

DISCLAIMER

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OTHER SERVICES1
 OS1: FMS/DSI
 OS2: HNGS
 OS3: HLDS
 OS4: HRLA
 OS5: UBI

OTHER SERVICES2
 OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1
 Hole was drilled with a 9 7/8" RCB bit to TDD of mbsf.
 10 bbls of 10.5lb/gal heavy weight mud pumped at TD prior to bit release.
 Downlog of Fluid Velocity erratic, using DFVL of 193 us/ft instead as an approximate for fluid velocity.
 Rotating sub started after pickup for each pass and stopped where HLDS caliper was closed or opened, then restarted. See log.
 3 logging passes using 250Khz frequency for UBI.
 Pass 1: 0.4inch vert resolution, 180 samples/rev
 All logs recorded via wireline thru 5-5.5" drillpipe and RCB coring BHA consisting of a bit release sub, Kinley sub, drill collars. The bit was released at TD prior to logging.
 Pass 2: 0.2inch vert resolution, 180 samples/rev
 Pass3: 0.4inch vert resolution, 140 samples/rev with 1 waveforem.
 Pass 3 provides longest search window length giving longer reach for radii.

REMARKS: RUN NUMBER 2




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

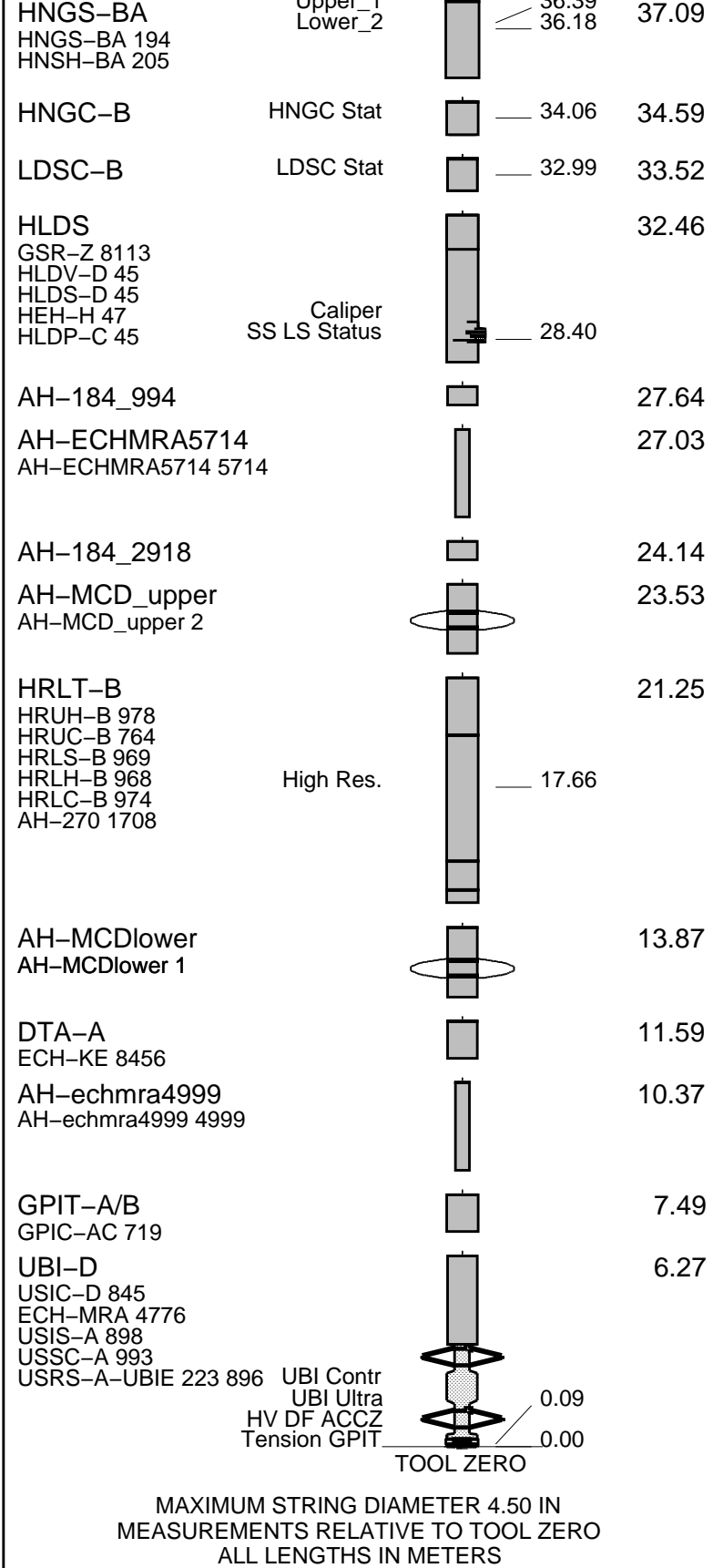
EQUIPMENT DESCRIPTION

RUN 1
SURFACE EQUIPMENT
 GSR-U 616008
 WITM (EDTS)-A 1

RUN 1
DOWNHOLE EQUIPMENT

LEH-MT	MDSB_EDTC		40.46
	Mud Tempe		39.07
AH-369	CTEM		39.50
	Gamma Ray		37.43
EDTC-B	EFTB DIAG		39.07
	TelStatus		
EDTH-B 8528	EDTCB Ele		37.09
EDTC-B 8529	Upper 1		26.20

RUN 2



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

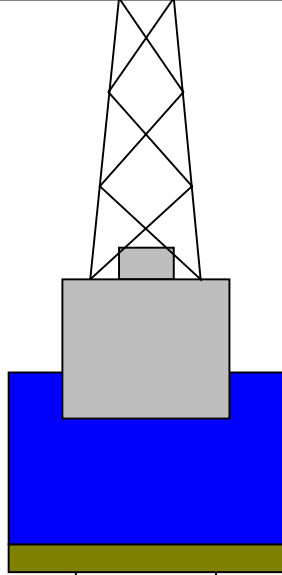
Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-2469

-2469

-2458



0

7.75

4.1

Sea Floor



0

8.25

3.80

Sea Floor

95.8

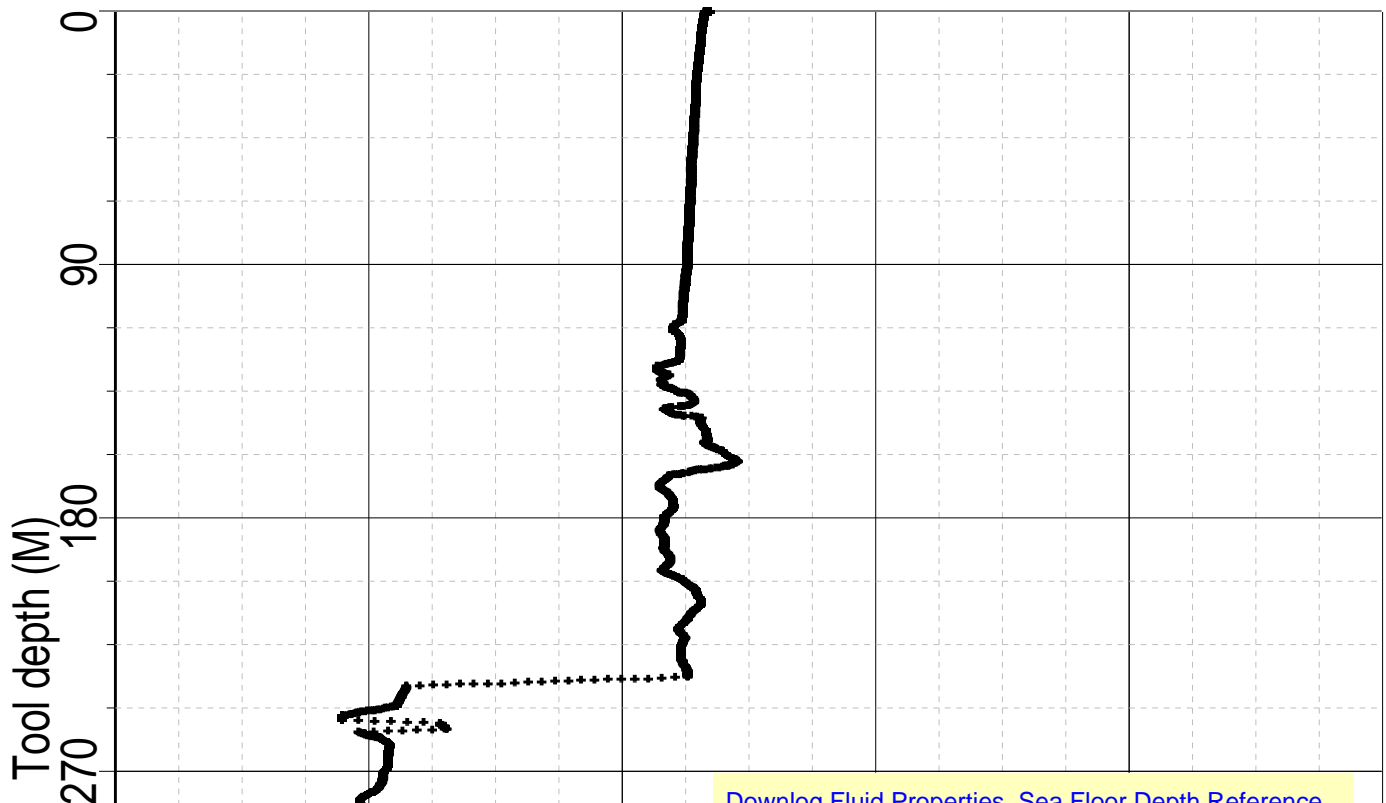
9.875

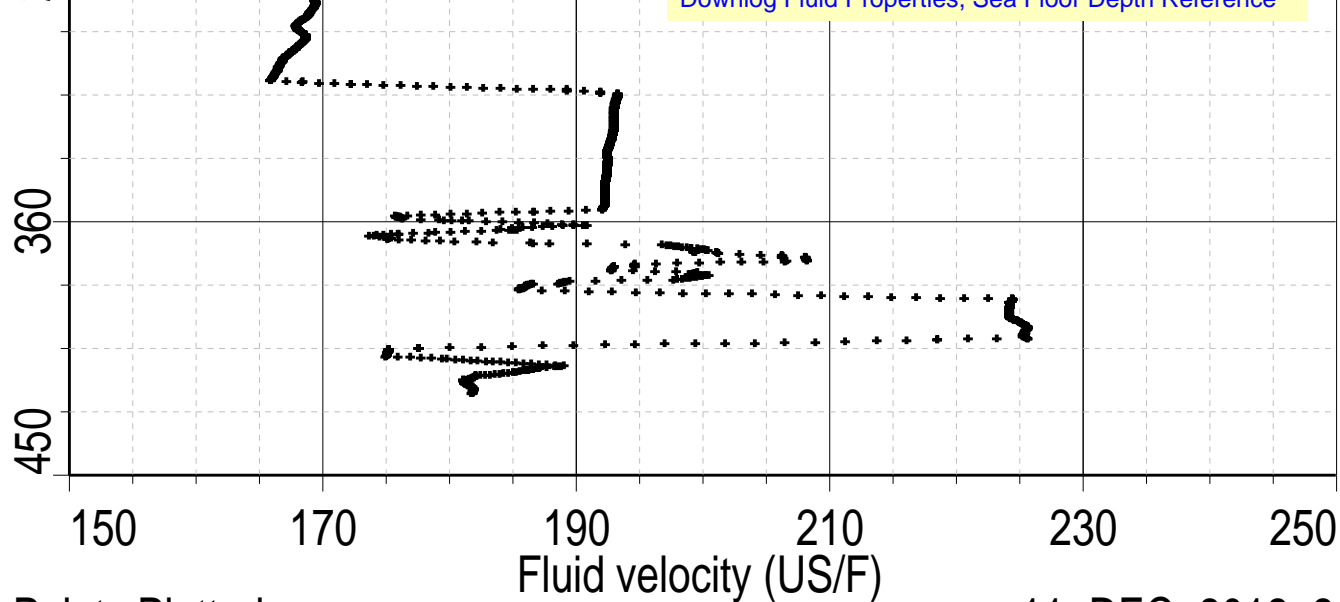
Open Hole

471.6

Total Depth

Index: 420.9 – -123.3 M





3572 Points Plotted

11-DEC-2012 2:54

Company: Lamont Doherty Well: Expedition 344, Site U1414A

Input DLIS Files

DEFAULT UBI_HRLA_LDL_NGS_027LUP FN:34 PRODUCER 10-Dec-2012 06:35 2798.1 M 2446.3 M

Output DLIS Files

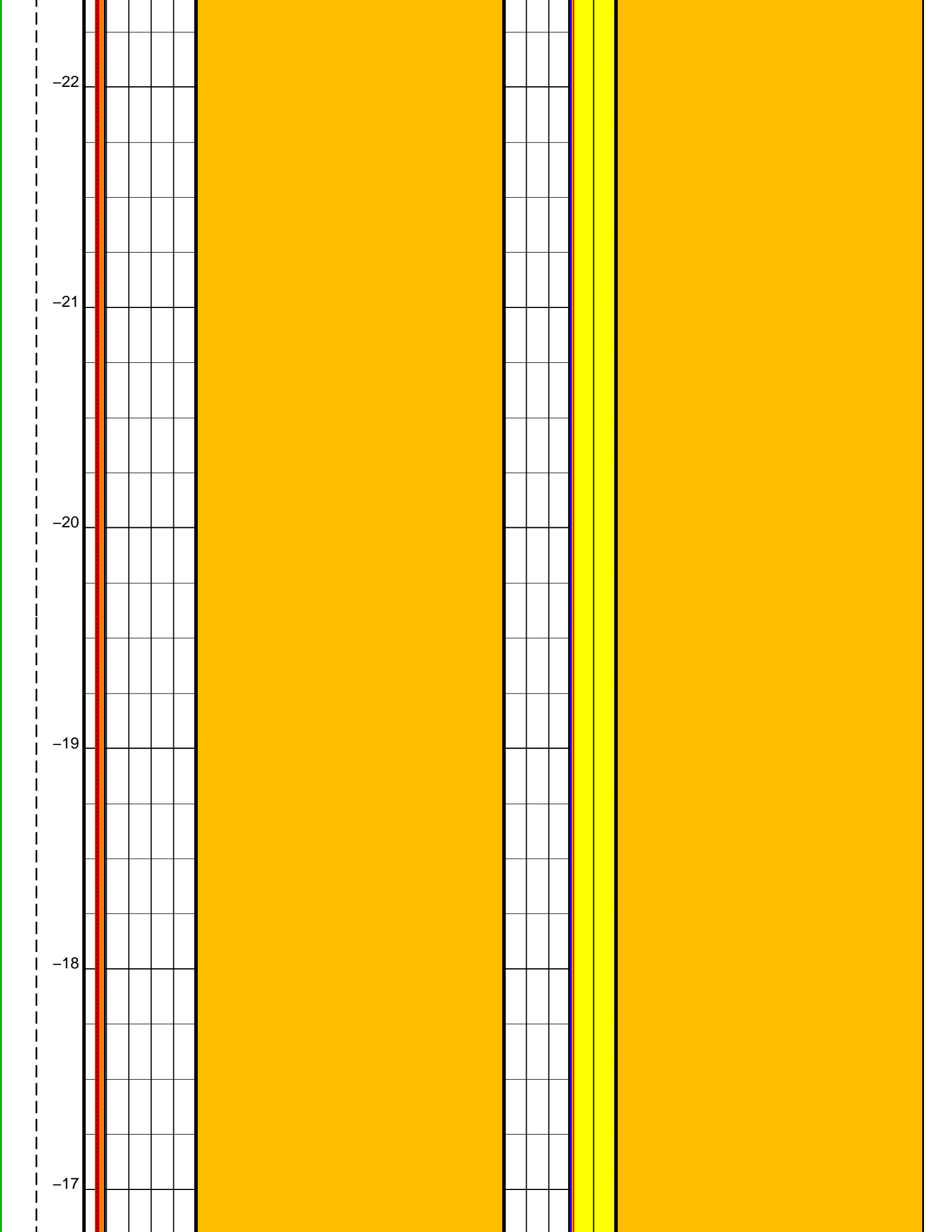
DEFAULT UBI_HRLA_LDL_NGS_062PUP FN:81 PRODUCER 11-Dec-2012 04:36 329.2 M -22.7 M

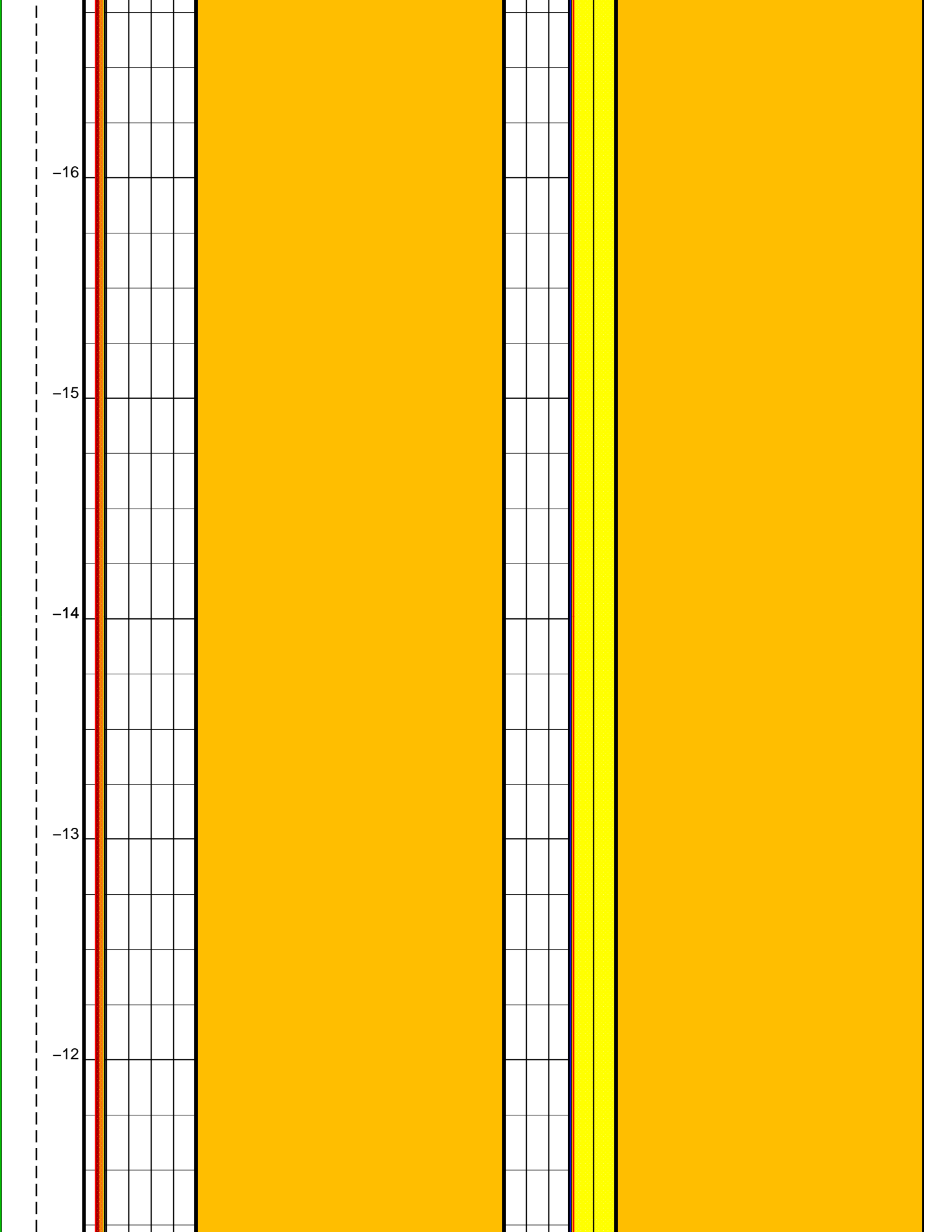
OP System Version: 19C0-187

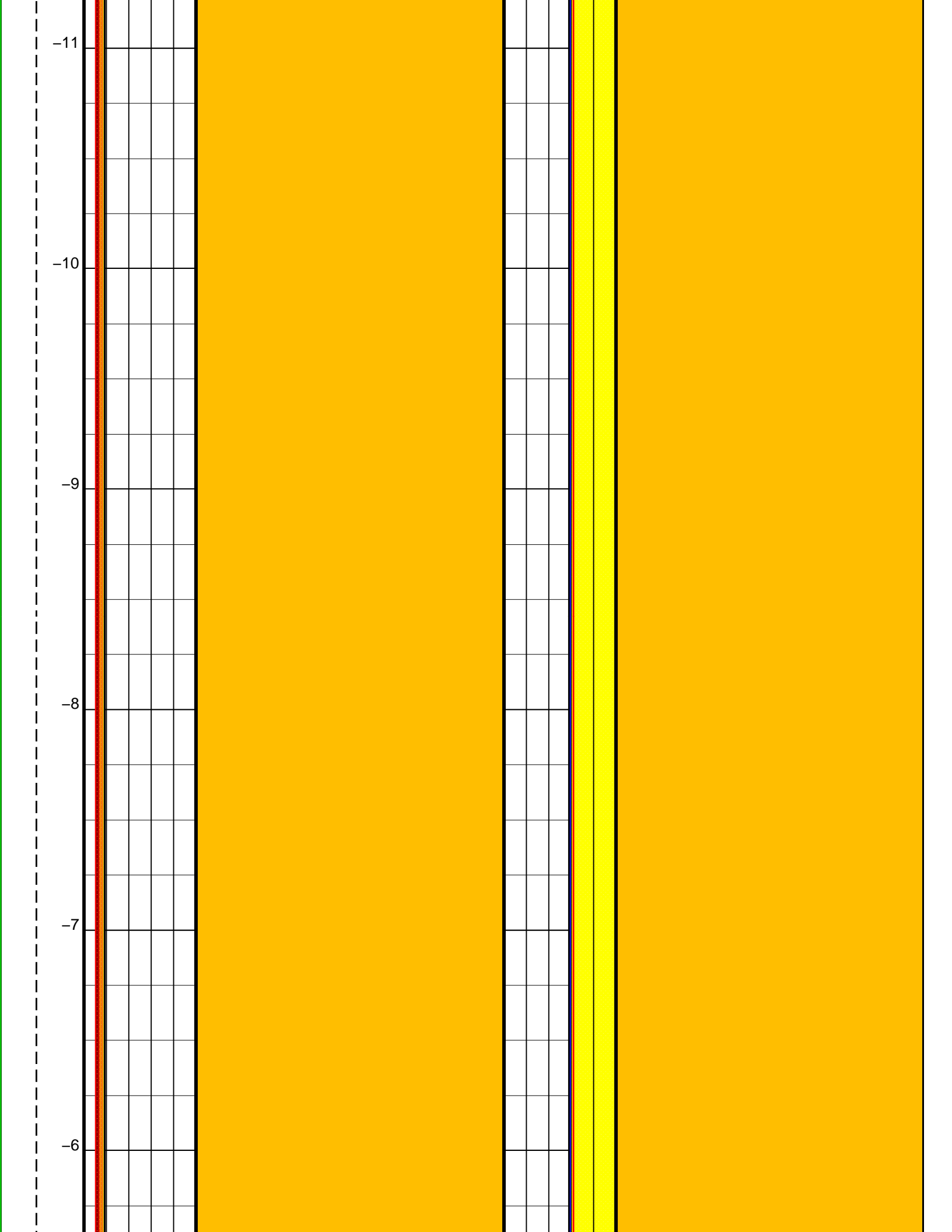
UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

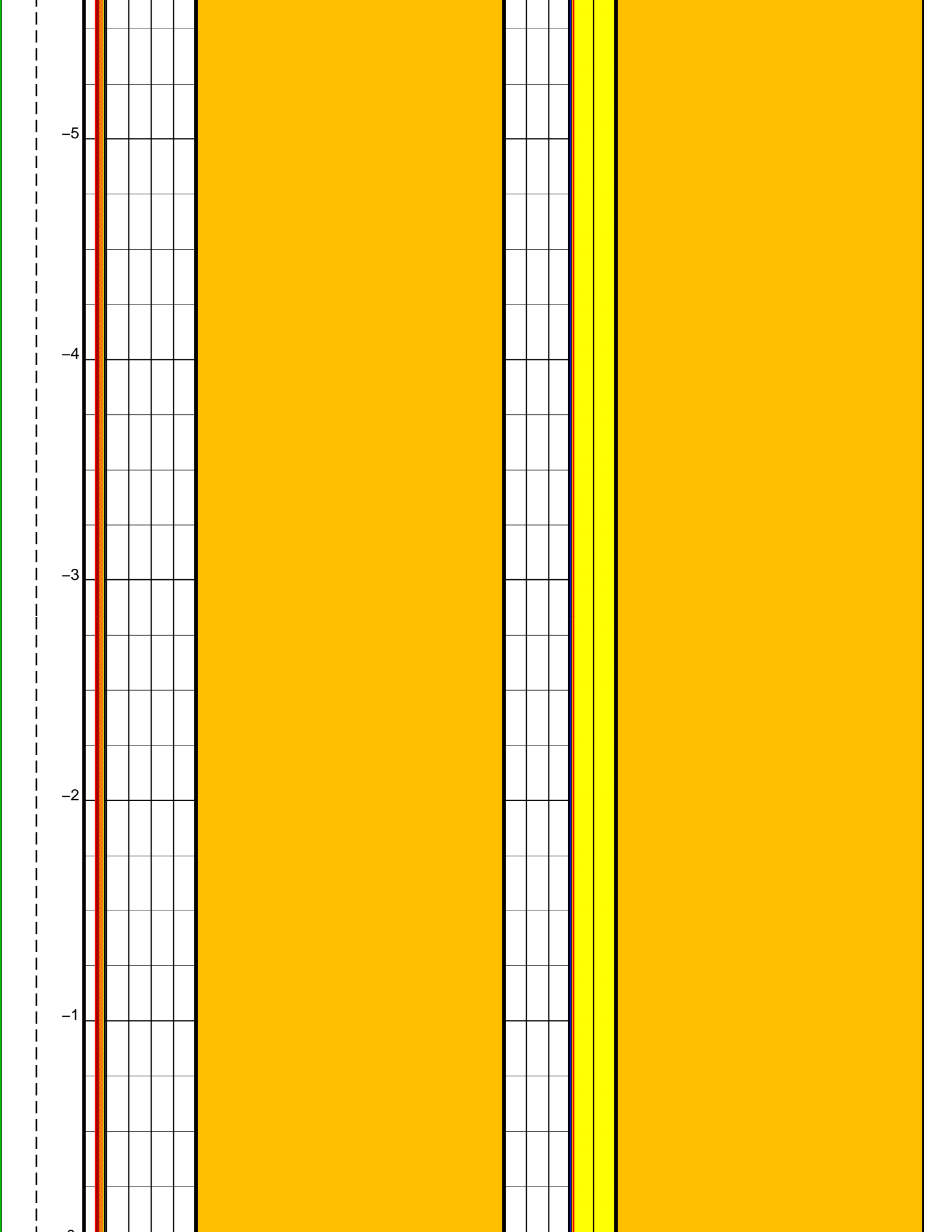
	HIGH Amplitude (FA75) 0 (DB) 50		Radius max (UTMX) 3 (IN) 6	
Gamma Ray (GR_EDTC) (GAPI) 0 75	MEDIAN of Amplitude (FAED) 0 (DB) 50		Radius min (UTMN) 3 (IN) 6	
Fluid velocity (CFVL) (US/F) 150 250	Maximum of Amplitude (UAMX) 0 (DB) 50		Radius HIGH (FT75) 3 (IN) 6	
Cable Speed (CS) (F/HR) 0 1000	Min. of Amplitude (UAMN) 0 (DB) 50		Radius LOW (FT25) 3 (IN) 6	
Rev. speed (RSAV) (RPS) 6 (RPS) 8	LOW Amplitude (FA25) 0 (DB) 50	Corrected Amplitude (AWCN) (DB) -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	MEDIAN Radius (FTED) 3 (IN) 6	Corrected transit time (TTCN) (US) -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

3rd Pass, Sea Floor Depth Reference



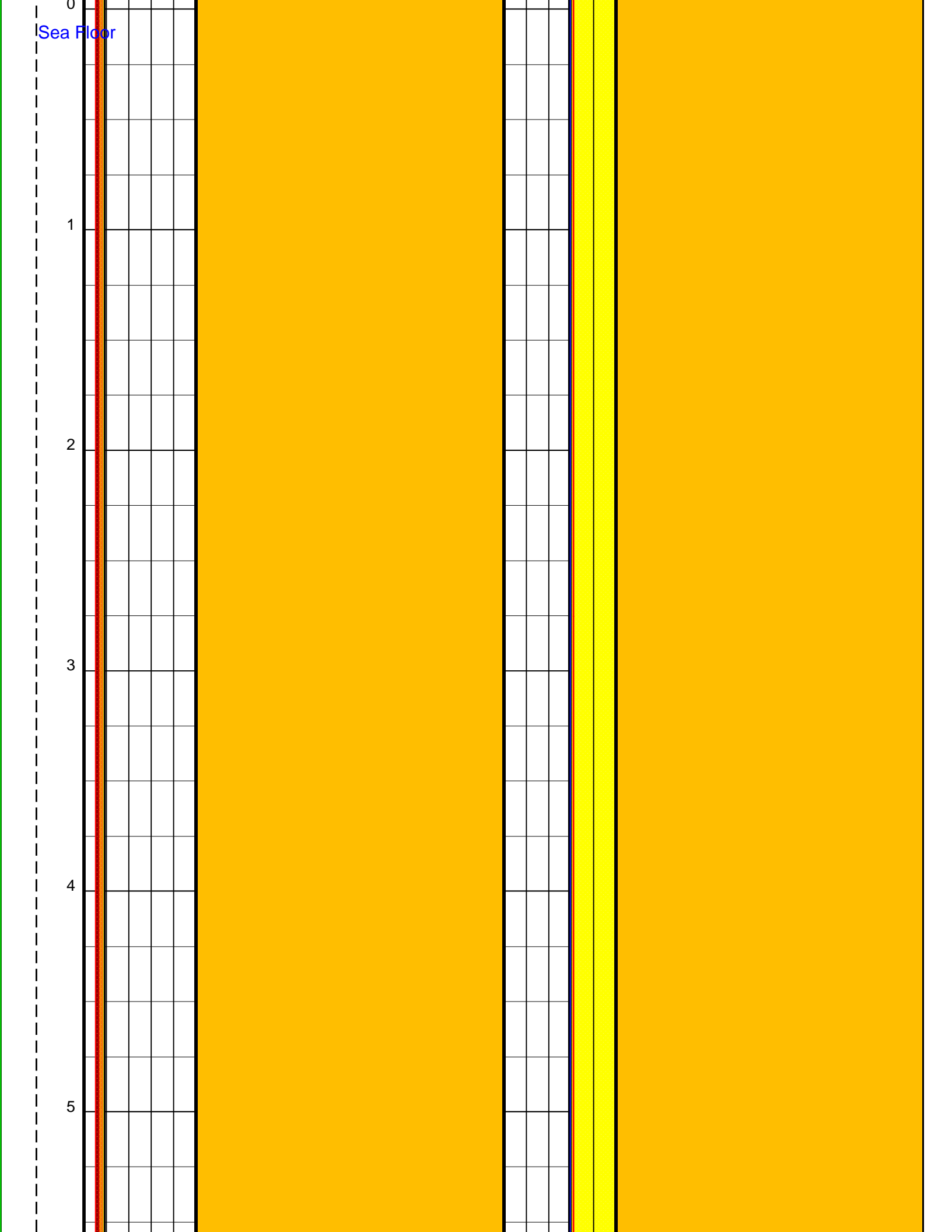


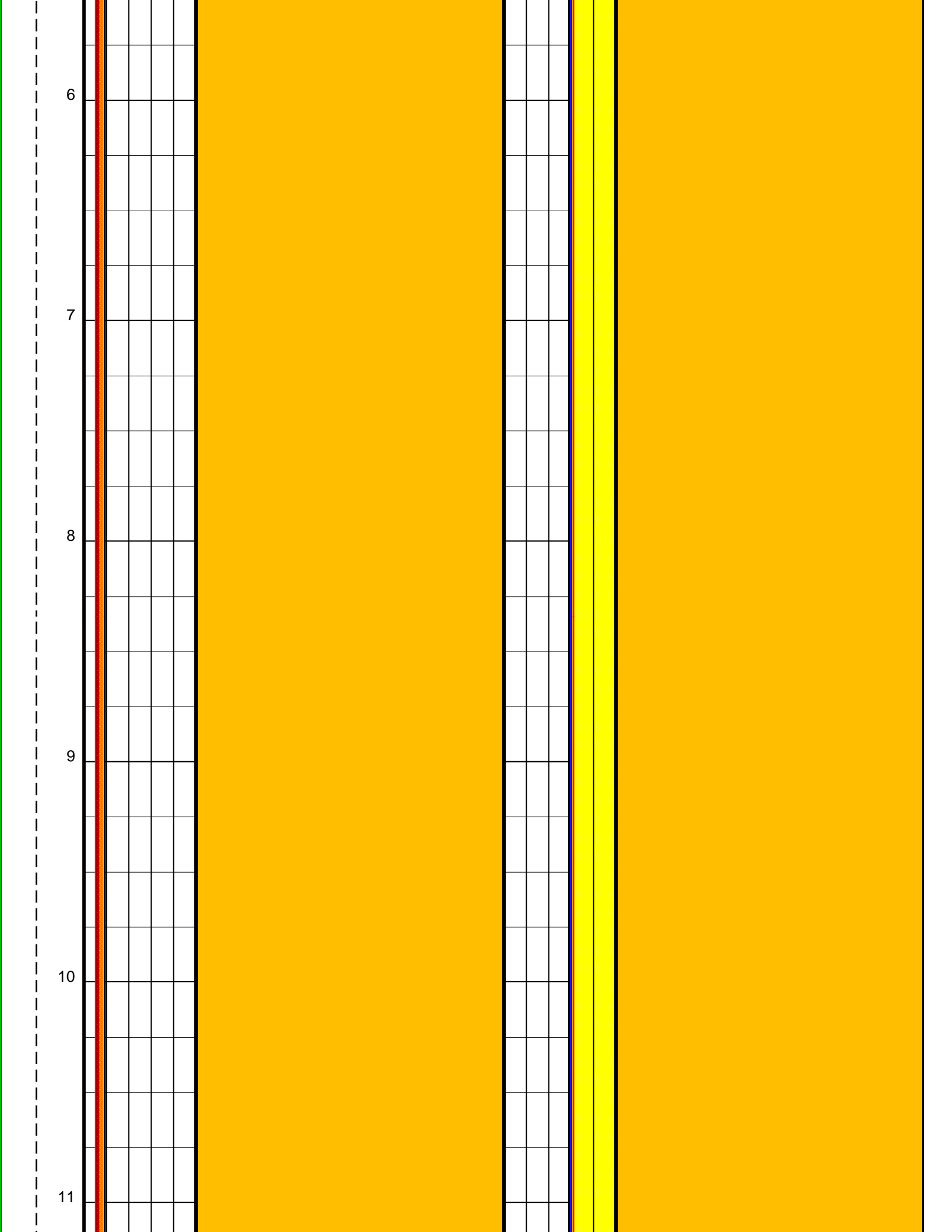




Sea Floor

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1
2
3
4
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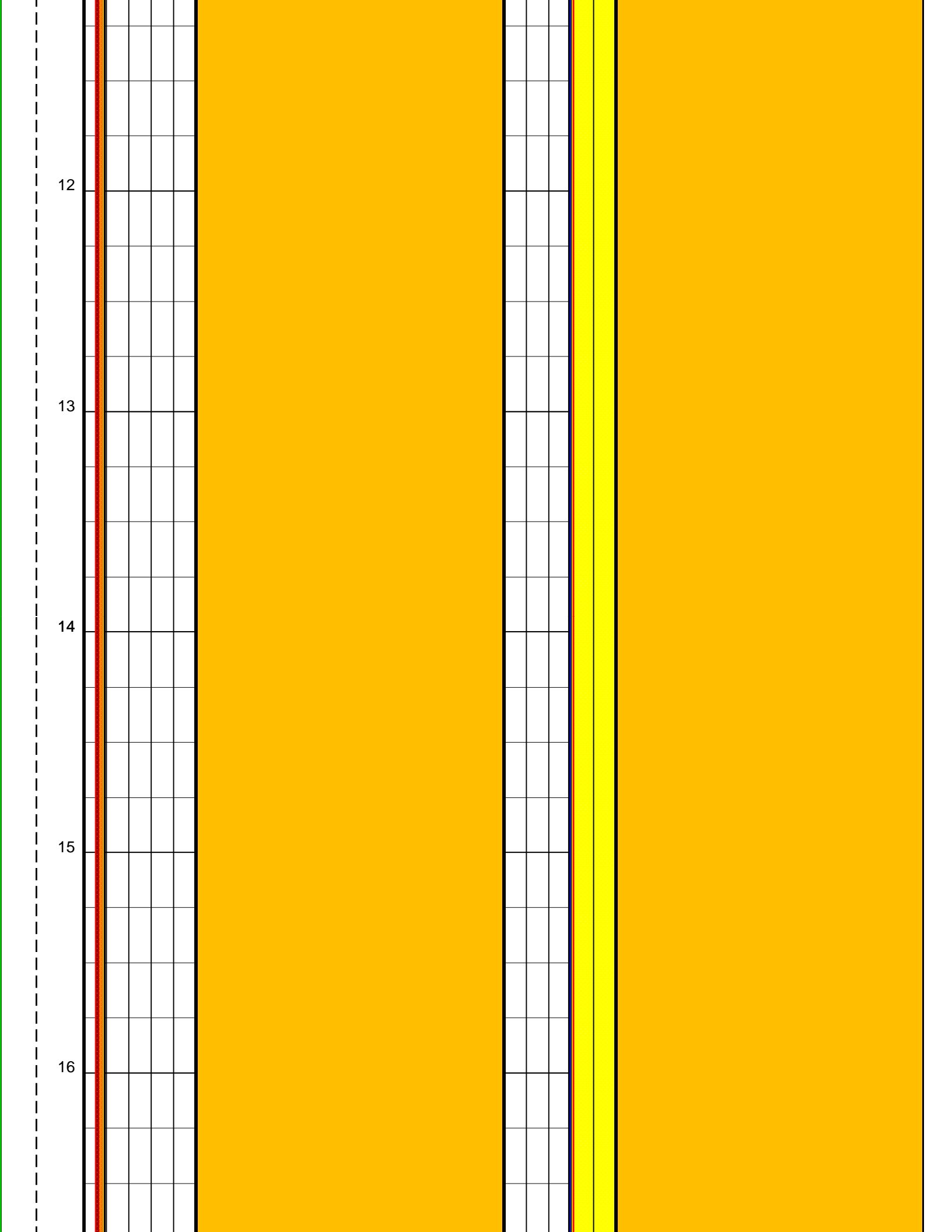
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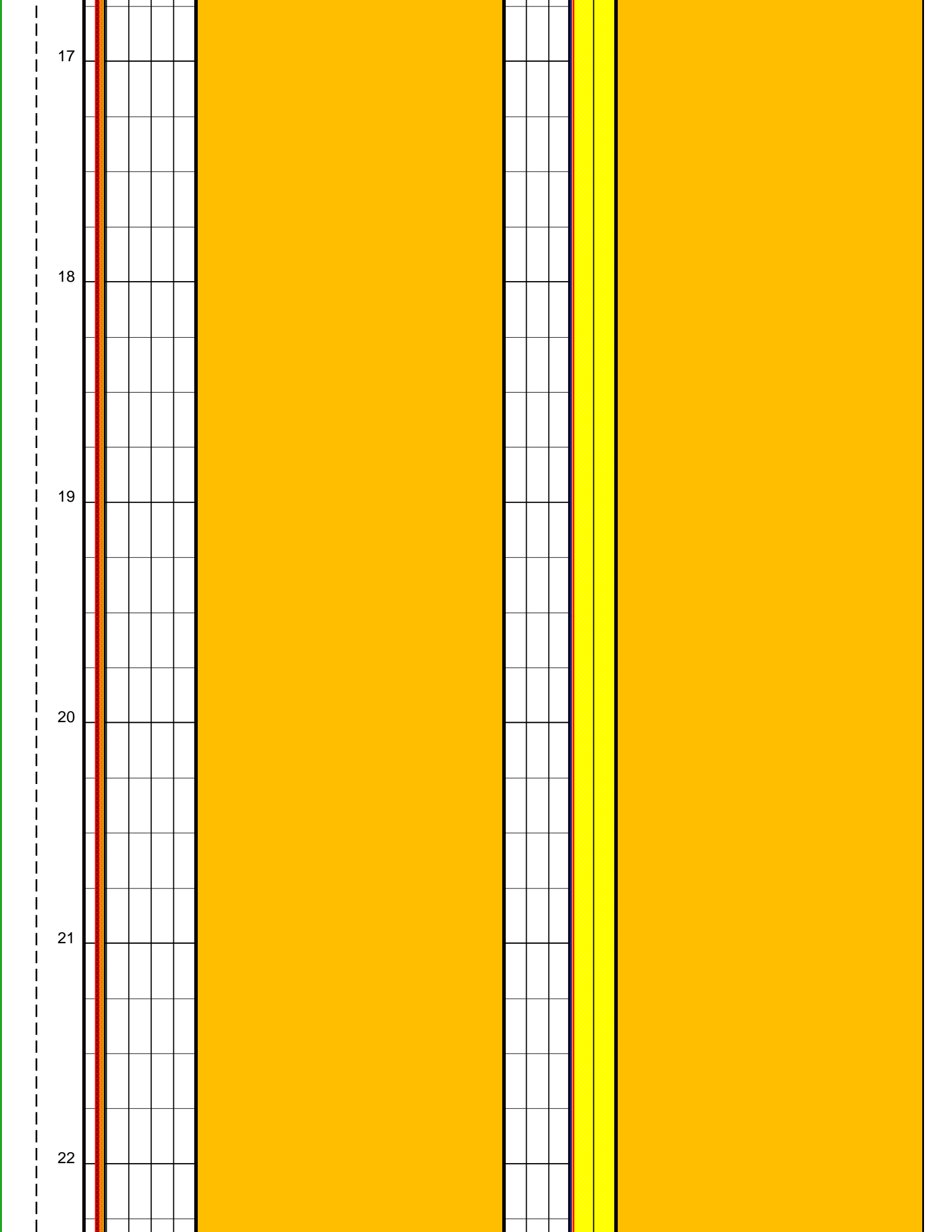
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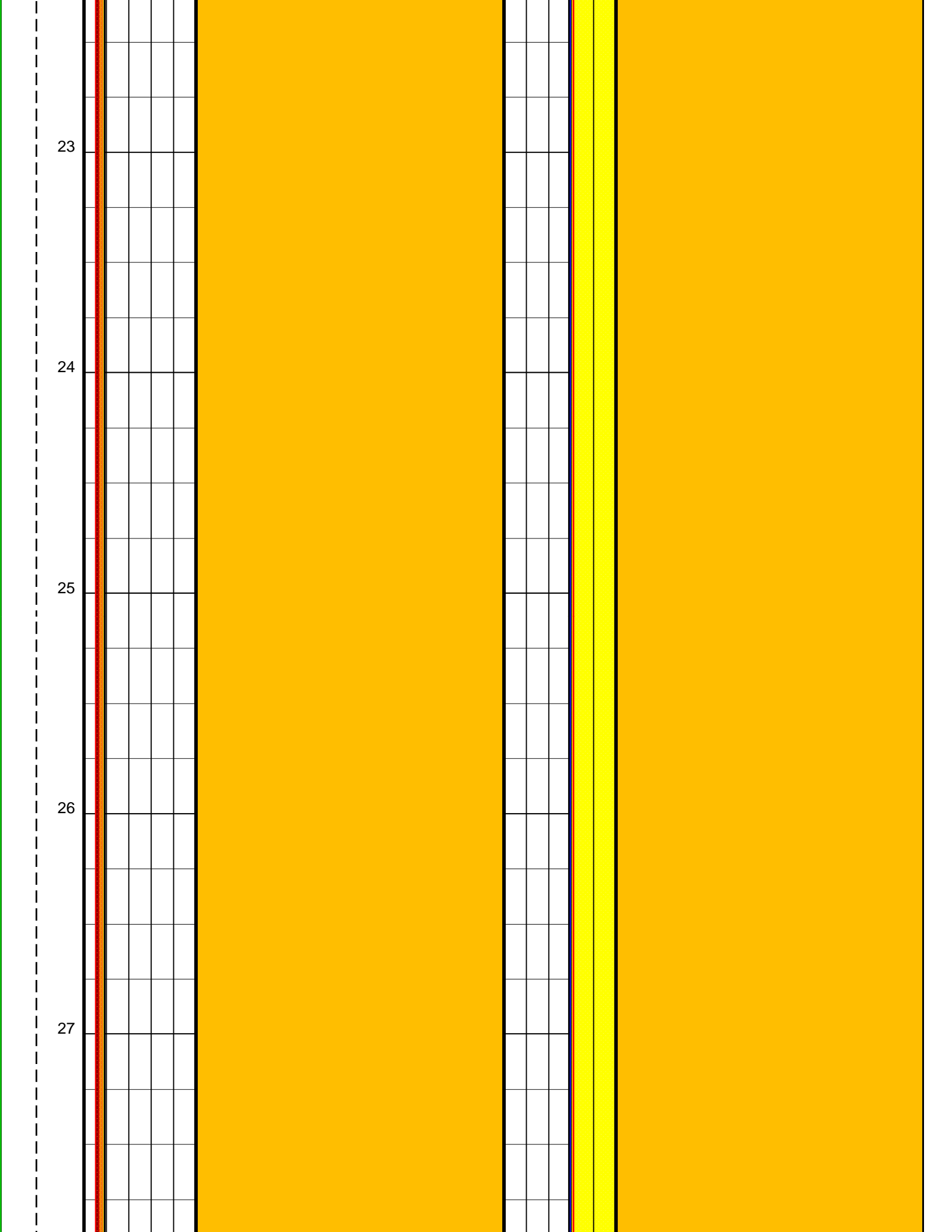
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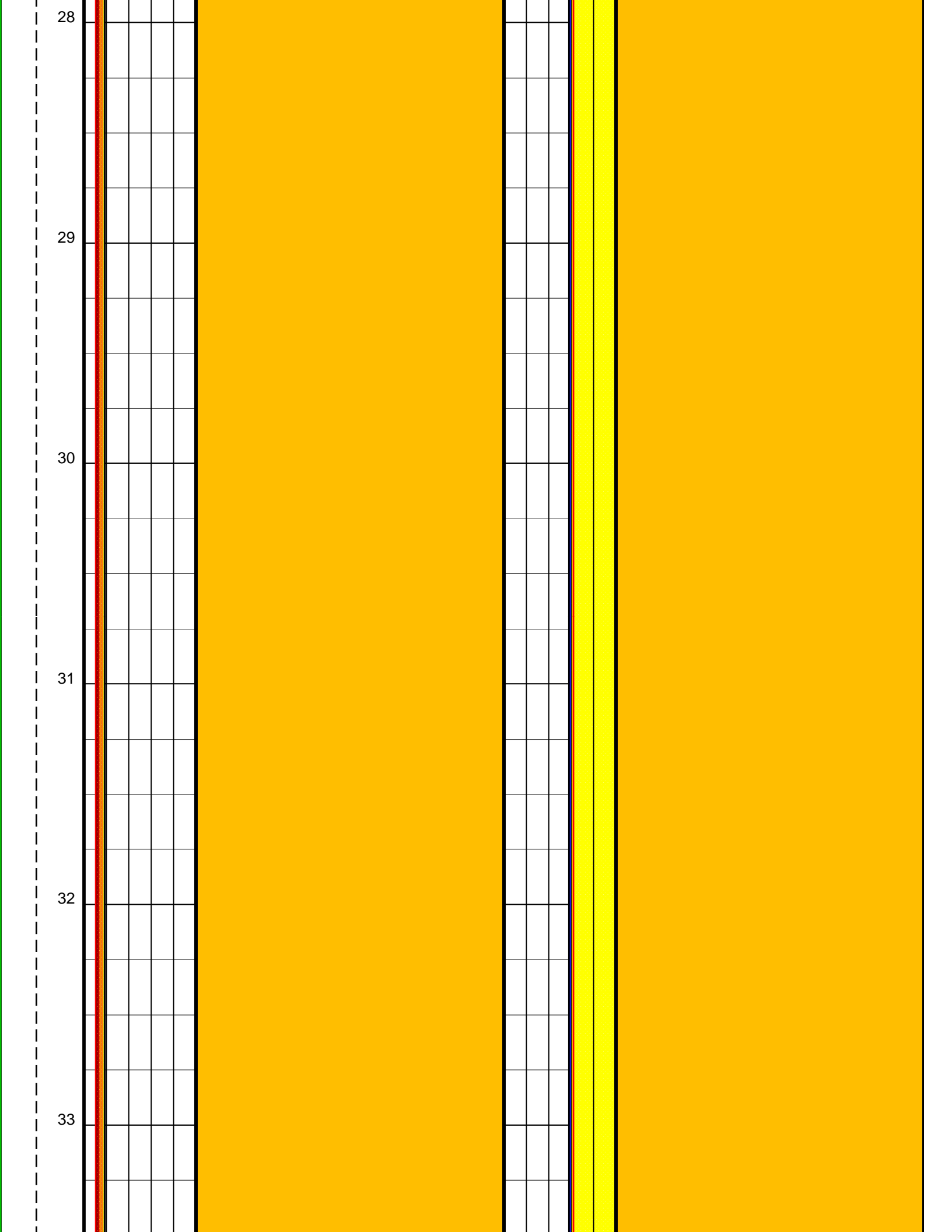
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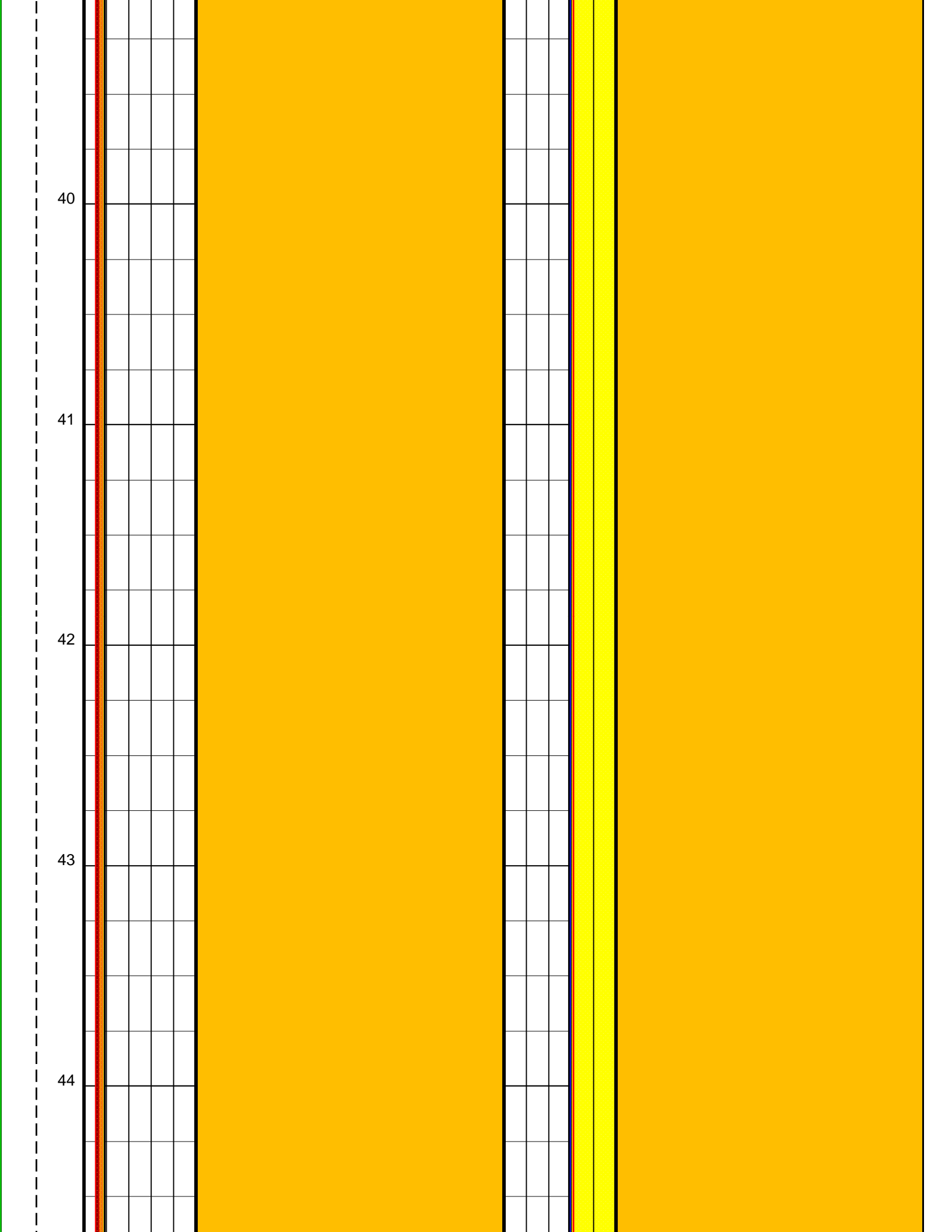
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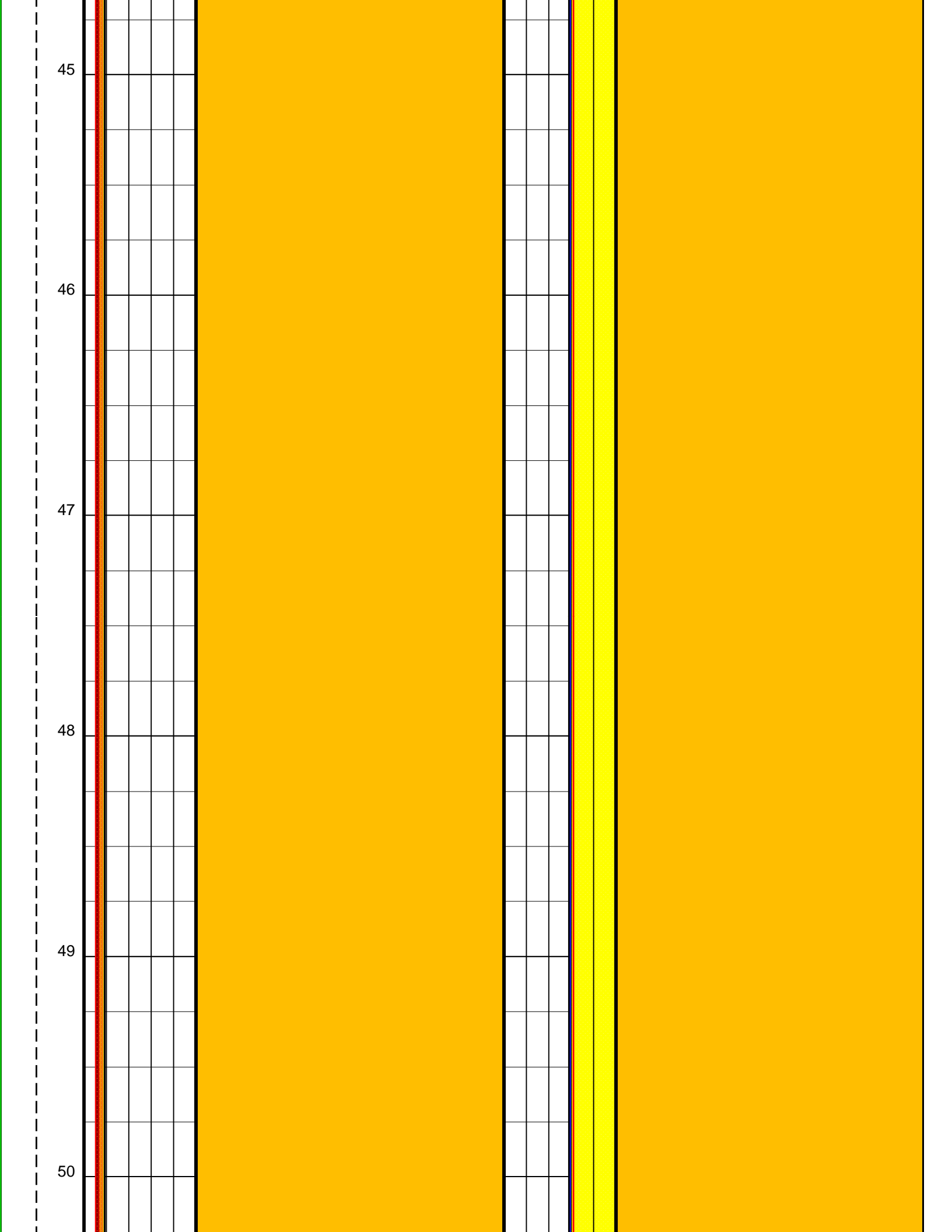
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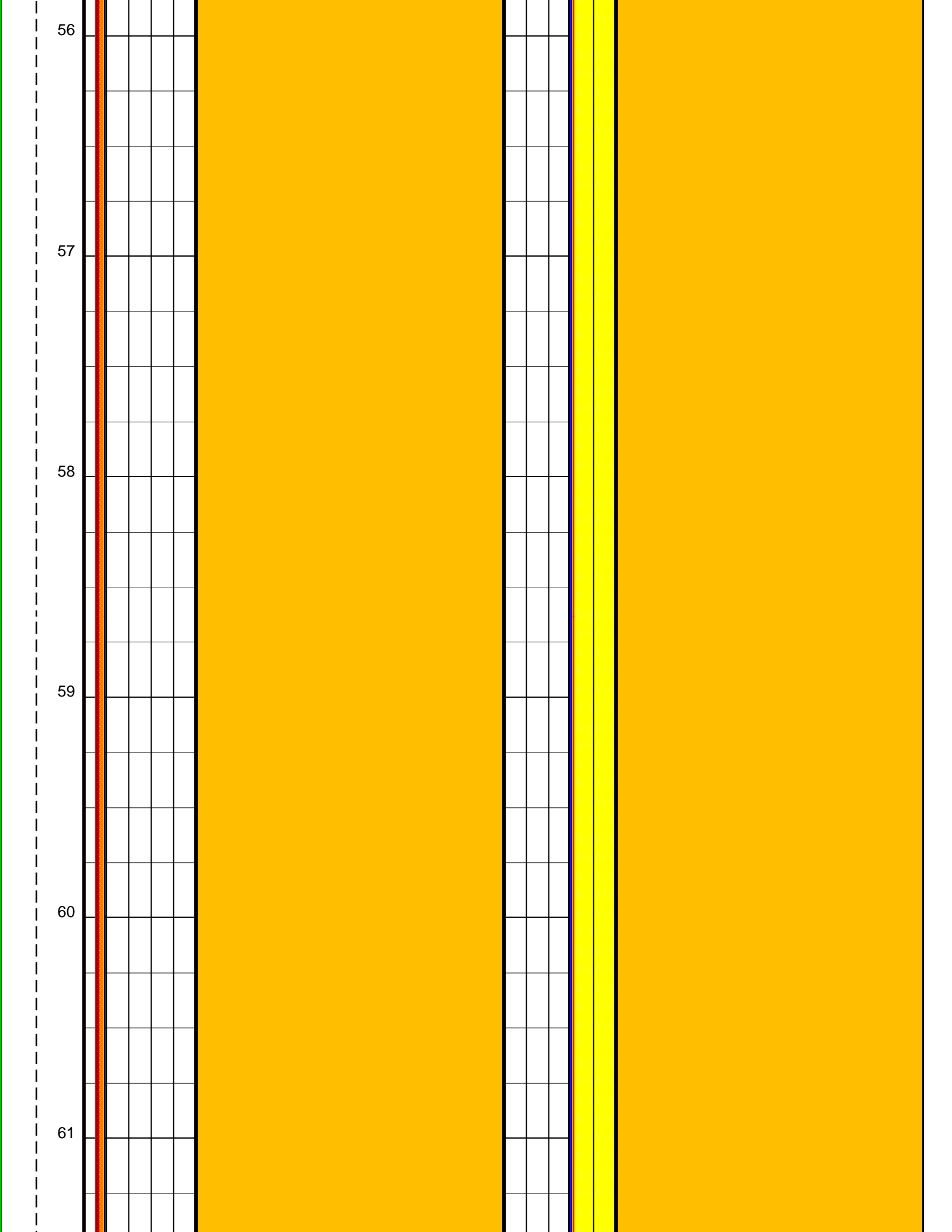
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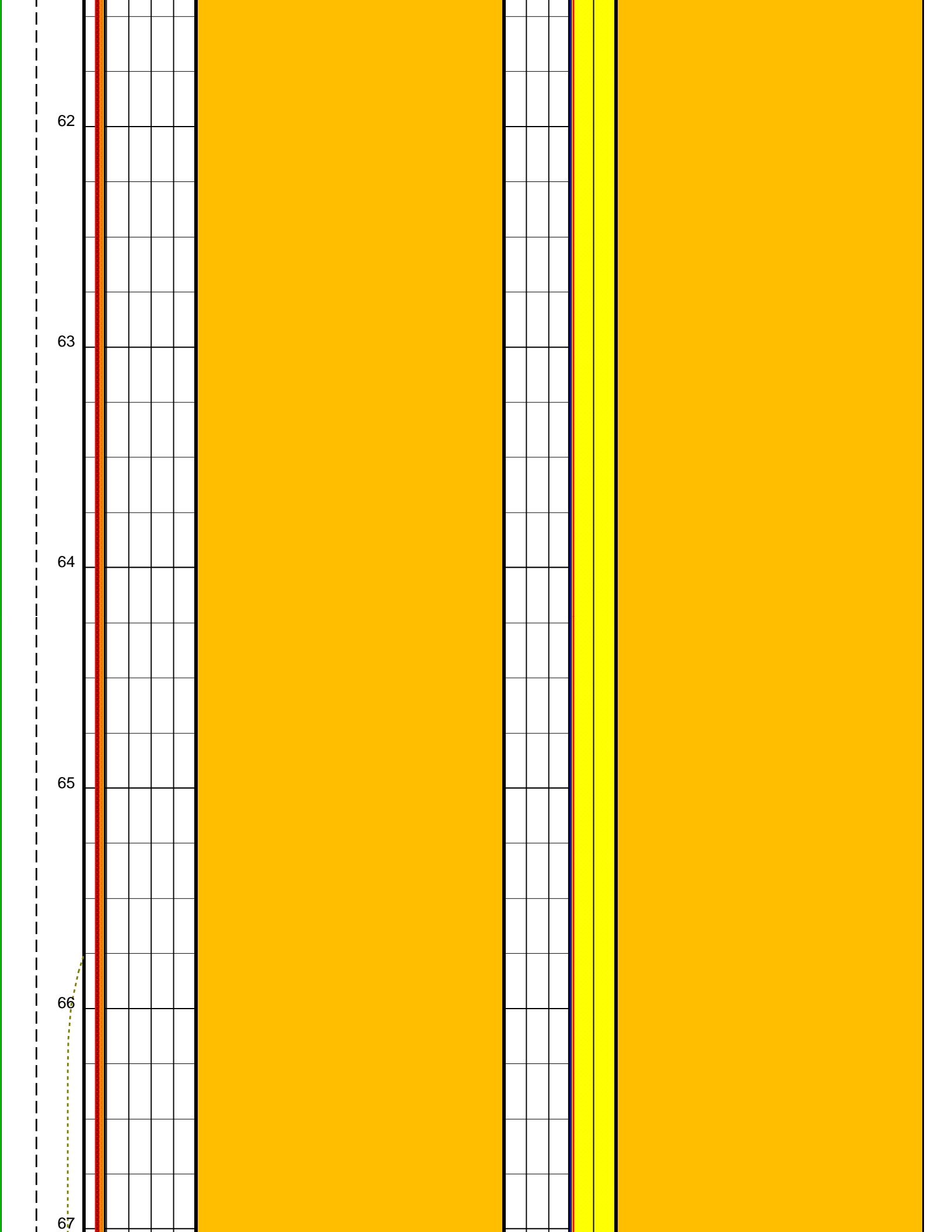
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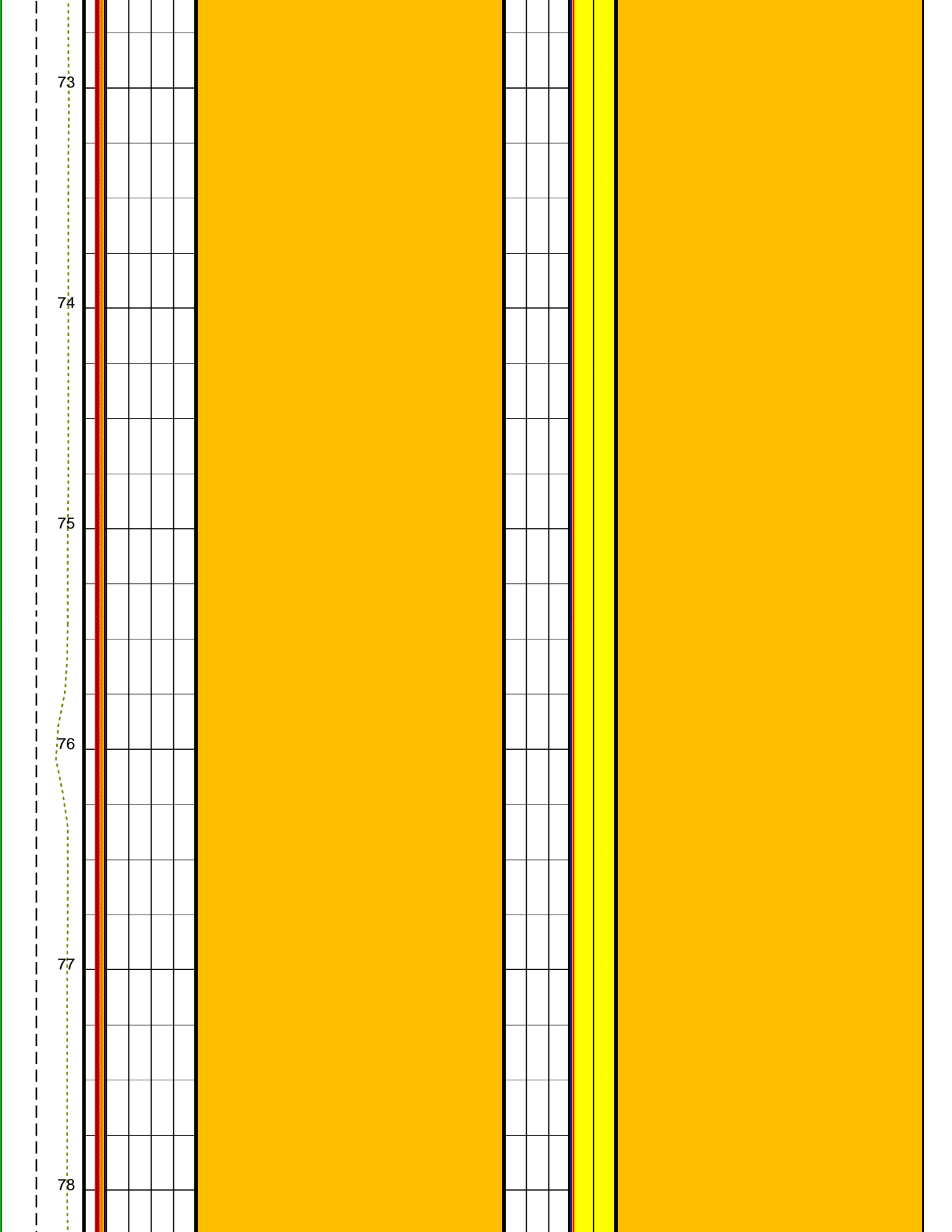
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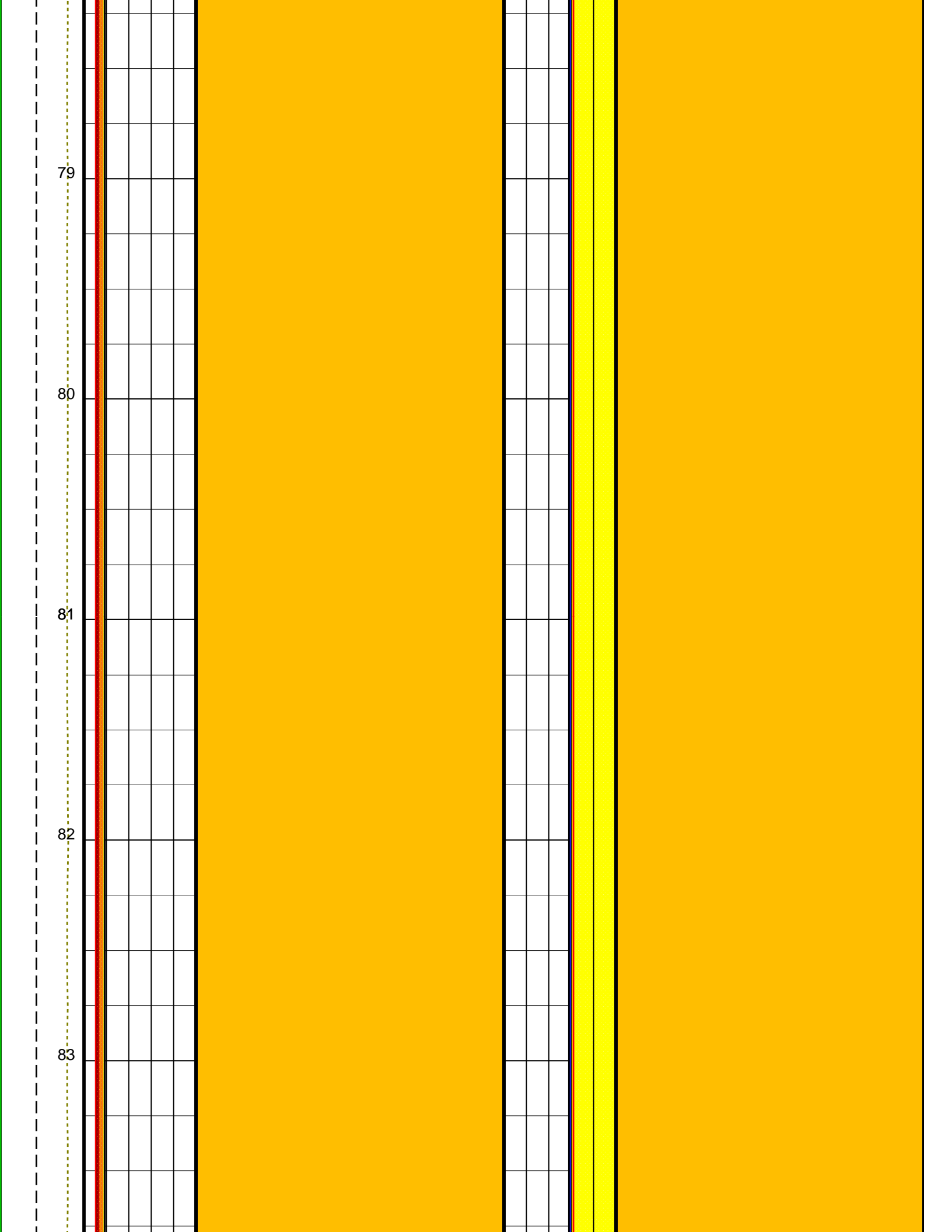
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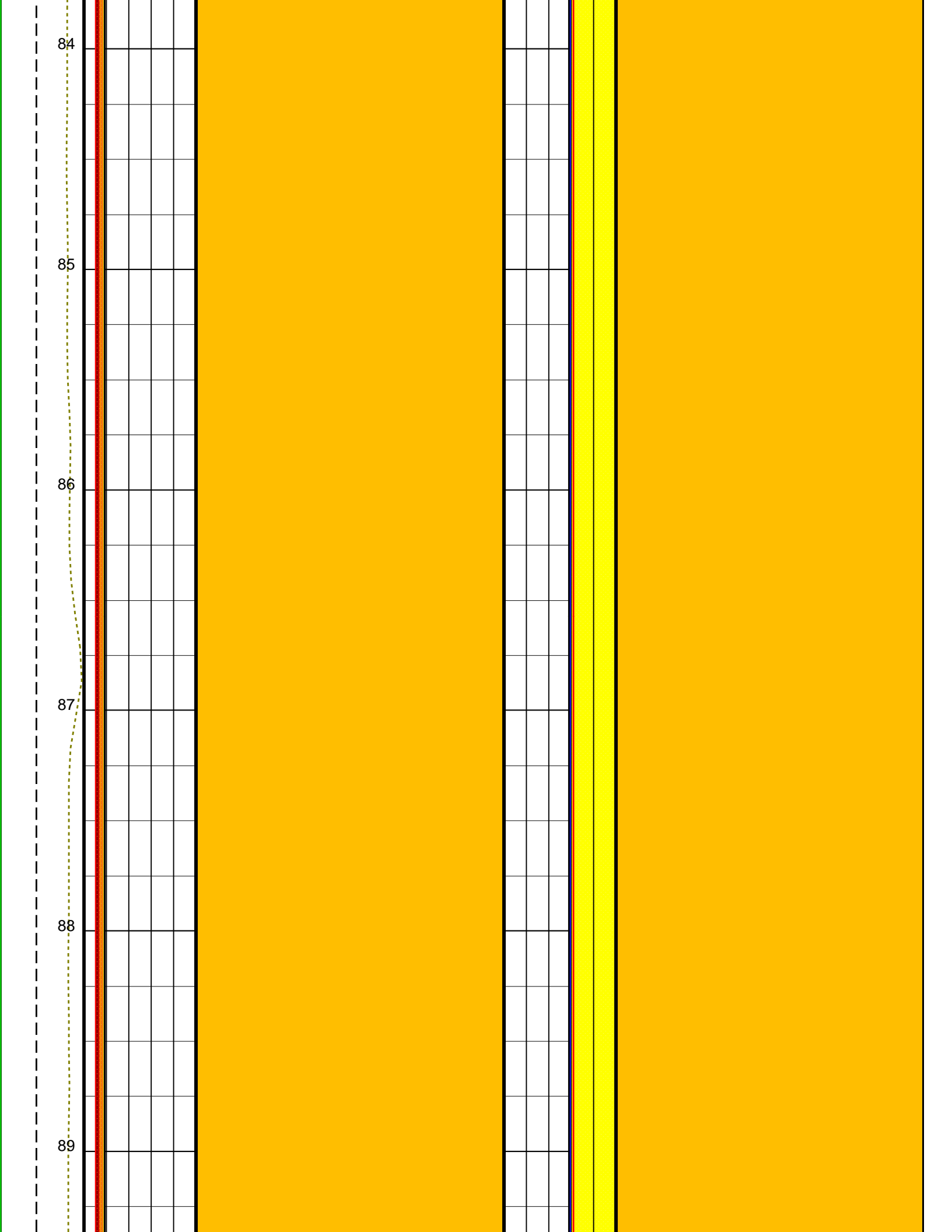
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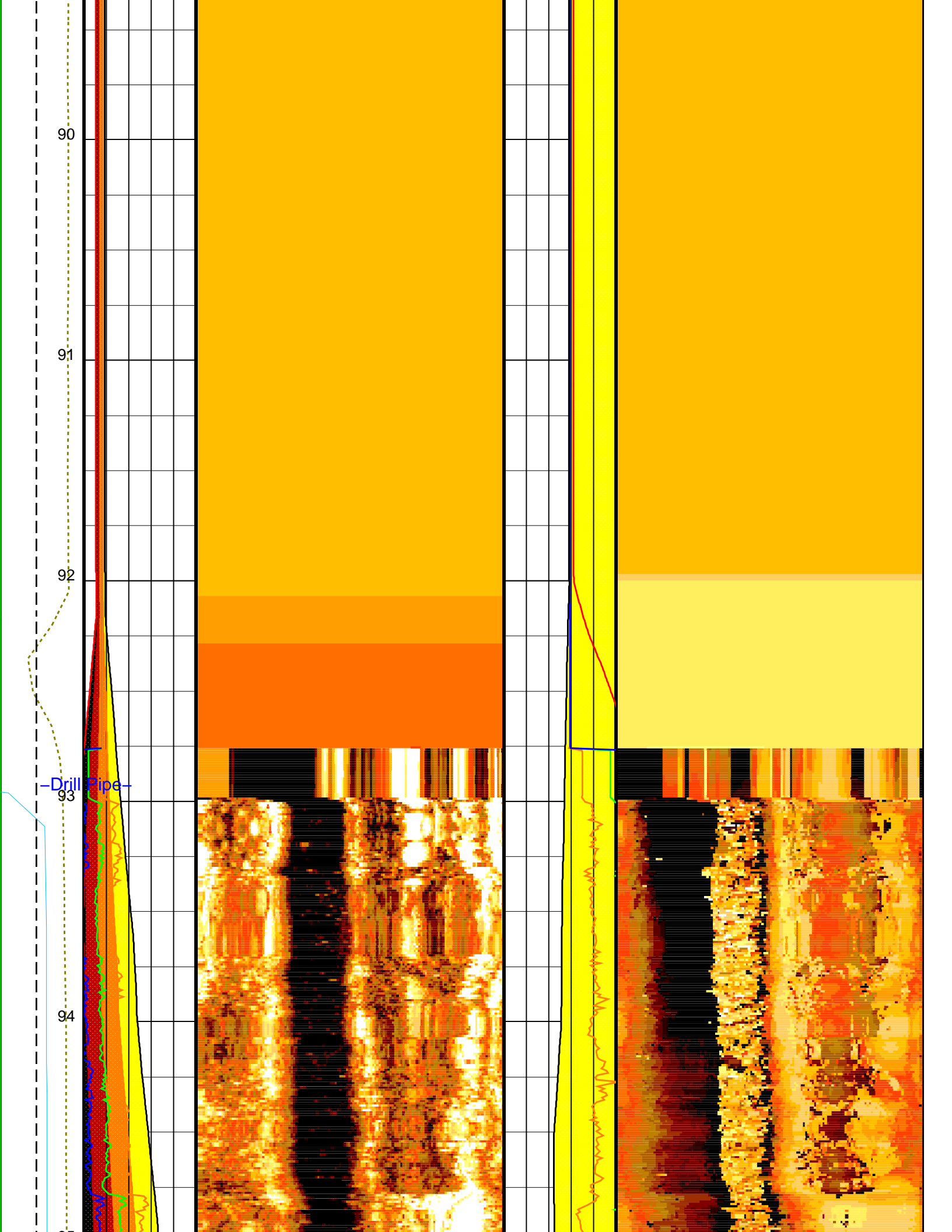
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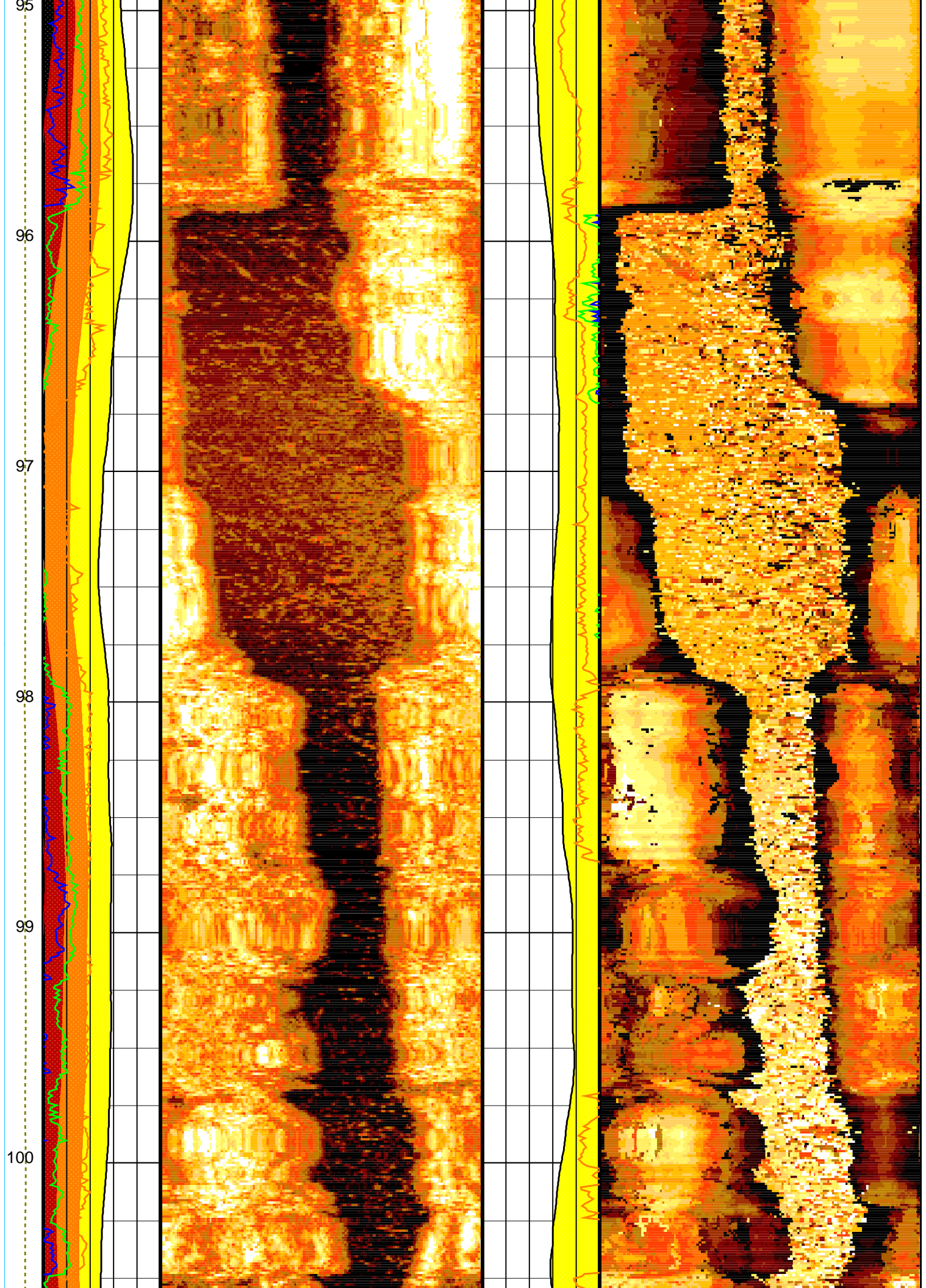
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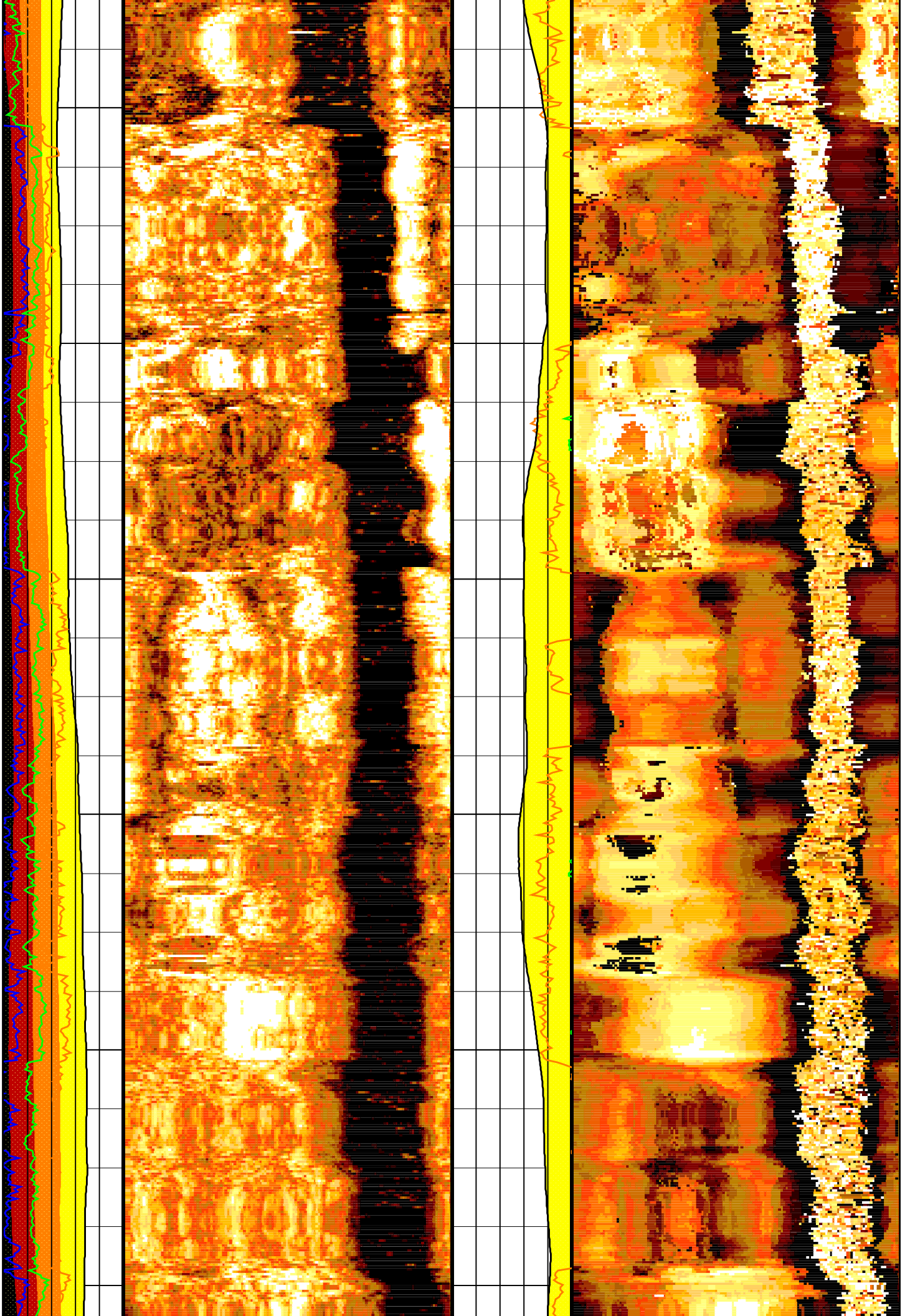
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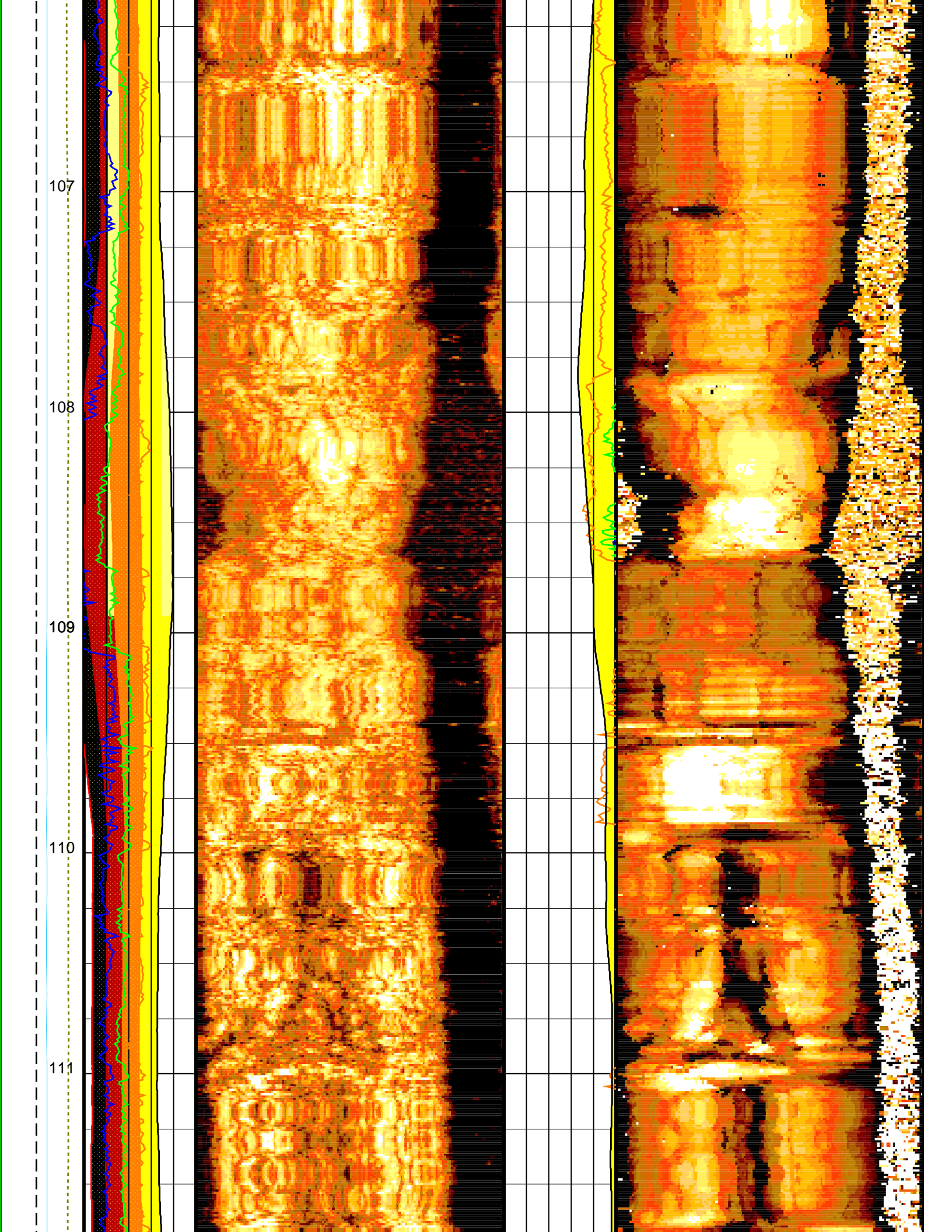
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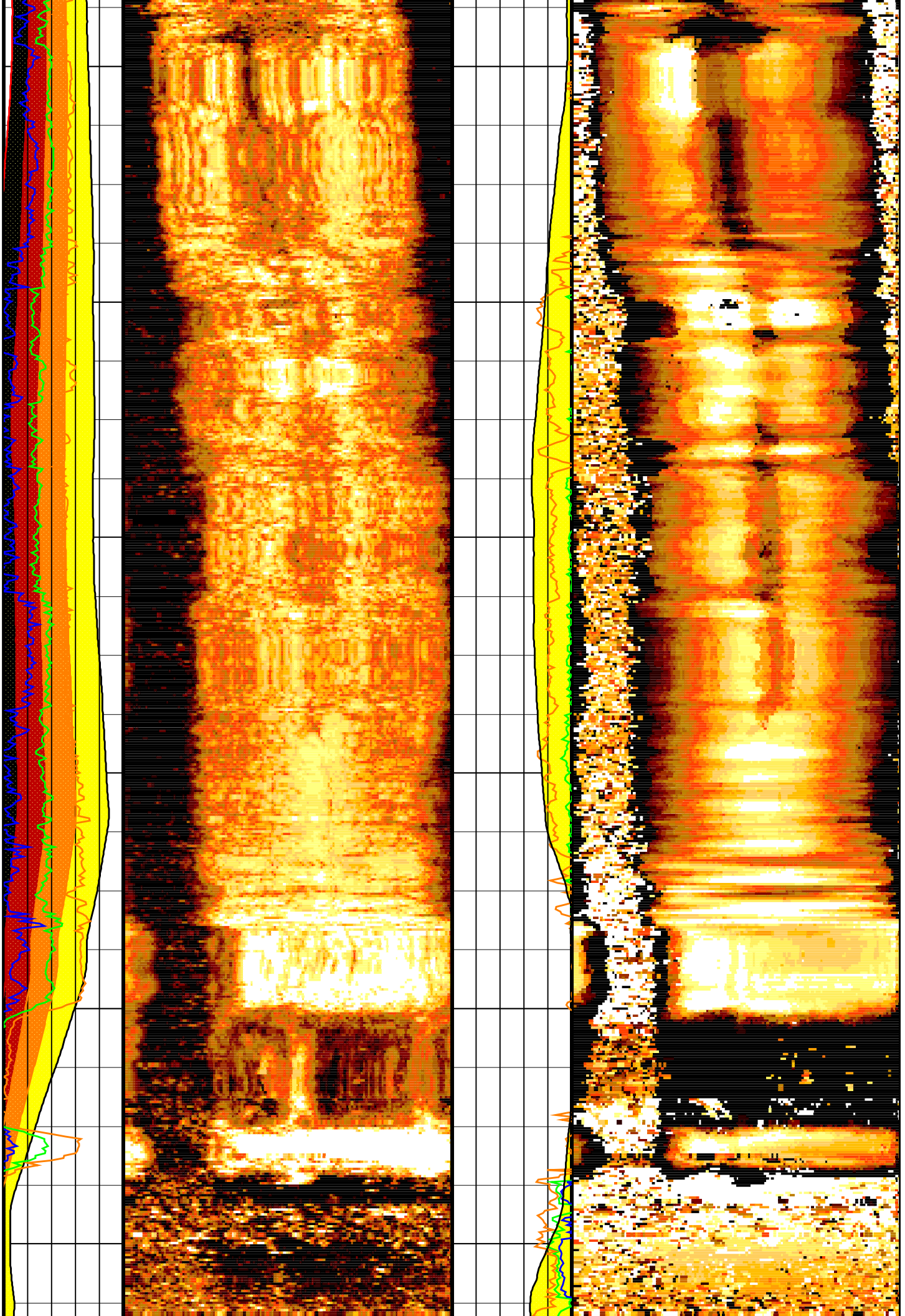
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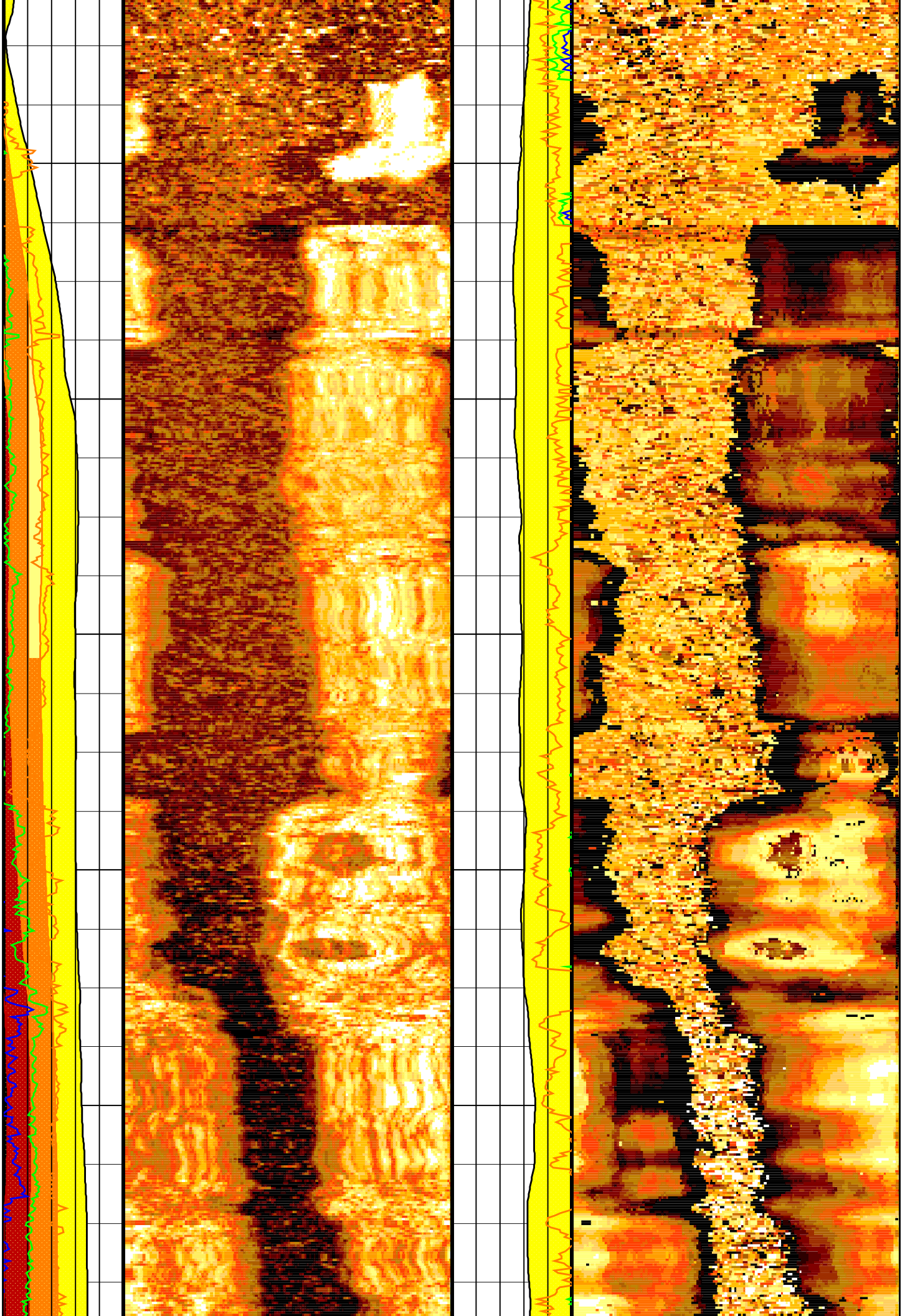
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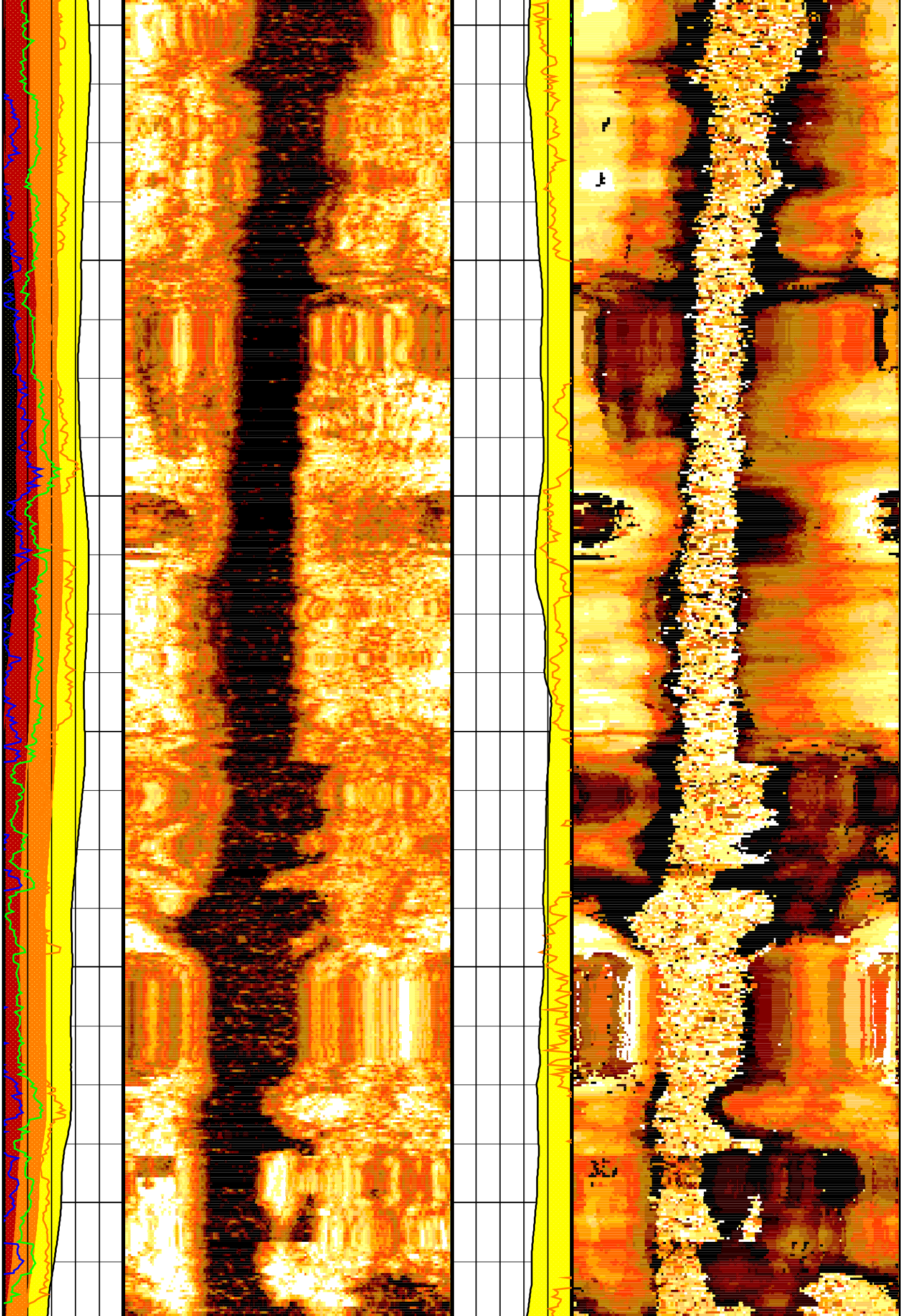
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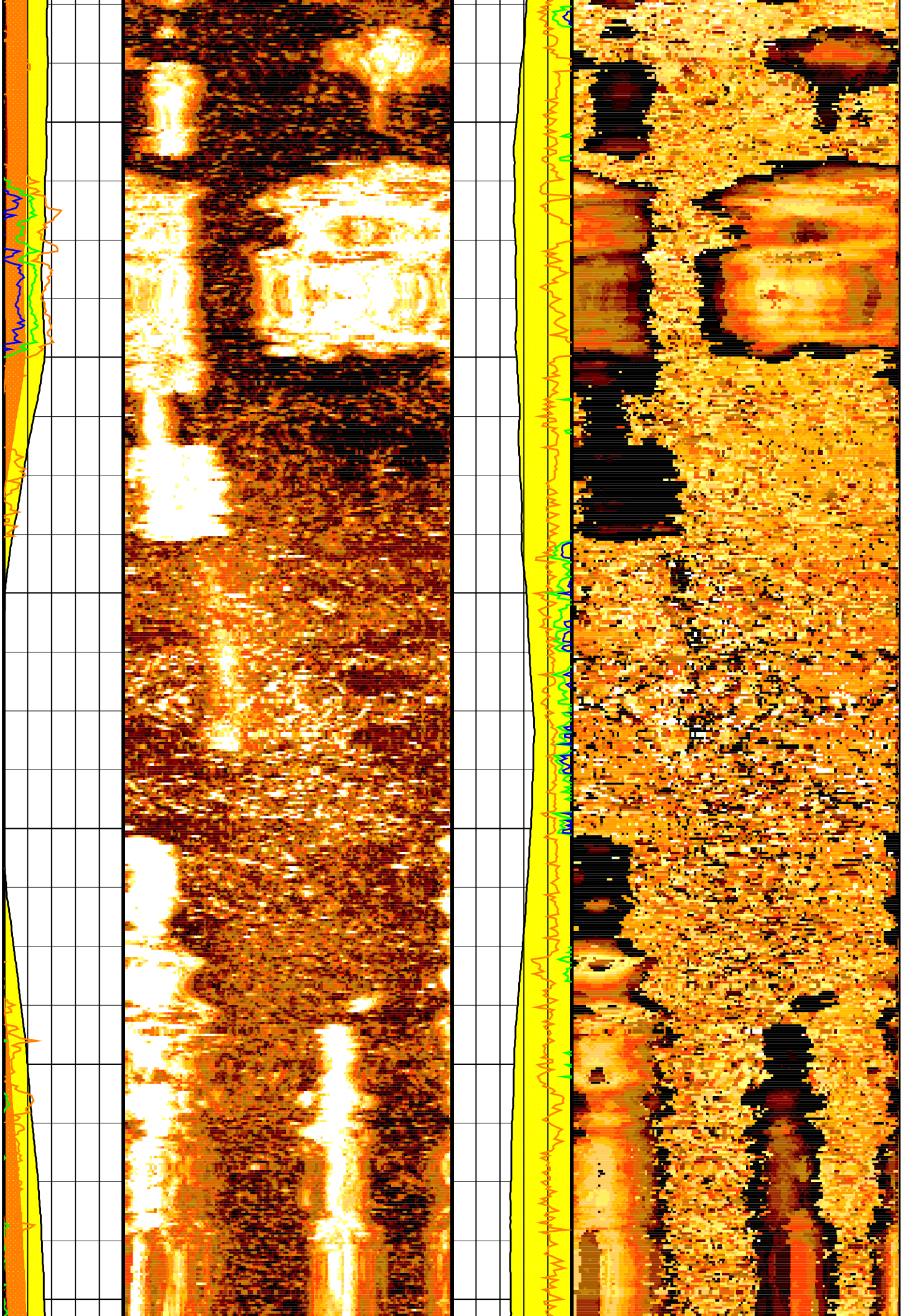
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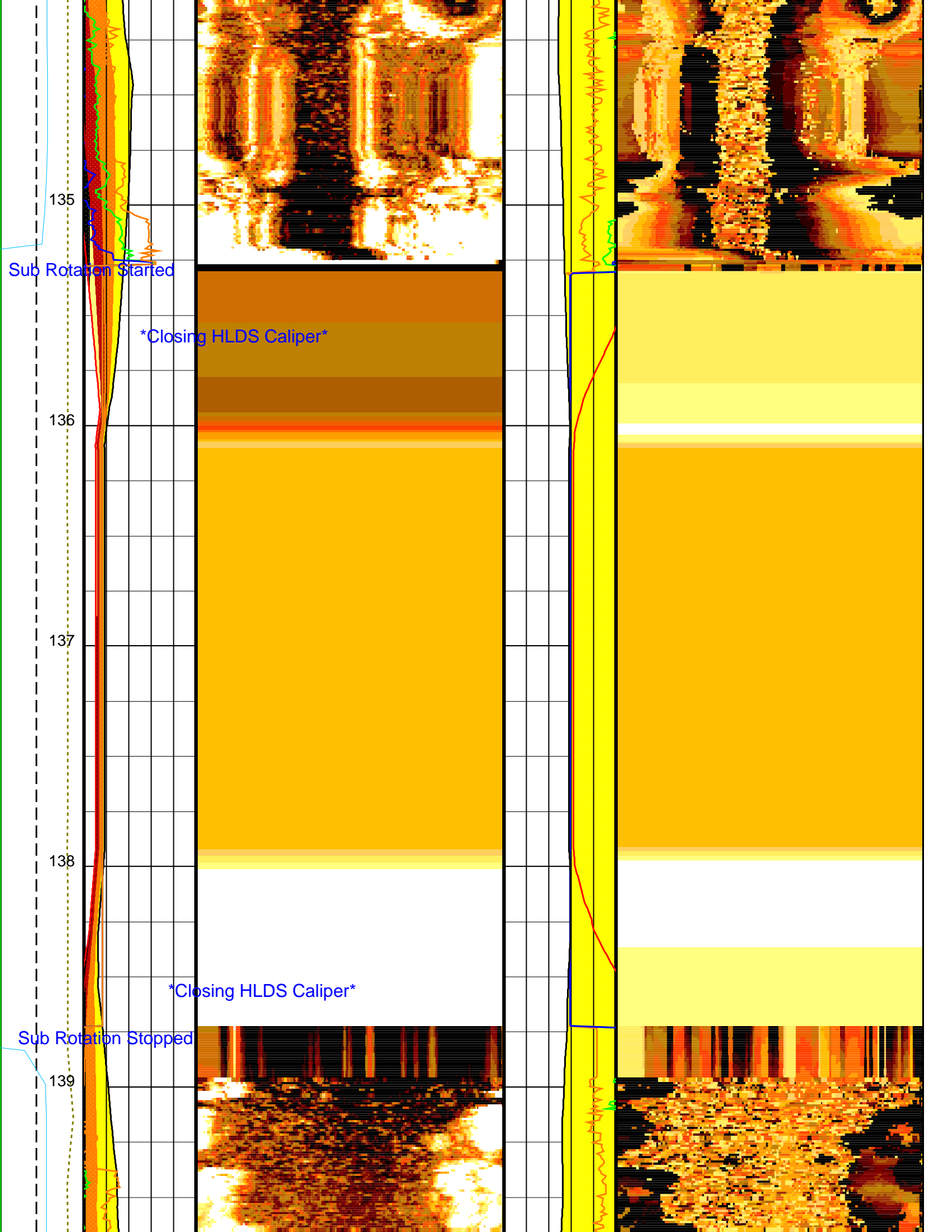
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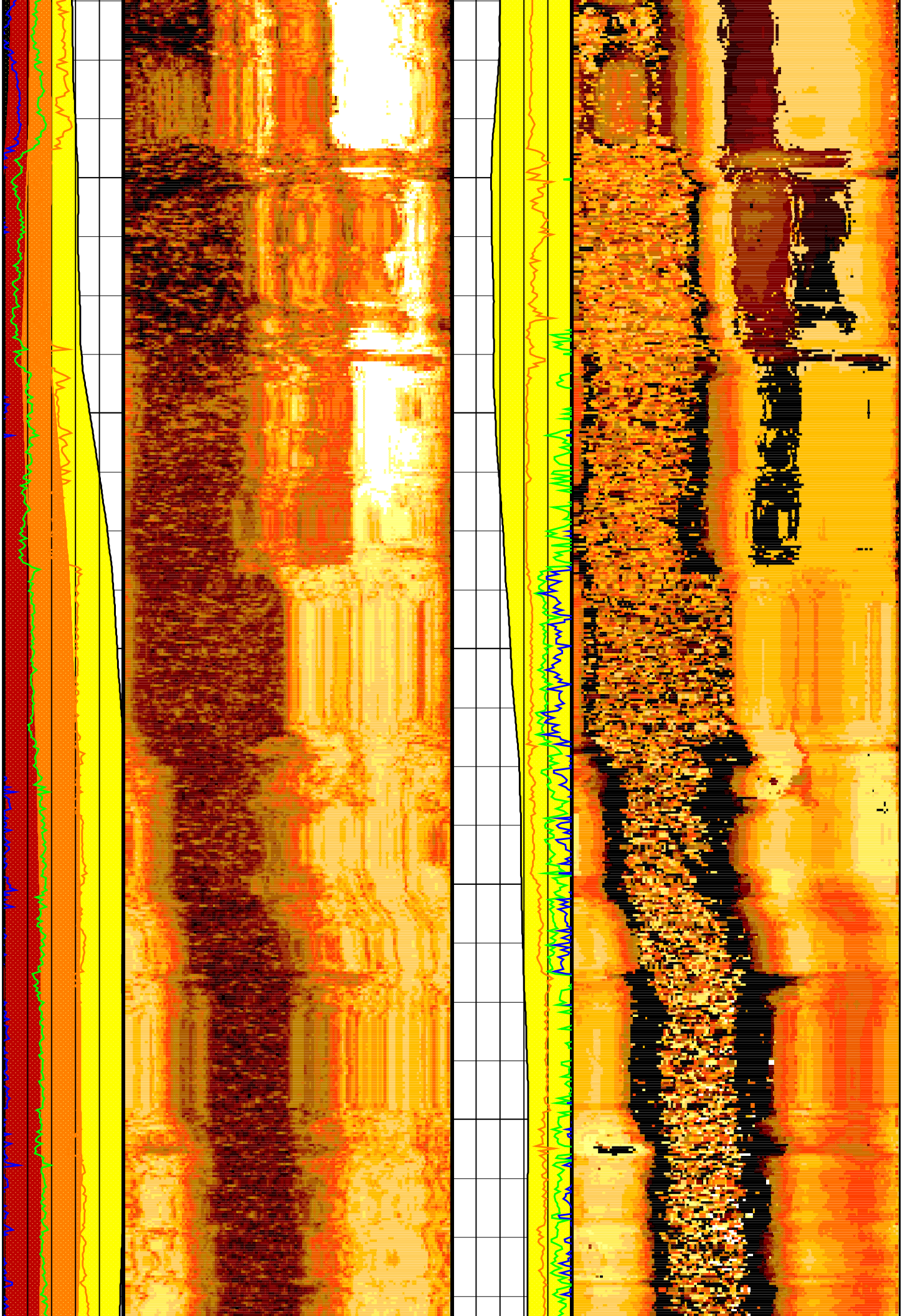
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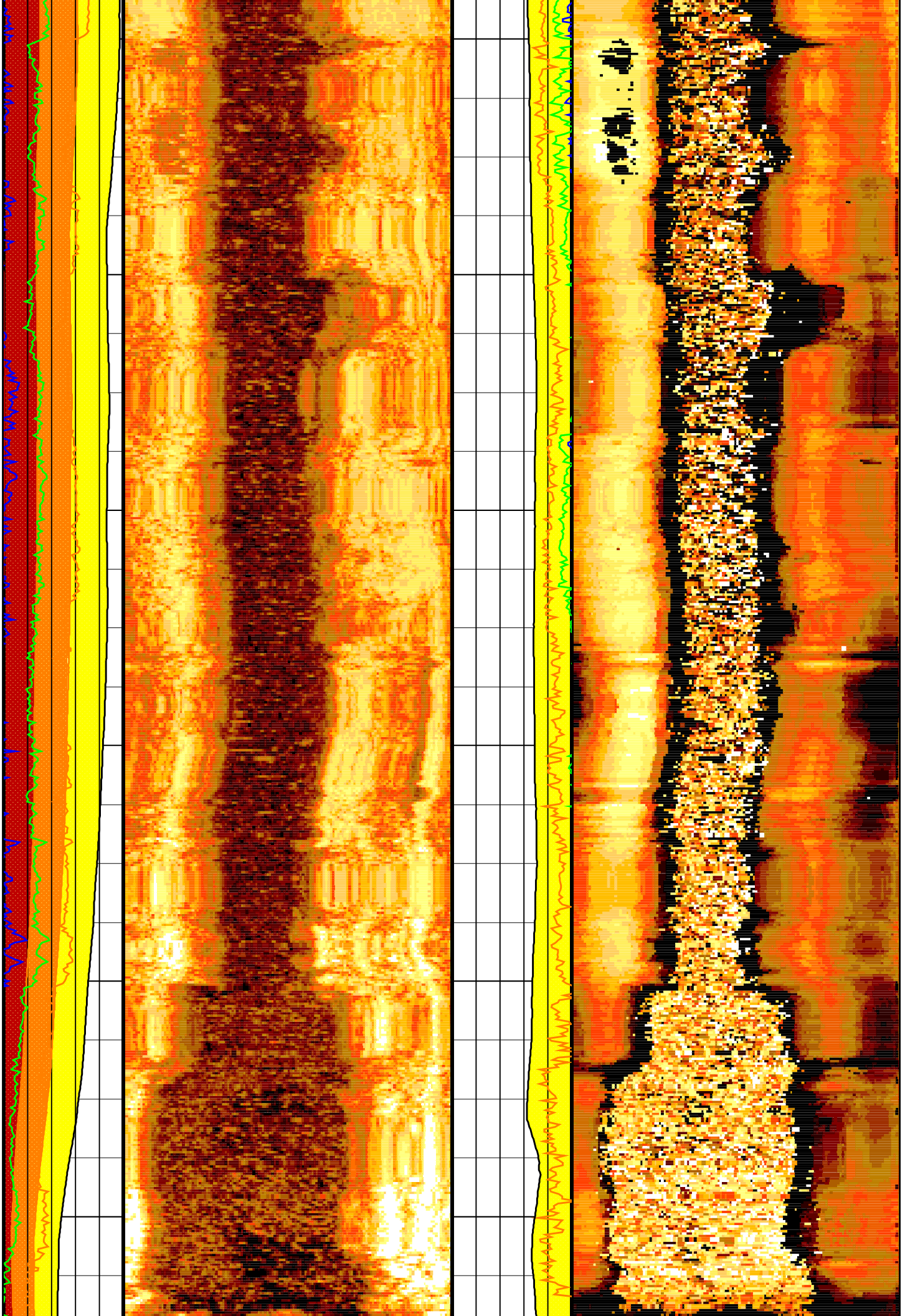
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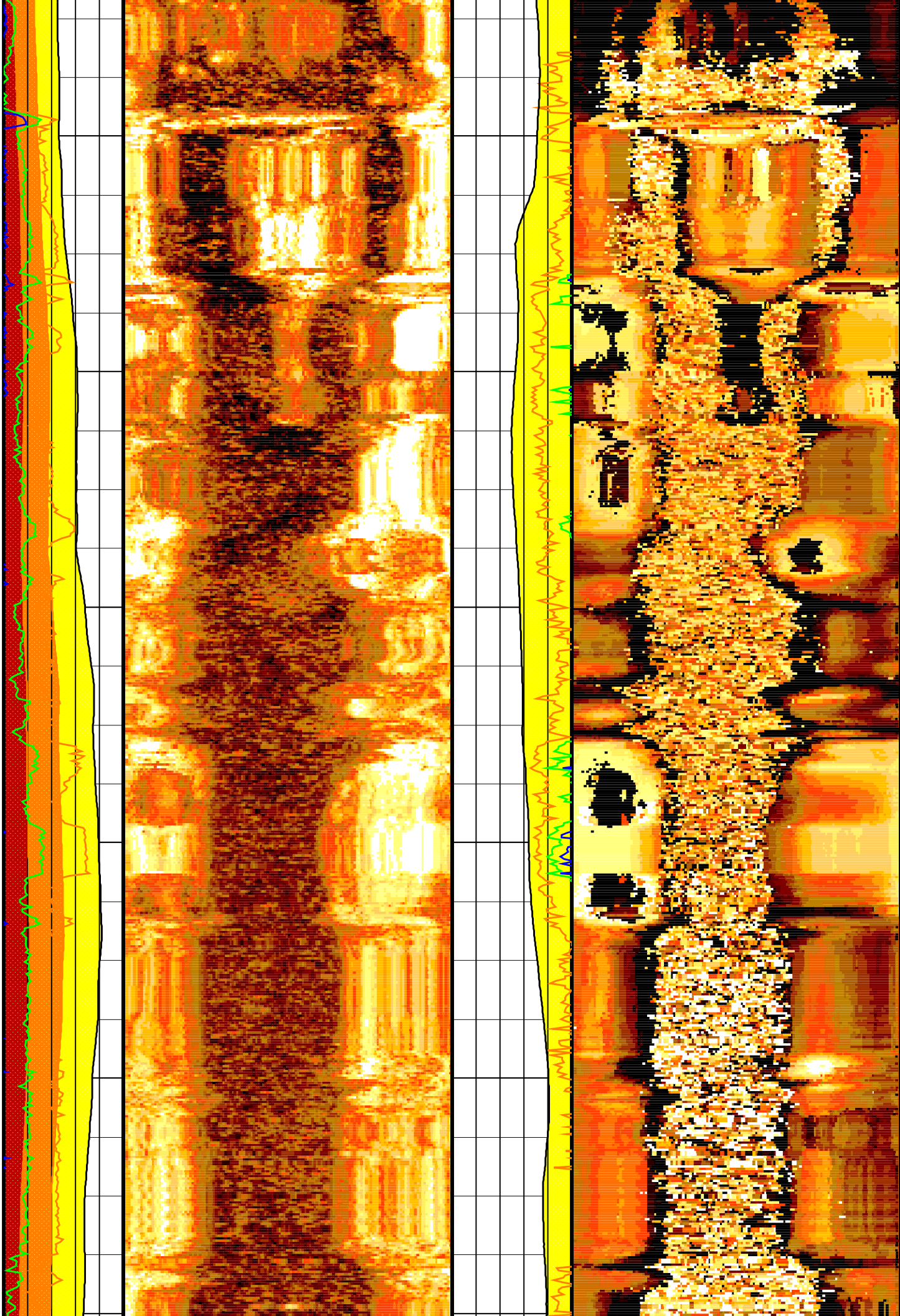
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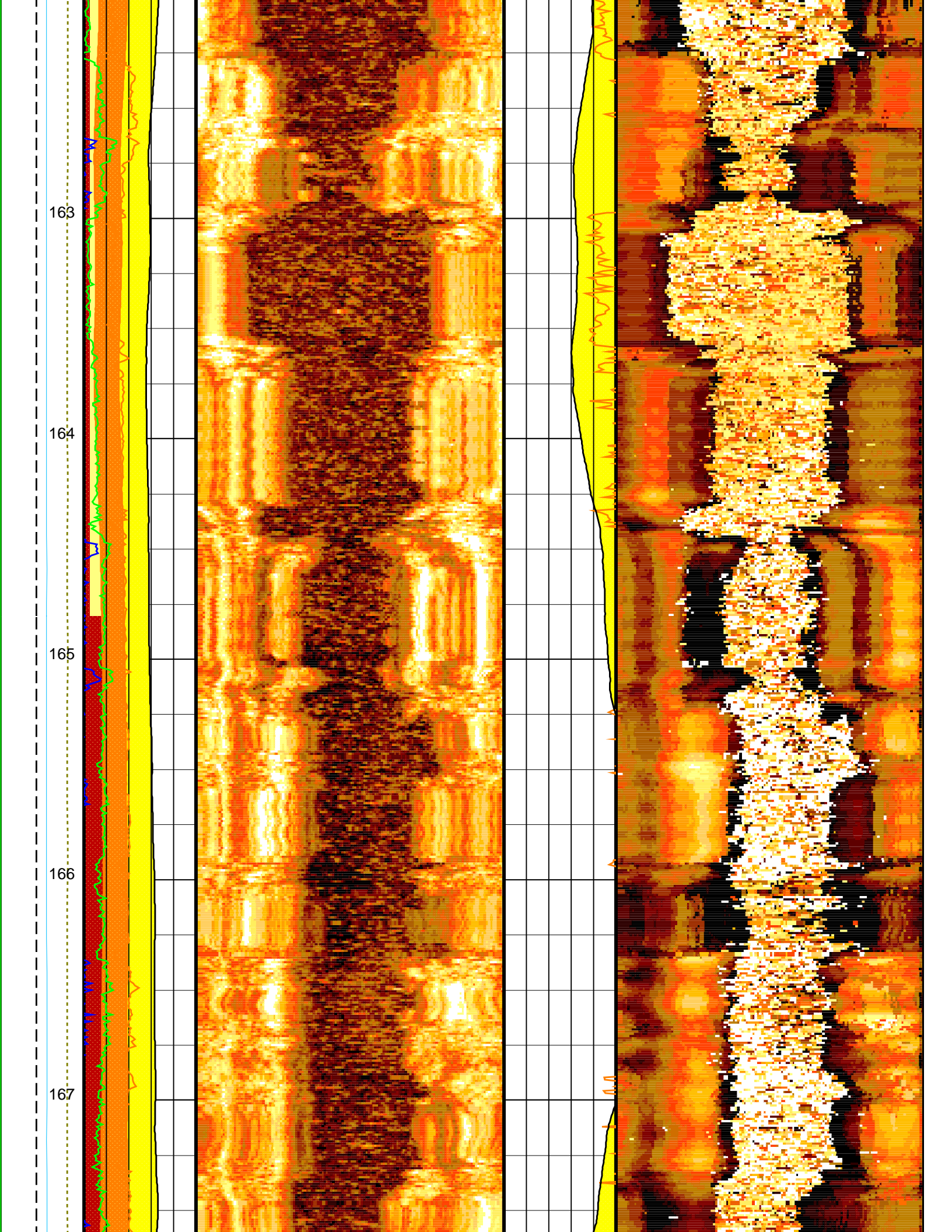
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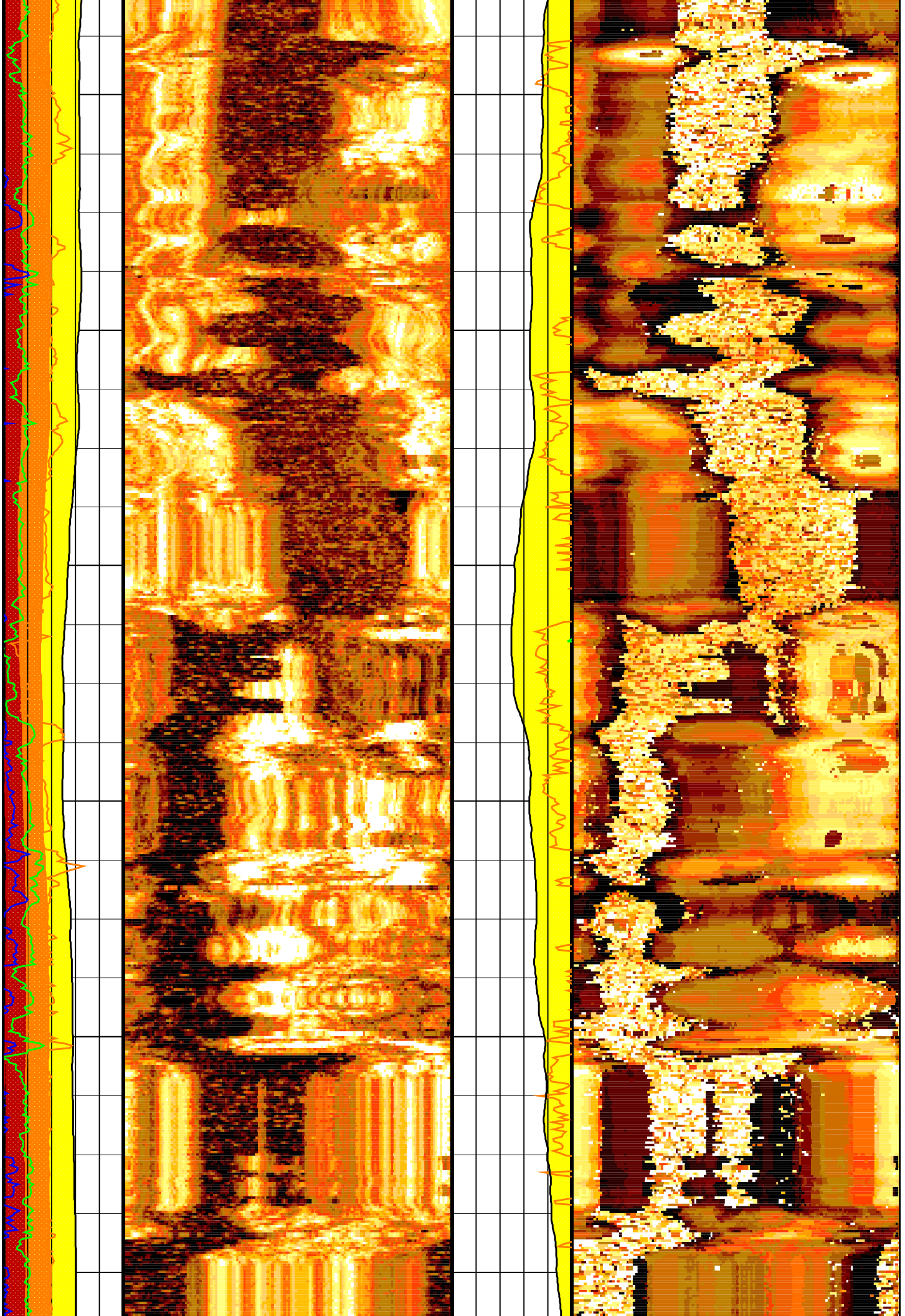
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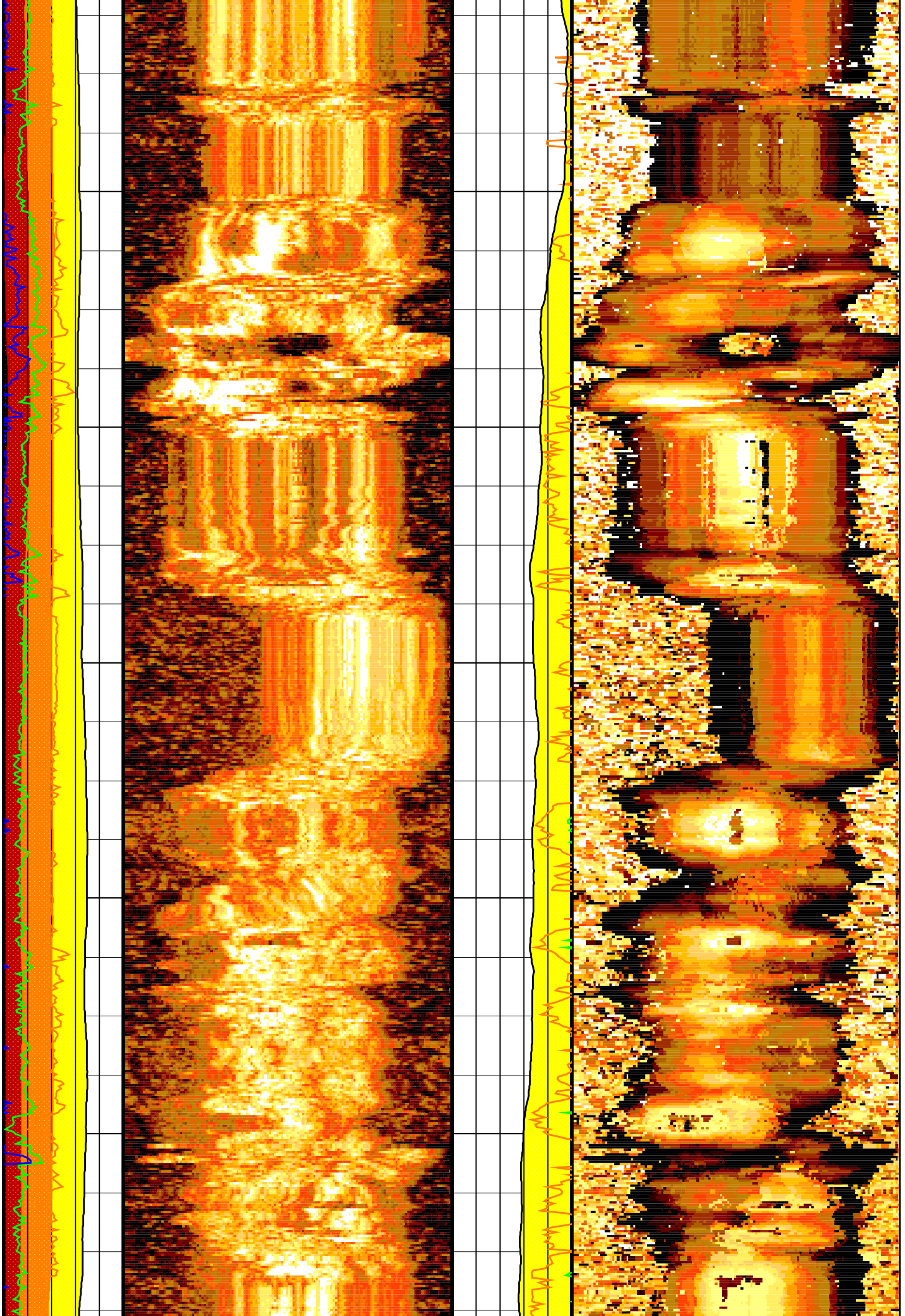
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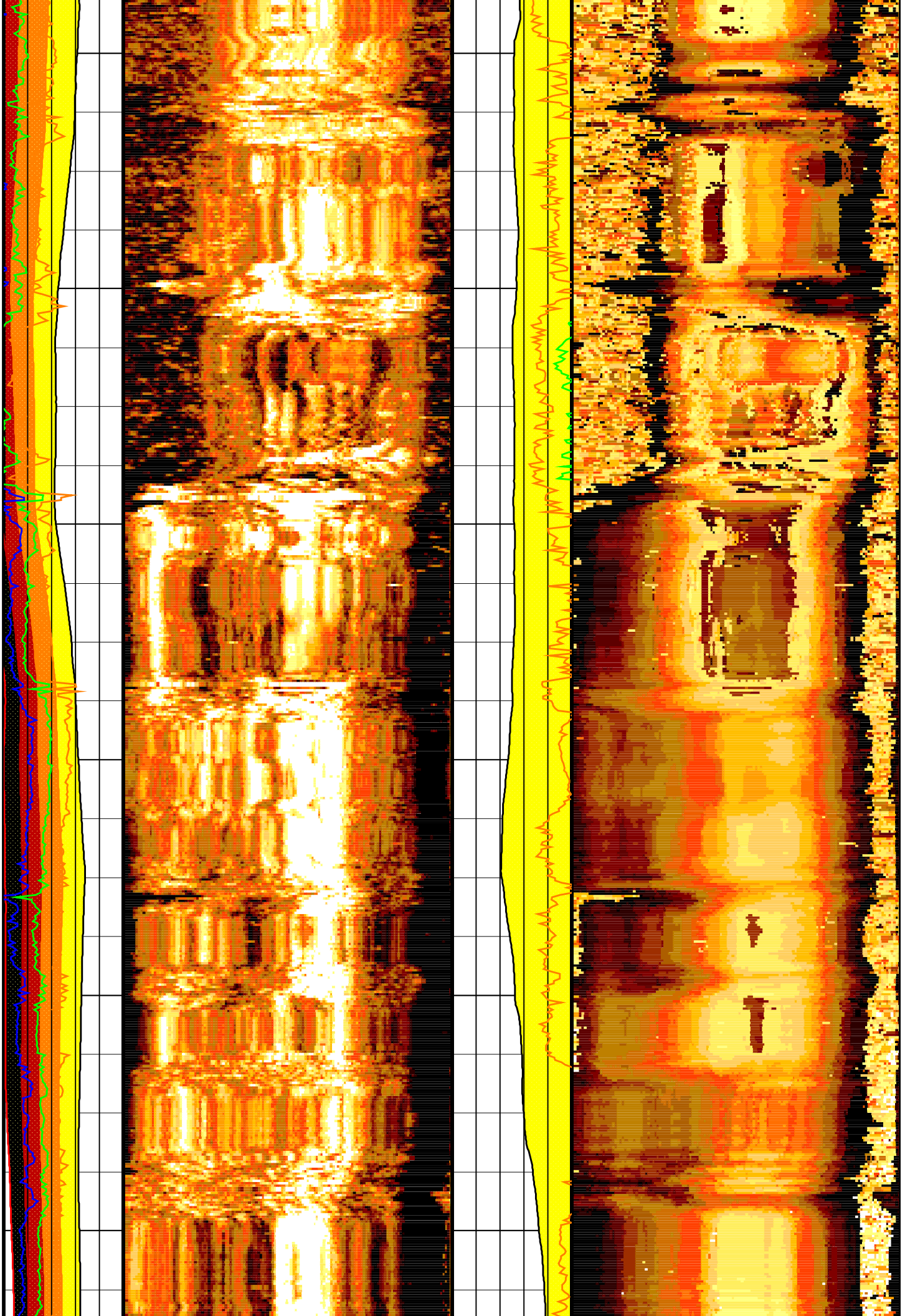
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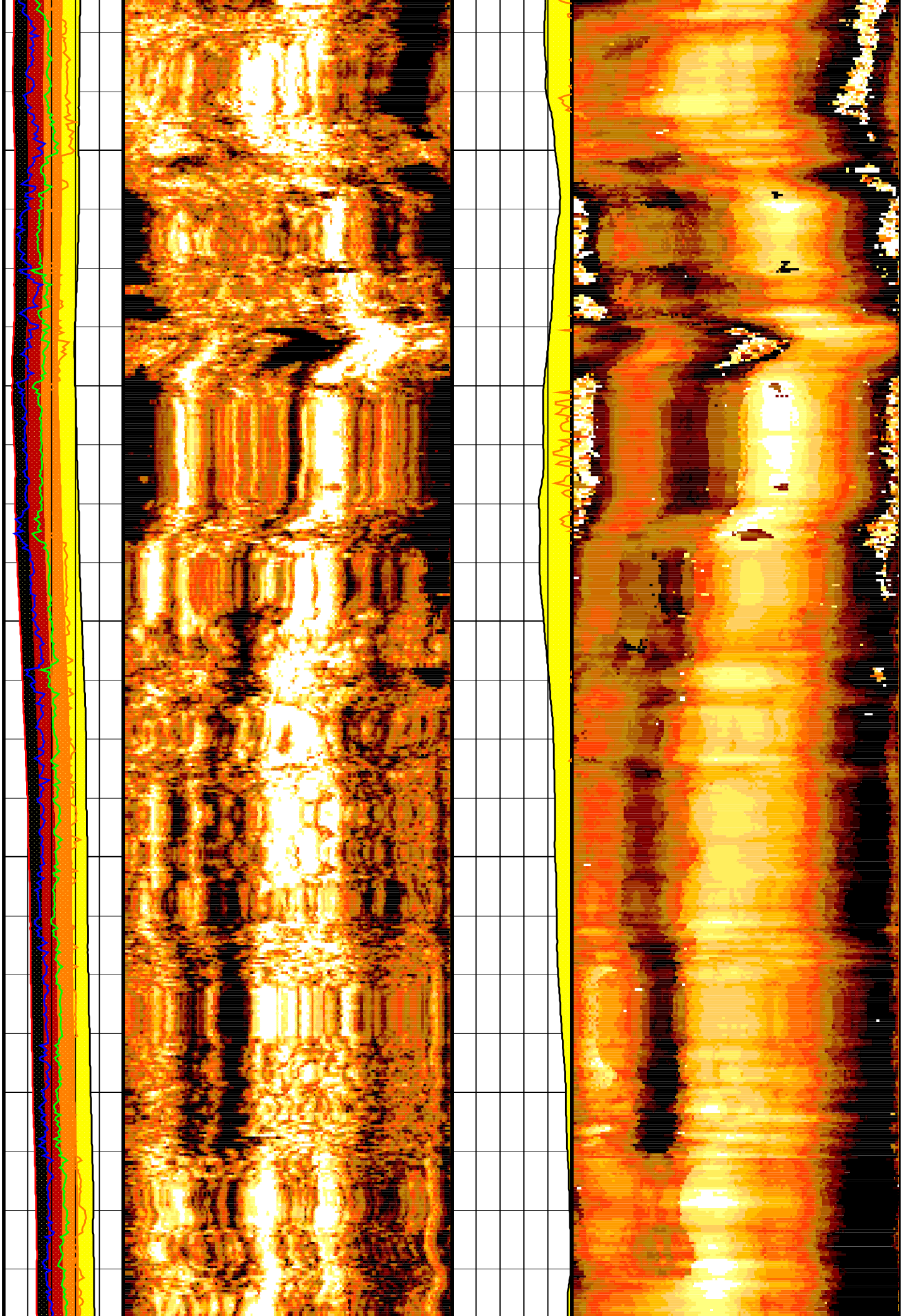
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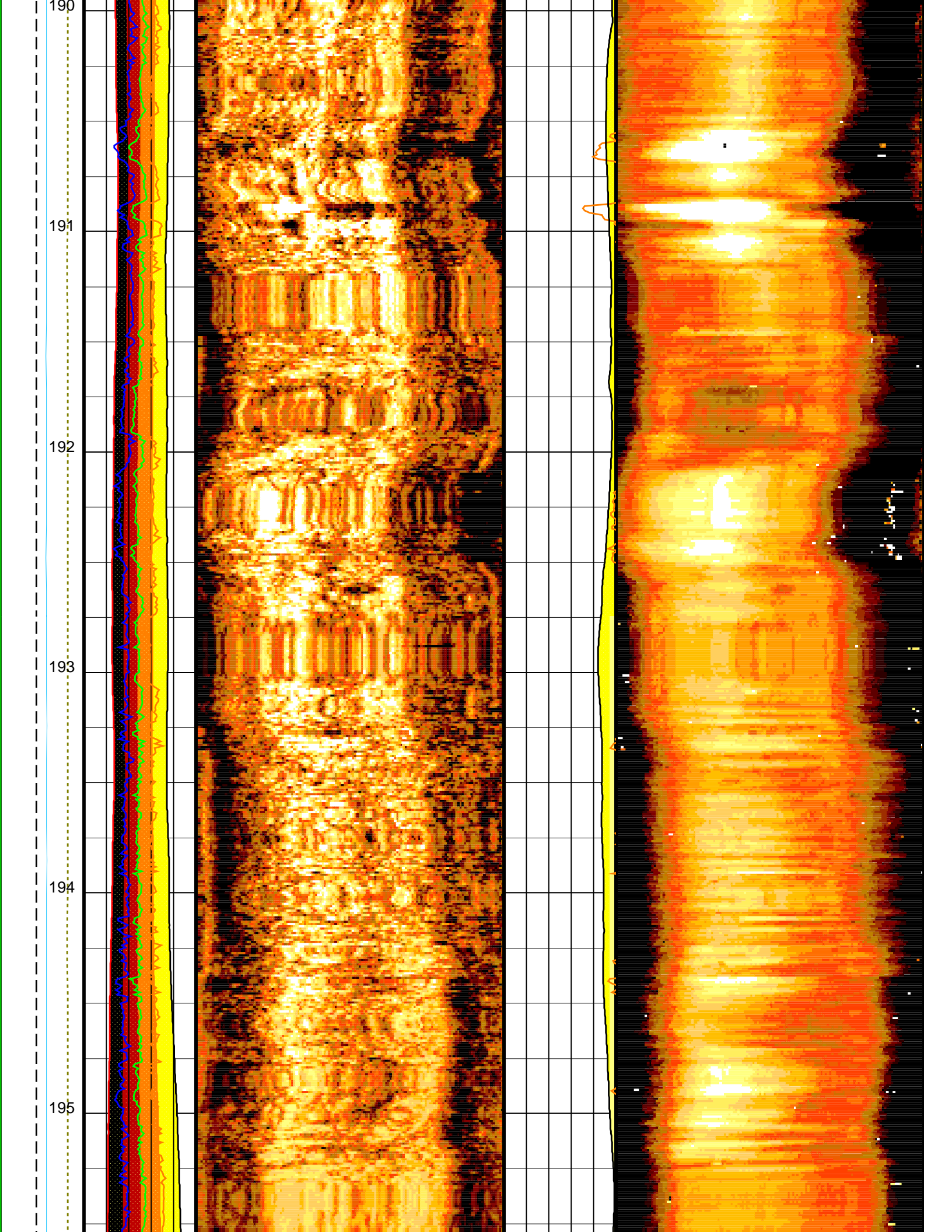
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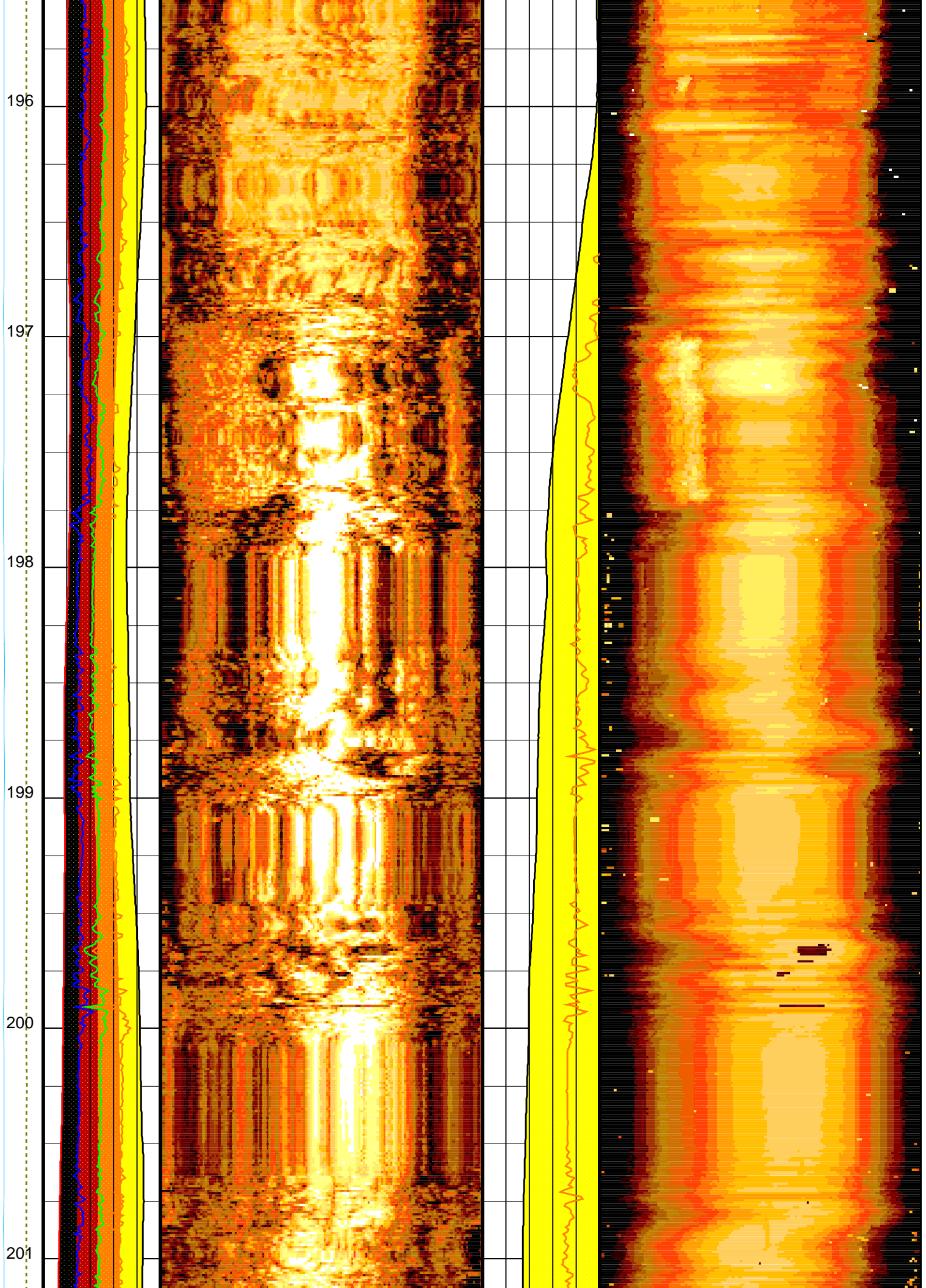
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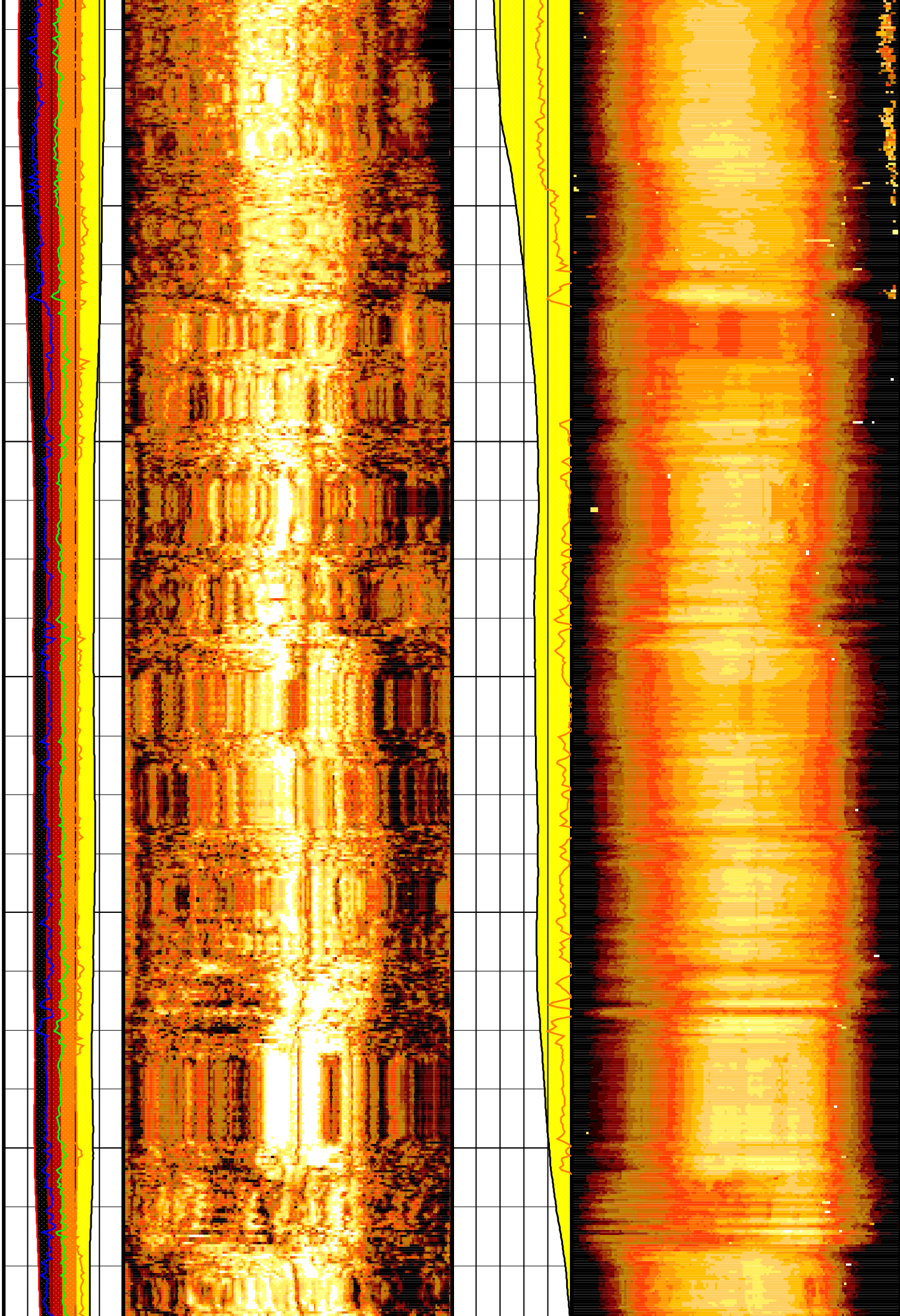
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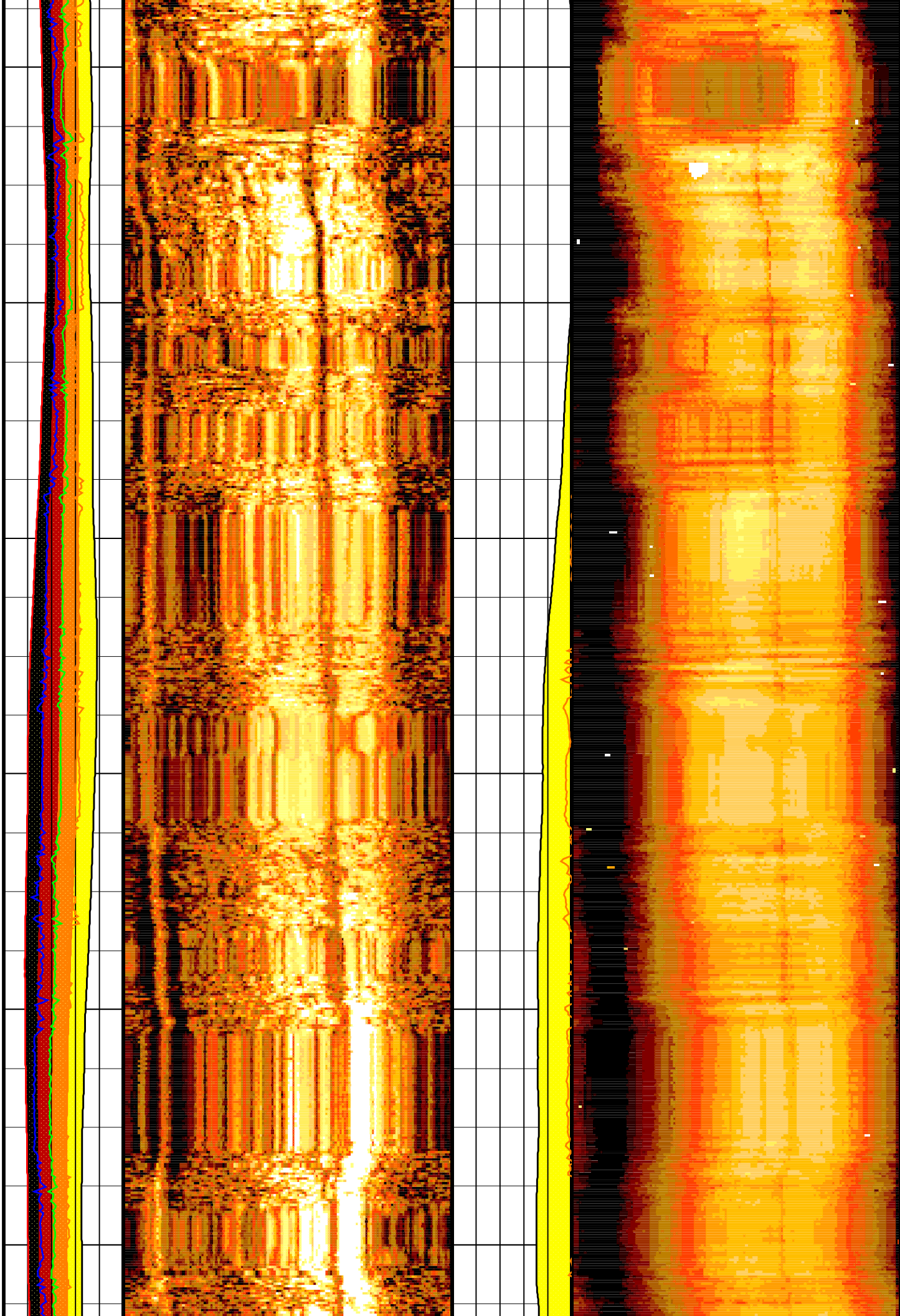
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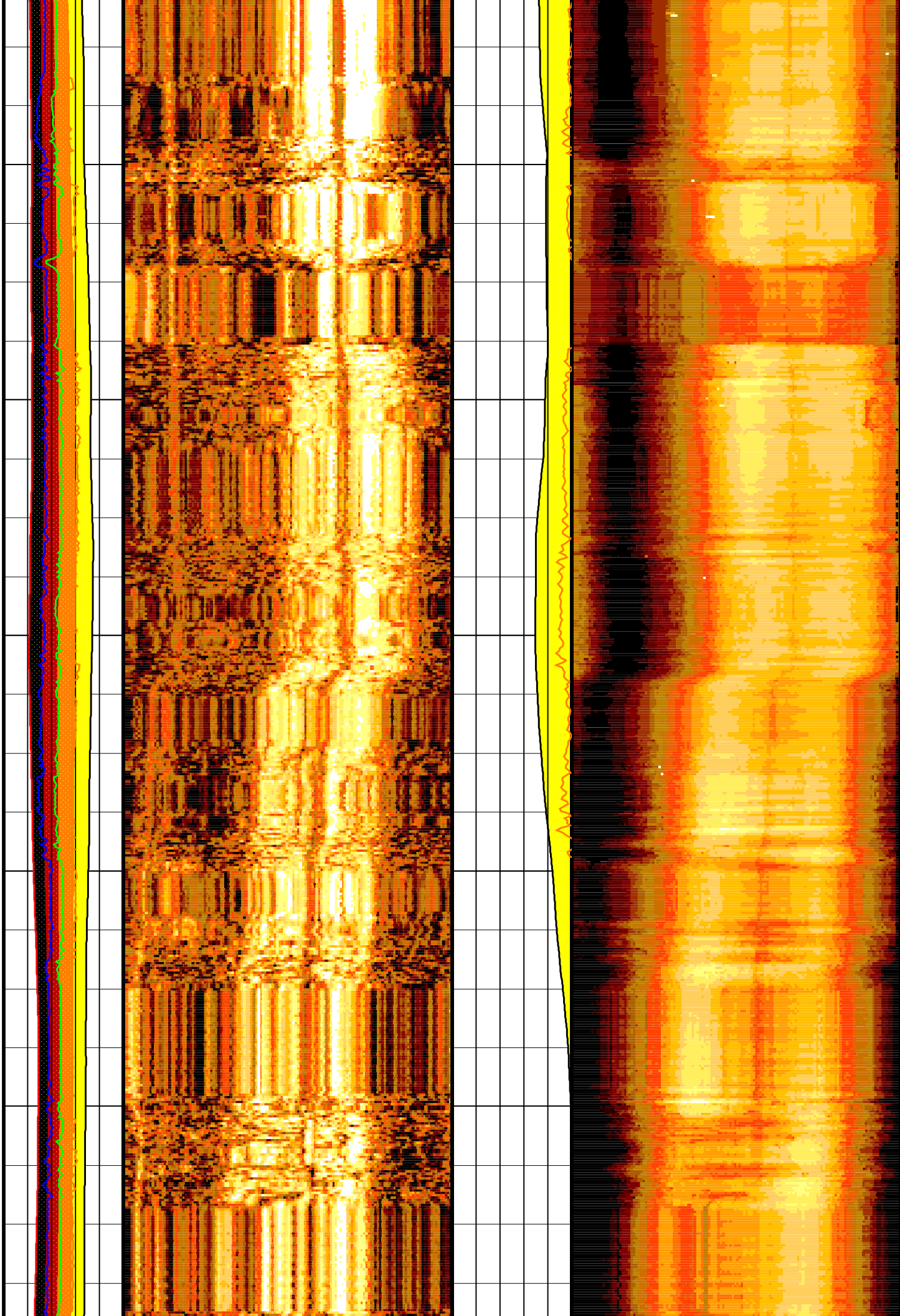
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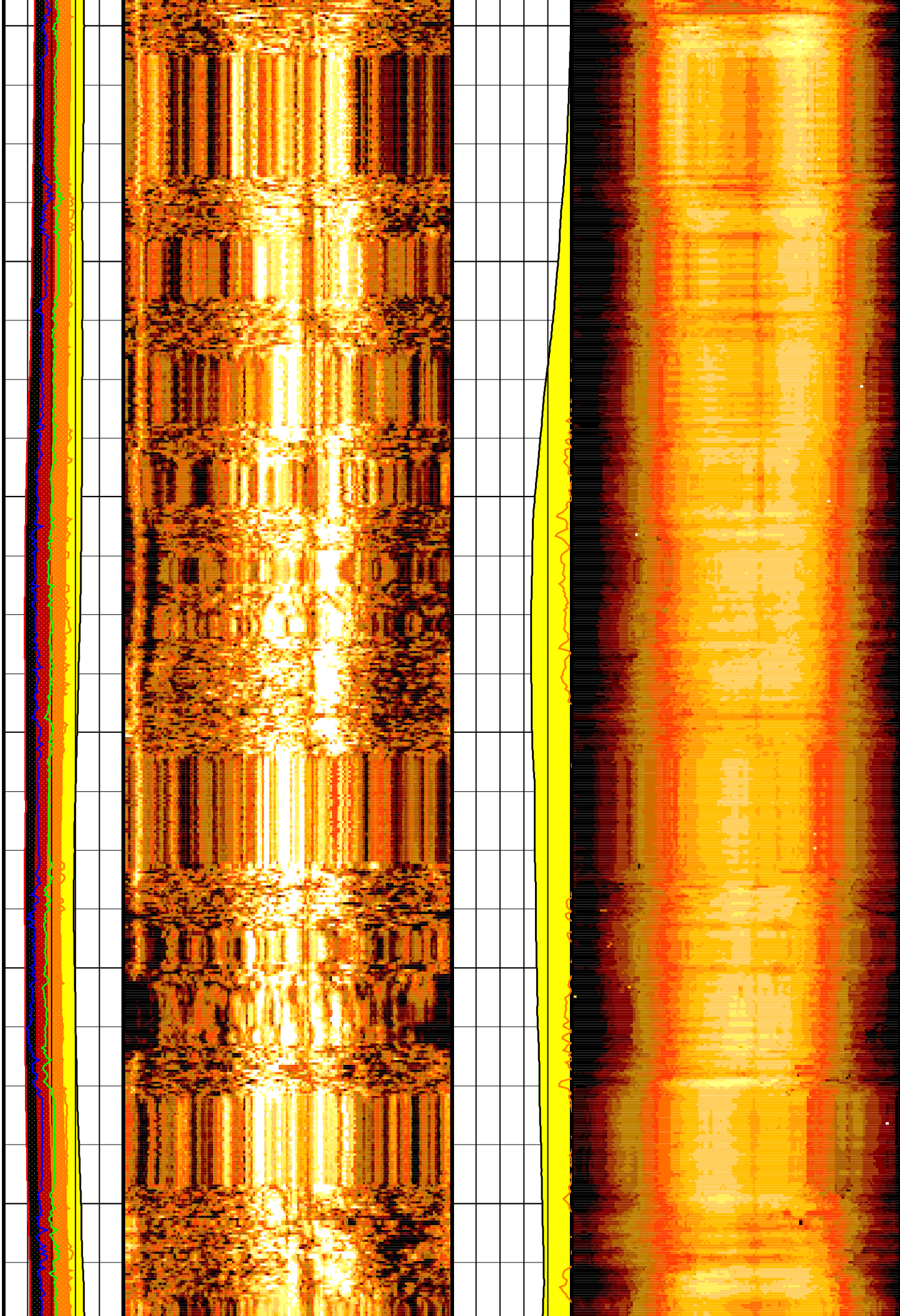
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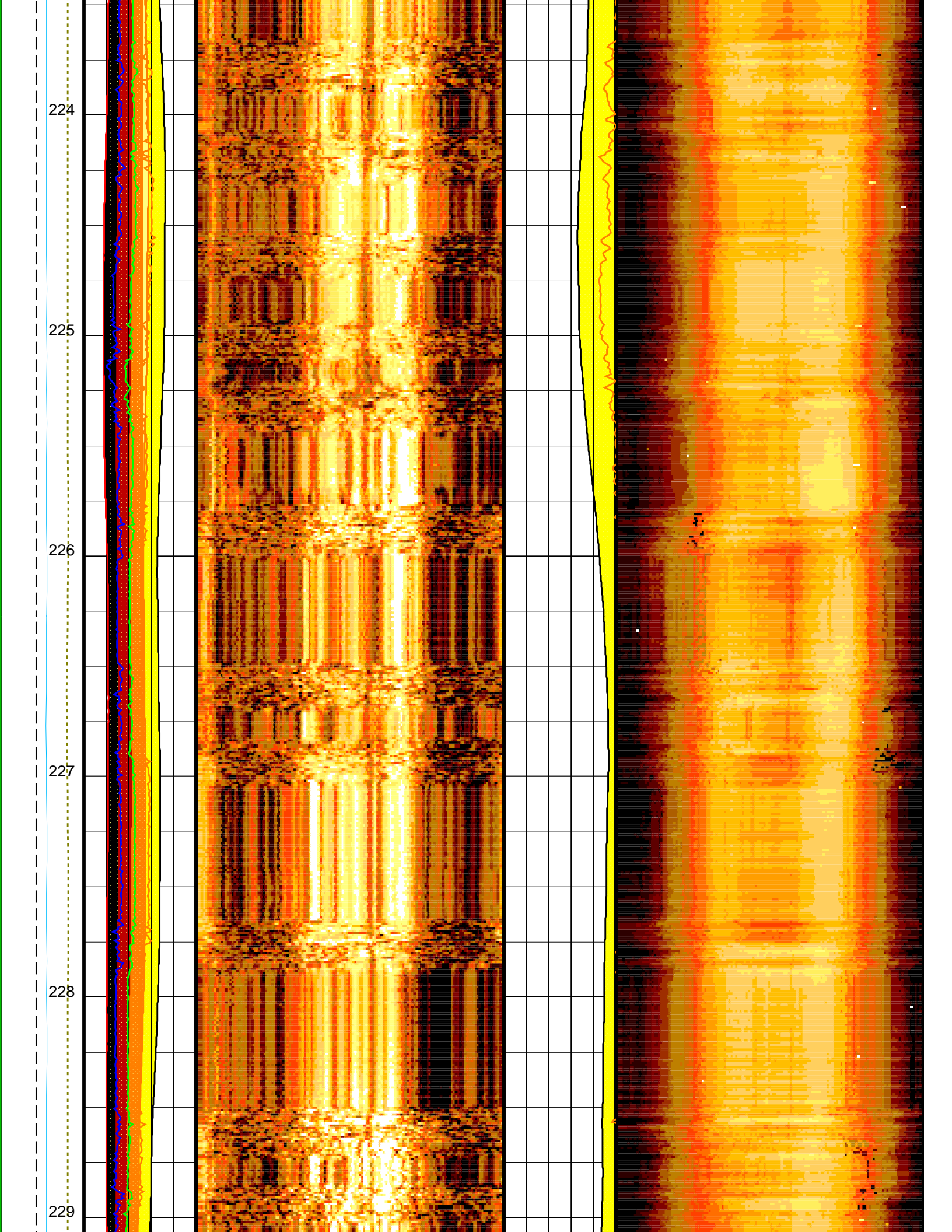
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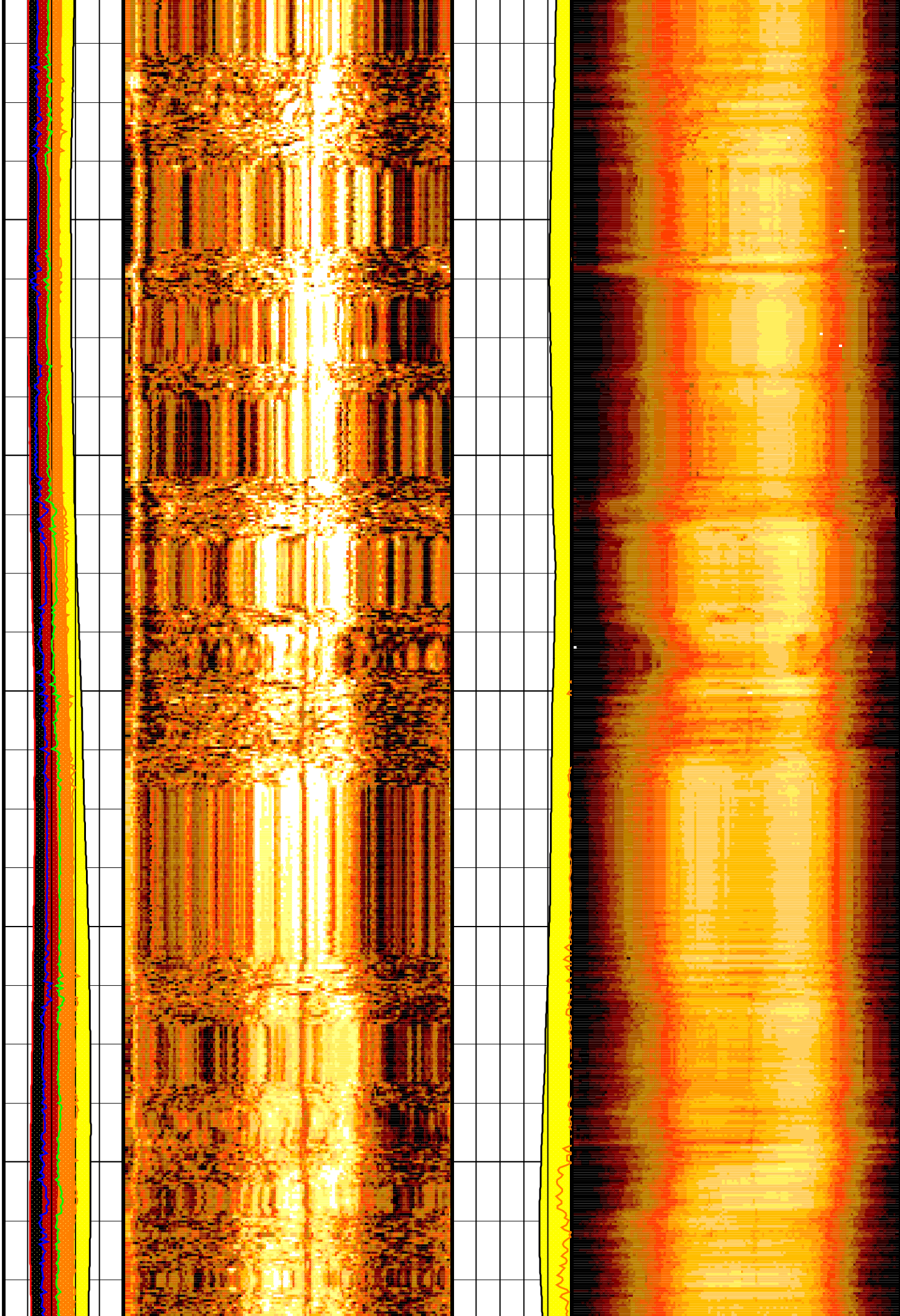
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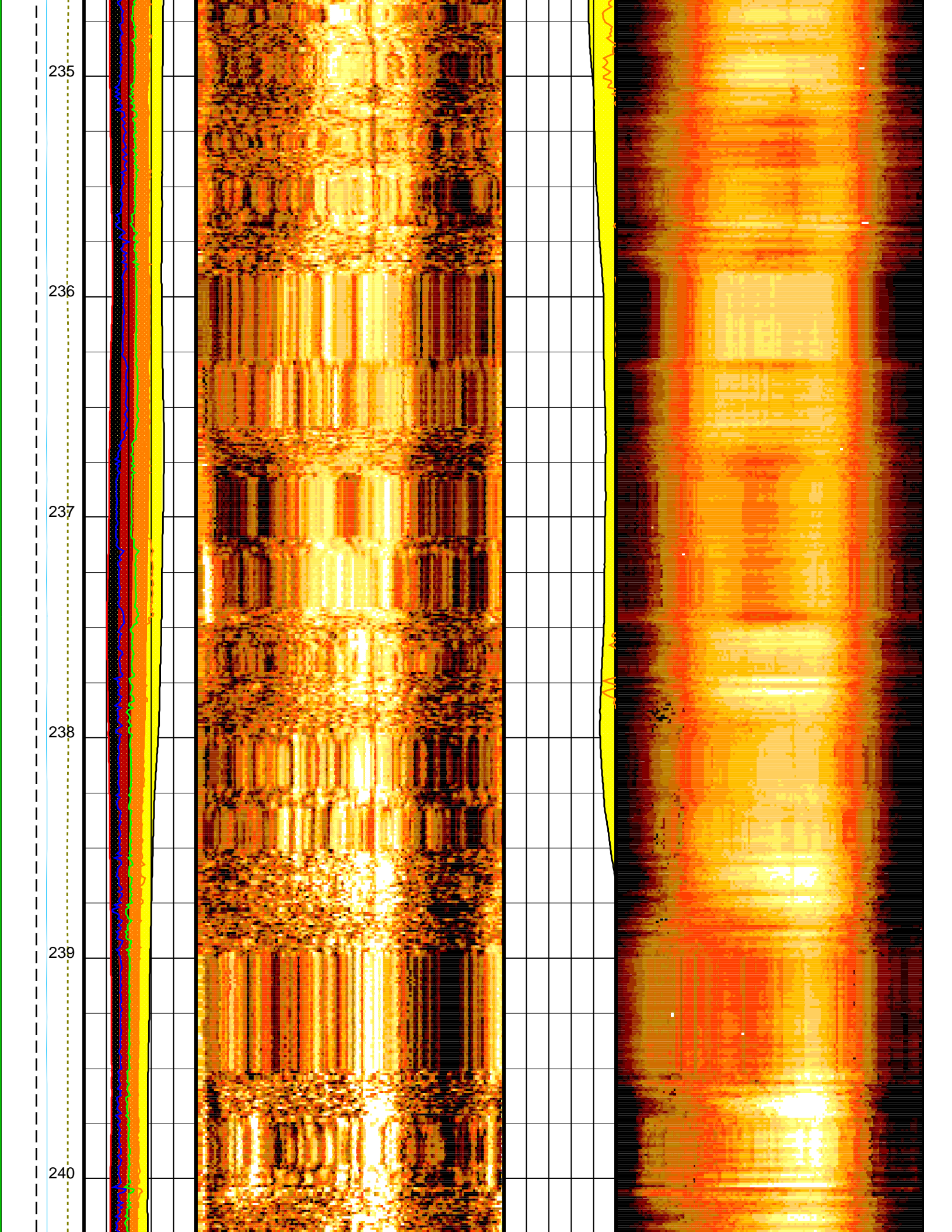
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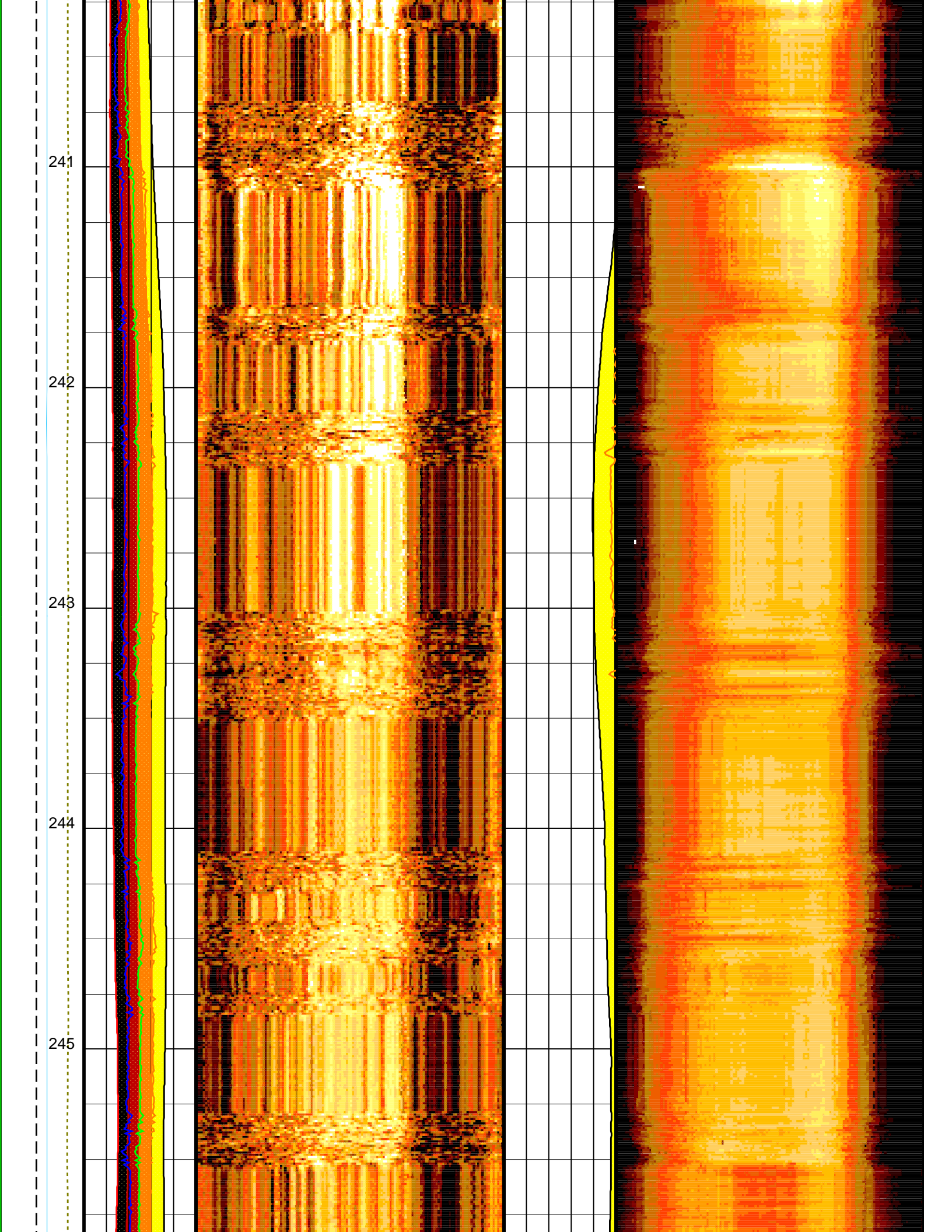
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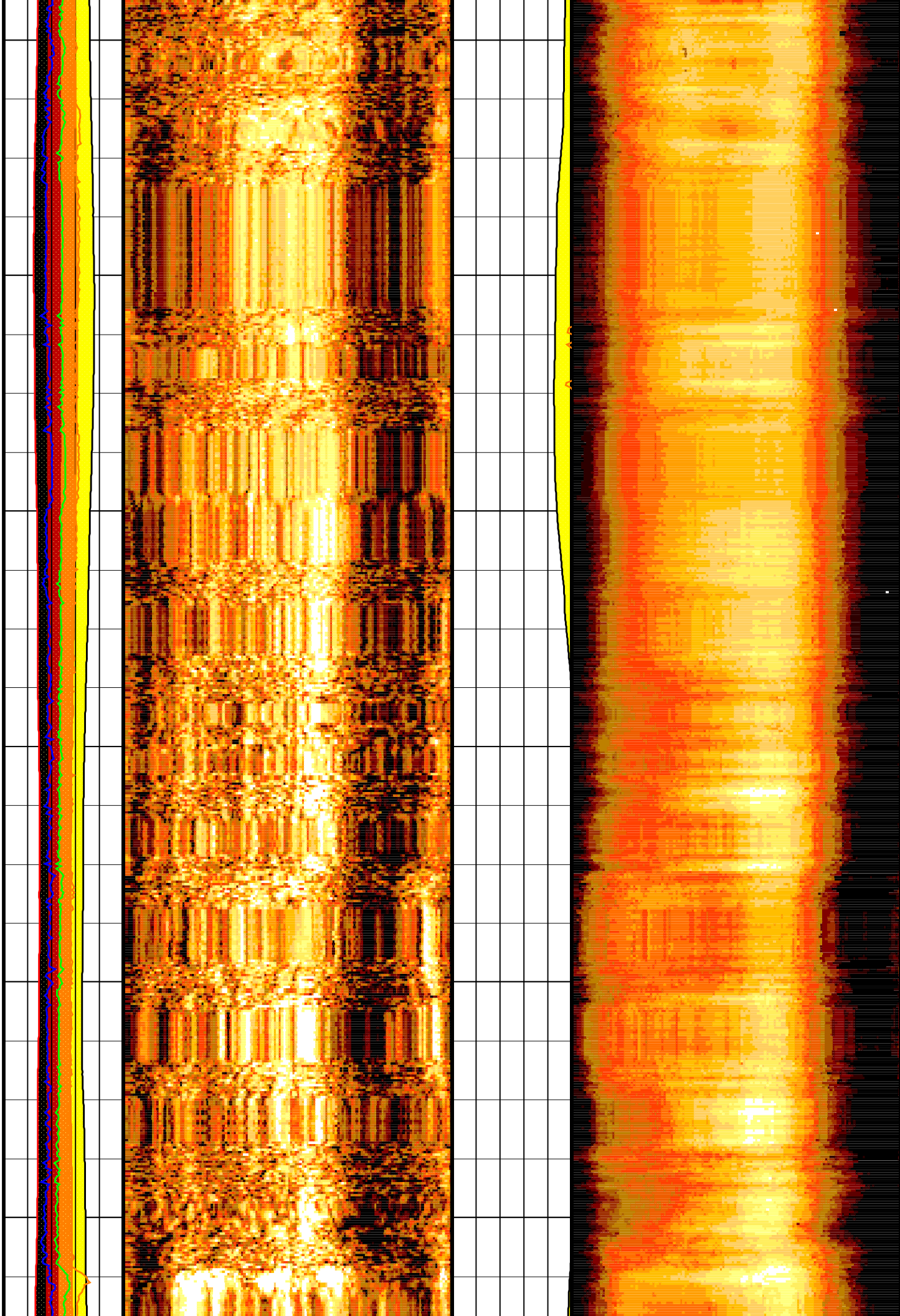
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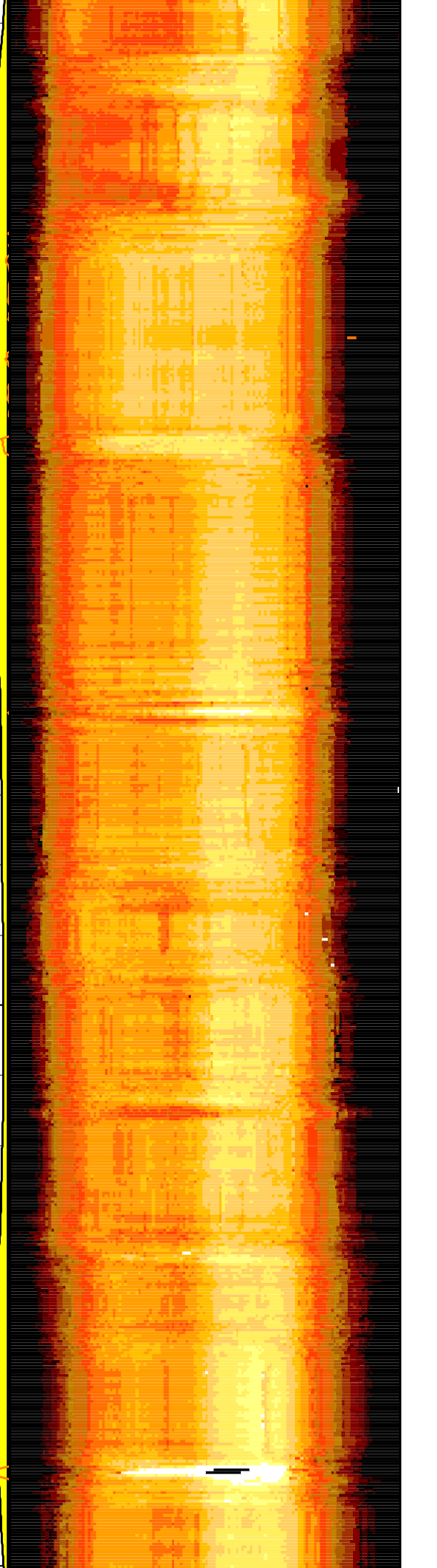
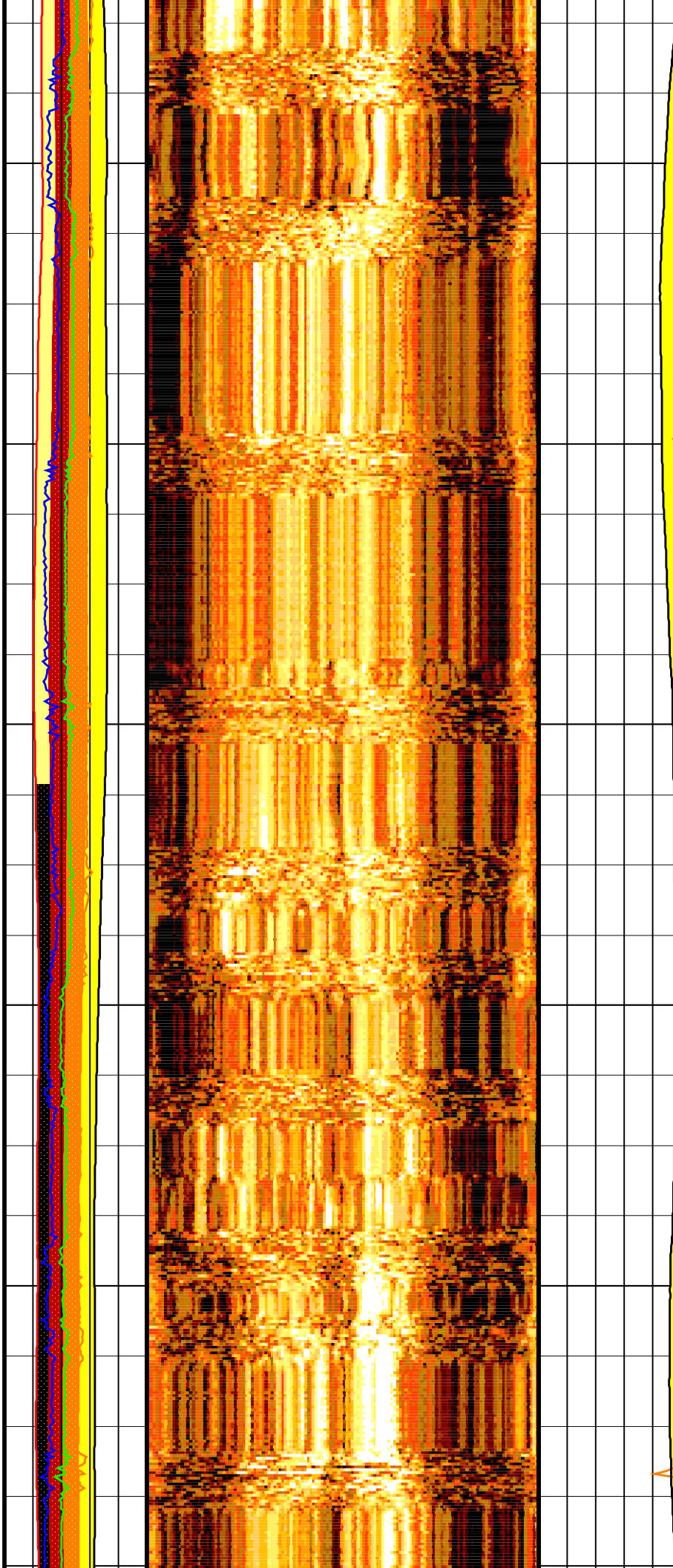
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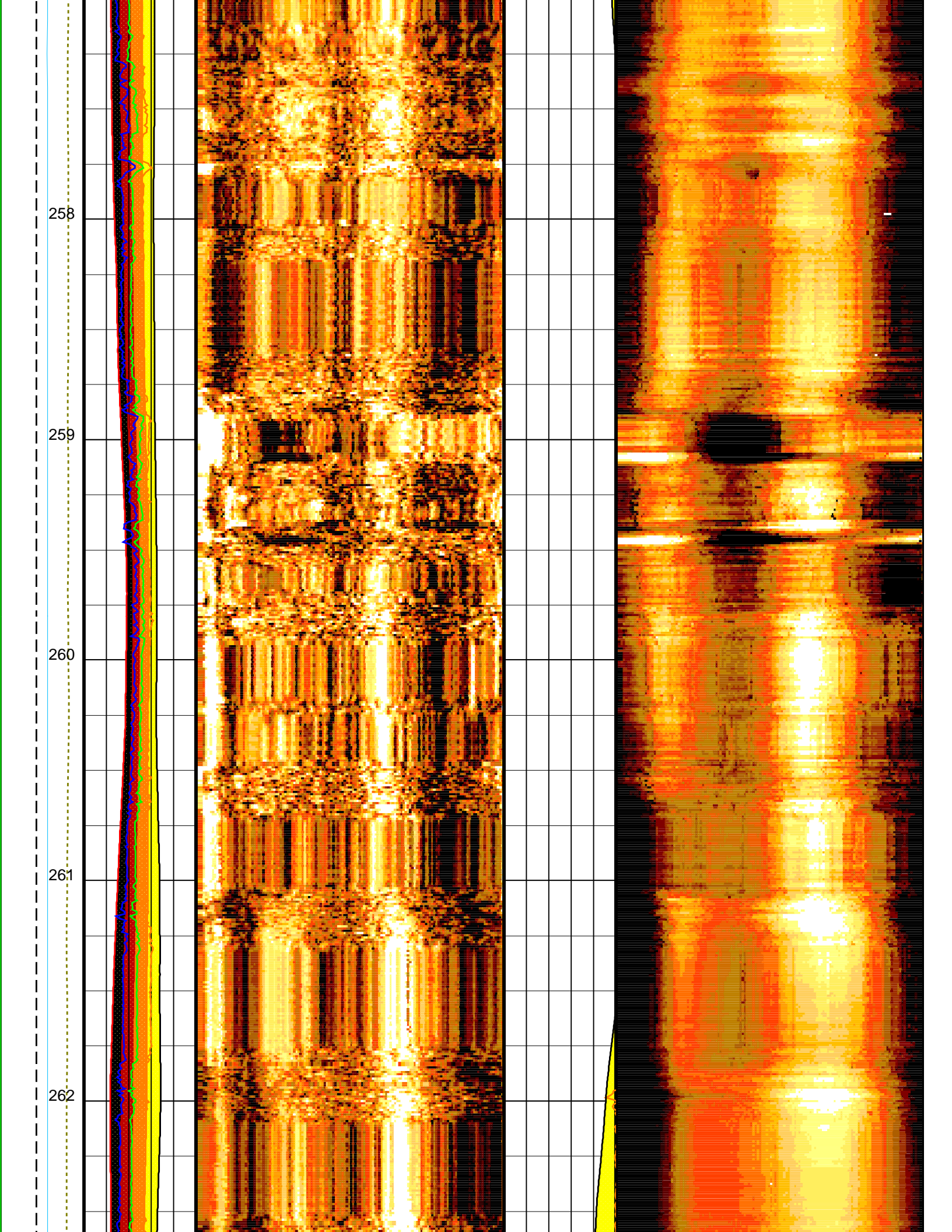
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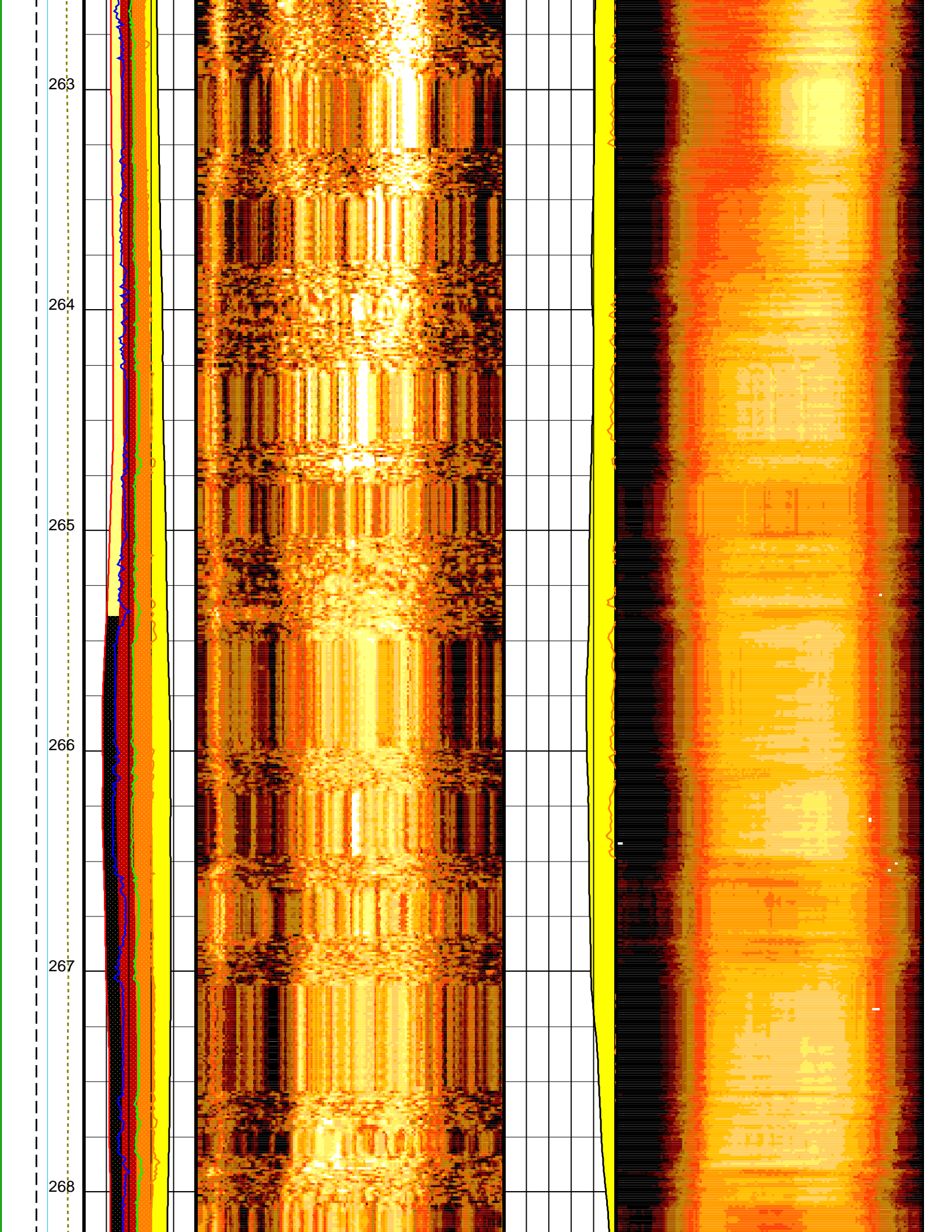
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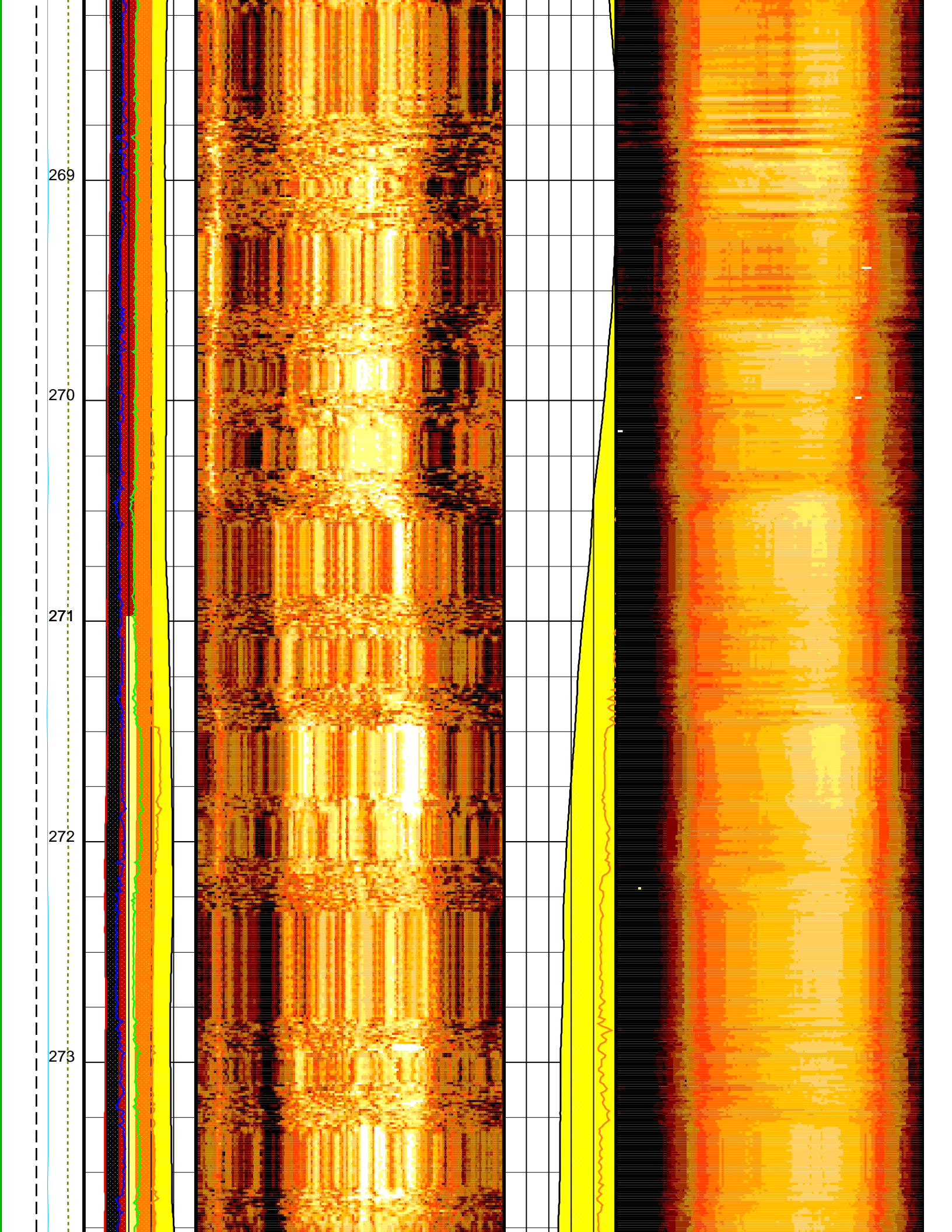
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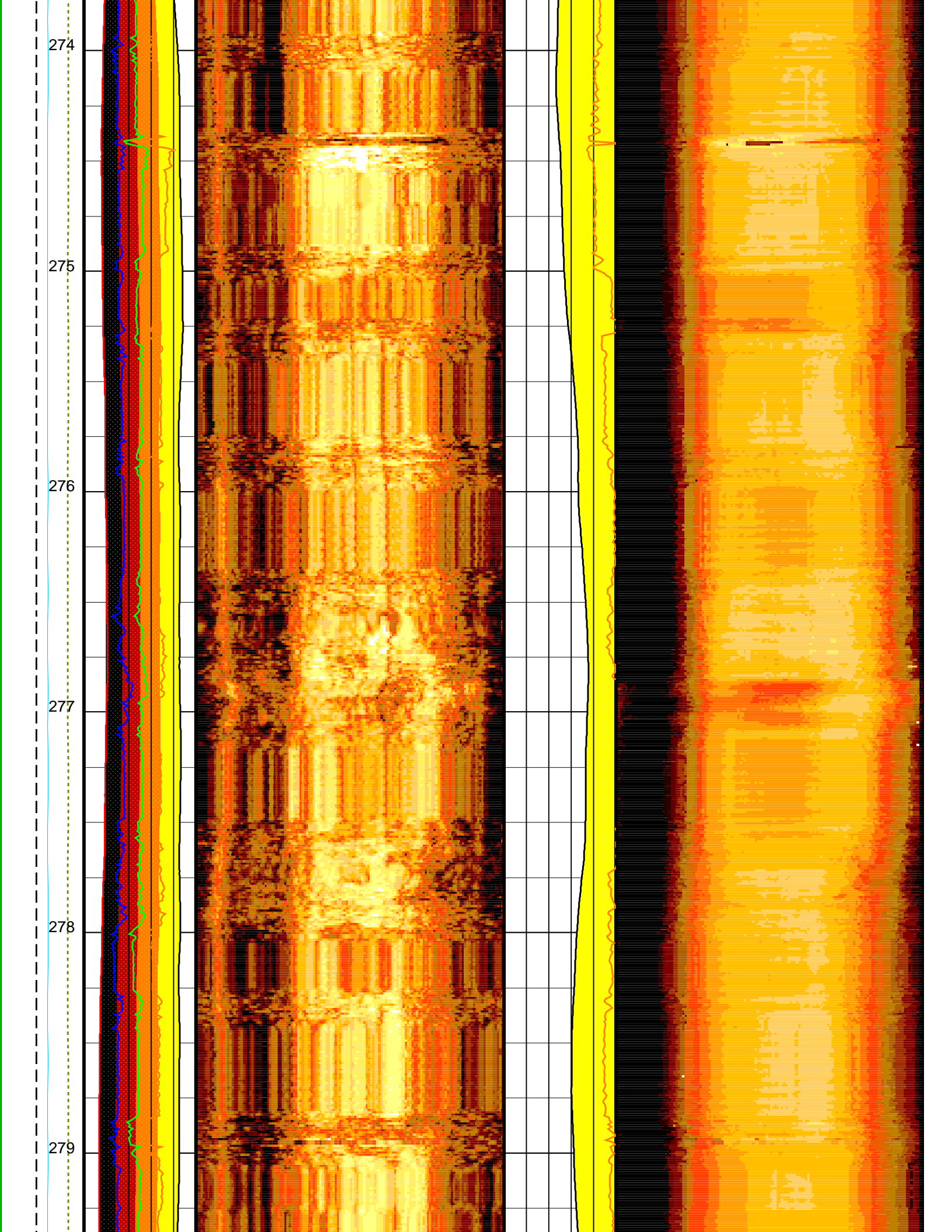
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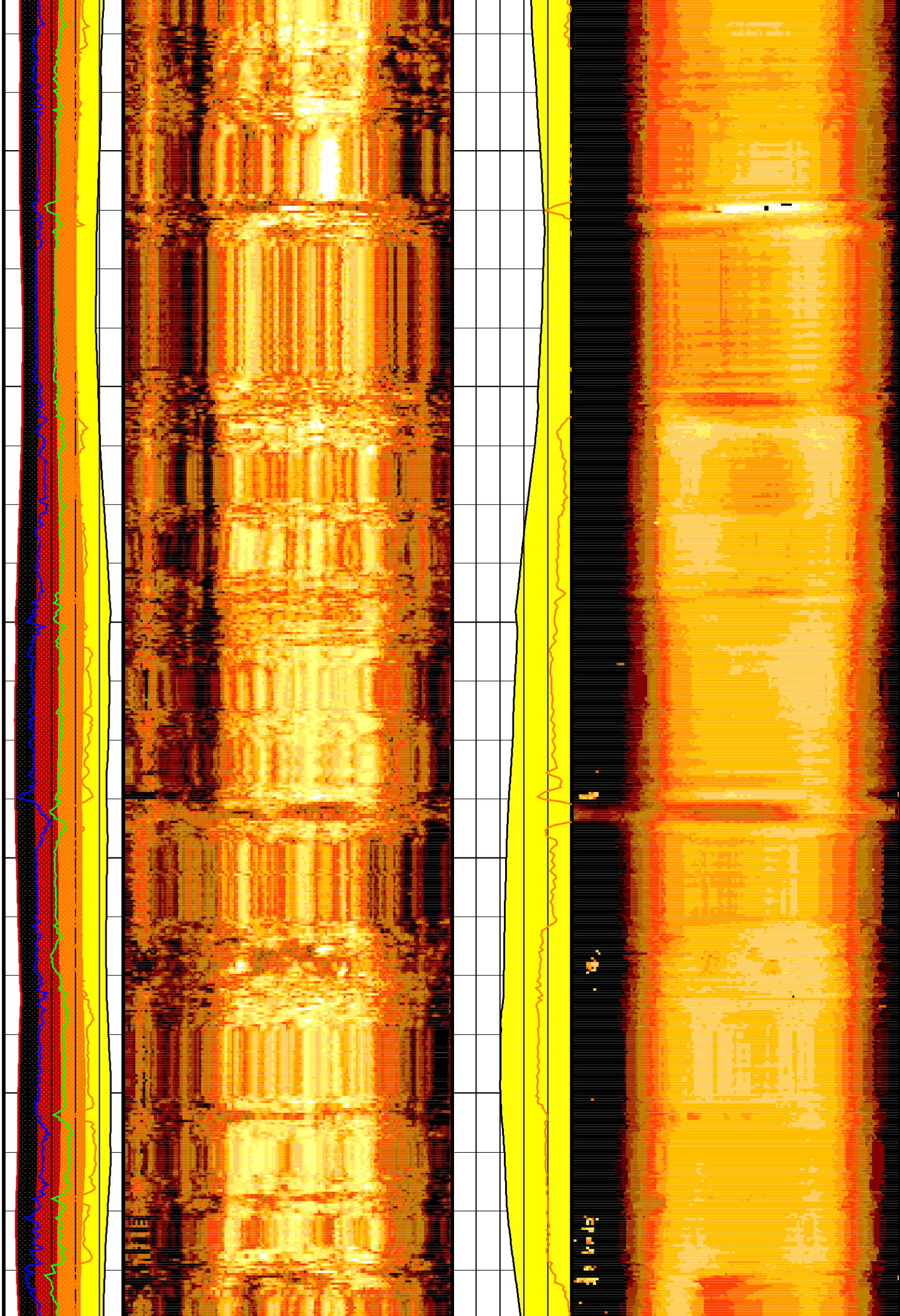
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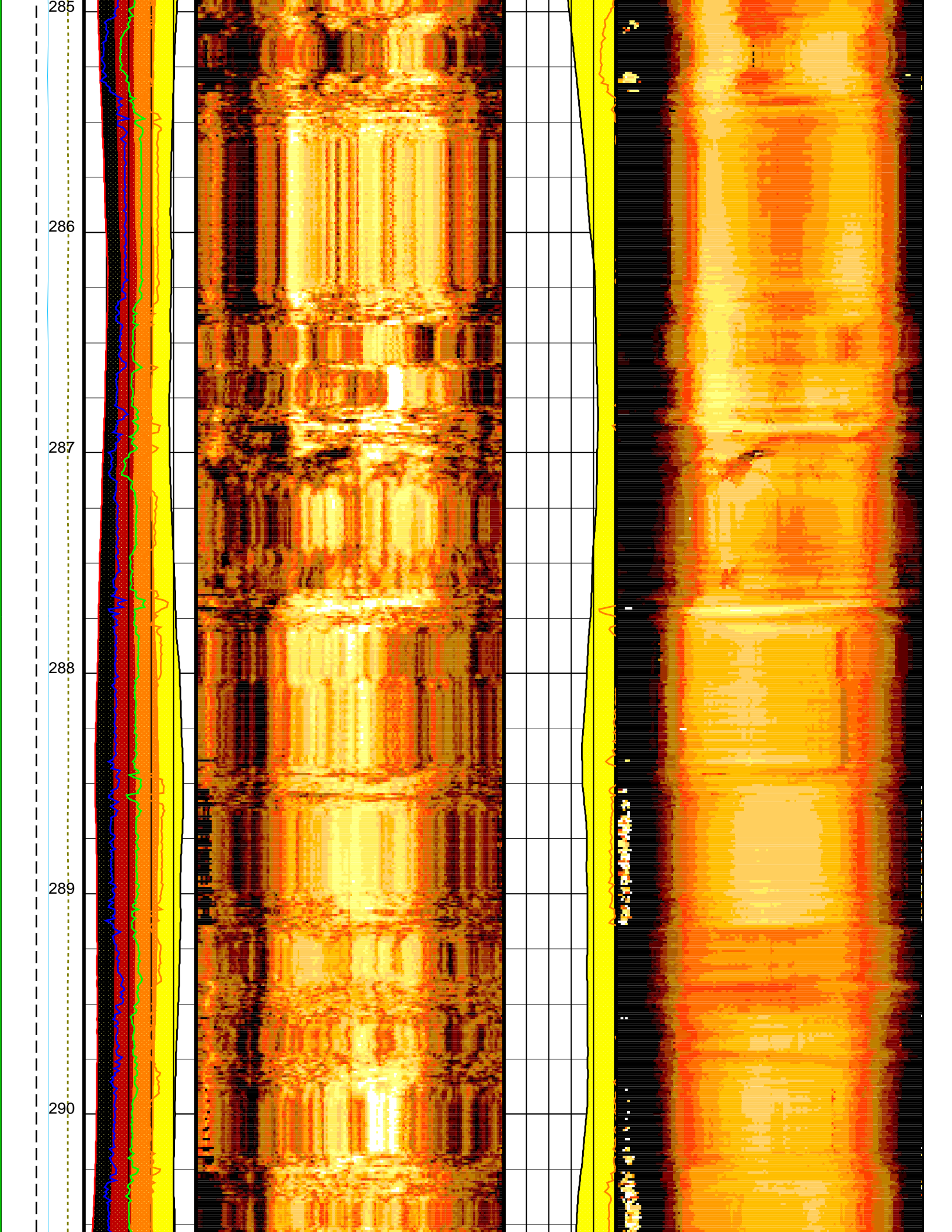
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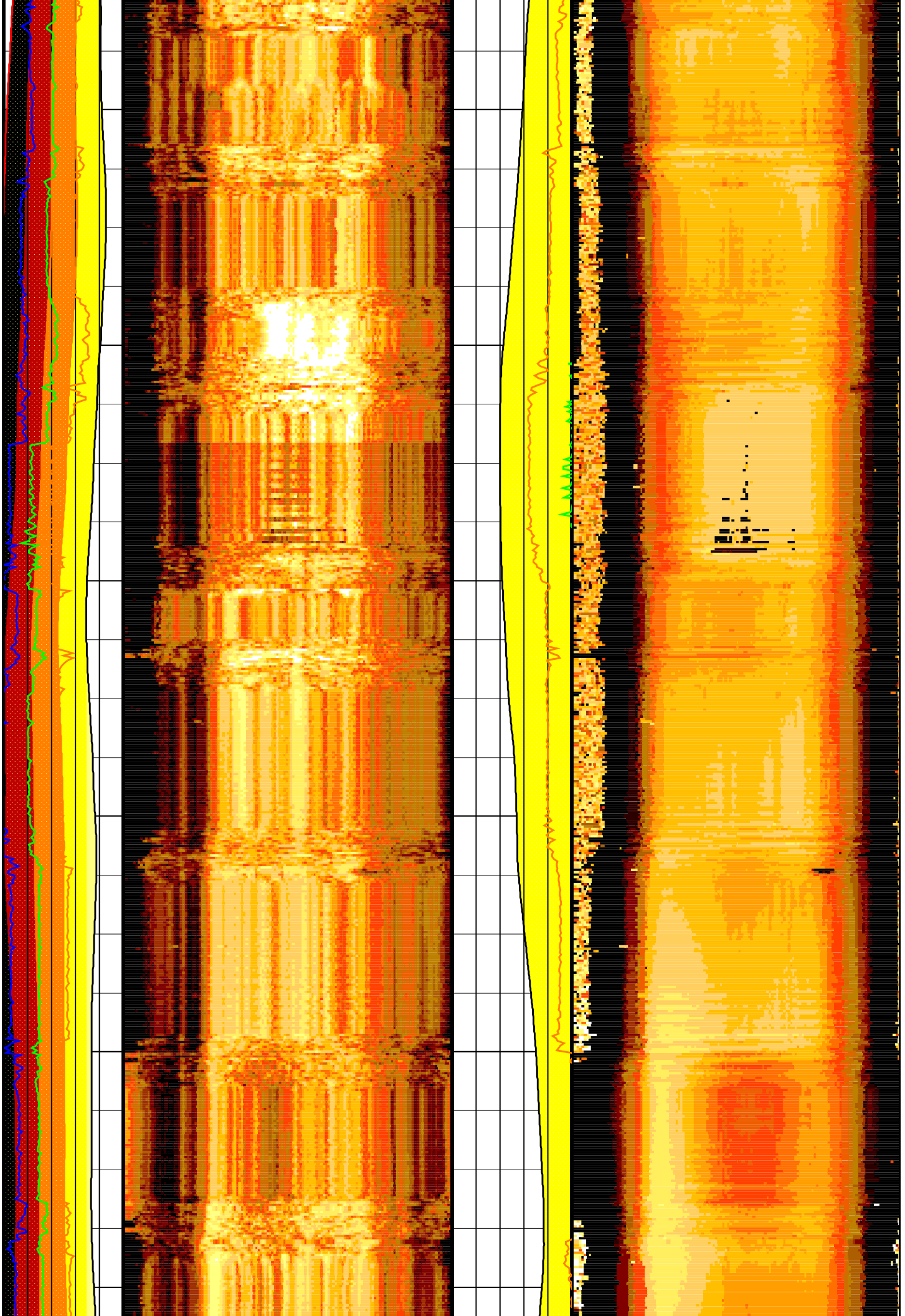


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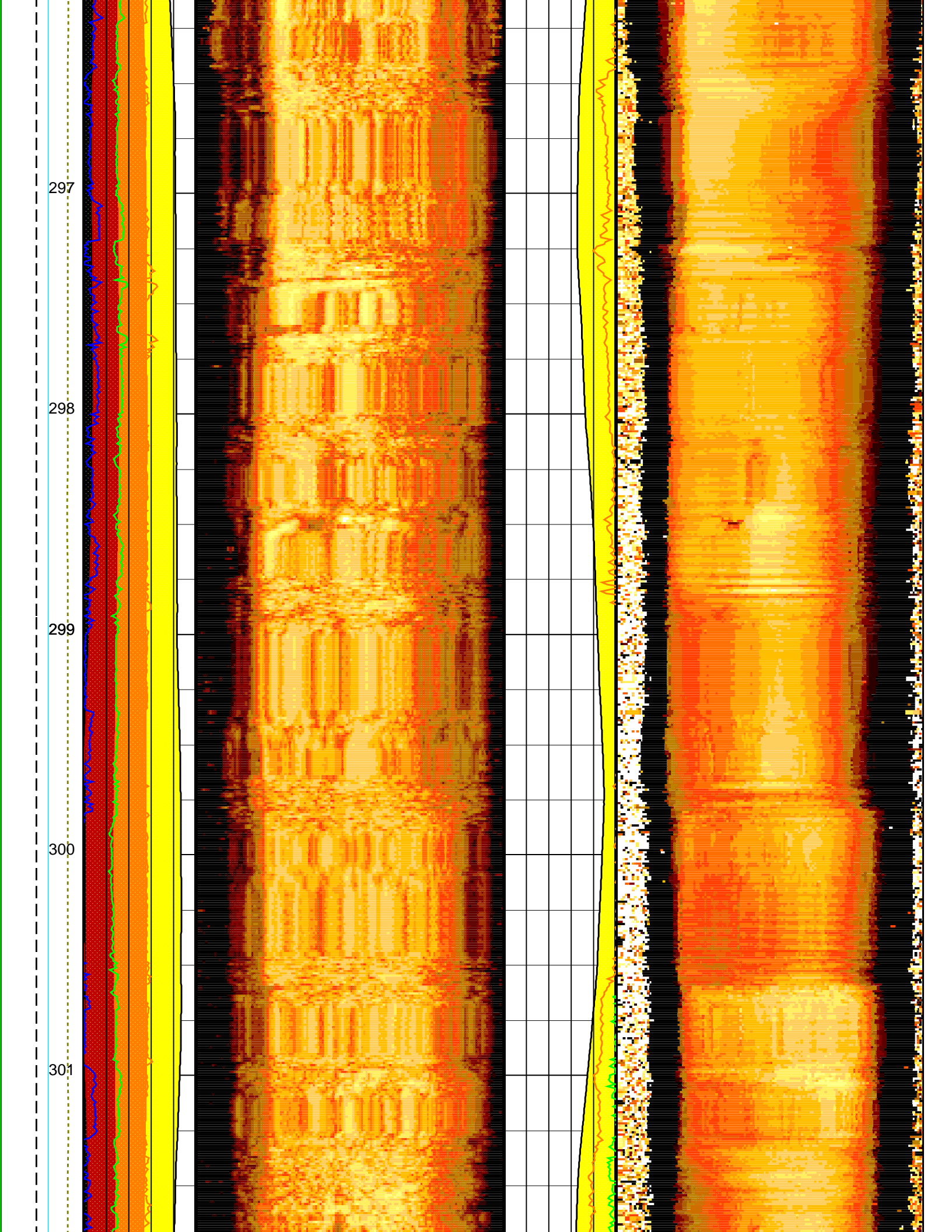
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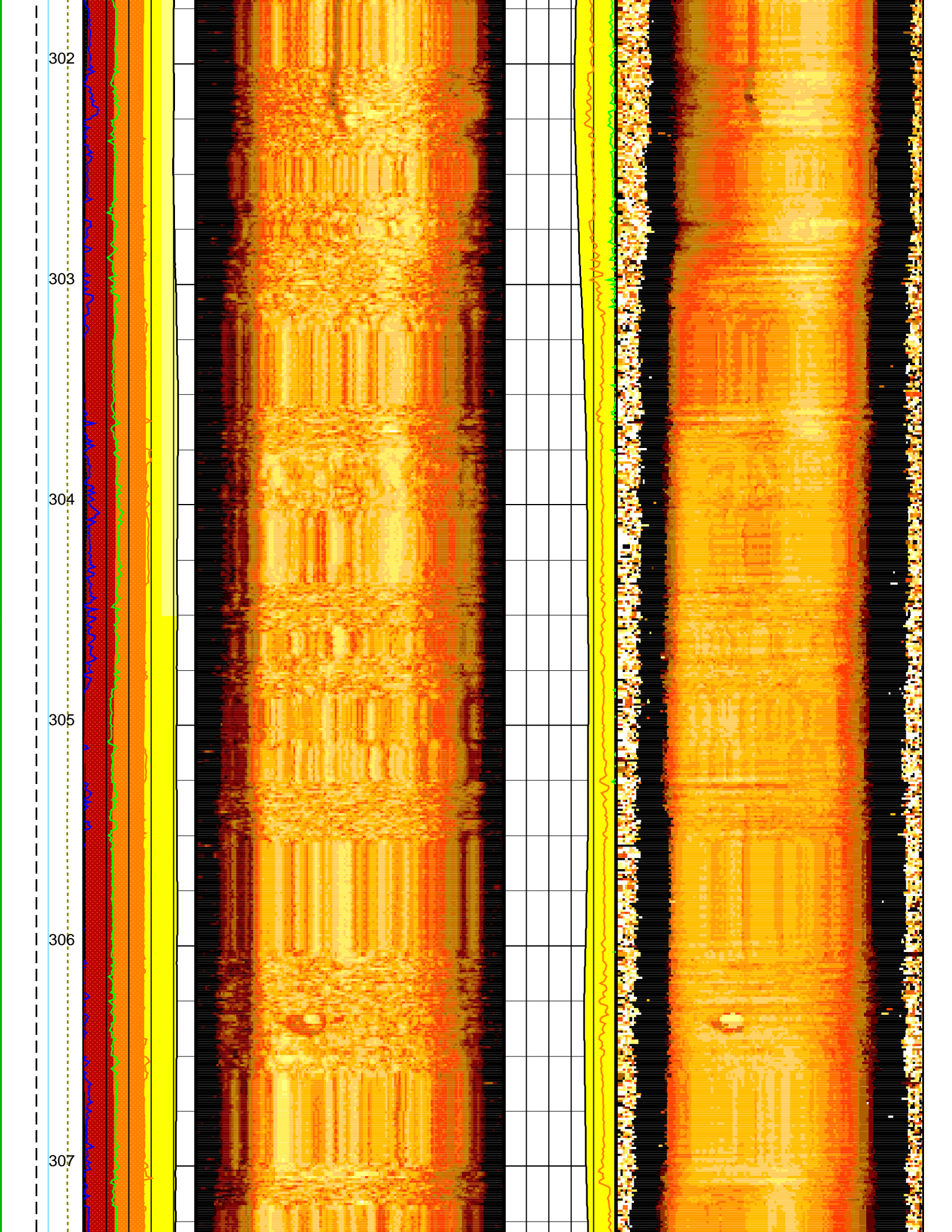
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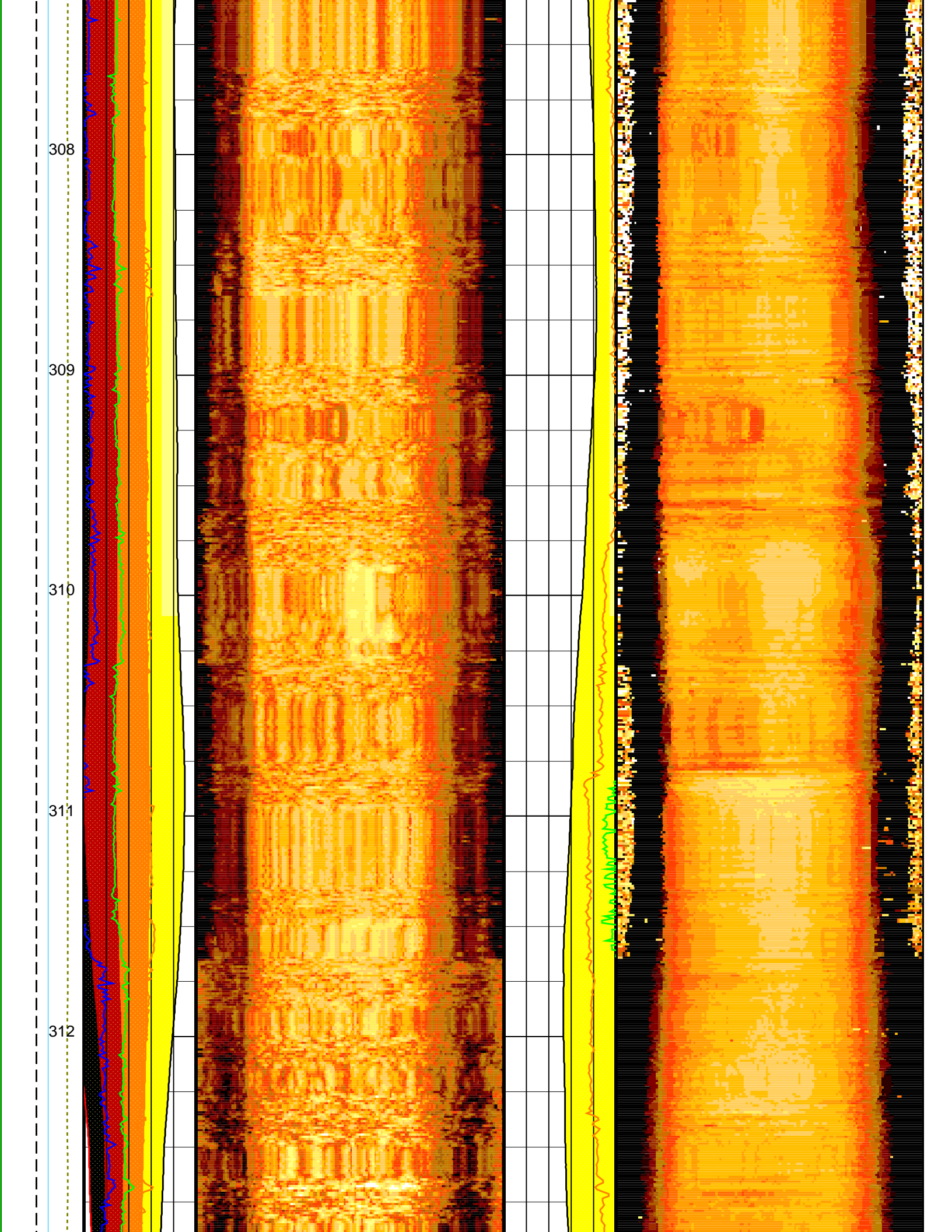
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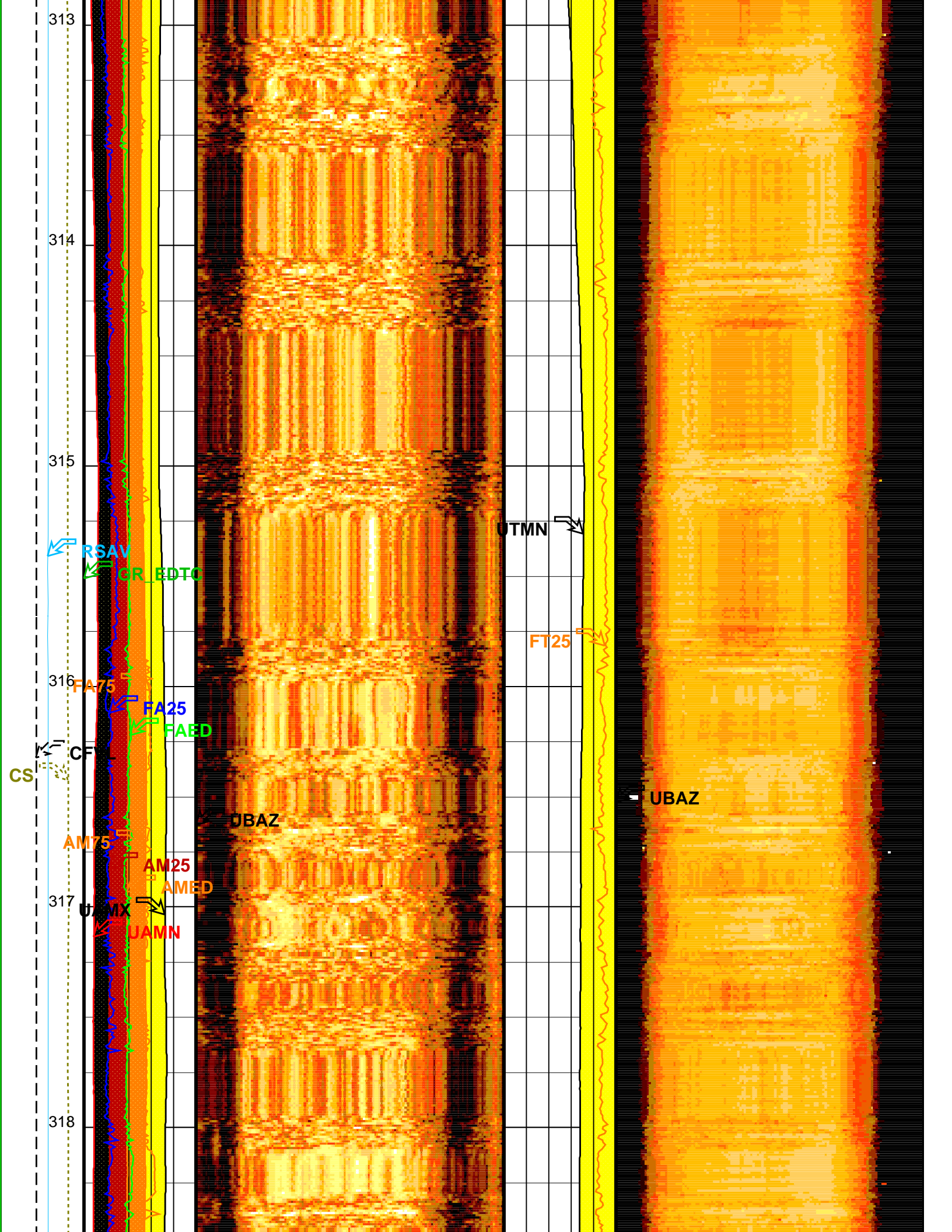
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at the end of the year





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RSAV

GR EDTC

FA75

FA25

FAED

CF

AM75

AM25

AMED

JAMN

JAMX

UTMN

FT25

UBAZ

UBAZ

CS

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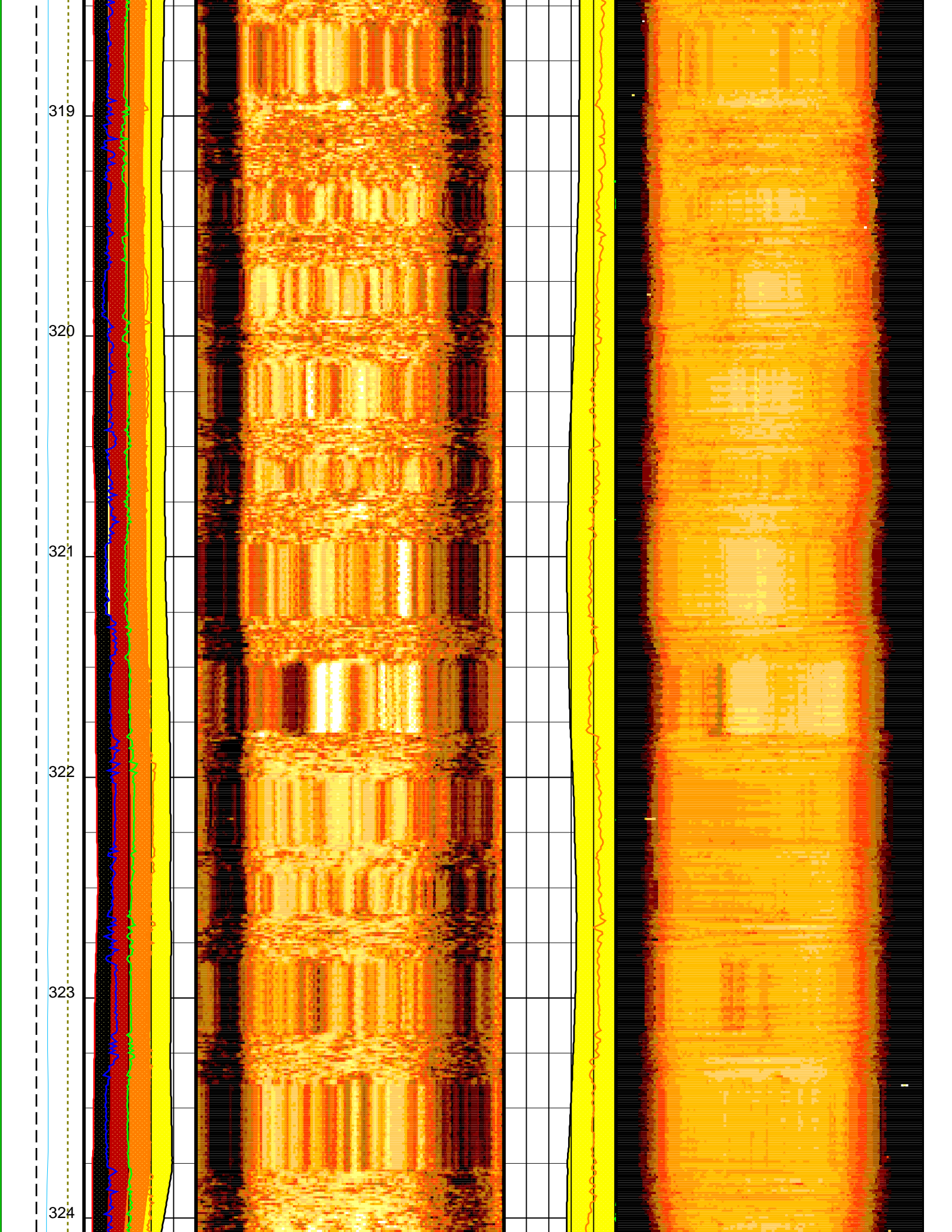
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Sub Rotation Started

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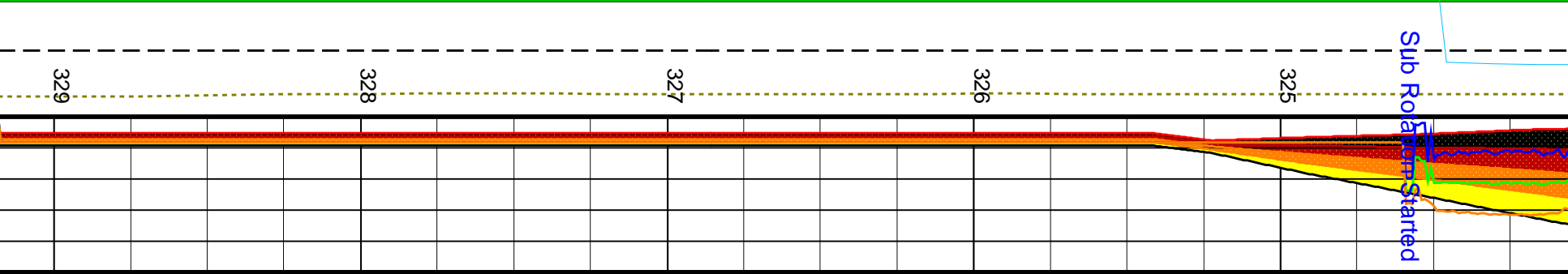
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Rev. speed (RSAV) 6 (RPS) 8 0 (DB) 50
LOW Amplitude (FA25)



Corrected Amplitude (AWCN) (DB)
-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



MEDIAN Radius (FTED) (IN) 3 6



Corrected transit time (TTCN) (US)
-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) (F/HR)	Min. of Amplitude (UAMN)
0 1000	0 (DB) 50
Fluid velocity (CFVL) (US/F)	Maximum of Amplitude (UAMX)
150 250	0 (DB) 50
Gamma Ray (GR_ EDTC) (GAPI)	MEDIAN of Amplitude (FAED)
0 75	0 (DB) 50
	HIGH Amplitude (FA75)
	0 (DB) 50

Radius LOW (FT25)
3 (IN) 6
Radius HIGH (FT75)
3 (IN) 6
Radius min (UTMN)
3 (IN) 6
Radius max (UTMX)
3 (IN) 6

Format: UBI_Image Vertical Scale: 1:20 Graphics File Created: 11-Dec-2012 04:36

OP System Version: 19C0-187

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

Parameters

DLIS Name	Description	Value
UBI-D: Ultrasonic Borehole Imager - D		
	Vertical Resolution	IN: 0.4
	Default Fluid Velocity	206 US/F
	UBI Tool Working Mode for FPM	UBI3_SW250_180_1
	UBI Tool Working Mode for Measurement	UBI3_SW250_180_1
AAMN	Automatic Amplitude Minimum Scale	2 DB
AGMN	Minimum Gain of Cartridge	-12DB
AGMX	Maximum Gain of Cartridge	48DB
AMCM	Amplitude - max color scale minimum	-6 DB
AMCX	Amplitude - max color scale maximum	0.2 DB
ANGO	Angular Offset	-17 DEG
ATMN	Automatic Transit Time Minimum Scale	2 US
AWMN	Amplitude Color Scale Minimum	20 DB
AWMX	Amplitude Color Scale Maximum	55 DB
CACN	Corrected Amplitude Color Scale Minimum	0 DB
CACX	Corrected Amplitude Color Scale Maximum	50 DB
CRCN	Corrected Radii Color Scale Minimum	3 IN
CRCX	Corrected Radii Color Scale Maximum	4.5 IN
CSID	Casing Inner Diameter	0 IN
DCMN	Window Decrement Down	0.8
DCMX	Window Decrement Up	0.6
DFVL	Default Fluid Velocity	193 US/F
DISI	Radial Plot Depth Increment	120
DISR	Radial Plot Display Requested	0
DOT	Diameter of Tool	1.85 IN
ECRL	Eccentering Correction Level	FIRST
EMXV	EMEX Voltage	50 V
ERDB	Eccentering Rejection	12 DB
FDOS	FVEL Depth Offset	0 M
FMOS	FVEL Measurement Offset	0 US/F
FVLM	Fluid Velocity Filter	MEAN
GCSW	Gain Correction	ON
HFLT	FVEL Filter Size	10
ICMN	Internal Corrosion Color Scale Minimum	-0.15 IN
ICMX	Internal Corrosion Color Scale Maximum	0.15 IN
IMAR	Image Rotation	OFF
INHT	FIFO Inhibition Time	Inh_29us
LIM1	Minimum Limit Control	AUTO
LIM2	Maximum Limit Control	MANUAL
MLCN	Metal Loss Color Scale Minimum	-0.15 IN
MLCX	Metal Loss Color Scale Maximum	0.15 IN
NBCD	Color Correction Depth Level	80
NBLD	Eccentering Correction Depth Level	4

NBLD	Noise 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	
RRCN	Radii Color Scale Minimum	3	IN
RRCX	Radii Color Scale Maximum	4.5	IN
SUBT	UBI Sub type	Sub_5_inch_S	
SWLV	Sliding Window Minimum	Inh_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UBI_USAC_TASK_ALLOW	UBI USAC Allow Task after Power Up	YES	
UBI_USAC_TASK_TIMEOUT	UBI USAC Task Timeout (in seconds) FOR TEST REPORT	600	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
UMFR	Modulation Frequency	500000	HZ
UPAT	Emission Pattern	Pattern_250K	
USFR	Sampling Frequency	1e+006	HZ
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI9_SW250_140_RAW	
VERR	acq VERTICAL Resolution	IN: 0.4	
WFVS	Vertical Sampling	0.4	IN
WINB	Window Beginning Time	18.5	US
WINE	Window end time	36	US
GPIT-A/B: General Purpose Inclinometer			
ACPP	Accelerometer PROM Presence	PRESENT	
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ART	Accelerometer Reference Temperature	20	DEGC
GLM	GPIT Logging Mode	DIPM	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MAPP	Magnetometer PROM Presence	PRESENT	
MDEC	Magnetic Field Declination	-0.785248	DEG
MRTE	Magneto Reference Temperature	19	DEGC
TEMS	GPIT Temperature Sensor Used	BOTH	
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO	
HRLT-B: High Resolution Laterolog Array - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	30.2229	DEGC
FREQ0	HRLT Frequency Index for Mode 0	32	
FREQ1	HRLT Frequency Index for Mode 1	128	
FREQ2	HRLT Frequency Index for Mode 2	104	
FREQ3	HRLT Frequency Index for Mode 3	86	
FREQ4	HRLT Frequency Index for Mode 4	56	
FREQ5	HRLT Frequency Index for Mode 5	44	
FREQ6	HRLT Frequency Index for Mode 6	116	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
LOOPCOEF_S	HRLT Loop Coefficient for Shallow Modes	LOW	
LOOPMOD0	HRLT Mode 0 Loop Mode	AUTO	
LOOPMOD1	HRLT Mode 1 Loop Mode	AUTO	
LOOPMOD2	HRLT Mode 2 Loop Mode	AUTO	
LOOPMOD3	HRLT Mode 3 Loop Mode	AUTO	
LOOPMOD4	HRLT Mode 4 Loop Mode	AUTO	
LOOPMOD5	HRLT Mode 5 Loop Mode	AUTO	
LOOPMOD6	HRLT Mode 6 Loop Mode	AUTO	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROCVN	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	0	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSP0	Sonde Position	Centered	
SHT	Surface Hole Temperature	30	DEGC
HLDS: Hostile Litho-Density Sonde			
CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
MDEN	Matrix Density	2.71	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V

PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000	
PSDS	HLDS SS Pulse Shape Compensation DAC	30000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00235707	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	30	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.05984	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03642	
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	30	DEGC
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
UHSV: UBI Hole Shape Analysis			
	Vertical Resolution	IN: 0.4	
	Default Fluid Velocity	206	US/F
	UBI Tool Working Mode for FPM	UBI3_SW250_180_1	
	UBI Tool Working Mode for Measurement	UBI3_SW250_180_1	
AAMN	Automatic Amplitude Minimum Scale	2	DB
AGMN	Minimum Gain of Cartridge	-12DB	
AGMX	Maximum Gain of Cartridge	48DB	
AMCM	Amplitude - max color scale minimum	-6	DB
AMCX	Amplitude - max color scale maximum	0.2	DB
ANGO	Angular Offset	-17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
AWMN	Amplitude Color Scale Minimum	20	DB
AWMX	Amplitude Color Scale Maximum	55	DB
CACN	Corrected Amplitude Color Scale Minimum	0	DB
CACX	Corrected Amplitude Color Scale Maximum	50	DB
CRCN	Corrected Radii Color Scale Minimum	3	IN
CRCX	Corrected Radii Color Scale Maximum	4.5	IN
CSID	Casing Inner Diameter	0	IN

CSID	Casing Inner Diameter	0	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	193	US/F
DISI	Radial Plot Depth Increment	120	
DISR	Radial Plot Display Requested	0	
DOT	Diameter of Tool	1.85	IN
ECRL	Eccentering Correction Level	FIRST	
EMXV	EMEX Voltage	50	V
ERDB	Eccentering Rejection	12	DB
FDOS	FVEL Depth Offset	0	M
FMOS	FVEL Measurement Offset	0	US/F
FVLM	Fluid Velocity Filter	MEAN	
GCSW	Gain Correction	ON	
HFLT	FVEL Filter Size	10	
ICMN	Internal Corrosion Color Scale Minimum	-0.15	IN
ICMX	Internal Corrosion Color Scale Maximum	0.15	IN
IMAR	Image Rotation	OFF	
INHT	FIFO Inhibition Time	Inh_29us	
LIM1	Minimum Limit Control	AUTO	
LIM2	Maximum Limit Control	MANUAL	
MLCN	Metal Loss Color Scale Minimum	-0.15	IN
MLCX	Metal Loss Color Scale Maximum	0.15	IN
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	
RRCN	Radii Color Scale Minimum	3	IN
RRCX	Radii Color Scale Maximum	4.5	IN
SUBT	UBI Sub type	Sub_5_inch_S	
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
UMFR	Modulation Frequency	500000	HZ
UPAT	Emission Pattern	Pattern_250K	
USFR	Sampling Frequency	1e+006	HZ
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI9_SW250_140_RAW	
VERR	acq VERTICAL Resolution	IN: 0.4	
WFVS	Vertical Sampling	0.4	IN
WINB	Window Beginning Time	18.5	US
WINE	Window end time	36	US

System and Miscellaneous

ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	11.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	10.750	IN
CWEI	Casing Weight	43.00	LB/F
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	-2469.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	2970	M
TDD	Total Depth - Driller	2941.00	M
TDL	Total Depth - Logger	2945.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Input DLIS Files

DEFAULT	UBI_HRLA_LDL_NGS_027LUP	FN:34	PRODUCER	10-Dec-2012 06:35	2798.1 M	2446.3 M
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Output DLIS Files

DEFAULT	UBI_HRLA_LDL_NGS_062PUP	FN:81	PRODUCER	11-Dec-2012 04:36		
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Company: Lamont Doherty

Well: Expedition 344, Site U1414A

Input DLIS Files

DEFAULT	UBI_HRLA_LDL_NGS_025LUP	FN:30	PRODUCER	10-Dec-2012 05:11	2887.2 M	2779.5 M
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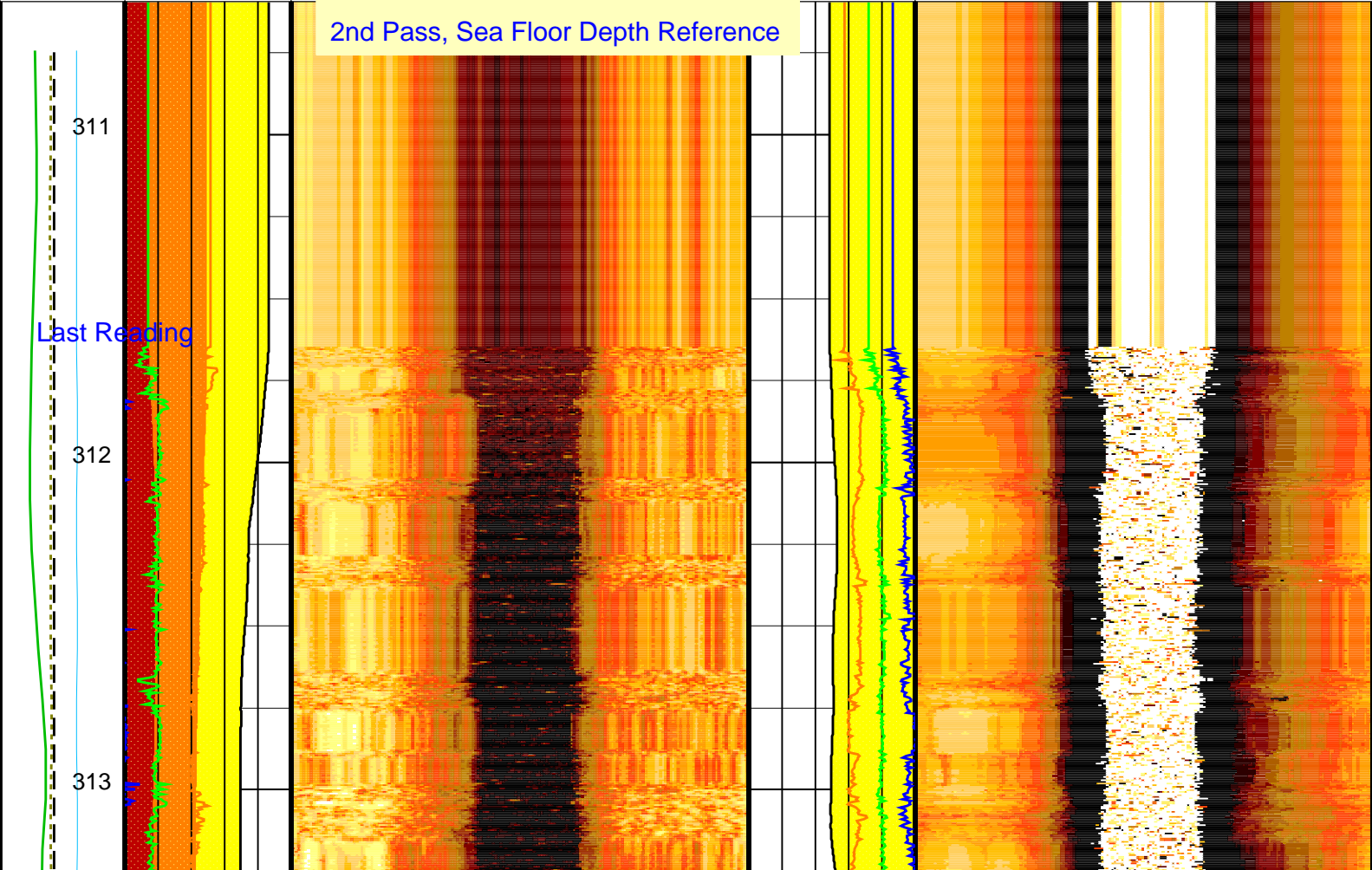
Output DLIS Files

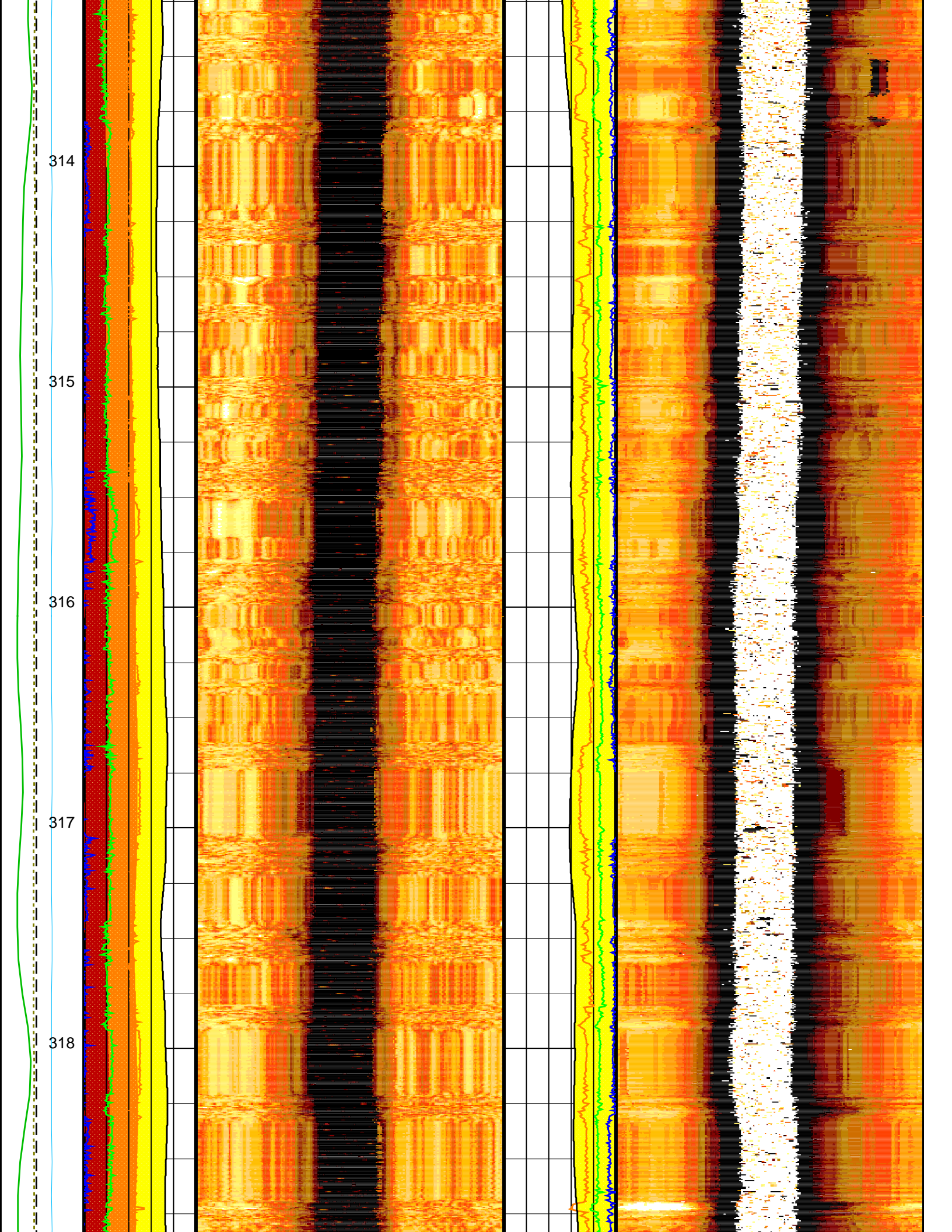
OP System Version: 19C0-187

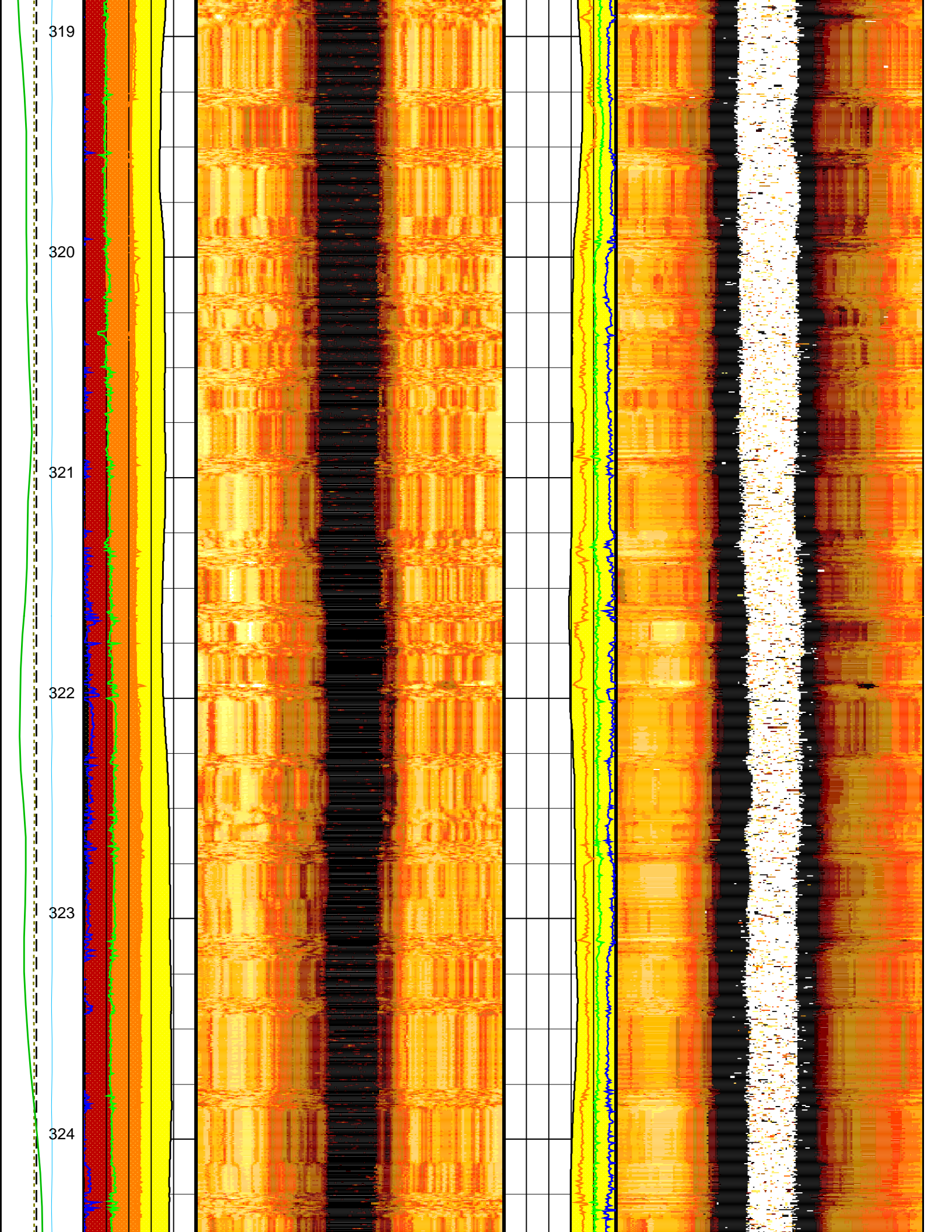
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DTA-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

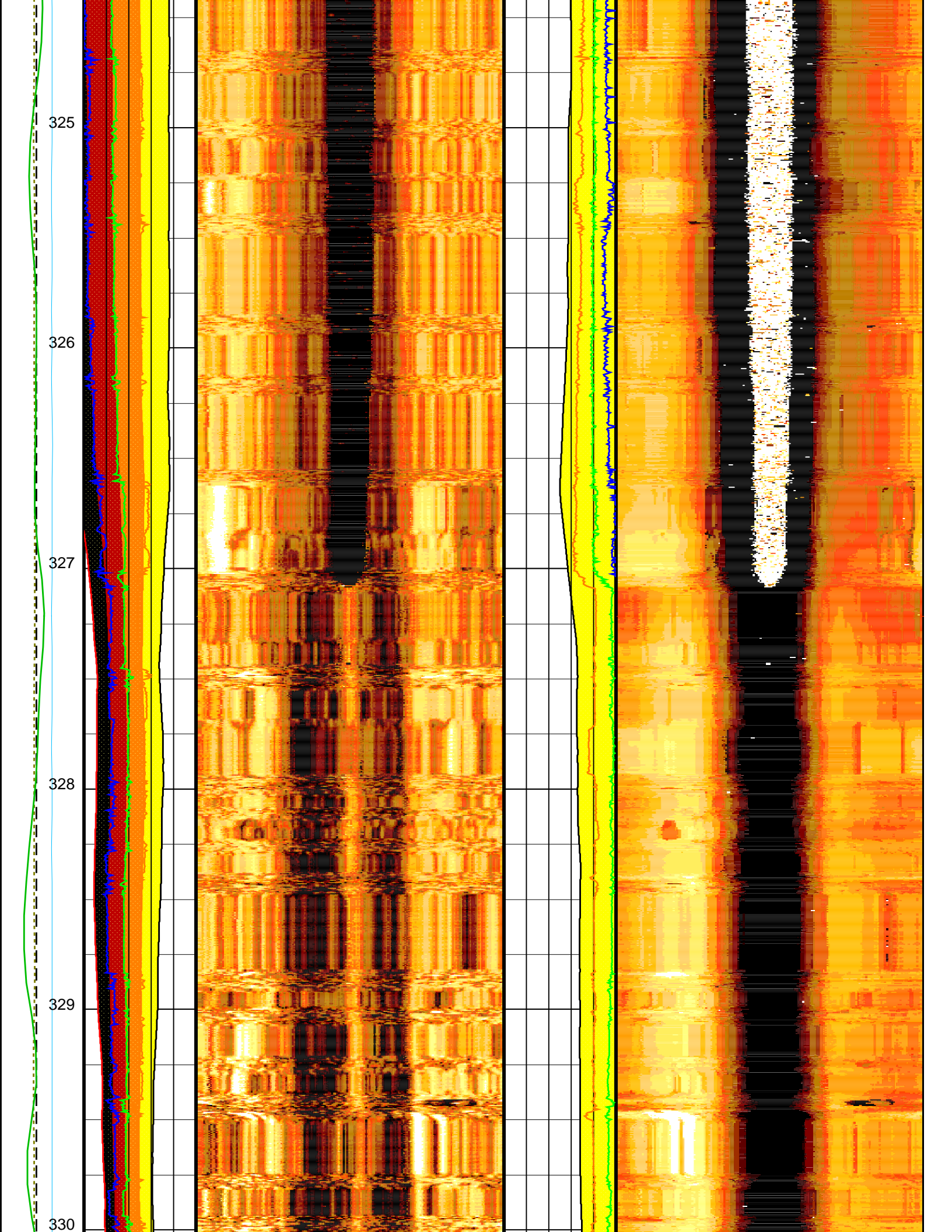
	HIGH Amplitude (FA75) 0 (DB) 50		Radius max (UTMX) 3 (IN) 6	
Gamma Ray (GR_EDTC) (GAPI) 0 75	MEDIAN of Amplitude (FAED) 0 (DB) 50		Radius min (UTMN) 3 (IN) 6	
Fluid velocity (CFVL) (US/F) 150 250	Maximum of Amplitude (UAMX) 0 (DB) 50		Radius HIGH (FT75) 3 (IN) 6	
Cable Speed (CS) (F/HR) 0 1000	Min. of Amplitude (UAMN) 0 (DB) 50		Radius LOW (FT25) 3 (IN) 6	
Rev. speed (RSAV) (RPS) 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)	MEDIAN Radius (FTED) 3 (IN) 6	-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)

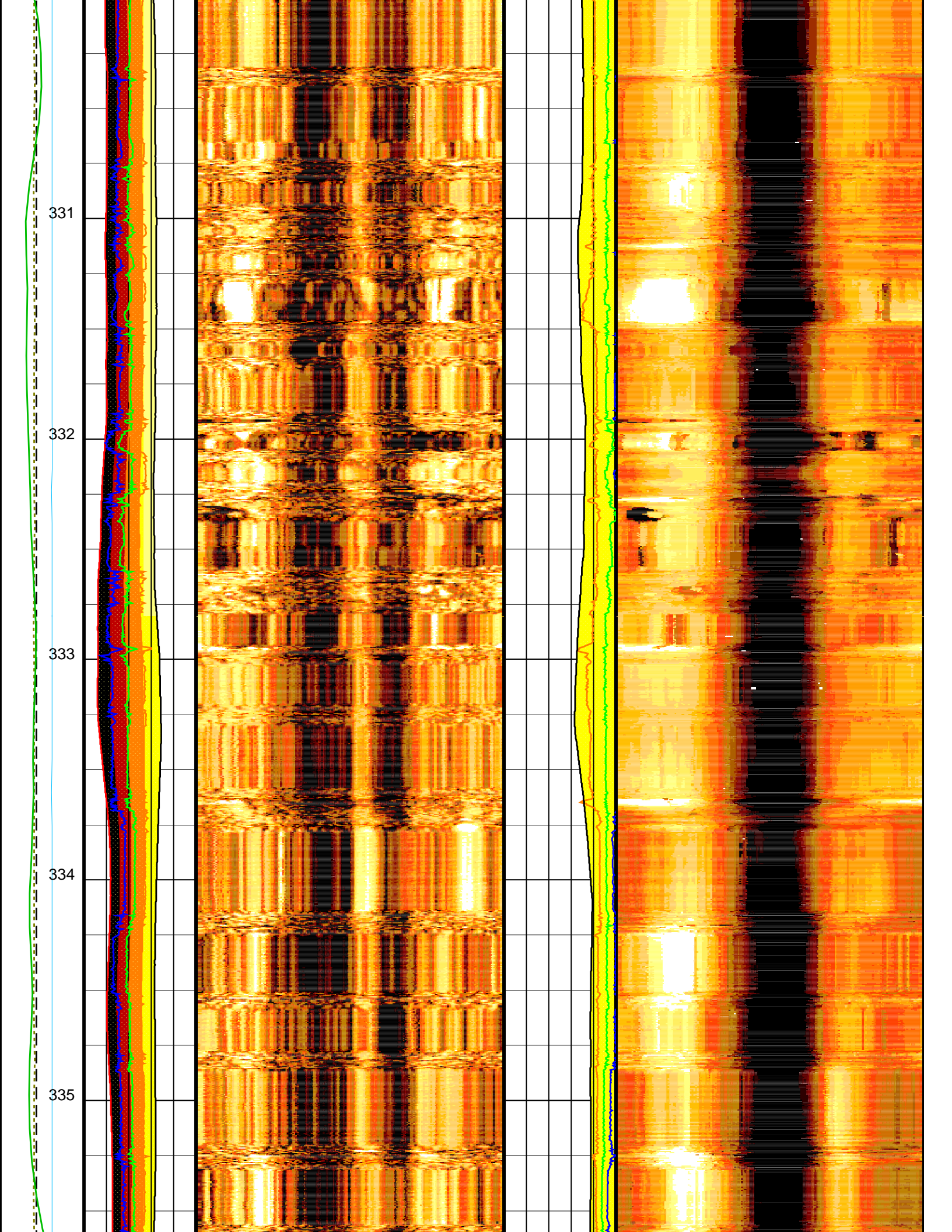
2nd Pass, Sea Floor Depth Reference

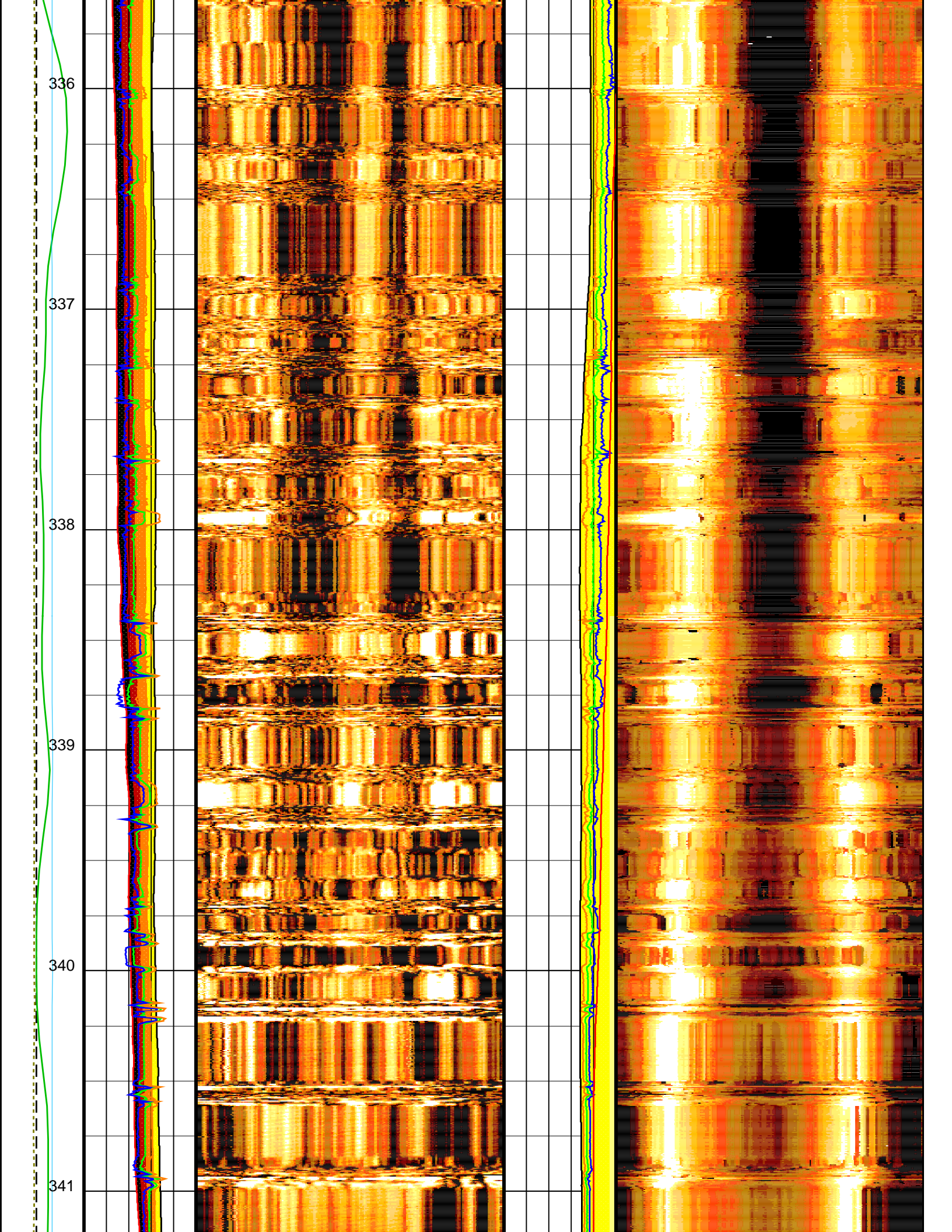


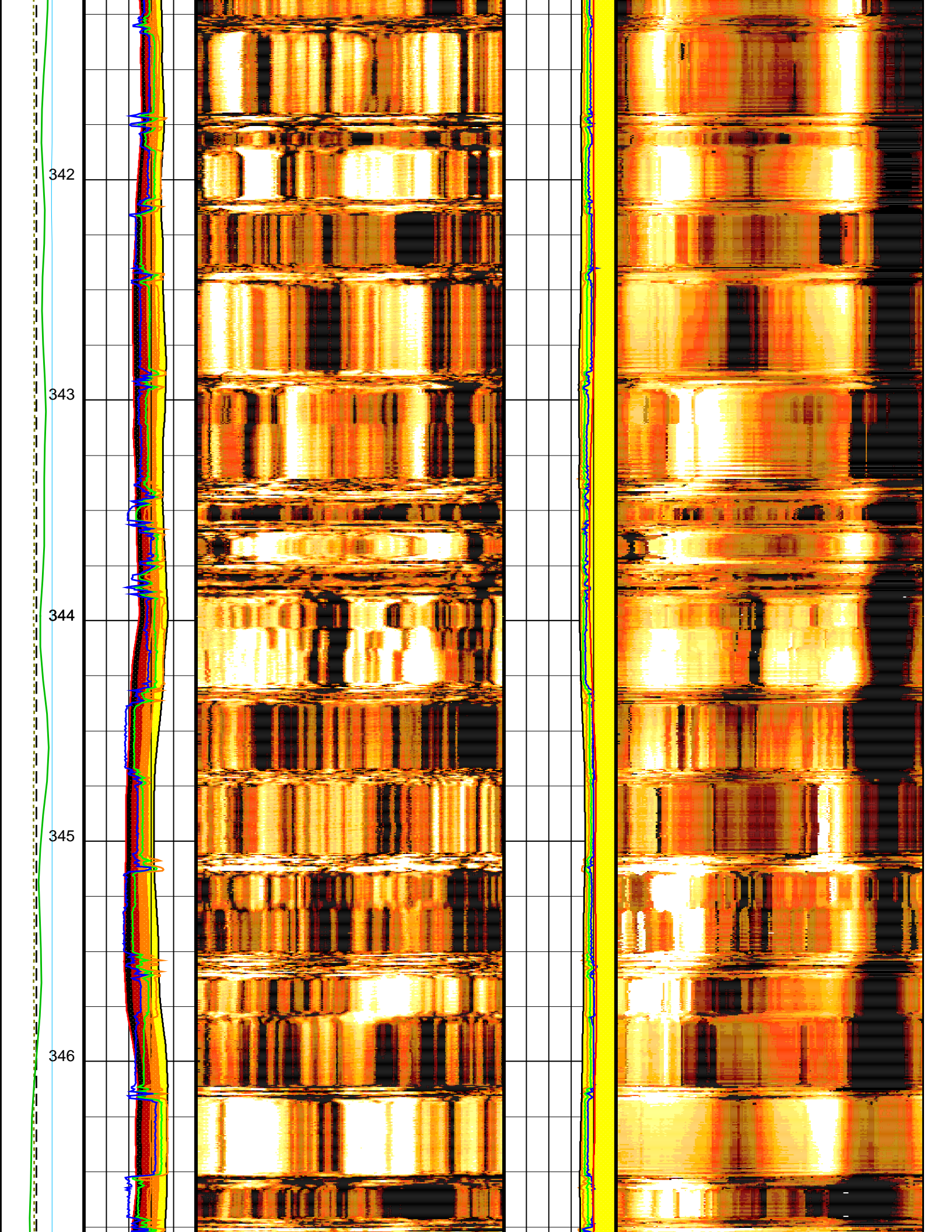












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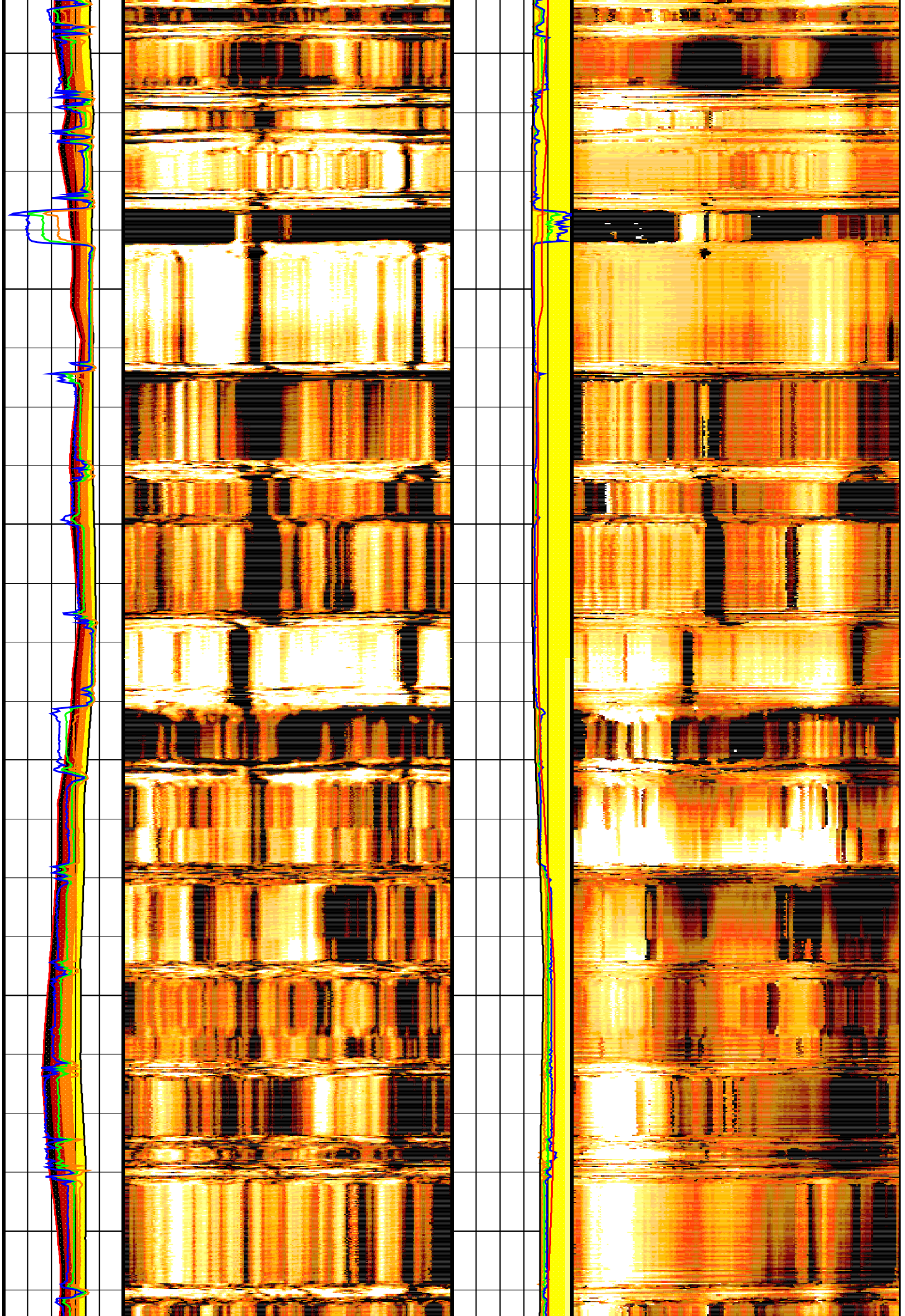
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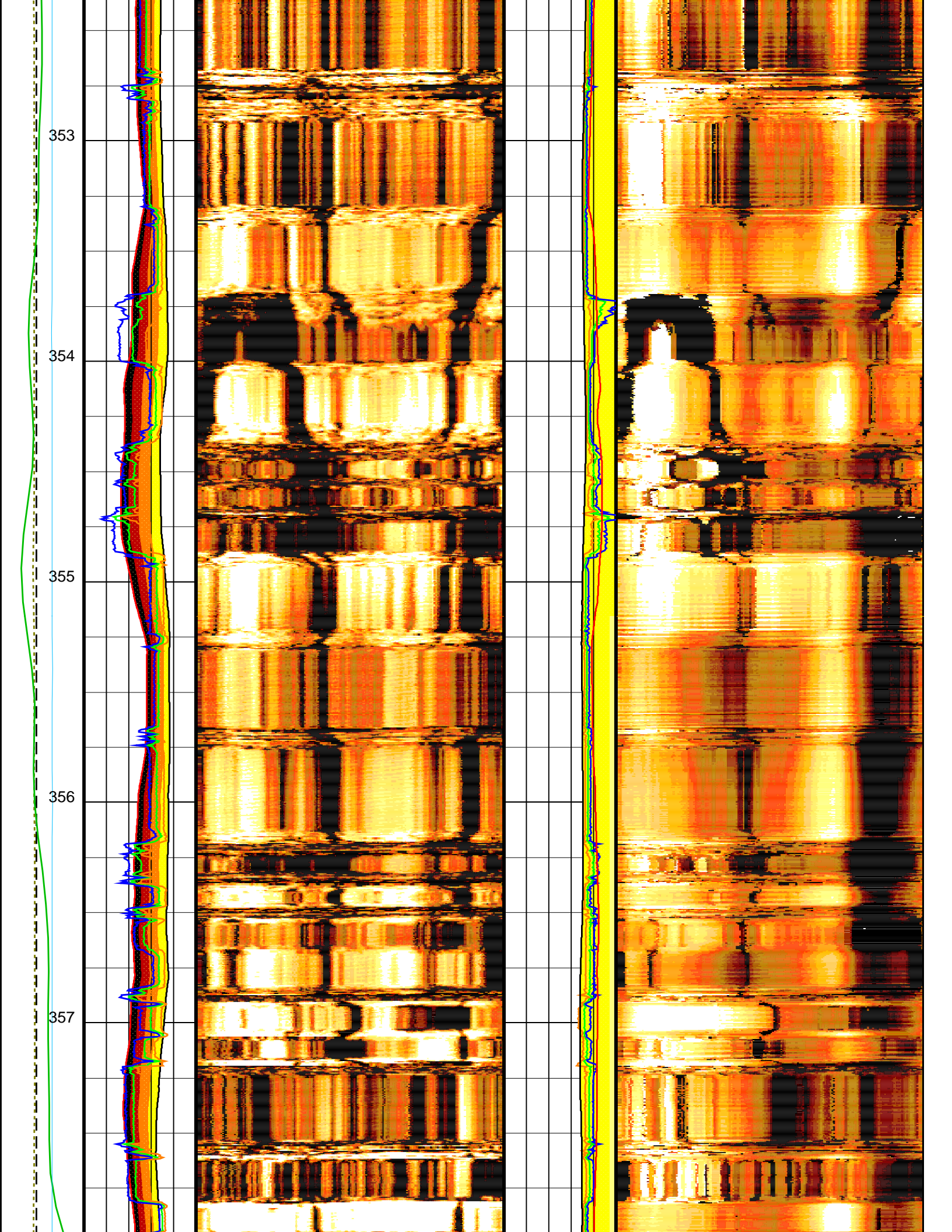
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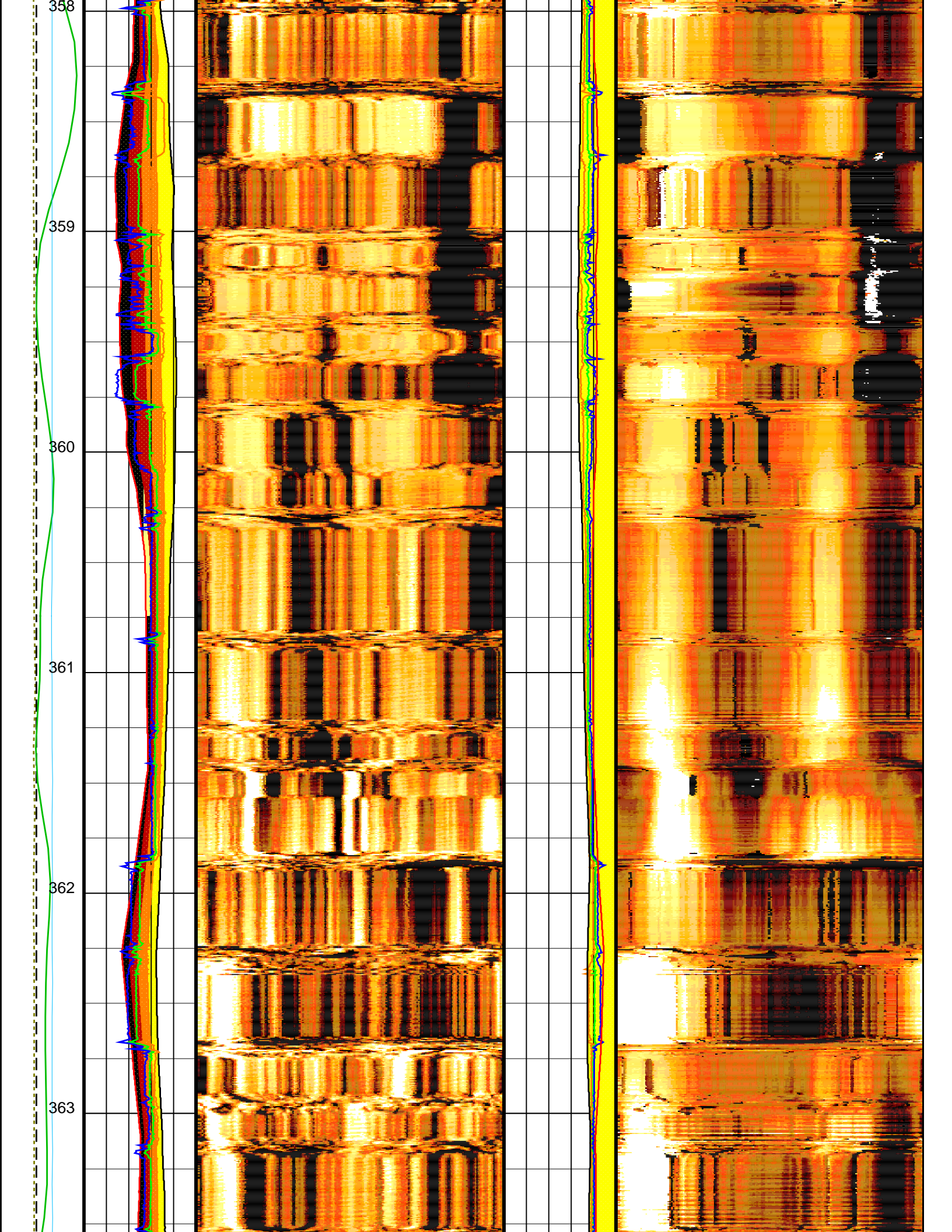
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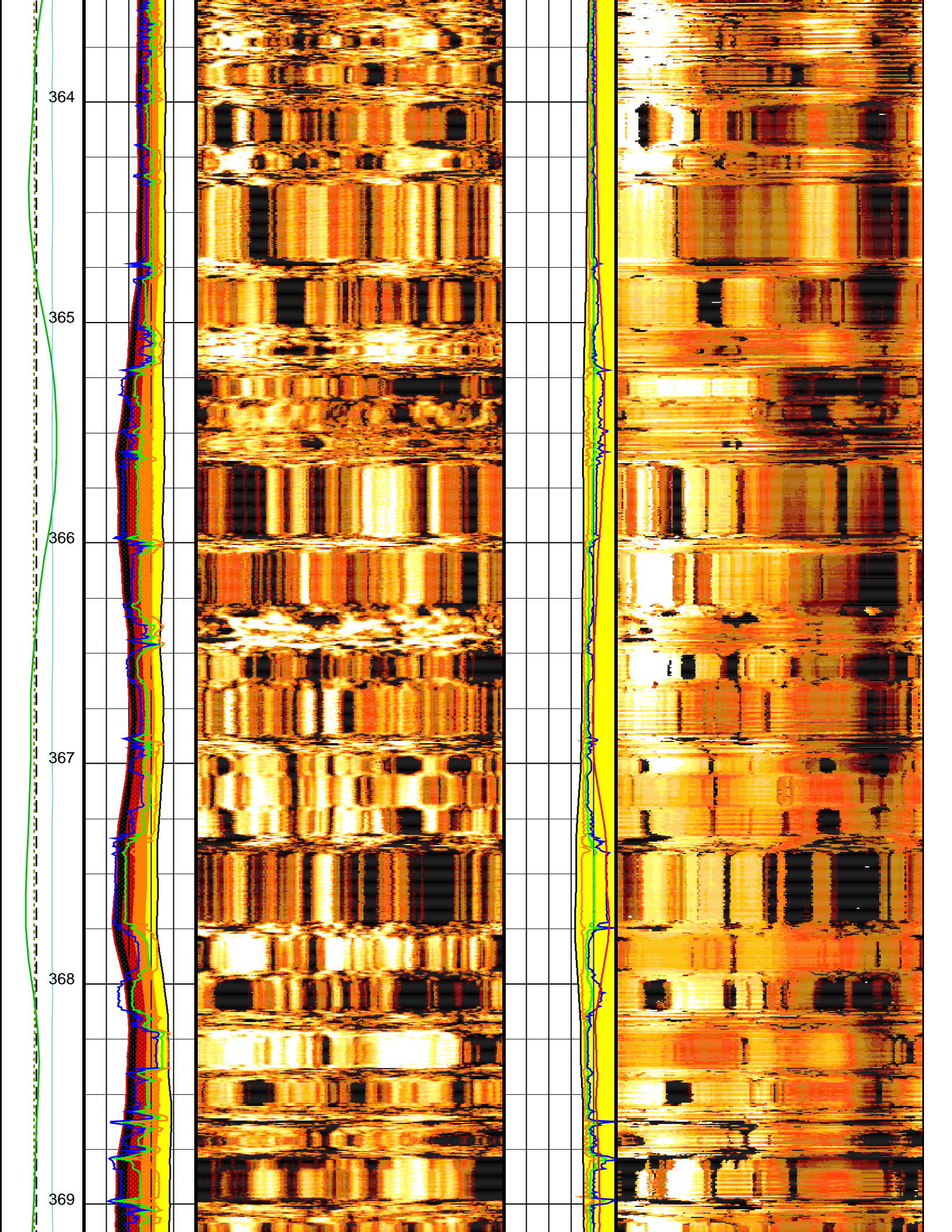
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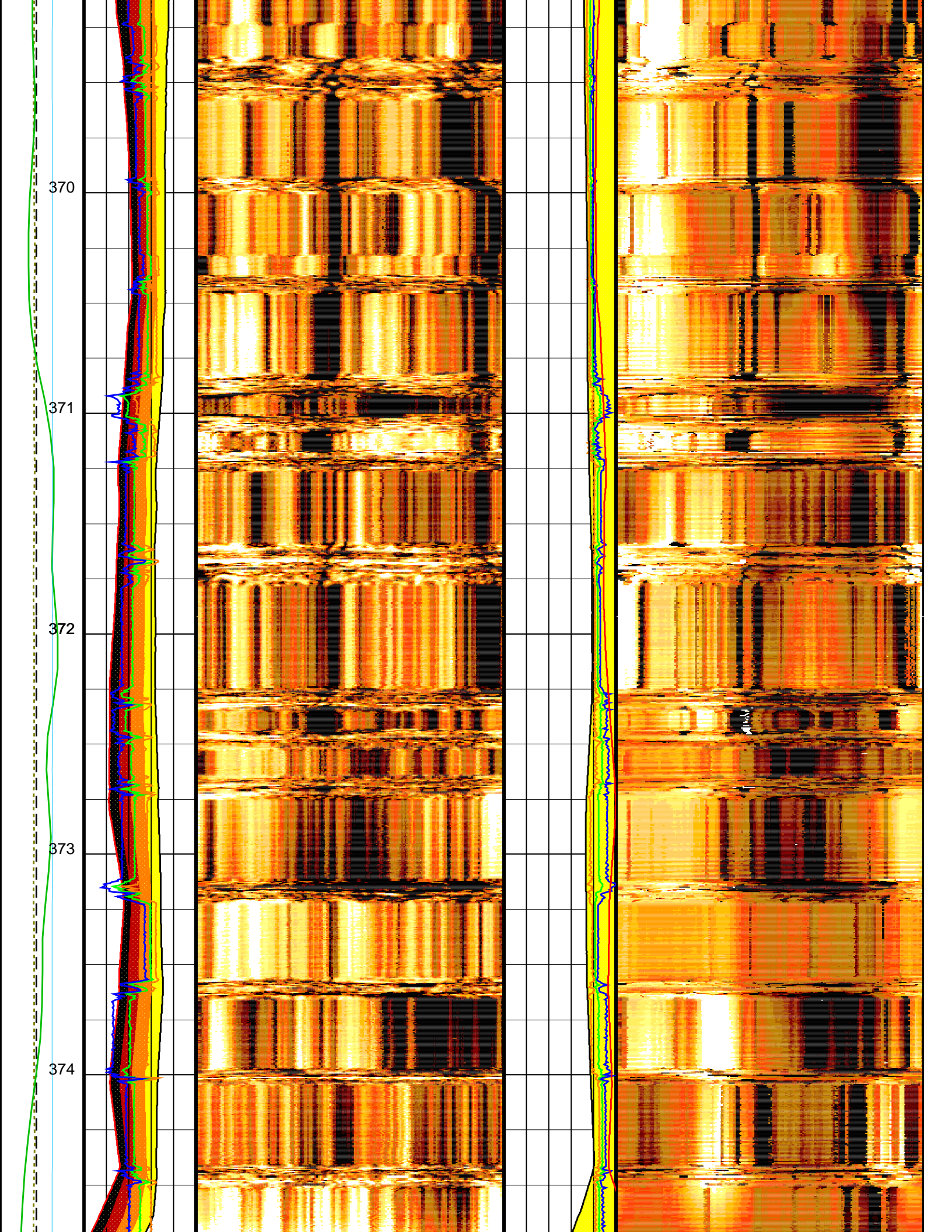
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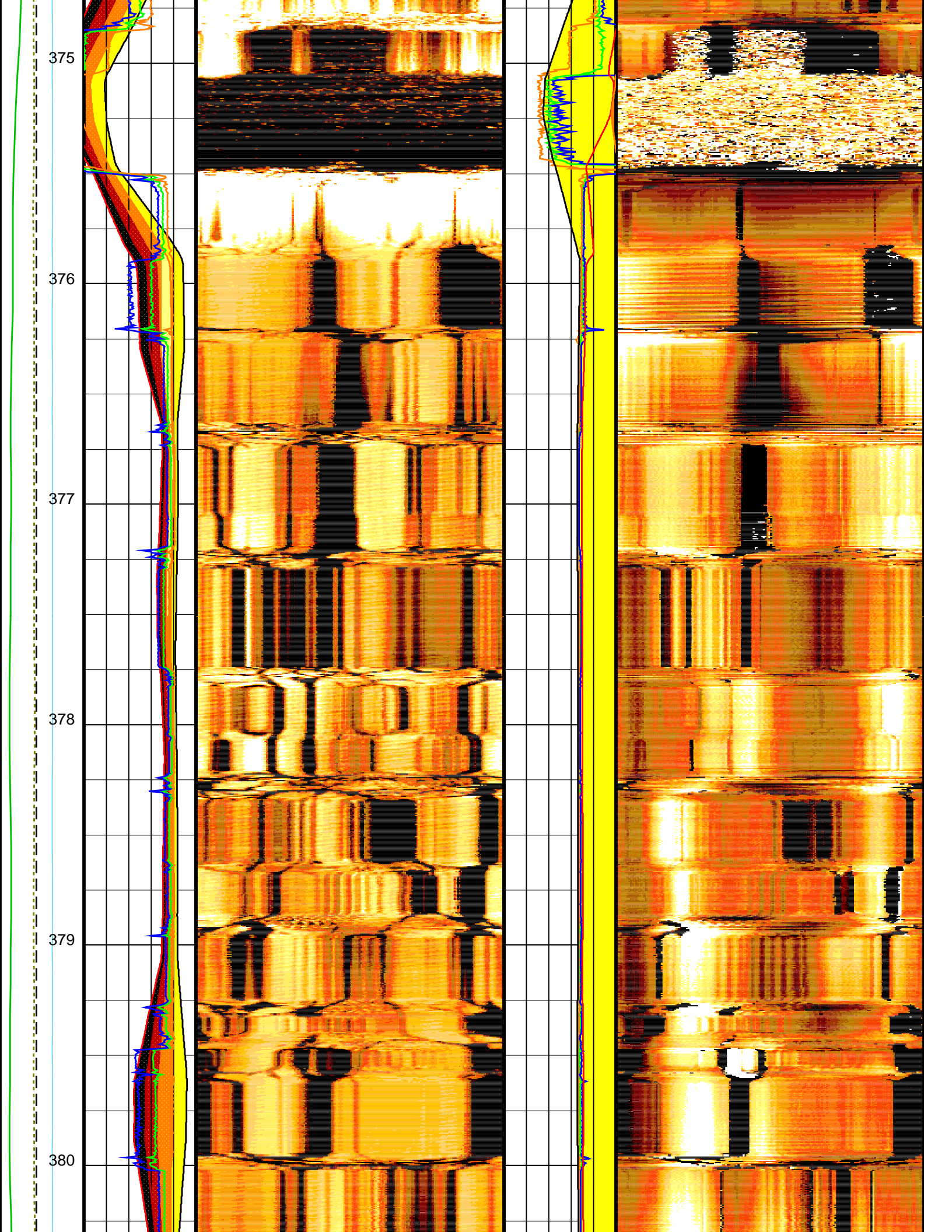












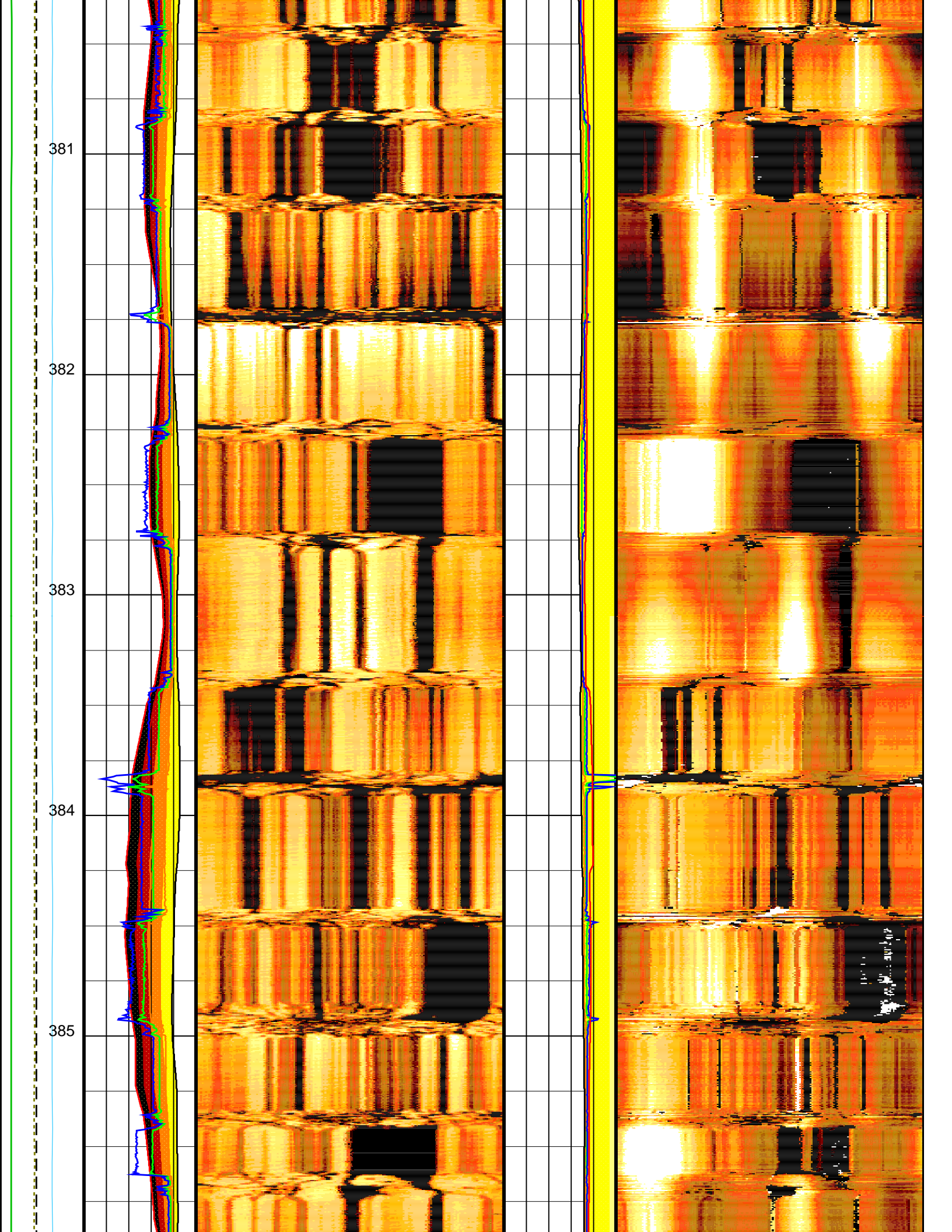
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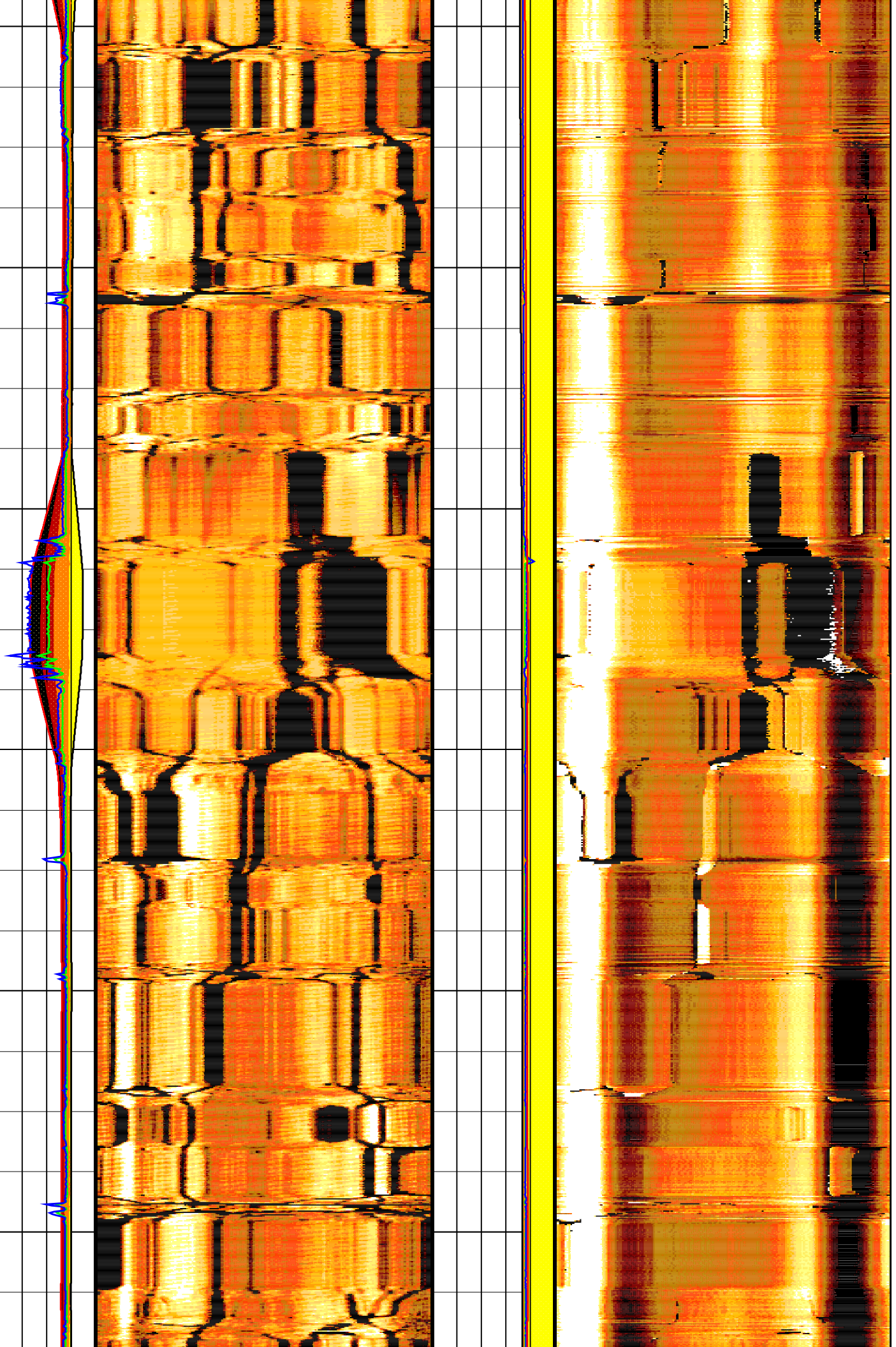
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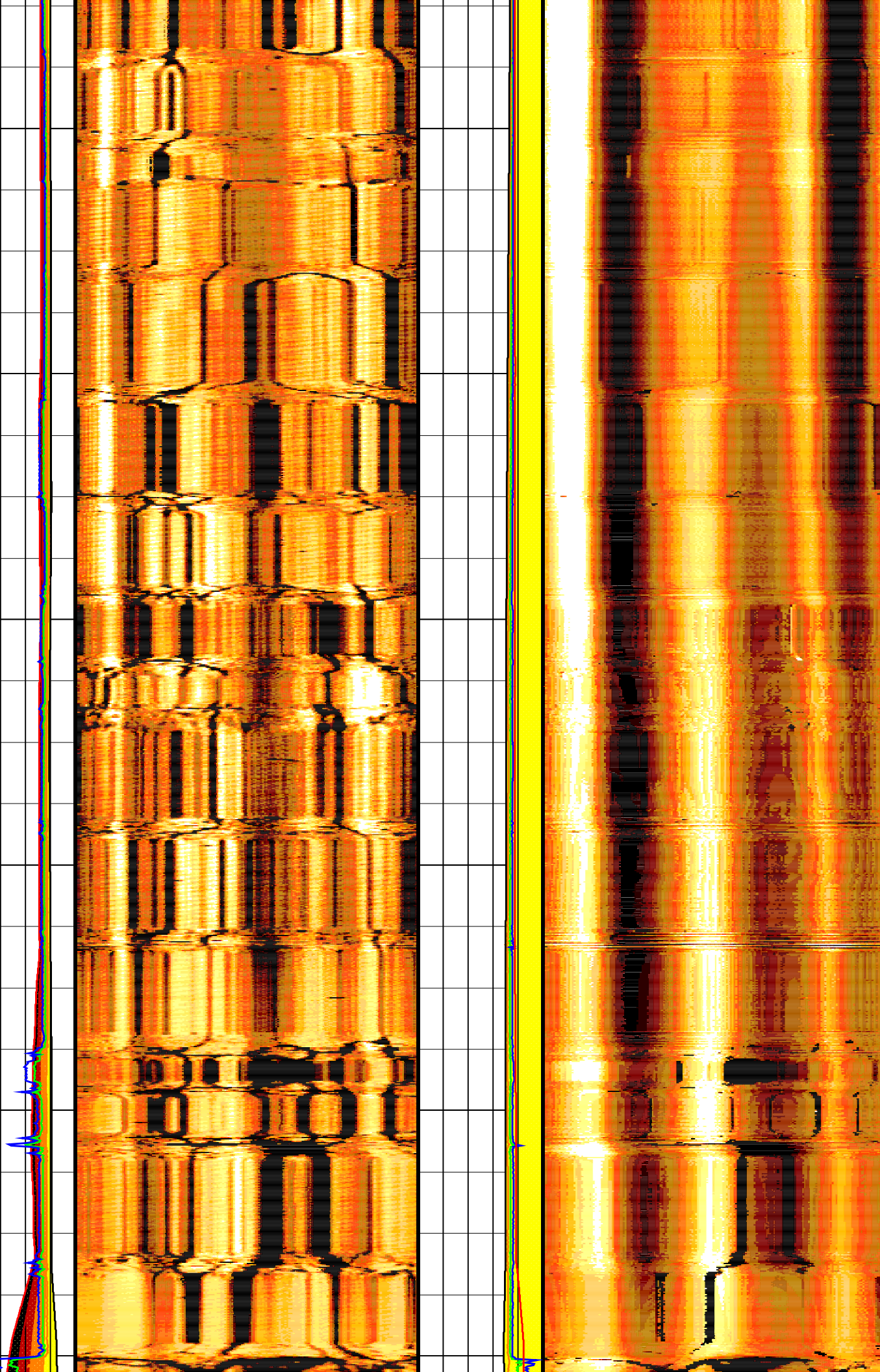
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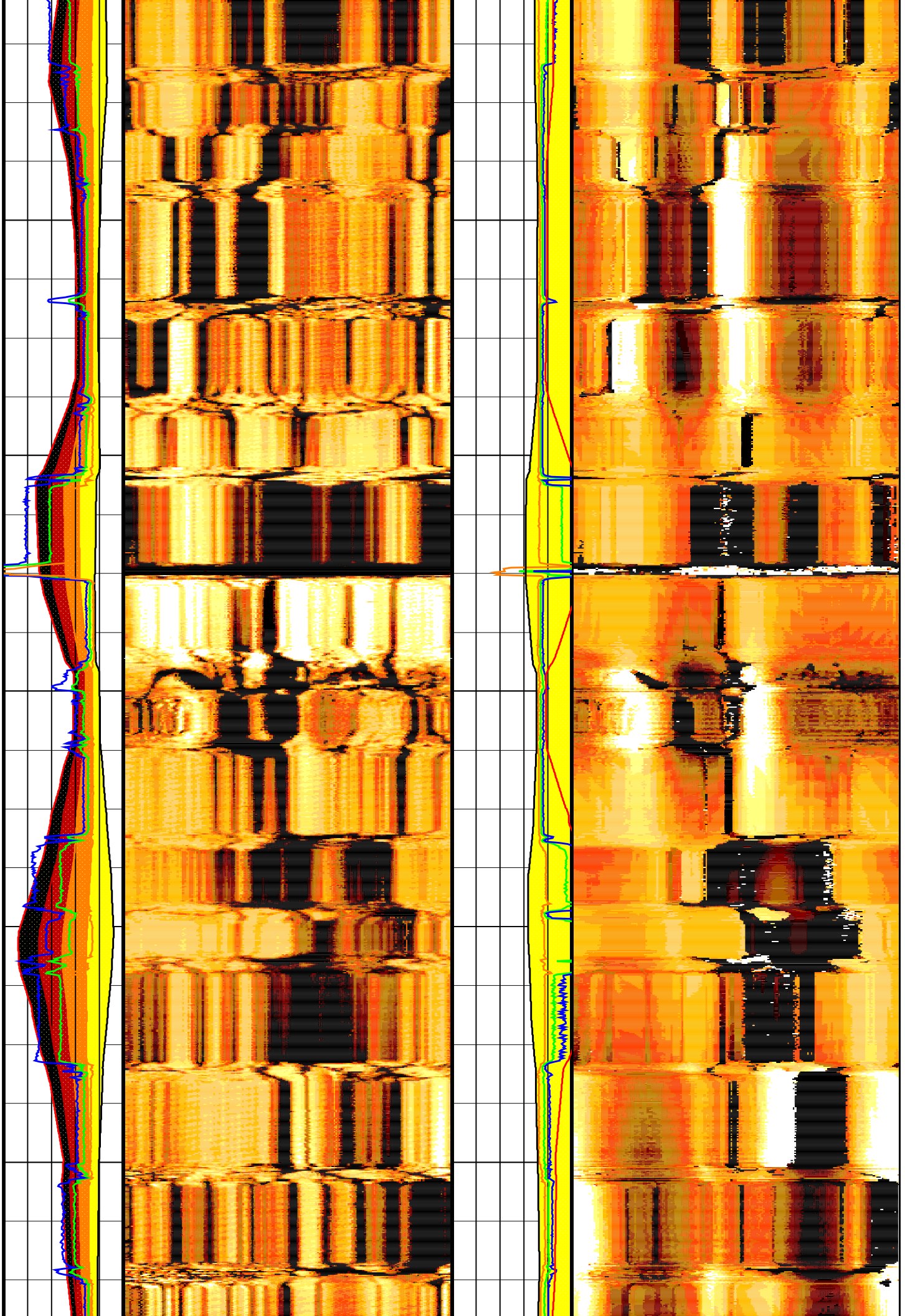
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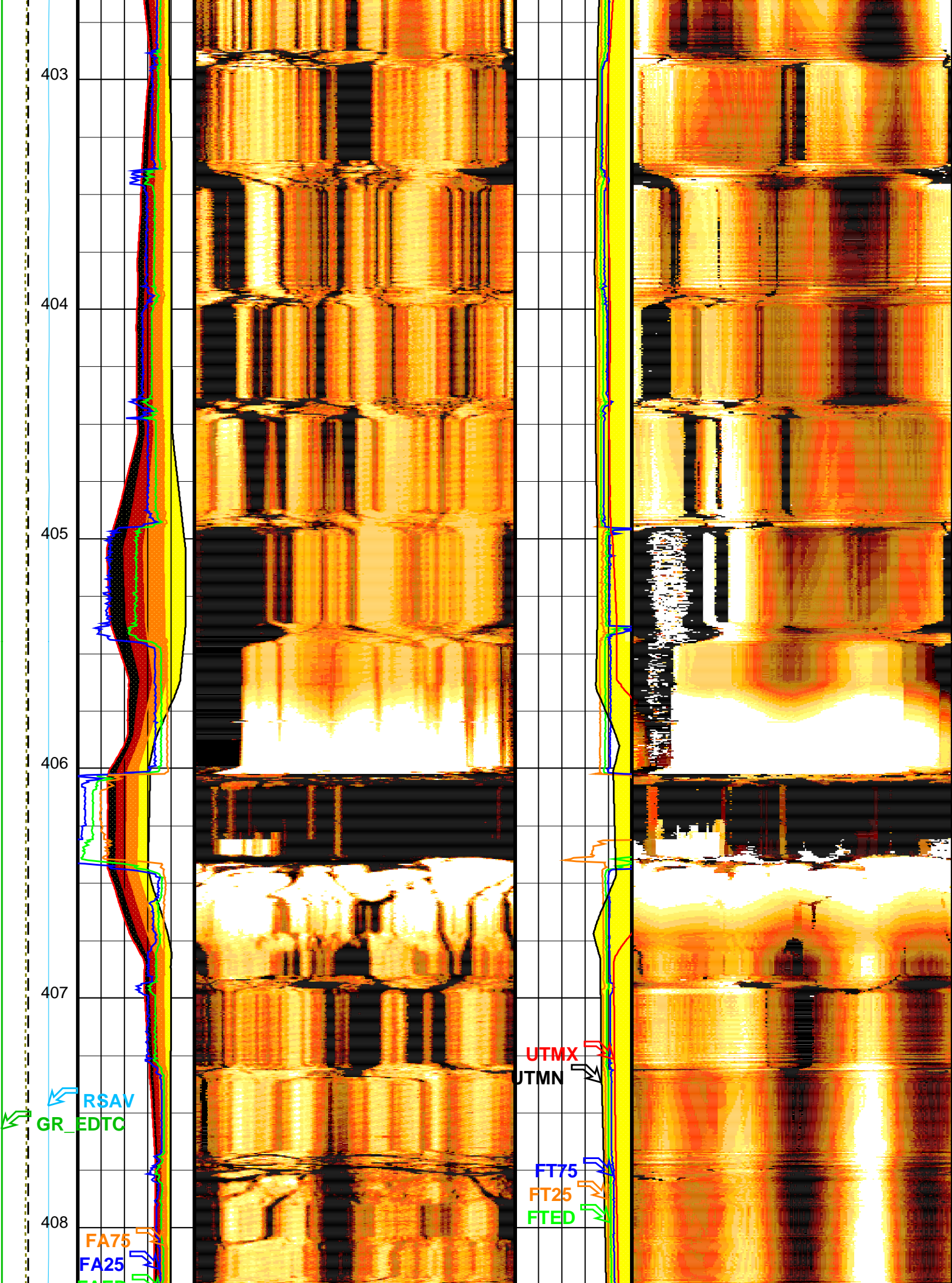
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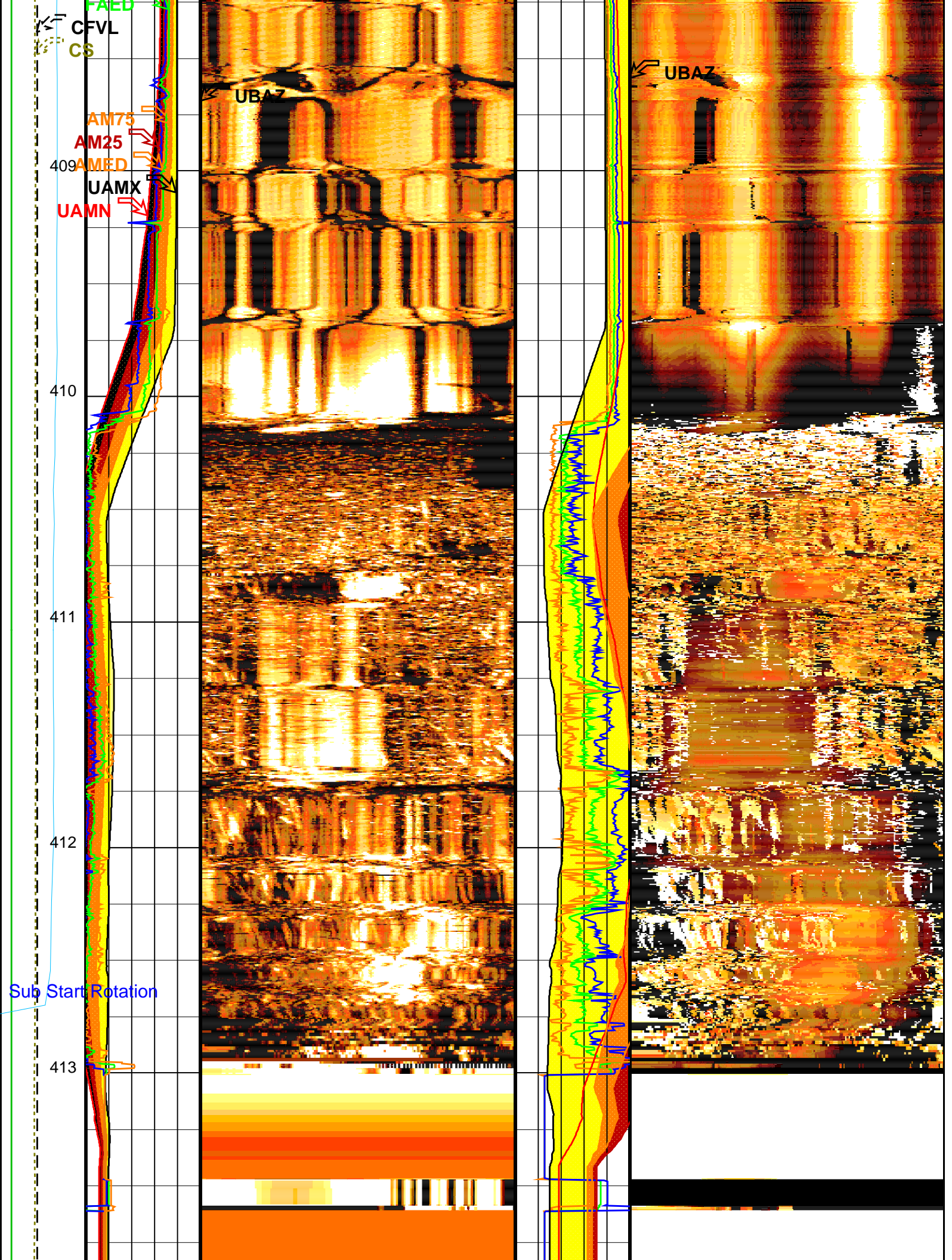
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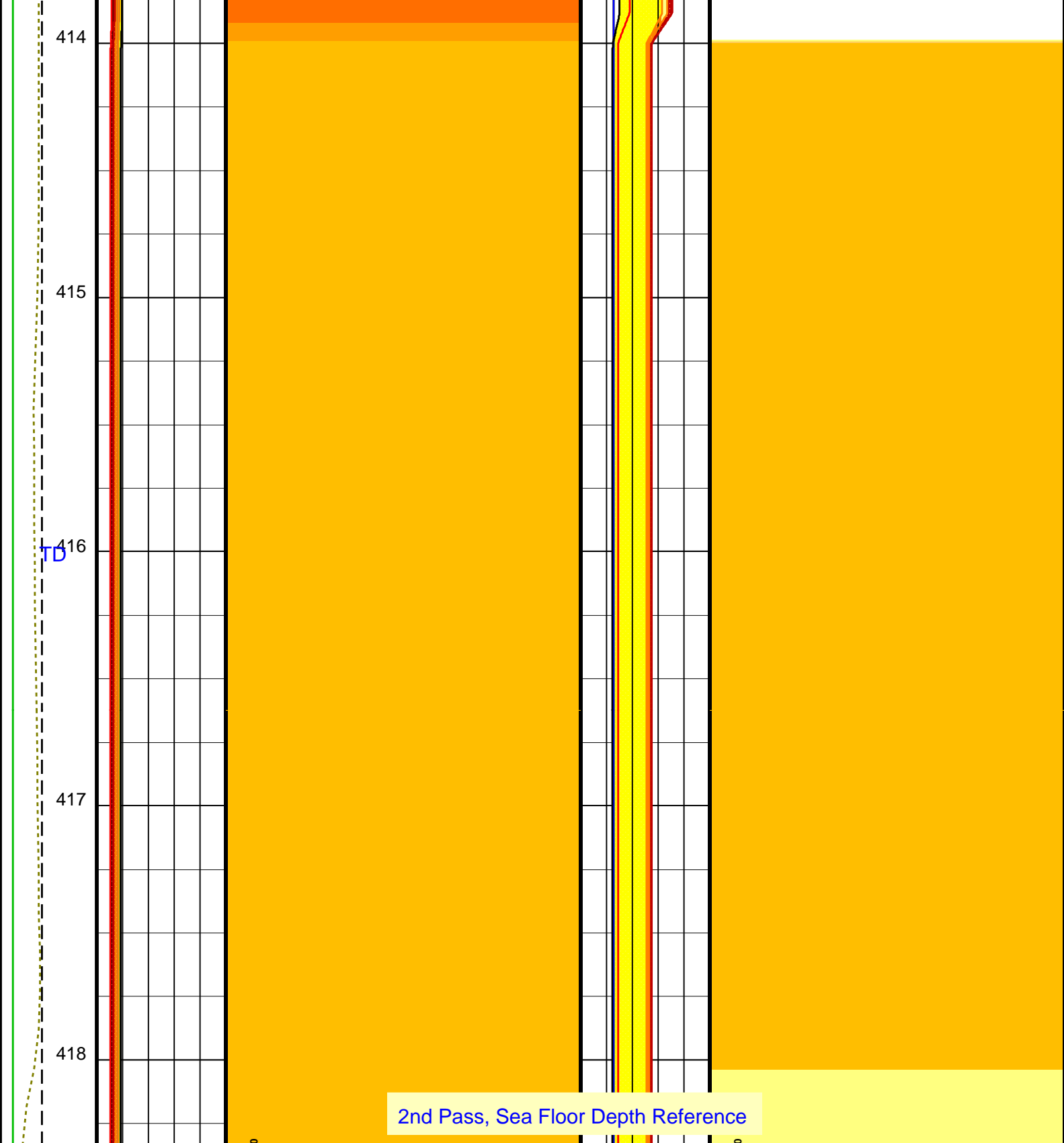
RSAV
GR_EDTC

FA75
FA25

UTMX
UTMN

FT75
FT25
FTED





2nd Pass, Sea Floor Depth Reference

<p>Rev. speed (RSAV) 6 (RPS) 8</p>	<p>LOW Amplitude (FA25) 0 (DB) 50</p>	<p>Corrected Amplitude (AWCN) (DB)</p> <p>-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</p>	<p>MEDIAN Radius (FTED) 3 (IN) 6</p>	<p>Corrected transit time (TTCN) (US)</p> <p>-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</p>
<p>Cable Speed (CS) (F/HR) 0 1000</p>	<p>Min. of Amplitude (UAMN) 0 (DB) 50</p>		<p>Radius LOW (FT25) 3 (IN) 6</p>	
<p>Fluid velocity (CFVL) (M/FT)</p>	<p>Maximum of Amplitude (UAMX)</p>		<p>Radius HIGH (FT75) 0 (IN) 0</p>	

(US/F)	0	(DB)	50
150	250		
Gamma Ray (GR_EDTC) (GAPI)	MEDIAN of Amplitude (FAED)		
0	75	0	50
	HIGH Amplitude (FA75)		
	0	0	50

3	(IN)	6
Radius min (UTMN)		
3	(IN)	6
Radius max (UTMX)		
3	(IN)	6

Format: UBI_Image Vertical Scale: 1:20 Graphics File Created: 11-Dec-2012 04:13

OP System Version: 19C0-187

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

Parameters

DLIS Name	Description	Value
UBI-D: Ultrasonic Borehole Imager - D		
	Vertical Resolution	IN: 0.4
	Default Fluid Velocity	206 US/F
	UBI Tool Working Mode for FPM	UBI3_SW250_180_1
	UBI Tool Working Mode for Measurement	UBI3_SW250_180_1
AAMN	Automatic Amplitude Minimum Scale	2 DB
AGMN	Minimum Gain of Cartridge	-12DB
AGMX	Maximum Gain of Cartridge	48DB
AMCM	Amplitude - max color scale minimum	-6 DB
AMCX	Amplitude - max color scale maximum	0.2 DB
ANGO	Angular Offset	-17 DEG
ATMN	Automatic Transit Time Minimum Scale	2 US
AWMN	Amplitude Color Scale Minimum	20 DB
AWMX	Amplitude Color Scale Maximum	55 DB
CACN	Corrected Amplitude Color Scale Minimum	0 DB
CACX	Corrected Amplitude Color Scale Maximum	50 DB
CRCN	Corrected Radii Color Scale Minimum	3 IN
CRCX	Corrected Radii Color Scale Maximum	4.5 IN
CSID	Casing Inner Diameter	0 IN
DCMN	Window Decrement Down	0.8
DCMX	Window Decrement Up	0.6
DFVL	Default Fluid Velocity	193 US/F
DISI	Radial Plot Depth Increment	120
DISR	Radial Plot Display Requested	0
DOT	Diameter of Tool	1.85 IN
ECRL	Eccentering Correction Level	FIRST
EMXV	EMEX Voltage	50 V
ERDB	Eccentering Rejection	12 DB
FDOS	FVEL Depth Offset	0 M
FMOS	FVEL Measurement Offset	0 US/F
FVLM	Fluid Velocity Filter	MEAN
GCSW	Gain Correction	ON
HFLT	FVEL Filter Size	10
ICMN	Internal Corrosion Color Scale Minimum	-0.15 IN
ICMX	Internal Corrosion Color Scale Maximum	0.15 IN
IMAR	Image Rotation	OFF
INH1	FIFO Inhibition Time	Inh_29us
LIM1	Minimum Limit Control	AUTO
LIM2	Maximum Limit Control	MANUAL
MLCN	Metal Loss Color Scale Minimum	-0.15 IN
MLCX	Metal Loss Color Scale Maximum	0.15 IN
NBCD	Color Correction Depth Level	80
NBLD	Eccentering Correction Depth Level	1
NCDI	Noise Correction Depth Interval	30
PNSW	Processing Noise Correction	ON
RC50	Reference Calibrator Standoff	0.795 IN
RJ60	60 Hz Correction	ON
RRCN	Radii Color Scale Minimum	3 IN
RRCX	Radii Color Scale Maximum	4.5 IN
SUBT	UBI Sub type	Sub_5_inch_S
SWLV	Sliding Window Minimum	Inh_18us
SWMY	Sliding Window Maximum	Inh_167us

UBI_USAC_ALLOW	UBI USAC Allow Task after Power Up	YES	
UBI_USAC_TASK_TIMEOUT	UBI USAC Task Timeout (in seconds) FOR TEST REPORT	600	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
UMFR	Modulation Frequency	500000	HZ
UPAT	Emission Pattern	Pattern_250K	
USFR	Sampling Frequency	1e+006	HZ
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI3_SW250_180_1	
VERR	acq VERTical Resolution	IN: 0.2	
WFVS	Vertical Sampling	0.2	IN
WINB	Window Beginning Time	18.5	US
WINE	Window end time	36	US

GPIT-A/B: General Purpose Inclinator

ACPP	Accelerometer PROM Presence	PRESENT	
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ART	Accelerometer Reference Temperature	20	DEGC
GLM	GPIT Logging Mode	DIPM	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MAPP	Magnetometer PROM Presence	PRESENT	
MDEC	Magnetic Field Declination	-0.785248	DEG
MRTE	Magneto Reference Temperature	19	DEGC
TEMS	GPIT Temperature Sensor Used	BOTH	
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO	

HRLT-B: High Resolution Laterolog Array - B

BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	30.2229	DEGC
FREQ0	HRLT Frequency Index for Mode 0	32	
FREQ1	HRLT Frequency Index for Mode 1	128	
FREQ2	HRLT Frequency Index for Mode 2	104	
FREQ3	HRLT Frequency Index for Mode 3	86	
FREQ4	HRLT Frequency Index for Mode 4	56	
FREQ5	HRLT Frequency Index for Mode 5	44	
FREQ6	HRLT Frequency Index for Mode 6	116	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
LOOPCOEF_S	HRLT Loop Coefficient for Shallow Modes	LOW	
LOOPMOD0	HRLT Mode 0 Loop Mode	AUTO	
LOOPMOD1	HRLT Mode 1 Loop Mode	AUTO	
LOOPMOD2	HRLT Mode 2 Loop Mode	AUTO	
LOOPMOD3	HRLT Mode 3 Loop Mode	AUTO	
LOOPMOD4	HRLT Mode 4 Loop Mode	AUTO	
LOOPMOD5	HRLT Mode 5 Loop Mode	AUTO	
LOOPMOD6	HRLT Mode 6 Loop Mode	AUTO	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROGINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMFO	Mechanical Standoff Fin Size	0	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSPO	Sonde Position	Centered	
SHT	Surface Hole Temperature	30	DEGC

HLDS: Hostile Litho-Density Sonde

CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
MDEN	Matrix Density	2.71	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000	
PSDS	HLDS SS Pulse Shape Compensation DAC	30000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	

HNGS-BA: Hostile Natural Gamma Ray Sonde

BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	

BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00235707	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	30	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.05984	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03642	

EDTC-B: Enhanced DTS Cartridge

BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	30	DEGC
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	

UHSV: UBI Hole Shape Analysis

	Vertical Resolution	IN: 0.4	
	Default Fluid Velocity	206	US/F
	UBI Tool Working Mode for FPM	UBI3_SW250_180_1	
	UBI Tool Working Mode for Measurement	UBI3_SW250_180_1	
AAMN	Automatic Amplitude Minimum Scale	2	DB
AGMN	Minimum Gain of Cartridge	-12DB	
AGMX	Maximum Gain of Cartridge	48DB	
AMCM	Amplitude - max color scale minimum	-6	DB
AMCX	Amplitude - max color scale maximum	0.2	DB
ANGO	Angular Offset	-17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
AWMN	Amplitude Color Scale Minimum	20	DB
AWMX	Amplitude Color Scale Maximum	55	DB
CACN	Corrected Amplitude Color Scale Minimum	0	DB
CACX	Corrected Amplitude Color Scale Maximum	50	DB
CRCN	Corrected Radii Color Scale Minimum	3	IN
CRCX	Corrected Radii Color Scale Maximum	4.5	IN
CSID	Casing Inner Diameter	0	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	193	US/F
DISI	Radial Plot Depth Increment	120	
DISR	Radial Plot Display Requested	0	
DOT	Diameter of Tool	1.85	IN
ECRL	Eccentering Correction Level	FIRST	
EMXV	EMEX Voltage	50	V
ERDB	Eccentering Rejection	12	DB

FDOS	FVEL Depth Offset	0	M
FMOS	FVEL Measurement Offset	0	US/F
FVLM	Fluid Velocity Filter	MEAN	
GCSW	Gain Correction	ON	
HFLT	FVEL Filter Size	10	
ICMN	Internal Corrosion Color Scale Minimum	-0.15	IN
ICMX	Internal Corrosion Color Scale Maximum	0.15	IN
IMAR	Image Rotation	OFF	
INHT	FIFO Inhibition Time	Inh_29us	
LIM1	Minimum Limit Control	AUTO	
LIM2	Maximum Limit Control	MANUAL	
MLCN	Metal Loss Color Scale Minimum	-0.15	IN
MLCX	Metal Loss Color Scale Maximum	0.15	IN
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	
RRCN	Radii Color Scale Minimum	3	IN
RRCX	Radii Color Scale Maximum	4.5	IN
SUBT	UBI Sub type	Sub_5_inch_S	
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
UMFR	Modulation Frequency	500000	HZ
UPAT	Emission Pattern	Pattern_250K	
USFR	Sampling Frequency	1e+006	HZ
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI3_SW250_180_1	
VERR	acq VERTical Resolution	IN: 0.2	
WFVS	Vertical Sampling	0.2	IN
WINB	Window Beginning Time	18.5	US
WINE	Window end time	36	US

System and Miscellaneous

ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	10.750	IN
CWEI	Casing Weight	43.00	LB/F
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	-2469.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	2970	M
TDD	Total Depth - Driller	2941.00	M
TDL	Total Depth - Logger	2945.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Input DLIS Files

DEFAULT	UBI_HRLA_LDL_NGS_025LUP	FN:30	PRODUCER	10-Dec-2012 05:11	2887.2 M	2779.5 M
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Output DLIS Files

DEFAULT	UBI_HRLA_LDL_NGS_060PUP	FN:79	PRODUCER	11-Dec-2012 04:13		
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Company: Lamont Doherty

Well: Expedition 344, Site U1414A

Input DLIS Files

DEFAULT	UBI_HRLA_LDL_NGS_024LUP	FN:28	PRODUCER	10-Dec-2012 03:45	2884.9 M	2608.6 M
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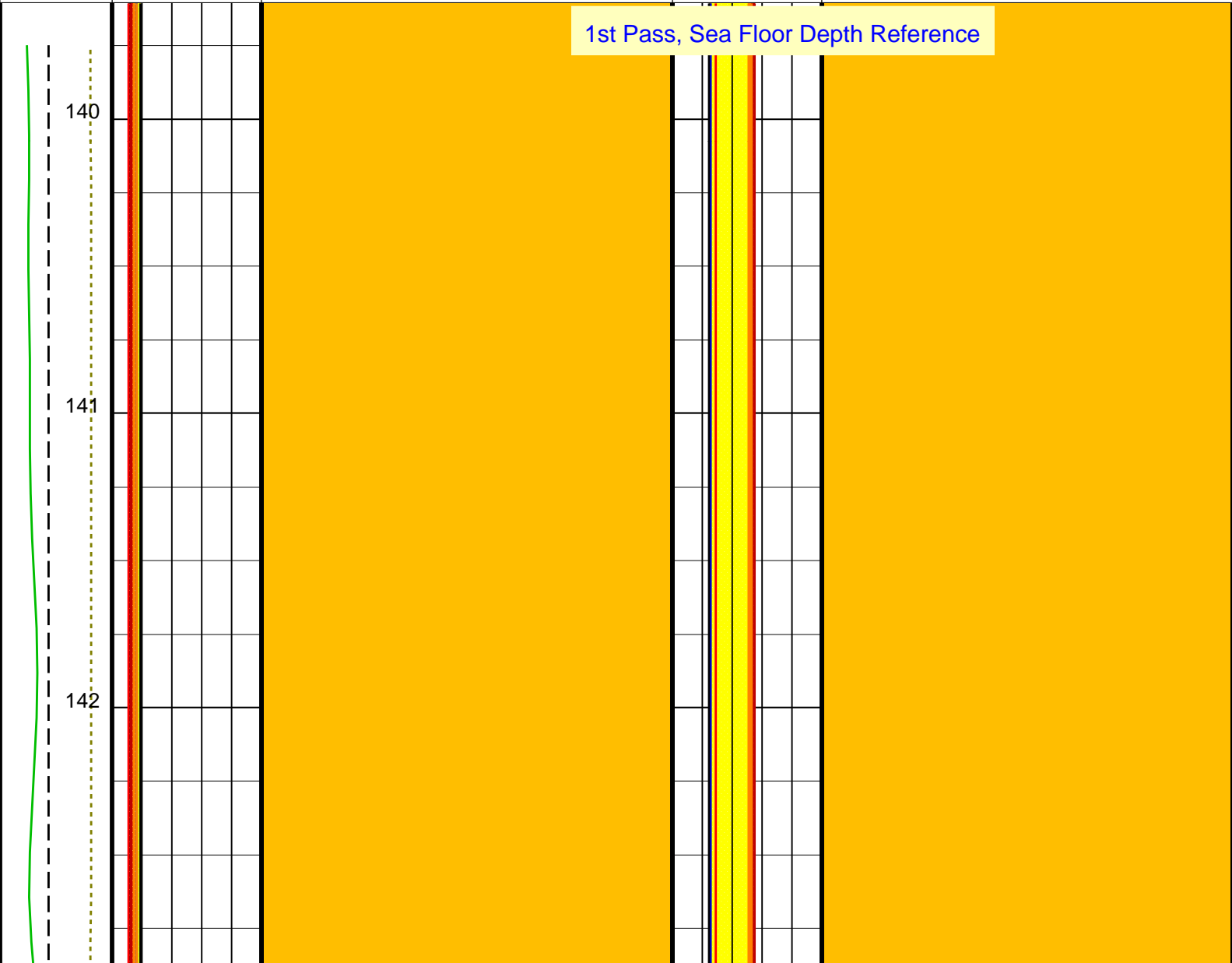
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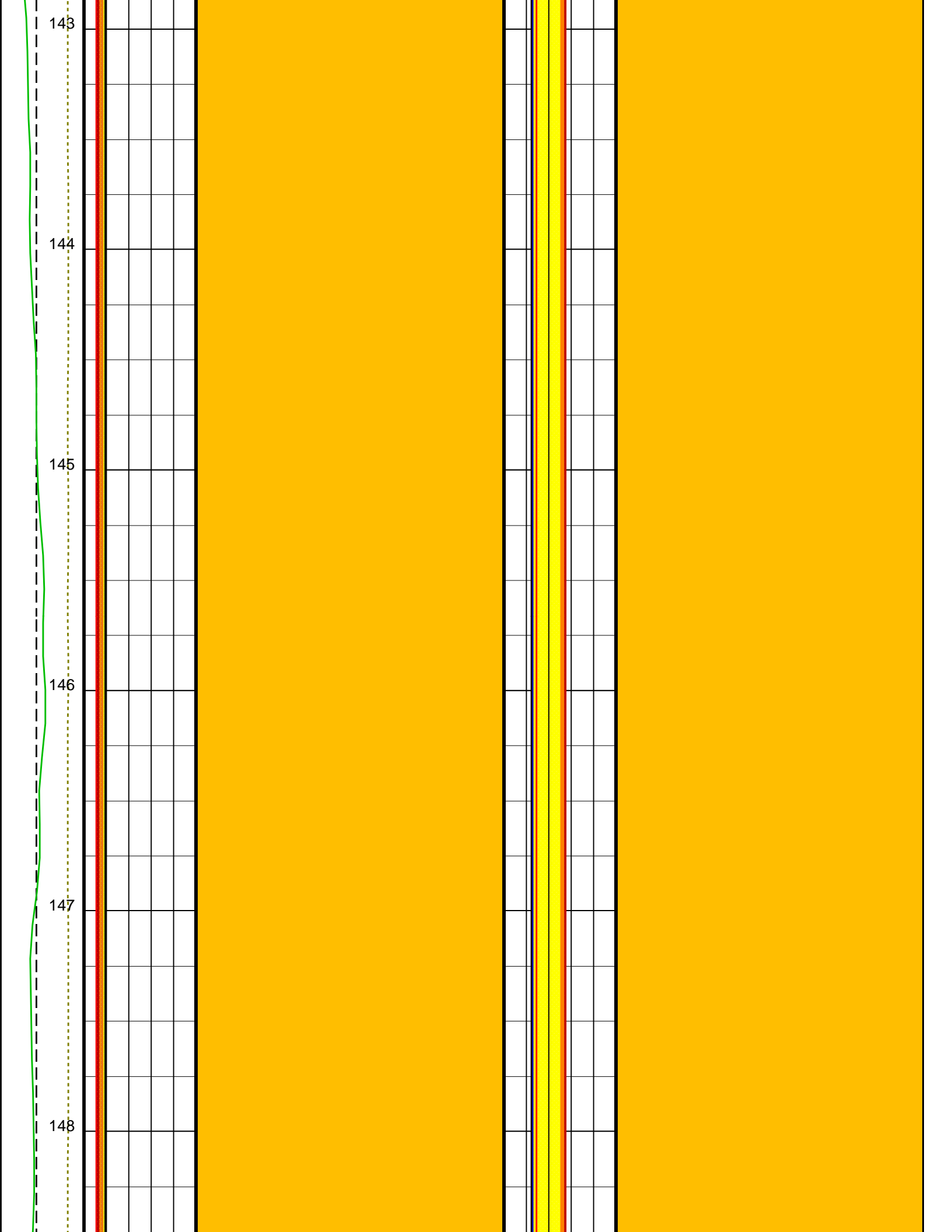
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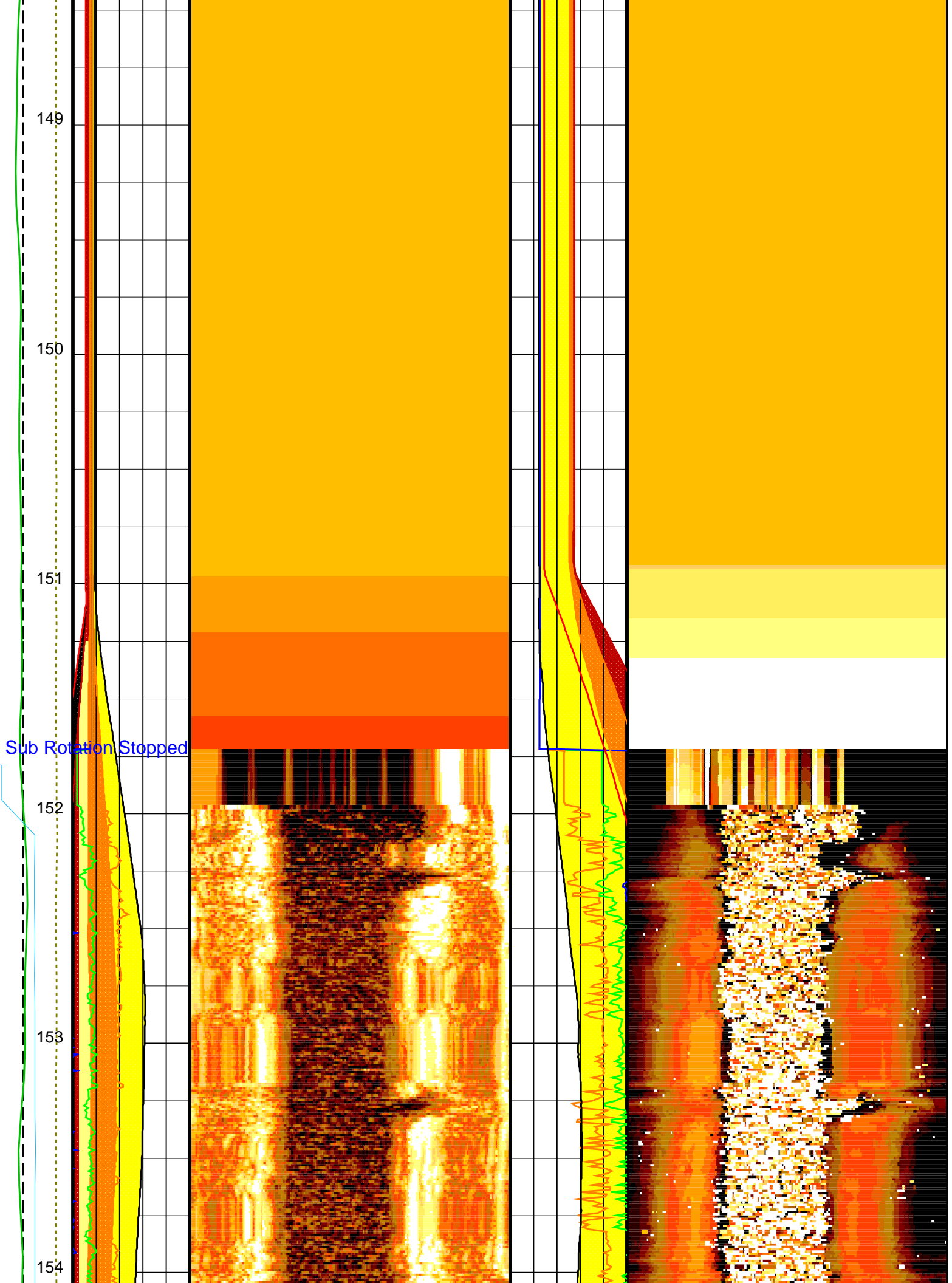
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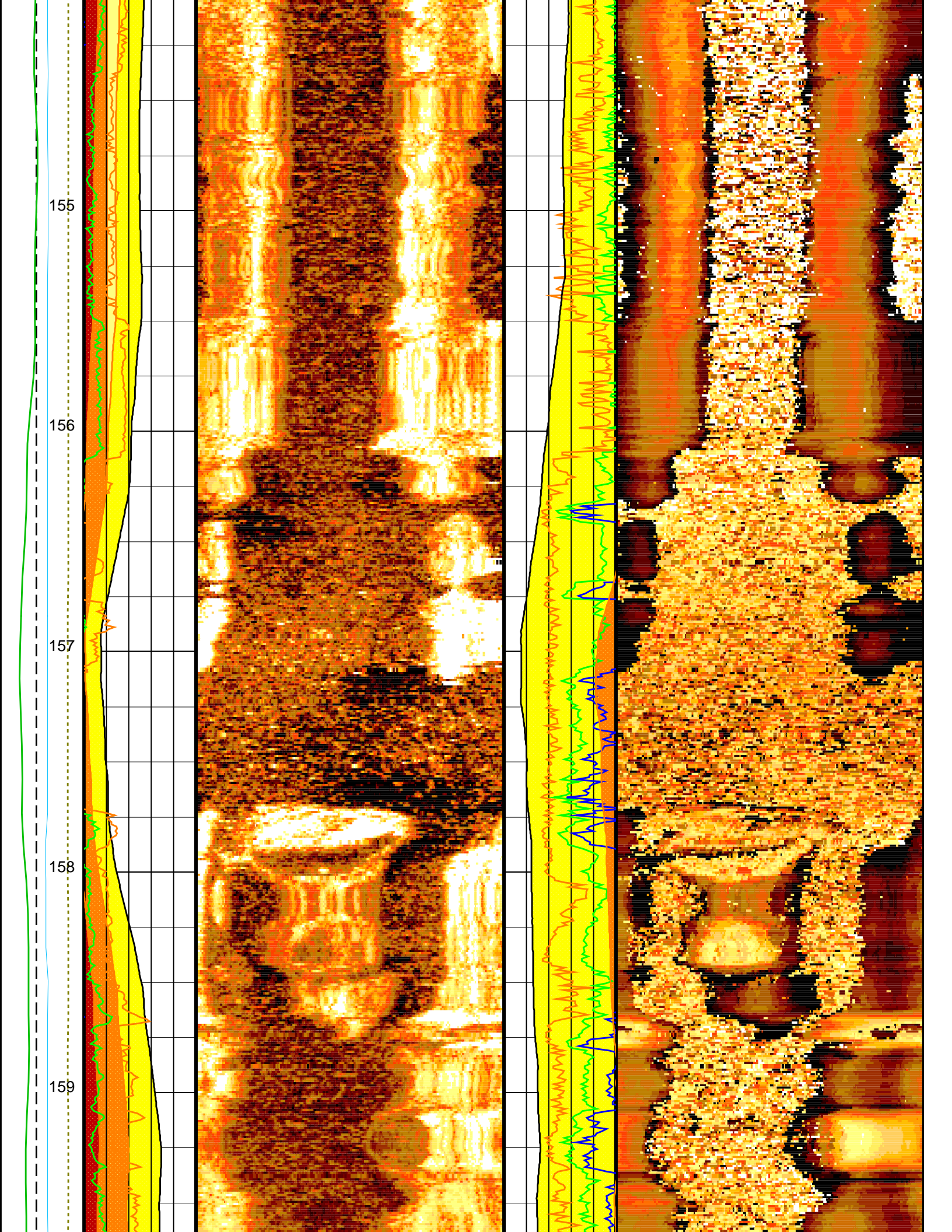
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DTA-A	19C0-187	HRLT-B	19C0-187

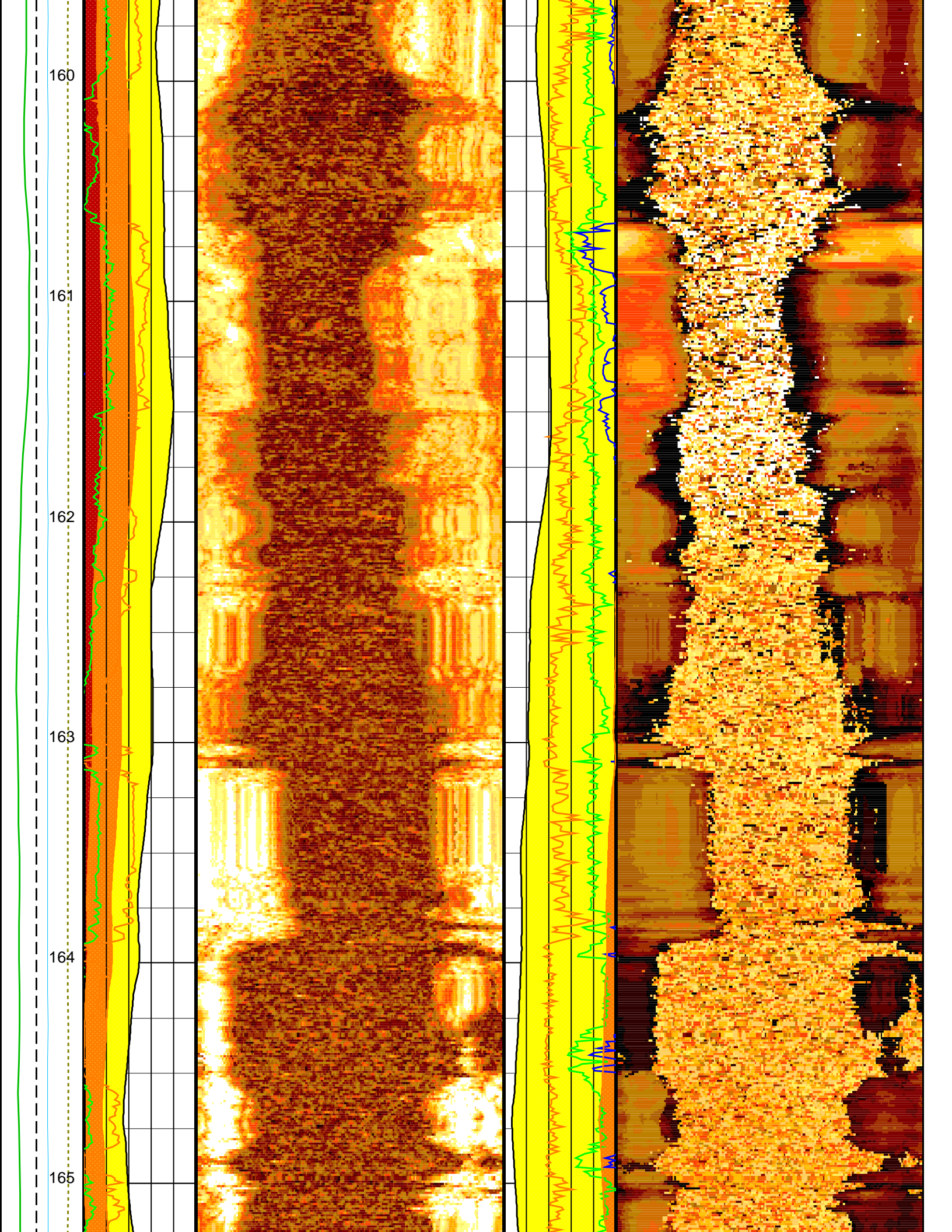
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Gamma Ray (GR_EDTC) (GAPI) 0 75	MEDIAN of Amplitude (FAED) 0 (DB) 50		Radius min (UTMN) 3 (IN) 6	
Fluid velocity (CFVL) (US/F) 150 250	Maximum of Amplitude (UAMX) 0 (DB) 50		Radius HIGH (FT75) 3 (IN) 6	
Cable Speed (CS) (F/HR) 0 1000	Min. of Amplitude (UAMN) 0 (DB) 50		Radius LOW (FT25) 3 (IN) 6	
Rev. speed (RSAV) (RPS) 6 8	LOW Amplitude (FA25) 0 (DB) 50	<p>Corrected Amplitude (AWCN) (DB)</p>	<p>MEDIAN Radius (FTED) (IN)</p>	<p>Corrected transit time (TTCN) (US)</p>

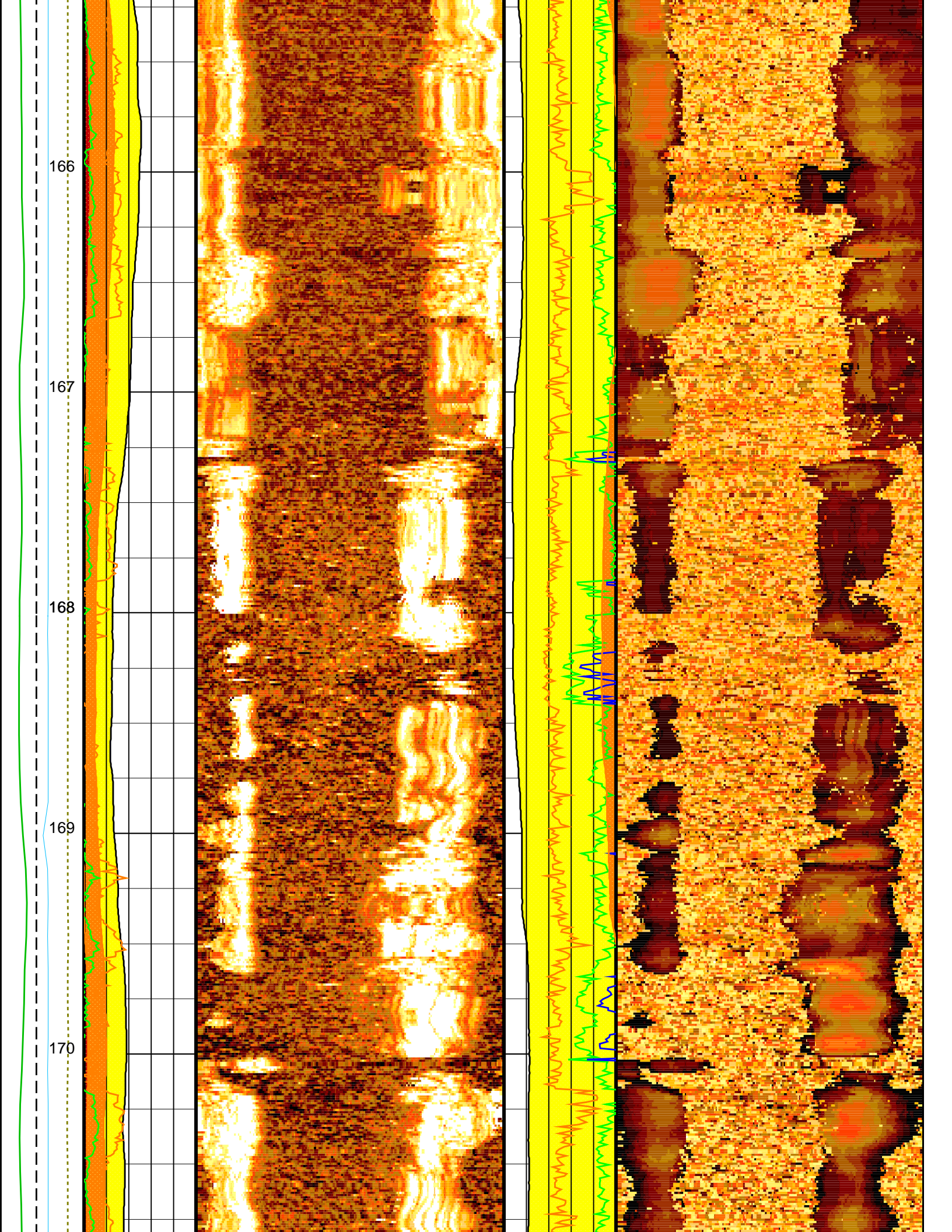


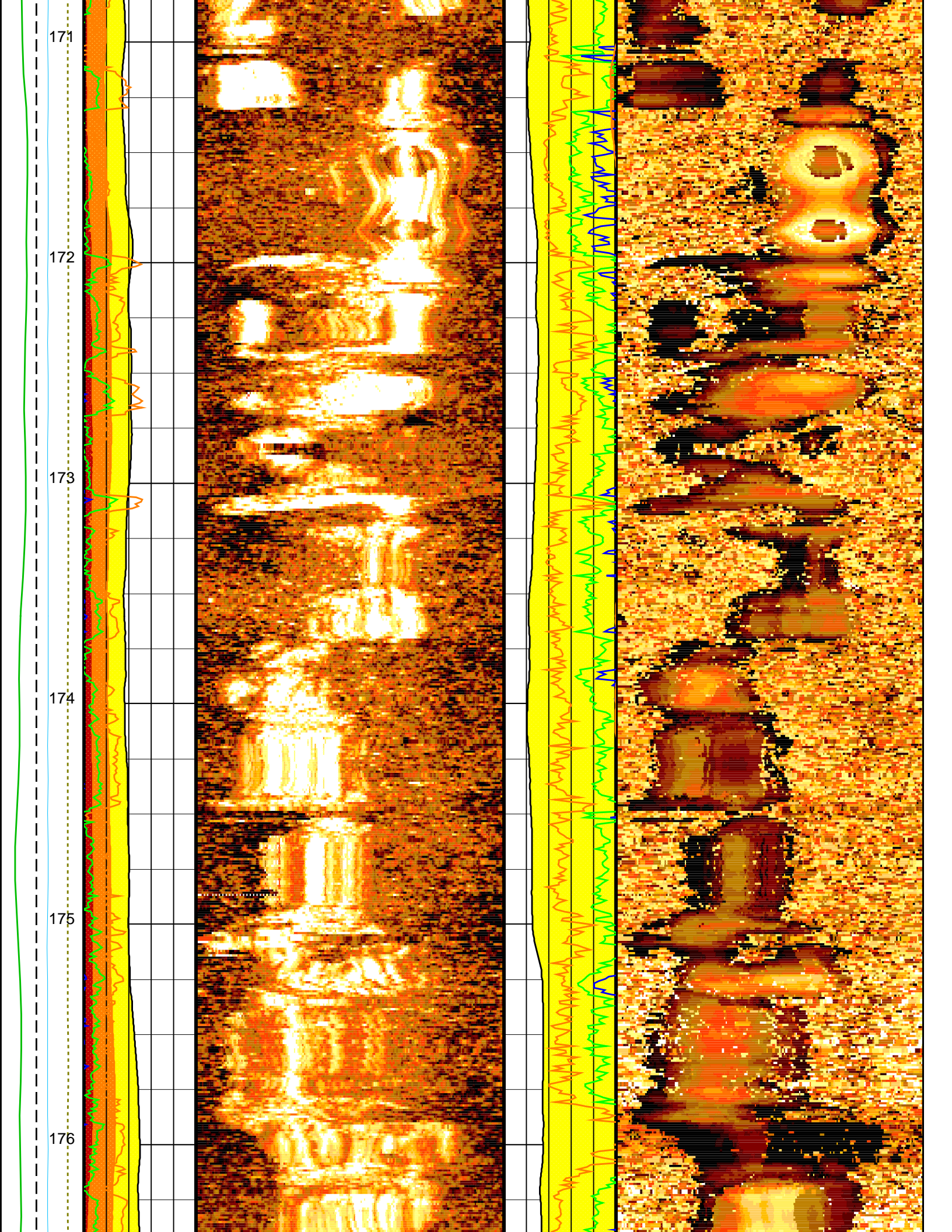


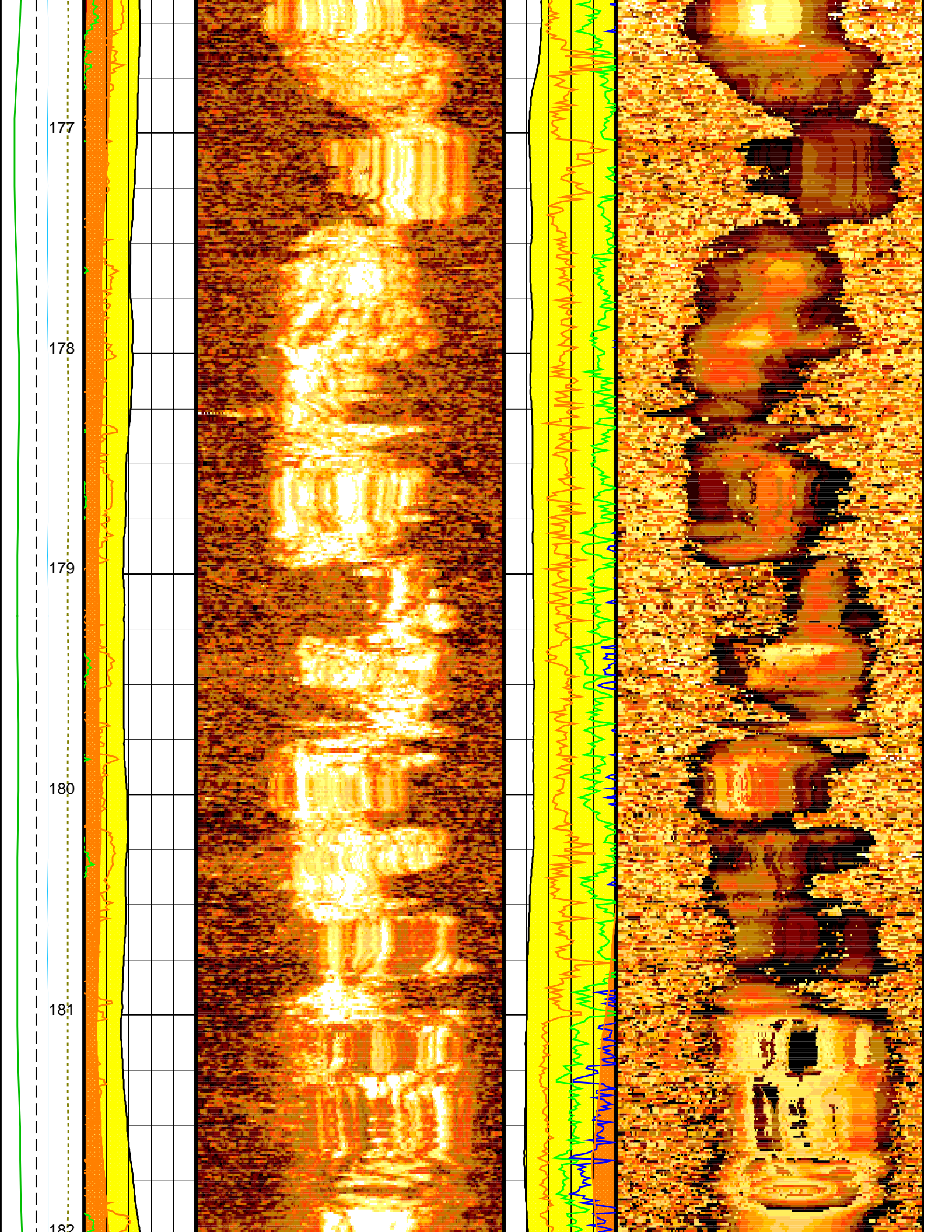


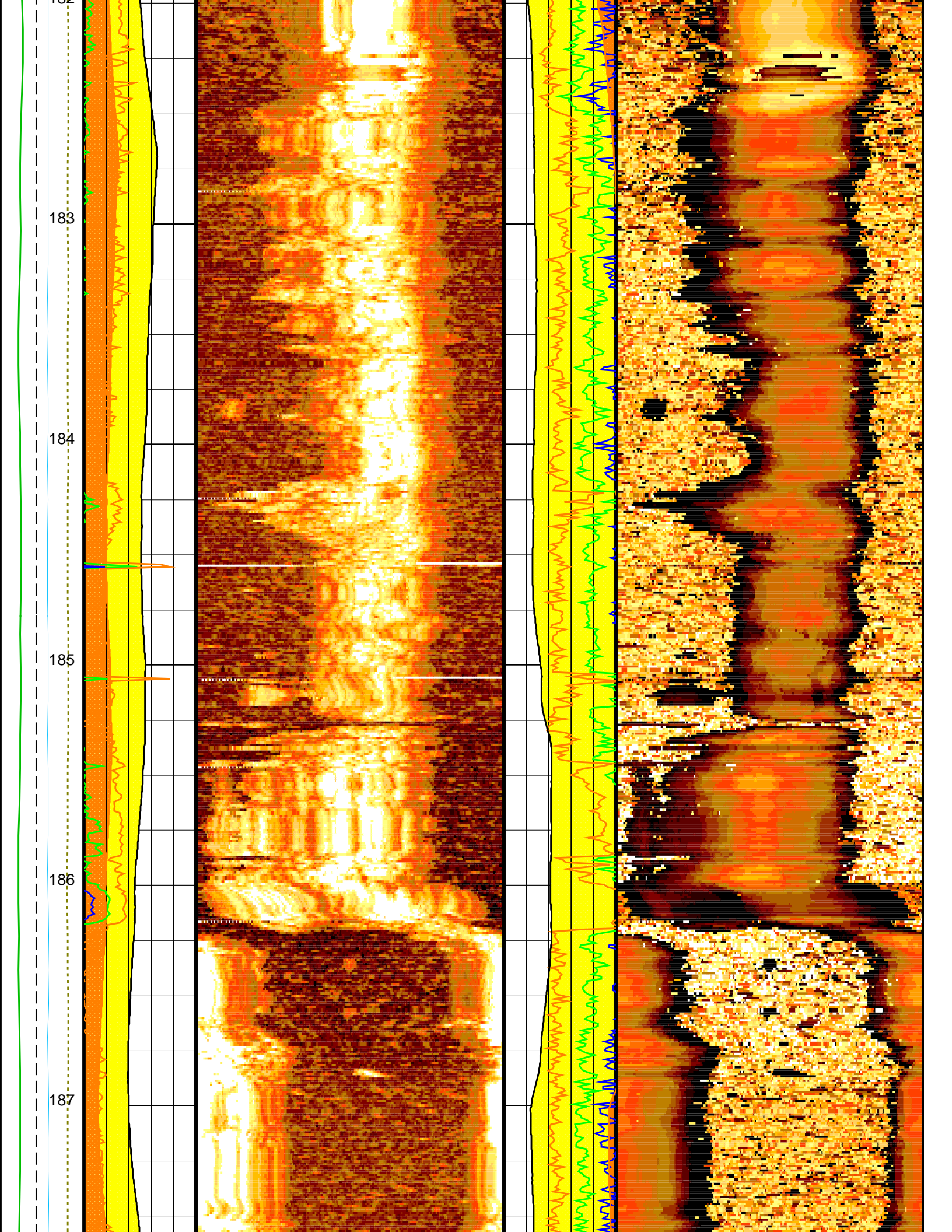


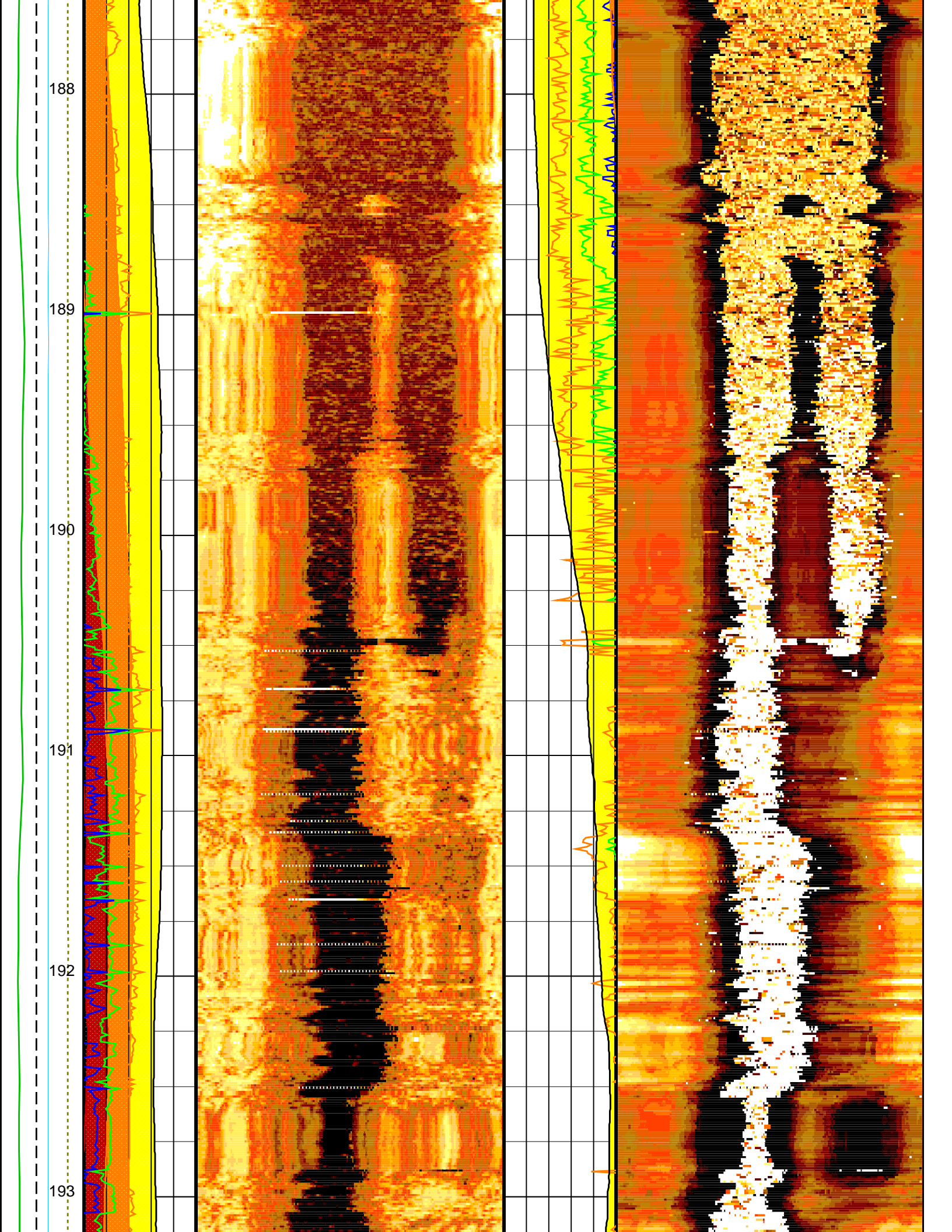


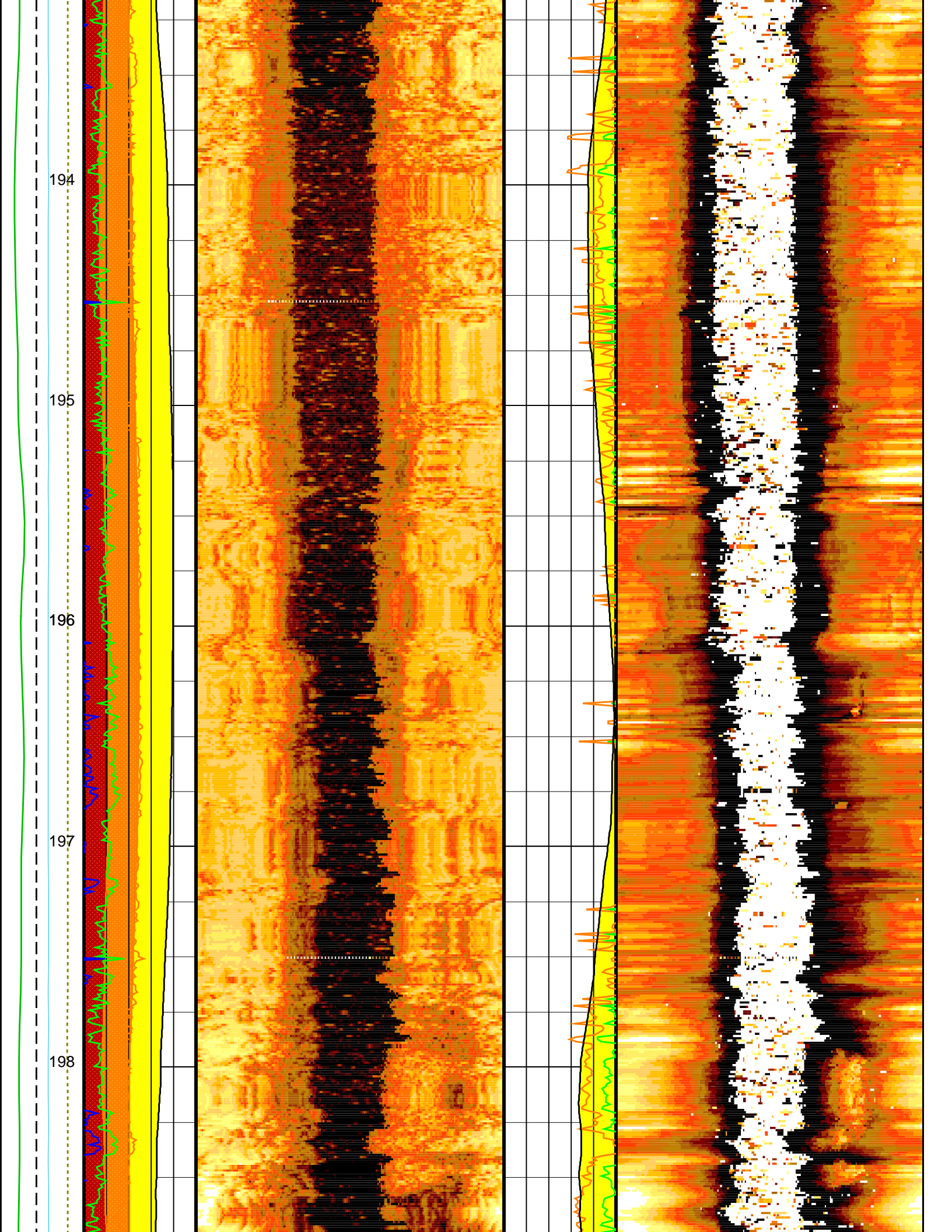












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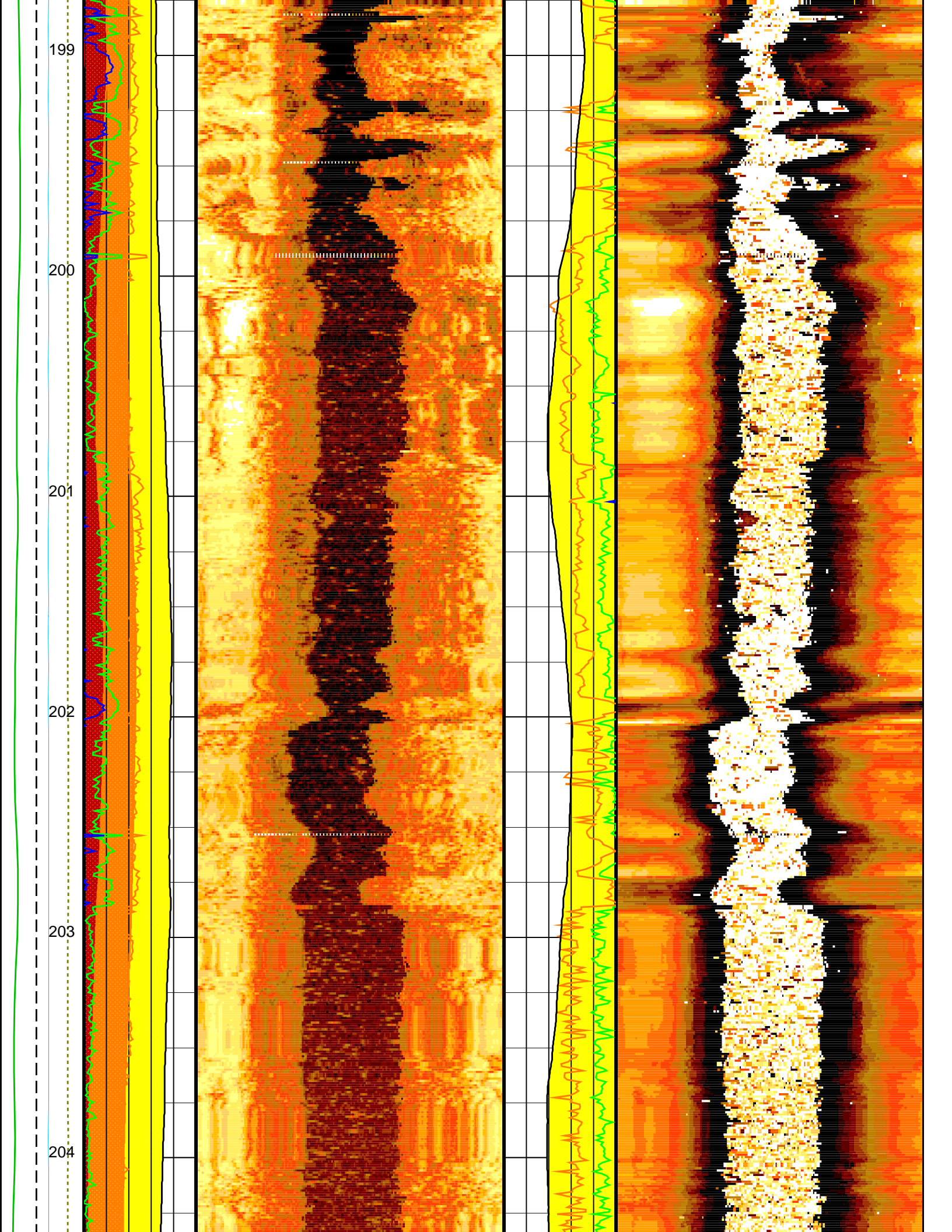
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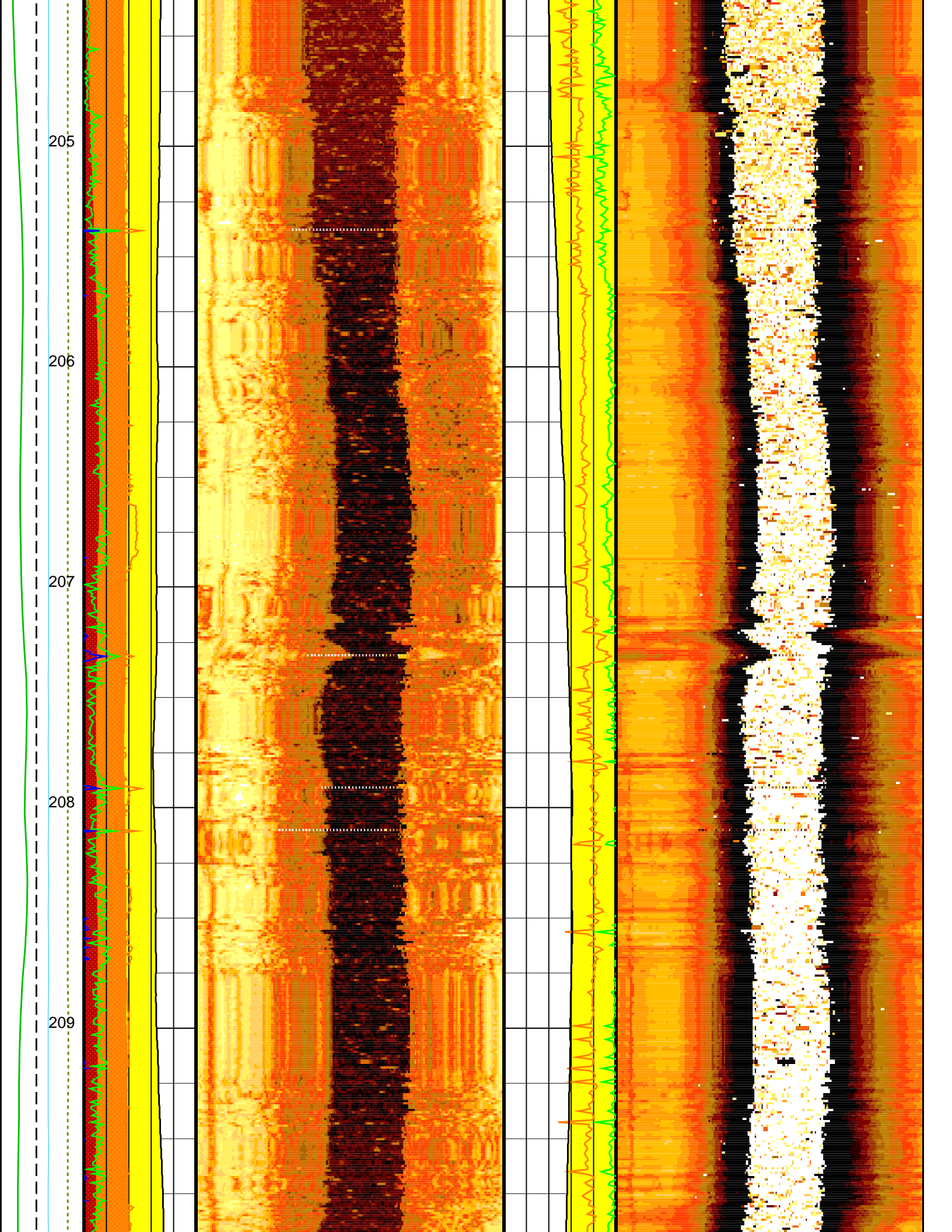
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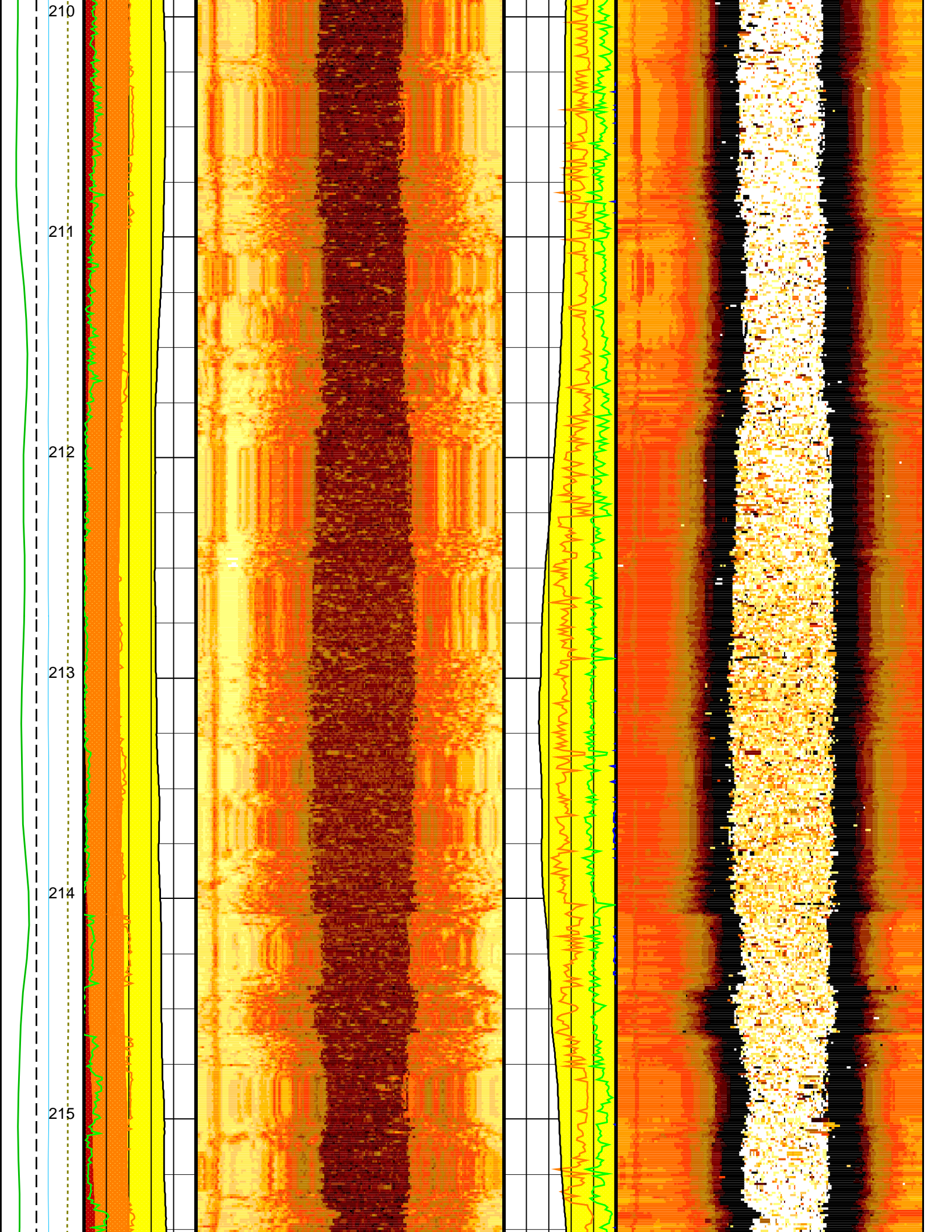
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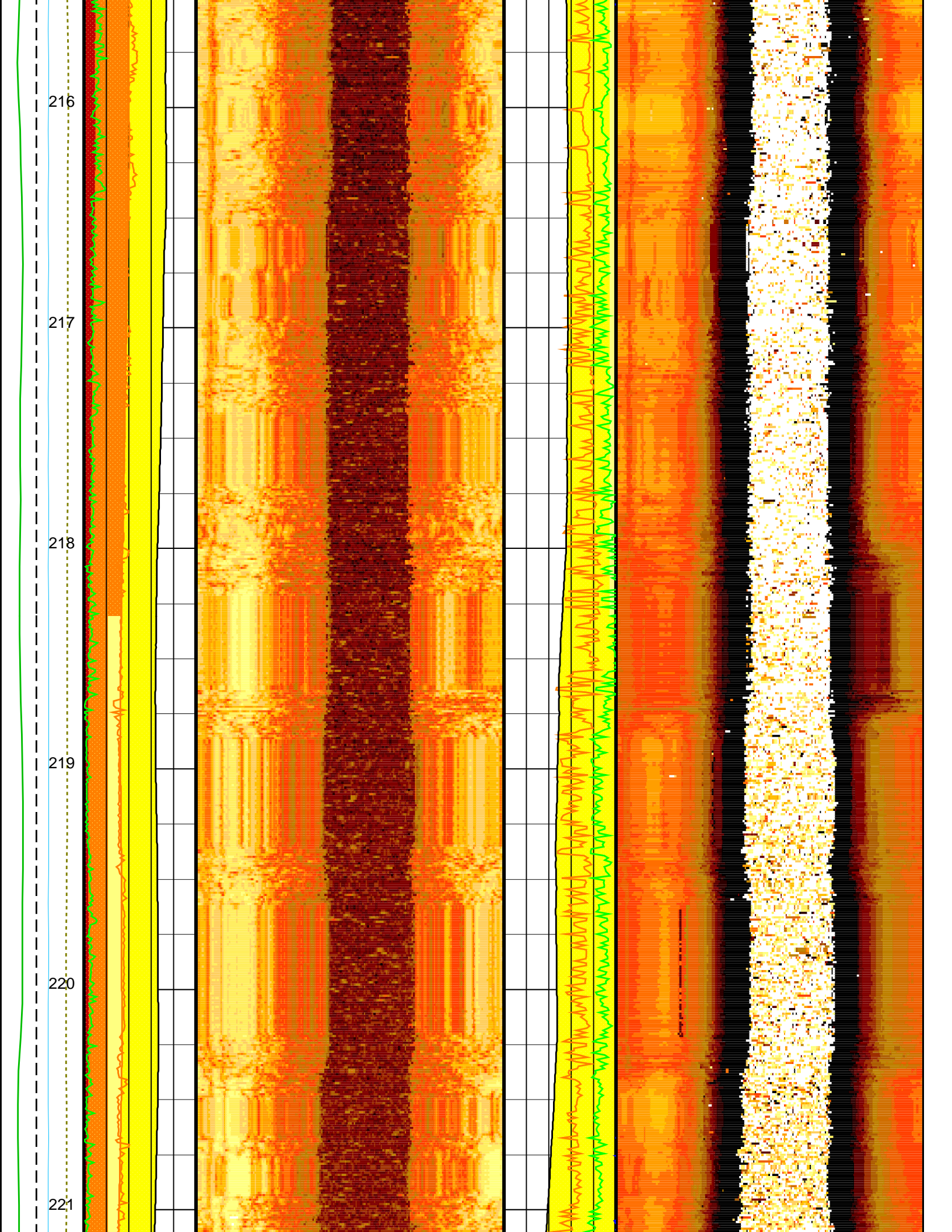
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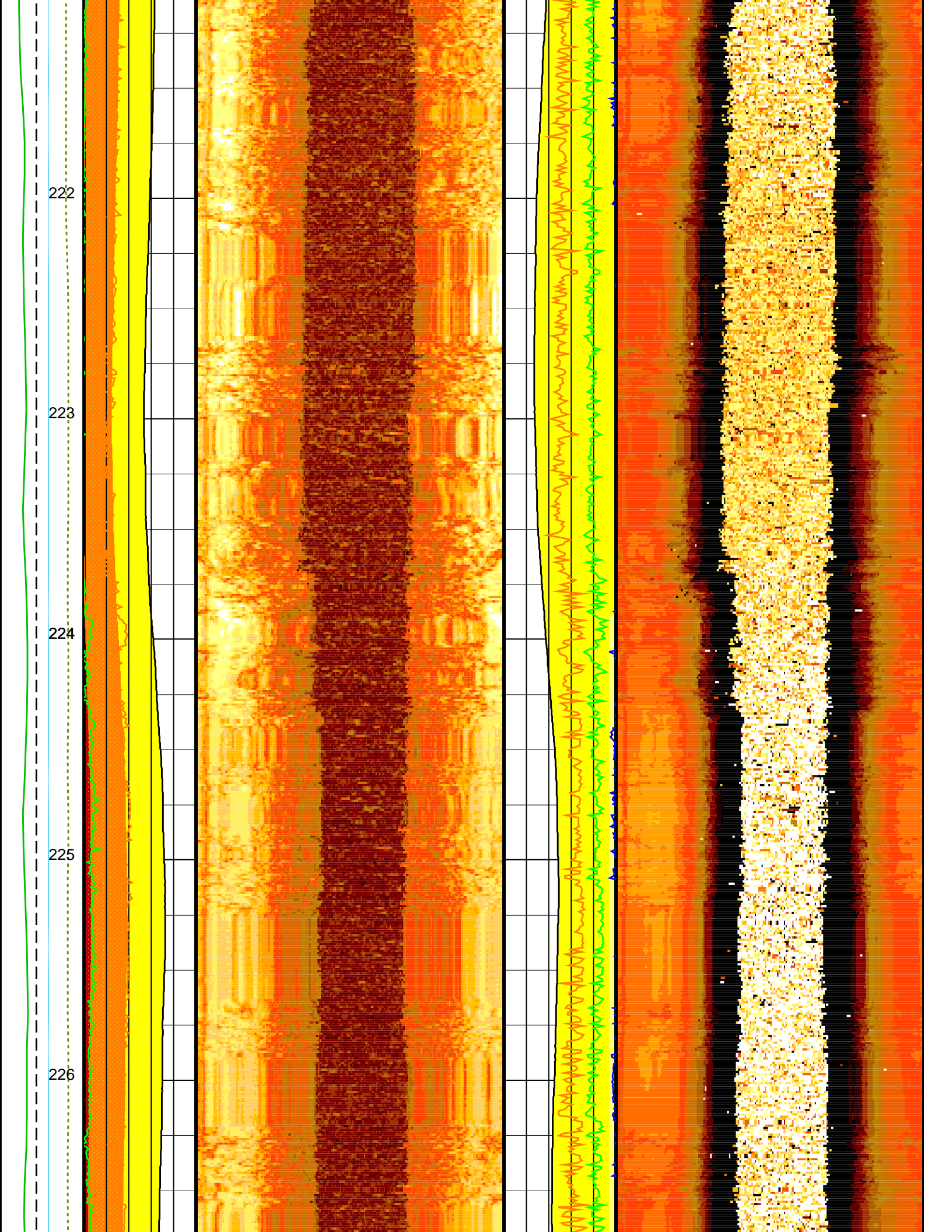
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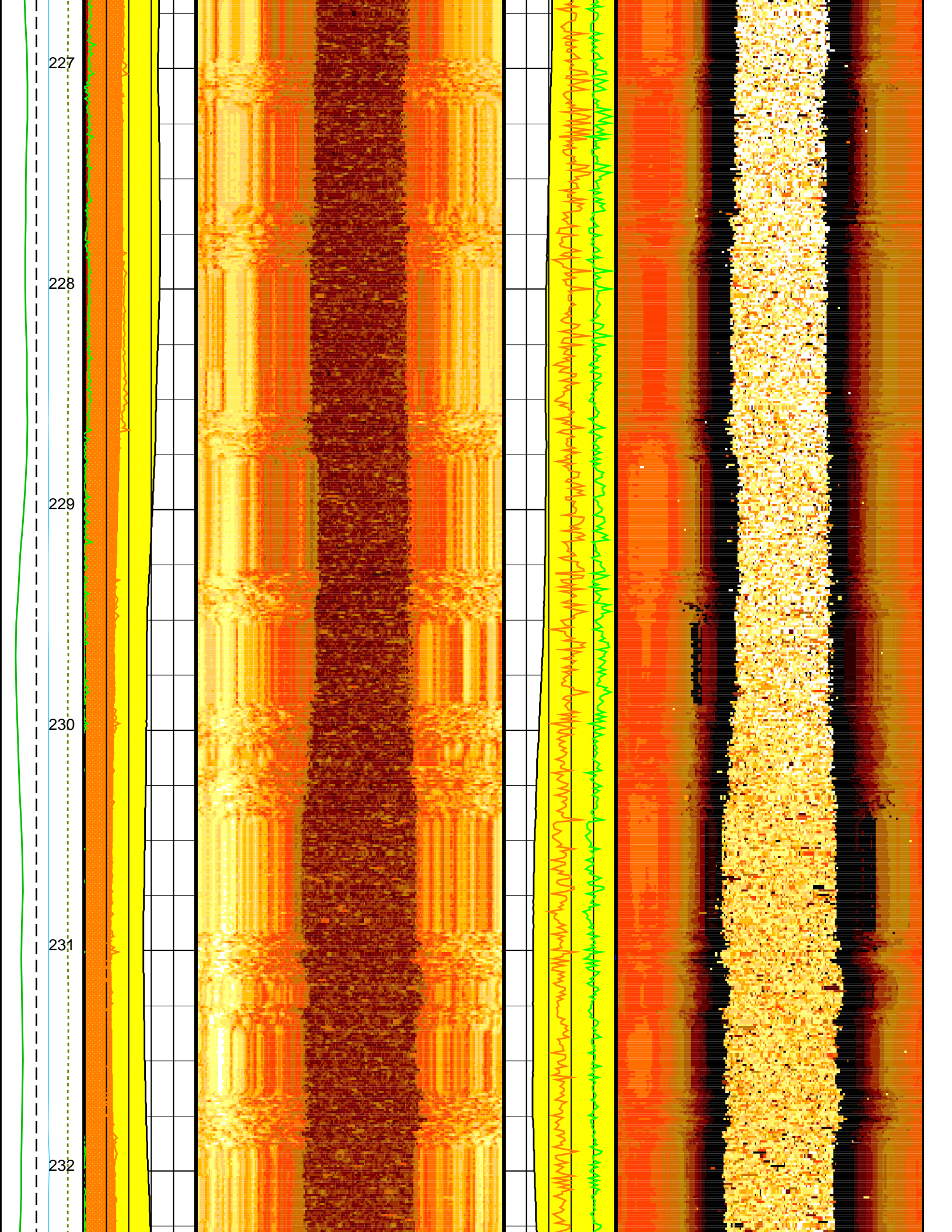
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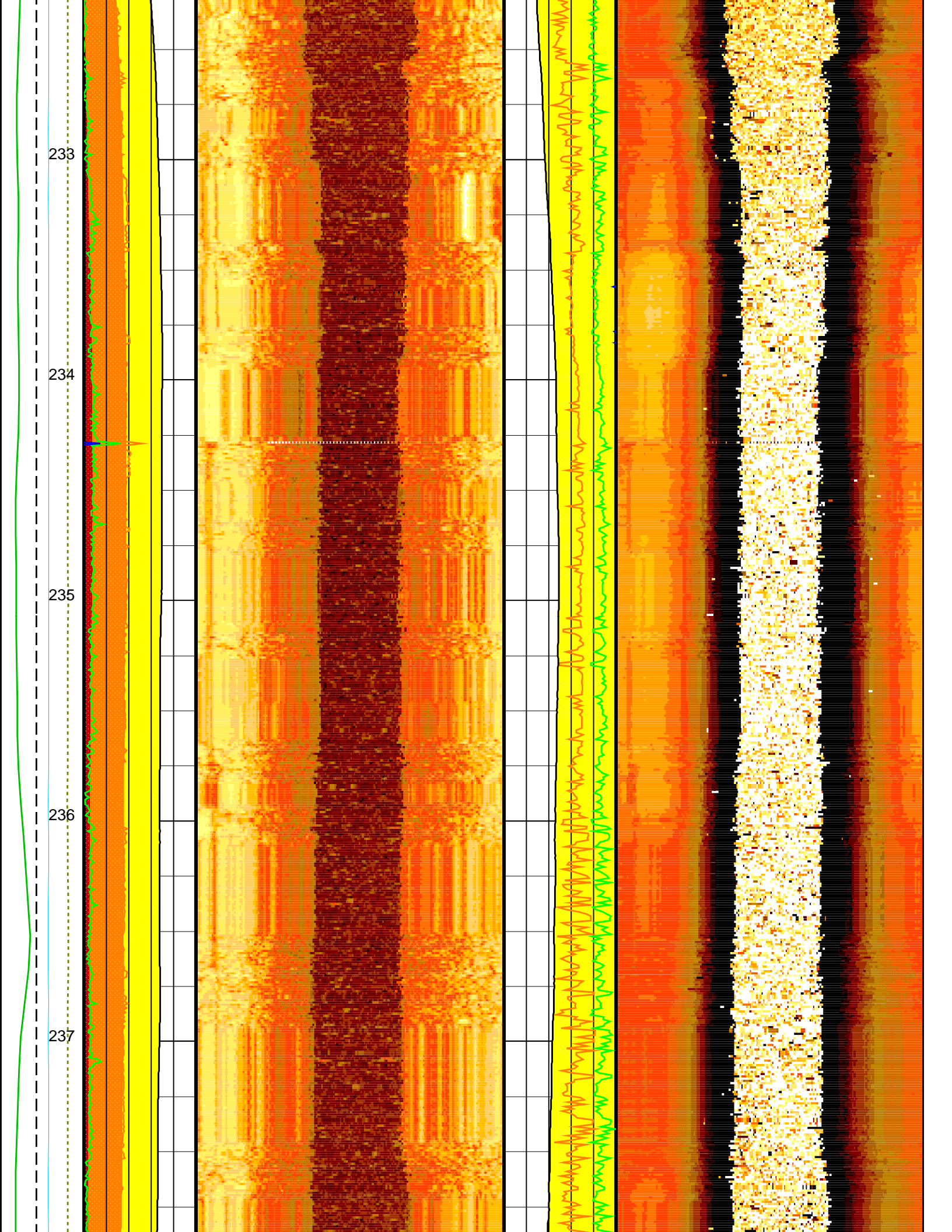
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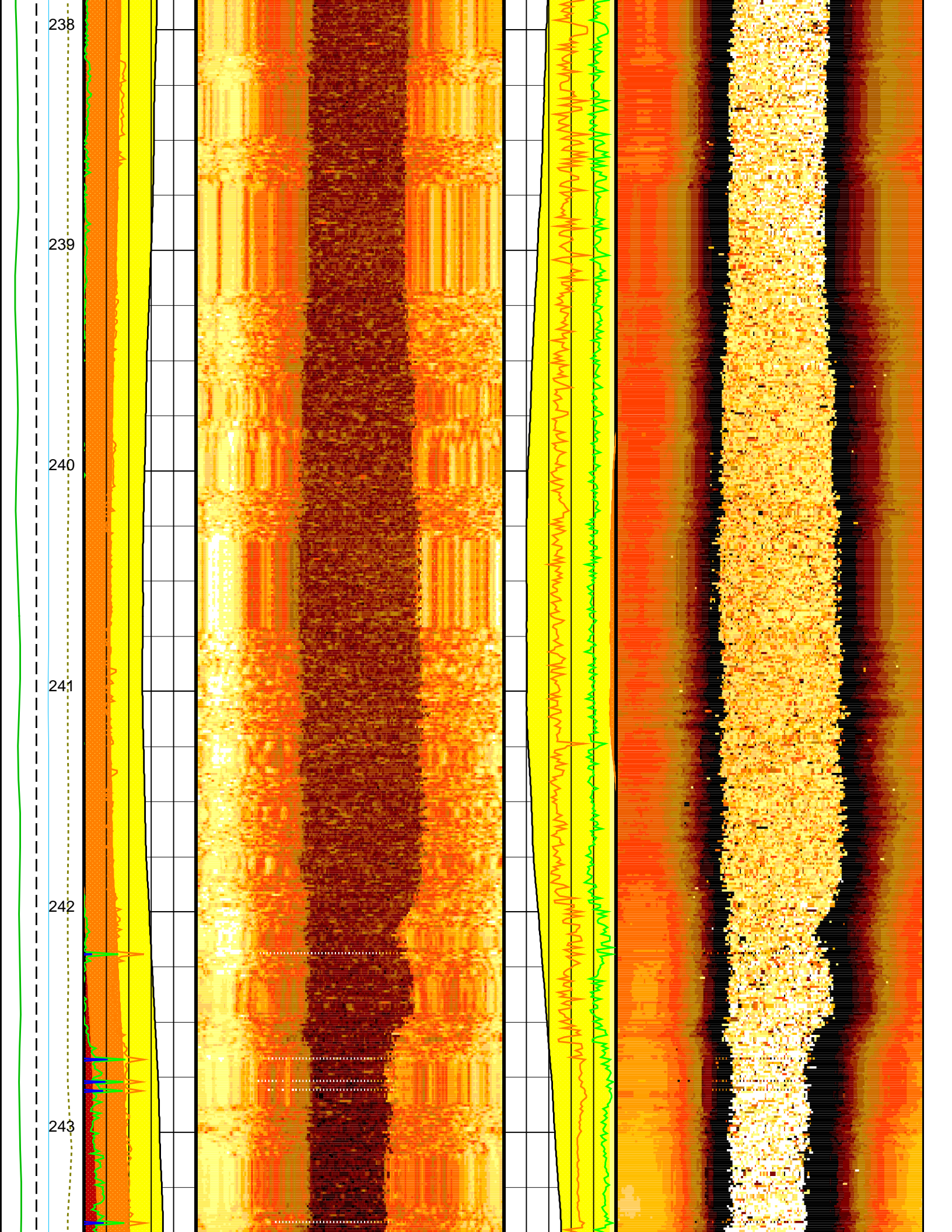
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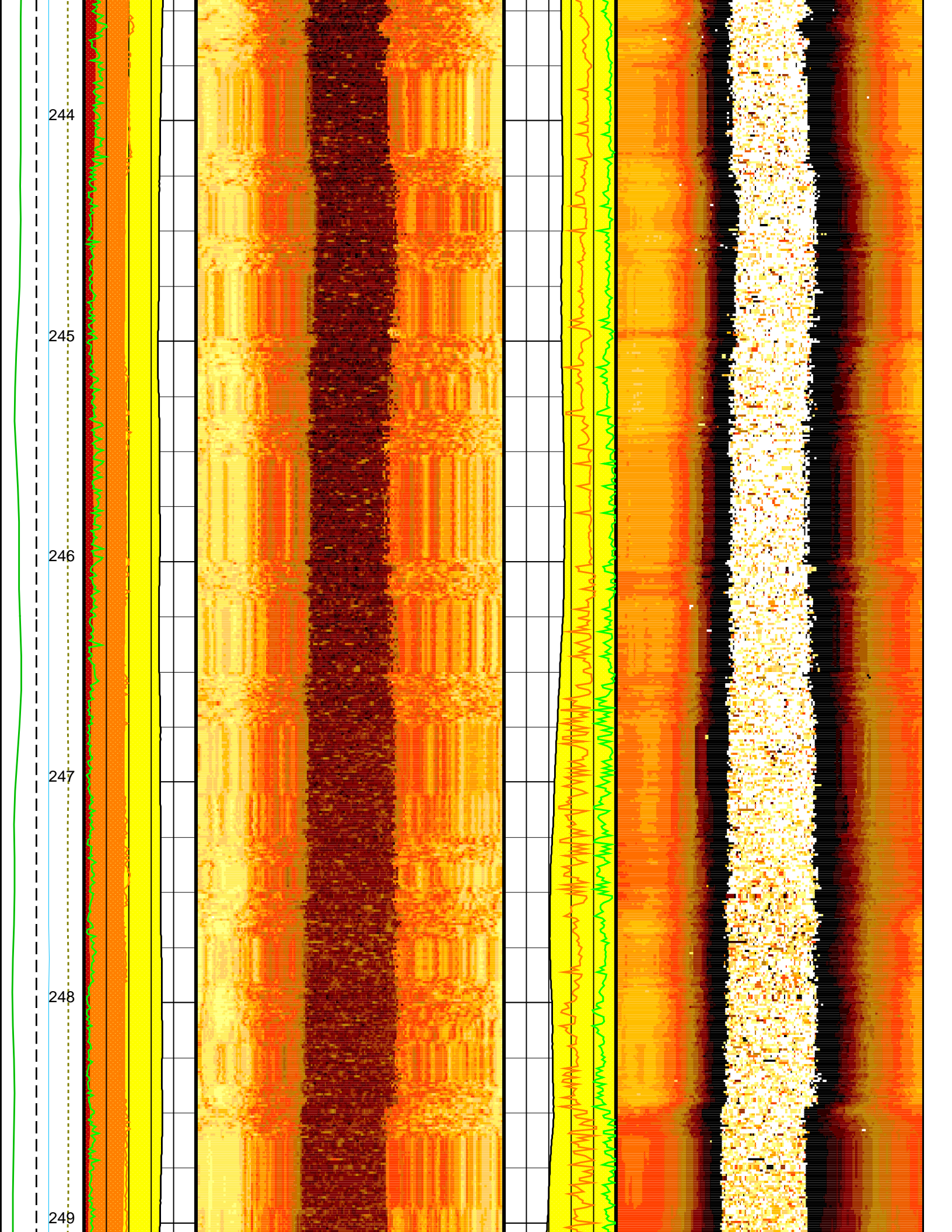
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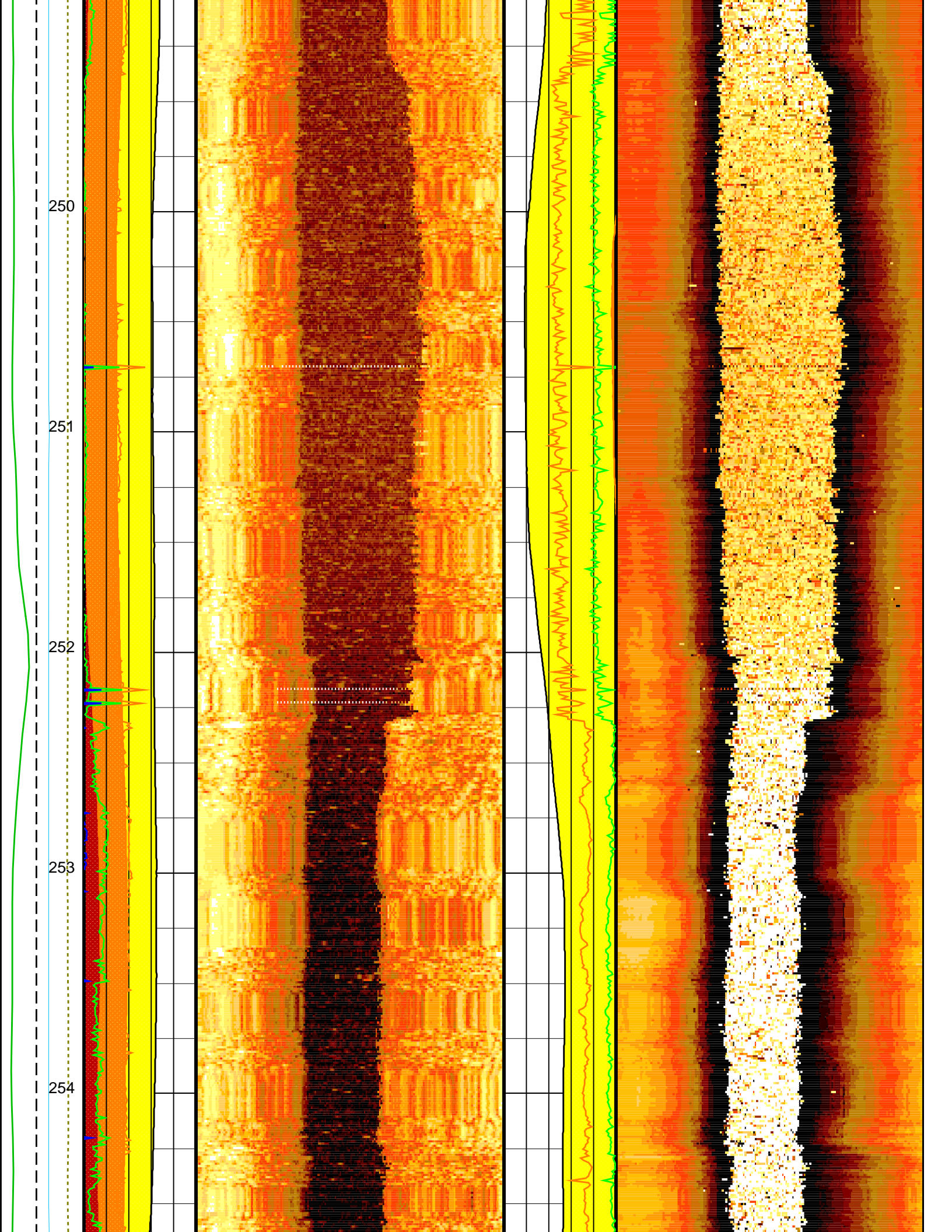
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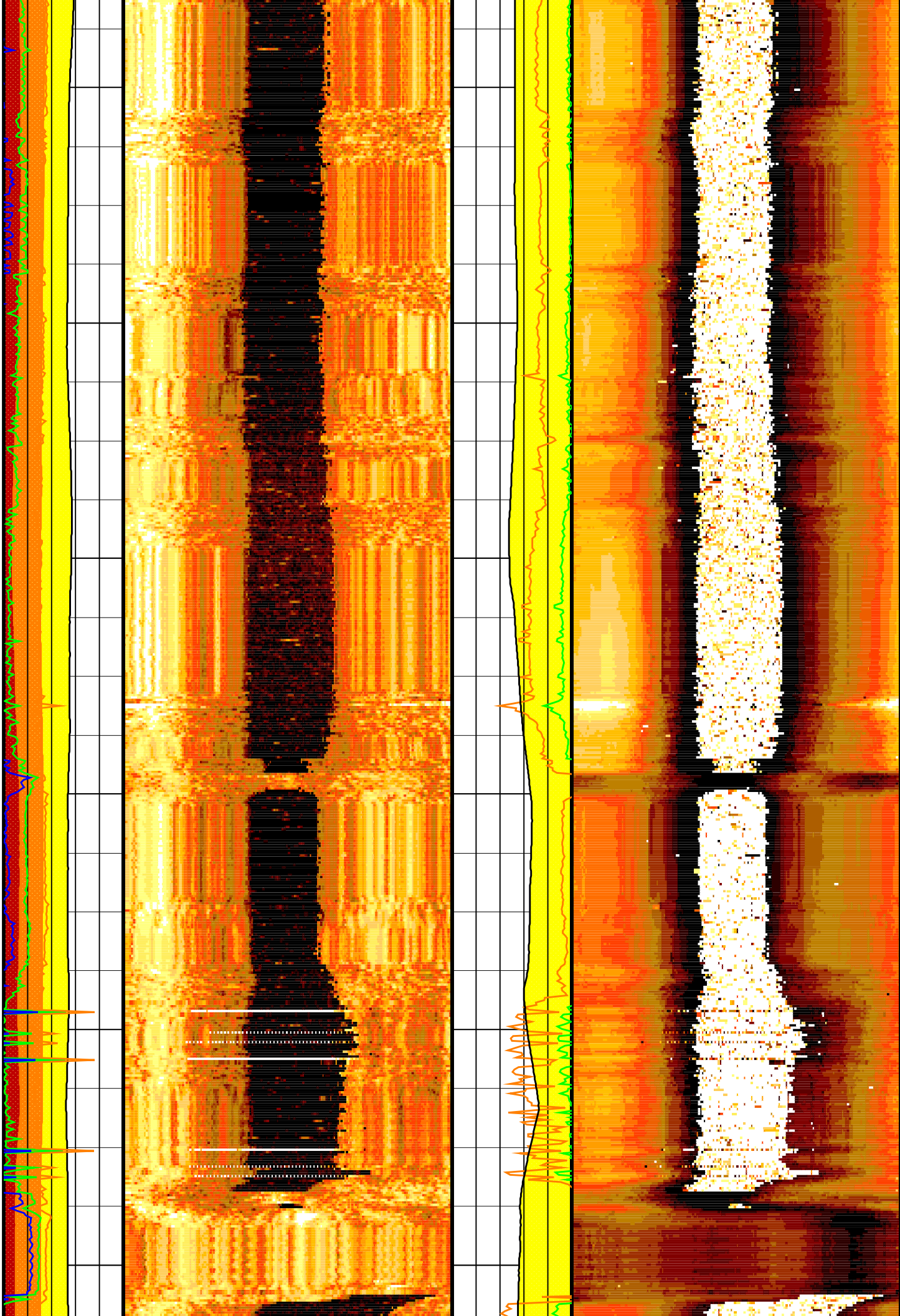
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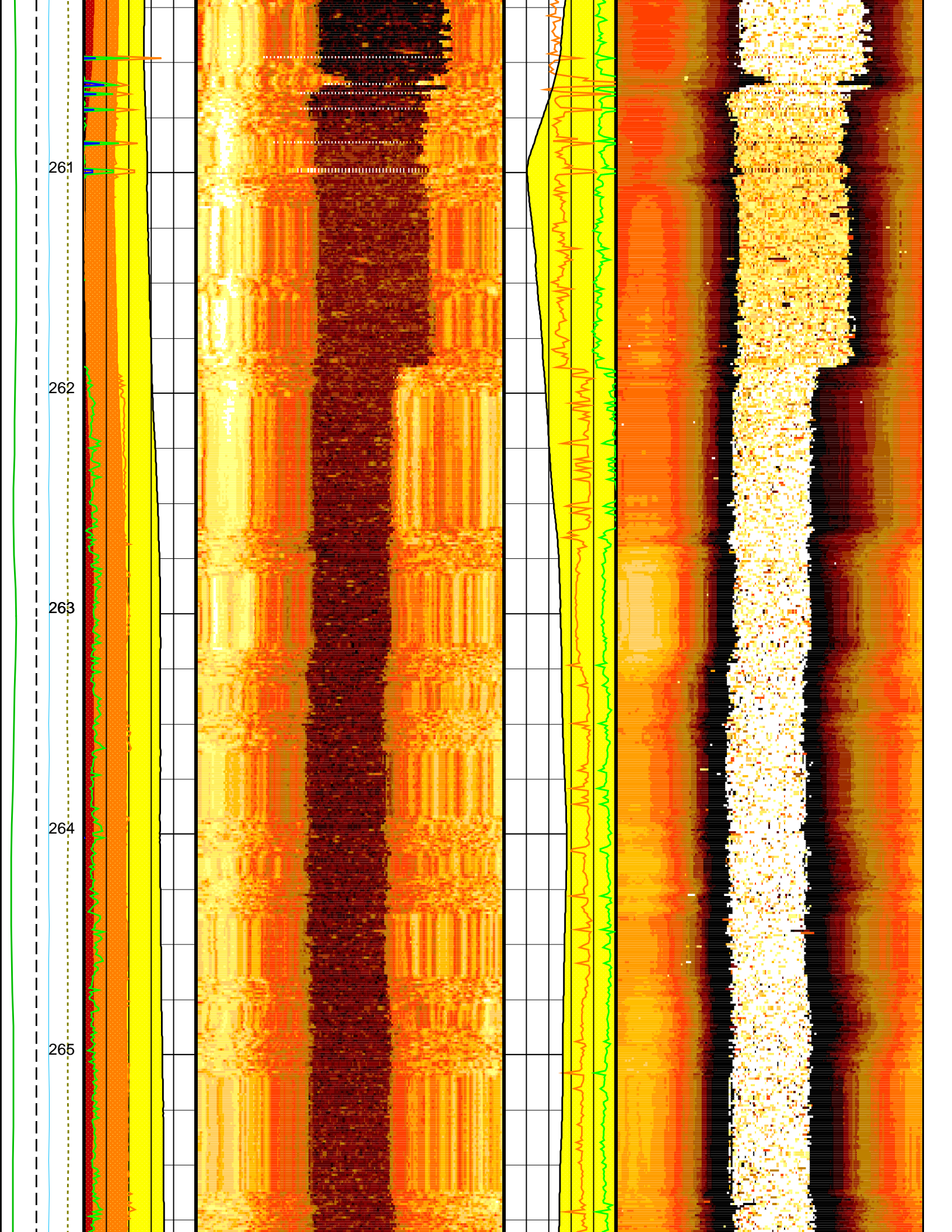
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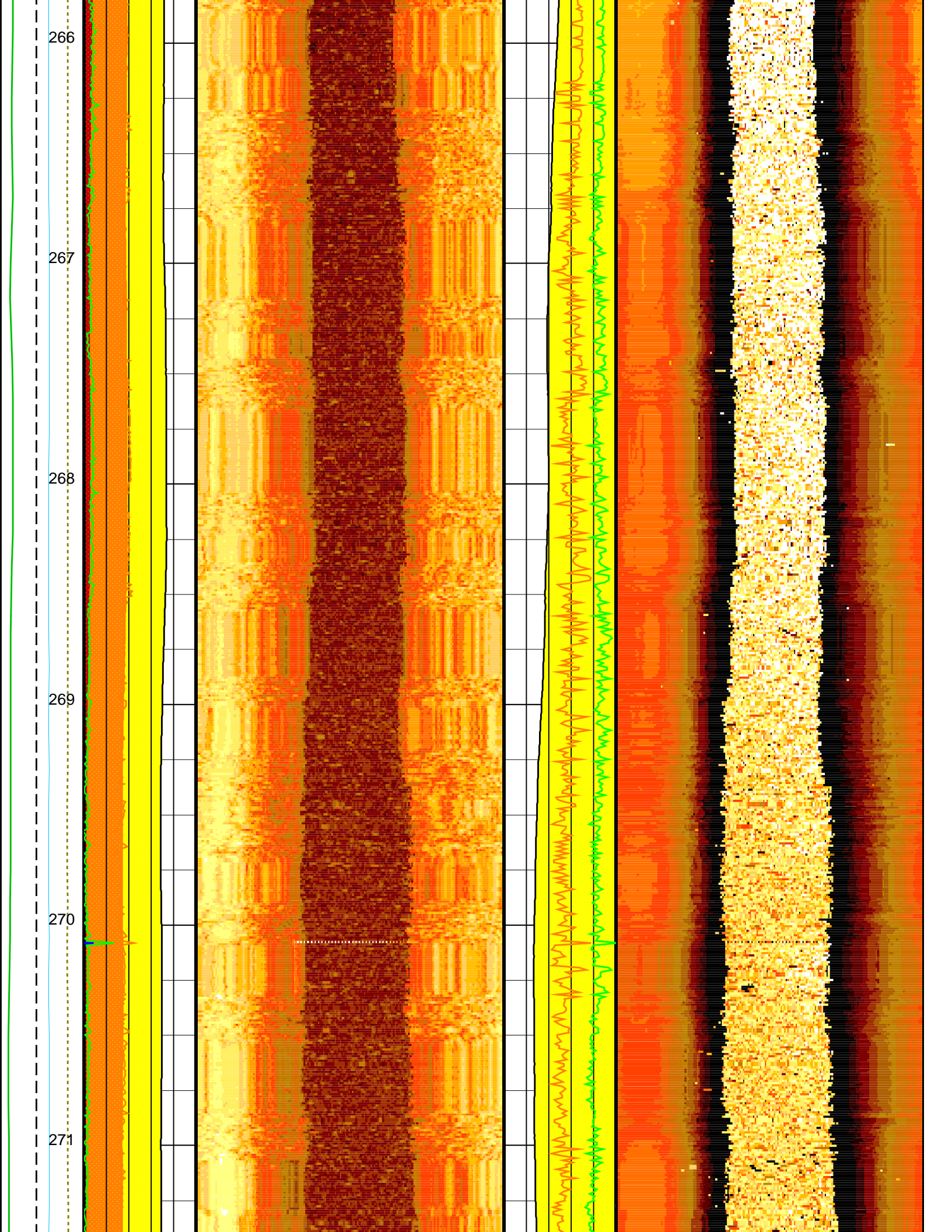
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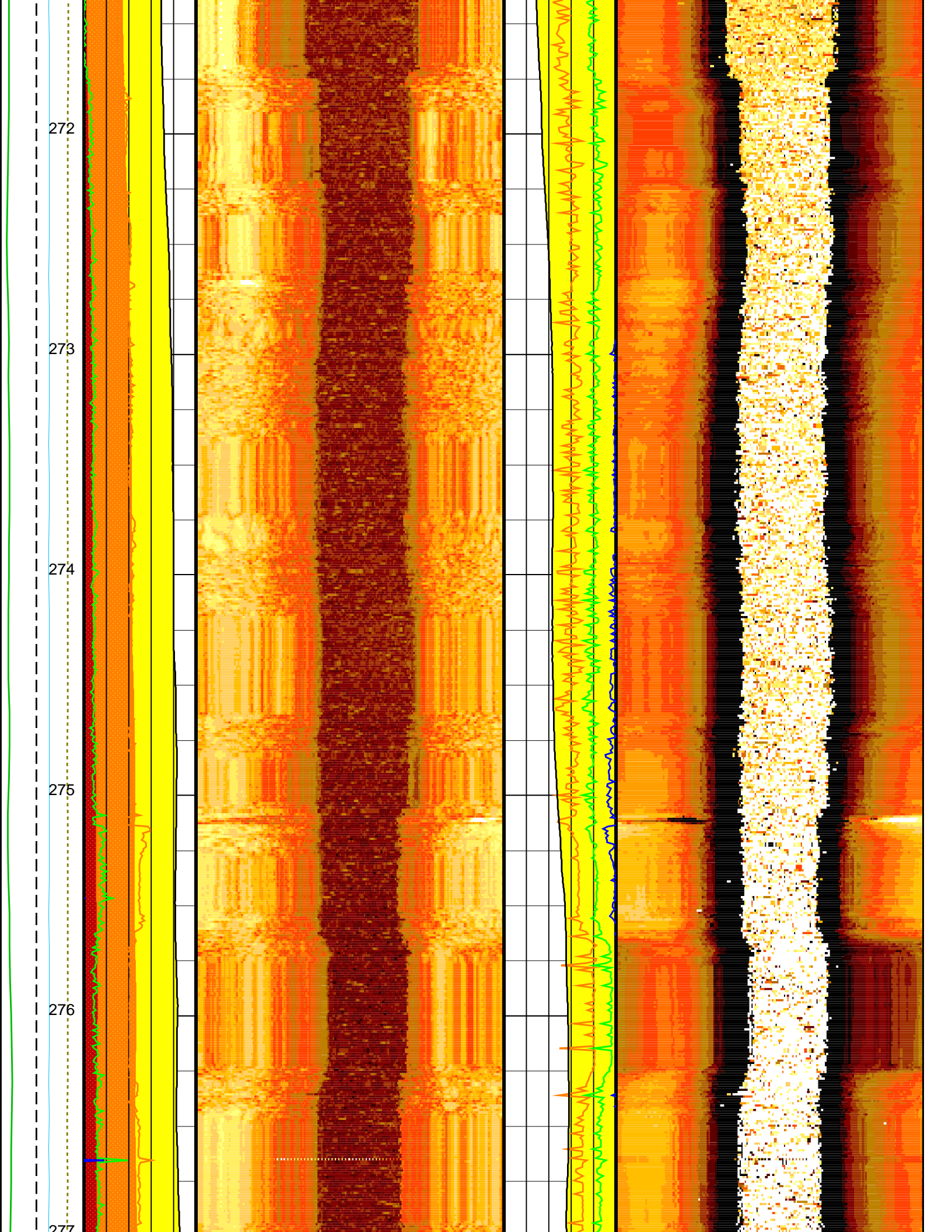
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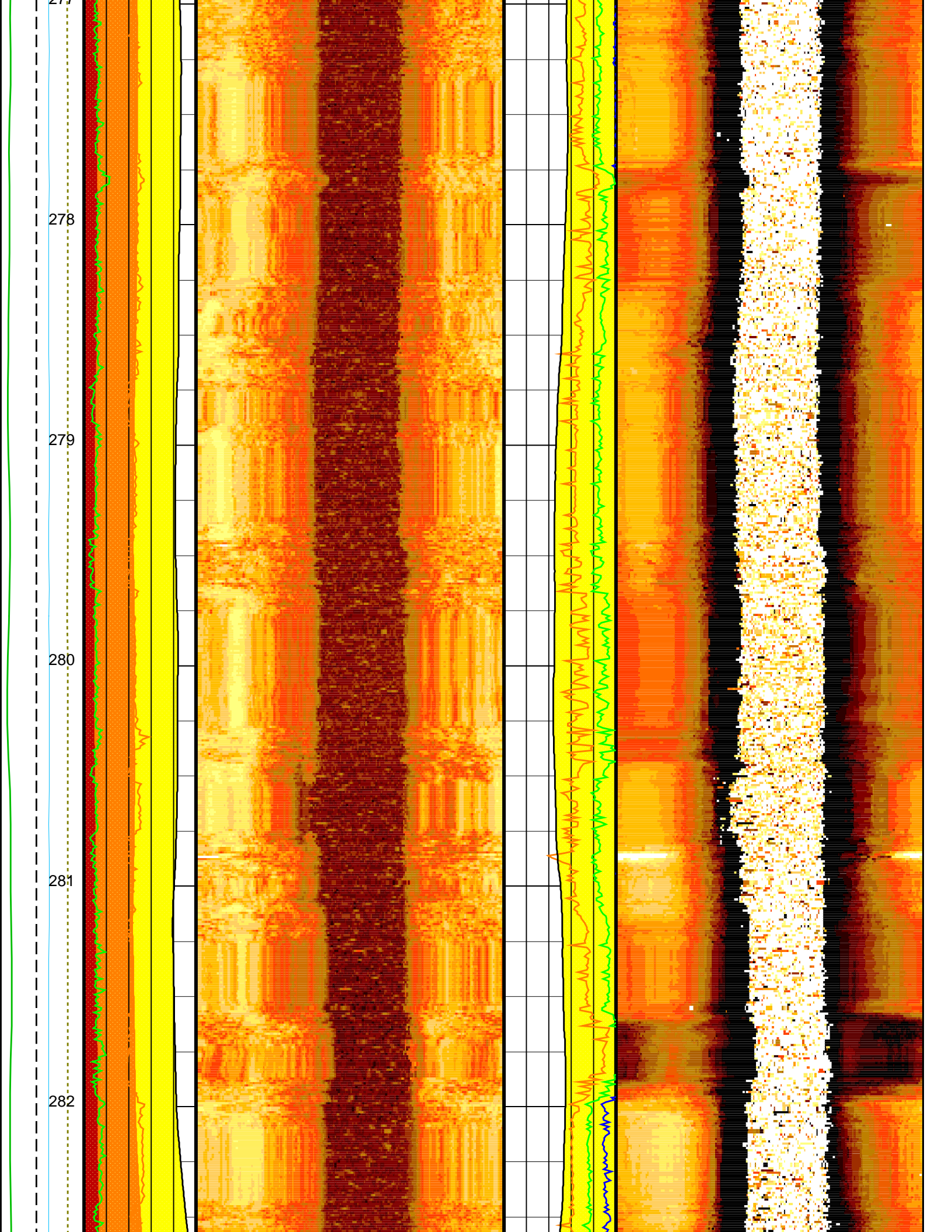
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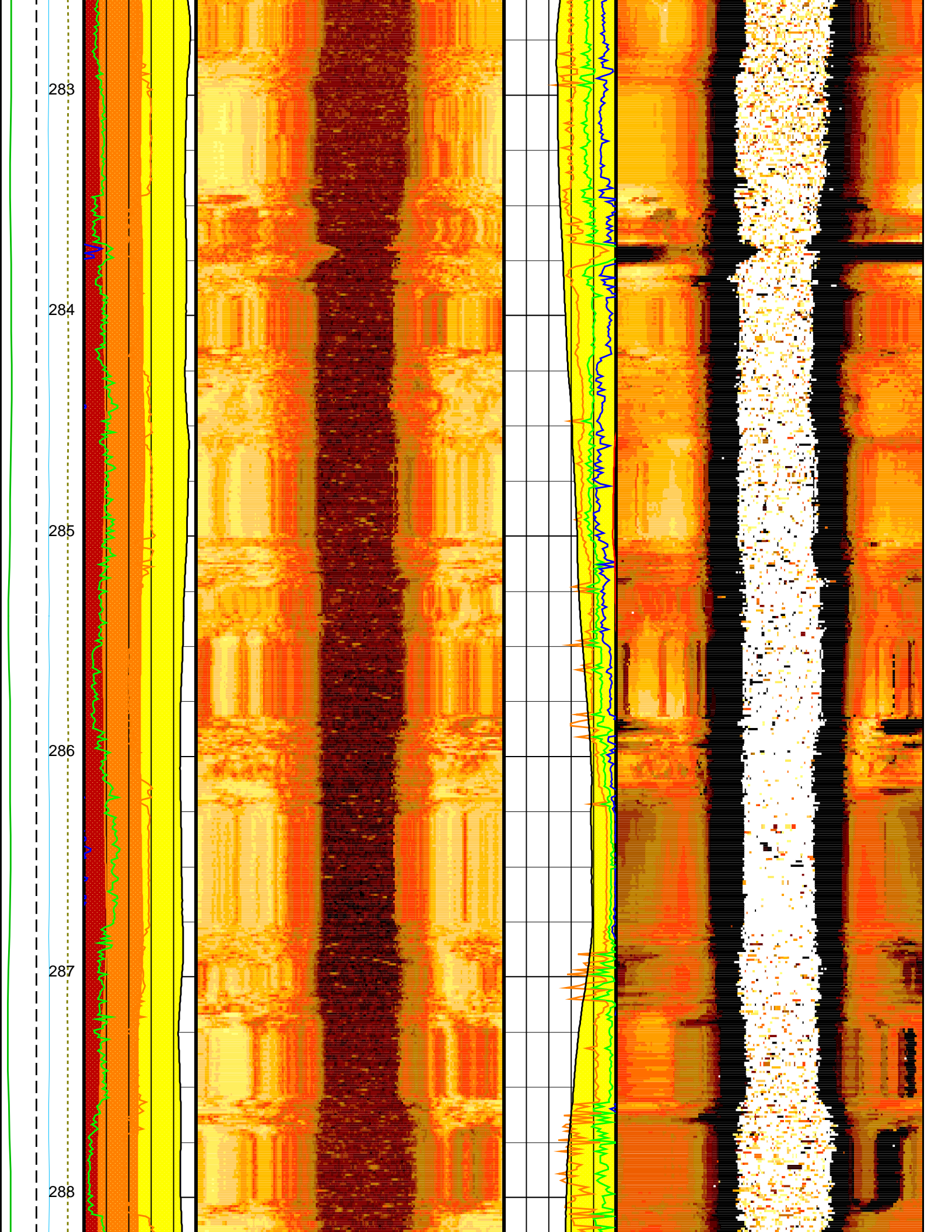
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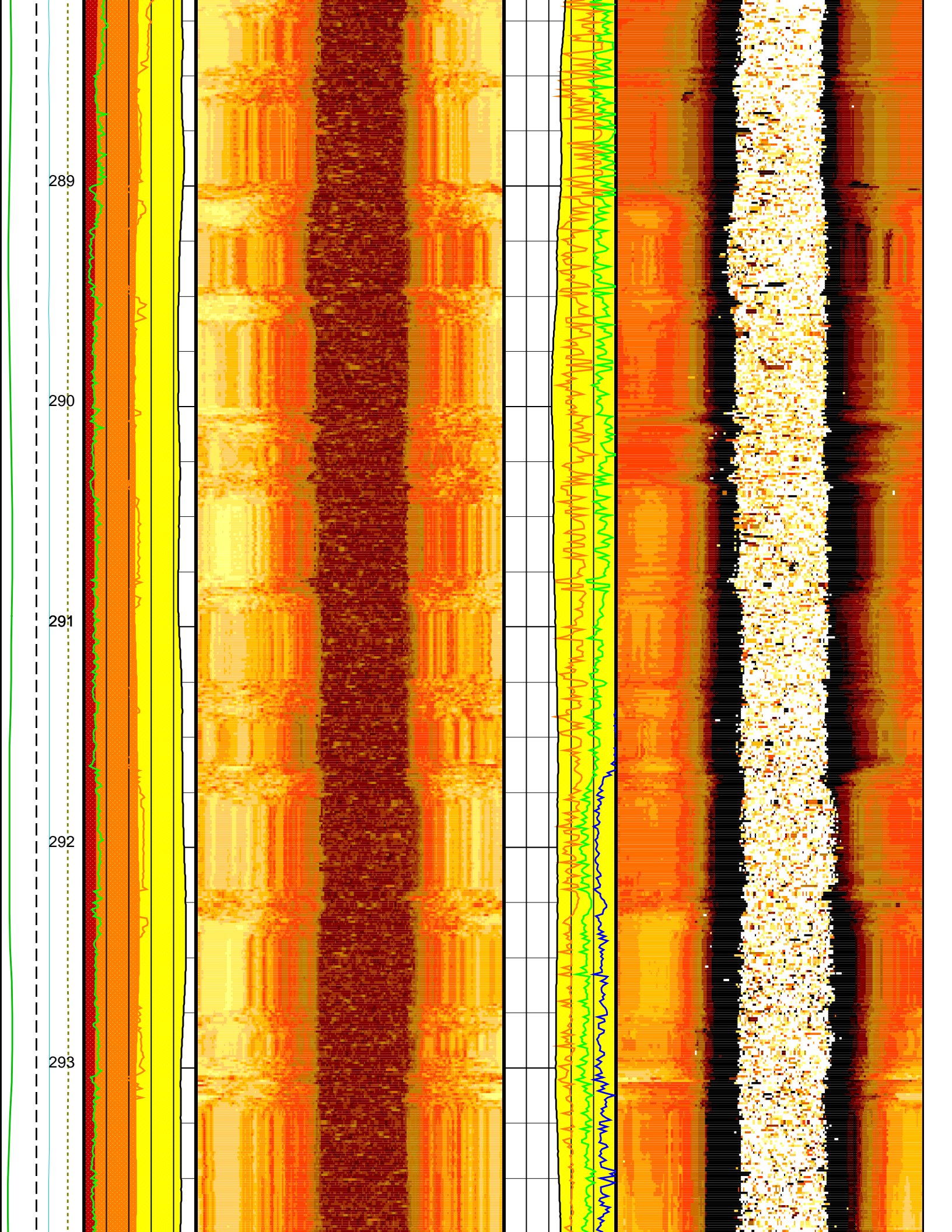
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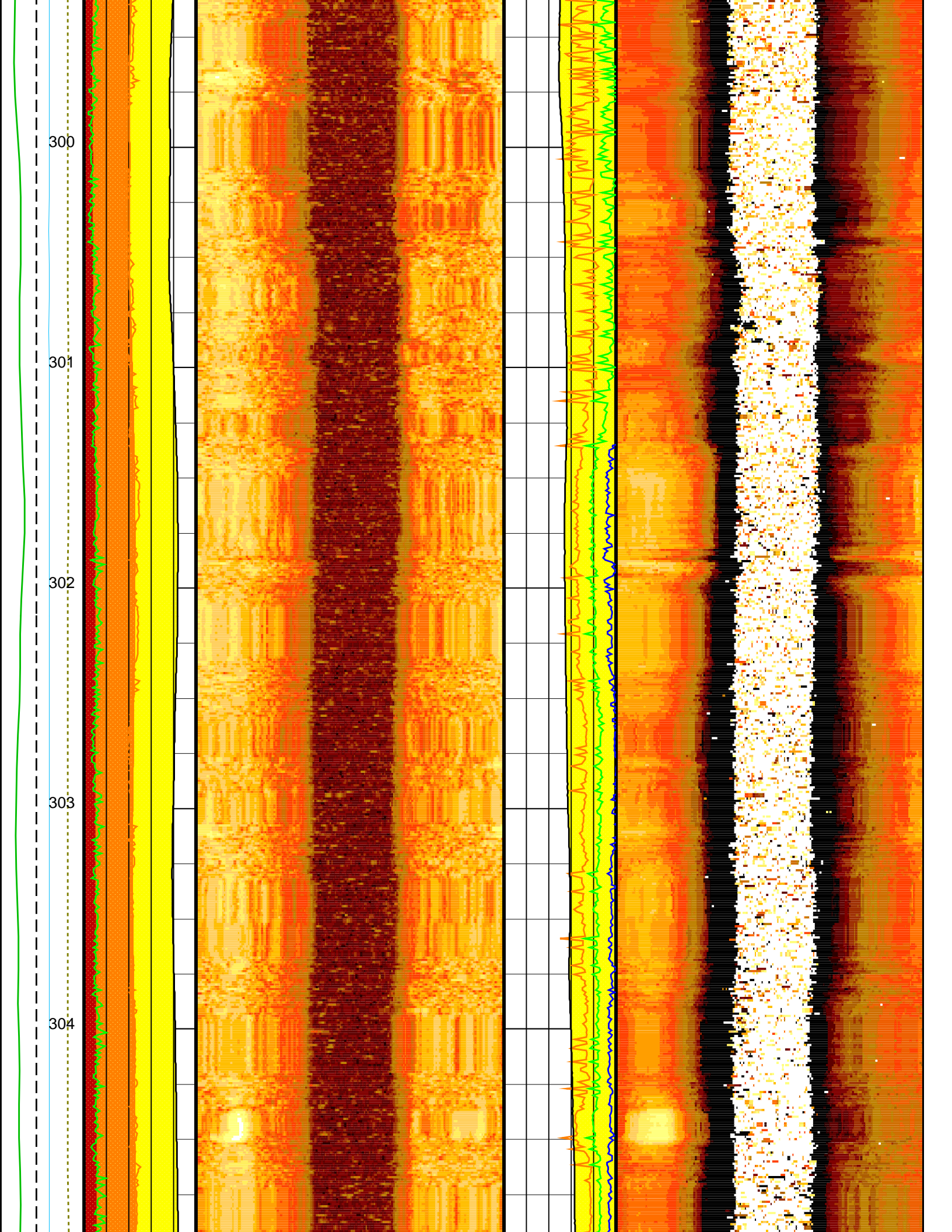
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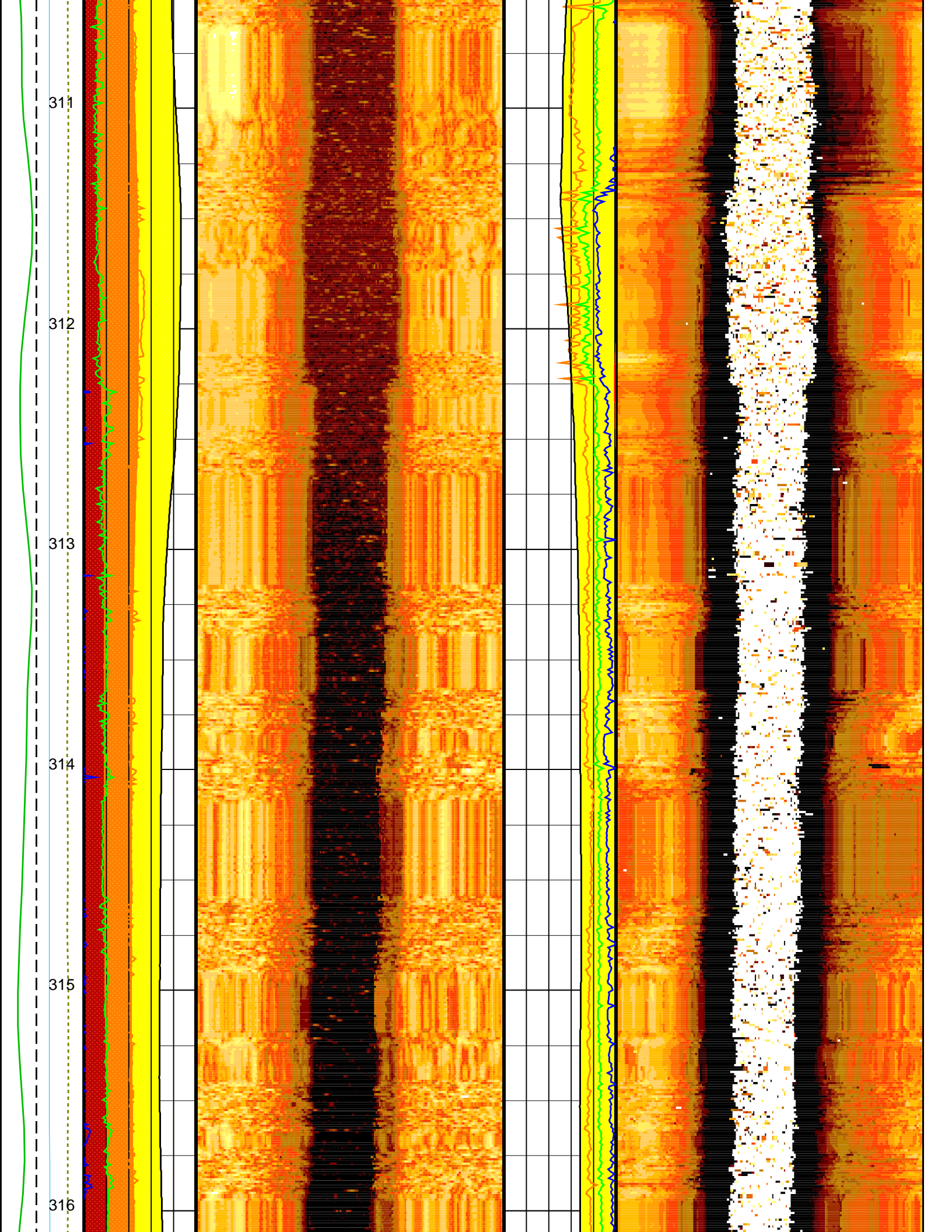


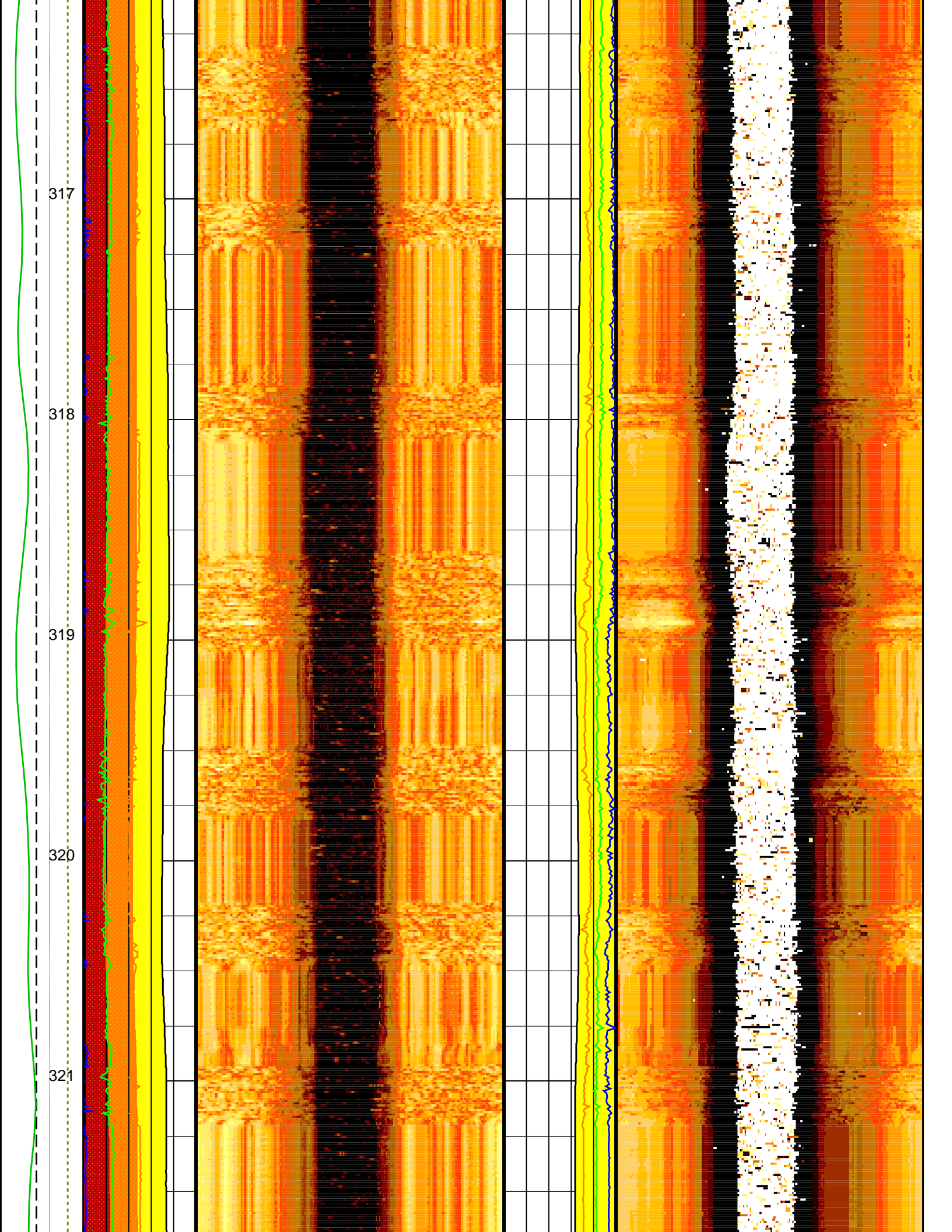


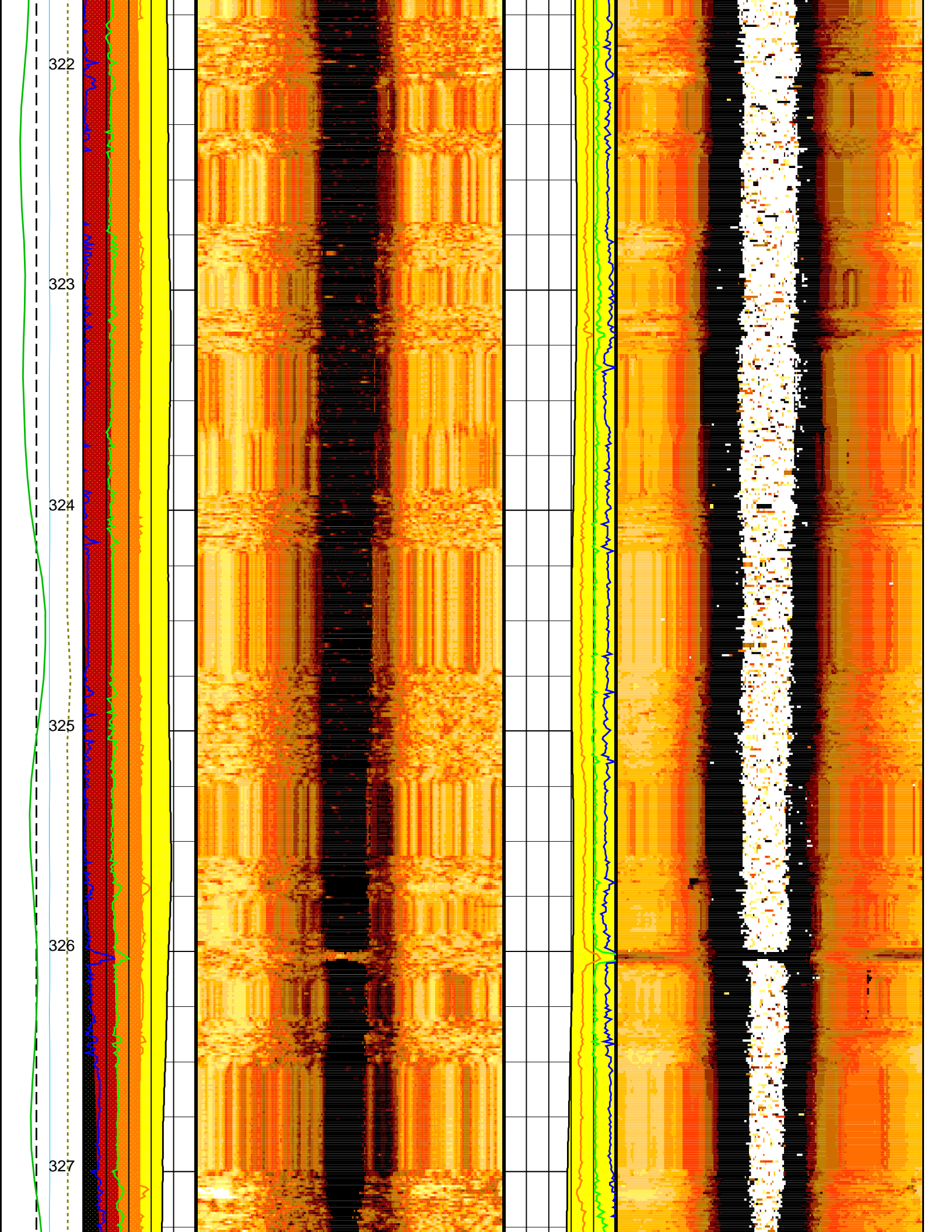


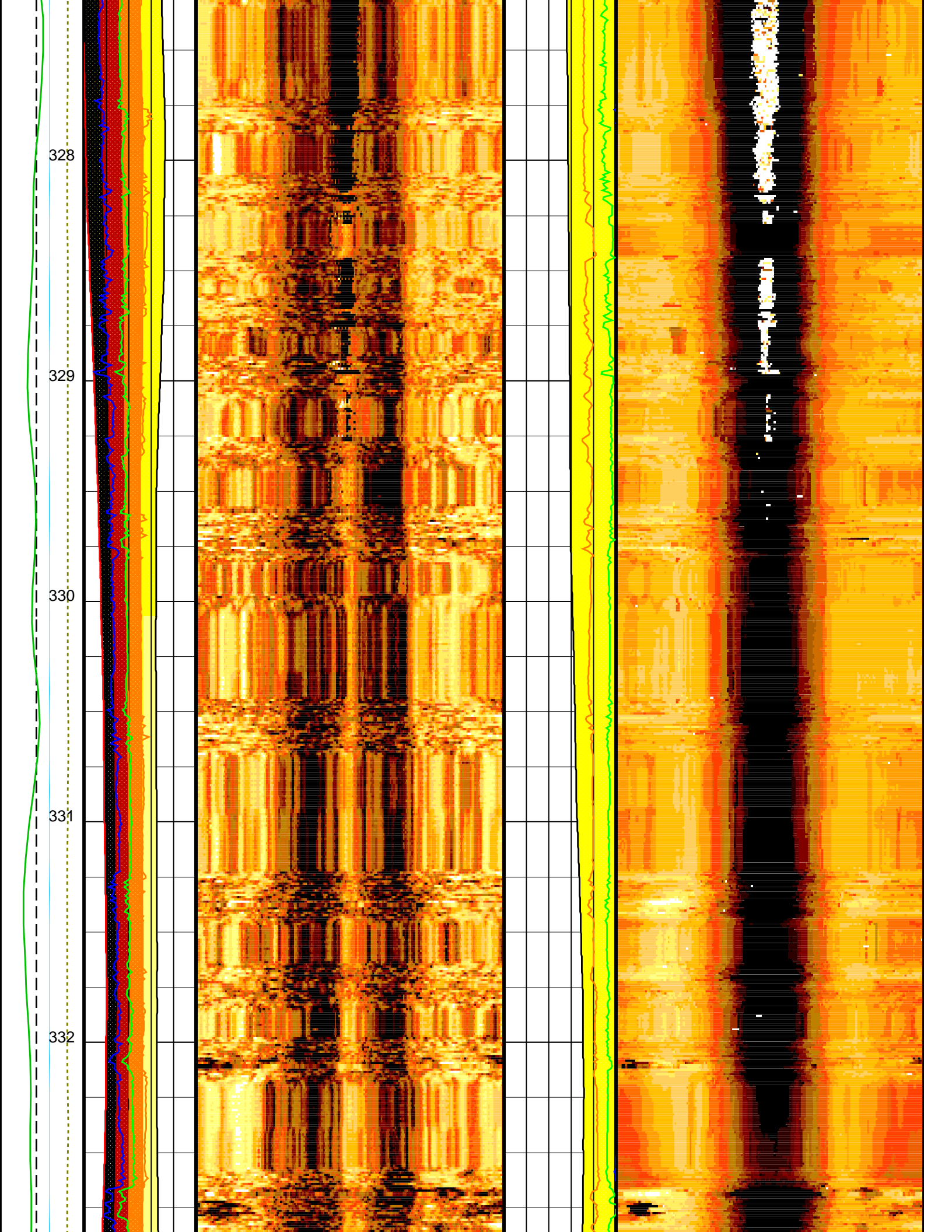


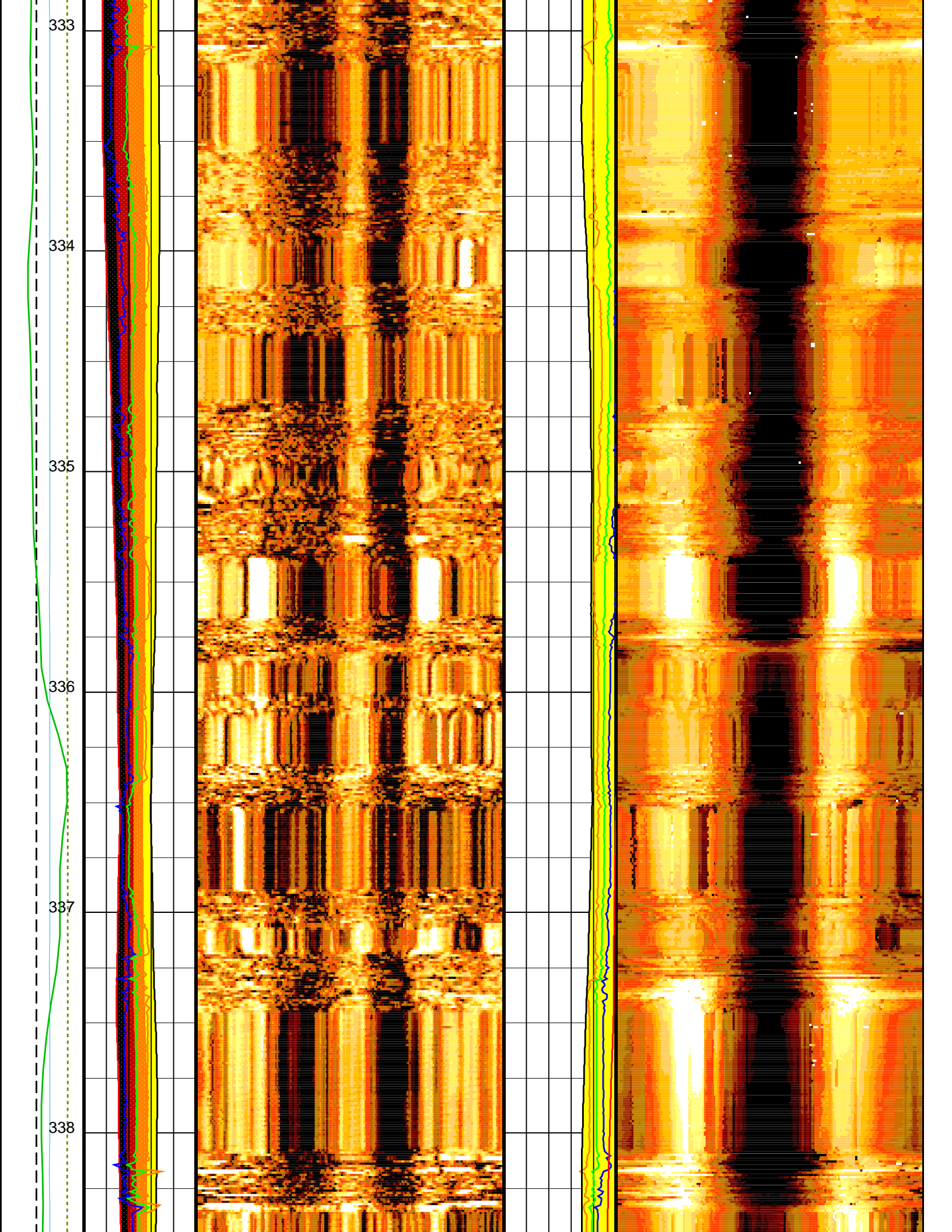


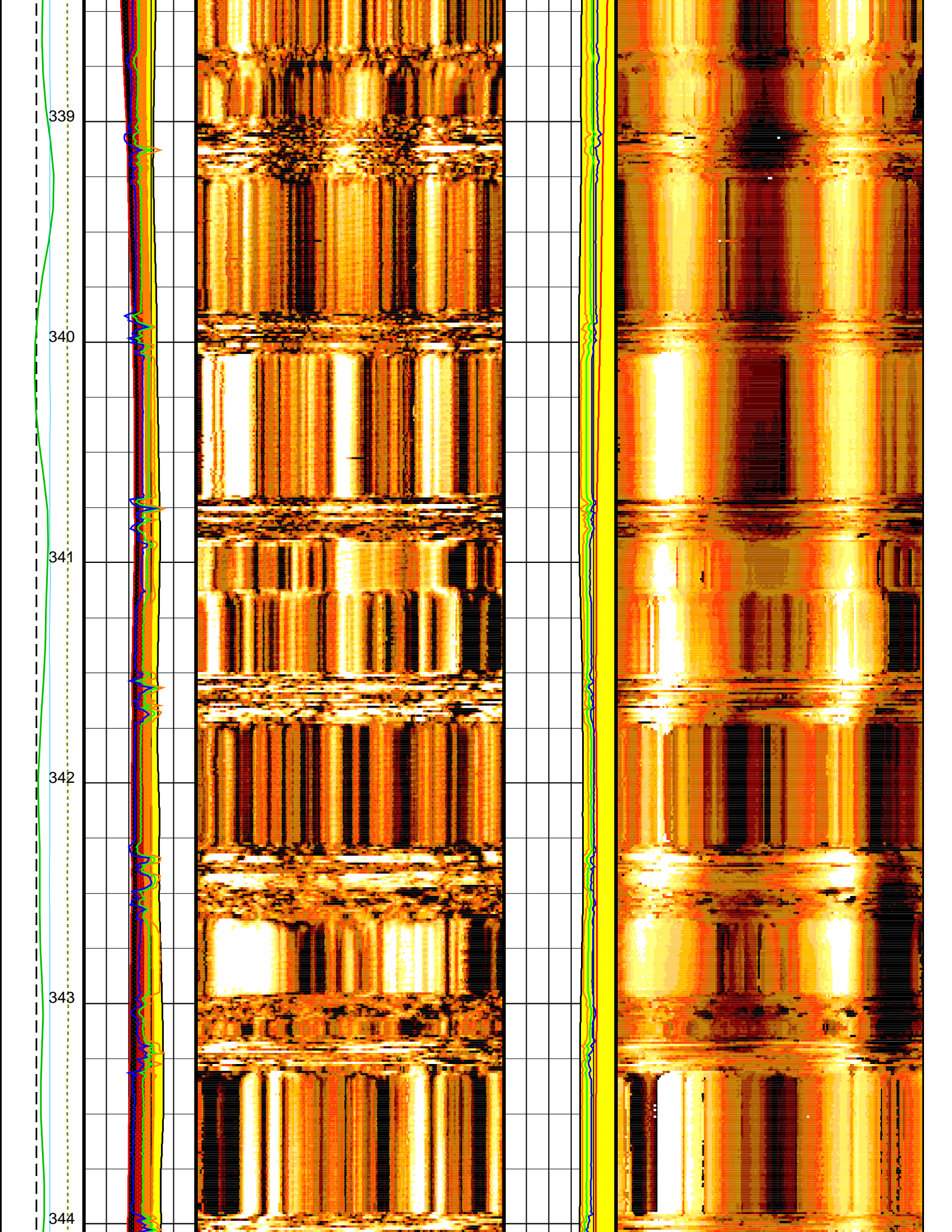


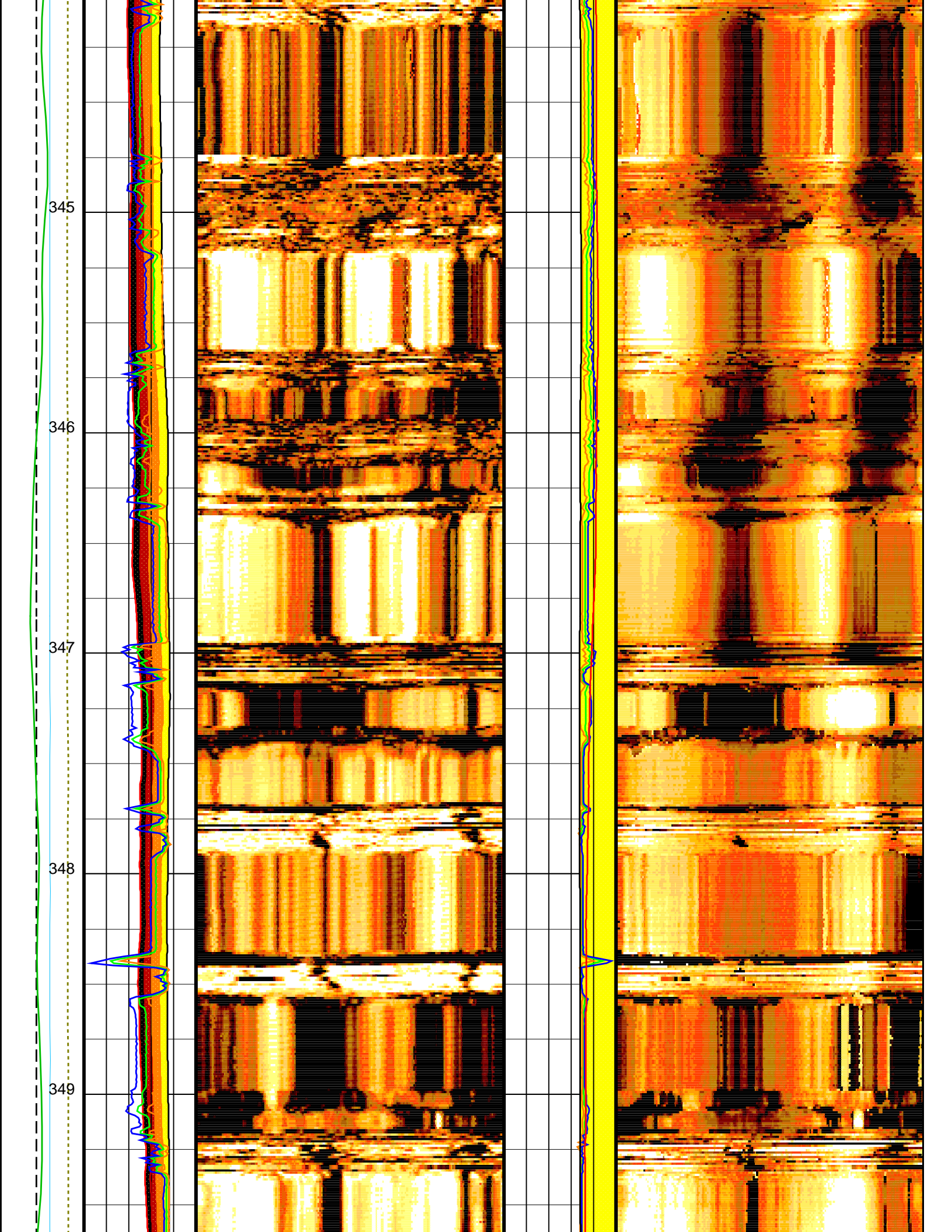


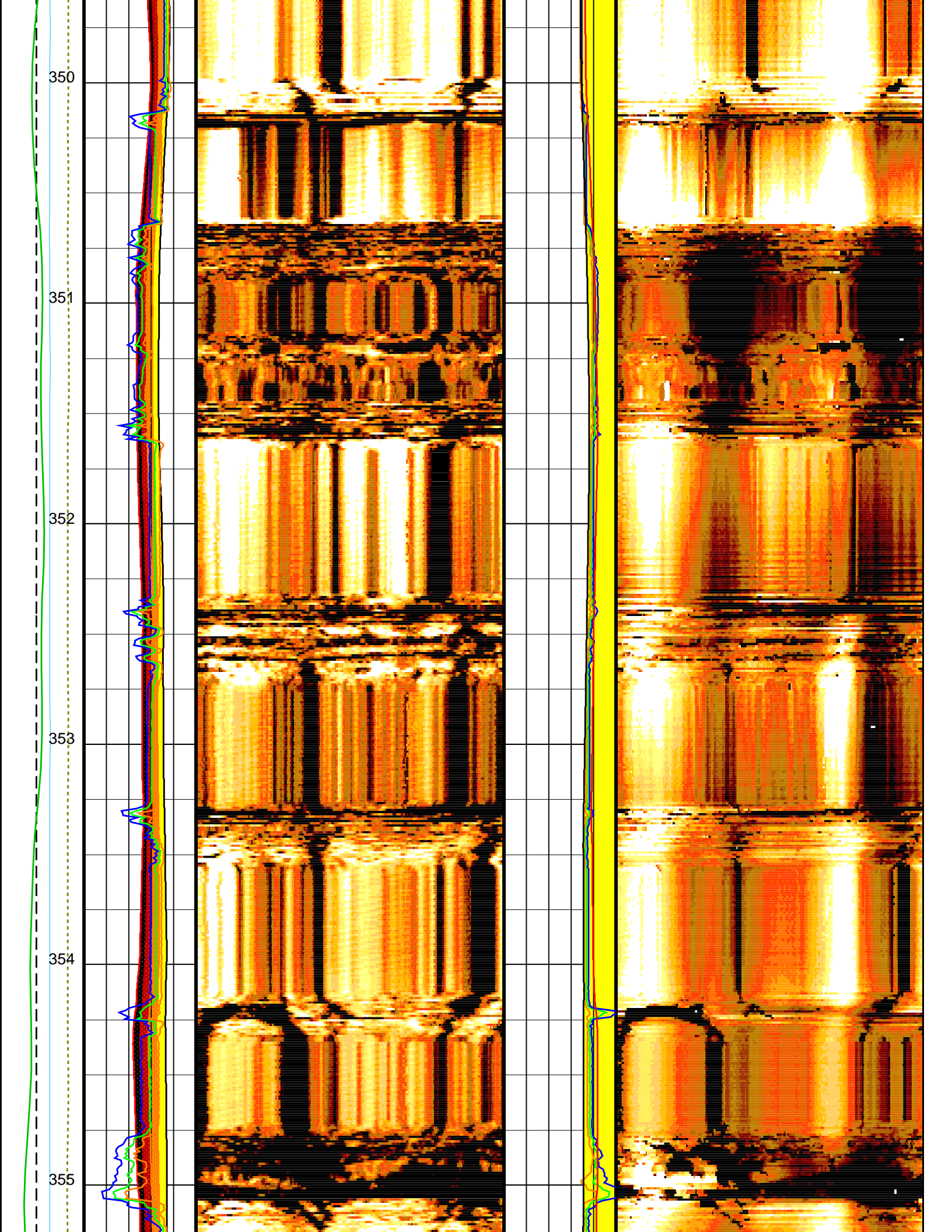


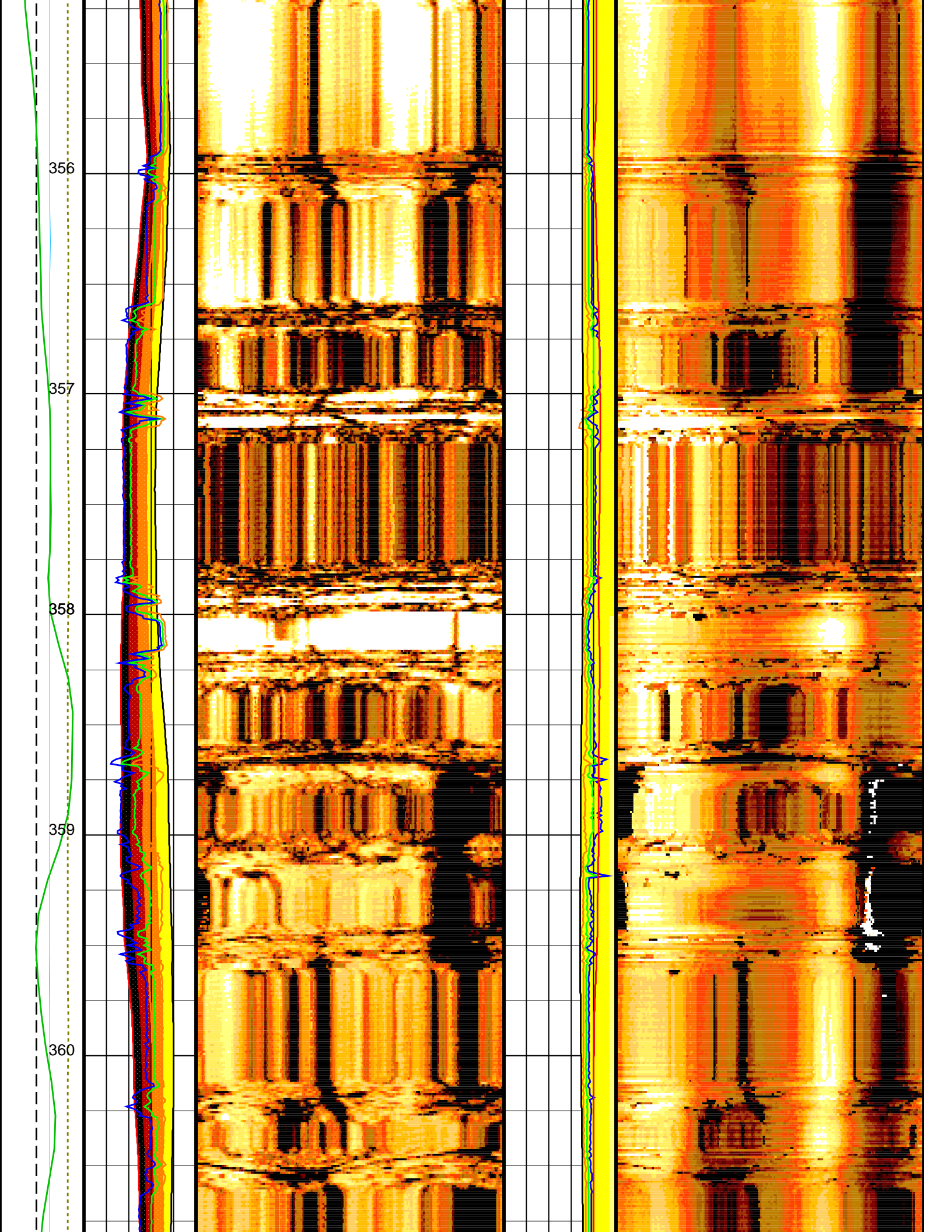


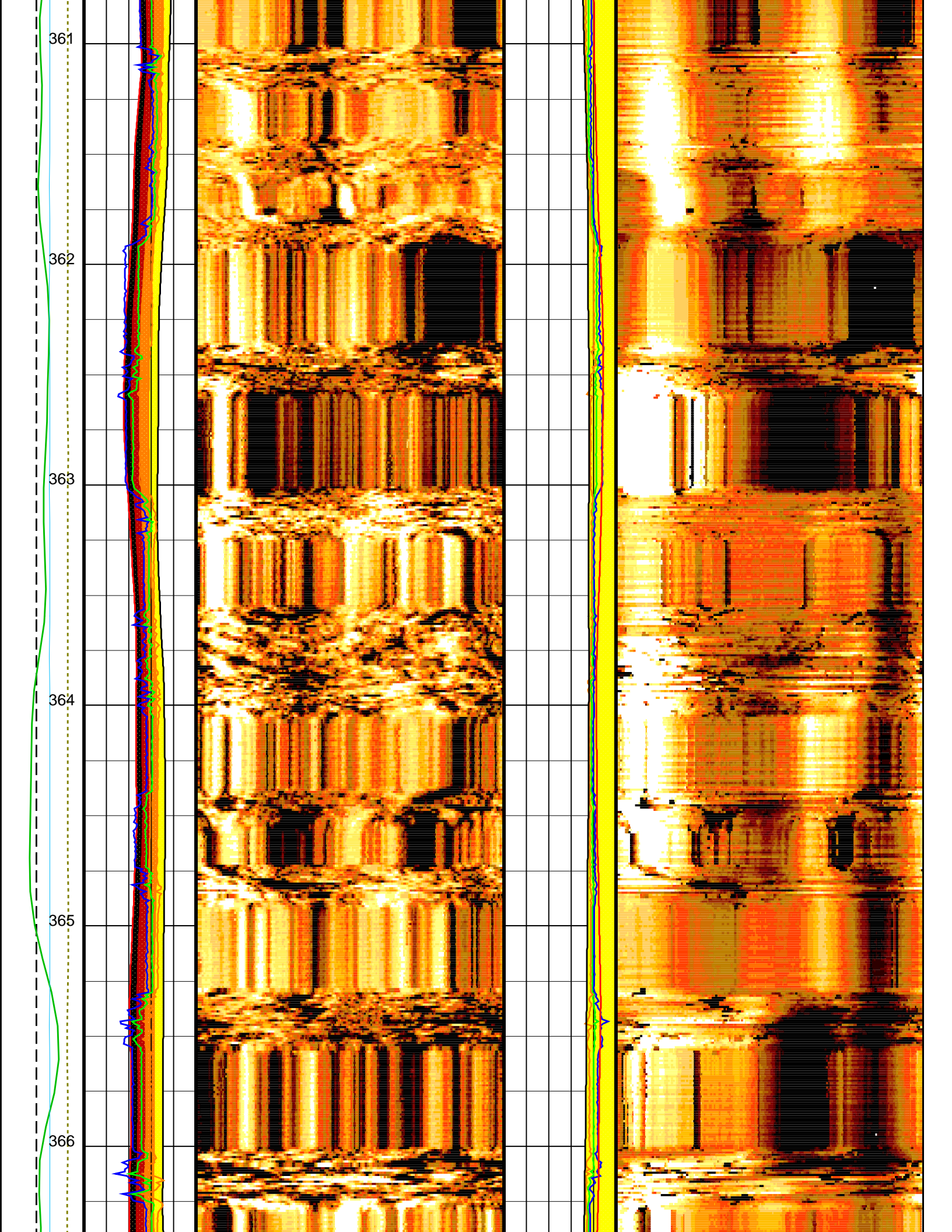


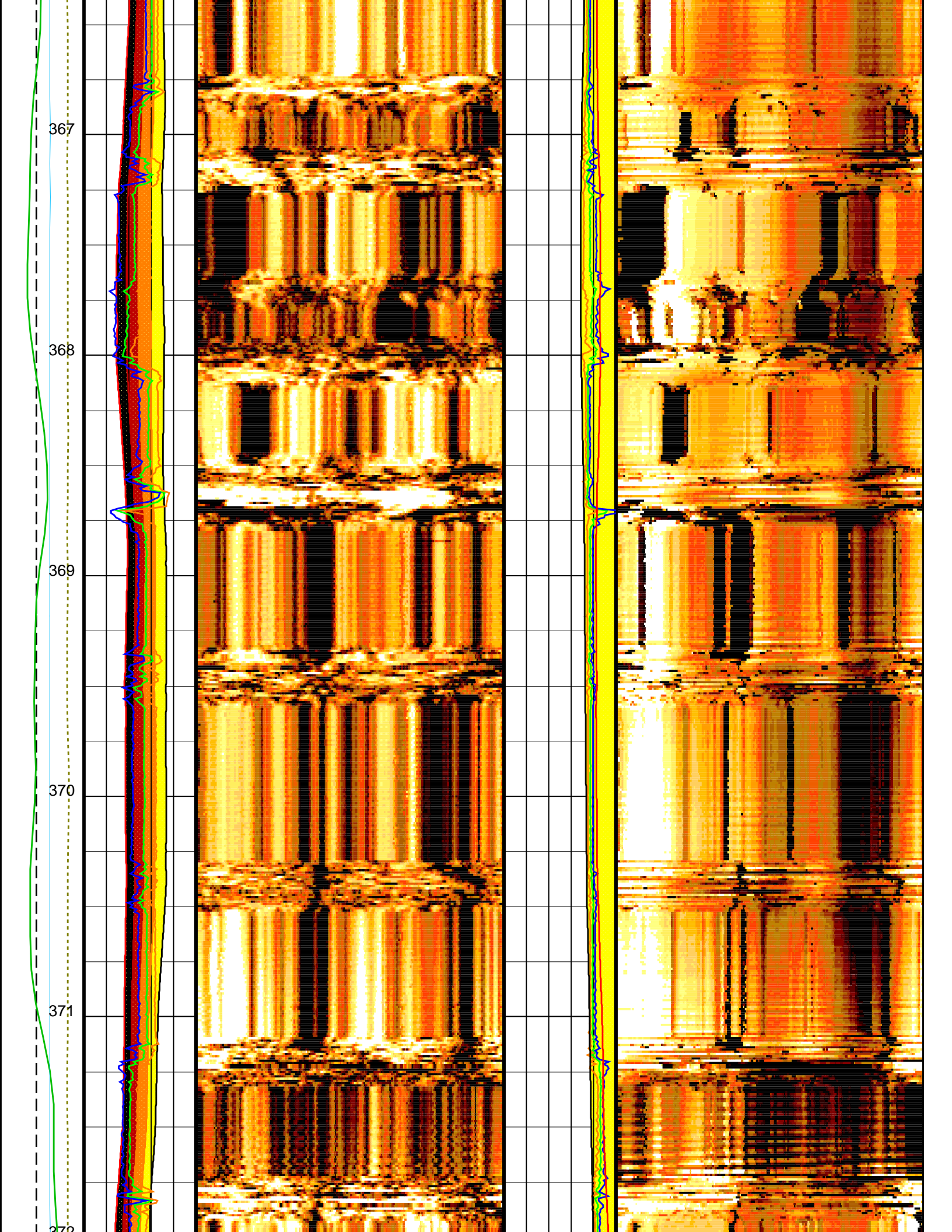


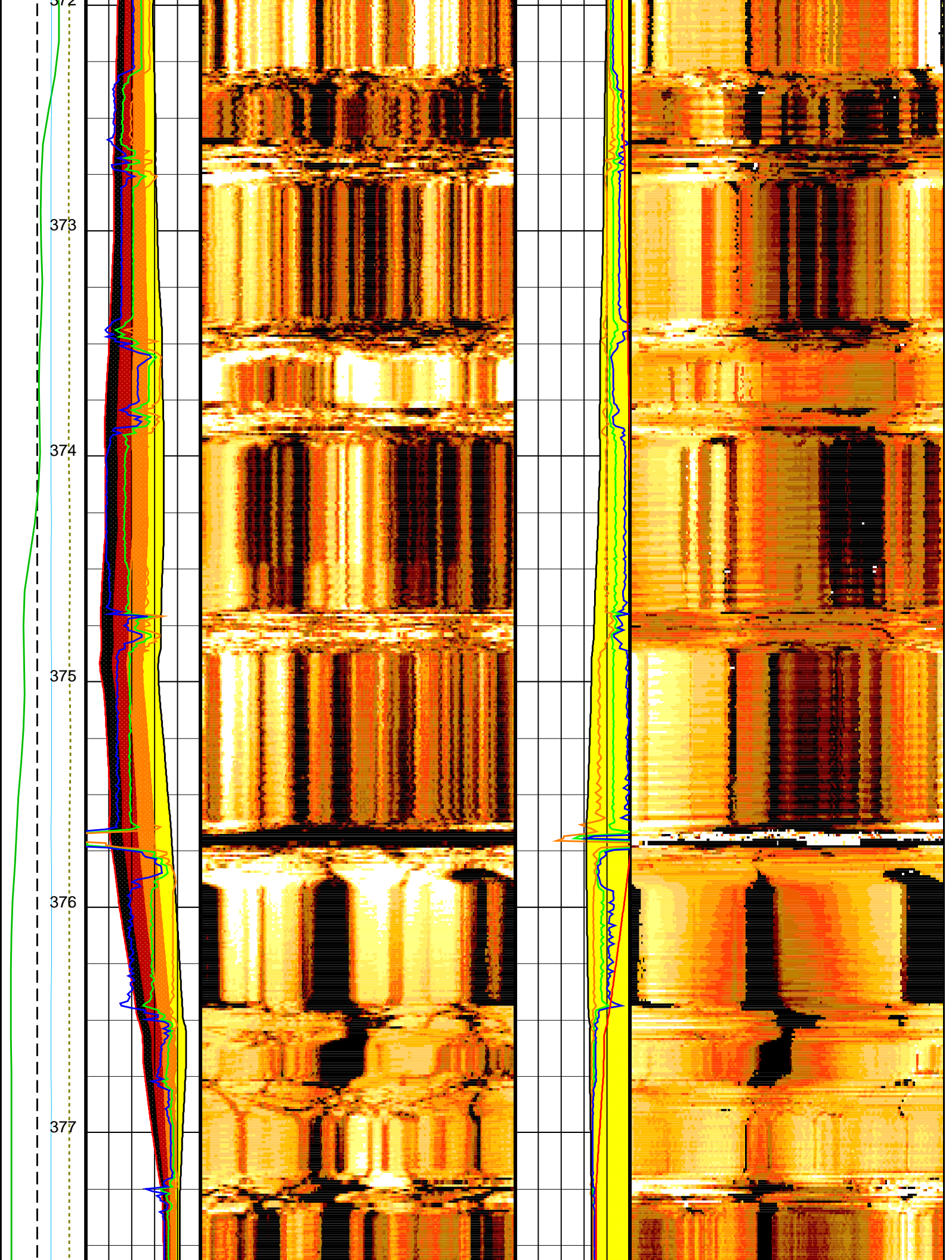


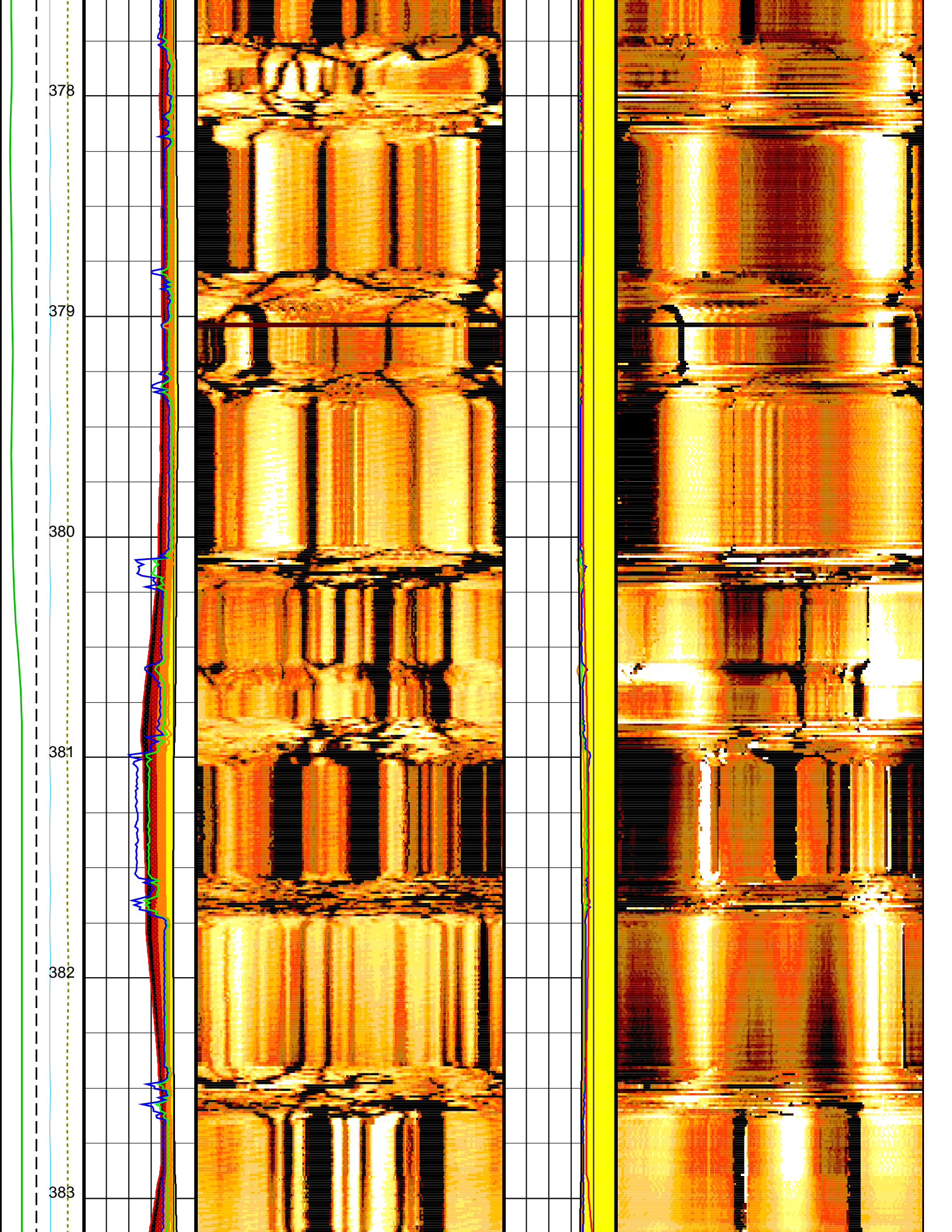












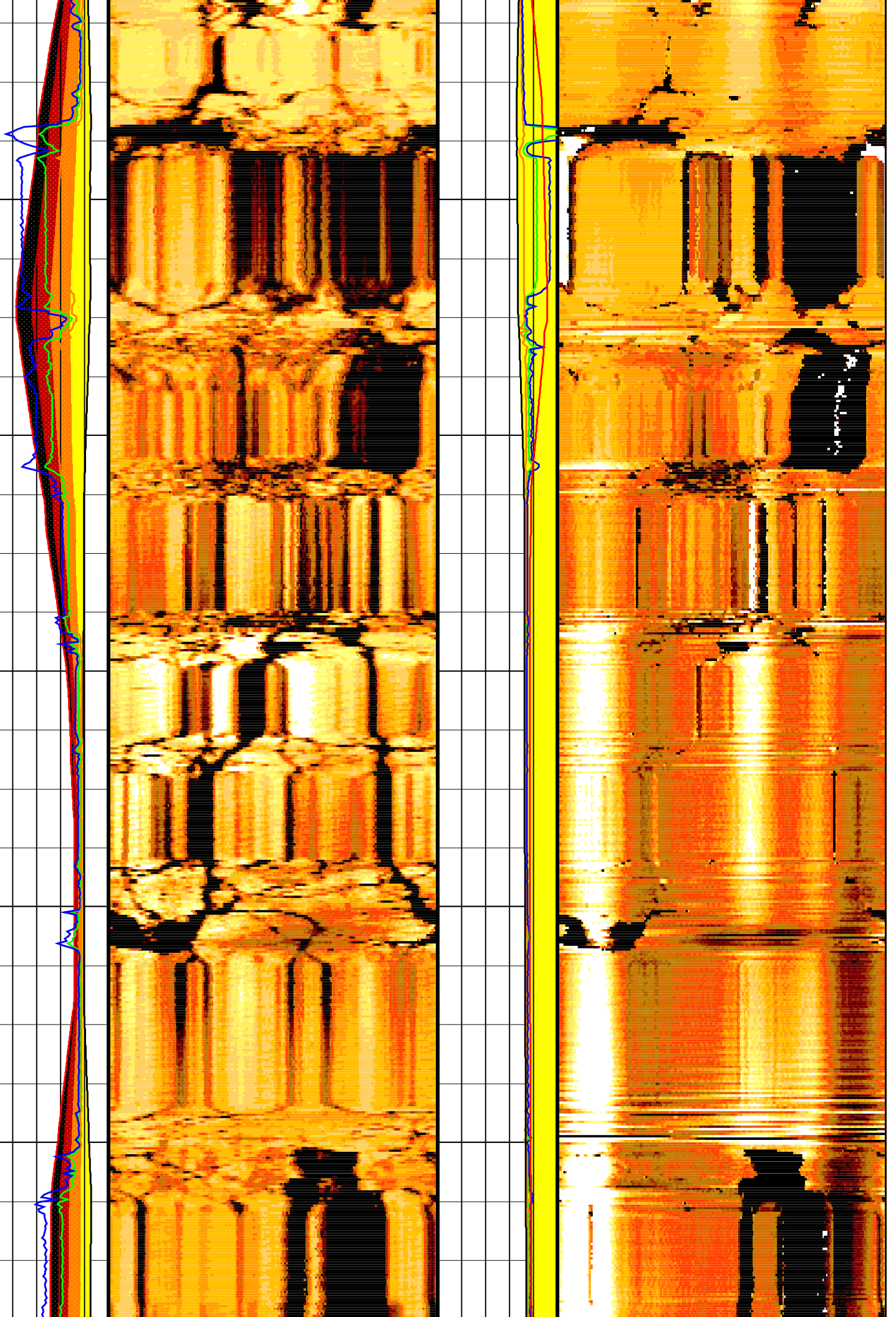
384

385

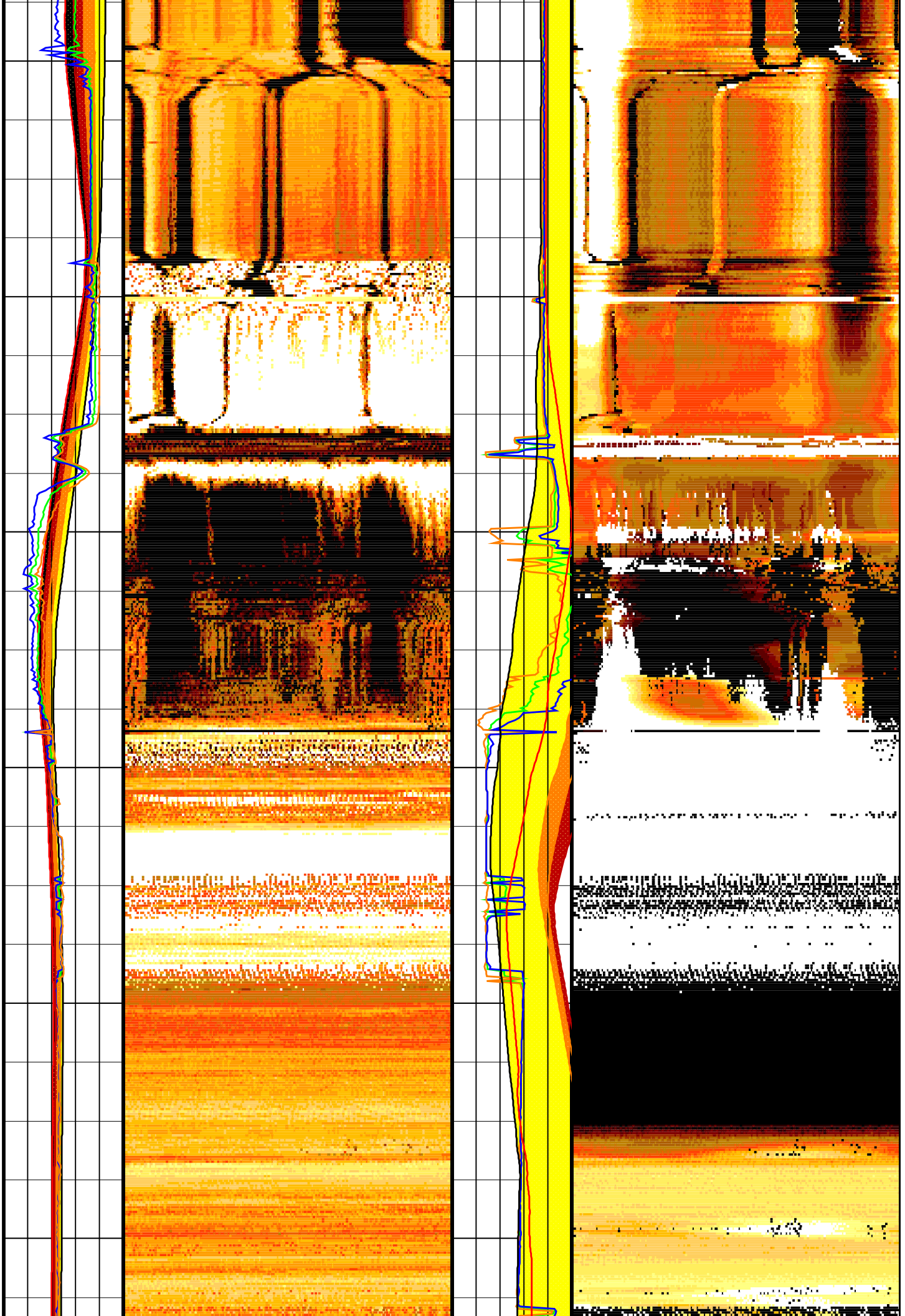
386

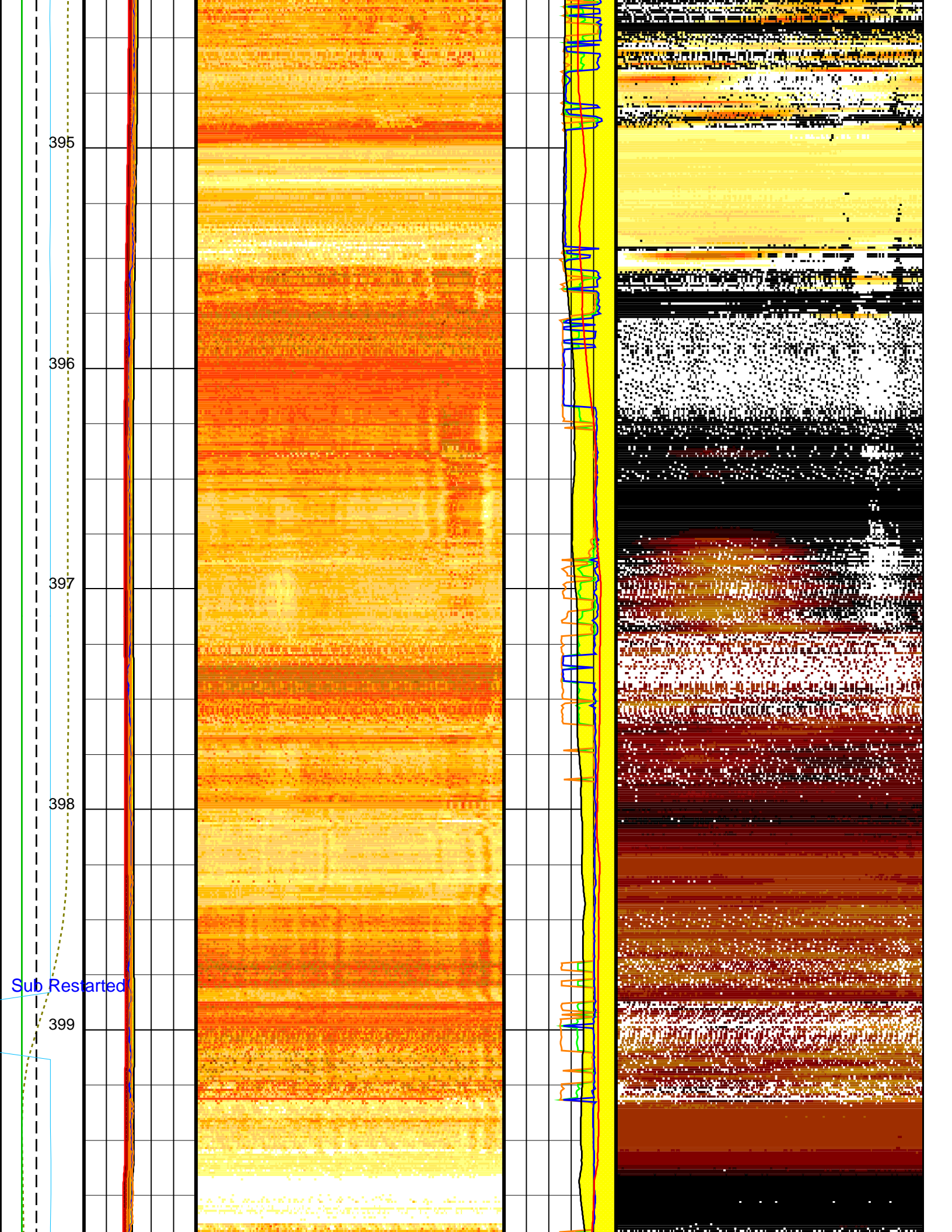
387

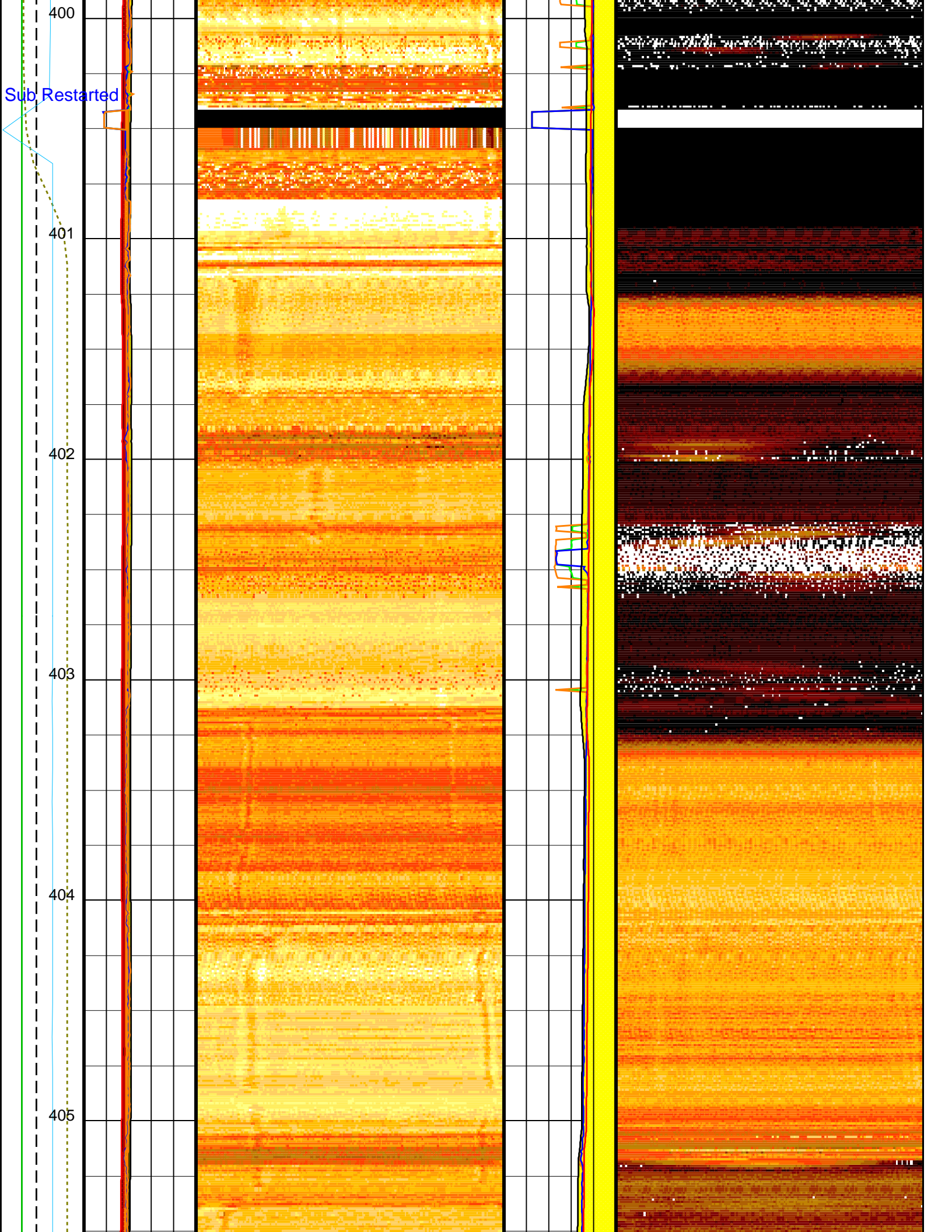
388

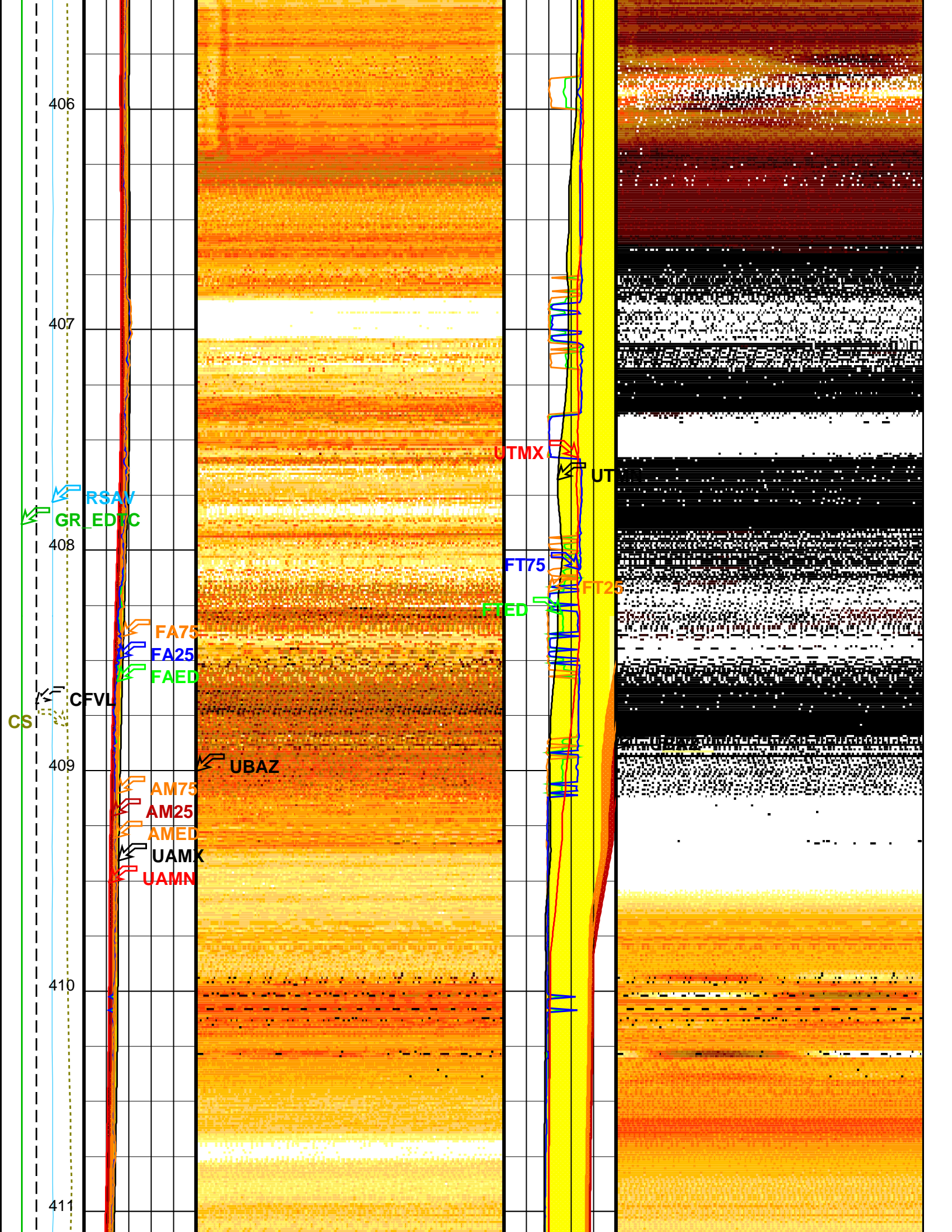


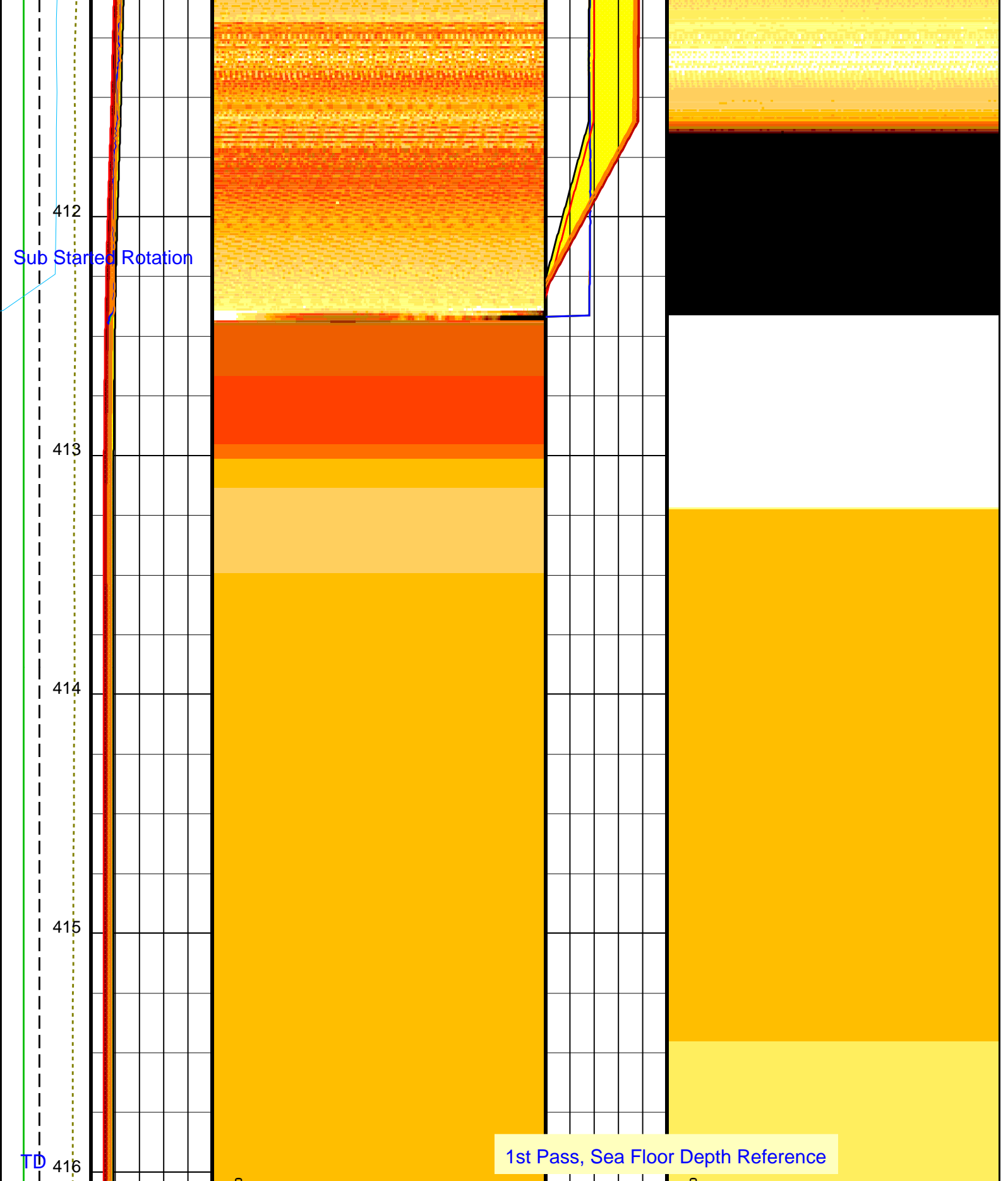
389
390
391
392
393
394











Sub Started Rotation

1st Pass, Sea Floor Depth Reference

Rev. speed (RSAV) 6 (RPS) 80
 LOW Amplitude (FA25) (DB) 50
 Cable Speed (CS) (FT25)

Corrected Amplitude (AWCN) (DB)
 -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

MEDIAN Radius (FTED) 3 (IN) 6
 Radius LOW (FT25)

Corrected transit time (TTCN) (US)
 -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

(F/HR)	(UAMIN)
0 1000	0 (DB) 50
Fluid velocity (CFVL) (US/F)	Maximum of Amplitude (UAMX)
150 250	0 (DB) 50
Gamma Ray (GR_EDTC) (GAPI)	MEDIAN of Amplitude (FAED)
0 75	0 (DB) 50
	HIGH Amplitude (FA75)
	0 (DB) 50

3 (IN) 6
Radius HIGH (FT75)
3 (IN) 6
Radius min (UTMN)
3 (IN) 6
Radius max (UTMX)
3 (IN) 6

Format: UBI_Image Vertical Scale: 1:20 Graphics File Created: 11-Dec-2012 03:23

OP System Version: 19C0-187

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

Parameters

DLIS Name	Description	Value
UBI-D: Ultrasonic Borehole Imager - D		
	Vertical Resolution	IN: 0.4
	Default Fluid Velocity	206 US/F
	UBI Tool Working Mode for FPM	UBI3_SW250_180_1
	UBI Tool Working Mode for Measurement	UBI3_SW250_180_1
AAMN	Automatic Amplitude Minimum Scale	2 DB
AGMN	Minimum Gain of Cartridge	-12DB
AGMX	Maximum Gain of Cartridge	48DB
AMCM	Amplitude - max color scale minimum	-6 DB
AMCX	Amplitude - max color scale maximum	0.2 DB
ANGO	Angular Offset	-17 DEG
ATMN	Automatic Transit Time Minimum Scale	2 US
AWMN	Amplitude Color Scale Minimum	20 DB
AWMX	Amplitude Color Scale Maximum	55 DB
CACN	Corrected Amplitude Color Scale Minimum	0 DB
CACX	Corrected Amplitude Color Scale Maximum	50 DB
CRCN	Corrected Radii Color Scale Minimum	3 IN
CRCX	Corrected Radii Color Scale Maximum	4.5 IN
CSID	Casing Inner Diameter	0 IN
DCMN	Window Decrement Down	0.8
DCMX	Window Decrement Up	0.6
DFVL	Default Fluid Velocity	193 US/F
DISI	Radial Plot Depth Increment	120
DISR	Radial Plot Display Requested	0
DOT	Diameter of Tool	1.85 IN
ECRL	Eccentering Correction Level	FIRST
EMXV	EMEX Voltage	30 V
ERDB	Eccentering Rejection	12 DB
FDOS	FVEL Depth Offset	0 M
FMOS	FVEL Measurement Offset	0 US/F
FVLM	Fluid Velocity Filter	MEAN
GCSW	Gain Correction	ON
HFLT	FVEL Filter Size	10
ICMN	Internal Corrosion Color Scale Minimum	-0.15 IN
ICMX	Internal Corrosion Color Scale Maximum	0.15 IN
IMAR	Image Rotation	OFF
INHT	FIFO Inhibition Time	Inh_29us
LIM1	Minimum Limit Control	AUTO
LIM2	Maximum Limit Control	MANUAL
MLCN	Metal Loss Color Scale Minimum	-0.15 IN
MLCX	Metal Loss Color Scale Maximum	0.15 IN
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	
RRCN	Radii Color Scale Minimum	3	IN
RRCX	Radii Color Scale Maximum	4.5	IN
SUBT	UBI Sub type	Sub_5_inch_S	
SWLV	Sliding Window Minimum	Inh_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UBI_USAC_TASK_ALLOW	UBI USAC Allow Task after Power Up	YES	
UBI_USAC_TASK_TIMEOUT	UBI USAC Task Timeout (in seconds) FOR TEST REPORT	600	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
UMFR	Modulation Frequency	500000	HZ
UPAT	Emission Pattern	Pattern_250K	
USFR	Sampling Frequency	1e+006	HZ
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI3_SW250_180_1	
VERR	acq VERTICAL Resolution	IN: 0.4	
WFVS	Vertical Sampling	0.4	IN
WINB	Window Beginning Time	18.5	US
WINE	Window end time	36	US

GPIT-A/B: General Purpose Inclinometer

ACPP	Accelerometer PROM Presence	PRESENT	
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ART	Accelerometer Reference Temperature	20	DEGC
GLM	GPIT Logging Mode	DIPM	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MAPP	Magnetometer PROM Presence	PRESENT	
MDEC	Magnetic Field Declination	-0.785248	DEG
MRTE	Magneto Reference Temperature	19	DEGC
TEMS	GPIT Temperature Sensor Used	BOTH	
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO	

HRLT-B: High Resolution Laterolog Array - B

BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	30.2229	DEGC
FREQ0	HRLT Frequency Index for Mode 0	32	
FREQ1	HRLT Frequency Index for Mode 1	128	
FREQ2	HRLT Frequency Index for Mode 2	104	
FREQ3	HRLT Frequency Index for Mode 3	86	
FREQ4	HRLT Frequency Index for Mode 4	56	
FREQ5	HRLT Frequency Index for Mode 5	44	
FREQ6	HRLT Frequency Index for Mode 6	116	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
LOOPCOEF_S	HRLT Loop Coefficient for Shallow Modes	LOW	
LOOPMOD0	HRLT Mode 0 Loop Mode	AUTO	
LOOPMOD1	HRLT Mode 1 Loop Mode	AUTO	
LOOPMOD2	HRLT Mode 2 Loop Mode	AUTO	
LOOPMOD3	HRLT Mode 3 Loop Mode	AUTO	
LOOPMOD4	HRLT Mode 4 Loop Mode	AUTO	
LOOPMOD5	HRLT Mode 5 Loop Mode	AUTO	
LOOPMOD6	HRLT Mode 6 Loop Mode	AUTO	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROCINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCM50	Mechanical Standoff Fin Size	0	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSPO	Sonde Position	Centered	
SHT	Surface Hole Temperature	30	DEGC

HLDS: Hostile Litho-Density Sonde

CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
MDEN	Matrix Density	2.71	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000	
PSDS	HLDS SS Pulse Shape Compensation DAC	30000	

PSDS	HLDS SS Pulse Shape Compensation DAC	30000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00235707	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	30	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.05984	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03642	
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	30	DEGC
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
UHSV: UBI Hole Shape Analysis			
	Vertical Resolution	IN: 0.4	
	Default Fluid Velocity	206	US/F
	UBI Tool Working Mode for FPM	UBI3_SW250_180_1	
	UBI Tool Working Mode for Measurement	UBI3_SW250_180_1	
AAMN	Automatic Amplitude Minimum Scale	2	DB
AGMN	Minimum Gain of Cartridge	-12DB	
AGMX	Maximum Gain of Cartridge	48DB	
AMCM	Amplitude - max color scale minimum	-6	DB
AMCX	Amplitude - max color scale maximum	0.2	DB
ANGO	Angular Offset	-17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
AWMN	Amplitude Color Scale Minimum	20	DB
AWMX	Amplitude Color Scale Maximum	55	DB
CACN	Corrected Amplitude Color Scale Minimum	0	DB
CACX	Corrected Amplitude Color Scale Maximum	50	DB
CRCN	Corrected Radii Color Scale Minimum	3	IN
CRCX	Corrected Radii Color Scale Maximum	4.5	IN
CSID	Casing Inner Diameter	0	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	

DFVL	Default Fluid Velocity	193	US/F
DISI	Radial Plot Depth Increment	120	
DISR	Radial Plot Display Requested	0	
DOT	Diameter of Tool	1.85	IN
ECRL	Eccentering Correction Level	FIRST	
EMXV	EMEX Voltage	30	V
ERDB	Eccentering Rejection	12	DB
FDOS	FVEL Depth Offset	0	M
FMOS	FVEL Measurement Offset	0	US/F
FVLM	Fluid Velocity Filter	MEAN	
GCSW	Gain Correction	ON	
HFLT	FVEL Filter Size	10	
ICMN	Internal Corrosion Color Scale Minimum	-0.15	IN
ICMX	Internal Corrosion Color Scale Maximum	0.15	IN
IMAR	Image Rotation	OFF	
INHT	FIFO Inhibition Time	Inh_29us	
LIM1	Minimum Limit Control	AUTO	
LIM2	Maximum Limit Control	MANUAL	
MLCN	Metal Loss Color Scale Minimum	-0.15	IN
MLCX	Metal Loss Color Scale Maximum	0.15	IN
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	
RRCN	Radii Color Scale Minimum	3	IN
RRCX	Radii Color Scale Maximum	4.5	IN
SUBT	UBI Sub type	Sub_5_inch_S	
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
UMFR	Modulation Frequency	500000	HZ
UPAT	Emission Pattern	Pattern_250K	
USFR	Sampling Frequency	1e+006	HZ
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI3_SW250_180_1	
VERR	acq VERTICAL Resolution	IN: 0.4	
WFVS	Vertical Sampling	0.4	IN
WINB	Window Beginning Time	18.5	US
WINE	Window end time	36	US

System and Miscellaneous

ALTDCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	10.750	IN
CWEI	Casing Weight	43.00	LB/F
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	-2469.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	425	M
TDD	Total Depth - Driller	2941.00	M
TDL	Total Depth - Logger	2945.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Input DLIS Files

DEFAULT	UBI_HRLA_LDL_NGS_024LUP	FN:28	PRODUCER	10-Dec-2012 03:45	2884.9 M	2608.6 M
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Output DLIS Files

DEFAULT	UBI_HRLA_LDL_NGS_059PUP	FN:78	PRODUCER	11-Dec-2012 03:23		
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Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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General Purpose Inclinator Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY

Before: 10-Dec-2012 0:37

TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	20	N/A	N/A	N/A	

YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	N/A
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A	N/A
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A	N/A

General Purpose Inclinomometer Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY

Before: 10-Dec-2012 0:37

TEMPERATURE REFERENCE :	N/A	N/A	19	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	N/A
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	N/A
SERIAL NUMBER :	N/A	N/A	428	N/A	N/A	N/A	N/A

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01

Before: 10-Dec-2012 0:38

HRLT M0-M1 Voltage Plus – 0	0	N/A	-318.8	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-328.0	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-331.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-335.1	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-324.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-321.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	320.3	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: 10-Dec-2012 0:38

HRLT M1-M2 Voltage Plus – 0	0	N/A	1754	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1803	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1817	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1838	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1783	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1765	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1768	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: 10-Dec-2012 0:38

HRLT M2-M3 Voltage Plus – 0	0	N/A	1739	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1801	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1815	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1840	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1779	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1762	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1755	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: 10-Dec-2012 0:38

HRLT A3-A4 Voltage Plus – 0	0	N/A	68340	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	70570	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	71420	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	72680	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	70230	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 5	0	N/A	69570	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 6	0	N/A	-67830	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: 10-Dec-2012 0:38

HRLT A4-A5 Voltage Plus – 0	0	N/A	68610	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 1	0	N/A	70960	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 2	0	N/A	71780	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 3	0	N/A	73000	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 4	0	N/A	70510	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 5	0	N/A	69850	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 6	0	N/A	-68170	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: 10-Dec-2012 0:38

HRLT A5-A6 Voltage Plus – 0	0	N/A	68500	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 1	0	N/A	70690	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 2	0	N/A	71540	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 3	0	N/A	72810	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 4	0	N/A	70380	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 5	0	N/A	69730	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 6	0	N/A	-67910	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: 10-Dec-2012 0:38

HRLT Torpedo-M0 Voltage – 0	0	N/A	-68190	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage – 1	0	N/A	-71000	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage – 2	0	N/A	-71840	N/A	N/A	2100	UV

HRLT Torpedo-M0 Voltage - 3	0	N/A	-73090	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-70580	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69890	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	68170	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: 10-Dec-2012 0:38

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68190	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-70980	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-71820	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-73070	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-70570	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69890	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	68150	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: 10-Dec-2012 0:38

HRLT Source Current Plus - 0	0	N/A	284.4	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: 10-Dec-2012 0:38

HRLT Vertical Voltage PI - 0	0	N/A	-321.0	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-322.1	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-324.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-326.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-314.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-325.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	327.1	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	N/A	N/A	9.681	UV

Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement

Master: 7-Dec-2012 11:55 Before: 7-Dec-2012 12:33

SS Cs Resolution Bkg	9.000	7.949	7.955	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	8.113	8.160	N/A	N/A	1.800	%
LSW1 Background	100.0	72.58	72.10	N/A	N/A	0.03000	CPS
LSW2 Background	100.0	67.65	66.06	N/A	N/A	0.03000	CPS
LSW3 Background	200.0	147.1	146.7	N/A	N/A	0.03000	CPS
LSW4 Background	250.0	177.6	177.7	N/A	N/A	0.03000	CPS
LSW5 Background	600.0	407.1	409.7	N/A	N/A	0.03000	CPS
SSW1 Background	100.0	80.02	81.32	N/A	N/A	0.03000	CPS
SSW2 Background	200.0	142.3	142.8	N/A	N/A	0.03000	CPS
SSW3 Background	500.0	388.2	386.7	N/A	N/A	0.03000	CPS
SSW4 Background	270.0	202.4	201.9	N/A	N/A	0.03000	CPS
SSW5 Background	200.0	144.6	145.9	N/A	N/A	0.03000	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement

Master: 7-Dec-2012 12:21

LSW1 Aluminum	600.0	507.4	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	724.7	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	879.9	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	444.9	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	403.6	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2408	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6511	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9016	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3596	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	428.8	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement

Master: 7-Dec-2012 12:16

LSW1 Iron	400.0	347.4	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	585.7	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	778.9	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	401.8	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	371.0	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1752	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5436	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8225	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3288	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	377.3	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration

Master: 7-Dec-2012 12:57

Before: 6-Dec-2012 8:57

HLDS Caliper Small Ring	12.00	N/A	15.67	N/A	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	19.35	N/A	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 9-Dec-2012 2:05 Before: 9-Dec-2012 2:13

Na 511 Peak Loc	40.00	39.52	39.56	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.12	15.91	N/A	N/A	2.000	%
High Voltage	1150	1182	1182	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.4	141.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.181	9.123	N/A	N/A	2.000	%
Temperature	15.50	31.95	31.97	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	16.45	16.74	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 9-Dec-2012 2:05 Before: 9-Dec-2012 2:13

Na 511 Peak Loc	40.00	39.48	39.56	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.87	16.16	N/A	N/A	2.000	%
High Voltage	1150	1114	1115	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.4	141.9	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.230	9.385	N/A	N/A	2.000	%
Temperature	15.50	32.68	32.75	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	16.90	17.23	N/A	N/A	8.000	CPS

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

Master: 9-Dec-2012 2:05 Before: 9-Dec-2012 2:13

Coincidence Count Rate Ratio	1.000	0.9742	0.9644	N/A	N/A	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 9-Dec-2012 1:59

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	210.5	--	--	--	--	
Th Peak Res	7.000	7.000	--	--	--	--	%
Background Count Rate	142.5	17.93	--	--	--	--	CPS
Gain Ratio	1.000	1.013	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 9-Dec-2012 1:59

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.2	--	--	--	--	
Th Peak Res	7.000	7.038	--	--	--	--	%
Background Count Rate	142.5	18.43	--	--	--	--	CPS
Gain Ratio	1.000	1.008	--	--	--	--	

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 10-Dec-2012 0:38

EDTC Z-Axis Acceleration	9.810	N/A	9.816	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 9-Dec-2012 2:15

Gamma Ray (Jig – Bkg)	162.4	N/A	162.4	N/A	N/A	14.77	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	N/A	N/A	15.00	GAPI

General Purpose Inclinomometer / Equipment Identification

Primary Equipment:			
GPIT Cartridge – AC	GPIC – AC	719	
Auxiliary Equipment:			
GPIT Housing	GPIH – A	2864	

High Resolution Laterolog Array – B / Equipment Identification

Primary Equipment:		
HRLT Sonde	HRLS – B	969
Auxiliary Equipment:		
HRLT lower Housing	HRLH – B	968
HRLT Lower Cartridge	HRLC – B	974
HRLT upper Housing	HRUH – B	978
HRLT Upper Cartridge	HRUC – B	764

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:

Hostile Litho Density Sonde	HLDS - D	45
Hostile Litho Density High Voltage	HLDV - D	45
Gamma Source Radioactive	GSR - Z	8113

Auxiliary Equipment:

Hostile Litho Density Pad	HLDP - C	45
Hostile Litho Density High Voltage Housi	HEH - H	47

Litho-Density Spectroscopy Cartridge - B / Equipment Identification

Primary Equipment:

LDSC Cartridge	LDSC - B	521
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Auxiliary Equipment:

LDSC Housing	LDSH - A	319
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Hostile Natural Gamma Ray Cartridge - B / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC - B	300
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Auxiliary Equipment:

HNGC Housing	HNGH - A	115
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Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde	HNGS - BA	194
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Auxiliary Equipment:

HNGS Sonde Housing	HNSH - BA	205
Gamma Source Radioactive	GSR - U	616008

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.52	Master		16.12	Master		1182
Before		39.56	Before		15.91	Before		1182
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		142.4	Master		9.181	Master		31.95
Before		141.8	Before		9.123	Before		31.97
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		16.45						
Before		16.74						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 9-Dec-2012 2:05			Before: 9-Dec-2012 2:13					

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.48	Master		15.87	Master		1114
Before		39.56	Before		16.16	Before		1115
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master		142.4	Master		9.230	Master		32.68	
Before		141.9	Before		9.385	Before		32.75	
	135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS		Value						
Master			16.90						
Before			17.23						
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 9-Dec-2012 2:05				Before: 9-Dec-2012 2:13					

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		0.9742	
Before		0.9644	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 9-Dec-2012 2:05			
Before: 9-Dec-2012 2:13			

Hostile Natural Gamma Ray Sonde Master Calibration									
Detector 1 Calibration									
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value	
Master		41.00	Master		210.5	Master		7.000	
	38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)	201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value				
Master		17.93	Master		1.013				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)			
Master: 9-Dec-2012 1:59									

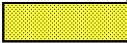


Hostile Natural Gamma Ray Sonde Master Calibration									
Detector 2 Calibration									
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value	
Master		41.00	Master		209.2	Master		7.038	
	38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)	201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value				
Master		18.43	Master		1.008				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)			
Master: 9-Dec-2012 1:59									

Enhanced DTS Cartridge / Equipment Identification		
Primary Equipment:		
EDTC Gamma Ray Detector	EDTG - A/B	77693
Enhanced DTS Cartridge	EDTC - B	8529
Auxiliary Equipment:		
EDTC Housing	EDTH - B	8528

Enhanced DTS Cartridge Wellsite Calibration			
EDTC Accelerometer Calibration			
Phase	EDTC Z-Axis Acceleration M/S2	Value	
Before		9.816	
	9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)
Before: 10-Dec-2012 0:38			

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		6.074	Before		162.4	Before		164.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	147.7 (Minimum)	162.4 (Nominal)	177.2 (Maximum)	149.0 (Minimum)	164.0 (Nominal)	179.0 (Maximum)

Before: 9-Dec-2012 2:15

Company: **Lamont Doherty****Schlumberger**Well: **Expedition 344, Site U1414A**Field: **Costa Rica Seismogenesis (CRISP-A2)**Rig: **JOIDES Resolution**Ocean: **Pacific**

Ultrasonic Borehole Imager (UBI)

RAW Images

Gamma Ray