

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1

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

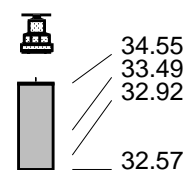
REMARKS: RUN NUMBER 1

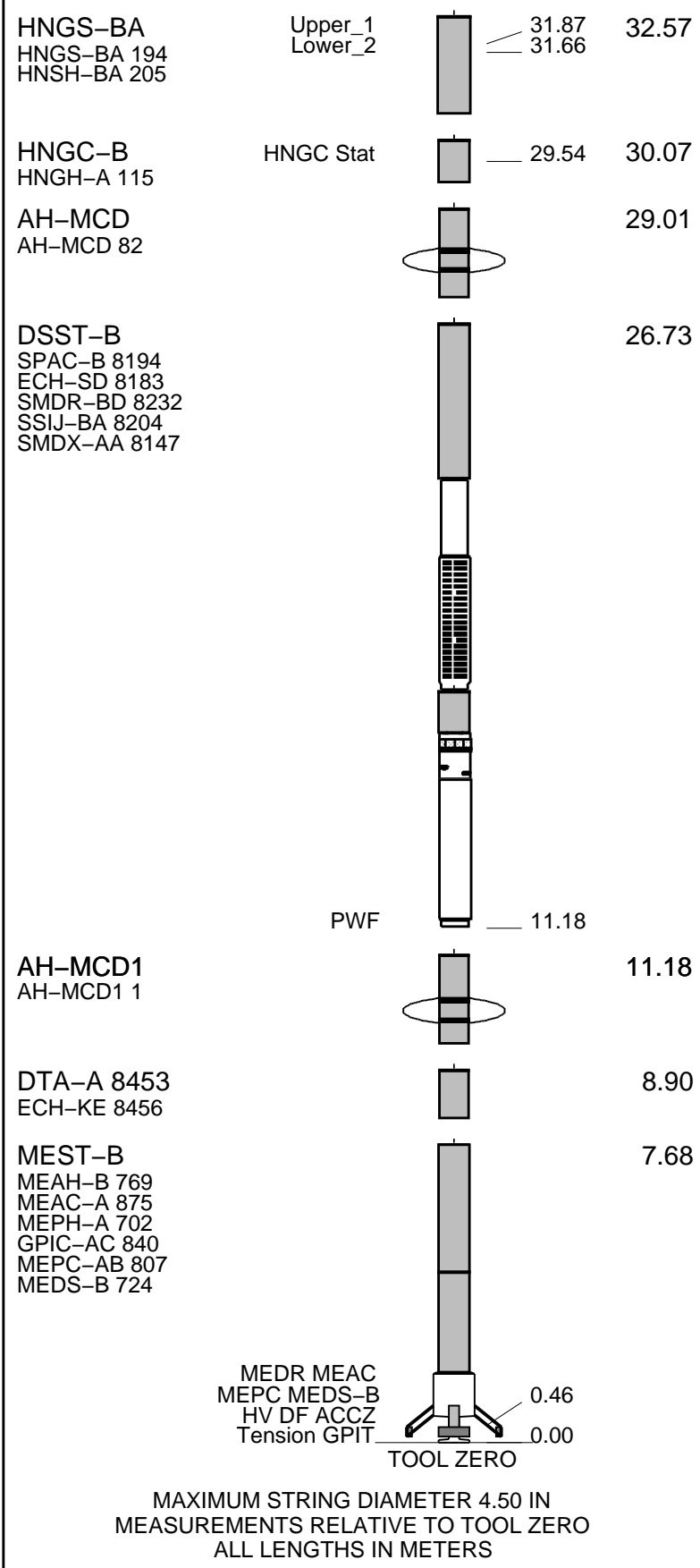
Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8 " BS
 Coring concluded approximately 24 hours prior to logging.
 Drill pipe set at a depth of 92.3mbsf with a logging bit installed to facilitate wireline logging.
 Downlog run with corrections computed using bit size; uplogs corrected for actual hole size using caliper.
 FMS Calipers closed for downlog; calipers open for uplog with EMEX set to Auto mode.
 DSI run with P&S=Std, Stoneley=Std, Upper Dipole = Std, and Lower Dipole = Low Freq. modes for all passes.
 Tool string run centered using modified MCD inline centralizers, as per toolsketch.
 Fluid type was sea water, as used to drill, so no barite corrections were required.
 Depth originally recorded from drill floor; played back with sea floor as reference zero.
 All logs presented in measured depth below sea floor (MDBSF).
 Logs played back to correct Slowness labelling, apply GPIT corrections, and apply computed FMS contrast map.

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

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT	
GSR-U 616008 WITM (EDTS)-A	

RUN 1	RUN 2
DOWNHOLE EQUIPMENT	
LEH-QT LEH-QT 1701 EDTC-B EDTH-B 8303 EDTC-B 8317 EDTG-A/B 8305	 MDSB_EDTC Mud Tempe CTEM Gamma Ray EFTB DIAG TelStatus EDTCB Ele
	34.55 35.44 33.49 32.92 34.55 32.57



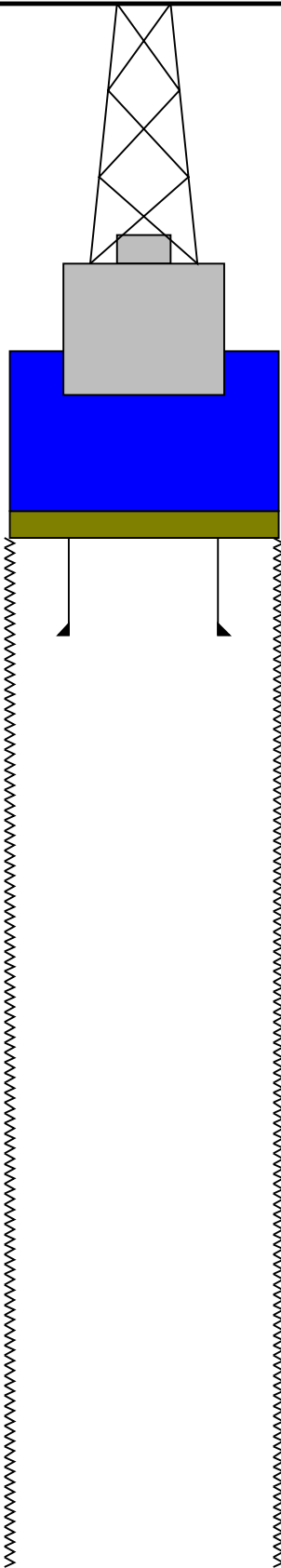
Production String	(in) (m)	Well Schematic	(m) (in)	Casing String
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Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-2127.3
-2127.3

-2117.3



0.0

92.3

5.500

980.4

9.875

Sea Floor

Bit Depth

Total Depth - Driller

Schlumberger

**Repeat Pass
1:200 Scale**

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 350, Site U1437D

Input DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:28	PRODUCER	22-Apr-2014 20:12	3074.7 M	2750.5 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_052PUP	FN:67	PRODUCER	25-Apr-2014 04:57	951.0 M	627.6 M
CLIENT	FMS_DSI_NGS_052PUC	FN:68	CUSTOMER	25-Apr-2014 04:57	951.0 M	627.6 M

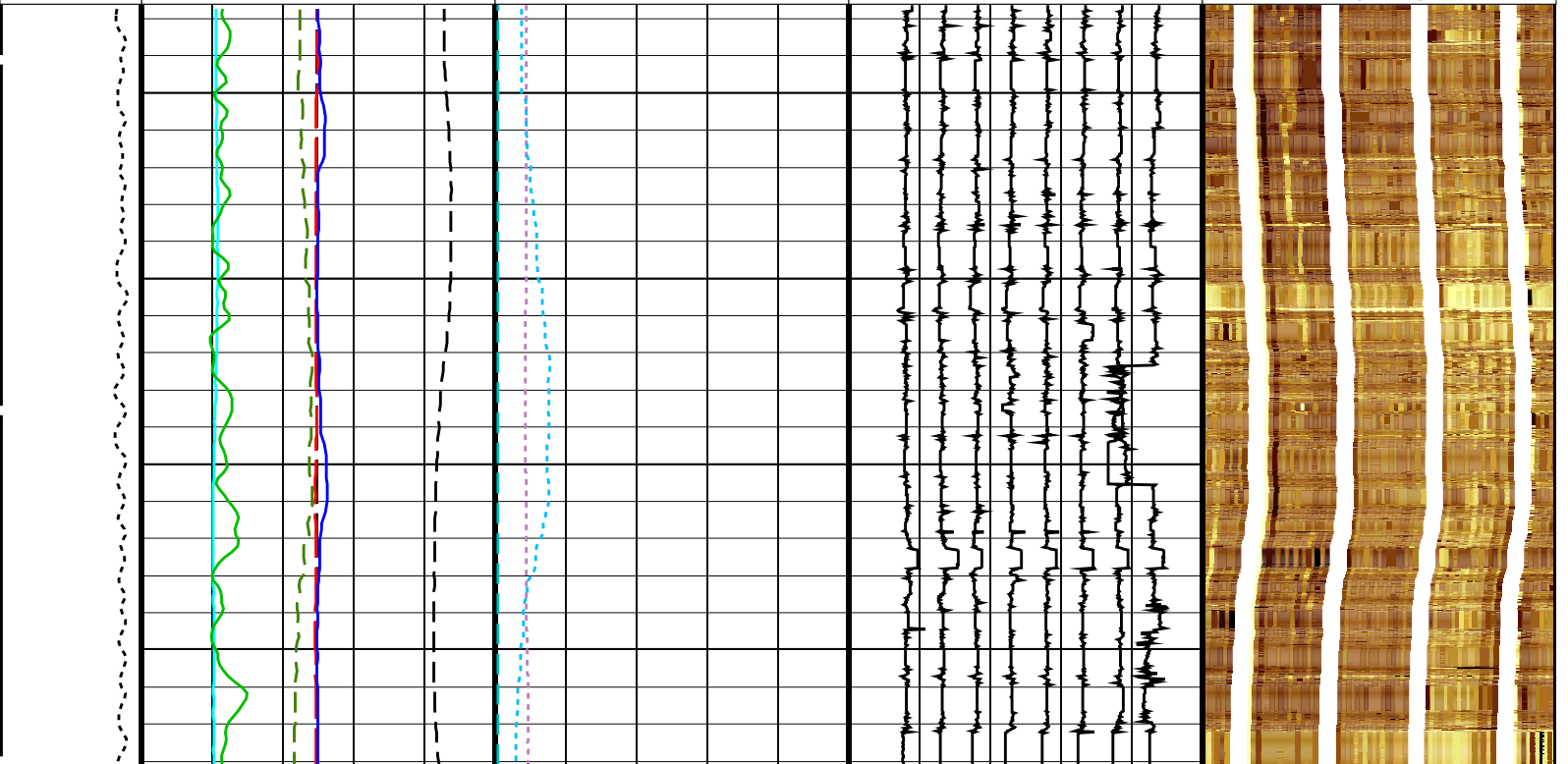
OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	8453
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S

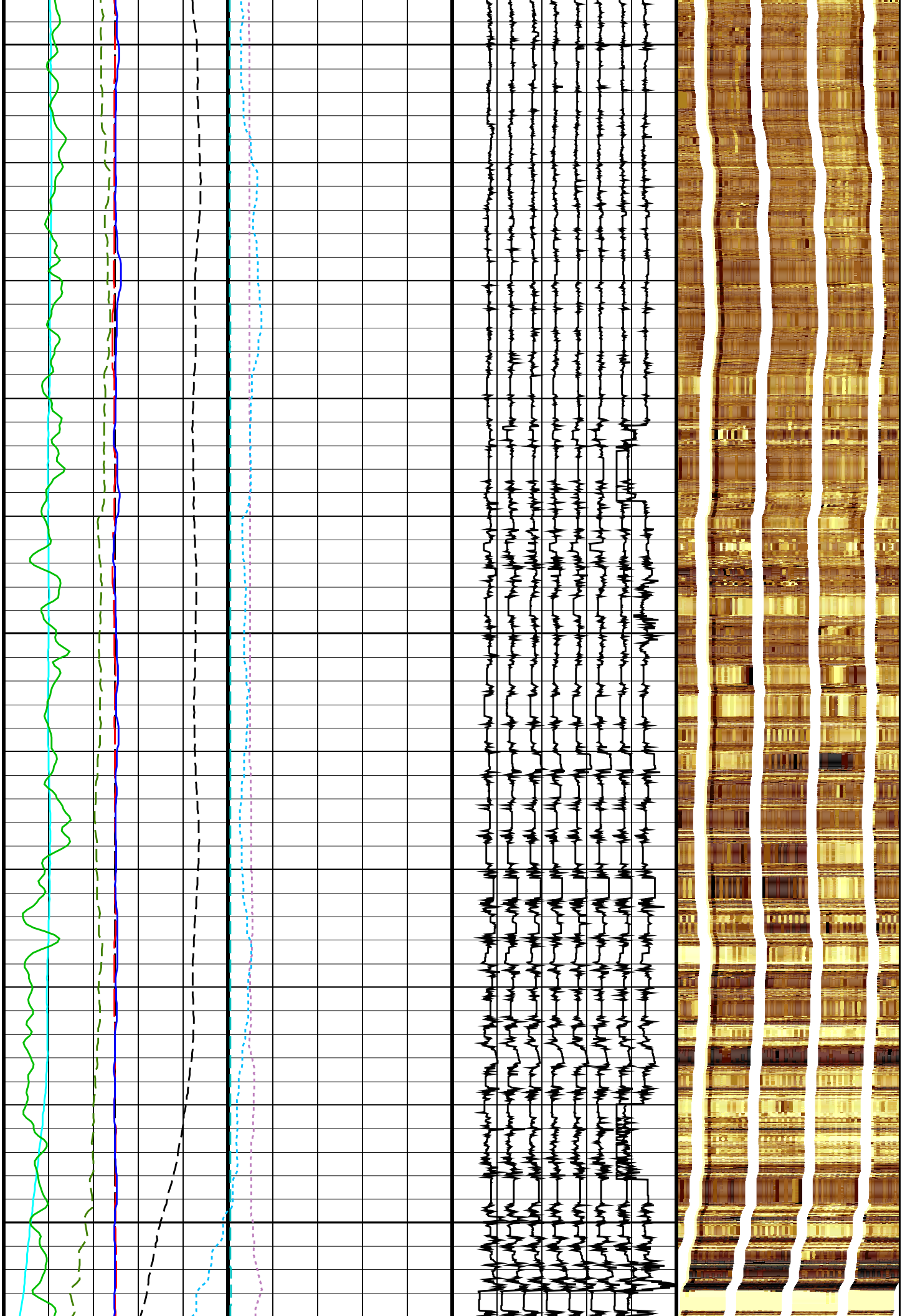
<p>Relative Bearing (RB_MEST) (DEG)</p> <p>-40 ----- 360</p>	<p>Data Button 8 - Varies with RBS (U-MEST_RB8)</p> <p>-80 (----) 20</p>	
<p>Pad One Azimuth (P1AZ_MEST) (DEG)</p> <p>-40 ----- 360</p>	<p>Data Button 7 - Varies with RBS (U-MEST_RB7)</p> <p>-70 (----) 30</p>	
<p>Hole Azimuth (HAZIM) (DEG)</p> <p>-40 ----- 360</p>	<p>Data Button 6 - Varies with RBS (U-MEST_RB6)</p> <p>-60 (----) 40</p>	
<p>Gamma Ray (GR_EDTC) (GAPI)</p> <p>0 ----- 150</p>	<p>Data Button 5 - Varies with RBS (U-MEST_RB5)</p> <p>-50 (----) 50</p>	
<p>Deviation (DEVIM) (DEG)</p> <p>0 ----- 10</p>	<p>Data Button 4 - Varies with RBS (U-MEST_RB4)</p> <p>-40 (----) 60</p>	<p>3.7975 4.1688 4.4164 4.6640 4.7877 5.0353 5.1591 5.2829 5.5304 5.7780 6.0255 6.2731 6.7682 7.3871 8.2536 9.7389</p> <p>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)</p>
<p>Caliper 2 (C2) (IN)</p> <p>0 ----- 20</p>	<p>Data Button 3 - Varies with RBS (U-MEST_RB3)</p> <p>-30 (----) 70</p>	<p>3.7975 4.1688 4.4164 4.6640 4.7877 5.0353 5.1591 5.2829 5.5304 5.7780 6.0255 6.2731 6.7682 7.3871 8.2536 9.7389</p> <p>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)</p>
<p>Caliper 1 (C1) (IN)</p> <p>0 ----- 20</p> <p>EMEX Intensity (EI) (AMPS)</p> <p>0 ----- 10</p>	<p>Data Button 2 - Varies with RBS (U-MEST_RB2)</p> <p>-20 (----) 80</p>	<p>3.7975 4.1688 4.4164 4.6640 4.7877 5.0353 5.1591 5.2829 5.5304 5.7780 6.0255 6.2731 6.7682 7.3871 8.2536 9.7389</p> <p>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS) (----)</p>
<p>Tension (TENS) (LBF)</p> <p>0 ----- 5000</p> <p>Bit Size (BS) (IN)</p> <p>0 ----- 20</p> <p>EMEX Voltage (EV) (V)</p> <p>0 ----- 50</p>	<p>Data Button 1 - Varies with RBS (U-MEST_RB1)</p> <p>-10 (----) 90</p>	<p>3.7975 4.1688 4.4164 4.6640 4.7877 5.0353 5.1591 5.2829 5.5304 5.7780 6.0255 6.2731 6.7682 7.3871 8.2536 9.7389</p> <p>MEST_PADA (U-MEST_RESISTIVITY_PADA_DS) (----)</p>



650

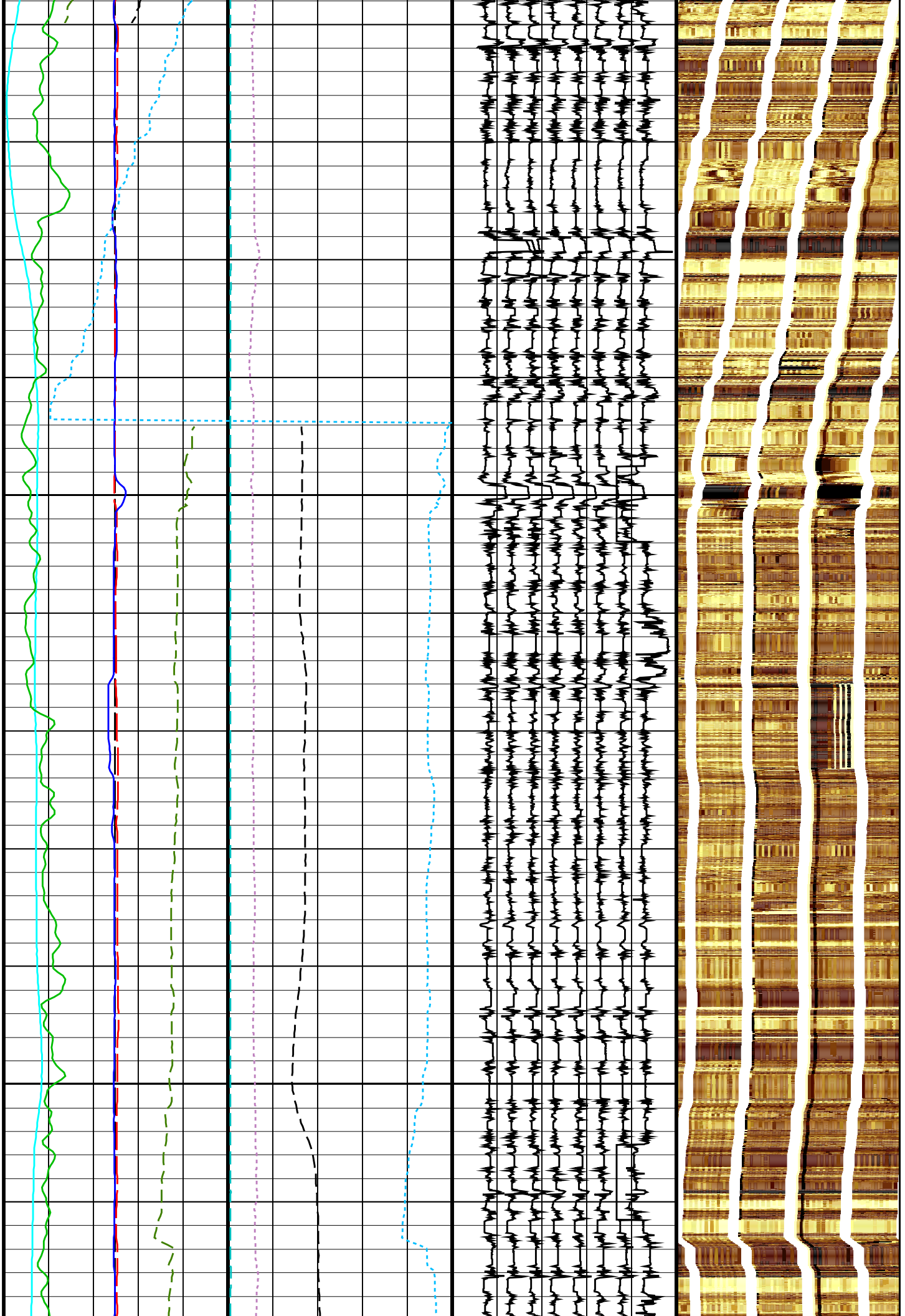
675

700



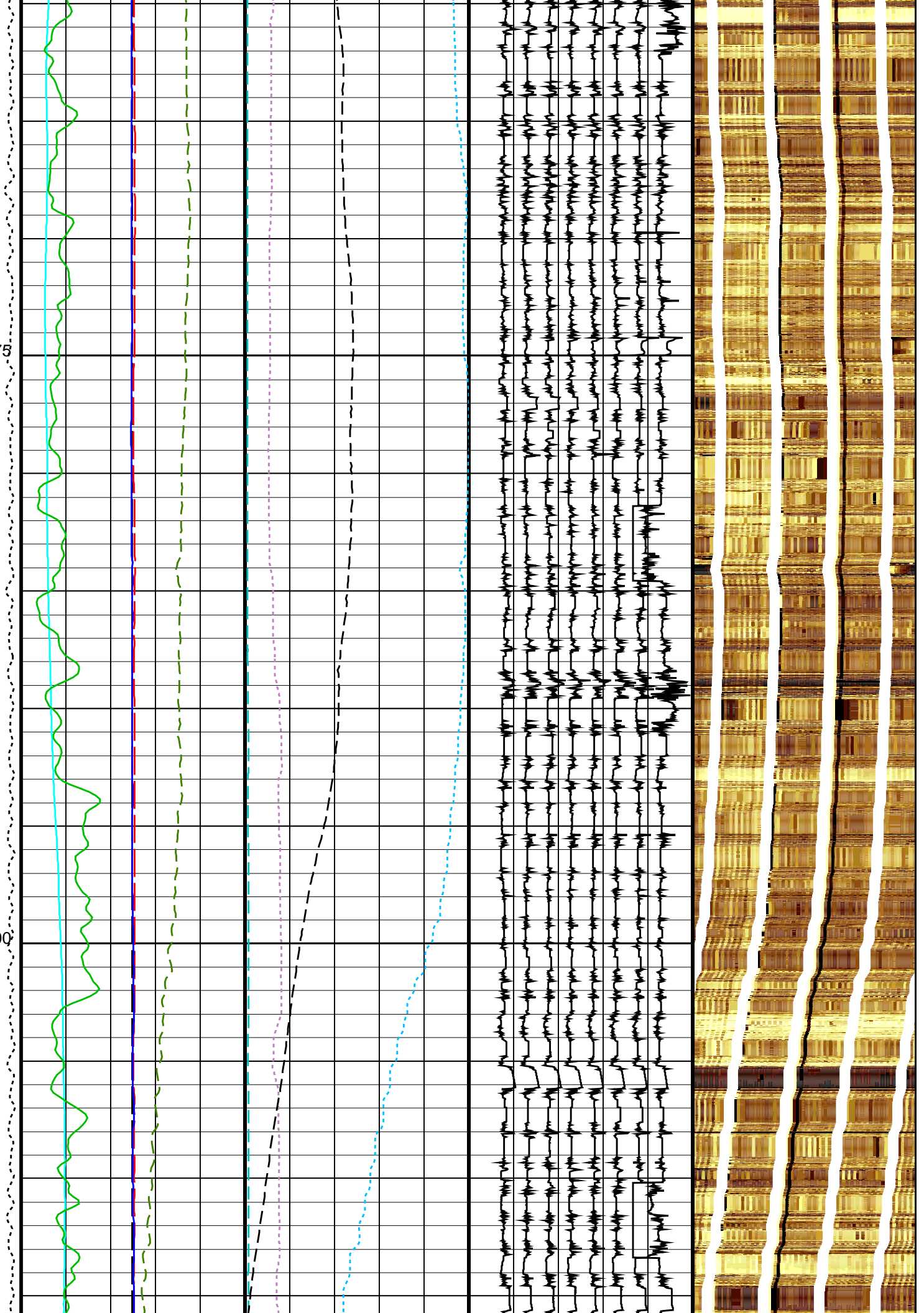
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750



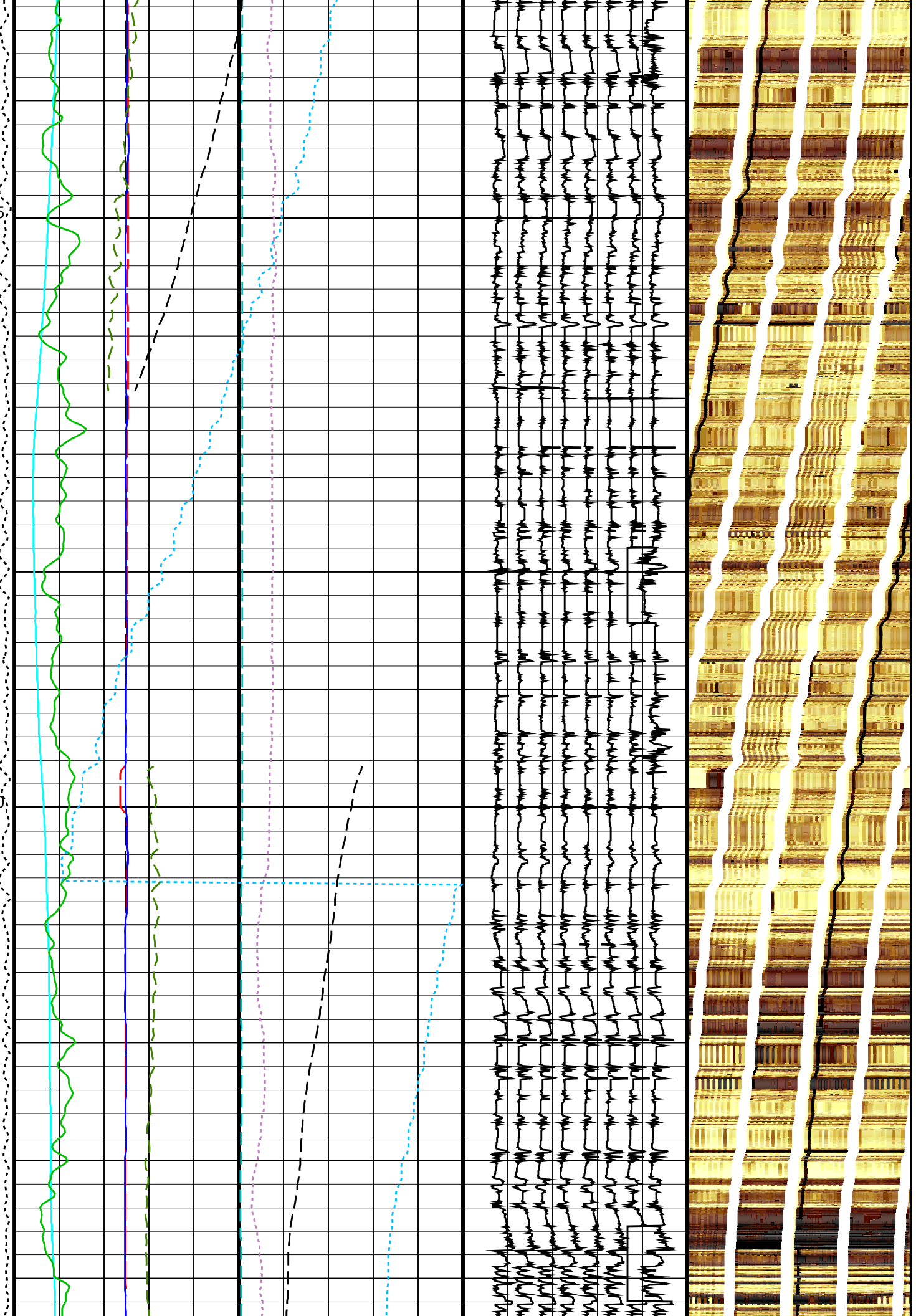
775

800



825

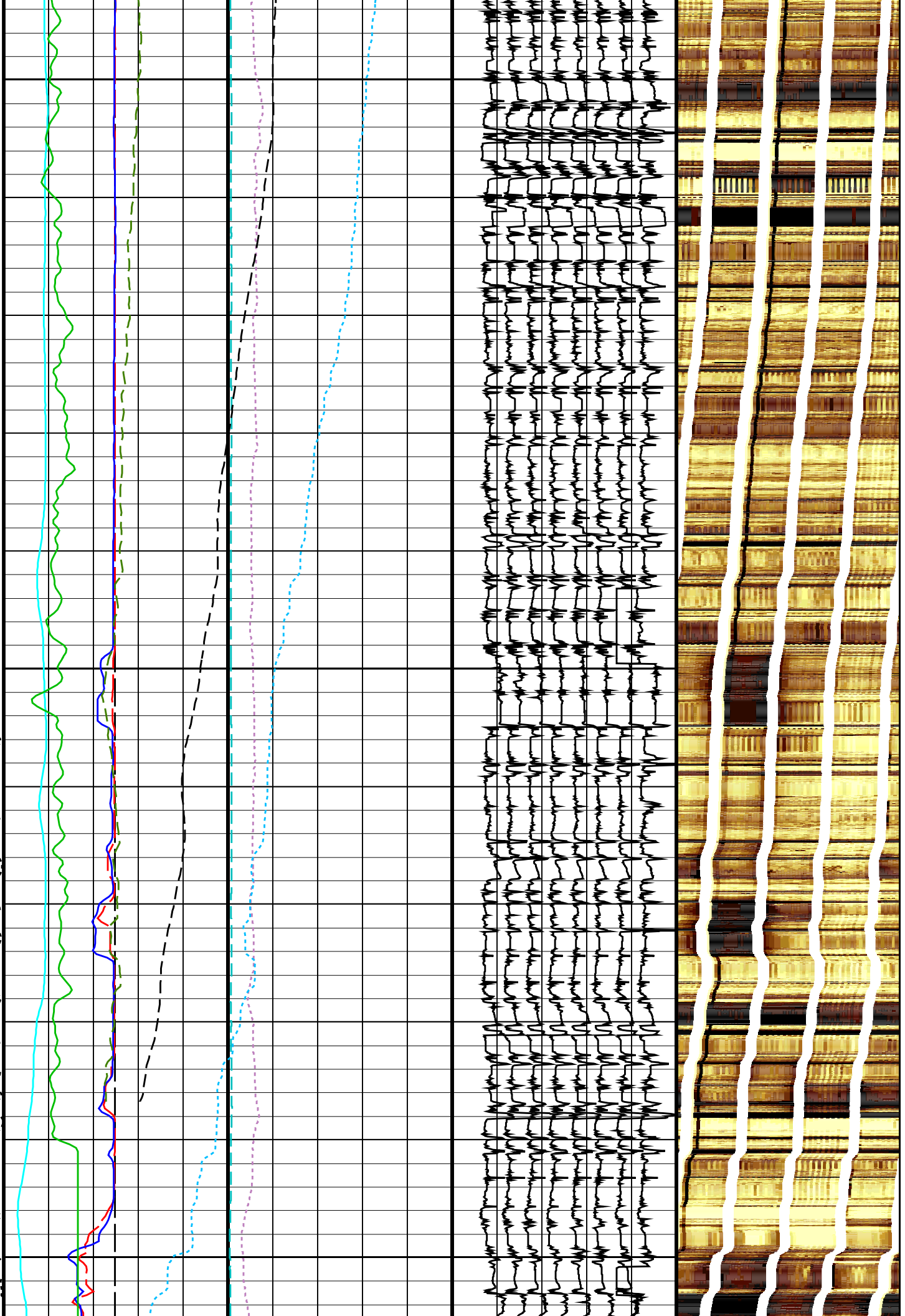
850

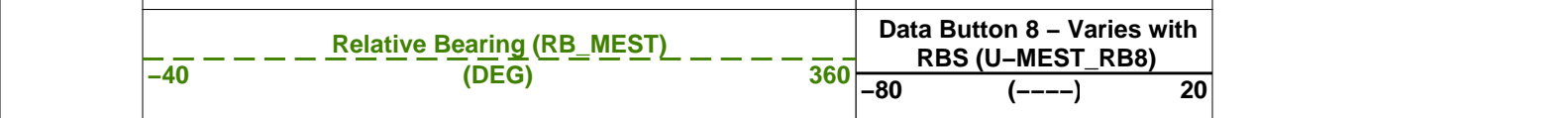
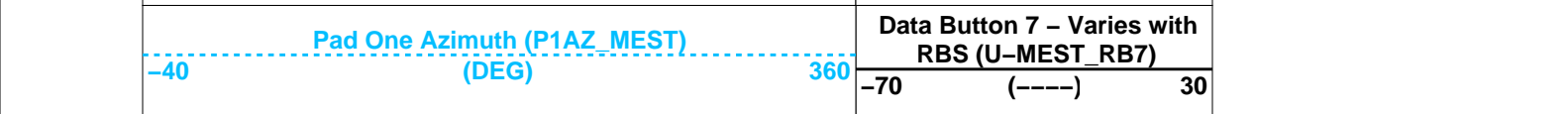
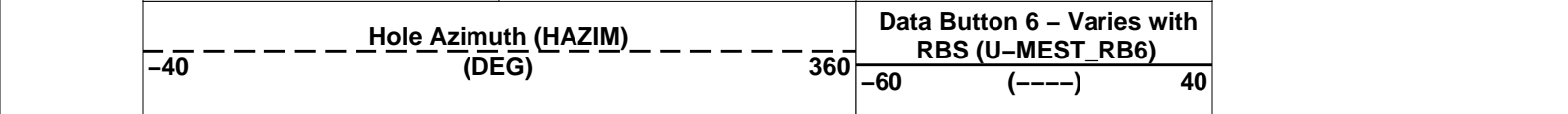
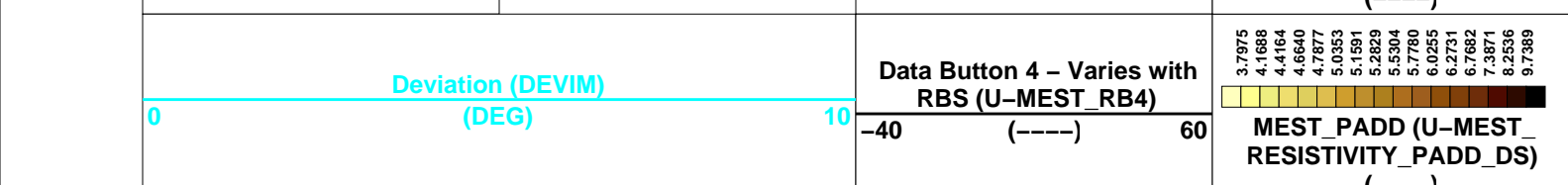
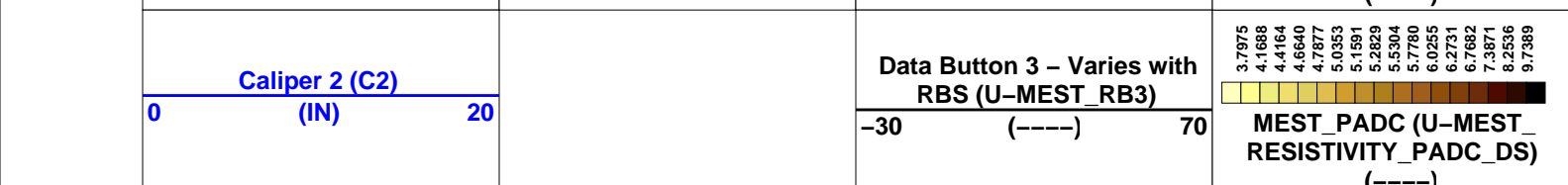
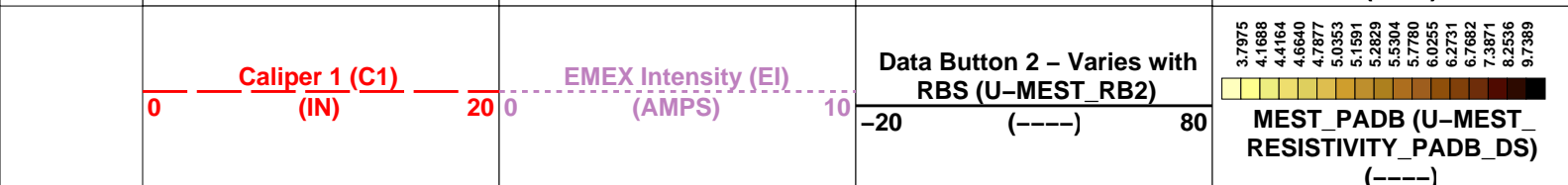
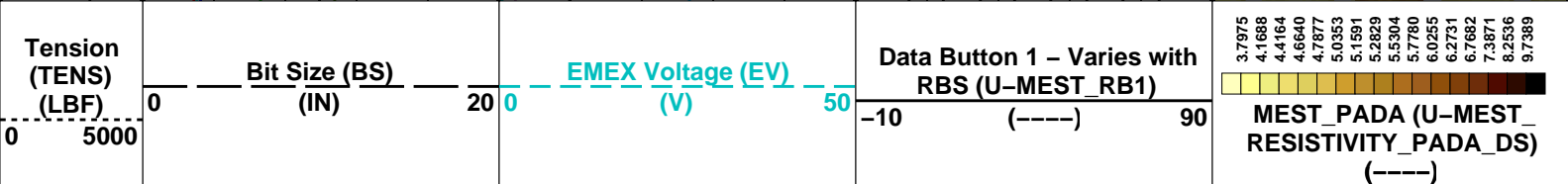
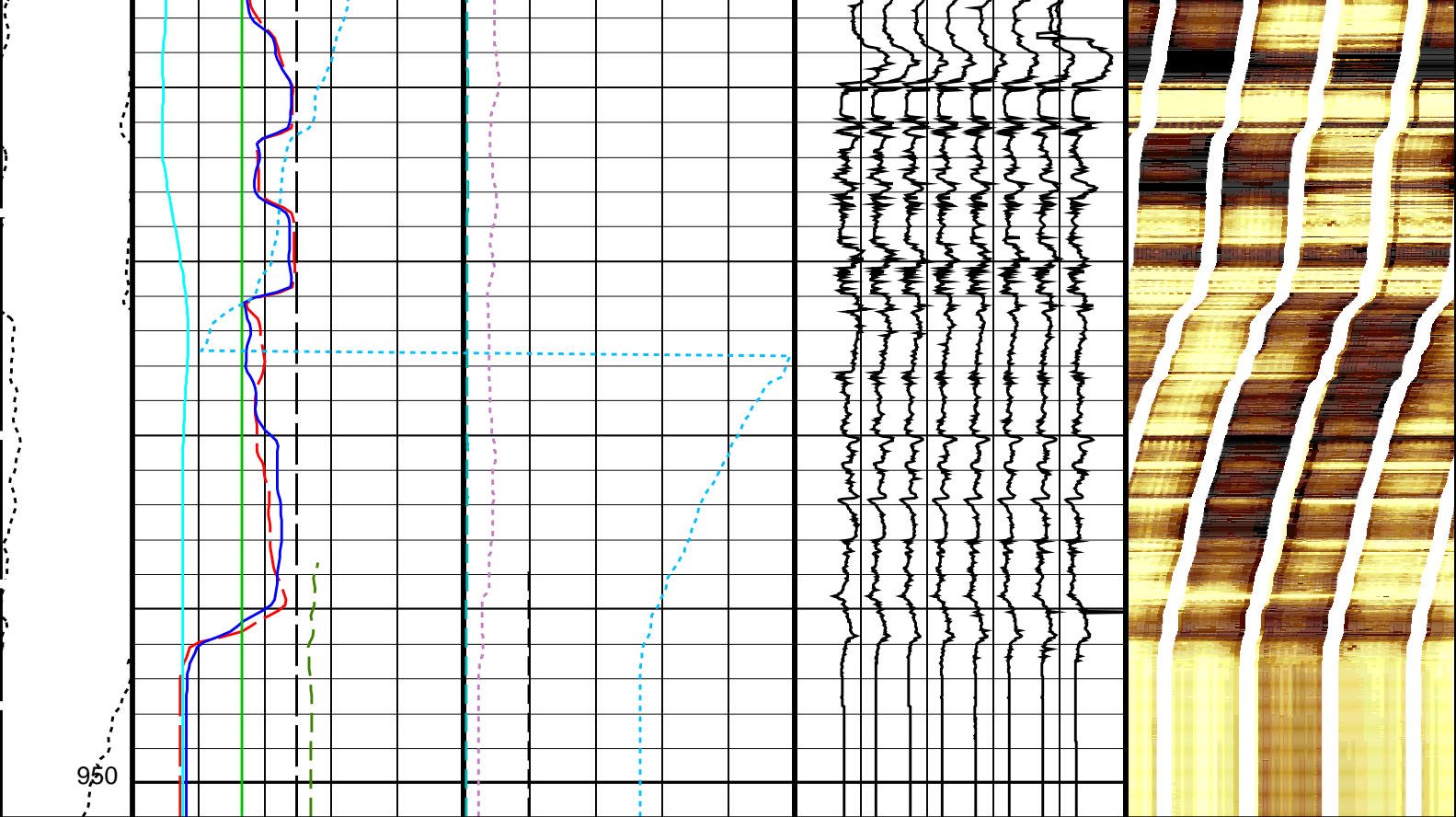


875

900

925





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	-6.02657 DEG
MLM	MEST Logging Mode	SCAN1800
RBS	Resistivity Button Selection	AUTO
XGAI	Gain	GAIN_2
XOFF	Offset	OFFSET_0
System and Miscellaneous		
BS	Bit Size	9.875 IN
DO	Depth Offset for Playback	-2122.9 M
PP	Playback Processing	RECOMPUTE

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:200 Graphics File Created: 25-Apr-2014 04:57

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	8453
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:28	PRODUCER	22-Apr-2014 20:12	3074.7 M	2750.5 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_052PUP	FN:67	PRODUCER	25-Apr-2014 04:57		
CLIENT	FMS_DSI_NGS_052PUC	FN:68	CUSTOMER	25-Apr-2014 04:57		



**Main Pass
1:200 Scale**

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 350, Site U1437D

Input DLIS Files

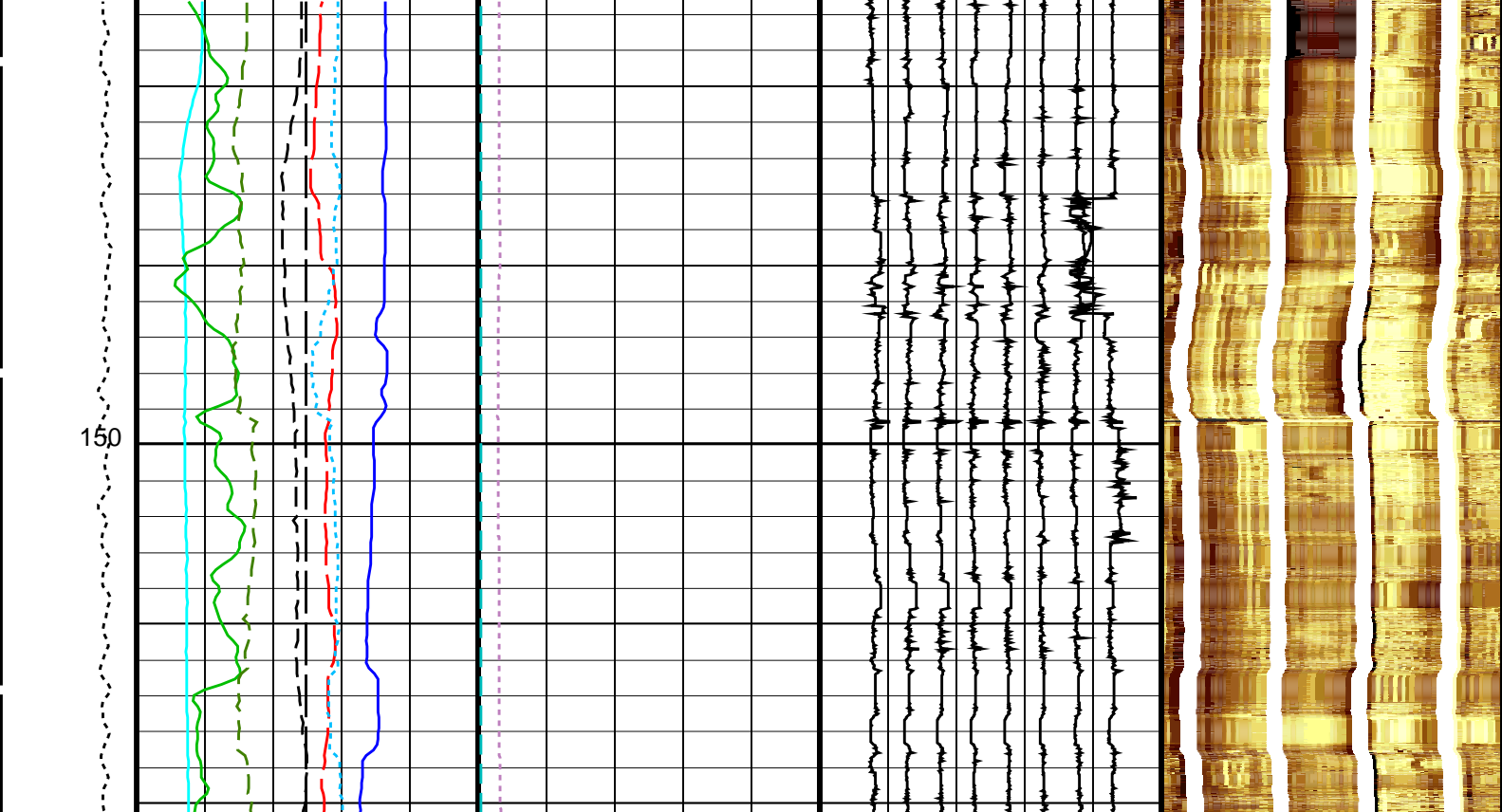
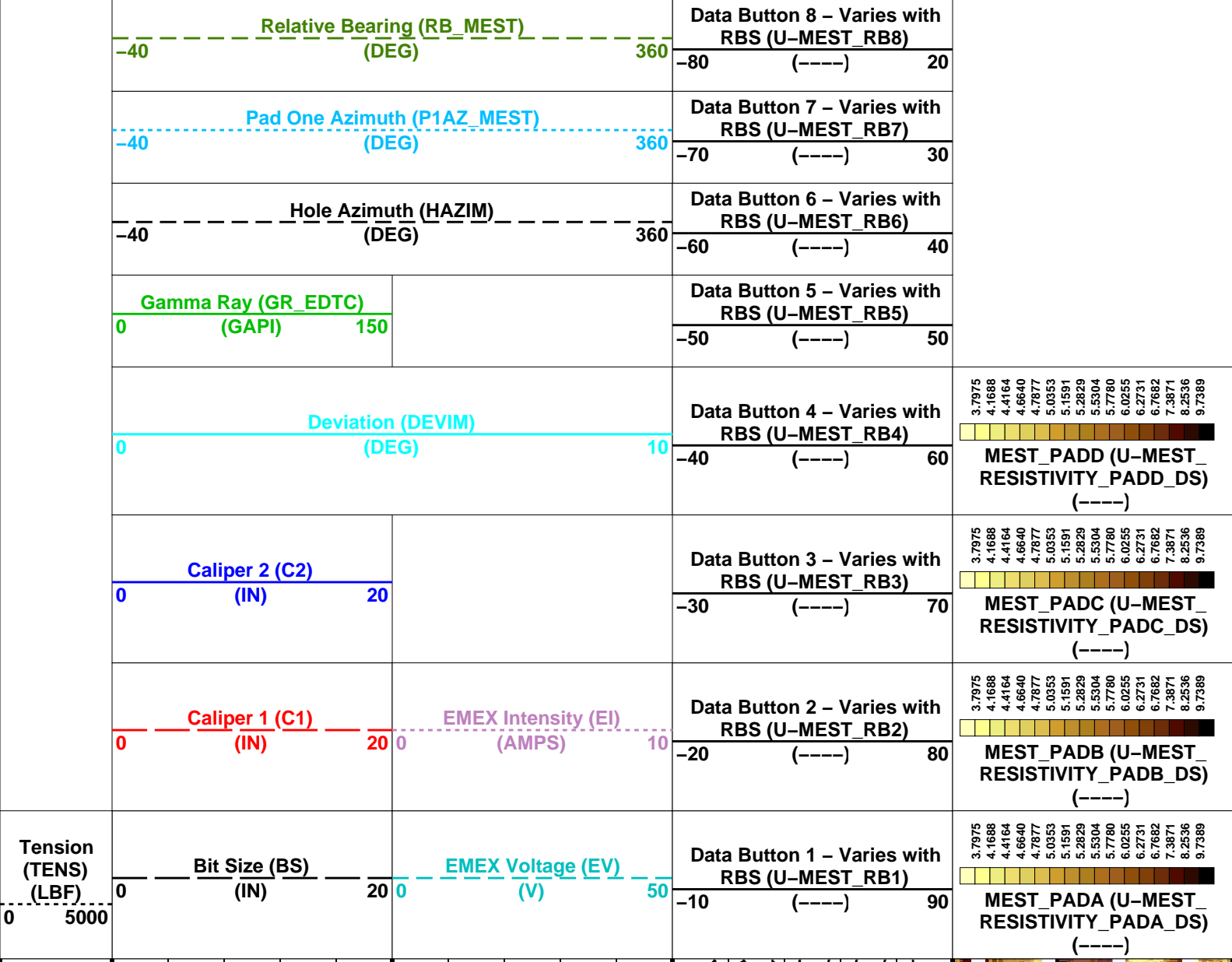
DEFAULT	FMS_DSI_NGS_026LUP	FN:30	PRODUCER	22-Apr-2014 21:11	3070.1 M	2260.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_050PUP	FN:63	PRODUCER	25-Apr-2014 04:51	946.4 M	137.5 M
CLIENT	FMS_DSI_NGS_050PUC	FN:64	CUSTOMER	25-Apr-2014 04:51	946.4 M	137.5 M

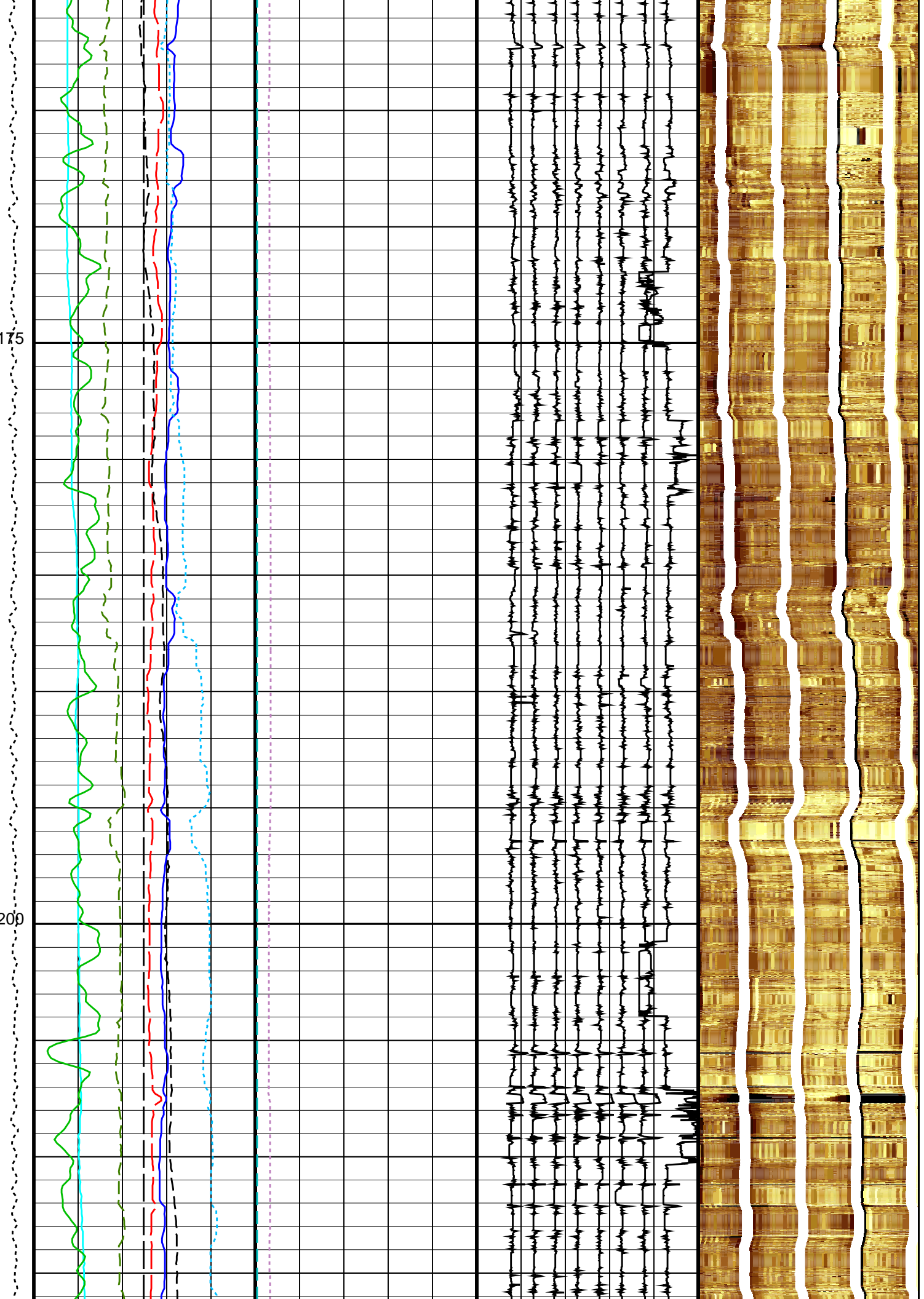
OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	8453
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB



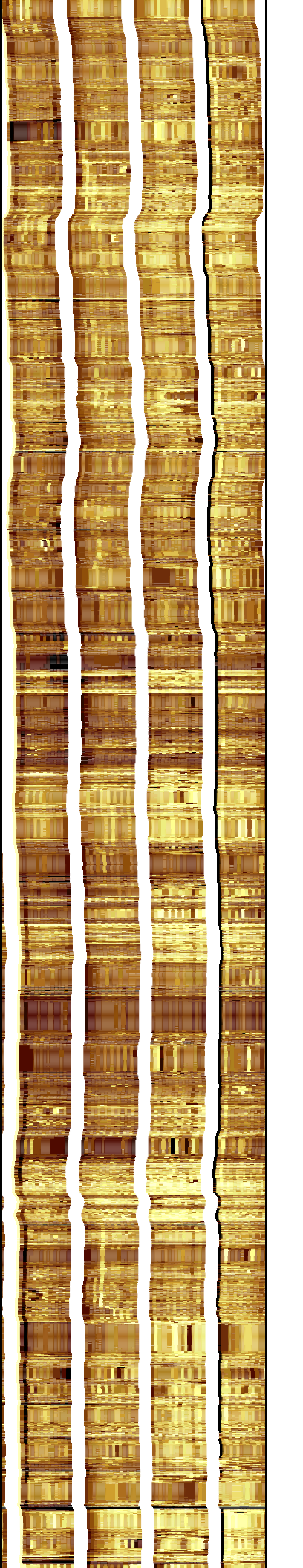
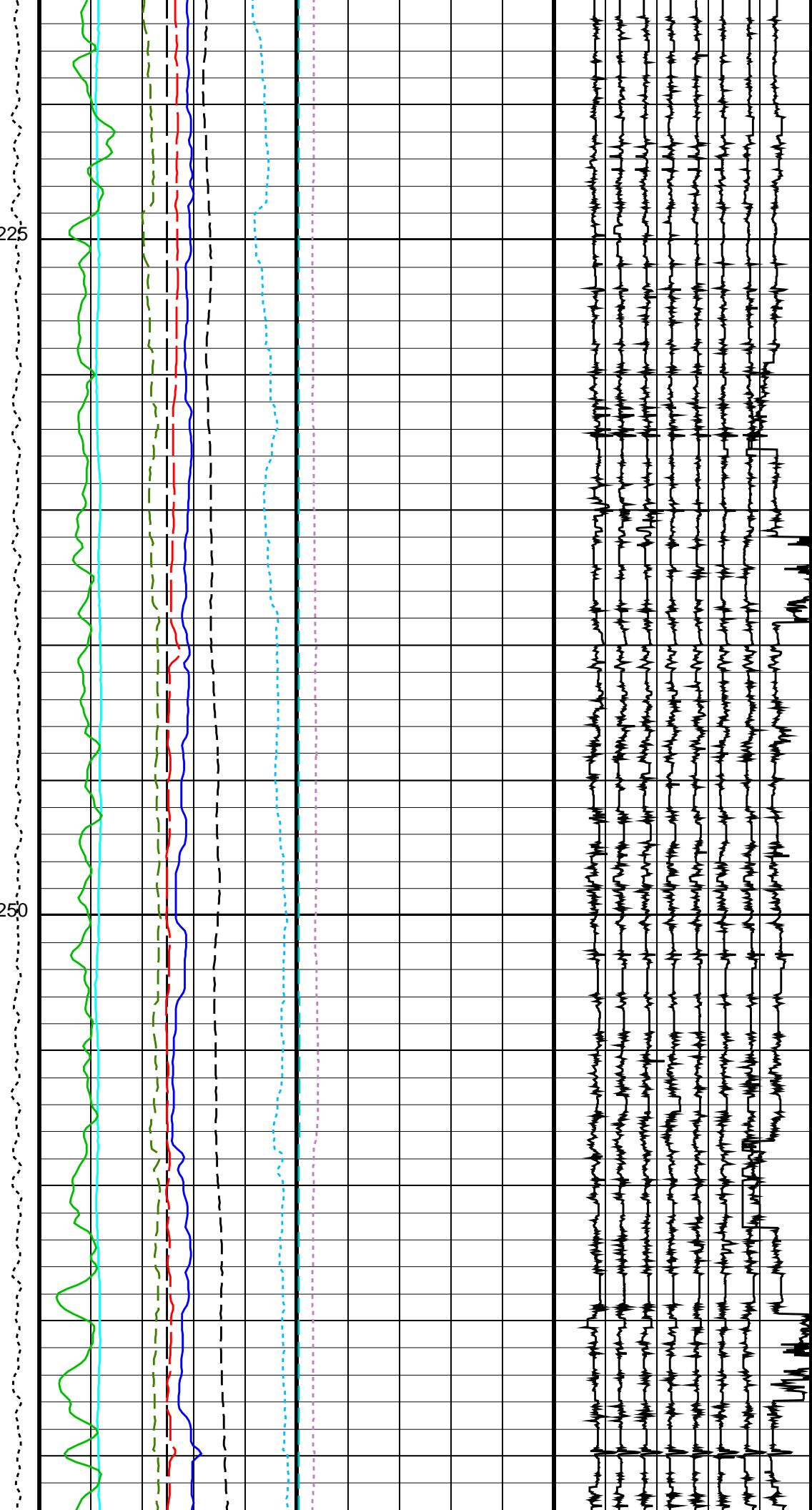
175

200



225

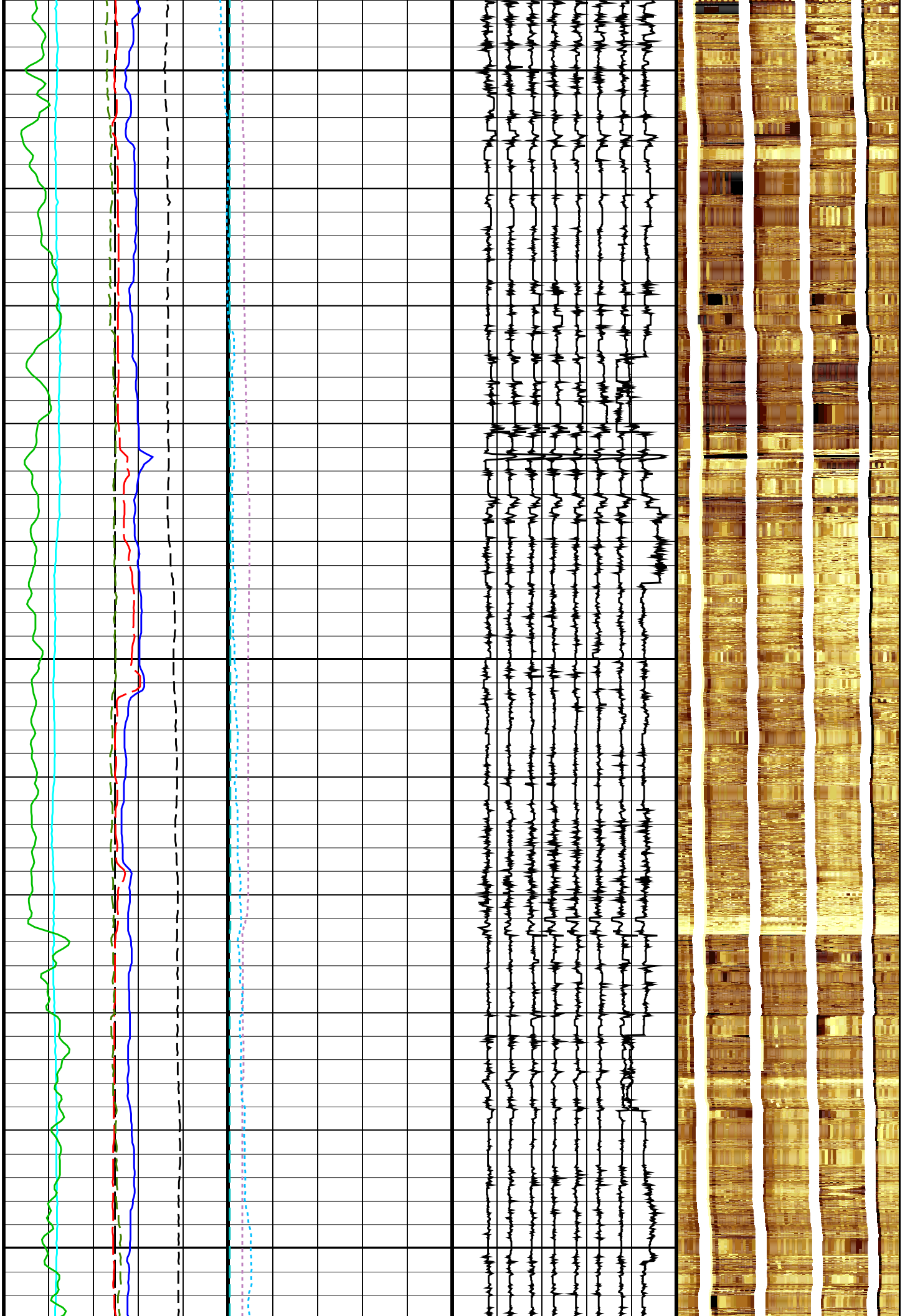
250



275

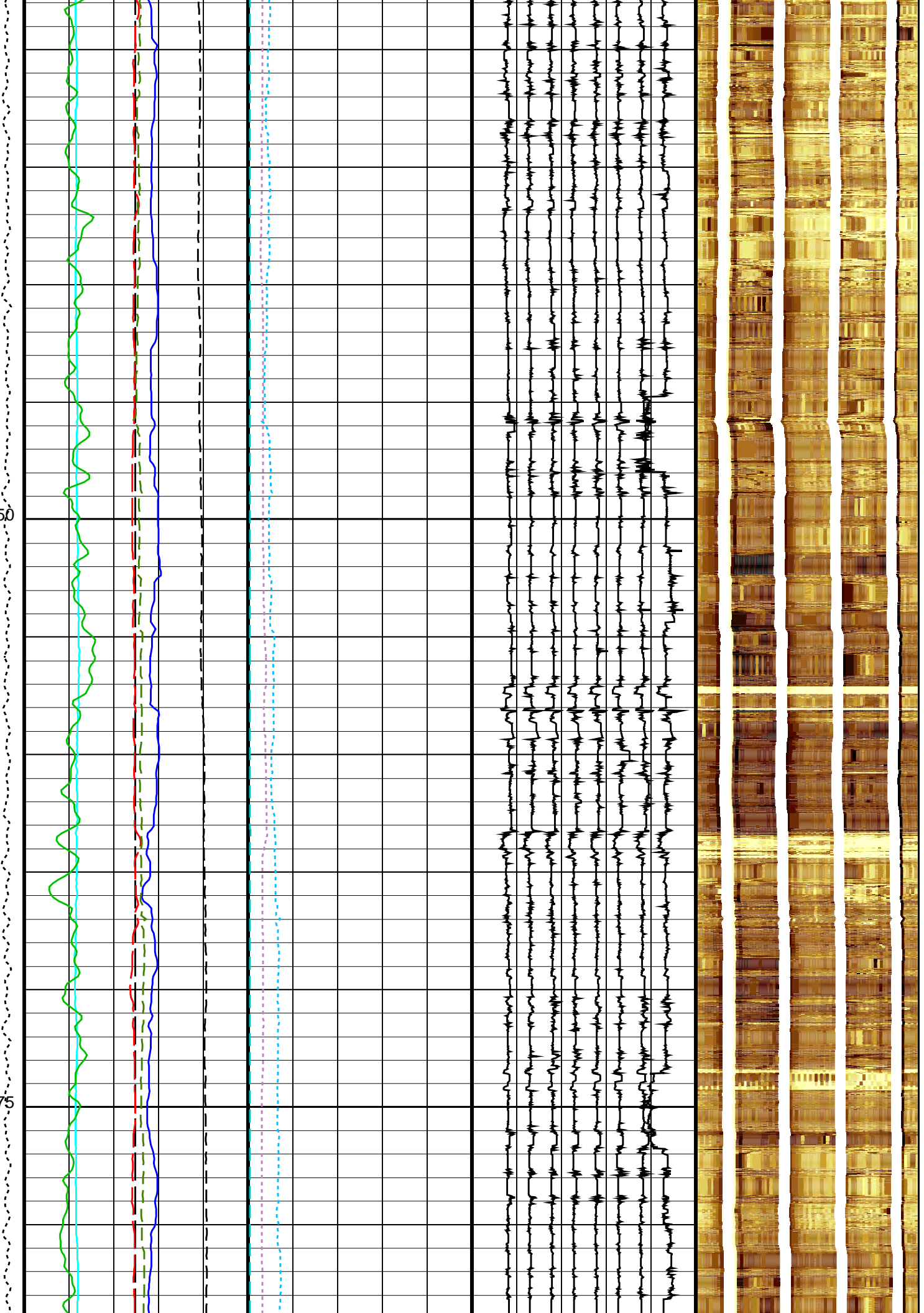
300

325



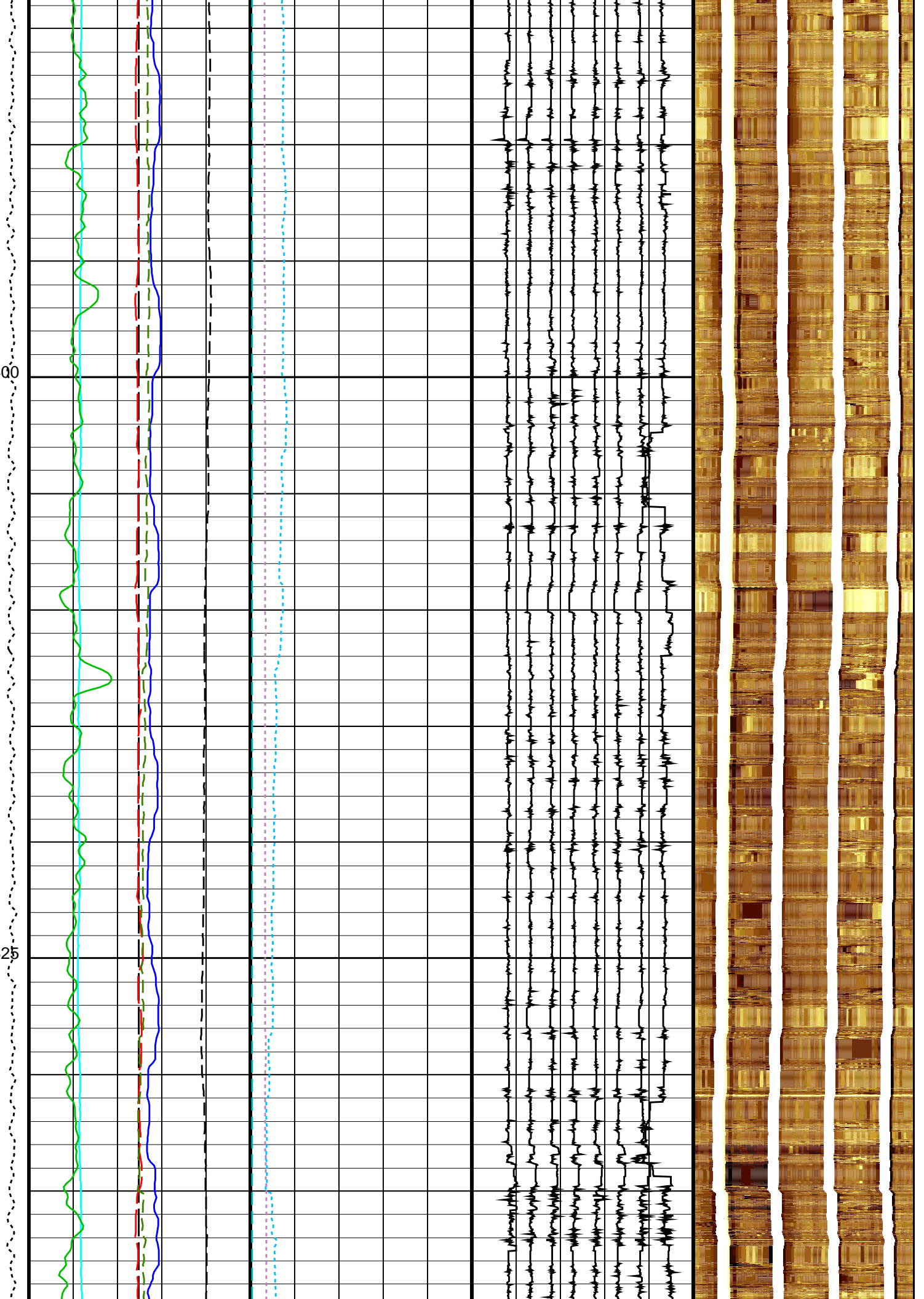
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375



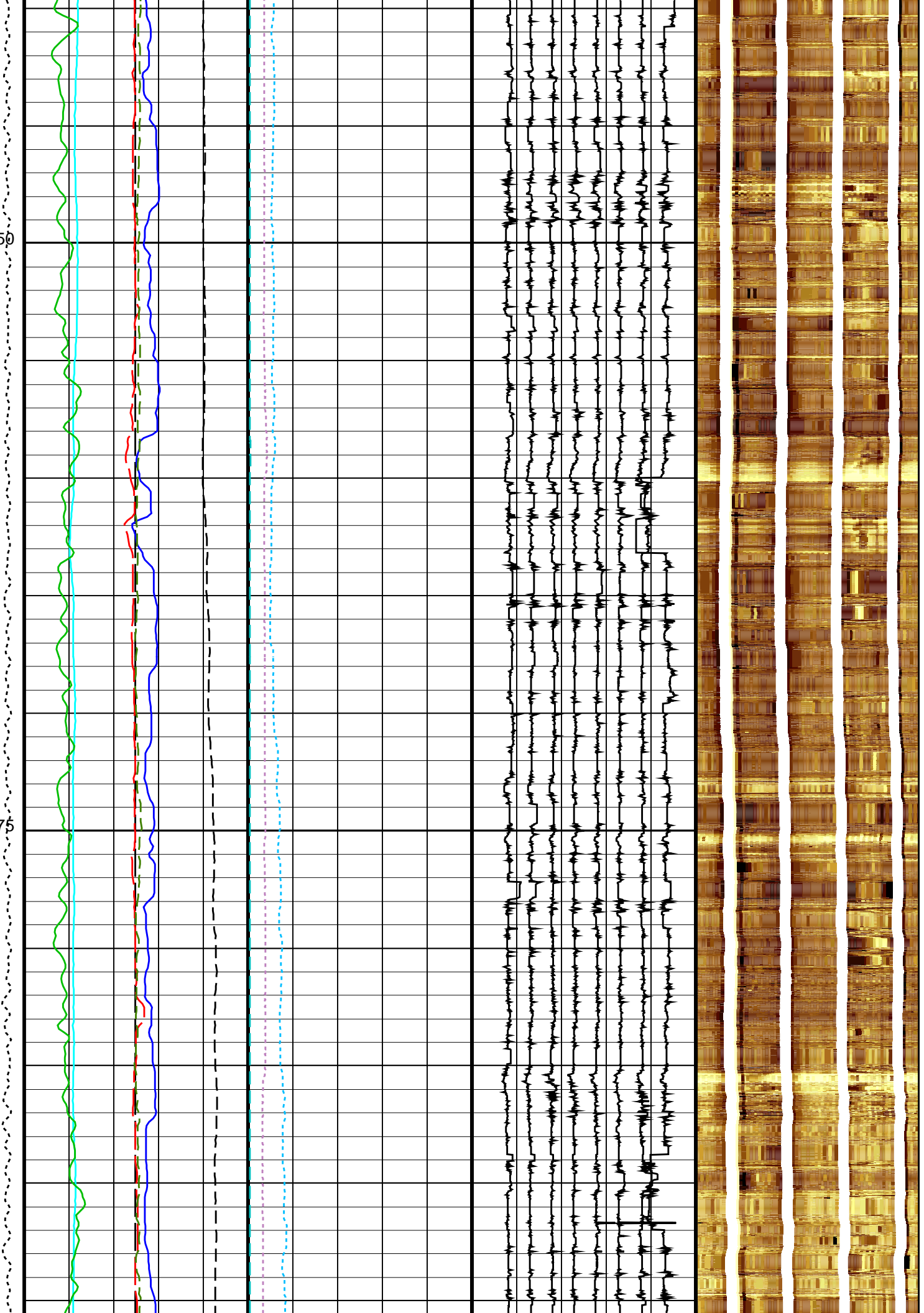
400

425



450

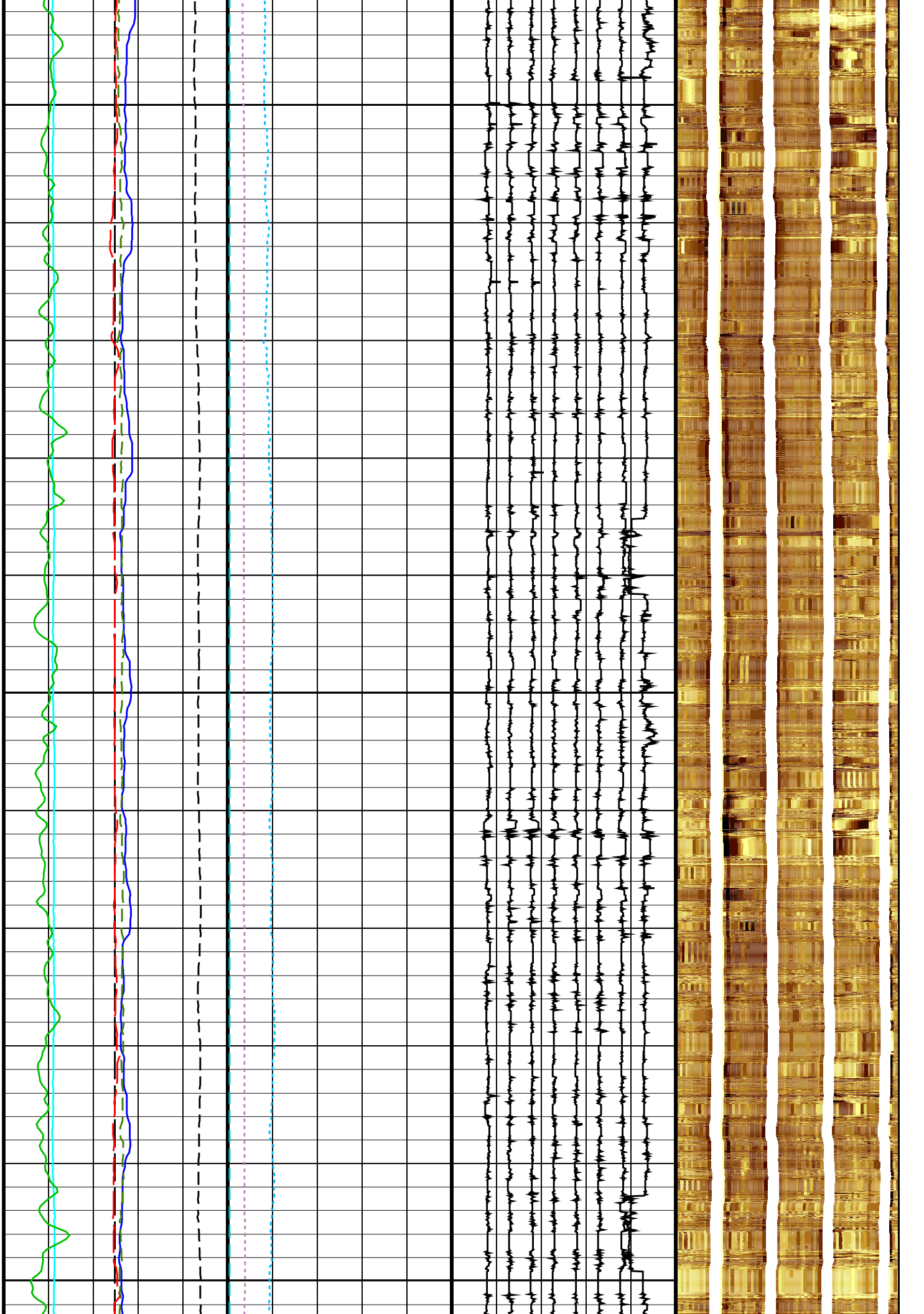
475



500

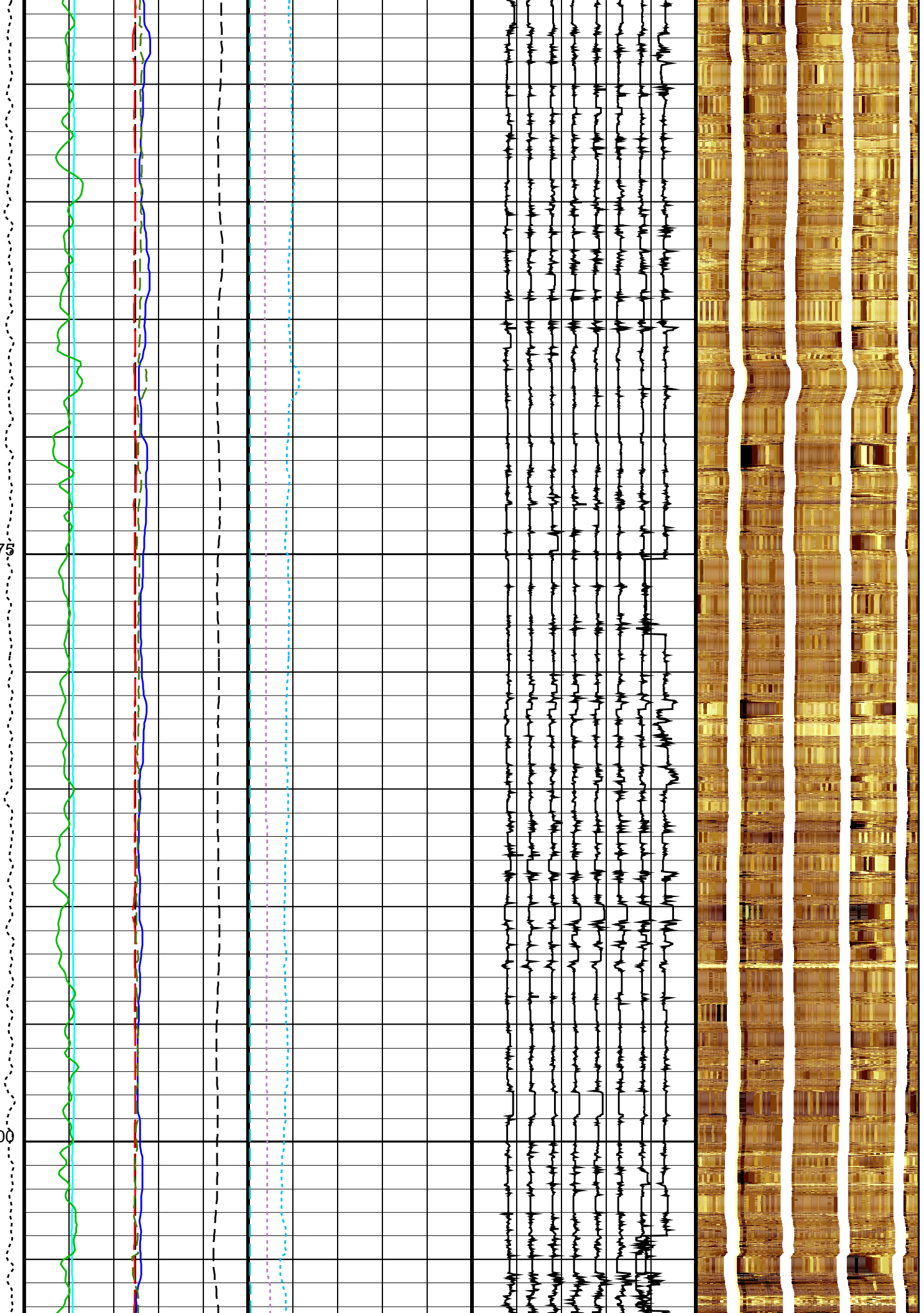
525

550



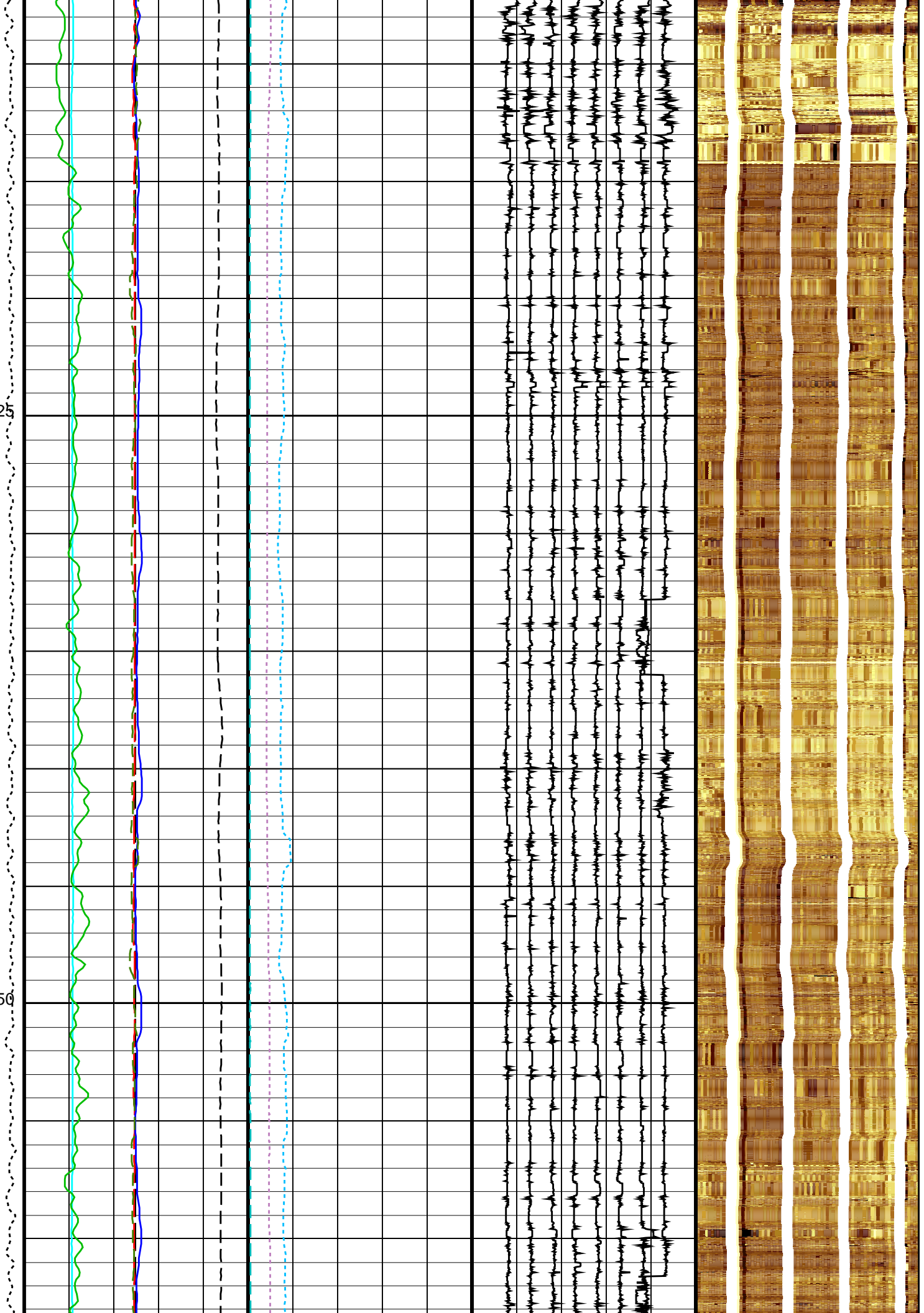
575

600



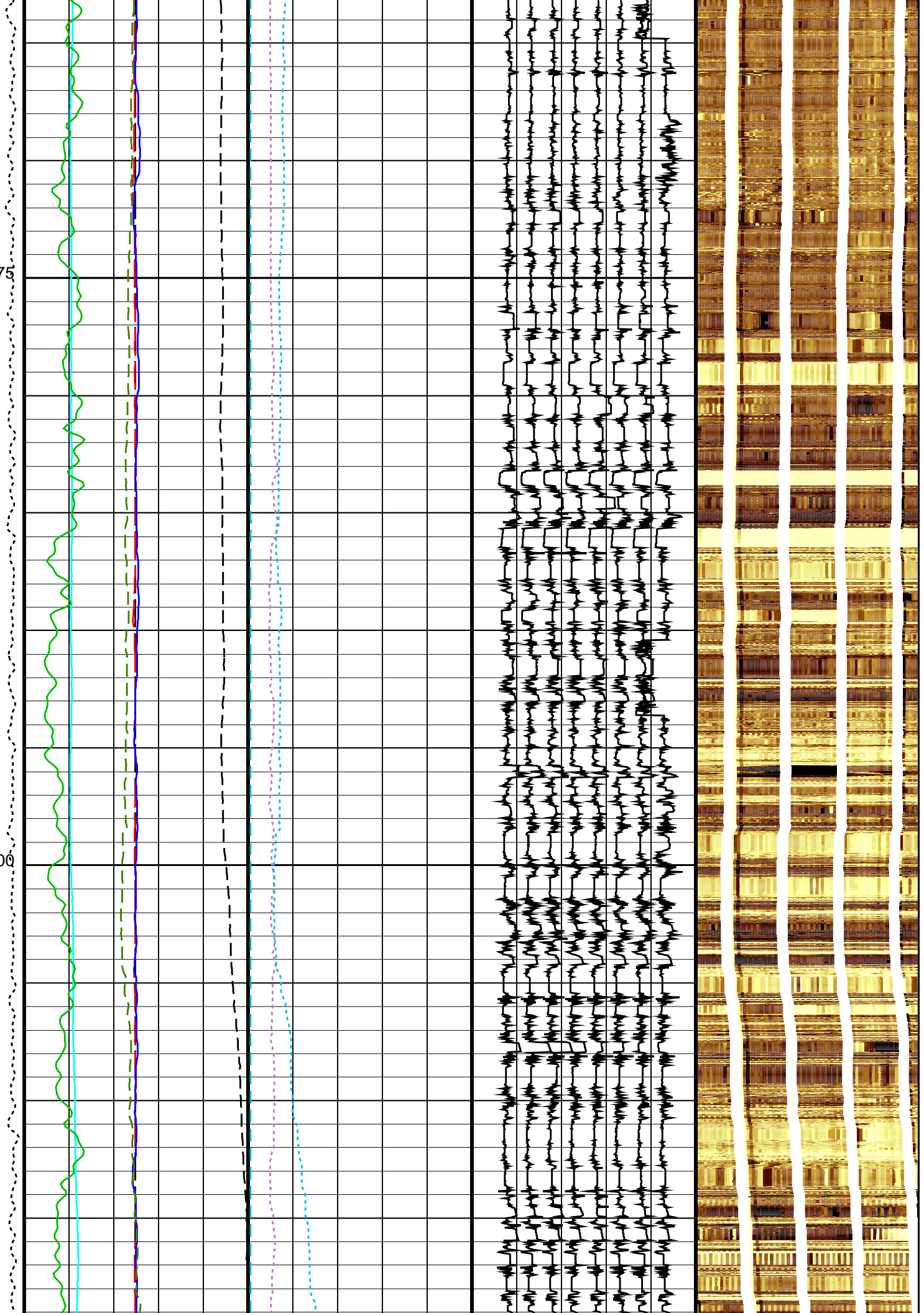
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650



675

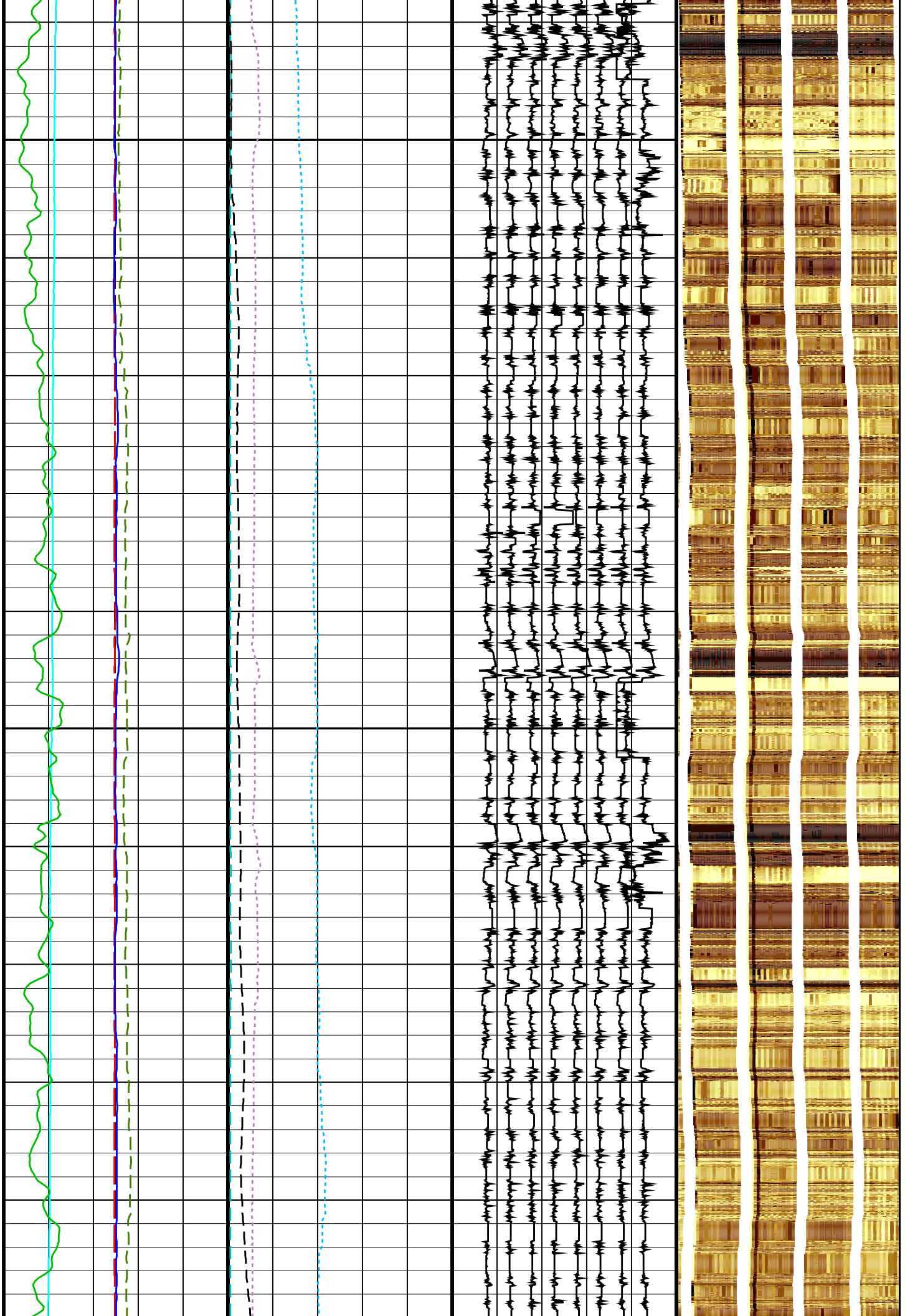
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725

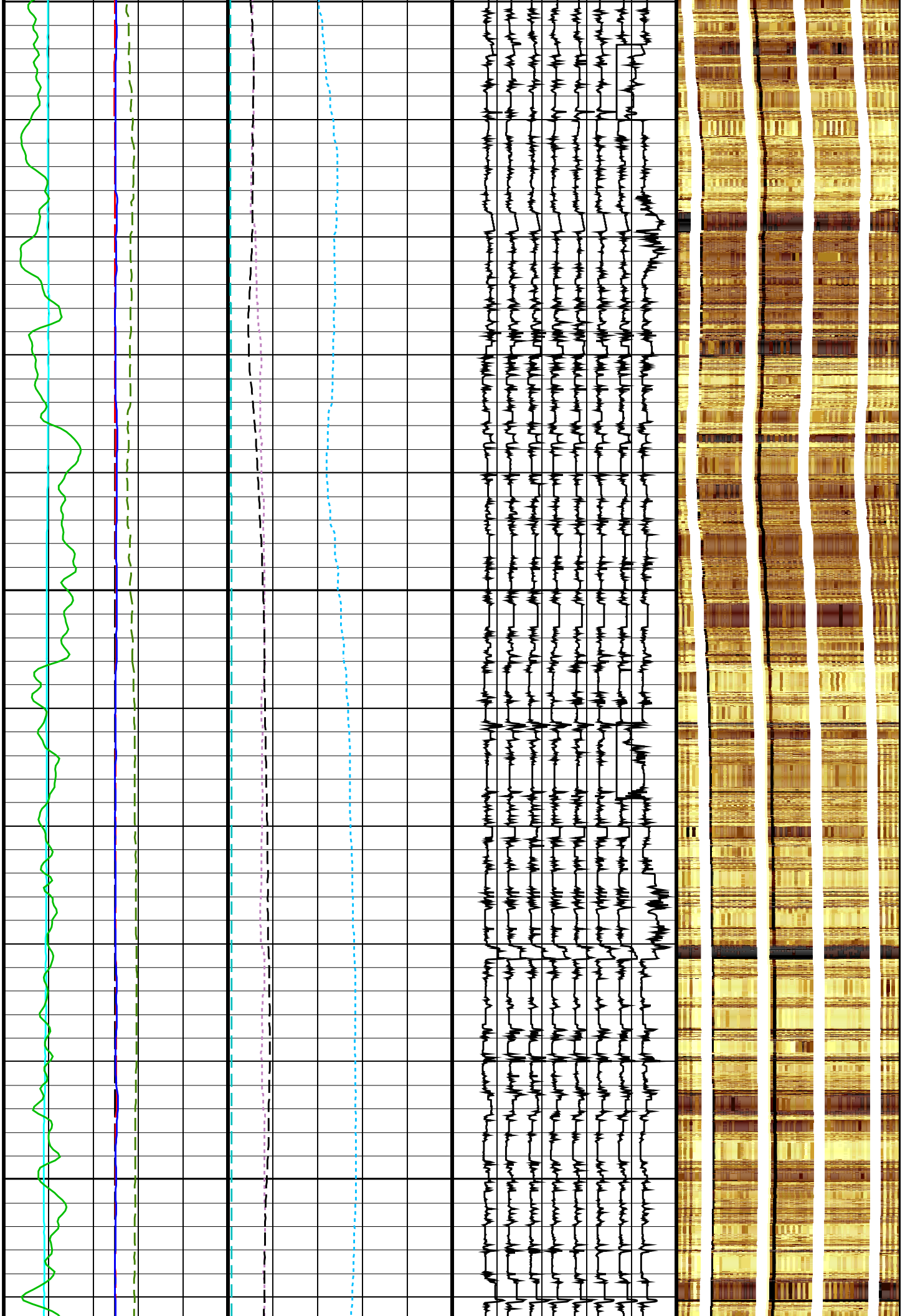
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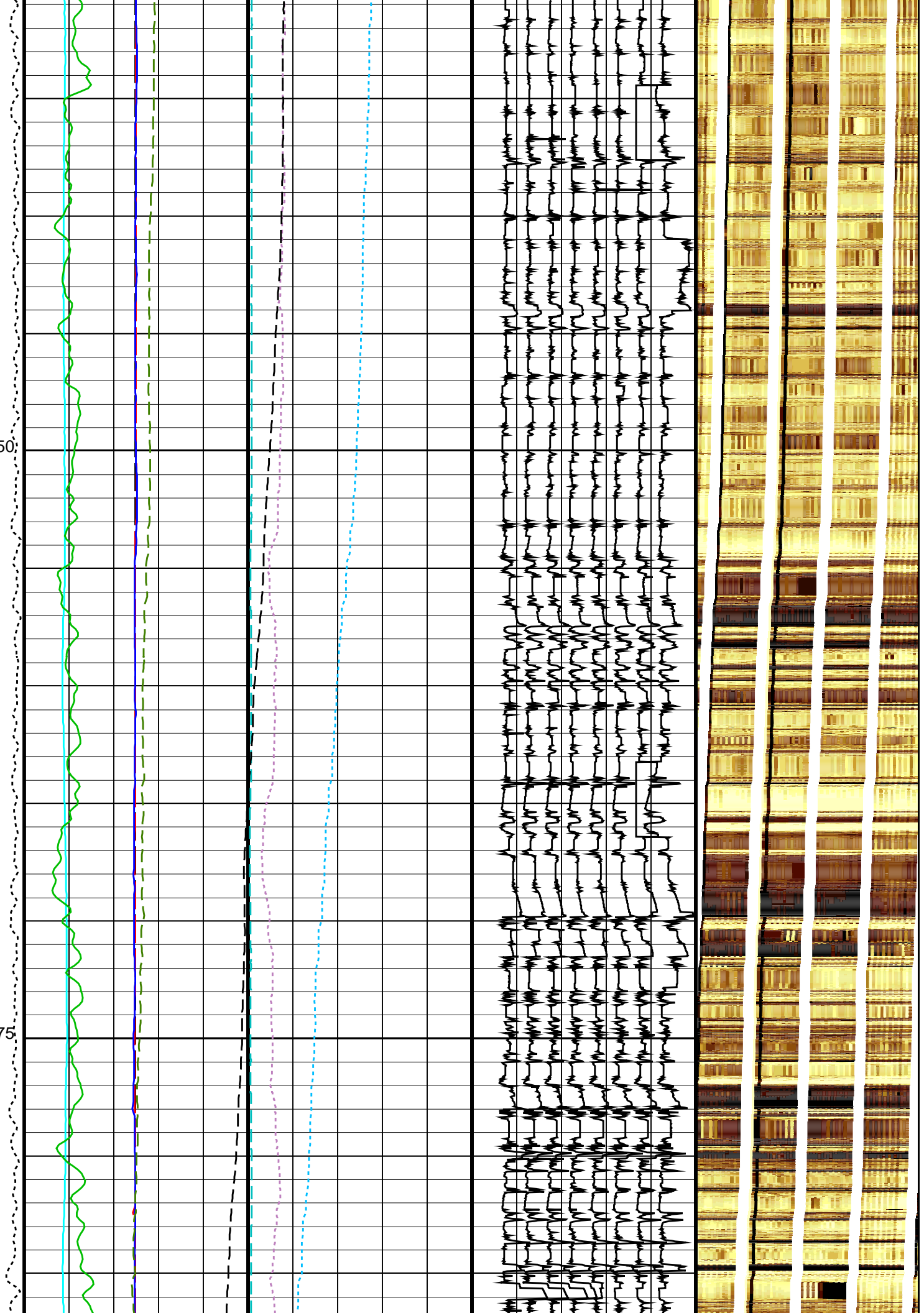
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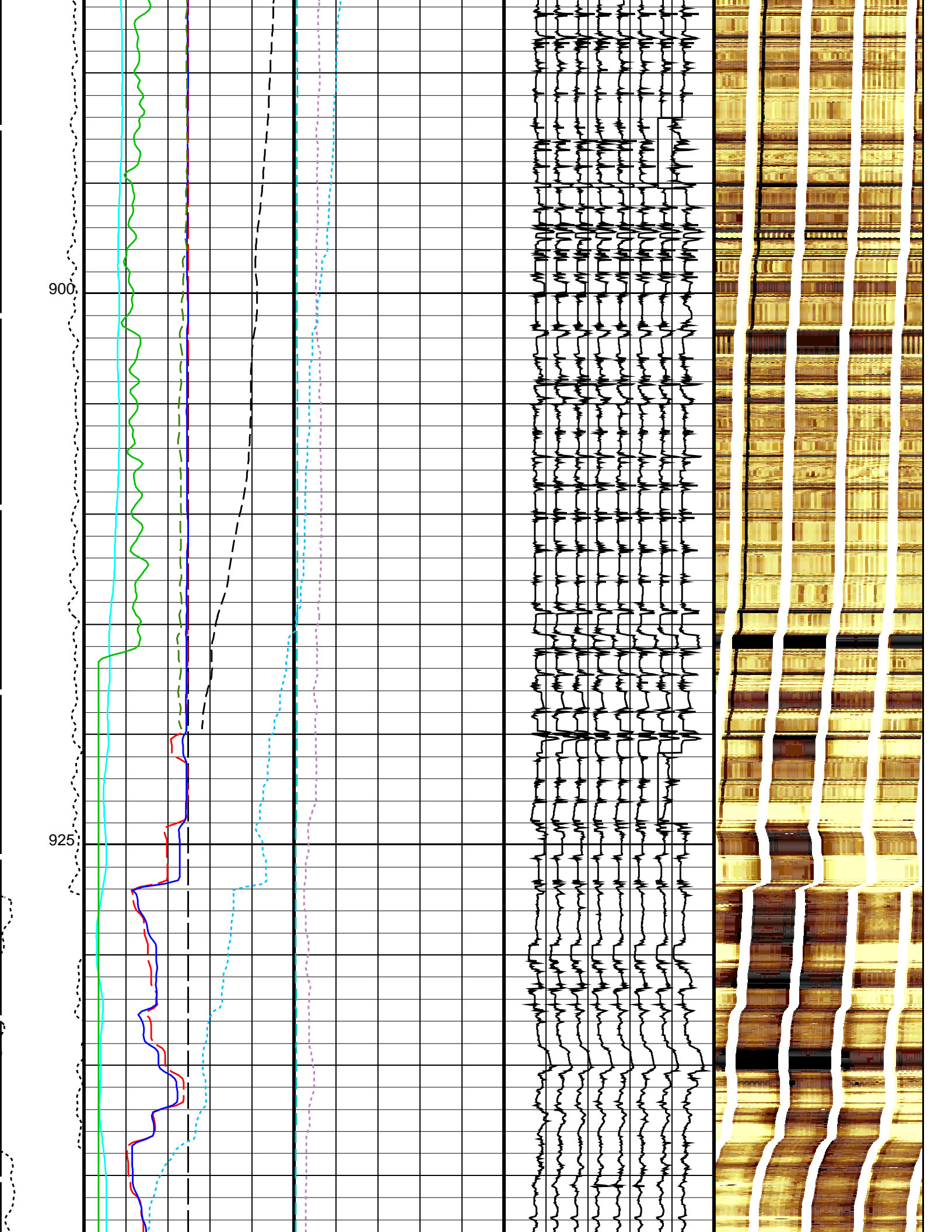
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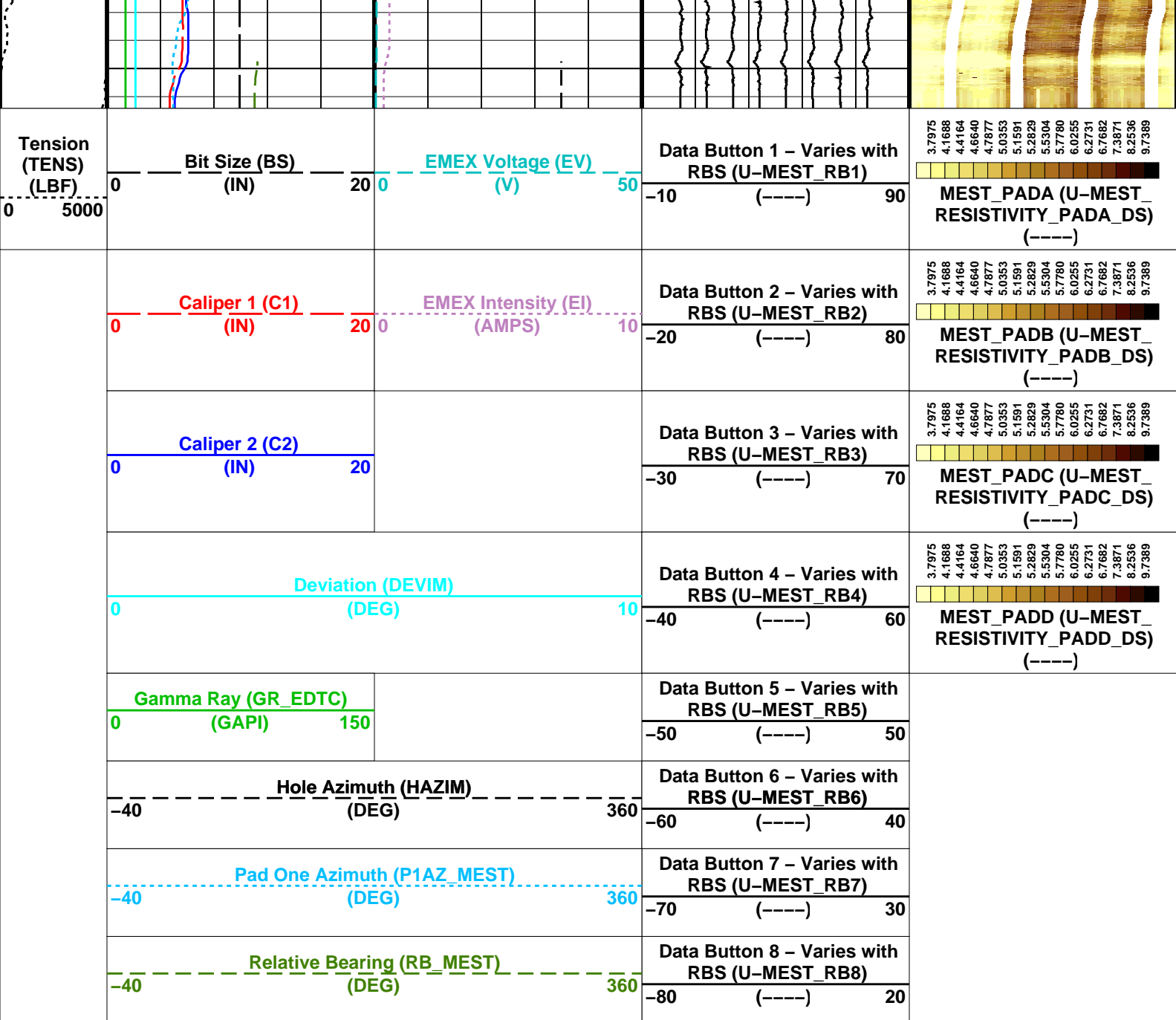


850

875







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	-6.02657 DEG
MLM	MEST Logging Mode	SCAN1800
RBS	Resistivity Button Selection	AUTO
XGAI	Gain	GAIN_2
XOFF	Offset	OFFSET_0
System and Miscellaneous		
BS	Bit Size	9.875 IN
DO	Depth Offset for Playback	-2122.7 M
PP	Playback Processing	RECOMPUTE

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:200

Graphics File Created: 25-Apr-2014 04:51

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	8453
DSST-B	19C0-187	HNGC-B	19C0-187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_026LUP	FN:30	PRODUCER	22-Apr-2014 21:11	3070.1 M	2260.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_050PUP	FN:63	PRODUCER	25-Apr-2014 04:51		
CLIENT	FMS_DSI_NGS_050PUC	FN:64	CUSTOMER	25-Apr-2014 04:51		



Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner – B (Slim) Wellsite Calibration – Caliper Calibration							
Before: Calibration out of date 4-Feb-2014 3:22							
Caliper 1 Zero Measurement	12.00	N/A	11.98	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.05	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.18	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.38	N/A	N/A	N/A	IN
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER							
Before: 22-Apr-2014 17:16							
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							
Before: 22-Apr-2014 17:16							
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: 4-Feb-2014 21:51 Before: 4-Feb-2014 22:02 After: 4-Feb-2014 22:07							
Na 511 Peak Loc	40.00	39.52	39.48	39.57	0.09216	1.000	
Na 511 Peak Res	15.50	15.96	16.77	17.05	0.2800	2.000	%
High Voltage	1150	1194	1193	1193	0.08801	N/A	V
Na 1785 Peak Loc	142.6	142.1	141.8	142.0	0.2398	7.000	
Na 1785 Peak Res	8.500	9.703	8.709	9.174	0.4646	2.000	%
Temperature	15.50	35.74	35.71	35.75	0.03577	N/A	DEGC
Na Count Rate	45.00	11.77	12.16	12.19	0.02500	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 4-Feb-2014 21:51 Before: 4-Feb-2014 22:02 After: 4-Feb-2014 22:07							
Na 511 Peak Loc	40.00	39.56	39.51	40.01	0.4946	1.000	
Na 511 Peak Res	15.50	16.07	16.56	16.11	-0.4463	2.000	%
High Voltage	1150	1126	1128	1128	0.1504	N/A	V
Na 1785 Peak Loc	142.6	142.3	143.1	142.2	-0.8427	7.000	
Na 1785 Peak Res	8.500	8.959	9.953	8.887	-1.065	2.000	%
Temperature	15.50	36.60	36.88	36.96	0.08454	N/A	DEGC
Na Count Rate	45.00	12.28	12.68	12.52	-0.1613	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 4-Feb-2014 21:51 Before: 4-Feb-2014 22:02 After: 4-Feb-2014 22:07							
Coincidence Count Rate Ratio	1.000	0.9624	0.9606	0.9690	0.008355	0.05000	

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 22-Apr-2014 8:07

EDTC Z-Axis Acceleration	9.810	N/A	9.752	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 22-Apr-2014 8:17 After: 22-Apr-2014 15:50

Gamma Ray (Jig – Bkg)	156.4	N/A	156.4	158.2	1.813	14.22	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	166.9	1.913	15.00	GAPI

Micro Electrical Scanner – B (Slim) / Equipment Identification

Primary Equipment:

MEST Sonde – B	MEDS – B	724
MEST Preamplifier Cartridge – AB	MEPC – AB	807
GPIT Cartridge – AC	GPIC – AC	840
MEST Acquisition Cartridge – A	MEAC – A	875

Auxiliary Equipment:

MEST-B Preamplifier Cartridge Housing	MEPH – A	702
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	769

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC – B	300
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Auxiliary Equipment:

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

Primary Equipment:

HNGS Sonde	HNGS – BA	194
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Auxiliary Equipment:

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

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.52	Master		15.96	Master		1194
Before		39.48	Before		16.77	Before		1193
After		39.57	After		17.05	After		1193
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		142.1	Master		9.703	Master		35.74
Before		141.8	Before		8.709	Before		35.71
After		142.0	After		9.174	After		35.75
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		11.77						
Before		12.16						
After		12.19						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 4-Feb-2014 21:51			Before: 4-Feb-2014 22:02			After: 4-Feb-2014 22:07		

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 350, Site U1437D**

Field: **IBM-1 (Rear Arc)**

Rig: **JOIDES Resolution**

Country:

FMS Micro-Resistivity