

Company: EXXONMOBIL PRODUCTION CO

Well: PCU 197-34B10

Field: PICEANCE CREEK

County: RIO BLANCO

State: COLORADO

IMAGING BEHIND CASING ULTRASONIC TOOL GAMMA RAY / CCL		SESE, 788' FSL & 963' FEL		Elev.: K.B. 6681.40 ft G.L. 6651.20 ft D.F. 6680.40 ft		
		LOCATION				
		Permanent Datum: _____		GROUND LEVEL _____		Elev.: 6651.20 ft _____
		Log Measured From: _____		KELLY BUSHING _____		30.20 ft above Perm. Datum
Drilling Measured From: _____		KELLY BUSHING _____				
County: RIO BLANCO		Field: PICEANCE CREEK		Location: SESE, 788' FSL & 963' FEL		
Well: PCU 197-34B10		Company: EXXONMOBIL PRODUCTION CO				
Logging Date		10-Nov-2009				
Run Number		1				
Depth Driller		9005 ft				
Schlumberger Depth		8500 ft				
Bottom Log Interval		8500 ft				
Top Log Interval		3300 ft				
Casing Fluid Type		WBM				
Salinity		400 ppm				
Density		9.4 lbm/gal				
Fluid Level		10 ft				
BIT/CASING/TUBING STRING						
Bit Size		9.875 in				
From		3900 ft				
To		9005 ft				
Casing/Tubing Size		7.000 in				
Weight		26 lbm/ft				
Grade						
From		30.2 ft				
To		9005 ft				
Maximum Recorded Temperatures		199 degF				
Logger On Bottom		10-Nov-2009		22.45		
Unit Number		2379		VERNAL		
Recorded By		Ryan Stewart				
Witnessed By		Robert Kemper				

PVT DATA												
Oil Density	Run 1			Run 2			Run 3			Run 4		
Water Salinity	400 ppm											
Gas Gravity												
Bo												
Bw												
1/Bg												
Bubble Point Pressure												
Bubble Point Temperature												
Solution GOR												
Maximum Deviation	15.7 deg											
CEMENTING DATA												
Primary/Squeeze	Primary											
Casing String No												
Lead Cement Type												
Volume												
Density	10.5 lbm/gal											
Water Loss												
Additives												
Tail Cement Type												
Volume												
Density	12 lbm/gal											
Water Loss												
Additives												
Expected Cement Top	4000 ft											
Logging Date												
Run Number												
Depth Driller												
Schlumberger Depth												
Bottom Log Interval												
Top Log Interval												
Casing Fluid Type												
Salinity												
Density												
Fluid Level												
BIT/CASING/TUBING STRING												
Bit Size												
From												
To												
Casing/Tubing Size												
Weight												
Grade												
From												
To												
Maximum Recorded Temperatures												
Logger On Bottom												
Unit Number	Location											
Recorded By												
Witnessed By												

DEPTH SUMMARY LISTING

Date Created: 11-NOV-2009 4:03:52

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-46V XS
Serial Number:	6195	Serial Number:	8093	Serial Number:	709025
Calibration Date:	22-OCT-2009	Calibration Date:	07-Nov-2005	Length:	30100 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	1	Conveyance Method: Wireline Rig Type: LAND	
Calibration Cable Type:	7-46P	Number of Calibration Points:	9		
Wheel Correction 1:	-13	Calibration RMS:	65		
Wheel Correction 2:	-11	Calibration Peak Error:	106		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	236.60 FT
Rig Up Length At Bottom:	236.10 FT
Rig Up Length Correction:	0.50 FT
Stretch Correction:	9.50 FT
Tool Zero Check At Surface:	0.40 FT

Depth Control Remarks

1. All Schlumberger depth control policies followed
2. IDW used as primary depth reference, z-chart used as secondary reference
- 3.
- 4.
- 5.
- 6.

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: None

OS2:

OS3:

OS4:

OS5:

OTHER SERVICES2

OS1:

OS2:

OS3:

OS4:

OS5:

REMARKS: RUN NUMBER 1

REMARKS: RUN NUMBER 2

Tool run as per tool sketch

Tool run with 2 x gemcos and 2 x in-line centralizers

Neutron run for gamma ray purpose only

Transducer angle = 33 degrees

Data spliced at 6690 ft

Vertical resolution = 6 inch

Horizontal resolution = 5 degree

UFAO = -14

Max temp = 199 degF

IBC log stopped at 3300 ft at clients request

RUN 1

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

17C0-154
10 ft

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL

START

STOP

LOGGED INTERVAL

START

STOP

EQUIPMENT DESCRIPTION

RUN 1

RUN 2

SURFACE EQUIPMENT

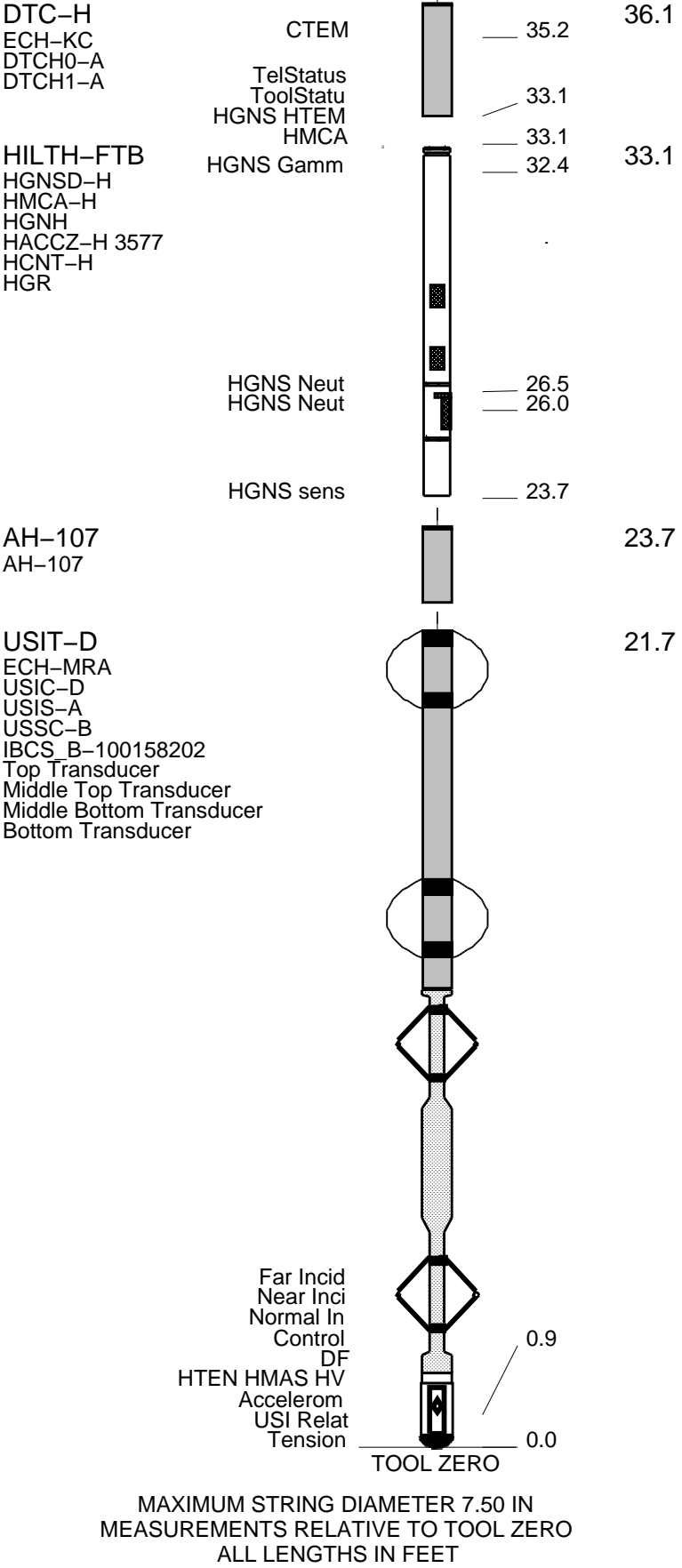
GSR-U/Y
NCT-B
CNB-AB
WITM (DTS)-A

DOWNHOLE EQUIPMENT

LEH-QT
LEH-QT



39.0



Client: EXXONMOBIL PRODUCTION CO
Well: PCU 197-34B10
Field: PICEANCE CREEK
State: COLORADO
Country: USA

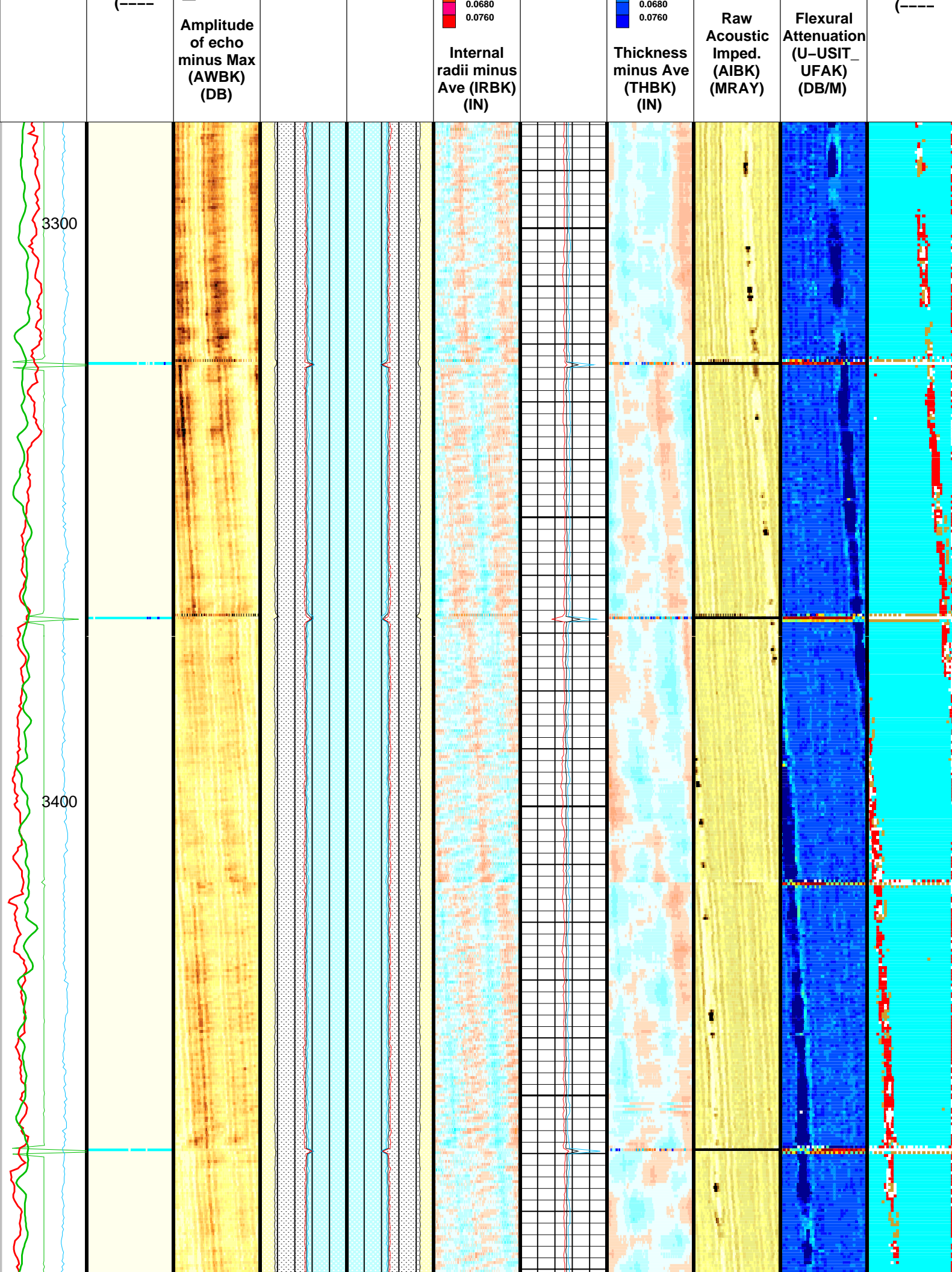
Rig Name: H&P 320
Reference Datum: Kelly Bushing
Elevation: 6681.4 ft

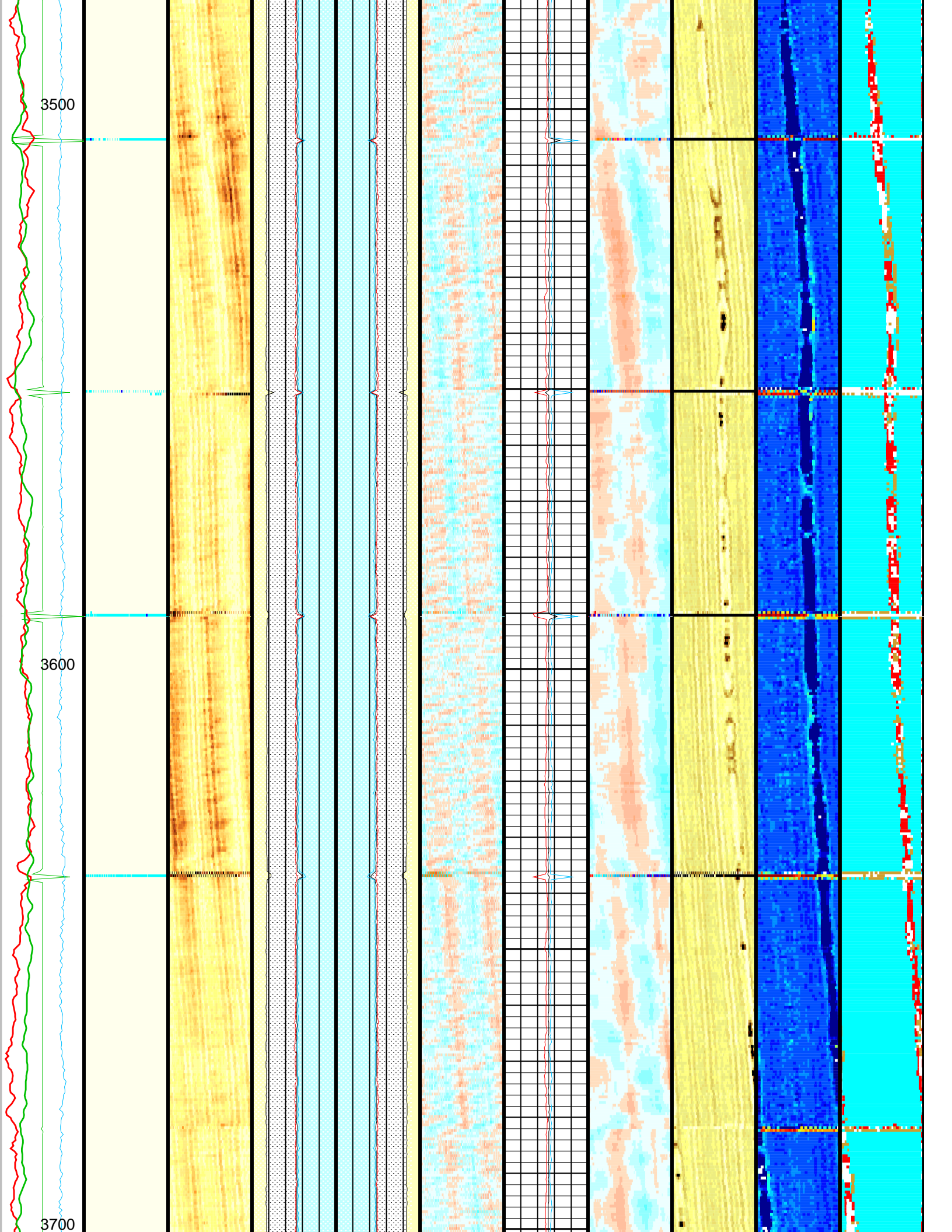
Drawing Date: 11/10/2009
API #: 05-103-11146-00

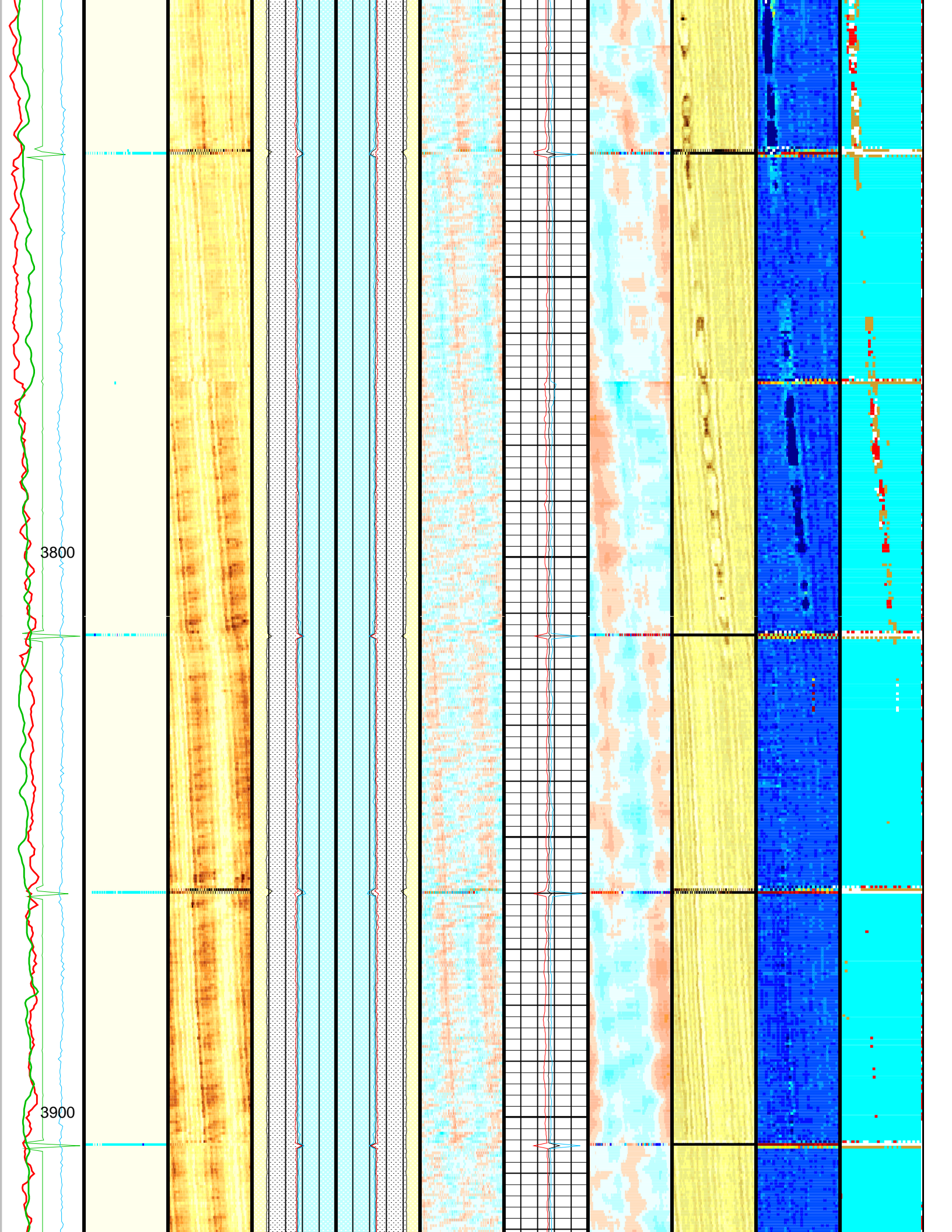
Production String	(in)	(ft)	Well Schematic	(ft)	(in)	Casing String
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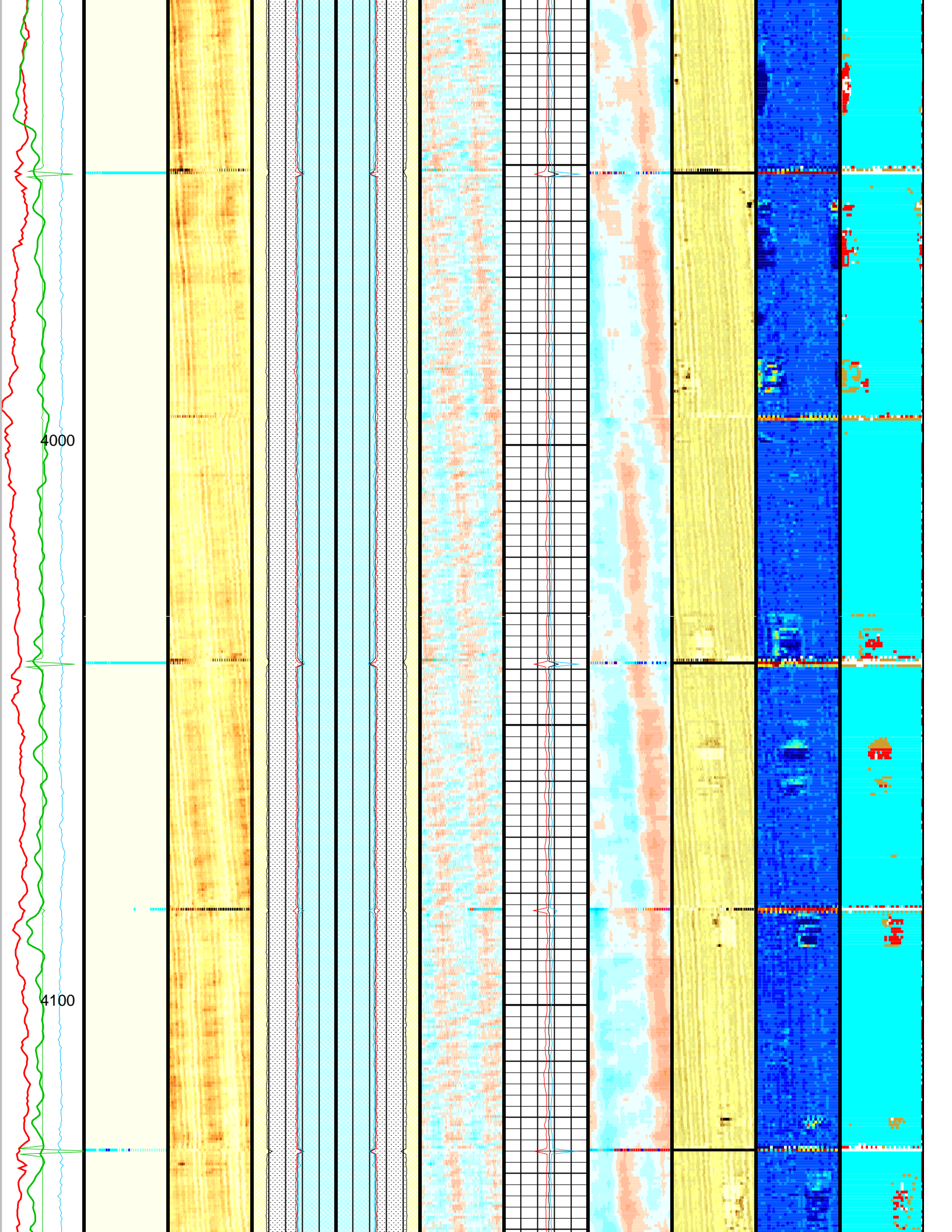
				OD	ID	MD					
								MD	OD	ID	
								30.2	10.750		Surface Casing String
									7.000		Casing String
								3900.0	10.750		Casing Shoe
								3900.0	9.875		Borehole Segment
								9005.0	7.000		Casing Shoe

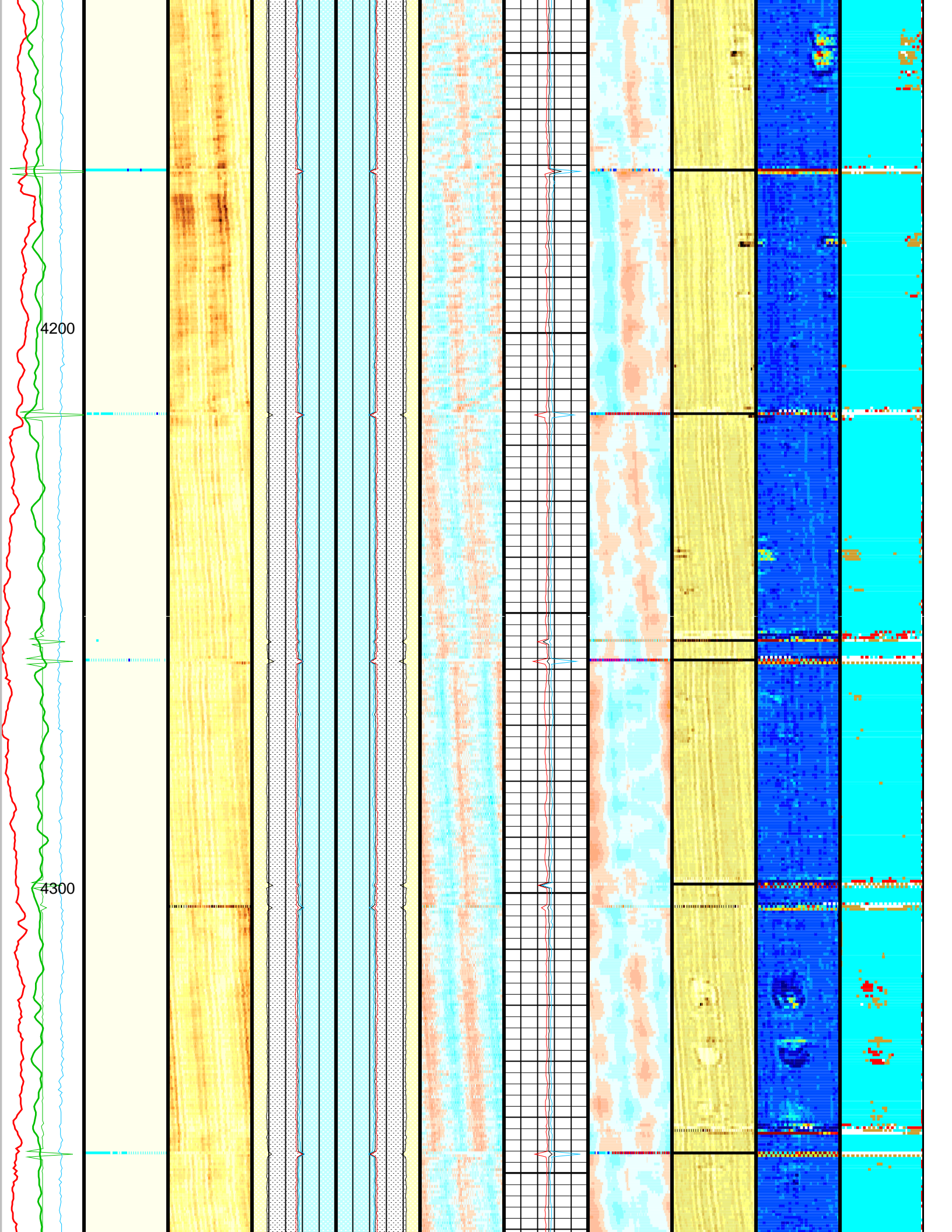
All depths are referenced to driller’s depths

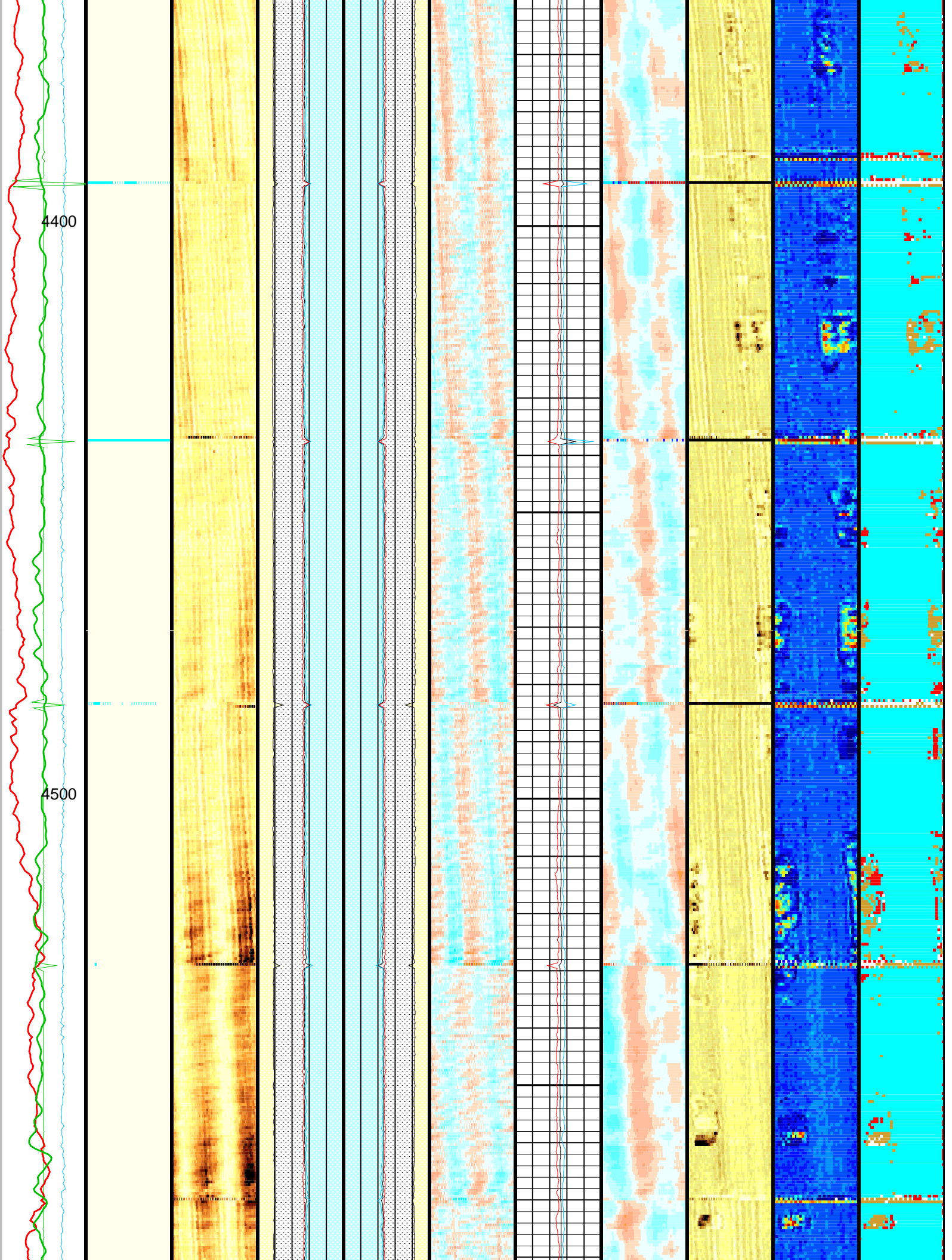


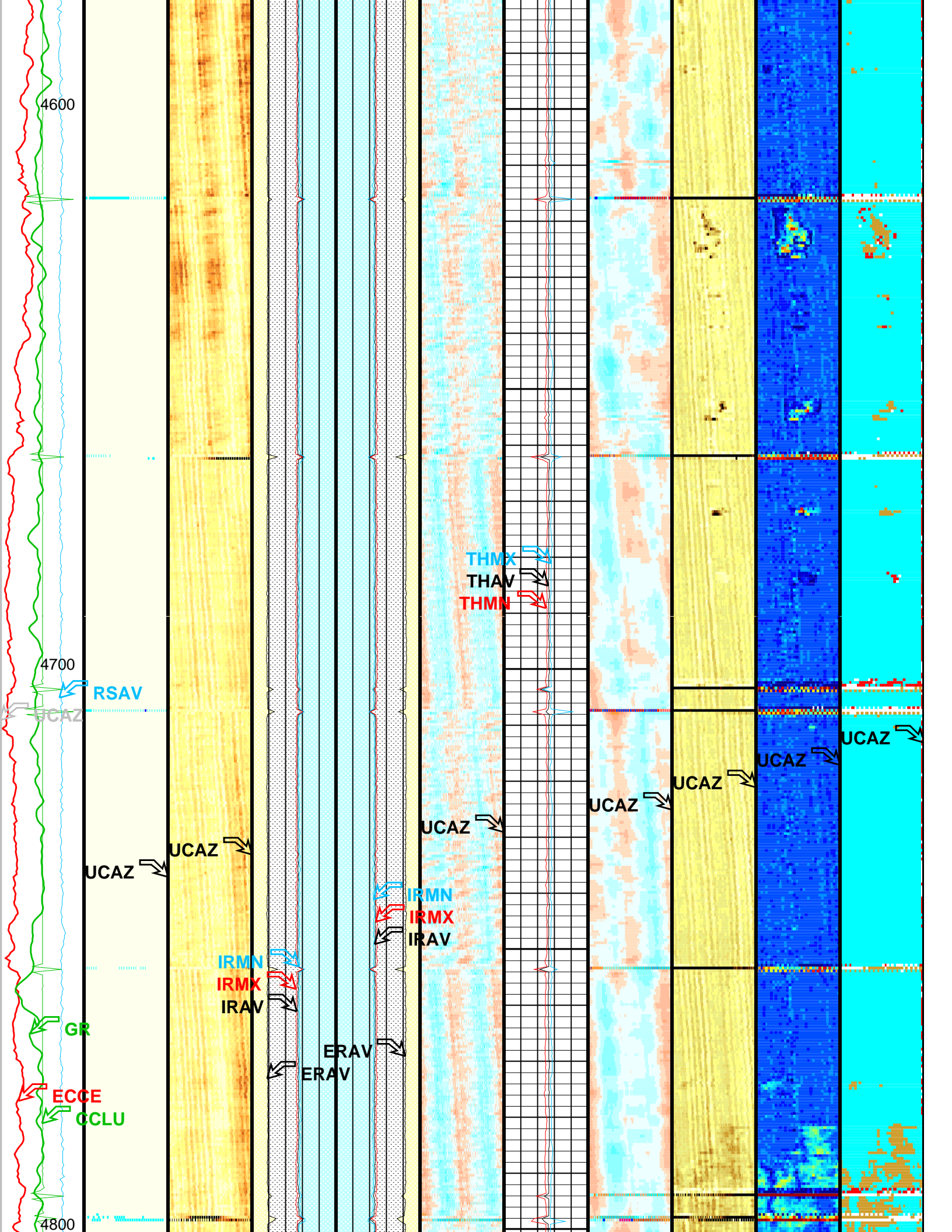


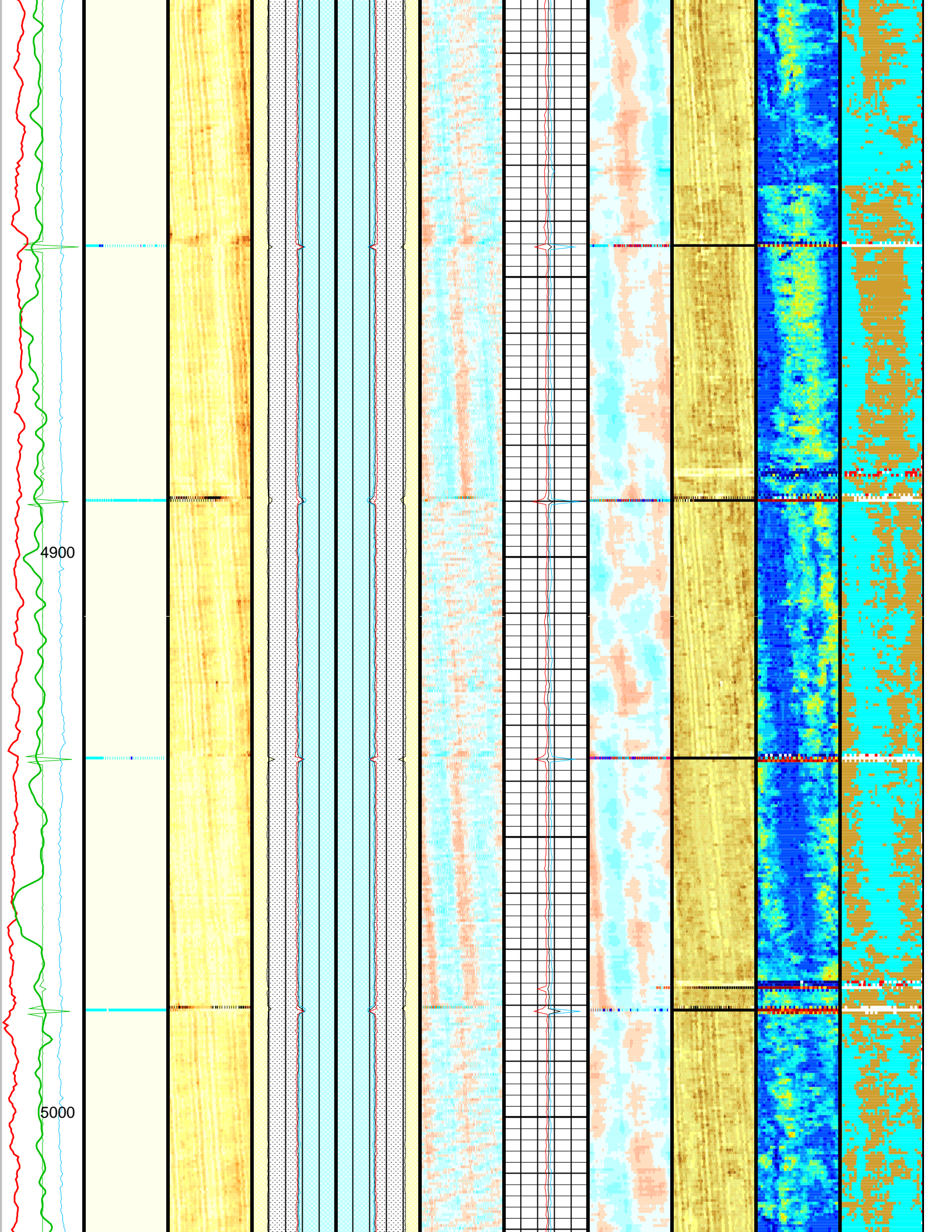


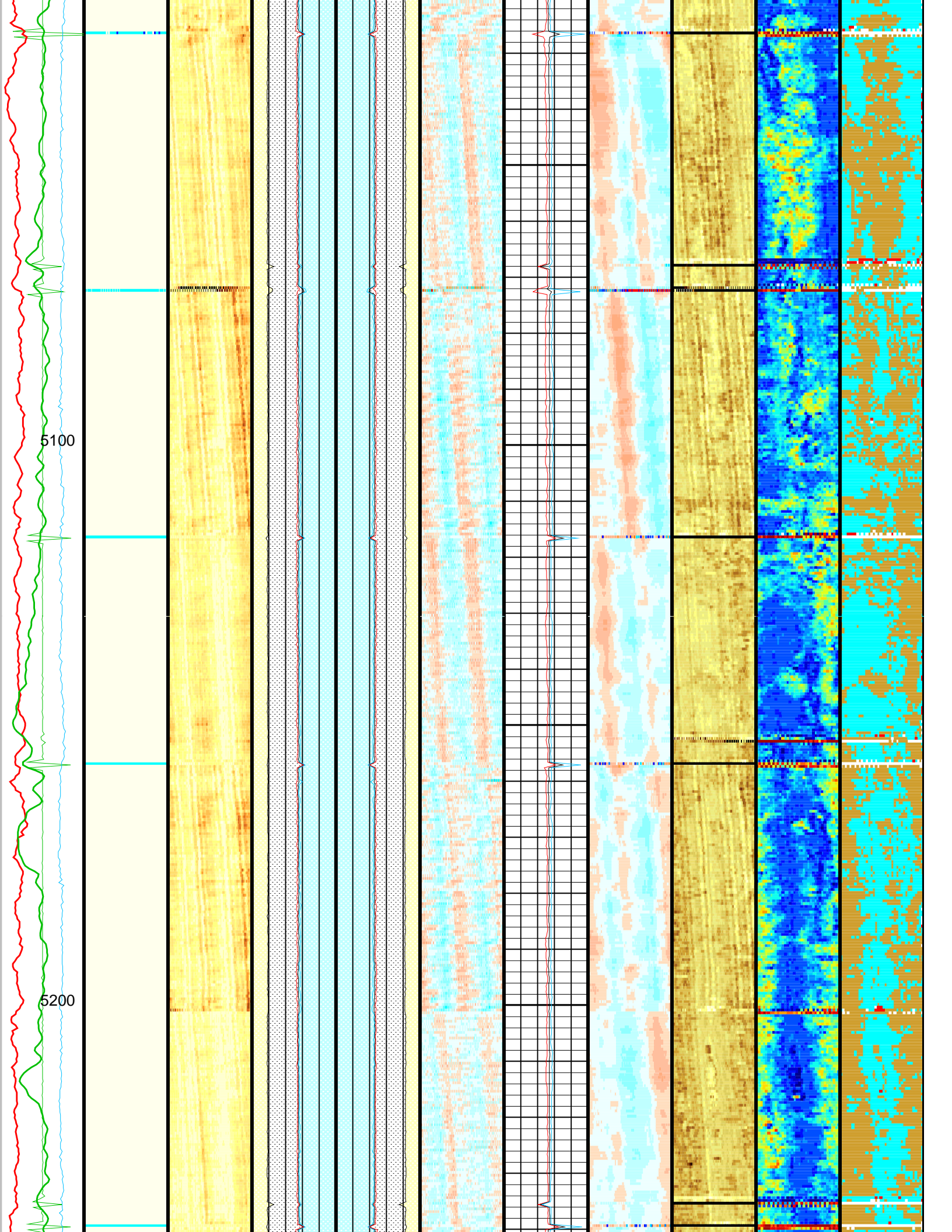


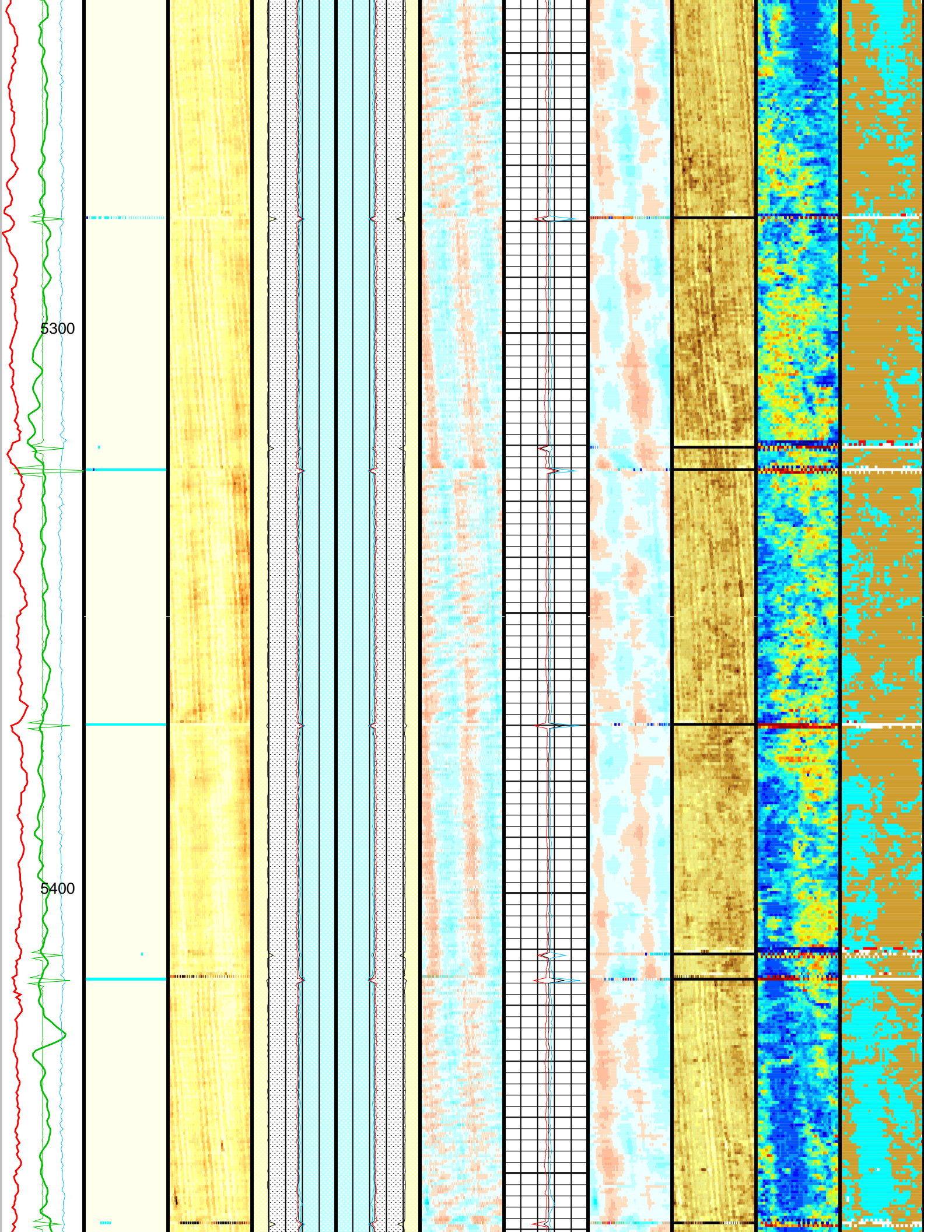


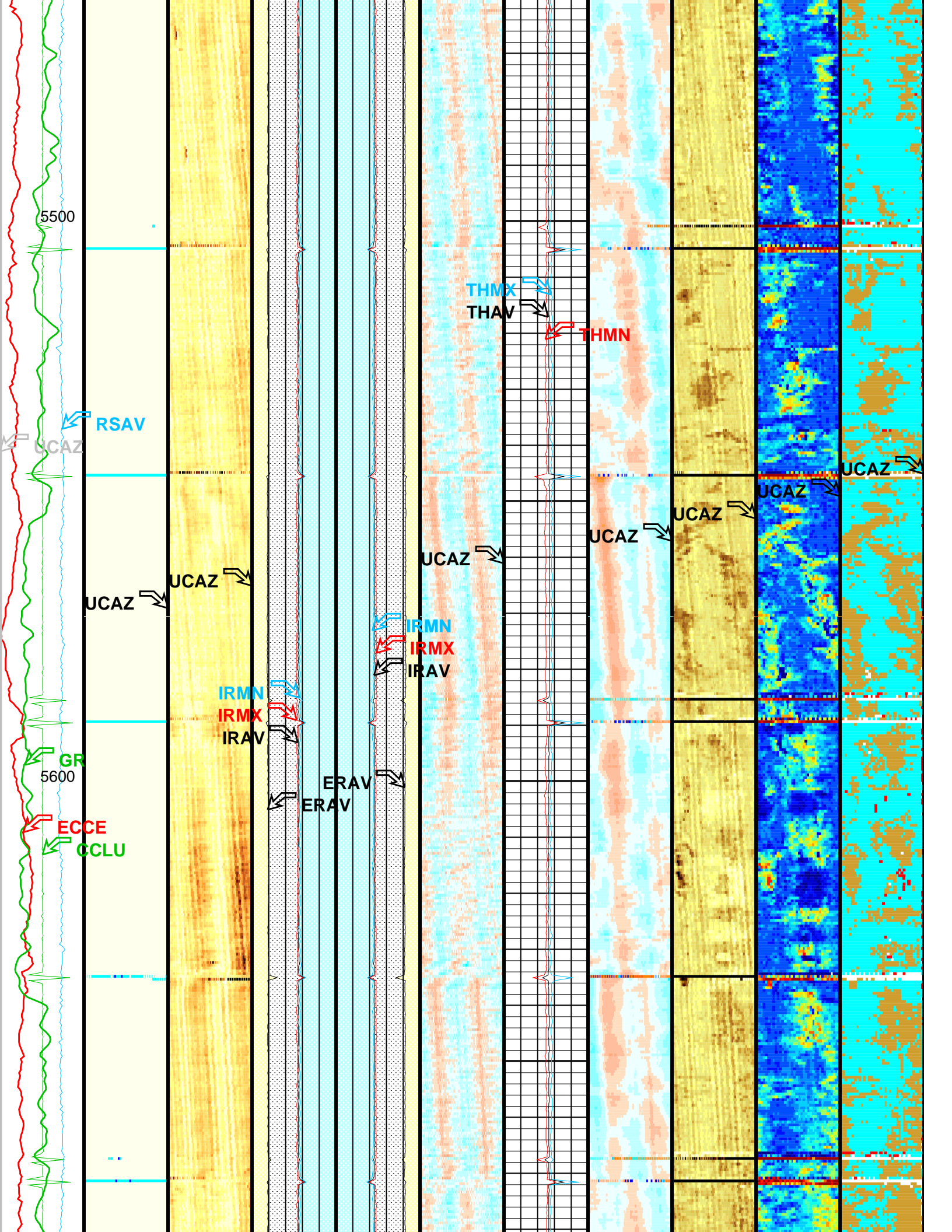


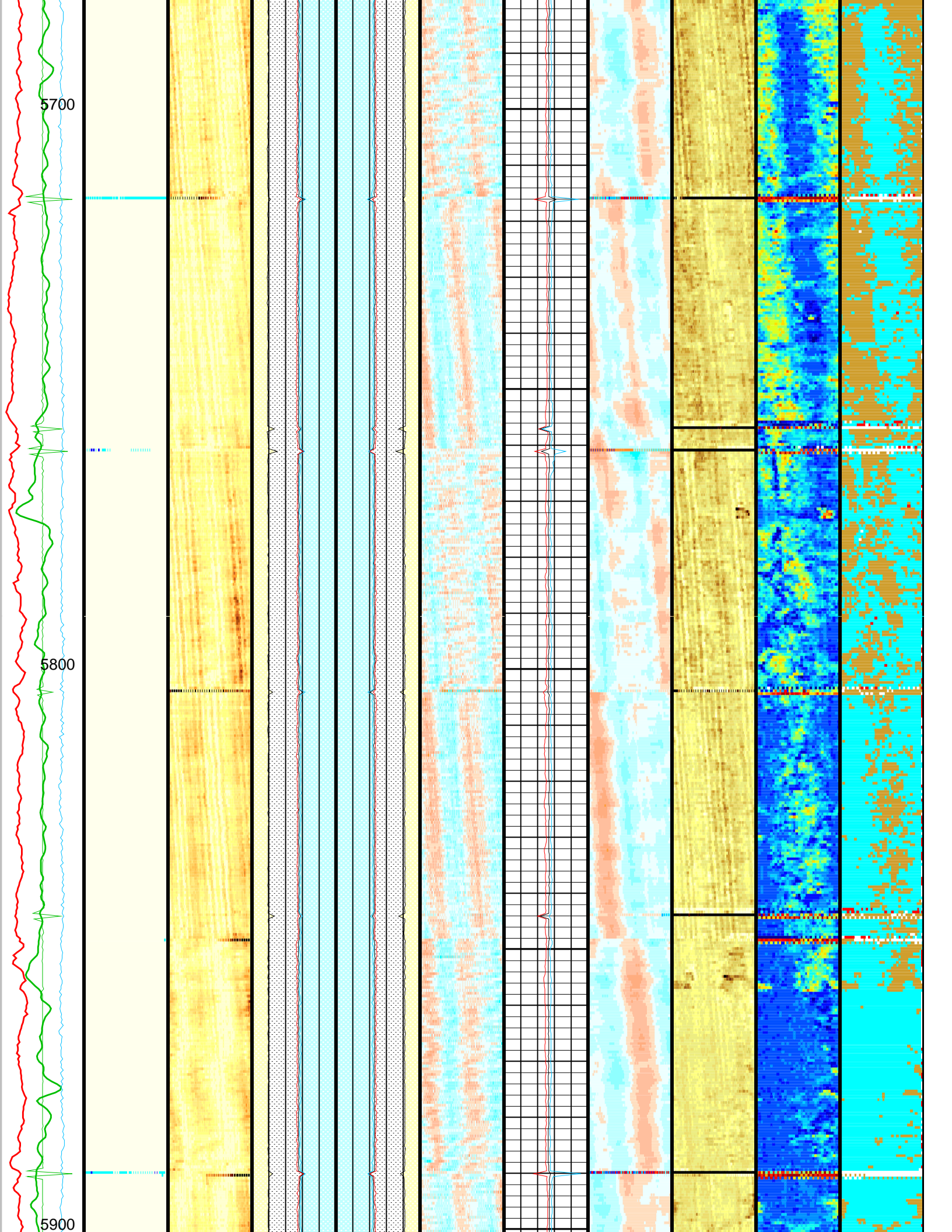


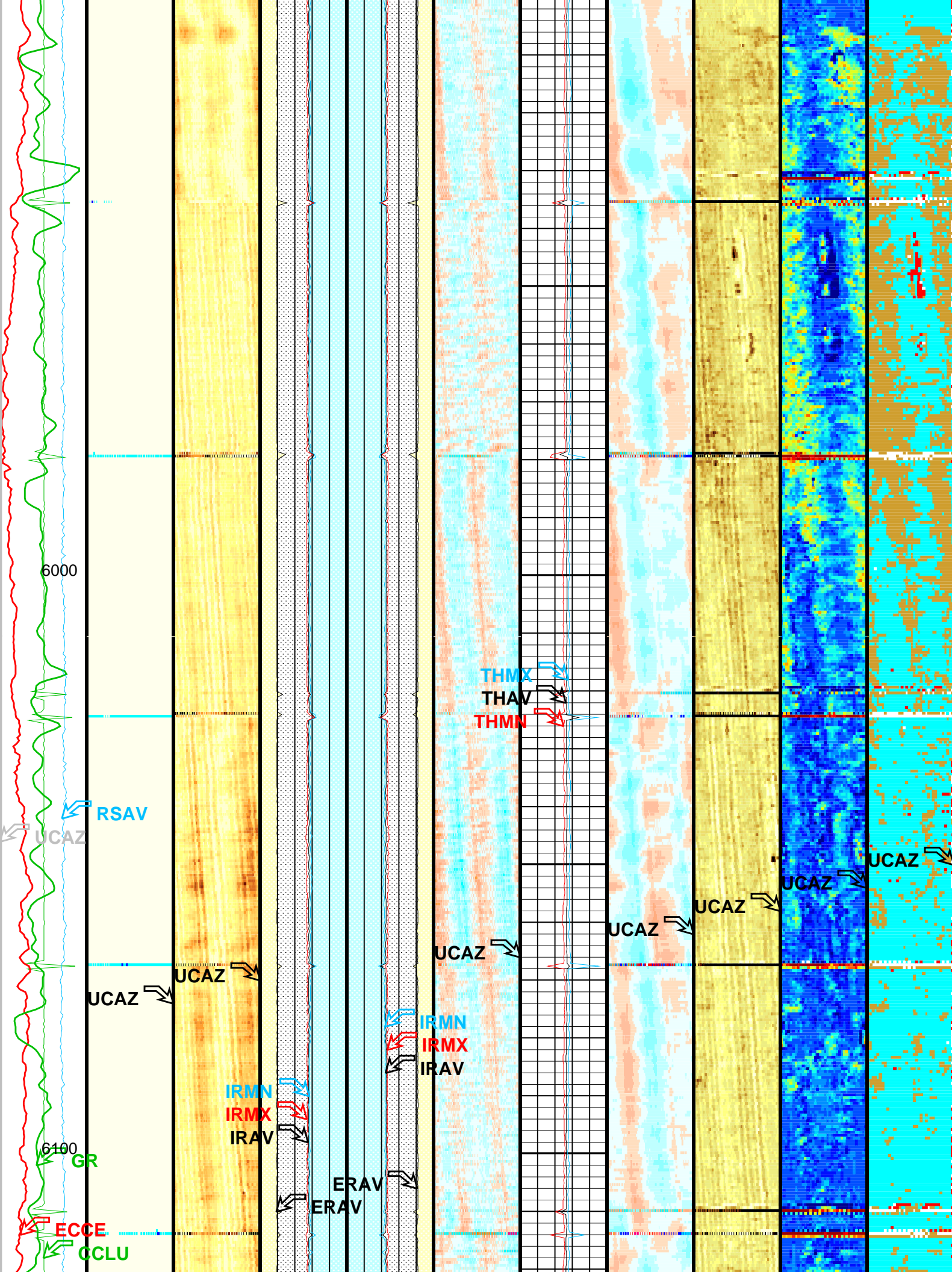


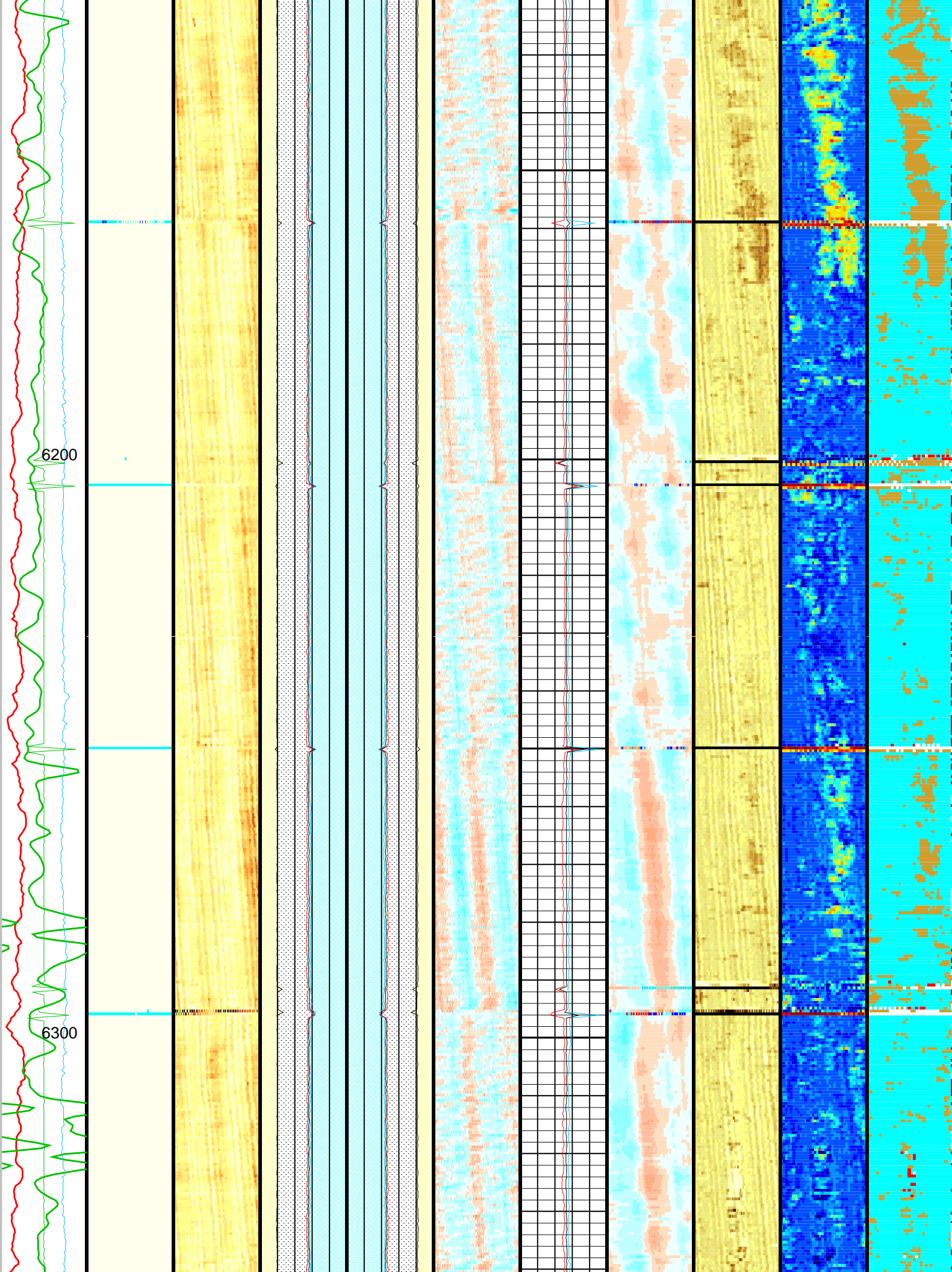


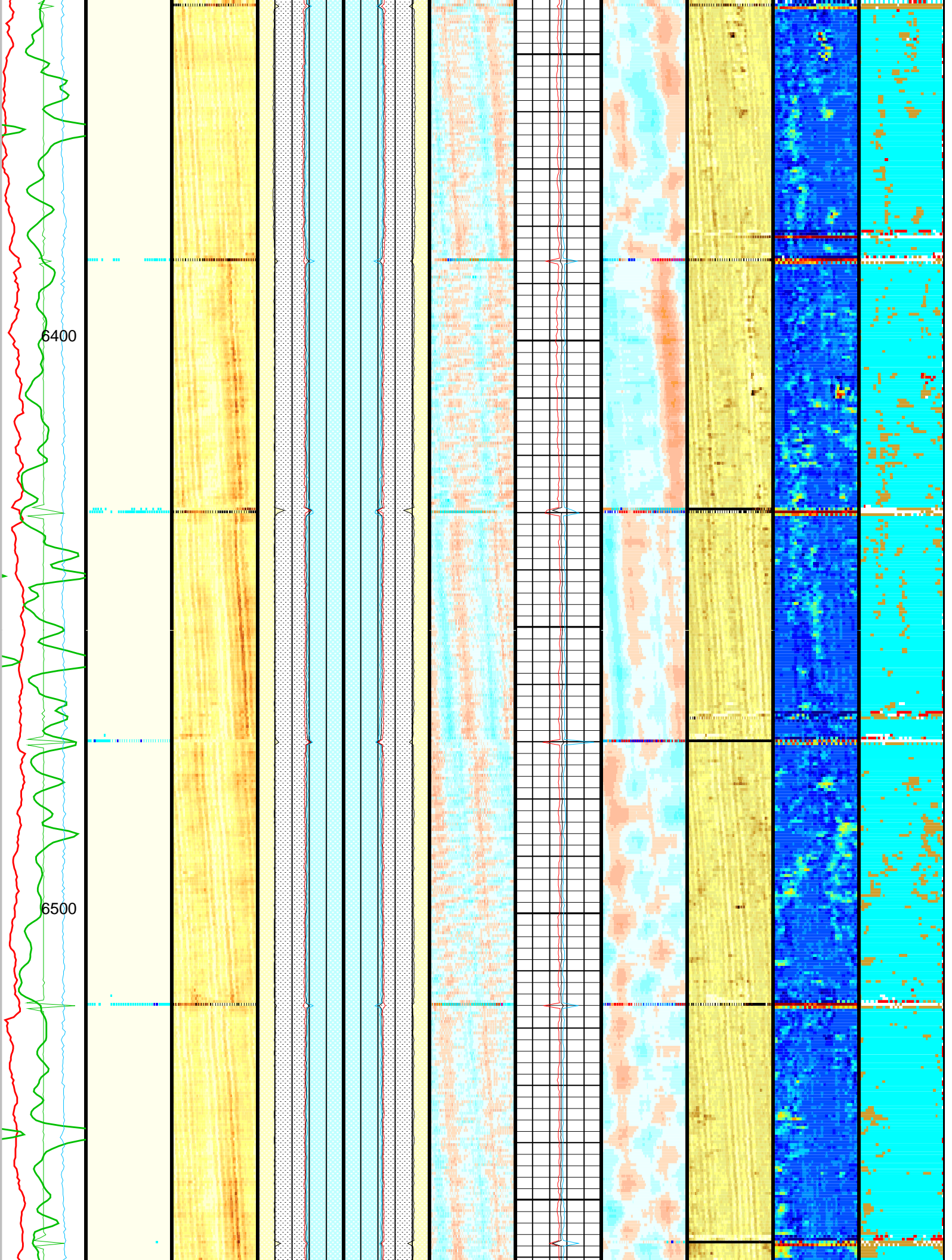


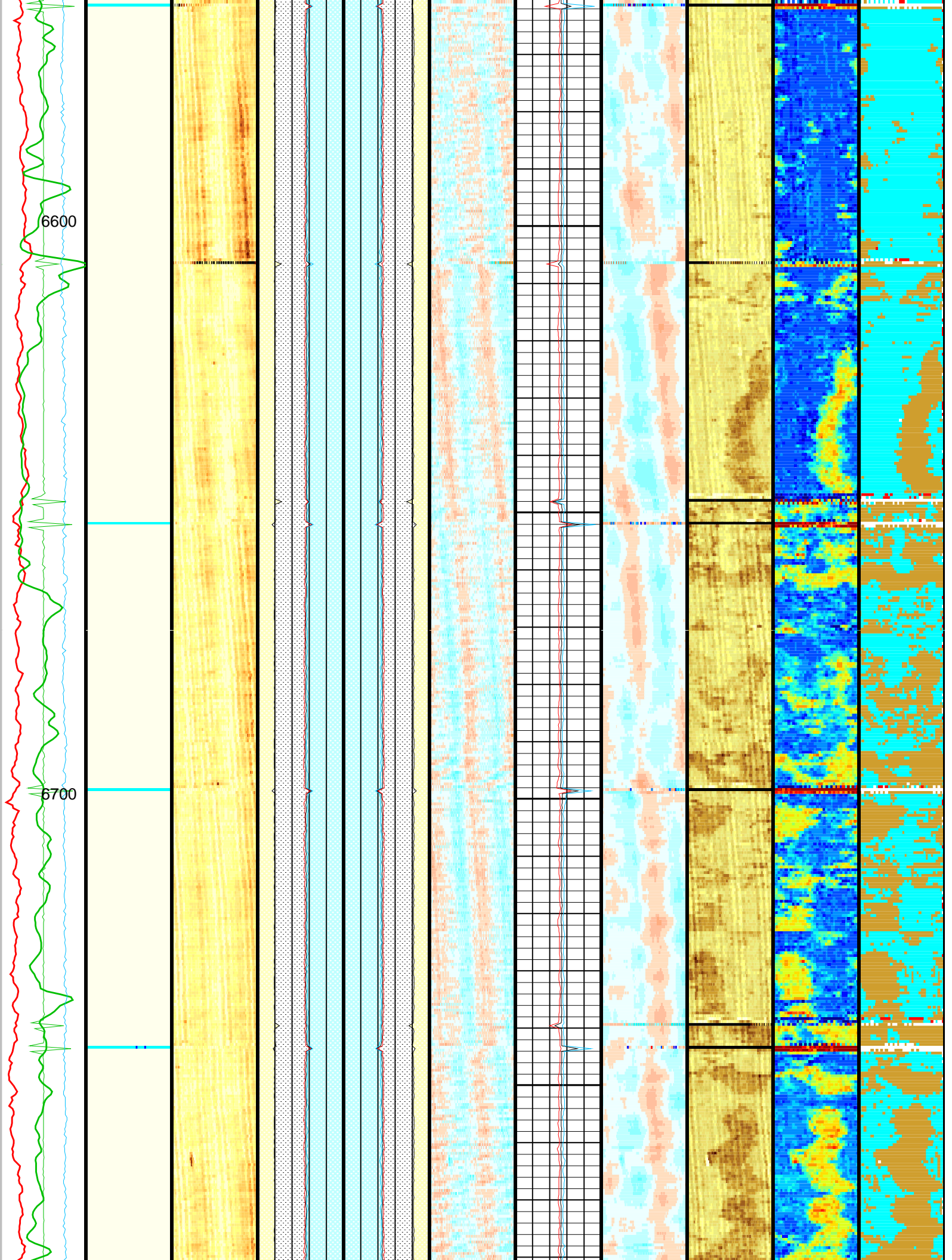


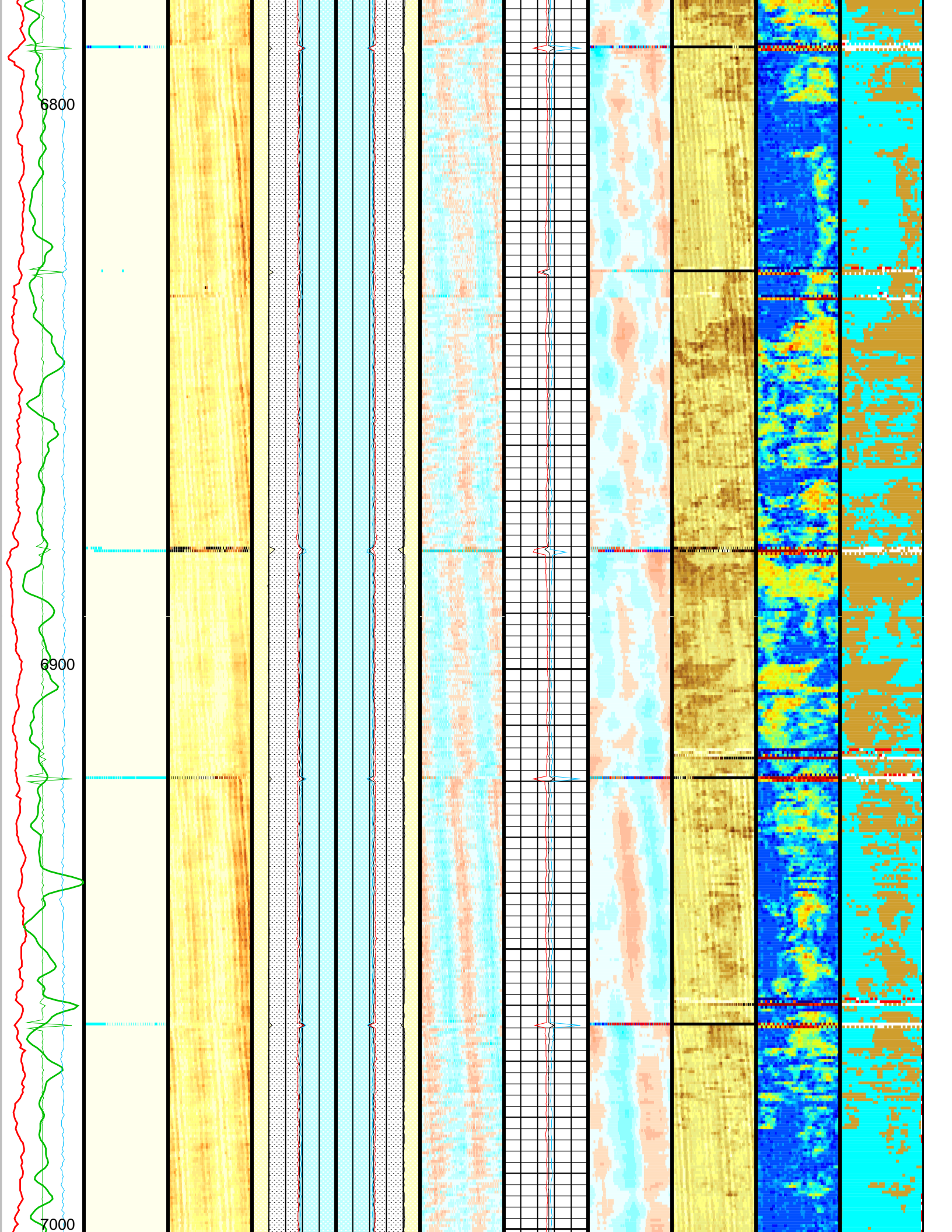


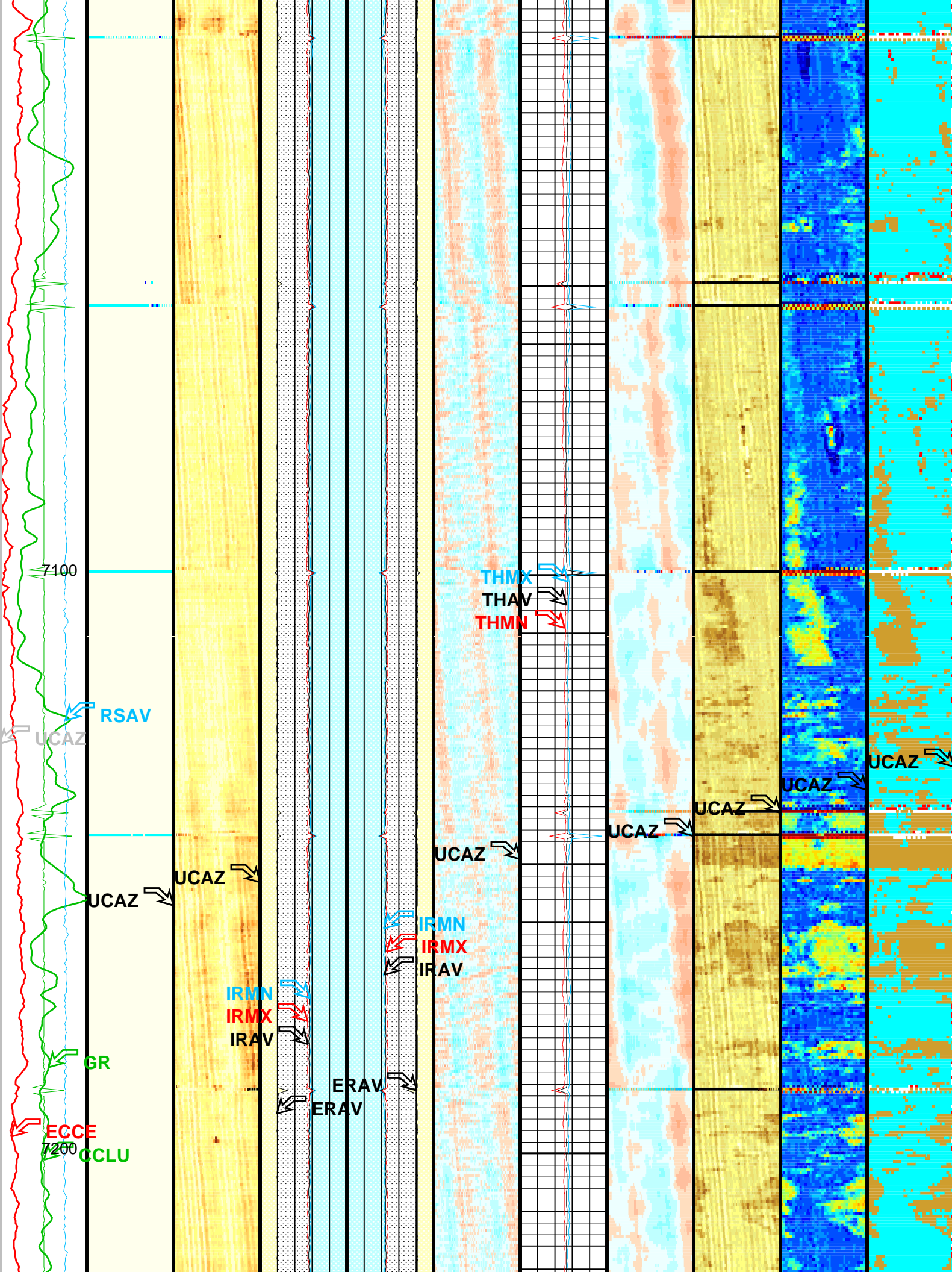


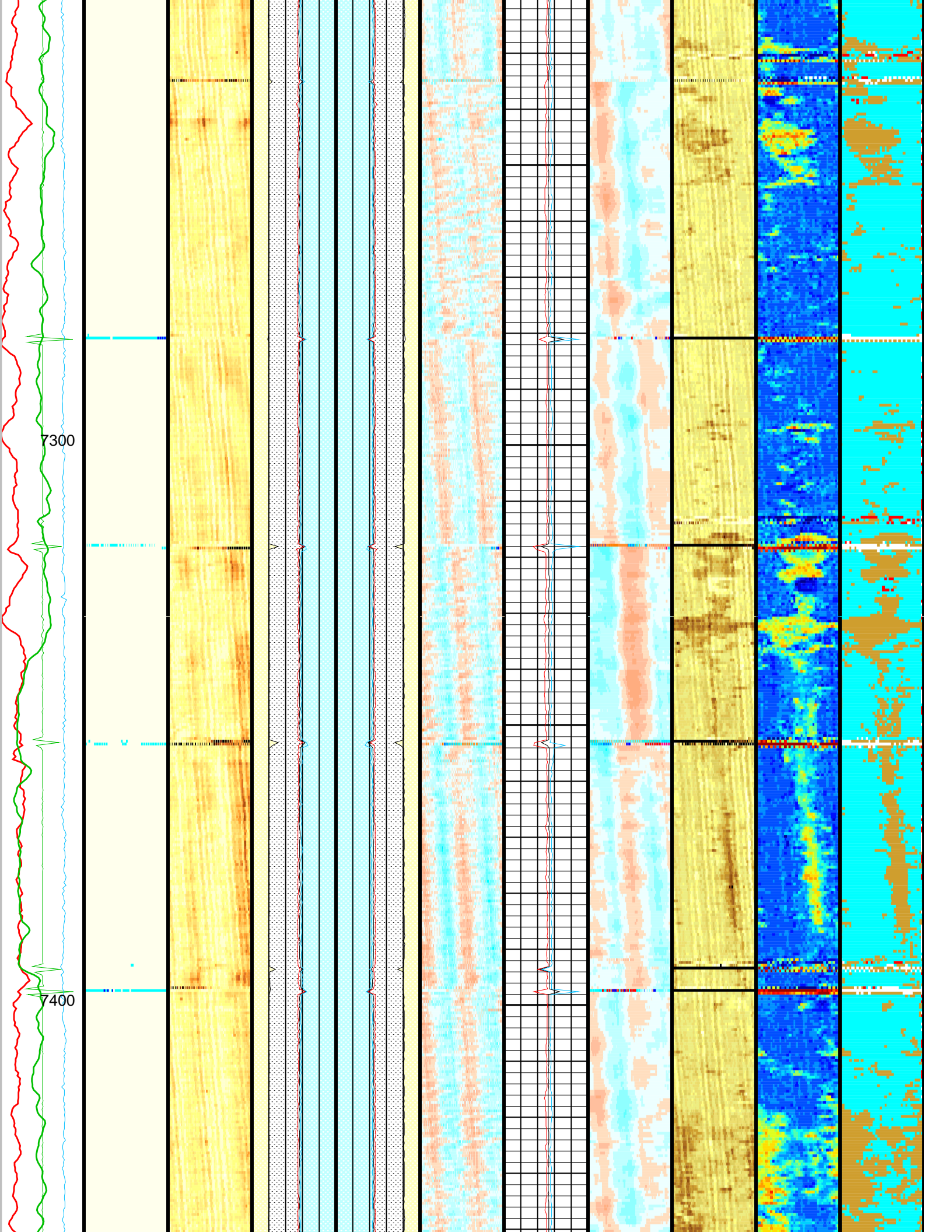


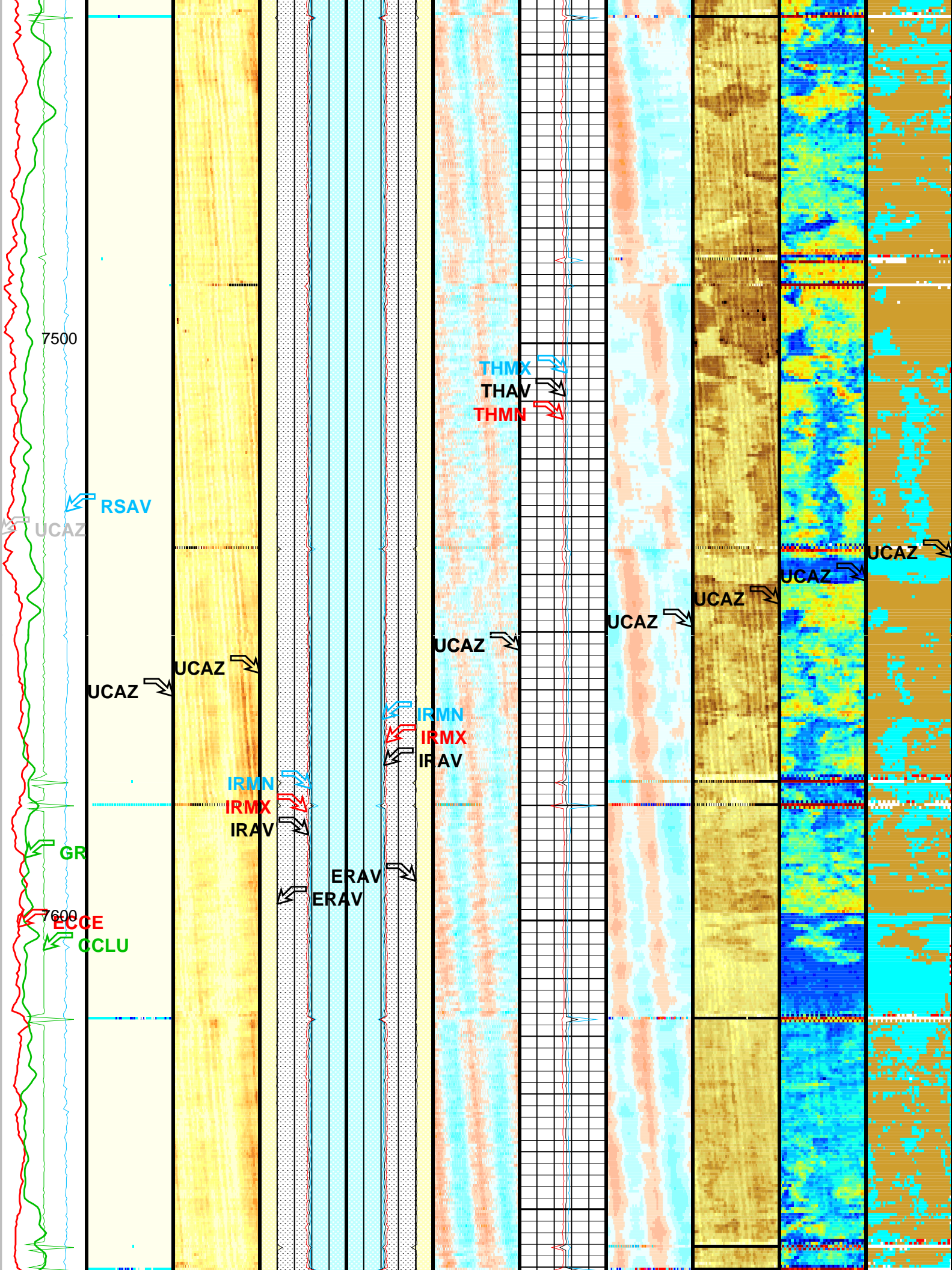


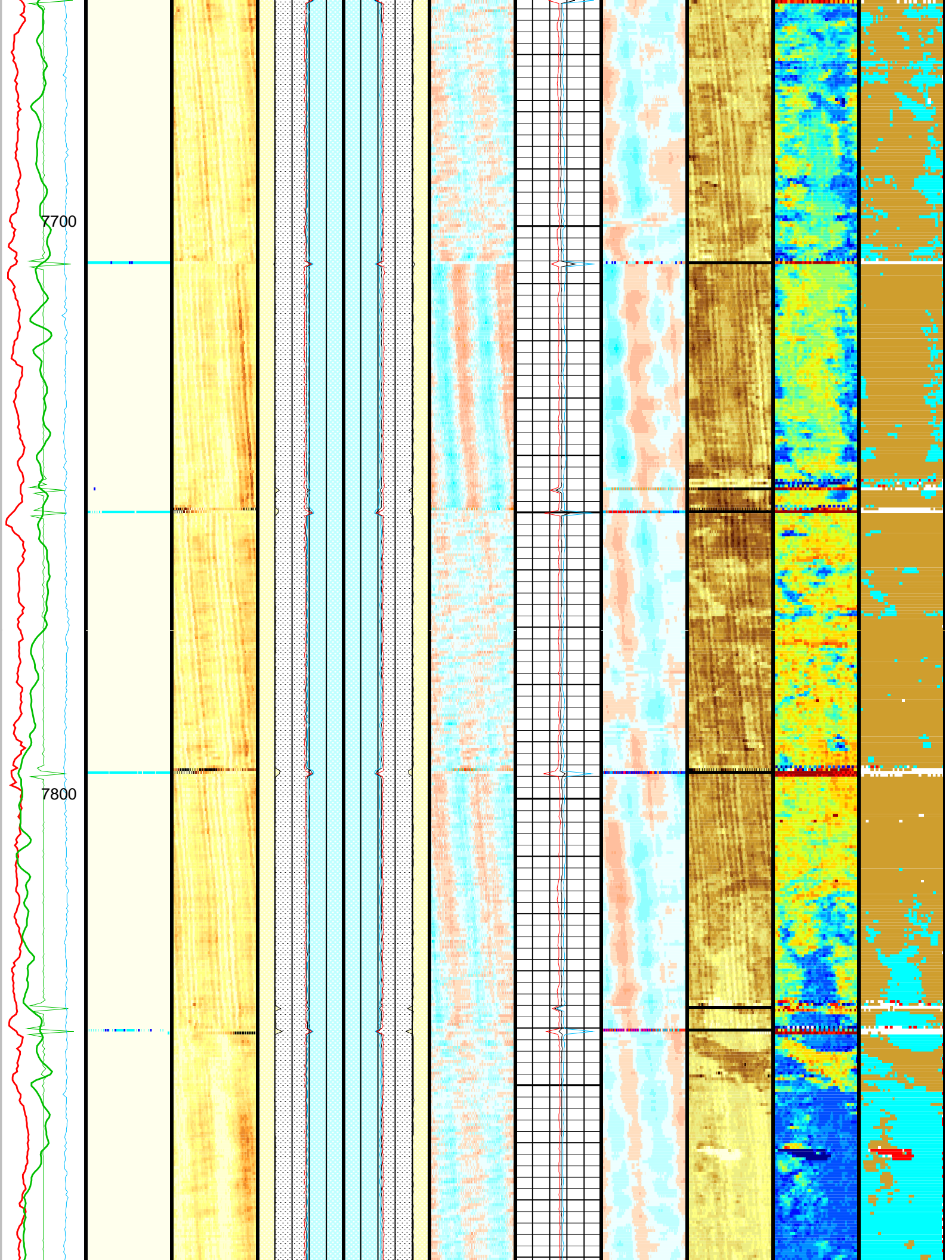


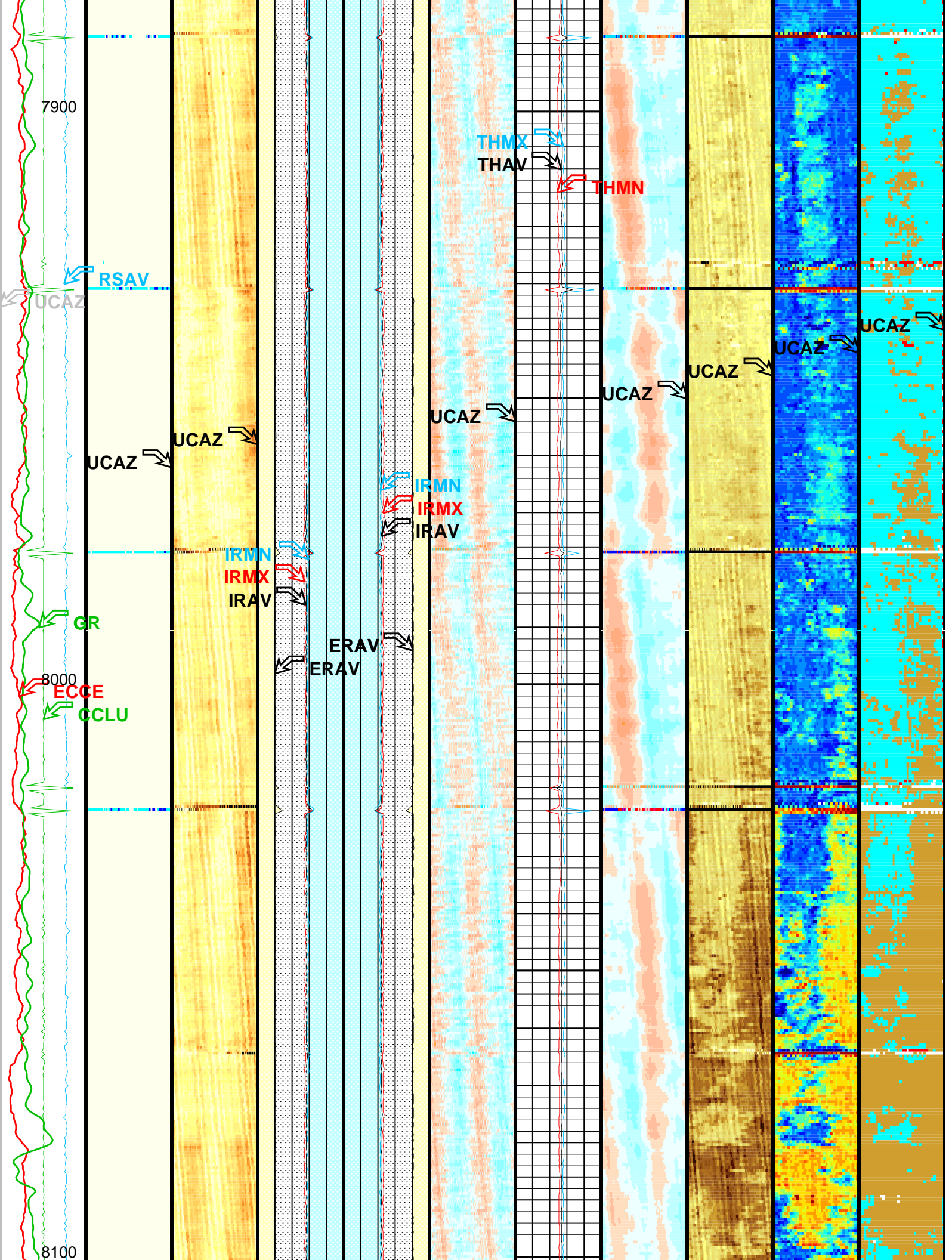


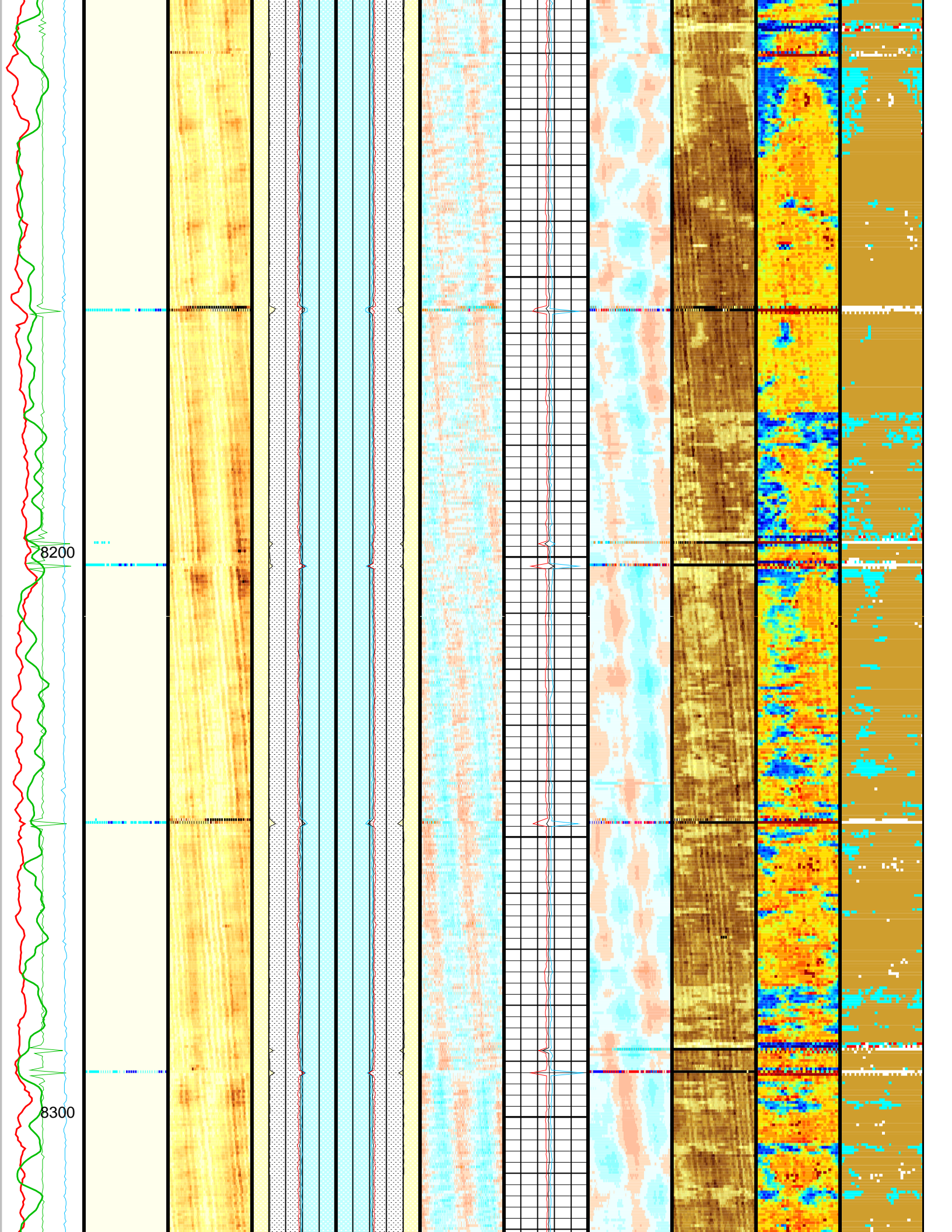


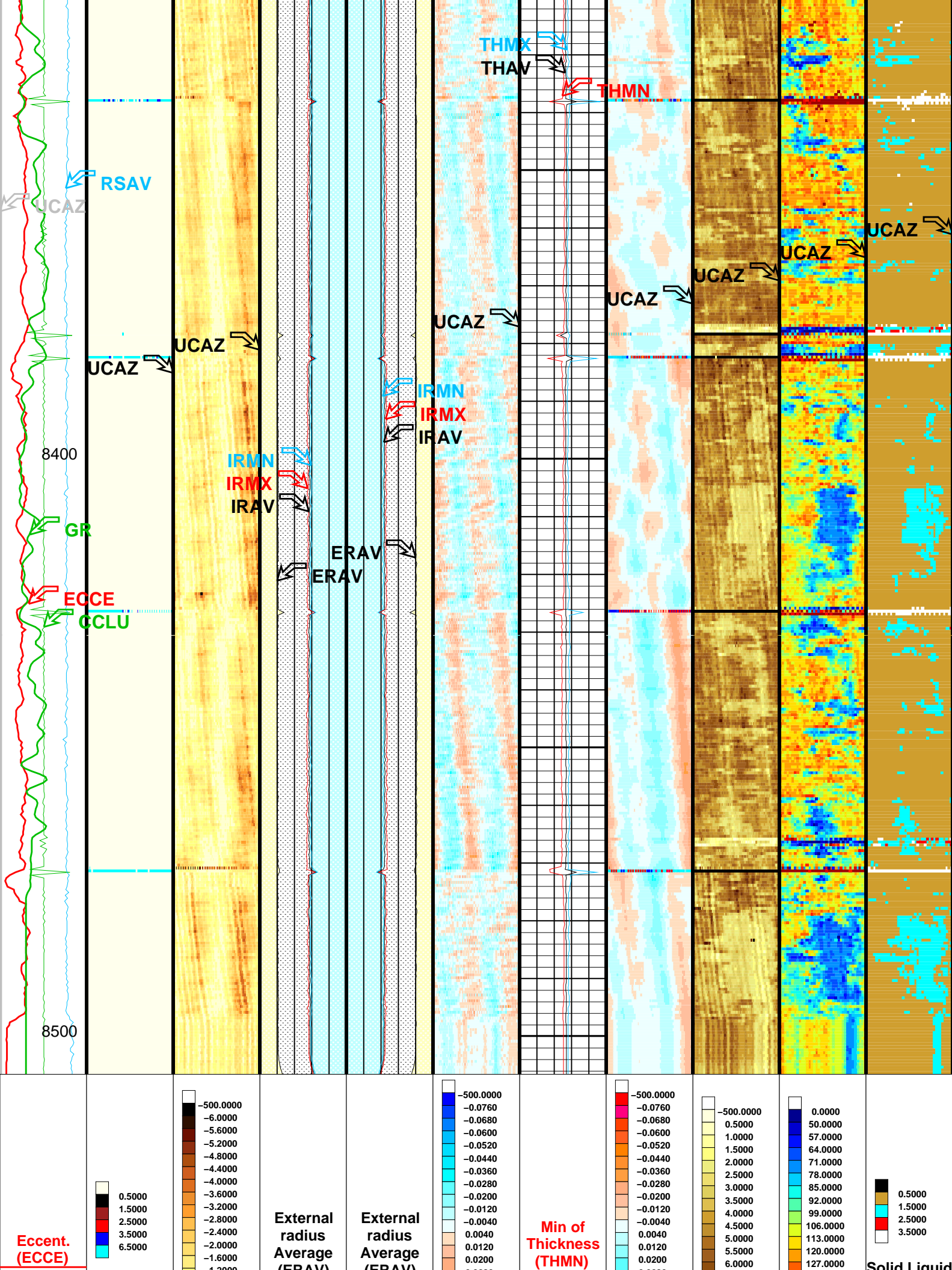












0 (IN) 0.5	Process. flags (UFLG) (----)	Amplitude of echo minus Max (AWBK) (DB)	(ERAV) (IN)	(ERAV) (IN)	Internal radii minus Ave (IRBK) (IN)	Thickness minus Ave (THBK) (IN)	Raw Acoustic Imped. (AIBK) (MRAY)	Flexural Attenuation (U-USIT_UFAK) (DB/M)	Gas Map (U-USIT_USLP) (----)
			3.7 2.7 2.7 3.7		0.1 0.6				
CCL (CCLU) (----)			Internal radius Average (IRAV) (IN)	Internal radius Average (IRAV) (IN)	Average of Thickness (THAV) (IN)				
-20 20			3.7 2.7 2.7 3.7		0.1 0.6				
RSV (RSV) (RPS)			Internal radius Maximum (IRMX) (IN)	Internal radius Maximum (IRMX) (IN)	Maximum of Thickness (THMX) (IN)				
6 7.5			3.7 2.7 2.7 3.7		0.1 0.6				
Gamma Ray (GR) (GAPI)			Min of Internal radius (IRMN) (IN)	Min of Internal radius (IRMN) (IN)					
0 150			3.7 2.7 2.7 3.7						
Image rotation (UCAZ) (DEG)									
0 360									

Format: USI_IBC_SLG_Composite Vertical Scale: 5" per 100' Graphics File Created: 11-Nov-2009 03:36

OP System Version: 17C0-154			
USIT-D DTC-H	SRPC-3779-Q1_2009_OP17_b 17C0-154	HILTH-FTB	SRPC-3779-Q1_2009_OP17_b

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	IN
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	6.276	IN
DFVL	Default Fluid Velocity	203	US/F
DOT	Diameter of Transducer Sensor	2.874	IN
EMXV	EMEX Voltage	120	V
FSOD	Fluid Slowness Fits Casing Outer Diameter	2_UFSL_N_UFAI	
IMAR	Image Rotation	OFF	
MW	Mud Weight	9.4	LB/G
RCOD	Reference Calibrator Outer Diameter	7	IN
ROCD	Reference Calibrator Outer Diameter	1.1214	IN

RCSO	Reference Calibrator Standoff	1.1811	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	130	
THDL	Minimum Search Thickness (percentage of nominal)	70	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.362	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	10.75	IN
U-USIT_OCSH	USIT Outer Casing Shoe	4318	FT
U-USIT_OCWE	USIT Outer Casing Weight	45	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	-14	DB/M
U-USIT_UIAP	USIT IBC Answer Product Enabled	SolidLiquidGasMap	
U-USIT_UIST	Ultrasonic IBC Sonde Type	Sub_ibcs_B	
U-USIT_UTAN	USIT Transducer Angles	33_DEG	
UMAO	USIT Measurement Angular Offset	-10	DEG
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_7_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_136UNF_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	21.7078	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	2	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	26.00	LB/F
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	SPLICE_USI_TLD_MCFL_017	FN:1	PRODUCER	11-Nov-2009 03:26	8506.5 FT	201.5 FT
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Output DLIS Files

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BACKUP	USI_TLD_MCFL_CNL_019PUP	FN:30	PRODUCER	11-Nov-2009 03:37

Schlumberger

VDL WIDE

MAXIS Field Log

Company: EXXONMOBIL PRODUCTION CO

Well: PCU 197-34B10

Input DLIS Files

DEFAULT	SPLICE_USI_TLD_MCFL_017	FN:1	PRODUCER	11-Nov-2009 03:26	8506.5 FT	201.5 FT
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Output DLIS Files

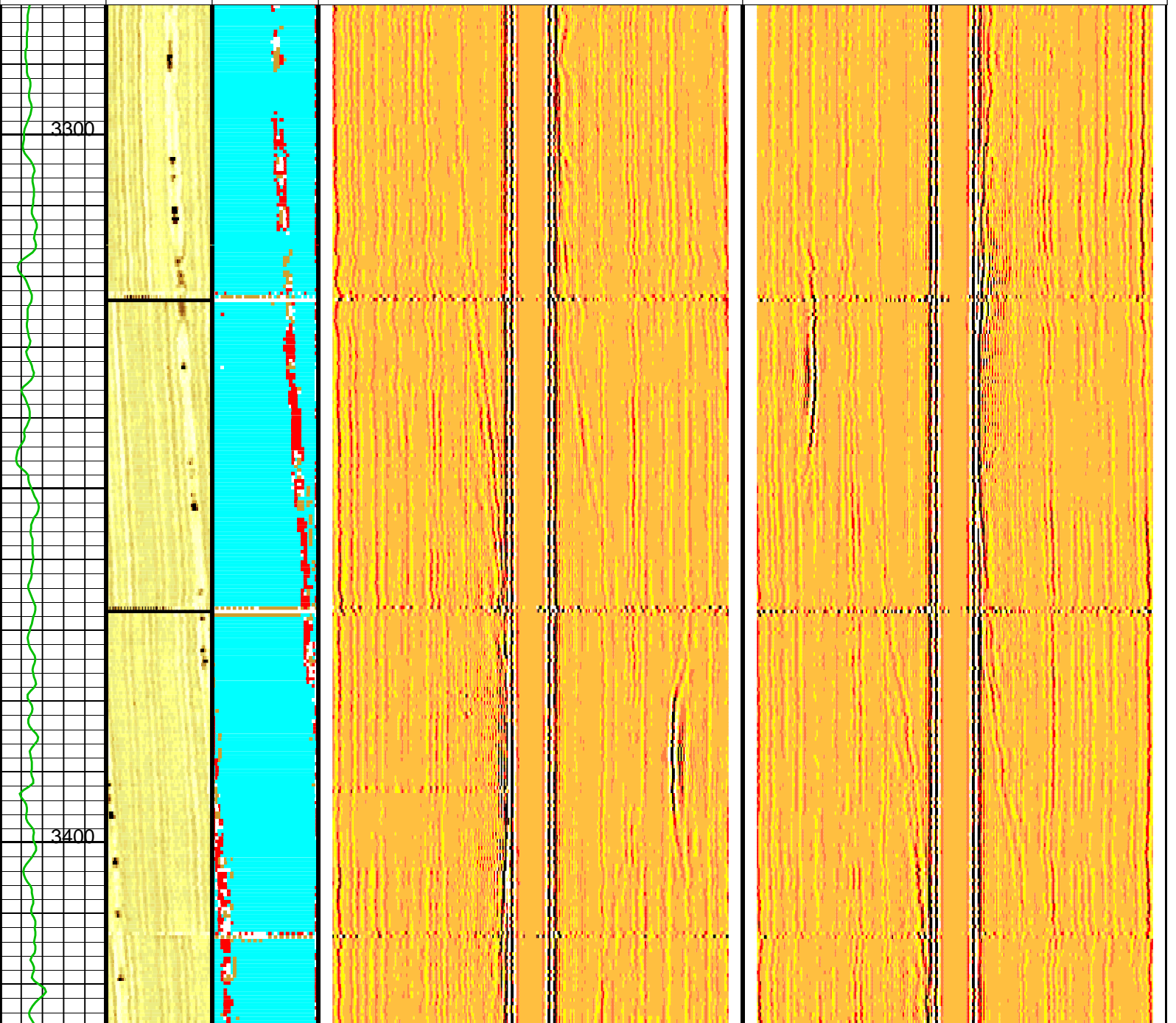
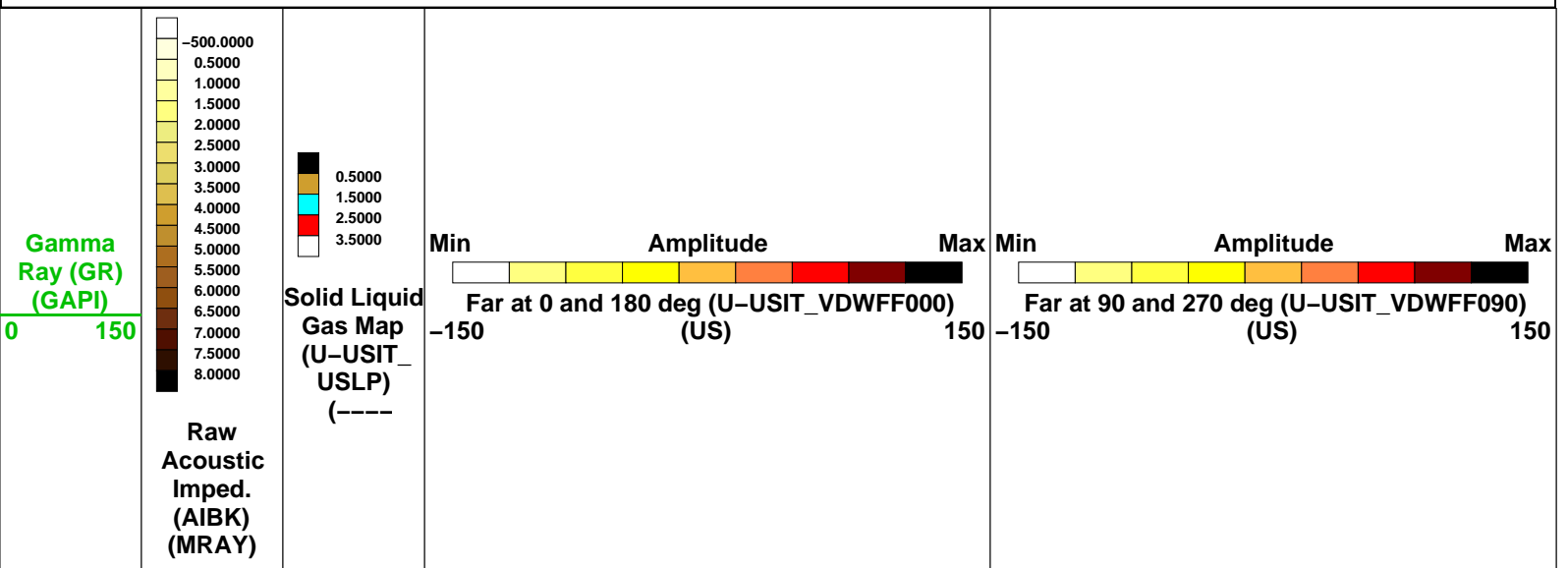
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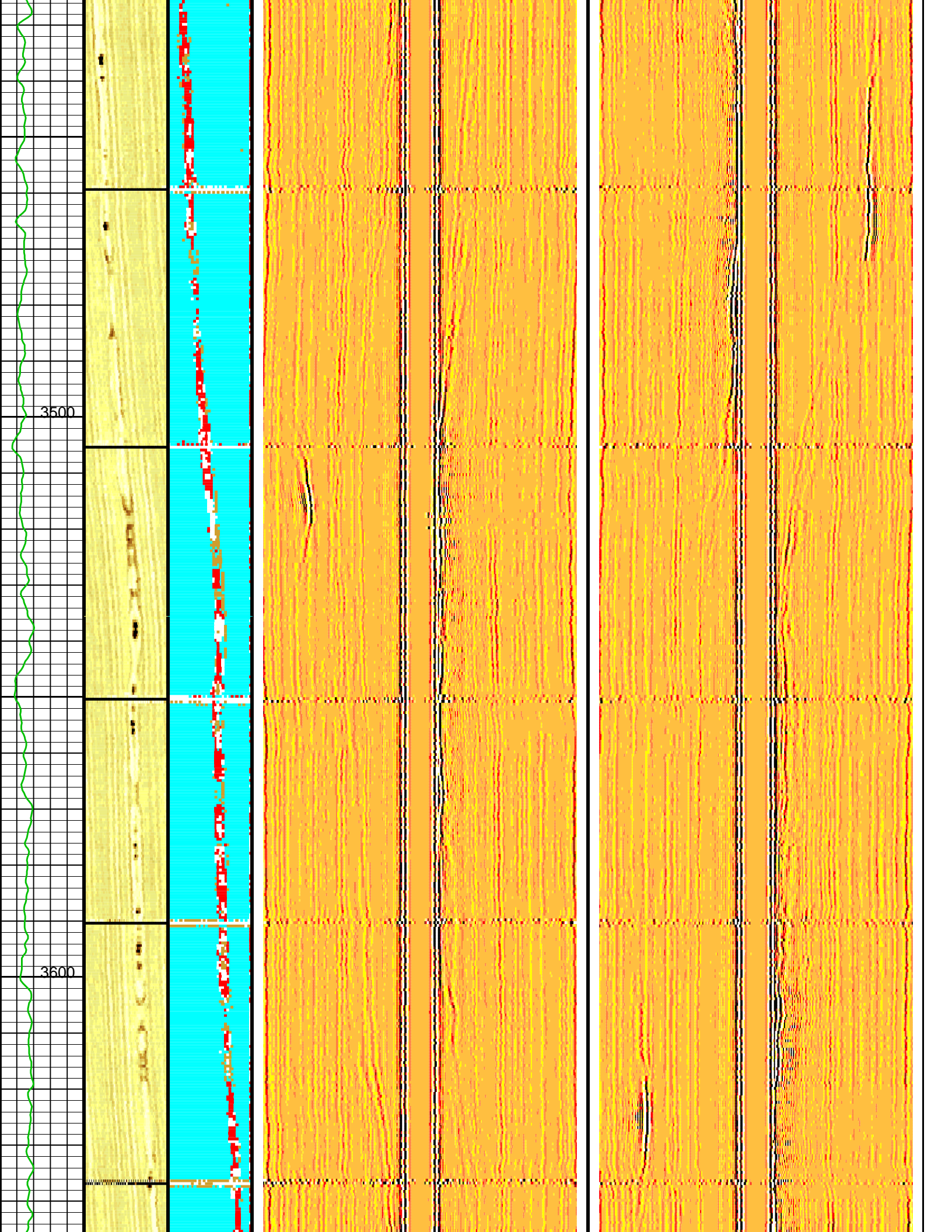
USIT-D
DTC-H

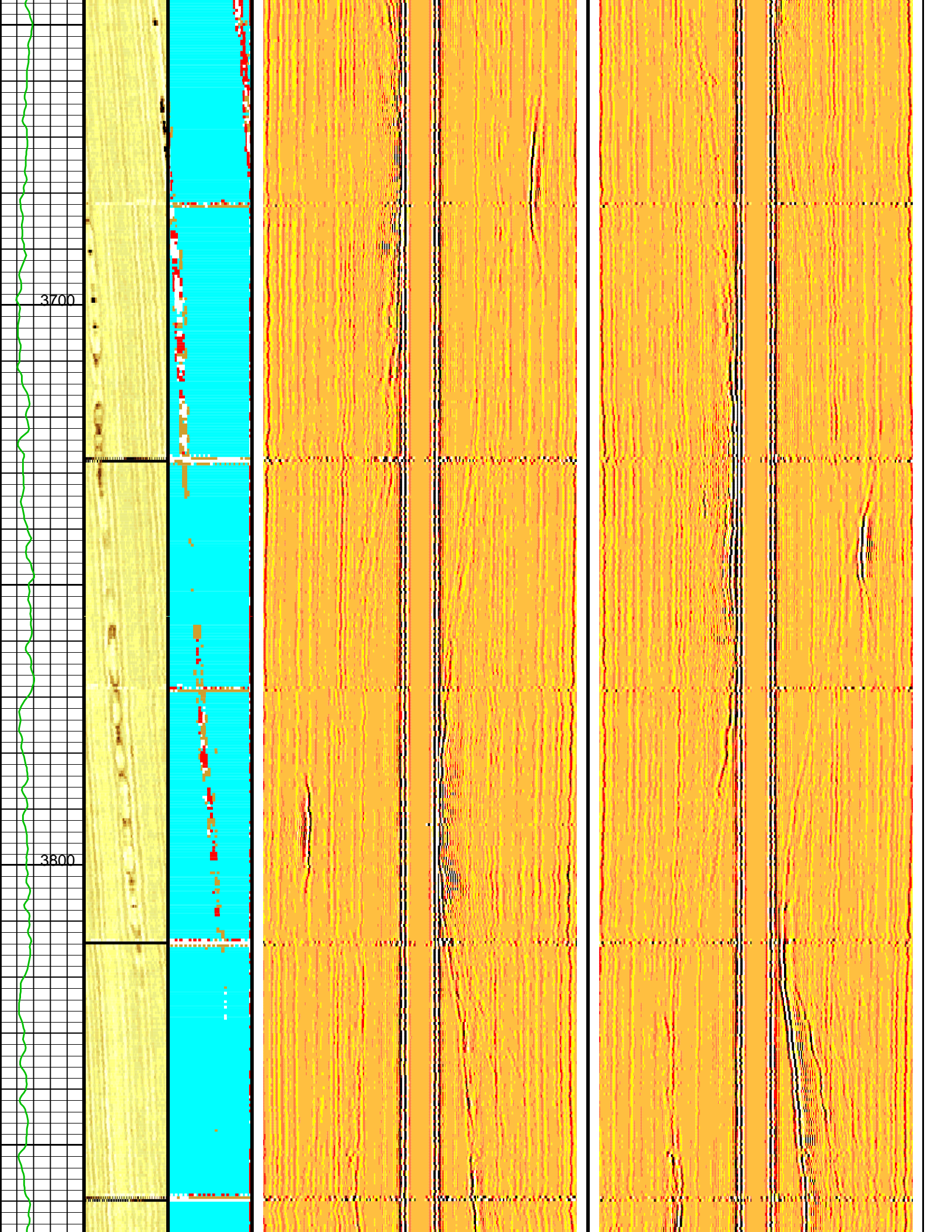
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17C0-154

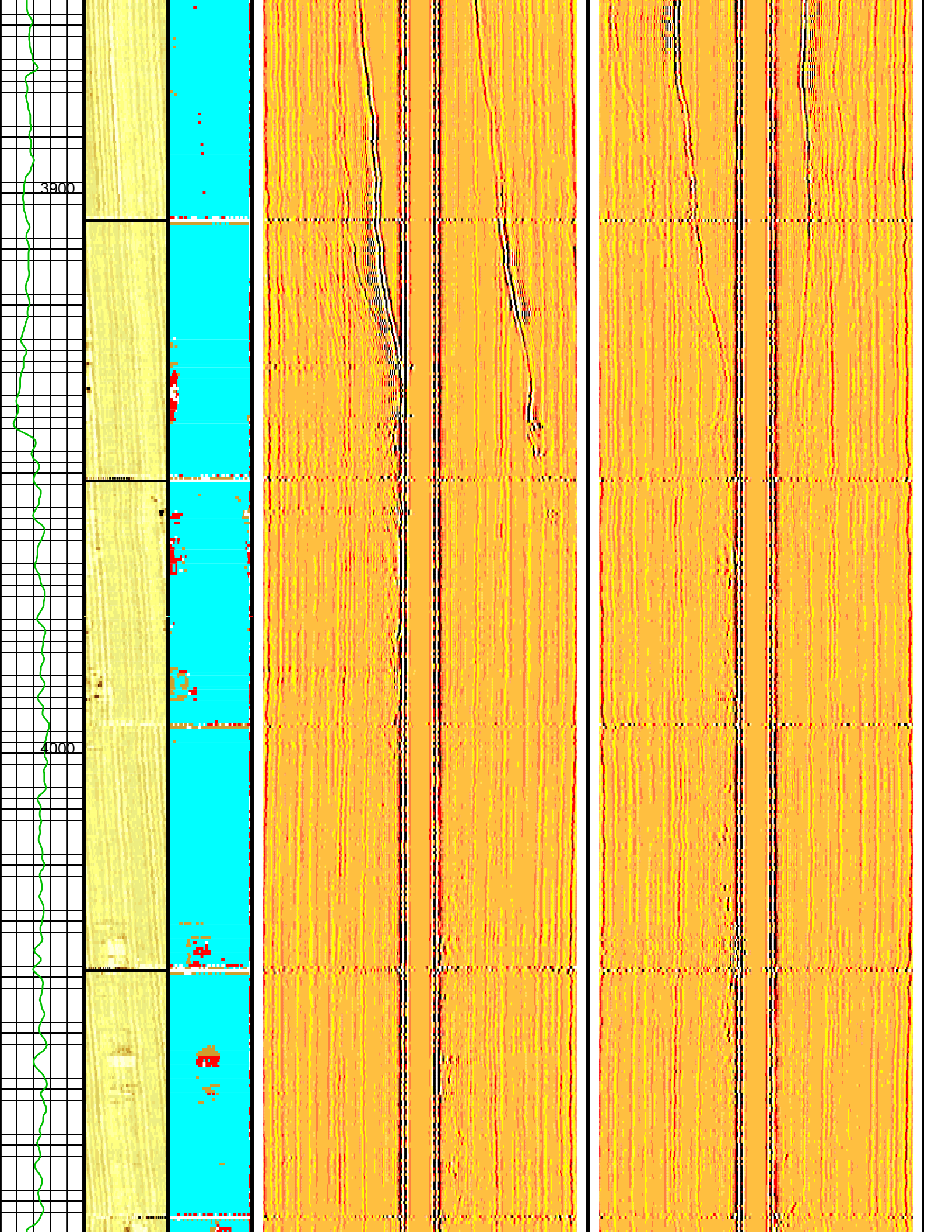
HILTH-FTB

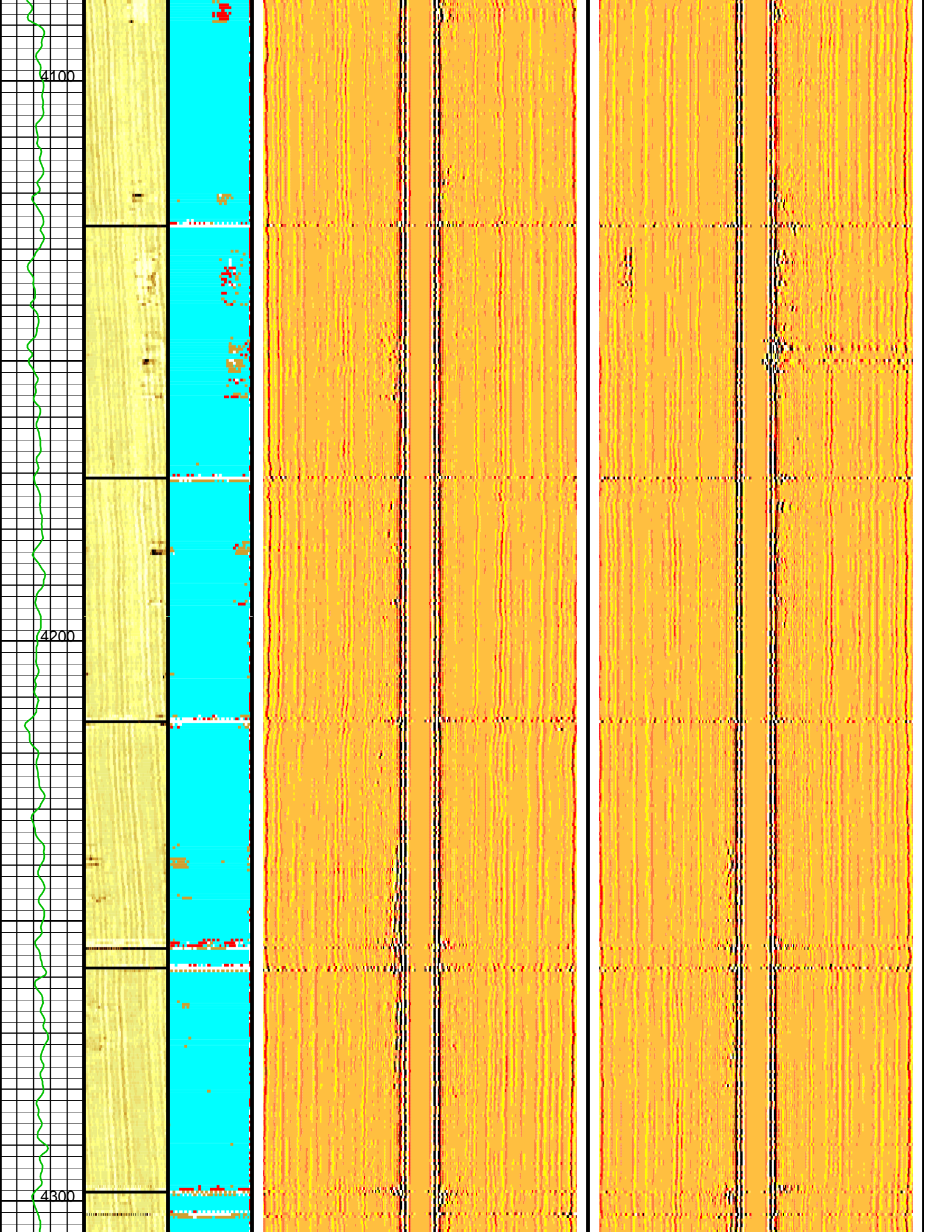
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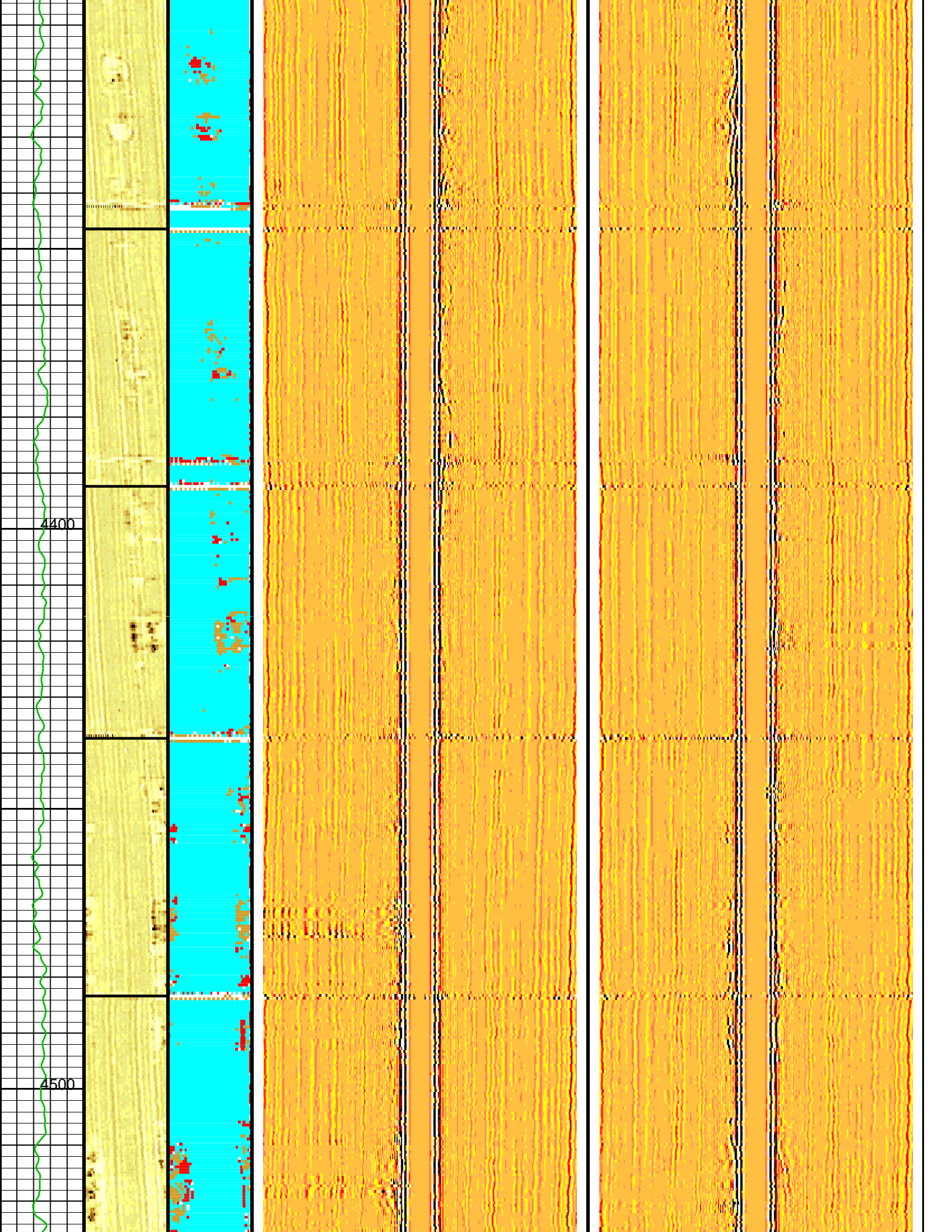


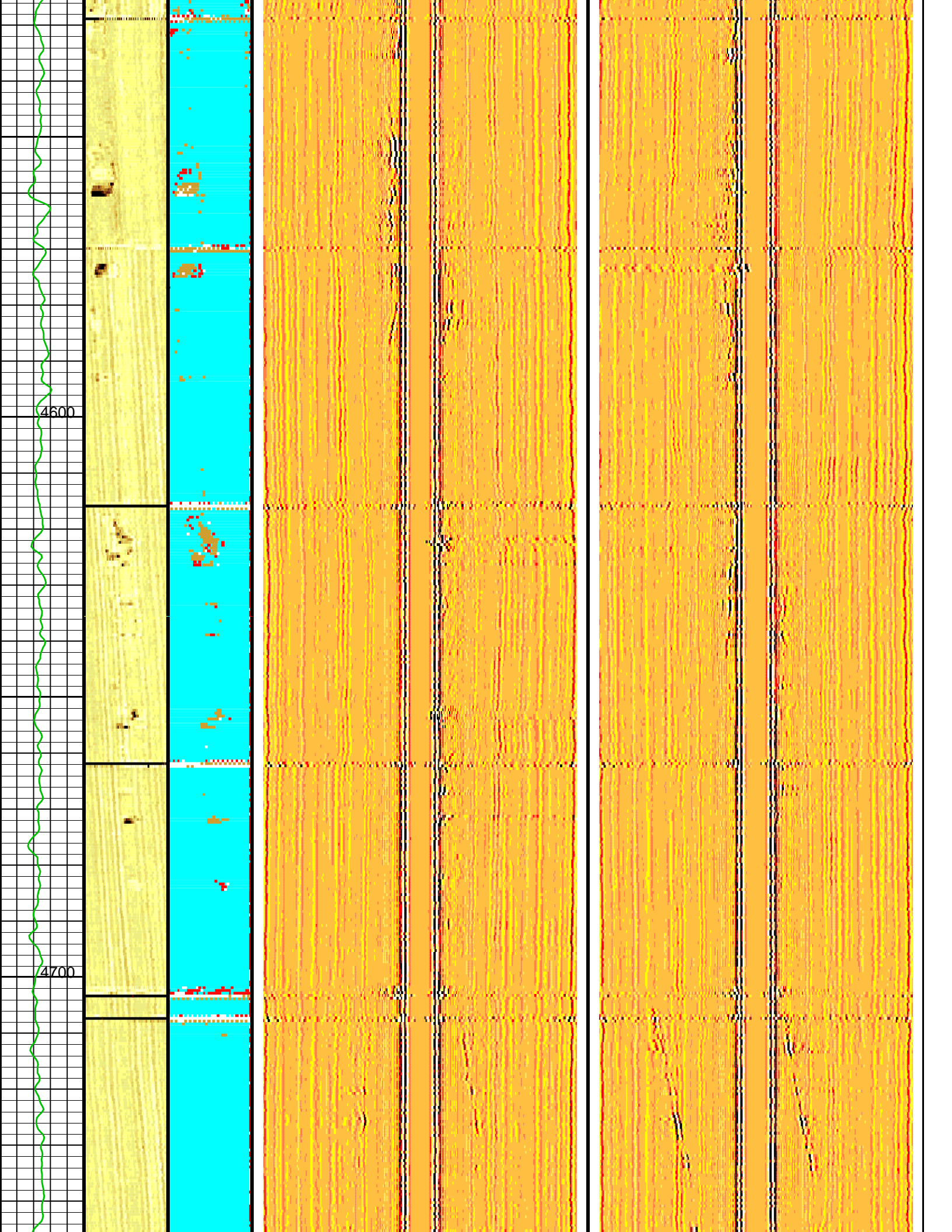


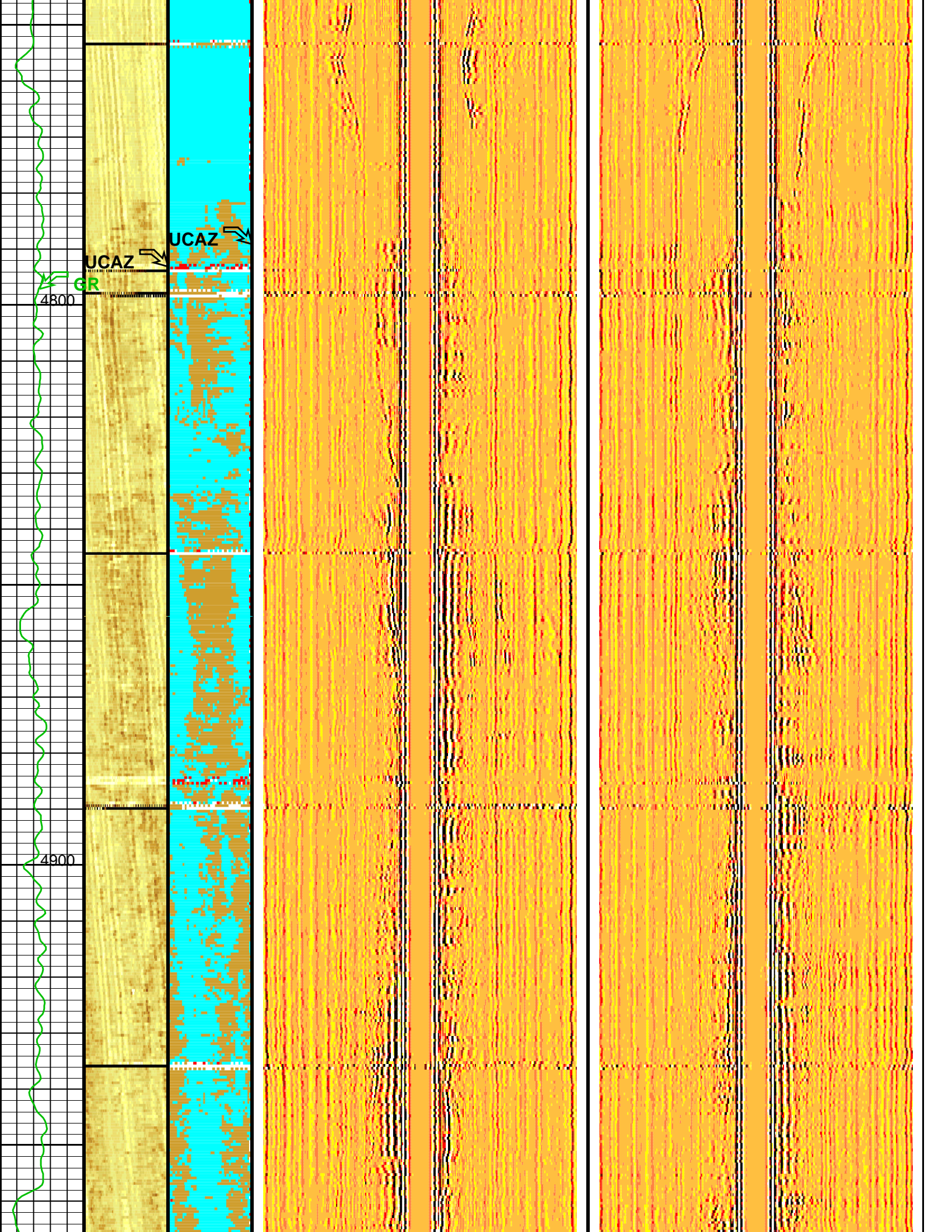


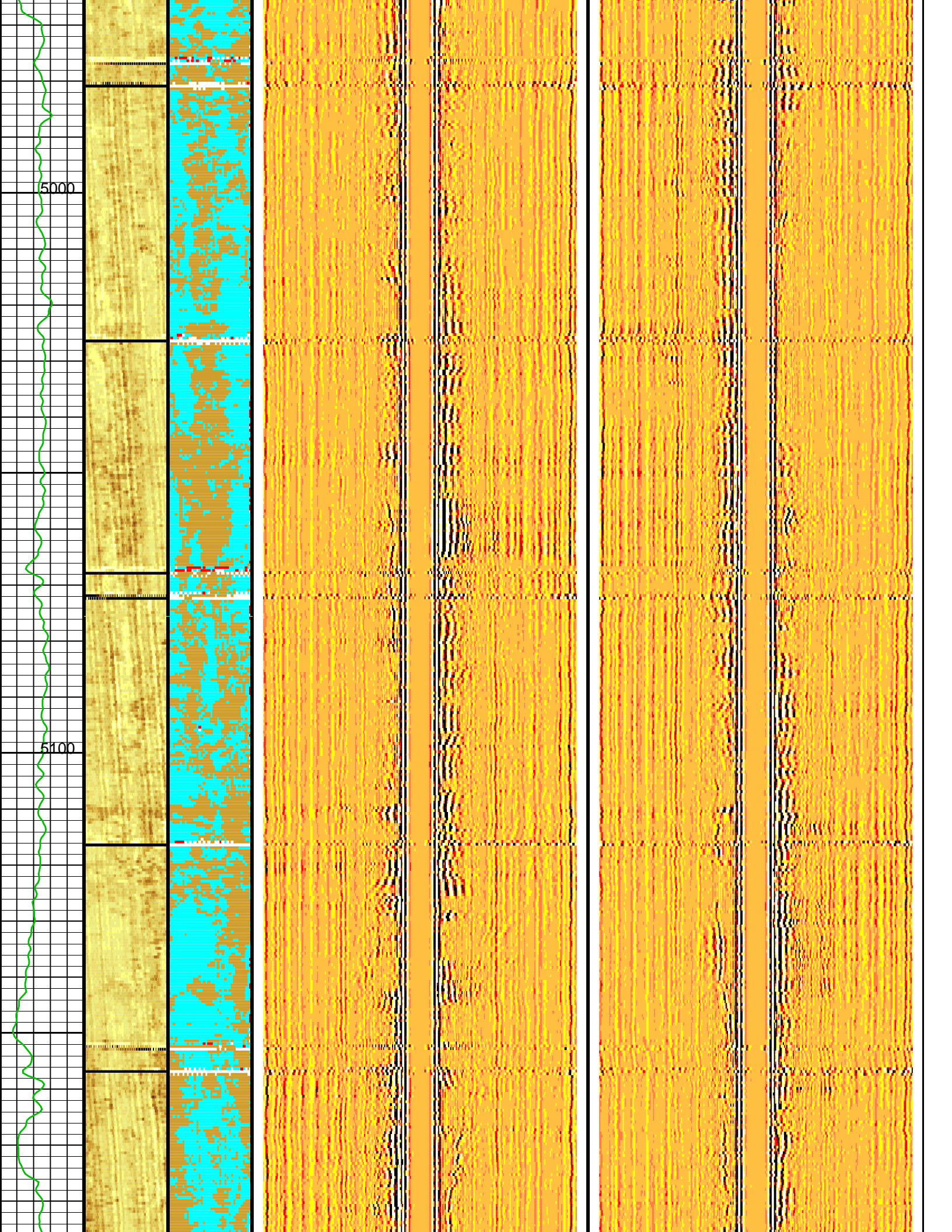


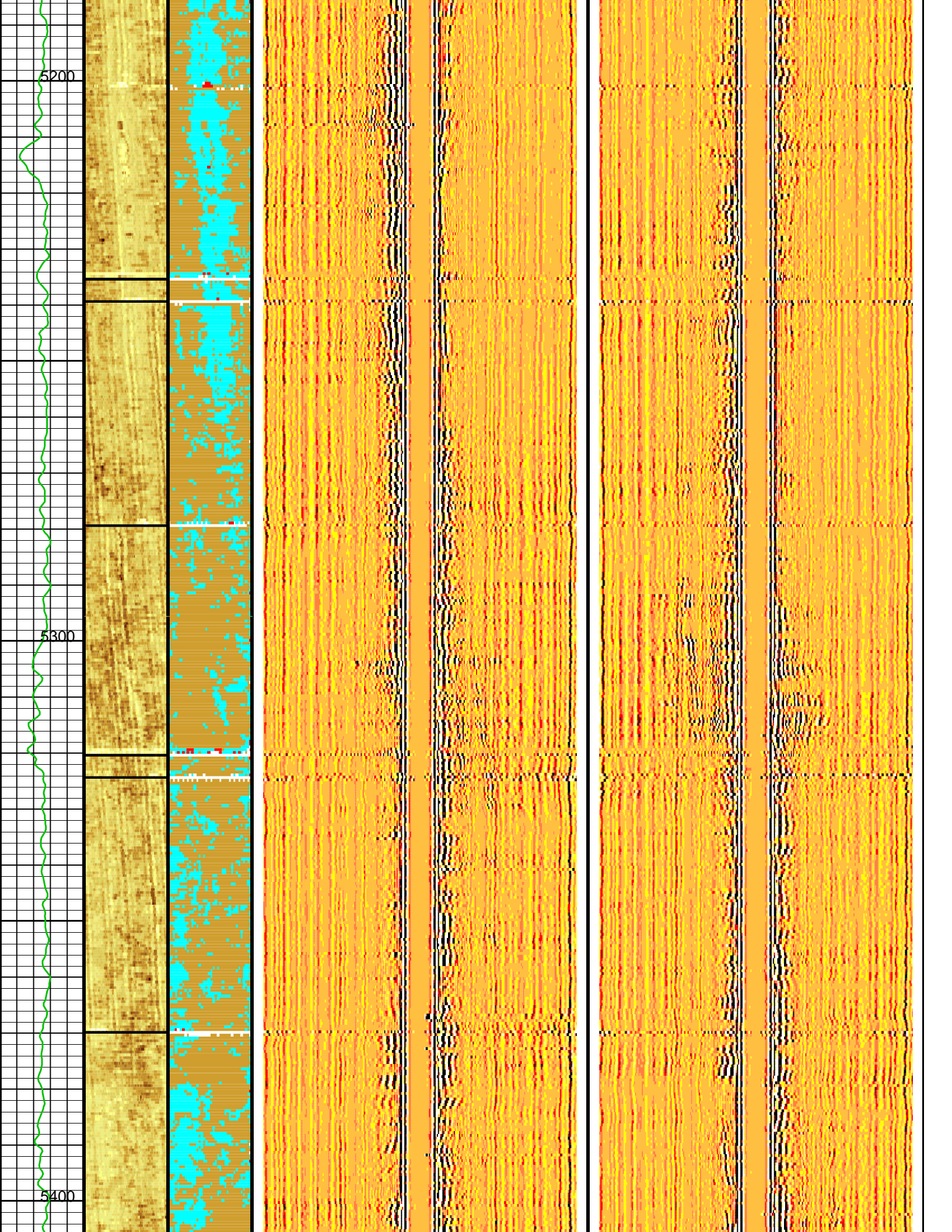


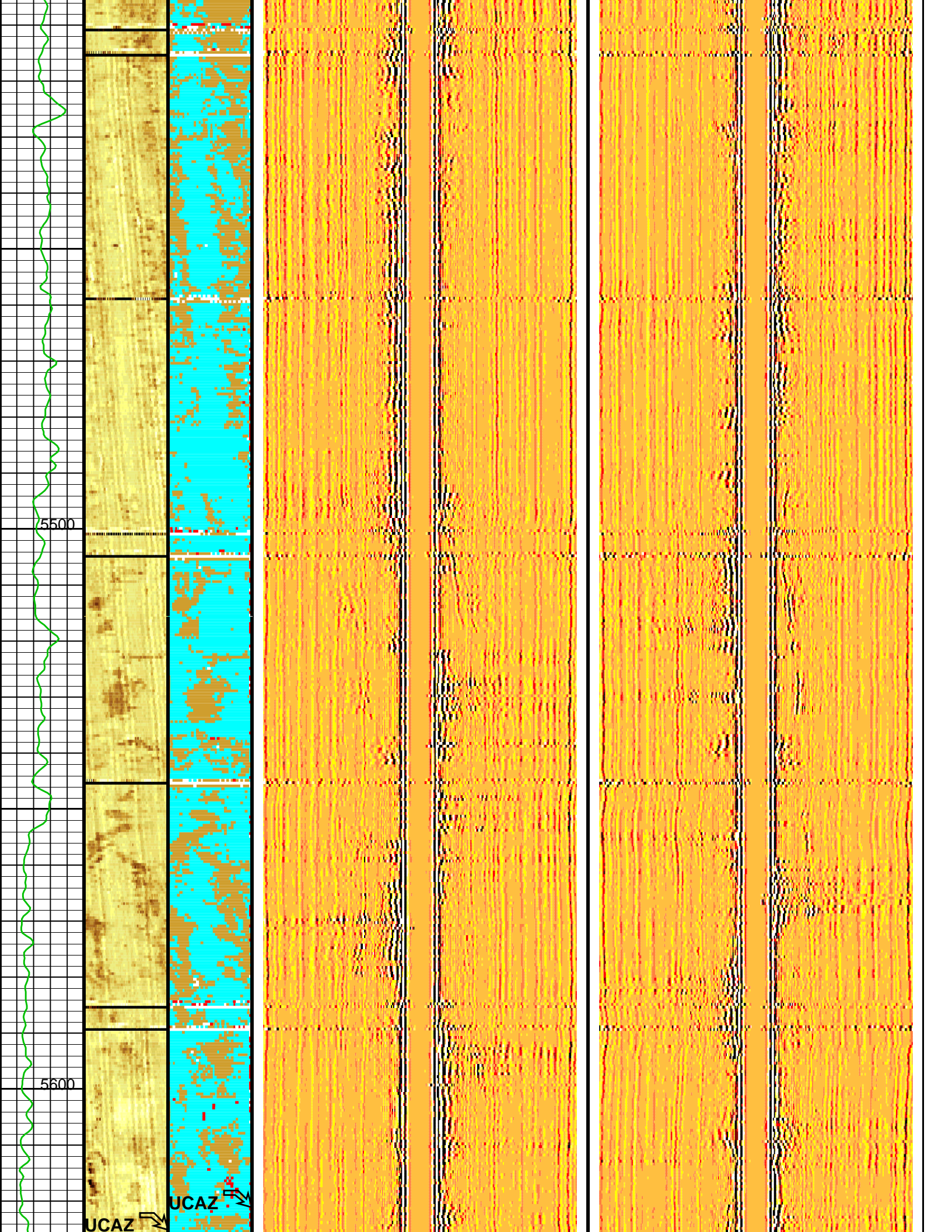


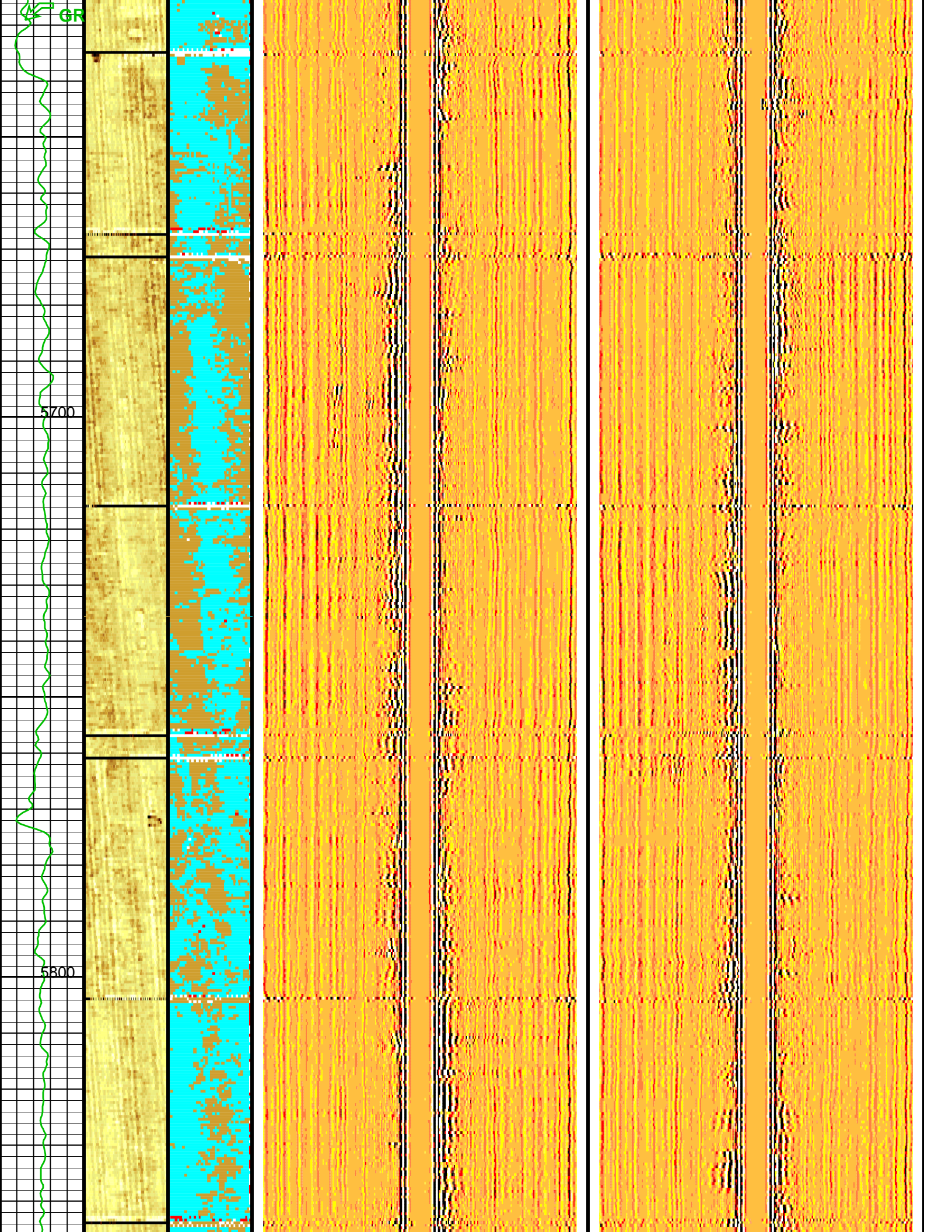


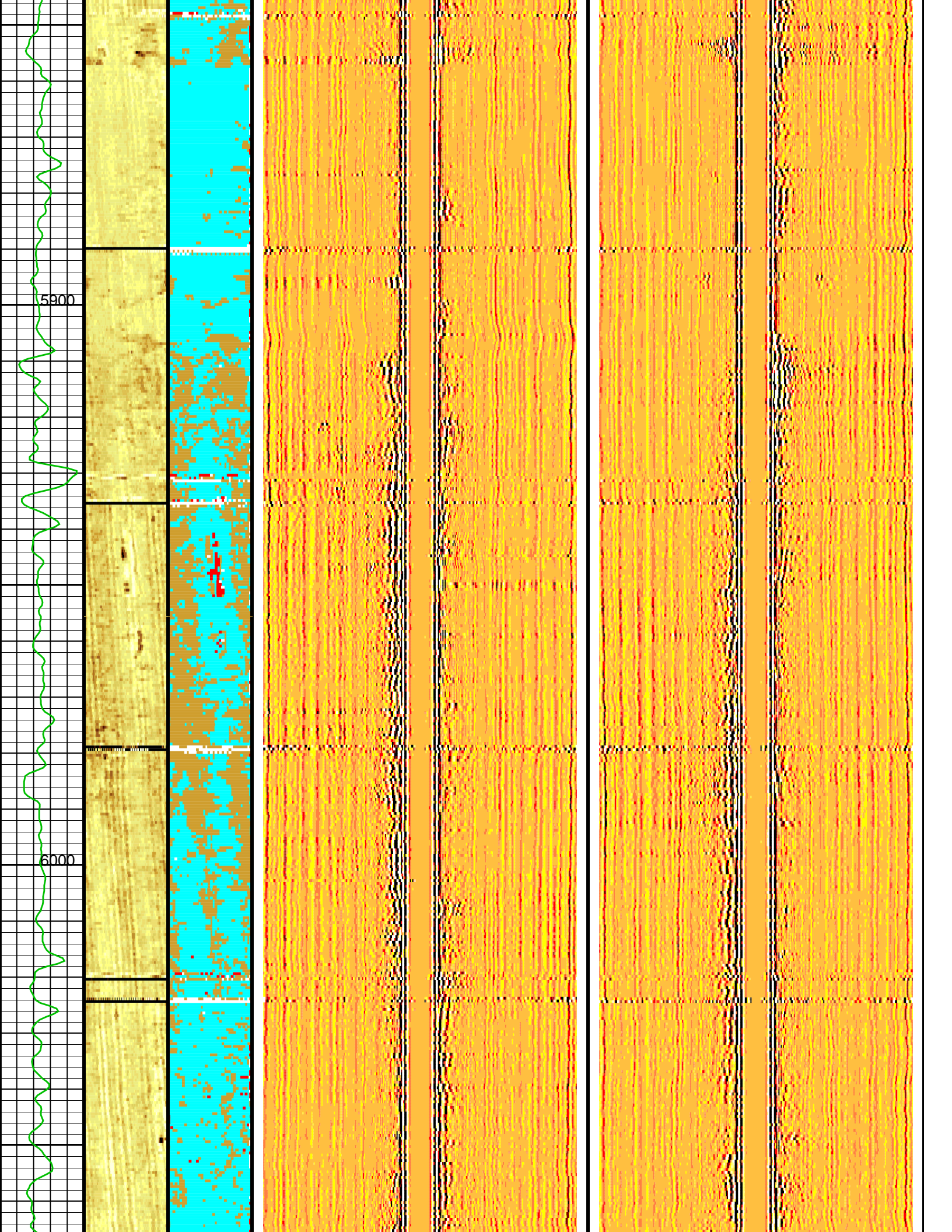


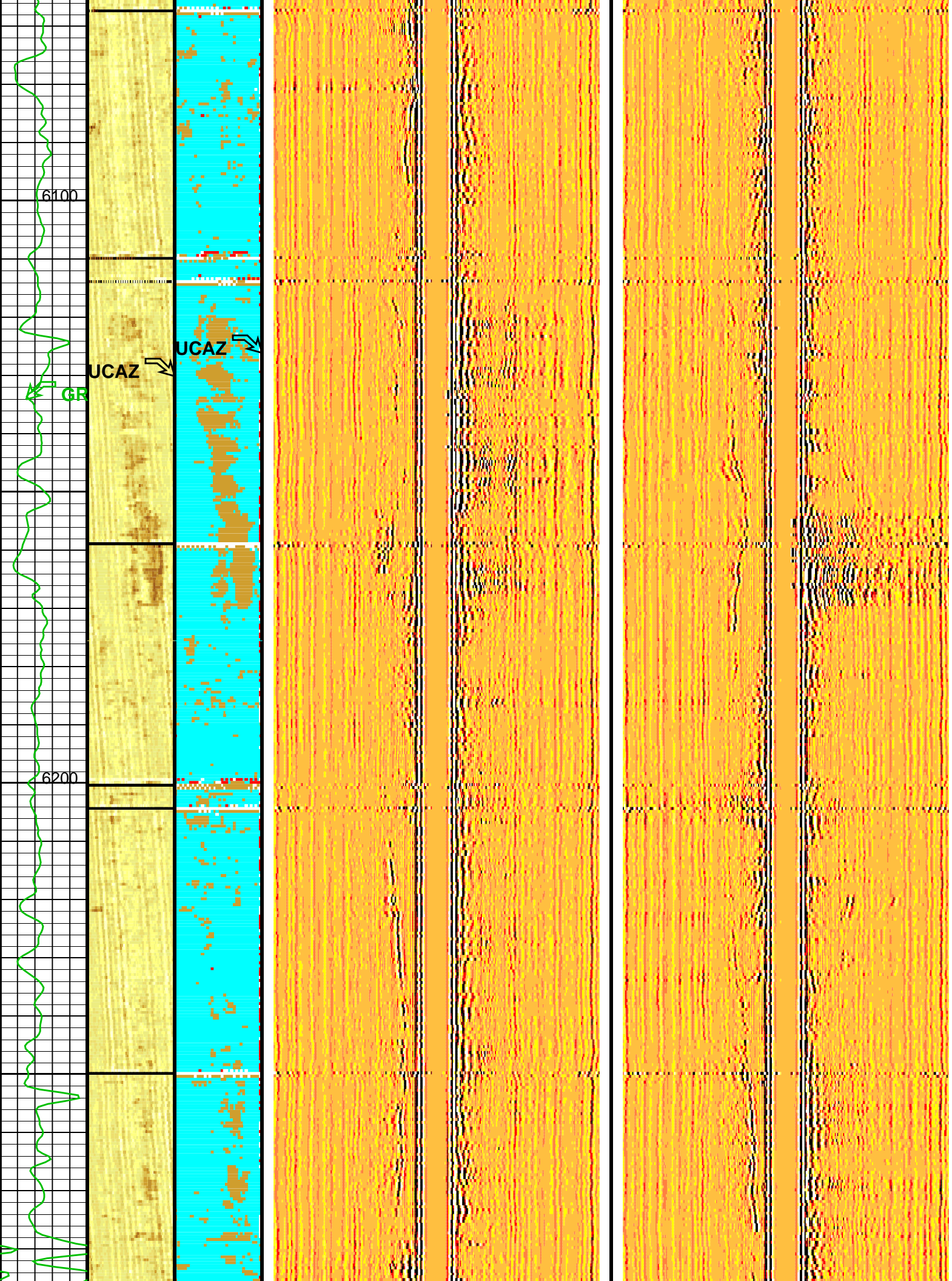


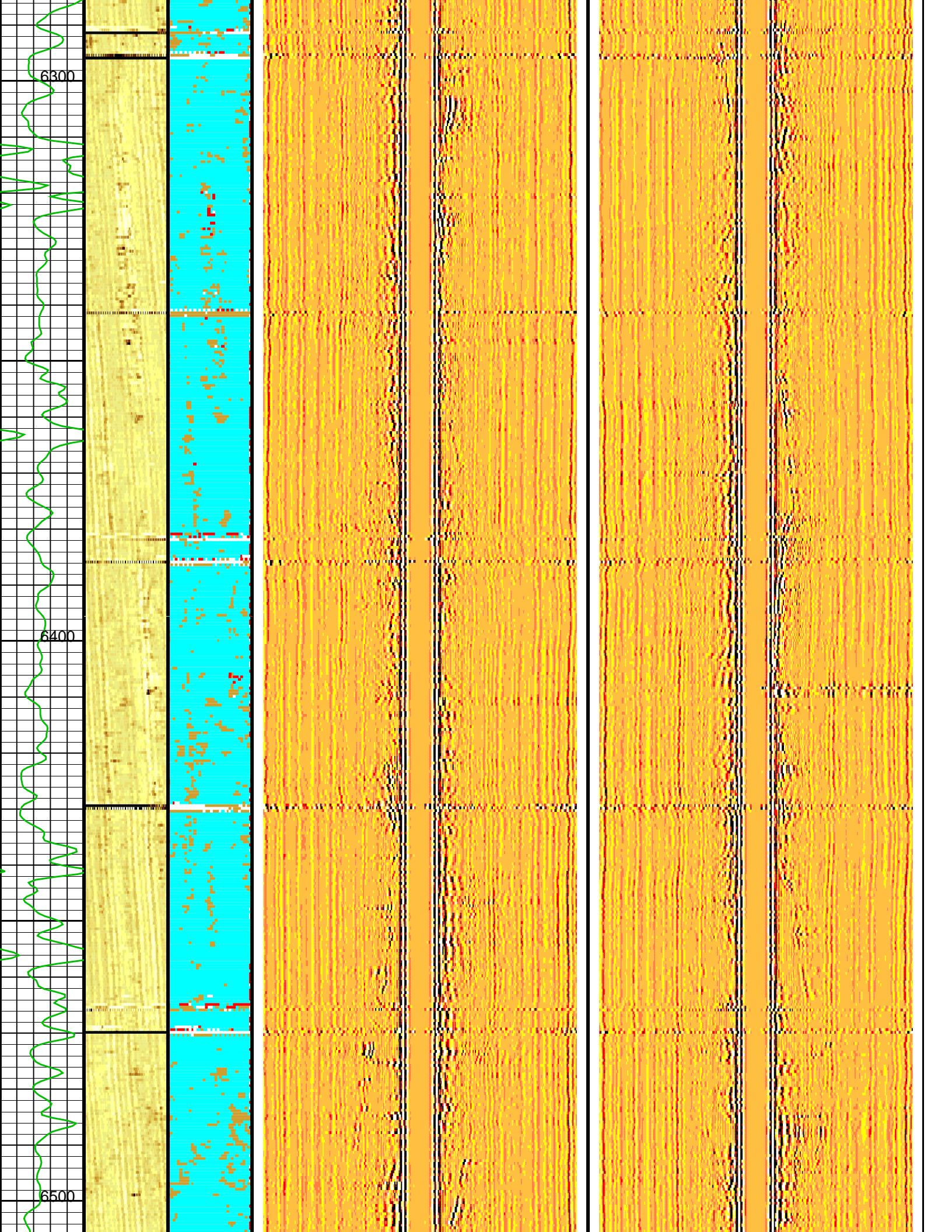


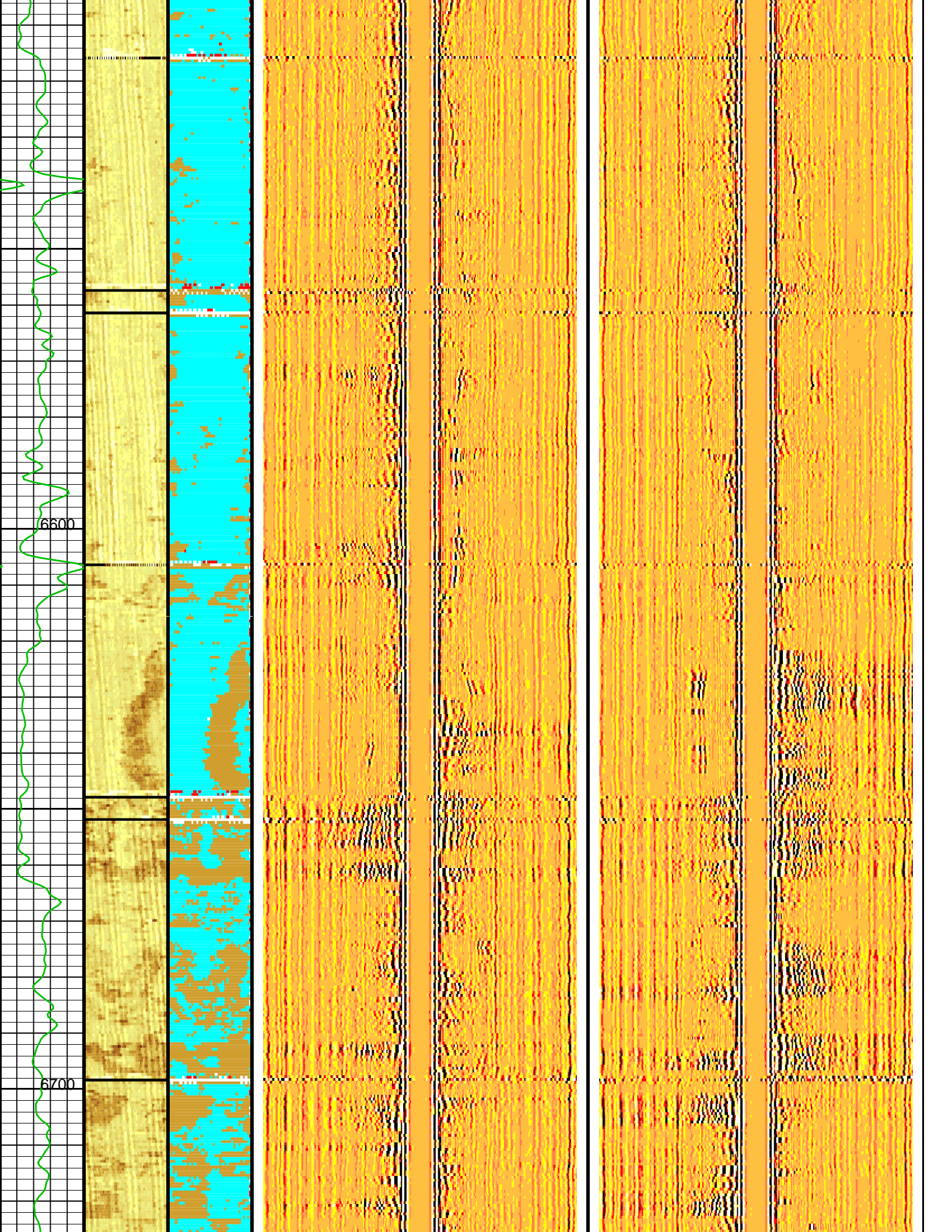


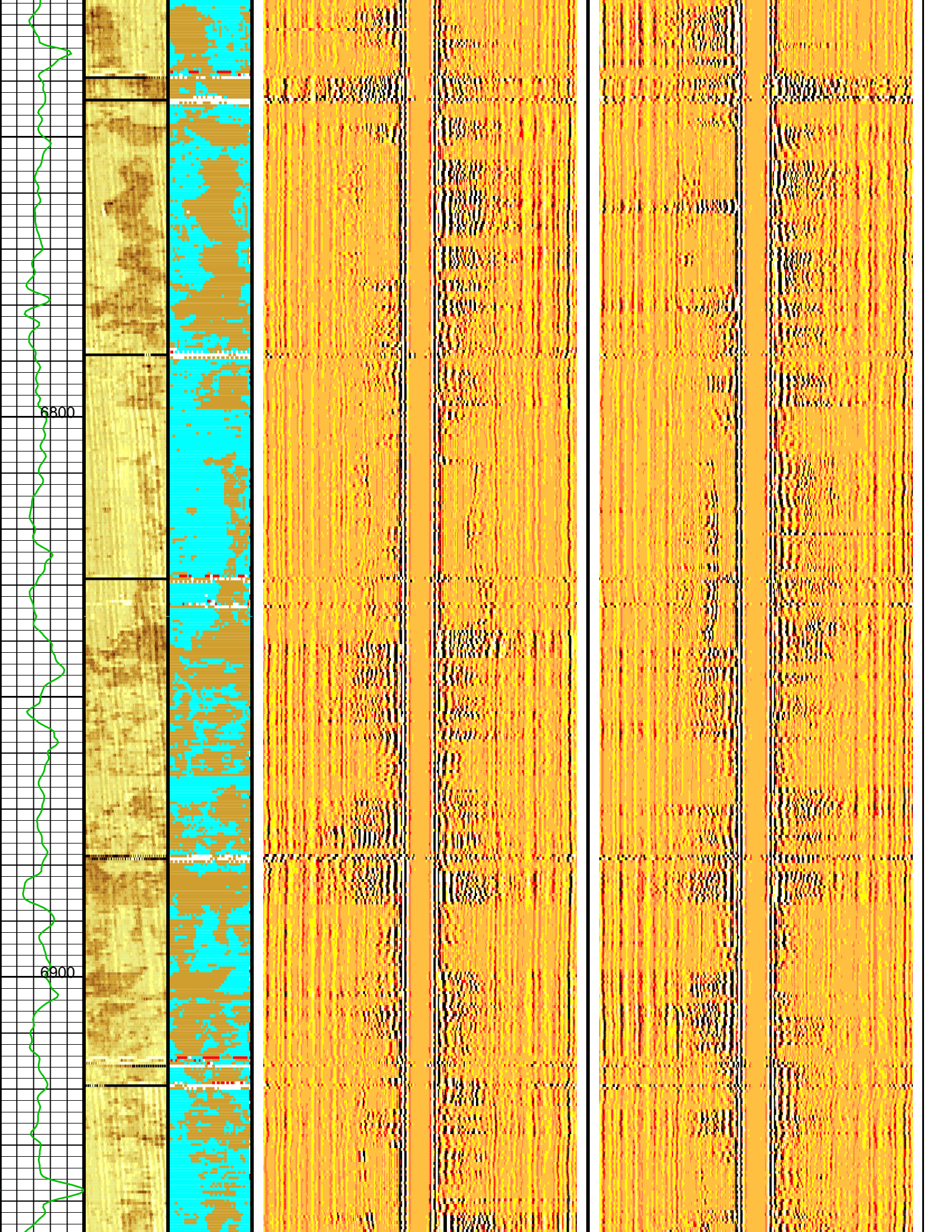


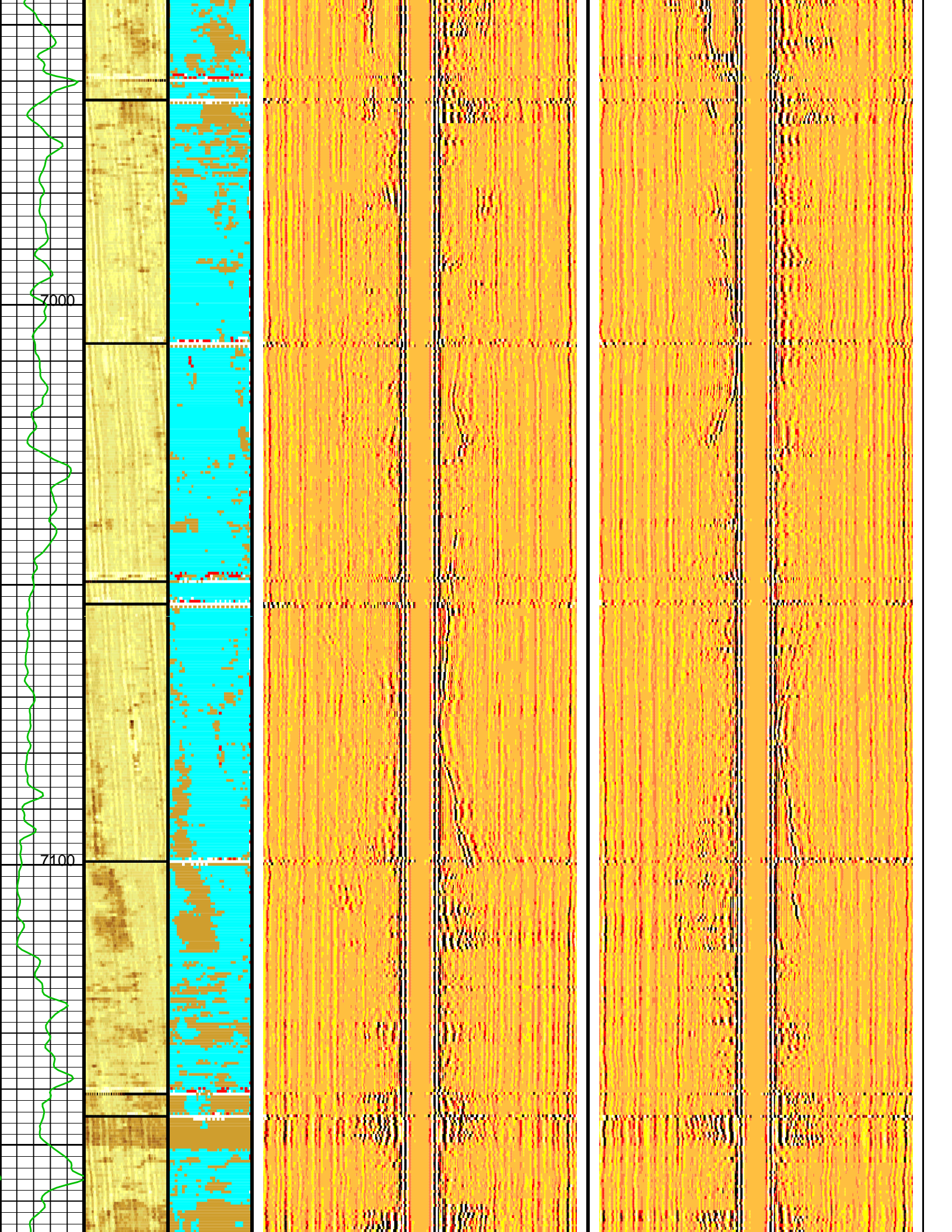


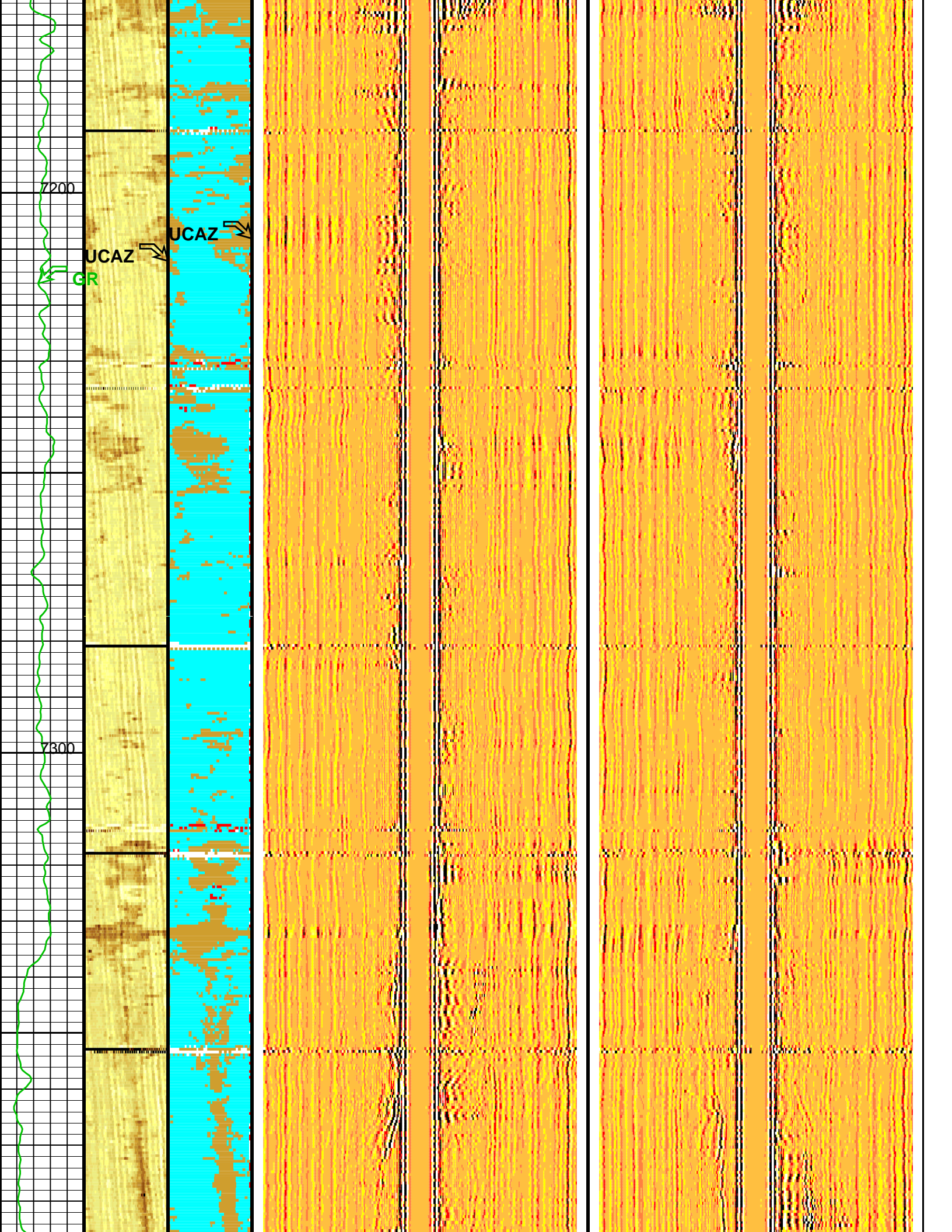


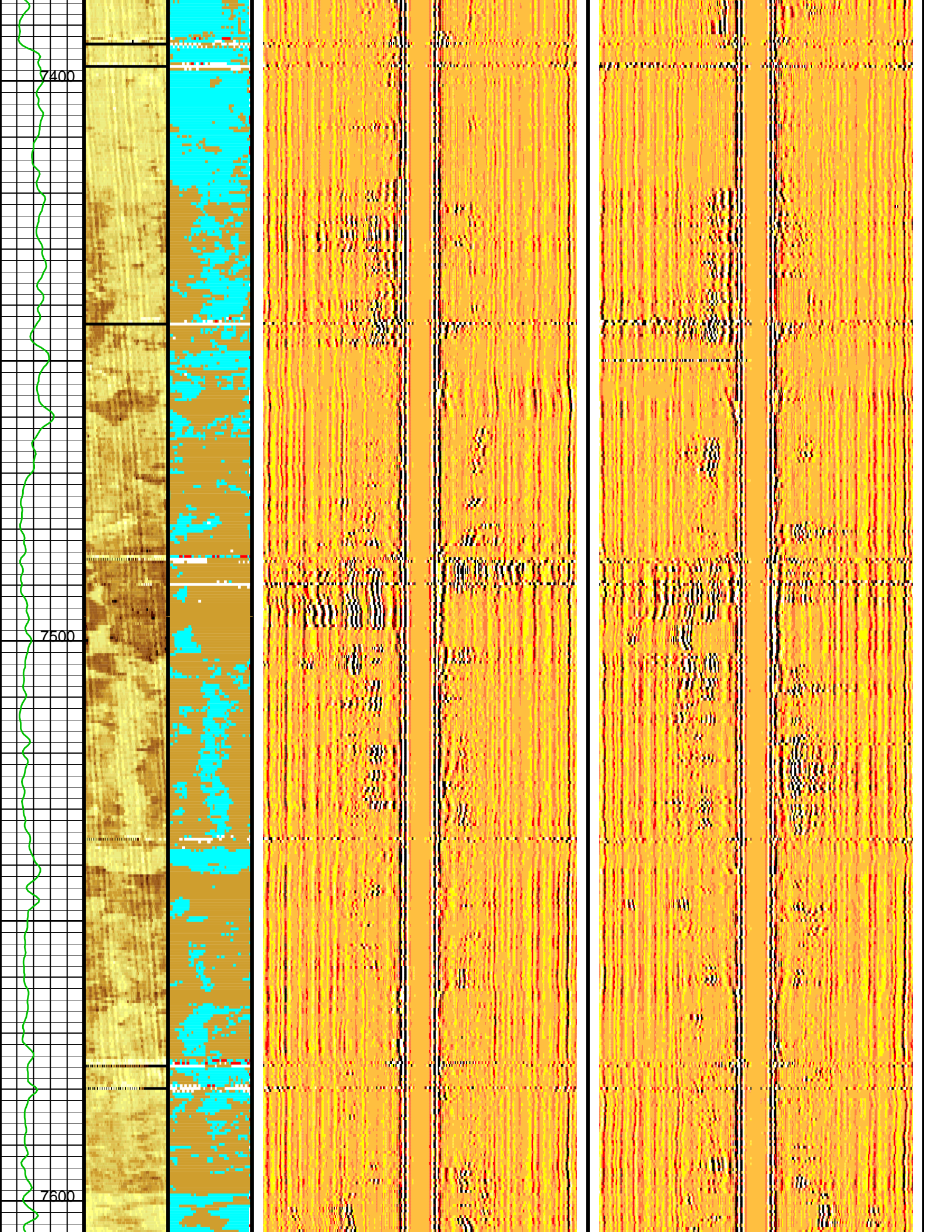


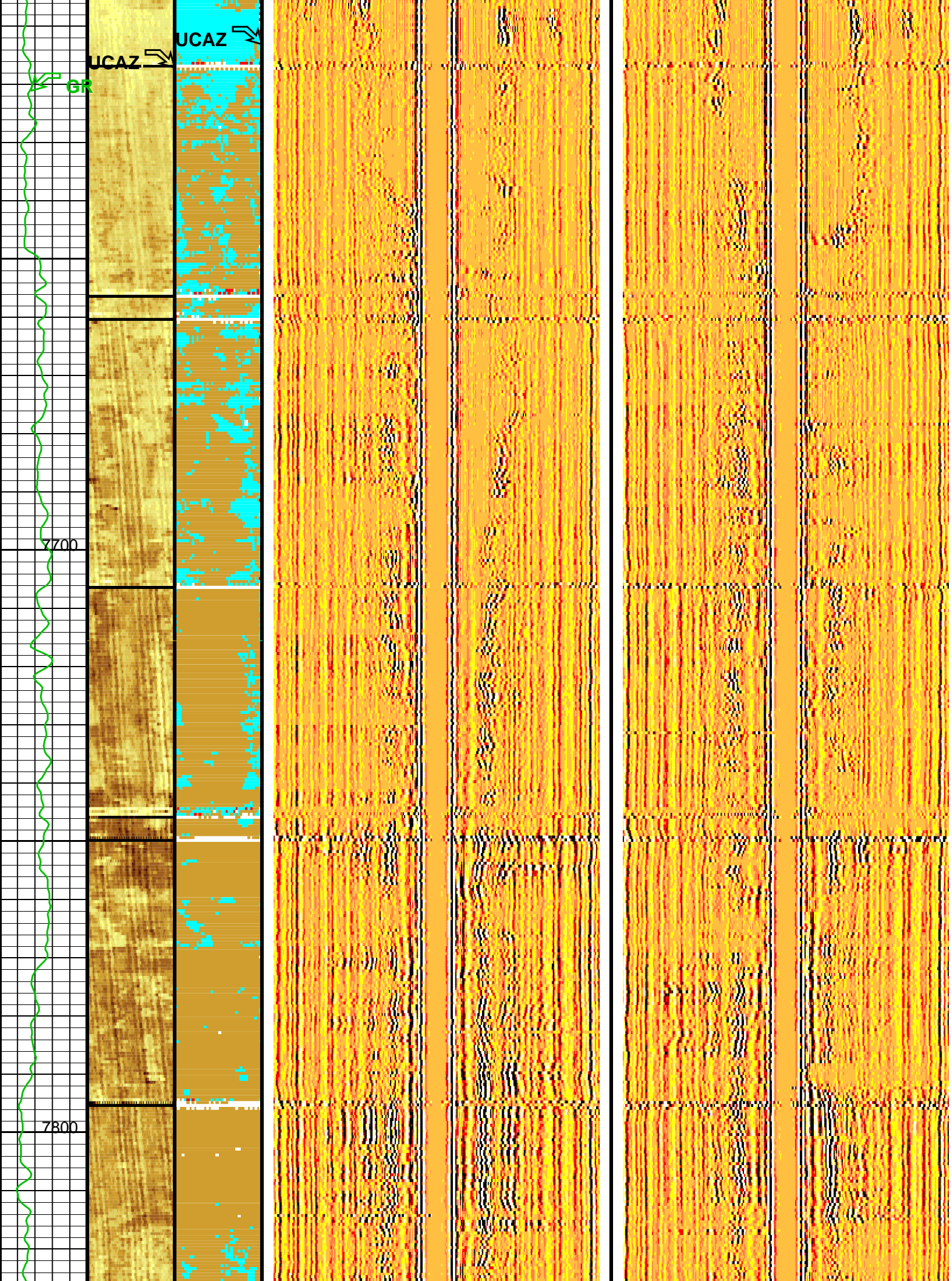


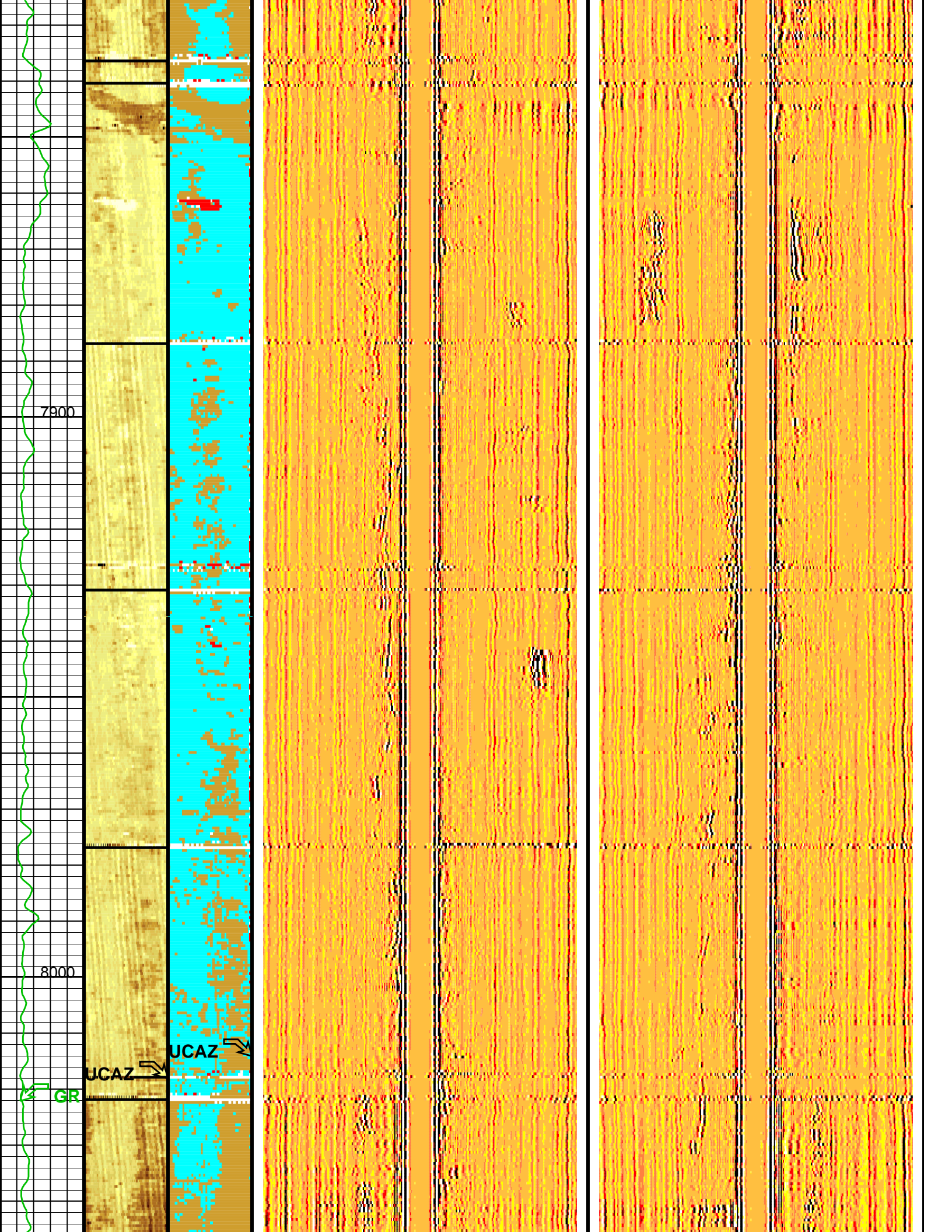


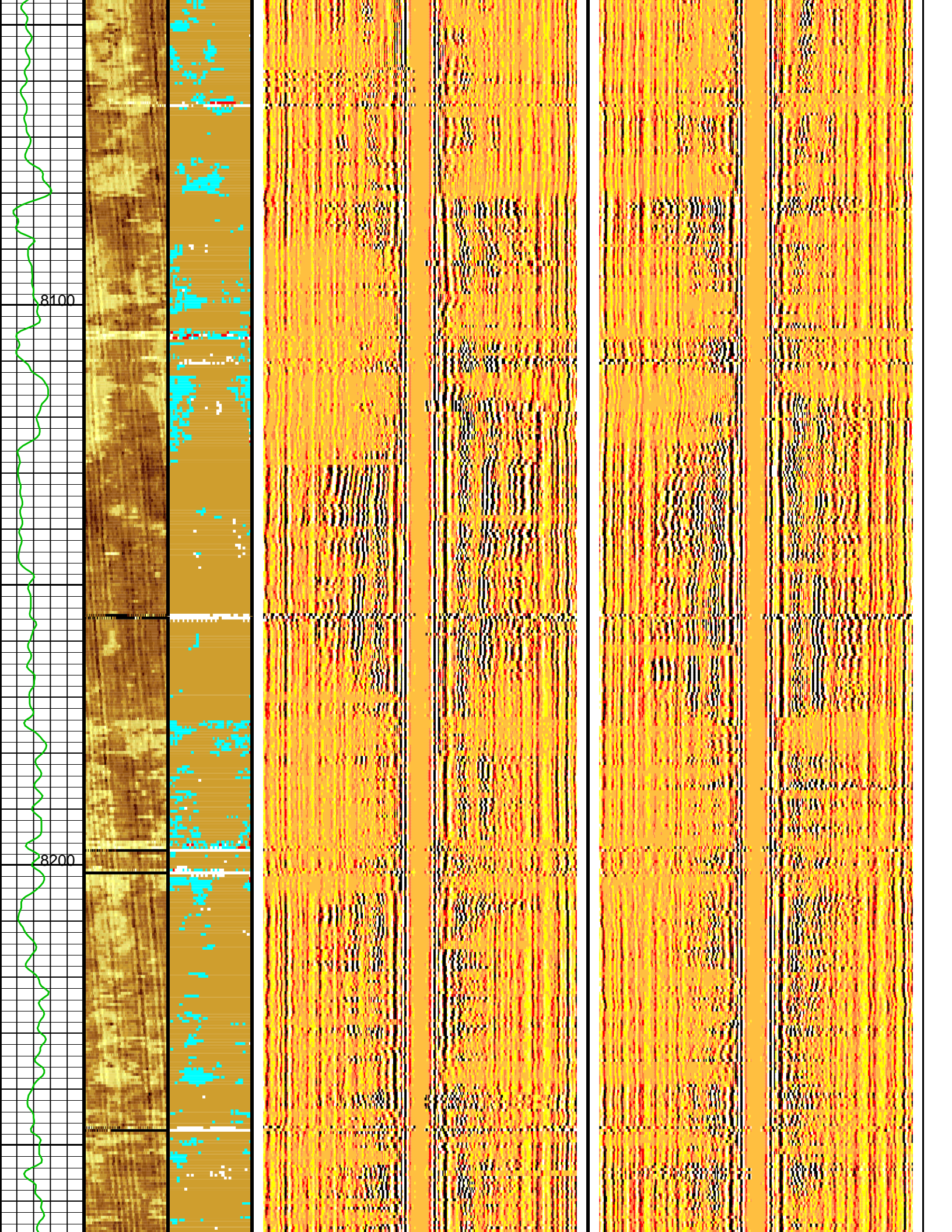


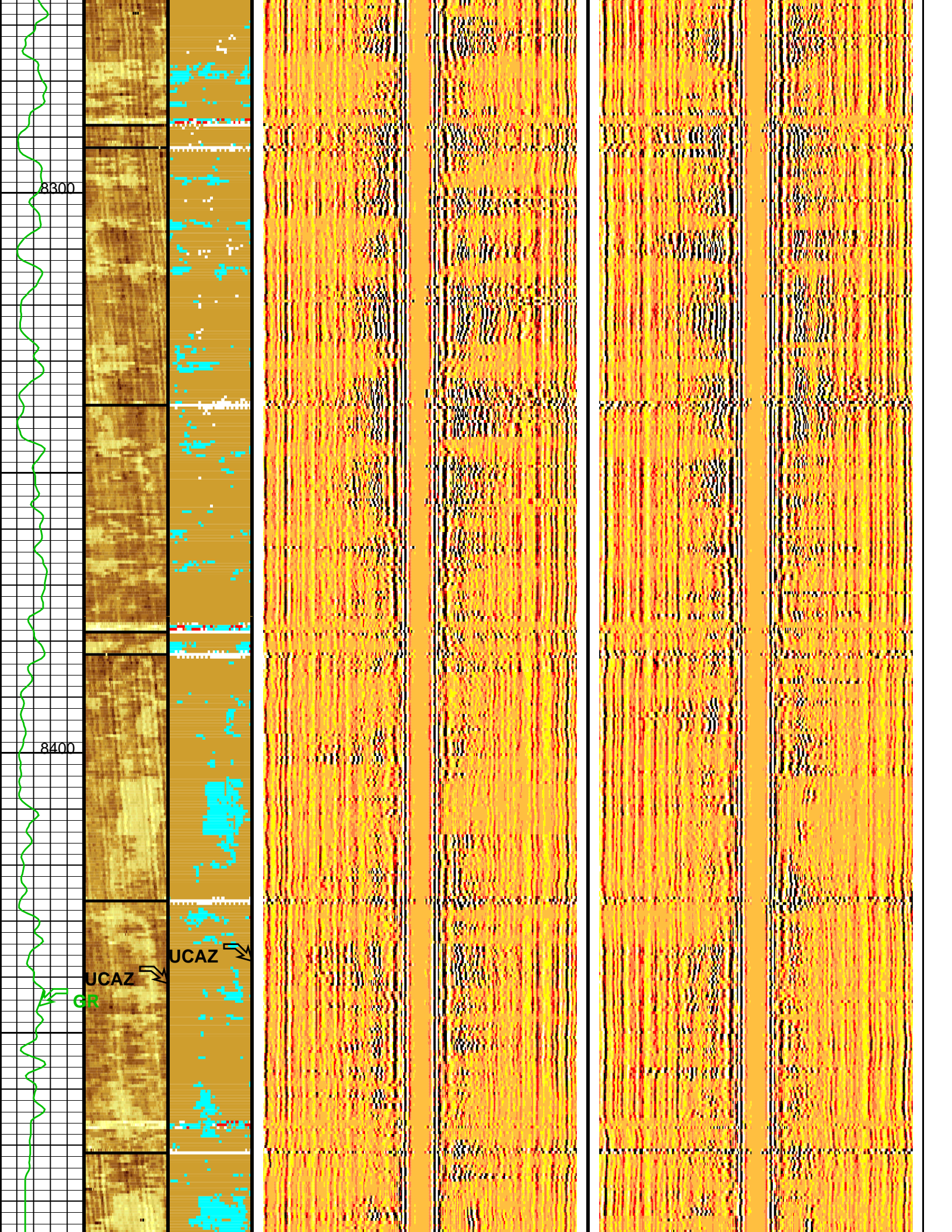


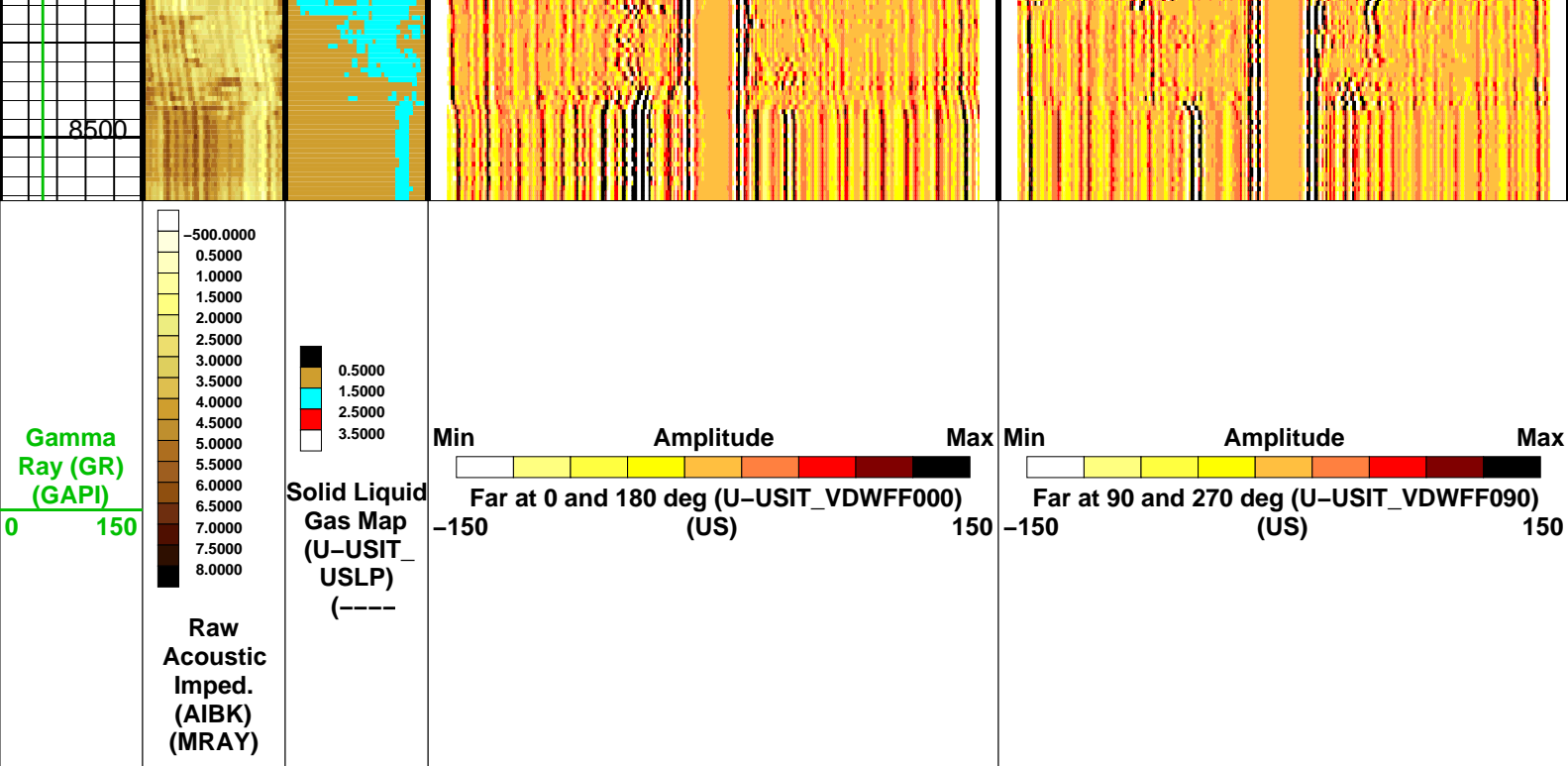










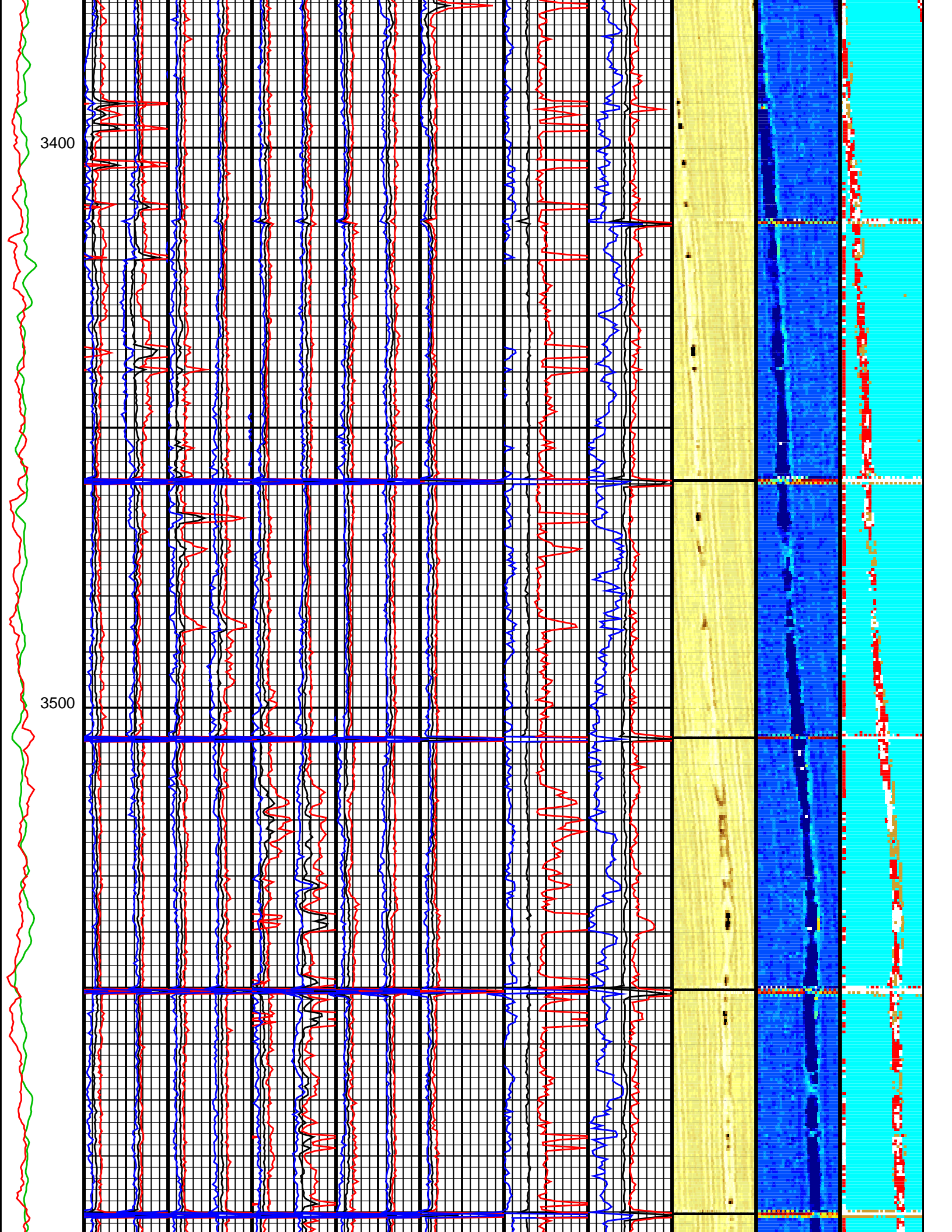


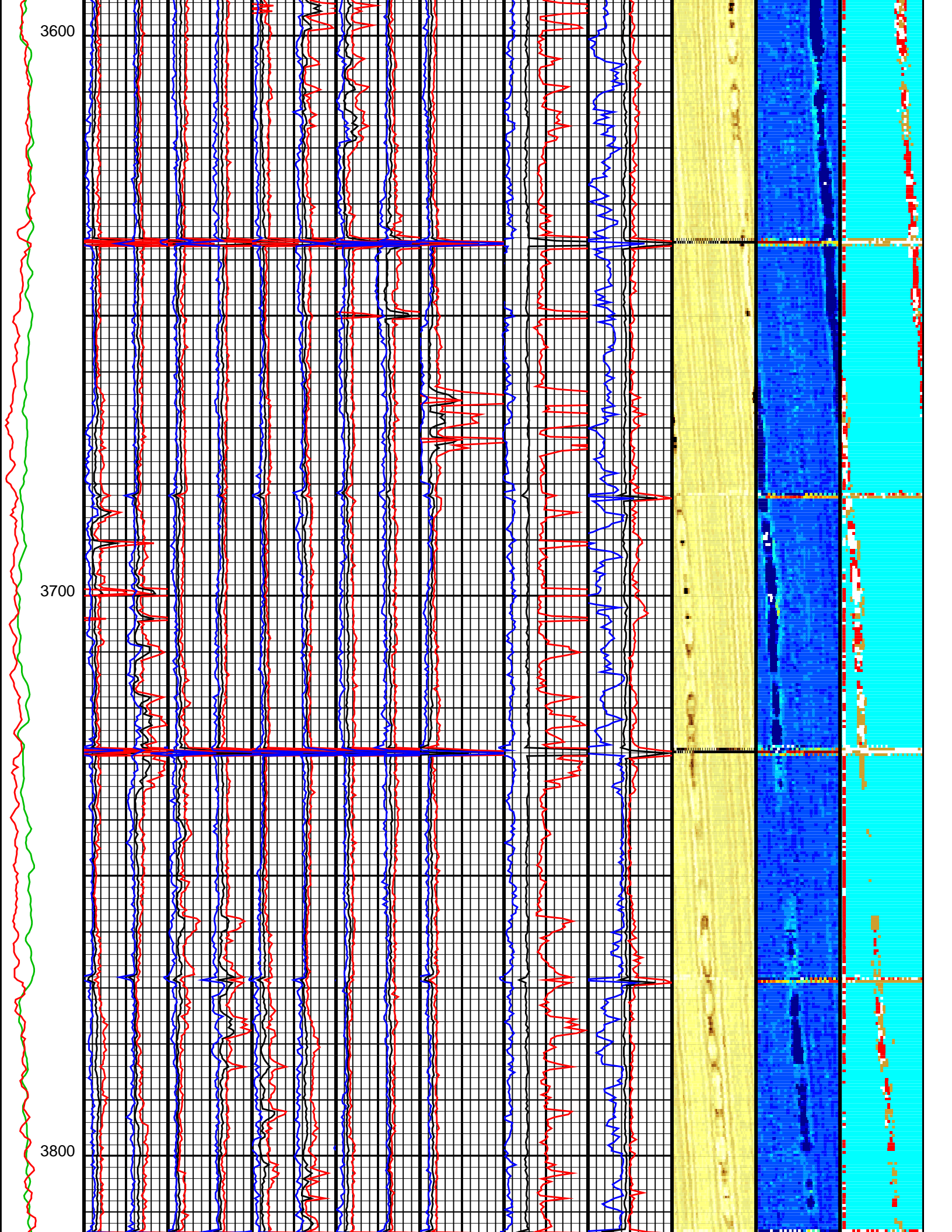
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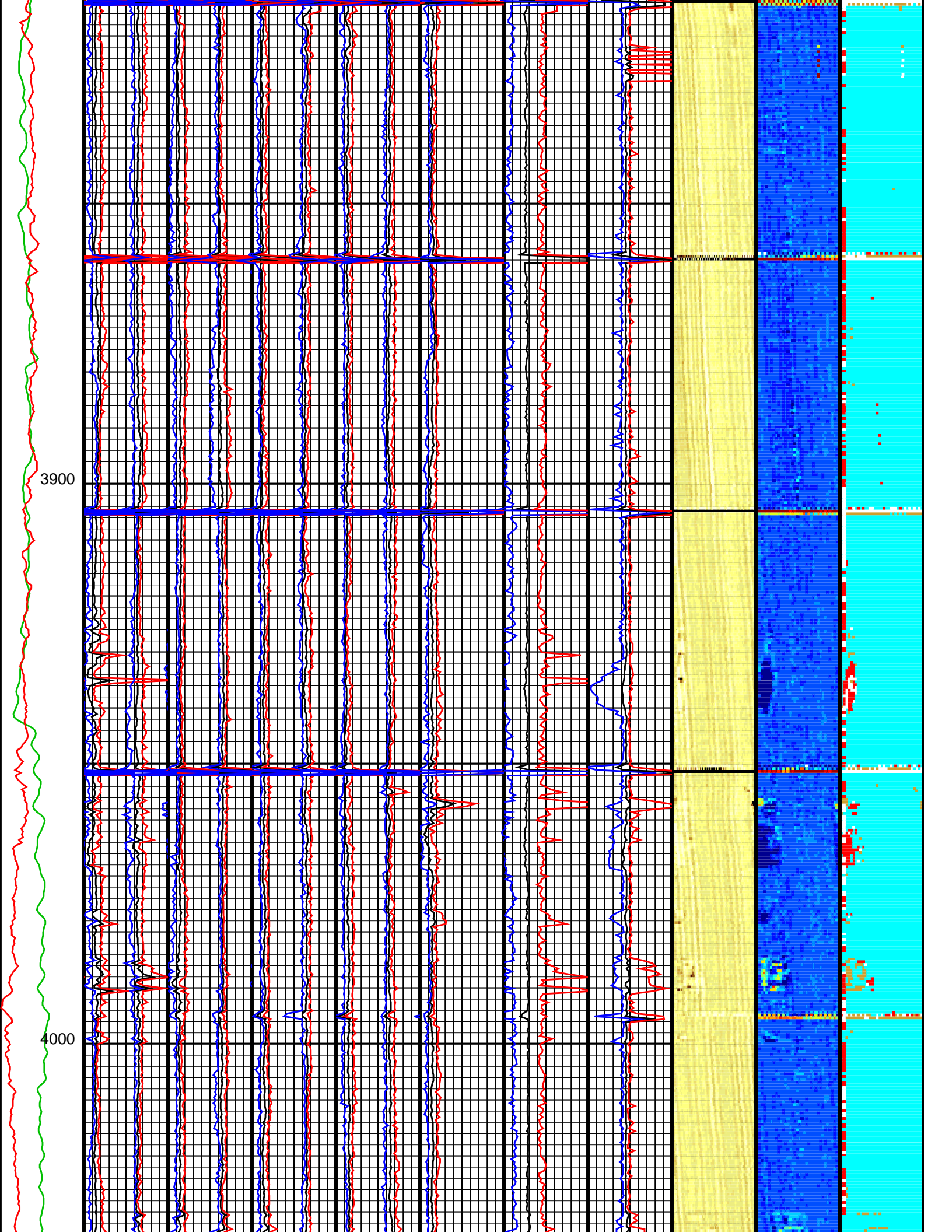
DLIS Name	Description	Value
USIT-D: Ultrasonic Imaging - D		
AGMN	Minimum Gain of Cartridge	-4 DB
AGMX	Maximum Gain of Cartridge	20 DB
BERJ	Bad Echo Rejection	ON
CDIA	Casing Outer Diameter	7 IN
CSDE	Casing Density	486.94 LBCF
CSID	Casing Inner Diameter	6.276 IN
DFVL	Default Fluid Velocity	203 US/F
DOT	Diameter of Transducer Sensor	2.874 IN
EMXV	EMEX Voltage	120 V
FSOD	Fluid Slowness Fits Casing Outer Diameter	2_UFSL_N_UFAI
IMAR	Image Rotation	OFF
MW	Mud Weight	9.4 LB/G
RCOD	Reference Calibrator Outer Diameter	7 IN
RCSO	Reference Calibrator Standoff	1.1811 IN
RCTH	Reference Calibrator Thickness	0.2952 IN
TCUB	T^3 Processing Level	Vax_Loop
THDH	Maximum Search Thickness (percentage of nominal)	130
THDL	Minimum Search Thickness (percentage of nominal)	70
THDP	Thickness Detection Policy	Fundamental
THNO	Nominal Thickness of Casing	0.362 IN
U-USIT_CENT	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	10.75 IN
U-USIT_OCSH	USIT Outer Casing Shoe	4318 FT
U-USIT_OCWE	USIT Outer Casing Weight	45 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	-14 DB/M
U-USIT_UIAP	USIT IBC Answer Product Enabled	SolidLiquidGasMap
U-USIT_UIST	Ultrasonic IBC Sonde Type	Sub_ibcs_B
U-USIT_UTAN	USIT Transducer Angles	33_DEG
UMAO	USIT Measurement Angular Offset	-10 DEG
USTO	Ultrasonic Time Offset	-2 US
USUB	Ultrasonic Subassembly Identifier	Sub_7_inch
USWK	Ultrasonic Working Mode	5DEG_6IN_136UNF_LF
VCAS	Ultrasonic Transversal Velocity in Casing	51.4 US/F
WLEN	T^3 Processing Length	21.7078 US
ZCAS	Acoustic Impedance of Casing	46.25 MRAY
ZINI	Initial Estimate of Cement Impedance	-1 MRAY
ZMUD	Acoustic Impedance of Mud	2 MRAY

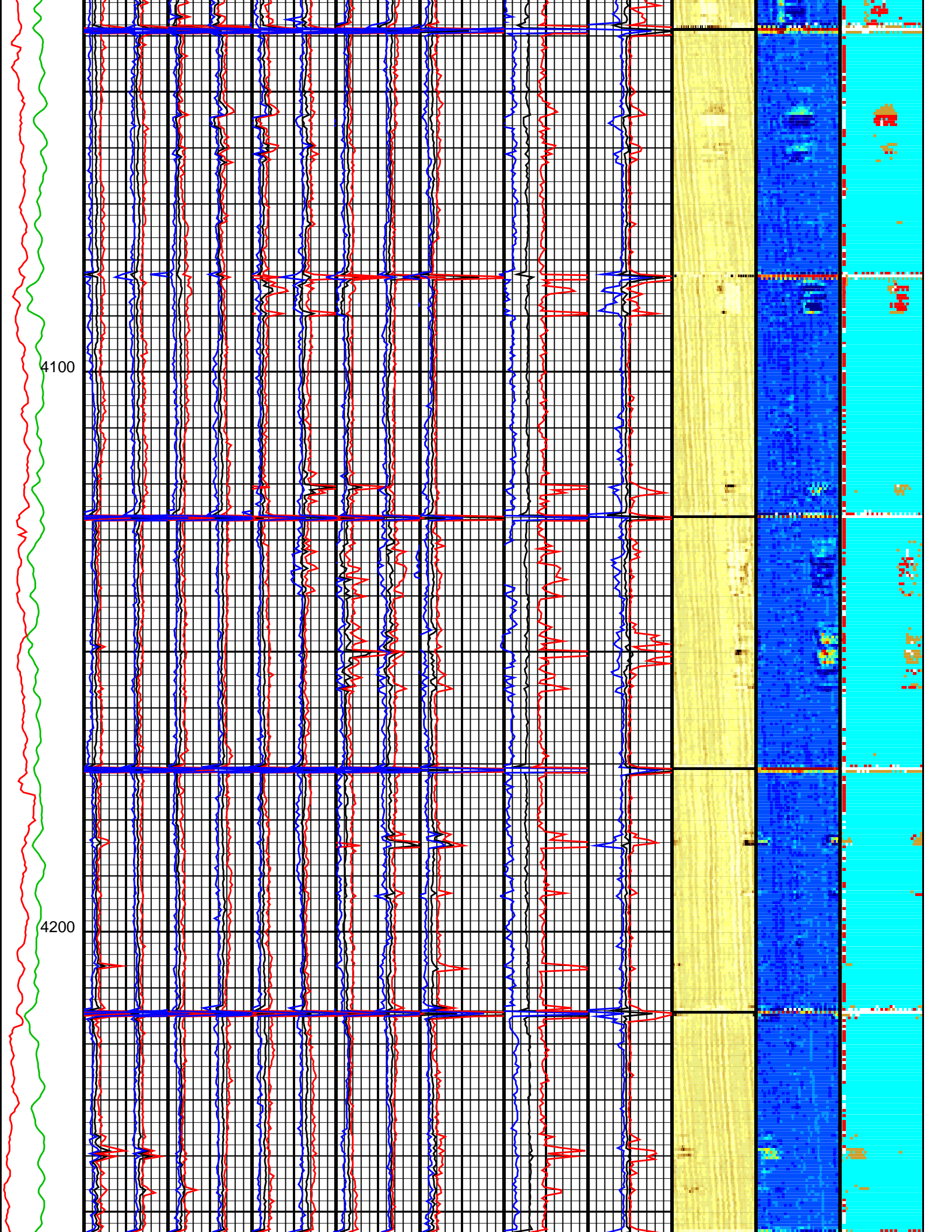
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
System and Miscellaneous			
BS	Bit Size	9.875	IN
CWEI	Casing Weight	26.00	LB/F
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	NORMAL	
Format: USI_IBC_VDL_WIDE		Vertical Scale: 5" per 100'	
Graphics File Created: 11-Nov-2009 03:36			
OP System Version: 17C0-154			
USIT-D	SRPC-3779-Q1_2009_OP17_b	HILTH-FTB	SRPC-3779-Q1_2009_OP17_b
DTC-H	17C0-154		
Input DLIS Files			
DEFAULT	SPLICE_USI_TLD_MCFL_017	FN:1	PRODUCER 11-Nov-2009 03:26 8506.5 FT 201.5 FT
Output DLIS Files			
DEFAULT	USI_TLD_MCFL_CNL_019PUP	FN:29	PRODUCER 11-Nov-2009 03:36
BACKUP	USI_TLD_MCFL_CNL_019PUP	FN:30	PRODUCER 11-Nov-2009 03:37
<div><div>Schlumberger</div><div>GOODWIN 5 INCH</div></div>			
MAXIS Field Log			
Company: EXXONMOBIL PRODUCTION CO			
Well: PCU 197-34B10			
Input DLIS Files			
DEFAULT	SPLICE_USI_TLD_MCFL_017	FN:1	PRODUCER 11-Nov-2009 03:26 8506.5 FT 201.5 FT
Output DLIS Files			
DEFAULT	USI_TLD_MCFL_CNL_019PUP	FN:29	PRODUCER 11-Nov-2009 03:36
BACKUP	USI_TLD_MCFL_CNL_019PUP	FN:30	PRODUCER 11-Nov-2009 03:37
OP System Version: 17C0-154			
USIT-D	SRPC-3779-Q1_2009_OP17_b	HILTH-FTB	SRPC-3779-Q1_2009_OP17_b
DTC-H	17C0-154		
	Minimum Acoustic Impedance #2 (MIN_AI2) (MRAY)	Minimum Acoustic Impedance #4 (MIN_AI4) (MRAY)	Minimum Acoustic Impedance #6 (MIN_AI6) (MRAY)
	Minimum Acoustic Impedance #8 (MIN_AI8) (MRAY)		
	-7.5 7.5	-7.5 7.5	-7.5 7.5
	Minimum Acoustic Impedance #1 (MIN_AI1) (MRAY)	Minimum Acoustic Impedance #3 (MIN_AI3) (MRAY)	Minimum Acoustic Impedance #5 (MIN_AI5) (MRAY)
	Minimum Acoustic Impedance #7 (MIN_AI7) (MRAY)		
	0 15	0 15	0 15
	Maximum	Maximum	Maximum

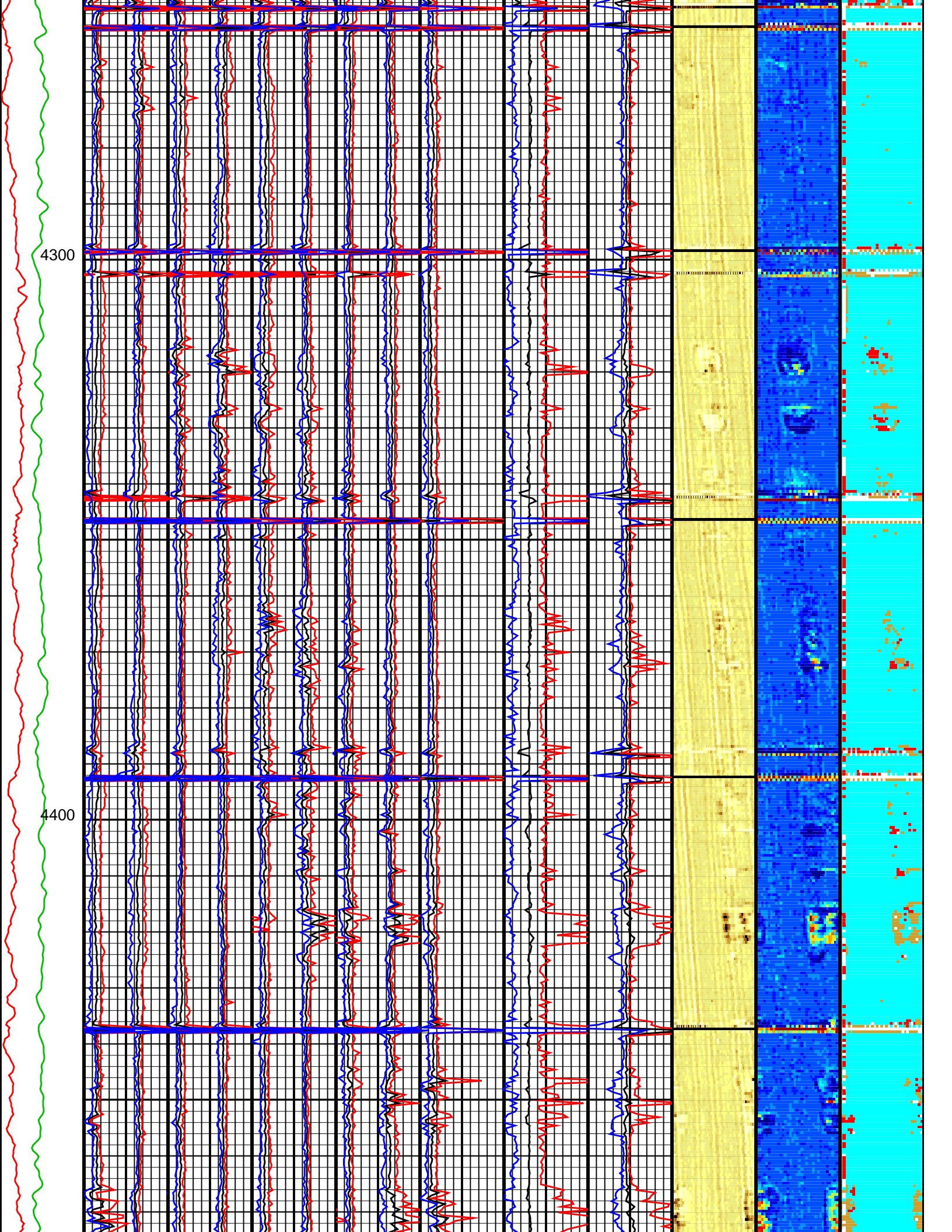
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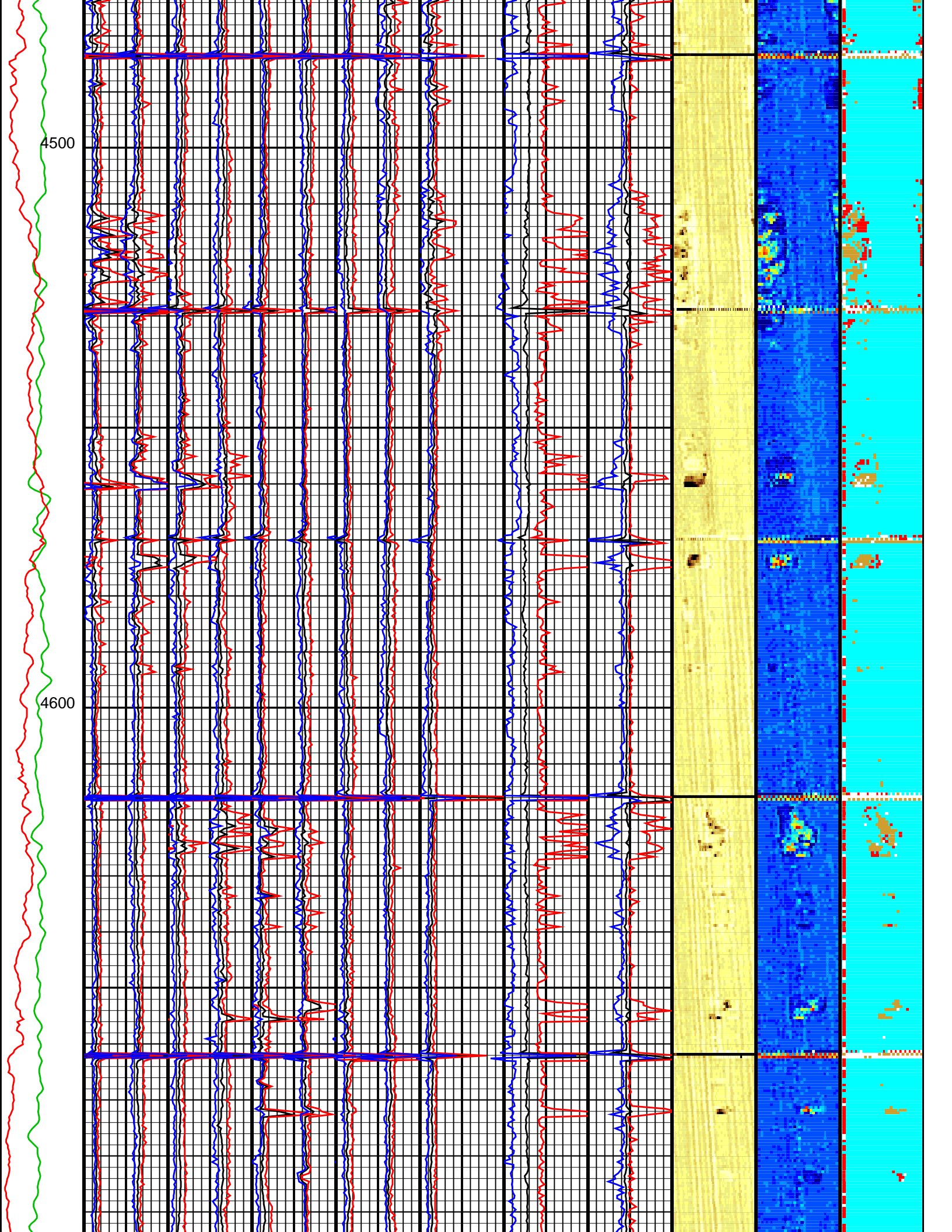


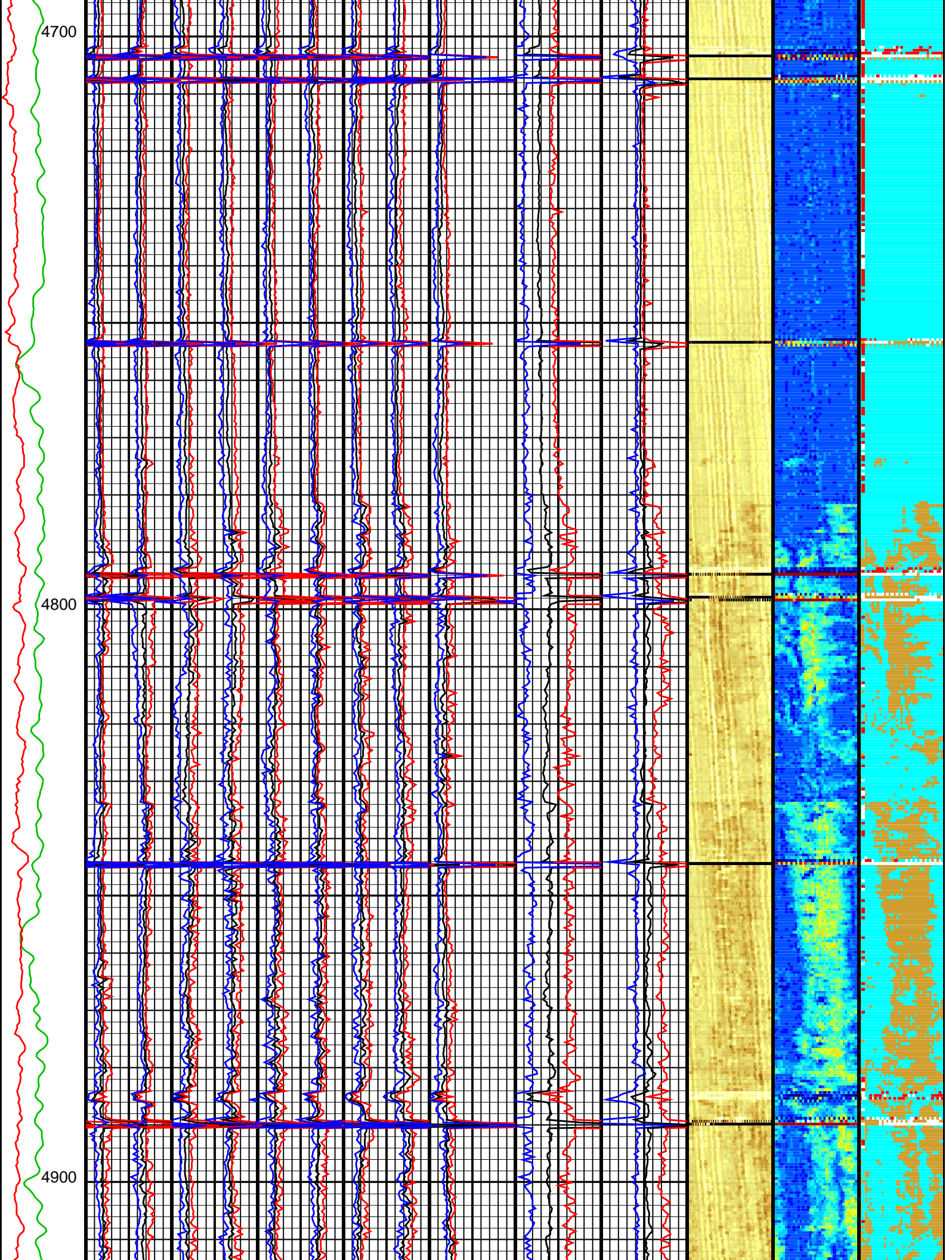


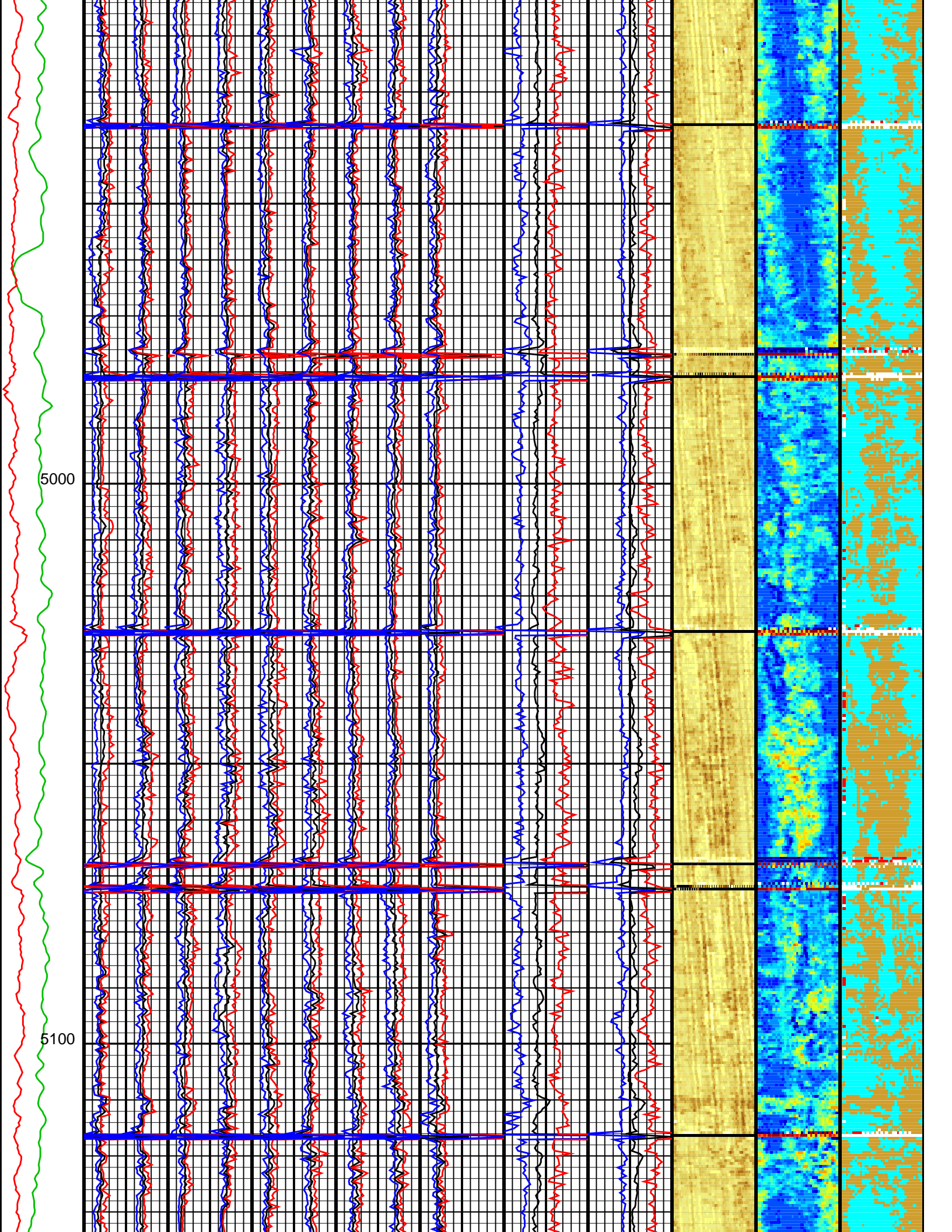


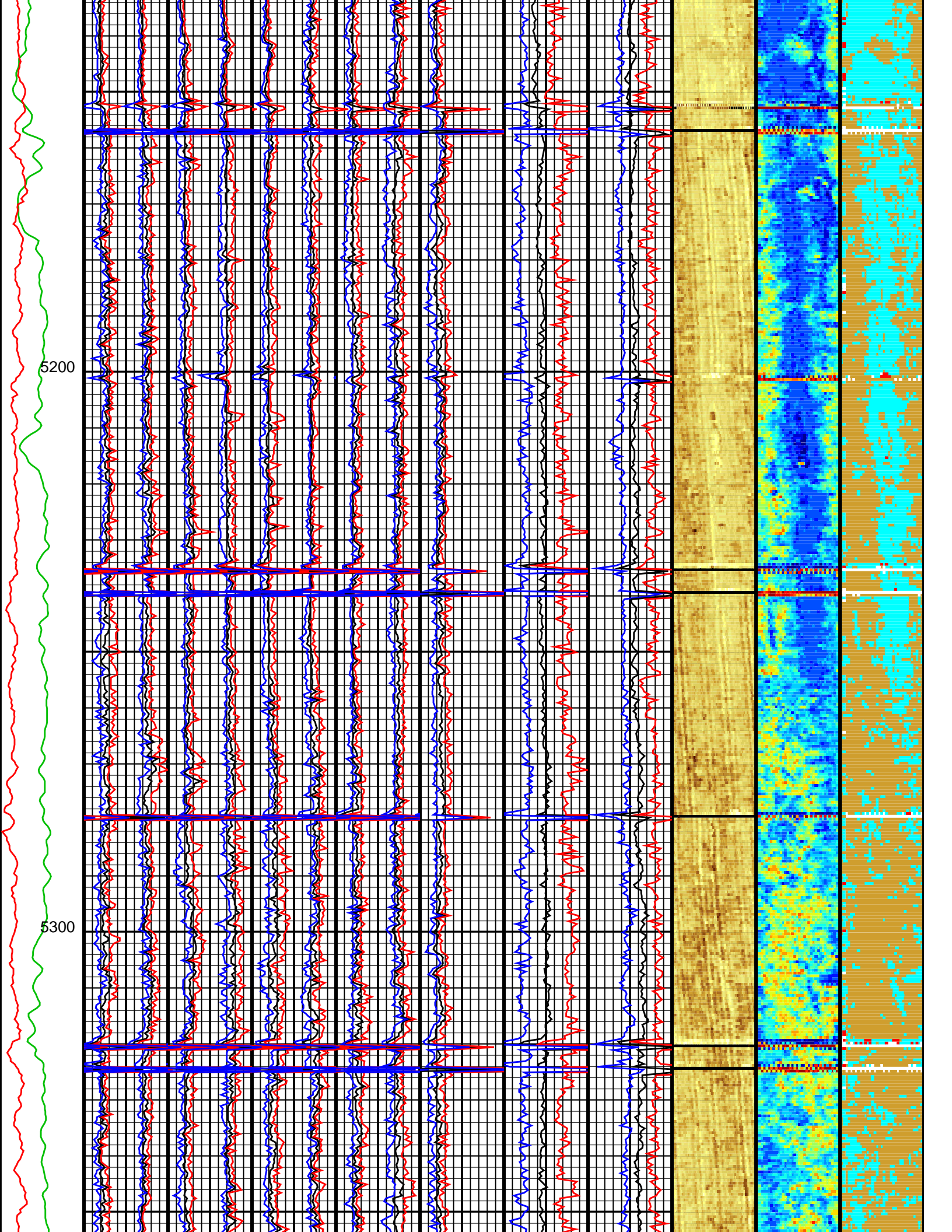


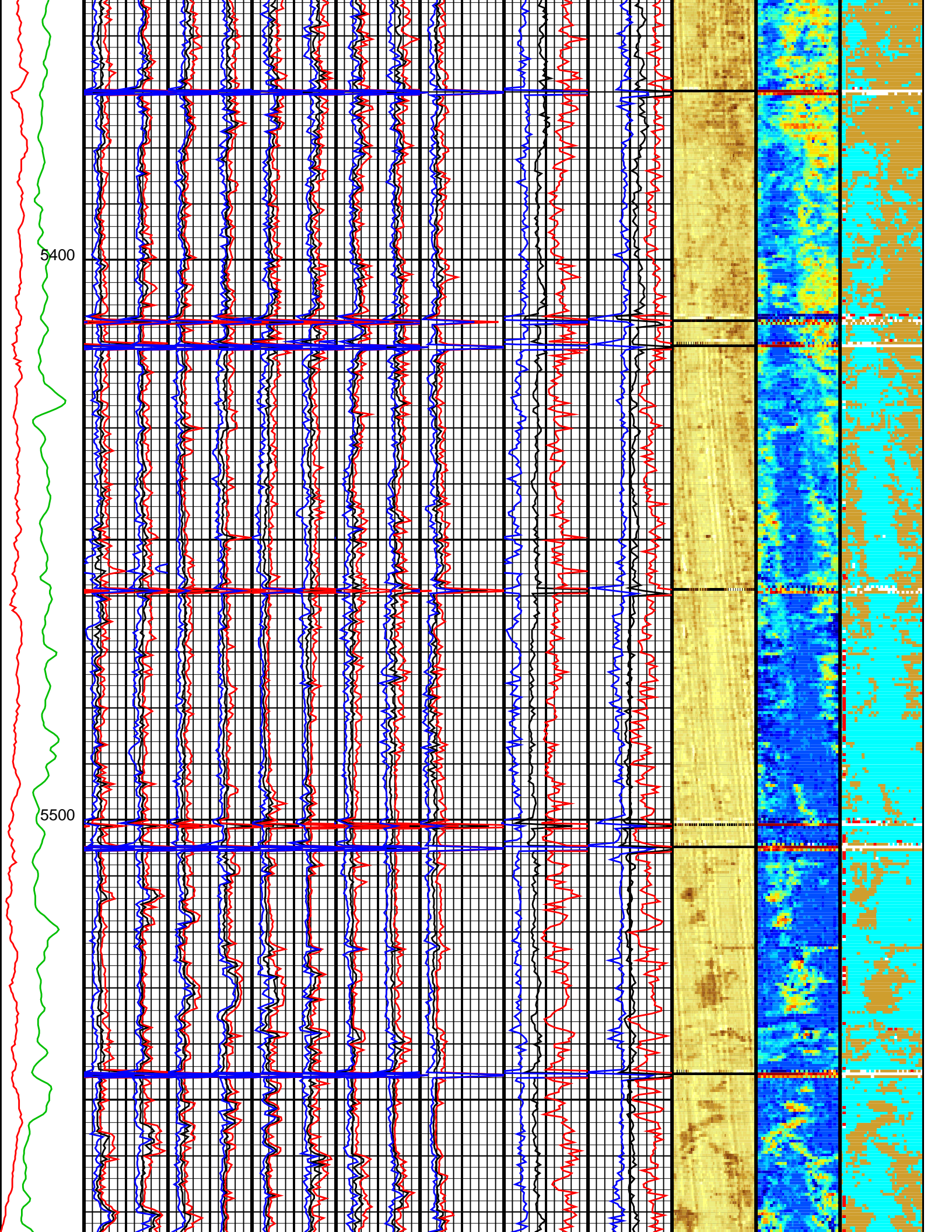


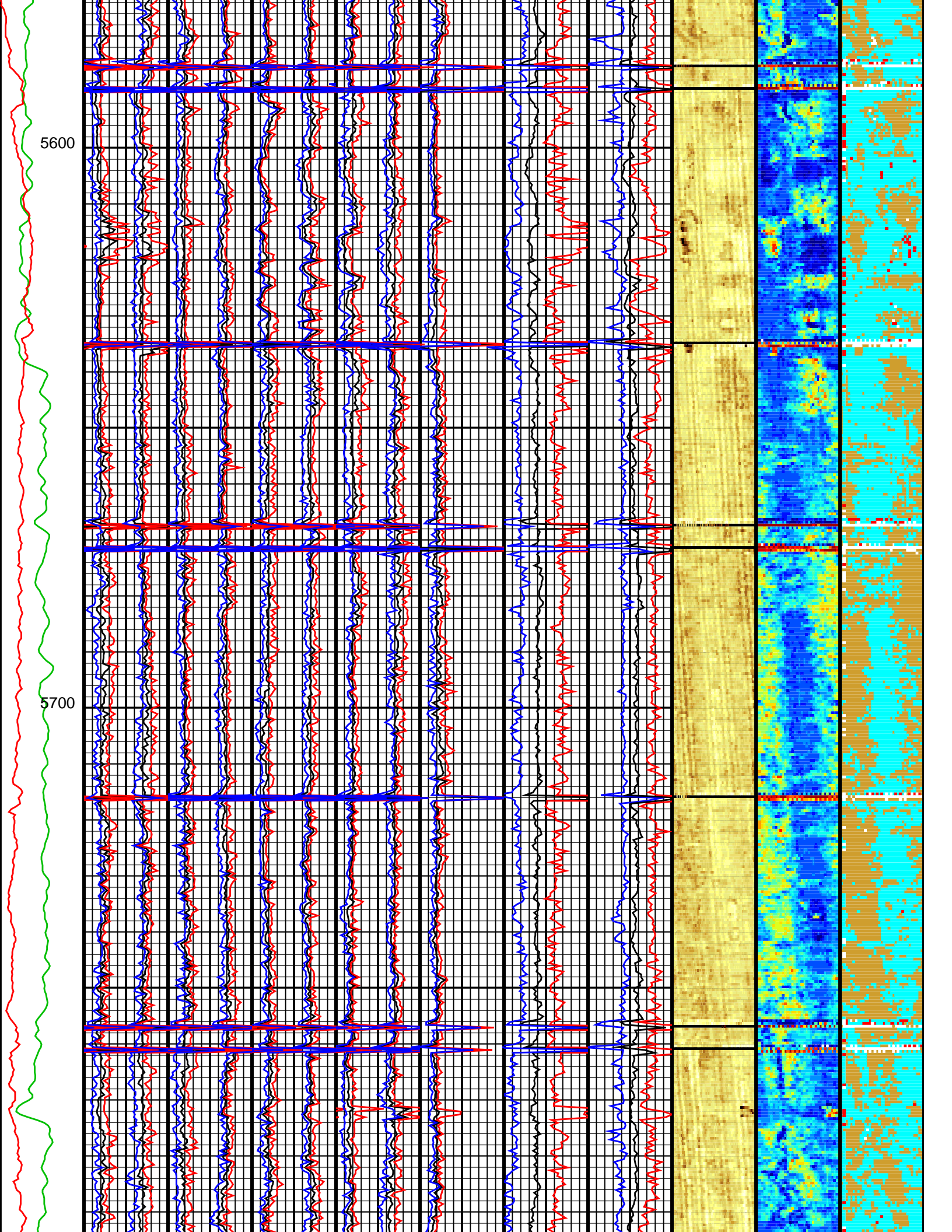


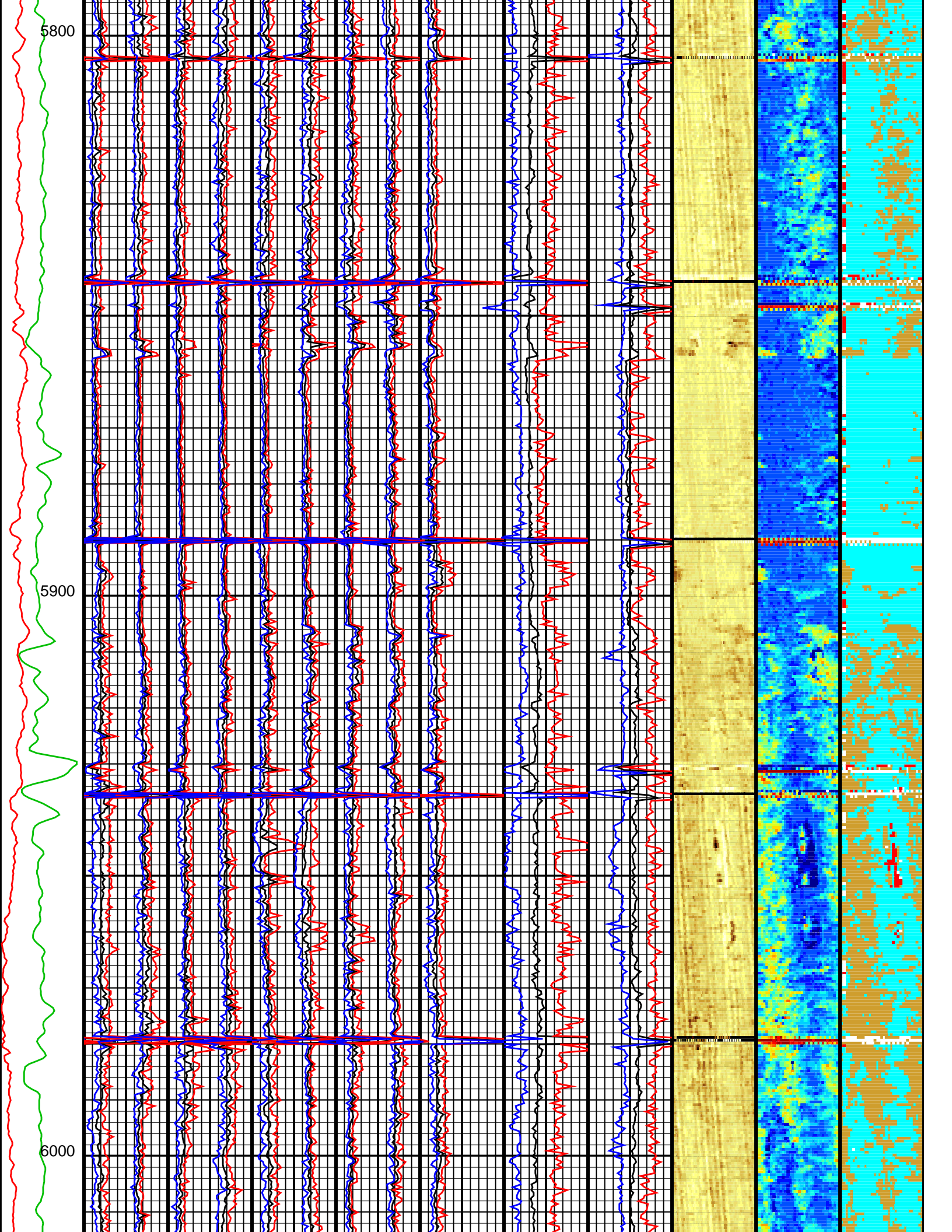


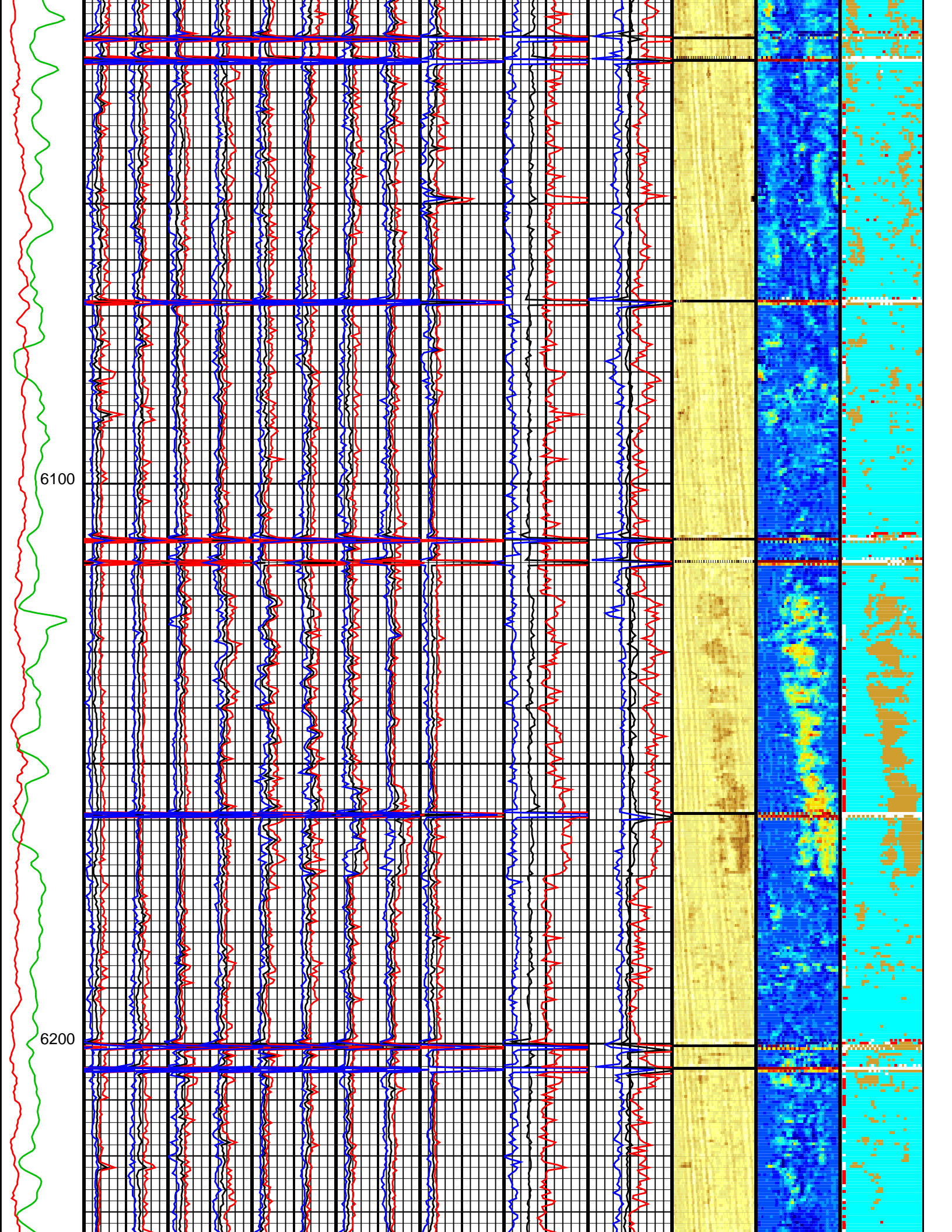


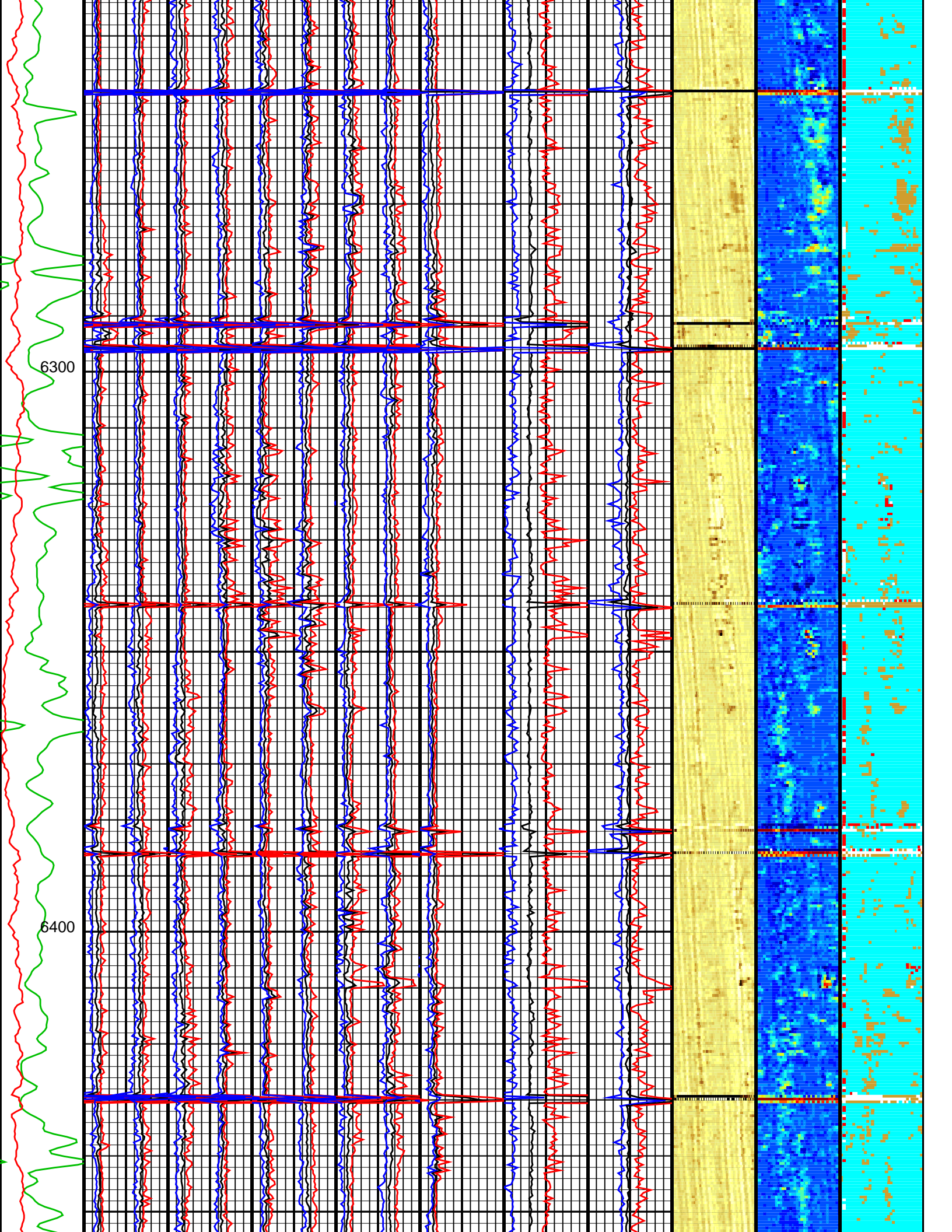


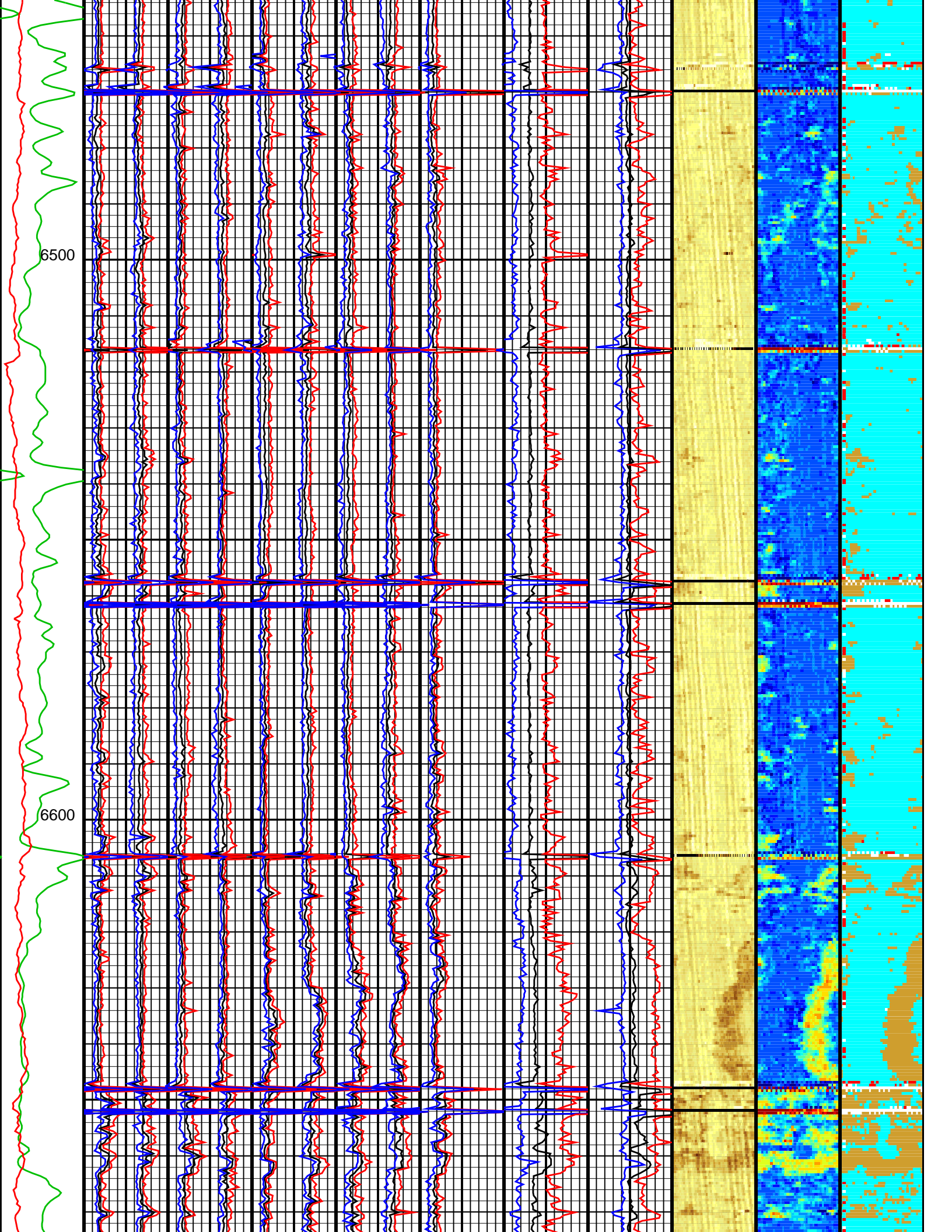


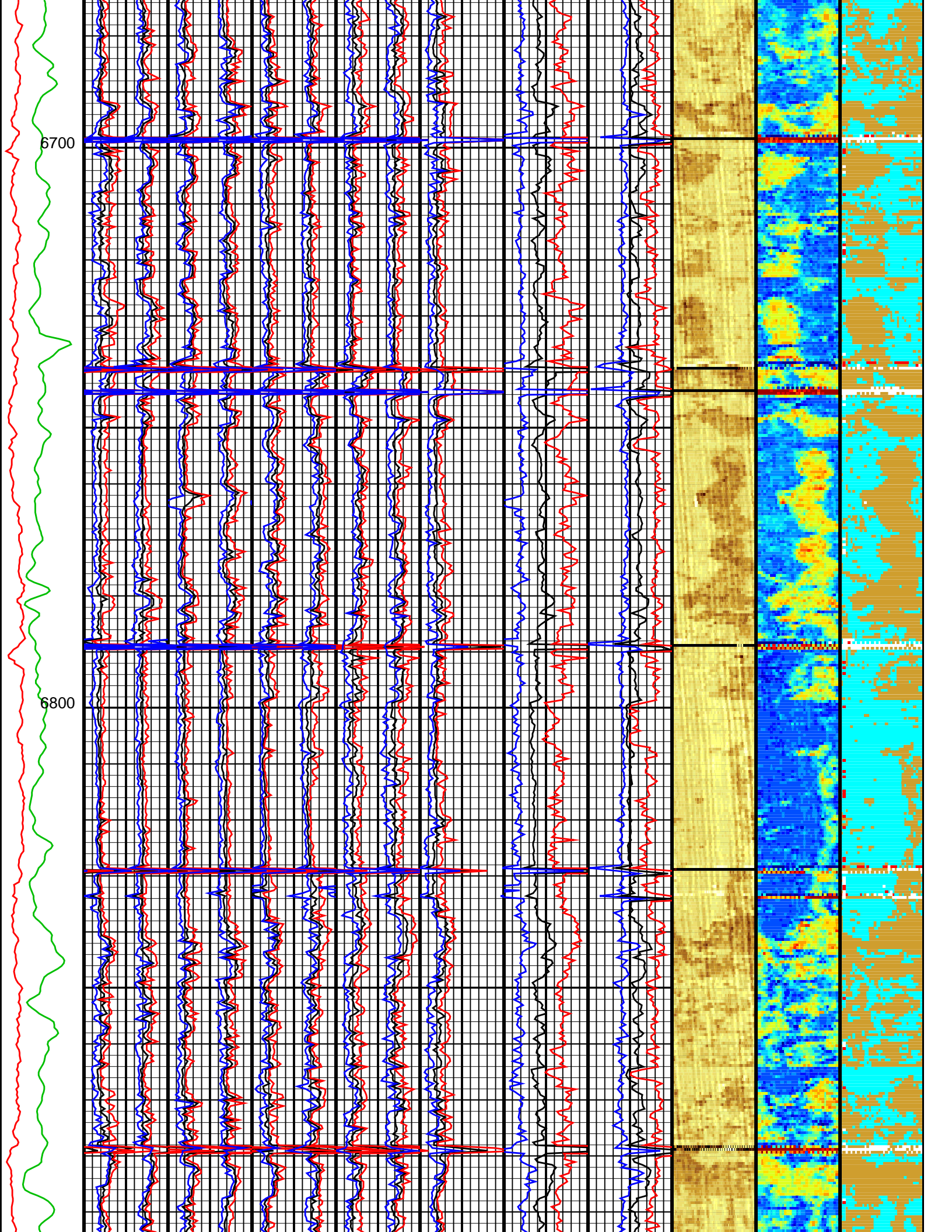


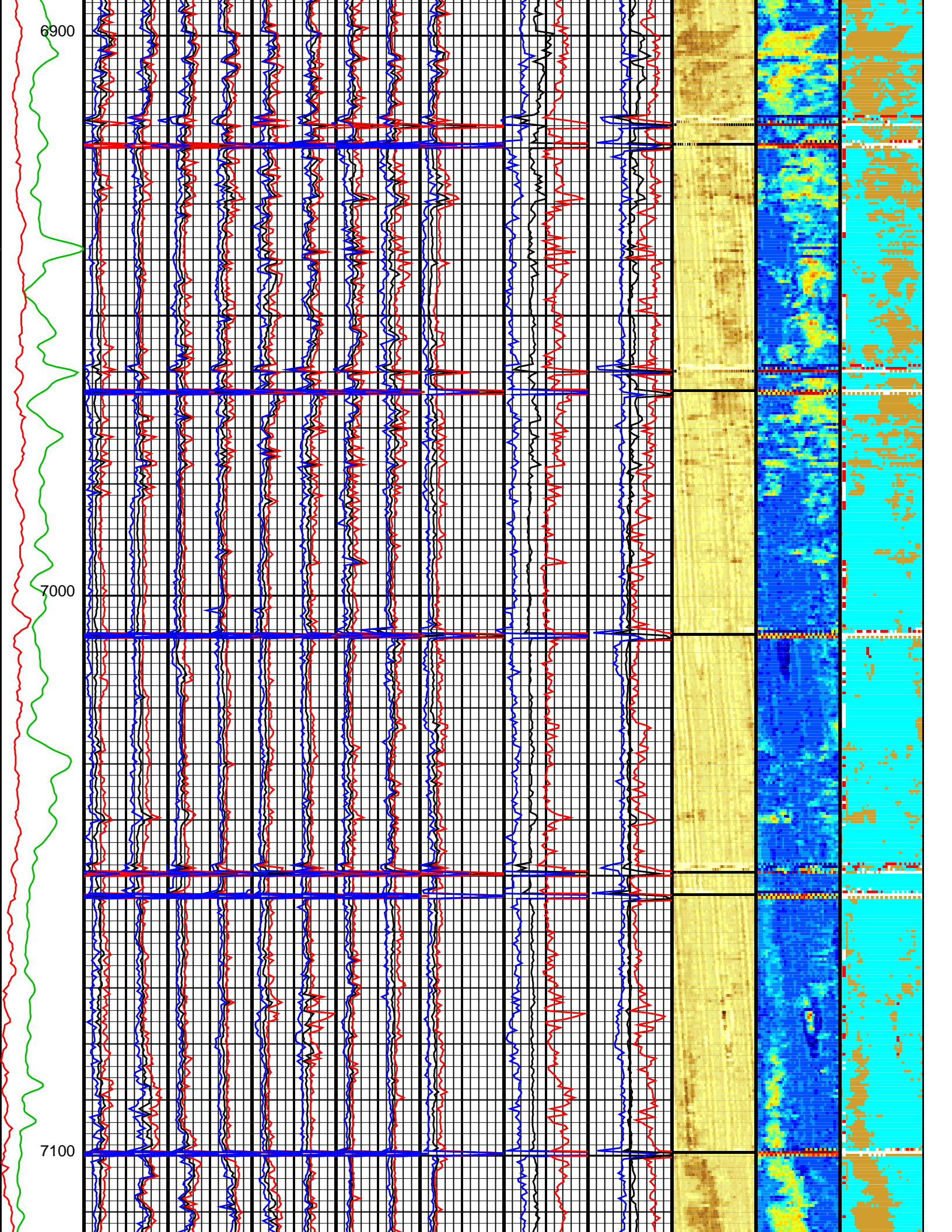


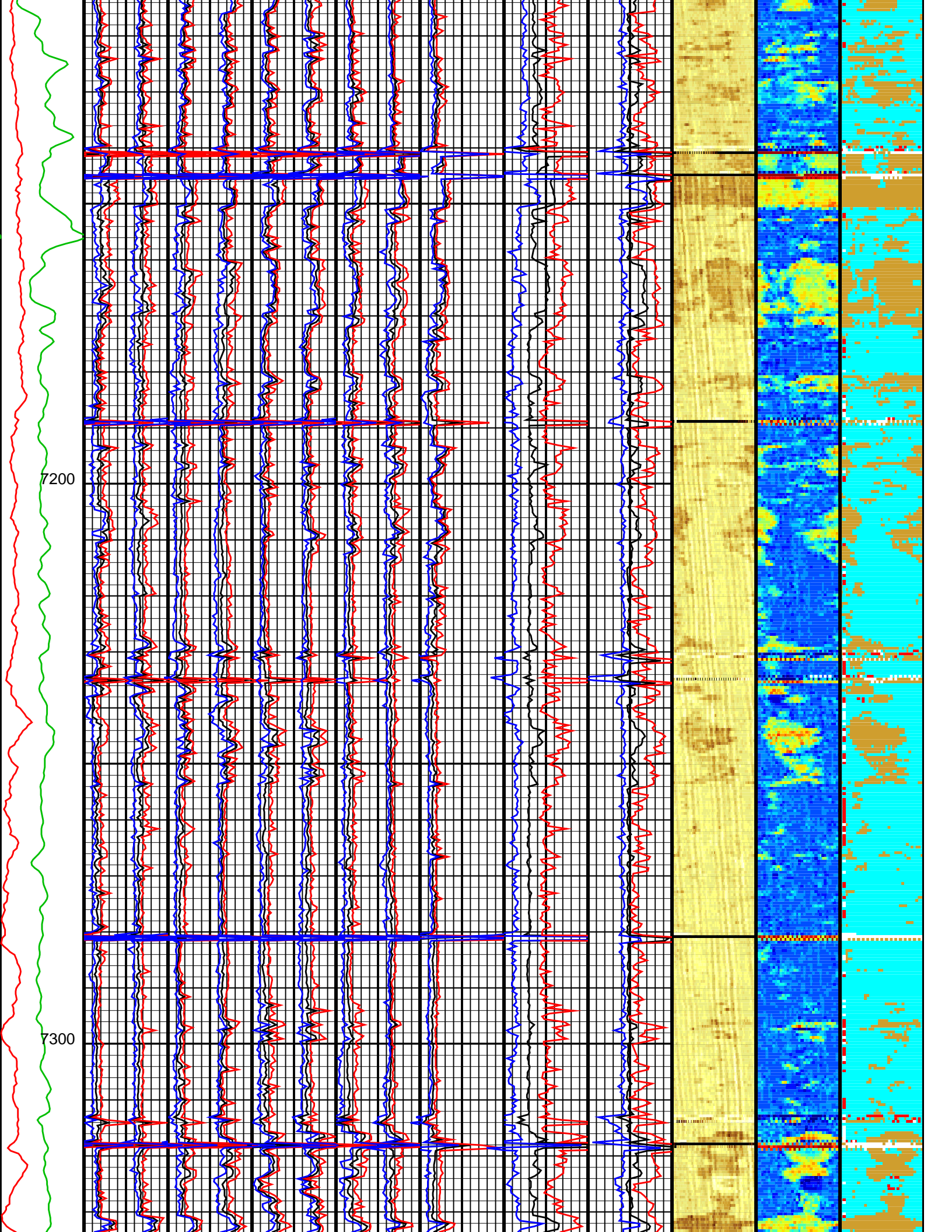


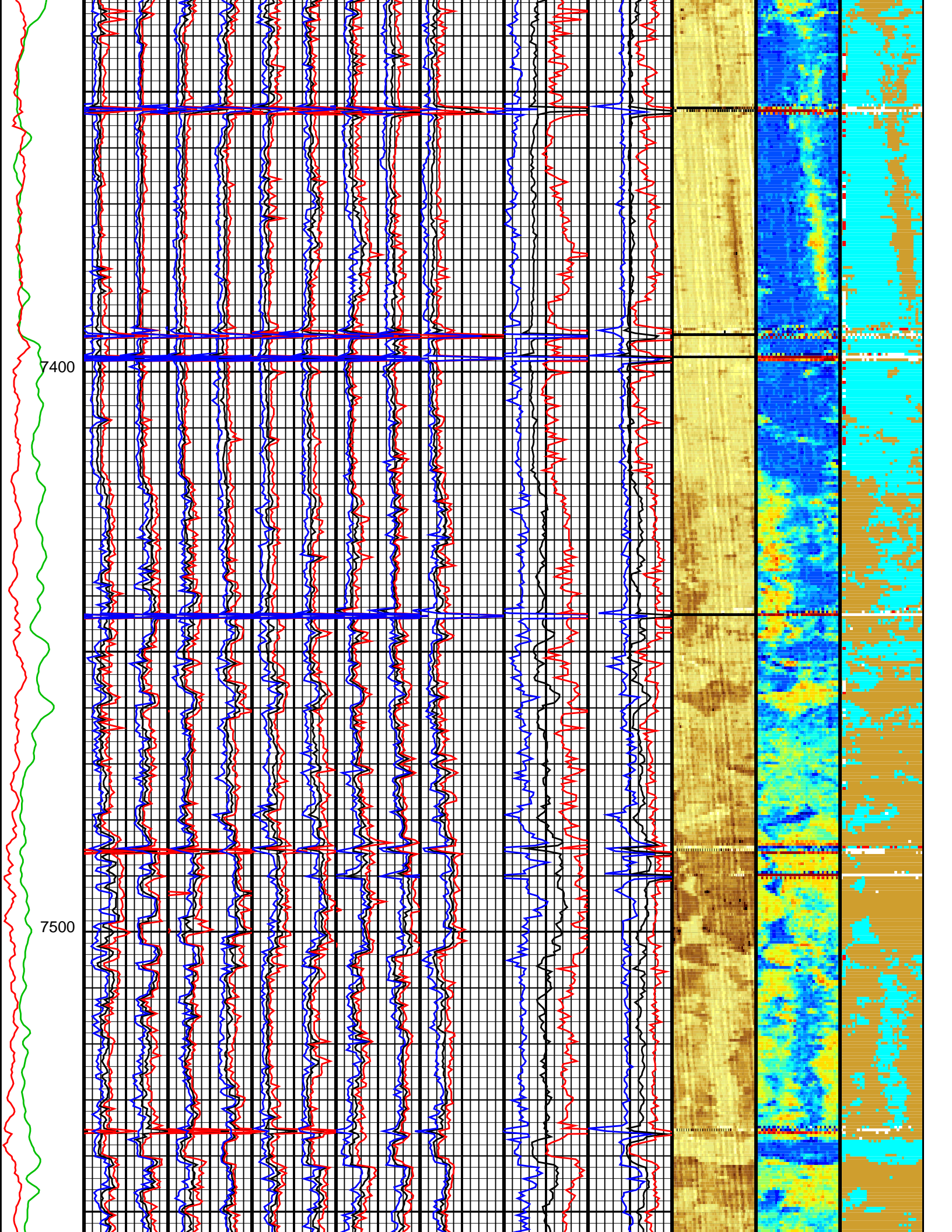


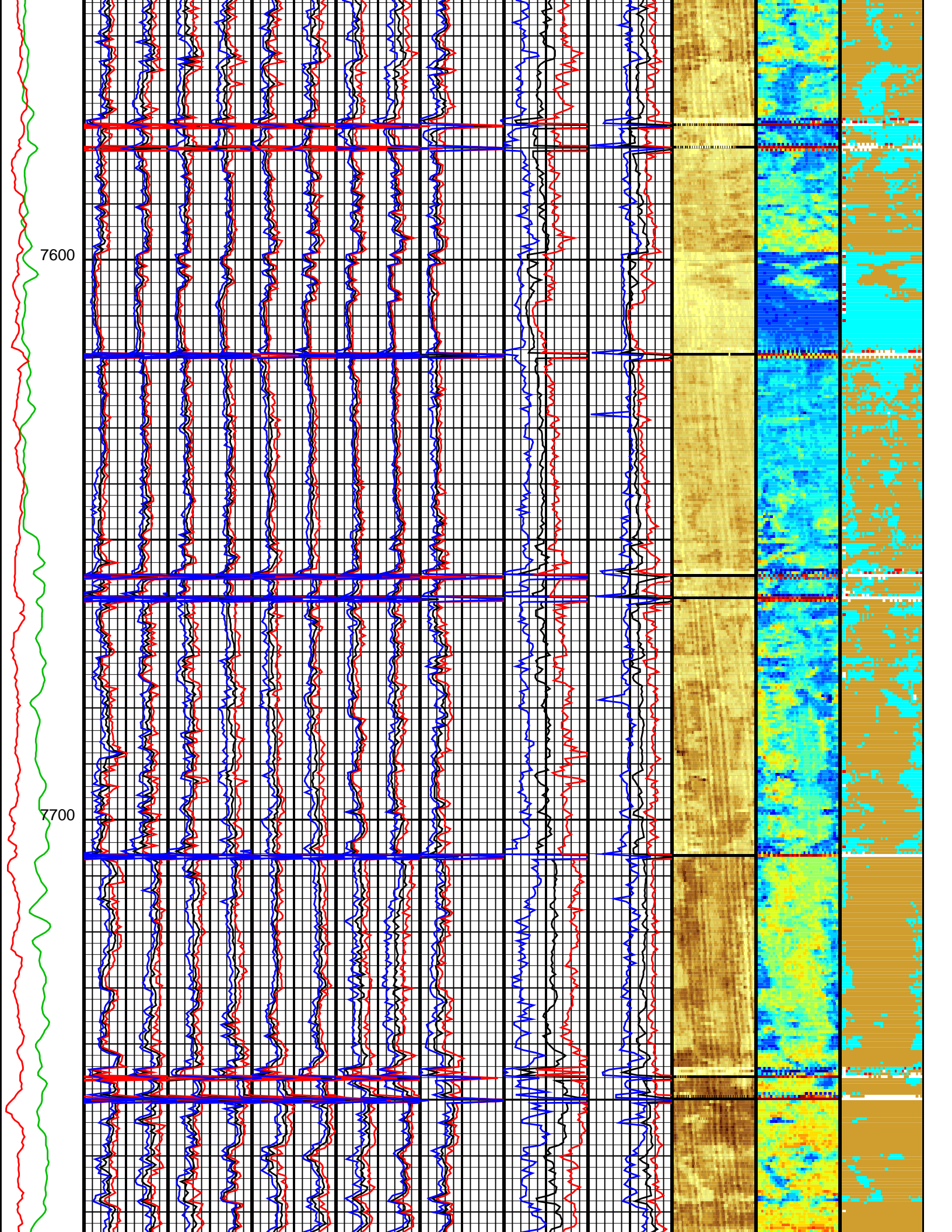


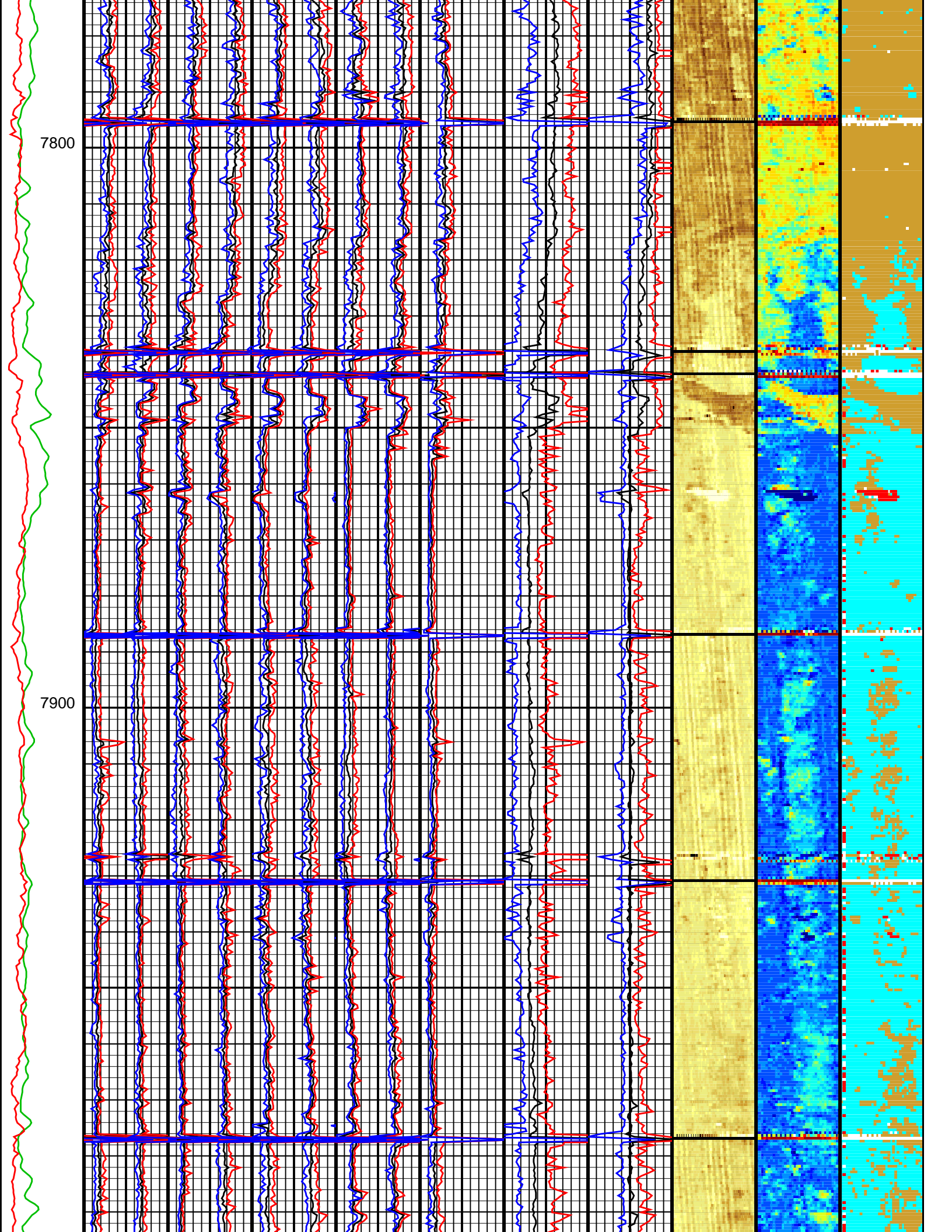


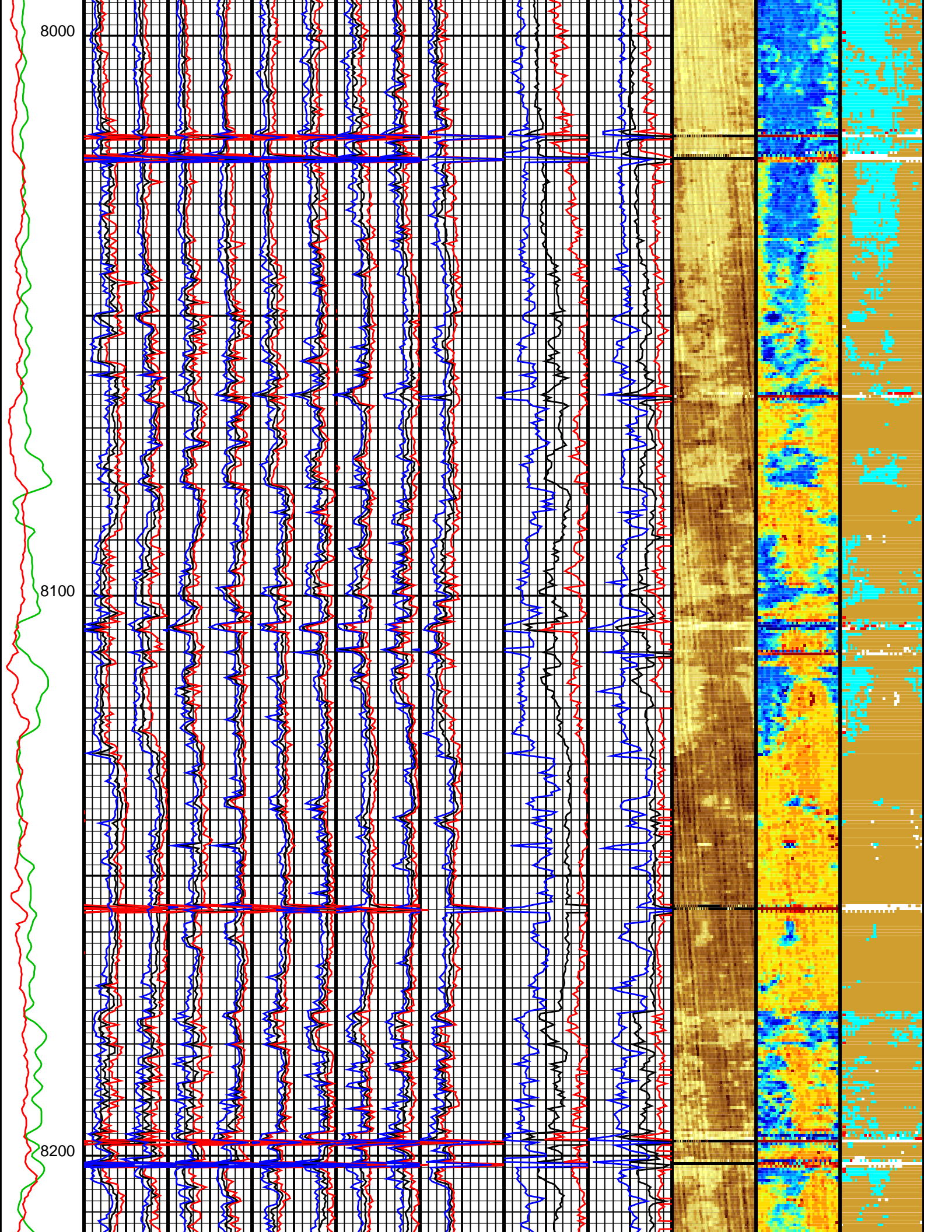


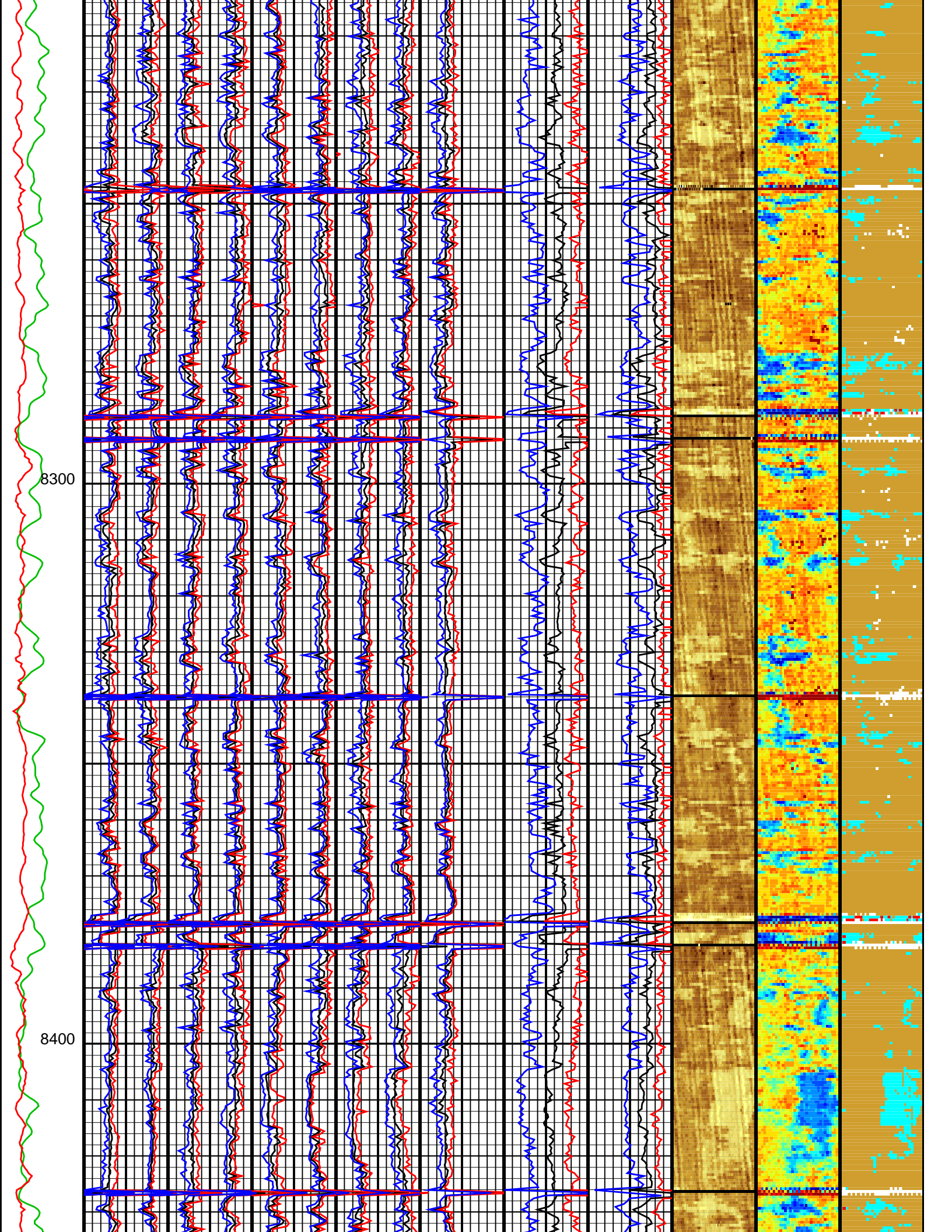


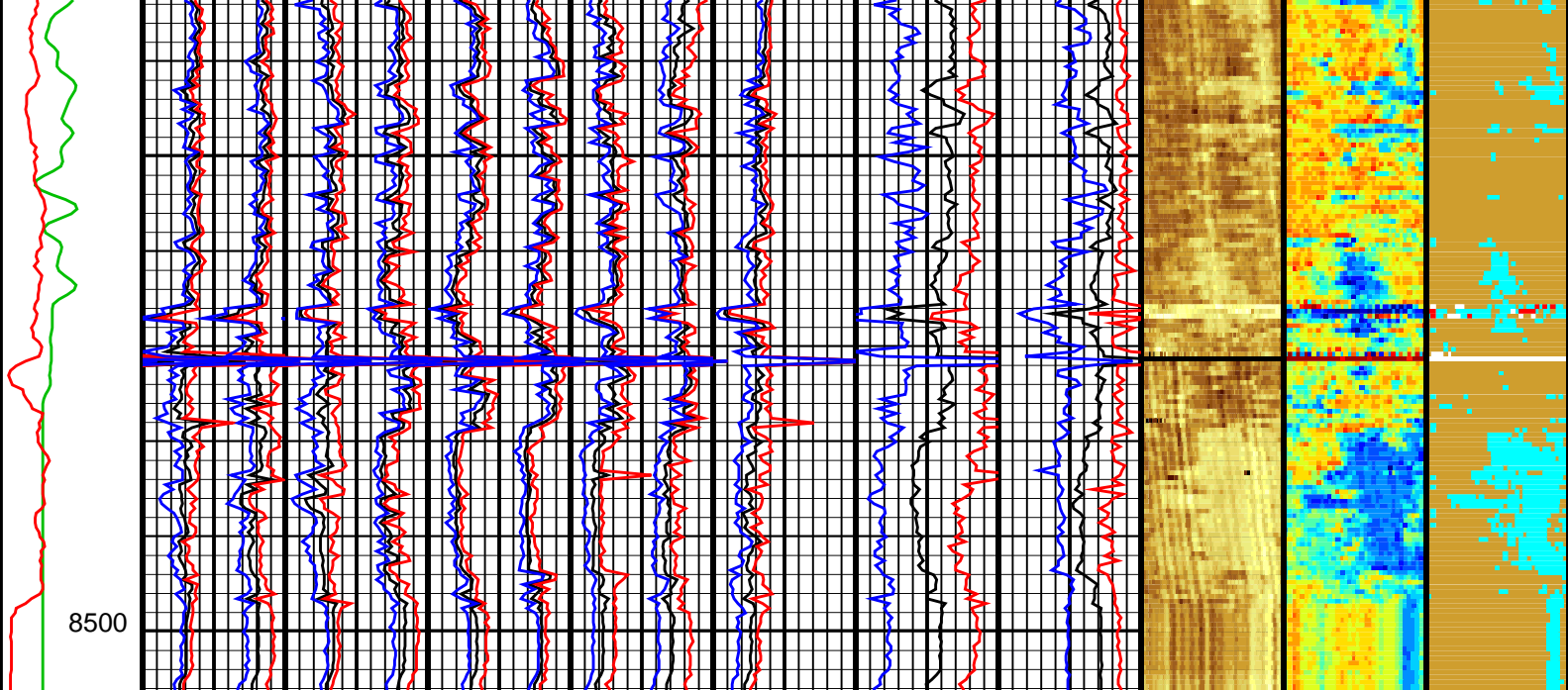








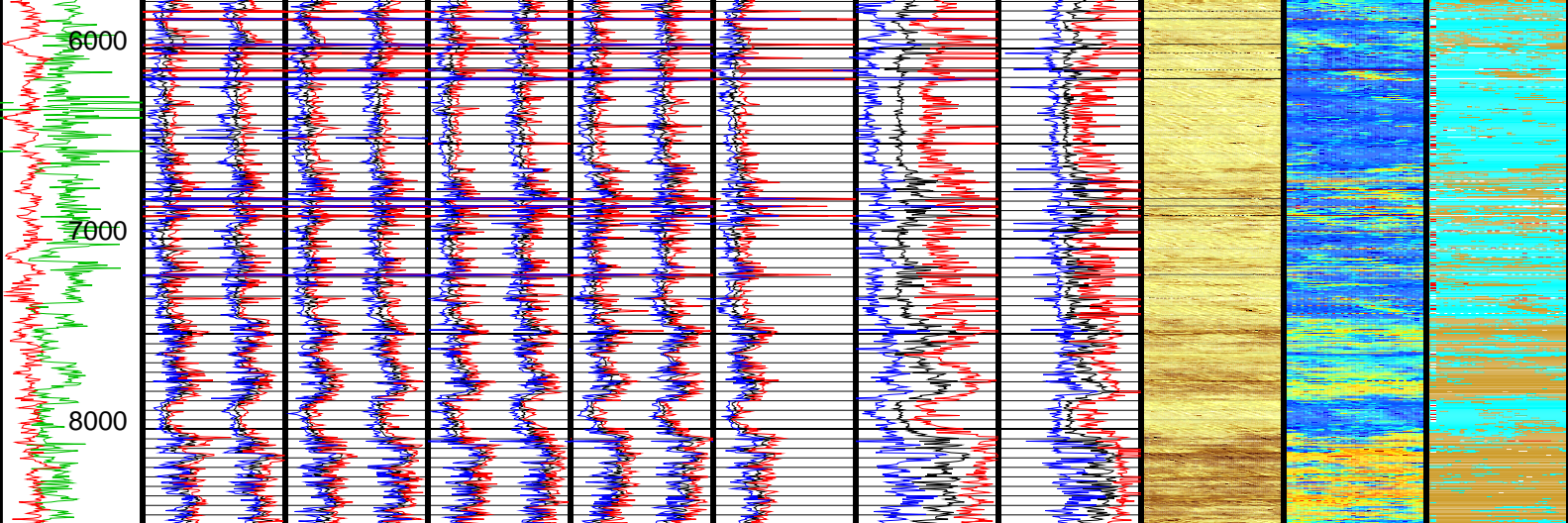




<div>Eccent. (ECCE)</div> <div>0 (IN) 0.5</div>	Average Acoustic Impedance #1 (AV_AI1) (MRAY)		Average Acoustic Impedance #3 (AV_AI3) (MRAY)		Average Acoustic Impedance #5 (AV_AI5) (MRAY)		Average Acoustic Impedance #7 (AV_AI7) (MRAY)		Average Acoustic Impedance #9 (AV_AI9) (MRAY)		Average of AI (AIAV) (MRAY)		Minimum Flexural Attenuation (U-USIT_UFAN) (DB/M)		<div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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	Minimum	Minimum	Minimum	Minimum	
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[illegible]



Eccent. (ECCE) 0 (IN) 0.5	Average Acoustic Impedance #1 (AV_AI1) (MRAY)	Average Acoustic Impedance #3 (AV_AI3) (MRAY)	Average Acoustic Impedance #5 (AV_AI5) (MRAY)	Average Acoustic Impedance #7 (AV_AI7) (MRAY)	Average Acoustic Impedance #9 (AV_AI9) (MRAY)	Average of AI (AIAV) (MRAY)	Minimum Flexural Attenuation (U-USIT_UFAN) (DB/M)	 Raw Acoustic Imped. (AIBK) (MRAY)	 Flexural Attenuation (U-USIT_UFAK) (DB/M)	 Solid Liquid Gas Map (U-USIT_USLP) (----)
	0 15	0 15	0 15	0 15	0 15	0 7.5	0 150			

Gamma Ray (GR) (GAPI) 0 150	Average Acoustic Impedance #2 (AV_AI2) (MRAY)	Average Acoustic Impedance #4 (AV_AI4) (MRAY)	Average Acoustic Impedance #6 (AV_AI6) (MRAY)	Average Acoustic Impedance #8 (AV_AI8) (MRAY)	Maximum Acoustic Impedance #9 (MAX_AI9) (MRAY)	Minimum of AI (AIMN) (MRAY)	Average Flexural Attenuation (U-USIT_UFAV) (DB/M)	
	-7.5 7.5	-7.5 7.5	-7.5 7.5	-7.5 7.5	0 15	0 7.5	0 150	

	Maximum Acoustic Impedance #1 (MAX_AI1) (MRAY)	Maximum Acoustic Impedance #3 (MAX_AI3) (MRAY)	Maximum Acoustic Impedance #5 (MAX_AI5) (MRAY)	Maximum Acoustic Impedance #7 (MAX_AI7) (MRAY)	Minimum Acoustic Impedance #9 (MIN_AI9) (MRAY)	Maximum of AI (AIMX) (MRAY)	Maximum Flexural Attenuation (U-USIT_UFAX) (DB/M)	
	0 15	0 15	0 15	0 15	0 15	0 7.5	0 150	

	Maximum Acoustic Impedance #2 (MAX_AI2) (MRAY)	Maximum Acoustic Impedance #4 (MAX_AI4) (MRAY)	Maximum Acoustic Impedance #6 (MAX_AI6) (MRAY)	Maximum Acoustic Impedance #8 (MAX_AI8) (MRAY)	
	-7.5 7.5	-7.5 7.5	-7.5 7.5	-7.5 7.5	

	Minimum Acoustic Impedance #1 (MIN_AI1) (MRAY)	Minimum Acoustic Impedance #3 (MIN_AI3) (MRAY)	Minimum Acoustic Impedance #5 (MIN_AI5) (MRAY)	Minimum Acoustic Impedance #7 (MIN_AI7) (MRAY)	
	0 15	0 15	0 15	0 15	

	Minimum Acoustic Impedance #2 (MIN_AI2) (MRAY)	Minimum Acoustic Impedance #4 (MIN_AI4) (MRAY)	Minimum Acoustic Impedance #6 (MIN_AI6) (MRAY)	Minimum Acoustic Impedance #8 (MIN_AI8) (MRAY)	
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	AI2) (MRAY)	AI4) (MRAY)	AI6) (MRAY)	AI8) (MRAY)	
	-7.5	7.5	-7.5	7.5	-7.5
					7.5

Format: M_Goodwin_Compressed

Vertical Scale: 0.1" per 100'

Graphics File Created: 11-Nov-2009 03:36

OP System Version: 17C0-154

USIT-D
DTC-H

SRPC-3779-Q1_2009_OP17_b
17C0-154

HILTH-FTB

SRPC-3779-Q1_2009_OP17_b

All USI Images are outside views

USI : LOW Frequency Compression Mode Used For Logging.

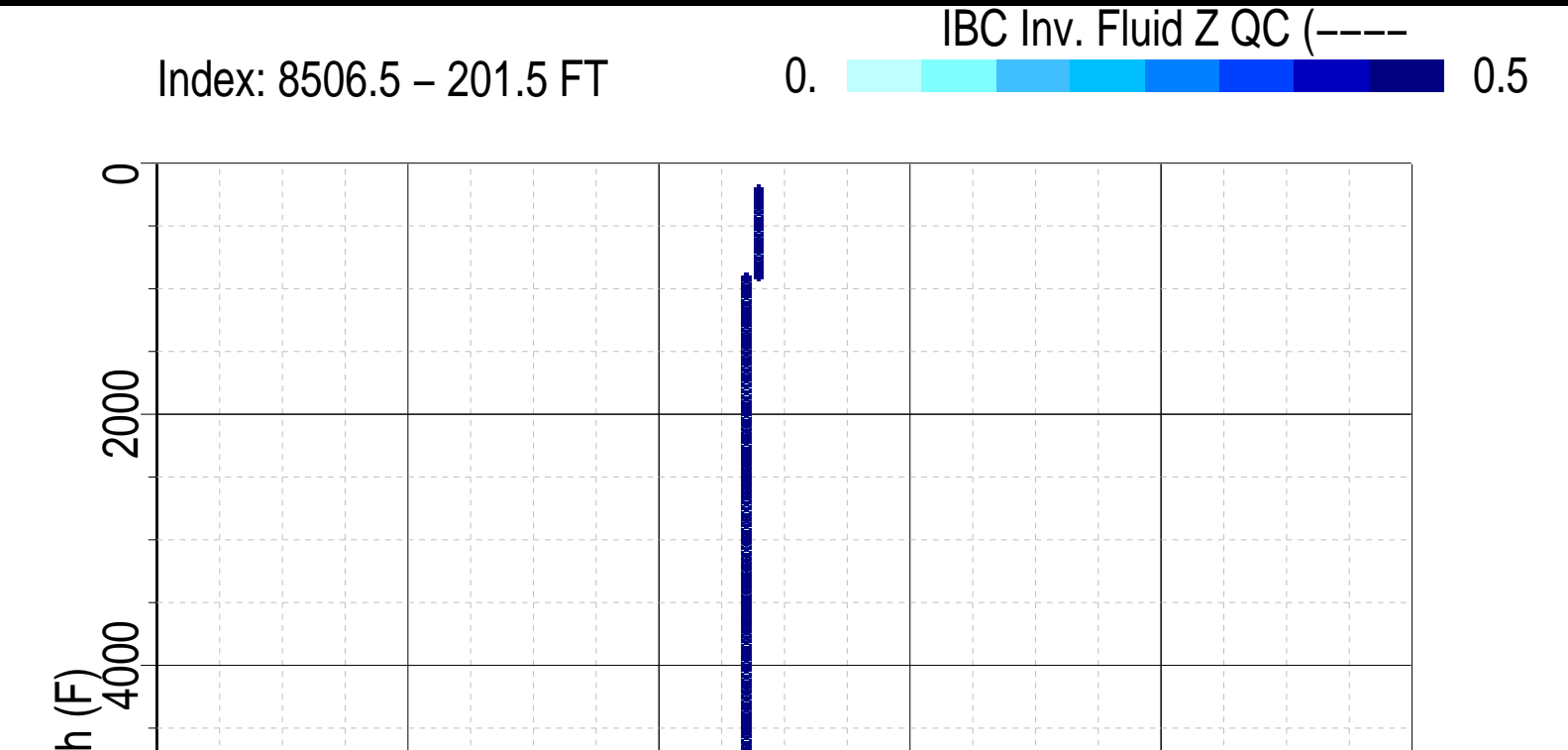
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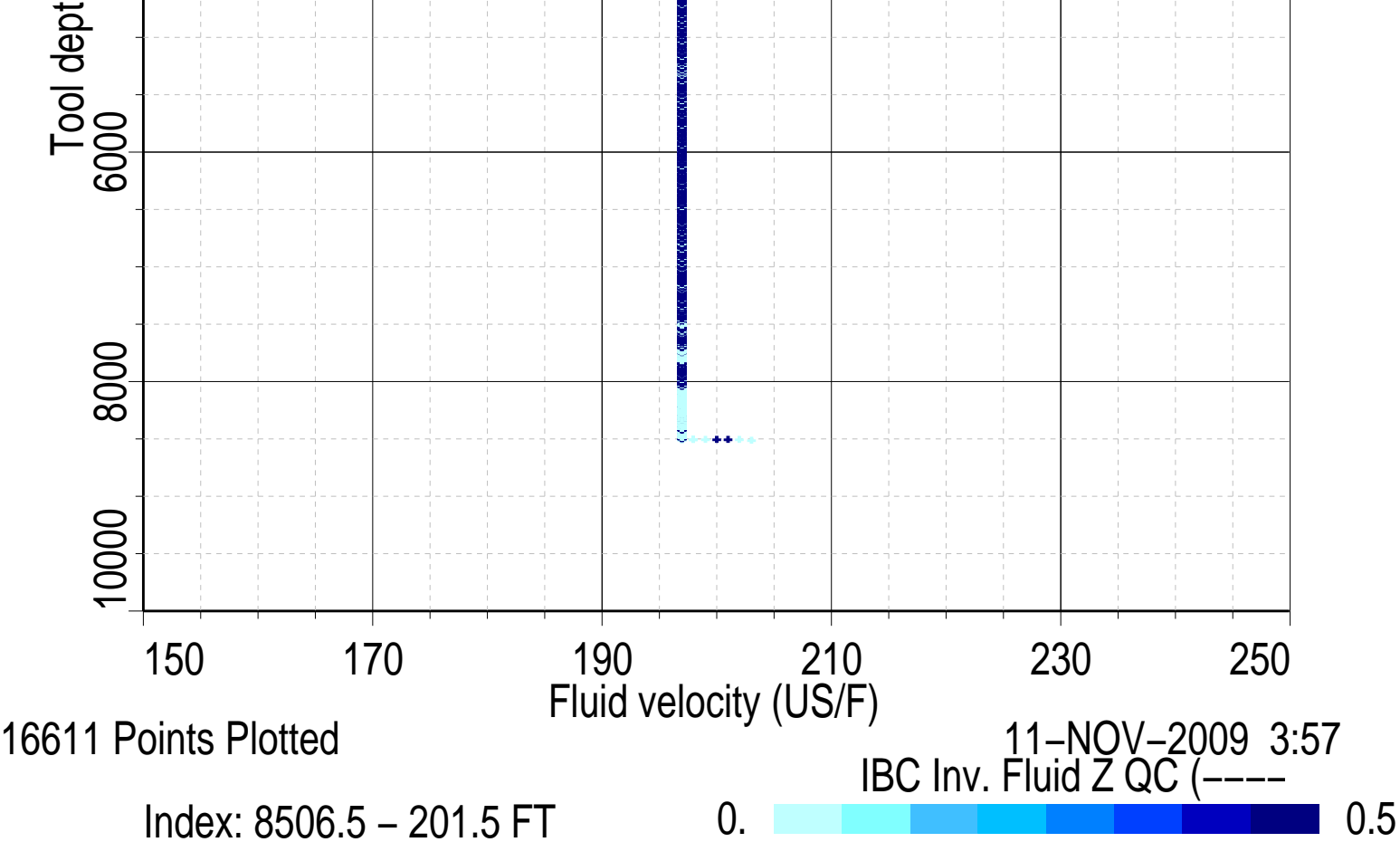
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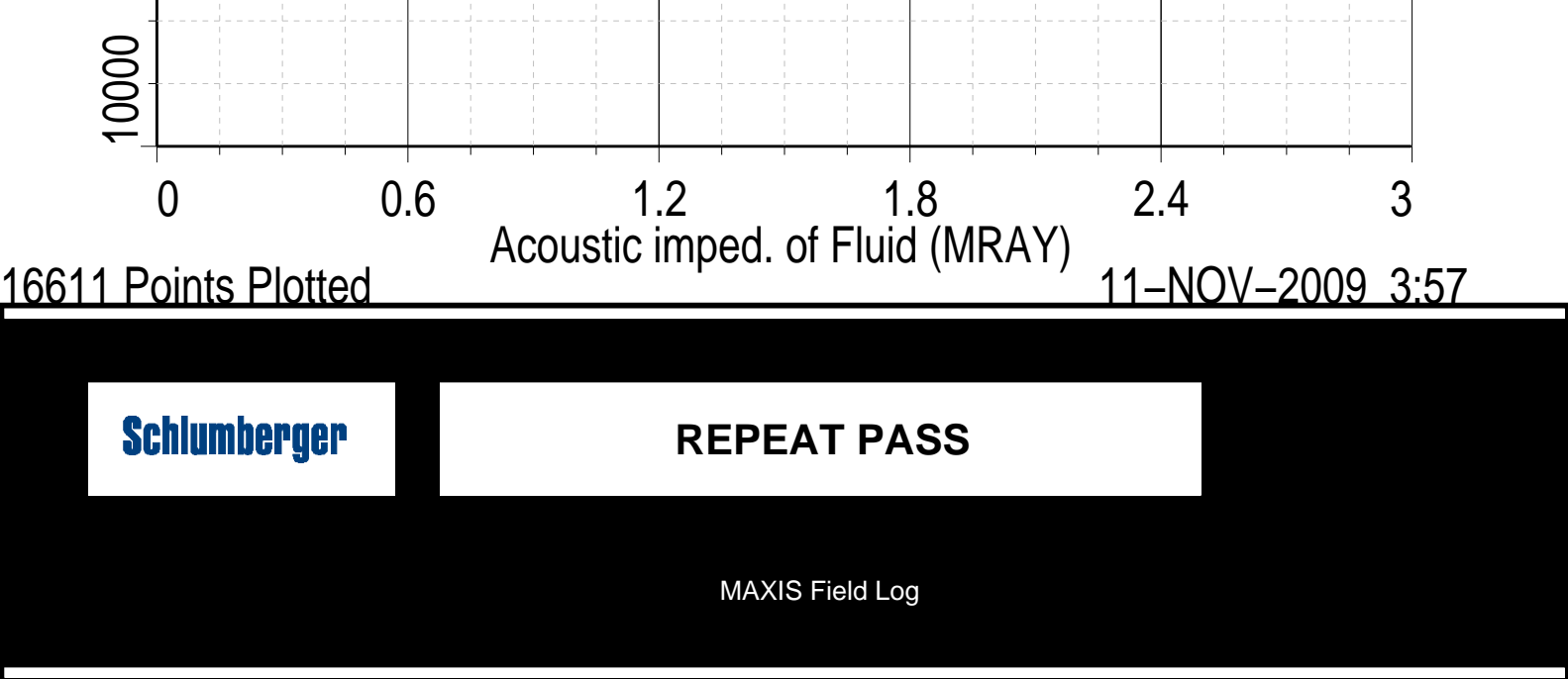
Schlumberger

FLUID PROPERTIES

MAXIS Field Log







Company: EXXONMOBIL PRODUCTION CO Well: PCU 197-34B10

Input DLIS Files						
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Output DLIS Files						
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BACKUP	USI_TLD_MCFL_CNL_016PUP	FN:27	PRODUCER	11-Nov-2009 03:24	8509.0 FT	8209.0 FT

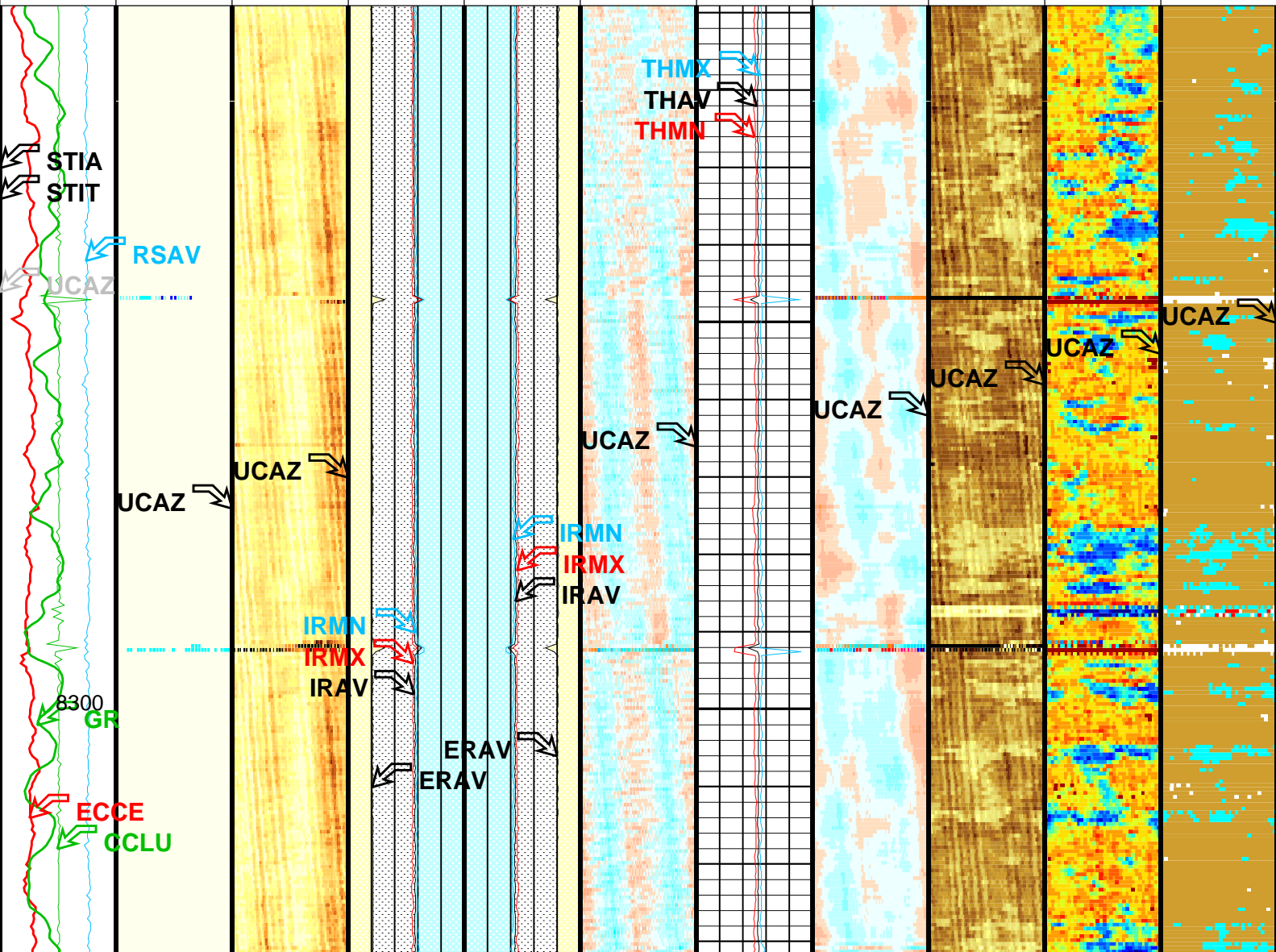
OP System Version: 17C0-154

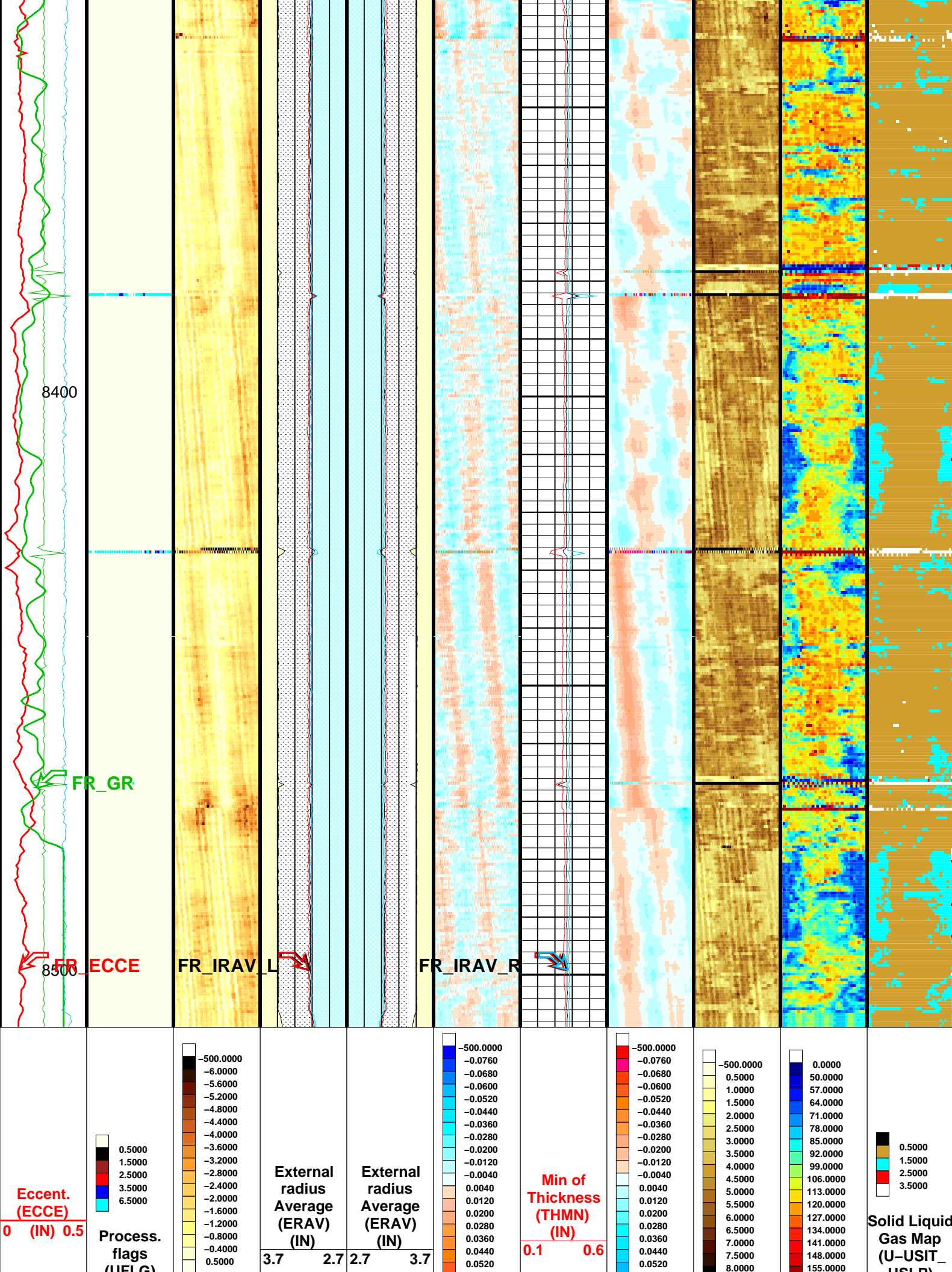
USIT-D DTC-H	SRPC-3779-Q1_2009_OP17_b 17C0-154	HILTH-FTB	SRPC-3779-Q1_2009_OP17_b
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Image rotation (UCAZ) (DEG)						
0 360						
Tool/Tot. Drag From D4T to STIA						
Cable Drag From D4T to STIT						
Stuck Stretch (STIT)						
0 (F) 50						
Gamma Ray (GR) (GAPI)	Min of Internal radius (IRMN) (IN)		Min of Internal radius (IRMN) (IN)			
0 150	3.7 2.7		2.7 3.7			
RSAV (RSAV)	Internal radius Maximum		Internal radius Maximum		Maximum of Thickness	

(RSAV) (RPS) 6 7.5	Maximum (IRMX) (IN) 3.7 2.7 2.7 3.7	Maximum (IRMX) (IN) 3.7 2.7 2.7 3.7	Thickness (THMX) (IN) 0.1 0.6
CCL (CCLU) (----) -20 20	Internal radius Average (IRAV) (IN) 3.7 2.7 2.7 3.7	Internal radius Average (IRAV) (IN) 3.7 2.7 2.7 3.7	Average of Thickness (THAV) (IN) 0.1 0.6

Eccent. (ECCE) 0 (IN) 0.5	Process. flags (UFLG) (----) <div> 0.5000 1.5000 2.5000 3.5000 6.5000 </div>	Amplitude of echo minus Max (AWBK) (DB) <div> -500.0000 -6.0000 -5.6000 -5.2000 -4.8000 -4.4000 -4.0000 -3.6000 -3.2000 -2.8000 -2.4000 -2.0000 -1.6000 -1.2000 -0.8000 -0.4000 0.5000 </div>	External radius Average (ERAV) (IN) 3.7 2.7 2.7 3.7	External radius Average (ERAV) (IN) 3.7 2.7 2.7 3.7	Internal radii minus Ave (IRBK) (IN) <div> -500.0000 -0.0760 -0.0680 -0.0600 -0.0520 -0.0440 -0.0360 -0.0280 -0.0200 -0.0120 -0.0040 0.0040 0.0120 0.0200 0.0280 0.0360 0.0440 0.0520 0.0600 0.0680 0.0760 </div>	Min of Thickness (THMN) (IN) 0.1 0.6	Thickness minus Ave (THBK) (IN) <div> -500.0000 -0.0760 -0.0680 -0.0600 -0.0520 -0.0440 -0.0360 -0.0280 -0.0200 -0.0120 -0.0040 0.0040 0.0120 0.0200 0.0280 0.0360 0.0440 0.0520 0.0600 0.0680 0.0760 </div>	Raw Acoustic Imped. (AIBK) (MRAY) <div> -500.0000 0.5000 1.0000 1.5000 2.0000 2.5000 3.0000 3.5000 4.0000 4.5000 5.0000 5.5000 6.0000 6.5000 7.0000 7.5000 8.0000 </div>	Flexural Attenuation (U-USIT_ UFAK) (DB/M) <div> 0.0000 50.0000 57.0000 64.0000 71.0000 78.0000 85.0000 92.0000 99.0000 106.0000 113.0000 120.0000 127.0000 134.0000 141.0000 148.0000 155.0000 </div>	Solid Liquid Gas Map (U-USIT_ USLP) (----) <div> 0.5000 1.5000 2.5000 3.5000 </div>
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	(USLP) (----		Amplitude of echo minus Max (AWBK) (DB)		 0.0600  0.0680  0.0760	Internal radii minus Ave (IRBK) (IN)		 0.0600  0.0680  0.0760	Raw Acoustic Imped. (AIBK) (MRAY)	Flexural Attenuation (U-USIT_ UFAK) (DB/M)	(USLP) (----
CCL (CCLU) (----				Internal radius Average (IRAV) (IN)	Internal radius Average (IRAV) (IN)		Average of Thickness (THAV) (IN)				
-20 20				3.7 2.7	2.7 3.7		0.1 0.6				
RSAV (RSAV) (RPS)				Internal radius Maximum (IRMX) (IN)	Internal radius Maximum (IRMX) (IN)		Maximum of Thickness (THMX) (IN)				
6 7.5				3.7 2.7	2.7 3.7		0.1 0.6				
Gamma Ray (GR) (GAPI)				Min of Internal radius (IRMN) (IN)	Min of Internal radius (IRMN) (IN)						
0 150				3.7 2.7	2.7 3.7						
Stuck Stretch (STIT)											
0 (F) 50											
Cable Drag From D4T to STIT											
Tool/Tot. Drag From D4T to STIA											
Image rotation (UCAZ) (DEG)											
0 360											

Format: USI_IBC_SLG_Composite		Vertical Scale: 5" per 100'		Graphics File Created: 11-Nov-2009 03:24	
OP System Version: 17C0-154					
USIT-D DTC-H	SRPC-3779-Q1_2009_OP17_b 17C0-154		HILTH-FTB	SRPC-3779-Q1_2009_OP17_b	
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	IN
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	6.276	IN
DFVL	Default Fluid Velocity	203	US/F
DOT	Diameter of Transducer Sensor	2.874	IN
EMXV	EMEX Voltage	120	V
FSOD	Fluid Slowness Fits Casing Outer Diameter	2_USFL_N_UFAI	
IMAR	Image Rotation	OFF	
MW	Mud Weight	9.4	LB/G
RCOD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.1811	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	130	
THDL	Minimum Search Thickness (percentage of nominal)	70	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.362	IN
U-USIT_CENT	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	10.75	IN
U-USIT_OCSH	USIT Outer Casing Shoe	4318	FT
U-USIT_OCWE	USIT Outer Casing Weight	45	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	-14	DB/M
U-USIT_UIAP	USIT IBC Answer Product Enabled	SolidLiquidGasMap	
U-USIT_UIST	Ultrasonic IBC Sonde Type	Sub_lbcS_B	
U-USIT_UTAN	USIT Transducer Angles	33_DEG	
UMAO	USIT Measurement Angular Offset	-10	DEG
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_7_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_136UNF_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	21.7078	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	2	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	5	FT
TDD	Total Depth - Driller	9005.00	FT
TDL	Total Depth - Logger	8500.00	FT
System and Miscellaneous			
BS	Bit Size	9.875	IN
CWEI	Casing Weight	26.00	LB/F
DO	Depth Offset for Playback	9.5	FT
PP	Playback Processing	NORMAL	

Input DLIS Files



DEFAULT	USI_TLD_MCFL_CNL_009LUP	FN:13	PRODUCER	10-Nov-2009 22:28	8499.5 FT	8199.5 FT
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Output DLIS Files



DEFAULT	USI_TLD_MCFL_CNL_016PUP	FN:26	PRODUCER	11-Nov-2009 03:24
BACKUP	USI_TLD_MCFL_CNL_016PUP	FN:27	PRODUCER	11-Nov-2009 03:24



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CALIBRATIONS

High resolution Integrated Logging Tool–DTS Wellsite Calibration									
Ratio Measurement									
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value
Master				5398	Master				2144
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)			1900 (Minimum)	2400 (Nominal)	2900 (Maximum)	
Master: 31–Aug–2009 11:18									

High resolution Integrated Logging Tool–DTS Wellsite Calibration			
Accelerometer Calibration			
Phase	Z–Axis Acceleration F/S2	Value	
Before		32.03	
	31.53 (Minimum)	32.19 (Nominal)	32.84 (Maximum)
Before: 10–Nov–2009 20:52			

High resolution Integrated Logging Tool–DTS Master Calibration									
Zero Measurement									
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value
Master				26.93	Master				29.90
	5.000 (Minimum)	26.93 (Nominal)	40.00 (Maximum)			5.000 (Minimum)	29.90 (Nominal)	40.00 (Maximum)	
Master: 31–Aug–2009 11:18									

High resolution Integrated Logging Tool–DTS Master Calibration									
Tank Measurement									
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value
Master				5398	Master				2144
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)			1900 (Minimum)	2400 (Nominal)	2900 (Maximum)	
Master: 31–Aug–2009 11:18									

DTS Telemetry Tool / Equipment Identification	
Primary Equipment:	
DTC–H Auxiliary Cartridge	DTCH – A
DTC–H Telemetry Cartridge	DTCH – A
Auxiliary Equipment:	
DTCH Telemetry Cartridge Housing	ECH – KC

Company: **EXXONMOBIL PRODUCTION CO**

Schlumberger

Well: **PCU 197–34B10**
Field: **PICEANCE CREEK**
County: **RIO BLANCO**
State: **COLORADO**

IMAGING BEHIND CASING
ULTRASONIC TOOL
GAMMA RAY / CCL