

Company: Crestone Peak Resources and Operating LLC

Well: Echeverria 2D-2H-D267

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner
Cement Evaluation
Gamma Ray - CCL Log

County: Weld

Field: Wattenberg

Location: NWNW Sec. 2, T2N, R67W

Well: Echeverria 2D-2H-D267

Company: Crestone Peak Resources and Operating LLC

Isolation Scanner

Cement Evaluation

Gamma Ray - CCL Log

Location:		NWNW Sec. 2, T2N, R67W		Elev.:	K.B.	4905.00 ft
Log Measured From:		SHL: 898' FNL & 589' FWL			G.L.	4882.00 ft
Drilling Measured From:		Lat/Long: 40.172032 \ -104.864864			D.F.	4905.00 ft
Permanent Datum:		Ground Level		Elev.:	4882.00 f	
Log Measured From:		Kelly Bushing		23.00 ft		
Drilling Measured From:		Kelly Bushing		above Perm.Datum		
API Serial No.	Section:	Township:	Range:			
05-123-48748	2	2N	67W			

Logging Date	18-May-2019
Run Number	ONE
Depth Driller	12175.00 ft
Schlumberger Depth	7018.00 ft
Bottom Log Interval	7018.00 ft
Top Log Interval	83.00 ft
Casing Fluid Type	Brine
Salinity	
Density	8.4 lbm/gal
Fluid Level	8.00 ft
BIT/CASING/TUBING STRING	
Bit Size	8.50 in
From	2338.00 ft
To	7018.00 ft
Casing/Tubing Size	5.5 in
Weight	20 lbm/ft
Grade	P110
From	0.00 ft
To	7018.00 ft
Max Recorded Temperatures	195.2 degF
Logger on Bottom	18-May-2019
Unit Number	9111
Recorded By	A.Blochowicz/A.Atkind
Witnessed By	Keith Kersisnik

Disclaimer

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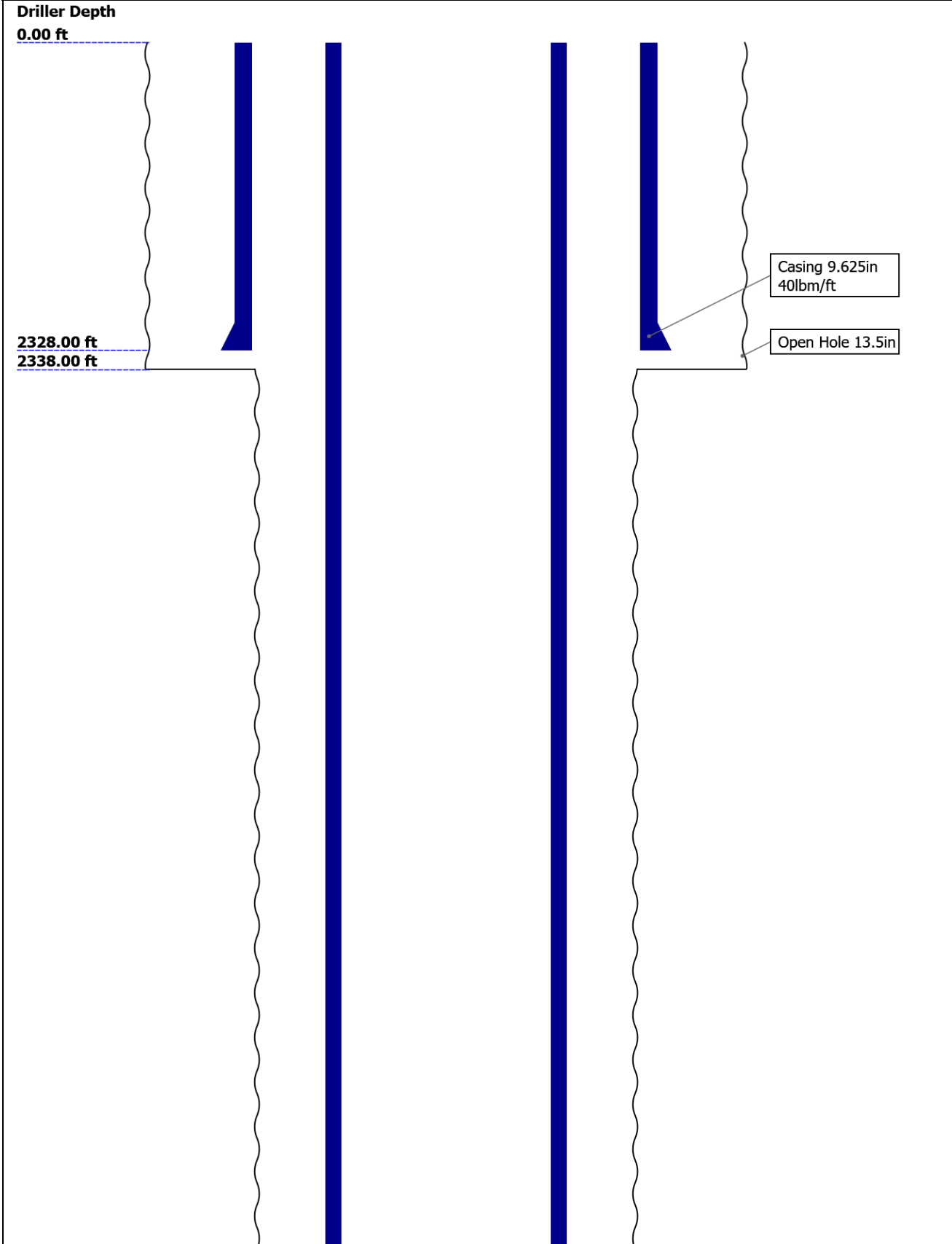
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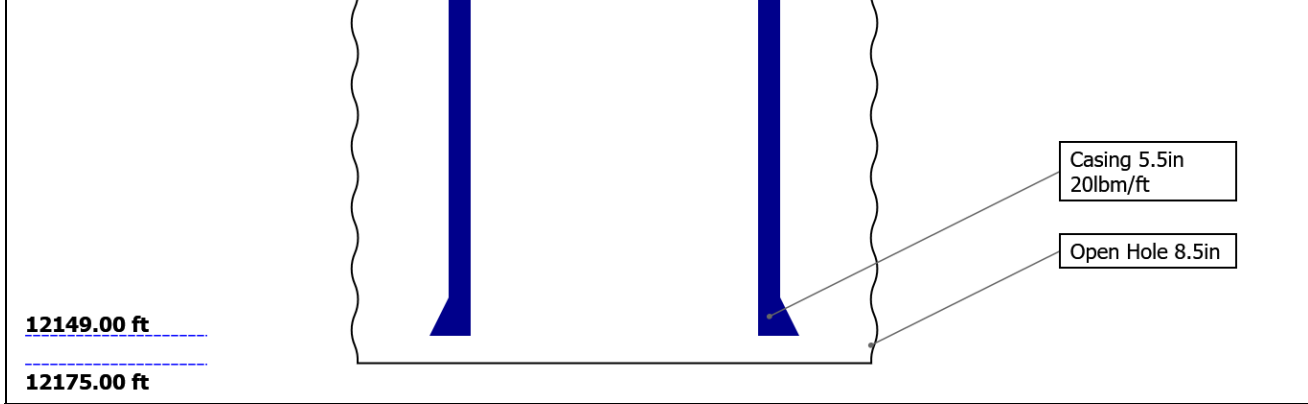
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Well Sketch





12149.00 ft

12175.00 ft

Casing 5.5in
20lbm/ft

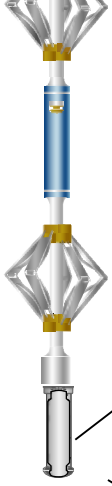
Open Hole 8.5in

Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	13.5	8.5				
Top Driller (ft)	0	2338				
Top Logger (ft)	0	2338				
Bottom Driller (ft)	2338	12175				
Bottom Logger (ft)	2338	7018				
Casing						
Size (in)	9.625	5.5				
Weight (lbm/ft)	40	20				
Inner Diameter (in)	8.835	4.778				
Grade	J55	P110				
Top Driller (ft)	0	0				
Top Logger (ft)	0	0				
Bottom Driller (ft)	2328	12149				
Bottom Logger (ft)	2328	7018				

Remarks and Equipment Summary

ONE: Toolstring				ONE: Remarks	
<div><div><div>Equip nameLength</div><div>LEH-QT28.62</div><div>LEH-QT</div></div><div><div>EDTC-B:825.14</div><div>324</div><div>EDTH-B:8101</div><div>EDTG-A:77301</div><div>EDTC-B:8324</div></div><div><div>AH-184:318.64</div><div>763</div></div><div><div>USIT-E:9816.64</div><div>1</div><div>ECH-MFA:1923</div><div>USAC-A:981</div><div>USIS-A:1739</div><div>USSC-B</div><div>IBCS-A:80</div></div></div> <div><div><div>CTEM21.64</div><div>ACCZ0.00</div><div>HV0.00</div><div>Gamma19.77</div><div>Ray</div><div>TelStatu18.64</div><div>s</div></div></div>	Thank you for choosing Schlumberger!				
	Toolstring run as per toolsketch and client logging program.				
	Two 5" gemcsos and in-lines centralizers with small hole kit and booster kit for centralization.				
	Log run under 0 PSI				
	Annular Fluid: 10.5 ppg OMB Spacer: 11 ppg Lead Cement: 12.5 ppg Tail Cement: 13.5 ppg				

<div> <div> FAR-SENS OR:1131 IBC-TX NEAR-SEN SOR:2115 IBC-TX USI-SENS OR:4690 IBC-TX EMITTER- SENSOR:4 515 IBC-TX </div>  <div> USI Sensor Head Tension 0.84 TOOL_ZERO </div> </div> <p> Lengths are in ft Maximum Outer Diameter = 5.000 in Line: Sensor Location, Value: Gating Offset All measurements are relative to TOOL_ZERO </p>		
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Depth Summary			
	ONE		
Depth Measuring Device			
Type	IDW-JA		
Serial Number	6241		
Calibration Date	30-Apr-2019		
Calibrator Serial Number	IDWC-C-57		
Calibration Cable Type	7-46 PXS		
Wheel Correction 1	-1		
Wheel Correction 2	-2		
Tension Device			
Type	CMTD-B/A		
Serial Number	161		
Calibration Date	13-May-2019		
Calibrator Serial Number	1148		
Number of Calibration Points	10		
Calibration Root Mean Square Error	6		
Calibration Peak Error	10		
Logging Cable			
Type	7-46P-XS		
Serial Number	U712020		
Length	23245.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane		
ONE:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well	All Schlumberger depth control policies followed. IDW used as primary depth reference. Z-chart used as secondary depth reference.	
Rig Up Length At Surface			
Rig Up Length At Bottom			
Rig Up Length Correction			
Stretch Correction			
Tool Zero Check At Surface			

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Log[4]:Up	7020.32	70.43

Fluid Velocity = "Automatic".
CFVL equals DFSL channel

Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)
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Mud Impedance = "FreePipe Norm."
Free Pipe normalization zone is : 32.71m(107.31ft) to 37.28m(122.31ft)
MUD_N_FRP = 1.18
DFD = 1.01g/cm3(8.40lbm/gal)
CZMD median computed in free pipe normalization interval = 1.66 MRayl

Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
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ONE

IBC SLG

Software Version

Acquisition System	Version
Maxwell 2019	9.0.106845.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	70.43 ft	7020.32 ft	18-May-2019 11:04:23 AM	18-May-2019 12:46:32 PM	ON	4.94 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources and Operating LLC Well:Echeverria 2D-2H-D267 ONE: Log[4]:Up:S010
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Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-May-2019 16:18:00

USIT Processing Flags (UFLG[0]) USIT-E

1 - UFLG 1 Value within [0.0 - 1.5] - :

2 - UFLG 2 Value within [1.5 - 2.5] - :

3 - UFLG 3 Value within [2.5 - 3.5] - :

4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :

5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

UTIM Error

Pulse Origin Not Detected

WINLEN Error

Casing Thickness Error

Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

Casing Collar Locator Ultrasonic (CCLU) USIT-E

-20 in 20

Amplitude of Eccentering (ECCE) USIT-E

0 in 0.5

Motor Revolution Speed (RSAV) USIT-E

ULBRU

Orientation: Top of Hole

Absent 1.500 3.500

Explicit Normalization

USIT - USIT

Processing Flags (UFLG) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E

1 5

Gamma Ray (ECGR_EDTC) EDTC-B

ULBRU

Orientation: Top of Hole

Absent -5.200 -3.600 -2.000 -0.400

Explicit Normalization

USIT - Amplitude of Wave (AWBK) USIT-F

Acoustic Impedance Minimum (AIMN) USIT-E

-1 Mrayl 9

Acoustic Impedance Average (AIAV) USIT-E

-1 Mrayl 9

Acoustic Impedance Maximum (AIMX) USIT-E

ULBRU

Orientation: Top of Hole

Absent 1.500 3.500 5.500 7.500

Custom Normalization

USIT - Acoustic Impedance (AIRK) USIT-F

Minimum Flexural Attenuation (U-USIT_UFAN) USIT-E

0 dB/m 150

Average Flexural Attenuation (U-USIT_UFAV) USIT-E

0 dB/m 150

Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E

ULBRU

Orientation: Top of Hole

Absent 42.000 66.000 90.000 114.000

Custom Normalization

USIT - Flexural Attenuation (UFAK) USIT-F

ULBRU

Orientation: Top of Hole

Absent 0.500 1.500 2.500 3.500

Explicit Normalization

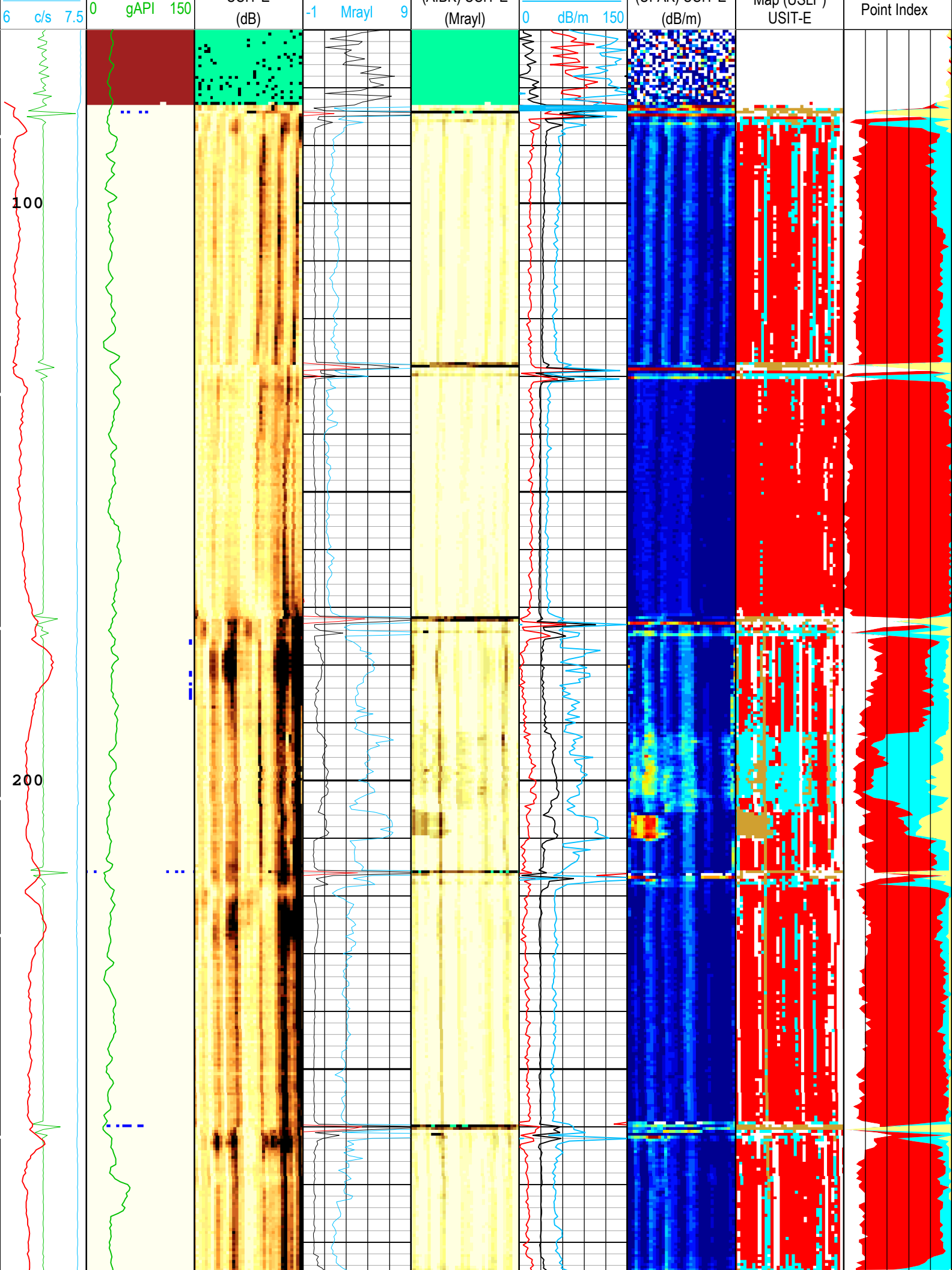
USIT - Solid Liquid Gas Sorted Color Map (USLP)

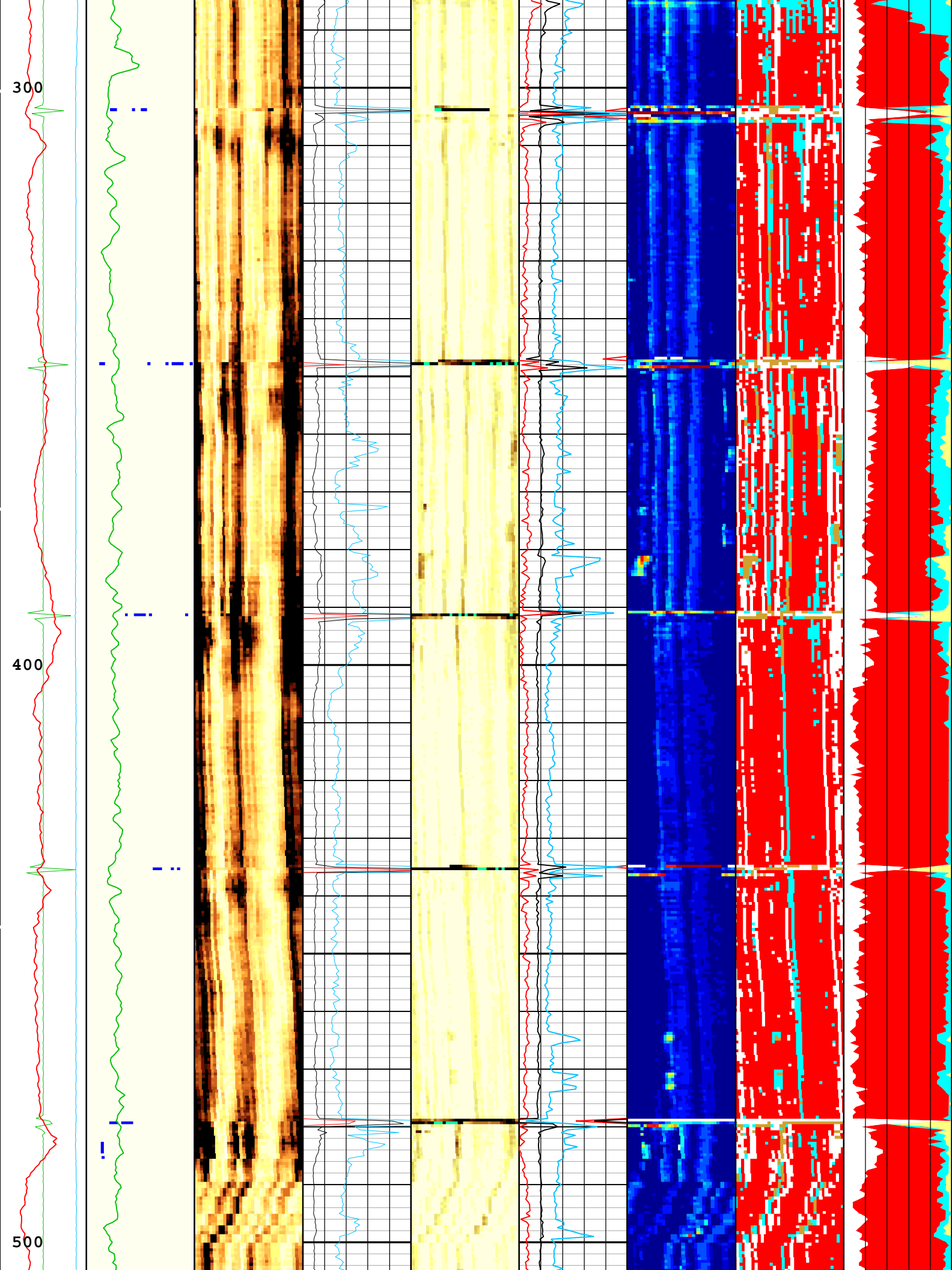
SLG Solid Index

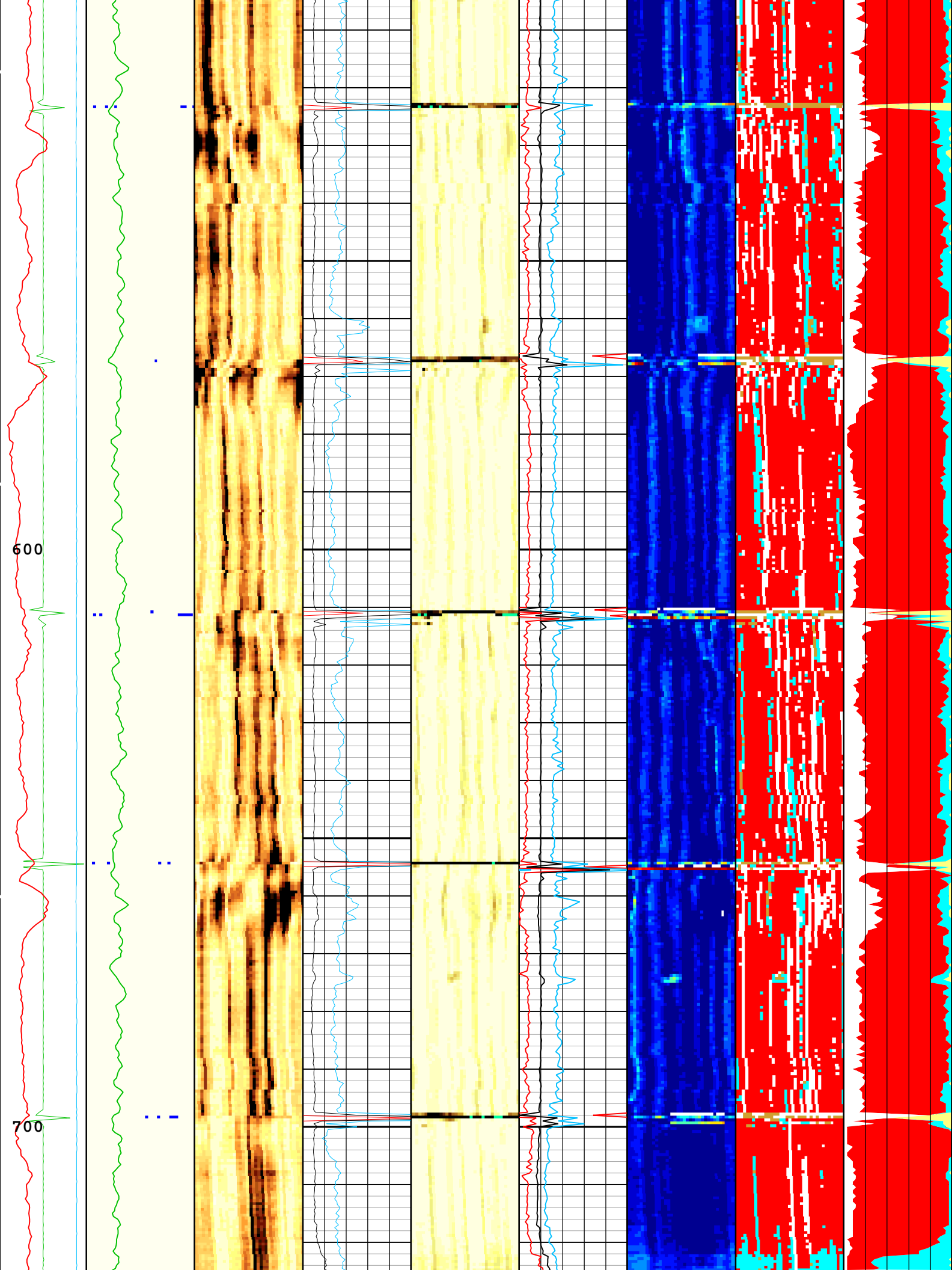
SLG Liquid Index

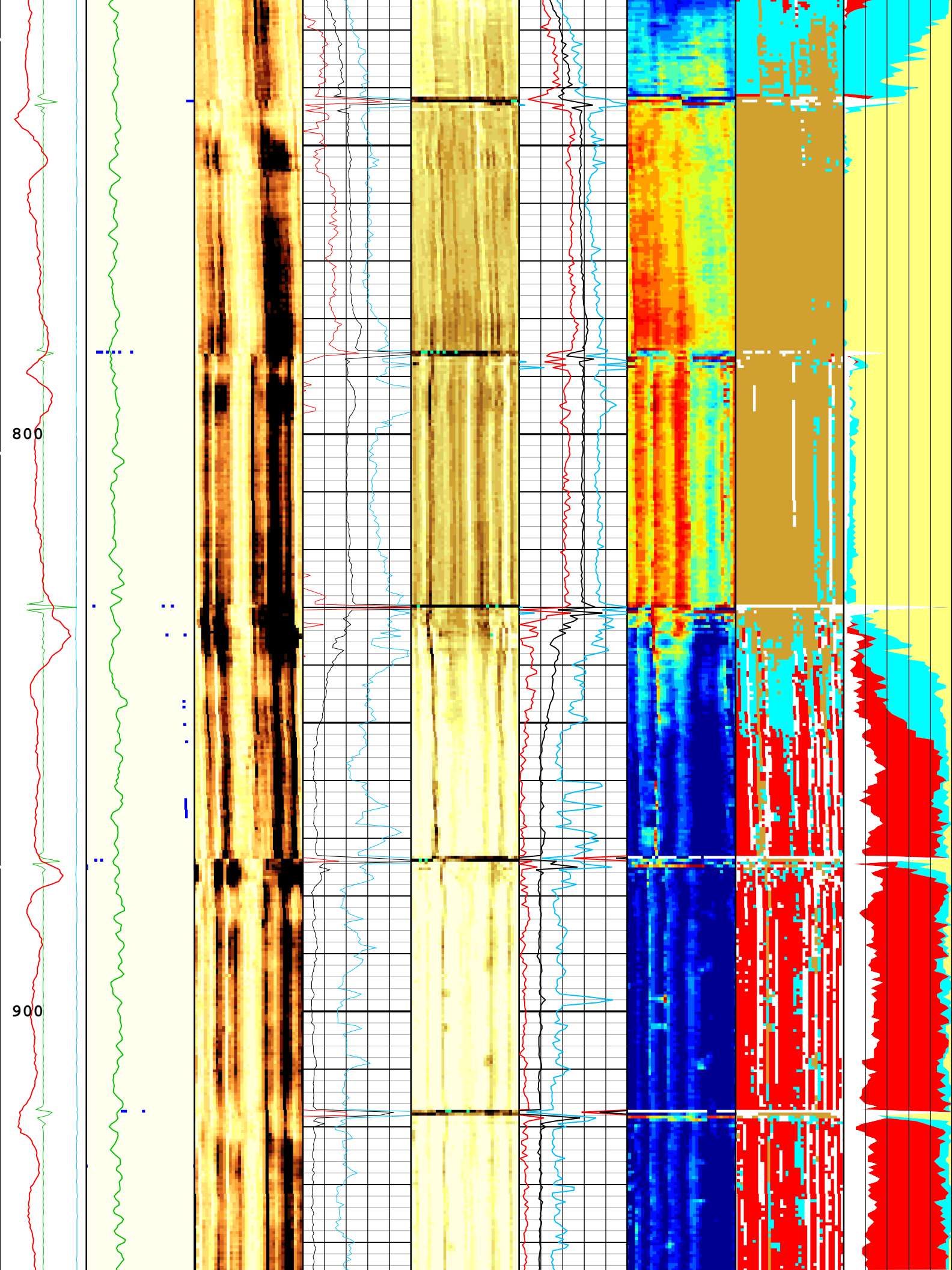
SLG Gas Index

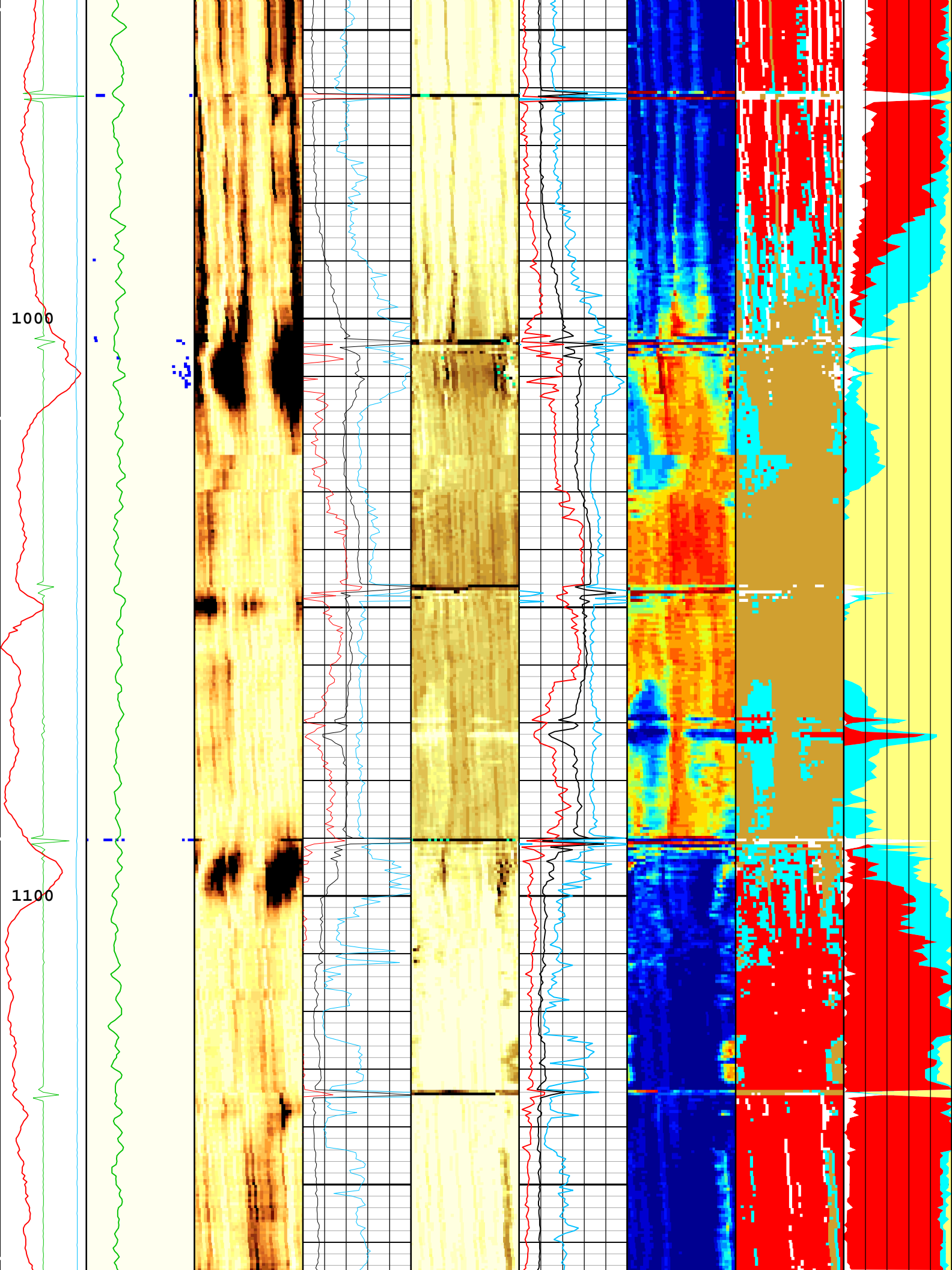
SLG White

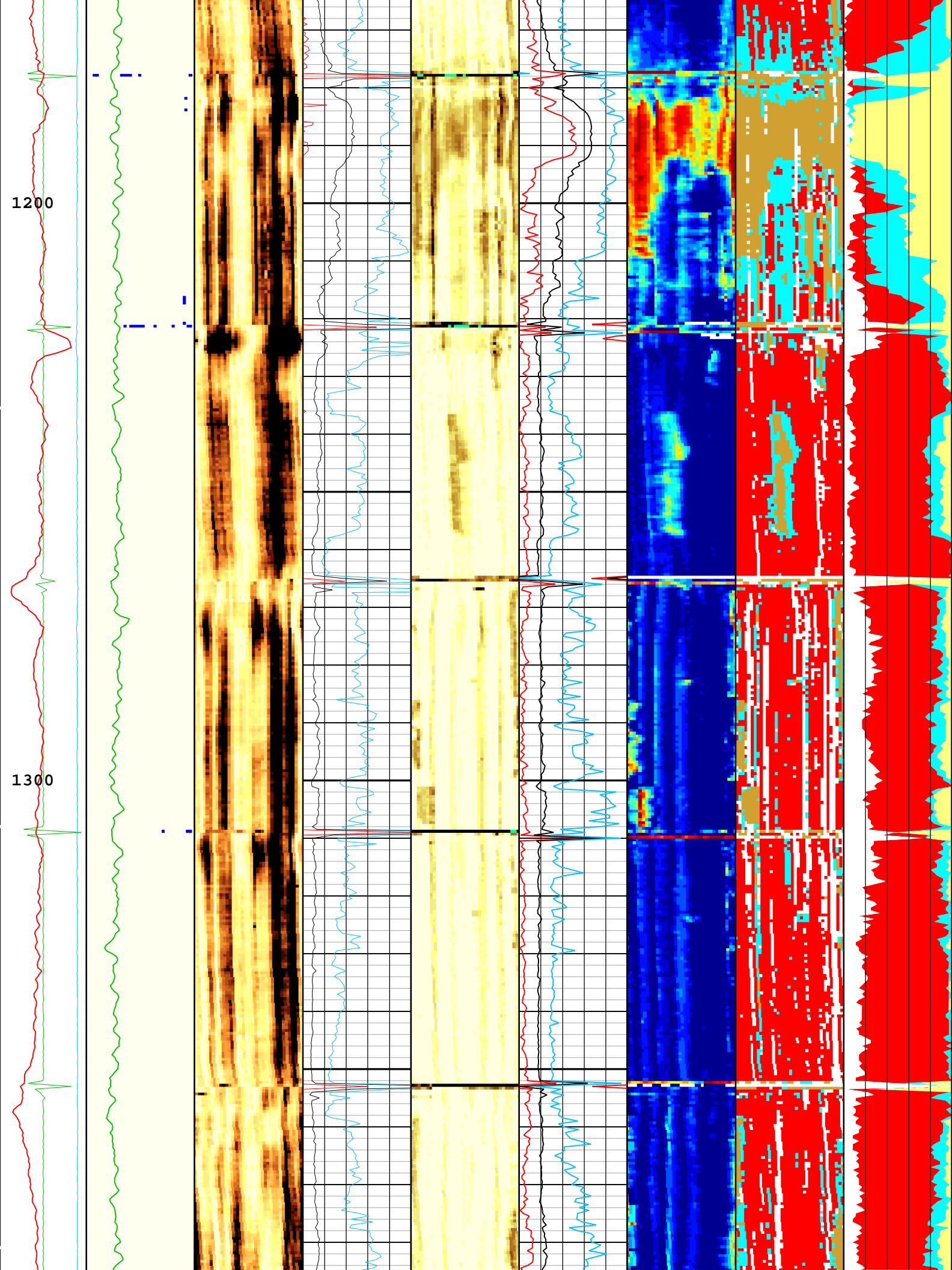


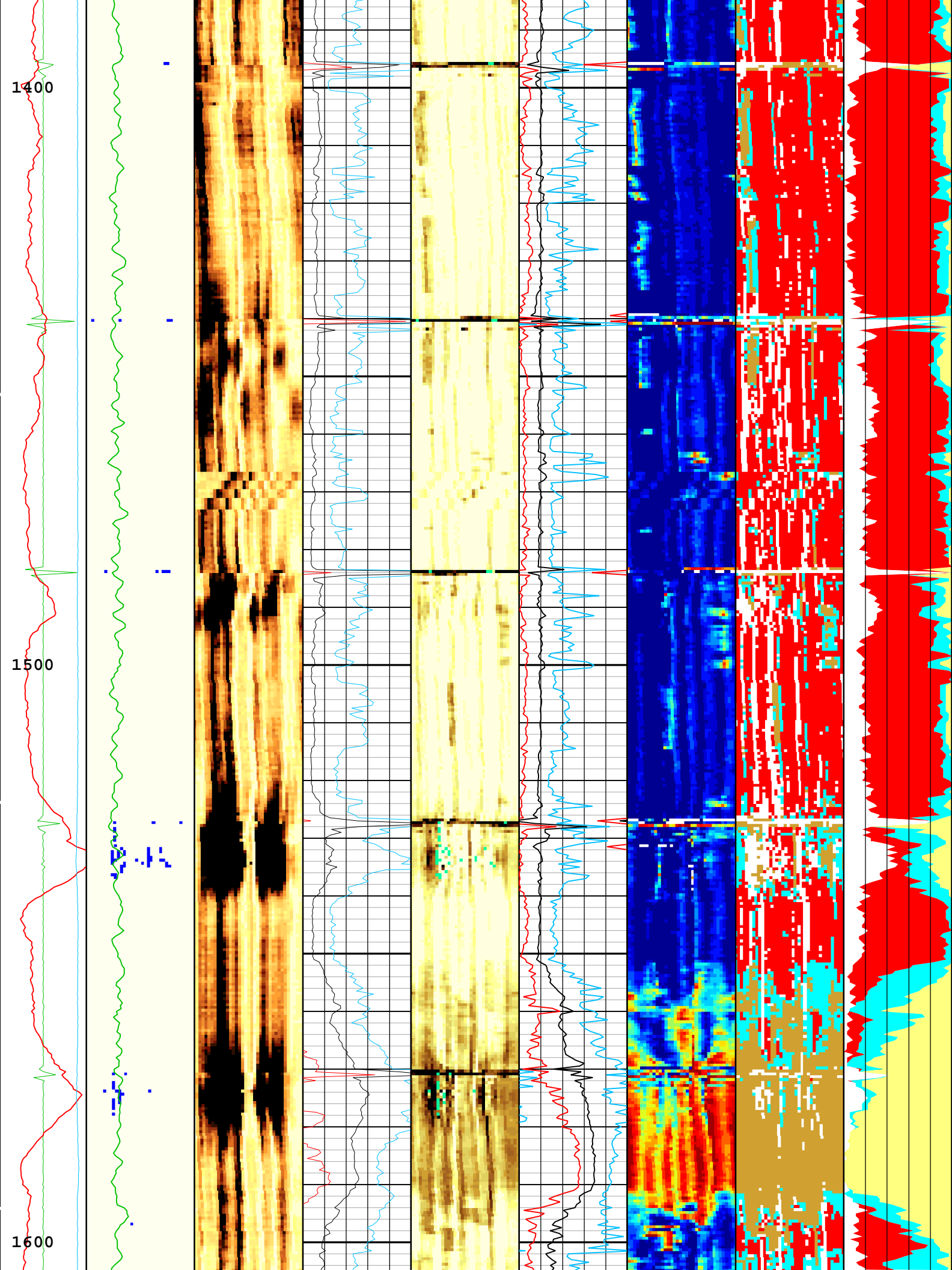


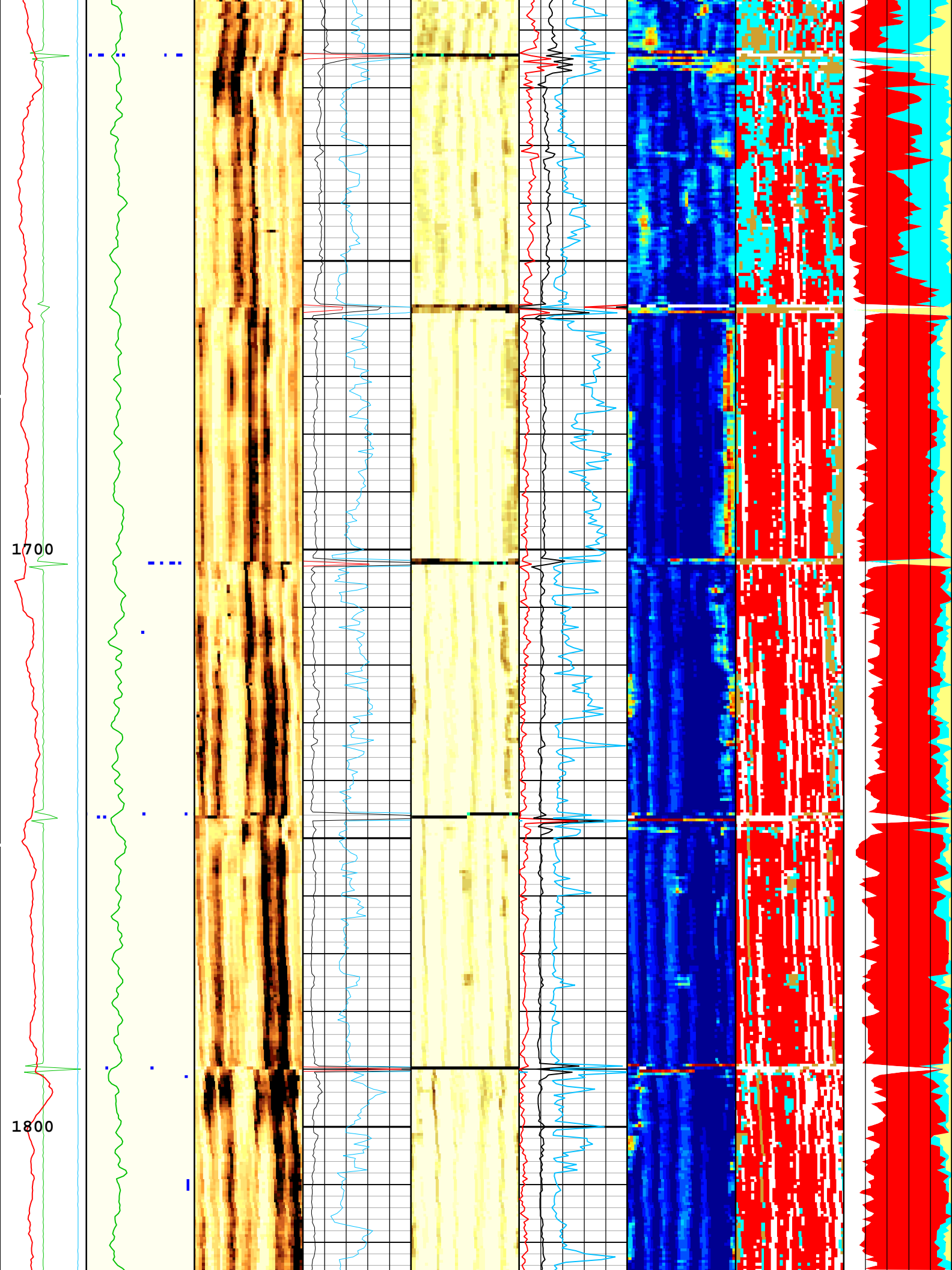


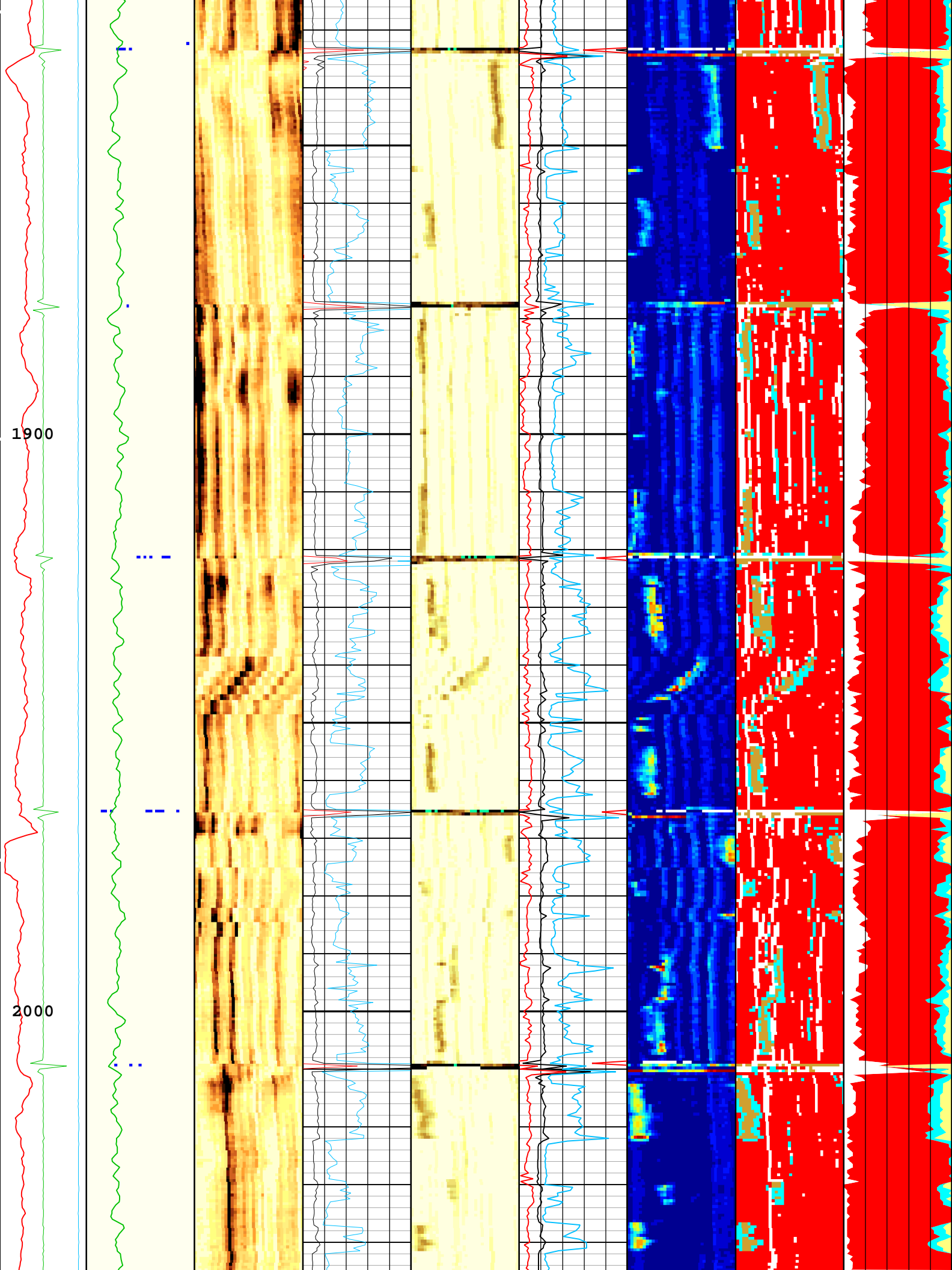


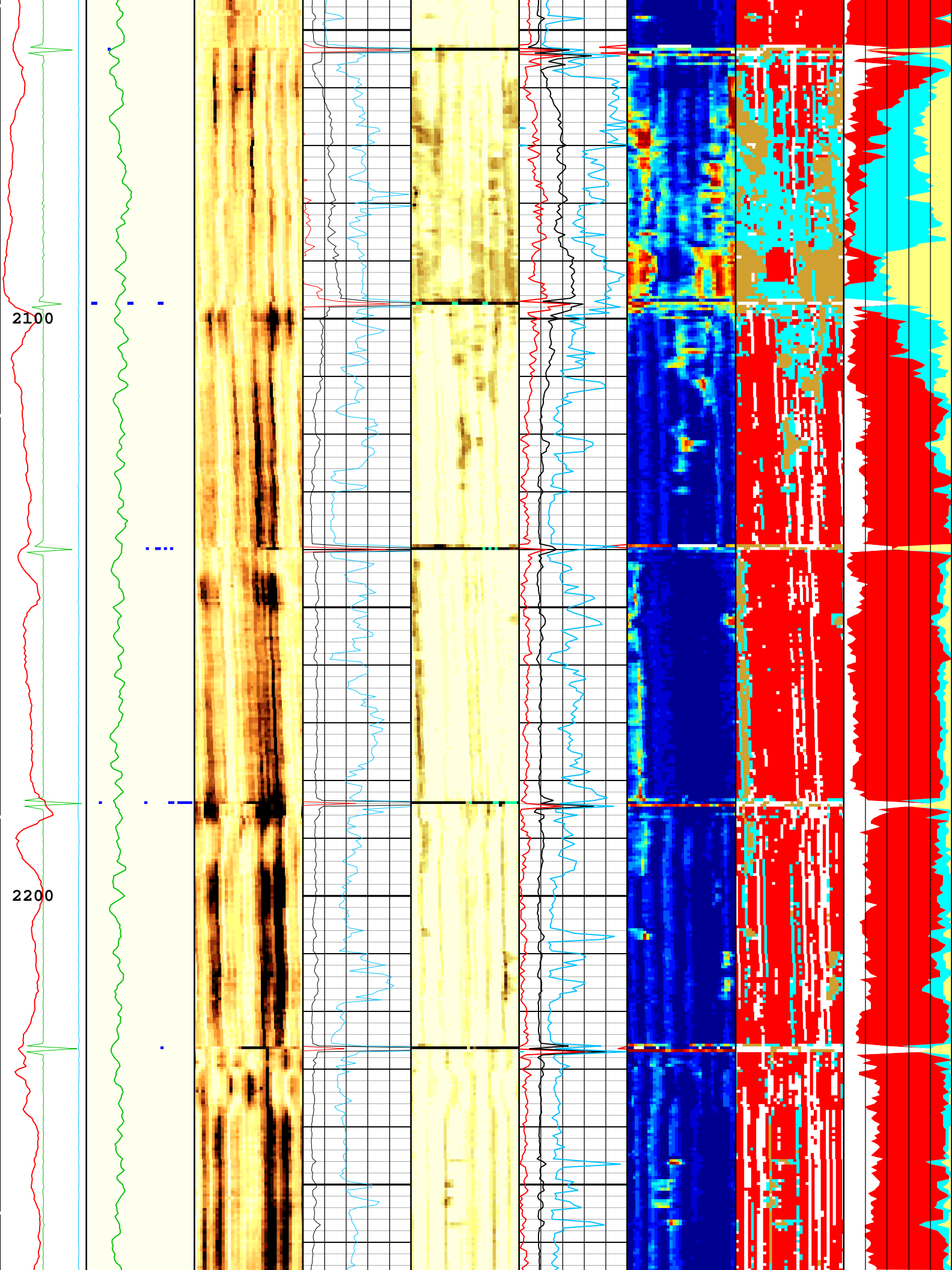


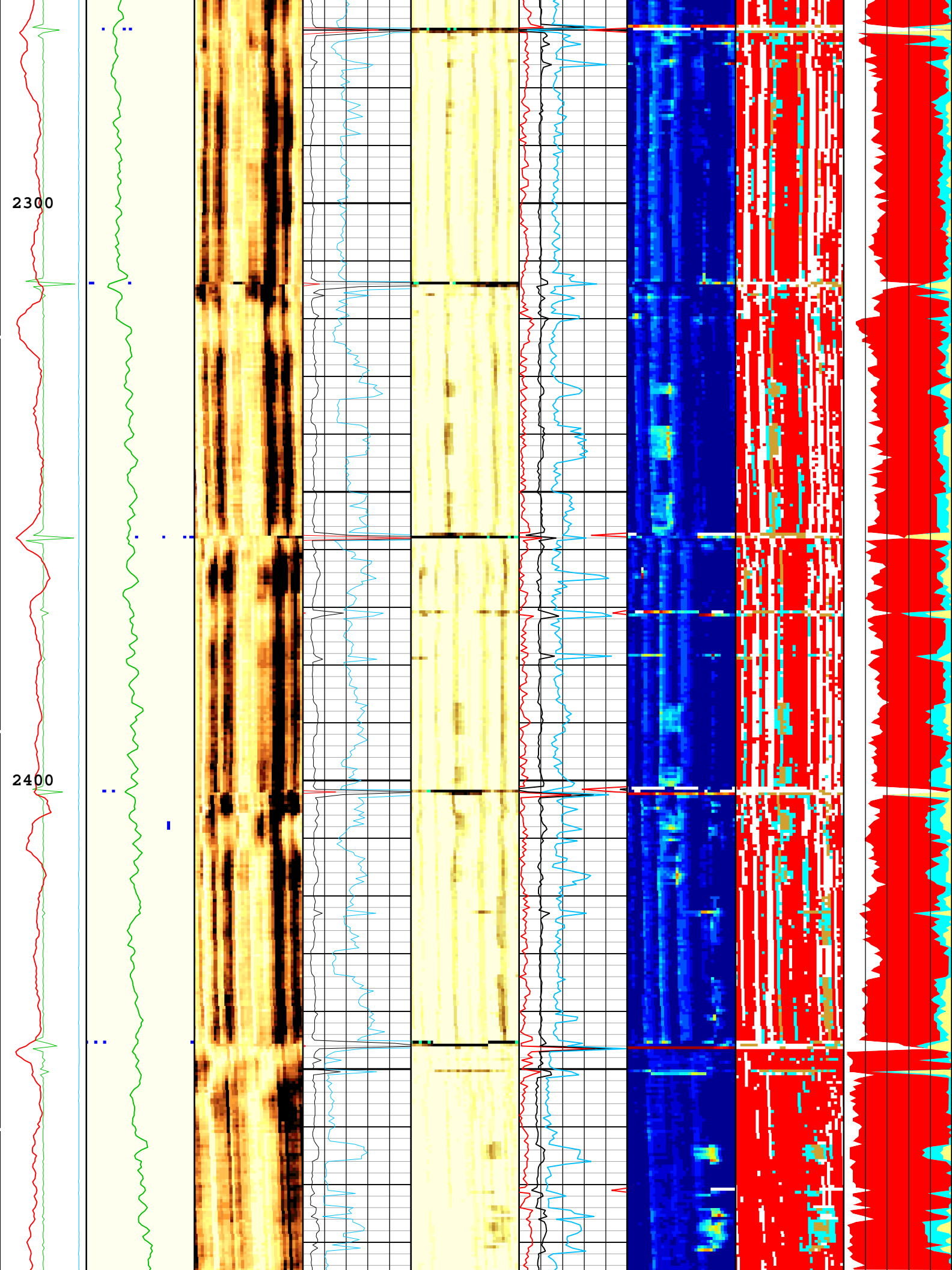


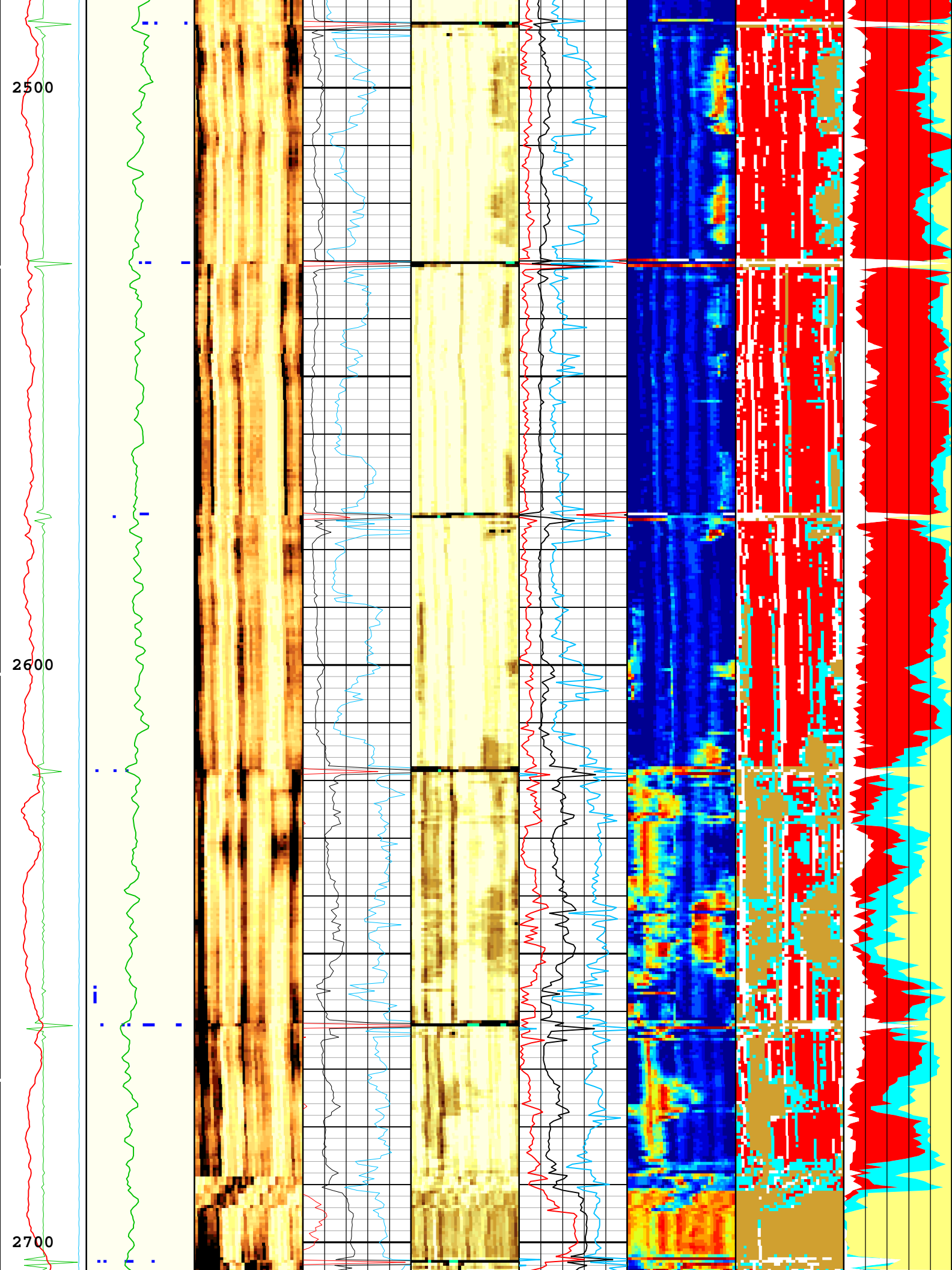


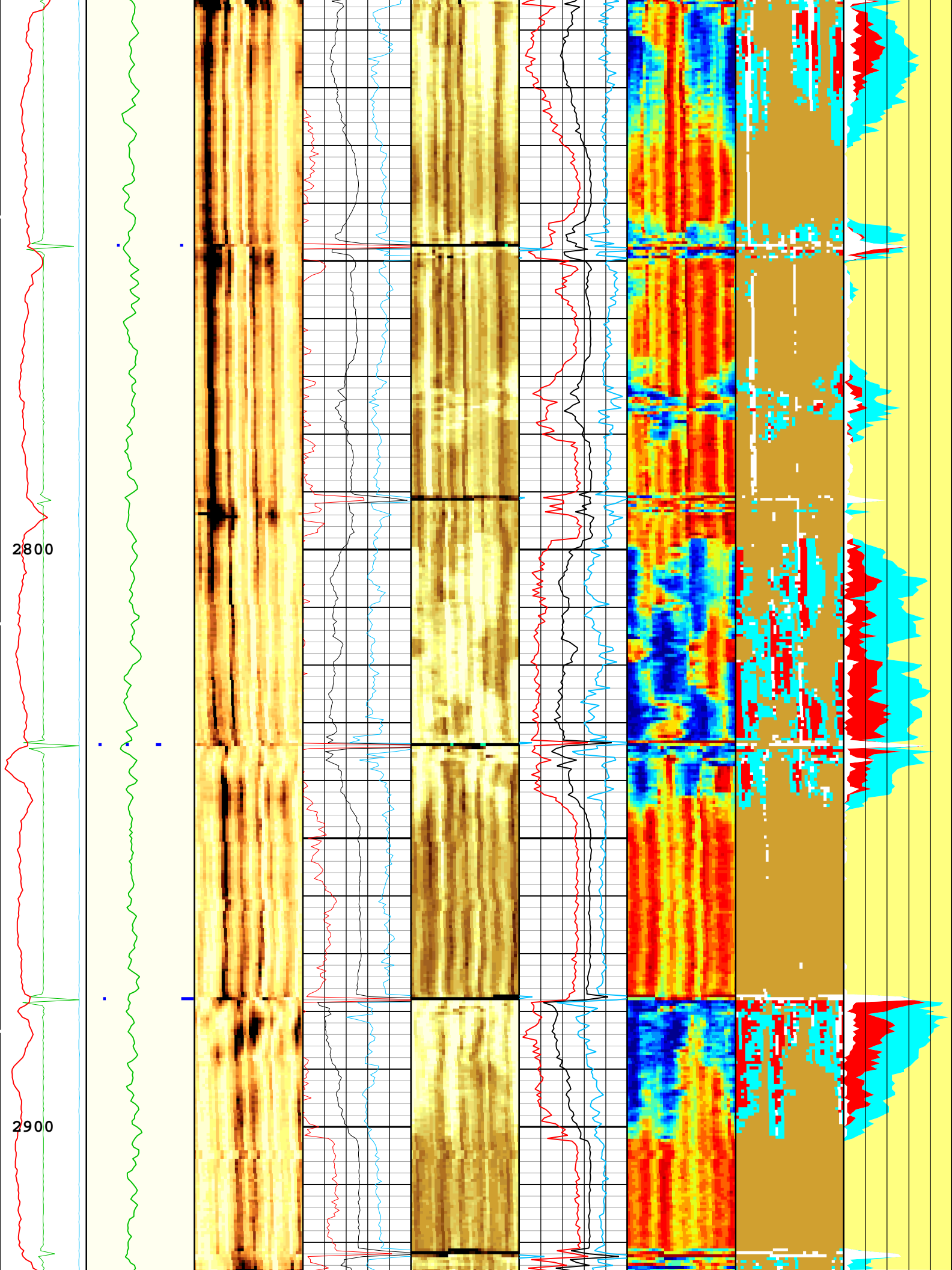


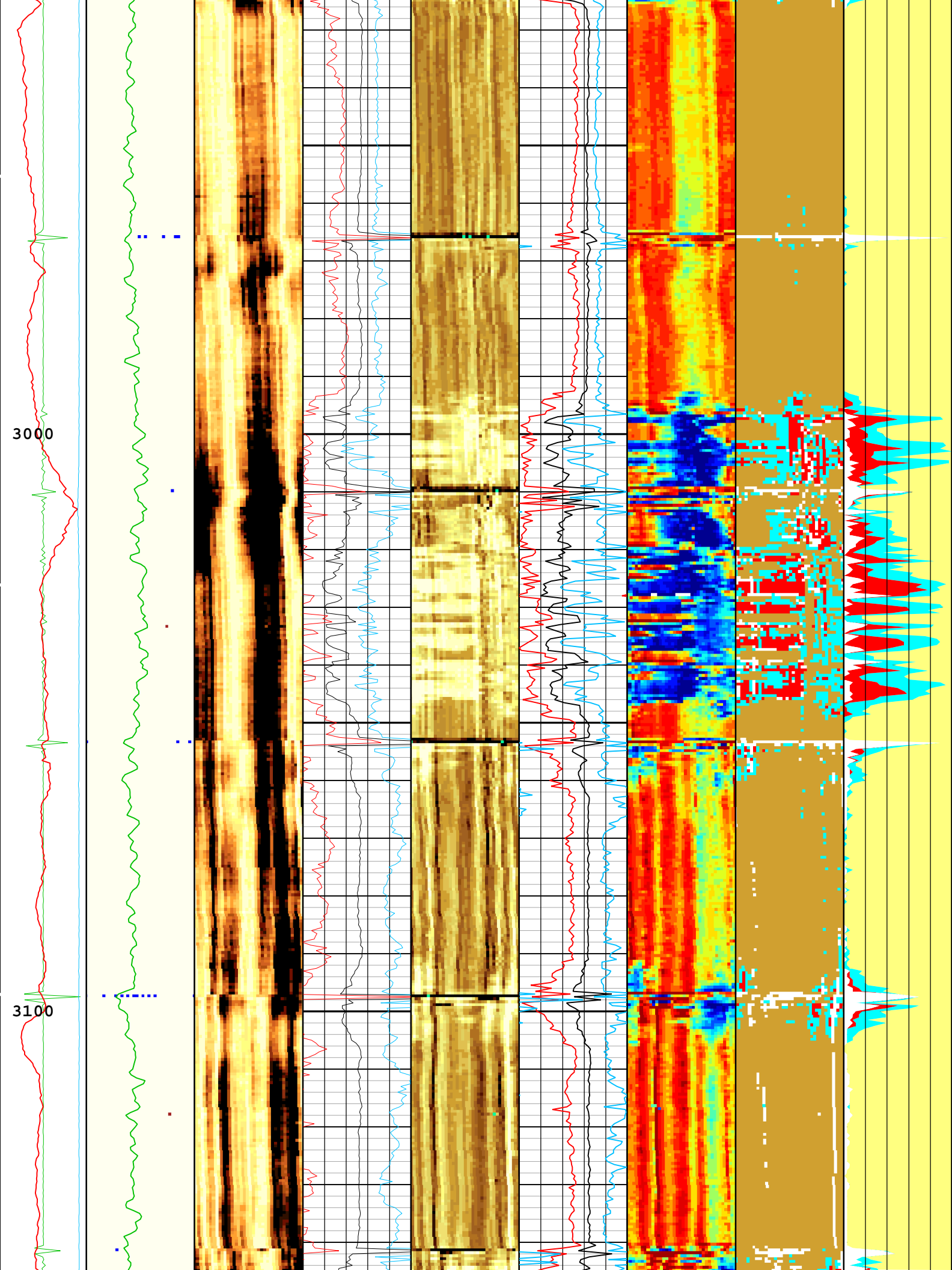


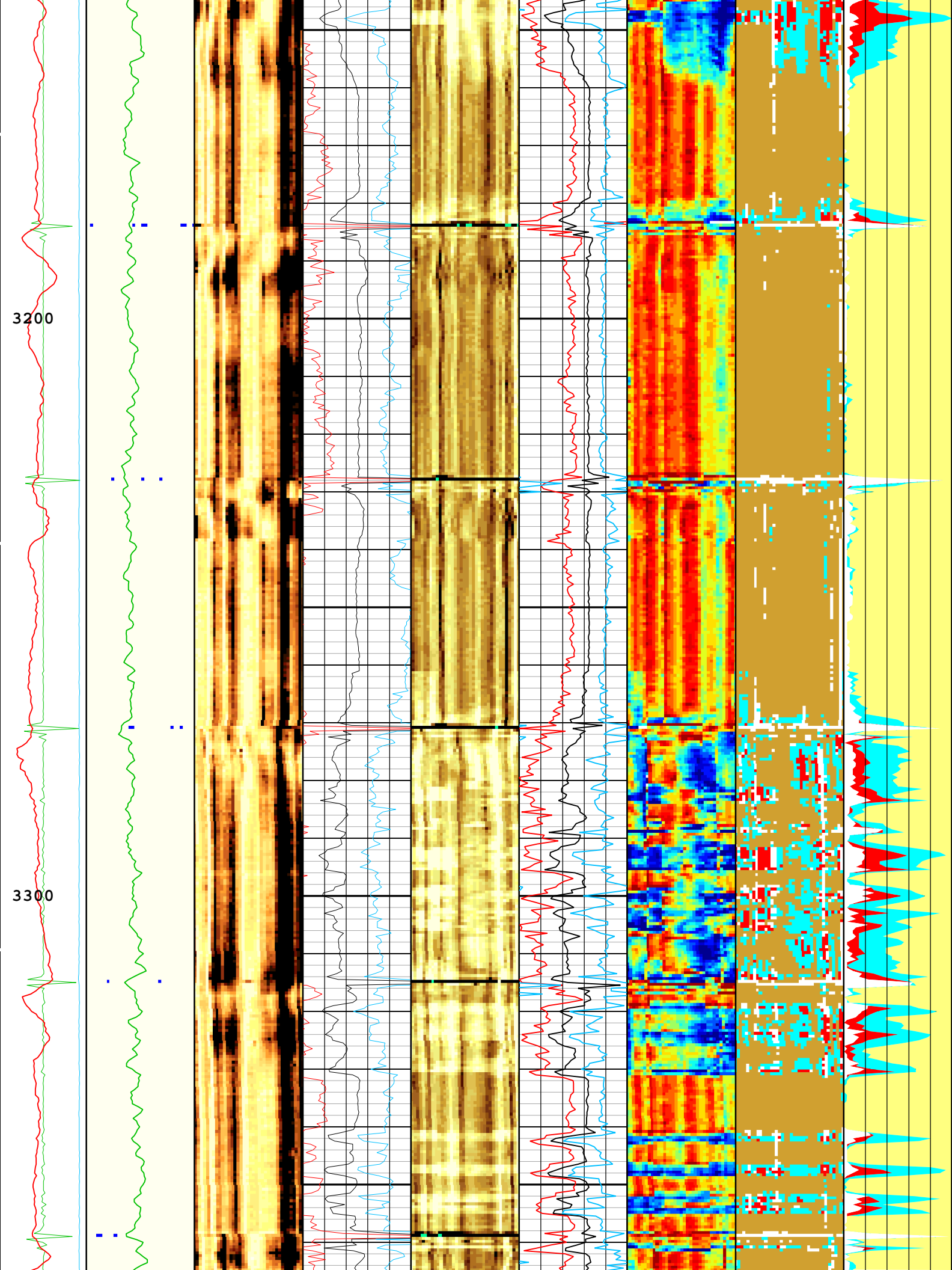


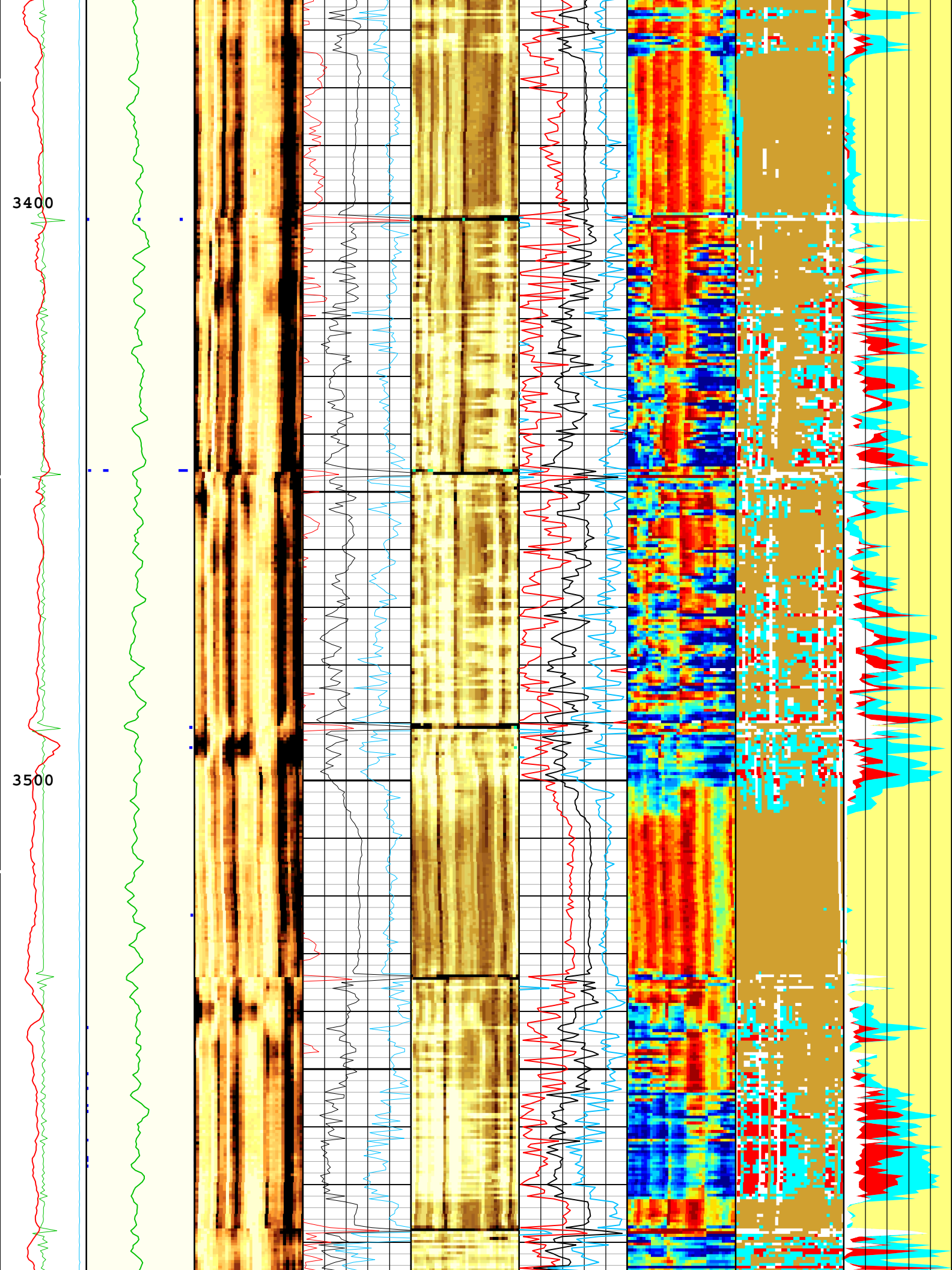


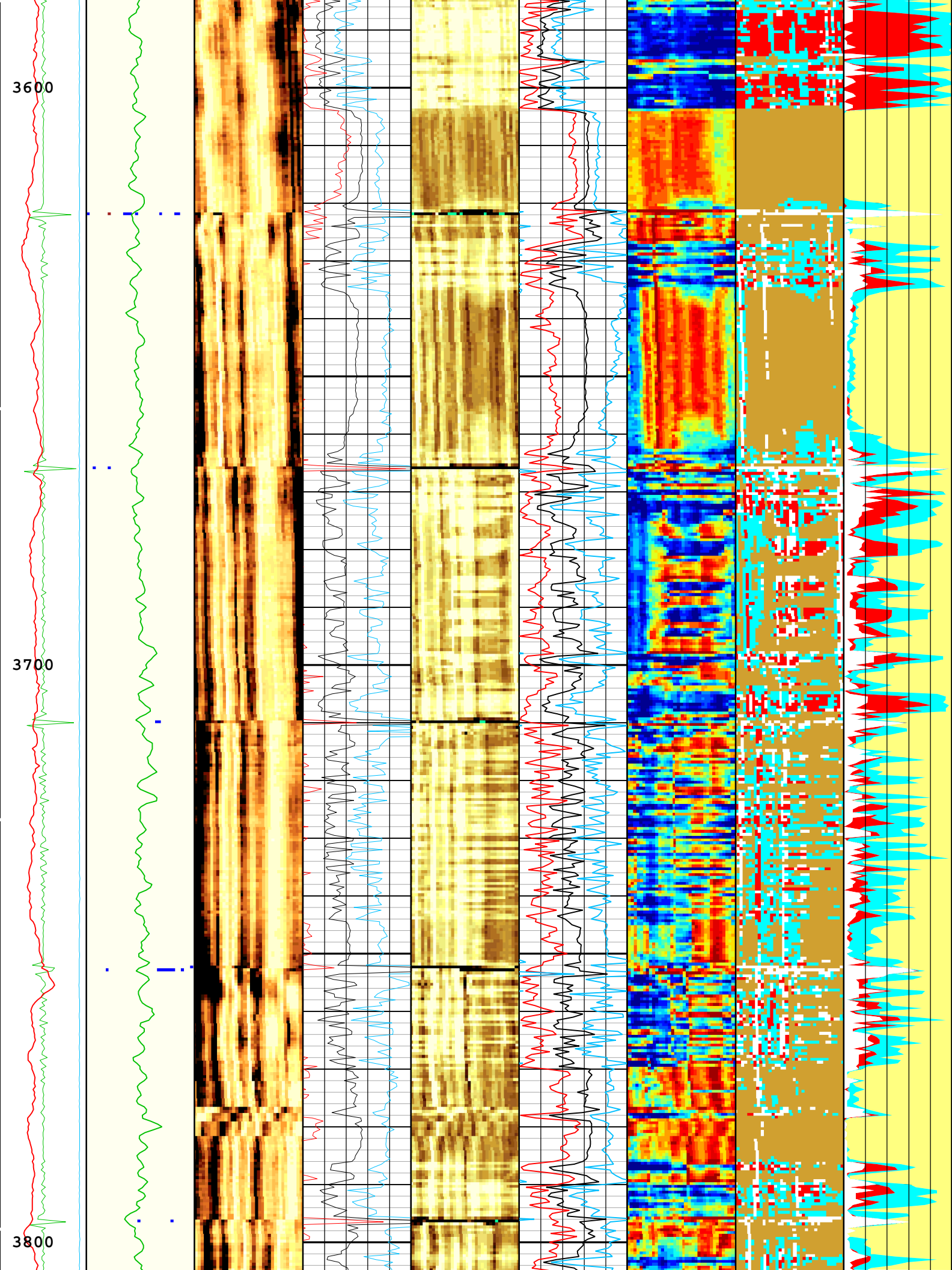


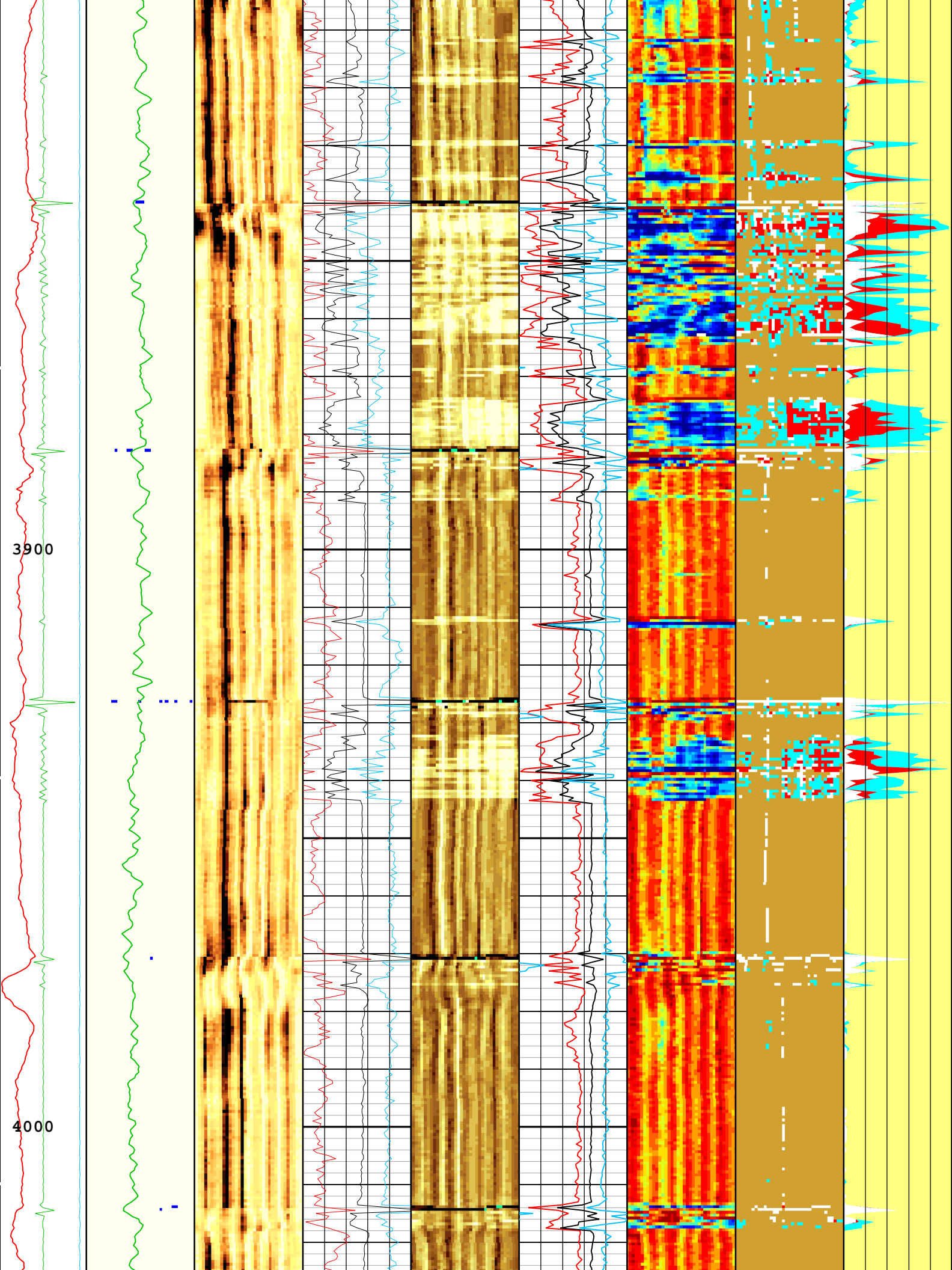


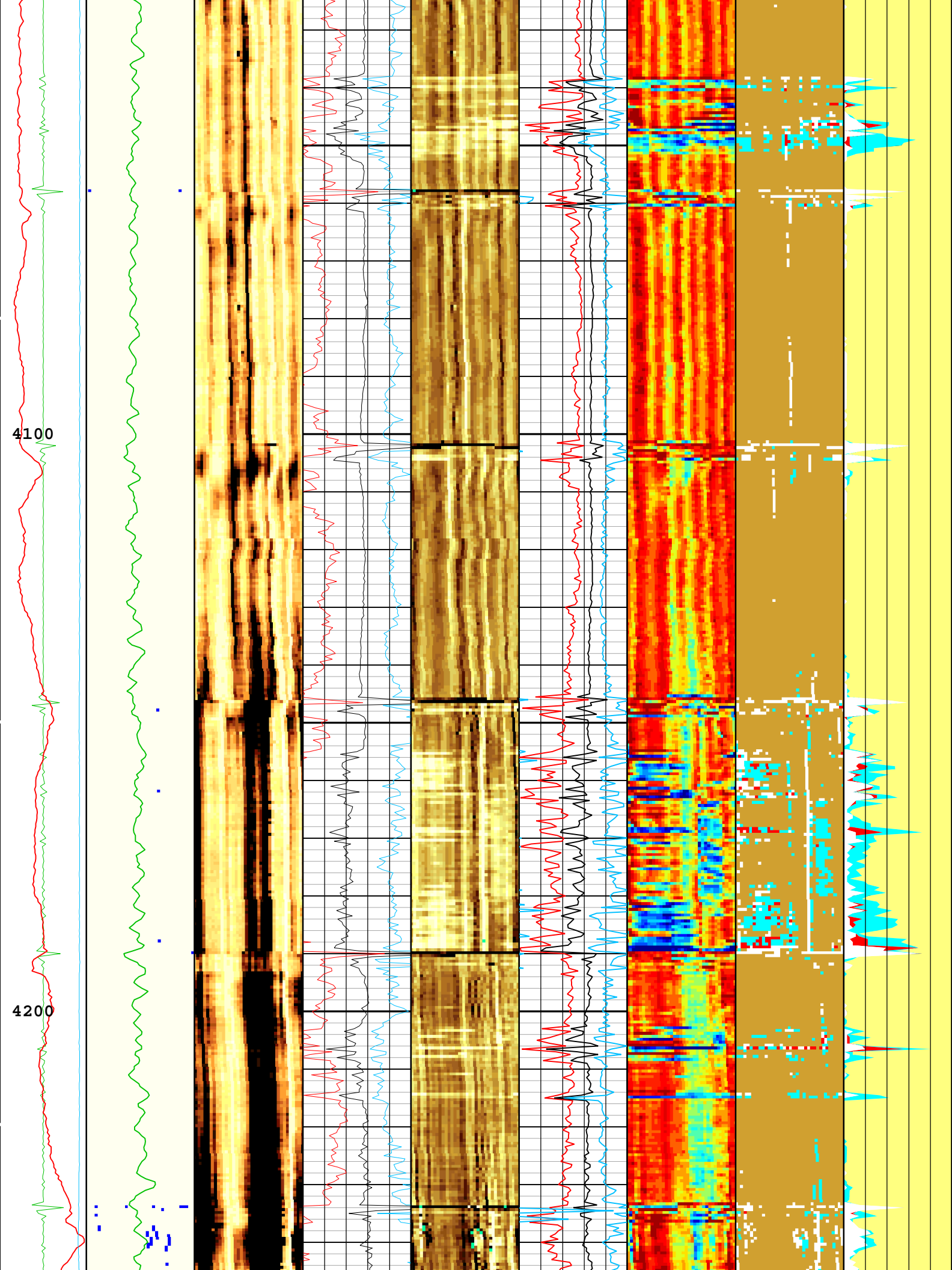


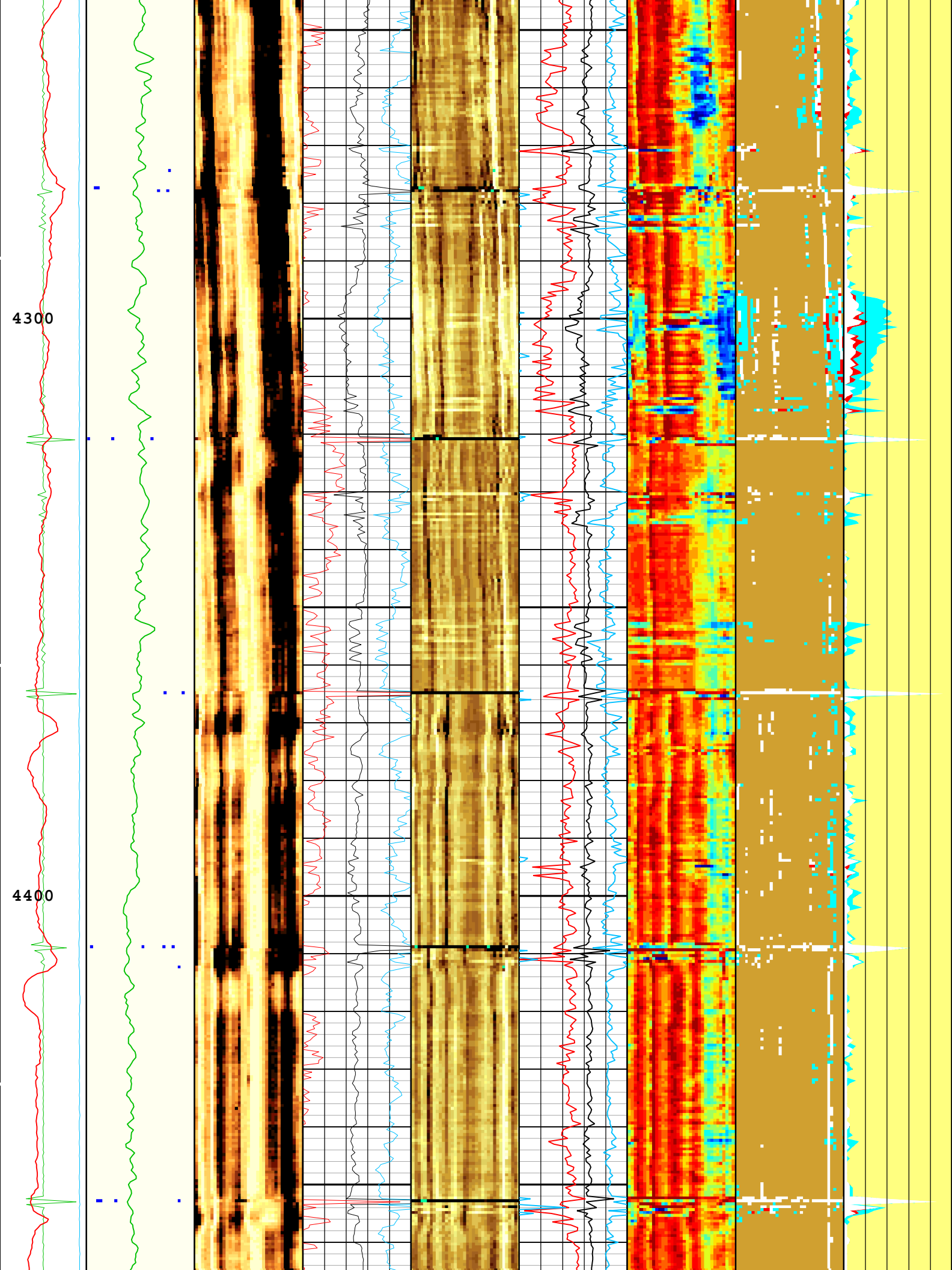


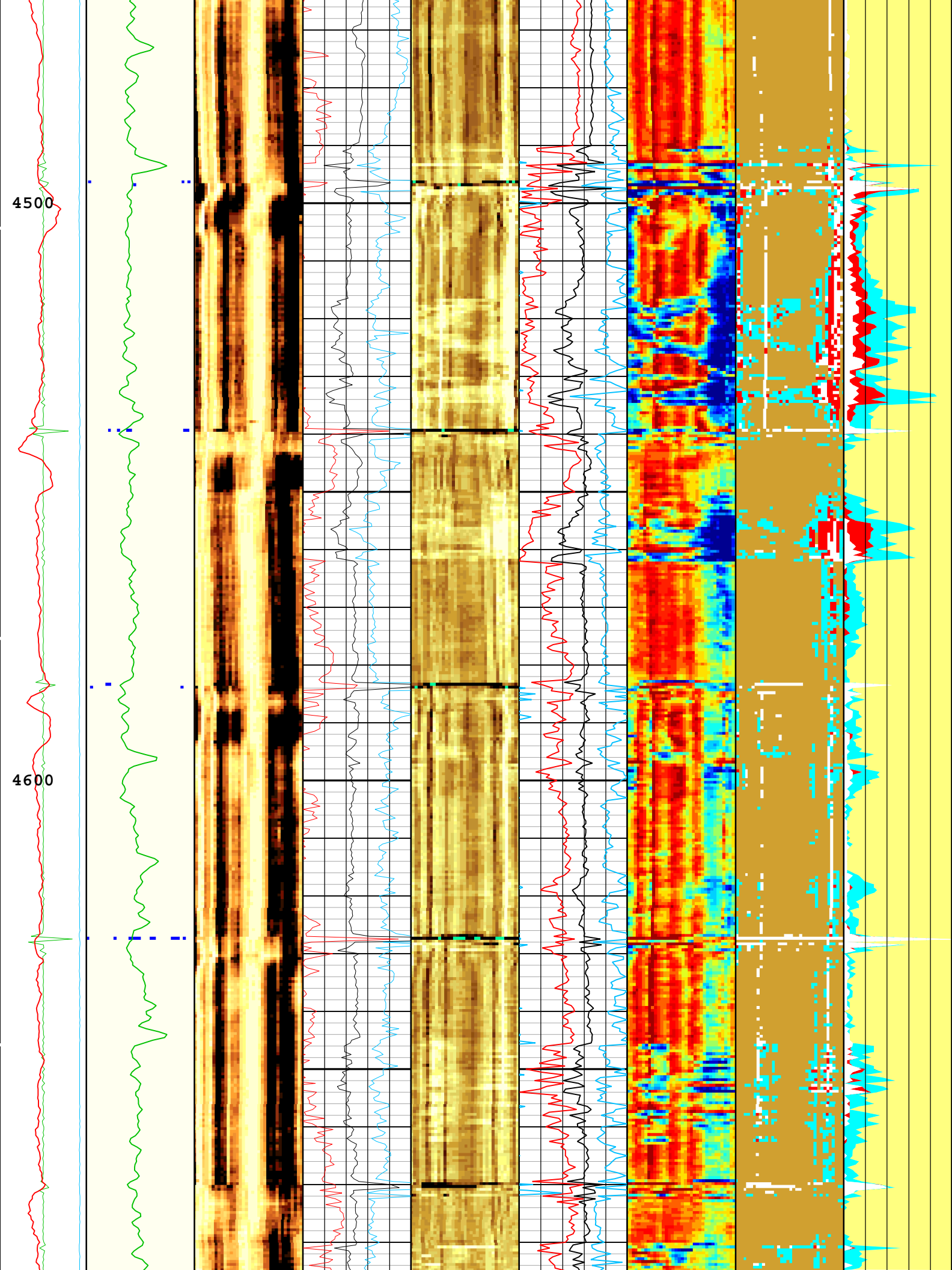


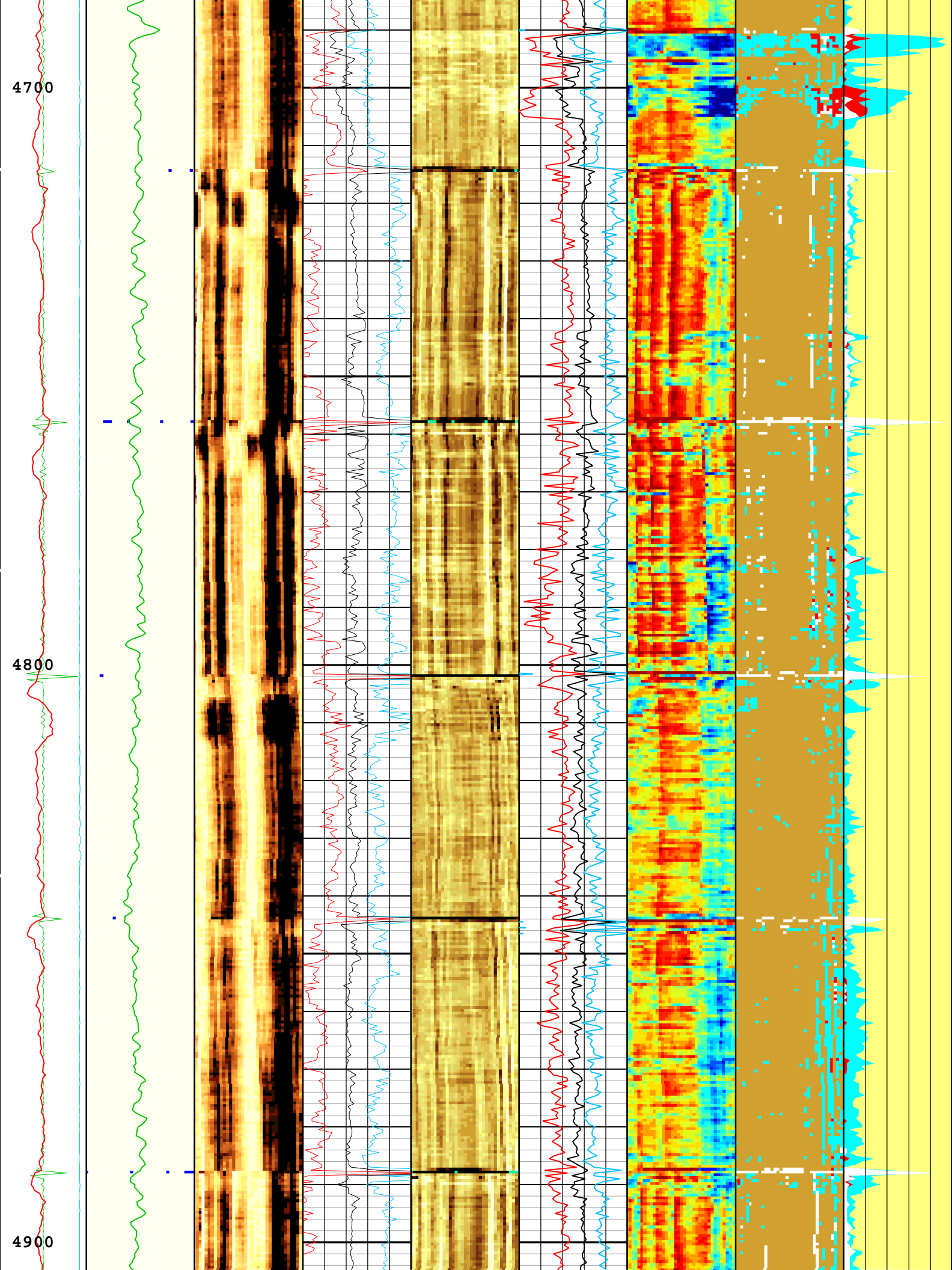


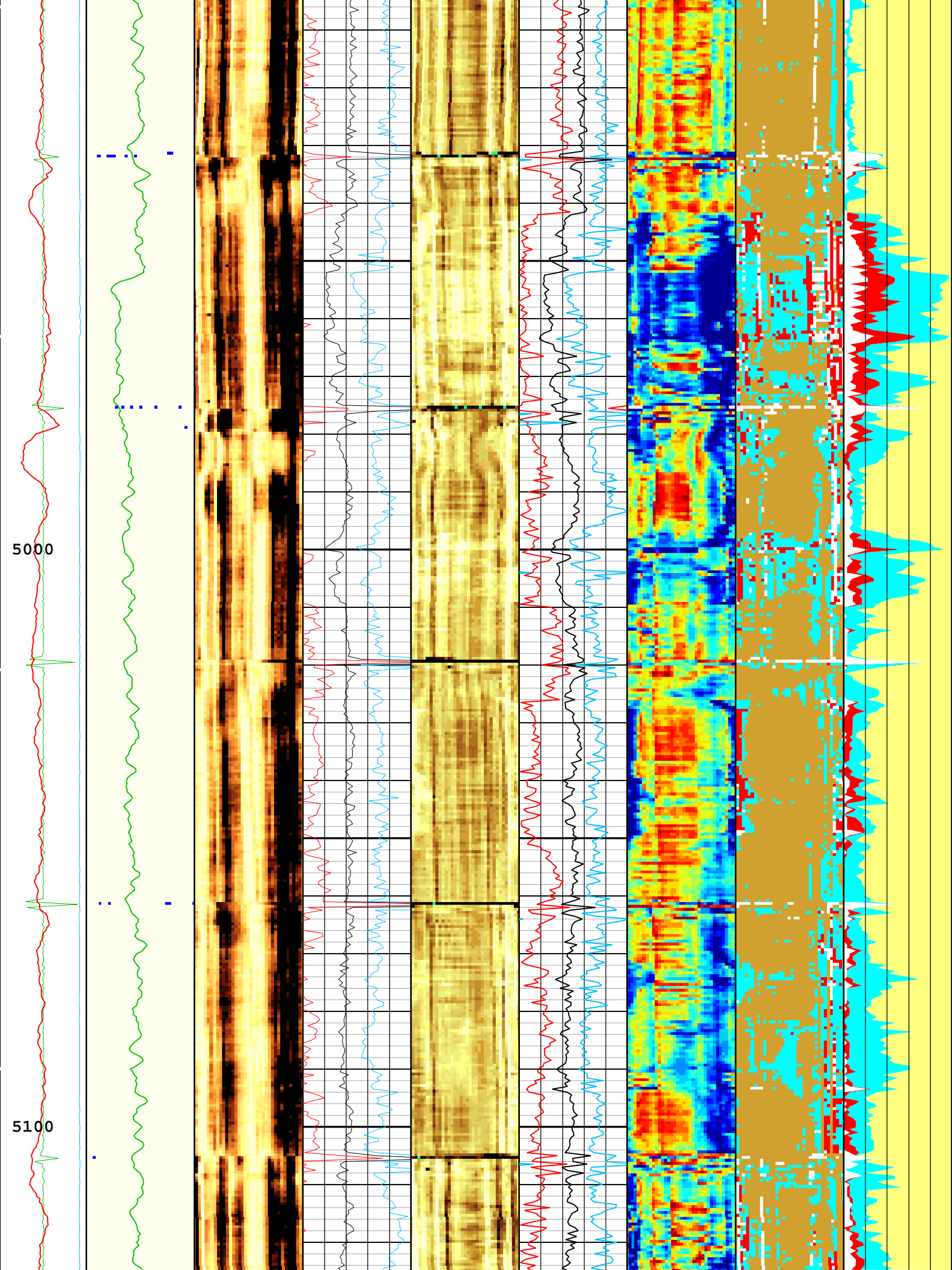


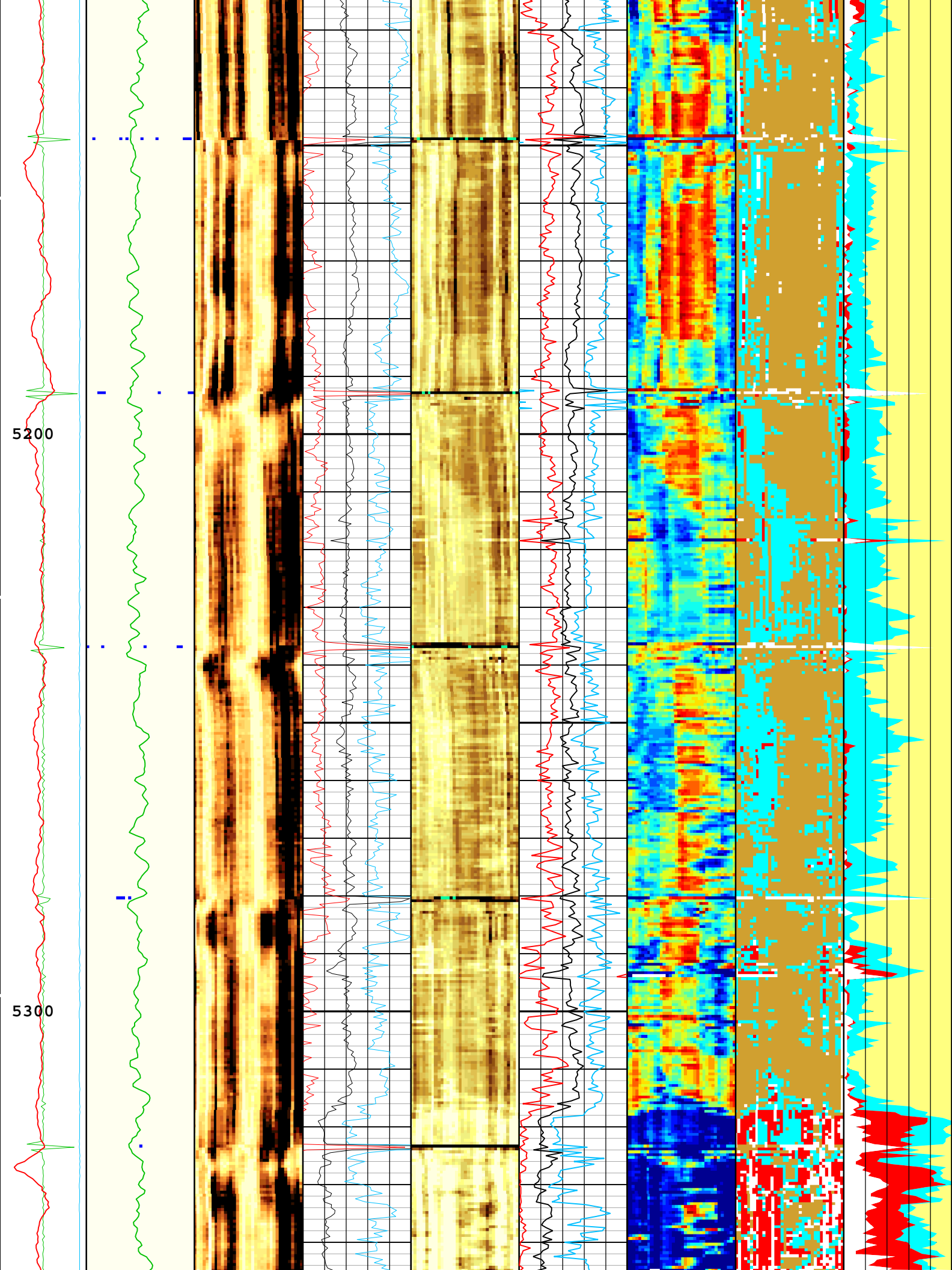


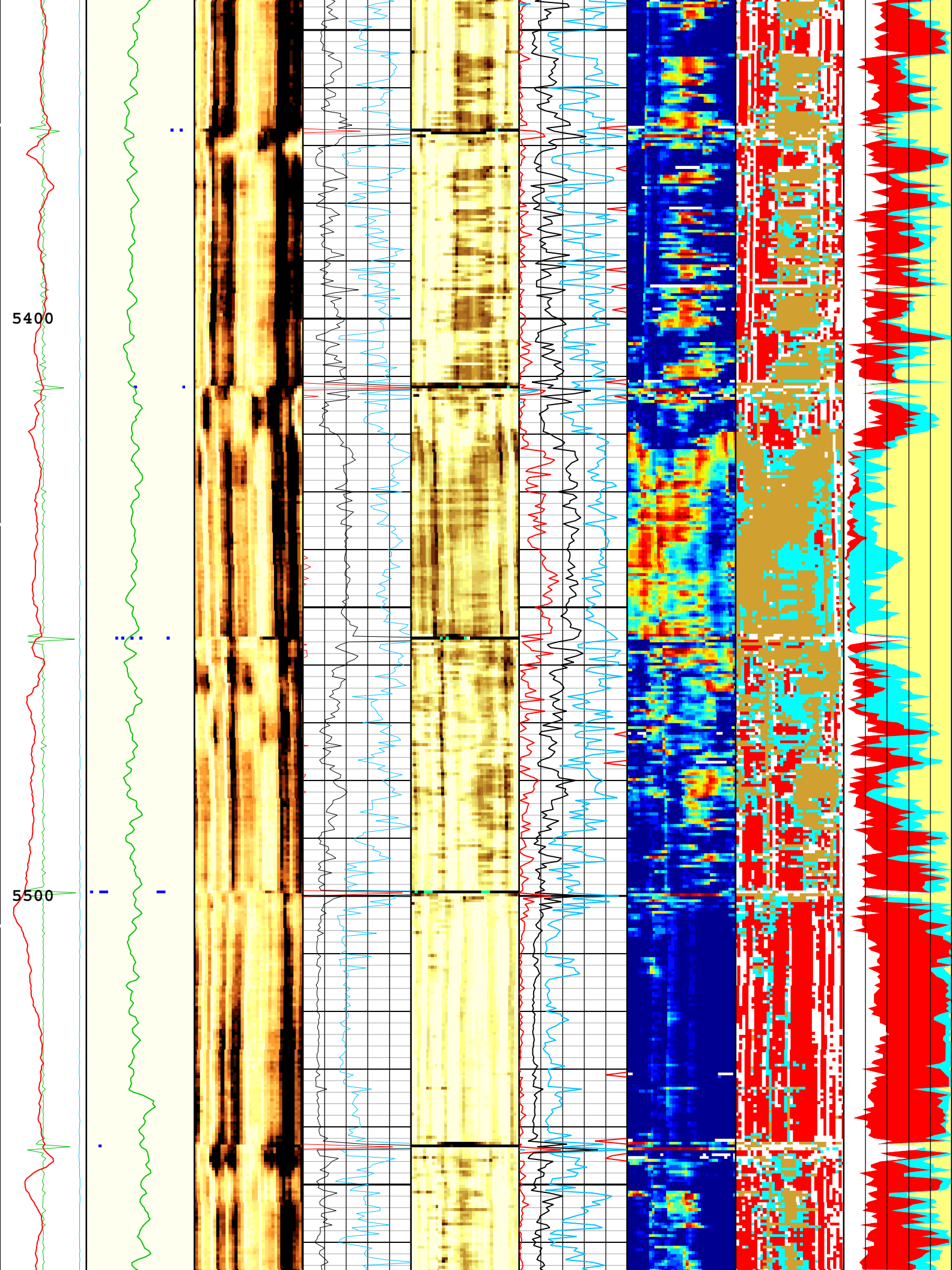


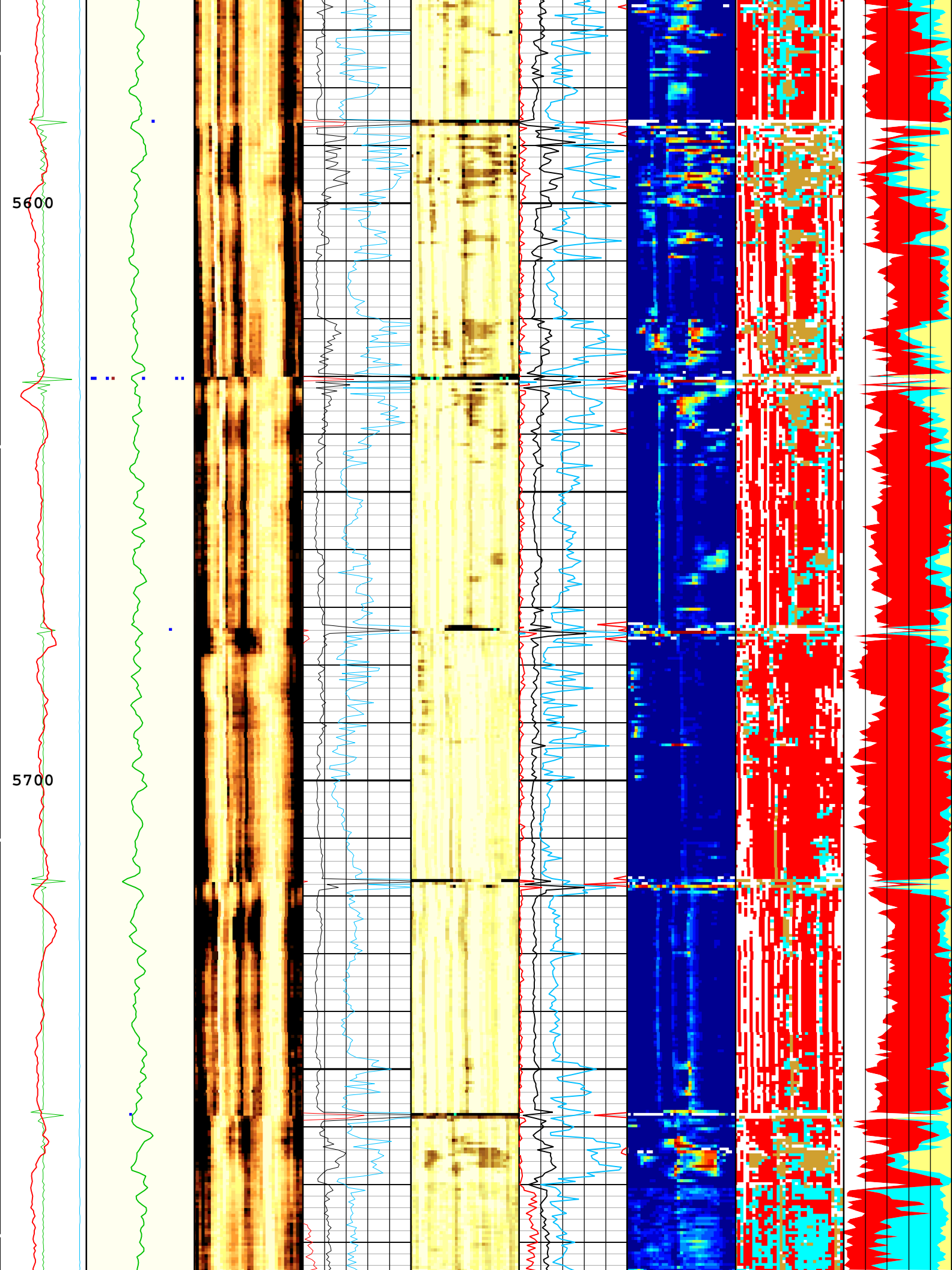


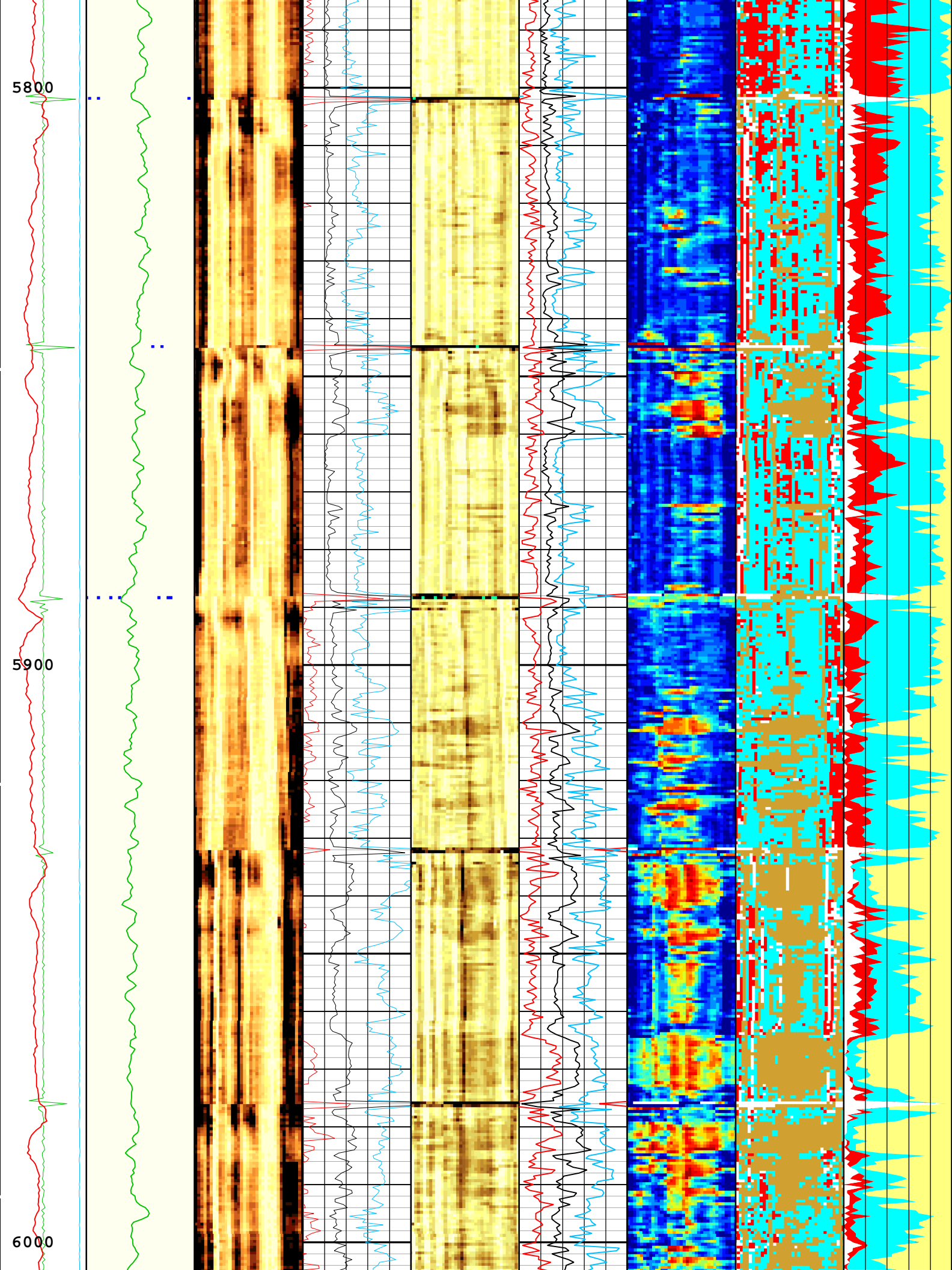


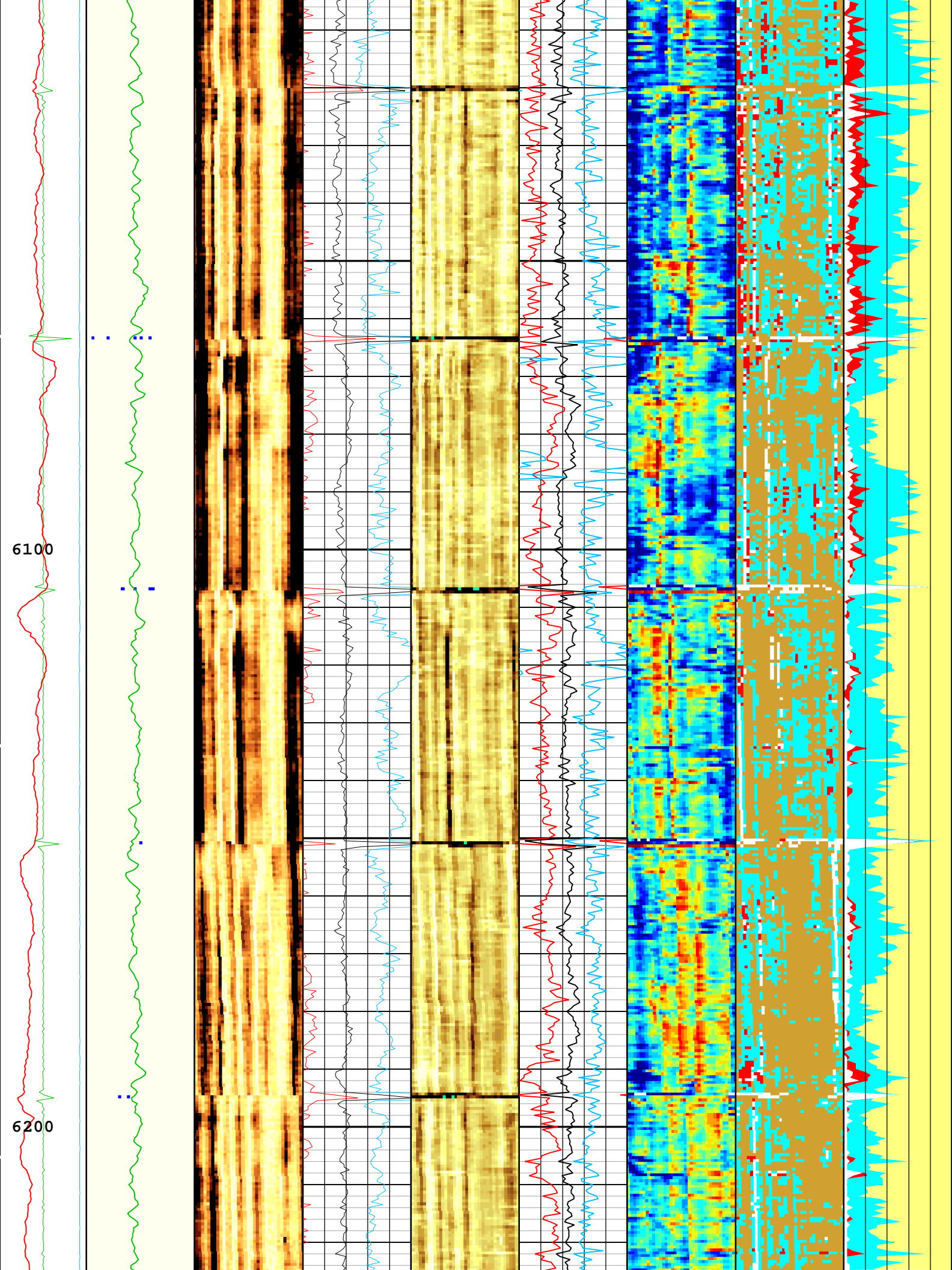


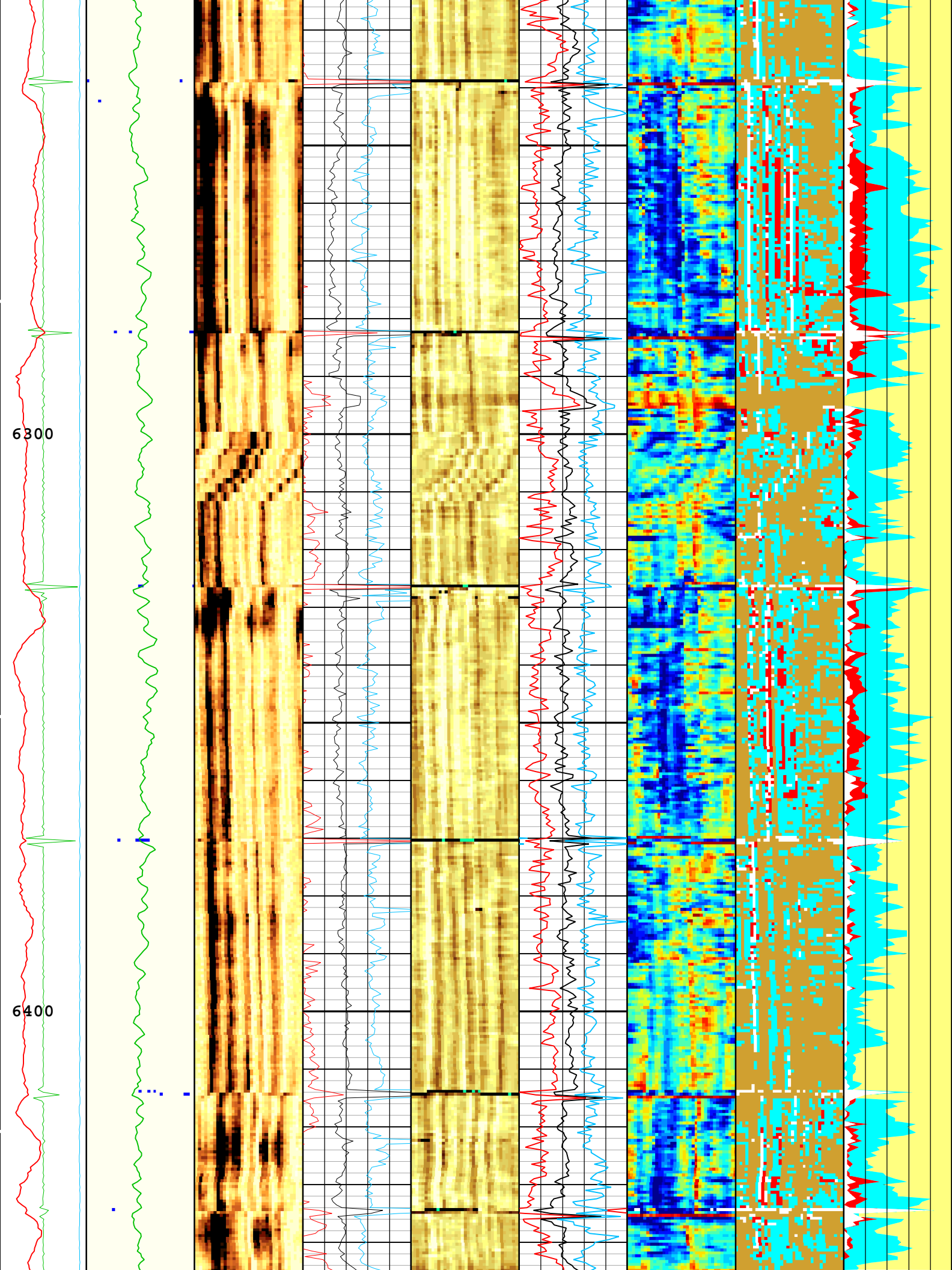


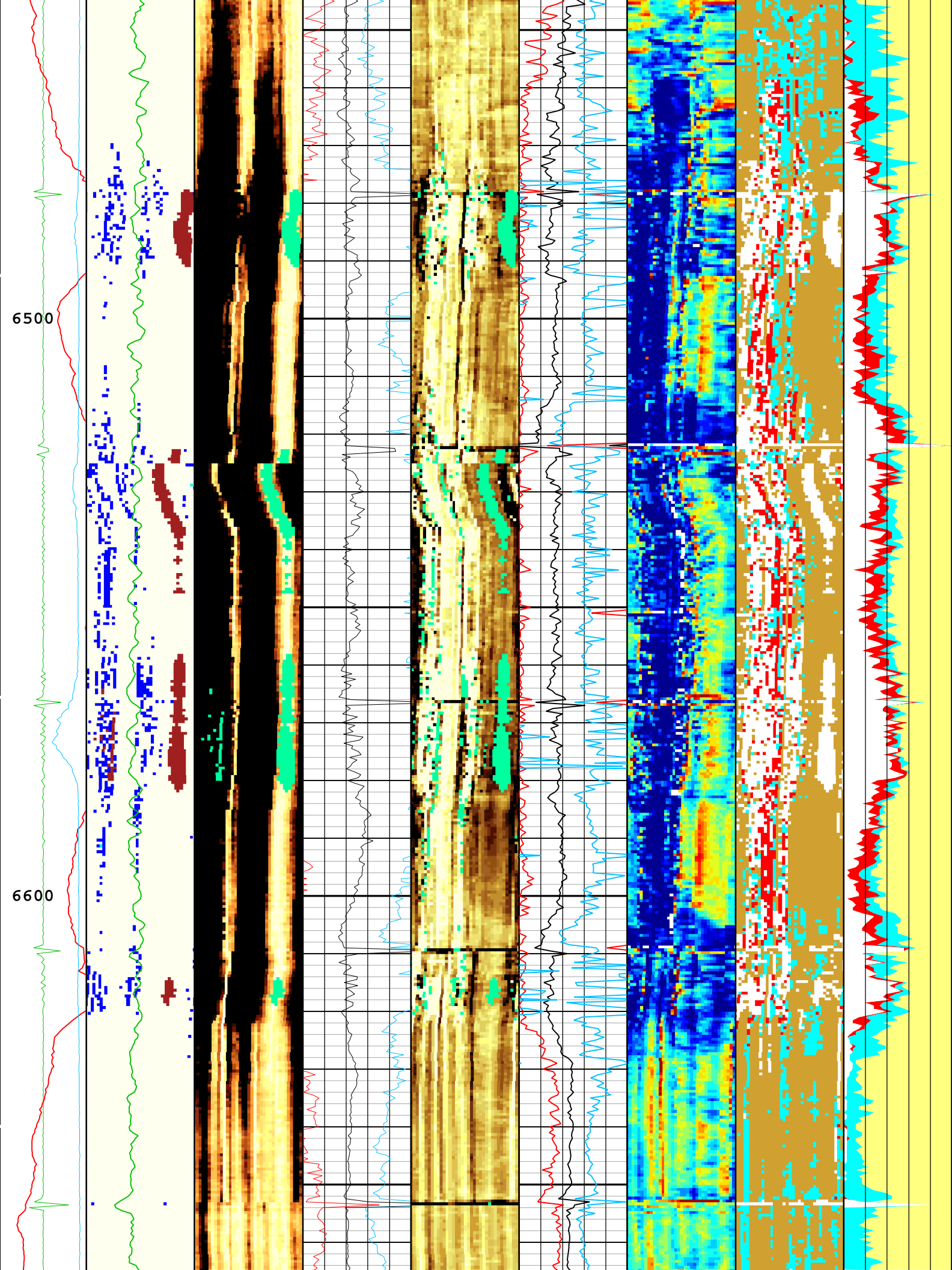


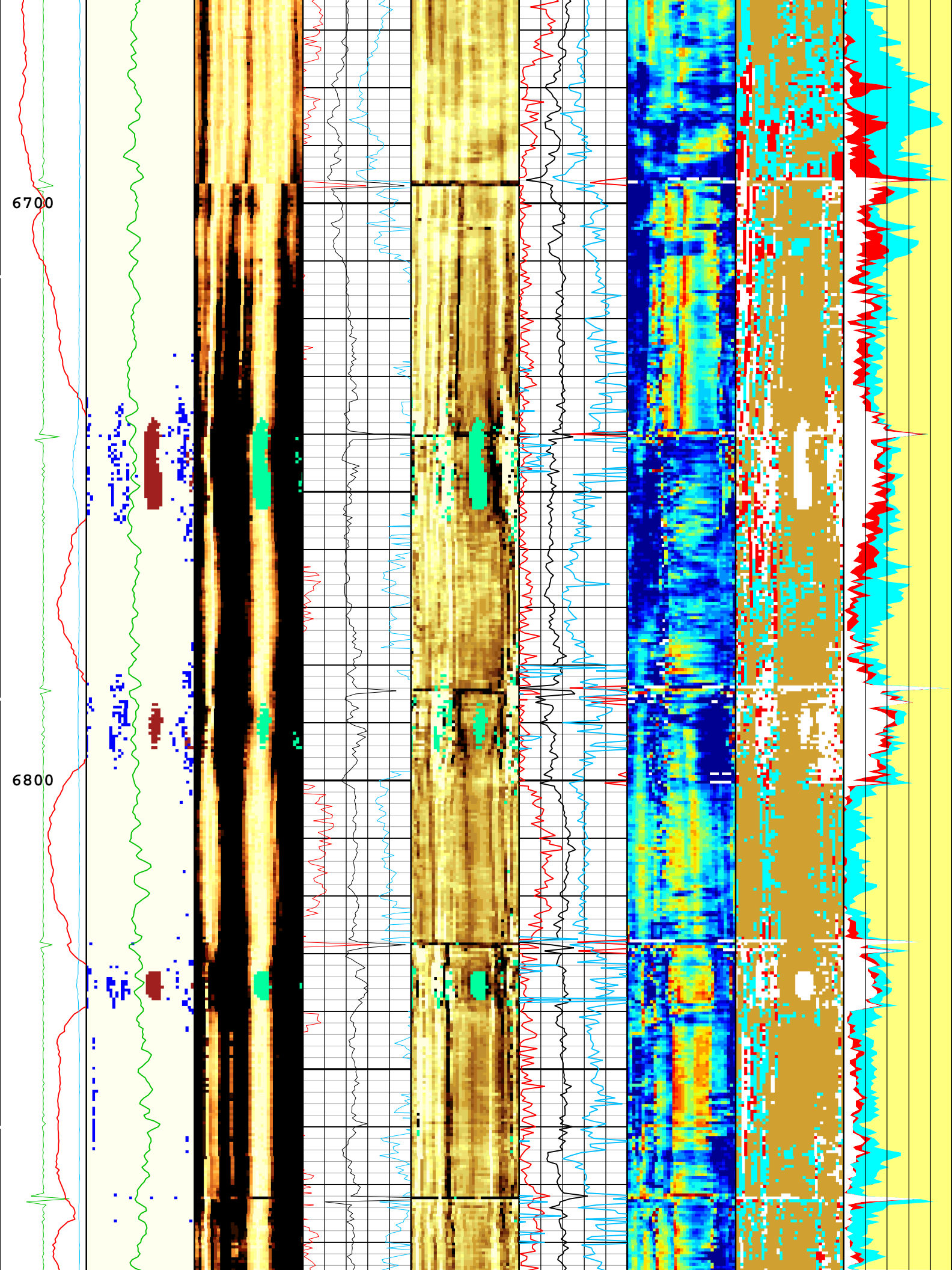






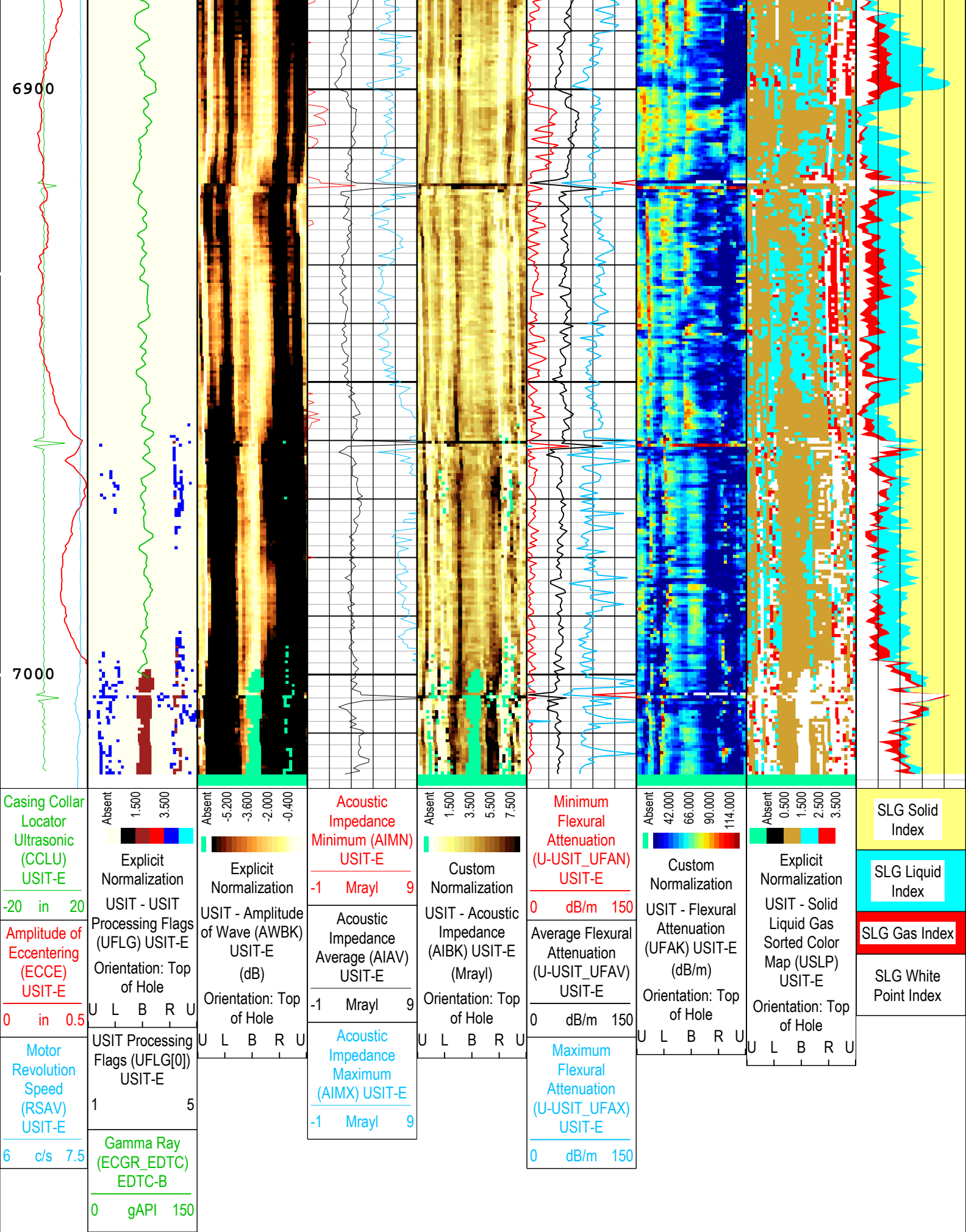






6700

6800



TIME_1900 - Time Marked every 60.00 (s)

USIT Processing Flags (UFLG[0]) USIT-E

1 - UFLG 1 Value within [0.0 - 1.5] - : <div>UTIM Error</div>				
2 - UFLG 2 Value within [1.5 - 2.5] - : <div>Pulse Origin Not Detected</div>				
3 - UFLG 3 Value within [2.5 - 3.5] - : <div>WINLEN Error</div>				
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : <div>Casing Thickness Error</div>				
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - : <div>Loop Processing Error</div>				
Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-May-2019 16:18:00				
Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BERJ	Bad Echo Rejection	USIT-E	On	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson Ratio	
CBLO	Casing Bottom (Logger)	WLSESSION	7018	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	10.5	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	0.08	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	FreePipe Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	Depth Zoned	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.18	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.15	
RCOD	Reference Calibrator Outer Diameter	USIT-E	4.5	in
RCSO	Reference Calibrator Standoff	USIT-E	0.842	in
RCTH	Reference Calibrator Thickness	USIT-E	0.216	in
RPLUS_PROCESS	Ultrasonic R+ Processing	USIT-E	No	
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.68	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	1.77	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
U-UPD	Thickness Detection Policy	USIT-E	FirstValid	

THDP	Thickness Detection Policy	USIT-E	Fundamental	
VCAS	Ultrasonic Transversal Velocity in Casing	USIT-E	51.4	us/ft
ZCAS	Acoustic Impedance of Casing	USIT-E	46.25	Mrayl
ZINI	Initial Estimate of Cement Impedance	USIT-E	-1	Mrayl
ZMUD	Acoustic Impedance of Mud	Borehole	1.78	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	13.5	70	2338
BS	8.5	2338	7018
MEAS_WLEN	22.44	70	7018
MEAS_WLEN	20	7018	7019.5

All depth are actual.

Tool Control Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOT(DOS)	Distance between Opposite Transducer Faces	USIT-E	1.756	in
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
MOTOR_PROTECT	Motor Protection	USIT-E	On	
UACLV_PERM	Ultrasonic ACLV Permanent	USIT-E	Yes	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	Time Zoned	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	177	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	Time Zoned	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	146	us
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
USSP	Ultrasonic Service	USIT-E	IBC	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	31.88	us
WINE	Window End Time	USIT-E	73.09	us

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	120	18-May-2019 11:04:23	18-May-2019 11:14:26	7020.32	6317.19
EMXV	90	18-May-2019 11:14:26	18-May-2019 11:14:45	6317.19	6293.99
EMXV	70	18-May-2019 11:14:45	18-May-2019 11:14:54	6293.99	6283.94
EMXV	90	18-May-2019 11:14:54	18-May-2019 11:15:06	6283.94	6269.58
EMXV	60	18-May-2019 11:15:06	18-May-2019 11:15:15	6269.58	6257.91
EMXV	40	18-May-2019 11:15:15	18-May-2019 11:15:27	6257.91	6244.1

EMXV	80	18-May-2019 11:15:27	18-May-2019 11:15:40	6244.1	6228.25
EMXV	120	18-May-2019 11:15:40	18-May-2019 12:46:32	6228.25	70.43
U-USIT_UFWB	137	18-May-2019 11:04:23	18-May-2019 11:05:03	7020.32	6996.88
U-USIT_UFWB	132.32	18-May-2019 11:05:03	18-May-2019 12:46:32	6996.88	70.43
U-USIT_UNWB	106	18-May-2019 11:04:23	18-May-2019 11:05:17	7020.32	6981.51
U-USIT_UNWB	101.79	18-May-2019 11:05:17	18-May-2019 12:46:32	6981.51	70.43

All depth are at tool zero.

ONE

IBC SLG Composite

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	70.43 ft	7020.32 ft	18-May-2019 11:04:23 AM	18-May-2019 12:46:32 PM	ON	4.94 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources and Operating LLC

Well:Echeverria 2D-2H-D267






ONE: Log[4]:Up:S010

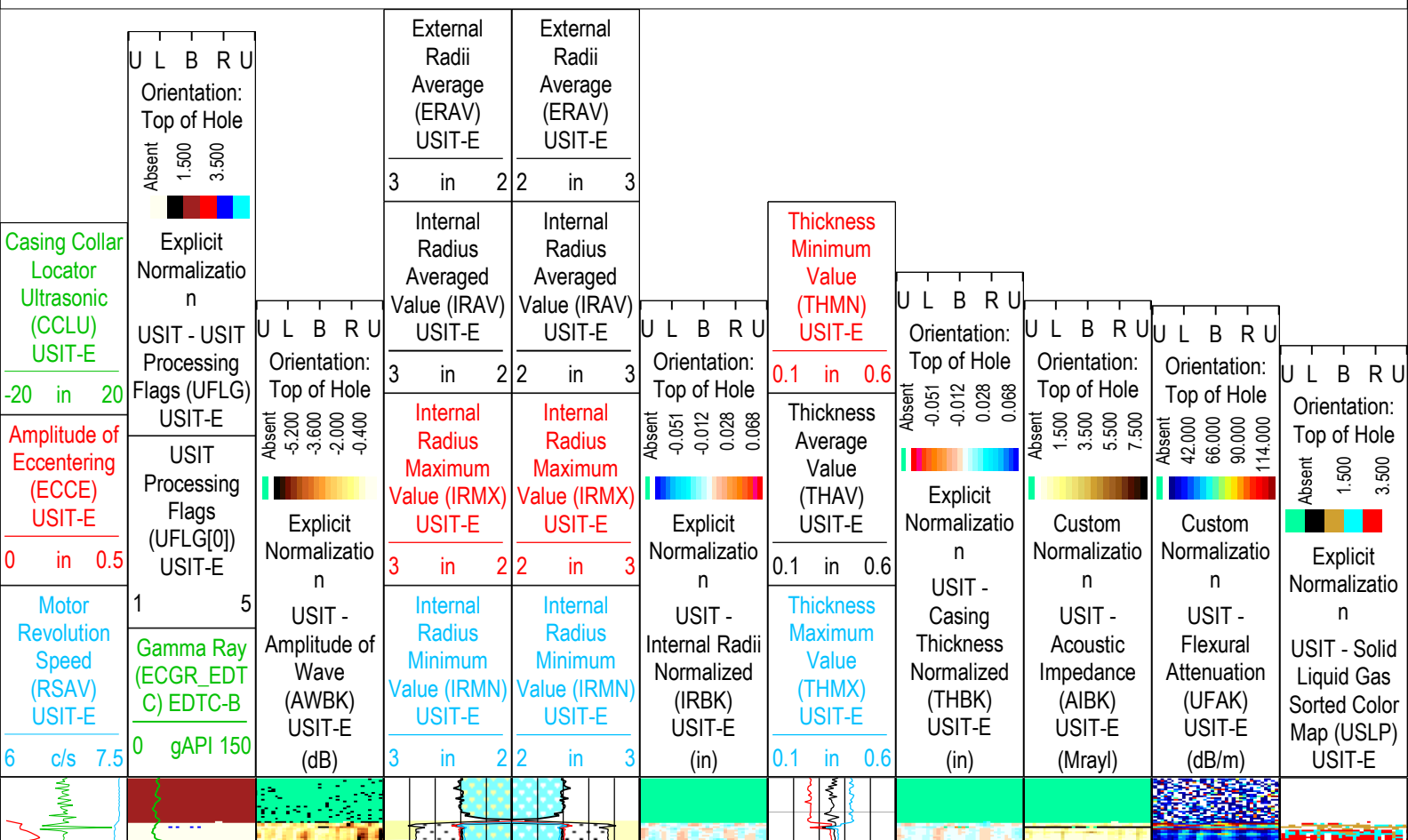
Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth

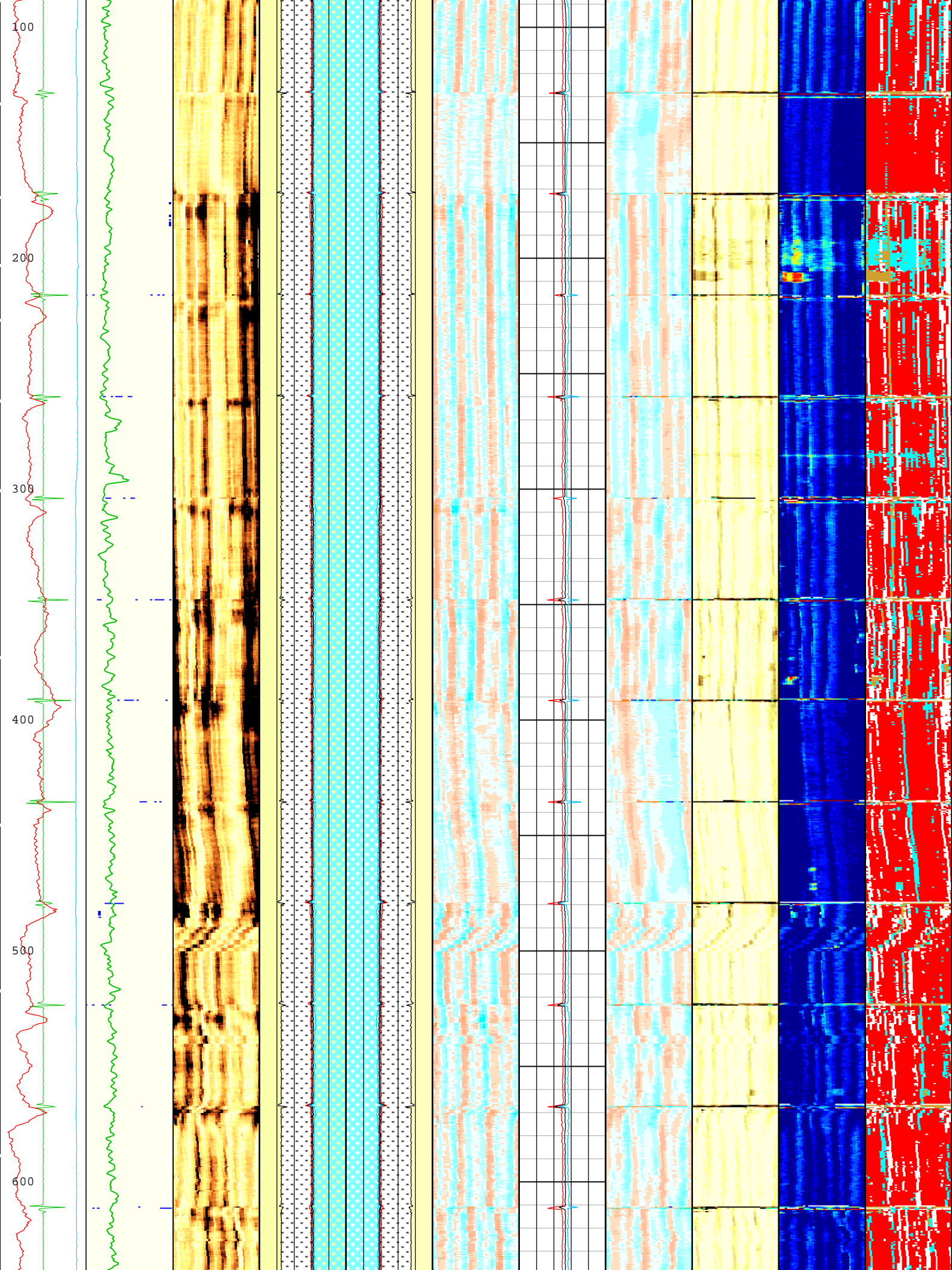
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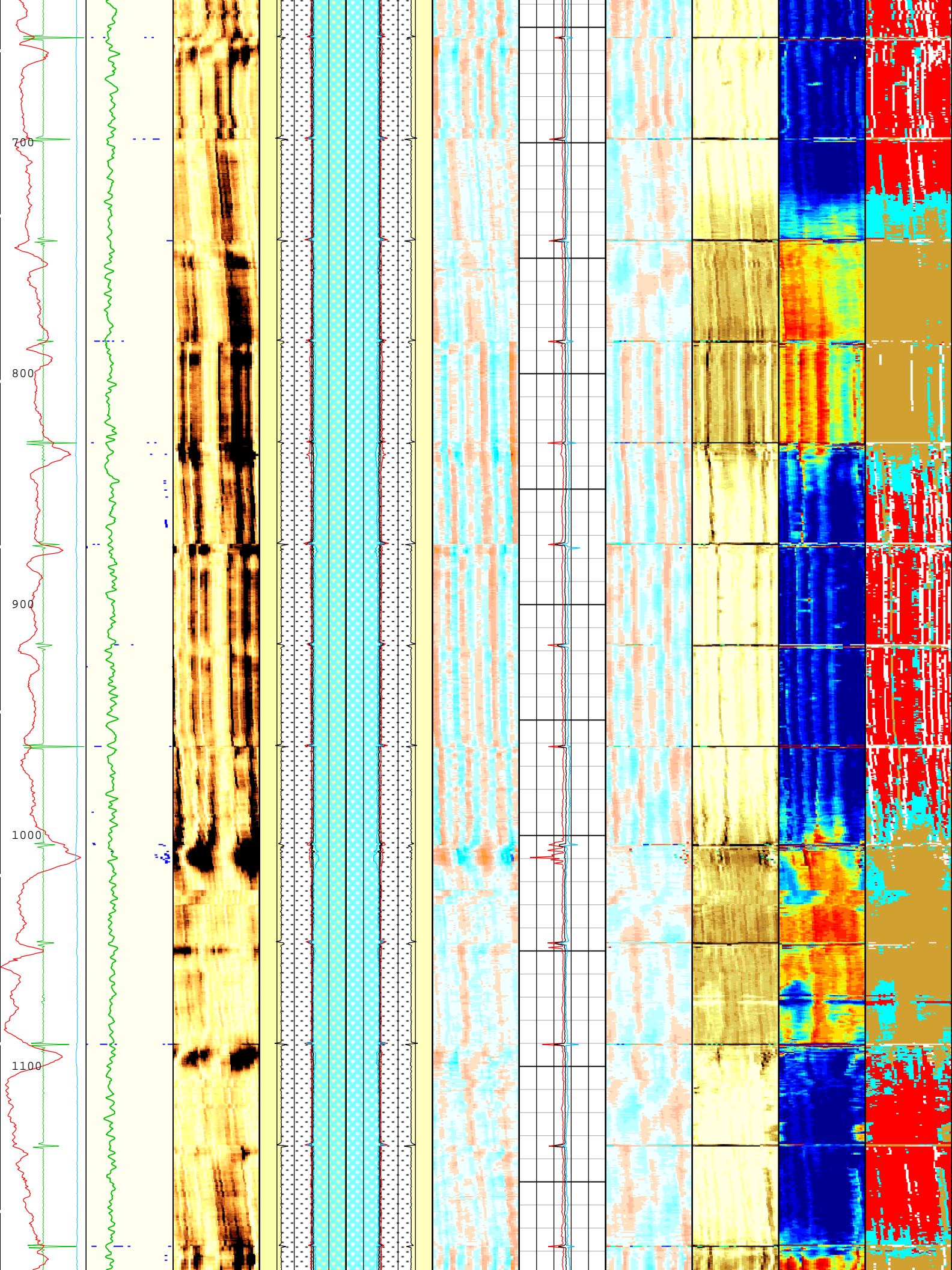
TIME_1900 - Time Marked every 60.00 (s)

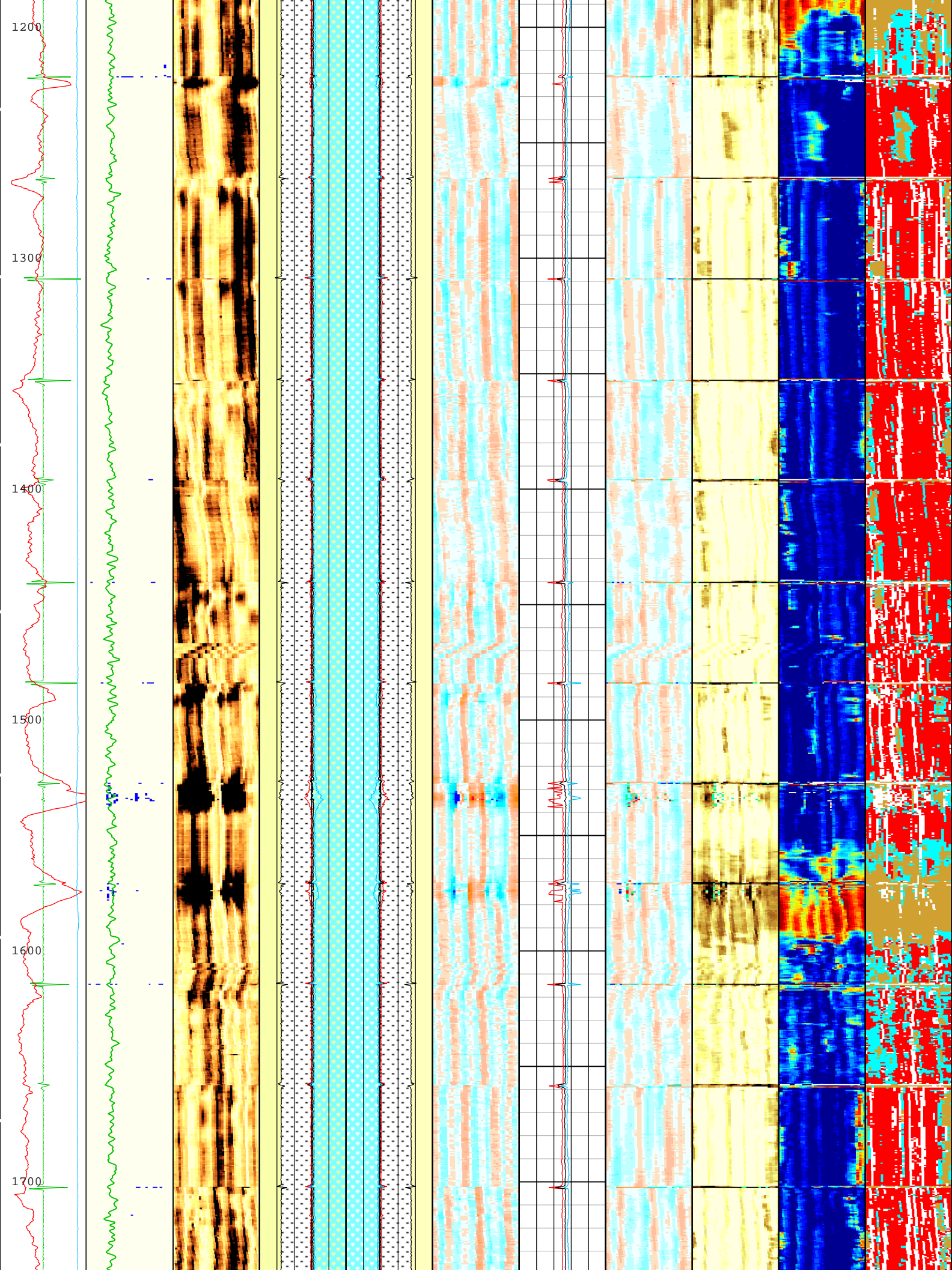
USIT Processing Flags (UFLG[0]) USIT-E

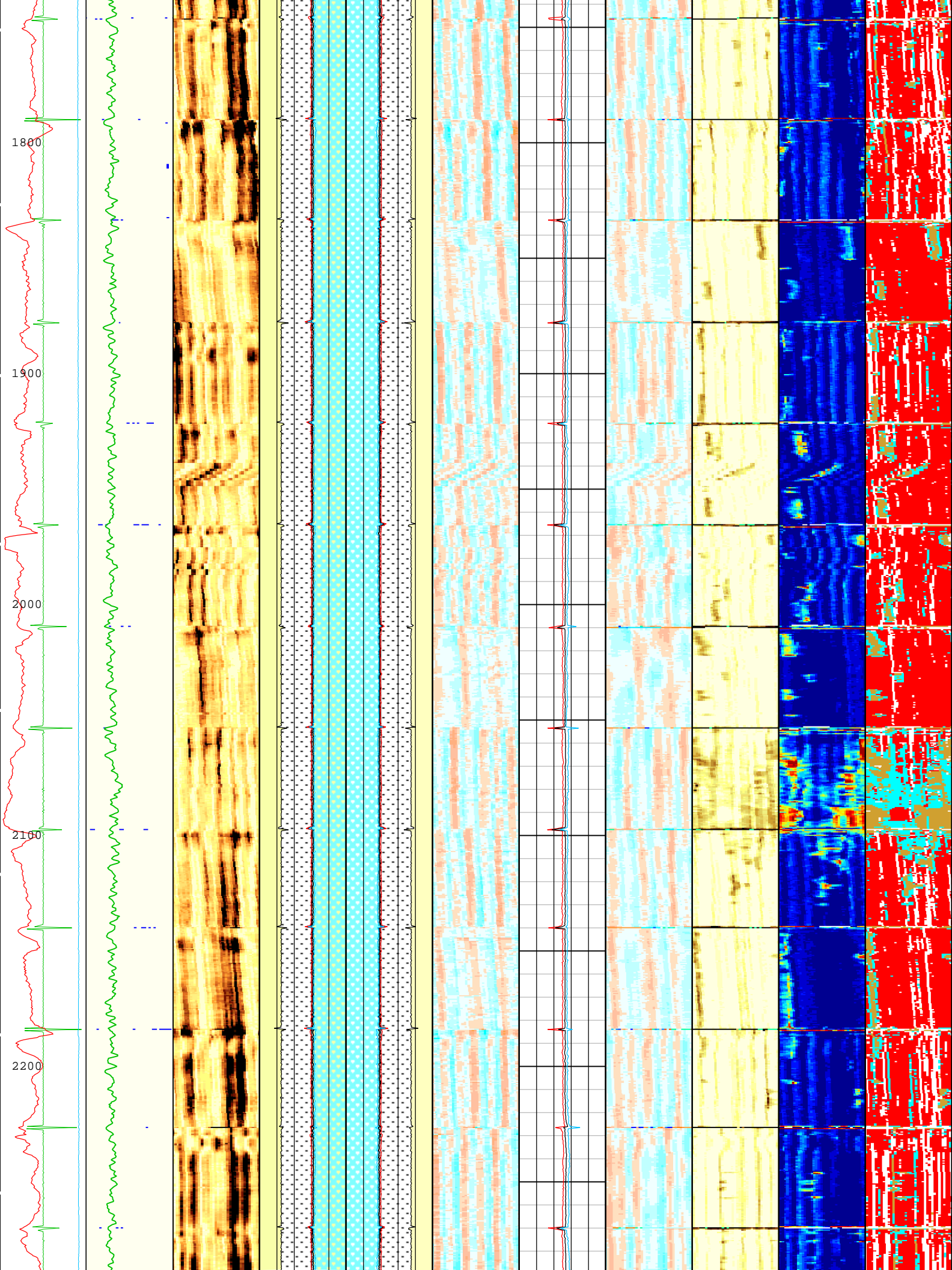
- 1 - UFLG 1 Value within [0.0 - 1.5] - :  UTIM Error
- 2 - UFLG 2 Value within [1.5 - 2.5] - :  Pulse Origin Not Detected
- 3 - UFLG 3 Value within [2.5 - 3.5] - :  WINLEN Error
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :  Casing Thickness Error
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :  Loop Processing Error

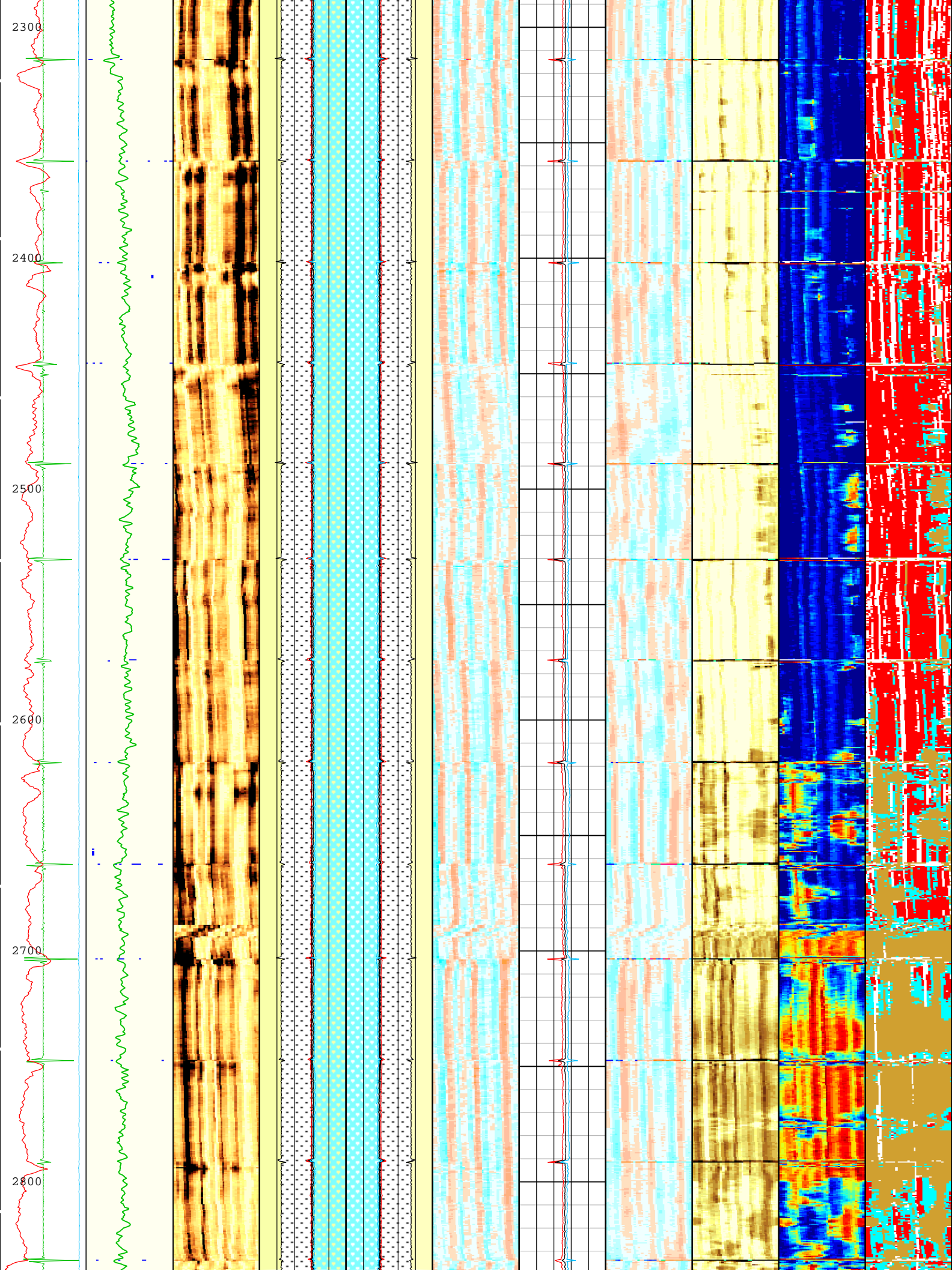


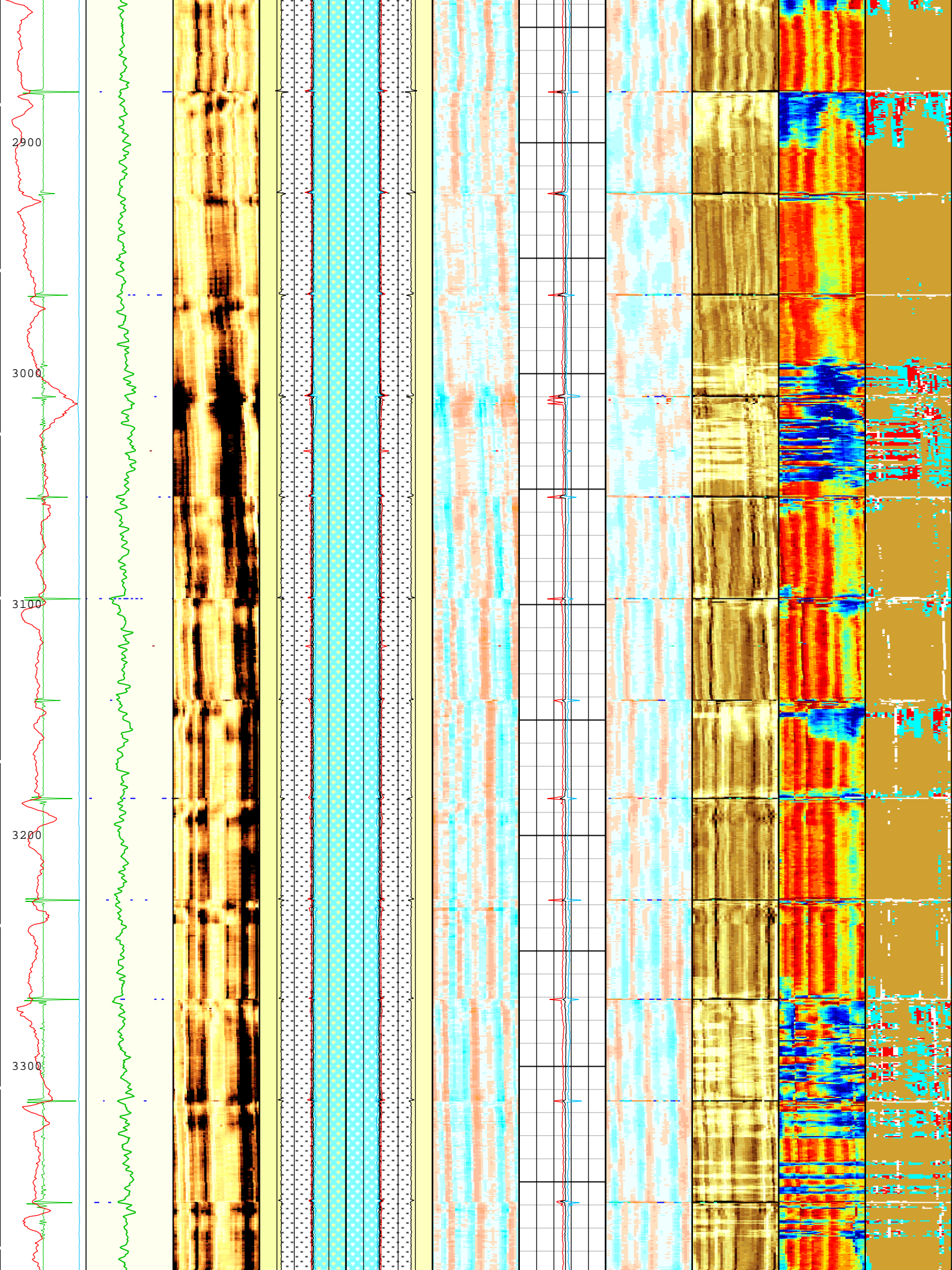


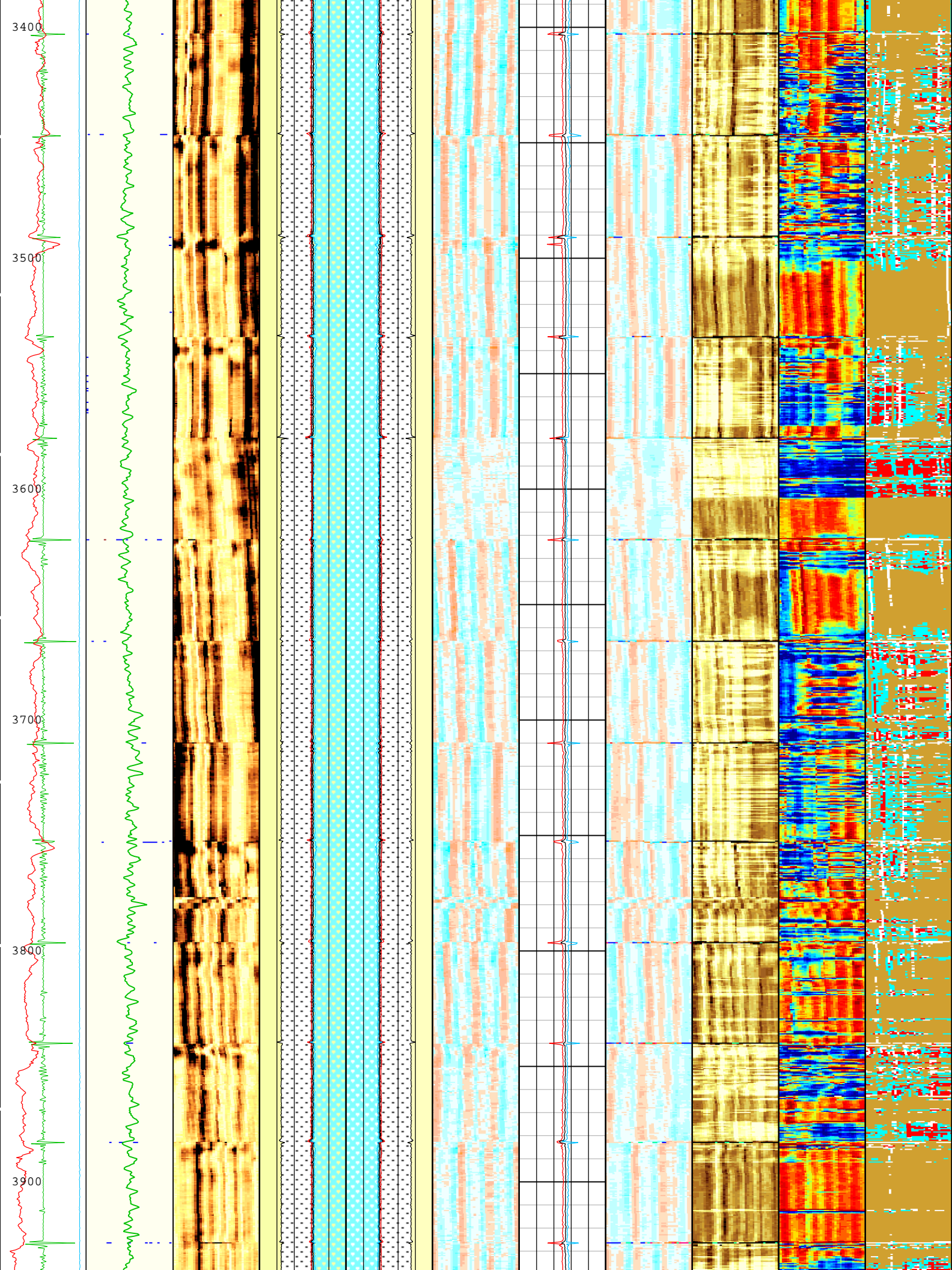


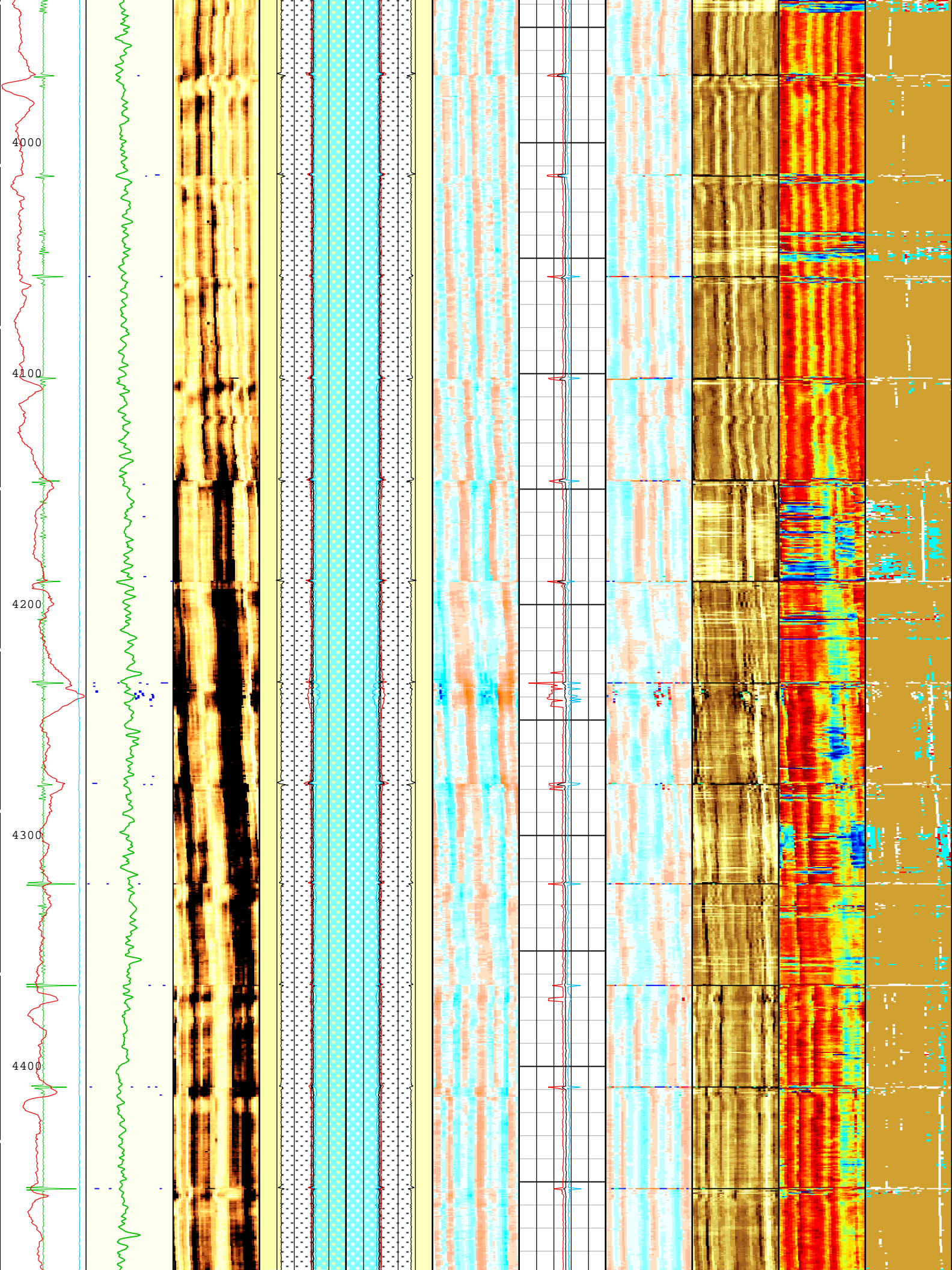


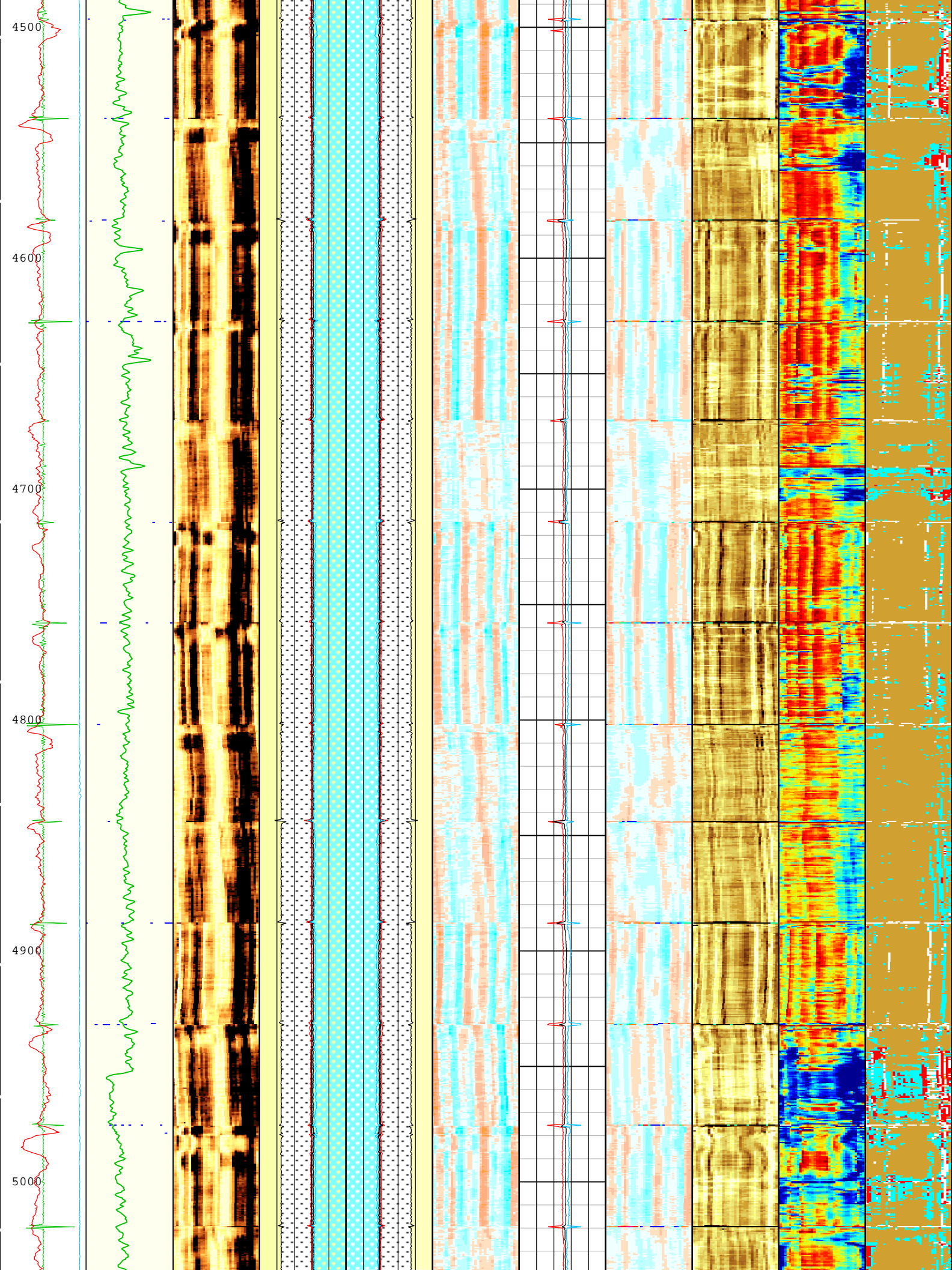


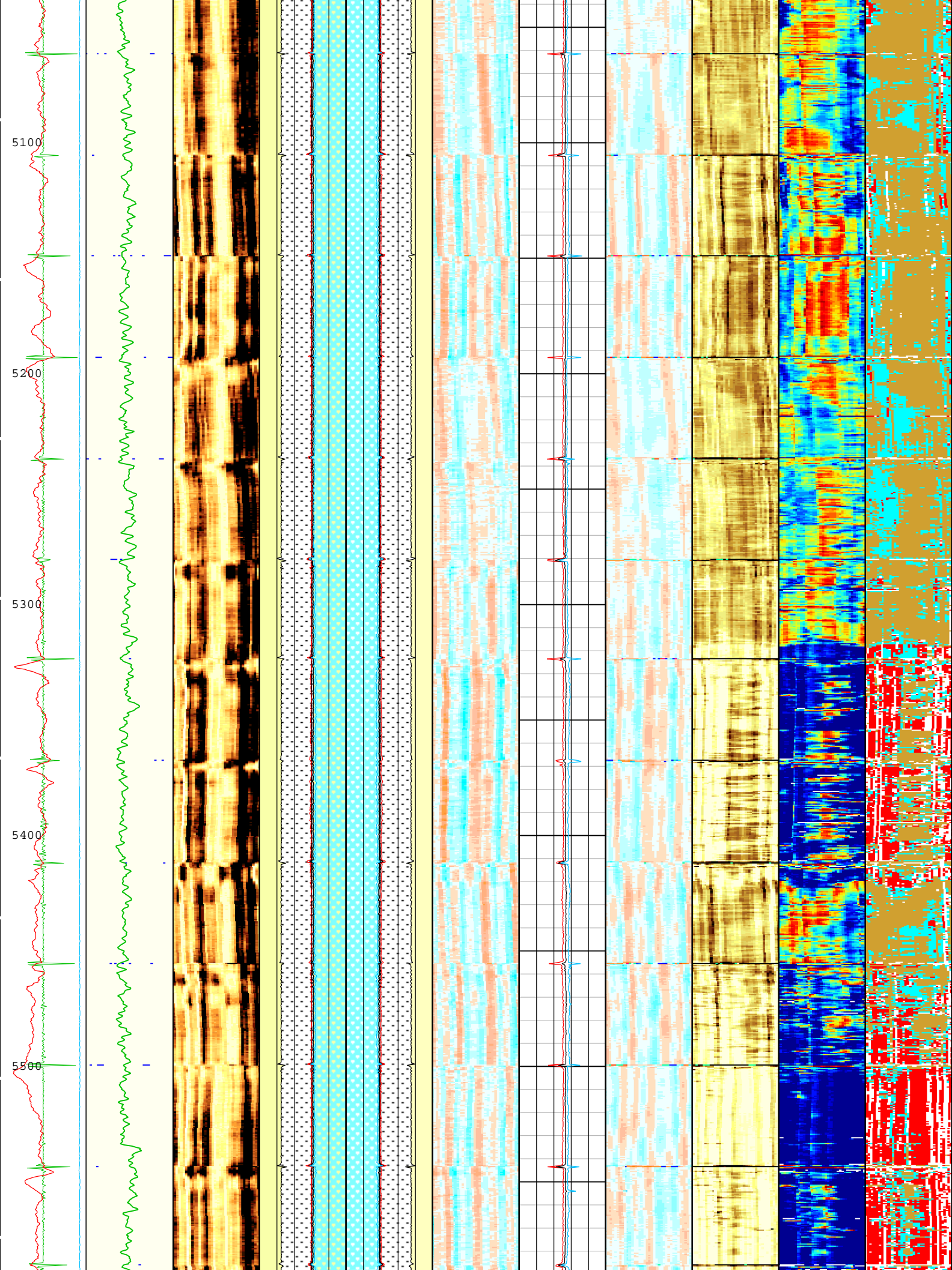


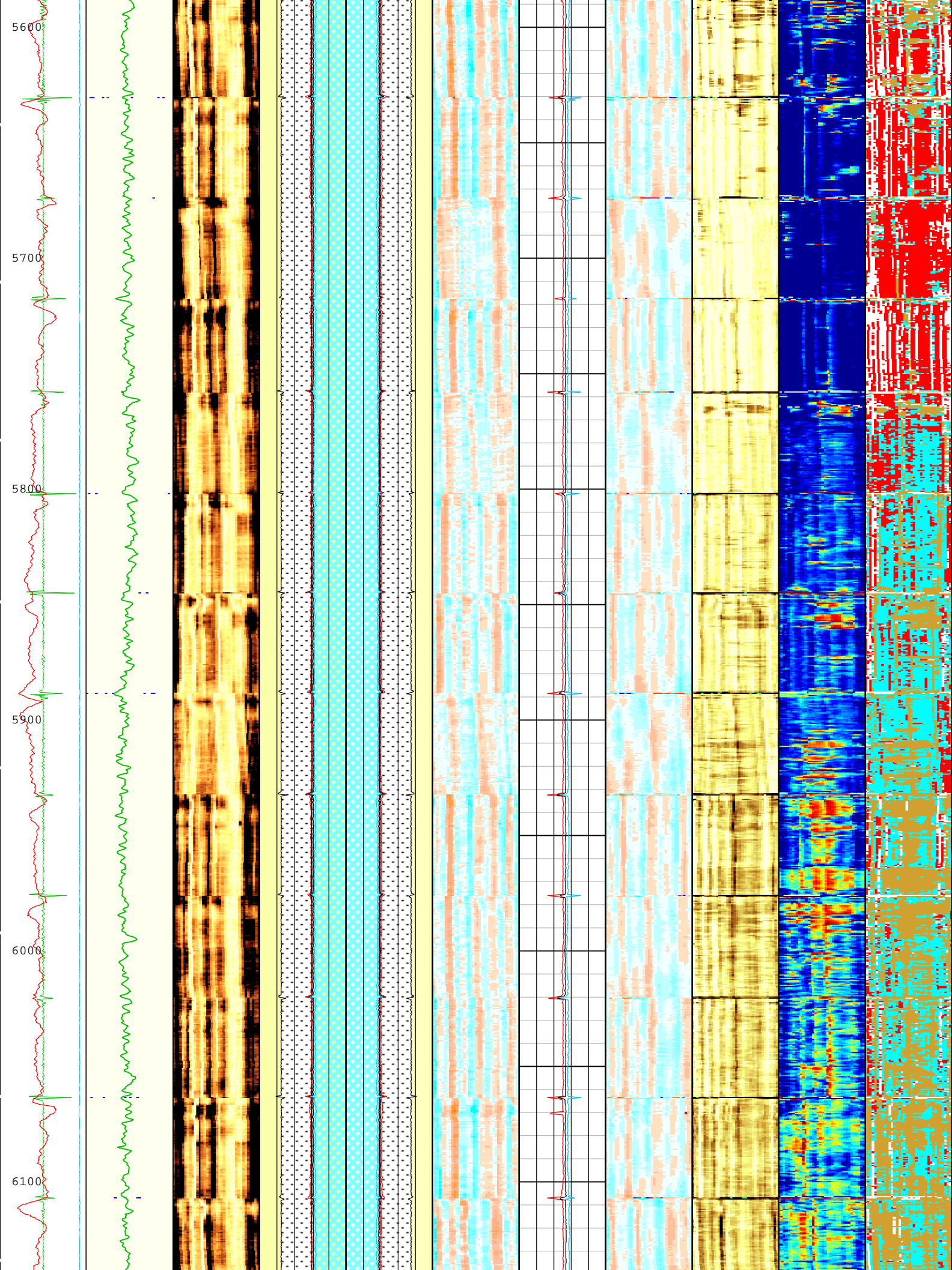


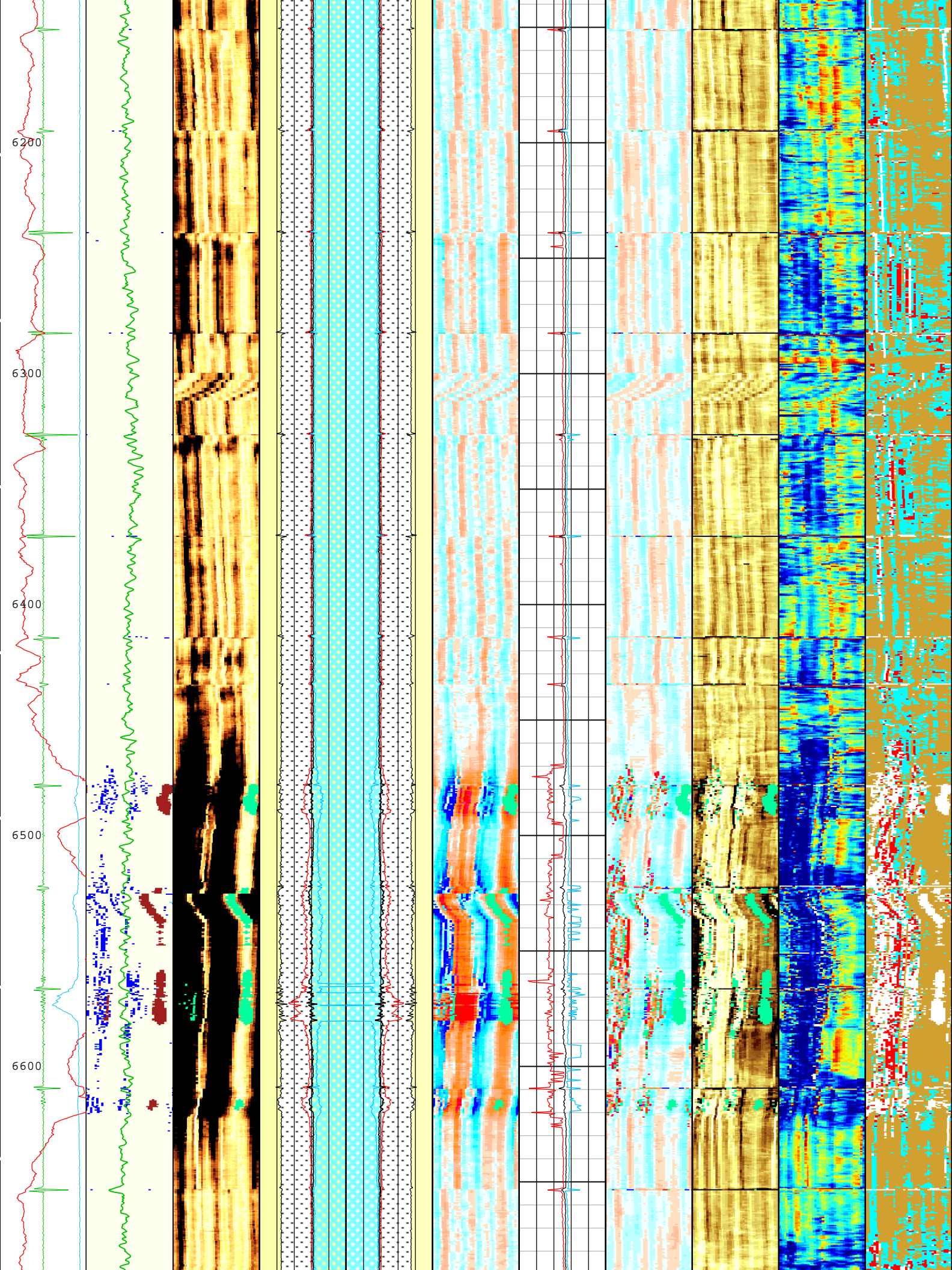


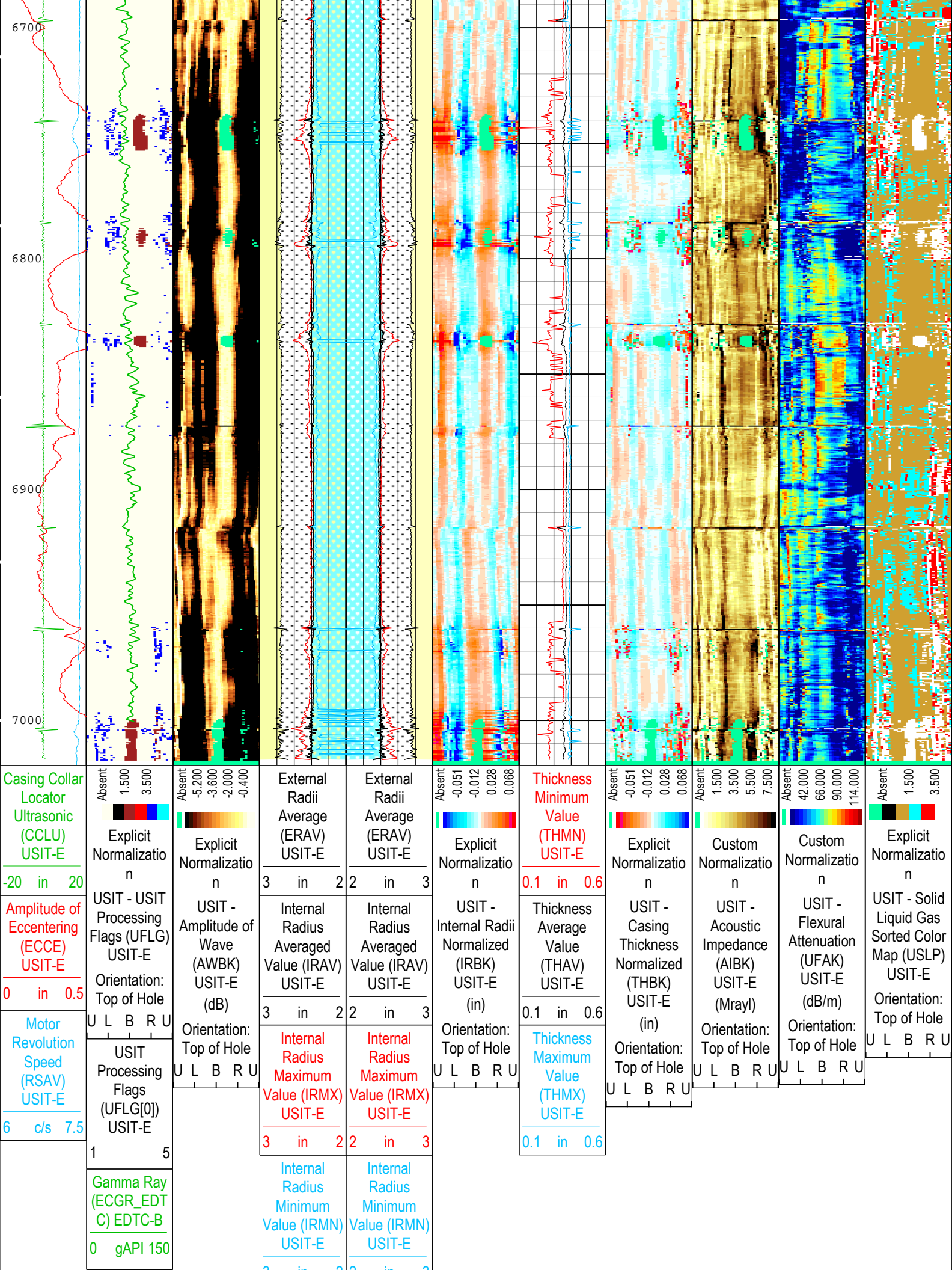

















3	in	2	2	in	3
USIT Processing Flags (UFLG[0]) USIT-E					
1 - UFLG 1 Value within [0.0 - 1.5] - :		 UTIM Error			
2 - UFLG 2 Value within [1.5 - 2.5] - :		 Pulse Origin Not Detected			
3 - UFLG 3 Value within [2.5 - 3.5] - :		 WINLEN Error			
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :		 Casing Thickness Error			
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :		 Loop Processing Error			

TIME_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth

Creation Date: 19-May-2019 16:18:13

Channel Processing Parameters	
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ONE: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CBLO	Casing Bottom (Logger)	WLSESSION	7018	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	10.5	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	0.08	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	FreePipe Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	Depth Zoned	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.18	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.15	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.68	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	1.77	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.78	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	13.5	70	2338
BS	8.5	2338	7018
MEAS_WLEN	22.44	70	7018
MEAS_WLEN	20	7018	7019.5

All depth are actual.

Tool Control Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	Time Zoned	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	177	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	Time Zoned	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	146	us
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	31.88	us
WINE	Window End Time	USIT-E	73.09	us

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	120	18-May-2019 11:04:23	18-May-2019 11:14:26	7020.32	6317.19
EMXV	90	18-May-2019 11:14:26	18-May-2019 11:14:45	6317.19	6293.99
EMXV	70	18-May-2019 11:14:45	18-May-2019 11:14:54	6293.99	6283.94
EMXV	90	18-May-2019 11:14:54	18-May-2019 11:15:06	6283.94	6269.58
EMXV	60	18-May-2019 11:15:06	18-May-2019 11:15:15	6269.58	6257.91
EMXV	40	18-May-2019 11:15:15	18-May-2019 11:15:27	6257.91	6244.1
EMXV	80	18-May-2019 11:15:27	18-May-2019 11:15:40	6244.1	6228.25
EMXV	120	18-May-2019 11:15:40	18-May-2019 12:46:32	6228.25	70.43
U-USIT_UFWB	137	18-May-2019 11:04:23	18-May-2019 11:05:03	7020.32	6996.88
U-USIT_UFWB	132.32	18-May-2019 11:05:03	18-May-2019 12:46:32	6996.88	70.43
U-USIT_UNWB	106	18-May-2019 11:04:23	18-May-2019 11:05:17	7020.32	6981.51
U-USIT_UNWB	101.79	18-May-2019 11:05:17	18-May-2019 12:46:32	6981.51	70.43

All depth are at tool zero.

ONE

IBC Goodwin Compressed

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	70.43 ft	7020.32 ft	18-May-2019 11:04:23 AM	18-May-2019 12:46:32 PM	ON	4.94 ft	Yes

All depths are referenced to toolstring zero

Log

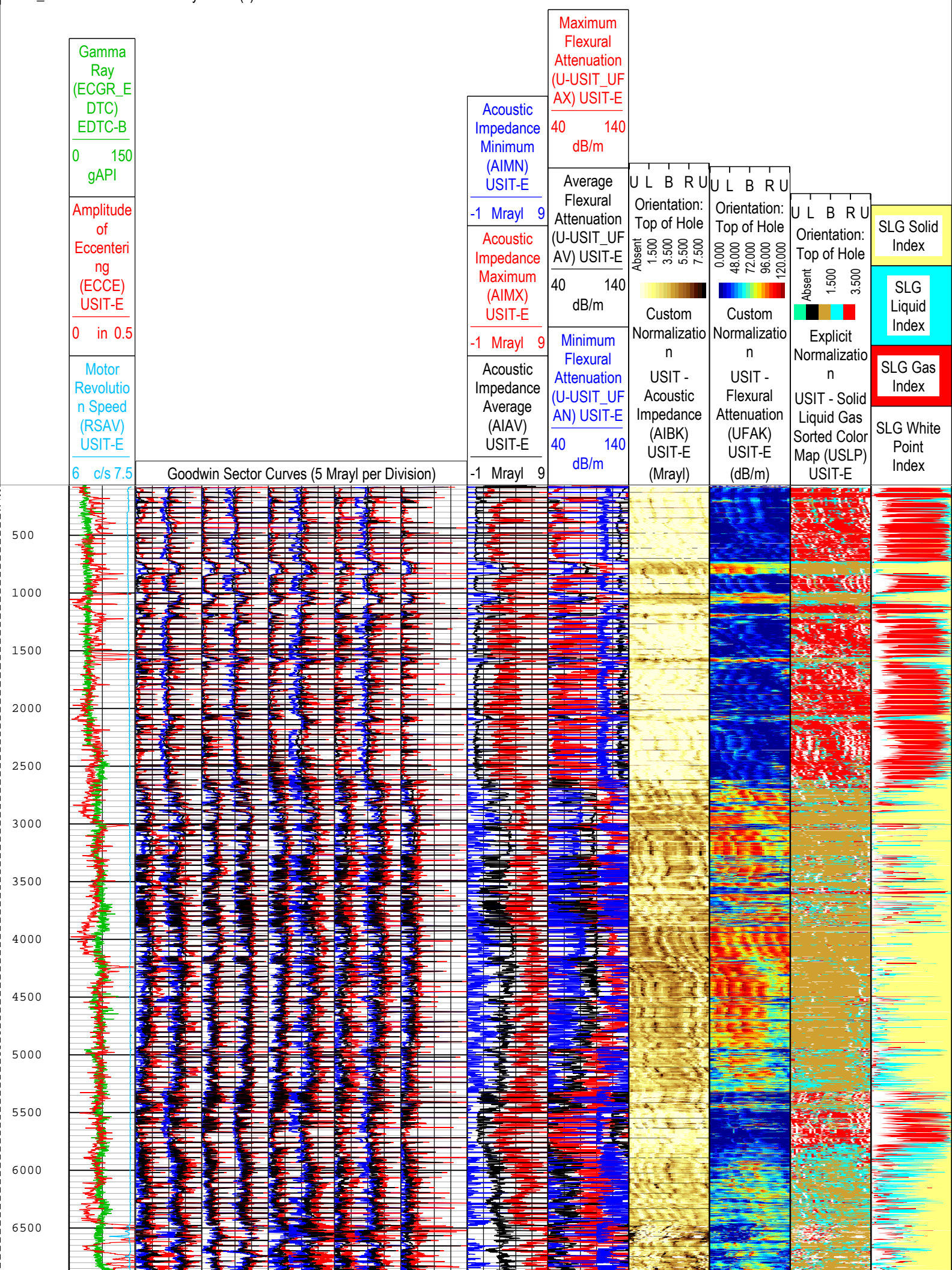
Company:Crestone Peak Resources and Operating LLC

Well:Echeverria 2D-2H-D267

ONE: Log[4]:Up:S010

Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-May-2019 16:18:23

TIME 1900 - Time Marked every 60.00 (s)



7.000	<div><div><div>Gamma Ray (ECGR_EDTC) EDTC-B</div><div>0150 gAPI</div><div>Amplitude of Eccentering (ECCE) USIT-E</div><div>0 in 0.5</div><div>Motor Revolution Speed (RSAV) USIT-E</div><div>6 c/s 7.5</div></div></div> <td>Goodwin Sector Curves (5 Mrayl per Division)</td> <td><div><div>Acoustic Impedance Minimum (AIMN) USIT-E</div><div>-1 Mrayl9</div><div>Acoustic Impedance Maximum (AIMX) USIT-E</div><div>-1 Mrayl9</div><div>Acoustic Impedance Average (AIAV) USIT-E</div><div>-1 Mrayl9</div></div><div><div>Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E</div><div>40140 dB/m</div><div>Average Flexural Attenuation (U-USIT_UF AV) USIT-E</div><div>40140 dB/m</div><div>Minimum Flexural Attenuation (U-USIT_UF AN) USIT-E</div><div>40140 dB/m</div></div><div><div>Absent1.5003.5005.5007.5000.00048.00072.00096.000120.000</div><div>Custom Normalization</div><div>USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)</div><div>Orientation: Top of Hole</div><div>U L B R U</div></div><div><div>Absent1.5003.500</div><div>Custom Normalization</div><div>USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)</div><div>Orientation: Top of Hole</div><div>U L B R U</div></div><div><div>Absent1.5003.500</div><div>Explicit Normalization</div><div>USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E</div><div>Orientation: Top of Hole</div><div>U L B R U</div></div><td><div>SLG Solid Index</div><div>SLG Liquid Index</div><div>SLG Gas Index</div><div>SLG White Point Index</div></td></td>	Goodwin Sector Curves (5 Mrayl per Division)	<div><div>Acoustic Impedance Minimum (AIMN) USIT-E</div><div>-1 Mrayl9</div><div>Acoustic Impedance Maximum (AIMX) USIT-E</div><div>-1 Mrayl9</div><div>Acoustic Impedance Average (AIAV) USIT-E</div><div>-1 Mrayl9</div></div> <div><div>Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E</div><div>40140 dB/m</div><div>Average Flexural Attenuation (U-USIT_UF AV) USIT-E</div><div>40140 dB/m</div><div>Minimum Flexural Attenuation (U-USIT_UF AN) USIT-E</div><div>40140 dB/m</div></div> <div><div>Absent1.5003.5005.5007.5000.00048.00072.00096.000120.000</div><div>Custom Normalization</div><div>USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)</div><div>Orientation: Top of Hole</div><div>U L B R U</div></div> <div><div>Absent1.5003.500</div><div>Custom Normalization</div><div>USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)</div><div>Orientation: Top of Hole</div><div>U L B R U</div></div> <div><div>Absent1.5003.500</div><div>Explicit Normalization</div><div>USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E</div><div>Orientation: Top of Hole</div><div>U L B R U</div></div> <td><div>SLG Solid Index</div><div>SLG Liquid Index</div><div>SLG Gas Index</div><div>SLG White Point Index</div></td>	<div>SLG Solid Index</div> <div>SLG Liquid Index</div> <div>SLG Gas Index</div> <div>SLG White Point Index</div>
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TIME_1900 - Time Marked every 60.00 (s)

Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-May-2019 16:18:23

ONE									
IBC SLG									
Software Version									
Acquisition System						Version			
Maxwell 2019						9.0.106845.3100			
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[1]:Up	Up	2092.28 ft	2419.13 ft	18-May-2019 10:34:52 AM	18-May-2019 10:39:37 AM	ON	1.80 ft	Yes
All depths are referenced to toolstring zero									
Log	Company:Crestone Peak Resources and Operating LLC						Well:Echeverria 2D-2H-D267		
ONE: Log[1]:Up:S010									

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-May-2019 16:18:28

USIT Processing Flags (UFLG[0]) USIT-E

- 1 - UFLG 1 Value within [0.0 - 1.5] - :

2 - UFLG 2 Value within [1.5 - 2.5] - :

3 - UFLG 3 Value within [2.5 - 3.5] - :

4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :

5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :
- UTIM Error

Pulse Origin Not Detected

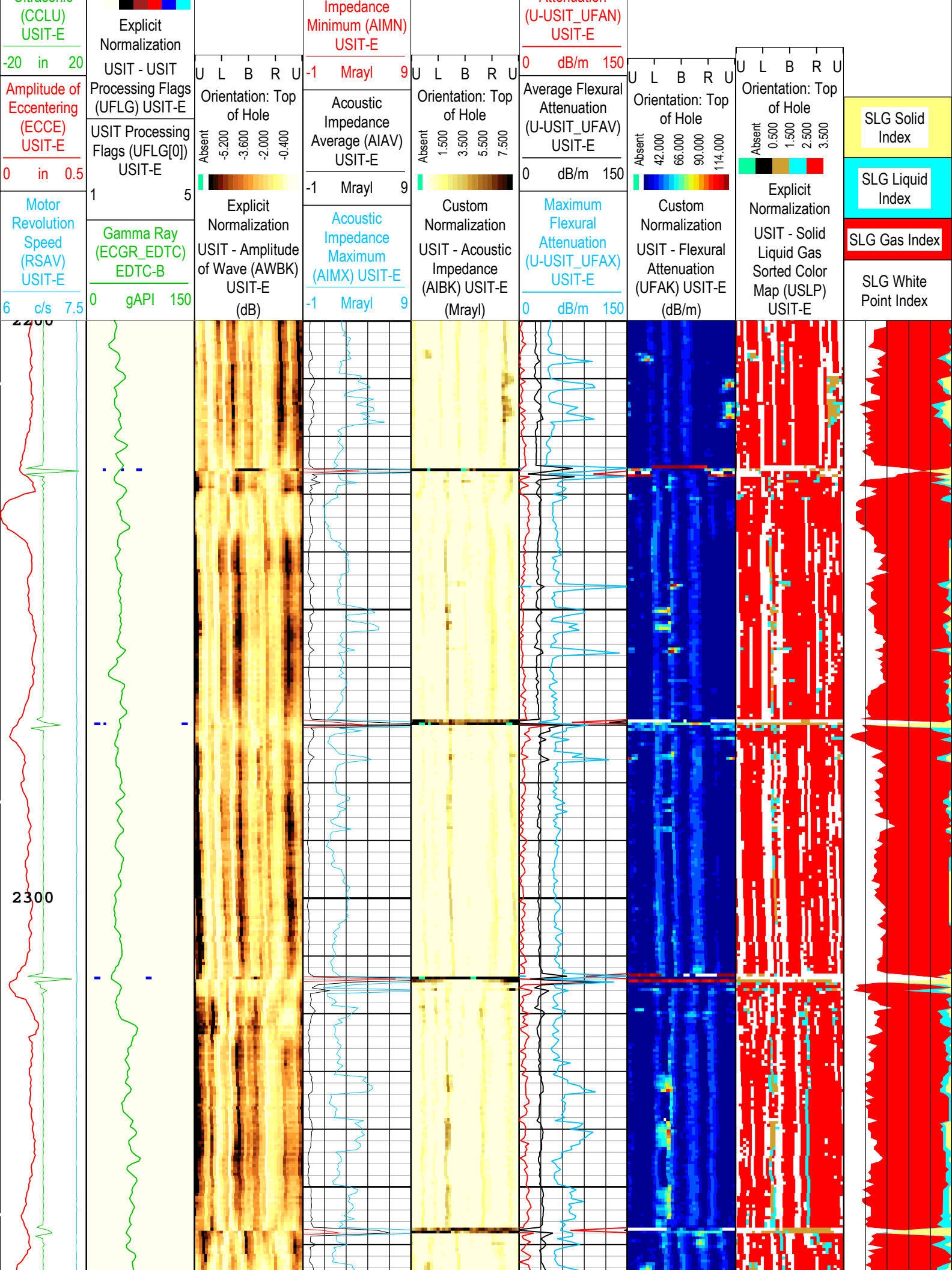
WINLEN Error

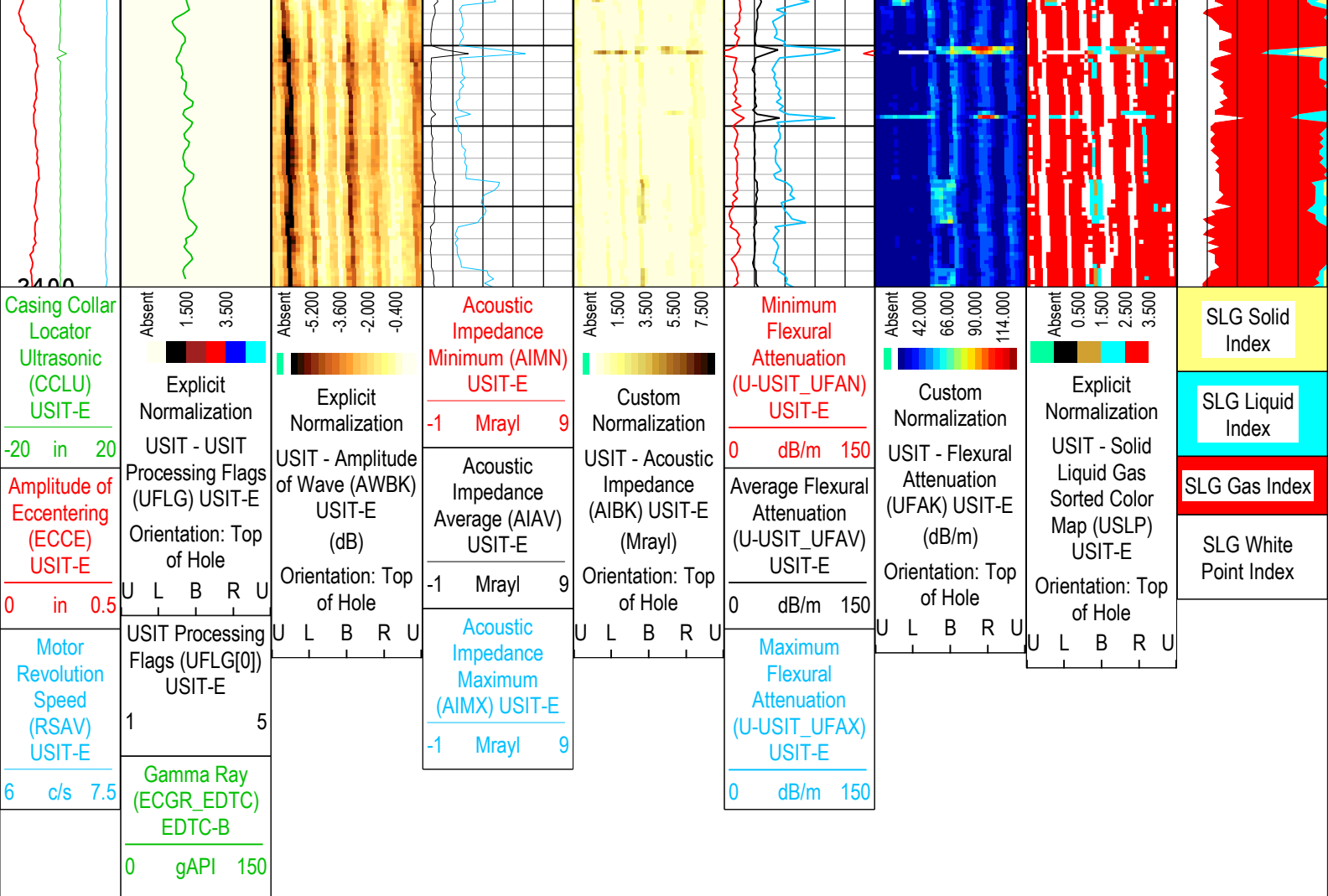
Casing Thickness Error

Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

<div><div>Casing Collar Locator Ultrasonic</div><div><div>U L B R U</div><div>Orientation: Top of Hole</div><div>Absent1.5003.500</div></div></div> <div>Acoustic</div> <div>Minimum Flexural Attenuation</div>





TIME_1900 - Time Marked every 60.00 (s)

USIT Processing Flags (UFLG[0]) USIT-E

- | | |
|---|-----------------------------|
| 1 - UFLG 1 Value within [0.0 - 1.5] - : | ■ UTIM Error |
| 2 - UFLG 2 Value within [1.5 - 2.5] - : | ■ Pulse Origin Not Detected |
| 3 - UFLG 3 Value within [2.5 - 3.5] - : | ■ WINLEN Error |
| 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : | ■ Casing Thickness Error |
| 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - : | ■ Loop Processing Error |

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-May-2019 16:18:28

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BERJ	Bad Echo Rejection	USIT-E	On	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson Ratio	
CBLO	Casing Bottom (Logger)	WLSESSION	7018	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft

FD	Fluid Density	USIT-E	10.5	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	0.08	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	FreePipe Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.18	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.15	
RCOD	Reference Calibrator Outer Diameter	USIT-E	4.5	in
RCSO	Reference Calibrator Standoff	USIT-E	0.842	in
RCTH	Reference Calibrator Thickness	USIT-E	0.216	in
RPLUS_PROCESS	Ultrasonic R+ Processing	USIT-E	No	
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.68	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	1.77	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
THDP	Thickness Detection Policy	USIT-E	Fundamental	
VCAS	Ultrasonic Transversal Velocity in Casing	USIT-E	51.4	us/ft
ZCAS	Acoustic Impedance of Casing	USIT-E	46.25	Mrayl
ZINI	Initial Estimate of Cement Impedance	USIT-E	-1	Mrayl
ZMUD	Acoustic Impedance of Mud	Borehole	1.78	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	13.5	2200	2338
BS	8.5	2338	2400
All depth are actual.			

Tool Control Parameters

ONE: Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOT(DOS)	Distance between Opposite Transducer Faces	USIT-E	1.756	in
EMXV	EMEX Voltage	USIT-E	120	V
HRES	Horizontal Resolution	USIT-E	10 deg	
IRC_ACOTYPE	IRC Acquisition type	USIT-E	1 MHz	

IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
MOTOR_PROTECT	Motor Protection	USIT-E	On	
UACLV_PERM	Ultrasonic ACLV Permanent	USIT-E	Yes	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	137	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	177	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	146	us
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
USSP	Ultrasonic Service	USIT-E	IBC	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	31.88	us
WINE	Window End Time	USIT-E	71.88	us

ONE

IBC SLG Composite

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[1]:Up	Up	2092.28 ft	2419.13 ft	18-May-2019 10:34:52 AM	18-May-2019 10:39:37 AM	ON	1.80 ft	Yes

All depths are referenced to toolstring zero

Log






Company:Crestone Peak Resources and Operating LLC

Well:Echeverria 2D-2H-D267

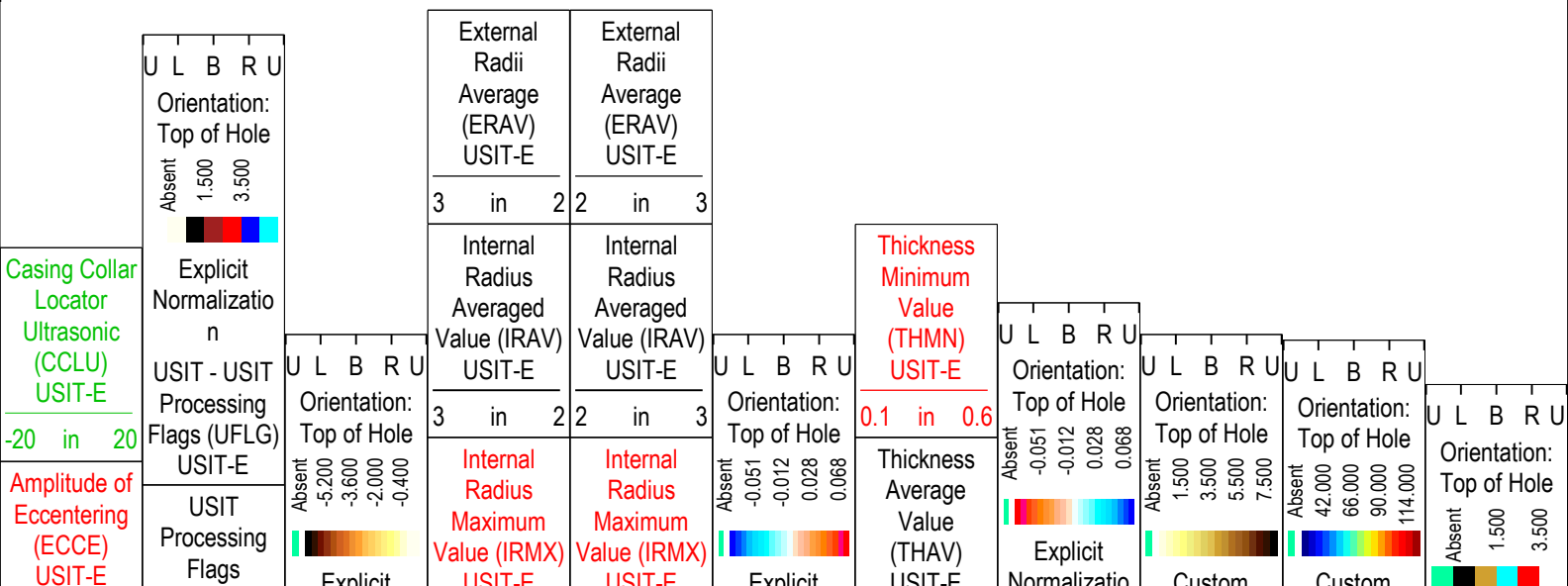
ONE: Log[1]:Up:S010

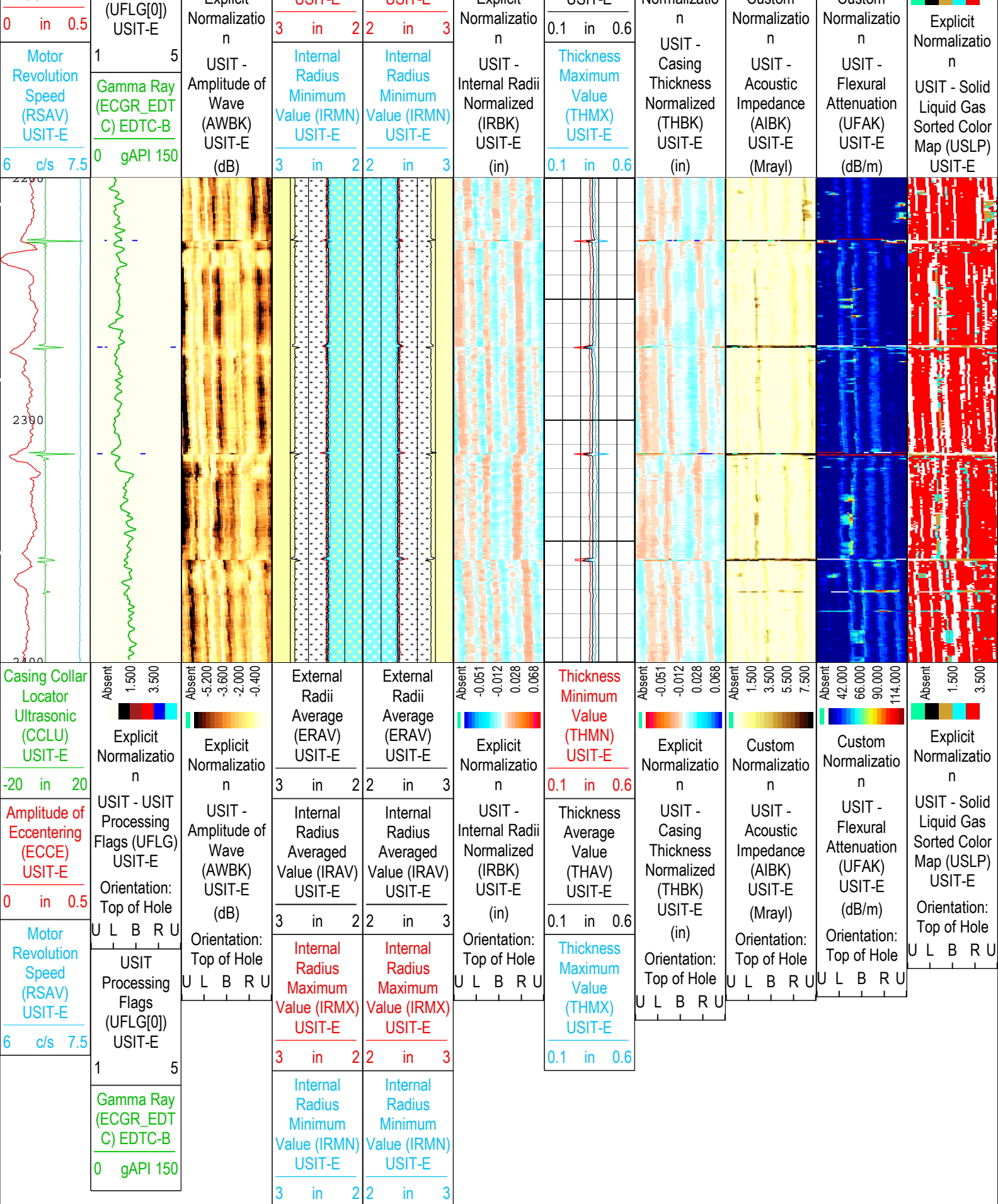
Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 19-May-2019 16:18:33

USIT Processing Flags (UFLG[0]) USIT-E

- 1 - UFLG 1 Value within [0.0 - 1.5] - :  UTIM Error
- 2 - UFLG 2 Value within [1.5 - 2.5] - :  Pulse Origin Not Detected
- 3 - UFLG 3 Value within [2.5 - 3.5] - :  WINLEN Error
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :  Casing Thickness Error
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :  Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)





TIME_1900 - Time Marked every 60.00 (s)

USIT Processing Flags (UFLG[0]) USIT-E

- 1 - UFLG 1 Value within [0.0 - 1.5] - :

2 - UFLG 2 Value within [1.5 - 2.5] - :

3 - UFLG 3 Value within [2.5 - 3.5] - :
- UTIM Error

Pulse Origin Not Detected

WINLEN Error

4 - UFLG 4	UFLG 5	UFLG 6	Value within [2.5 - 3.5] - :	<div></div> Wireline Error
5 - UFLG 7	UFLG 8	UFLG 9	Value within [6.5 - 10] - :	<div></div> Casing Thickness Error
				<div></div> Loop Processing Error

Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth

Creation Date: 19-May-2019 16:18:33

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CBLO	Casing Bottom (Logger)	WLSESSION	7018	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	10.5	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	0.08	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	FreePipe Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.18	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.15	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.68	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	1.77	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.78	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	13.5	2200	2338
BS	8.5	2338	2400
All depth are actual.			

Tool Control Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	120	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	

IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	137	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	177	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	146	us
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	31.88	us
WINE	Window End Time	USIT-E	71.88	us

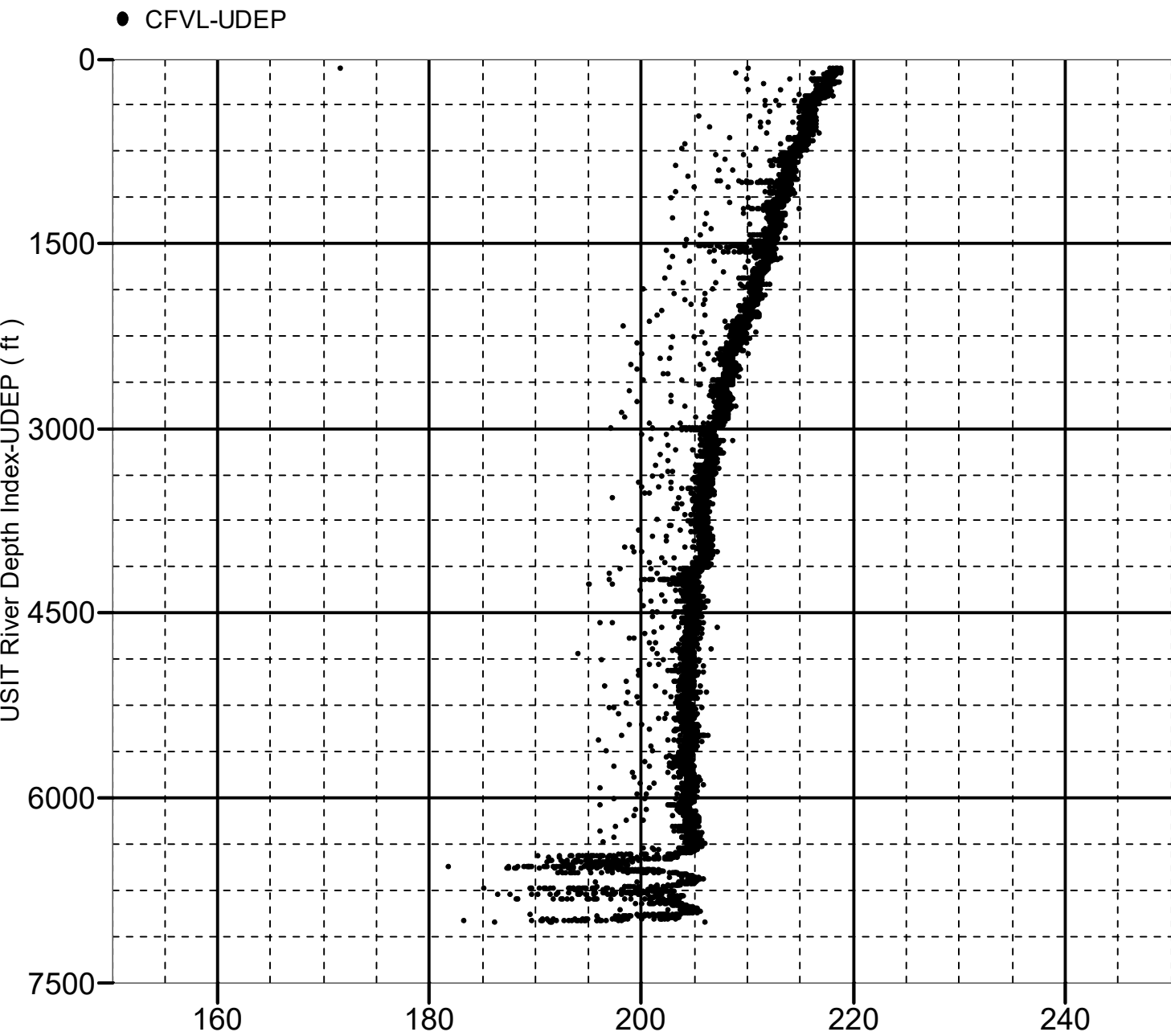
XYZ

Company:Crestone Peak Resources and Operating LLC Well:Echeverria 2D-2H-D267
ONE: Log[4]:Up:S010

Fluid Acoustic Slowness vs Depth

2D Cross Plot

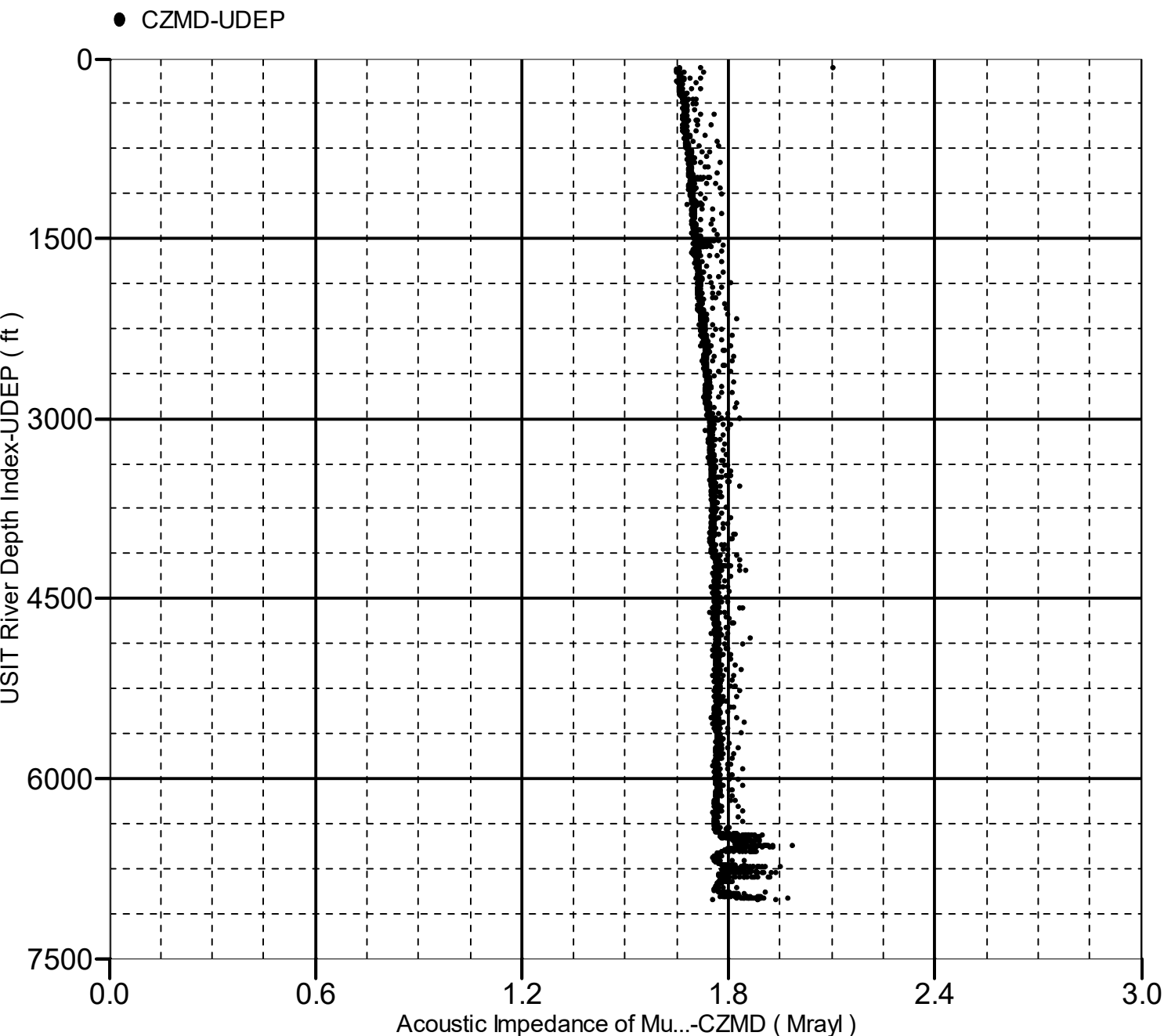
Index Range: From 7019.50 to 70.00 ft



Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 7019.50 to 70.00 ft



Company:	Crestone Peak Resources and Operating LLC	Schlumberger
Well:	Echeverria 2D-2H-D267	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
Isolation Scanner		
Cement Evaluation		
Gamma Ray - CCL Log		