

Cor
Well
Field
County

County: RIO BLANCO
Field: PICEANCE CREEK
Location: N40W 1704' ECL 3 100' EWL

Loggin
Run N
Depth I
Schlur
Bottom
Top Lo
Casing
Salinity
Density
Fluid L
BIT/C
Bit Size
From
To
Casing
Weight
Grade
From
To
Maxim
Logger
Unit N
Record
Witness

Schlumberger

Company: **EXXONMOBIL PRODUCTION CO.**

Well: **PCU 197-34A9**

Location: **PICEANCE CREEK**

County: **RIO BLANCO**

State: **CO**

IMAGING BEHIND CASING

GAMMA RAY

CCLU

NWSW 1731' FSL & 102' FWL

Elev.: K.B. 6519.20 ft
G.L. 6489.00 ft
D.F. 6518.20 ft

Permanent Datum: GROUND LEVEL Elev.: 6489.00 ft

Log Measured From: KELLY BUSHING 30.20 ft above Perm. Datum

Drilling Measured From: KELLY BUSHING

API Serial No. 05-103-11536 Section 34 Township 1S Range 97W

Log Date 26-Jun-2010

Driller 1

Slurber Depth 8421 ft

Log Interval 8310 ft

Log Interval 8310 ft

Fluid Type 3150 ft

WBM

8.4 lbm/gal

10 ft

9.875 in

3650 ft

8421 ft

7.000 in

26 lbm/ft

0 ft

8421 ft

209 degF

On Bottom	Temperatures	Time	Location
26-Jun-2010		23:30	
2379	VERNAL		
RYAN STEWART			
JOSH LOVE			

PVT DATA

	Run 1	Run 2	Run 3
Oil Density			
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation	20 deg		
CEMENTING DATA			
Primary/Squeeze	Primary		
Casing String No			
Lead Cement Type			
Volume			
Density	11 lbm/gal		
Water Loss			
Additives			
Tail Cement Type			
Volume			
Density			
Water Loss			
Additives			
Expected Cement Top			
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			
Recorded By			
Witnessed By			

DEPTH SUMMARY LISTING

Date Created: 27-JUN-2010 3:51:40

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: 6214 Calibration Date: 1-JAN-10 Calibrator Serial Number: 33 Calibration Cable Type: 7-46P Wheel Correction 1: -8 Wheel Correction 2: -9	Type: CMTD-B/A Serial Number: 8093 Calibration Date: 03-JUN-10 Calibrator Serial Number: 100518 Number of Calibration Points: 10 Calibration RMS: 34 Calibration Peak Error: 62	Type: 7-46P Serial Number: 709025 Length: 24000 FT <hr/> Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters

Log Sequence: First Log In the Well
Rig Up Length At Surface: 227.80 FT
Rig Up Length At Bottom: 227.50 FT
Rig Up Length Correction: 0.30 FT
Stretch Correction: 6.70 FT
Tool Zero Check At Surface: 0.60 FT

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH POLICIES FOLLOWED
2. IDW USED AS PRIMARY METHOD OF DEPTH CONTROL
3. Z-CHART USED AS SECONDARY METHOD OF DEPTH CONTROL
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	OTHER SERVICES2
OS1:	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
TOOL RAN AS PER TOOL SKETCH	
TOOL CENTERED USING 2 X ILC AND 2 X GEMCO	
UFAO = -12 DB/M	
EXPECTED CASING THICKNESS 0.362 INCH	
EXPECTED CASING ID 6.276 INCH	
CEMENT: SINGLE SLURRY 11LB/G	
LOG CORRELATED TO DOWNLOG AT 8200 FT	
HORIZONTAL RESOLUTION: 5 DEG	
VERTICLE RESOLUTION : 6 INCH	
TD NOT TAGGED	
DATA SPLICE AT 2800 FT	

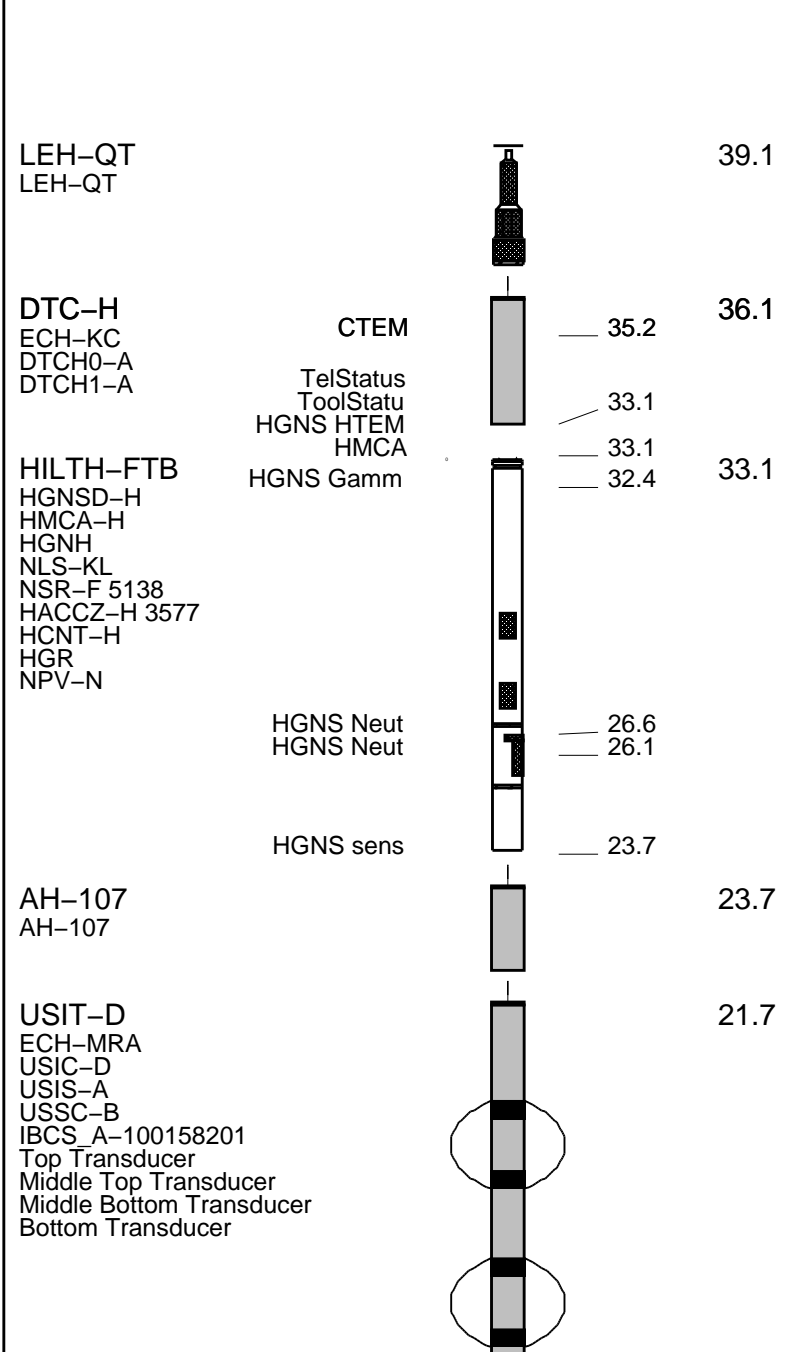
RUN 1			RUN 2		
SERVICE ORDER #:		BADQ-00022	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:		10 ft	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

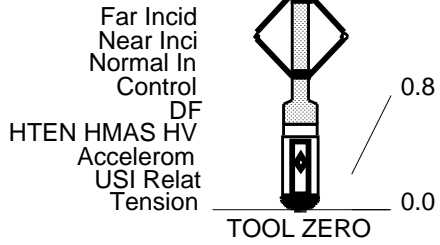
RUN 1	RUN 2
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SURFACE EQUIPMENT
 WITM (DTS)-A
 GSR-U/Y
 NCT-B
 CNB-AB
 NCS-VB

DOWNHOLE EQUIPMENT



LEH-QT LEH-QT		39.1
DTC-H ECH-KC DTCH0-A DTCH1-A	CTEM	35.2
	TelStatus	33.1
	ToolStatu	33.1
	HGNS HTEM	32.4
	HMCA	
HILTH-FTB HGNSD-H HMCA-H HGNH NLS-KL NSR-F 5138 HACCZ-H 3577 HCNT-H HGR NPV-N	HGNS Gamm	32.4
	HGNS Neut	26.6
	HGNS Neut	26.1
	HGNS sens	23.7
AH-107 AH-107		23.7
USIT-D ECH-MRA USIC-D USIS-A USSC-B IBCS_A-100158201 Top Transducer Middle Top Transducer Middle Bottom Transducer Bottom Transducer		21.7



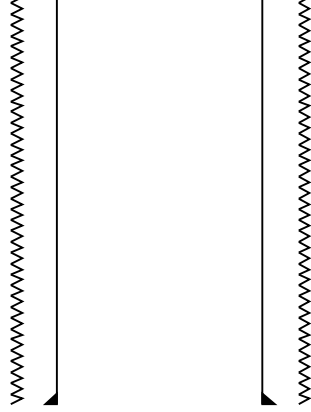
MAXIMUM STRING DIAMETER 7.5 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN FEET

Client: EXXONMOBIL PRODUCTION CO.
 Well: PCU 197-34A9
 Field: PICEANCE CREEK
 State: CO
 Country: USA

Rig Name: MAST
 Reference Datum: GROUND LEVEL
 Elevation: 6489.0 ft

Drawing Date: 6/27/2010
 API #: 05-103-11536

Production String	(in)			Well Schematic	(ft)			Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	7.000		Casing String
					3650.0	9.875		Borehole Segment



8421.0

7.000

Casing Shoe

All Depths are Drillers Depths



IBC SLG COMPOSITE

MAXIS Field Log

Company: EXXONMOBIL PRODUCTION CO. Well: PCU 197-34A9

Input DLIS Files

DEFAULT	SPLICE_USI_TLD_MCFL_009	FN:1	PRODUCER	27-Jun-2010 04:26	8315.0 FT	203.5 FT
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Output DLIS Files

DEFAULT	USI_TLD_MCFL_CNL_012PUP	FN:10	PRODUCER	27-Jun-2010 04:33
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OP System Version: 17C0-154

USIT-D	17C0-154	HILTH-FTB	17C0-154
DTC-H	17C0-154		

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
ZMUD	1.7 MRAY	1.75 MRAY	6501.5 04:36:23
	1.65 MRAY	1.7 MRAY	5501.5 04:38:25

Image rotation (UCAZ) (DEG)

0 360

Gamma Ray (GR) (GAPI)

0 150

CCL (CCLU) (----)

-20 20

RSV (RSV) (RPS)

6 7.5

CCL (CCLU) (----)

-20 20

Min of Internal radius (IRMN) (IN)	Min of Internal radius (IRMN) (IN)
3.7 2.7	2.7 3.7

Internal radius Maximum (IRMX) (IN)	Internal radius Maximum (IRMX) (IN)
3.7 2.7	2.7 3.7

Maximum of Thickness (THMX) (IN)
0.1 0.6

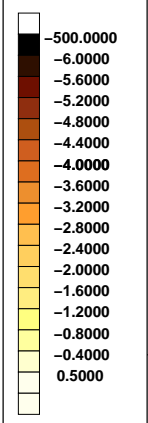
Internal radius Average (IRAV) (IN)	Internal radius Average (IRAV) (IN)
3.7 2.7	2.7 3.7

Average of Thickness (THAV) (IN)
0.1 0.6

Eccent. (ECCE) (IN) 0 0.5

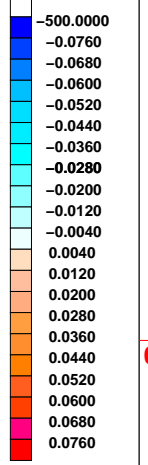


Process. flags (UFLG) (----)



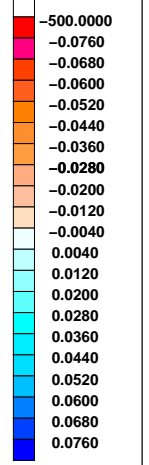
Amplitude of echo minus Max (AWBK) (DB)

External radius Average (ERAV) (IN)	External radius Average (ERAV) (IN)
3.7 2.7	2.7 3.7

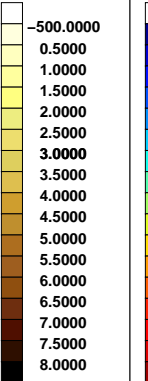


Internal radii minus Ave (IRBK) (IN)

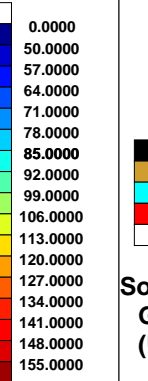
Min of Thickness (THMN) (IN) 0.1 0.6



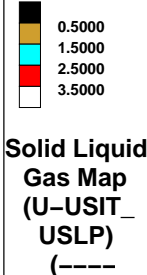
Thickness minus Ave (THBK) (IN)



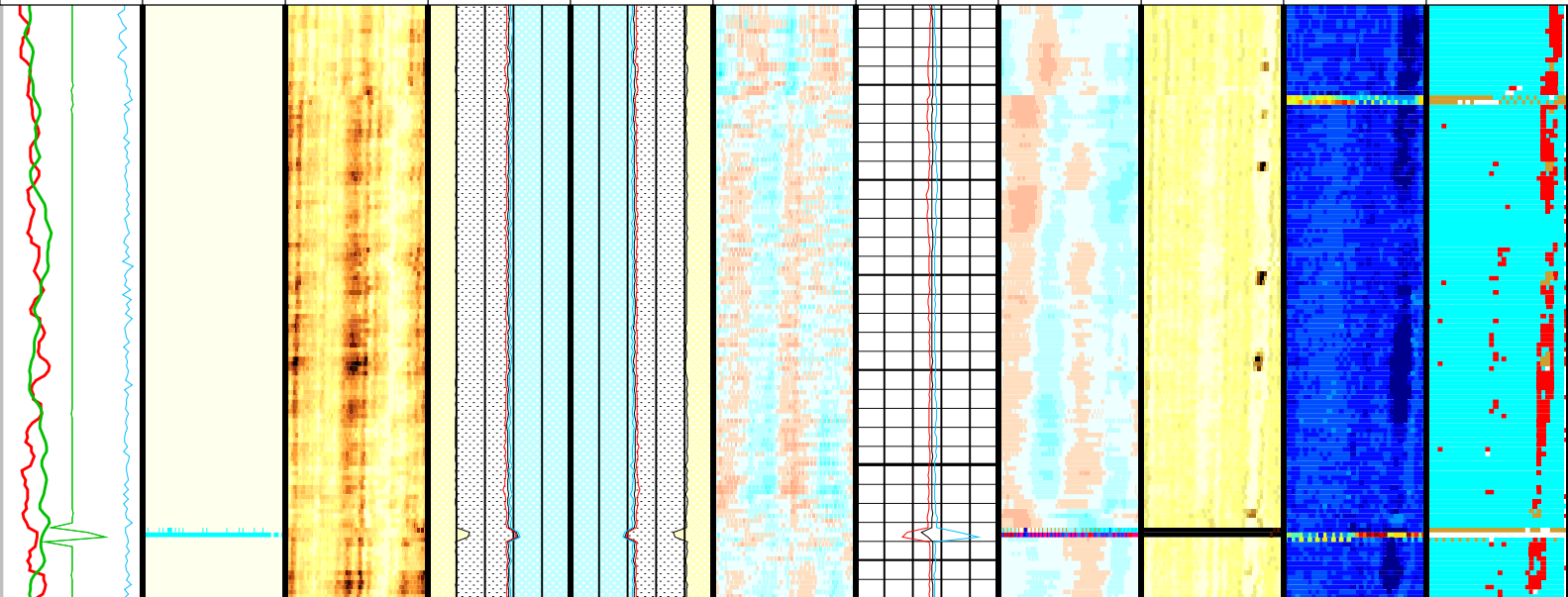
Raw Acoustic Imped. (AIBK) (MRAY)

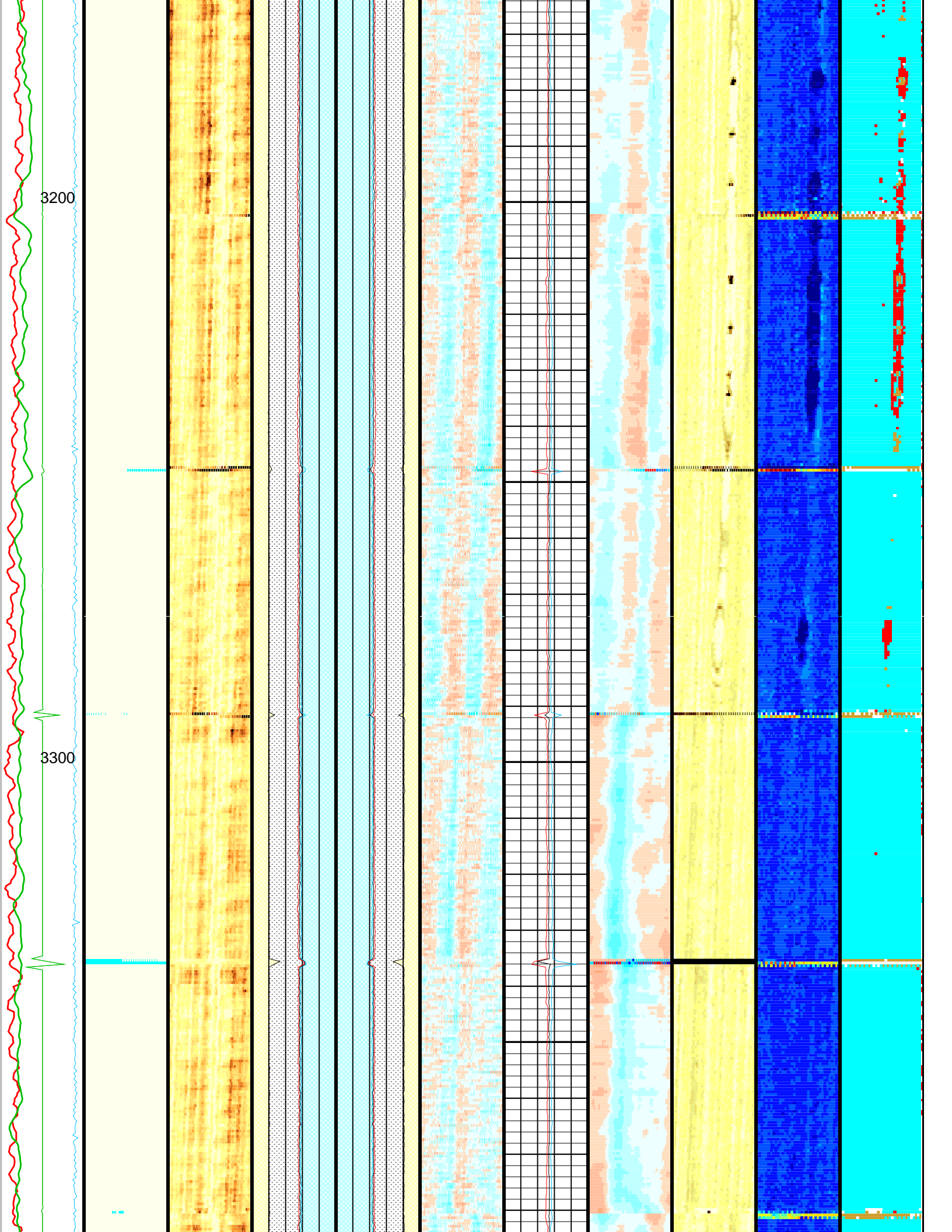


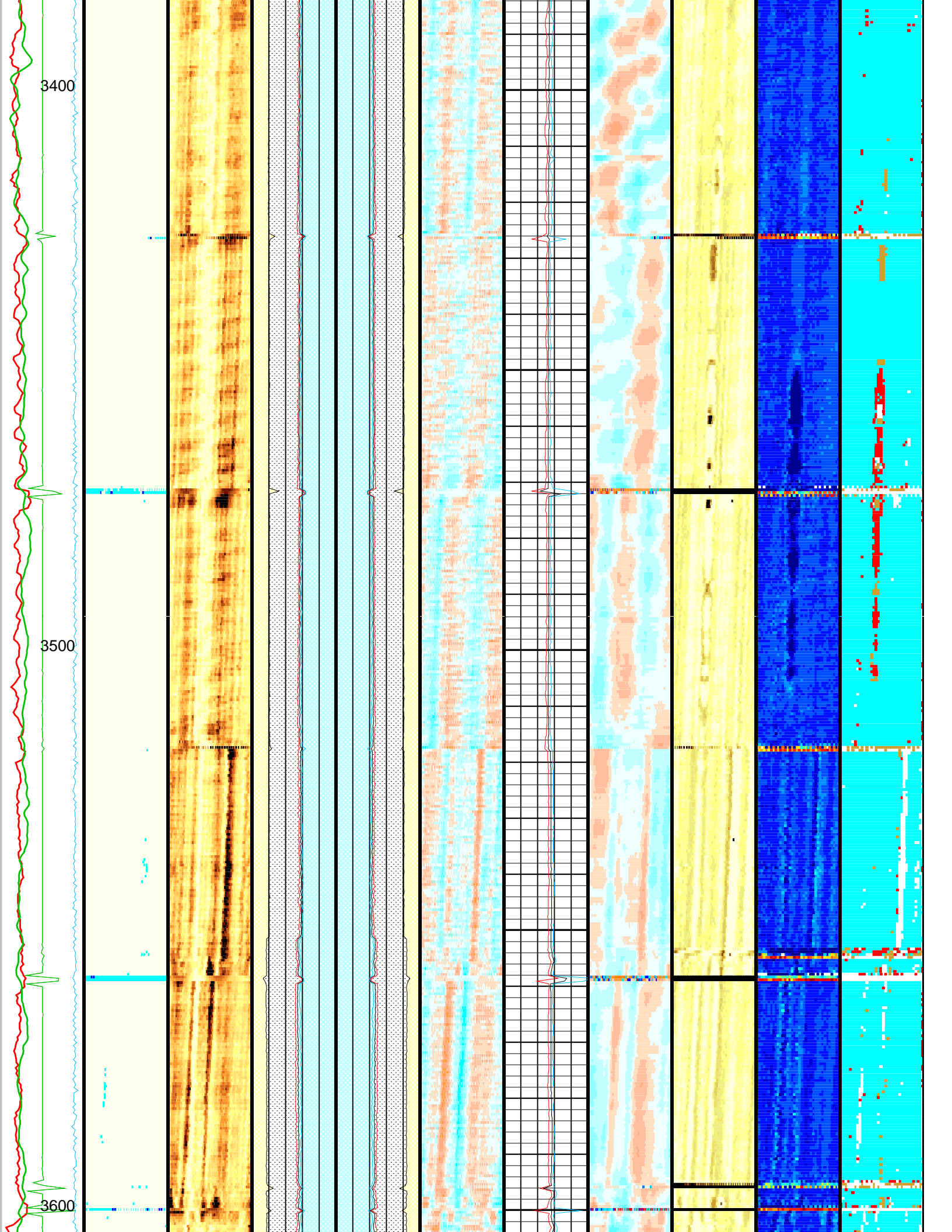
Flexural Attenuation (U-USIT_UFAK) (DB/M)

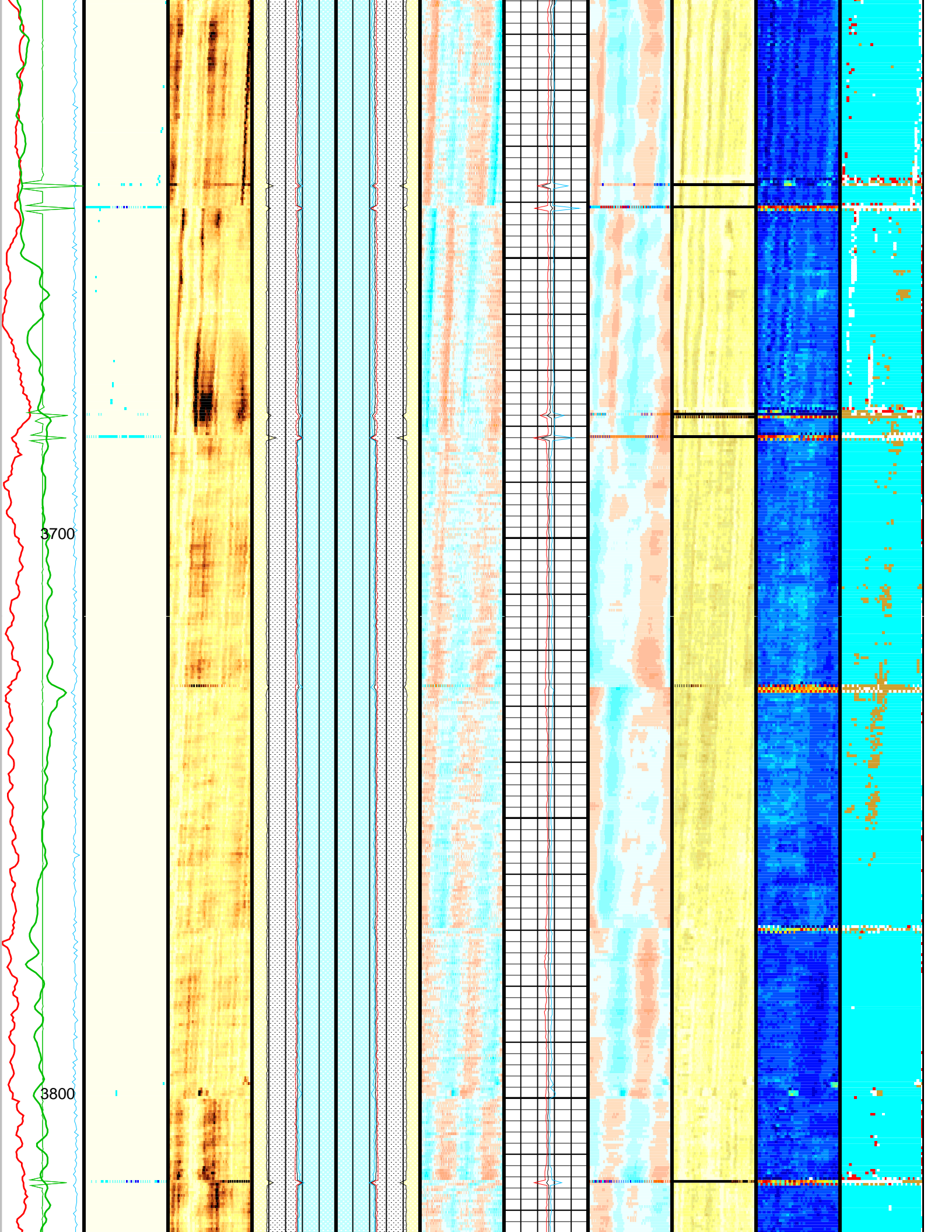


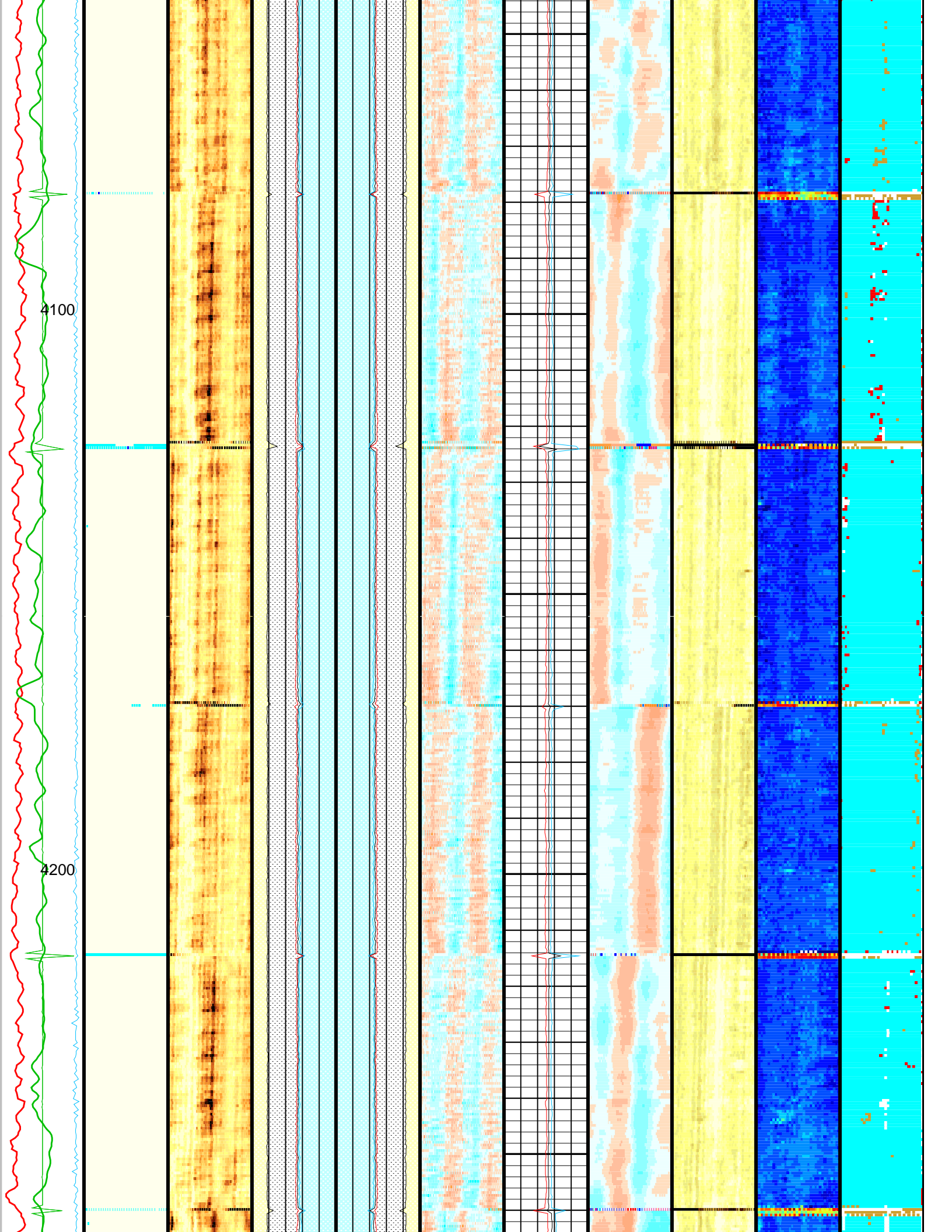
Solid Liquid Gas Map (U-USIT_USLP) (----)

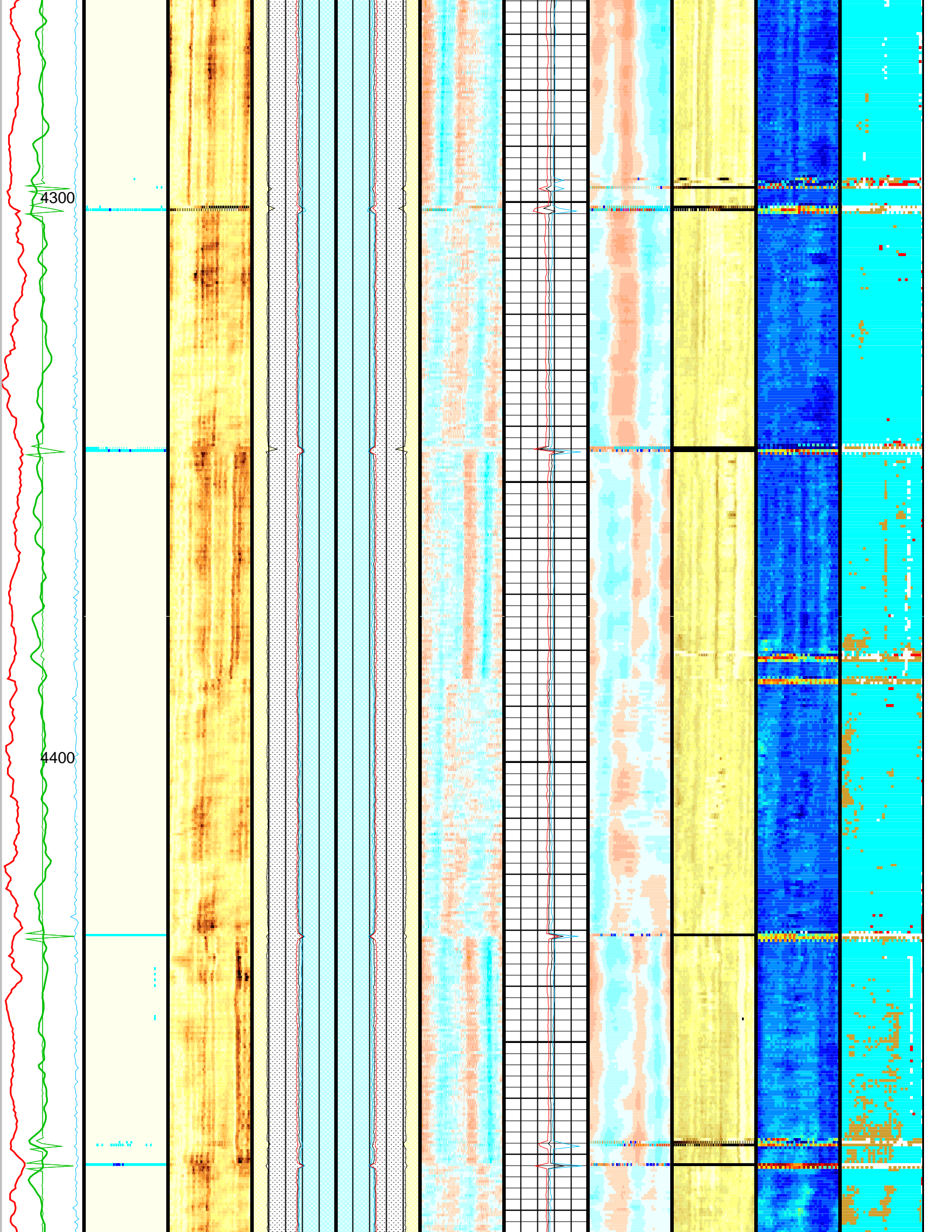


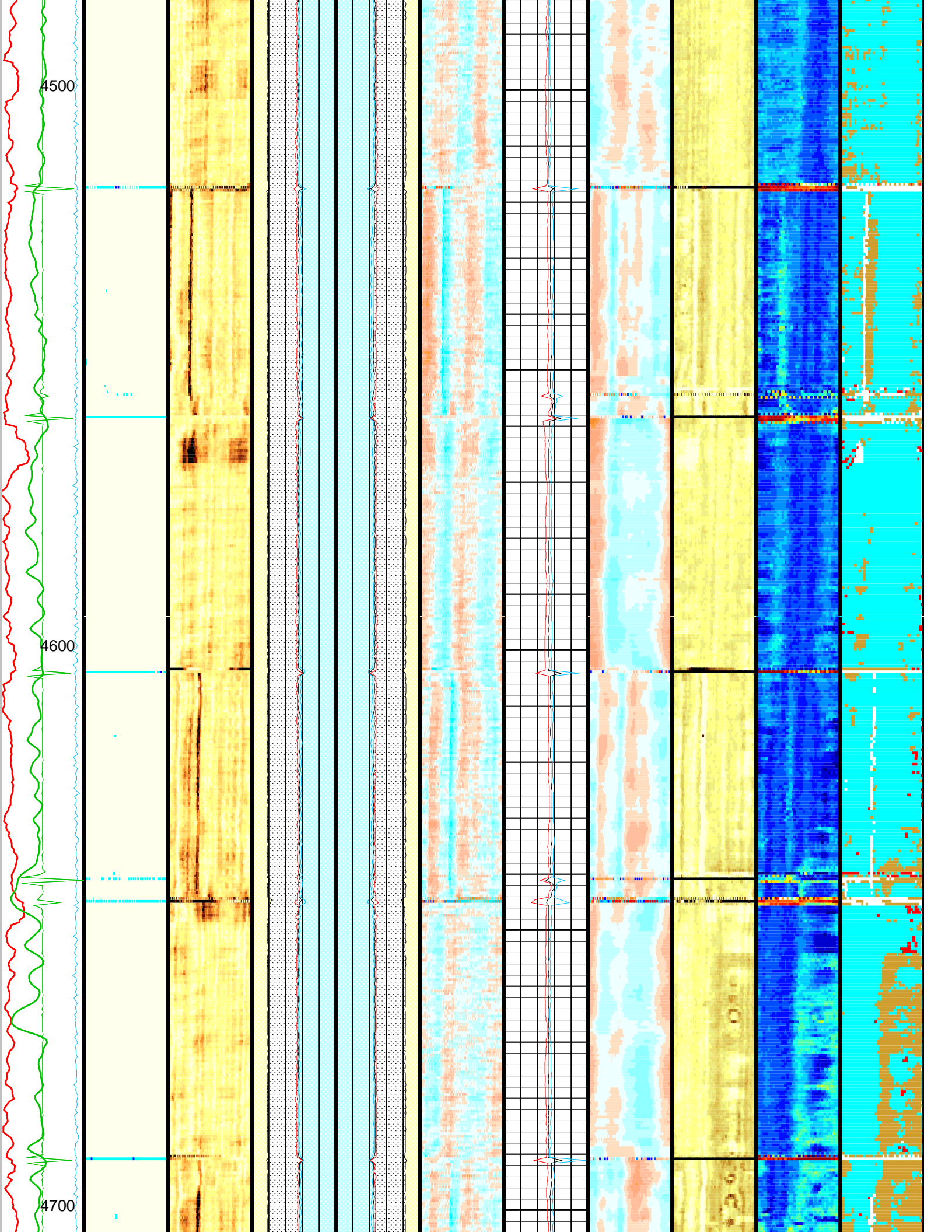


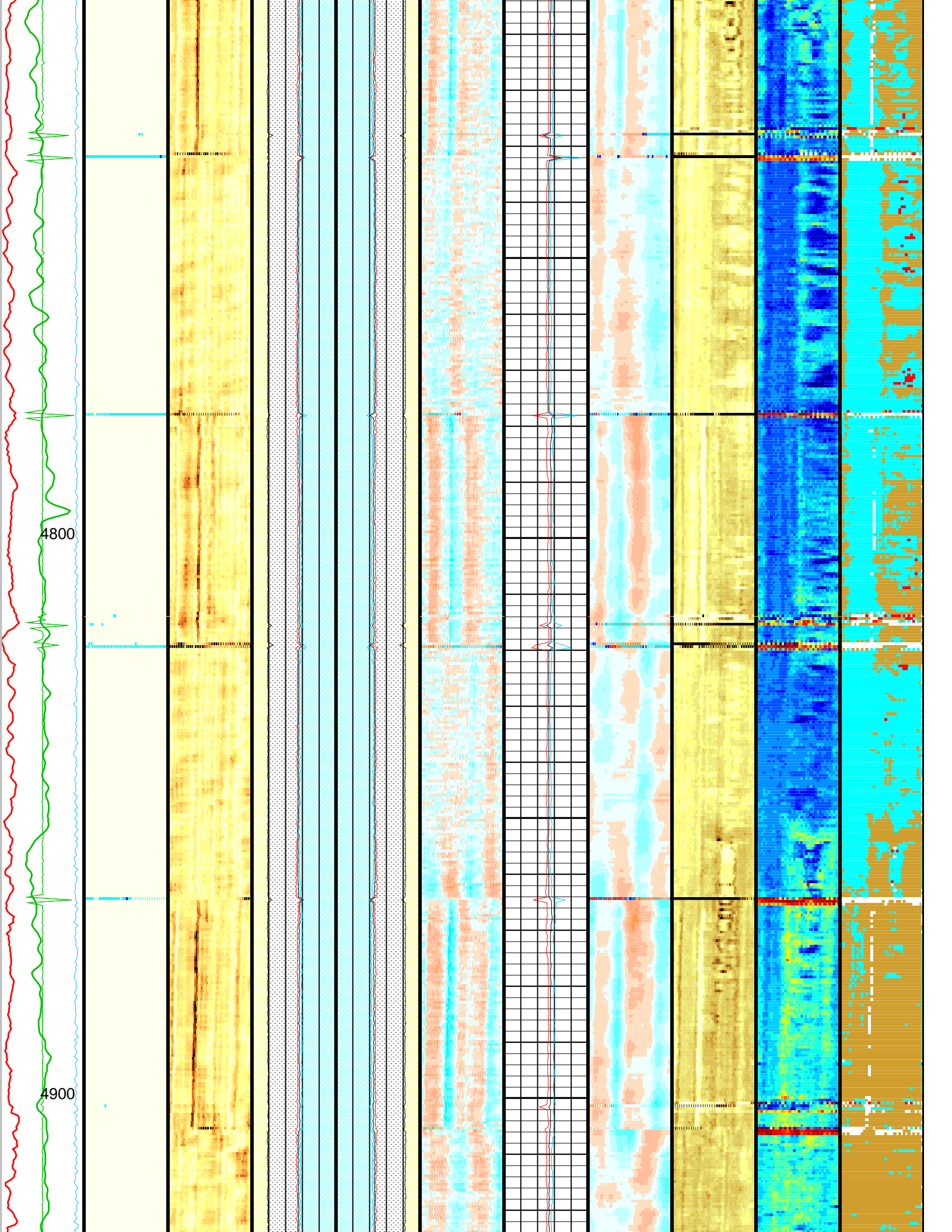


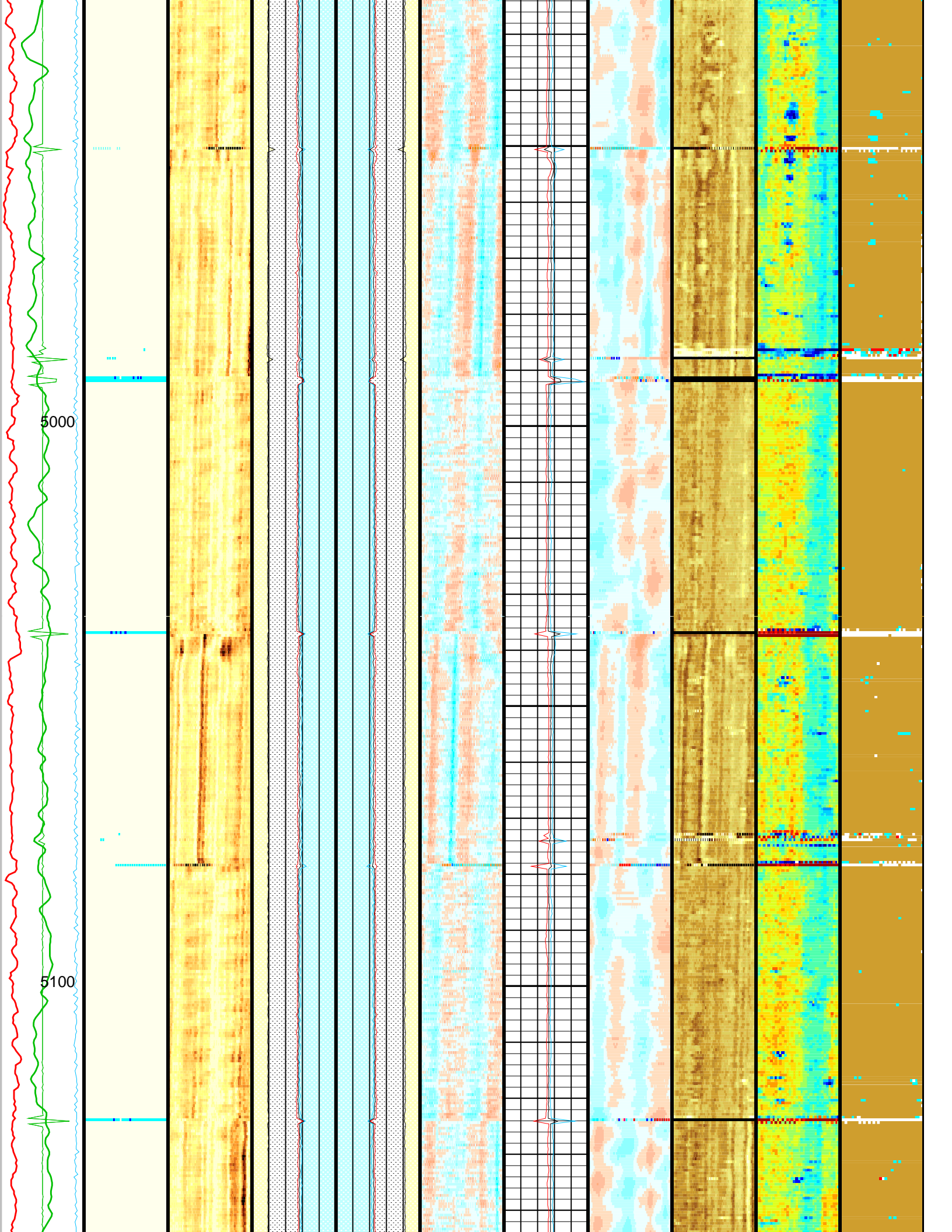


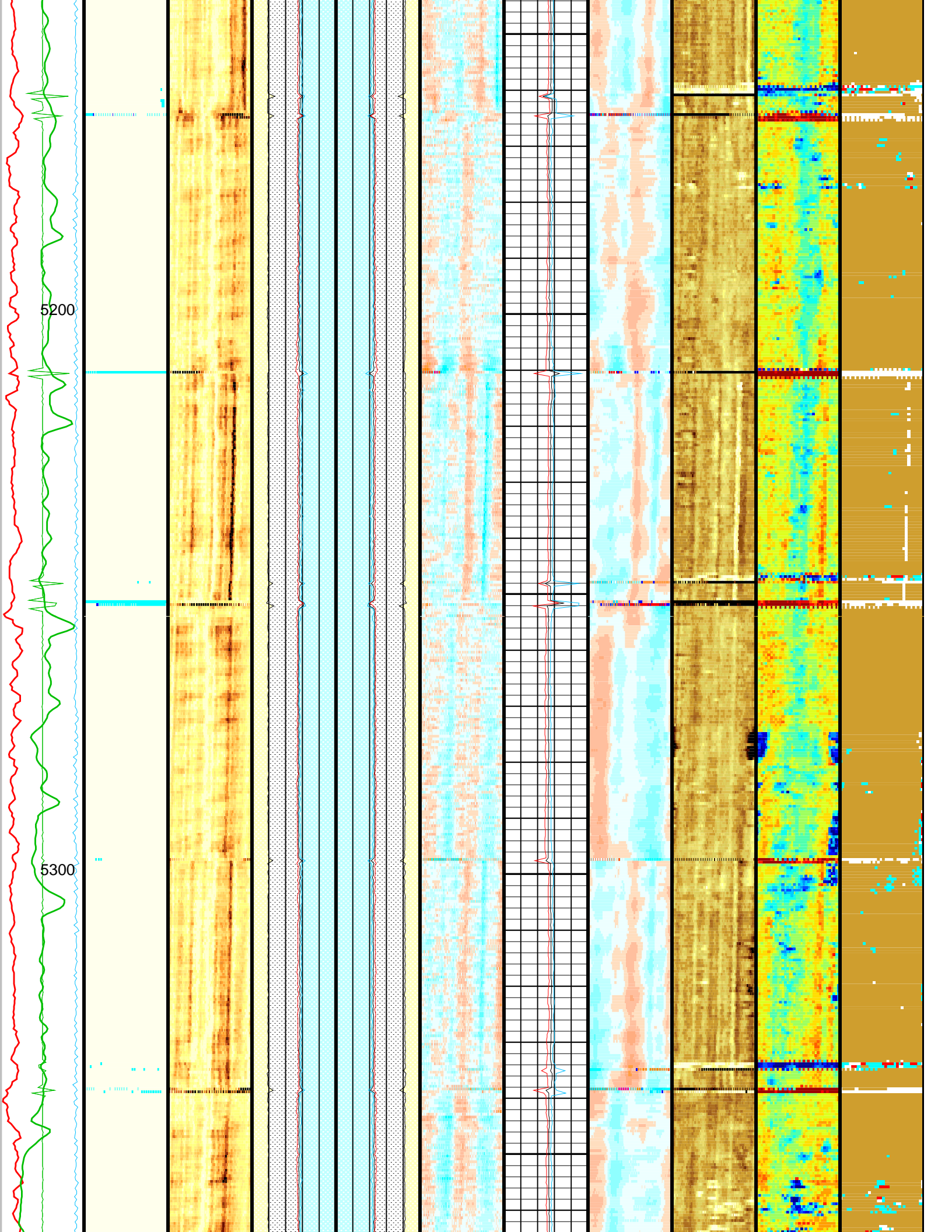


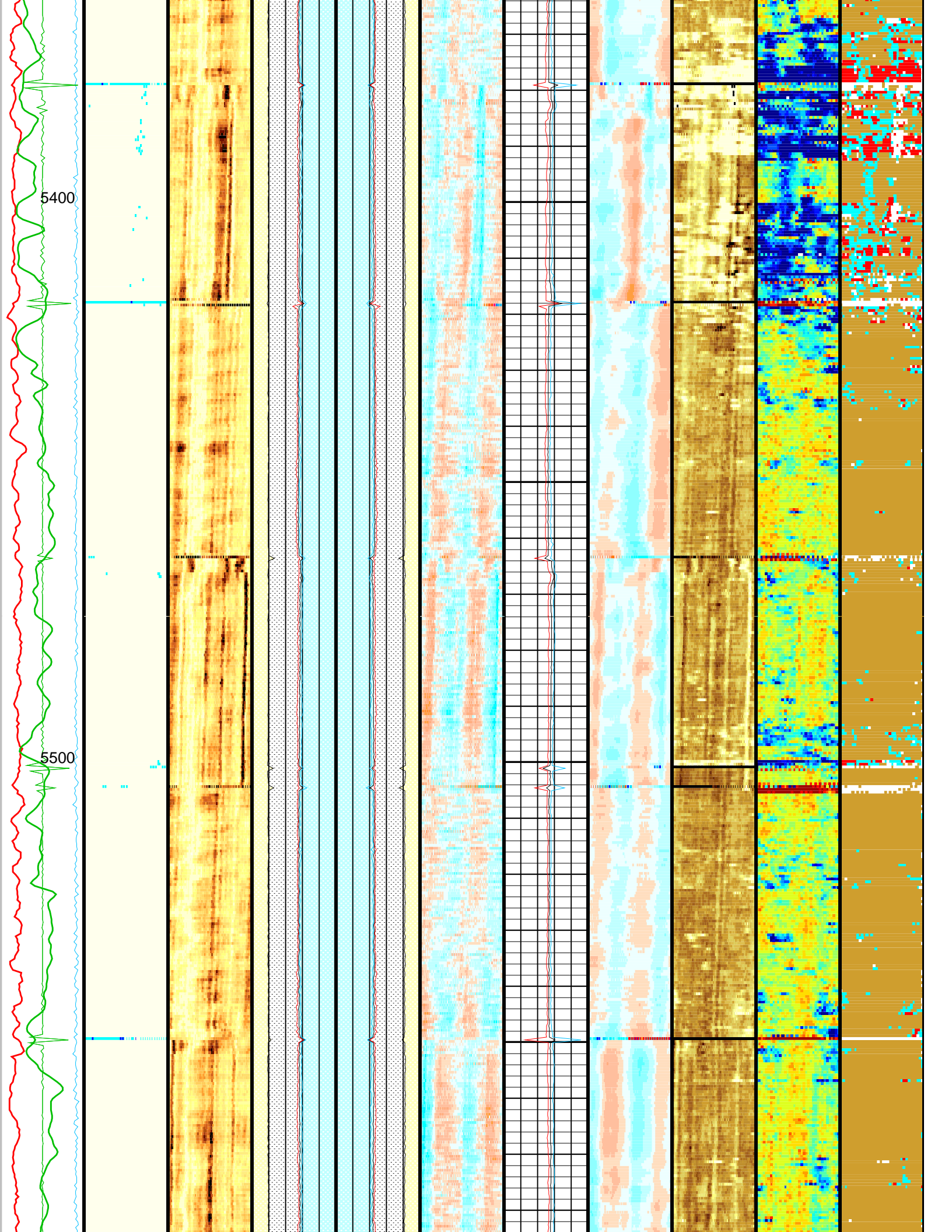


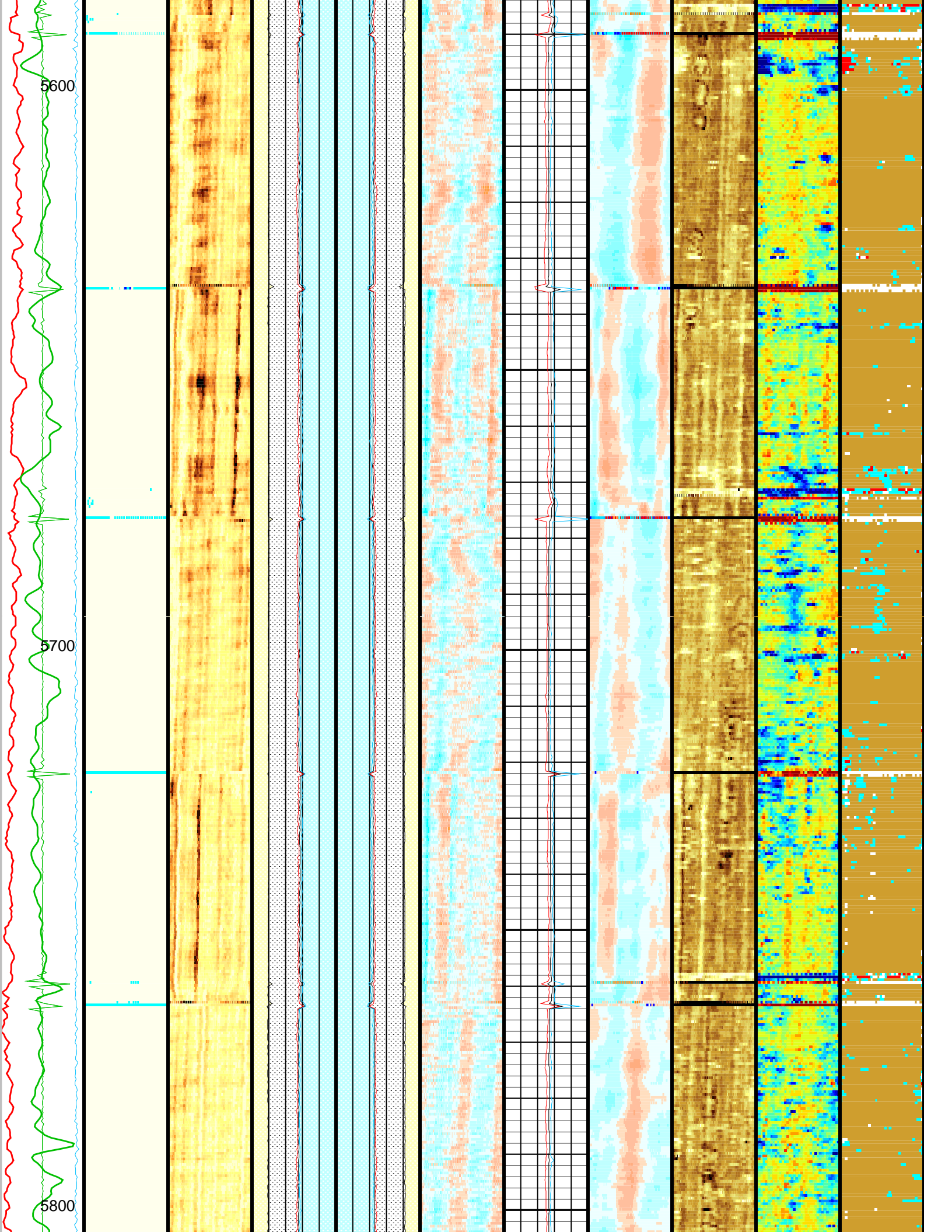


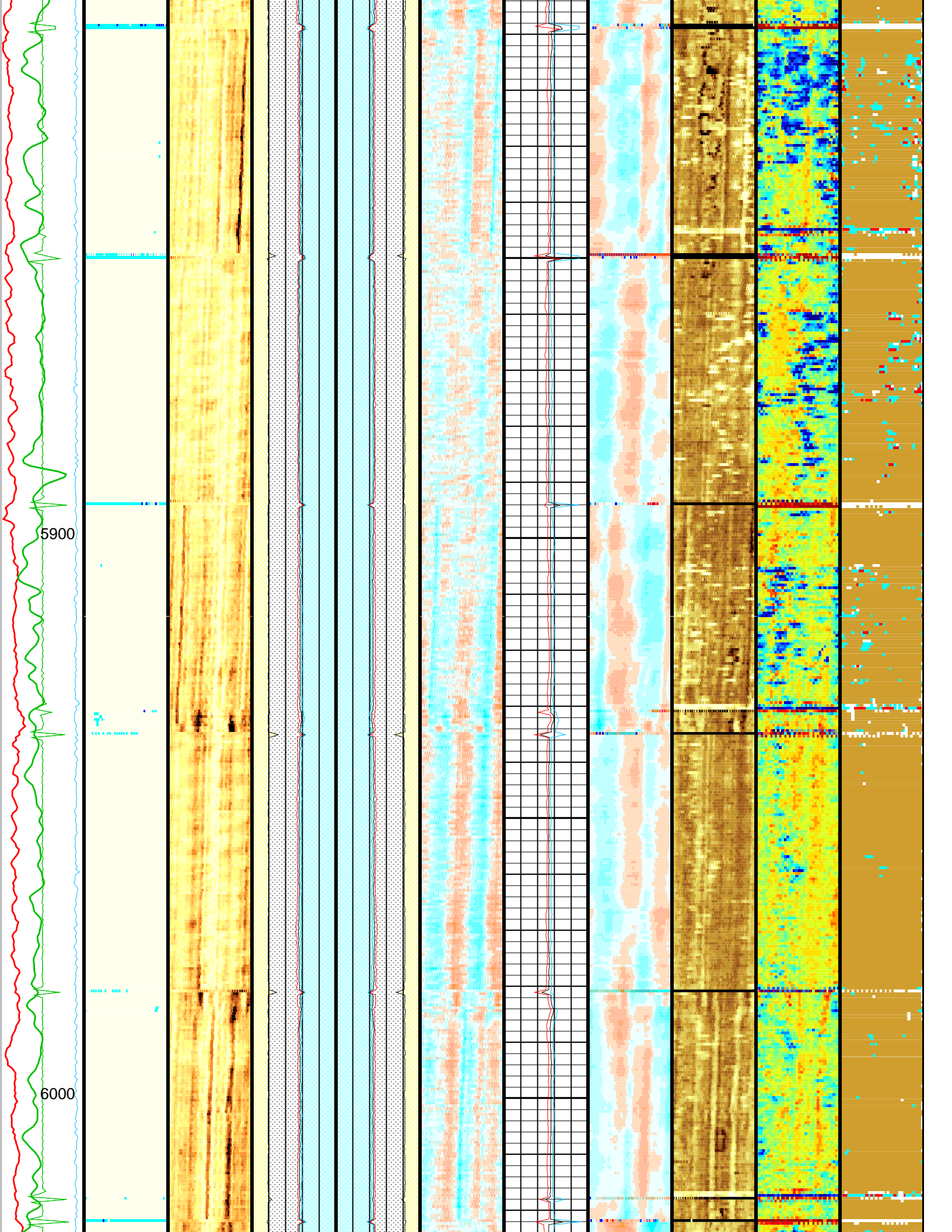


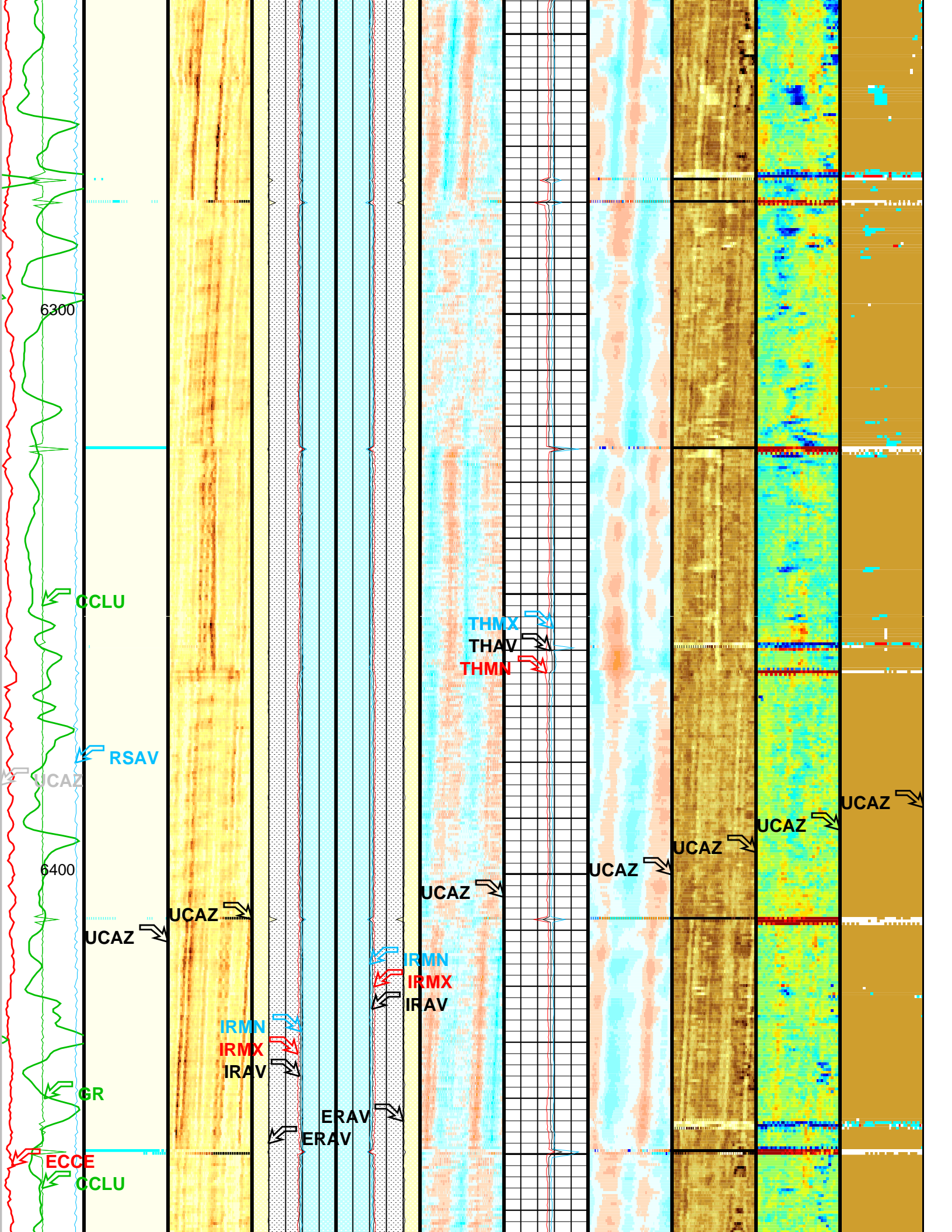


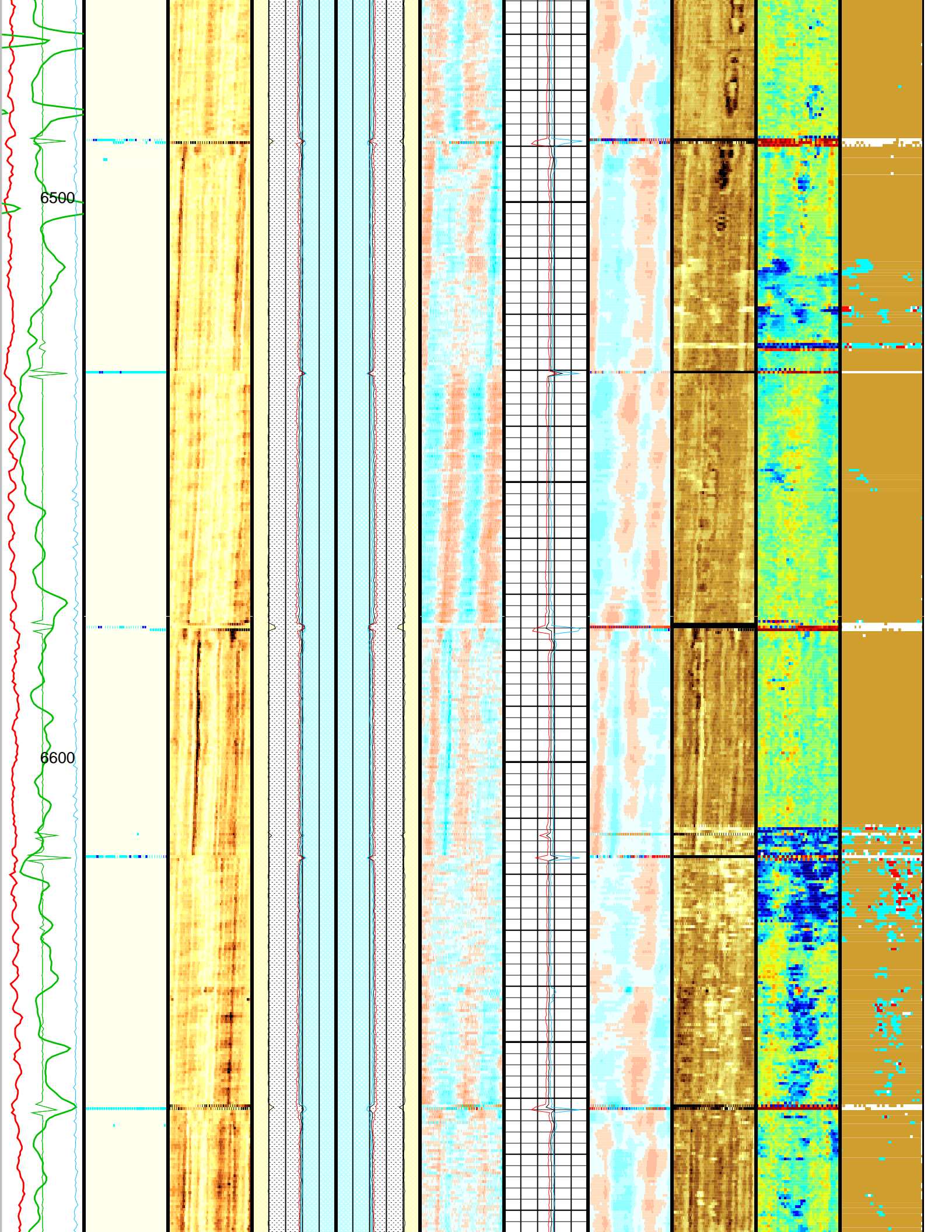


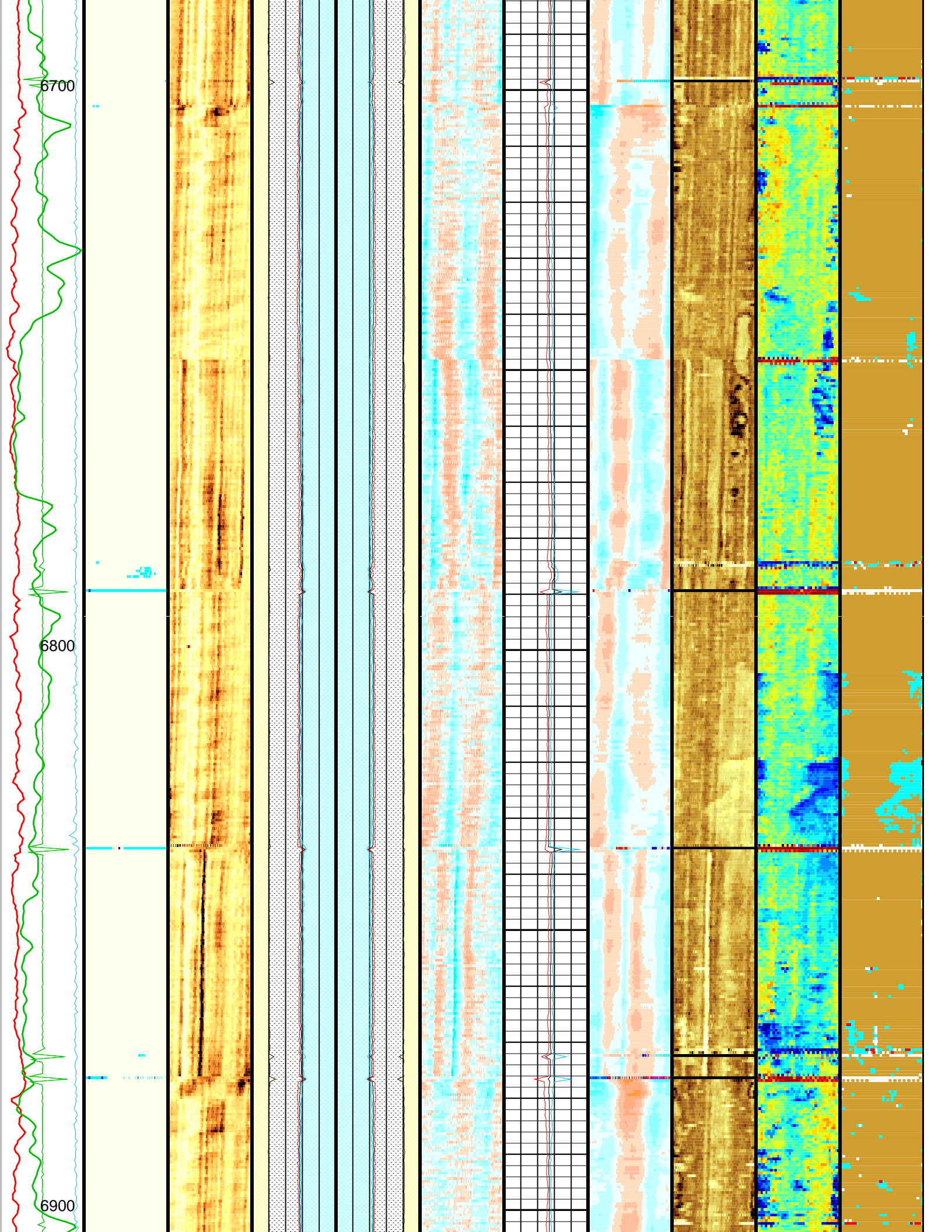


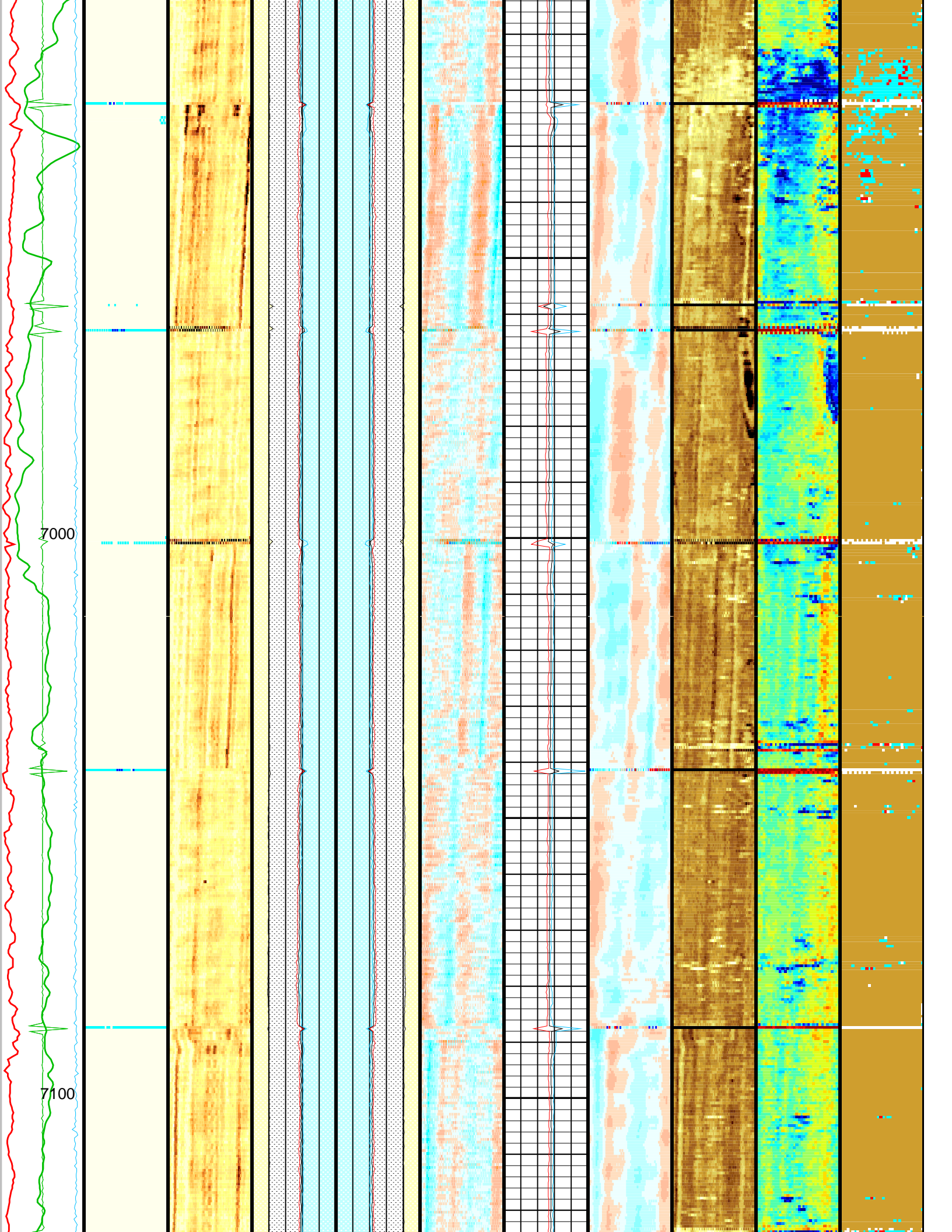


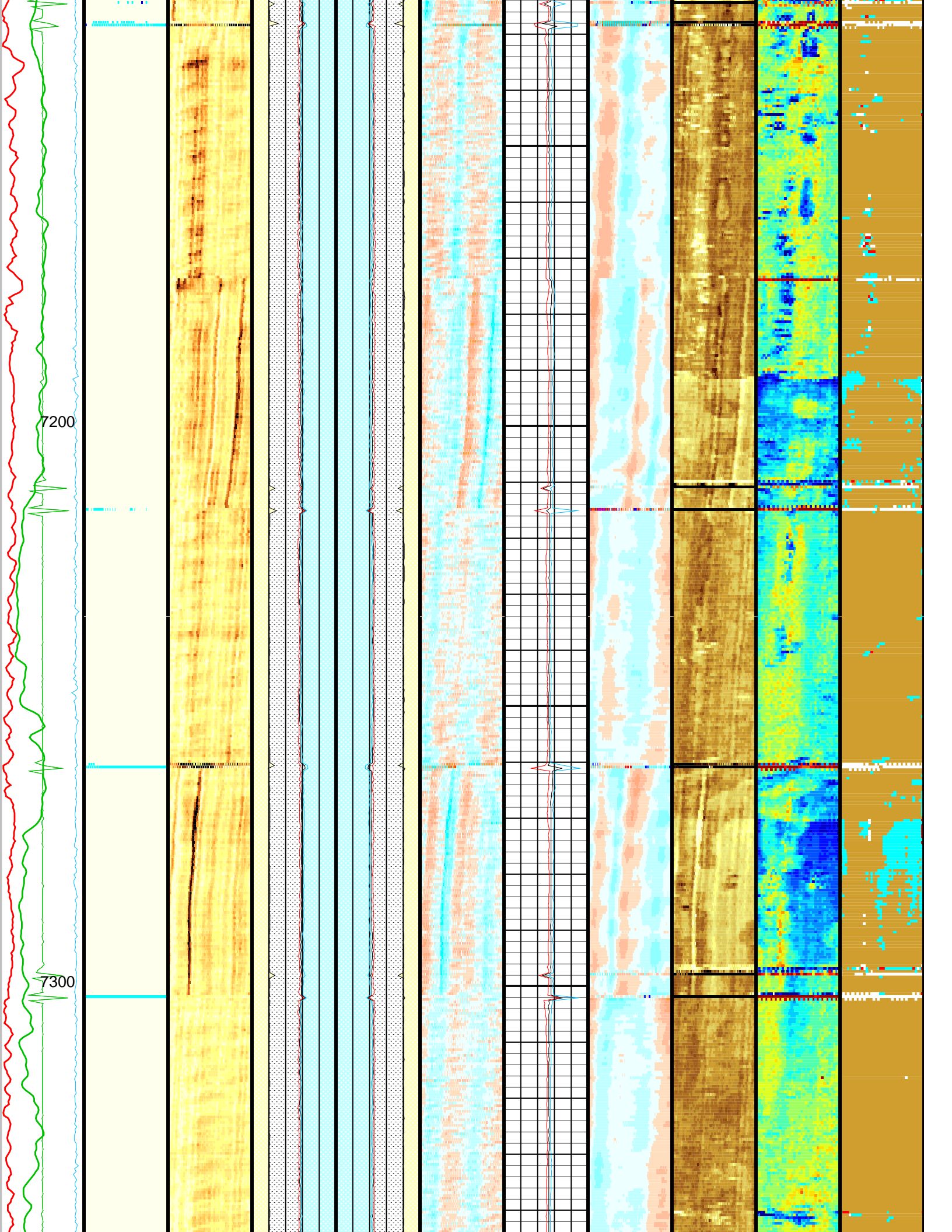


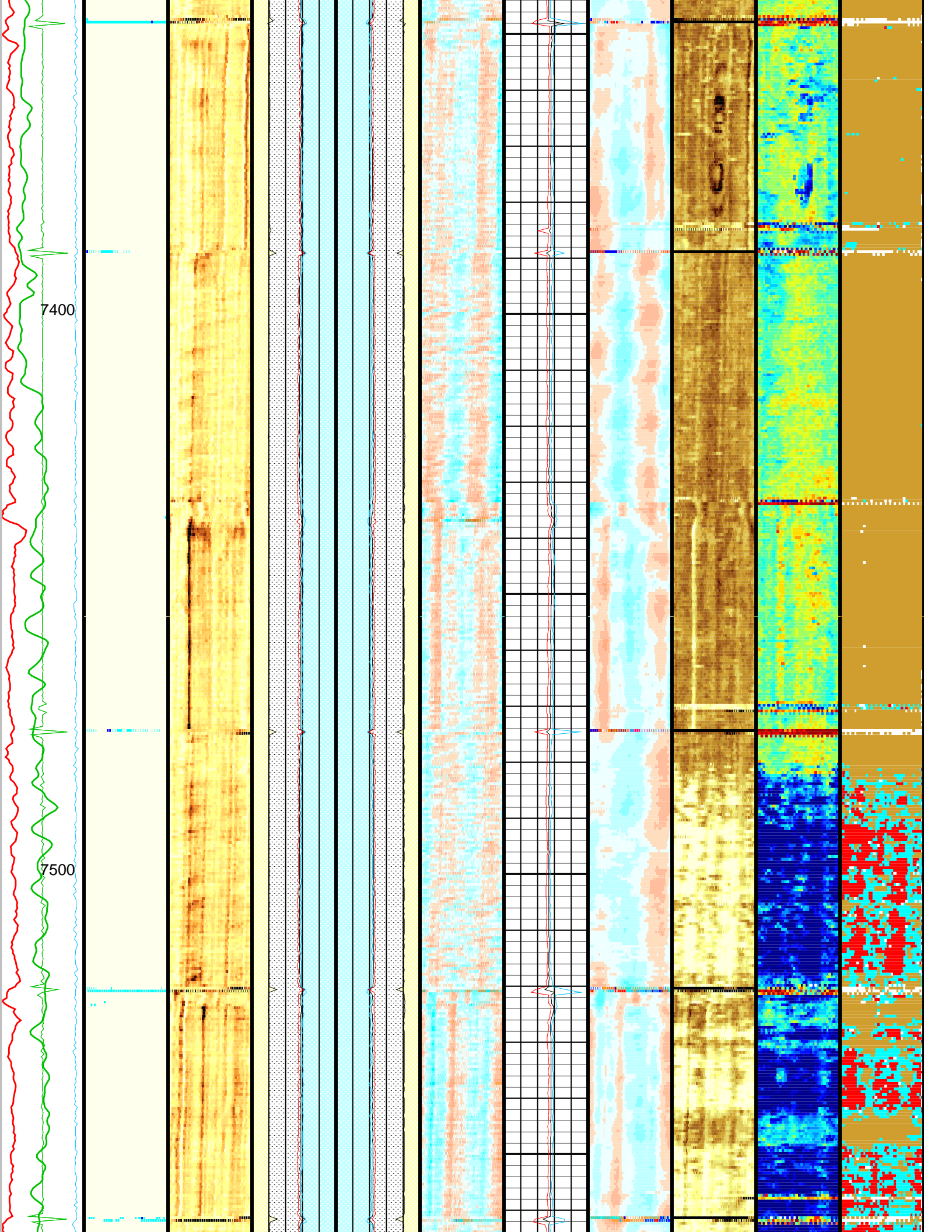


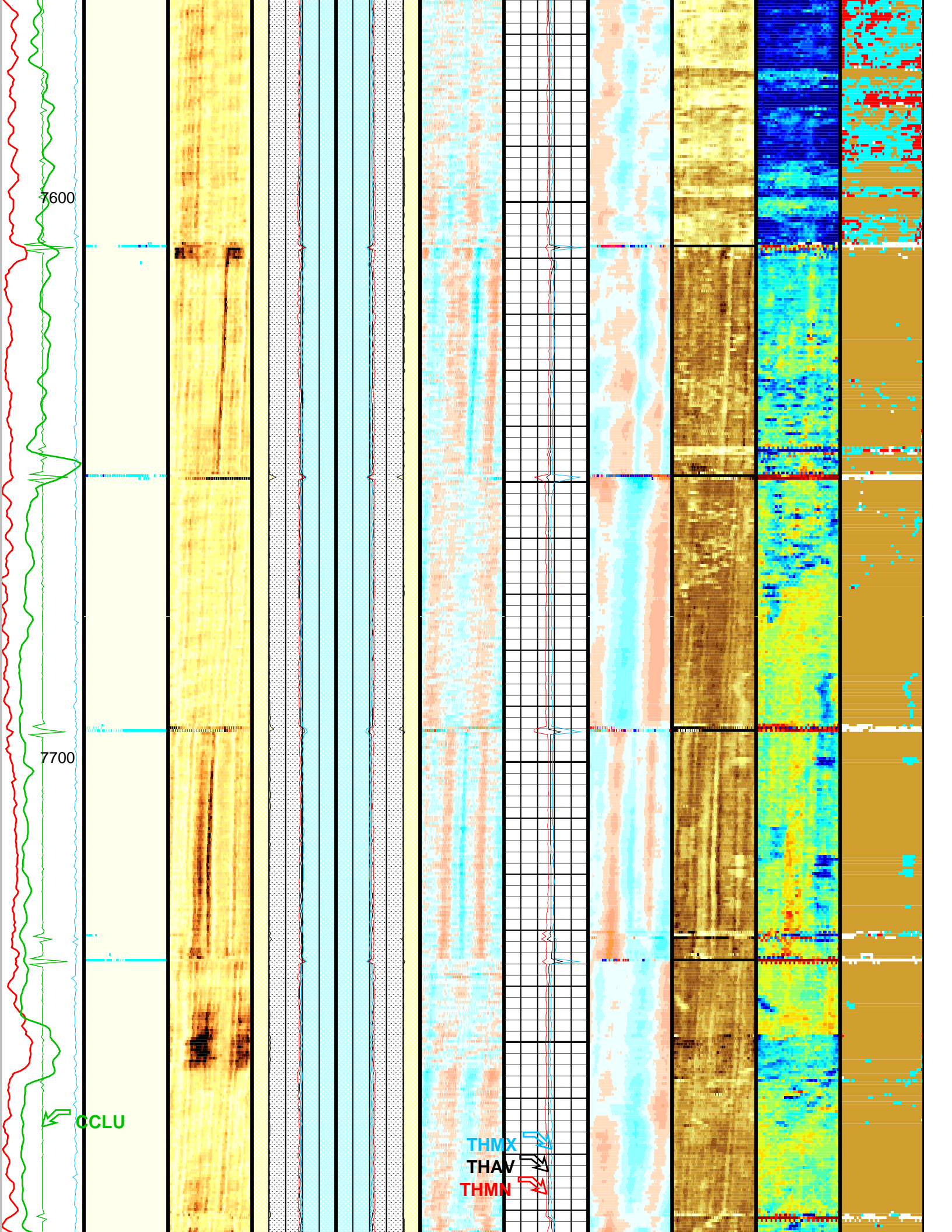


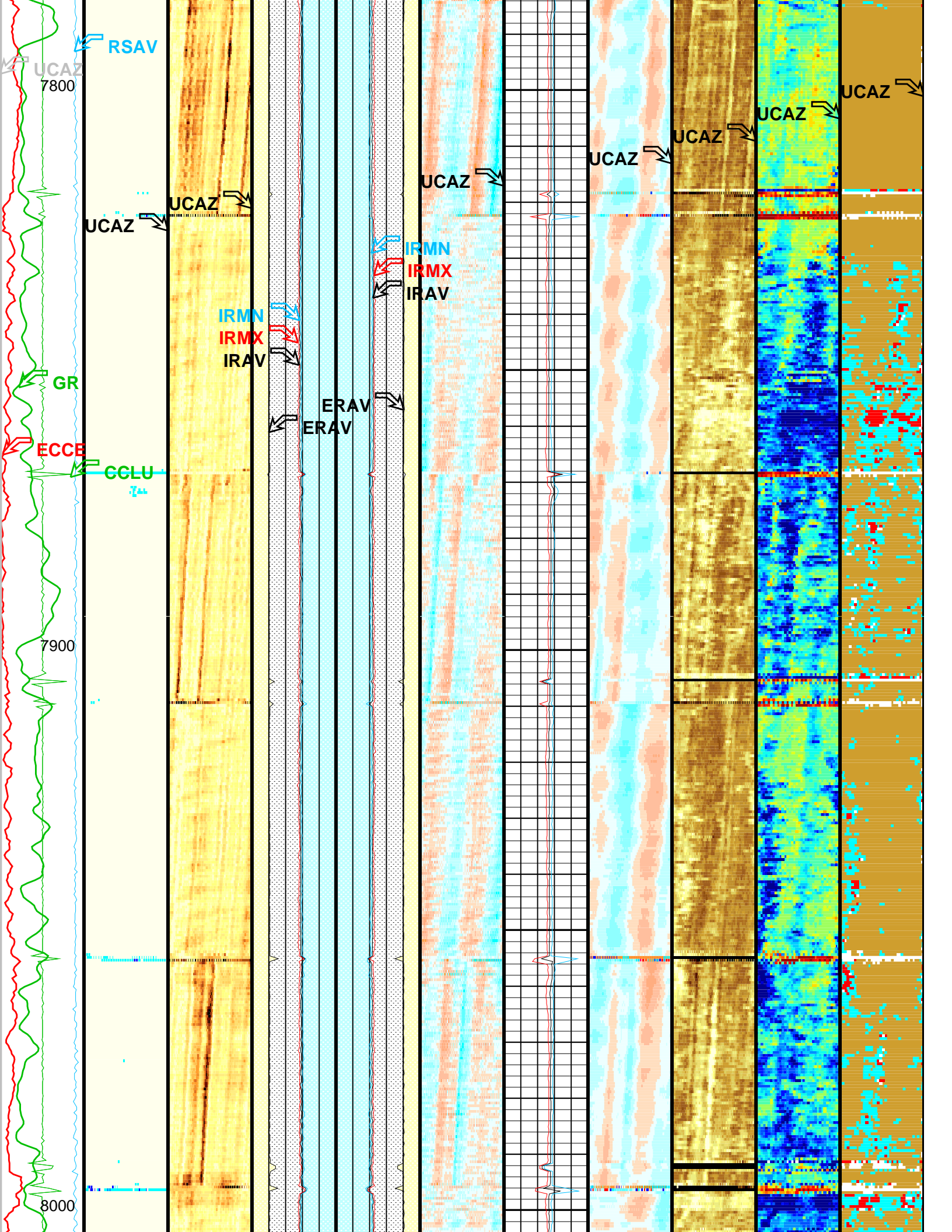


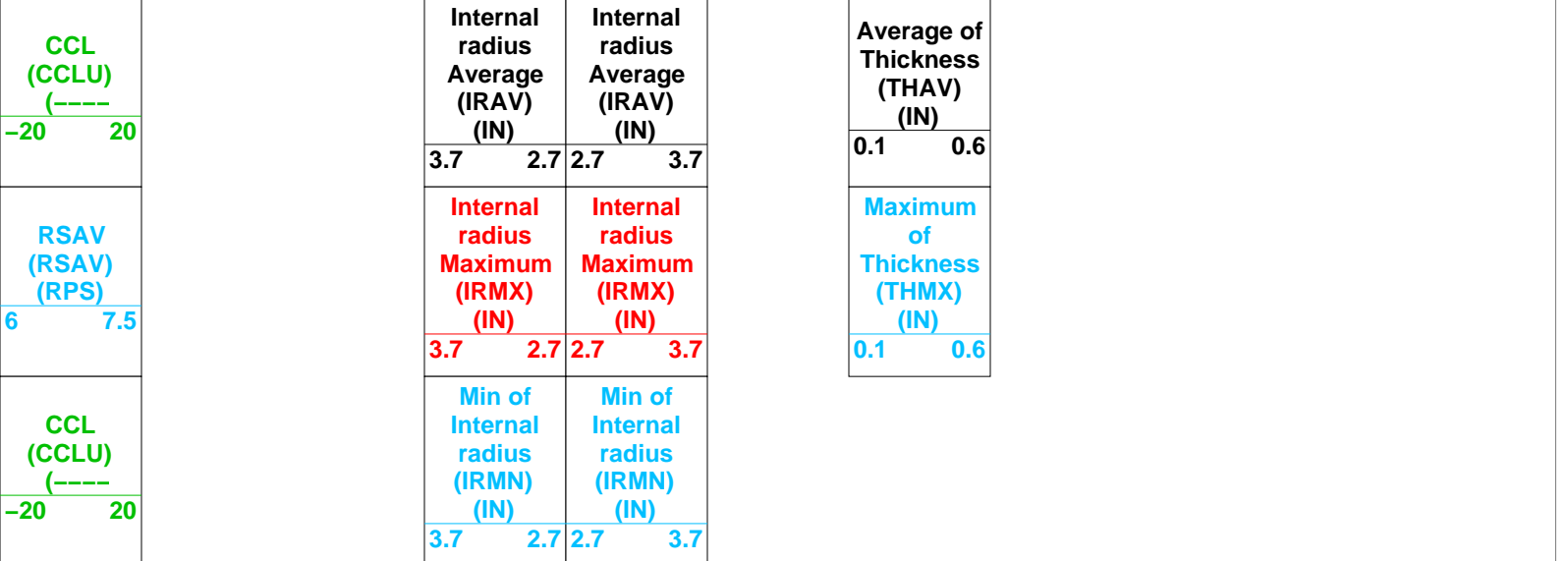
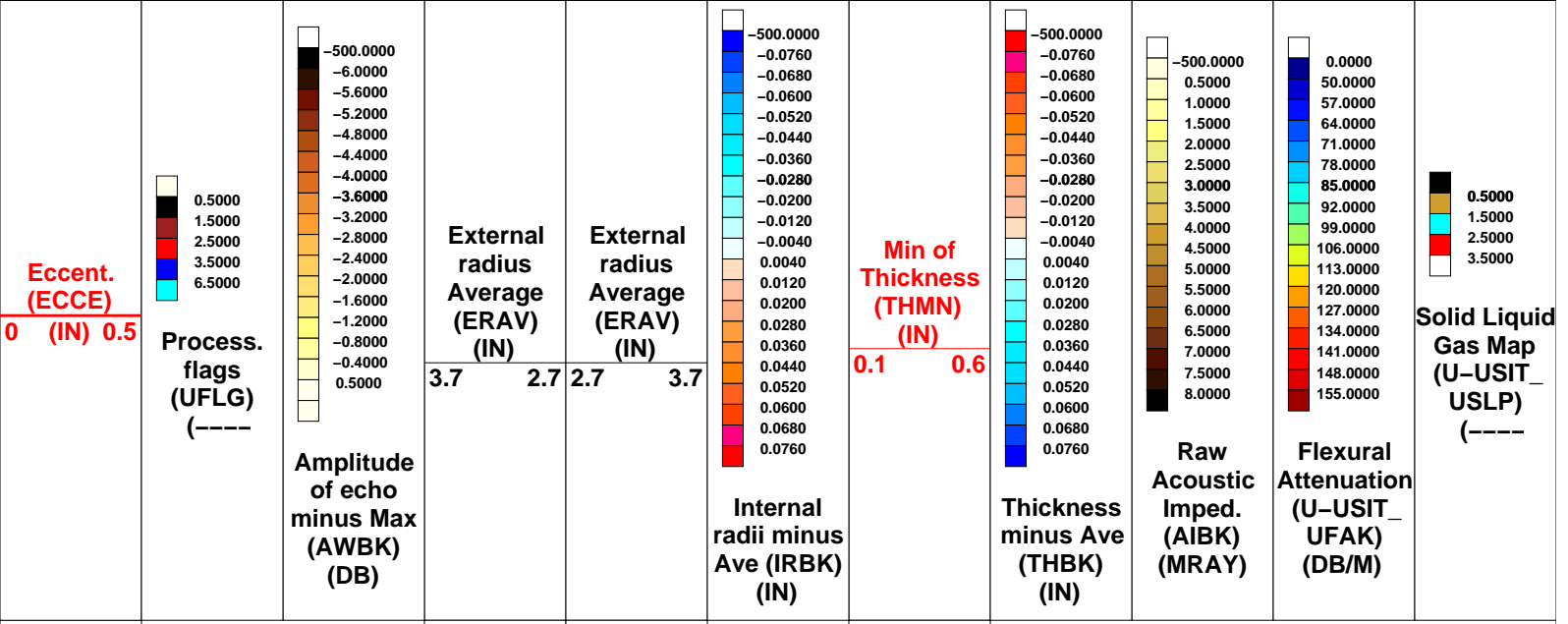
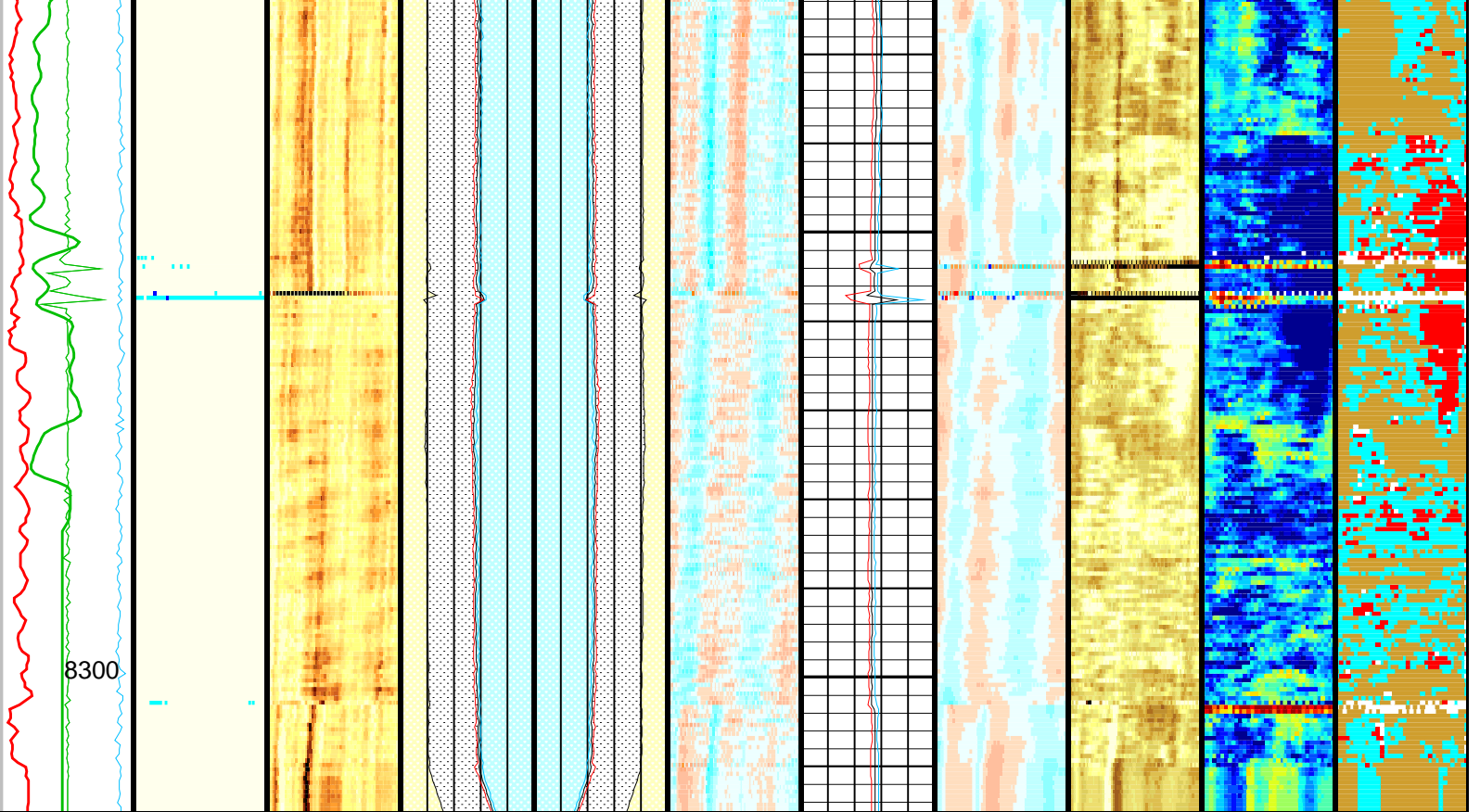












Gamma

Ray (GR) (GAPI)	0	150
Image rotation (UCAZ) (DEG)	0	360

OP System Version: 17C0-154

USIT-D	17C0-154	HILTH-FTB	17C0-154
DTC-H	17C0-154		

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	206	US/F
DOT	Diameter of Transducer Sensor	1.756	IN
EMXV	EMEX Voltage	80	V
FSOD	Fluid Slowness Fits Casing Outer Diameter	5_UFSL_N_ZMUD	
IMAR	Image Rotation	OFF	
MW	Mud Weight	8.4	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)	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	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	-12	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	33_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	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	1.75	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_009 FN:1 PRODUCER 27-Jun-2010 04:26 8315.0 FT 203.5 FT

Output DLIS Files

DEFAULT USI_TLD_MCFL_CNL_012PUP FN:10 PRODUCER 27-Jun-2010 04:33



GOODWIN 0.1 INCH

MAXIS Field Log

Company: EXXONMOBIL PRODUCTION CO.

Well: PCU 197-34A9

Input DLIS Files

DEFAULT SPLICE_USI_TLD_MCFL_009 FN:1 PRODUCER 27-Jun-2010 04:26 8315.0 FT 203.5 FT

Output DLIS Files

DEFAULT USI_TLD_MCFL_CNL_012PUP FN:10 PRODUCER 27-Jun-2010 04:33

OP System Version: 17C0-154

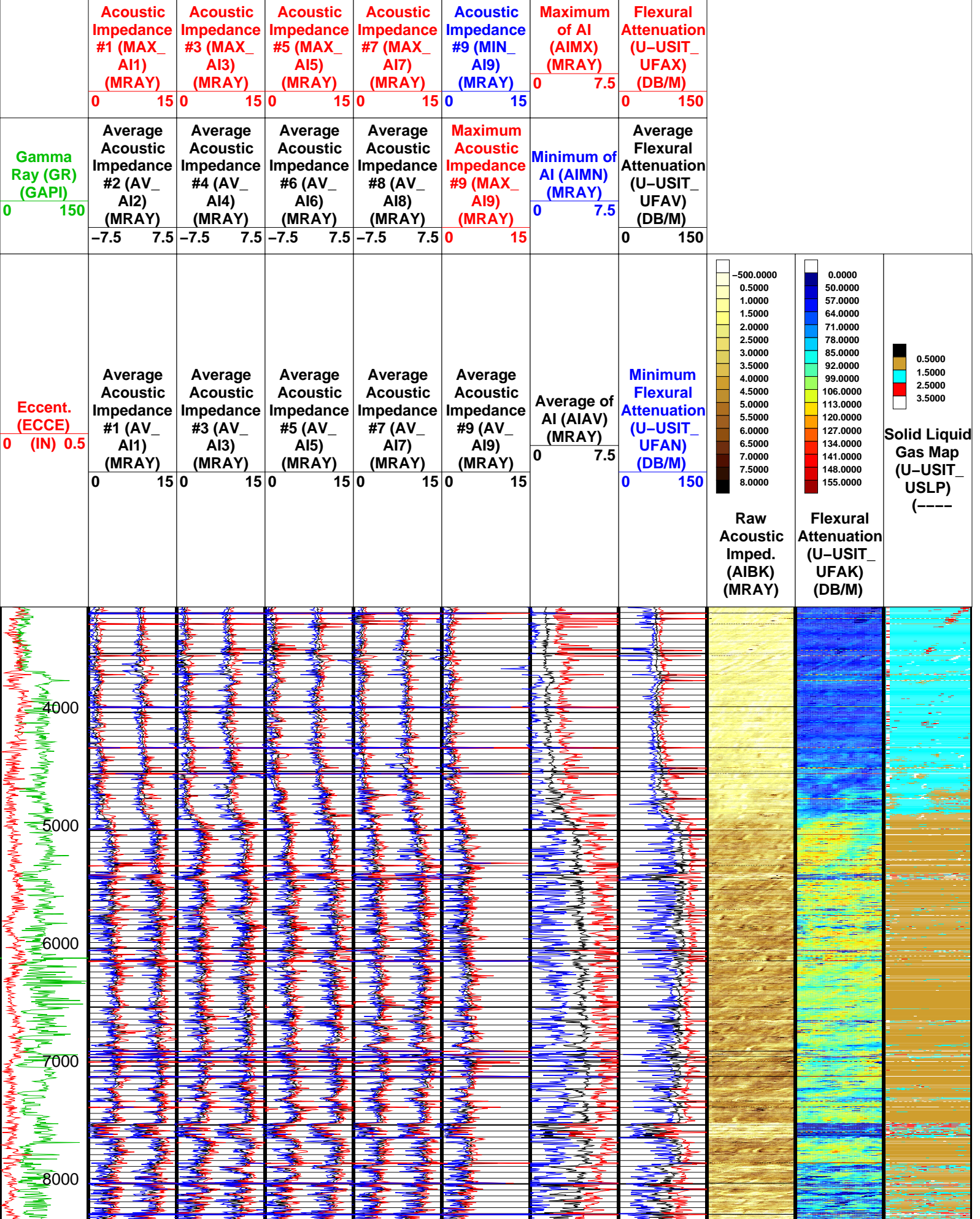
USIT-D 17C0-154 HILTH-FTB 17C0-154
DTC-H 17C0-154

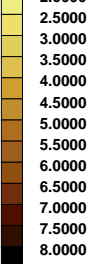
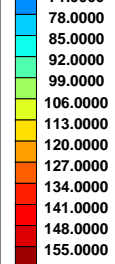
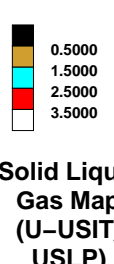
Minimum Acoustic Impedance #2 (MIN_ AI2) (MRAY)	Minimum Acoustic Impedance #4 (MIN_ AI4) (MRAY)	Minimum Acoustic Impedance #6 (MIN_ AI6) (MRAY)	Minimum Acoustic Impedance #8 (MIN_ AI8) (MRAY)
-7.5 7.5	-7.5 7.5	-7.5 7.5	-7.5 7.5

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

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

Maximum	Maximum	Maximum	Maximum	Minimum	Maximum
---------	---------	---------	---------	---------	---------



Eccent. (ECCE) (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)	  
	0 15	0 15	0 15	0 15	0 15	0 7.5	0 150	

Gamma Ray (GR) (GAPI)	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)			
	-7.5 7.5	-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: 27-Jun-2010 04:33

OP System Version: 17C0-154

USIT-D	17C0-154	HILTH-FTB	17C0-154
DTC-H	17C0-154		

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.

Input DLIS Files

DEFAULT SPLICE_USI_TLD_MCFL_009 FN:1 PRODUCER 27-Jun-2010 04:26 8315.0 FT 203.5 FT

Output DLIS Files

DEFAULT USI_TLD_MCFL_CNL_012PUP FN:10 PRODUCER 27-Jun-2010 04:33



GOODWIN 5 INCH

MAXIS Field Log

Company: EXXONMOBIL PRODUCTION CO.

Well: PCU 197-34A9

Input DLIS Files

DEFAULT SPLICE_USI_TLD_MCFL_009 FN:1 PRODUCER 27-Jun-2010 04:26 8315.0 FT 203.5 FT

Output DLIS Files

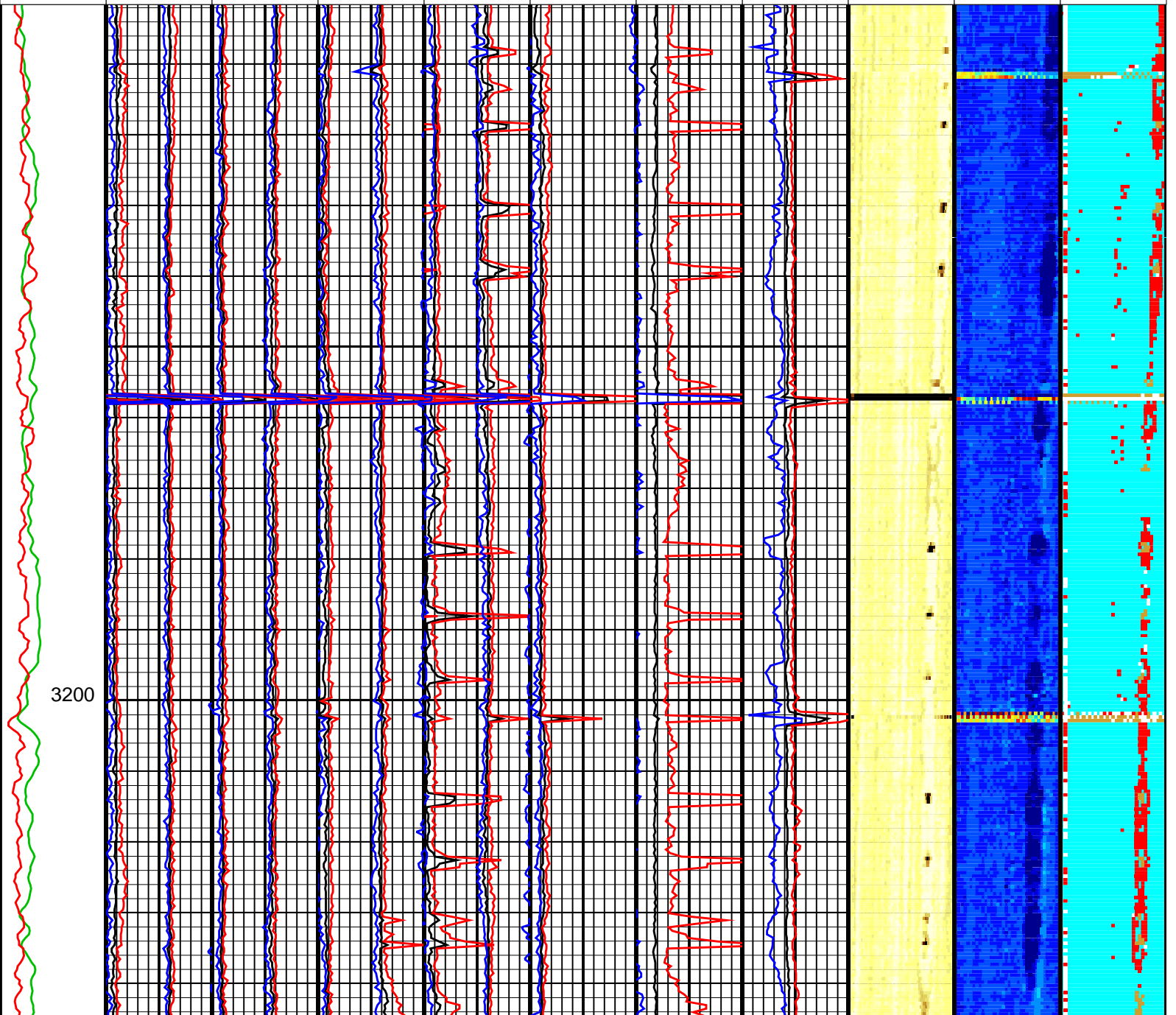
DEFAULT USI_TLD_MCFL_CNL_012PUP FN:10 PRODUCER 27-Jun-2010 04:33

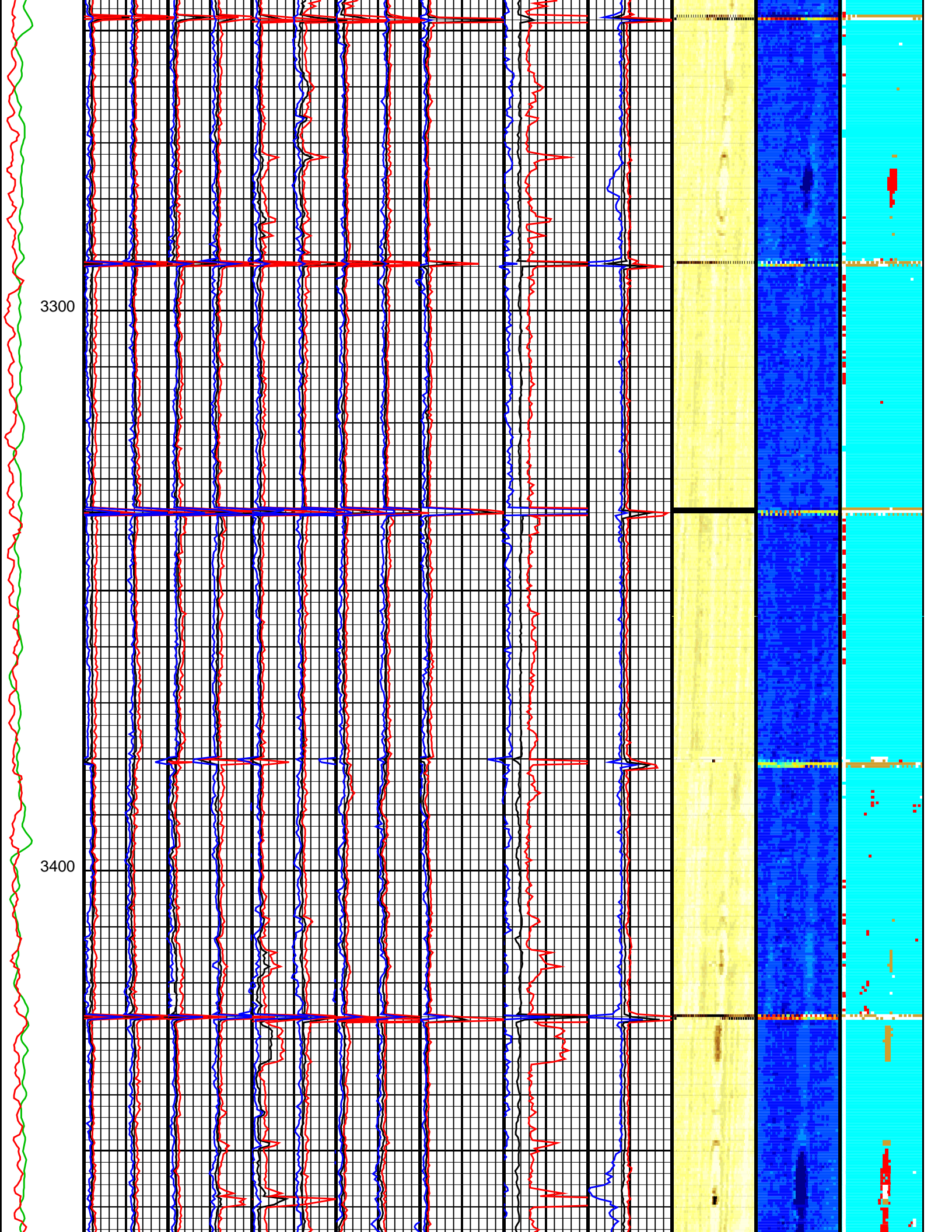
OP System Version: 17C0-154

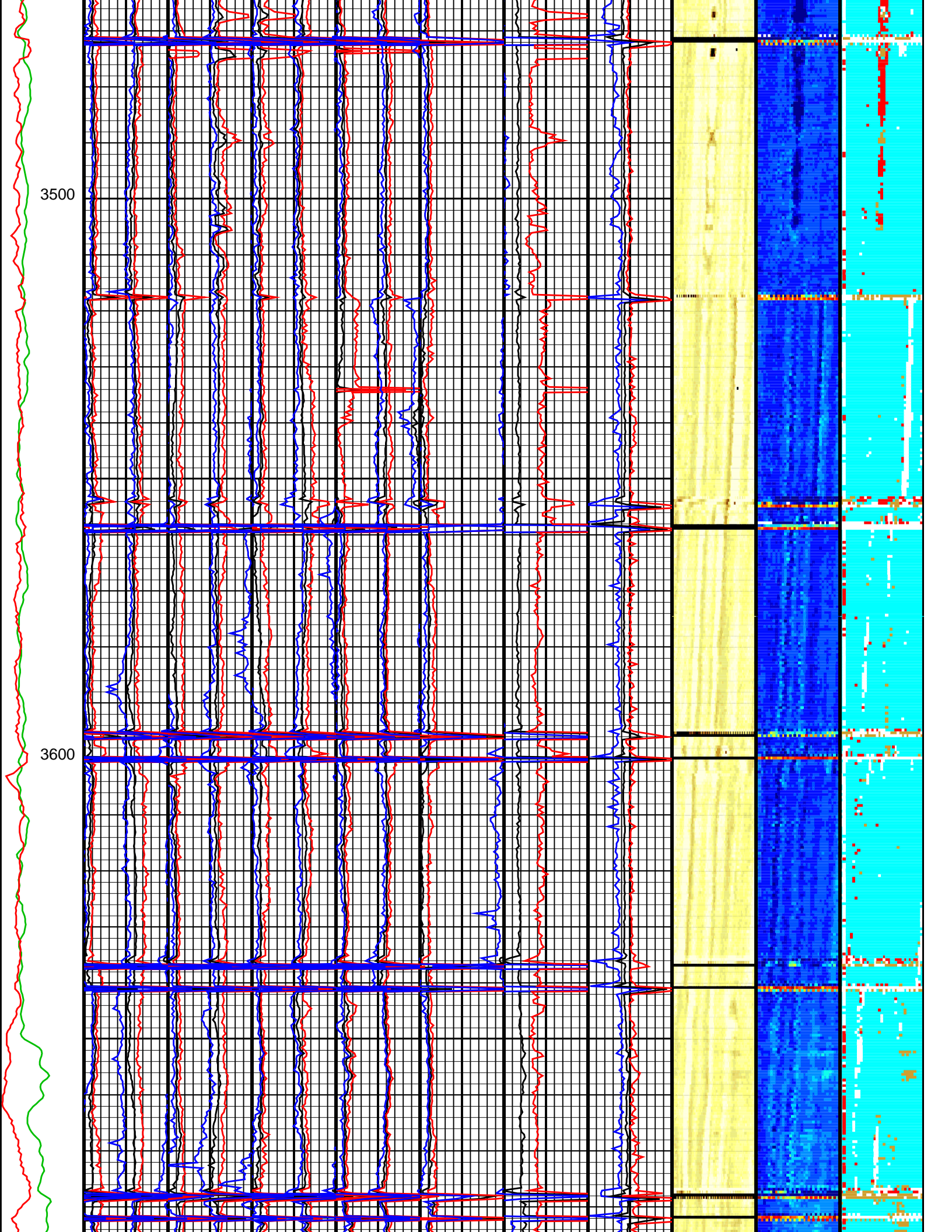
USIT-D	17C0-154	HILTH-FTB	17C0-154
DTC-H	17C0-154		

	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	-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			
	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			
	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
	Average Acoustic	Average Acoustic	Average Acoustic	Average Acoustic	Maximum Acoustic		Average Flexural

Gamma Ray (GR) (GAPI) 0 150	Impedance #2 (AV_ AI2) (MRAY) -7.5 7.5	Impedance #4 (AV_ AI4) (MRAY) -7.5 7.5	Impedance #6 (AV_ AI6) (MRAY) -7.5 7.5	Impedance #8 (AV_ AI8) (MRAY) -7.5 7.5	Impedance #9 (MAX_ AI9) (MRAY) 0 15	Minimum of AI (AIMN) (MRAY) 0 7.5	Attenuation (U-USIT_ UFAV) (DB/M) 0 150			
Eccent. (ECCE) (IN) 0.5 0 150	Average Acoustic Impedance #1 (AV_ AI1) (MRAY) 0 15	Average Acoustic Impedance #3 (AV_ AI3) (MRAY) 0 15	Average Acoustic Impedance #5 (AV_ AI5) (MRAY) 0 15	Average Acoustic Impedance #7 (AV_ AI7) (MRAY) 0 15	Average Acoustic Impedance #9 (AV_ AI9) (MRAY) 0 15	Average of AI (AIAV) (MRAY) 0 7.5	Minimum Flexural Attenuation (U-USIT_ UFAN) (DB/M) 0 150	Raw Acoustic Imped. (AIBK) (MRAY) -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	Flexural Attenuation (U-USIT_ UFAK) (DB/M) 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	Solid Liquid Gas Map (U-USIT_ USLP) (----) 0.5000 1.5000 2.5000 3.5000

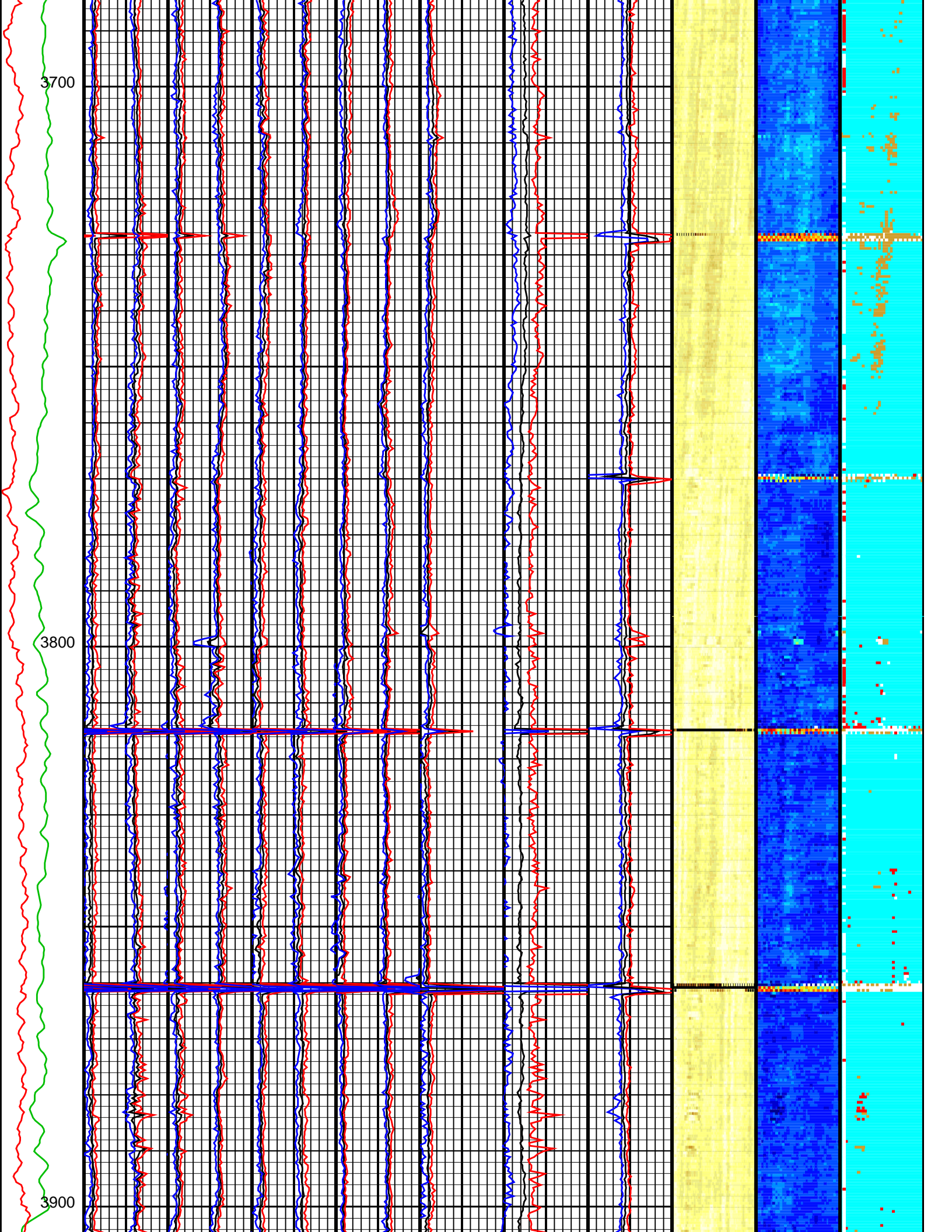


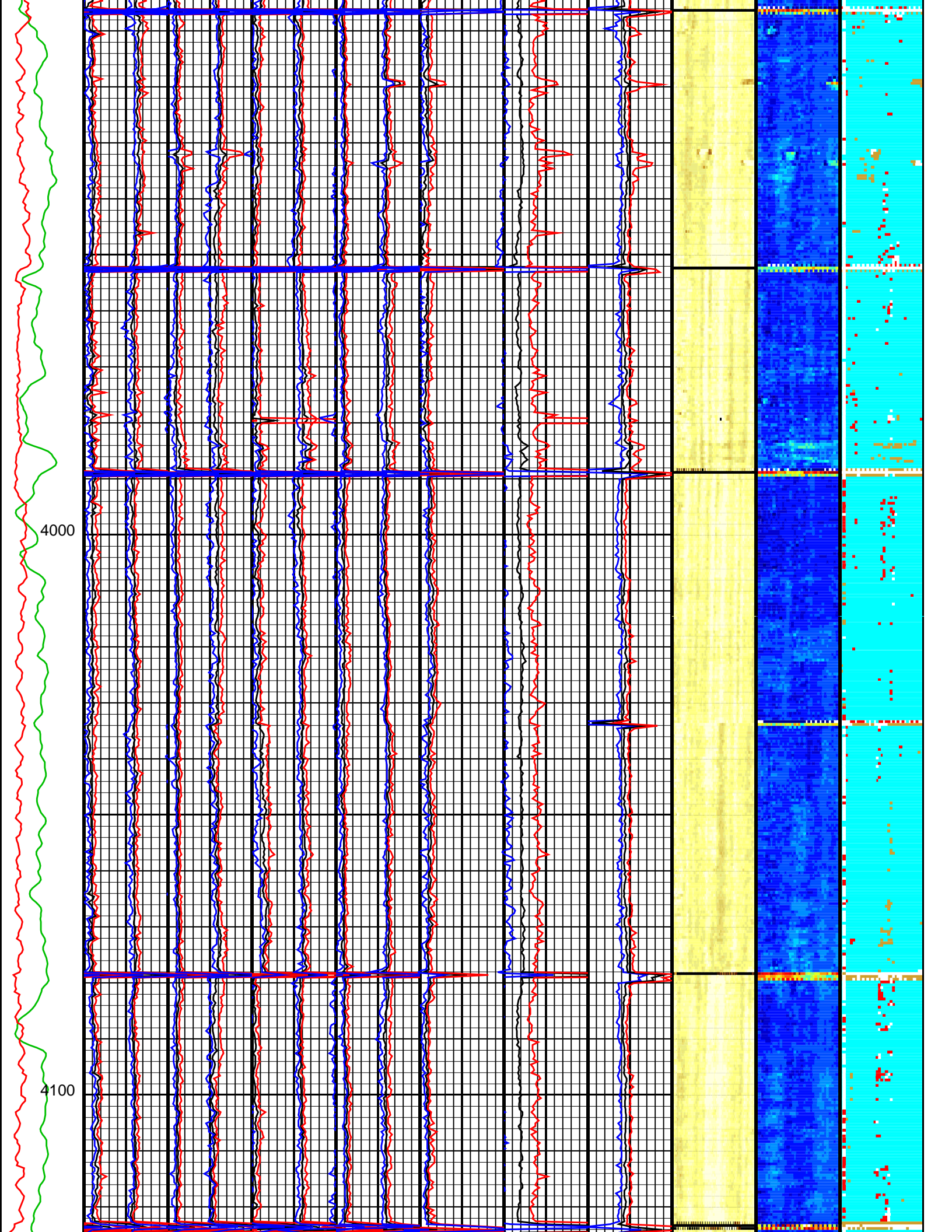


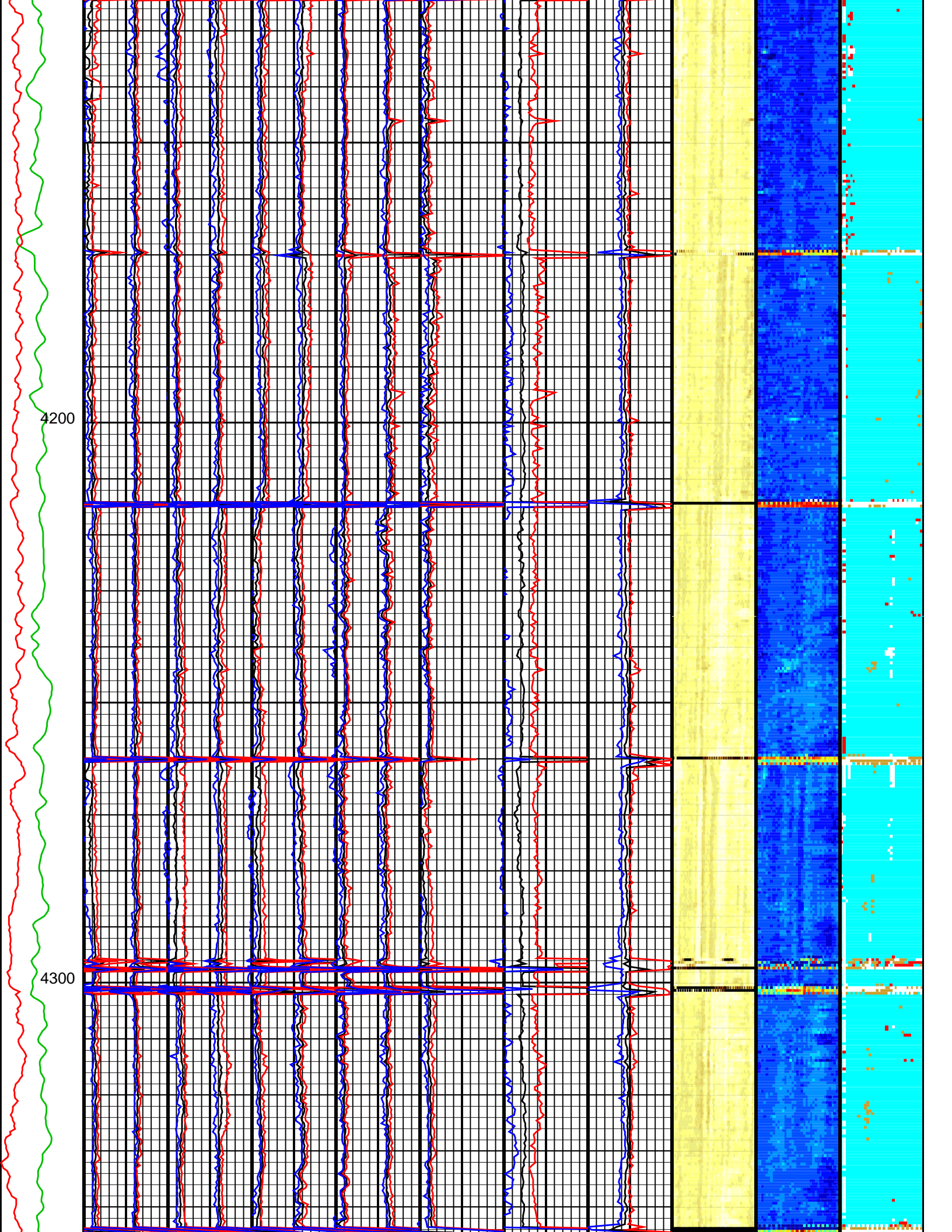


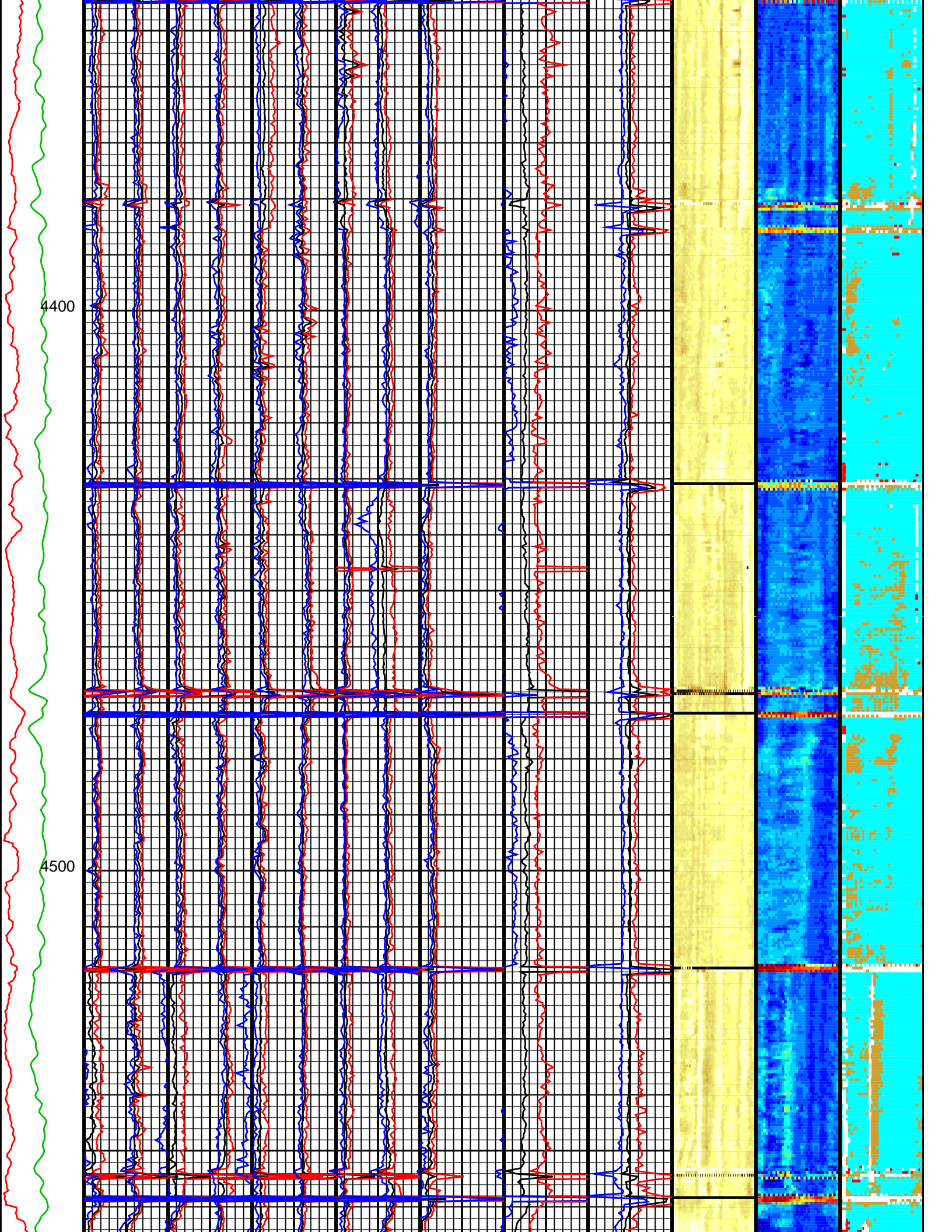
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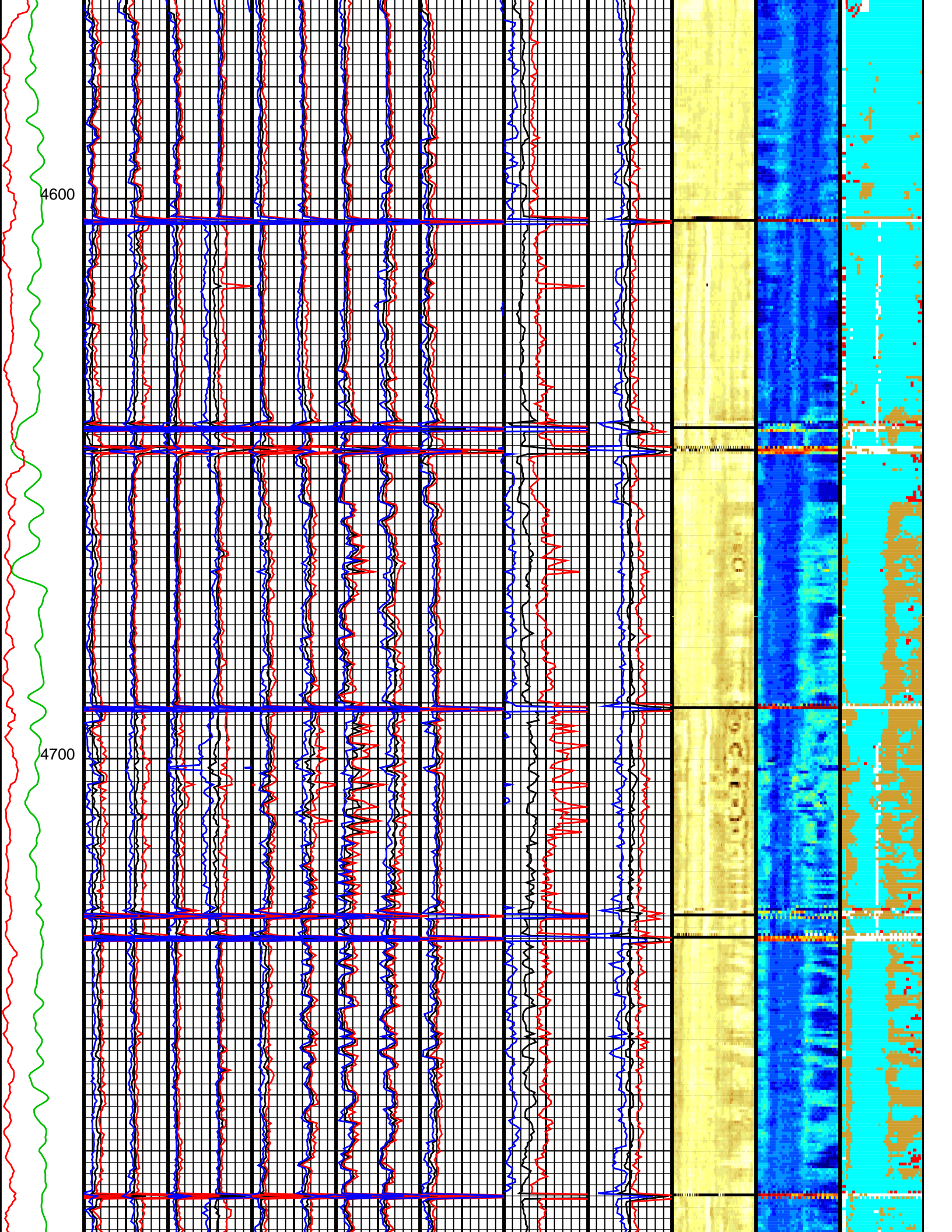
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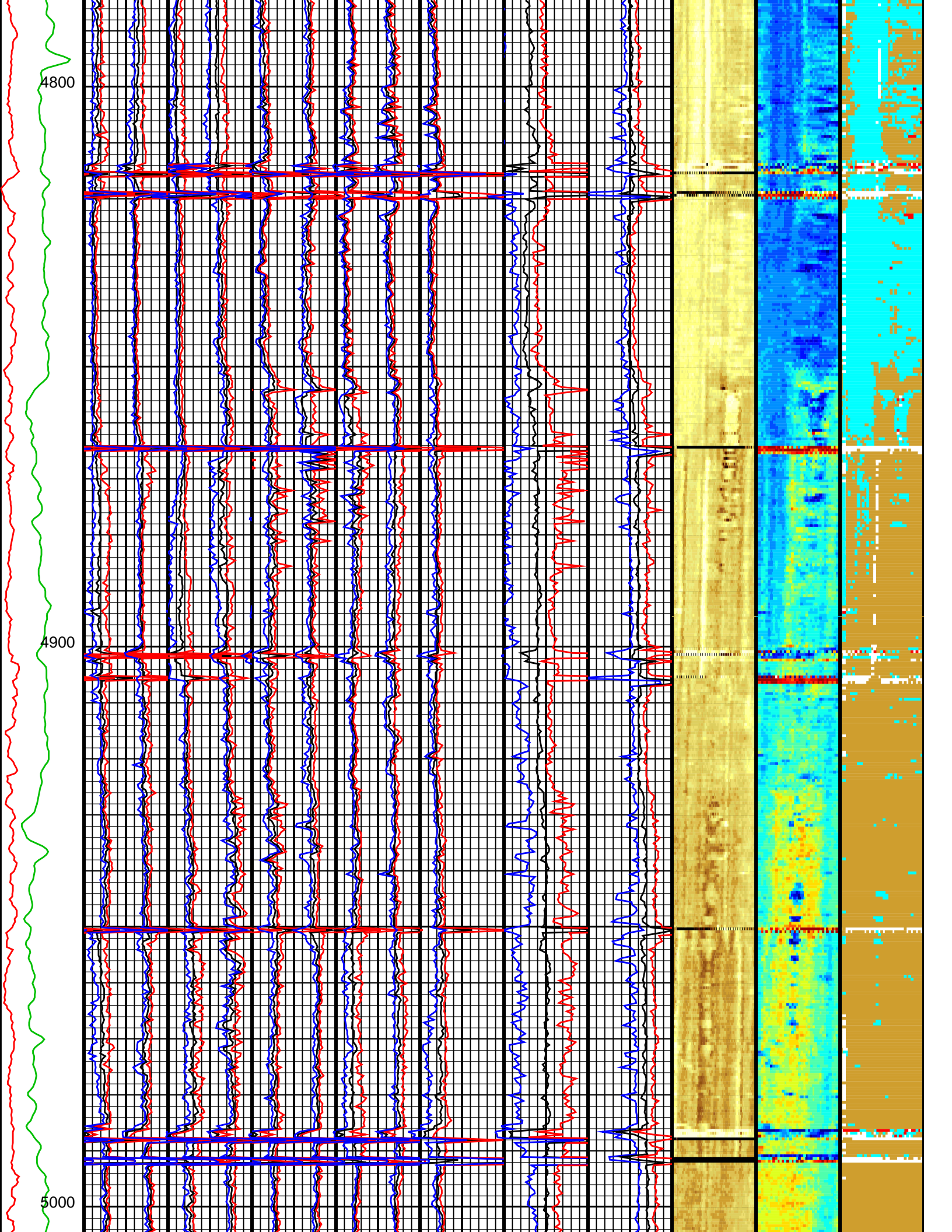


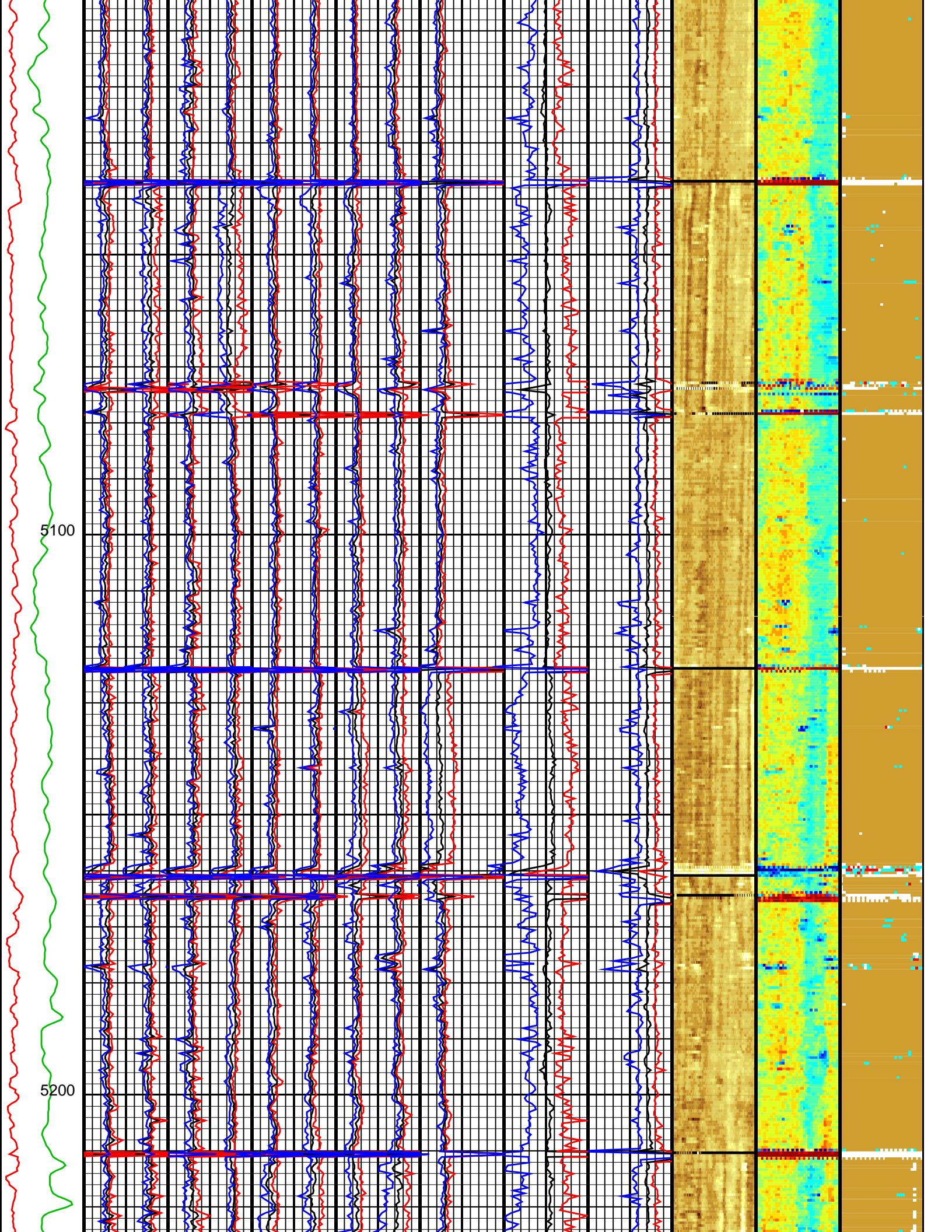


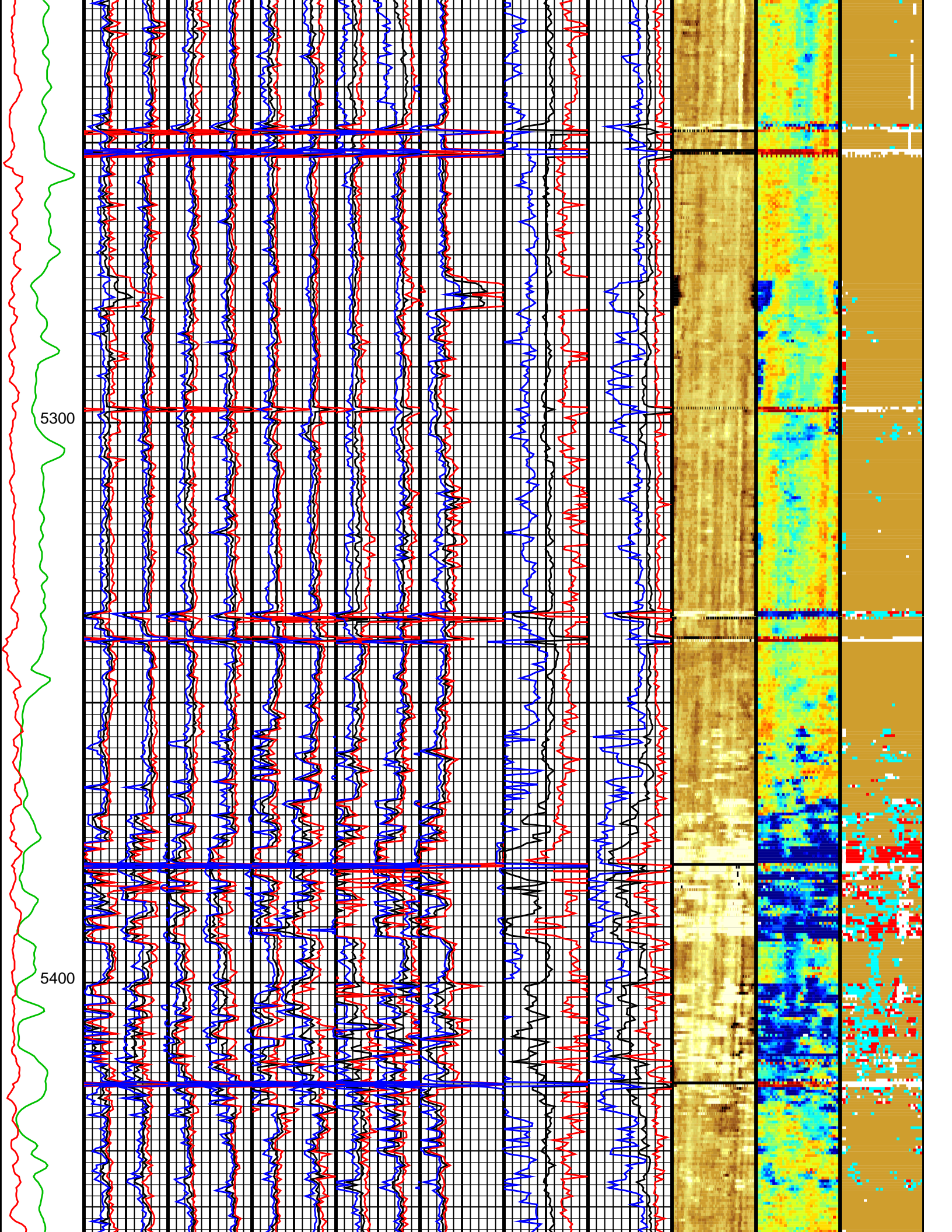


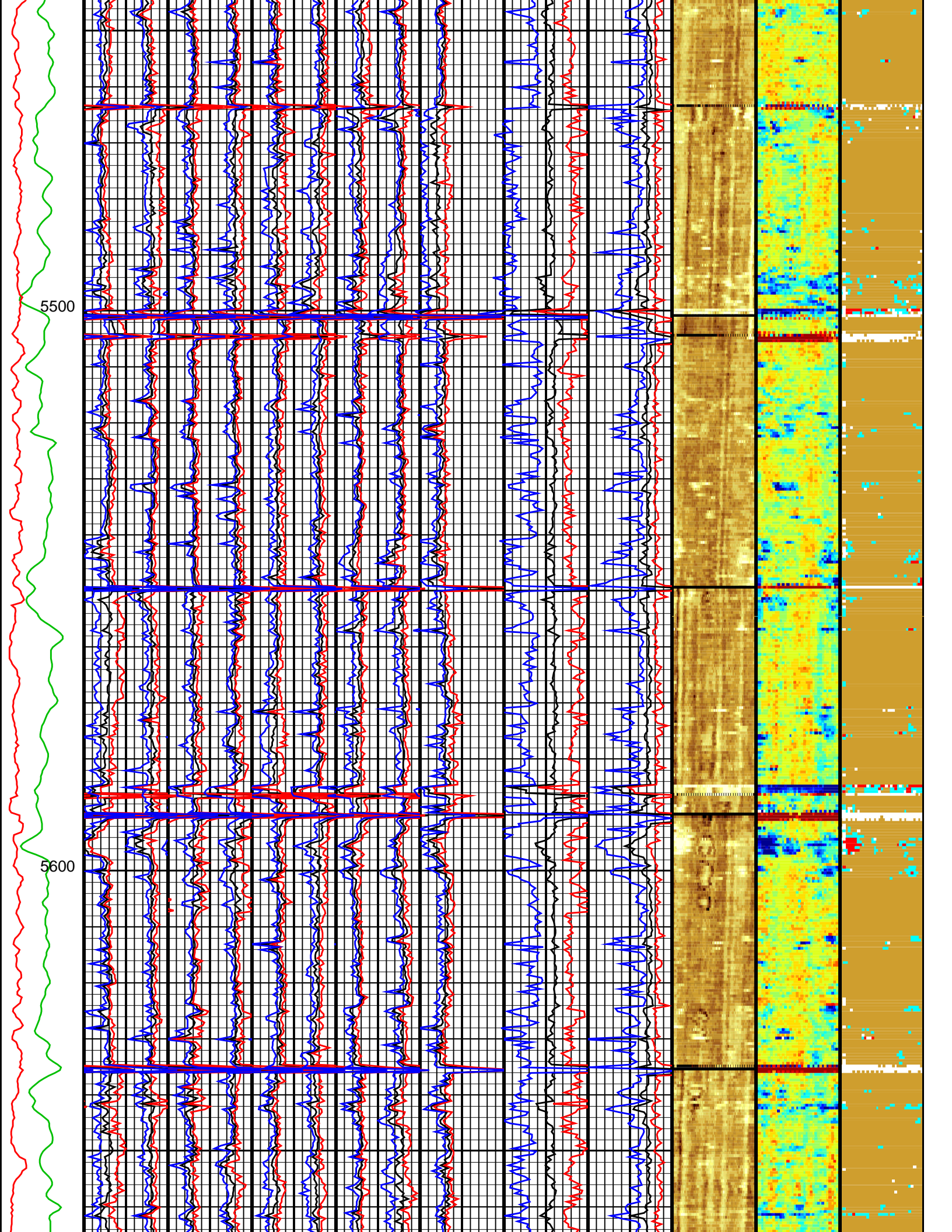


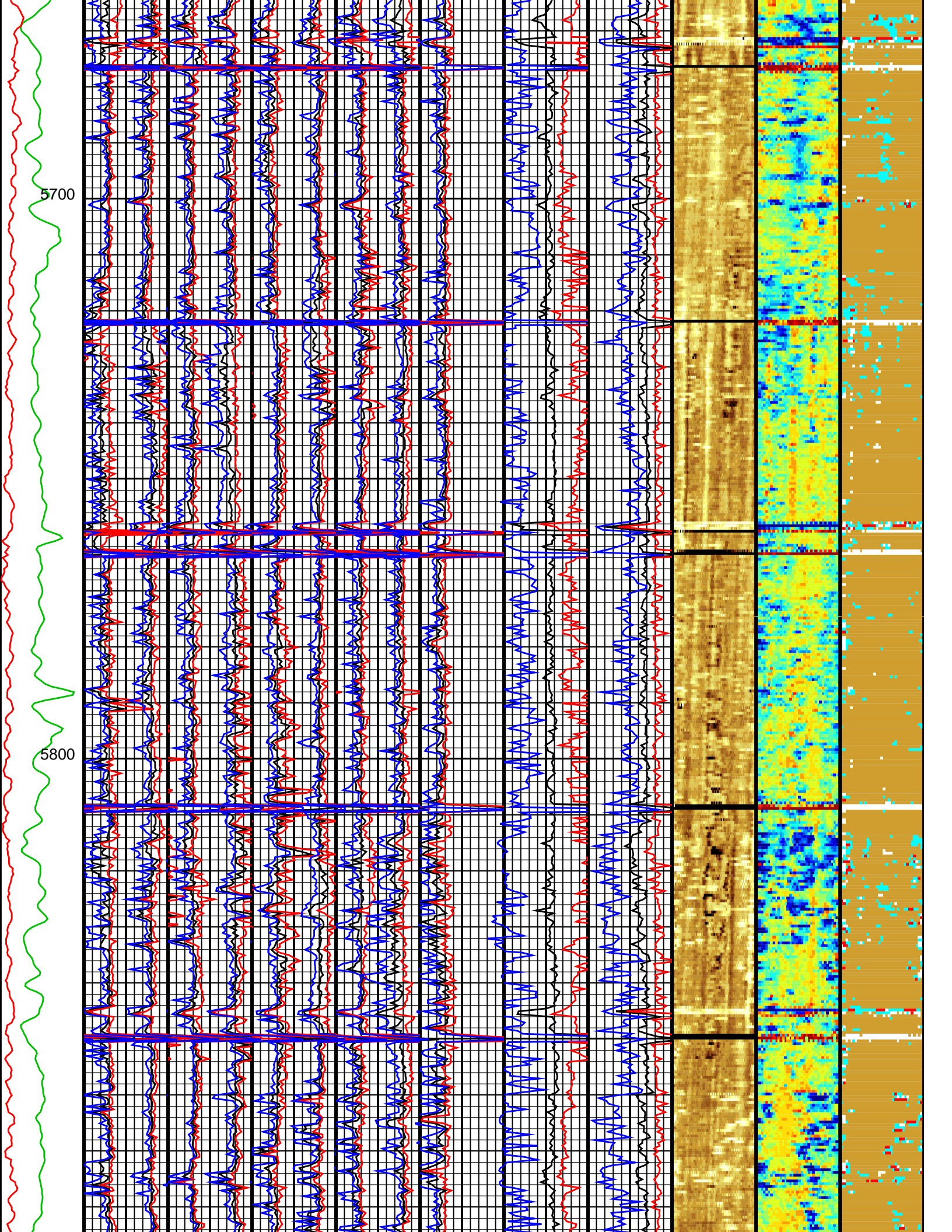


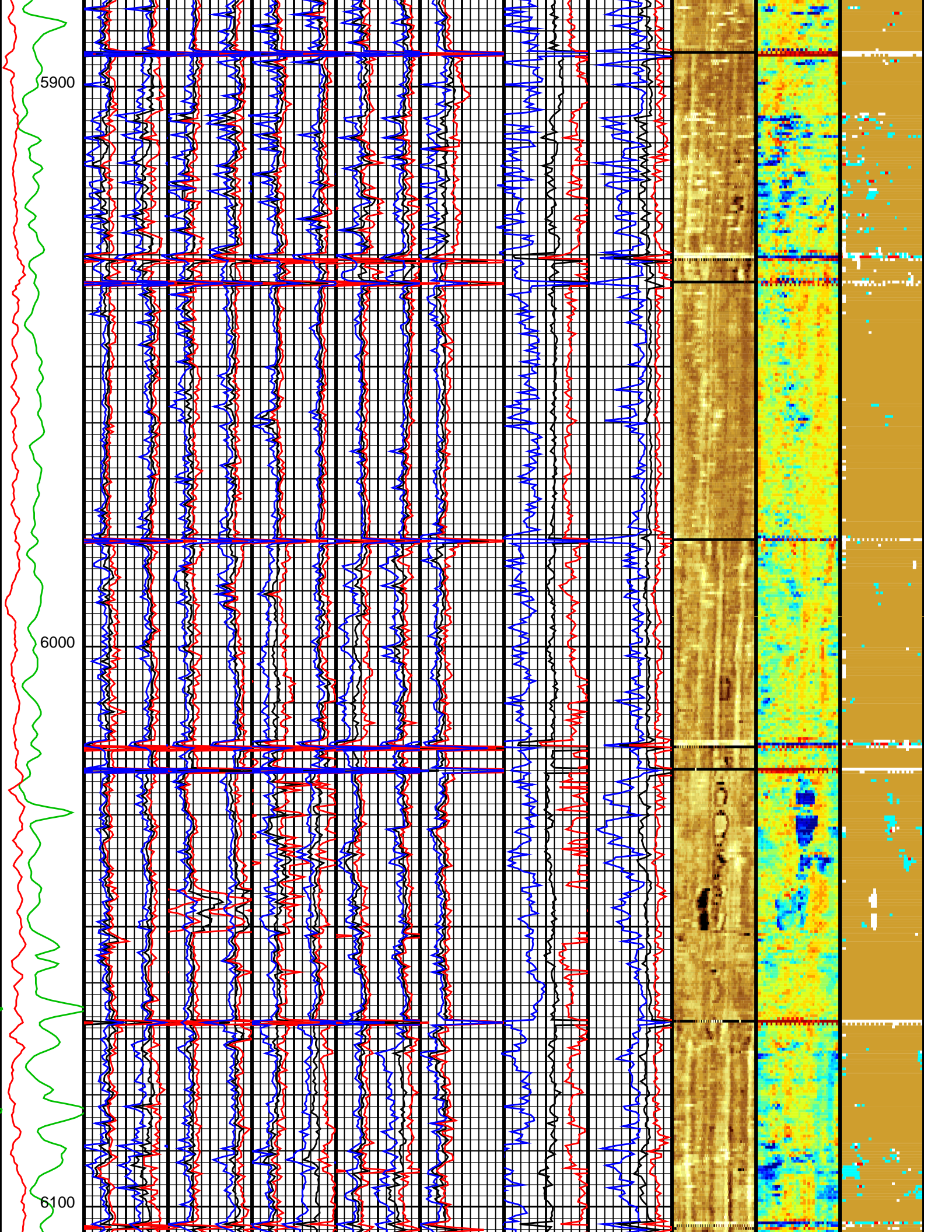


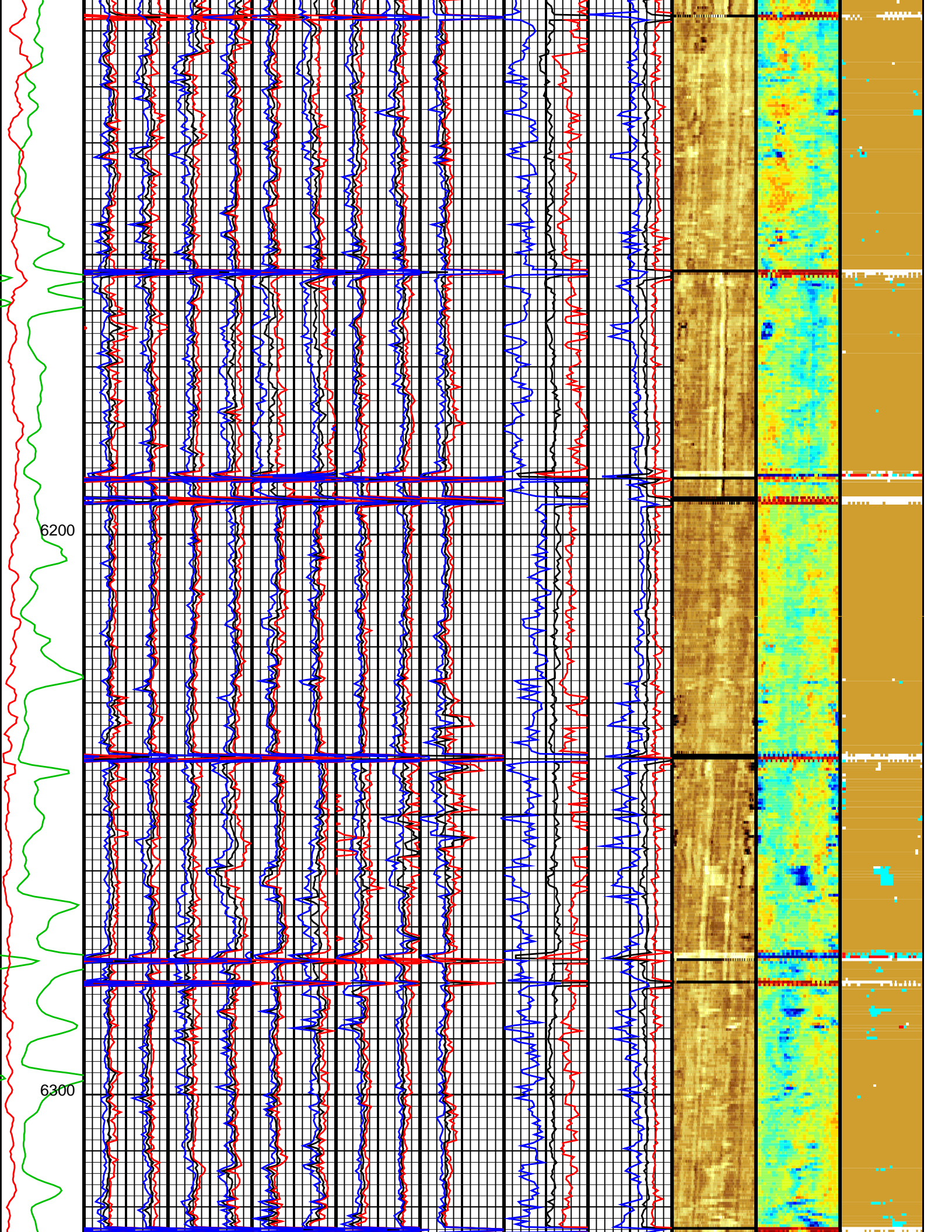


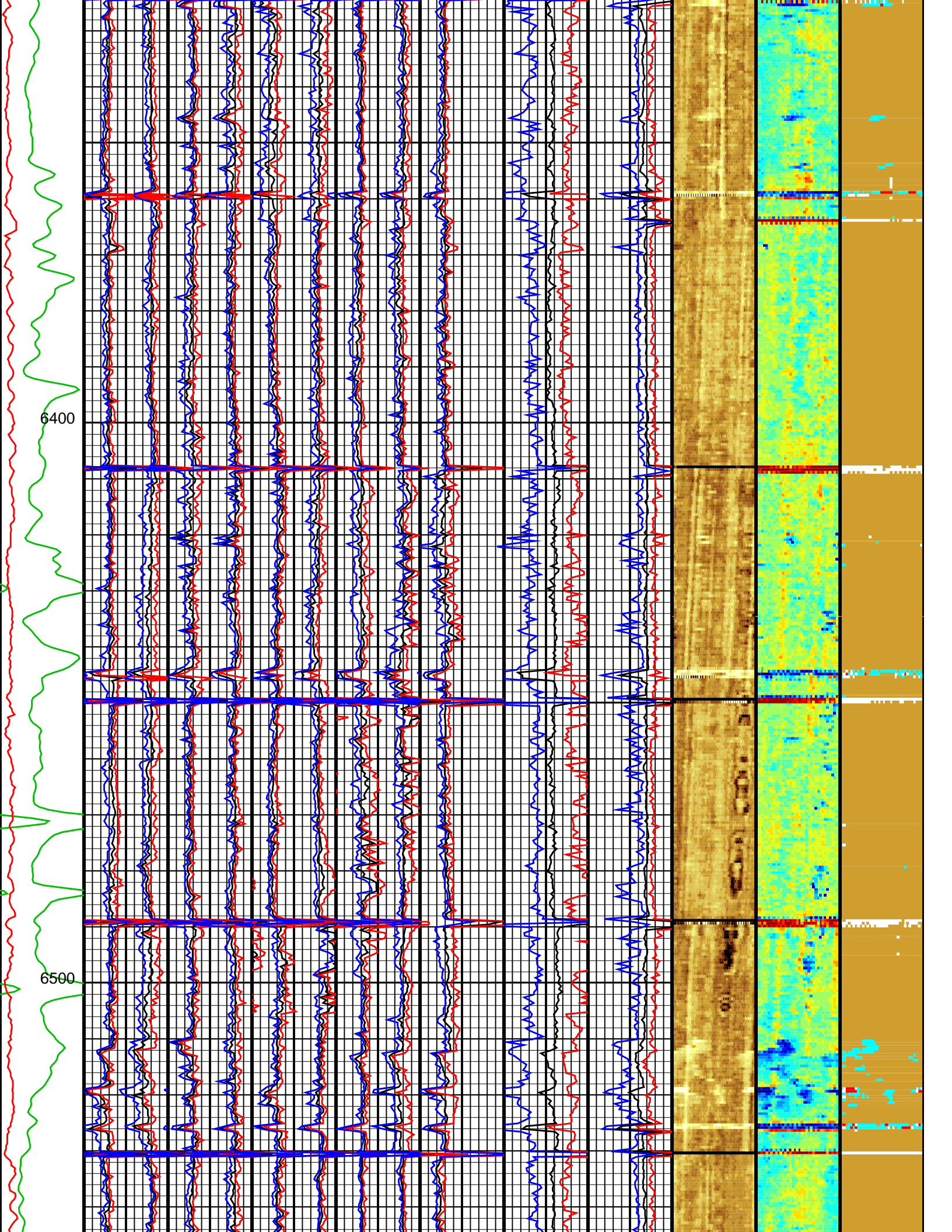


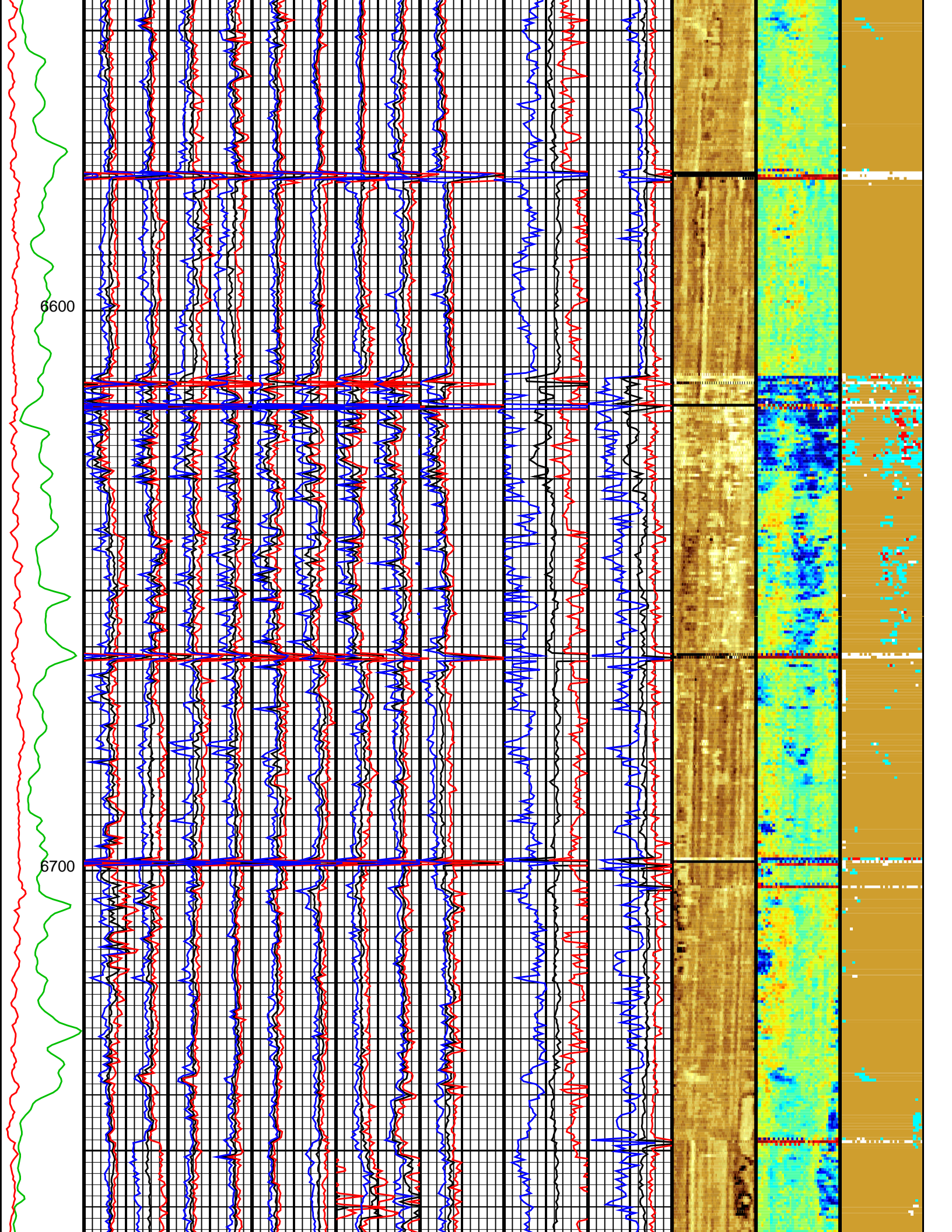


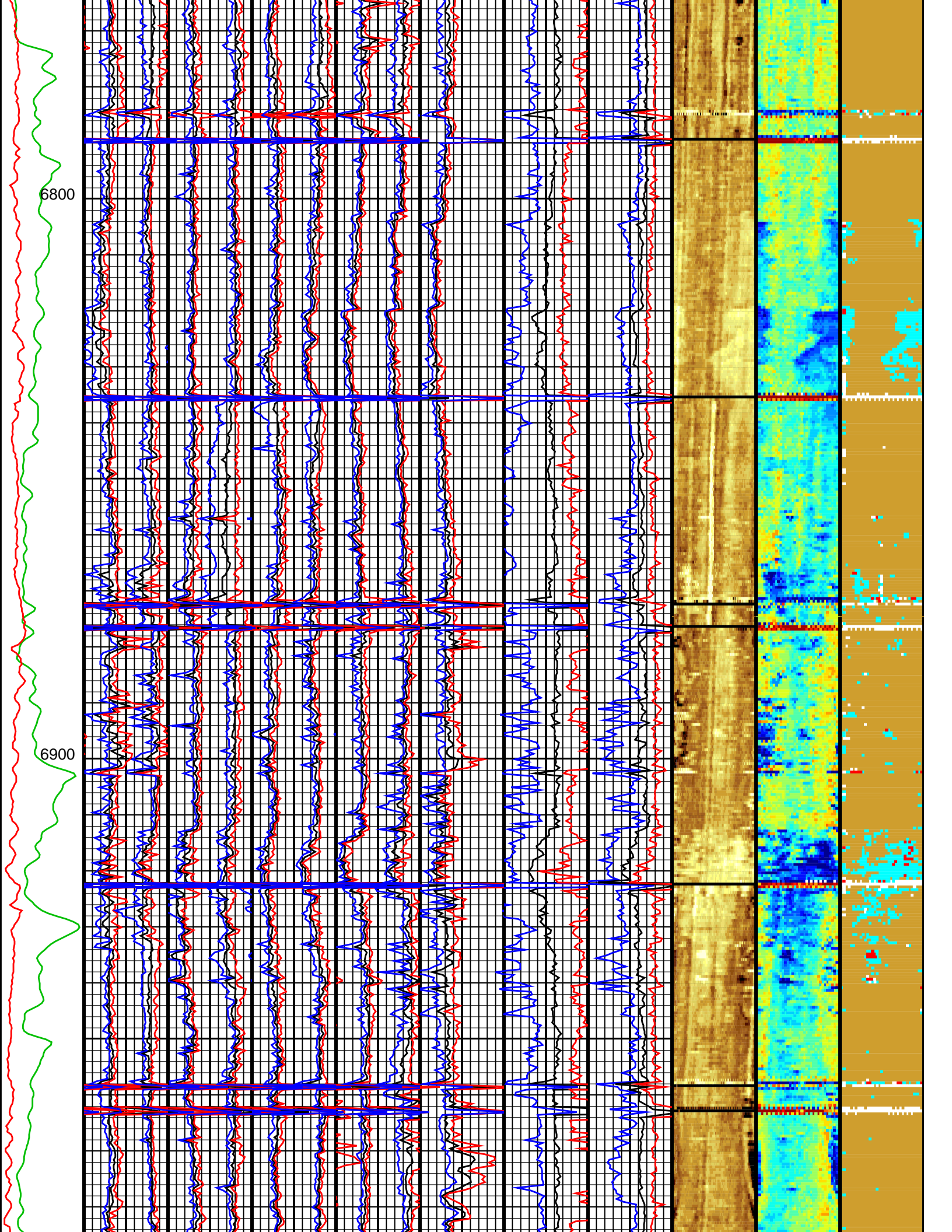


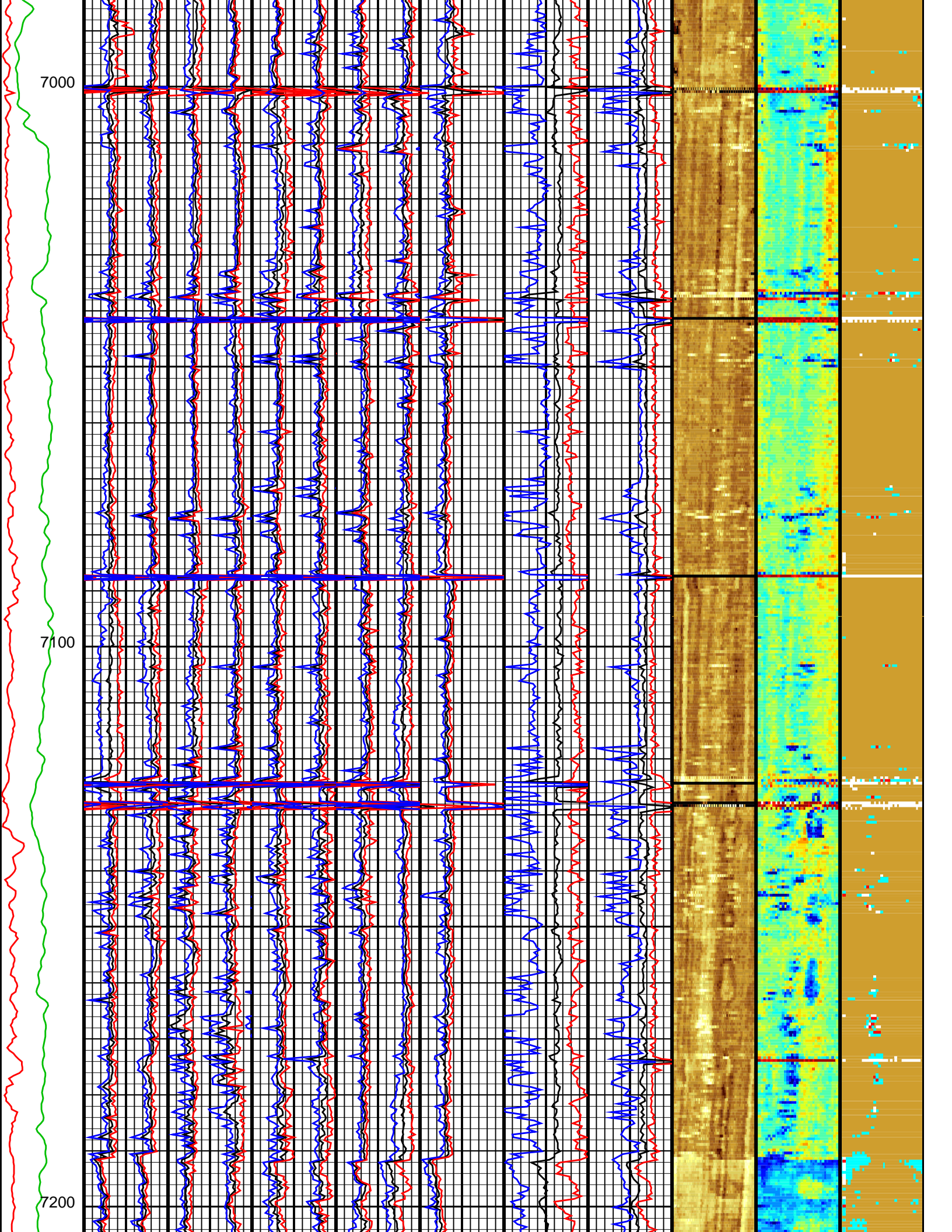


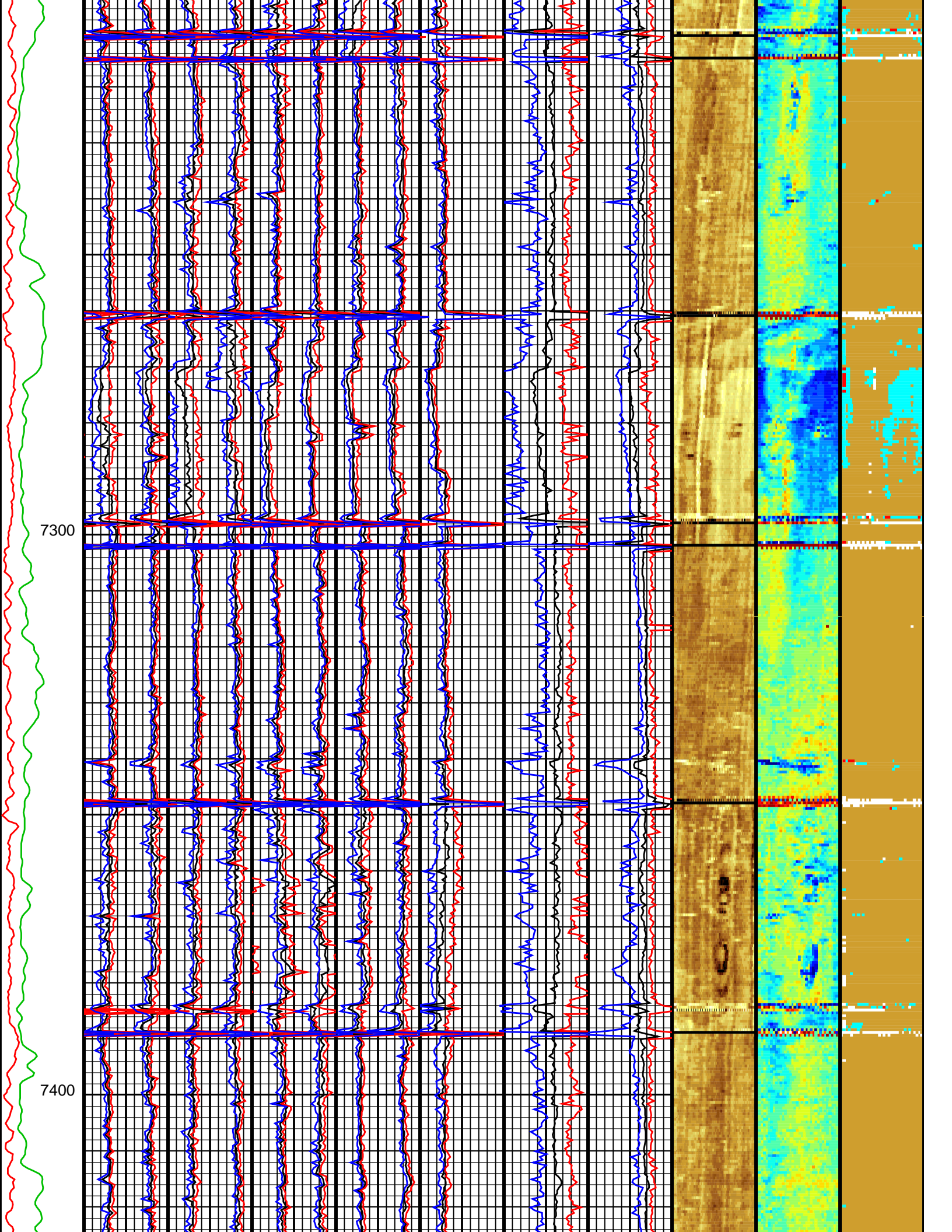


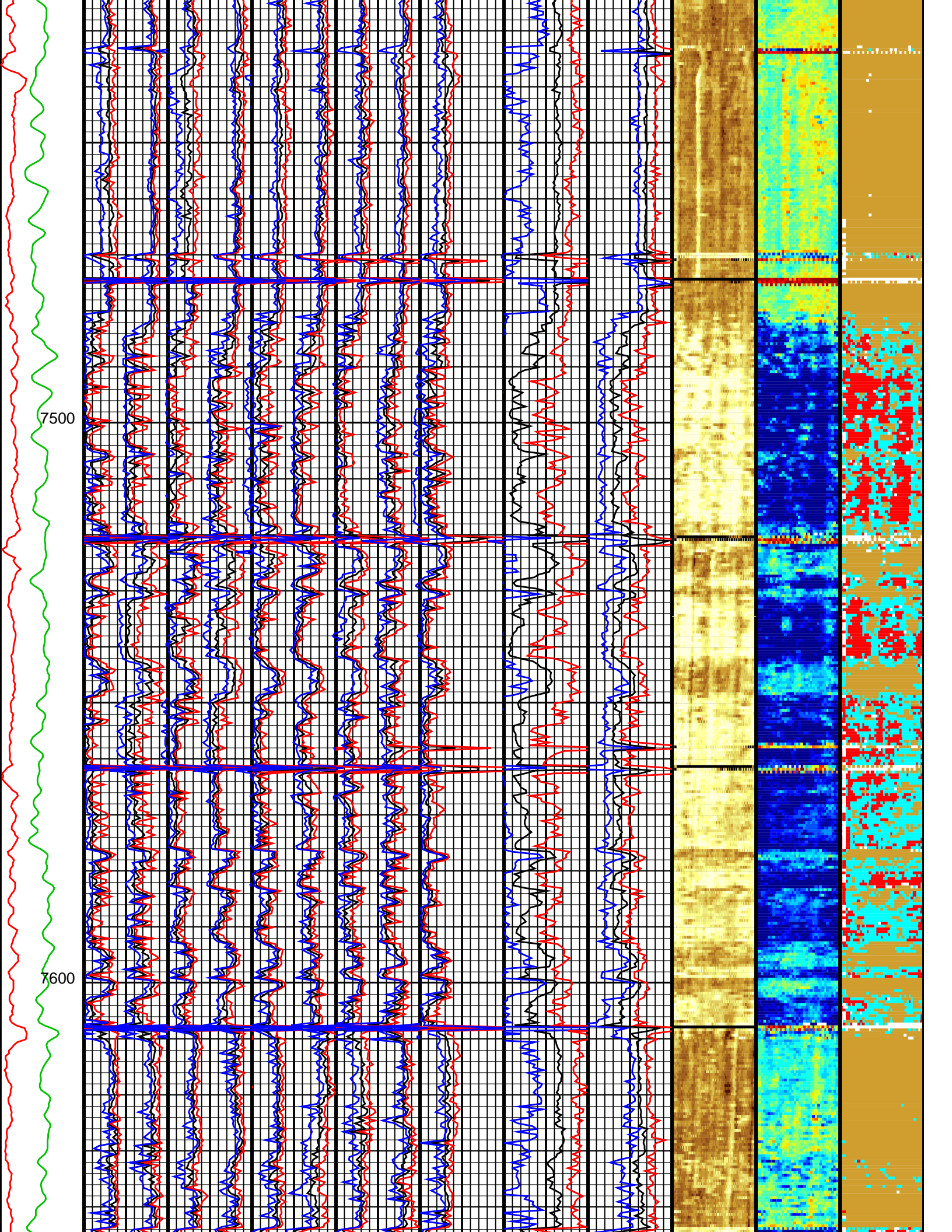


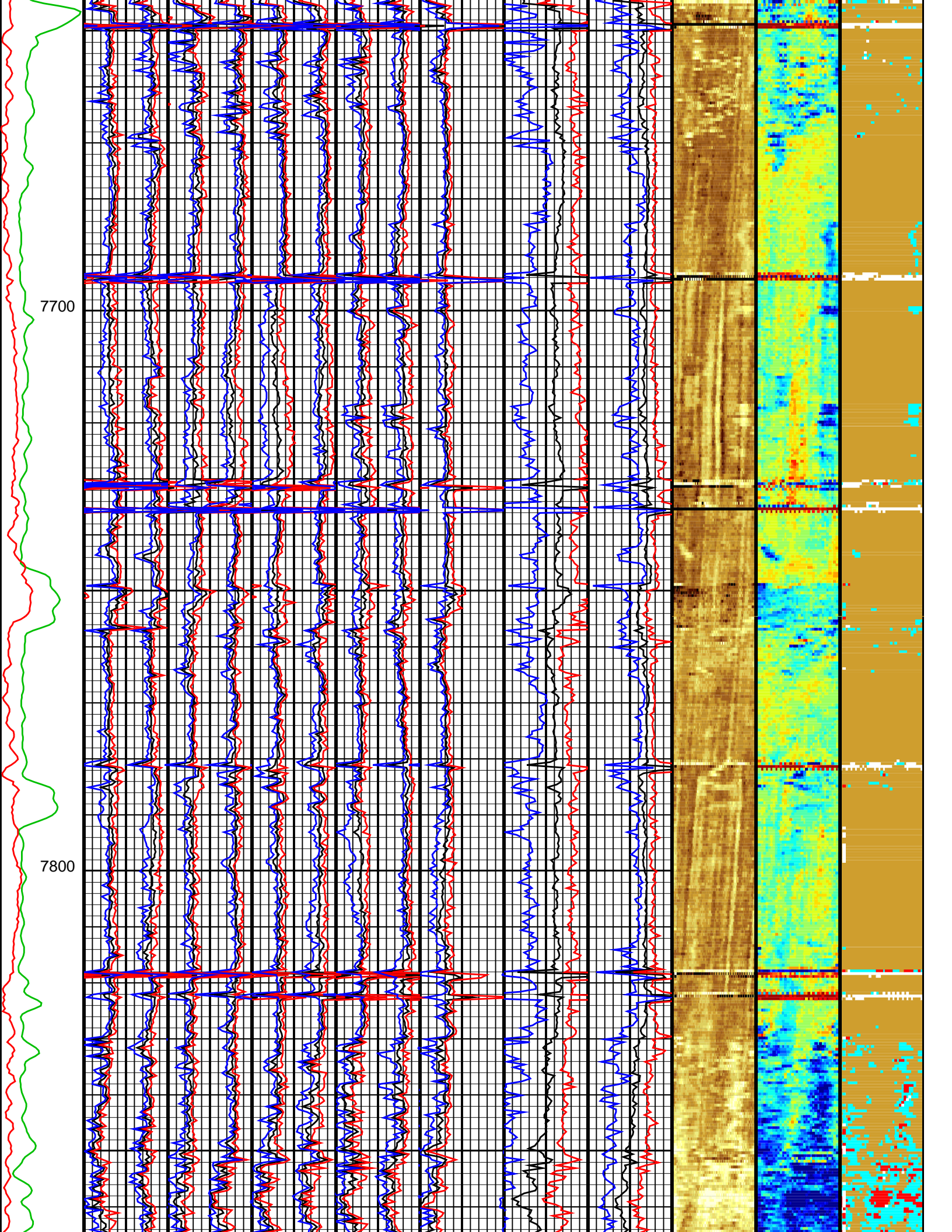


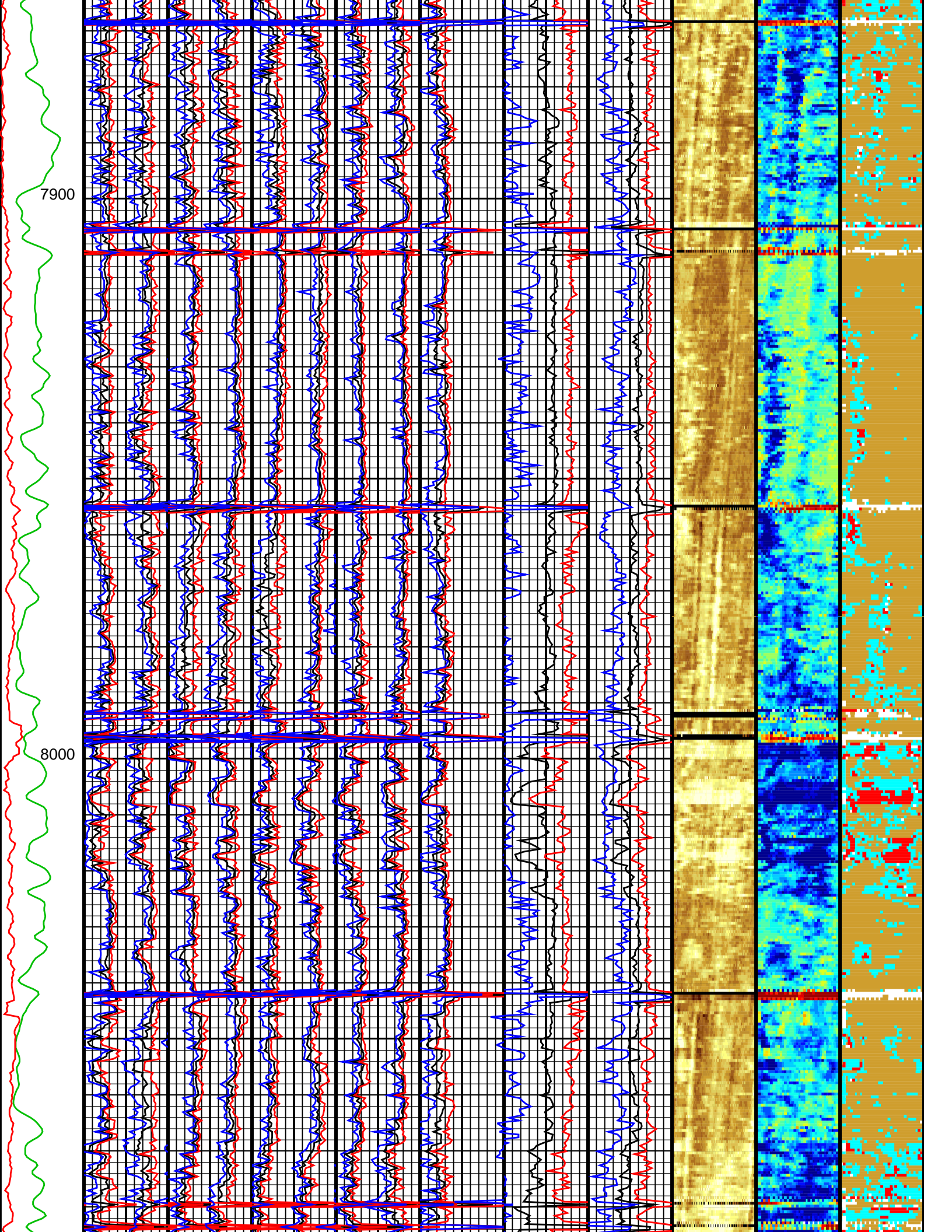


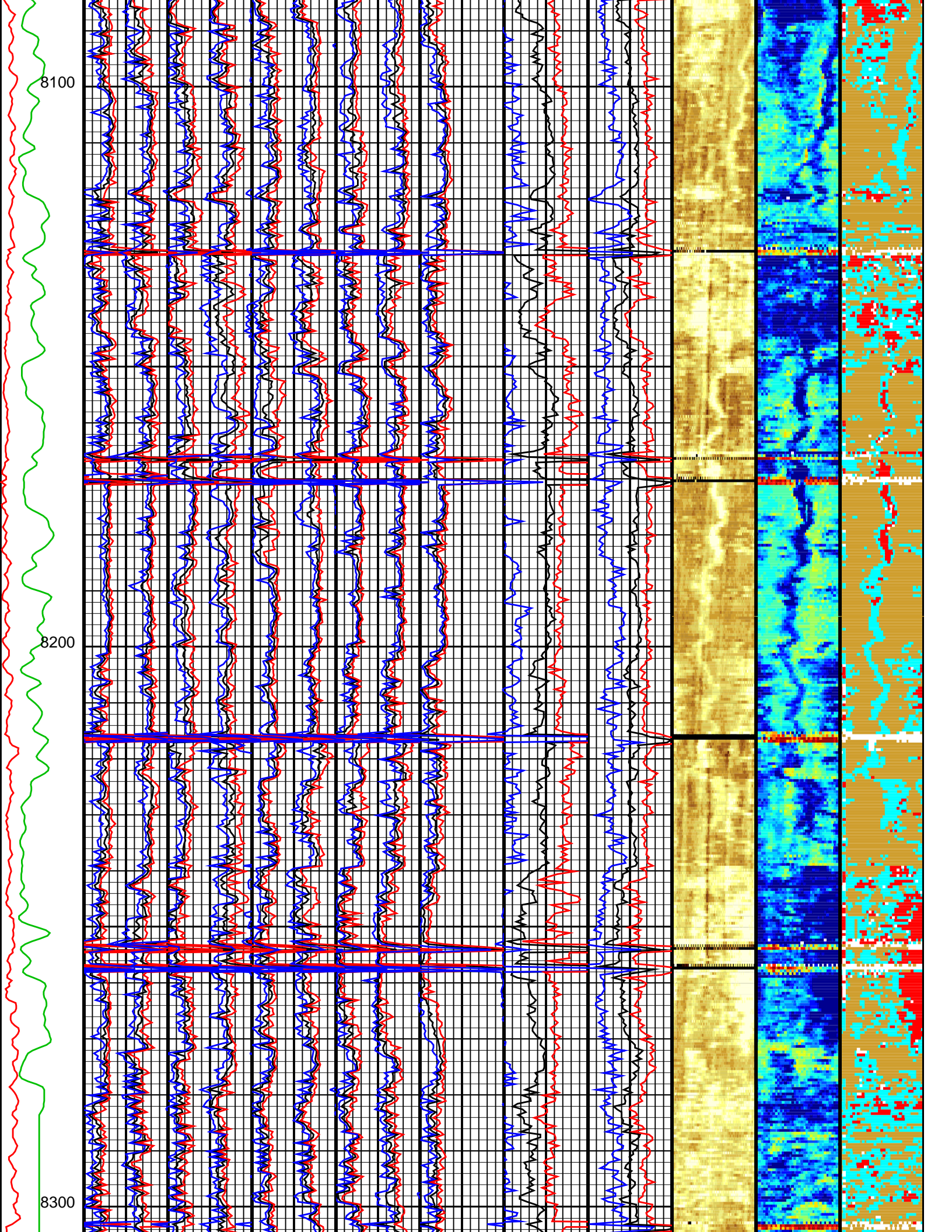


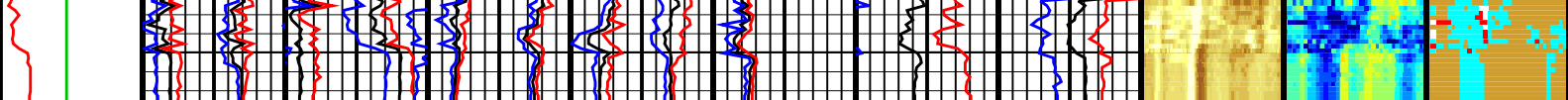












Eccent. (ECCE) 0 (IN) 0.5	Average Acoustic Impedance #1 (AV_ AI1) (MRAY)	Average Acoustic Impedance #3 (AV_ AI3) (MRAY)	Average Acoustic Impedance #5 (AV_ AI5) (MRAY)	Average Acoustic Impedance #7 (AV_ AI7) (MRAY)	Average Acoustic Impedance #9 (AV_ AI9) (MRAY)	Average of AI (AIAV) (MRAY)	Minimum Flexural 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)
-7.5 7.5	-7.5 7.5	-7.5 7.5	-7.5 7.5

Format: M_Goodwin Vertical Scale: 5" per 100' Graphics File Created: 27-Jun-2010 04:33

OP System Version: 17C0-154

USIT-D 17C0-154 HILTH-FTB 17C0-154
 DTC-H 17C0-154

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.

Input DLIS Files

DEFAULT SPLICE_USI_TLD_MCFL_009 FN:1 PRODUCER 27-Jun-2010 04:26 8315.0 FT 203.5 FT

Output DLIS Files

DEFAULT USI_TLD_MCFL_CNL_012PUP FN:10 PRODUCER 27-Jun-2010 04:33



VDL WIDE

MAXIS Field Log

Company: EXXONMOBIL PRODUCTION CO.

Well: PCU 197-34A9

Input DLIS Files

DEFAULT SPLICE_USI_TLD_MCFL_009 FN:1 PRODUCER 27-Jun-2010 04:26 8315.0 FT 203.5 FT

Output DLIS Files

DEFAULT USI_TLD_MCFL_CNL_012PUP FN:10 PRODUCER 27-Jun-2010 04:33

OP System Version: 17C0-154

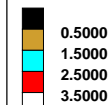
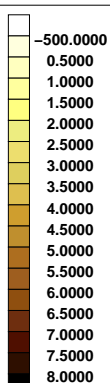
USIT-D 17C0-154 HILTH-FTB 17C0-154
DTC-H 17C0-154

Changed Parameter Summary

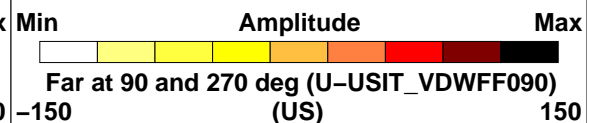
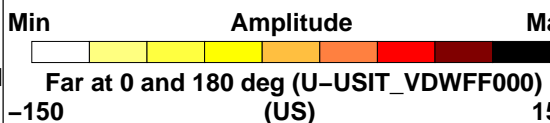
DLIS Name	New Value	Previous Value	Depth & Time
ZMUD	1.7 MRAY	1.75 MRAY	6501.5 04:36:23
	1.65 MRAY	1.7 MRAY	5501.5 04:38:25

Gamma Ray (GR) (GAPI)
0 150

CCL (CCLU) (-----)
-20 20

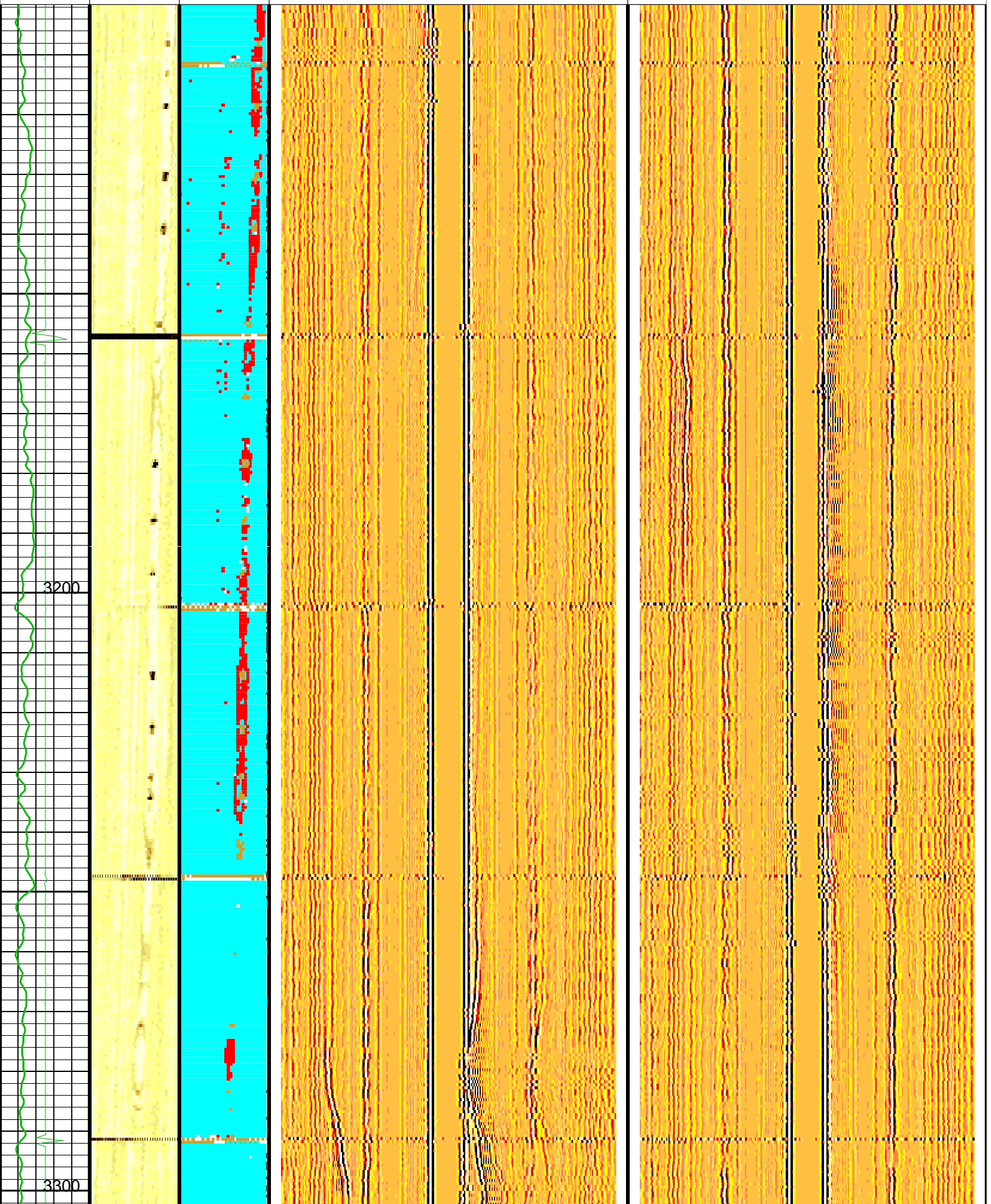


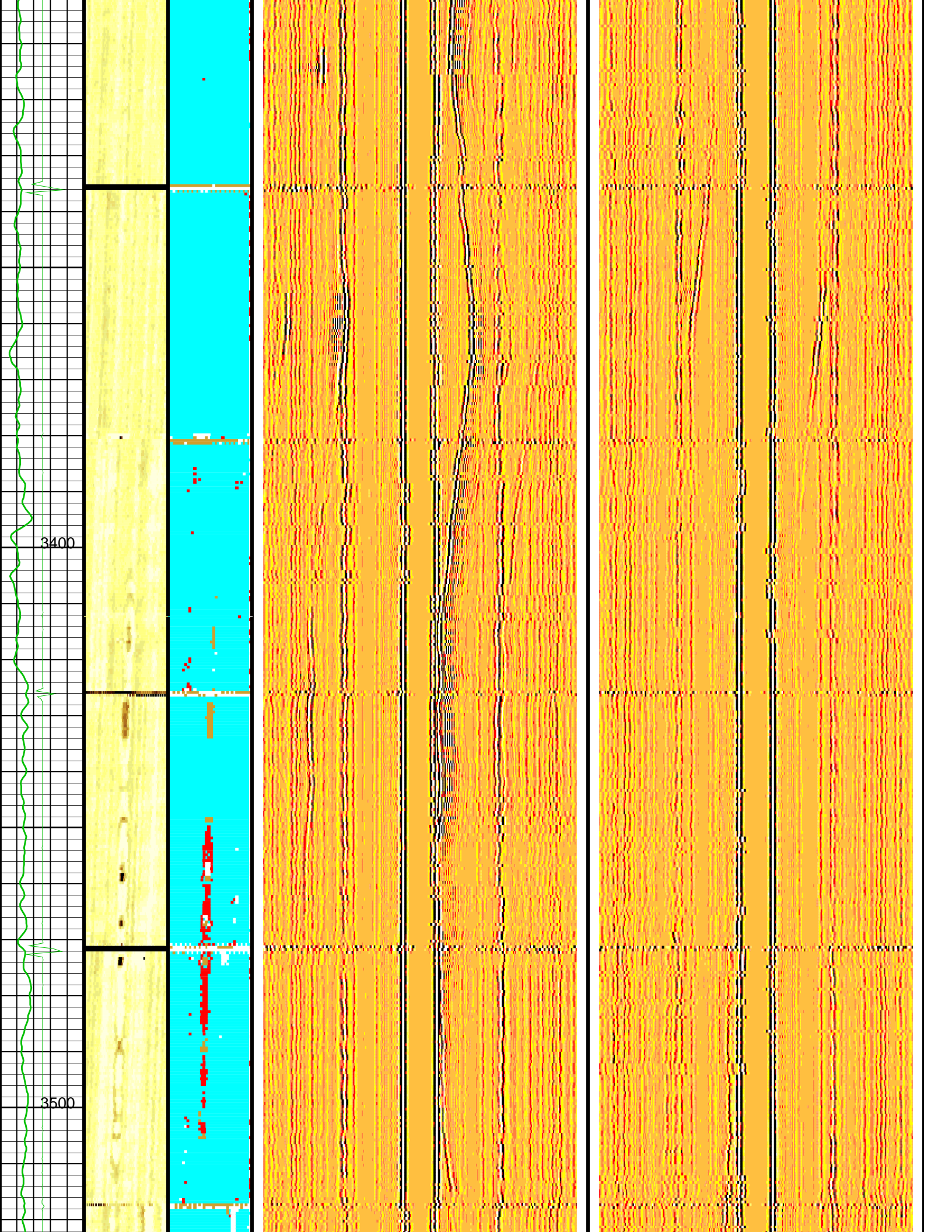
Solid Liquid Gas Map (U-USIT_USLP)

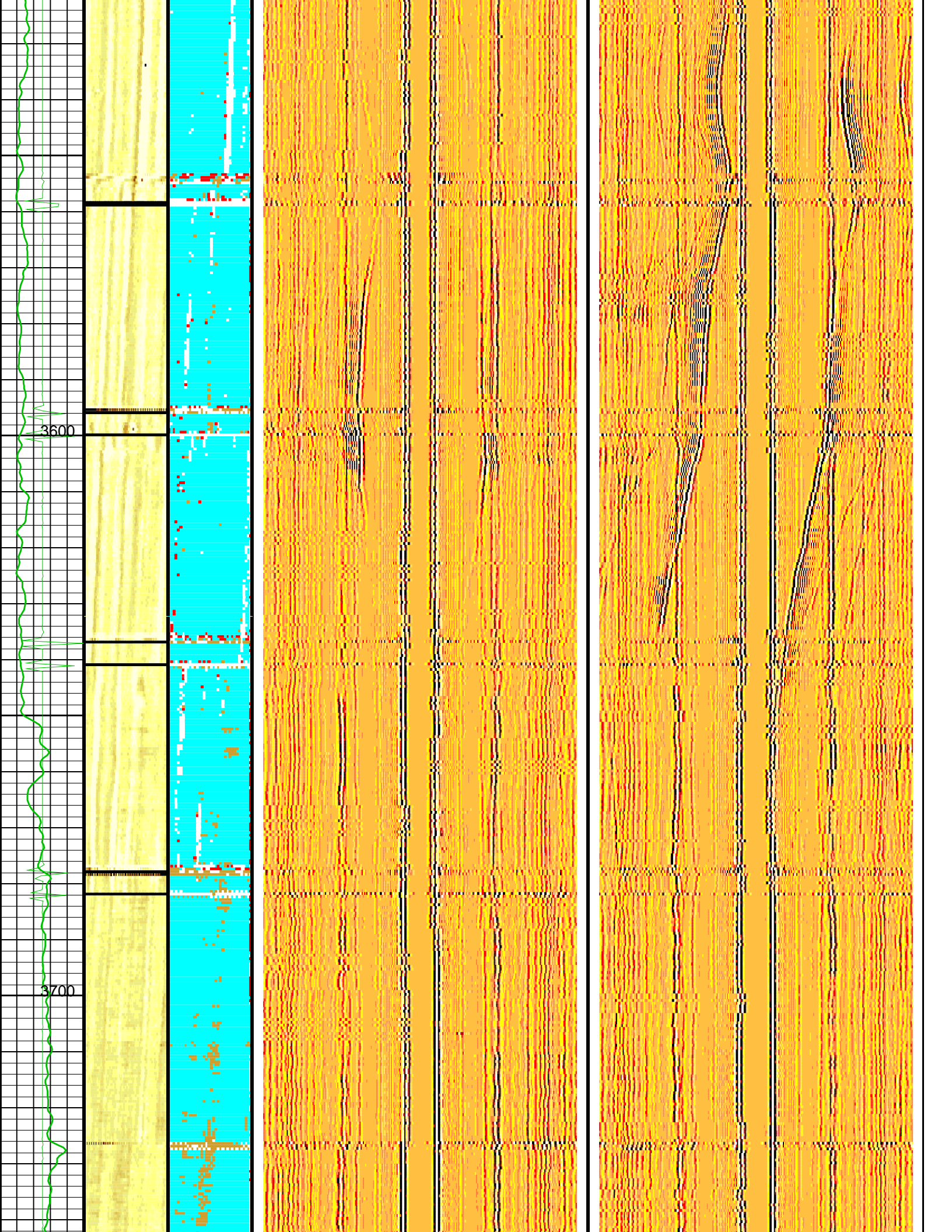


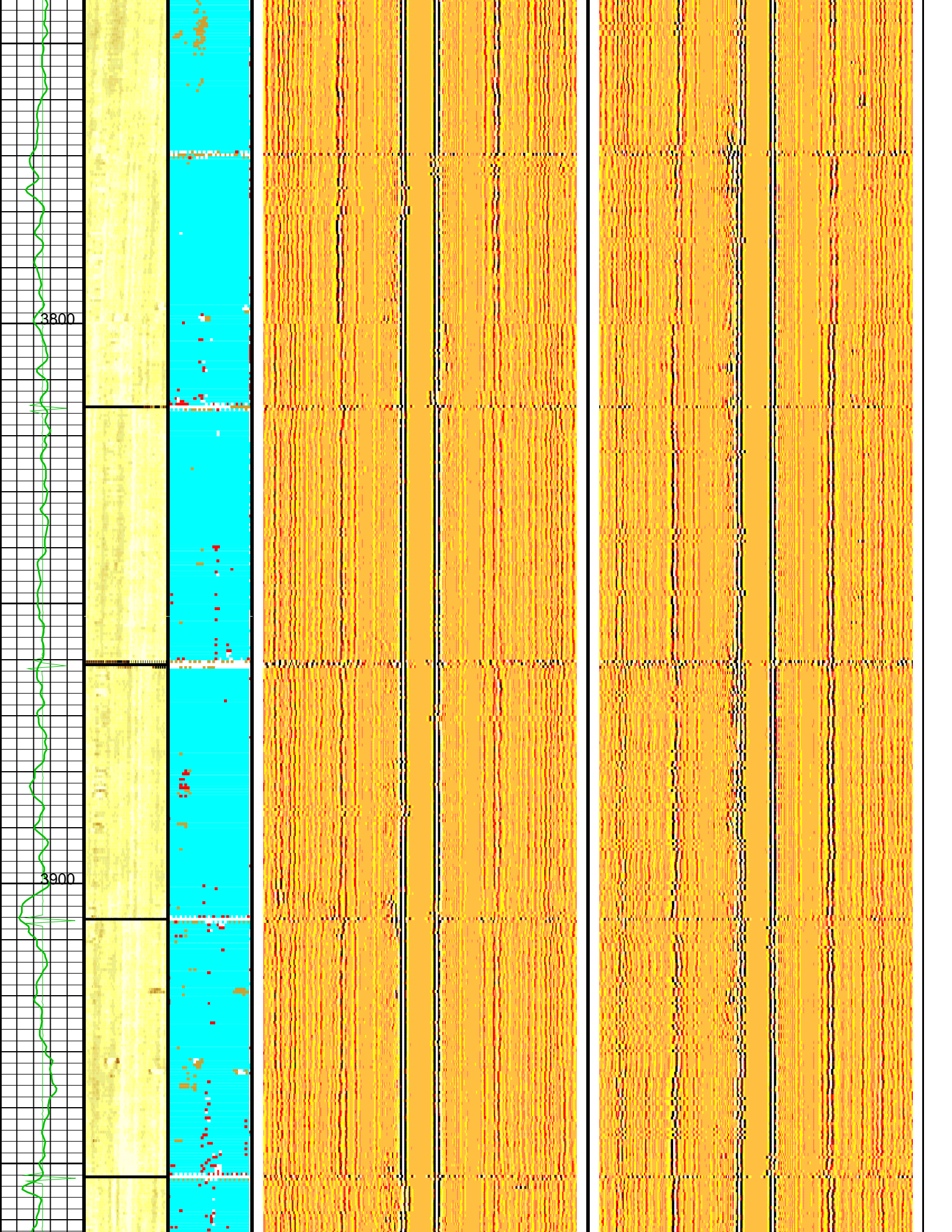
Raw
Acoustic
Imped.
(AIBK)
(MRAY)

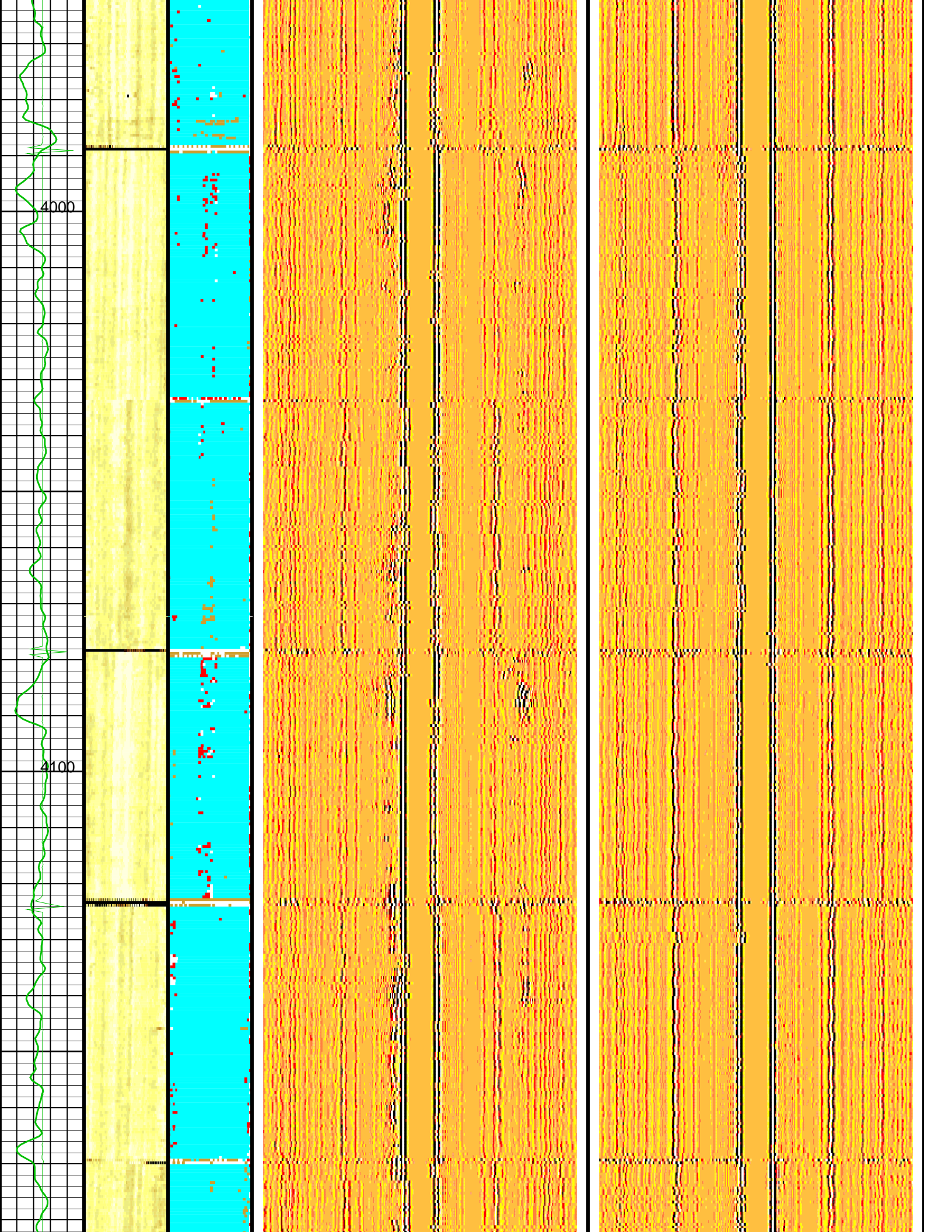
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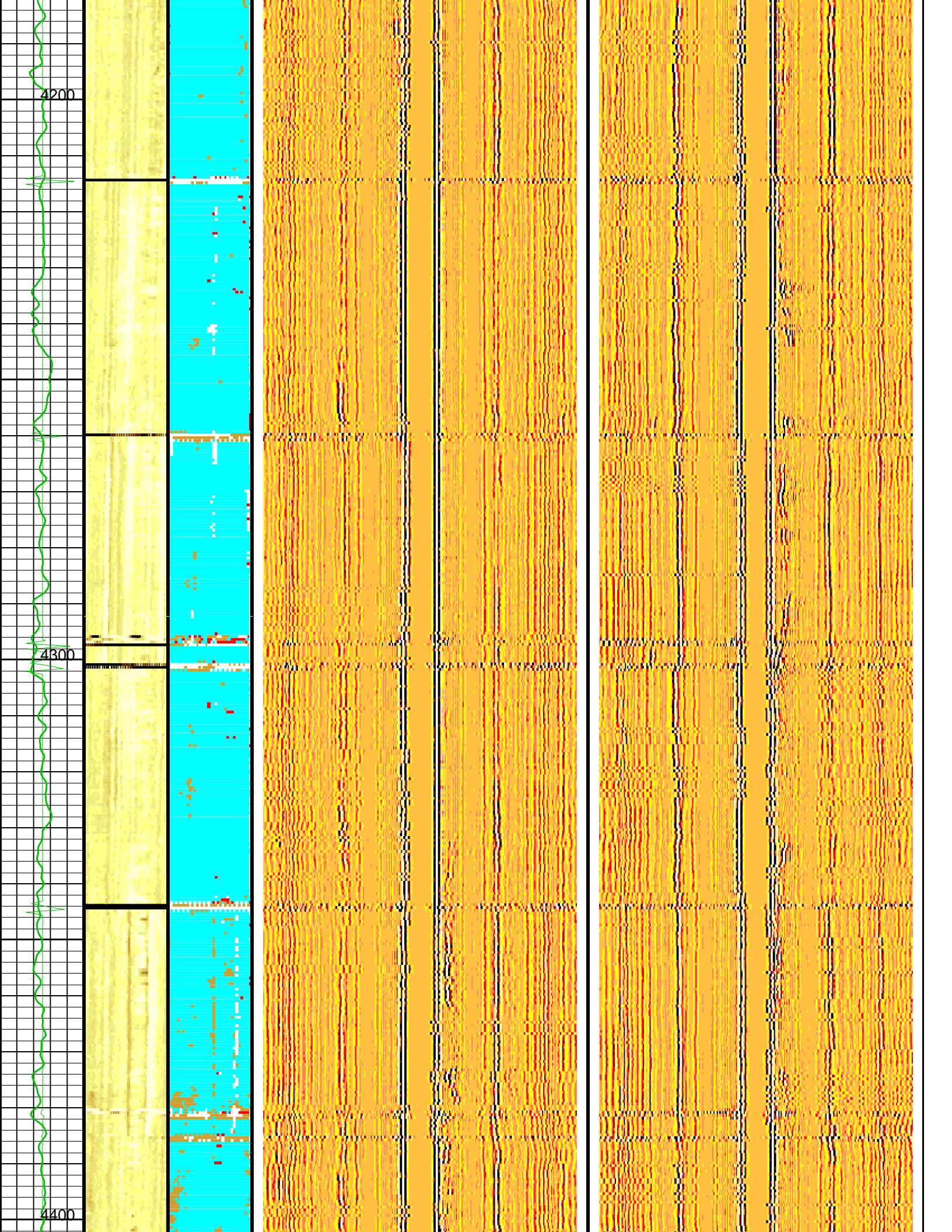


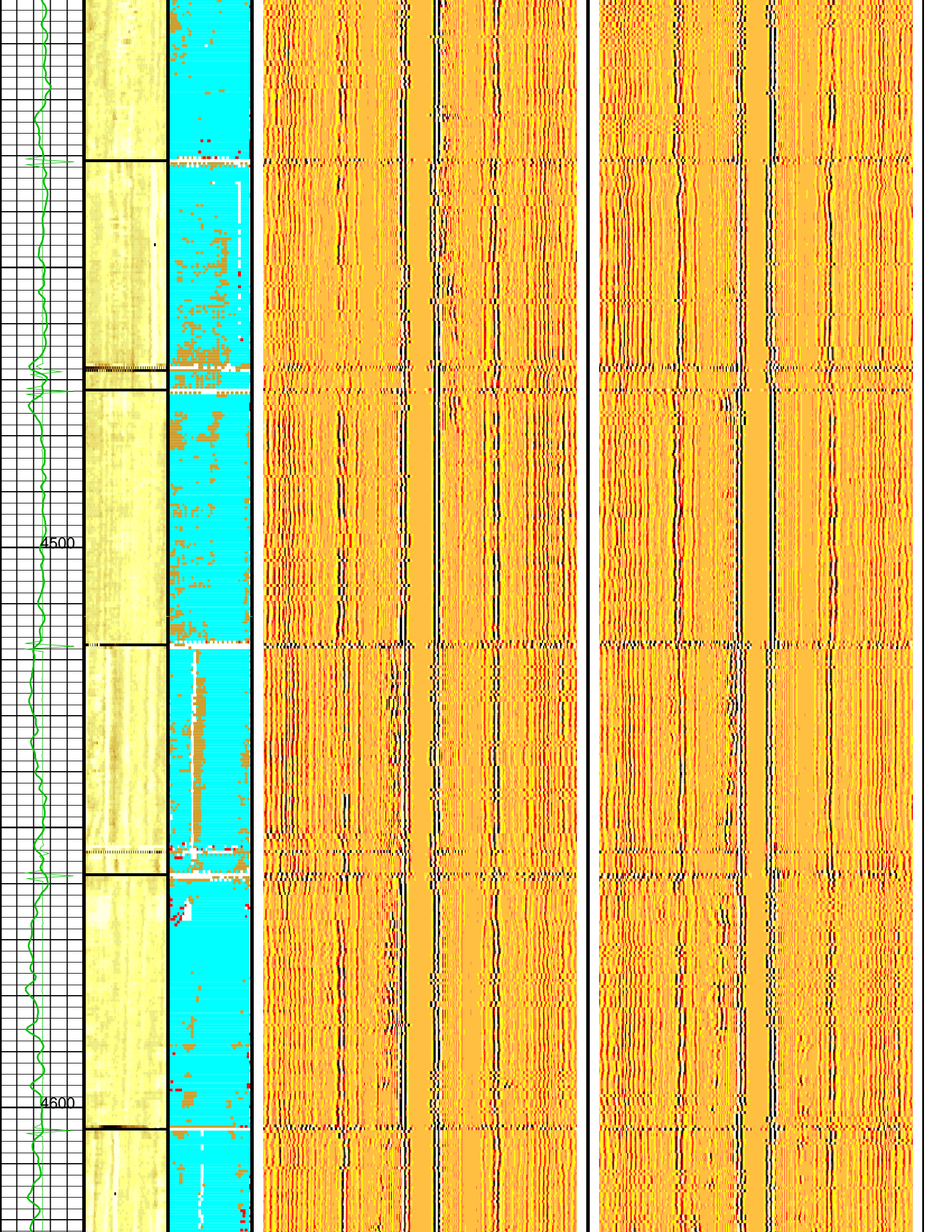


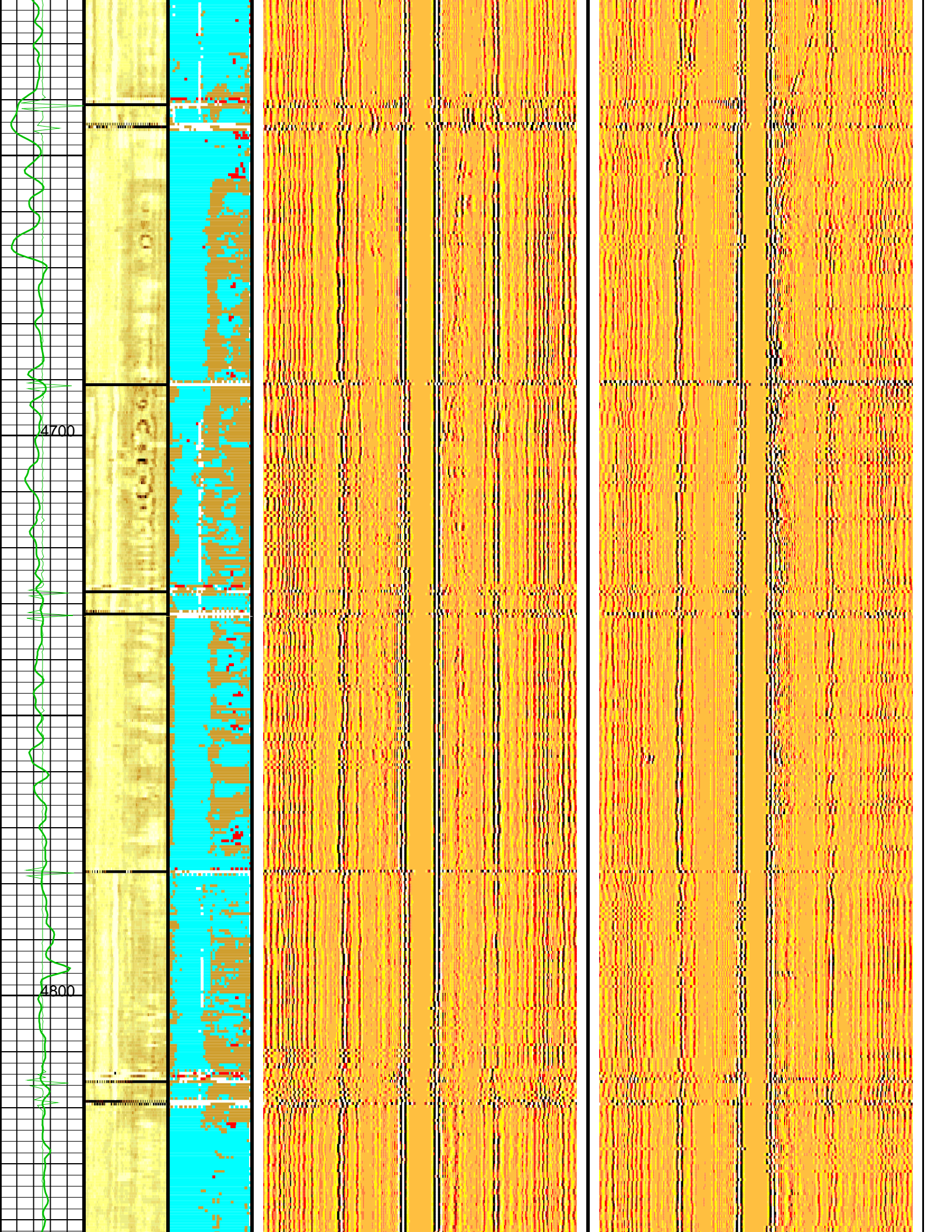


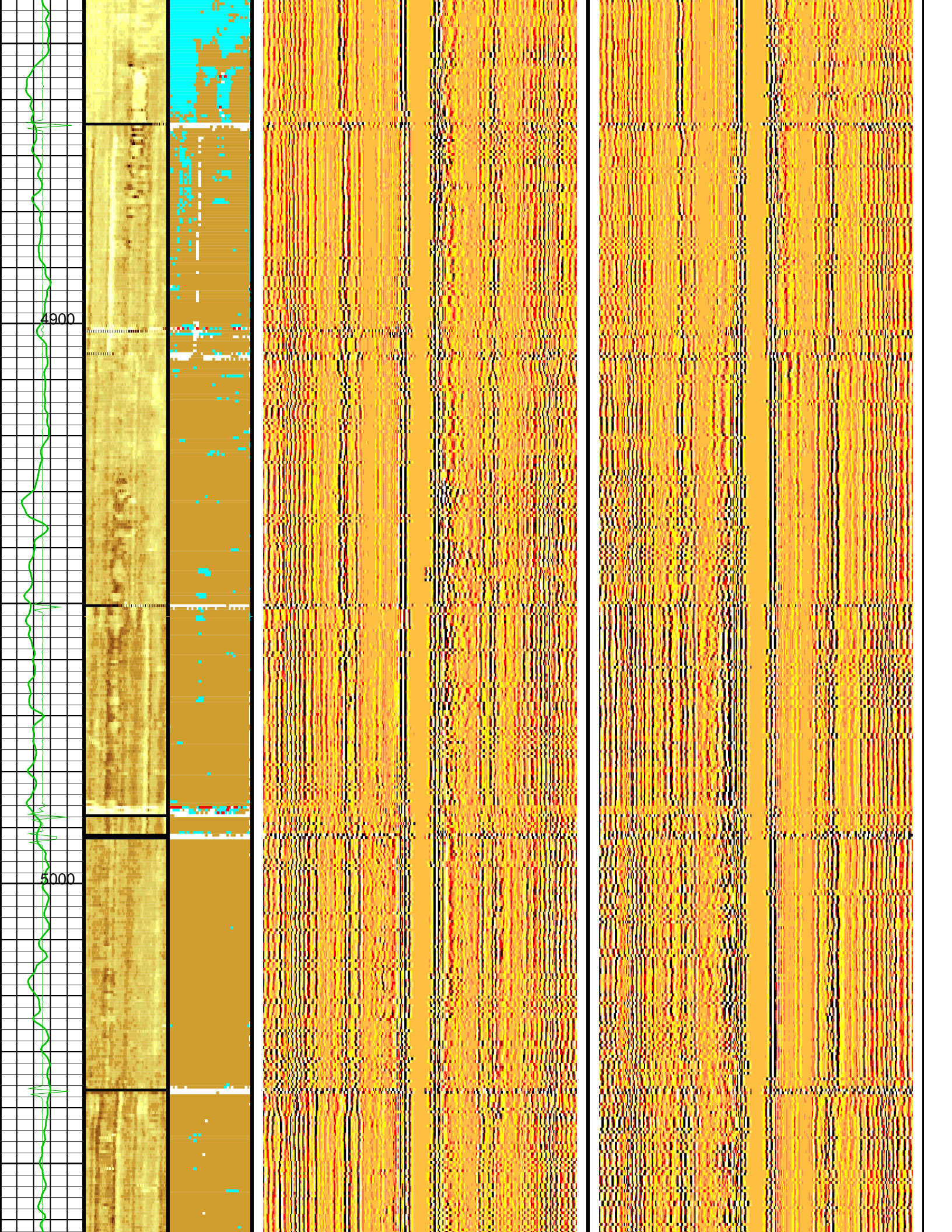


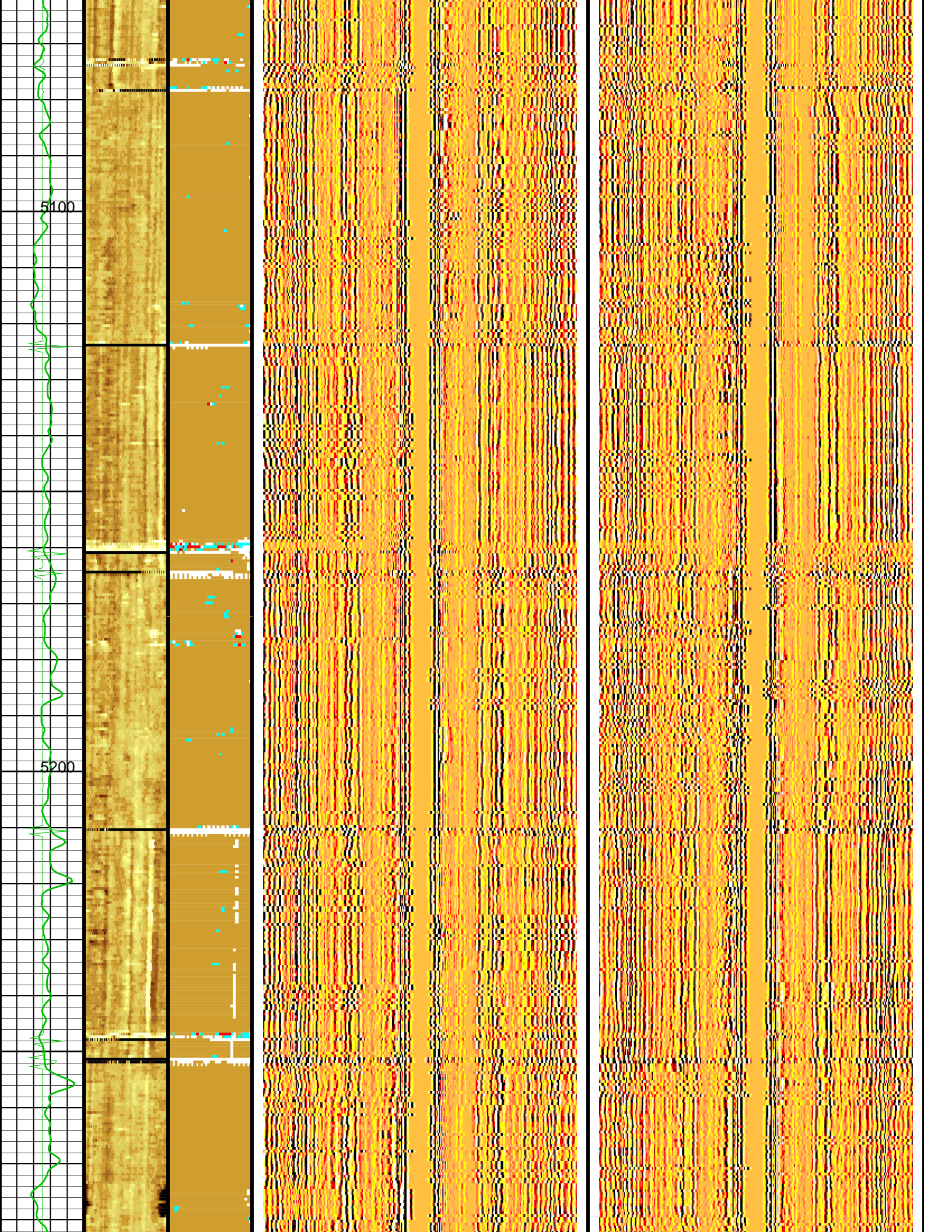


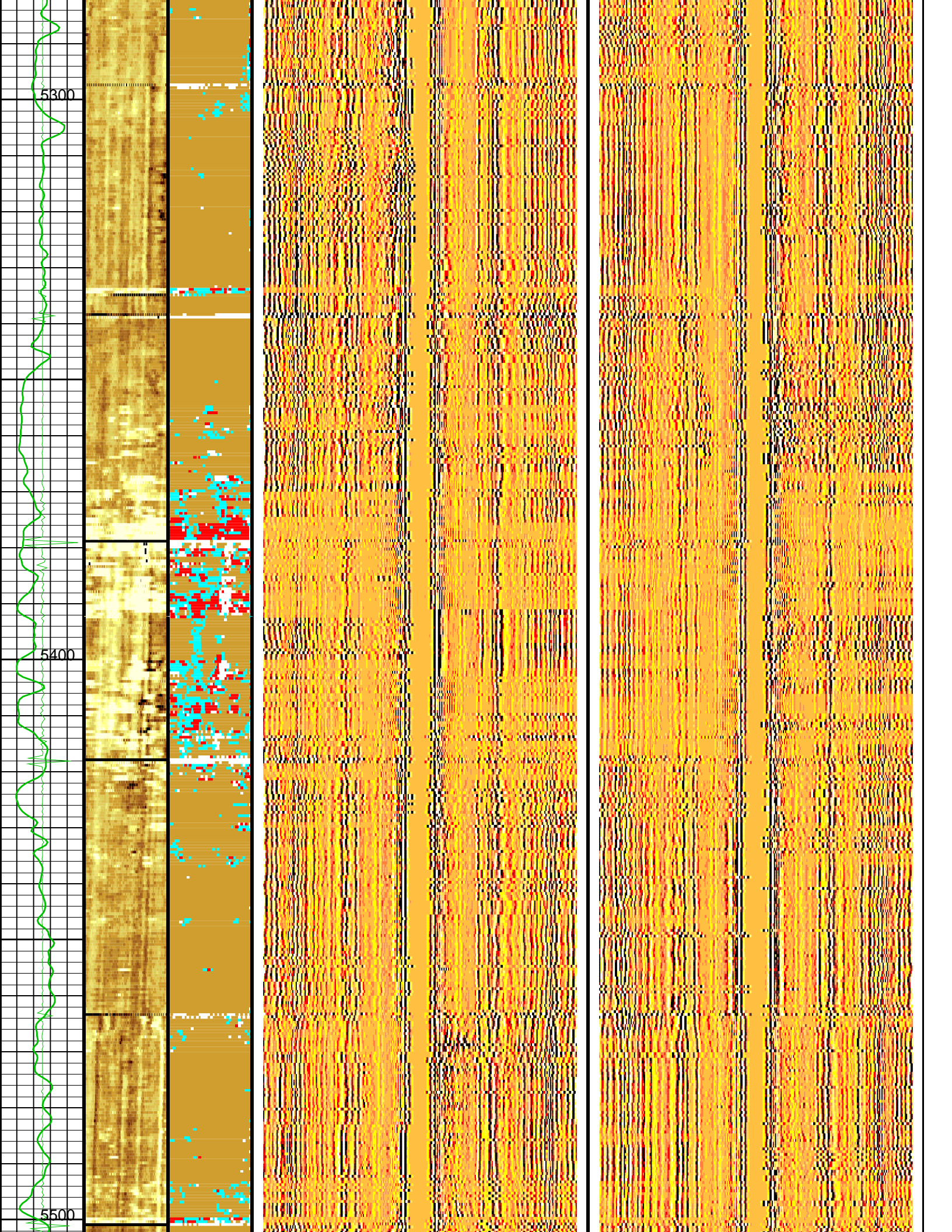


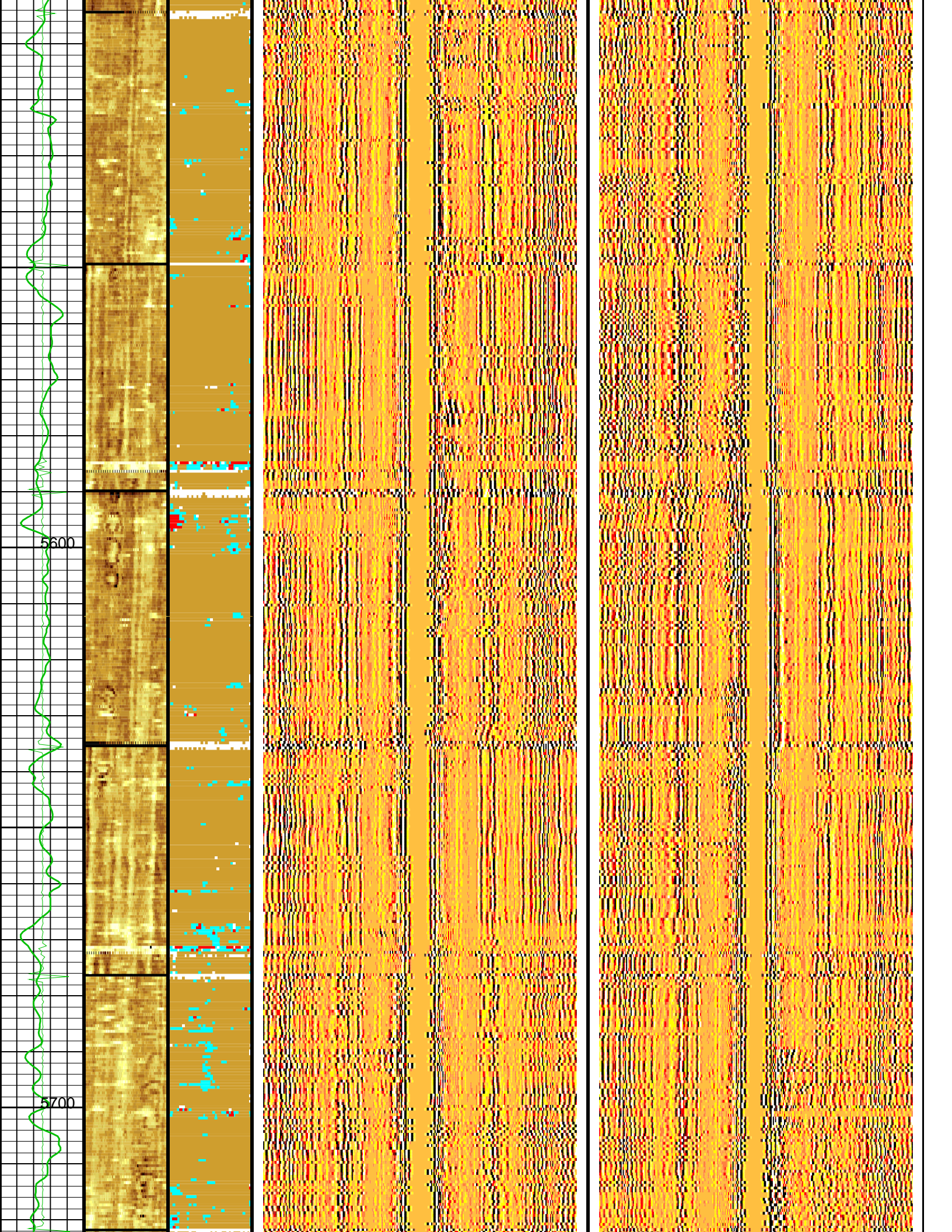


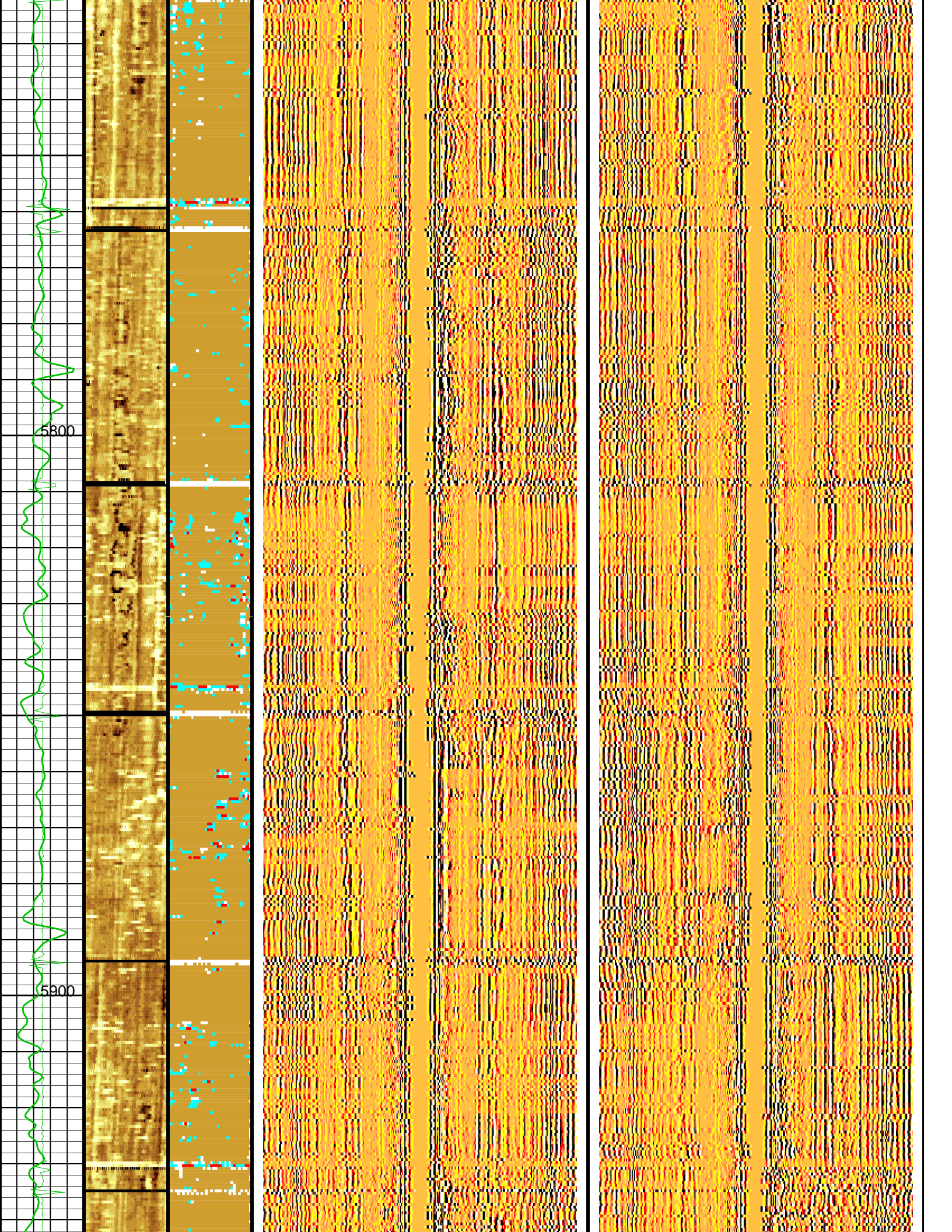


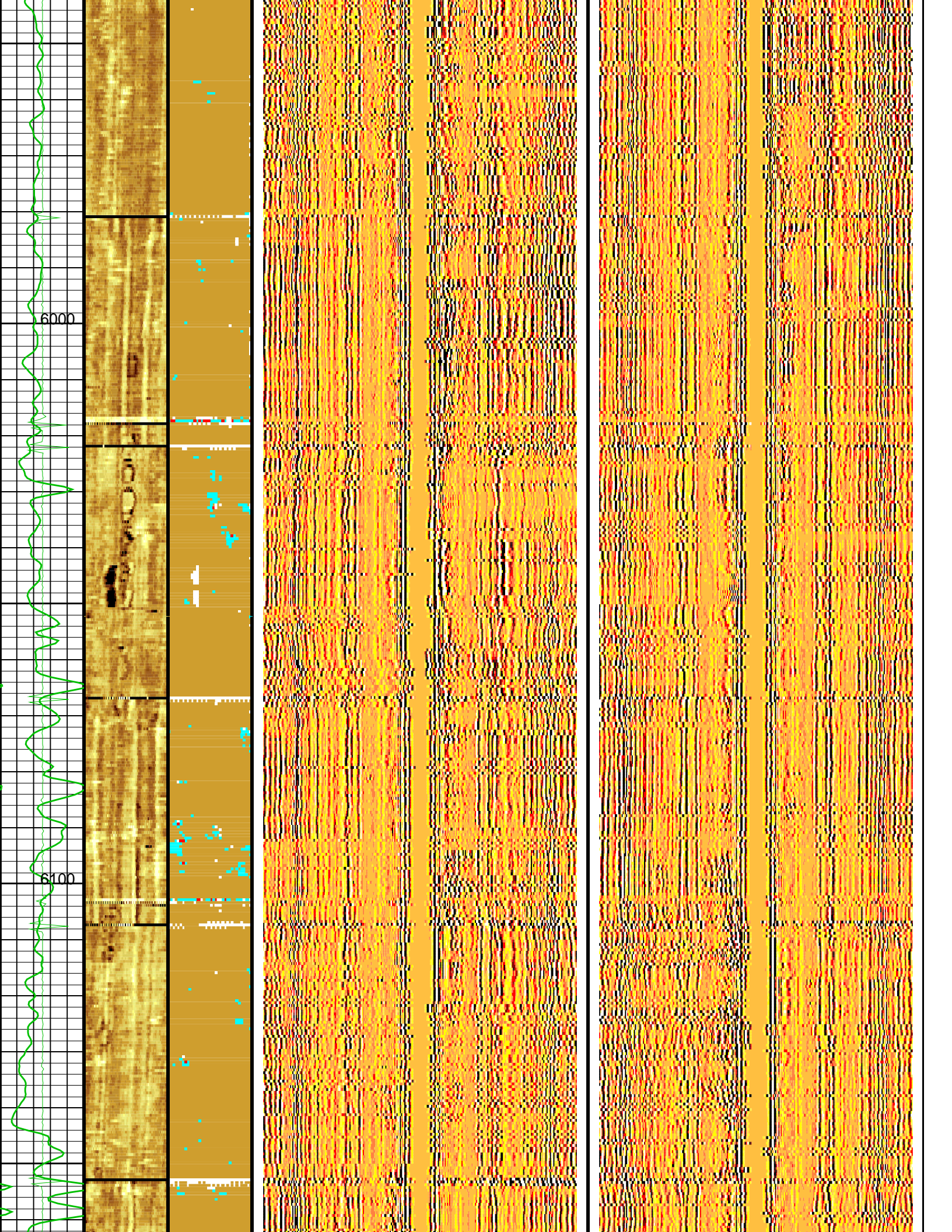


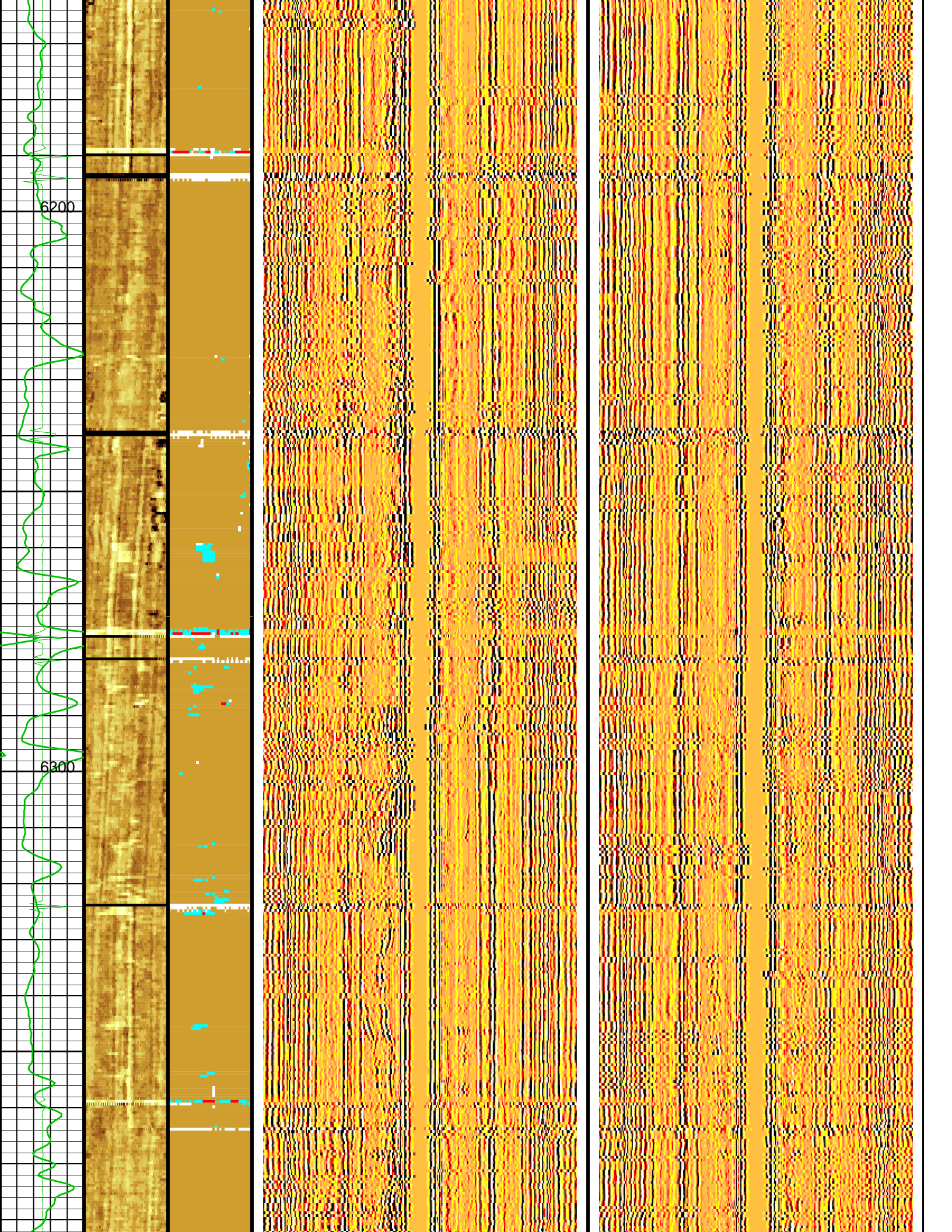


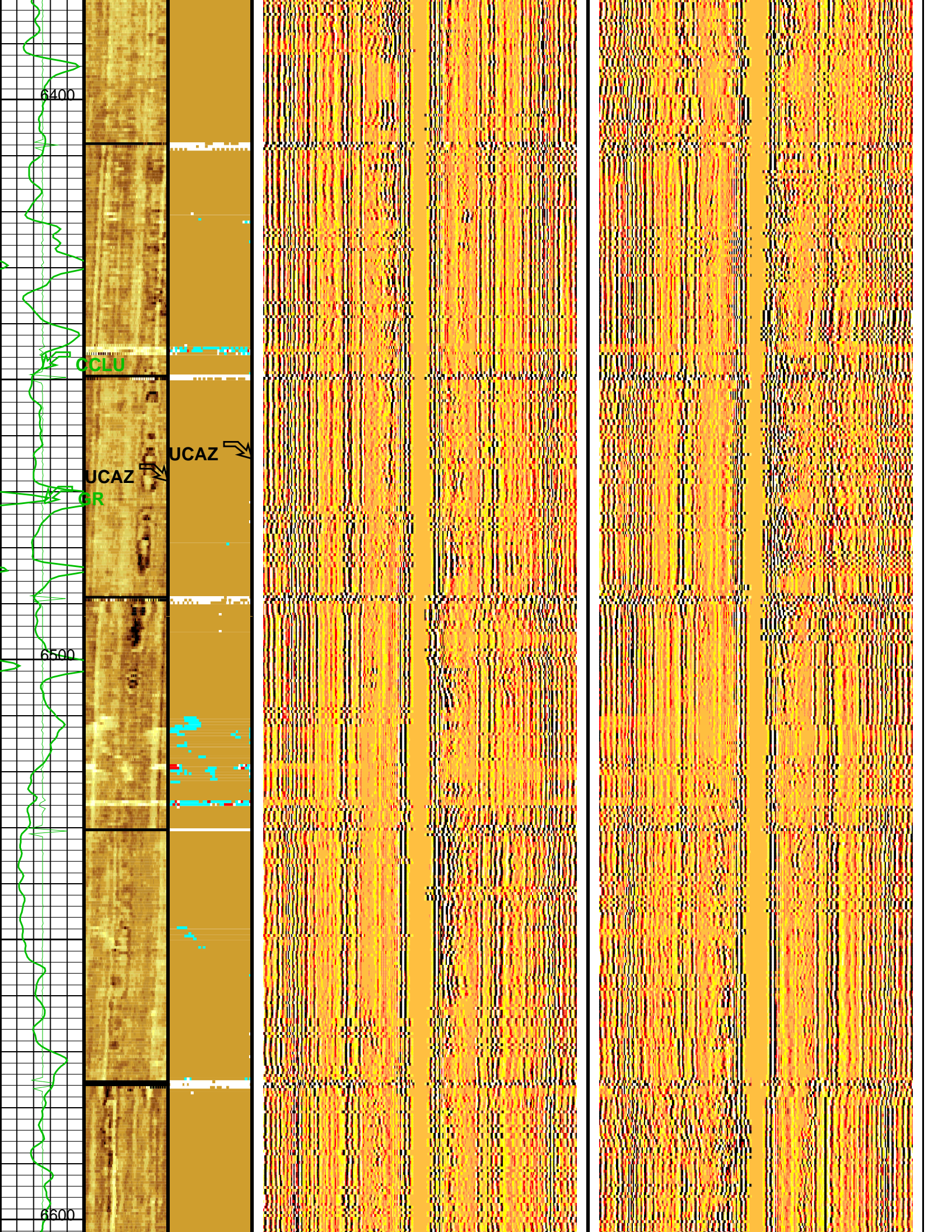


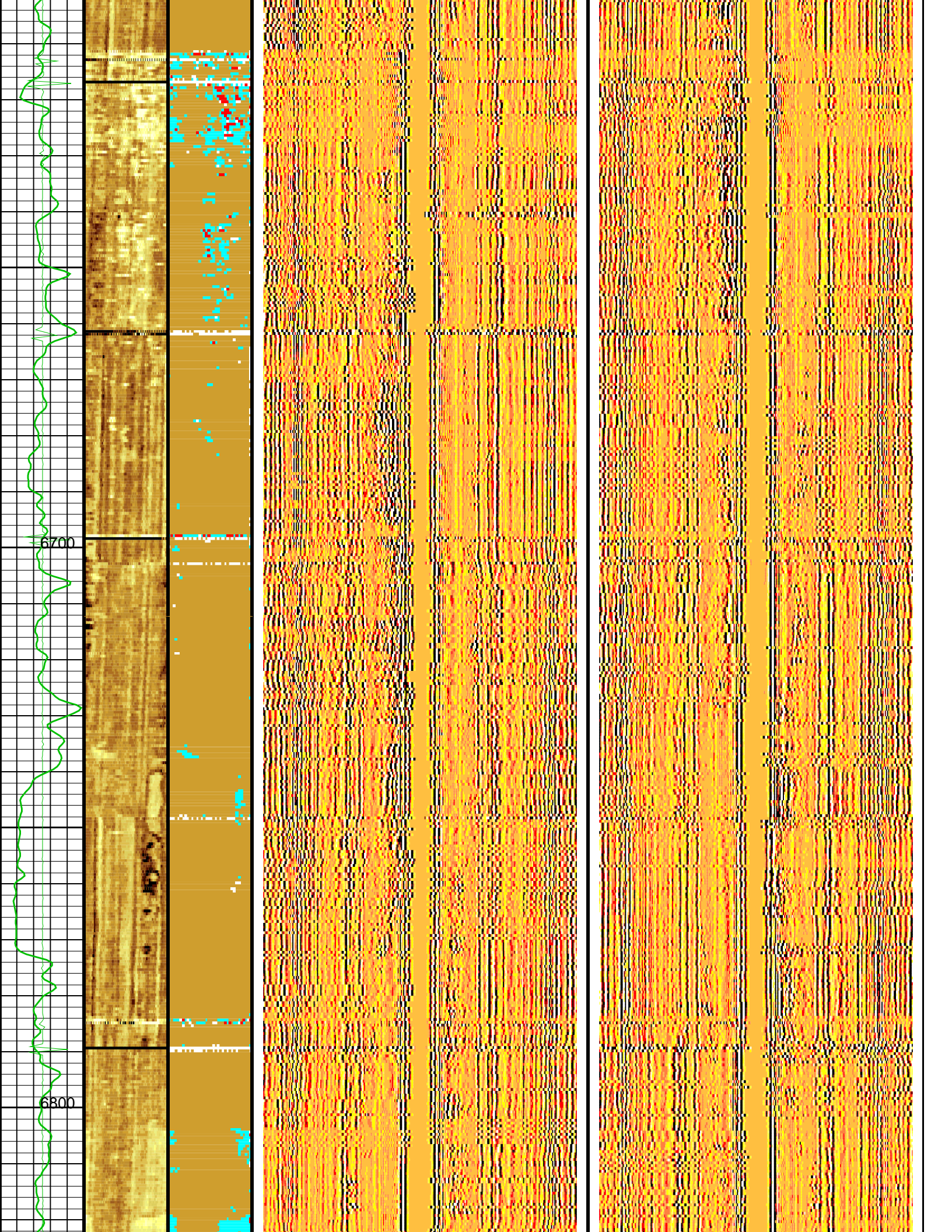


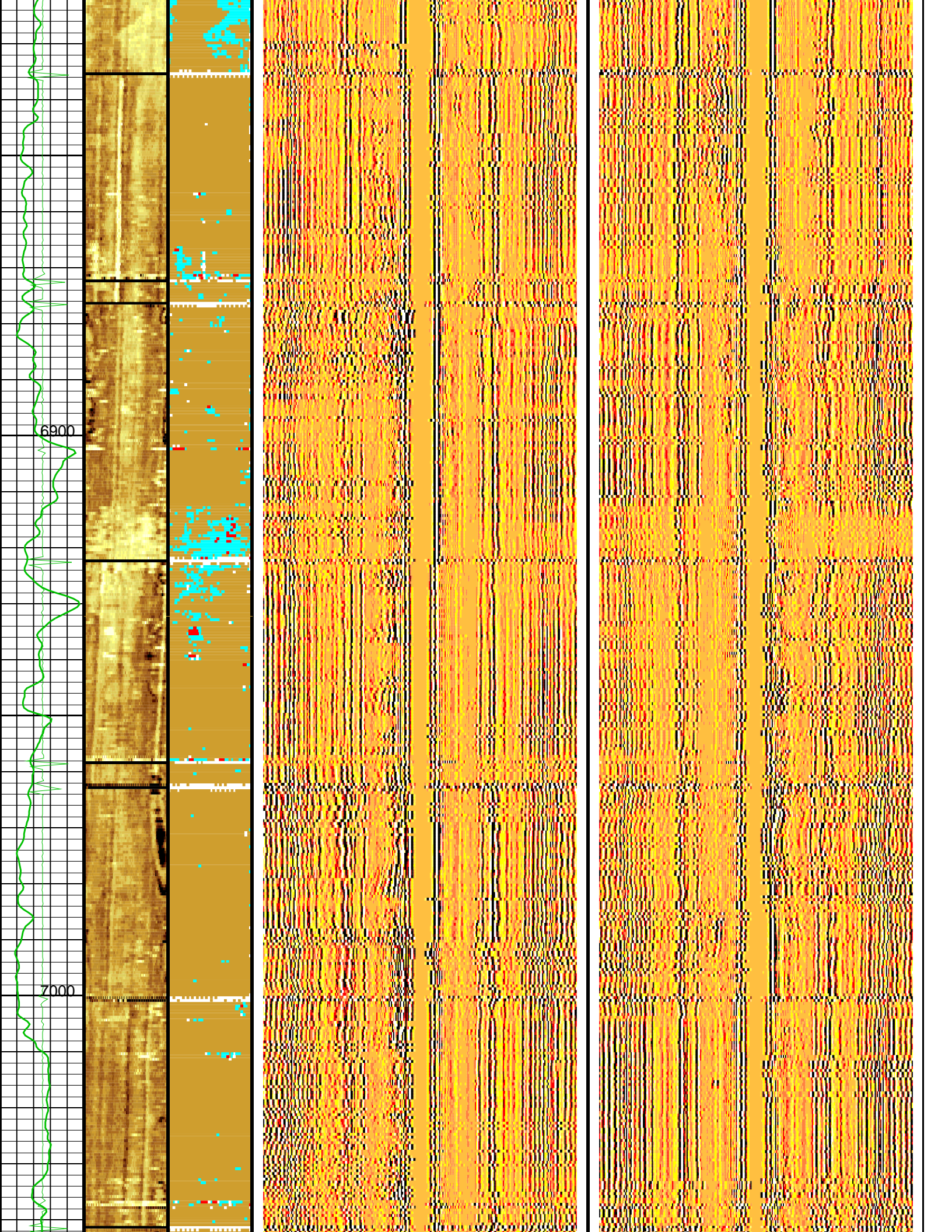


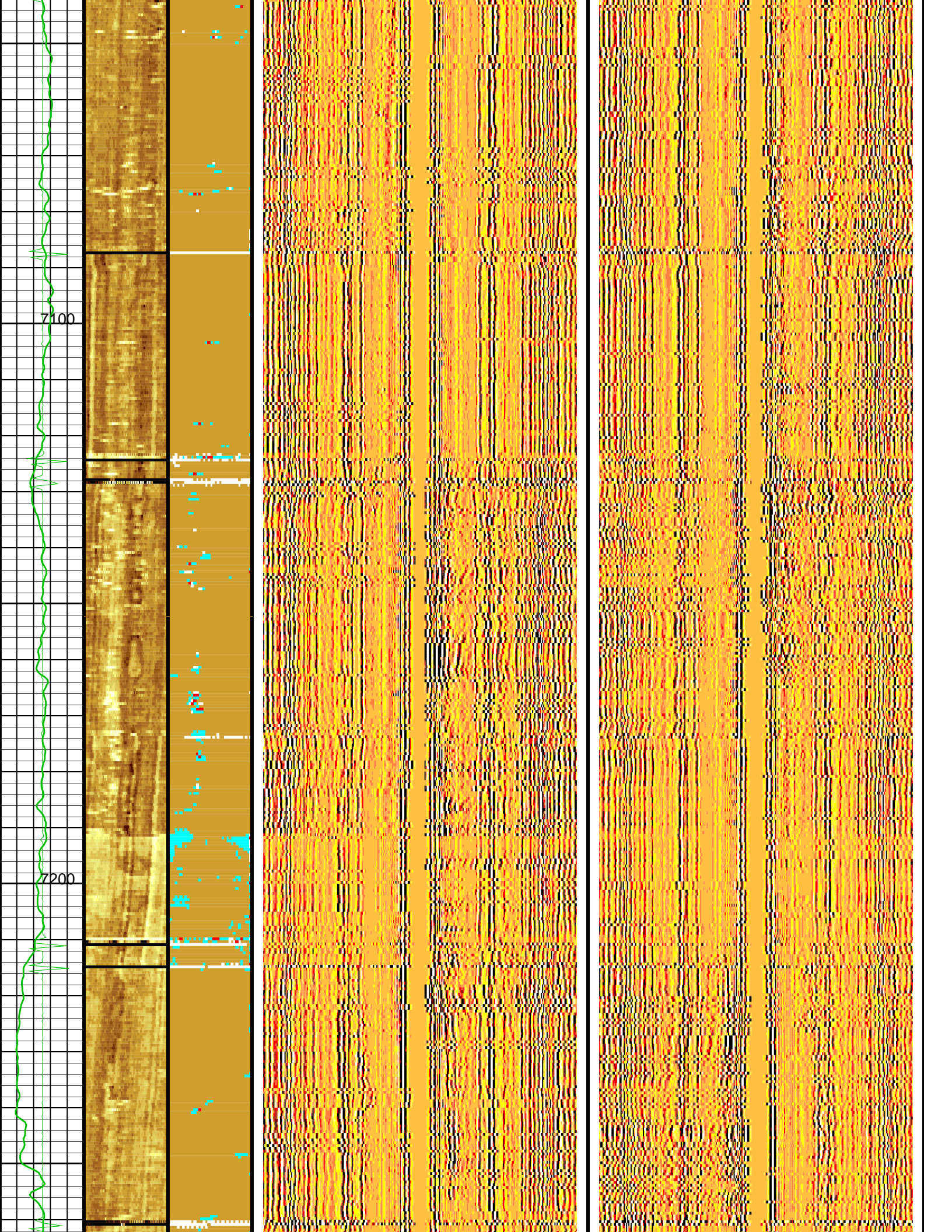


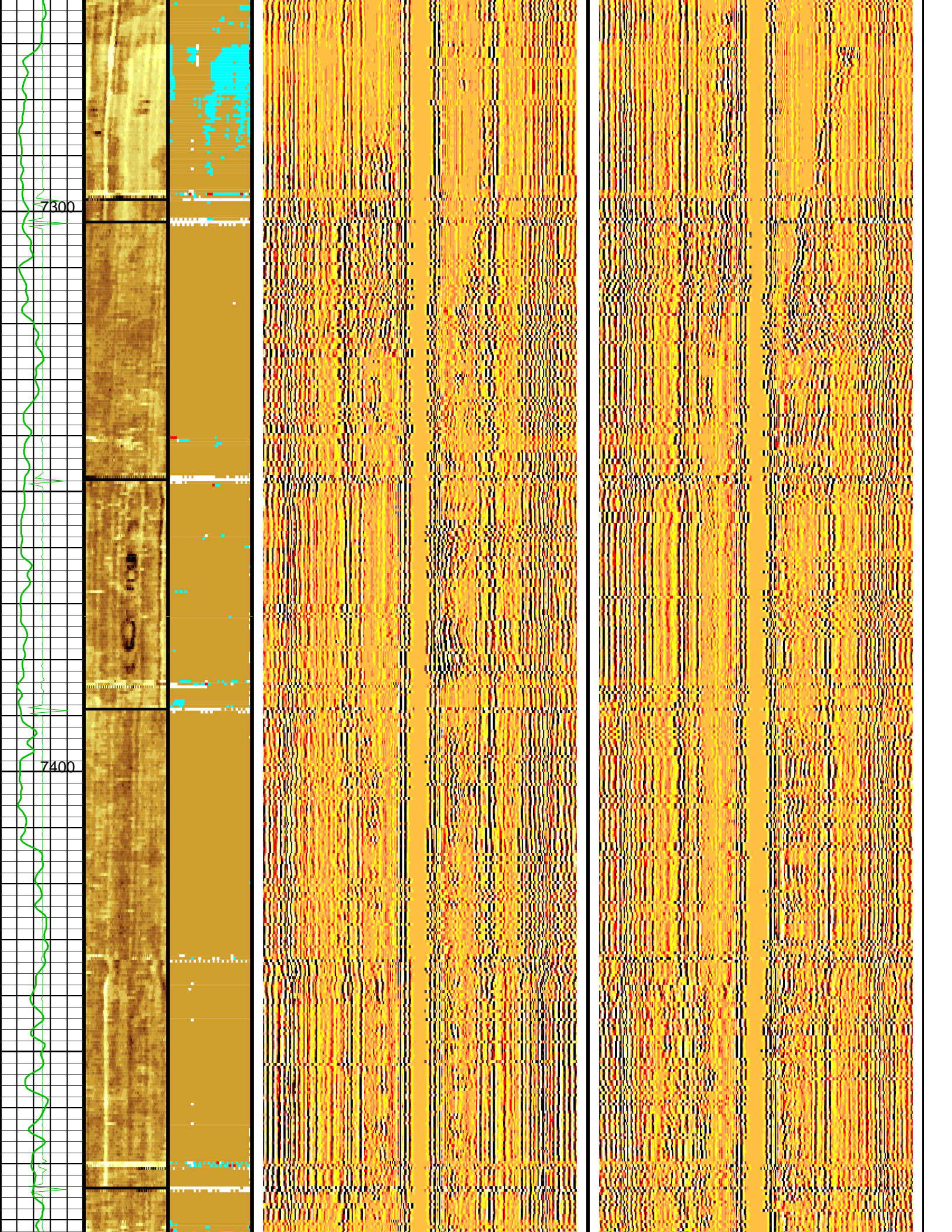






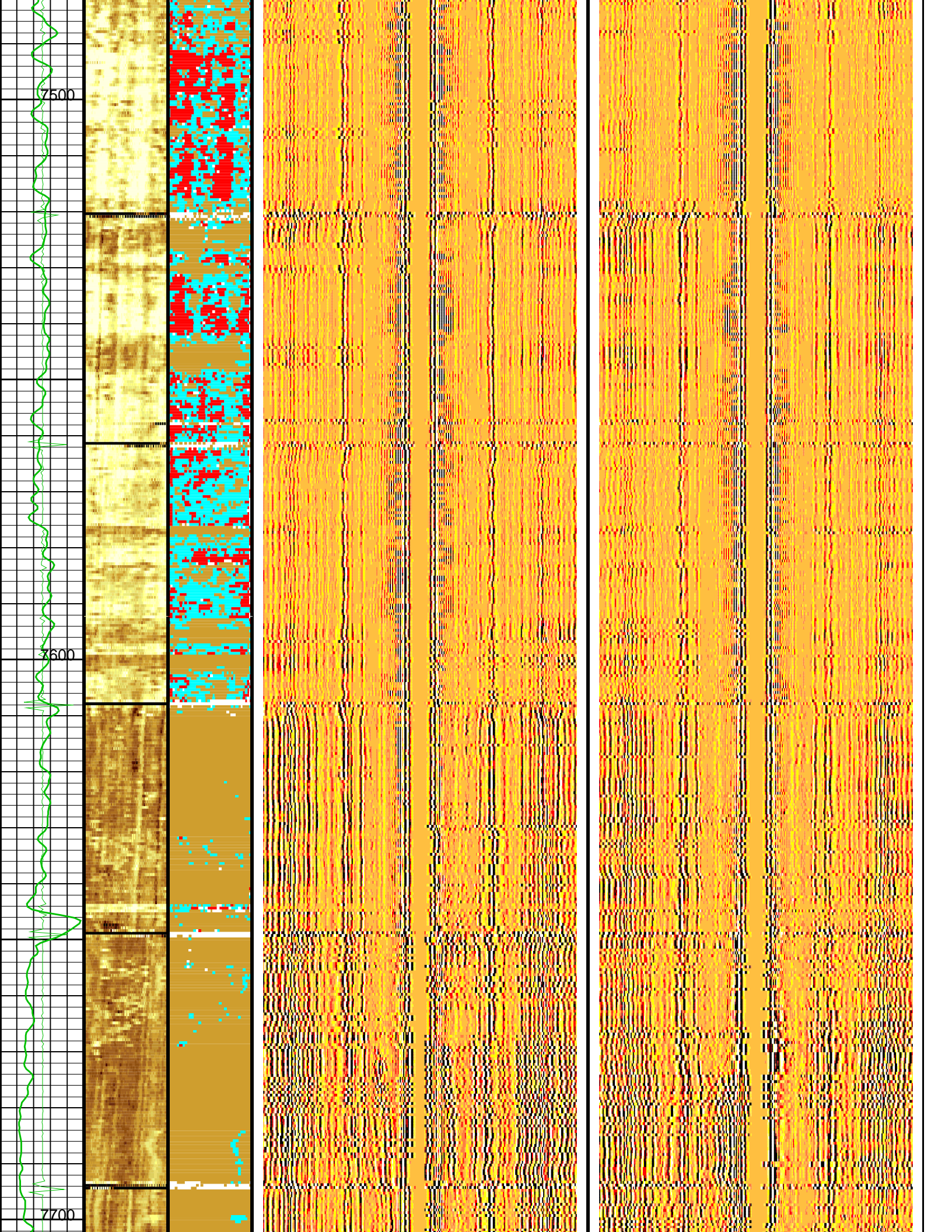


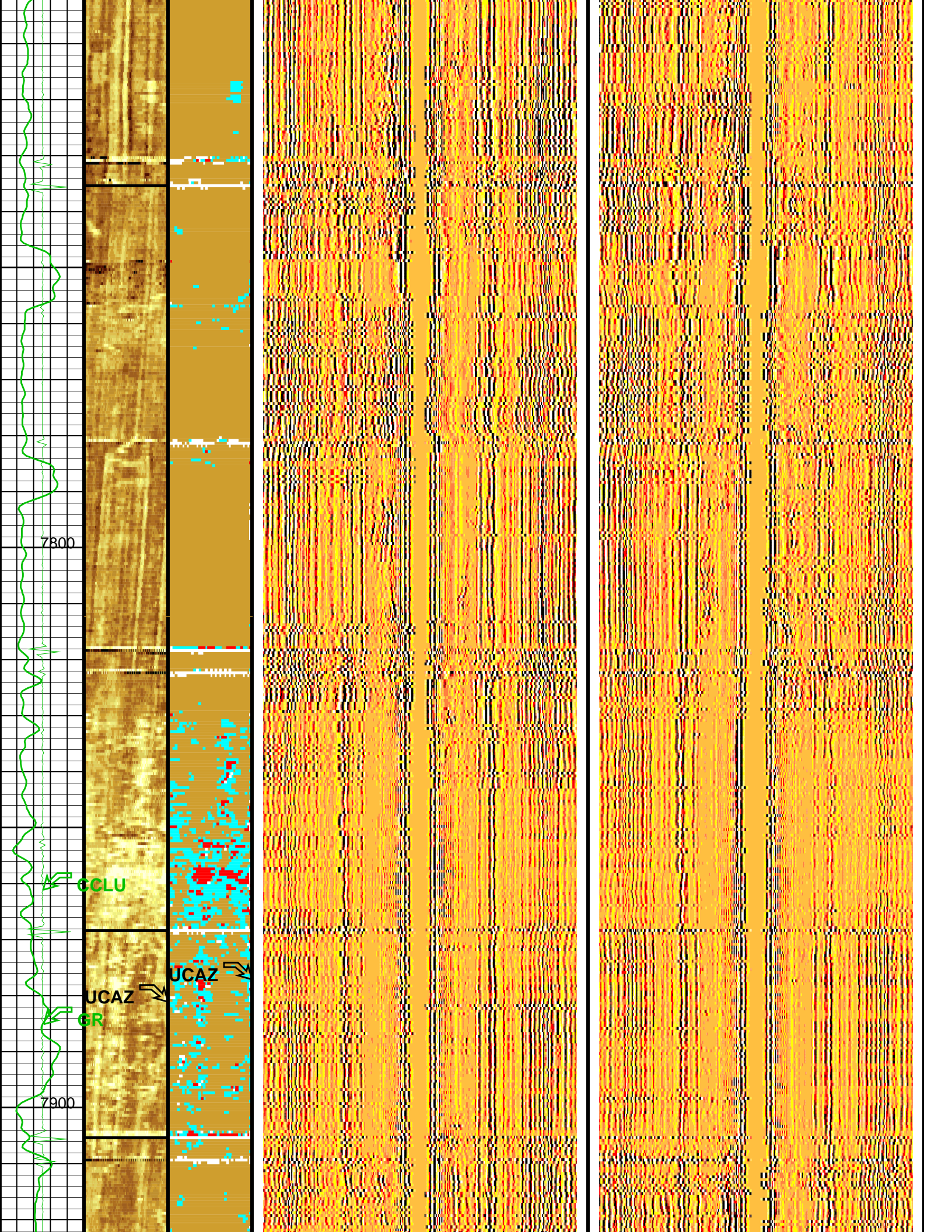




7300

7400





7800

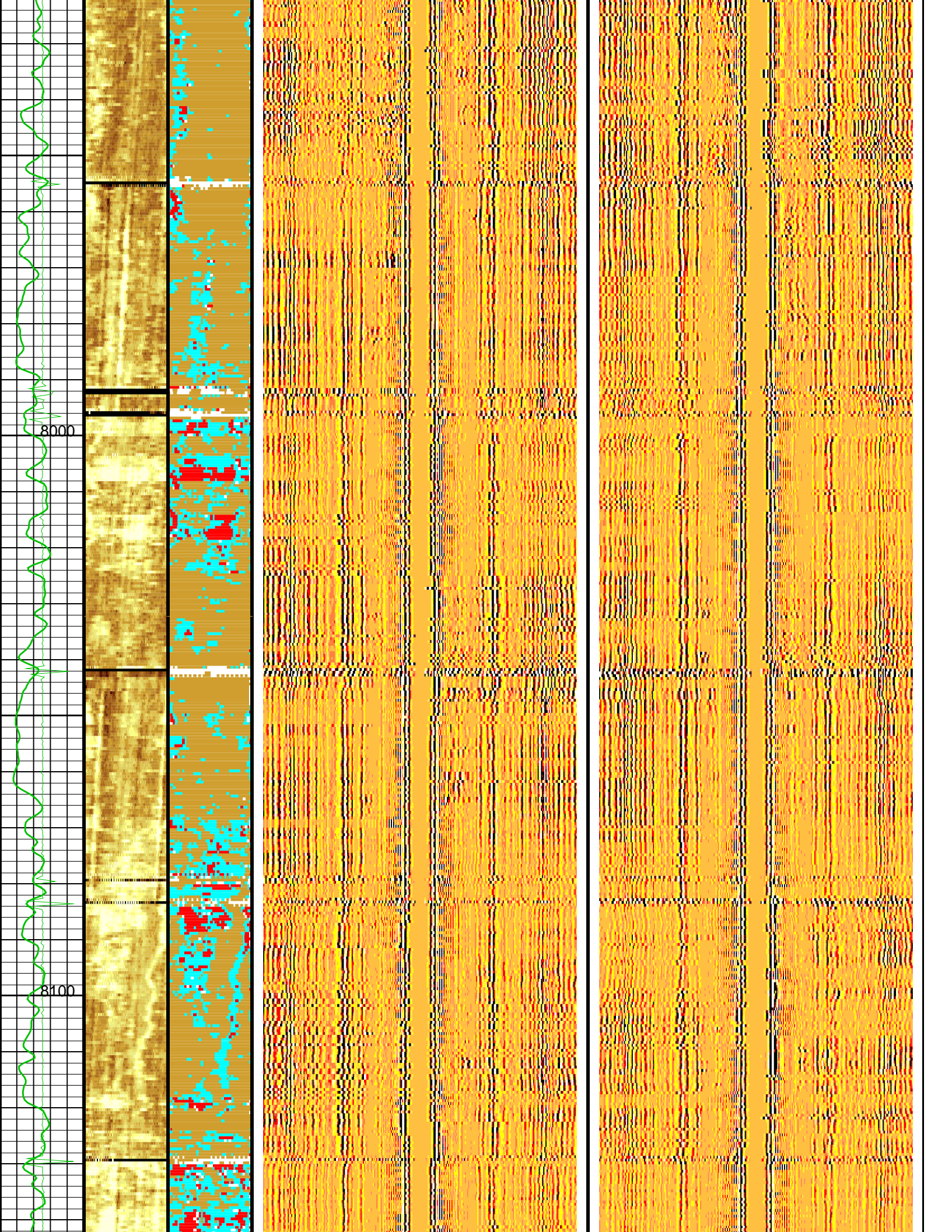
CCLU

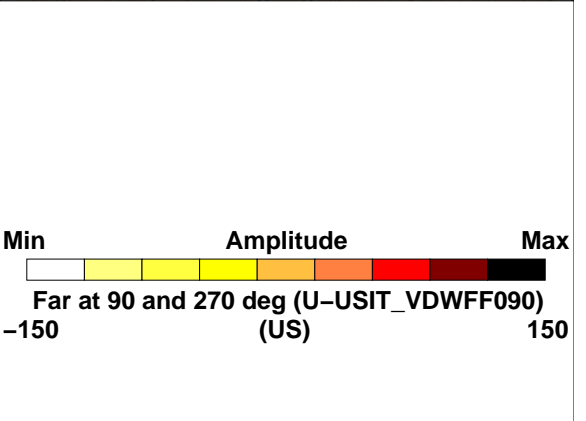
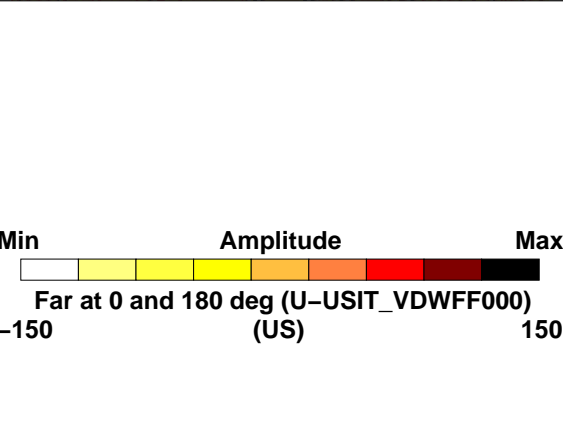
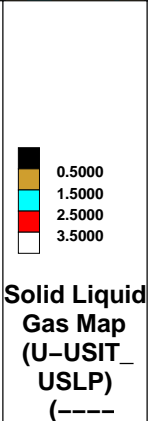
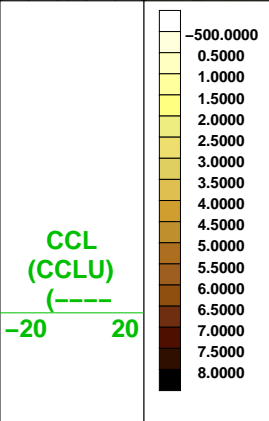
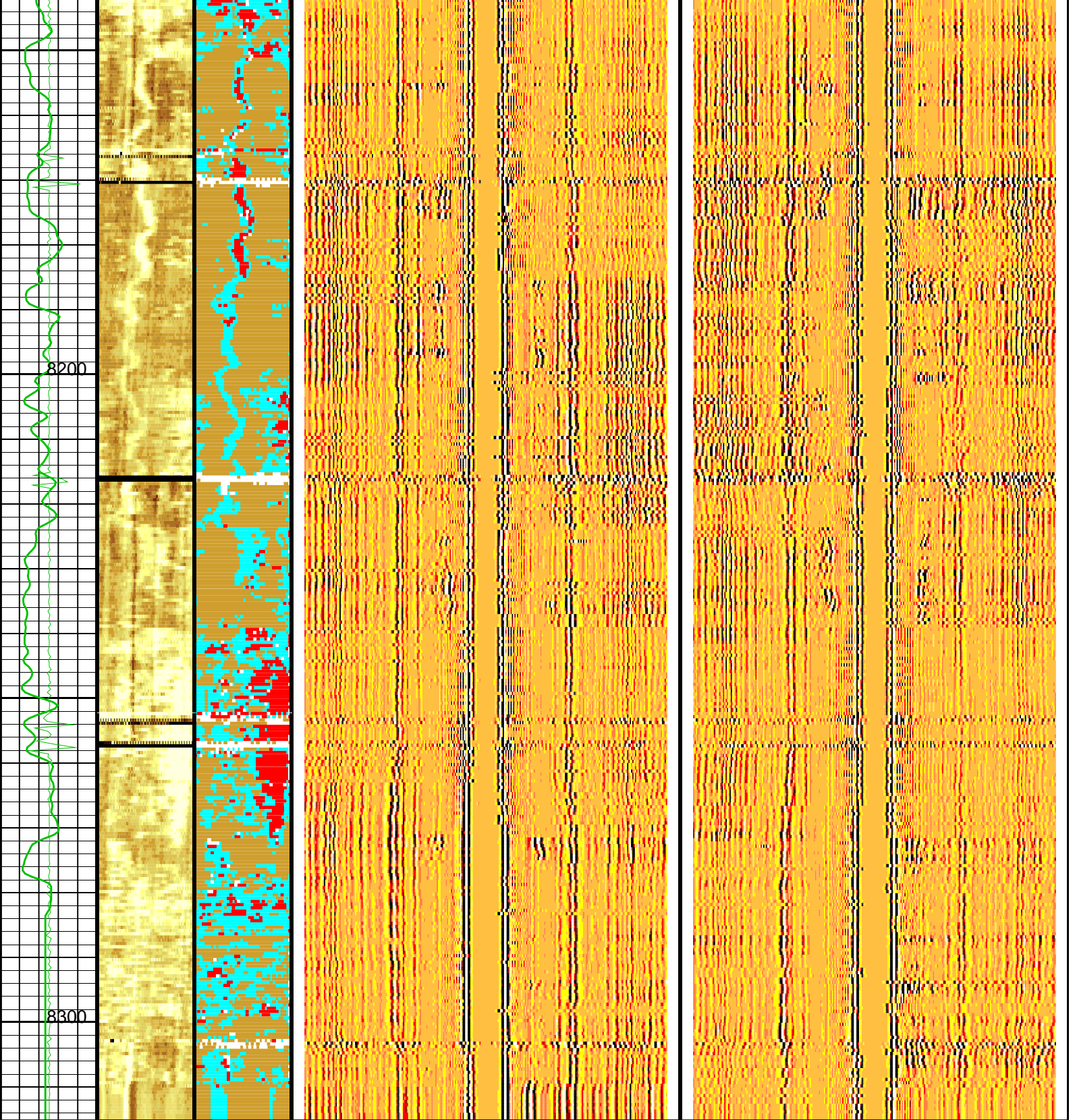
UCAZ

UCAZ

GR

7900





	Acoustic Imped. (AIBK) (MRAY)		
Gamma Ray (GR) (GAPI)			
0	150		

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	206	US/F
DOT	Diameter of Transducer Sensor	1.756	IN
EMXV	EMEX Voltage	80	V
FSOD	Fluid Slowness Fits Casing Outer Diameter	5_UFSL_N_ZMUD	
IMAR	Image Rotation	OFF	
MW	Mud Weight	8.4	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)	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	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	-12	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	33_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	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	1.75	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: 27-Jun-2010 04:33

OP System Version: 17C0-154

USIT-D	17C0-154	HILTH-FTB	17C0-154
DTC-H	17C0-154		

Input DLIS Files

DEFAULT SOURCE USI_TLD_MCFI_000 FN:1 PRODUCED 27 Jun 2010 04:36 0315.0 FT 000.5 FT

Output DLIS Files

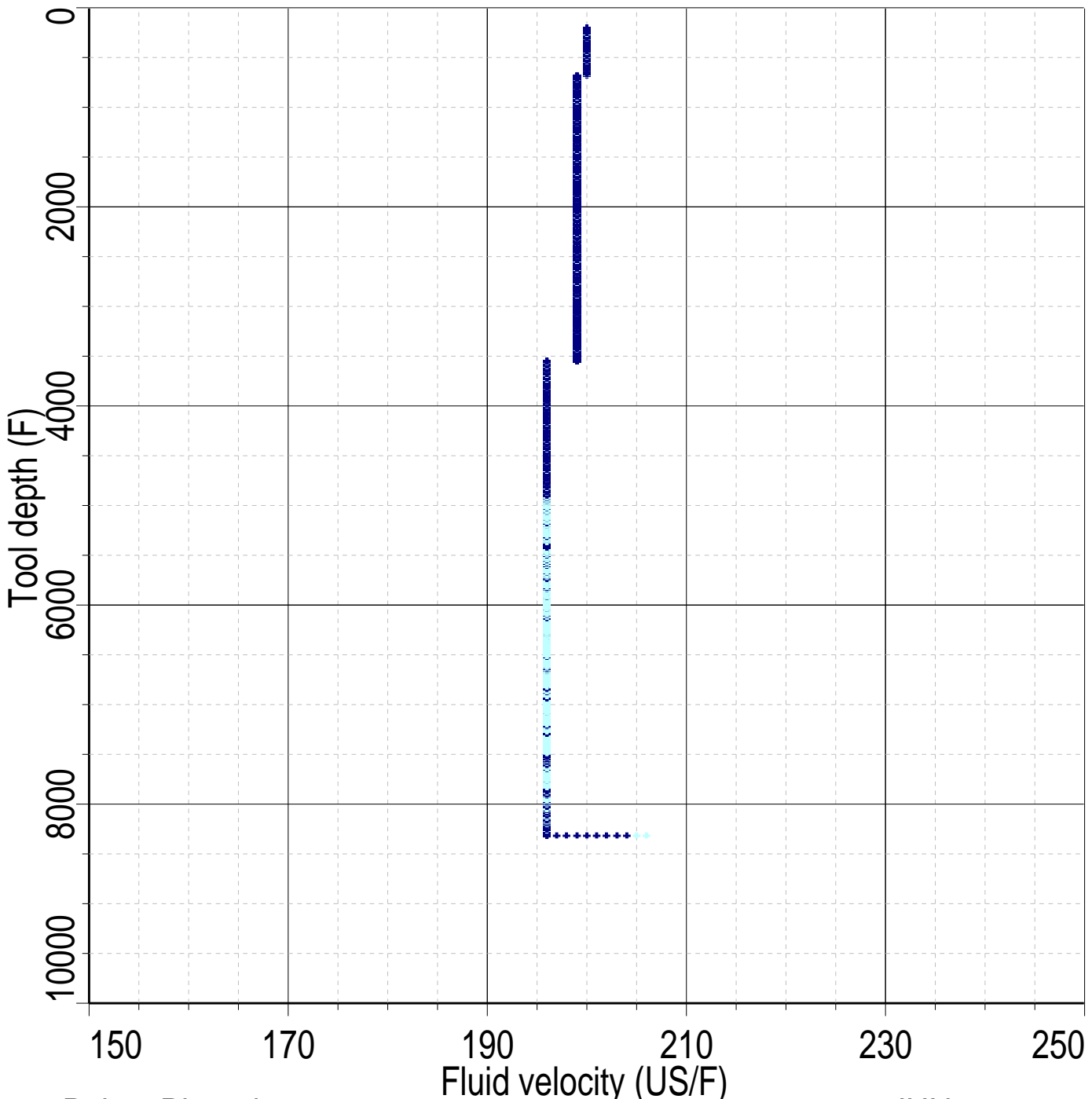
DEFAULT USI_TLD_MCFL_CNL_012PUP FN:10 PRODUCER 27-Jun-2010 04:33



FLUID PROPERTIES

MAXIS Field Log

Index: 8315.0 – 203.5 FT IBC Inv. Fluid Z QC (----) 0.5

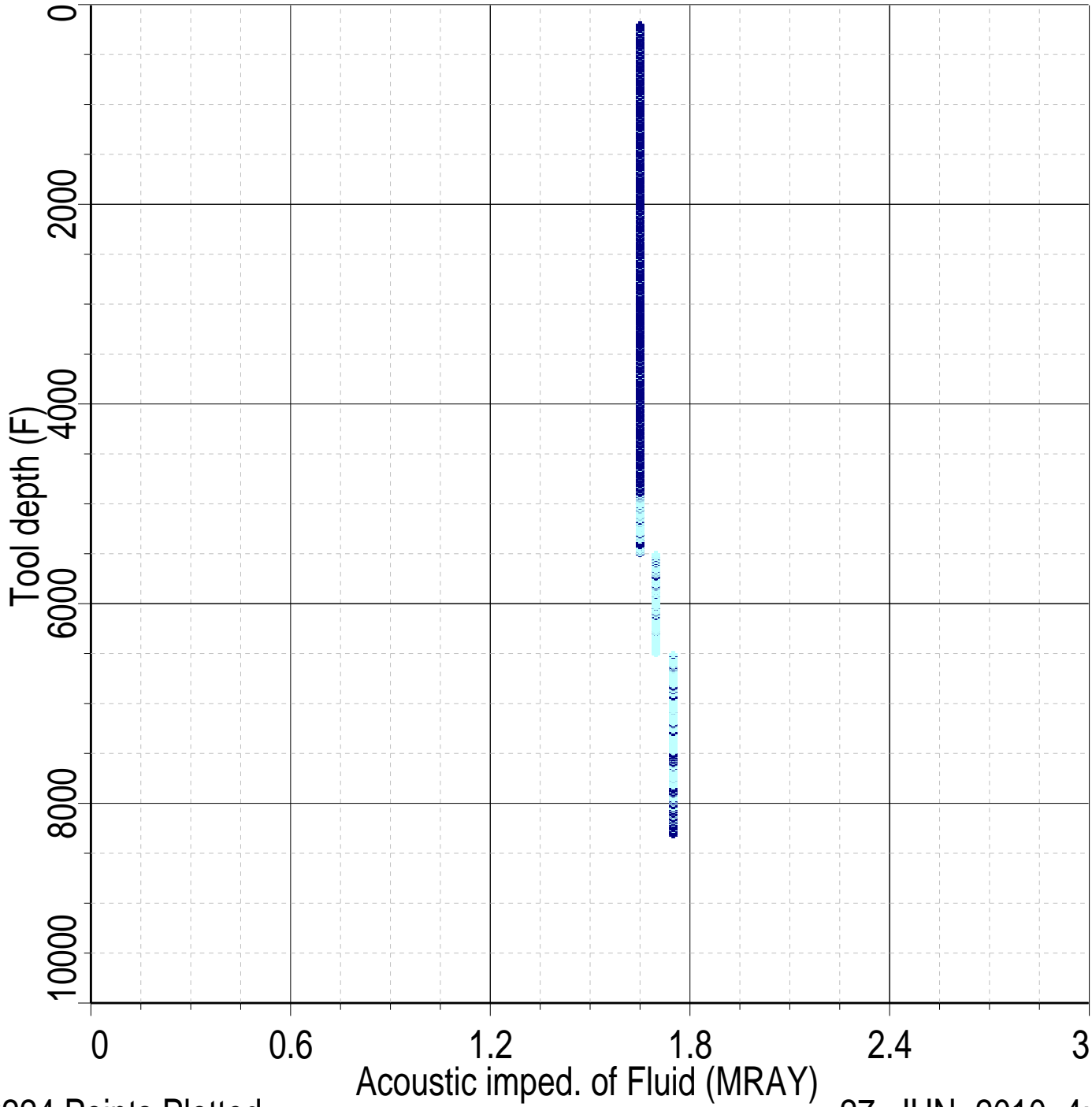


16224 Points Plotted

27-JUN-2010 4:49
IBC Inv. Fluid Z QC (-----)

Index: 8315.0 - 203.5 FT

0.  0.5



16224 Points Plotted

27-JUN-2010 4:49



REPEAT PASS

MAXIS Field Log

Input DLIS Files

DEFAULT USI_TLD_MCFL_CNL_003LUP FN:2 PRODUCER 26-Jun-2010 23:28 8312.5 FT 7993.0 FT

Output DLIS Files

DEFAULT USI_TLD_MCFL_CNL_006PUP FN:5 PRODUCER 27-Jun-2010 04:17 8317.5 FT 7998.0 FT

OP System Version: 17C0-154

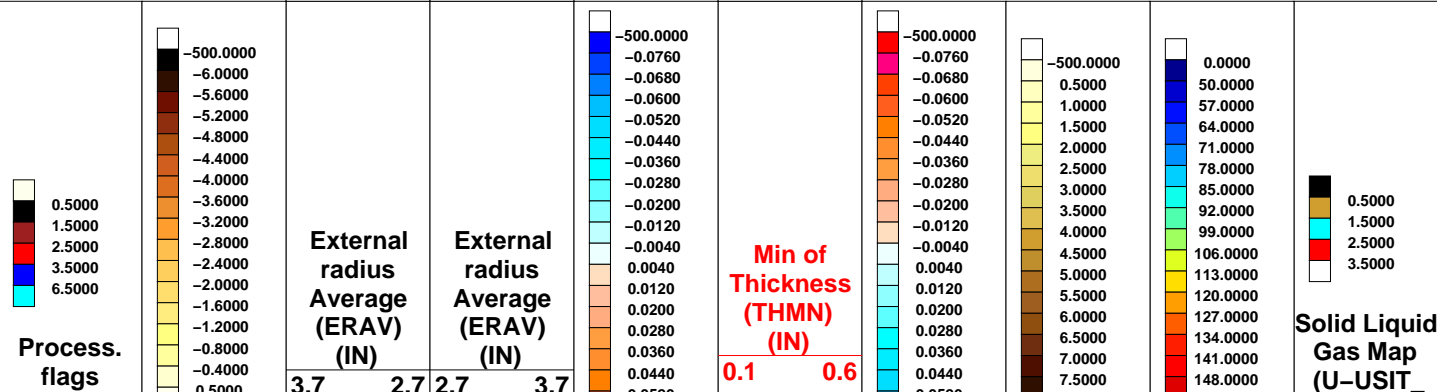
USIT-D 17C0-154 HILTH-FTB 17C0-154
 DTC-H 17C0-154

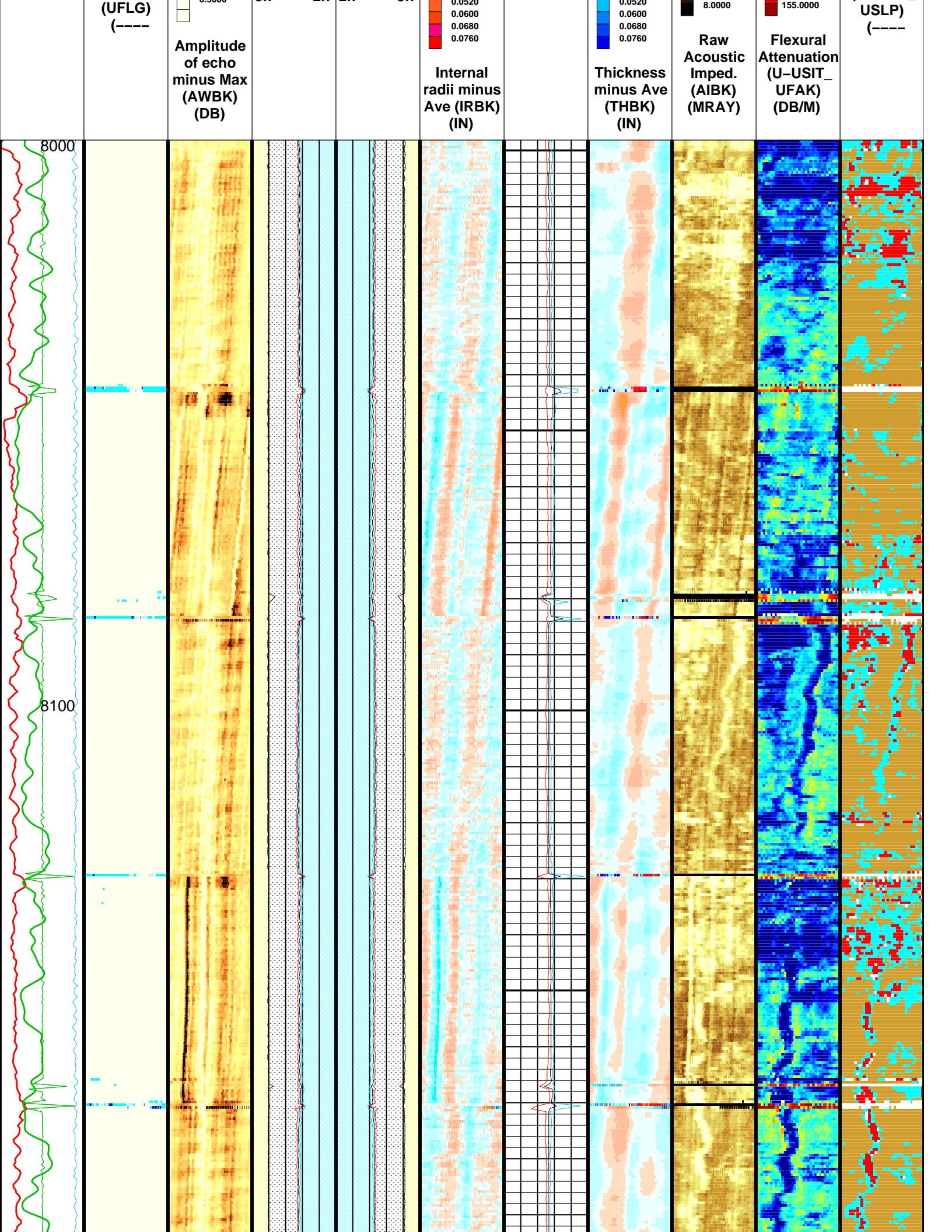
Image rotation (UCAZ) (DEG)	0 360
Tool/Tot. Drag From D4T to STIA	
Cable Drag From D4T to STIT	
Stuck Stretch (STIT)	0 (F) 50
Gamma Ray (GR) (GAPI)	0 150
CCL (CCLU) (----)	-20 20
RSAV (RSAV) (RPS)	6 7.5
CCL (CCLU) (----)	-20 20

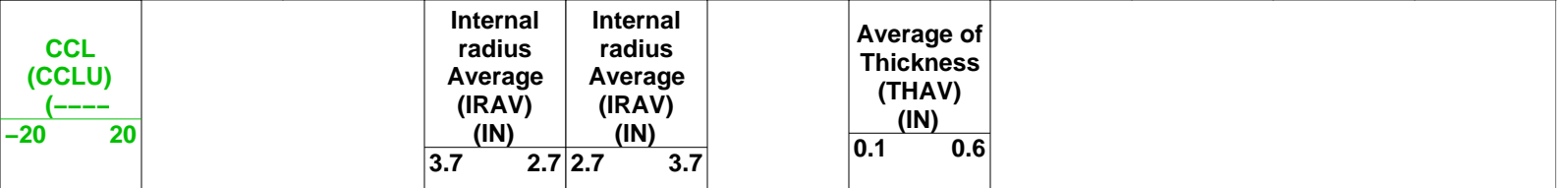
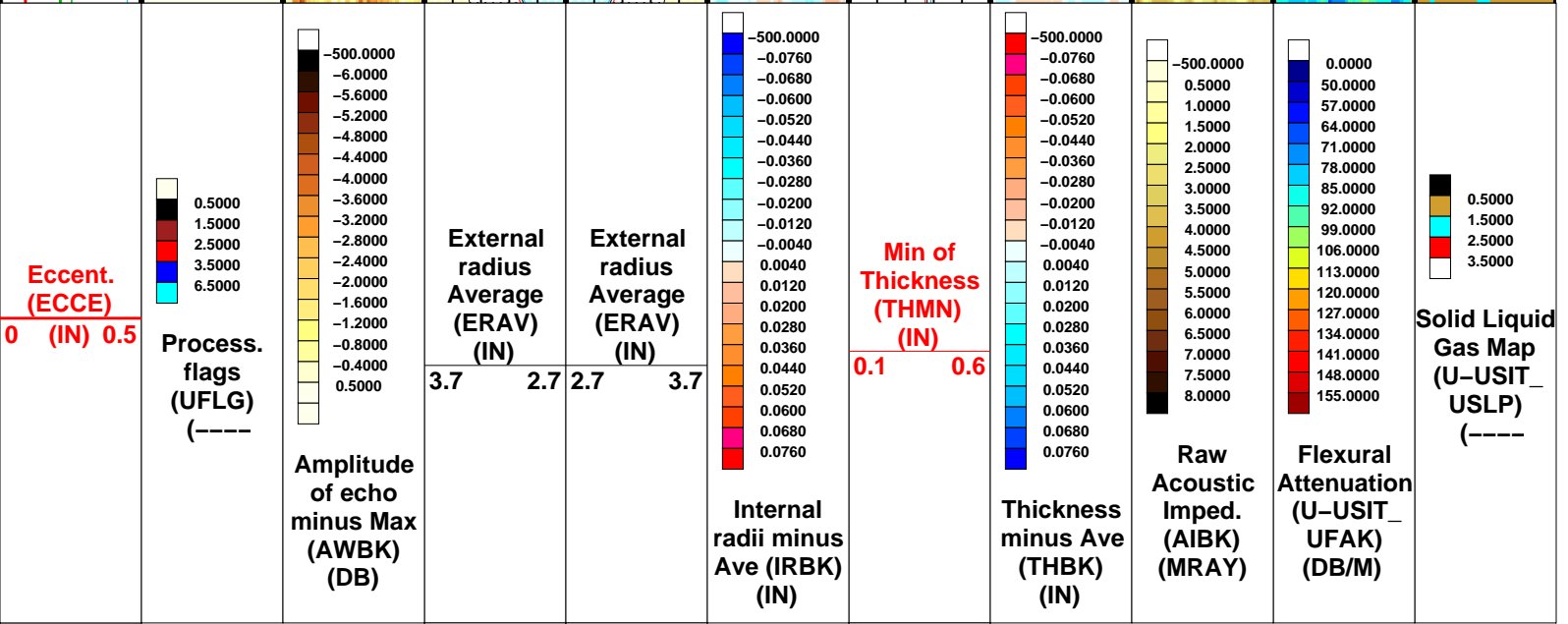
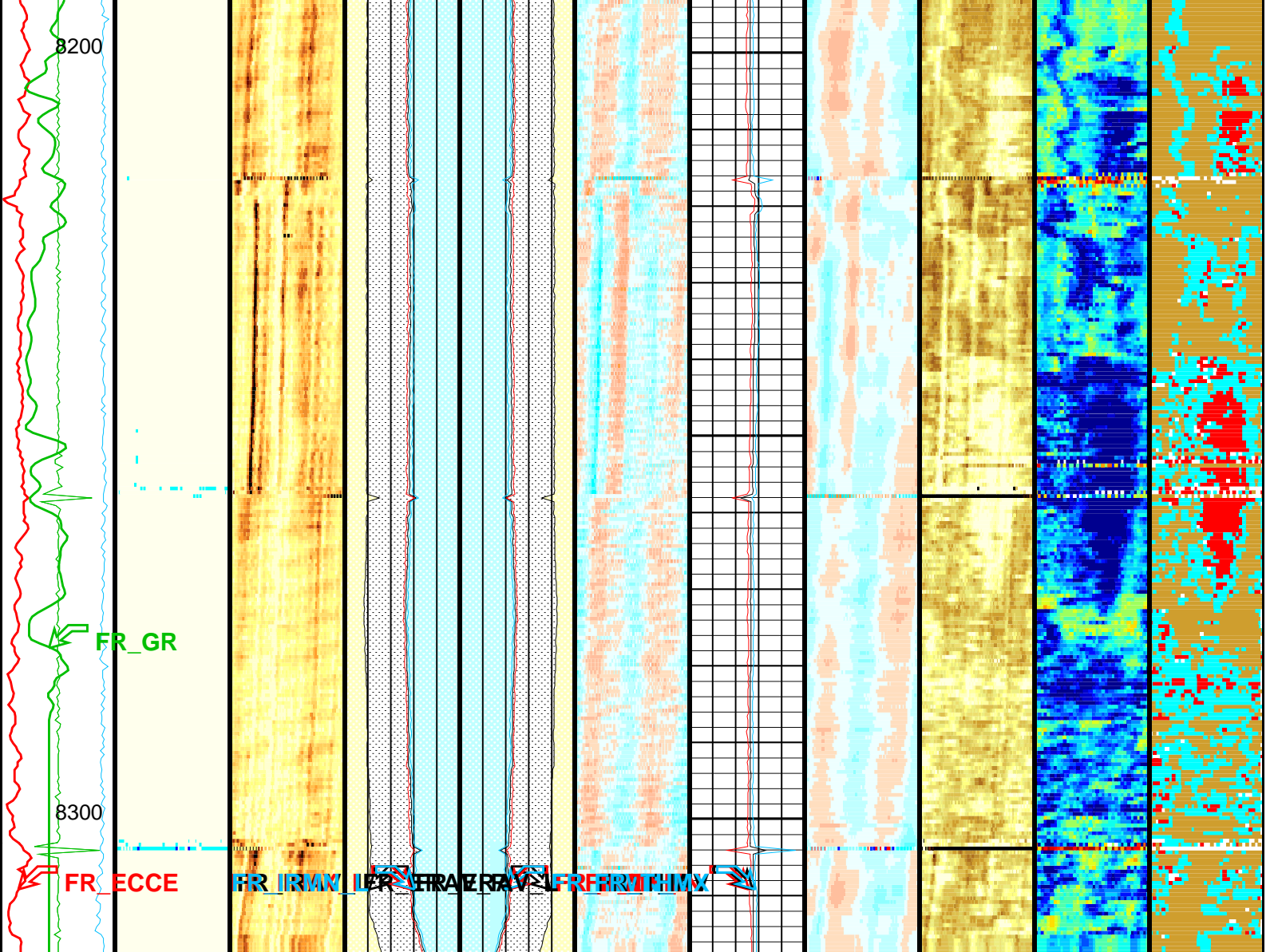
Min of Internal radius (IRMN) (IN)	3.7 2.7	Min of Internal radius (IRMN) (IN)	2.7 3.7
Internal radius Maximum (IRMX) (IN)	3.7 2.7	Internal radius Maximum (IRMX) (IN)	2.7 3.7
Internal radius Average (IRAV) (IN)	3.7 2.7	Internal radius Average (IRAV) (IN)	2.7 3.7

Maximum of Thickness (THMX) (IN)	0.1 0.6
Average of Thickness (THAV) (IN)	0.1 0.6

Eccent. (ECCE) (IN)	0 0.5
Process. flags	







(RPS)	6	7.5
CCL (CCLU) (----)	-20	20
Gamma Ray (GR) (GAPI)	0	150
Stuck Stretch (STIT)	0	50
Cable Drag From D4T to STIT		
Tool/Tot. Drag From D4T to STIA		
Image rotation (UCAZ) (DEG)	0	360

(IRMX) (IN)	3.7	2.7	(IRMX) (IN)	2.7	3.7
Min of Internal radius (IRMN) (IN)	3.7	2.7	Min of Internal radius (IRMN) (IN)	2.7	3.7

(THMX) (IN)	0.1	0.6
----------------	-----	-----

Format: USI_IBC_SLG_Composite Vertical Scale: 5" per 100' Graphics File Created: 27-Jun-2010 04:17

OP System Version: 17C0-154

USIT-D	17C0-154	HILTH-FTB	17C0-154
DTC-H	17C0-154		

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	206 US/F
DOT	Diameter of Transducer Sensor	1.756 IN
EMXV	EMEX Voltage	80 V
FSOD	Fluid Slowness Fits Casing Outer Diameter	5_UFSL_N_ZMUD
IMAR	Image Rotation	OFF
MW	Mud Weight	8.4 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)	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	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	-12	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	33_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	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	1.75	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	2.5	FT
TDD	Total Depth - Driller	8421.00	FT
TDL	Total Depth - Logger	8310.00	FT
System and Miscellaneous			
BS	Bit Size	9.875	IN
CWEI	Casing Weight	26.00	LB/F
DO	Depth Offset for Playback	5.0	FT
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT USI_TLD_MCFL_CNL_003LUP FN:2 PRODUCER 26-Jun-2010 23:28 8312.5 FT 7993.0 FT

Output DLIS Files

DEFAULT USI_TLD_MCFL_CNL_006PUP FN:5 PRODUCER 27-Jun-2010 04:17



CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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High resolution Integrated Logging Tool-DTS Wellsite Calibration - Detector Calibration

Before: 23-Jun-2010 14:06

Gamma Ray Background	30.00	N/A	29.00	N/A	N/A	N/A	GAPI
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Gamma Ray (Jig - Bkg)	168.1	N/A	168.1	N/A	N/A	15.28	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Zero Measurement

Master: 19-May-2010 12:23 Before: 23-Jun-2010 14:07

CNTC Background	27.64	27.64	27.27	N/A	N/A	4.146	CPS
CFTC Background	28.93	28.93	27.90	N/A	N/A	4.340	CPS

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Ratio Measurement

Master: 19-May-2010 12:23

Thermal Near Corr. (Tank)	5800	5258	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2175	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.417	N/A	N/A	N/A	N/A	

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Accelerometer Calibration

Before: 26-Jun-2010 11:48

Z-Axis Acceleration	32.19	N/A	32.14	N/A	N/A	N/A	F/S2
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The HGNS Neutron Master Calibration was done with the following parameters :

NCT-B Water Temperature 61.8 DEG.F.
 Thermal Housing Size 3.374 IN.
 NSR-F serial number 5138

High resolution Integrated Logging Tool-DTS / Equipment Identification

Primary Equipment:

HILT Gamma-Ray Neutron Sonde-DTS	HGNS - H	
HGNS Gamma-Ray Device	HGR -	
HGNS Neutron Detector with Alpha Source	HCNT - H	
Z-Axis Accelerometer	HACC - H	3577
Neutron Logging Source	NLS - KL	
Neutron Source Radioactive	NSR - F	5138
Compensated Neutron Box	CNB - AB	
HTBC Communication Assembly DTS Mode	HMCA - H	

Auxiliary Equipment:

Neutron Calibration Tank	NCT - B
Gamma Source Radioactive	GSR - U/Y
HGNS Housing	HGNH -

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background	GAPI	Value	Phase	Gamma Ray (Jig - Bkg)	GAPI	Value	Phase	Gamma Ray (Calibrated)	GAPI	Value
Before			29.00	Before			168.1	Before			165.0
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)				152.8 (Minimum) 168.1 (Nominal) 183.4 (Maximum)				150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)		

Before: 23-Jun-2010 14:06

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Zero Measurement

Phase	CNTC Background	CPS	Value	Phase	CFTC Background	CPS	Value
Master			27.64	Master			28.93
Before			27.27	Before			27.90
	5.000 (Minimum) 27.64 (Nominal) 40.00 (Maximum)				5.000 (Minimum) 28.93 (Nominal) 40.00 (Maximum)		

Master: 19-May-2010 12:23

Before: 23-Jun-2010 14:07

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Ratio Measurement

Phase	Thermal Near Corr. (Tank)	CPS	Value	Phase	Thermal Far Corr. (Tank)	CPS	Value	Phase	CNTC/CFTC (Tank)	Value
Master			5258	Master			2175	Master		2.417
	4700 (Minimum) 5800 (Nominal) 6900 (Maximum)				1900 (Minimum) 2400 (Nominal) 2900 (Maximum)				2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)	

Master: 19-May-2010 12:23

High resolution Integrated Logging Tool-DTS
 Wellsite Calibration

Accelerometer Calibration		
Phase	Z-Axis Acceleration F/S2	Value
Before		32.14
	31.53 (Minimum)	32.84 (Maximum)
	32.19 (Nominal)	

Before: 26-Jun-2010 11:48

High resolution Integrated Logging Tool-DTS Master Calibration					
Zero Measurement					
Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		27.64	Master		28.93
	5.000 (Minimum)	40.00 (Maximum)		5.000 (Minimum)	40.00 (Maximum)
	27.64 (Nominal)			28.93 (Nominal)	

Master: 19-May-2010 12:23

High resolution Integrated Logging Tool-DTS Master Calibration								
Tank Measurement								
Phase	Thermal Near Corr. (Tank) CPS	Value	Phase	Thermal Far Corr. (Tank) CPS	Value	Phase	CNTC/CFTC (Tank)	Value
Master		5258	Master		2175	Master		2.417
	4700 (Minimum)	6900 (Maximum)		1900 (Minimum)	2900 (Maximum)		2.120 (Minimum)	2.540 (Maximum)
	5800 (Nominal)			2400 (Nominal)			2.159 (Nominal)	

Master: 19-May-2010 12:23

DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge
DTC-H Telemetry Cartridge

DTCH - A
DTCH - A

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing

ECH - KC

Company: EXXONMOBIL PRODUCTION CO.

Schlumberger

Well: PCU 197-34A9
Field: PICEANCE CREEK
County: RIO BLANCO
State: CO

IMAGING BEHIND CASING
GAMMA RAY
CCLU