

DISCLAIMER

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OTHER SERVICES1

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

REMARKS: RUN NUMBER 1

Hole drilled and cored using APC/XCB coring system.

LFV Actuator (Go-Devil) run attached to bottom of MSS for LFV locking open / closed.

Logs recorded from drill floor (1082.9m above permanent datum) then shifted to zero at sea floor.

Hole drilled with sea water and then displaced with weighted water-based mud having a density of 1.259 g/cc (10.5ppg).

Barite corrections applied to nuclear logs.

Caliper closed at 96mbsf to facilitate pipe entry; AHC not used due to very low heave.

Toolstring centered using two MCD bowspring devices and FMS Caliper.



FMS data on first pass invalid from 113.8m to 111.3m due to EMEX power disruption.

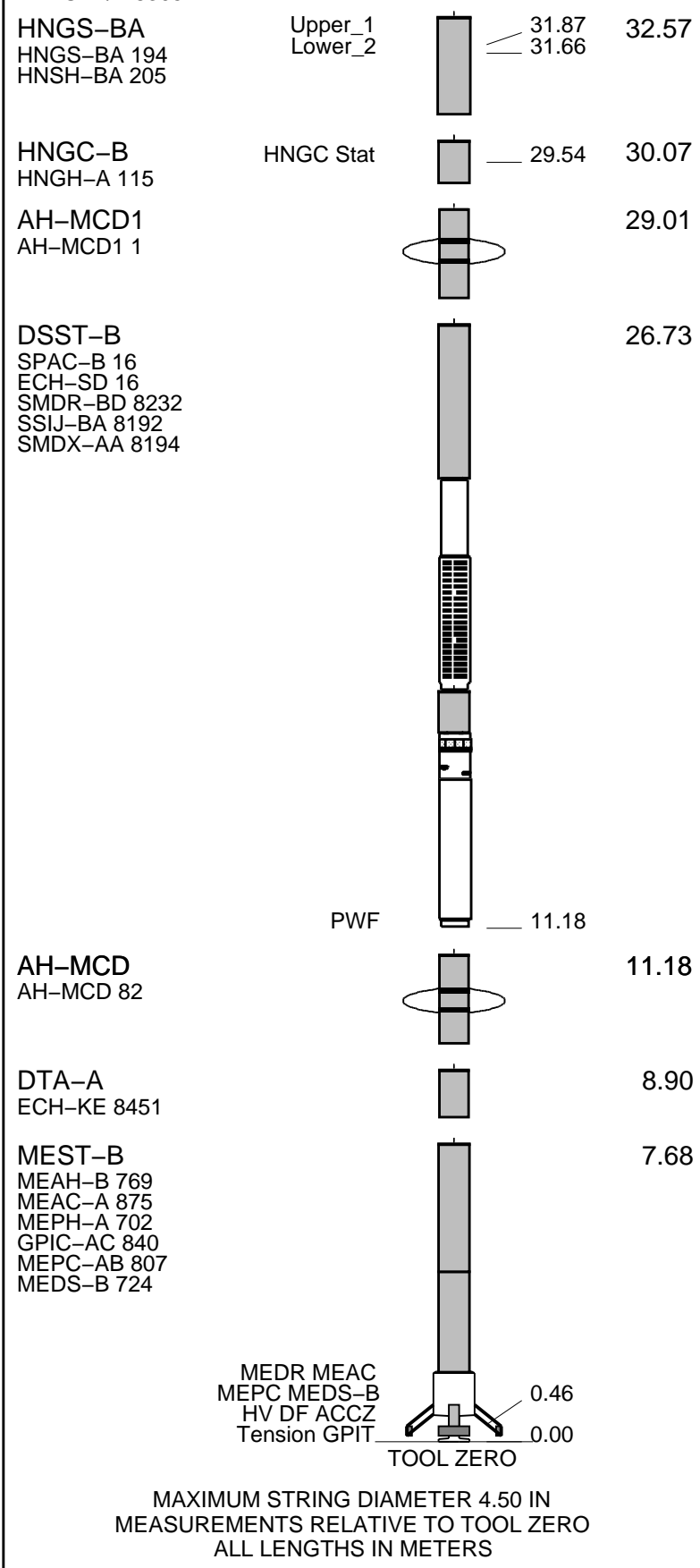
FMS measurement (EMEX) power switched off at 84m for end of first pass and at 98m for pipe entry on second pass.

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	
GSR-U 616008 WITM (EDTS)-A	

RUN 1	RUN 2
DOWNHOLE EQUIPMENT	
LEH-MT 101 LEH-MT 101 101 EDTC-B EDTH-B 8303 EDTC-B 8317 EDTG-A/B 8305	MDSB_EDTC Mud Tempe CTEM Gamma Ray EFTB DIAG TelStatus EDTCB Ele
	34.55 33.49 32.92
	35.51 34.55 32.57



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

Kelly Bushing Elevation

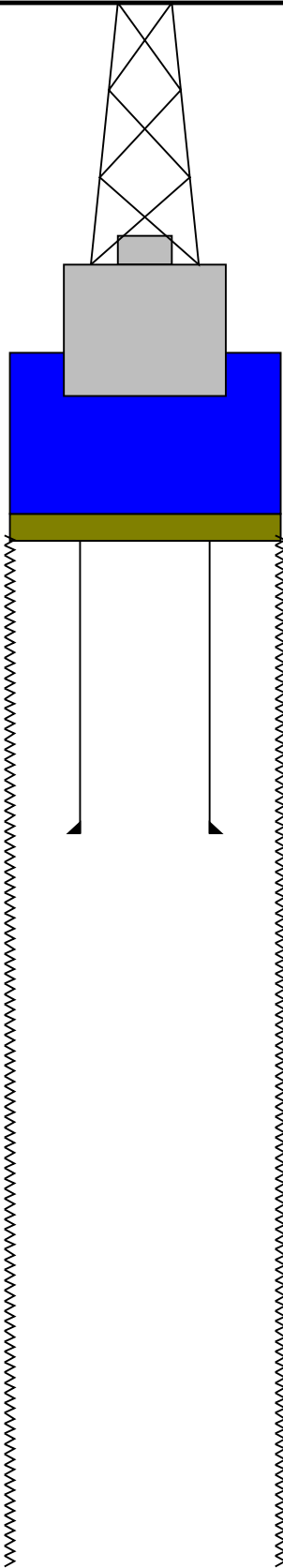
Derrick Floor Elevation

Mean Sea Level

0.0

0.0

11.0



1082.9

11.438

4.000

Sea Bed

1162.4

5.500

4.000

Bit

1357.9

11.438

TD - Driller

Schlumberger

First Pass

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 346, Site U1430B

Input DLIS Files

DEFAULT	FMS_DSI_NGS_021LUP	FN:20	PRODUCER	20-Sep-2013 03:35	1353.3 M	1125.2 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_047PUP	FN:54	PRODUCER	21-Sep-2013 13:03	272.0 M	43.9 M
CLIENT	FMS_DSI_NGS_047PUC	FN:55	CUSTOMER	21-Sep-2013 13:03	272.0 M	43.9 M

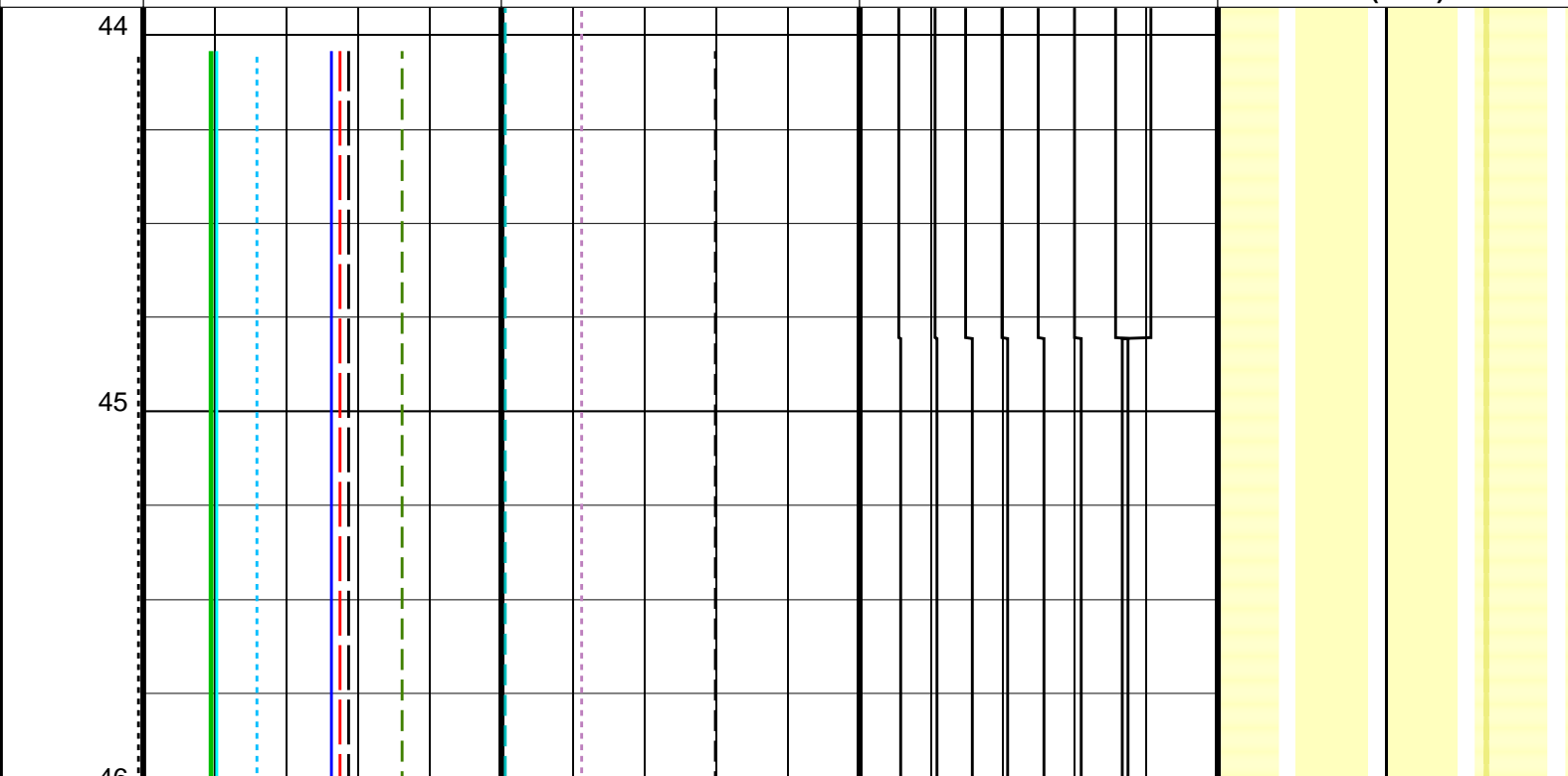
OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S

<p>HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100</p>	<p>Data Button 8 – Varies with RBS (U-MEST_RB8) -80 (----) 20</p>	
<p>Relative Bearing (RB_MEST) (DEG) -40 360</p>	<p>Data Button 7 – Varies with RBS (U-MEST_RB7) -70 (----) 30</p>	
<p>Pad One Azimuth (P1AZ_MEST) (DEG) -40 360</p>	<p>Data Button 6 – Varies with RBS (U-MEST_RB6) -60 (----) 40</p>	
<p>Hole Azimuth (HAZIM) (DEG) -40 360</p>	<p>Data Button 5 – Varies with RBS (U-MEST_RB5) -50 (----) 50</p>	
<p>Deviation (DEVIM) (DEG) 0 10</p>	<p>Data Button 4 – Varies with RBS (U-MEST_RB4) -40 (----) 60</p>	<p>3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203 MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)</p>
<p>Caliper 2 (C2) (IN) 0 20</p>	<p>Data Button 3 – Varies with RBS (U-MEST_RB3) -30 (----) 70</p>	<p>3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203 MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)</p>
<p>Caliper 1 (C1) (IN) 0 20 EMEX Intensity (EI) (AMPS) 0 10</p>	<p>Data Button 2 – Varies with RBS (U-MEST_RB2) -20 (----) 80</p>	<p>3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203 MEST_PADB (U-MEST_RESISTIVITY_PADB_DS) (----)</p>
<p>Tension (TENS) (LBF) 0 5000 Bit Size (BS) (IN) 0 20 EMEX Voltage (EV) (V) 0 50</p>	<p>Data Button 1 – Varies with RBS (U-MEST_RB1) -10 (----) 90</p>	<p>3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203 MEST_PADA (U-MEST_RESISTIVITY_PADA_DS) (----)</p>



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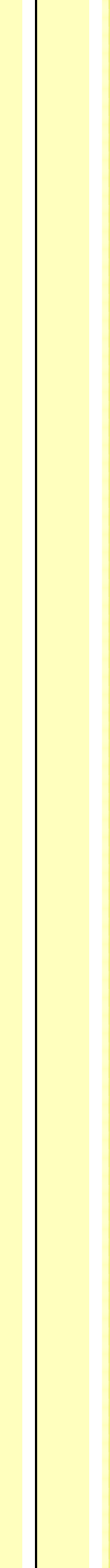
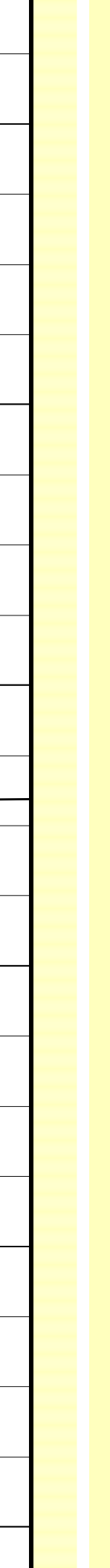
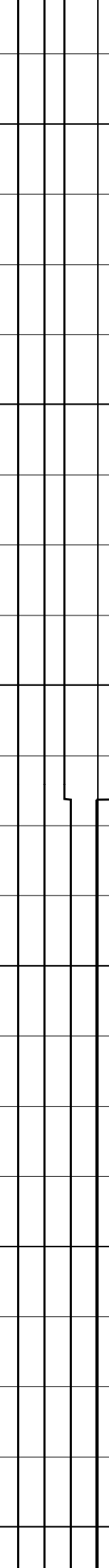
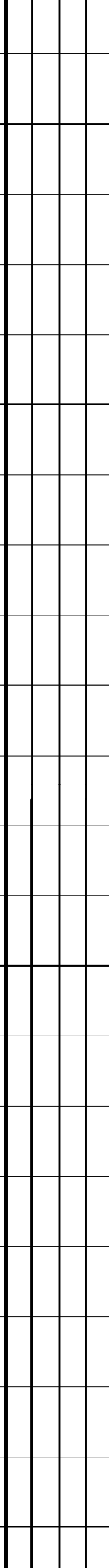
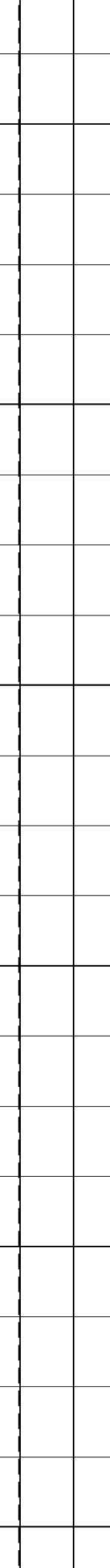
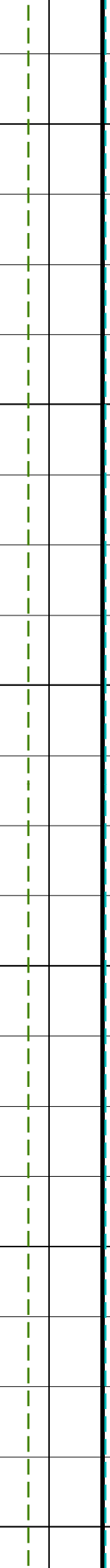
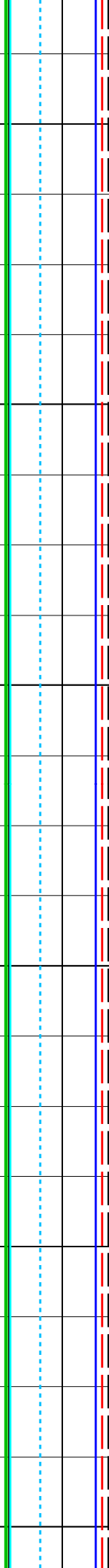
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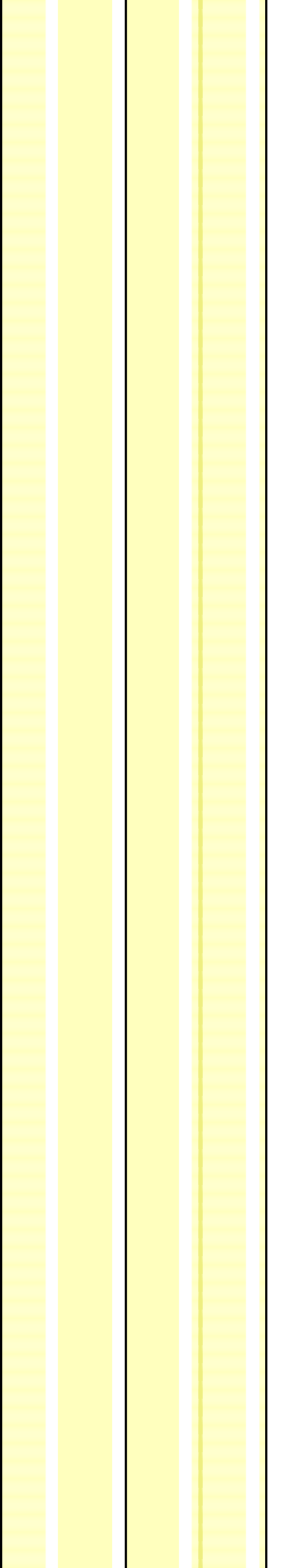
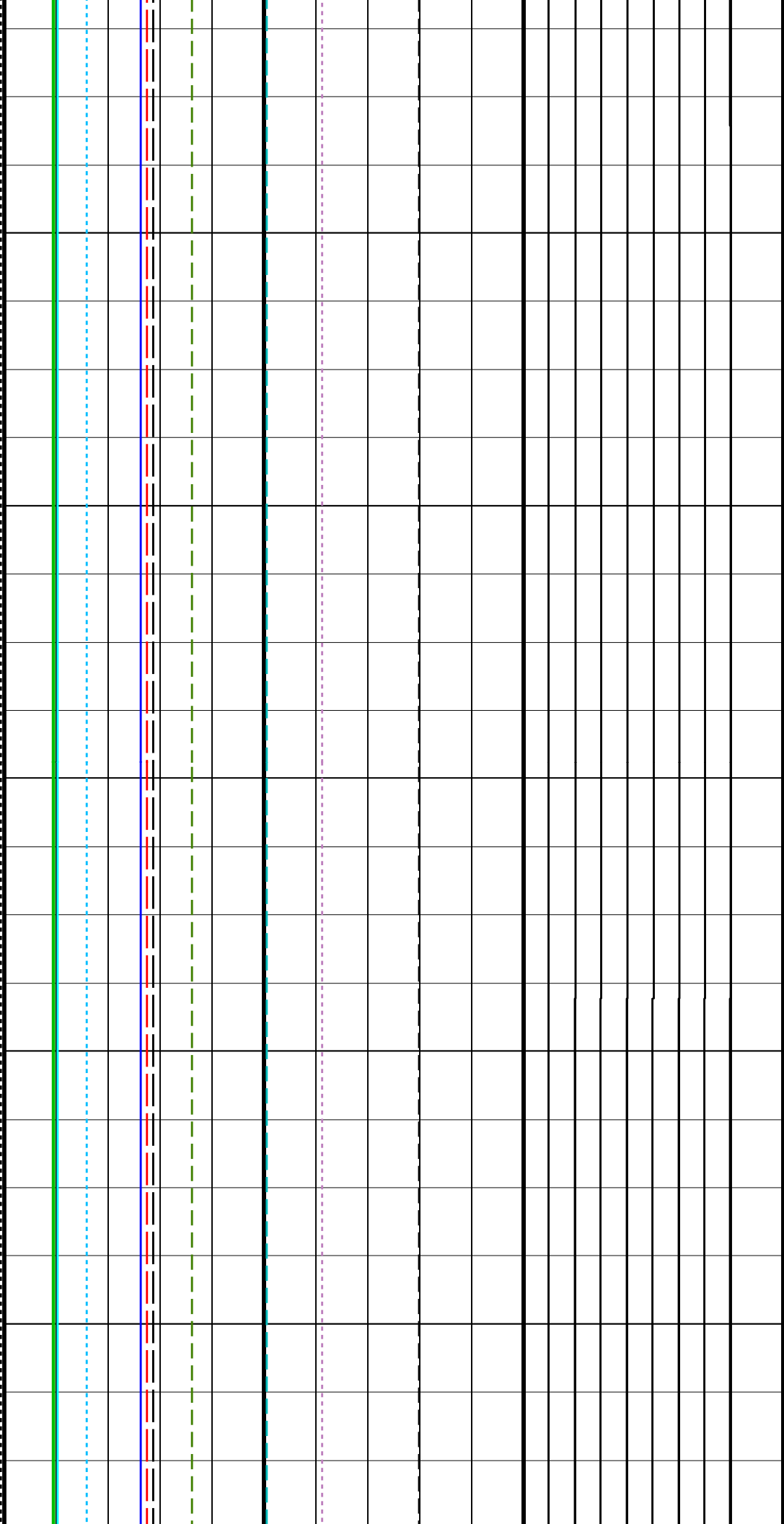
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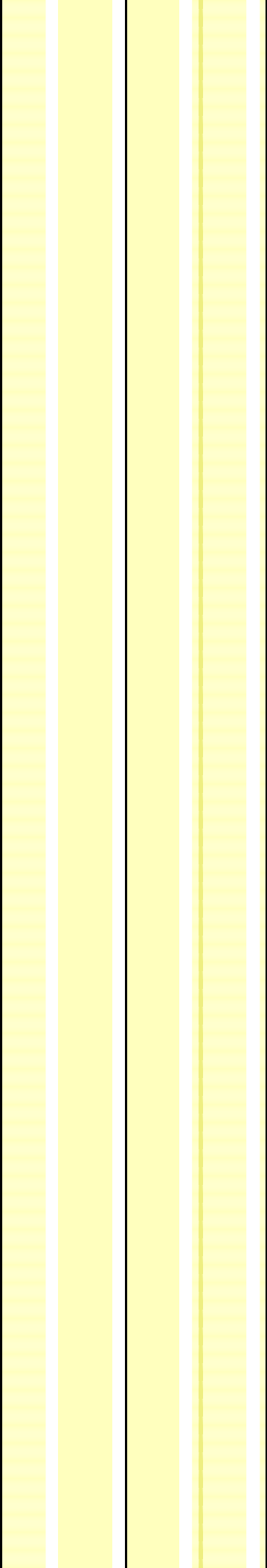
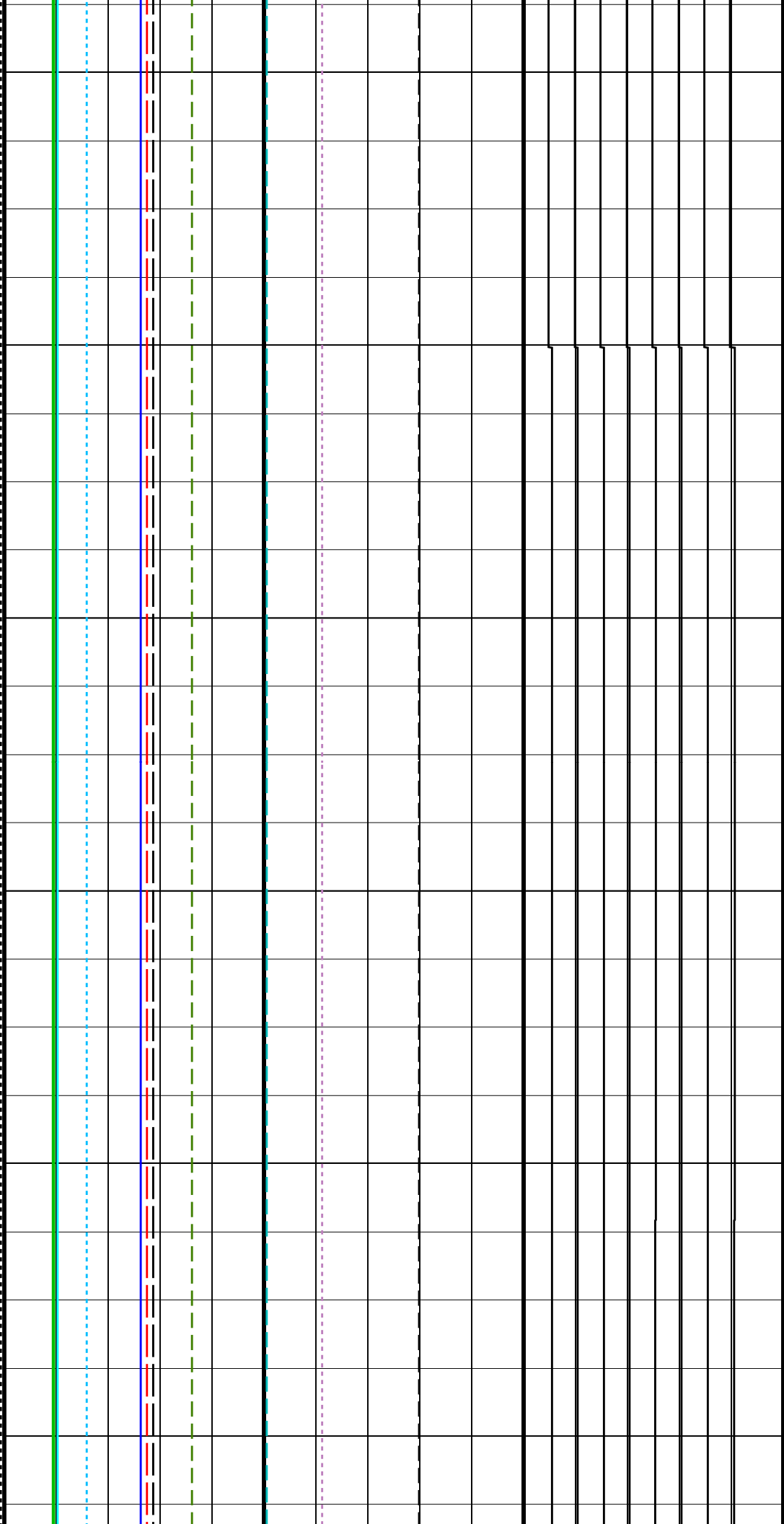
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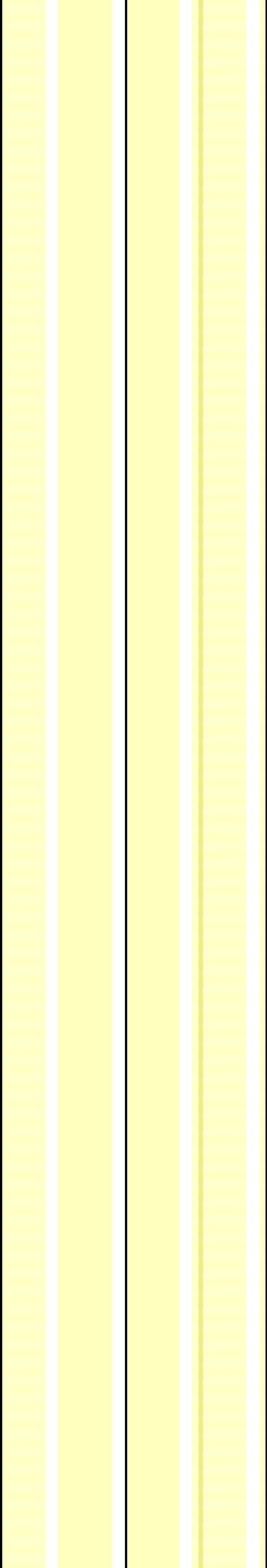
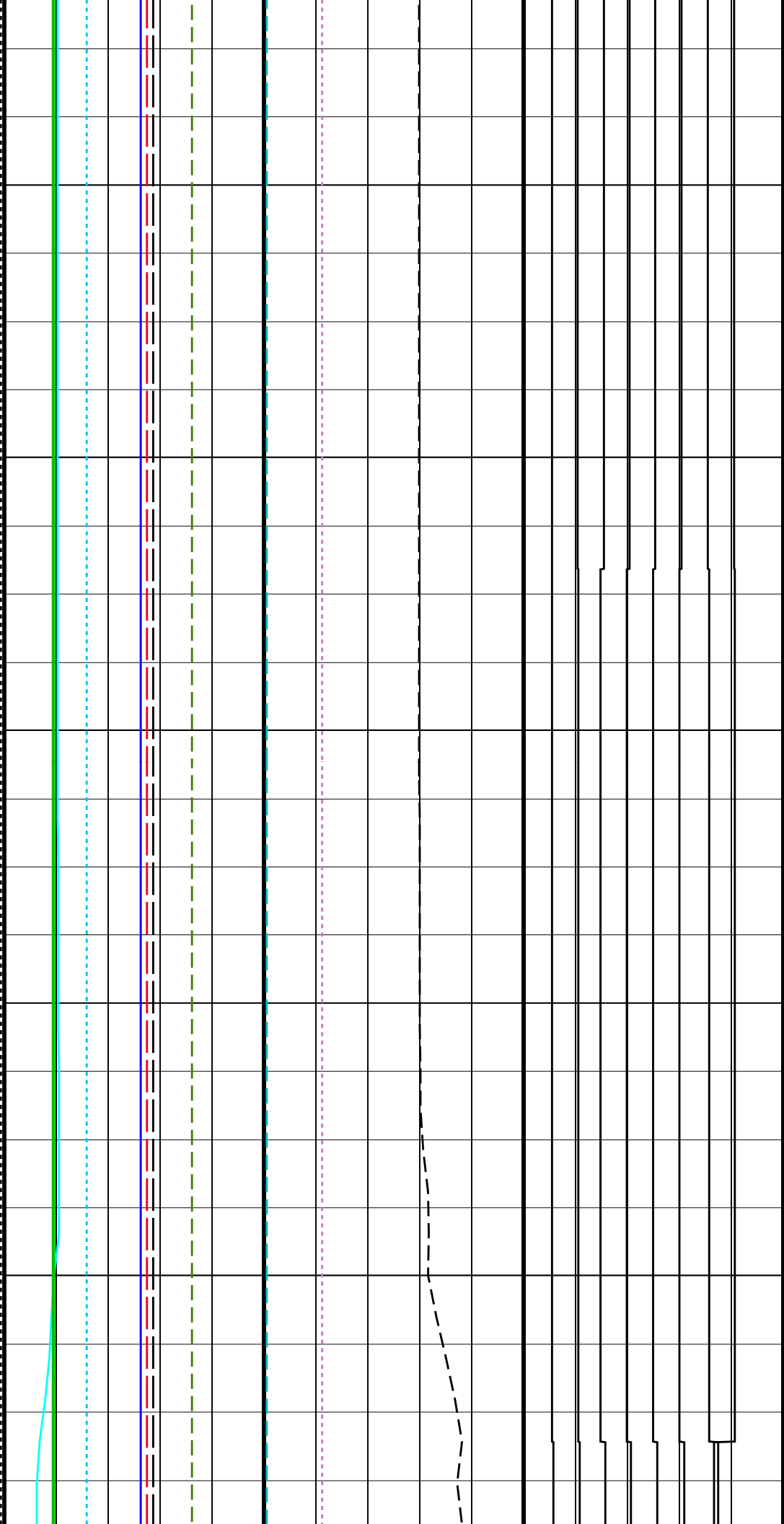
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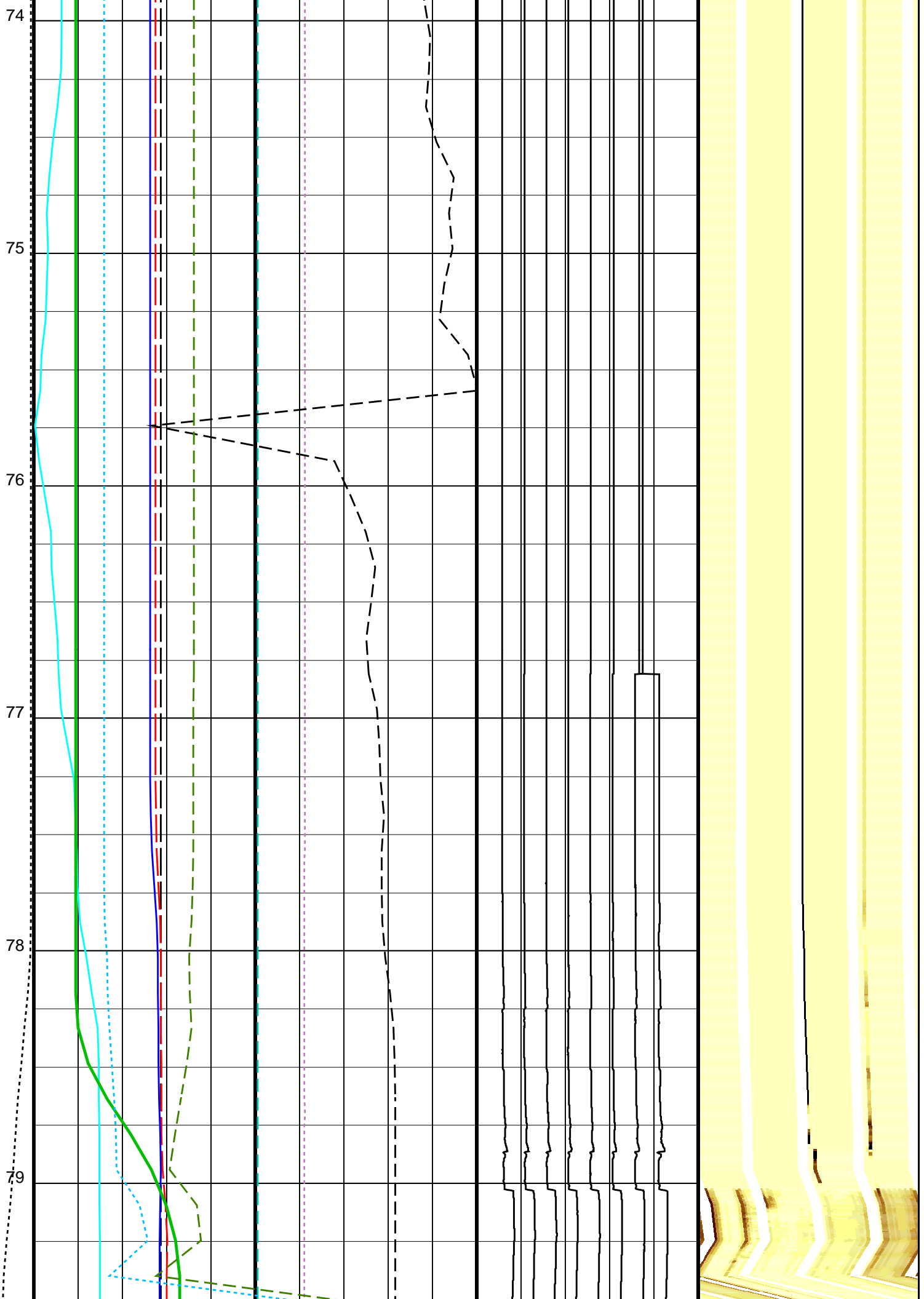
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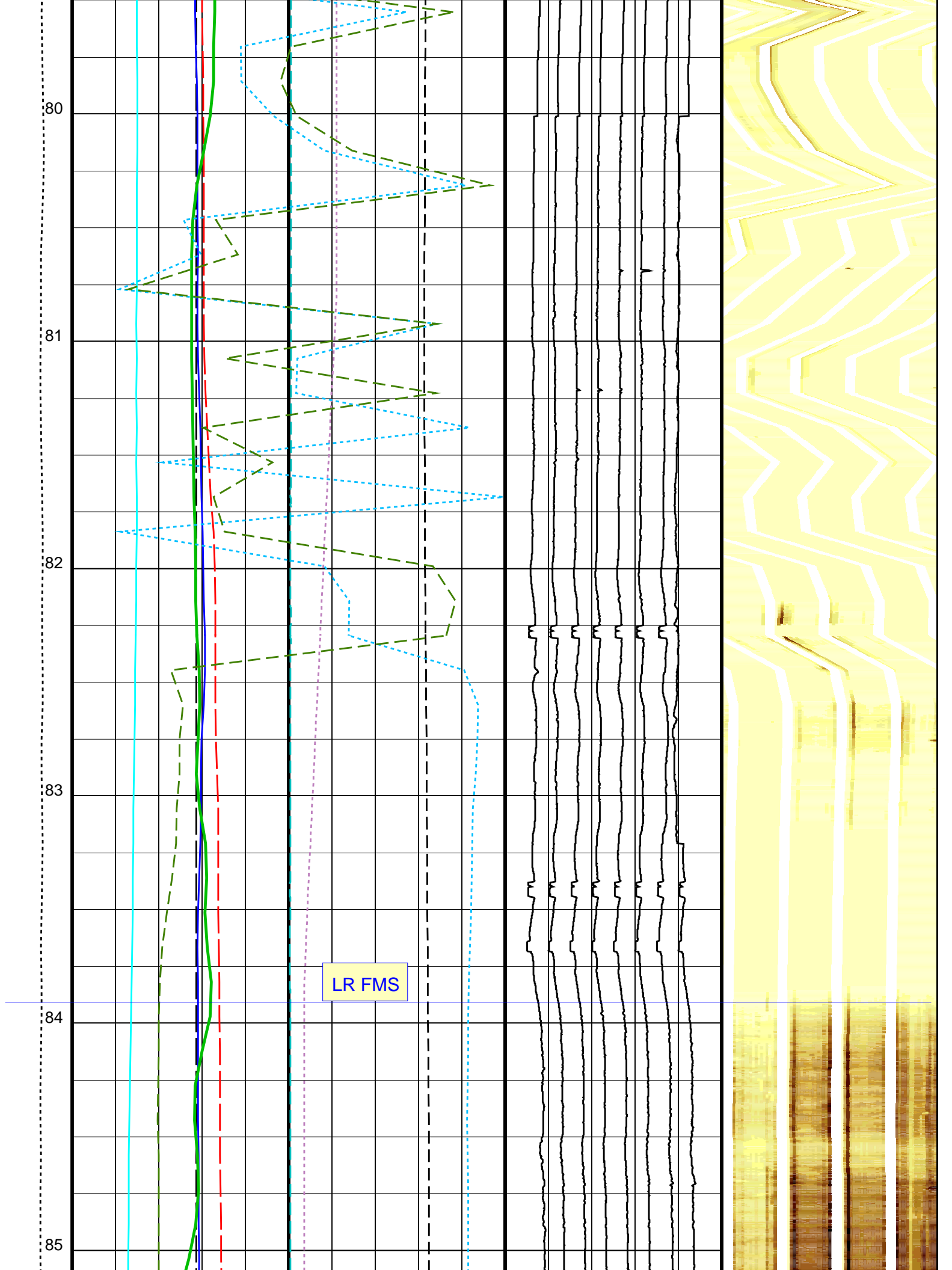
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LR FMS



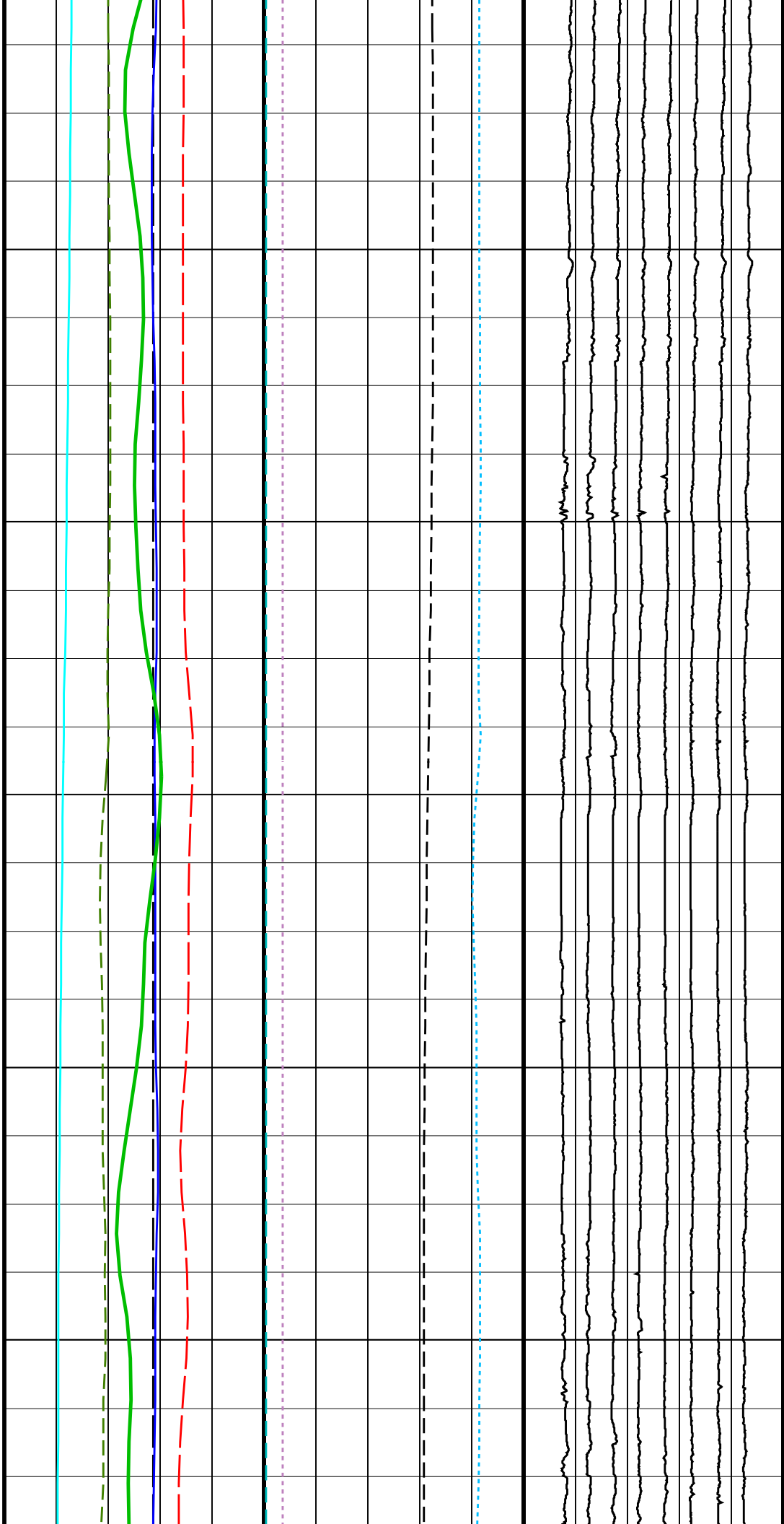
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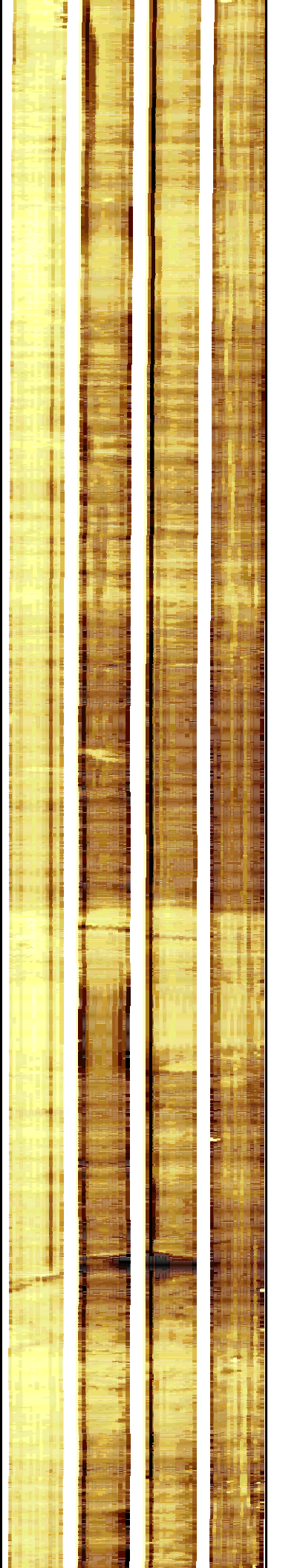
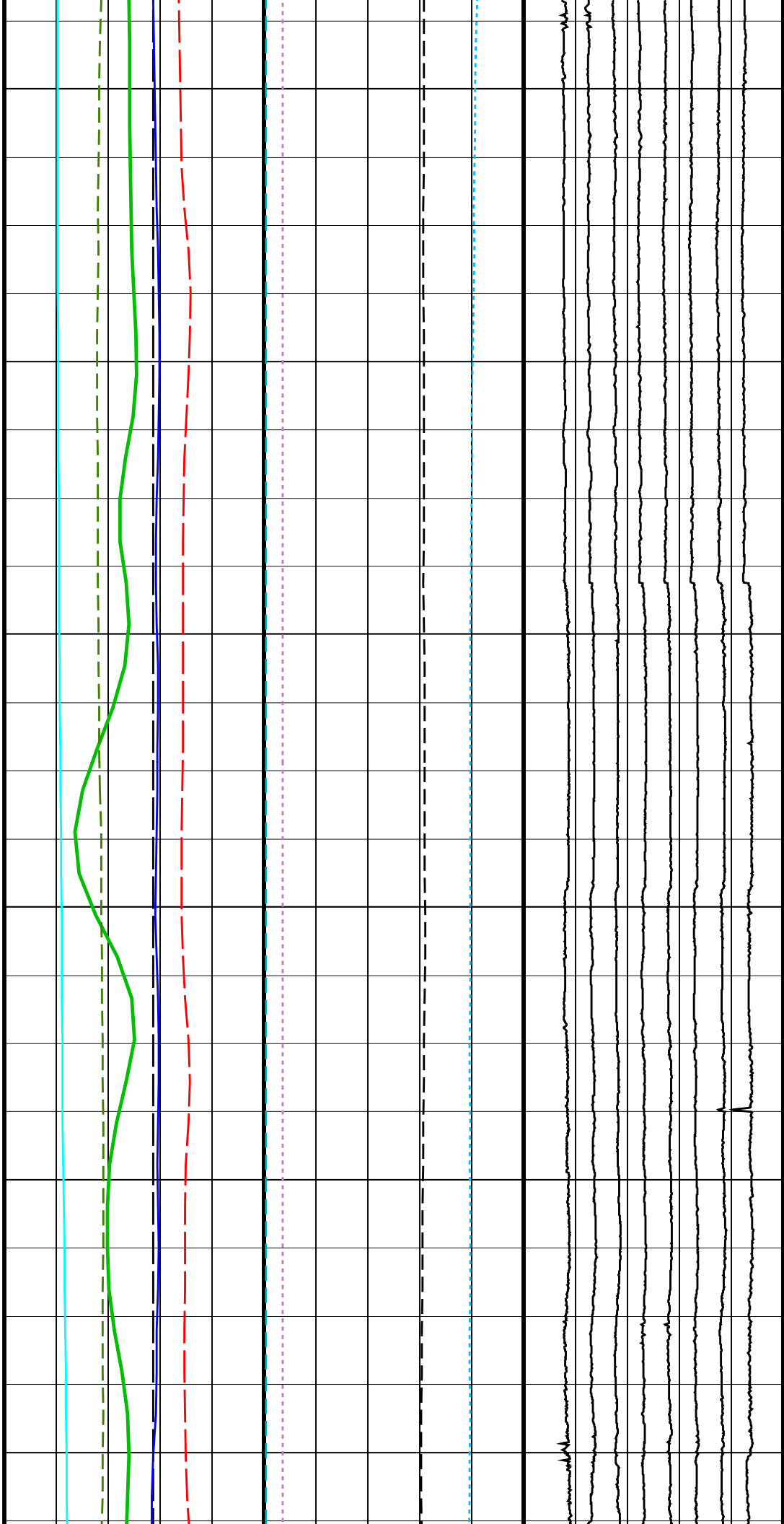
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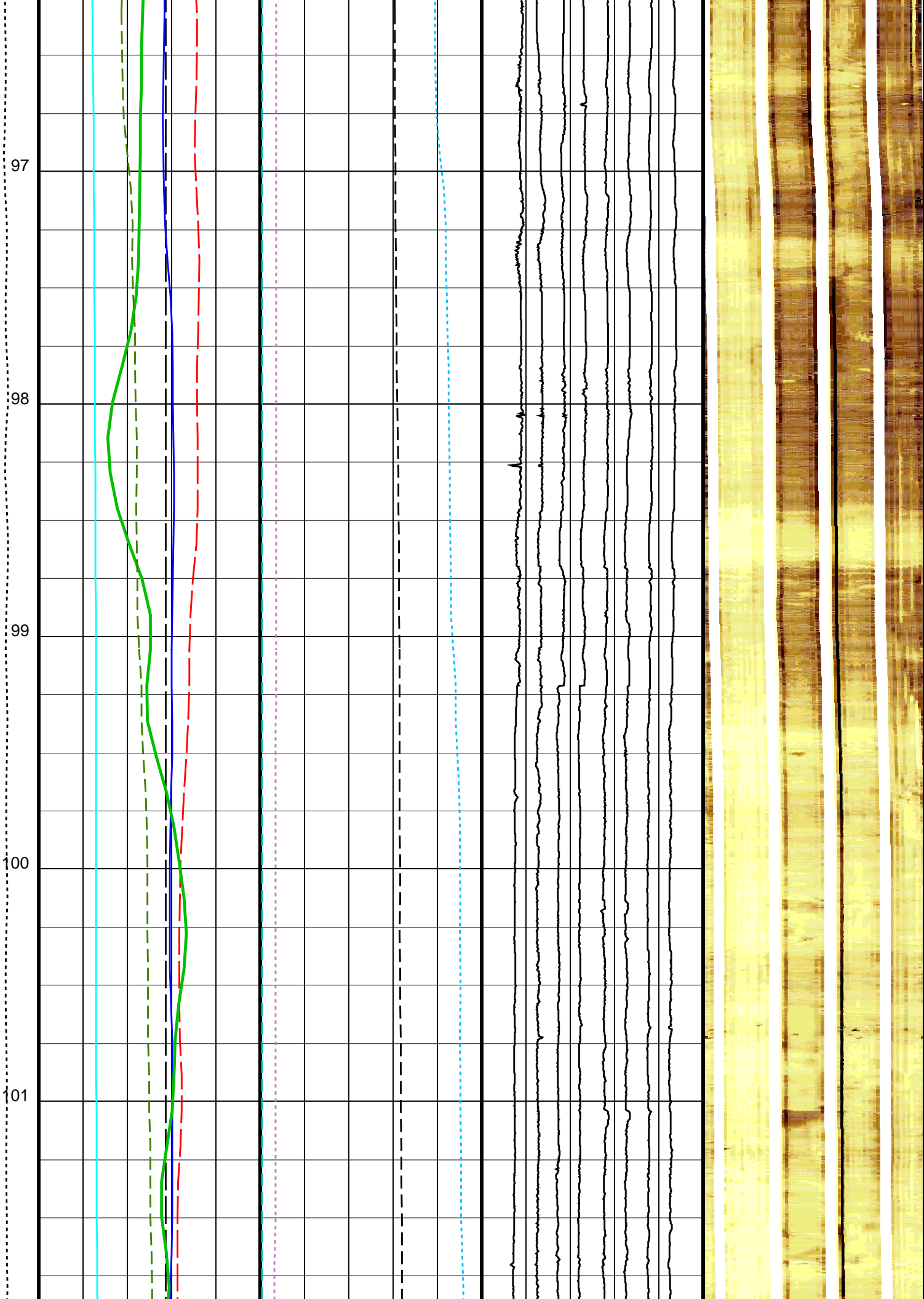
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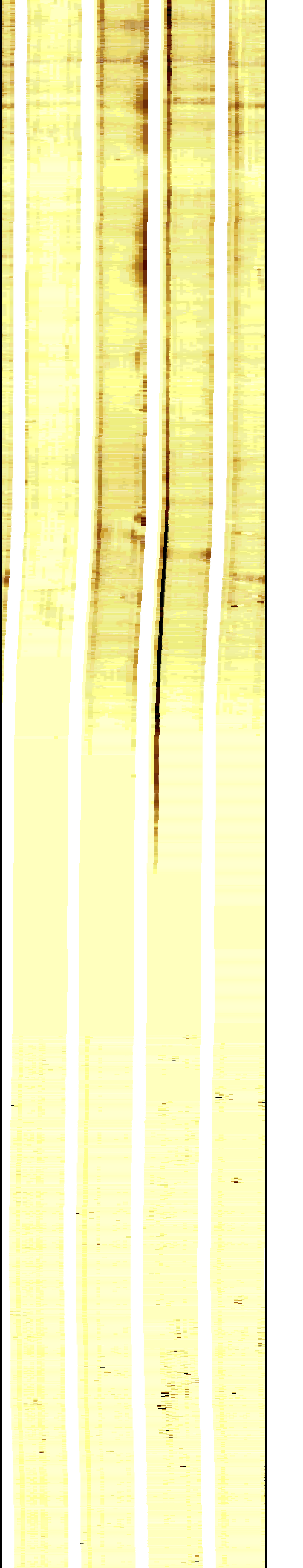
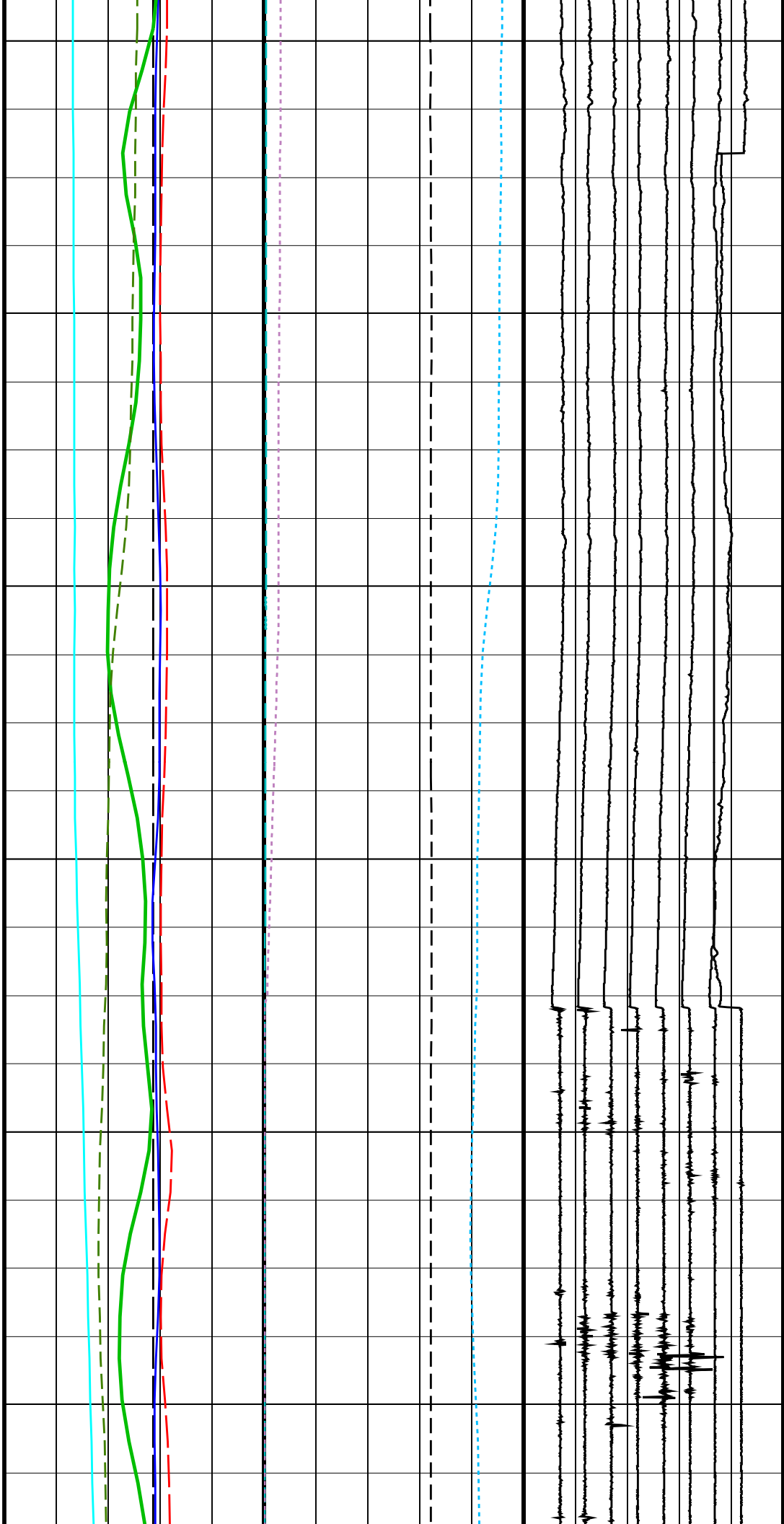


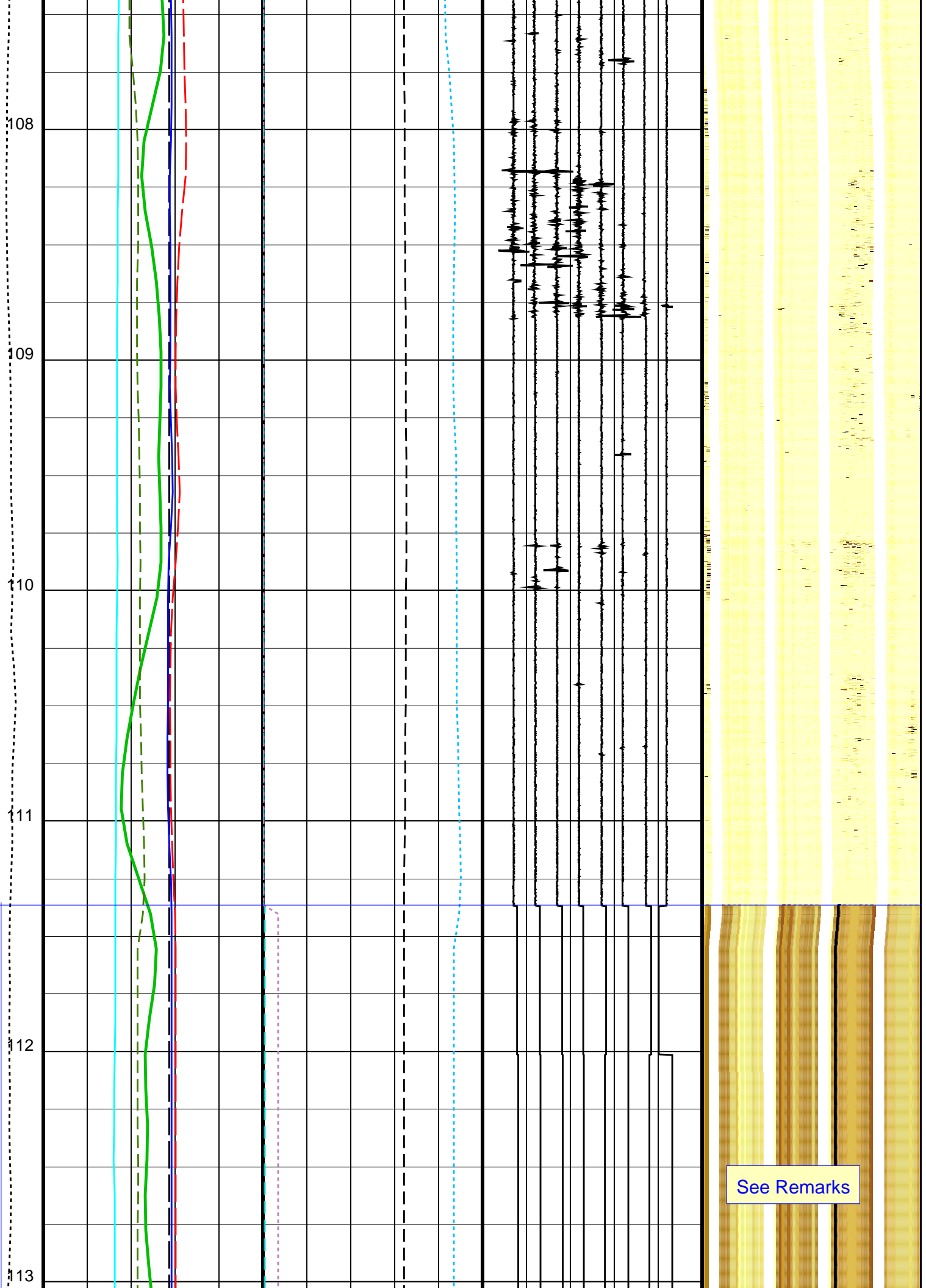
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See Remarks

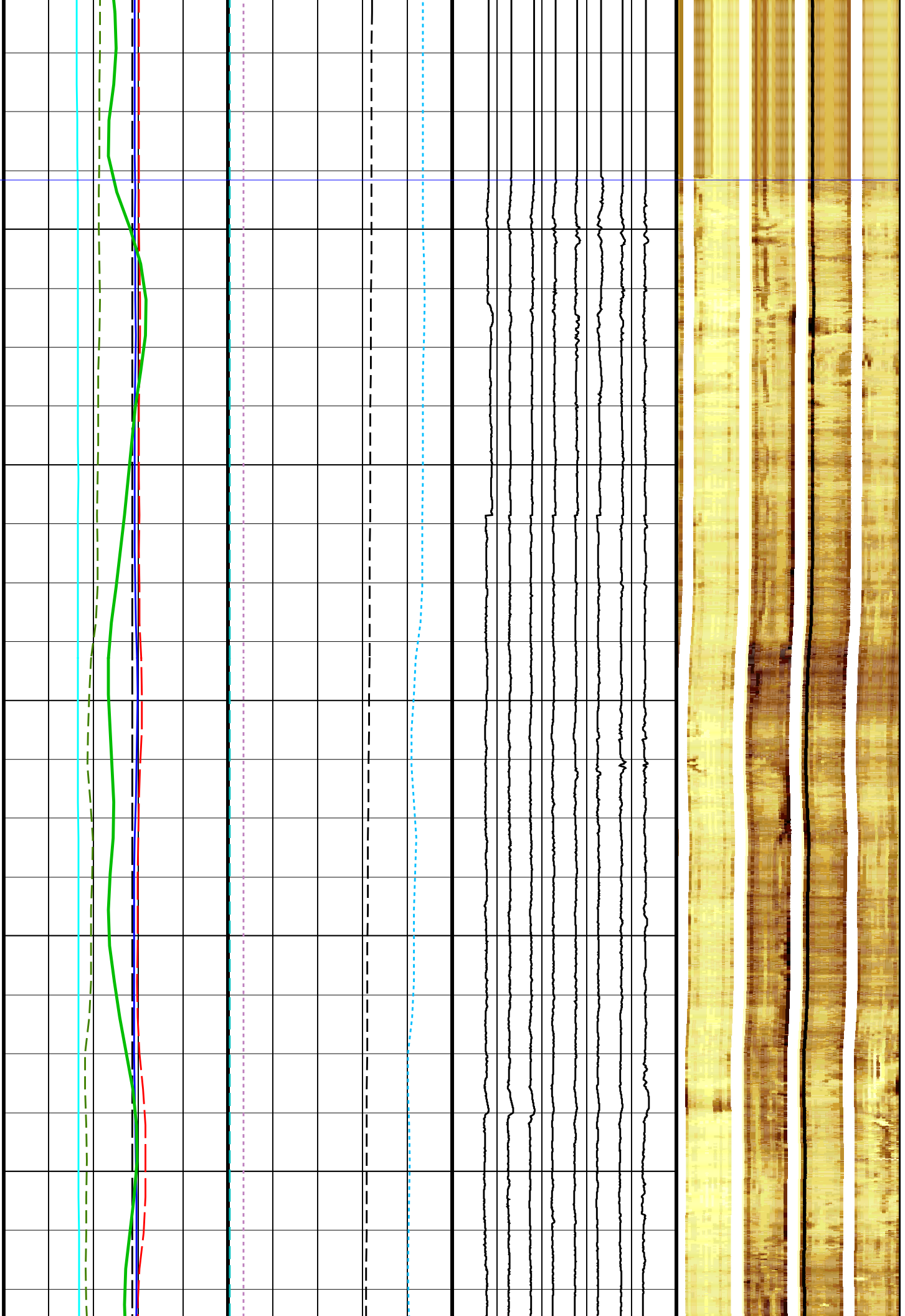
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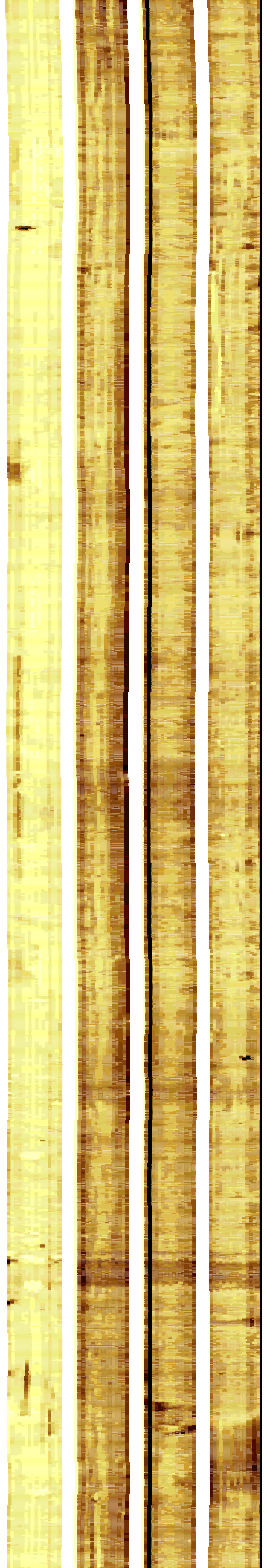
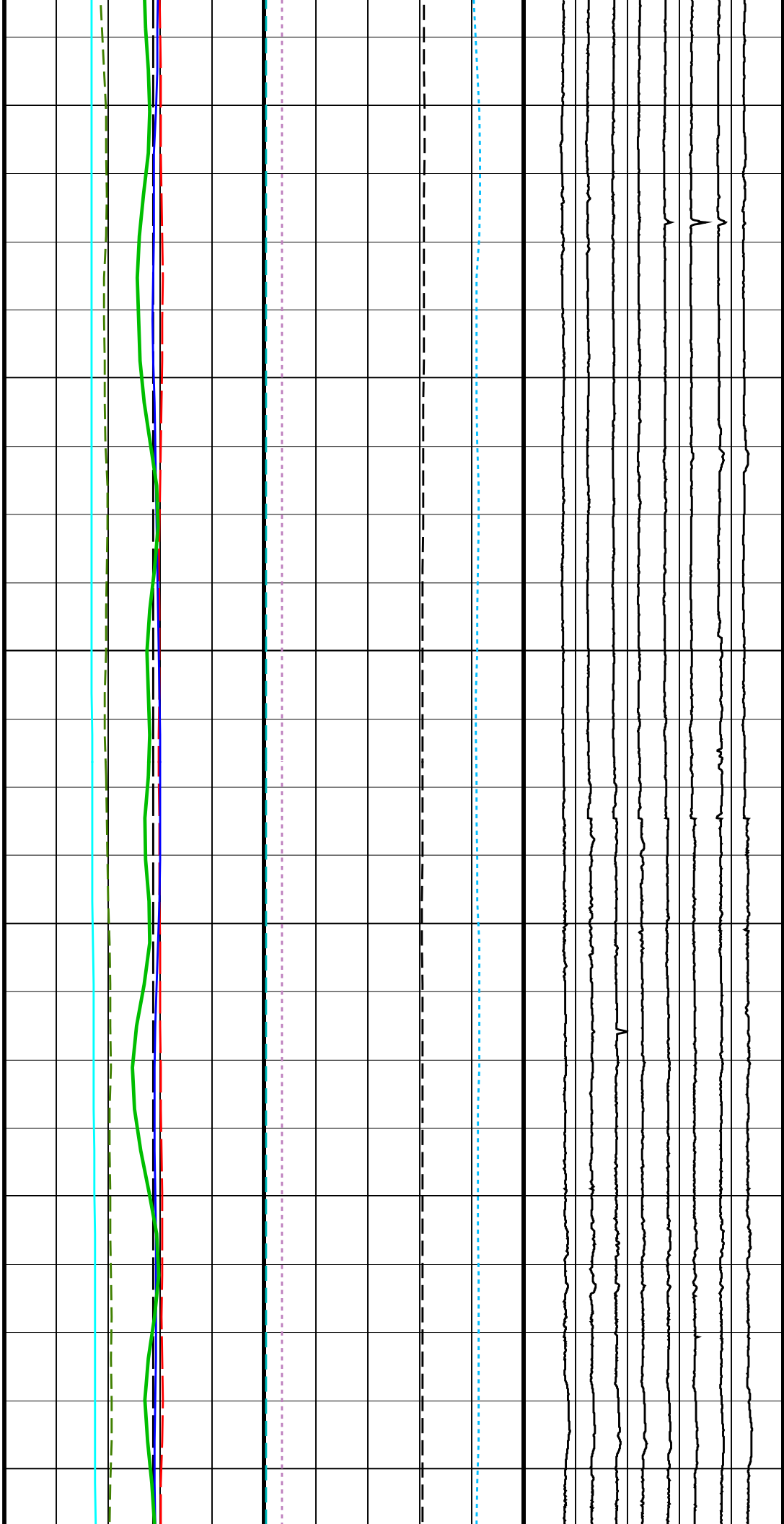
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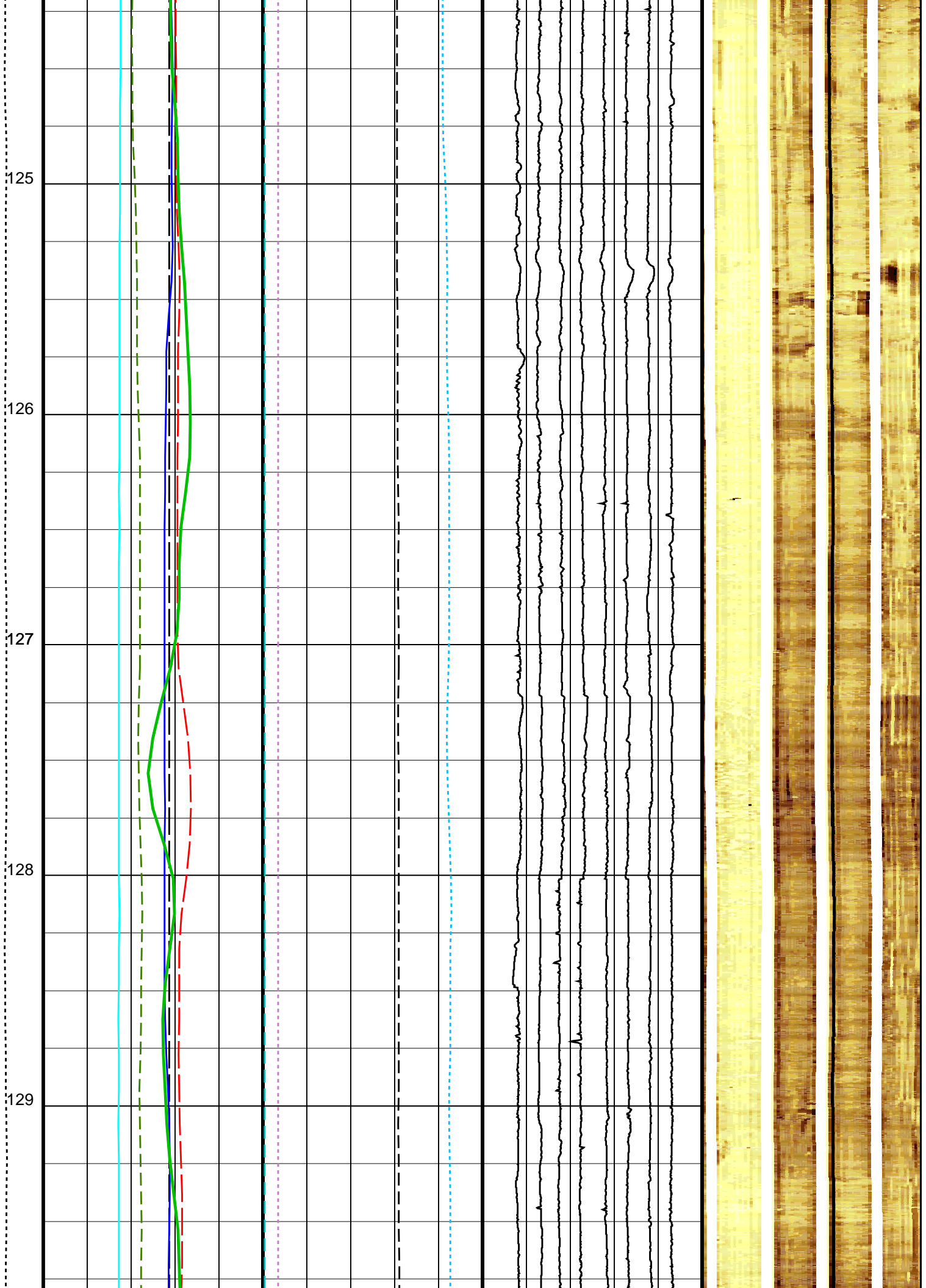
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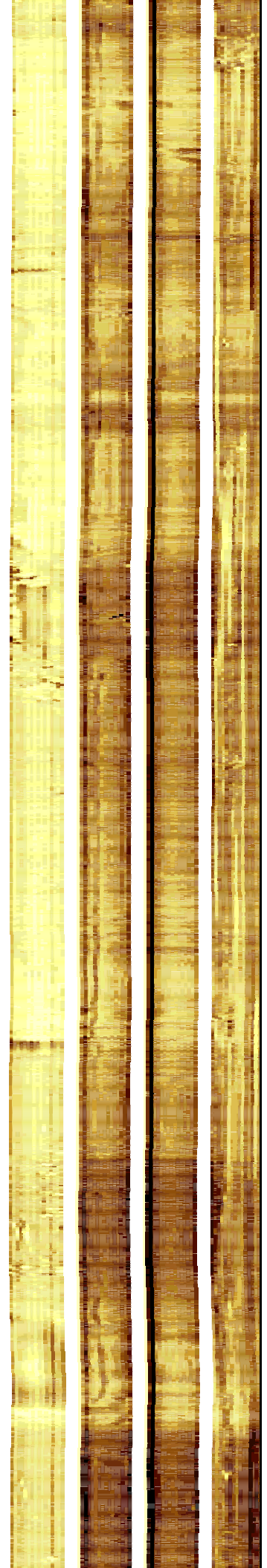
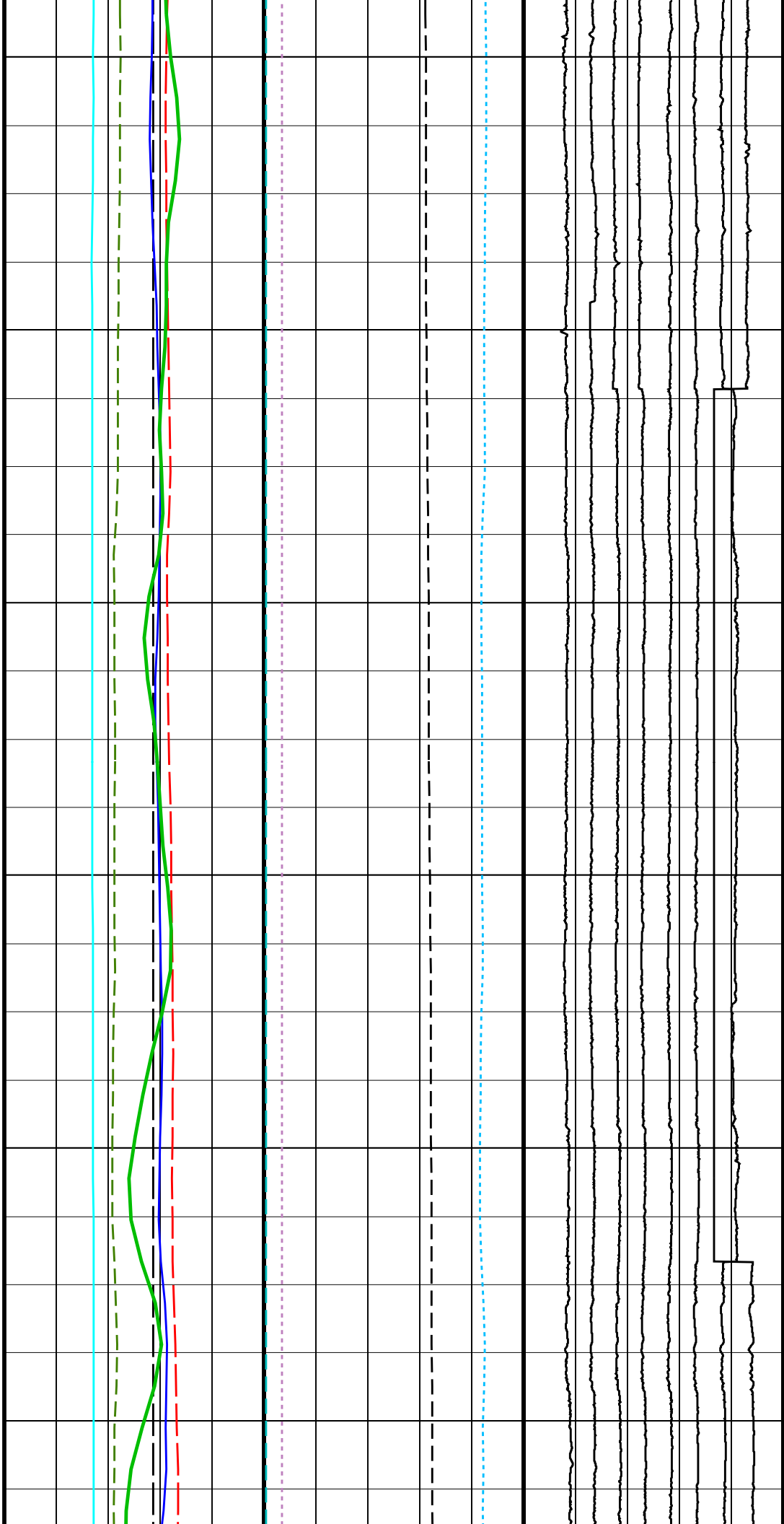


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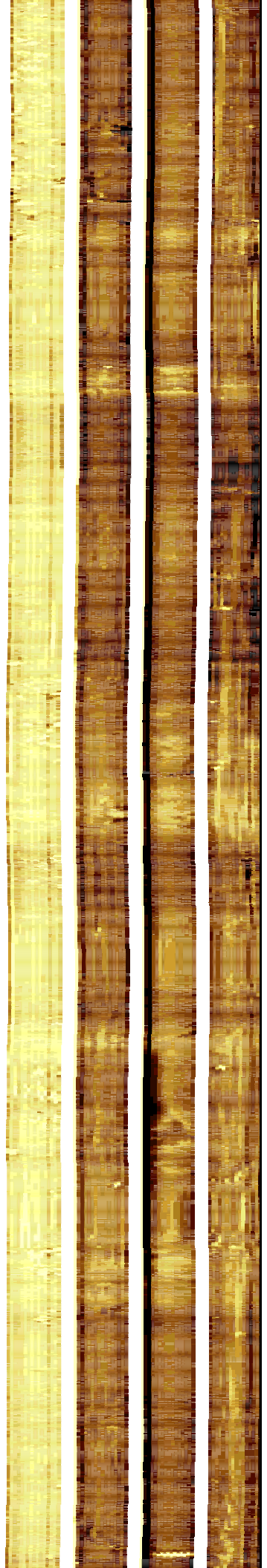
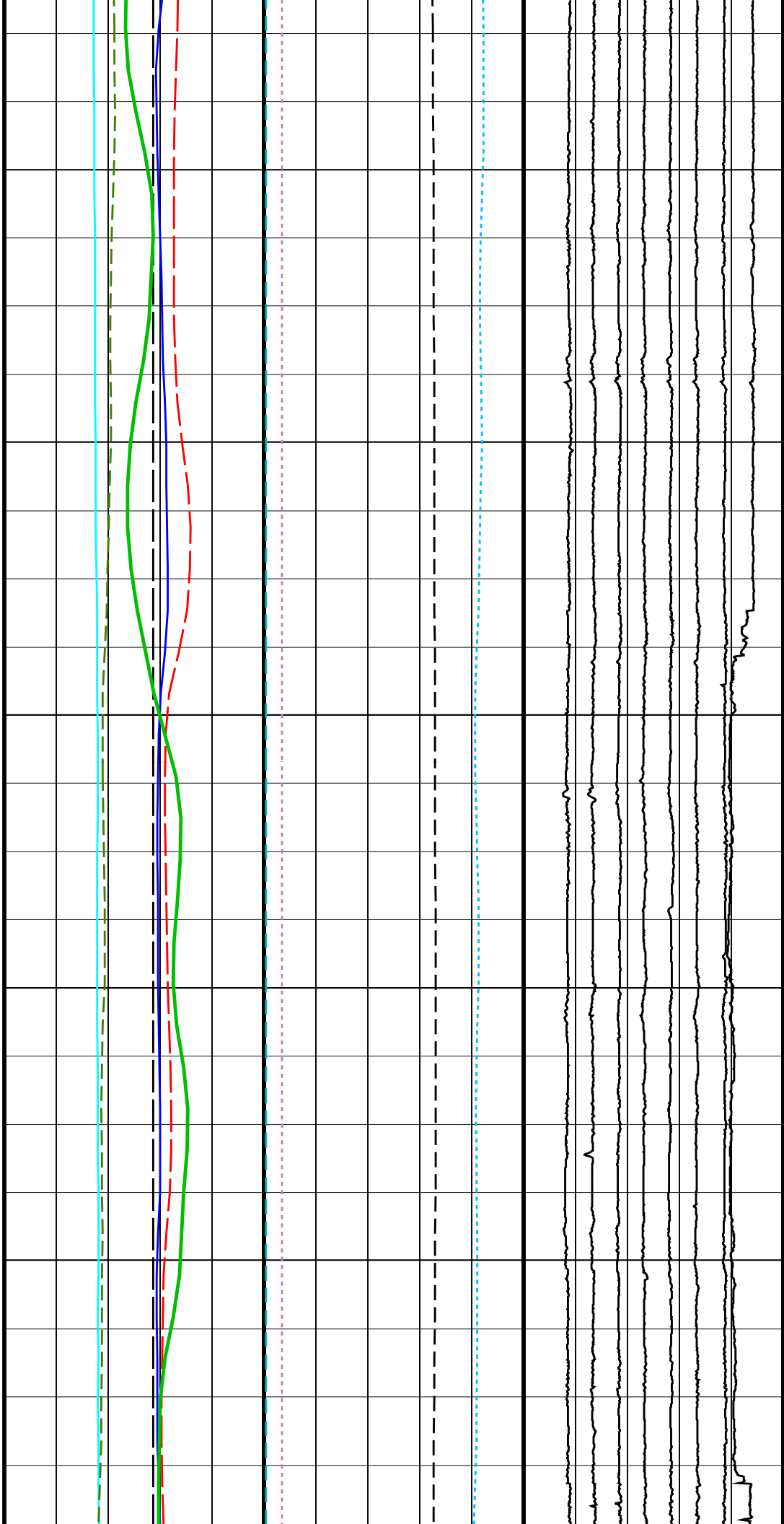
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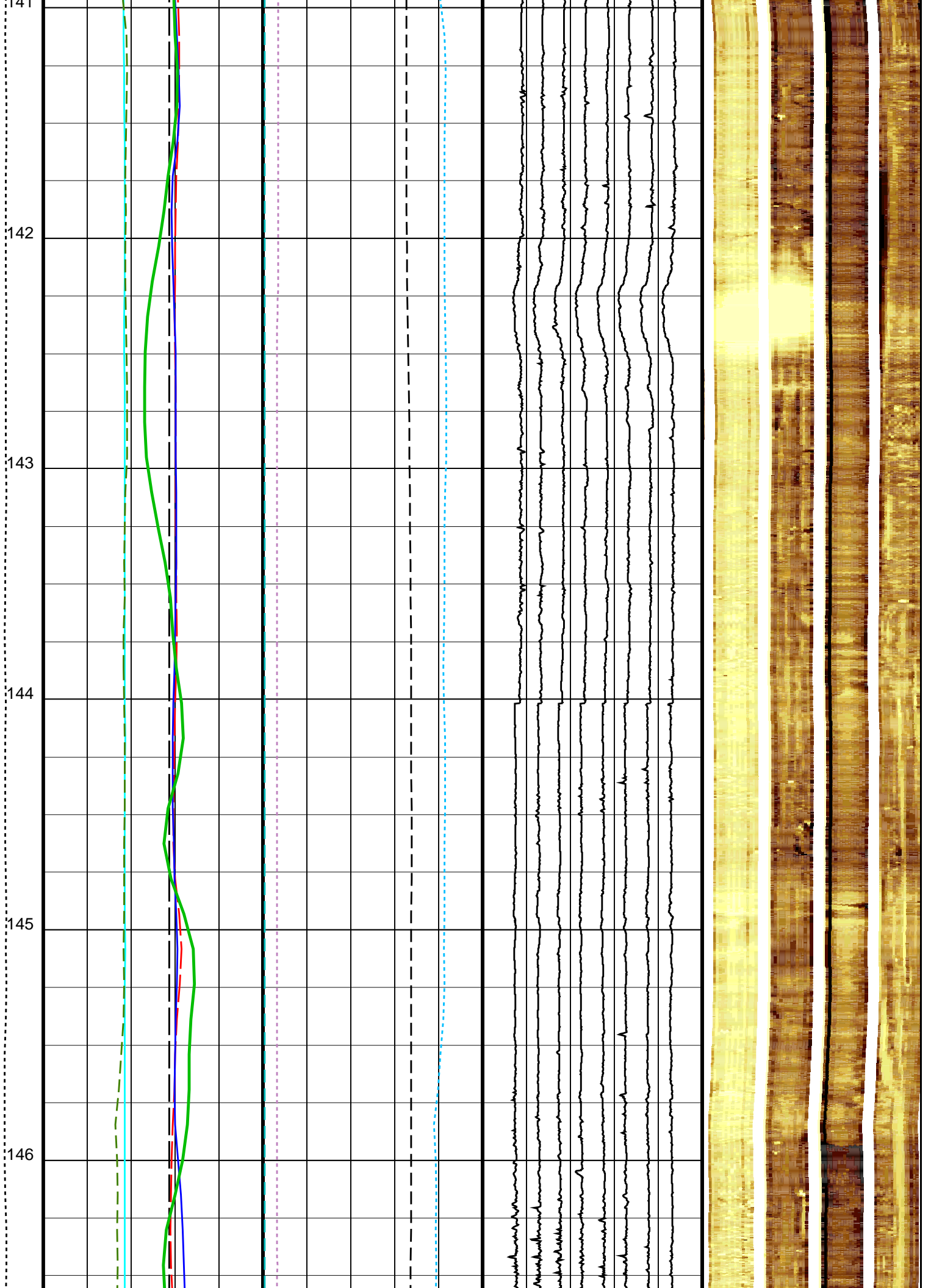
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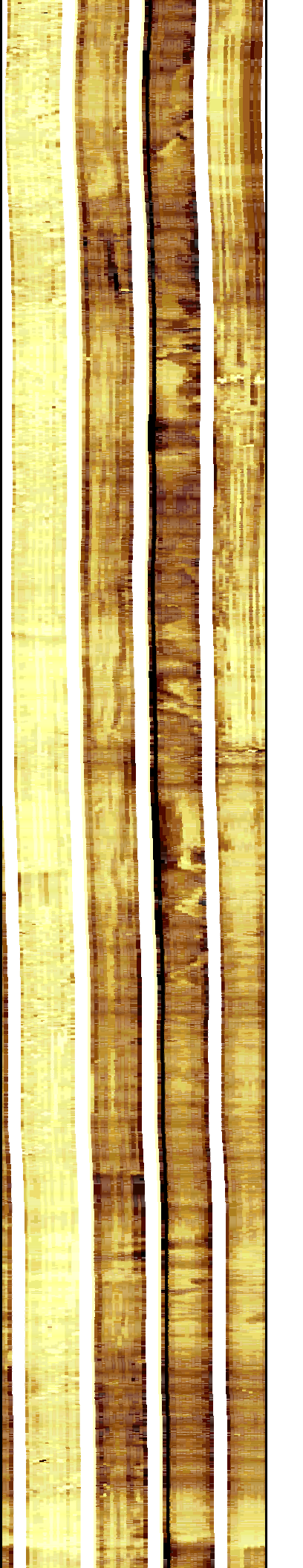
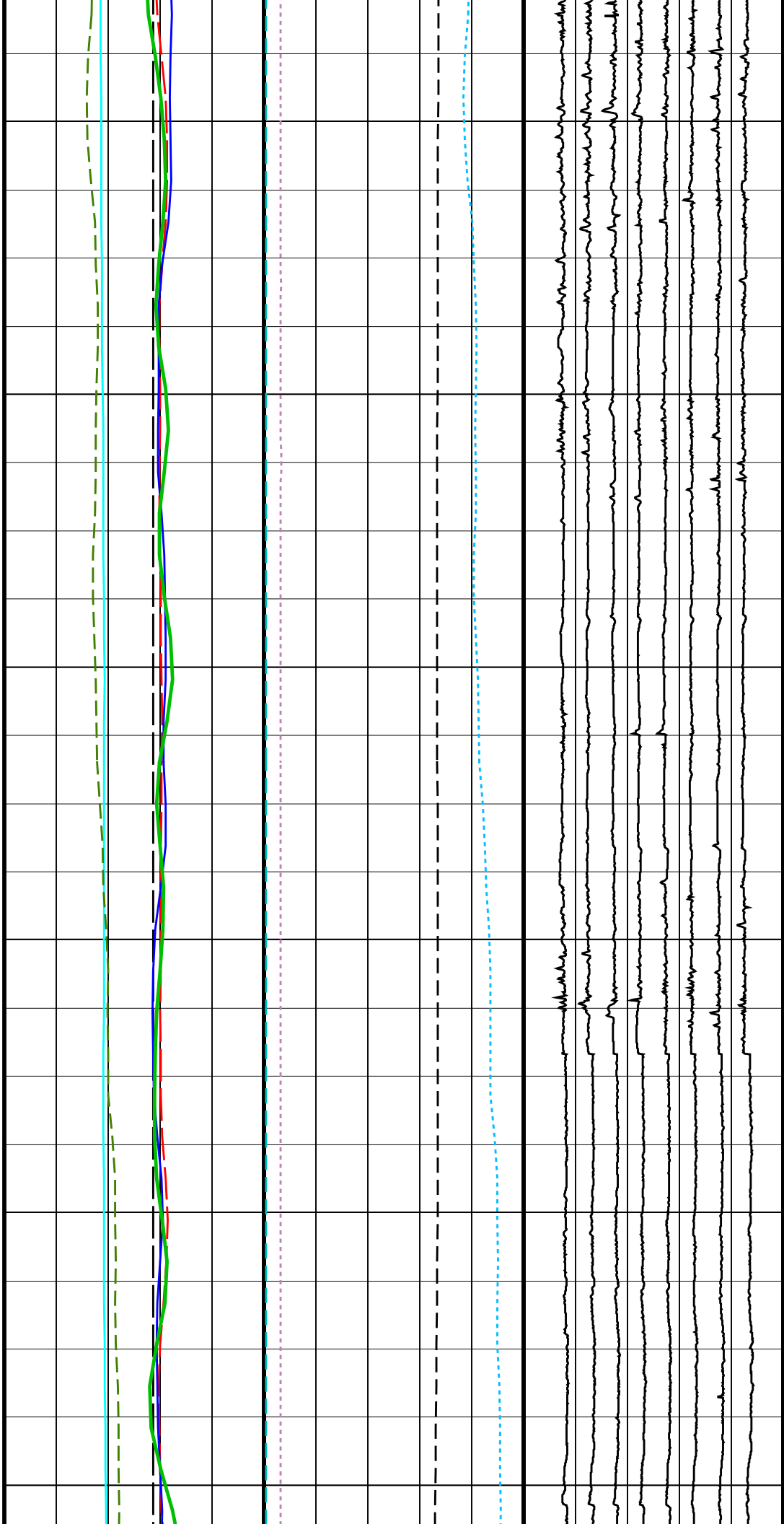
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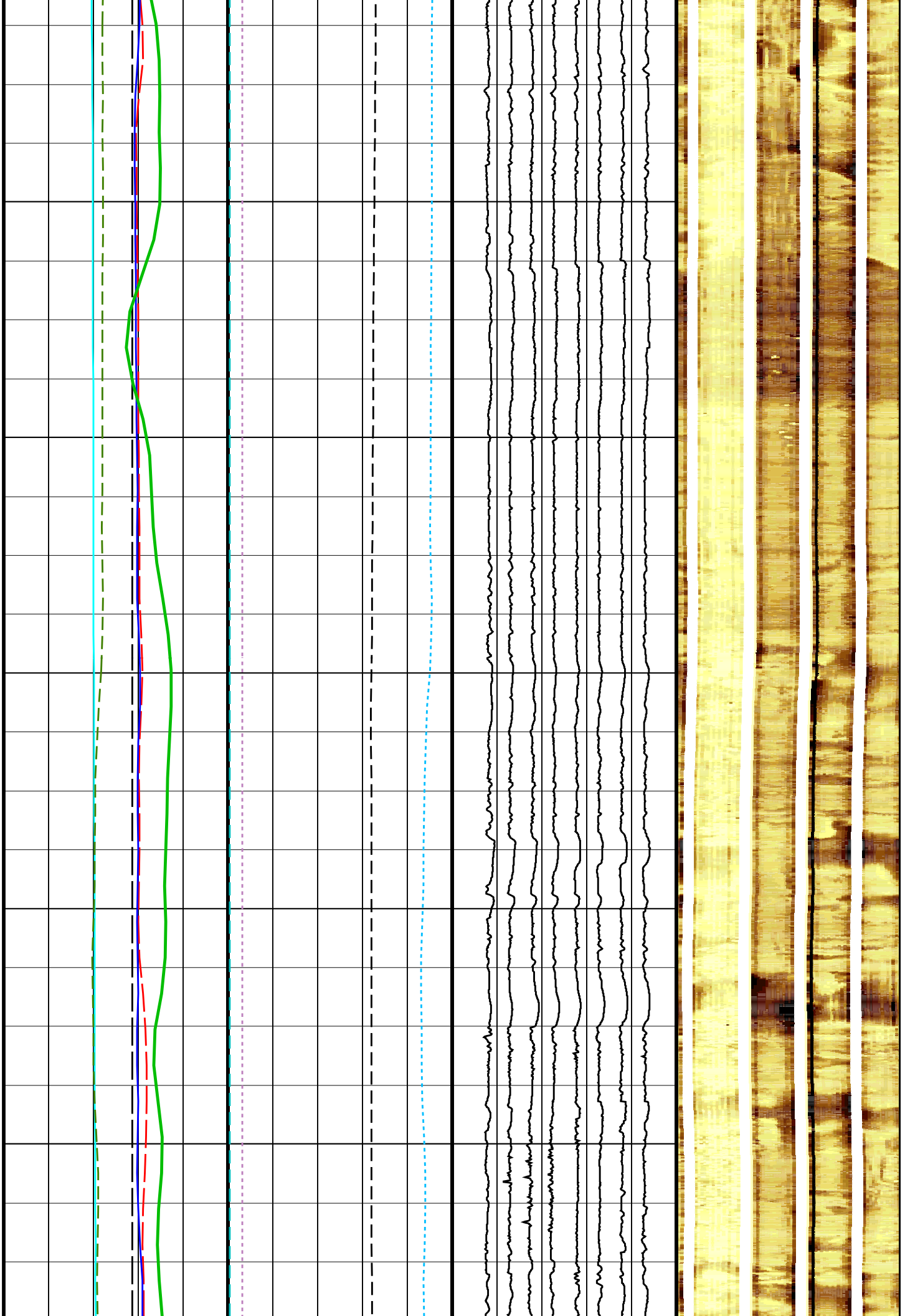
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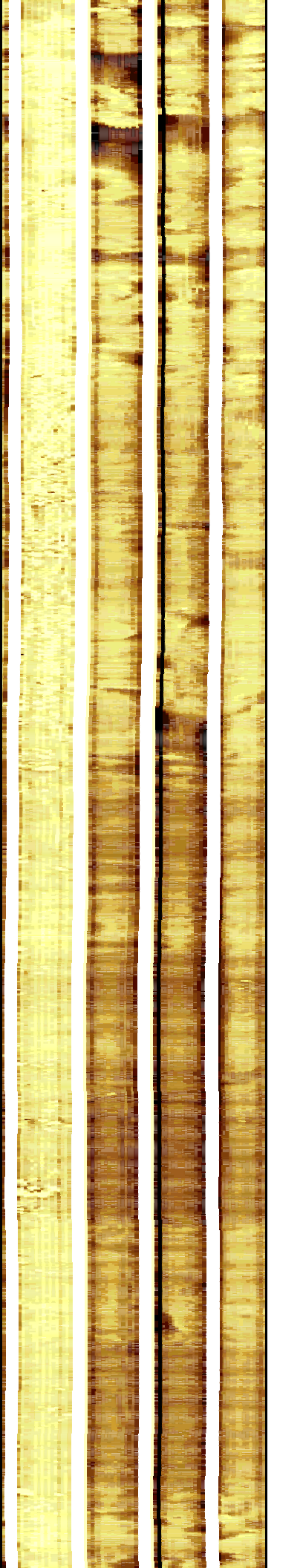
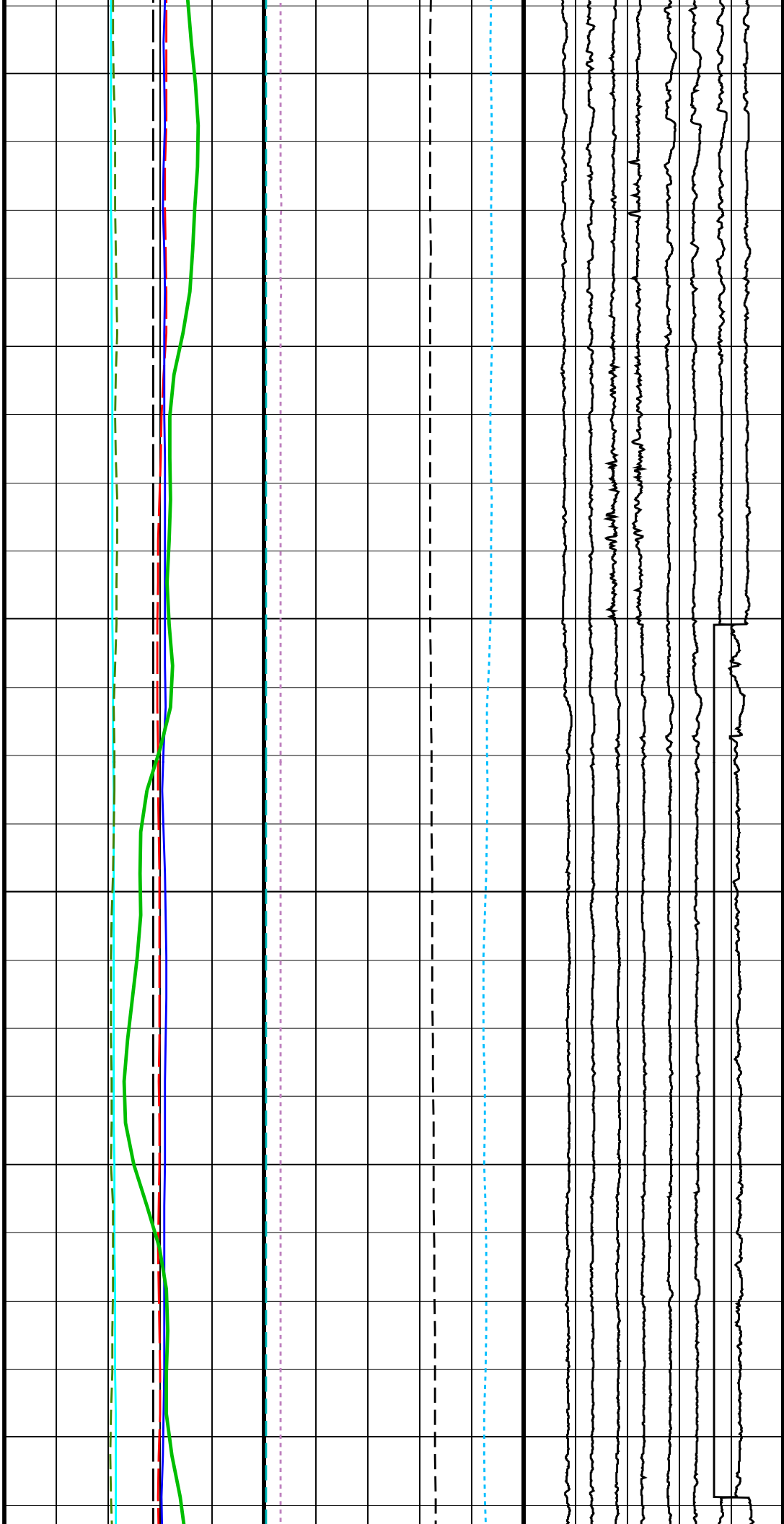
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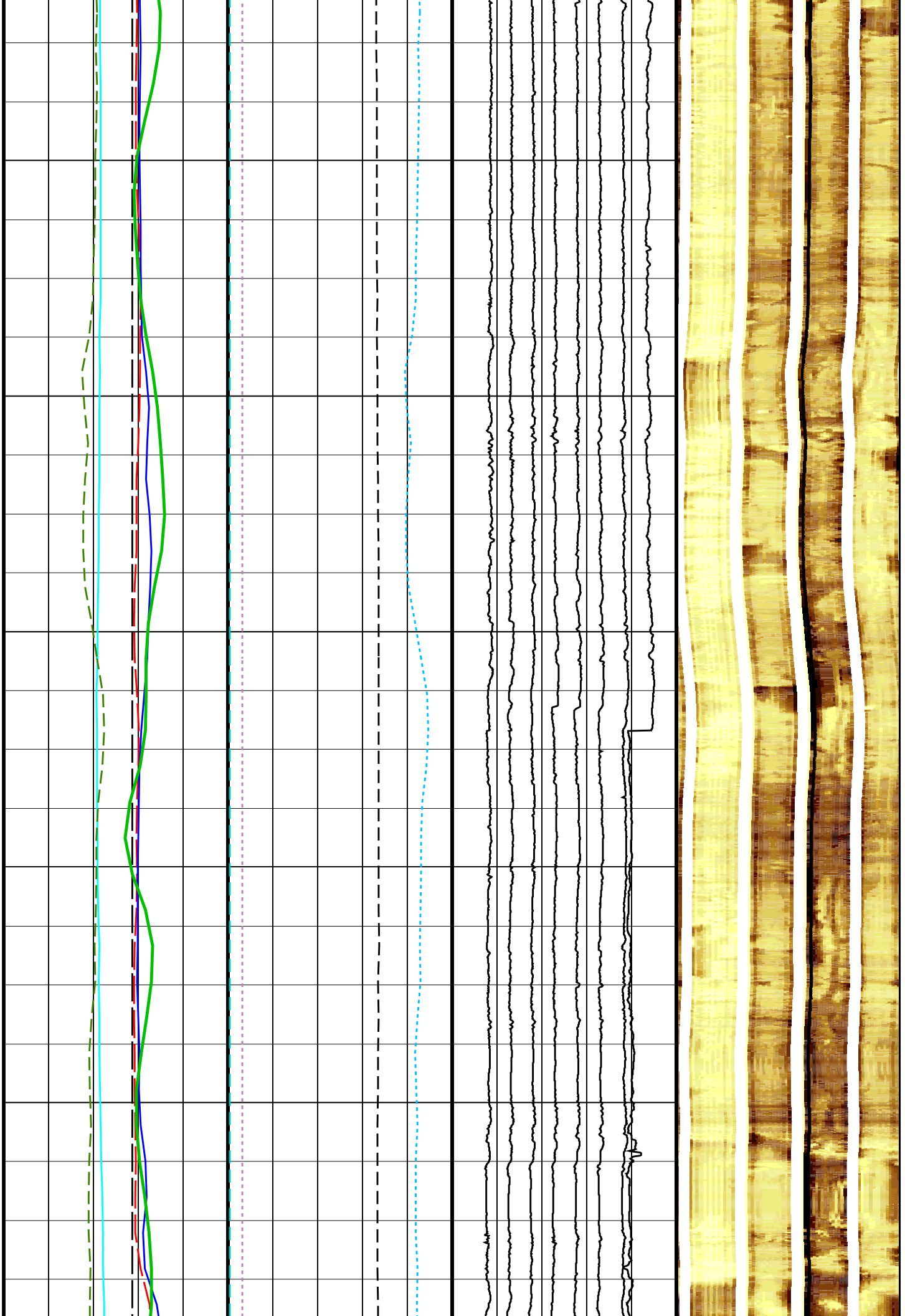
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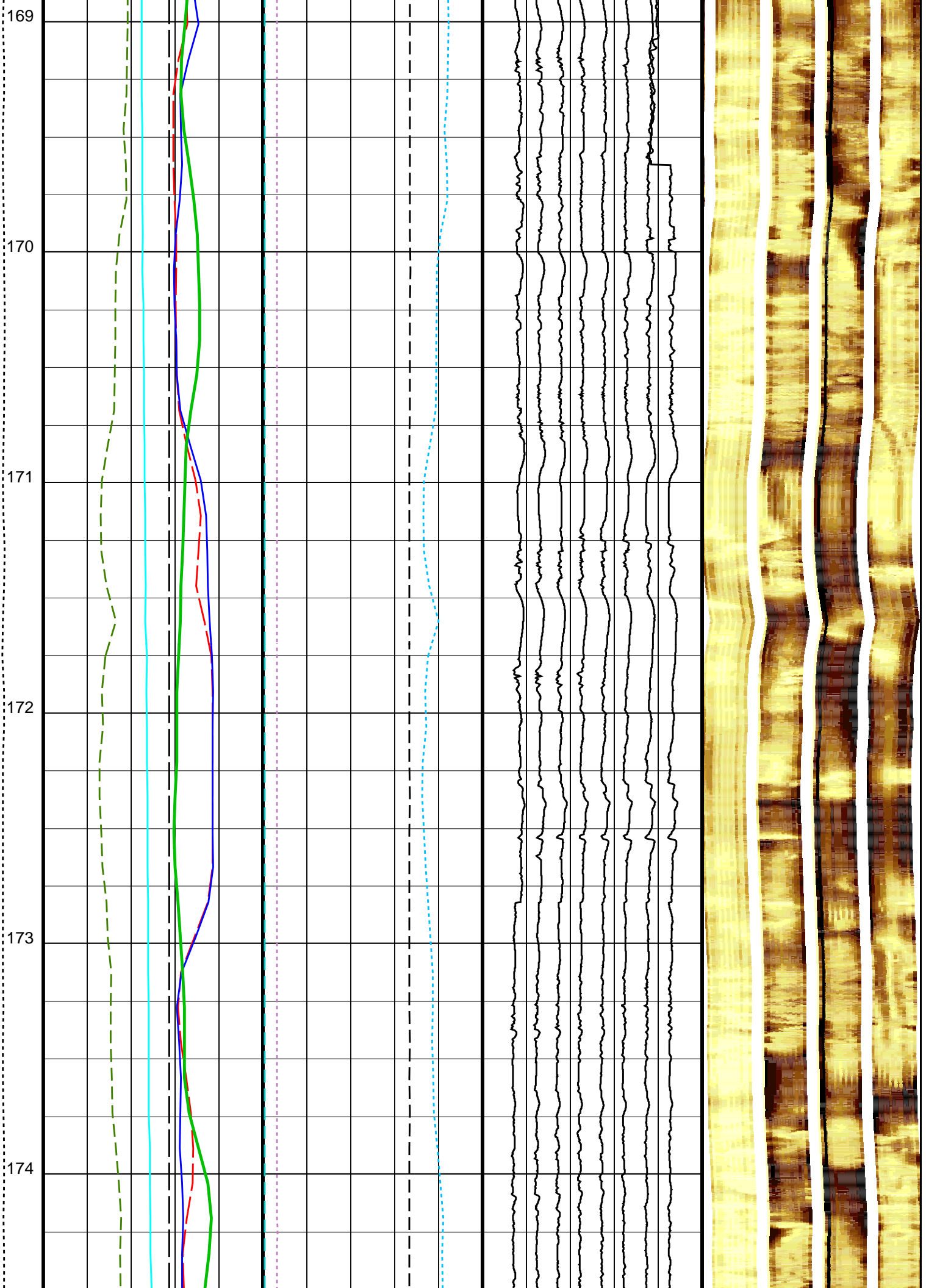
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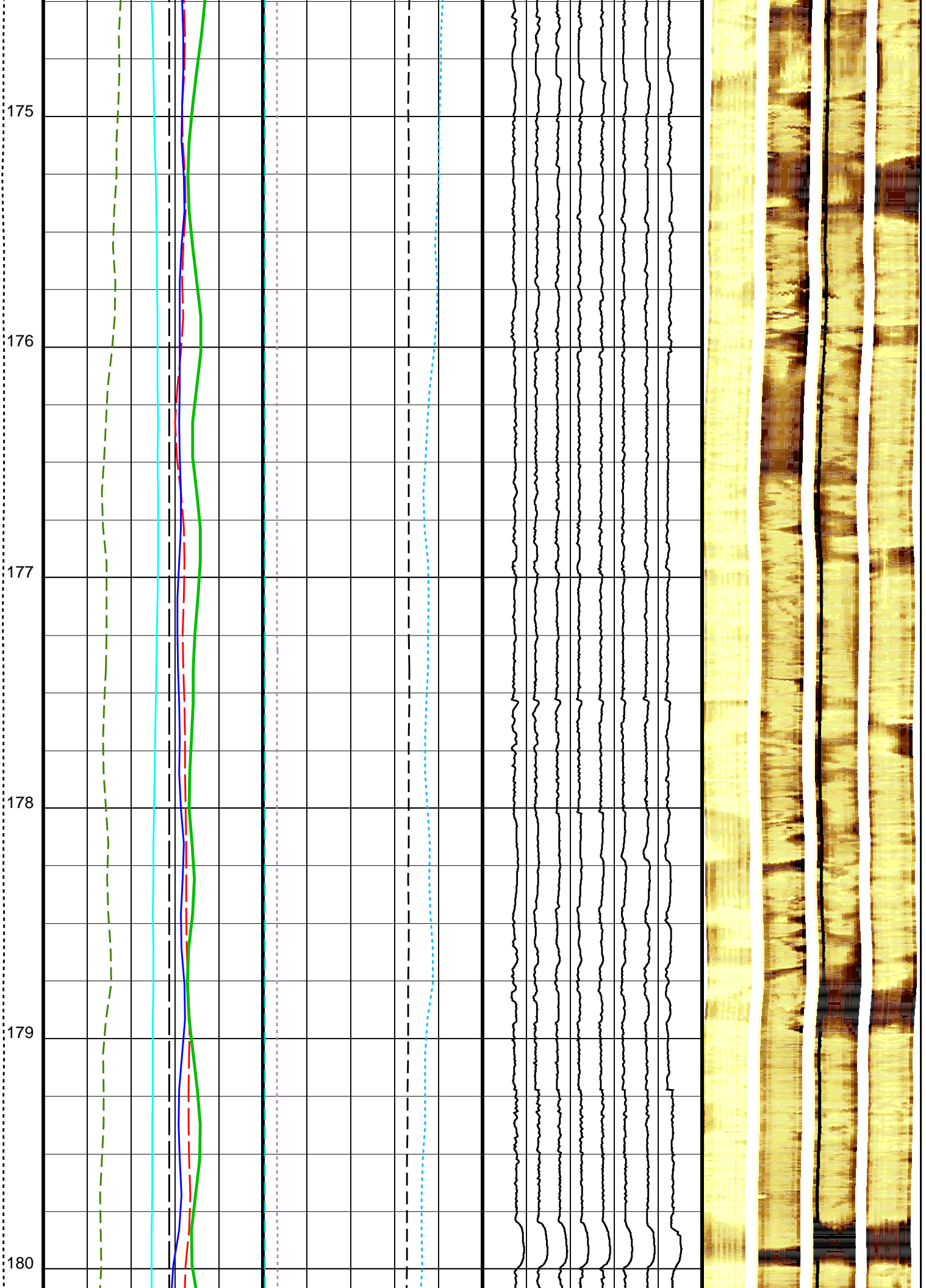
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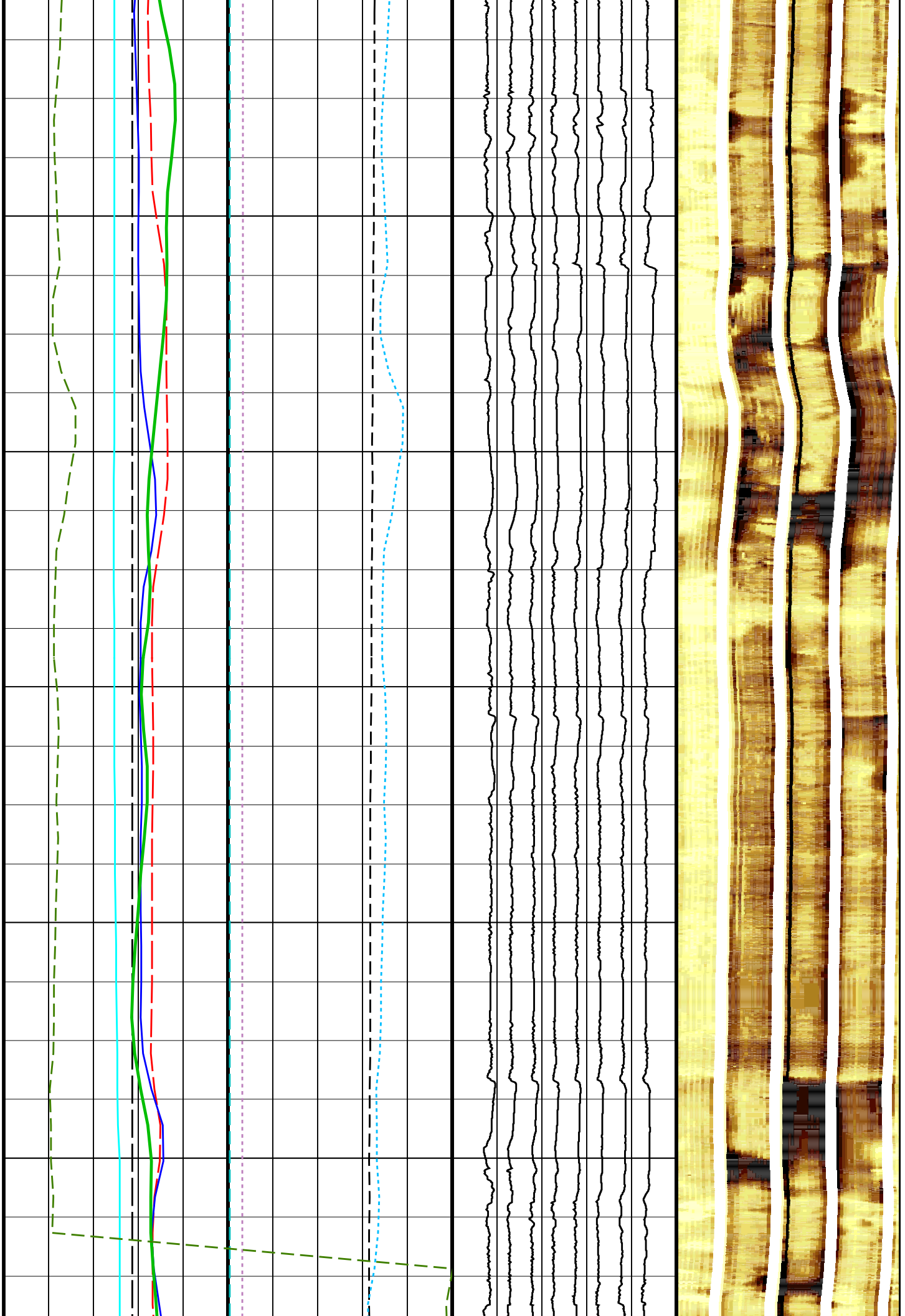
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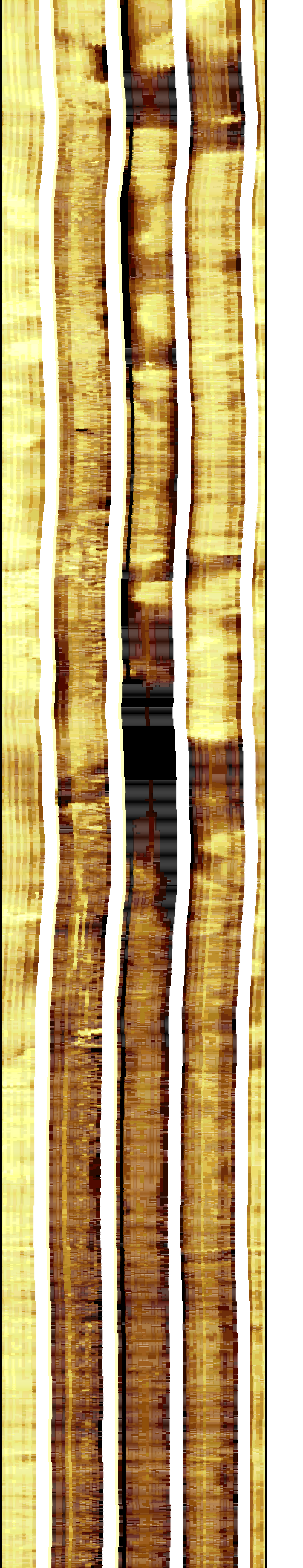
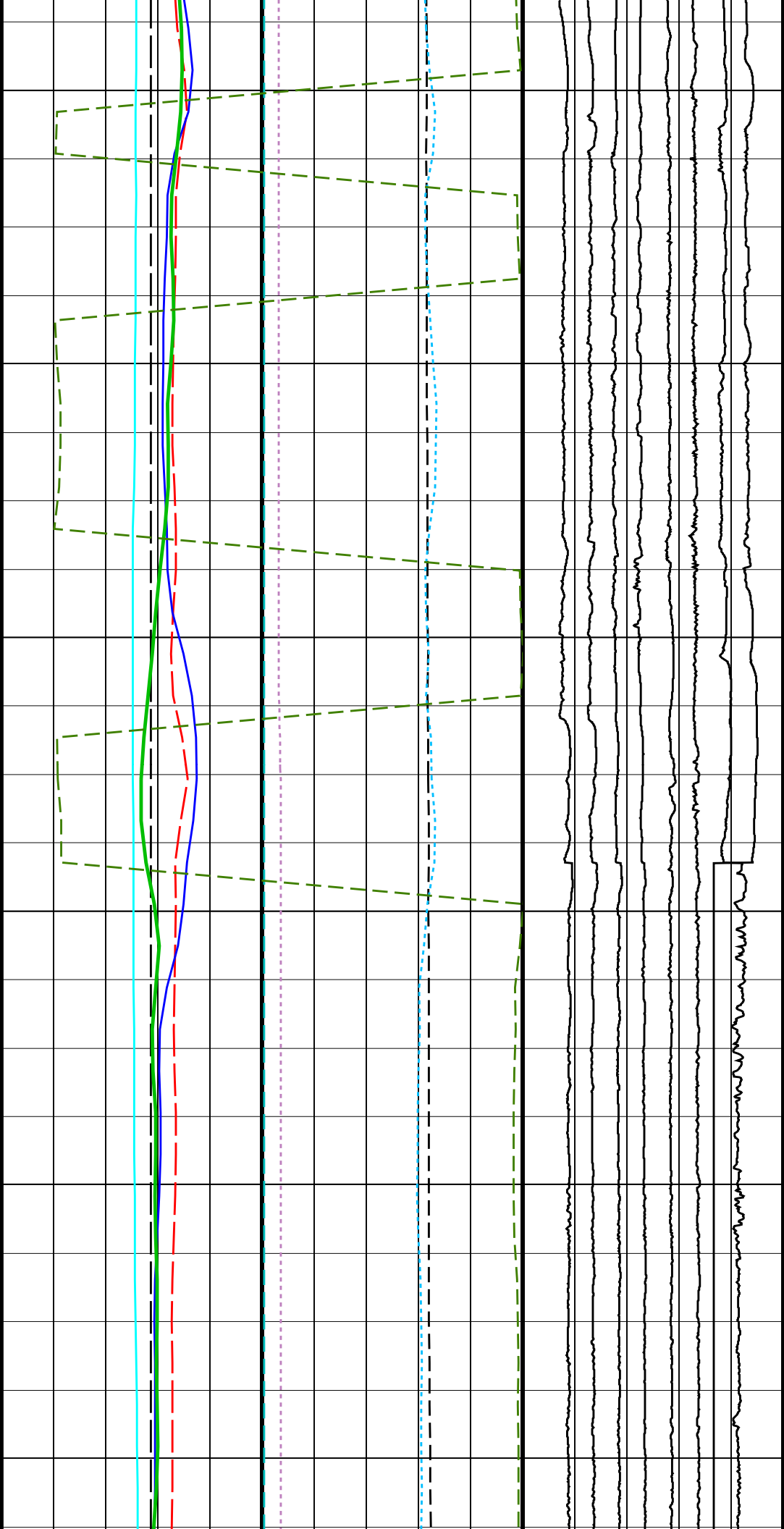




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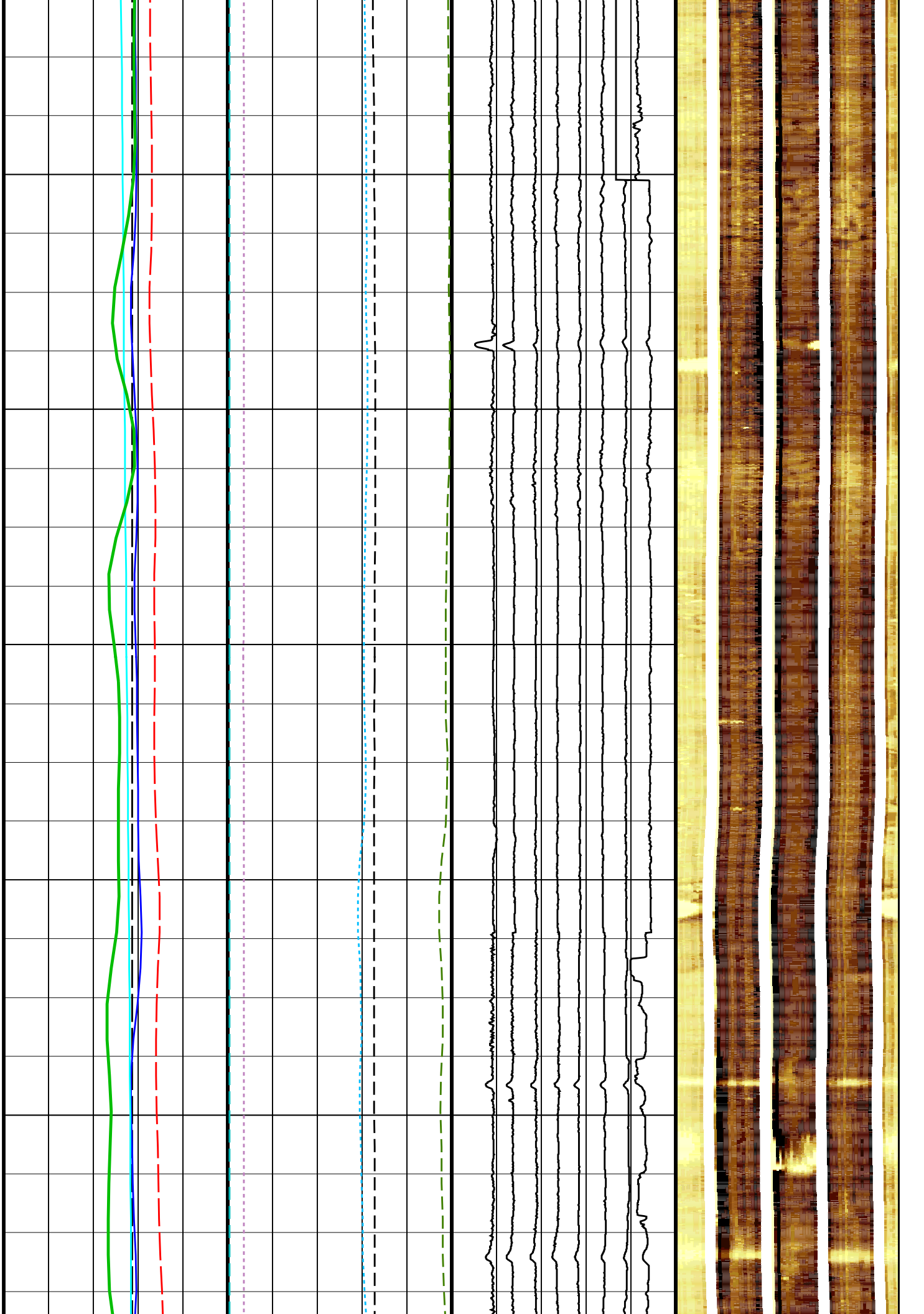
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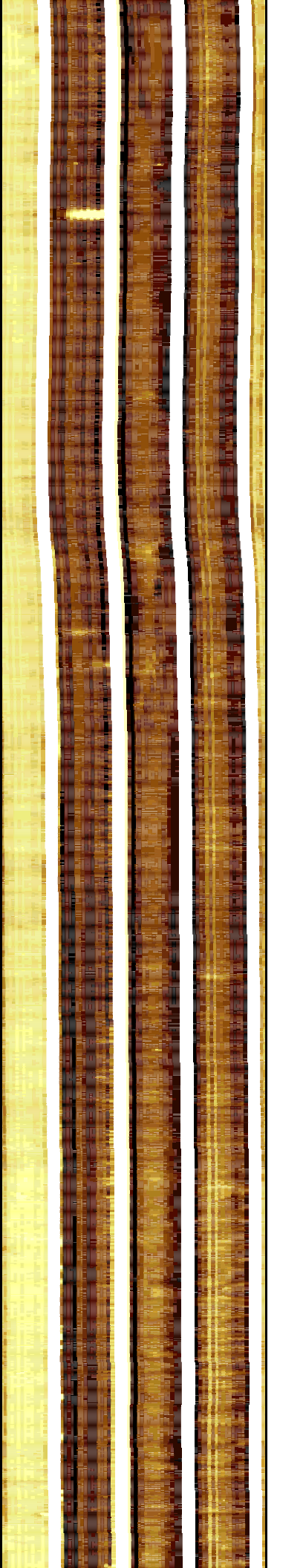
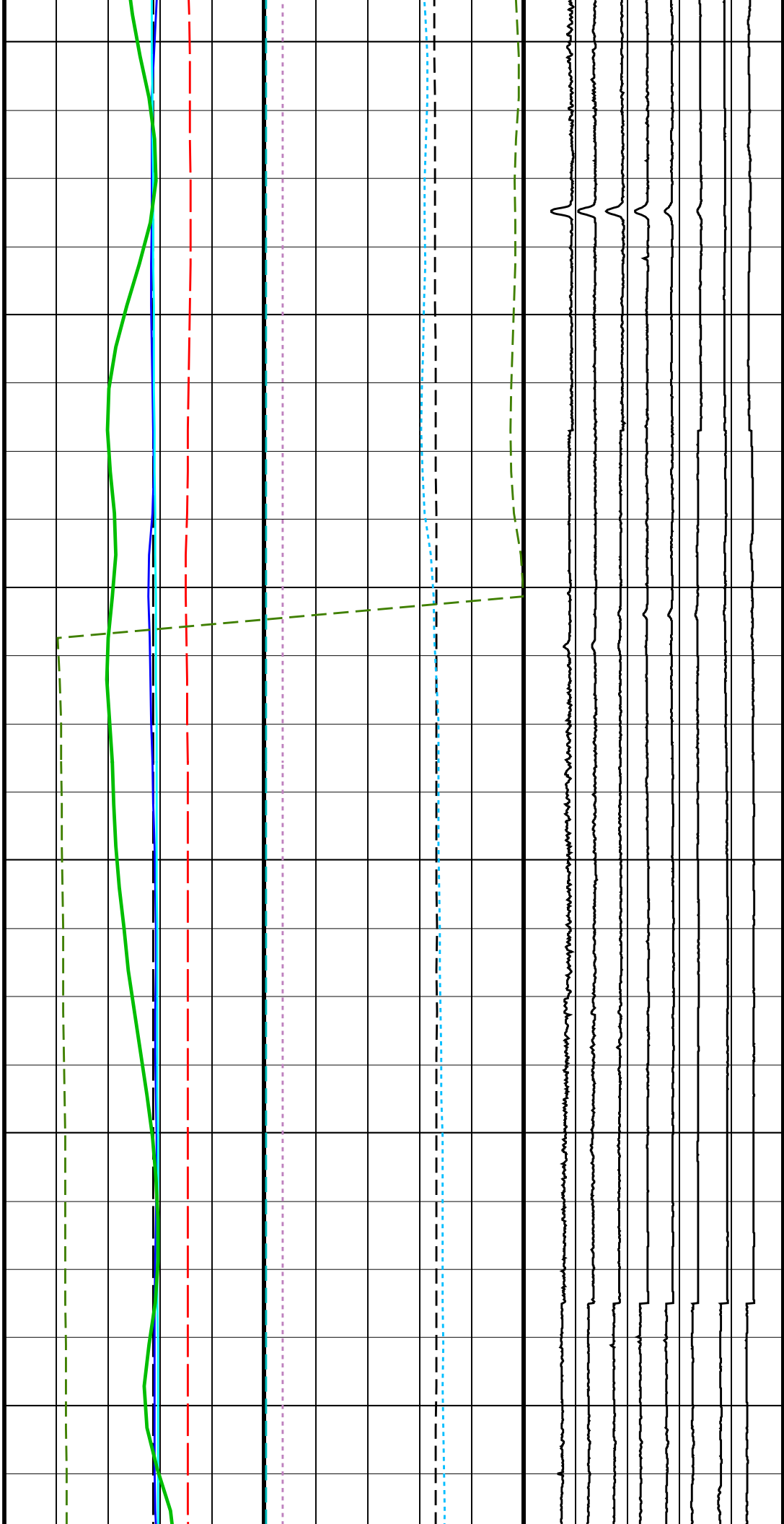
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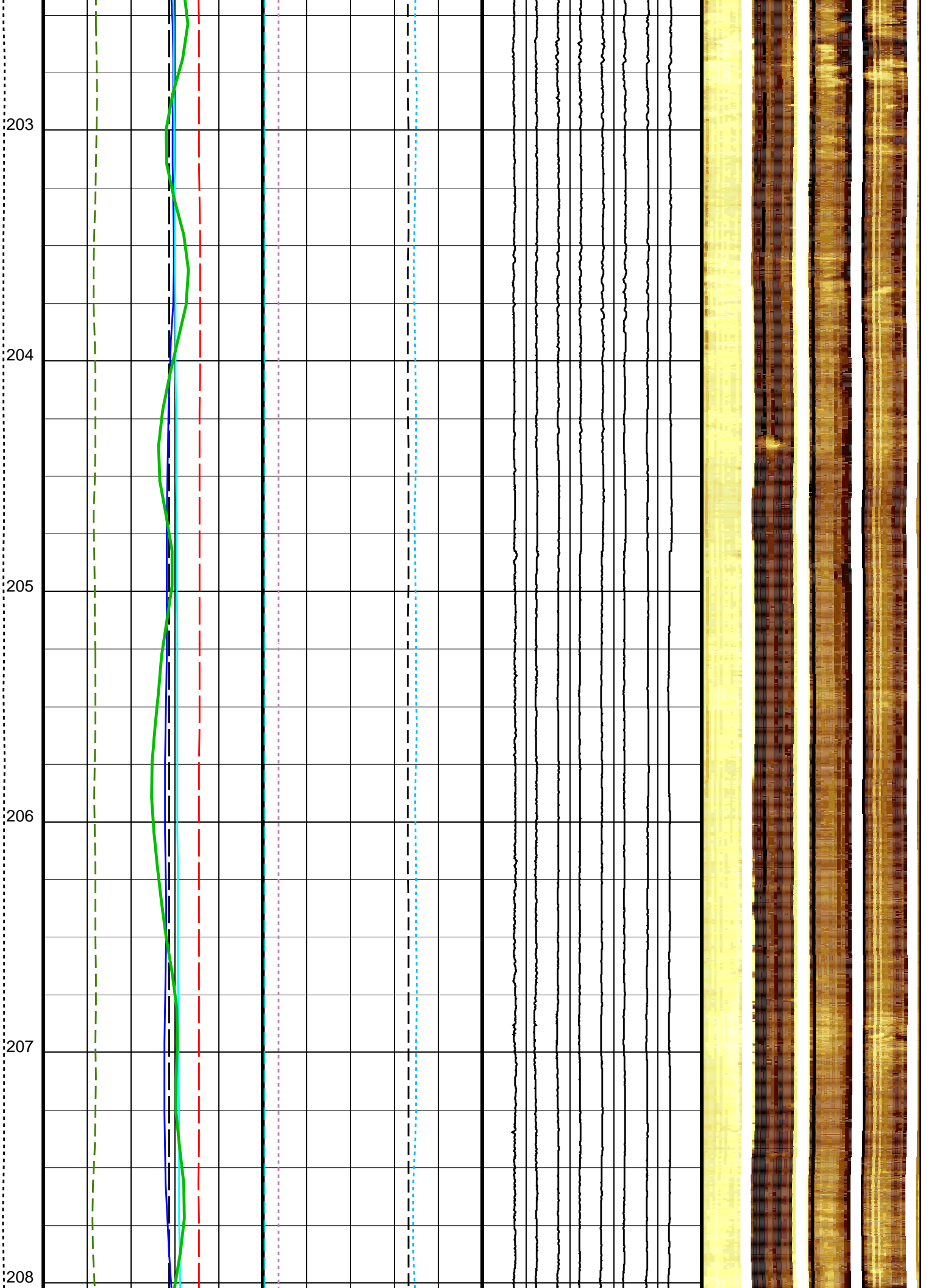
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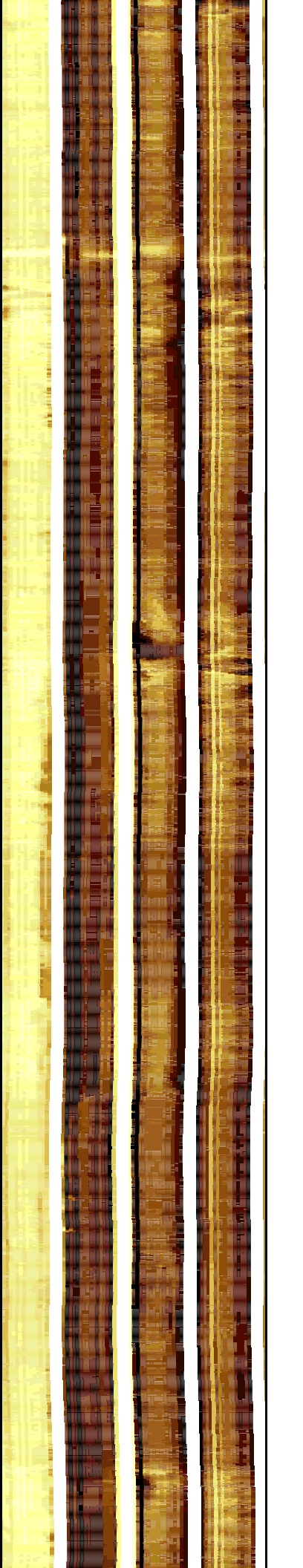
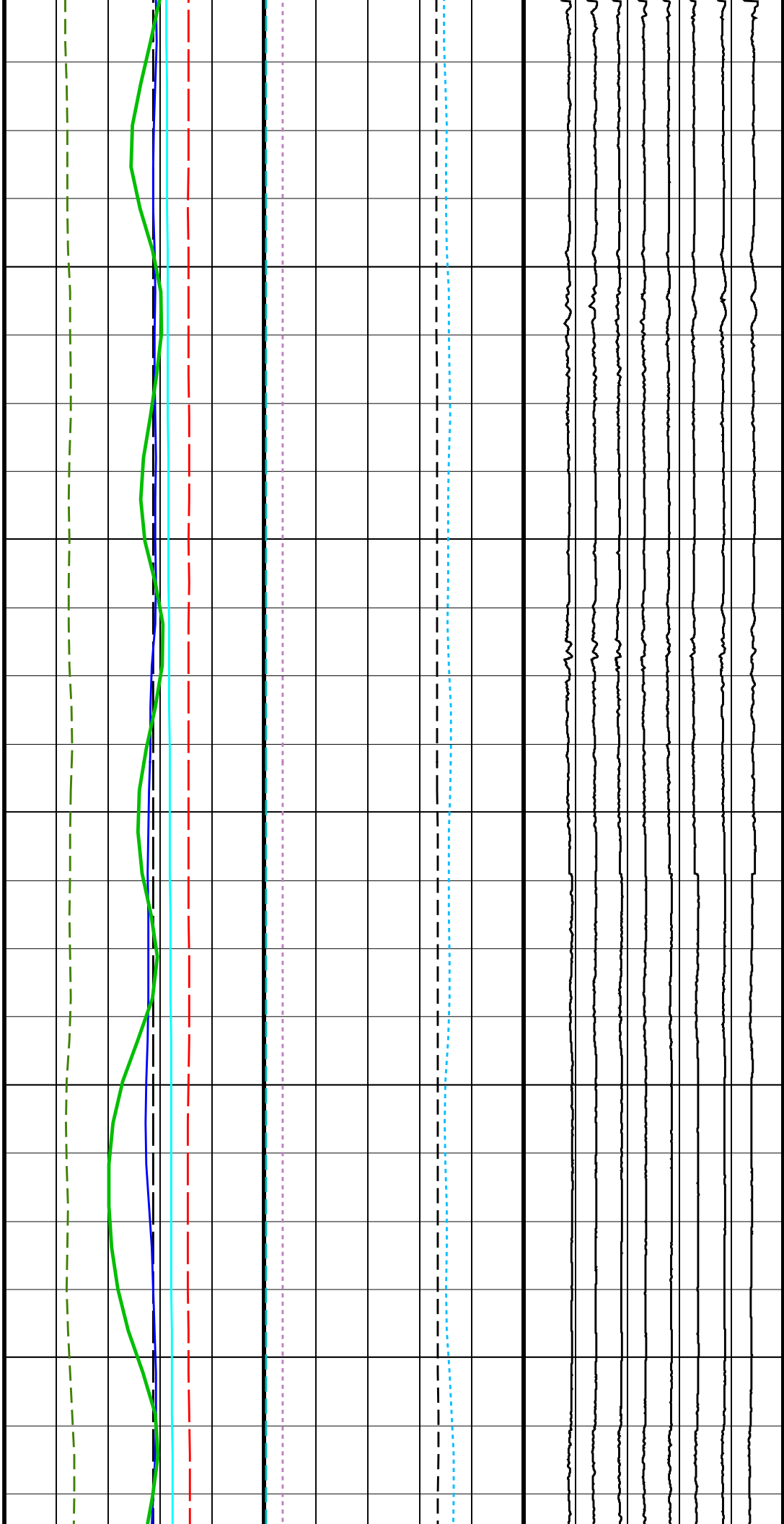
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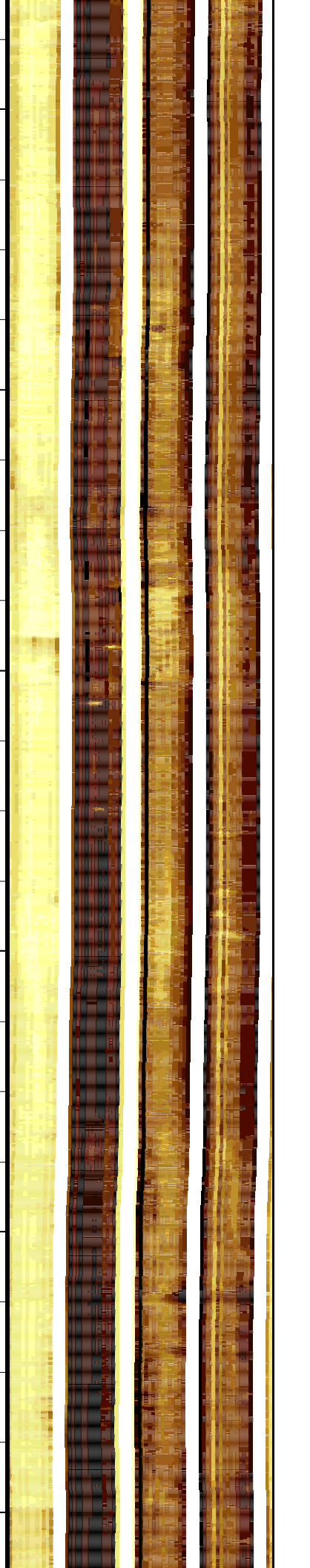
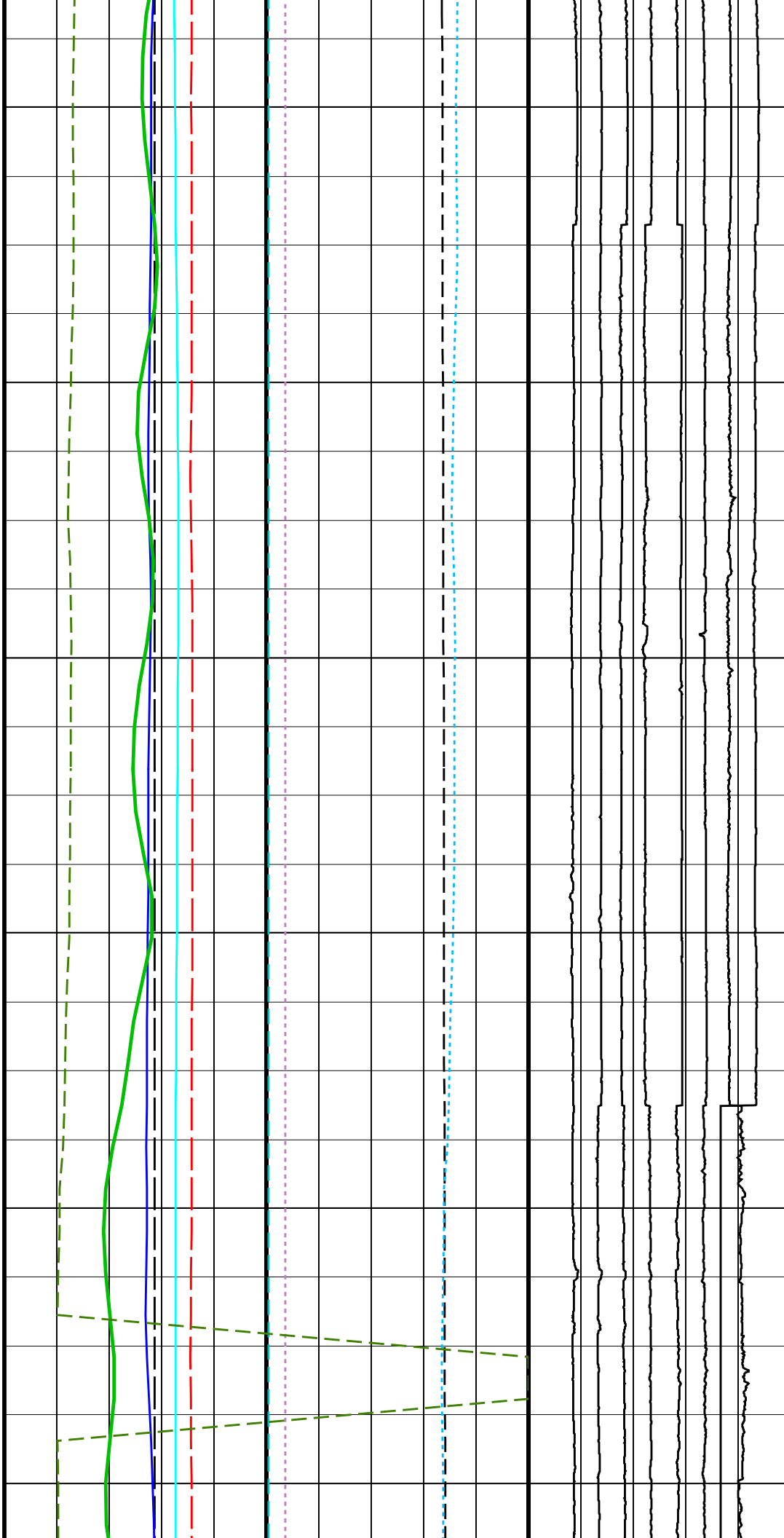
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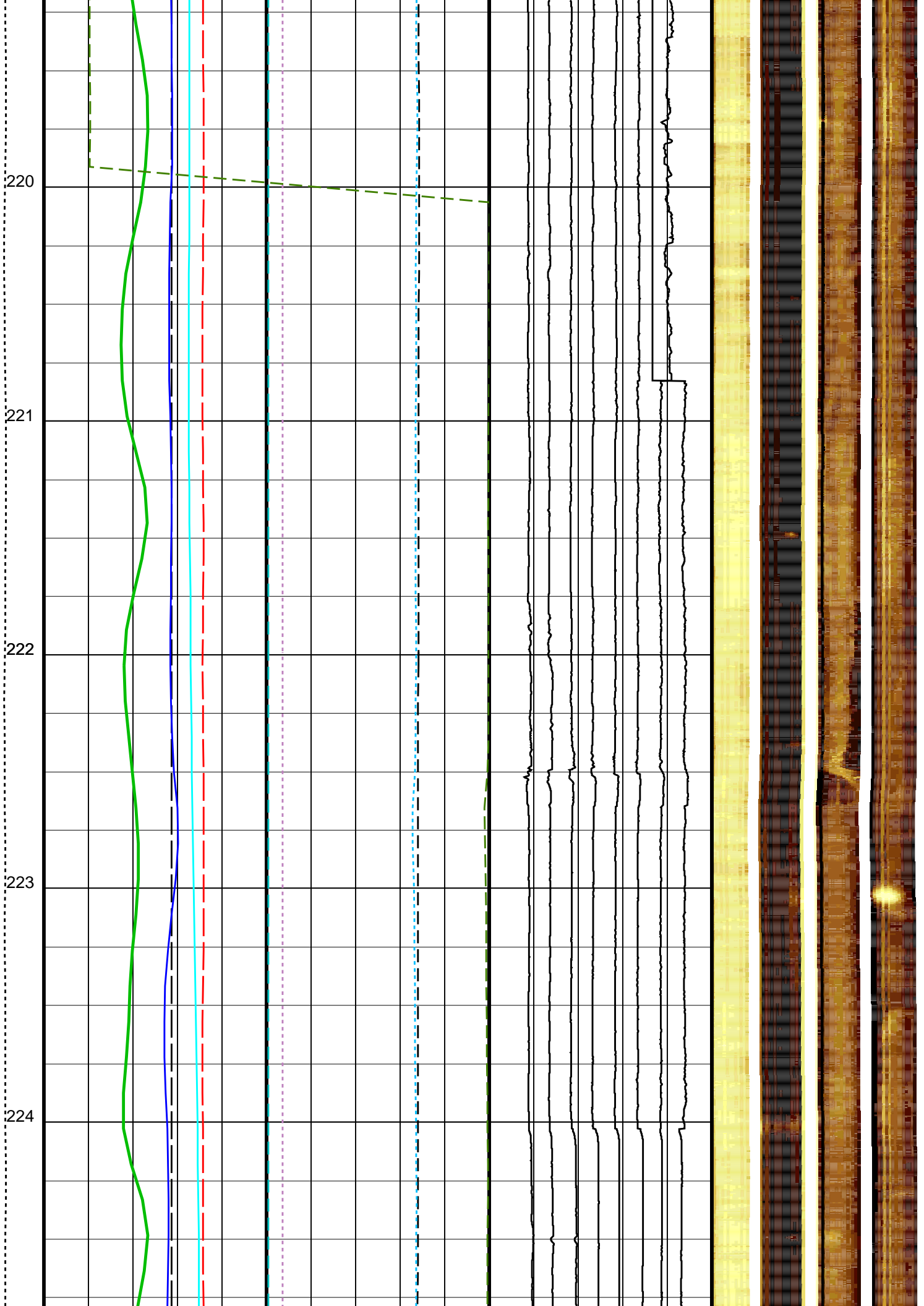
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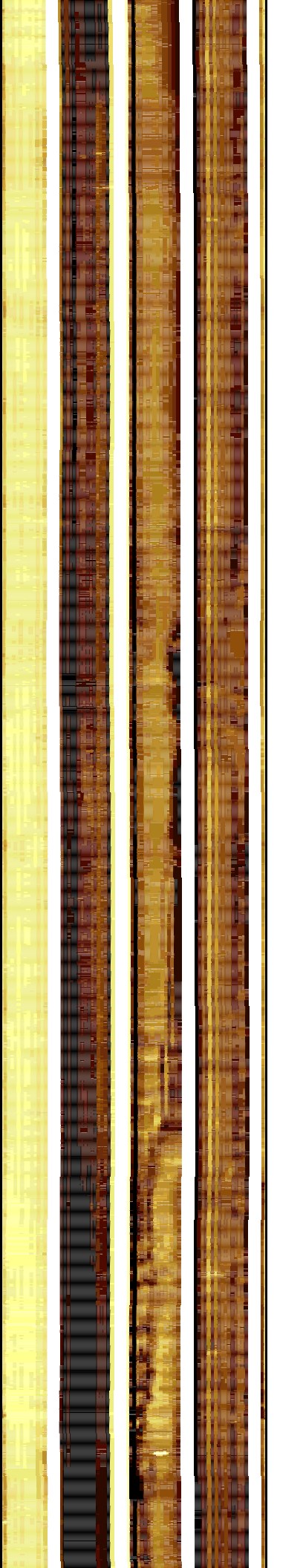
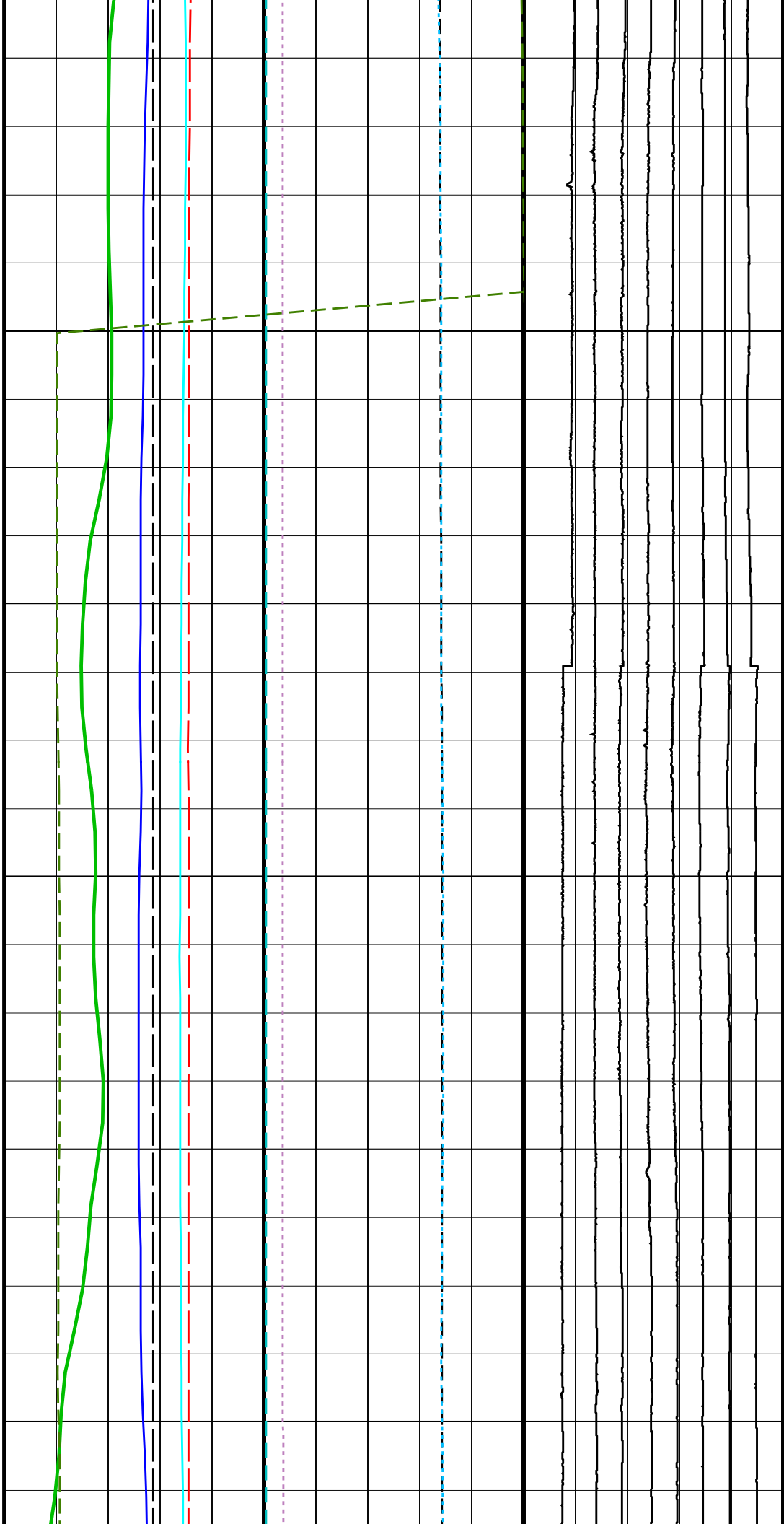


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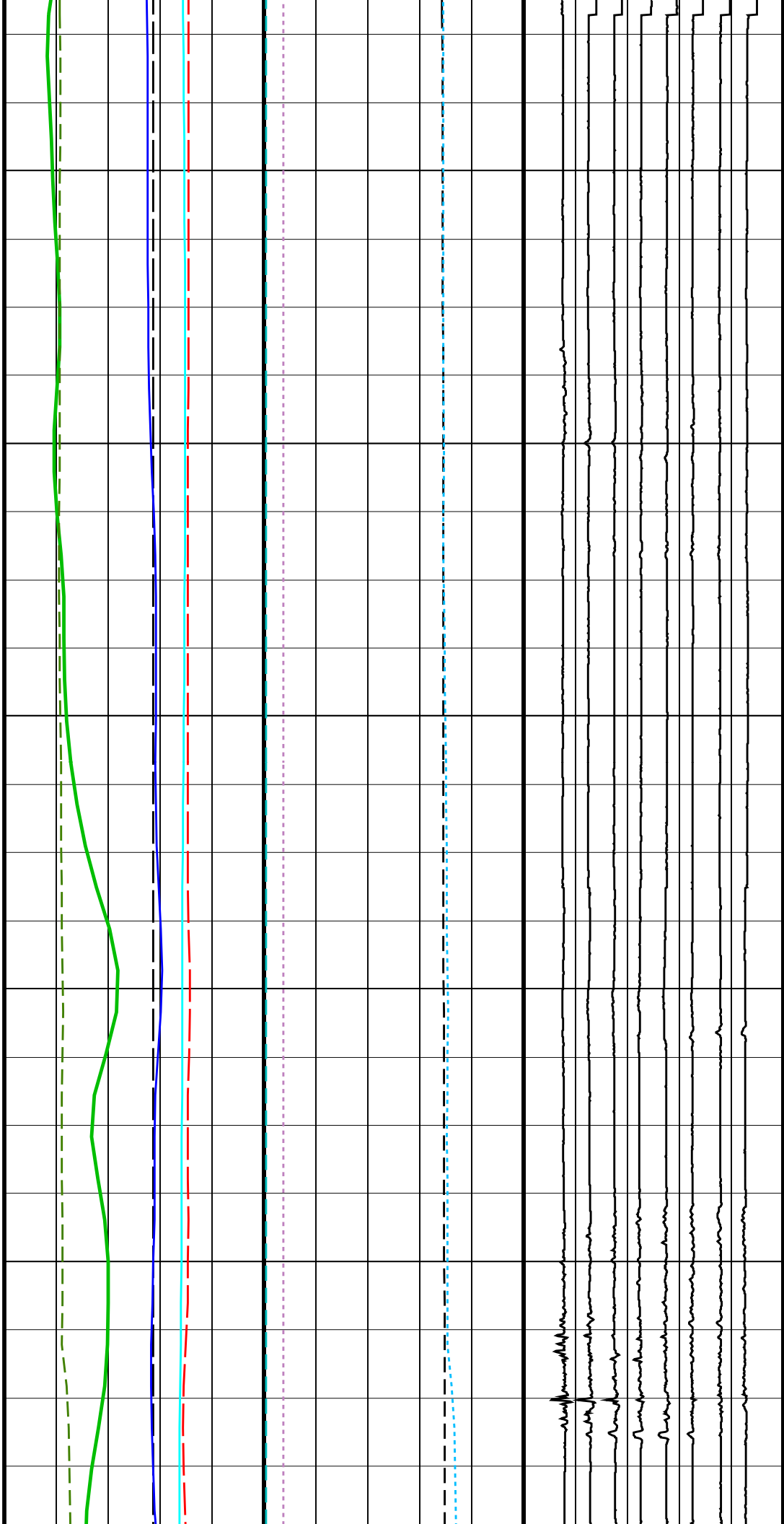
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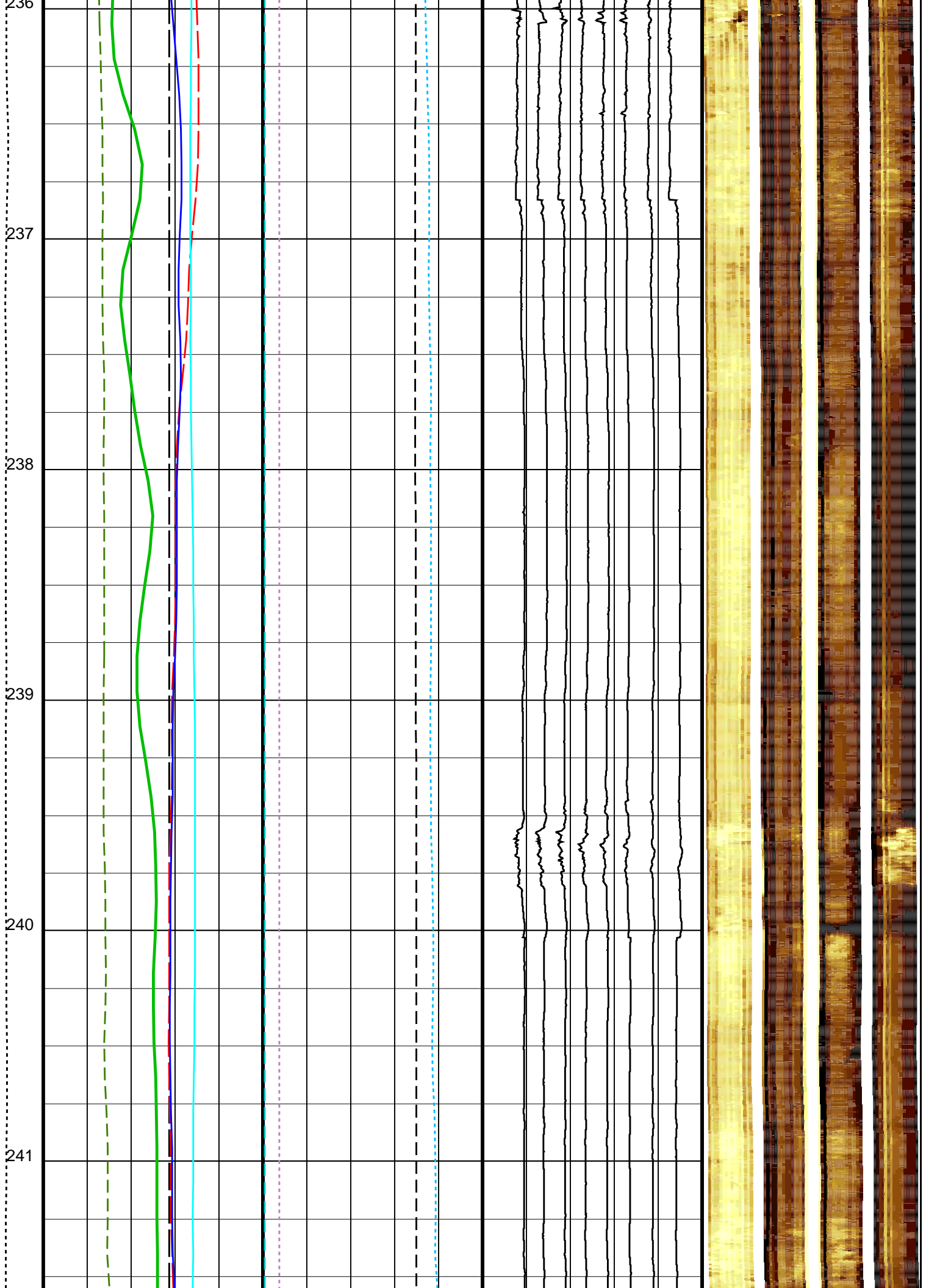
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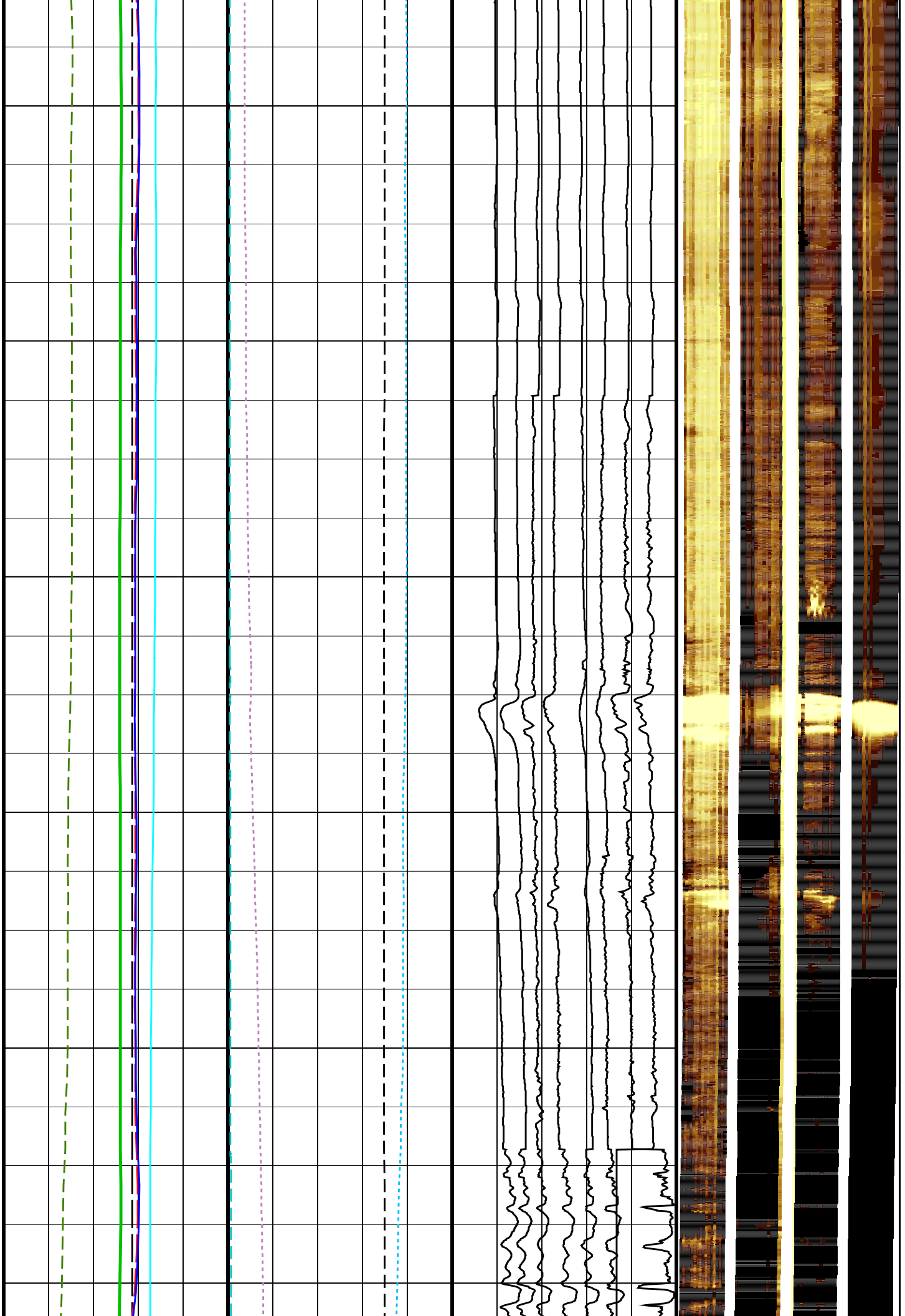
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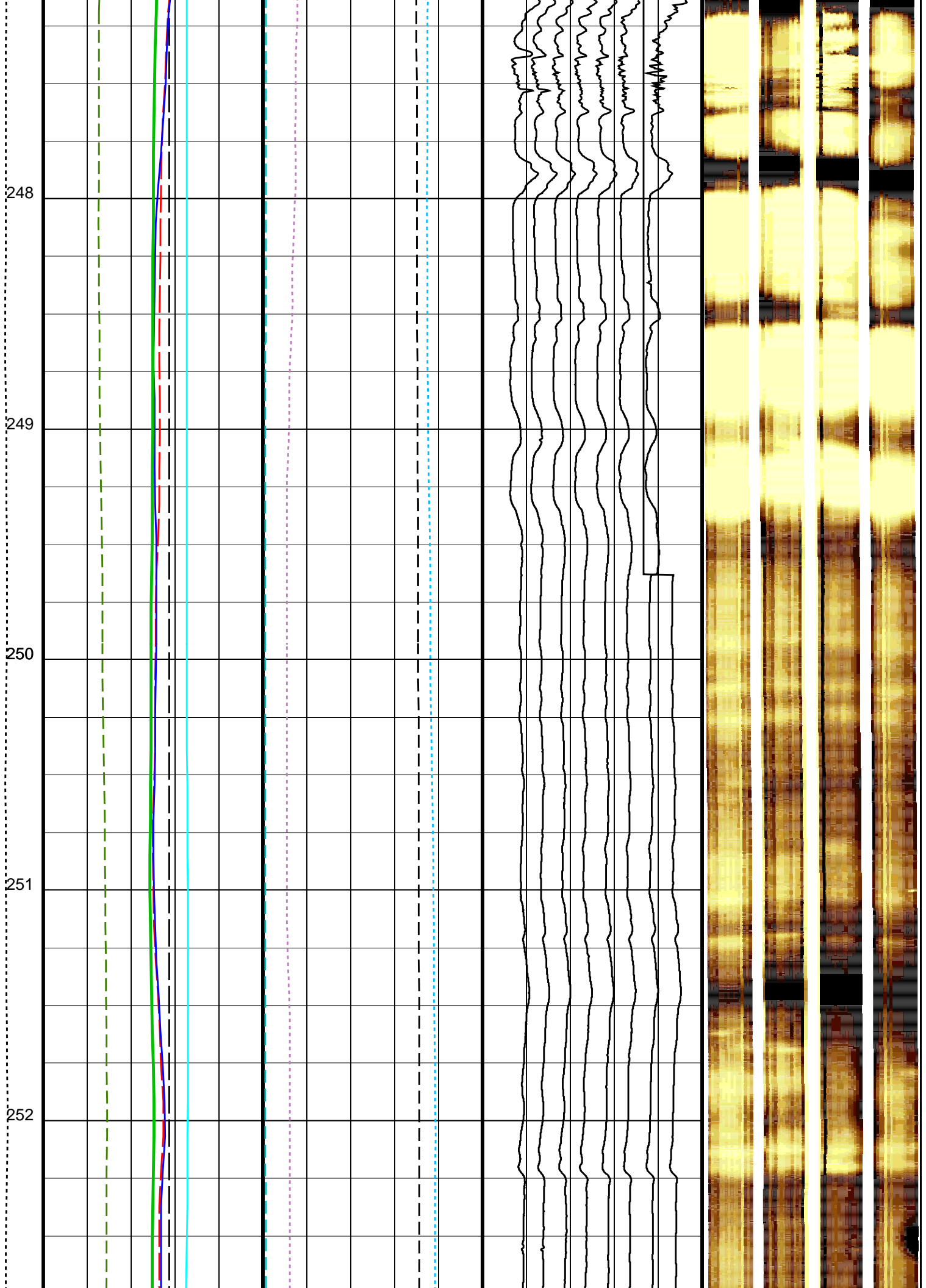
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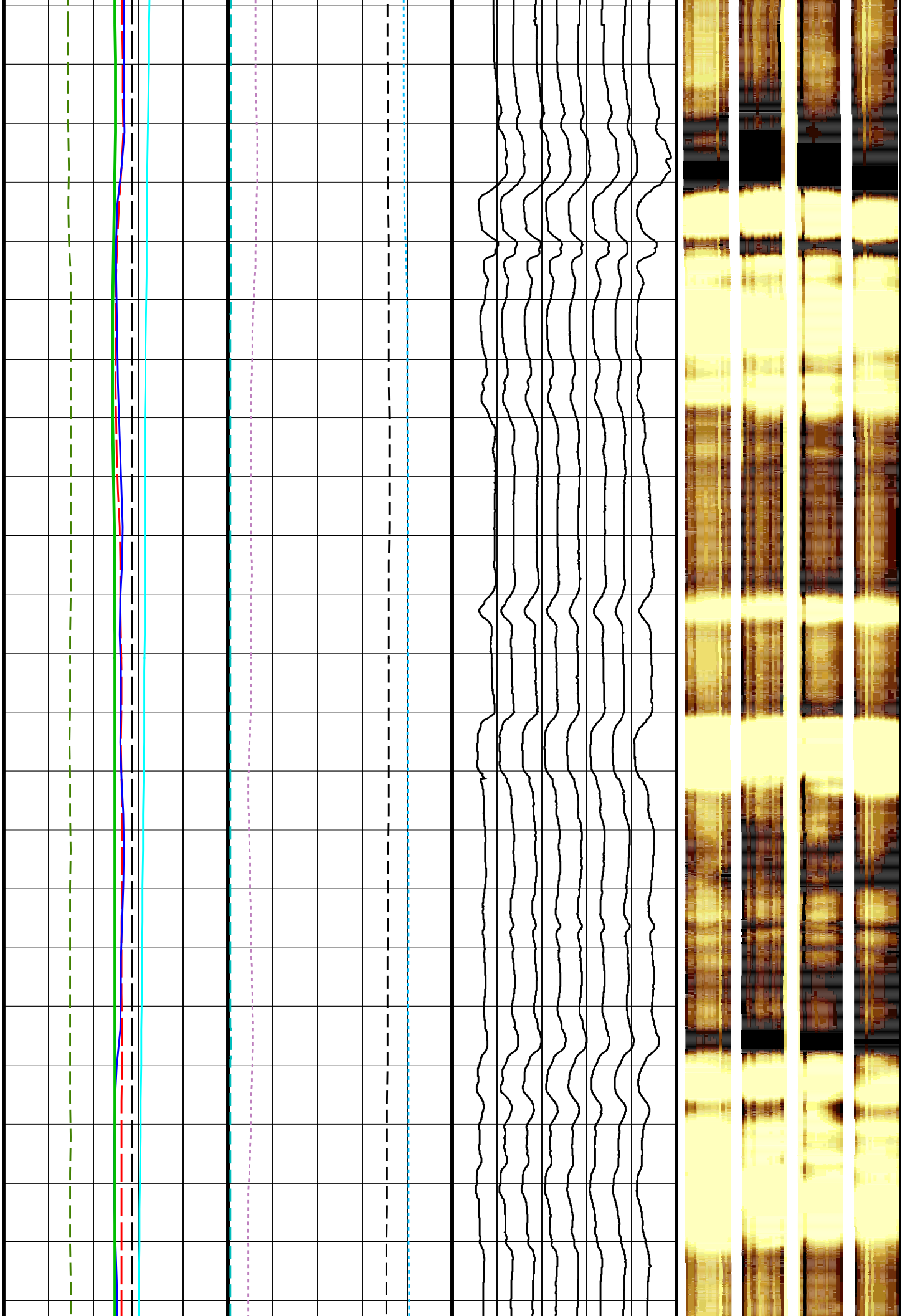


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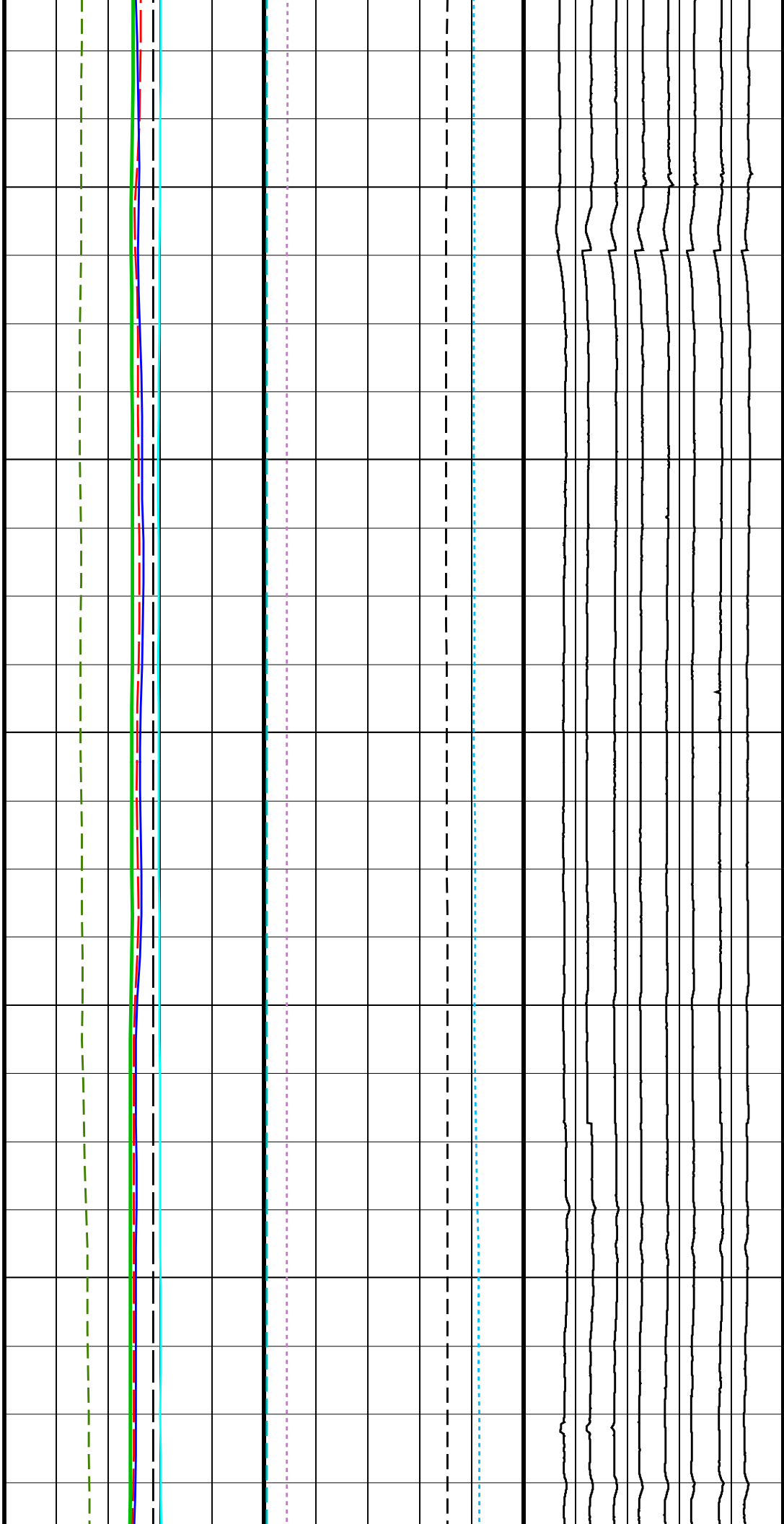
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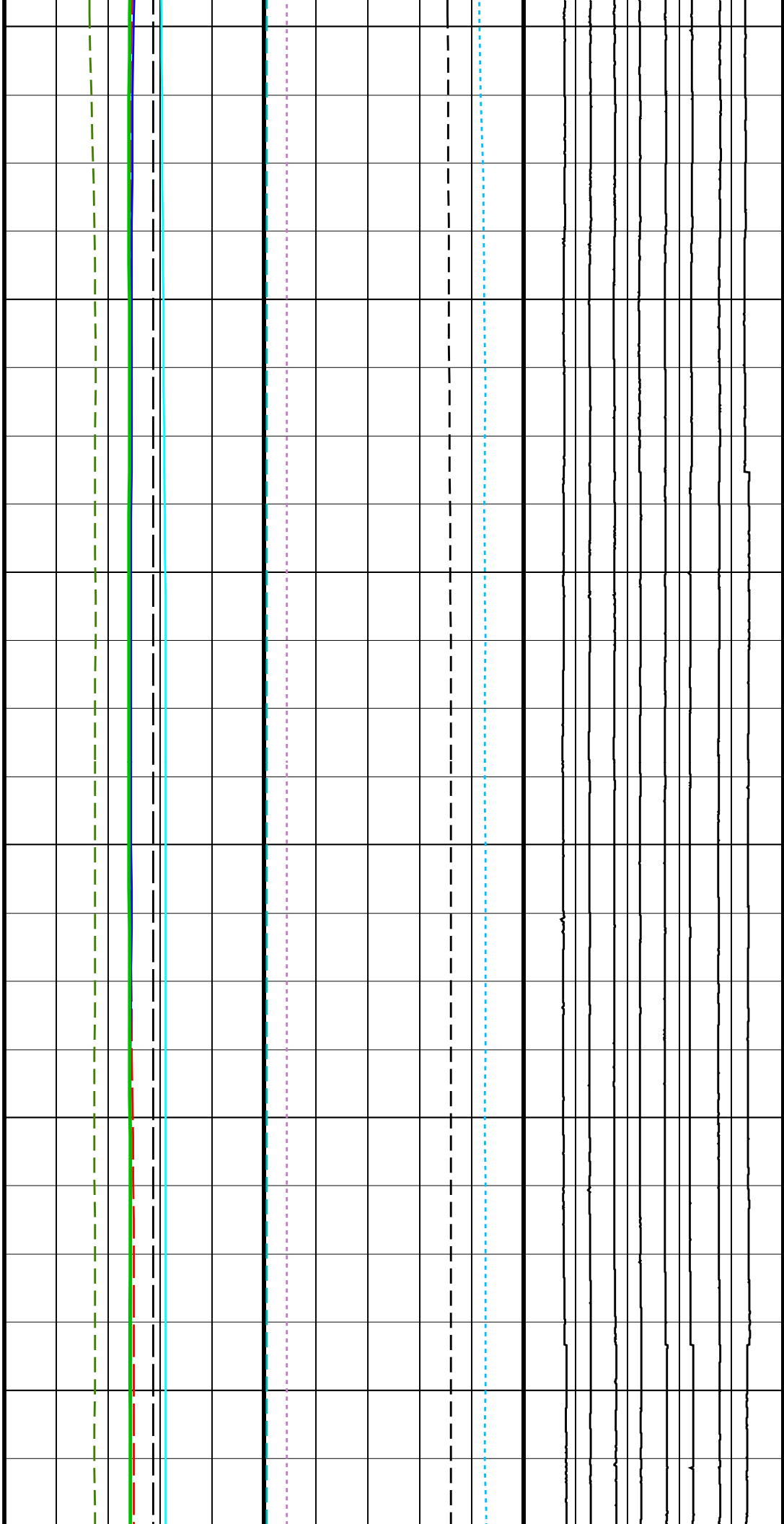
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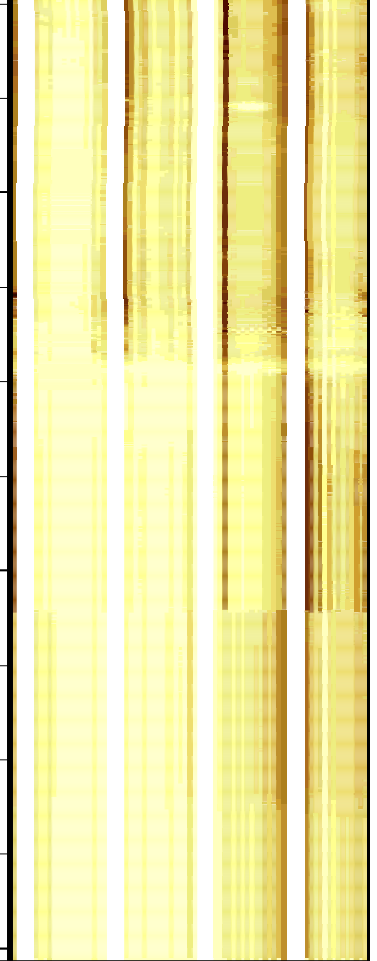
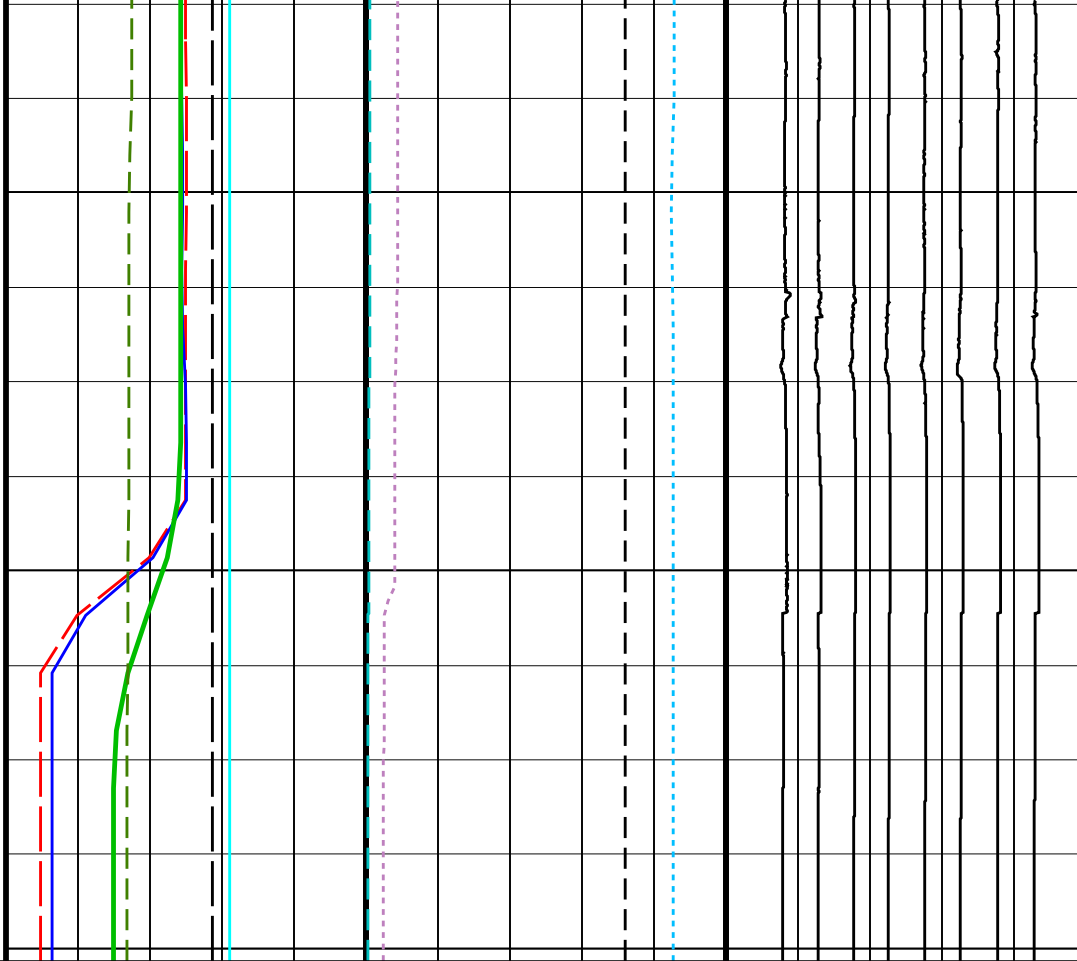
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272



<p>Tension (TENS) (LBF)</p> <p>0 5000</p>	<p>Bit Size (BS) (IN)</p> <p>0 20</p>	<p>EMEX Voltage (EV) (V)</p> <p>0 50</p>	<p>Data Button 1 - Varies with RBS (U-MEST_RB1)</p> <p>-10 (----) 90</p>	<p>3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203</p> <p>MEST_PADA (U-MEST_RESISTIVITY_PADA_DS) (----)</p>
	<p>Caliper 1 (C1) (IN)</p> <p>0 20</p>	<p>EMEX Intensity (EI) (AMPS)</p> <p>0 10</p>	<p>Data Button 2 - Varies with RBS (U-MEST_RB2)</p> <p>-20 (----) 80</p>	<p>3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203</p> <p>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS) (----)</p>
	<p>Caliper 2 (C2) (IN)</p> <p>0 20</p>		<p>Data Button 3 - Varies with RBS (U-MEST_RB3)</p> <p>-30 (----) 70</p>	<p>3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203</p> <p>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)</p>
	<p>Deviation (DEVIM) (DEG)</p> <p>0 10</p>		<p>Data Button 4 - Varies with RBS (U-MEST_RB4)</p> <p>-40 (----) 60</p>	<p>3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203</p> <p>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)</p>
	<p>Hole Azimuth (HAZIM) (DEG)</p> <p>-40 360</p>		<p>Data Button 5 - Varies with RBS (U-MEST_RB5)</p> <p>-50 (----) 50</p>	
	<p>Pad One Azimuth (P1AZ_MEST) (DEG)</p> <p>-40 360</p>		<p>Data Button 6 - Varies with RBS (U-MEST_RB6)</p> <p>-60 (----) 40</p>	
	<p>Relative Bearing (RB_MEST) (DEG)</p> <p>-40 360</p>		<p>Data Button 7 - Varies with RBS (U-MEST_RB7)</p> <p>-70 (----) 30</p>	
<p>HNGS Spectroscopy Gamma</p>			<p>Data Button 8 - Varies with</p>	

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	-8.51986	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
	DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	HNGS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0214685	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.973109	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.963734	
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-1081.3	M
PP	Playback Processing	NORMAL	

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:20

Graphics File Created: 21-Sep-2013 13:03

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_021LUP	FN:20	PRODUCER	20-Sep-2013 03:35	1353.3 M	1125.2 M
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Output DLIS Files

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CLIENT	FMS_DSI_NGS_047PUC	FN:55	CUSTOMER	21-Sep-2013 13:03

Company: Lamont Doherty Earth Observatory Well: Expedition 346, Site U1430B

Input DLIS Files

DEFAULT FMS_DSI_NGS_022LUP FN:21 PRODUCER 20-Sep-2013 04:13 1353.3 M 1038.6 M

Output DLIS Files





DEFAULT FMS_DSI_NGS_046PUP FN:52 PRODUCER 21-Sep-2013 12:59 272.0 M -10.1 M
 CLIENT FMS_DSI_NGS_046PUC FN:53 CUSTOMER 21-Sep-2013 12:59 272.0 M -10.1 M

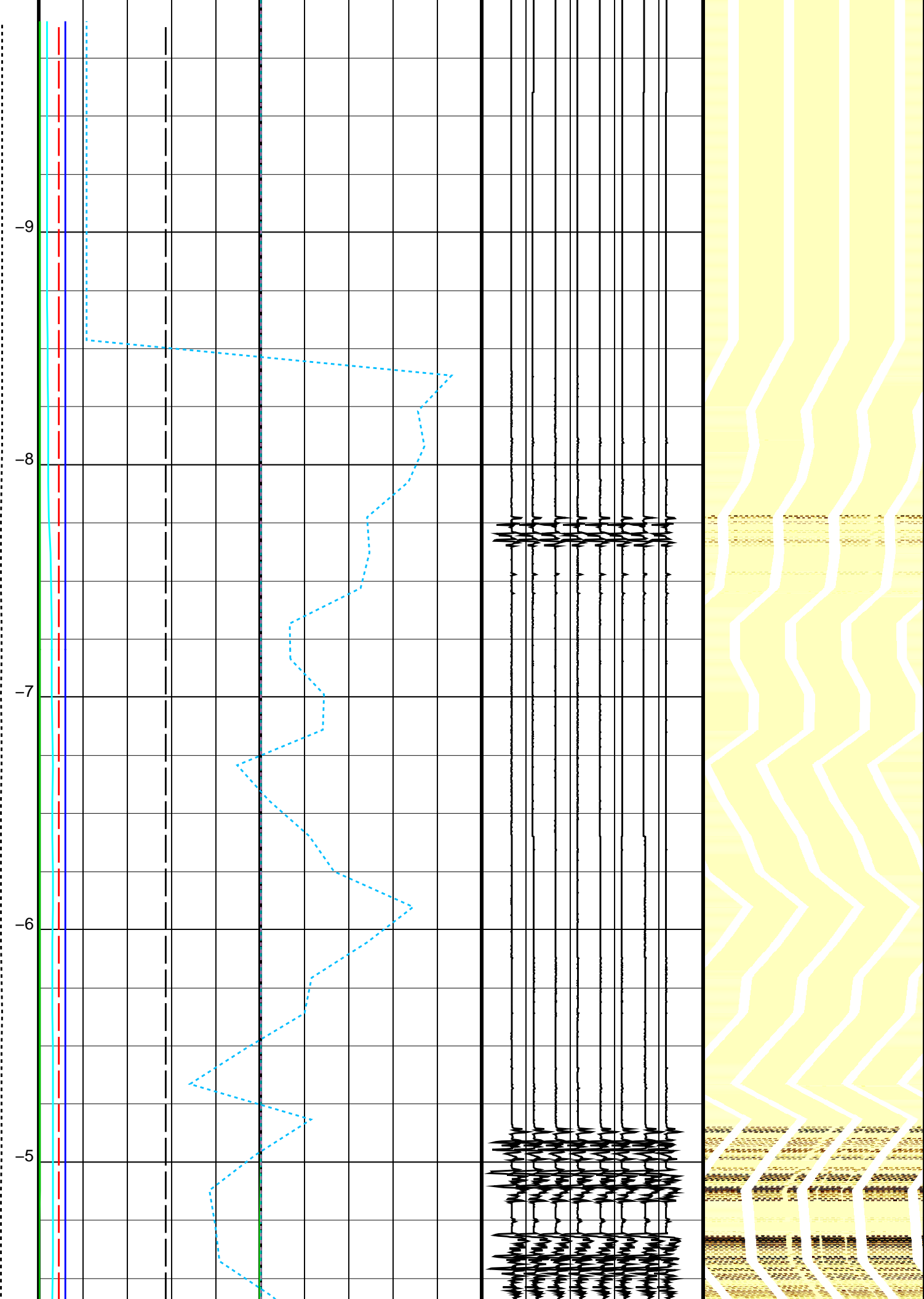
OP System Version: 19C0-187

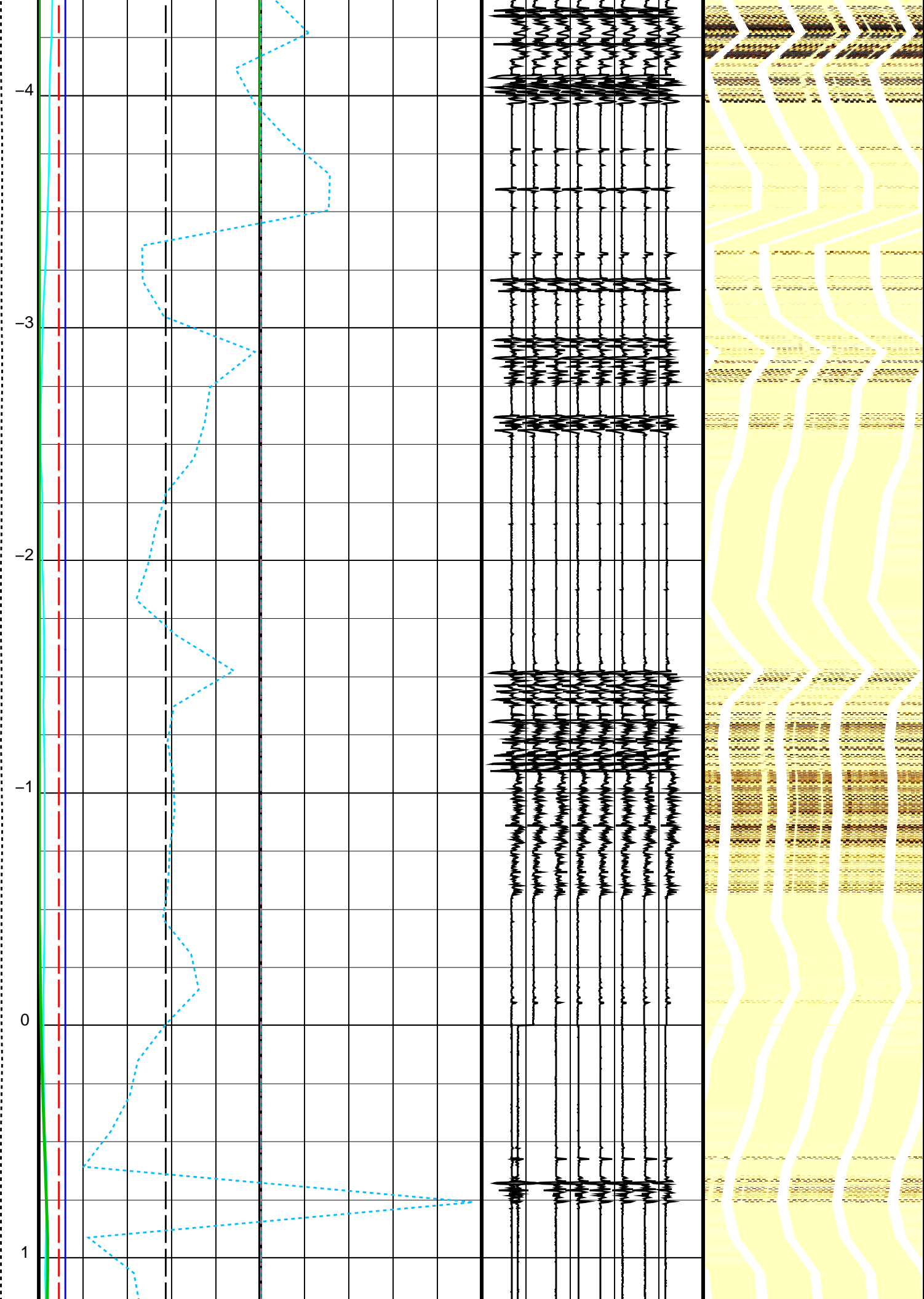
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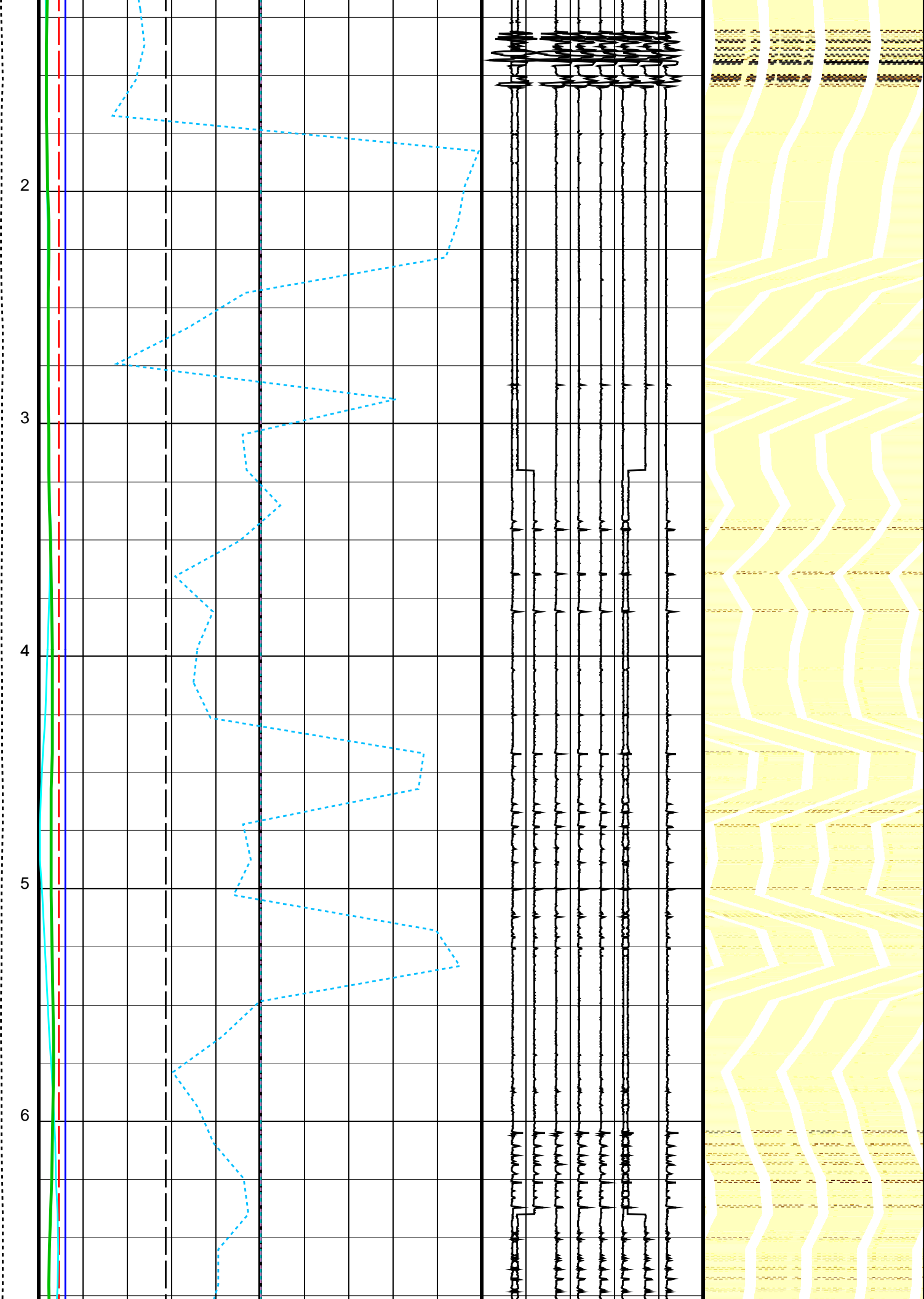
PIP SUMMARY

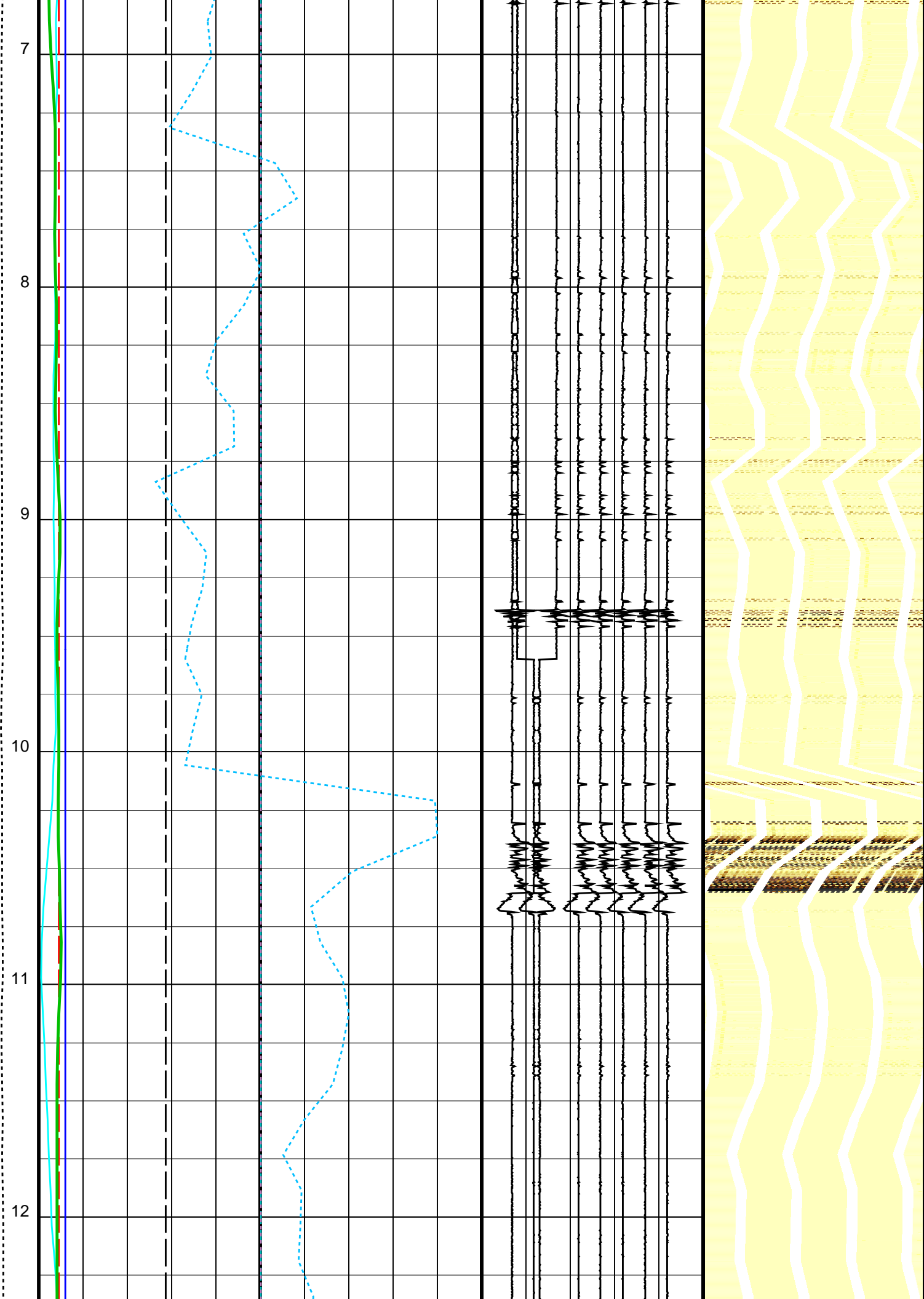
Time Mark Every 60 S

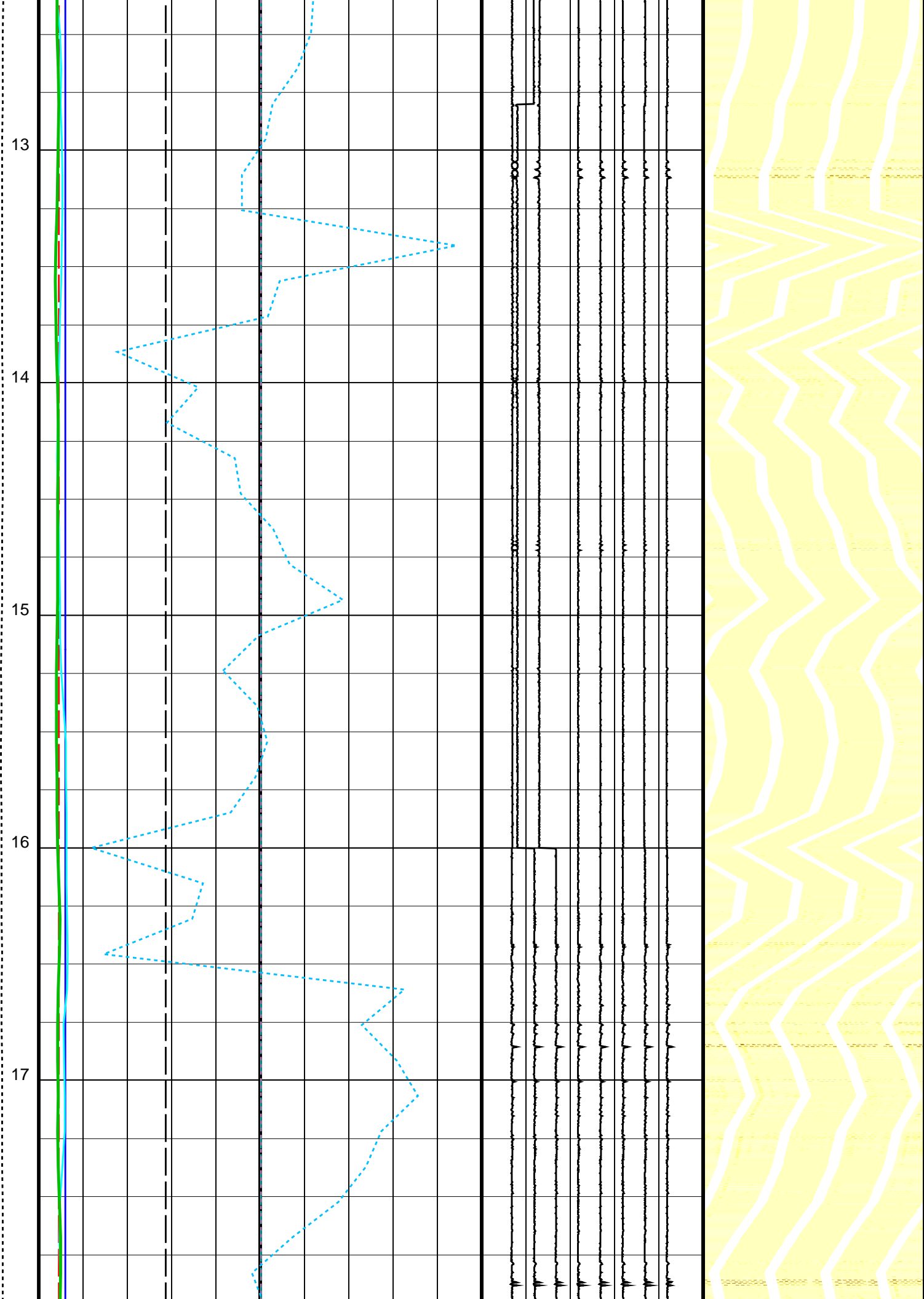
<p>HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100</p>		<p>Data Button 8 - Varies with RBS (U-MEST_RB8) -80 (----) 20</p>				
<p>Relative Bearing (RB_MEST) -40 (DEG) 360</p>		<p>Data Button 7 - Varies with RBS (U-MEST_RB7) -70 (----) 30</p>				
<p>Pad One Azimuth (P1AZ_MEST) -40 (DEG) 360</p>		<p>Data Button 6 - Varies with RBS (U-MEST_RB6) -60 (----) 40</p>				
<p>Hole Azimuth (HAZIM) -40 (DEG) 360</p>		<p>Data Button 5 - Varies with RBS (U-MEST_RB5) -50 (----) 50</p>				
<p>Deviation (DEVIM) 0 (DEG) 10</p>		<p>Data Button 4 - Varies with RBS (U-MEST_RB4) -40 (----) 60</p>		3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203  <p>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)</p>		
<p>Caliper 2 (C2) 0 (IN) 20</p>		<p>Data Button 3 - Varies with RBS (U-MEST_RB3) -30 (----) 70</p>		3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203  <p>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)</p>		
<p>Caliper 1 (C1) 0 (IN) 20</p>		<p>EMEX Intensity (EI) 0 (AMPS) 10</p>		3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203  <p>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS) (----)</p>		
<p>Tension (TENS) (LBF) 0 5000</p>		<p>Bit Size (BS) 0 (IN) 20</p>		<p>EMEX Voltage (EV) 0 (V) 50</p>	<p>Data Button 1 - Varies with RBS (U-MEST_RB1) -10 (----) 90</p>	3.9610 4.5059 4.9419 5.2688 5.4868 5.7047 5.8137 6.0317 6.2497 6.3586 6.5766 6.7946 7.0125 7.3395 7.6665 8.3203  <p>MEST_PADA (U-MEST_RESISTIVITY_PADA_DS) (----)</p>

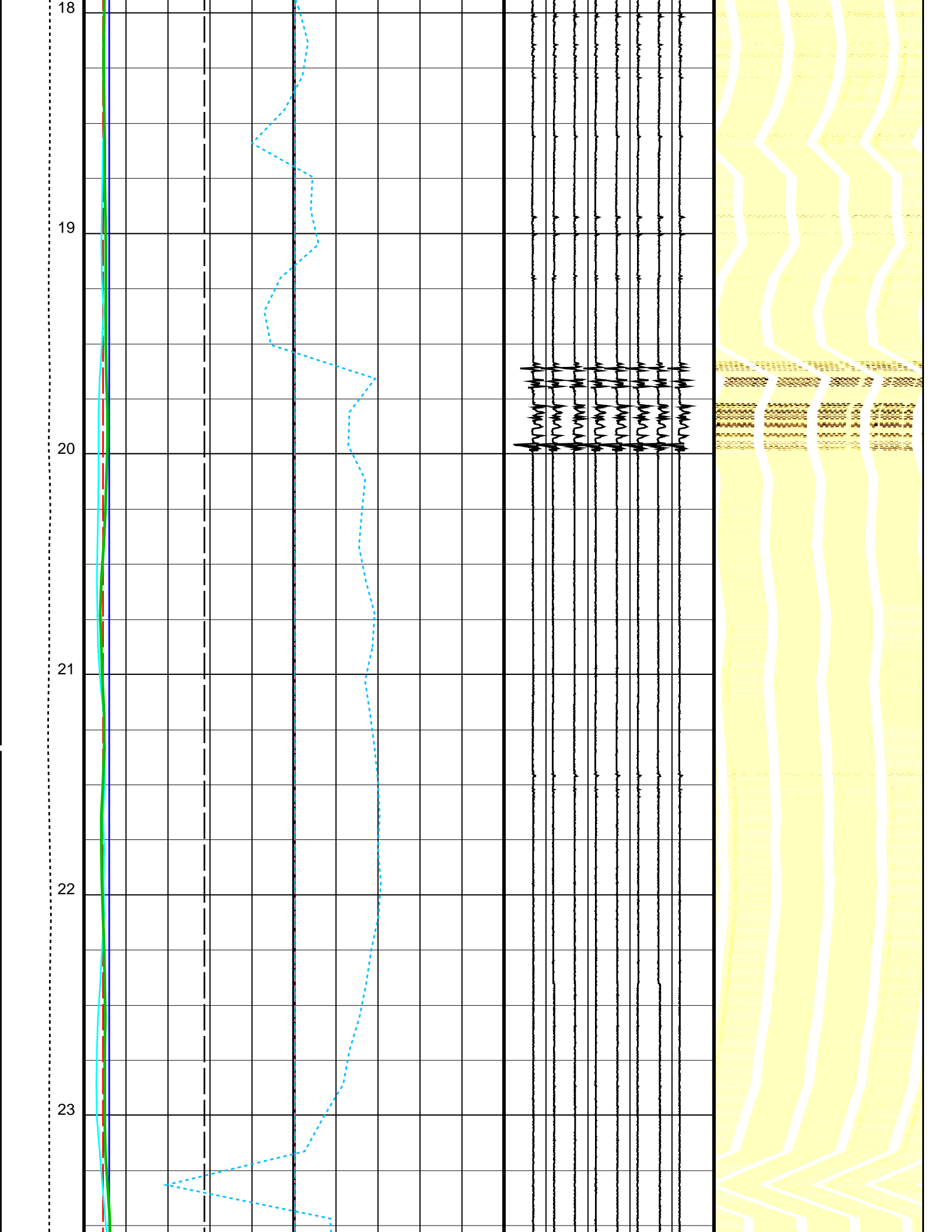


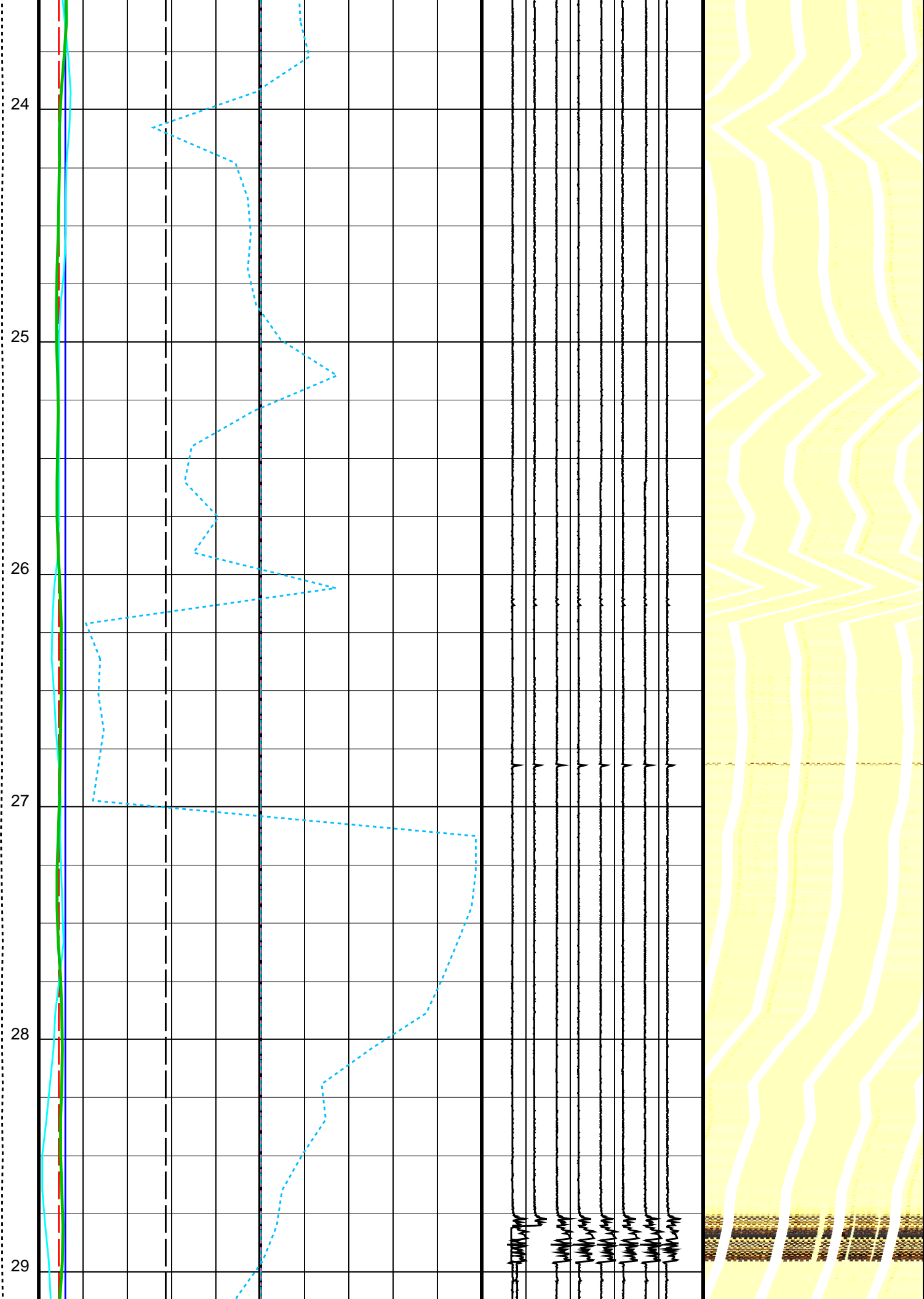


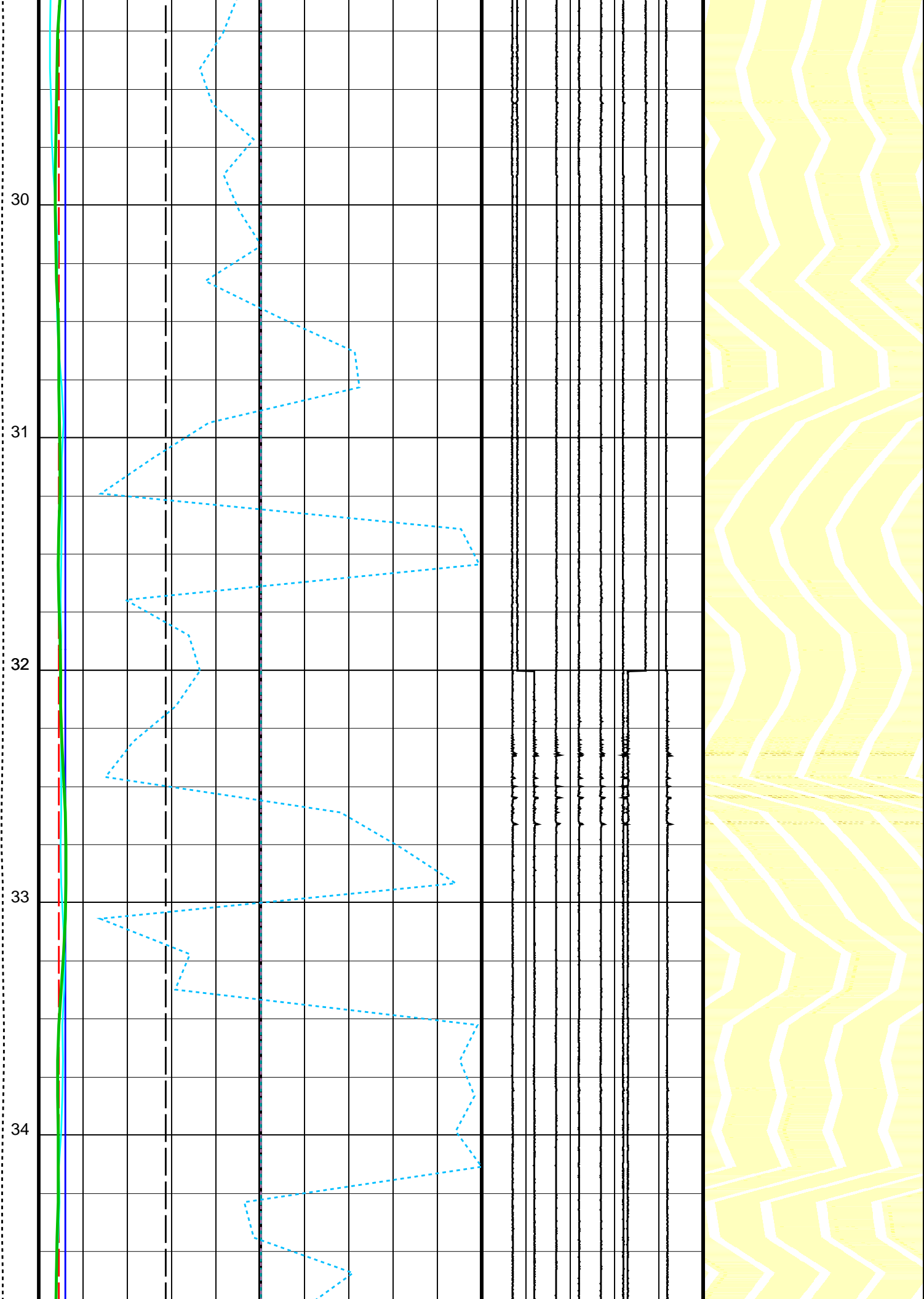


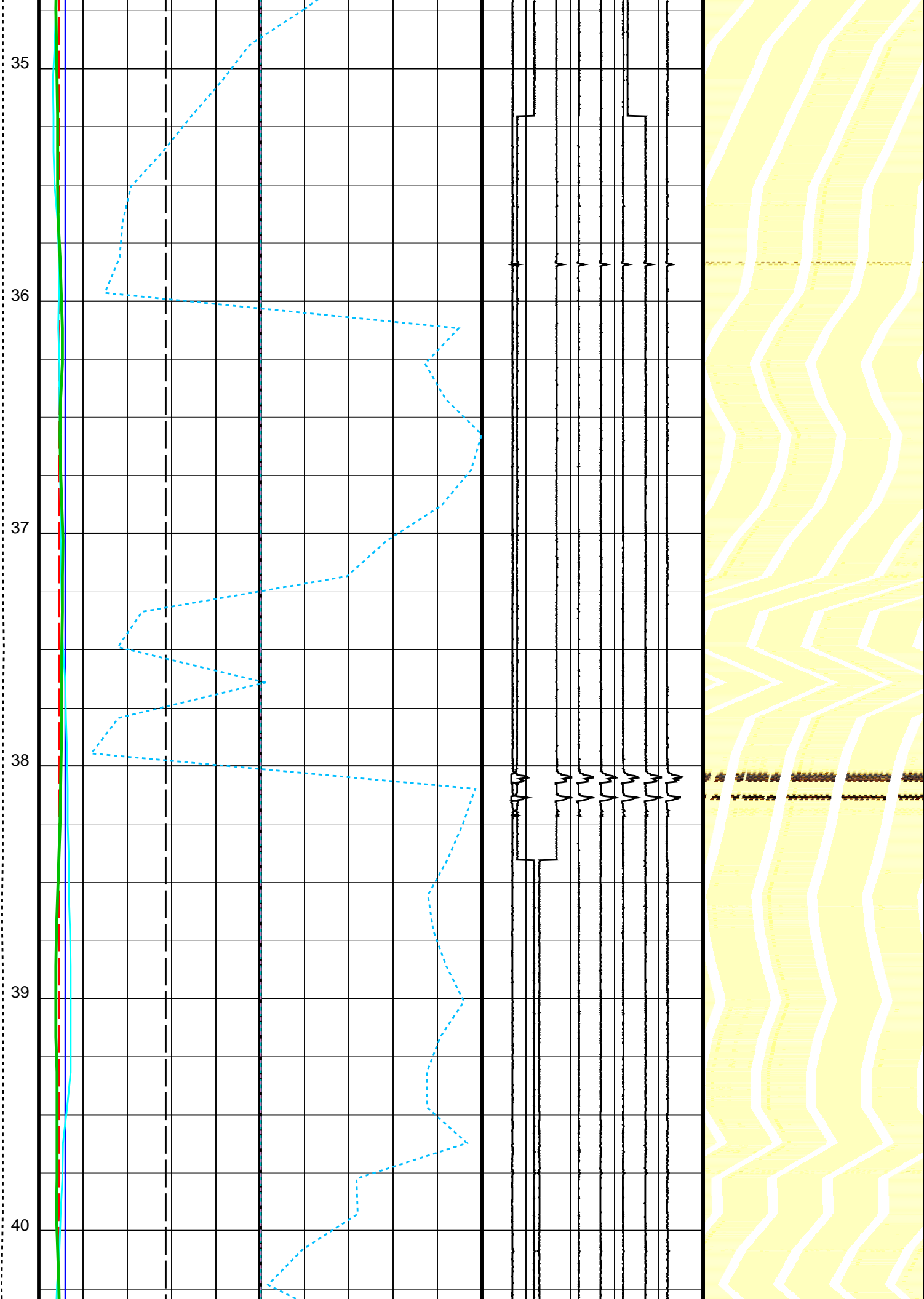


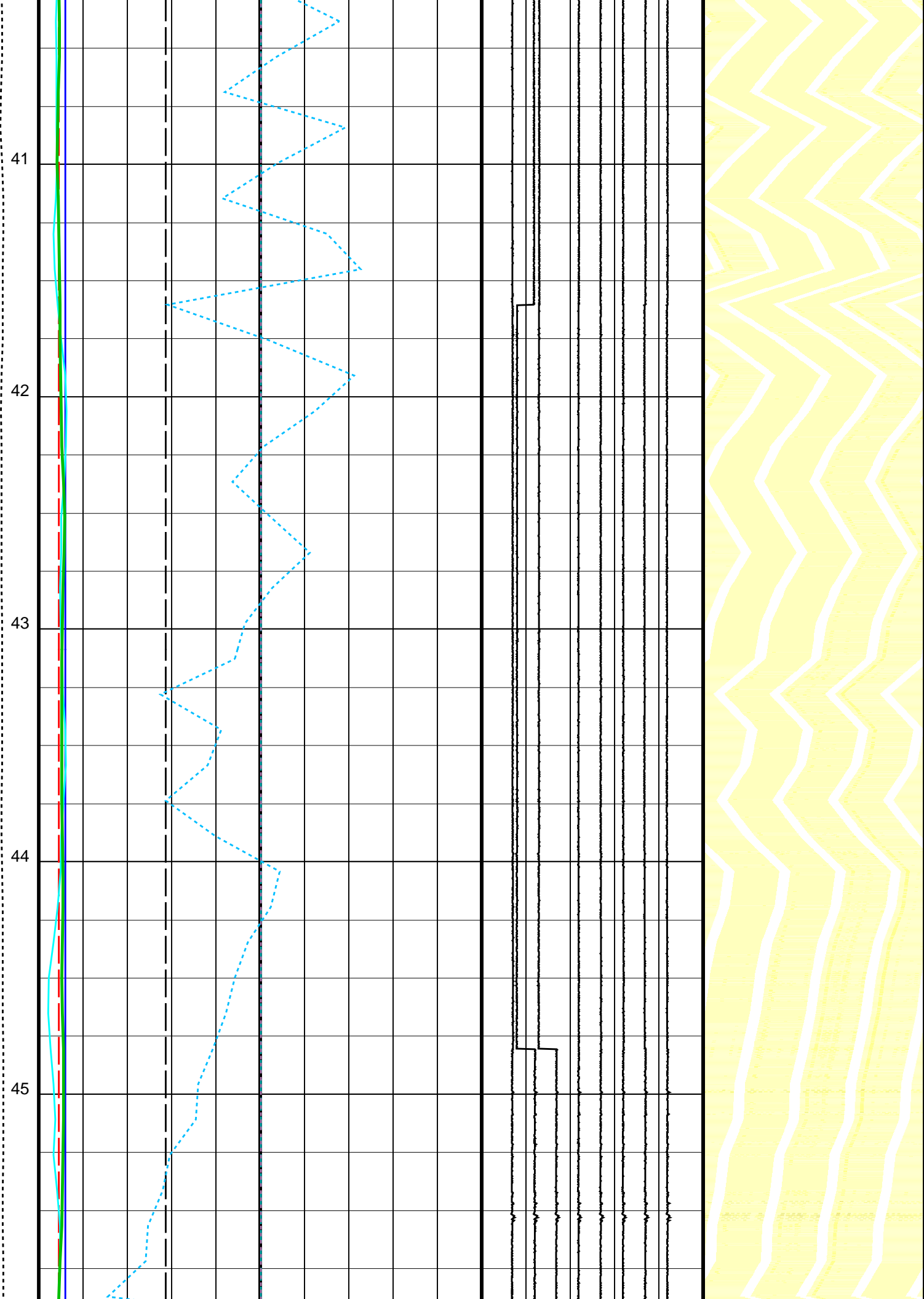


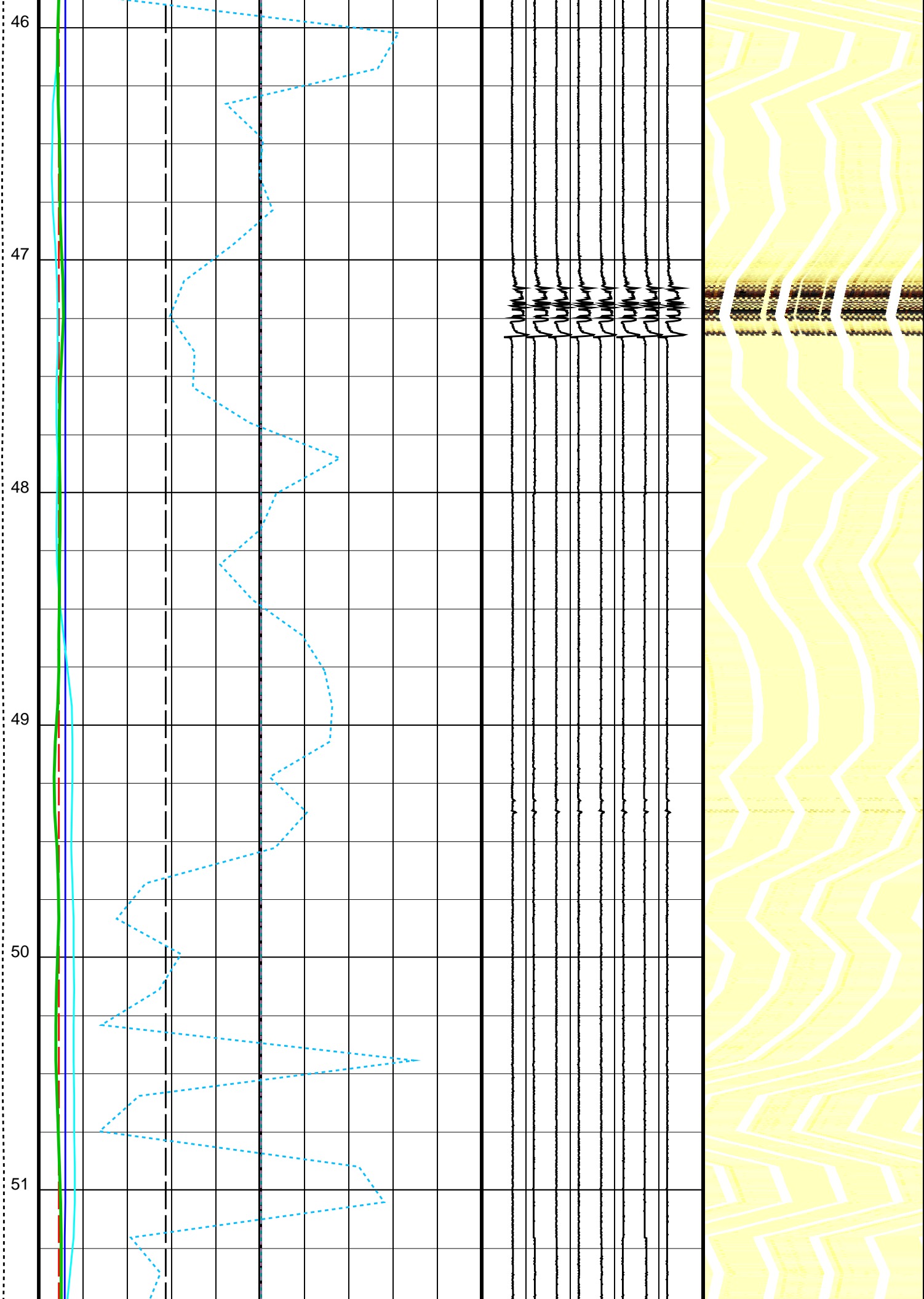


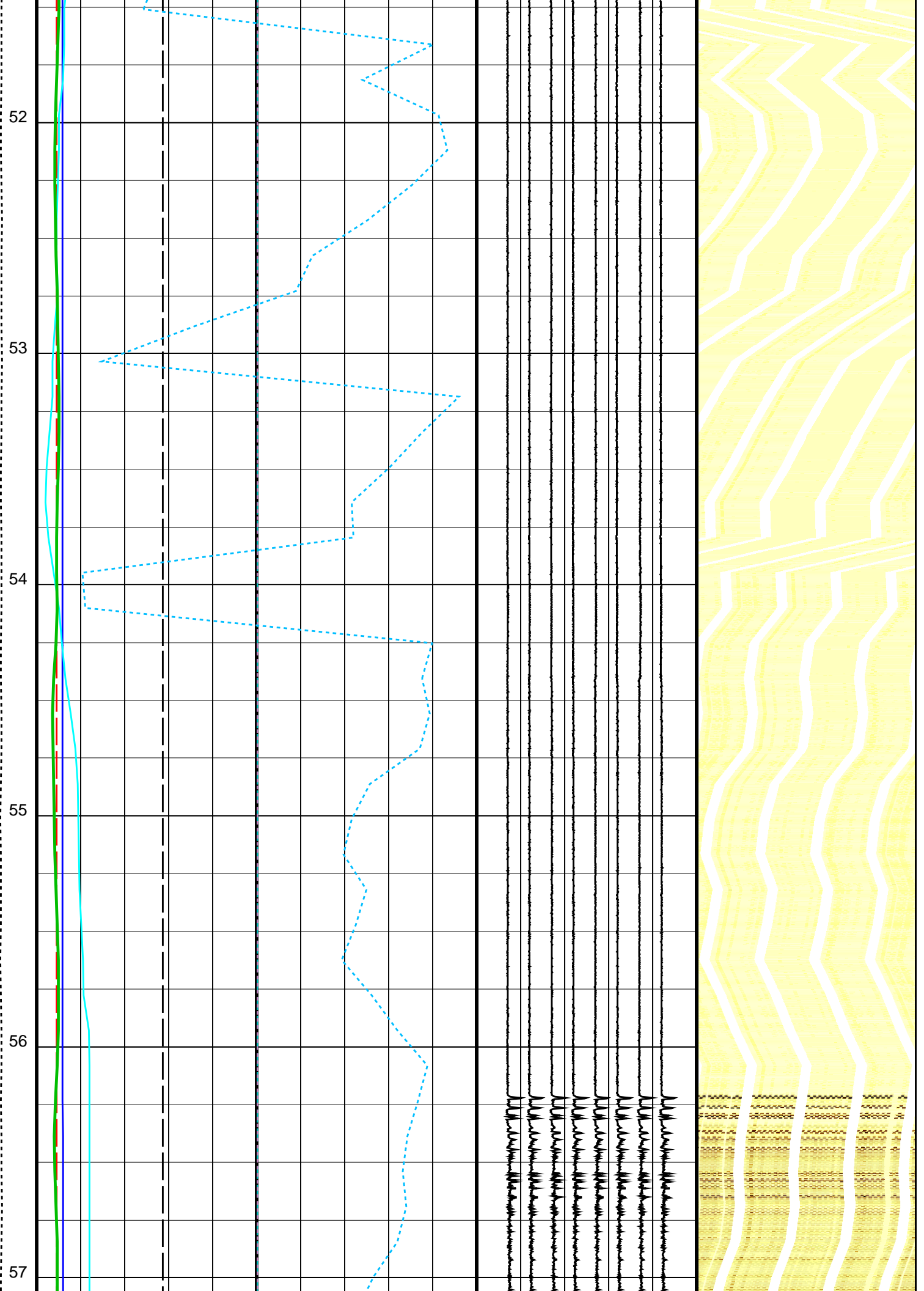


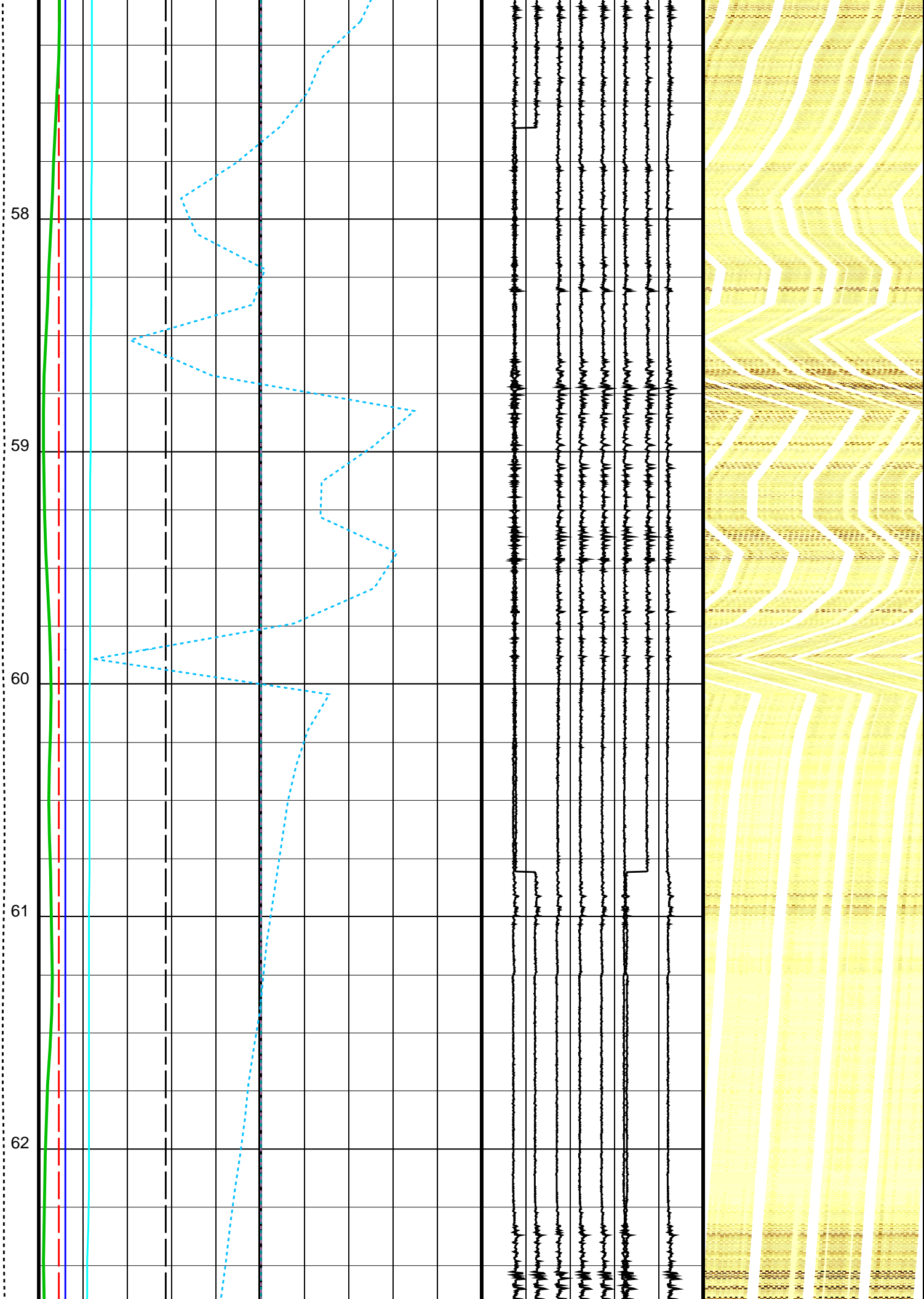


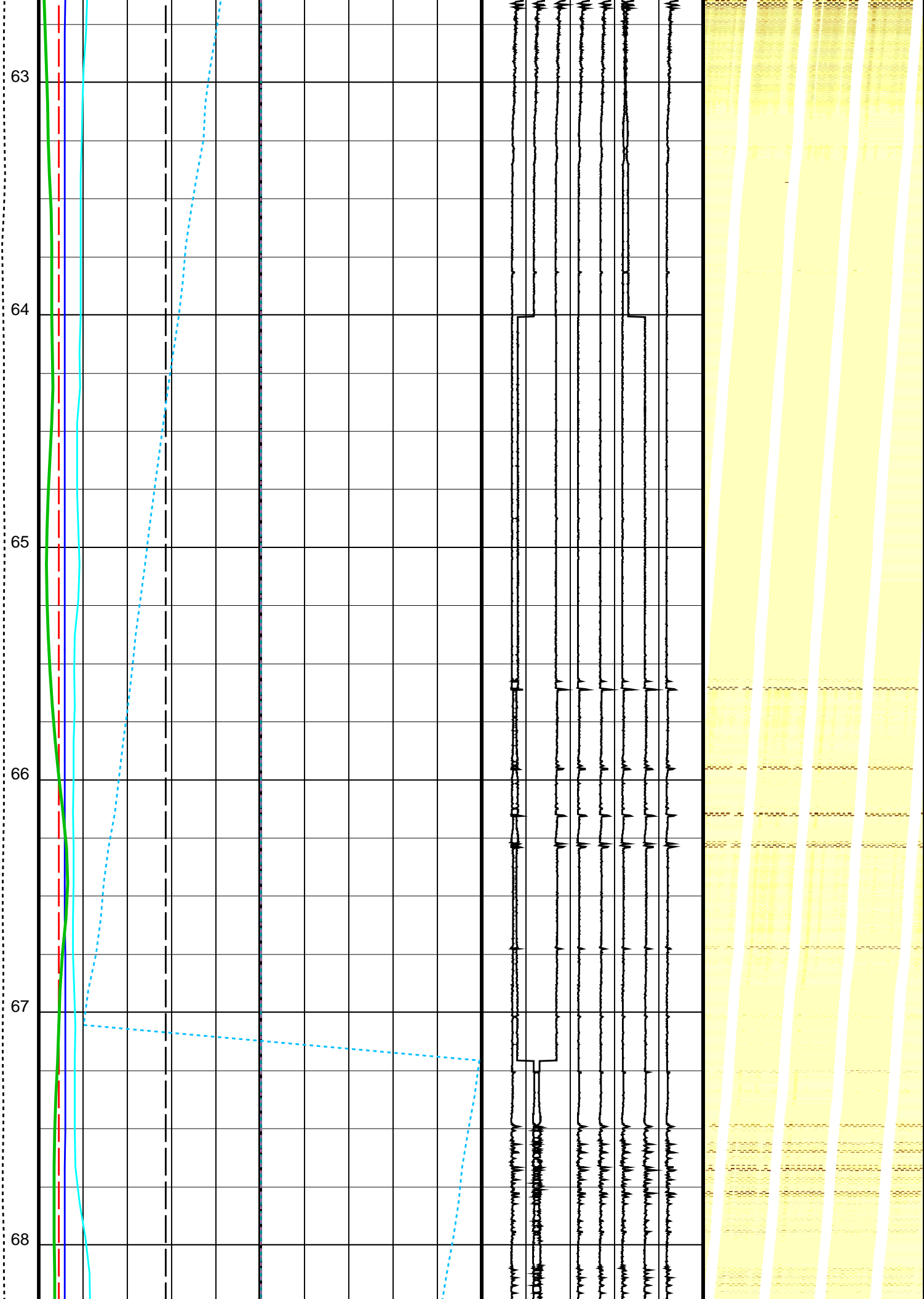


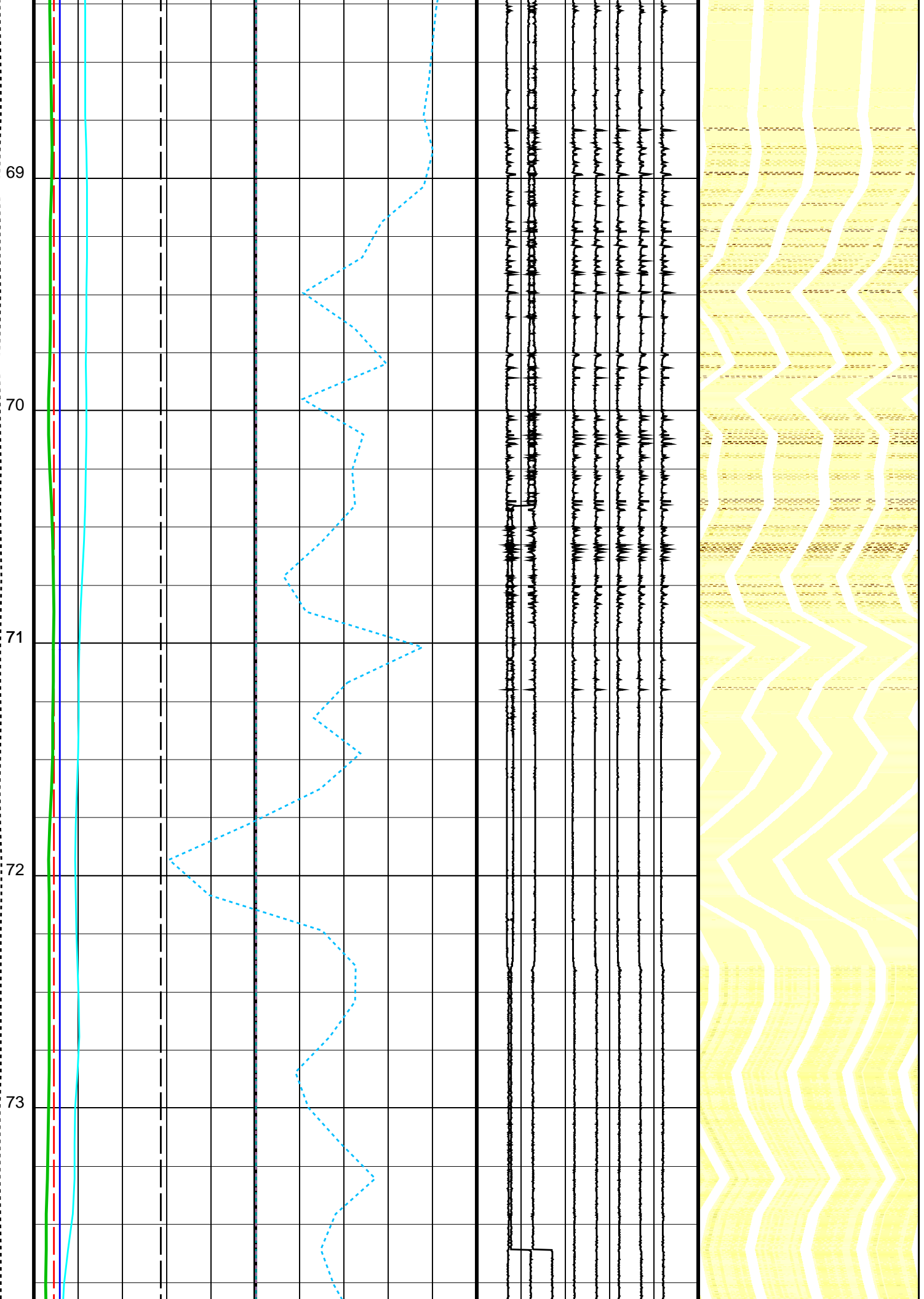




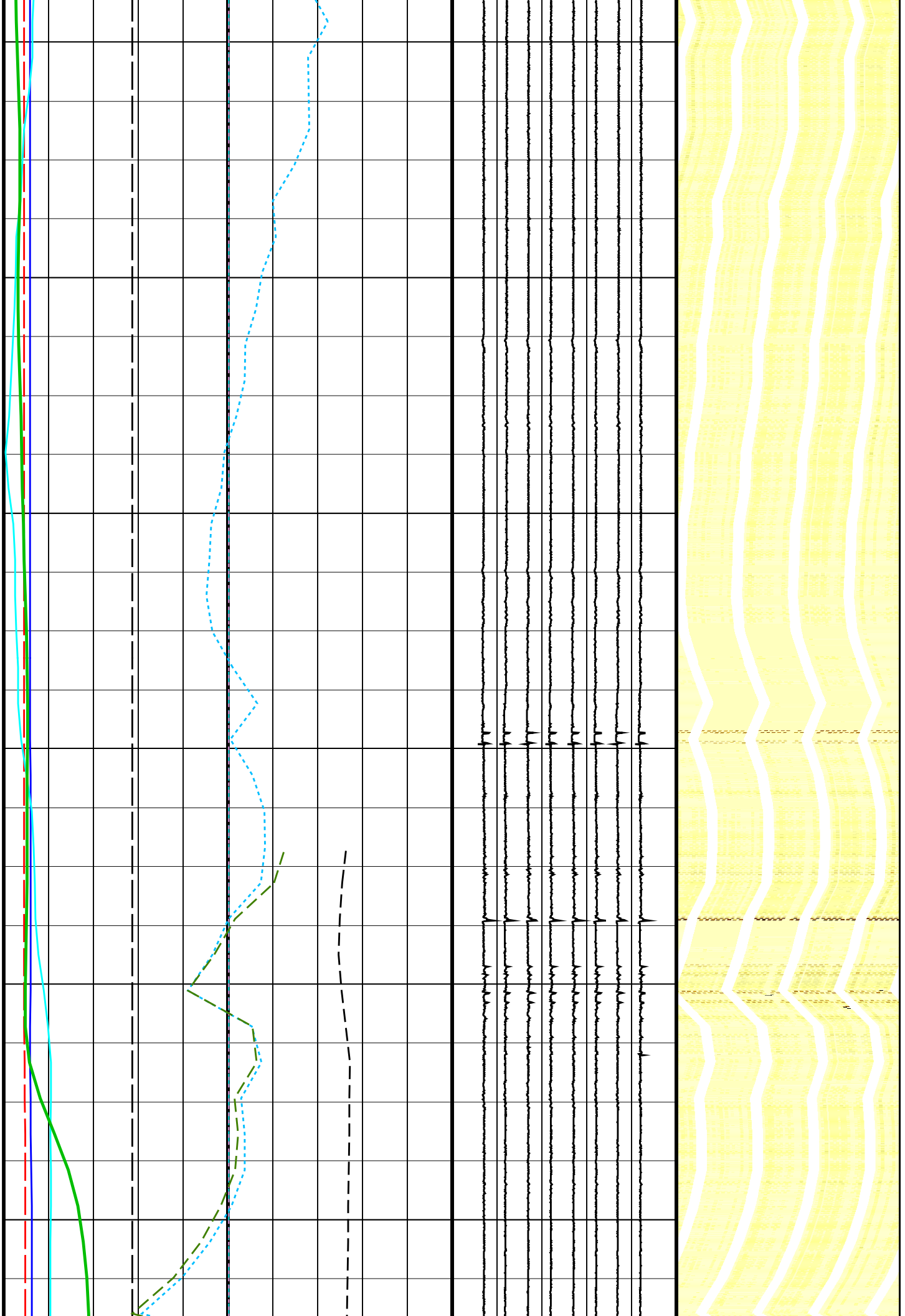


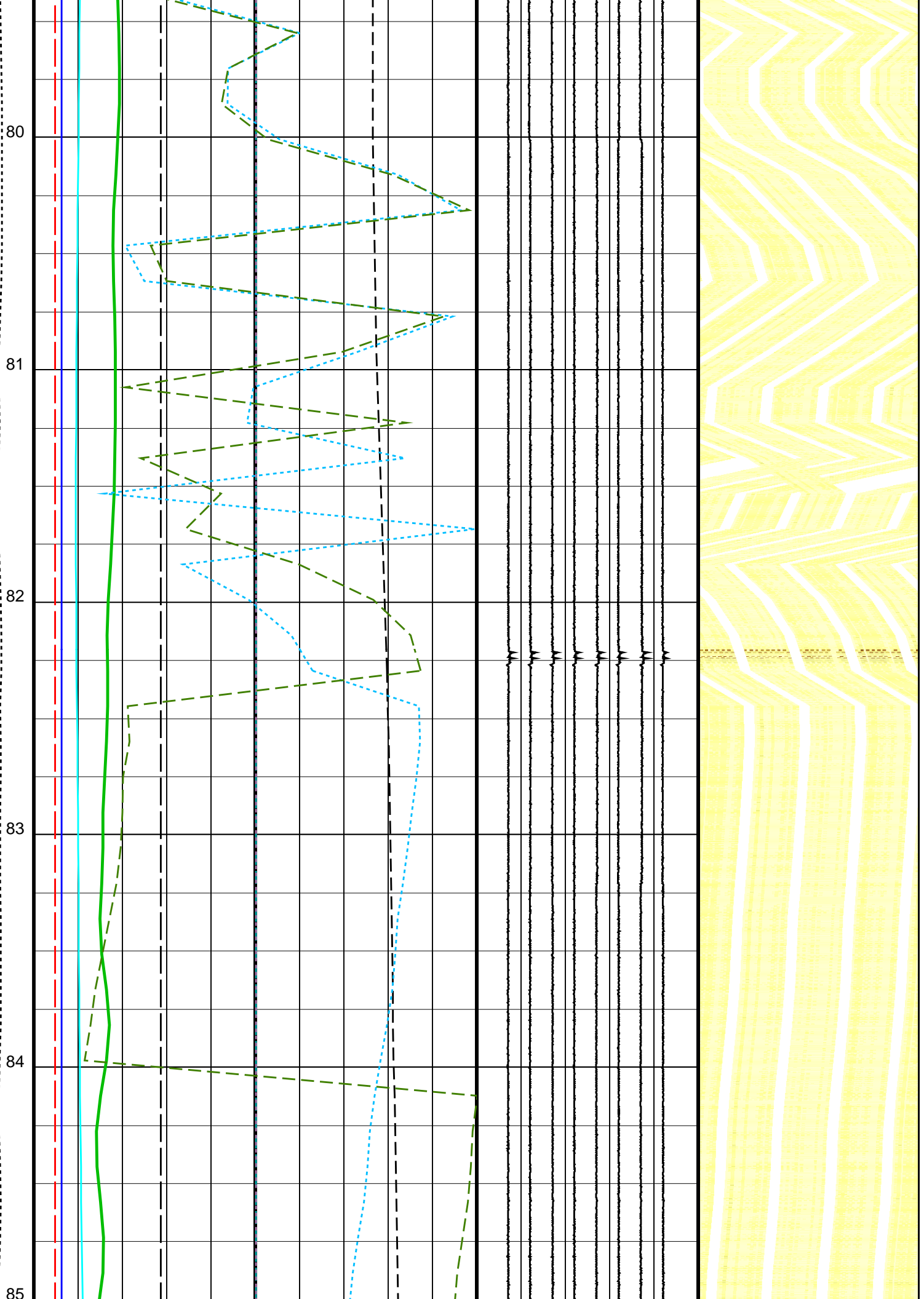


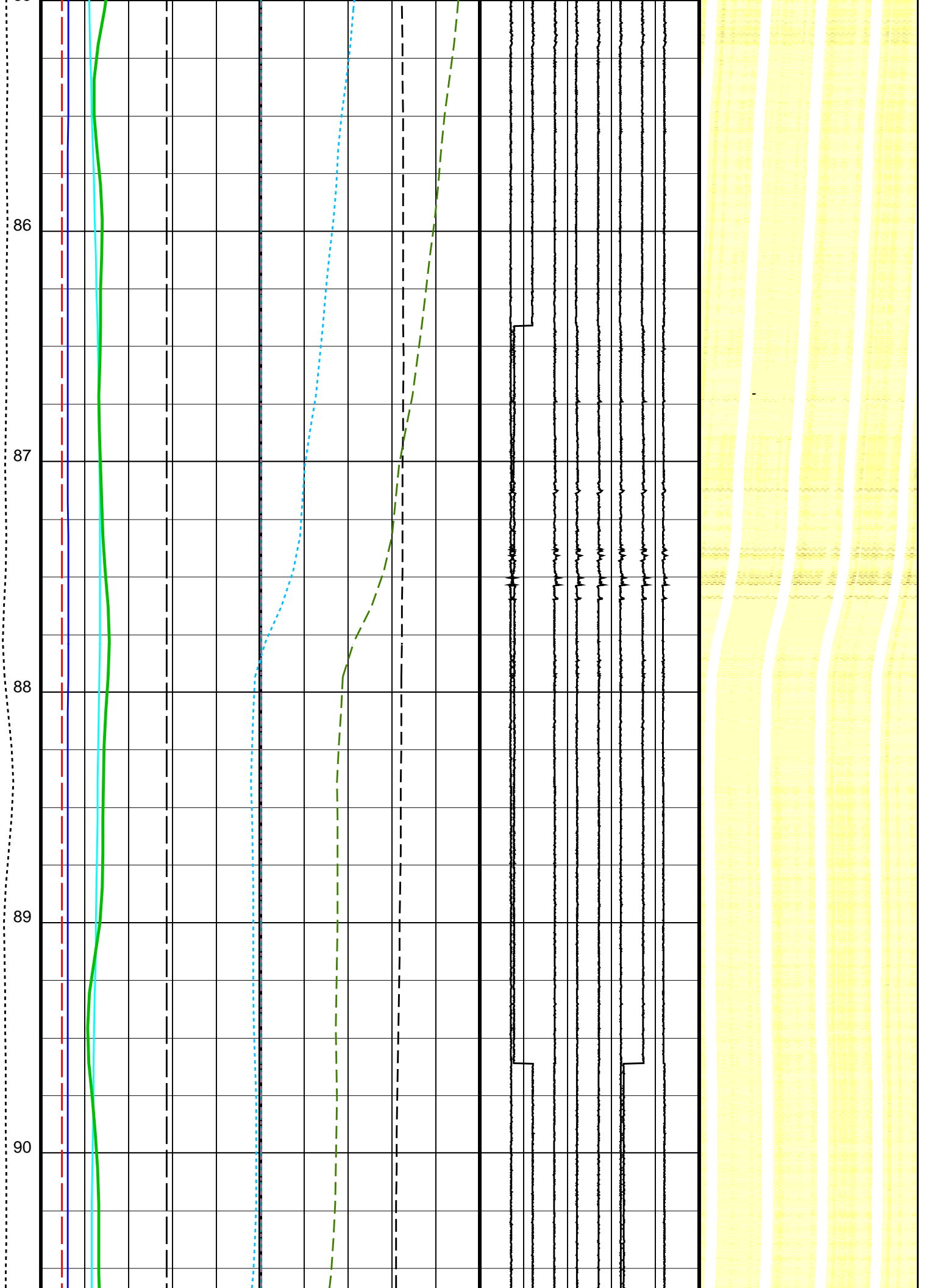


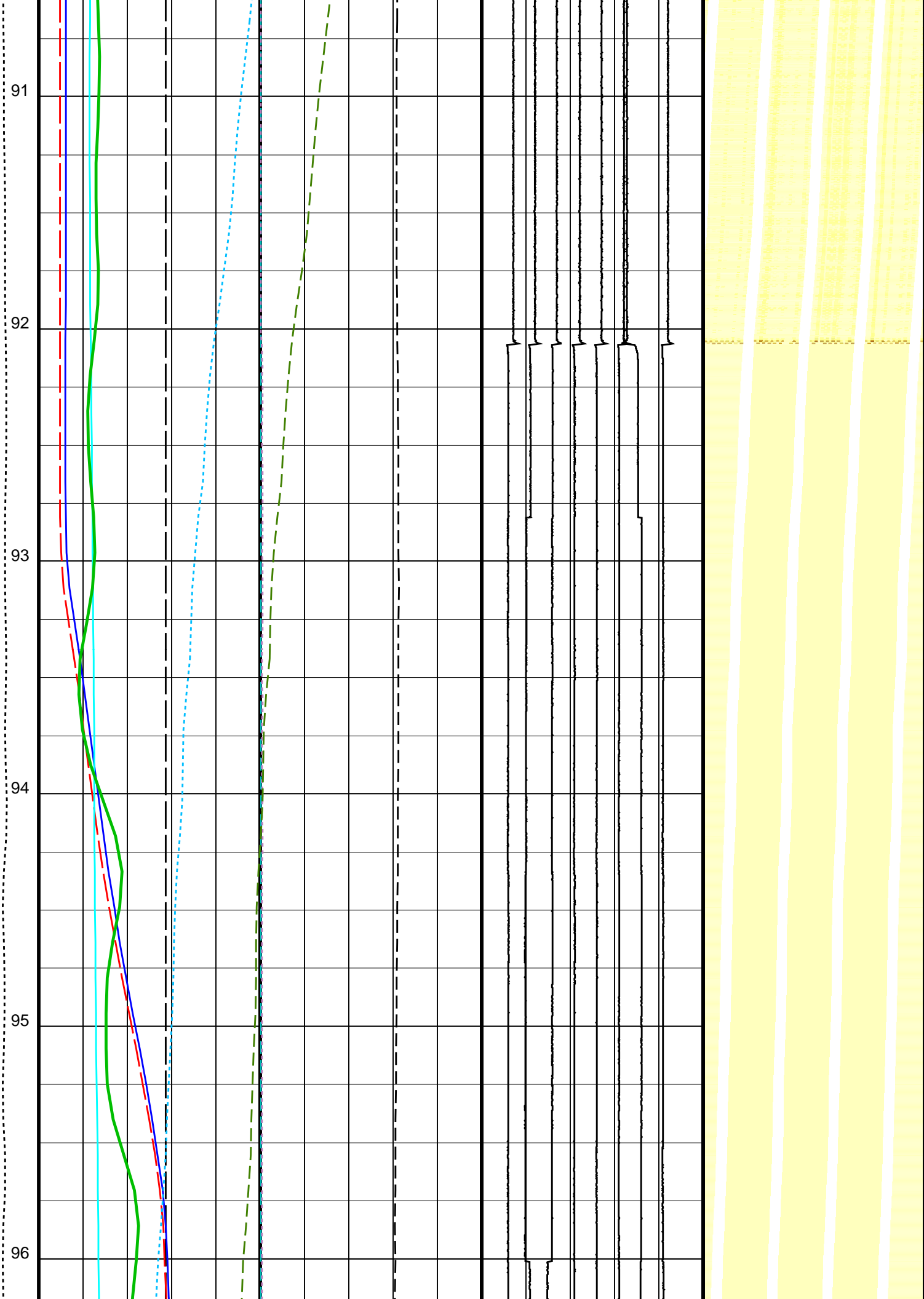


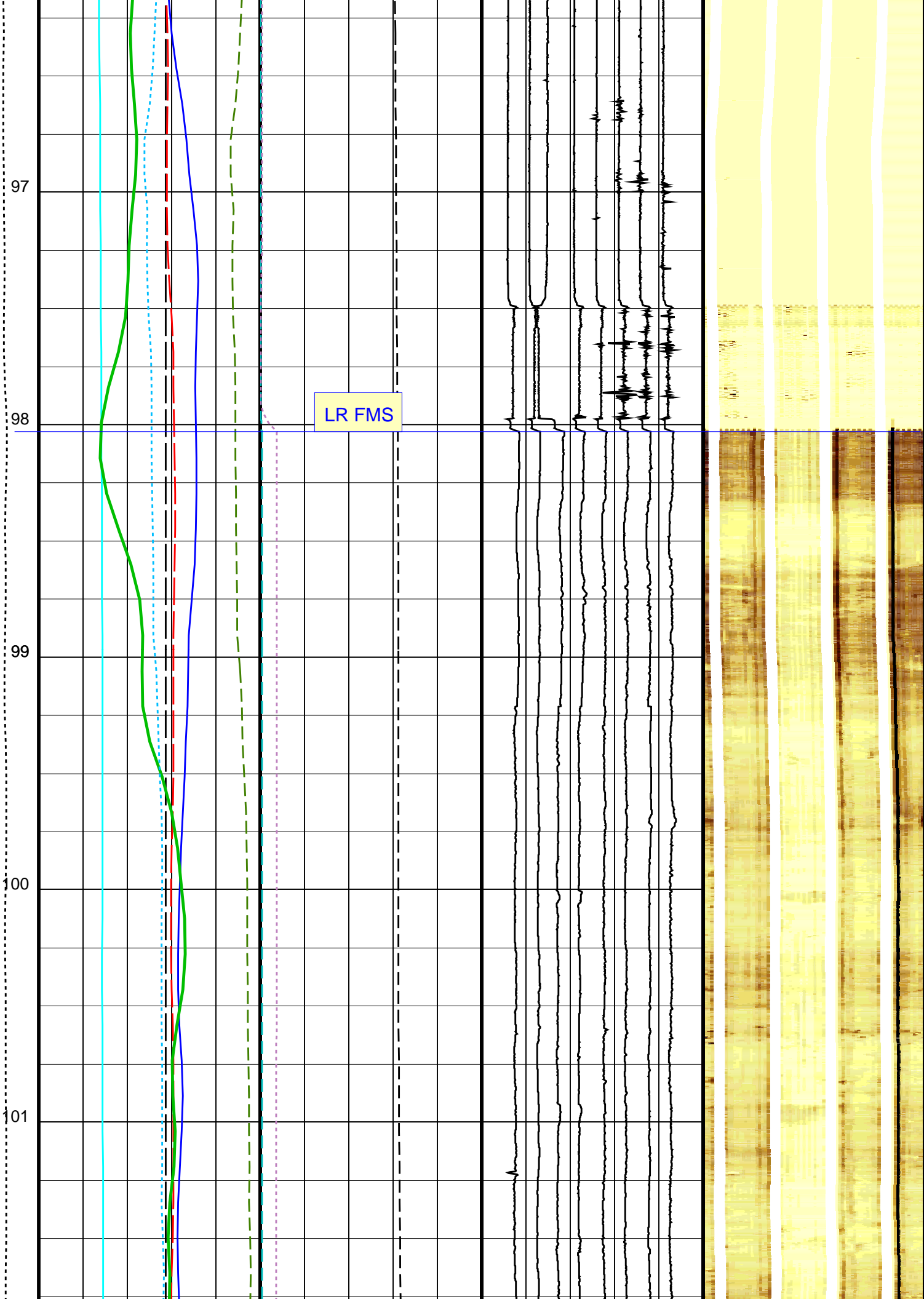
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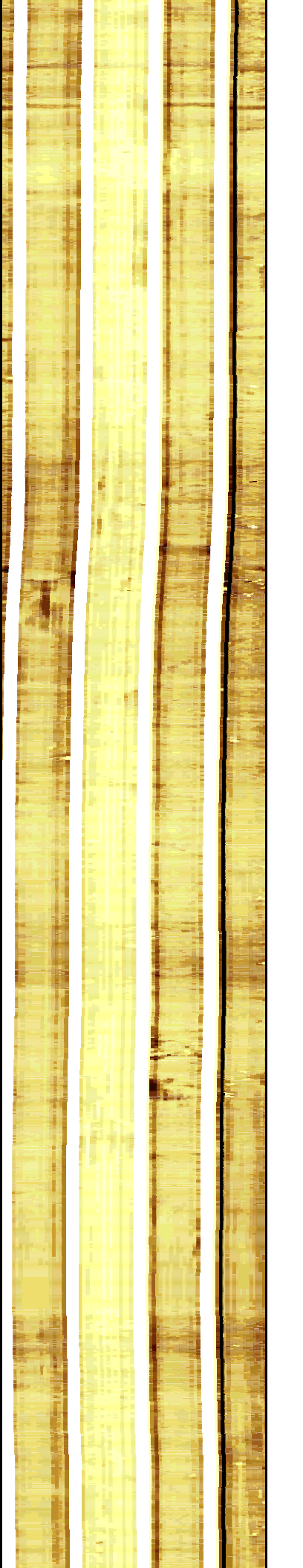
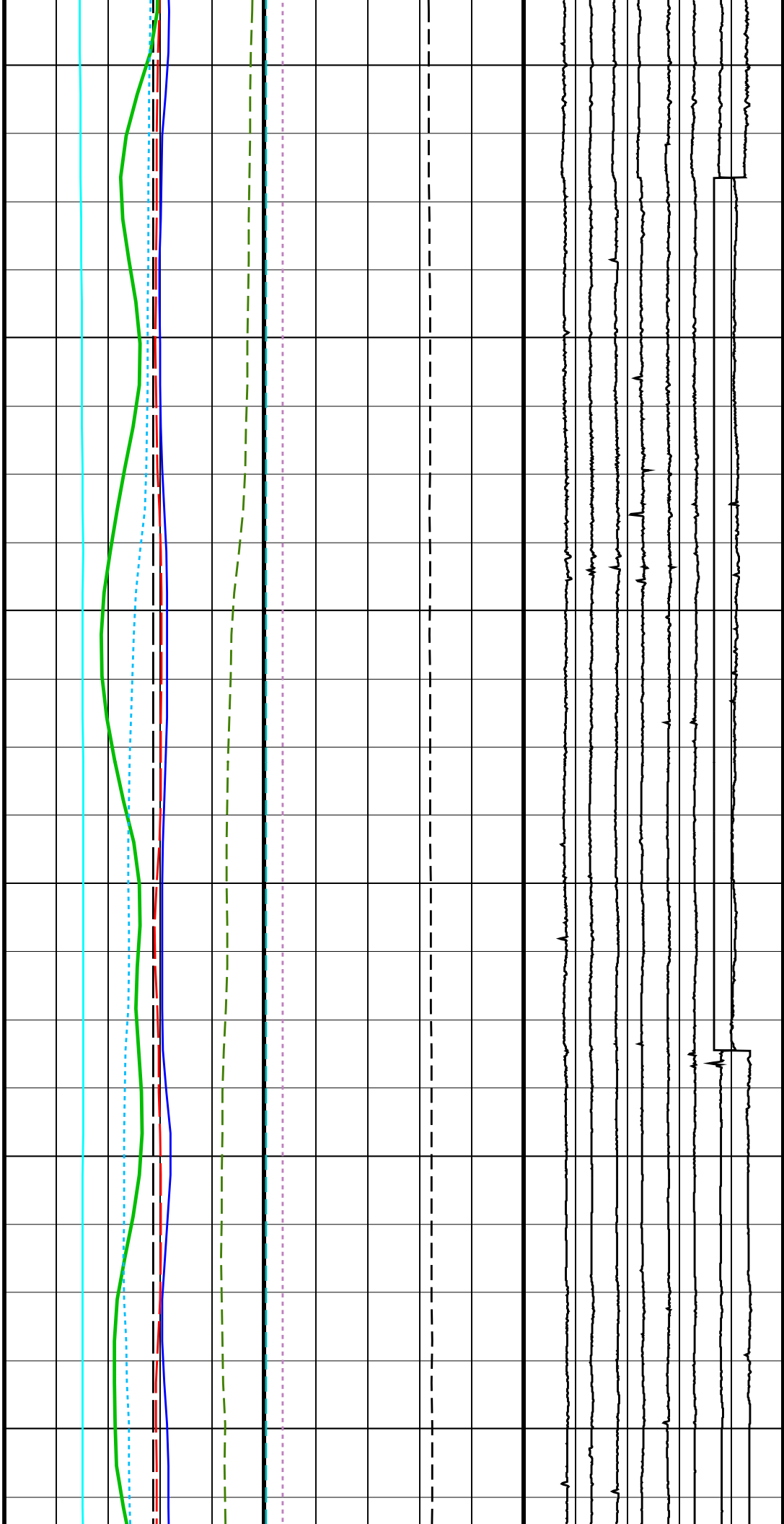




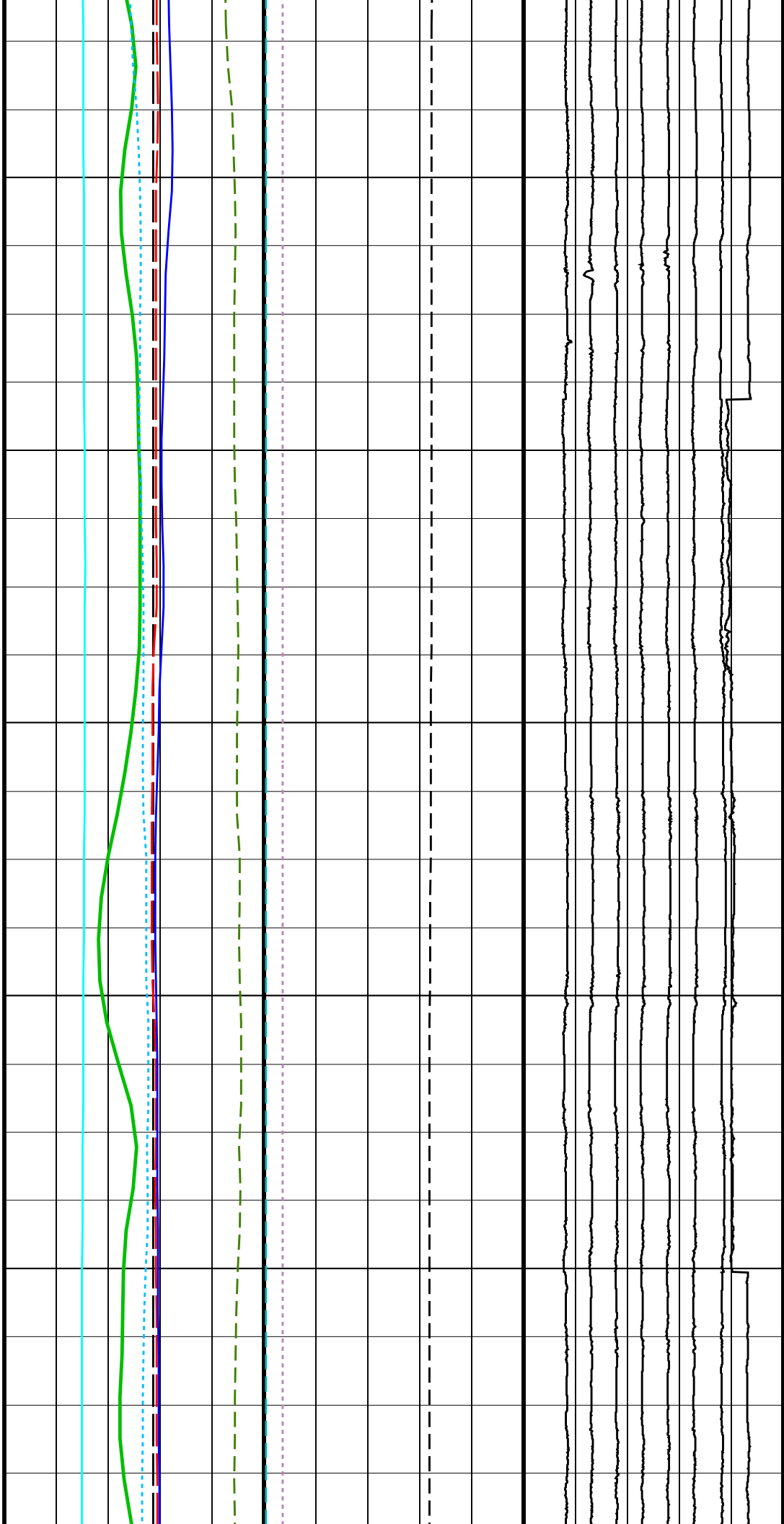


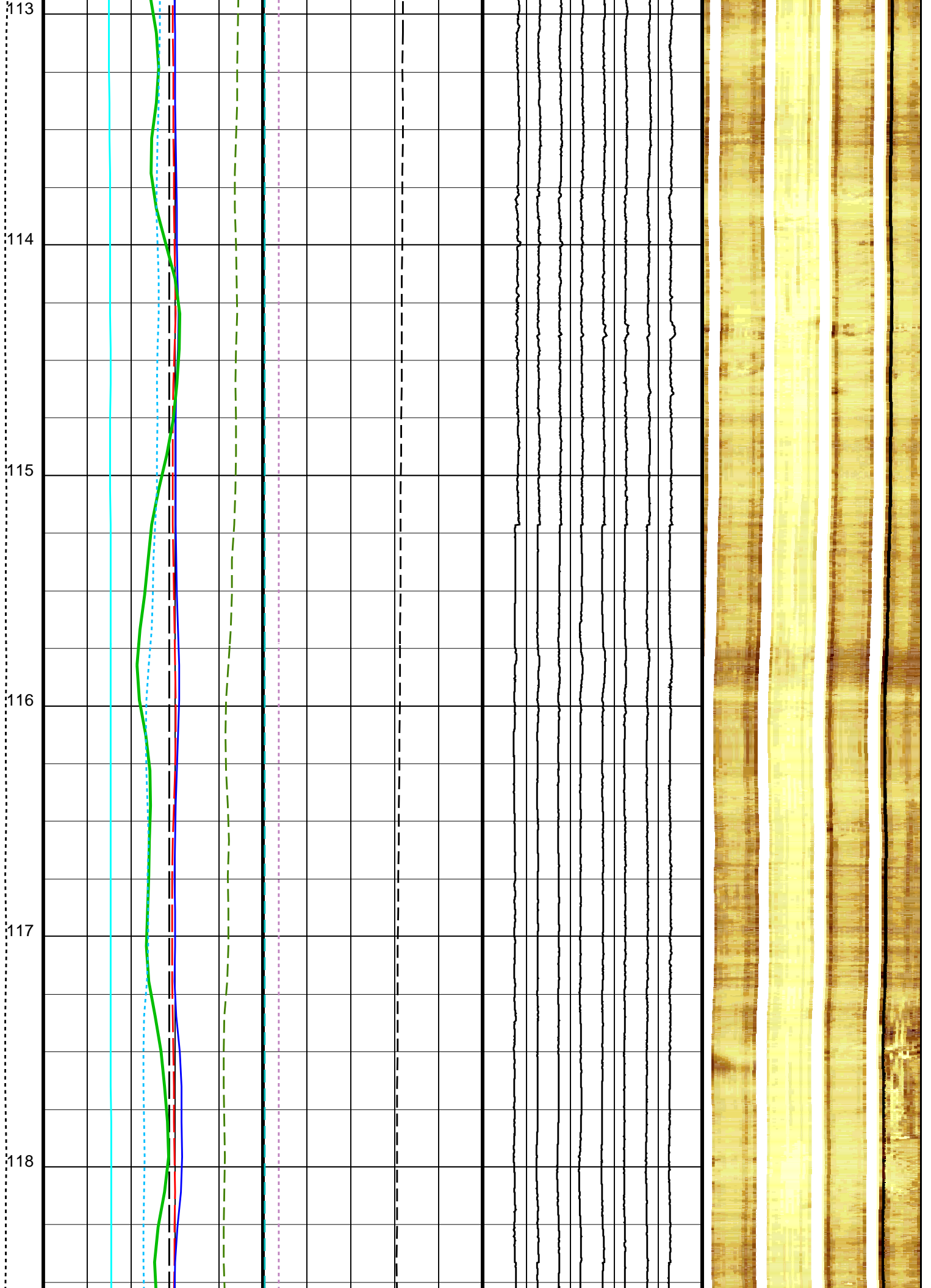


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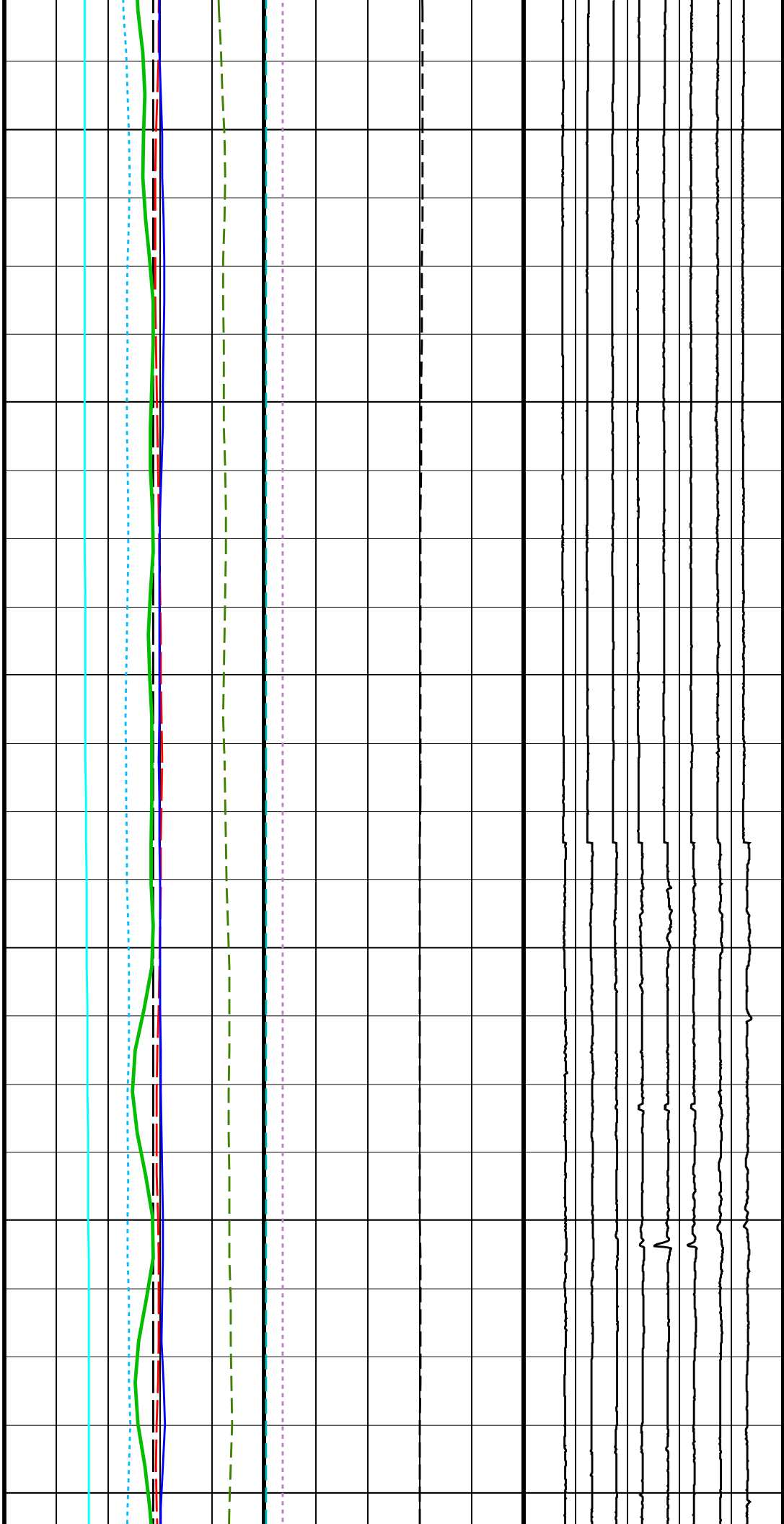


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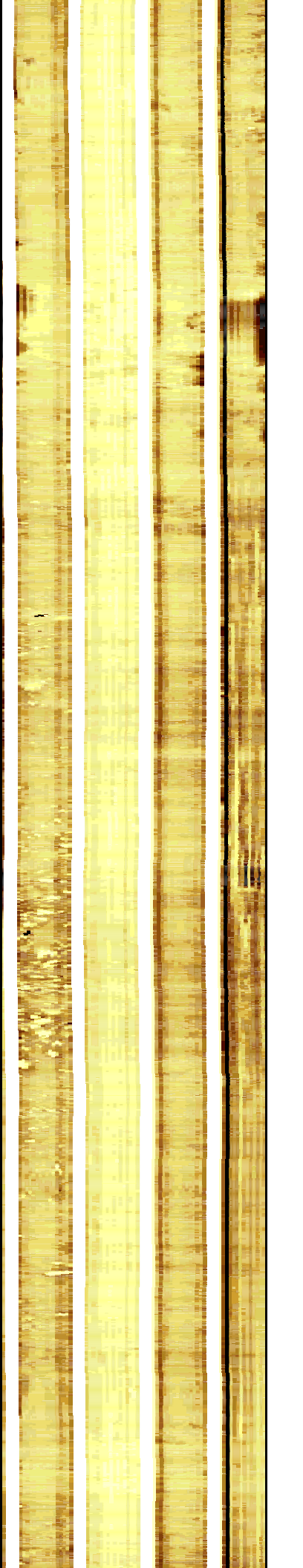
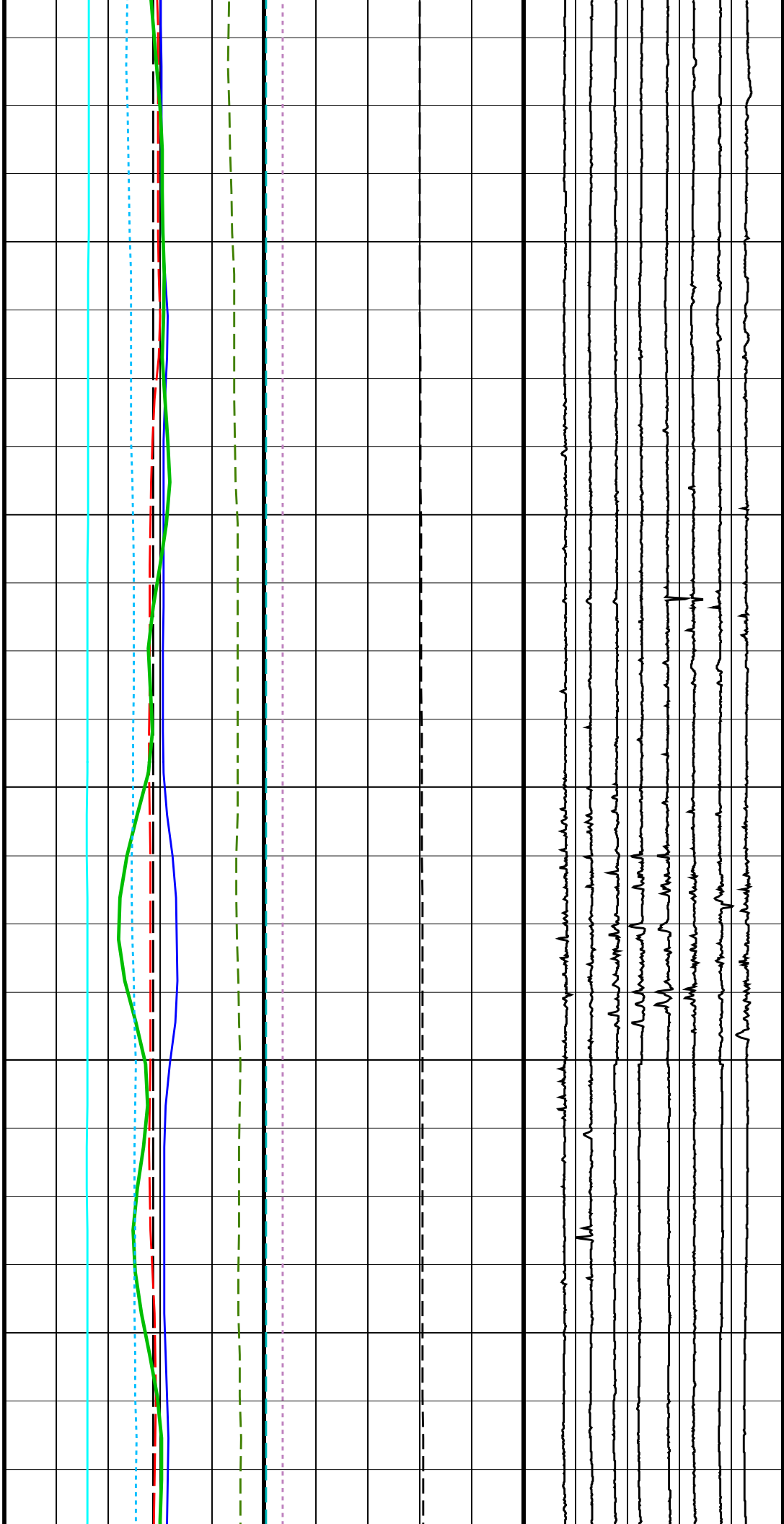
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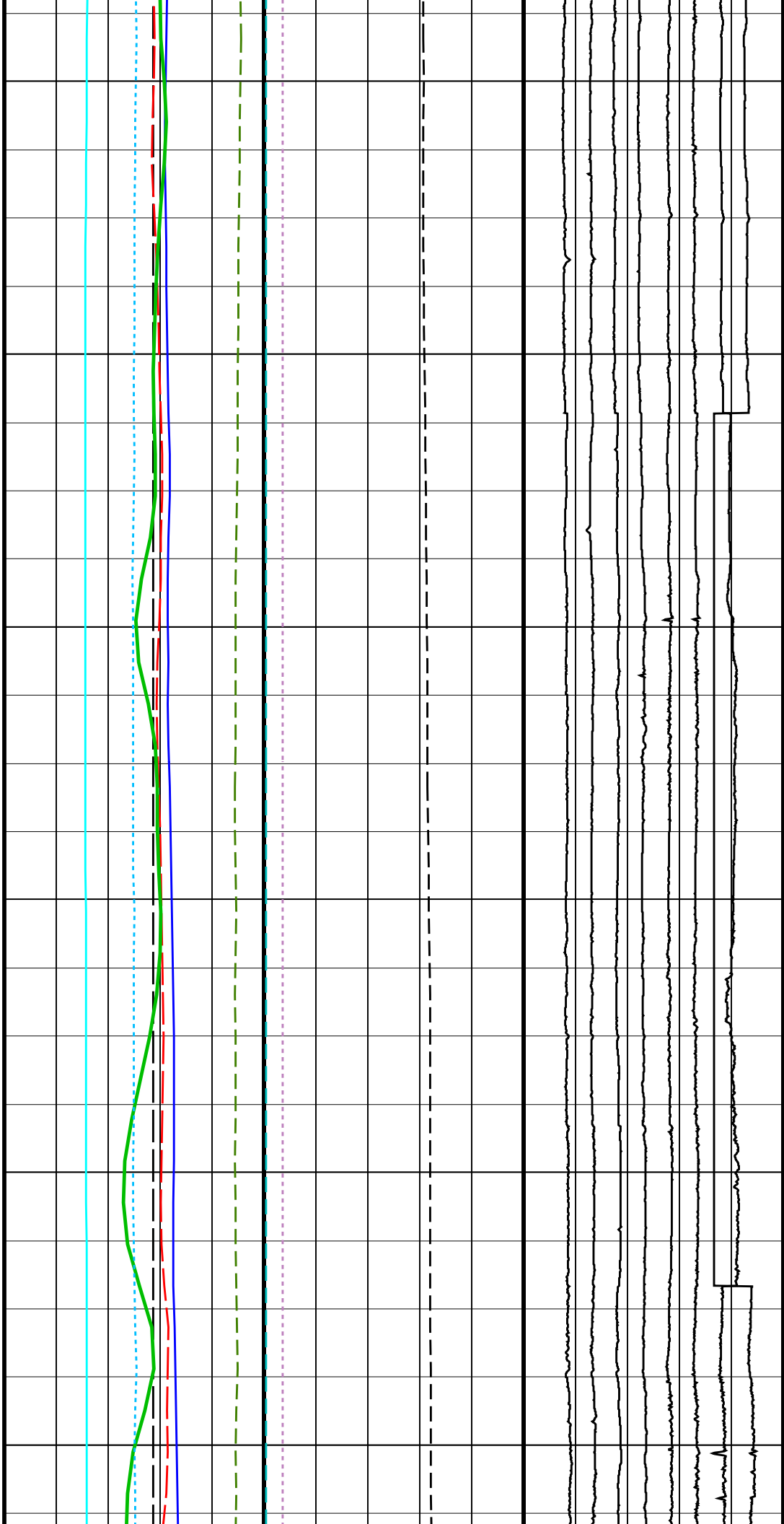
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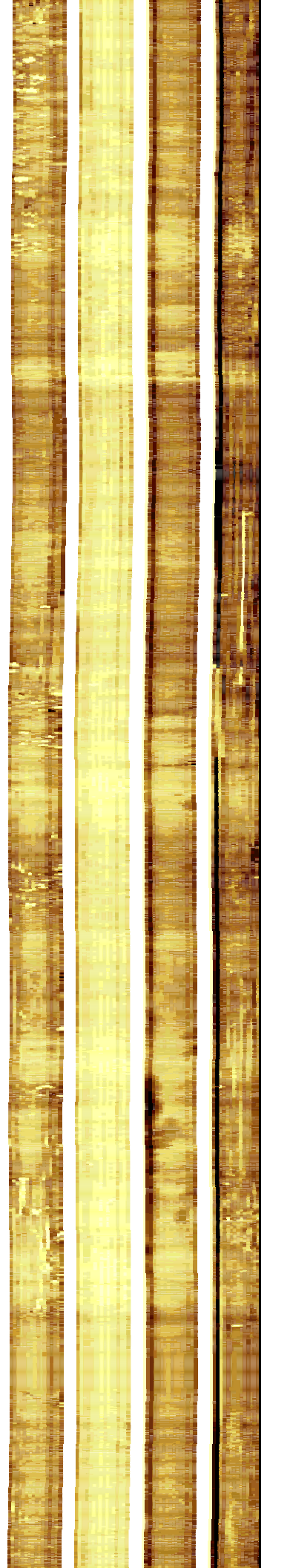
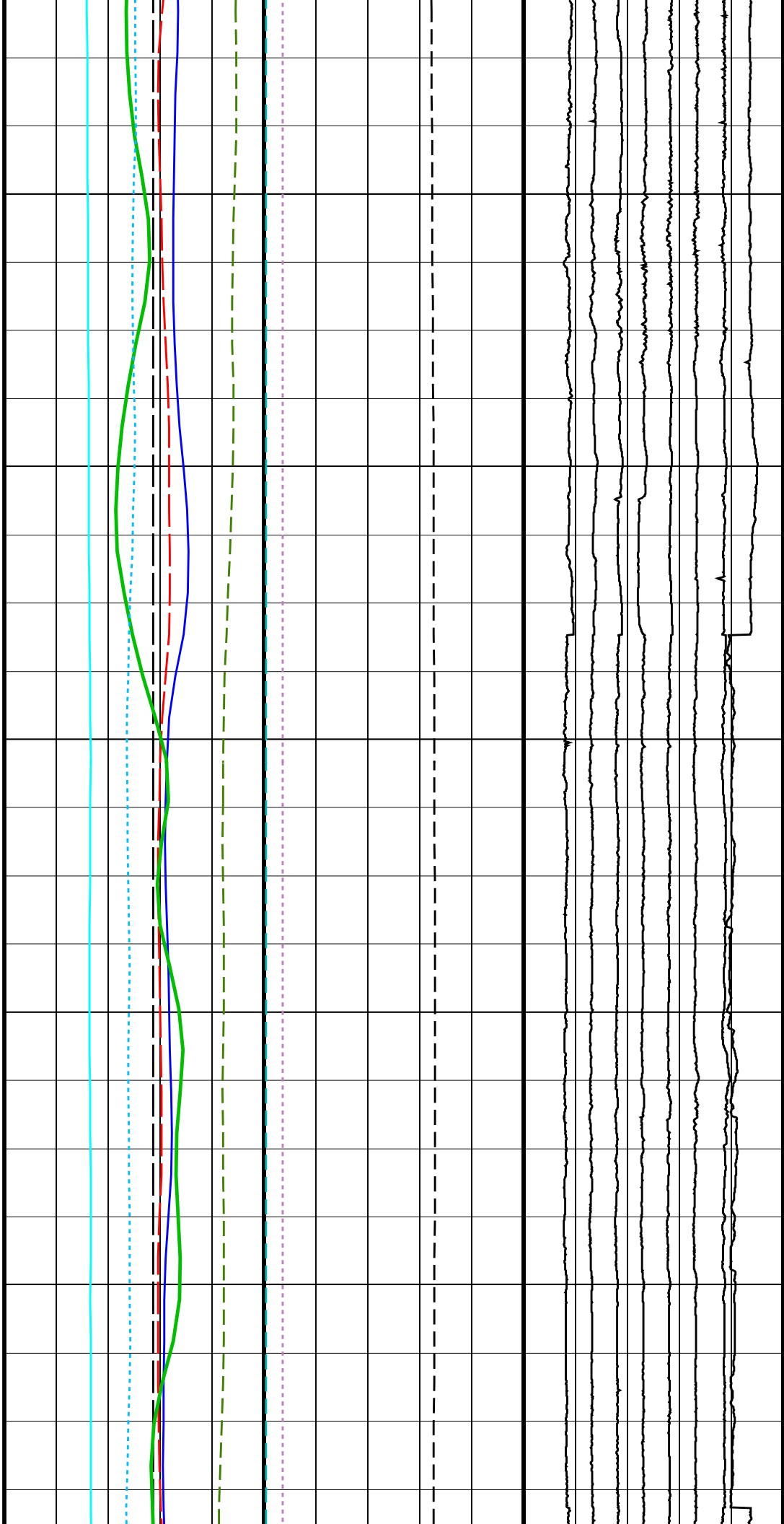
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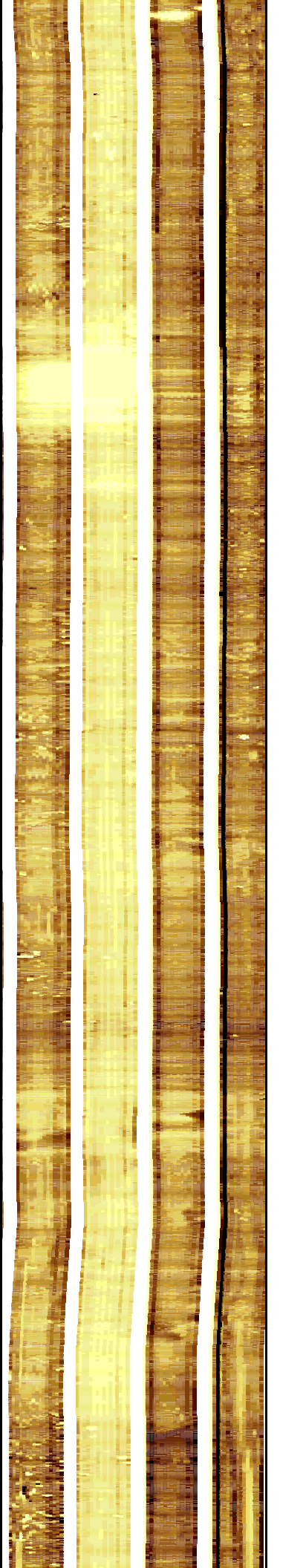
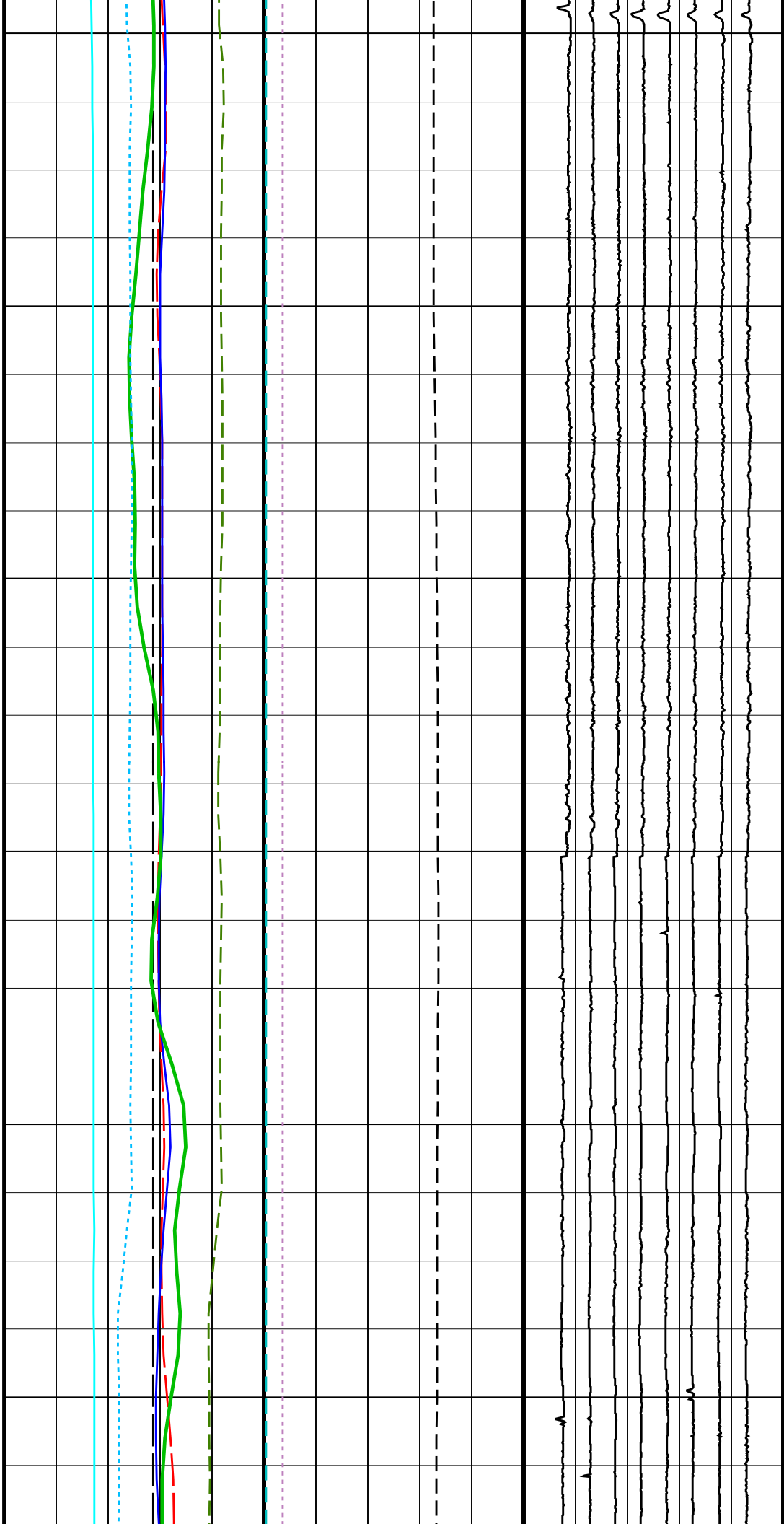
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147

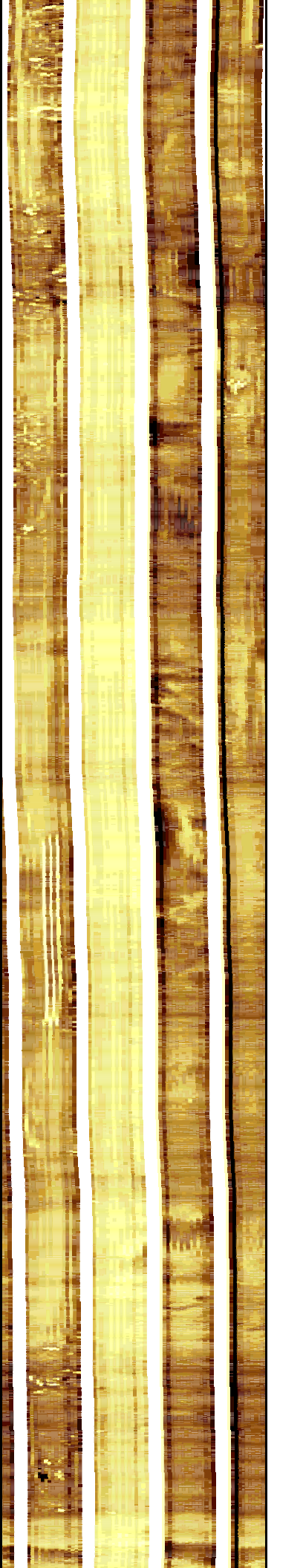
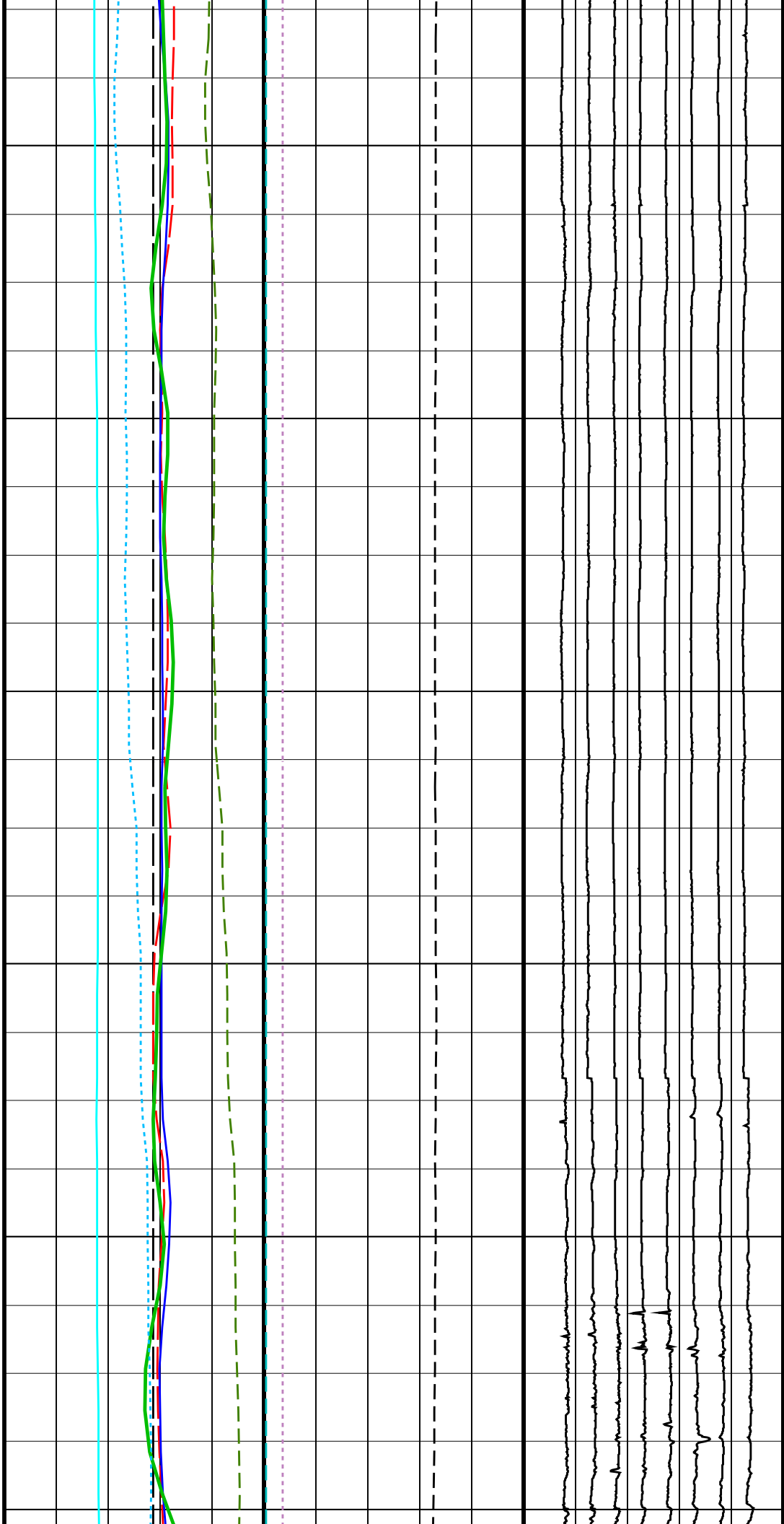
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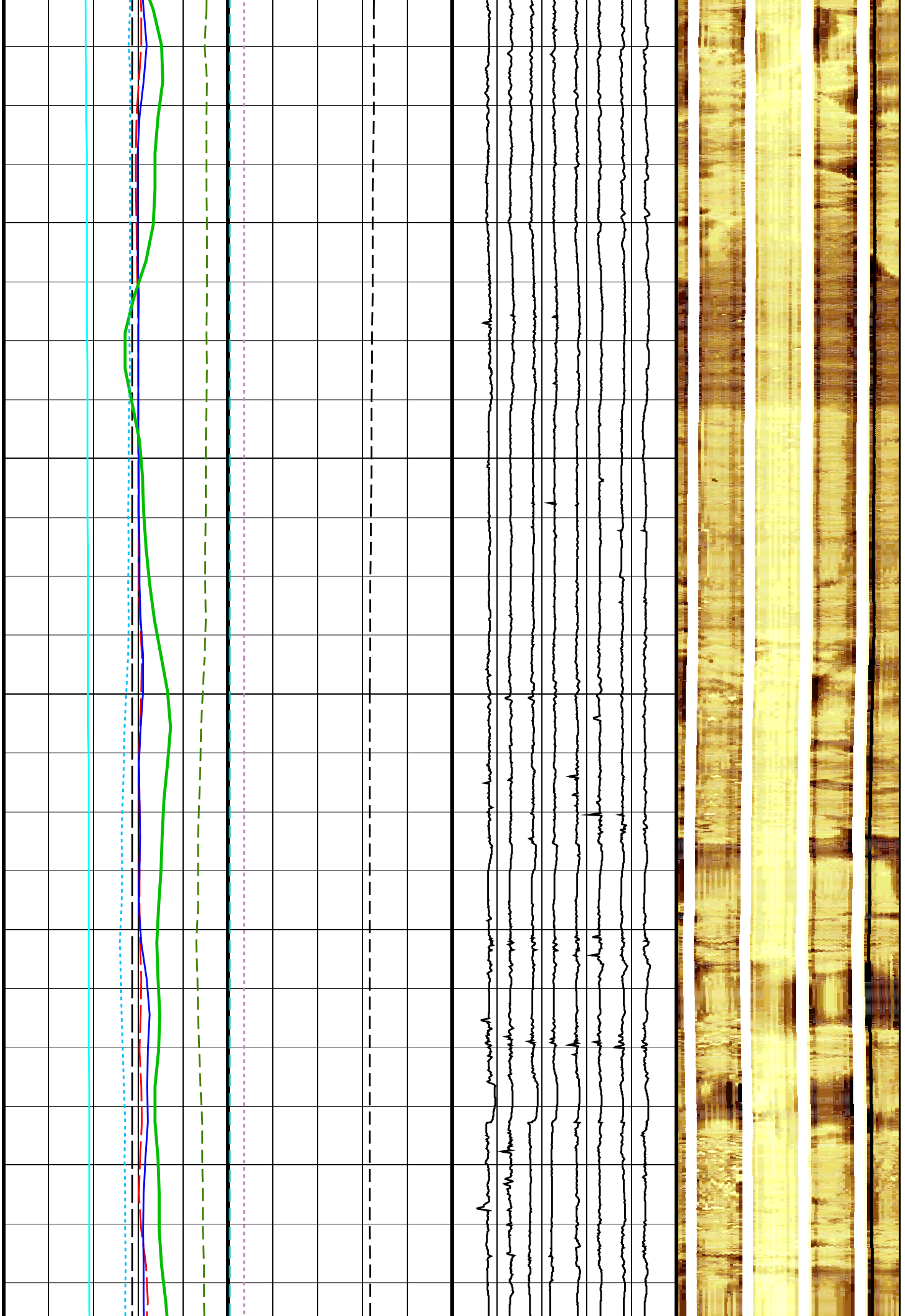
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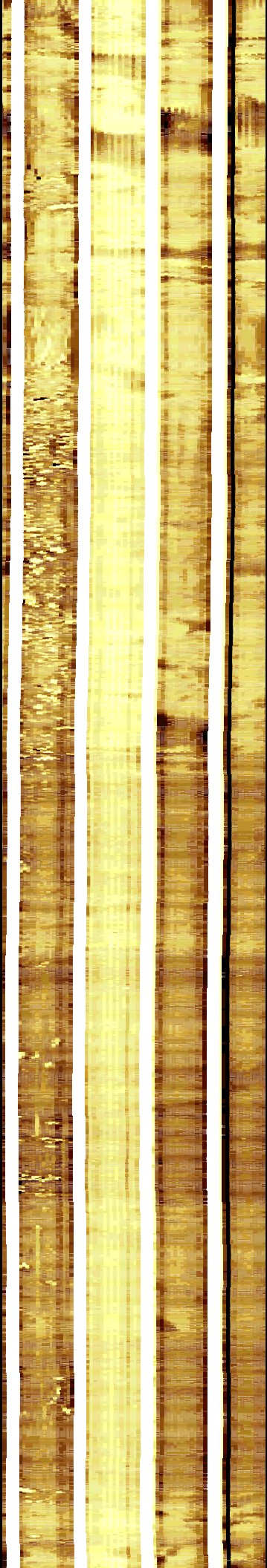
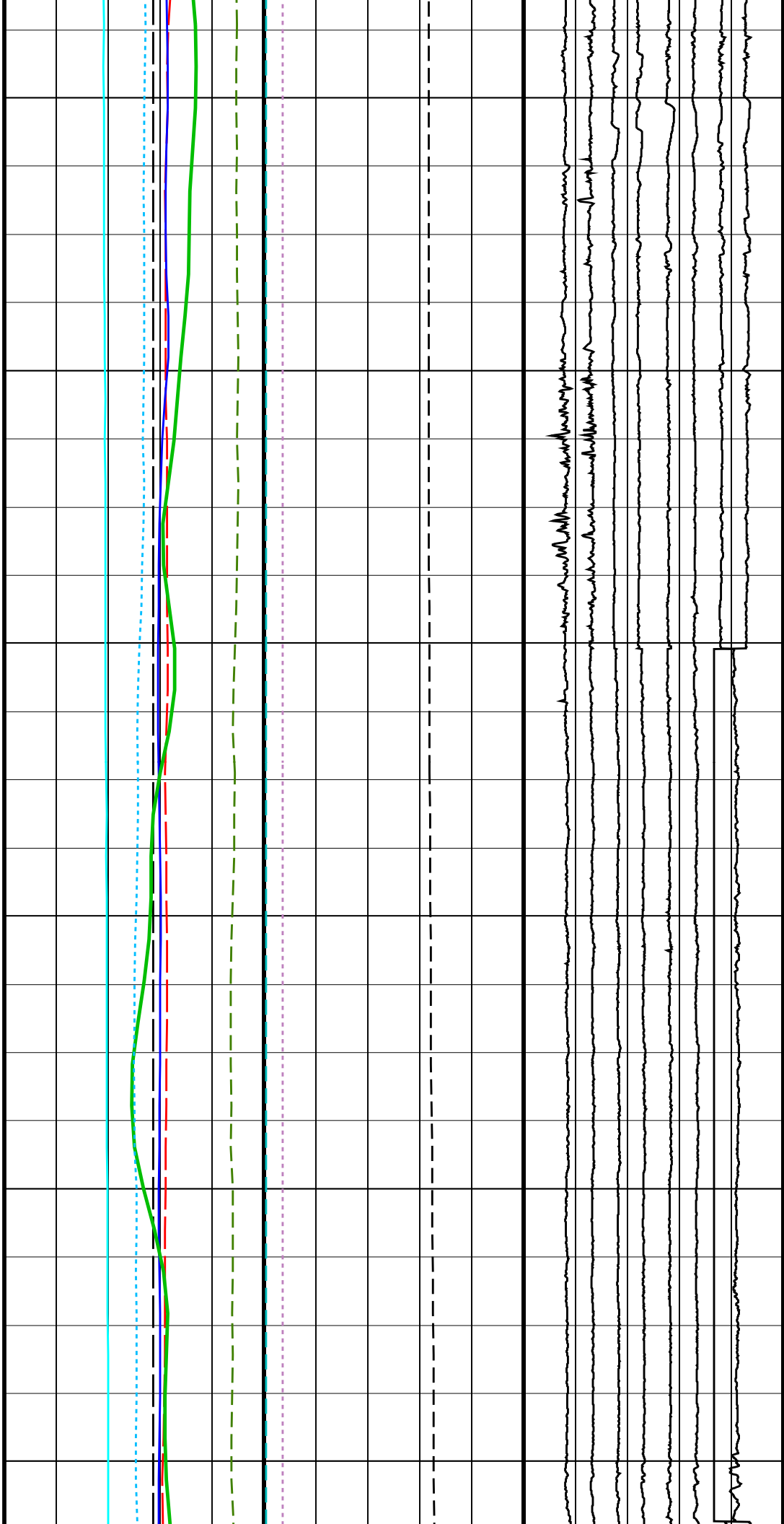
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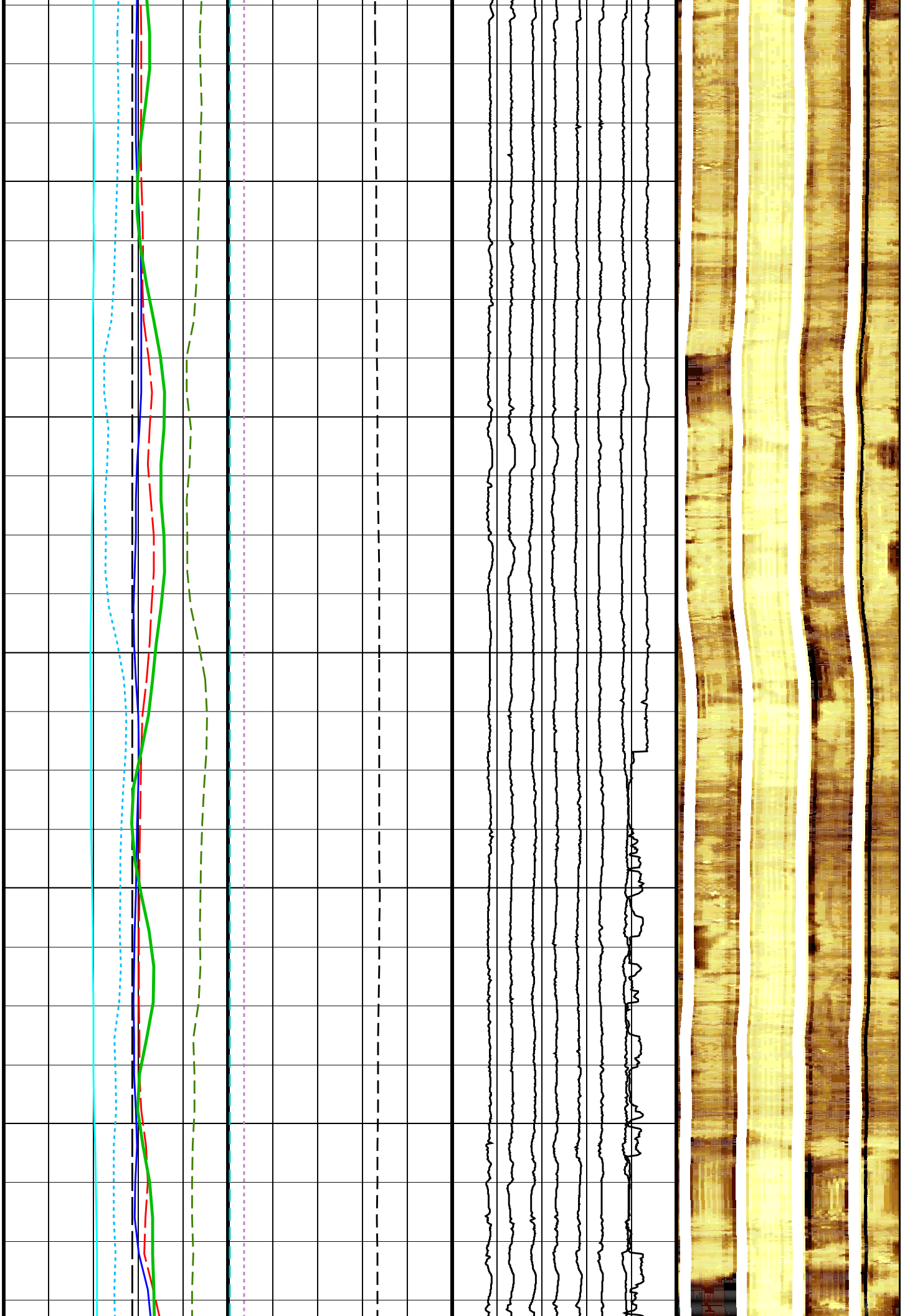
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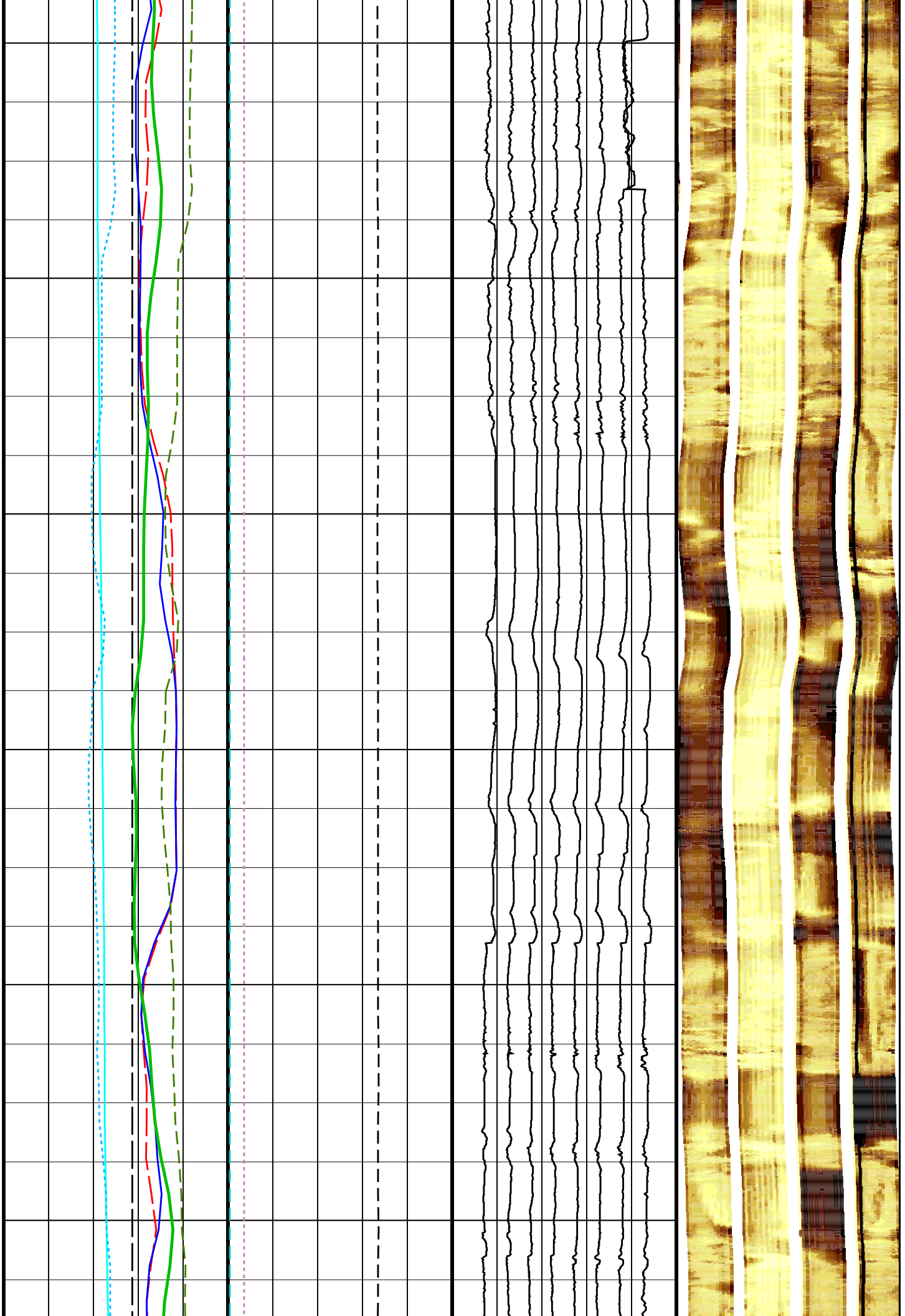
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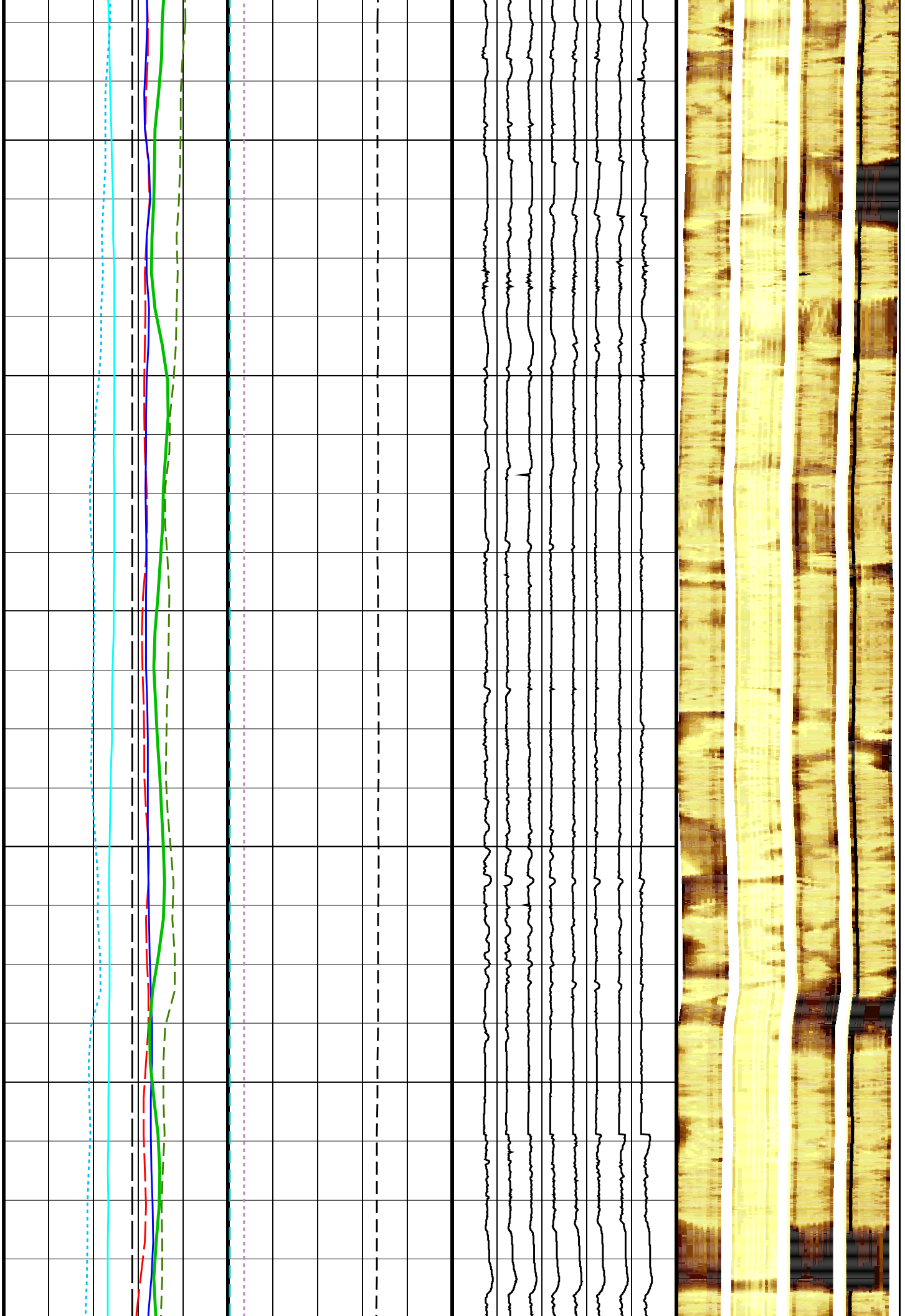
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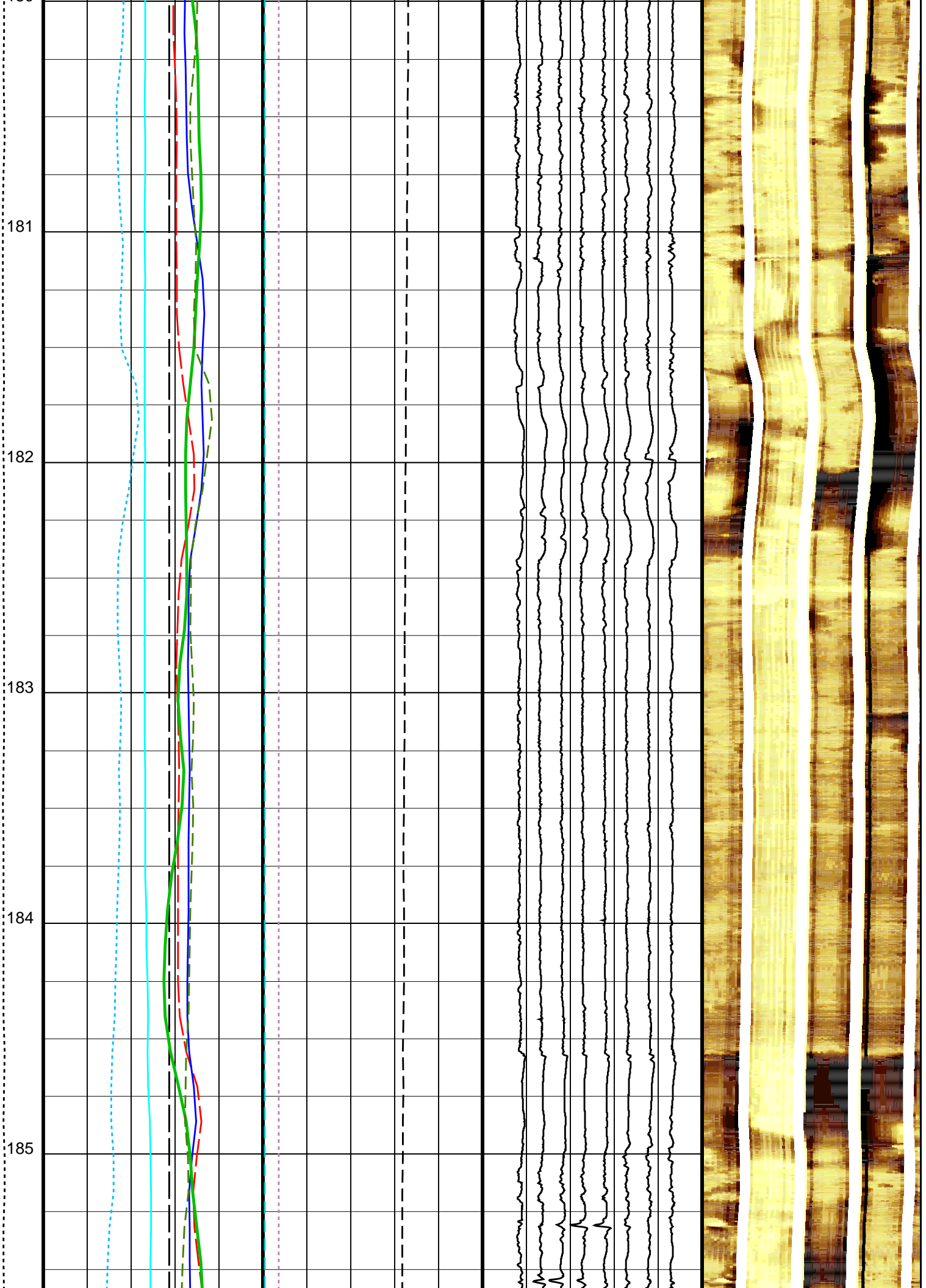
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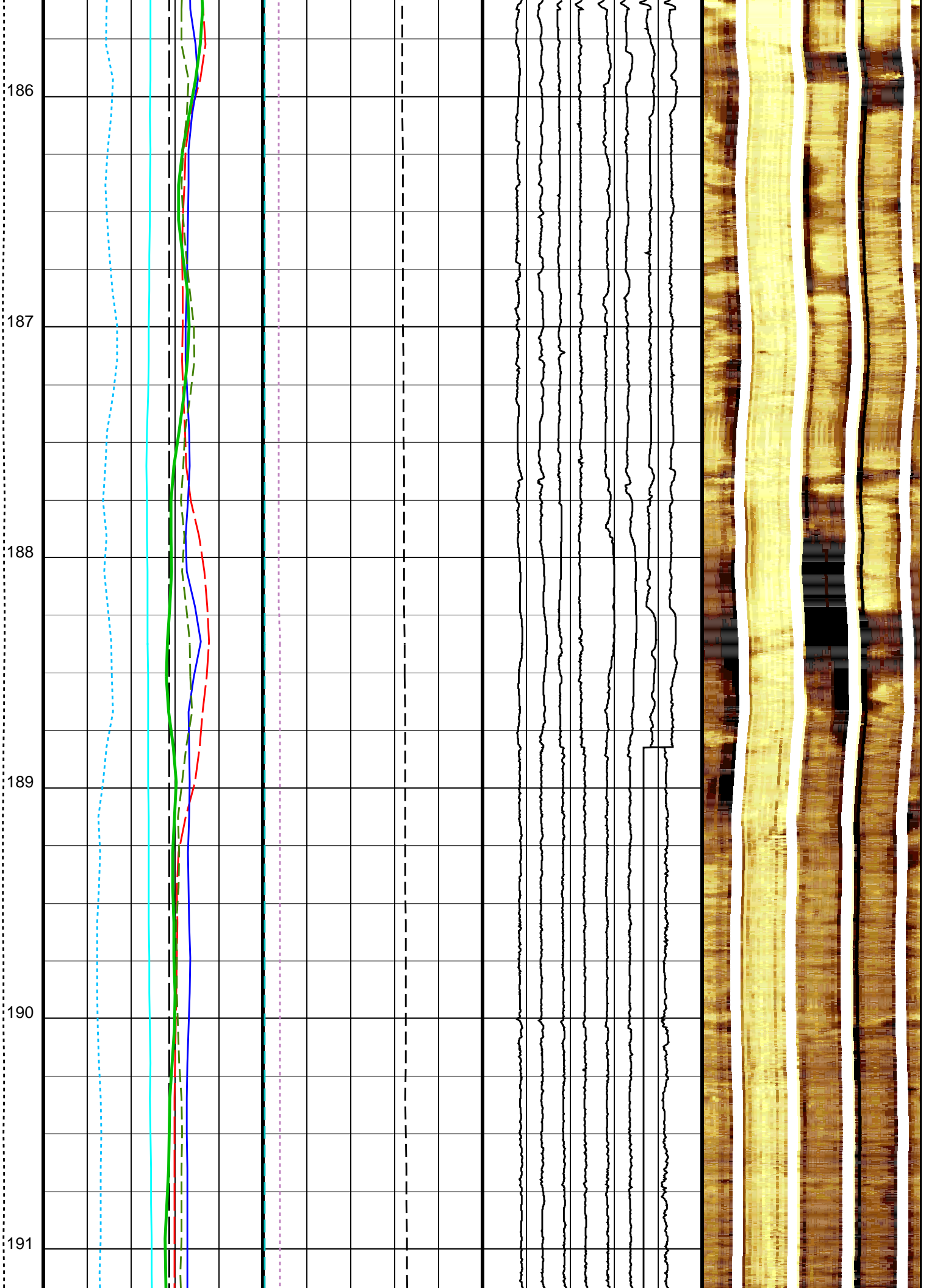
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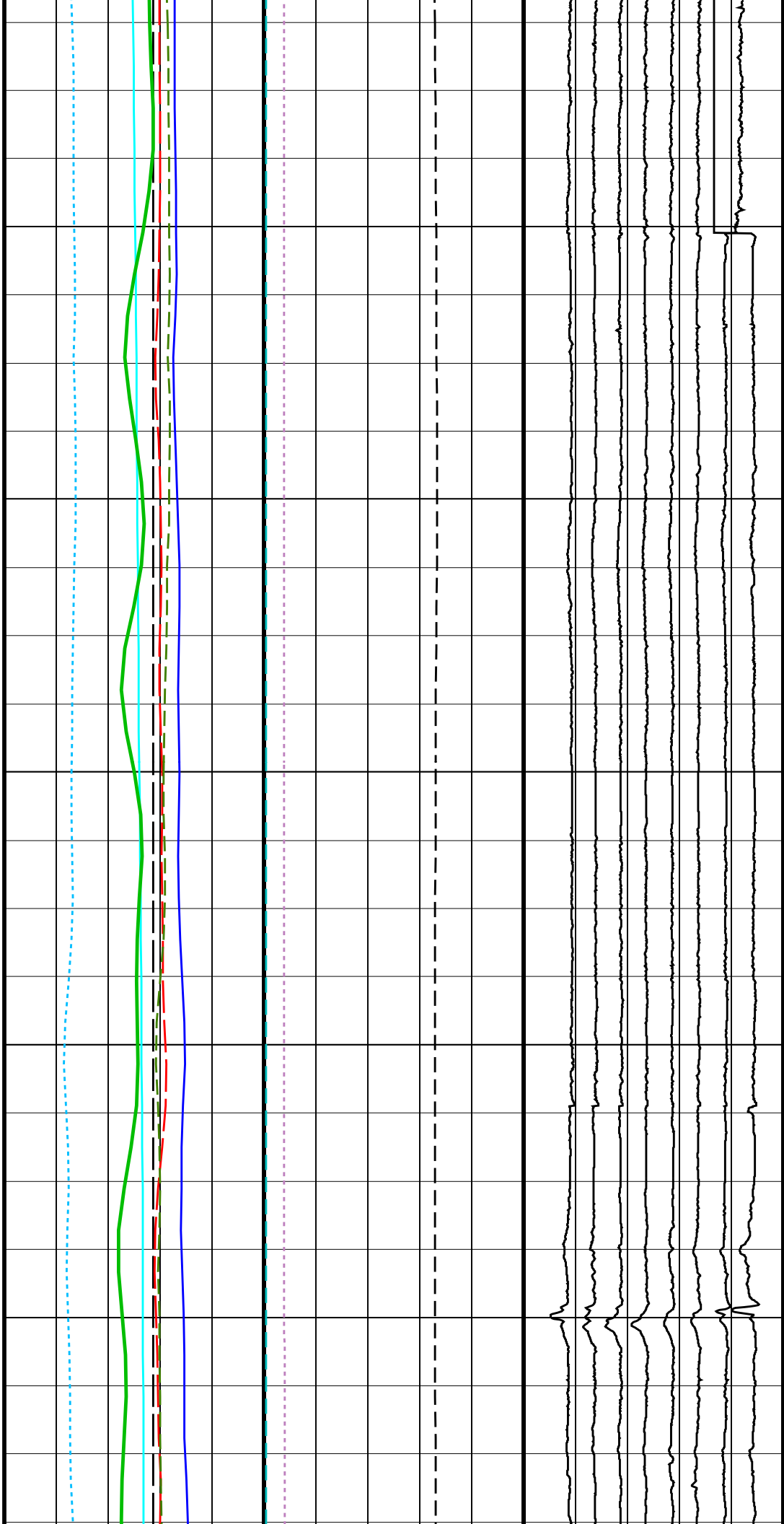
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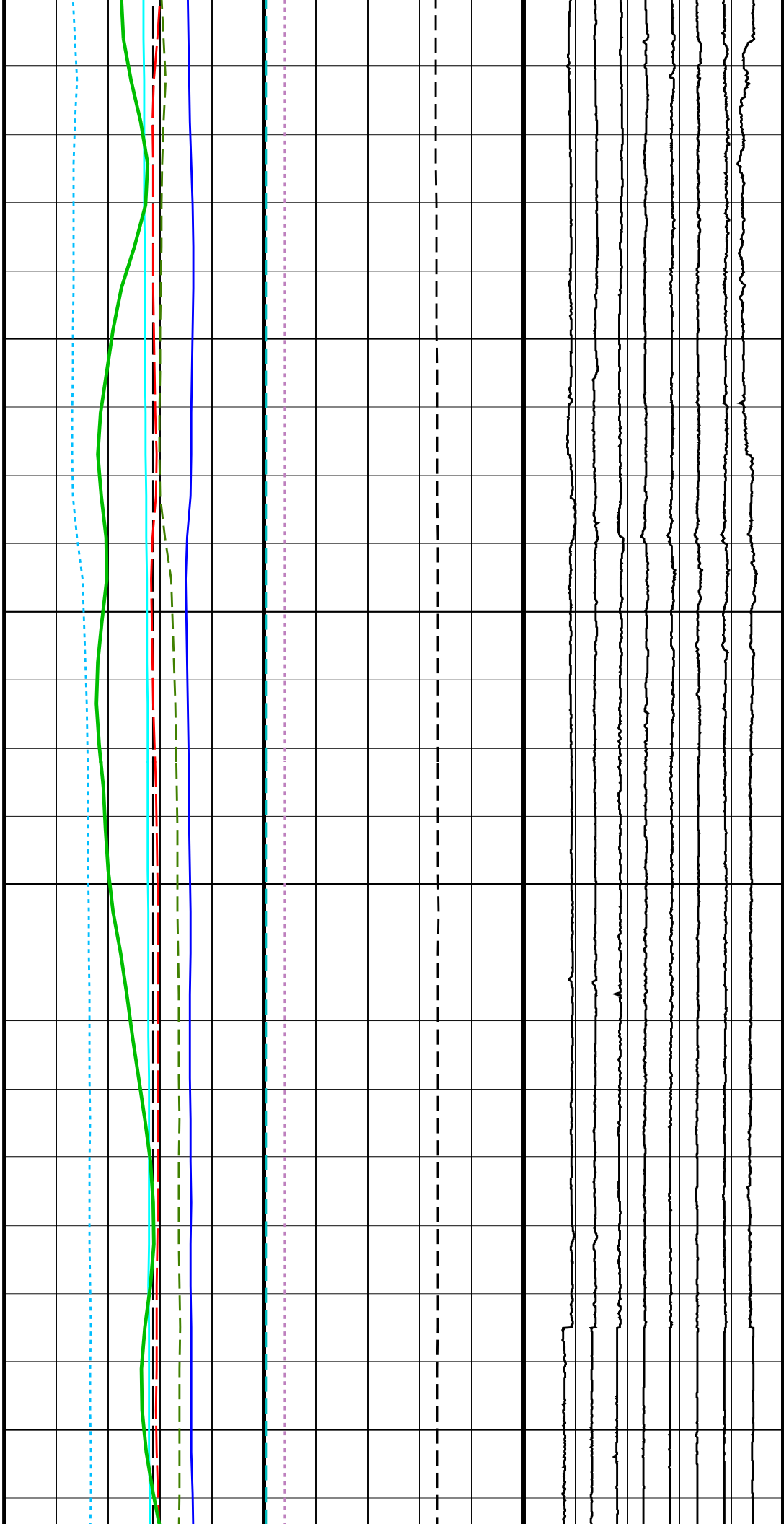
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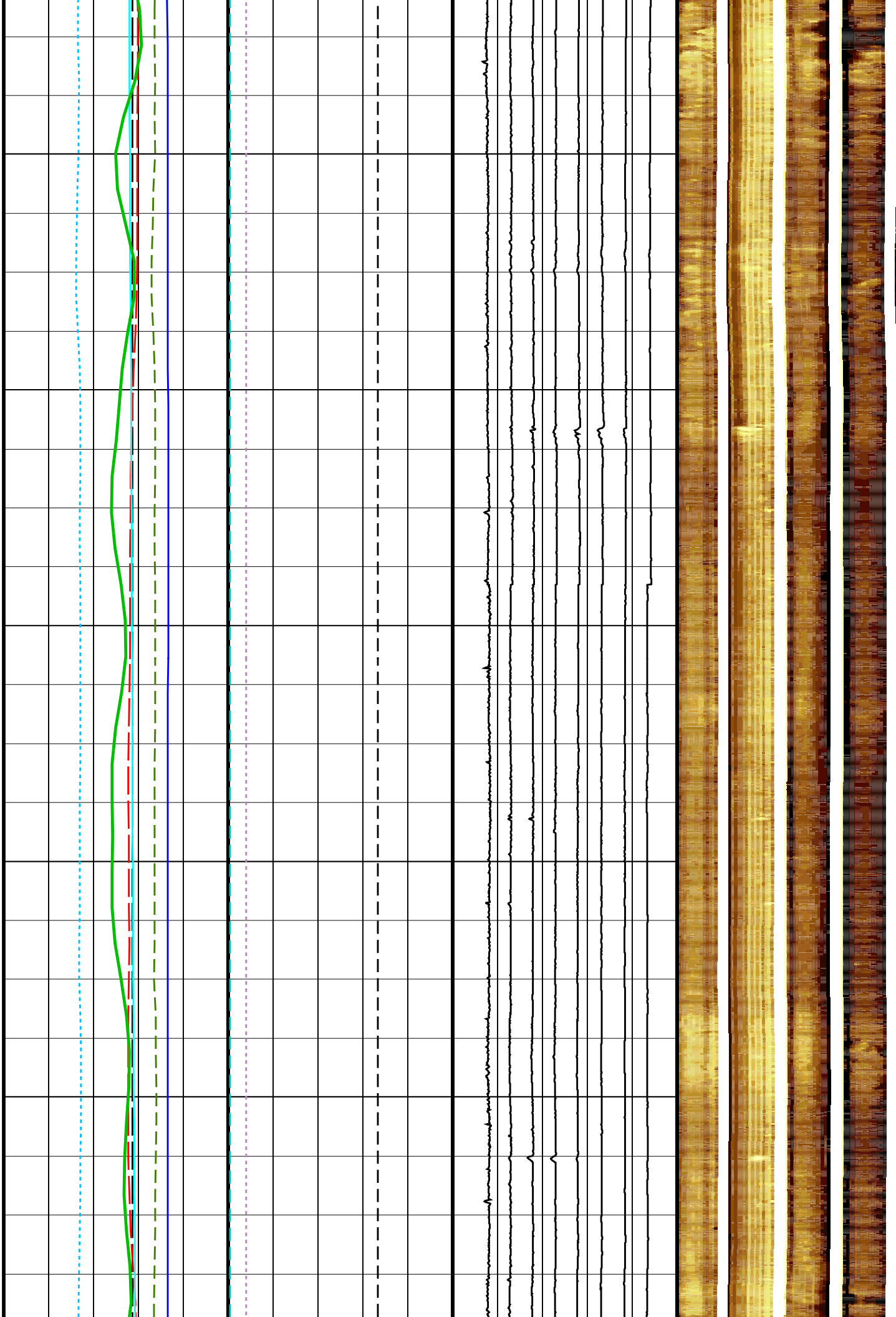
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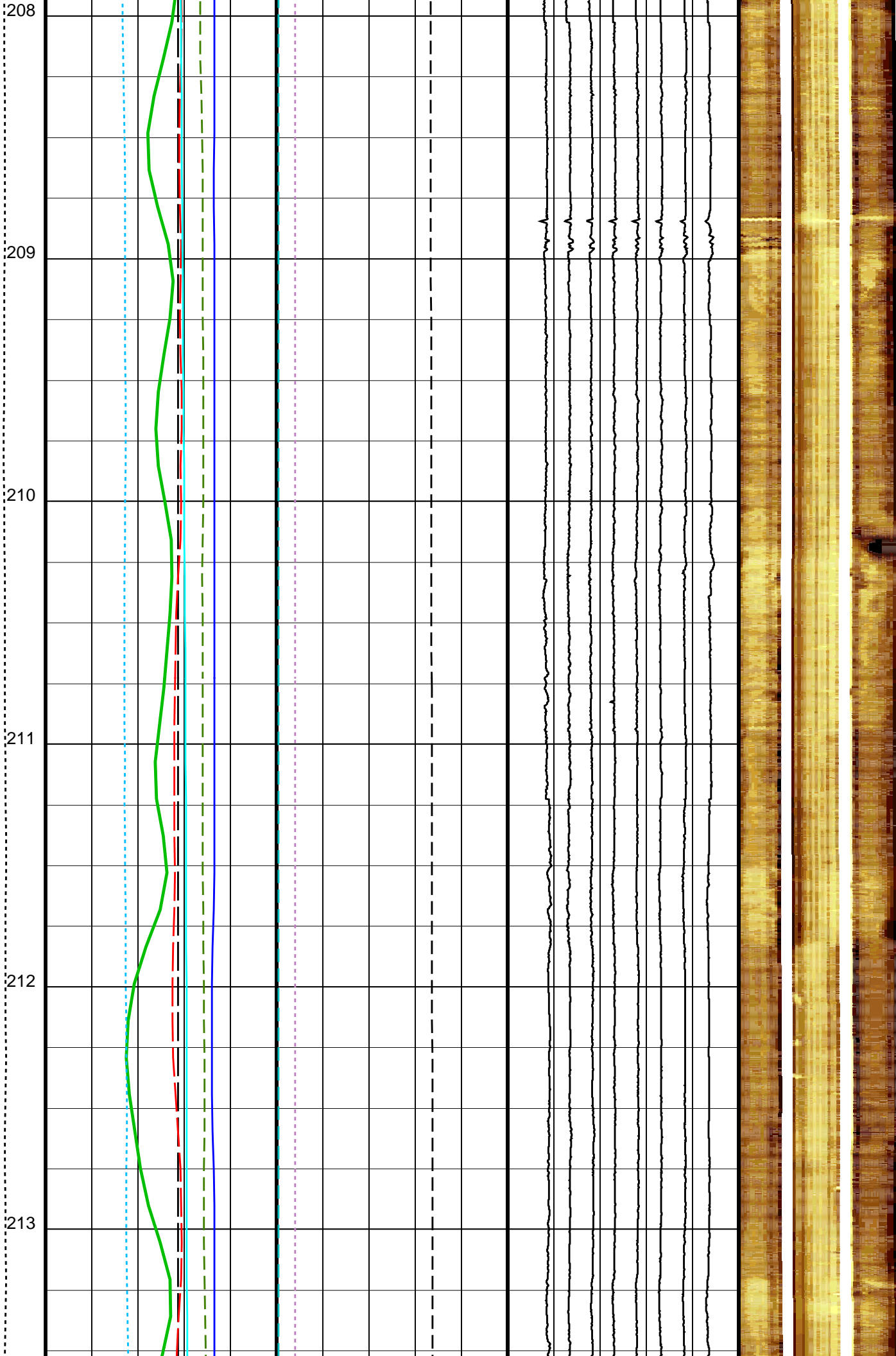
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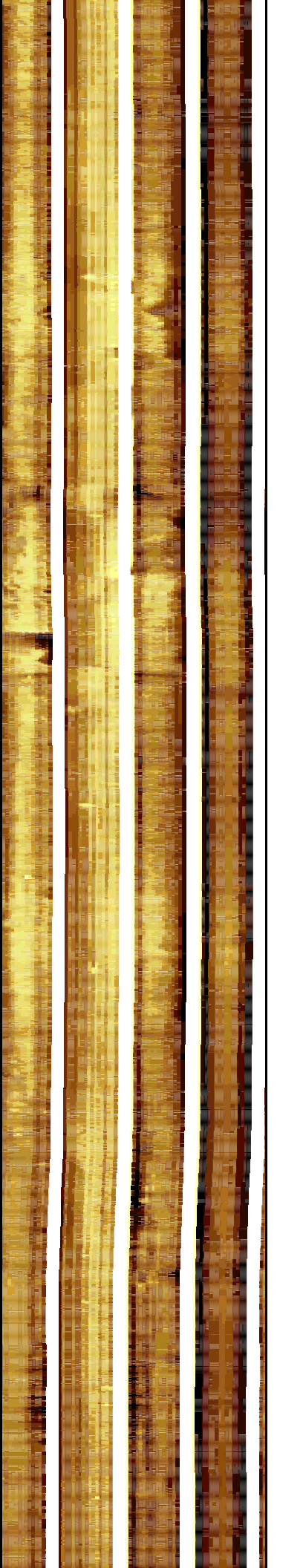
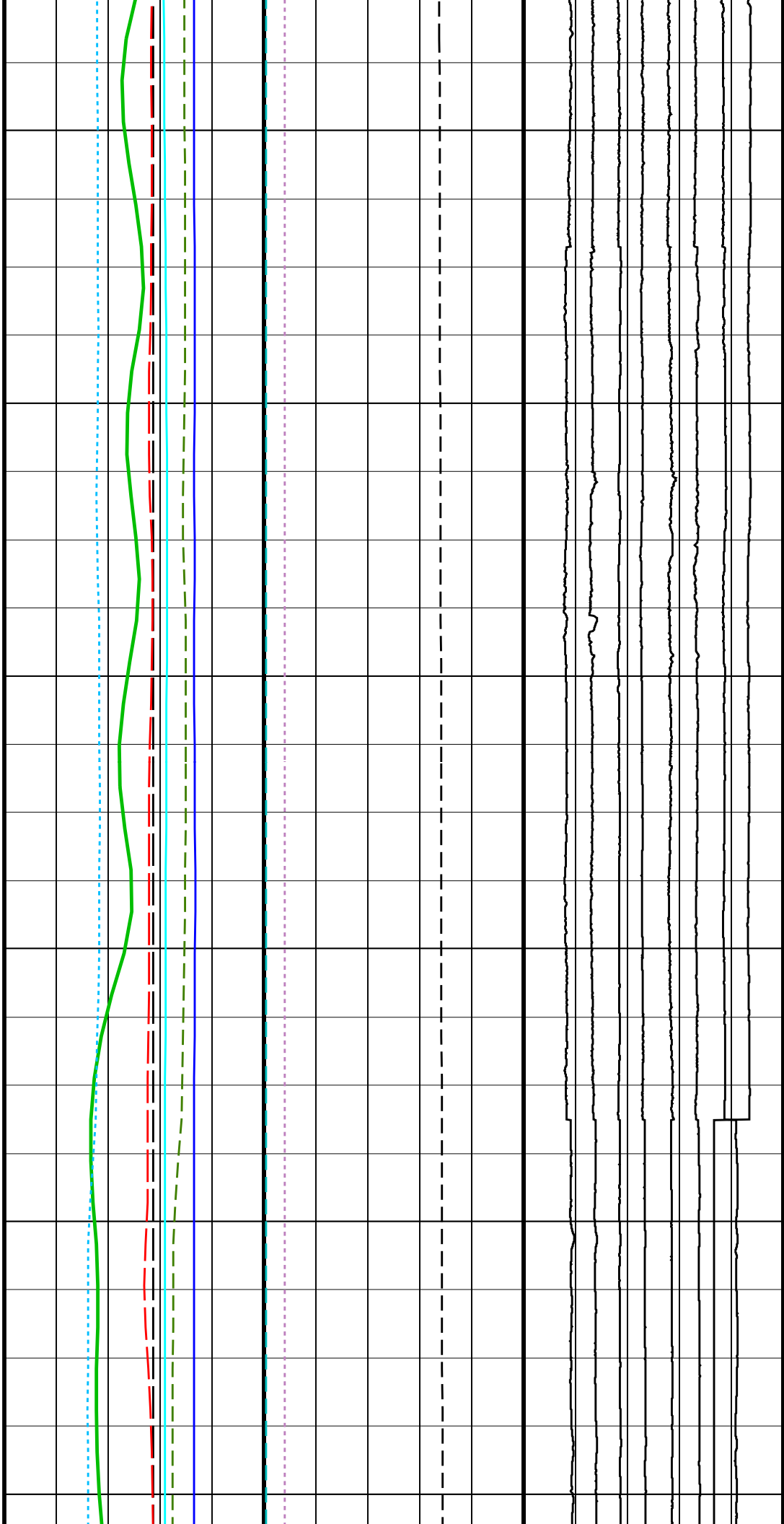
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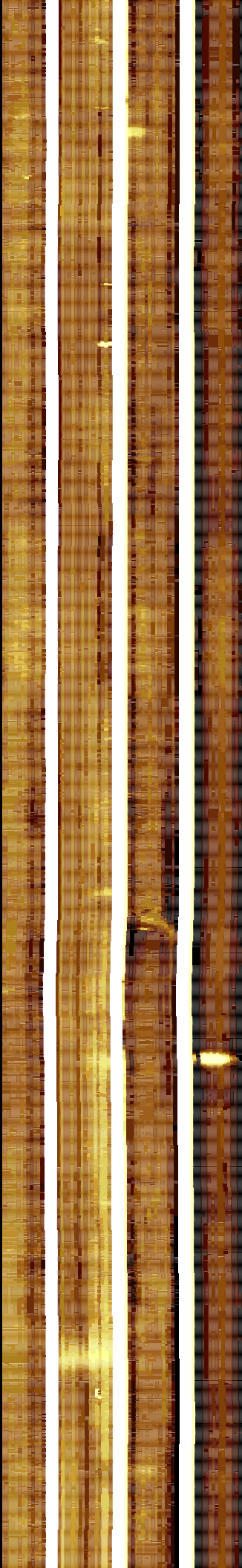
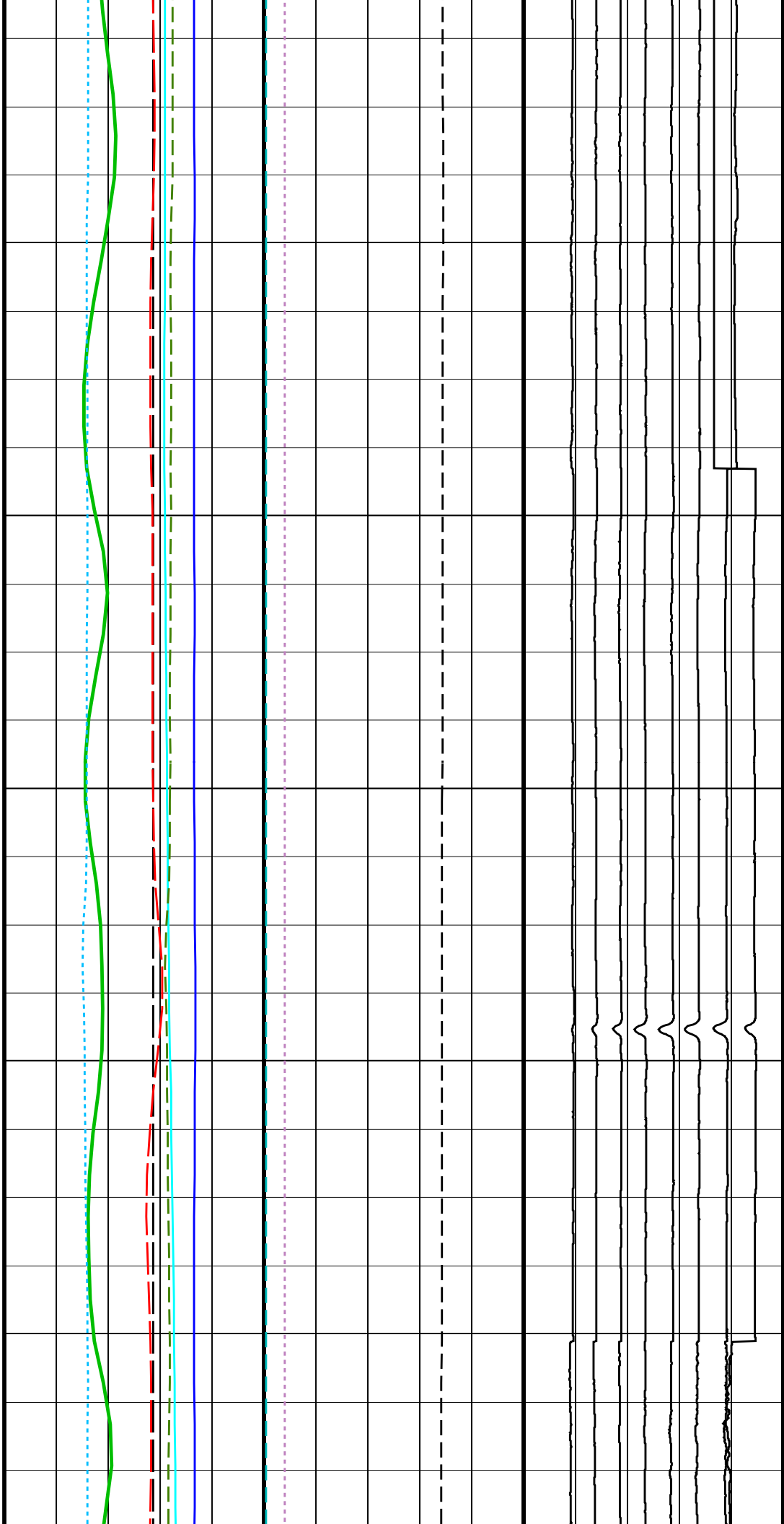
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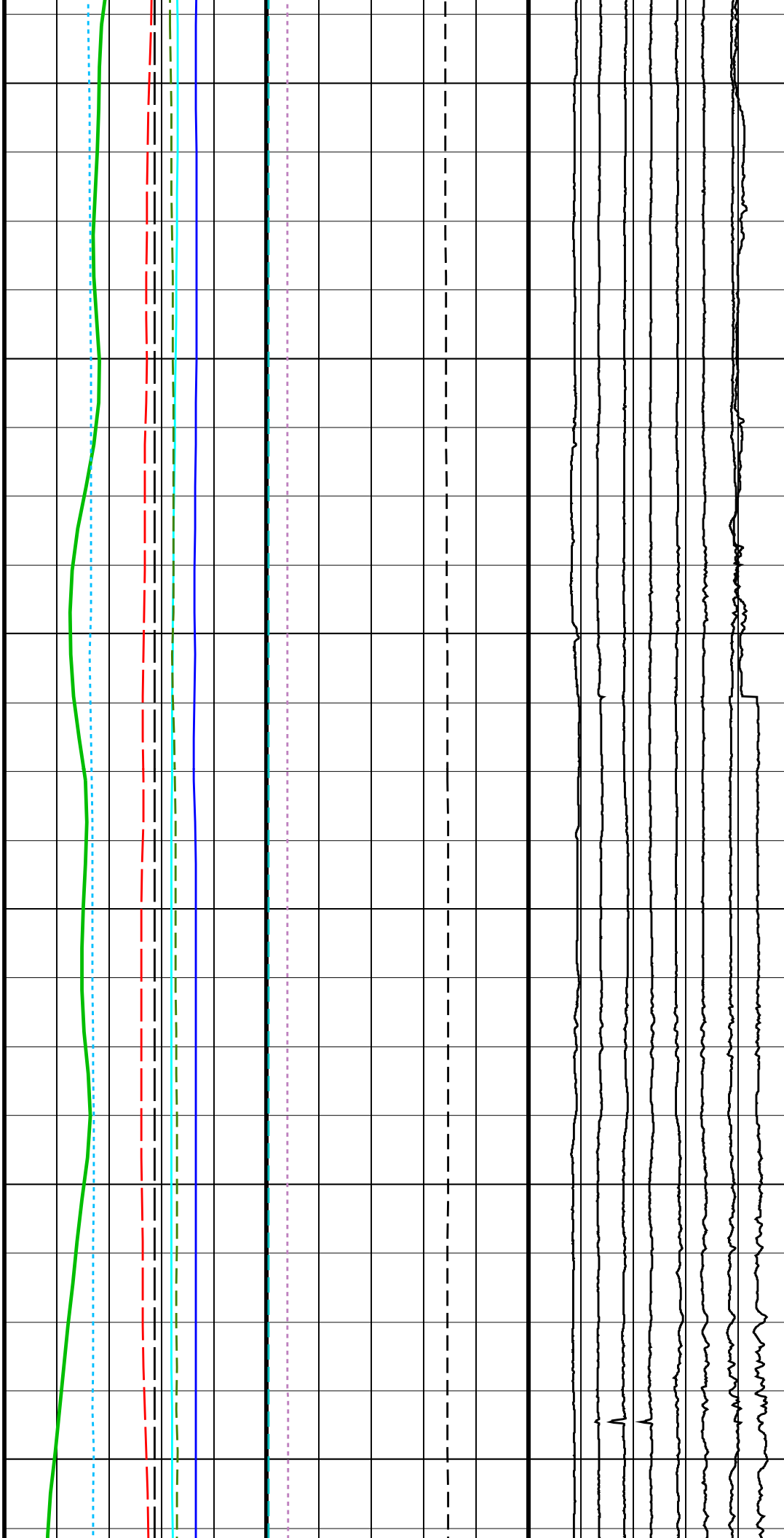
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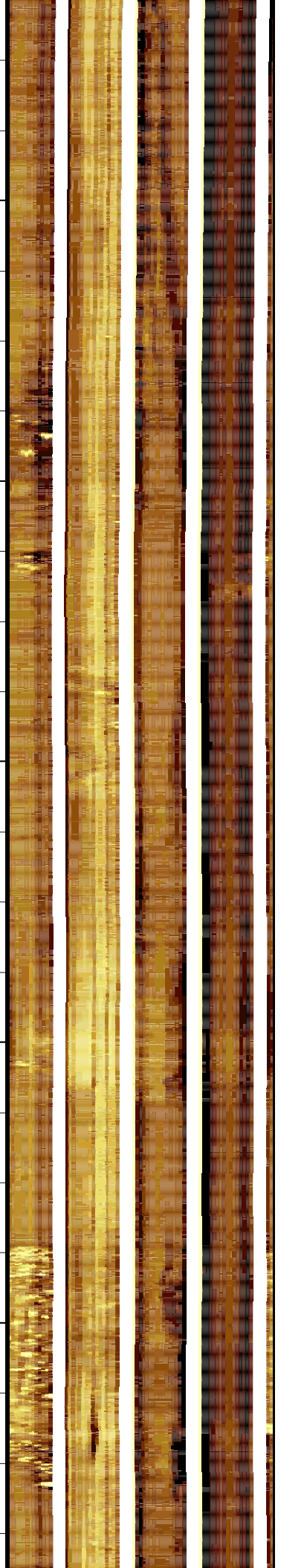
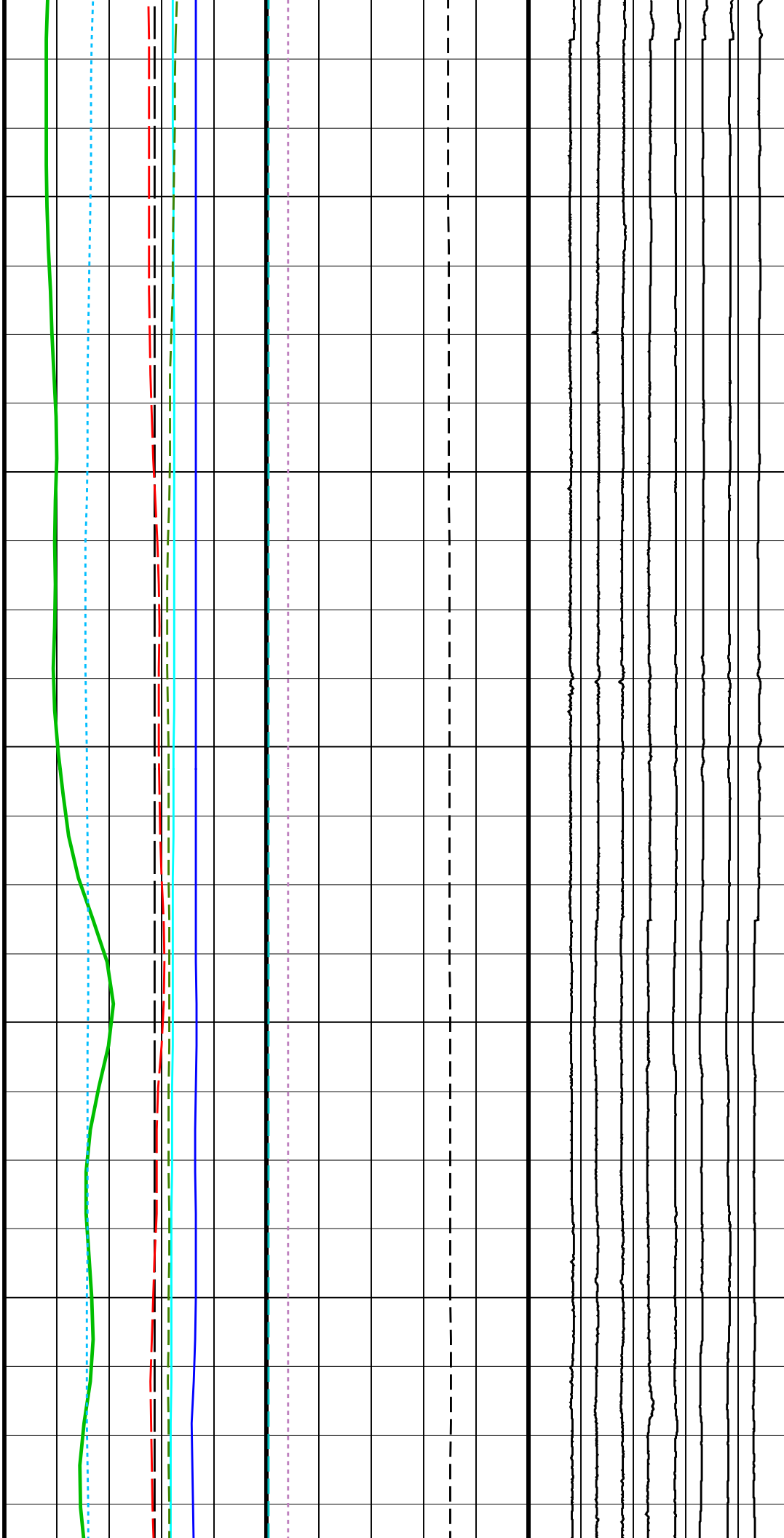
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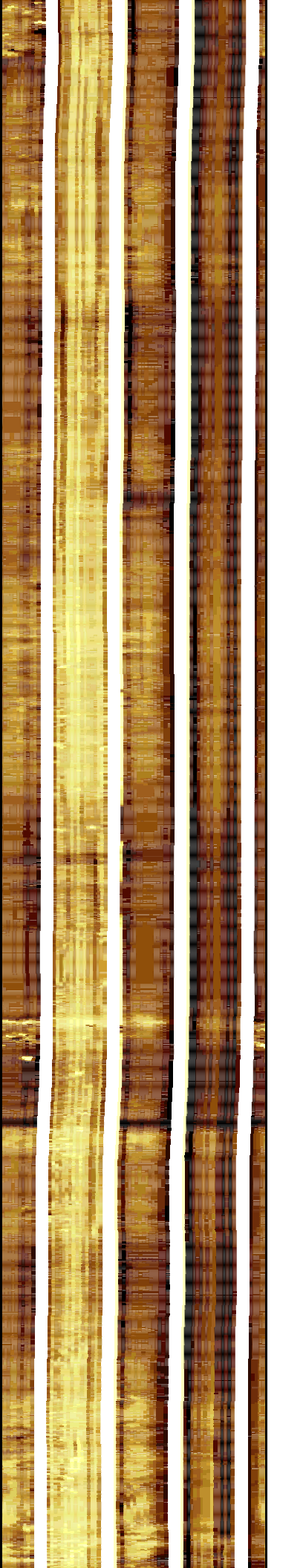
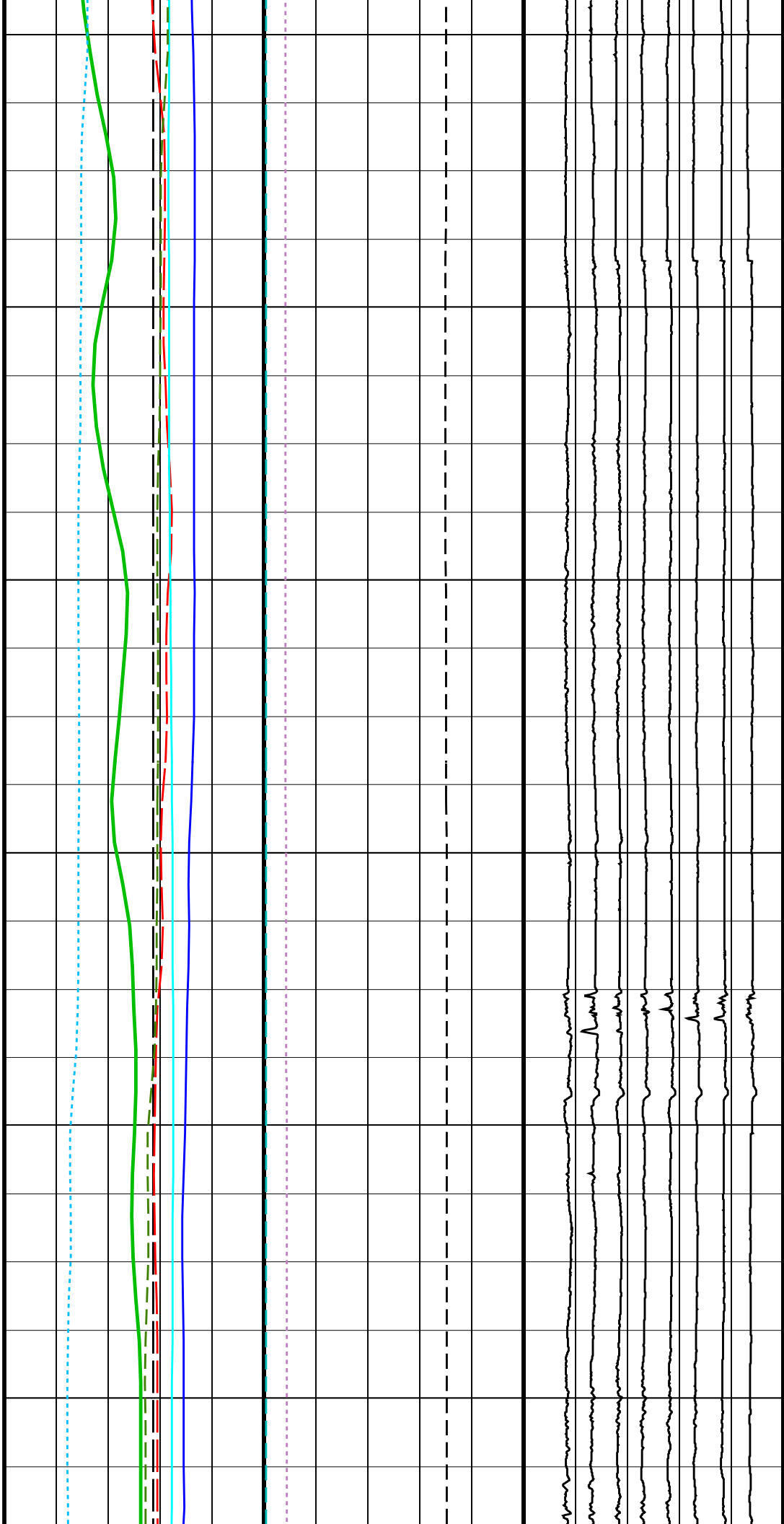
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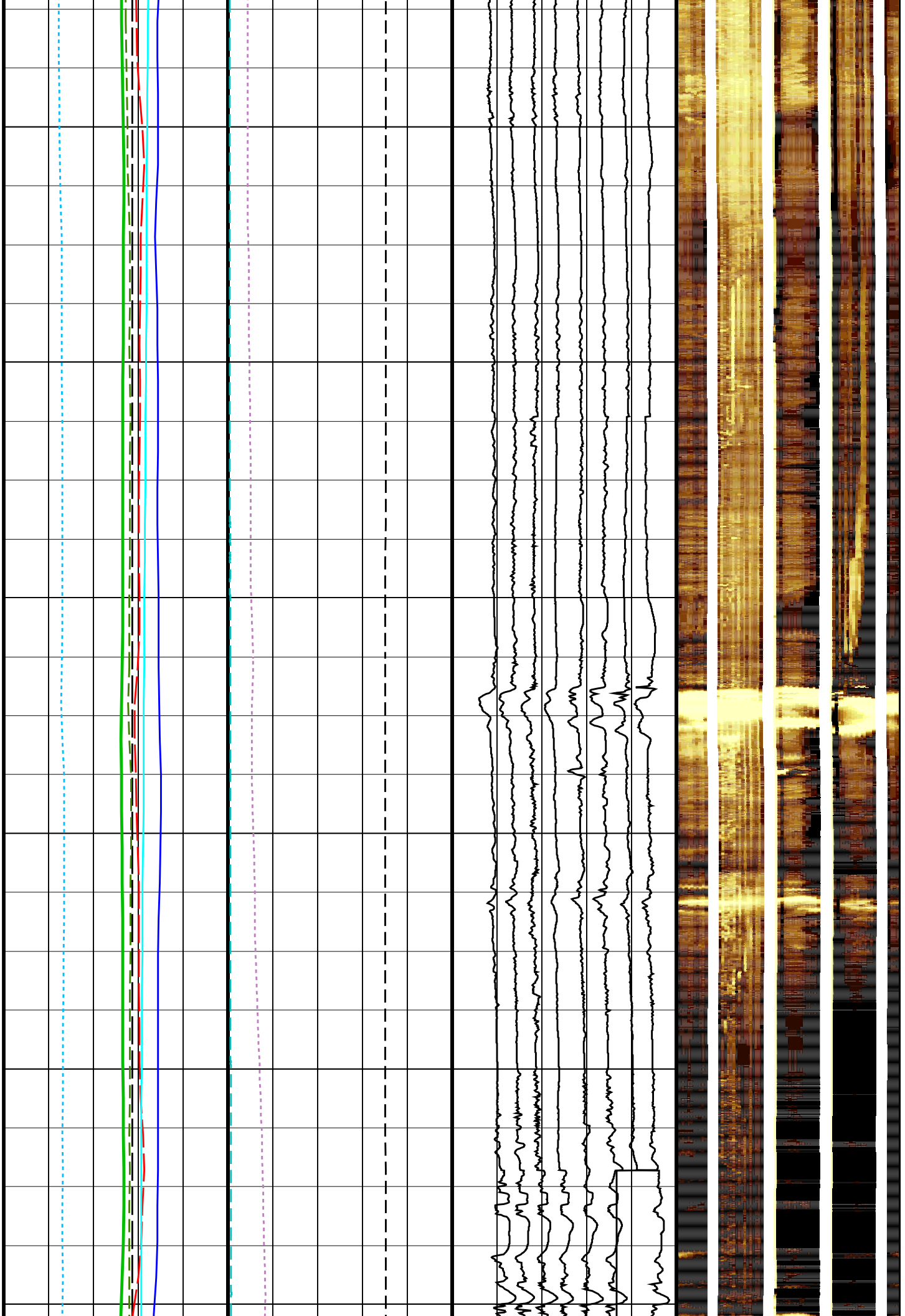
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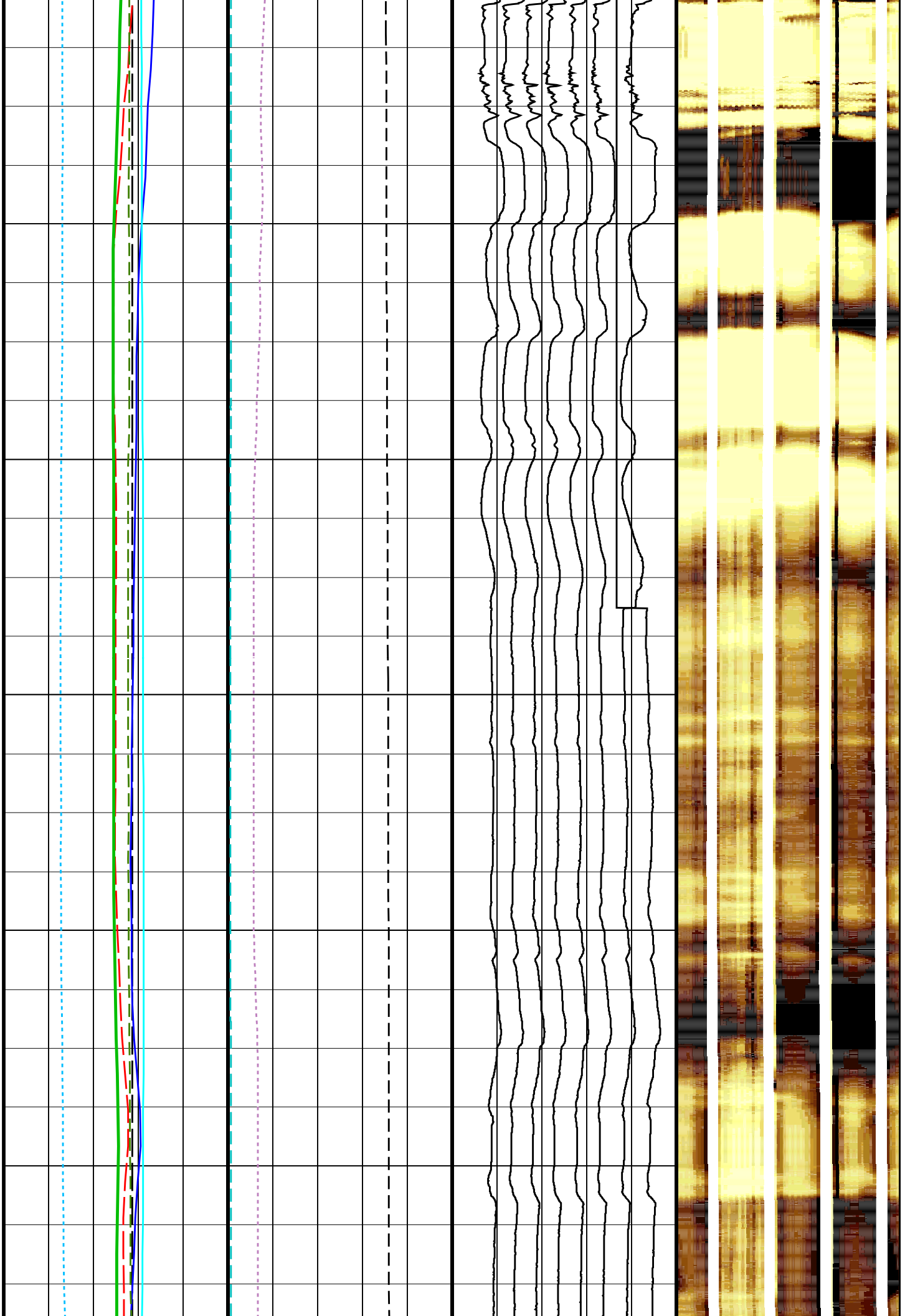
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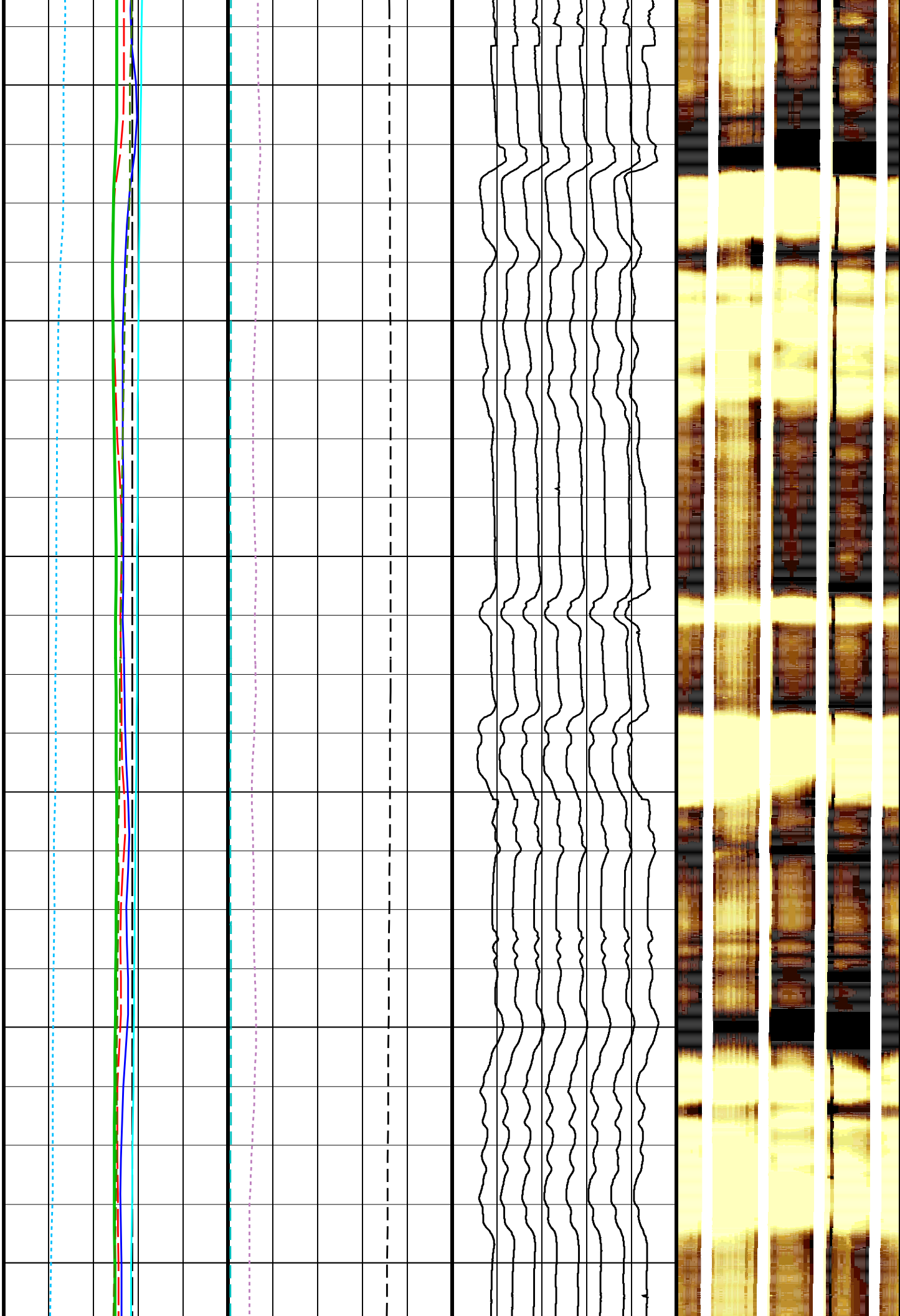
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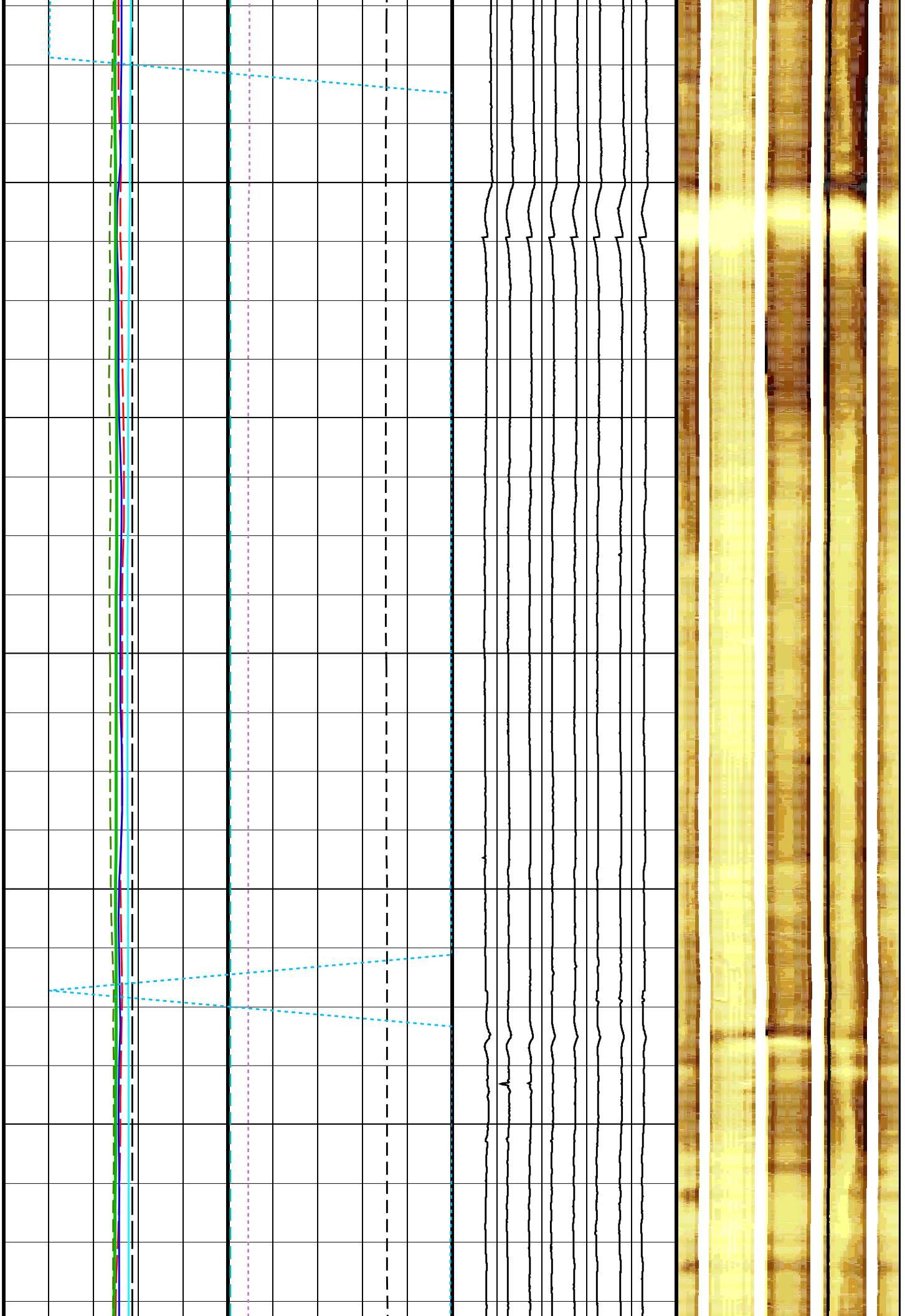
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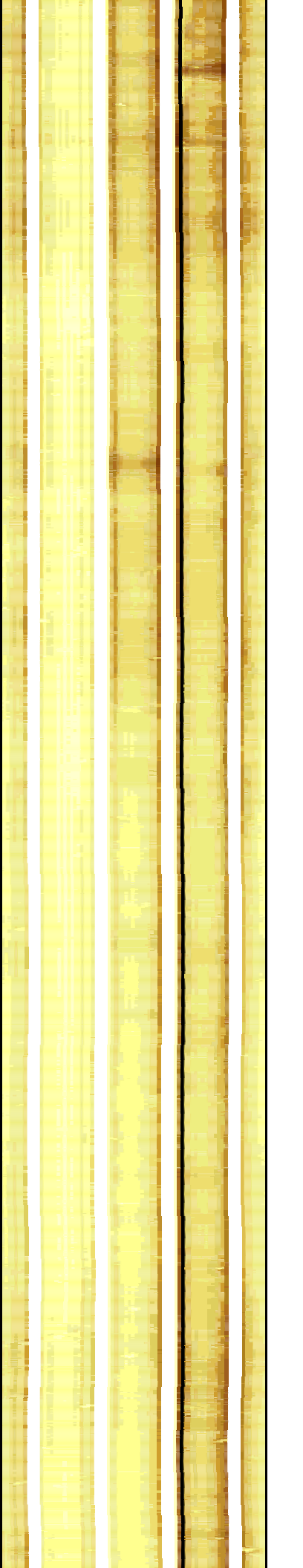
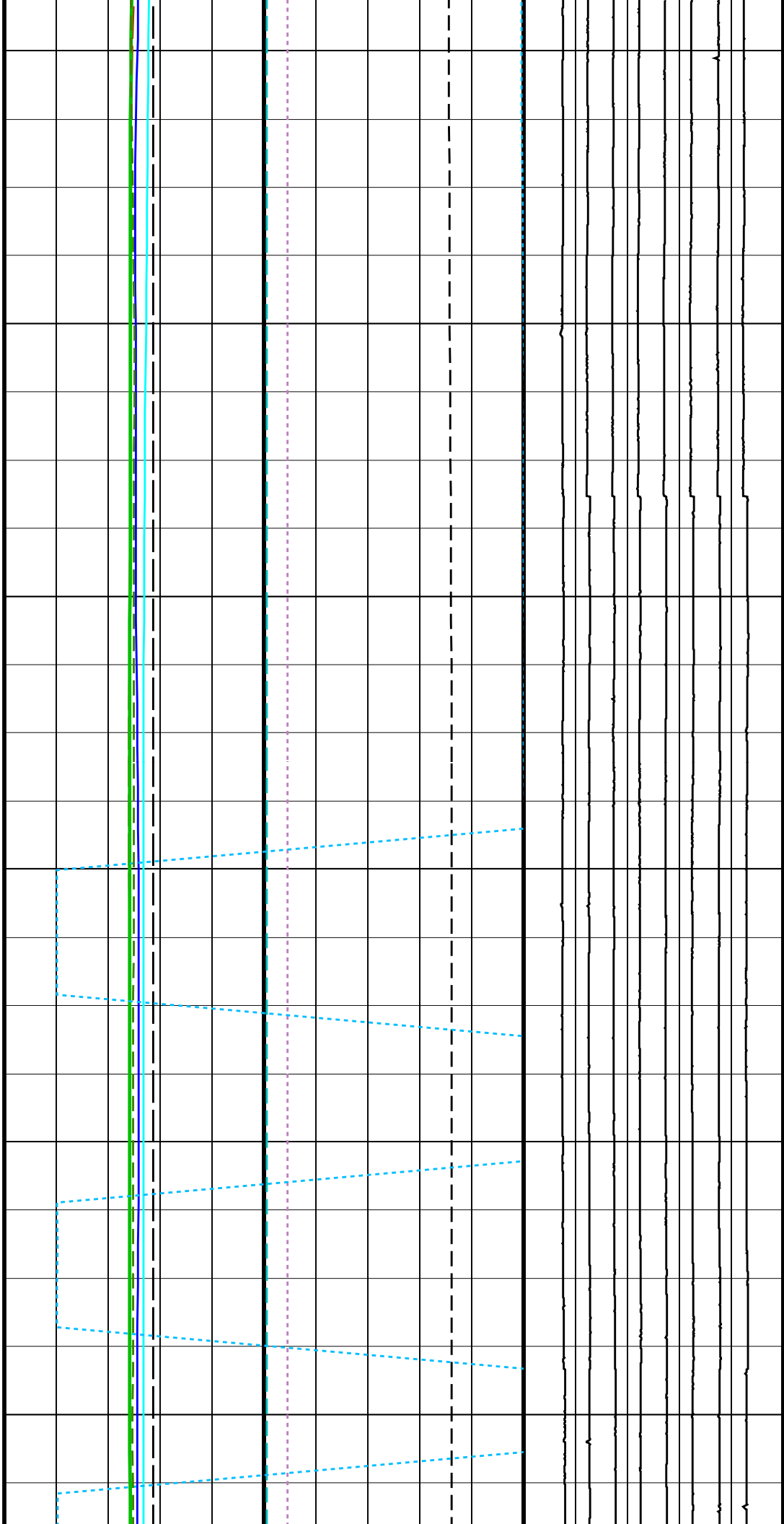
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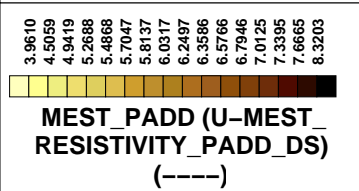
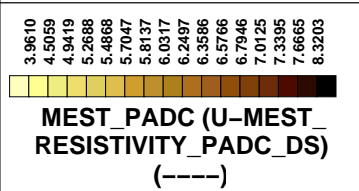
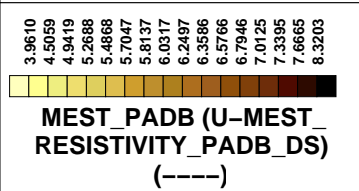
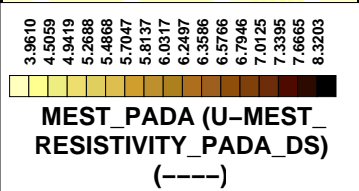
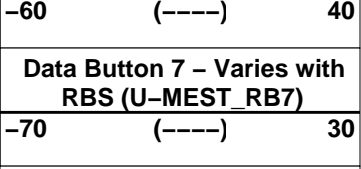
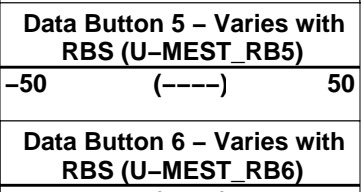
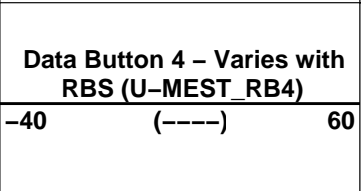
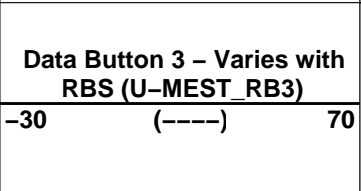
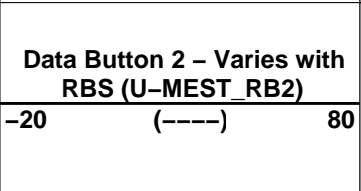
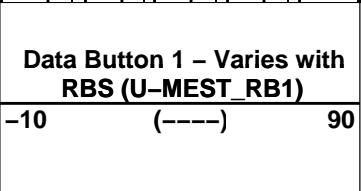
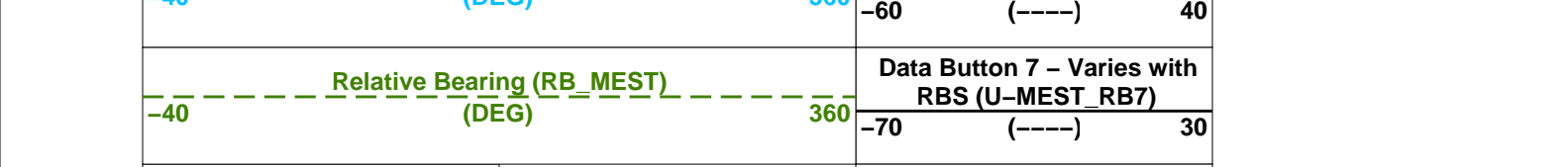
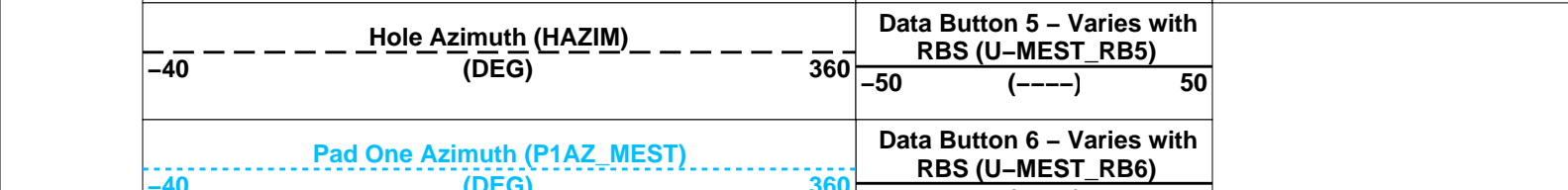
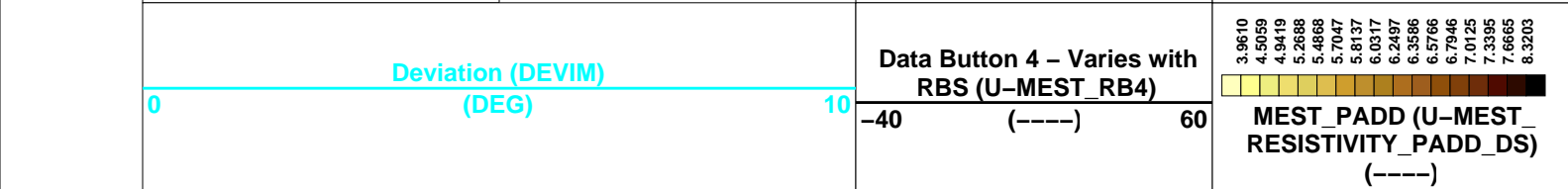
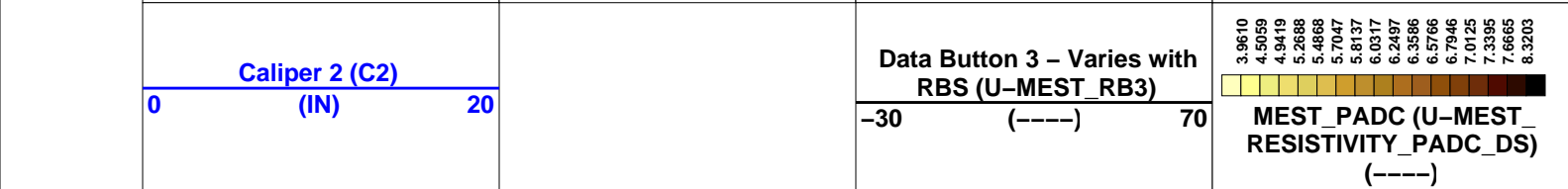
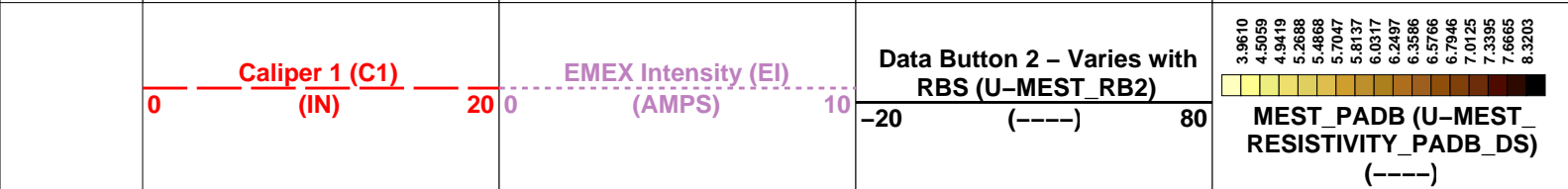
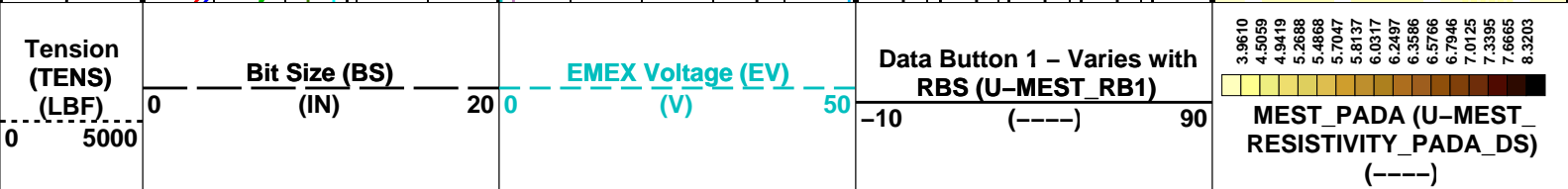
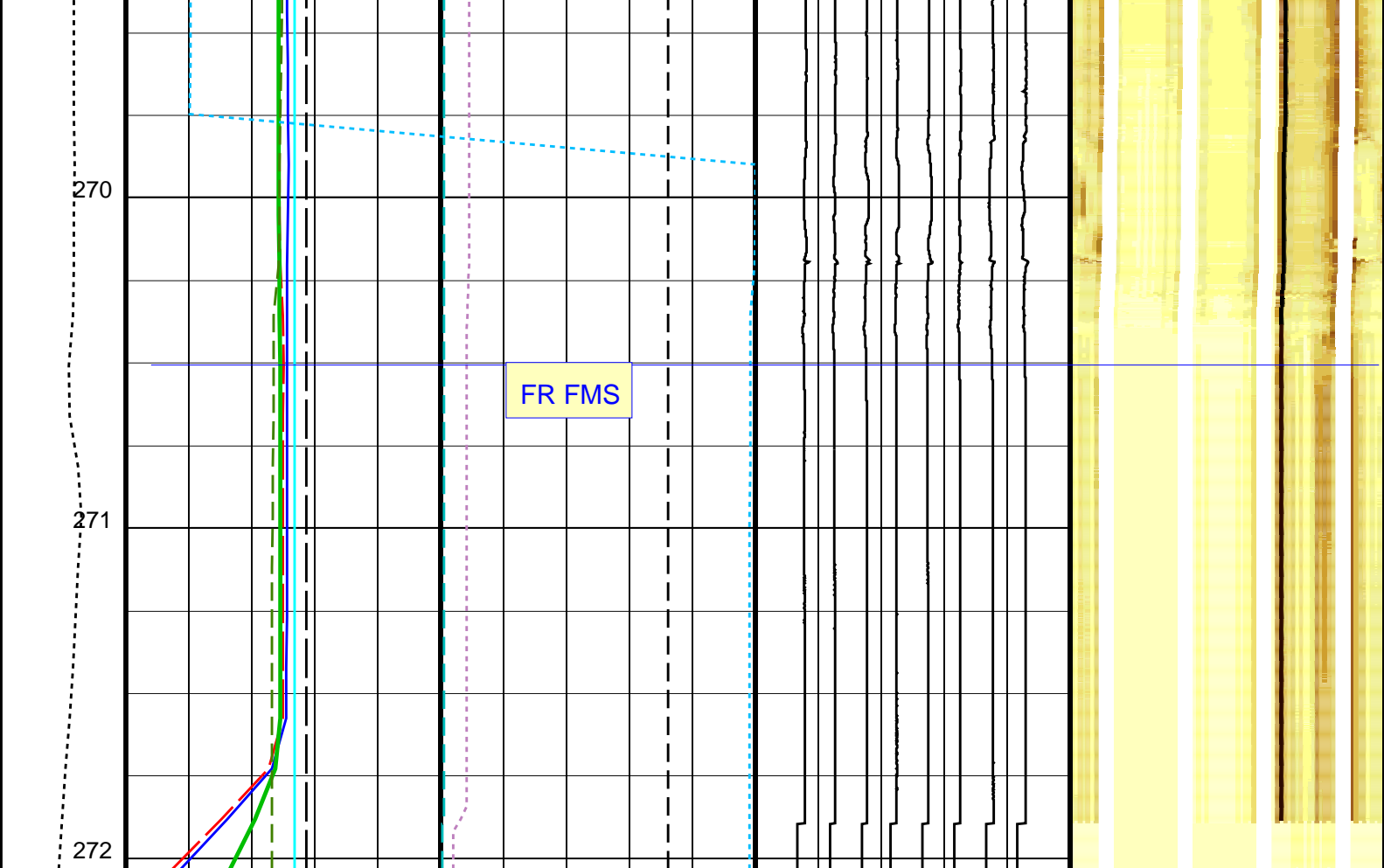
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HNGS Spectroscopy Gamma
Ray (HSGR)
0 (GAPI) 100

Data Button 8 - Varies with
RBS (U-MEST_RB8)
-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	-8.51986	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
DSST-B: Dipole Shear Imager - B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0214685	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.973109	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.963734	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-1081.3	M
PP	Playback Processing	NORMAL	

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:20 Graphics File Created: 21-Sep-2013 12:59

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_022LUP	FN:21	PRODUCER	20-Sep-2013 04:13	1353.3 M	1038.6 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_046PUP	FN:52	PRODUCER	21-Sep-2013 12:59
CLIENT	FMS_DSI_NGS_046PUC	FN:53	CUSTOMER	21-Sep-2013 12:59

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner – B (Slim) Wellsite Calibration – Caliper Calibration							
Before: Calibration out of date 22-May-2013 19:08							
Caliper 1 Zero Measurement	12.00	N/A	12.11	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.10	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.21	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.37	N/A	N/A	N/A	IN
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 20-Sep-2013 2:32							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	743	N/A	N/A	N/A	
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 20-Sep-2013 2:32							
TEMPERATURE REFERENCE :	N/A	N/A	23	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	9	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	507	N/A	N/A	N/A	
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 29-Jul-2013 20:46 Before: 19-Sep-2013 18:19 After: 19-Sep-2013 22:02							
Na 511 Peak Loc	40.00	39.74	39.66	39.56	-0.09800	1.000	
Na 511 Peak Res	15.50	15.31	15.17	16.33	1.168	2.000	%
High Voltage	1150	1168	1176	1177	0.3591	N/A	V
Na 1785 Peak Loc	142.6	142.6	142.6	141.8	-0.8471	7.000	
Na 1785 Peak Res	8.500	9.002	8.753	9.095	0.3424	2.000	%
Temperature	15.50	21.46	30.57	29.49	-1.081	N/A	DEGC
Na Count Rate	45.00	15.10	13.57	12.85	-0.7143	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 29-Jul-2013 20:46 Before: 19-Sep-2013 18:19 After: 19-Sep-2013 22:02							
Na 511 Peak Loc	40.00	39.58	39.77	39.66	-0.1100	1.000	
Na 511 Peak Res	15.50	16.04	16.03	15.80	-0.2308	2.000	%
High Voltage	1150	1093	1110	1111	1.164	N/A	V
Na 1785 Peak Loc	142.6	141.7	140.4	142.4	2.014	7.000	
Na 1785 Peak Res	8.500	9.499	9.518	8.749	-0.7685	2.000	%
Temperature	15.50	21.65	31.21	31.20	-0.01138	N/A	DEGC
Na Count Rate	45.00	14.93	13.61	12.82	-0.7925	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 29-Jul-2013 20:46 Before: 19-Sep-2013 18:19 After: 19-Sep-2013 22:02							
Coincidence Count Rate Ratio	1.000	1.015	0.9964	1.002	0.005705	0.05000	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 19-Sep-2013 18:19							
EDTC Z-Axis Acceleration	9.810	N/A	9.759	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: 19-Sep-2013 18:15 After: 19-Sep-2013 21:58							
Gamma Ray (Jig – Bkg)	154.9	N/A	154.9	157.4	2.498	14.08	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	167.7	2.660	15.00	GAPI

Micro Electrical Scanner – B (Slim) / Equipment Identification

Primary Equipment:

MEST Sonde – B

MEST Preamplifier Cartridge – AB

MEDS – B

MEPC – AB

724

807

GPIT Cartridge – AC	GPIC – AC	840
MEST Acquisition Cartridge – A	MEAC – A	875
Auxiliary Equipment:		
MEST–B Preamplifier Cartridge Housing	MEPH – A	702
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	769

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

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

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS – BA	194
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		39.74	Master		15.31	Master		1168
Before		39.66	Before		15.17	Before		1176
After		39.56	After		16.33	After		1177
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		142.6	Master		9.002	Master		21.46
Before		142.6	Before		8.753	Before		30.57
After		141.8	After		9.095	After		29.49
	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		15.10						
Before		13.57						
After		12.85						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 29-Jul-2013 20:46			Before: 19-Sep-2013 18:19			After: 19-Sep-2013 22:02		

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		39.58	Master		16.04	Master		1093
Before		39.77	Before		16.03	Before		1110
After		39.66	After		15.80	After		1111
	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		141.7	Master		9.499	Master		21.65
Before		140.4	Before		9.518	Before		31.21
After		142.4	After		8.749	After		31.20
	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		14.93
Before		13.61
After		12.82
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 29-Jul-2013 20:46 Before: 19-Sep-2013 18:19 After: 19-Sep-2013 22:02

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		1.015
Before		0.9964
After		1.002
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	

Master: 29-Jul-2013 20:46
Before: 19-Sep-2013 18:19
After: 19-Sep-2013 22:02

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		9.759
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	

Before: 19-Sep-2013 18:19

Enhanced DTS Cartridge Wellsite Calibration									
Detector Calibration									
Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value	
Before		7.622	Before		154.9	Before		165.0	
After		7.111	After		157.4	After		167.7	
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			140.8 (Minimum) 154.9 (Nominal) 169.0 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)		

Before: 19-Sep-2013 18:15 After: 19-Sep-2013 21:58

<p>Company: Lamont Doherty Earth Observatory</p> <p>Well: Expedition 346, Site U1430B</p> <p>Field: Asian Monsoon</p> <p>Rig: JOIDES Resolution</p>	
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Country: **USA**

FMS Microresistivity