



Company: Integrated Ocean Discovery Program

Well: Expedition 353, Site U1445A BB-5

Field: Indian Monsoon

Rig: JOIDES Resolution Ocean: Indian

JOIDES Resolution Indian Monsoon Location: N17* 44.7217' Well: Expedition 353, Site U1445A BB-5 Company: Integrated Ocean Discovery Program											Run 1	Run 2	Run 3
Formation Micro Scanner (FMS) Dipole Shear Sonic (DSI) Dual Axis Caliper / Gamma Ray													
LOCATION Latitude: N17* 44.7217' Longitude: E84* 47.2518'			Elev.: K.B. -2513.00 m G.L. 0.00 m D.F. -2513.00 m										
Permanent Datum: Sea Floor Log Measured From: Sea Floor Drilling Measured From: Sea Floor			Elev.: 0.00 m 0.00 m above Perm. Datum										
API Serial No.		Max. Hole Devi. 0 deg	Longitude E		Latitude N								
Logging Date	6-Jan-2015						Logging Date						
Run Number	1						Run Number						
Depth Driller	672.6 m						Depth Driller						
Schlumberger Depth	449 m						Schlumberger Depth						
Bottom Log Interval	449 m						Bottom Log Interval						
Top Log Interval	0 m						Top Log Interval						
Casing Driller Size @ Depth	5.500 in	@	84.8 m		@		Casing Driller Size @ Depth		@				
Casing Schlumberger	84 m						Casing Schlumberger						
Bit Size	11.438 in						Bit Size						
Type Fluid In Hole	Seawater						Type Fluid In Hole						
MUD	Density	Viscosity	1.1983 g/cm3				MUD	Density	Viscosity				
	Fluid Loss	PH						Fluid Loss	PH				
	Source Of Sample	N/A						Source Of Sample					
RM @ Measured Temperature			@		@		RM @ Measured Temperature		@				
RMF @ Measured Temperature			@		@		RMF @ Measured Temperature		@				
RMC @ Measured Temperature			@		@		RMC @ Measured Temperature		@				
Source RMF	RMC	N/A	N/A				Source RMF	RMC					
RM @ MRT	RMF @ MRT	@ 13	@ 13	@	@		RM @ MRT	RMF @ MRT	@	@			
Maximum Recorded Temperatures	13 degC						Maximum Recorded Temperatures						
Circulation Stopped	Time	6-Jan-2015	10:30				Circulation Stopped	Time					
Logger On Bottom	Time	6-Jan-2015	16:15				Logger On Bottom	Time					
Unit Number	Location	627314	Houma				Unit Number	Location					
Recorded By	K. Swain						Recorded By						
Witnessed By	K. Werts, K. Taladay, P. Jaiswal						Witnessed By						

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OTHER SERVICES1

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

OTHER SERVICES2

OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1

Hole drilled with APC/XCB coring bit and bottom hole assembly (BHA). 11 7/16 " BS
 Coring concluded approximately 8 hours prior to logging.
 Drill pipe at 84 mbsf with a logging bit for logging thru pipe.
 Barite added to mud to fill hole before logging at 10 lb/gal.
 Dipole sonic run in SAMx Both Crossed Dipole for Anisotropy analysis with post processing required and SAM4 Compressional monopole.
 Compressional log optimized in playback for proper labeling of DTRP.
 DTRP is the compressional velocity curve in us/ft.
 Depth originally recorded from drill floor; played back with sea floor as reference zero.
 All logs presented in measured depth below sea floor (MBSF).
 Maximum observed temperature on the HRLA temperature was 12.8 degC.





REMARKS: RUN NUMBER 2

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

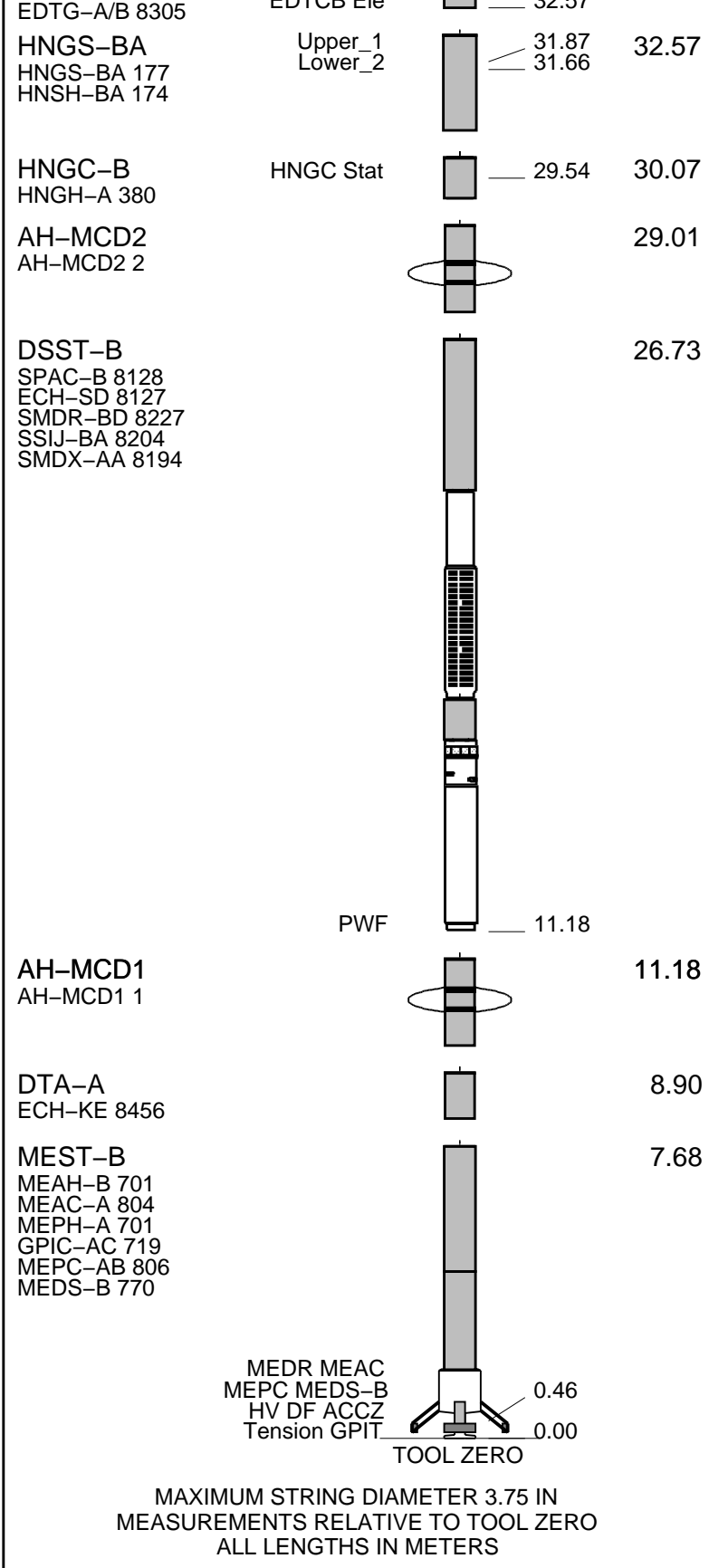
RUN 2		
SERVICE ORDER #:		
PROGRAM VERSION:		
FLUID LEVEL:		
LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

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

DOWNHOLE EQUIPMENT				
LEH-QT			35.88	
LEH-QT 301	MDSB_EDTC		34.55	34.99
AH-369	Mud Tempe CTEM		33.49	
EDTC-B	Gamma Ray		32.92	34.55
EDTH-B 8303	EFTB DIAG			
EDTC-B 8317	TelStatus EDTCB_Elc		32.57	

RUN 2	



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

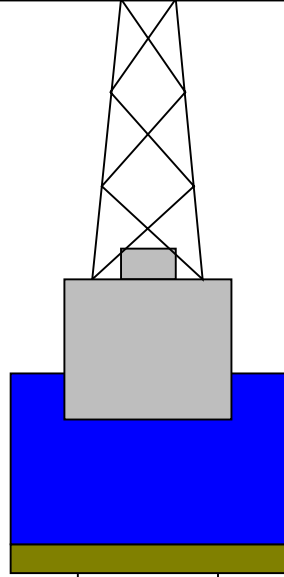
Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-2513

-2513

-2502



4.1



0

3.80

84.80

11.438

672.6

Sea Floor

Open Hole

Total Depth

Input DLIS Files

DEFAULT FMS_DSI_NGS_024LUP FN:42 PRODUCER 06-Jan-2015 18:12 2960.4 M 2497.1 M

Output DLIS Files

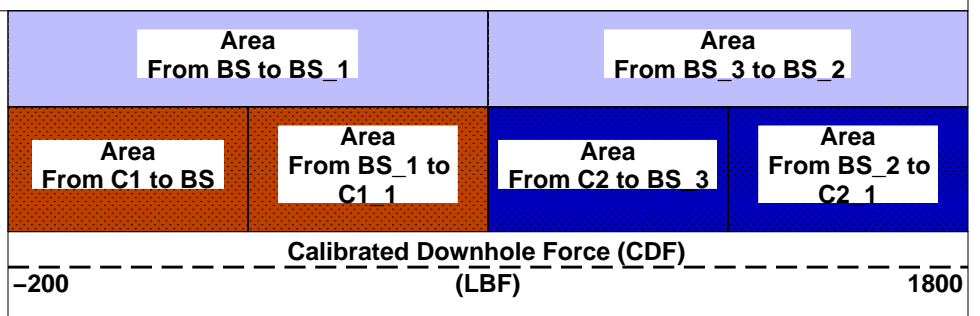
DEFAULT FMS_DSI_NGS_032PUP FN:52 PRODUCER 07-Jan-2015 02:23 451.1 M -11.7 M

OP System Version: 19C0-187

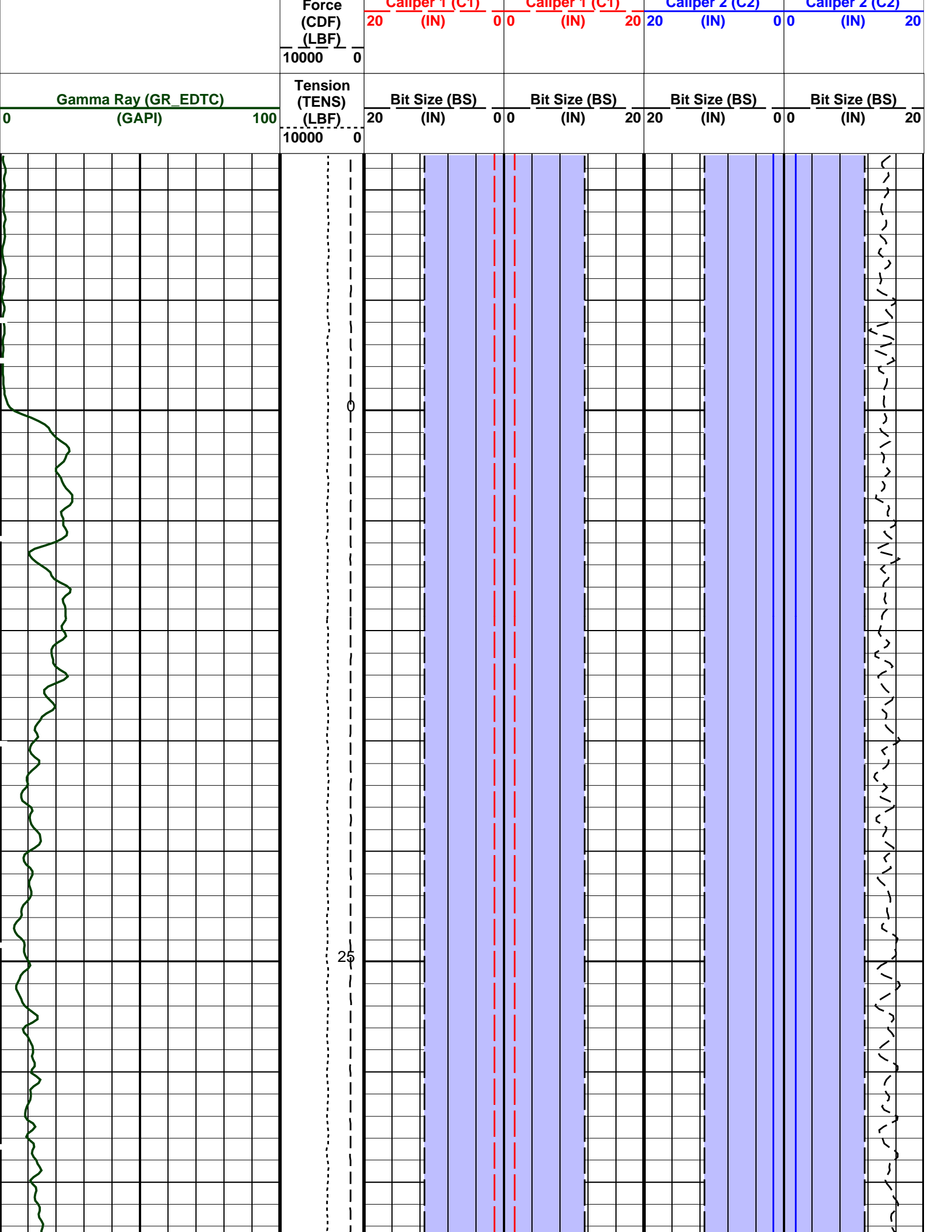
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

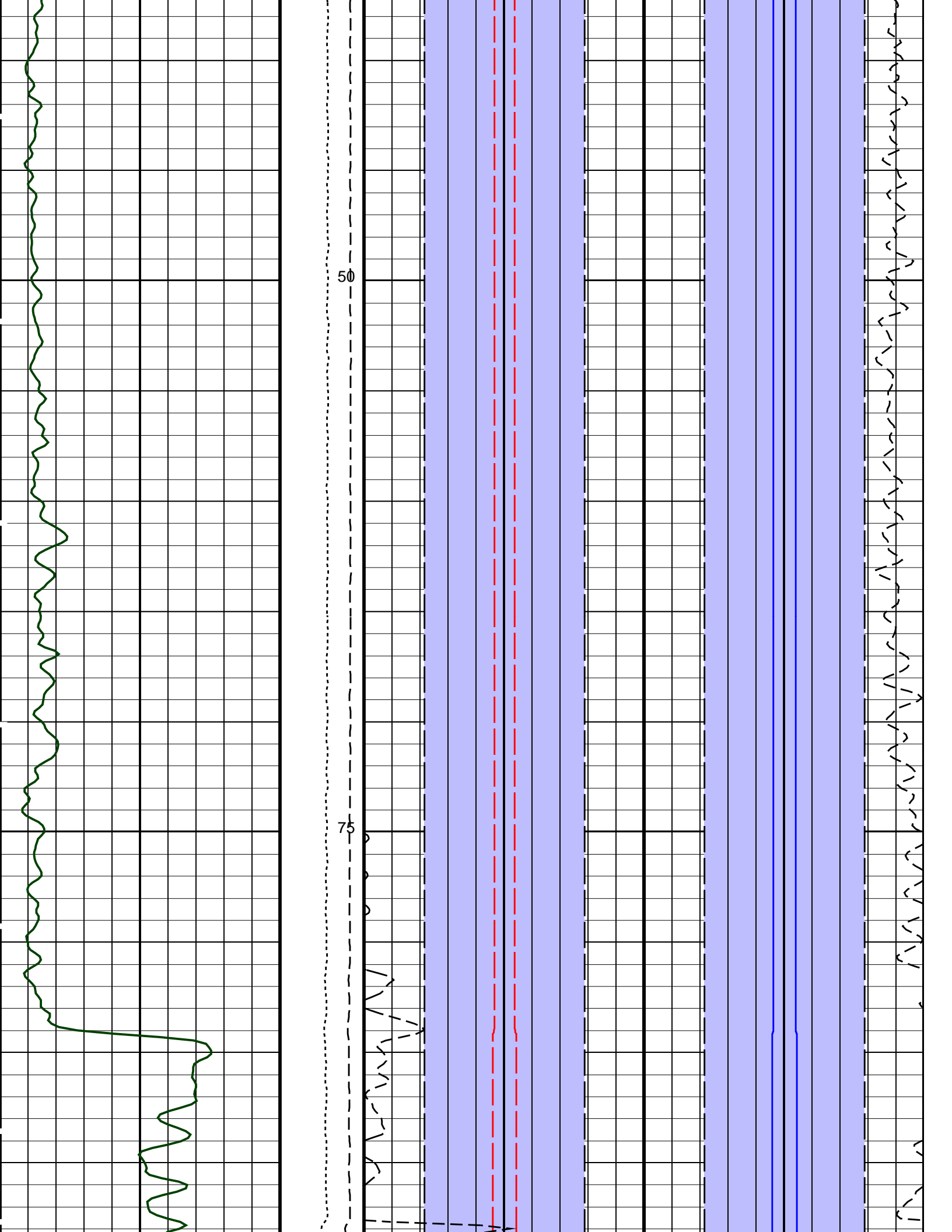
PIP SUMMARY

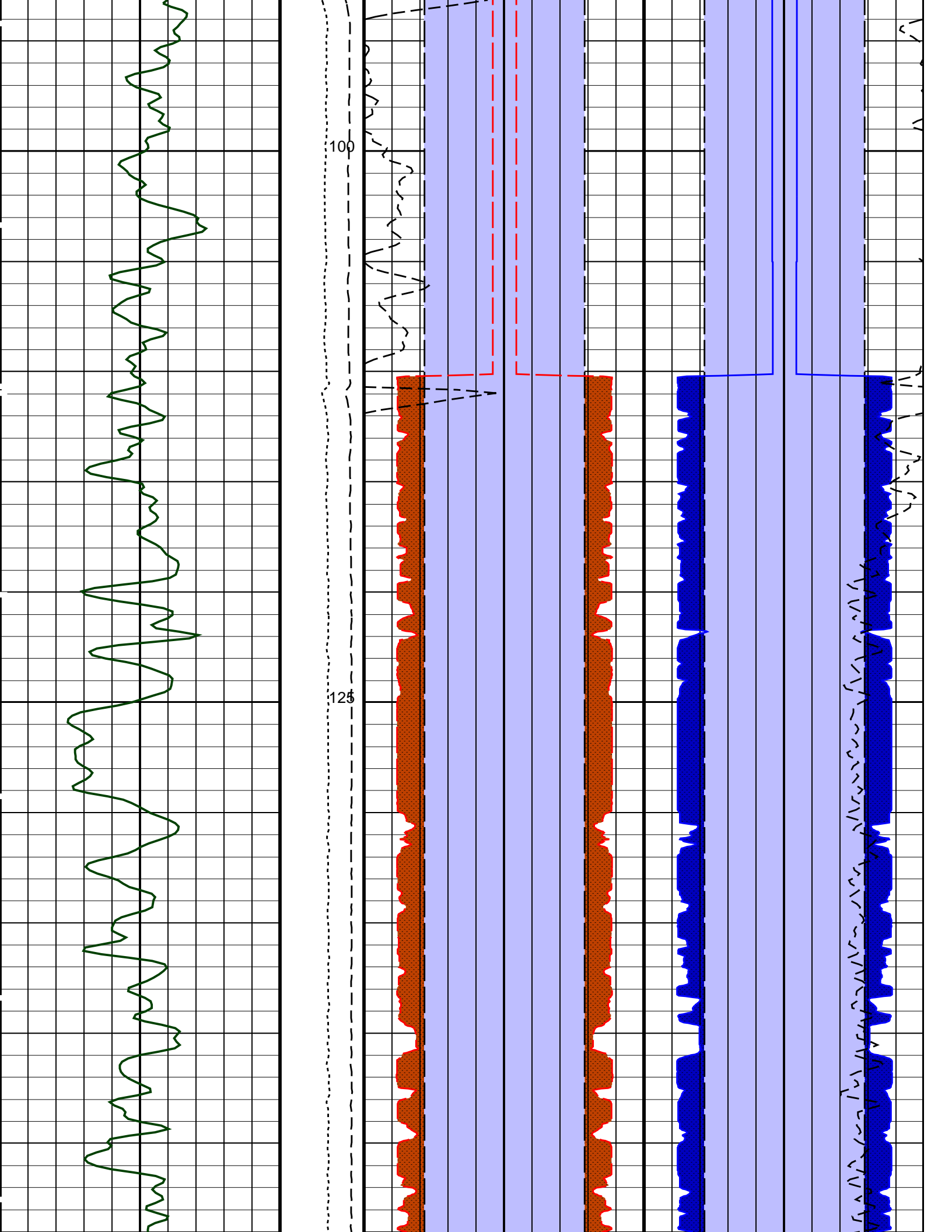
Time Mark Every 60 S

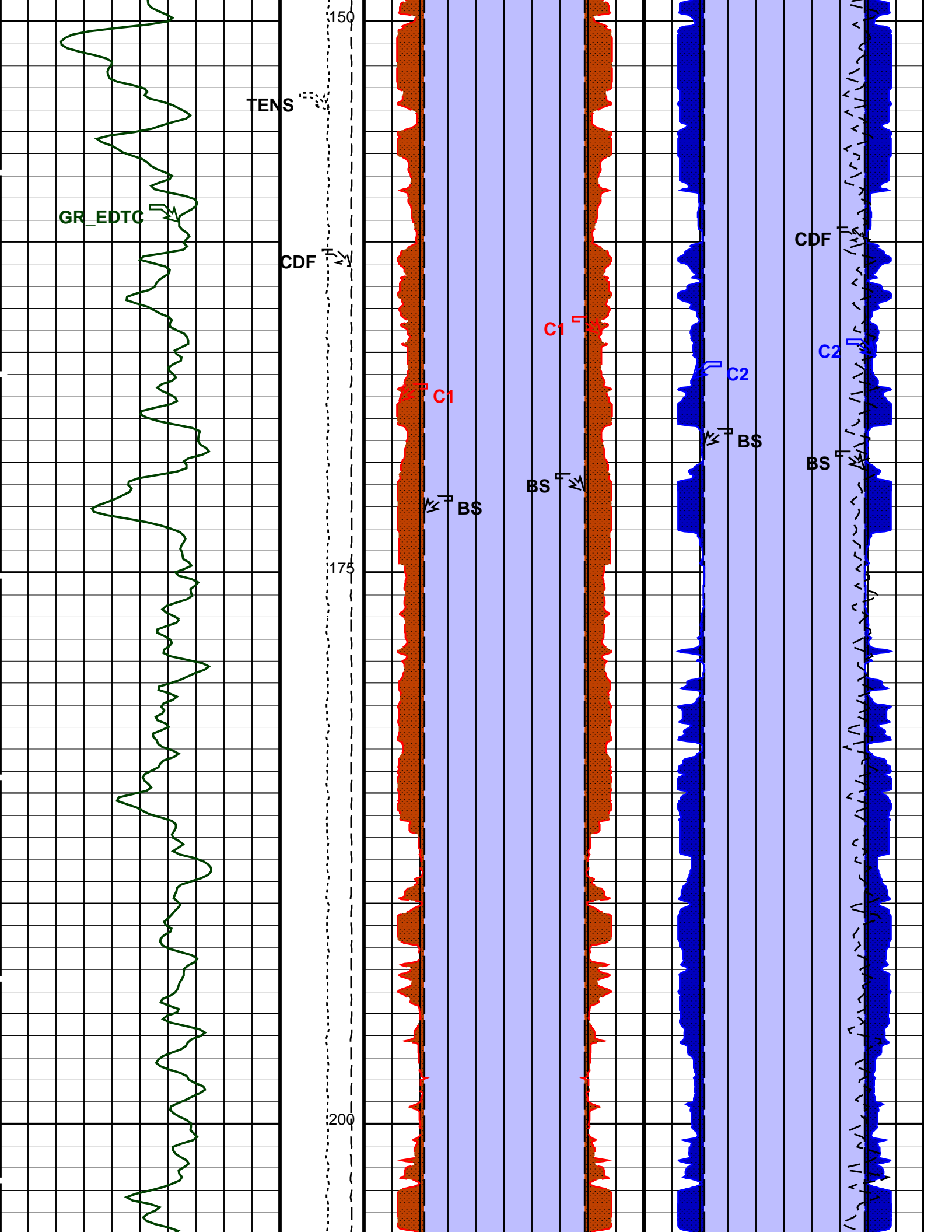


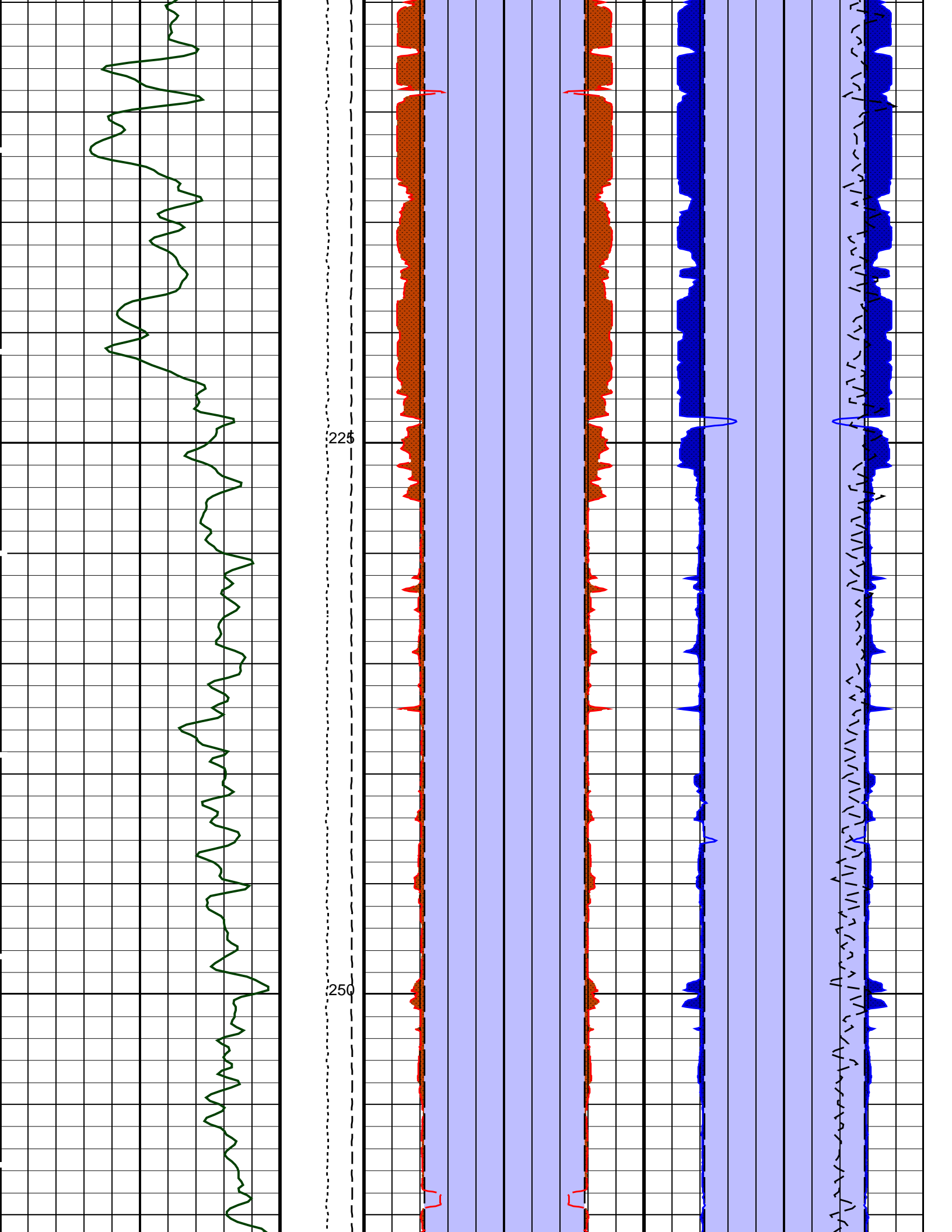
Calibrated Downhole	Coliner 1 (C1)	Coliner 1 (C1)	Coliner 2 (C2)	Coliner 2 (C2)
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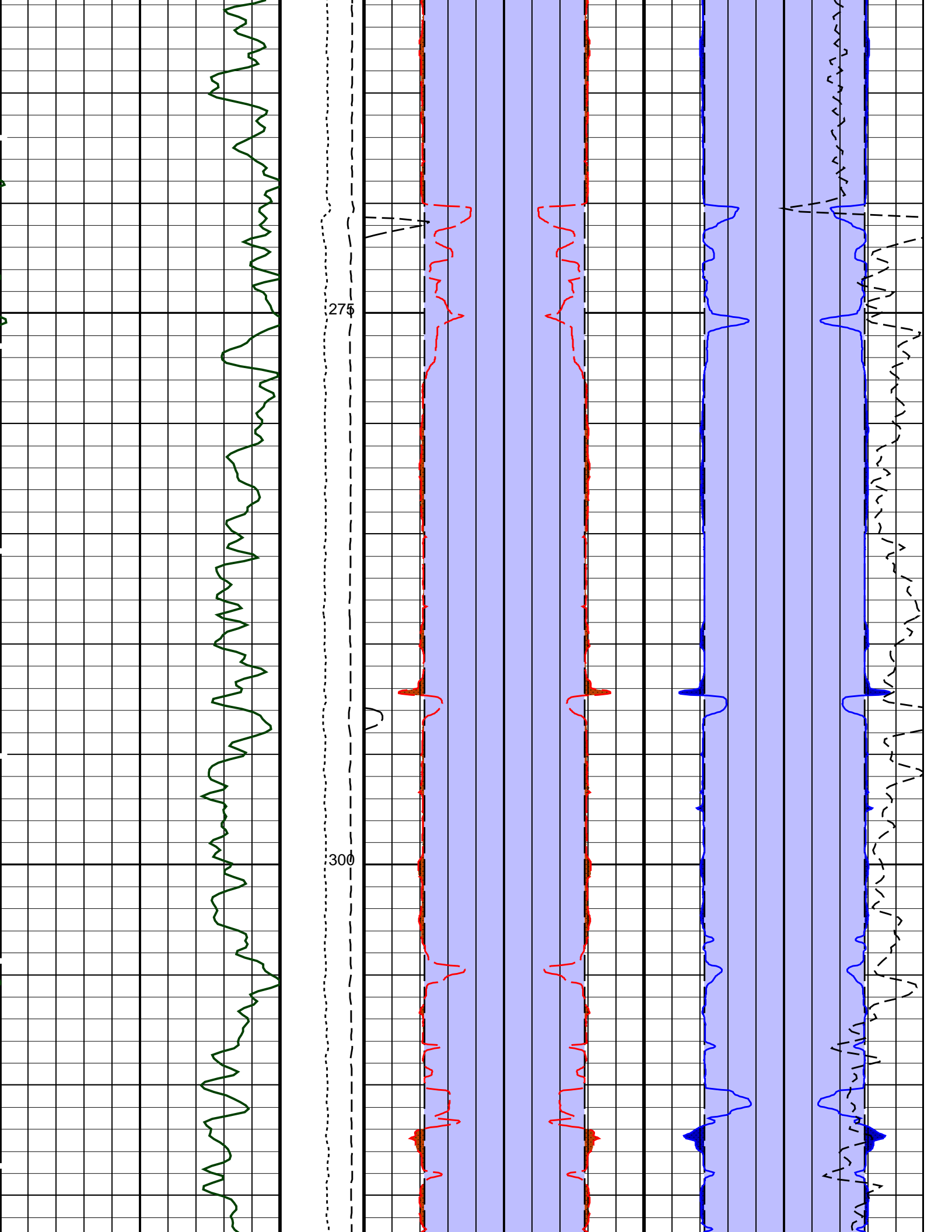


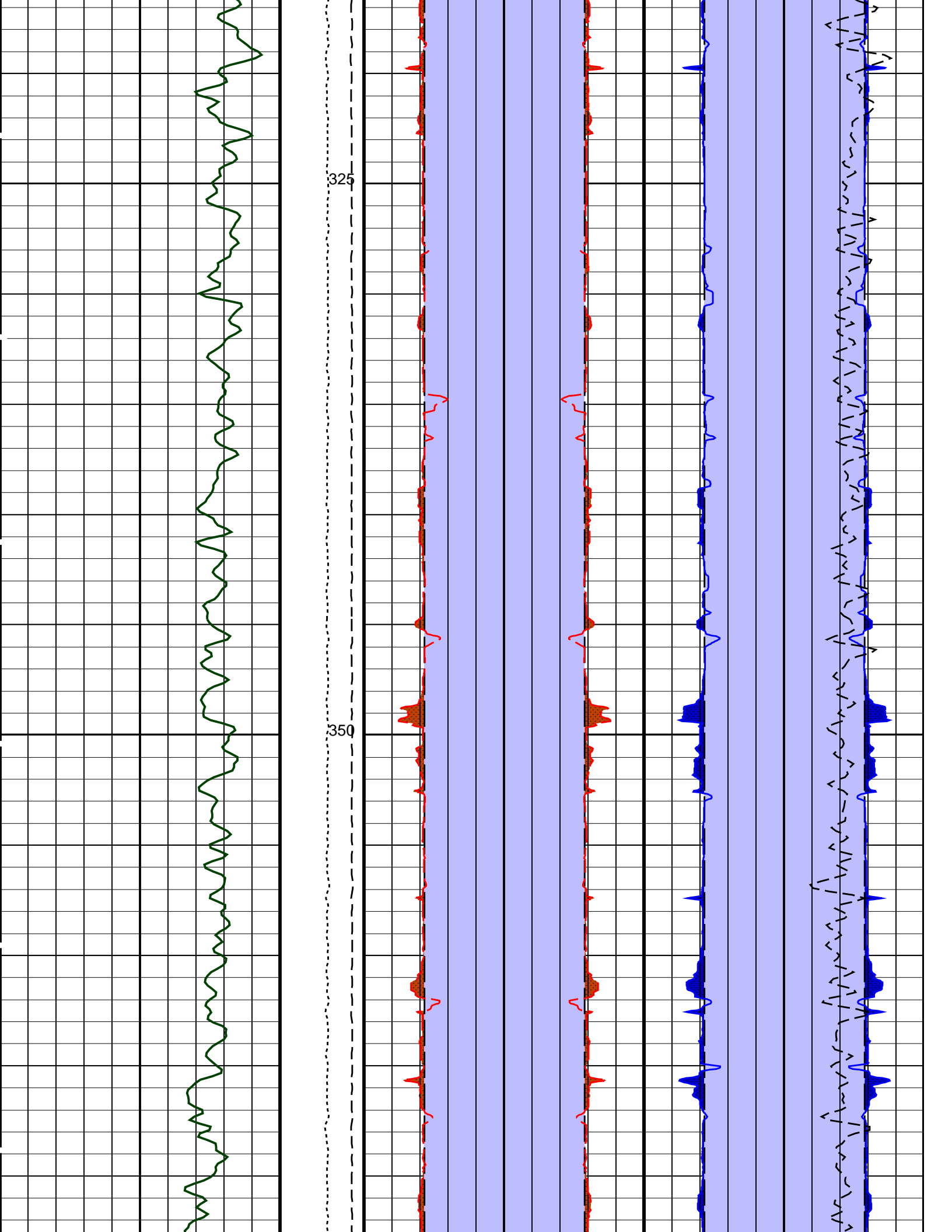


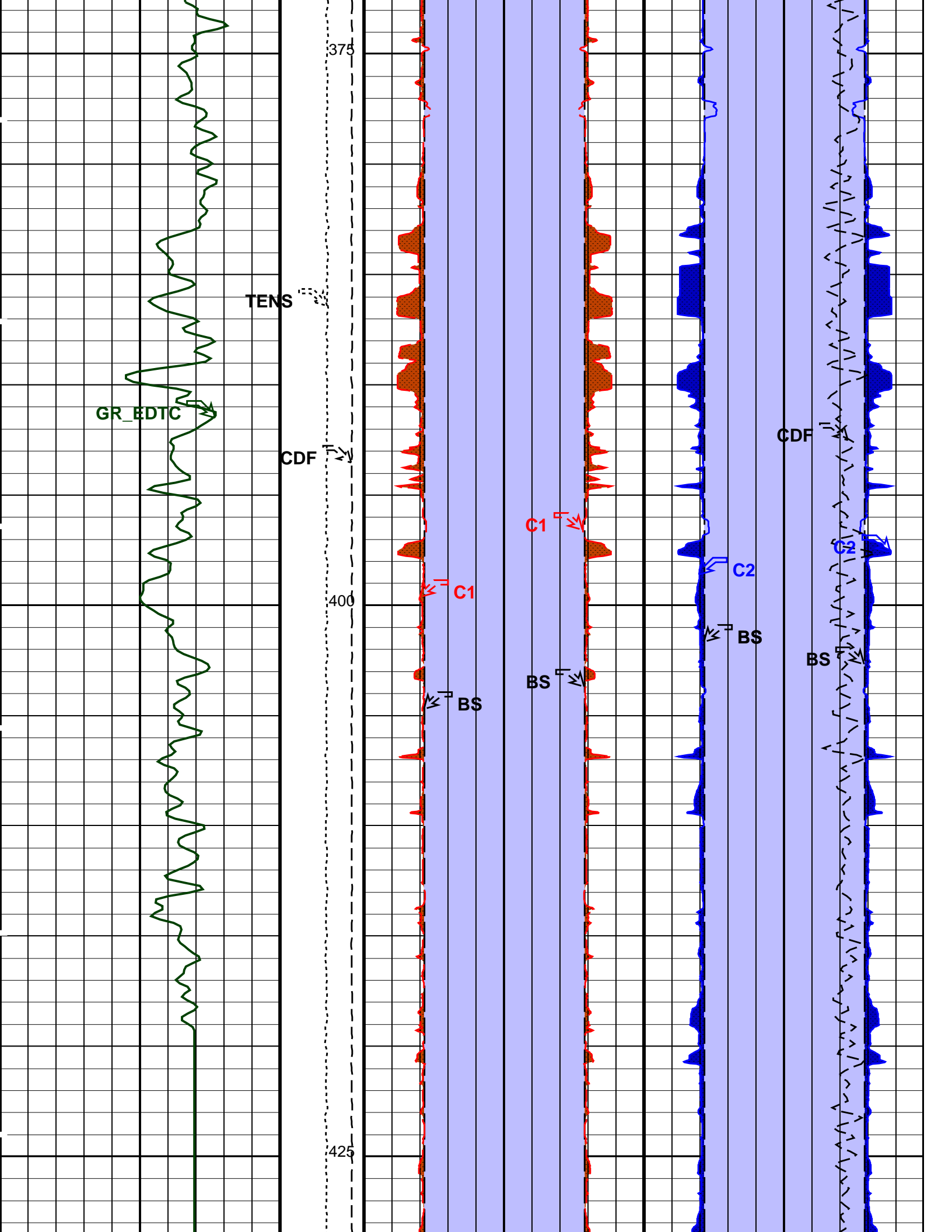


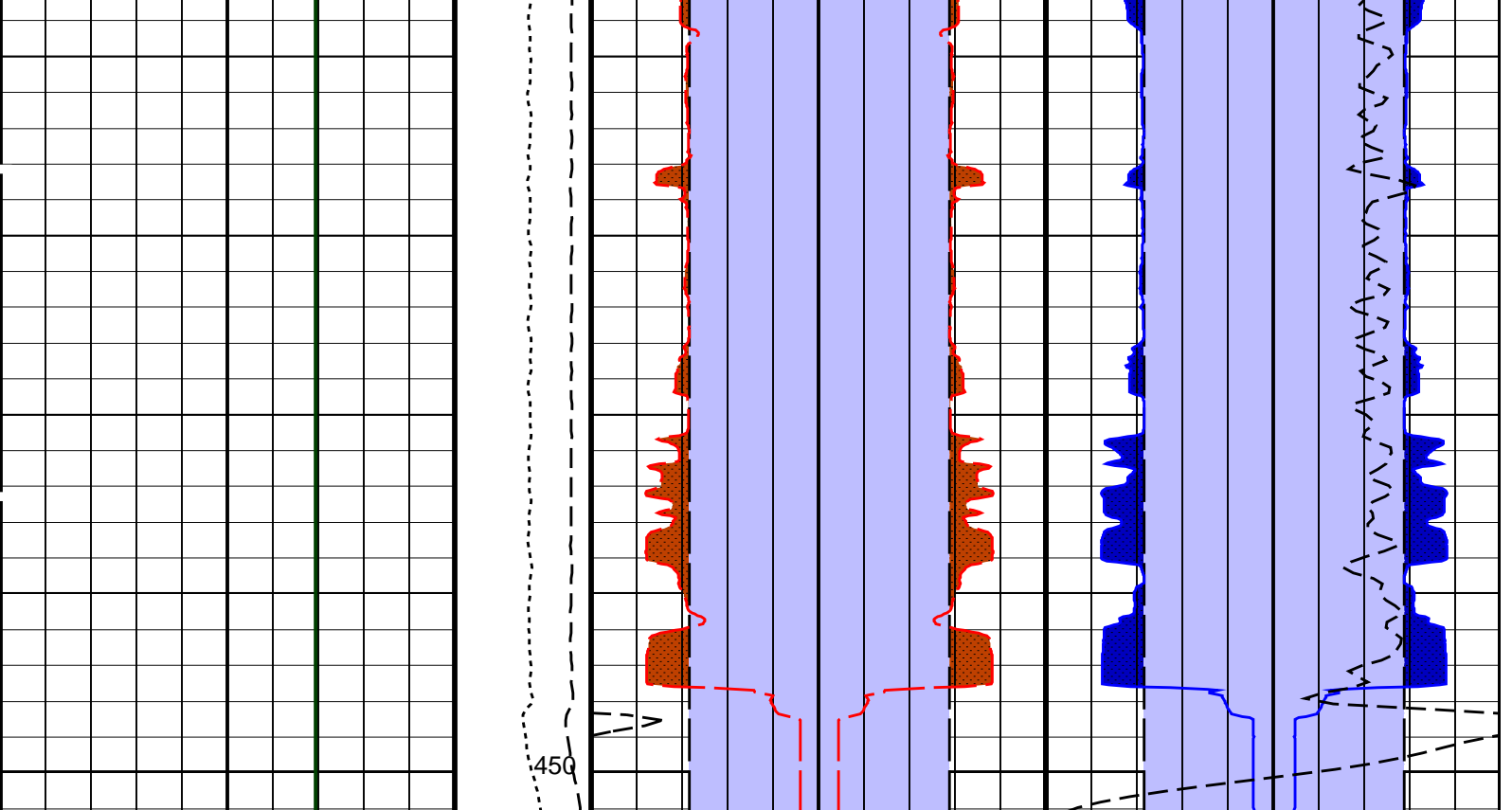




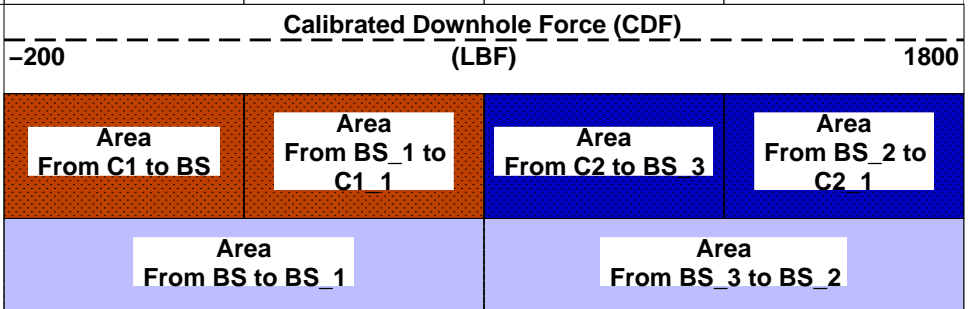








Gamma Ray (GR_EDTC) (GAPI)	Tension (TENS) (LBF)	Bit Size (BS) (IN)	Bit Size (BS) (IN)	Bit Size (BS) (IN)	Bit Size (BS) (IN)
0 100	10000 0	20 0 0	0 0 20	20 0 0	0 0 20
	Calibrated Downhole Force (CDF) (LBF)	Caliper 1 (C1) (IN)	Caliper 1 (C1) (IN)	Caliper 2 (C2) (IN)	Caliper 2 (C2) (IN)
	10000 0	20 0 0	0 0 20	20 0 0	0 0 20



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MEST-B:	Micro Electrical Scanner - B (Slim)	
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	-0.884445 DEG
MLM	MEST Logging Mode	SCAN1800
MRTE	Magneto Reference Temperature	23 DEGC
PTYP	Pad Type - High Resolution or Medium Extended Coverage	
RBS	Resistivity Button Selection	HR_SLIM_0_12_IN AUTO
TEMS	GPIT Temperature Sensor Used	BOTH
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO

		GAIN_2	
XGAI	Gain	MANUAL	
XMOD	Emex Mode	OFFSET_0	
XOFF	Offset	0	V
XVOL	Emex Voltage		
	DSST-B: Dipole Shear Imager - B		
AGC1	Automatic Gain Control 1	ON	
AGC2	Automatic Gain Control 2	ON	
AGC3	Automatic Gain Control 3	ON	
AGC4	Automatic Gain Control 4	ON	
AGC5	Automatic Gain Control 5	ON	
AGCX	Automatic Gain Control X	ON	
BARS_MTR1	Length for Monopole Transmitter to Receiver 1	2.7432	M
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
CASF	Label Casing Function - Monopole P&S	50	
CDTS	C-Delta-T Shale	100	US/F
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	120	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	210	US/F
DDE1	Digitizing Delay 1	0	US
DDE2	Digitizing Delay 2	0	US
DDE3	Digitizing Delay 3	0	US
DDE4	Digitizing Delay 4	0	US
DDE5	Digitizing Delay 5	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source - Dipole Shear	USE	
DLHS	Label Hole Diameter Source for SOBS Channel	AUTO	
DSHL	Label Slowness Lower Limit - Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1200	US/F
DSI1	Digitizer Sample Interval 1	10	US
DSI2	Digitizer Sample Interval 2	10	US
DSI3	Digitizer Sample Interval 3	10	US
DSI4	Digitizer Sample Interval 4	10	US
DSI5	Digitizer Sample Interval 5	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	195	US/F
DTM	Delta-T Matrix	56	US/F
DTSS	Shear Delta-T Source for DTSM Channel	UPPER_DIPOLE	
DWC1	Digitizer Word Count 1	512	
DWC2	Digitizer Word Count 2	512	
DWC3	Digitizer Word Count 3	512	
DWC4	Digitizer Word Count 4	512	
DWC5	Digitizer Word Count 5	512	
DWCX	Digitizer Word Count X	512	
FDE1	Firing Delay 1	0	
FDE2	Firing Delay 2	0	
FDE3	Firing Delay 3	0	
FDE4	Firing Delay 4	0	
FDE5	Firing Delay 5	0	
FDEX	Firing Delay X	0	
FGM5	First Motion Gate Moveout 5	40	US/F
FGMX	First Motion Gate Moveout X	40	US/F
FILG	Label Fill Gap Control - Monopole P&S	COMP_SHEAR	
FMG5	First Motion Minimum Gate 5	500	US
FMGX	First Motion Minimum Gate X	500	US
FMLL	Slowness Lower Limit - FMD	40	US/F
FMRC	Restart Control - FMD	CONTINUE	
FMT5	First Motion Threshold 5	UP	
FMTX	First Motion Threshold X	NONE	
FMUL	Slowness Upper Limit - FMD	180	US/F
FNC5	First Motion Noise Counter Input 5	ALO	
FNCX	First Motion Noise Counter Input X	ALO	
FPM	Processing Mode - FMD	NONE	
FTD5	First Motion Threshold Direction 5	UP	
FTDX	First Motion Threshold Direction X	UP	
GAI1	Manual Gain 1	10	
GAI2	Manual Gain 2	10	
GAI3	Manual Gain 3	10	
GAI4	Manual Gain 4	16	
GAI5	Manual Gain 5	16	
GAIX	Manual Gain X	10	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GDT1	Gain Delta-T 1	800	US/F
GDT2	Gain Delta-T 2	800	US/F
GDT3	Gain Delta-T 3	800	US/F
GDT4	Gain Delta-T 4	160	US/F
GDT5	Gain Delta-T 5	160	US/F
GDTX	Gain Delta-T X	800	US/F
GGRD	Geothermal Gradient	0.018227	DC/M
GIN1	Gain Interval 1	15360	US
GIN2	Gain Interval 2	15360	US
GIN3	Gain Interval 3	15360	US
GIN4	Gain Interval 4	2560	US
GIN5	Gain Interval 5	4096	US

GIN5	Gain Interval 5	15360	US
GINX	Gain Interval X		
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HPF1	High Pass Filter 1	F80	
HPF2	High Pass Filter 2	F80	
HPF3	High Pass Filter 3	F80	
HPF4	High Pass Filter 4	F8K	
HPF5	High Pass Filter 5	F8K	
HPFX	High Pass Filter X	F80	
ISSBAR	Barite Mud Switch	BARITE	
ITTS	Integrated Transit Time Source	DTCO	
LFC	Label Formation Character - Monopole P&S	DYNAMIC	
LPF1	Low Pass Filter 1	F5K	
LPF2	Low Pass Filter 2	F5K	
LPF3	Low Pass Filter 3	F5K	
LPF4	Low Pass Filter 4	F30K	
LPF5	Low Pass Filter 5	F30K	
LPFX	Low Pass Filter X	F5K	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MAI5	Slowness Averaging Interval - FMD	42	IN
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCS	Mean Casing Slowness	57	US/F
MDS5	Multishot Delta-T Scatter - FMD	20	US
MTXG	Monopole Transmitter Geometry	186	IN
MUX1	Sum Difference Multiplexor Input 1	RR	
MUX2	Sum Difference Multiplexor Input 2	RR	
MUX3	Sum Difference Multiplexor Input 3	RR	
MUX4	Sum Difference Multiplexor Input 4	RR	
MUX5	Sum Difference Multiplexor Input 5	RR	
MUXX	Sum Difference Multiplexor Input X	RR	
NTI5	Number Threshold Items 5	0	
NTIX	Number Threshold Items X	0	
NWI1	Number Waveform Items 1	0	
NWI2	Number Waveform Items 2	0	
NWI3	Number Waveform Items 3	0	
NWI4	Number Waveform Items 4	8	
NWI5	Number Waveform Items 5	0	
NWIX	Number Waveform Items X	32	
NWS1	Number Waveforms Stacked 1	1	
NWS2	Number Waveforms Stacked 2	1	
NWS3	Number Waveforms Stacked 3	1	
NWS4	Number Waveforms Stacked 4	1	
NWS5	Number Waveforms Stacked 5	1	
NWSX	Number Waveforms Stacked X	1	
RATE	Firing Rate	R7	
RSMN	Label Shear/Compressional Minimum Ratio - Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio - Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 - Lower Dipole Mode	OFF	
SAM2	DSST Sonic Acquisition Mode 2 - Upper Dipole Mode	OFF	
SAM3	DSST Sonic Acquisition Mode 3 - Monopole Mode for Stoneley	OFF	
SAM4	DSST Sonic Acquisition Mode 4 - Monopole Mode for P&S	EVEN	
SAM5	DSST Sonic Acquisition Mode 5 - Monopole Mode for FMD	OFF	
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	BCR	
SAS1	STC Sonic Array Status - Lower Dipole	255	
SAS2	STC Sonic Array Status - Upper Dipole	255	
SAS3	STC Sonic Array Status - Monopole Stoneley	255	
SAS4	STC Sonic Array Status - Monopole P&S	255	
SAS5	Sonic Array Status - FMD	255	
SBO1	STC Search Band Offset - Lower Dipole	3000	US
SBO2	STC Search Band Offset - Upper Dipole	3000	US
SBO3	STC Search Band Offset - Monopole Stoneley	2000	US
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW1	STC Search Bandwidth - Lower Dipole	8000	US
SBW2	STC Search Bandwidth - Upper Dipole	8000	US
SBW3	STC Search Bandwidth - Monopole Stoneley	6000	US
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC1	STC Formation Character - Lower Dipole	SELECTABLE	
SFC2	STC Formation Character - Upper Dipole	SELECTABLE	
SFC3	STC Formation Character - Monopole Stoneley	SELECTABLE	
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM1	STC Filter - Lower Dipole	B1-3K	
SFM2	STC Filter - Upper Dipole	B1-2K	
SFM3	STC Filter - Monopole Stoneley	B.5-1.5K	
SFM4	STC Filter - Monopole P&S	B3-20K	

SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235	US/F
SHT	Surface Hole Temperature	20	DEGC
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL1	STC Slowness Lower Limit – Lower Dipole	75	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	75	US/F
SLL3	STC Slowness Lower Limit – Monopole Stoneley	75	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
SST1	STC Slowness Step – Lower Dipole	4	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SST3	STC Slowness Step – Monopole Stoneley	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SSW3	STC Source Waveform – Monopole Stoneley	WF_SAM3	
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	75	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	1200	US/F
SUL1	STC Slowness Upper Limit – Lower Dipole	1200	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	1200	US/F
SUL3	STC Slowness Upper Limit – Monopole Stoneley	1200	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
SWD3	STC Slowness Width – Monopole Stoneley	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBDB	Tool String Bottom to DSST Bottom	440.25	IN
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TBF3	STC Time for Baseline Fill – Monopole Stoneley	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TLL3	STC Time Lower Limit – Monopole Stoneley	600	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST1	STC Time Step – Lower Dipole	200	US
TST2	STC Time Step – Upper Dipole	200	US
TST3	STC Time Step – Monopole Stoneley	200	US
TST4	STC Time Step – Monopole P&S	50	US
TTDB	Tool String Top to DSST Bottom	972.26	IN
TUL1	STC Time Upper Limit – Lower Dipole	20200	US
TUL2	STC Time Upper Limit – Upper Dipole	20200	US
TUL3	STC Time Upper Limit – Monopole Stoneley	18200	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWA1	Transmitter Waveform Amplitude 1	179	
TWA2	Transmitter Waveform Amplitude 2	179	
TWA3	Transmitter Waveform Amplitude 3	179	
TWA4	Transmitter Waveform Amplitude 4	150	
TWA5	Transmitter Waveform Amplitude 5	150	
TWAX	Transmitter Waveform Amplitude X	179	
TWD1	STC Time Width – Lower Dipole	2000	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWD3	STC Time Width – Monopole Stoneley	2000	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWI3	STC Integration Time Window – Monopole Stoneley	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWR1	Transmitter Waveform Sample Rate 1	5	US
TWR2	Transmitter Waveform Sample Rate 2	5	US
TWR3	Transmitter Waveform Sample Rate 3	5	US
TWR4	Transmitter Waveform Sample Rate 4	5	US
TWR5	Transmitter Waveform Sample Rate 5	5	US
TWRX	Transmitter Waveform Sample Rate X	5	US
TWS1	Transmitter Waveform Select 1	0	
TWS2	Transmitter Waveform Select 2	0	
TWS3	Transmitter Waveform Select 3	0	
TWS4	Transmitter Waveform Select 4	6	
TWS5	Transmitter Waveform Select 5	6	
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFDTSP1	SAM1 Waveform Delta for Spectrum	0	US/F
WFDTSP2	SAM2 Waveform Delta for Spectrum	0	US/F
WFDTSP3	SAM3 Waveform Delta for Spectrum	0	US/F
WFDTSP4	SAM4 Waveform Delta for Spectrum	0	US/F
WFDTSPX	SAMX Waveform Delta for Spectrum	0	US/F
WFLLSP1	SAM1 Waveform Lower Limit for Spectrum	0	US
WFLLSP2	SAM2 Waveform Lower Limit for Spectrum	0	US
WFLLSP3	SAM3 Waveform Lower Limit for Spectrum	0	US
WFLLSP4	SAM4 Waveform Lower Limit for Spectrum	0	US
WFLLSPX	SAMX Waveform Lower Limit for Spectrum	0	US
WFM1	Waveform Mode 1	W1	
WFM2	Waveform Mode 2	W1	
WFM3	Waveform Mode 3	W1	

WFM3	Waveform Mode 3	W1	
WFM4	Waveform Mode 4	W1	
WFM5	Waveform Mode 5	W1	
WFMX	Waveform Mode X	W1	
WFULSP1	SAM1 Waveform Upper Limit for Spectrum	20000	US
WFULSP2	SAM2 Waveform Upper Limit for Spectrum	20000	US
WFULSP3	SAM3 Waveform Upper Limit for Spectrum	20000	US
WFULSP4	SAM4 Waveform Upper Limit for Spectrum	5000	US
WFULSPX	SAMX Waveform Upper Limit for Spectrum	20000	US
XMT1	Transmitter Select 1	NONE	
XMT2	Transmitter Select 2	NONE	
XMT3	Transmitter Select 3	NONE	
XMT4	Transmitter Select 4	MONO	
XMT5	Transmitter Select 5	MONO	
XMTX	Transmitter Select X	DUP	
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	-0.00293402	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
ISSBAR	Barite Mud Switch	BARITE	
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	20	DEGC
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.08523	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	-0.521326	
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	BARITE	
ISSBAR_EDTC	Nuclear Mud Type	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	YES	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Centered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
DIP: Dip Computation			
CSBL	DIP Tool	SHDT	
DPAD	CSB DIP Number of Levels	2L	
ELRA	Disabled Pad	NONE	
INT	Electrical Radius	0.5	IN
SANG	Correlation Interval	1.2192	M
SBUT	Correlation Search Angle	35	DEG
SDFA	DIP Set of Buttons	MSD	
	Side-by-Side Distance Factor	0.9	IN

SPAN	DIP Spanning	1/4	
STDA	Structural DIP Azimuth	0	DEG
STDI	Structural DIP Angle	0	DEG
STEP	Correlation Step	0.6096	M
DIR: Directional Survey Computation			
SPED	East Departure of Starting Point	0	M
SPND	North Departure of Starting Point	0	M
SPVD	TVD of Starting Point	0	M
TAZI	Vertical Section Azimuth	0	DEG
TIED	East Departure of Tie-in Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIND	North Departure of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.20	G/C3
DO	Depth Offset for Playback	-2509.0	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	-2511	M
TDD	Total Depth - Driller	3190.00	M
TDL	Total Depth - Logger	3189.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: BHP Vertical Scale: 1:200 Graphics File Created: 07-Jan-2015 02:23

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_024LUP	FN:42	PRODUCER	06-Jan-2015 18:12	2960.4 M	2497.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_032PUP	FN:52	PRODUCER	07-Jan-2015 02:23		
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Input DLIS Files

DEFAULT	FMS_DSI_NGS_022LUP	FN:38	PRODUCER	06-Jan-2015 17:07	2960.4 M	2636.7 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_030PUP	FN:50	PRODUCER	07-Jan-2015 02:13	450.3 M	126.6 M
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OP System Version: 19C0-187

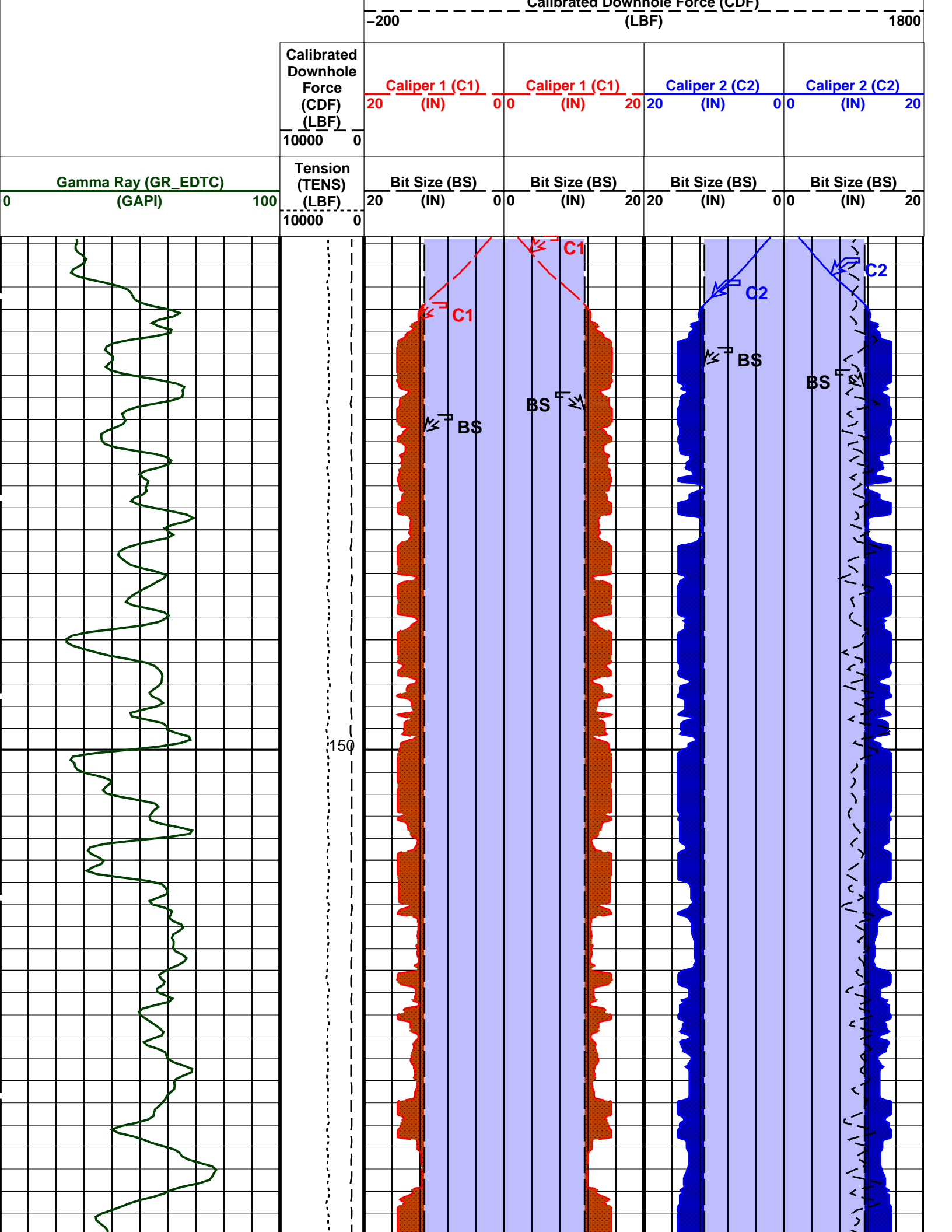
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

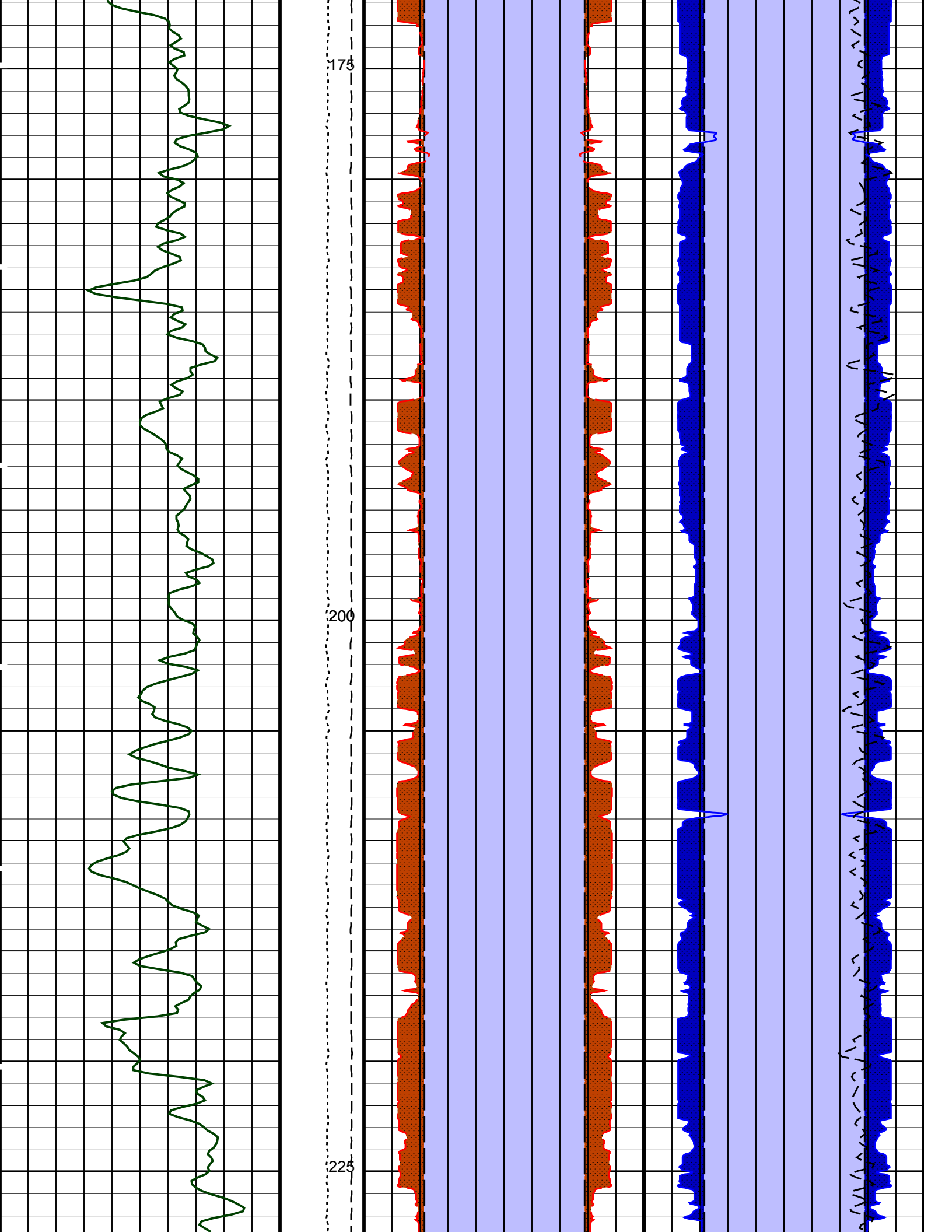
PIP SUMMARY

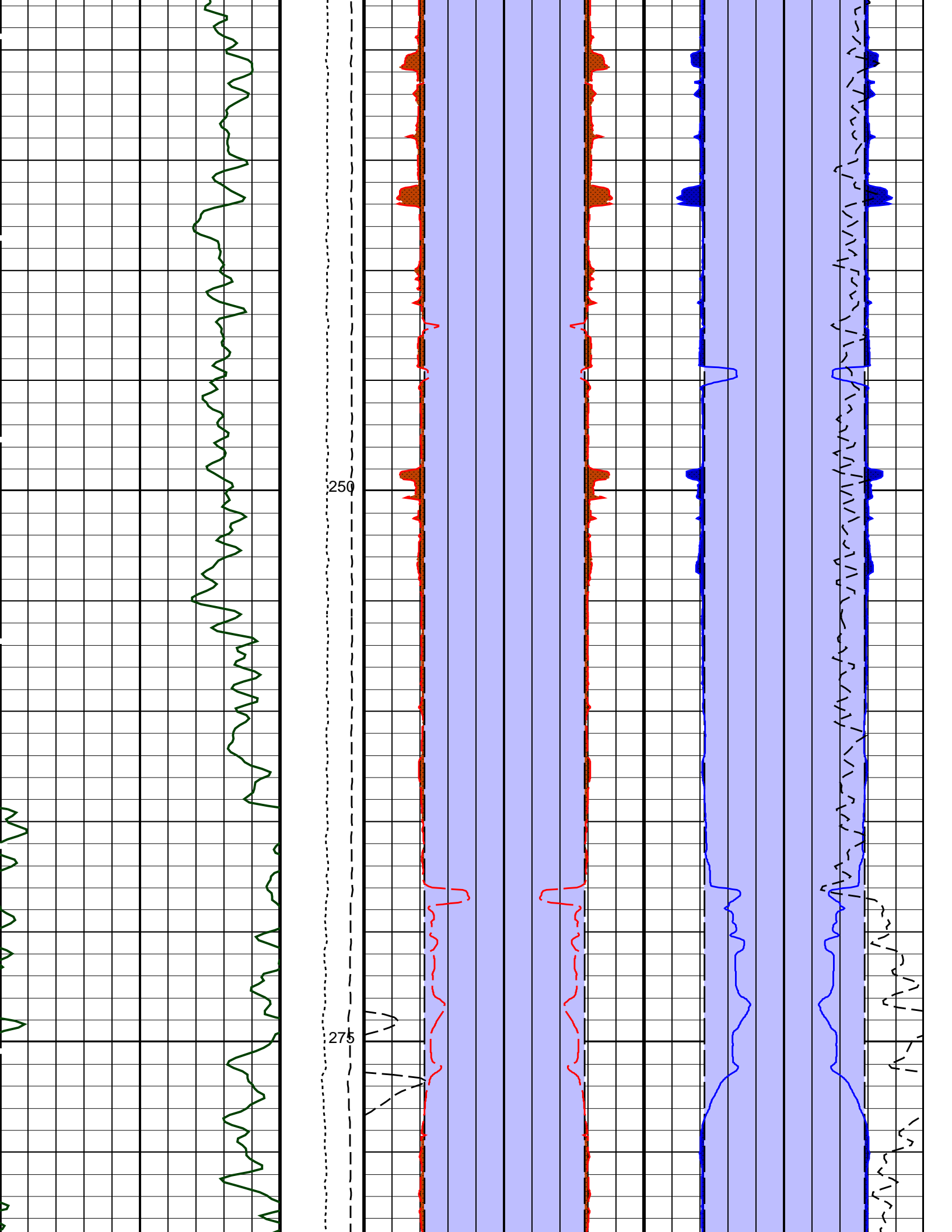
Time Mark Every 60 S

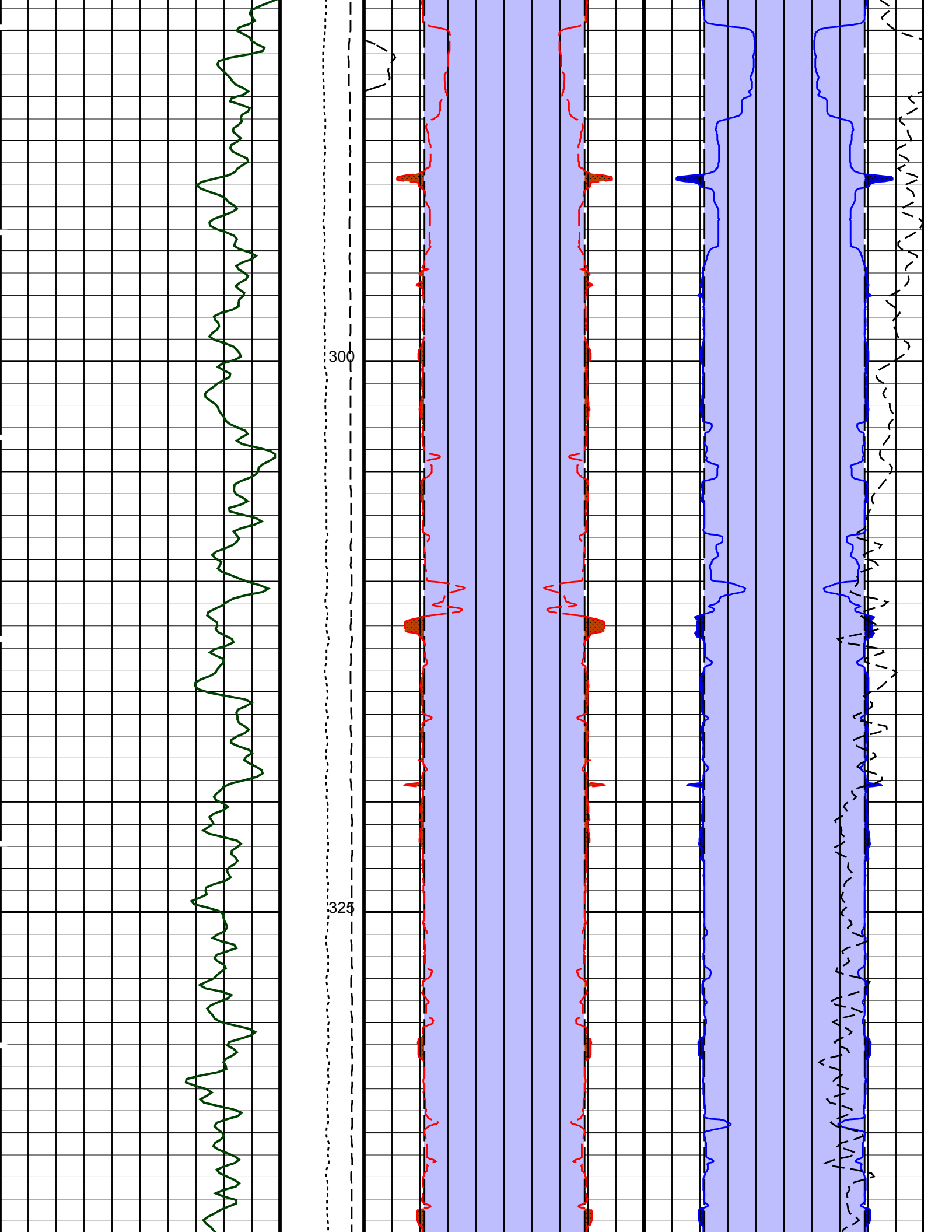
Area From BS to BS_1		Area From BS_3 to BS_2	
Area From C1 to BS	Area From BS_1 to C1_1	Area From C2 to BS_3	Area From BS_2 to C2_1

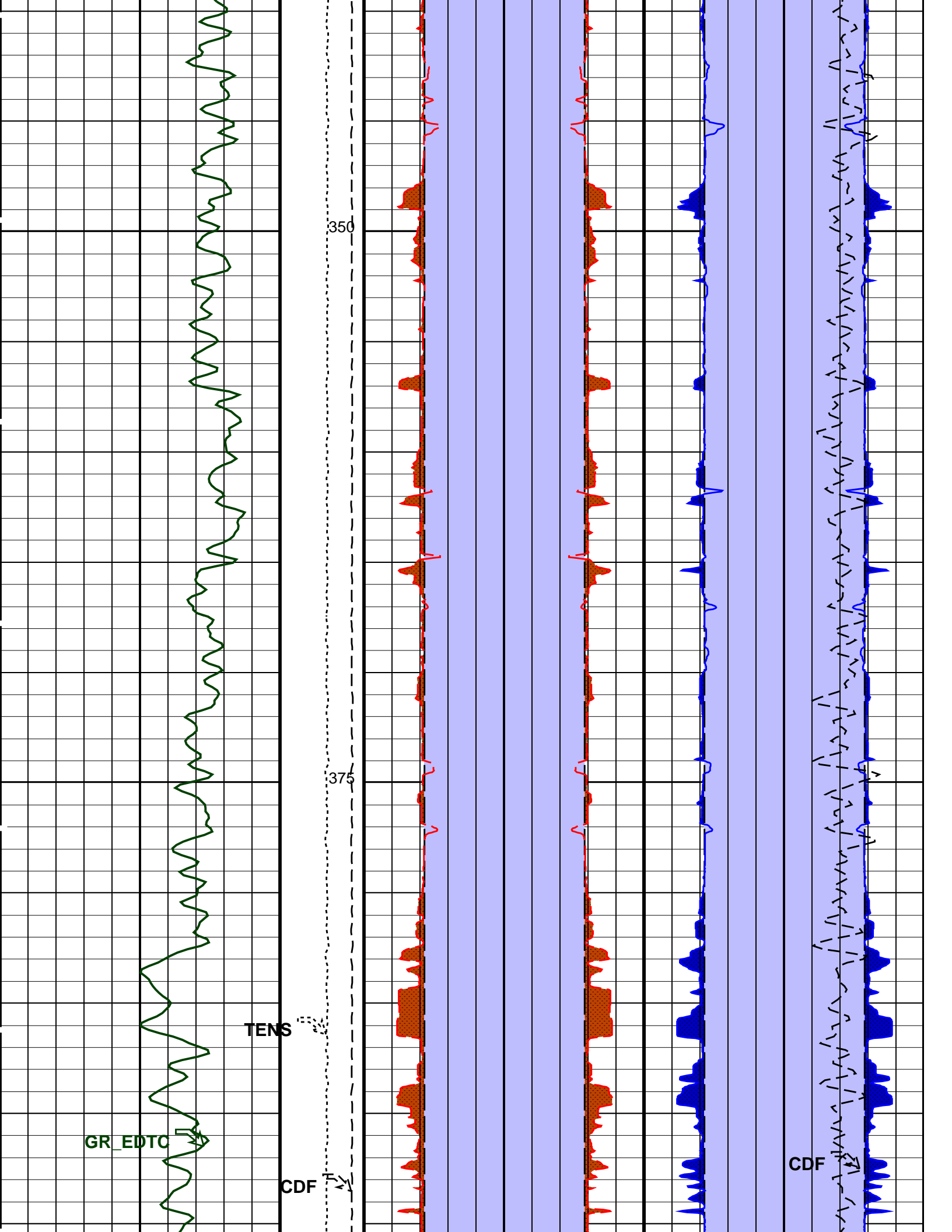
Calibrated Borehole Error (CBE)

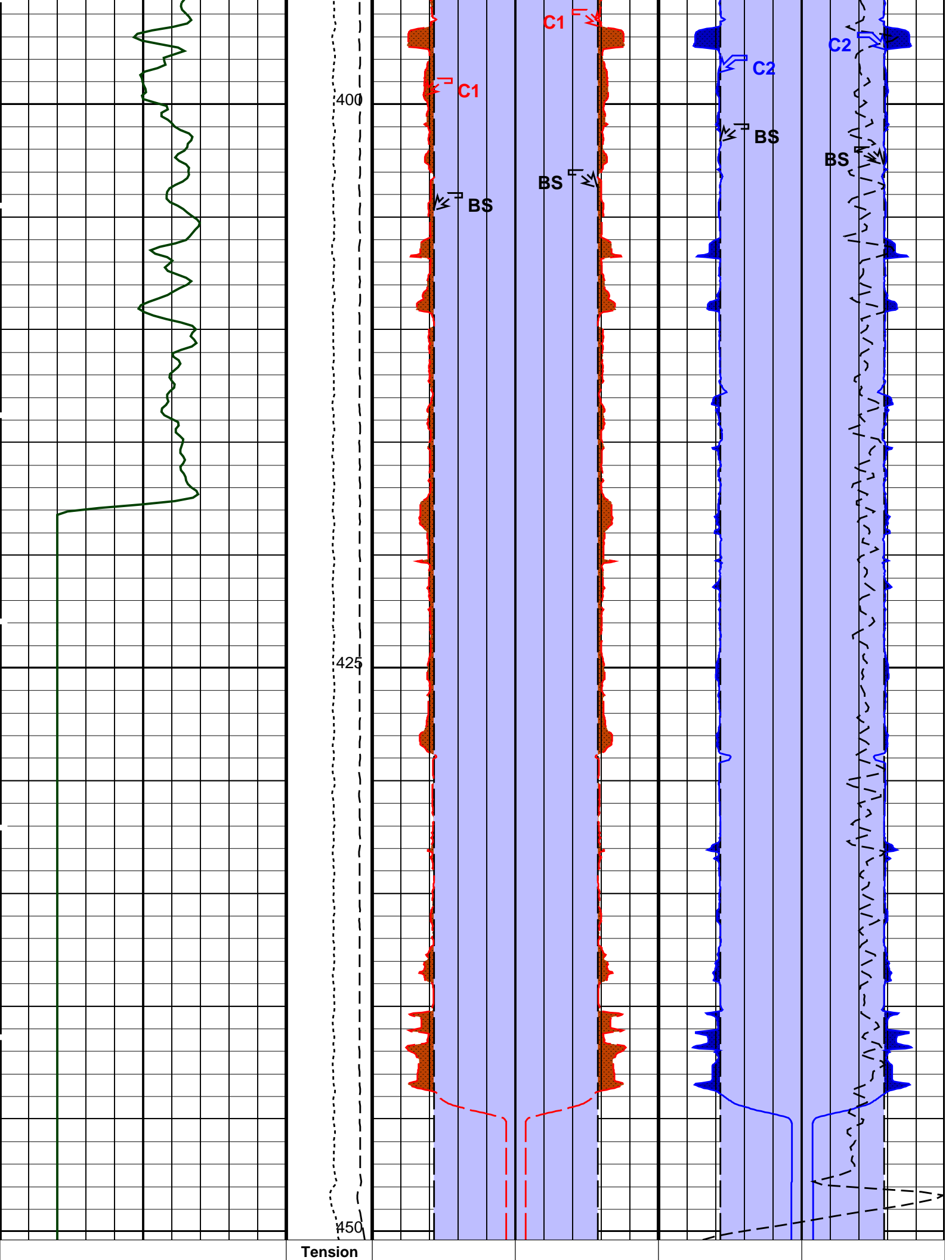


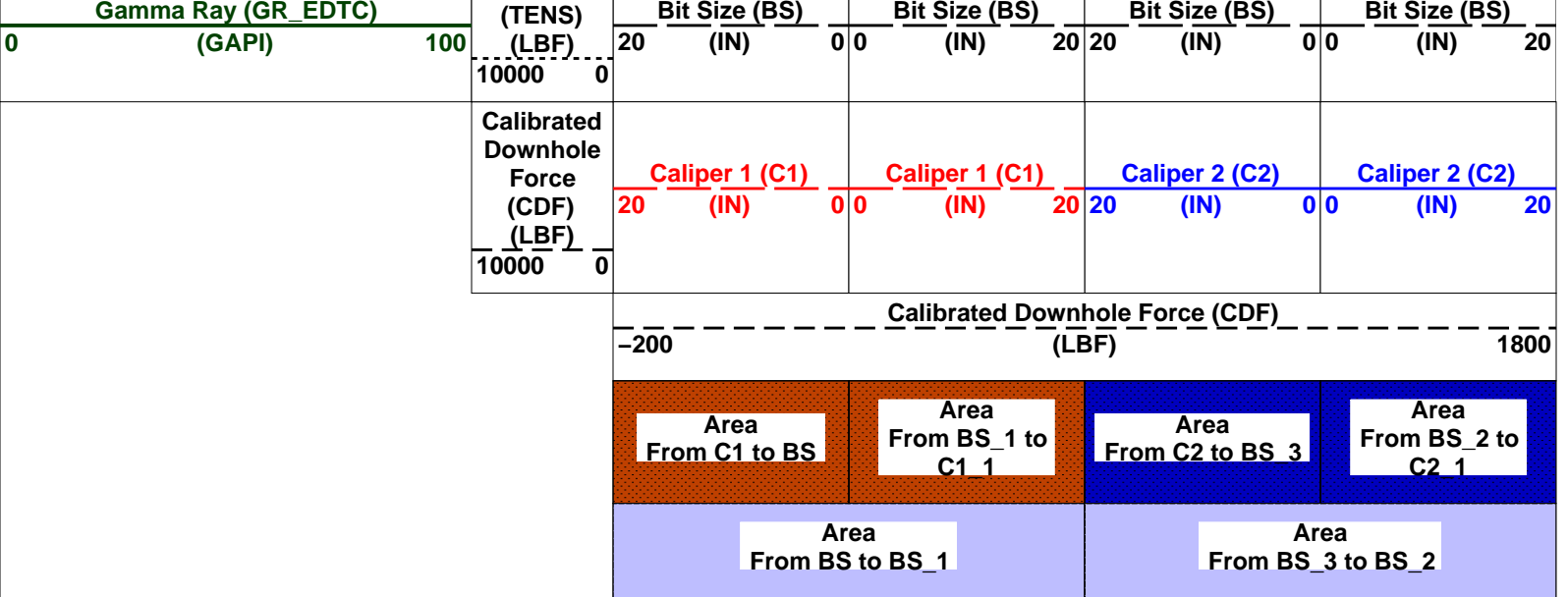












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MEST-B: Micro Electrical Scanner – B (Slim)		
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	-0.884445 DEG
MLM	MEST Logging Mode	SCAN1800
MRTE	Magneto Reference Temperature	23 DEGC
PTYP	Pad Type – High Resolution or Medium Extended Coverage	HR_SLIM_0_12_IN
RBS	Resistivity Button Selection	AUTO
TEMS	GPIT Temperature Sensor Used	BOTH
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO
XGAI	Gain	GAIN_2
XMOD	Emex Mode	MANUAL
XOFF	Offset	OFFSET_0
XVOL	Emex Voltage	0 V
DSST-B: Dipole Shear Imager – B		
AGC1	Automatic Gain Control 1	ON
AGC2	Automatic Gain Control 2	ON
AGC3	Automatic Gain Control 3	ON
AGC4	Automatic Gain Control 4	ON
AGC5	Automatic Gain Control 5	ON
AGCX	Automatic Gain Control X	ON
BARS_MTR1	Length for Monopole Transmitter to Receiver 1	2.7432 M
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	21 DEGC
CASF	Label Casing Function – Monopole P&S	50
CDTS	C-Delta-T Shale	100 US/F
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	120 US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	210 US/F
DDE1	Digitizing Delay 1	0 US
DDE2	Digitizing Delay 2	0 US
DDE3	Digitizing Delay 3	0 US
DDE4	Digitizing Delay 4	0 US
DDE5	Digitizing Delay 5	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source – Dipole Shear	USE
DLHS	Label Hole Diameter Source for SOBS Channel	AUTO
DSHL	Label Slowness Lower Limit – Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1200 US/F
DSI1	Digitizer Sample Interval 1	10 US
DSI2	Digitizer Sample Interval 2	10 US
DSI3	Digitizer Sample Interval 3	10 US
DSI4	Digitizer Sample Interval 4	10 US
DSI5	Digitizer Sample Interval 5	10 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DTE	Delta-T Fluid	105 US/F

DTF	Delta-T Fluid	195	US/F
DTM	Delta-T Matrix	56	US/F
DTSS	Shear Delta-T Source for DTSM Channel	UPPER_DIPOLE	
DWC1	Digitizer Word Count 1	512	
DWC2	Digitizer Word Count 2	512	
DWC3	Digitizer Word Count 3	512	
DWC4	Digitizer Word Count 4	512	
DWC5	Digitizer Word Count 5	512	
DWCX	Digitizer Word Count X	512	
FDE1	Firing Delay 1	0	
FDE2	Firing Delay 2	0	
FDE3	Firing Delay 3	0	
FDE4	Firing Delay 4	0	
FDE5	Firing Delay 5	0	
FDEX	Firing Delay X	0	
FGM5	First Motion Gate Moveout 5	40	US/F
FGMX	First Motion Gate Moveout X	40	US/F
FILG	Label Fill Gap Control - Monopole P&S	COMP_SHEAR	
FMG5	First Motion Minimum Gate 5	500	US
FMGX	First Motion Minimum Gate X	500	US
FMLL	Slowness Lower Limit - FMD	40	US/F
FMRC	Restart Control - FMD	CONTINUE	
FMT5	First Motion Threshold 5	UP	
FMTX	First Motion Threshold X	NONE	
FMUL	Slowness Upper Limit - FMD	180	US/F
FNC5	First Motion Noise Counter Input 5	ALO	
FNCX	First Motion Noise Counter Input X	ALO	
FPM	Processing Mode - FMD	NONE	
FTD5	First Motion Threshold Direction 5	UP	
FTDX	First Motion Threshold Direction X	UP	
GAI1	Manual Gain 1	10	
GAI2	Manual Gain 2	10	
GAI3	Manual Gain 3	10	
GAI4	Manual Gain 4	16	
GAI5	Manual Gain 5	16	
GAIX	Manual Gain X	10	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GDT1	Gain Delta-T 1	800	US/F
GDT2	Gain Delta-T 2	800	US/F
GDT3	Gain Delta-T 3	800	US/F
GDT4	Gain Delta-T 4	160	US/F
GDT5	Gain Delta-T 5	160	US/F
GDTX	Gain Delta-T X	800	US/F
GGRD	Geothermal Gradient	0.018227	DC/M
GIN1	Gain Interval 1	15360	US
GIN2	Gain Interval 2	15360	US
GIN3	Gain Interval 3	15360	US
GIN4	Gain Interval 4	2560	US
GIN5	Gain Interval 5	1600	US
GINX	Gain Interval X	15360	US
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HPF1	High Pass Filter 1	F80	
HPF2	High Pass Filter 2	F80	
HPF3	High Pass Filter 3	F80	
HPF4	High Pass Filter 4	F8K	
HPF5	High Pass Filter 5	F8K	
HPFX	High Pass Filter X	F80	
ISSBAR	Barite Mud Switch	BARITE	
ITTS	Integrated Transit Time Source	DTCO	
LFC	Label Formation Character - Monopole P&S	DYNAMIC	
LPF1	Low Pass Filter 1	F5K	
LPF2	Low Pass Filter 2	F5K	
LPF3	Low Pass Filter 3	F5K	
LPF4	Low Pass Filter 4	F30K	
LPF5	Low Pass Filter 5	F30K	
LPFX	Low Pass Filter X	F5K	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MAI5	Slowness Averaging Interval - FMD	42	IN
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCS	Mean Casing Slowness	57	US/F
MDS5	Multishot Delta-T Scatter - FMD	20	US
MTXG	Monopole Transmitter Geometry	186	IN
MUX1	Sum Difference Multiplexor Input 1	RR	
MUX2	Sum Difference Multiplexor Input 2	RR	
MUX3	Sum Difference Multiplexor Input 3	RR	
MUX4	Sum Difference Multiplexor Input 4	RR	
MUX5	Sum Difference Multiplexor Input 5	RR	
MUXX	Sum Difference Multiplexor Input X	RR	
NTI5	Number Threshold Items 5	0	
NTIX	Number Threshold Items X	0	
NWI1	Number Waveform Items 1	0	
NWI2	Number Waveform Items 2	0	
NWI3	Number Waveform Items 3	0	

NWI4	Number Waveform Items 4	8	
NWI5	Number Waveform Items 5	0	
NWIX	Number Waveform Items X	32	
NWS1	Number Waveforms Stacked 1	1	
NWS2	Number Waveforms Stacked 2	1	
NWS3	Number Waveforms Stacked 3	1	
NWS4	Number Waveforms Stacked 4	1	
NWS5	Number Waveforms Stacked 5	1	
NWSX	Number Waveforms Stacked X	1	
RATE	Firing Rate	R7	
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	OFF	
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	OFF	
SAM3	DSST Sonic Acquisition Mode 3 – Monopole Mode for Stoneley	OFF	
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN	
SAM5	DSST Sonic Acquisition Mode 5 – Monopole Mode for FMD	OFF	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	BCR	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SAS3	STC Sonic Array Status – Monopole Stoneley	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SAS5	Sonic Array Status – FMD	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBO3	STC Search Band Offset – Monopole Stoneley	2000	US
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SBW3	STC Search Bandwidth – Monopole Stoneley	6000	US
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFC3	STC Formation Character – Monopole Stoneley	SELECTABLE	
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B1-3K	
SFM2	STC Filter – Upper Dipole	B1-2K	
SFM3	STC Filter – Monopole Stoneley	B.5-1.5K	
SFM4	STC Filter – Monopole P&S	B3-20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235	US/F
SHT	Surface Hole Temperature	20	DEGC
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL1	STC Slowness Lower Limit – Lower Dipole	75	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	75	US/F
SLL3	STC Slowness Lower Limit – Monopole Stoneley	75	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
SST1	STC Slowness Step – Lower Dipole	4	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SST3	STC Slowness Step – Monopole Stoneley	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SSW3	STC Source Waveform – Monopole Stoneley	WF_SAM3	
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	75	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	1200	US/F
SUL1	STC Slowness Upper Limit – Lower Dipole	1200	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	1200	US/F
SUL3	STC Slowness Upper Limit – Monopole Stoneley	1200	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
SWD3	STC Slowness Width – Monopole Stoneley	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBDB	Tool String Bottom to DSST Bottom	440.25	IN
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TBF3	STC Time for Baseline Fill – Monopole Stoneley	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TLL3	STC Time Lower Limit – Monopole Stoneley	600	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US

TST1	STC Time Step - Lower Dipole	200	US
TST2	STC Time Step - Upper Dipole	200	US
TST3	STC Time Step - Monopole Stoneley	200	US
TST4	STC Time Step - Monopole P&S	50	US
TTDB	Tool String Top to DSST Bottom	972.26	IN
TUL1	STC Time Upper Limit - Lower Dipole	20200	US
TUL2	STC Time Upper Limit - Upper Dipole	20200	US
TUL3	STC Time Upper Limit - Monopole Stoneley	18200	US
TUL4	STC Time Upper Limit - Monopole P&S	3660	US
TWA1	Transmitter Waveform Amplitude 1	179	
TWA2	Transmitter Waveform Amplitude 2	179	
TWA3	Transmitter Waveform Amplitude 3	179	
TWA4	Transmitter Waveform Amplitude 4	150	
TWA5	Transmitter Waveform Amplitude 5	150	
TWAX	Transmitter Waveform Amplitude X	179	
TWD1	STC Time Width - Lower Dipole	2000	US
TWD2	STC Time Width - Upper Dipole	2000	US
TWD3	STC Time Width - Monopole Stoneley	2000	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI1	STC Integration Time Window - Lower Dipole	1600	US
TWI2	STC Integration Time Window - Upper Dipole	1600	US
TWI3	STC Integration Time Window - Monopole Stoneley	1600	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWR1	Transmitter Waveform Sample Rate 1	5	US
TWR2	Transmitter Waveform Sample Rate 2	5	US
TWR3	Transmitter Waveform Sample Rate 3	5	US
TWR4	Transmitter Waveform Sample Rate 4	5	US
TWR5	Transmitter Waveform Sample Rate 5	5	US
TWRX	Transmitter Waveform Sample Rate X	5	US
TWS1	Transmitter Waveform Select 1	0	
TWS2	Transmitter Waveform Select 2	0	
TWS3	Transmitter Waveform Select 3	0	
TWS4	Transmitter Waveform Select 4	6	
TWS5	Transmitter Waveform Select 5	6	
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFDTSP1	SAM1 Waveform Delta for Spectrum	0	US/F
WFDTSP2	SAM2 Waveform Delta for Spectrum	0	US/F
WFDTSP3	SAM3 Waveform Delta for Spectrum	0	US/F
WFDTSP4	SAM4 Waveform Delta for Spectrum	0	US/F
WFDTSPX	SAMX Waveform Delta for Spectrum	0	US/F
WFLSP1	SAM1 Waveform Lower Limit for Spectrum	0	US
WFLSP2	SAM2 Waveform Lower Limit for Spectrum	0	US
WFLSP3	SAM3 Waveform Lower Limit for Spectrum	0	US
WFLSP4	SAM4 Waveform Lower Limit for Spectrum	0	US
WFLSPX	SAMX Waveform Lower Limit for Spectrum	0	US
WFM1	Waveform Mode 1	W1	
WFM2	Waveform Mode 2	W1	
WFM3	Waveform Mode 3	W1	
WFM4	Waveform Mode 4	W1	
WFM5	Waveform Mode 5	W1	
WFMX	Waveform Mode X	W1	
WFULSP1	SAM1 Waveform Upper Limit for Spectrum	20000	US
WFULSP2	SAM2 Waveform Upper Limit for Spectrum	20000	US
WFULSP3	SAM3 Waveform Upper Limit for Spectrum	20000	US
WFULSP4	SAM4 Waveform Upper Limit for Spectrum	5000	US
WFULSPX	SAMX Waveform Upper Limit for Spectrum	20000	US
XMT1	Transmitter Select 1	NONE	
XMT2	Transmitter Select 2	NONE	
XMT3	Transmitter Select 3	NONE	
XMT4	Transmitter Select 4	MONO	
XMT5	Transmitter Select 5	MONO	
XMTX	Transmitter Select X	DUP	
HNCS--BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNCS Detector 1 Barite Constant	1	
BAR2	HNCS Detector 2 Barite Constant	1	
BHK	HNCS 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	HNCS 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	HNCS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNCS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNCS Borehole Potassium Running Average	-0.000548907	
HALF	HNCS Alpha Filter Length	60	IN
HCRB	HNCS Apply Borehole Potassium Correction	NONE	
HCRB	HNCS Apply Borehole Potassium Correction	NONE	

HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
ISSBAR	Barite Mud Switch	BARITE	
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	20	DEGC
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.97264	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.967787	
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	BARITE	
ISSBAR_EDTC	Nuclear Mud Type	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	YES	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Centered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
DIP: Dip Computation			
	DIP Tool	SHDT	
CSBL	CSB DIP Number of Levels	2L	
DPAD	Disabled Pad	NONE	
ELRA	Electrical Radius	0.5	IN
INT	Correlation Interval	1.2192	M
SANG	Correlation Search Angle	35	DEG
SBUT	DIP Set of Buttons	MSD	
SDFA	Side-by-Side Distance Factor	0.9	IN
SPAN	DIP Spanning	1/4	
STDA	Structural DIP Azimuth	0	DEG
STDI	Structural DIP Angle	0	DEG
STEP	Correlation Step	0.6096	M
DIR: Directional Survey Computation			
SPED	East Departure of Starting Point	0	M
SPND	North Departure of Starting Point	0	M
SPVD	TVD of Starting Point	0	M
TAZI	Vertical Section Azimuth	0	DEG
TIED	East Departure of Tie-in Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIND	North Departure of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.20	G/C3
DO	Depth Offset for Playback	-2510.0	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	-2511	M
TDD	Total Depth - Driller	3190.00	M
TDL	Total Depth - Logger	3189.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

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:38 PRODUCER 06-Jan-2015 17:07 2960.4 M 2636.7 M

Output DLIS Files

DEFAULT FMS_DSI_NGS_030PUP FN:50 PRODUCER 07-Jan-2015 02:13

Company: Integrated Ocean Discovery Program Well: Expedition 353, Site U1445A BB-5

Input DLIS Files

DEFAULT FMS_DSI_NGS_024LUP FN:42 PRODUCER 06-Jan-2015 18:12 2960.4 M 2497.1 M

Output DLIS Files

DEFAULT FMS_DSI_NGS_032PUP FN:52 PRODUCER 07-Jan-2015 02:23 451.1 M -11.7 M

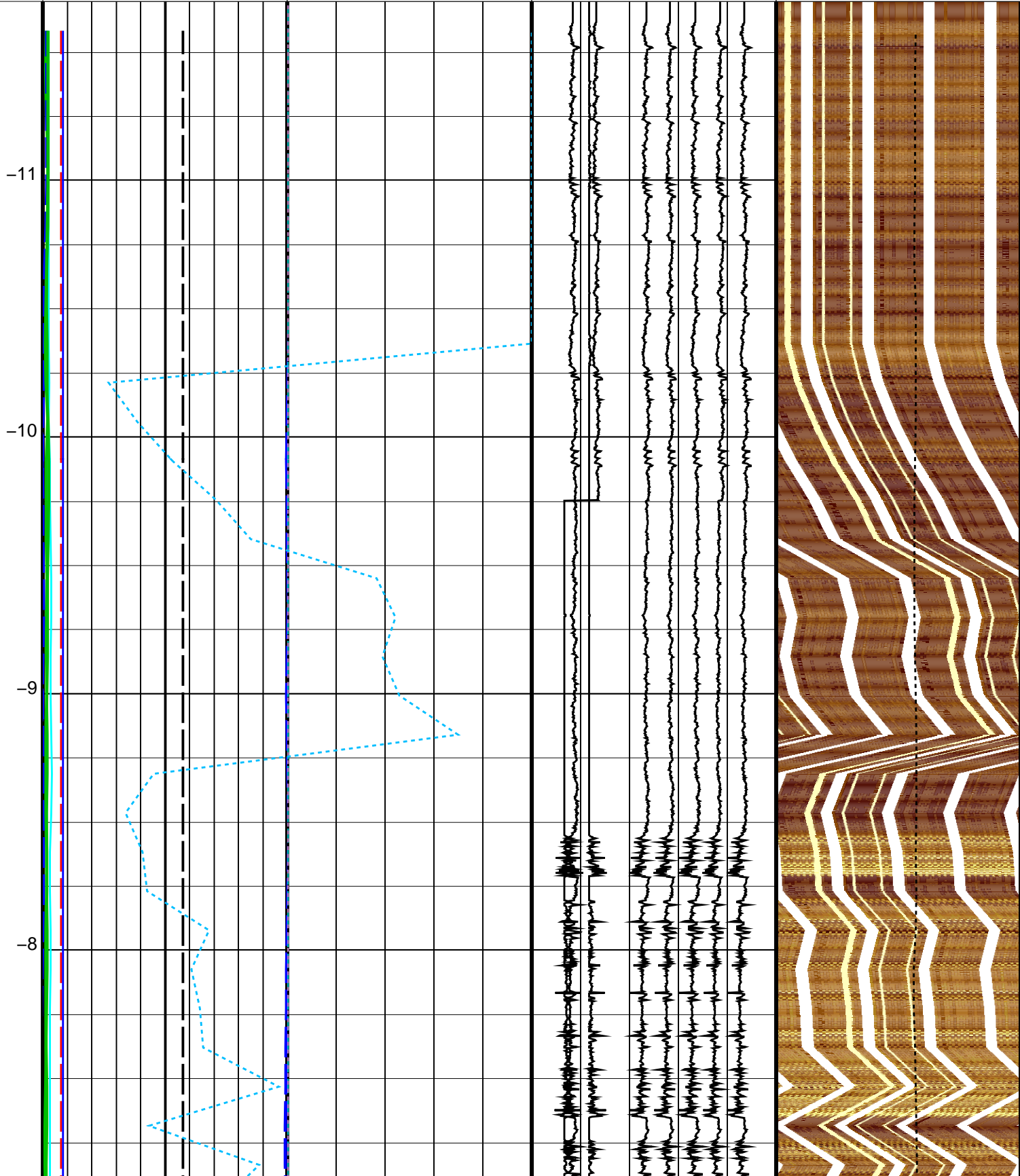
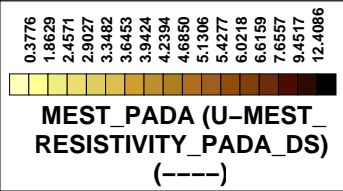
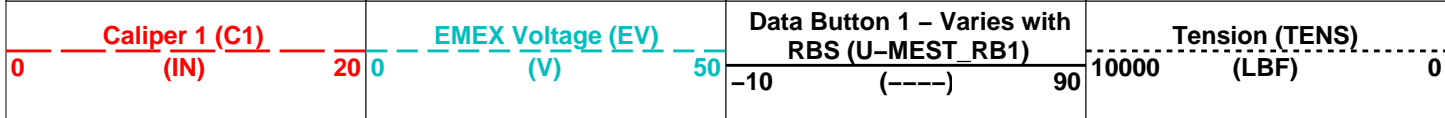
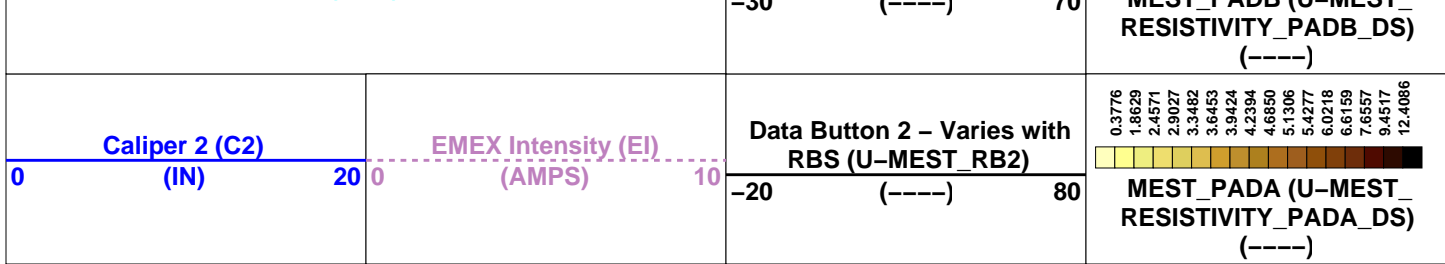
OP System Version: 19C0-187

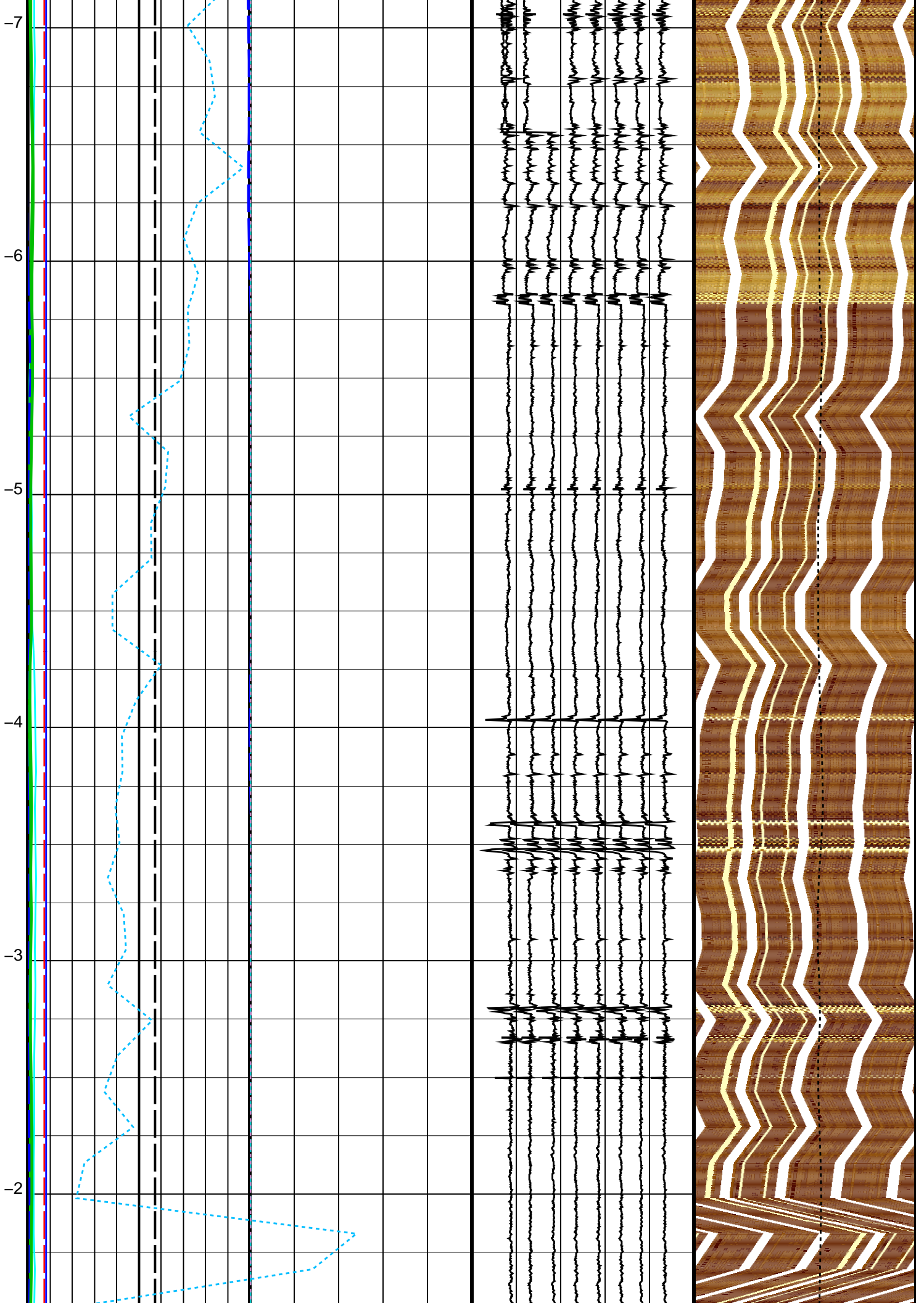
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

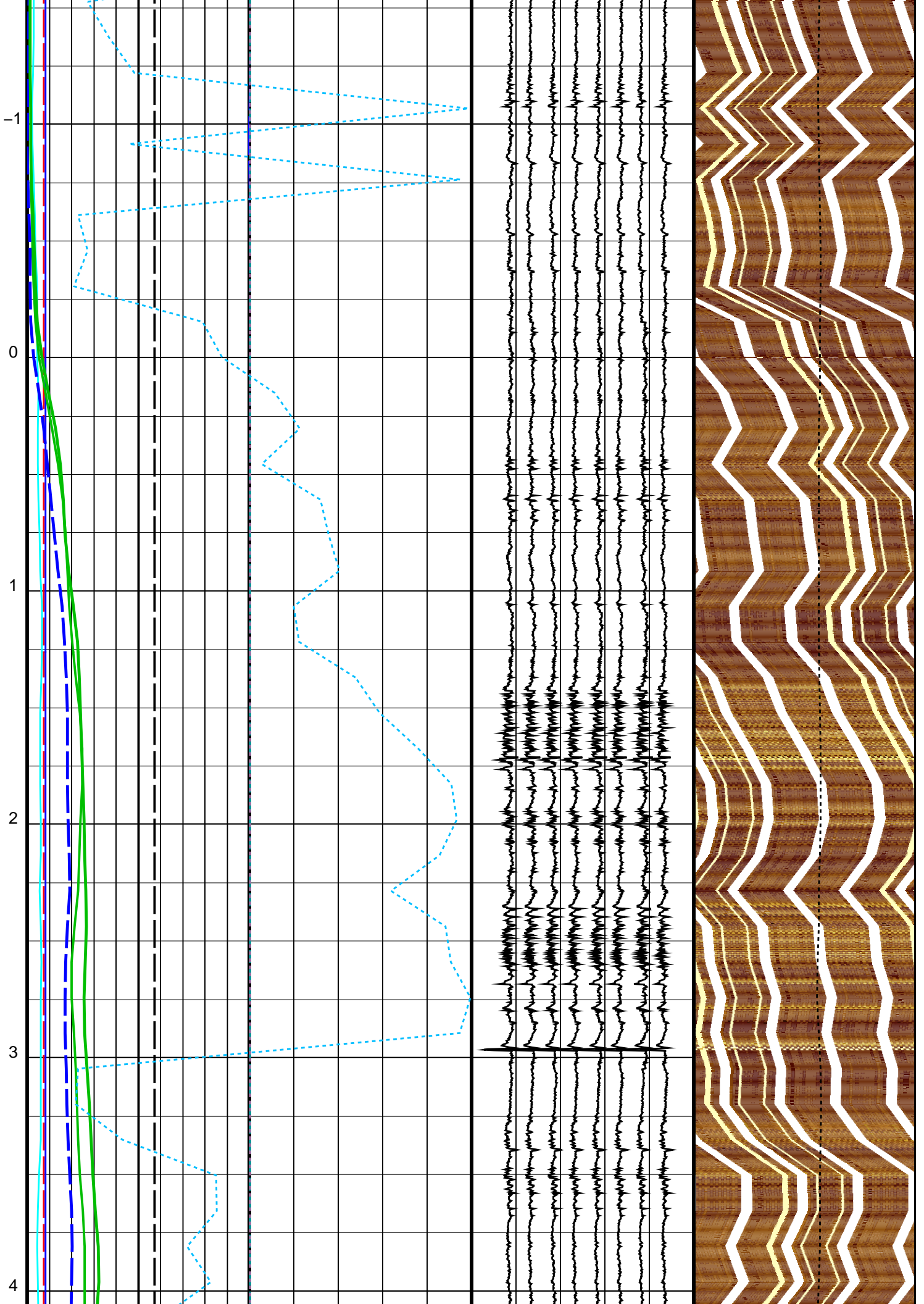
PIP SUMMARY

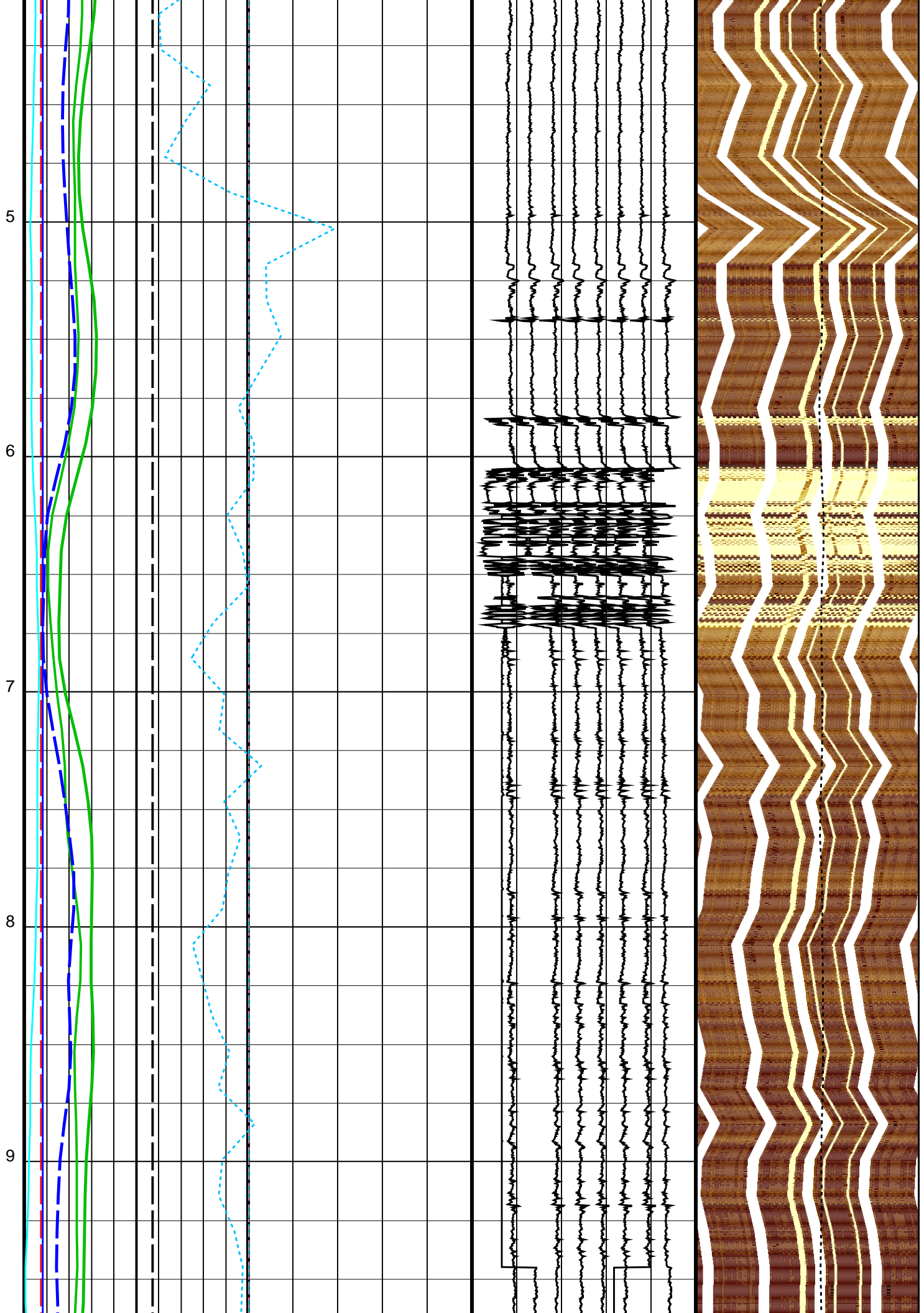
Time Mark Every 60 S

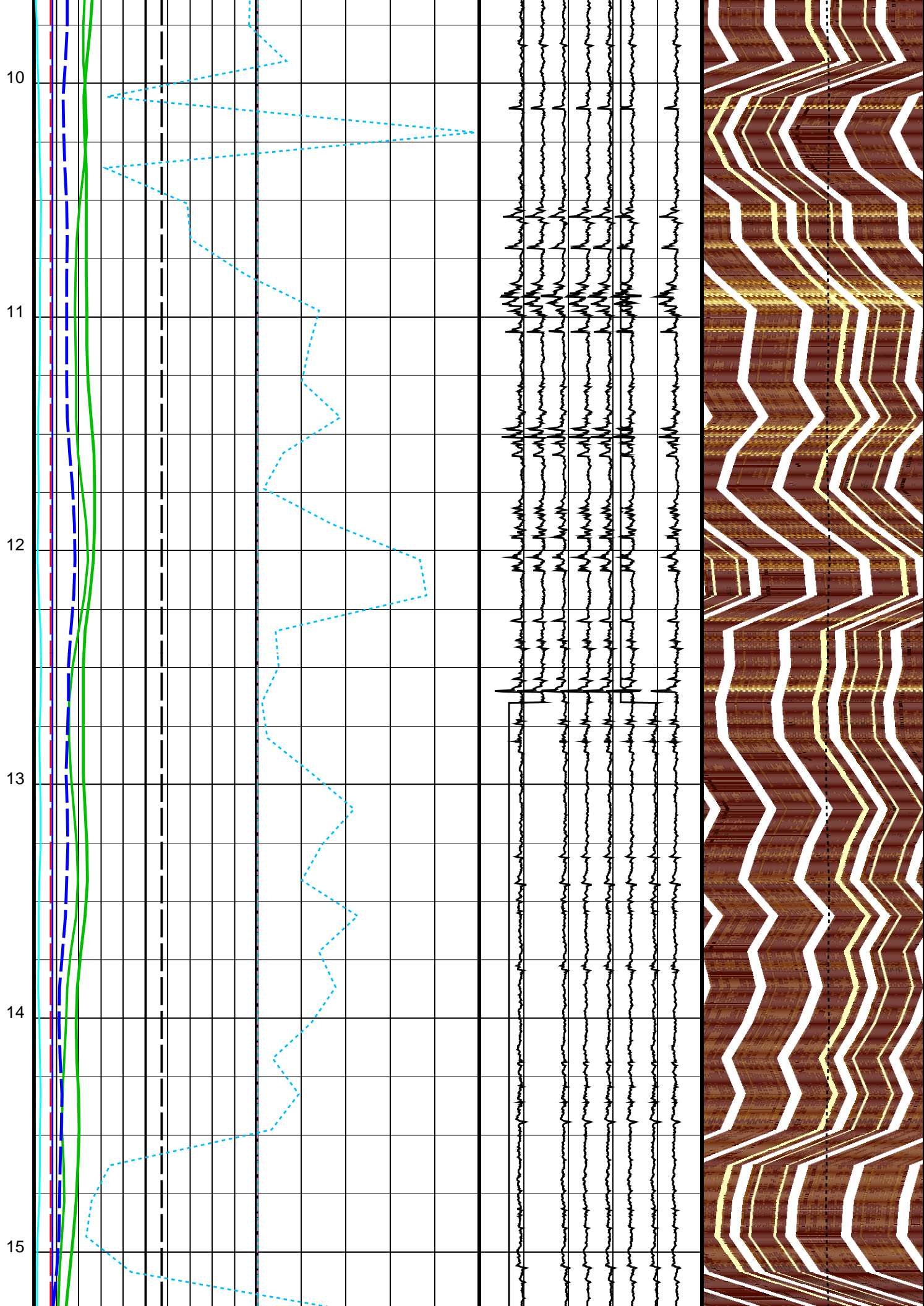
HNGS Spectroscopy Gamma Ray (HSGR)			
0 (GAPI) 100			
HNGS Computed Gamma Ray (HCGR)			
0 (GAPI) 100			
Gamma Ray (GR_EDTC)		Data Button 8 - Varies with RBS (U-MEST_RB8)	
0 (GAPI) 100		-80 (----) 20	
Bit Size (BS)		Data Button 7 - Varies with RBS (U-MEST_RB7)	
0 (IN) 20		-70 (----) 30	
Relative Bearing (RB_MEST)		Data Button 6 - Varies with RBS (U-MEST_RB6)	
-40 (DEG) 360		-60 (----) 40	
Pad One Azimuth (P1AZ_MEST)		Data Button 5 - Varies with RBS (U-MEST_RB5)	0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086
-40 (DEG) 360		-50 (----) 50	
Hole Azimuth (HAZIM)		Data Button 4 - Varies with RBS (U-MEST_RB4)	0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086
-40 (DEG) 360		-40 (----) 60	
Deviation (DEVIM)		Data Button 3 - Varies with RBS (U-MEST_RB3)	0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086
0 (DEG) 10		30 (----) 70	
		MEST_PADD (U-MEST_RESISTIVITY_PADD_DS)	(----)
		MEST_PADC (U-MEST_RESISTIVITY_PADC_DS)	(----)
		MEST_PADR (U-MEST)	(----)

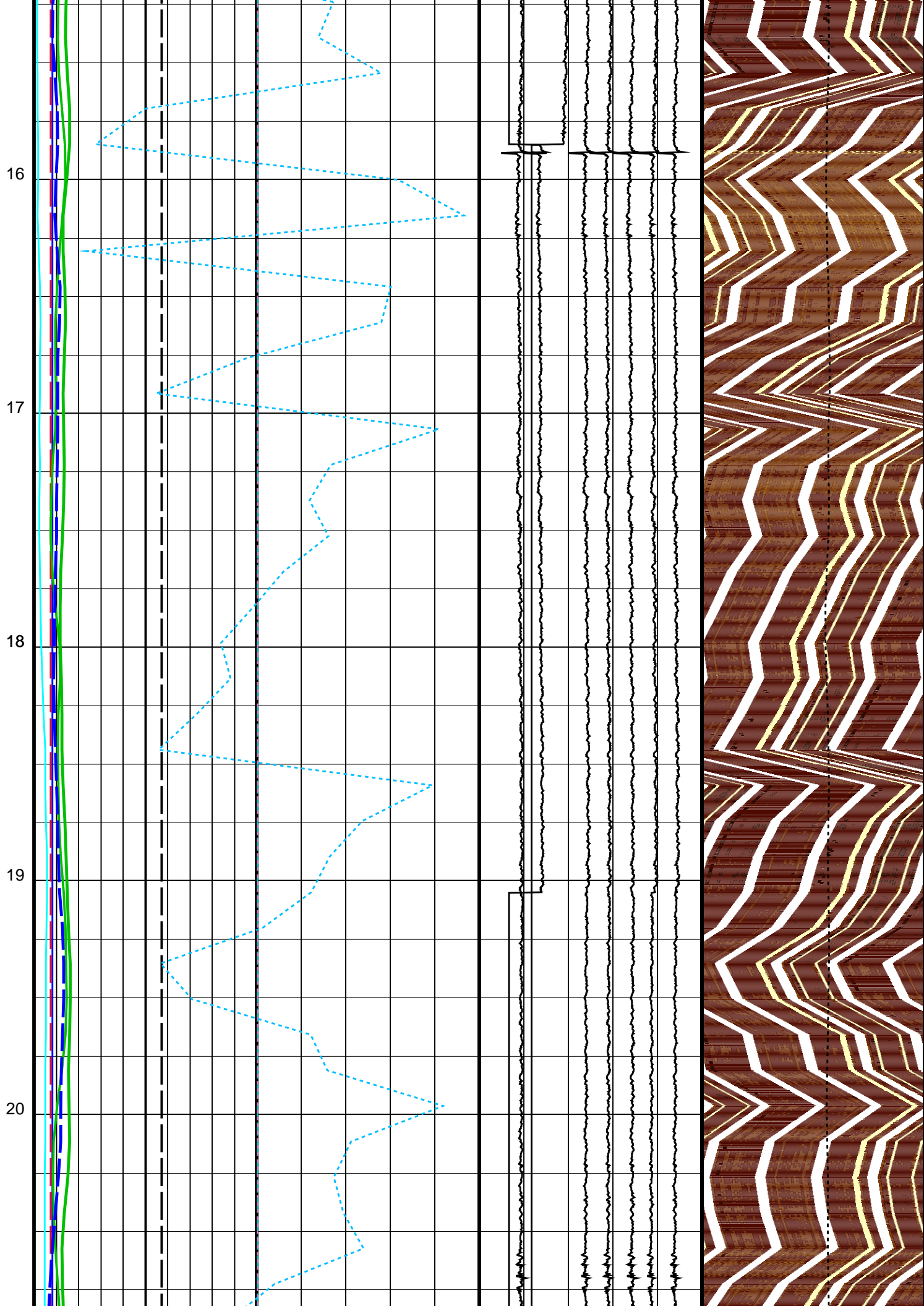




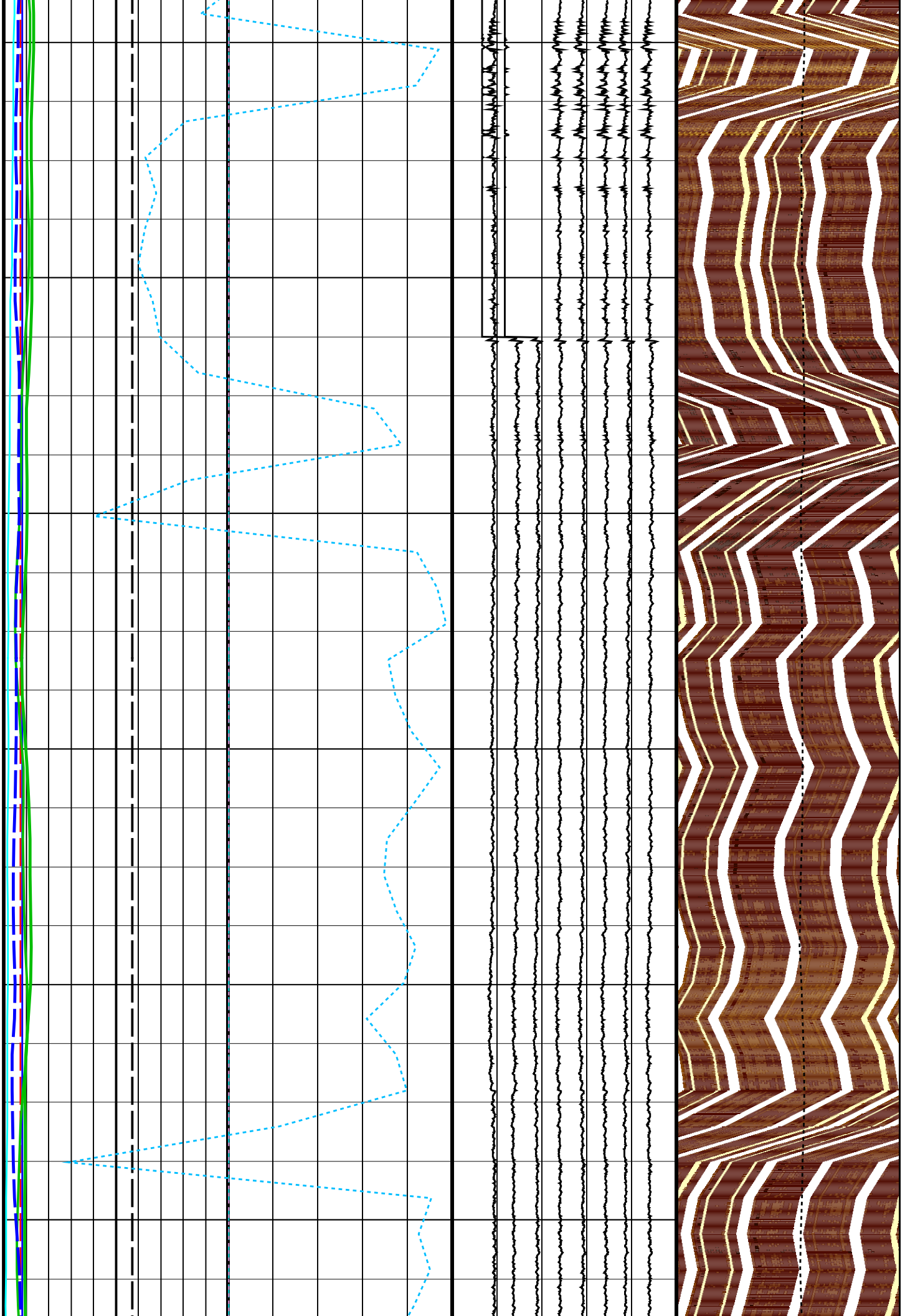








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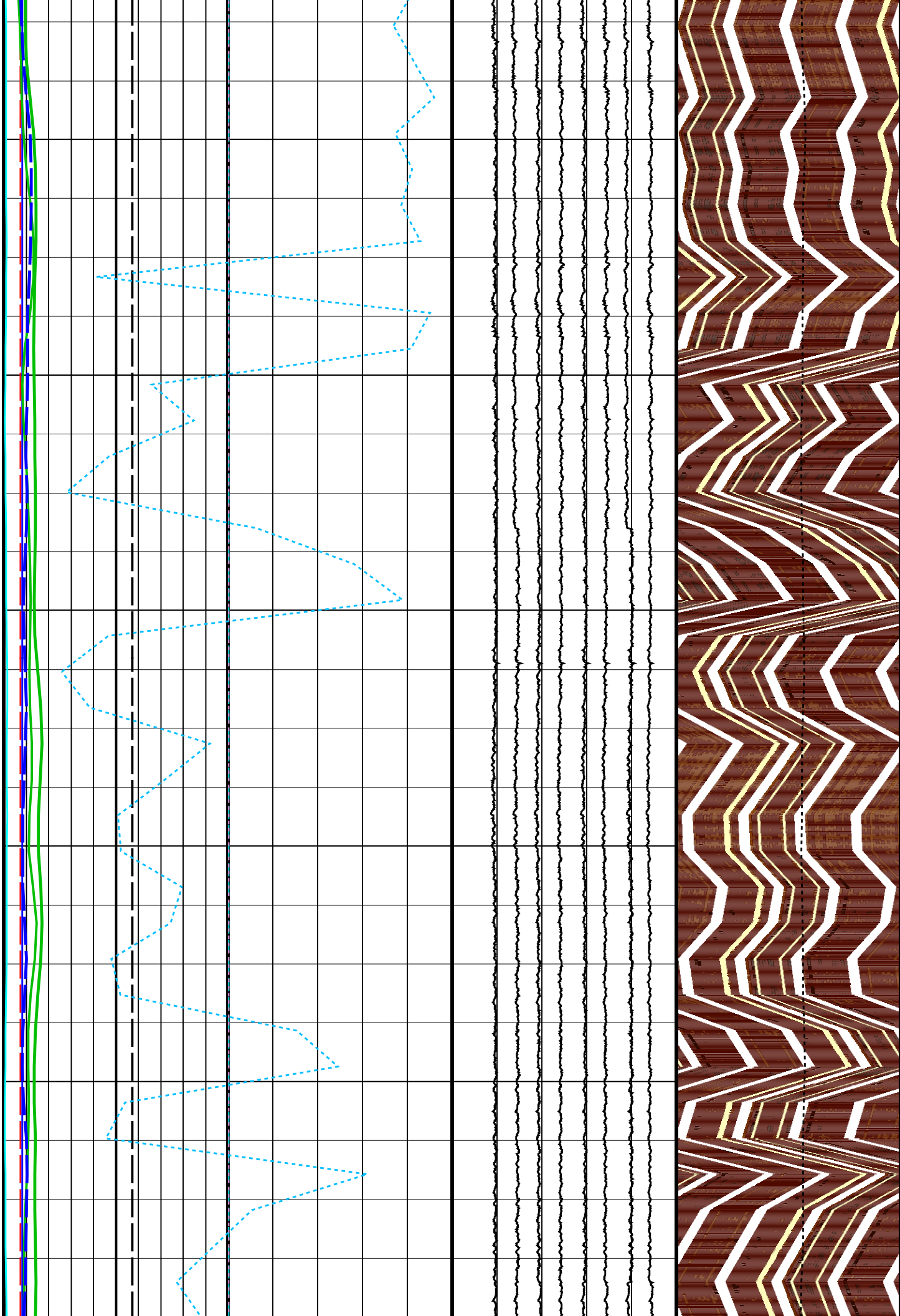
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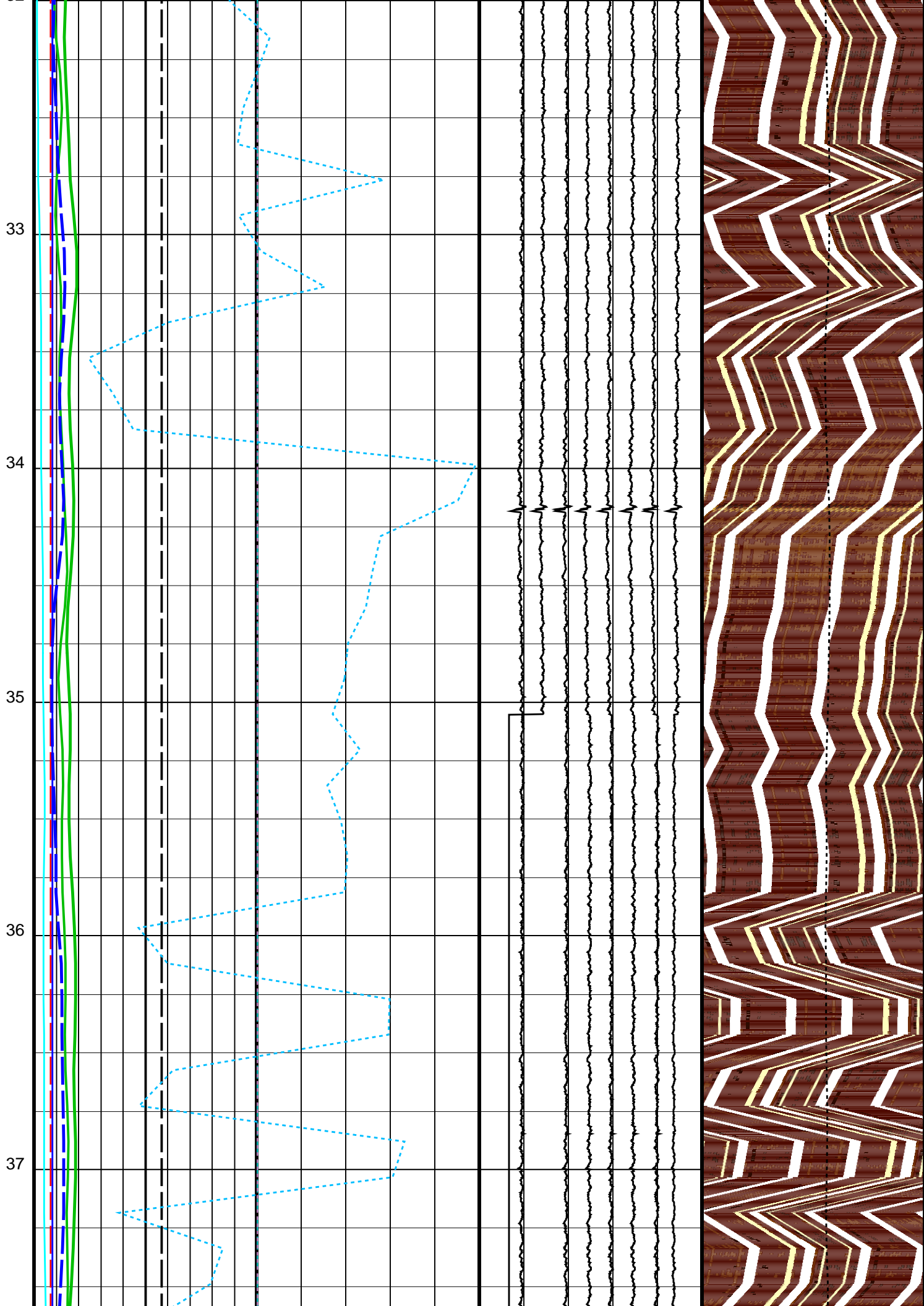
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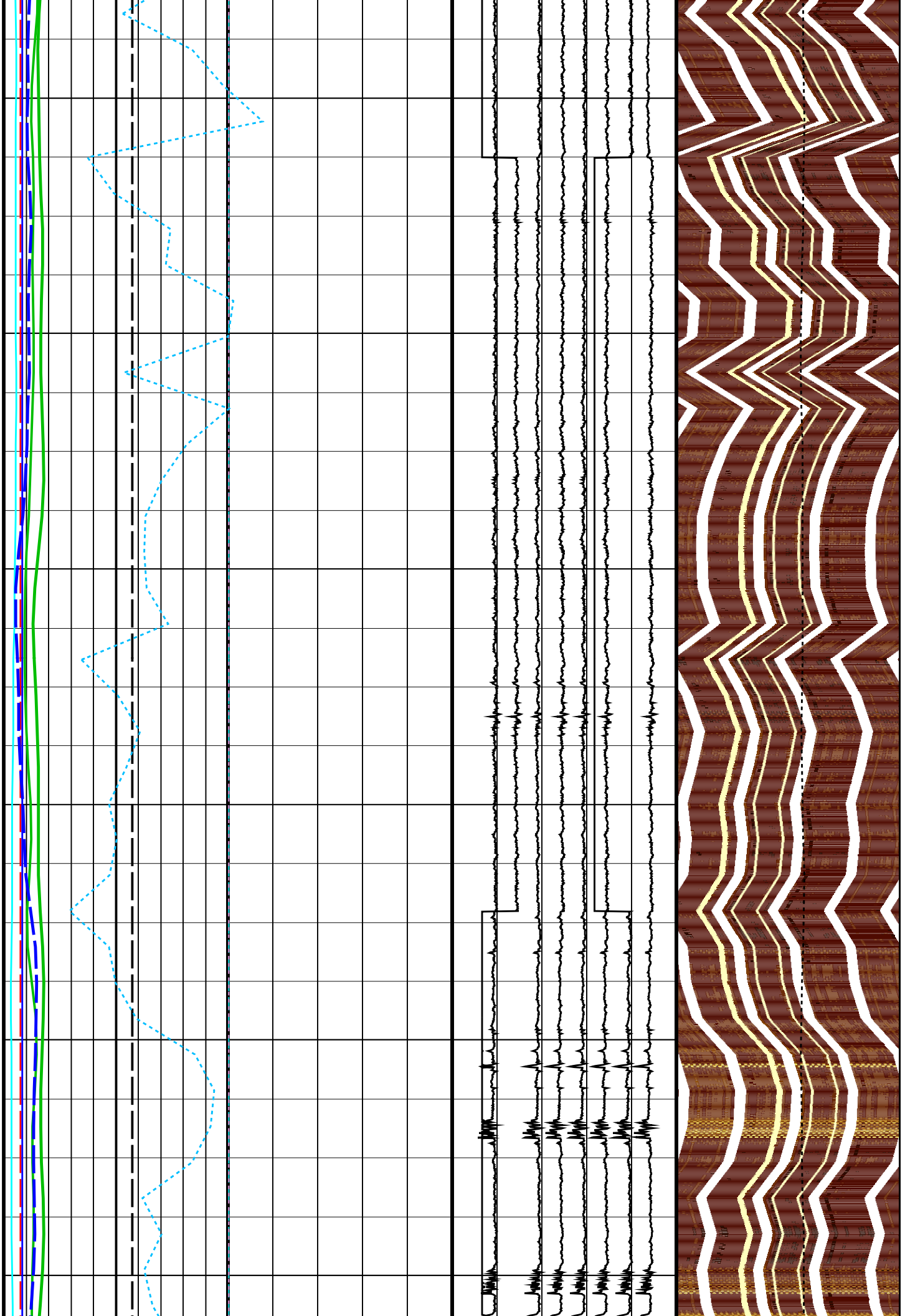
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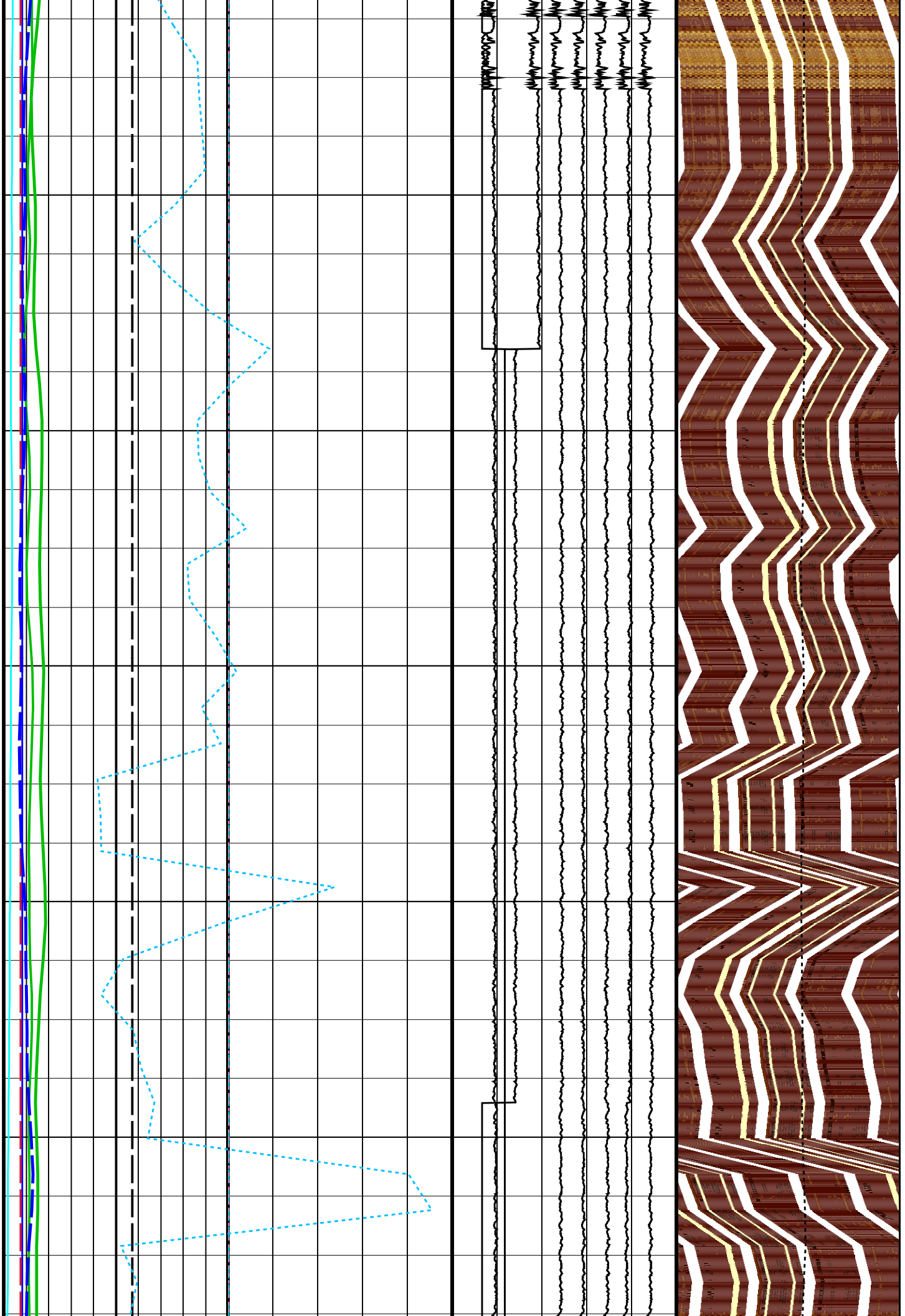
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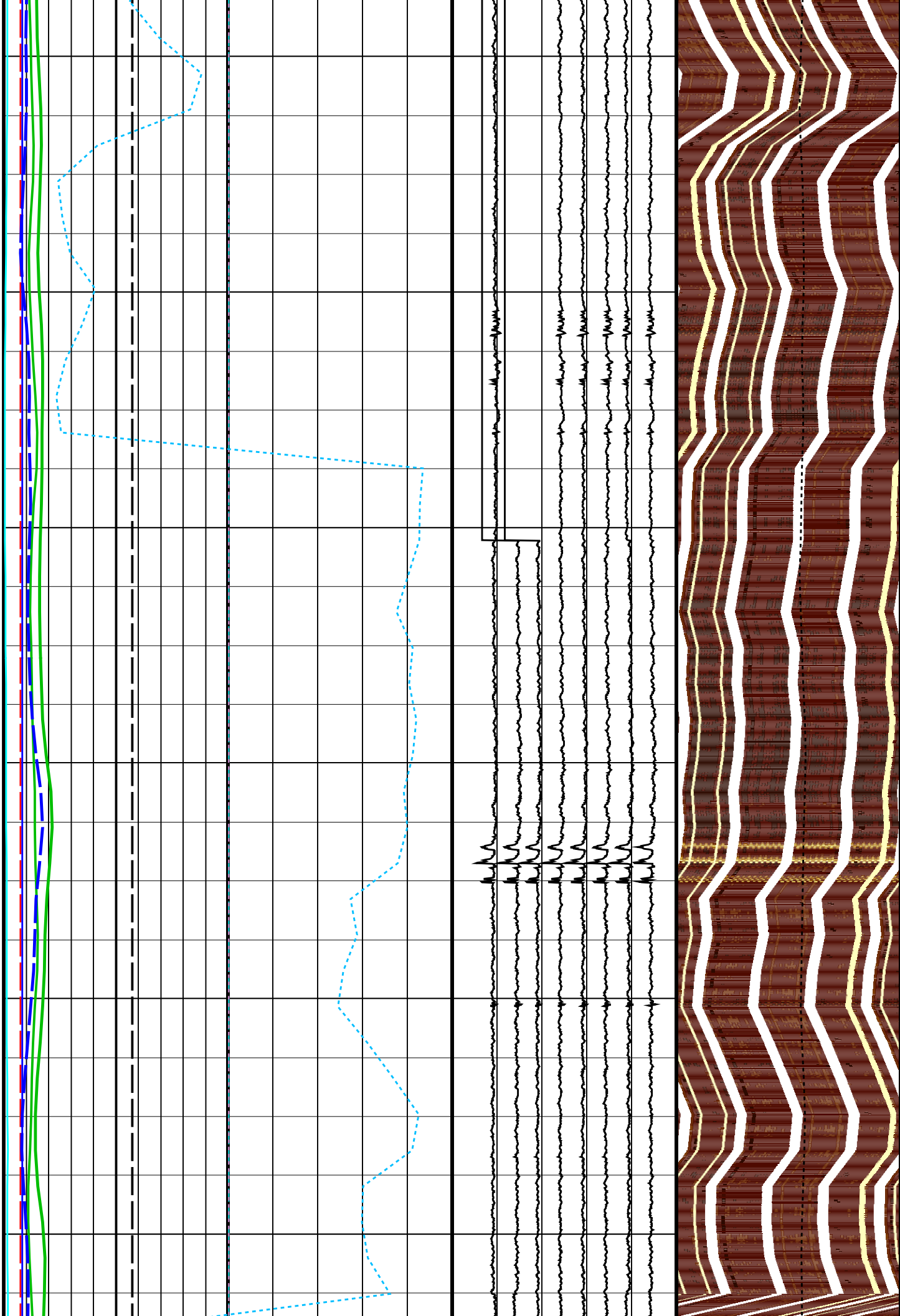
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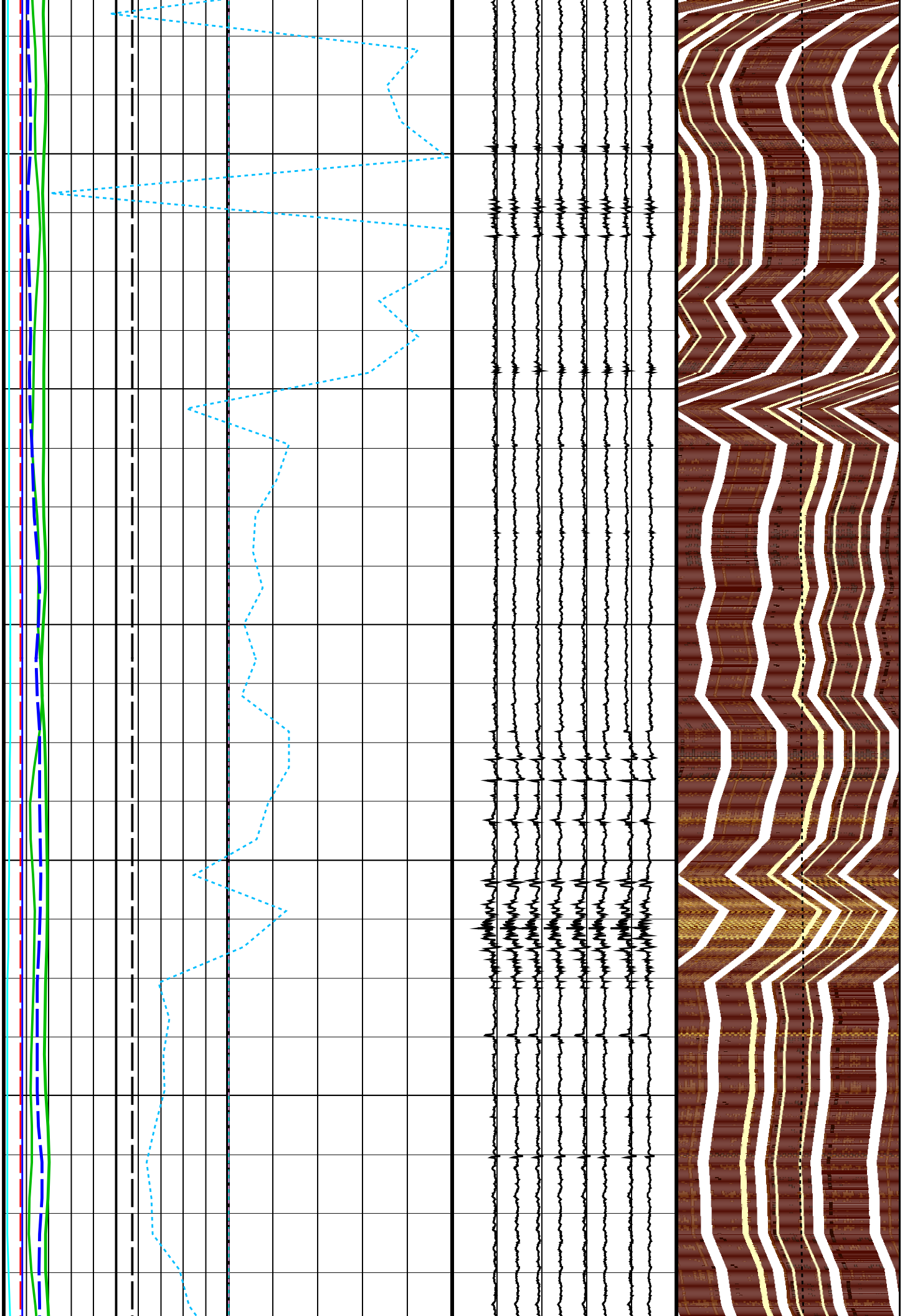
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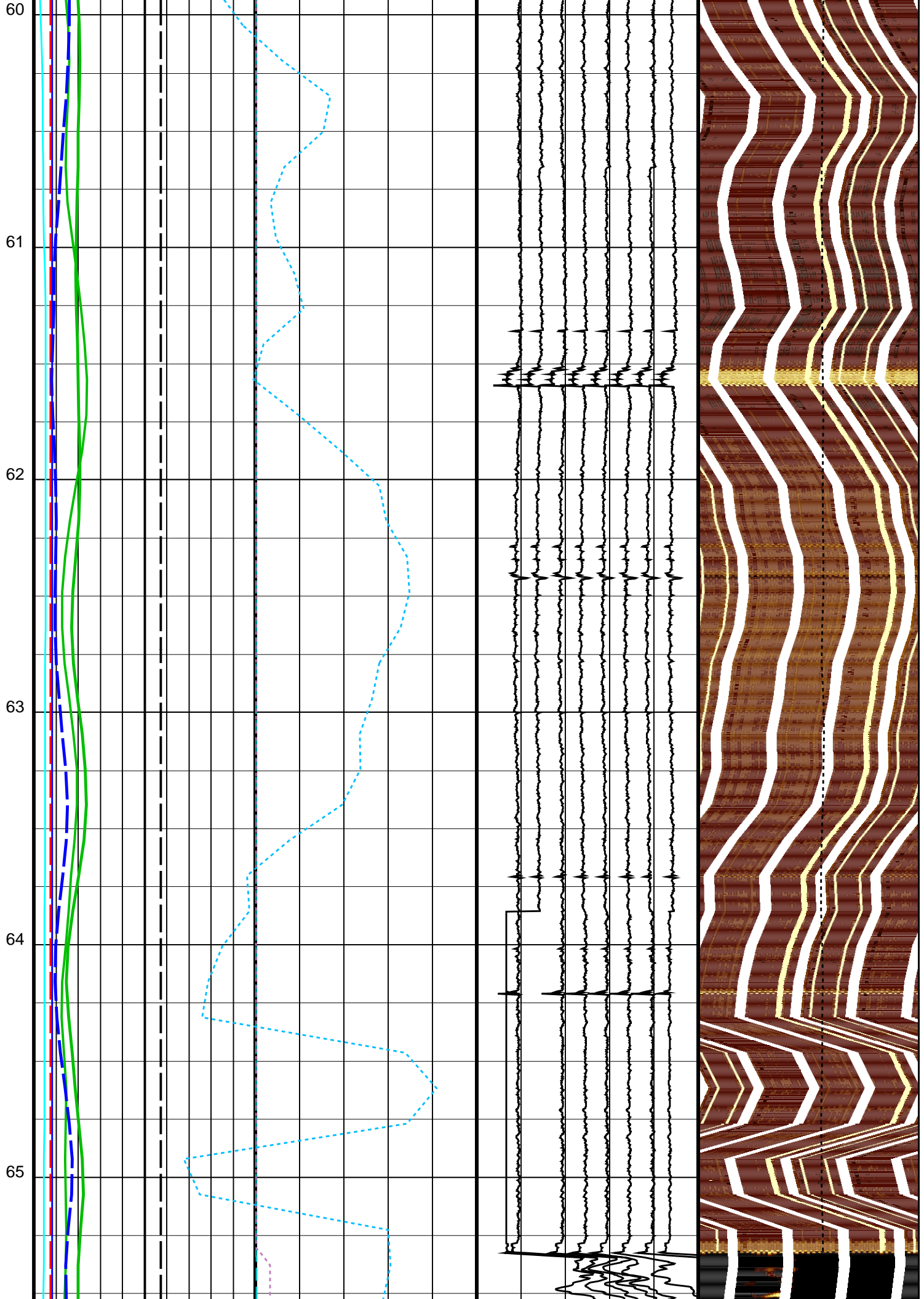
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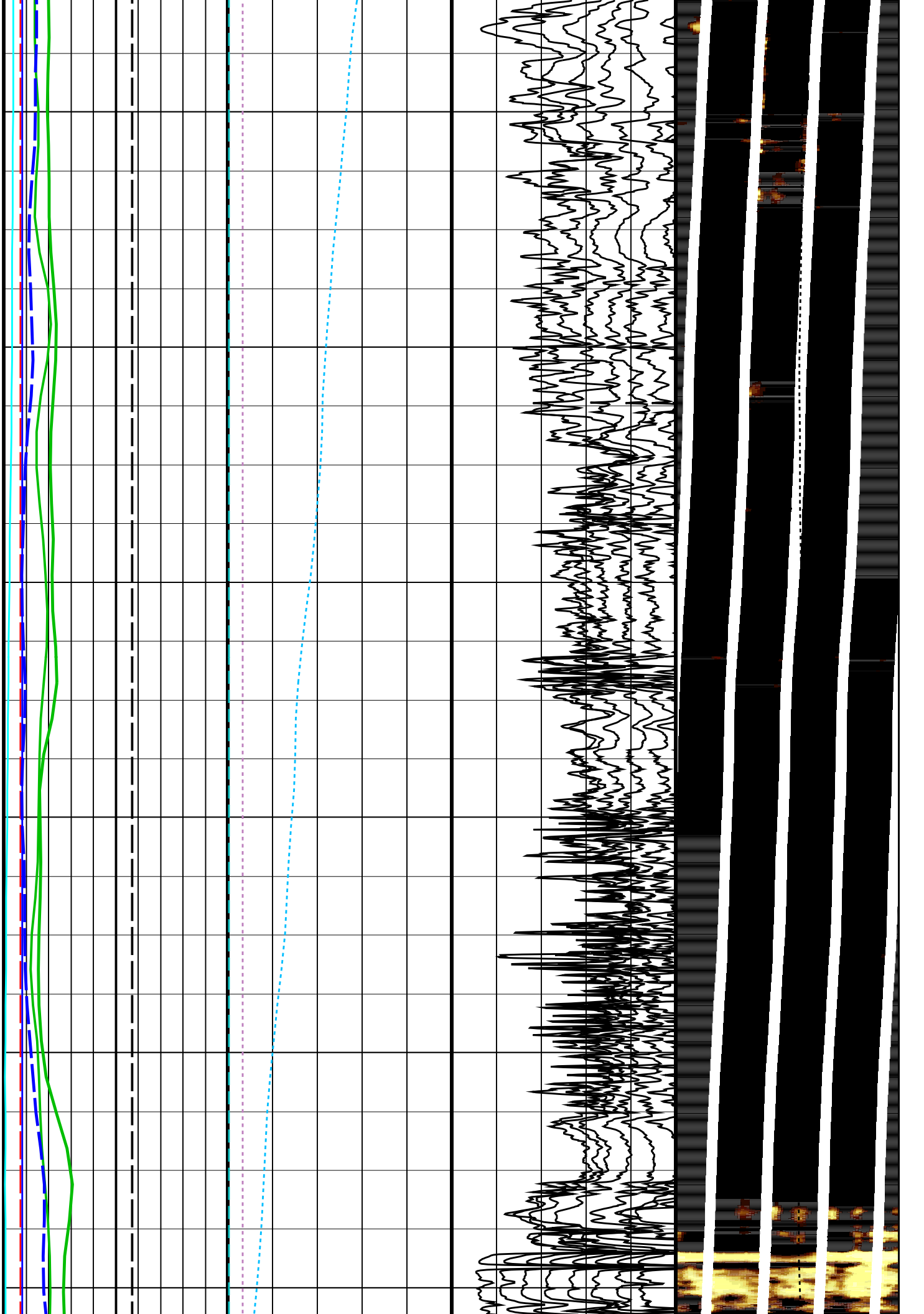
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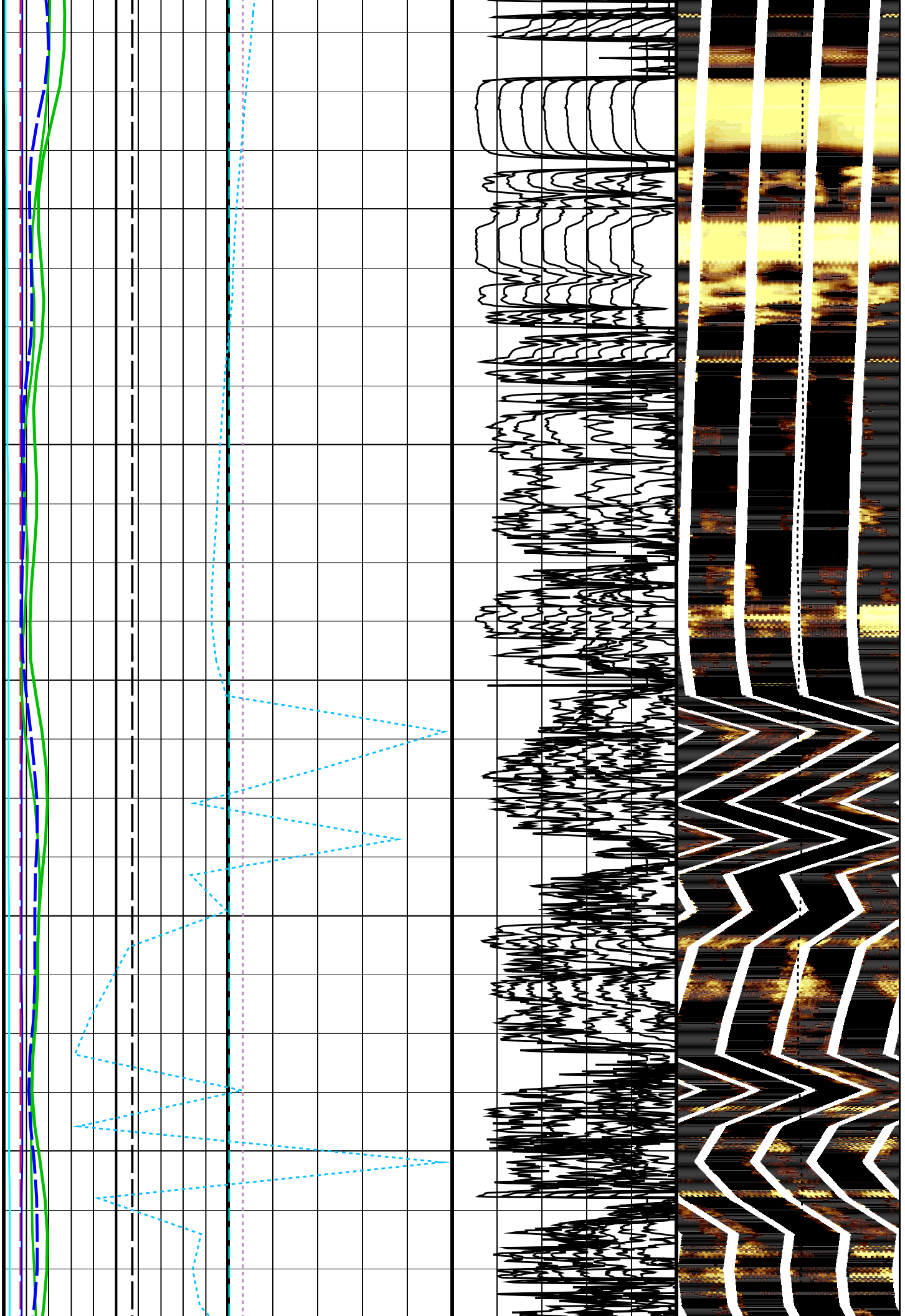
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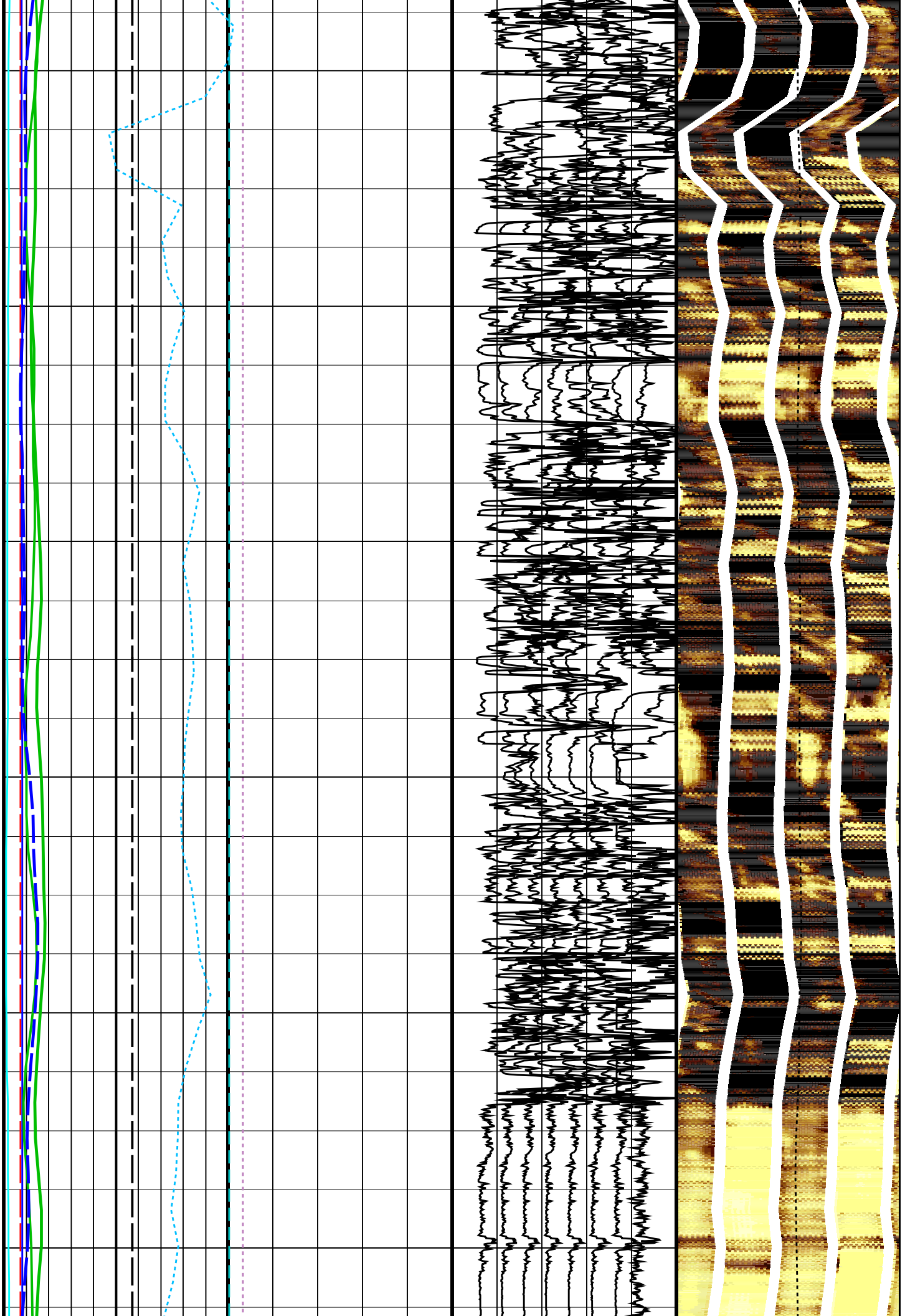
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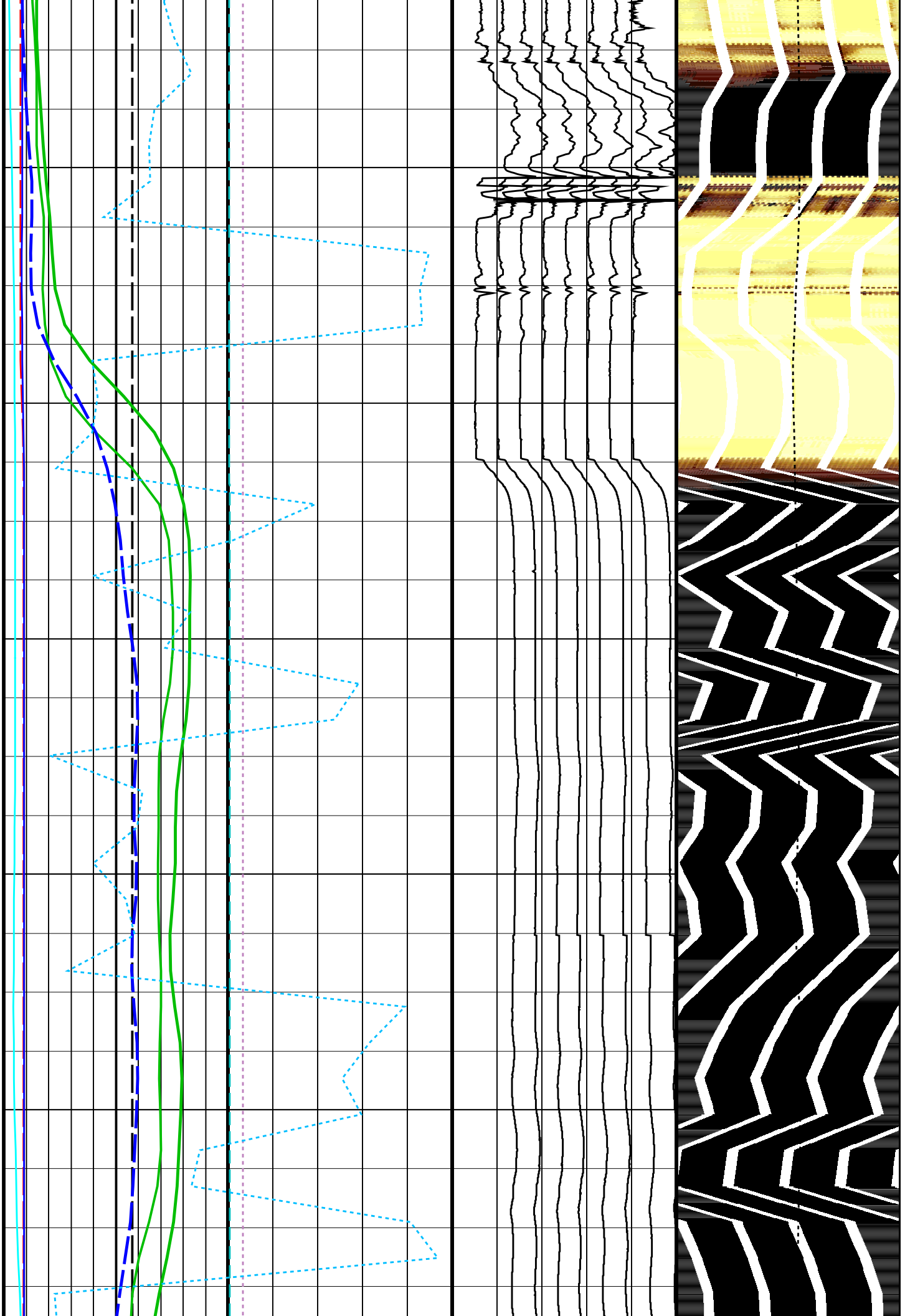
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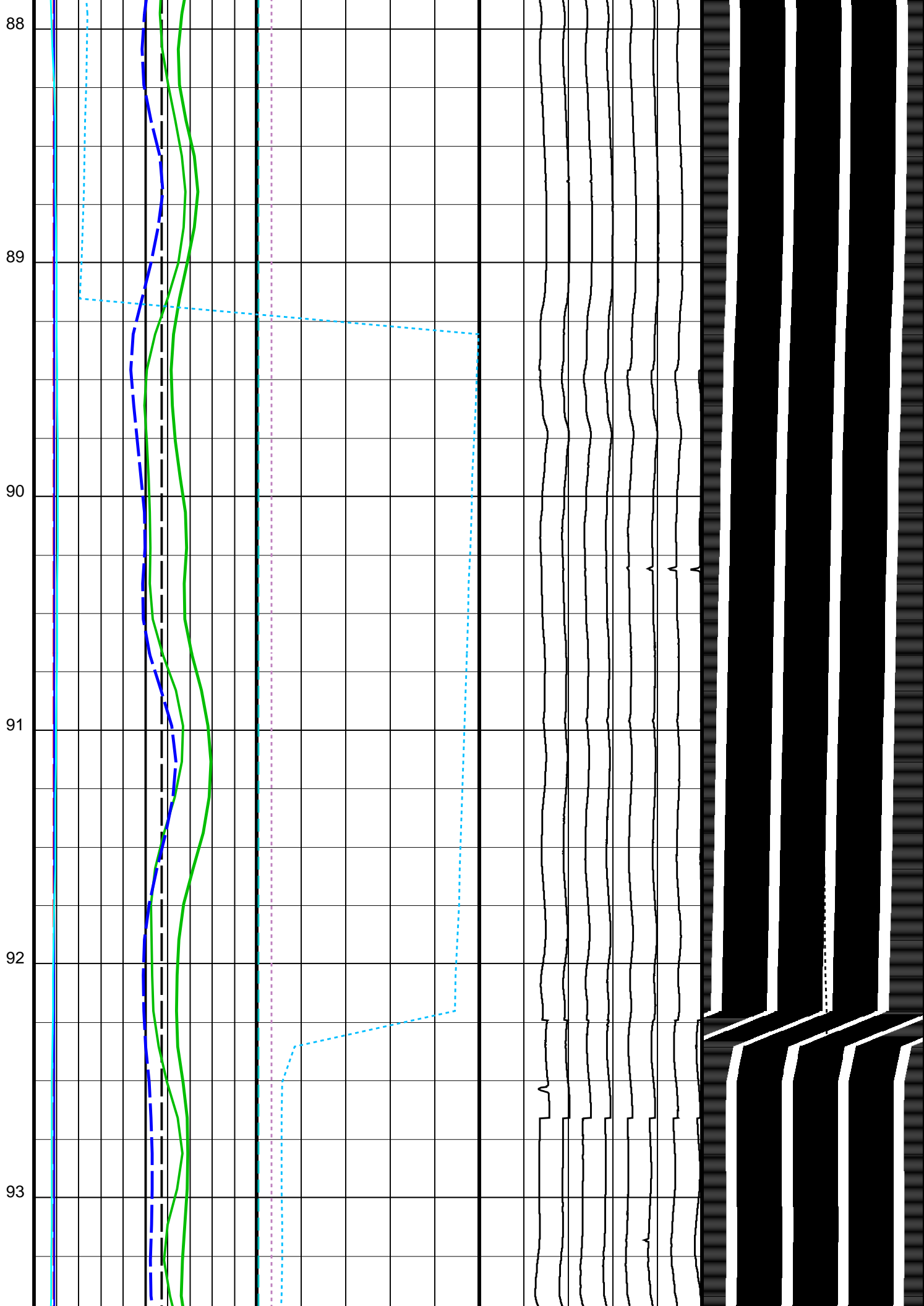
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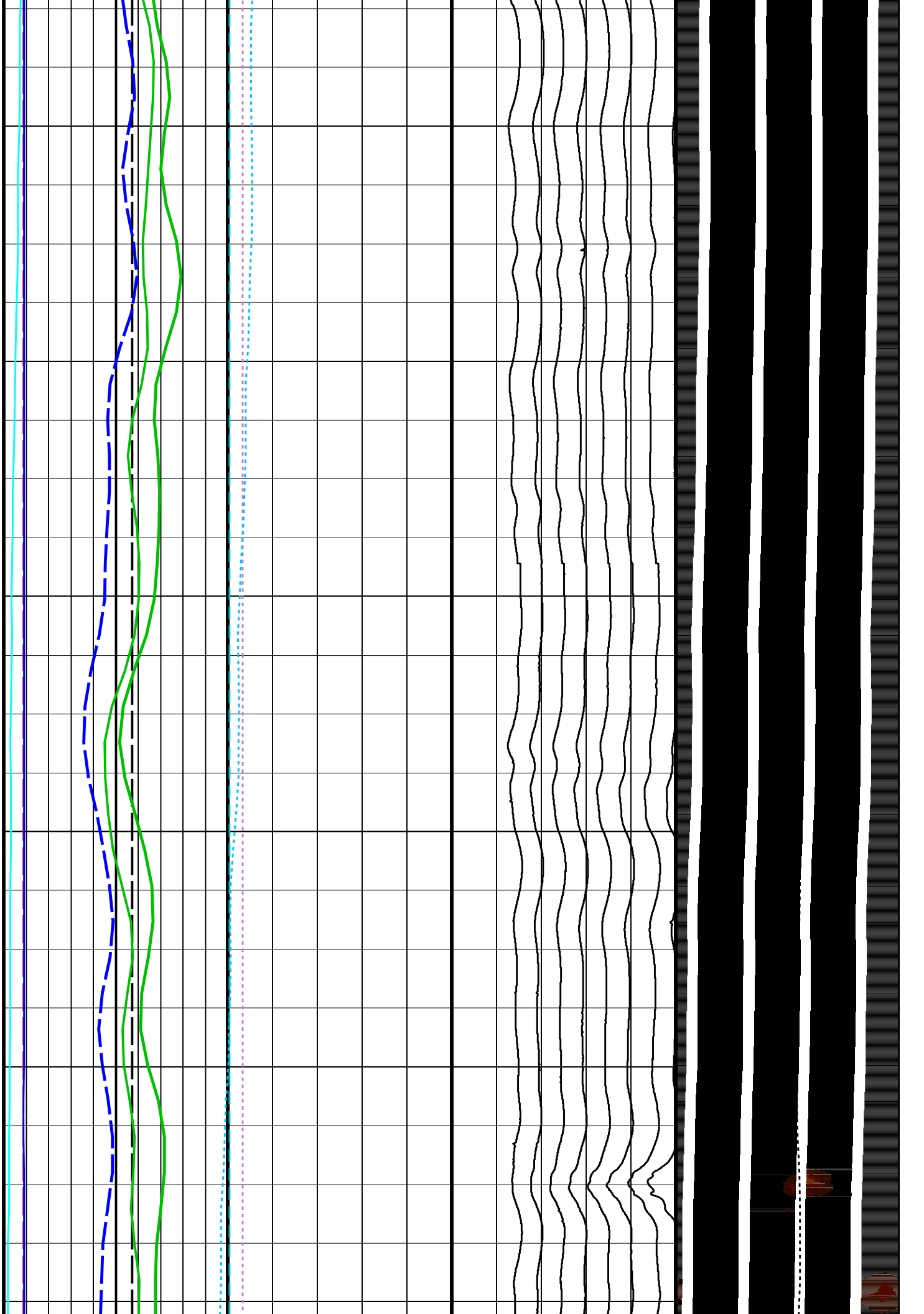
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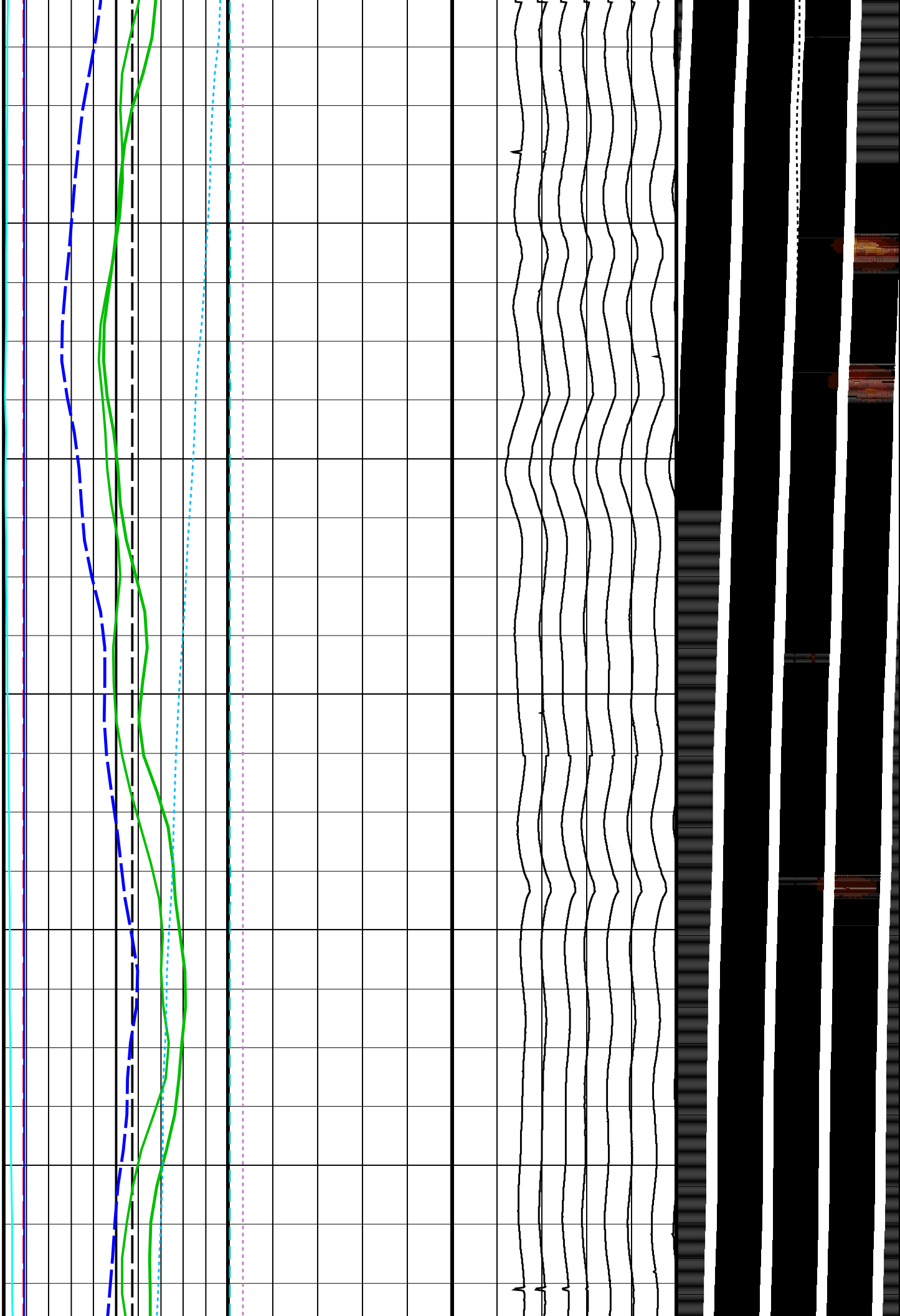
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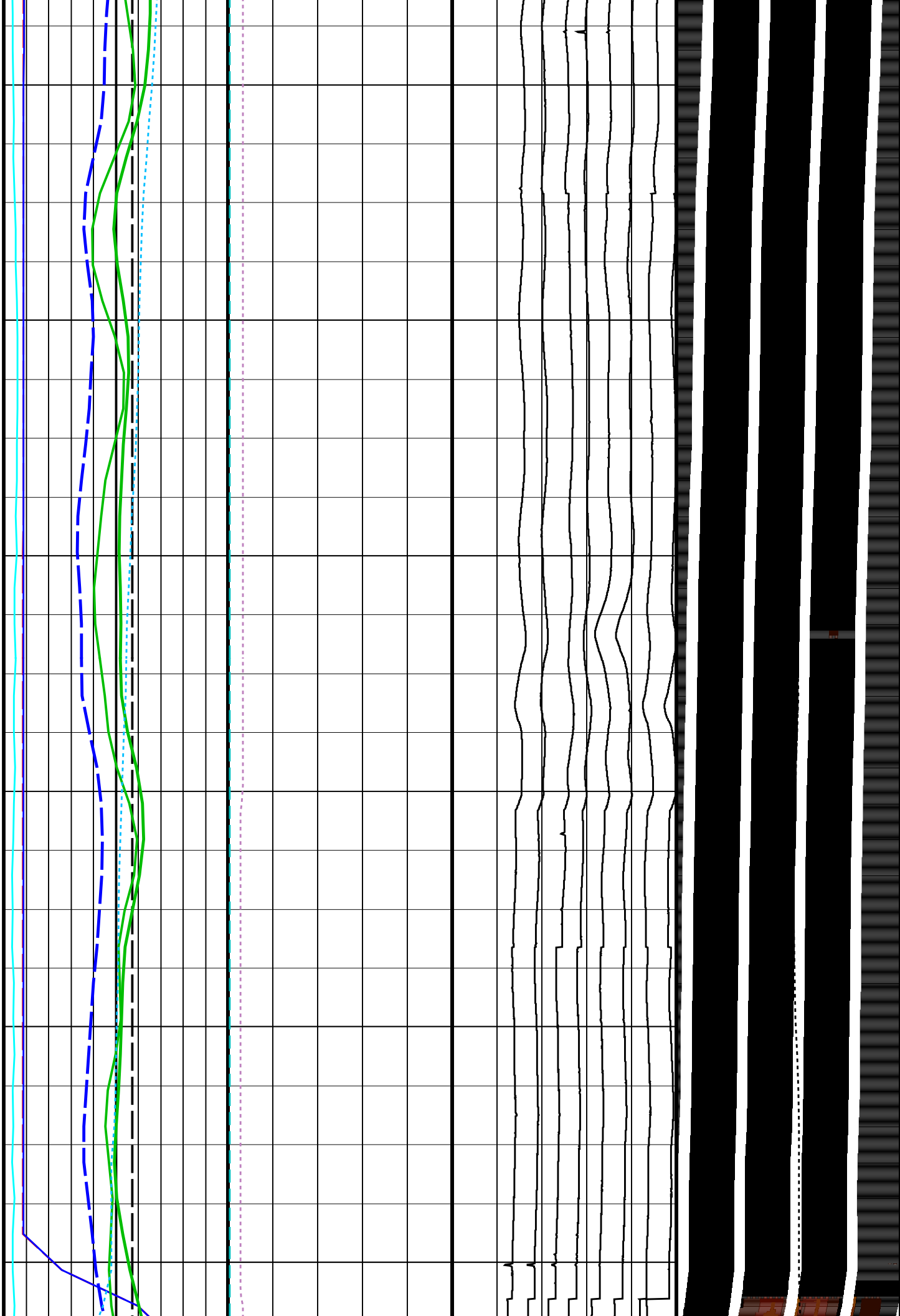
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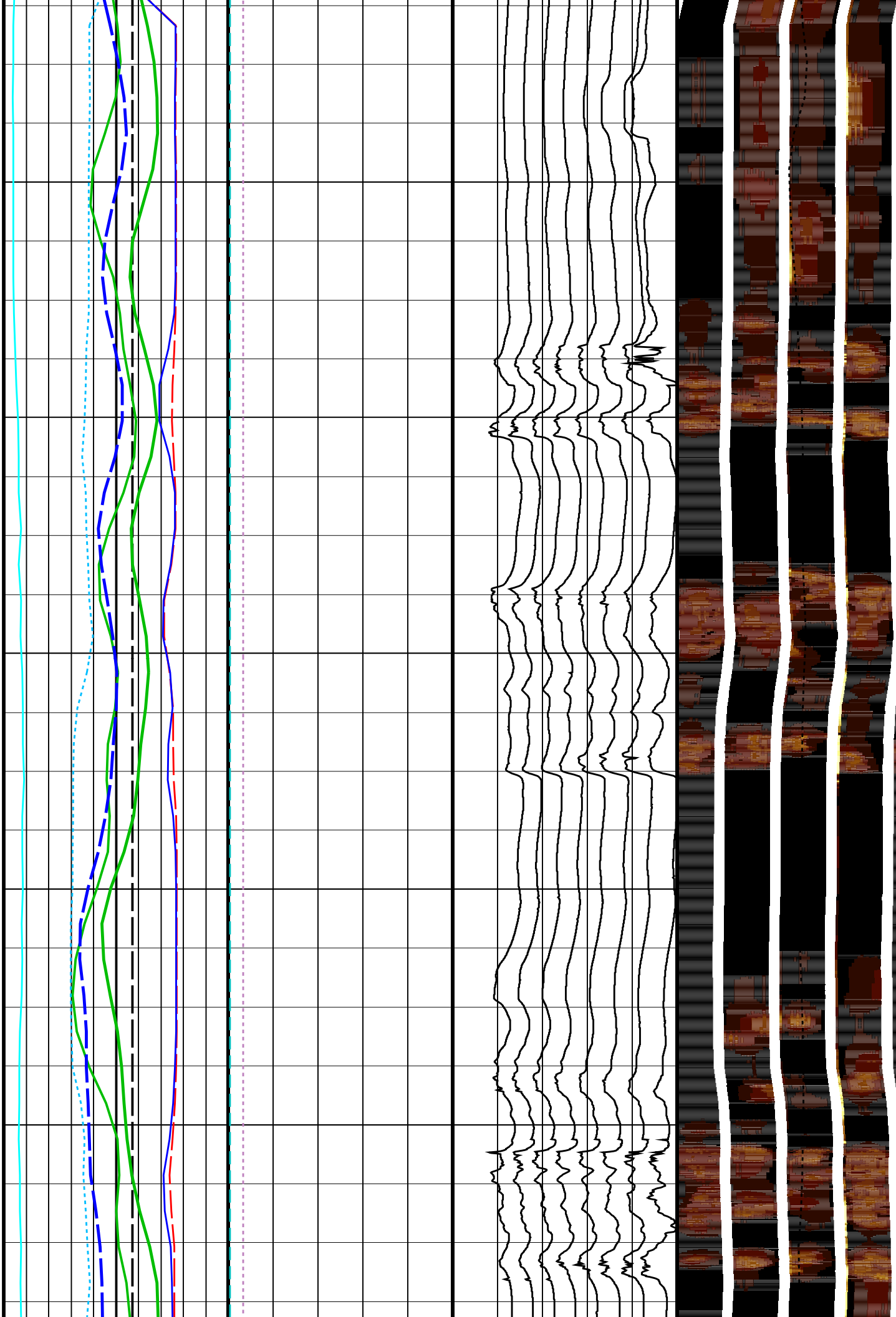
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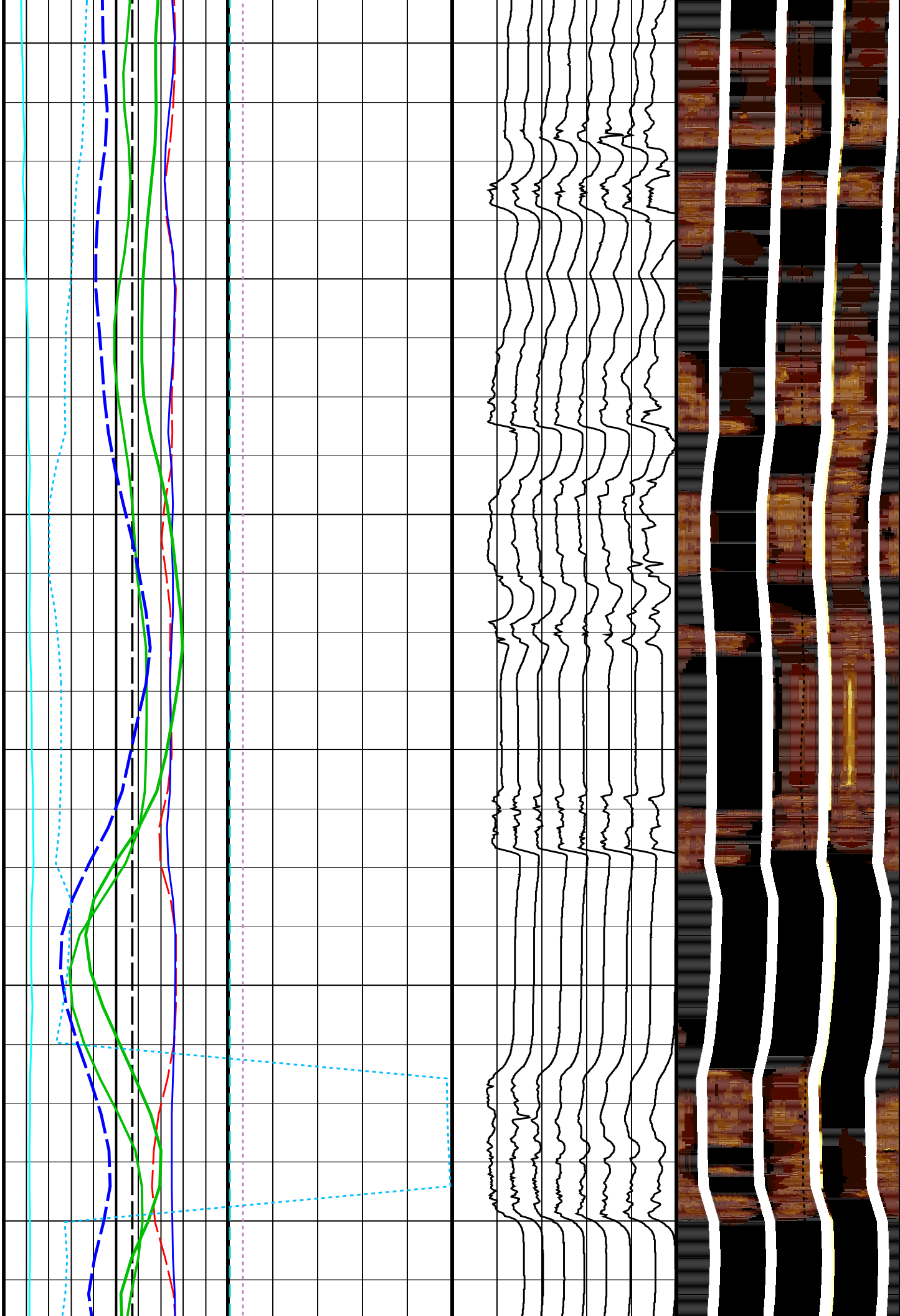
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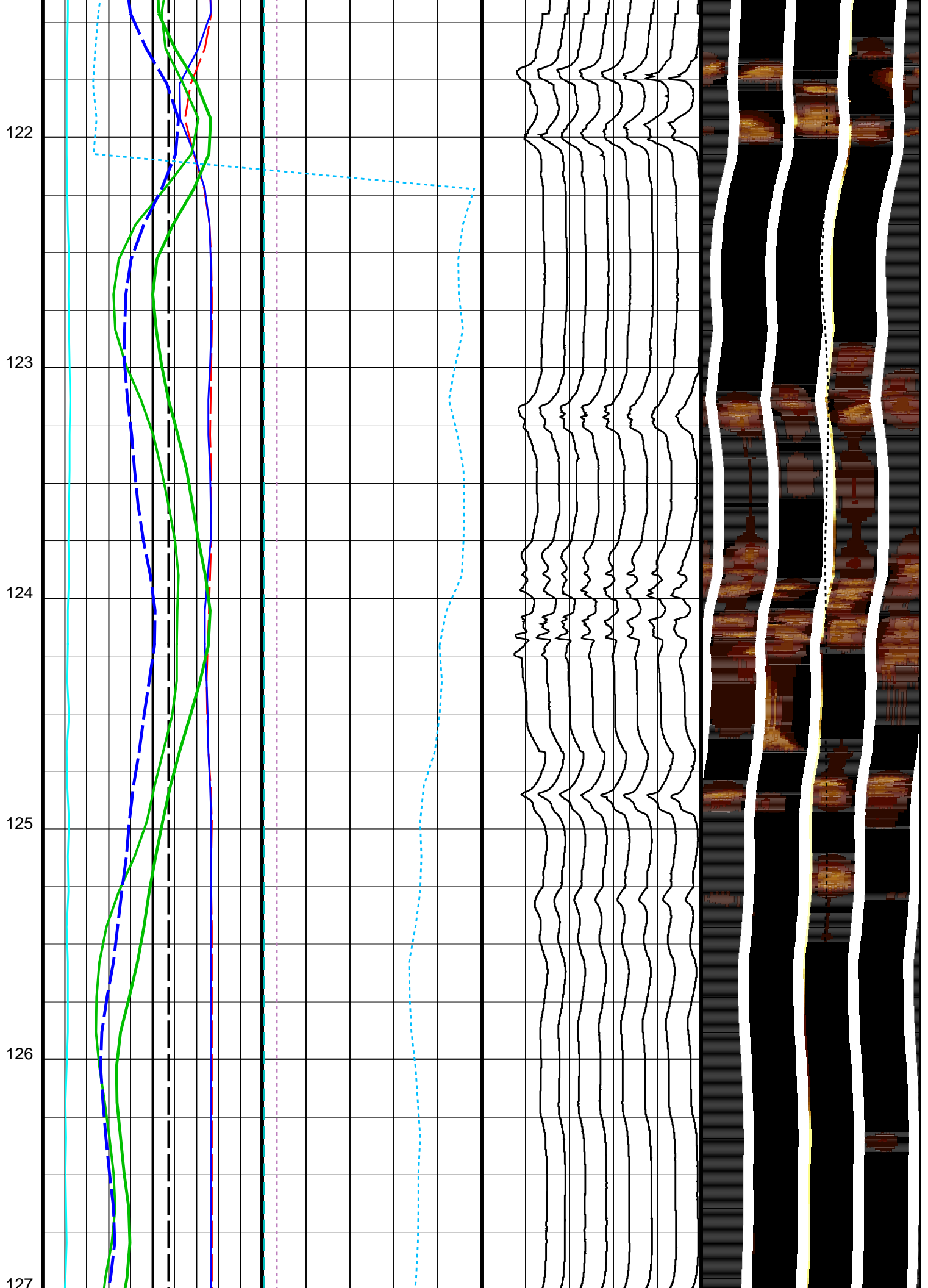
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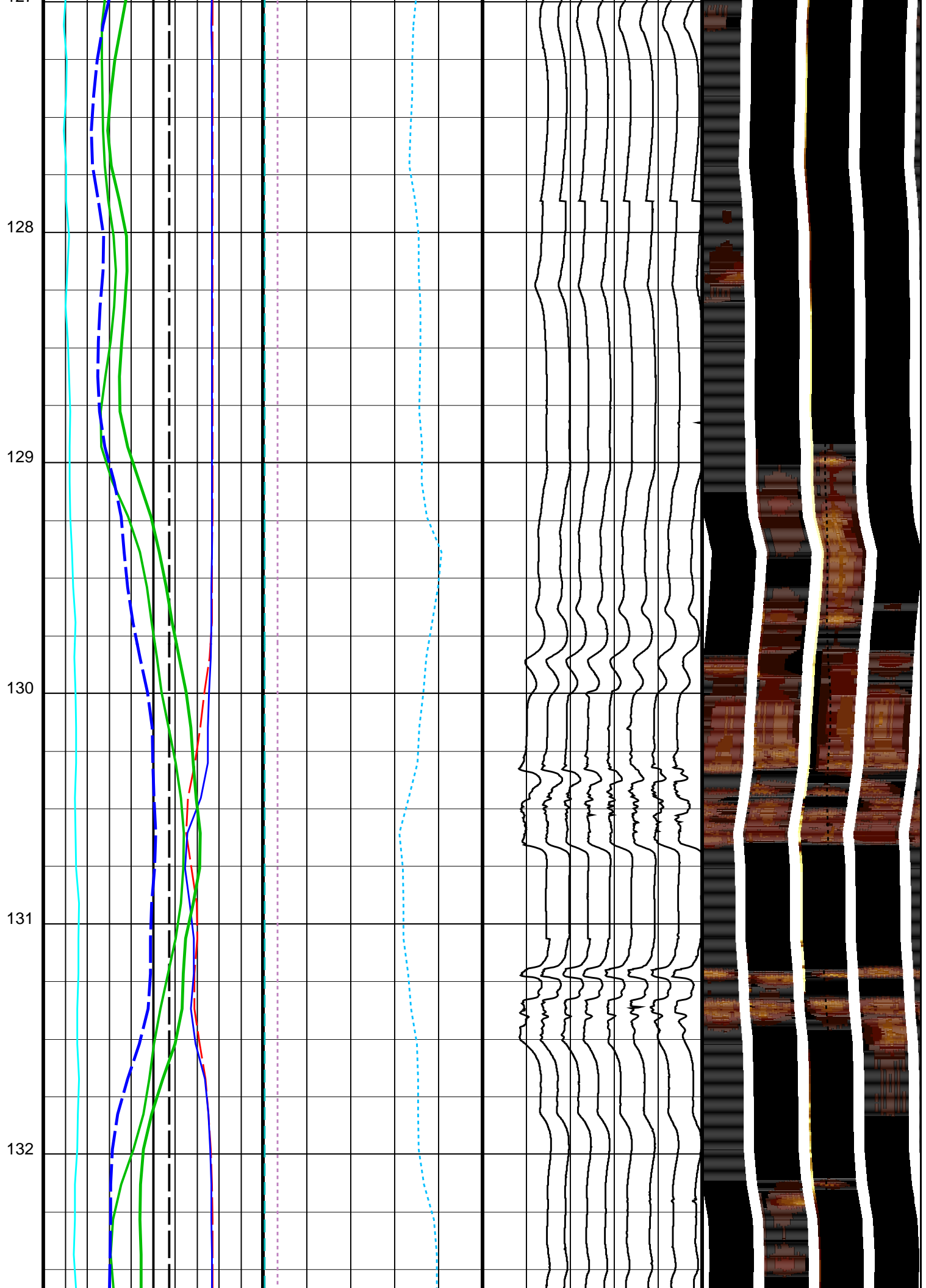
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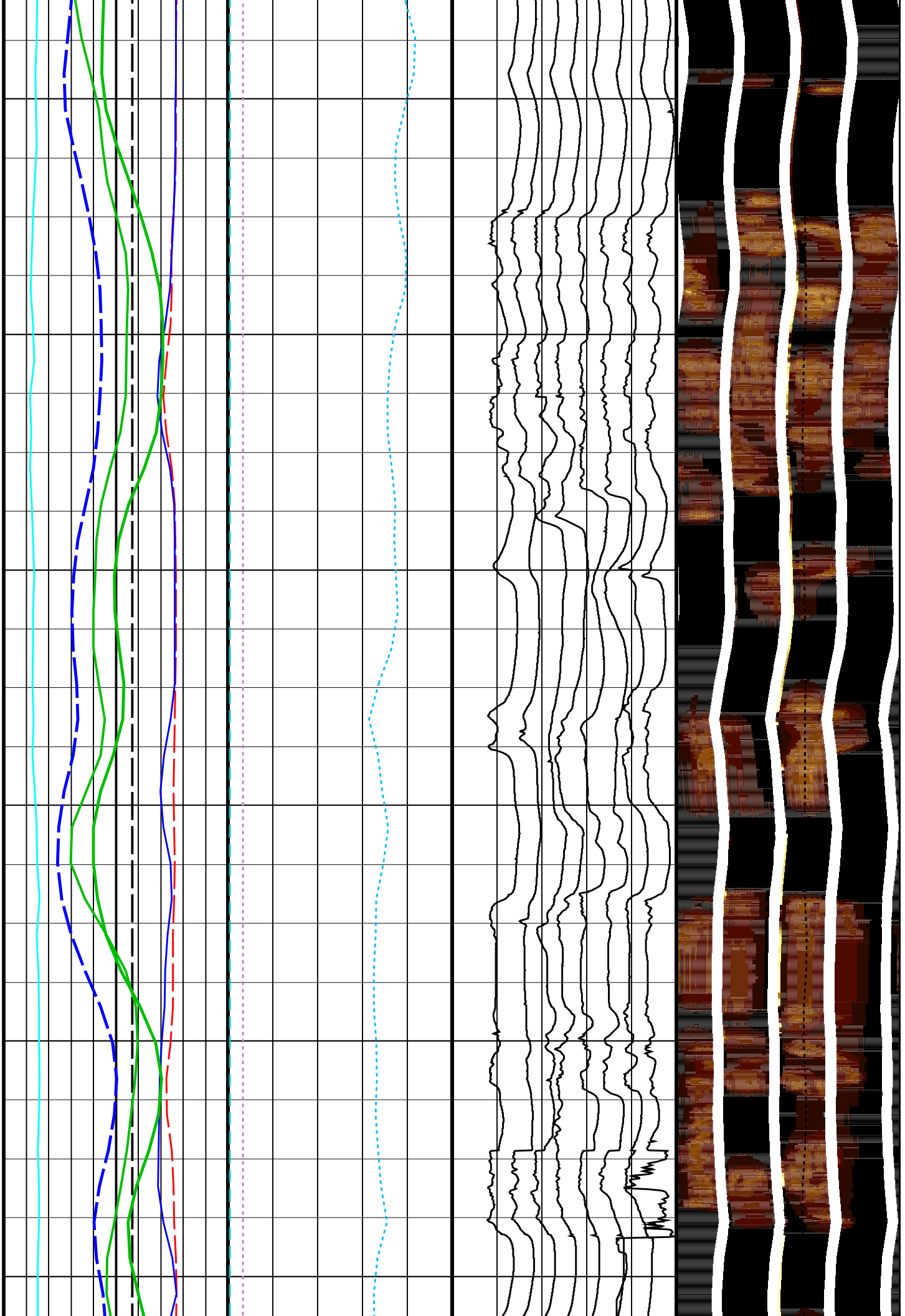
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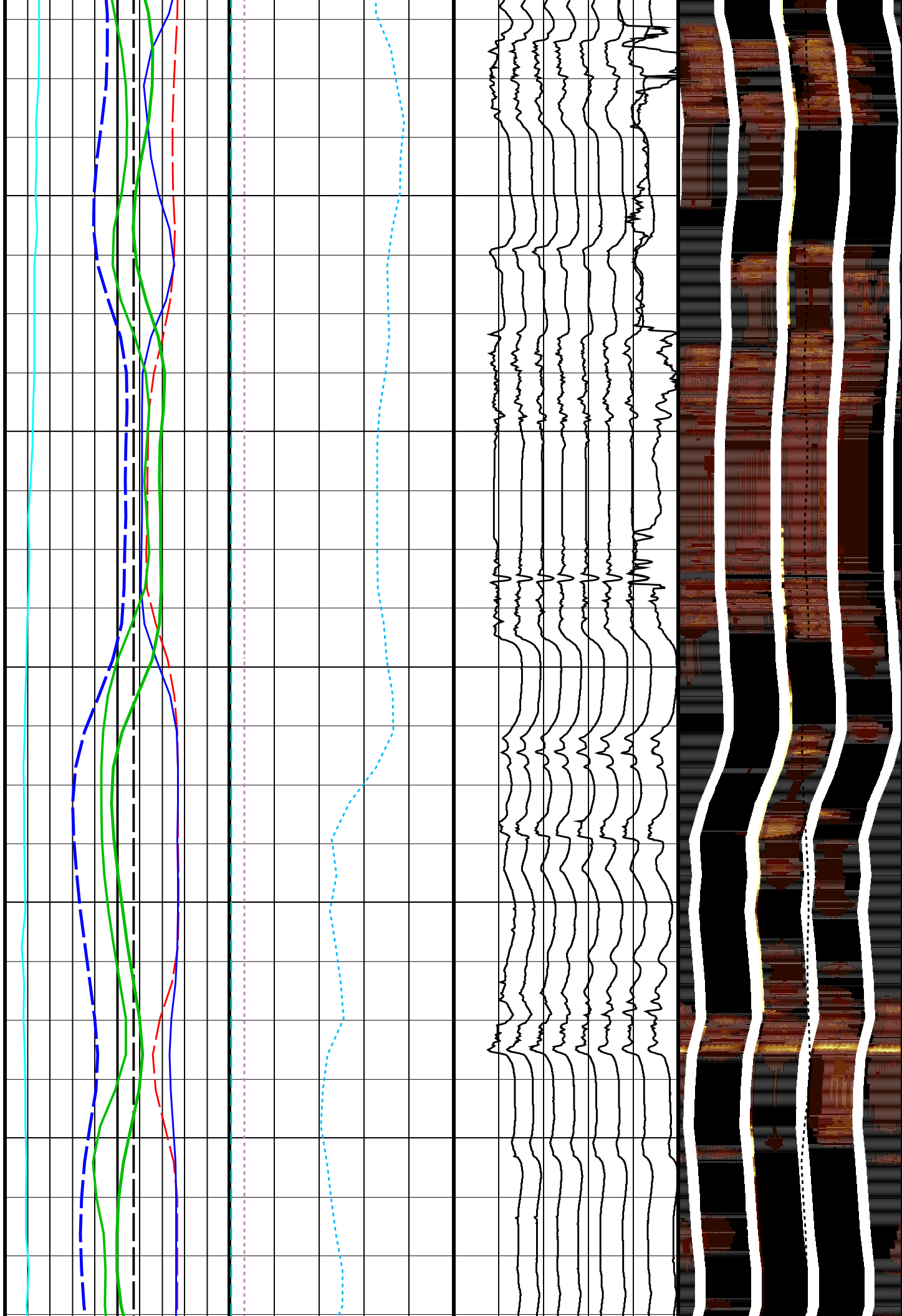
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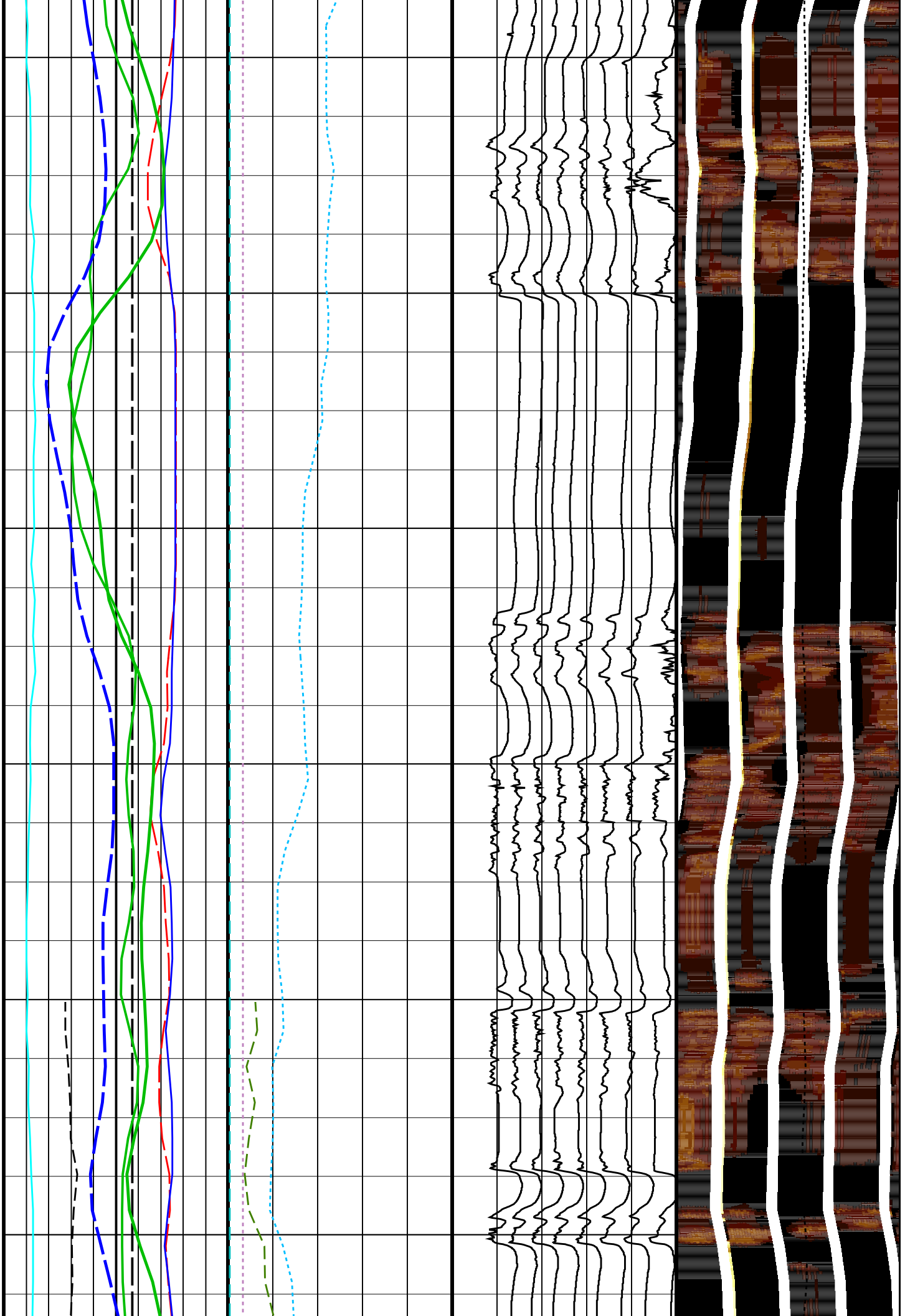
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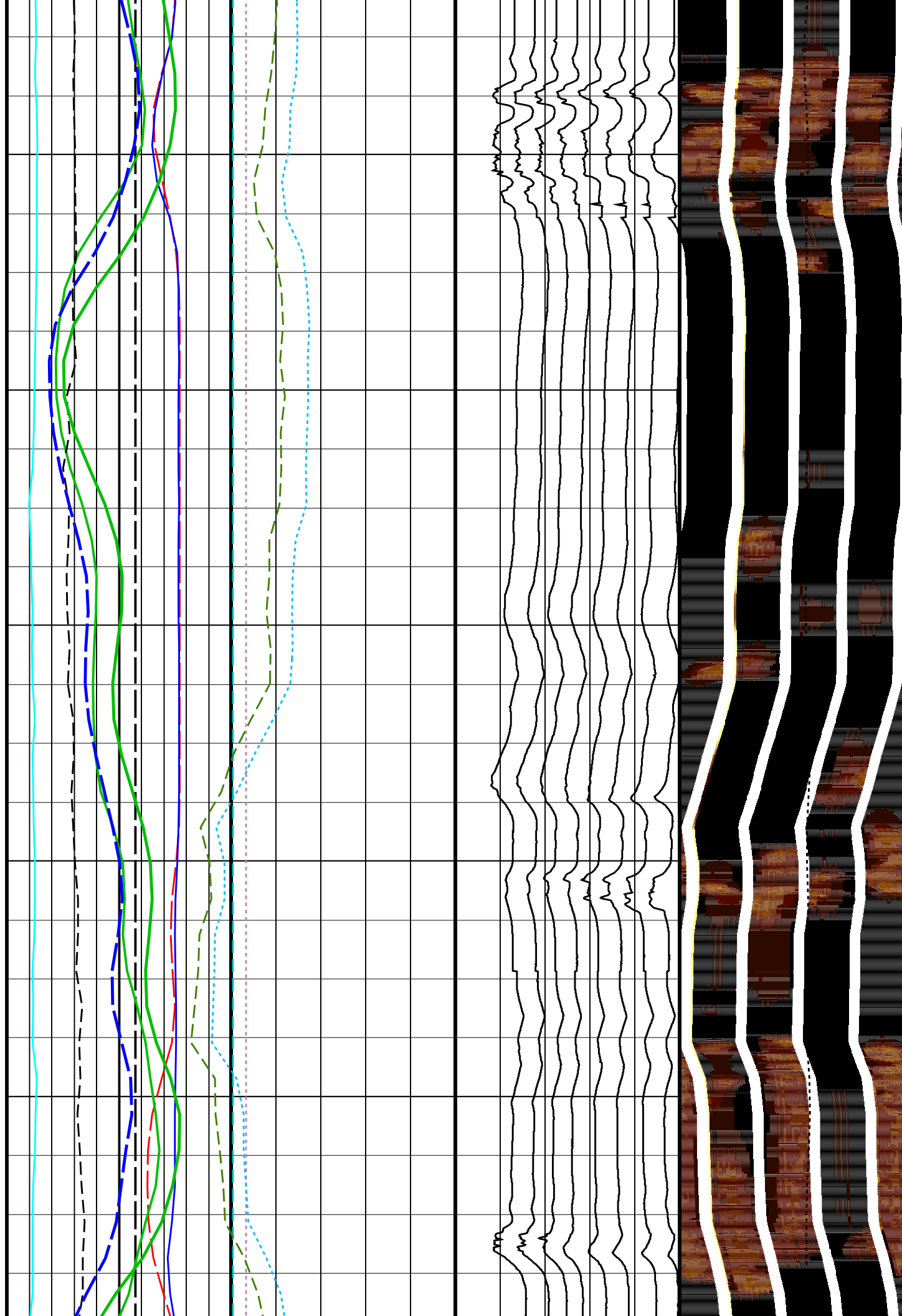
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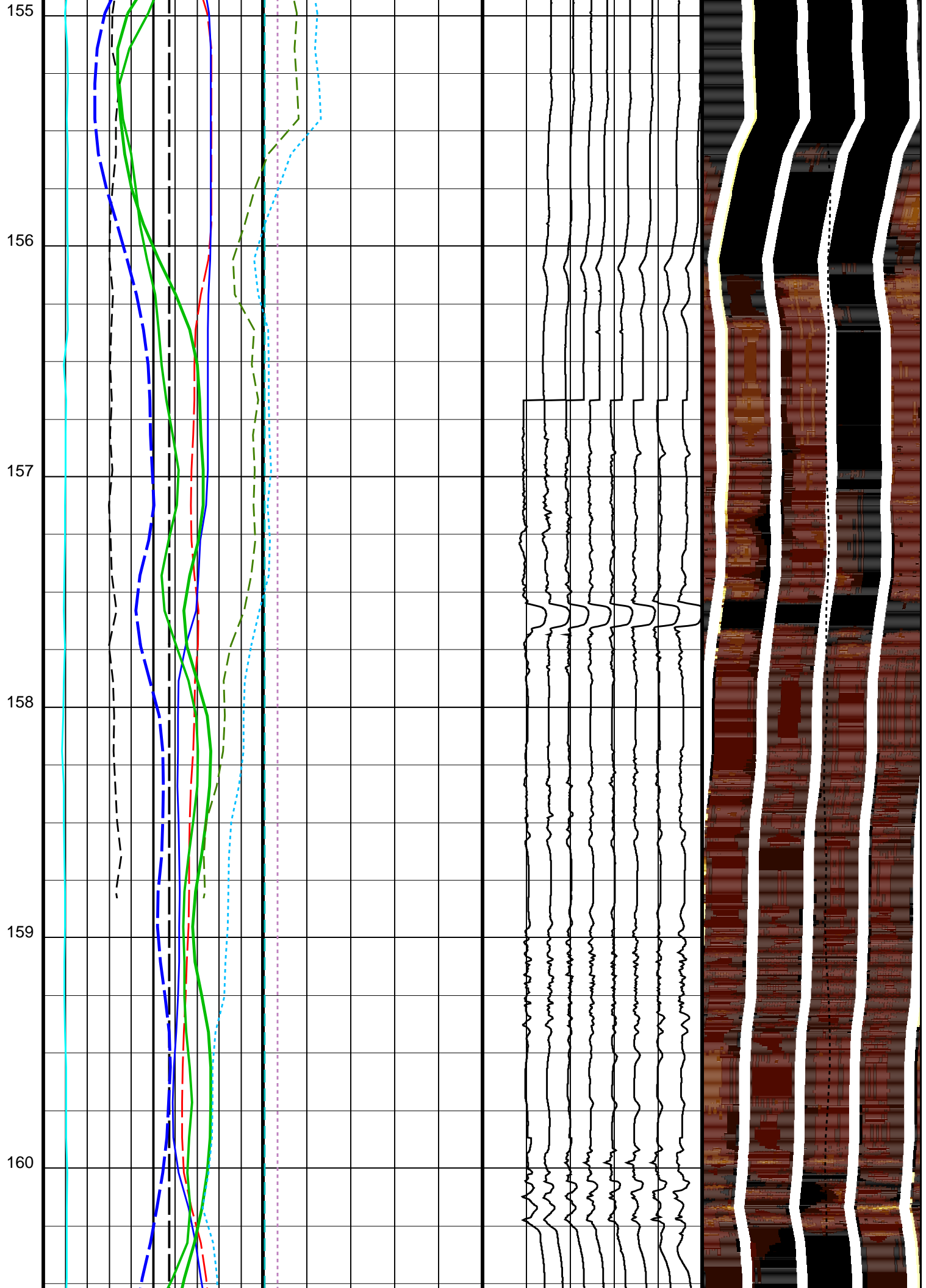
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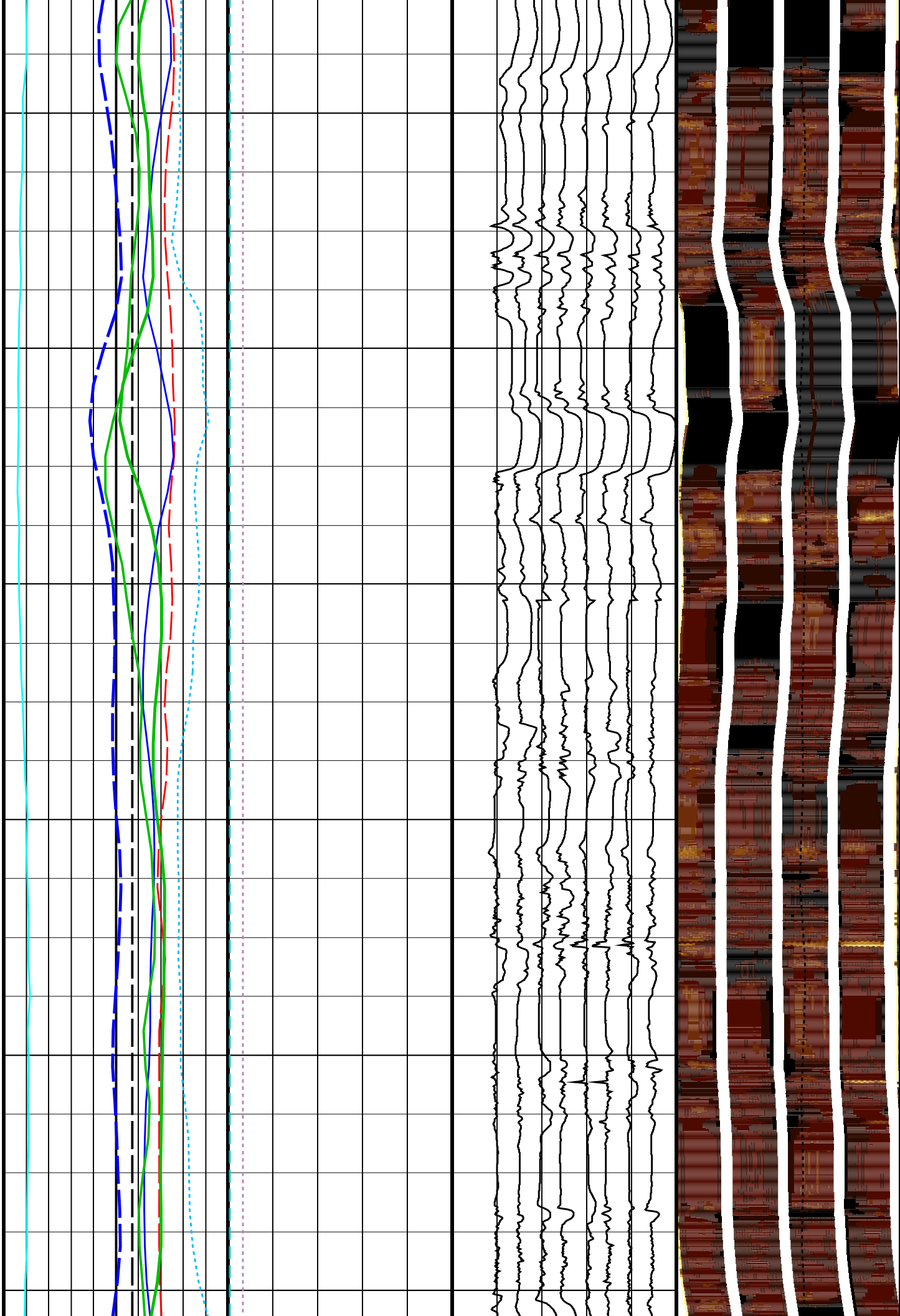
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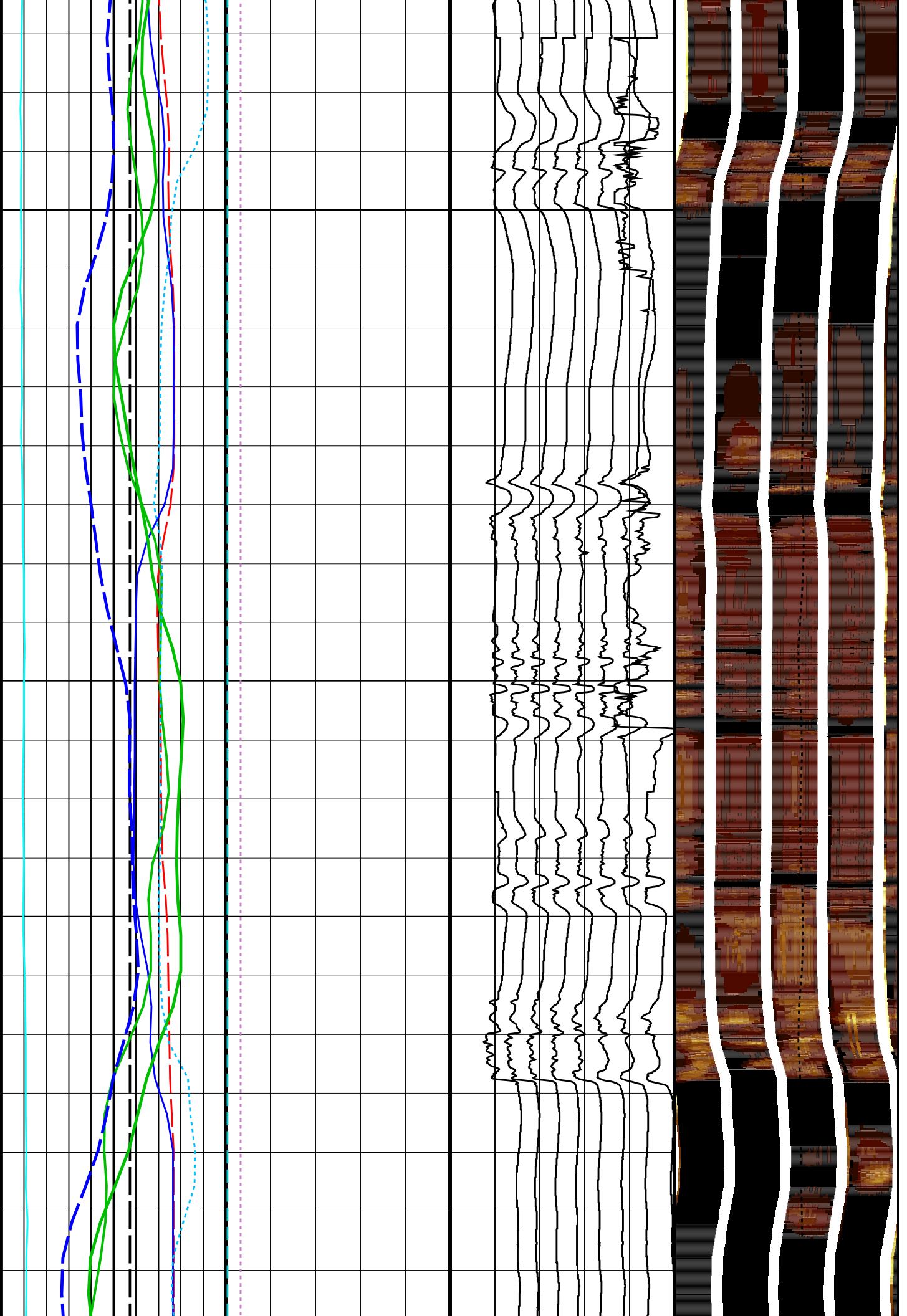
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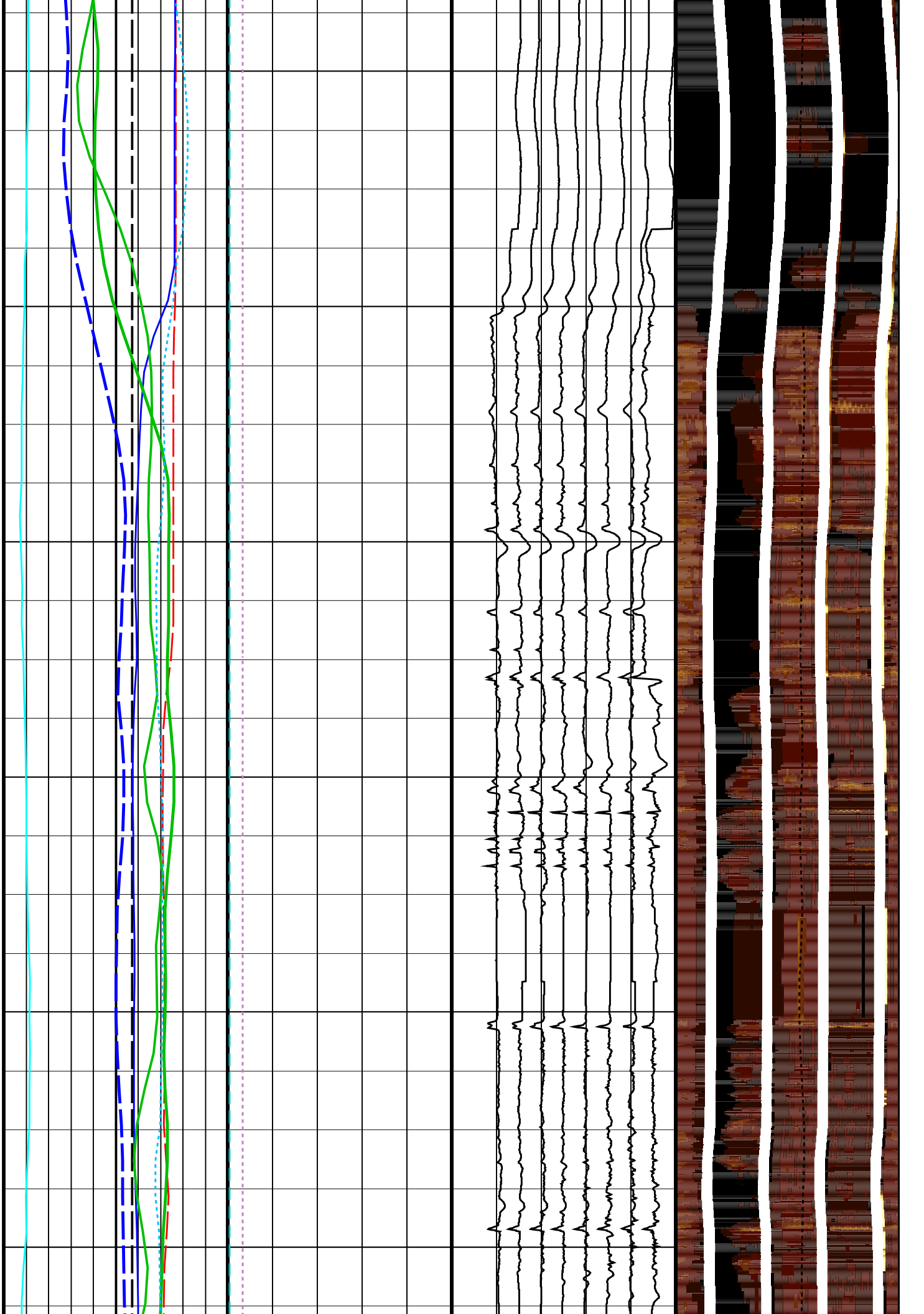
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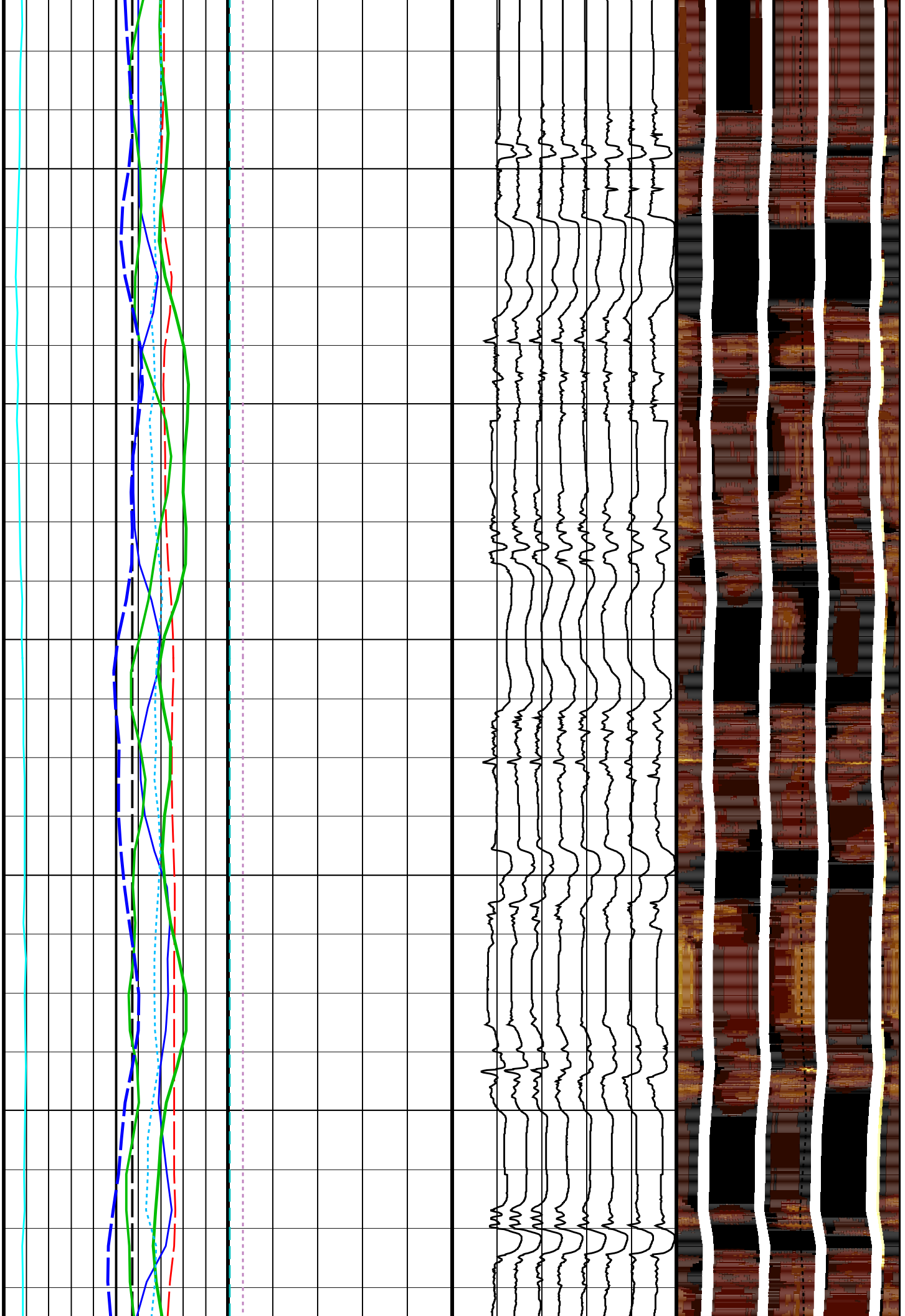
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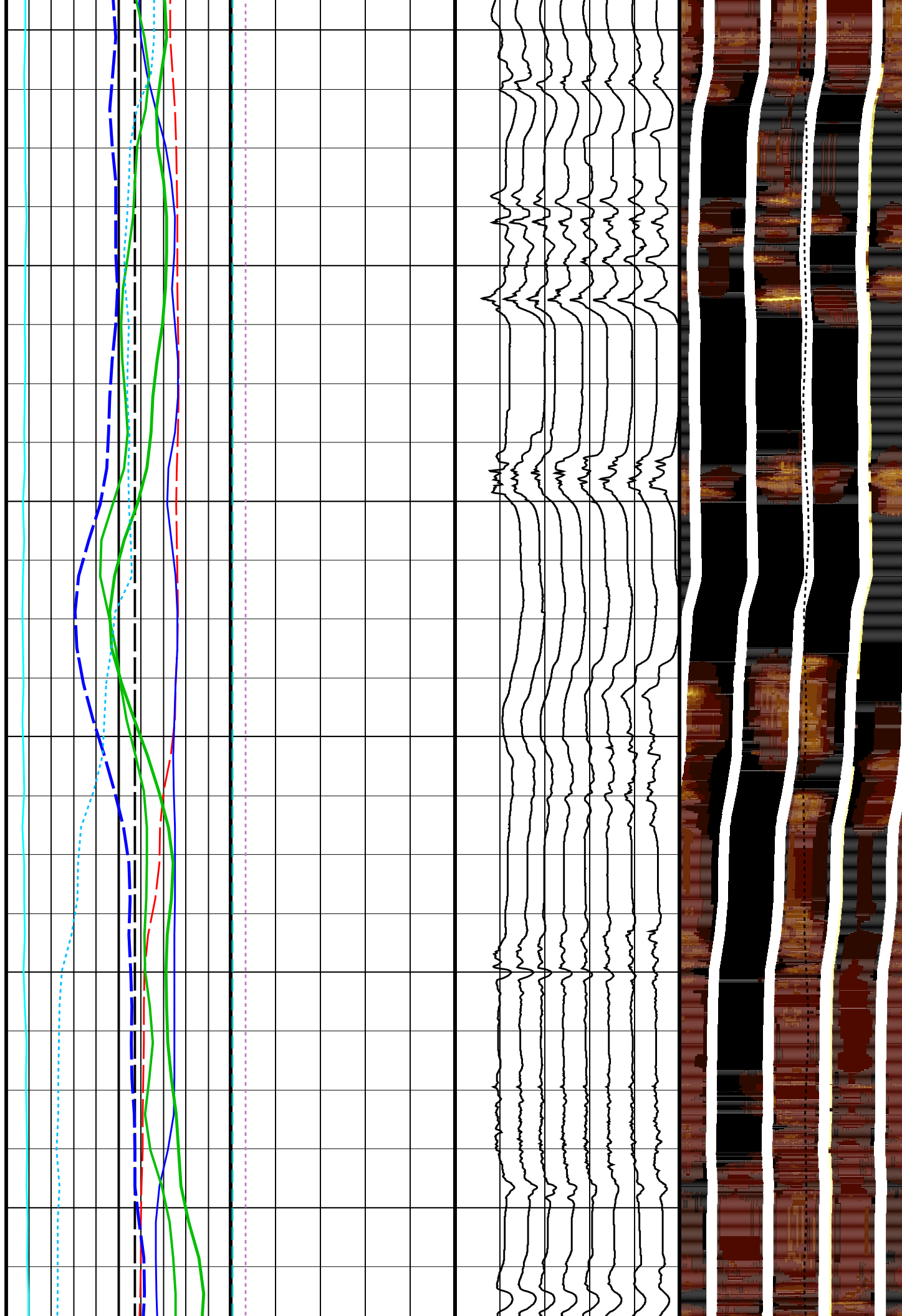
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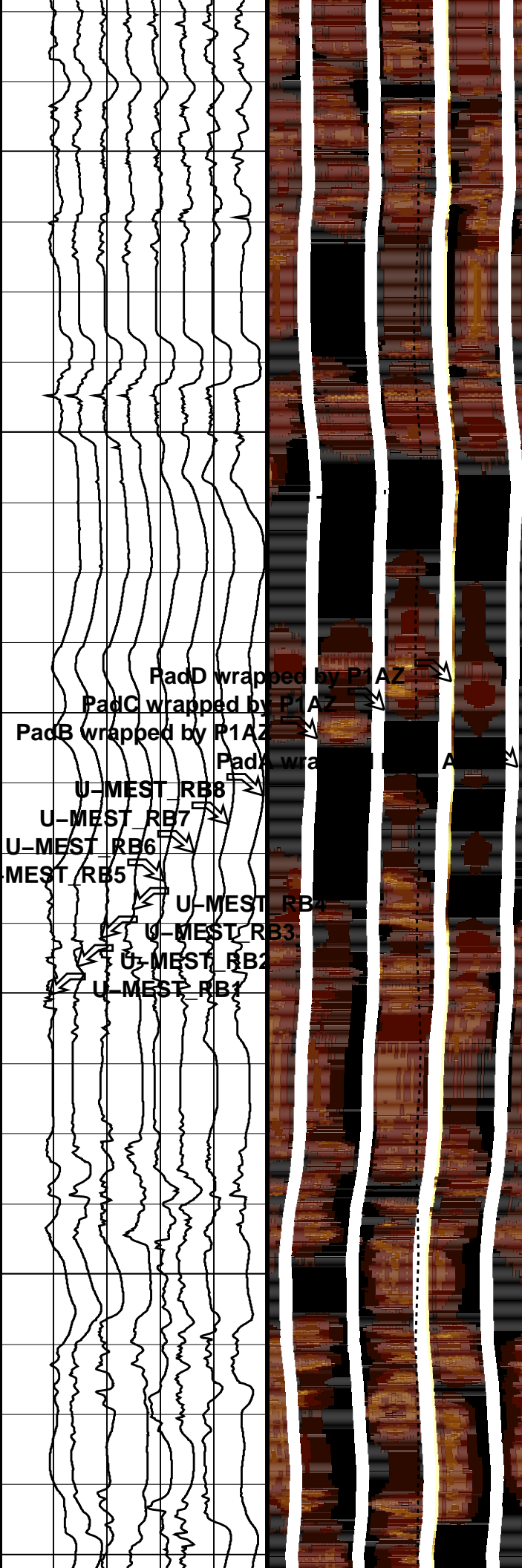
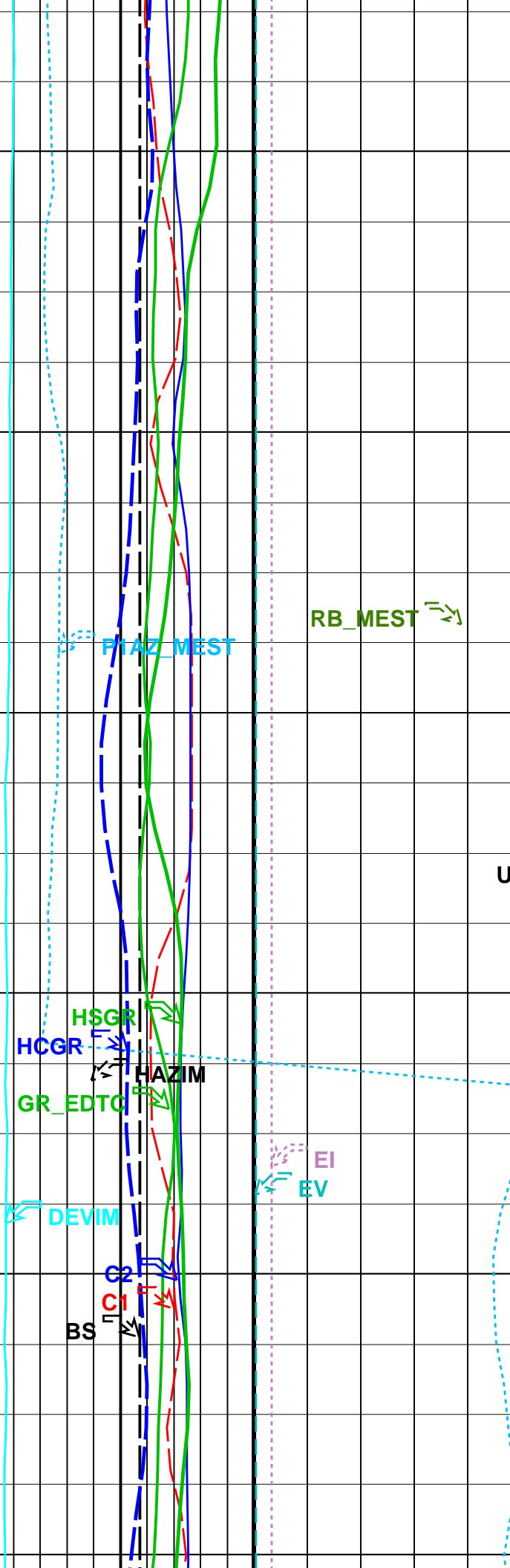
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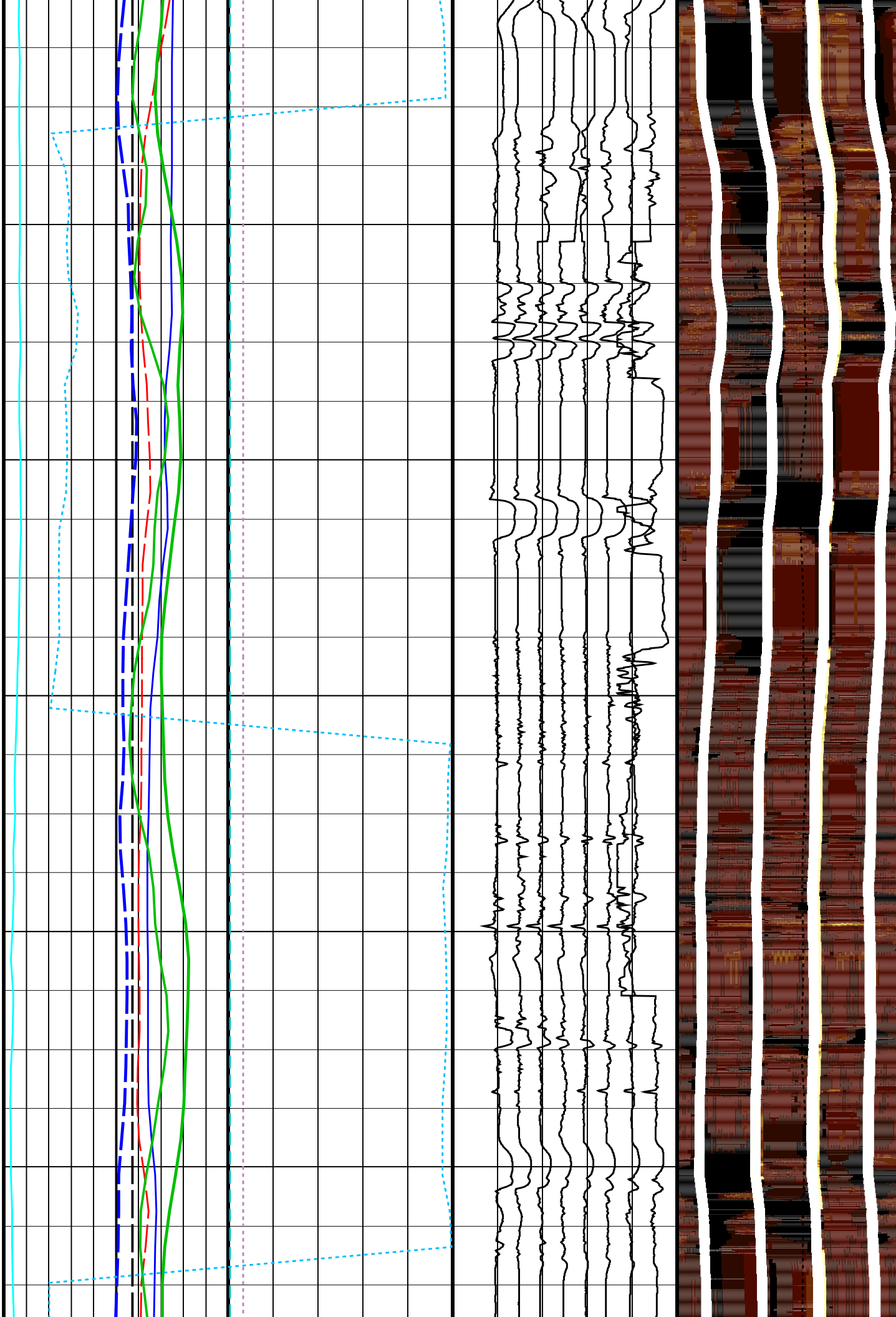
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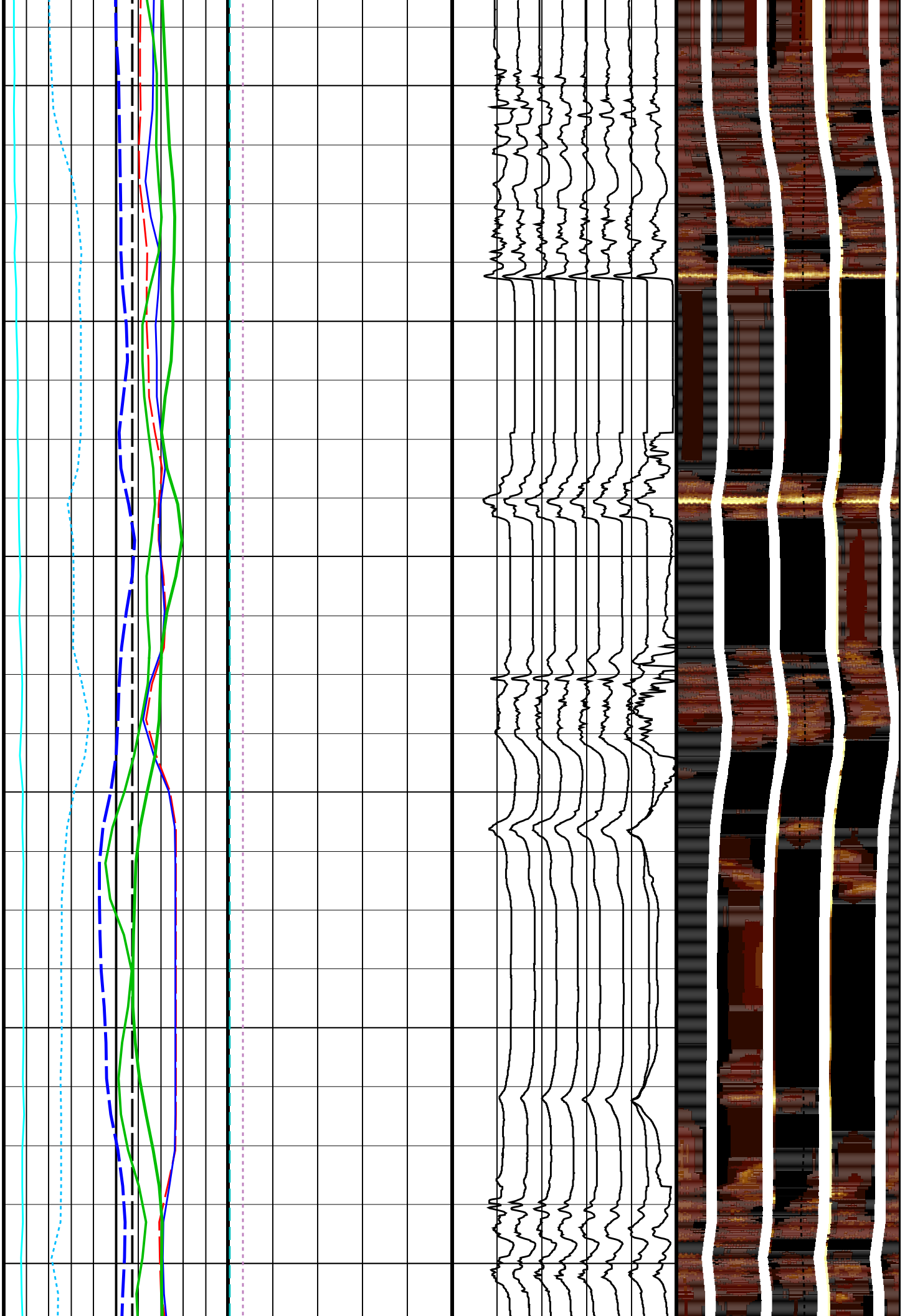
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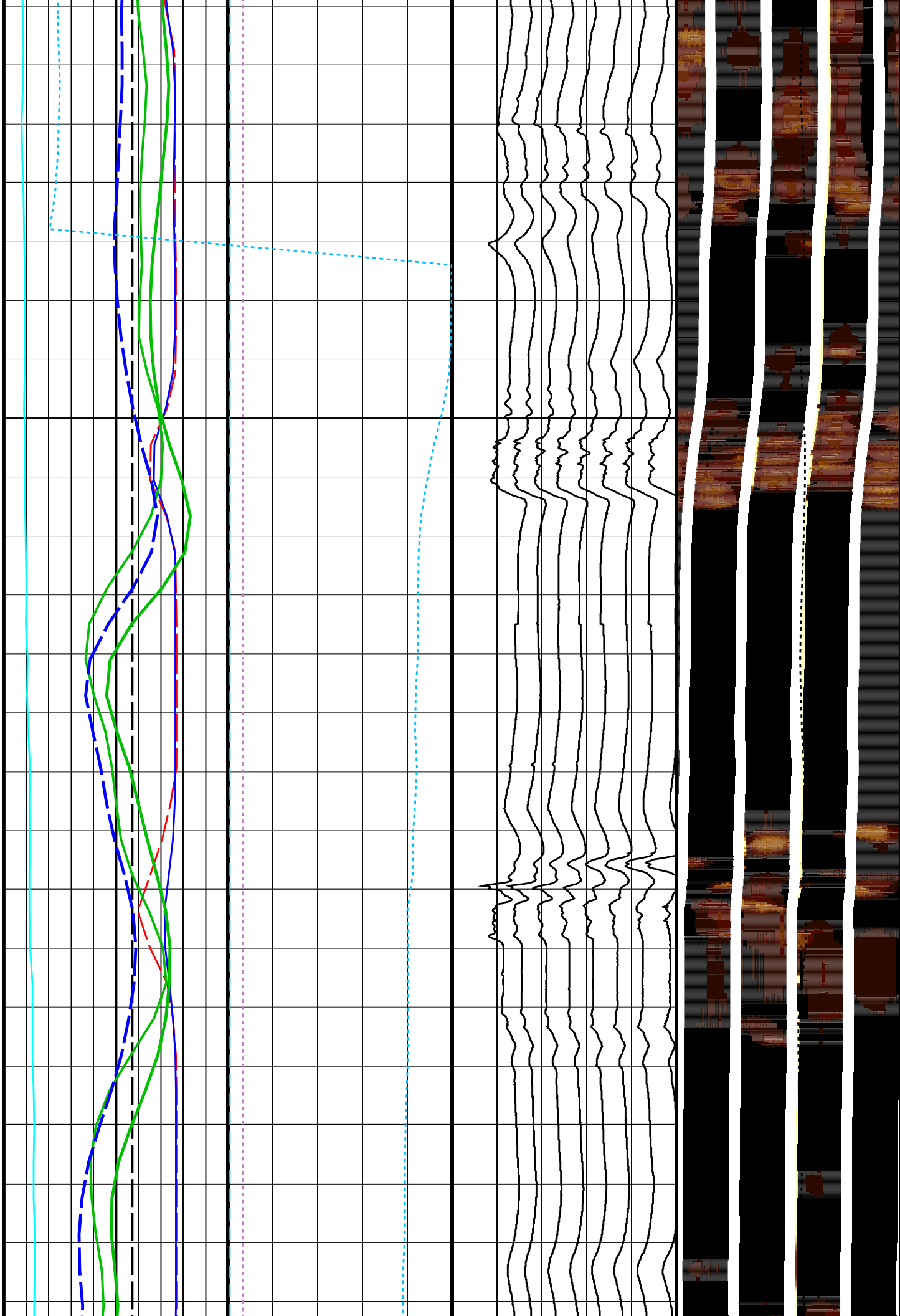
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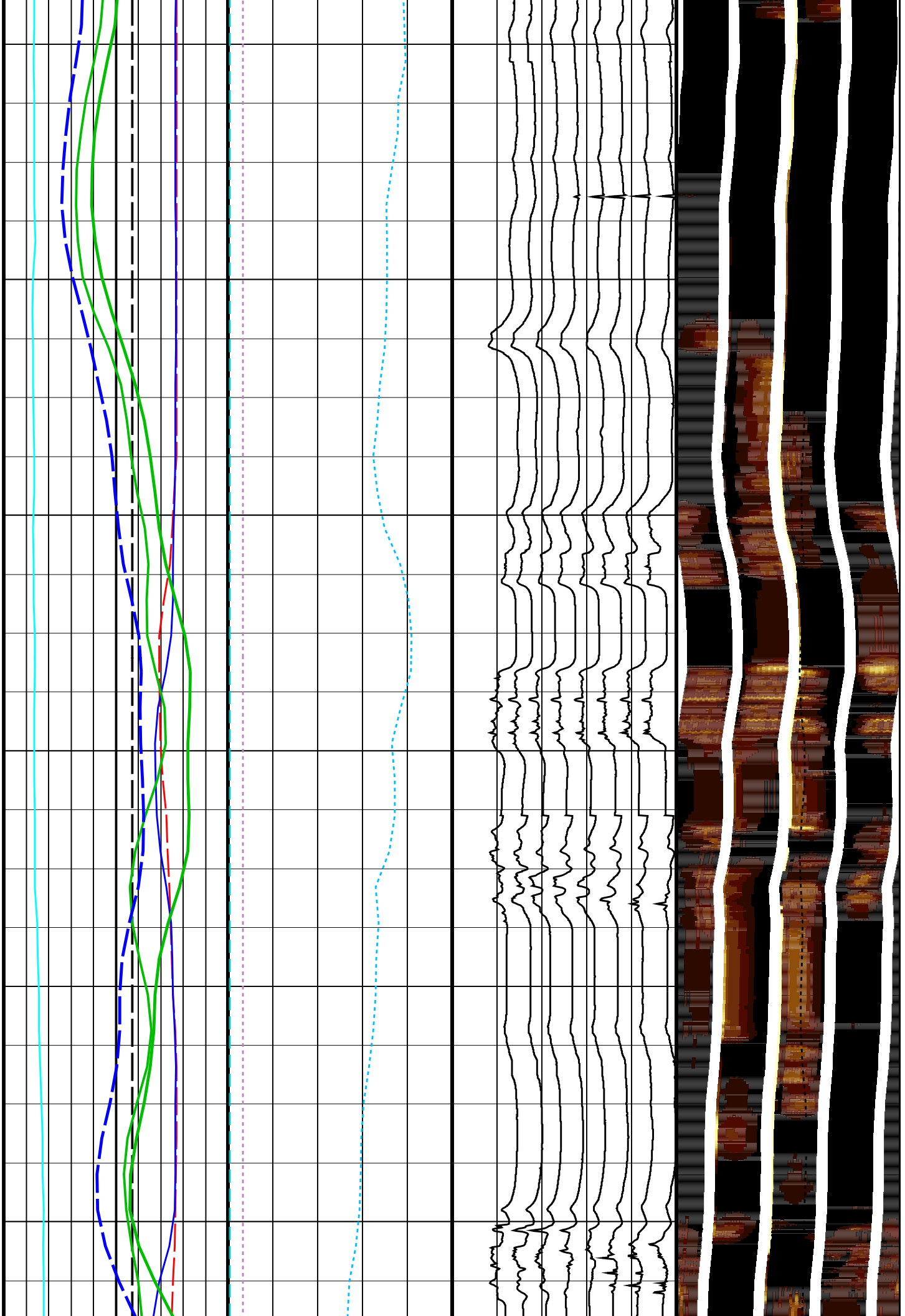
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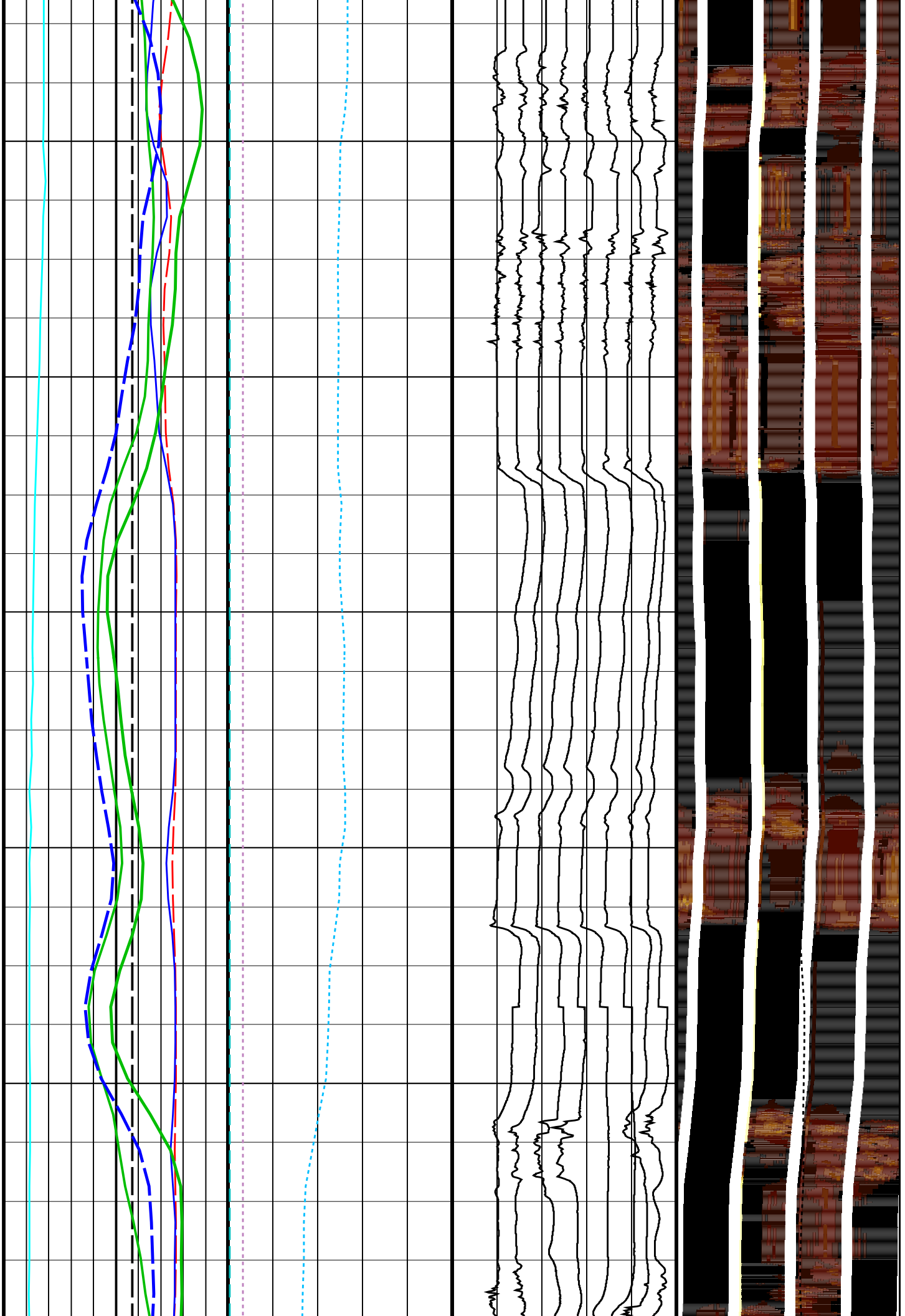
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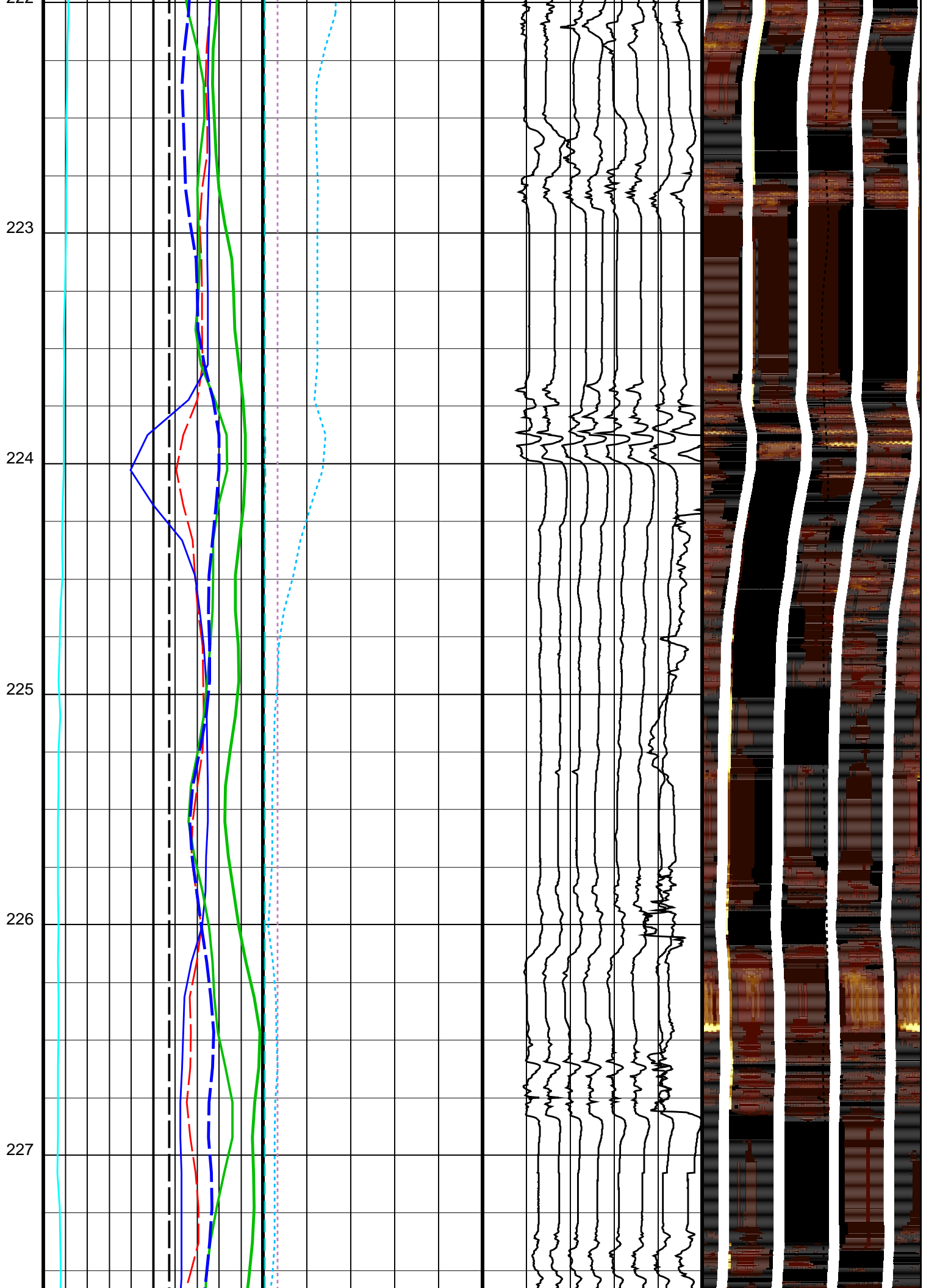
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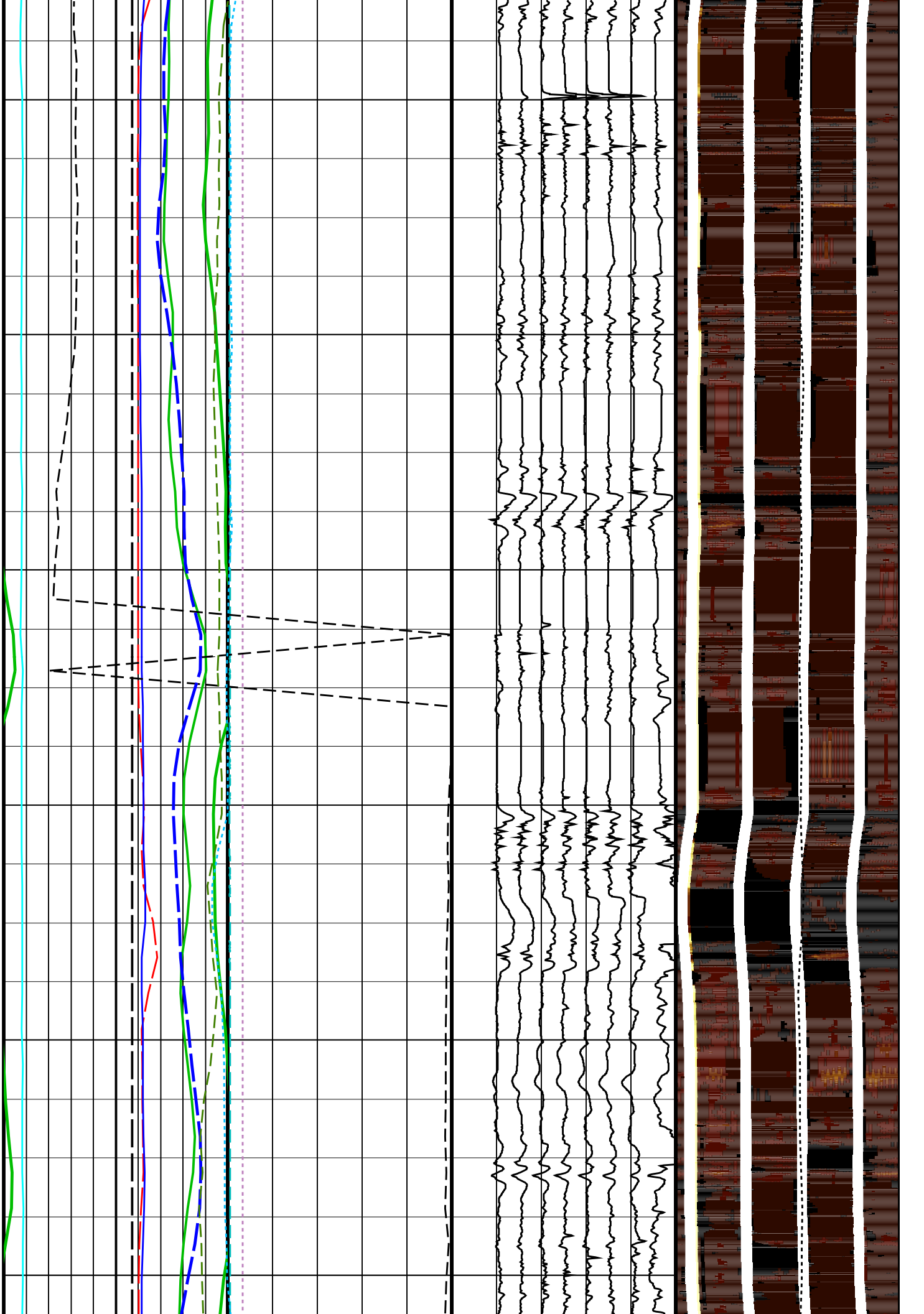
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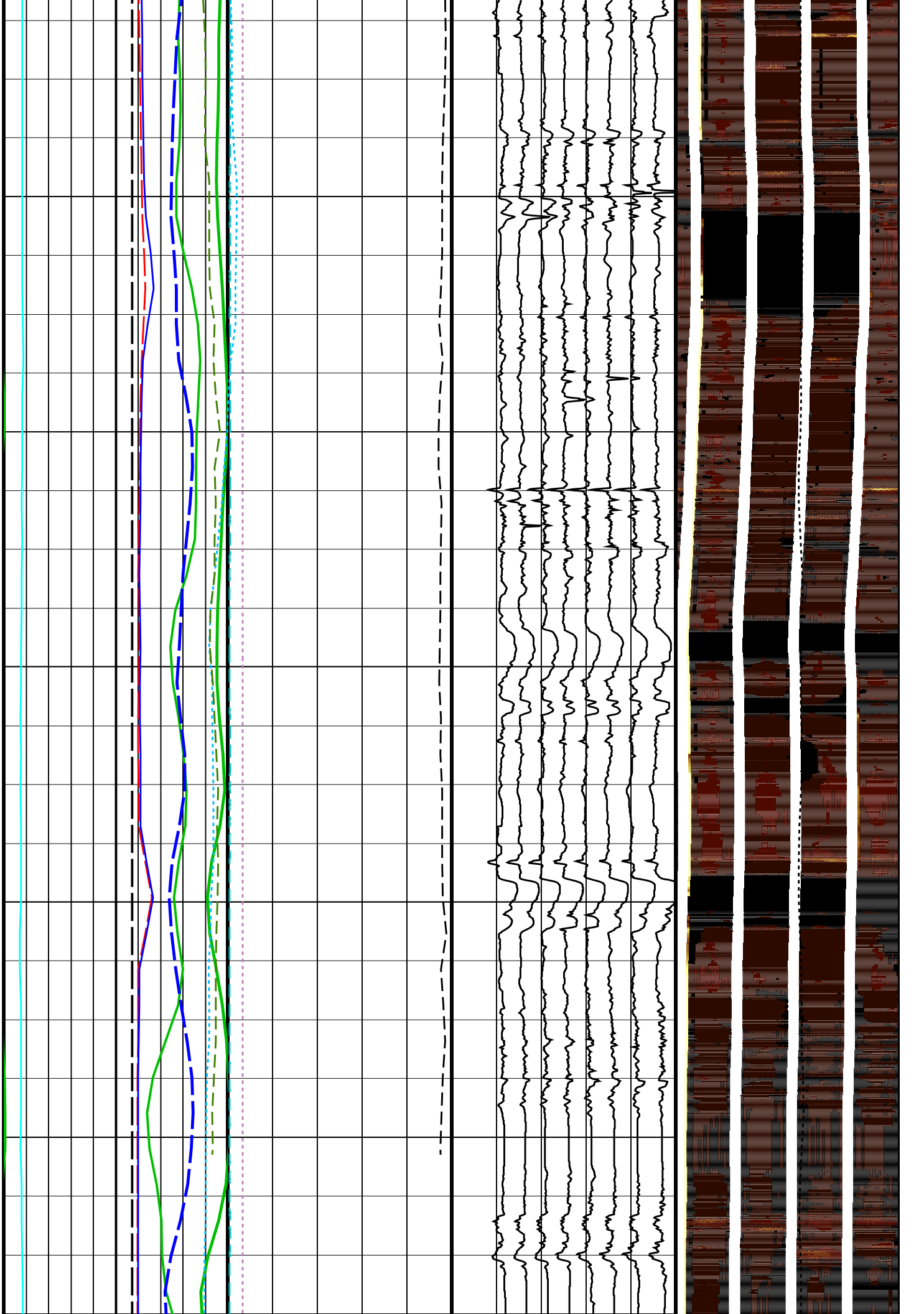
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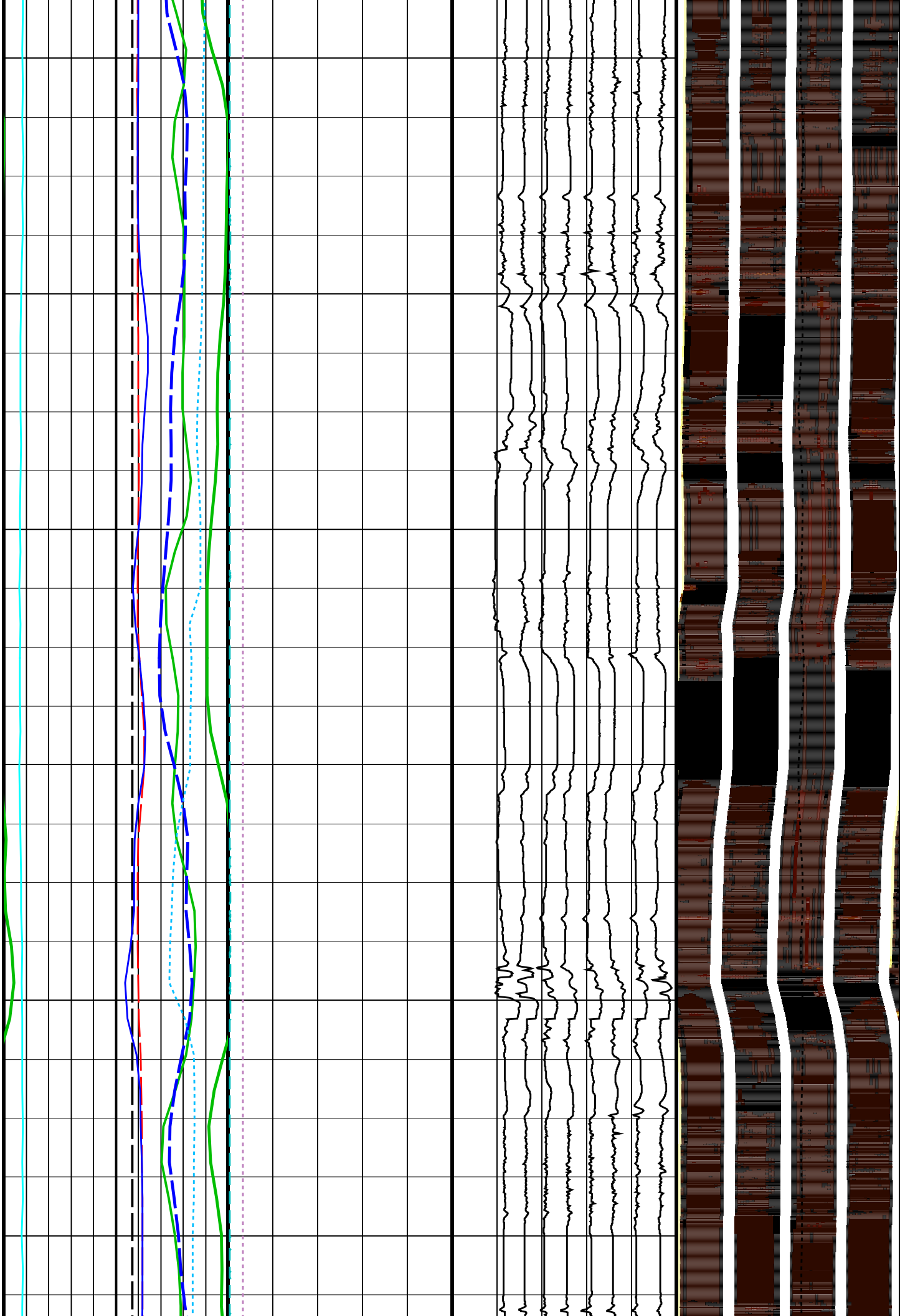
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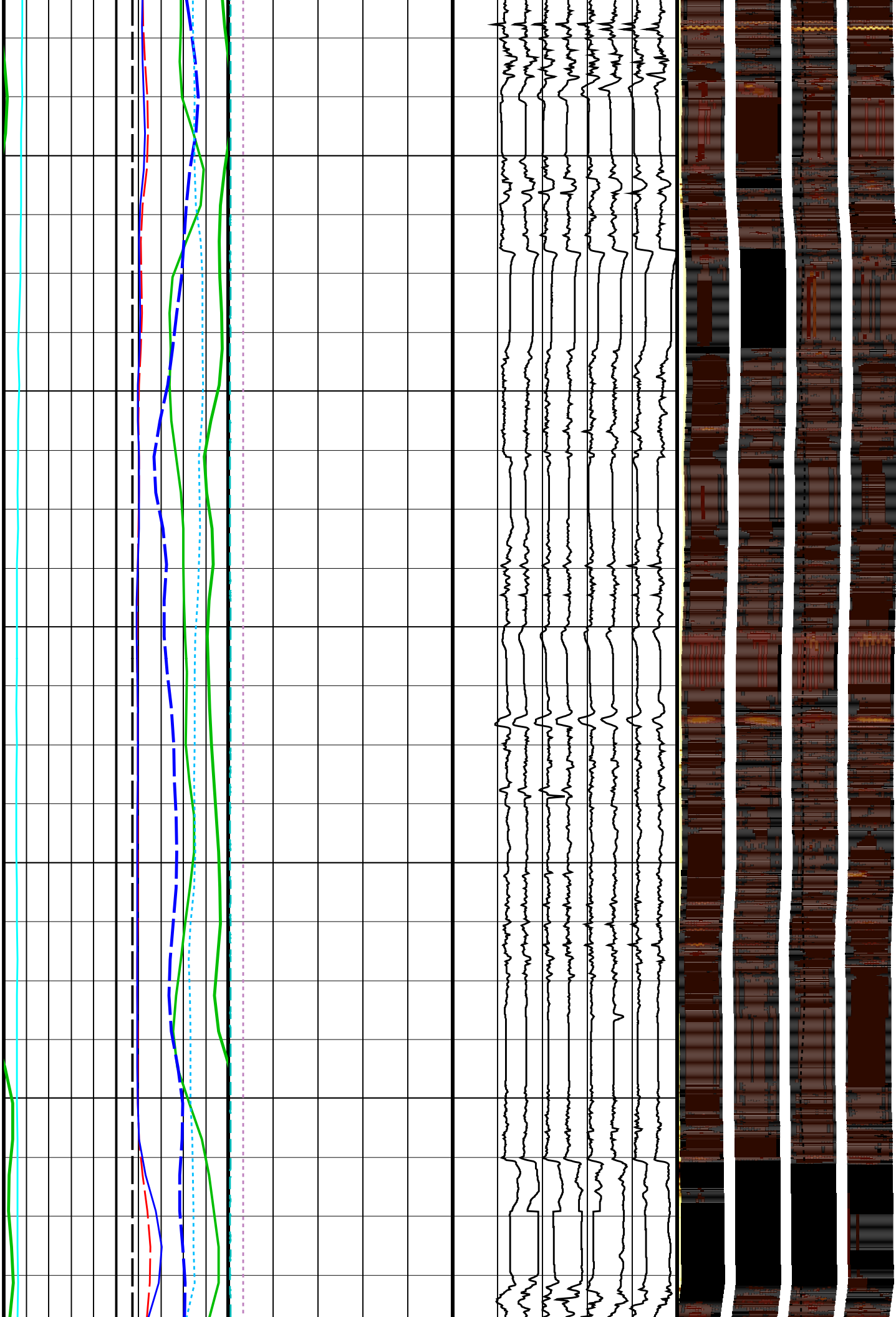
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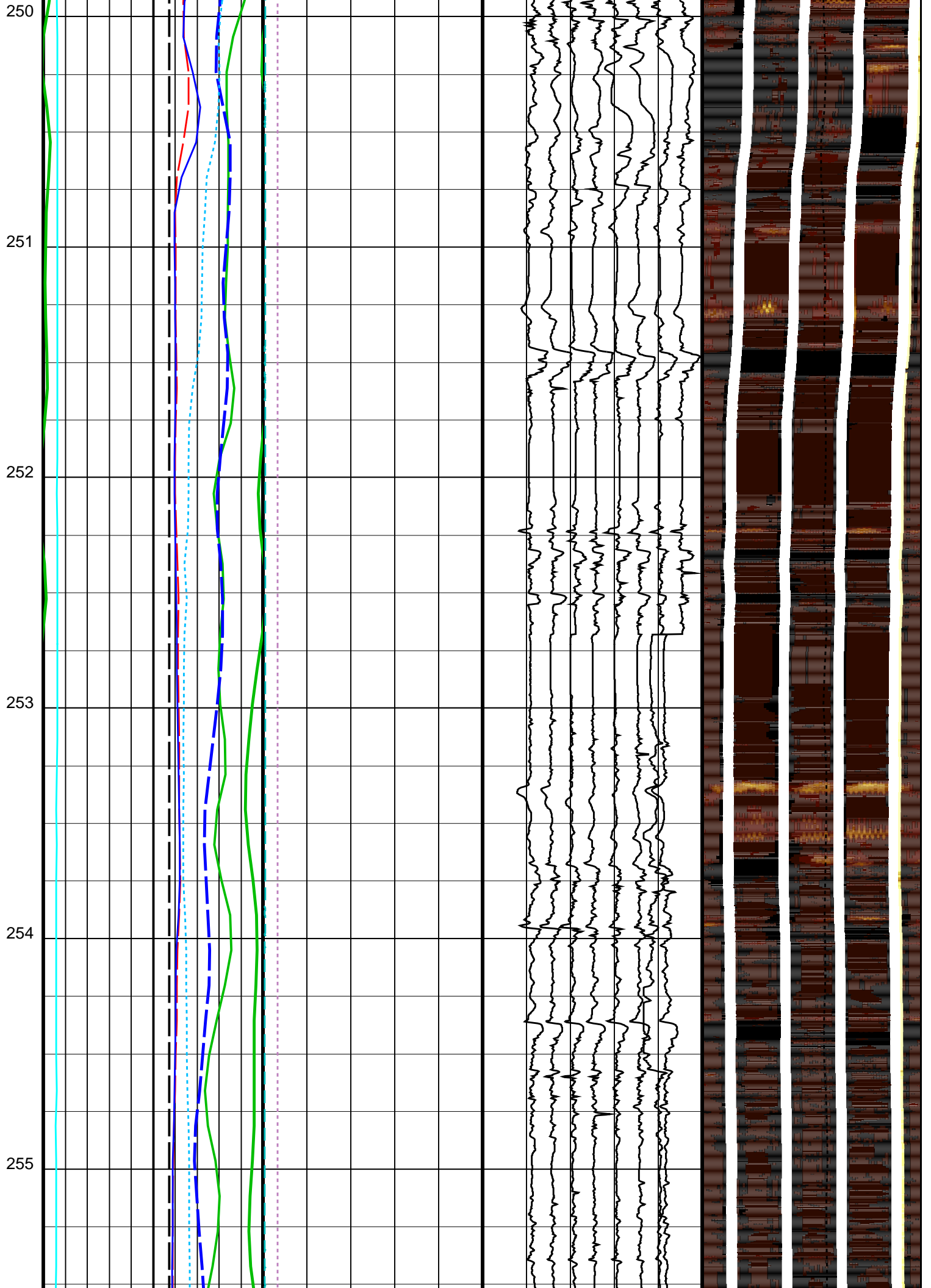
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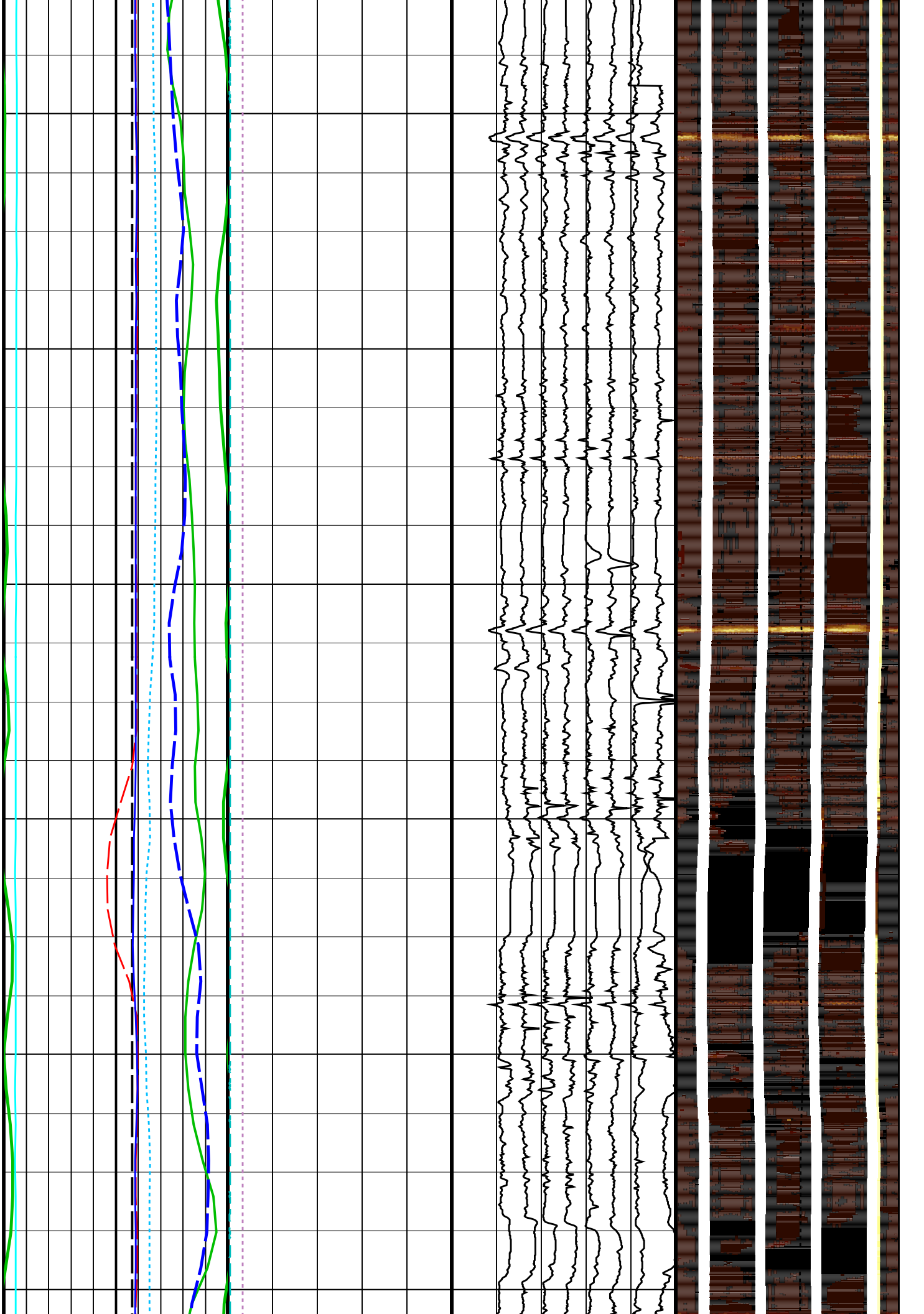
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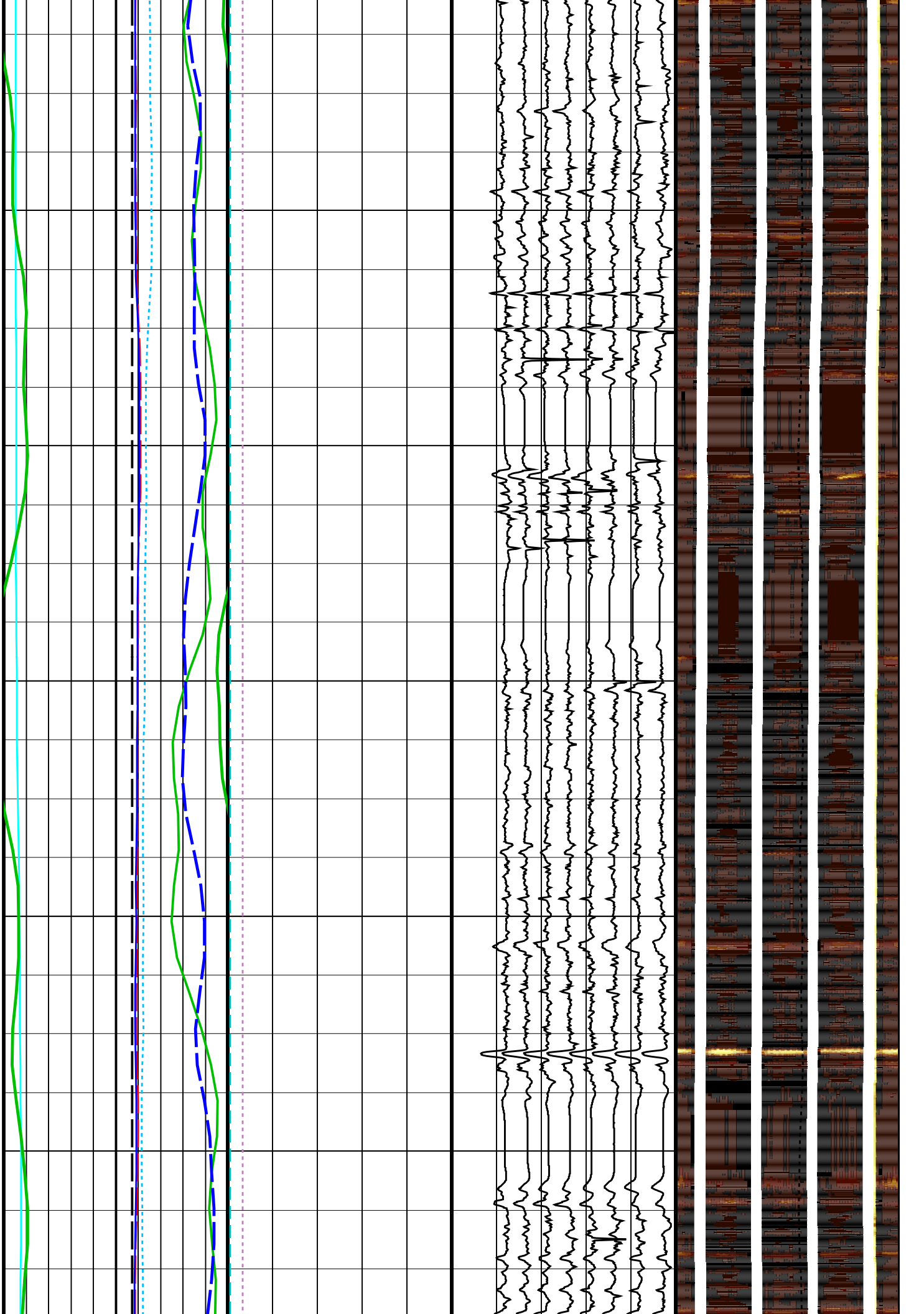
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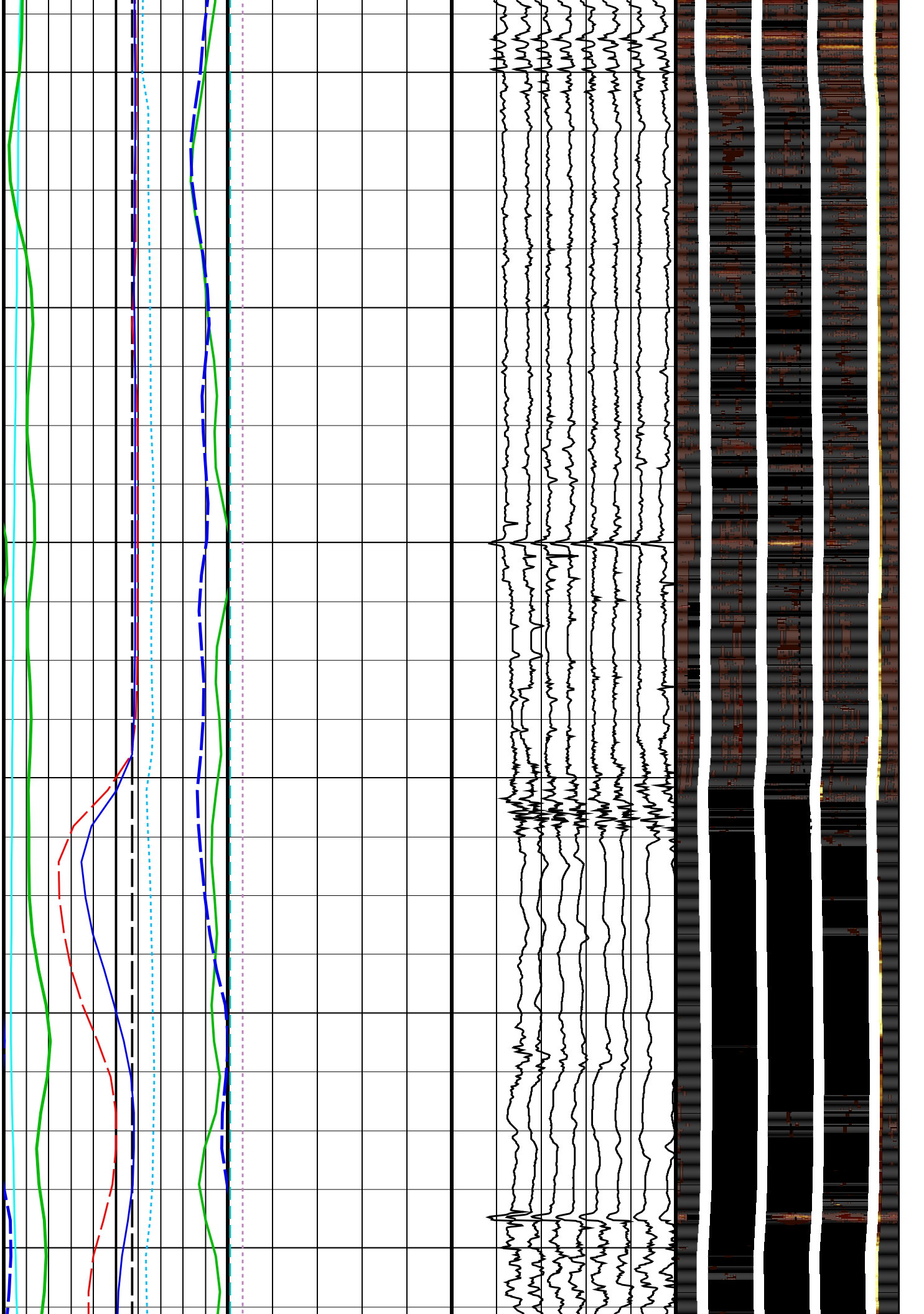
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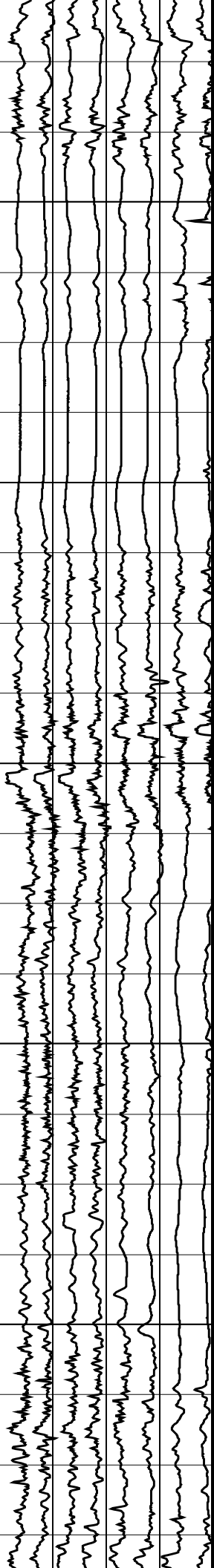
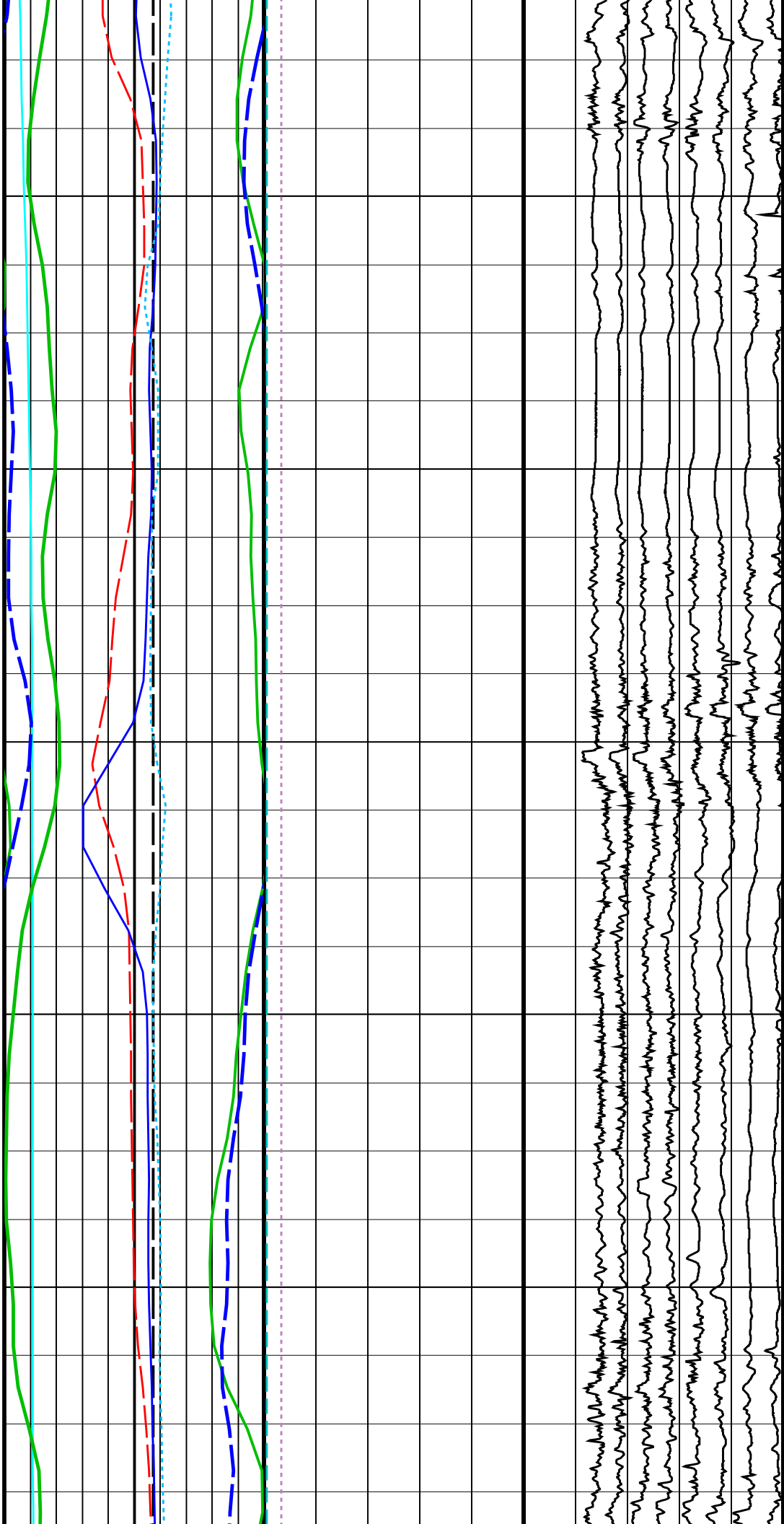
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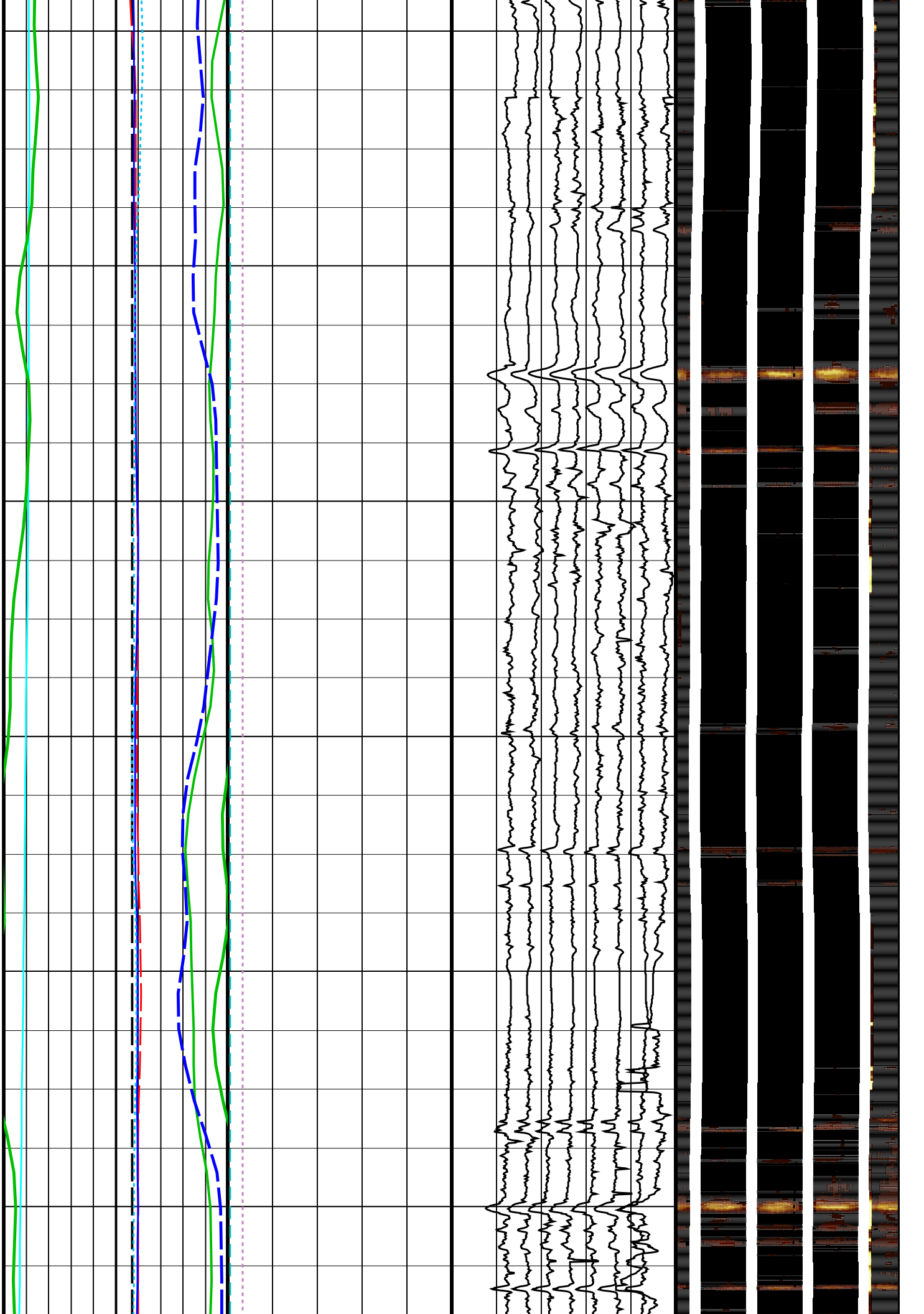
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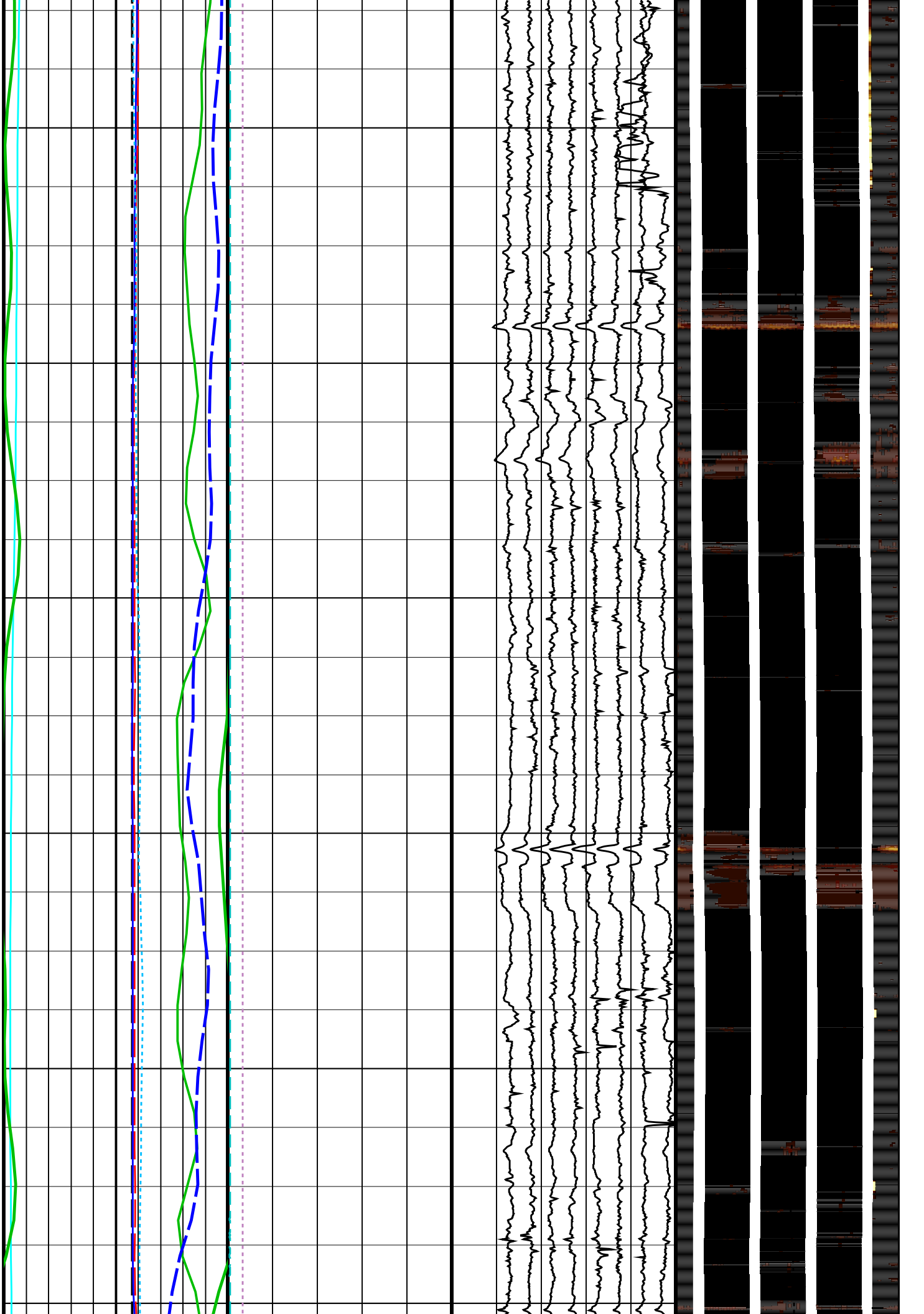
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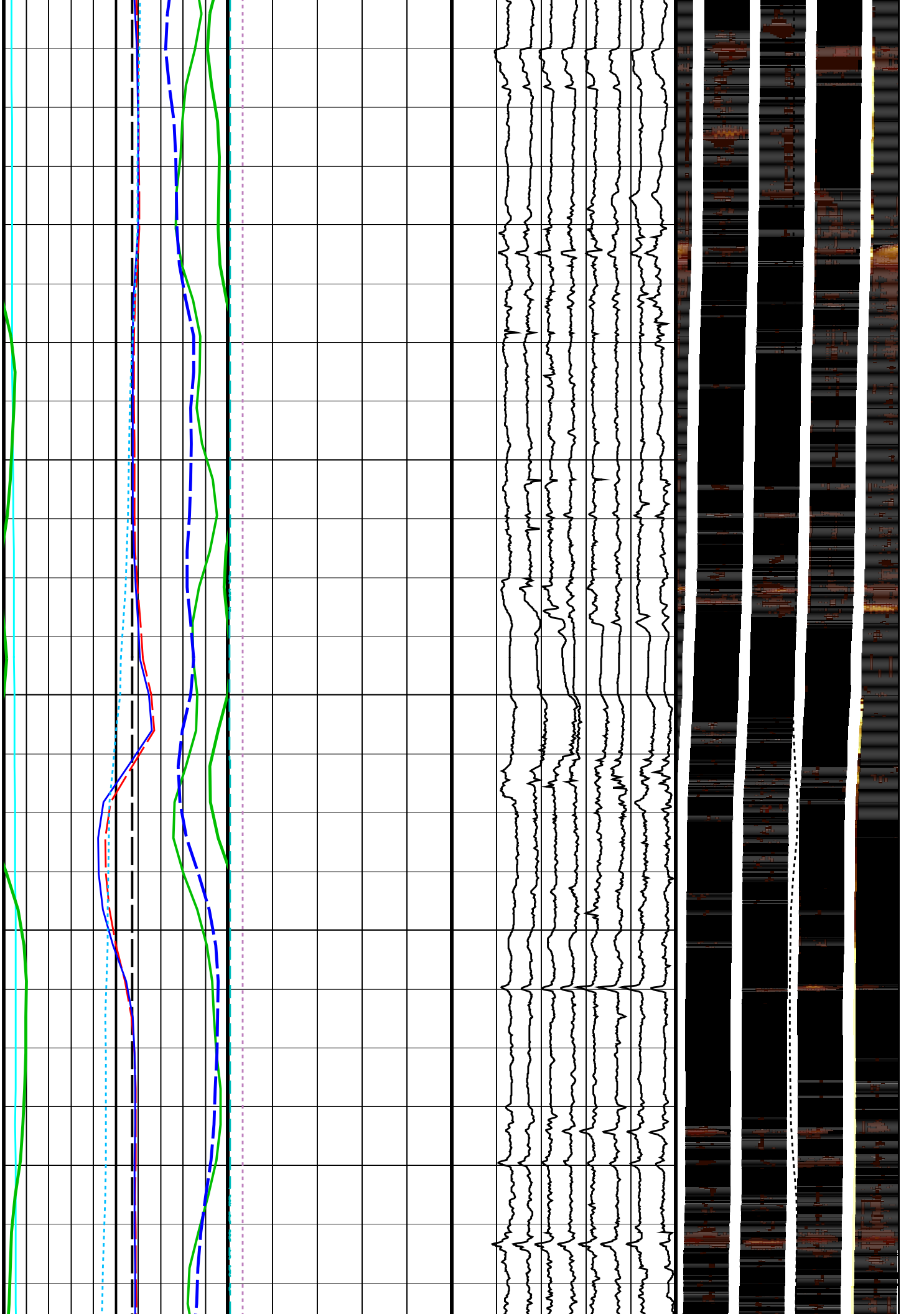
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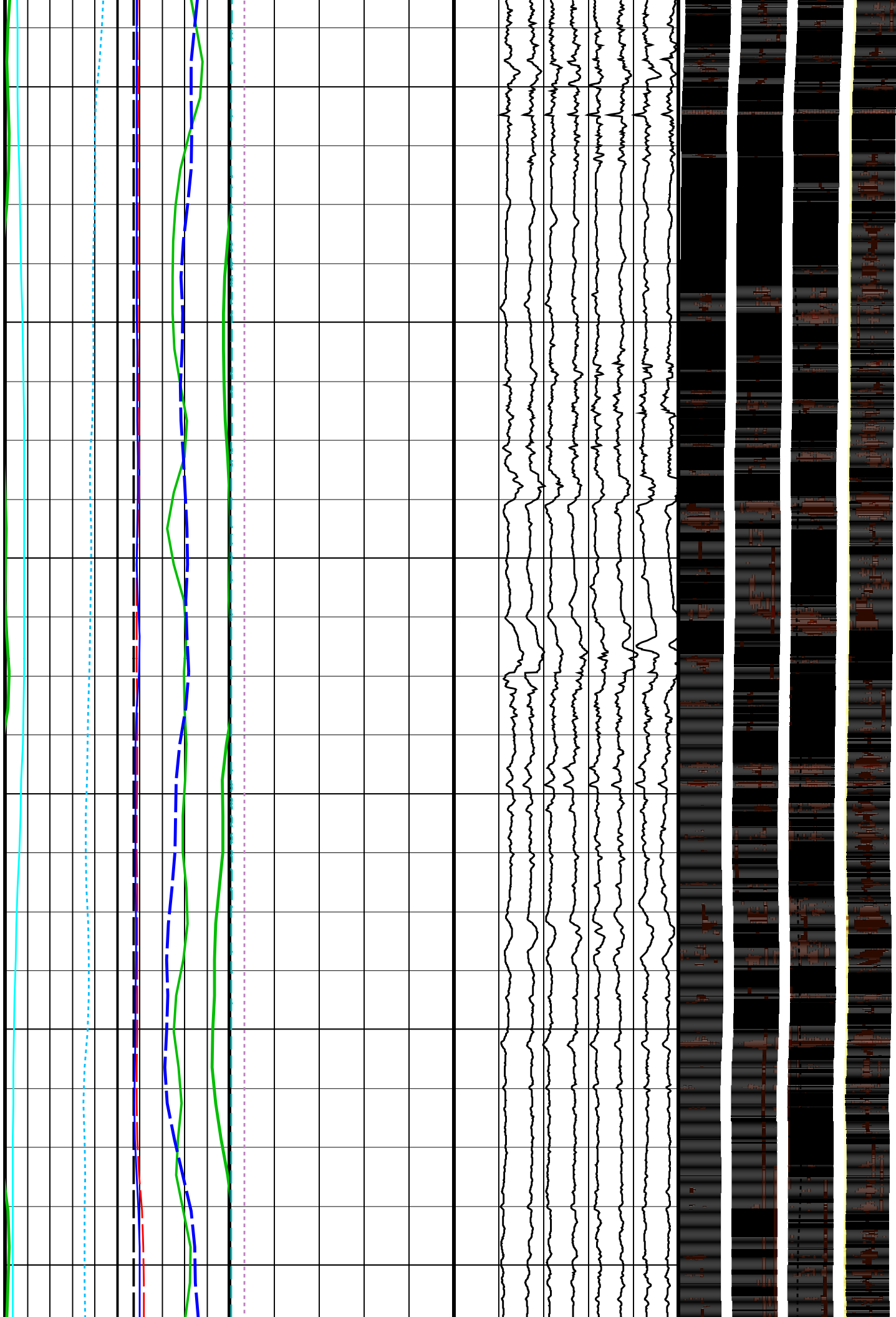
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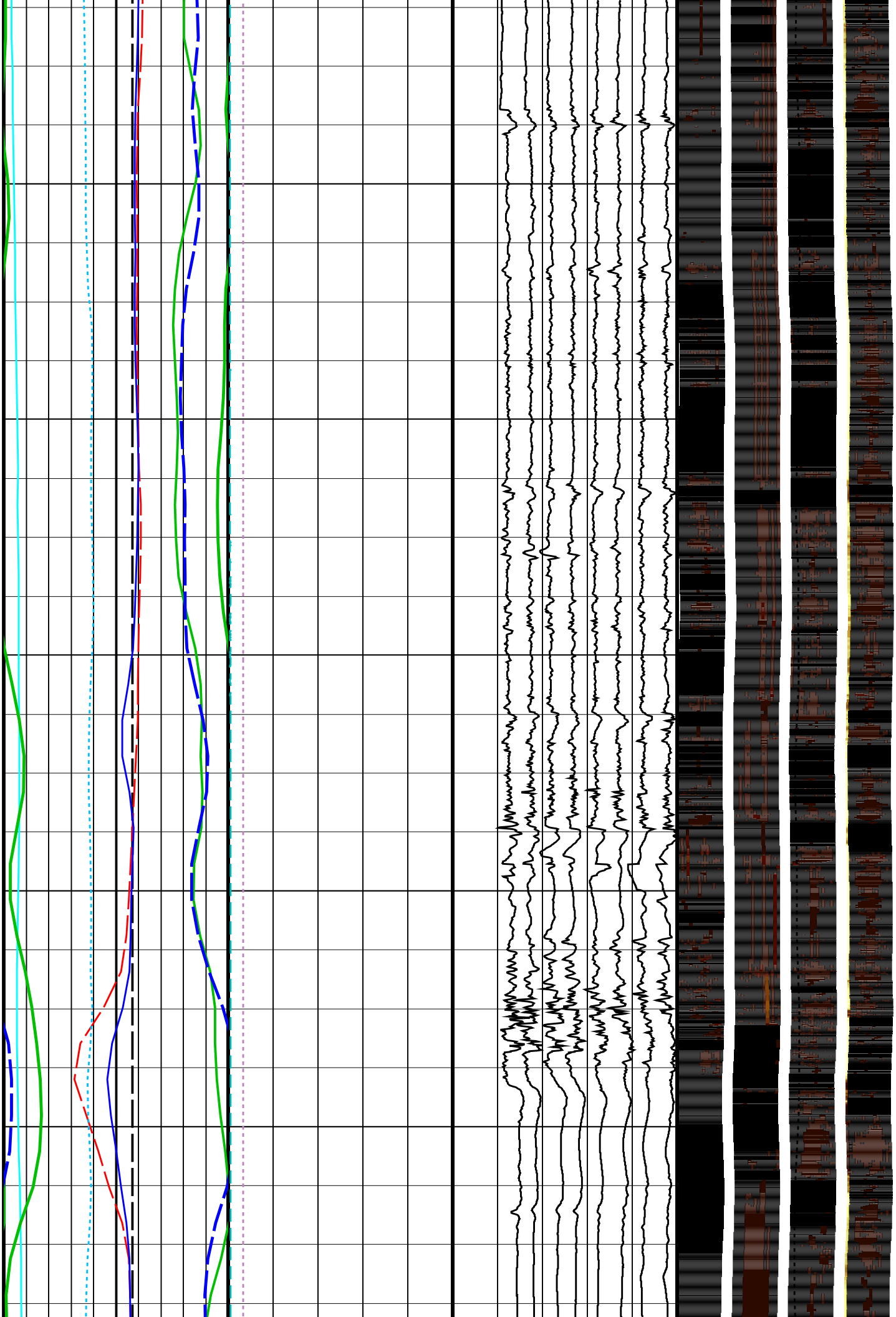
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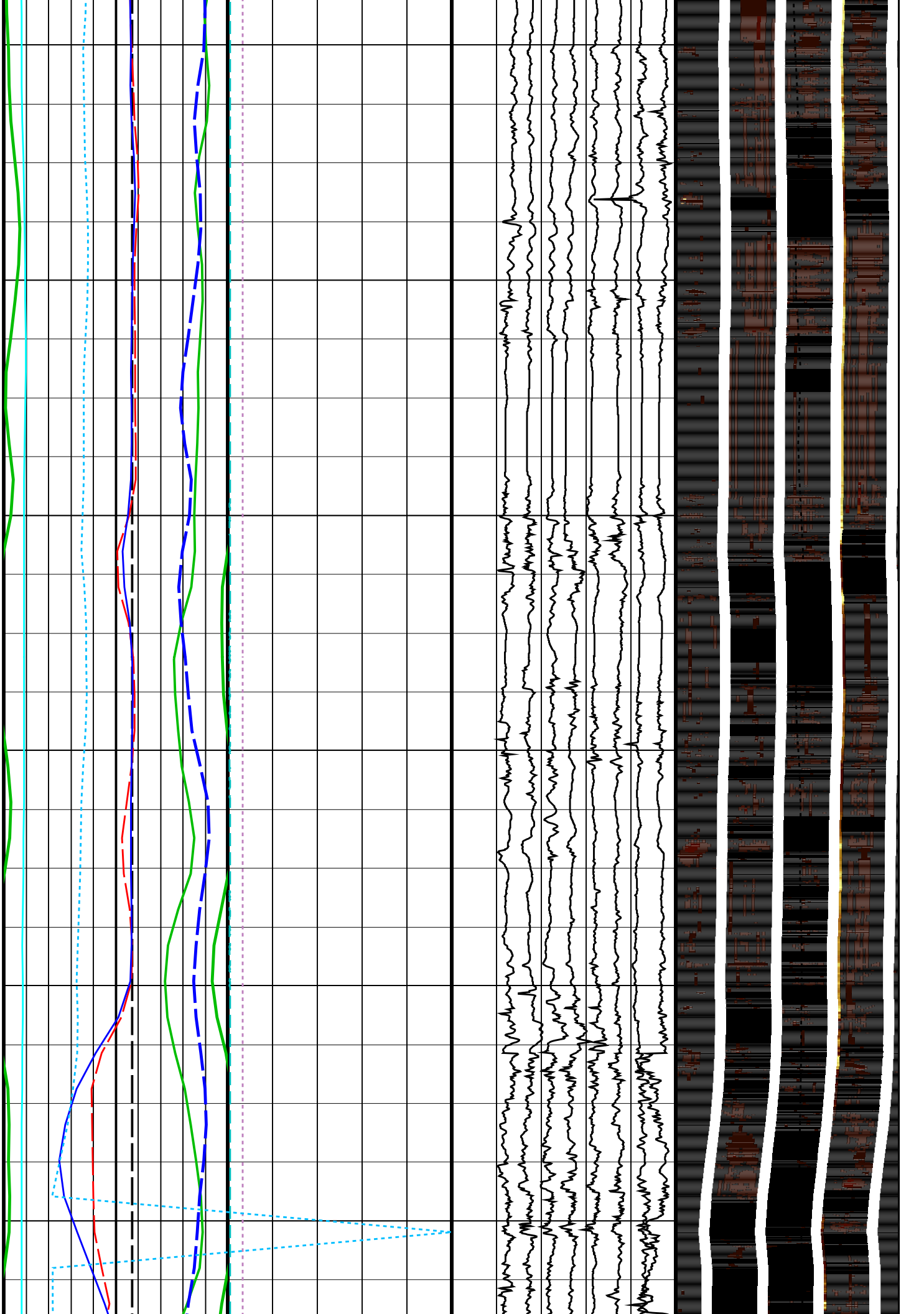
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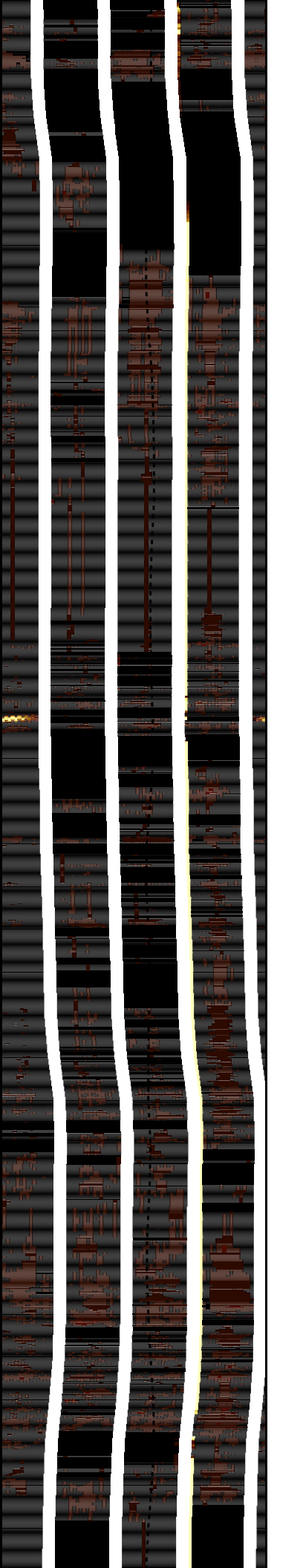
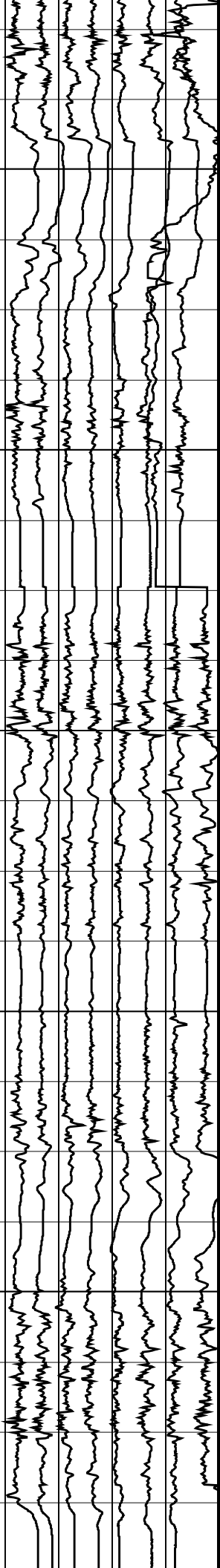
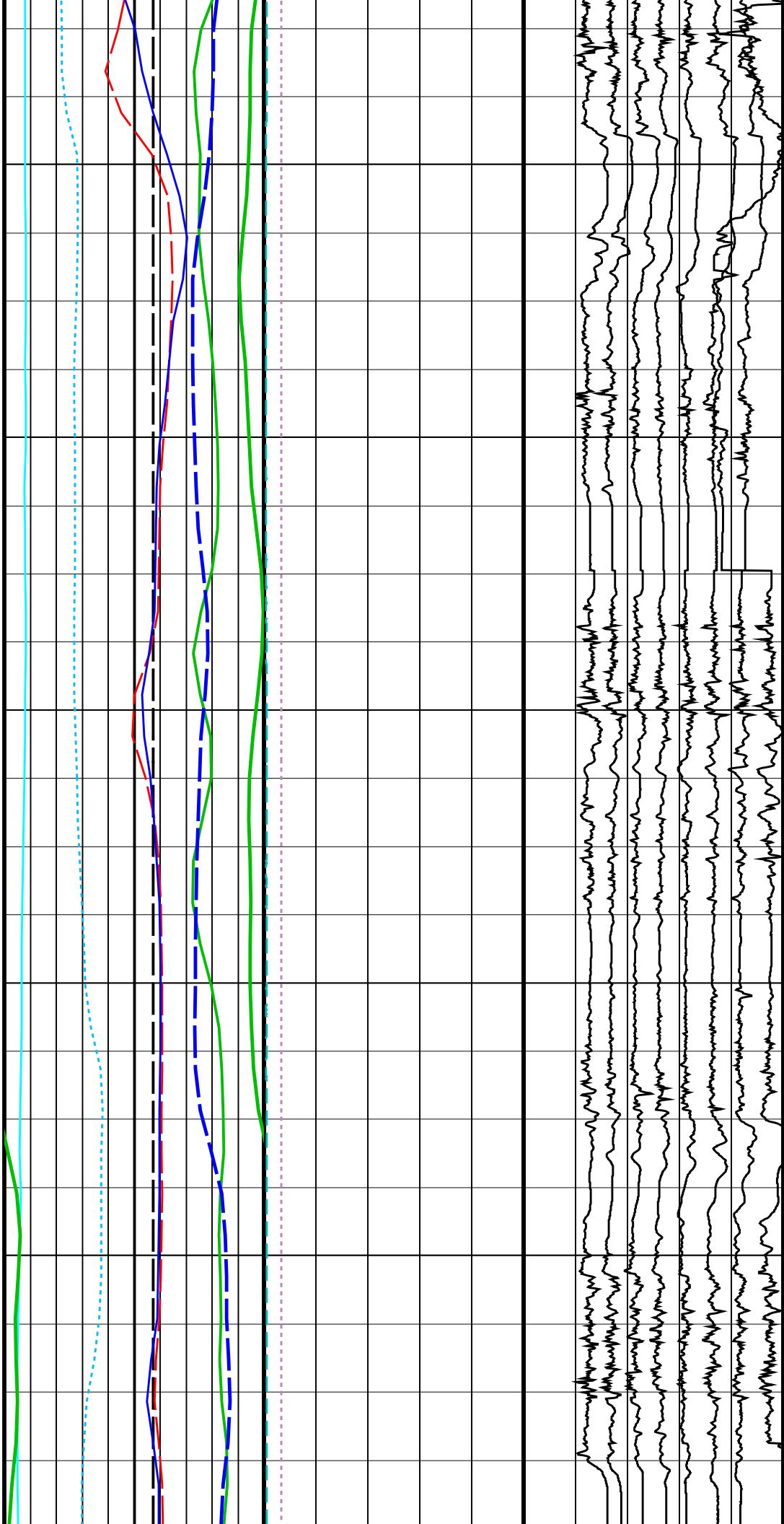
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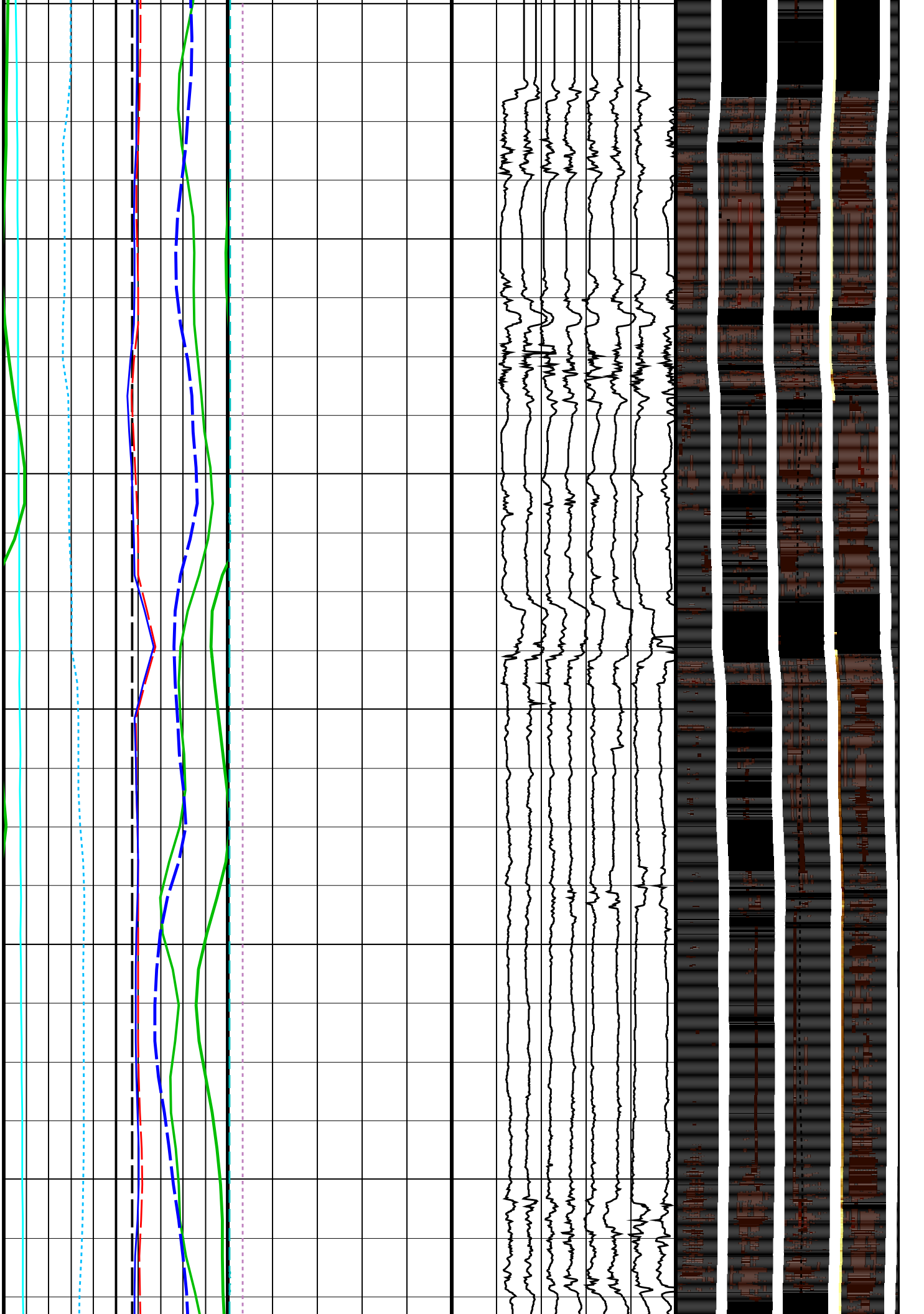
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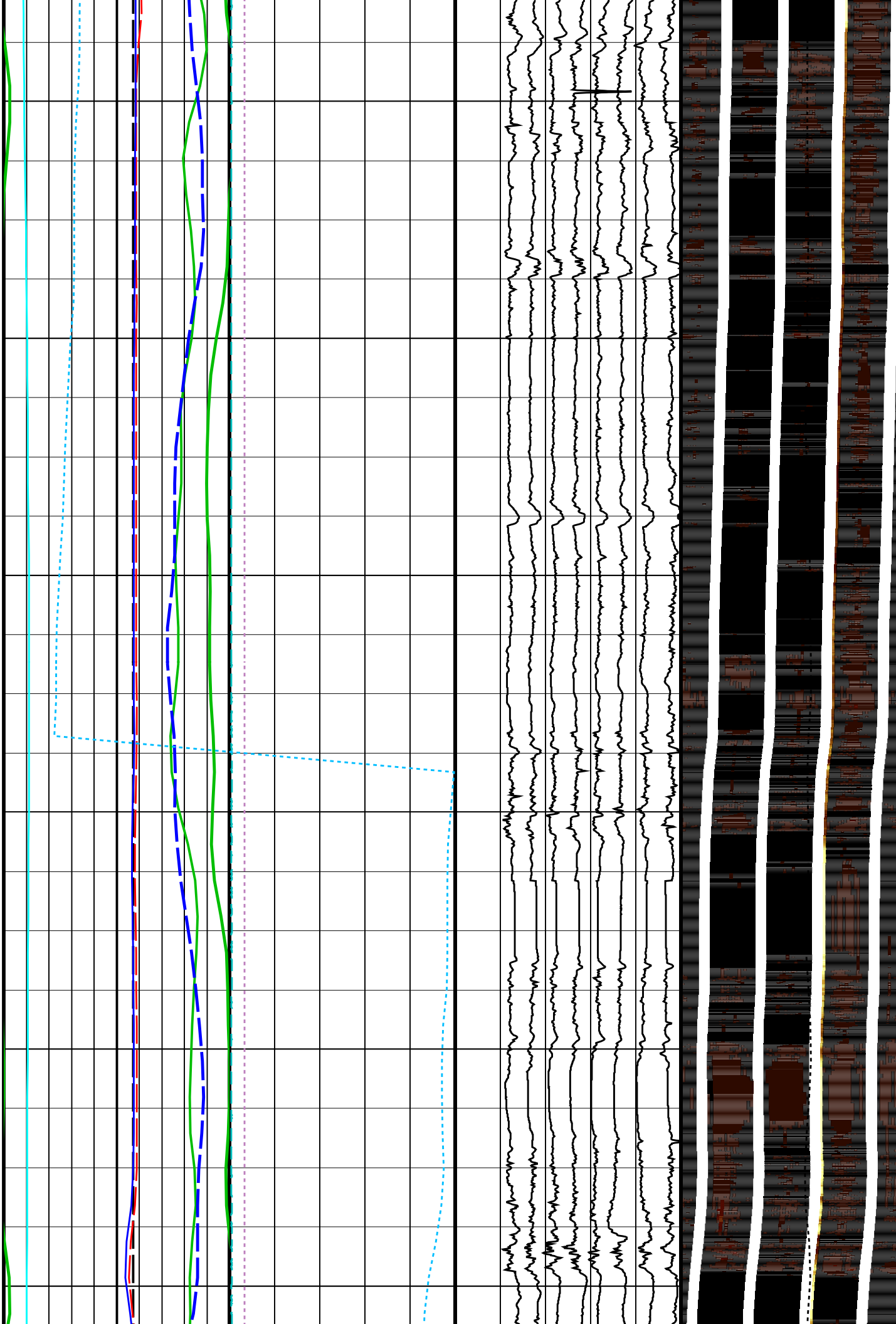
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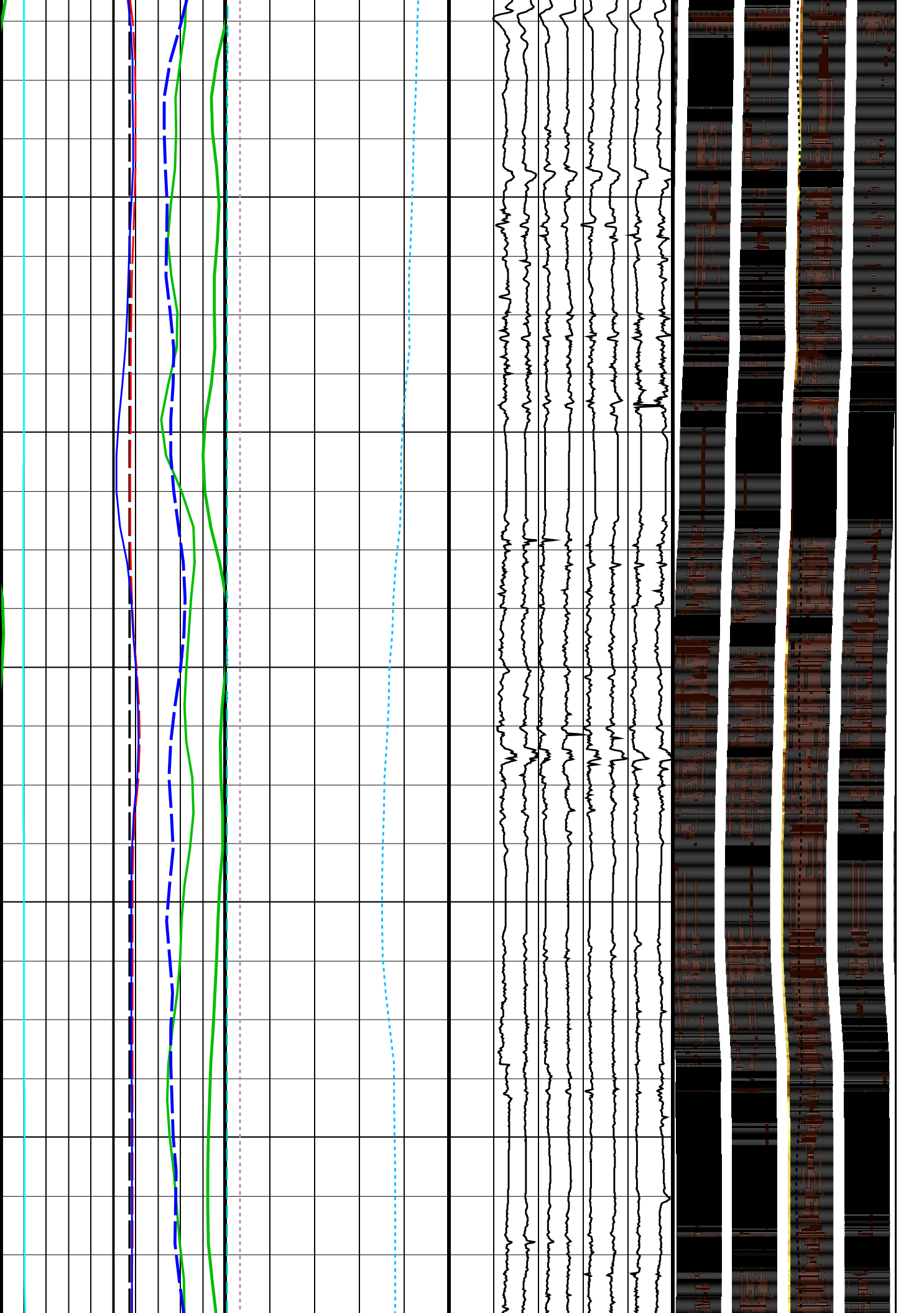
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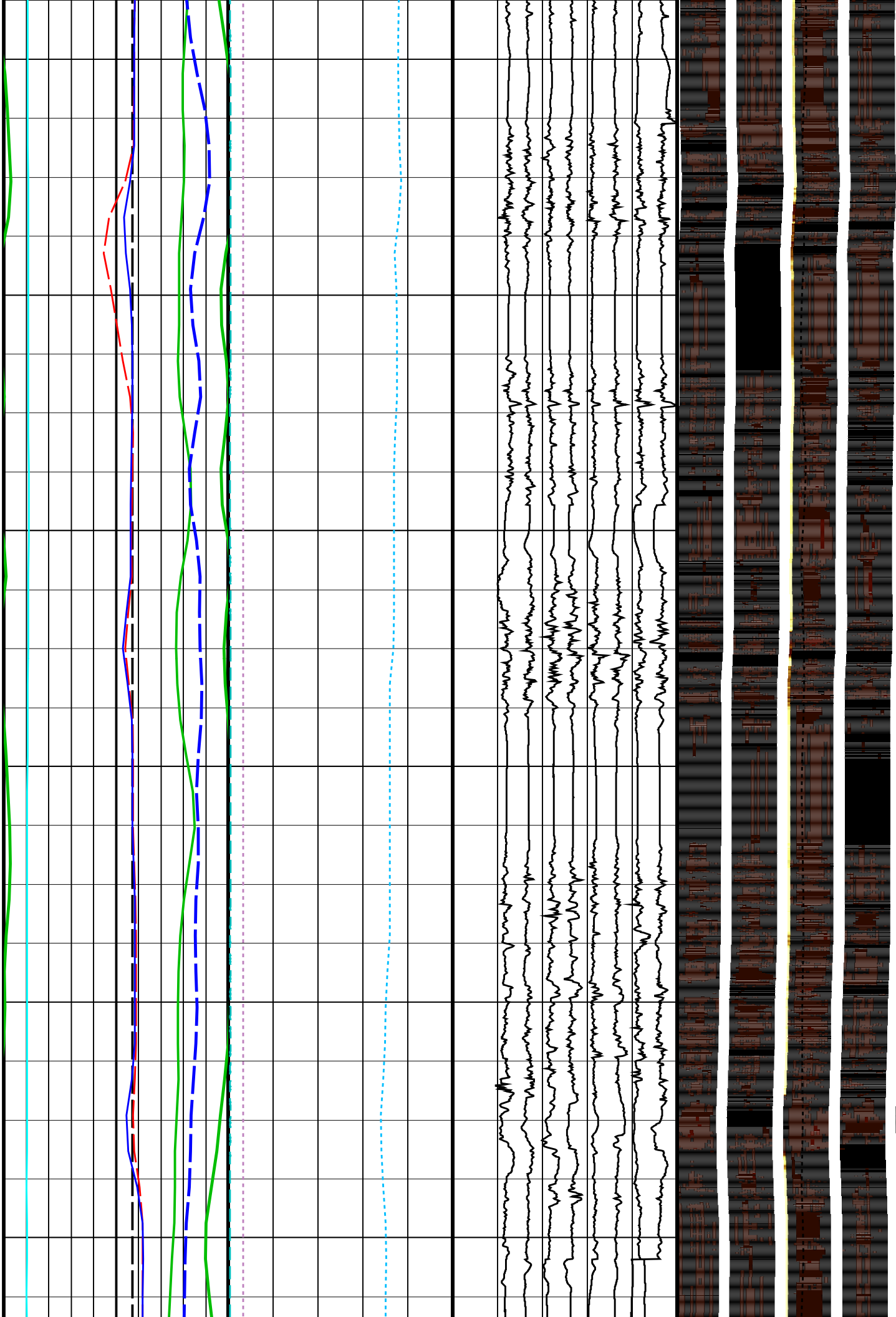
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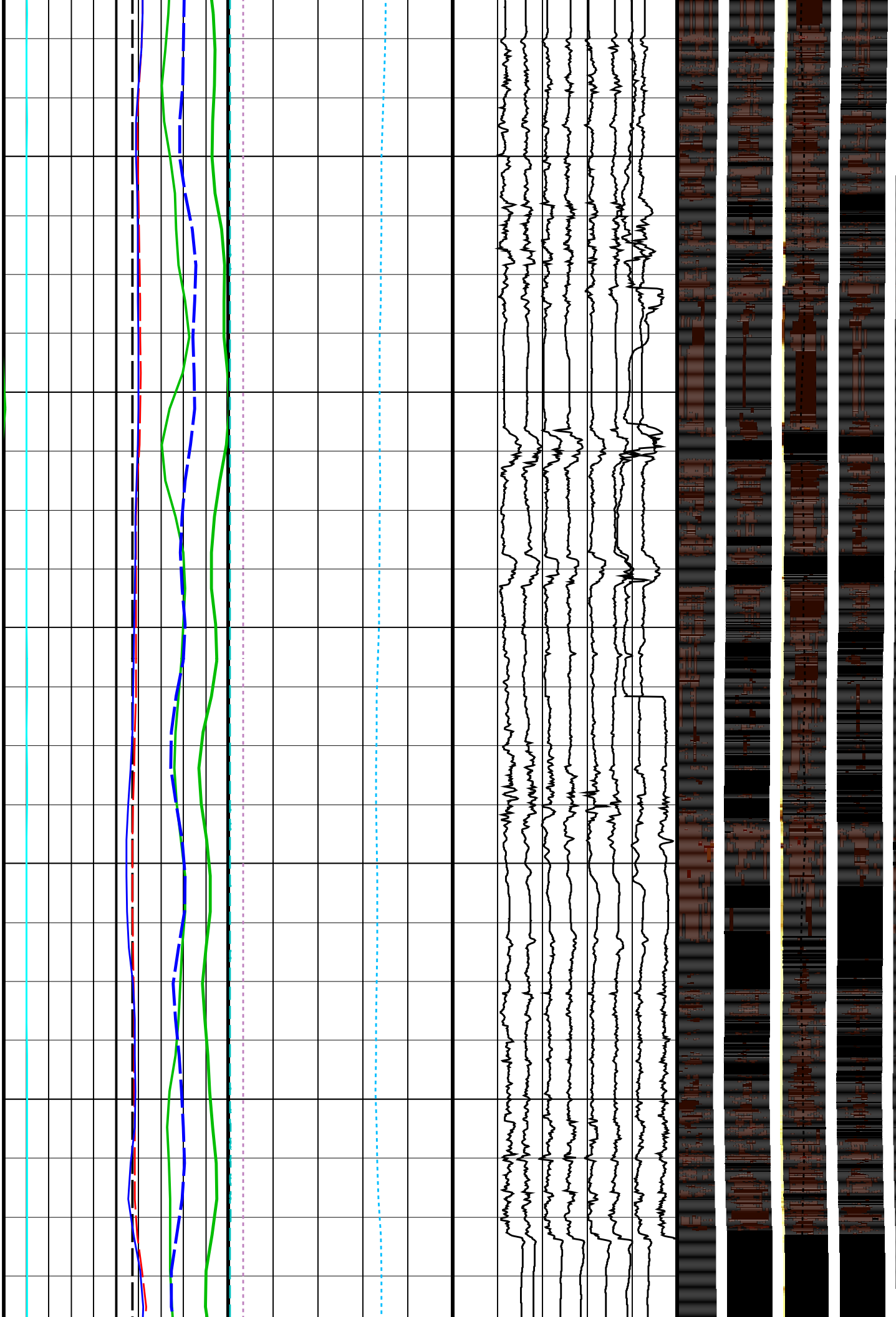
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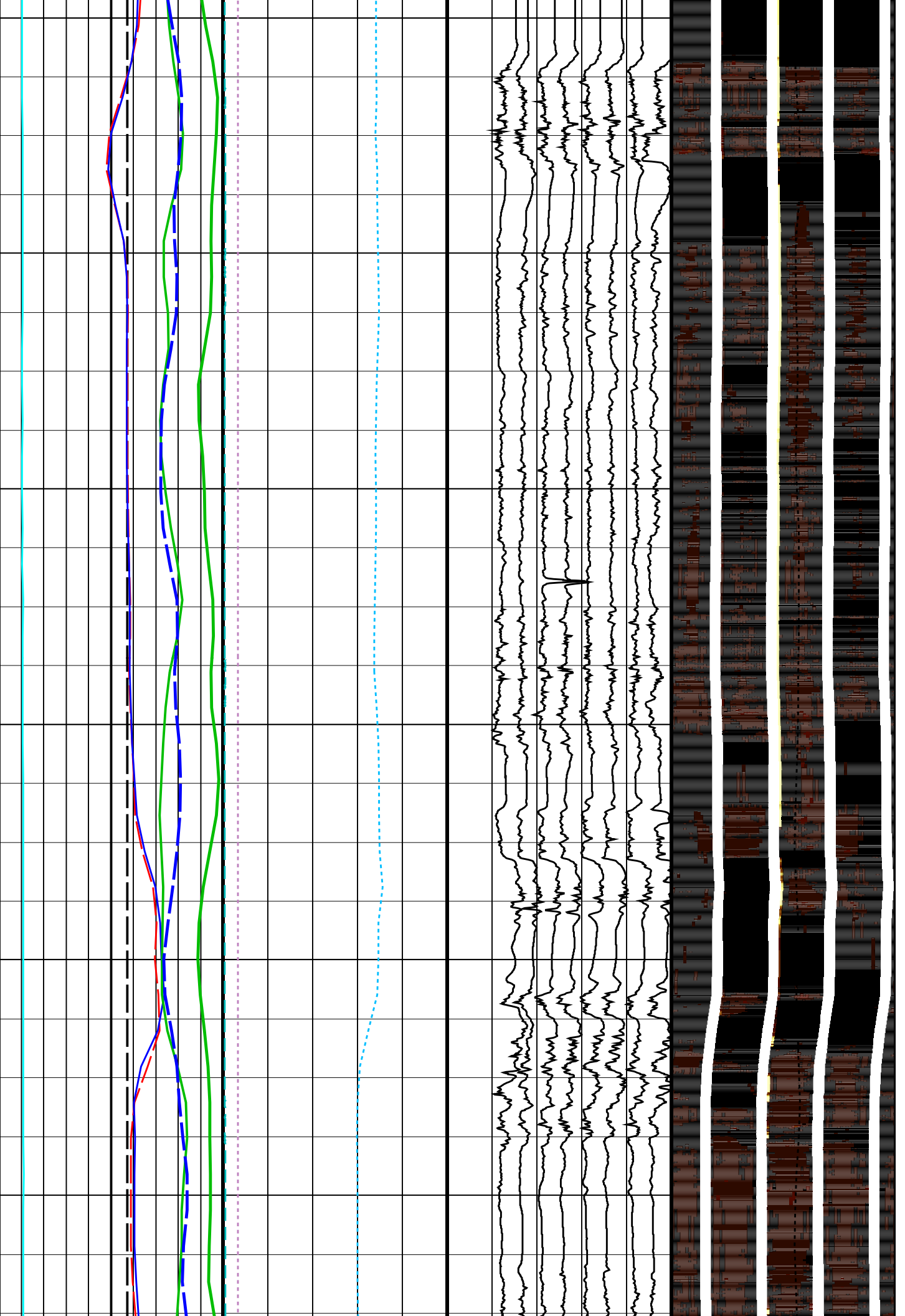
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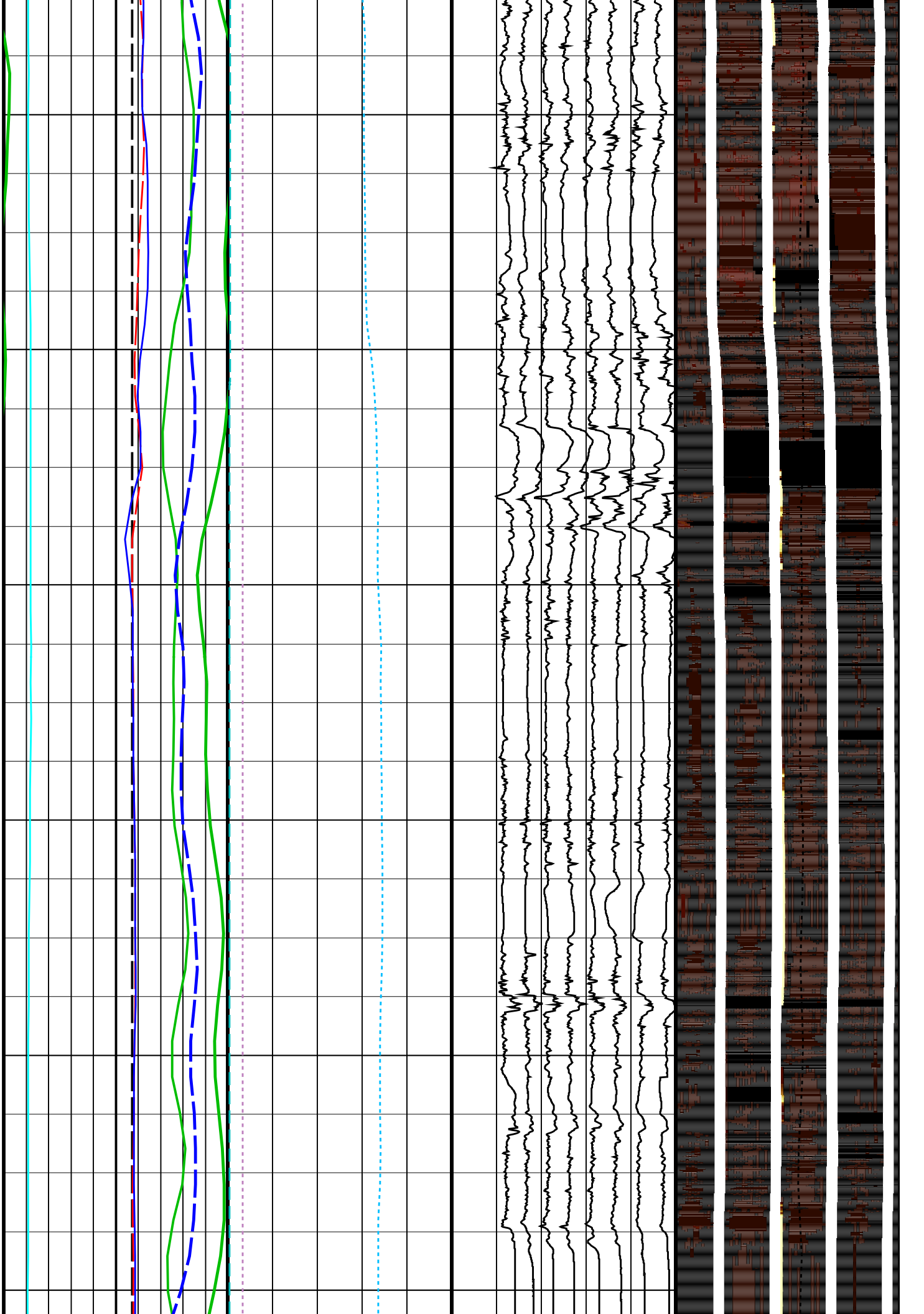
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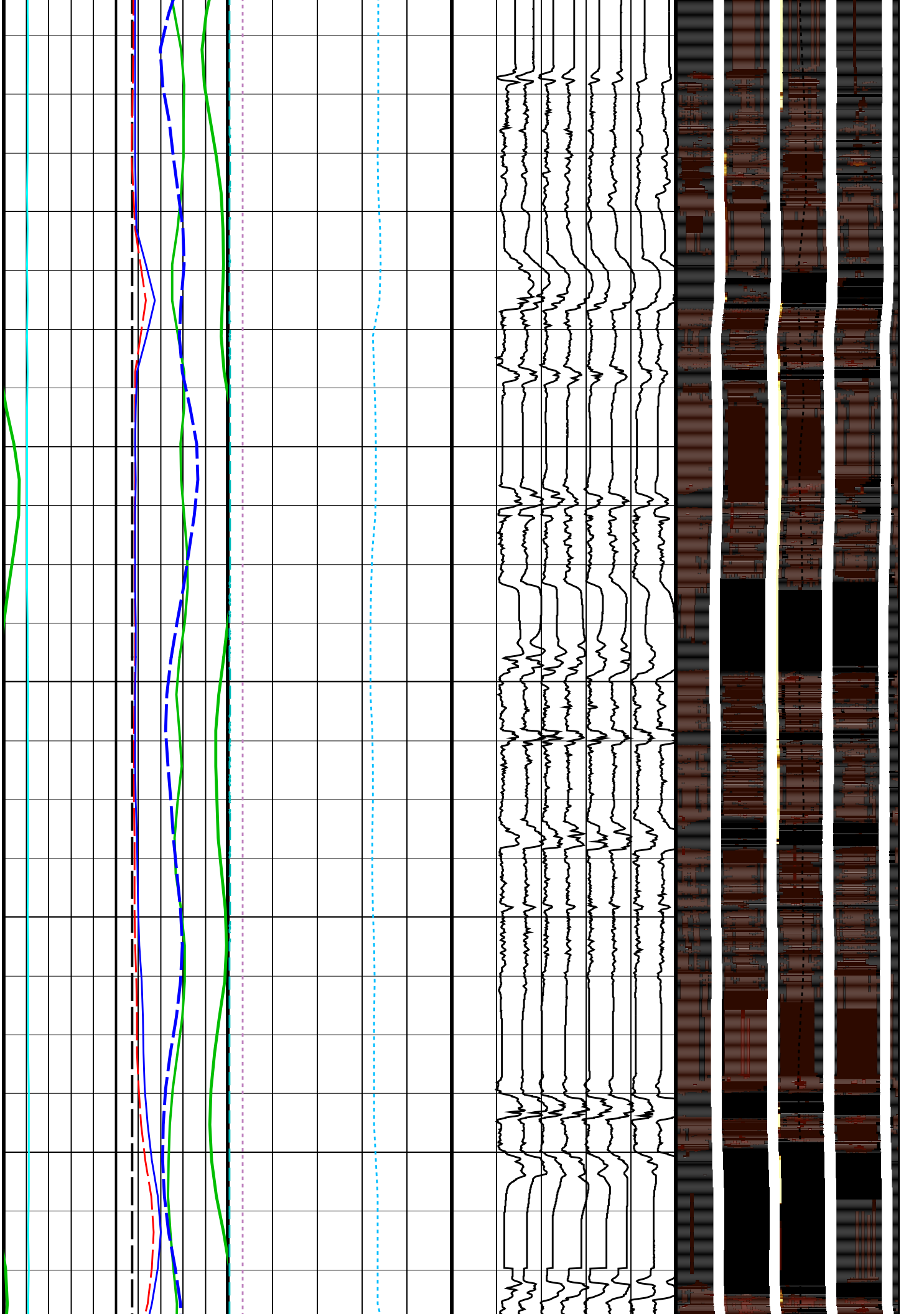
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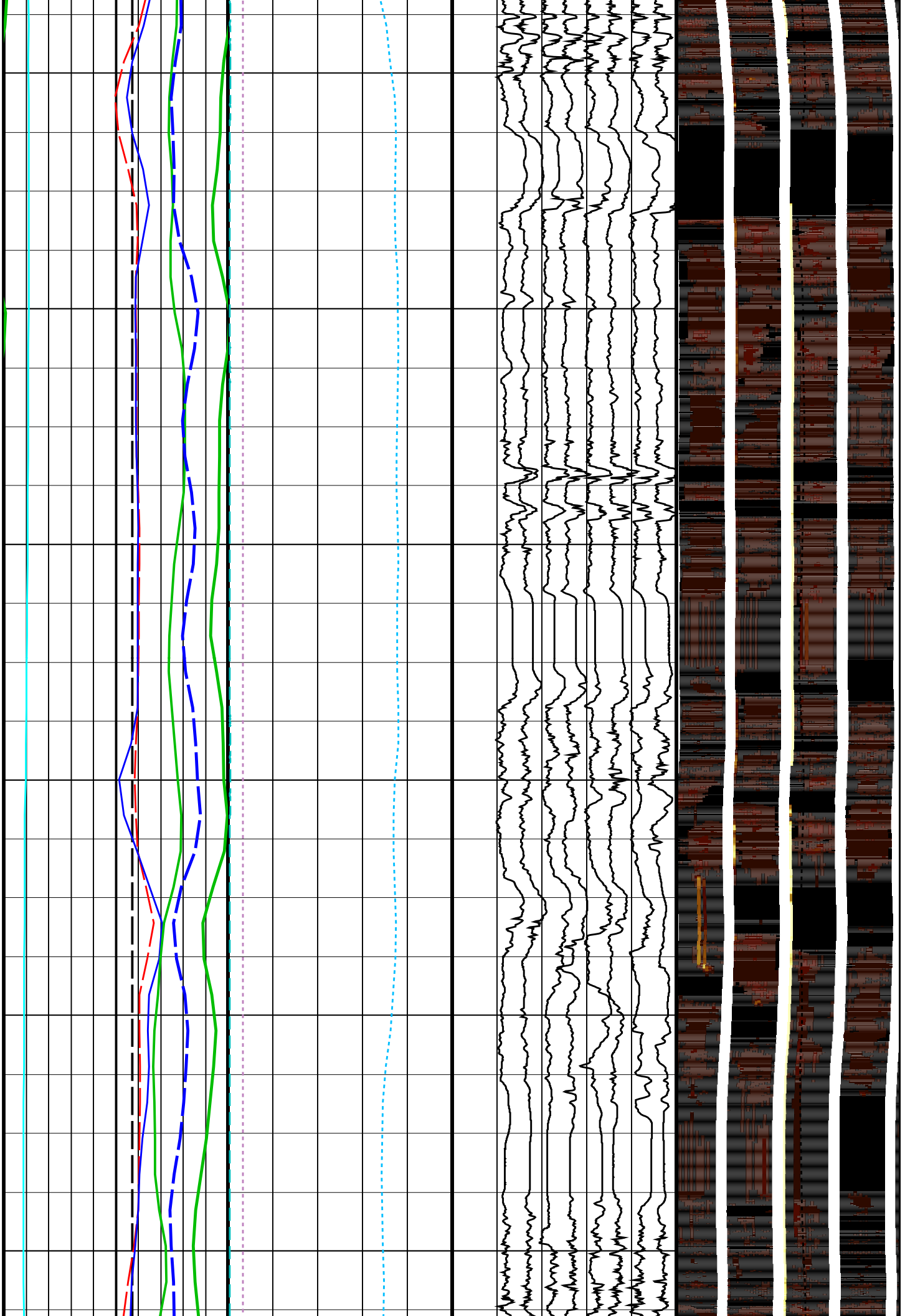
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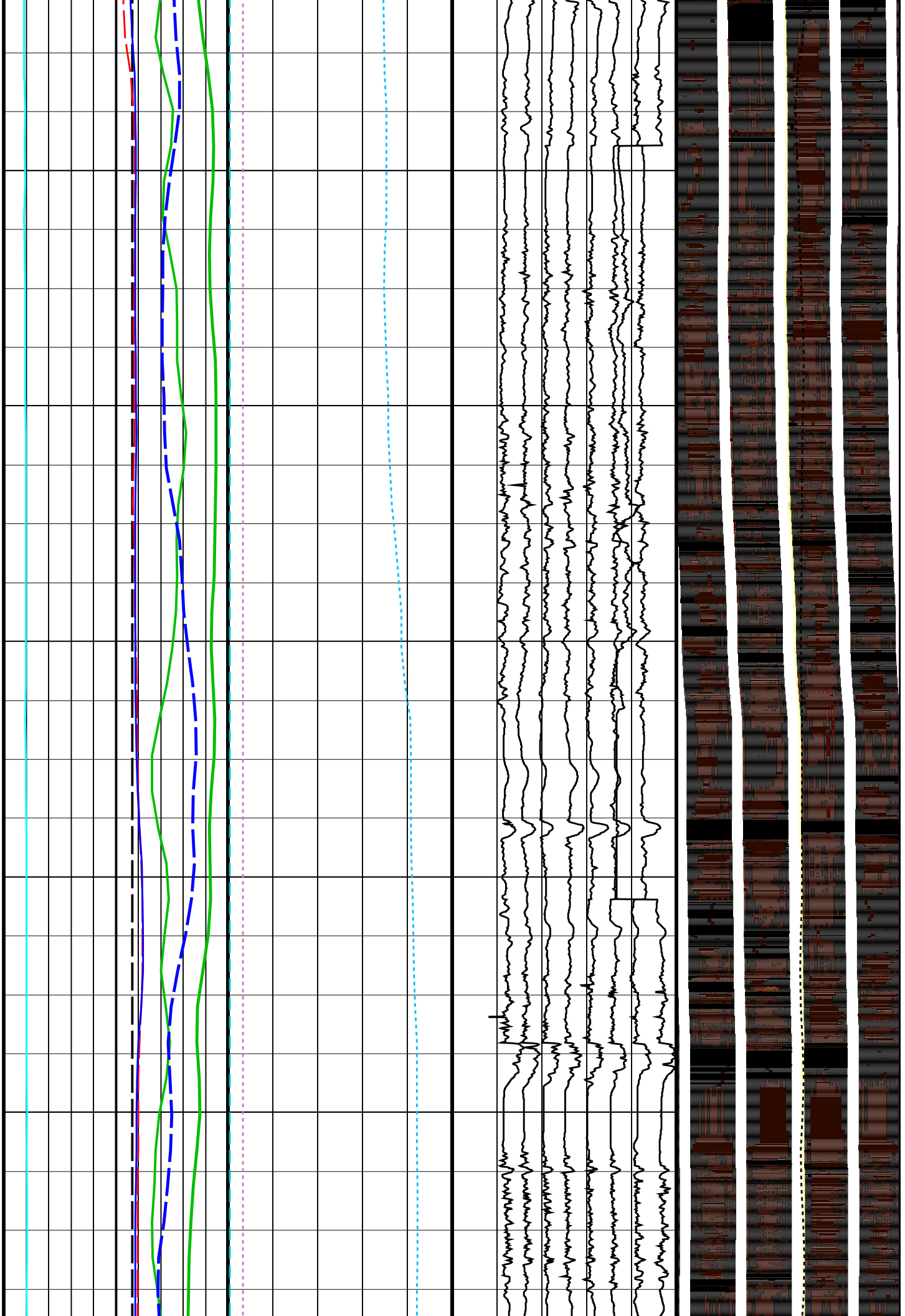
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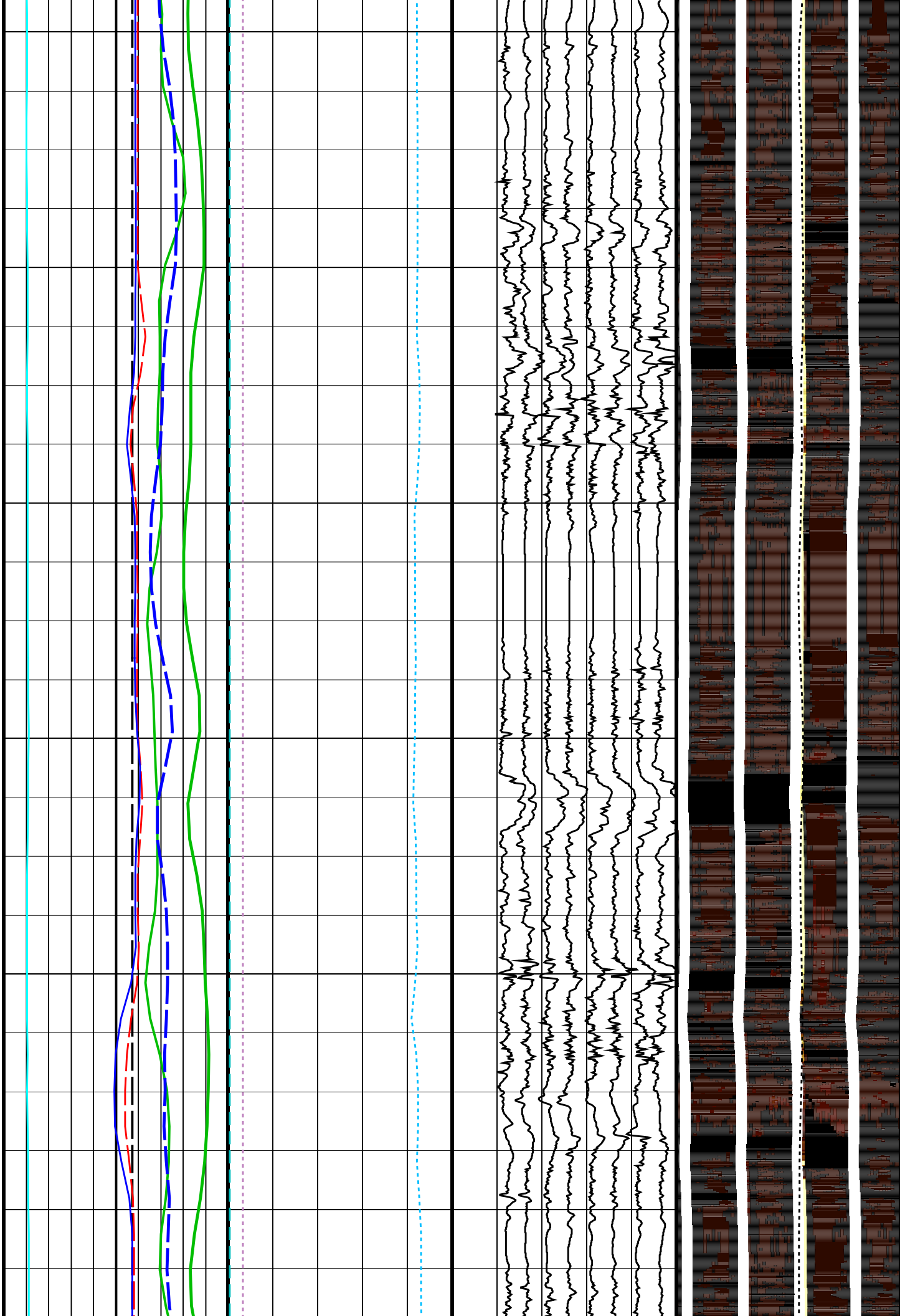
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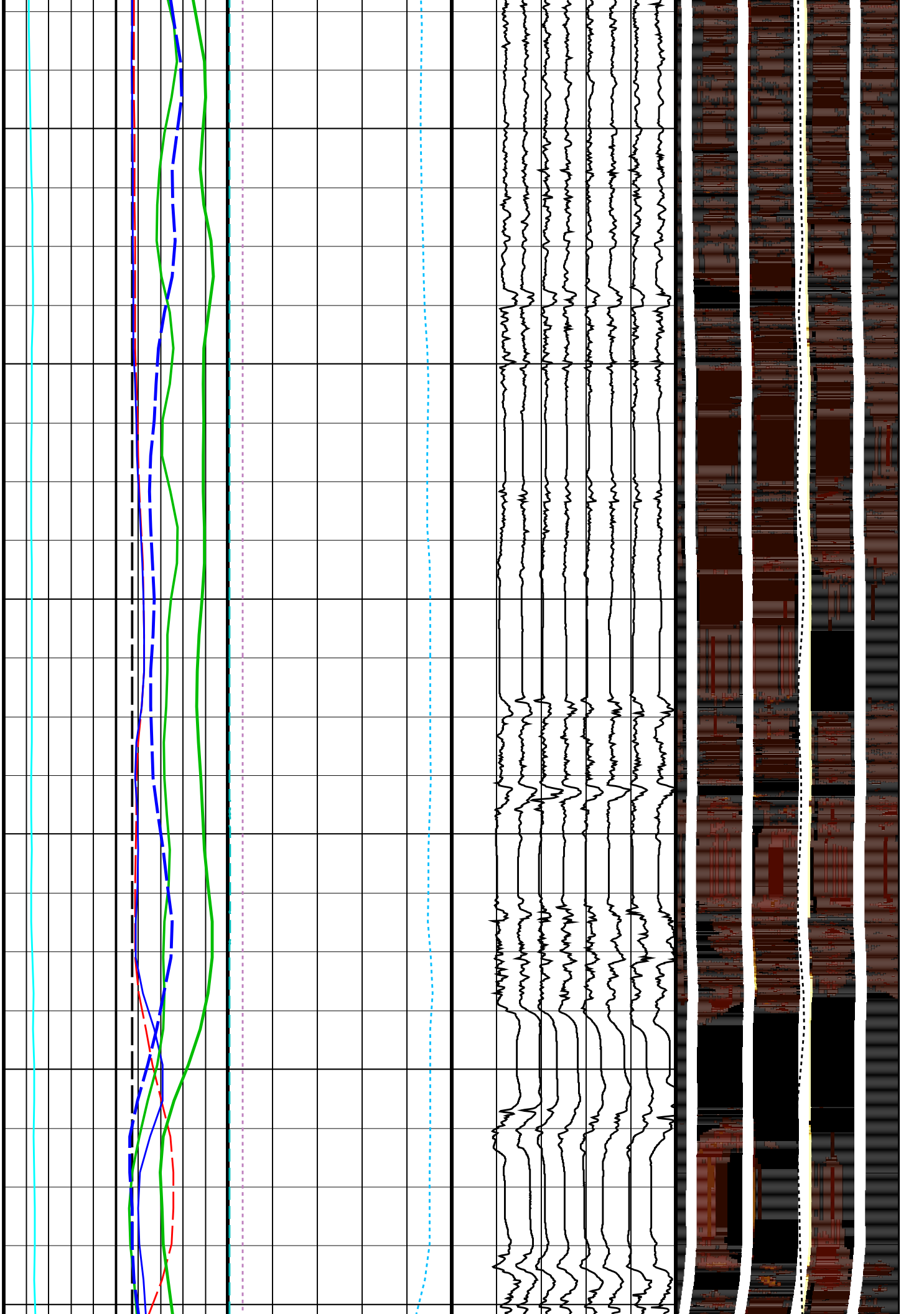
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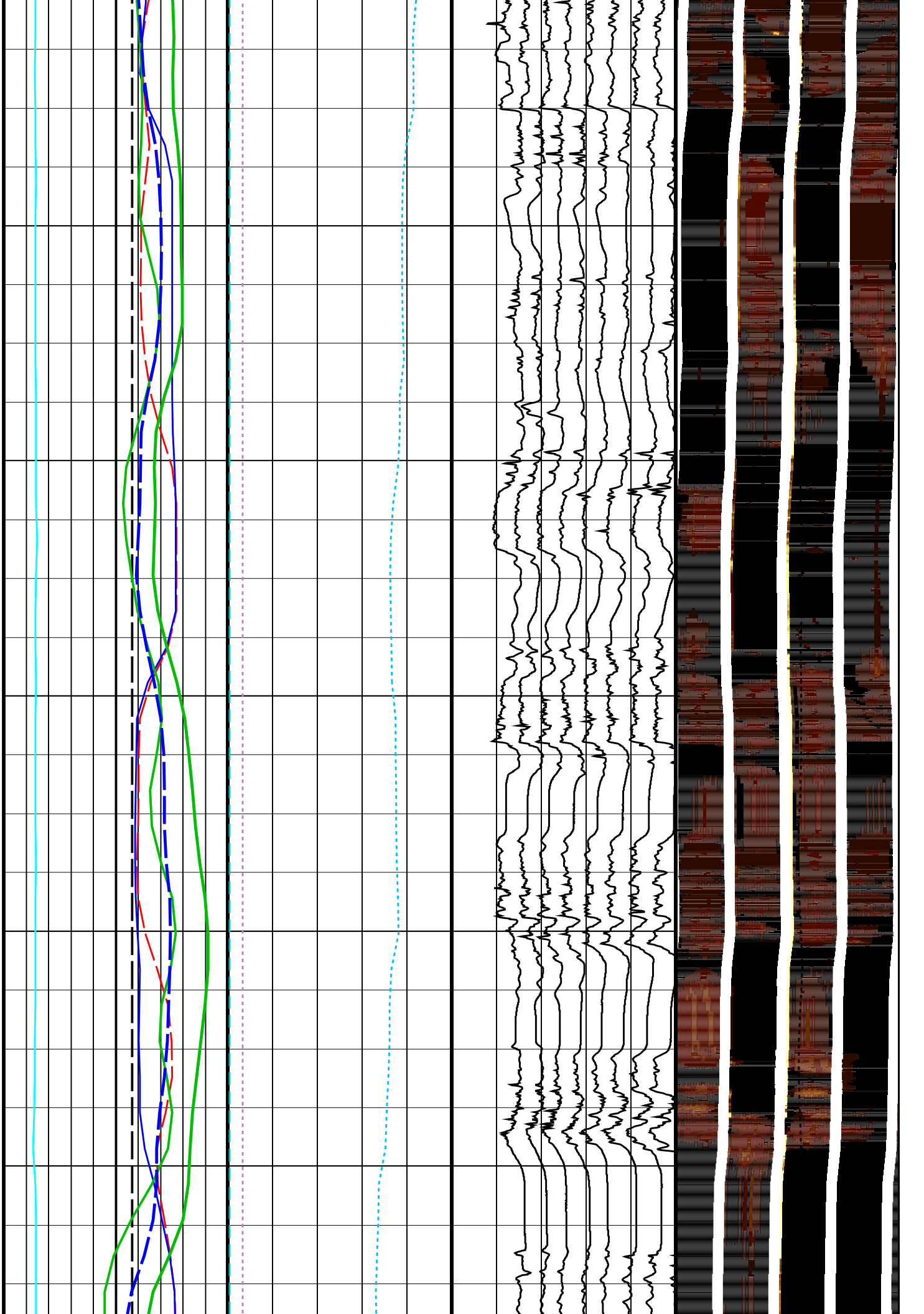
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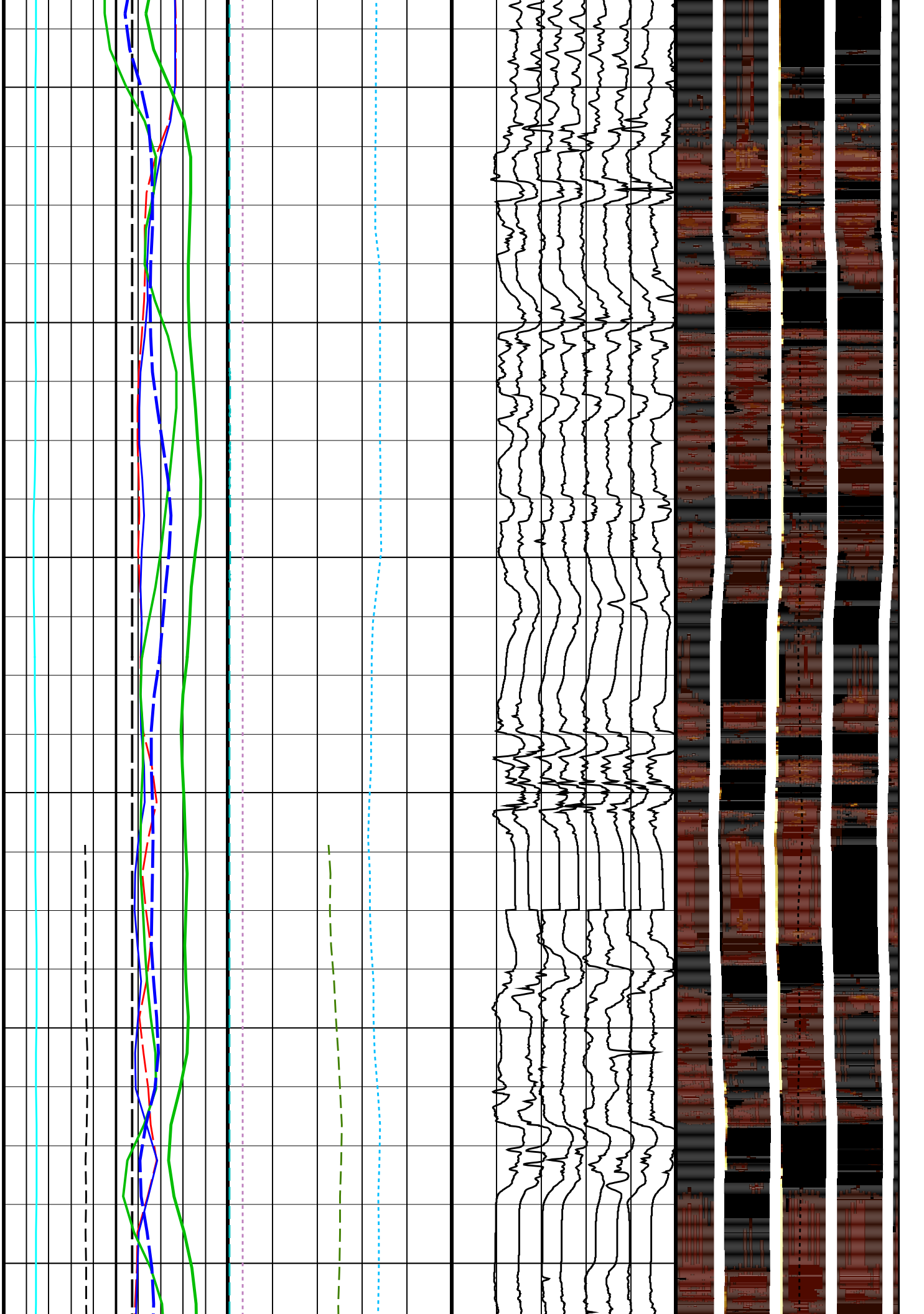
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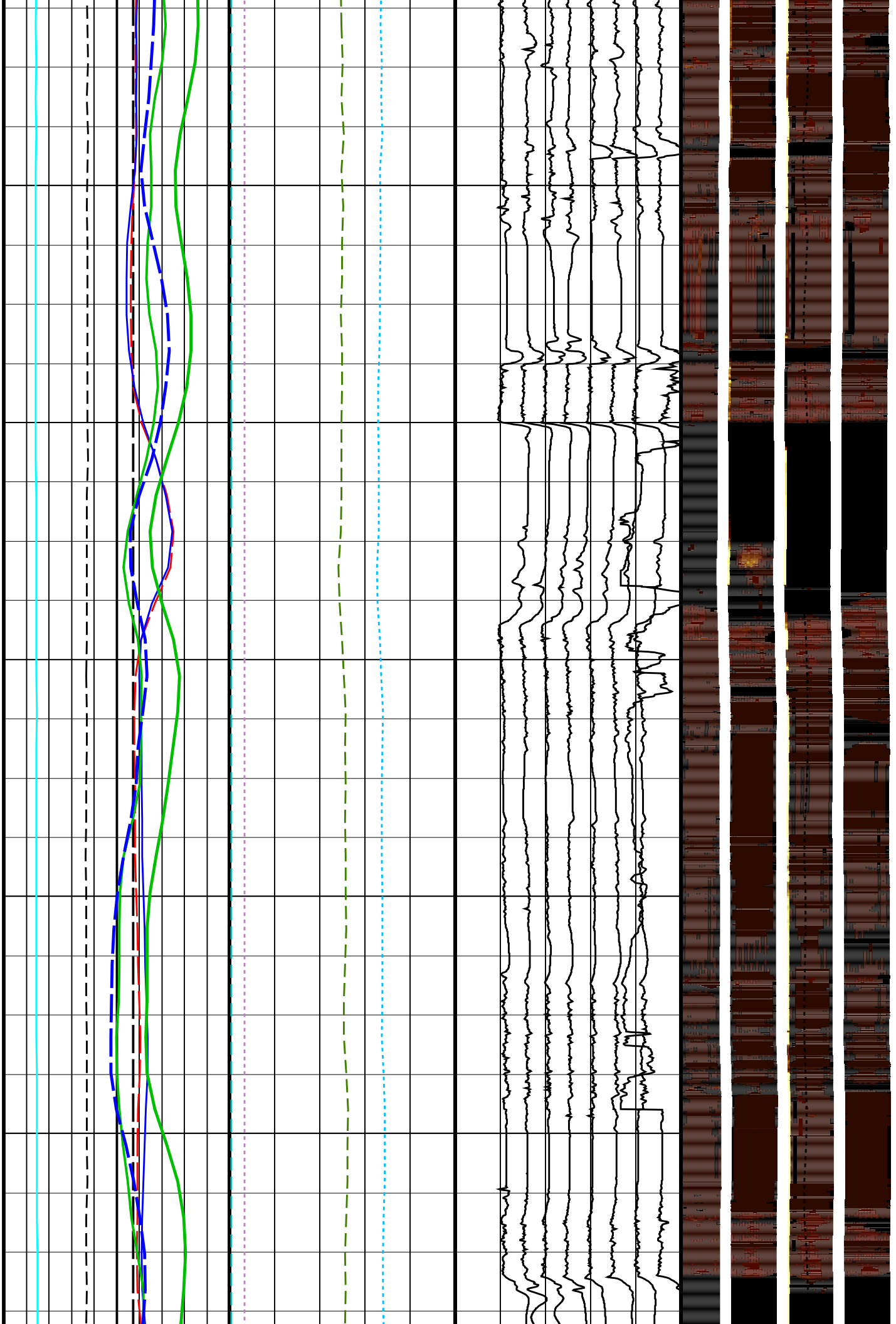
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RB_MEST
P1AZ_MEST

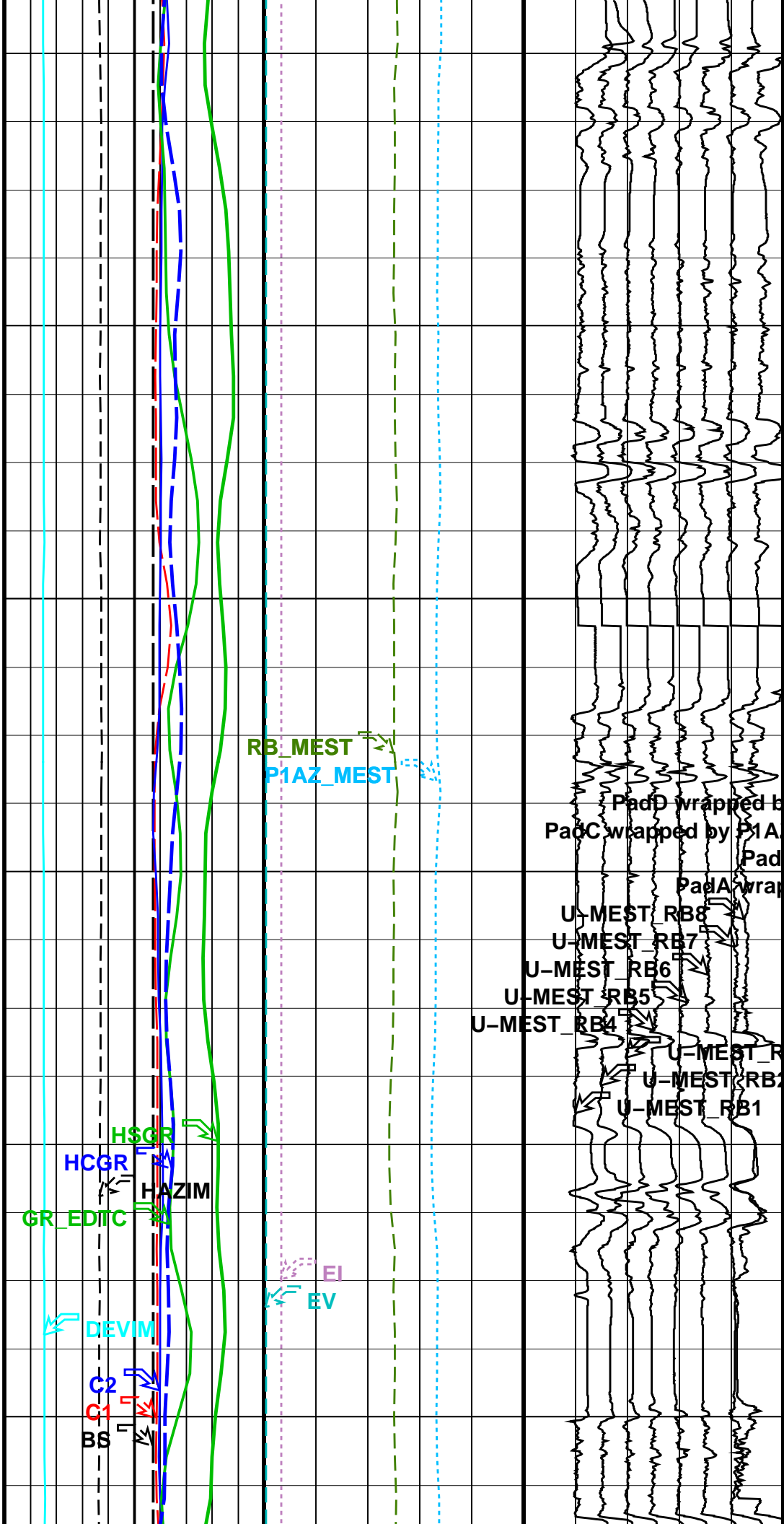
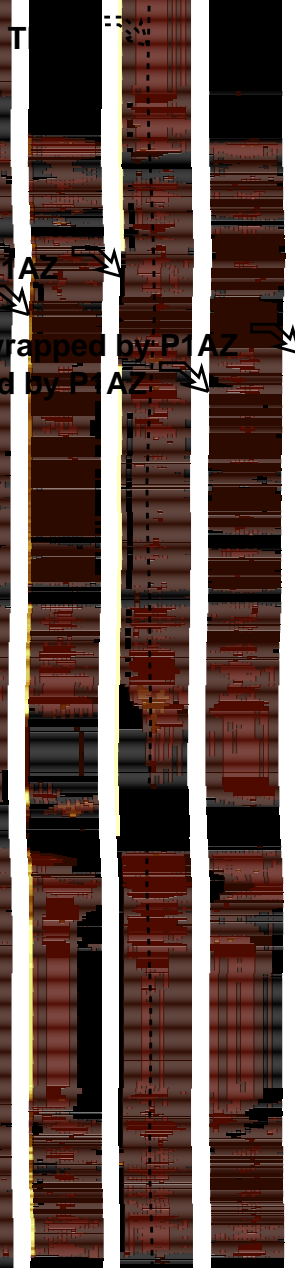
PadD wrapped by P1AZ
PadC wrapped by P1AZ
PadB wrapped by P1AZ
PadA wrapped by P1AZ

U-MEST_RB8
U-MEST_RB7
U-MEST_RB6
U-MEST_RB5
U-MEST_RB4
U-MEST_RB3
U-MEST_RB2
U-MEST_RB1

HSCR
HCGR
HAZIM
GR_EDTC

EI
EV

DEVIM
C2
C1
BS



407

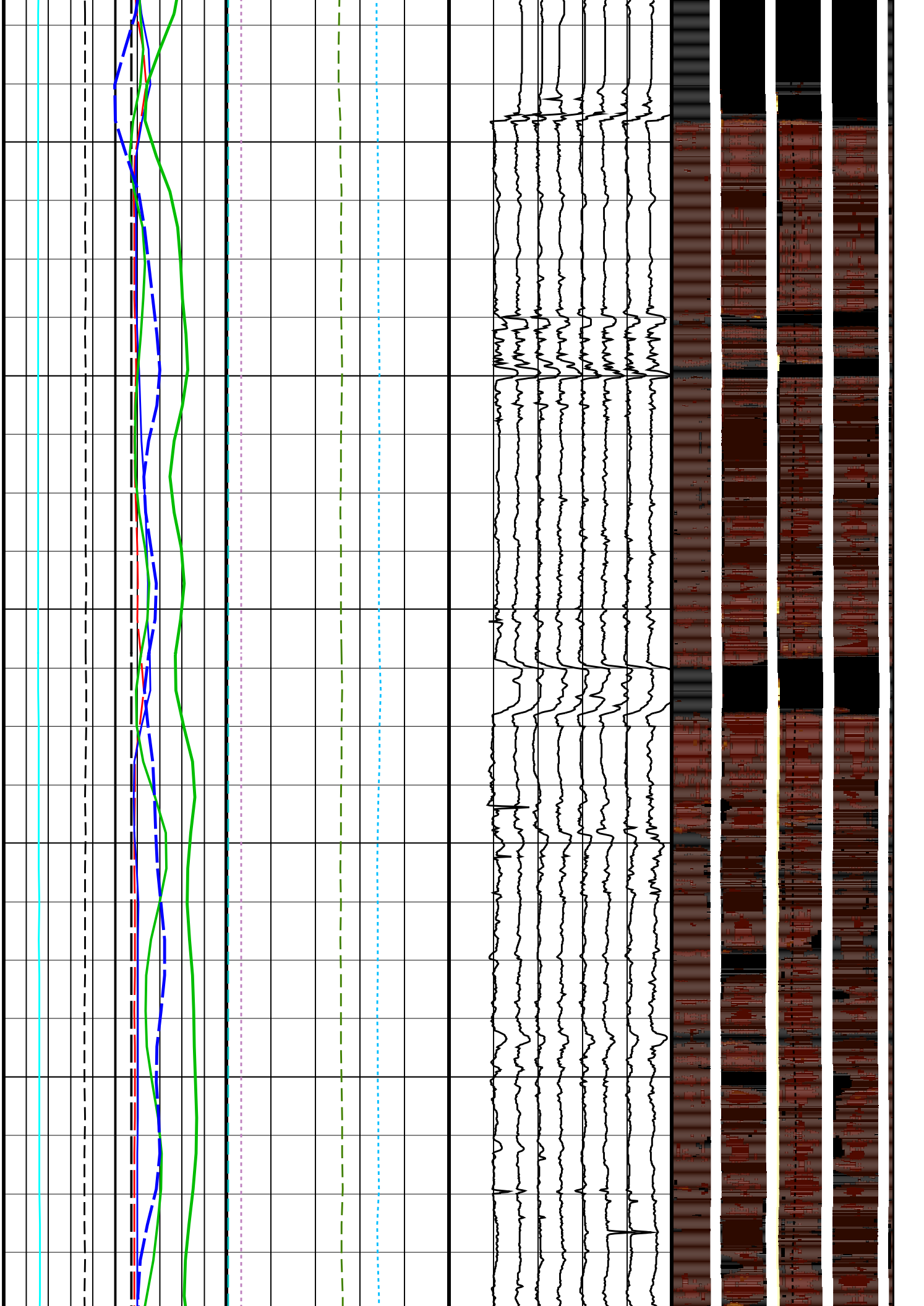
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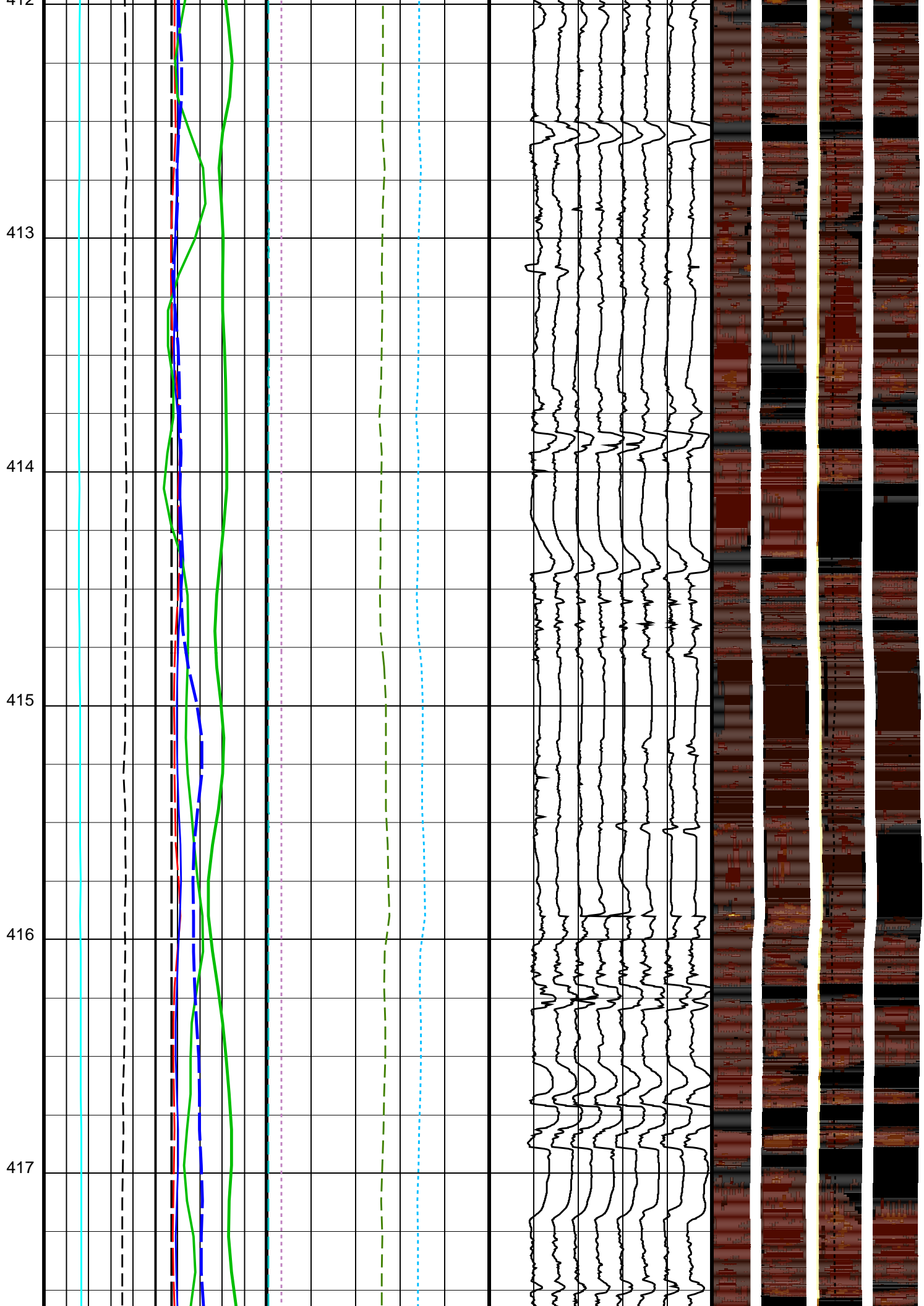
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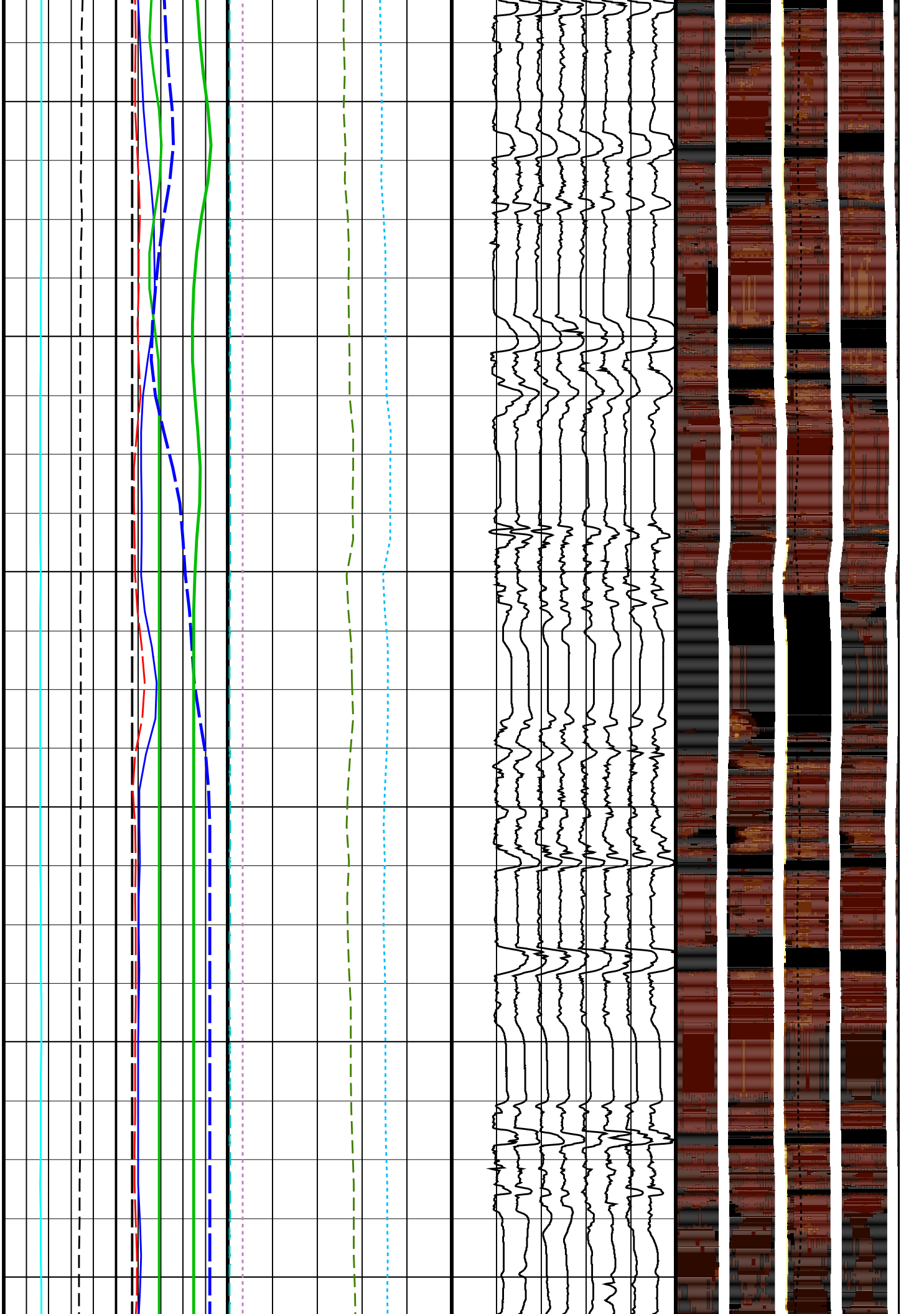
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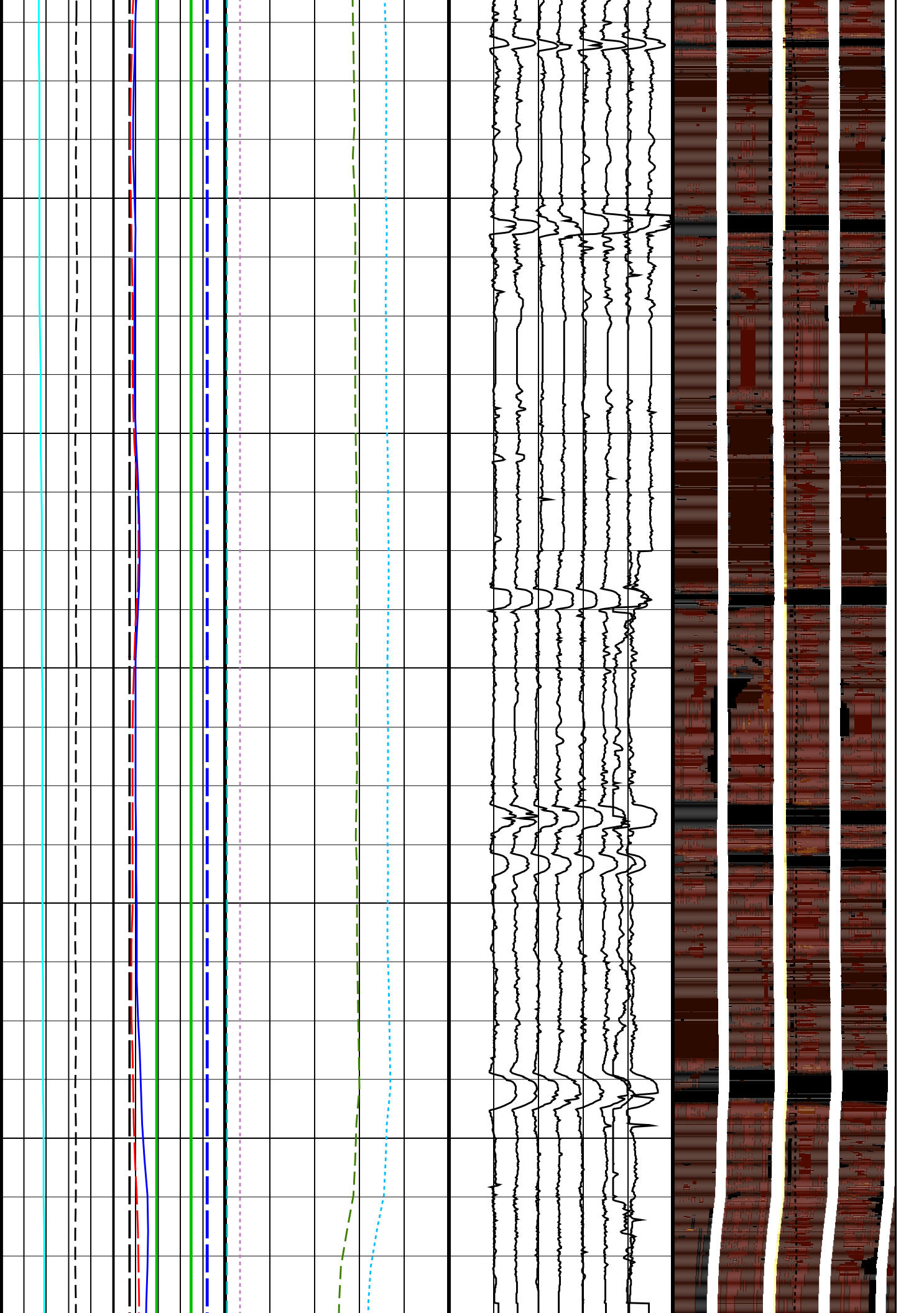
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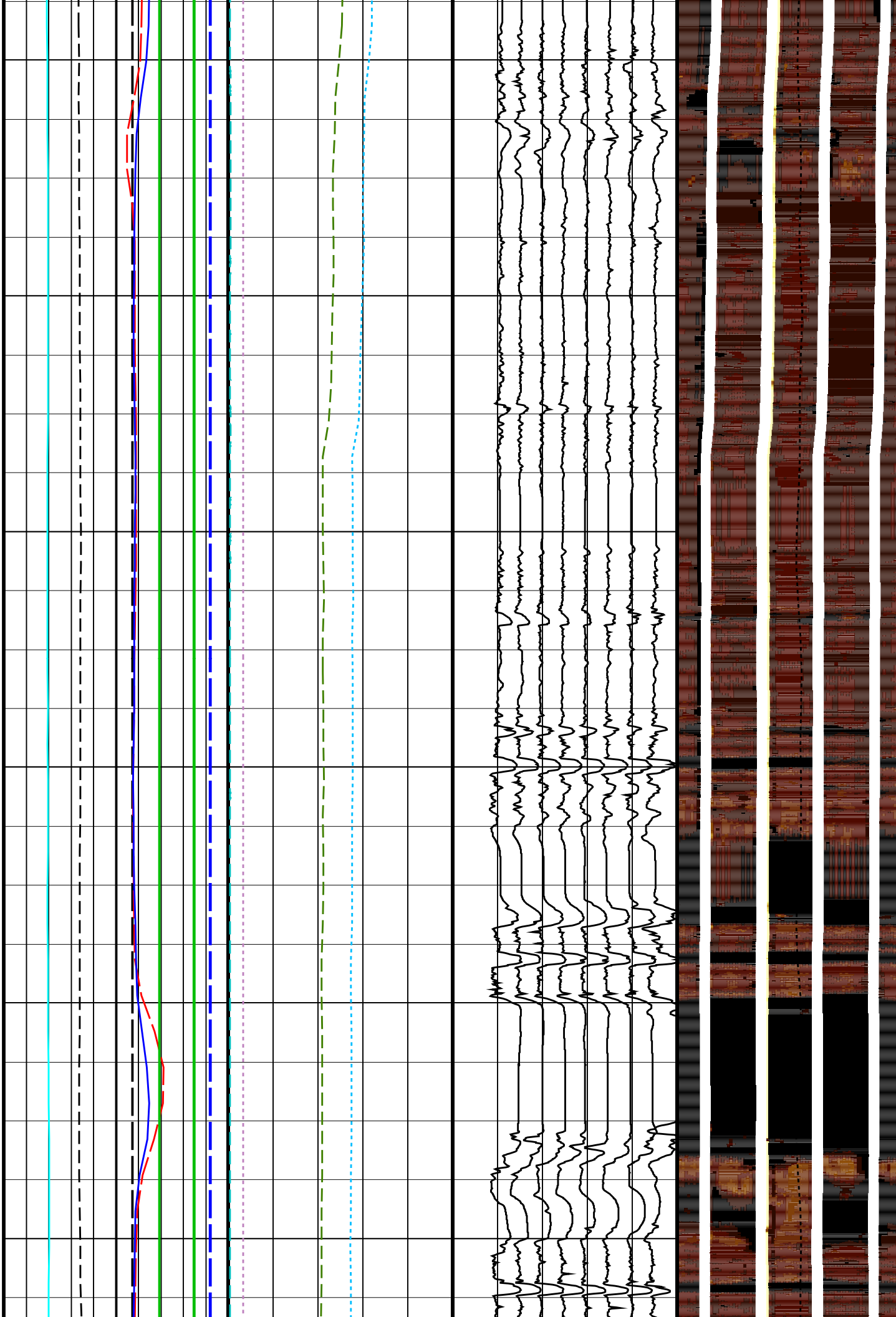
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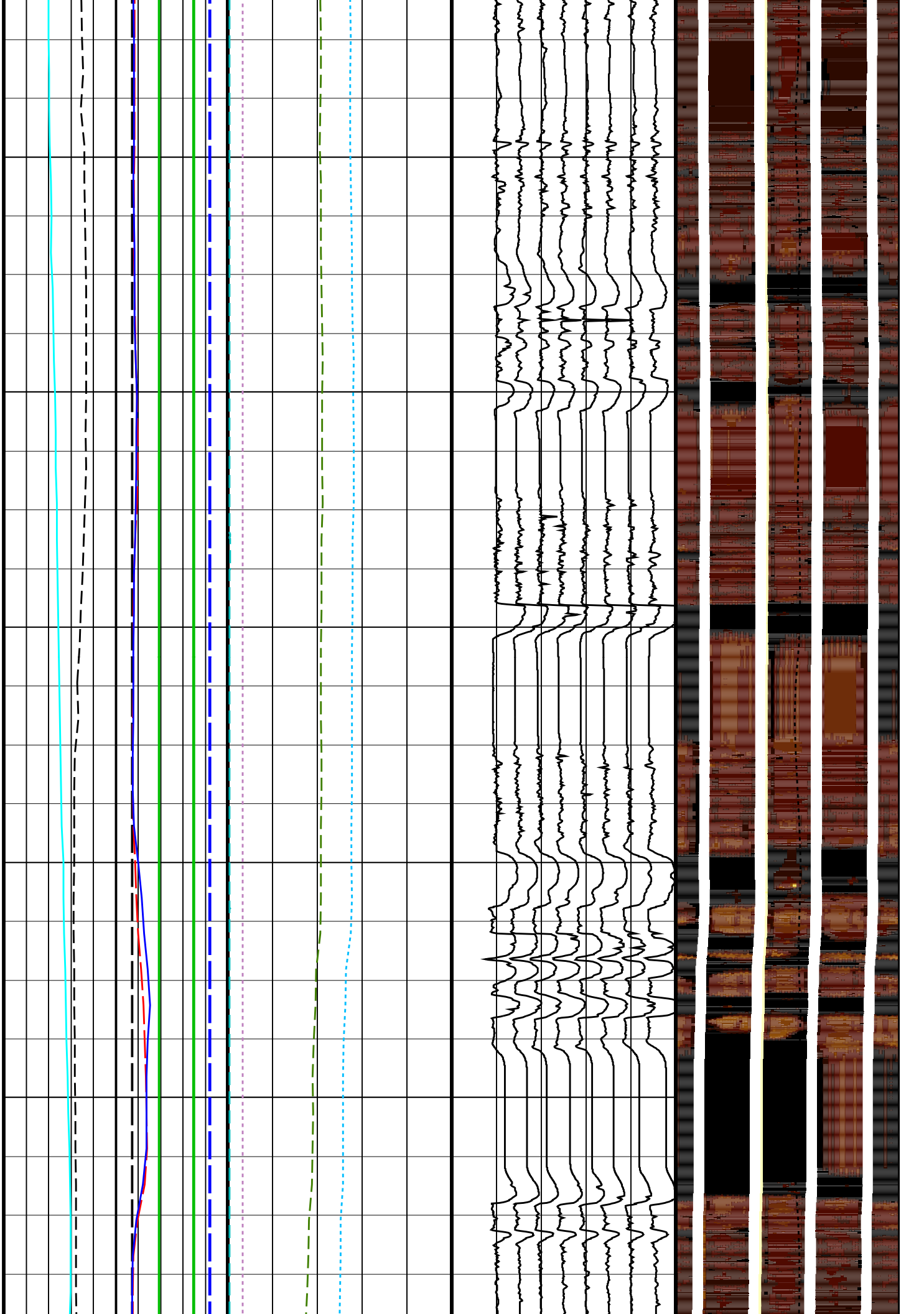
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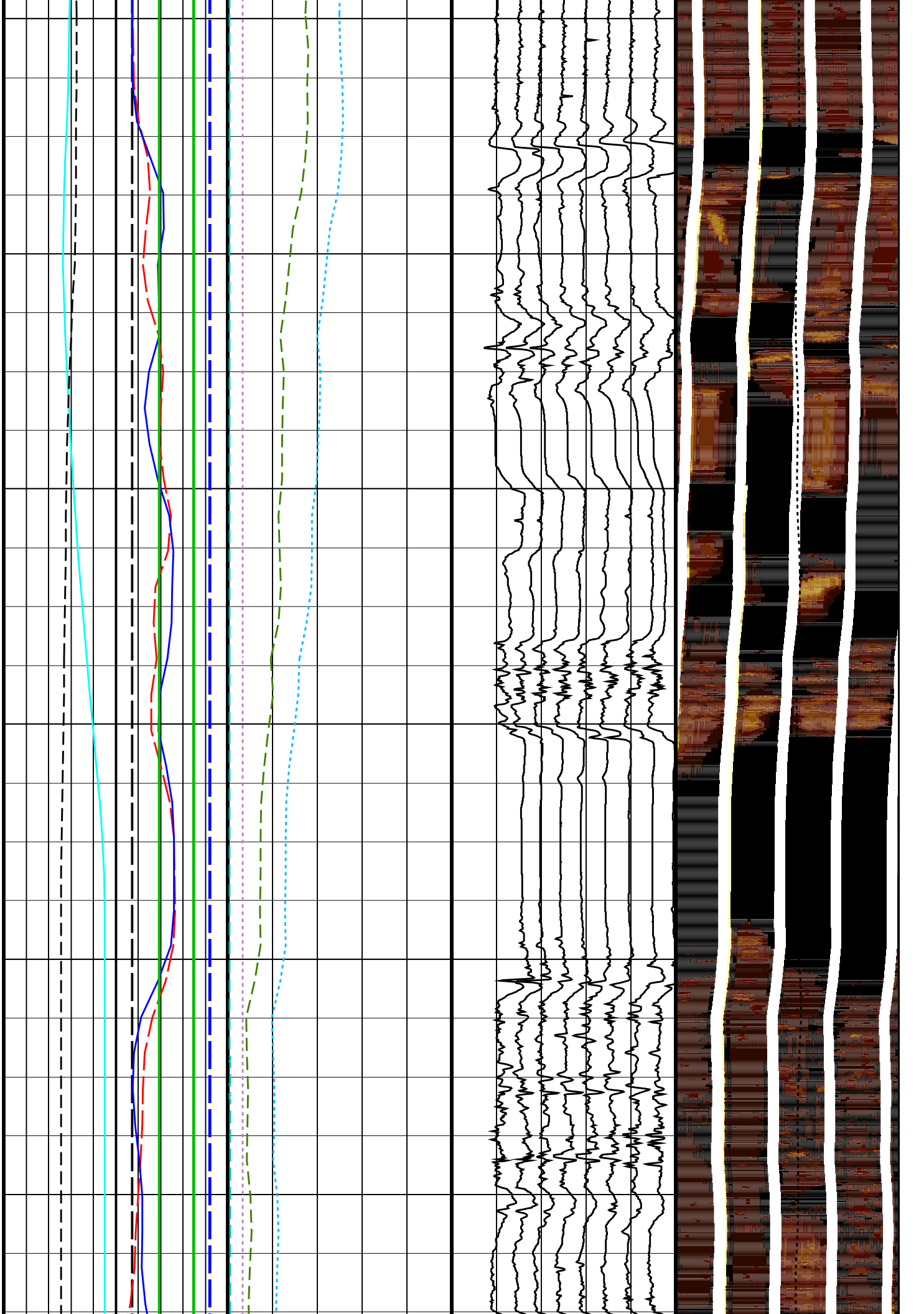
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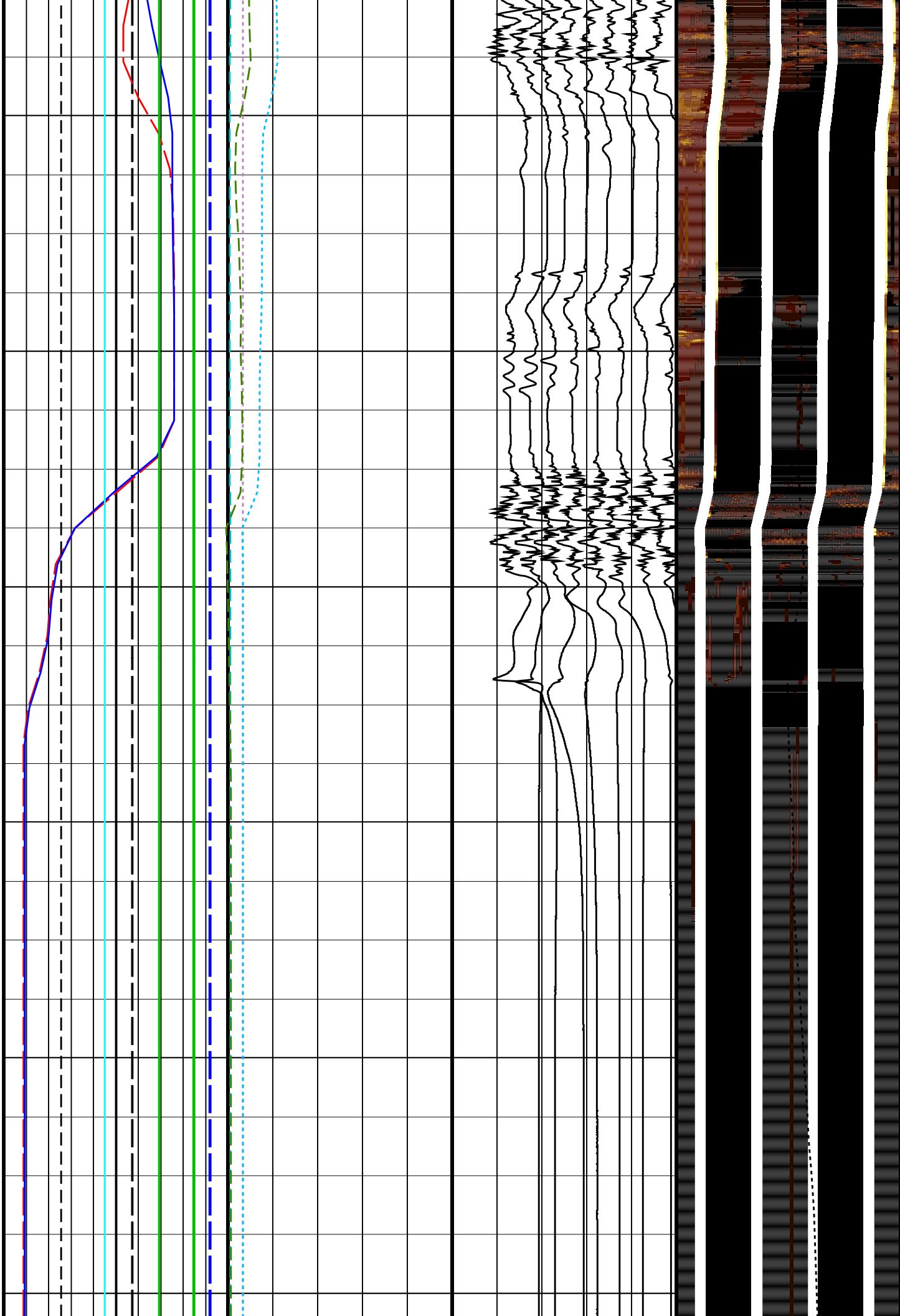
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<p>Caliper 1 (C1) 0 (IN) 20</p>	<p>EMEX Voltage (EV) 0 (V) 50</p>	<p>Data Button 1 – Varies with RBS (U-MEST_RB1) -10 (----) 90</p>	<p>Tension (TENS) 10000 (LBF) 0</p>
<p>Caliper 2 (C2) 0 (IN) 20</p>	<p>EMEX Intensity (EI) 0 (AMPS) 10</p>	<p>Data Button 2 – Varies with RBS (U-MEST_RB2) -20 (----) 80</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADA (U-MEST_RESISTIVITY_PADA_DS) (----)</p>
<p>Deviation (DEVIM) 0 (DEG) 10</p>		<p>Data Button 3 – Varies with RBS (U-MEST_RB3) -30 (----) 70</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS) (----)</p>
<p>Hole Azimuth (HAZIM) -40 (DEG) 360</p>		<p>Data Button 4 – Varies with RBS (U-MEST_RB4) -40 (----) 60</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)</p>
<p>Pad One Azimuth (P1AZ_MEST) -40 (DEG) 360</p>		<p>Data Button 5 – Varies with RBS (U-MEST_RB5) -50 (----) 50</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)</p>
<p>Relative Bearing (RB_MEST) -40 (DEG) 360</p>		<p>Data Button 6 – Varies with RBS (U-MEST_RB6) -60 (----) 40</p>	
<p>Bit Size (BS) 0 (IN) 20</p>		<p>Data Button 7 – Varies with RBS (U-MEST_RB7) -70 (----) 30</p>	
<p>Gamma Ray (GR_EDTC) 0 (GAPI) 100</p>		<p>Data Button 8 – Varies with RBS (U-MEST_RB8) -80 (----) 20</p>	
<p>HNGS Computed Gamma Ray (HCGR) 0 (GAPI) 100</p>	<p>Sea Floor Depth Reference</p>		
<p>HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100</p>	<p>FMS Raw Images</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	-0.884445 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	BS
HNGS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0 IN

CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00293402	
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	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.08523	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	-0.521326	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.20	G/C3
DO	Depth Offset for Playback	-2509.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:20 Graphics File Created: 07-Jan-2015 02:23

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_024LUP	FN:42	PRODUCER	06-Jan-2015 18:12	2960.4 M	2497.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_032PUP	FN:52	PRODUCER	07-Jan-2015 02:23		
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Company: Integrated Ocean Discovery Program Well: Expedition 353, Site U1445A BB-5

Input DLIS Files

DEFAULT	FMS_DSI_NGS_022LUP	FN:38	PRODUCER	06-Jan-2015 17:07	2960.4 M	2636.7 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_030PUP	FN:50	PRODUCER	07-Jan-2015 02:13	450.3 M	126.6 M
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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

HNGS Spectroscopy Gamma Ray (HSGR)

0 (GAPI) 100

HNGS Computed Gamma Ray (HCGR)

0 (GAPI) 100

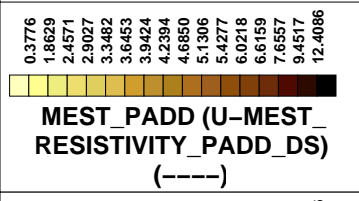
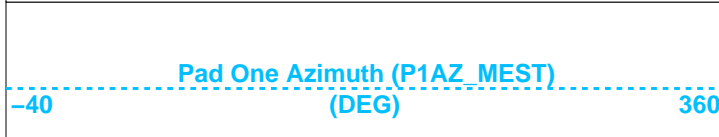
FMS Raw Images Uplod 1 Sea Floor Depth

Gamma Ray (GR_EDTC)		
0	(GAPI)	100
Bit Size (BS)		
0	(IN)	20

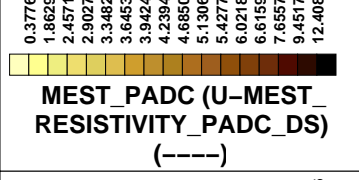
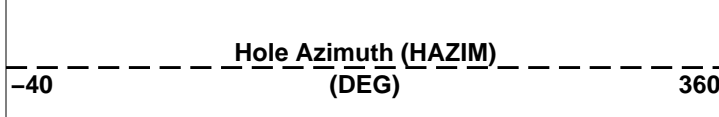
Data Button 8 - Varies with RBS (U-MEST_RB8)		
-80	(----)	20
Data Button 7 - Varies with RBS (U-MEST_RB7)		
-70	(----)	30
Data Button 6 - Varies with RBS (U-MEST_RB6)		
-60	(----)	40



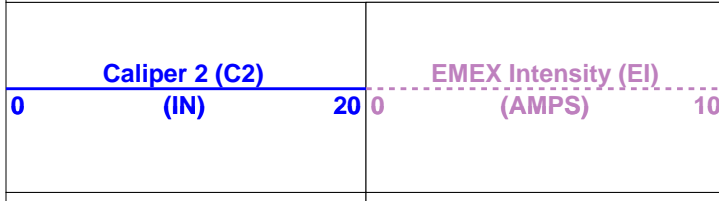
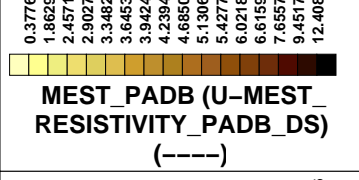
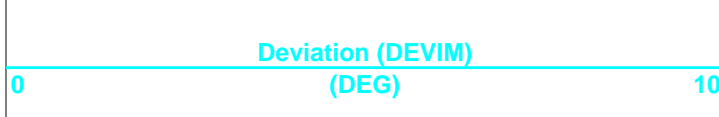
Data Button 5 - Varies with RBS (U-MEST_RB5)		
-50	(----)	50



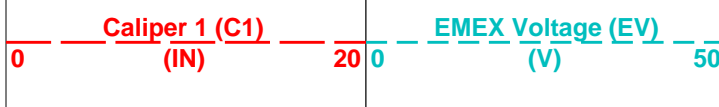
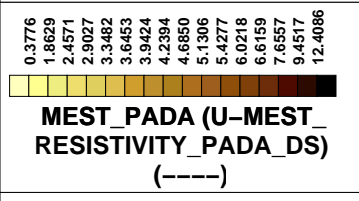
Data Button 4 - Varies with RBS (U-MEST_RB4)		
-40	(----)	60



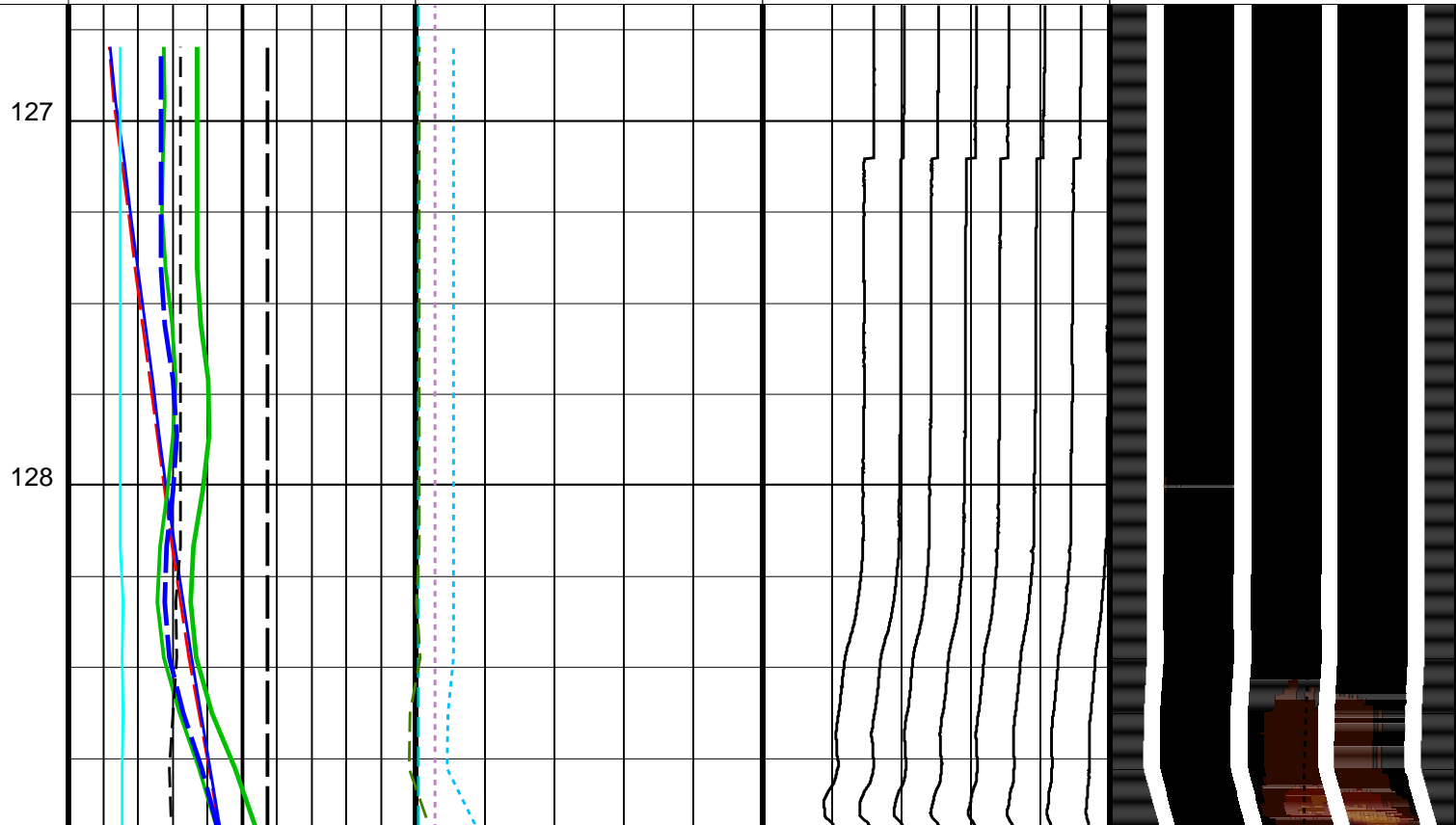
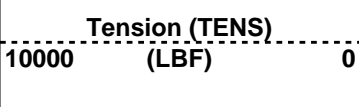
Data Button 3 - Varies with RBS (U-MEST_RB3)		
-30	(----)	70

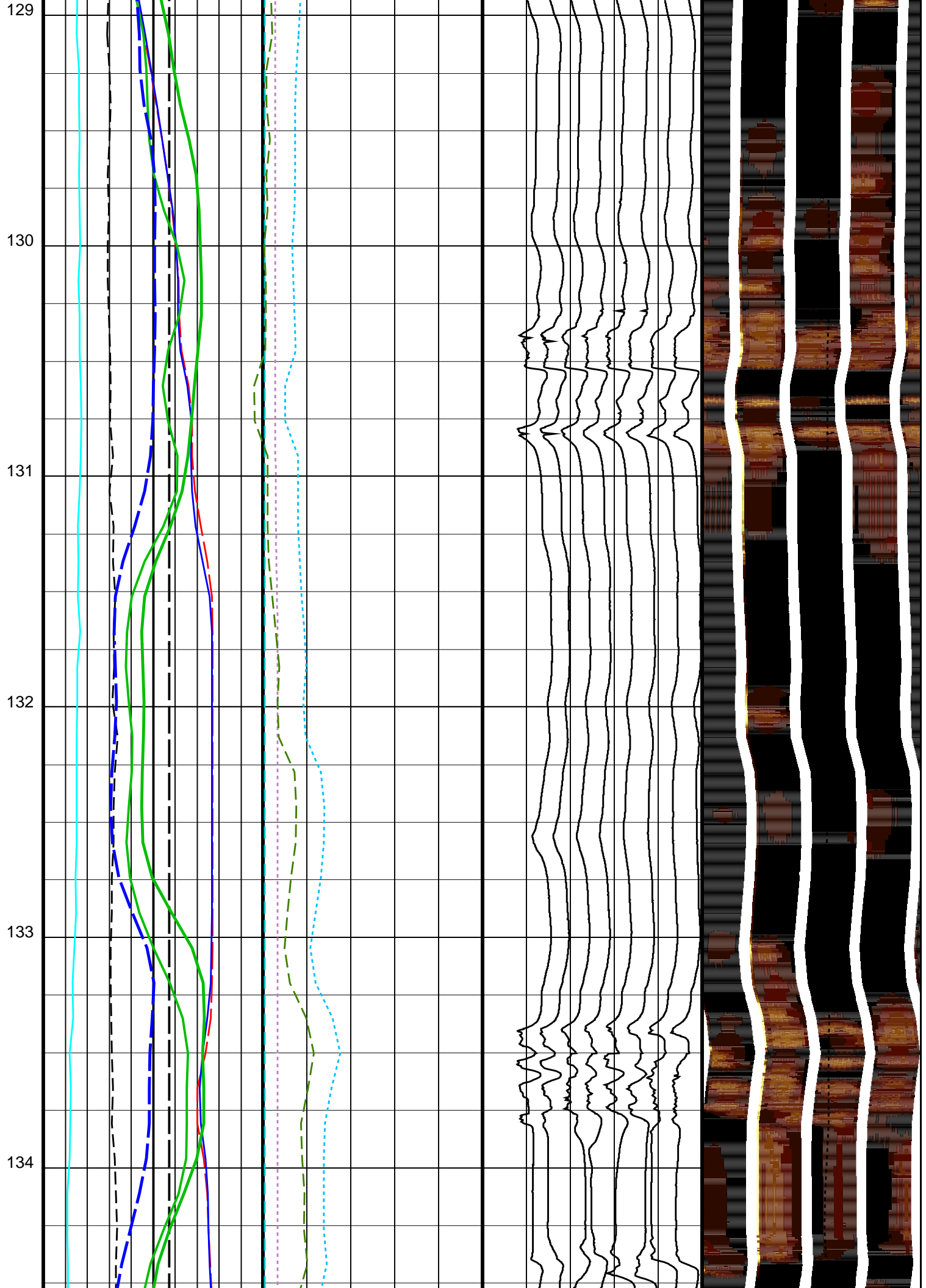


Data Button 2 - Varies with RBS (U-MEST_RB2)		
-20	(----)	80



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





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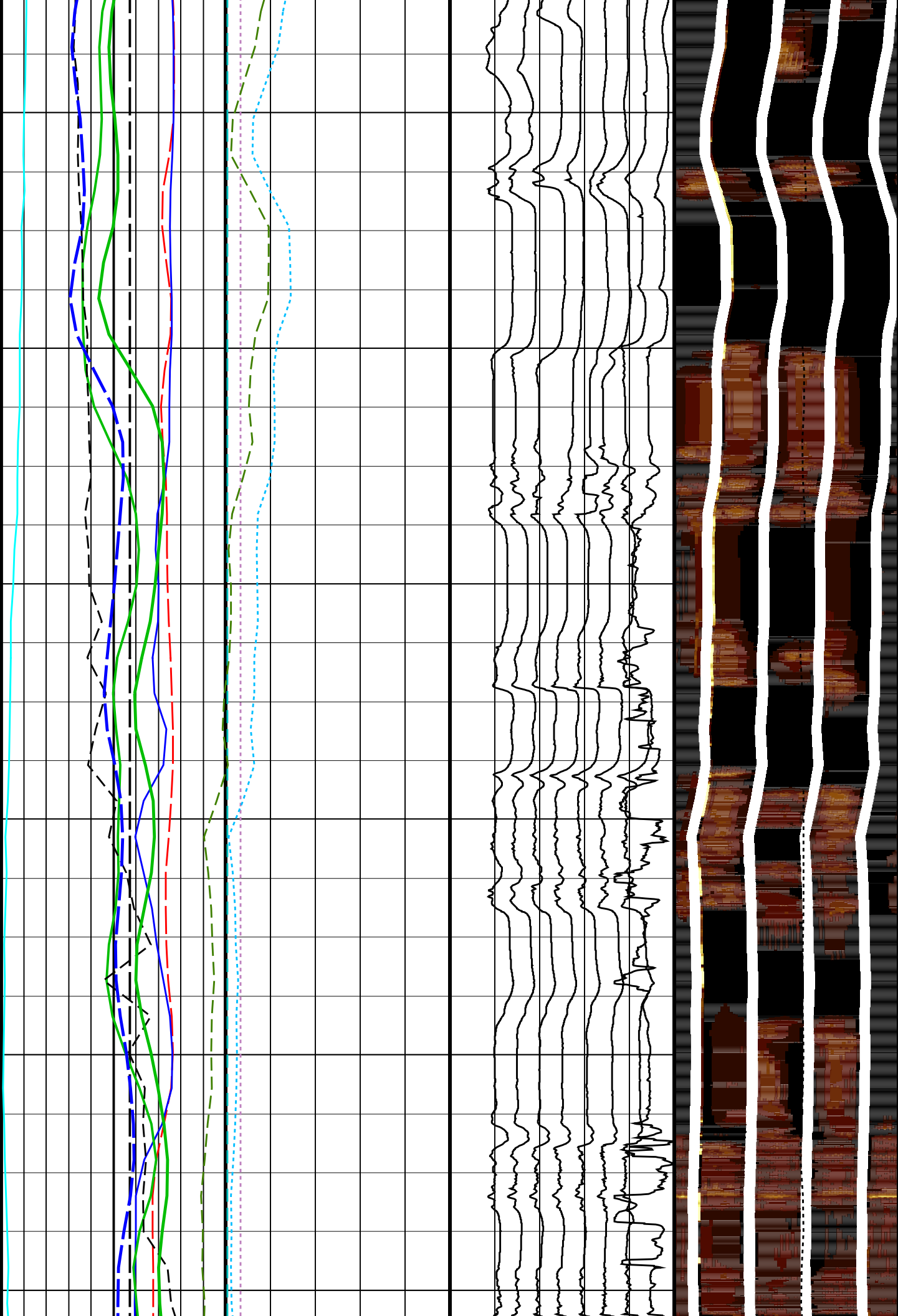
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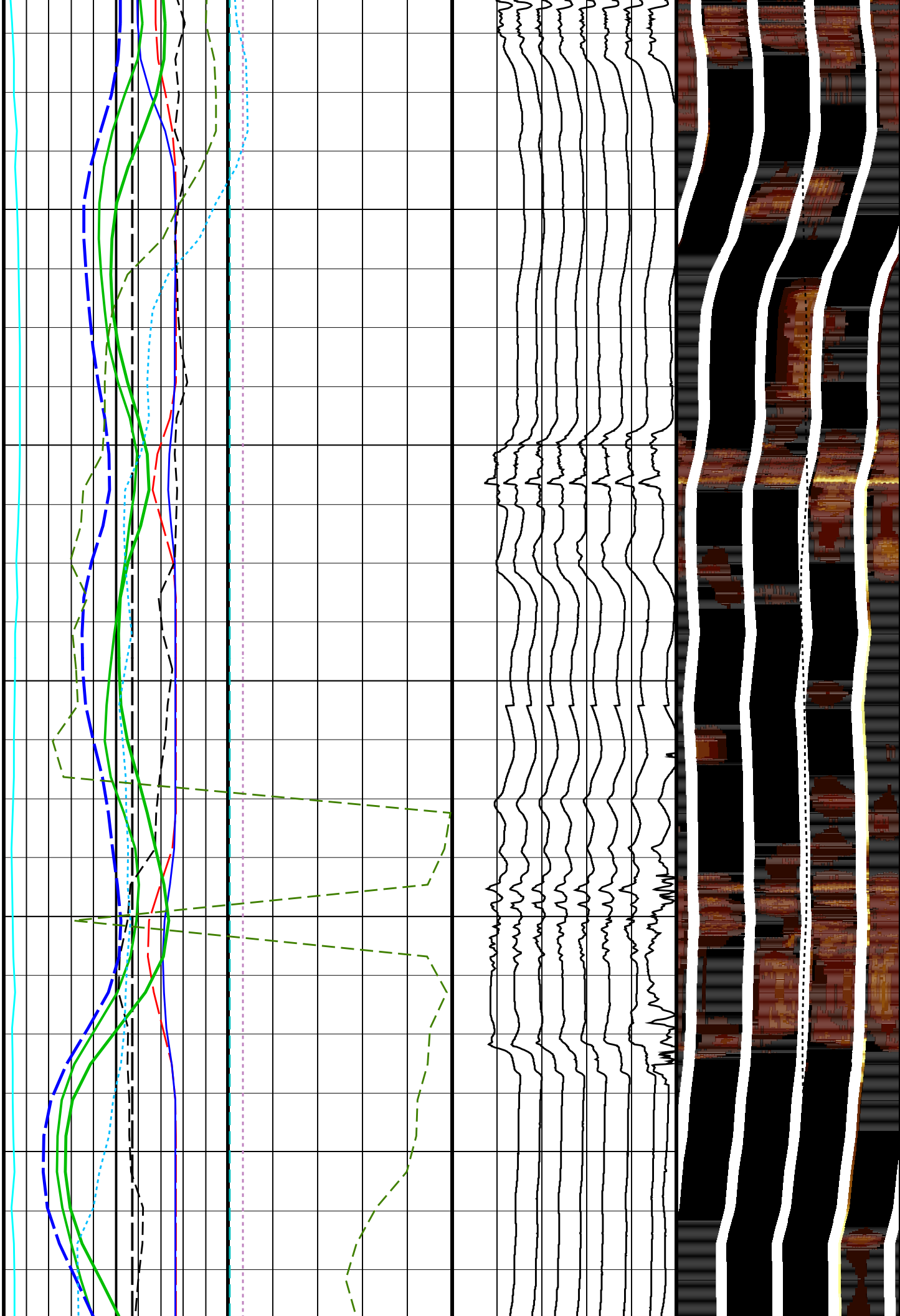
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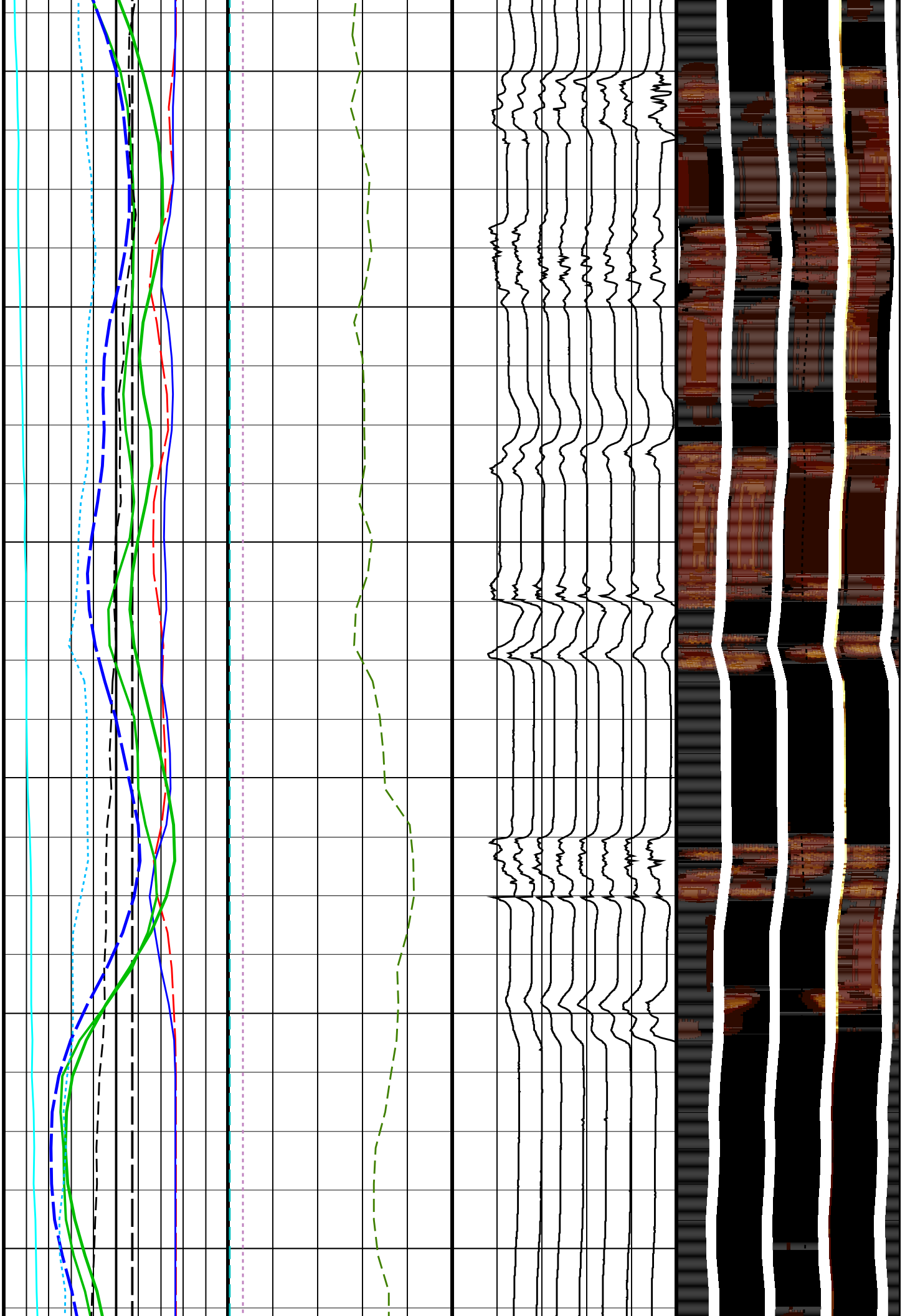
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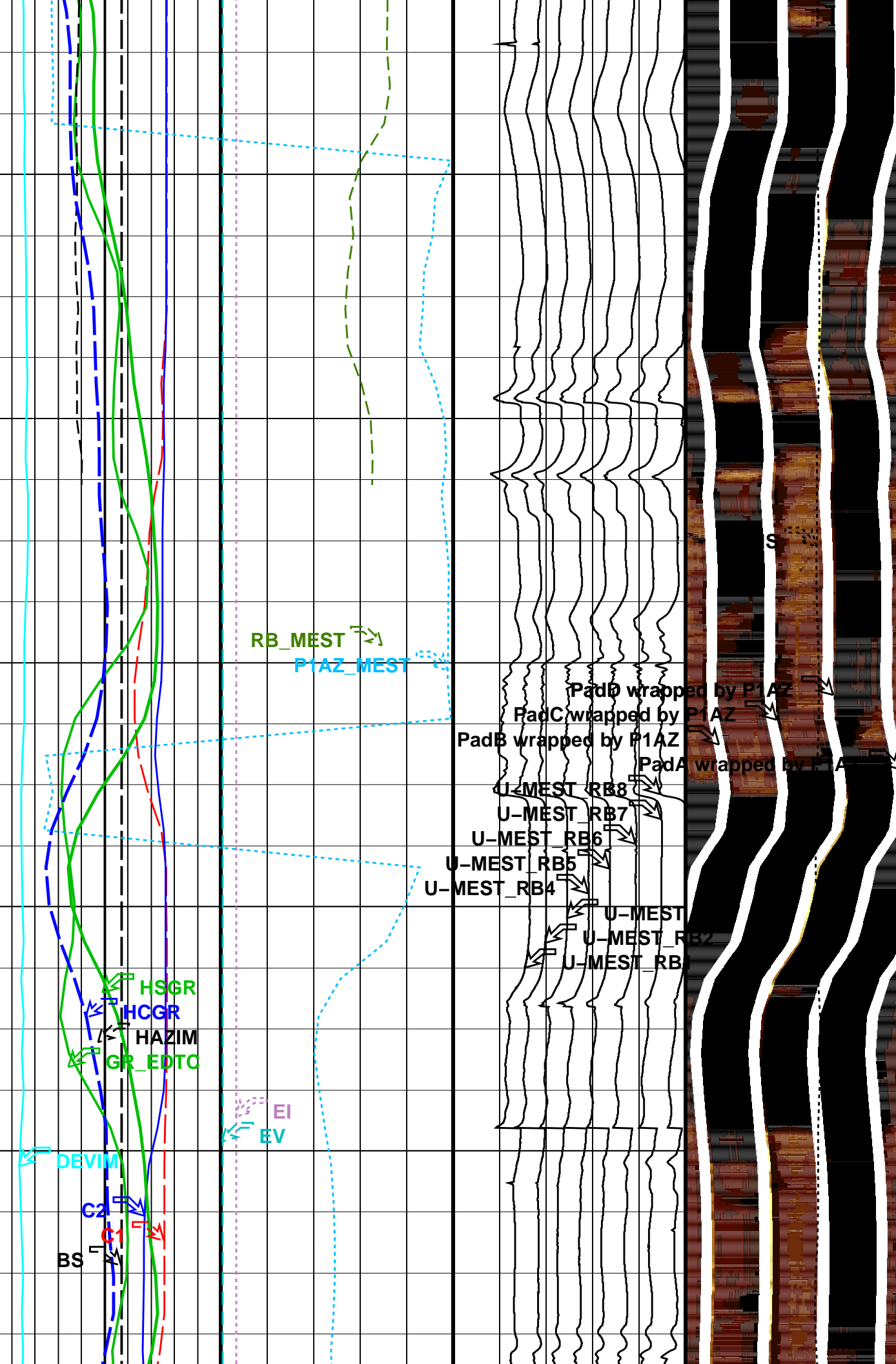
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RB_MEST
P1AZ_MEST

PadD wrapped by P1AZ
PadC wrapped by P1AZ
PadB wrapped by P1AZ
PadA wrapped by P1AZ

U-MEST_RB8
U-MEST_RB7
U-MEST_RB6
U-MEST_RB5
U-MEST_RB4
U-MEST_RB3
U-MEST_RB2
U-MEST_RB1

HSGR
HCGR
HAZIM
GR_EDTC

EI
EV

DEVIM
C2
C1
BS

S

157

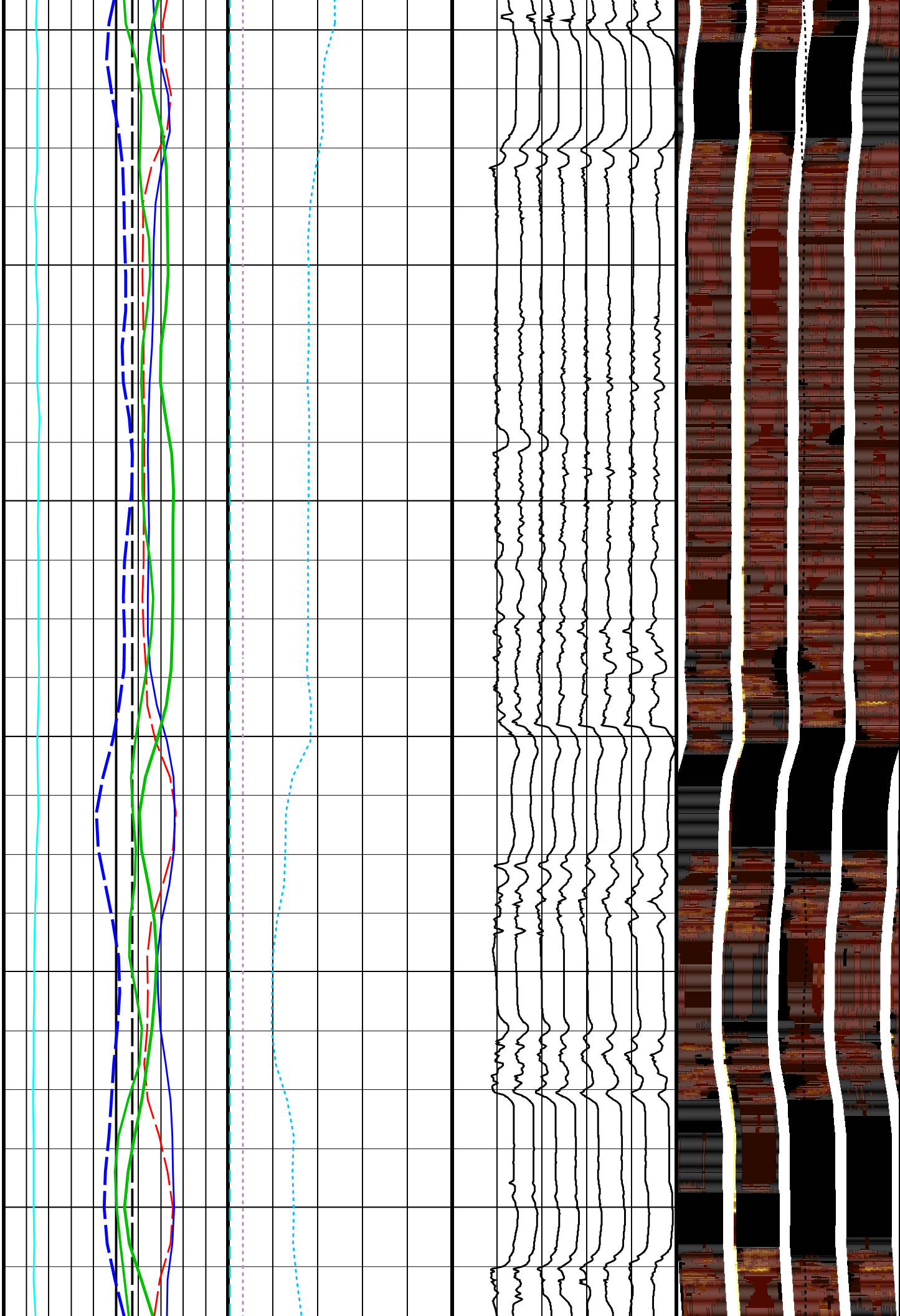
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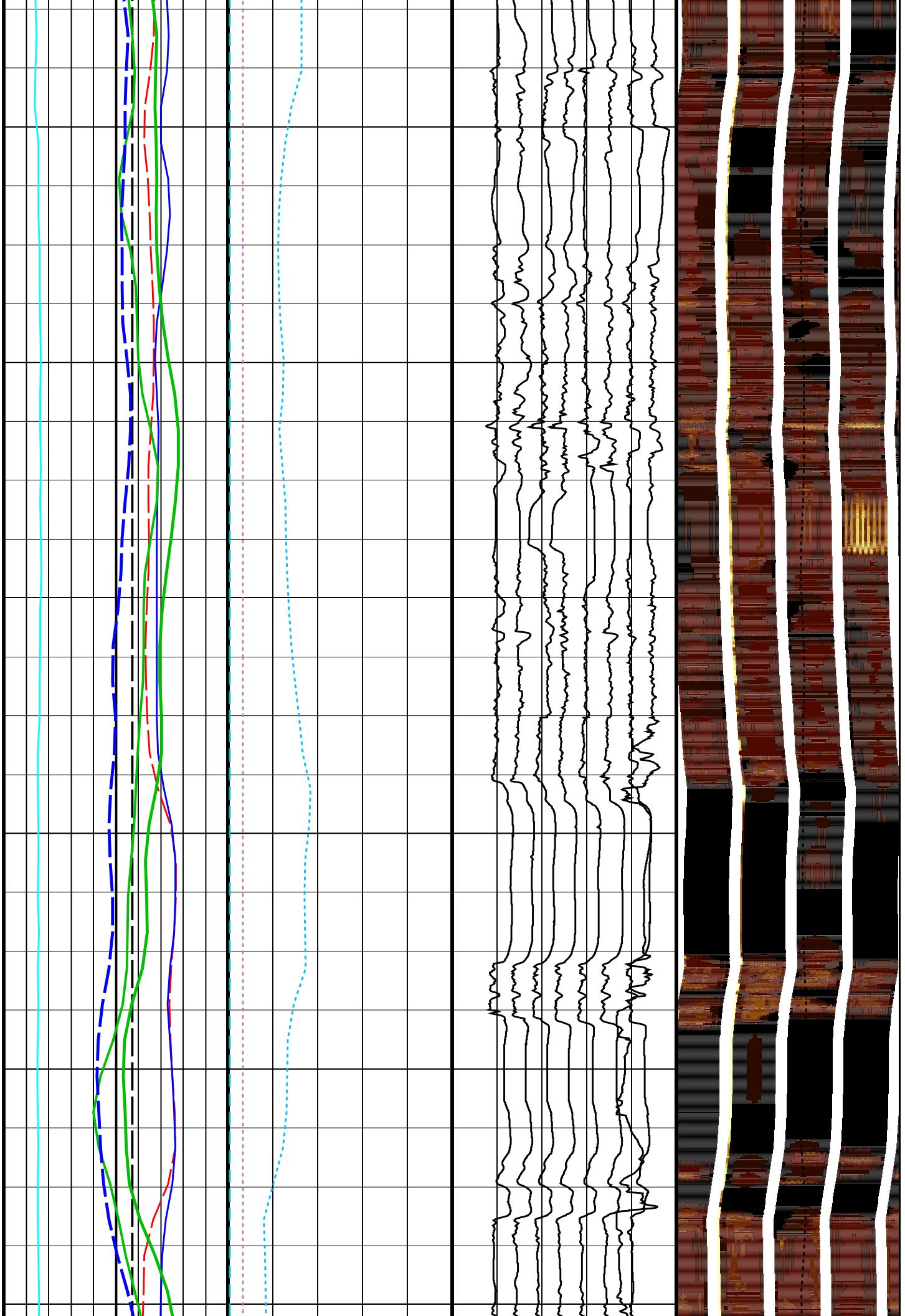
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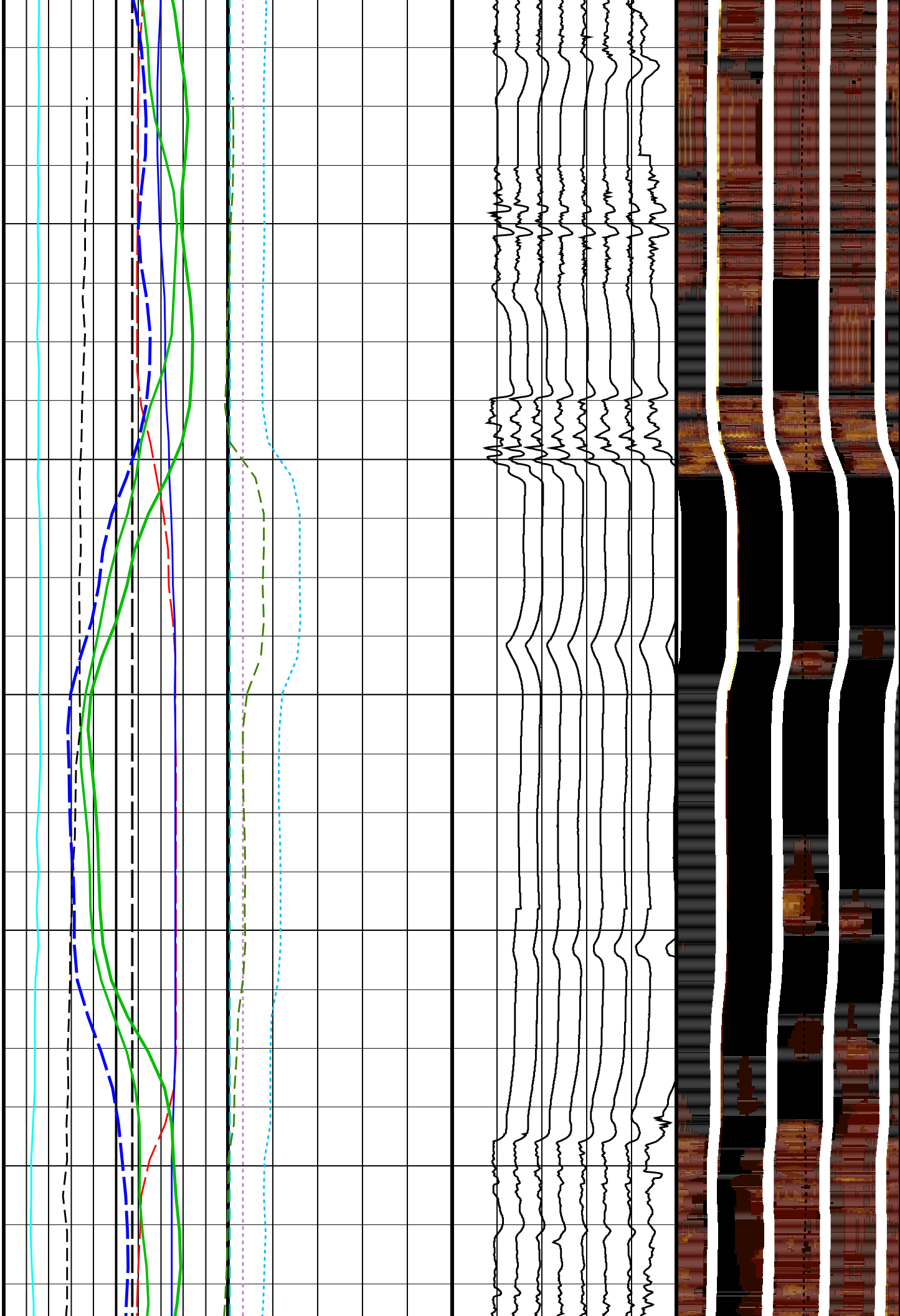
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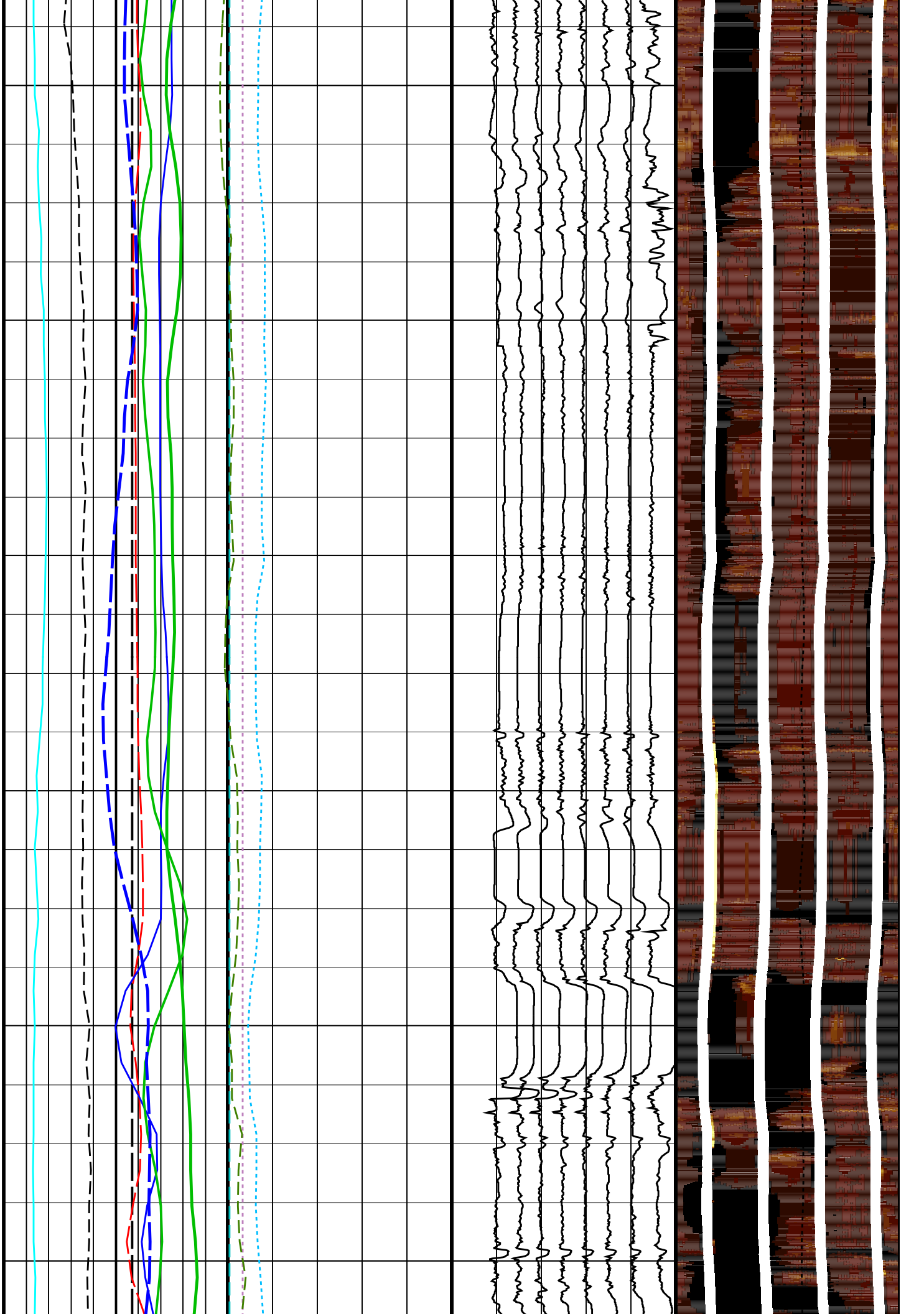
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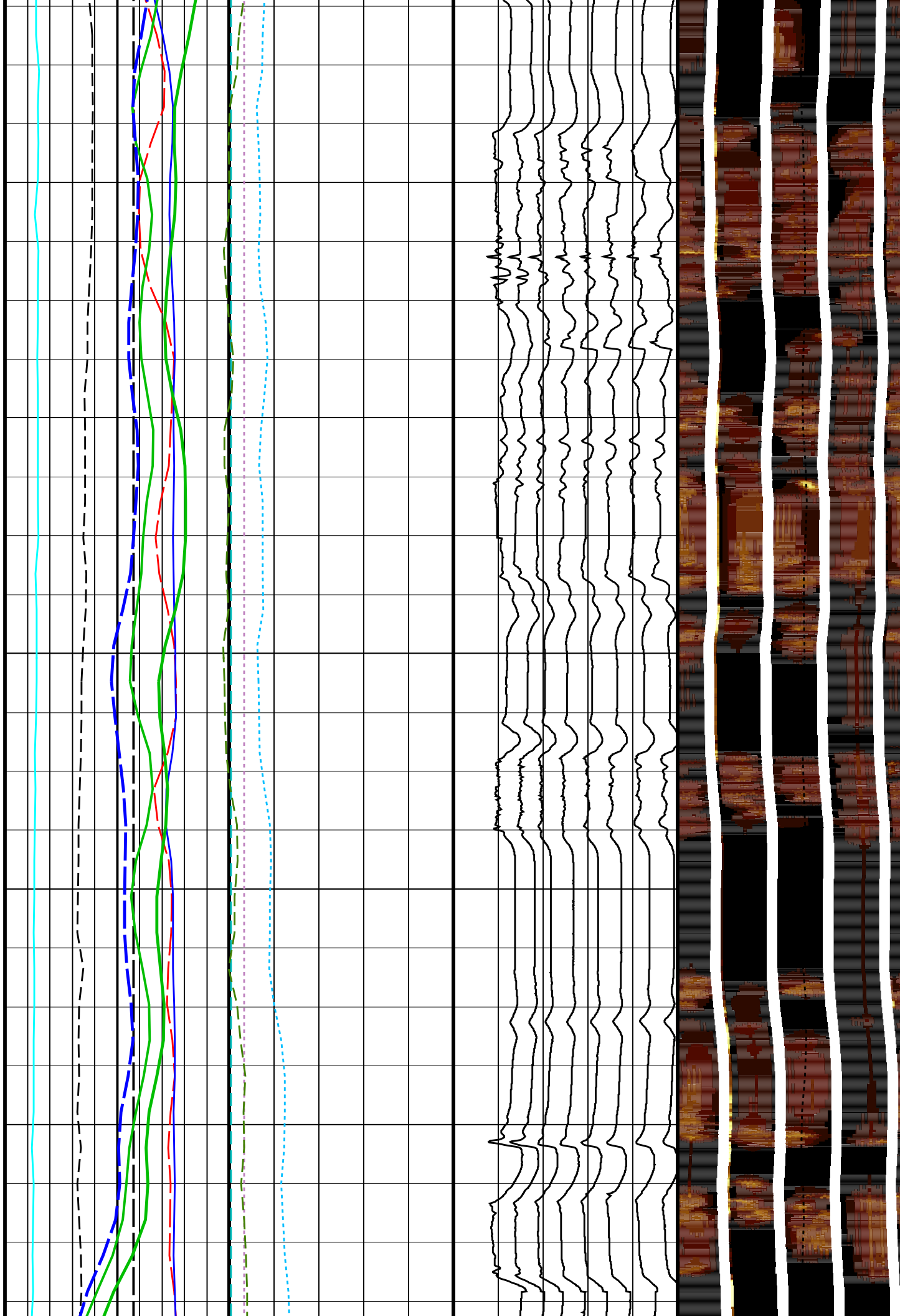
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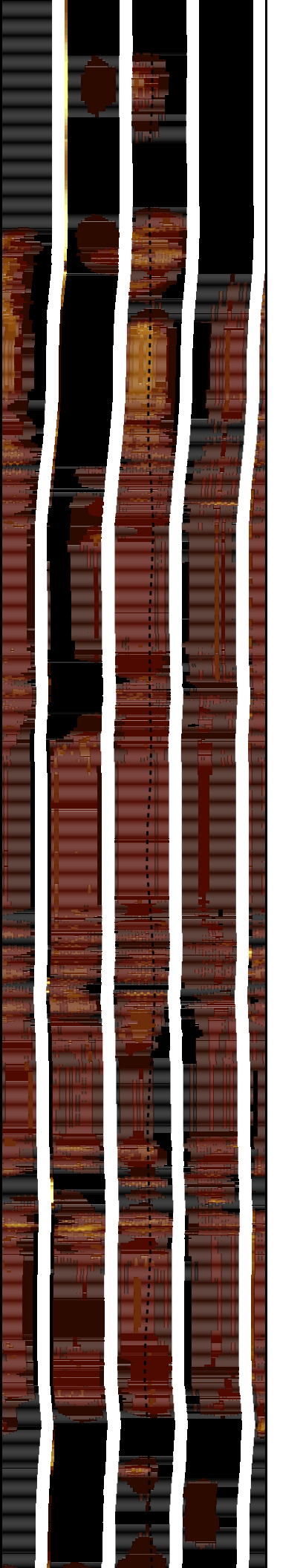
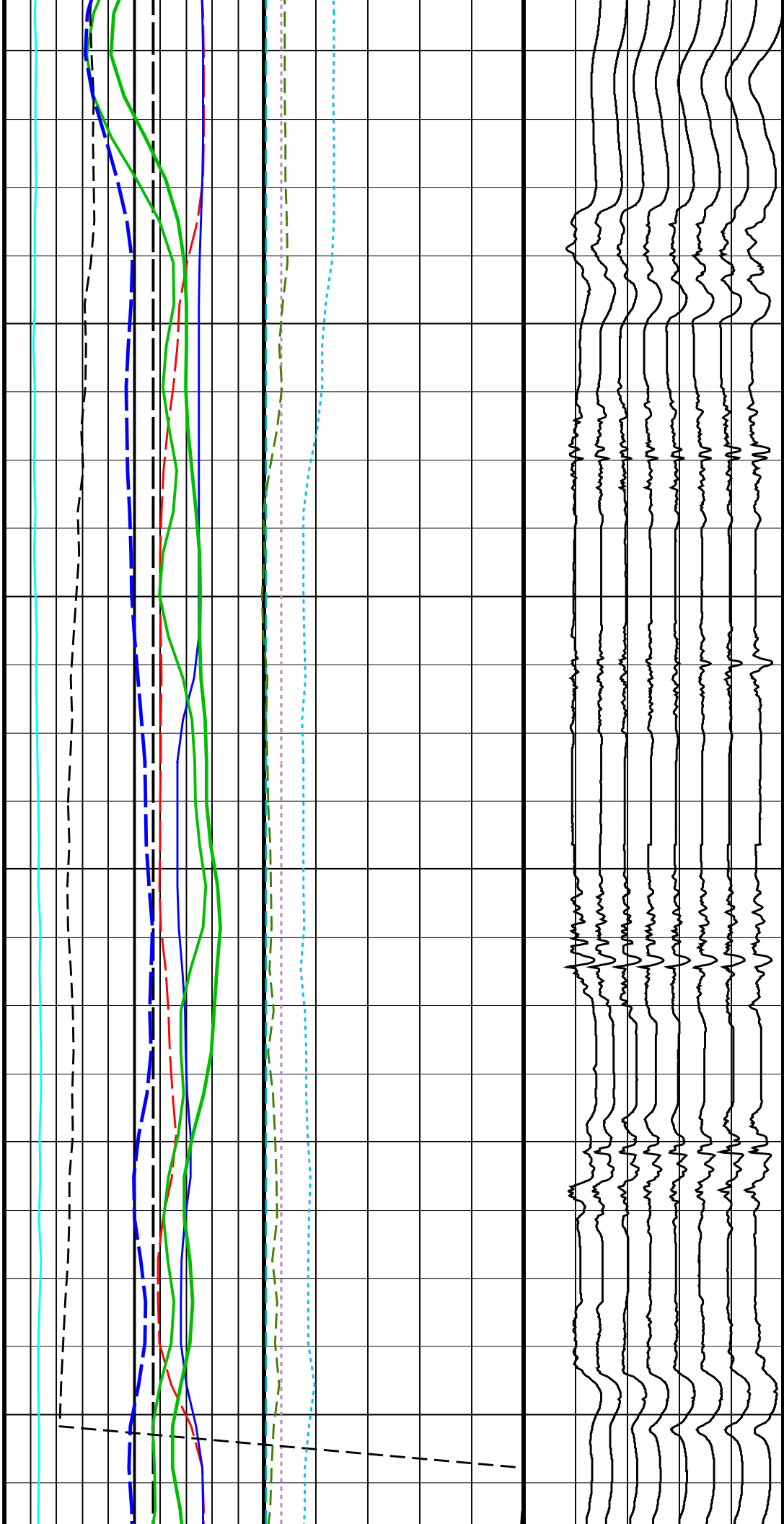
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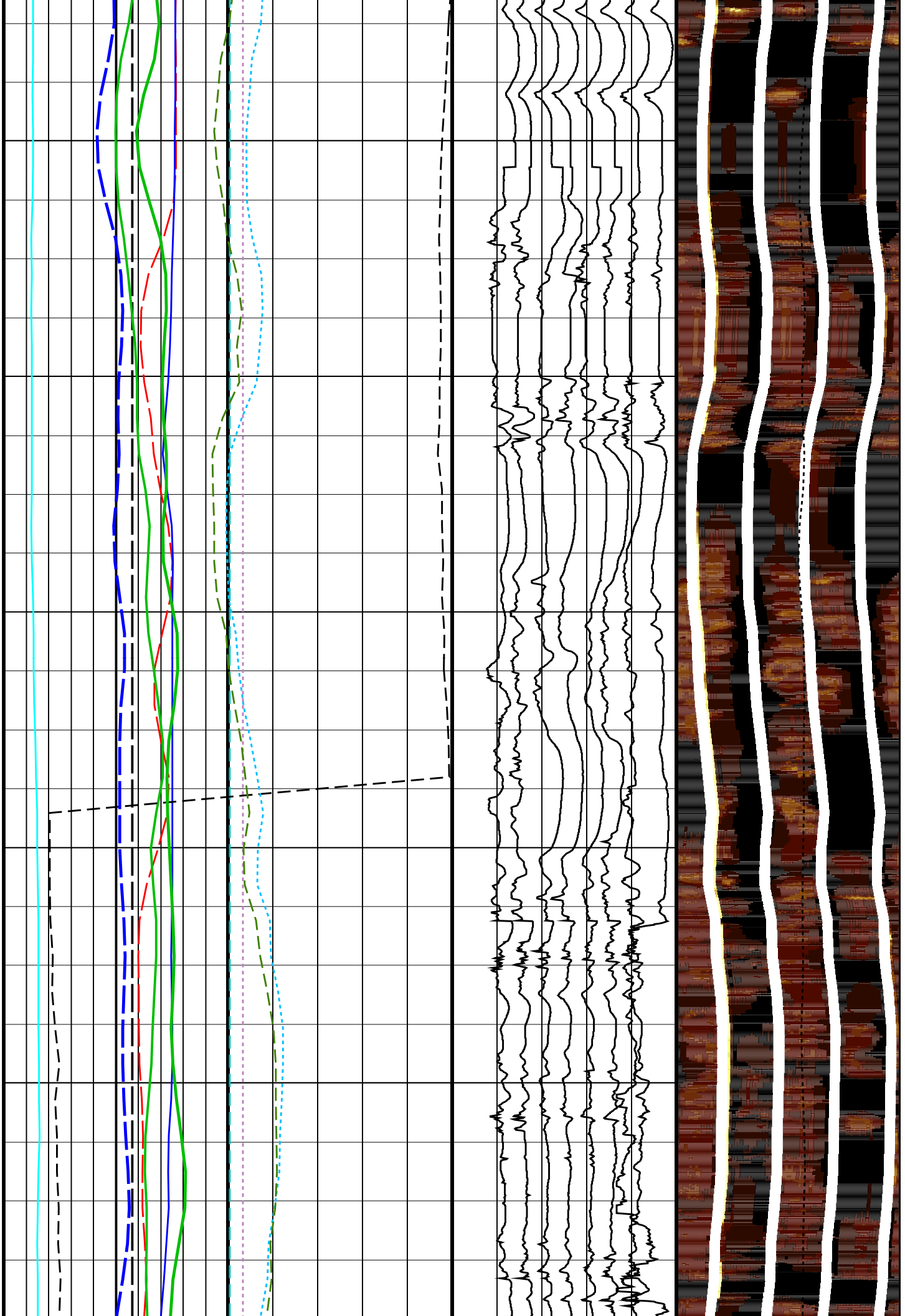
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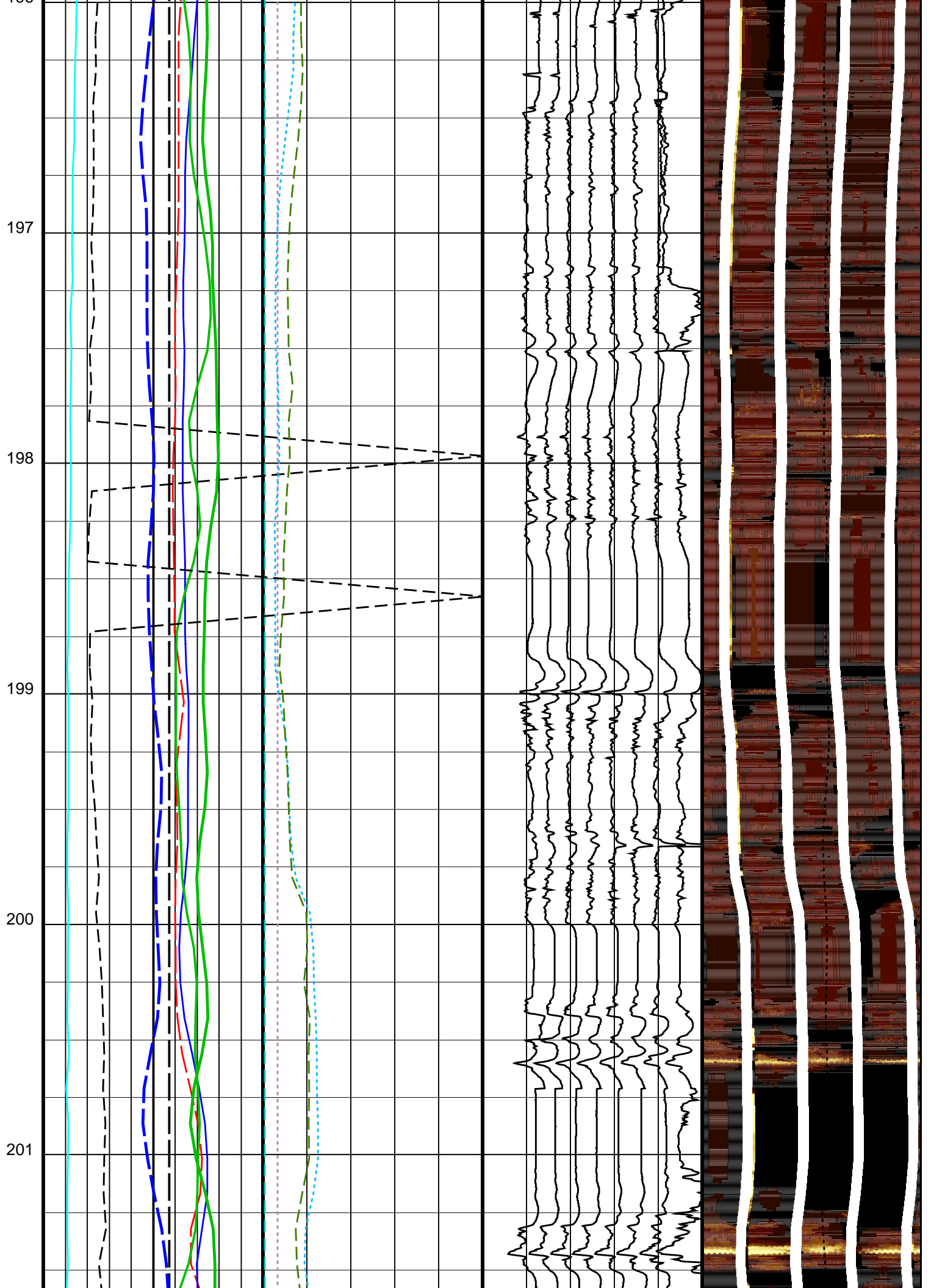
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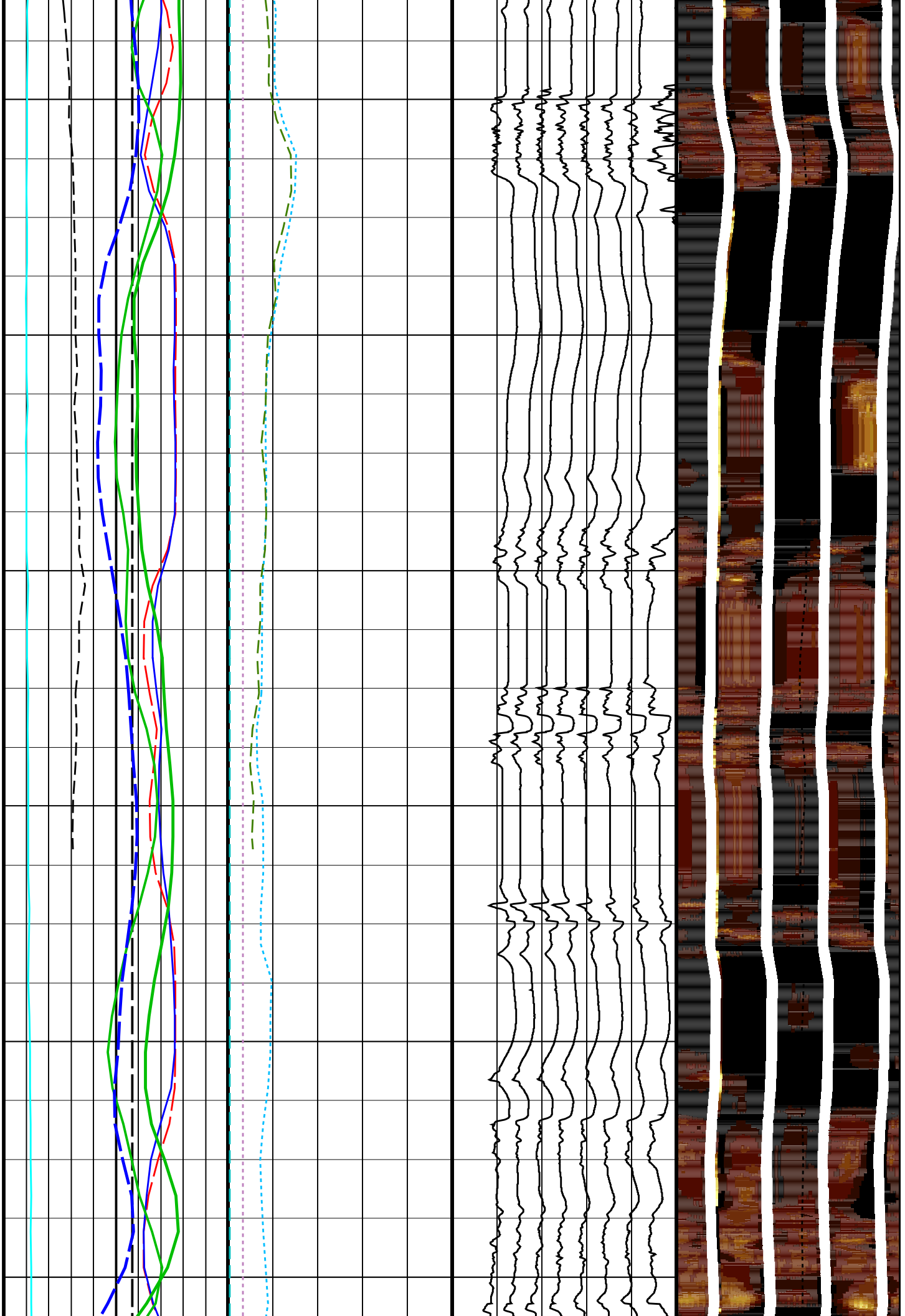
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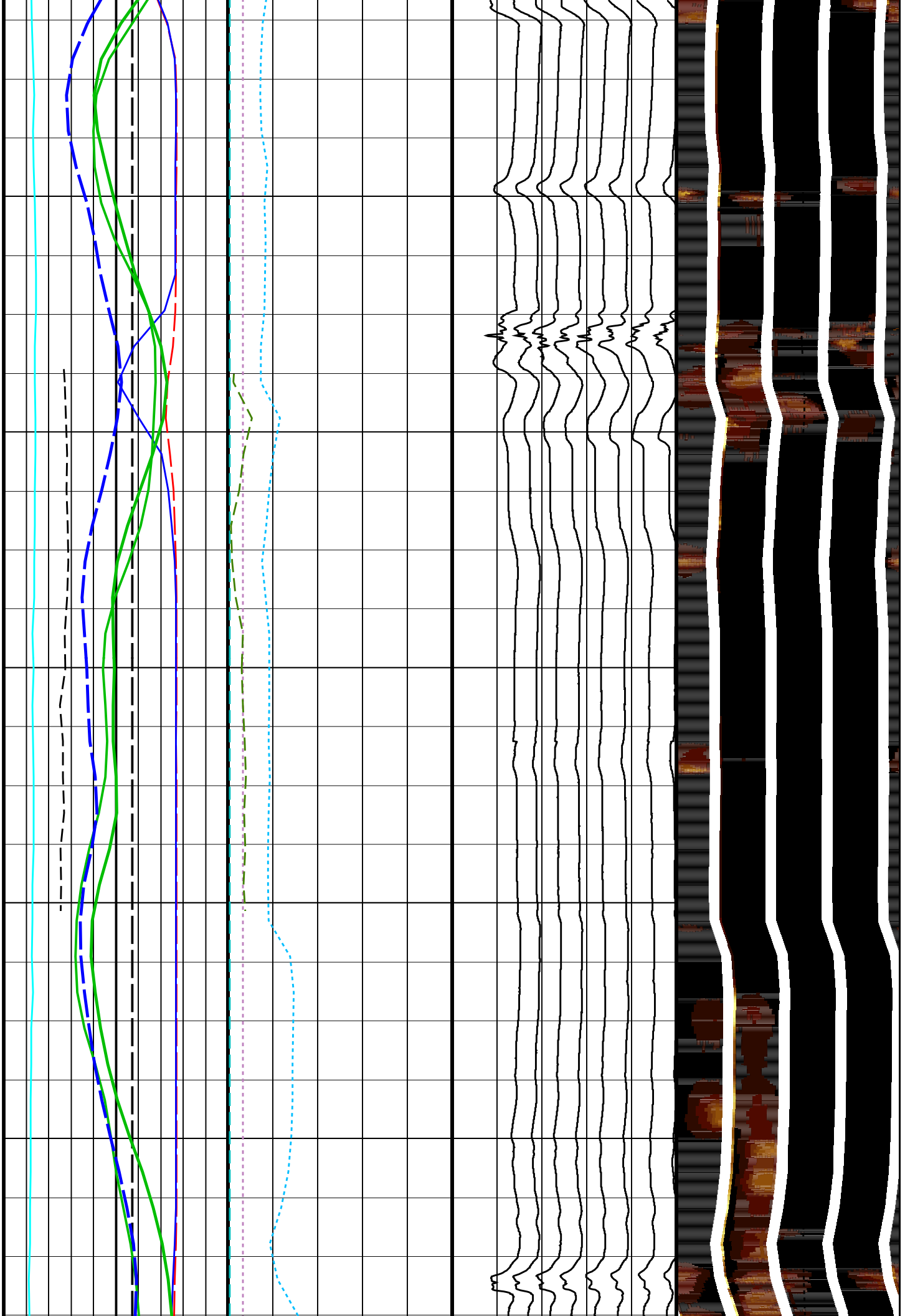
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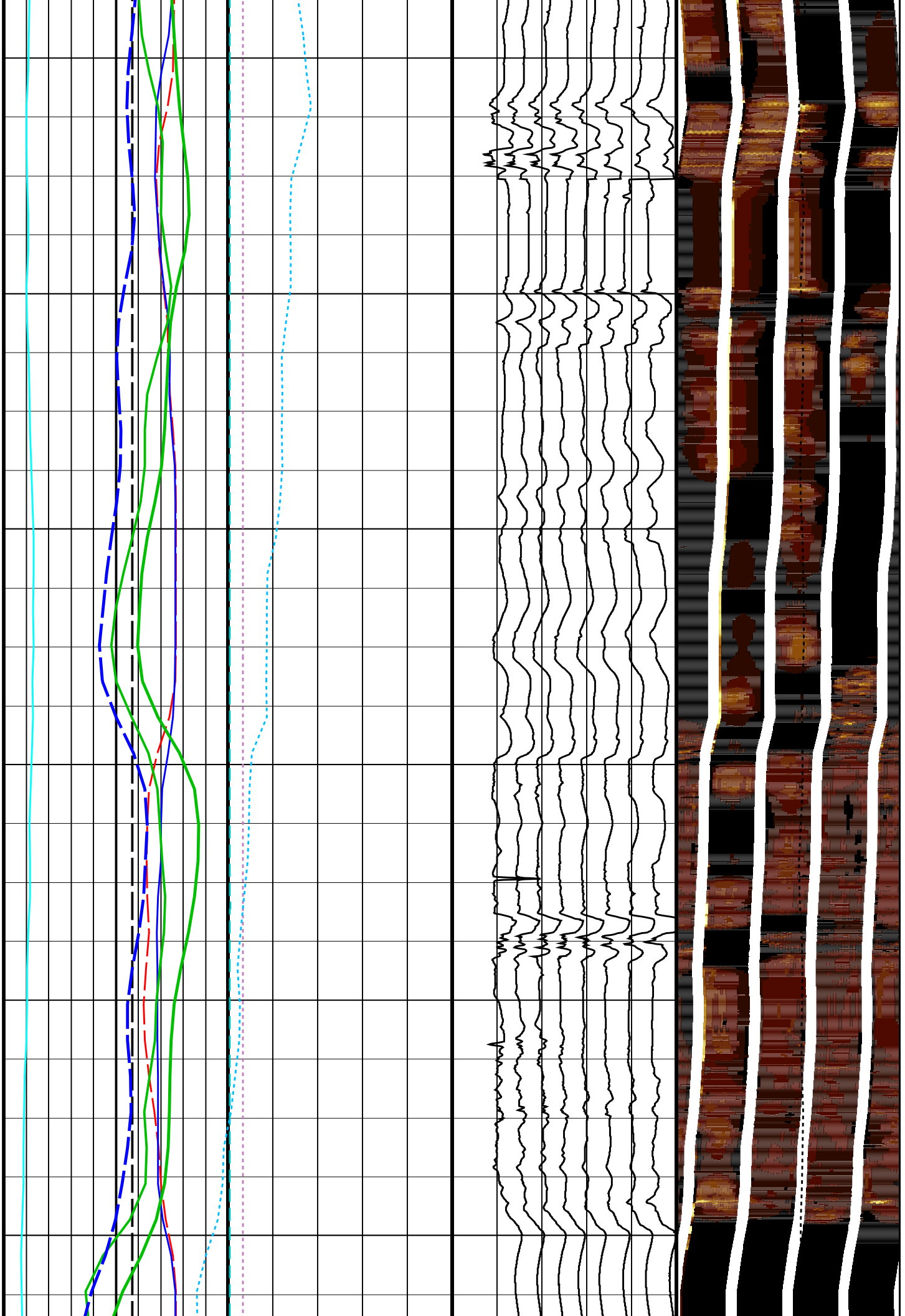
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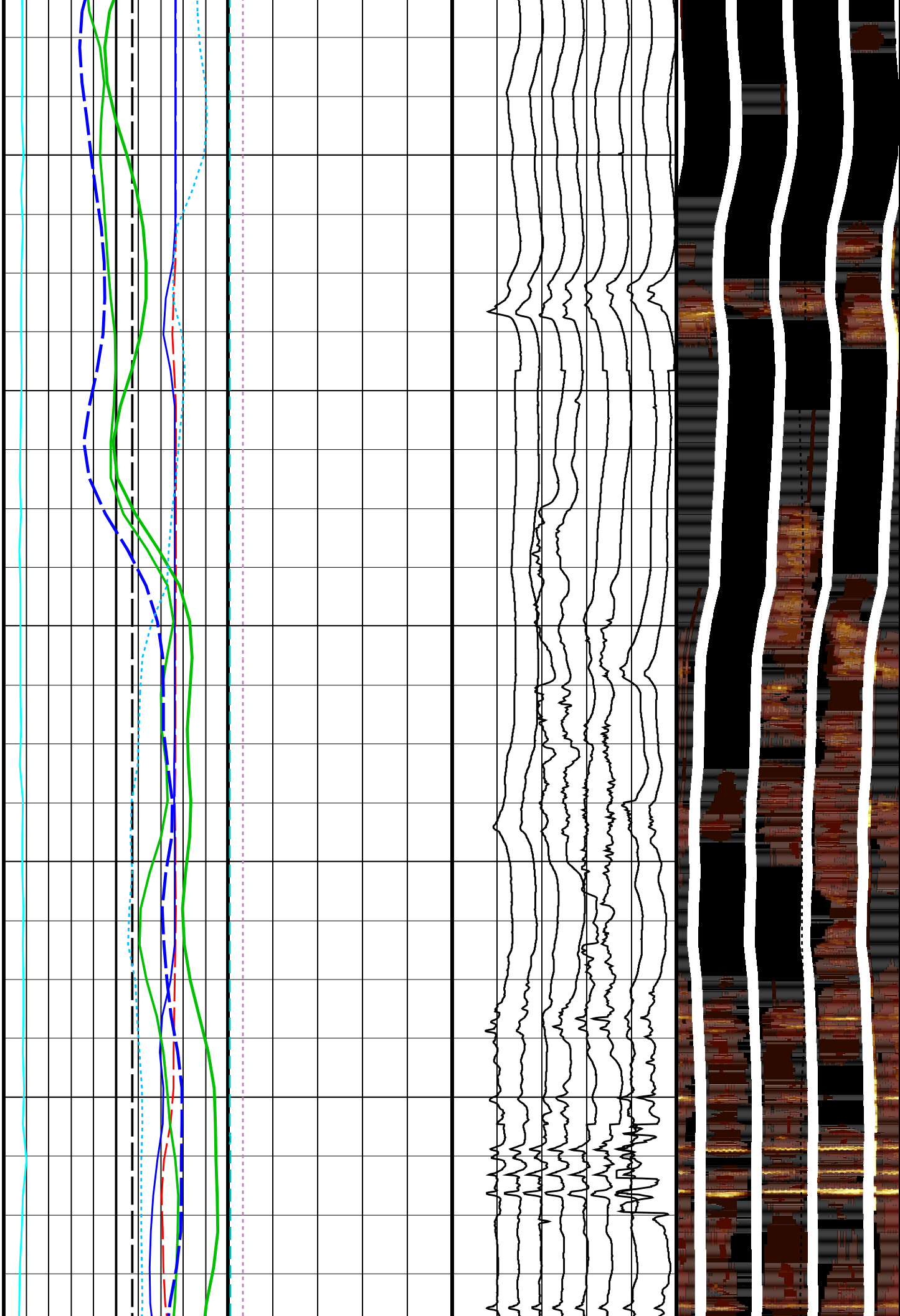
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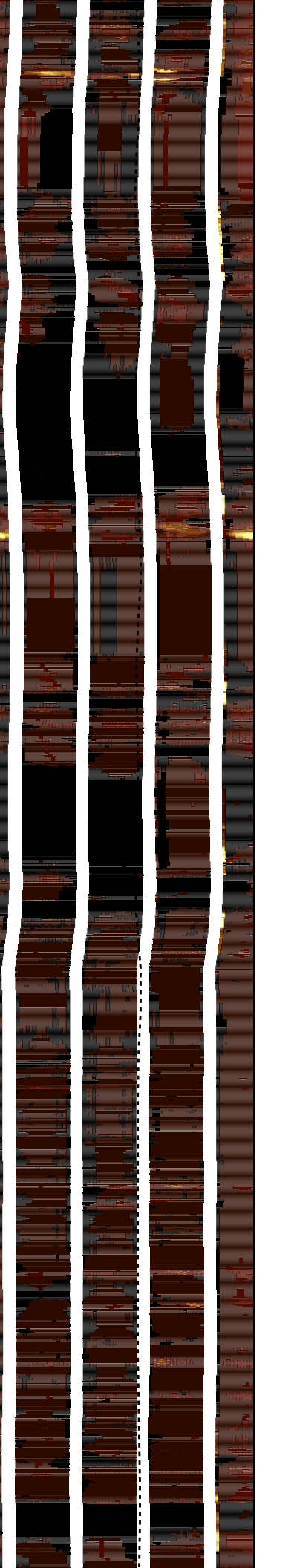
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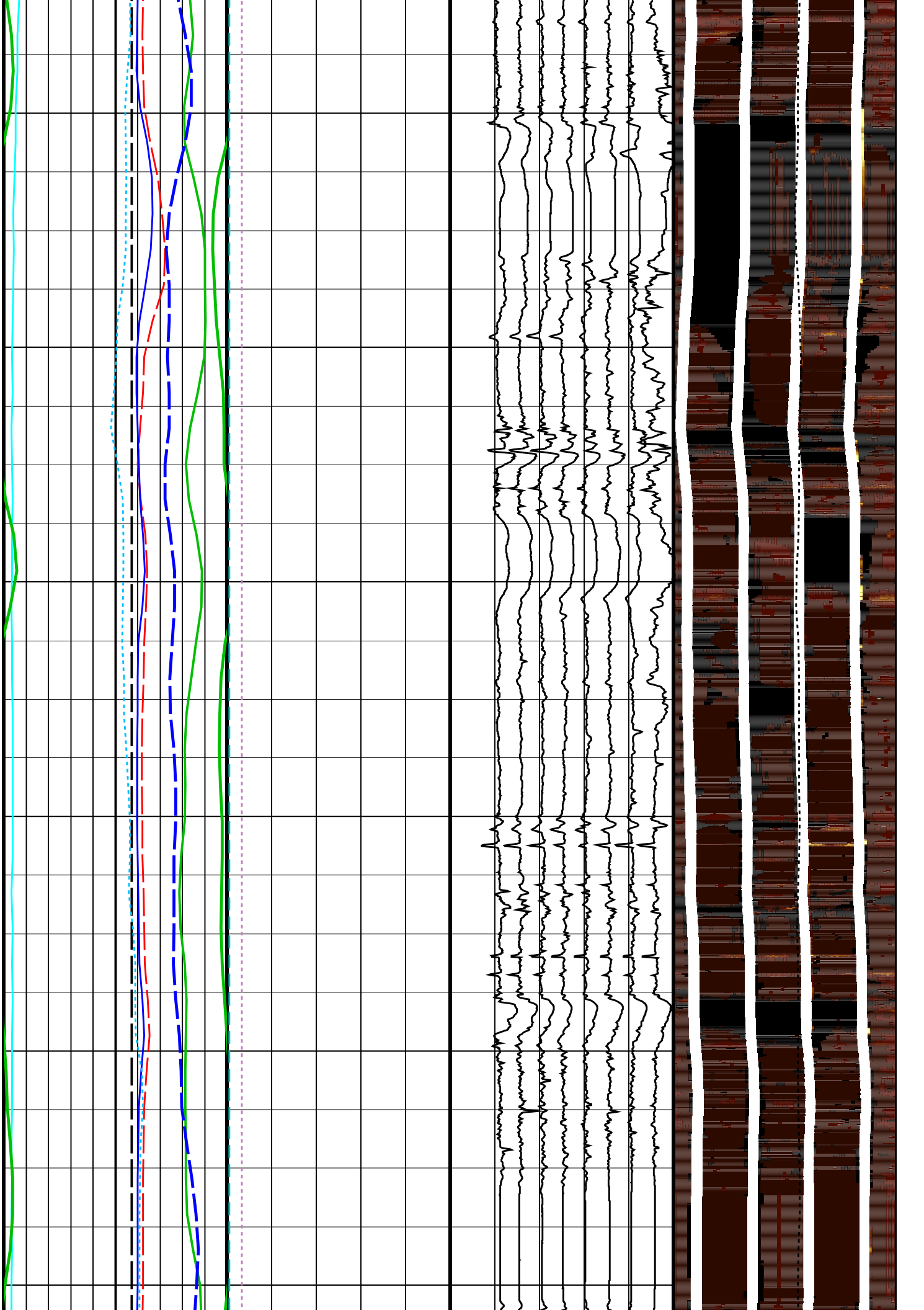
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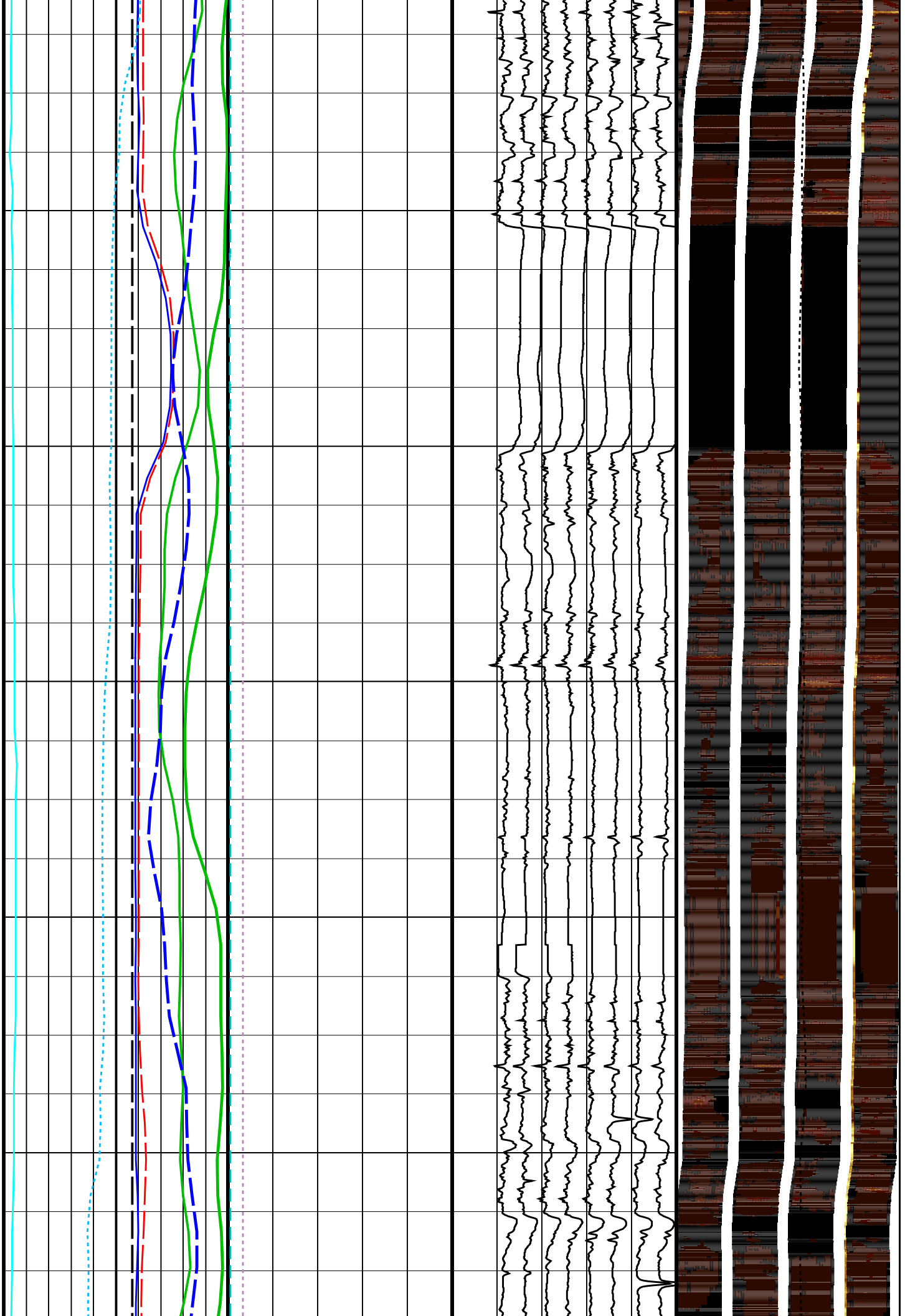
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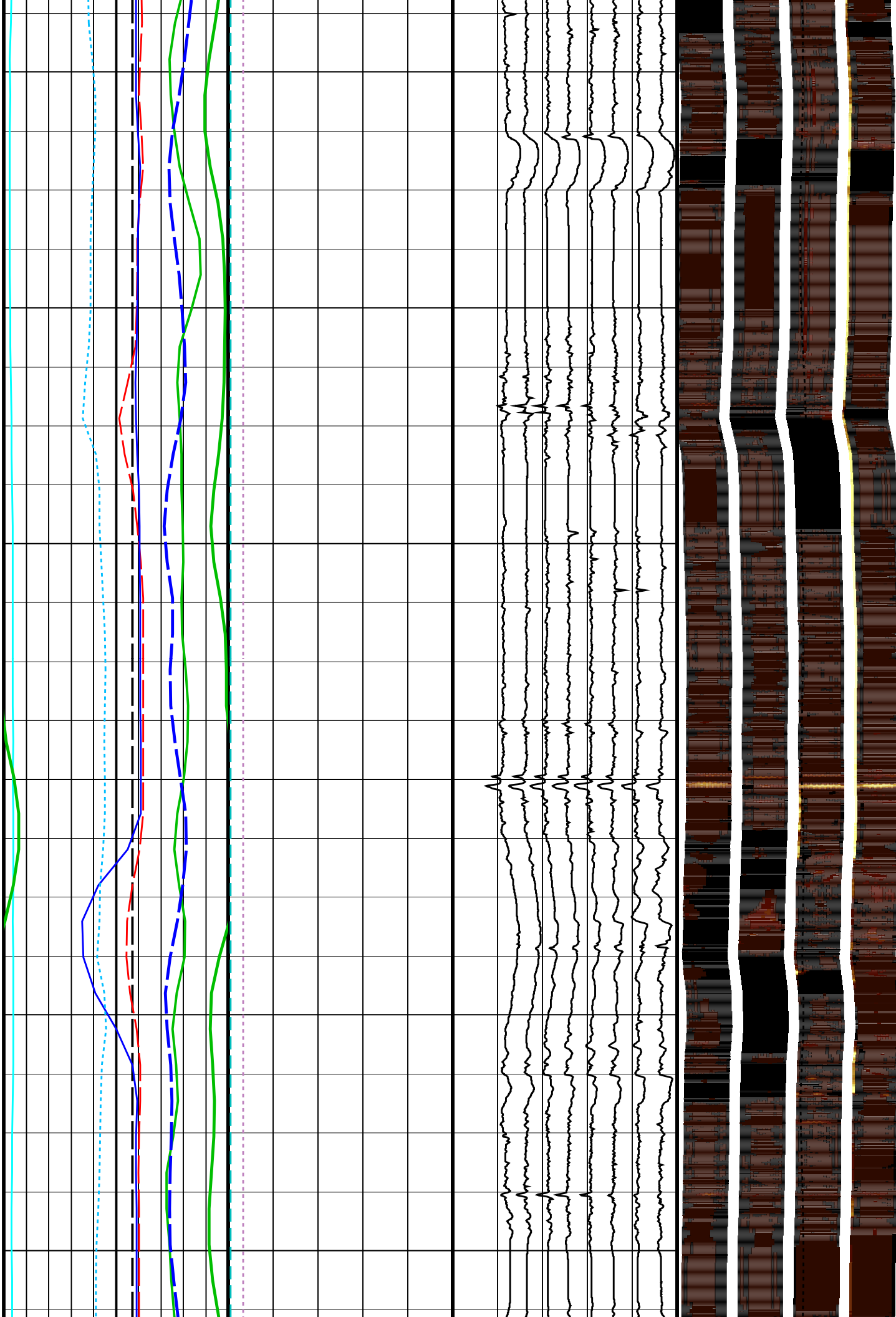
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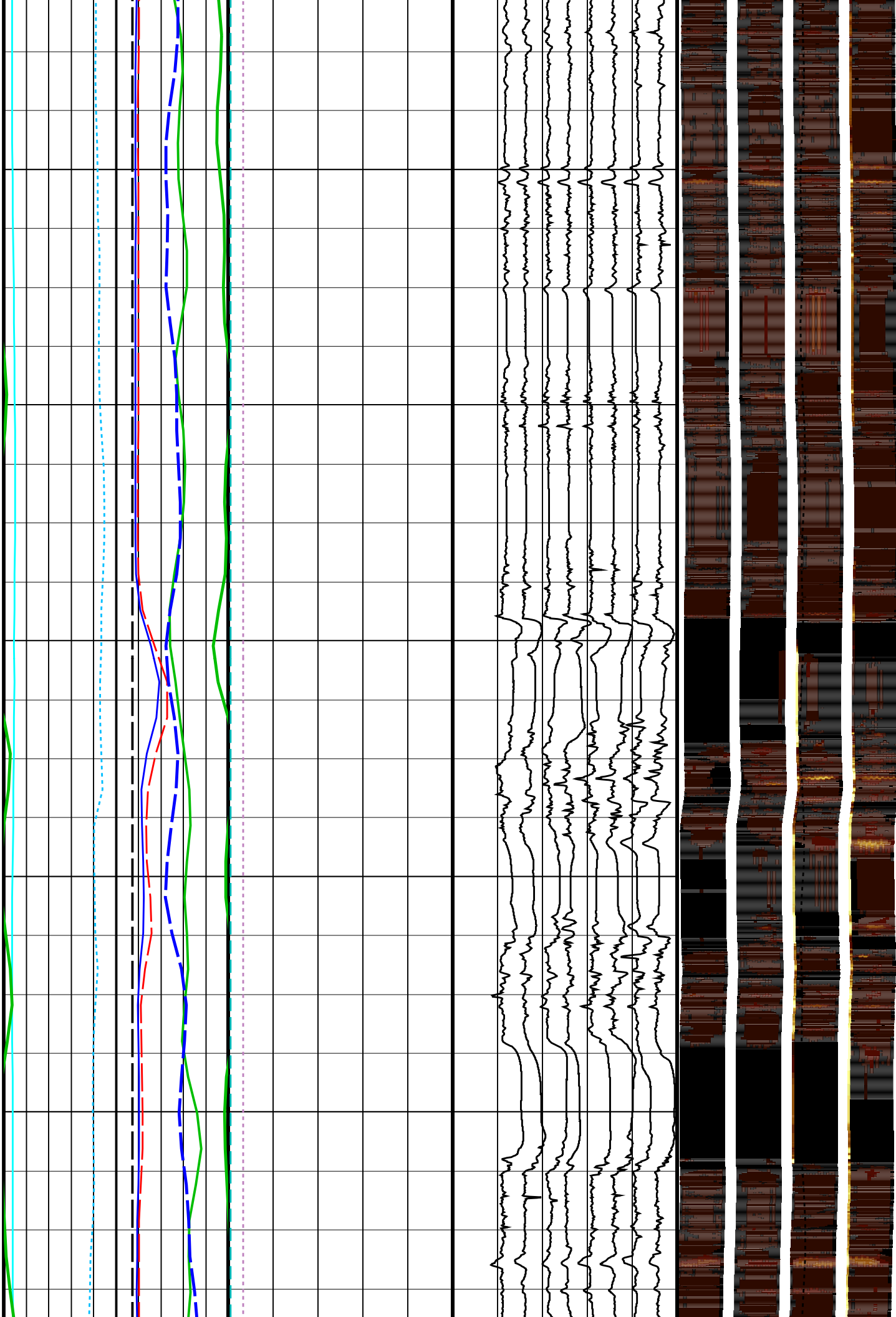
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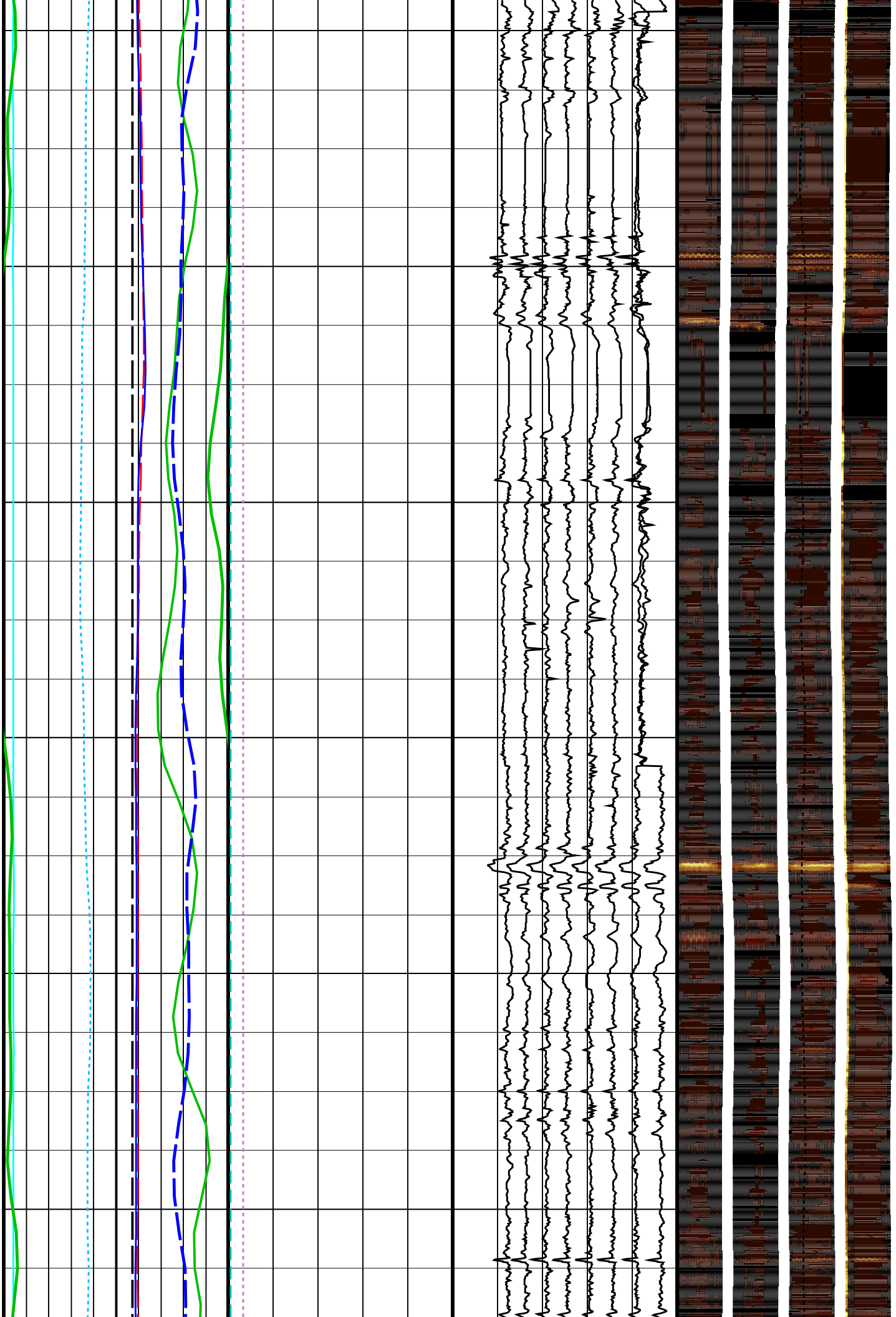
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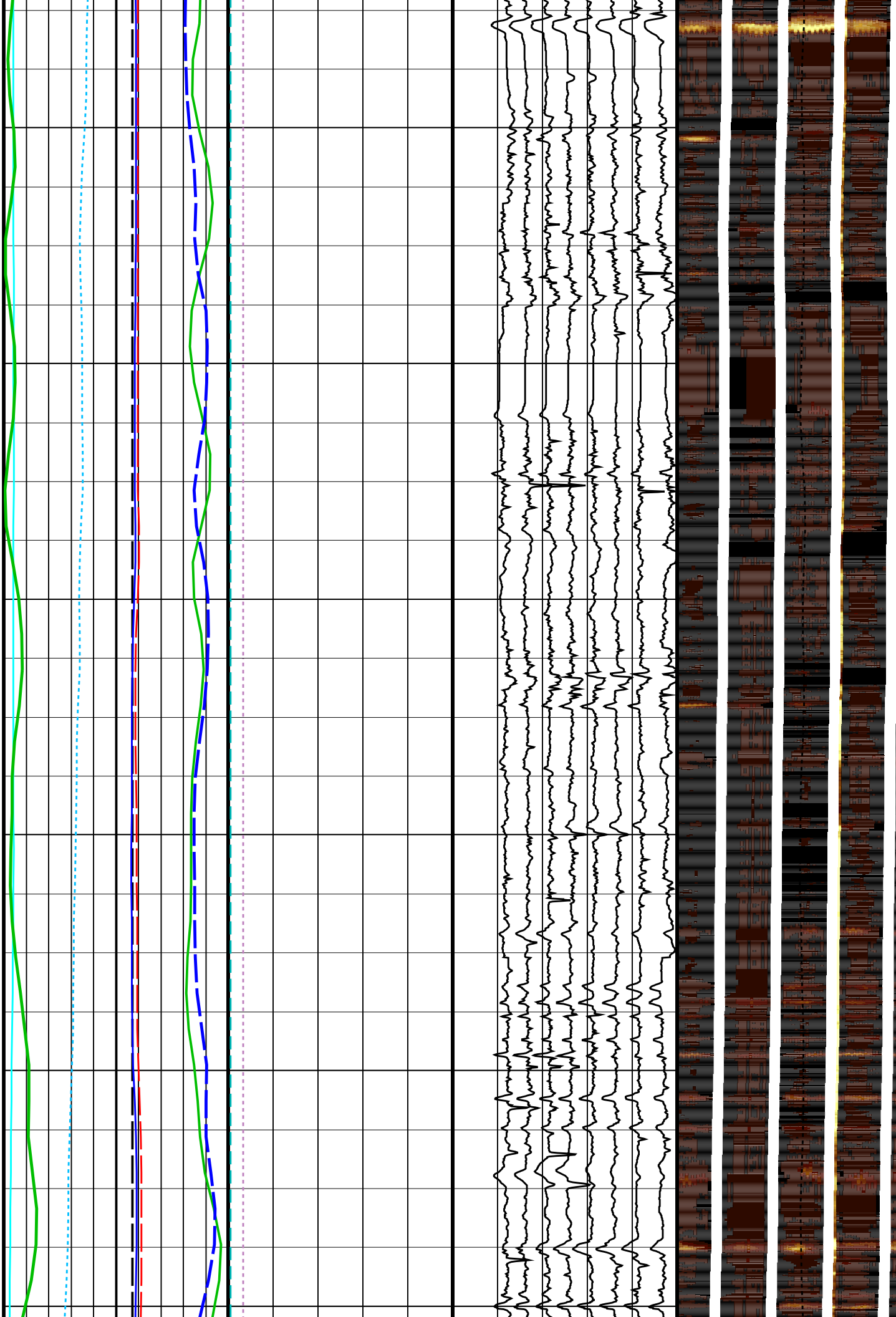
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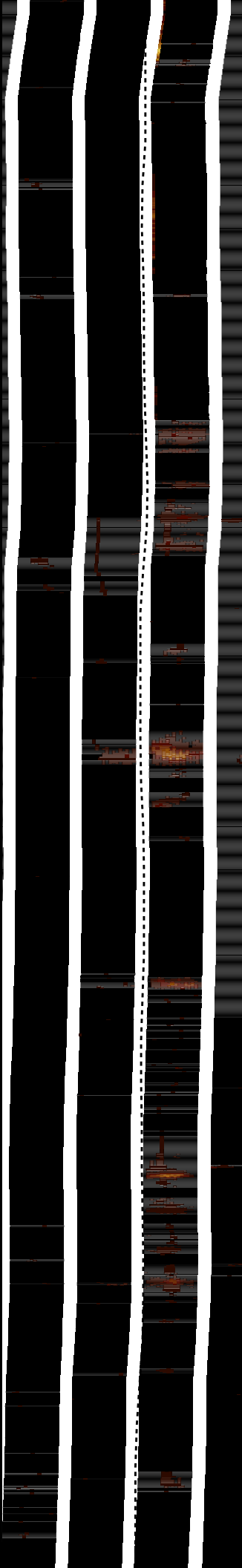
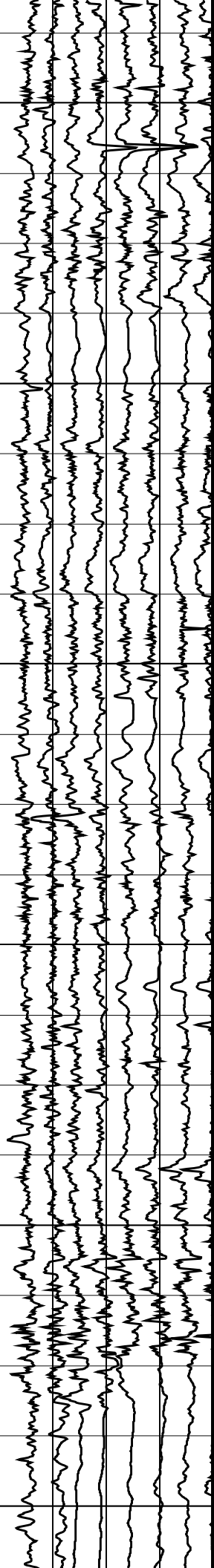
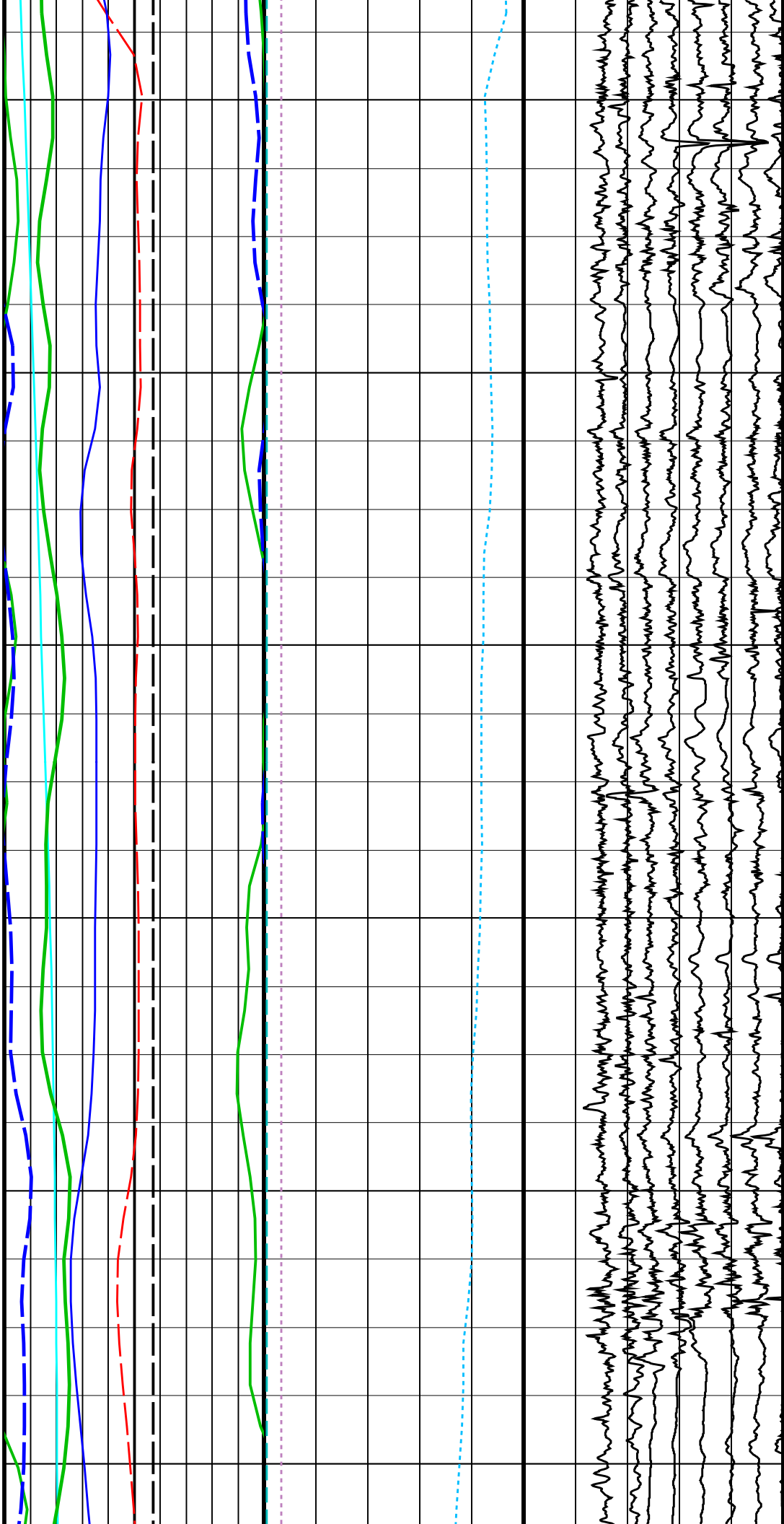
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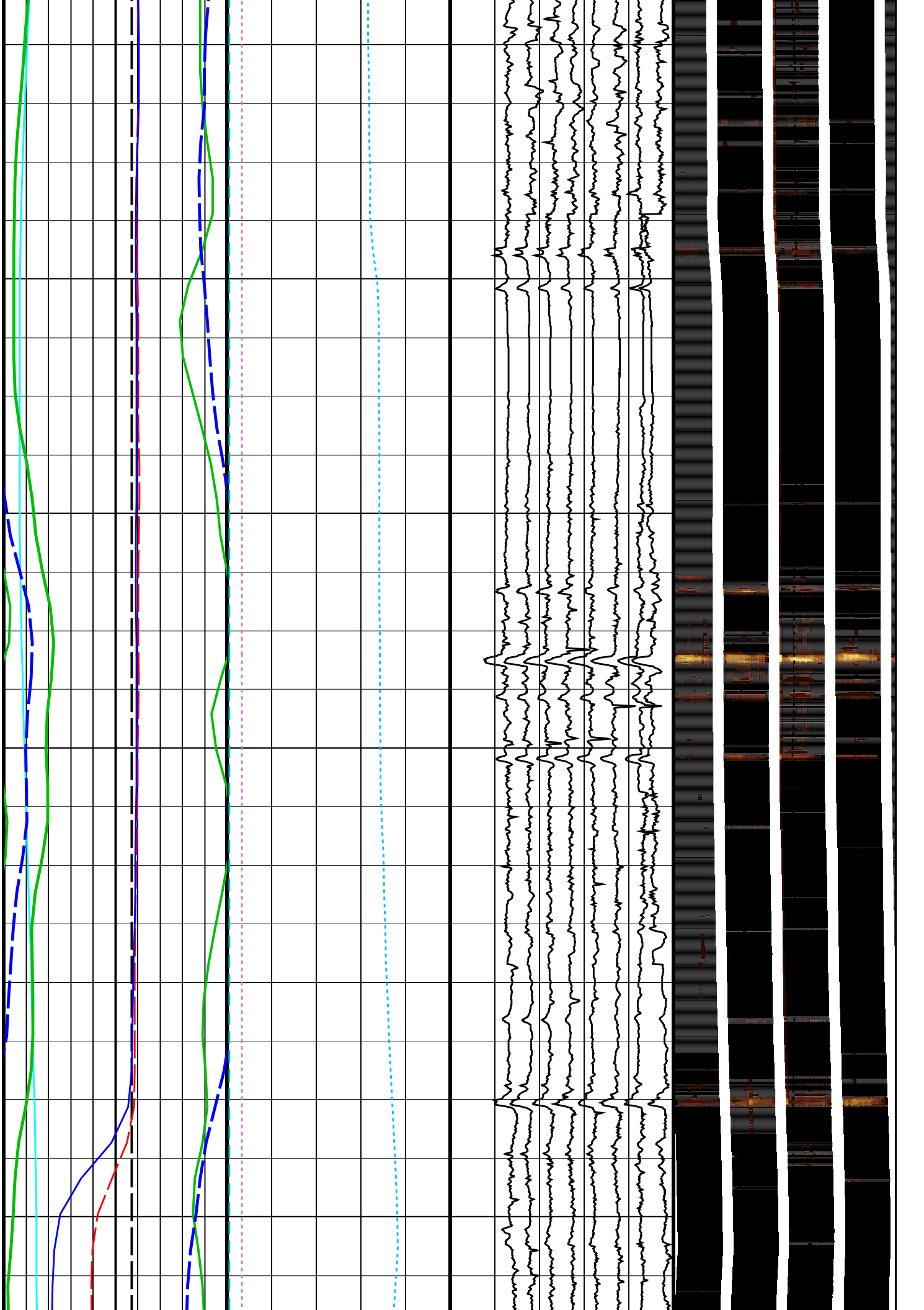
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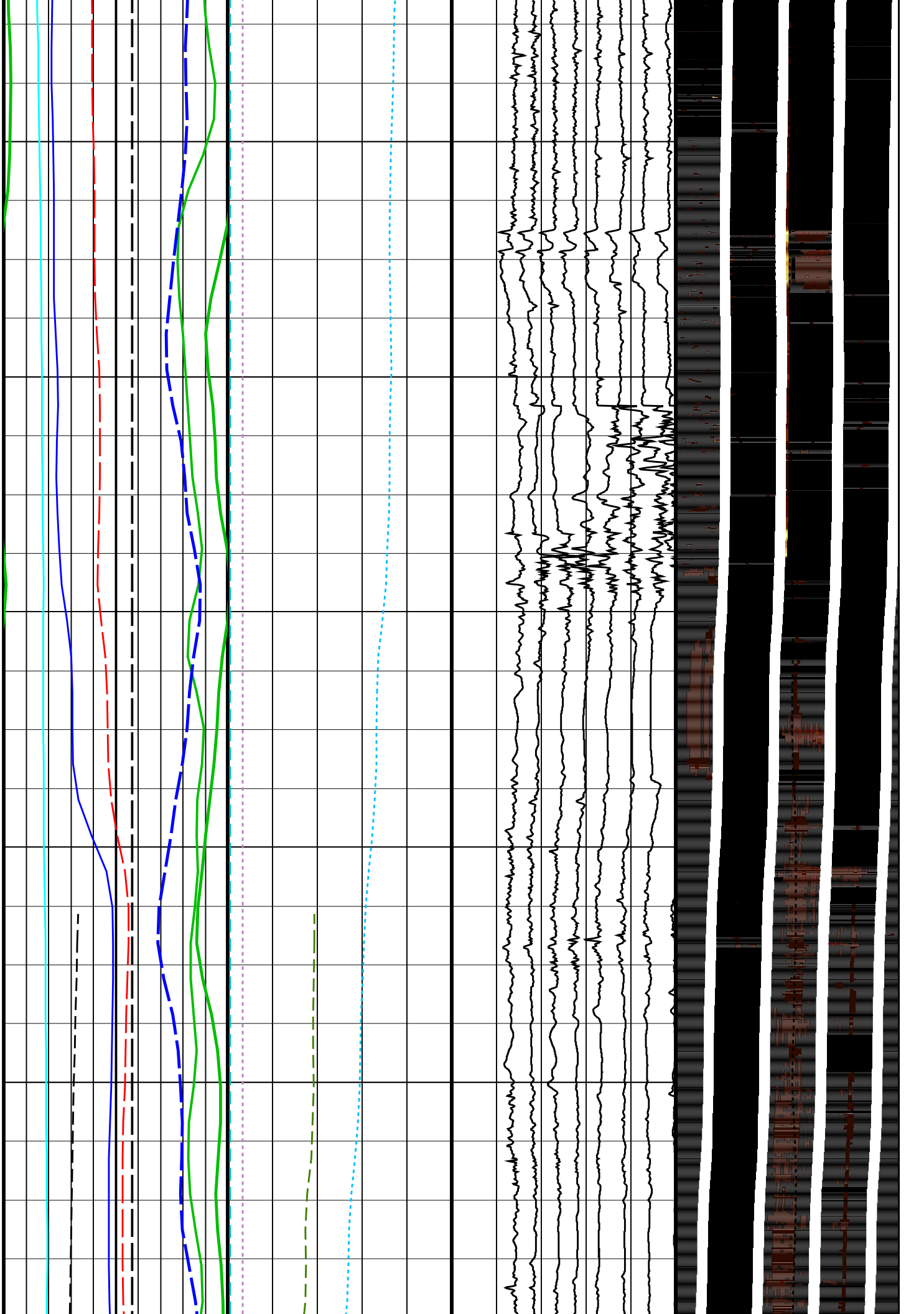
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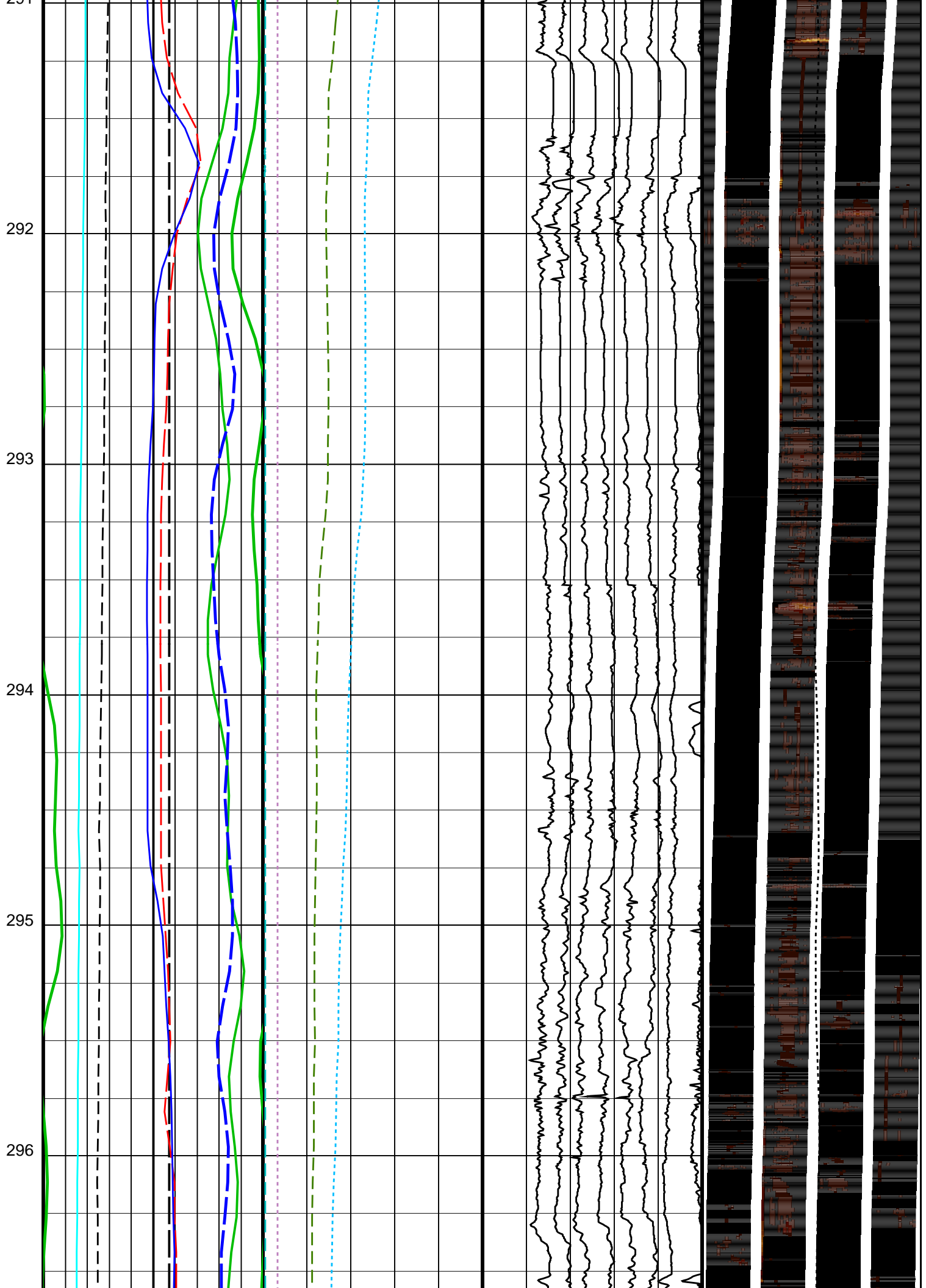
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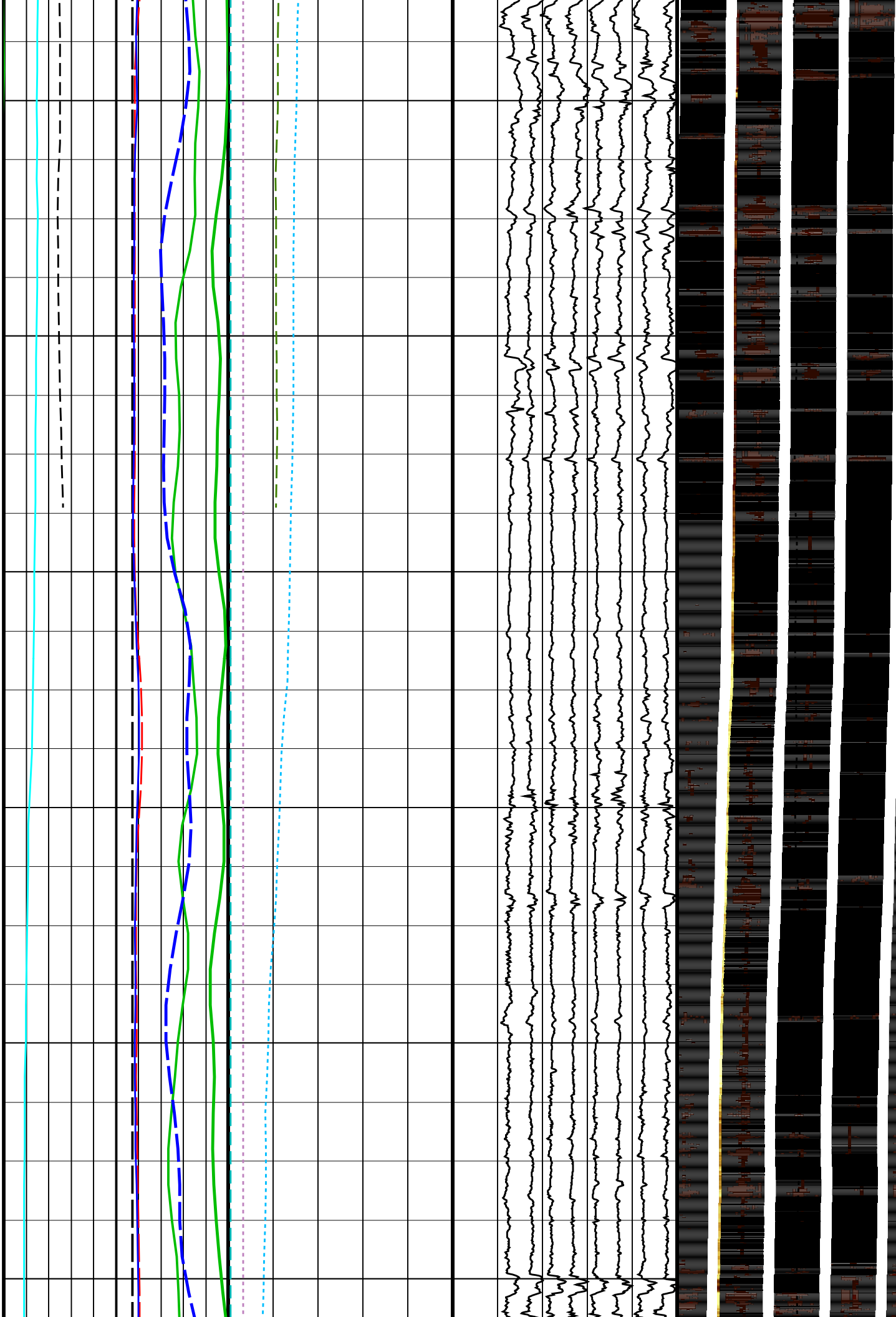
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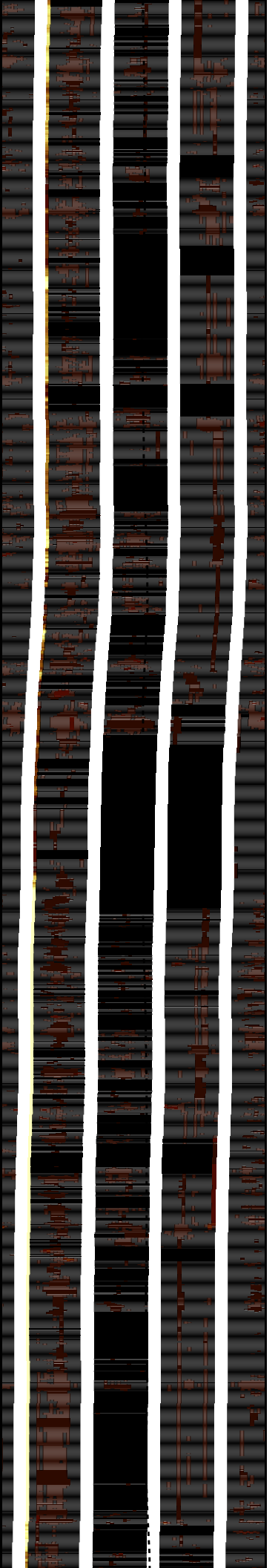
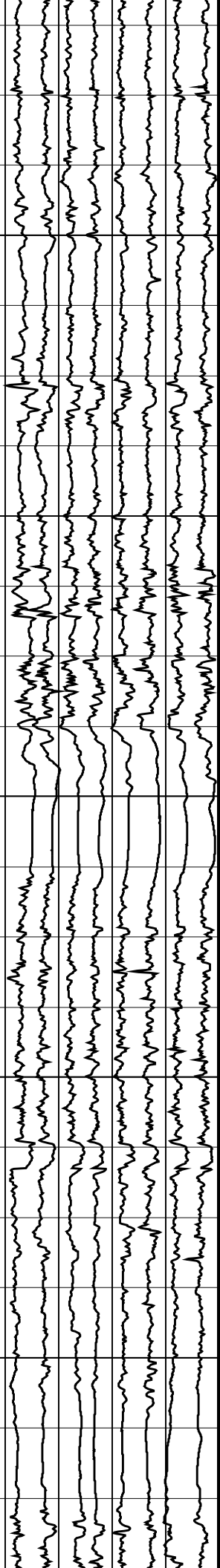
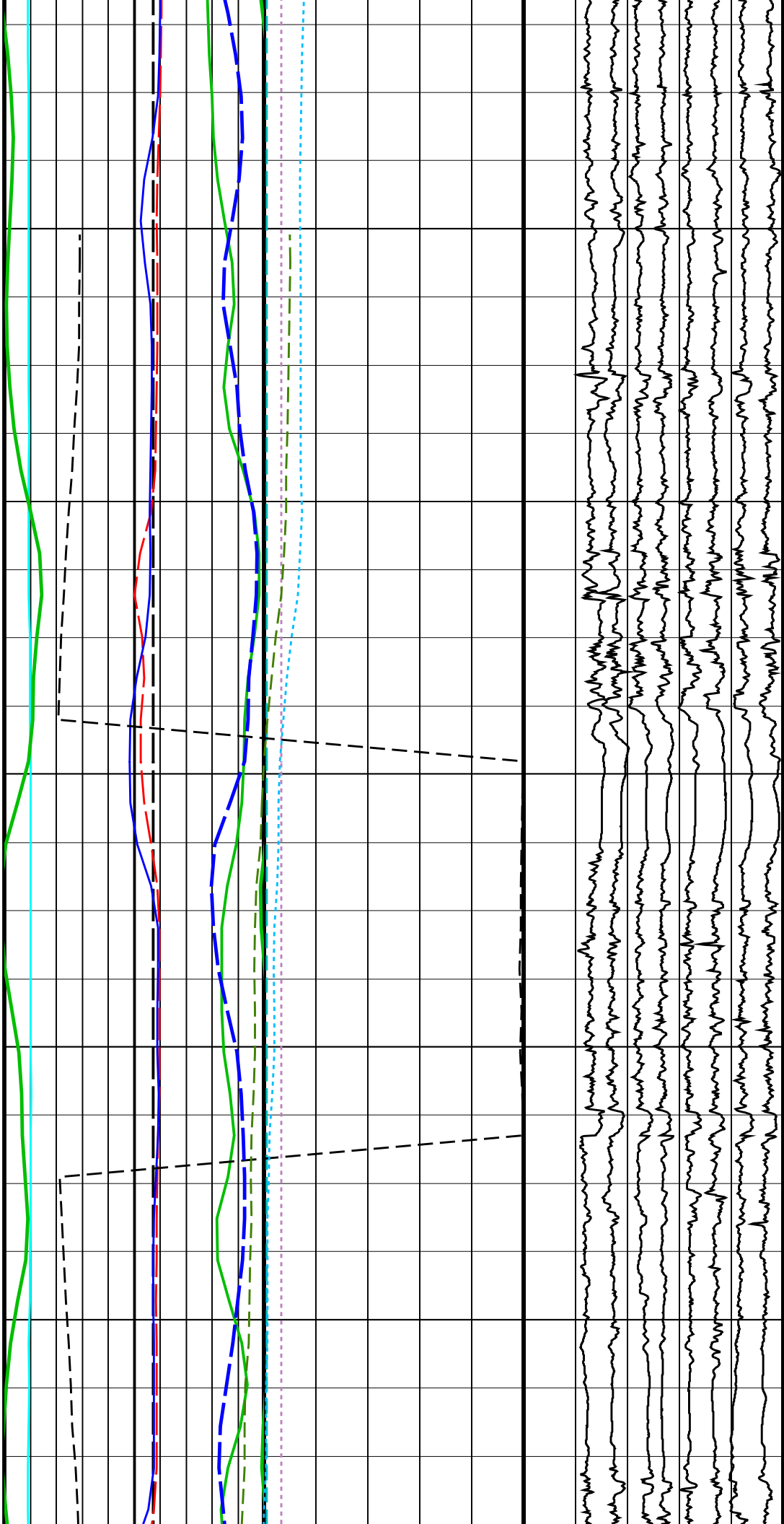
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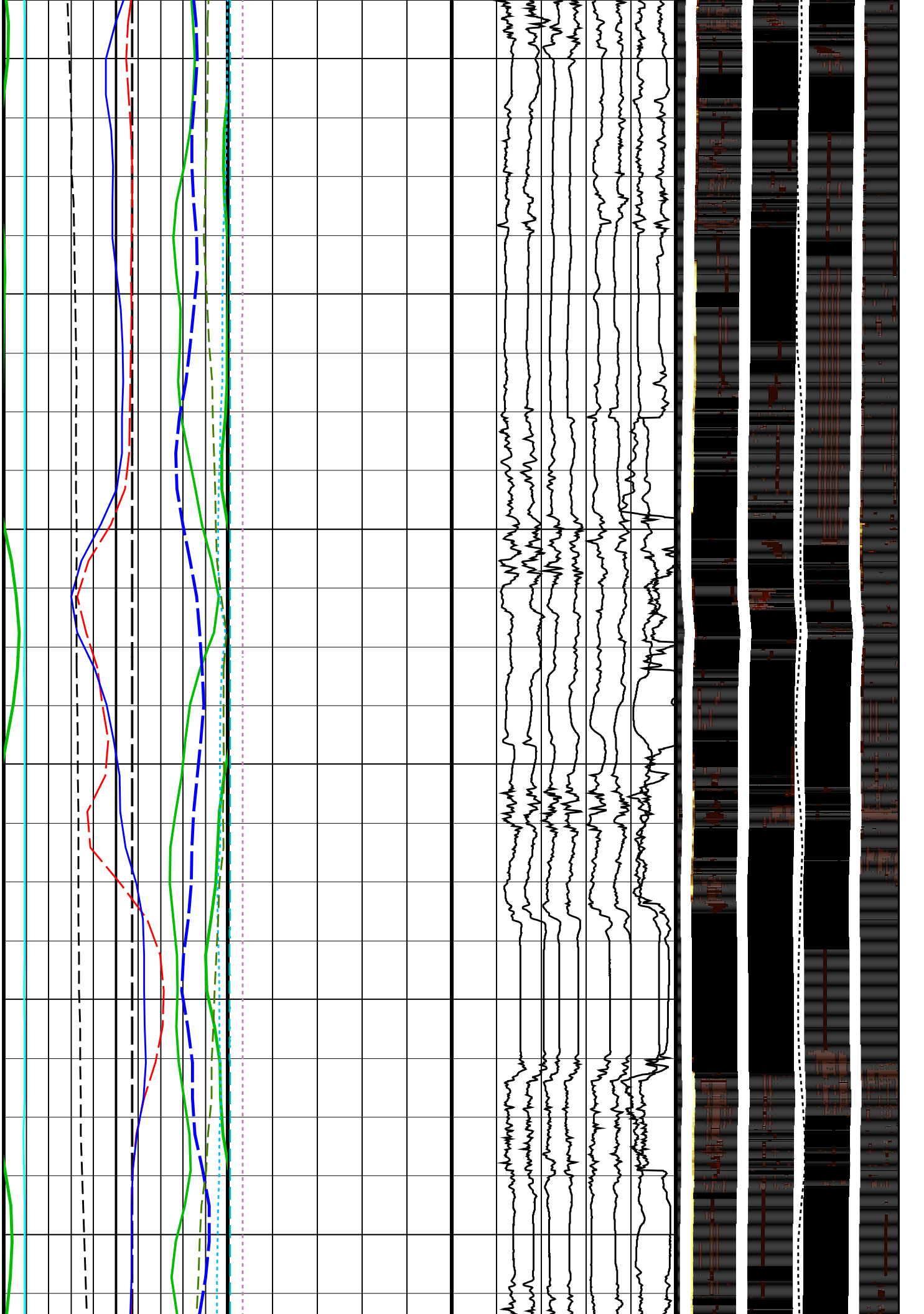
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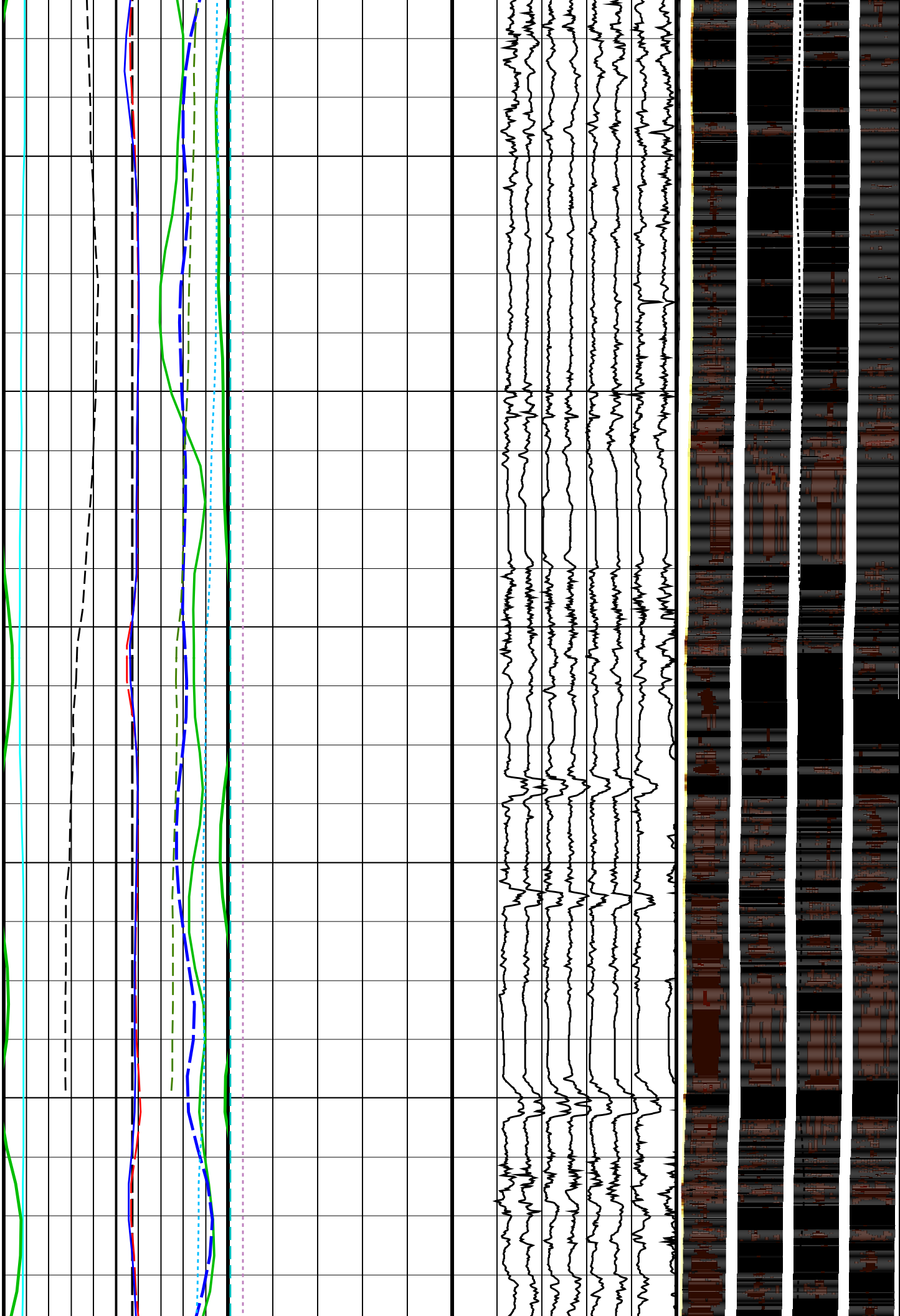
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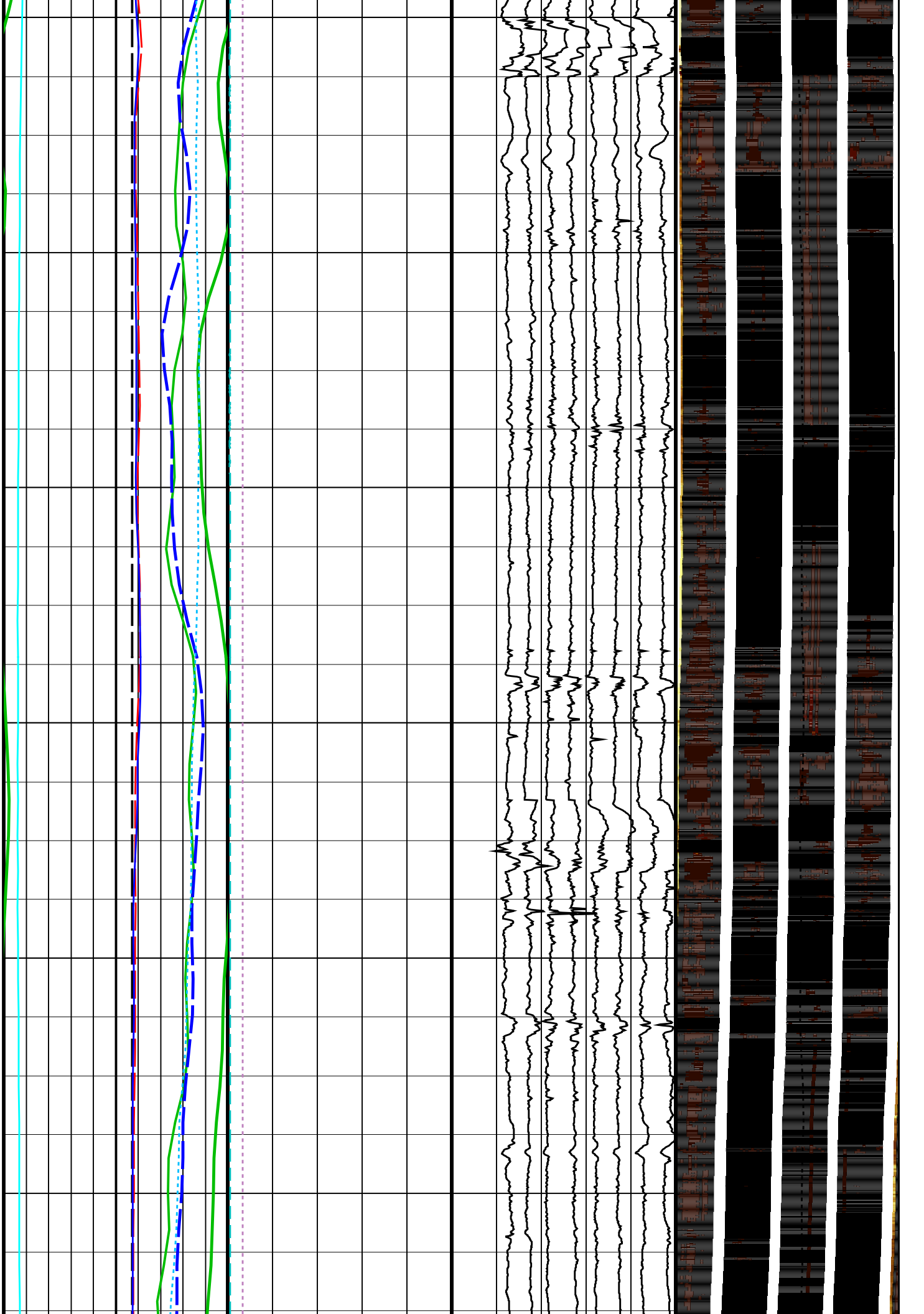
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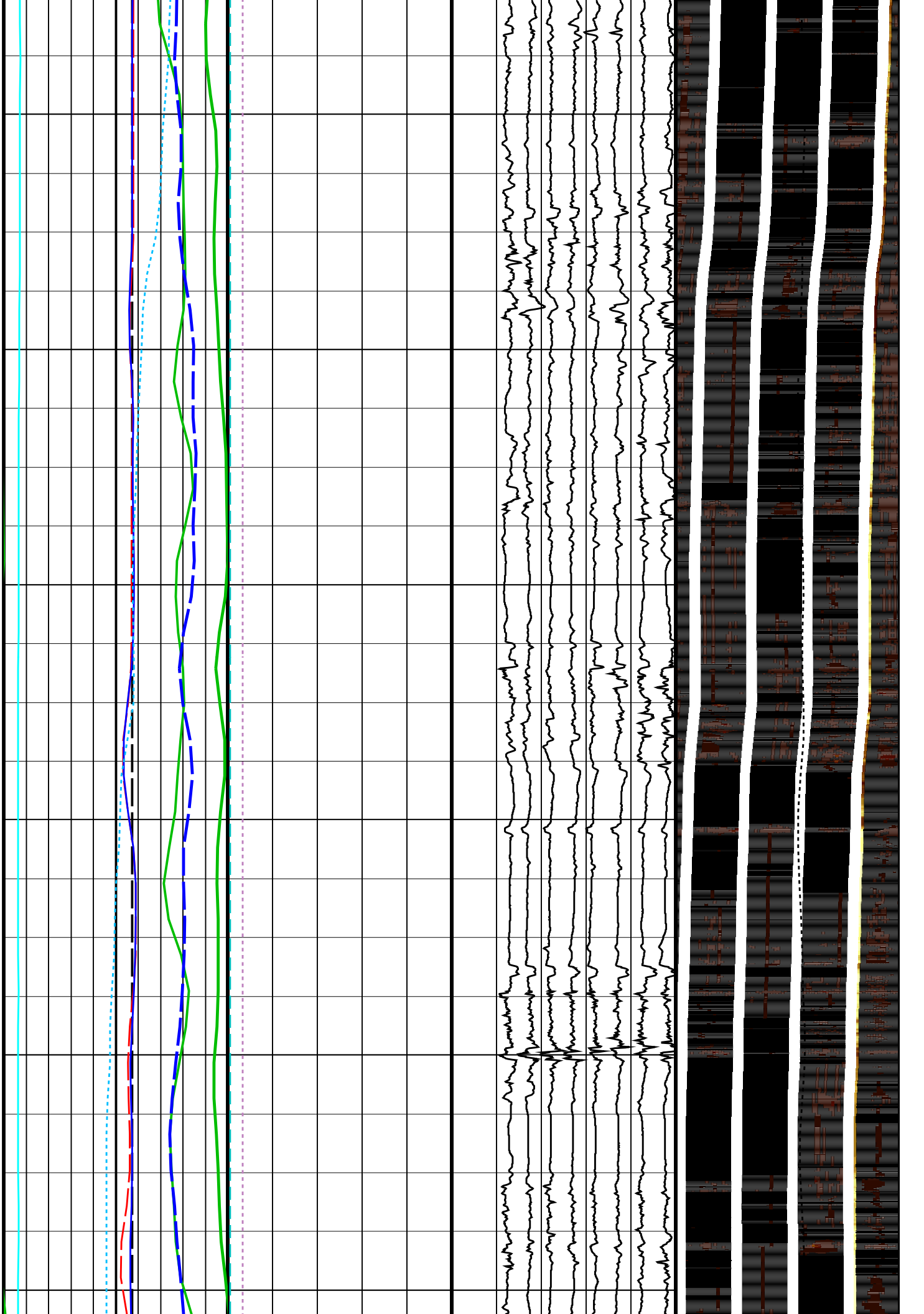
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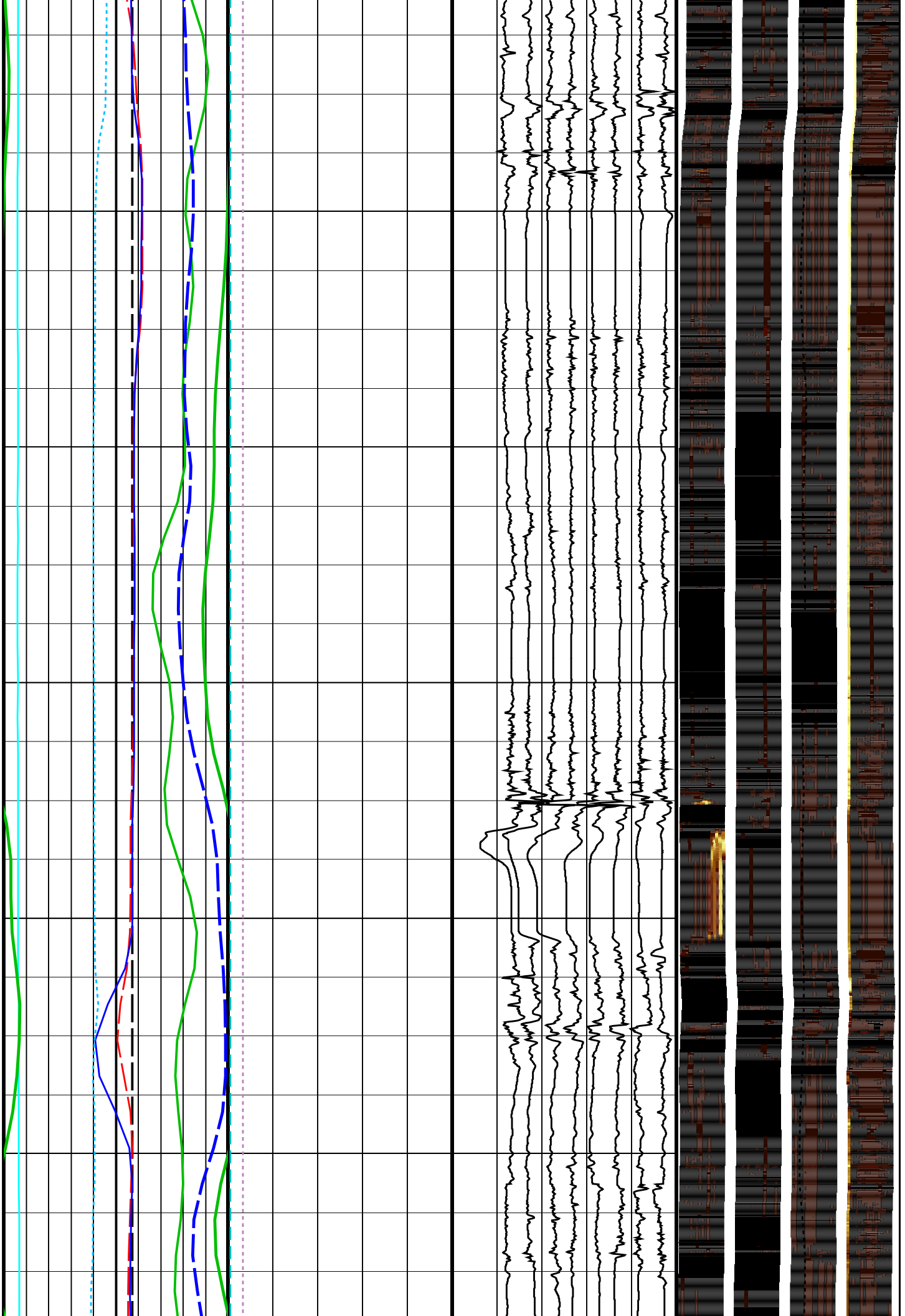
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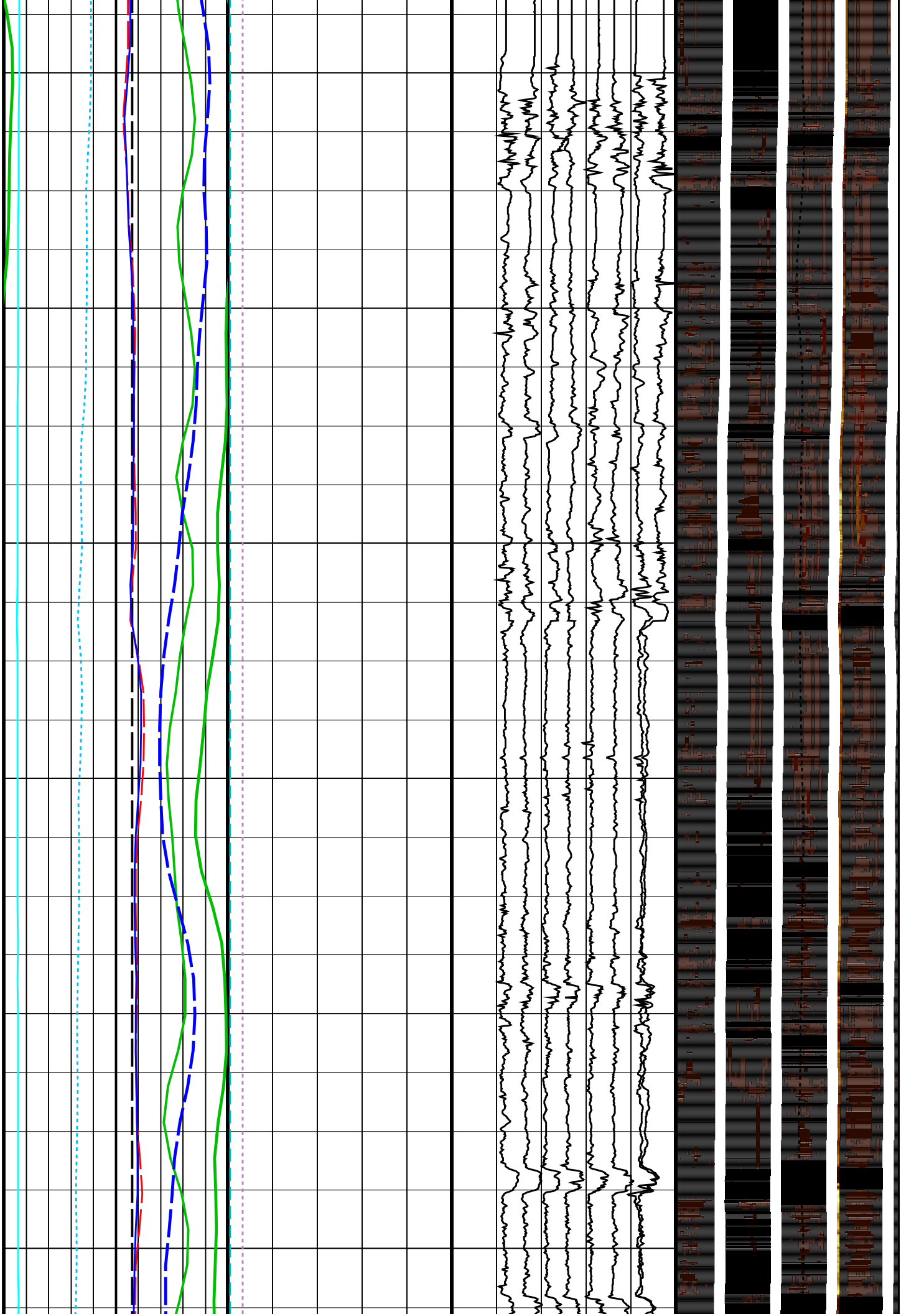
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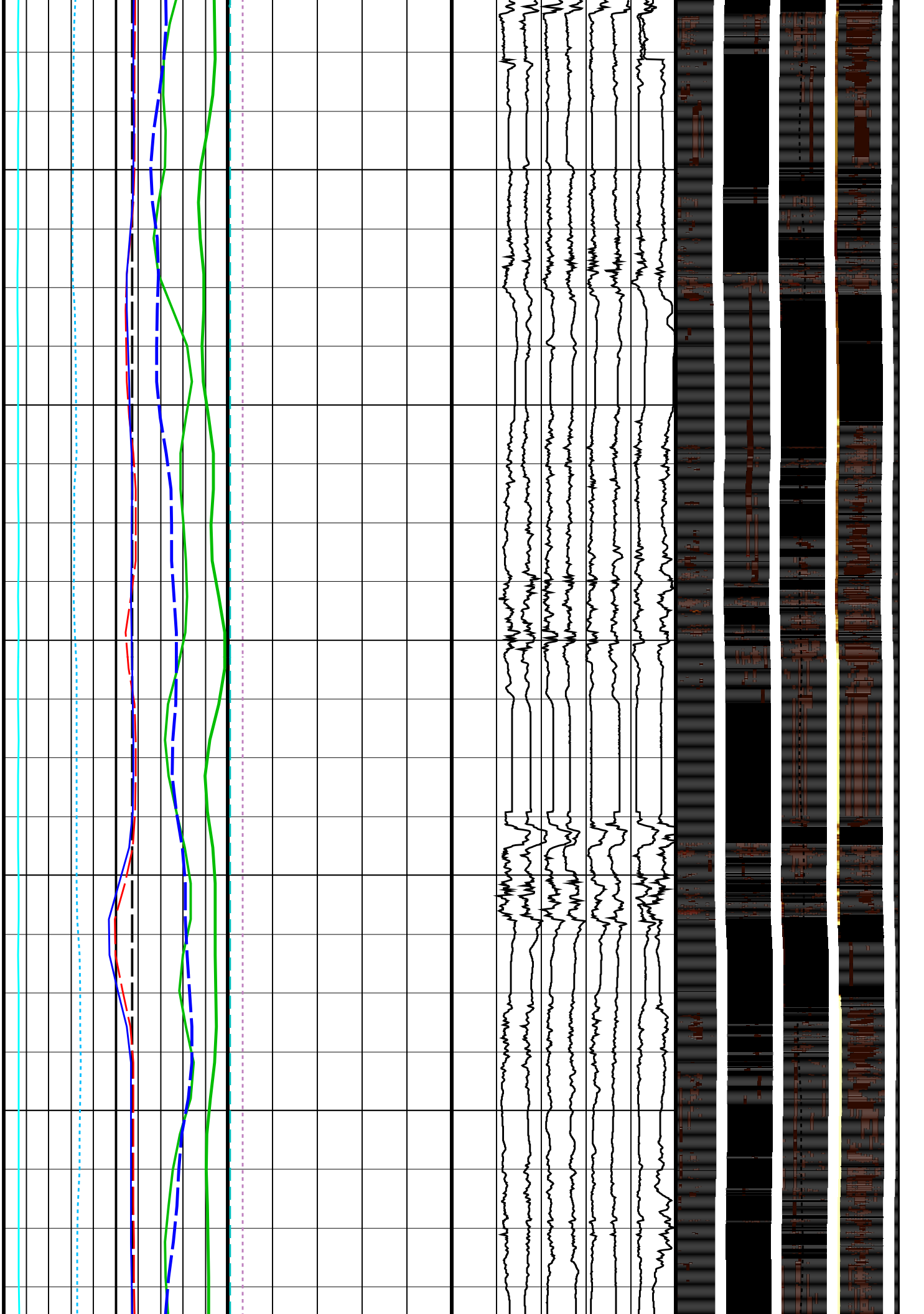
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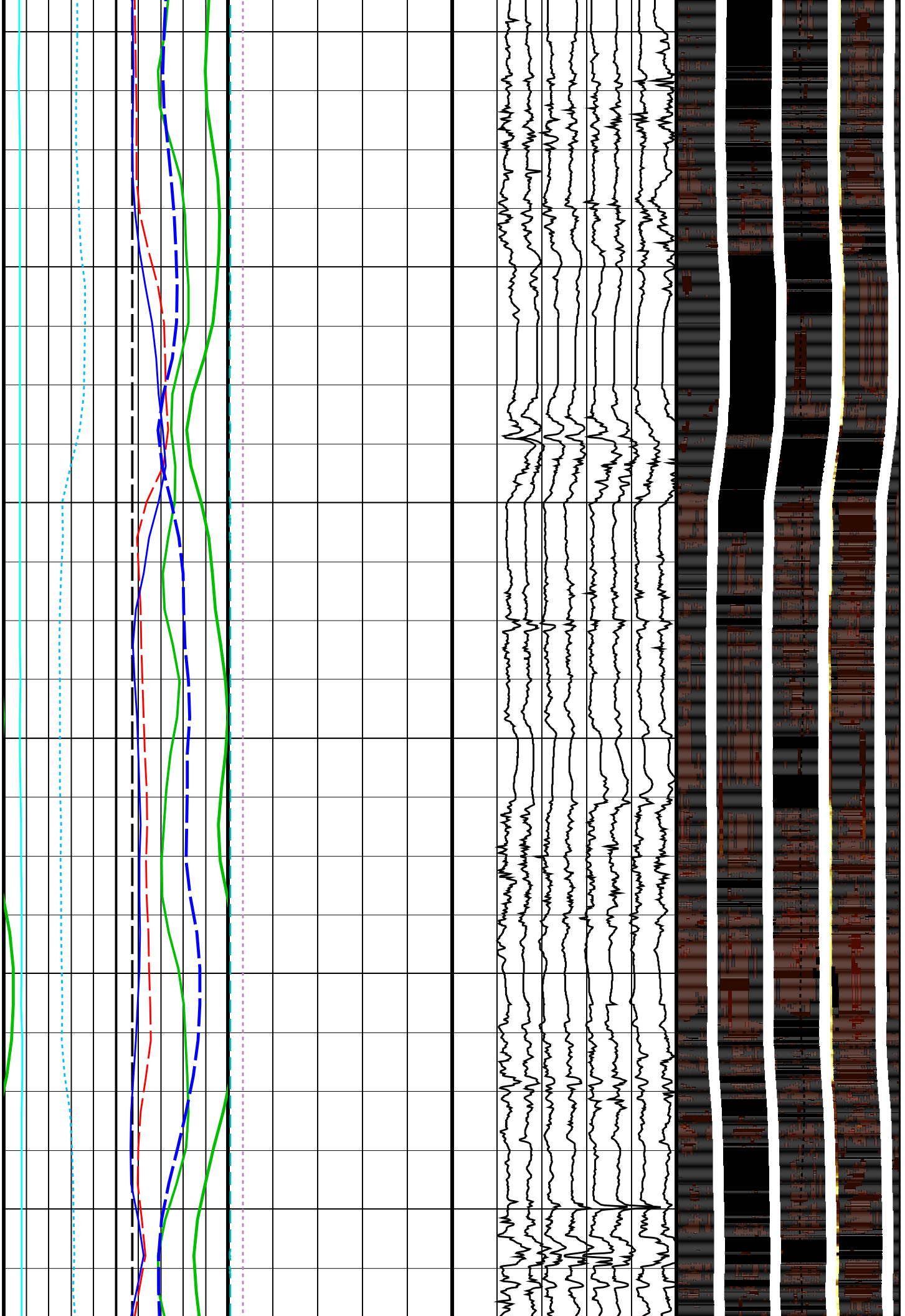
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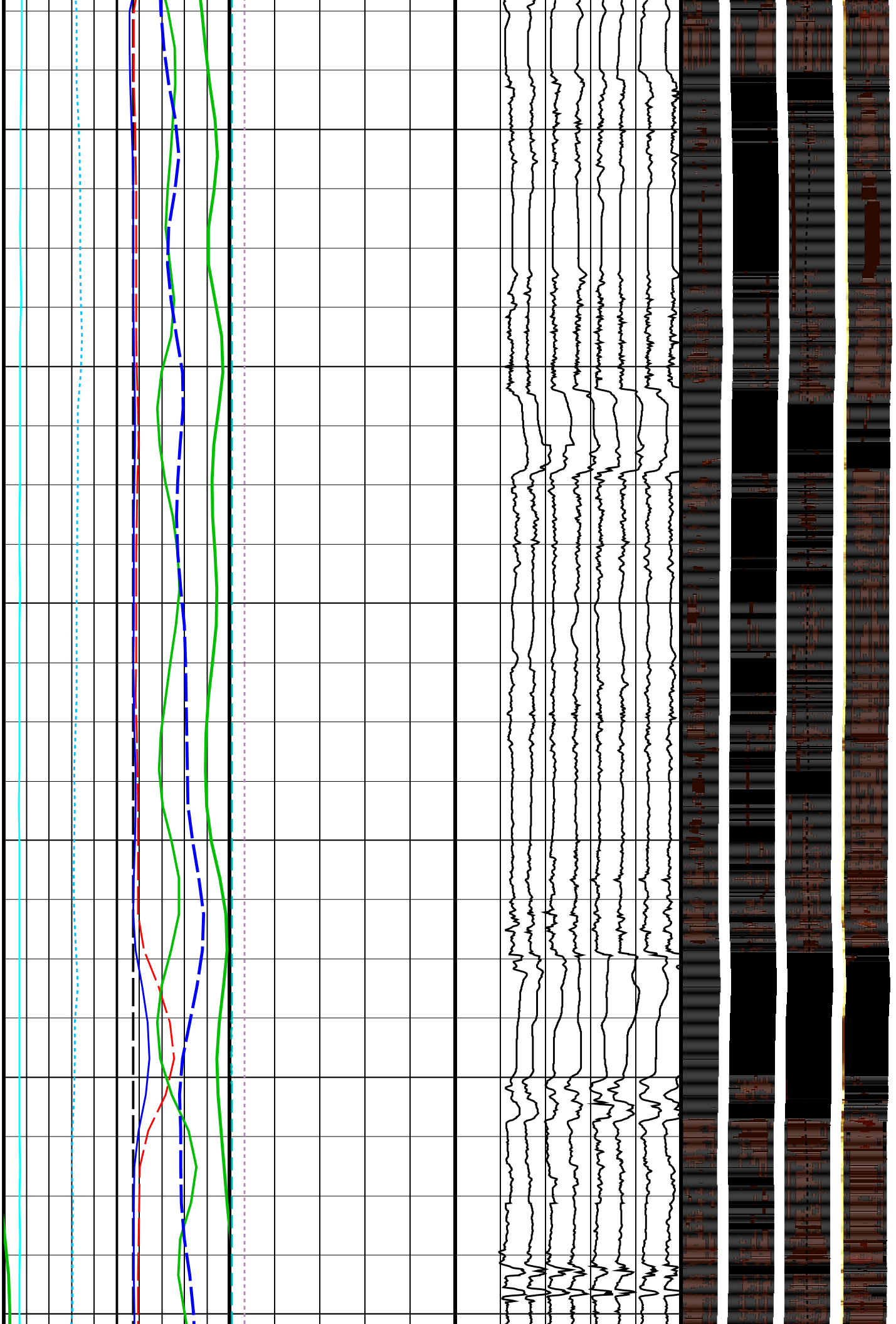
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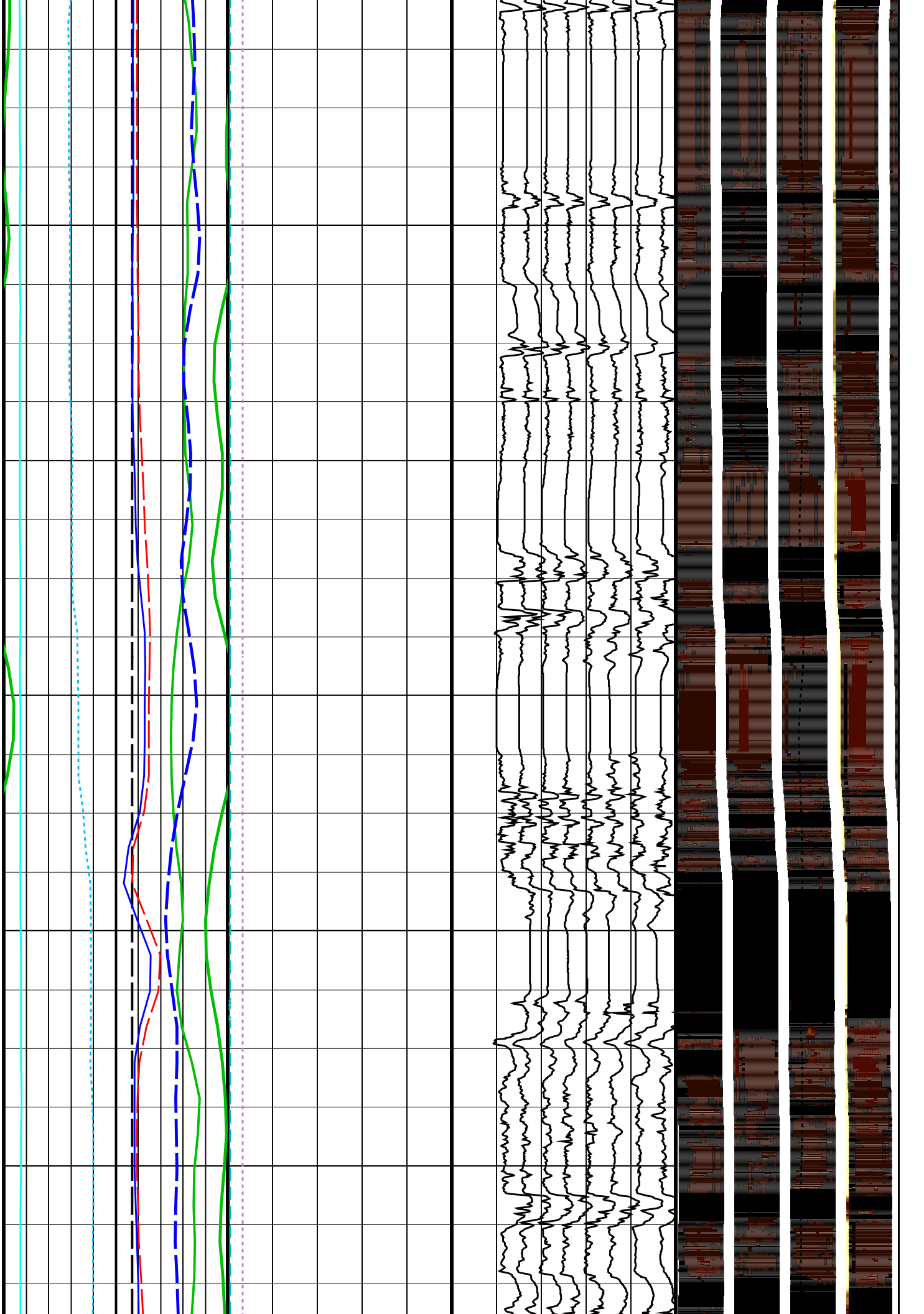
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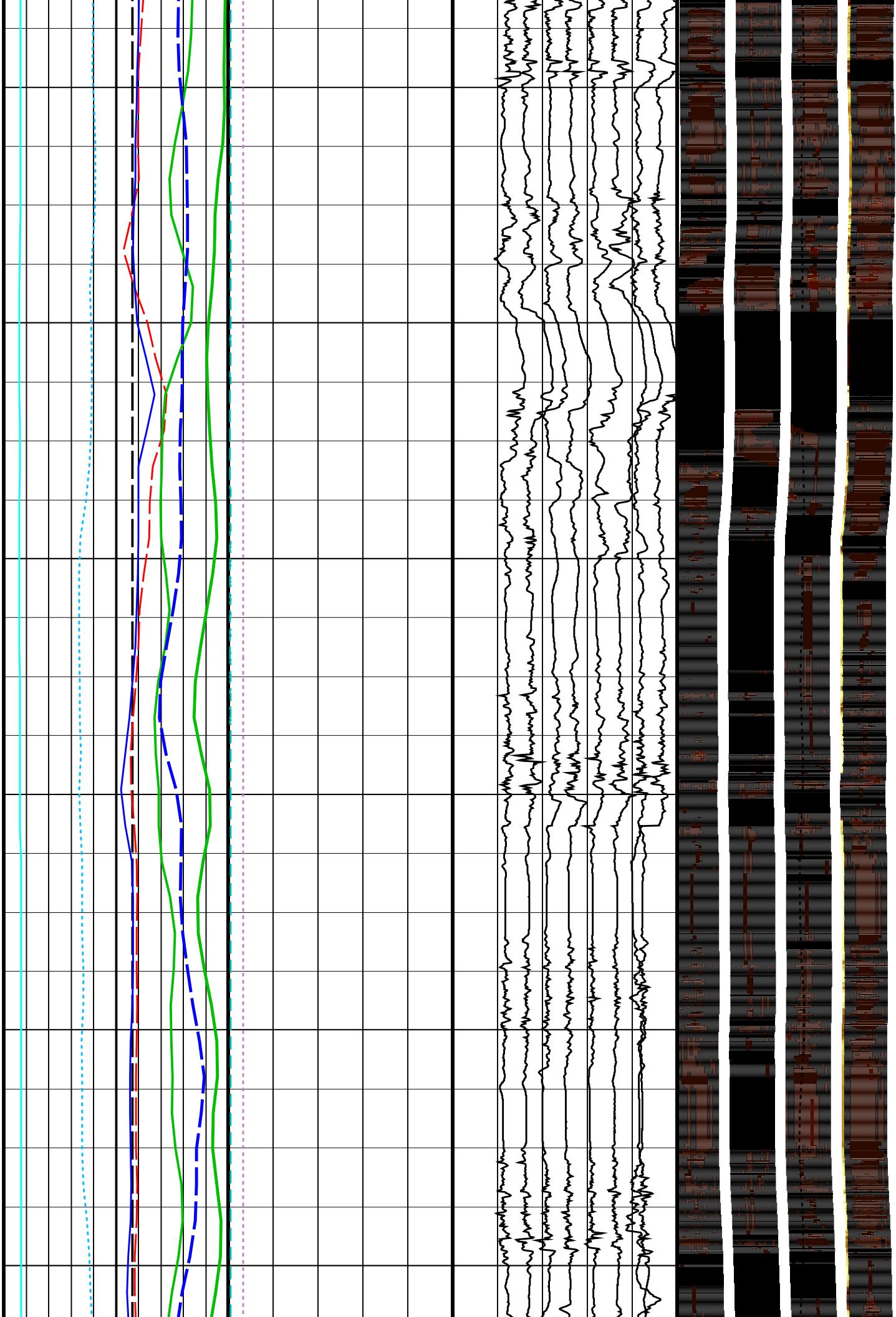
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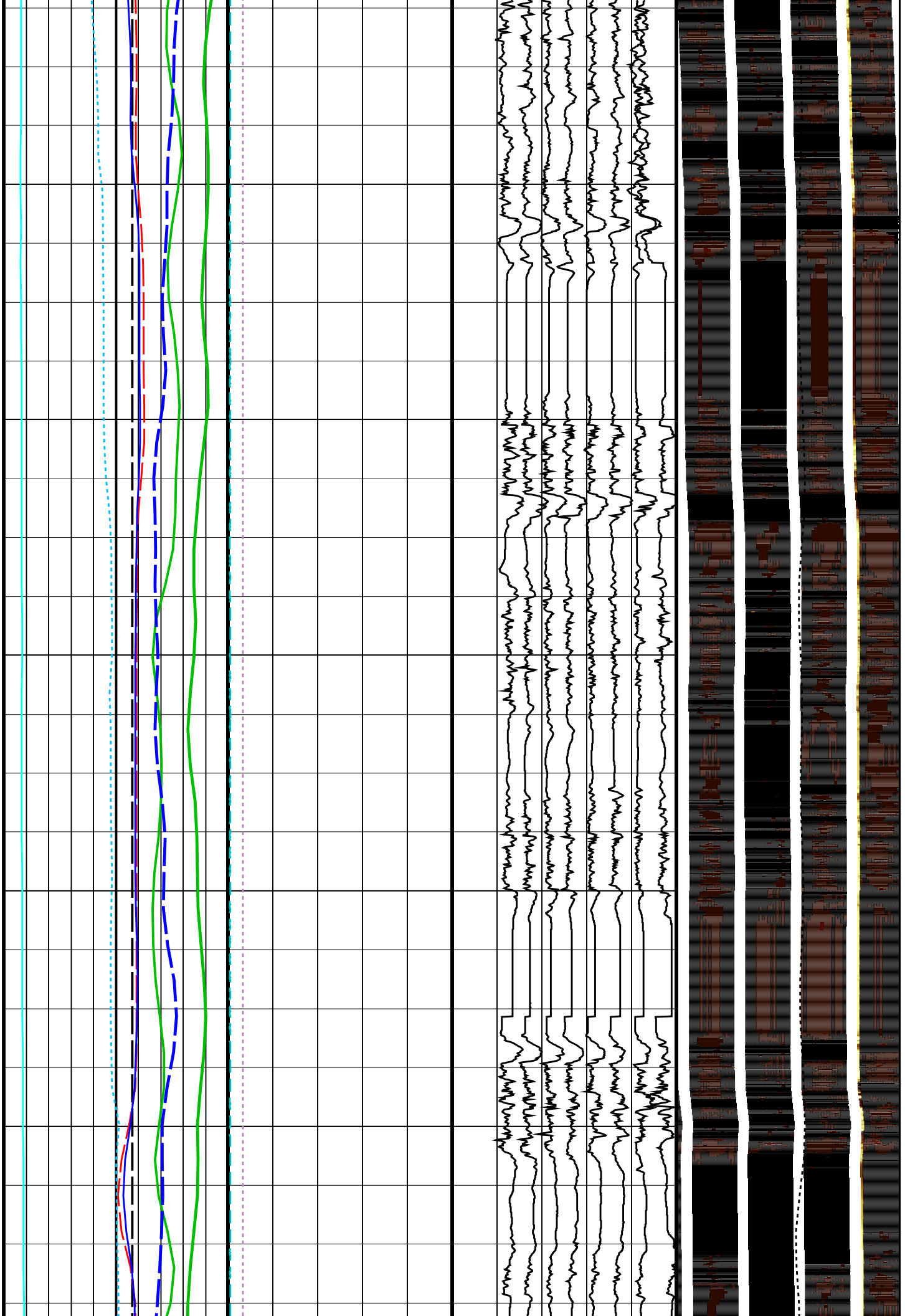
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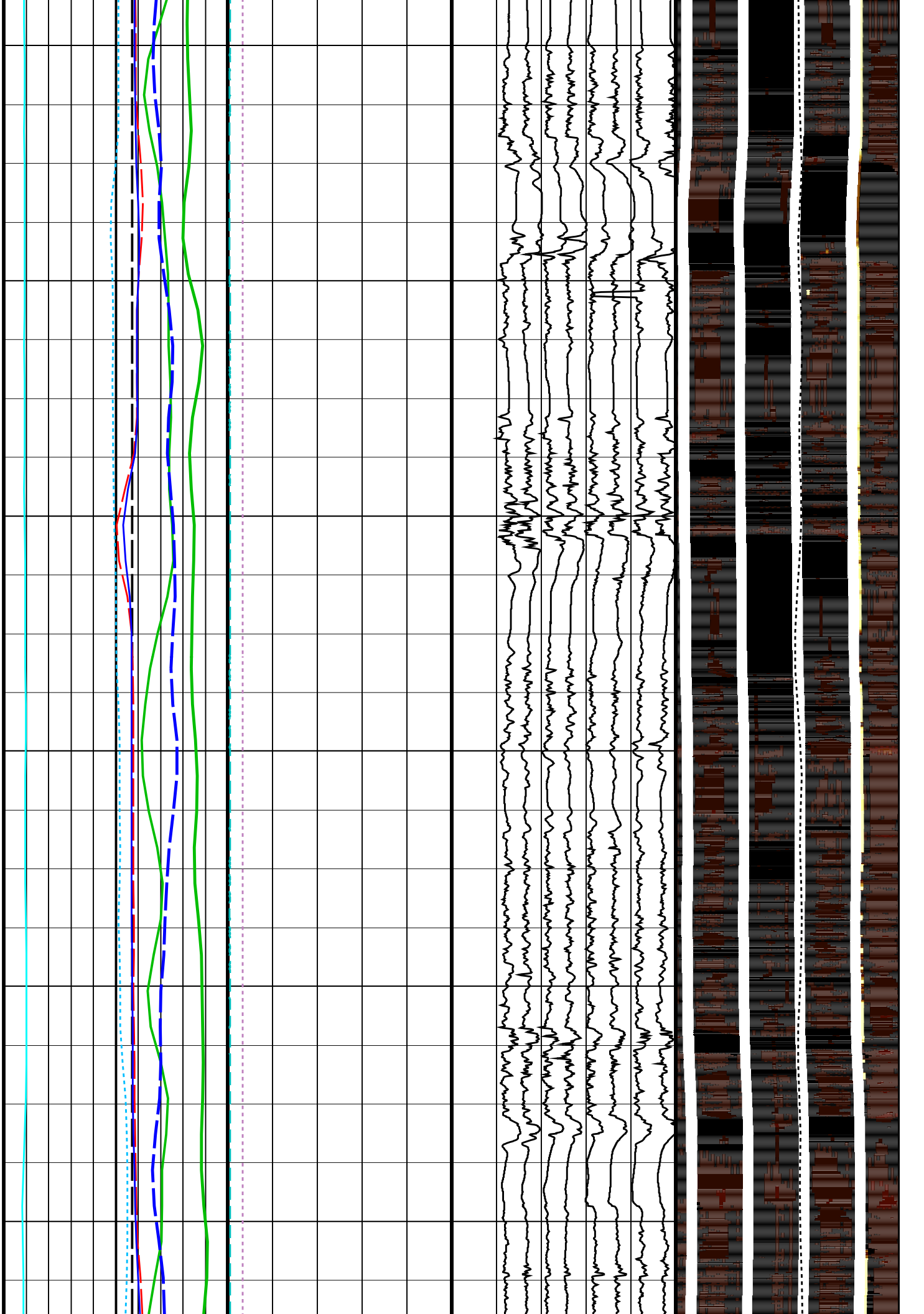
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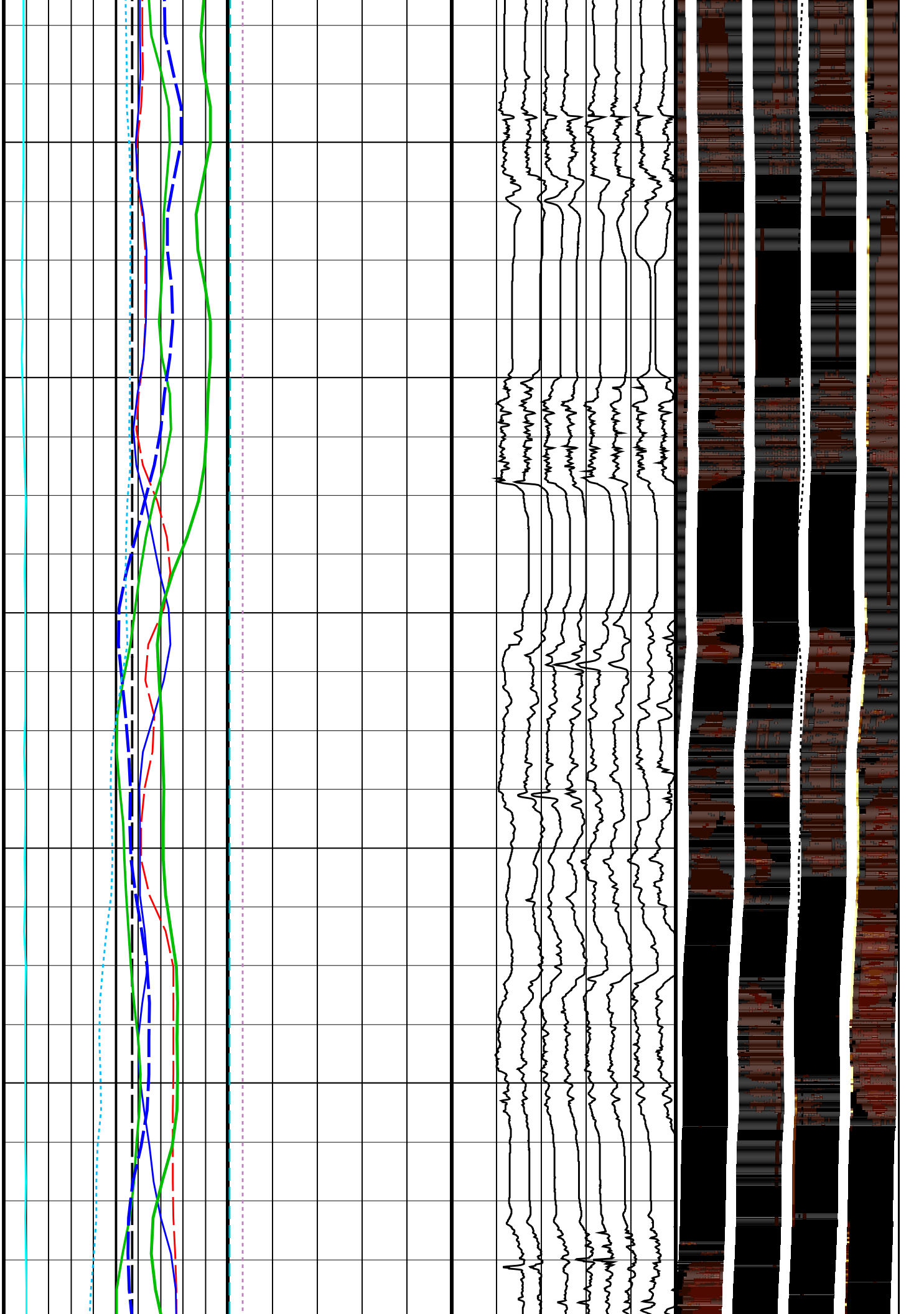
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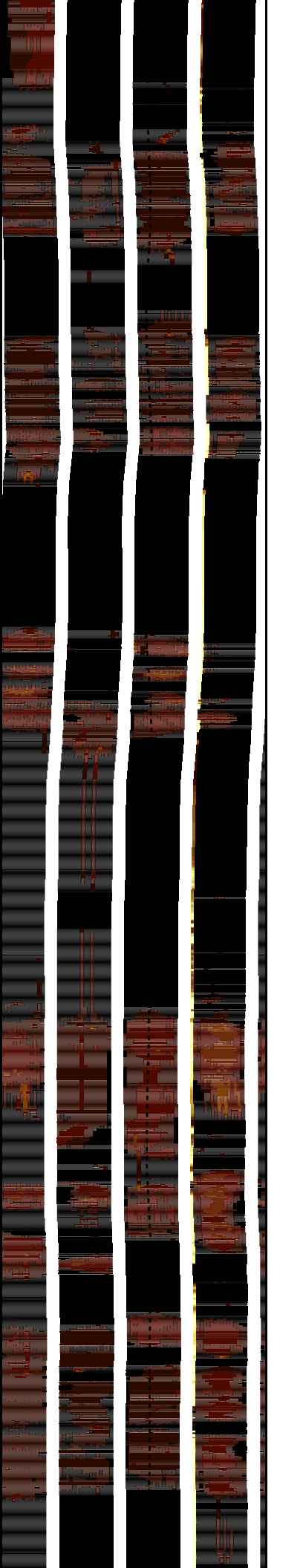
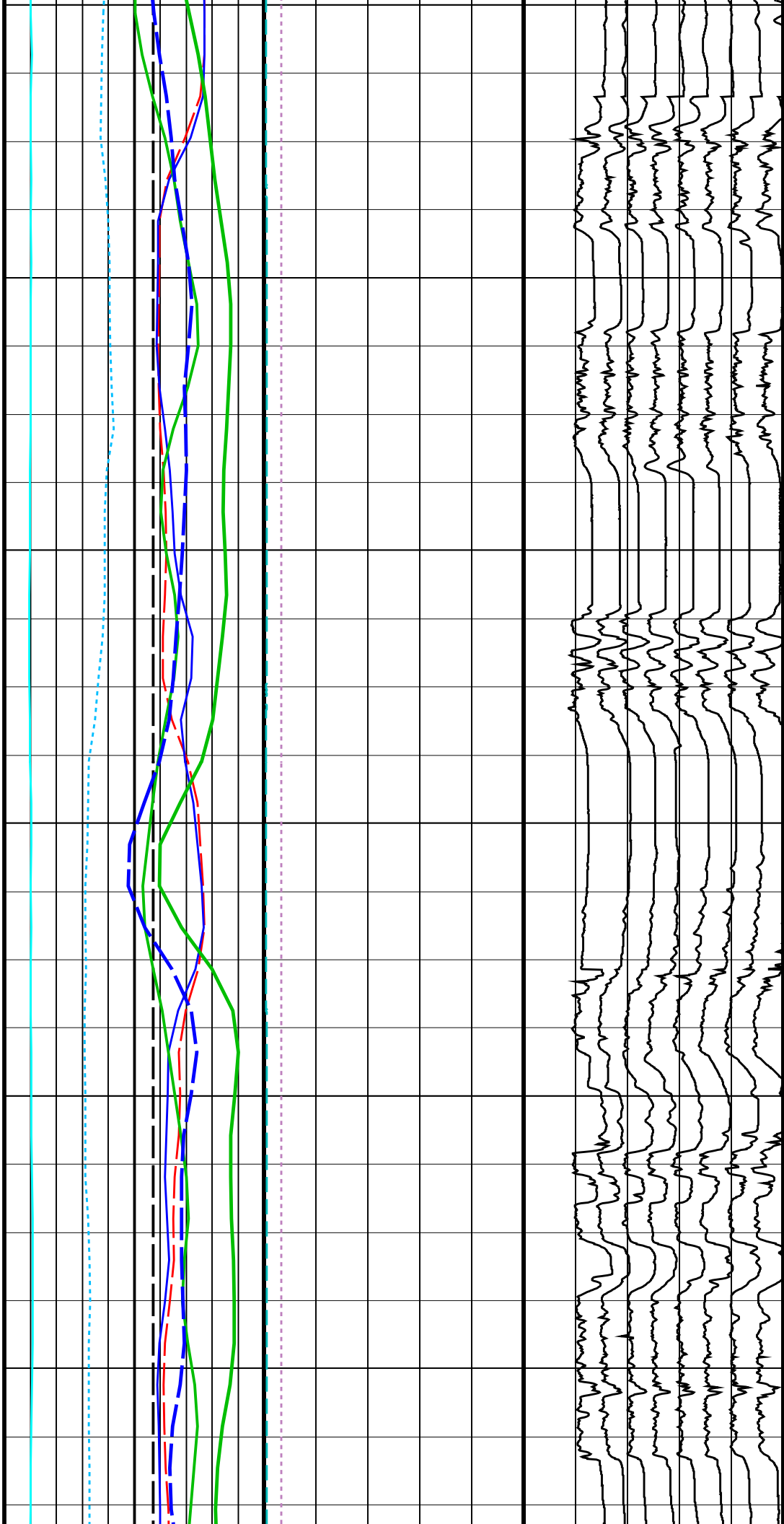
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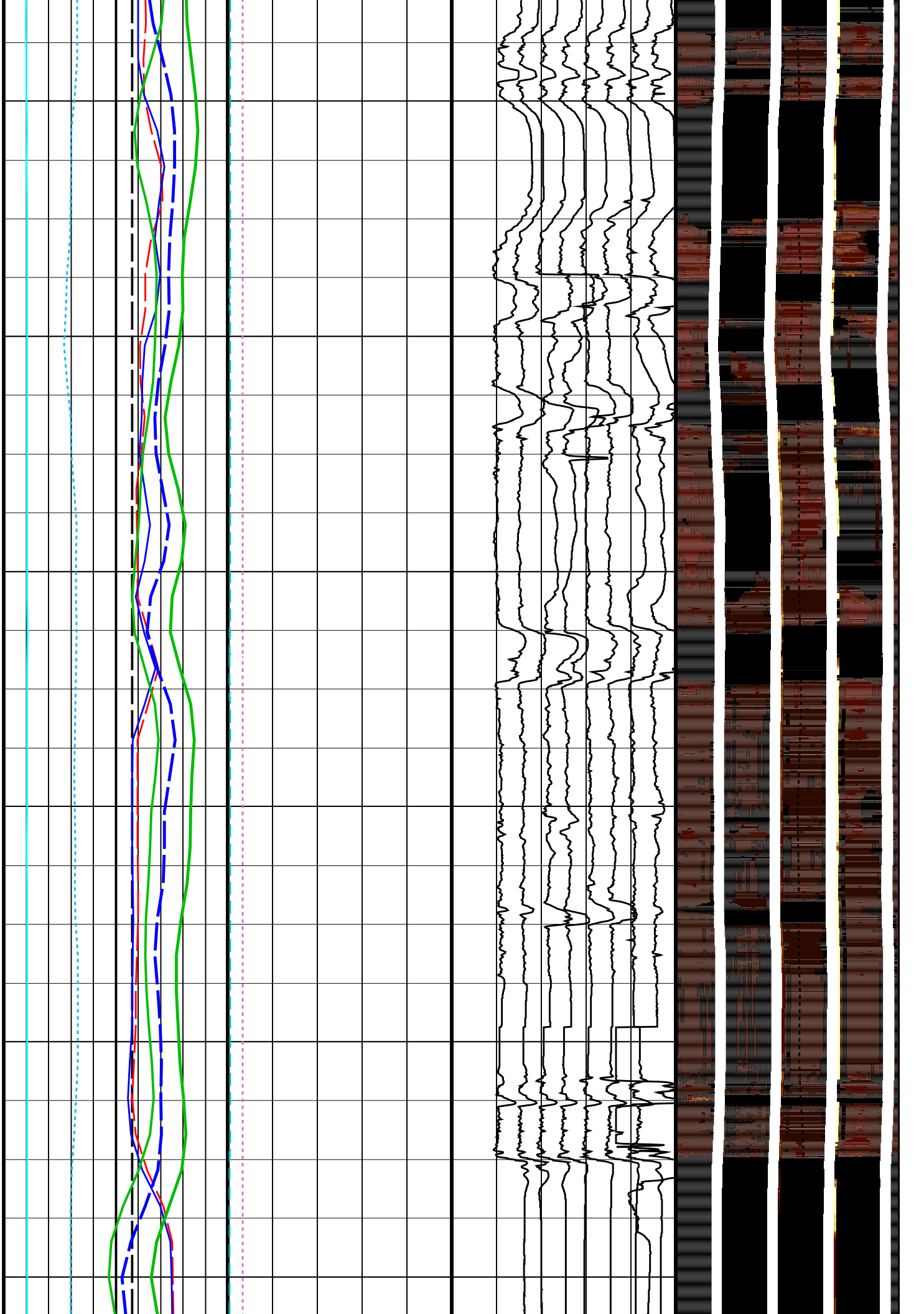
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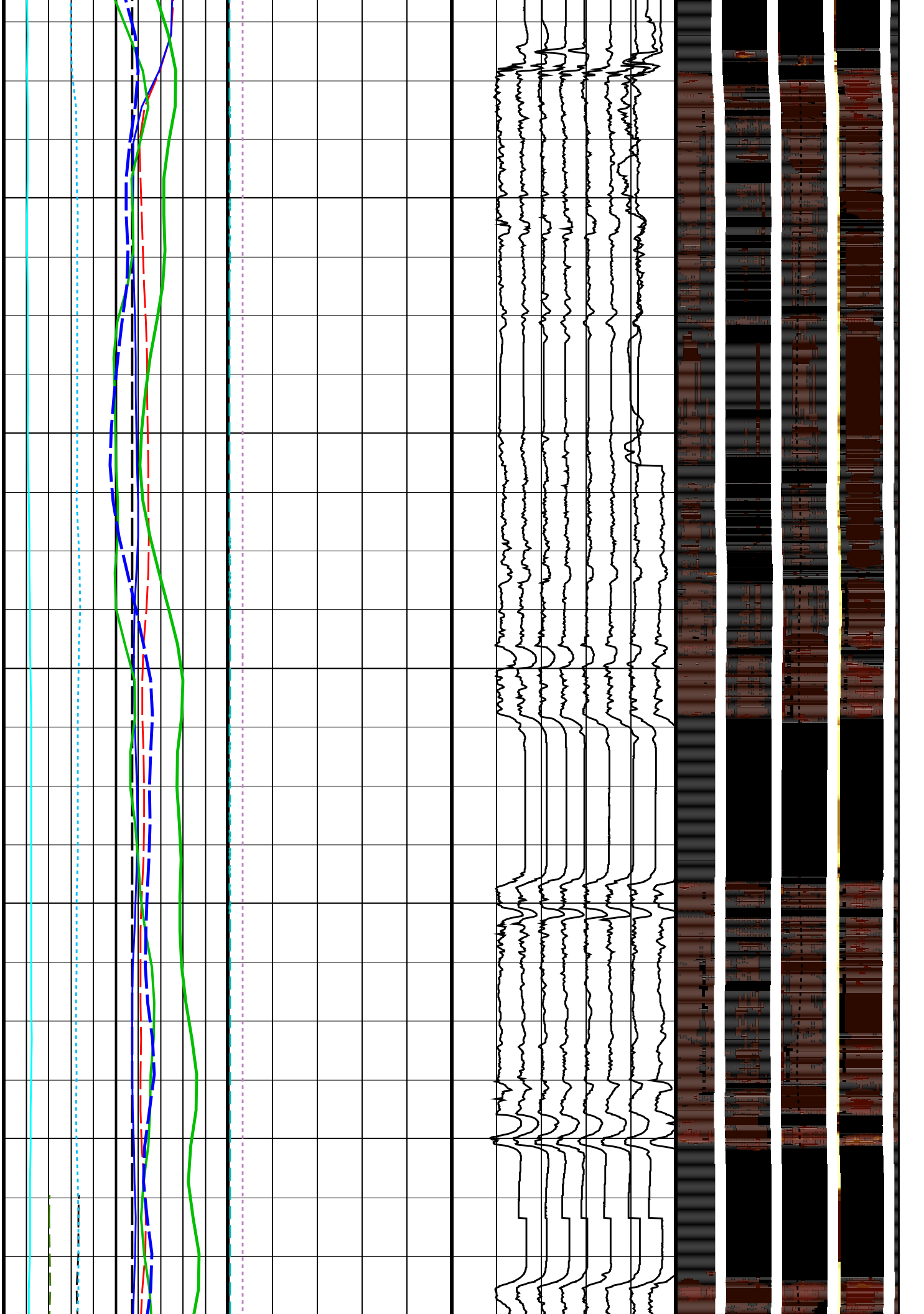
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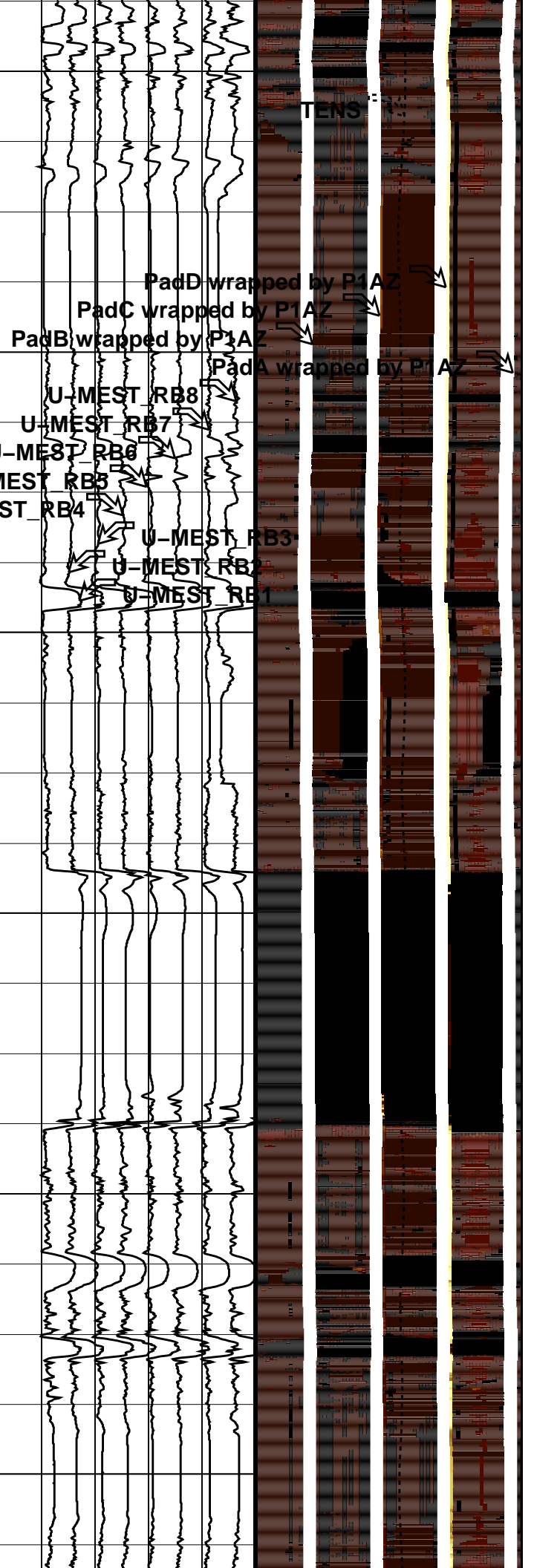
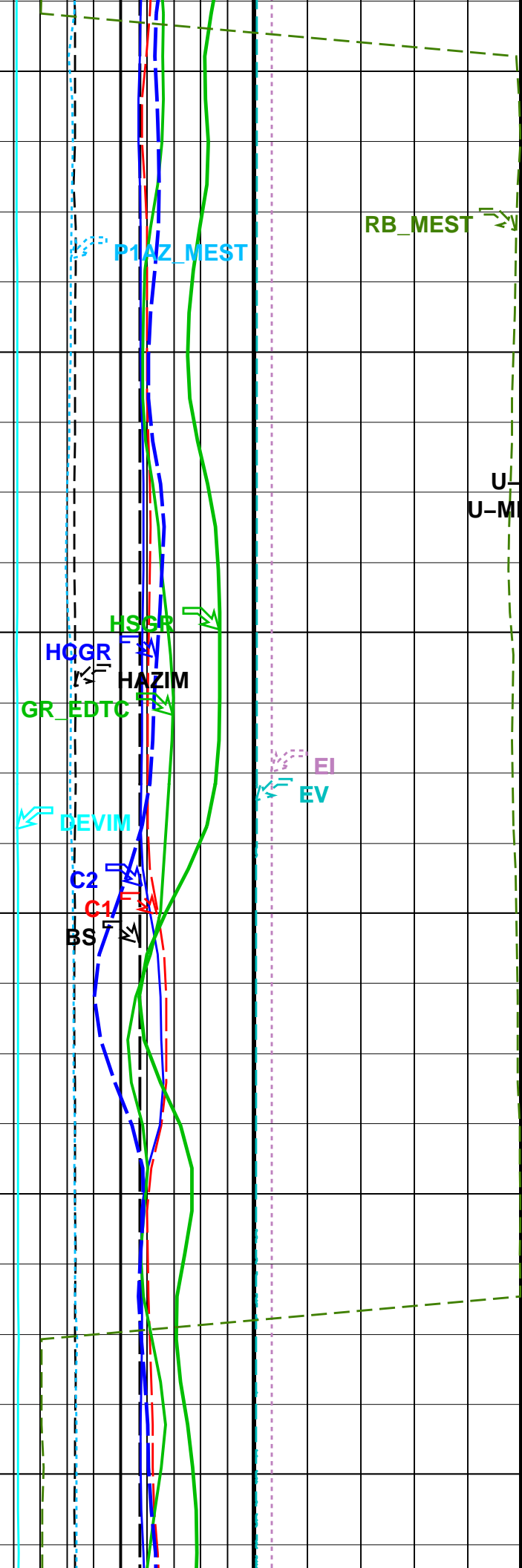
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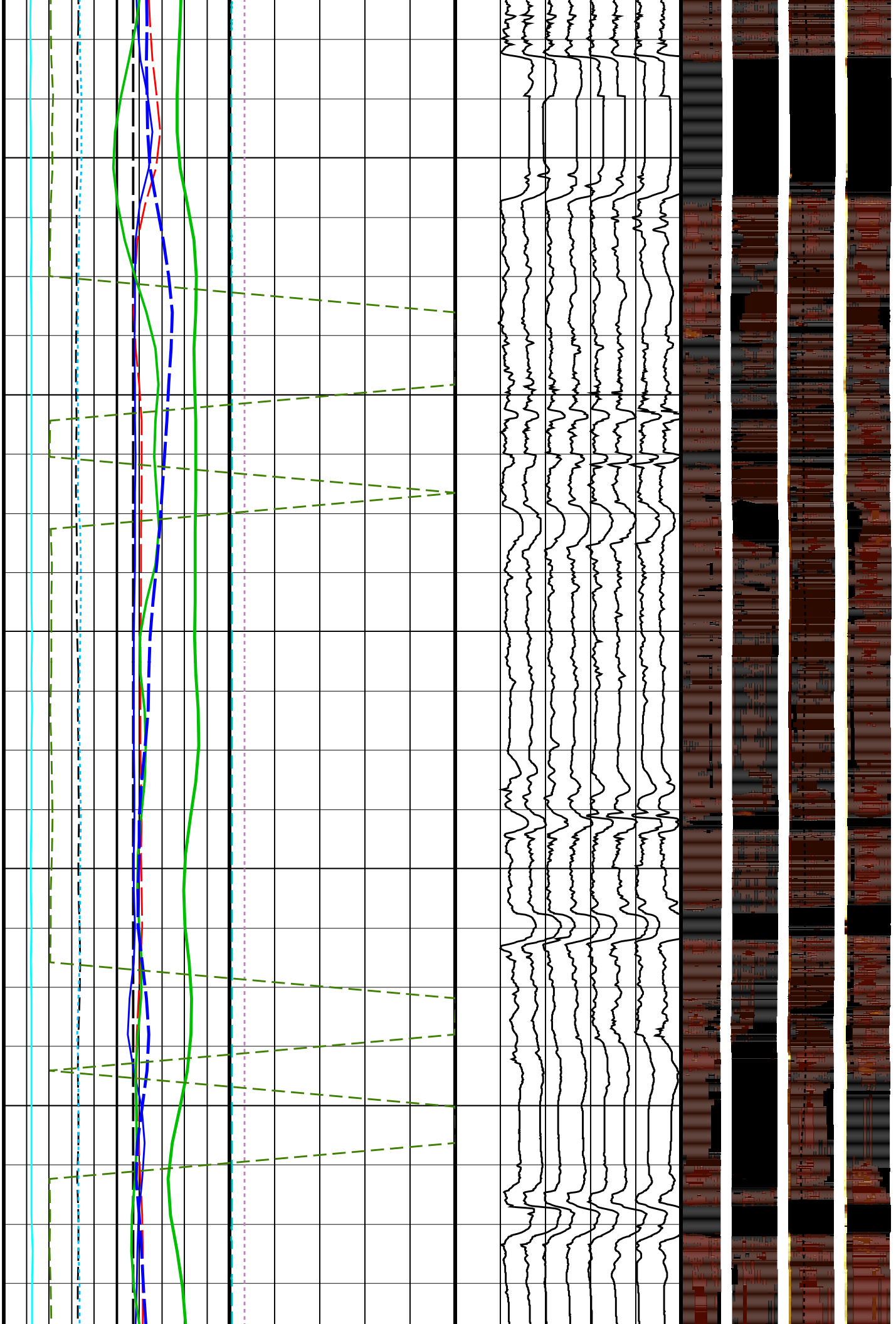
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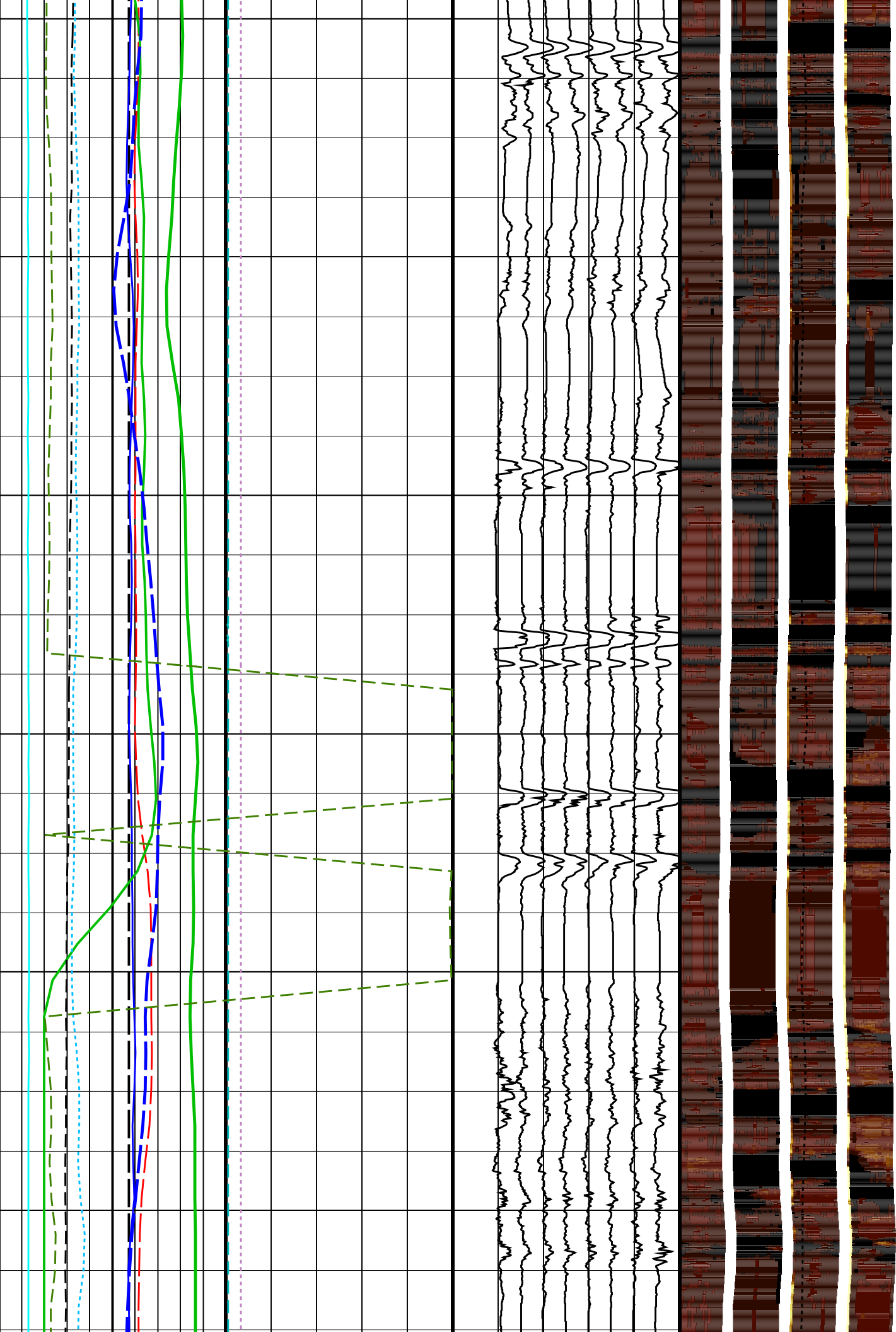
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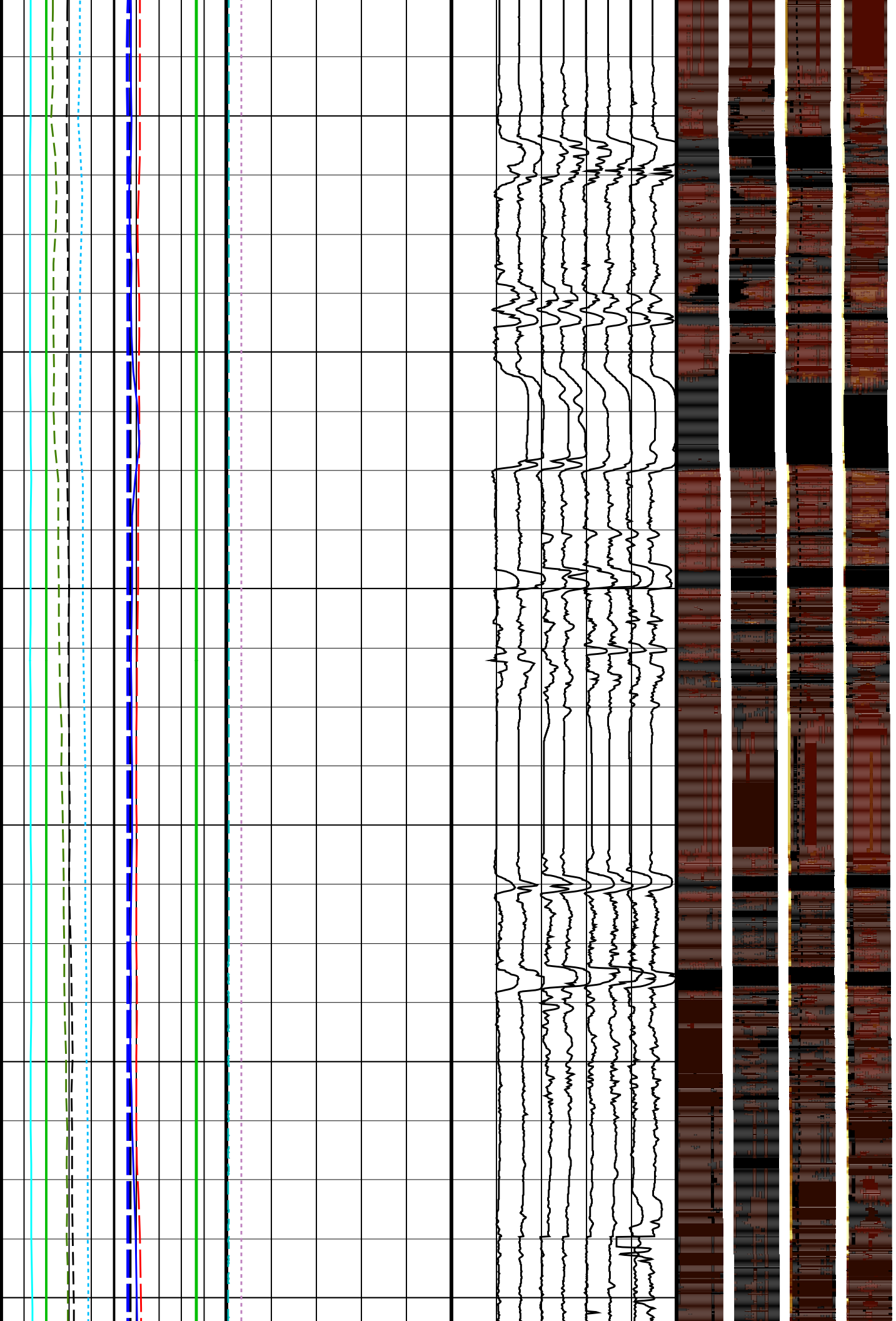
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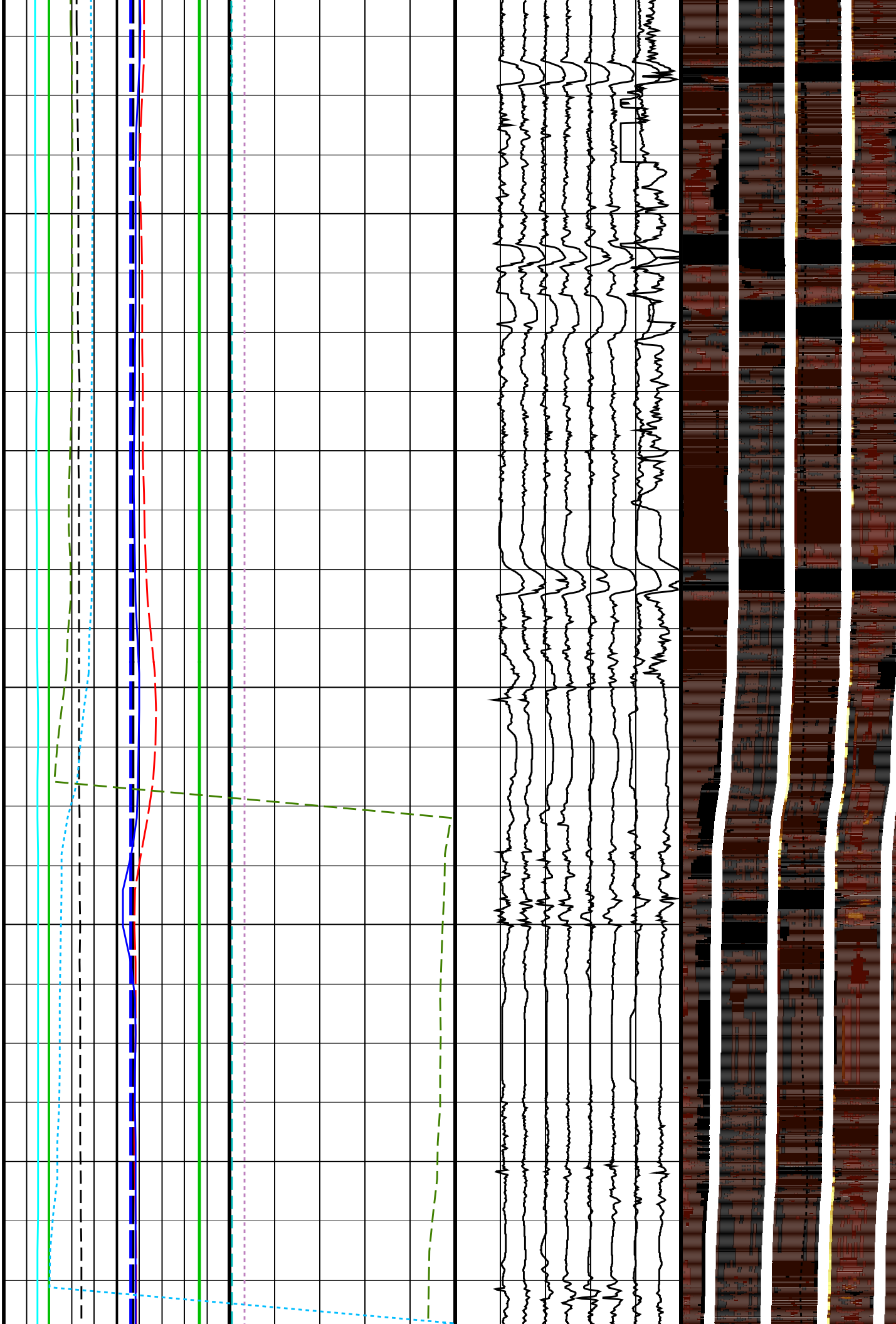
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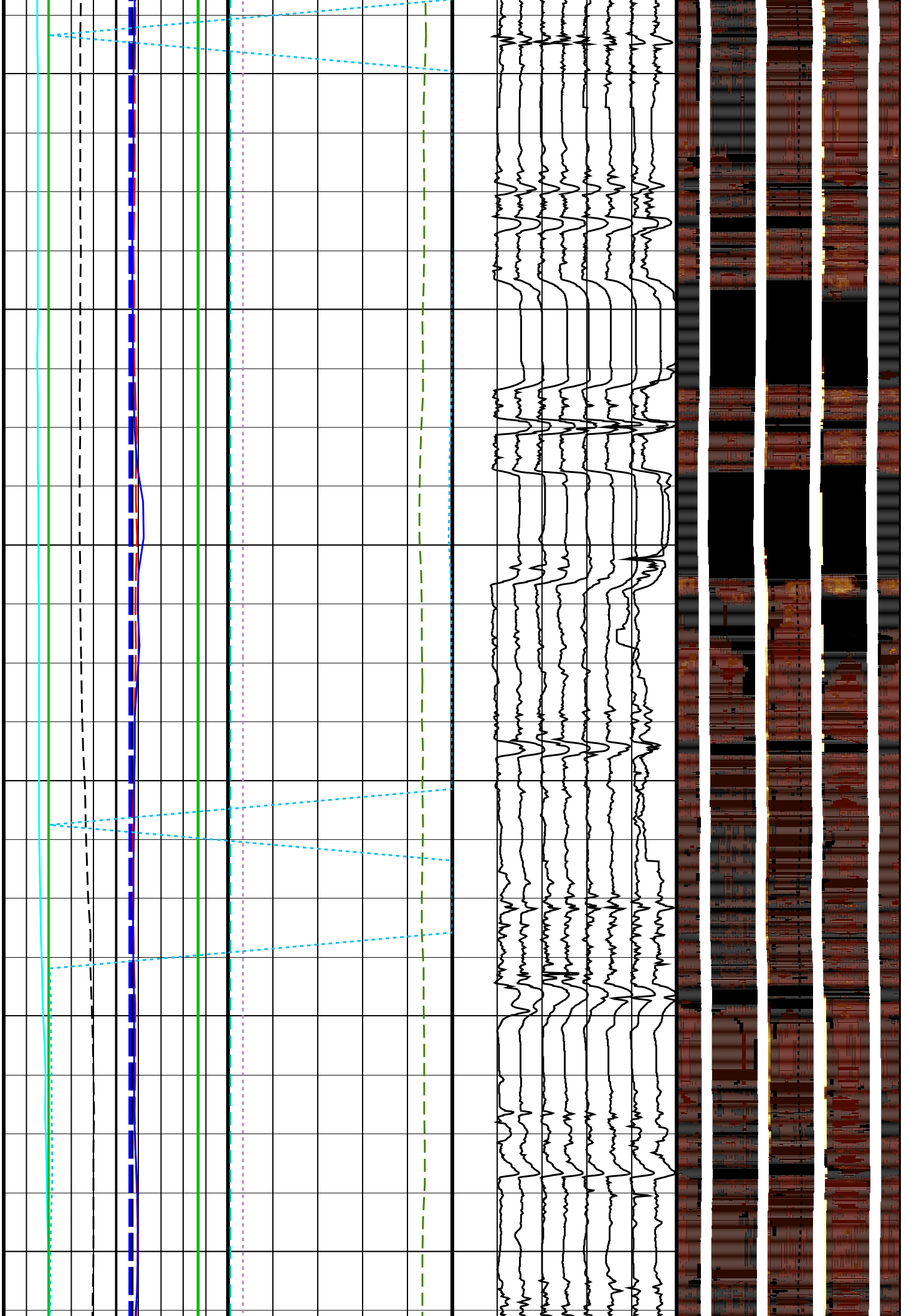
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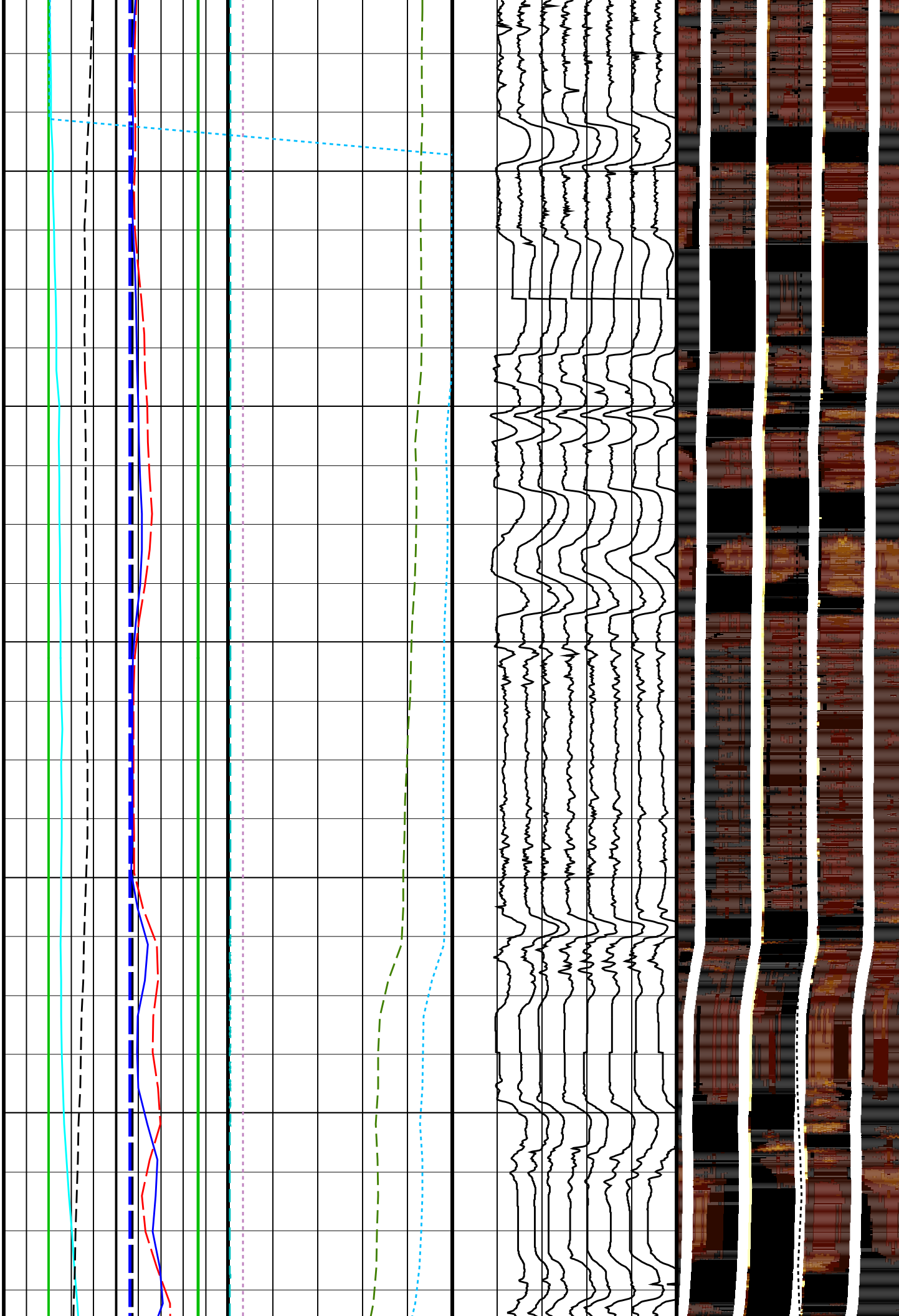
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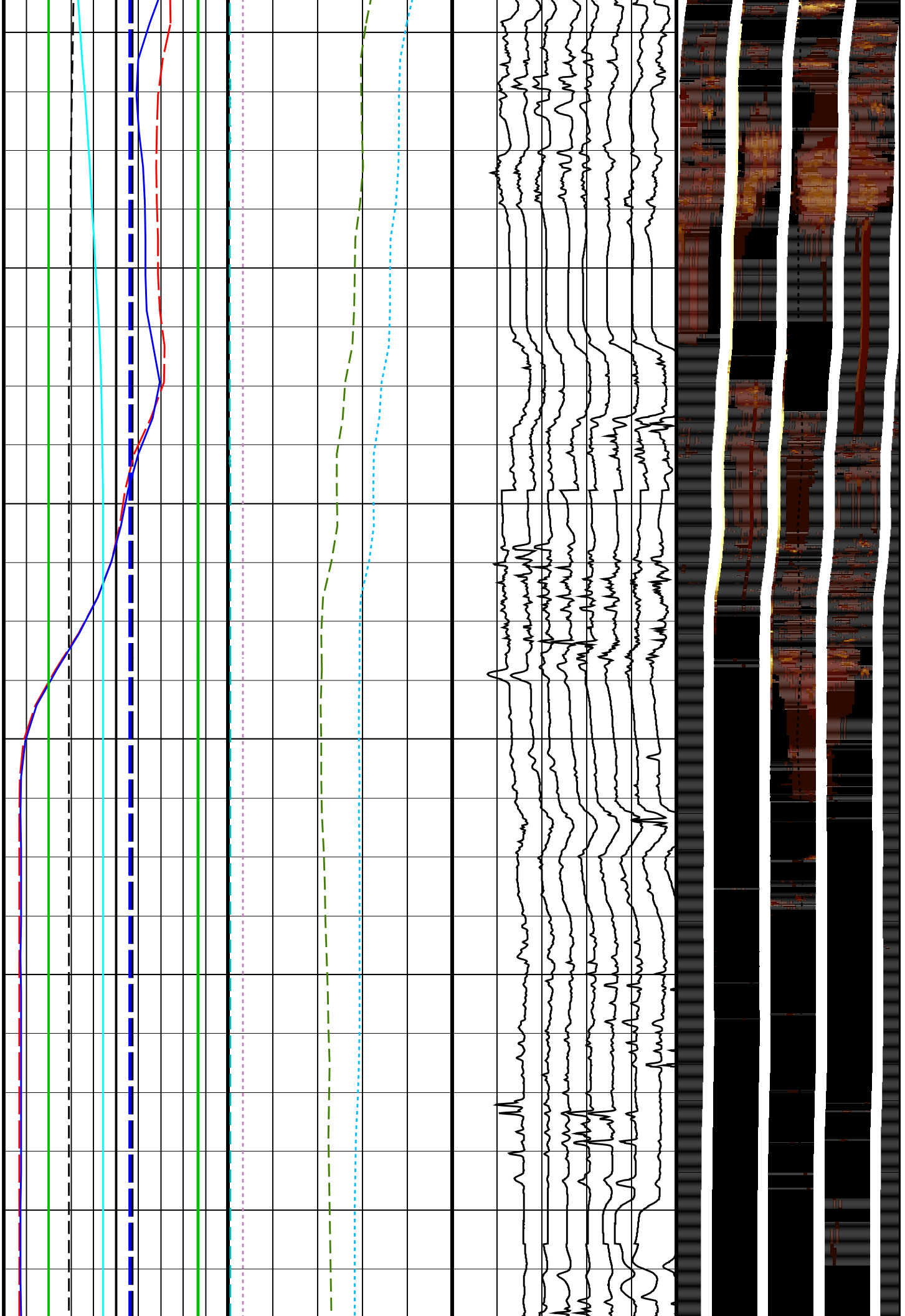
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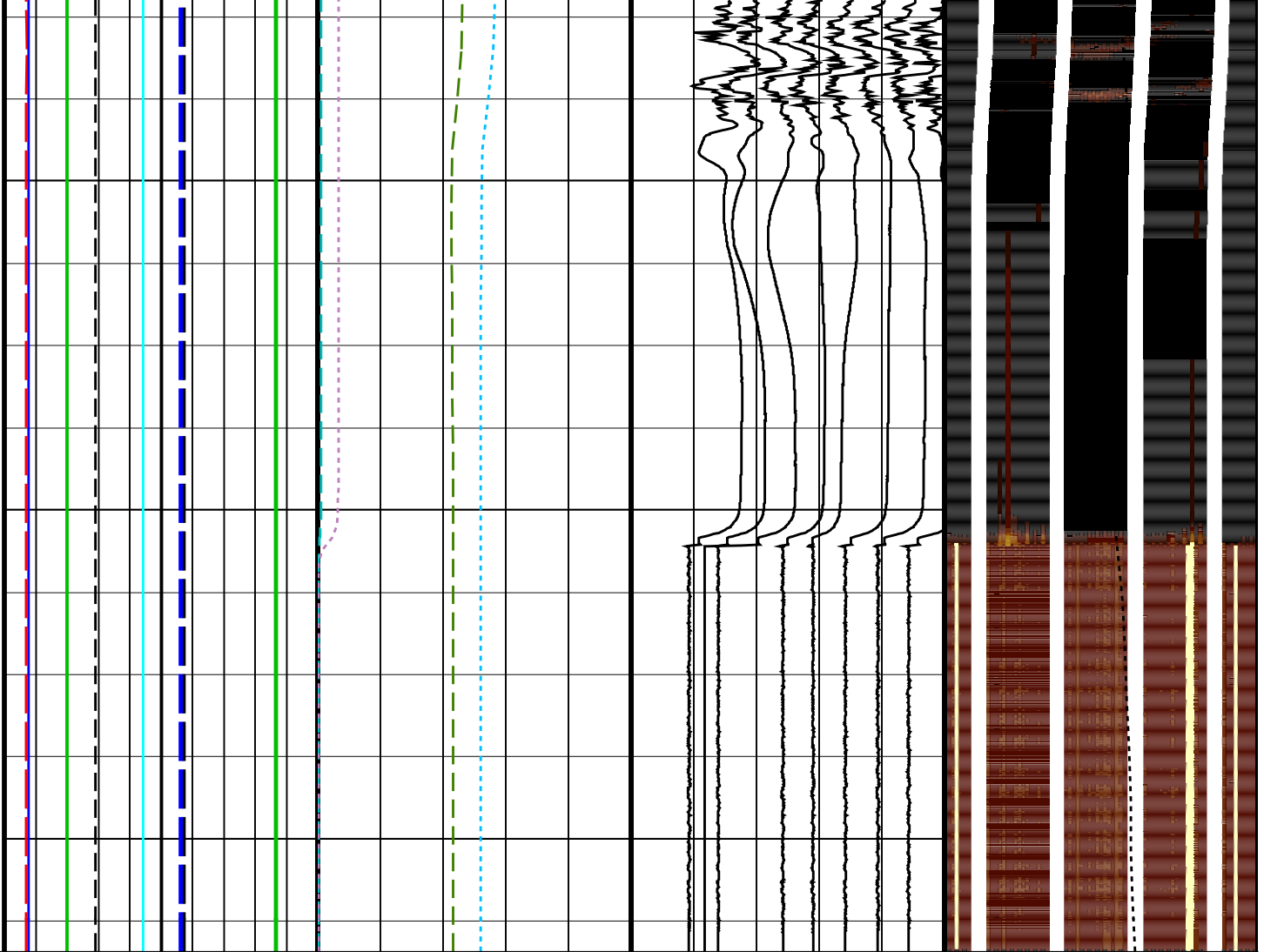
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Caliper 1 (C1)
(IN)

0 20

EMEX Voltage (EV)
(V)

0 50

Data Button 1 - Varies with
RBS (U-MEST_RB1)

-10 (----) 90

Tension (TENS)
(LBF)

10000 0

Caliper 2 (C2)
(IN)

0 20

EMEX Intensity (EI)
(AMPS)

0 10

Data Button 2 - Varies with
RBS (U-MEST_RB2)

-20 (----) 80

MEST_PADA (U-MEST_RESISTIVITY_PADA_DS)
(----)

0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086

Deviation (DEVIM)
(DEG)

0 10

Data Button 3 - Varies with
RBS (U-MEST_RB3)

-30 (----) 70

MEST_PADB (U-MEST_RESISTIVITY_PADB_DS)
(----)

0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086

Hole Azimuth (HAZIM)
(DEG)

-40 360

Data Button 4 - Varies with
RBS (U-MEST_RB4)

-40 (----) 60

MEST_PADC (U-MEST_RESISTIVITY_PADC_DS)
(----)

0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086

Pad One Azimuth (P1AZ_MEST)
(DEG)

-40 360

Data Button 5 - Varies with
RBS (U-MEST_RB5)

-50 (----) 50

MEST_PADD (U-MEST_RESISTIVITY_PADD_DS)
(----)

0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086

Relative Bearing (RB_MEST)
(DEG)

-40 360

Data Button 6 - Varies with
RBS (U-MEST_RB6)

-60 (----) 40

Data Button 7 - Varies with

0	Bit Size (BS) (IN)	20
0	Gamma Ray (GR_EDTC) (GAPI)	100
0	HNGS Computed Gamma Ray (HCGR) (GAPI)	100
0	HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	100

-70	Data Button 7 - Varies with RBS (U-MEST_RB7) (----)	30
-80	Data Button 8 - Varies with RBS (U-MEST_RB8) (----)	20

1st Pass, Sea Floor Depth Reference

FMS Raw Images

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	-0.884445	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	BS	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.000548907	
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	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.97264	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.967787	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.20	G/C3
DO	Depth Offset for Playback	-2510.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST_C_WRAP_BY_P1AZ

Vertical Scale: 1:20

Graphics File Created: 07-Jan-2015 02:13

OP System Version: 19C0-187

MEST-B 19C0-187
 DSST-B 19C0-187
 HNGS-BA 19C0-187

DTA-A 19C0-187
 HNGC-B 19C0-187
 EDTC-B SKK-5169-EDTCB

Input DLIS Files

DEFAULT FMS_DSI_NGS_022LUP FN:38 PRODUCER 06-Jan-2015 17:07 2960.4 M 2636.7 M

Output DLIS Files

DEFAULT FMS_DSI_NGS_030PUP FN:50 PRODUCER 07-Jan-2015 02:13

Company: Integrated Ocean Discovery Program Well: Expedition 353, Site U1445A BB-5

Input DLIS Files

DEFAULT FMS_DSI_NGS_024LUP FN:42 PRODUCER 06-Jan-2015 18:12 2960.4 M 2497.1 M

Output DLIS Files

DEFAULT FMS_DSI_NGS_032PUP FN:52 PRODUCER 07-Jan-2015 02:23 451.1 M -11.7 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

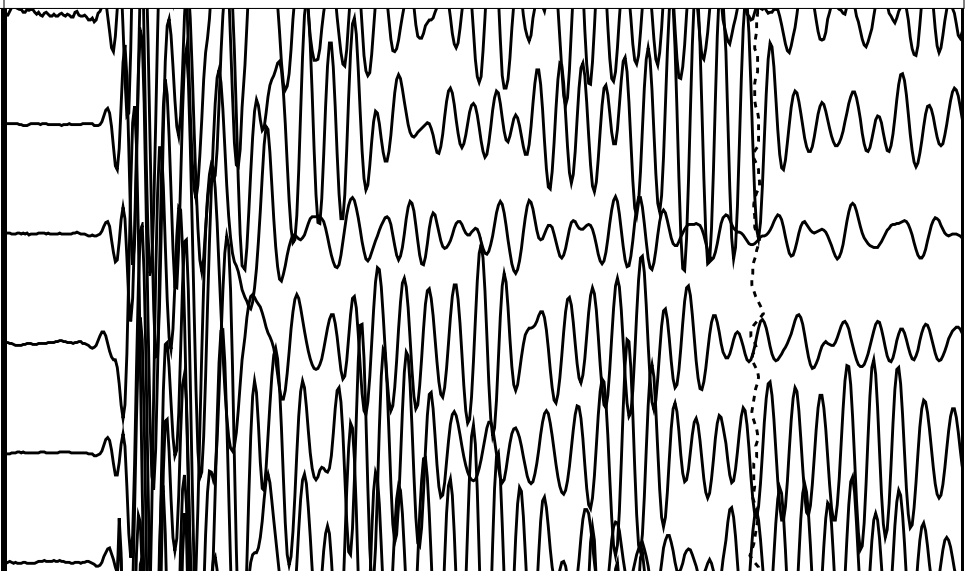
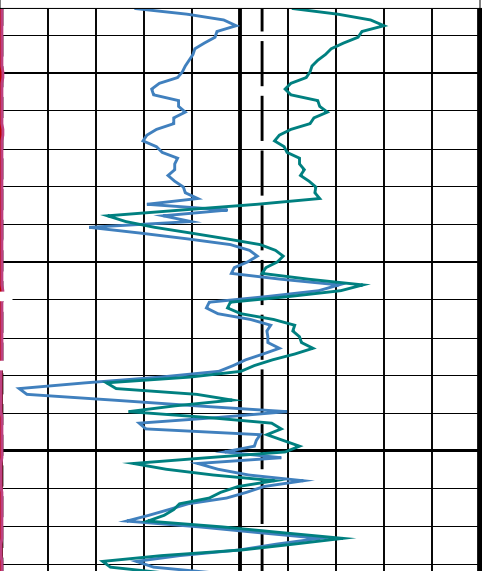
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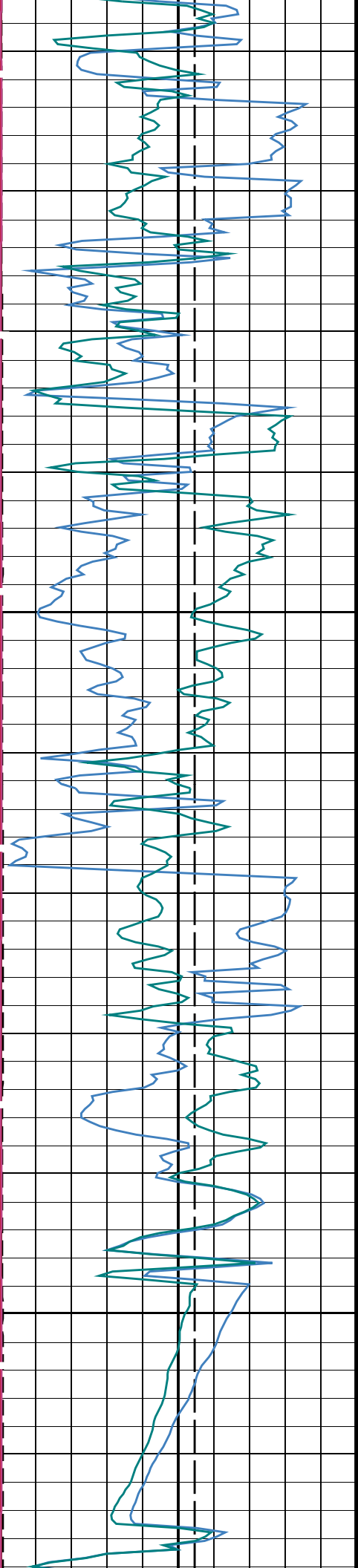
Deviation at DSST Waveform Depth (DVWD)		
0	(DEG)	100
Relative Bearing at DSST Waveform Depth (RBWD)		
0	(DEG)	400
Azimuth at DSST Waveform Depth (AZWD)		
0	(DEG)	400
Waveform Data Copy Indicator X - Expert (WCIX)		
0	(----	10
SAMX Waveform Gain (WFGX)		
0	(----	1000
Bit Size (BS)		
6	(IN)	16

Sea Floor Depth Both Crossed Dipole (SAMX=BCR)
Uplong 2

Tension (TENS)
(LBF) 10000 0

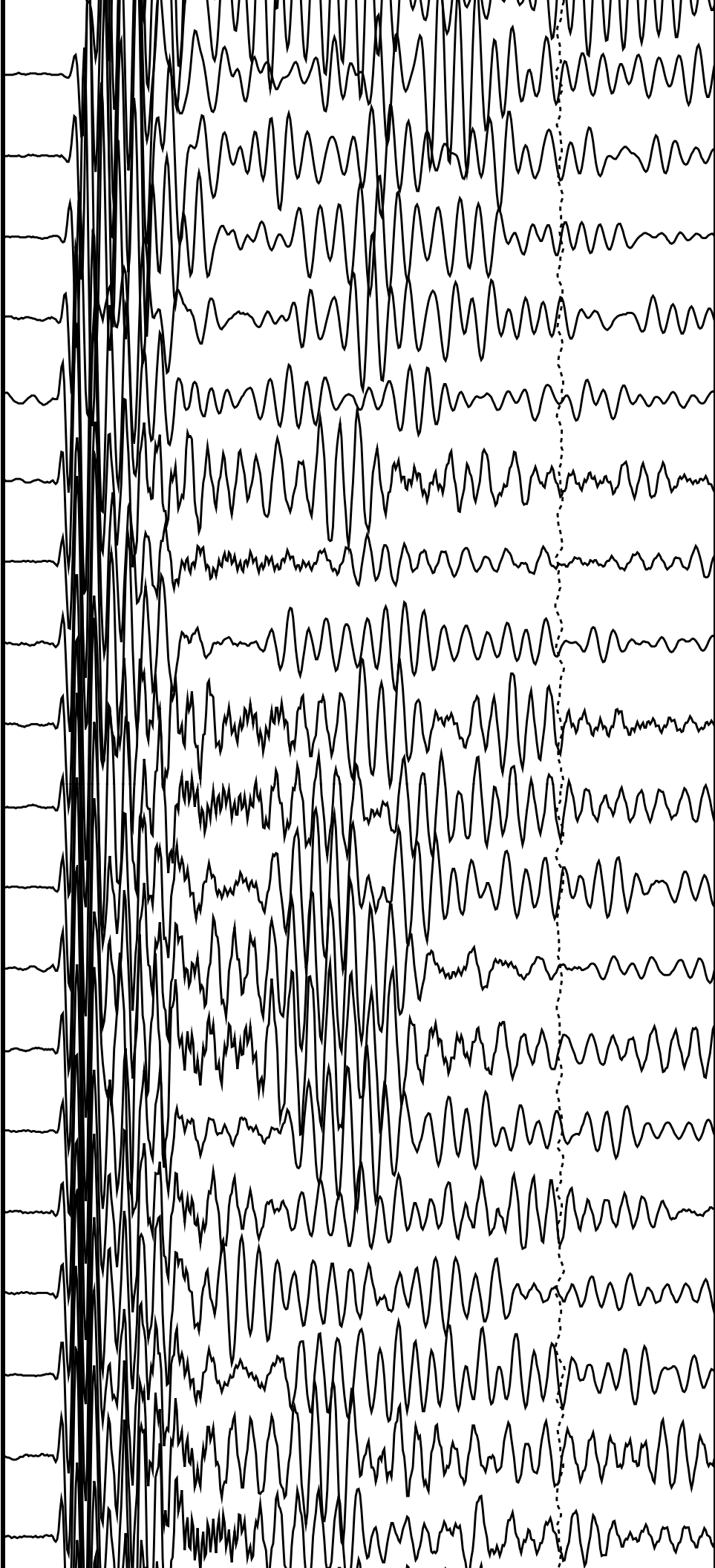
SAMX Waveforms (WFX)
(US) 0 20000

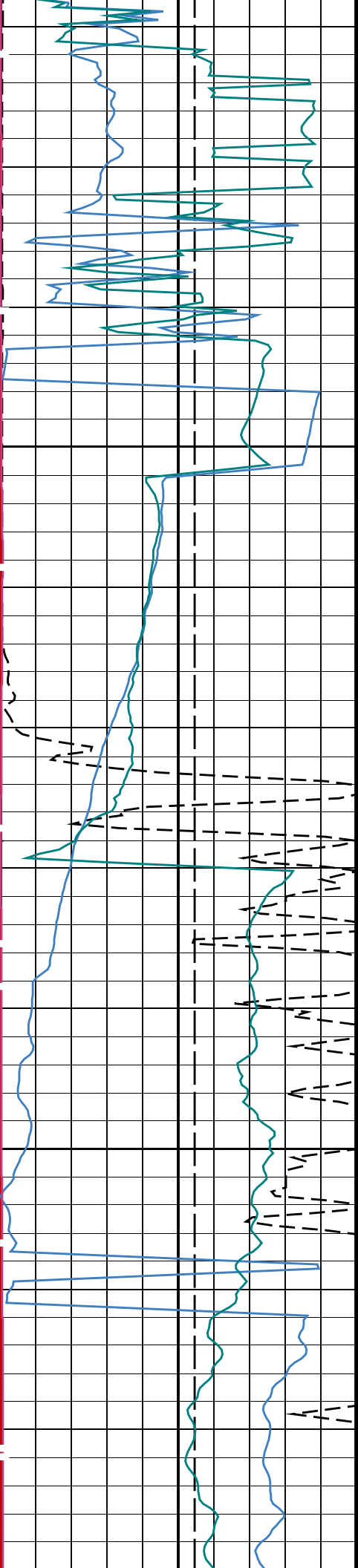




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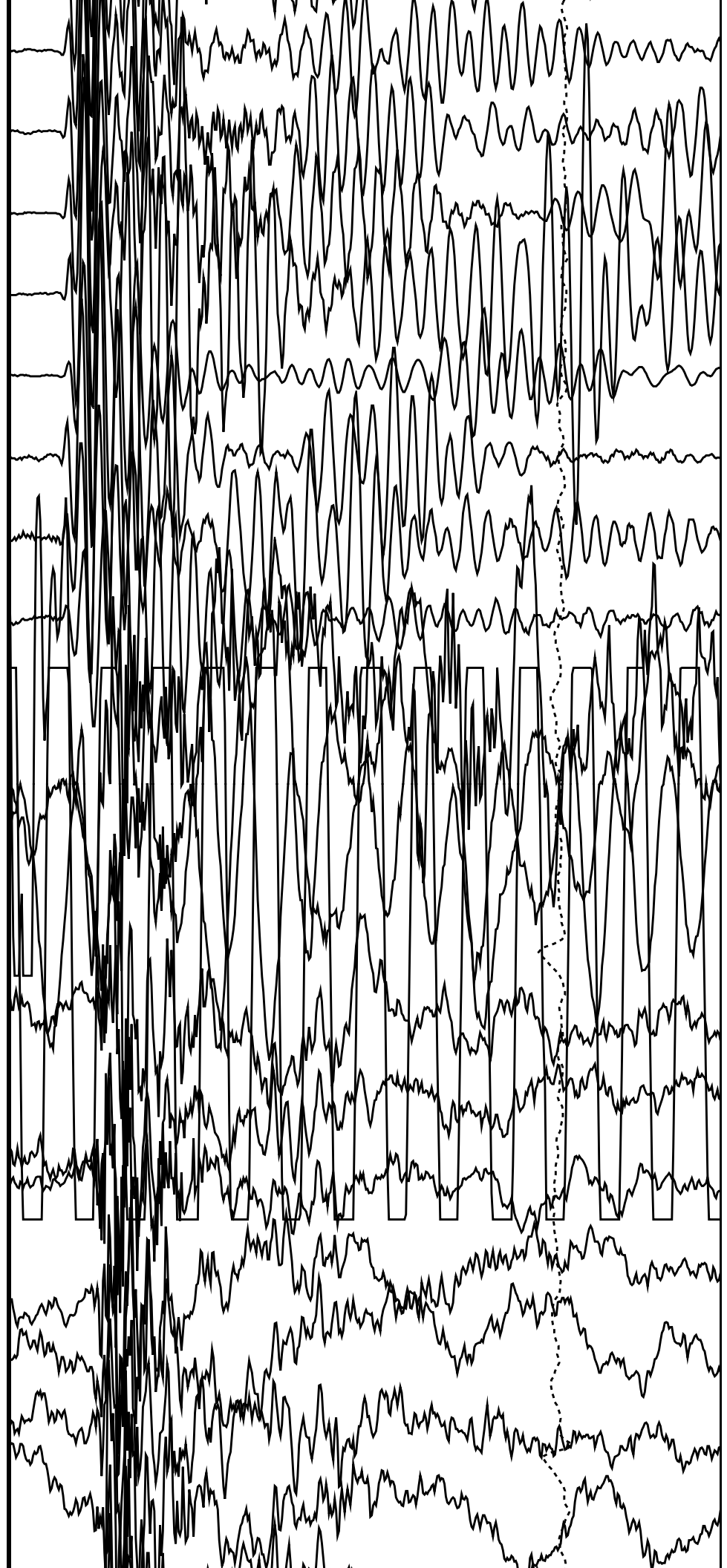
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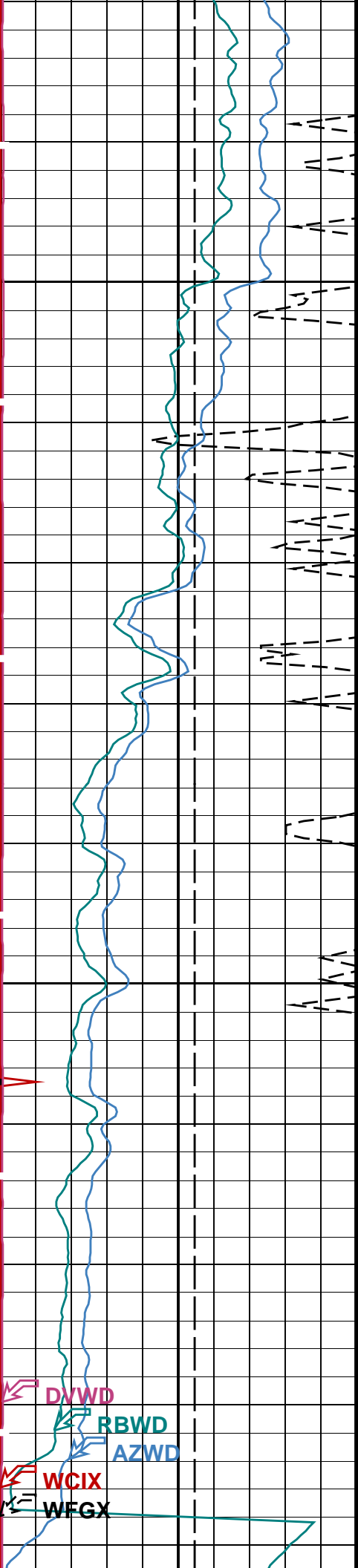




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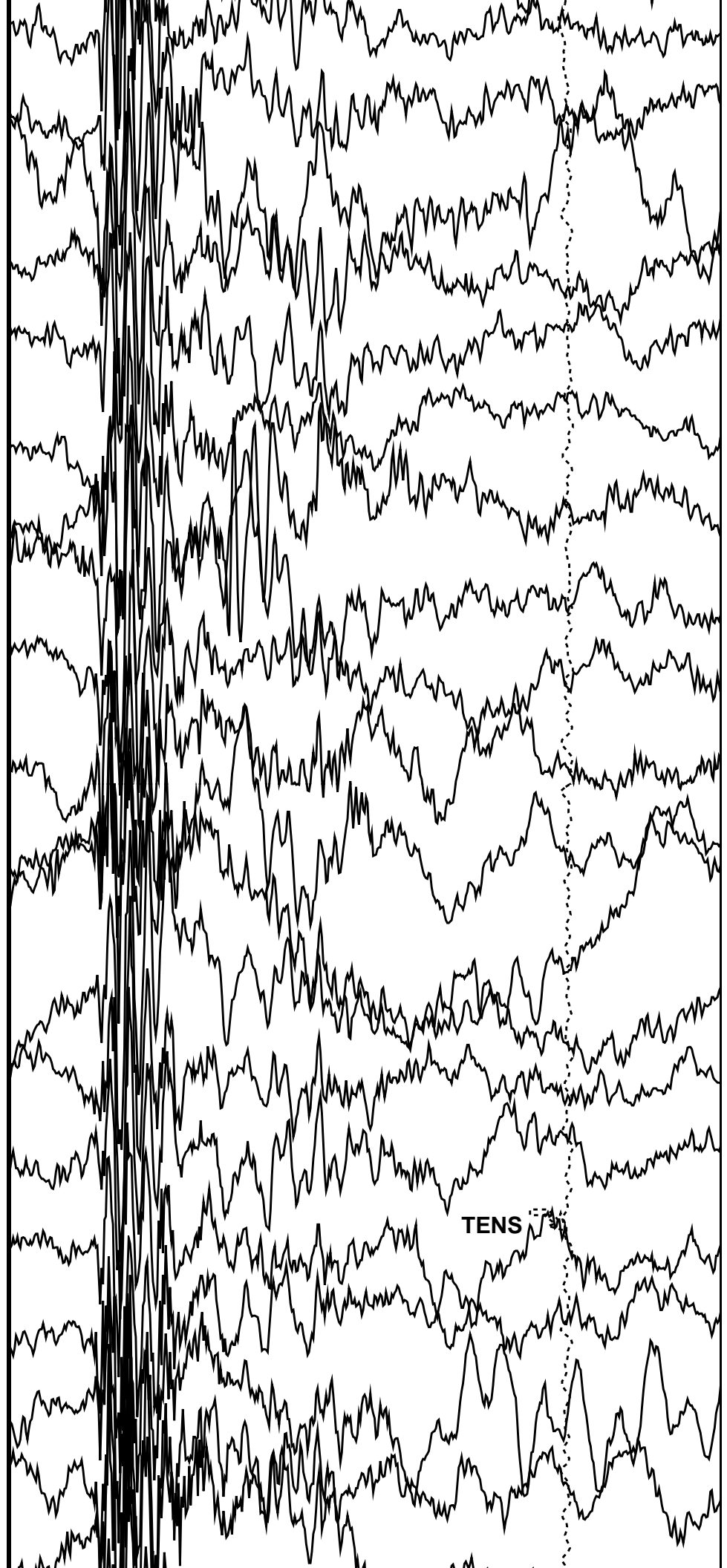
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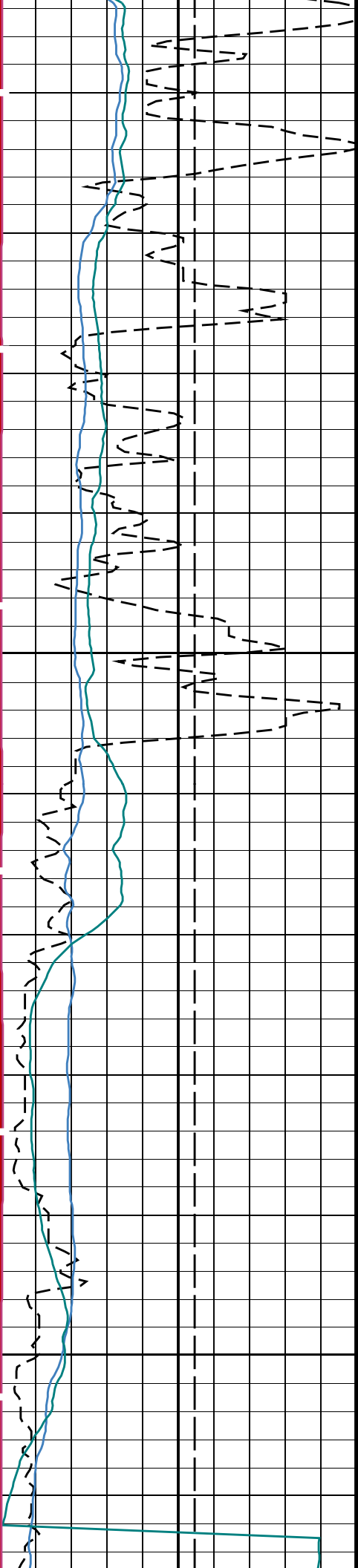


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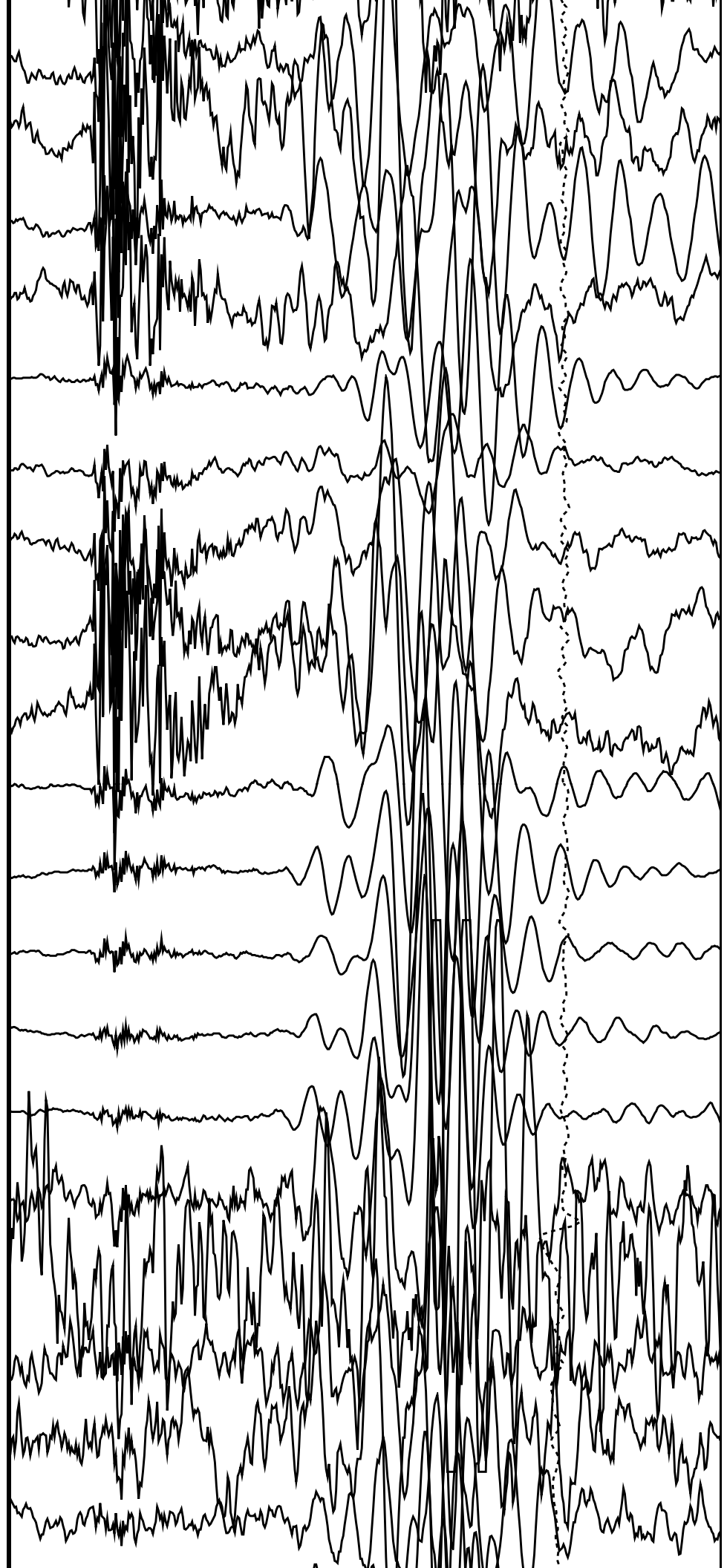


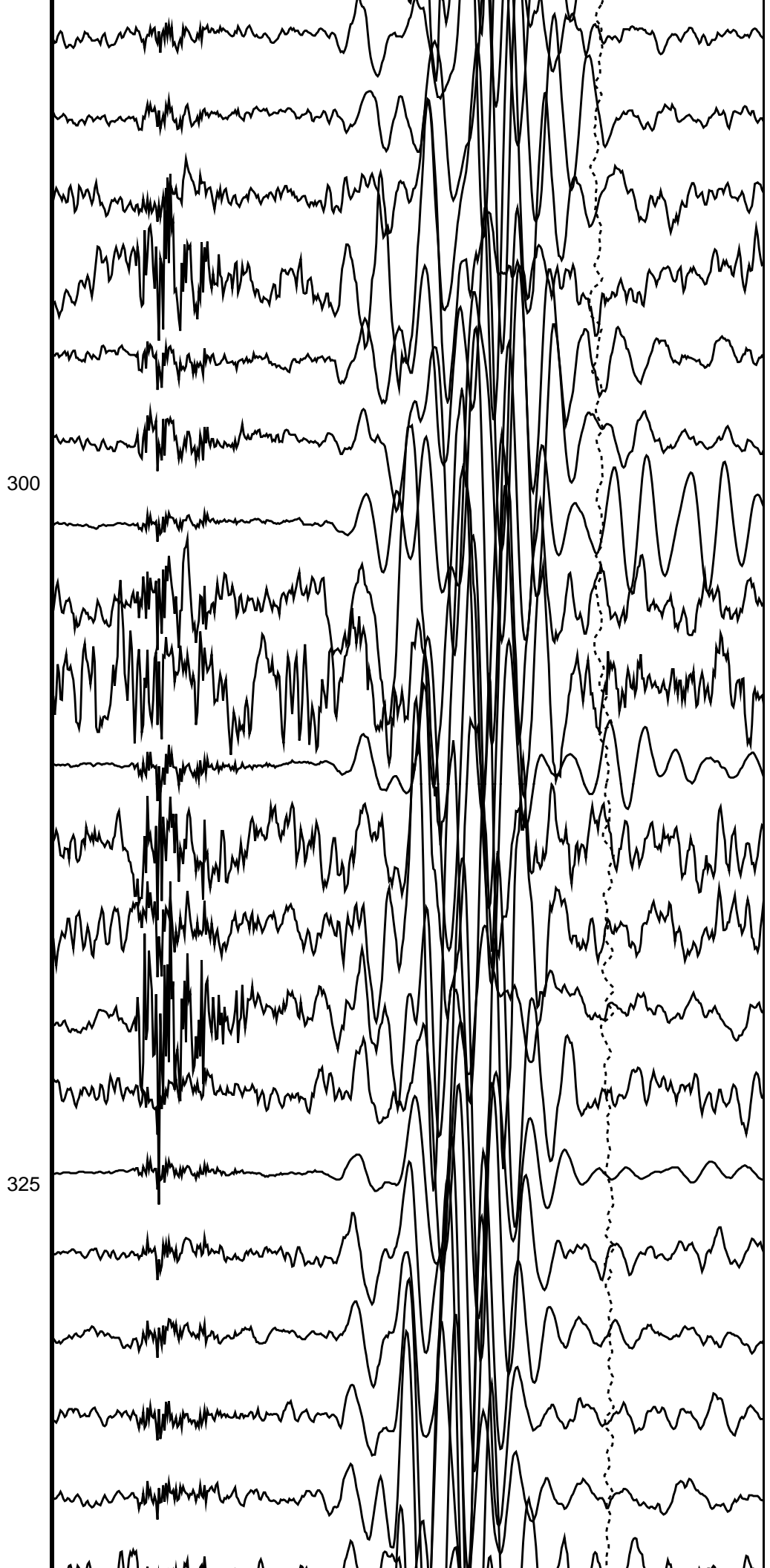
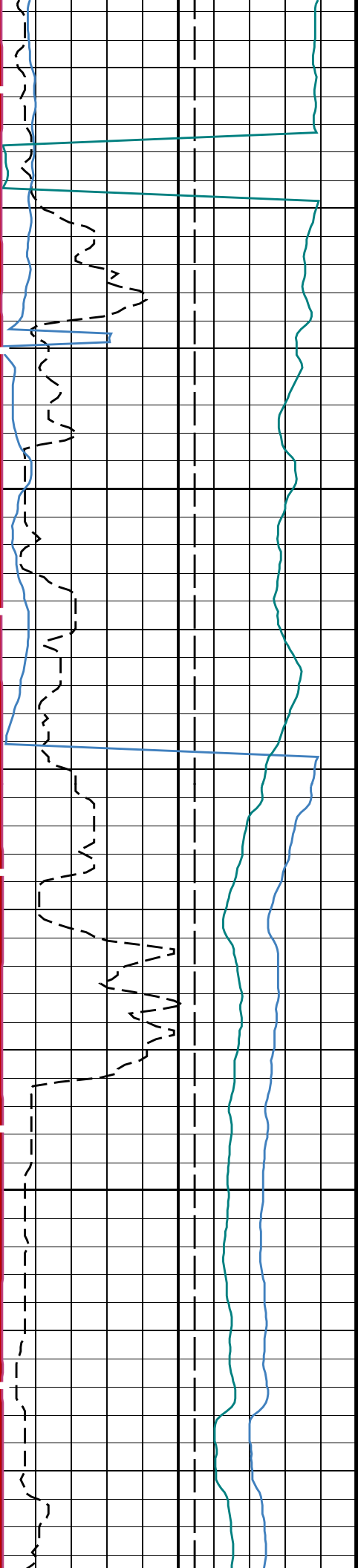
TENS



250

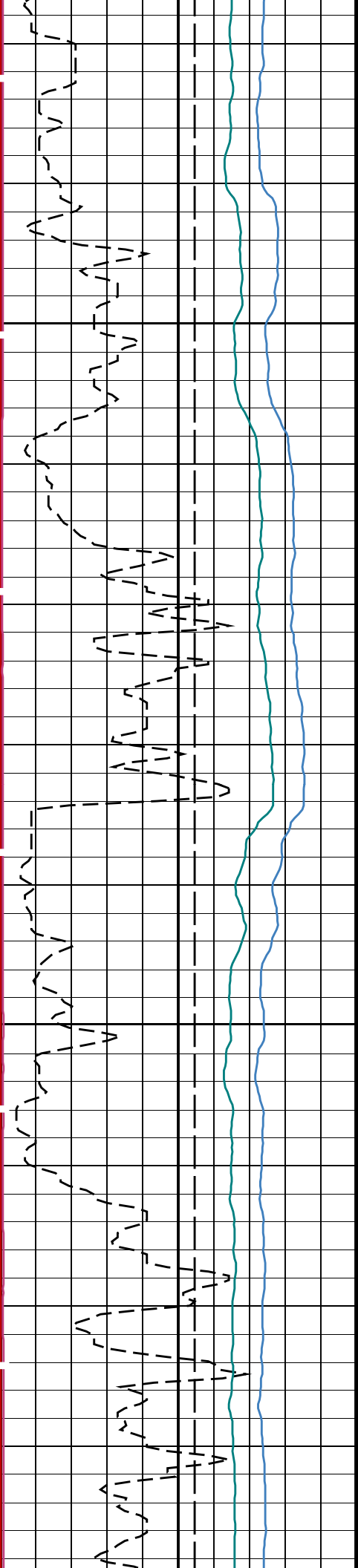
275





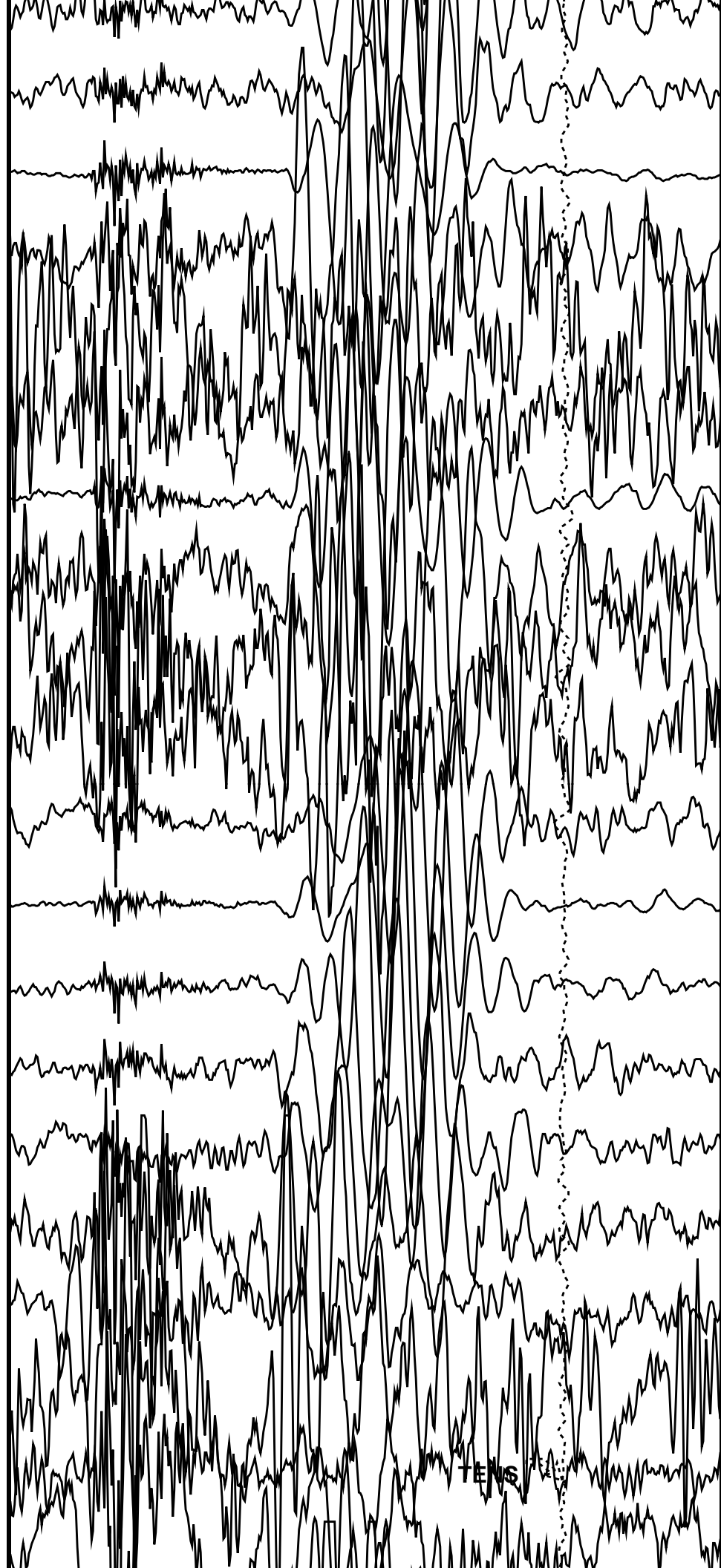
300

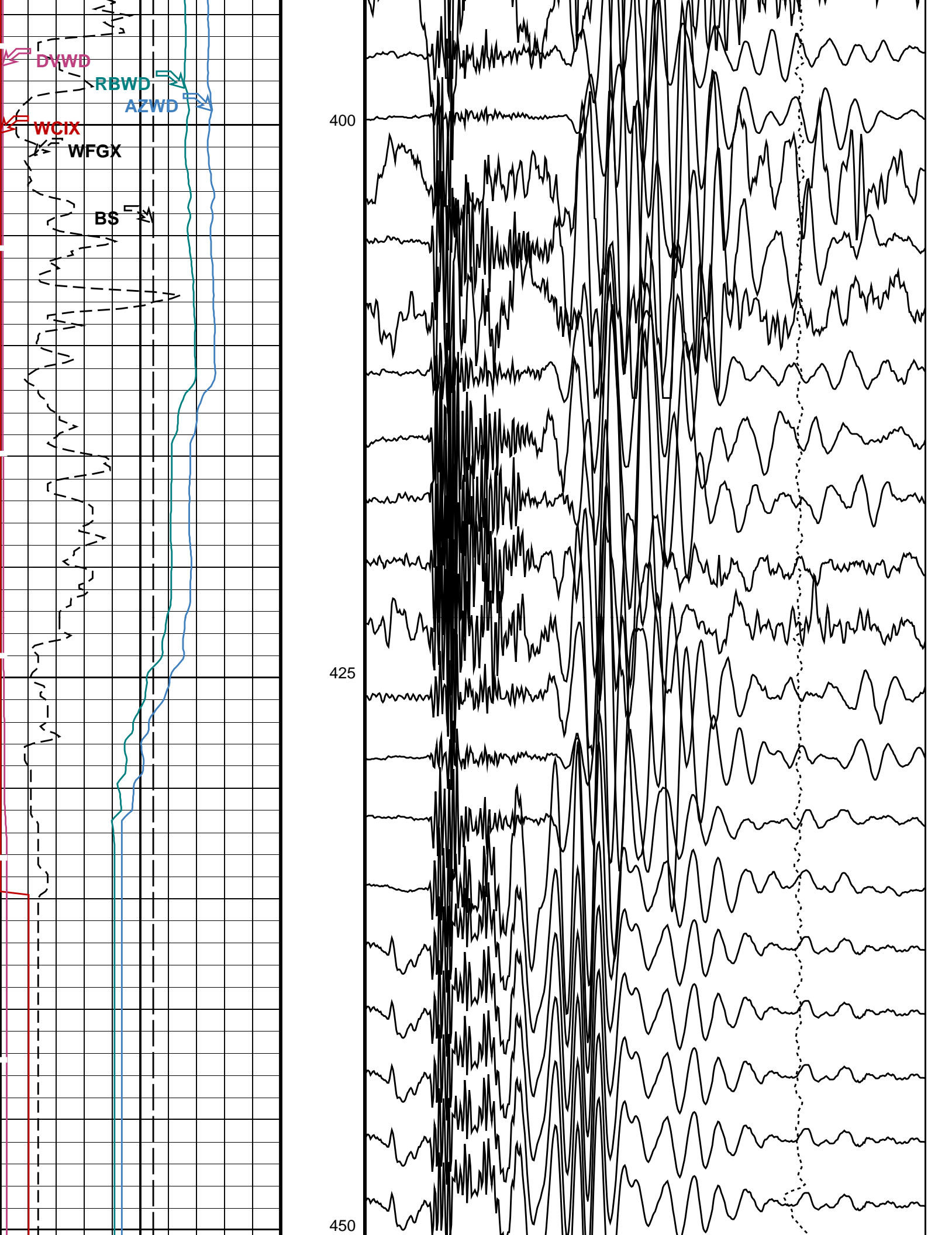
325



350

375





Bit Size (BS) (IN)		SAMX Waveforms (WFX)	
6	16	0	20000
SAMX Waveform Gain (WFGX) (-----)		Tension (TENS) (LBF)	
0	1000	10000	0
Waveform Data Copy Indicator X - Expert (WCIX)			
0	10		
Azimuth at DSST Waveform Depth (AZWD) (DEG)			
0	400		
Relative Bearing at DSST Waveform Depth (RBWD) (DEG)			
0	400		
Deviation at DSST Waveform Depth (DVWD) (DEG)			
0	100		

Sea Floor Depth Both Crossed Dipole (SAMX=BCR)

Uplog 2

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager - B			
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MTXG	Monopole Transmitter Geometry	186	IN
NWIX	Number Waveform Items X	32	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	BCR	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFMX	Waveform Mode X	W1	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
System and Miscellaneous			
BS	Bit Size	11.438	IN
DO	Depth Offset for Playback	-2509.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_WFX_WAVES

Vertical Scale: 1:200

Graphics File Created: 07-Jan-2015 02:23

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_024LUP	FN:42	PRODUCER	06-Jan-2015 18:12	2960.4 M	2497.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_032PUP	FN:52	PRODUCER	07-Jan-2015 02:23
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Input DLIS Files

DEFAULT FMS_DSI_NGS_022LUP FN:38 PRODUCER 06-Jan-2015 17:07 2960.4 M 2636.7 M

Output DLIS Files

DEFAULT FMS_DSI_NGS_030PUP FN:50 PRODUCER 07-Jan-2015 02:13 450.3 M 126.6 M

OP System Version: 19C0-187

MEST-B 19C0-187
 DSST-B 19C0-187
 HNGS-BA 19C0-187

DTA-A 19C0-187
 HNGC-B 19C0-187
 EDTC-B SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S

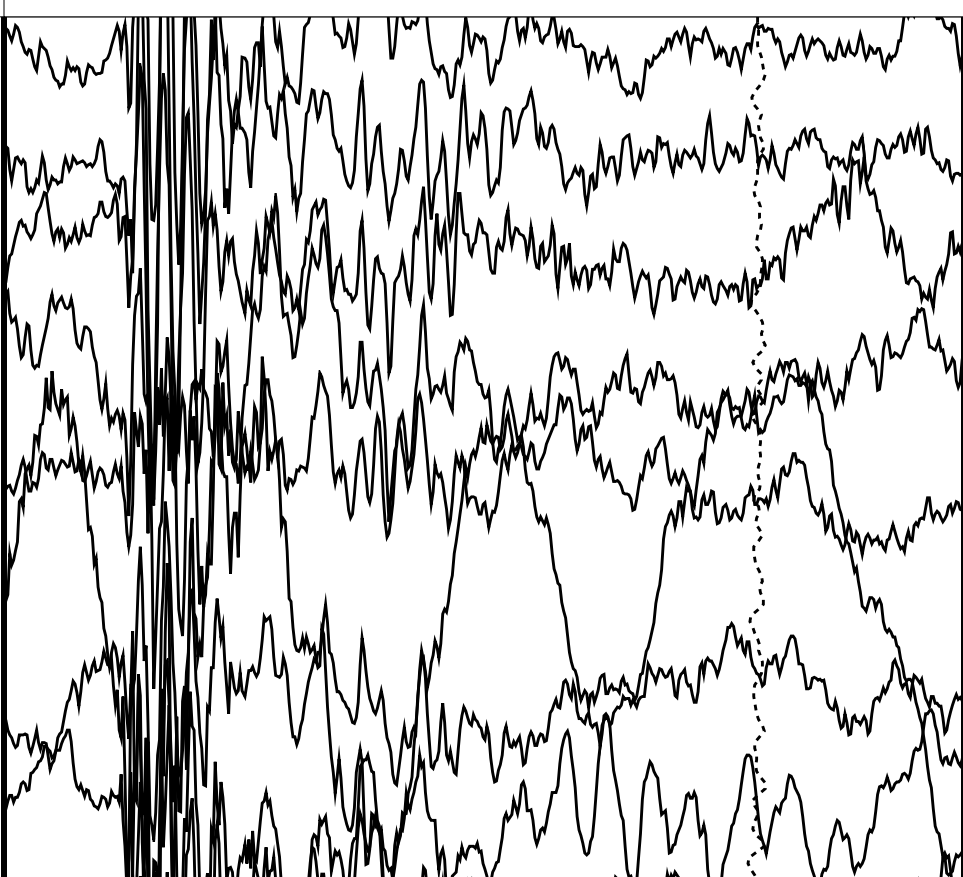
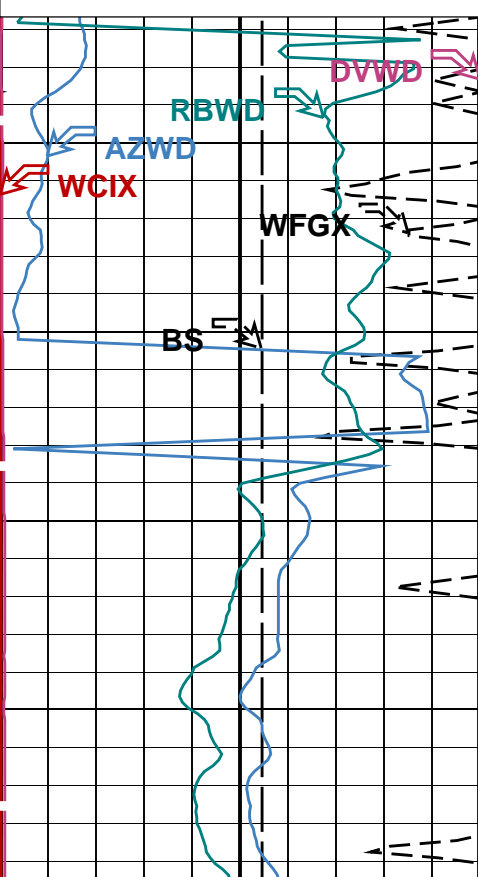
Deviation at DSST Waveform Depth (DVWD)		
0	(DEG)	100
Relative Bearing at DSST Waveform Depth (RBWD)		
0	(DEG)	400
Azimuth at DSST Waveform Depth (AZWD)		
0	(DEG)	400
Waveform Data Copy Indicator X - Expert (WCIX)		
0	(----)	10
SAMX Waveform Gain (WFGX)		
0	(----)	1000
Bit Size (BS)		
6	(IN)	16

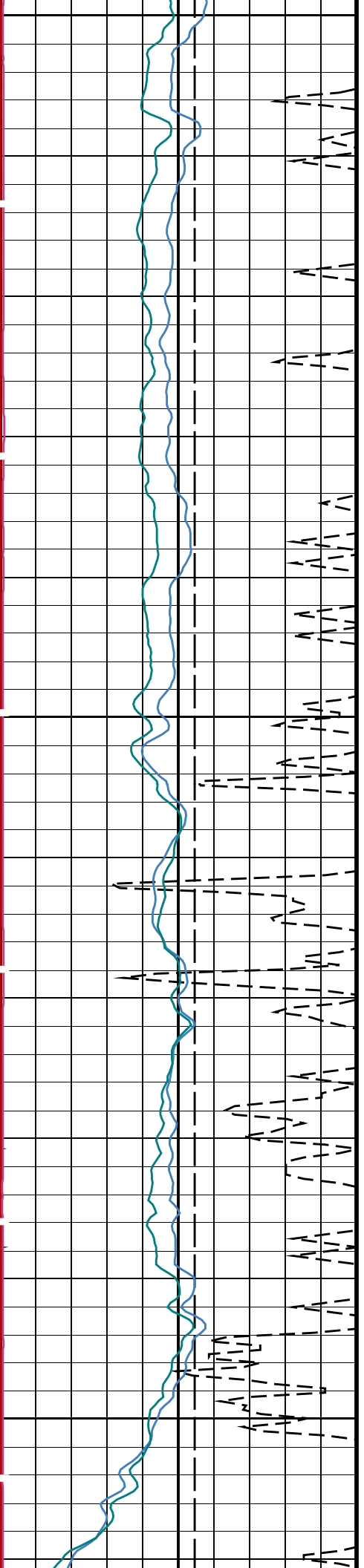
Sea Floor Depth SAMX=BCR Crossed Dipole

Uplug 1

Tension (TENS)
 10000 (LBF) 0

SAMX Waveforms (WFX)
 0 (US) 20000

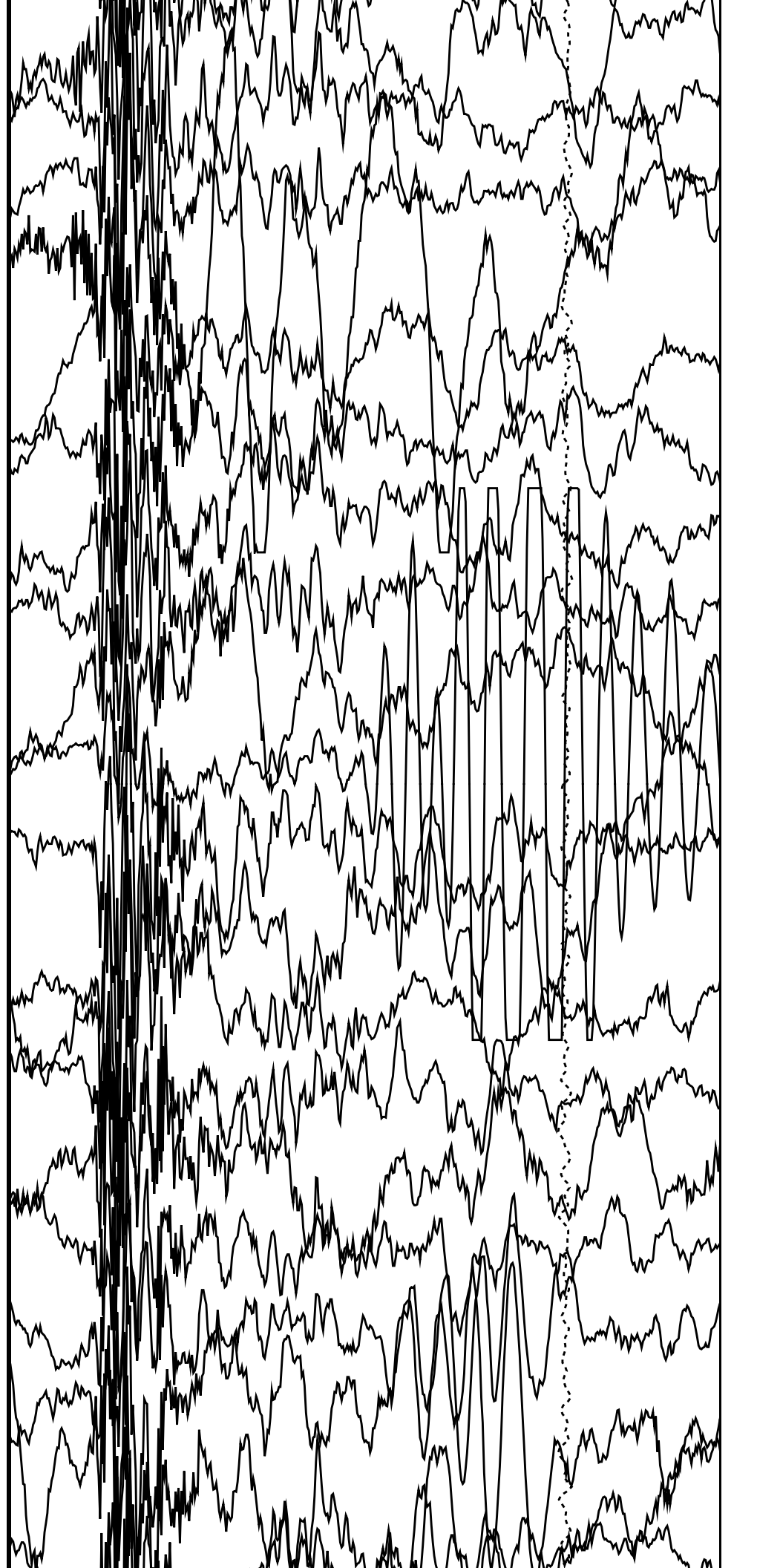


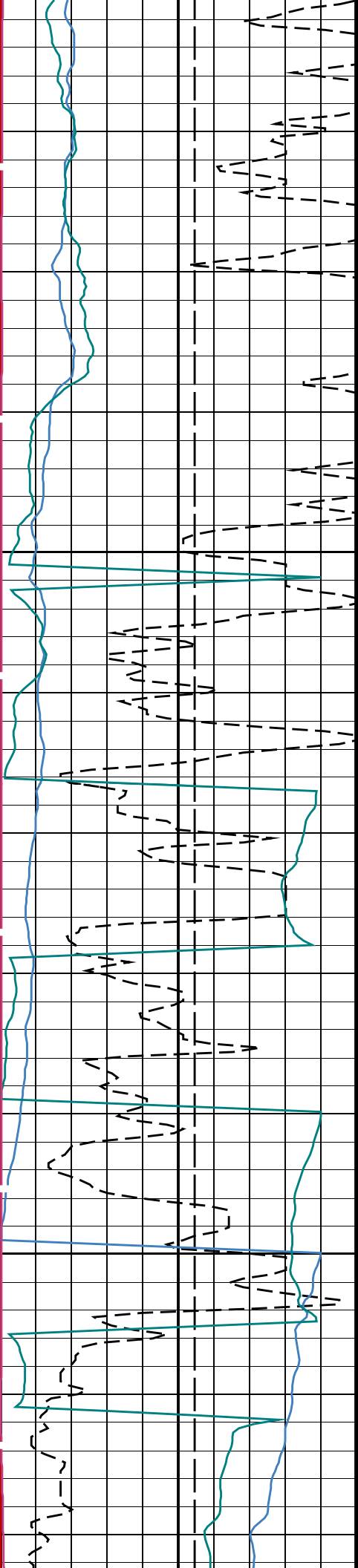


150

175

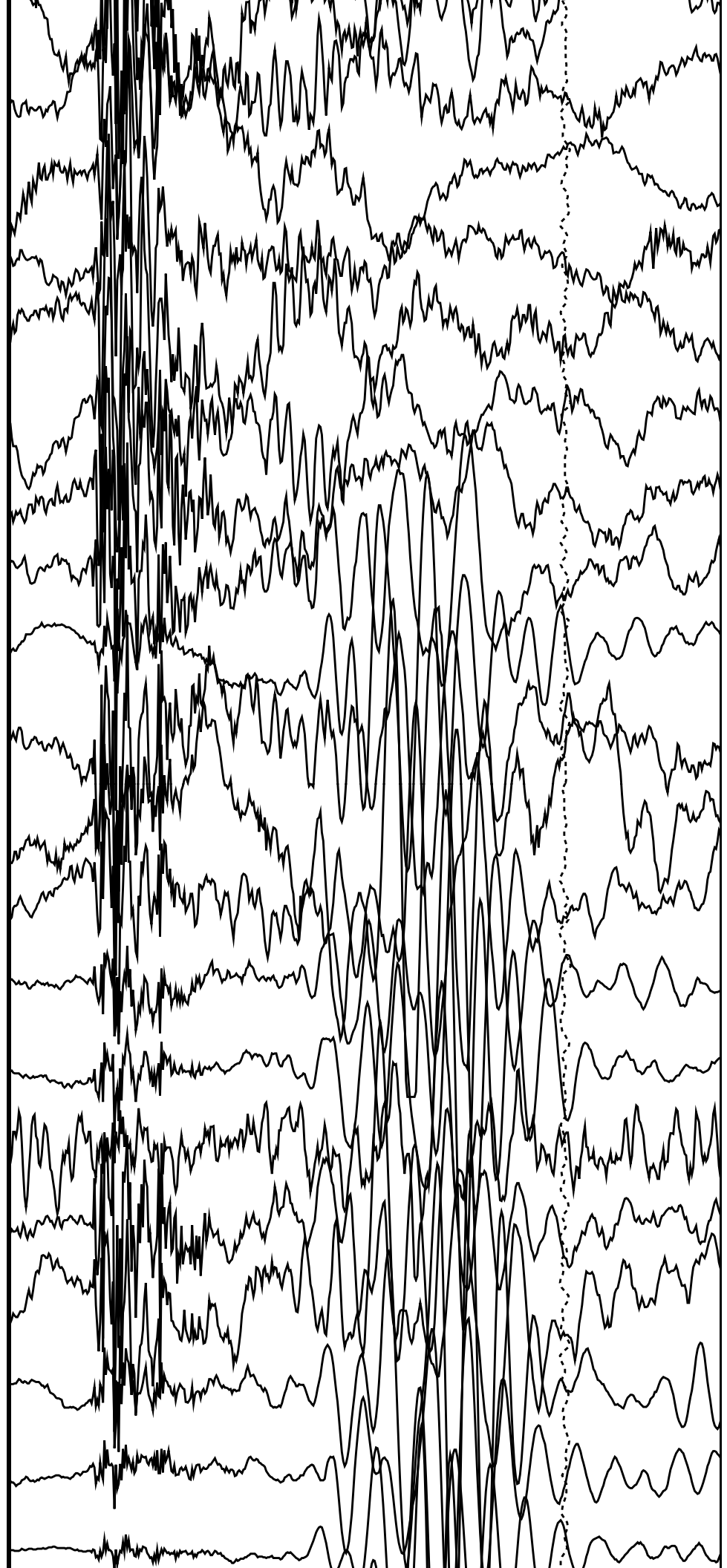
200





225

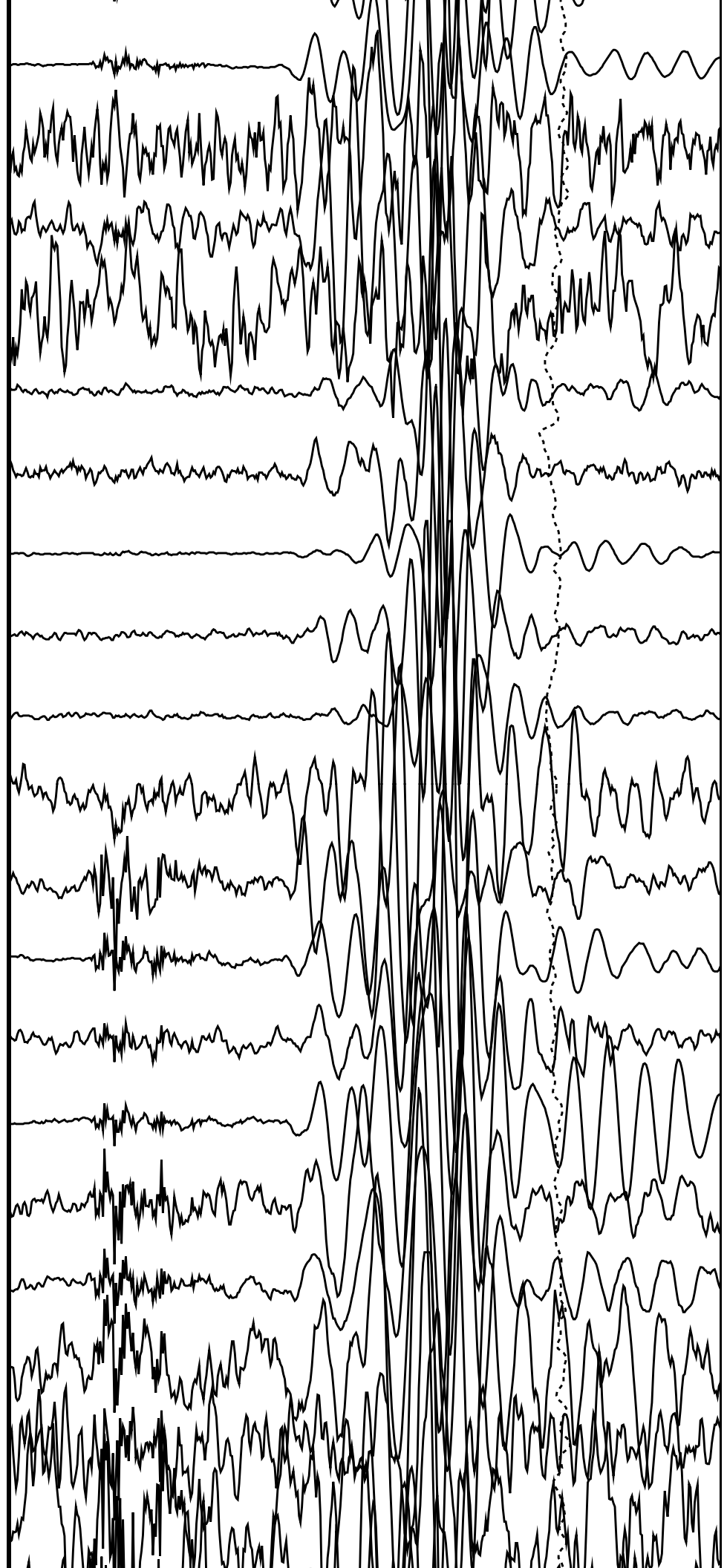
250

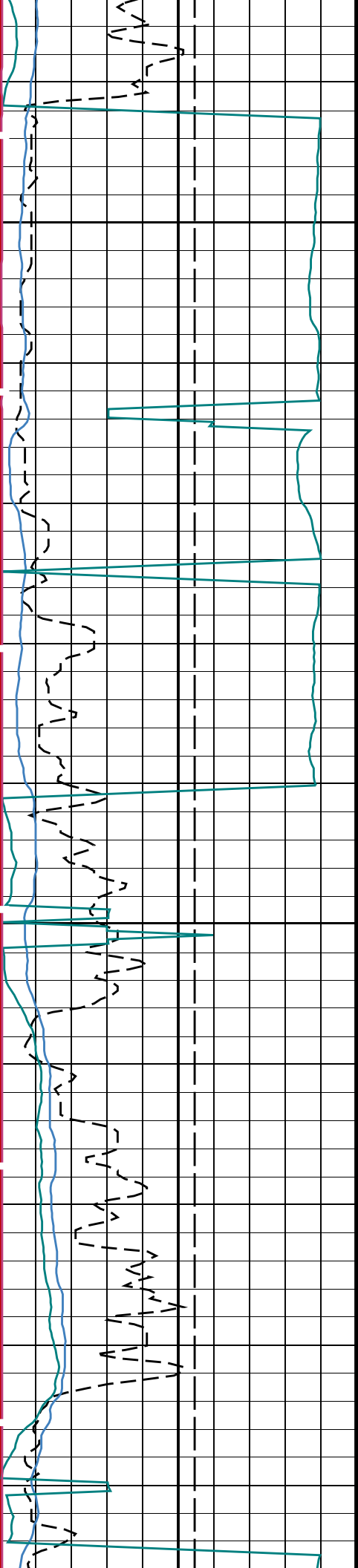




275

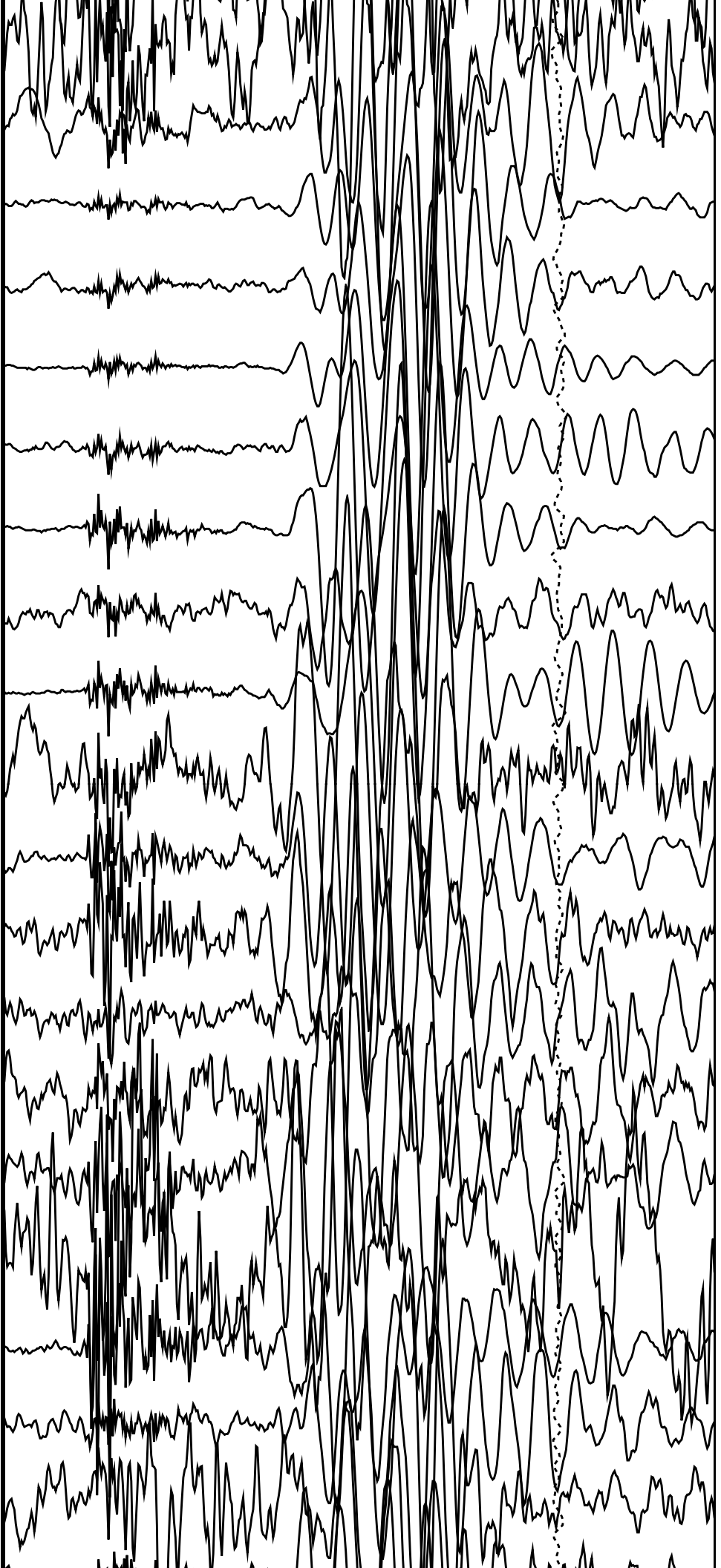
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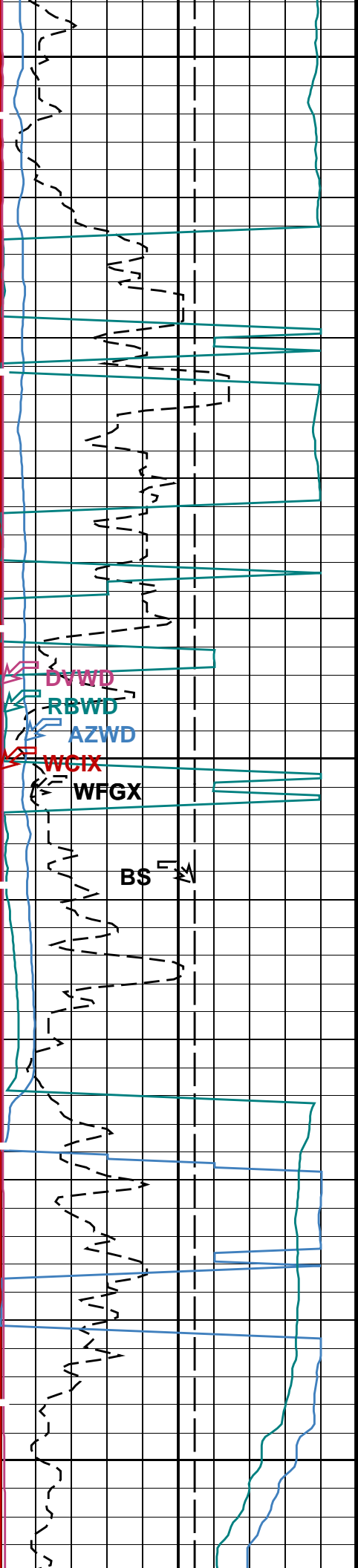




325

350

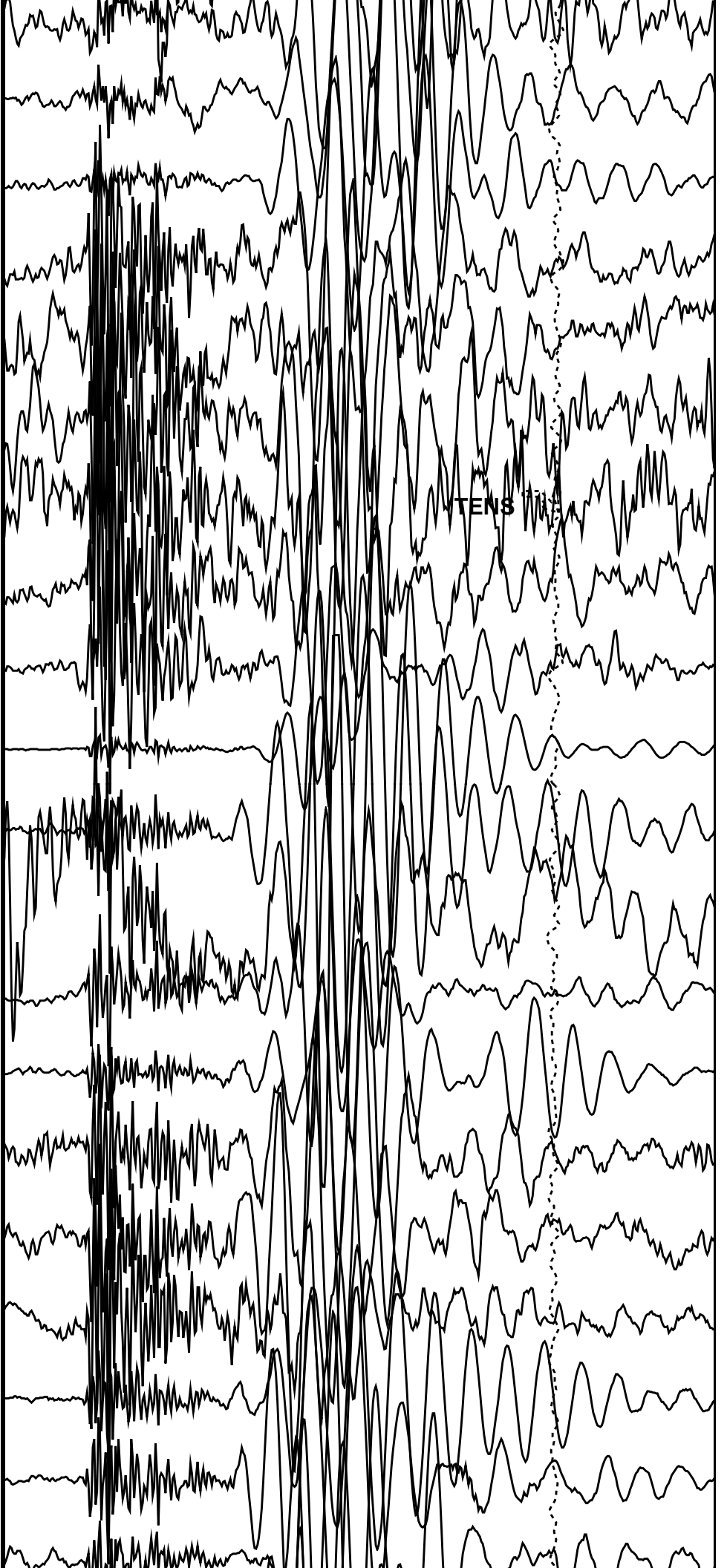




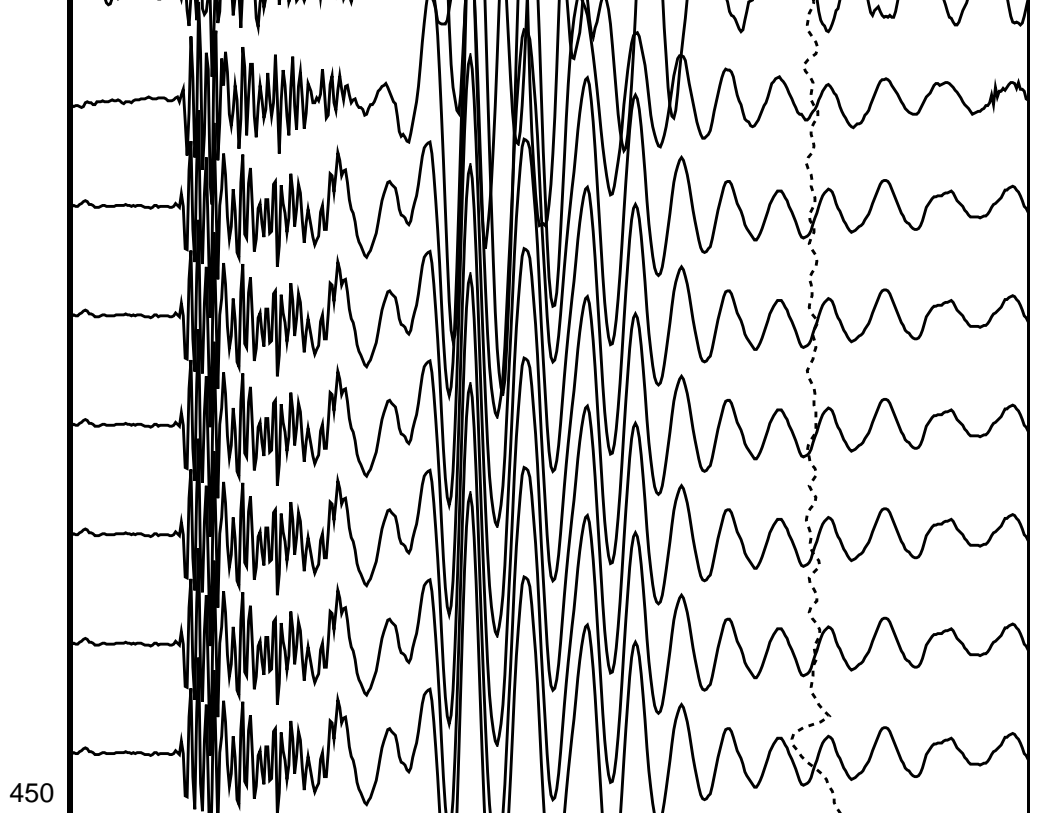
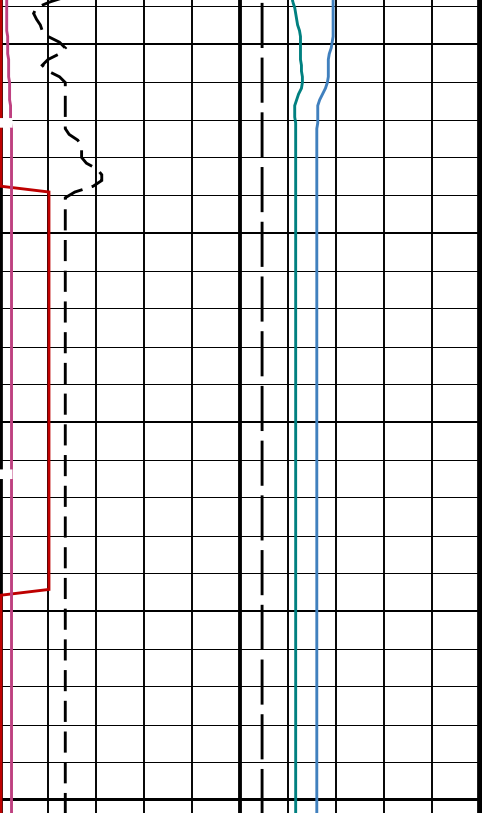
375

400

425



TENS



Bit Size (BS)
(IN) 6 16

SAMX Waveforms (WFX)
(US) 0 20000

SAMX Waveform Gain (WFGX)
(----) 0 1000

Tension (TENS)
(LBF) 10000 0

Waveform Data Copy Indicator X – Expert (WCIX)
(----) 0 10

Sea Floor Depth SAMX=BCR Crossed Dipole
Uplug 1

Azimuth at DSST Waveform Depth (AZWD)
(DEG) 0 400

Relative Bearing at DSST Waveform Depth (RBWD)
(DEG) 0 400

Deviation at DSST Waveform Depth (DVWD)
(DEG) 0 100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MTXG	Monopole Transmitter Geometry	186	IN
NWIX	Number Waveform Items X	32	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert		
	BCR		
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFXG	Waveform Mode X	194	

WFMX	DIR: Directional Survey Computation	wavform mode x	W1
SPVD	TVD of Starting Point		0 M
TIMD	Along-hole depth of Tie-in Point		0 M
TIVD	TVD of Tie-in Point		0 M
System and Miscellaneous			
BS	Bit Size	11.438	IN
DO	Depth Offset for Playback	-2510.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_WFX_WAVES Vertical Scale: 1:200 Graphics File Created: 07-Jan-2015 02:13

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:38	PRODUCER	06-Jan-2015 17:07	2960.4 M	2636.7 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_030PUP	FN:50	PRODUCER	07-Jan-2015 02:13		
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Company: Integrated Ocean Discovery Program Well: Expedition 353, Site U1445A BB-5

Input DLIS Files

DEFAULT	FMS_DSI_NGS_024LUP	FN:42	PRODUCER	06-Jan-2015 18:12	2960.4 M	2497.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_032PUP	FN:52	PRODUCER	07-Jan-2015 02:23	451.1 M	-11.7 M
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OP System Version: 19C0-187

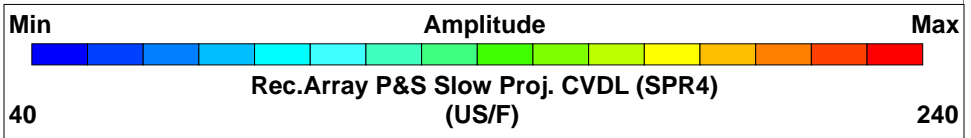
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

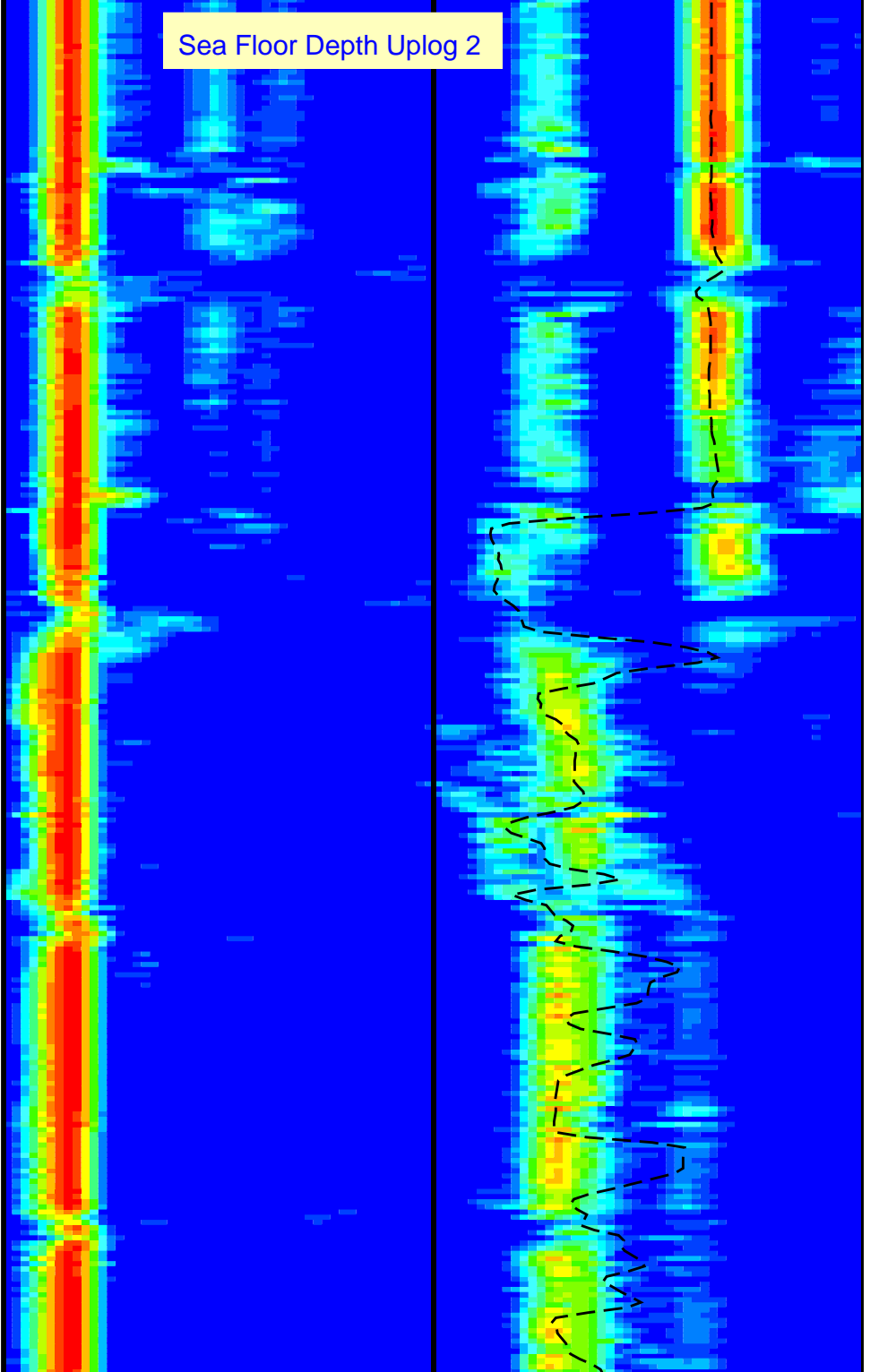
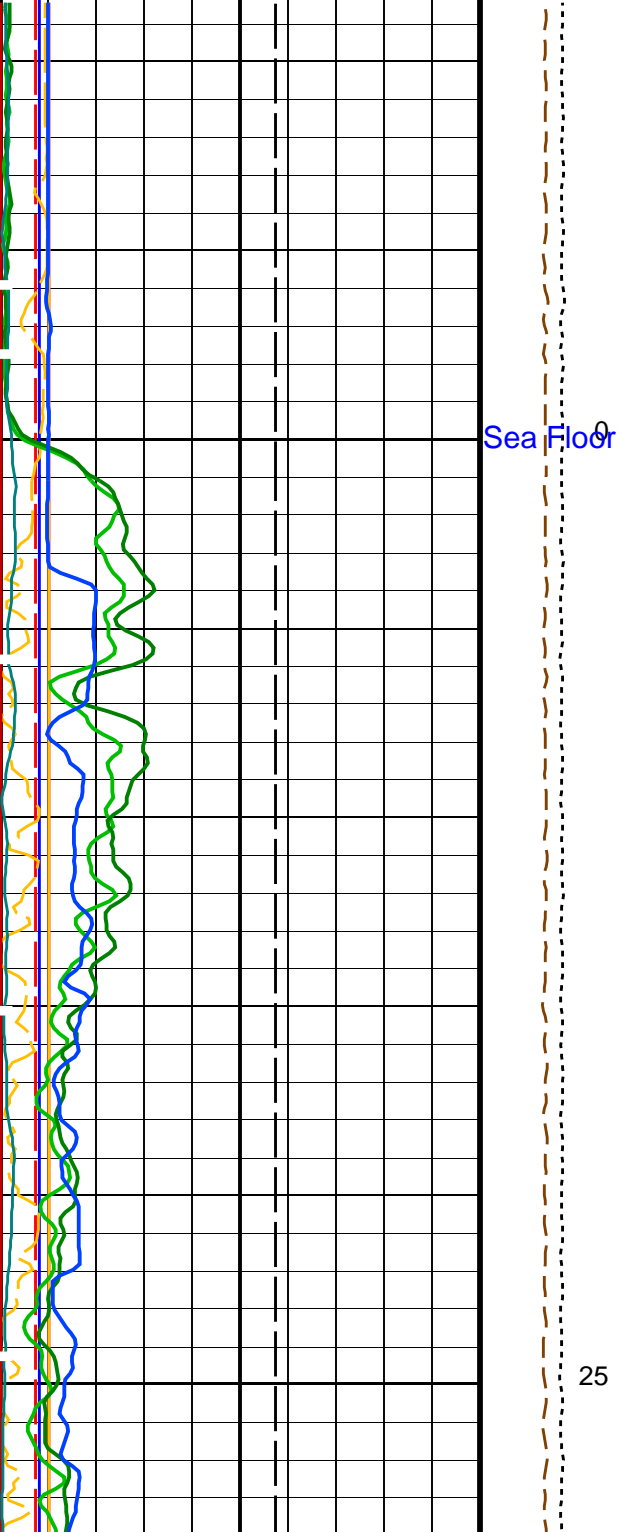
Time Mark Every 60 S

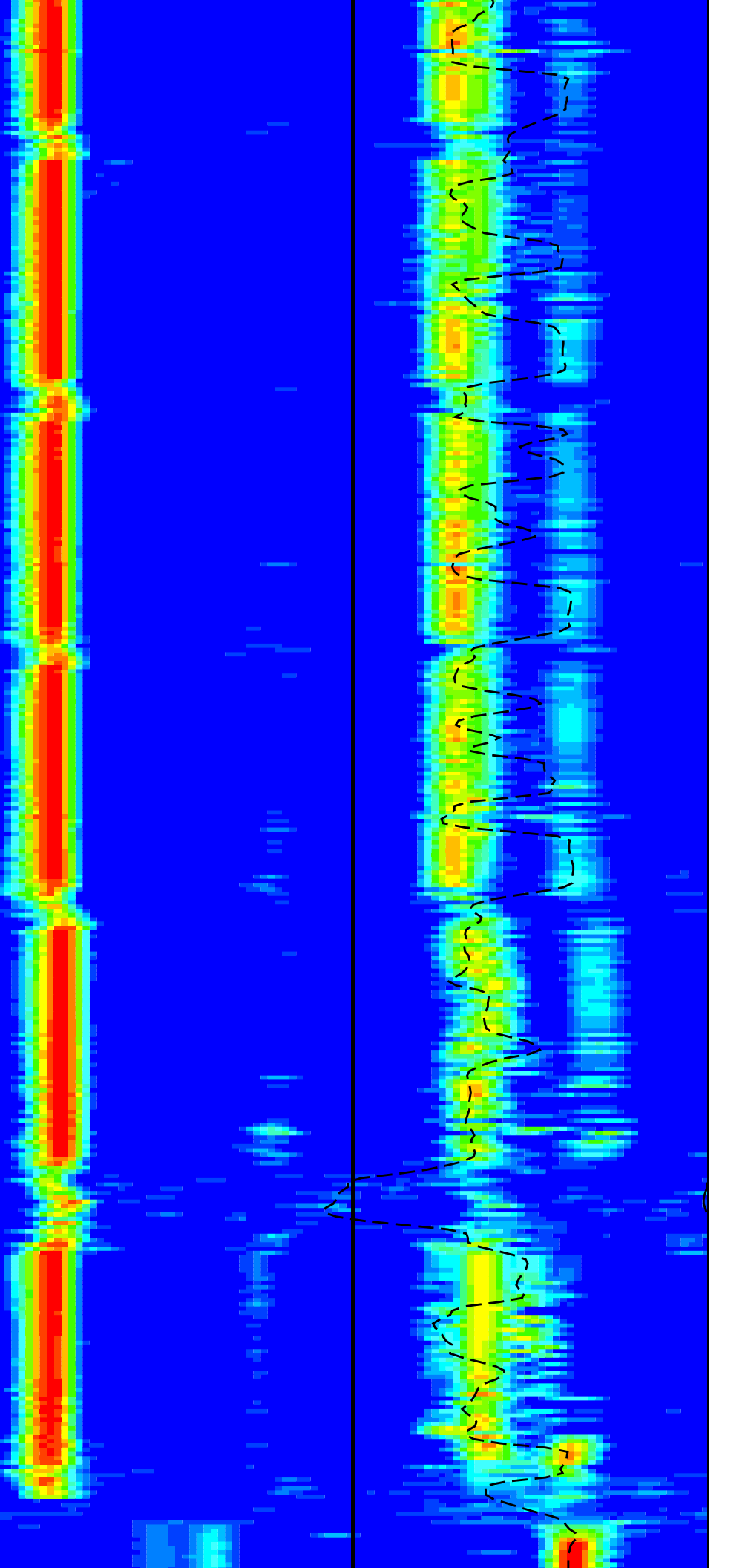
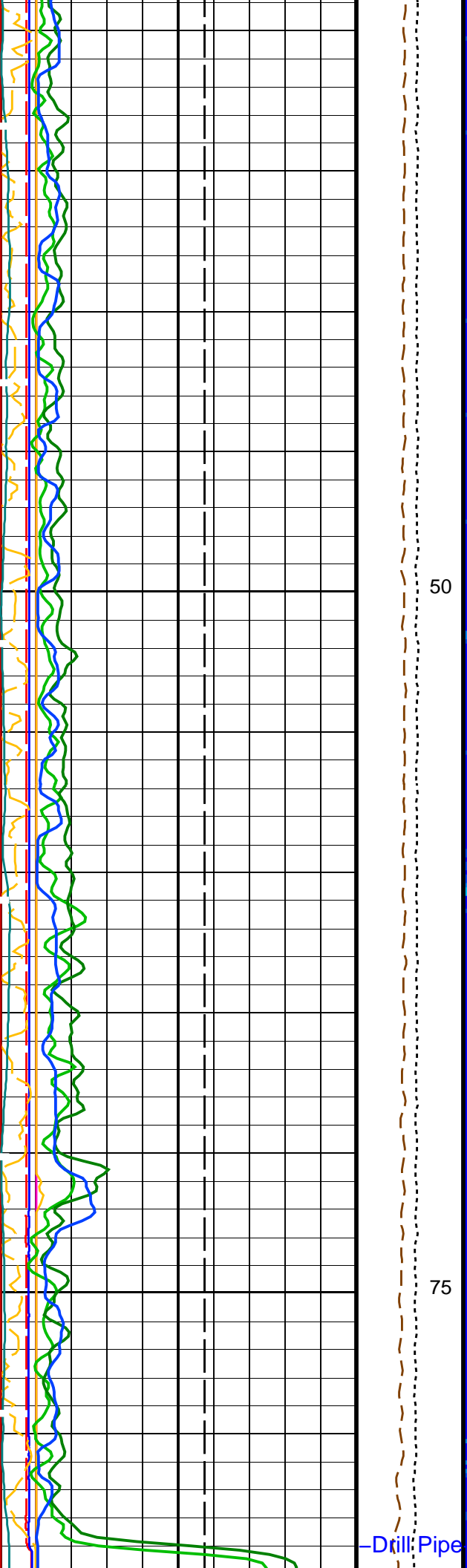
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----)	9
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----)	10
Peak Coherence / RA - Lower Dipole (CHR1)		
0	(----)	10
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Gamma Ray (GR_EDTC)		
0	(GAPI)	100

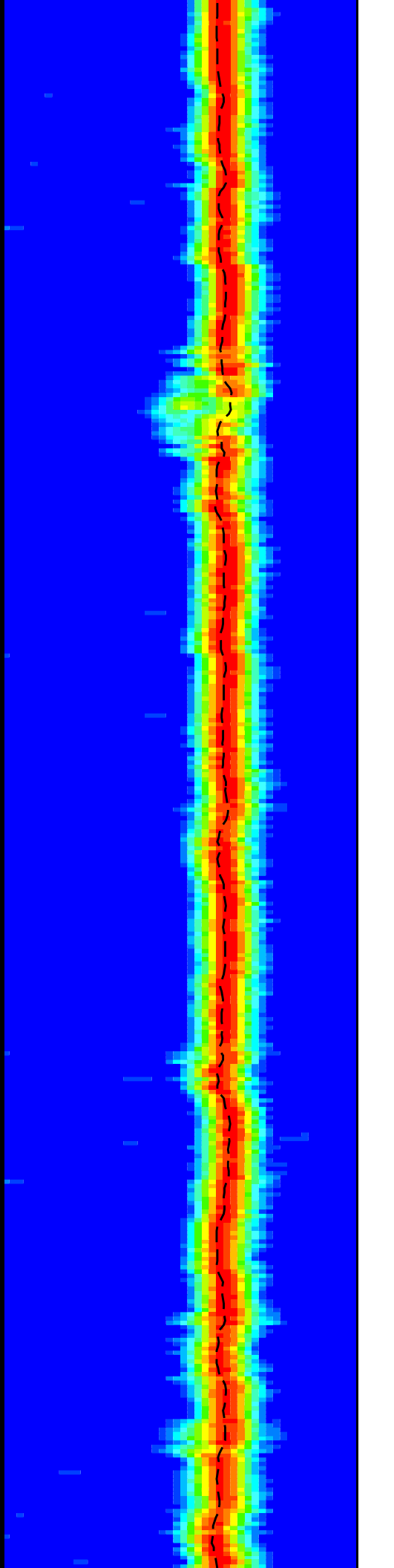
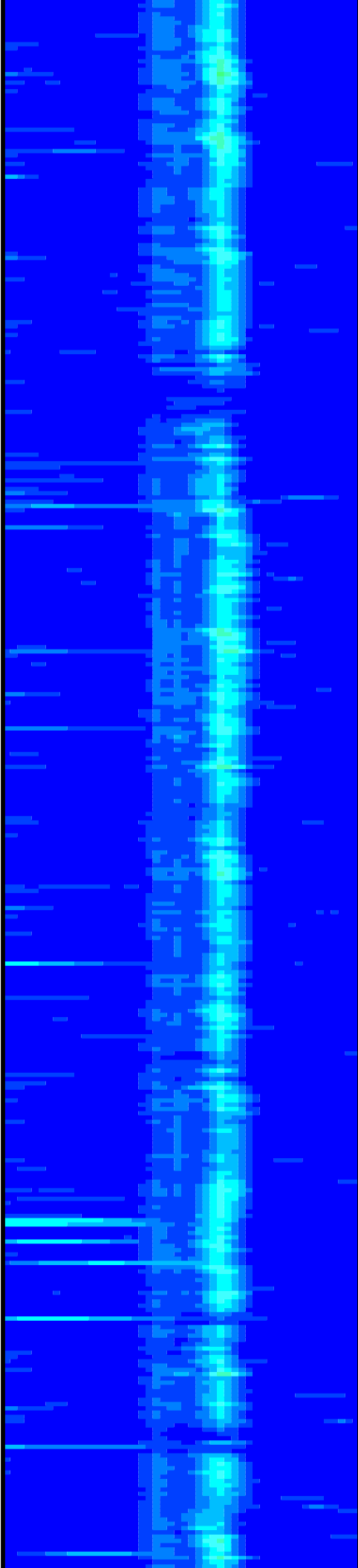
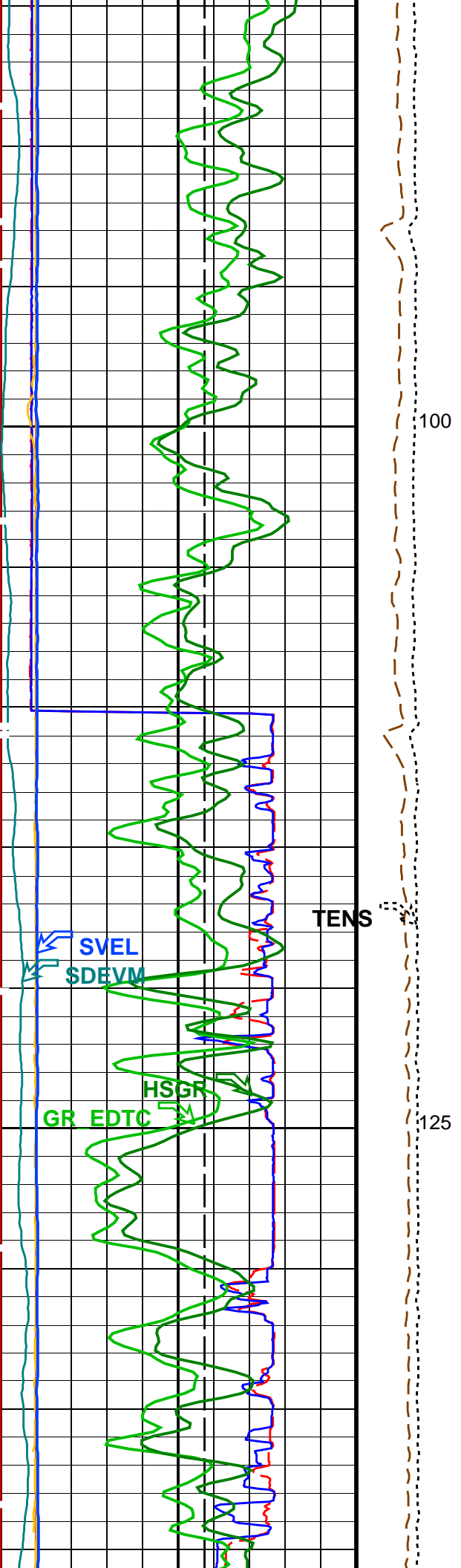
Sonde Deviation (SDEVM)		
0	(DEG)	10
Caliper 2 (C2)		
0	(IN)	20
Caliper 1 (C1)		
0	(IN)	20
Bit Size (BS)		
0	(IN)	20

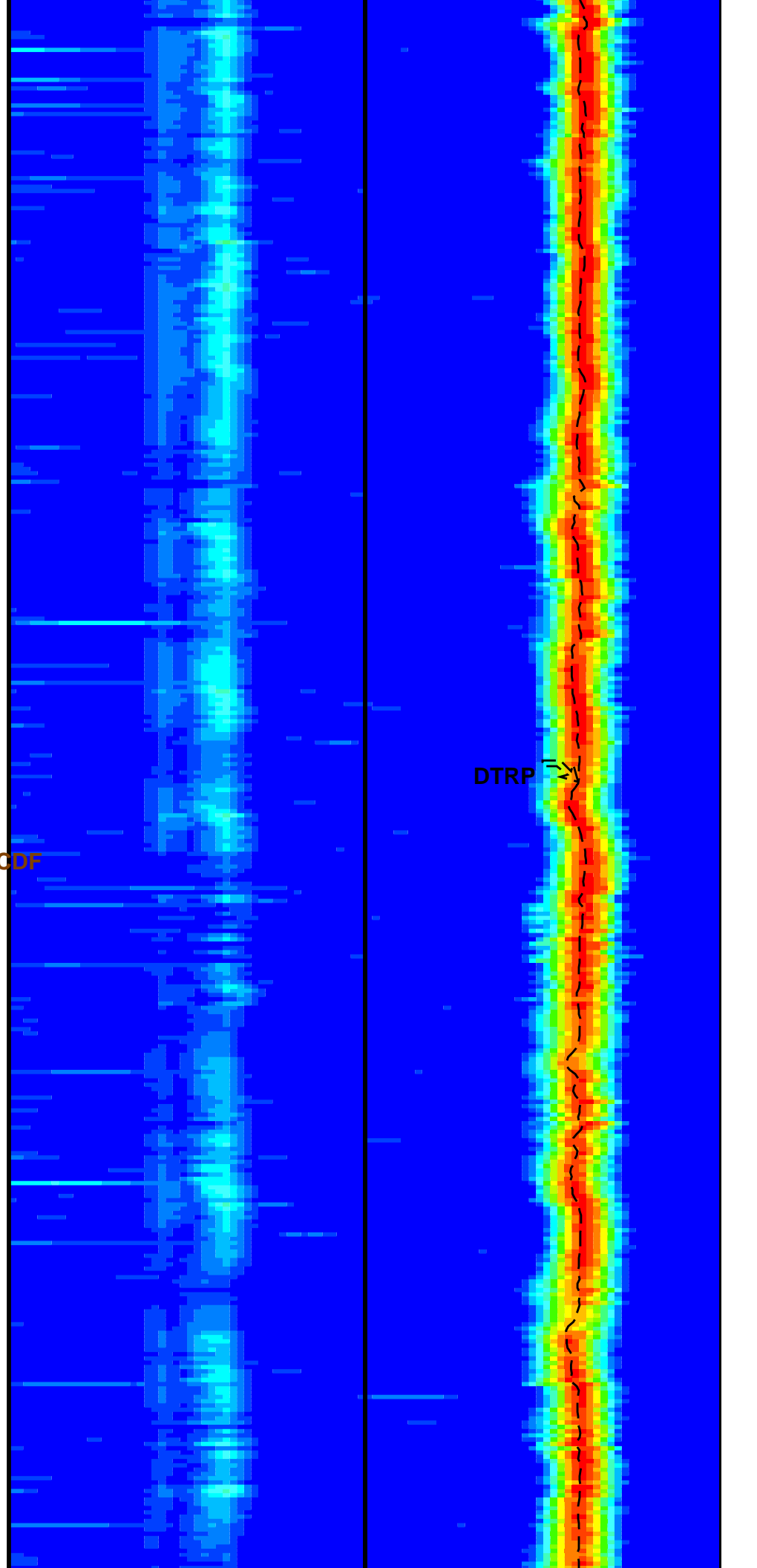
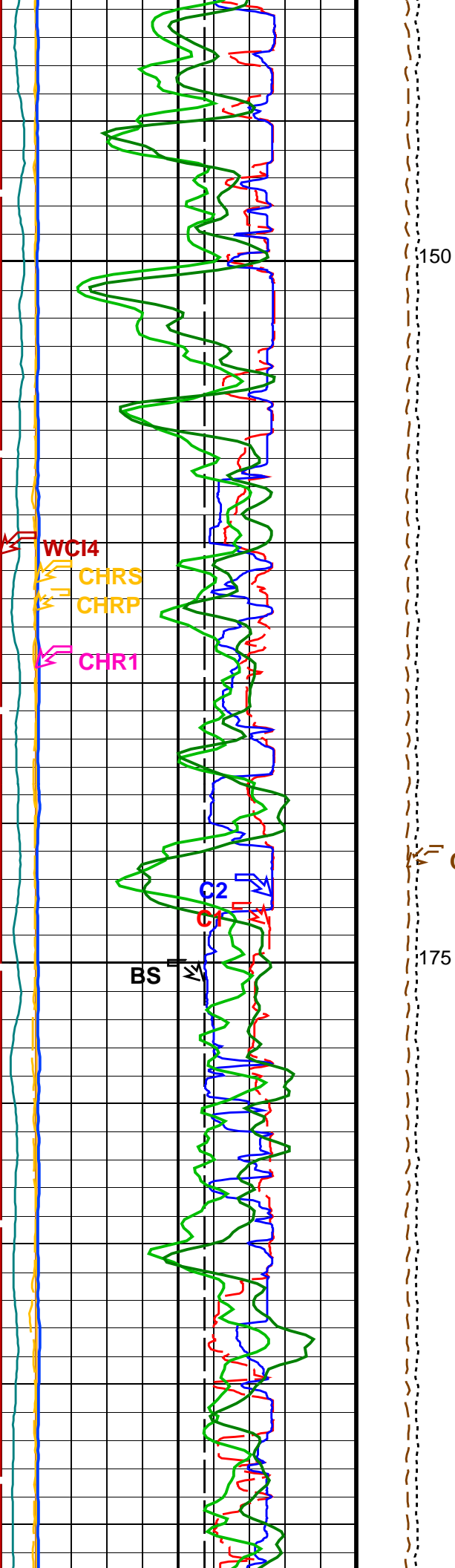


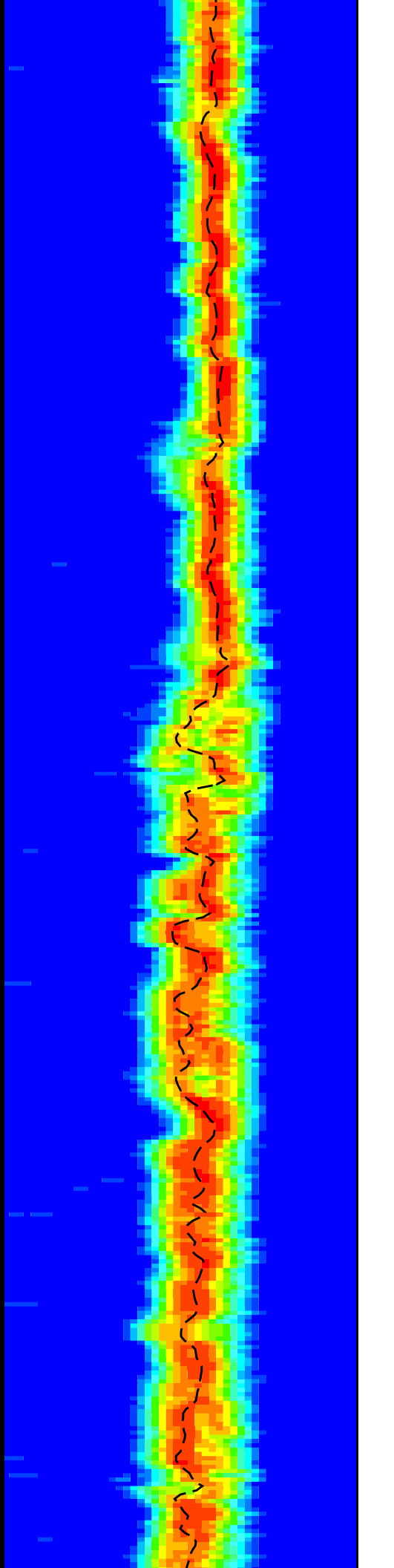
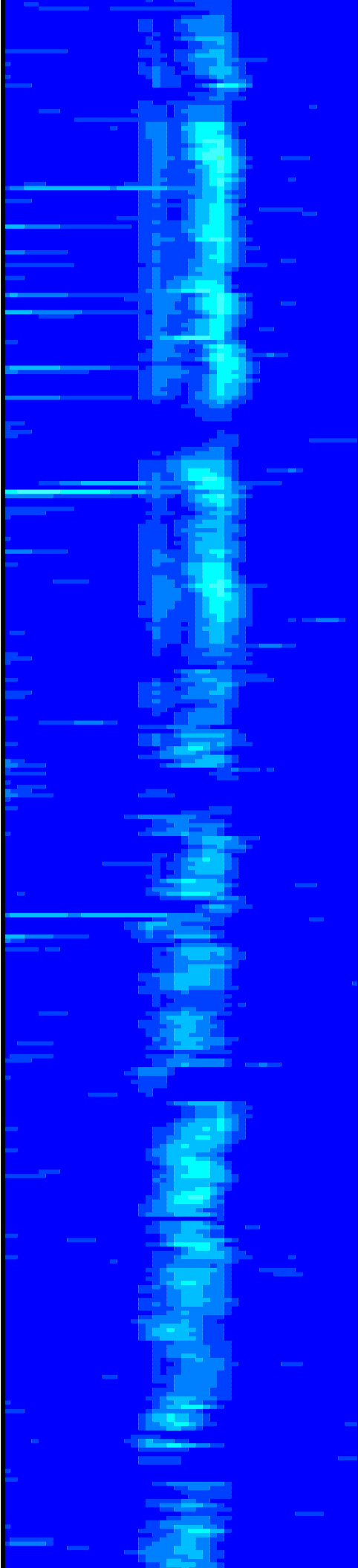
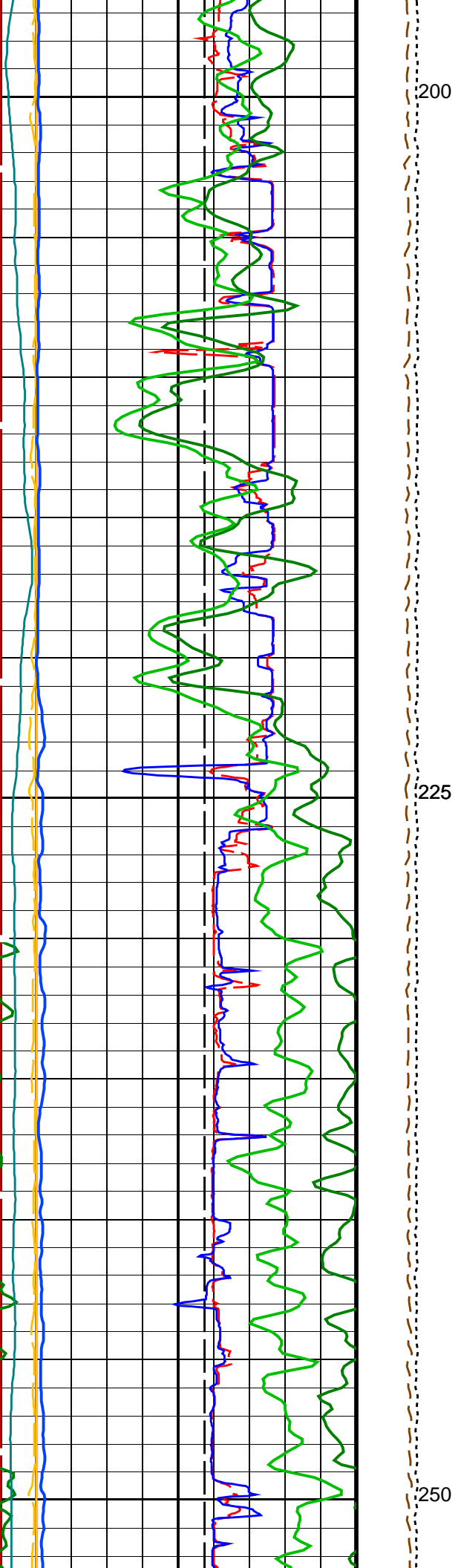
Calibrated Downhole Force (CDF) (LBF)	Delta-T Shear / RA - P & S (DTRS) (US/F)
3000 0	40 240
Tension (TENS) (LBF)	Delta-T Comp / RA - P & S (DTRP) (US/F)
10000 0	40 240

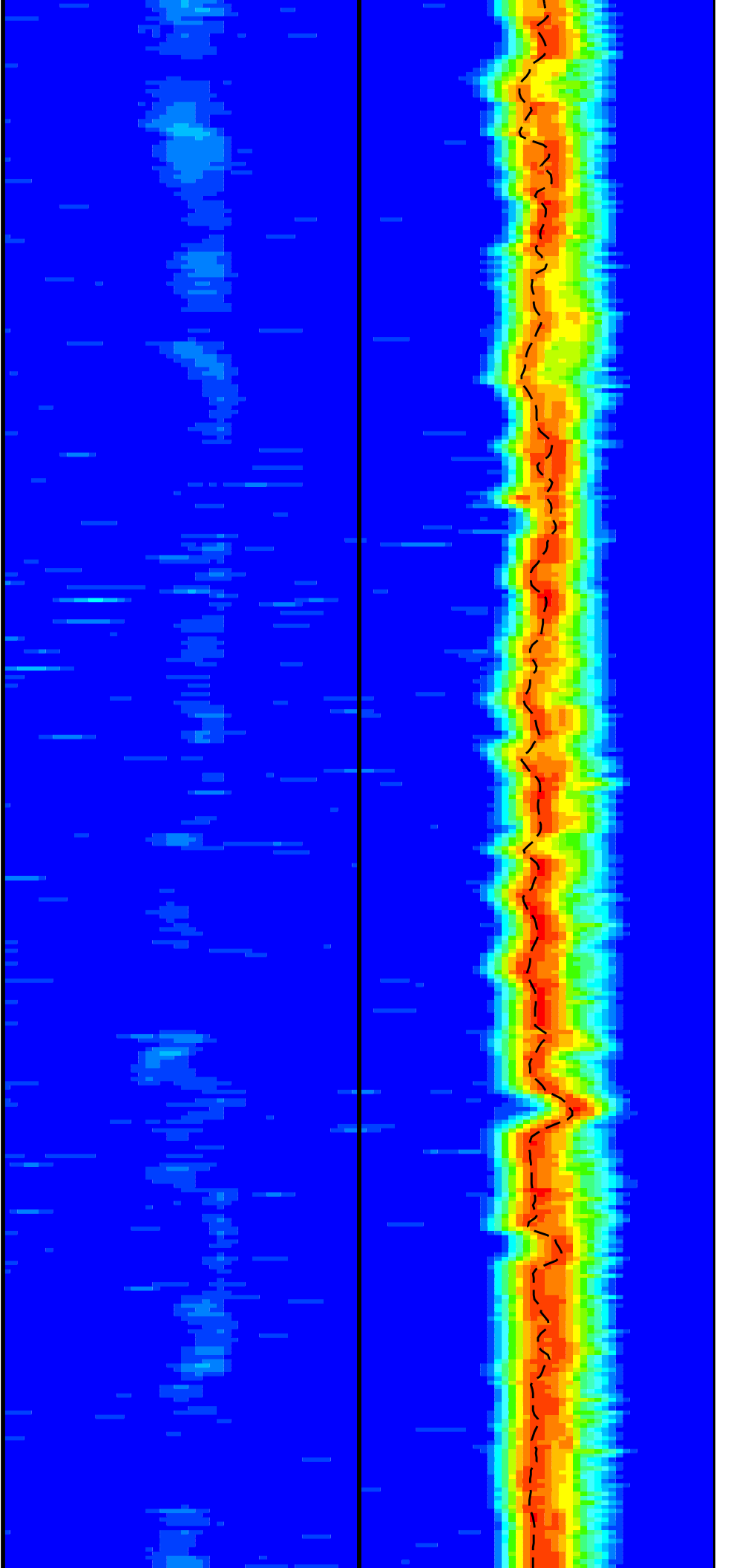
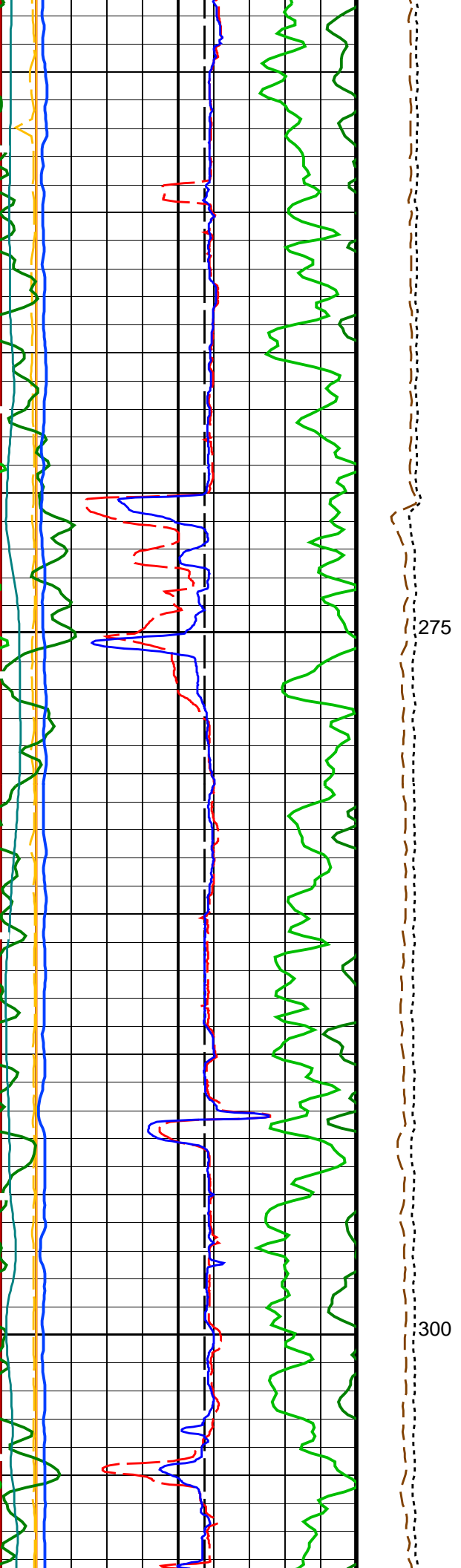


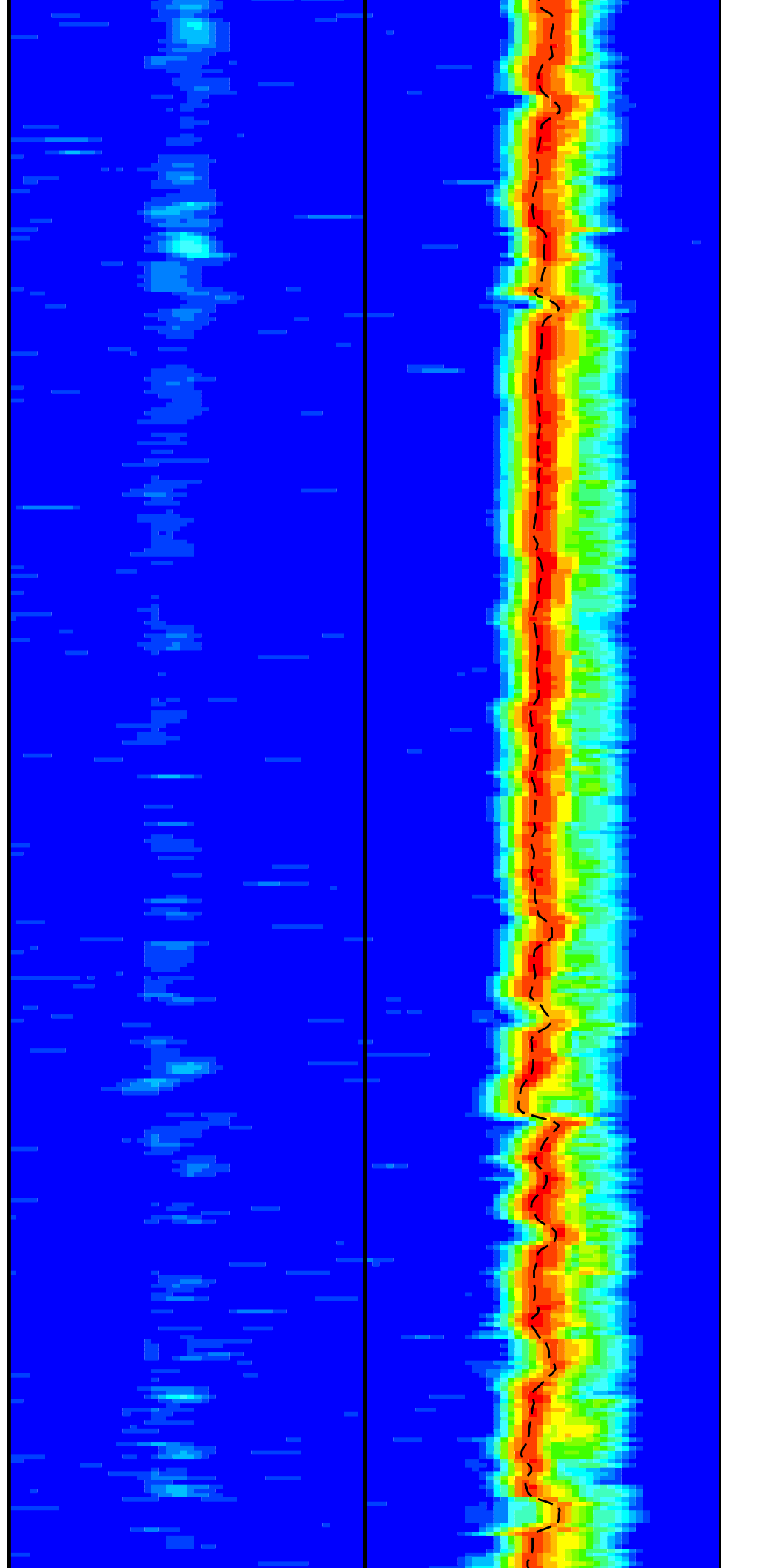
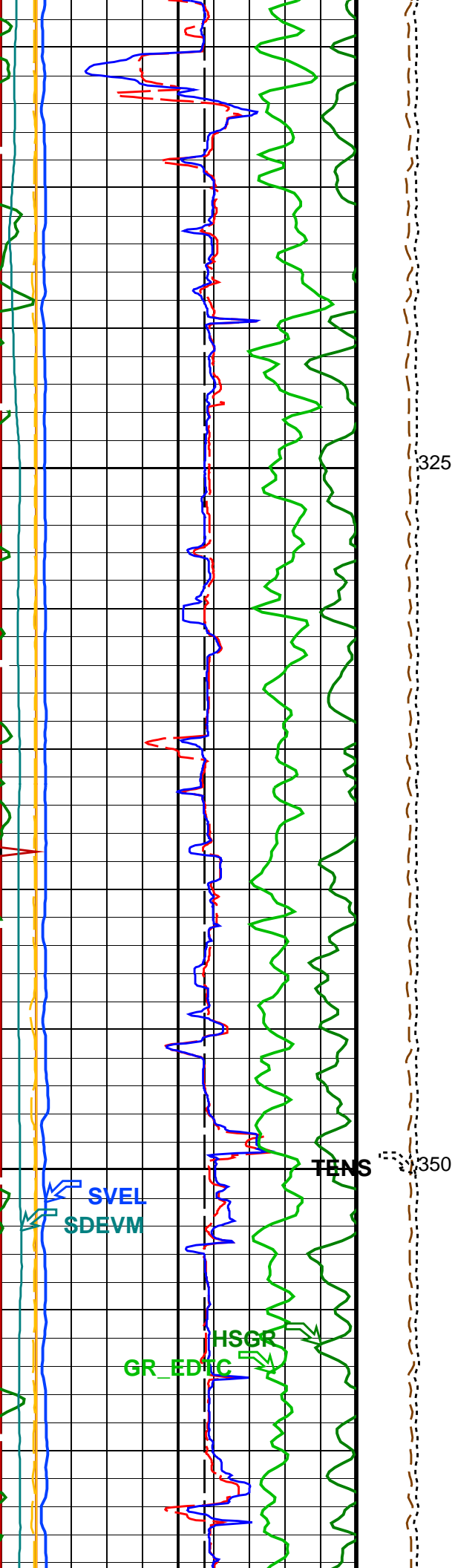


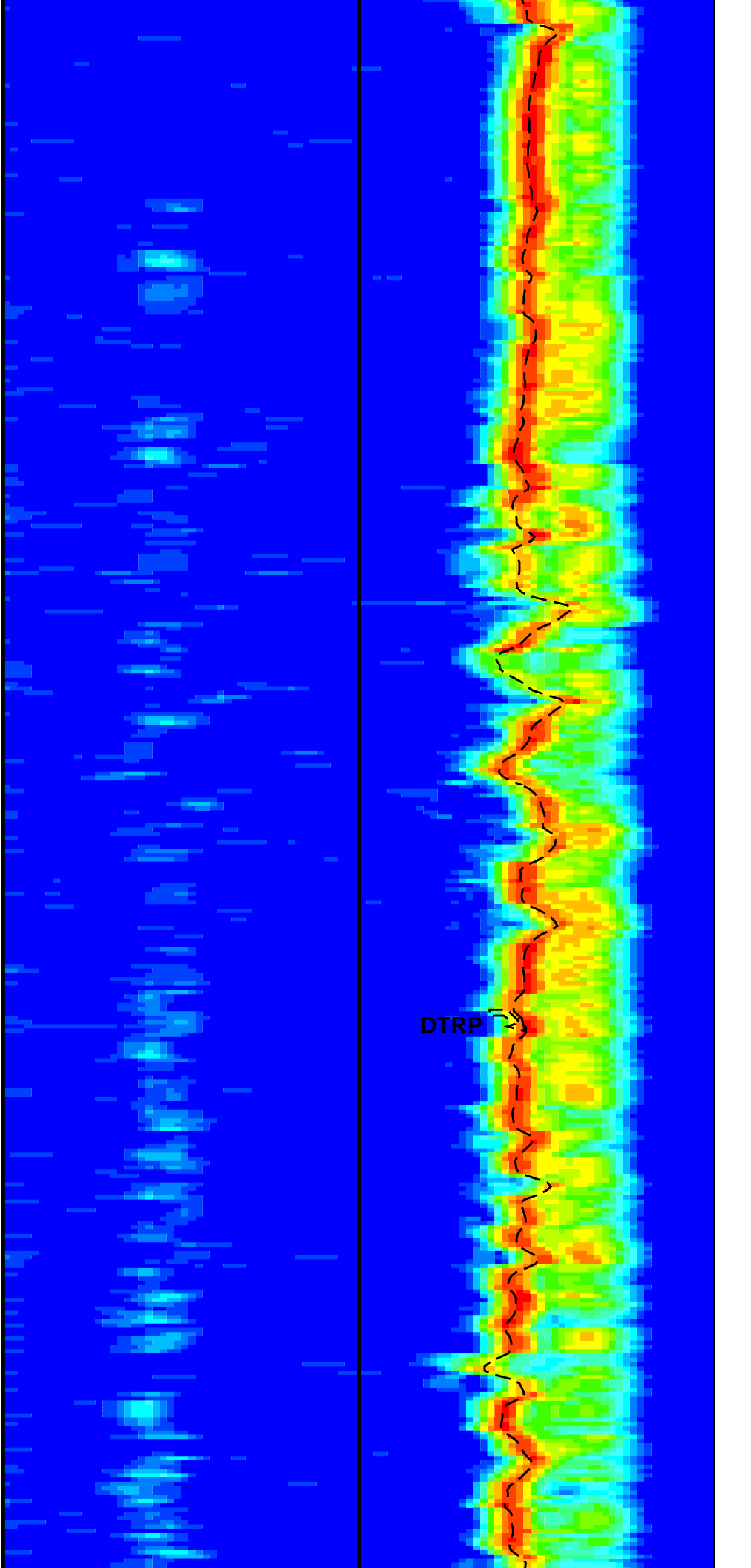
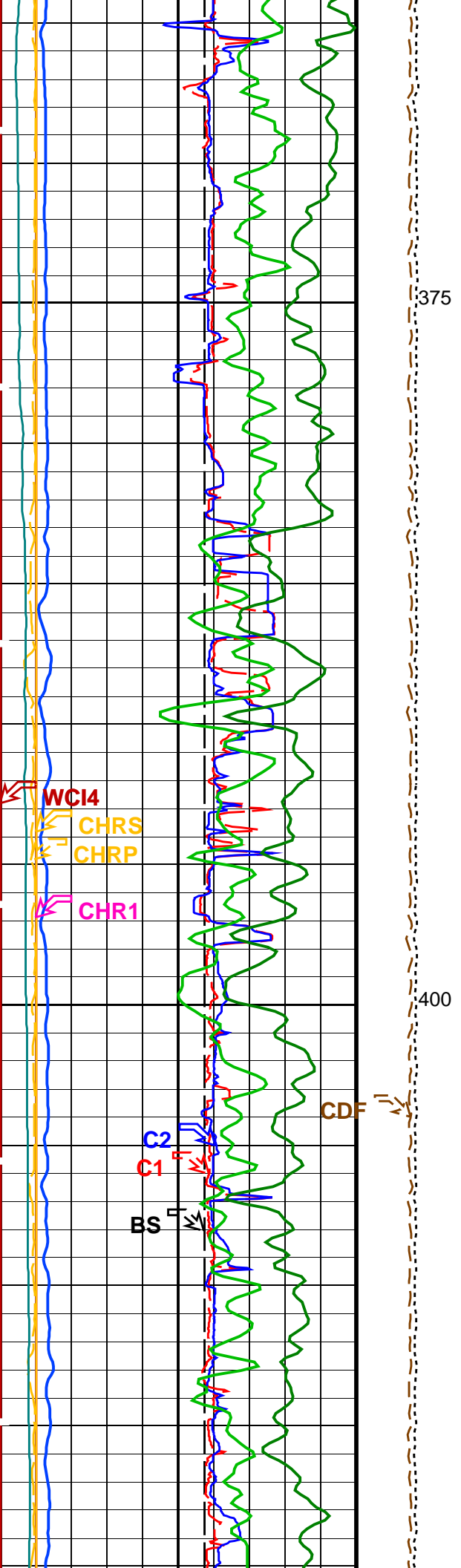


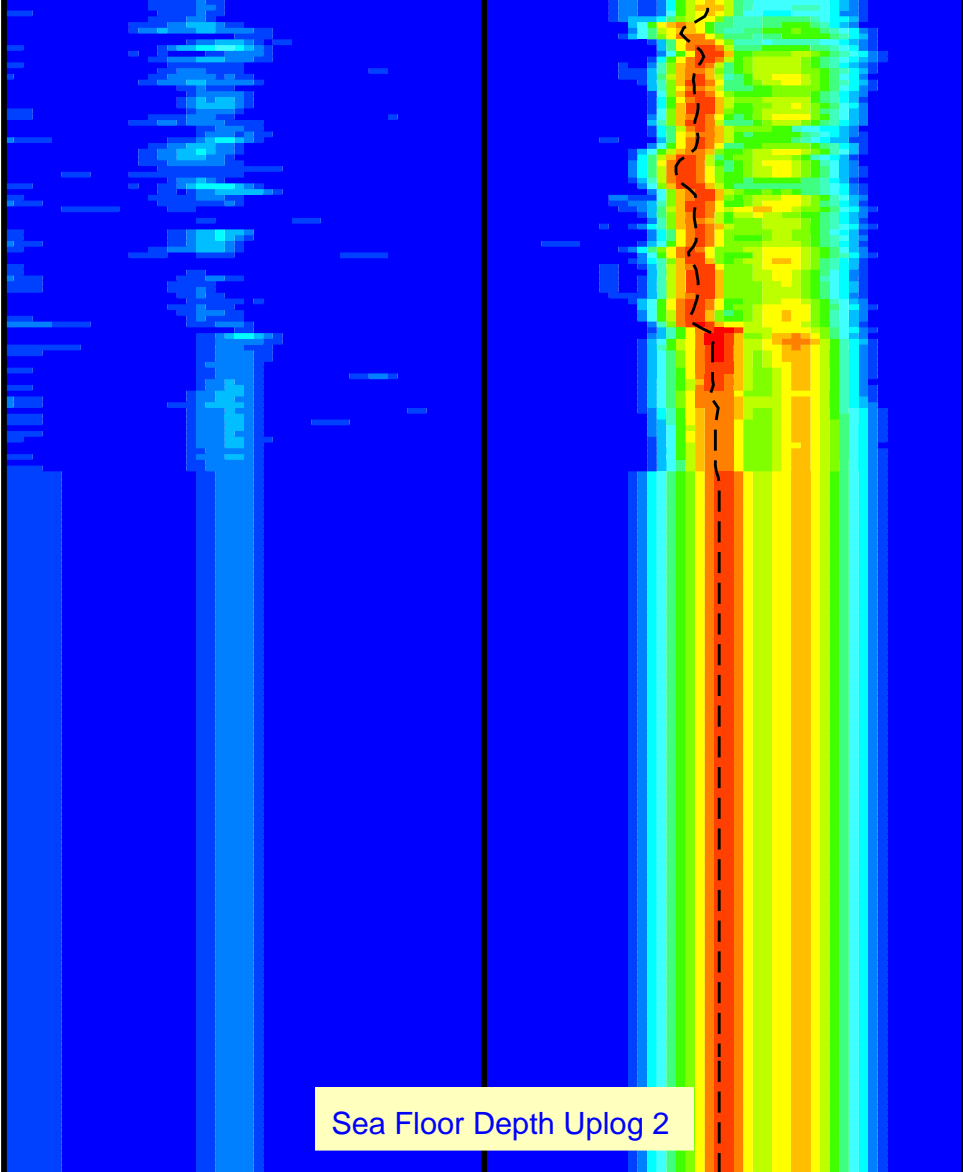
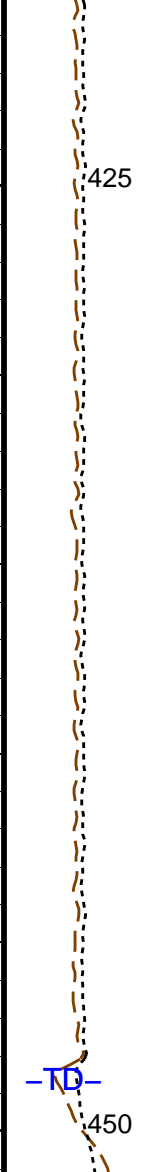
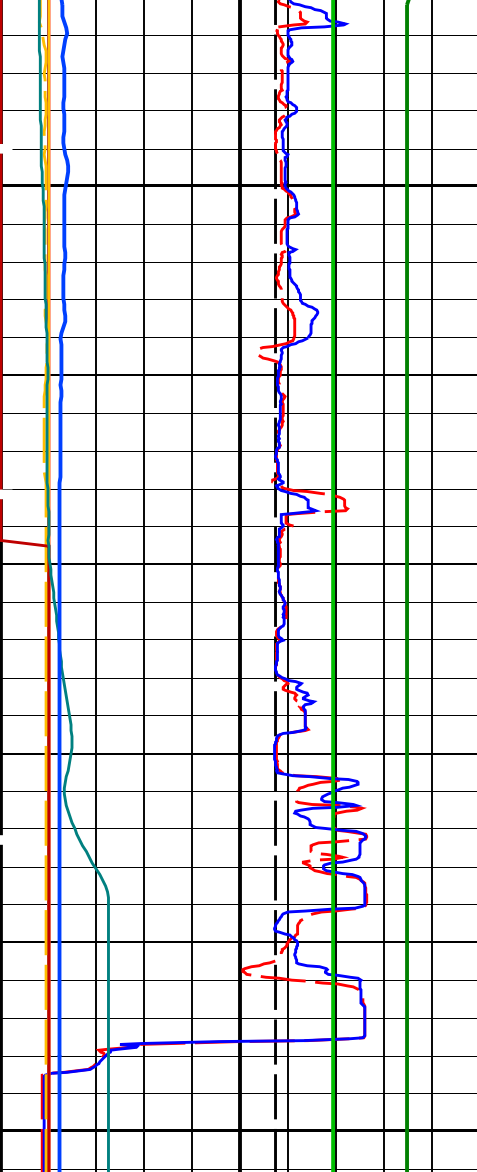












Bit Size (BS)
(IN) 0 20

Caliper 1 (C1)
(IN) 0 20

Caliper 2 (C2)
(IN) 0 20

Sonde Deviation (SDEVM)
(DEG) 0 10

Gamma Ray (GR_EDTC)
(GAPI) 0 100

Sonic Velocity (SVEL)
(M/S) 1000 6000

Peak Coherence / RA - Lower Dipole
(CHR1) (----) 0 10

Peak Coherence / RA - P & S Comp
(CHRP) 0 10

Tension (TENS)
(LBF) 10000 0

Calibrated
Downhole
Force
(CDF)
(LBF) 3000 0

Delta-T Comp / RA - P & S (DTRP)
(US/F) 40 240

Delta-T Shear / RA - P & S (DTRS)
(US/F) 40 240

Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
(US/F) 40 240

Sea Floor Depth Uplog 2

425

450

Peak Coherence / RA – P & S Shear (CHRS)	(-----)	10
-1	(-----)	9
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)	(-----)	10
0	(-----)	10
HNGS Spectroscopy Gamma Ray (HSGR)	(GAPI)	100
0	(GAPI)	100

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	-0.884445 DEG
DSST-B: Dipole Shear Imager – B		
BHS	Borehole Status	OPEN
CASF	Label Casing Function – Monopole P&S	50
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	120 US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	210 US/F
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source – Dipole Shear	USE
DSHL	Label Slowness Lower Limit – Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1200 US/F
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTC5	Compressional Delta-T Source for DTCO Channel	PS_COMP
DTF	Delta-T Fluid	195 US/F
DWC4	Digitizer Word Count 4	512
DWCX	Digitizer Word Count X	512
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR
GCSE	Generalized Caliper Selection	BS
LFC	Label Formation Character – Monopole P&S	DYNAMIC
LTXG	Lower Dipole Transmitter Geometry	156 IN
MCS	Mean Casing Slowness	57 US/F
MTXG	Monopole Transmitter Geometry	186 IN
NWI1	Number Waveform Items 1	0
NWI4	Number Waveform Items 4	8
NWIX	Number Waveform Items X	32
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN
RX5G	Receiver 5 Geometry	318 IN
RX6G	Receiver 6 Geometry	324 IN
RX7G	Receiver 7 Geometry	330 IN
RX8G	Receiver 8 Geometry	336 IN
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	BCR
SAS1	STC Sonic Array Status – Lower Dipole	255
SAS4	STC Sonic Array Status – Monopole P&S	255
SBO4	STC Search Band Offset – Monopole P&S	500 US
SBR4	STC Baseline Removal – Monopole P&S	ON
SBW4	STC Search Bandwidth – Monopole P&S	2000 US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE
SFM4	STC Filter – Monopole P&S	B3-20K
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235 US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240 US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40 US/F
SST4	STC Slowness Step – Monopole P&S	2 US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4
STLL	Label Slowness Lower Limit – Monopole Stoneley	75 US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	1200 US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240 US/F
SWD4	STC Slowness Width – Monopole P&S	10 US/F
TBF4	STC Time for Baseline Fill – Monopole P&S	300 US

LL4	STC Time Lower Limit - Monopole P&S	150	US
TST4	STC Time Step - Monopole P&S	50	US
TUL4	STC Time Upper Limit - Monopole P&S	3660	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI1	STC Integration Time Window - Lower Dipole	1600	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
WFM4	Waveform Mode 4	W1	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00293402	
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	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.08523	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	-0.521326	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.20	G/C3
DO	Depth Offset for Playback	-2509.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 07-Jan-2015 02:23

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_024LUP	FN:42	PRODUCER	06-Jan-2015 18:12	2960.4 M	2497.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_032PUP	FN:52	PRODUCER	07-Jan-2015 02:23
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Company: Integrated Ocean Discovery Program Well: Expedition 353, Site U1445A BB-5

Input DLIS Files

DEFAULT	FMS_DSI_NGS_022LUP	FN:38	PRODUCER	06-Jan-2015 17:07	2960.4 M	2636.7 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_030PUP	FN:50	PRODUCER	07-Jan-2015 02:13	450.3 M	126.6 M
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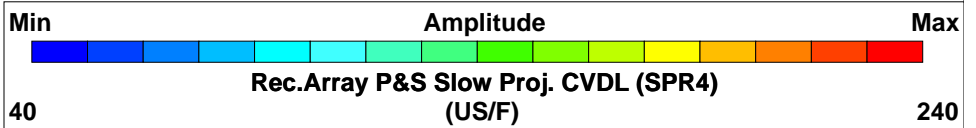
OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----)	9
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----)	10
Peak Coherence / RA - Lower Dipole (CHR1)		
0	(----)	10
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Gamma Ray (GR_EDTC)		
0	(GAPI)	100
Sonde Deviation (SDEVM)		
0	(DEG)	10
Caliper 2 (C2)		
0	(IN)	20



Caliper 1 (C1)		
0	(IN)	20

Calibrated Downhole Force (CDF) (LBF)

3000 0

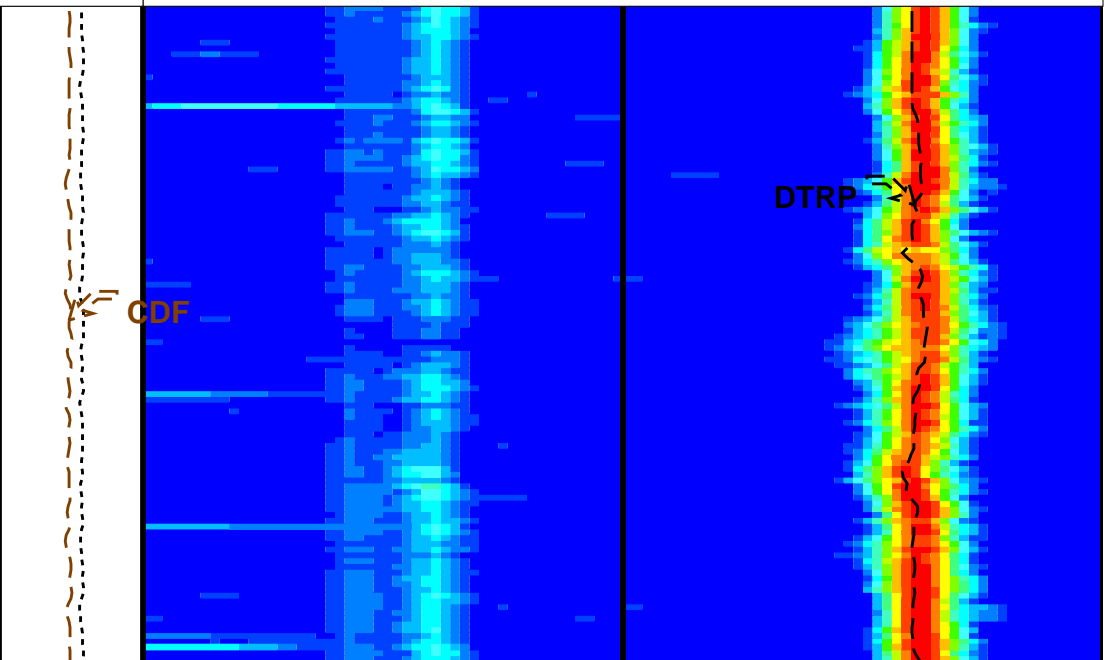
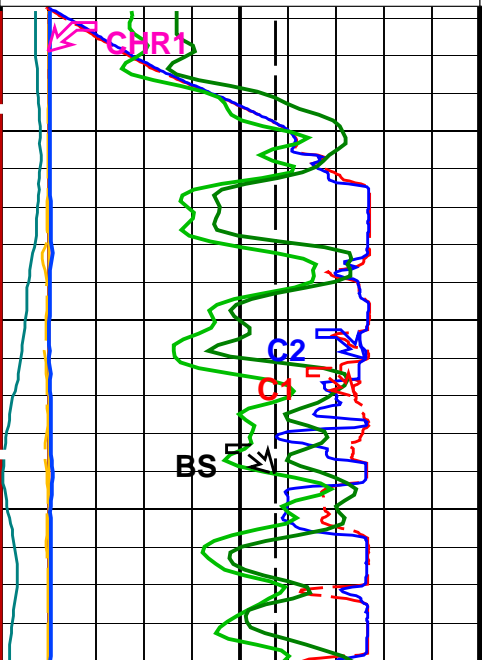
Delta-T Shear / RA - P & S (DTRS)		
40	(US/F)	240

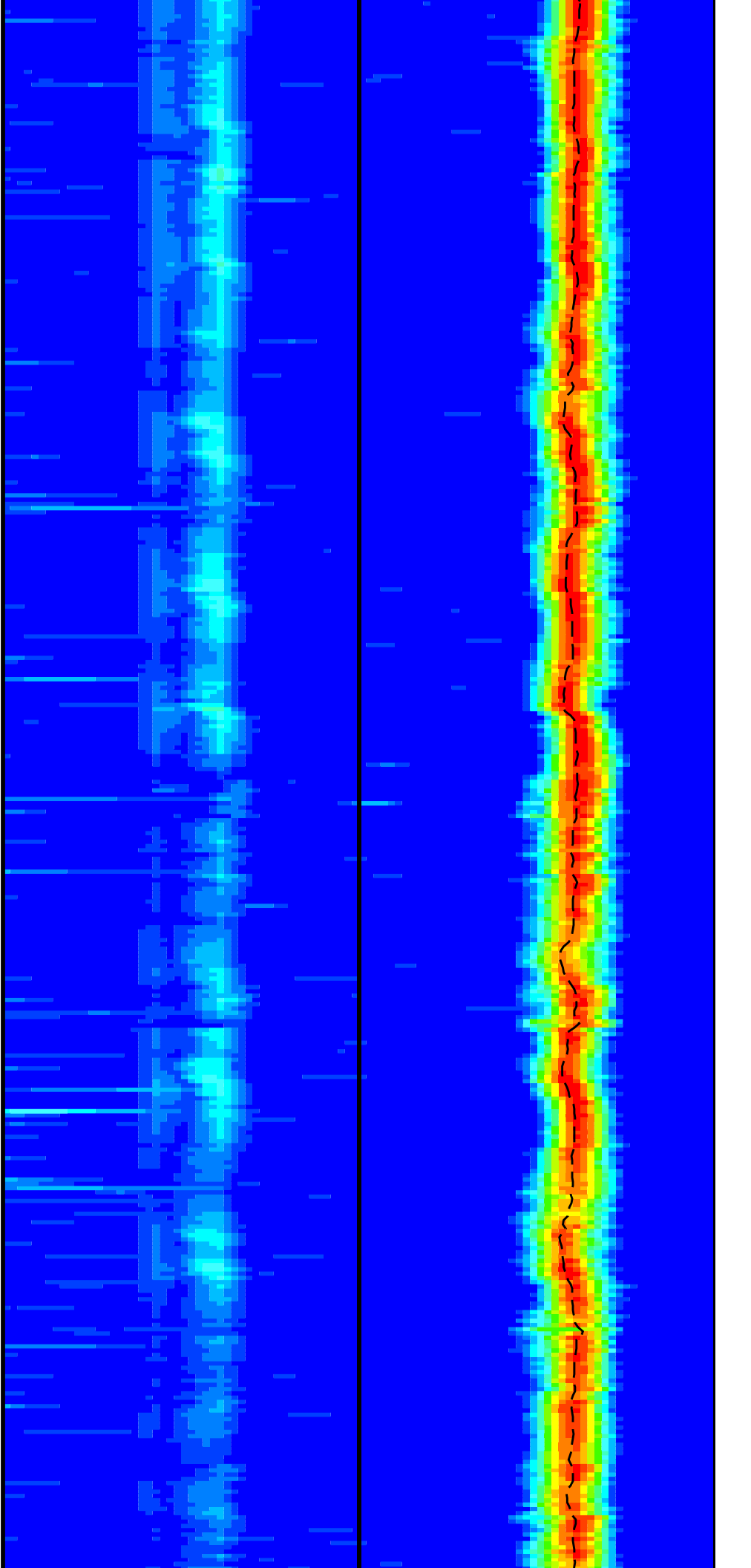
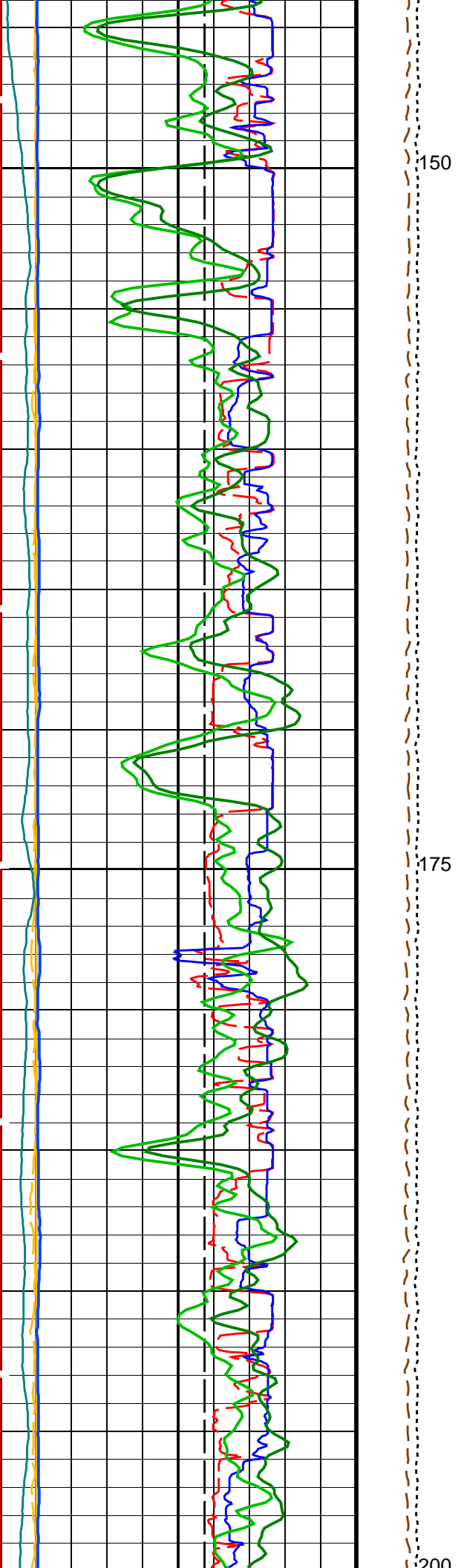
Bit Size (BS)		
0	(IN)	20

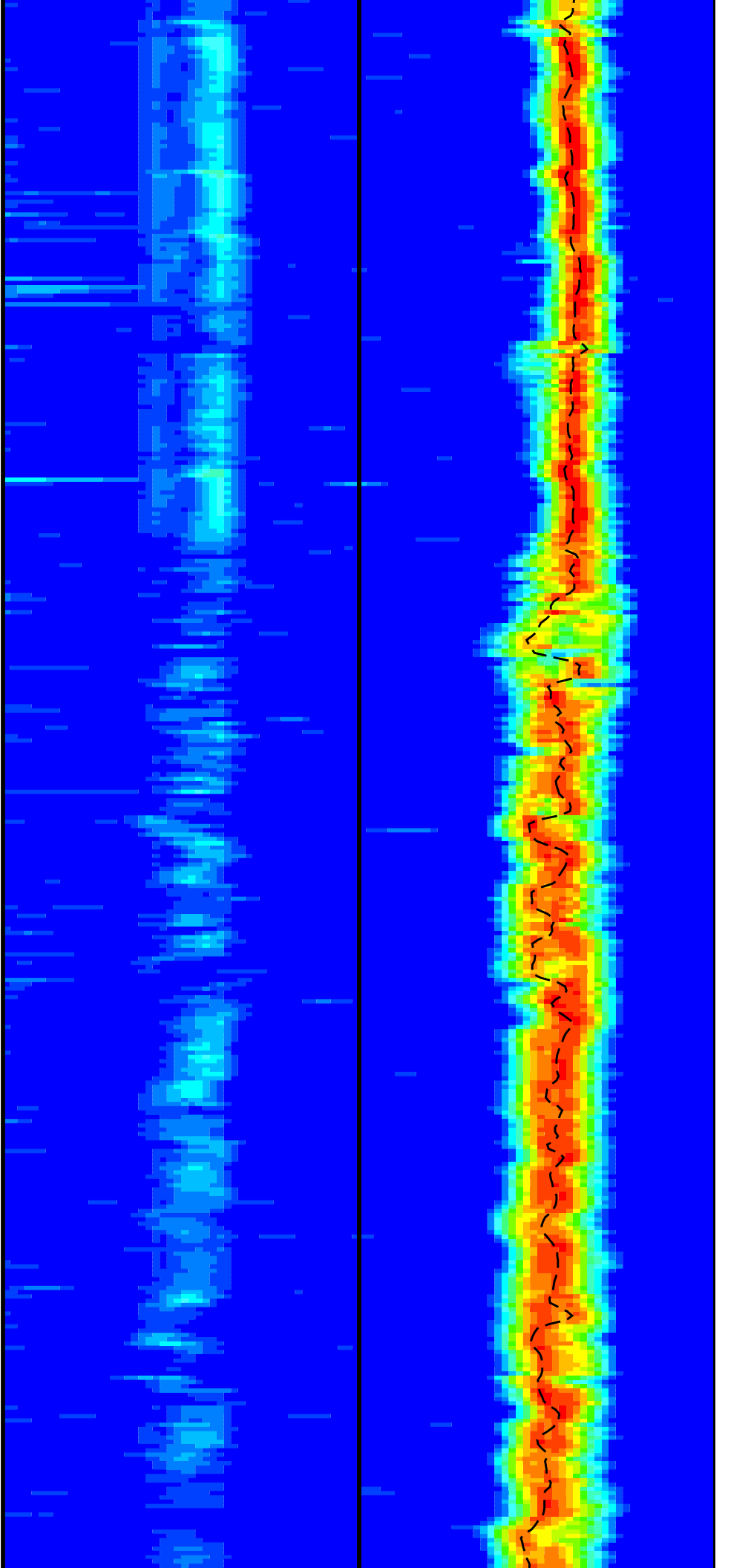
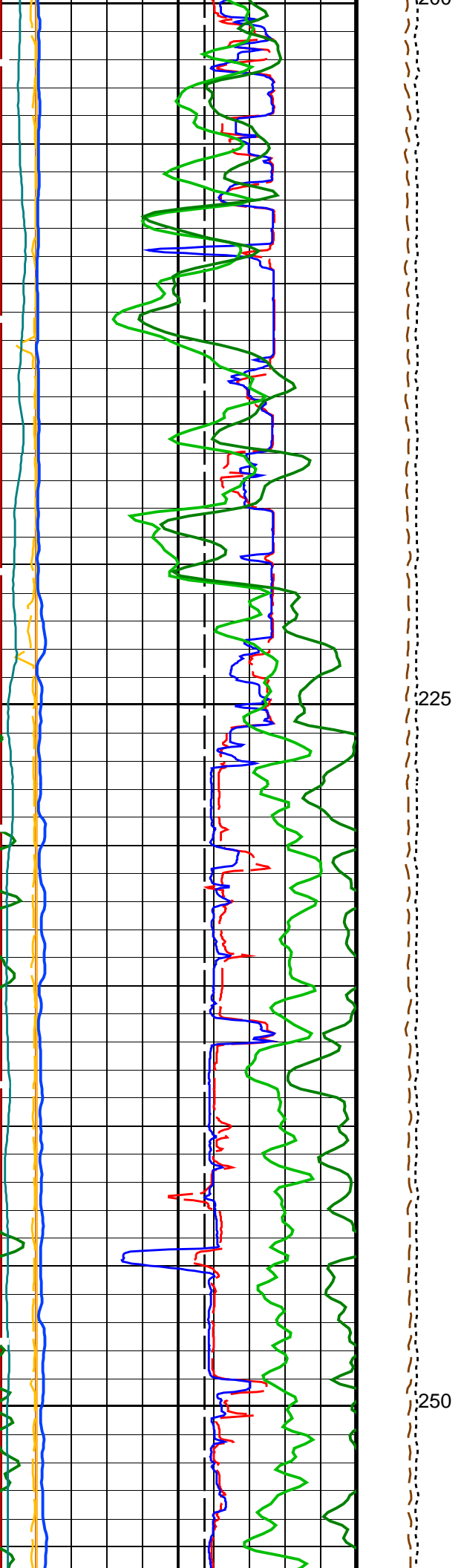
Tension (TENS) (LBF)

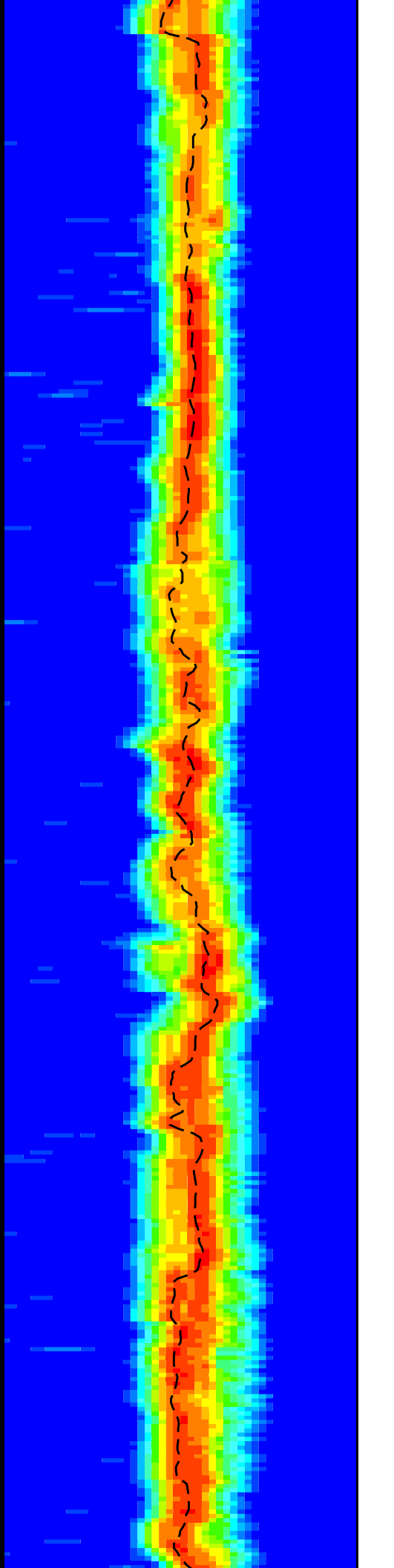
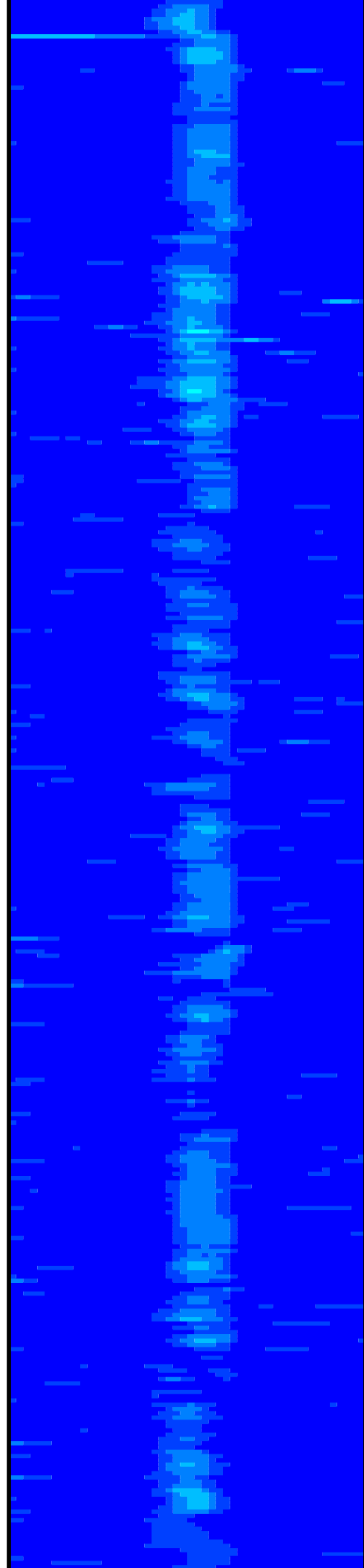
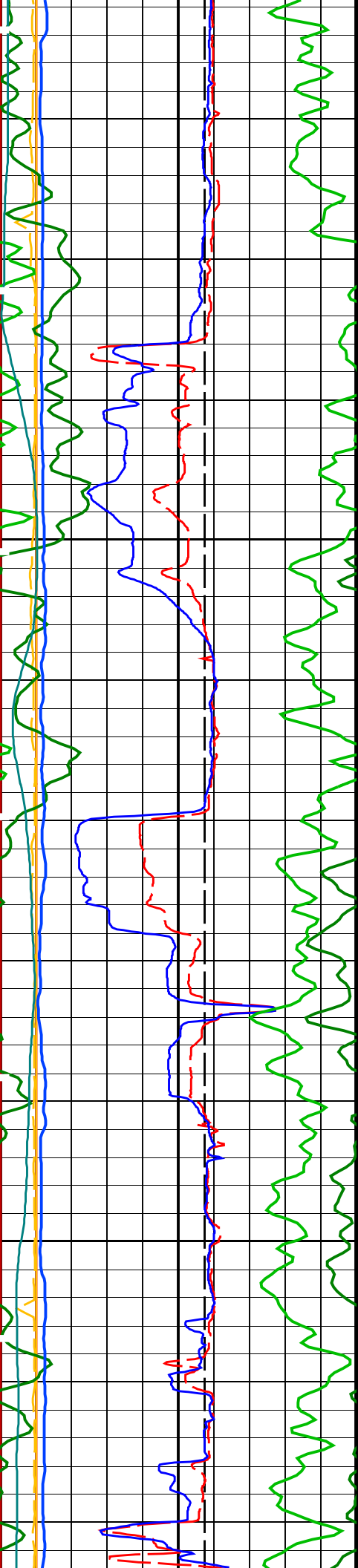
10000 0

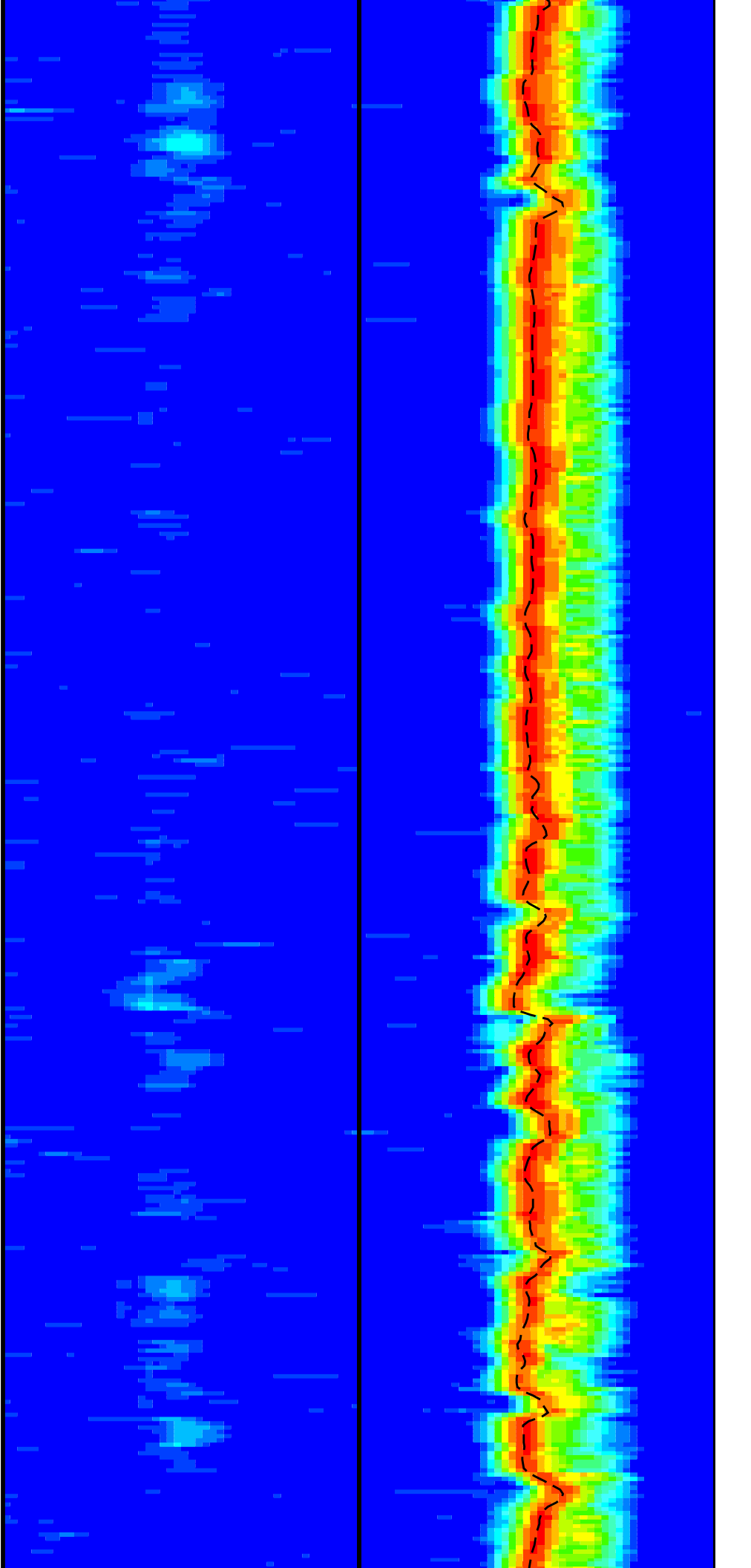
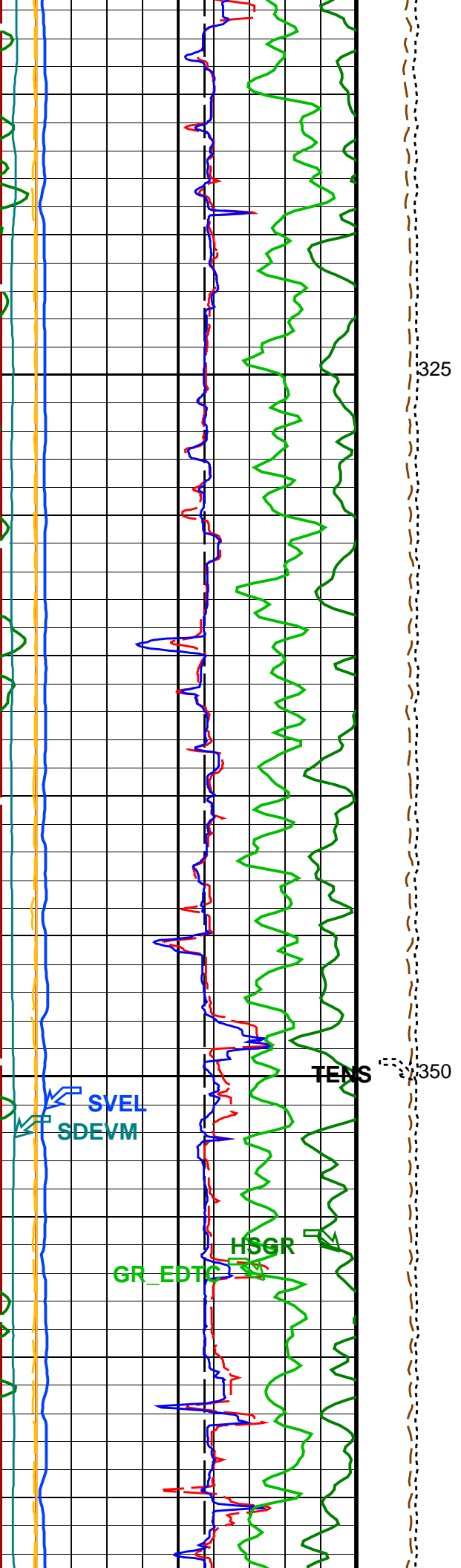
Delta-T Comp / RA - P & S (DTRP)		
40	(US/F)	240

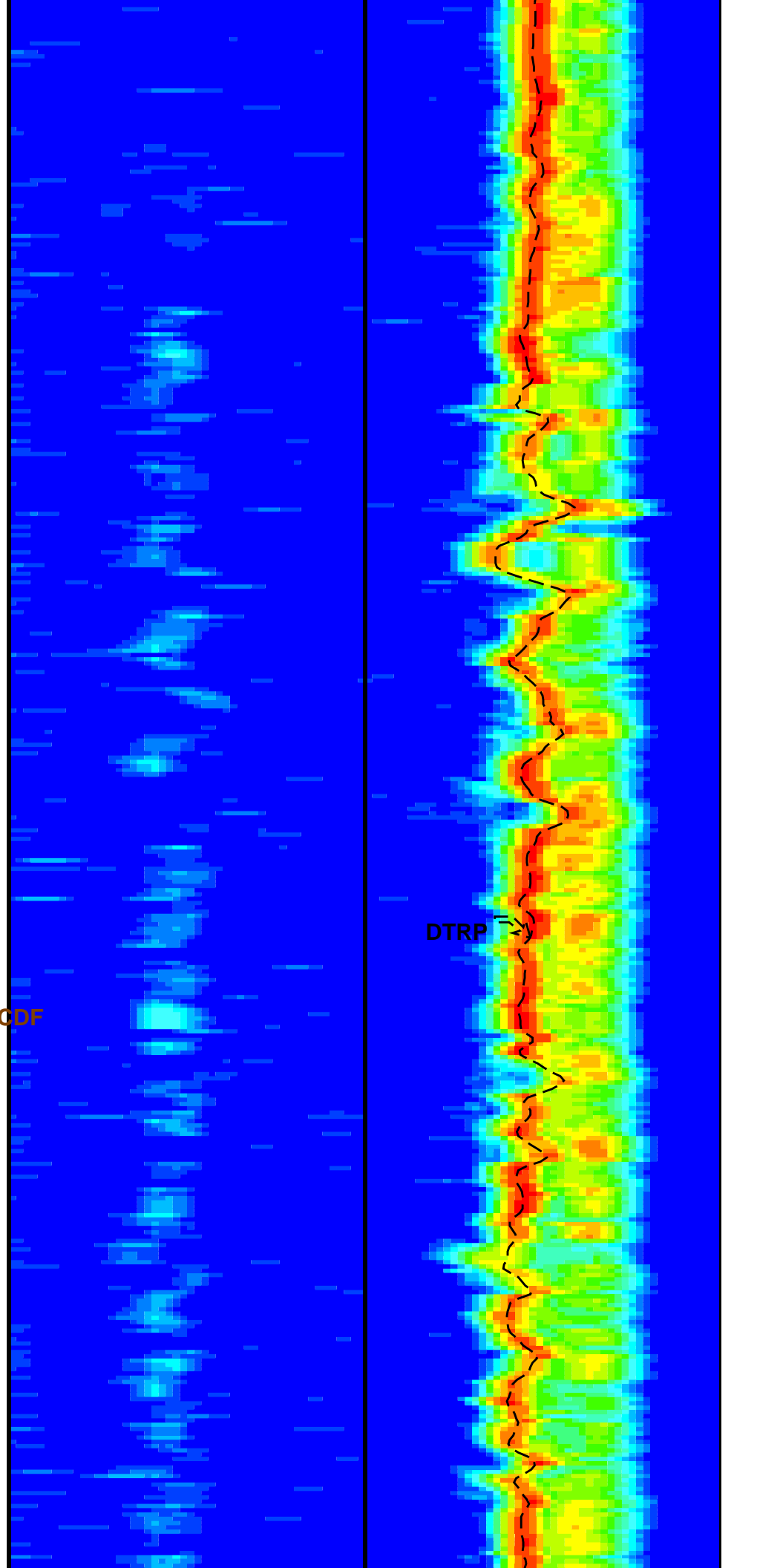
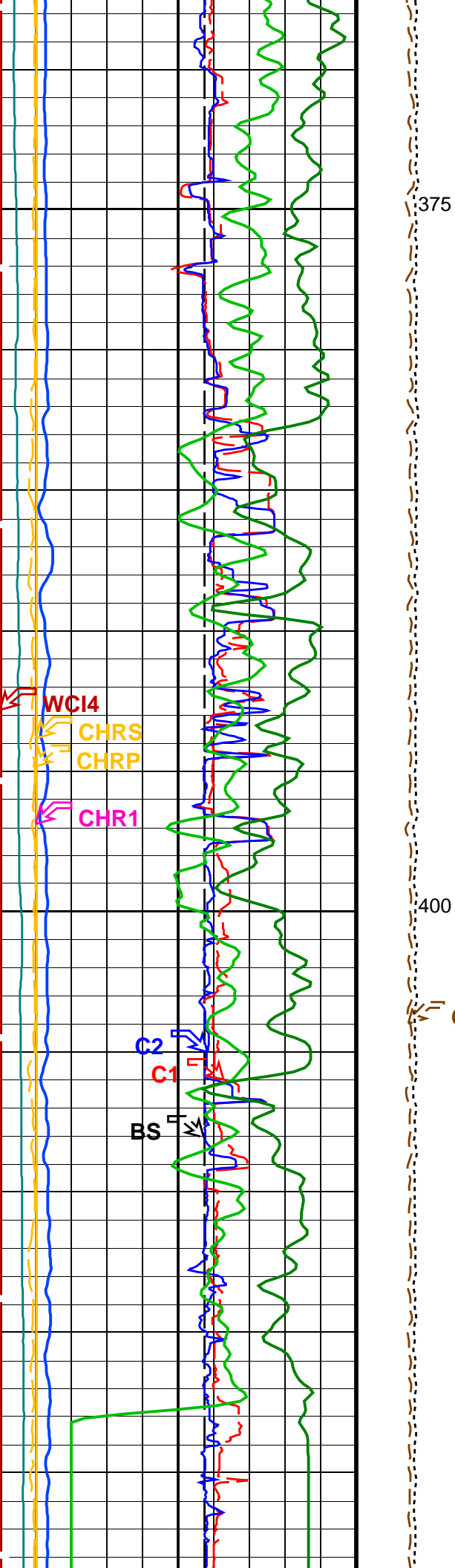


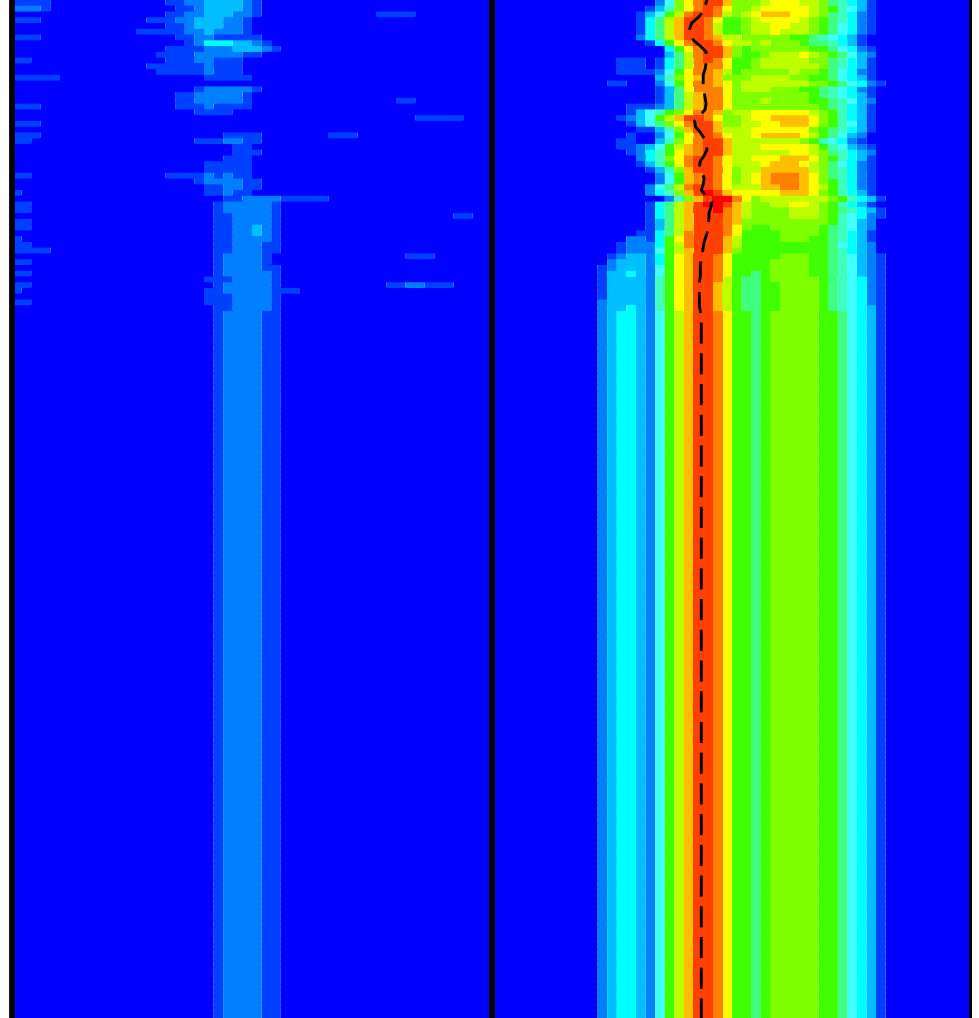
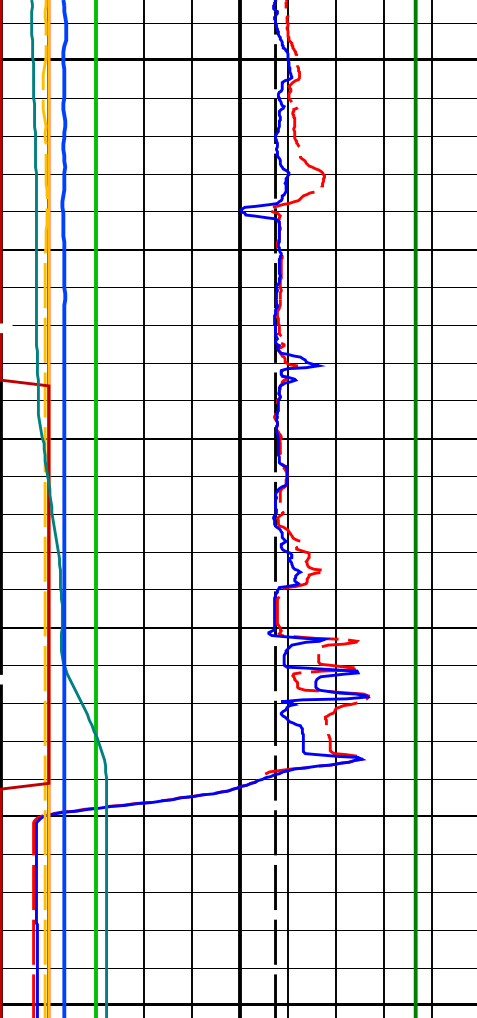












Bit Size (BS)
(IN) 0 20

Tension (TENS)
(LBF) 10000 0

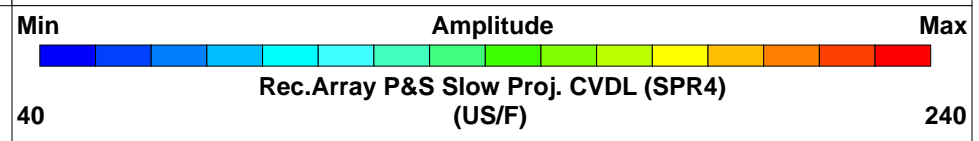
Delta-T Comp / RA - P & S (DTRP)
(US/F) 40 240

Caliper 1 (C1)
(IN) 0 20

Calibrated Downhole Force (CDF)
(LBF) 3000 0

Delta-T Shear / RA - P & S (DTRS)
(US/F) 40 240

Caliper 2 (C2)
(IN) 0 20



Sonde Deviation (SDEVM)
(DEG) 0 10

Gamma Ray (GR_EDTC)
(GAPI) 0 100

Sonic Velocity (SVEL)
(M/S) 1000 6000

Peak Coherence / RA - Lower Dipole (CHR1)
(----) 0 10

Peak Coherence / RA - P & S Comp (CHRP)
(----) 0 10

Peak Coherence / RA - P & S Shear (CHRS)
(----) -1 9

Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(----	10
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

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	-0.884445 DEG
DSST-B: Dipole Shear Imager – B		
BHS	Borehole Status	OPEN
CASF	Label Casing Function – Monopole P&S	50
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	120 US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	210 US/F
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source – Dipole Shear	USE
DSHL	Label Slowness Lower Limit – Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1200 US/F
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DTF	Delta-T Fluid	195 US/F
DWC4	Digitizer Word Count 4	512
DWCX	Digitizer Word Count X	512
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR
GCSE	Generalized Caliper Selection	BS
LFC	Label Formation Character – Monopole P&S	DYNAMIC
LTXG	Lower Dipole Transmitter Geometry	156 IN
MCS	Mean Casing Slowness	57 US/F
MTXG	Monopole Transmitter Geometry	186 IN
NWI1	Number Waveform Items 1	0
NWI4	Number Waveform Items 4	8
NWIX	Number Waveform Items X	32
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN
RX5G	Receiver 5 Geometry	318 IN
RX6G	Receiver 6 Geometry	324 IN
RX7G	Receiver 7 Geometry	330 IN
RX8G	Receiver 8 Geometry	336 IN
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	BCR
SAS1	STC Sonic Array Status – Lower Dipole	255
SAS4	STC Sonic Array Status – Monopole P&S	255
SBO4	STC Search Band Offset – Monopole P&S	500 US
SBR4	STC Baseline Removal – Monopole P&S	ON
SBW4	STC Search Bandwidth – Monopole P&S	2000 US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE
SFM4	STC Filter – Monopole P&S	B3-20K
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235 US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240 US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40 US/F
SST4	STC Slowness Step – Monopole P&S	2 US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4
STLL	Label Slowness Lower Limit – Monopole Stoneley	75 US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	1200 US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240 US/F
SWD4	STC Slowness Width – Monopole P&S	10 US/F
TBF4	STC Time for Baseline Fill – Monopole P&S	300 US
TLL4	STC Time Lower Limit – Monopole P&S	150 US
TST4	STC Time Step – Monopole P&S	50 US
TUL4	STC Time Upper Limit – Monopole P&S	3660 US
TWD4	STC Time Width – Monopole P&S	1000 US
TWI1	STC Integration Time Window – Lower Dipole	1600 US
TWI4	STC Integration Time Window – Monopole P&S	500 US
TWX	STC Integration Time Window – Lower Dipole	1600 US

IWSX	Transmitter waveform Select X	0	
WFM4	Waveform Mode 4	W1	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.000548907	
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	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.97264	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.967787	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.20	G/C3
DO	Depth Offset for Playback	-2510.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 07-Jan-2015 02:13

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:38	PRODUCER	06-Jan-2015 17:07	2960.4 M	2636.7 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_030PUP	FN:50	PRODUCER	07-Jan-2015 02:13
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Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner - B (Slim) Wellsite Calibration - Caliper Calibration							
Before: 13-Dec-2014 18:35							
Caliper 1 Zero Measurement	11.90	N/A	12.62	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	11.90	N/A	12.57	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.67	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.65	N/A	N/A	N/A	IN
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 6-Jan-2015 14:35							
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: 6-Jan-2015 14:35							

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: 26–Nov–2014 7:50 Before: 10–Dec–2014 15:55 After: 6–Jan–2015 12:14

Na 511 Peak Loc	40.00	38.60	38.65	38.66	0.01219	1.000	
Na 511 Peak Res	15.50	17.82	17.23	17.22	-0.006243	2.000	%
High Voltage	1150	1236	1226	1212	-14.63	N/A	V
Na 1785 Peak Loc	142.6	140.0	140.2	140.7	0.5771	7.000	
Na 1785 Peak Res	8.500	9.579	9.390	9.074	-0.3153	2.000	%
Temperature	15.50	39.03	35.73	27.87	-7.862	N/A	DEGC
Na Count Rate	45.00	23.07	22.60	22.08	-0.5244	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 26–Nov–2014 7:50 Before: 10–Dec–2014 15:55 After: 6–Jan–2015 12:14

Na 511 Peak Loc	40.00	39.82	39.59	39.70	0.1076	1.000	
Na 511 Peak Res	15.50	15.45	17.13	16.09	-1.036	2.000	%
High Voltage	1150	1116	1107	1096	-11.06	N/A	V
Na 1785 Peak Loc	142.6	143.6	142.5	143.7	1.181	7.000	
Na 1785 Peak Res	8.500	9.367	8.711	8.871	0.1603	2.000	%
Temperature	15.50	38.84	35.37	28.64	-6.722	N/A	DEGC
Na Count Rate	45.00	23.01	22.57	21.87	-0.7028	8.000	CPS

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

Master: 26–Nov–2014 7:50 Before: 10–Dec–2014 15:55 After: 6–Jan–2015 12:14

Coincidence Count Rate Ratio	1.000	1.001	1.001	1.006	0.005219	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 26–Nov–2014 7:45

Na 511 Peak Set Point	40.00	40.00	---	---	---	---	
Th Peak Loc	209.6	211.5	---	---	---	---	
Th Peak Res	7.000	8.468	---	---	---	---	%
Background Count Rate	142.5	23.99	---	---	---	---	CPS
Gain Ratio	1.000	1.042	---	---	---	---	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 26–Nov–2014 7:45

Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	209.9	---	---	---	---	
Th Peak Res	7.000	7.524	---	---	---	---	%
Background Count Rate	142.5	23.17	---	---	---	---	CPS
Gain Ratio	1.000	1.003	---	---	---	---	

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 6–Jan–2015 6:00

EDTC Z–Axis Acceleration	9.810	N/A	9.742	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 10–Dec–2014 20:50

Gamma Ray (Jig – Bkg)	153.0	N/A	153.0	N/A	N/A	13.90	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	N/A	N/A	15.00	GAPI

Micro Electrical Scanner – B (Slim) / Equipment Identification

Primary Equipment:

MEST Sonde – B	MEDS – B	770
MEST Preamplifier Cartridge – AB	MEPC – AB	806
GPIT Cartridge – AC	GPIC – AC	719
MEST Acquisition Cartridge – A	MEAC – A	804

Auxiliary Equipment:

MEST–B Preamplifier Cartridge Housing	MEPH – A	701
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	701

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC – B	439
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Auxiliary Equipment:

HNGC Housing	HNGH – A	380
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Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:
HNGS Sonde

HNGS – BA 177

Auxiliary Equipment:
HNGS Sonde Housing
Gamma Source Radioactive

HNSH – BA 174
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		38.60	Master		17.82	Master		1236
Before		38.65	Before		17.23	Before		1226
After		38.66	After		17.22	After		1212
	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		140.0	Master		9.579	Master		39.03
Before		140.2	Before		9.390	Before		35.73
After		140.7	After		9.074	After		27.87
	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		23.07						
Before		22.60						
After		22.08						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 26-Nov-2014 7:50			Before: 10-Dec-2014 15:55			After: 6-Jan-2015 12:14		

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		39.82	Master		15.45	Master		1116
Before		39.59	Before		17.13	Before		1107
After		39.70	After		16.09	After		1096
	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		143.6	Master		9.367	Master		38.84
Before		142.5	Before		8.711	Before		35.37
After		143.7	After		8.871	After		28.64
	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		23.01						
Before		22.57						
After		21.87						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 26-Nov-2014 7:50			Before: 10-Dec-2014 15:55			After: 6-Jan-2015 12:14		

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		1.001

Before			1.001
After			1.006
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 26-Nov-2014 7:50			
Before: 10-Dec-2014 15:55			
After: 6-Jan-2015 12:14			

Hostile Natural Gamma Ray Sonde Master Calibration									
Detector 1 Calibration									
Phase	Na 511 Peak Set Point			Value	Phase	Th Peak Loc			Value
Master				40.00	Master				211.5
	38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)			201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	
Phase	Background Count Rate CPS			Value	Phase	Gain Ratio			Value
Master				23.99	Master				1.042
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)			0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)	
Master: 26-Nov-2014 7:45									

Hostile Natural Gamma Ray Sonde Master Calibration									
Detector 2 Calibration									
Phase	Na 511 Peak Set Point			Value	Phase	Th Peak Loc			Value
Master				41.00	Master				209.9
	38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)			201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	
Phase	Background Count Rate CPS			Value	Phase	Gain Ratio			Value
Master				23.17	Master				1.003
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)			0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)	
Master: 26-Nov-2014 7:45									

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		9.742
	9.610 (Minimum)	9.810 (Nominal)
		10.01 (Maximum)
Before: 6-Jan-2015 6:00		

Enhanced DTS Cartridge Wellsite Calibration									
Detector Calibration									
Phase	Gamma Ray Background GAPI			Value	Phase	Gamma Ray (Jig - Bkg) GAPI			Value
Before				6.107	Before				153.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)			139.0 (Minimum)	153.0 (Nominal)	166.9 (Maximum)	
Phase	Gamma Ray (Calibrated) GAPI			Value	Phase	Gamma Ray (Calibrated) GAPI			Value
Before				164.0	Before				164.0
	149.0 (Minimum)	164.0 (Nominal)	179.0 (Maximum)			149.0 (Minimum)	164.0 (Nominal)	179.0 (Maximum)	
Before: 10-Dec-2014 20:50									

Company: **Integrated Ocean Discovery Program**

Schlumberger

Well: **Expedition 353, Site U1445A BB-5**

Field: **Indian Monsoon**

Rig: **JOIDES Resolution**

Ocean: **Indian**

Formation Micro Scanner (FMS)

Dipole Shear Sonic (DSI)

Dual Axis Caliper / Gamma Ray