

Company: Crestone Peak Resources Operating LLC

Well: Melbon Ranch 4K-17H-M265

Field: Wattenburg

County: Weld State: Colorado

Isolation Scanner
Cement Evaluation
Gamma Ray - CCL Log

County: Weld
Field: Wattenburg
Location: SWSW S17 T2N R65W
Well: Melbon Ranch 4K-17H-M265
Company: Crestone Peak Resources Operating LLC

Location:	SWSW S17 T2N R65W	Elev.:	K.B.	4979.00 ft
	SHL: 1195 FSL & 219 FWL		G.L.	4956.00 ft
	Lat/Long: 40.134632,-104.696638		D.F.	4978.00 ft
	Permanent Datum:	Ground Level	Elev.:	4956.00 f
Log Measured From:		Kelly Bushing	23.00 ft	above Perm.Datum
Drilling Measured From:		Kelly Bushing		
API Serial No.	Section:	Township:	Range:	
05-123-47755	17	2N	65W	

Logging Date	25-Nov-2018		
Run Number	One		
Depth Driller	12113.00 ft		
Schlumberger Depth	12113.00 ft		
Bottom Log Interval	6813.00 ft		
Top Log Interval	85.00 ft		
Casing Fluid Type	WBM		
Salinity			
Density	8.4 lbm/gal		
Fluid Level	85.00 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.50 in		
From	2429.00 ft		
To	12113.00 ft		
Casing/Tubing Size	5.5 in		
Weight	20 lbm/ft		
Grade	N/A		
From	0.00 ft		
To	12113.00 ft		
Max Recorded Temperatures	156 degF	195	
Logger on Bottom	26-Nov-2018	14:09:00	
Unit Number	9102	Fort Morgan	
Recorded By	A. Blochowicz/L. Lewis/ V. Kadrisani		
Witnessed By	Keith Kerzhisnik		

Disclaimer

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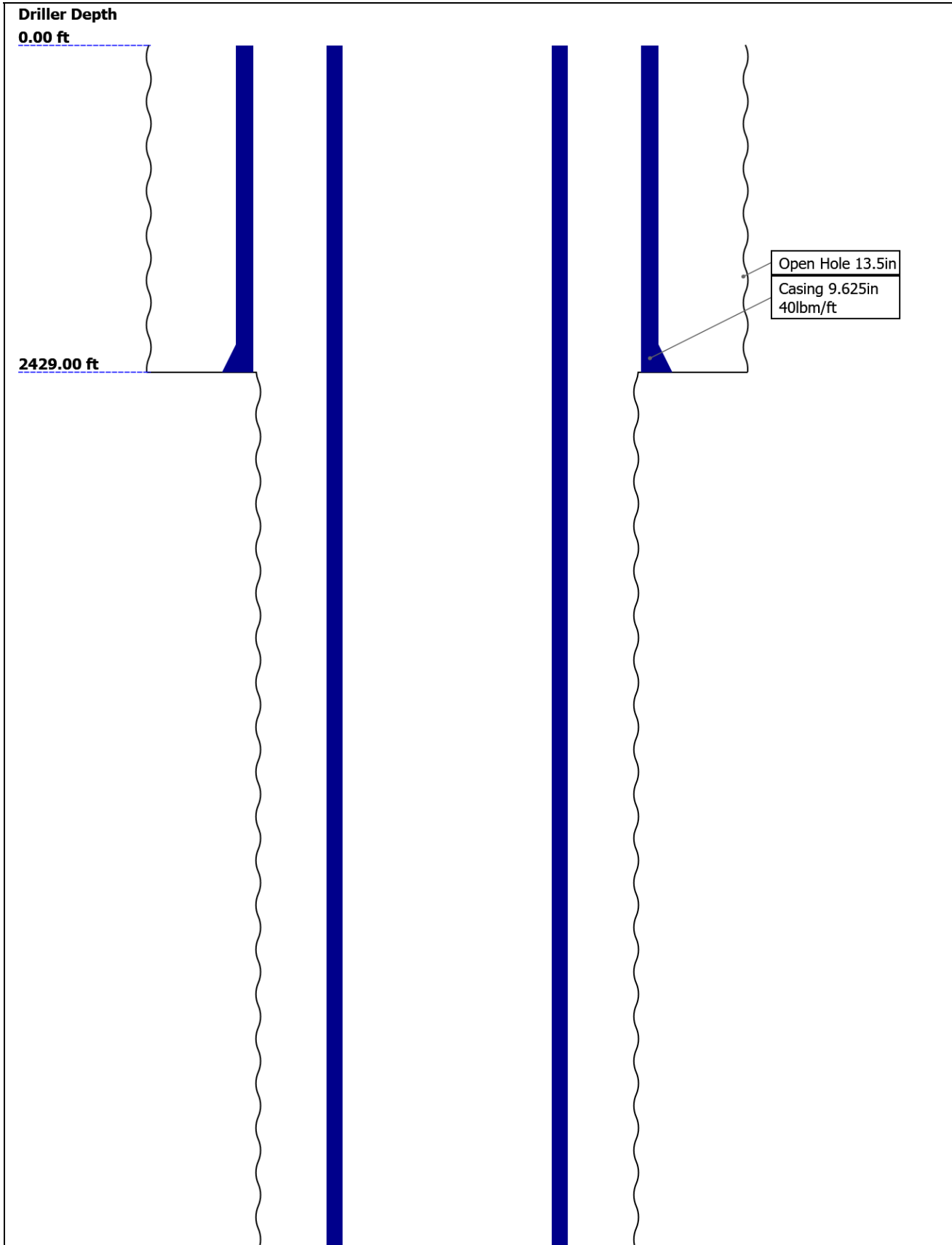
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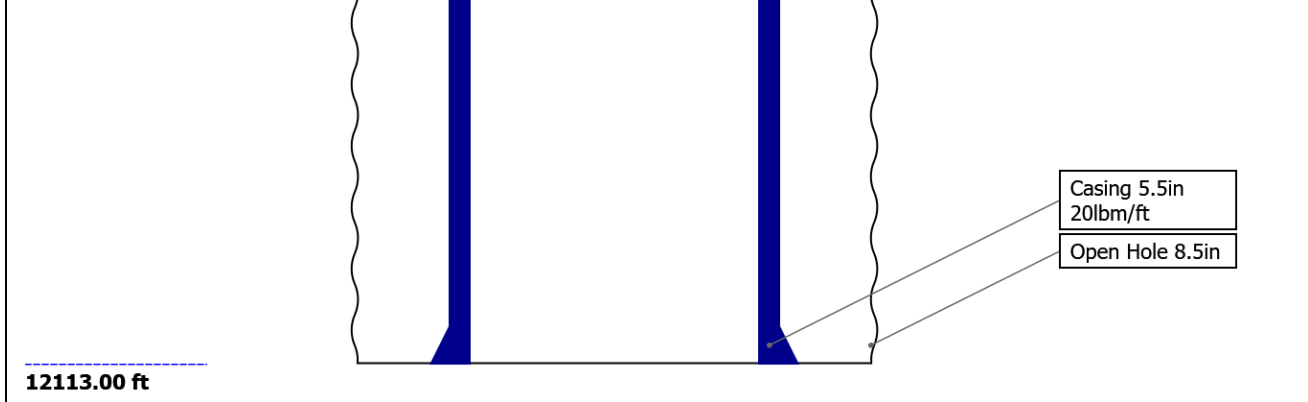
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Well Sketch

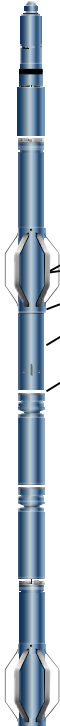


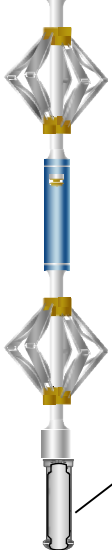


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	13.5	8.5				
Top Driller (ft)	0	2429				
Top Logger (ft)	0	2429				
Bottom Driller (ft)	2429	12113				
Bottom Logger (ft)	2429	12113				
Casing						
Size (in)	9.625	5.5				
Weight (lbm/ft)	40	20				
Inner Diameter (in)	8.835	4.778				
Grade	N/A	N/A				
Top Driller (ft)	0	0				
Top Logger (ft)	0	0				
Bottom Driller (ft)	2429	12113				
Bottom Logger (ft)	2429	12113				

Remarks and Equipment Summary

One: Toolstring			One: Remarks	
<div><div><div>Equip nameLength</div><div>LEH-QT:230.73</div><div>493</div><div>LEH-QT:2493</div><div>EDTC-B:827.24</div><div>424</div><div>EDTH-B:8432</div><div>EDTG-A:77303</div><div>EDTC-B:8424</div><div>AH-184[2]20.74</div><div>AH-184[1]18.74</div><div>USIT-E:1716.74</div><div>25</div><div>ECH-MFA:1991</div><div>USAC-A:1725</div><div>USIT-A:10</div></div><div></div><div><div>MP nameOffset</div><div>CTEM23.74</div><div>ACCZ0.00</div><div>HV0.00</div><div>Gamma21.87</div><div>Ray</div><div>TelStatu20.74</div><div>s</div></div></div>	Toolstring ran as per tool sketch and client logging program.		Tool centralized with 5.25" Gemcos, inline centralizers w/ small hole and Houma kit.	
	Lead: 12.5 ppg Tail: 13.5 ppg Spacer: 12 ppg		High deviation (29 deg) near KOP affects local data quality.	
	Thank you for choosing Schlumberger!			

USIS-A:18 20 USSC-B:79 9 IBCS-A:80 0 FAR-SENS OR:4165 IBC-TX NEAR-SEN SOR:2115 IBC-TX USI-SENS OR:3172 IBC-TX EMITTER- SENSOR:4 215 IBC-TX	 <p>USI Sen 0.84 sor Head Te nsion</p> <p>TOOL_ZERO</p> <p>Lengths are in ft Maximum Outer Diameter = 6.250 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-B		
Serial Number	5822		
Calibration Date	14-Oct-2018		
Calibrator Serial Number	57		
Calibration Cable Type	7-46A XS		
Wheel Correction 1	-2		
Wheel Correction 2	-2		
Tension Device			
Type	CMTD-B/A		
Serial Number	1106		
Calibration Date	19-Oct-2018		
Calibrator Serial Number	78135A		
Number of Calibration Points	10		
Calibration Root Mean Square Error	69		
Calibration Peak Error	116		
Logging Cable			
Type	7-46A-XS		
Serial Number			
Length	24000.00 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 procedures followed.	
Rig Up Length At Surface		IDW used as primary depth control method.	
Rig Up Length At Bottom		Z-chart used as secondary method.	
Rig Up Length Correction			

Stretch Correction6.82 ft

Tool Zero Check At Surface

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Log[4]:Up	6821.15	69.19

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 : 43.28m(142.01ft) to 52.94m(173.67ft)
MUD_N_FRP = 1.18
DFD = 1.01g/cm3(8.40lbm/gal)
CZMD median computed in free pipe normalization interval = 1.67 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 2018 SP2	8.2.104493.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[4]:Up	Up	69.19 ft	6821.15 ft	25-Nov-2018 2:09:55 PM	25-Nov-2018 3:45:28 PM	ON	6.82 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources Operating LLC	Well:Melbon Ranch 4K-17H-M265
	One: Log[4]: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: 27-Nov-2018 00:04:25

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

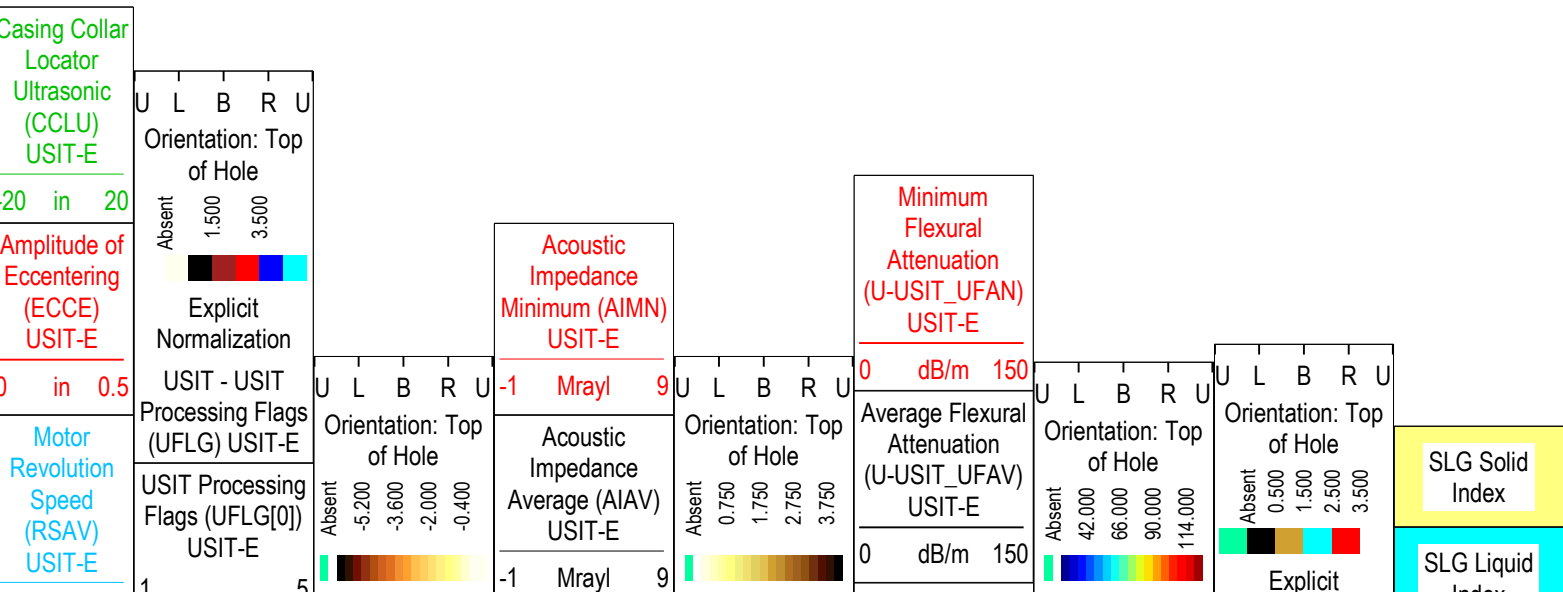
Pulse Origin Not Detected

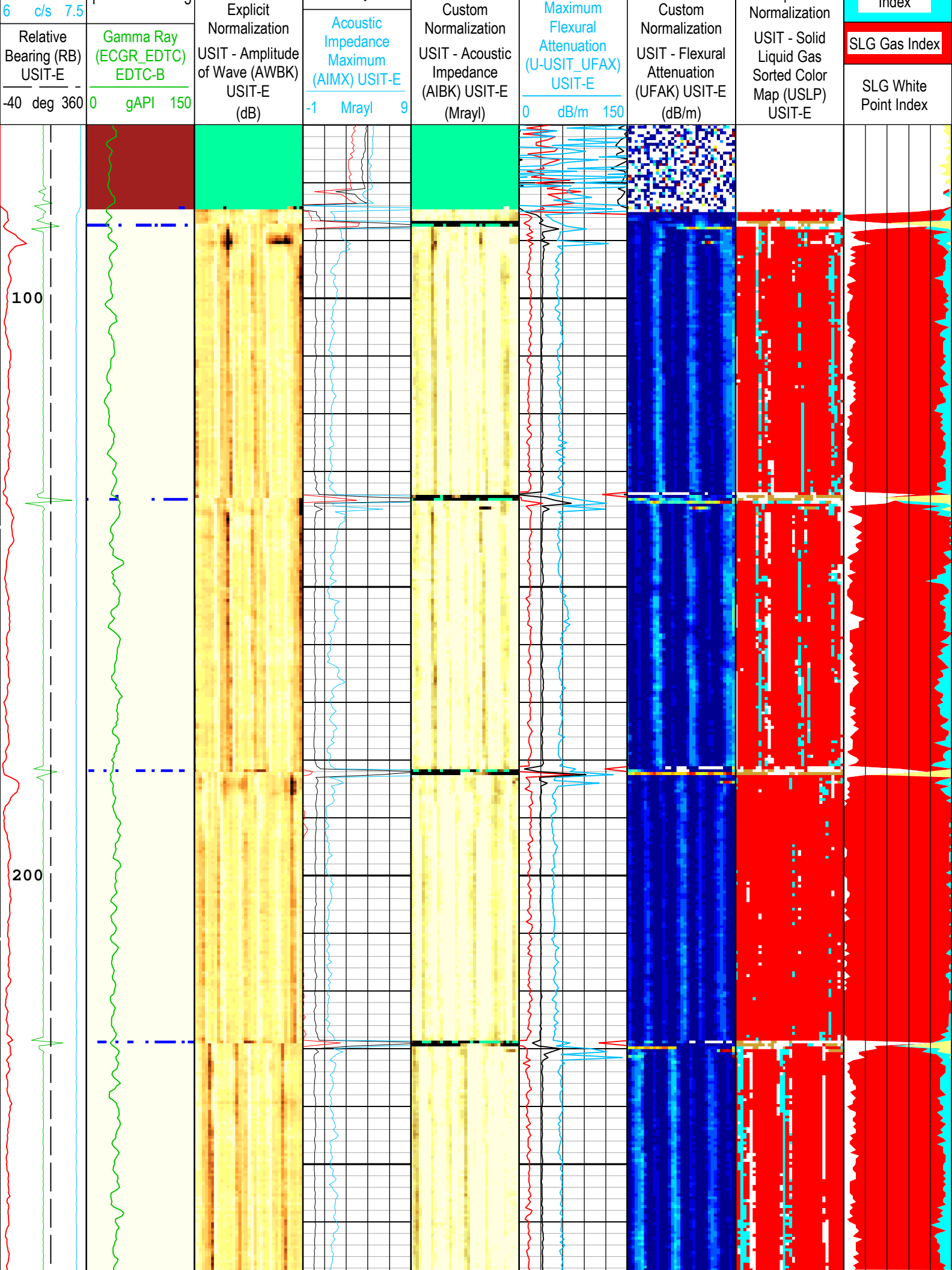
WINLEN Error

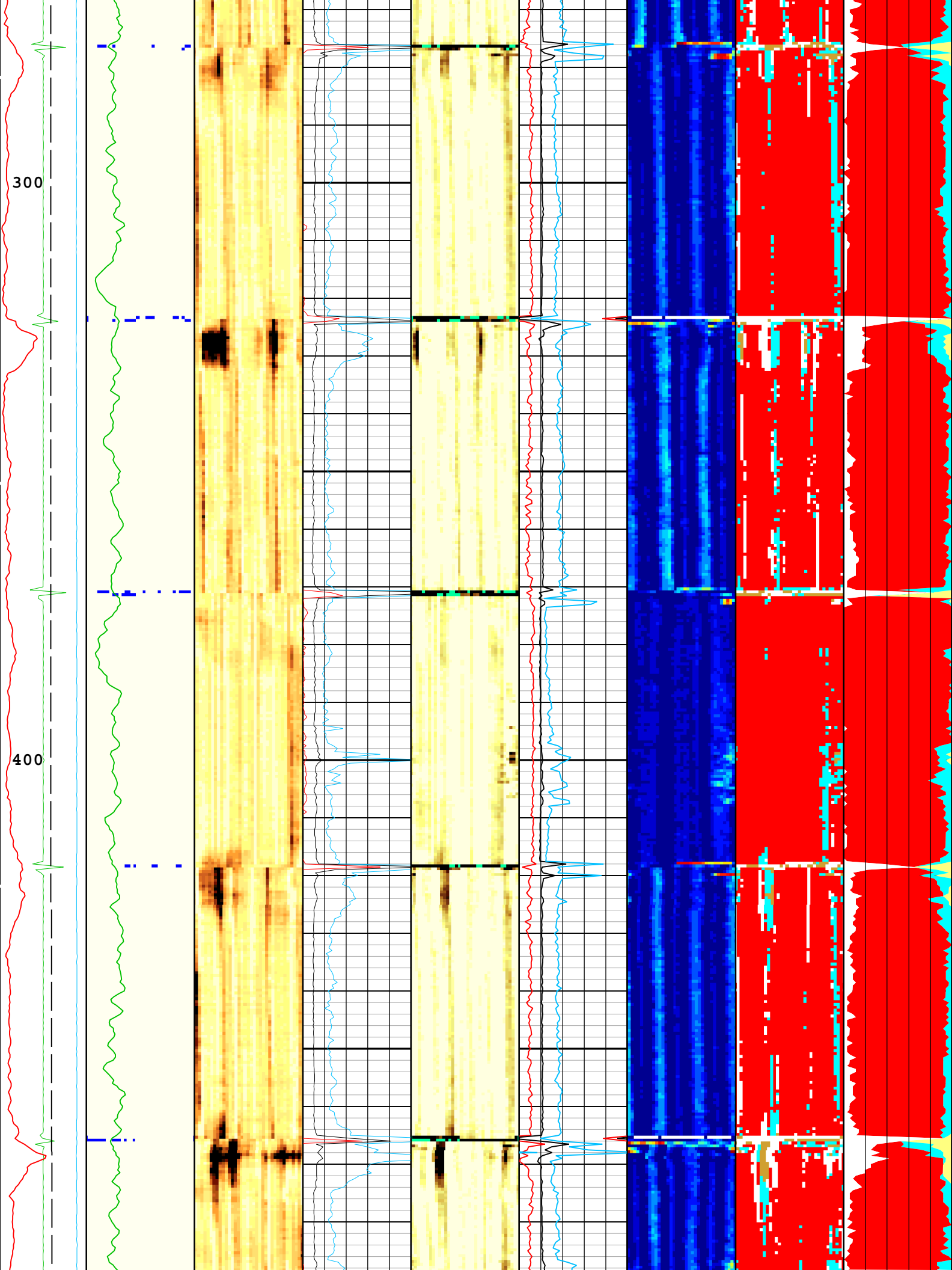
Casing Thickness Error

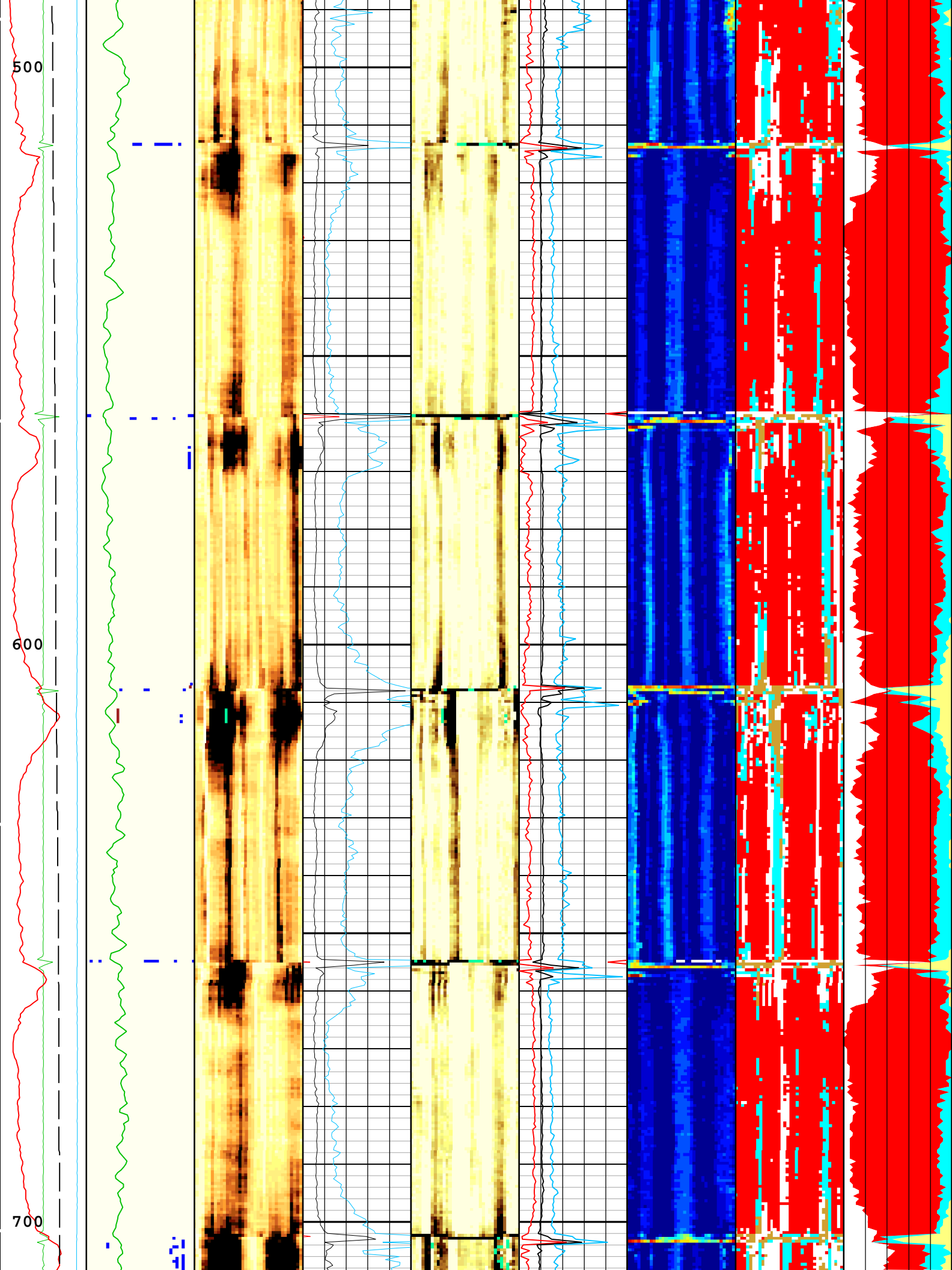
Loop Processing Error

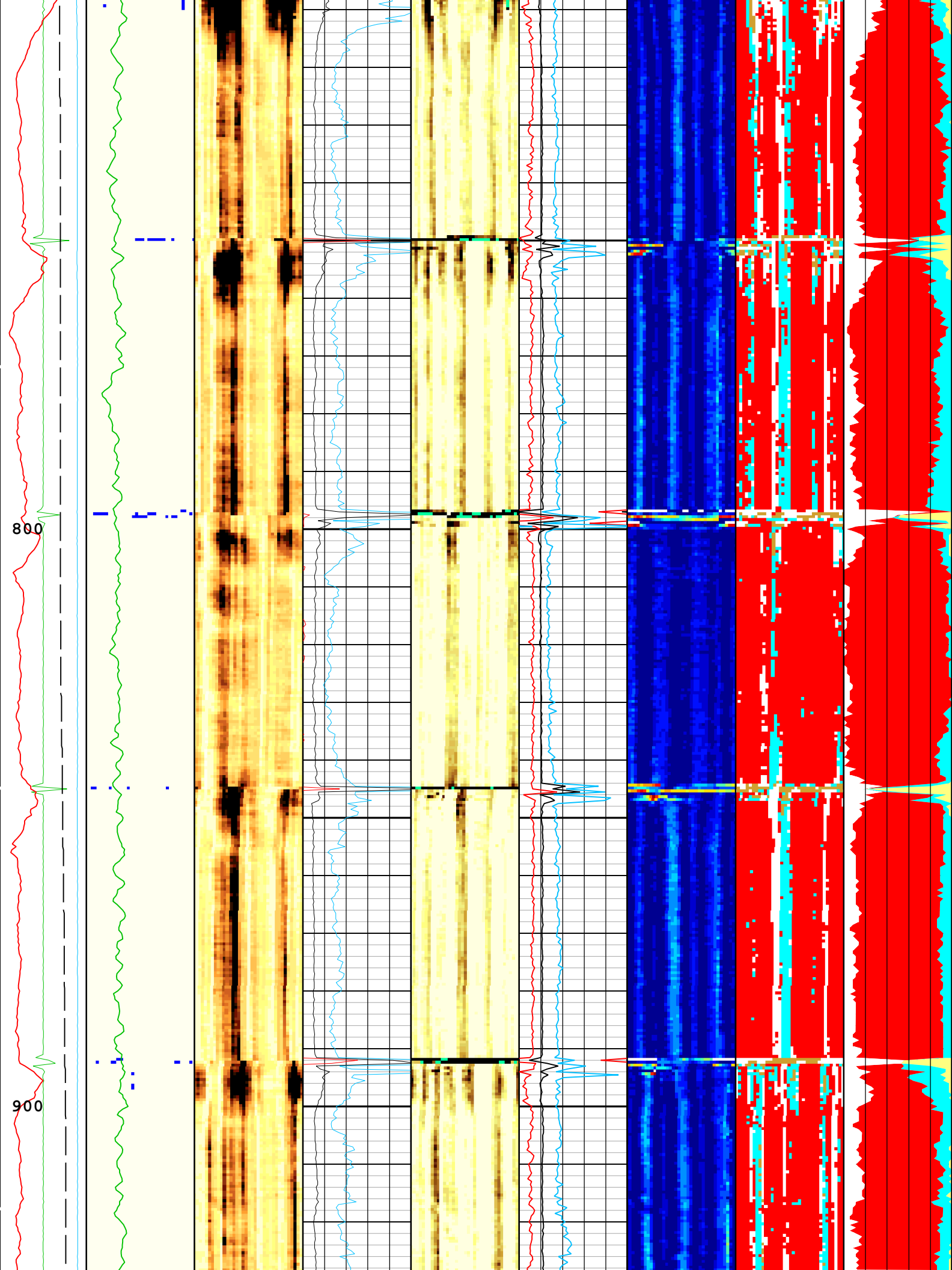
TIME_1900 - Time Marked every 60.00 (s)

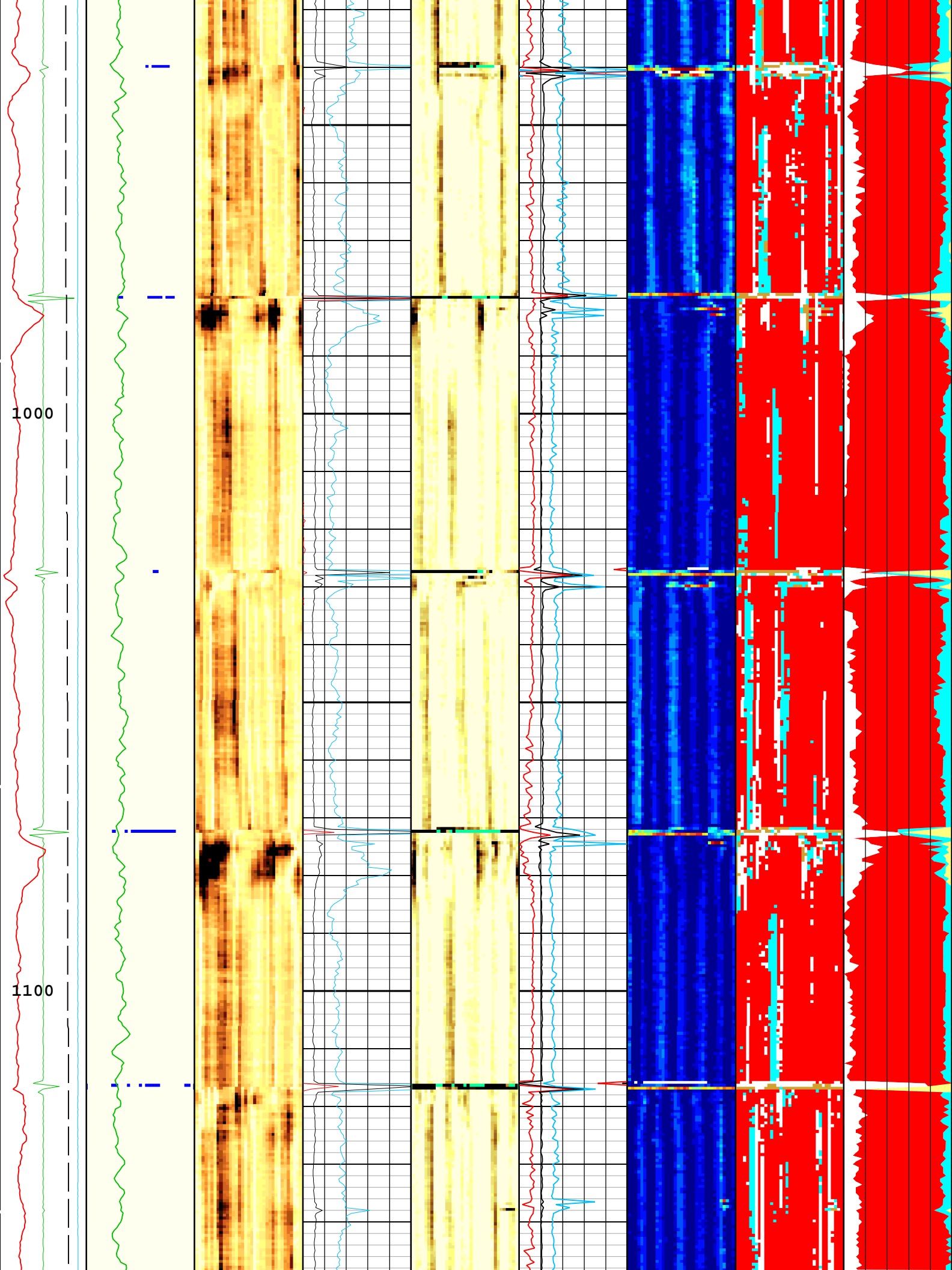


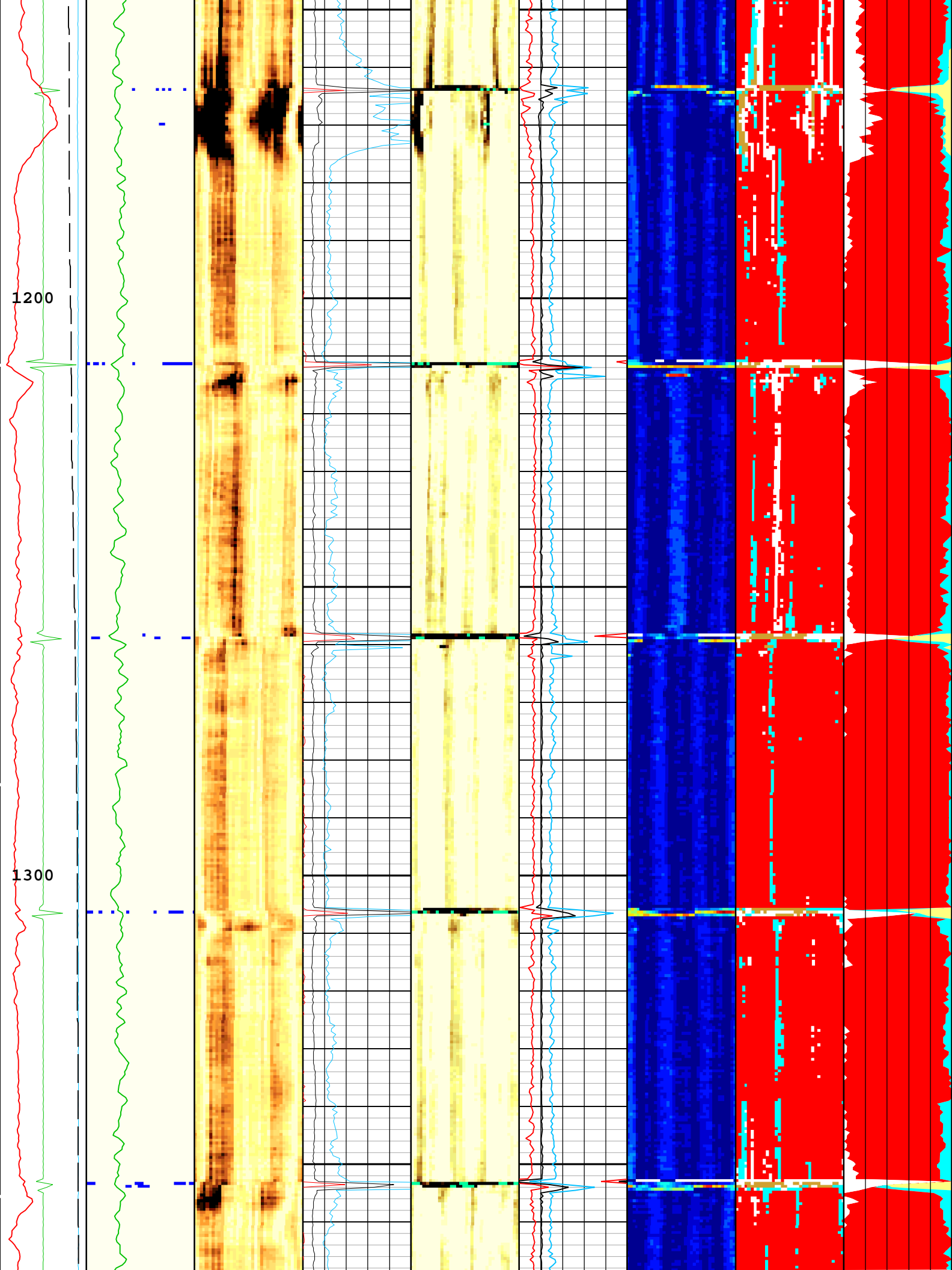


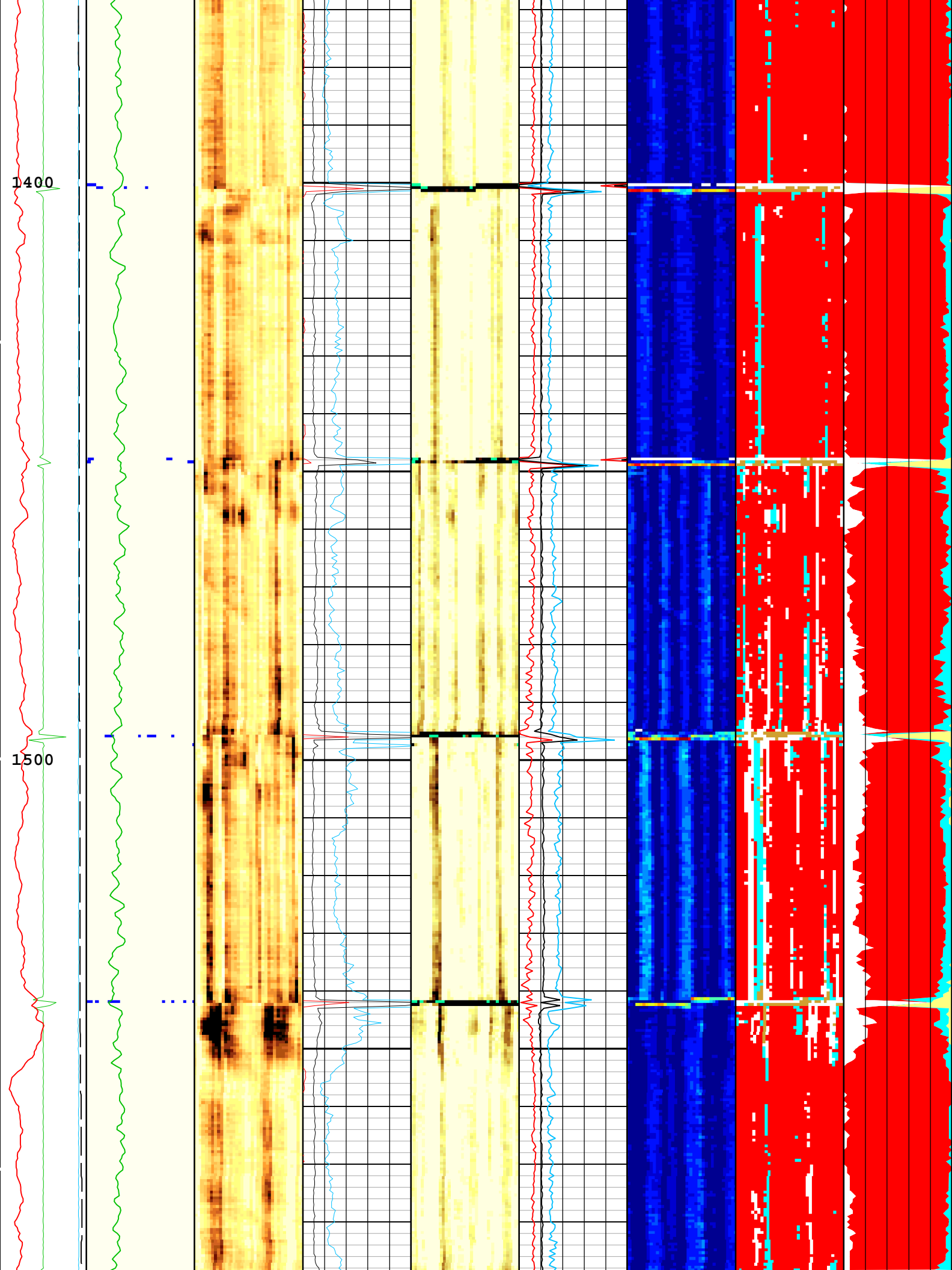


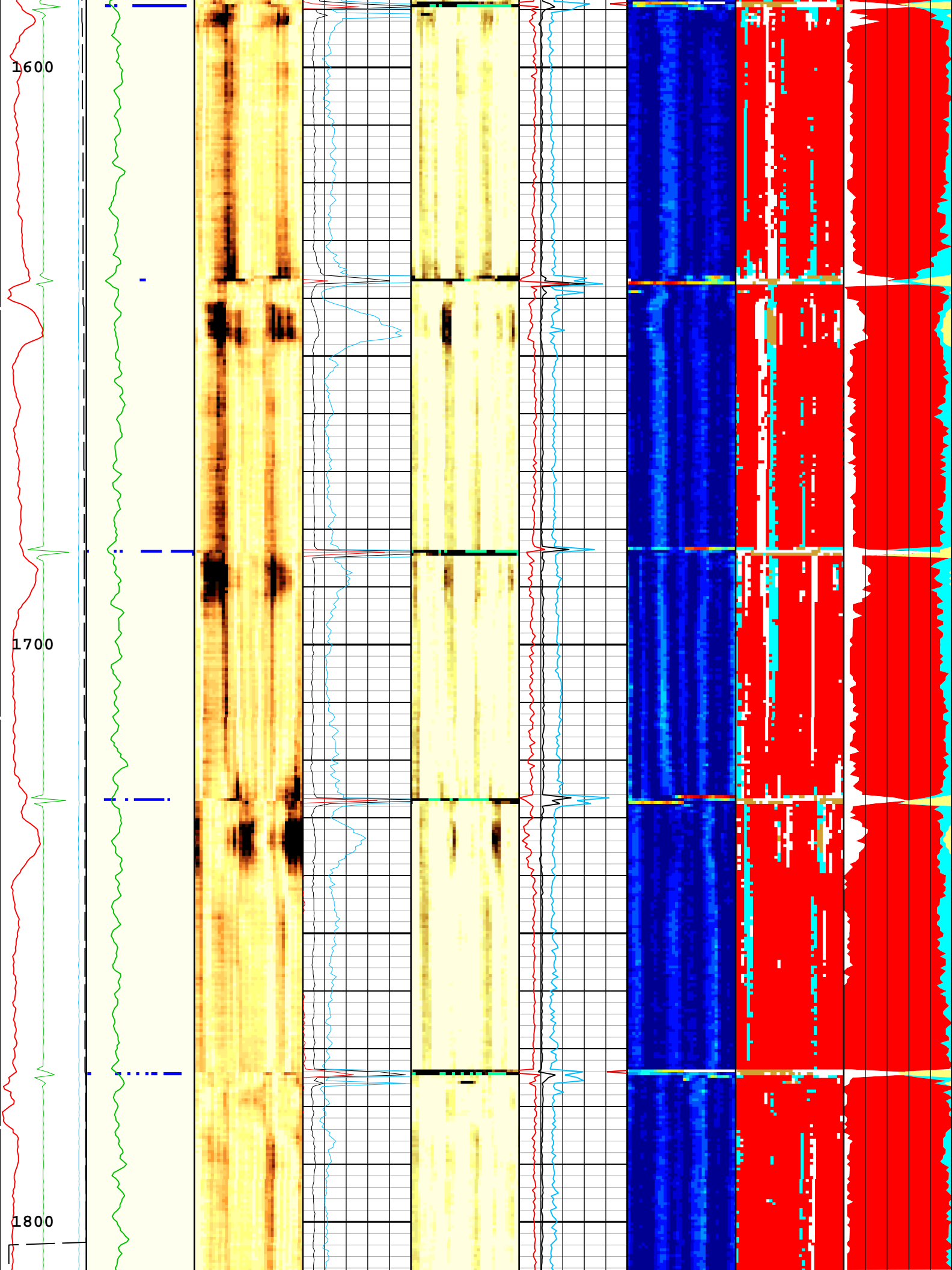


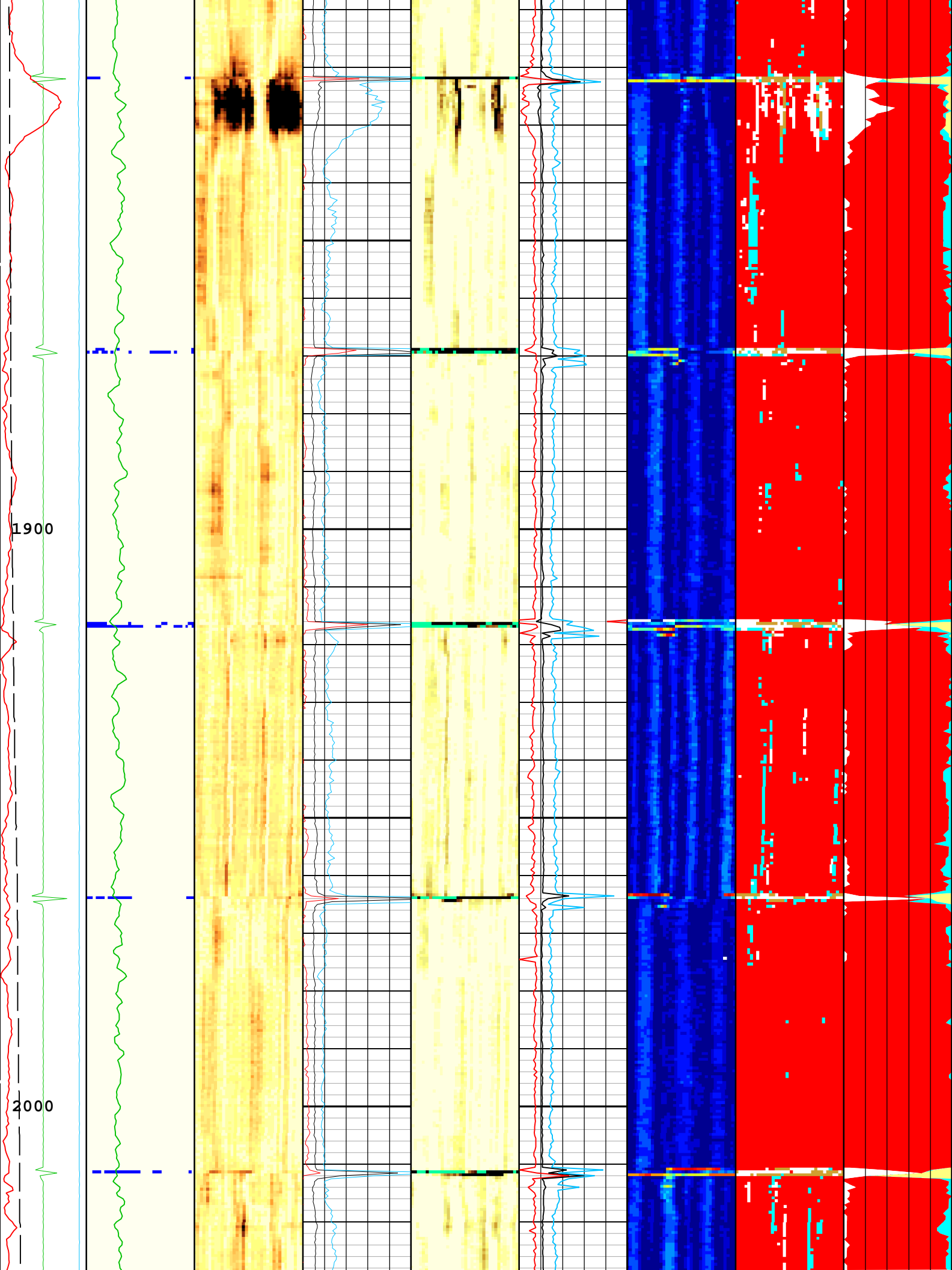


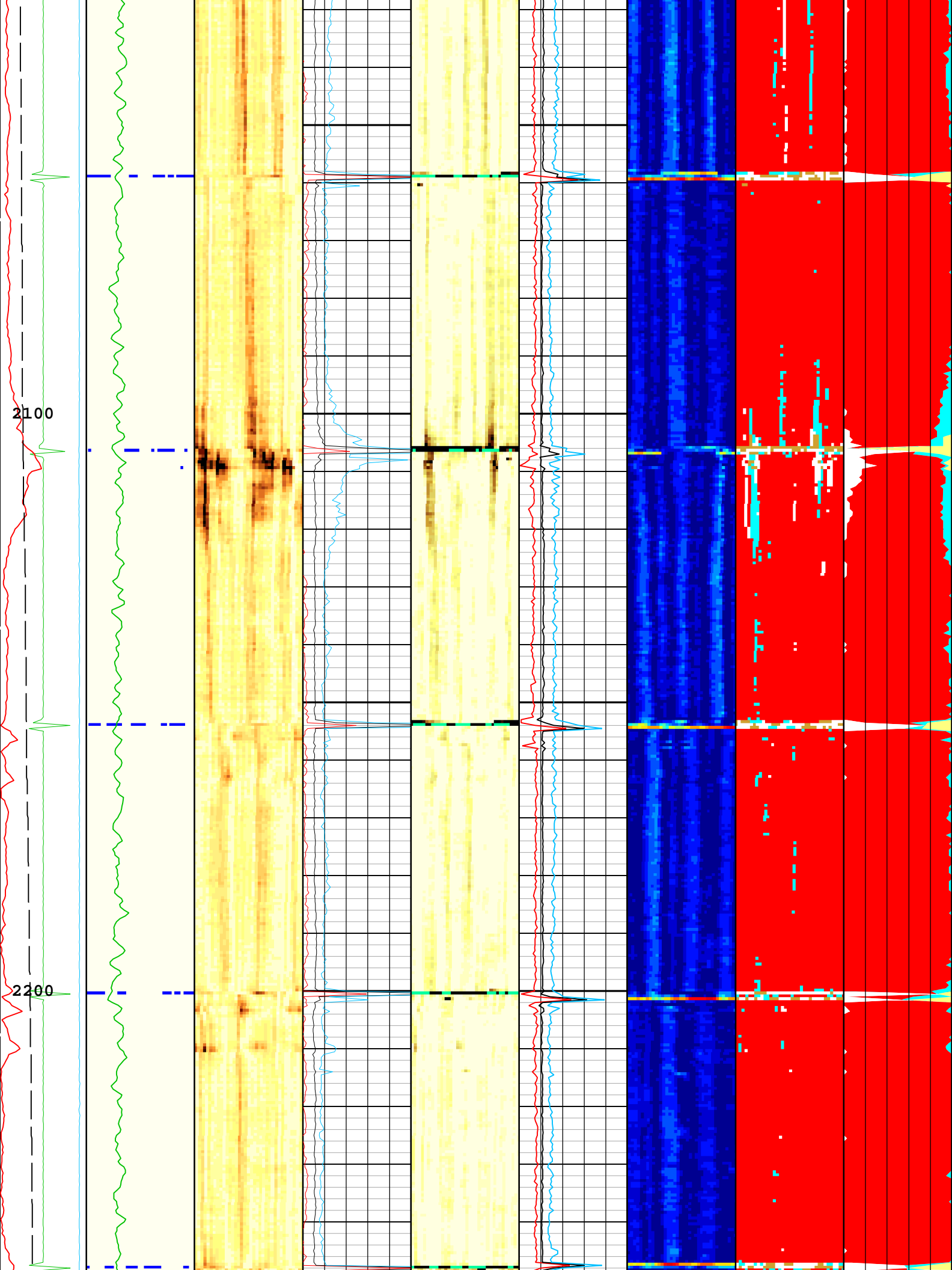


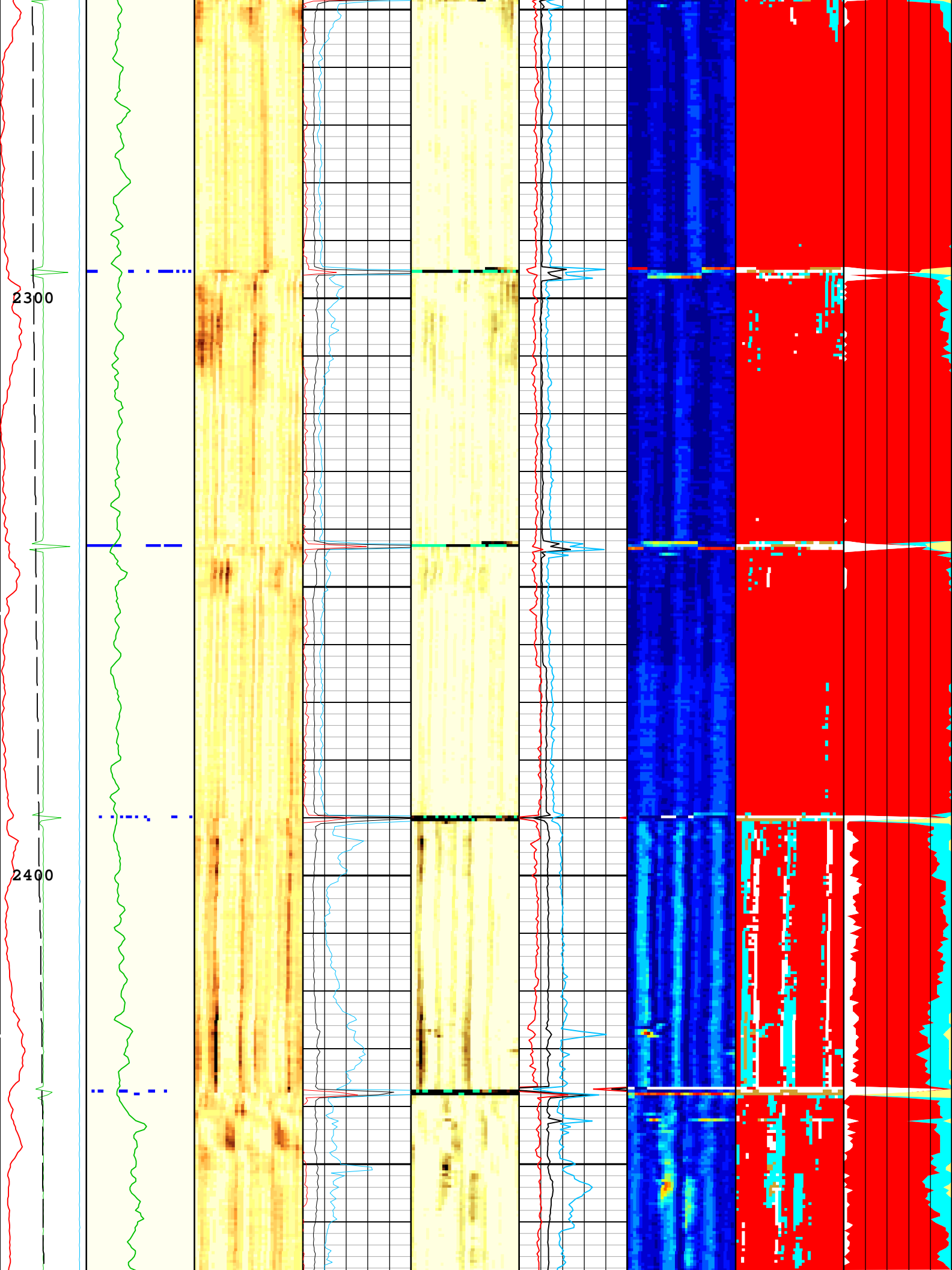


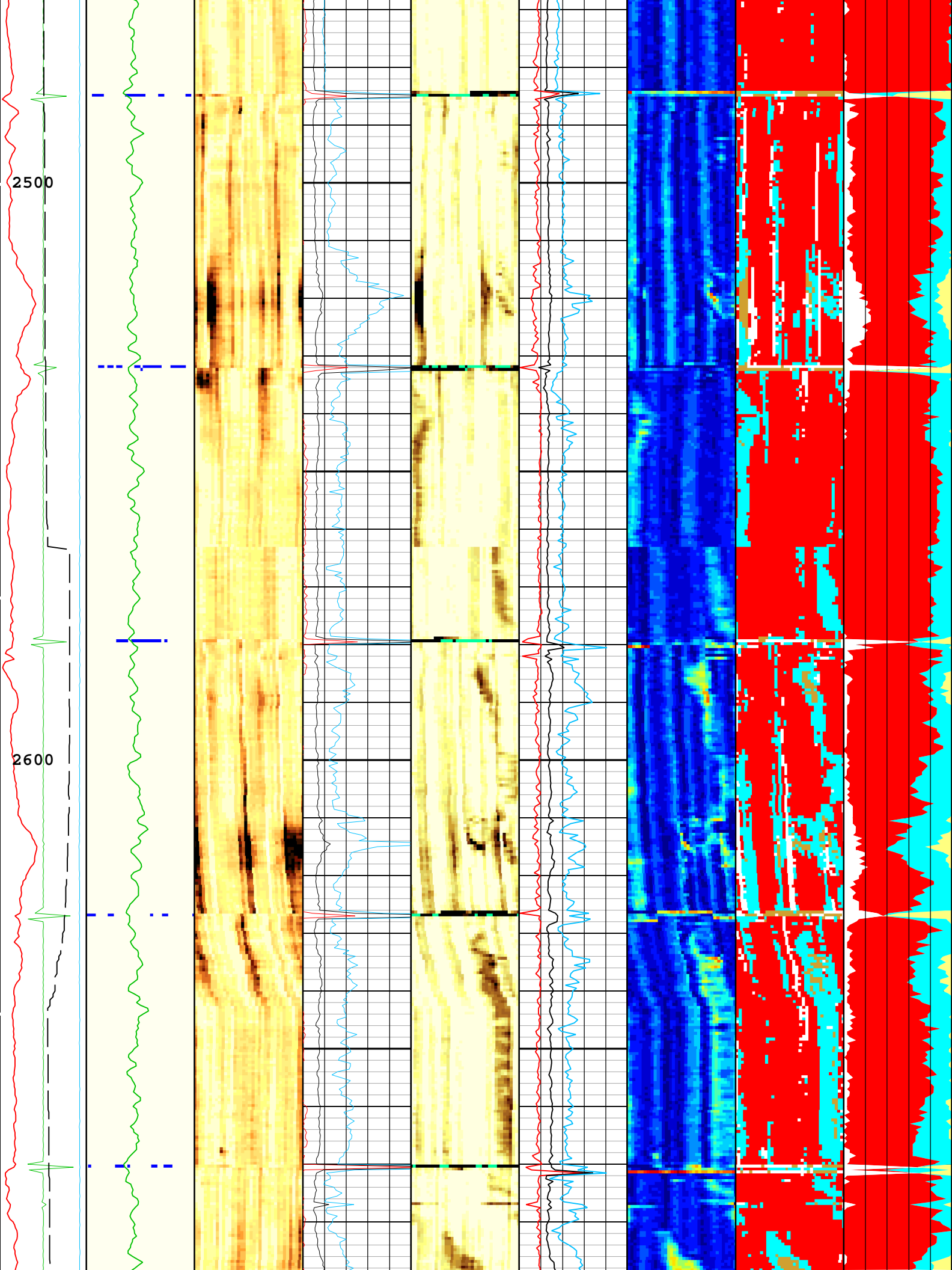


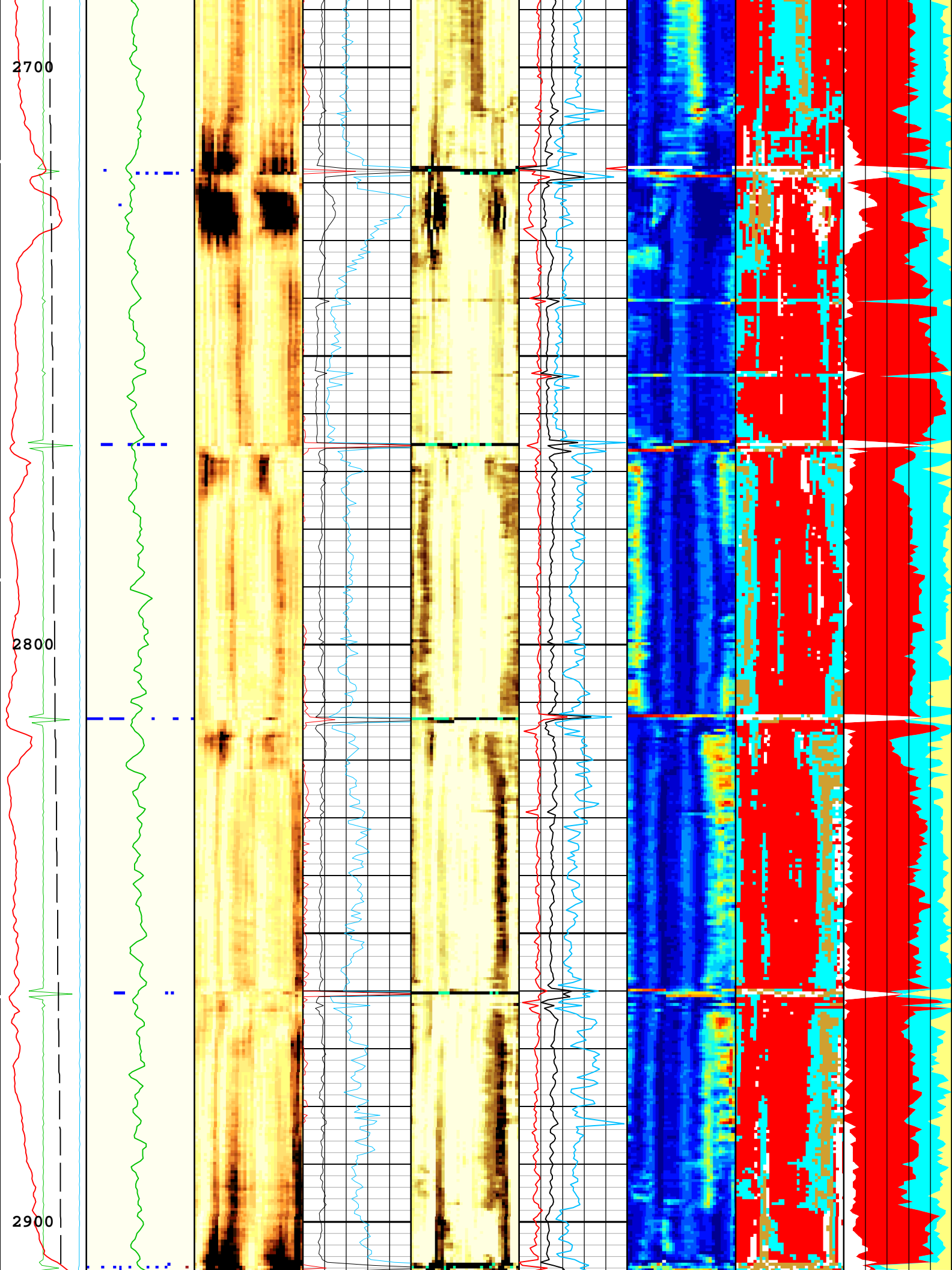


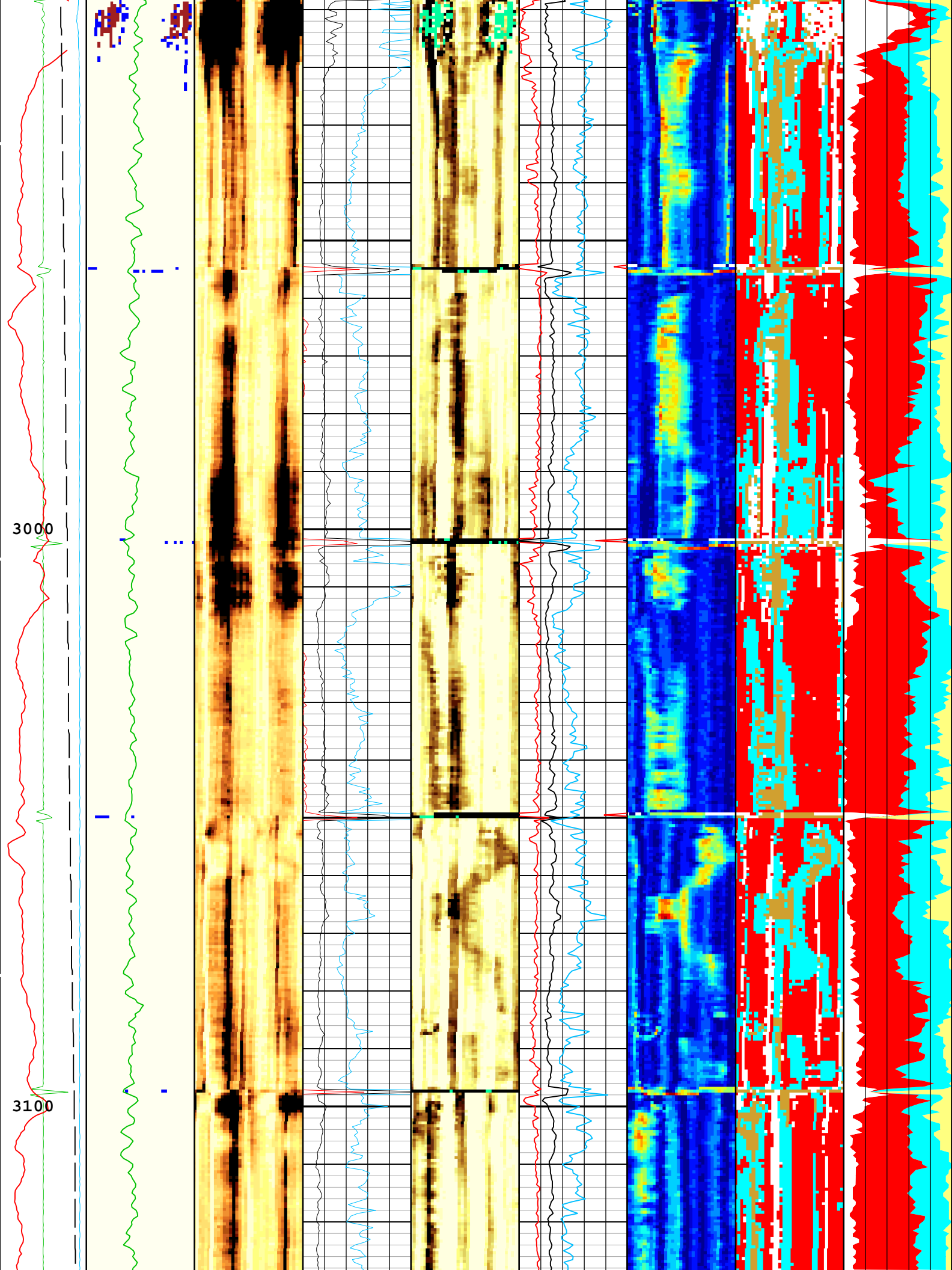


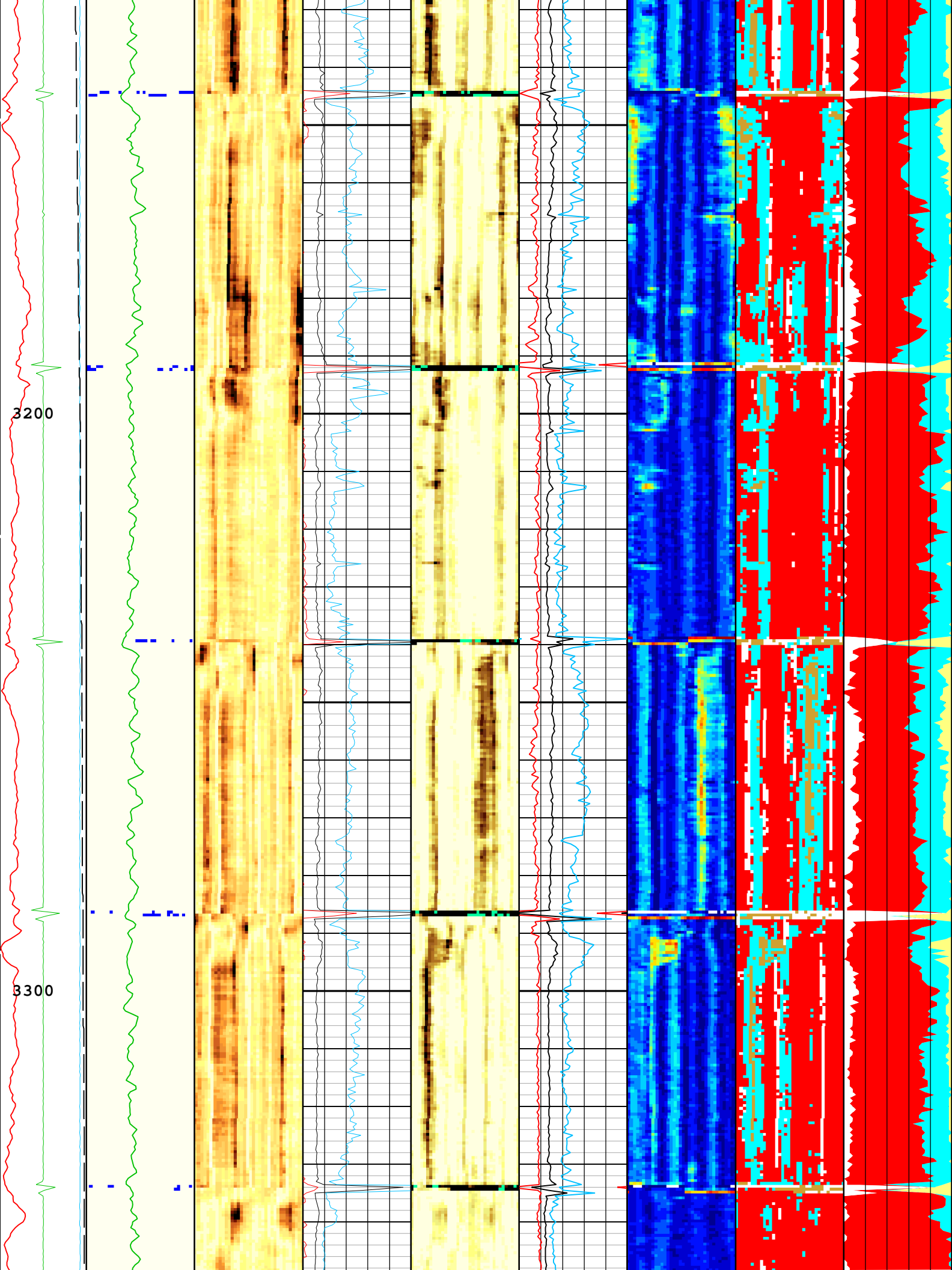


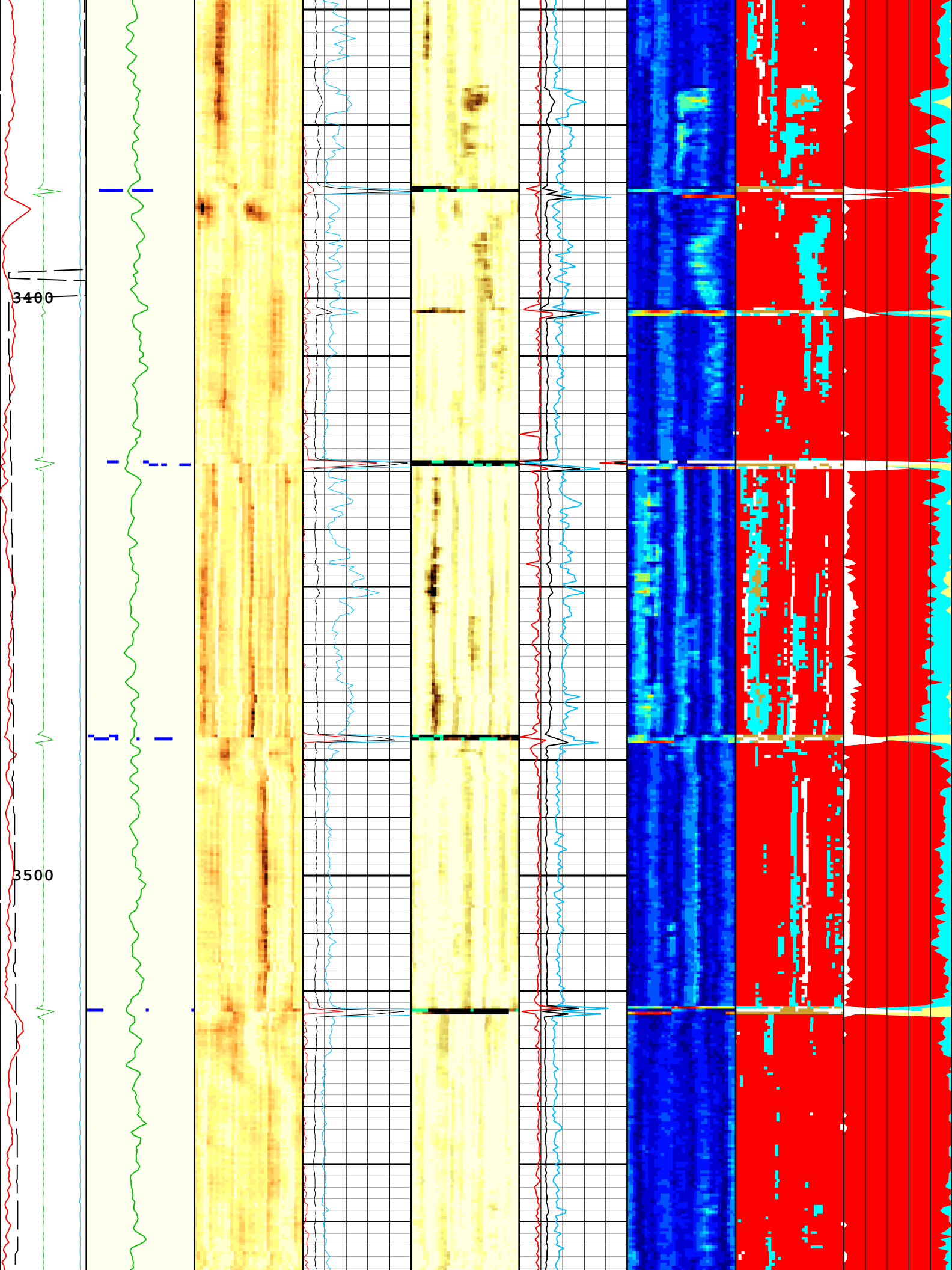


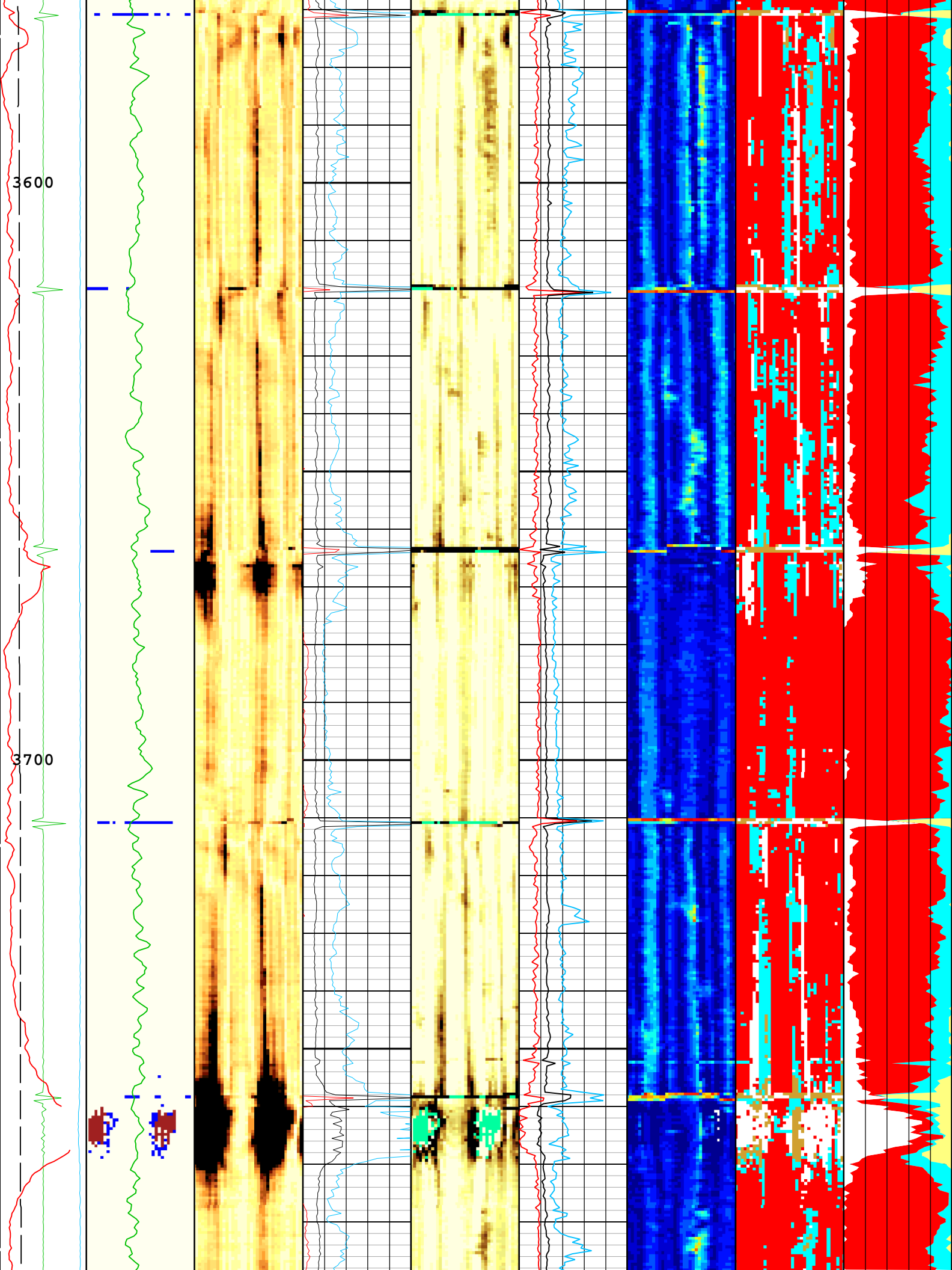


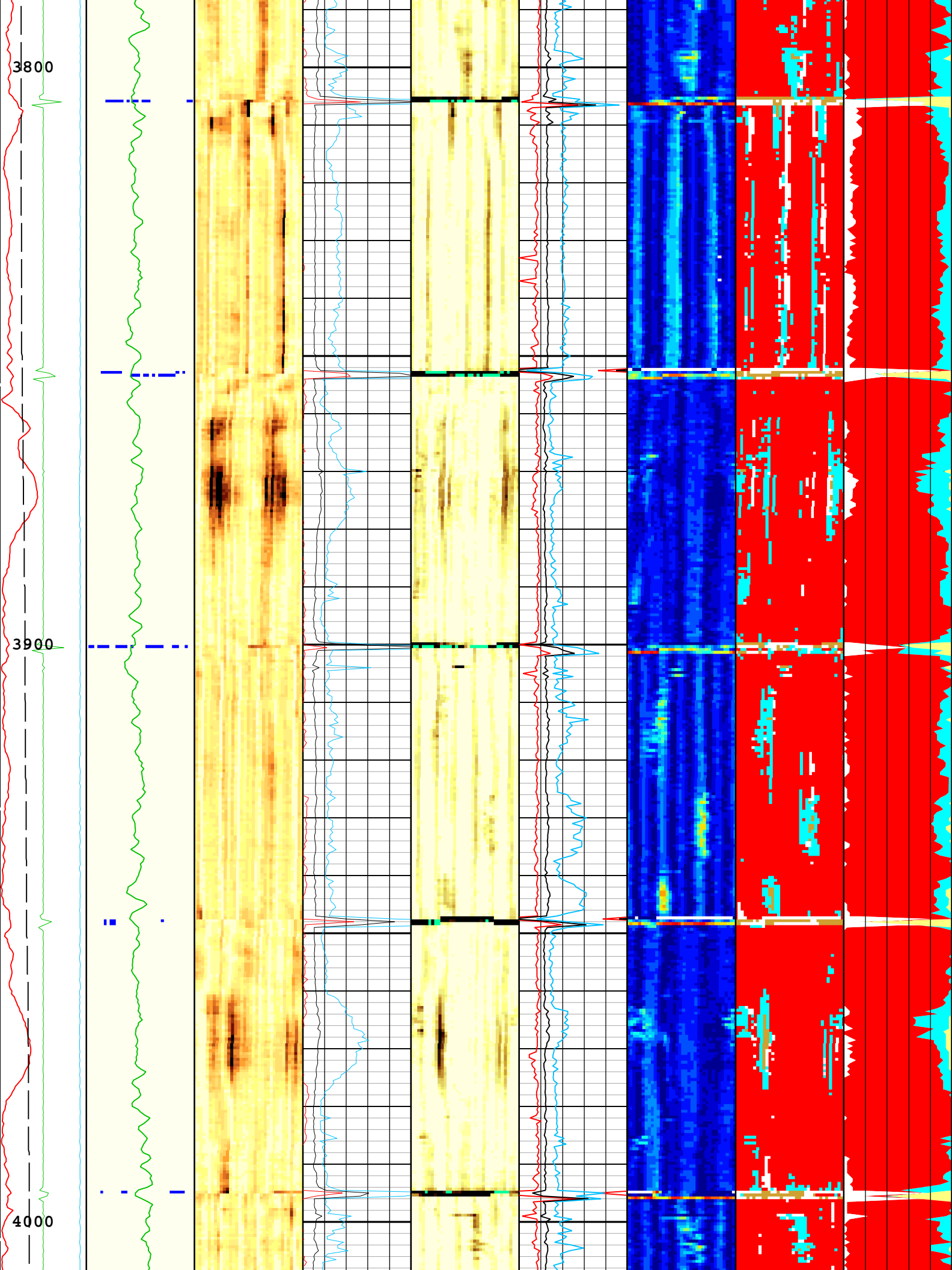


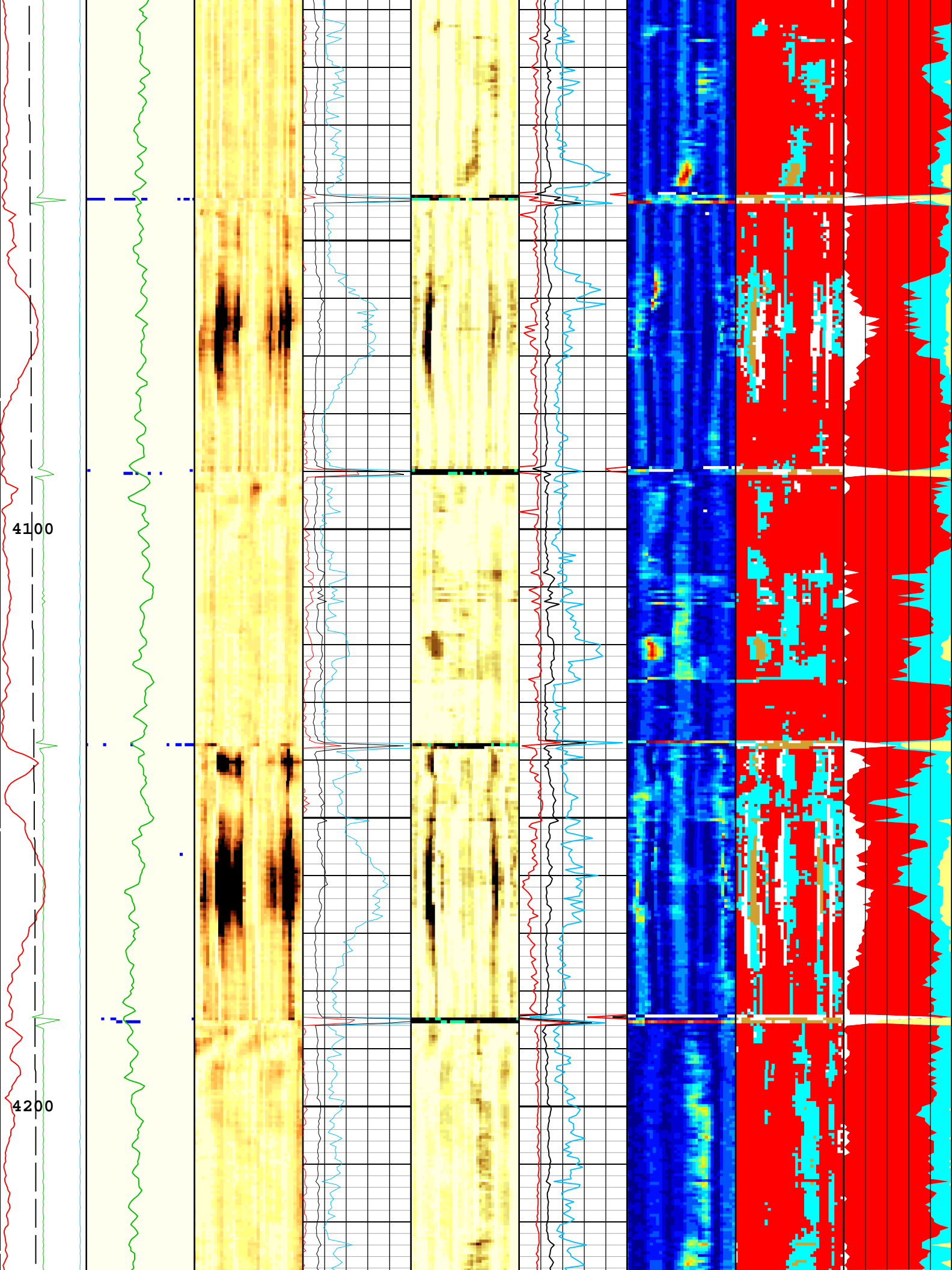


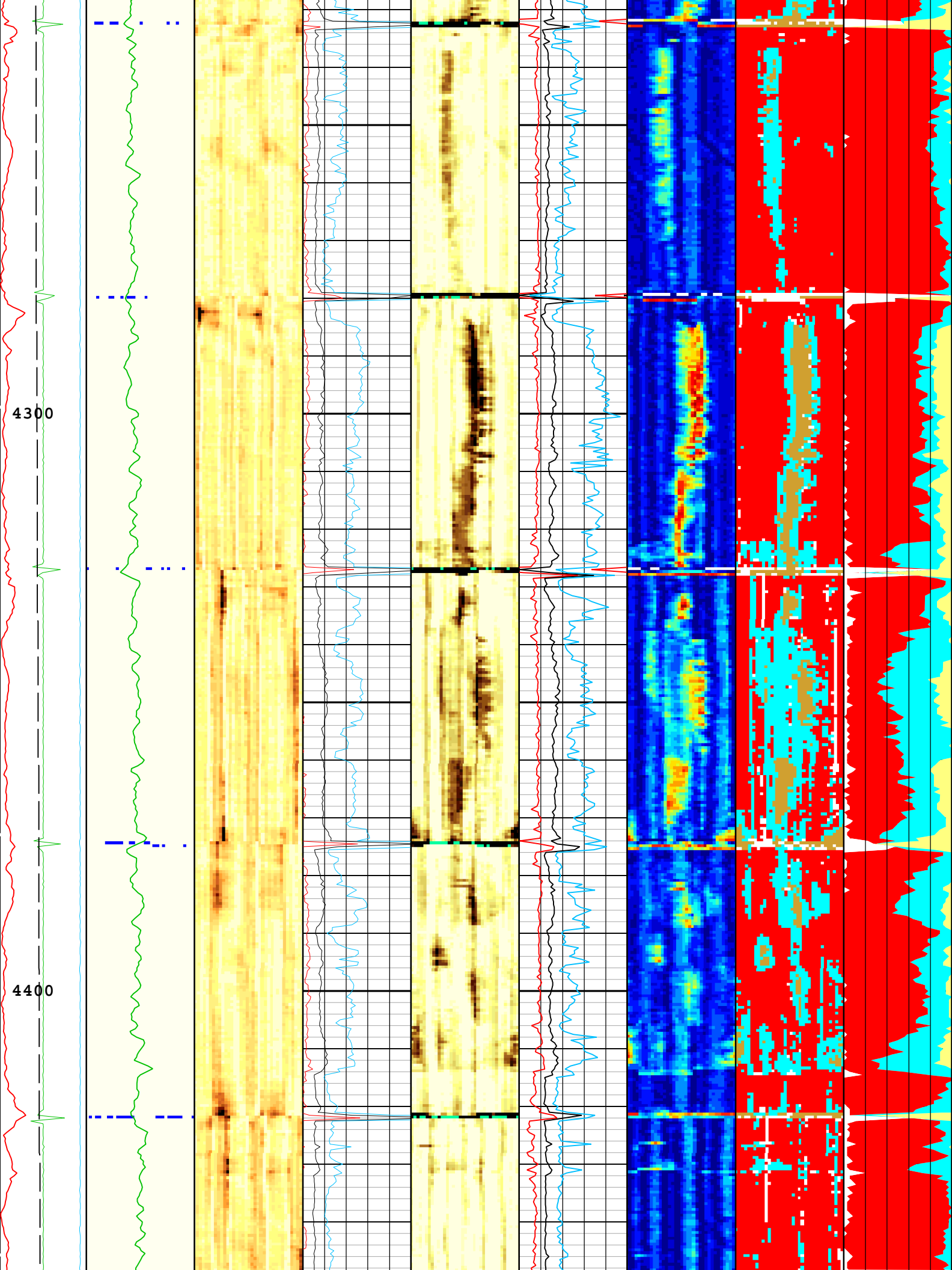


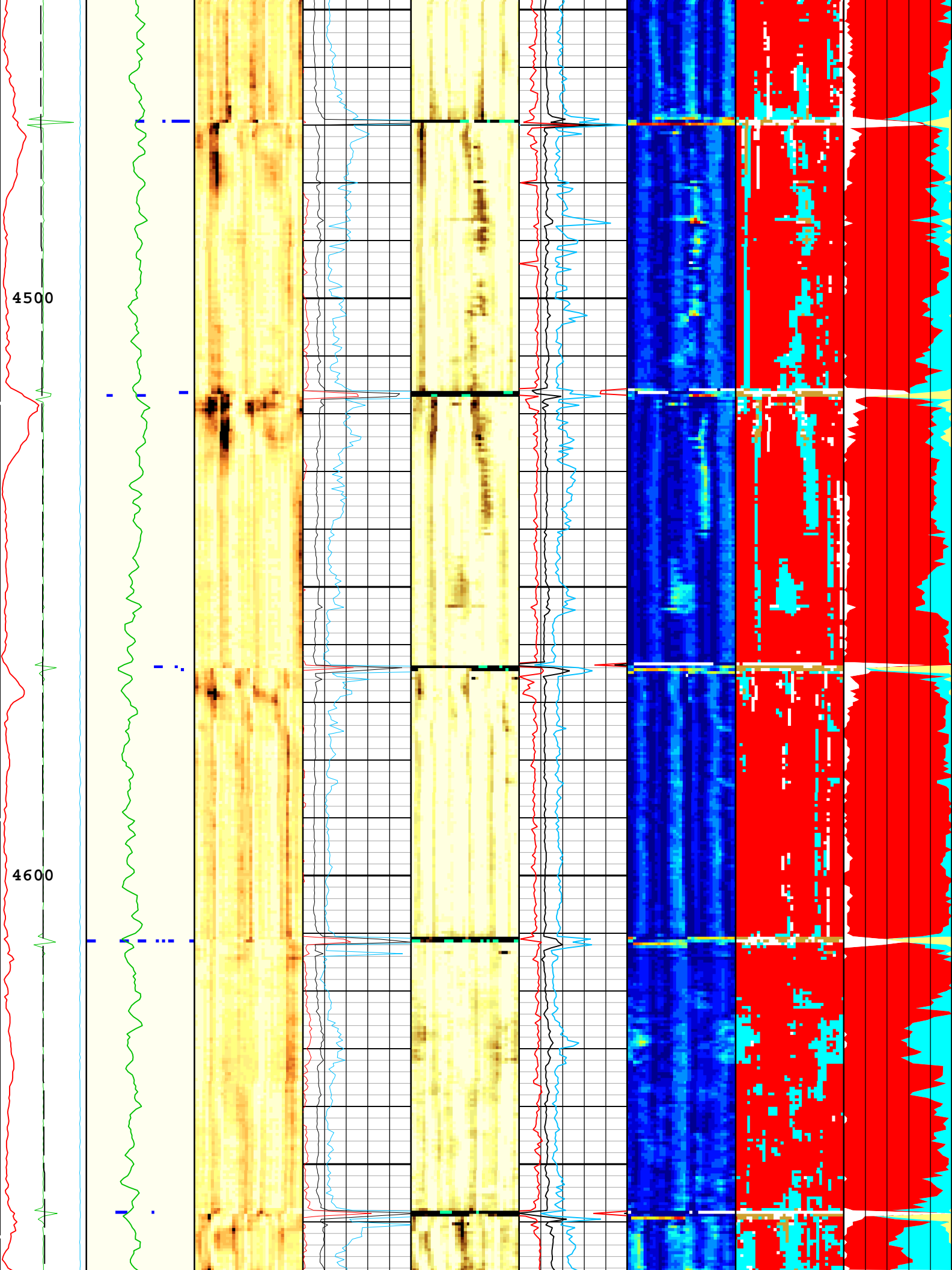


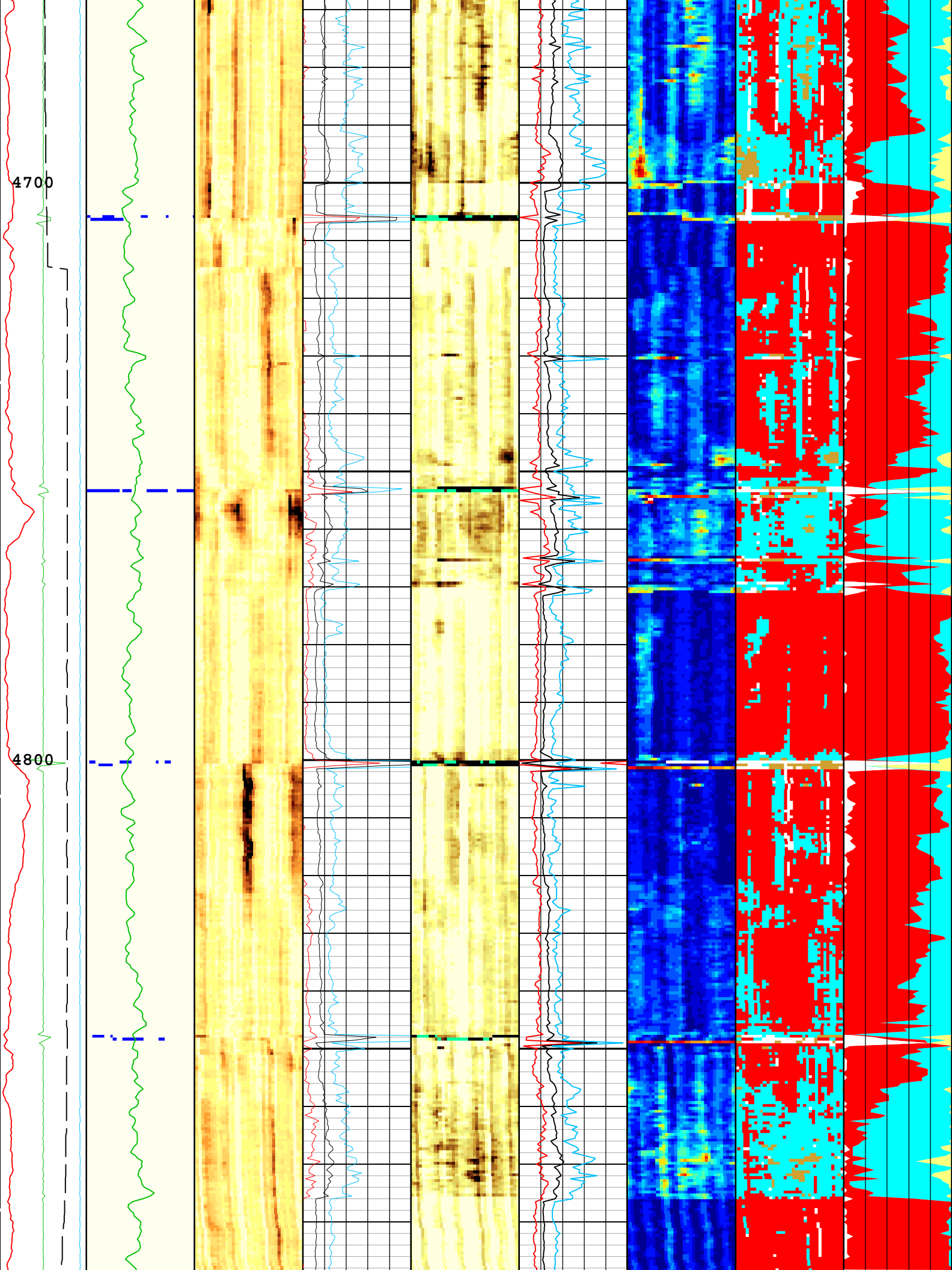


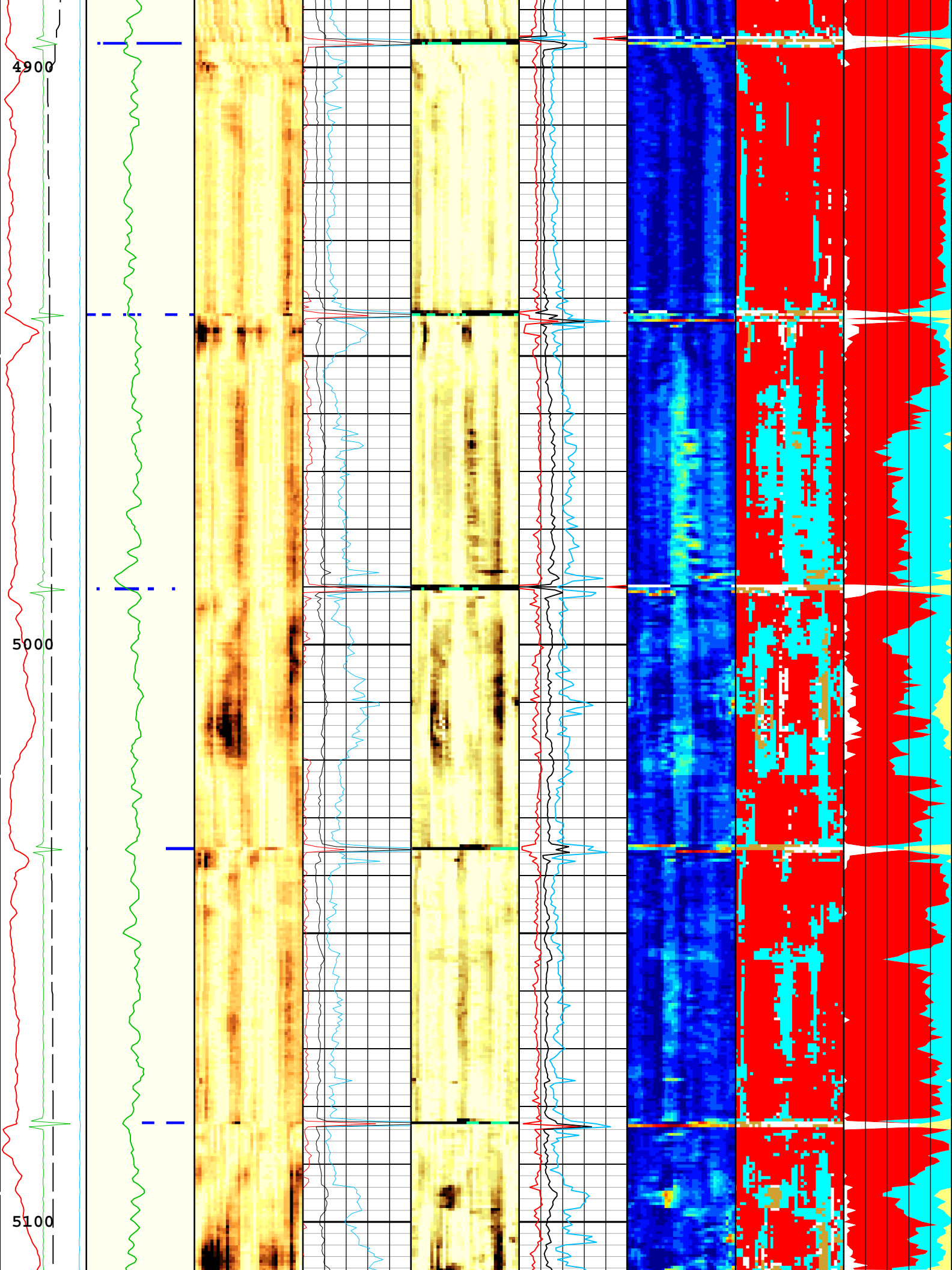


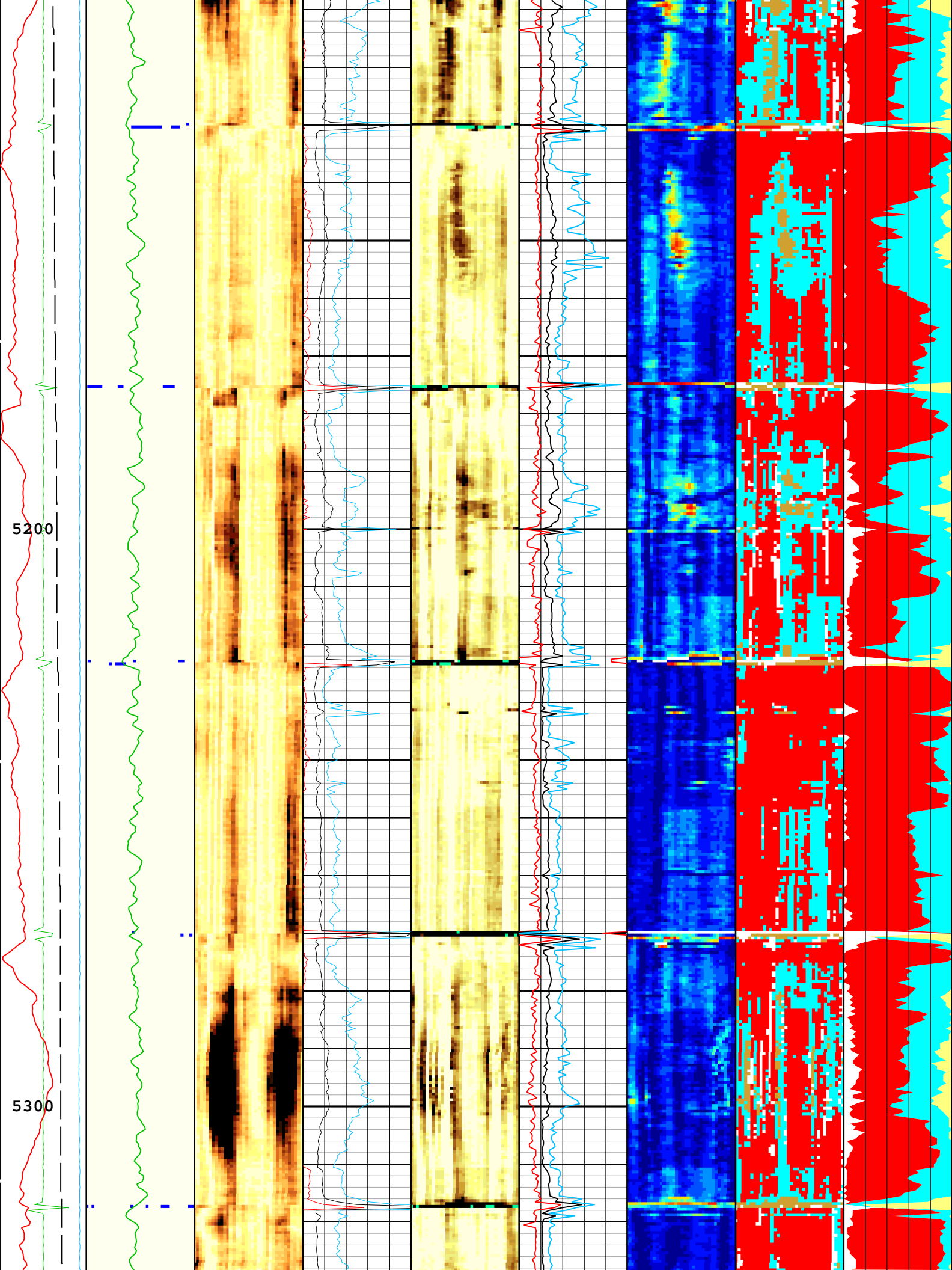


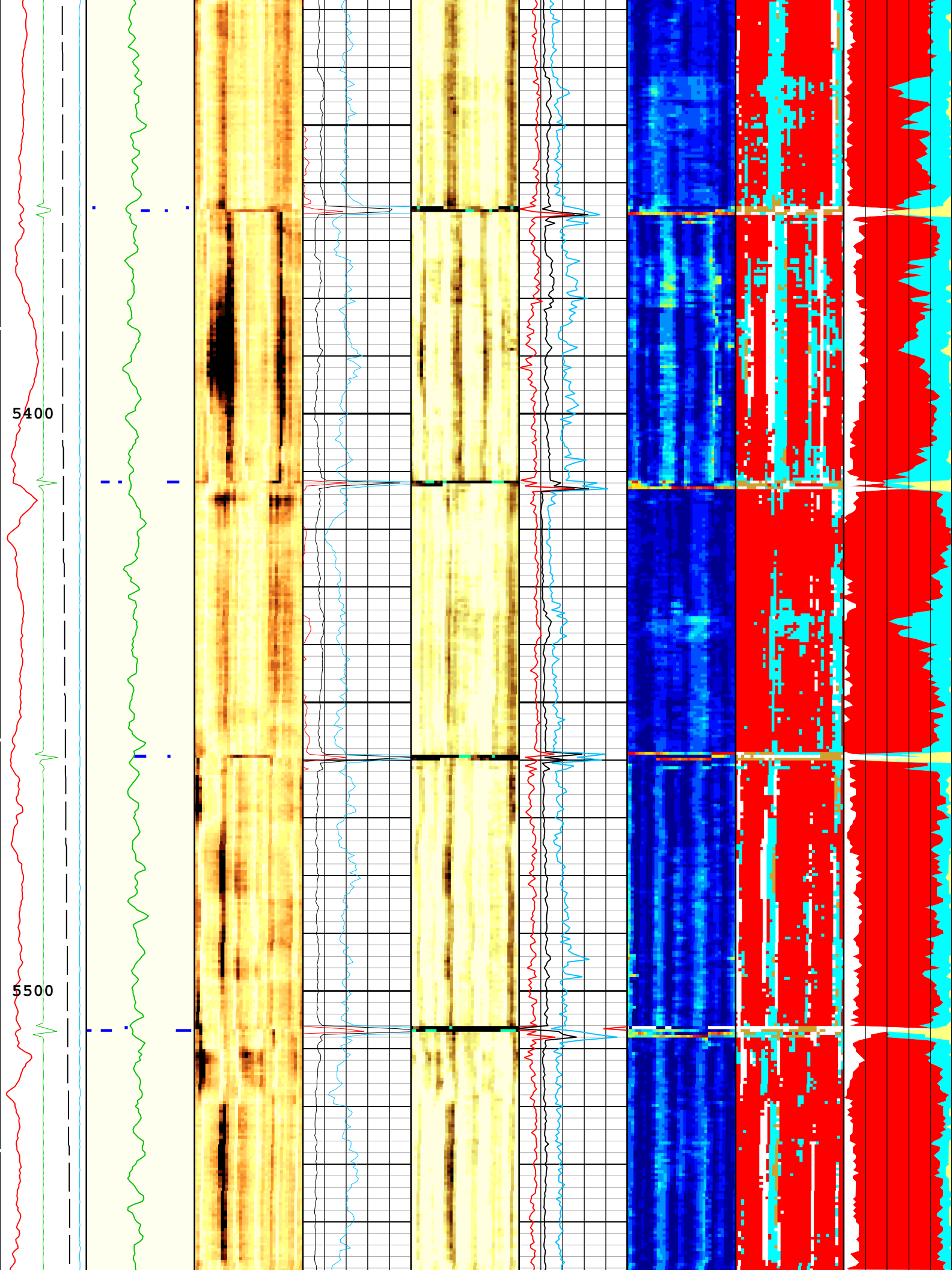


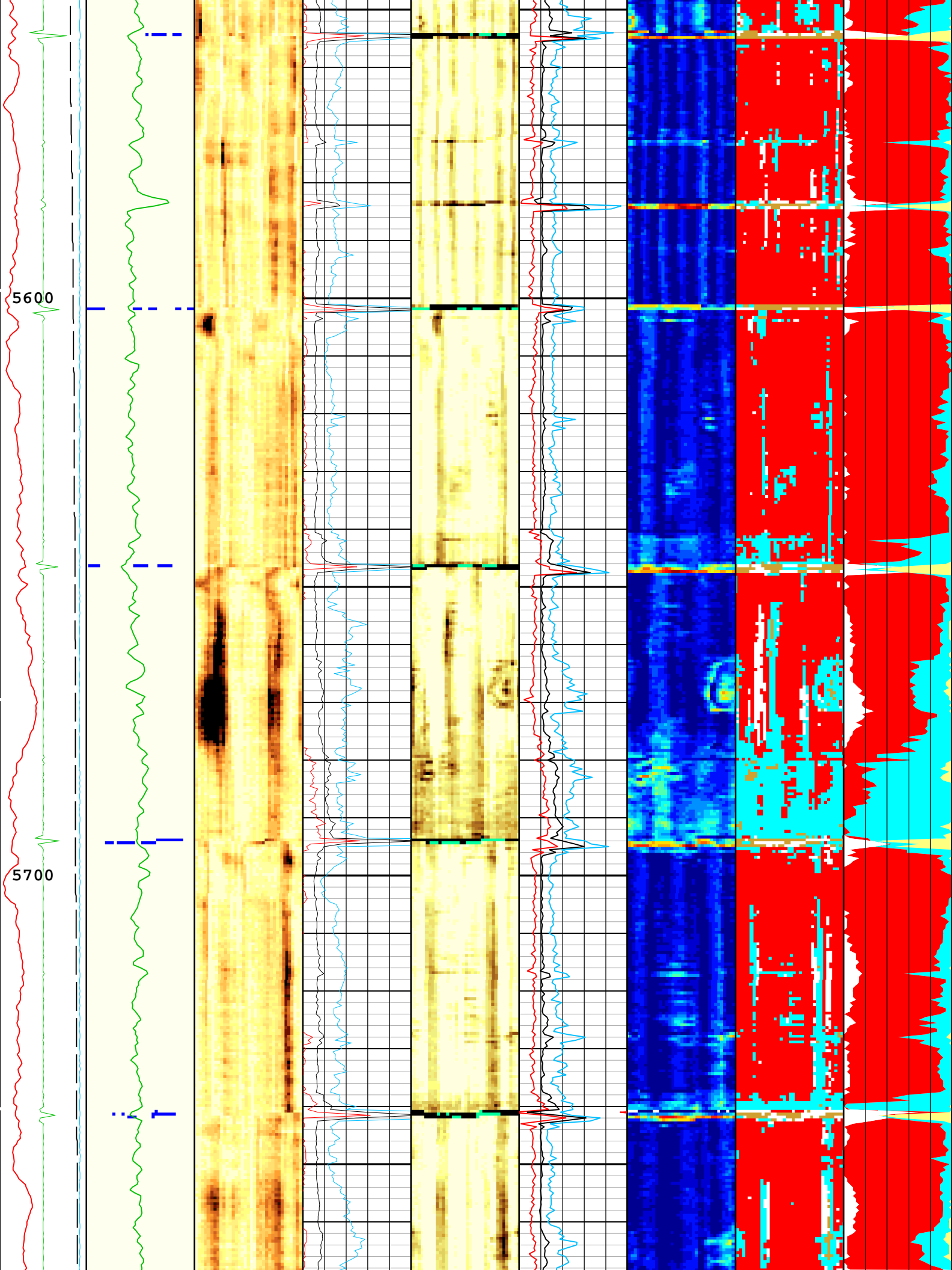


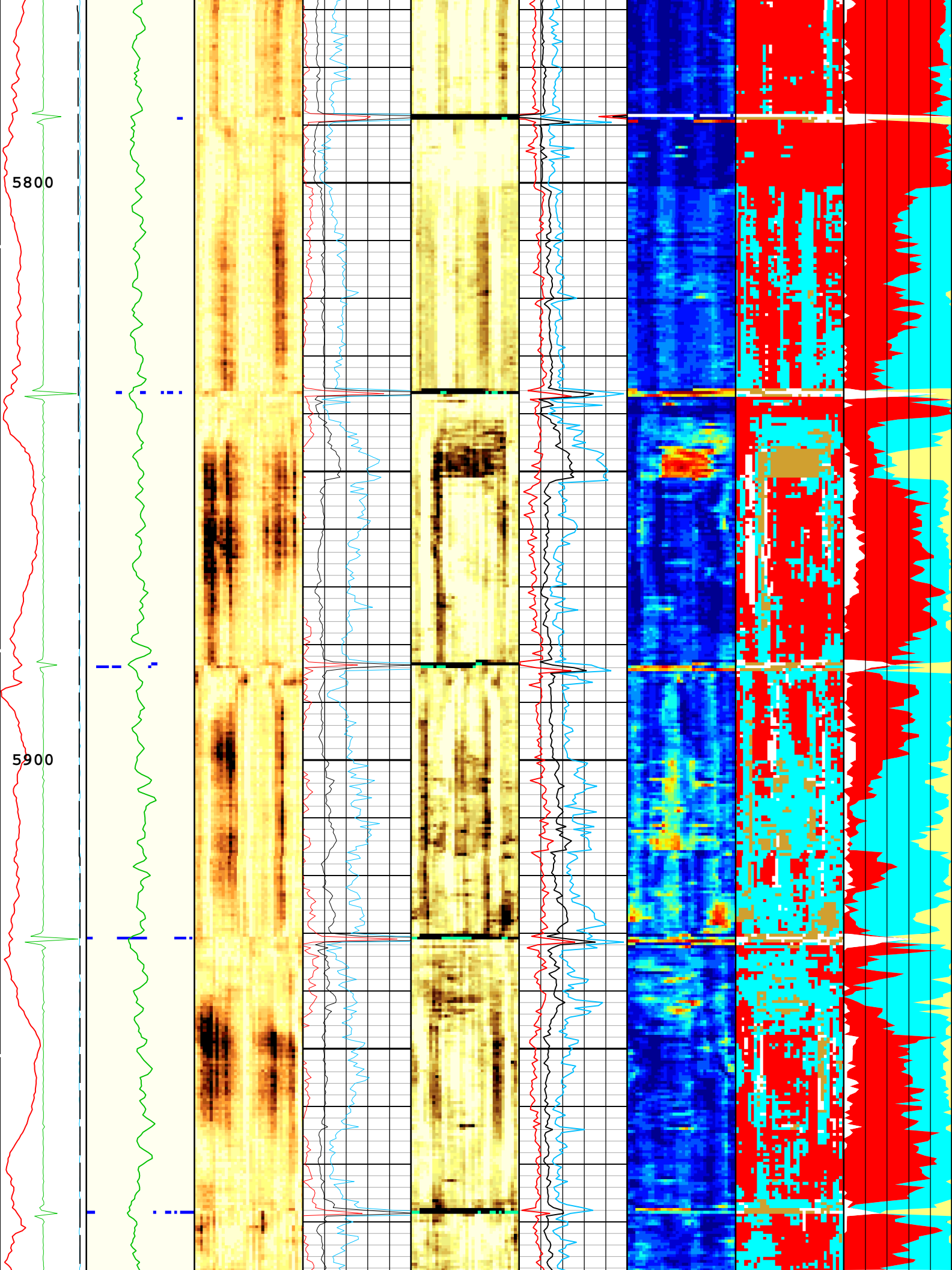


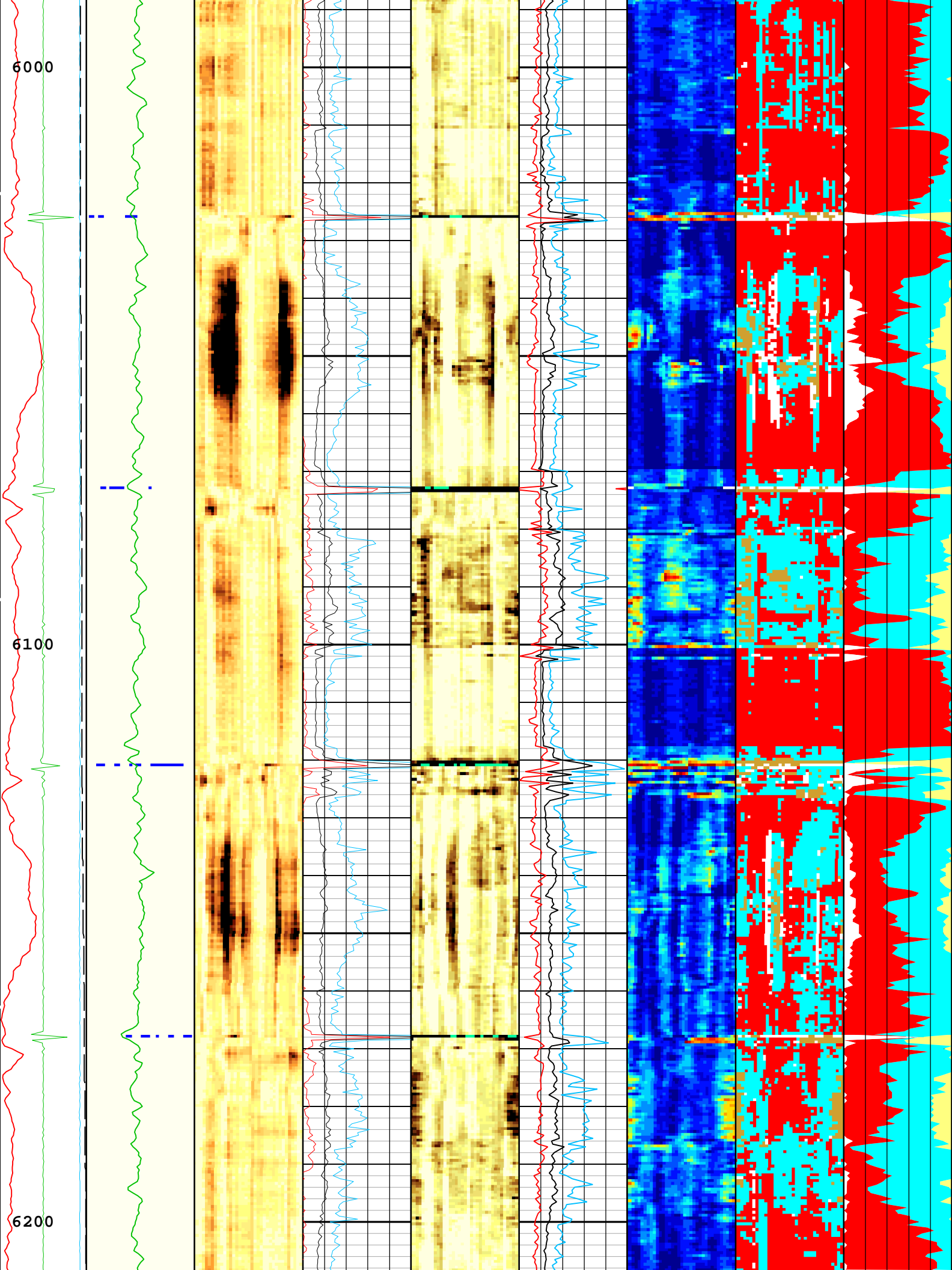


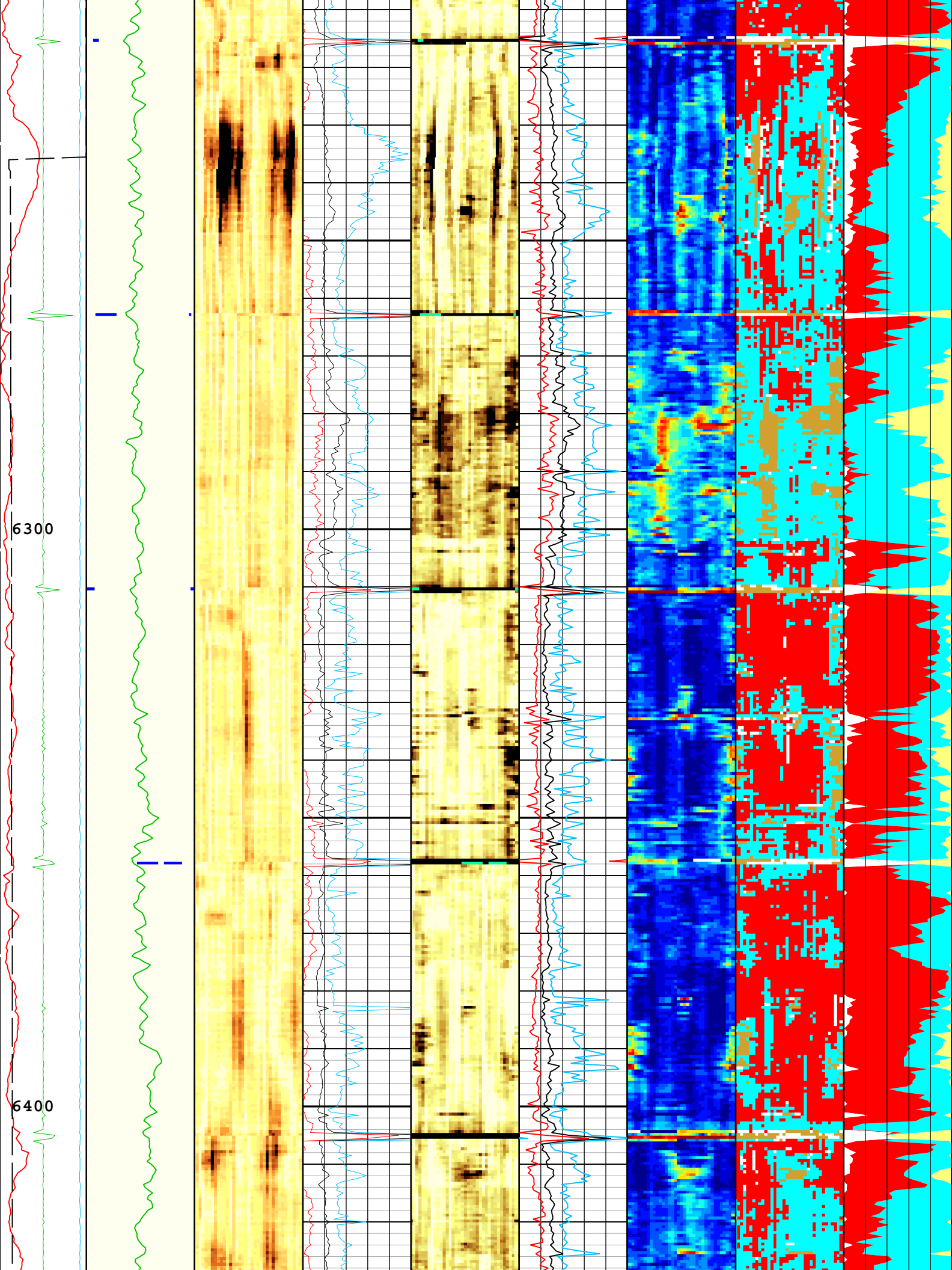


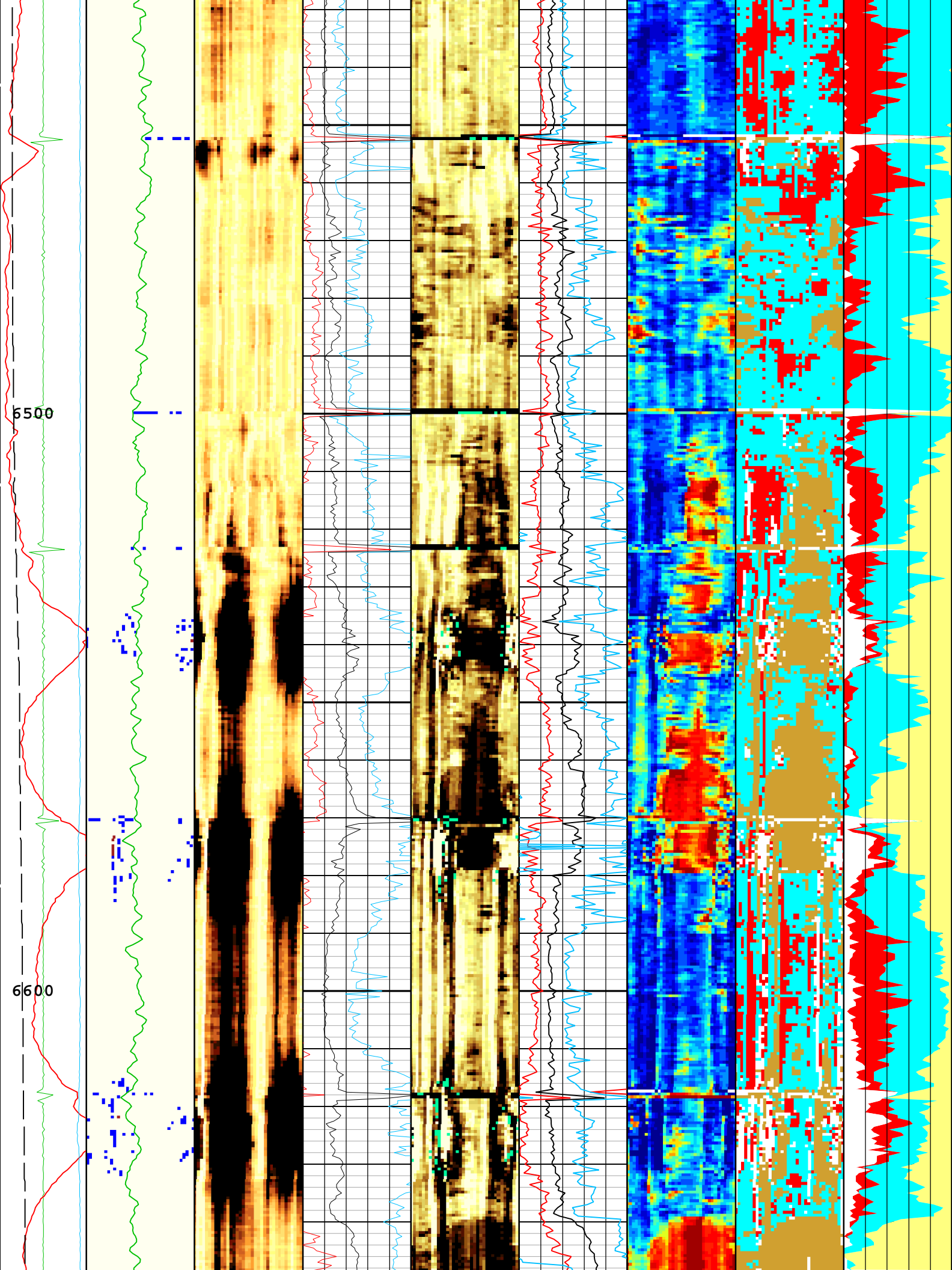


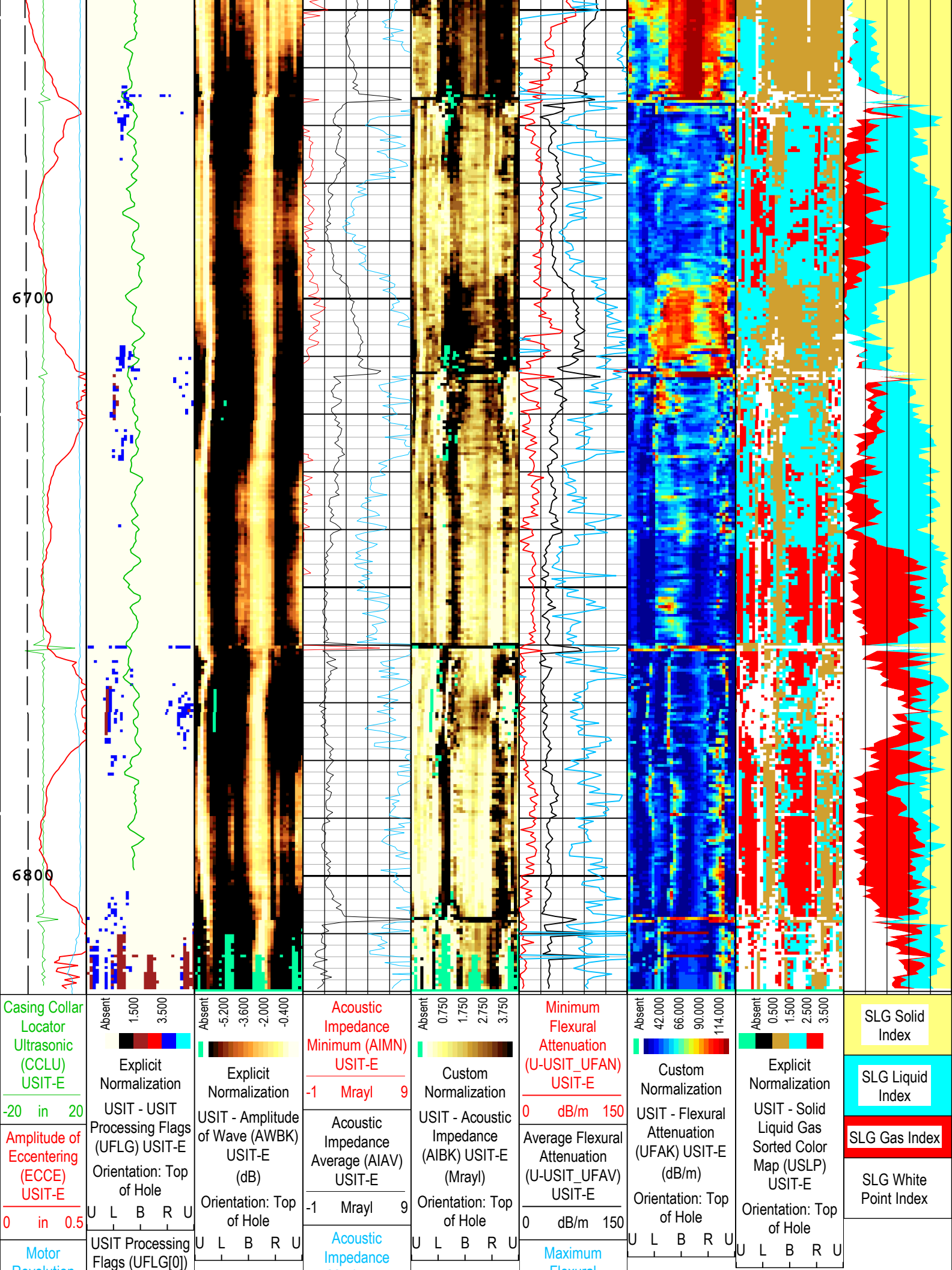

















Revolution Speed (RSAV) USIT-E	1	5
6 c/s 7.5	Gamma Ray (ECGR_EDTC) EDTC-B	
Relative Bearing (RB) USIT-E	0	150
-40 deg 360		

Maximum (AIMX) USIT-E	
-1	Mrayl 9

Flexural
Attenuation
(U-USIT_UFAX)
USIT-E

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: 27-Nov-2018 00:04:25

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	12113	ft
CDEN	Cement Density	USIT-E	12	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	204	us/ft
FD	Fluid Density	USIT-E	10.7	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	-6.51	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	
RCOD	Reference Calibrator Outer Diameter	USIT-E	4.5	in
RCSO	Reference Calibrator Standoff	USIT-E	0.842	in
RODPA	Reference Calibrator Outer Diameter	USIT-E	4.5	in

RCTH	Reference Calibrator Thickness	USIT-E	0.216	in
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	1.75	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-6.69	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
USI_RPLUS	Ultrasonic R+ Processing	USIT-E	No	
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	1.75	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	2429
BS	8.5	2429	6820.5
All depth are actual.			

Tool Control Parameters	
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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	188.21	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	Time Zoned	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	152.12	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	Time Zoned	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	100	25-Nov-2018 14:09:55	25-Nov-2018 15:19:12	6821.15	1909.76
EMXV	80	25-Nov-2018 15:19:12	25-Nov-2018 15:45:28	1909.76	69.19
U-USIT_UFWB	125.34	25-Nov-2018 14:09:55	25-Nov-2018 14:10:48	6821.15	6802.28
U-USIT_UFWB	111.37	25-Nov-2018 14:10:48	25-Nov-2018 15:45:28	6802.28	69.19
U-USIT_UNWB	89.25	25-Nov-2018 14:09:55	25-Nov-2018 14:10:45	6821.15	6805.79
U-USIT_UNWB	70.62	25-Nov-2018 14:10:45	25-Nov-2018 15:45:28	6805.79	69.19
WINB	31.37	25-Nov-2018 14:09:55	25-Nov-2018 14:10:40	6821.15	6811.01
WINB	23.62	25-Nov-2018 14:10:40	25-Nov-2018 15:45:28	6811.01	69.19
WINE	88.5	25-Nov-2018 14:09:55	25-Nov-2018 14:10:36	6821.15	6815.08
WINE	74.84	25-Nov-2018 14:10:36	25-Nov-2018 15:45:28	6815.08	69.19
All depth are at tool zero.					

One






IBC SLG Composite


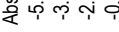

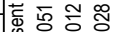



Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[4]:Up	Up	69.19 ft	6821.15 ft	25-Nov-2018 2:09:55 PM	25-Nov-2018 3:45:28 PM	ON	6.82 ft	Yes

All depths are referenced to toolstring zero									
Log	Company:Crestone Peak Resources Operating LLC					Well:Melbon Ranch 4K-17H-M265			
	One: Log[4]:Up:S010								

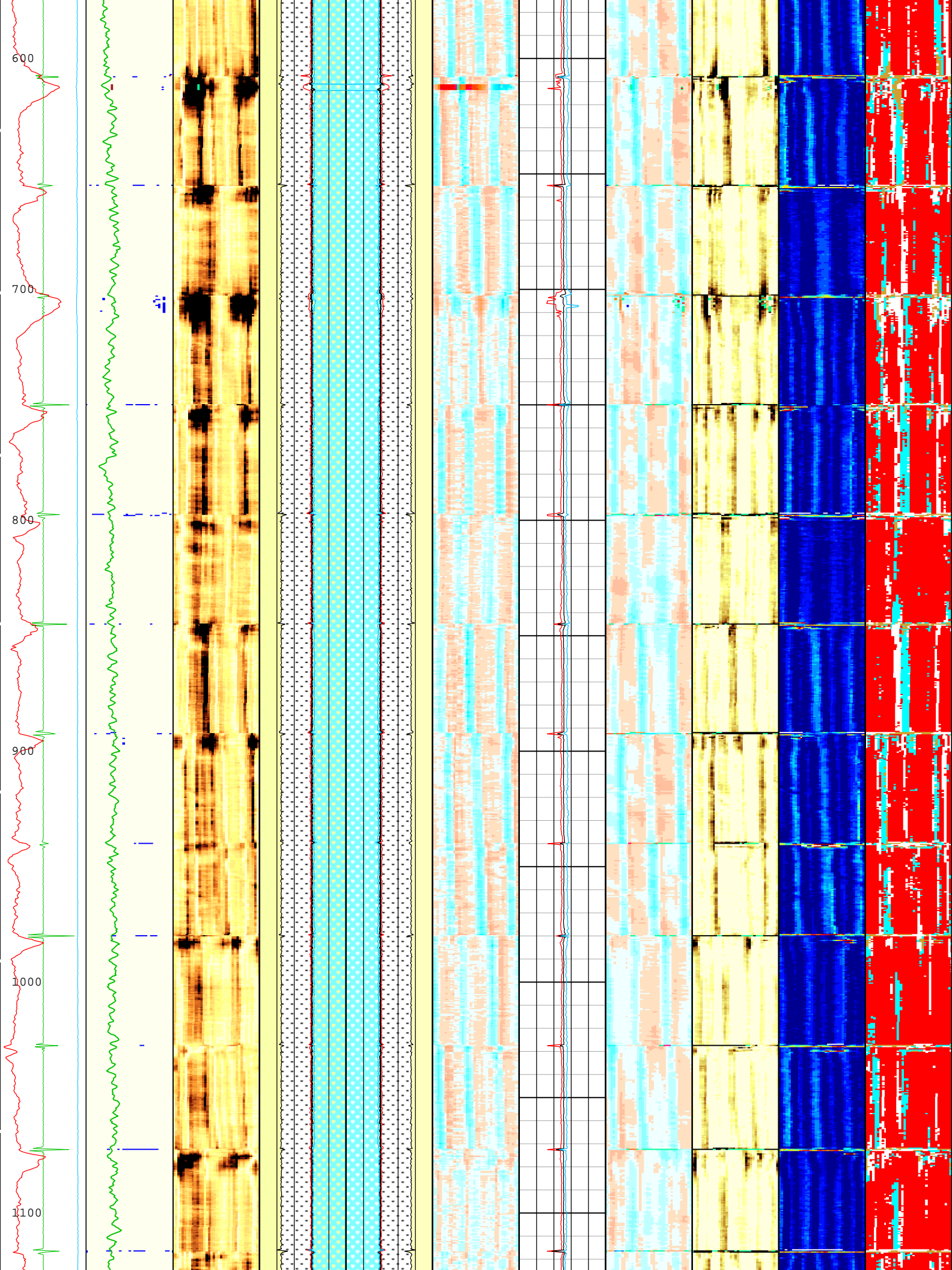
Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 27-Nov-2018 00:04:40

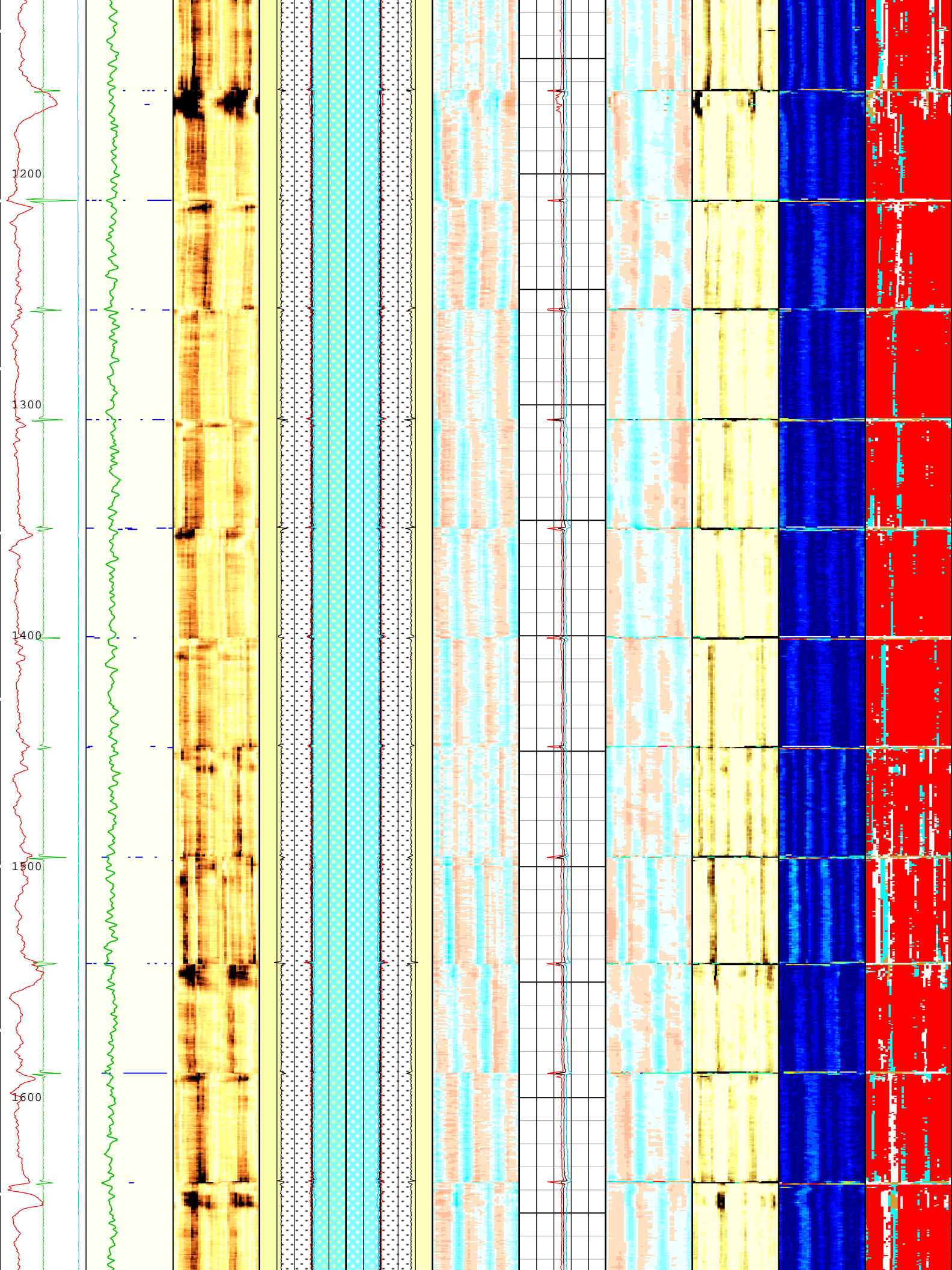
TIME_1900 - Time Marked every 60.00 (s)

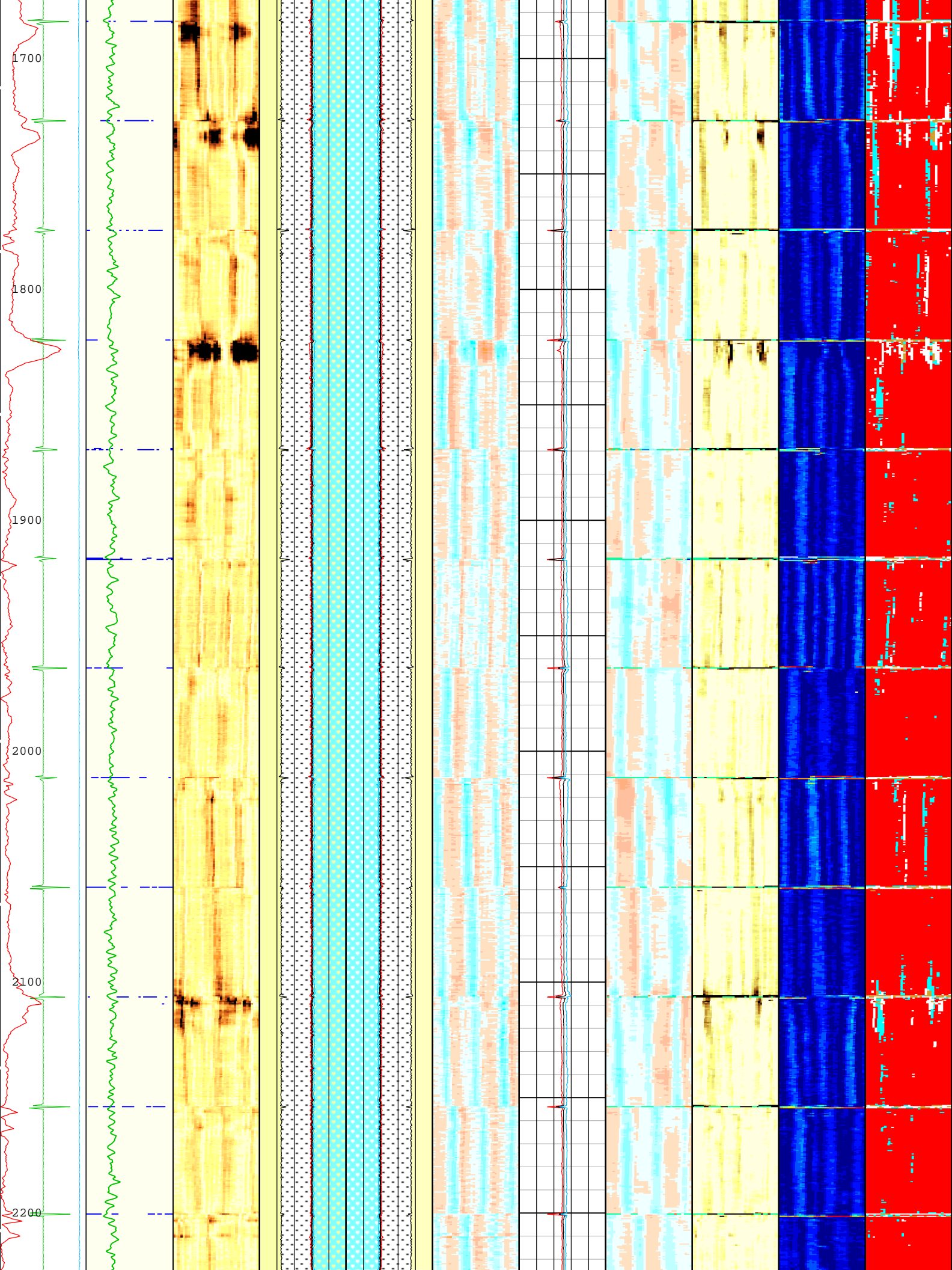
USIT Processing Flags (UFLG[0]) USIT-E		
1 - UFLG 1 Value within [0.0 - 1.5] - :		UTIM Error
2 - UFLG 2 Value within [1.5 - 2.5] - :		Pulse Origin Not Detected
3 - UFLG 3 Value within [2.5 - 3.5] - :		WINLEN Error
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :		Casing Thickness Error
5 - UFLG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

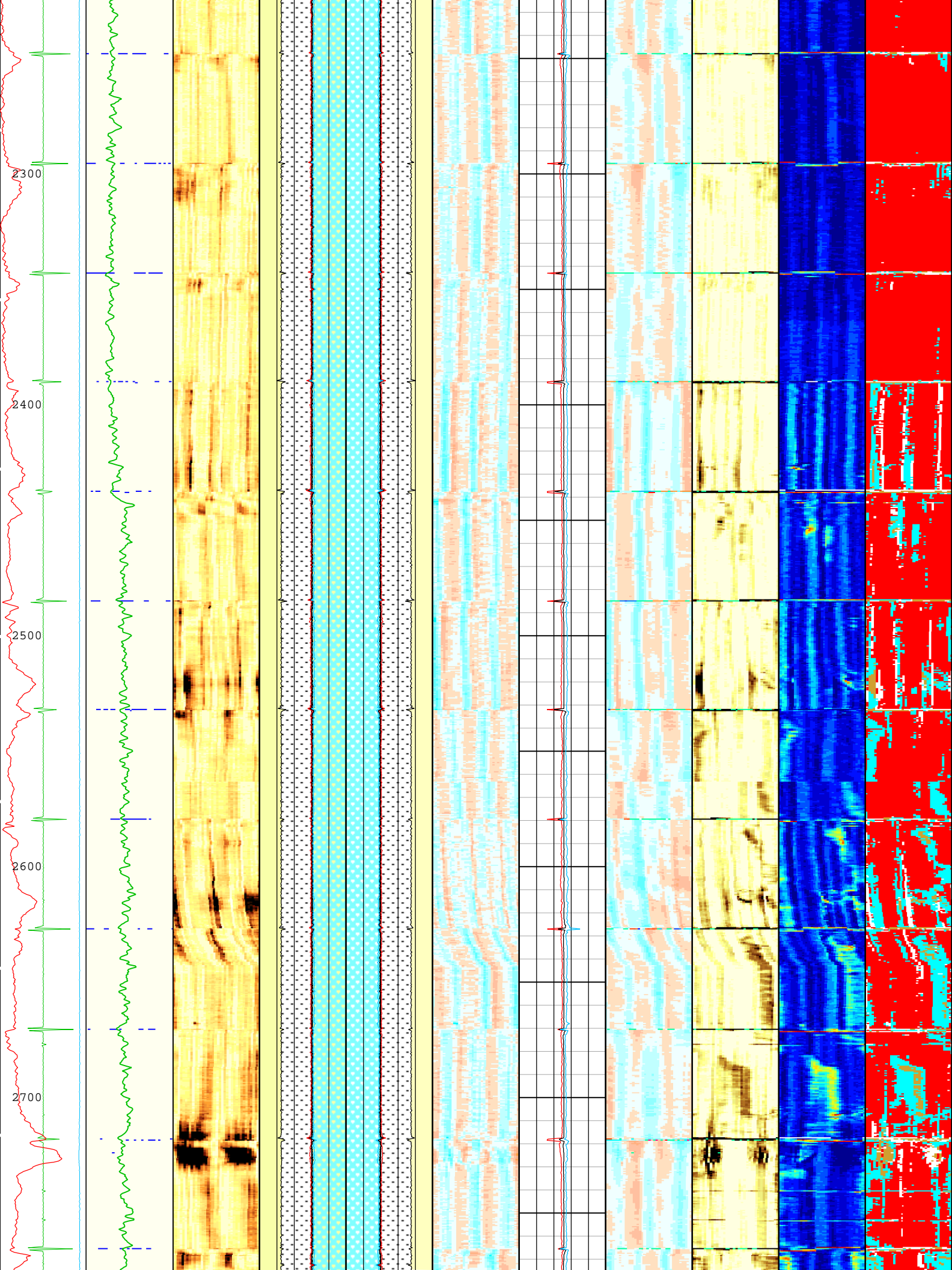
<div>Casing Collar Locator Ultrasonic (CCLU) USIT-E</div> <div>-20 in 20</div> <div>Amplitude of Eccentering (ECCE) USIT-E</div> <div>0 in 0.5</div> <div>Motor</div>	<div>U L B R U</div> <div>Orientation: Top of Hole</div> <div>Absent 1.500 3.500</div> <div></div> <div>Explicit Normalization</div> <div>USIT - USIT Processing Flags (UFLG) USIT-E</div> <div>USIT Processing Flags (UFLG[0]) USIT-E</div> <div>USIT -</div>	<div>U L B R U</div> <div>Orientation: Top of Hole</div> <div>Absent -5.200 -3.600 -2.000 -0.400</div> <div></div> <div>Explicit Normalization</div> <div>USIT -</div>	<div>External Radii Average (ERAV) USIT-E</div> <div>3 in 2</div> <div>Internal Radius Averaged Value (IRAV) USIT-E</div> <div>3 in 2</div> <div>Internal Radius Maximum Value (IRMX) USIT-E</div> <div>3 in 2</div> <div>Internal</div>	<div>External Radii Average (ERAV) USIT-E</div> <div>2 in 3</div> <div>Internal Radius Averaged Value (IRAV) USIT-E</div> <div>2 in 3</div> <div>Internal Radius Maximum Value (IRMX) USIT-E</div> <div>2 in 3</div> <div>Internal</div>	<div>U L B R U</div> <div>Orientation: Top of Hole</div> <div>Absent -0.051 -0.012 0.028 0.068</div> <div></div> <div>Explicit Normalization</div> <div>USIT -</div>	<div>Thickness Minimum Value (THMN) USIT-E</div> <div>0.1 in 0.6</div> <div>Thickness Average Value (THAV) USIT-E</div> <div>0.1 in 0.6</div> <div>Thickness</div>	<div>U L B R U</div> <div>Orientation: Top of Hole</div> <div>Absent -0.051 -0.012 0.028 0.068</div> <div></div> <div>Explicit Normalization</div> <div>USIT - Casing</div>	<div>U L B R U</div> <div>Orientation: Top of Hole</div> <div>Absent 0.750 1.750 2.750 3.750</div> <div></div> <div>Custom Normalization</div> <div>USIT -</div>	<div>U L B R U</div> <div>Orientation: Top of Hole</div> <div>Absent 42.000 66.000 90.000 114.000</div> <div></div> <div>Custom Normalization</div> <div>USIT -</div>	<div>U L B R U</div> <div>Orientation: Top of Hole</div> <div>Absent 1.500 3.500</div> <div></div> <div>Explicit Normalization</div> <div>USIT -</div>
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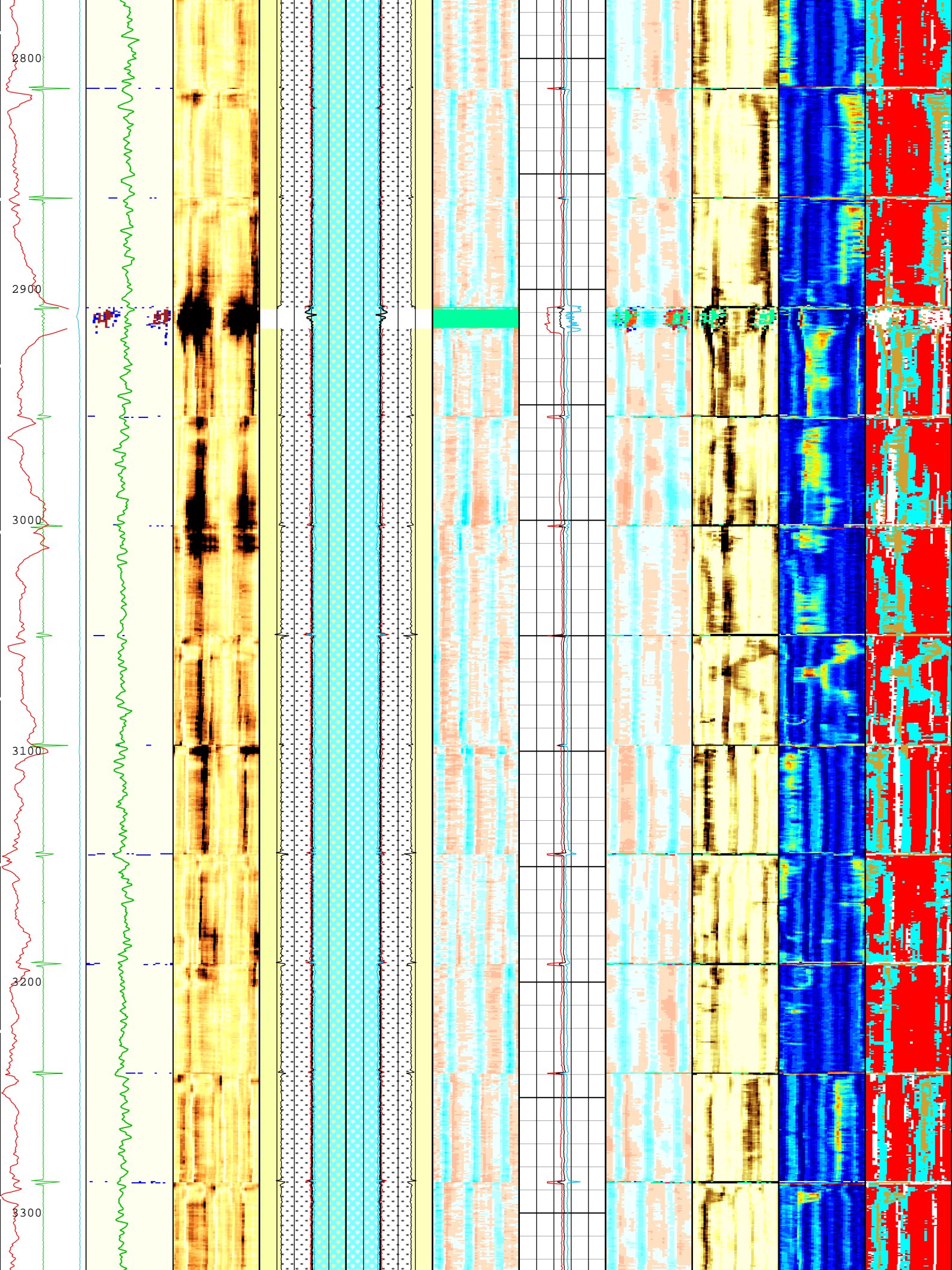
Revolution Speed (RSAV) USIT-E		Gamma Ray (ECGR_EDT C) EDTC-B	Amplitude of Wave (AWBK) USIT-E	Radius Minimum Value (IRMN) USIT-E		Radius Minimum Value (IRMN) USIT-E		Internal Radii Normalized (IRBK) USIT-E	Maximum Value (THMX) USIT-E	Thickness Normalized (THBK) USIT-E	Acoustic Impedance (AIBK) USIT-E	Flexural Attenuation (UFAK) USIT-E	USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E					
6	c/s	7.5	0	gAPI	150	3	in	2	in	3	(in)	0.1	in	0.6	(in)	(Mrayl)	(dB/m)	

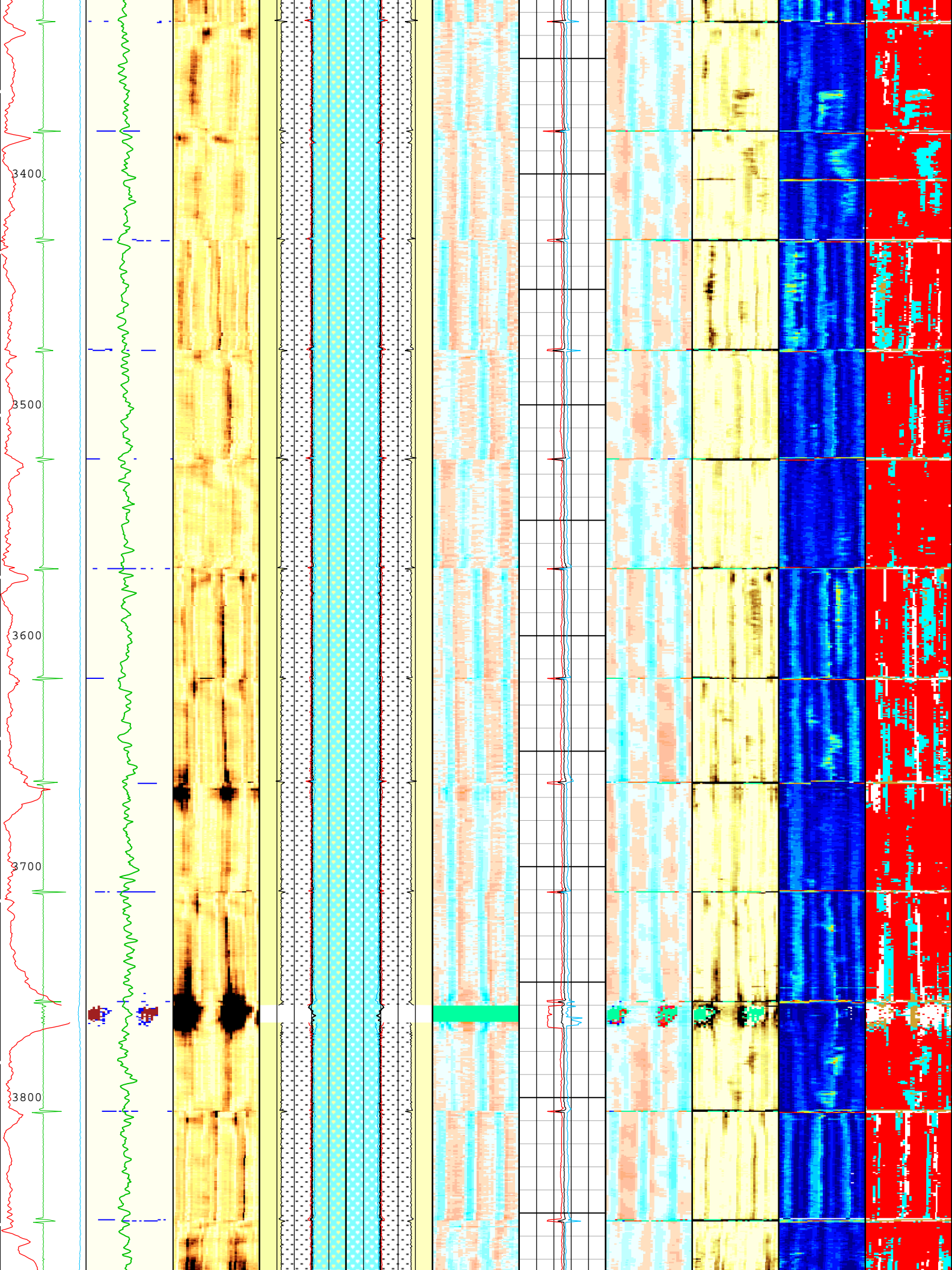


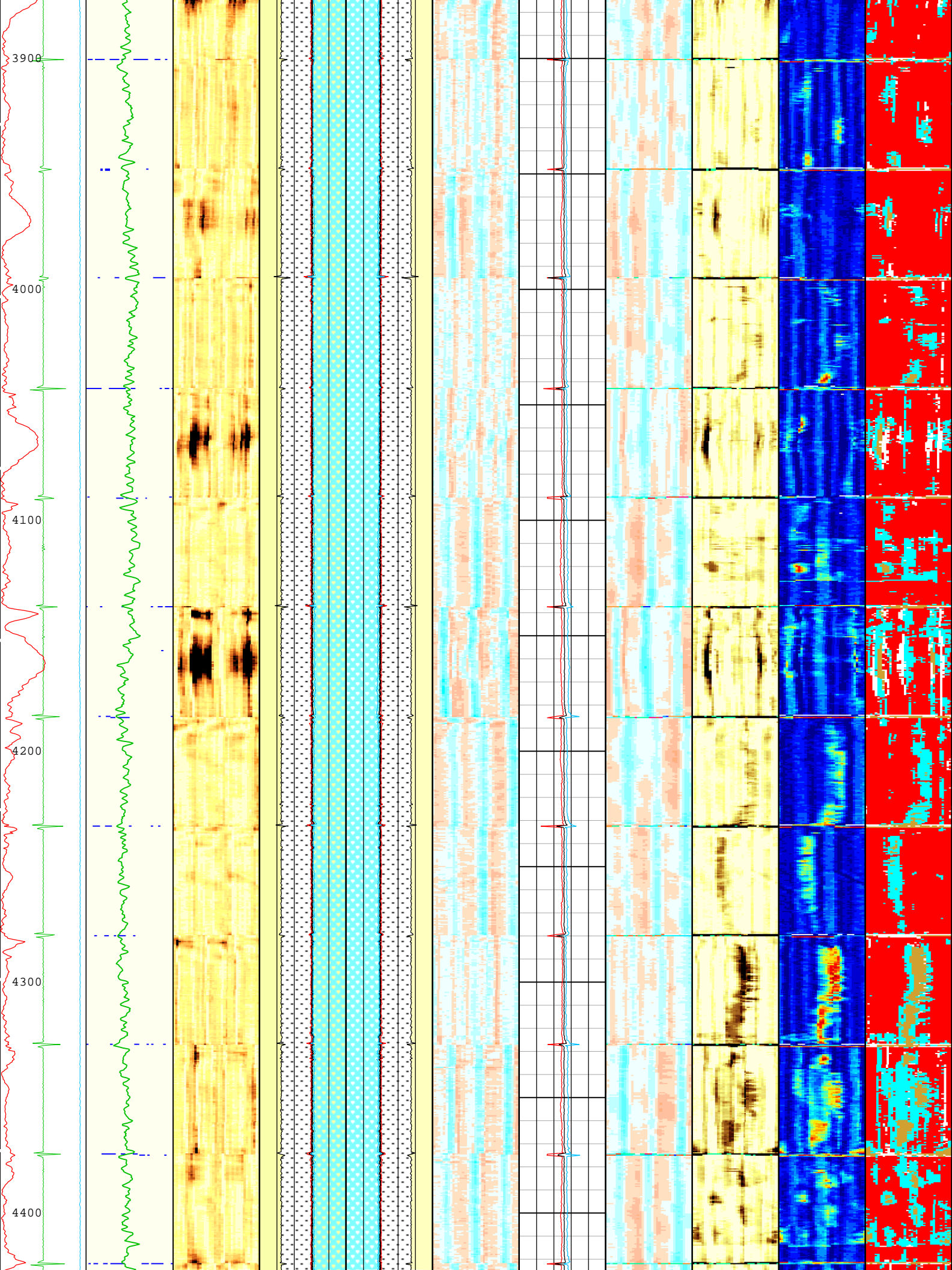


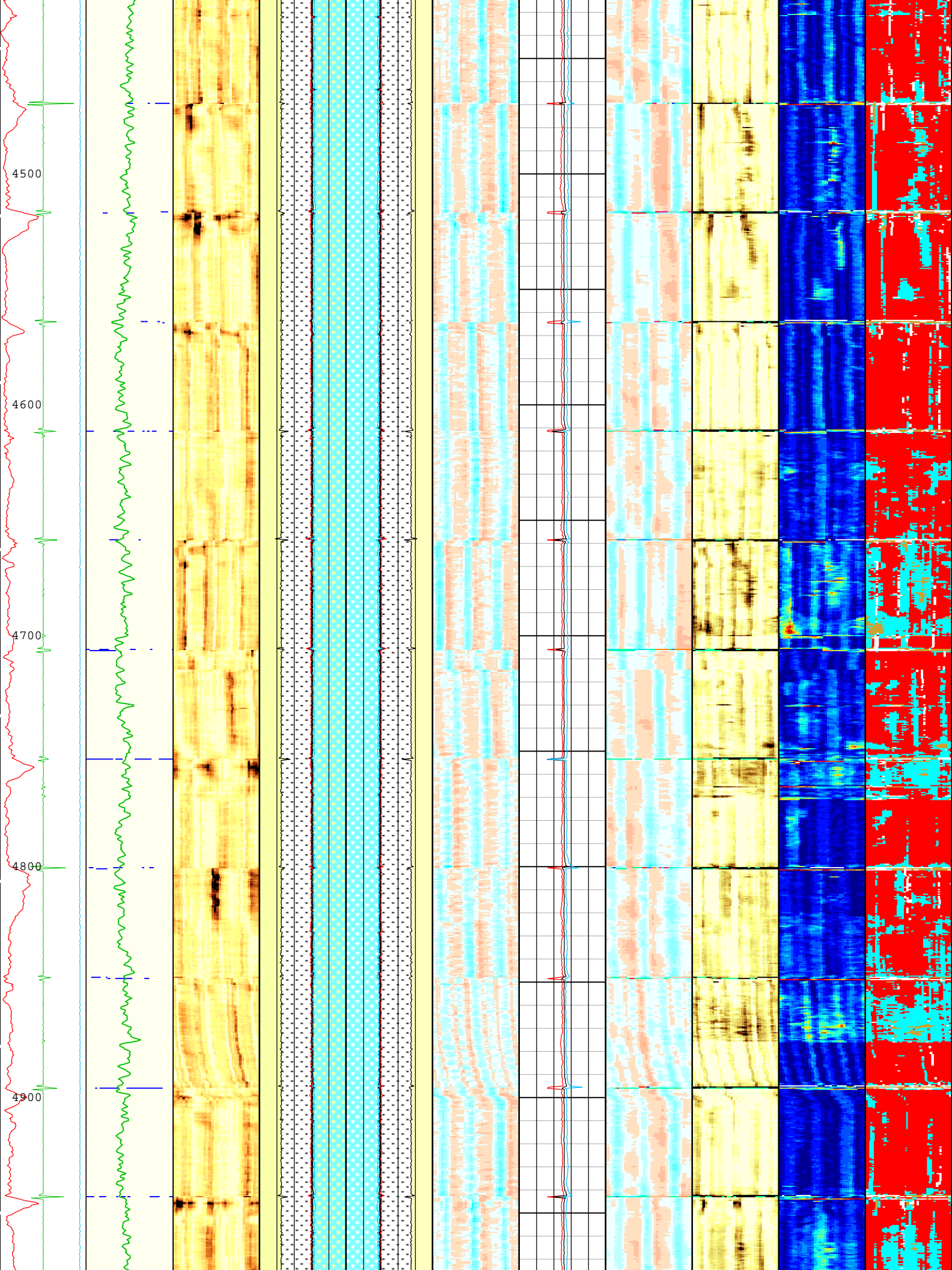


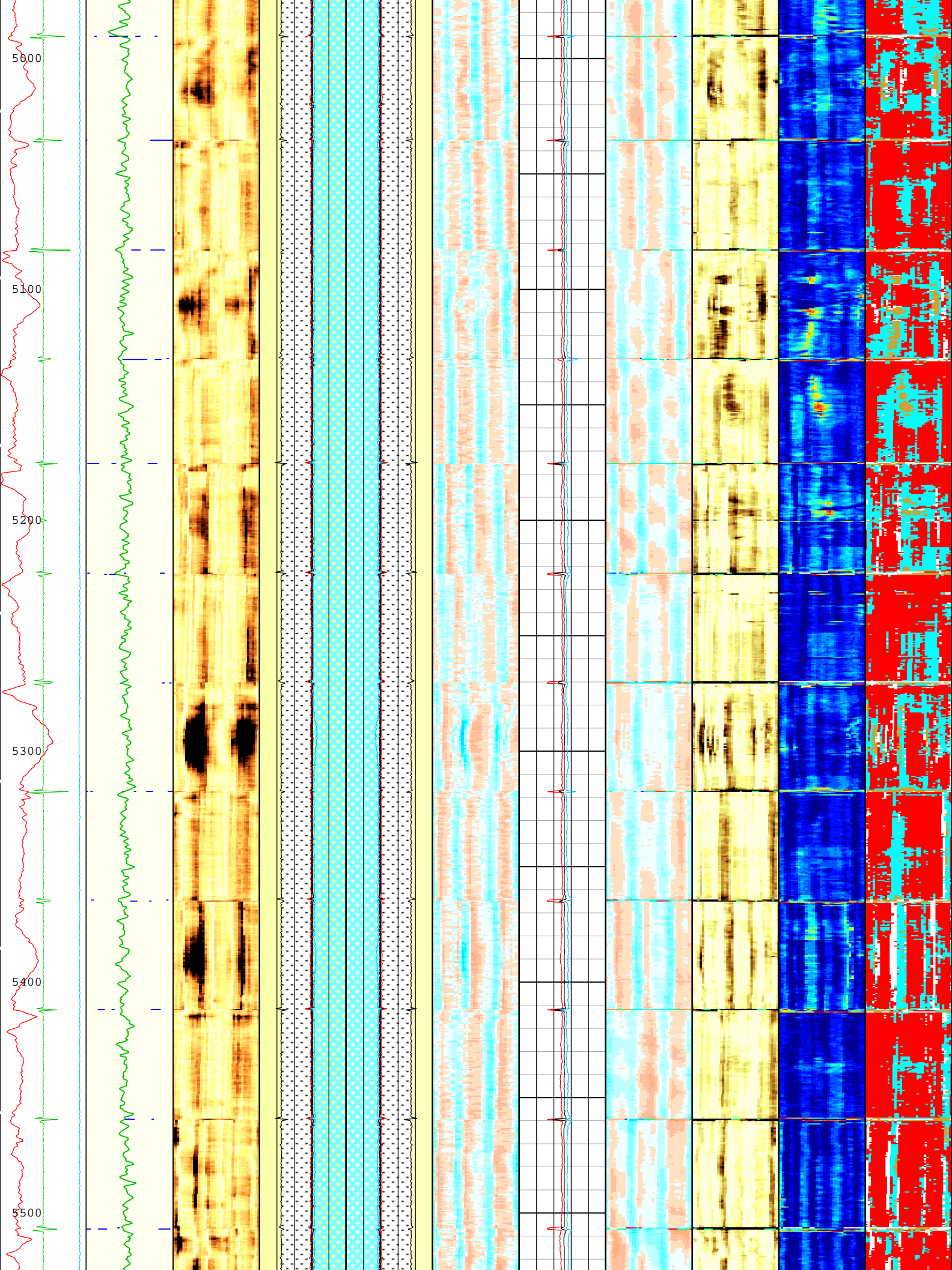


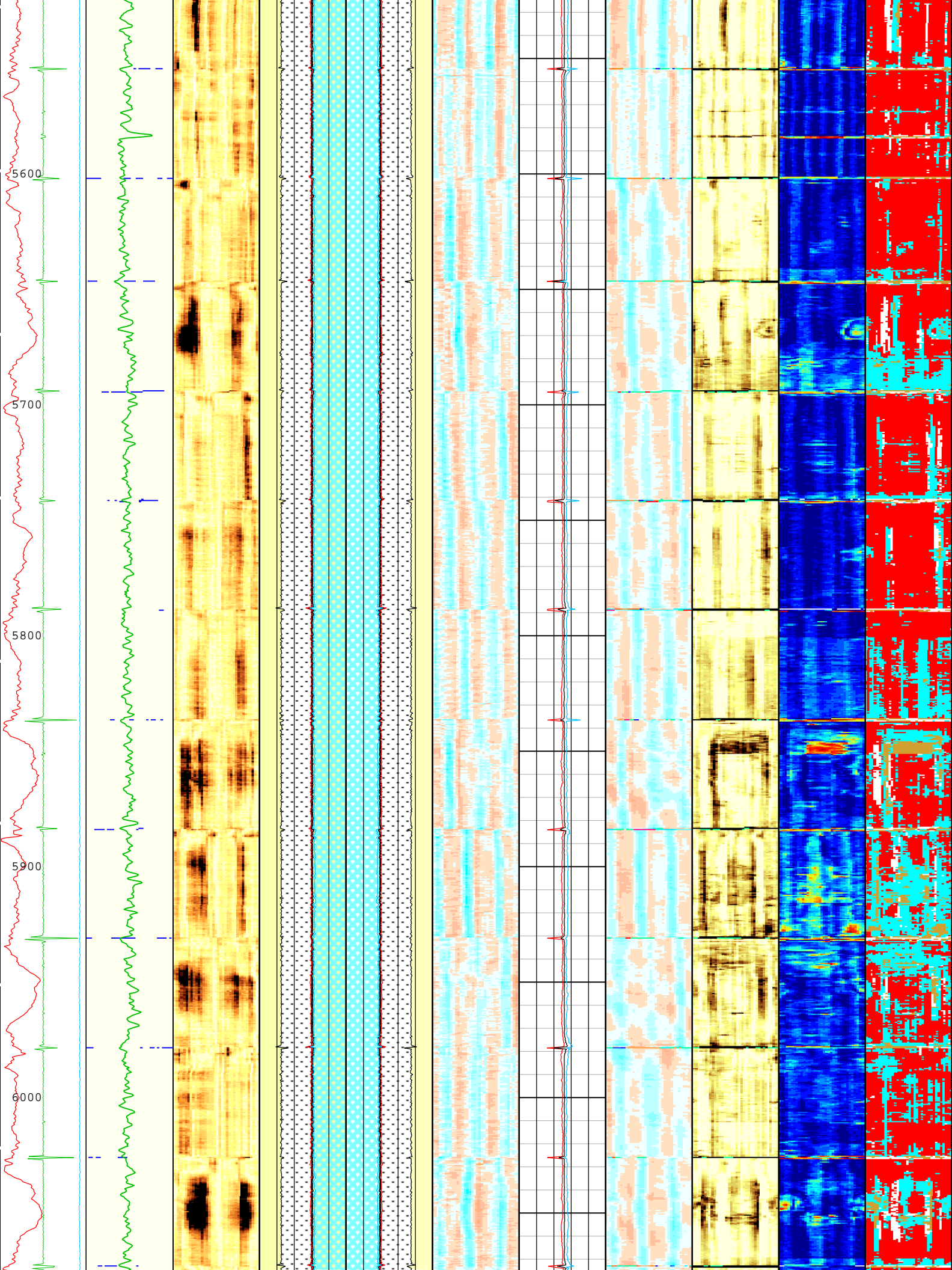


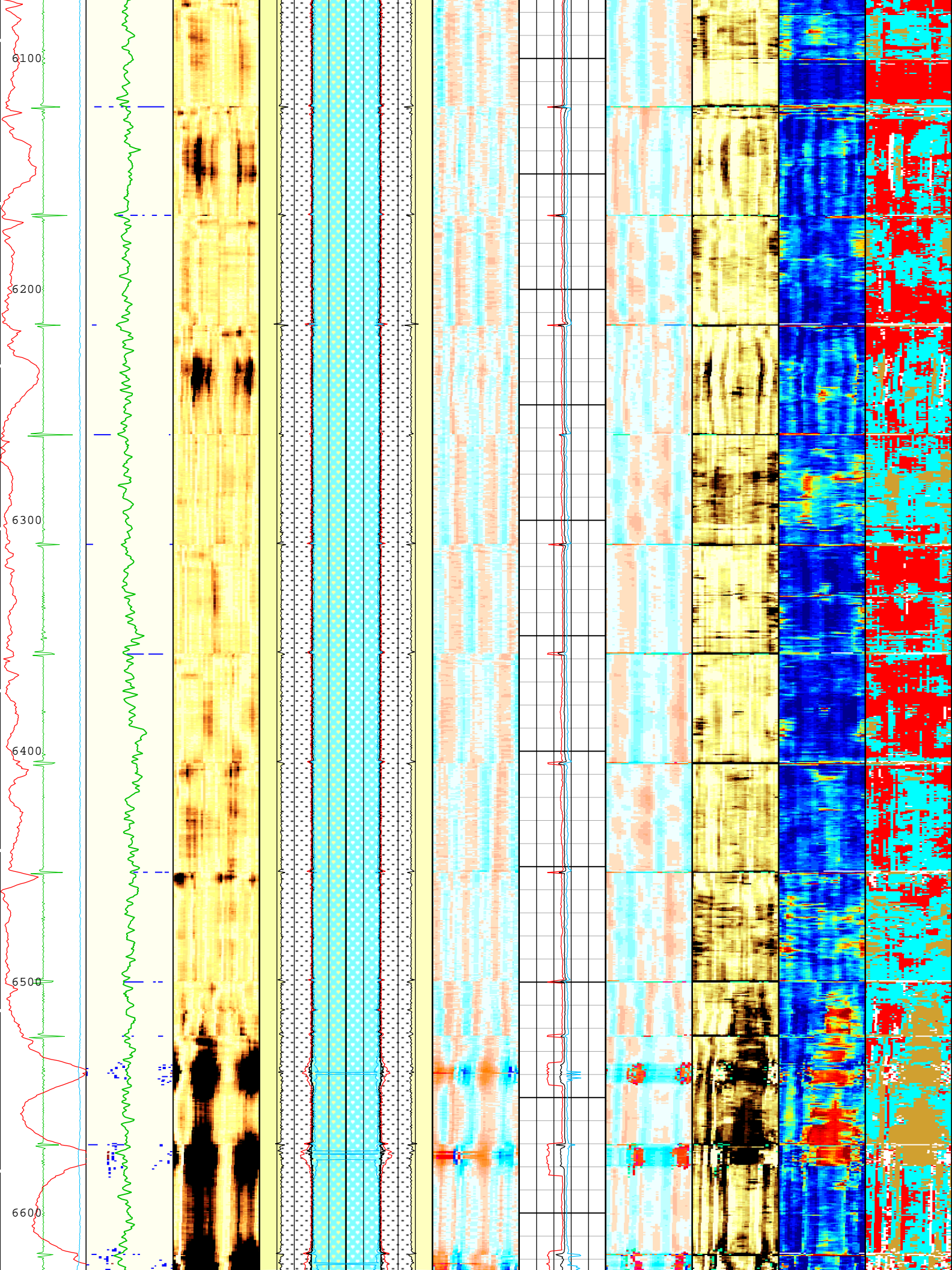


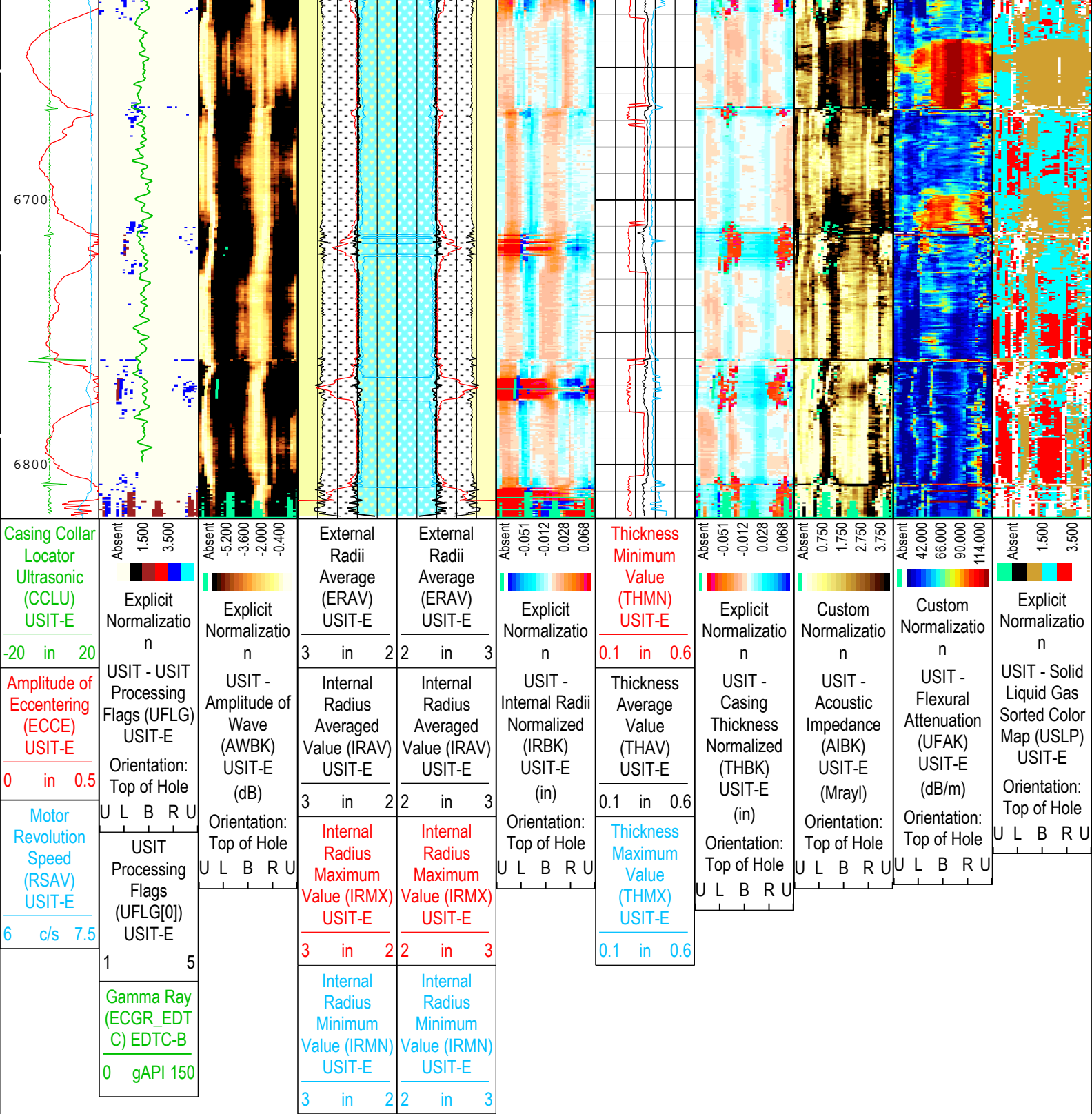












USIT Processing Flags (UFLG[0]) USIT-E

- 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)

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: 27-Nov-2018 00:04:40

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	12113	ft
CDEN	Cement Density	USIT-E	12	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	204	us/ft
FD	Fluid Density	USIT-E	10.7	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	-6.51	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	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.75	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-6.69	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.75	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	2429
BS	8.5	2429	6820.5
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	188.21	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	Time Zoned	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	152.12	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	Time Zoned	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	100	25-Nov-2018 14:09:55	25-Nov-2018 15:19:12	6821.15	1909.76
EMXV	80	25-Nov-2018 15:19:12	25-Nov-2018 15:45:28	1909.76	69.19
U-USIT_UFWB	125.34	25-Nov-2018 14:09:55	25-Nov-2018 14:10:48	6821.15	6802.28
U-USIT_UFWB	111.37	25-Nov-2018 14:10:48	25-Nov-2018 15:45:28	6802.28	69.19
U-USIT_UNWB	89.25	25-Nov-2018 14:09:55	25-Nov-2018 14:10:45	6821.15	6805.79
U-USIT_UNWB	70.62	25-Nov-2018 14:10:45	25-Nov-2018 15:45:28	6805.79	69.19
WINB	31.37	25-Nov-2018 14:09:55	25-Nov-2018 14:10:40	6821.15	6811.01
WINB	23.62	25-Nov-2018 14:10:40	25-Nov-2018 15:45:28	6811.01	69.19
WINE	88.5	25-Nov-2018 14:09:55	25-Nov-2018 14:10:36	6821.15	6815.08
WINE	74.84	25-Nov-2018 14:10:36	25-Nov-2018 15:45:28	6815.08	69.19

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	69.19 ft	6821.15 ft	25-Nov-2018 2:09:55 PM	25-Nov-2018 3:45:28 PM	ON	6.82 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources Operating LLC

Well:Melbon Ranch 4K-17H-M265

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: 27-Nov-2018 00:04:52

TIME_1900 - Time Marked every 60.00 (s)

Gamma Ray (ECGR_E DTC) EDTC-B

0150 gAPI

Amplitude of Eccentering (ECCE) USIT-E

0 in 0.5

Motor Revolution Speed (RSAV) USIT-E

Acoustic Impedance Minimum (AIMN) USIT-E

-1 Mrayl 9

Acoustic Impedance Maximum (AIMX) USIT-E

-1 Mrayl 9

Acoustic Impedance Average (AIAV) USIT-E

40140

Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E

40140 dB/m

Average Flexural Attenuation (U-USIT_UF AV) USIT-E

40140 dB/m

Minimum Flexural Attenuation (U-USIT_UF AN) USIT-E

40140

Orientation: Top of Hole

Absent 0.750 1.750 2.750 3.750

Custom Normalization

USIT - Acoustic Impedance (AIBK)

Orientation: Top of Hole

0.000 48.000 72.000 96.000 120.000

Custom Normalization

USIT - Flexural Attenuation (UFAK)

Orientation: Top of Hole

Absent 1.500 3.500

Explicit Normalization

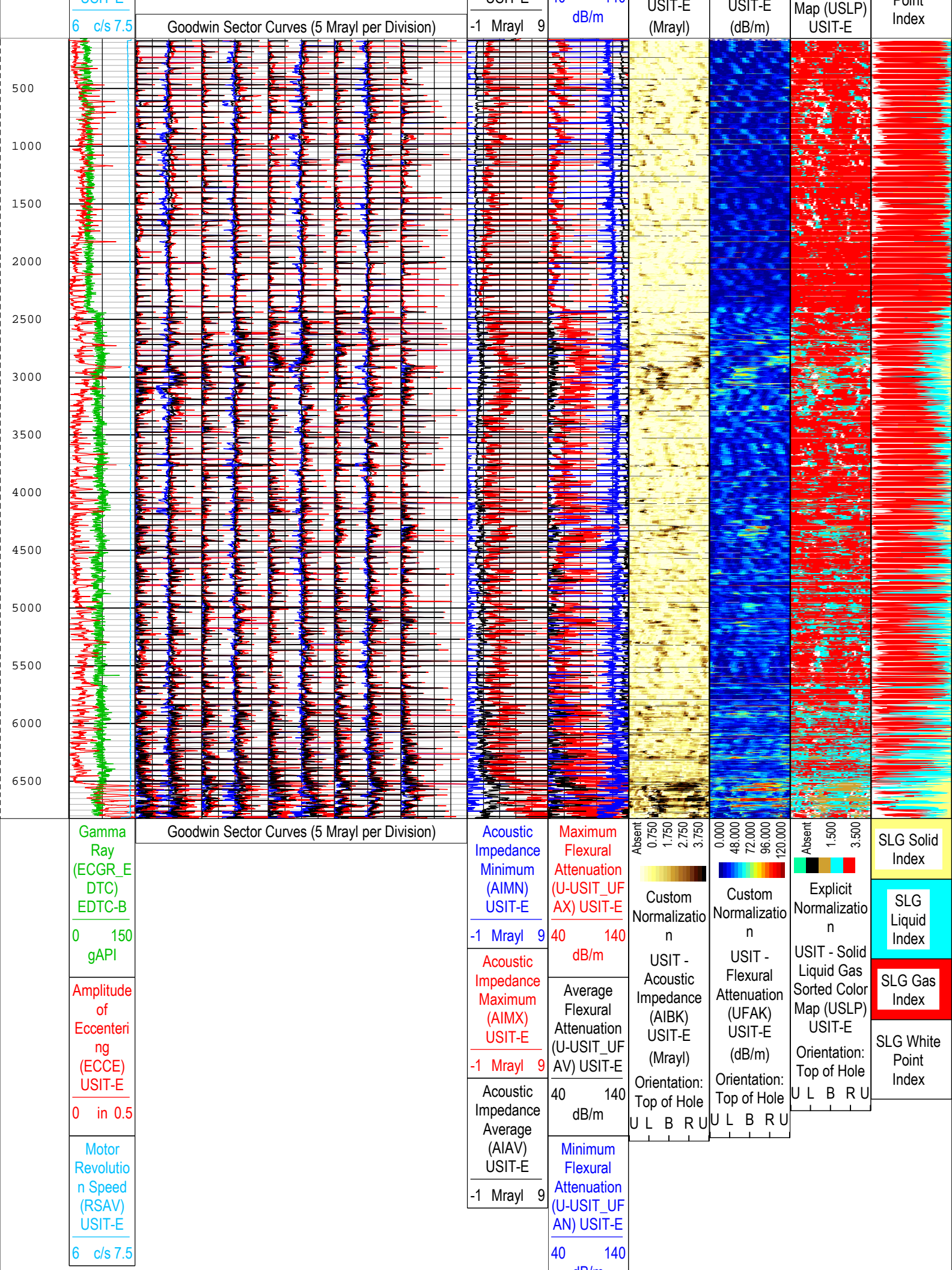
USIT - Solid Liquid Gas Sorted Color

SLG Solid Index

SLG Liquid Index

SLG Gas Index

SLG White Point



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: 27-Nov-2018 00:04:52

One

IBC SLG

Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[2]:Up	Up	2131.86 ft	2703.15 ft	25-Nov-2018 1:46:54 PM	25-Nov-2018 1:55:24 PM	ON	2.05 ft	Yes

All depths are referenced to toolstring zero

Log






Company:Crestone Peak Resources Operating LLC

Well:Melbon Ranch 4K-17H-M265

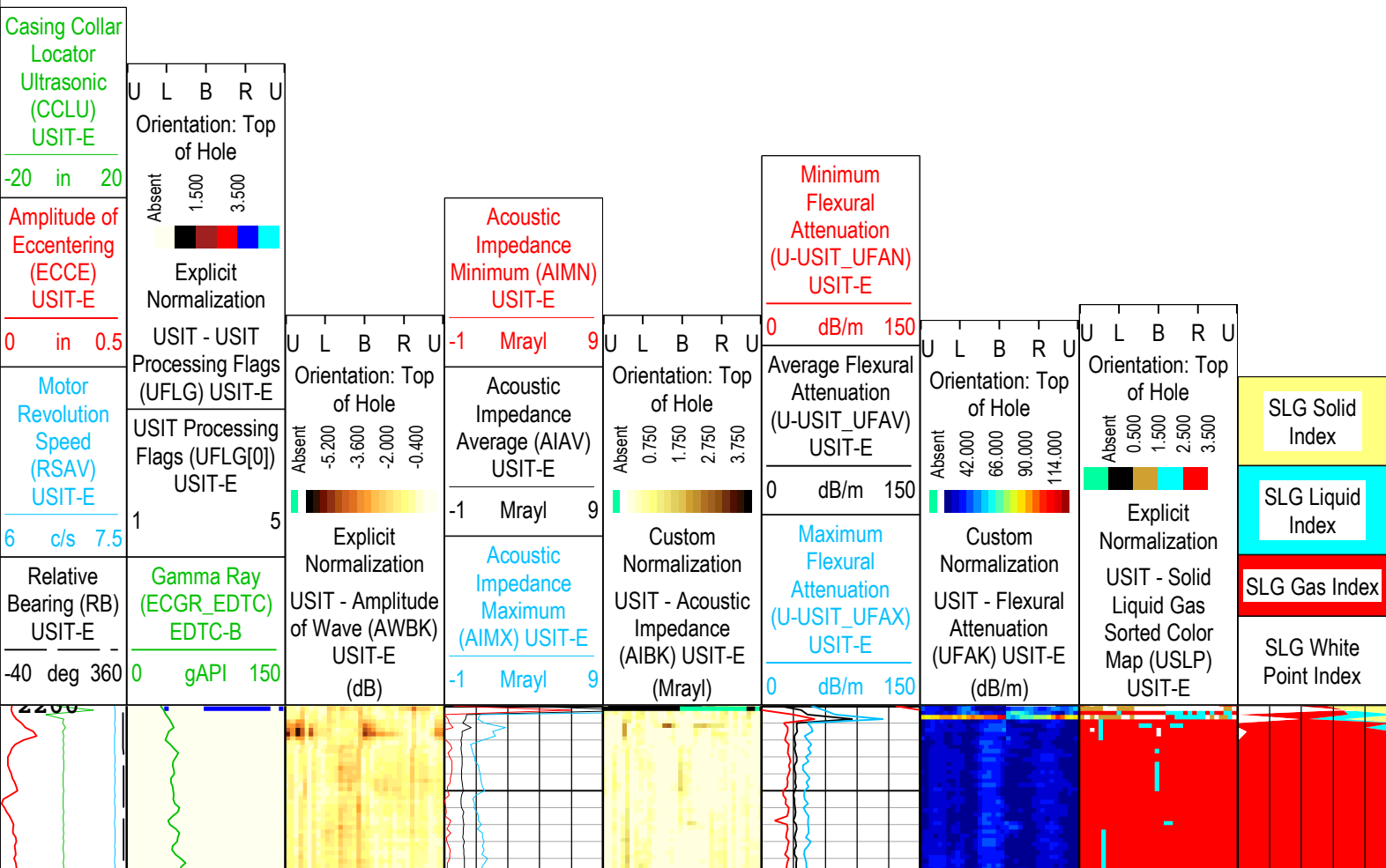
One: Log[2]:Up:S010

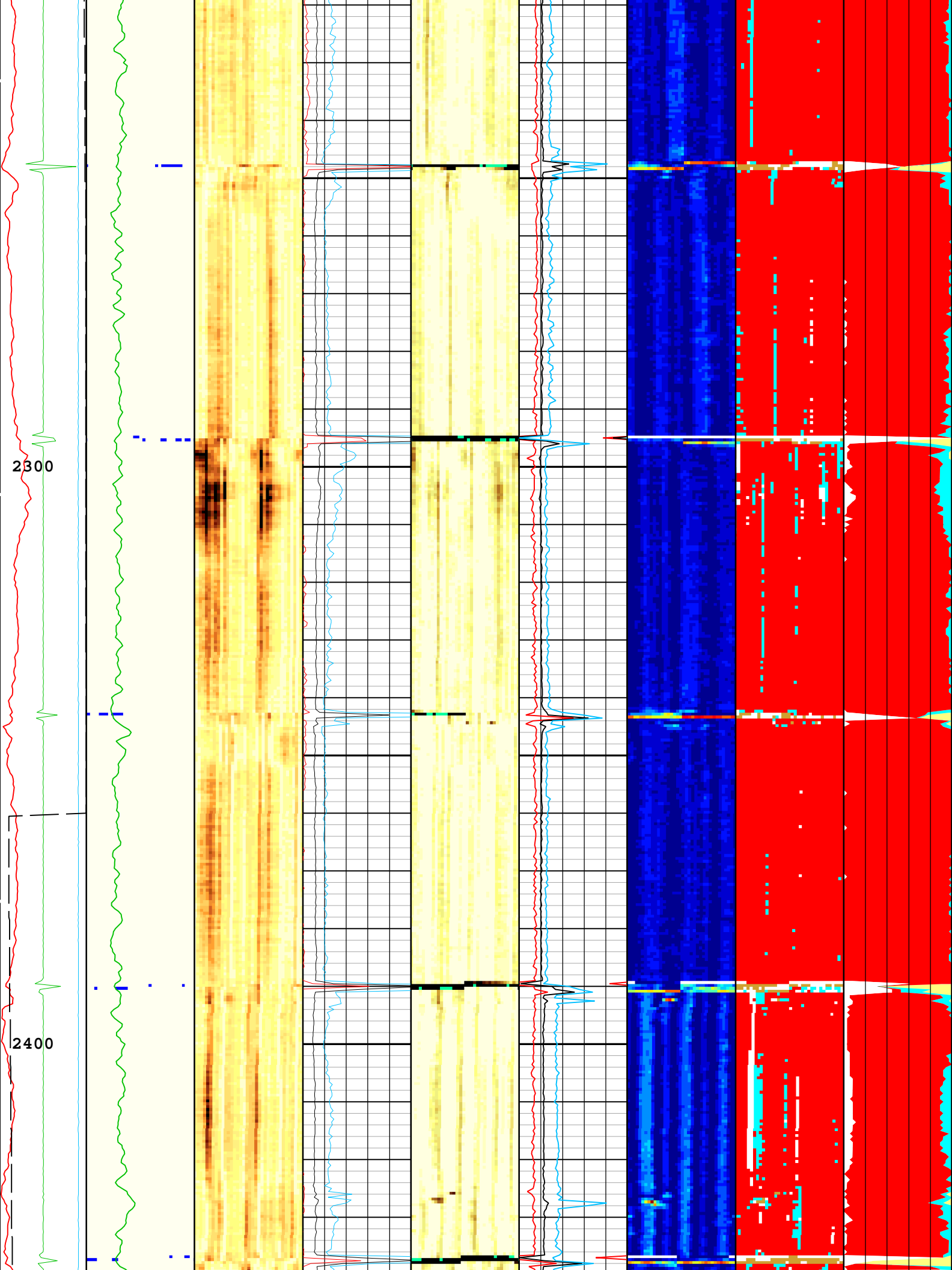
Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 27-Nov-2018
00:04:58

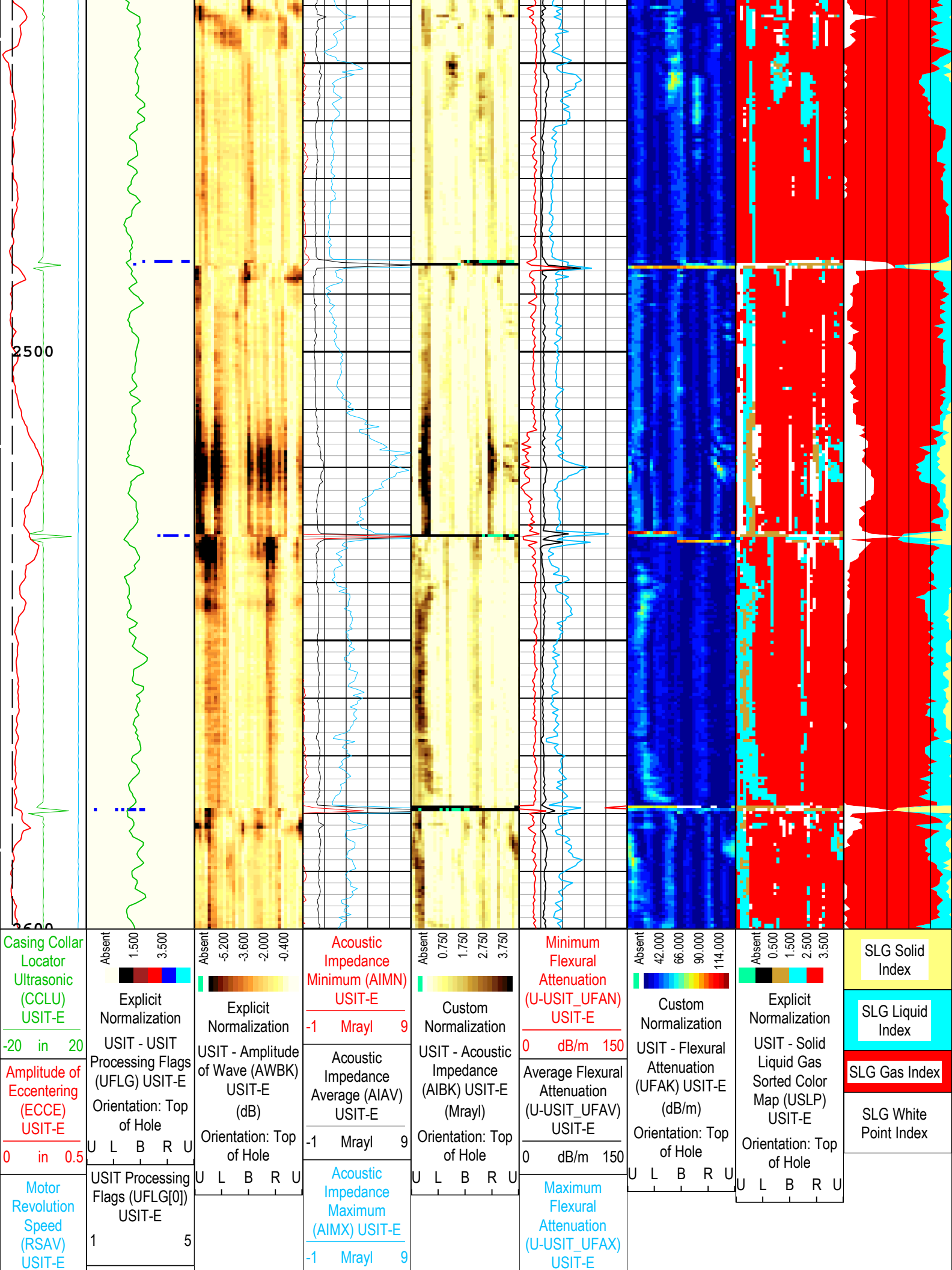
USIT Processing Flags (UFLG[0]) USIT-E

- | | |
|---|---|
| 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)







6	c/s	7.5	Gamma Ray (ECGR_EDTC) EDTC-B	0	dB/m	150
Relative Bearing (RB) USIT-E		0	gAPI	150		
-40 deg 360						
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></div>	UTIM Error			
2 - UFLG 2 Value within [1.5 - 2.5] - :		<div></div>	Pulse Origin Not Detected			
3 - UFLG 3 Value within [2.5 - 3.5] - :		<div></div>	WINLEN Error			
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :		<div></div>	Casing Thickness Error			
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :		<div></div>	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: 27-Nov-2018 00:04:58						
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	12113	ft		
CDEN	Cement Density	USIT-E	12	lbm/gal		
CDEN	Cement Density	EDTC-B	16.69	lbm/gal		
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement			
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal		
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water			
DTMD	Borehole Fluid Slowness	Borehole	204	us/ft		
FD	Fluid Density	USIT-E	10.7	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	-6.51	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			
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		
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	1.75	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-6.69	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
USI_RPLUS	Ultrasonic R+ Processing	USIT-E	No	
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	1.75	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	2429
BS	8.5	2429	2600
All depth are actual.			

Tool Control Parameters				
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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	100	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	125.34	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	89.25	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	152.12	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	31.37	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
U-USIT_UFWE	181.23	25-Nov-2018 13:46:54	25-Nov-2018 13:47:35	2703.15	2684.44

U-USIT_UFWE	188.21	25-Nov-2018 13:47:35	25-Nov-2018 13:55:24	2684.44	2131.86
WINE	77.14	25-Nov-2018 13:46:54	25-Nov-2018 13:47:32	2703.15	2688.05
WINE	88.5	25-Nov-2018 13:47:32	25-Nov-2018 13:55:24	2688.05	2131.86

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[2]:Up	Up	2131.86 ft	2703.15 ft	25-Nov-2018 1:46:54 PM	25-Nov-2018 1:55:24 PM	ON	2.05 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources Operating LLC	Well:Melbon Ranch 4K-17H-M265	One: Log[2]:Up:S010
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Description: USIT IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 27-Nov-2018 00:05:03

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

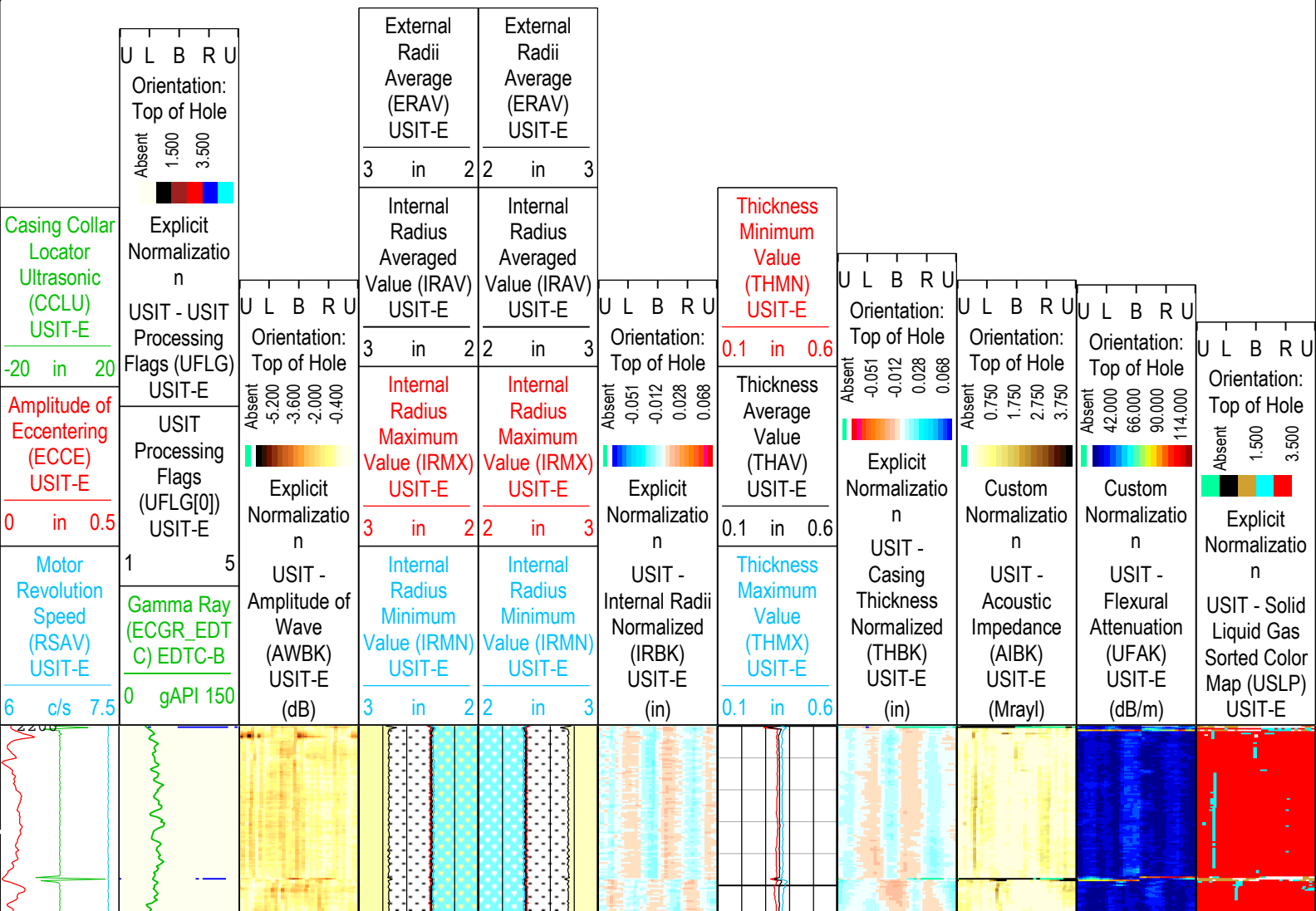
Pulse Origin Not Detected

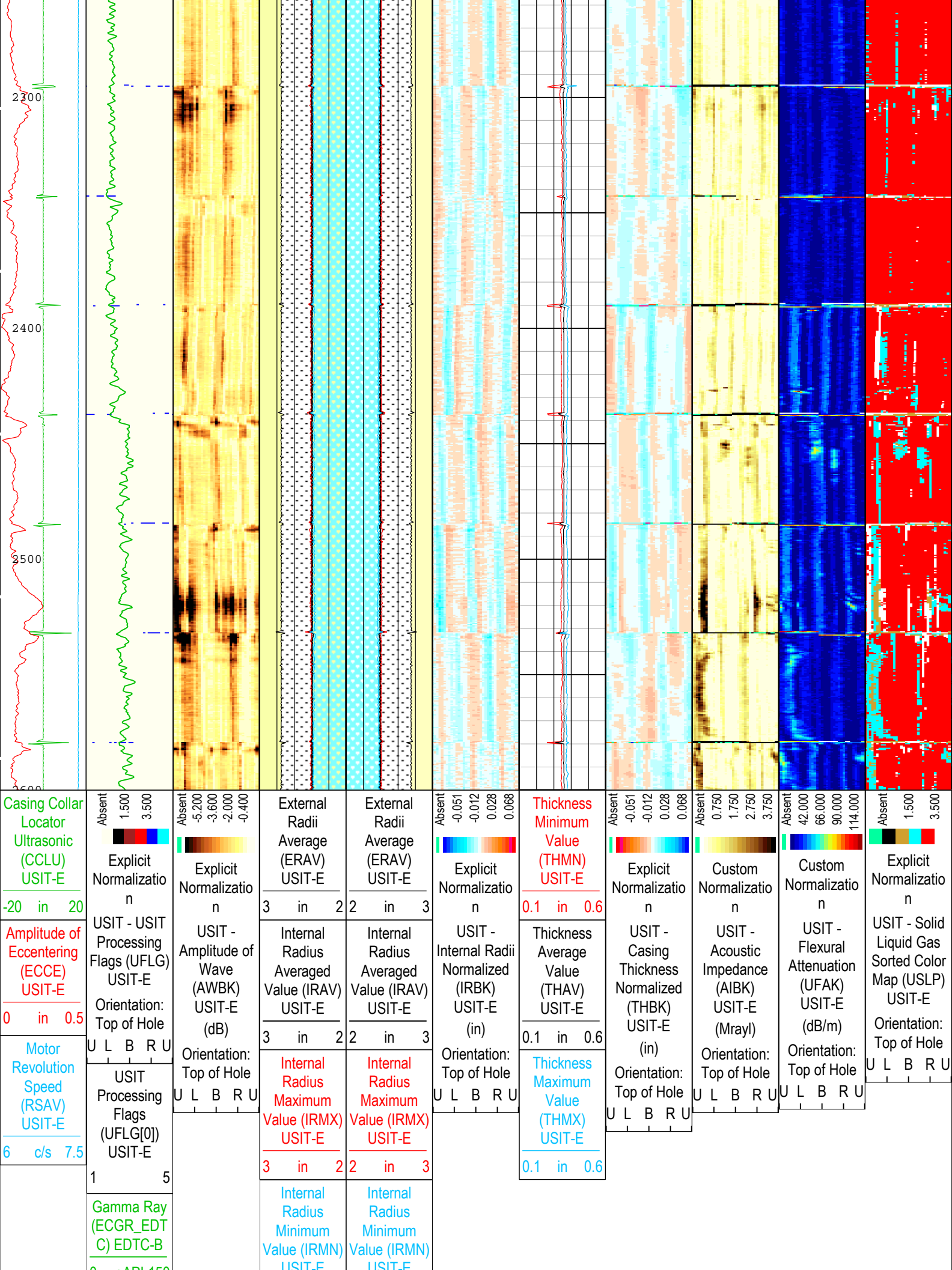
WINLEN Error

Casing Thickness Error

Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)





0 gAPI 150

USIT-E

3 in 2

USIT-E

2 in 3

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] - :

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

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: 27-Nov-2018 00:05:03

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	12113	ft
CDEN	Cement Density	USIT-E	12	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	204	us/ft
FD	Fluid Density	USIT-E	10.7	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	-6.51	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	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.75	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-6.69	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.75	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	2429
BS	8.5	2429	2600

All depth are actual.

Tool Control Parameters

One: 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	100	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	125.34	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	89.25	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	152.12	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	31.37	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
U-USIT_UFWE	181.23	25-Nov-2018 13:46:54	25-Nov-2018 13:47:35	2703.15	2684.44
U-USIT_UFWE	188.21	25-Nov-2018 13:47:35	25-Nov-2018 13:55:24	2684.44	2131.86
WINE	77.14	25-Nov-2018 13:46:54	25-Nov-2018 13:47:32	2703.15	2688.05
WINE	88.5	25-Nov-2018 13:47:32	25-Nov-2018 13:55:24	2688.05	2131.86

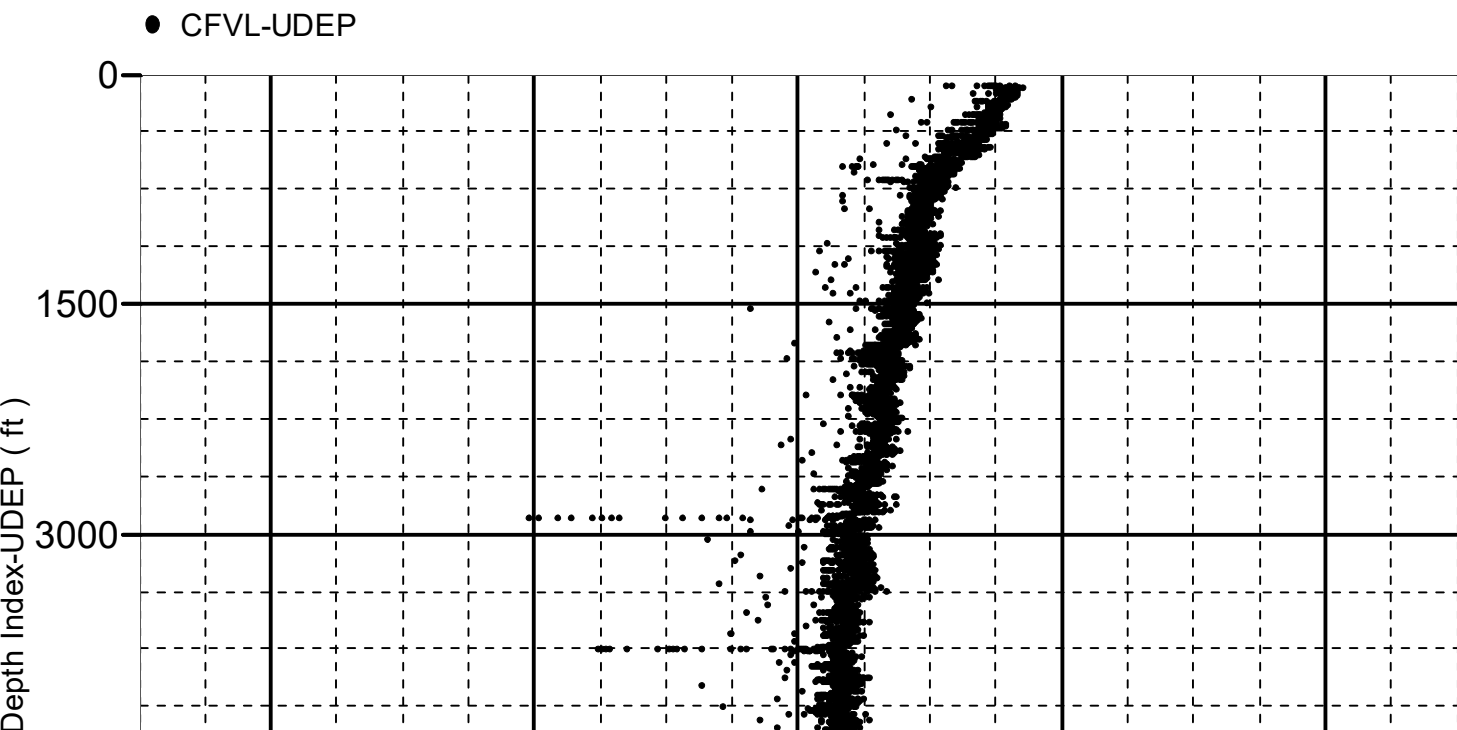
All depth are at tool zero.

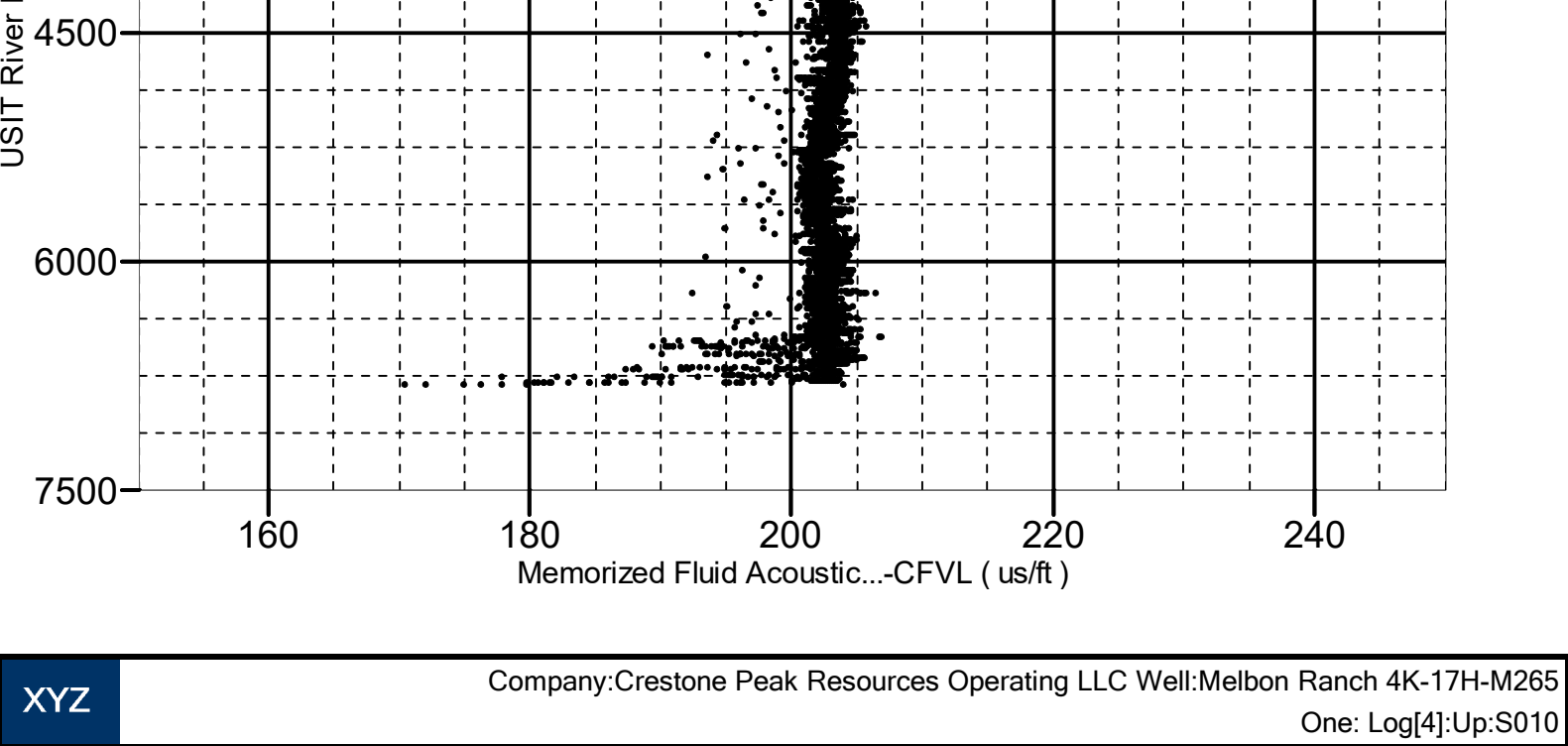
XYZ

Company:Crestone Peak Resources Operating LLC Well:Melbon Ranch 4K-17H-M265
One: Log[4]:Up:S010

Fluid Acoustic Slowness vs Depth
2D Cross Plot

Index Range: From 6820.50 to 68.50 ft

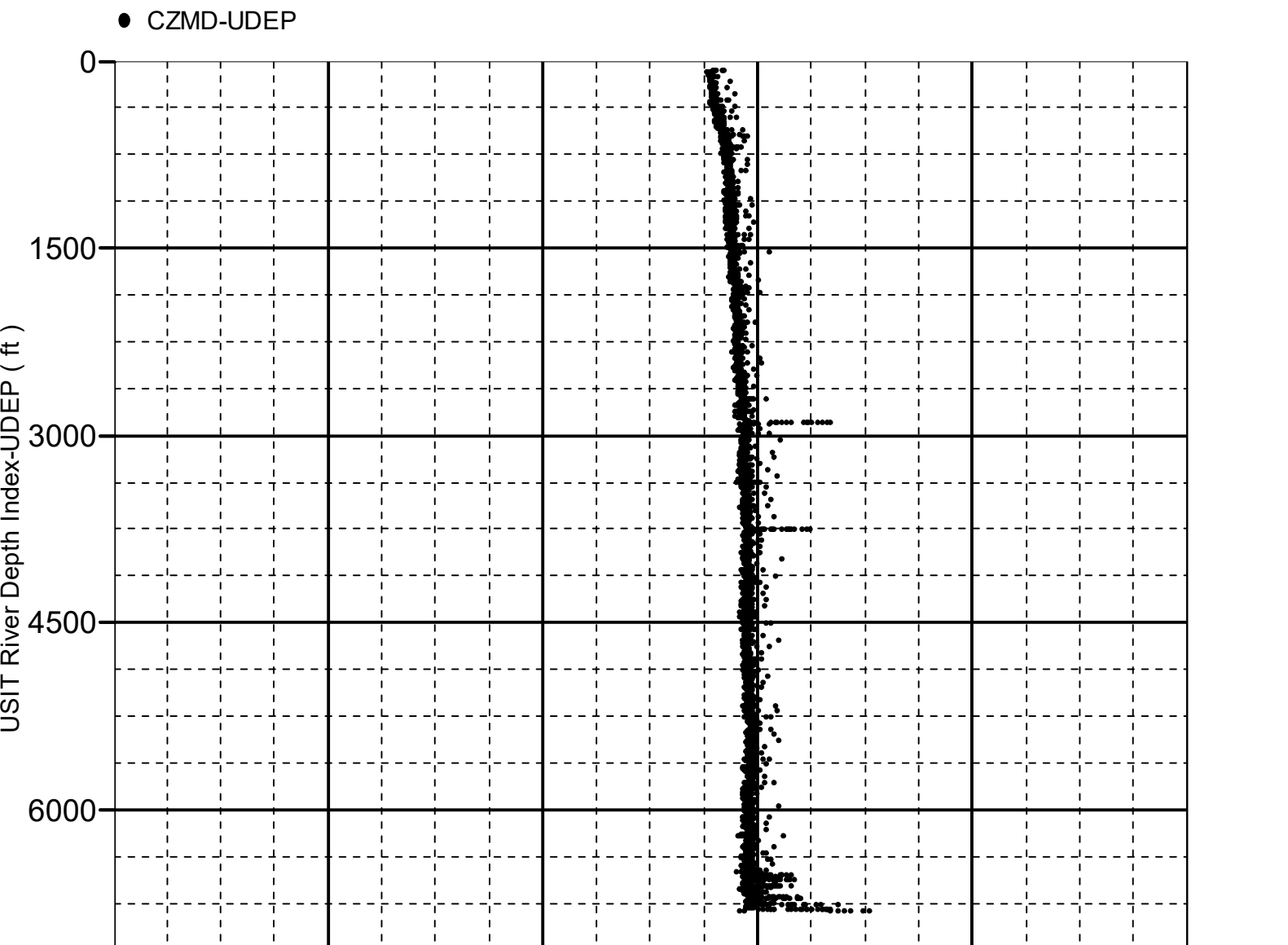


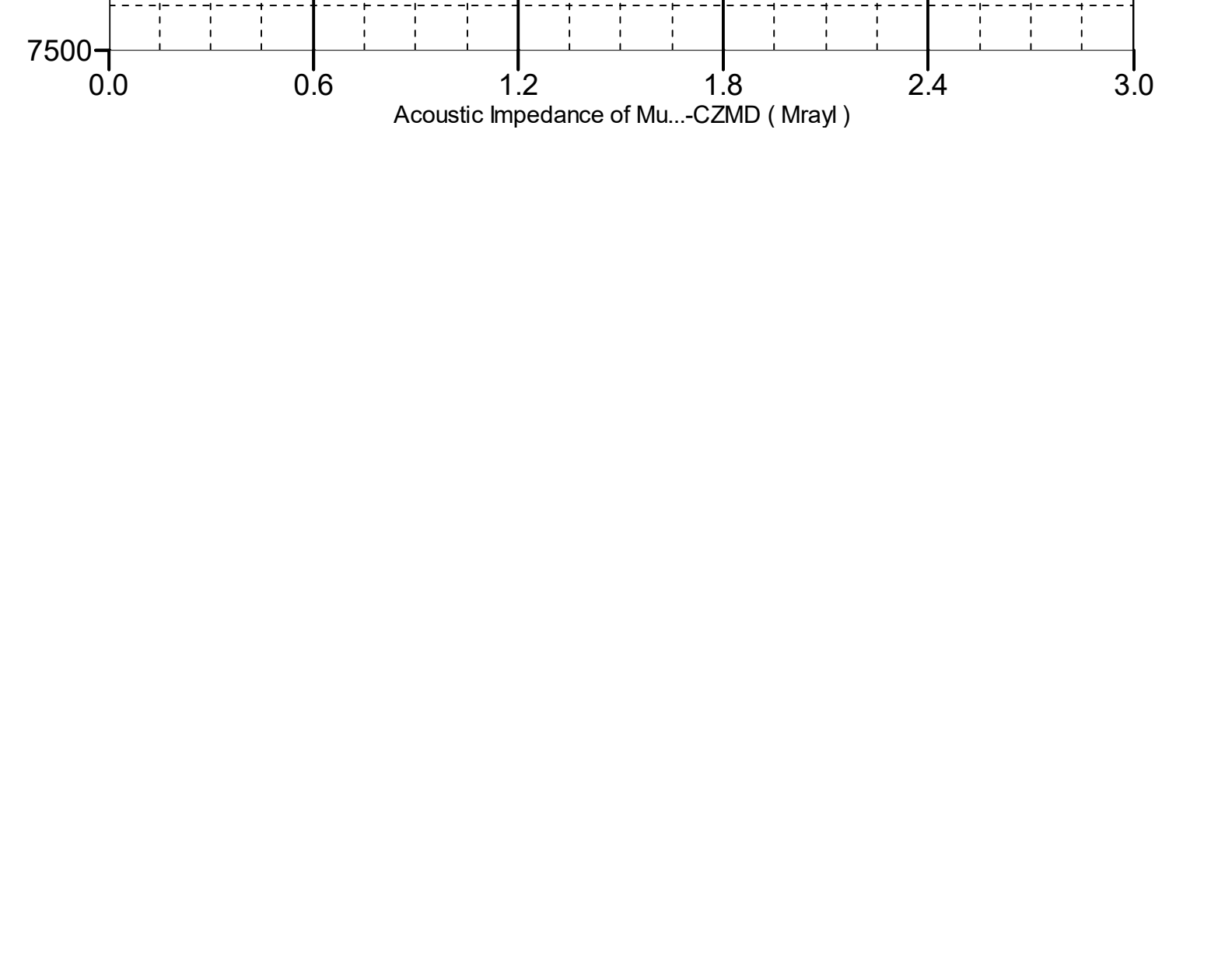


Acoustic Impedance of M ud vs Depth

2D Cross Plot

Index Range: From 6820.50 to 68.50 ft





Company:	Crestone Peak Resources Operating LLC	Schlumberger
Well:	Melbon Ranch 4K-17H-M265	
Field:	Wattenburg	
County:	Weld	
State:	Colorado	
Isolation Scanner		
Cement Evaluation		
Gamma Ray - CCL Log		