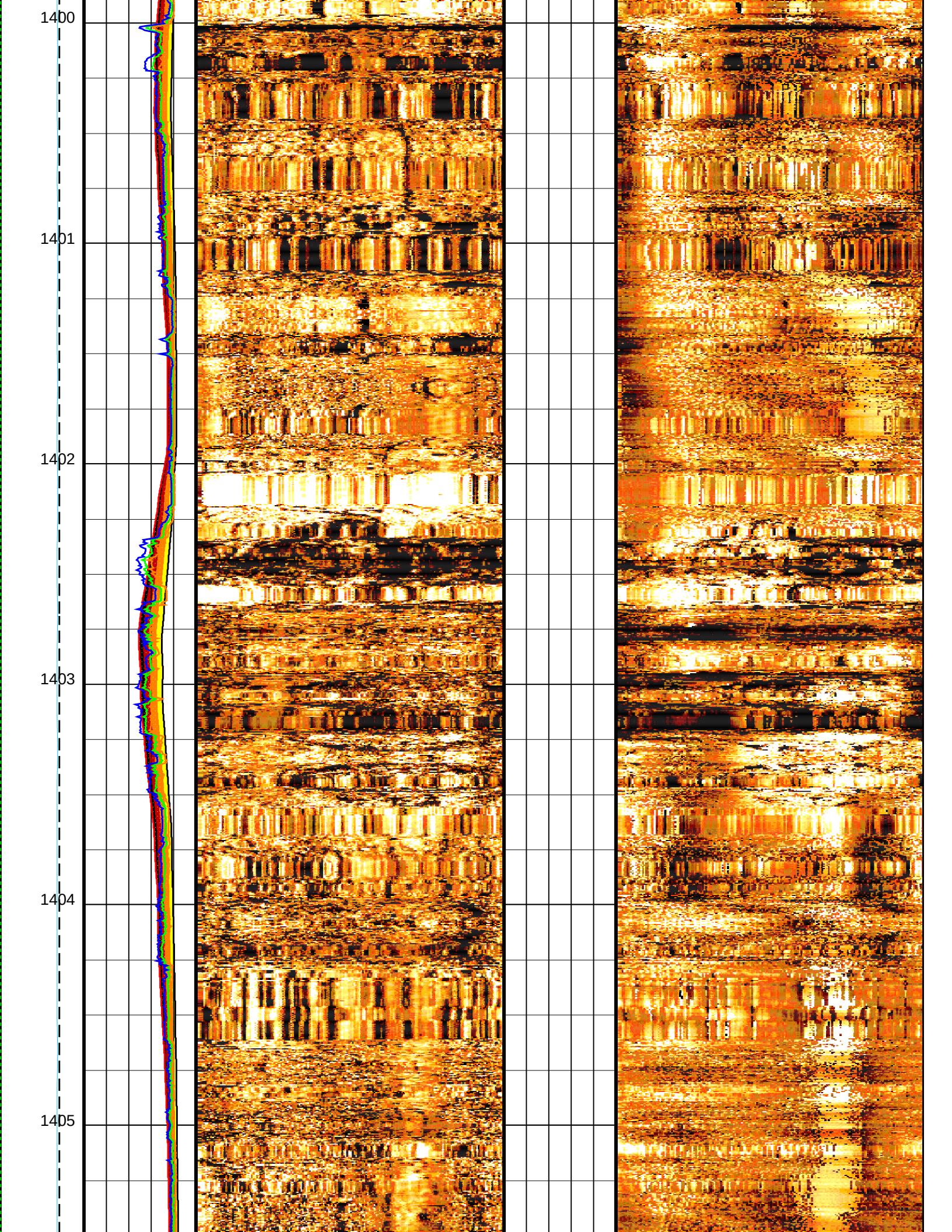
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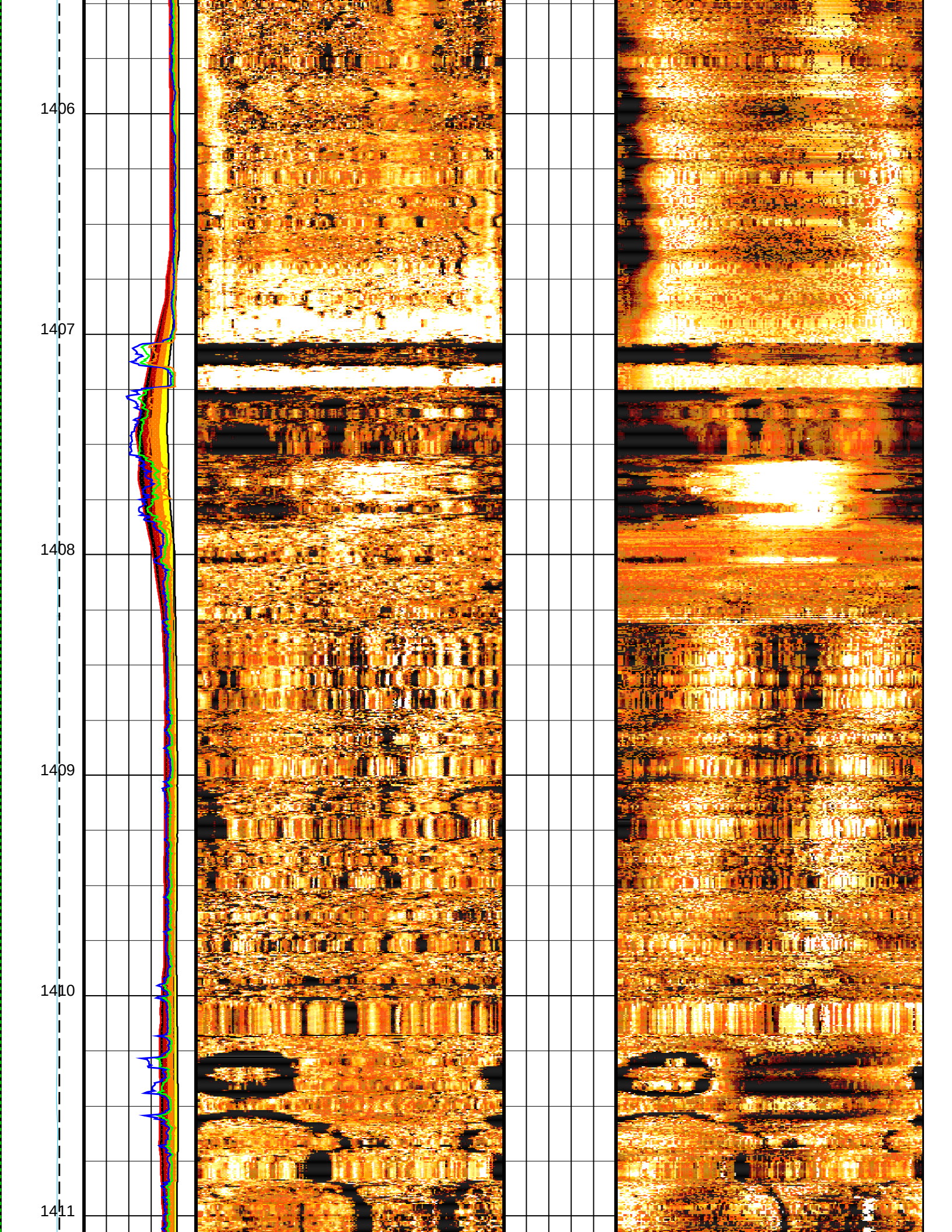
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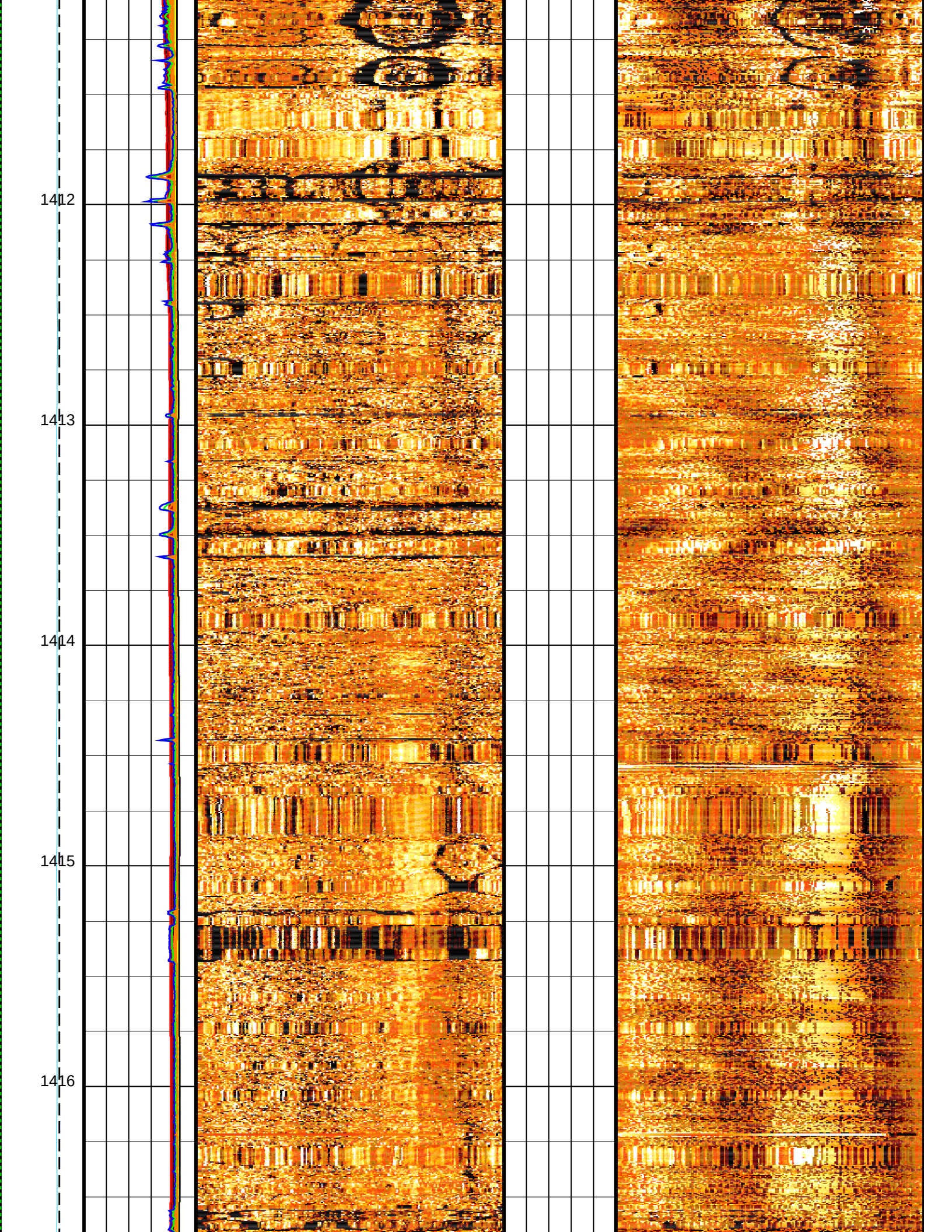
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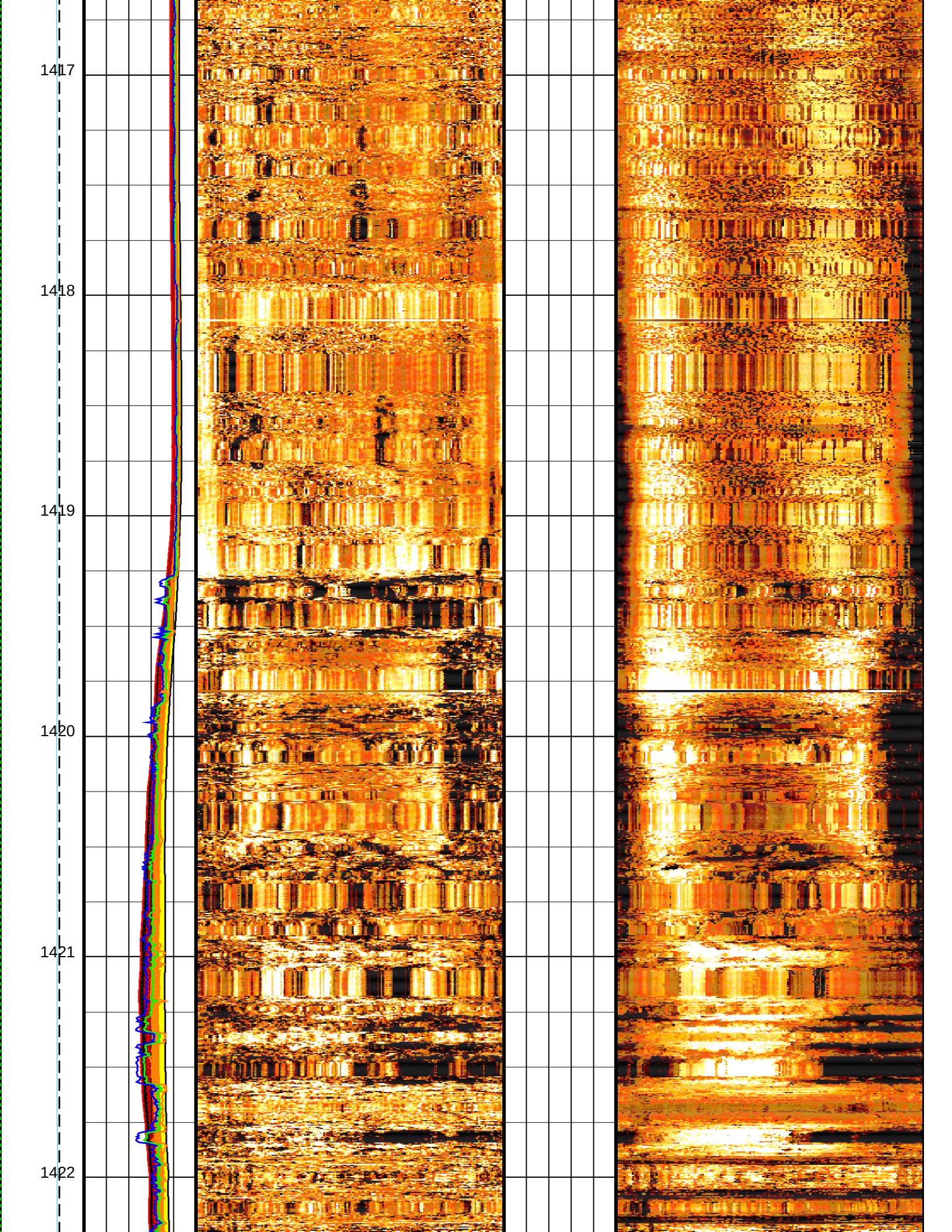
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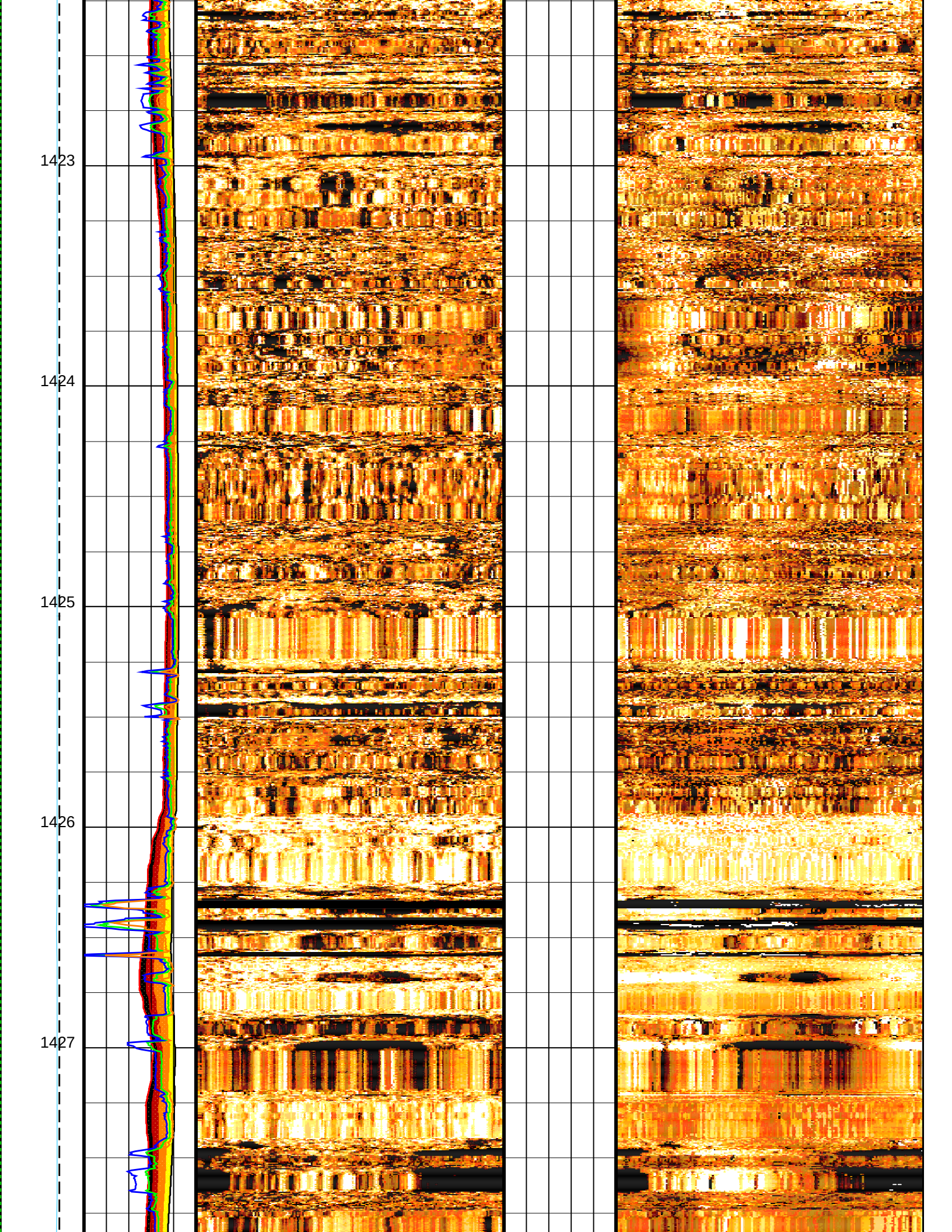
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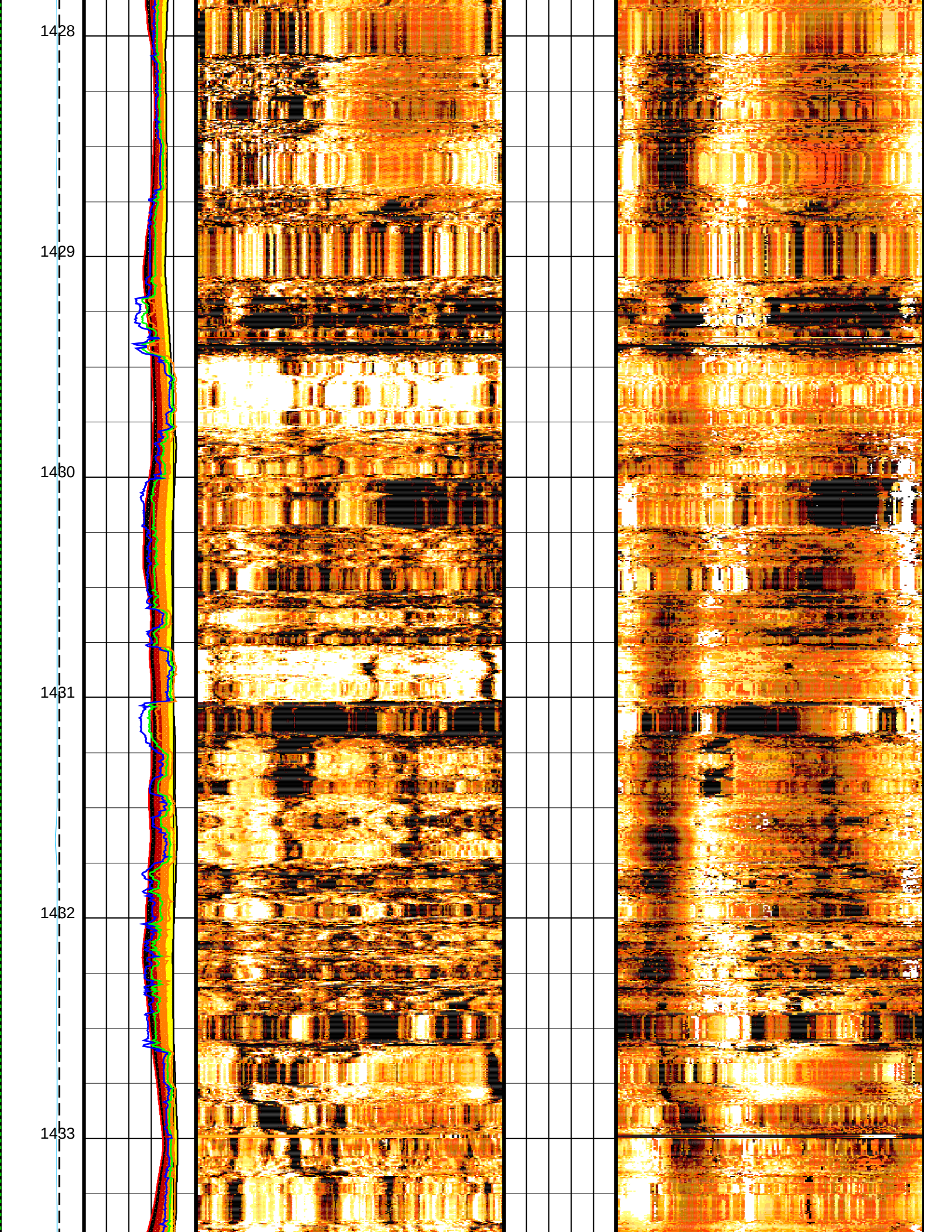
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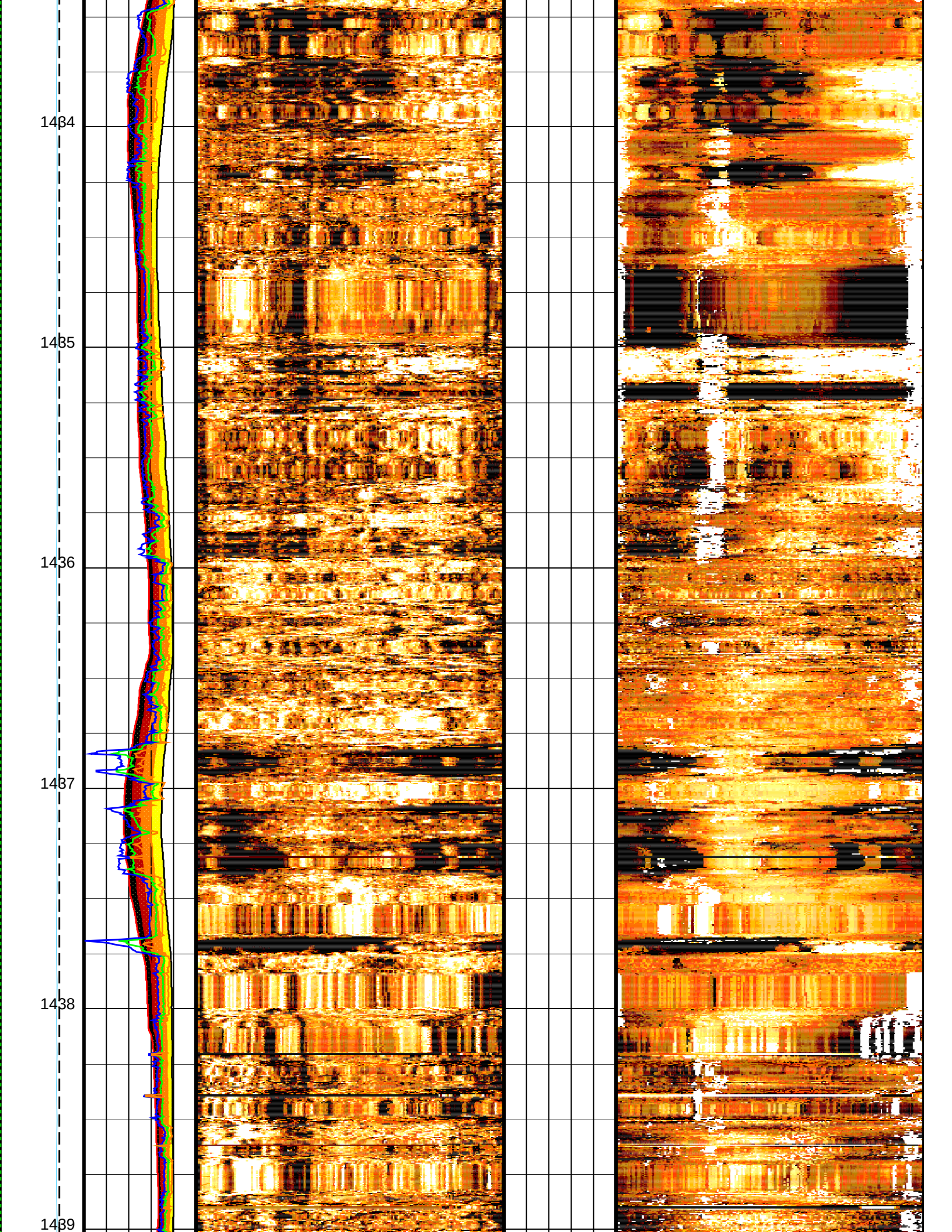
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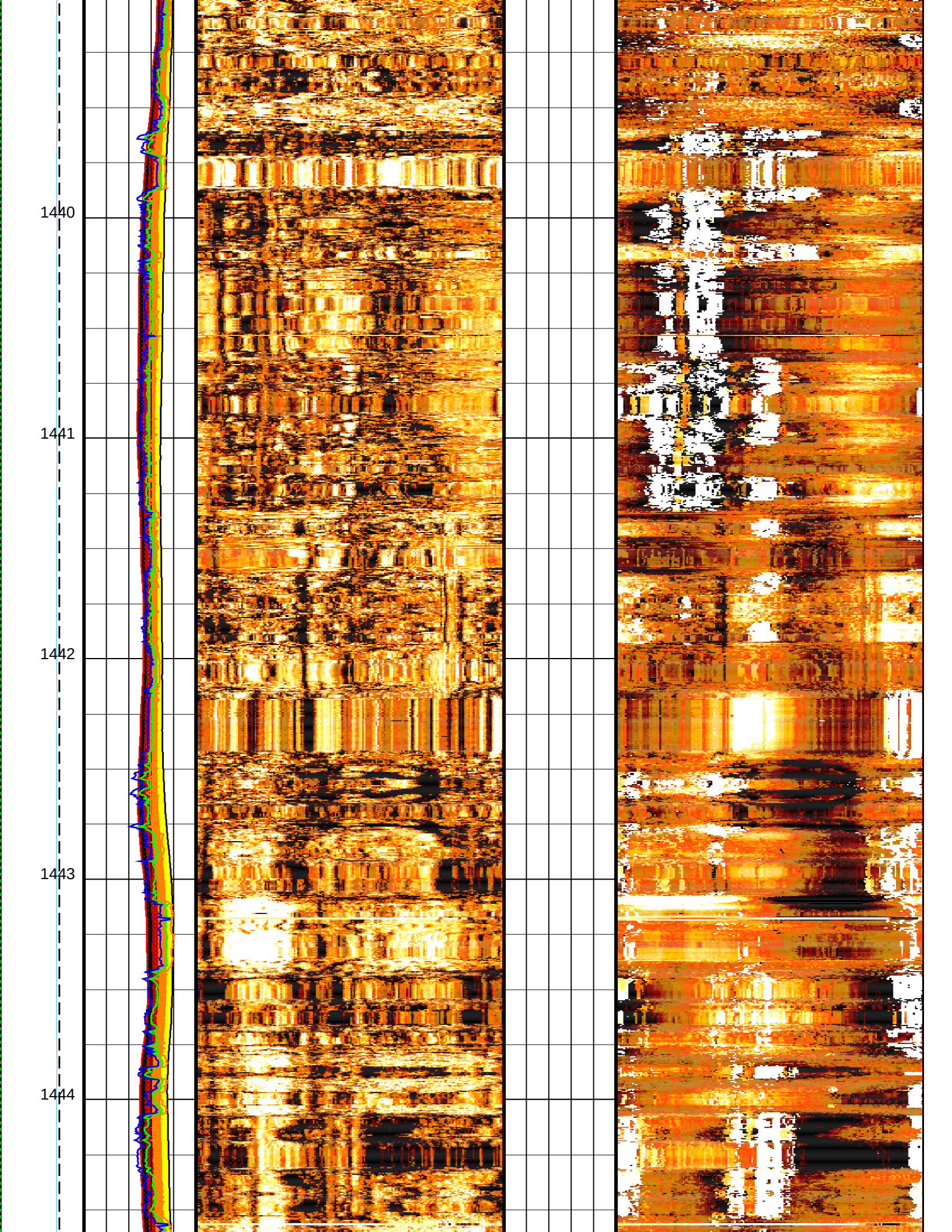
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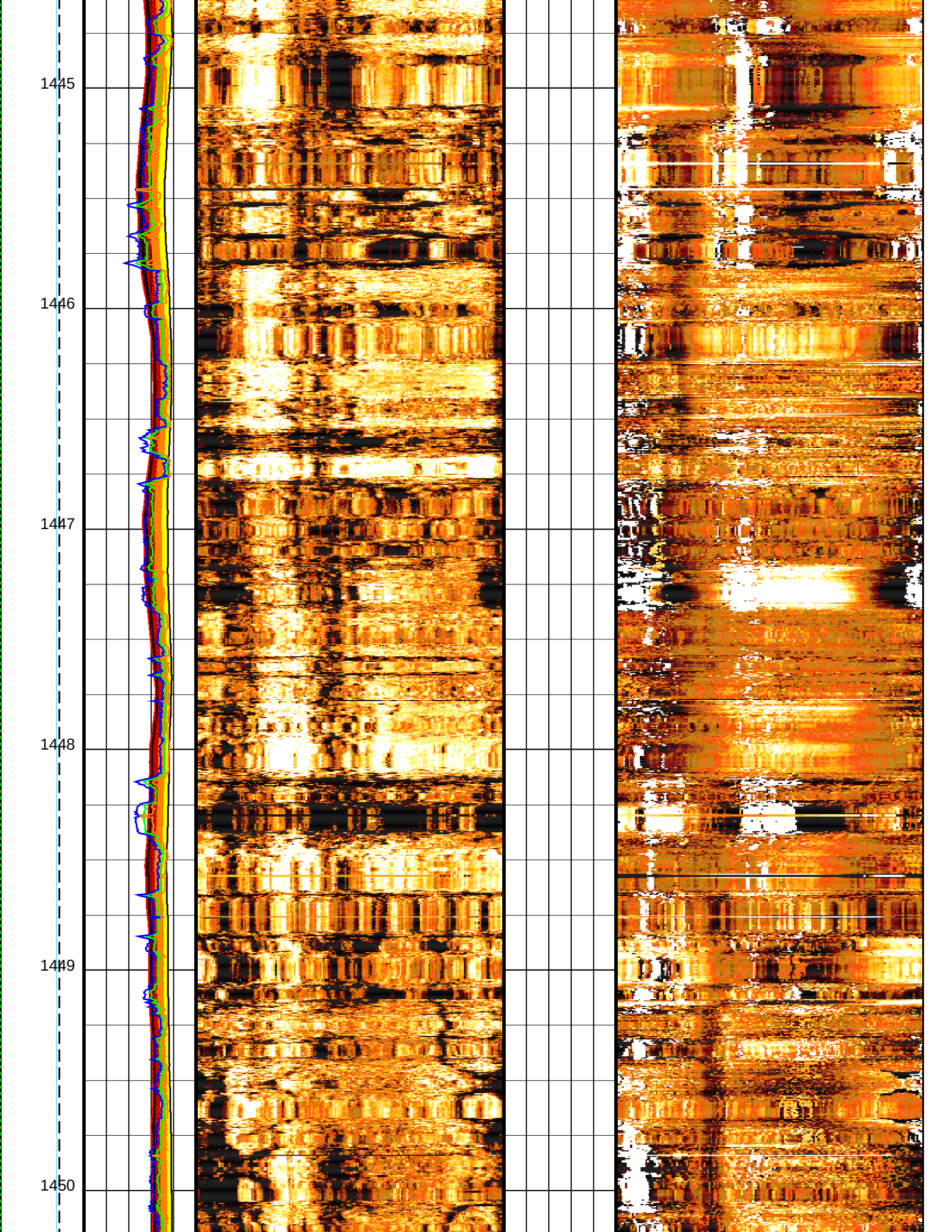
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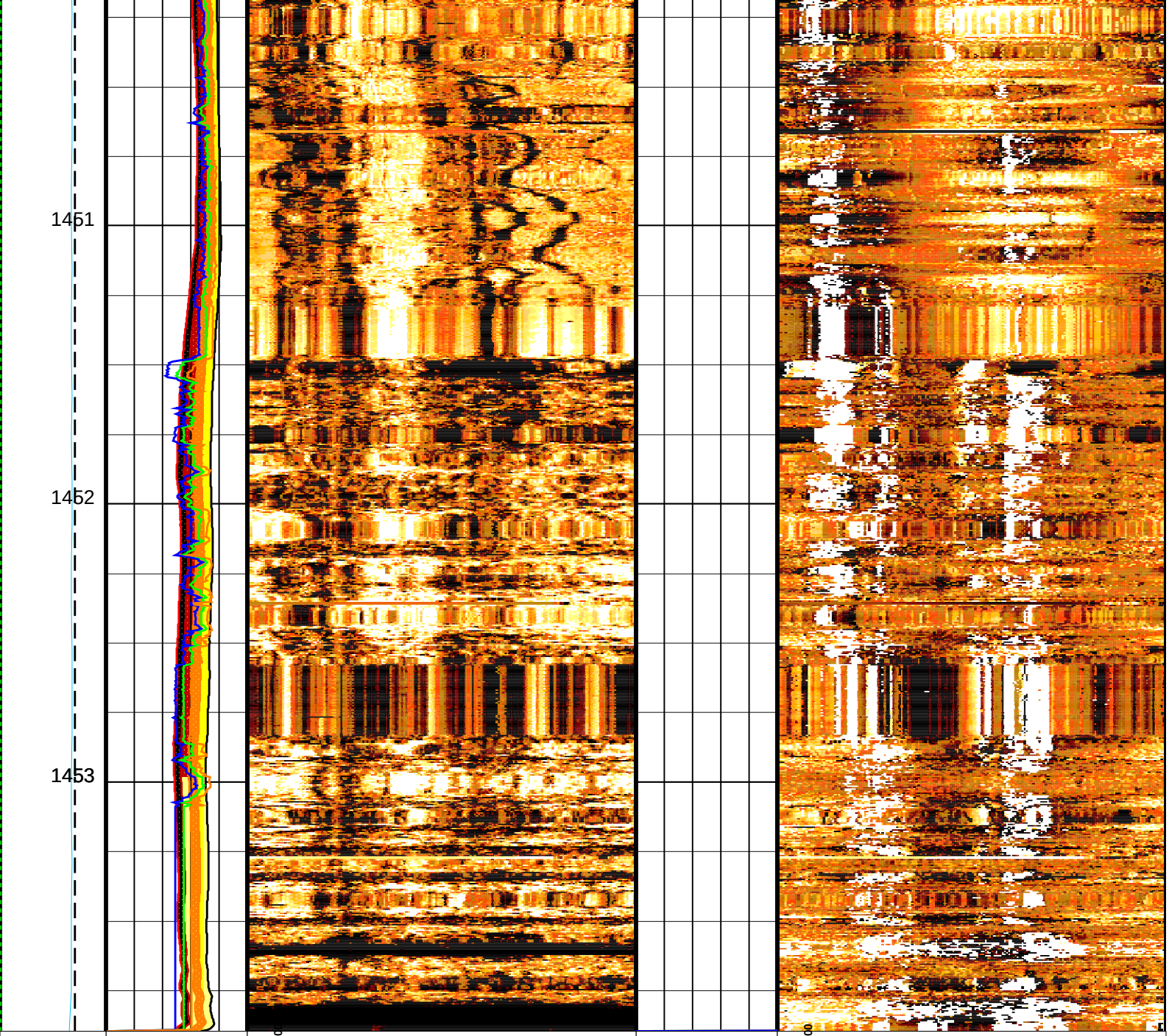


Rev. speed (RSAV)	LOW Amplitude (FA25)	Corrected Amplitude (AWCN) (DB)	MEDIAN Radius (FTED)	Corrected transit time (TTCN) (US)
6 (RPS) 8	0 (DB) 50	−500.0000 0.0000 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000	3 (IN) 4.5	−500.0000 0.0000 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000
Cable Speed (CS) (M/HR)	Min. of Amplitude (UAMN)		Radius LOW (FT25)	
0 150000	0 (DB) 50		3 (IN) 4.5	
Fluid velocity (CFVL) (US/M)	Maximum of Amplitude (UAMX)		Radius HIGH (FT75)	
450 750	0 (DB) 50		3 (IN) 4.5	
	MEDIAN of Amplitude (FAED)		Radius min (UTMN)	
	0 (DB) 50		3 (IN) 4.5	
	HIGH Amplitude (FA75)		Radius max (UTMX)	

0	(DB)	50	3	(IN)	4.5

Format: UBI_Image Vertical Scale: 1:20 Graphics File Created: 10−Sep−2021 01:27

OP System Version: 19C0−187

UBI−D	SRPC−5095−H2−2011−OP19	GPIT−A/B	19C0−187
DTA−A	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Parameters

DLIS Name	Description	Value	
	UBI−D: Ultrasonic Borehole Imager − D		
AAMN	Automatic Amplitude Minimum Scale	2	DB
ANGO	Angular Offset	−17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
CSID	Casing Inner Diameter	4.125	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	201	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_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
USTO	Ultrasonic Time Offset	−3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI7_SW500_180_1	
	UHSV: UBI Hole Shape Analysis		
AAMN	Automatic Amplitude Minimum Scale	2	DB
ANGO	Angular Offset	−17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
CSID	Casing Inner Diameter	4.125	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	201	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_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
USTO	Ultrasonic Time Offset	−3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI7_SW500_180_1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN

Output DLIS Files

DEFAULT	UBI_NGS_046LUP	FN:60	PRODUCER	10−Sep−2021 01:27

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M01							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT M0−M1 Voltage Plus − 0	0	N/A	−318.6	−318.6	−0.005493	9.681	UV
HRLT M0−M1 Voltage Plus − 1	0	N/A	−329.7	−330.2	−0.4967	9.681	UV
HRLT M0−M1 Voltage Plus − 2	0	N/A	−337.4	−337.2	0.2227	9.681	UV
HRLT M0−M1 Voltage Plus − 3	0	N/A	−328.0	−328.4	−0.4185	9.681	UV
HRLT M0−M1 Voltage Plus − 4	0	N/A	−319.7	−319.9	−0.1586	9.681	UV
HRLT M0−M1 Voltage Plus − 5	0	N/A	−321.5	−321.6	−0.08450	9.681	UV
HRLT M0−M1 Voltage Plus − 6	0	N/A	318.9	319.2	0.3032	9.681	UV
HRLT M0−M1 Voltage Plus − 7	0	N/A	−322.7	−322.7	0	9.681	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M12							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT M1−M2 Voltage Plus − 0	0	N/A	1738	1739	0.2095	53.42	UV
HRLT M1−M2 Voltage Plus − 1	0	N/A	1807	1809	2.321	53.42	UV
HRLT M1−M2 Voltage Plus − 2	0	N/A	1841	1840	−1.365	53.42	UV
HRLT M1−M2 Voltage Plus − 3	0	N/A	1788	1790	1.992	53.42	UV
HRLT M1−M2 Voltage Plus − 4	0	N/A	1742	1742	0.5934	53.42	UV
HRLT M1−M2 Voltage Plus − 5	0	N/A	1752	1752	0.3652	53.42	UV
HRLT M1−M2 Voltage Plus − 6	0	N/A	−1755	−1757	−1.553	53.42	UV
HRLT M1−M2 Voltage Plus − 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M23							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT M2−M3 Voltage Plus − 0	0	N/A	1731	1731	0.4761	53.42	UV
HRLT M2−M3 Voltage Plus − 1	0	N/A	1808	1811	2.386	53.42	UV
HRLT M2−M3 Voltage Plus − 2	0	N/A	1845	1844	−1.342	53.42	UV
HRLT M2−M3 Voltage Plus − 3	0	N/A	1796	1798	2.499	53.42	UV
HRLT M2−M3 Voltage Plus − 4	0	N/A	1744	1745	0.8494	53.42	UV
HRLT M2−M3 Voltage Plus − 5	0	N/A	1755	1756	0.6368	53.42	UV
HRLT M2−M3 Voltage Plus − 6	0	N/A	−1746	−1748	−1.680	53.42	UV
HRLT M2−M3 Voltage Plus − 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT V34							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT A3−A4 Voltage Plus − 0	0	N/A	68590	68630	32.61	2100	UV
HRLT A3−A4 Voltage Plus − 1	0	N/A	71540	71650	114.3	2100	UV
HRLT A3−A4 Voltage Plus − 2	0	N/A	73260	73240	−25.46	2100	UV
HRLT A3−A4 Voltage Plus − 3	0	N/A	71560	71670	108.5	2100	UV
HRLT A3−A4 Voltage Plus − 4	0	N/A	69440	69490	46.80	2100	UV
HRLT A3−A4 Voltage Plus − 5	0	N/A	69900	69940	38.83	2100	UV
HRLT A3−A4 Voltage Plus − 6	0	N/A	−68110	−68170	−58.08	2100	UV
HRLT A3−A4 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT V45							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT A4−A5 Voltage Plus − 0	0	N/A	68690	68710	20.70	2100	UV
HRLT A4−A5 Voltage Plus − 1	0	N/A	71750	71870	116.1	2100	UV
HRLT A4−A5 Voltage Plus − 2	0	N/A	73450	73420	−27.93	2100	UV
HRLT A4−A5 Voltage Plus − 3	0	N/A	71720	71830	107.8	2100	UV
HRLT A4−A5 Voltage Plus − 4	0	N/A	69550	69590	36.77	2100	UV
HRLT A4−A5 Voltage Plus − 5	0	N/A	70000	70030	31.07	2100	UV
HRLT A4−A5 Voltage Plus − 6	0	N/A	−68310	−68370	−59.80	2100	UV
HRLT A4−A5 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT V56
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31

HRLT A5−A6 Voltage Plus − 0	0	N/A	68540	68560	16.94	2100	UV
HRLT A5−A6 Voltage Plus − 1	0	N/A	71600	71700	100.6	2100	UV
HRLT A5−A6 Voltage Plus − 2	0	N/A	73320	73260	−59.98	2100	UV
HRLT A5−A6 Voltage Plus − 3	0	N/A	71580	71670	92.60	2100	UV
HRLT A5−A6 Voltage Plus − 4	0	N/A	69410	69450	33.43	2100	UV
HRLT A5−A6 Voltage Plus − 5	0	N/A	69870	69900	23.94	2100	UV
HRLT A5−A6 Voltage Plus − 6	0	N/A	−68160	−68220	−63.27	2100	UV
HRLT A5−A6 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT VTP
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31

HRLT Torpedo−M0 Voltage − 0	0	N/A	−68080	−68100	−19.77	2100	UV
HRLT Torpedo−M0 Voltage − 1	0	N/A	−71410	−71490	−87.80	2100	UV
HRLT Torpedo−M0 Voltage − 2	0	N/A	−73150	−73100	47.71	2100	UV
HRLT Torpedo−M0 Voltage − 3	0	N/A	−71500	−71590	−91.14	2100	UV
HRLT Torpedo−M0 Voltage − 4	0	N/A	−69390	−69420	−31.27	2100	UV
HRLT Torpedo−M0 Voltage − 5	0	N/A	−69840	−69860	−24.72	2100	UV
HRLT Torpedo−M0 Voltage − 6	0	N/A	67920	67980	60.20	2100	UV
HRLT Torpedo−M0 Voltage − 7	0	N/A	−70000	−70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT VBD
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31

HRLT Bridle#9−M0 Voltage − 0	0	N/A	−68110	−68130	−21.56	2100	UV
HRLT Bridle#9−M0 Voltage − 1	0	N/A	−71490	−71590	−104.3	2100	UV
HRLT Bridle#9−M0 Voltage − 2	0	N/A	−73250	−73200	48.49	2100	UV
HRLT Bridle#9−M0 Voltage − 3	0	N/A	−71570	−71670	−91.86	2100	UV
HRLT Bridle#9−M0 Voltage − 4	0	N/A	−69440	−69470	−31.28	2100	UV
HRLT Bridle#9−M0 Voltage − 5	0	N/A	−69870	−69900	−29.06	2100	UV
HRLT Bridle#9−M0 Voltage − 6	0	N/A	68010	68070	65.13	2100	UV
HRLT Bridle#9−M0 Voltage − 7	0	N/A	−70000	−70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT ISO
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31

HRLT Source Current Plus − 0	0	N/A	284.2	284.2	0.03940	8.520	UA
HRLT Source Current Plus − 1	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 2	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 3	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 4	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 5	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 6	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 7	0	N/A	281.1	281.1	0	8.520	UA

High Resolution Laterolog Array − B Wellsite Calibration − HRLT MV
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31

HRLT Vertical Voltage Pl − 0	0	N/A	−320.6	−320.3	0.2594	9.681	UV
HRLT Vertical Voltage Pl − 1	0	N/A	−324.7	−324.9	−0.2177	9.681	UV
HRLT Vertical Voltage Pl − 2	0	N/A	−331.0	−330.5	0.5528	9.681	UV
HRLT Vertical Voltage Pl − 3	0	N/A	−320.0	−320.1	−0.08060	9.681	UV
HRLT Vertical Voltage Pl − 4	0	N/A	−309.0	−308.9	0.1237	9.681	UV
HRLT Vertical Voltage Pl − 5	0	N/A	−325.6	−325.4	0.1791	9.681	UV
HRLT Vertical Voltage Pl − 6	0	N/A	326.6	326.8	0.1860	9.681	UV
HRLT Vertical Voltage Pl − 7	0	N/A	−322.7	−322.7	0	9.681	UV

Hostile Litho−Density Sonde Wellsite Calibration − Background Measurement
Master: Calibration out of date 2−May−2021 7:20 Before: 9−Sep−2021 10:05 After: 9−Sep−2021 13:35

SS Cs Resolution Bkg	9.000	7.698	7.703	7.690	−0.01328	1.800	%
LS Cs Resolution Bkg	9.000	7.989	7.978	8.019	0.04087	1.800	%
LSW1 Background	100.0	71.96	70.38	70.47	0.09118	3.000	CPS
LSW2 Background	100.0	65.02	64.58	63.52	−1.057	3.000	CPS
LSW3 Background	200.0	146.1	144.8	144.3	−0.4597	6.000	CPS
LSW4 Background	250.0	183.2	180.8	180.4	−0.4252	7.500	CPS
LSW5 Background	600.0	424.9	420.1	421.2	1.040	18.00	CPS
SSW1 Background	100.0	68.97	69.08	68.56	−0.5165	3.000	CPS
SSW2 Background	200.0	118.2	117.7	117.8	0.1302	6.000	CPS
SSW3 Background	500.0	331.3	330.1	328.9	−1.180	15.00	CPS
SSW4 Background	270.0	178.4	177.3	177.1	−0.1587	8.100	CPS
SSW5 Background	200.0	127.4	127.0	127.1	0.1198	6.000	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Aluminum Measurement
Master: Calibration out of date 2−May−2021 7:46

LSW1 Aluminum	600.0	437.4	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	651.2	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	787.2	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	396.8	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	364.1	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2070	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	5832	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	8191	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3322	N/A	N/A	N/A	N/A	CPS

SSW5 Aluminum	660.0	384.2	N/A	N/A	N/A	N/A	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Lithology Measurement

Master: Calibration out of date 2−May−2021 7:41

LSW1 Iron	400.0	298.6	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	524.2	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	699.6	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	360.1	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	333.9	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1520	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4870	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	7479	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3030	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	343.3	N/A	N/A	N/A	N/A	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Caliper Calibration

Before: Calibration out of date 2−May−2021 8:12

HLDS Caliper Small Ring	12.00	N/A	16.10	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	20.13	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 1 Check

Master: Calibration out of date 2−May−2021 10:04 Before: 9−Sep−2021 10:06 After: 9−Sep−2021 13:35

Na 511 Peak Loc	40.00	39.25	39.63	39.78	0.1486	1.000	
Na 511 Peak Res	15.50	16.53	14.91	16.74	1.837	2.000	%
High Voltage	1150	1197	1172	1174	1.904	N/A	V
Na 1785 Peak Loc	142.6	141.8	142.7	142.7	0.004044	7.000	
Na 1785 Peak Res	8.500	8.905	9.365	8.178	−1.187	2.000	%
Temperature	15.50	26.59	13.81	13.78	−0.02595	N/A	DEGC
Na Count Rate	45.00	12.01	9.905	10.91	1.009	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 2 Check

Master: Calibration out of date 2−May−2021 10:04 Before: 9−Sep−2021 10:06 After: 9−Sep−2021 13:35

Na 511 Peak Loc	40.00	39.88	39.64	39.70	0.05802	1.000	
Na 511 Peak Res	15.50	15.29	15.01	15.60	0.5940	2.000	%
High Voltage	1150	1122	1099	1100	0.4370	N/A	V
Na 1785 Peak Loc	142.6	142.6	142.9	143.5	0.5947	7.000	
Na 1785 Peak Res	8.500	8.040	9.948	8.474	−1.474	2.000	%
Temperature	15.50	27.21	14.41	15.08	0.6698	N/A	DEGC
Na Count Rate	45.00	12.32	10.14	10.96	0.8186	8.000	CPS

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

Master: Calibration out of date 2−May−2021 10:04 Before: 9−Sep−2021 10:06 After: 9−Sep−2021 13:35

Coincidence Count Rate Ratio	1.000	0.9728	0.9813	0.9994	0.01810	0.05000	

High Resolution Laterolog Array − B / Equipment Identification

Primary Equipment:		
HRLT Sonde	HRLS − B	768
Auxiliary Equipment:		
HRLT lower Housing	HRLH − B	1869
HRLT Lower Cartridge	HRLC − B	1897
HRLT upper Housing	HRUH − B	975
HRLT Upper Cartridge	HRUC − B	964

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M01

Idx	Phase	HRLT M0−M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−318.6	−322.7	−280.7	−379.7
	After		−318.6			
1	Before		−329.7	−322.7	−280.7	−379.7
	After		−330.2			
2	Before		−337.4	−322.7	−280.7	−379.7
	After		−337.2			
3	Before		−328.0	−322.7	−280.7	−379.7
	After		−328.4			
4	Before		−319.7	−322.7	−280.7	−379.7
	After		−319.9			

5	Before	−321.5	−322.7	−280.7	−379.7
	After	−321.6			
6	Before	318.9	322.7	379.7	280.7
	After	319.2			
7	Before	−322.7	−322.7	−280.7	−379.7
	After	−322.7			
	(Minimum) (Nominal) (Maximum)				

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M12

Idx	Phase	HRLT M1−M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1738	1781	2095	1549
	After		1739			
1	Before		1807	1781	2095	1549
	After		1809			
2	Before		1841	1781	2095	1549
	After		1840			
3	Before		1788	1781	2095	1549
	After		1790			
4	Before		1742	1781	2095	1549
	After		1742			
5	Before		1752	1781	2095	1549
	After		1752			
6	Before		−1755	−1781	−1549	−2095
	After		−1757			
7	Before		1781	1781	2095	1549
	After		1781			
	(Minimum) (Nominal) (Maximum)					

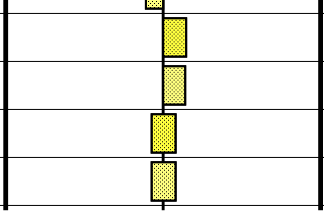
Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M23

Idx	Phase	HRLT M2−M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1731	1781	2095	1549
	After		1731			
1	Before		1808	1781	2095	1549
	After		1811			
2	Before		1845	1781	2095	1549
	After		1844			
3	Before		1796	1781	2095	1549
	After		1798			
4	Before		1744	1781	2095	1549
	After		1745			
5	Before		1755	1781	2095	1549
	After		1756			

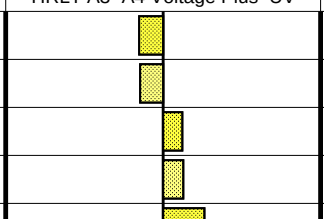
6	Before		−1746	−1781	−1549	−2095
	After		−1748			
7	Before		1781	1781	2095	1549
	After		1781			
	(Minimum) (Nominal) (Maximum)					

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V34

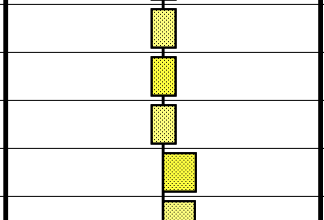
Idx	Phase	HRLT A3−A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68590	70000	82360	60900
	After		68630			
1	Before		71540	70000	82360	60900
	After		71650			
2	Before		73260	70000	82360	60900
	After		73240			
3	Before		71560	70000	82360	60900
	After		71670			
4	Before		69440	70000	82360	60900
	After		69490			
5	Before		69900	70000	82360	60900
	After		69940			
6	Before		−68110	−70000	−60900	−82360
	After		−68170			
7	Before		70000	70000	82360	60900
	After		70000			
	(Minimum) (Nominal) (Maximum)					

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V45

Idx	Phase	HRLT A4−A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68690	70000	82360	60900
	After		68710			
1	Before		71750	70000	82360	60900
	After		71870			
2	Before		73450	70000	82360	60900
	After		73420			
3	Before		71720	70000	82360	60900
	After		71830			
4	Before		69550	70000	82360	60900
	After		69590			
5	Before		70000	70000	82360	60900
	After		70030			
6	Before		−68310	−70000	−60900	−82360
	After		−68370			

7	Before	70000	70000	82360	60900
	After	70000			
	(Minimum) (Nominal) (Maximum)				

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V56

Idx	Phase	HRLT A5−A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68540	70000	82360	60900
	After		68560			
1	Before		71600	70000	82360	60900
	After		71700			
2	Before		73320	70000	82360	60900
	After		73260			
3	Before		71580	70000	82360	60900
	After		71670			
4	Before		69410	70000	82360	60900
	After		69450			
5	Before		69870	70000	82360	60900
	After		69900			
6	Before		−68160	−70000	−60900	−82360
	After		−68220			
7	Before		70000	70000	82360	60900
	After		70000			
	(Minimum) (Nominal) (Maximum)					

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT VTP

Idx	Phase	HRLT Torpedo−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−68080	−70000	−60900	−82360
	After		−68100			
1	Before		−71410	−70000	−60900	−82360
	After		−71490			
2	Before		−73150	−70000	−60900	−82360
	After		−73100			
3	Before		−71500	−70000	−60900	−82360
	After		−71590			
4	Before		−69390	−70000	−60900	−82360
	After		−69420			
5	Before		−69840	−70000	−60900	−82360
	After		−69860			
6	Before		67920	70000	82360	60900
	After		67980			
7	Before		−70000	−70000	−60900	−82360
	After		−70000			

		(Minimum) (Nominal) (Maximum)				

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT VBD

Idx	Phase	HRLT Bridle#9−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−68110	−70000	−60900	−82360
	After		−68130			
1	Before		−71490	−70000	−60900	−82360
	After		−71590			
2	Before		−73250	−70000	−60900	−82360
	After		−73200			
3	Before		−71570	−70000	−60900	−82360
	After		−71670			
4	Before		−69440	−70000	−60900	−82360
	After		−69470			
5	Before		−69870	−70000	−60900	−82360
	After		−69900			
6	Before		68010	70000	82360	60900
	After		68070			
7	Before		−70000	−70000	−60900	−82360
	After		−70000			
		(Minimum) (Nominal) (Maximum)				

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT ISO

Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		284.2	284.0	334.1	247.0
	After		284.2			
1	Before		281.1	281.1	330.7	244.4
	After		281.1			
2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
		(Minimum) (Nominal) (Maximum)				

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT MV

Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−320.6	−322.7	−280.7	−379.7
	After		−320.3			
1	Before		−324.7	−322.7	−280.7	−379.7
	After		−324.9			
2	Before		−331.0	−322.7	−280.7	−379.7
	After		−330.5			
3	Before		−320.0	−322.7	−280.7	−379.7
	After		−320.1			
4	Before		−309.0	−322.7	−280.7	−379.7
	After		−308.9			
5	Before		−325.6	−322.7	−280.7	−379.7
	After		−325.4			
6	Before		326.6	322.7	379.7	280.7
	After		326.8			
7	Before		−322.7	−322.7	−280.7	−379.7
	After		−322.7			
		(Minimum) (Nominal) (Maximum)				

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

Hostile Litho−Density Sonde / Equipment Identification

Primary Equipment:		
Gamma Source Radioactive	GSR − ZA	2945
Hostile Litho Density Sonde	HLDS − D	77
Hostile Litho Density High Voltage	HLDV − D	67
Auxiliary Equipment:		
Hostile Litho Density High Voltage Housi	HEH − H	67
Hostile Litho Density Pad	HLDP − C	83

Hostile Litho−Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Cs Resolution Bkg %	Value
Master		7.698
Before		7.703
After		7.690
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LS Cs Resolution Bkg %	Value
Master		7.989
Before		7.978
After		8.019
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LSW1 Background CPS	Value
Master		71.96
Before		70.38
After		70.47
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	LSW2 Background CPS	Value
Master		65.02
Before		64.58
After		63.52
	50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)	

Phase	LSW3 Background CPS	Value
Master		146.1
Before		144.8
After		144.3
	110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)	

Phase	LSW4 Background CPS	Value
Master		183.2
Before		180.8
After		180.4
	140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)	

Phase	LSW5 Background CPS	Value
Master		424.9
Before		420.1
After		

Phase	SSW1 Background CPS	Value
Master		68.97
Before		69.08
After		

Phase	SSW2 Background CPS	Value
Master		118.2
Before		117.7
After		

Phase	SSW3 Background CPS	Value
Master		331.3
Before		330.1
After		328.9

280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)

Phase	SSW4 Background CPS	Value
Master		178.4
Before		177.3
After		177.1

150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)

Phase	SSW5 Background CPS	Value
Master		127.4
Before		127.0
After		127.1

110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)

Master: Calibration out of date 2−May−2021 7:20 Before: 9−Sep−2021 10:05 After: 9−Sep−2021 13:35

Litho−Density Spectroscopy Cartridge − B / Equipment Identification

Primary Equipment:		
LDSC Cartridge	LDSC − B	521
Auxiliary Equipment:		
LDSC Housing	LDSH − A	319

Hostile Natural Gamma Ray Cartridge − B / Equipment Identification

Primary Equipment:		
HNGC Cartridge	HNGC − B	304
Auxiliary Equipment:		
HNGC Housing	HNGH − A	3

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS − BA	99
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH − BA	102
Gamma Source Radioactive	GSR − U	6098

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value
Master		39.25
Before		39.63
After		39.78

37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)

Phase	Na 511 Peak Res %	Value
Master		16.53
Before		14.91
After		16.74

12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)

Phase	High Voltage V	Value
Master		1197
Before		1172
After		1174

900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		141.8
Before		142.7
After		142.7

135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)

Phase	Na 1785 Peak Res %	Value
Master		8.905
Before		9.365
After		8.178

7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		26.59
Before		13.81
After		13.78

−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		12.01
Before	EXCEEDS LIMIT	9.905
After		10.91

10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)

Master: Calibration out of date 2−May−2021 10:04 Before: 9−Sep−2021 10:06 After: 9−Sep−2021 13:35

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		39.88
Before		39.64
After		39.70

37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)

Phase	Na 511 Peak Res %	Value
Master		15.29
Before		15.01
After		15.60

12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)

Phase	High Voltage V	Value
Master		1122
Before		1099
After		1100

900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		142.6
Before		142.9
After		143.5

135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)

Phase	Na 1785 Peak Res %	Value
Master		8.040
Before		9.948
After		8.474

7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		27.21
Before		14.41
After		15.08

−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		12.32
Before		10.14
After		10.96

10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)

Master: Calibration out of date 2−May−2021 10:04 Before: 9−Sep−2021 10:06 After: 9−Sep−2021 13:35

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9728
Before		0.9813
After		0.9994

0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)

Master: Calibration out of date 2−May−2021 10:04

Before: 9−Sep−2021 10:06

After: 9−Sep−2021 13:35

DTS Telemetry Tool / Equipment Identification

Primary Equipment:		
DTC−H Auxiliary Cartridge	DTCH − A	8799
DTC−H Telemetry Cartridge	DTCH − A	8799
Auxiliary Equipment:		
DTCH Telemetry Cartridge Housing	ECH − KC	9842

Company: **International Ocean Discovery Program**

Schlumberger

Well: **Expedition 396, Site U1571A**

Field: **Mid−Norwegian Cont. Margin Magmatism**

Rig: **JOIDES Resolution**

Country: **Iceland**

Ultrasonic Borehole Imager (UBI)