Schlumberger

Company: **Lamont Doherty Earth Observatory**

Well: **Expedition 346, Site U1423C**
Field: **Asian Monsoon**
Rig: **JOIDES Resolution** Country: **USA**

Rig: JOIDES Resolution
Field: Asian Monsoon
Location: Latitude: N 43* 45.9897'
Well: Expedition 346, Site U1423C
Company: Lamont Doherty Earth Observato

FMS Microresistivity

LOCATION

Latitude: N 43* 45.9897'
Longitude: W 138* 50.0002'

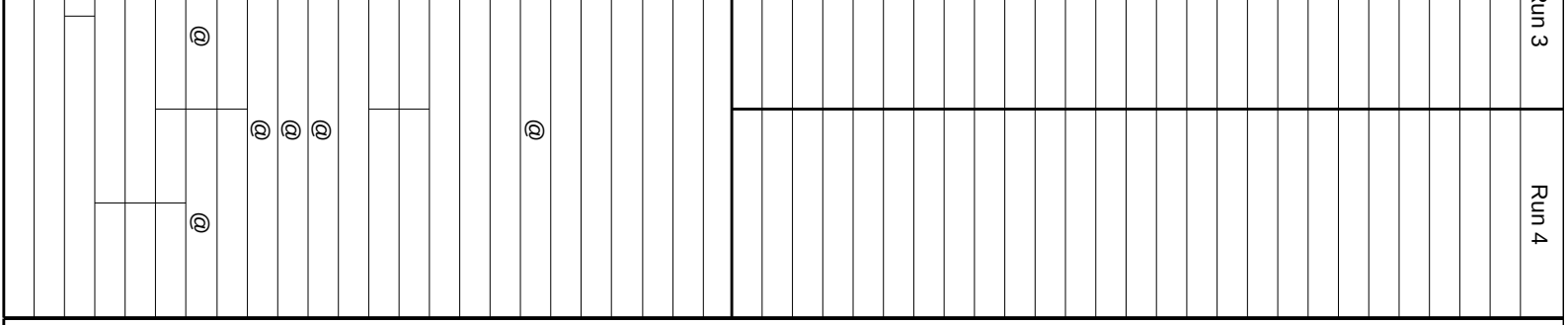
Elev.: K.B. −1796.00 m
G.L. 0.00 m
D.F. −1796.00 m

Permanent Datum: Sea Floor — Elev.: 0.00 m
Log Measured From: Drill Floor — −1796.00 m above Perm. Datum
Drilling Measured From: Drill Floor

Ocean:	Max. Well Deviation	Longitude	Latitude
Pacific	0 deg	W 138.83334	N 43.7665

	Run 1	Run 2	
Logging Date	24−Aug−2013		
Run Number	2		
Depth Driller	249.1 m		
Schlumberger Depth	249 m		
Bottom Log Interval	248.5 m		
Top Log Interval	109.6 m		
Casing Driller Size @ Depth	5.500 in @ 80 m	@	
Casing Schlumberger	80 m		
Bit Size	9.875 in		
Type Fluid In Hole	Seawater		
MUD Density / Viscosity	1.03 g/cm3		
MUD Fluid Loss / PH			
MUD Source Of Sample	N/A		
RM @ Measured Temperature	@	@	
RMF @ Measured Temperature	@	@	
RMC @ Measured Temperature	@	@	
Source RMF / RMC	N/A / N/A		
RM @ MRT / RMF @ MRT	@ 15 / @ 15	@ / @	
Maximum Recorded Temperatures	15 degC		
Circulation Stopped / Time	24−Aug−2013 / 8:00		
Logger On Bottom / Time	24−Aug−2013 / 1:00		
Unit Number / Location	625003 / Houston		
Recorded By	C. Furman		
Witnessed By	J. Lofi		

	Run 1	Run 2	R
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
MUD Density / Viscosity			
MUD Fluid Loss / PH			
MUD Source Of Sample			
RM @ Measured Temperature	@		
RMF @ Measured Temperature	@		
RMC @ Measured Temperature	@		
Source RMF / RMC			
RM @ MRT / RMF @ MRT	@	@	
Maximum Recorded Temperatures			
Circulation Stopped / Time			
Logger On Bottom / Time			
Unit Number / Location			
Recorded By			
Witnessed By			



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OTHER SERVICES1

OS1: HNGS
OS2: HRLA
OS3: HLDS
OS4: MSS
OS5: DSI

REMARKS: RUN NUMBER 1

Hole drilled and cored using APC/XCB coring system.
Modified MCD devices run above and below DSI for centralization.
FMS Caliper closed during downlog; Opened at TD (fully open by 245mbsf); Closed at 110mbsf on up logs.
FMS EMEX power disabled during downlog −− no microresistivity data recorded during down pass.
EMEX applied in automatic mode from TD to 109.6mbsf during up passes; FMS valid only while EMEX is on.
FMS print data generated by client.

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:		19C0−187	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

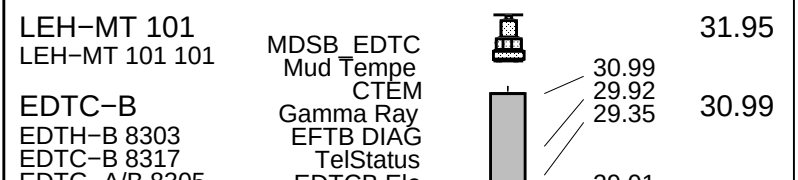
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

WITM (EDTS)−A 1

DOWNHOLE EQUIPMENT

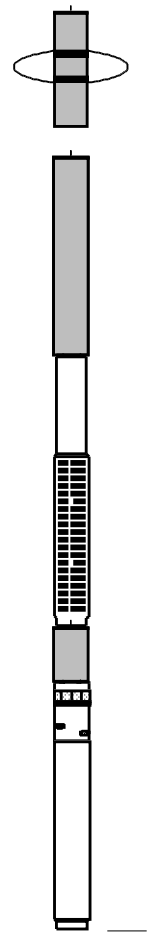


EDTG−A/B 8305

EDTCB Ele — 29.01

AH−MCD1 — 29.01
AH−MCD1 1

DSST−B — 26.73
SPAC−B 16
ECH−SD 16
SMDR−BD 8232
SSIJ−BA 8192
SMDX−AA 8194

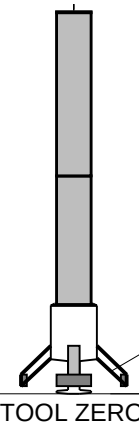


PWF — 11.18

AH−MCD — 11.18
AH−MCD 82

DTA−A — 8.90
ECH−KE 8451
DTA−A 8259

MEST−B — 7.68
MEAH−B 769
MEAC−A 875
MEPH−A 702
GPIC−AC 840
MEPC−AB 807
MEDS−B 724

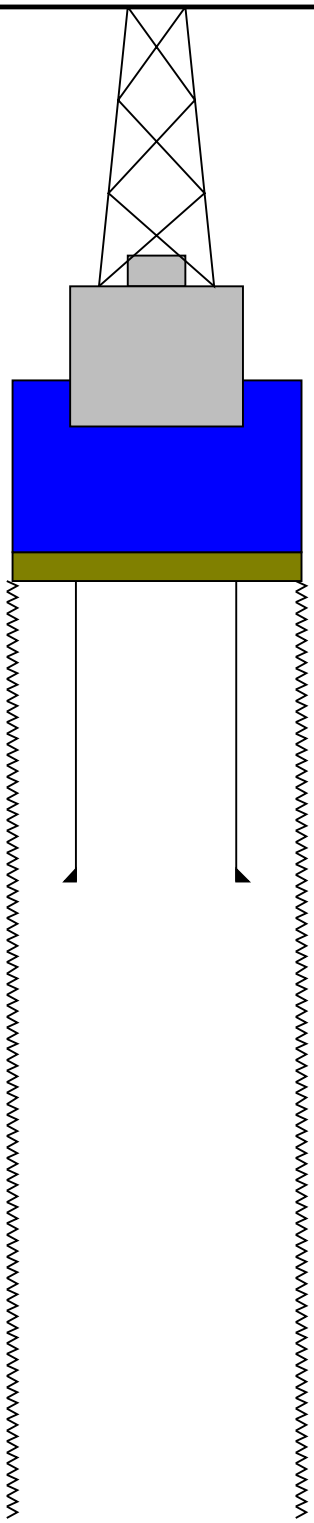


MEDR MEAC
MEPC MEDS−B — 0.46
HV DF ACCZ
Tension GPIT — 0.00
TOOL ZERO

MAXIMUM STRING DIAMETER 4.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

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

	OD	ID	MD
Kelly Bushing Elevation			−1796.8
Derrick Floor Elevation			−1796.8
Mean Sea Level			−1785.8



MD	OD	ID	
0.0	9.875	4.000	Sea Floor
80.0	5.500	4.000	Bit
249.1	9.875		TD − Driller

Schlumberger

First Pass

MAXIS Field Log

Company: Lamont Doherty Earth Observatory **Well: Expedition 346, Site U1423C**

Input DLIS Files

DEFAULT	FMS_DSI_028LUP	FN:31	PRODUCER	23−Aug−2013 16:57	2045.8 M	1884.4 M

Output DLIS Files

DEFAULT	FMS_DSI_056PUP	FN:71	PRODUCER	24−Aug−2013 13:41	250.5 M	89.2 M
CLIENT	FMS_DSI_056PUC	FN:72	CUSTOMER	24−Aug−2013 13:41	250.5 M	89.2 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

	Relative Bearing (RB_MEST) −40 (DEG) 360		Data Button 8 − Varies with RBS (U−MEST_RB8) −80 (−−−−) 20
	Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 7 − Varies with RBS (U−MEST_RB7) −70 (−−−−) 30
	Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40
	Gamma Ray (GR_EDTC) 0 (GAPI) 100		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50
	Deviation (DEVIM) 0 (DEG) 10		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60
	Caliper 2 (C2) 0 (IN) 20		Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70
	Caliper 1 (C1) 0 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	Data Button 2 − Varies with RBS (U−MEST_RB2) −20 (−−−−) 80
Tension (TENS) (LBF) 0 5000	Bit Size (BS) 0 (IN) 20	EMEX Voltage (EV) 0 (V) 50	Data Button 1 − Varies with RBS (U−MEST_RB1) −10 (−−−−) 90

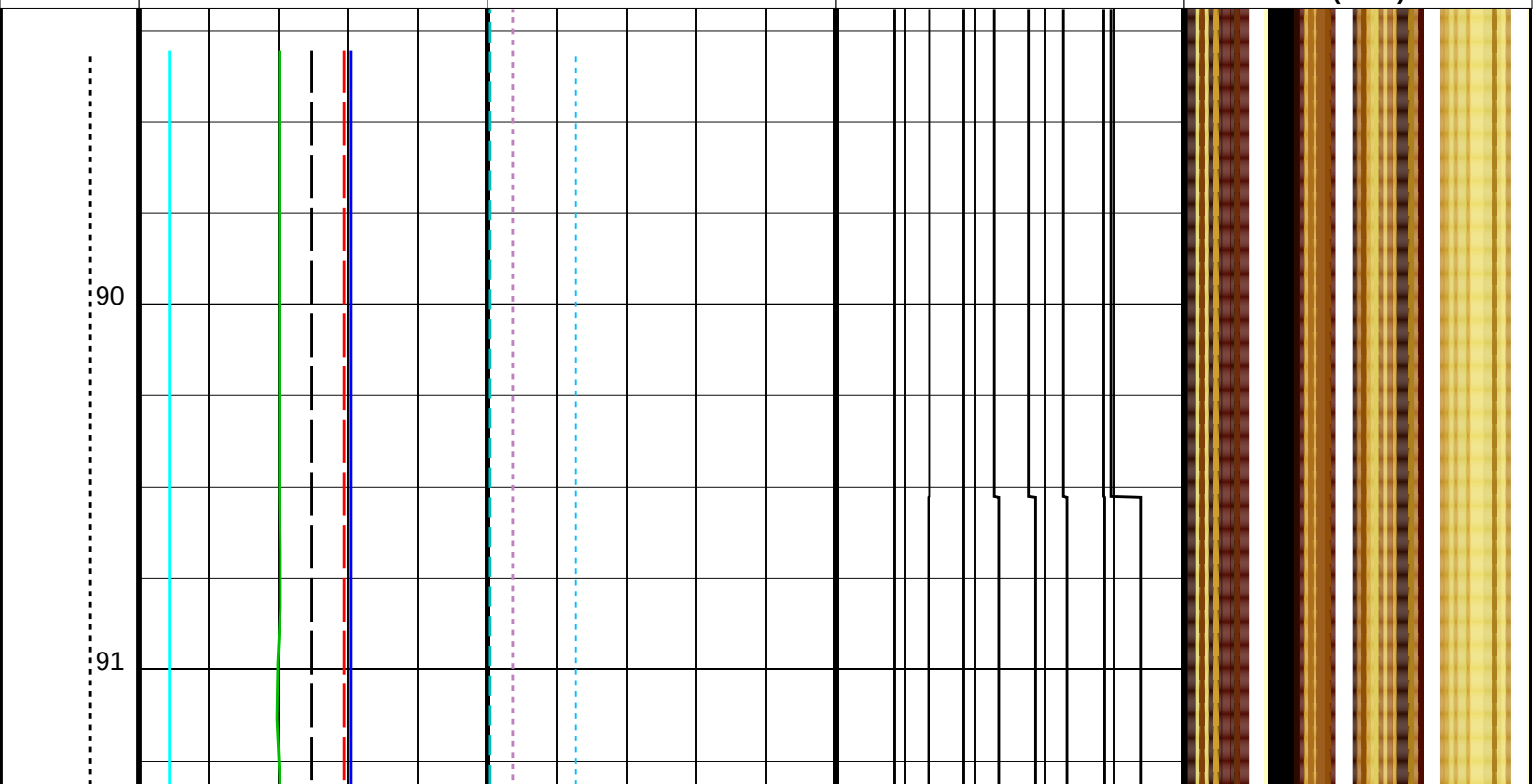
3.2844 4.1540 4.5888 4.9149 5.2410 5.3498 5.5672 5.6758 5.7846 5.8933 6.0020 6.1107 6.2194 6.3281 6.5455 6.9803

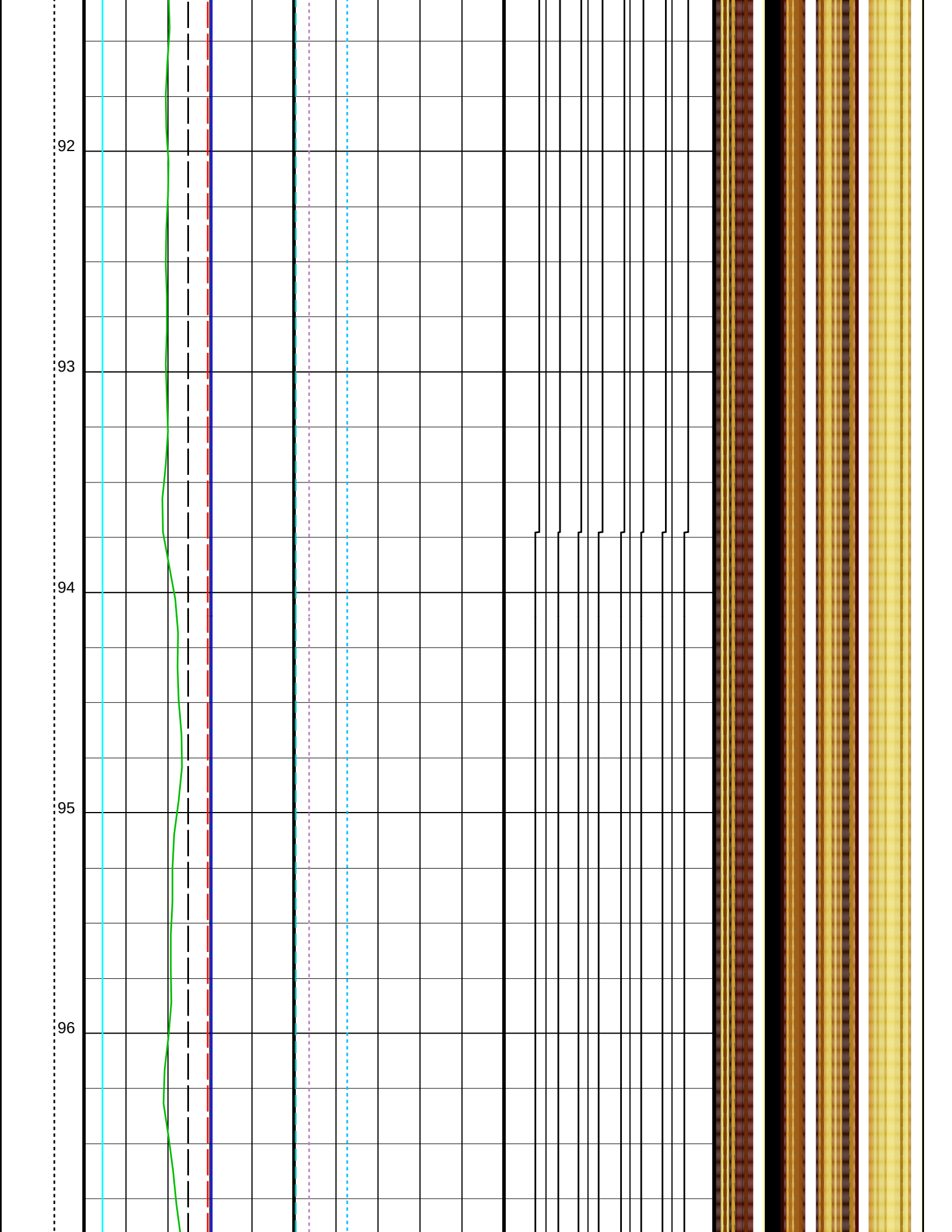
MEST_PADD (U−MEST_RESISTIVITY_PADD_DS) (−−−−)

MEST_PADC (U−MEST_RESISTIVITY_PADC_DS) (−−−−)

MEST_PADB (U−MEST_RESISTIVITY_PADB_DS) (−−−−)

MEST_PADA (U−MEST_RESISTIVITY_PADA_DS) (−−−−)

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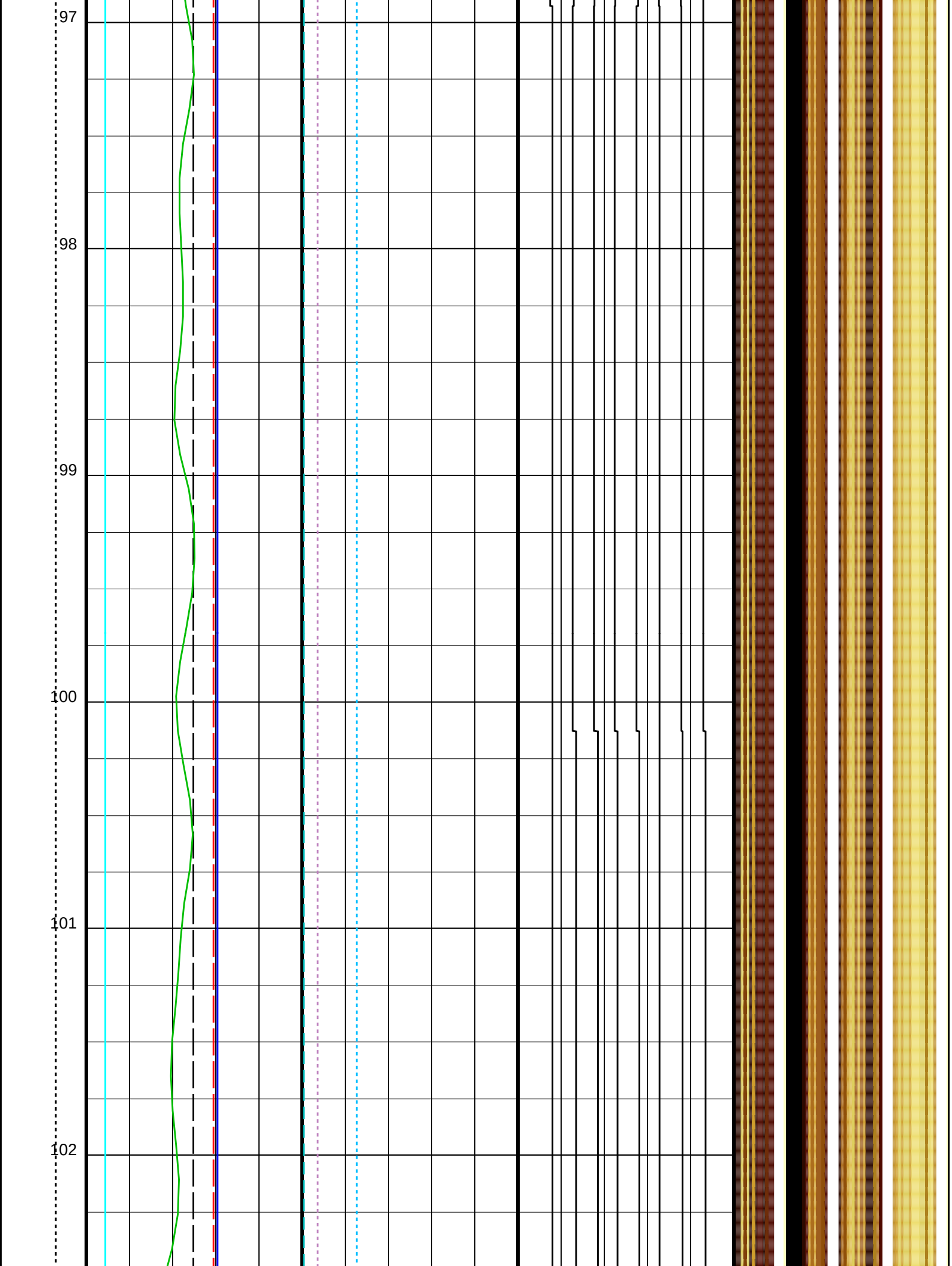
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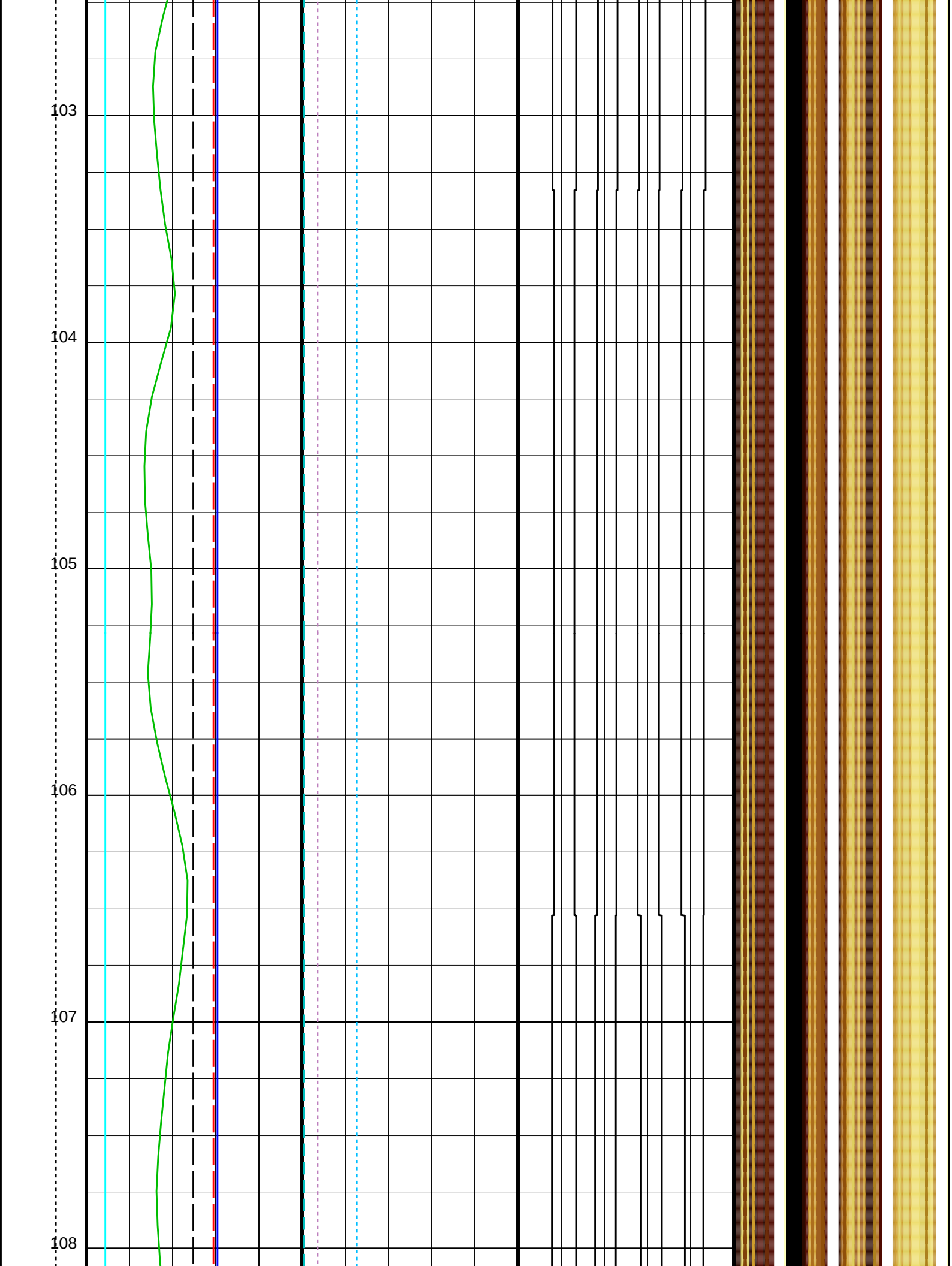
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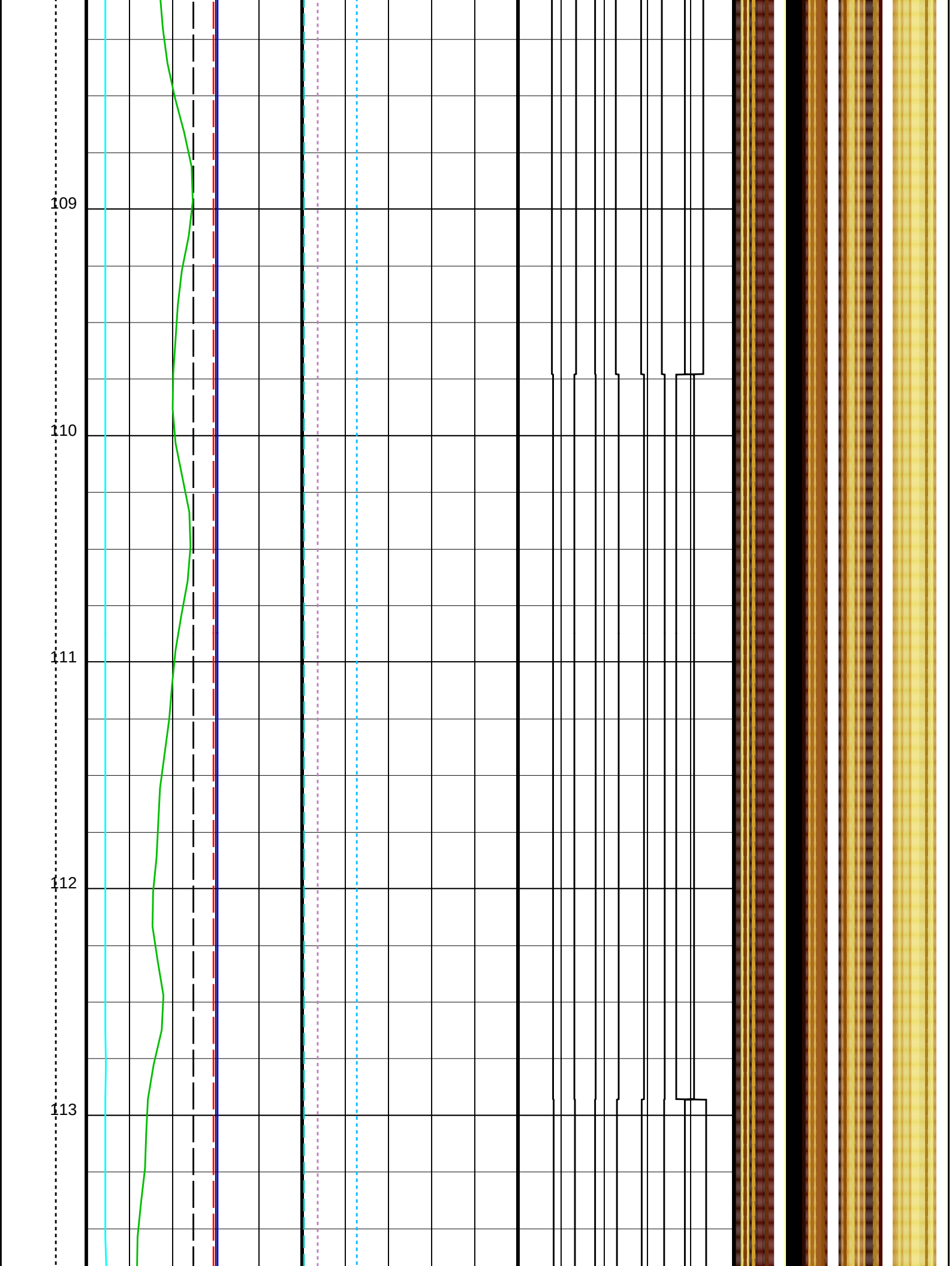
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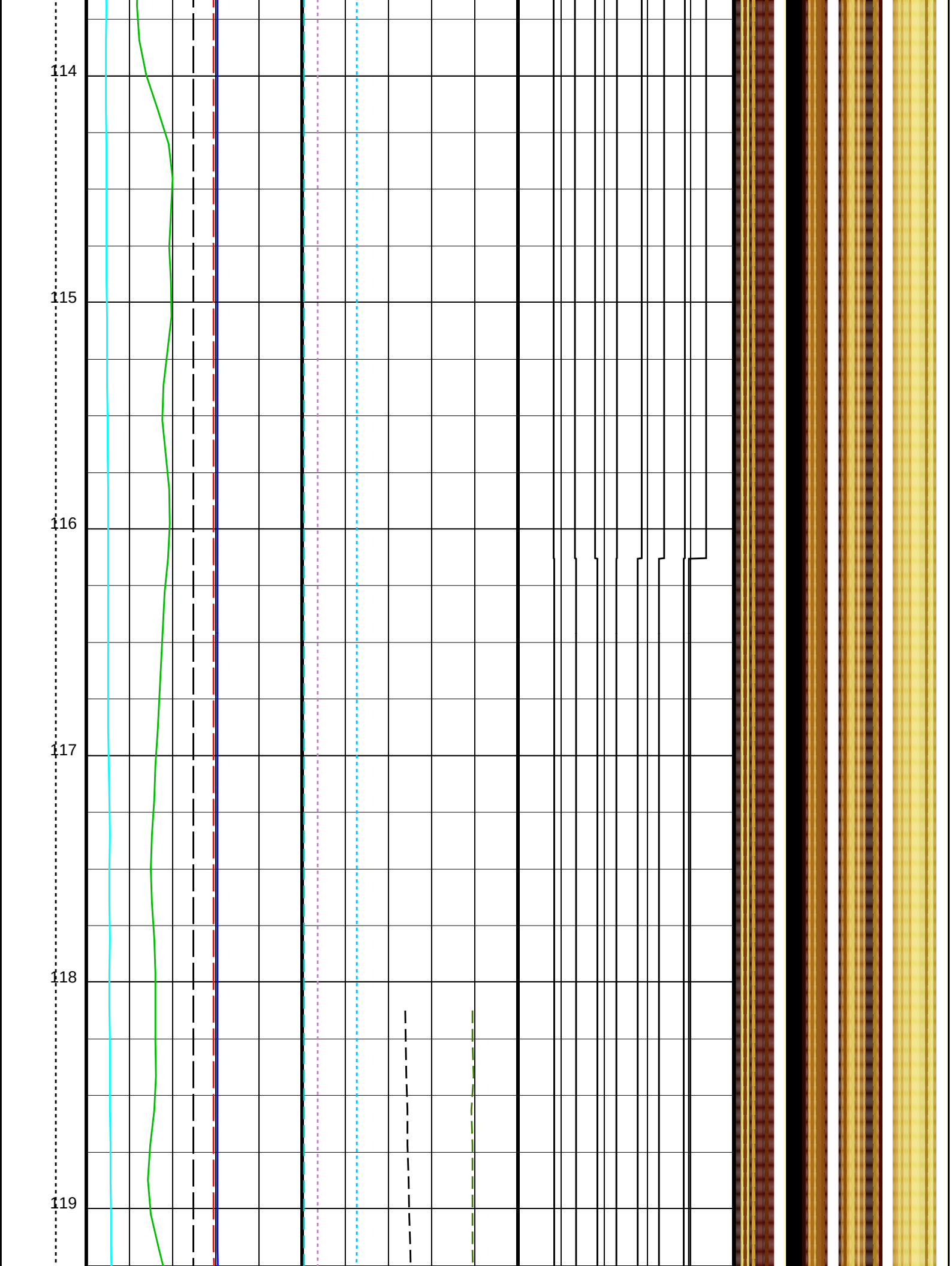
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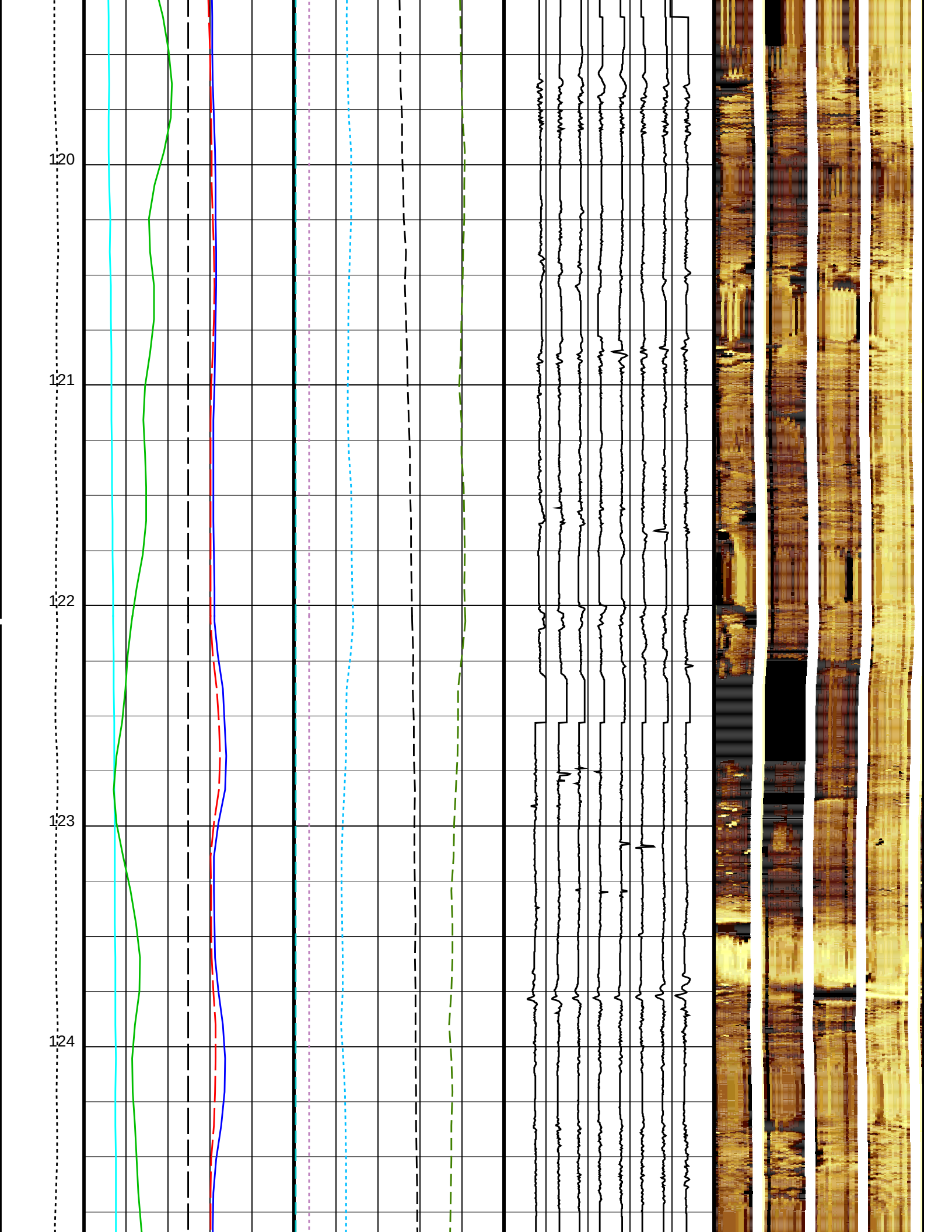
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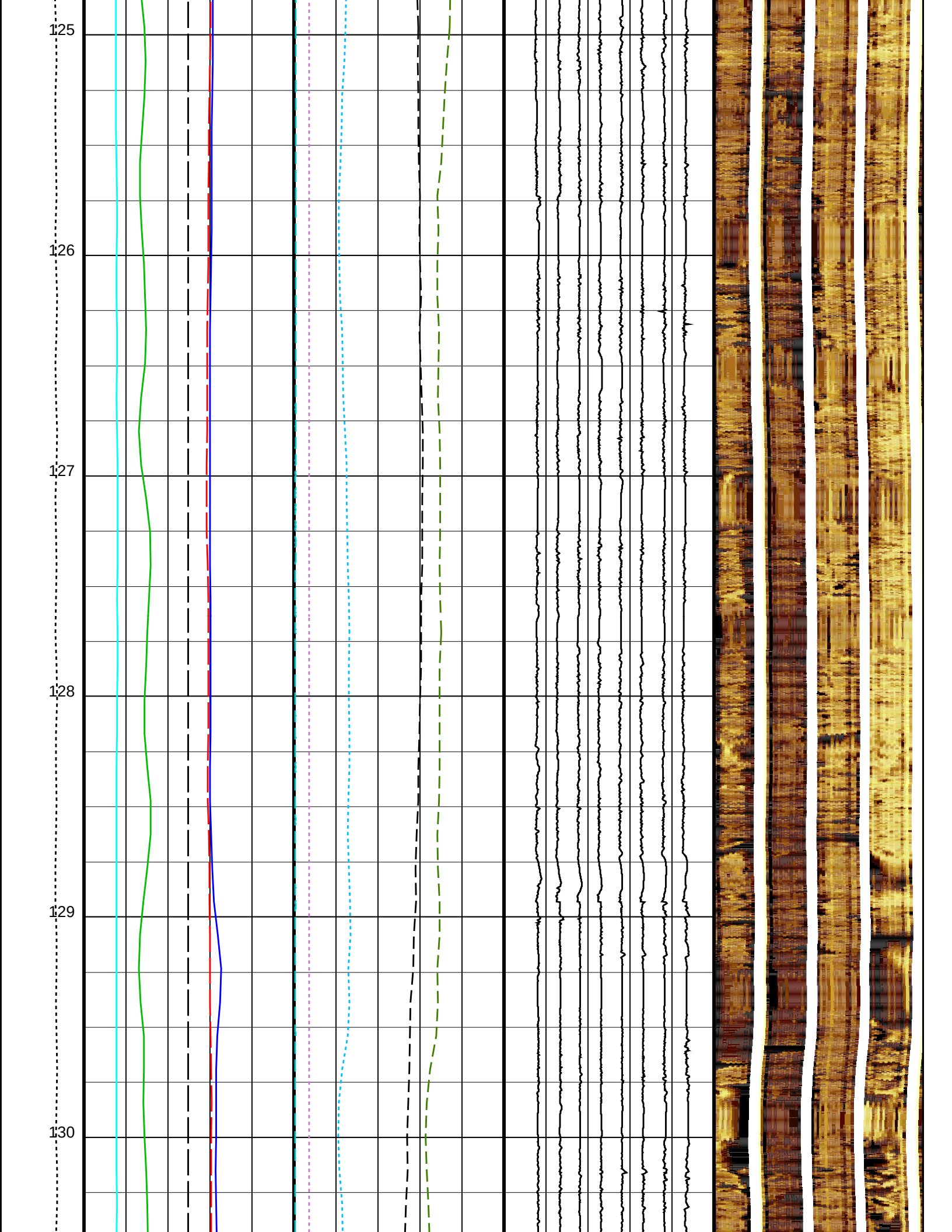
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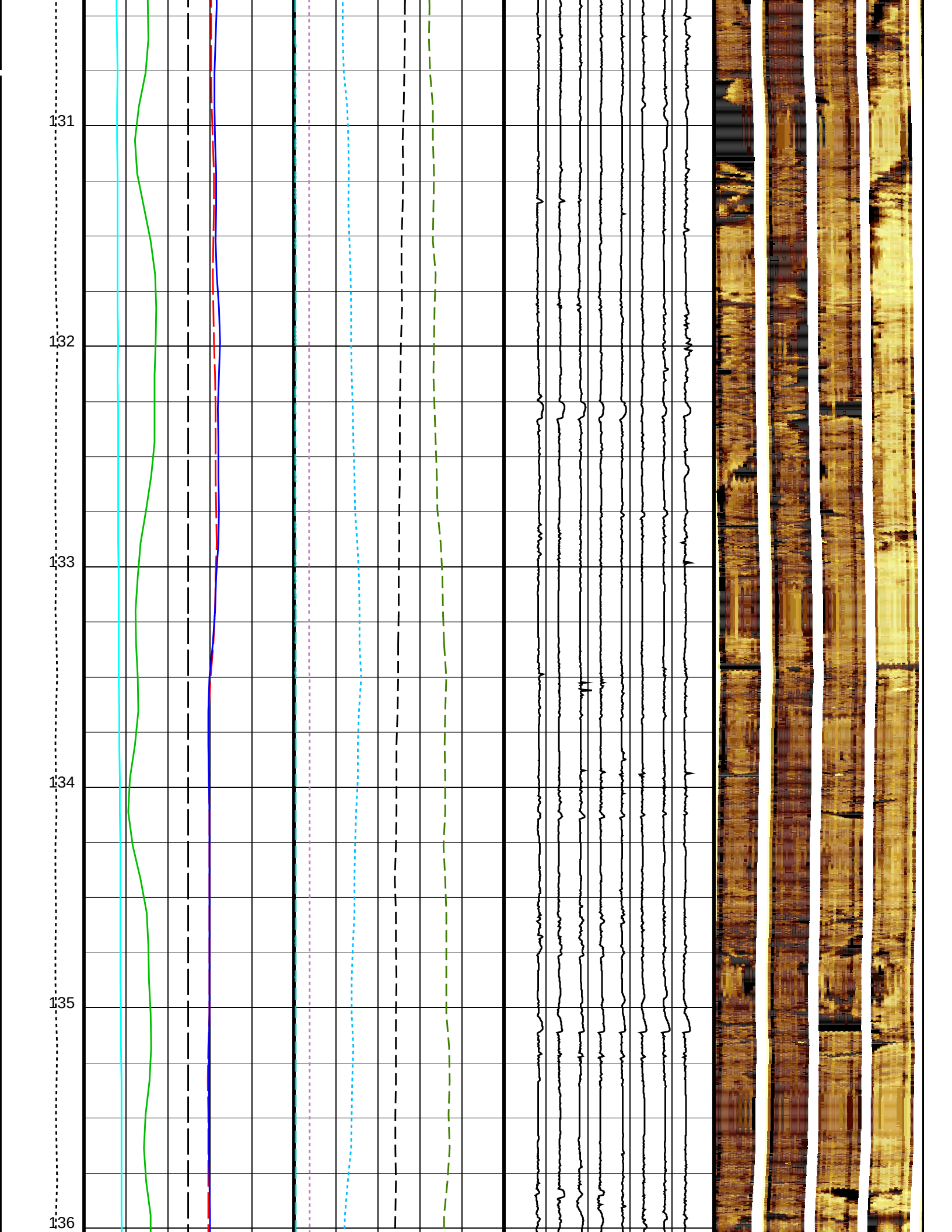
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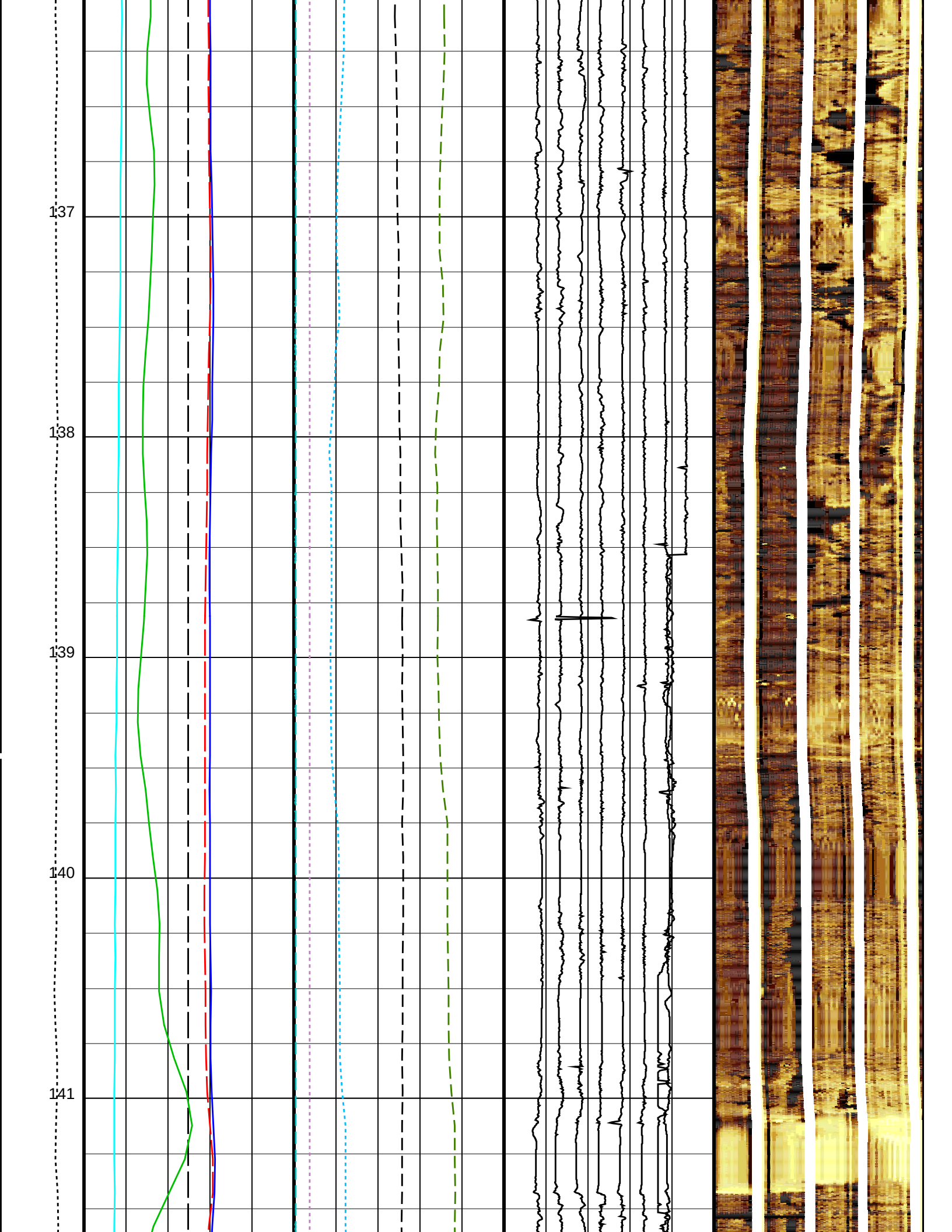
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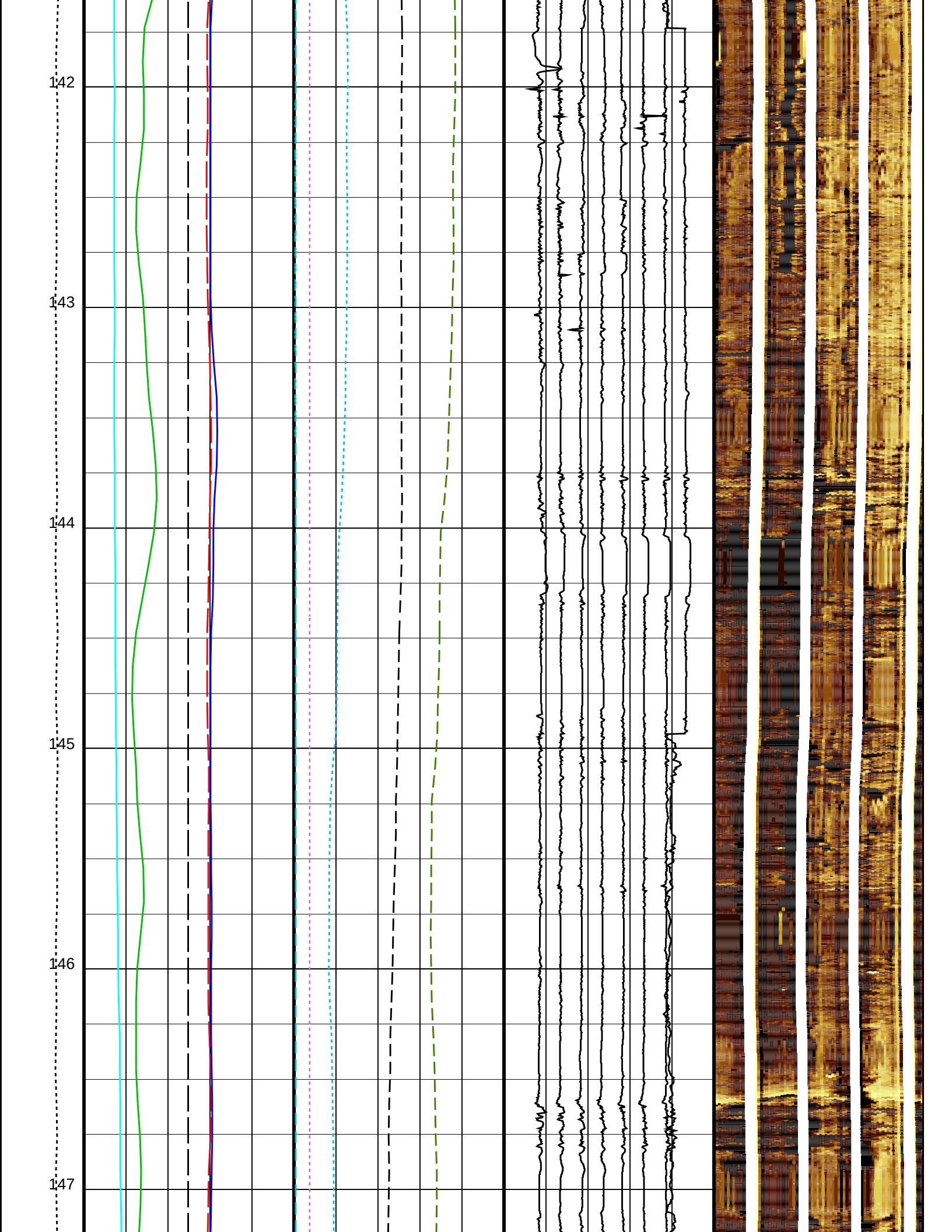
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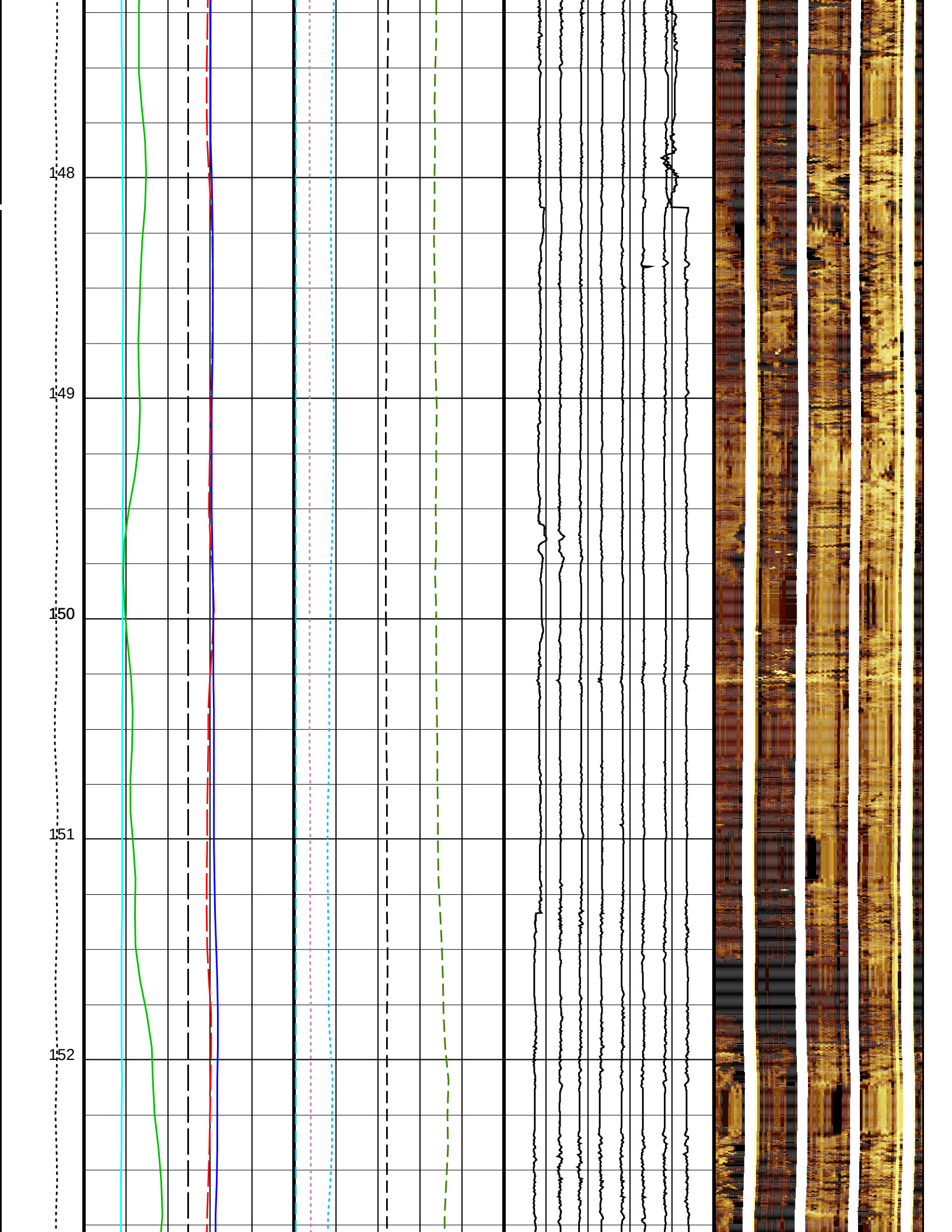
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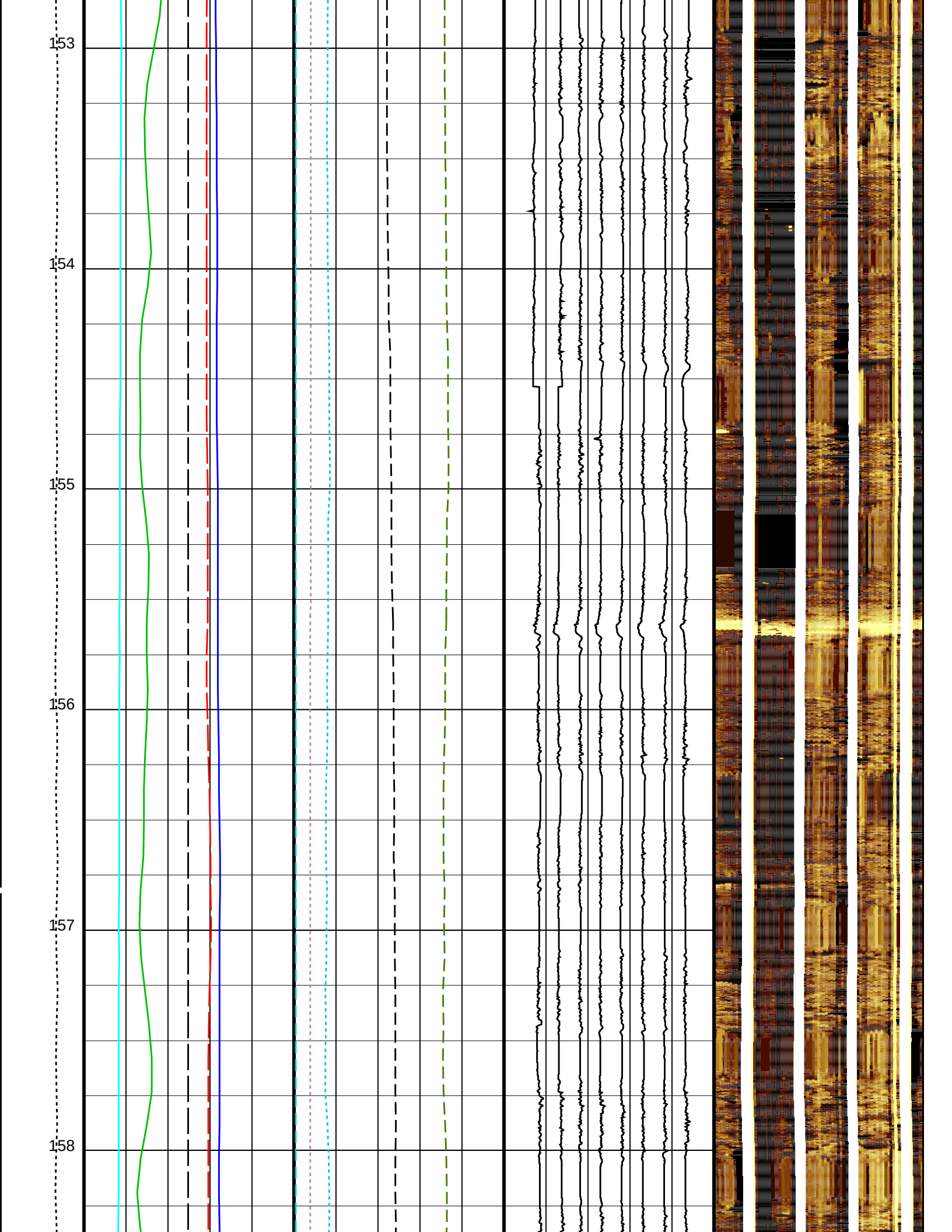
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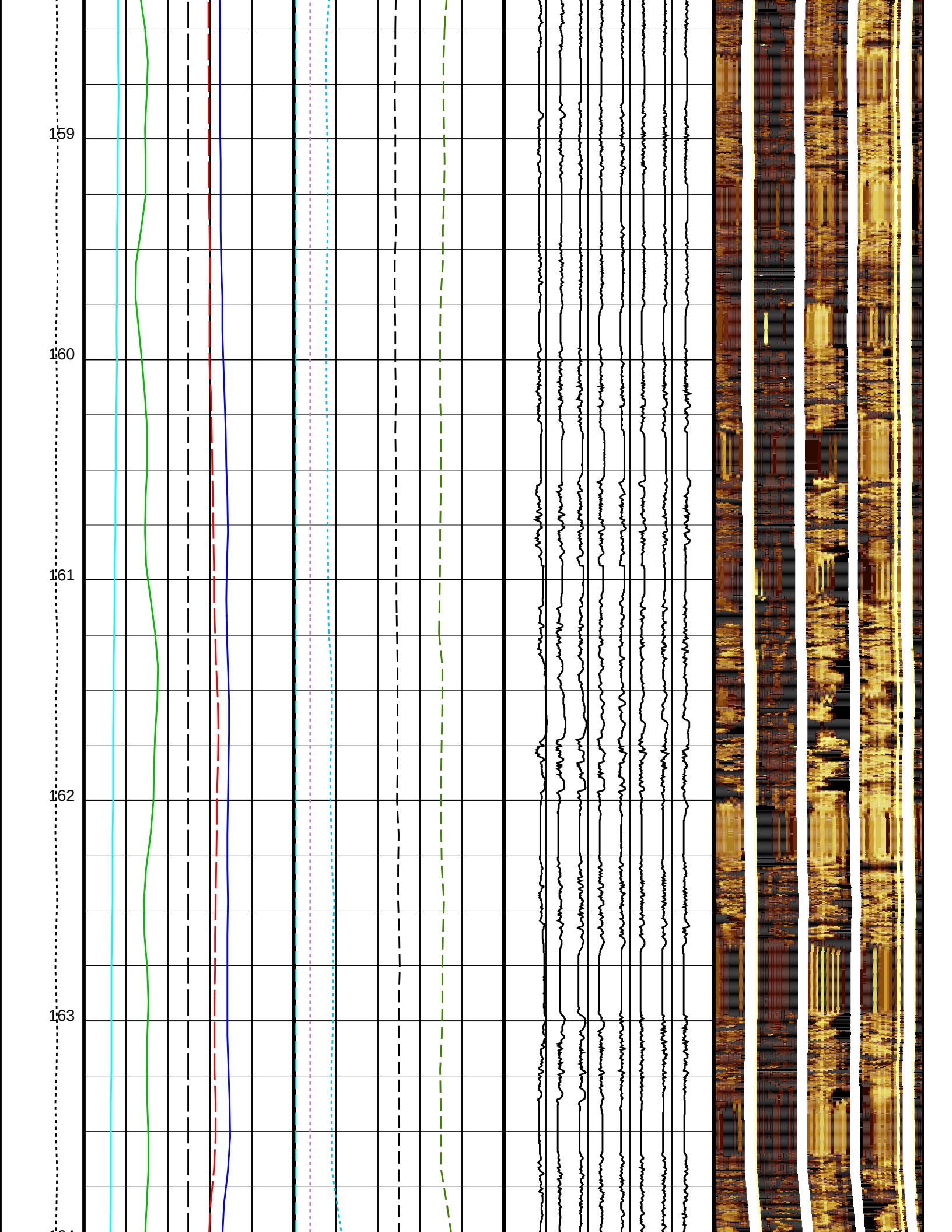
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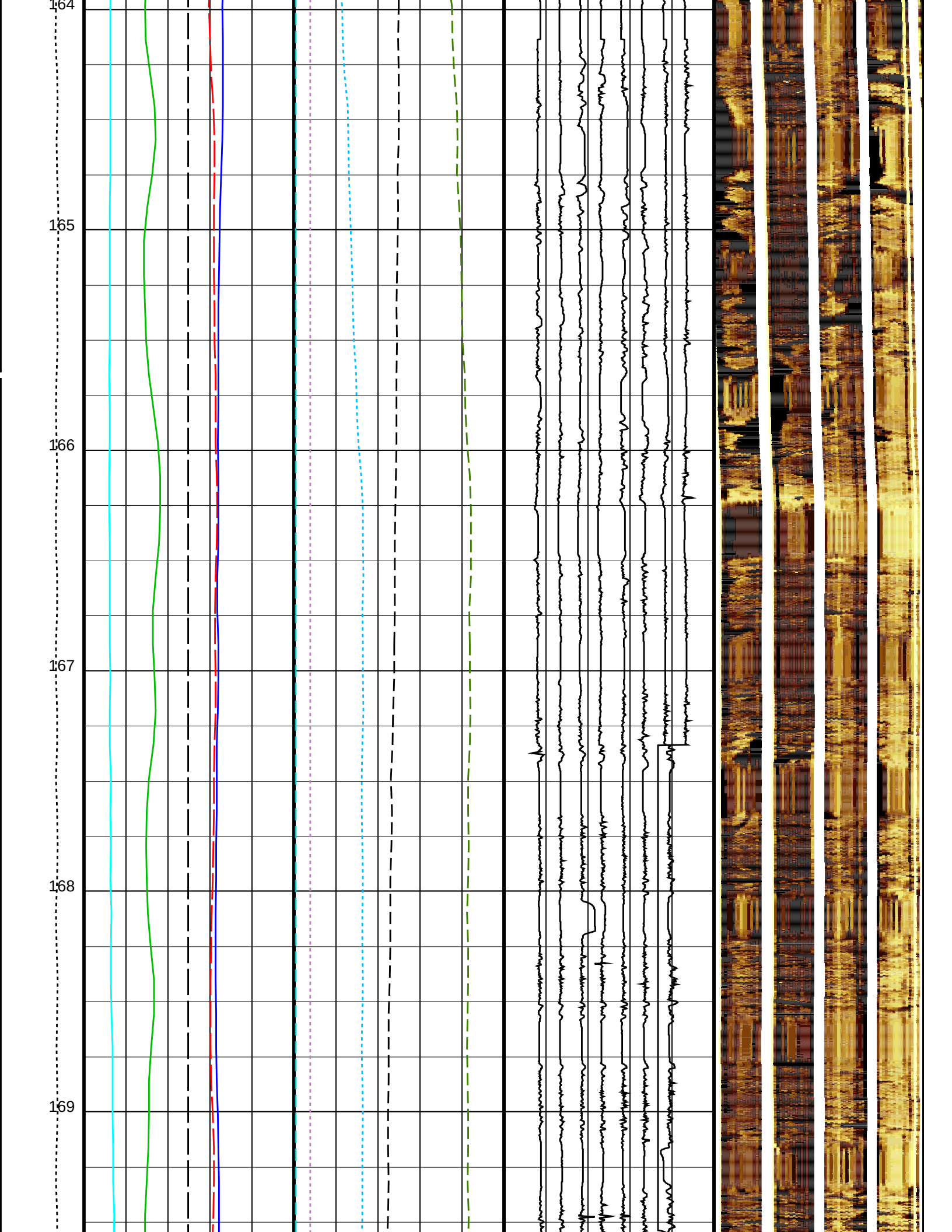
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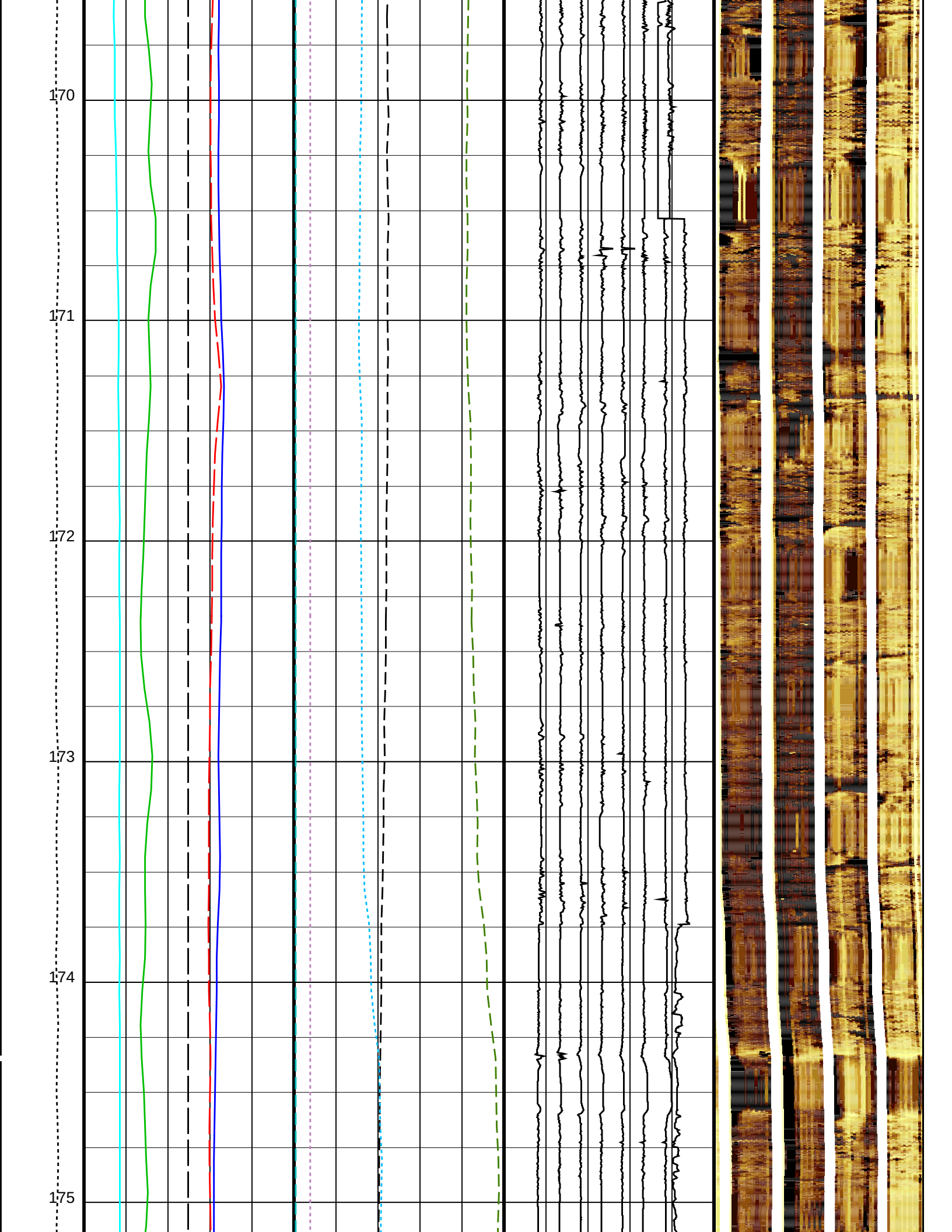
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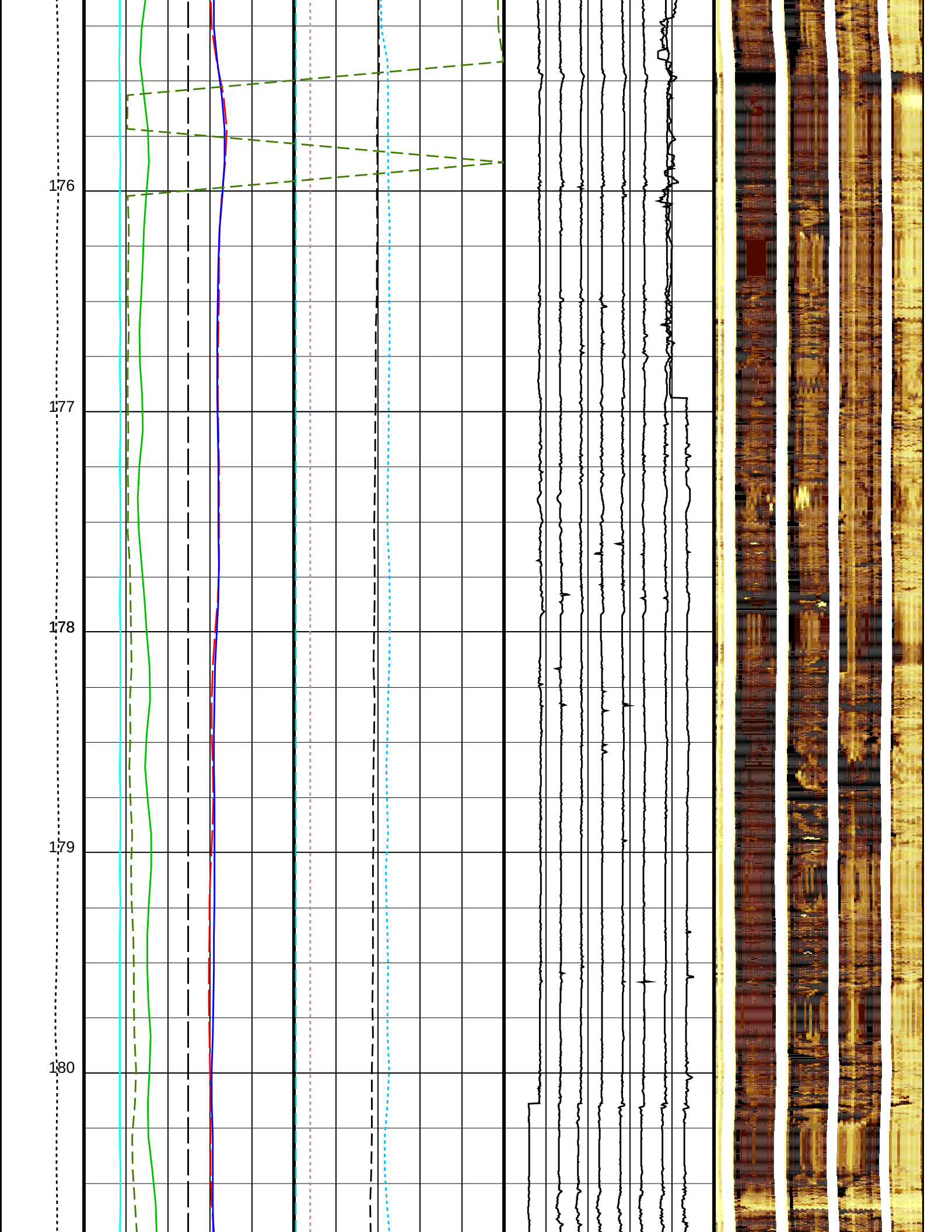
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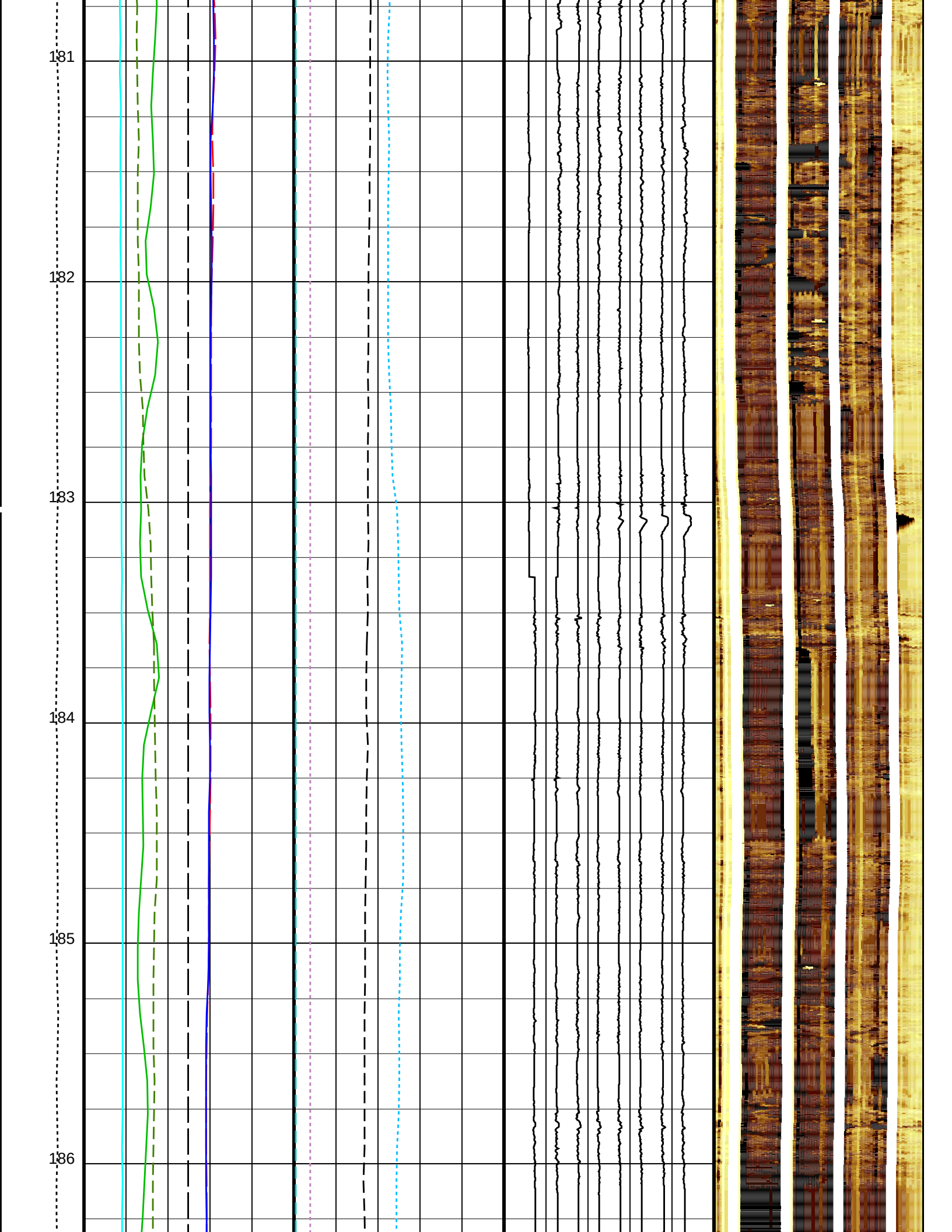
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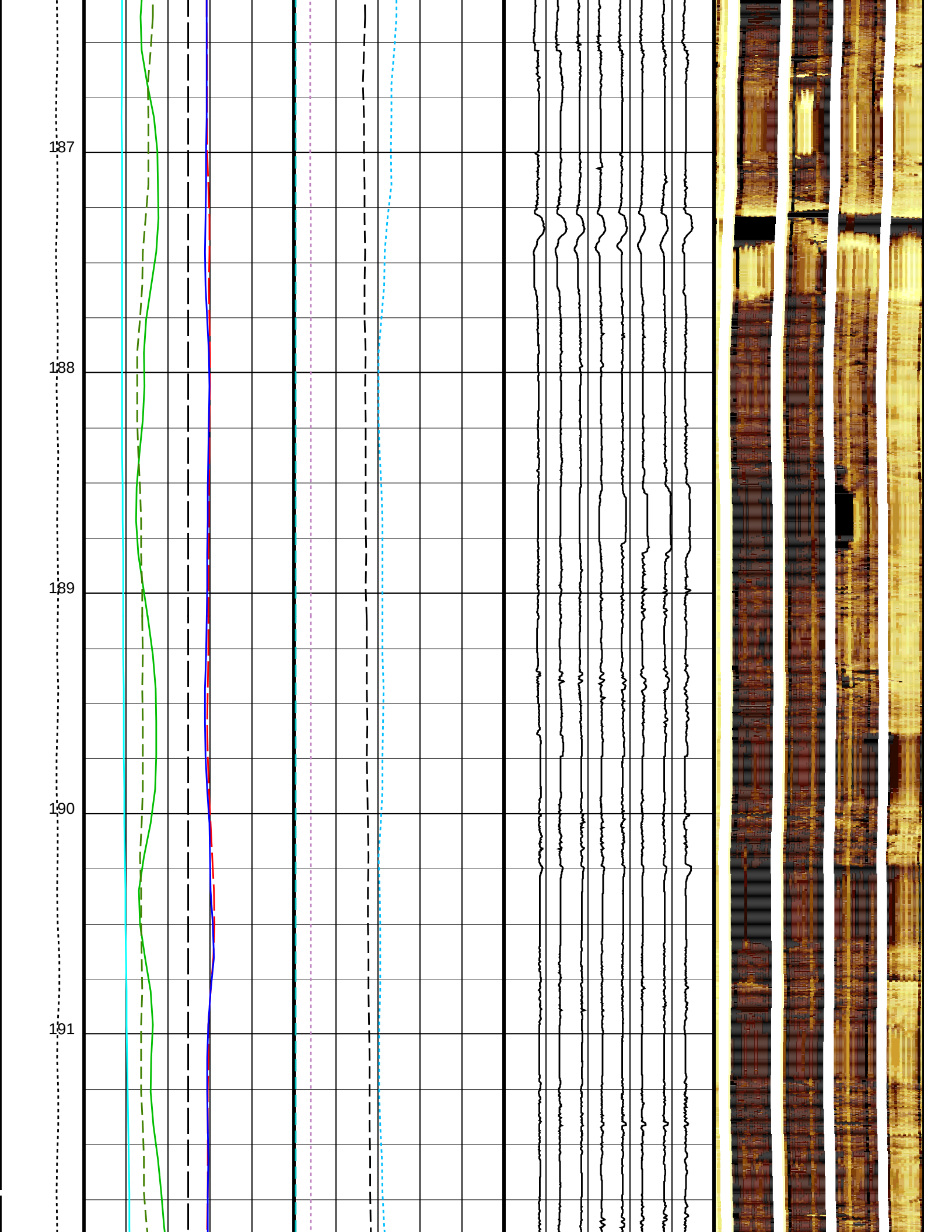
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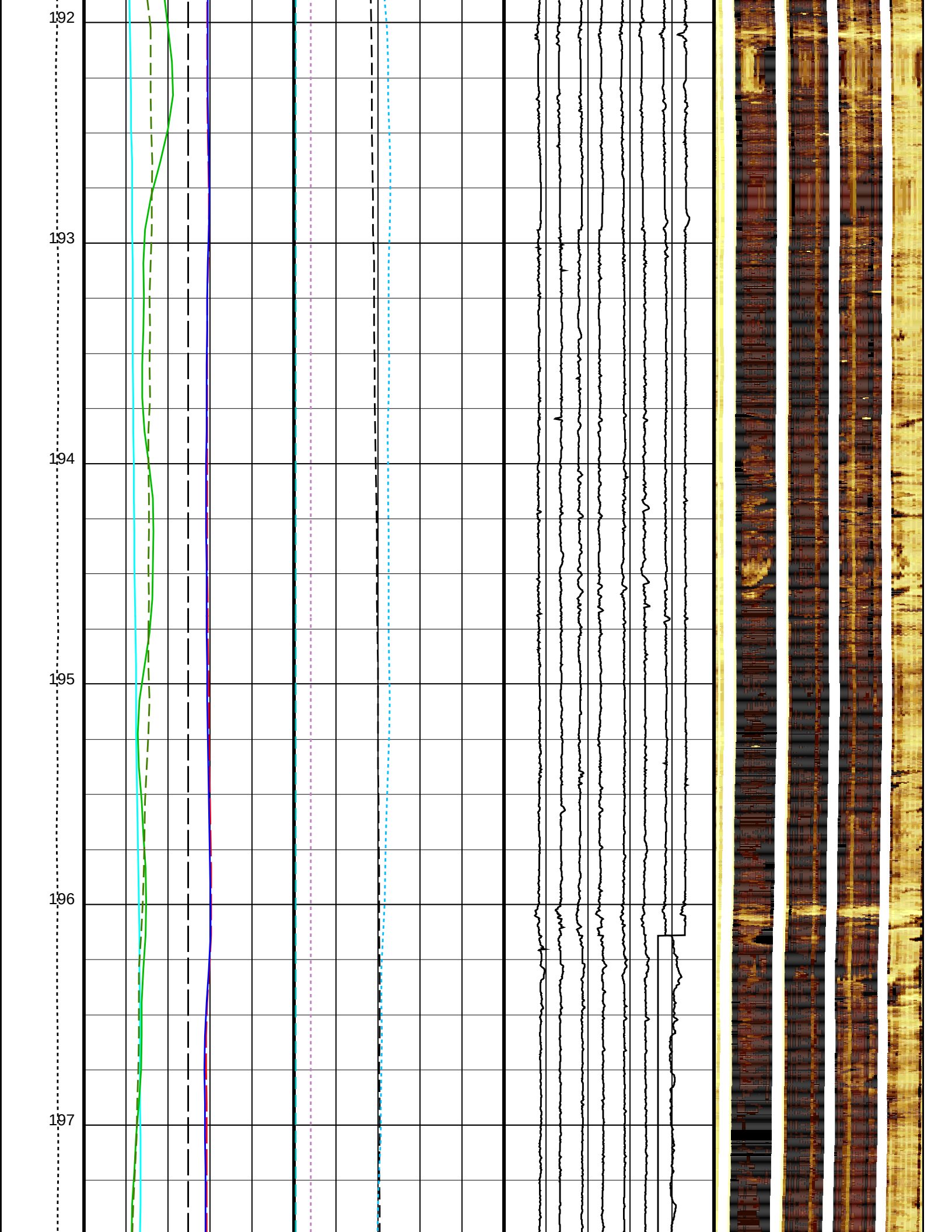
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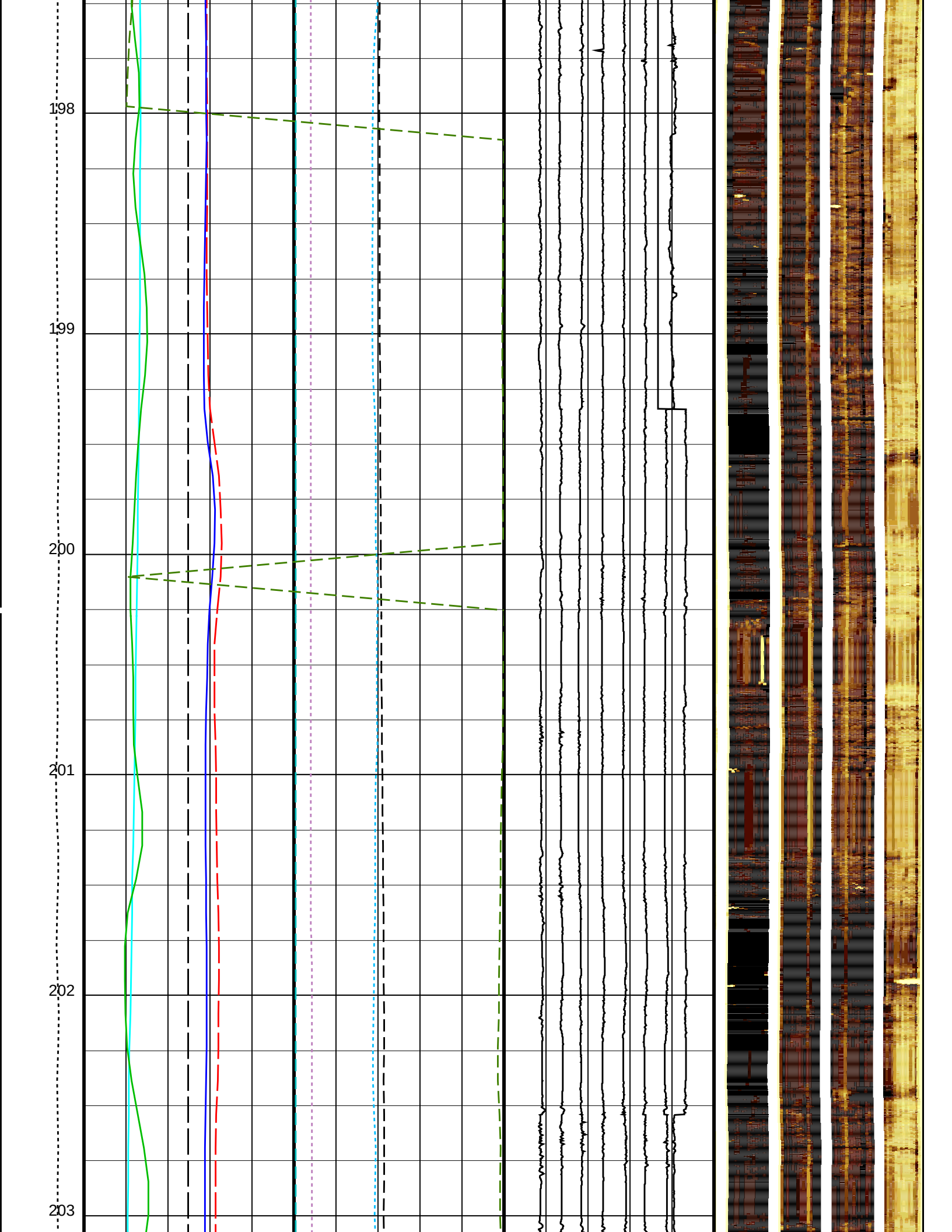
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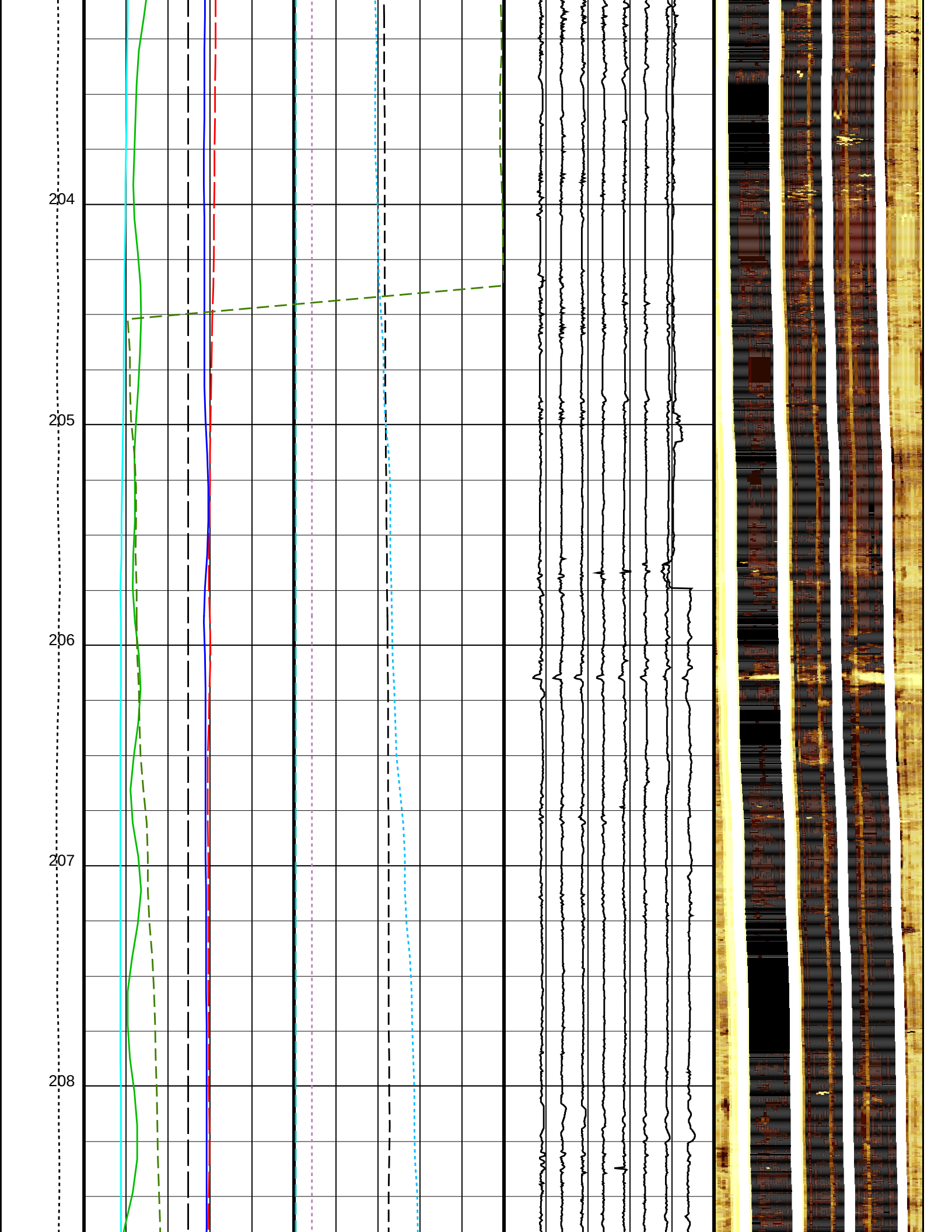
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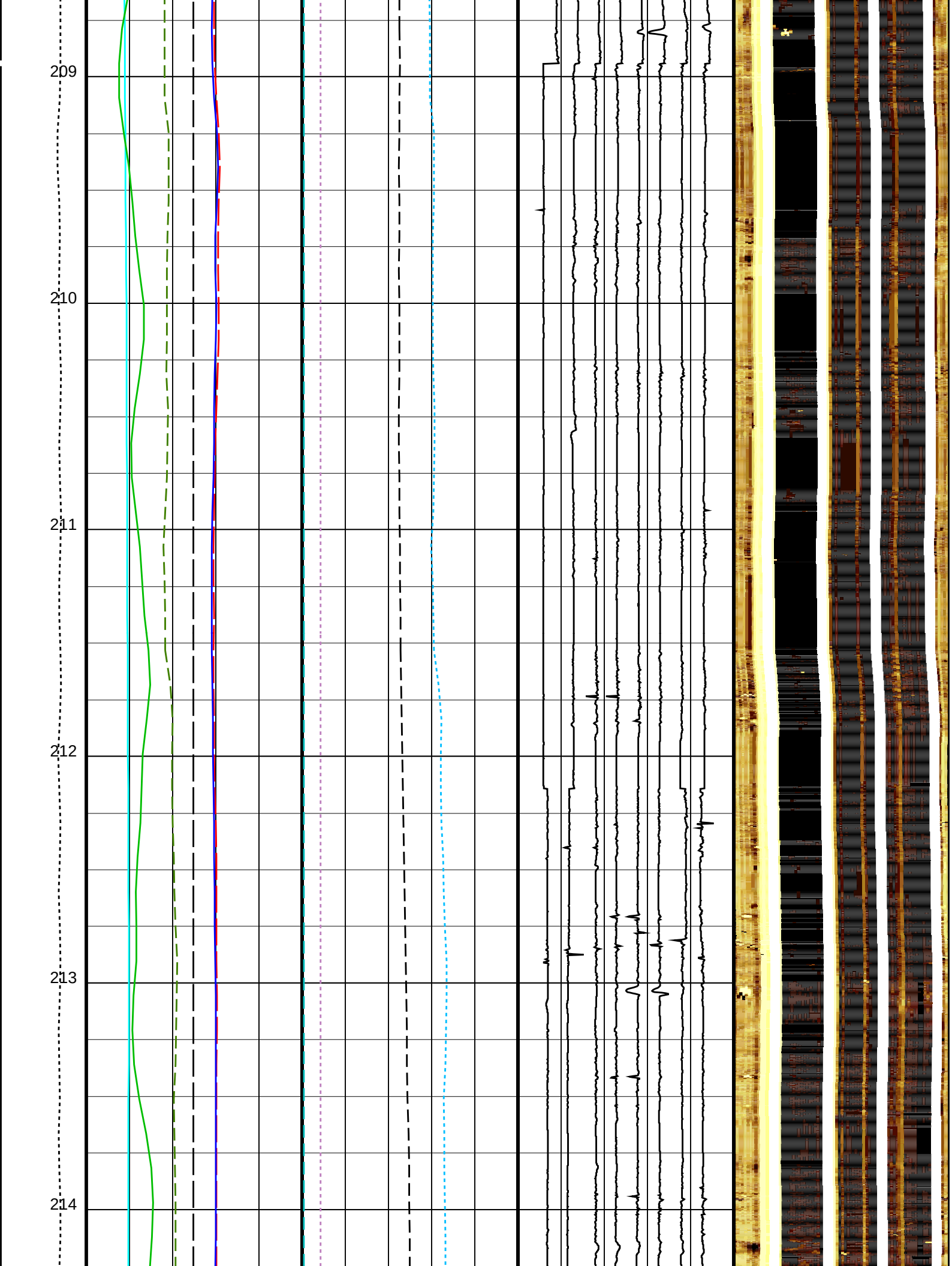
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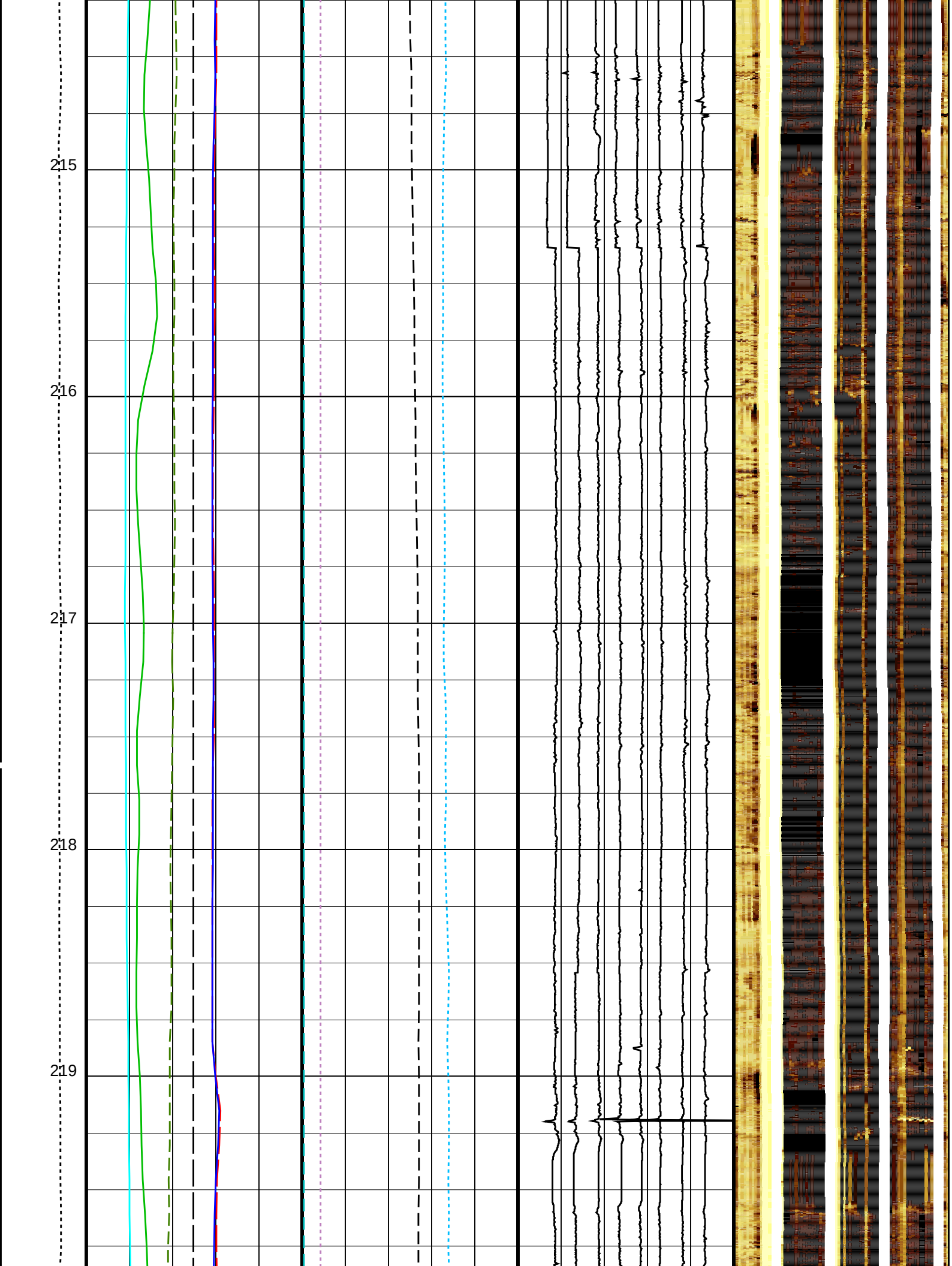
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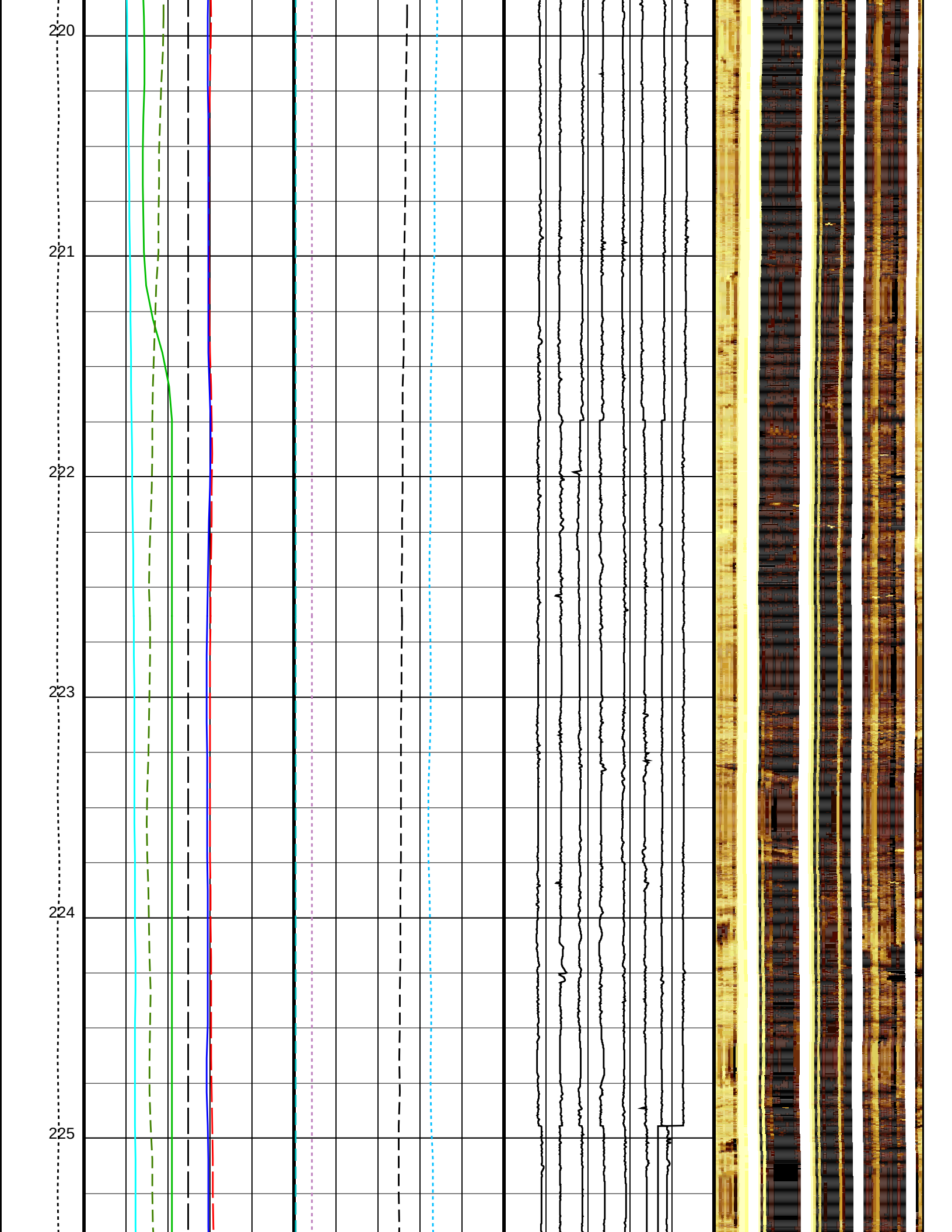
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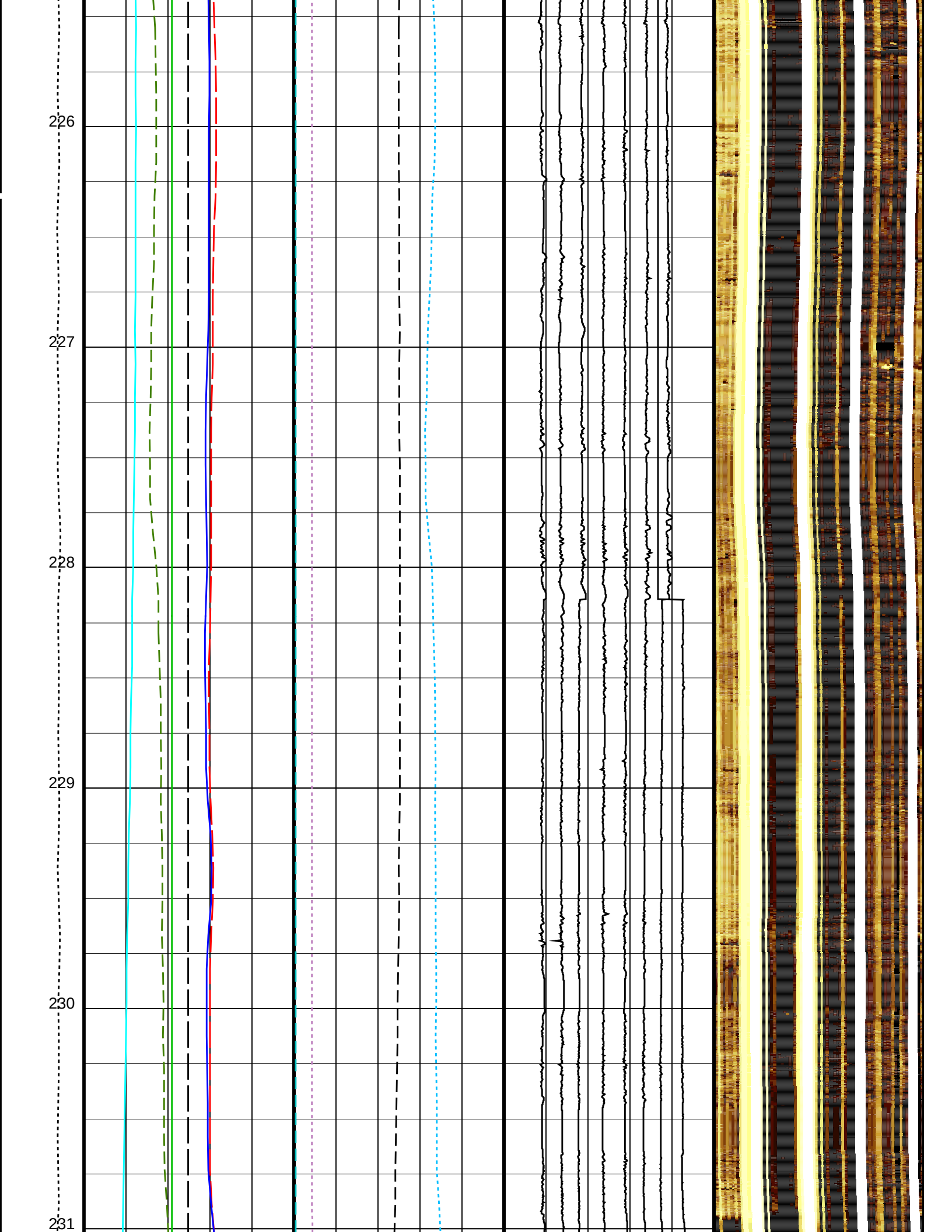
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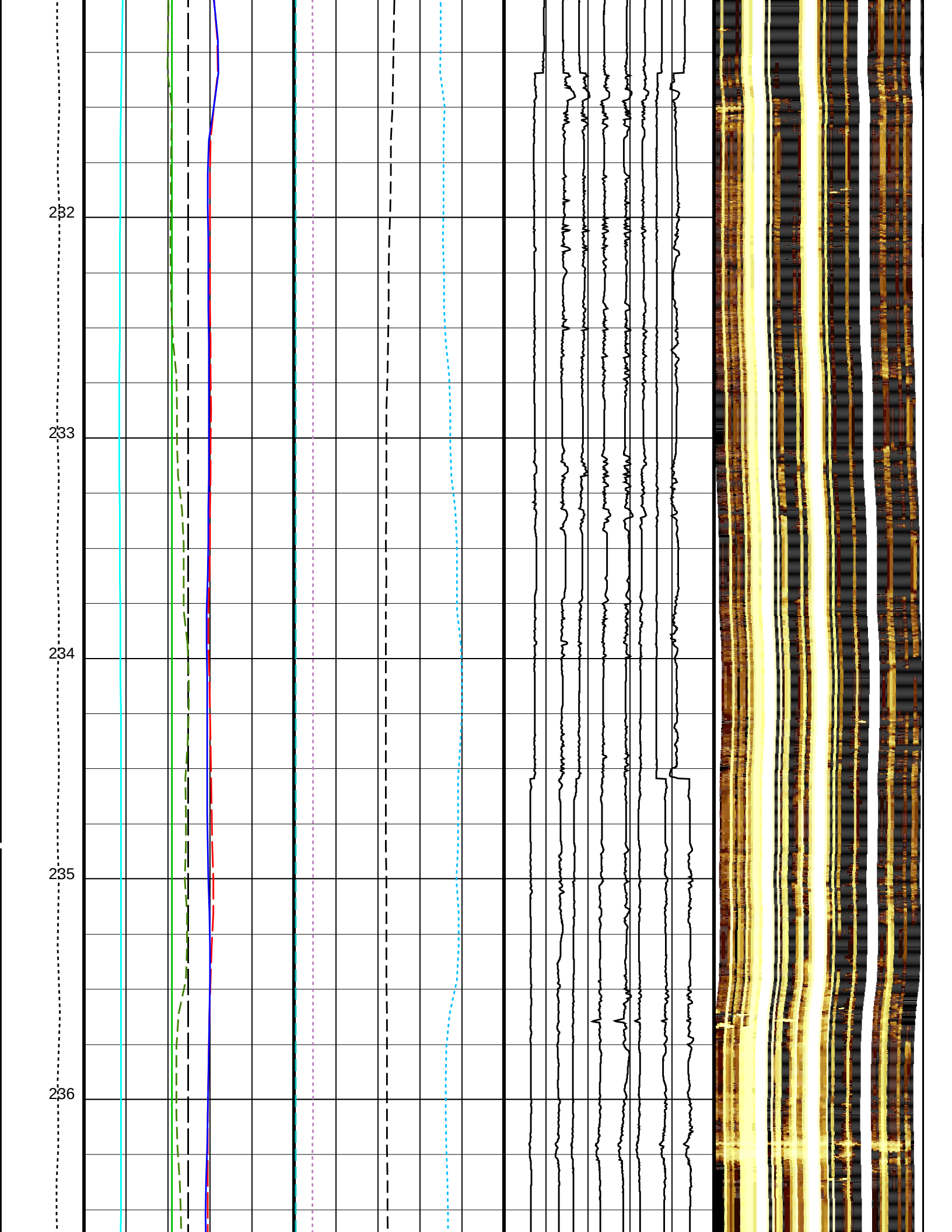
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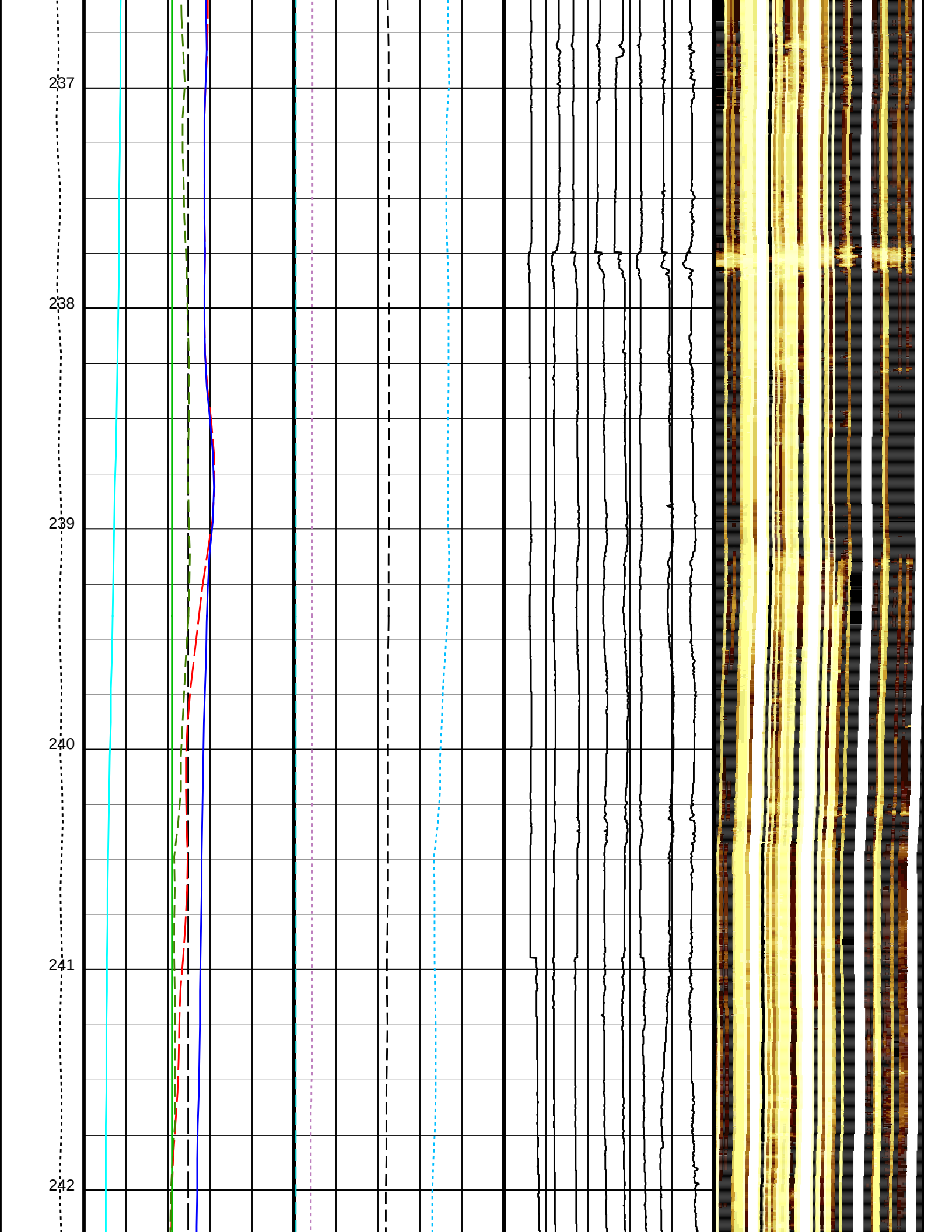
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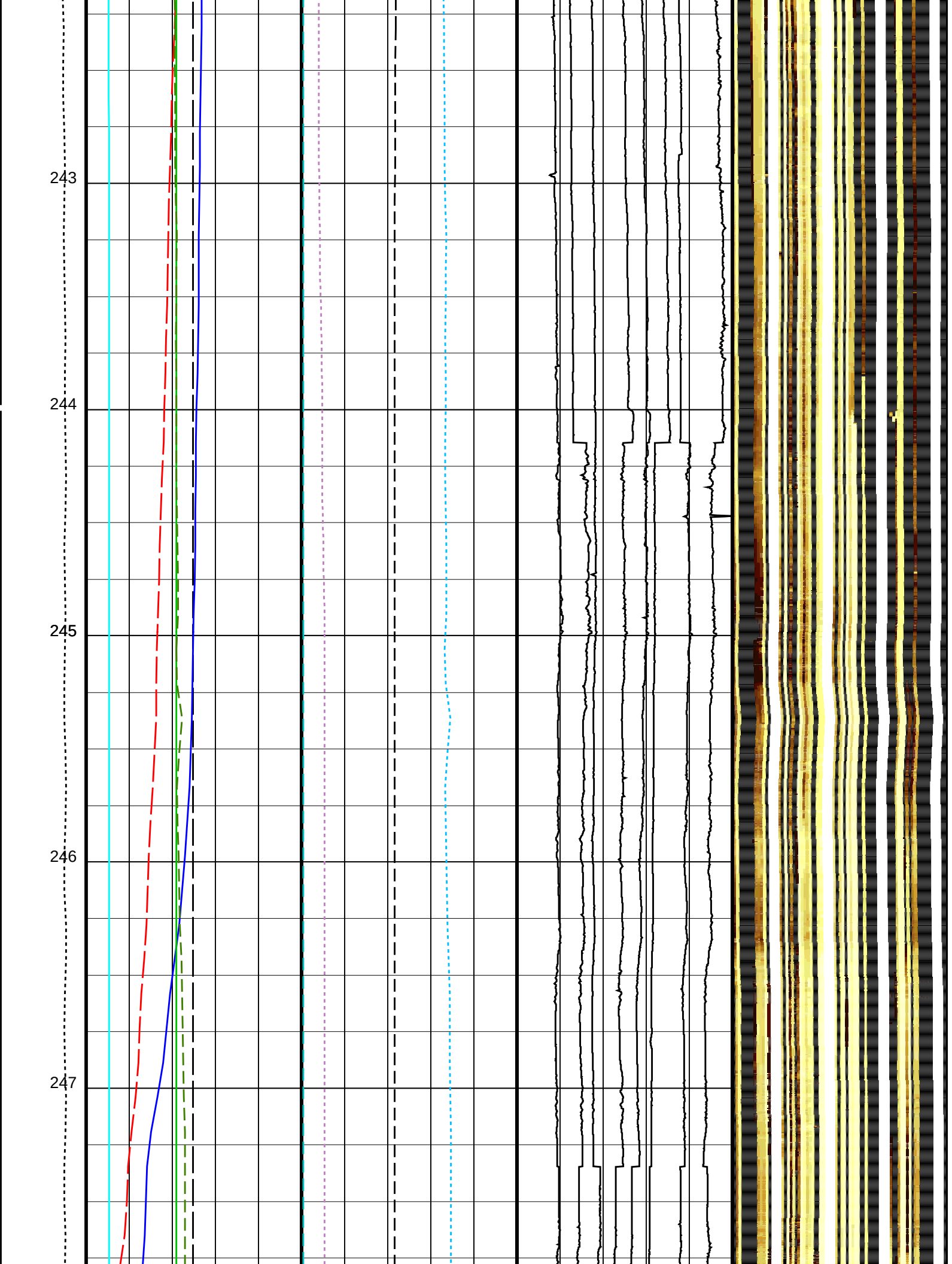
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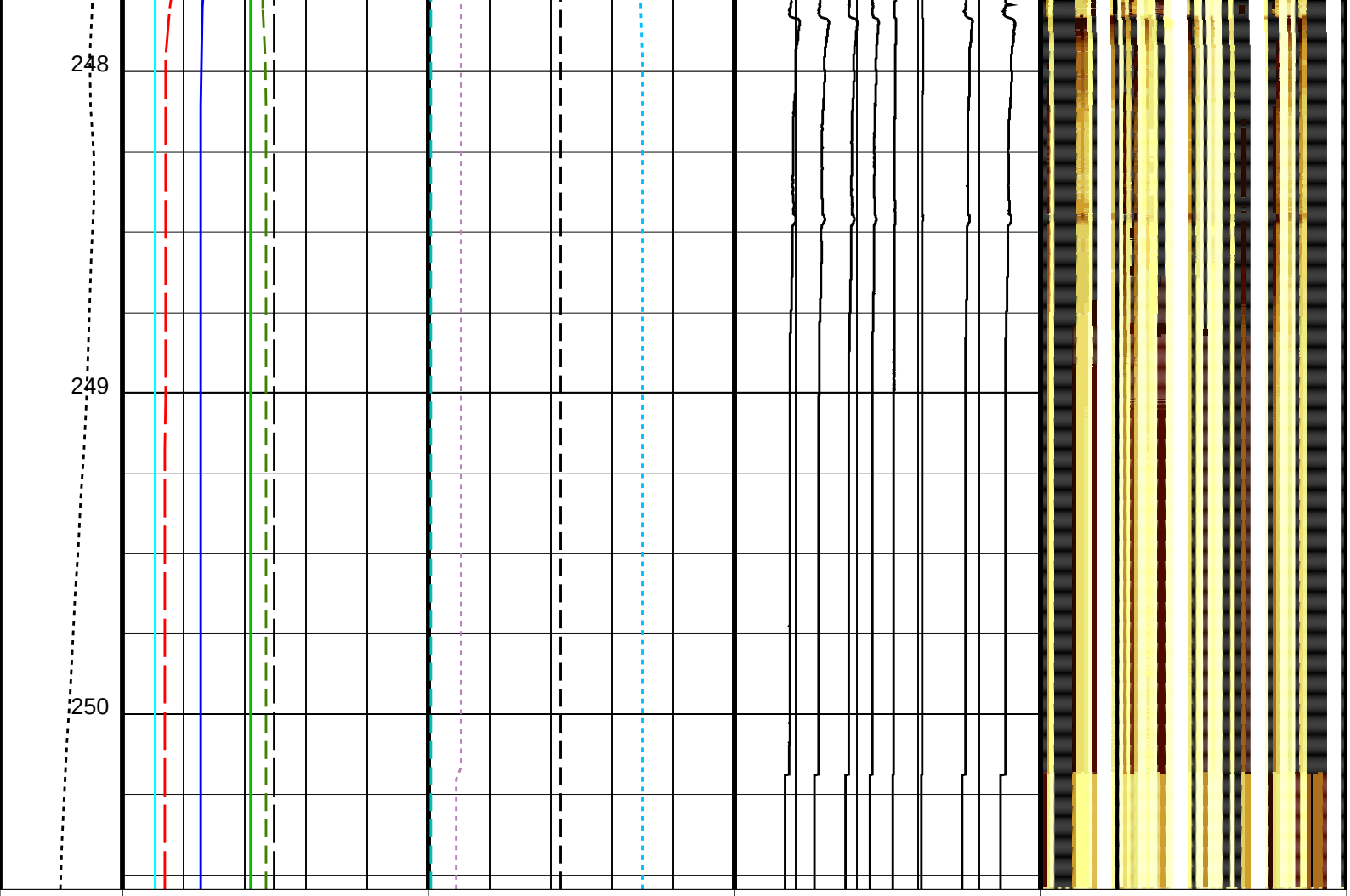


Tension (TENS) (LBF) 0 5000	Bit Size (BS) 0 (IN) 20	EMEX Voltage (EV) 0 (V) 50	Data Button 1 − Varies with RBS (U−MEST_RB1) −10 (−−−−) 90	3.2844 4.1540 4.5888 4.9149 5.2410 5.3498 5.5672 5.6758 5.7846 5.8933 6.0020 6.1107 6.2194 6.3281 6.5455 6.9803 MEST_PADA (U−MEST_RESISTIVITY_PADA_DS) (−−−−)
	Caliper 1 (C1) 0 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	Data Button 2 − Varies with RBS (U−MEST_RB2) −20 (−−−−) 80	3.2844 4.1540 4.5888 4.9149 5.2410 5.3498 5.5672 5.6758 5.7846 5.8933 6.0020 6.1107 6.2194 6.3281 6.5455 6.9803 MEST_PADB (U−MEST_RESISTIVITY_PADB_DS) (−−−−)
	Caliper 2 (C2) 0 (IN) 20		Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70	3.2844 4.1540 4.5888 4.9149 5.2410 5.3498 5.5672 5.6758 5.7846 5.8933 6.0020 6.1107 6.2194 6.3281 6.5455 6.9803 MEST_PADC (U−MEST_RESISTIVITY_PADC_DS) (−−−−)
	Deviation (DEVIM) 0 (DEG) 10		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60	3.2844 4.1540 4.5888 4.9149 5.2410 5.3498 5.5672 5.6758 5.7846 5.8933 6.0020 6.1107 6.2194 6.3281 6.5455 6.9803 MEST_PADD (U−MEST_RESISTIVITY_PADD_DS) (−−−−)
	Gamma Ray (GR_EDTC) 0 (GAPI) 100		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50	
	Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40	
	Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 7 − Varies with RBS (U−MEST_RB7)	

−40 (DEG) 360	−70 (−−−−) 30
Relative Bearing (RB_MEST)	Data Button 8 − Varies with RBS (U−MEST_RB8)
−40 (DEG) 360	−80 (−−−−) 20

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MEST−B: Micro Electrical Scanner − B (Slim)		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	16.0121	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−1795.3	M
PP	Playback Processing	NORMAL	

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:20 Graphics File Created: 24−Aug−2013 13:41

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	EDTC−B	SKK−5169−EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_028LUP	FN:31	PRODUCER	23−Aug−2013 16:57	2045.8 M	1884.4 M

Output DLIS Files

DEFAULT	FMS_DSI_056PUP	FN:71	PRODUCER	24−Aug−2013 13:41		
CLIENT	FMS_DSI_056PUC	FN:72	CUSTOMER	24−Aug−2013 13:41		

Schlumberger

Main Pass

MAXIS Field Log

Company: Lamont Doherty Earth Observatory Well: Expedition 346, Site U1423C

Input DLIS Files

DEFAULT	FMS_DSI_029LUP	FN:33	PRODUCER	23−Aug−2013 17:24	2044.6 M	1754.7 M

Output DLIS Files

DEFAULT	FMS_DSI_055PUP	FN:69	PRODUCER	24−Aug−2013 13:33	249.3 M	−11.1 M
CLIENT	FMS_DSI_055PUC	FN:70	CUSTOMER	24−Aug−2013 13:33	249.3 M	−11.1 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187

DSST−B 19C0−187 EDTC−B SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

Relative Bearing (RB_MEST)
−40 (DEG) 360

Pad One Azimuth (P1AZ_MEST)
−40 (DEG) 360

Hole Azimuth (HAZIM)
−40 (DEG) 360

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Deviation (DEVIM)
0 (DEG) 10

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

EMEX Intensity (EI)
0 (AMPS) 10

Tension (TENS)
(LBF)
0 5000

Bit Size (BS)
0 (IN) 20

EMEX Voltage (EV)
0 (V) 50

Data Button 8 − Varies with RBS (U−MEST_RB8)
−80 (−−−−) 20

Data Button 7 − Varies with RBS (U−MEST_RB7)
−70 (−−−−) 30

Data Button 6 − Varies with RBS (U−MEST_RB6)
−60 (−−−−) 40

Data Button 5 − Varies with RBS (U−MEST_RB5)
−50 (−−−−) 50

Data Button 4 − Varies with RBS (U−MEST_RB4)
−40 (−−−−) 60

Data Button 3 − Varies with RBS (U−MEST_RB3)
−30 (−−−−) 70

Data Button 2 − Varies with RBS (U−MEST_RB2)
−20 (−−−−) 80

Data Button 1 − Varies with RBS (U−MEST_RB1)
−10 (−−−−) 90

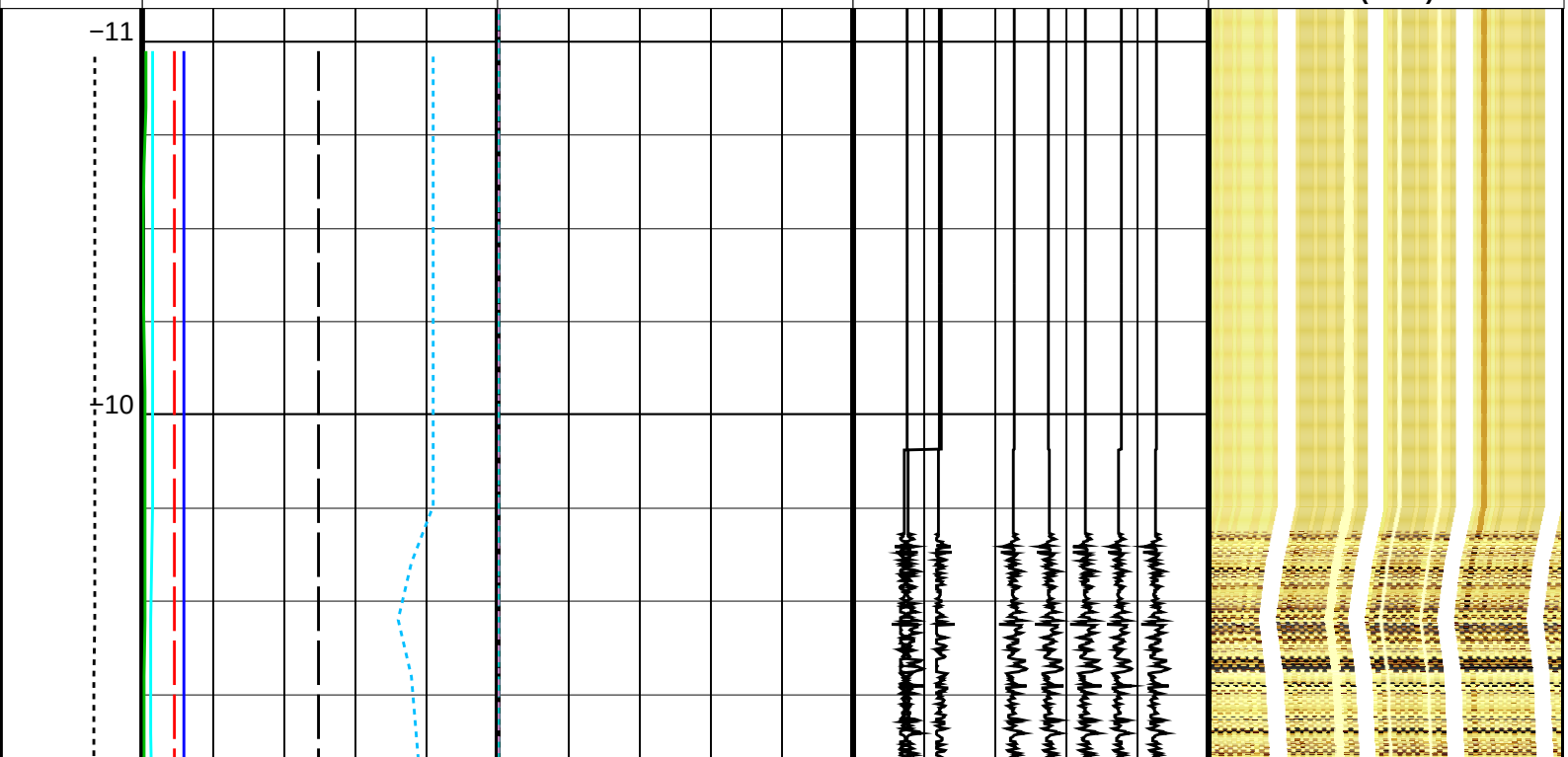
3.2844 4.1540 4.5888 4.9149 5.2410 5.3498 5.5672 5.6758 5.7846 5.8933 6.0020 6.1107 6.2194 6.3281 6.5455 6.9803

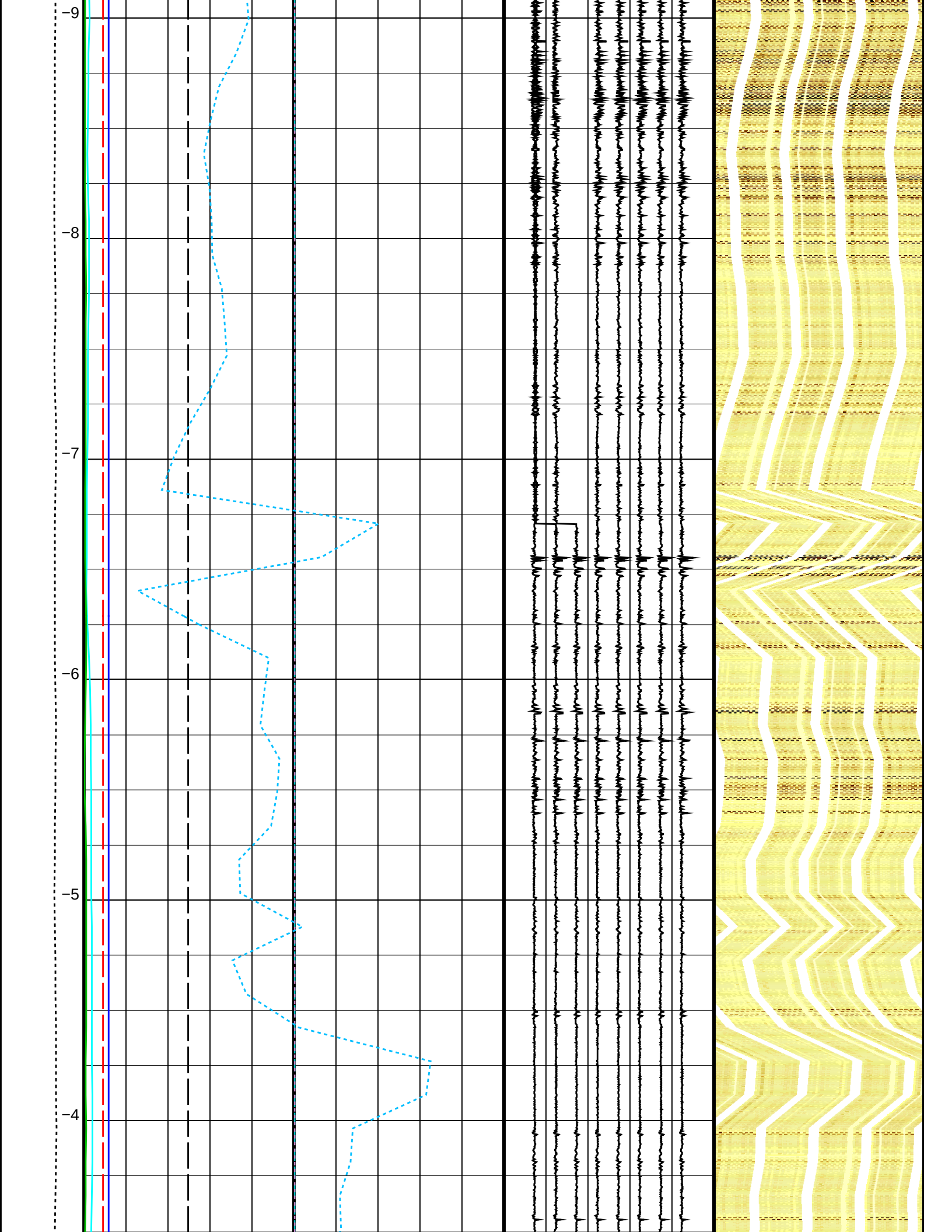
MEST_PADD (U−MEST_RESISTIVITY_PADD_DS) (−−−−)

MEST_PADC (U−MEST_RESISTIVITY_PADC_DS) (−−−−)

MEST_PADB (U−MEST_RESISTIVITY_PADB_DS) (−−−−)

MEST_PADA (U−MEST_RESISTIVITY_PADA_DS) (−−−−)

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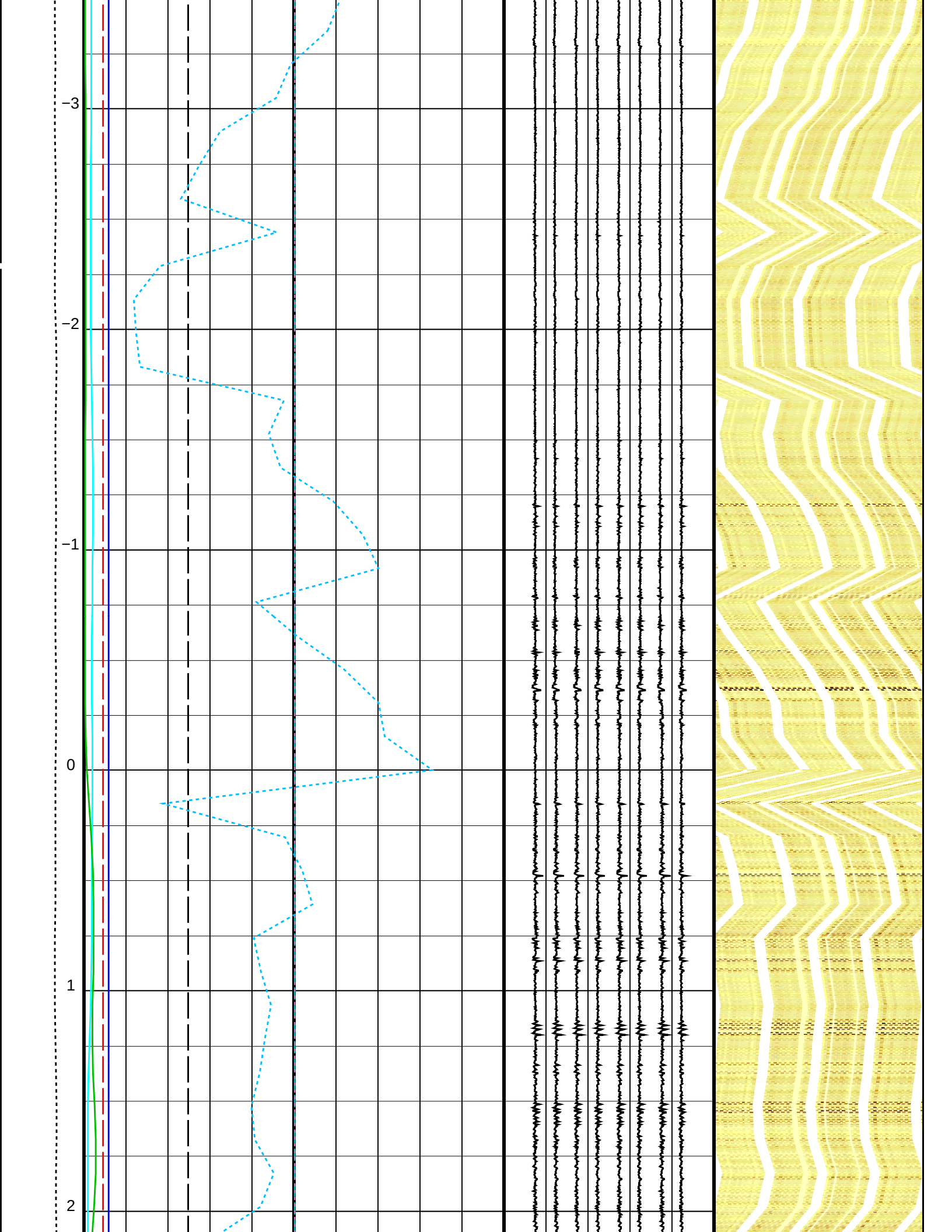
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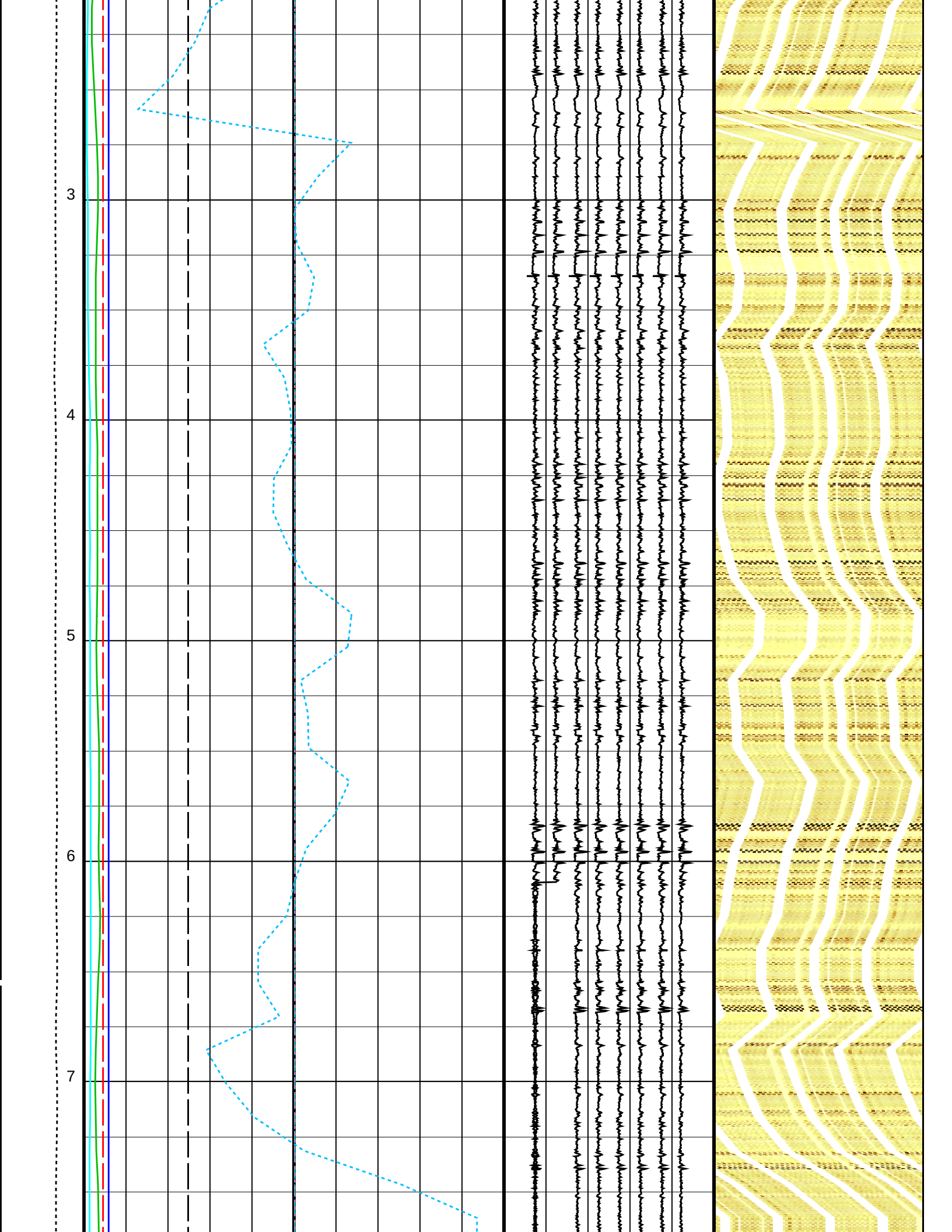
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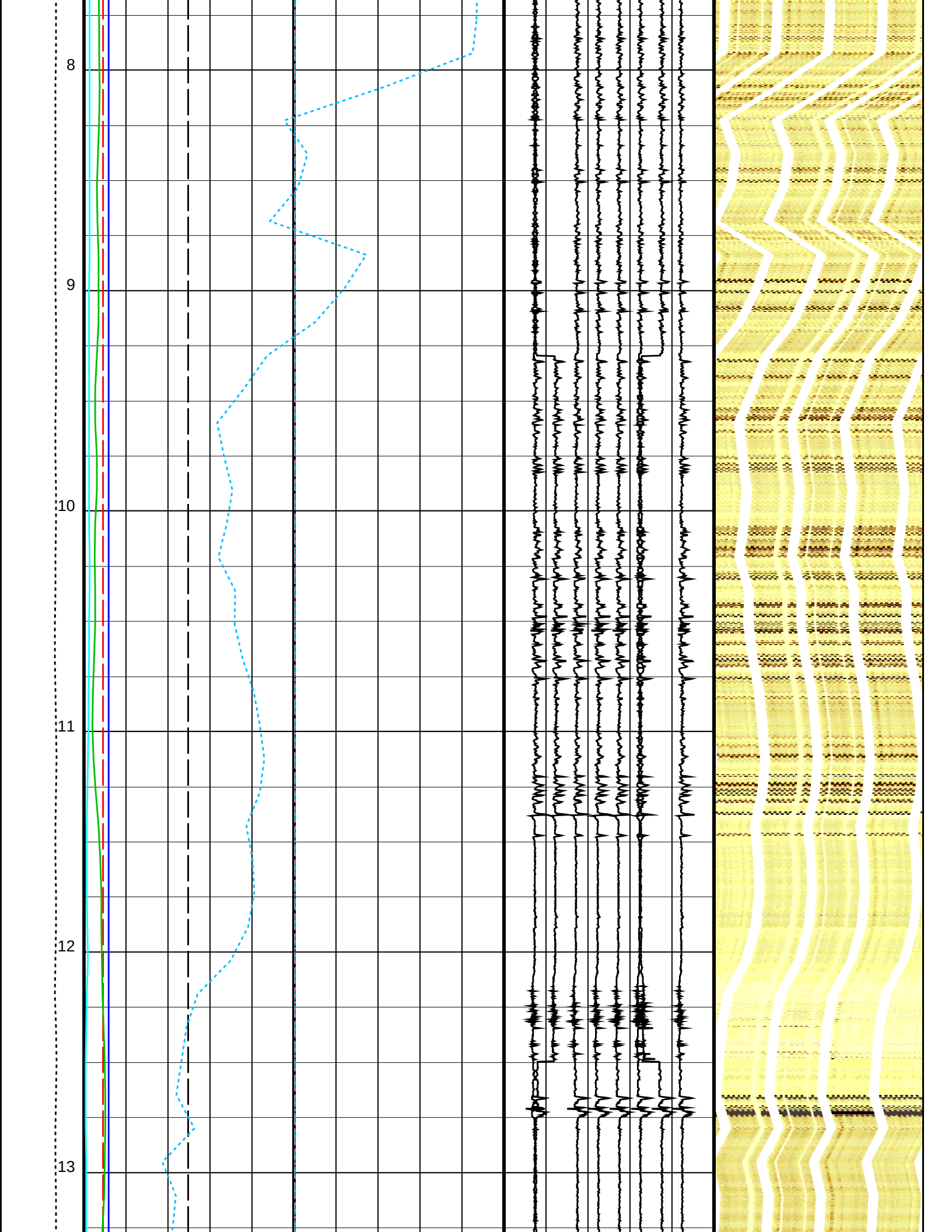
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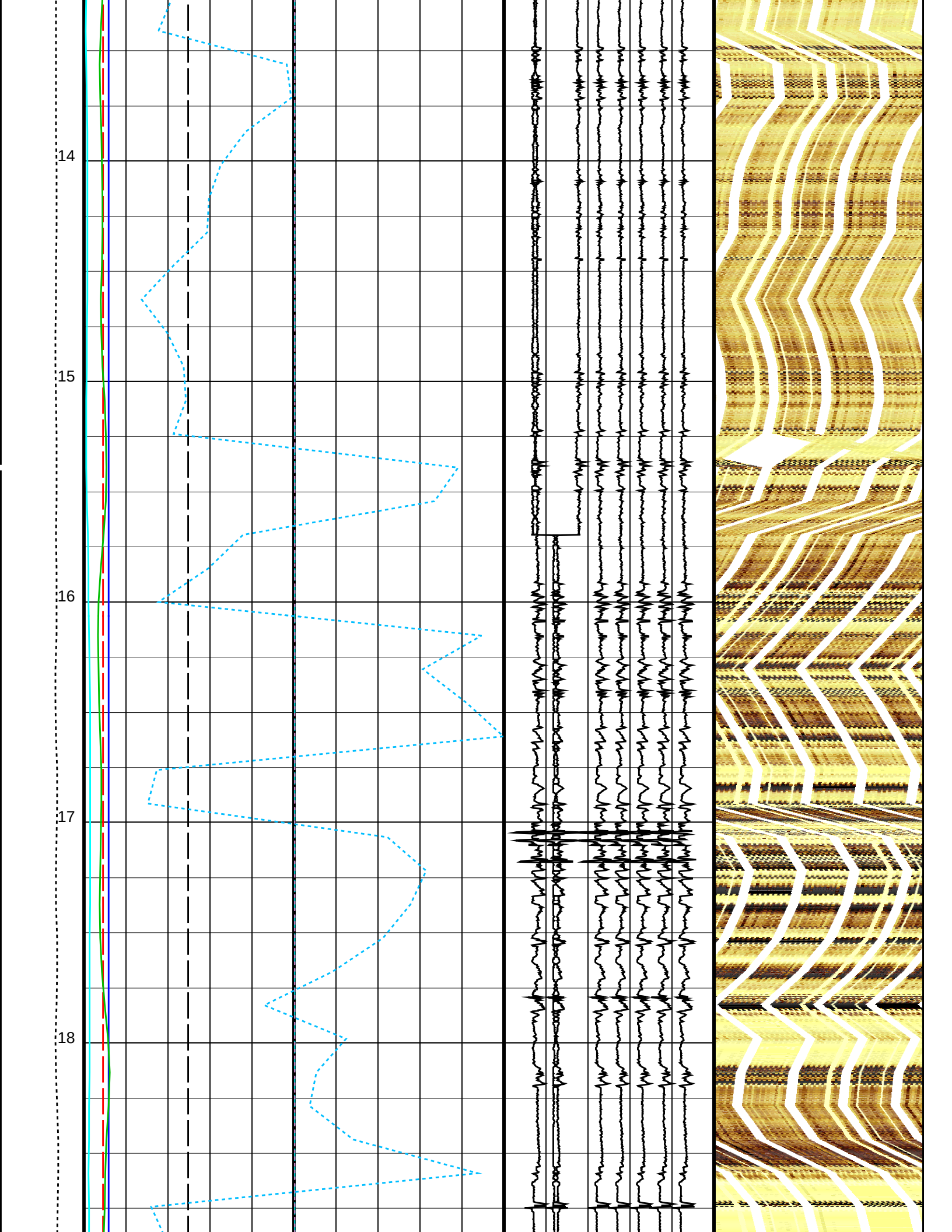
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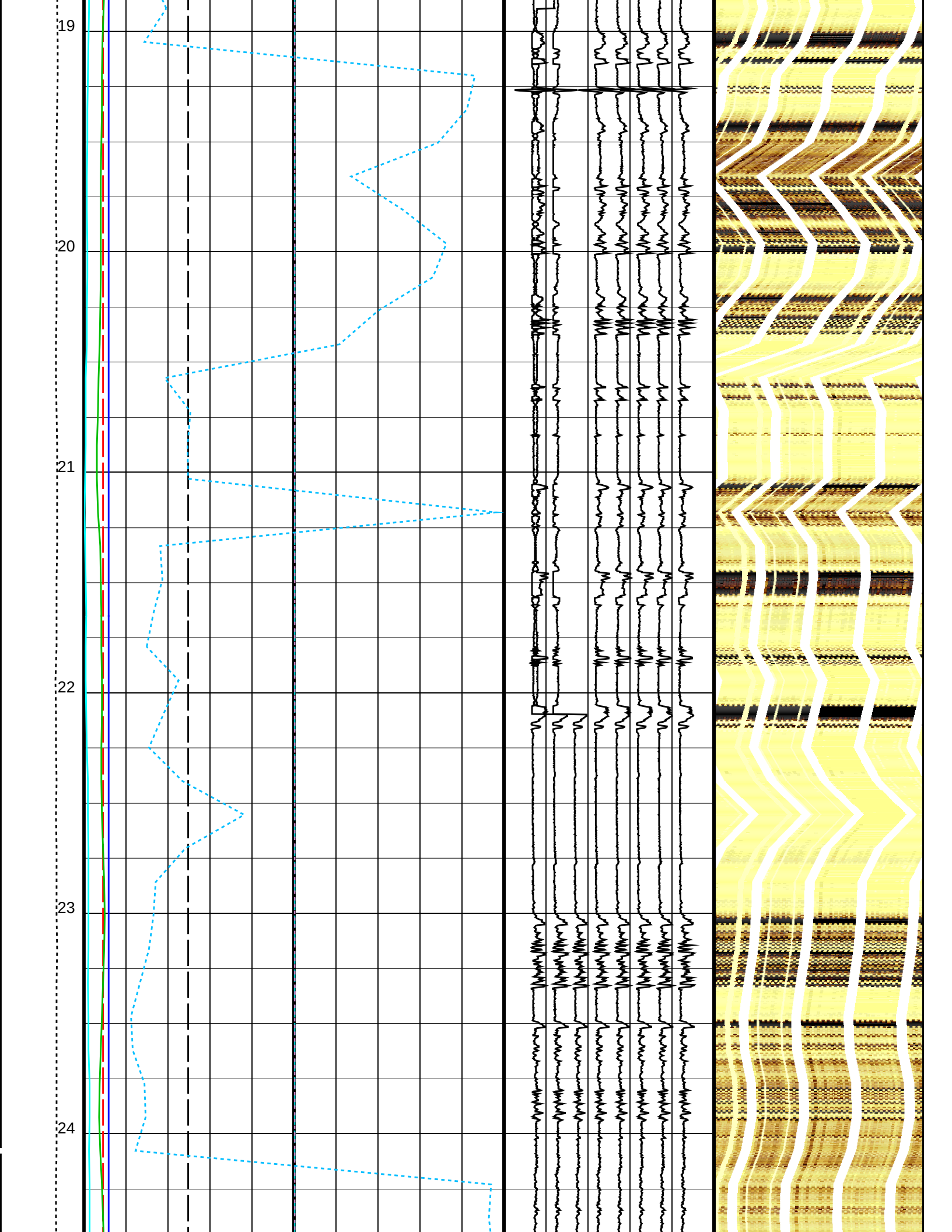
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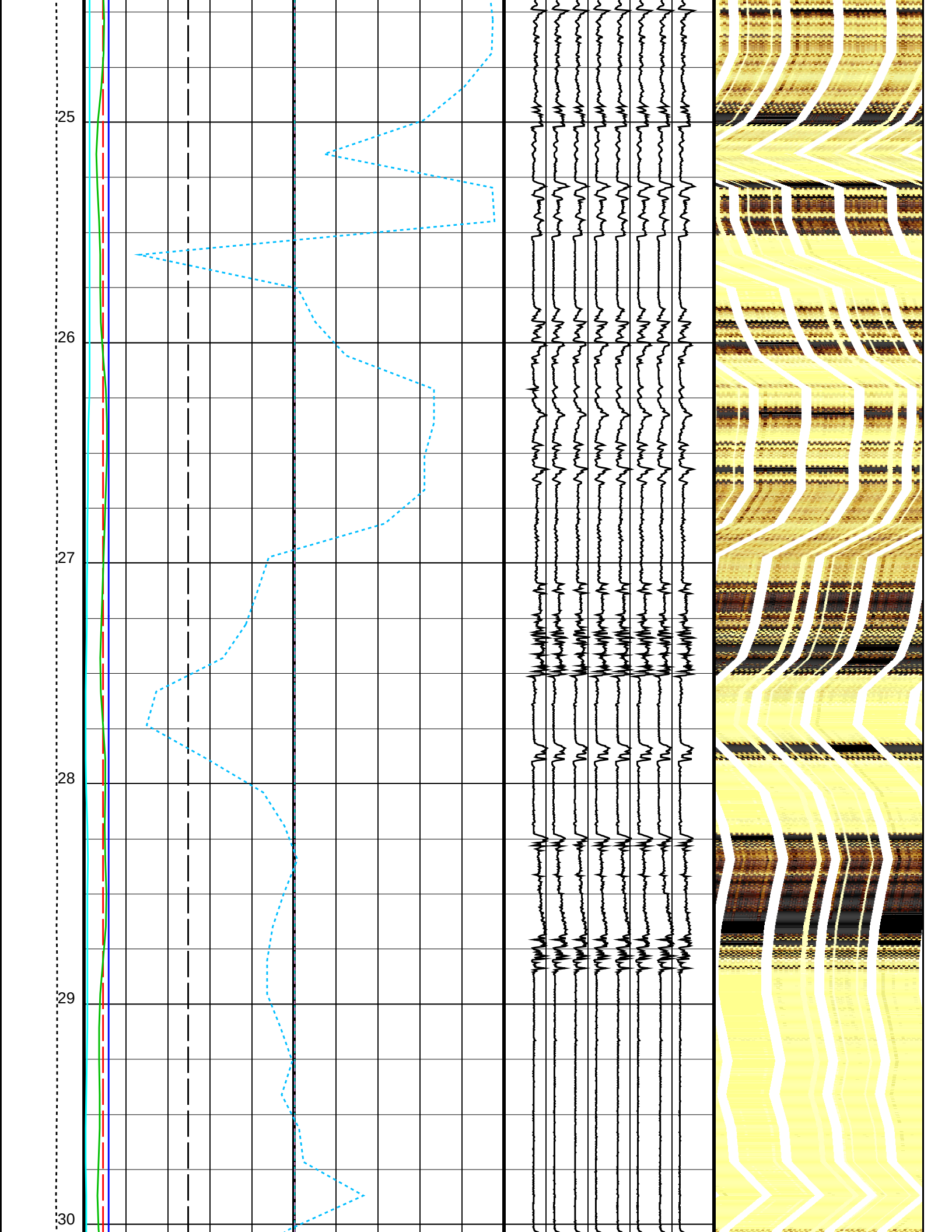
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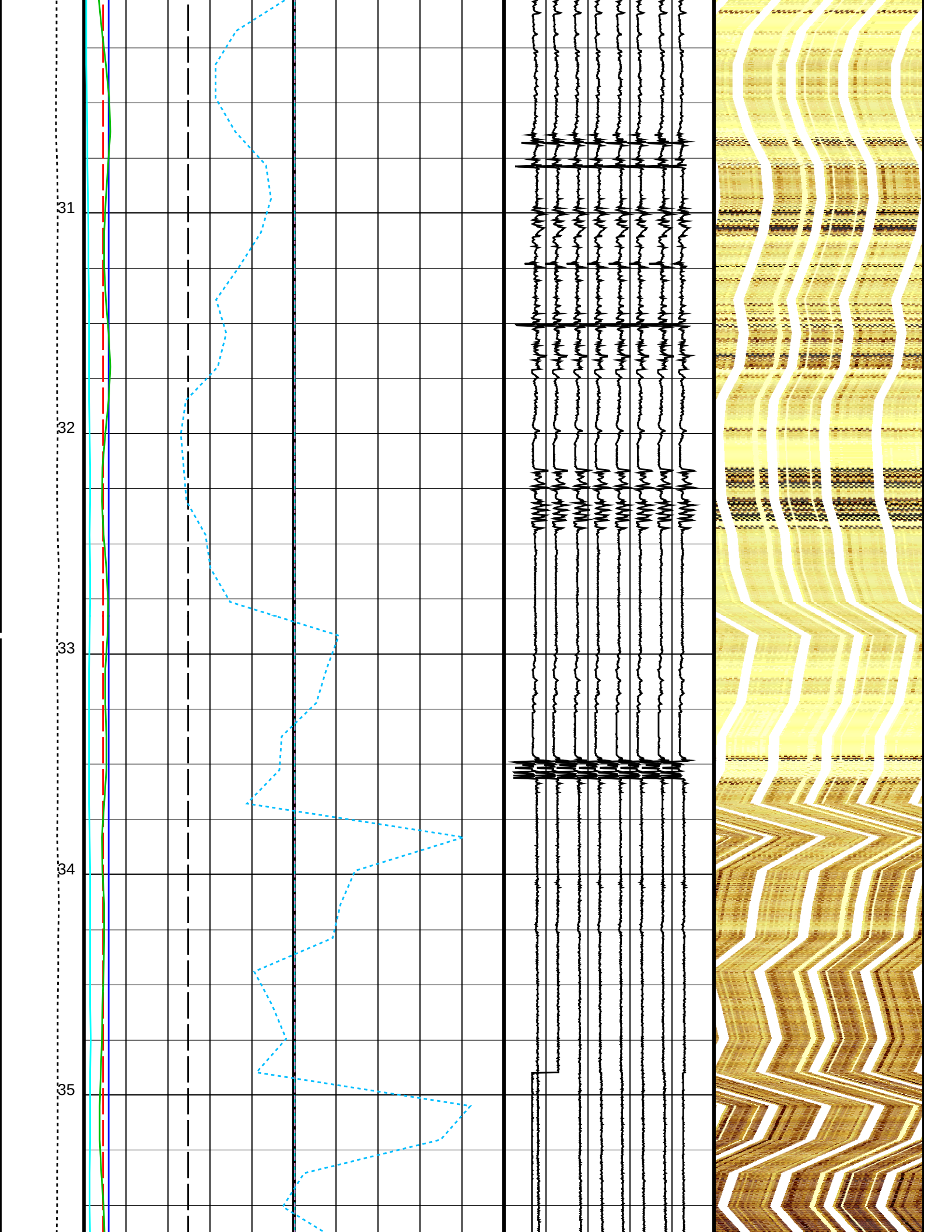
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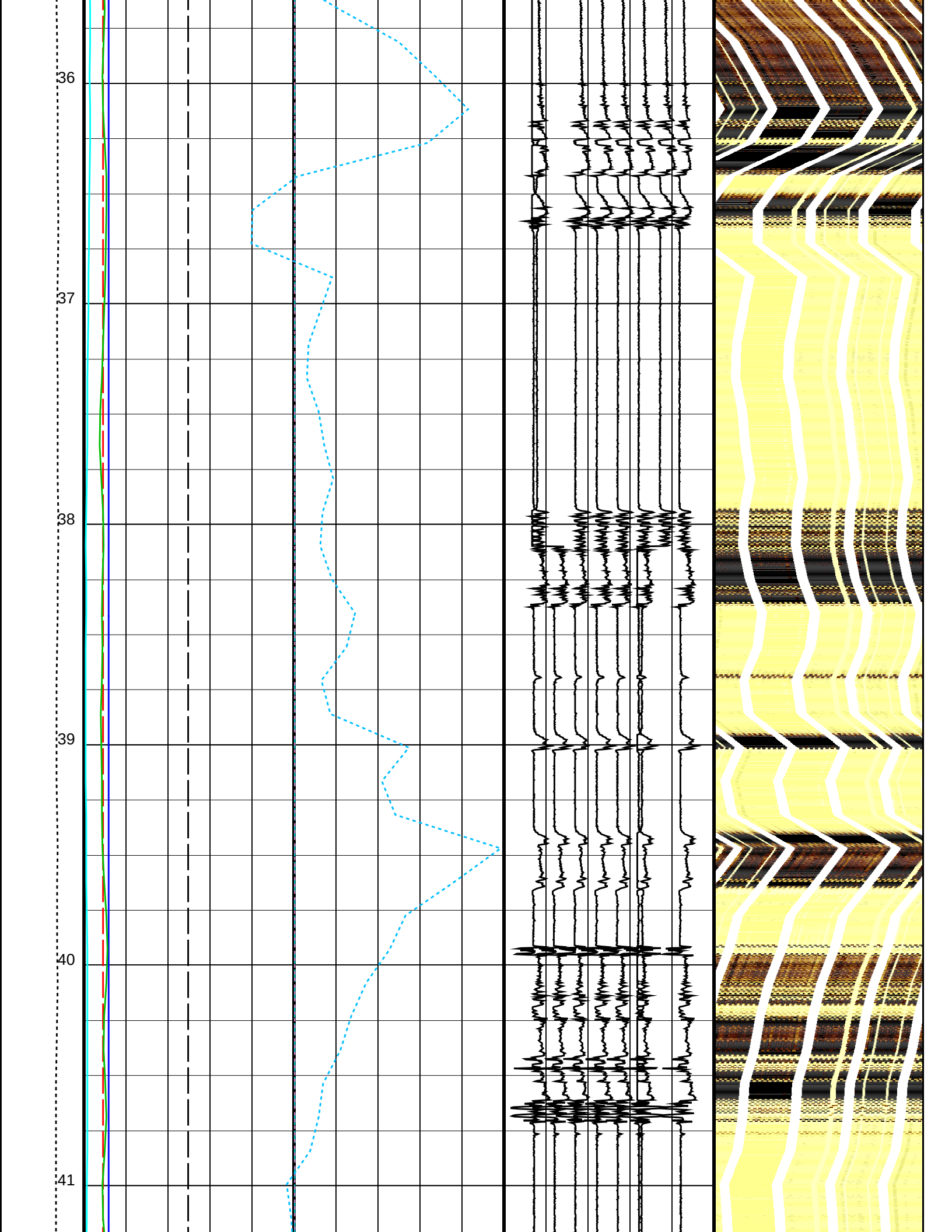
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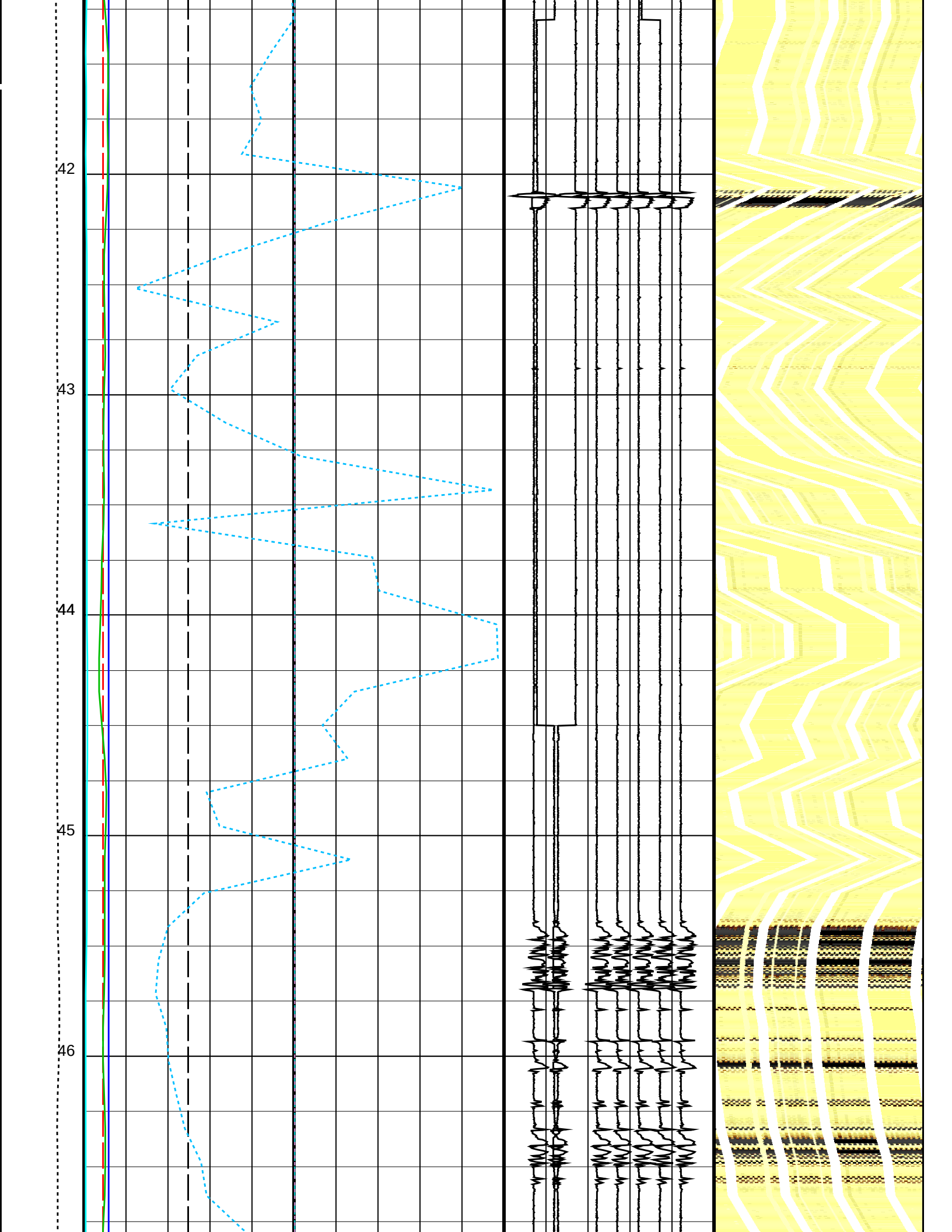
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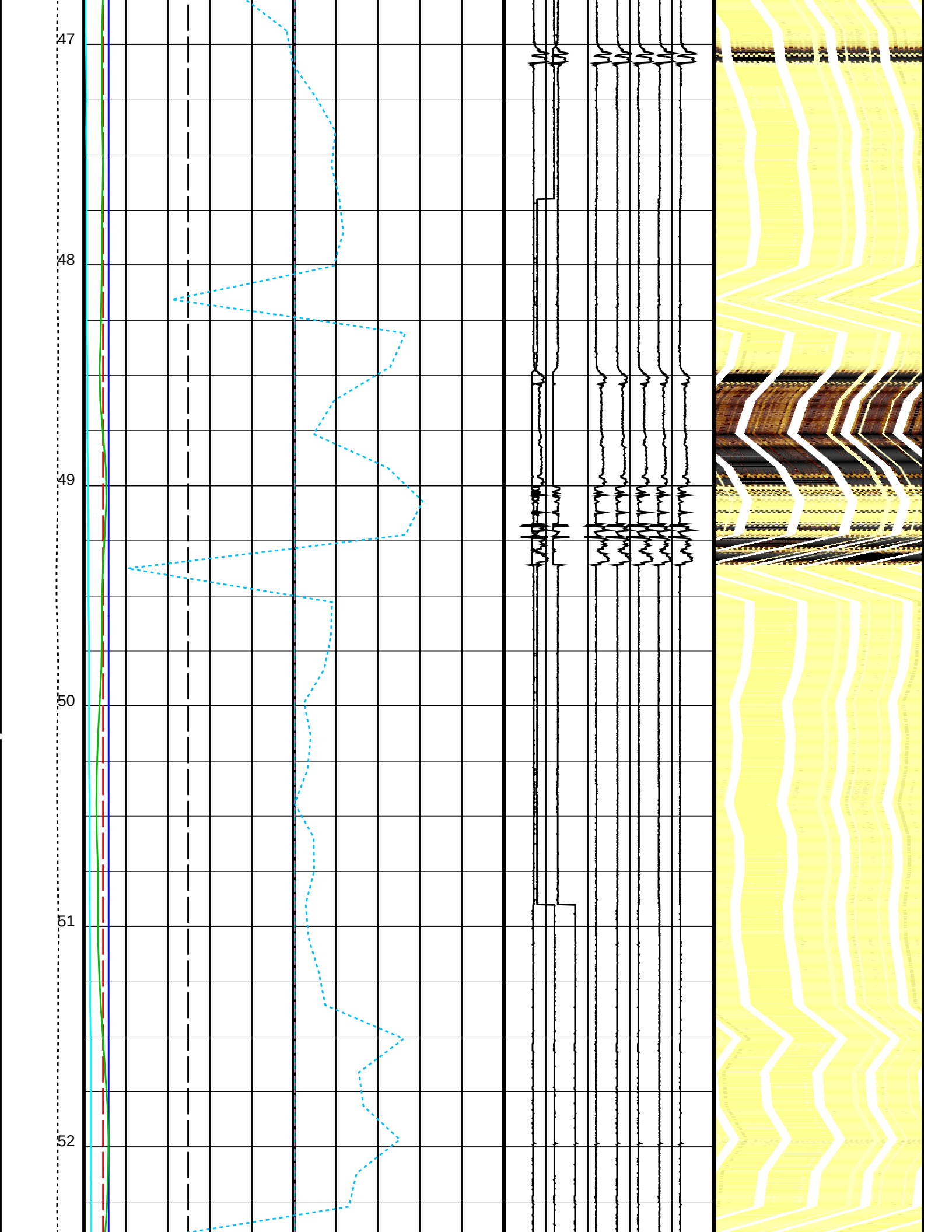
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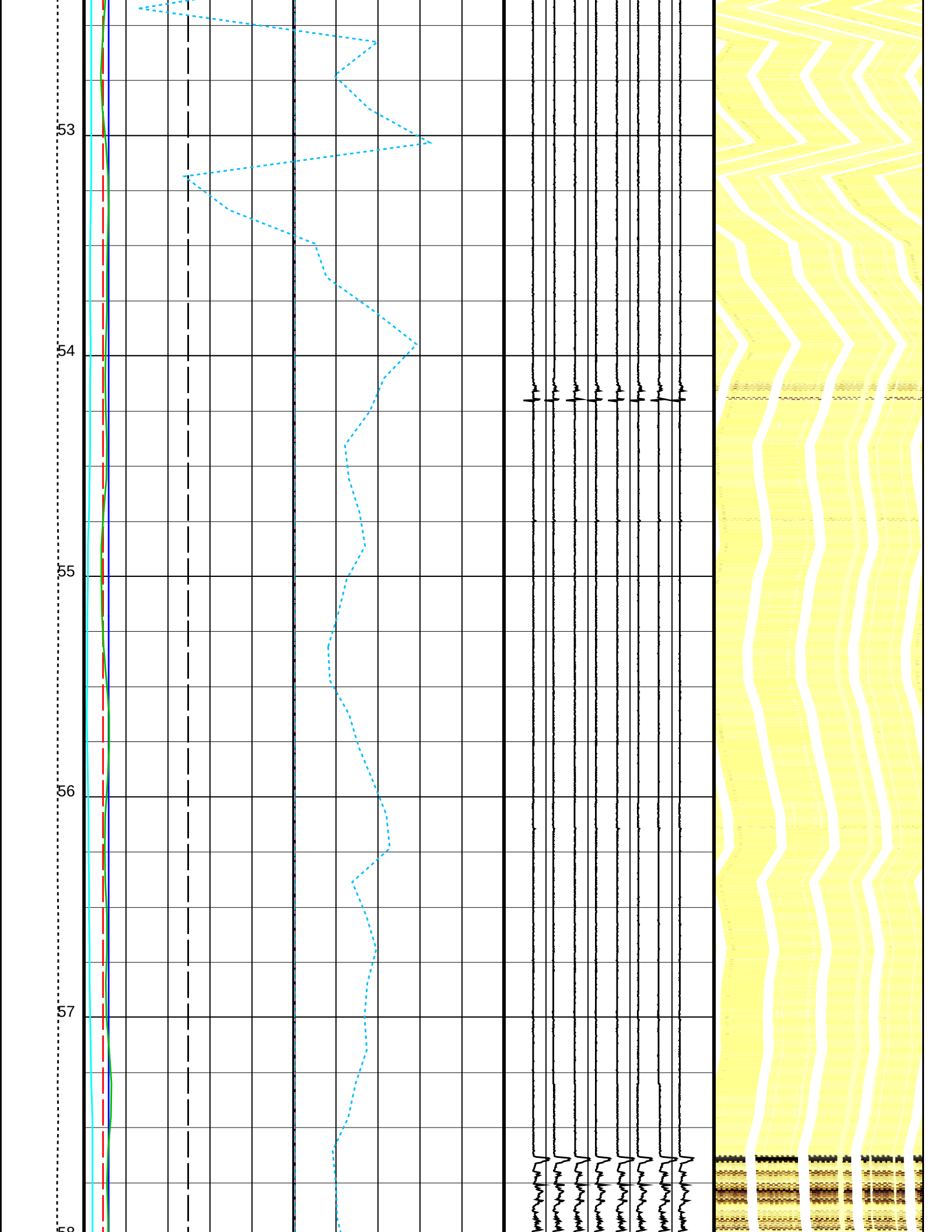
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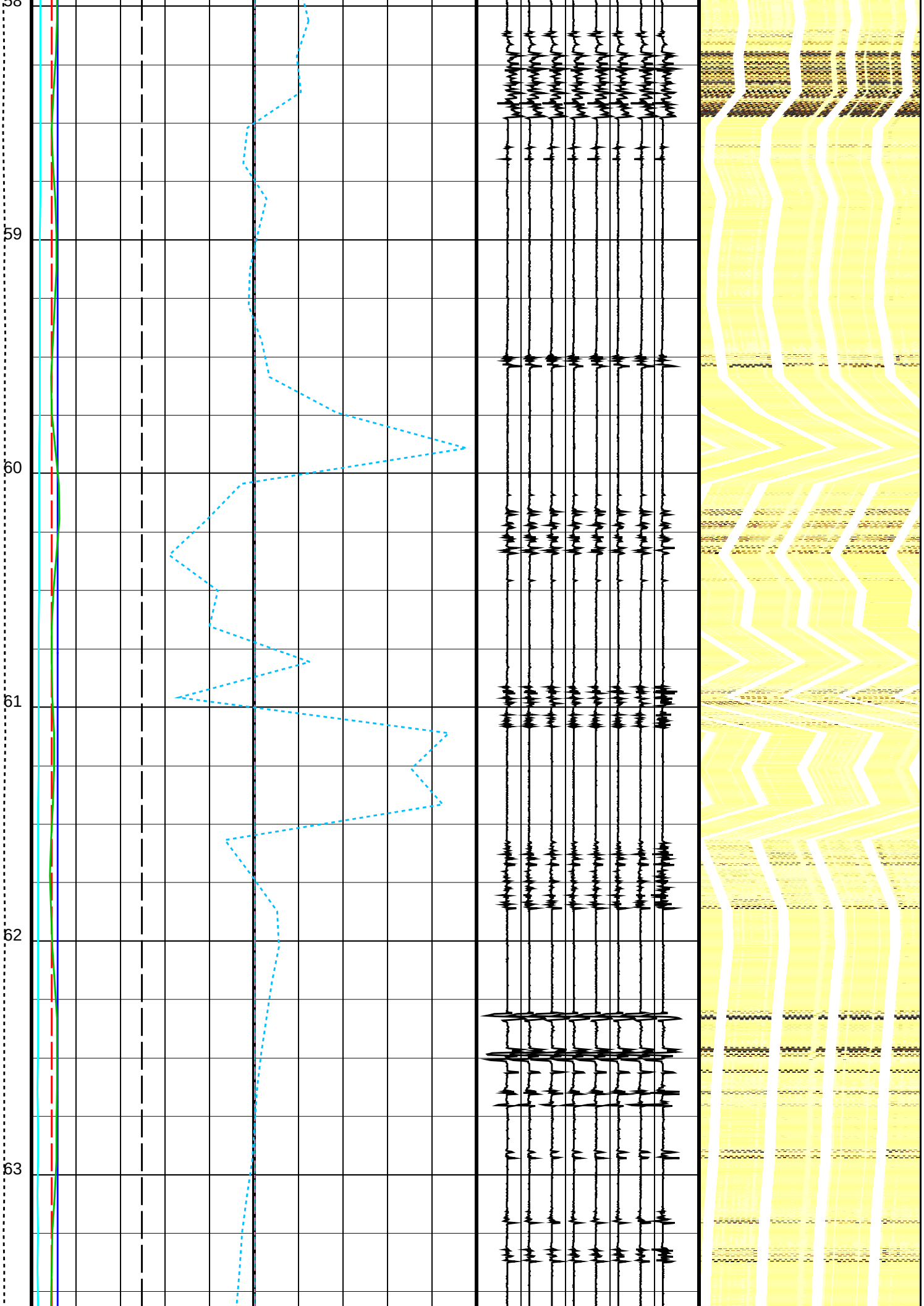
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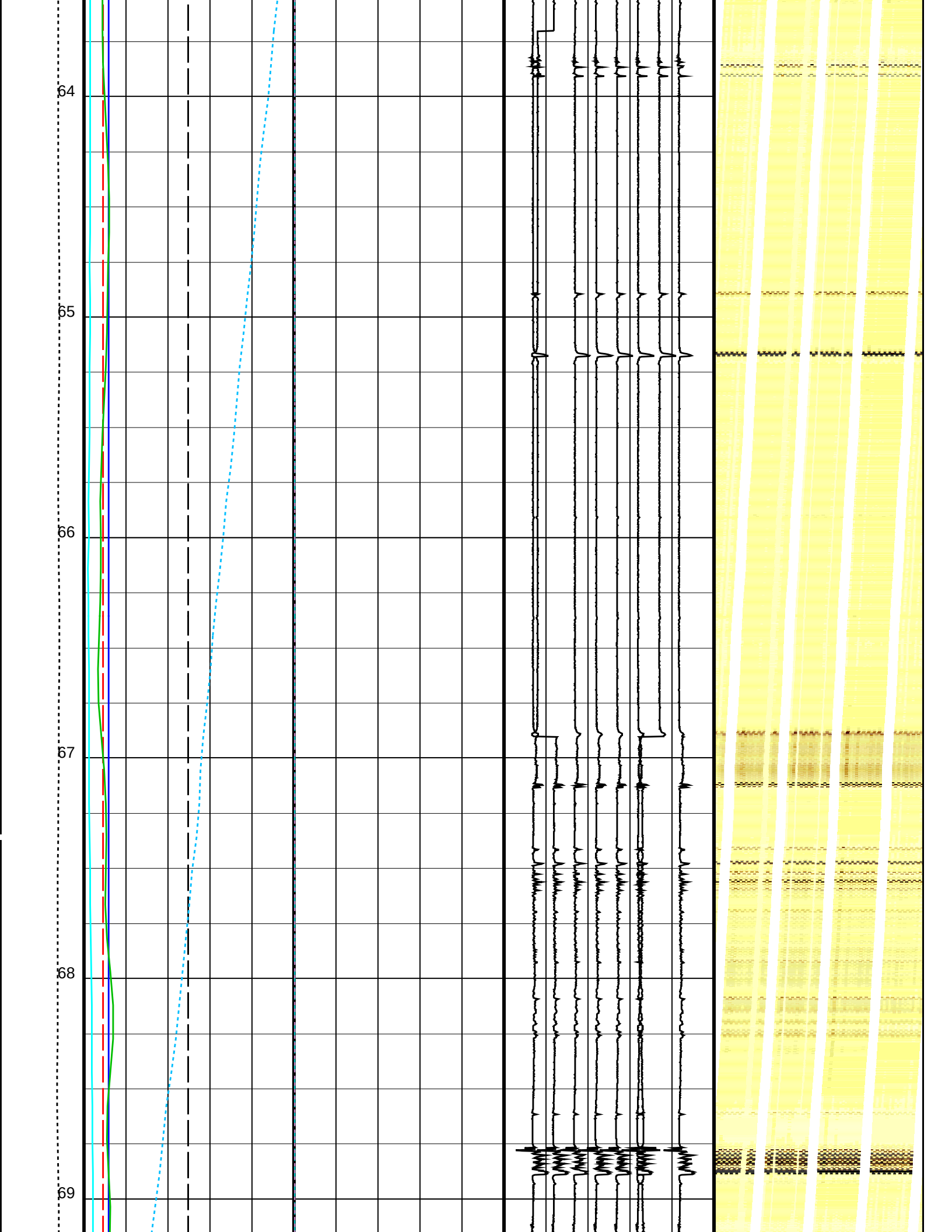
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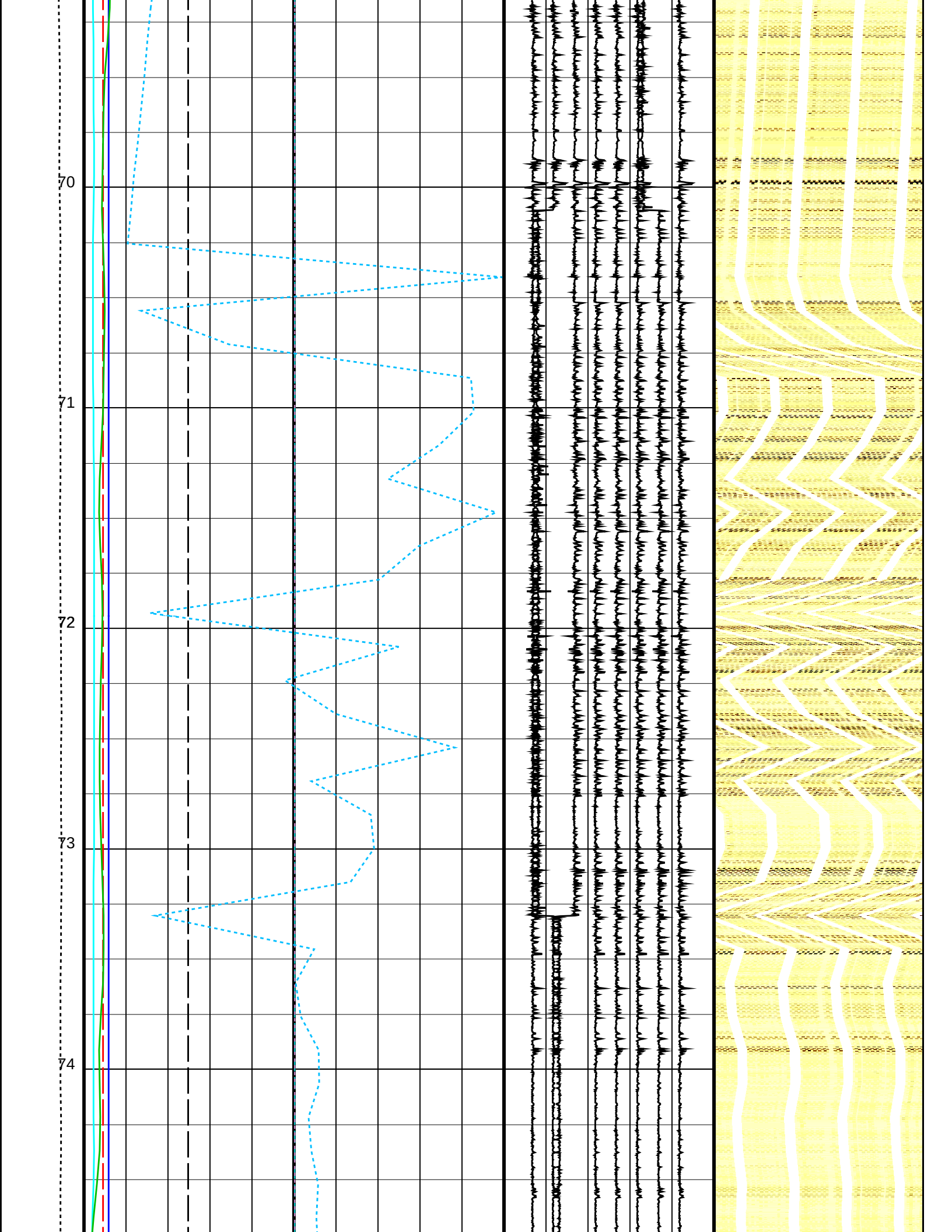
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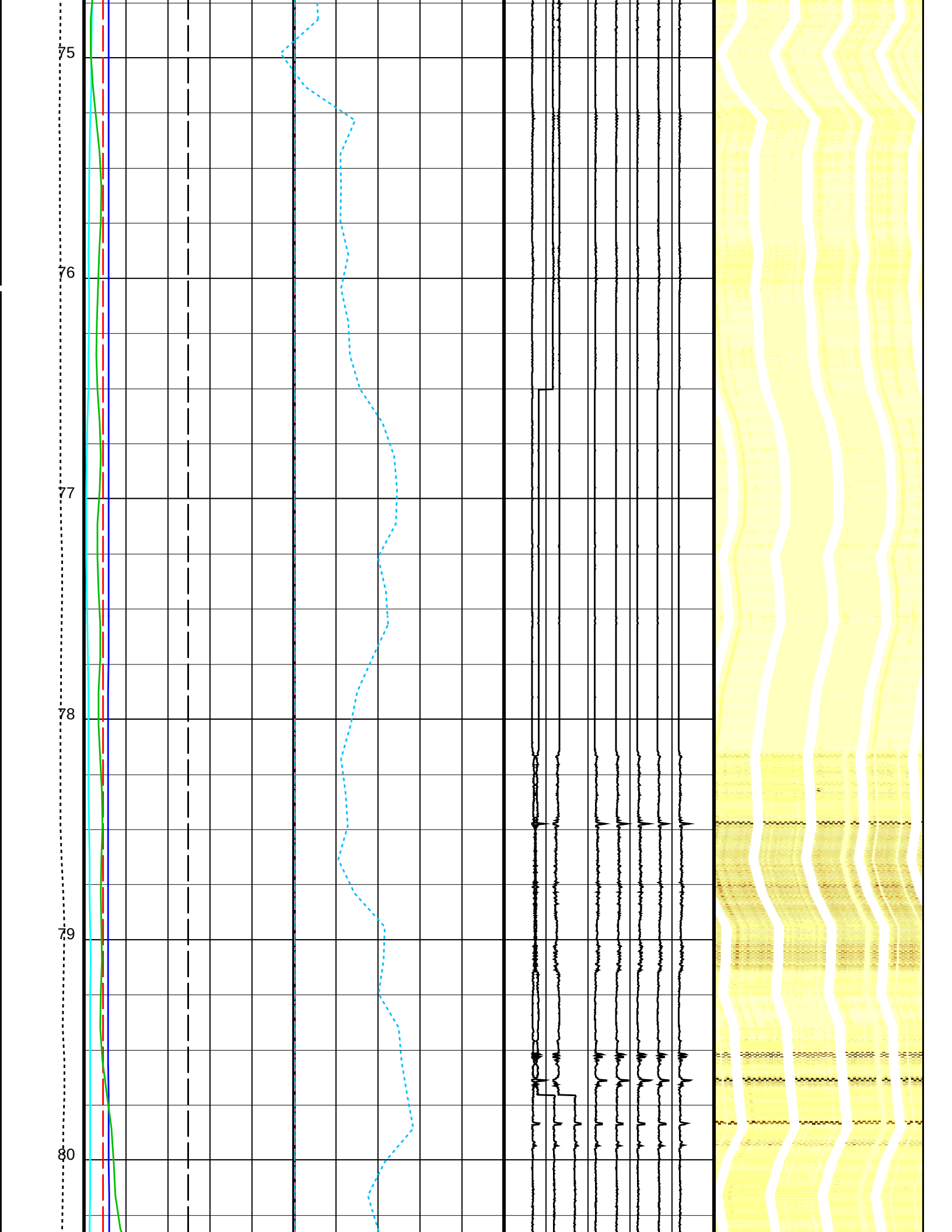
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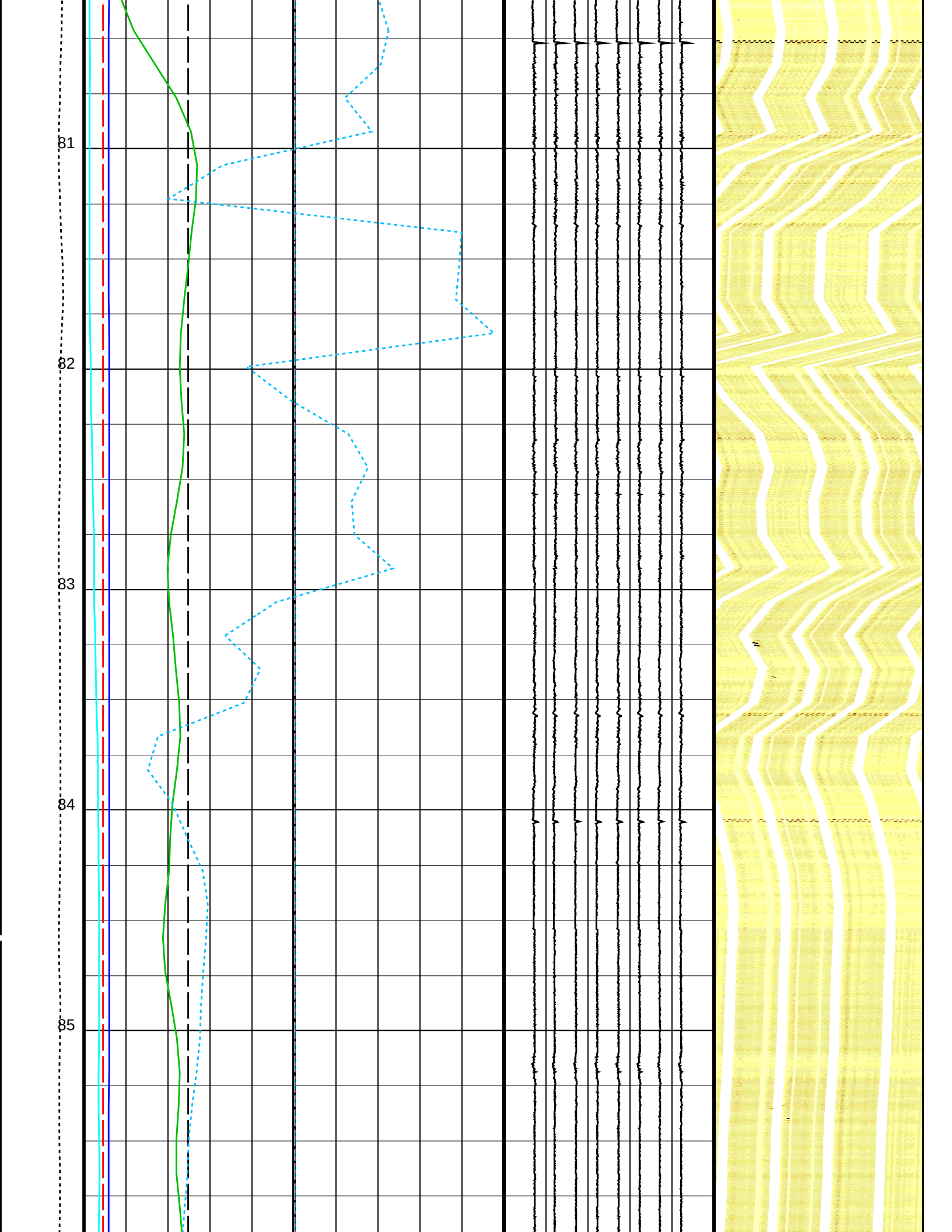
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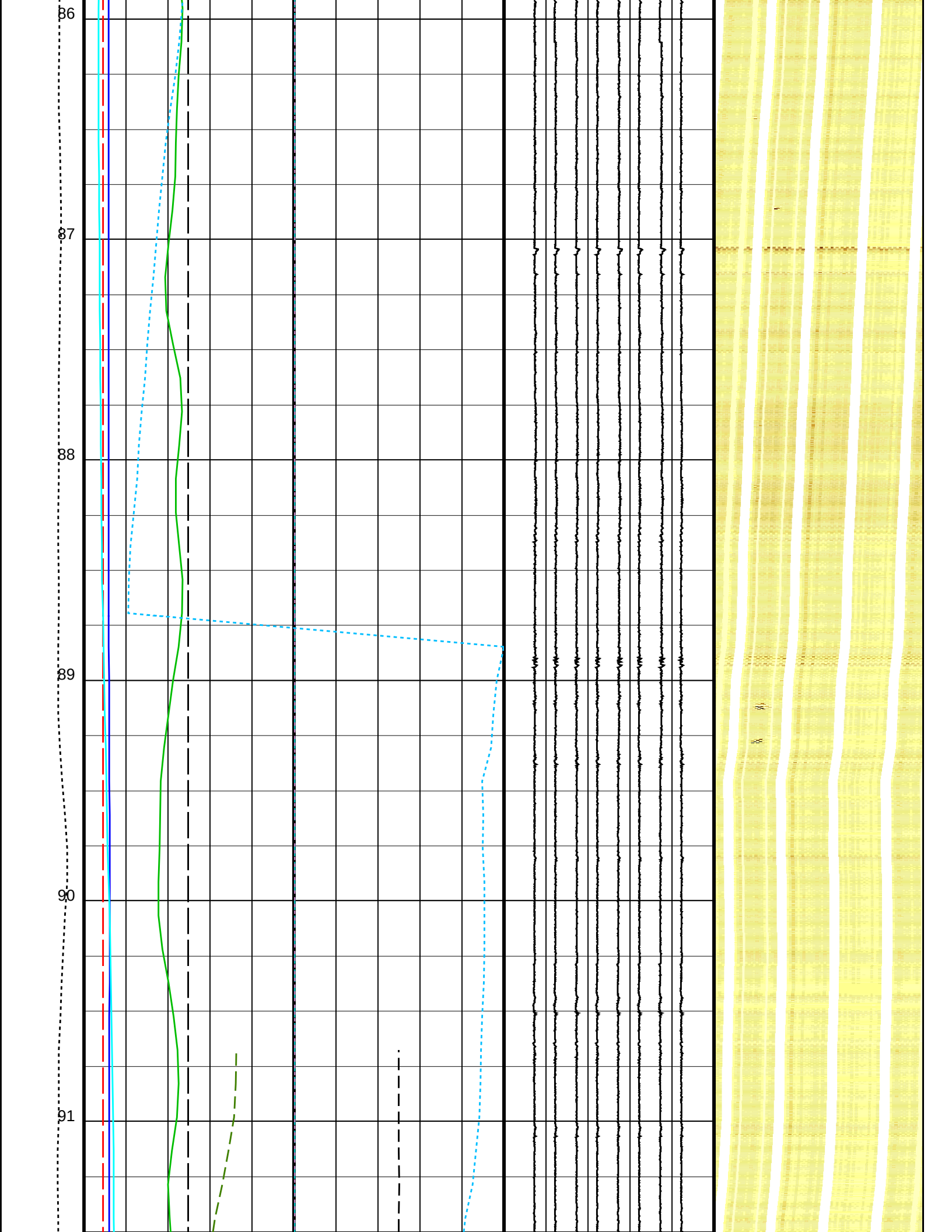
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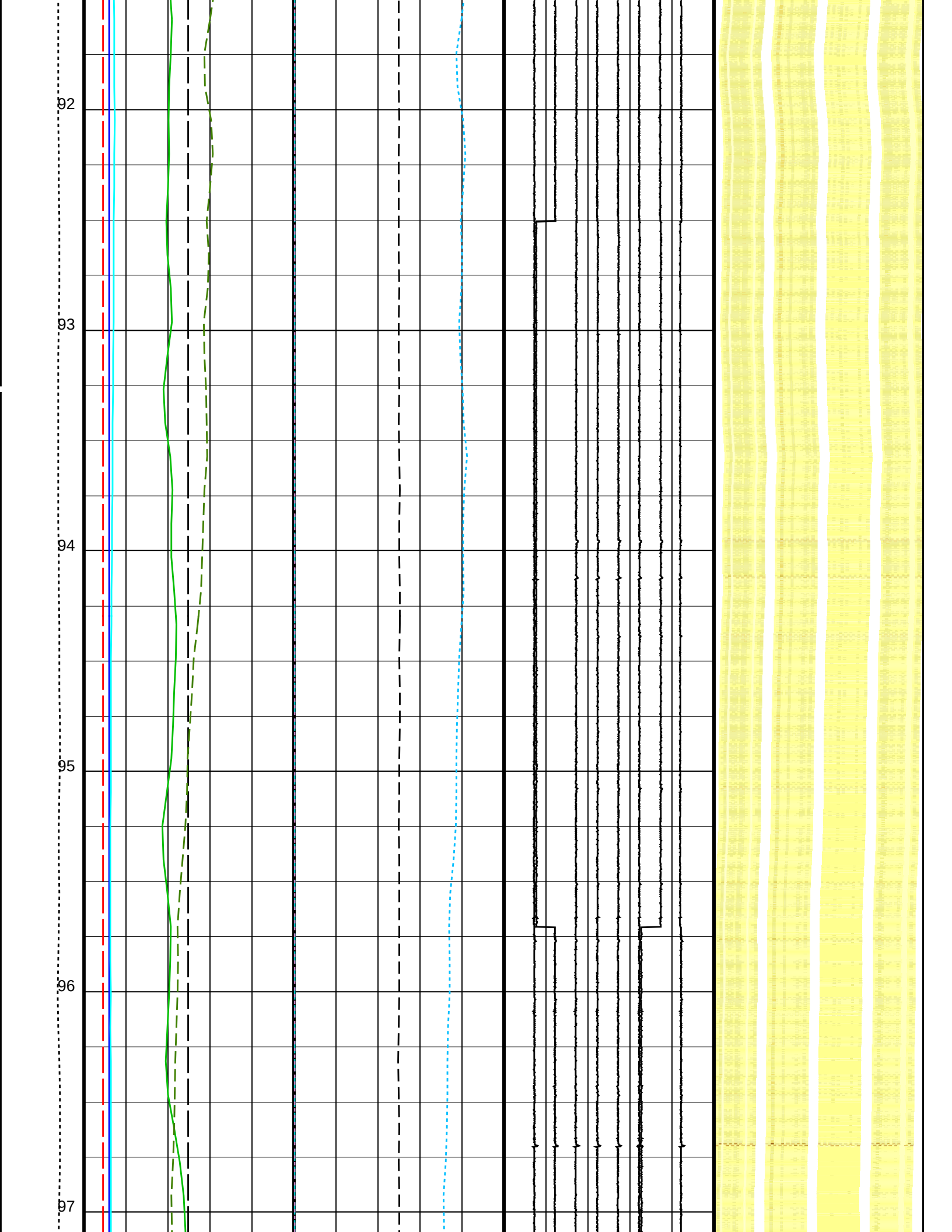
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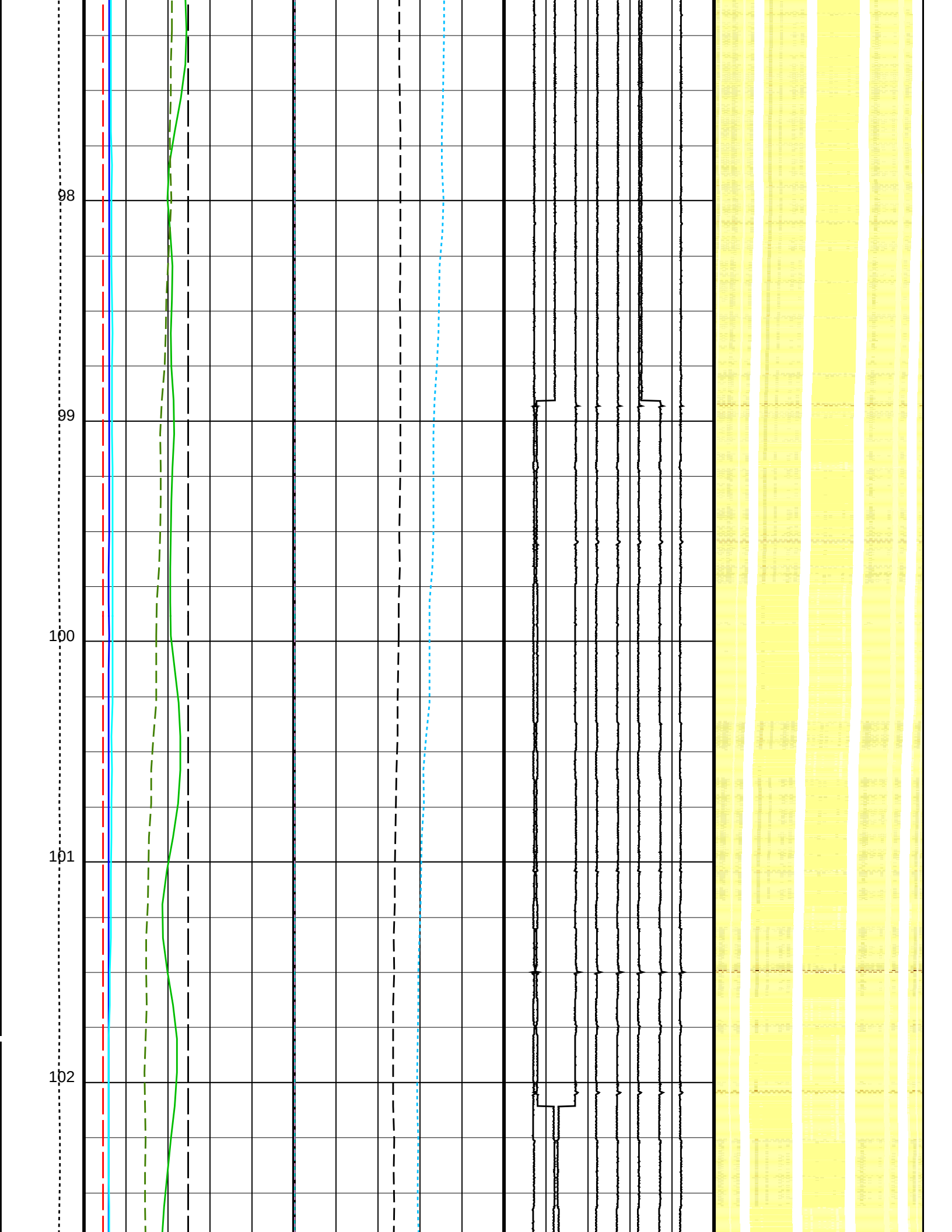
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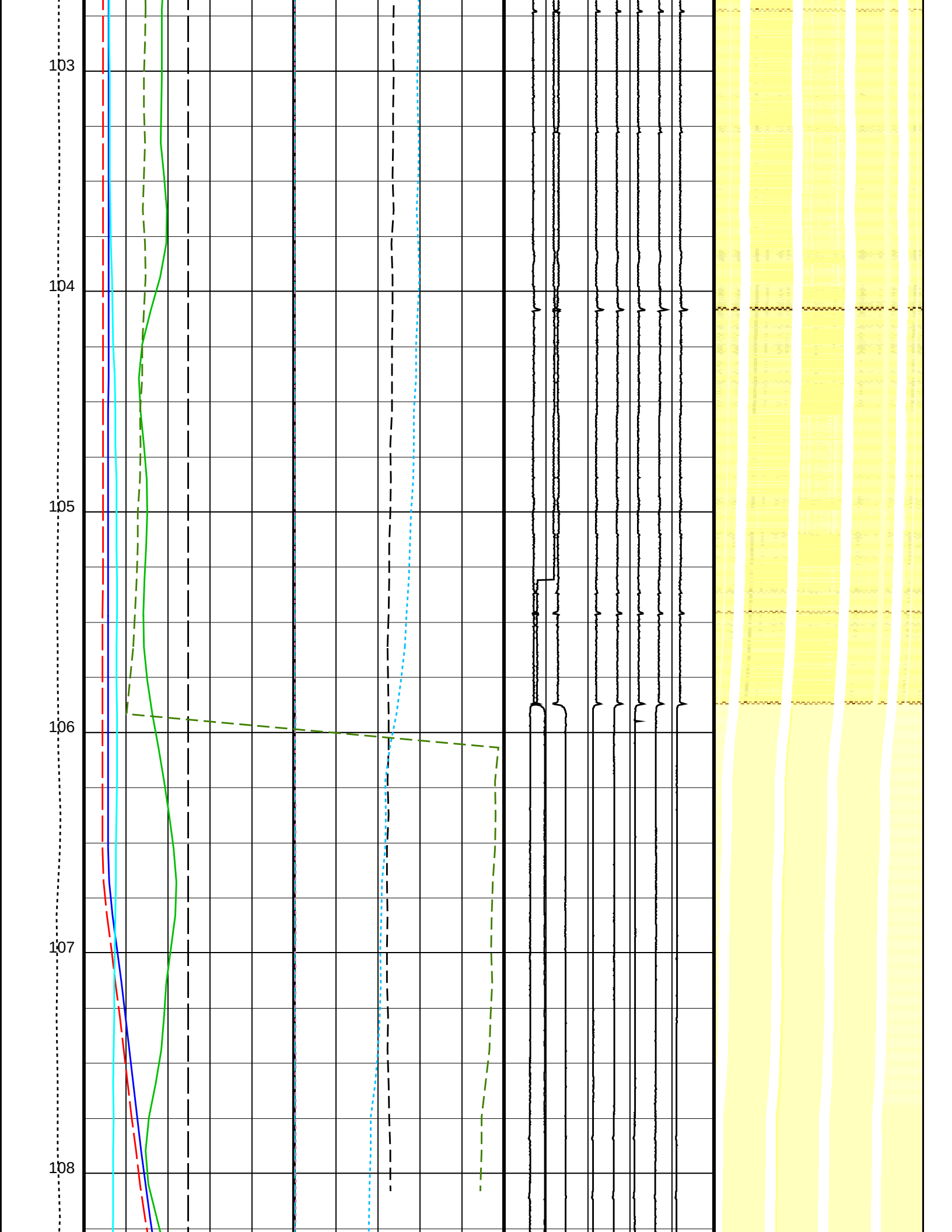
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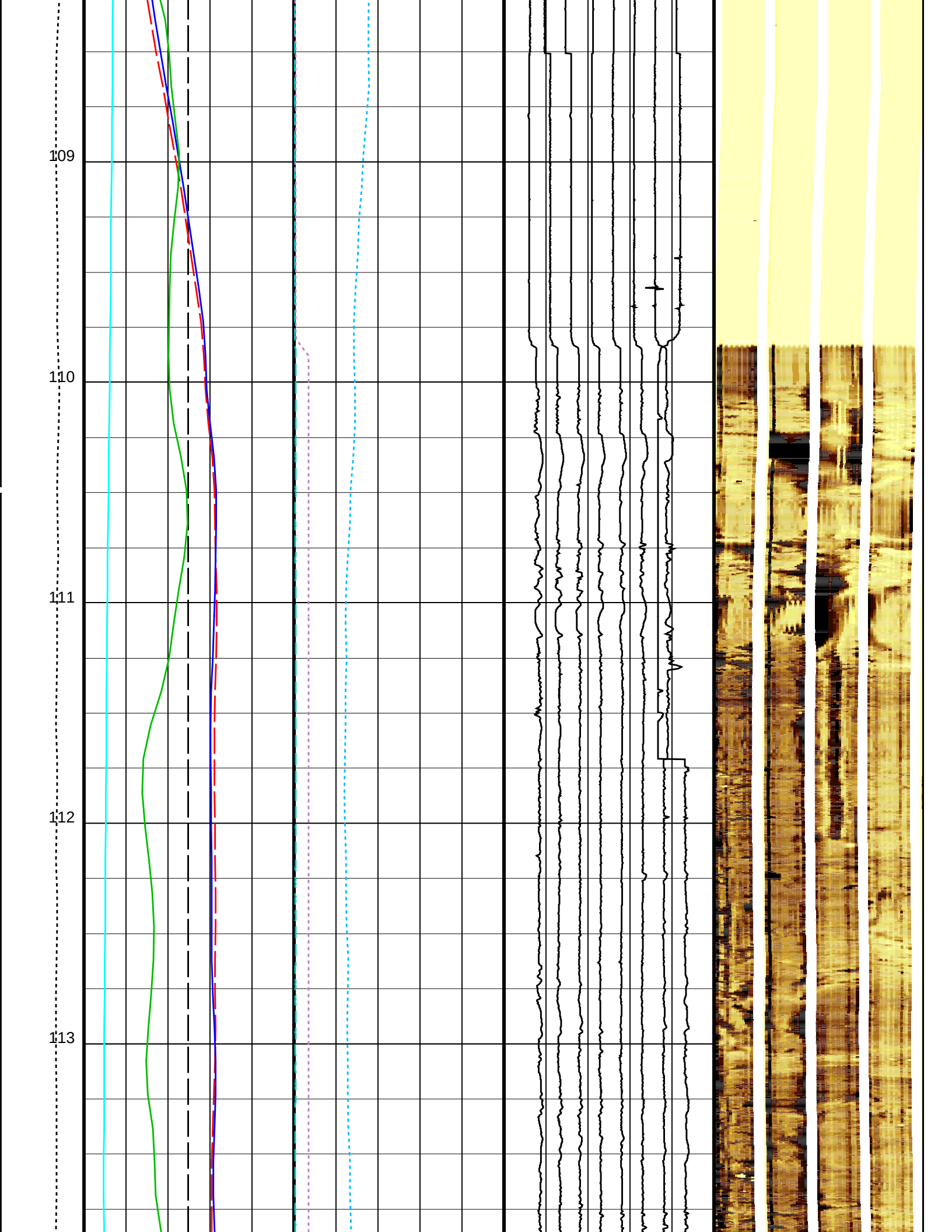
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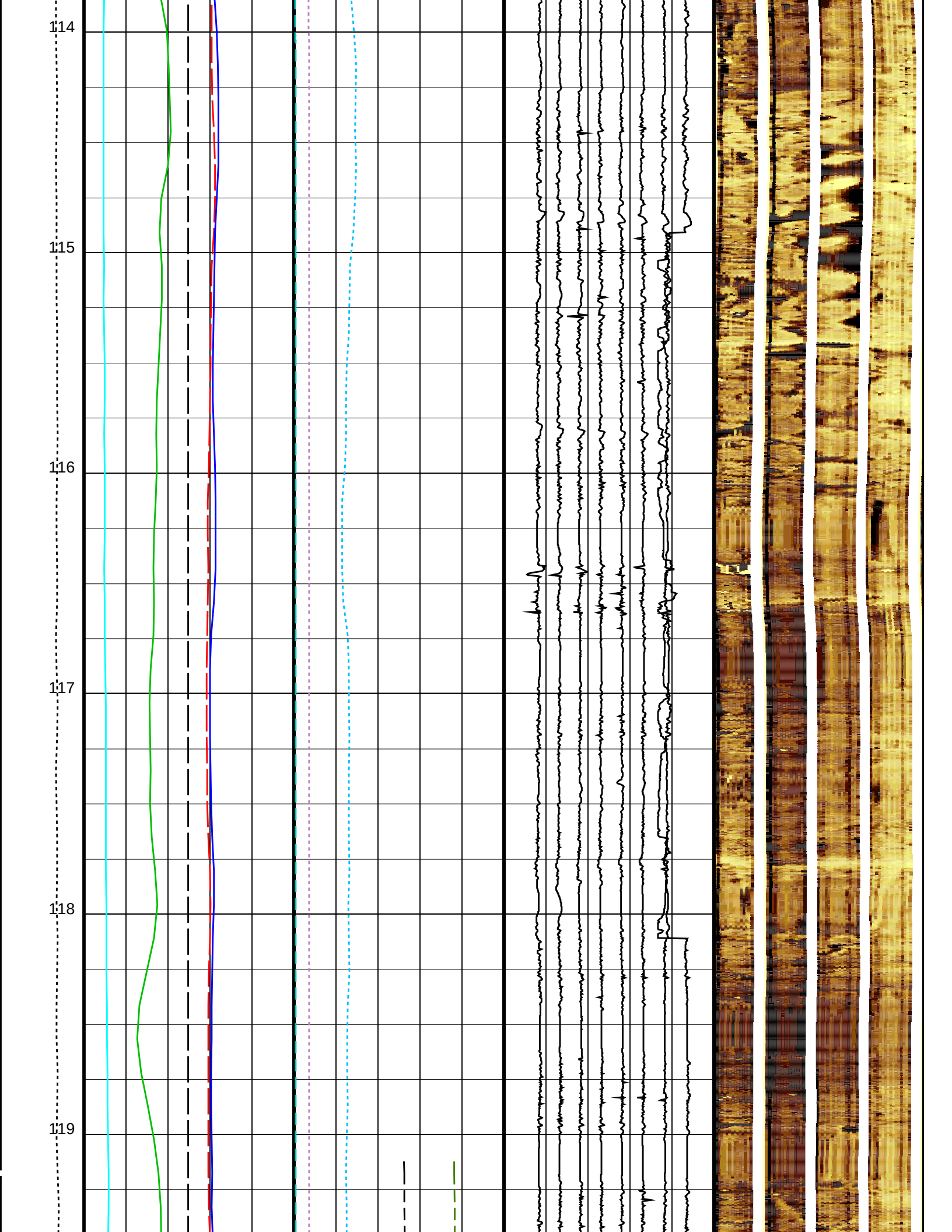
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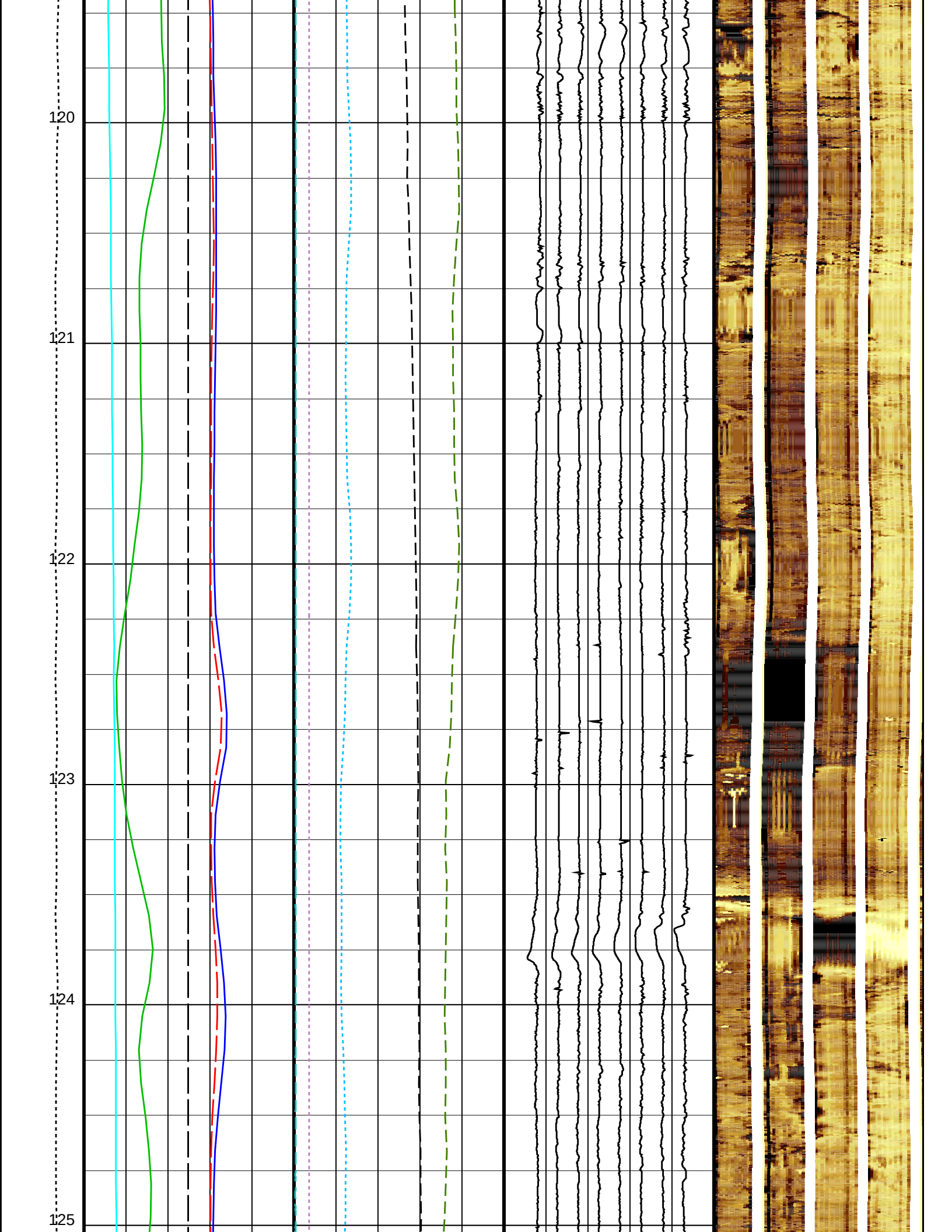
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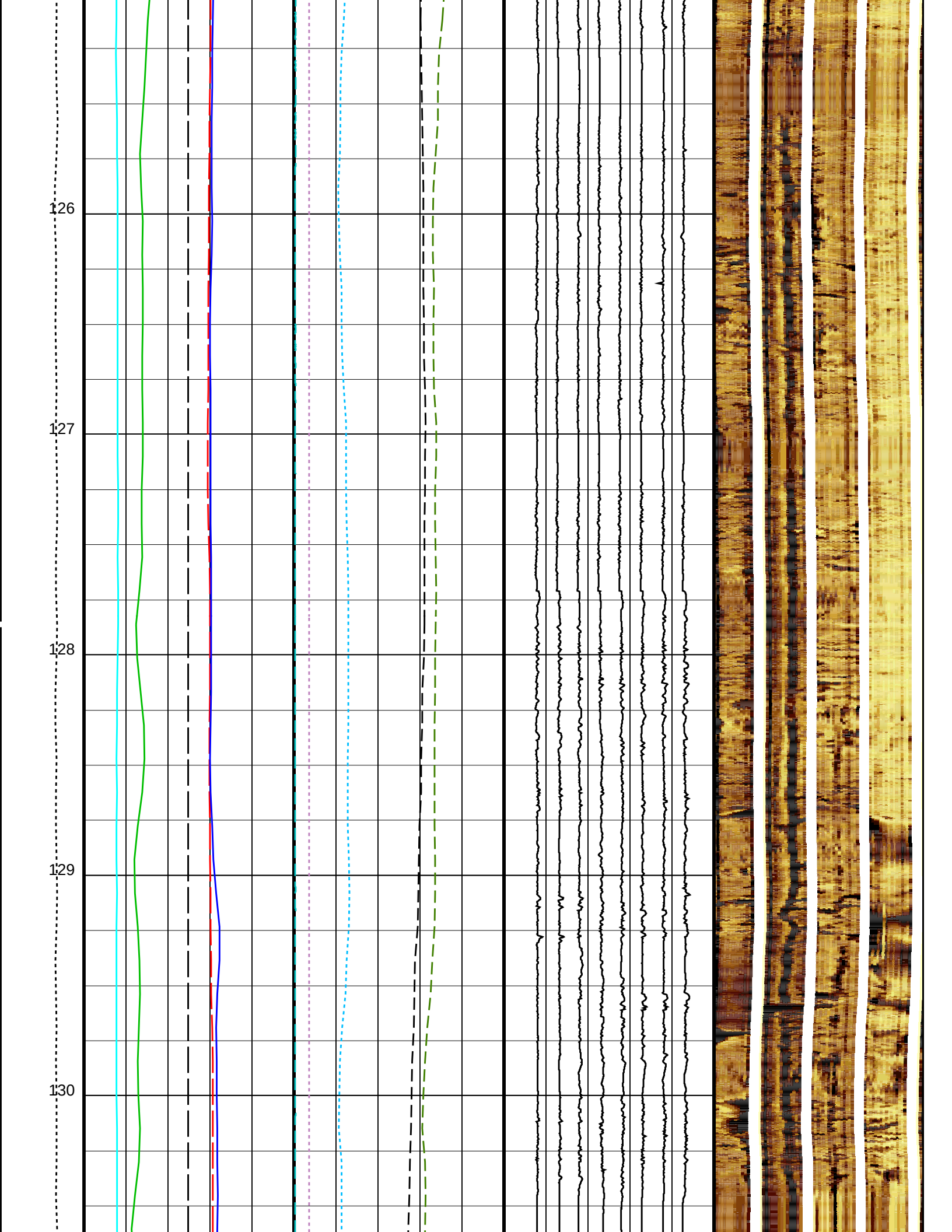
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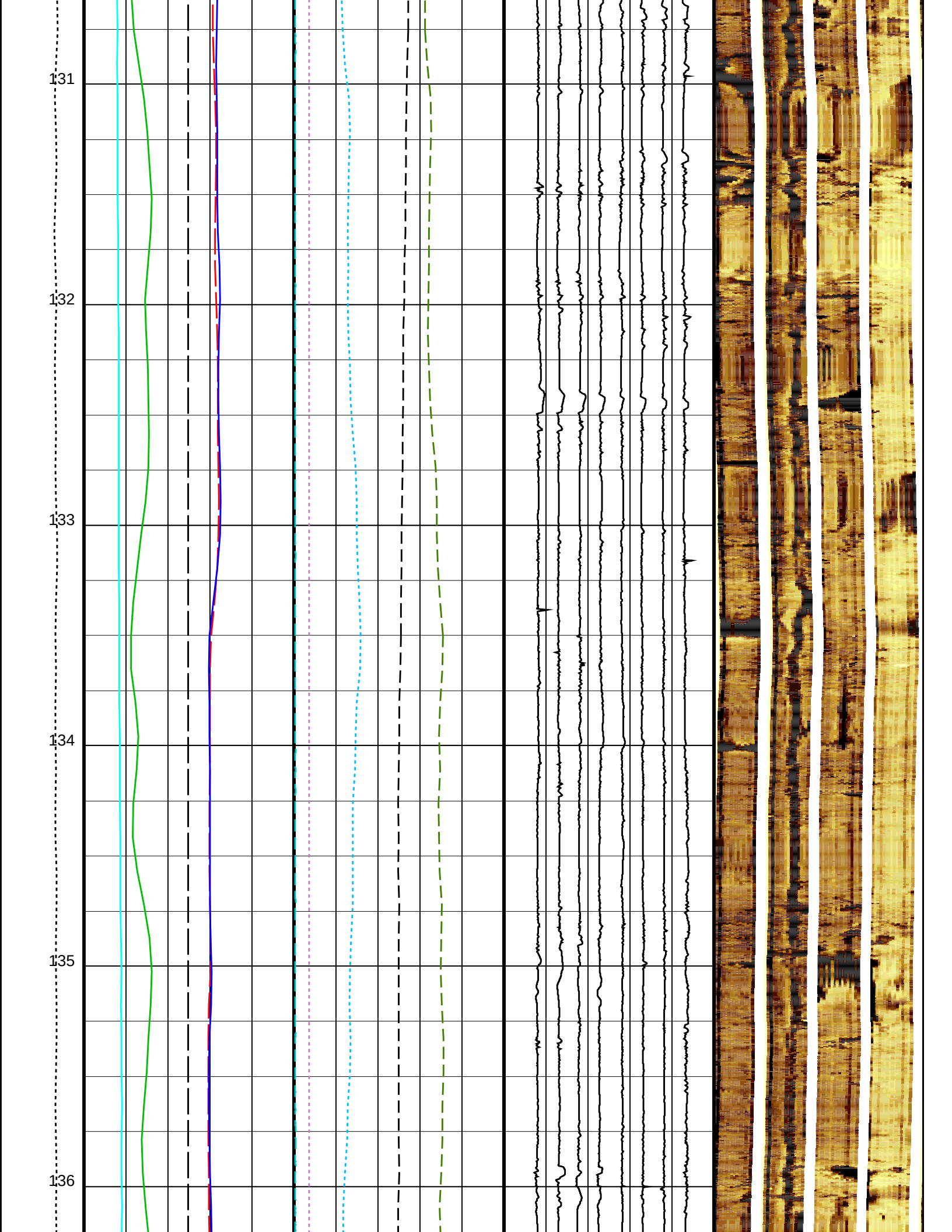
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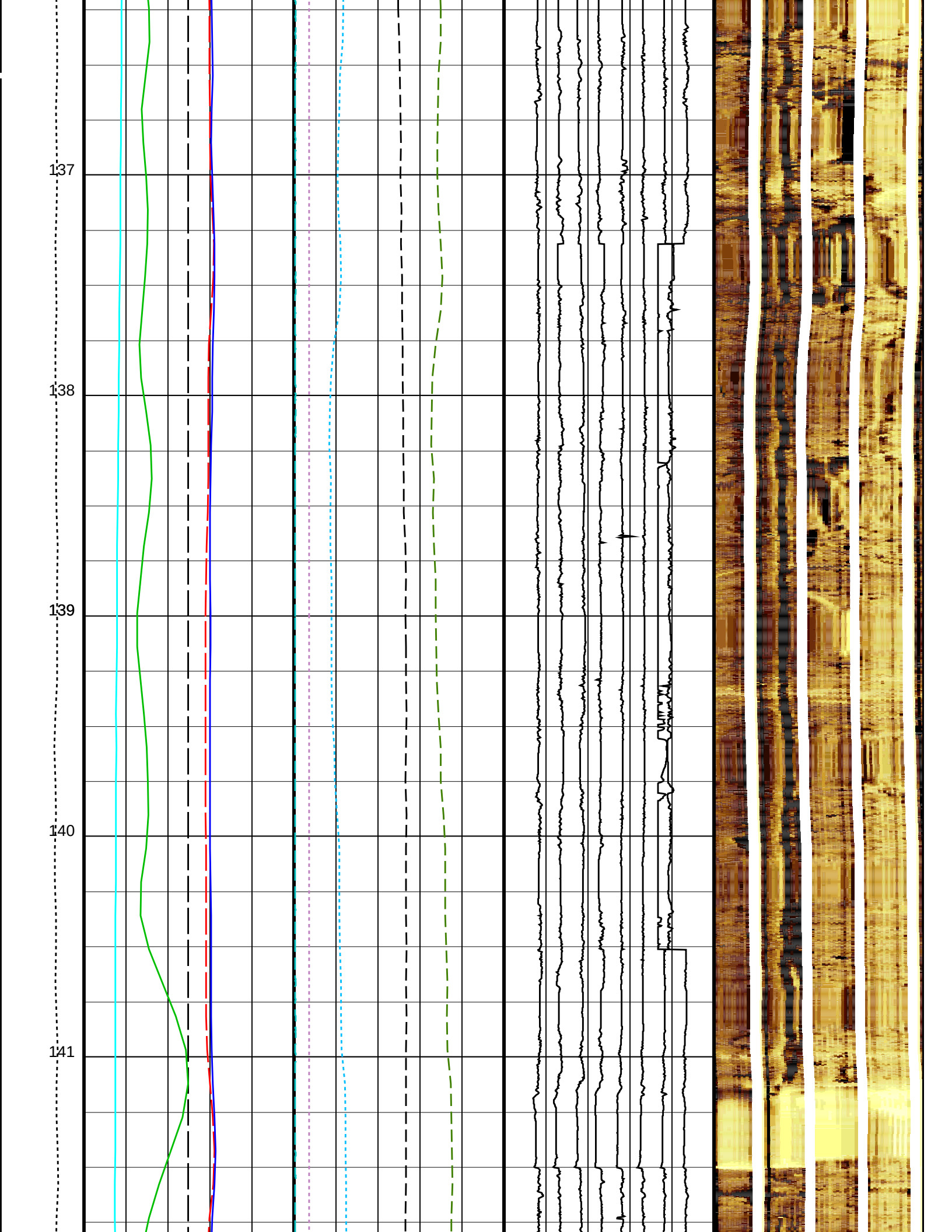
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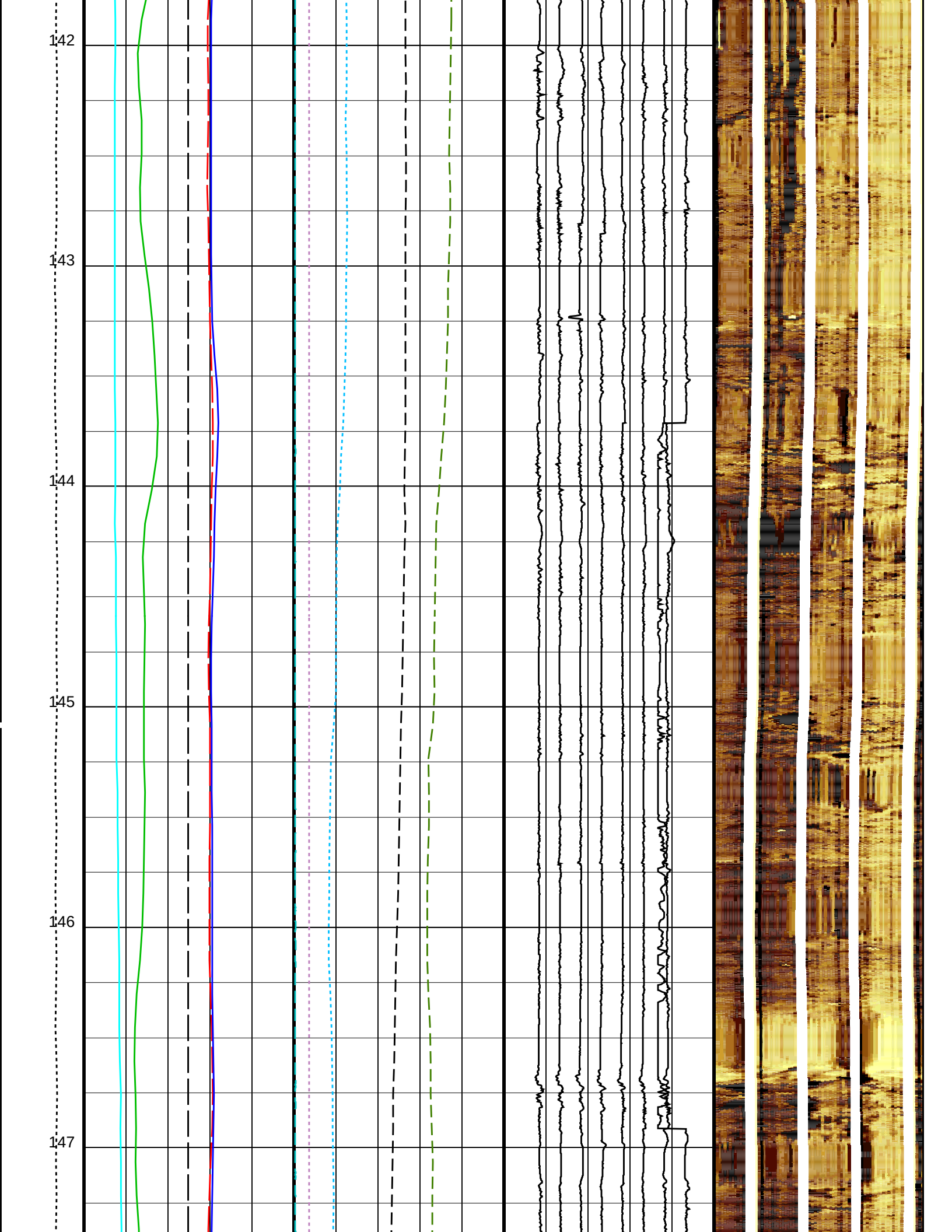
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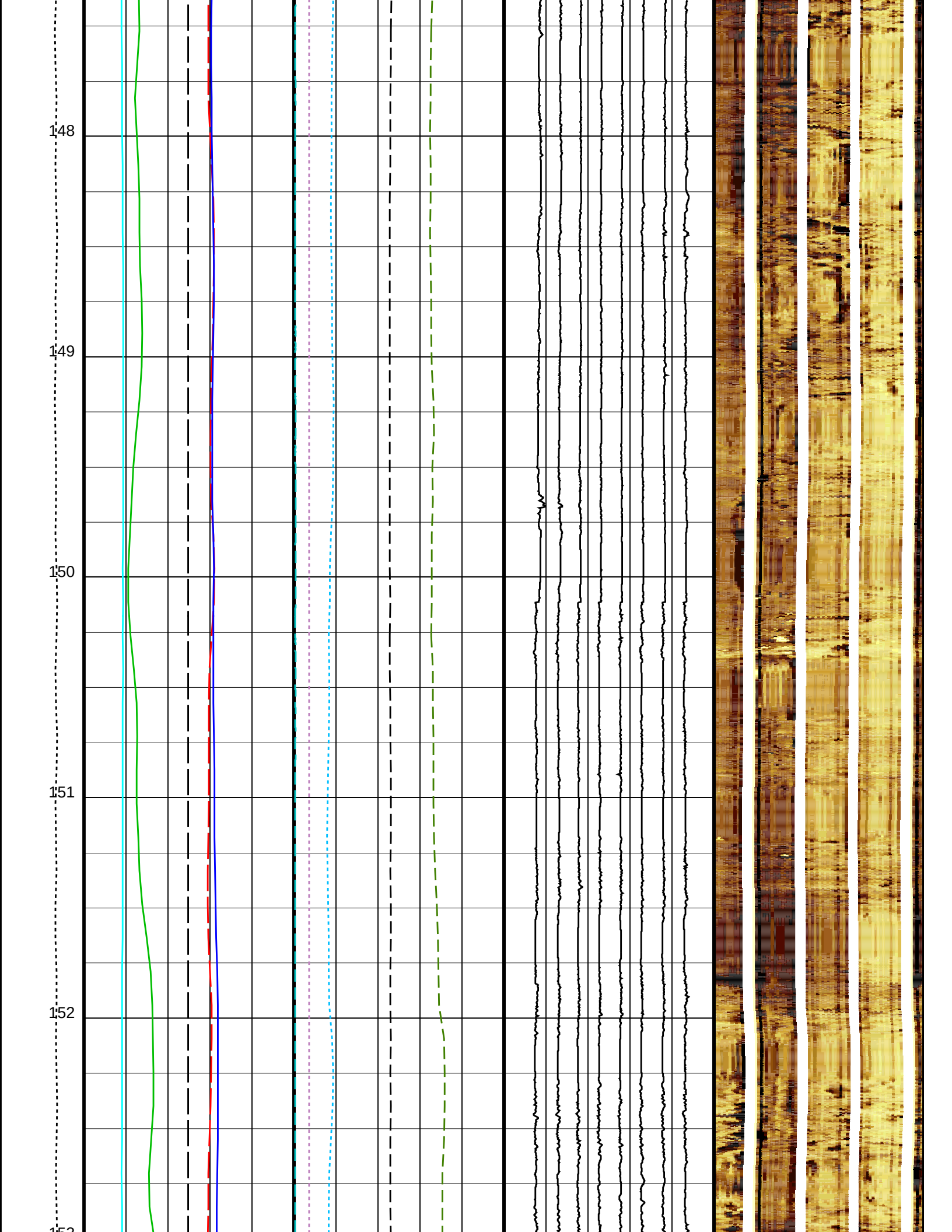
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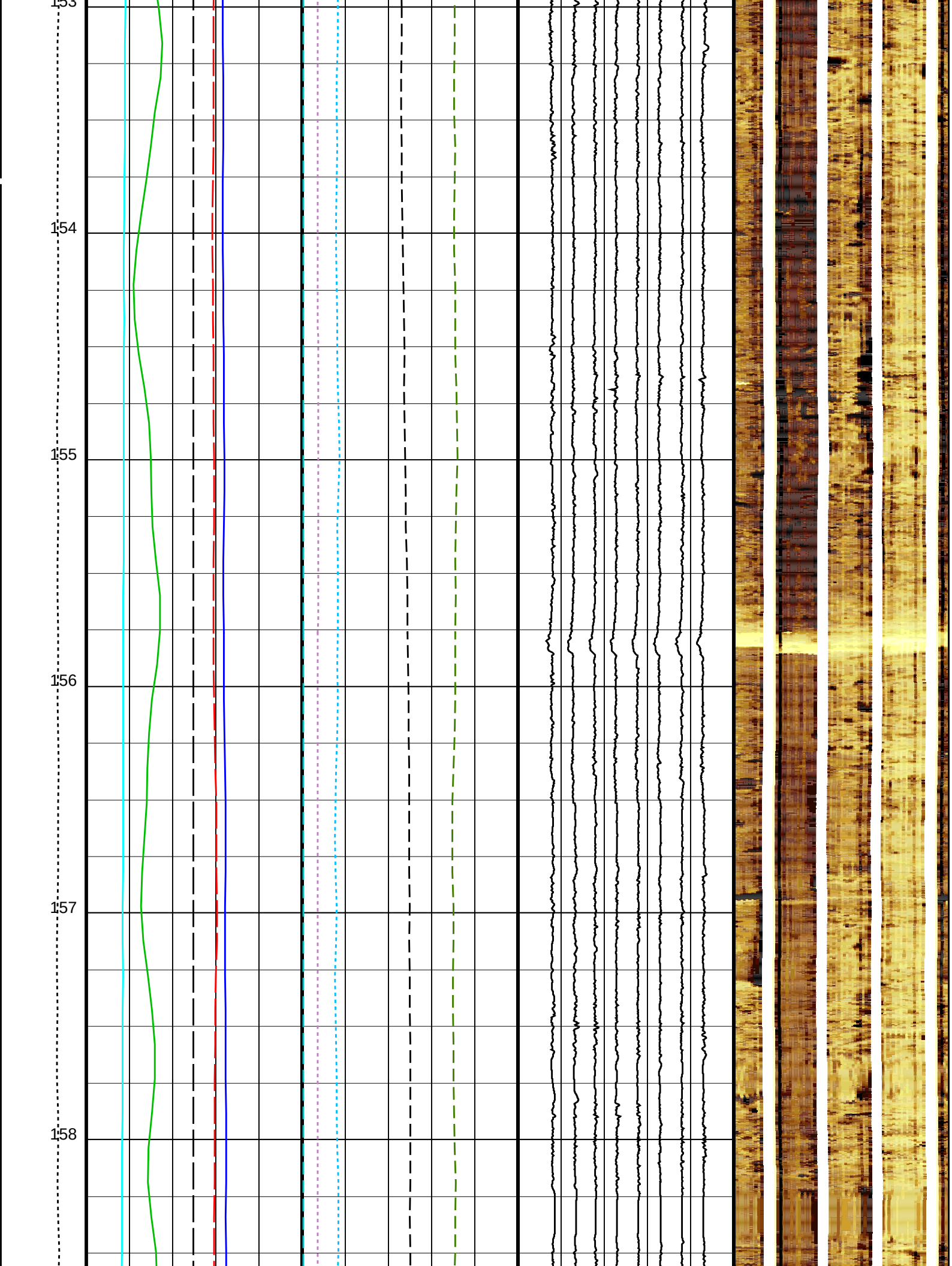
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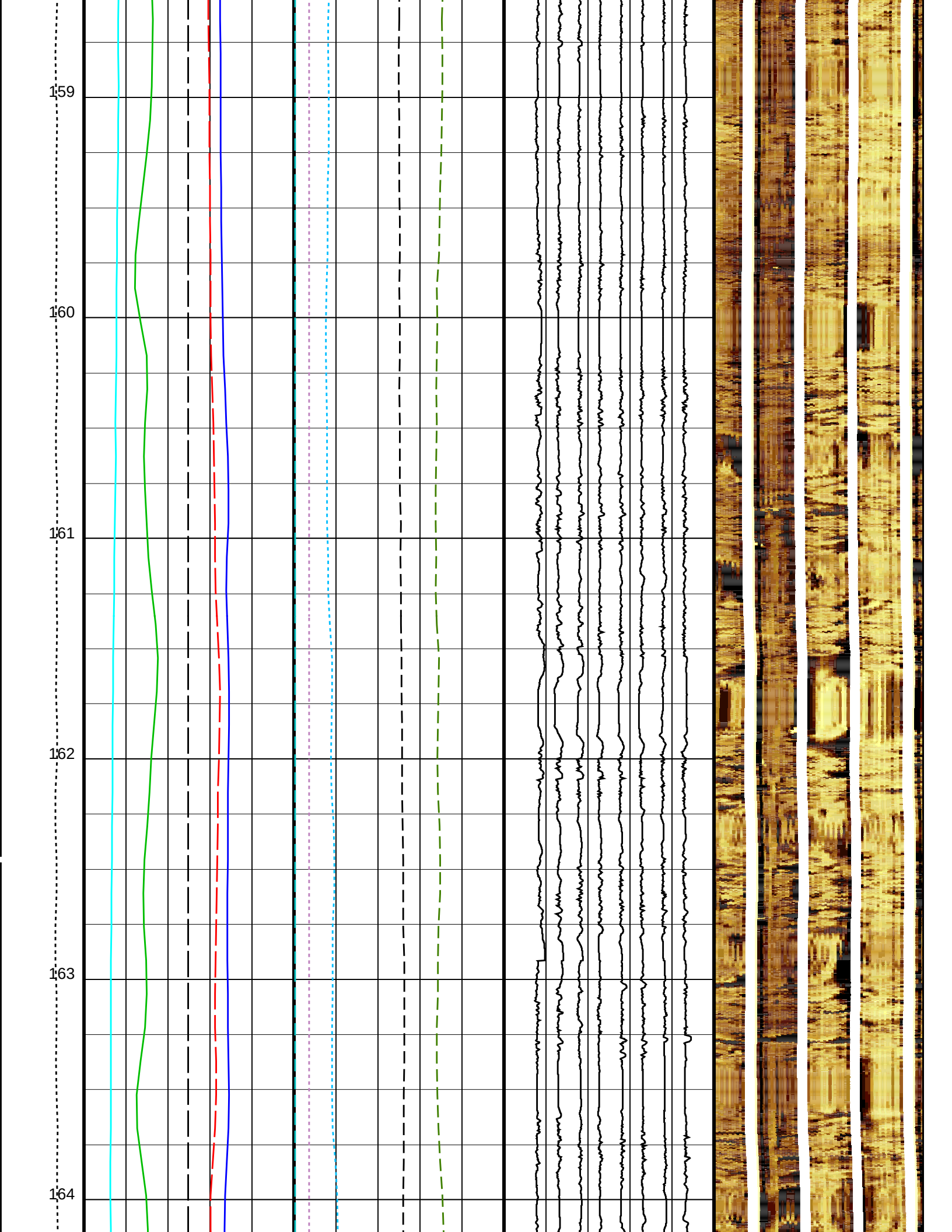
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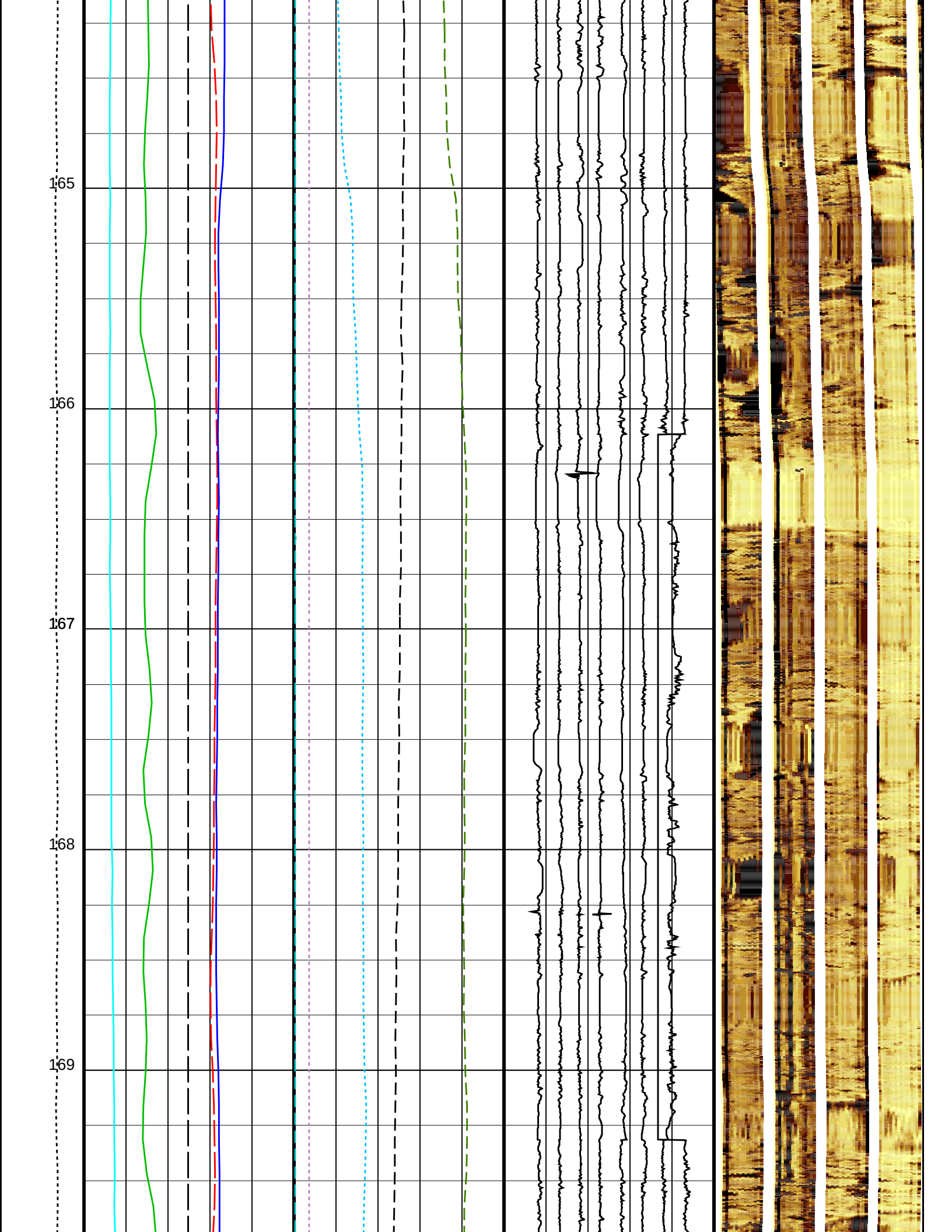
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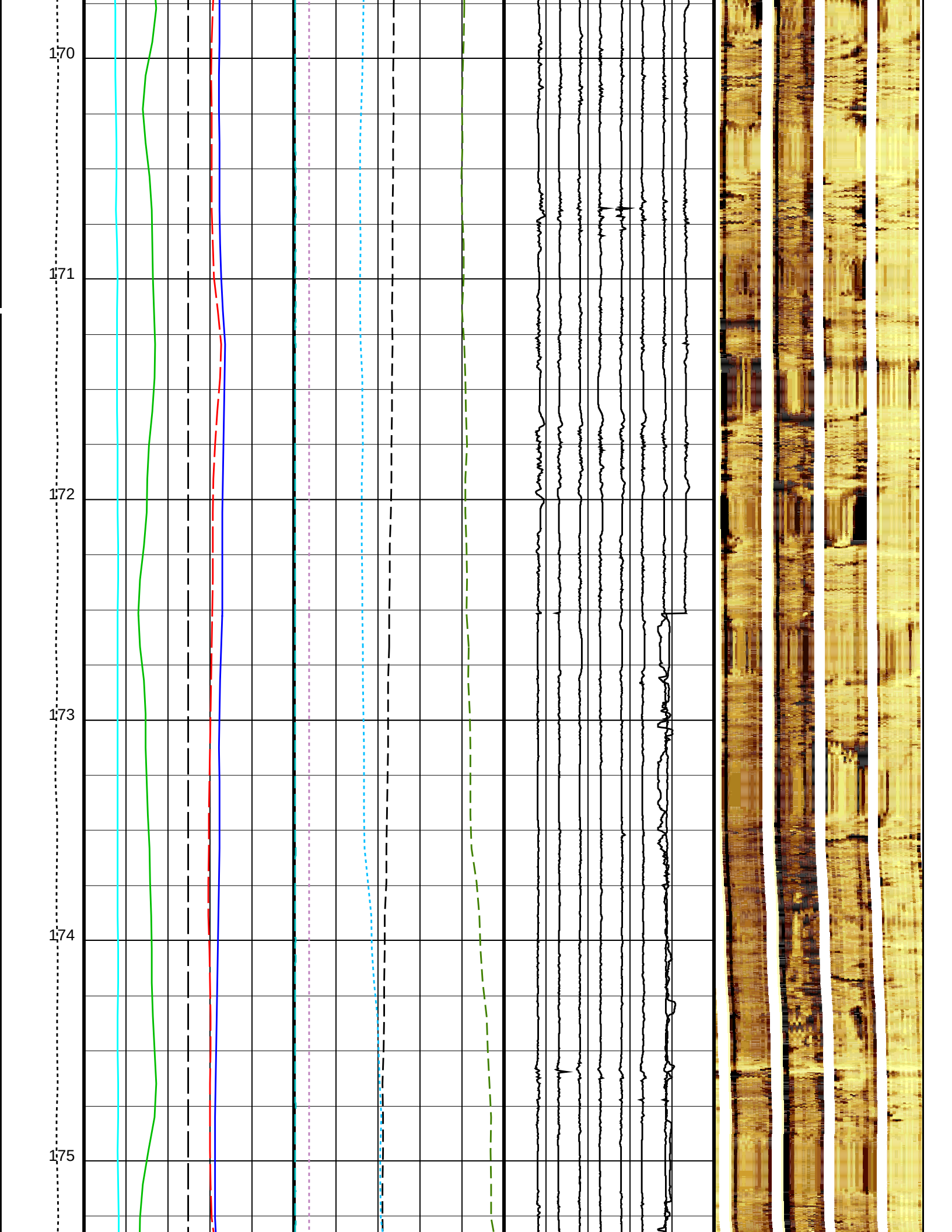
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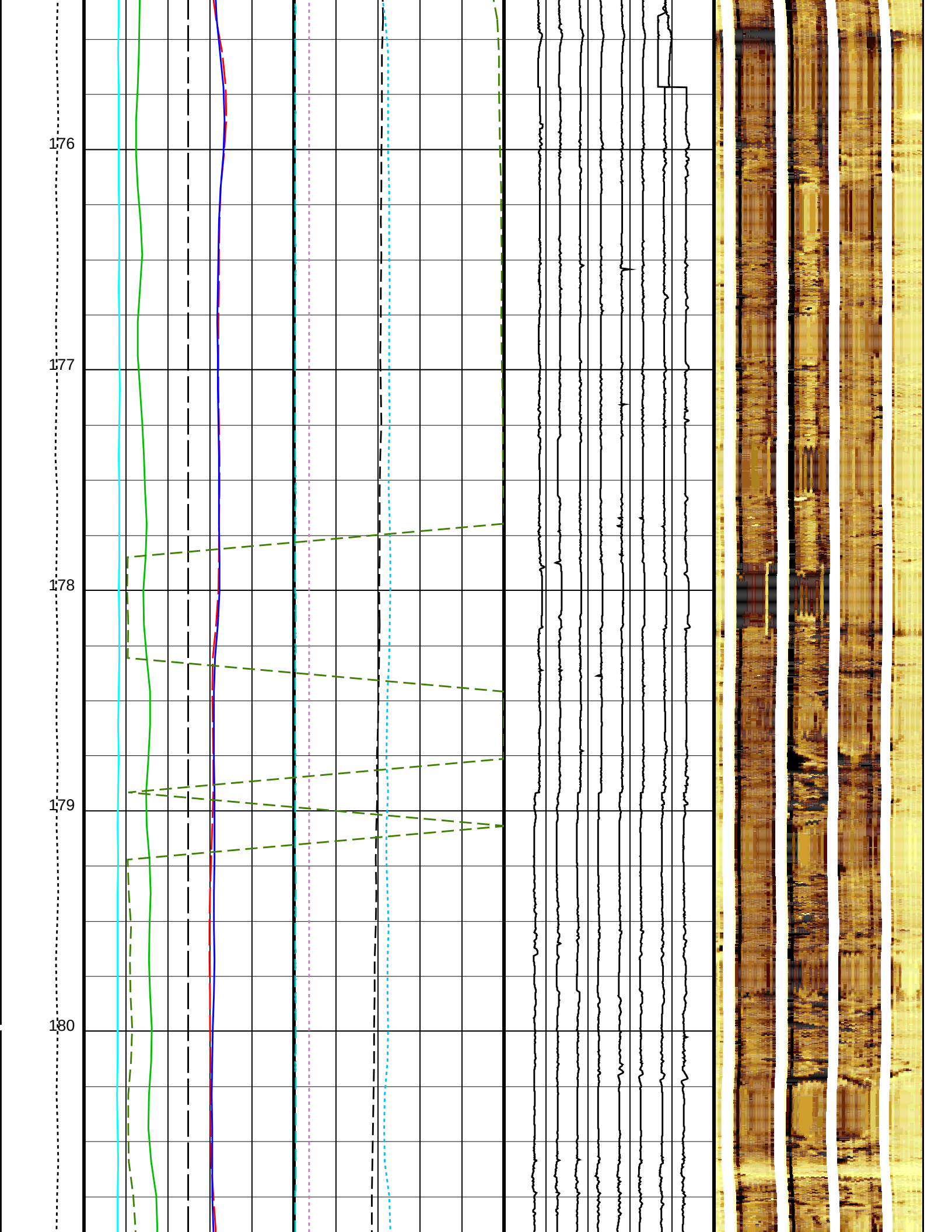
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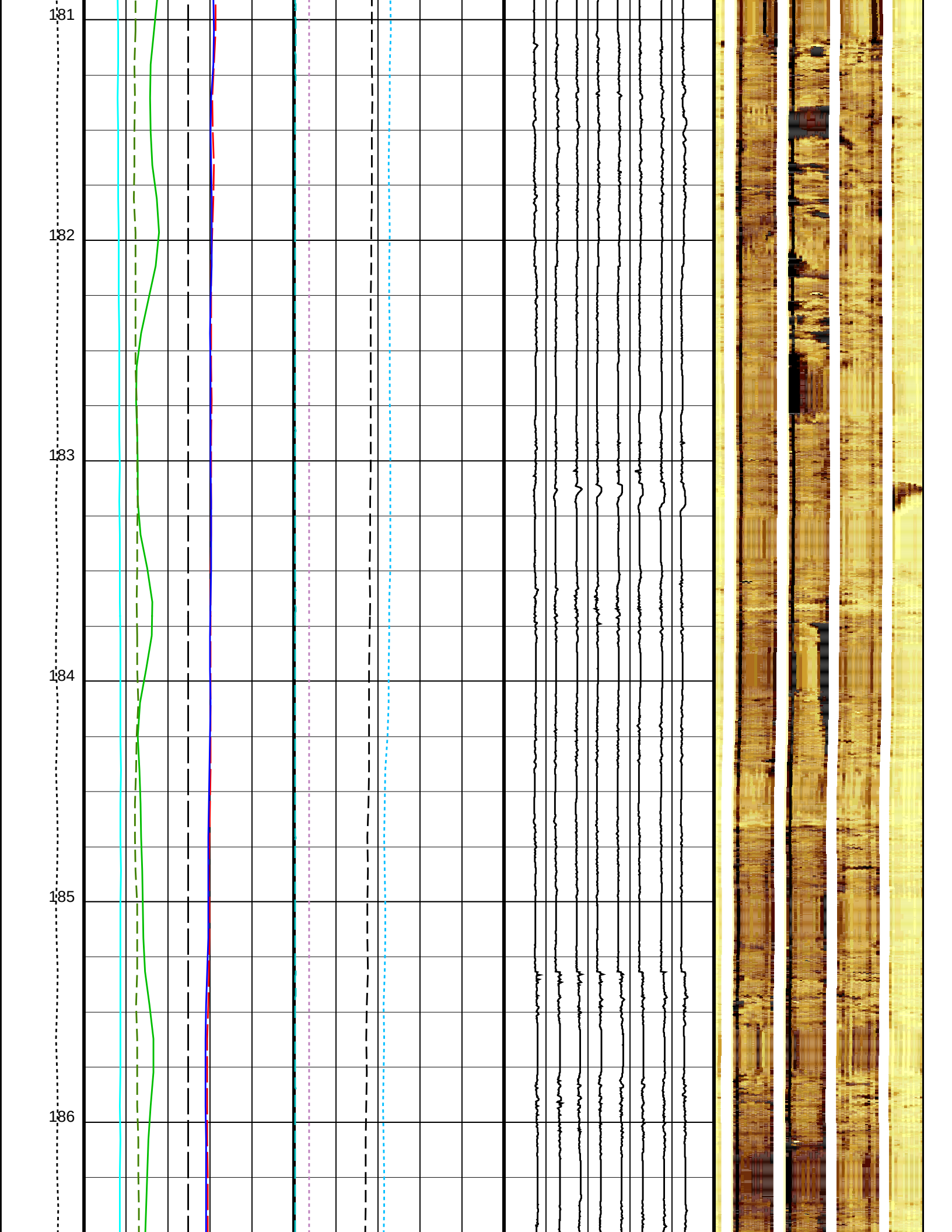
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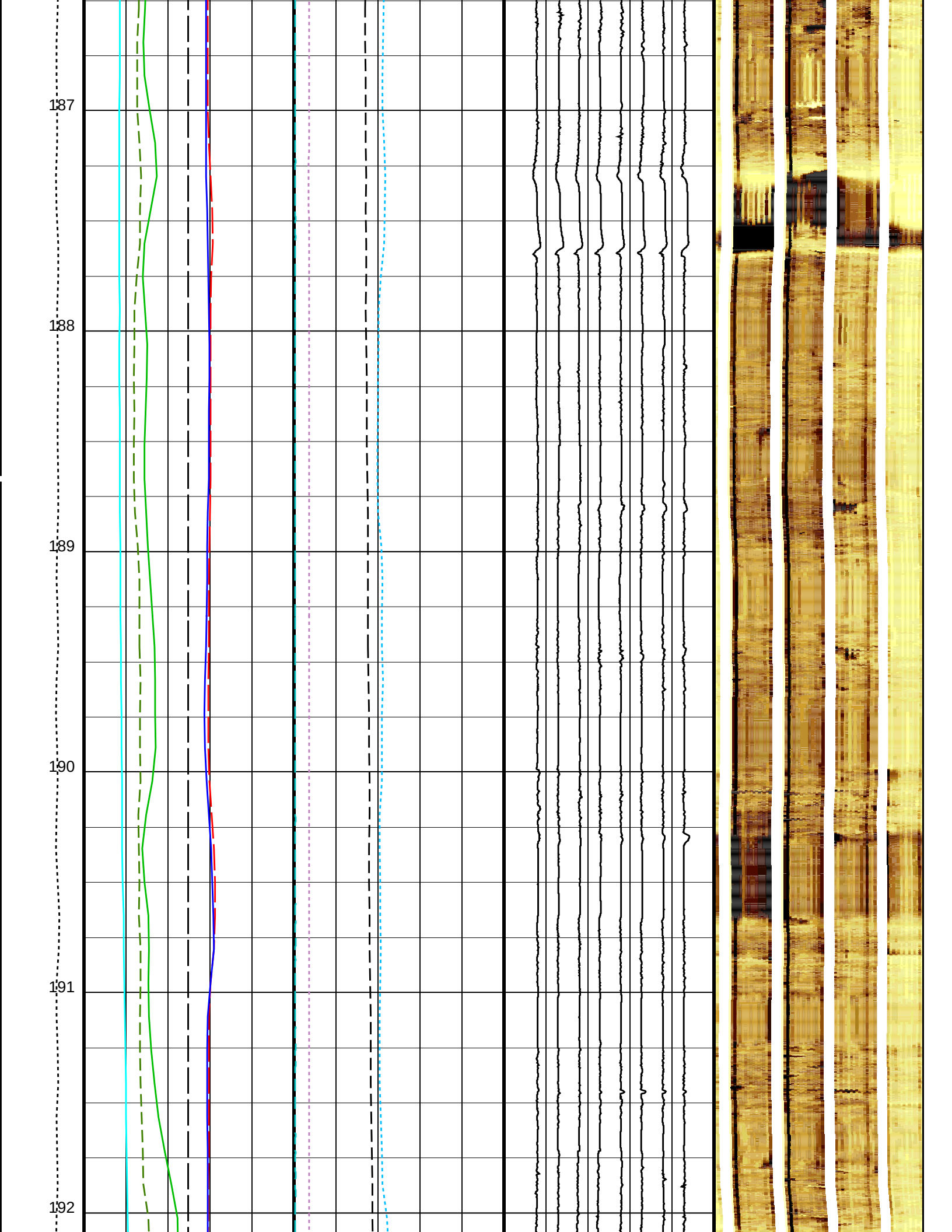
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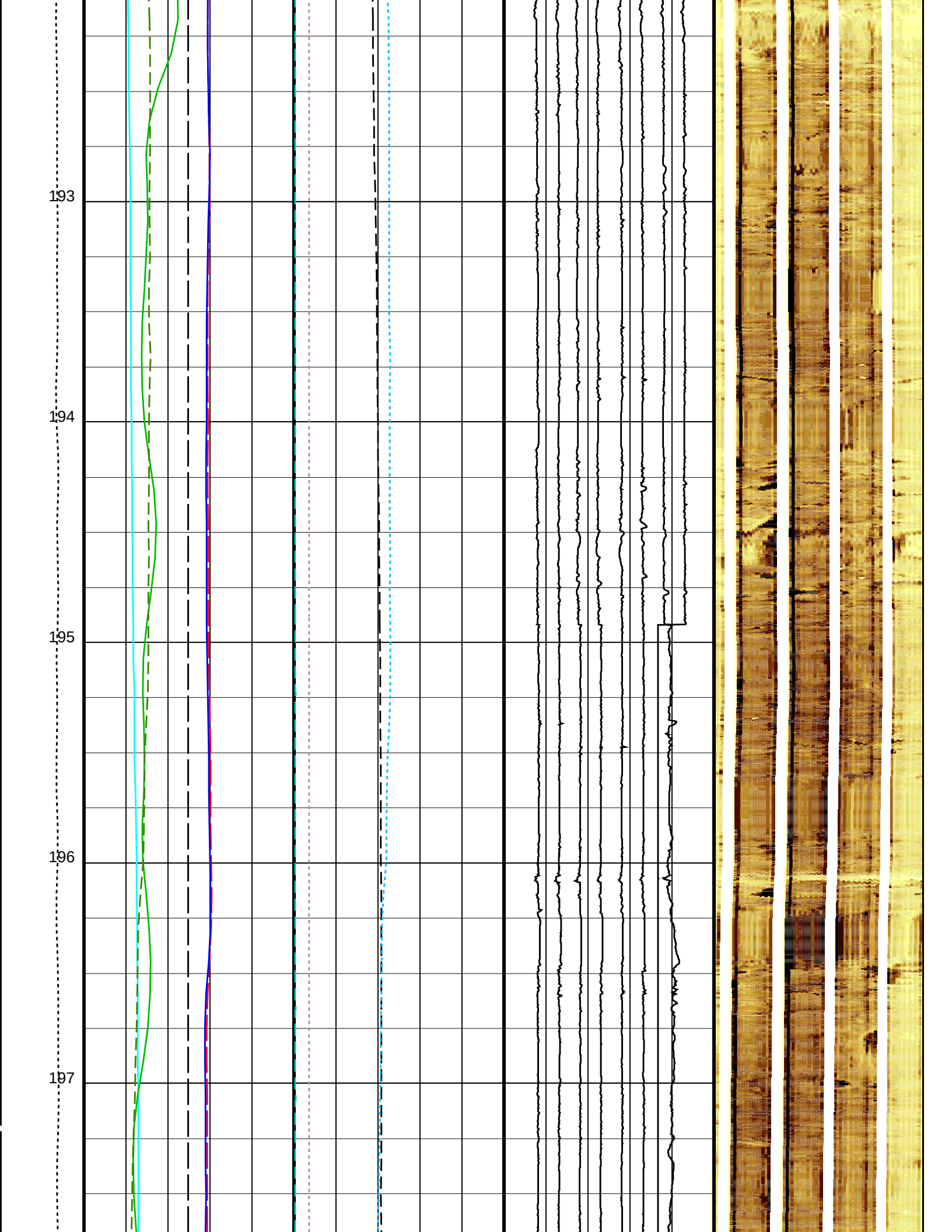
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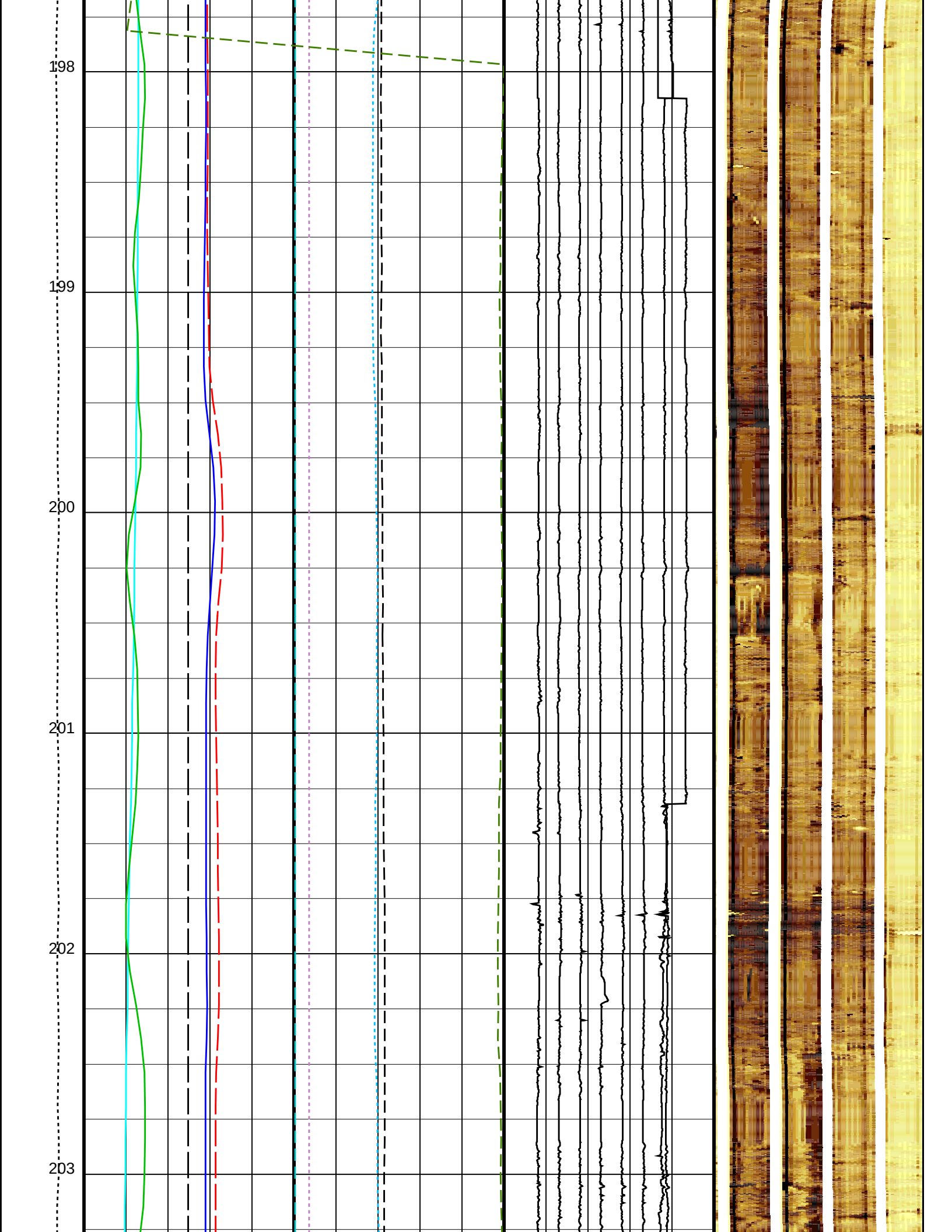
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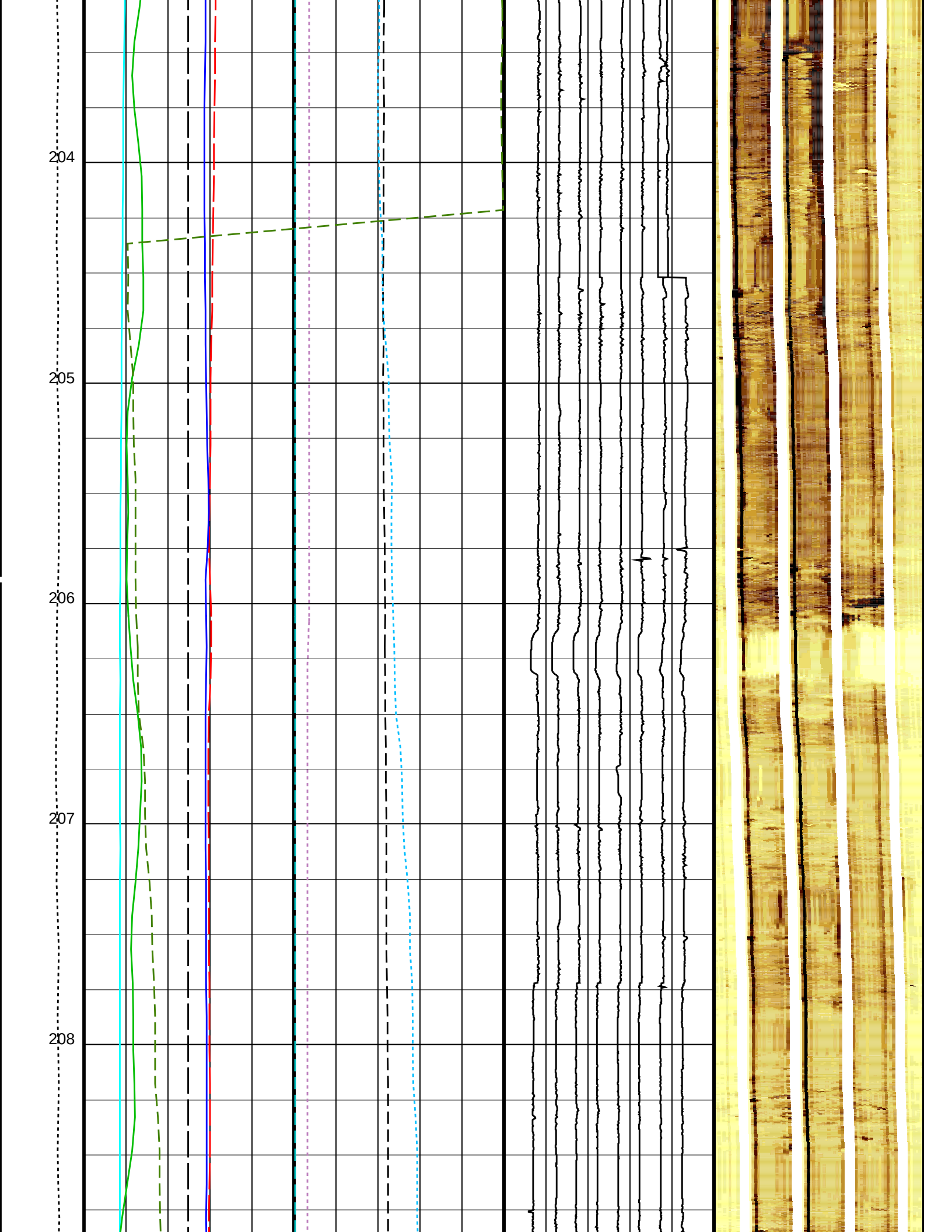
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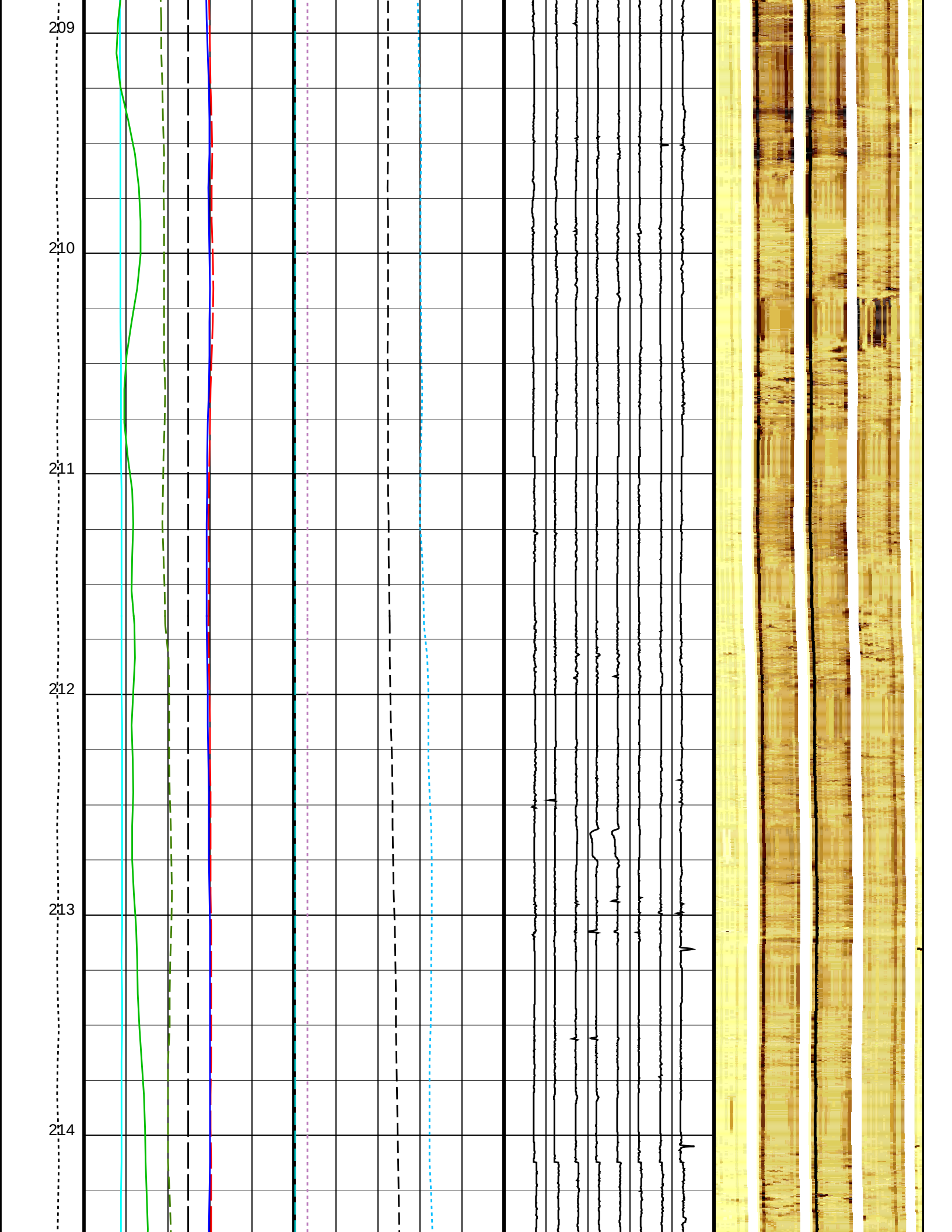
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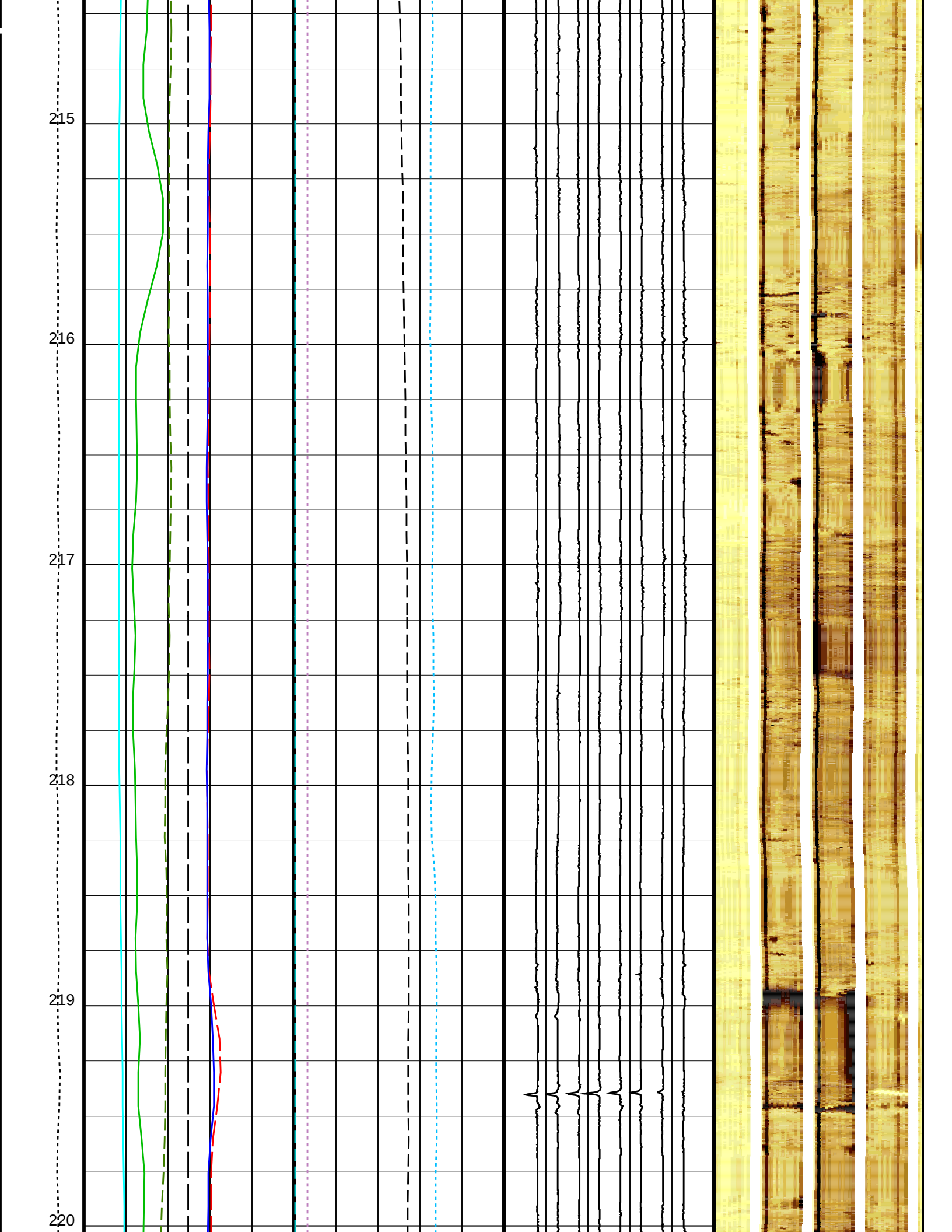
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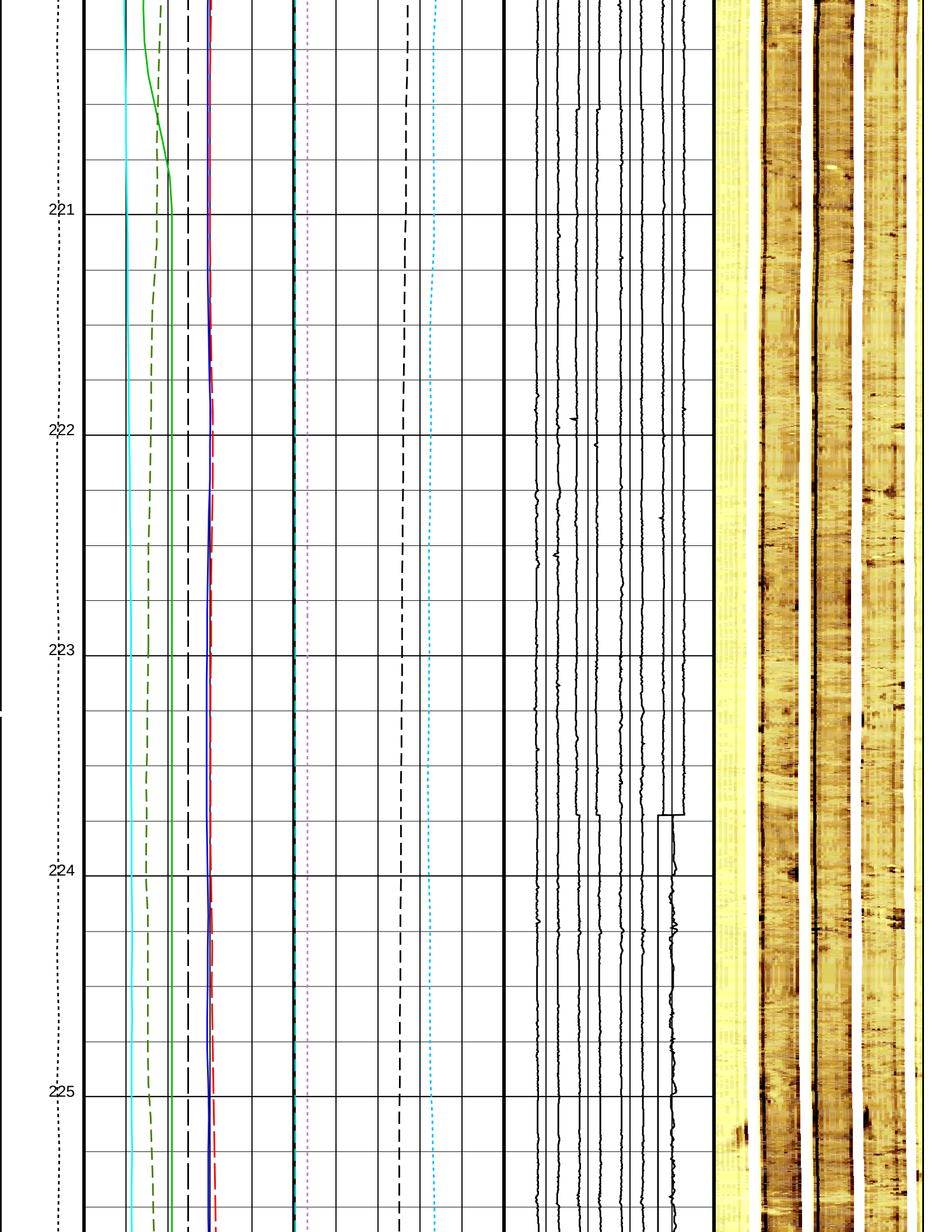
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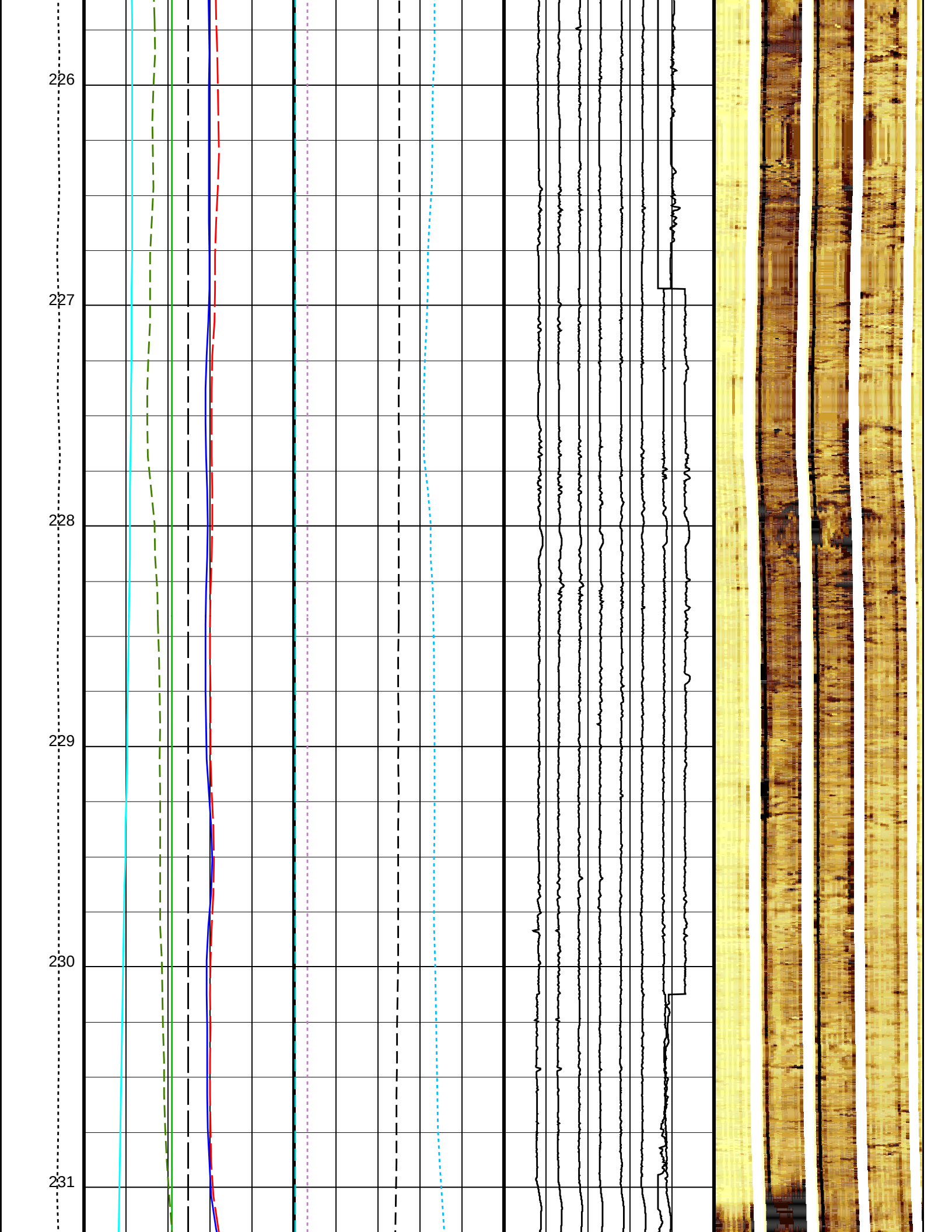
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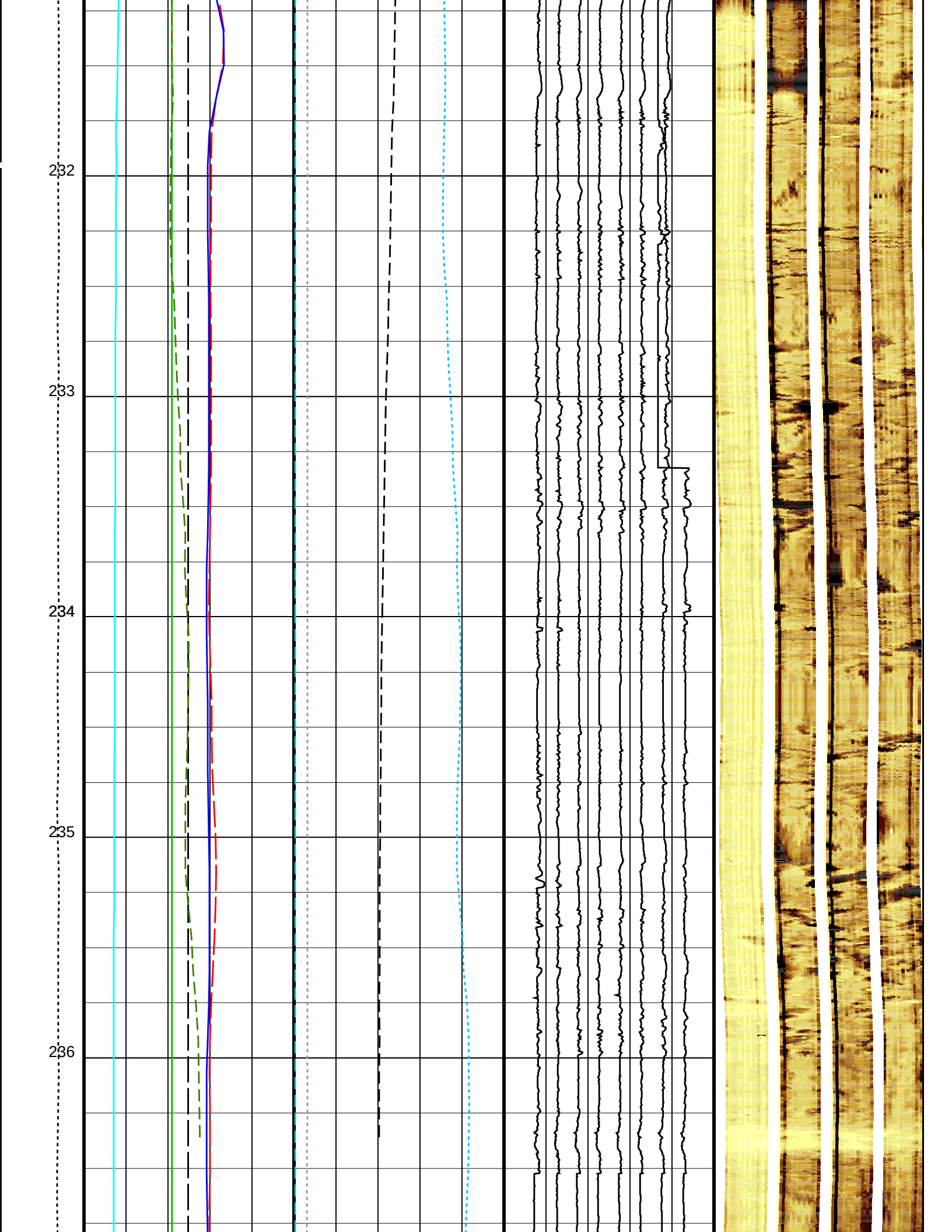
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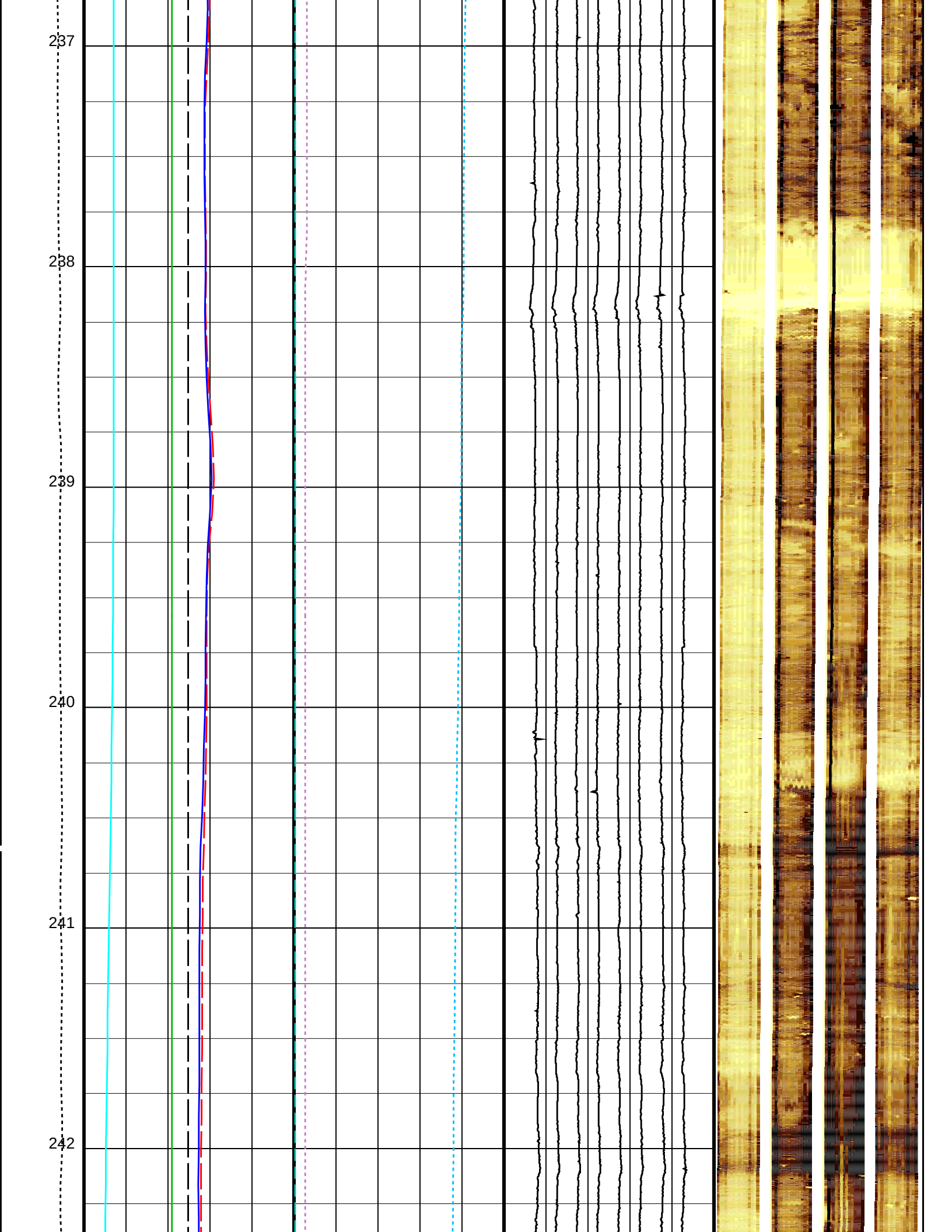
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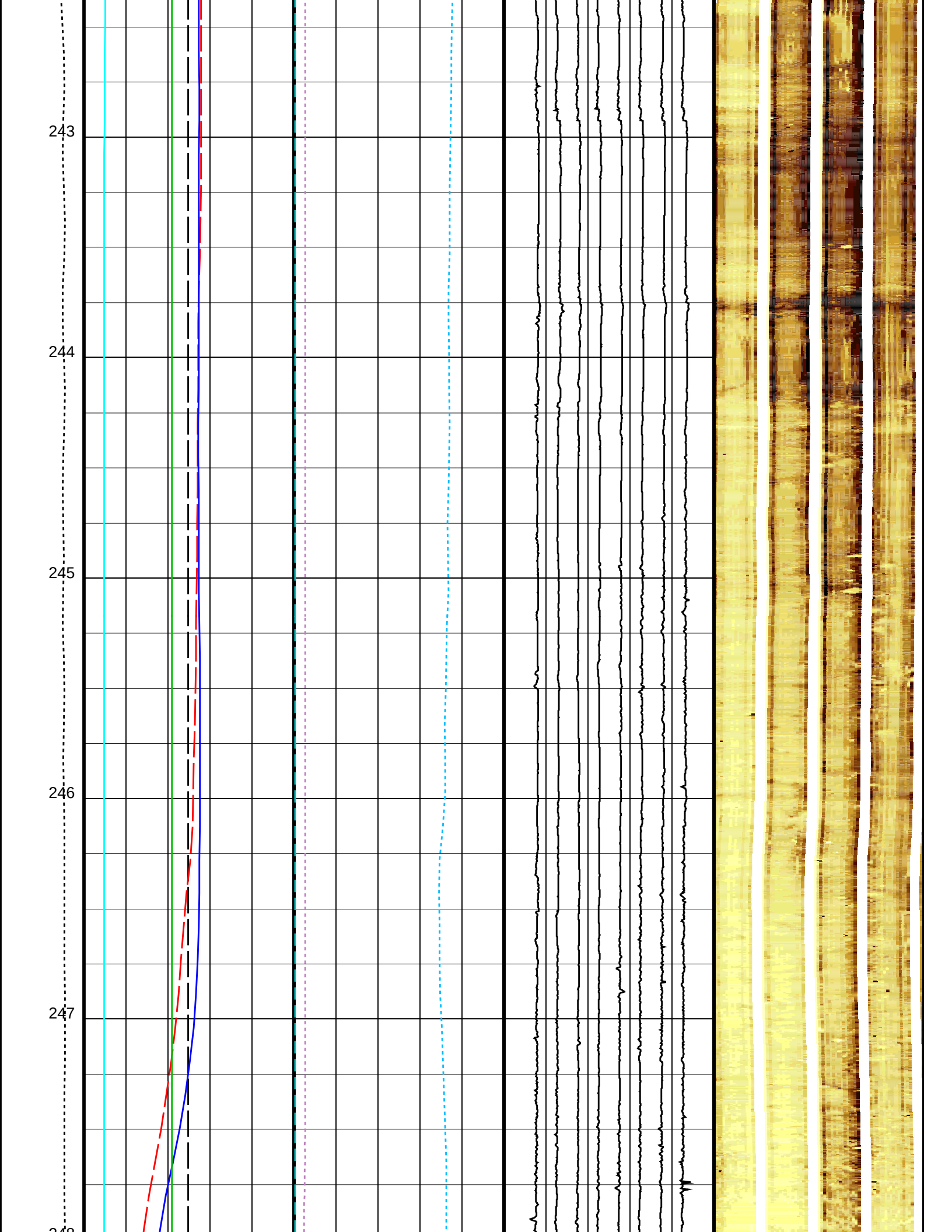
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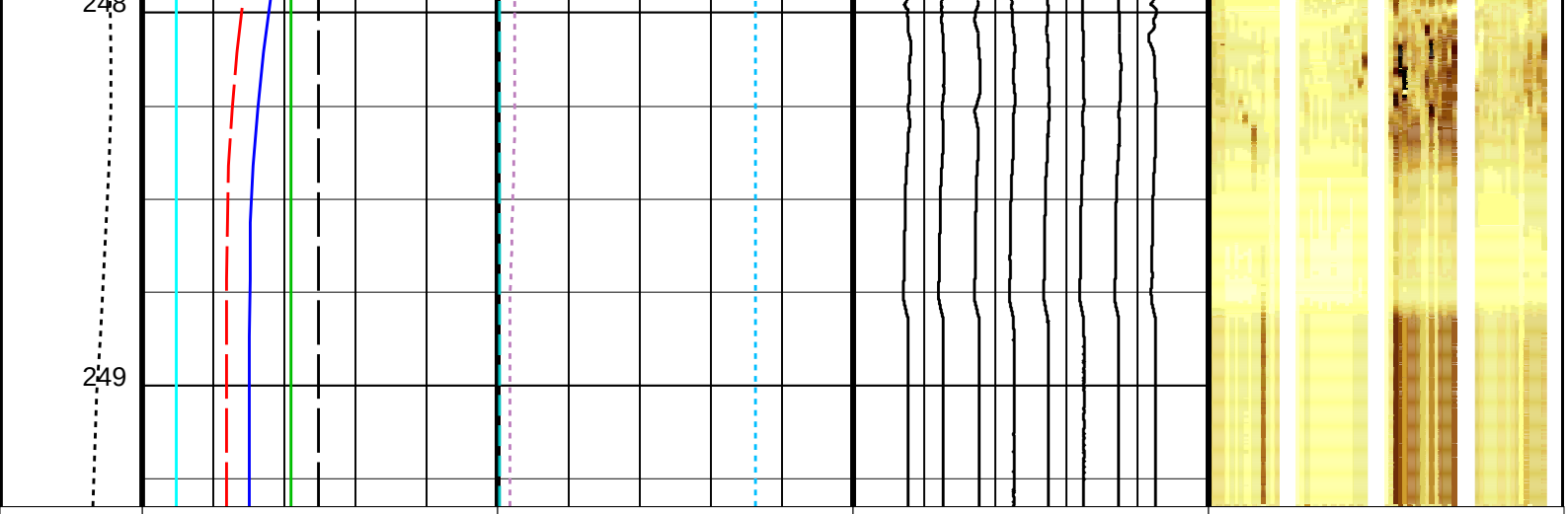

Tension (TENS) (LBF) 0 5000	Bit Size (BS) 0 (IN) 20	EMEX Voltage (EV) 0 (V) 50	Data Button 1 − Varies with RBS (U−MEST_RB1) −10 (−−−−) 90	MEST_PADA (U−MEST_RESISTIVITY_PADA_DS) (−−−−)
	Caliper 1 (C1) 0 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	Data Button 2 − Varies with RBS (U−MEST_RB2) −20 (−−−−) 80	MEST_PADB (U−MEST_RESISTIVITY_PADB_DS) (−−−−)
	Caliper 2 (C2) 0 (IN) 20		Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70	MEST_PADC (U−MEST_RESISTIVITY_PADC_DS) (−−−−)
	Deviation (DEVIM) 0 (DEG) 10		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60	MEST_PADD (U−MEST_RESISTIVITY_PADD_DS) (−−−−)
	Gamma Ray (GR_EDTC) 0 (GAPI) 100		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50	
	Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40	
	Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 7 − Varies with RBS (U−MEST_RB7) −70 (−−−−) 30	
	Relative Bearing (RB_MEST) −40 (DEG) 360		Data Button 8 − Varies with RBS (U−MEST_RB8) −80 (−−−−) 20	

3.2844 4.1540 4.5888 4.9149 5.2410 5.3498 5.5672 5.6758 5.7846 5.8933 6.0020 6.1107 6.2194 6.3281 6.5455 6.9803

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MEST−B: Micro Electrical Scanner − B (Slim)		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	16.0121	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	

XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−1795.2	M
PP	Playback Processing	NORMAL	

Format: MEST_C_WRAP_BY_P1AZ **Vertical Scale: 1:20** **Graphics File Created: 24−Aug−2013 13:33**

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	EDTC−B	SKK−5169−EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_029LUP	FN:33	PRODUCER	23−Aug−2013 17:24	2044.6 M	1754.7 M

Output DLIS Files

DEFAULT	FMS_DSI_055PUP	FN:69	PRODUCER	24−Aug−2013 13:33
CLIENT	FMS_DSI_055PUC	FN:70	CUSTOMER	24−Aug−2013 13:33

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Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration							
Before: 23−Aug−2013 9:25							
EDTC Z−Axis Acceleration	9.810	N/A	9.753	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration							
Before: 23−Aug−2013 9:29							
Gamma Ray (Jig − Bkg)	184.4	N/A	184.4	N/A	N/A	16.77	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Litho−Density Spectroscopy Cartridge − B / Equipment Identification

Primary Equipment:		
LDSC Cartridge	LDSC − B	326
Auxiliary Equipment:		
LDSC Housing	LDSH − A	303

Hostile Natural Gamma Ray Cartridge − B / Equipment Identification

Primary Equipment:		
HNGC Cartridge	HNGC − B	300
Auxiliary Equipment:		
HNGC Housing	HNGH − A	115

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:		
EDTC Gamma Ray Detector	EDTG − A/B	8305
Enhanced DTS Cartridge	EDTC − B	8317
Auxiliary Equipment:		
EDTC Housing	EDTH − B	8303

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z−Axis Acceleration M/S2	Value
Before		9.753

9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)

Before: 23−Aug−2013 9:25

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		10.48	Before		184.4	Before		165.0

0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)

167.7 (Minimum) 184.4 (Nominal) 201.2 (Maximum)

150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)

Before: 23−Aug−2013 9:29

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 346, Site U1423C**
Field: **Asian Monsoon**
Rig: **JOIDES Resolution**
Country: **USA**

FMS Microresistivity