

Input DLIS Files

DEFAULT

USI\_SONIC\_023PUP

FN:38

PRODUCER

17-Sep-2013 21:11

8367.0 FT

99.5 FT

Output DLIS Files

DEFAULT

USI\_SONIC\_024PUP

FN:40

PRODUCER

17-Sep-2013 21:33

8365.0 FT

97.5 FT

RTB

USI\_SONIC\_024PUP

FN:41

PRODUCER

17-Sep-2013 21:27

8365.0 FT

97.5 FT

OP System Version: 19C1-222

USIT-D

19C1-222

DSLT-FTB

19C1-222

SGT-N

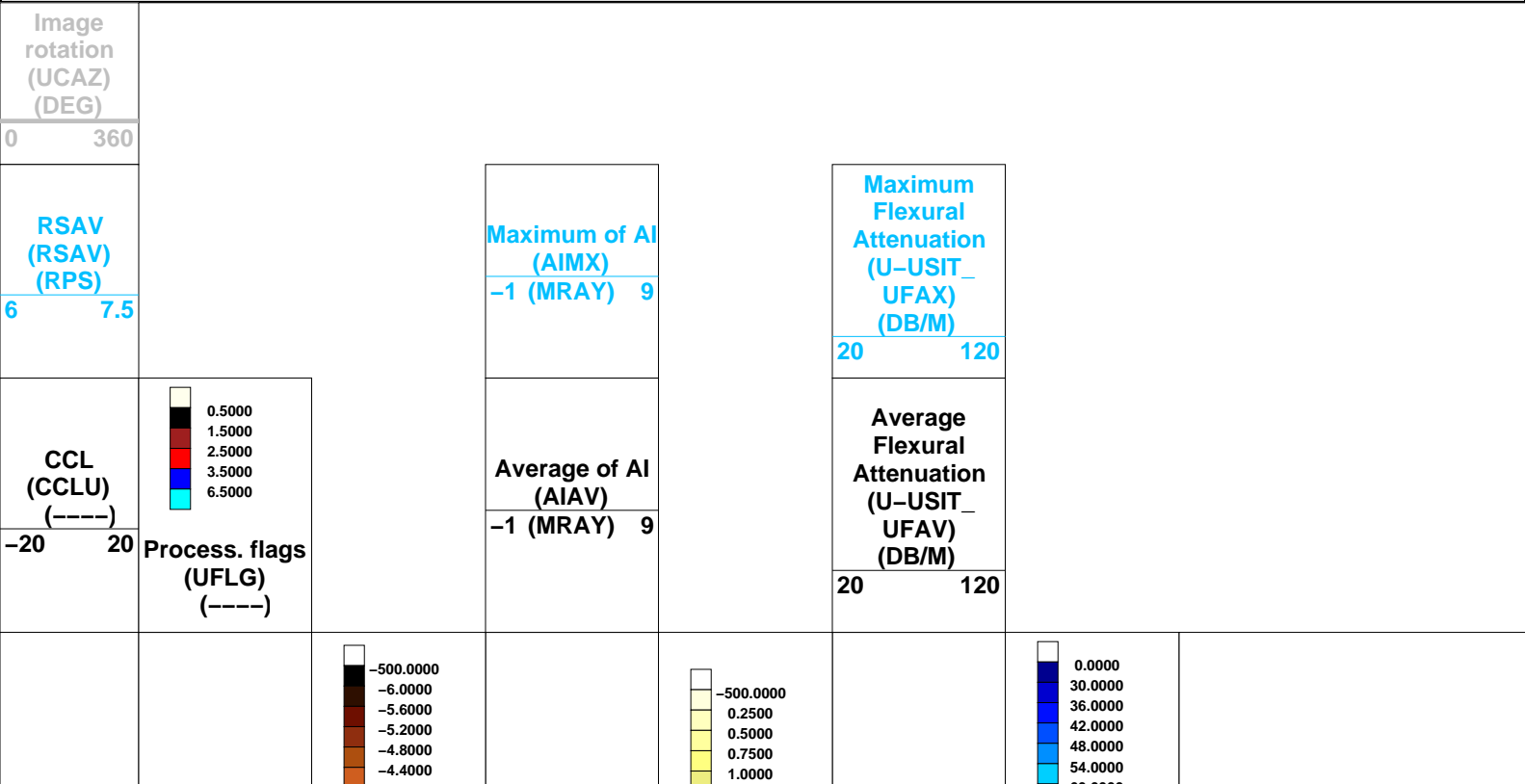
19C1-222

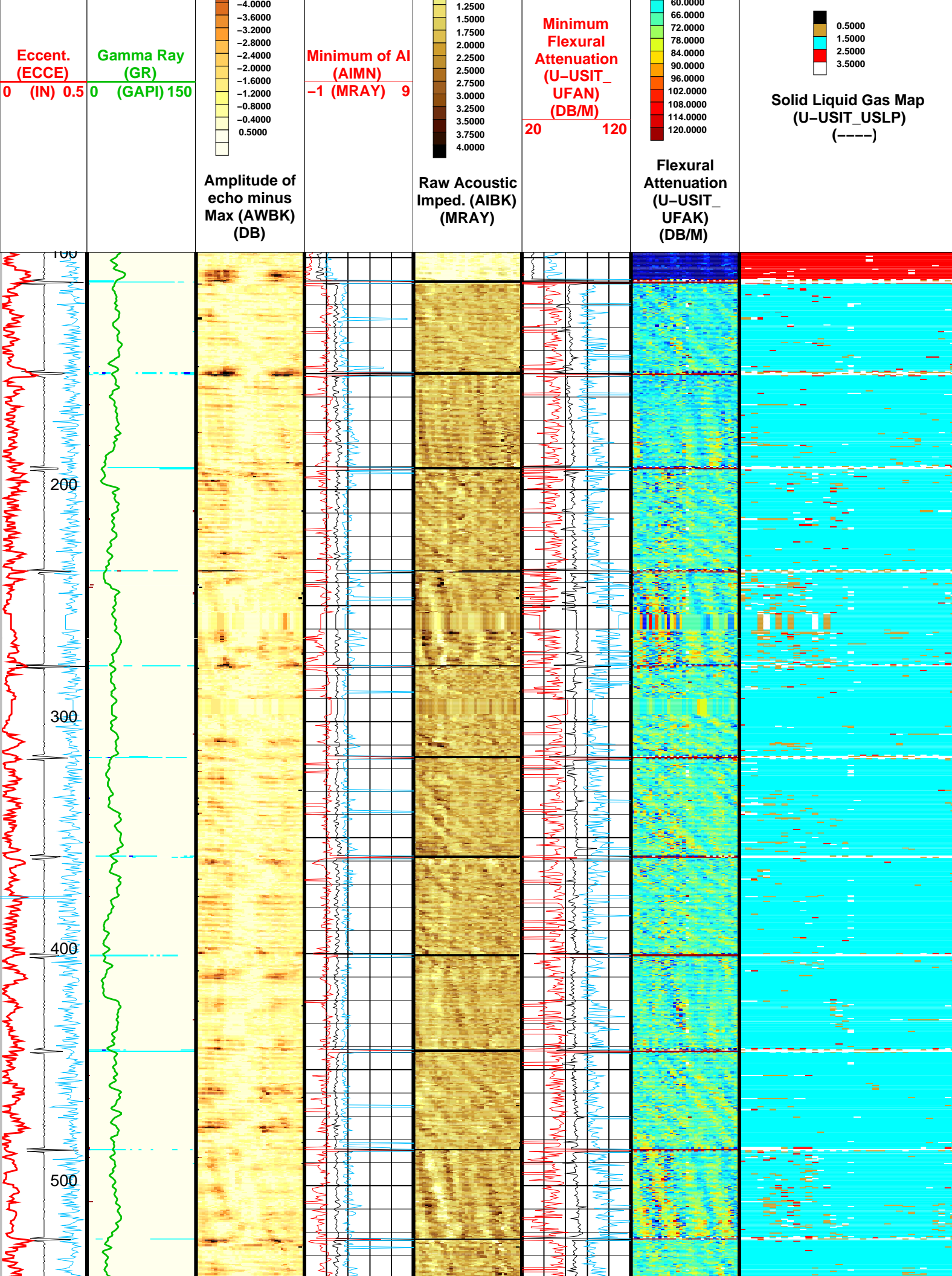
DTC-H

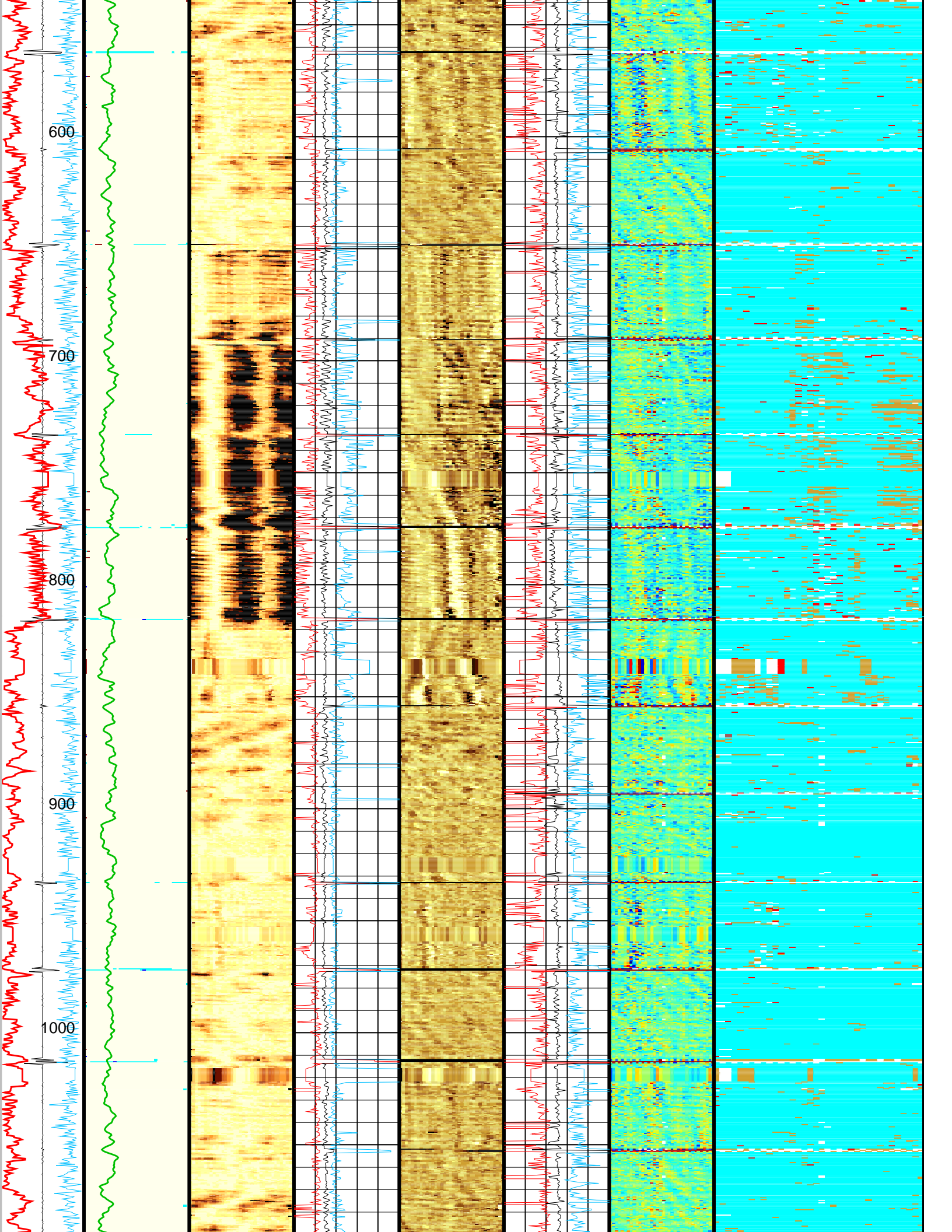
19C1-222

Zoning of Mud Parameters

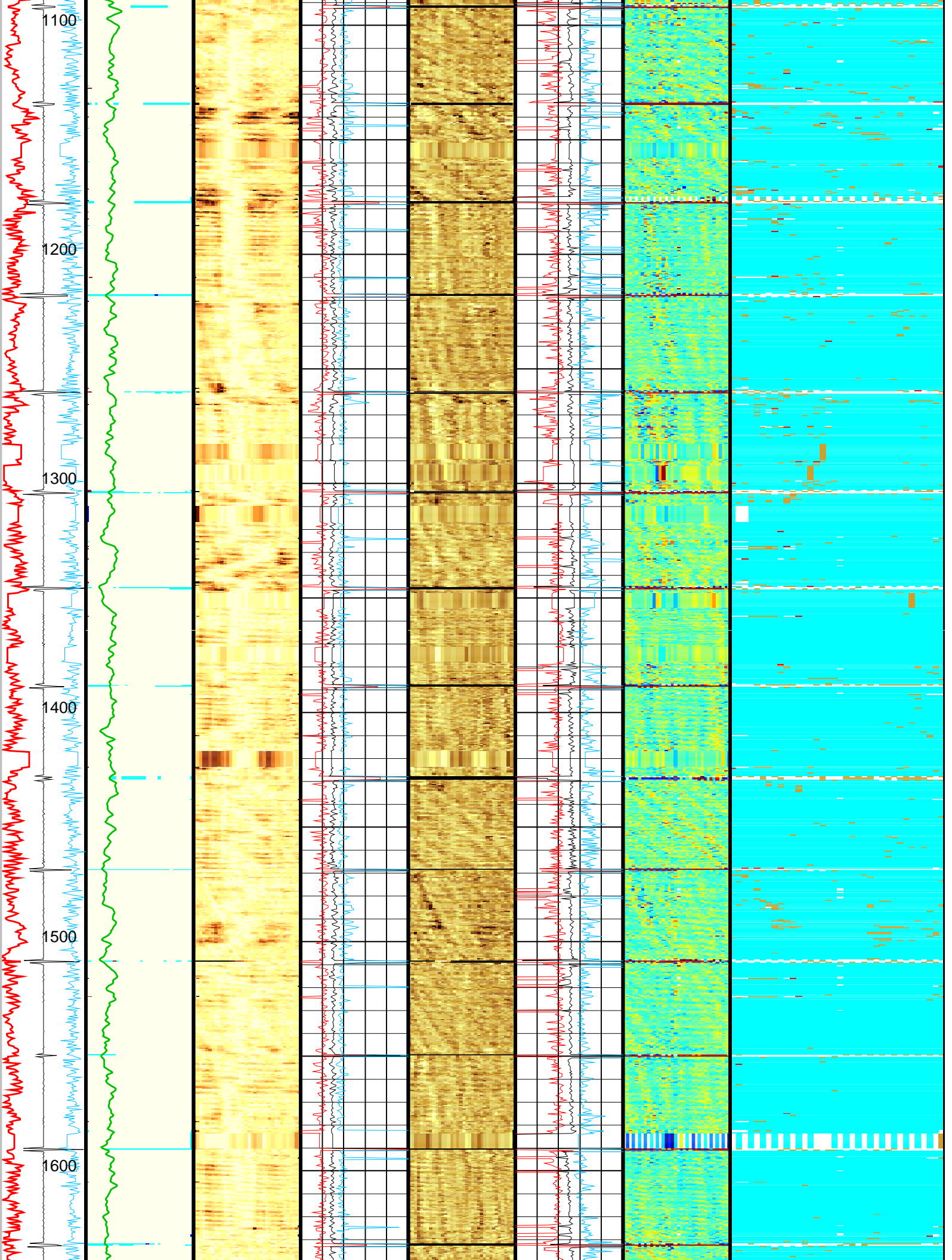
Depth	Fluid Velocity (DFVL)	Acoustic Impedance (ZMUD)
8000.00	193.54	1.98
7000.00	193.45	1.98
6000.00	193.87	1.98
5000.00	194.80	1.97
4000.00	196.24	1.96
3000.00	198.24	1.94
2000.00	200.80	1.91
1000.00	203.99	1.88



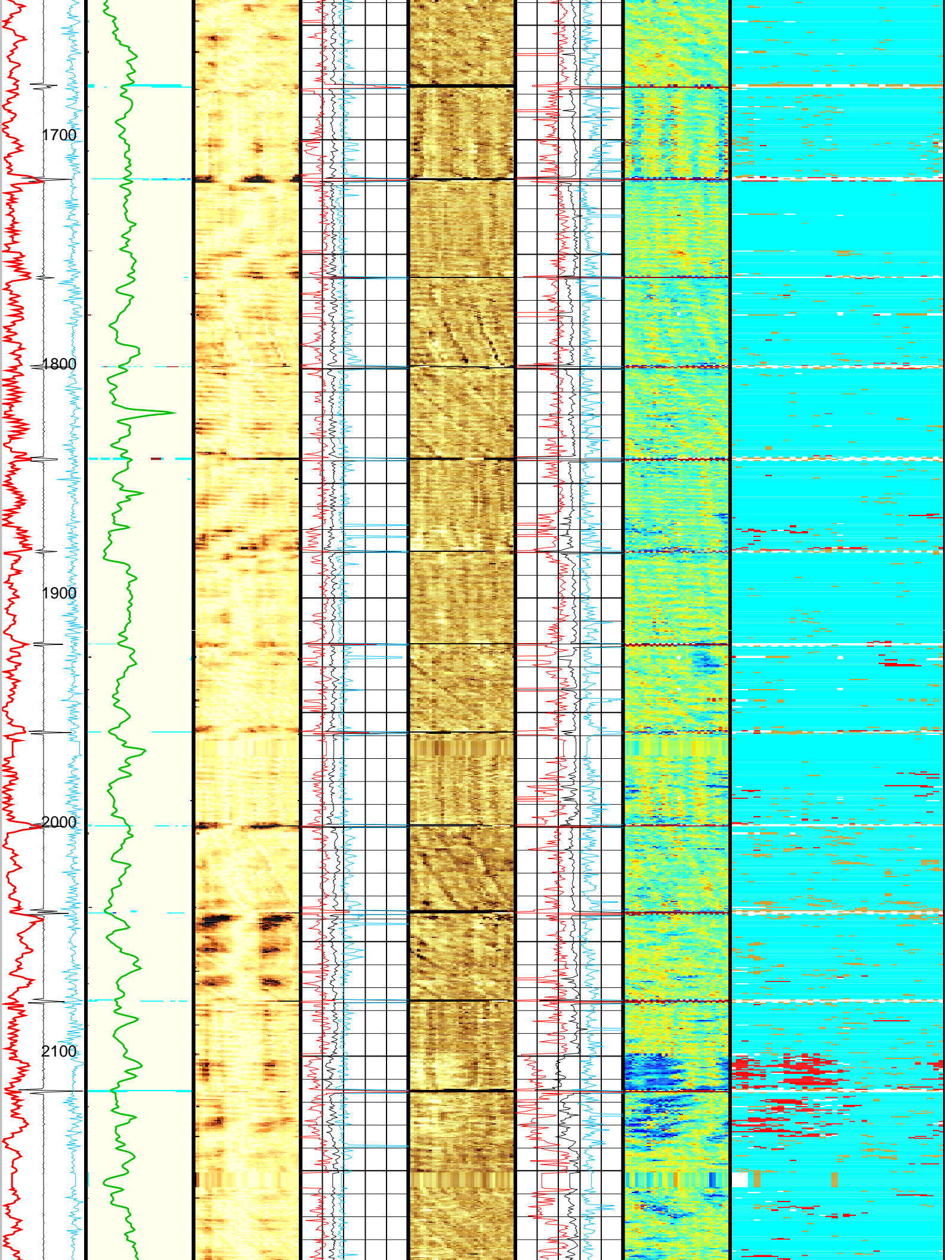


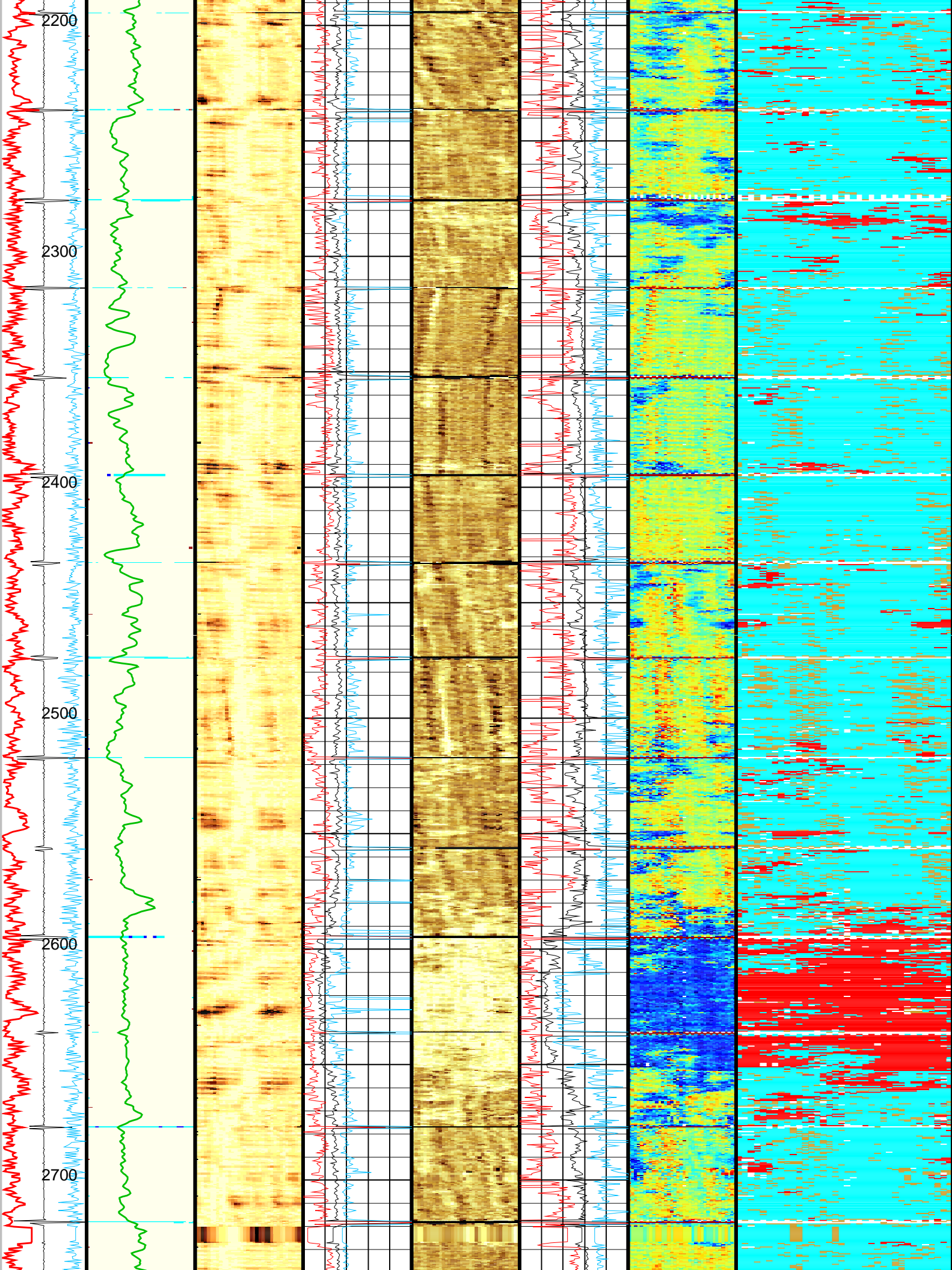




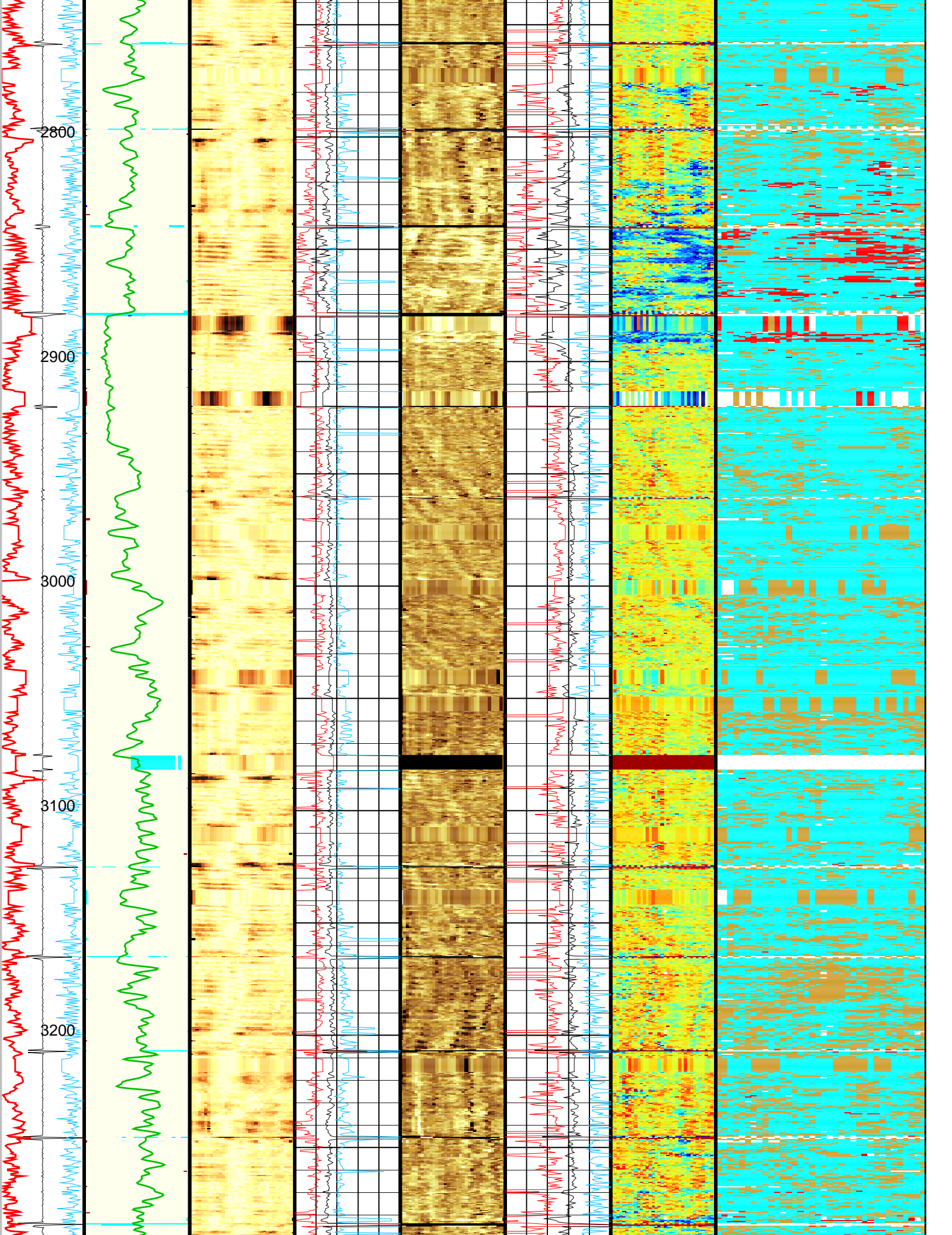


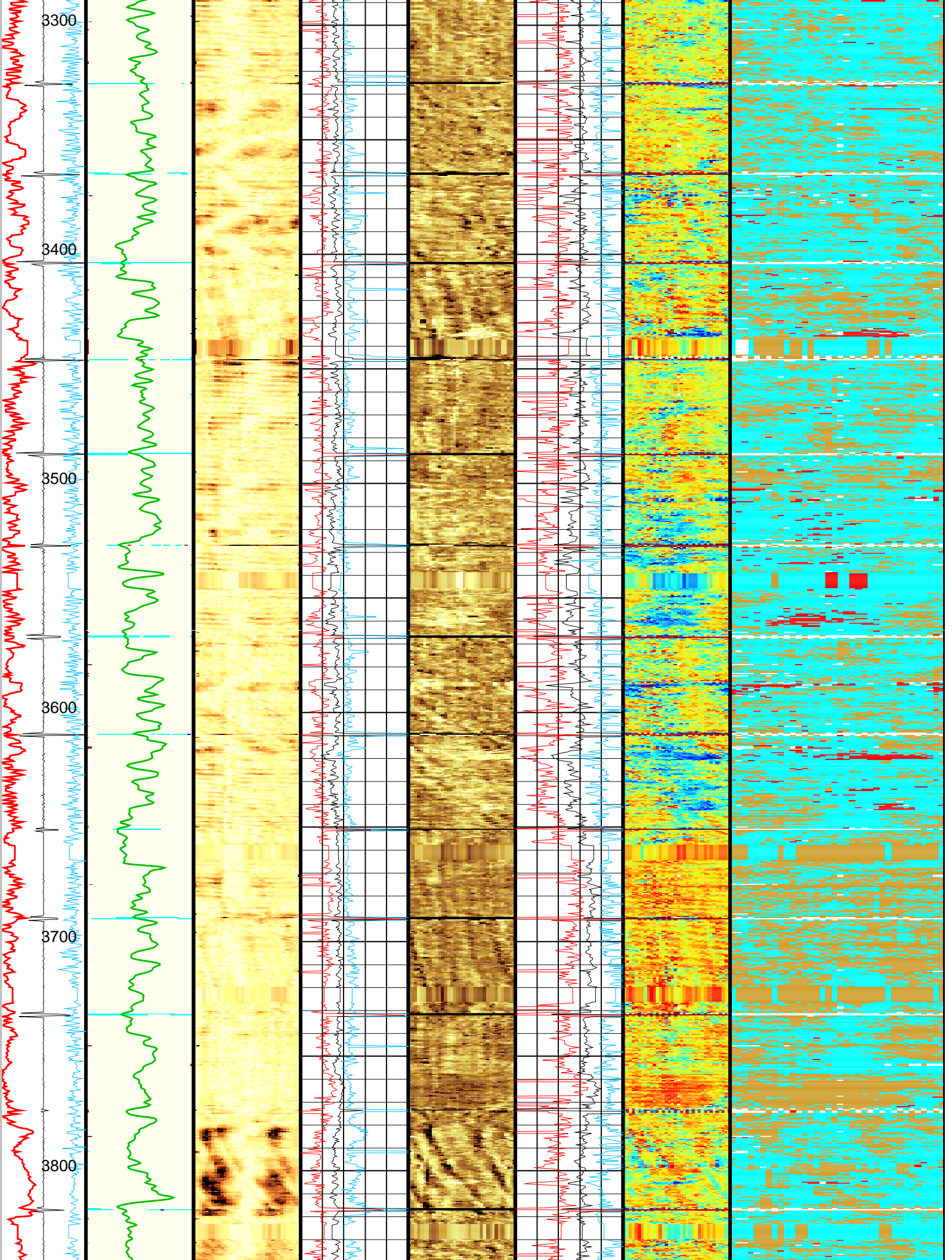




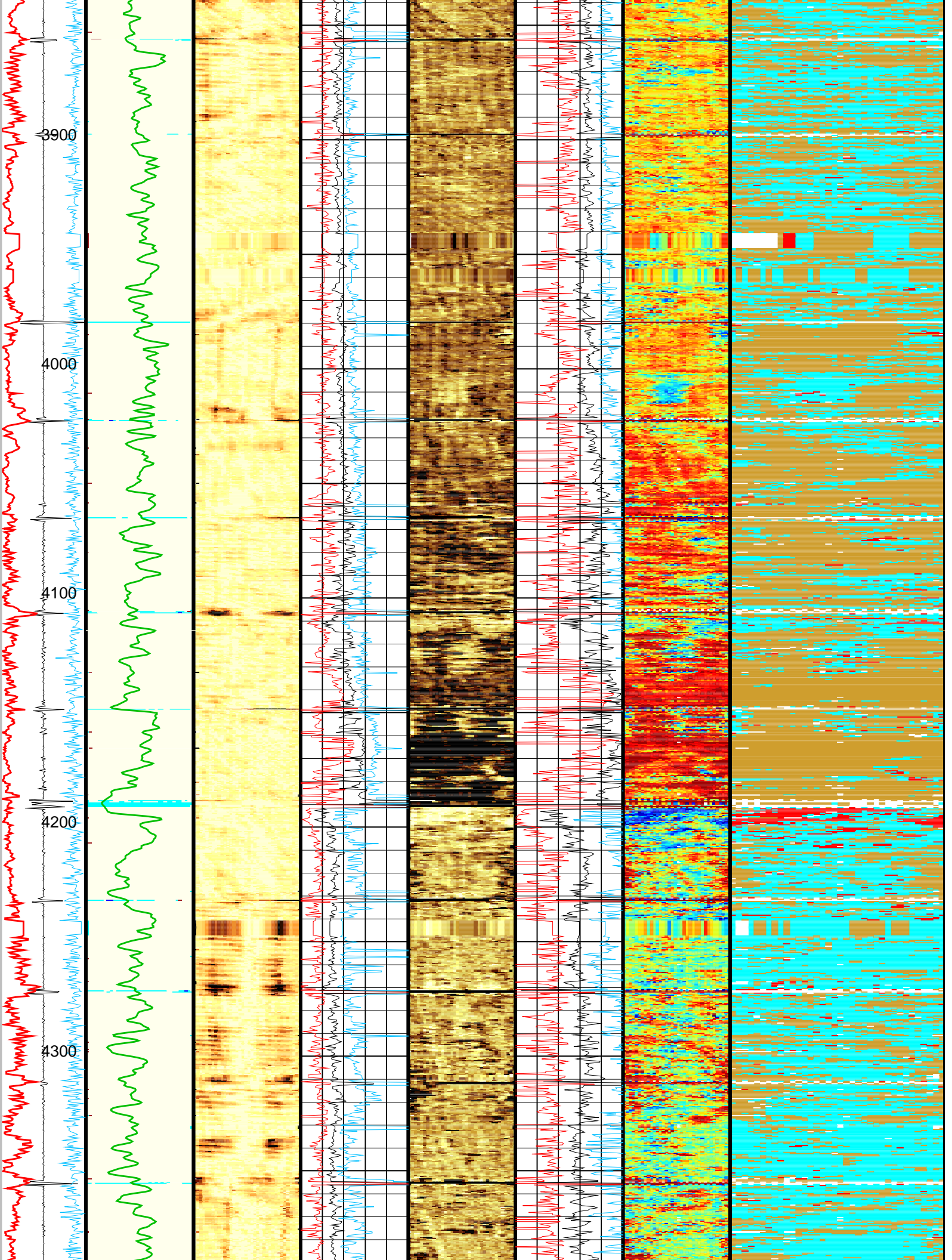




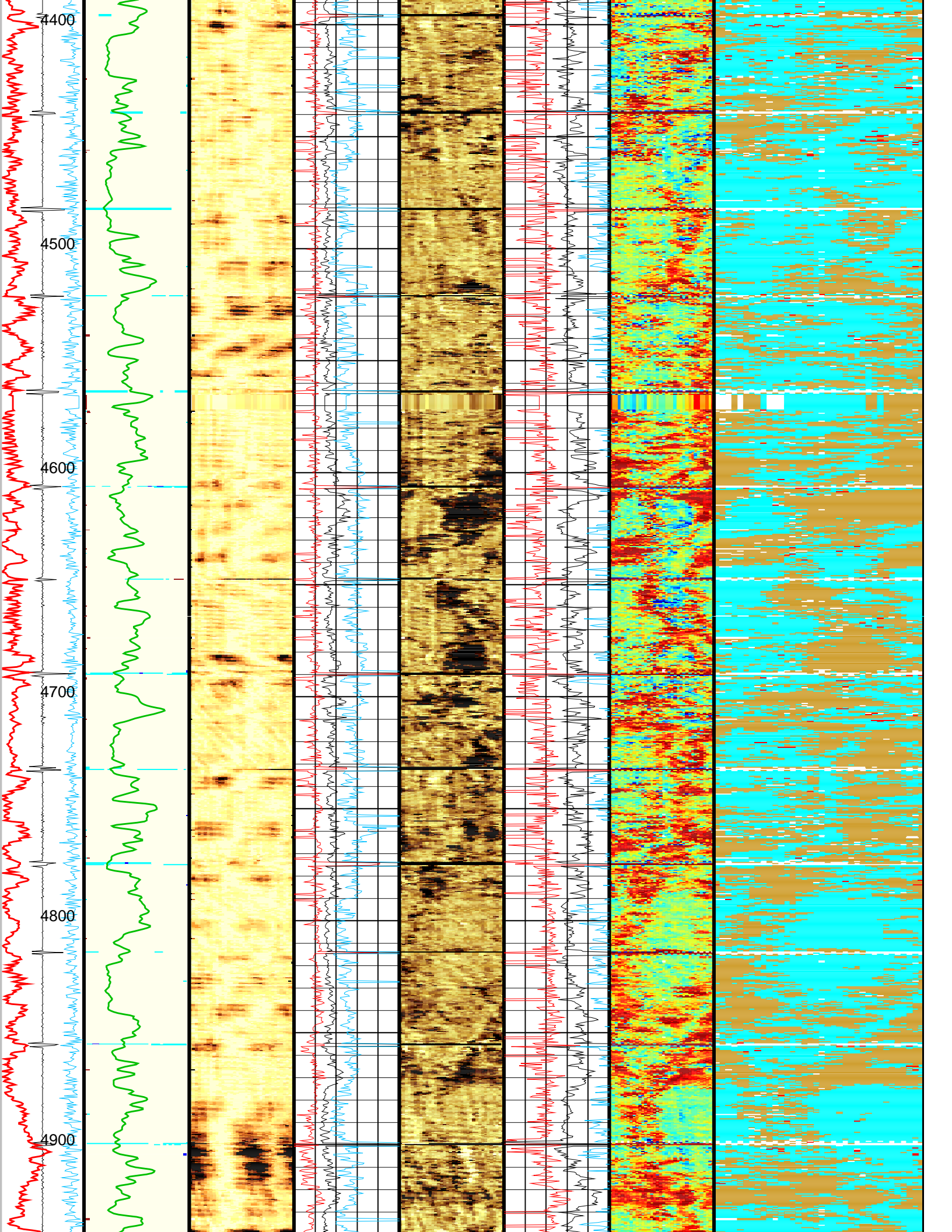




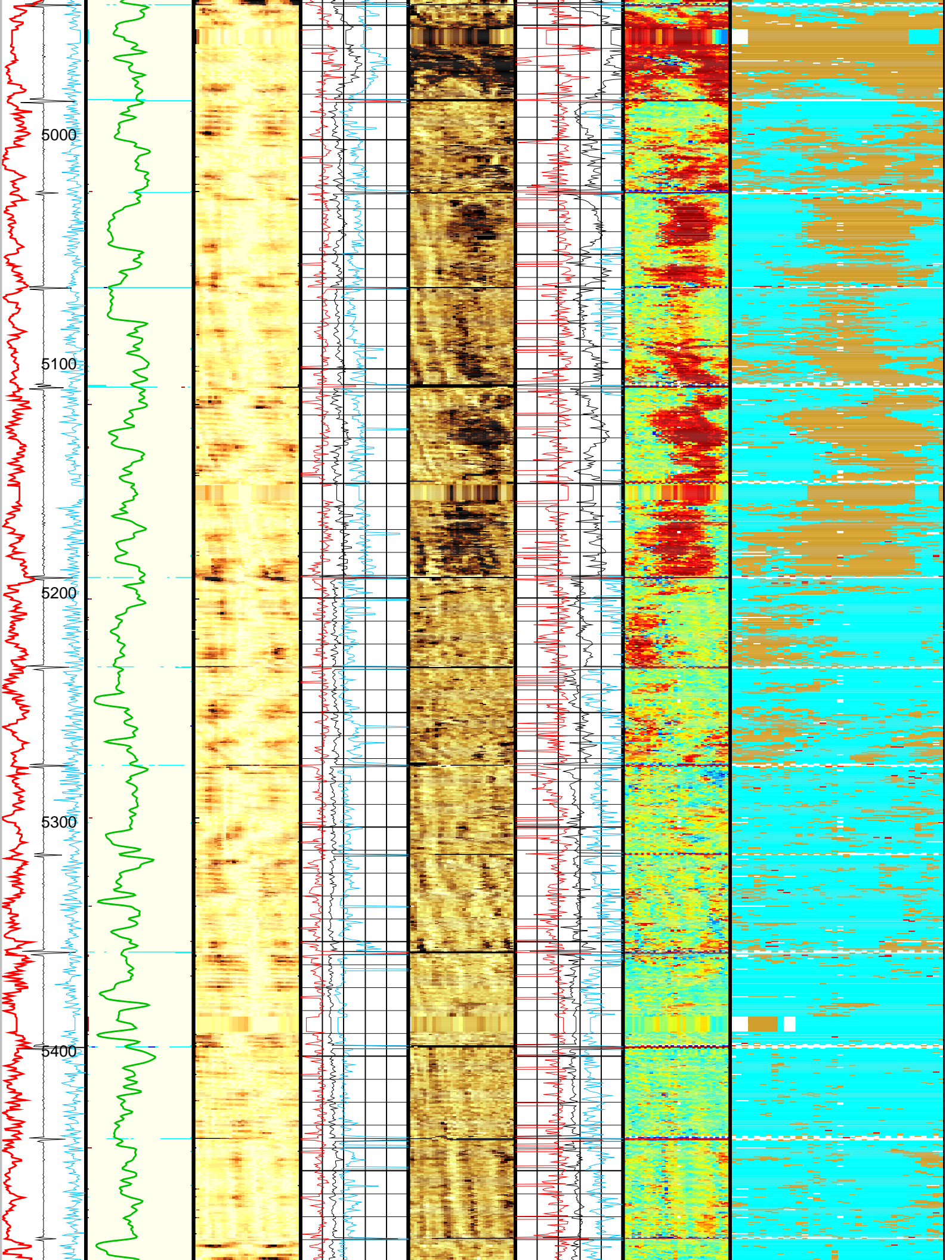


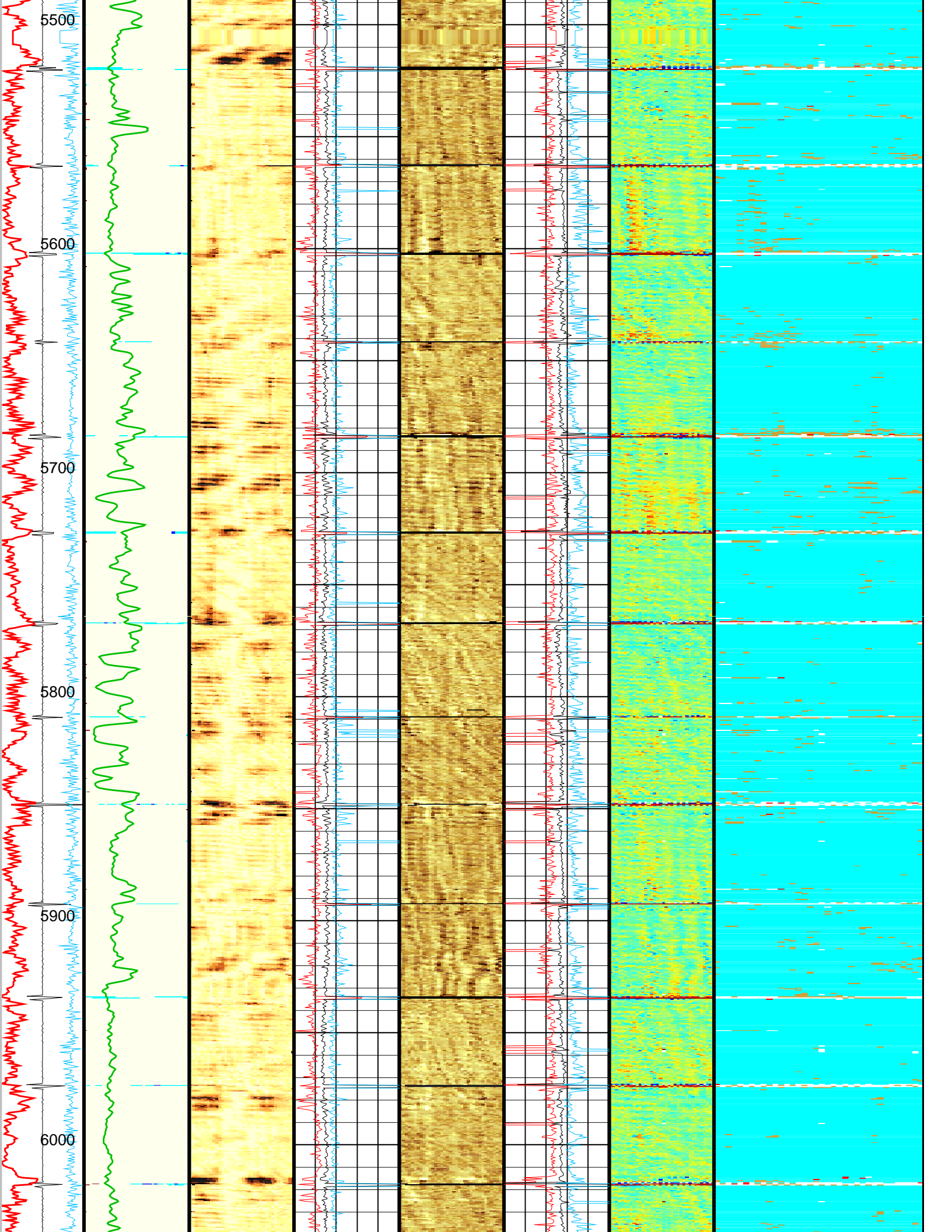




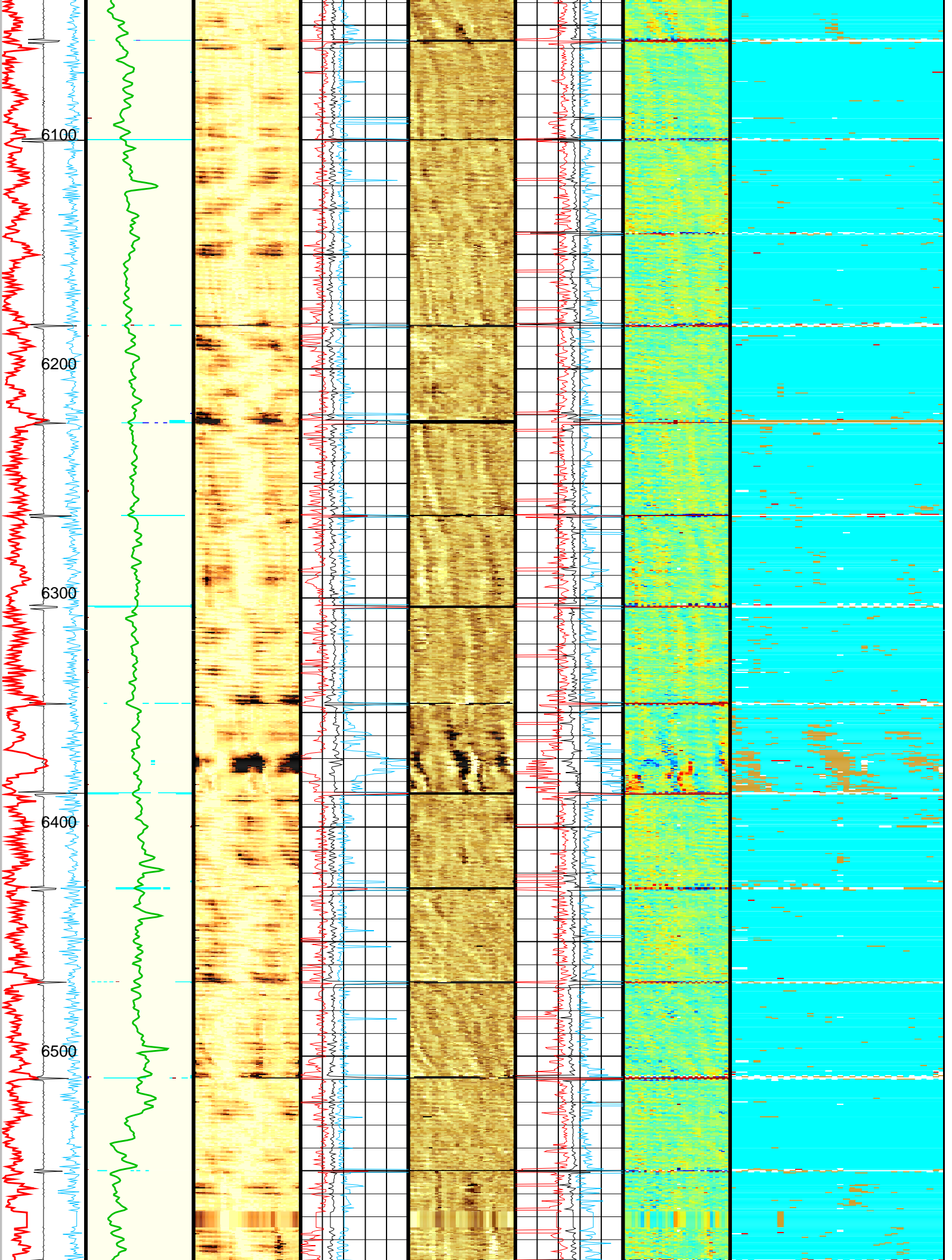


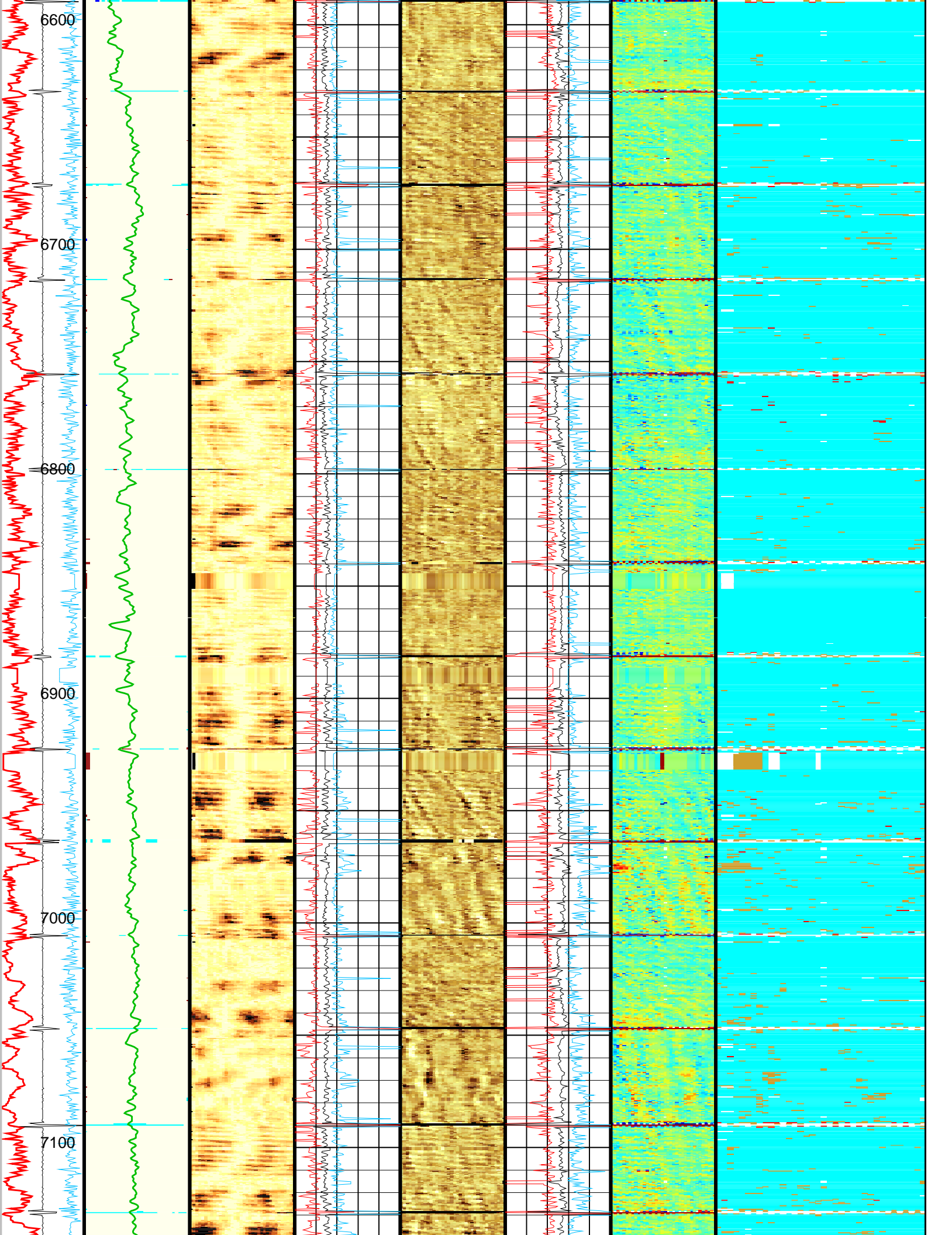




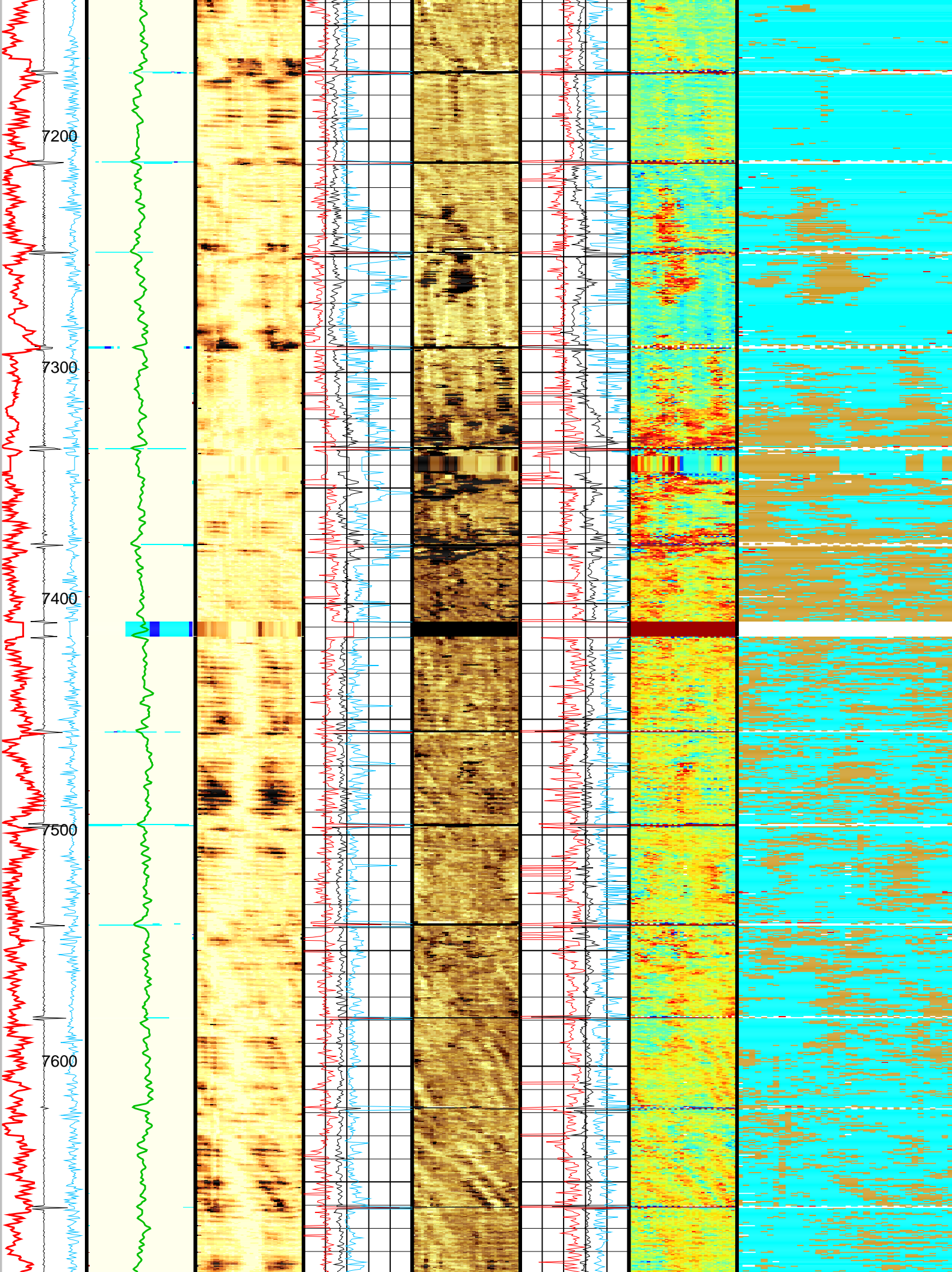


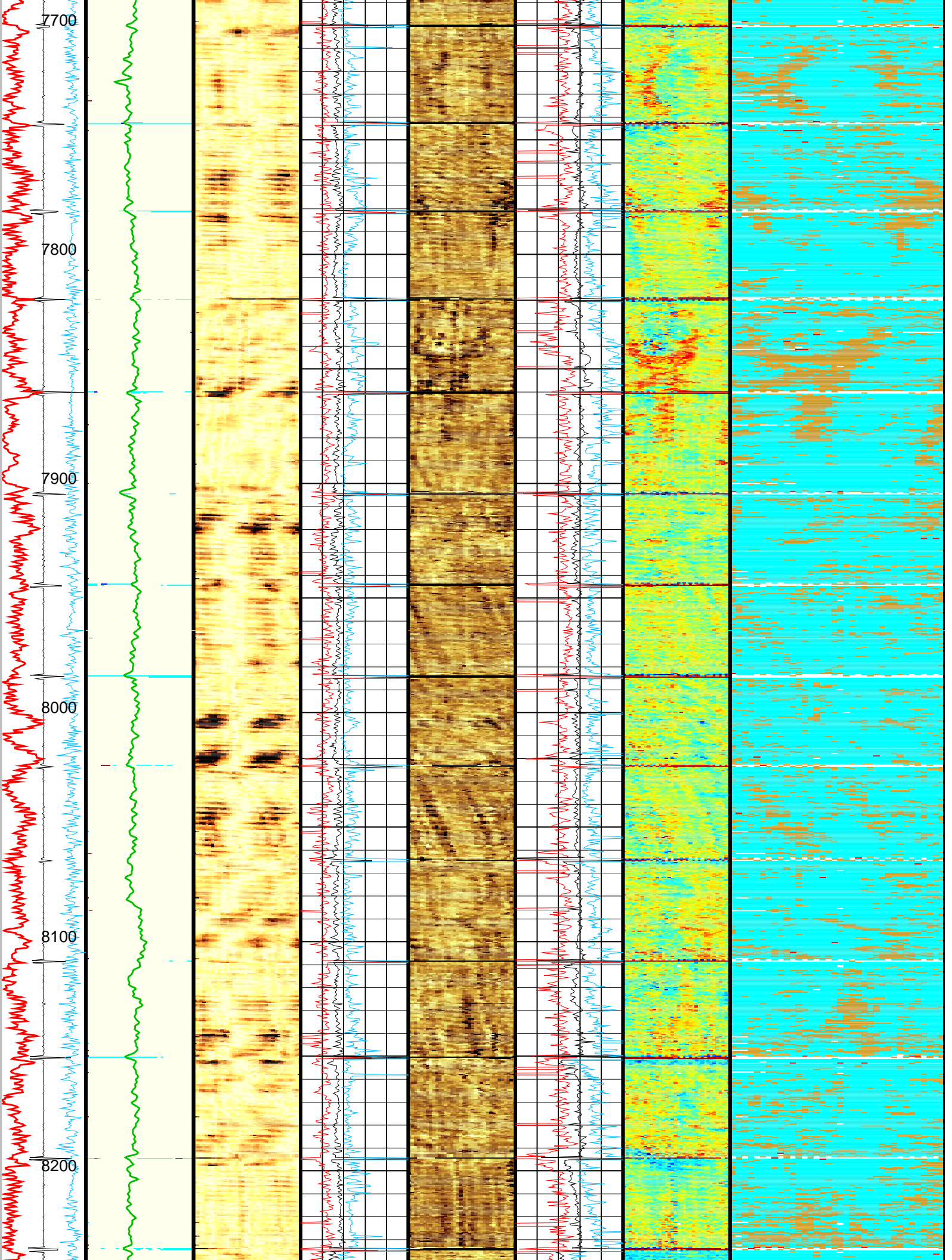




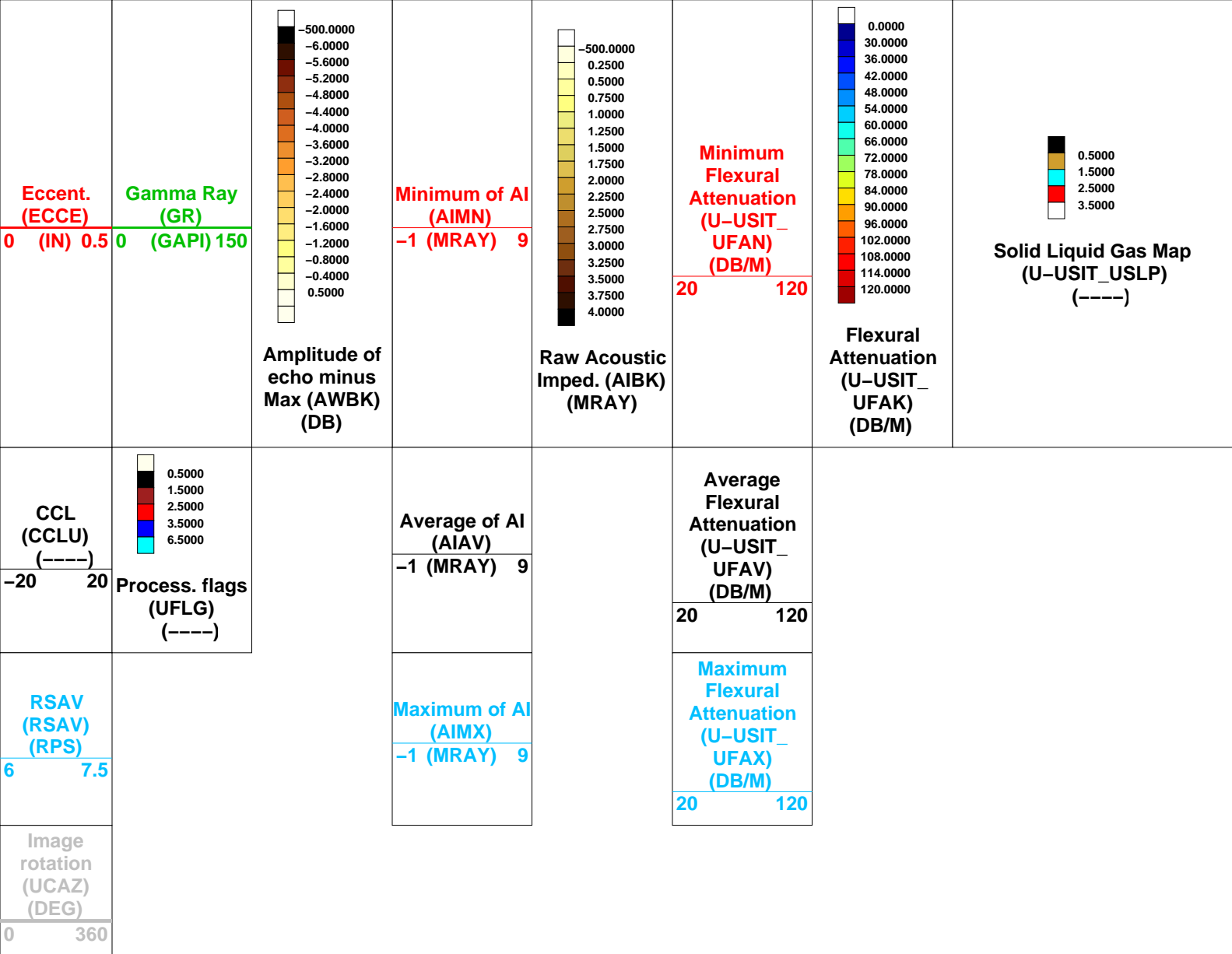
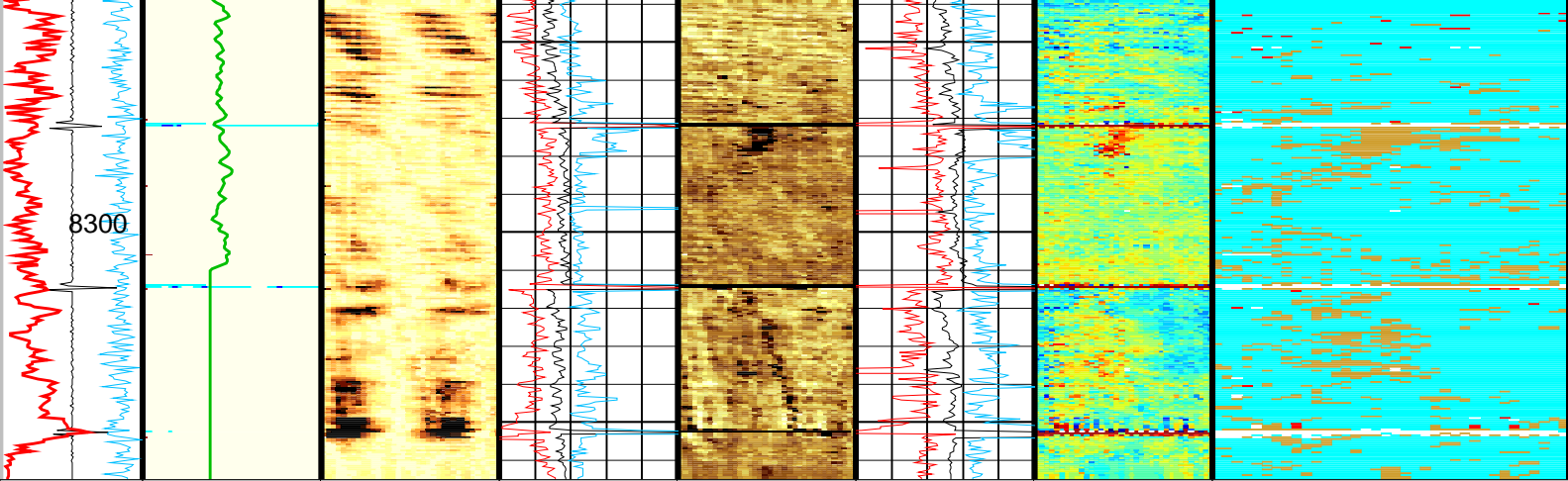












Format: 2 inch IBC SLG      Vertical Scale: 2" per 100'      Graphics File Created: 17-Sep-2013 21:33

**OP System Version: 19C1-222**

USIT-D	19C1-222	DSLT-FTB	19C1-222
SGT-N	19C1-222	DTC-H	19C1-222

All USI Images are outside views

USI : LOW Frequency Compression Mode Used For Logging.

Recommended casing thickness range for optimum cement impedance measurement : 0.27 to 0.6 IN.

## Parameters

DLIS Name	Description	Value	
USIT-D: Ultrasonic Imaging – D			
AGMN	Minimum Gain of Cartridge	–4	DB
AGMX	Maximum Gain of Cartridge	20	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	7.625	IN
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	6.969	IN
DFVL	Default Fluid Velocity	206	US/F
DOT	Diameter of Transducer Sensor	1.756	IN
EMXV	EMEX Voltage	90	V
FDII	FPM Data Interpolation Interval	0	FT
IMAR	Image Rotation	OFF	
MW	Mud Weight	10.4	LB/G
RCOD	Reference Calibrator Outer Diameter	4.5	IN
RCSO	Reference Calibrator Standoff	0.8425	IN
RCTH	Reference Calibrator Thickness	0.2165	IN
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	150	
THDL	Minimum Search Thickness (percentage of nominal)	70	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.328	IN
U-USIT_CEMT	USIT Cement Type	LIGHT	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	0	MRAY
U-USIT_IISR	USIT IBC Inverted Fluid Slowness Resolution	1.0_US_P_FT	
U-USIT_IIZR	USIT IBC Inverted ZMUD Resolution	0.050_MRAY	
U-USIT_OCDI	USIT Outer Casing Diameter	0	IN
U-USIT_OCSH	USIT Outer Casing Shoe	0	FT
U-USIT_OCWE	USIT Outer Casing Weight	0	LB/F
U-USIT_TIEB	IBC Third Interface Echo Bin Processing	YES	
U-USIT_TIEC	IBC Third Interface Echo Cleaning	NONE	
U-USIT_TIEM	IBC Third Interface Echo Multi Tracking	NO	
U-USIT_TIEP	IBC Third Interface Echo Policy	BFEP	
U-USIT_TIER	IBC Third Interface Echo Receivers	BOTH	
U-USIT_U3WE	Third Interface Echo Window End	110	US
U-USIT_UBTP	USIT Bottom Transducer Position	UNKNOWN	
U-USIT_UFAO	USIT Flexural Attenuation Offset	–5	DB/M
U-USIT_UIAP	USIT IBC Answer Product Enabled	SolidLiquidGasMap	
U-USIT_UIST	Ultrasonic IBC Sonde Type	Sub_ibcs_A	
U-USIT_UTAN	USIT Transducer Angles	38_DEG	
UMAO	USIT Measurement Angular Offset	–10	DEG
USTO	Ultrasonic Time Offset	–2	US
USUB	Ultrasonic Subassembly Identifier	Sub_5_inch	
UWKM	Ultrasonic Working Mode	10DEG_6IN_136UNF_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	19.6689	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	–1	MRAY
ZMUD	Acoustic Impedance of Mud	1.95	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
System and Miscellaneous			
BS	Bit Size	9.875	IN
CWEI	Casing Weight	26.40	LB/F
DO	Depth Offset for Playback	–2.0	FT
PP	Playback Processing	NORMAL	

## Input DLIS Files

DEFAULT	USI_SONIC_023PUP	FN:38	PRODUCER	17-Sep-2013 21:11	8367.0 FT	99.5 FT
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## Output DLIS Files

DEFAULT	USI_SONIC_024PUP	FN:40	PRODUCER	17-Sep-2013 21:33
RTB	USI_SONIC_024PUP	FN:41	PRODUCER	17-Sep-2013 21:27