

Company: Crestone Peak Resources Operating LLC

Well: Davis 10-9H-G266

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner  
Cement Evaluation  
Gamma Ray - CCL Log

County: Weld  
Field: Wattenberg  
Location: SWSE Sec. 9, T2N, R66W  
Well: Davis 10-9H-G266  
Company: Crestone Peak Resources Operating LLC

Location:	SWSE Sec. 9, T2N, R66W	Elev.:	K.B.	4940.00 ft
	SHL: 2004' FNL & 1448' FEL		G.L.	4917.00 ft
	Lat/Long: 40.154321, -104.7779882		D.F.	4940.00 ft
	Permanent Datum:	Ground Level	Elev.:	4917.00 f
Log Measured From:		Kelly Bushing	23.00 ft	above Perm.Datum
Drilling Measured From:		Kelly Bushing		
API Serial No.	Section:	Township:	Range:	
05-123-46504	9	2N	66W	

Logging Date	22-Sep-2018		
Run Number	ONE		
Depth Driller	14670.00 ft		
Schlumberger Depth	14670.00 ft		
Bottom Log Interval	6908.00 ft		
Top Log Interval	62.00 ft		
Casing Fluid Type	Water		
Salinity			
Density	8.4 lbm/gal		
Fluid Level	8.00 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.50 in		
From	2165.00 ft		
To	14670.00 ft		
Casing/Tubing Size	5.5 in		
Weight	20 lbm/ft		
Grade	P110		
From	0.00 ft		
To	14670.00 ft		
Max Recorded Temperatures	189.3 degF		
Logger on Bottom	22-Sep-2018	16:04:00	
Unit Number	Location:	Time	
Recorded By	9108	A.BLOCHOWICZ	Fort Morgan, CO
Witnessed By	DUANE DUNN		

Disclaimer

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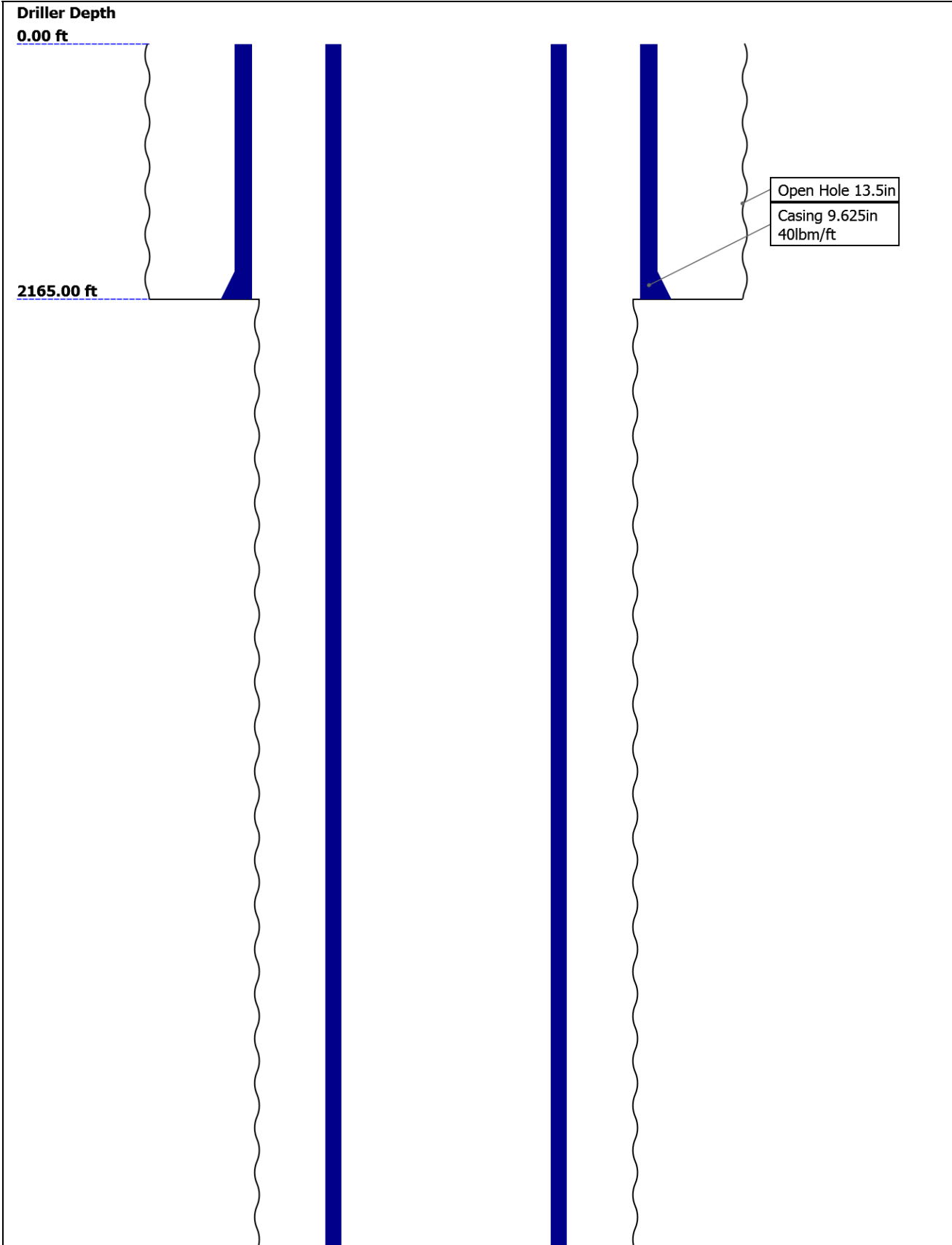
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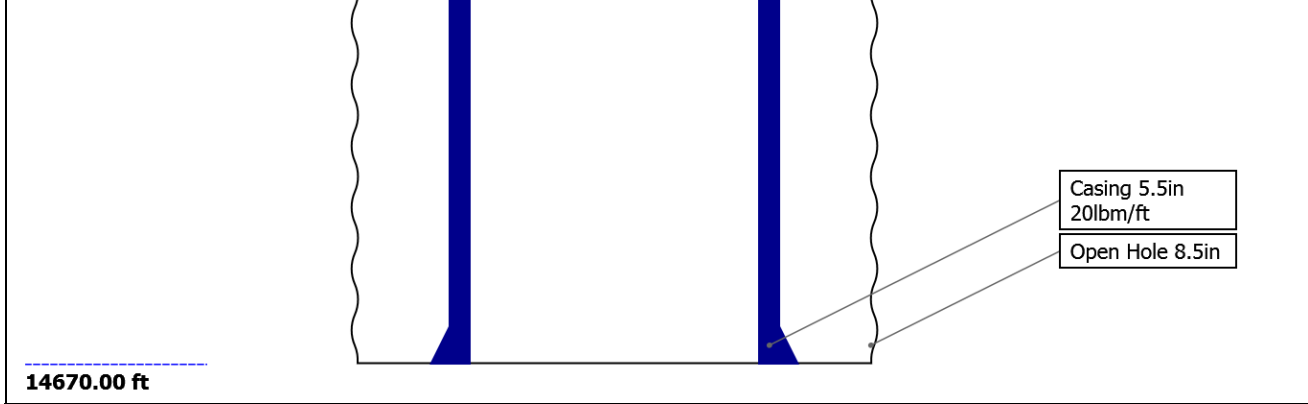
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Well Sketch



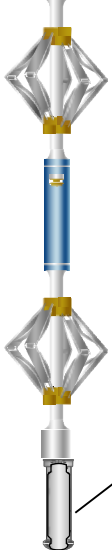


Borehole Size/Casing/Tubing Record

Bit						
Bit Size ( in )	13.5	8.5				
Top Driller ( ft )	0	2165				
Top Logger ( ft )	0	2165				
Bottom Driller ( ft )	2165	14670				
Bottom Logger ( ft )	2165	14670				
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 )	2165	14670				
Bottom Logger ( ft )	2165	14670				

Remarks and Equipment Summary

ONE: Toolstring			ONE: Remarks	
<div><div><div>Equip nameLength</div><div>LEH-QT30.73</div><div>LEH-QT</div></div><div><div>EDTC-B:827.24</div><div>473M</div><div>EDTH-B:8624</div><div>EDTG-A:77434</div><div>EDTC-B:8473M</div></div><div><div>AH-184[2]:5941</div><div>AH-184[1]:5965</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>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>	Thank you for choosing Schlumberger!			
	Tool string run as per tool sketch and client logging program.			
	5" Gemcos and in-line centralizers with small hole kit used for centralization.			
	All passes run under 0 PSI			
	Lead: 12.5 ppg Tail: 13.5 ppg Spacer: 12 ppg			
	High deviation (30 deg) and dogleg severity affected data throughout the well.			

USIS-A:18 32 USSC-B:17 78 IBCS-A:75 3 FAR-SENS OR:3636 IBC-TX NEAR-SEN SOR:4784 IBC-TX USI-SENS OR:4615 IBC-TX EMITTER- SENSOR:4 495 IBC-TX	 <p><b>USI Sen 0.84 sor Head Te nsion</b></p> <p>TOOL_ZERO</p> <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	6455		
Calibration Date	26-JUL-2018		
Calibrator Serial Number	IDWC-C-57		
Calibration Cable Type	7-32 ASXS		
Wheel Correction 1	-1		
Wheel Correction 2	1		
Tension Device			
Type	CMTD-B/A		
Serial Number	1703		
Calibration Date	29-Jul-2018		
Calibrator Serial Number	88310A		
Number of Calibration Points	10		
Calibration Root Mean Square Error	6		
Calibration Peak Error	9		
Logging Cable			
Type	7-32AS-XS		
Serial Number	U718001		
Length	20000.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane USA		
ONE:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well	All Schlumberger depth control policies followed.	
Rig Up Length At Surface		IDW used as primary depth reference.	
Rig Up Length At Bottom		Z-chart used as secondary depth reference.	
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[7]:Up	6914.42	1905.66

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 : 728.04m(2388.57ft) to 732.04m(2401.70ft)  
MUD\_N\_FRP = 1.20  
DFD = 1.01g/cm3(8.40lbm/gal)  
CZMD median computed in free pipe normalization interval = 1.77 MRayl

Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
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Composite 1

IBC SLG

Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[7]:Up	Up	1905.66 ft	6914.42 ft	22-Sep-2018 4:04:21 PM	22-Sep-2018 5:15:33 PM	ON	8.03 ft	Yes
ONE	Log[8]:Up	Up	58.28 ft	1931.60 ft	22-Sep-2018 5:24:38 PM	22-Sep-2018 5:54:42 PM	ON	8.29 ft	Yes






All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources Operating LLC      Well:Davis 1O-9H-G266 Composite 1:S005
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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: 23-Sep-2018 15:09:54

TIME\_1900 - Time Marked every 60.00 (s)


USIT Processing Flags (UFLG[0]) USIT-E[1]


- 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


Casing Collar Locator Ultrasonic (CCLU) USIT-E[1]  
-20 in 20

Amplitude of Eccentering (ECCE) USIT-E[1]  
0 in 0.5

Motor Revolution Speed

Absent 1.500 3.500  
  
Explicit Normalization  
USIT - USIT Processing Flags (UFLG) USIT-E[1]

Absent 5.200 3.600 2.000 0.400  
  
Explicit Normalization  
USIT - Amplitude

Absent 1 5  
  
Gamma Ray (GGR, EDTG)

Acoustic Impedance Minimum (AIMN) USIT-E[1]  
-1 Mrayl 9


Acoustic Impedance Average (AIAV) USIT-E[1]  
-1 Mrayl 9


Acoustic Impedance Maximum  
USIT - Acoustic


Minimum Flexural Attenuation (U-USIT\_UFAN) USIT-E[1]  
0 dB/m 150

Average Flexural Attenuation (U-USIT\_UFAV) USIT-E[1]  
0 dB/m 150

Maximum Flexural Attenuation

Absent 0.750 1.750 2.750 3.750  
  
Custom Normalization  
USIT - Acoustic

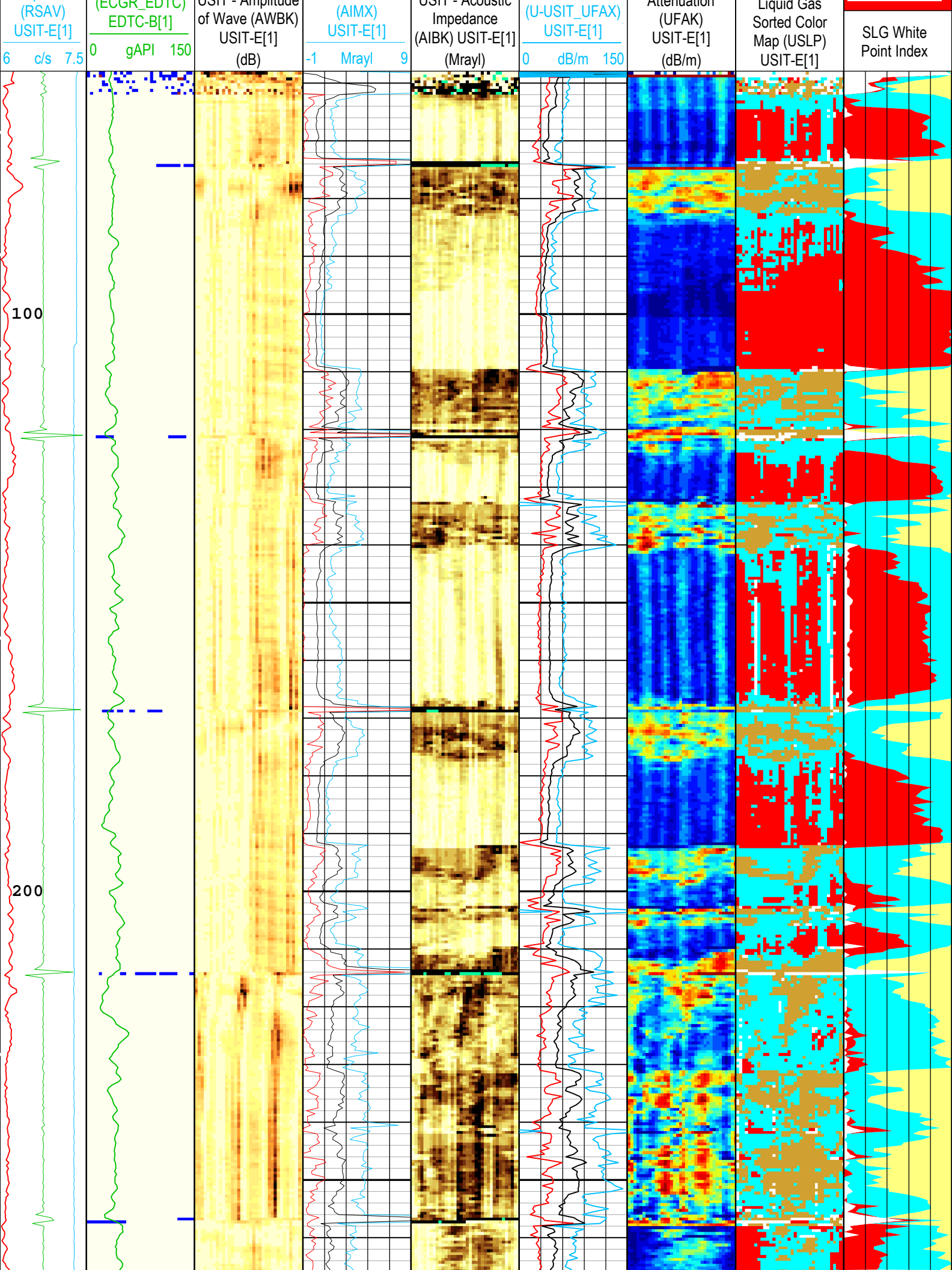
Absent 42.000 66.000 90.000 114.000  
  
Custom Normalization  
USIT - Flexural Attenuation

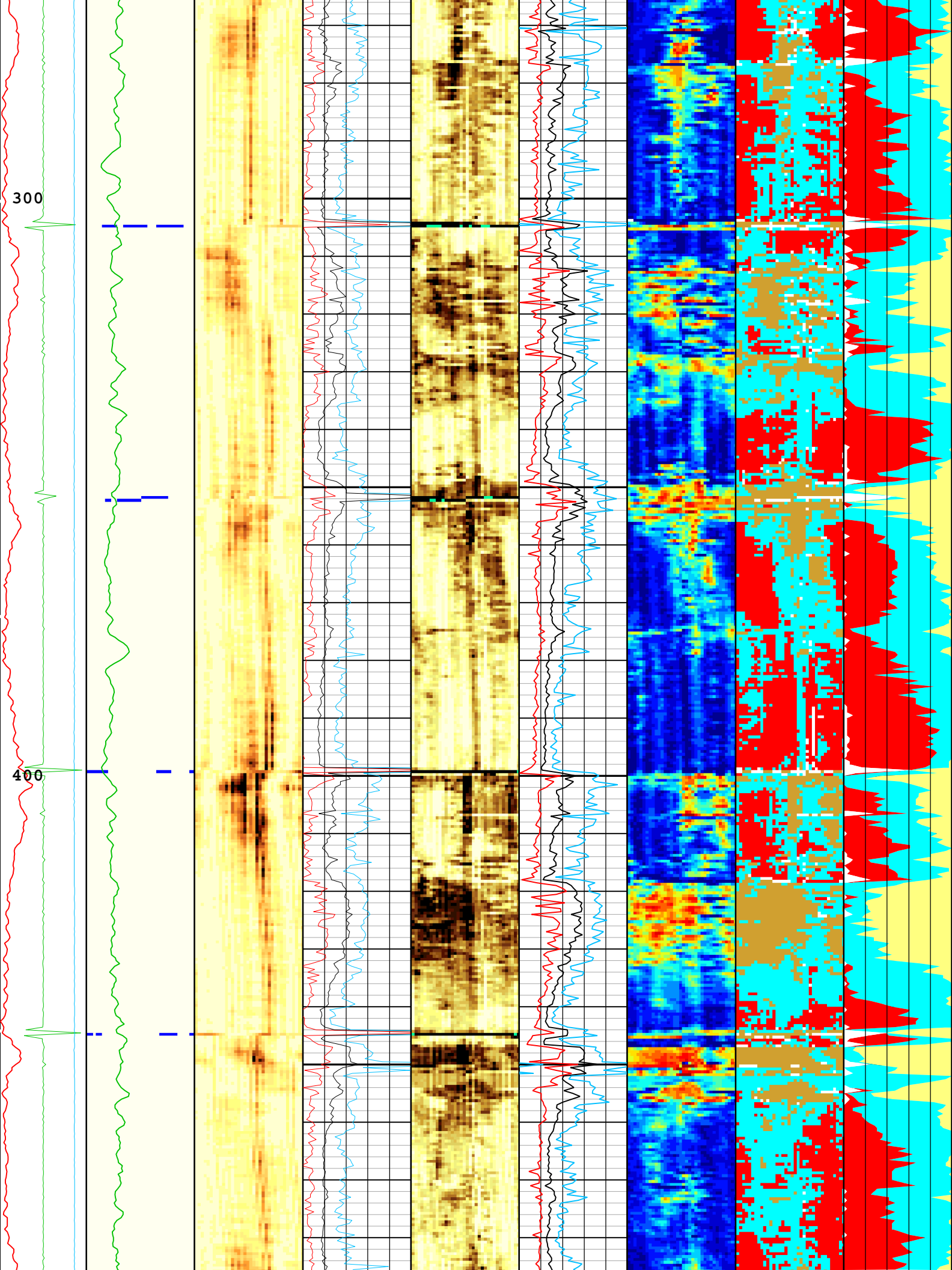
Absent 0.500 1.500 2.500 3.500  
  
Explicit Normalization  
USIT - Solid Liquid Gas

SLG Solid Index

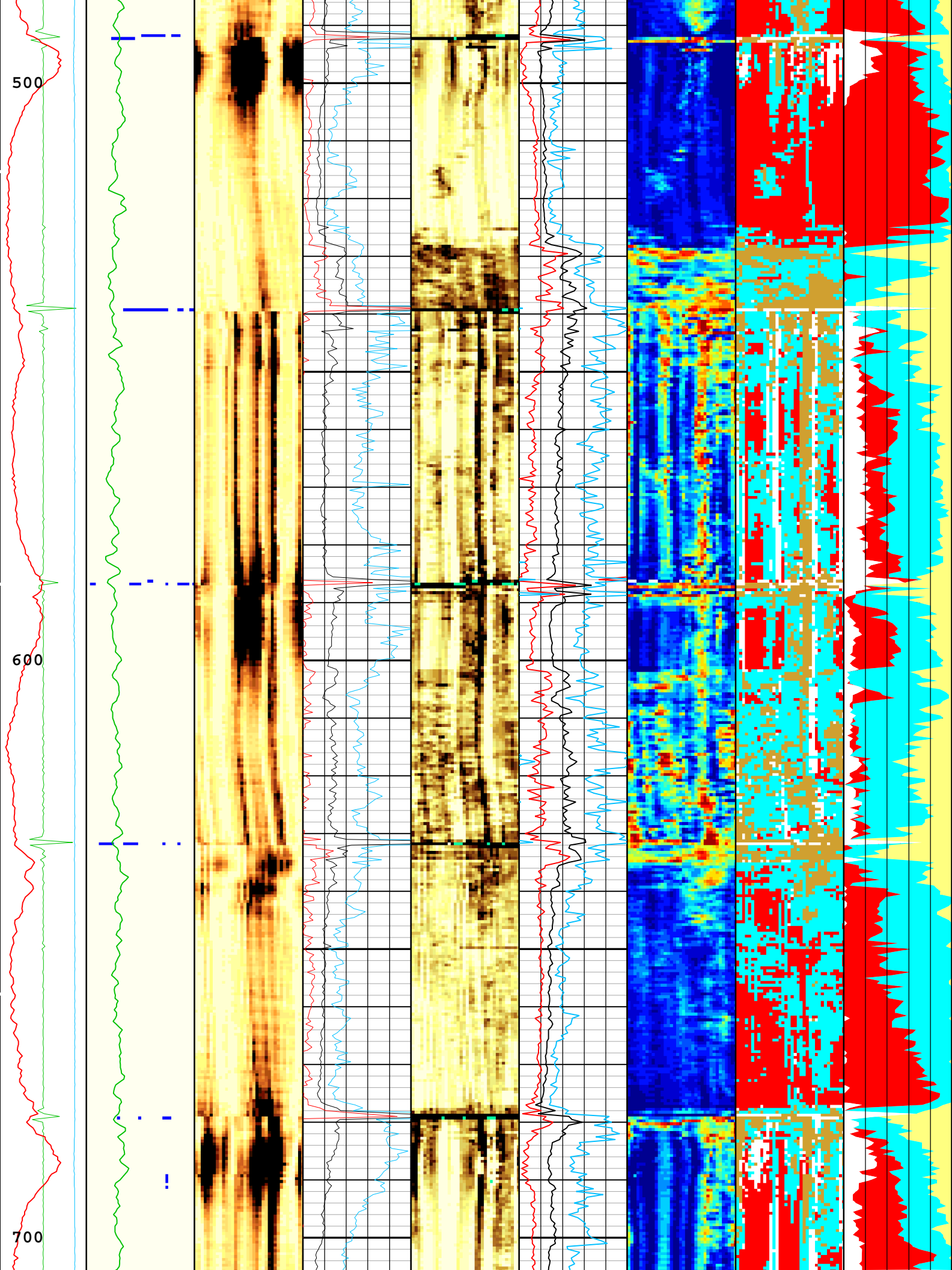
SLG Liquid Index

SLG Gas Index

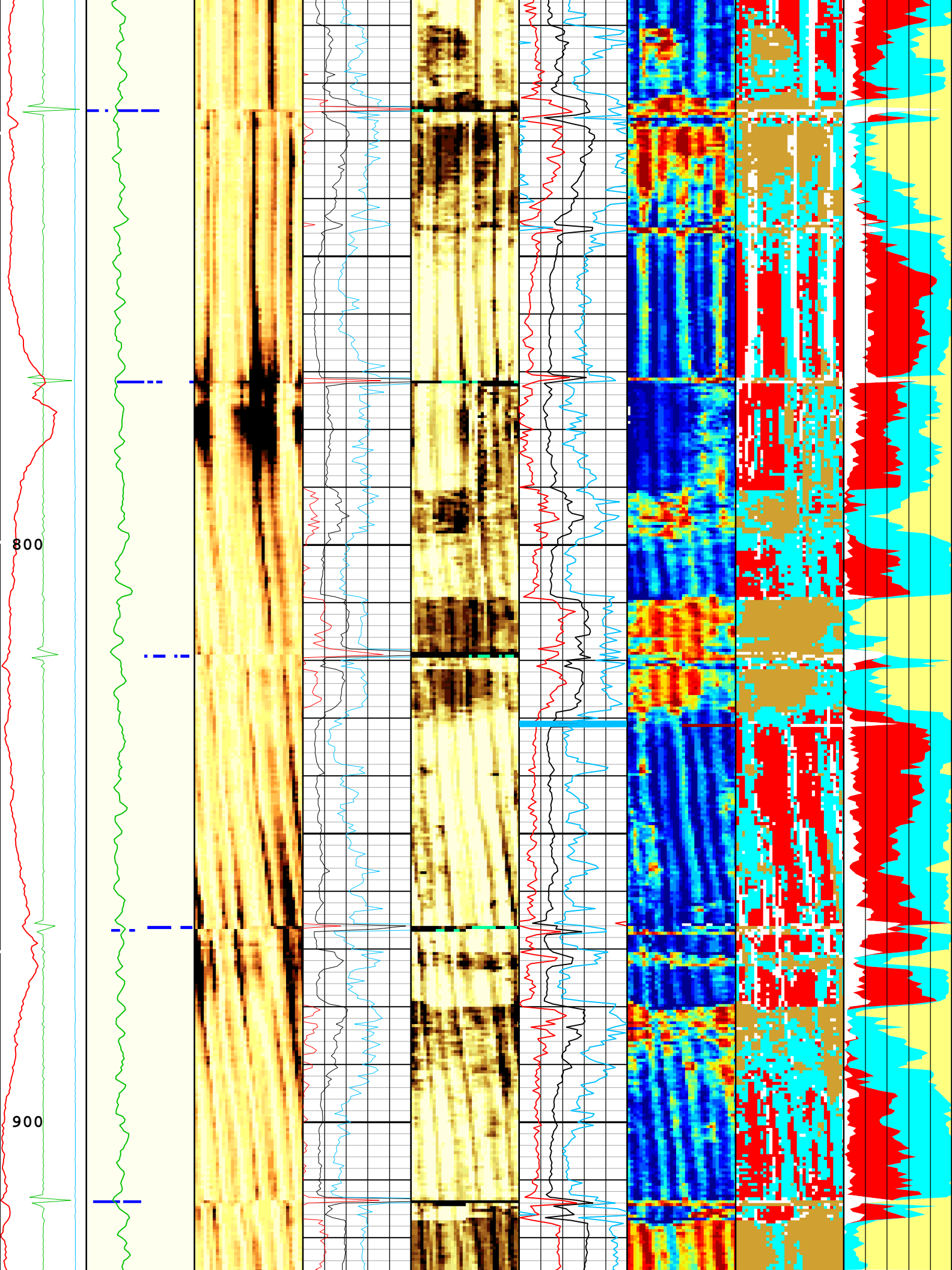


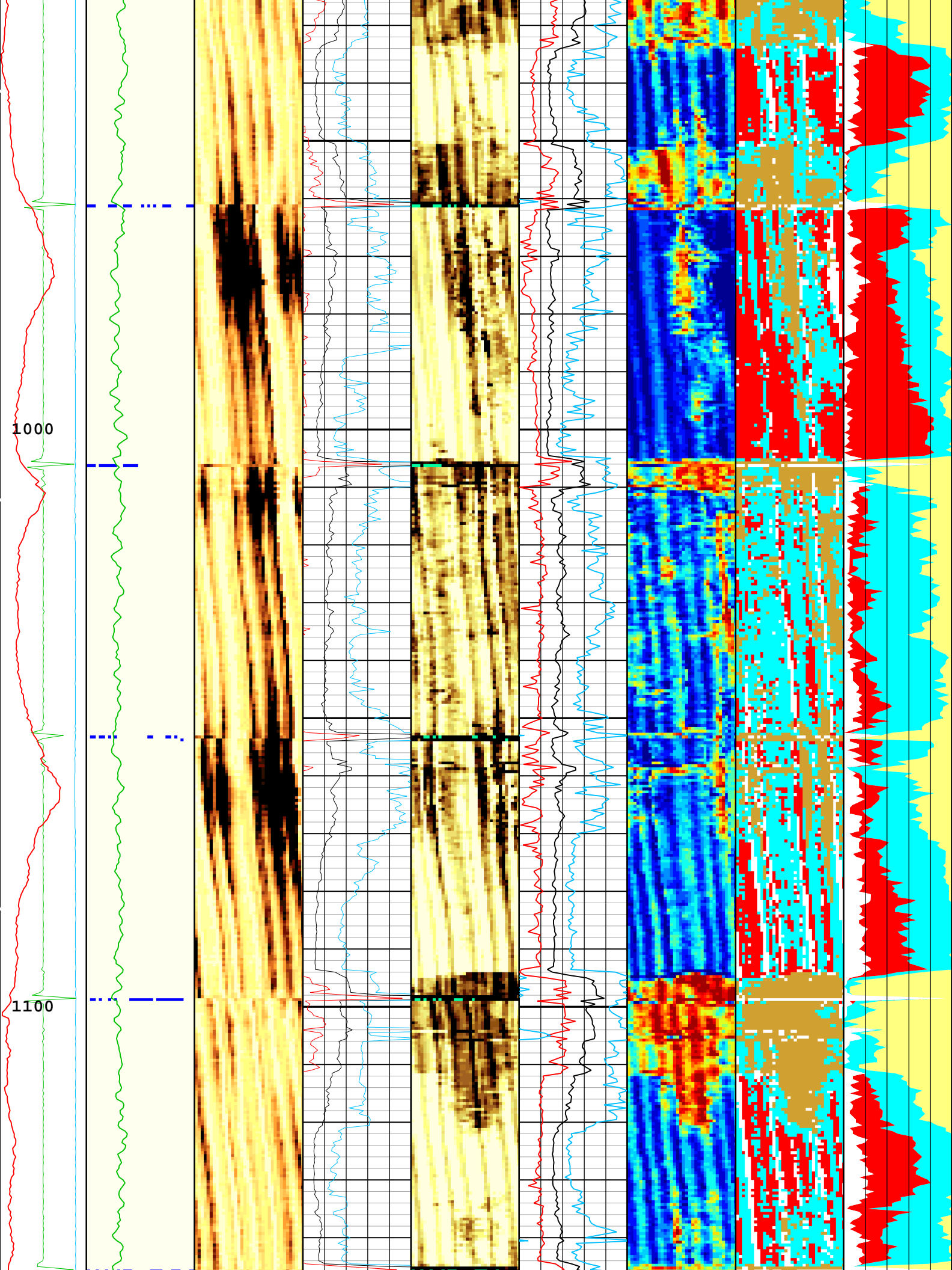


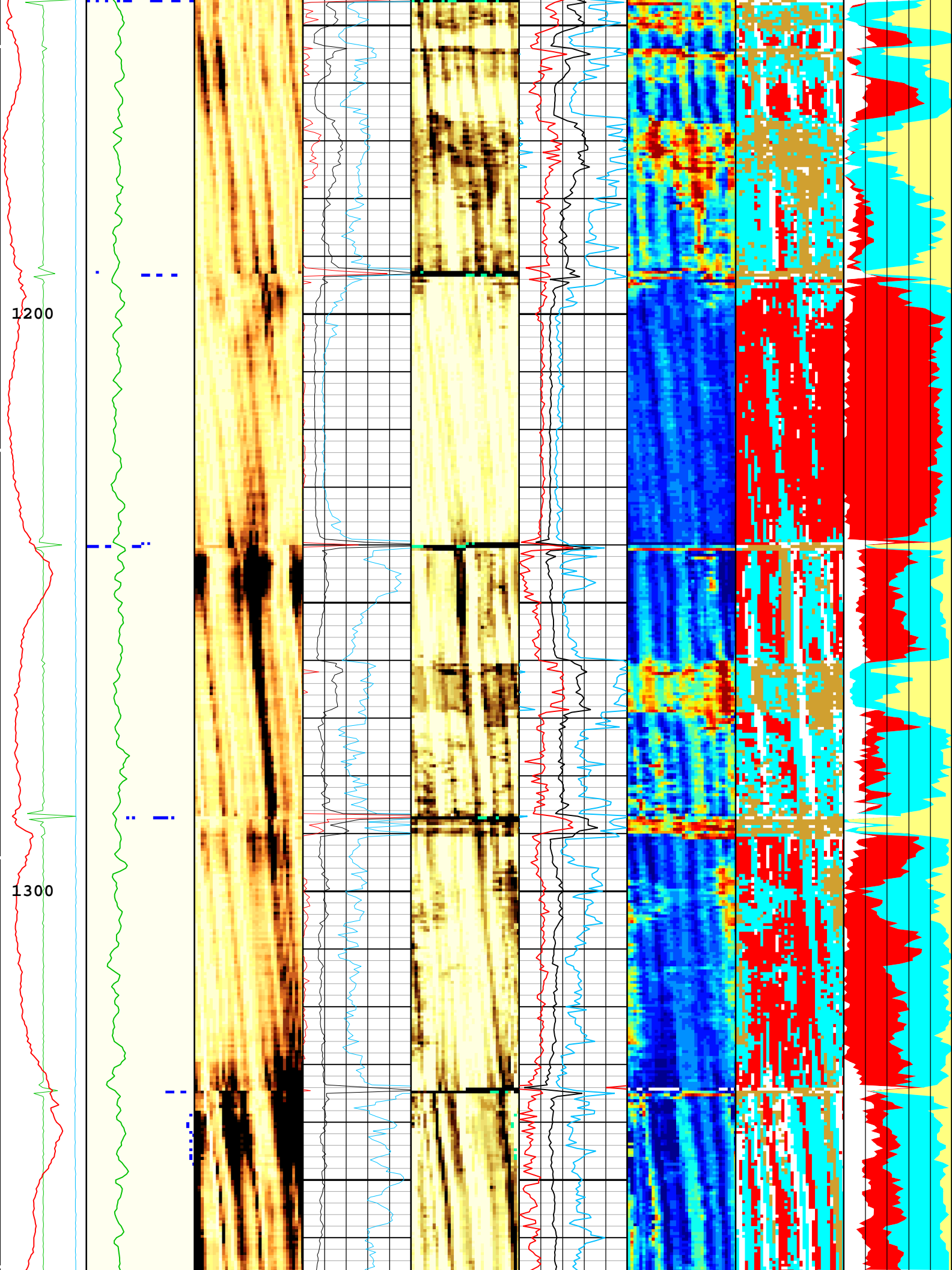


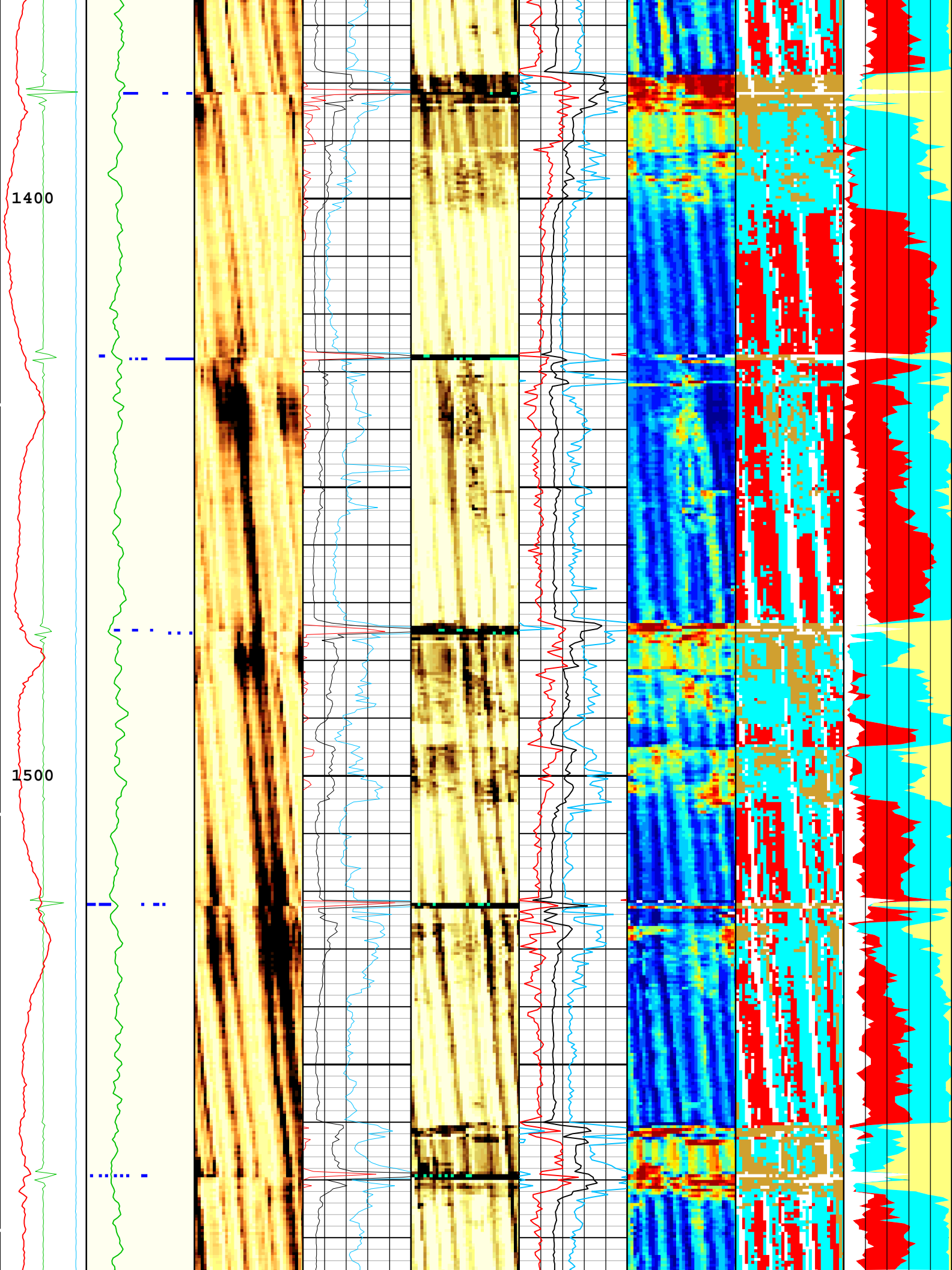


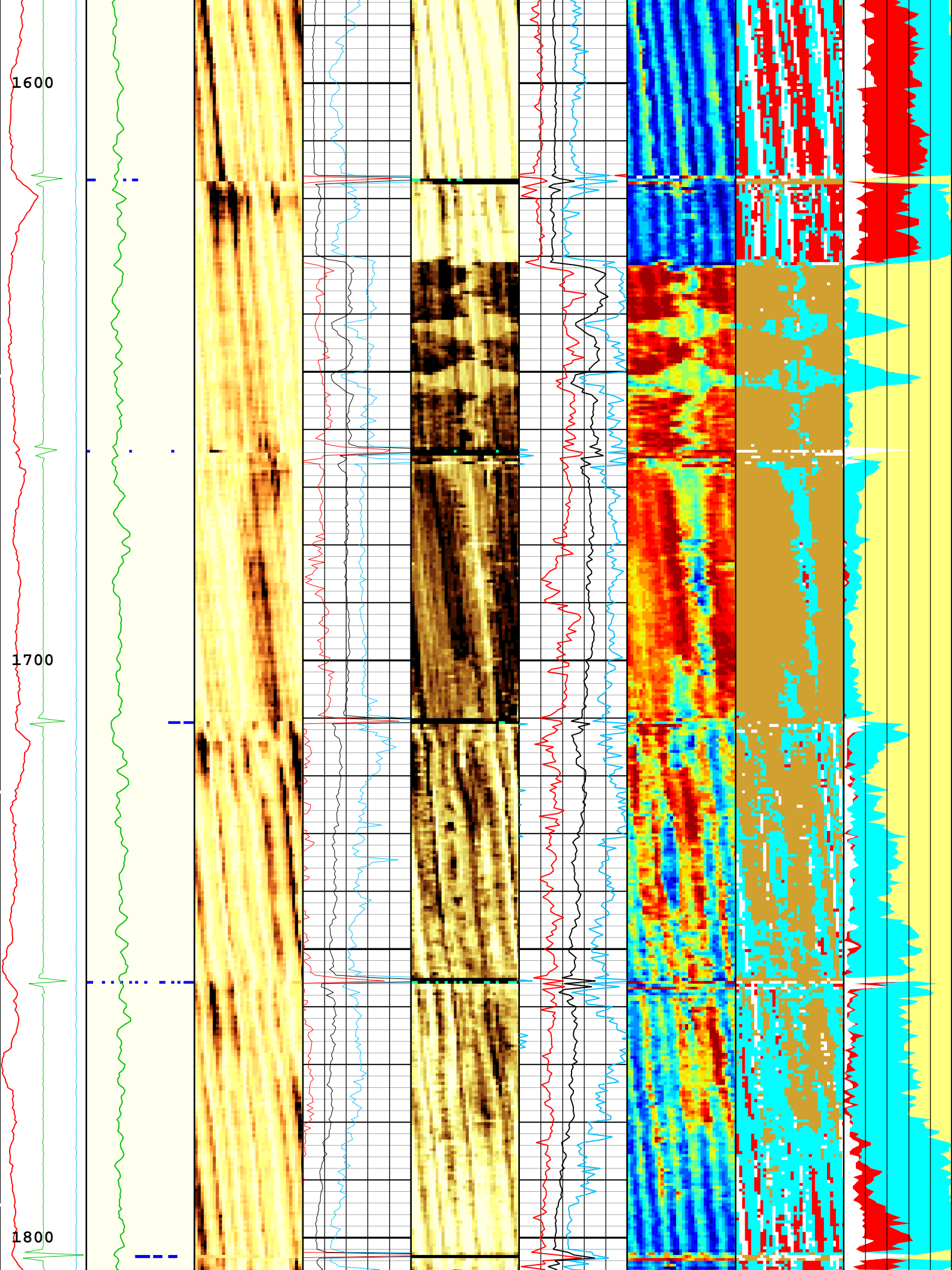




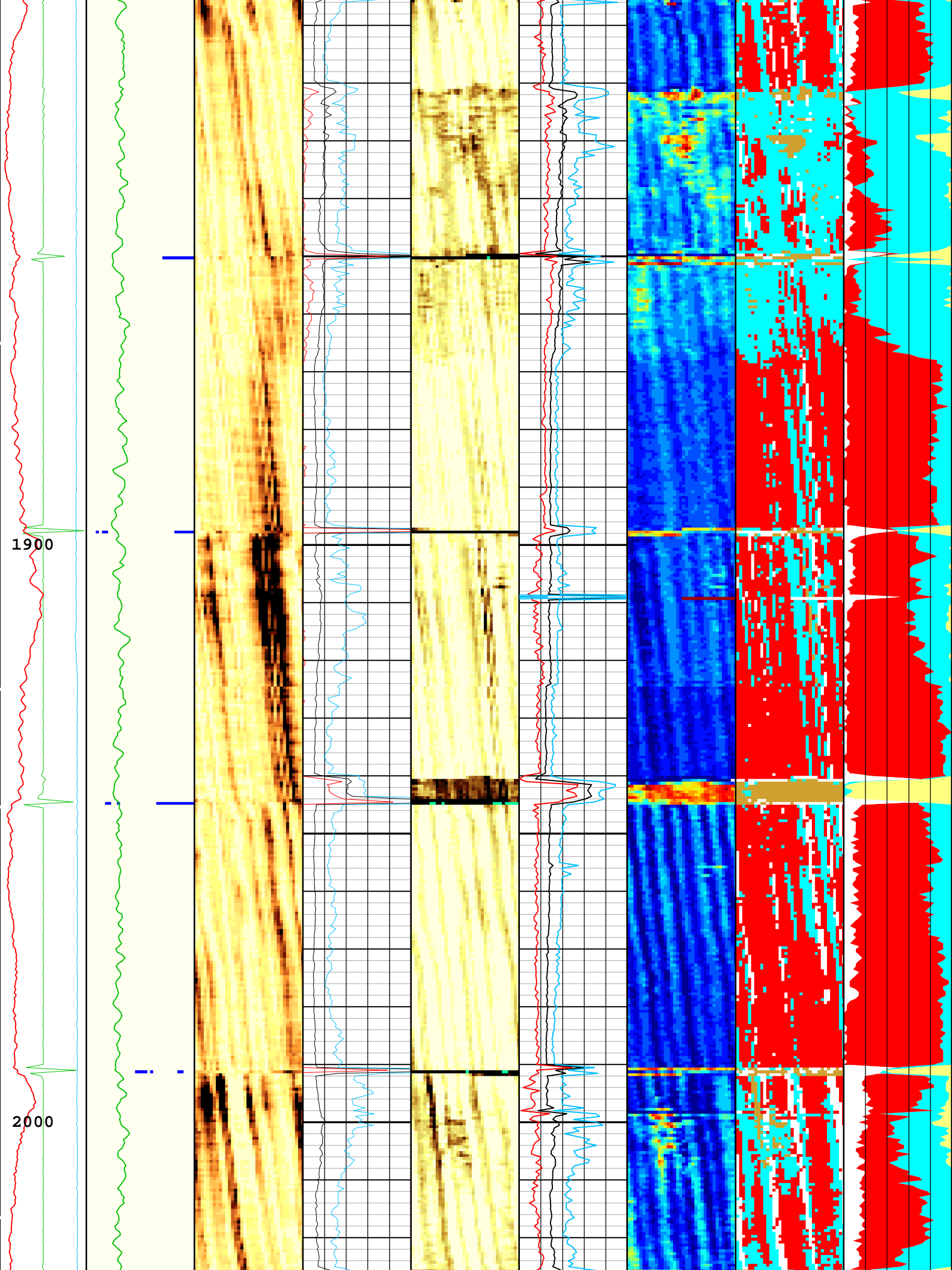


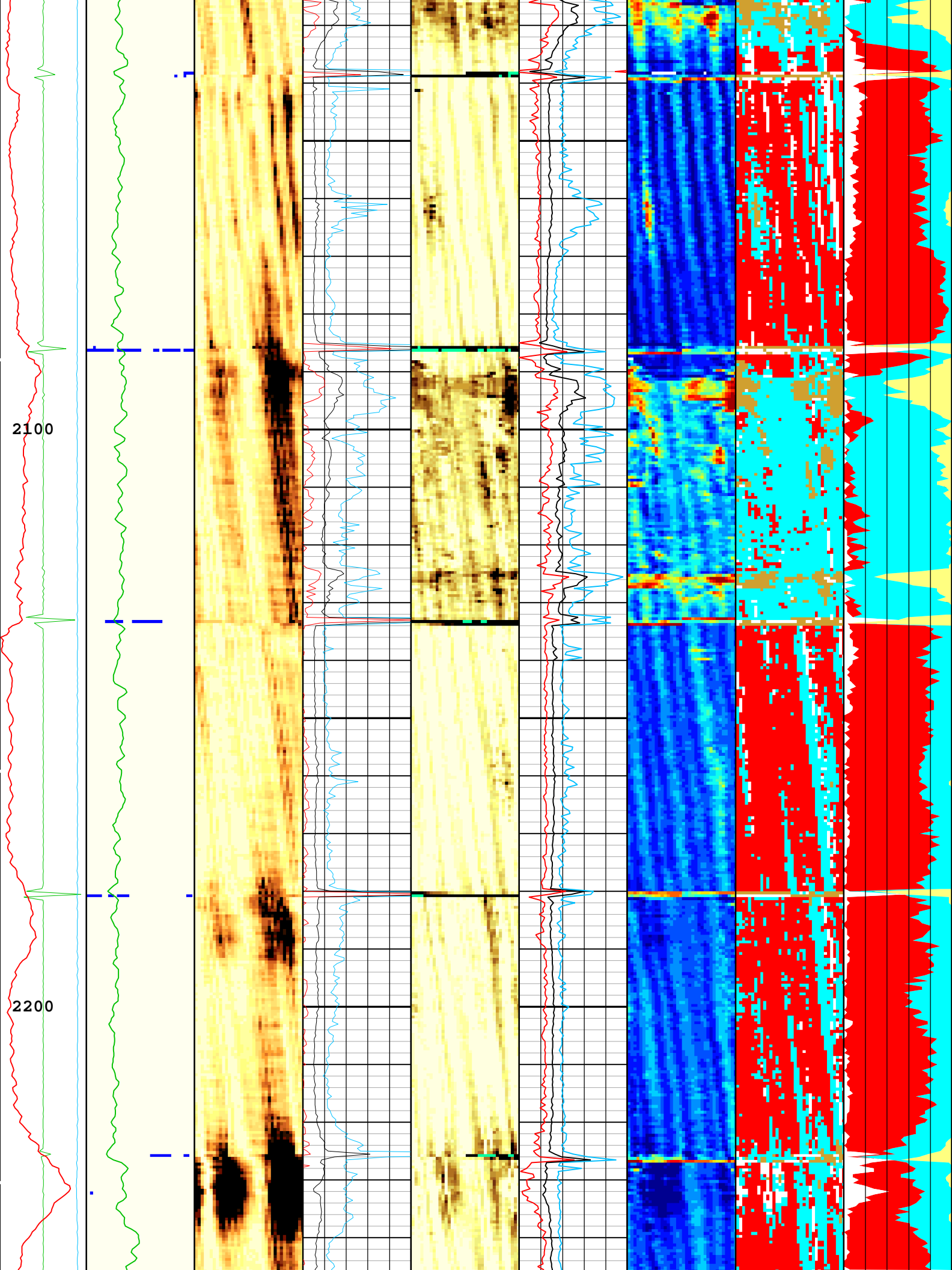




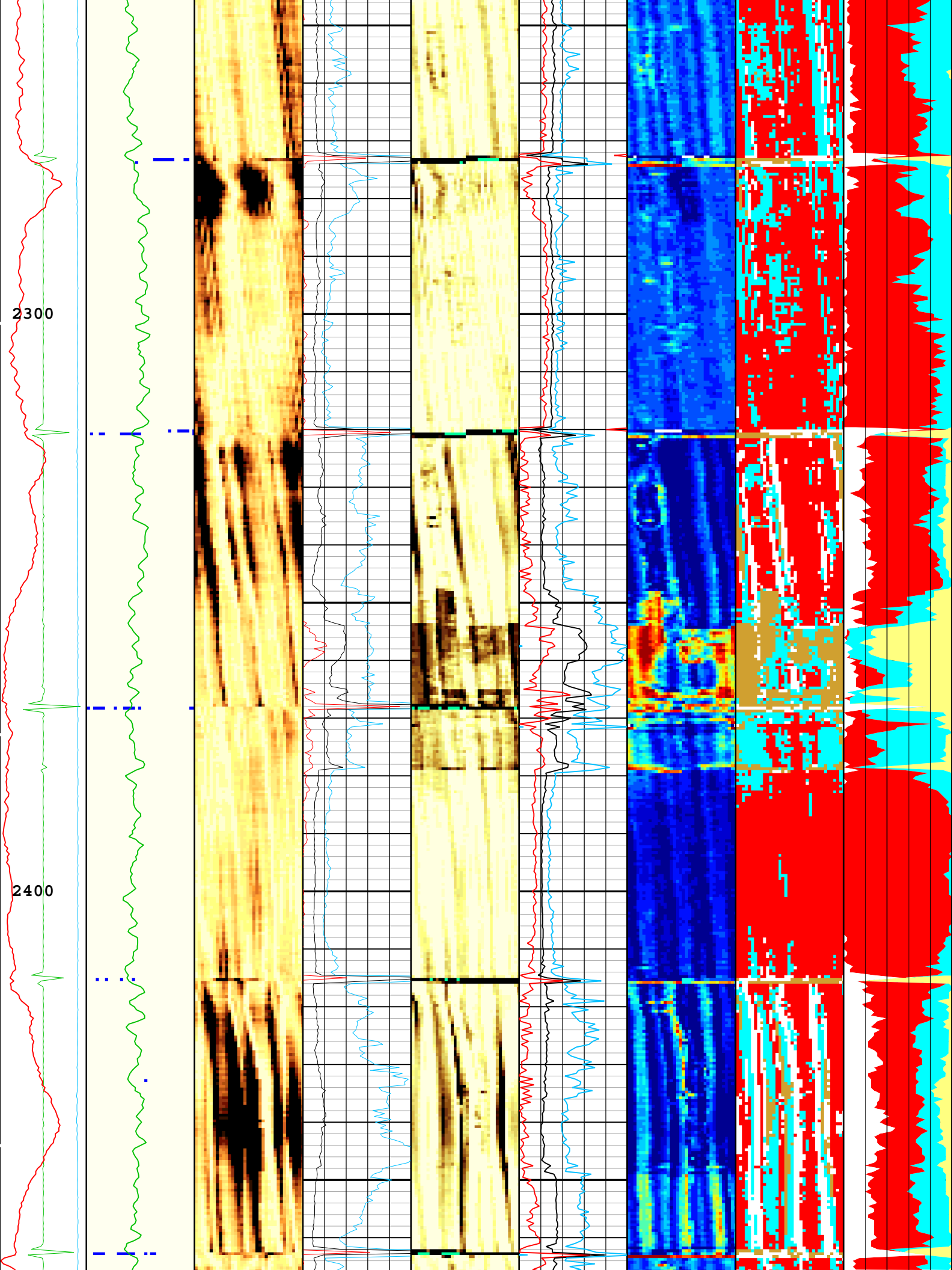


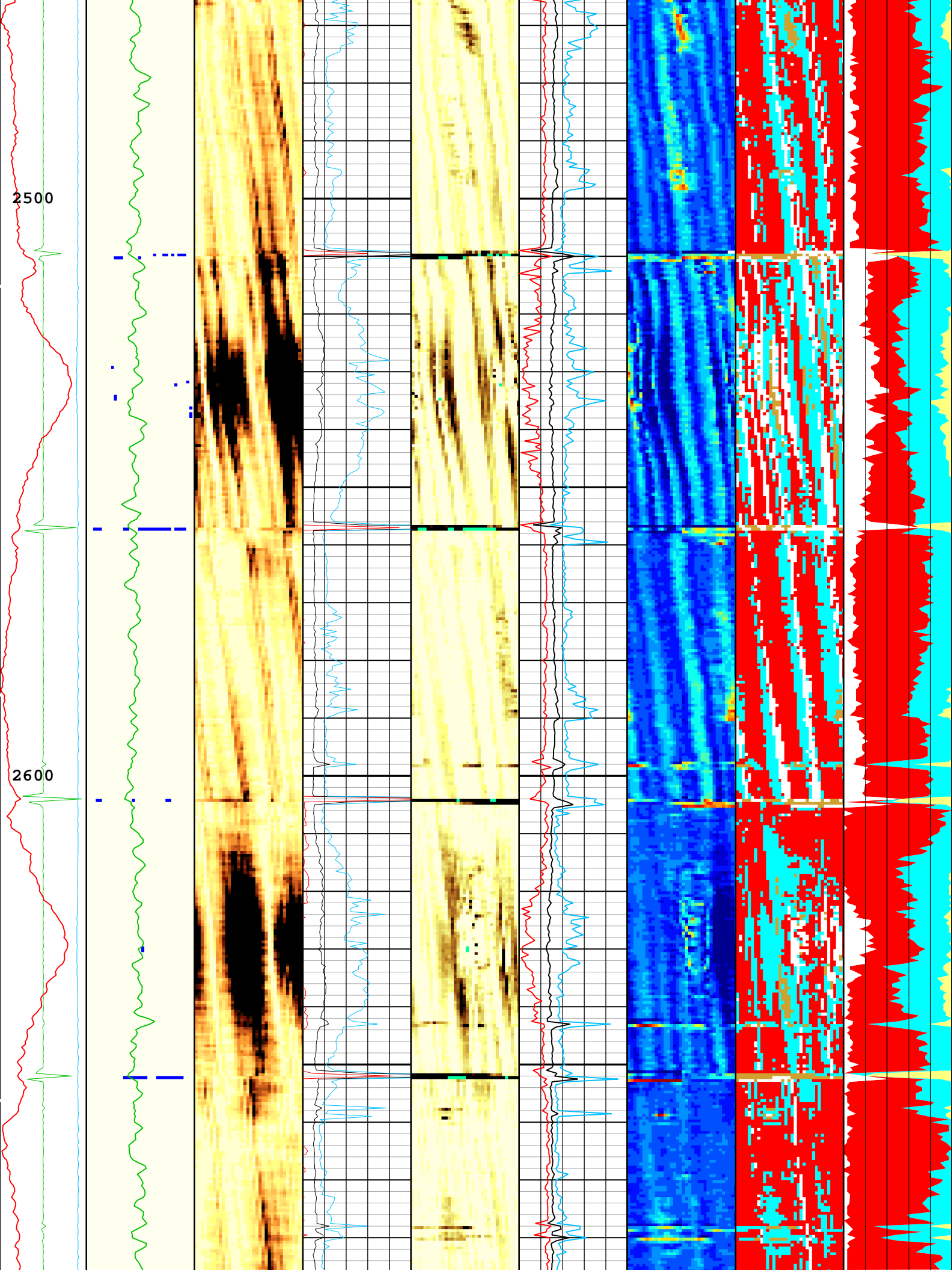


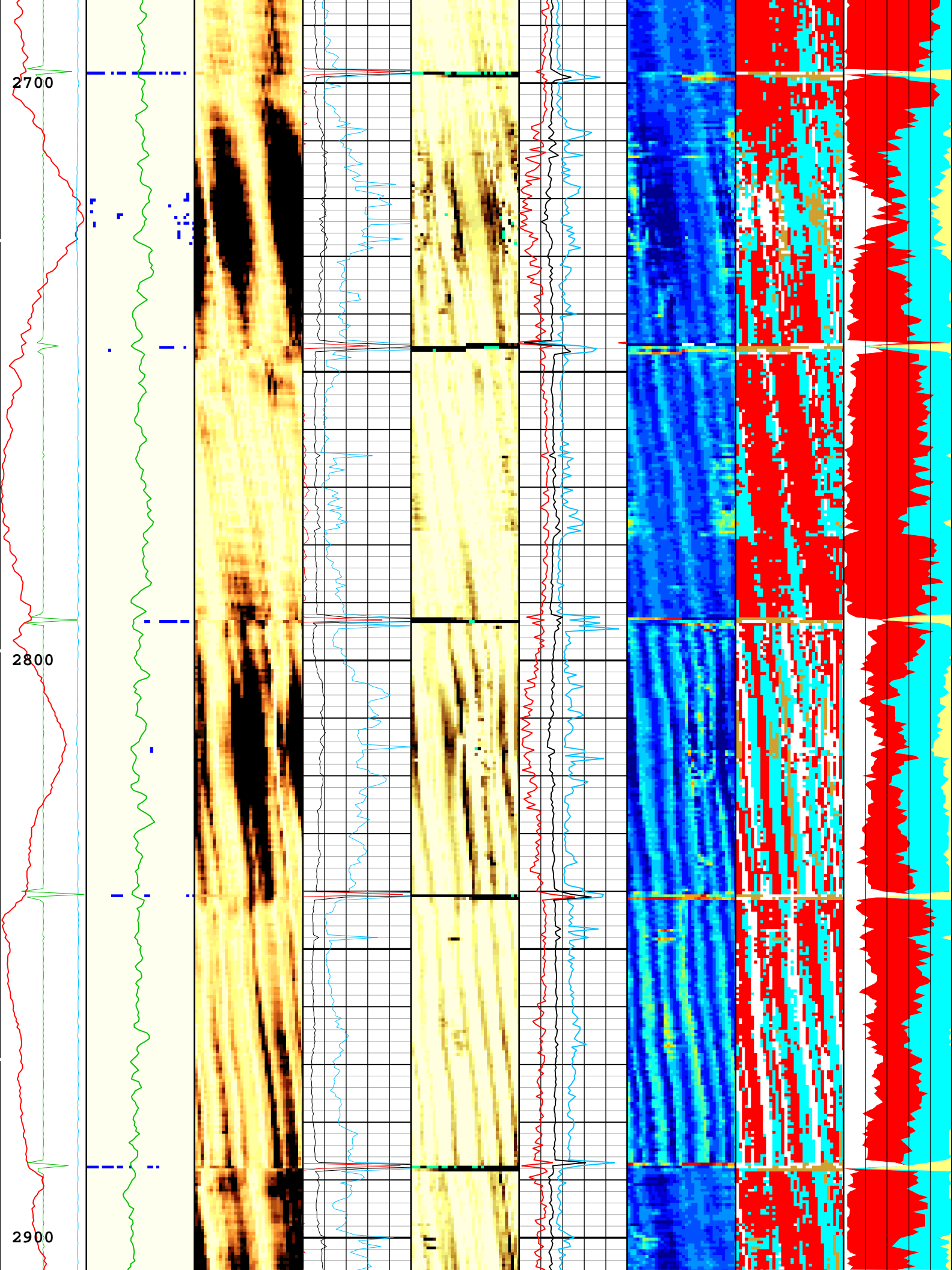


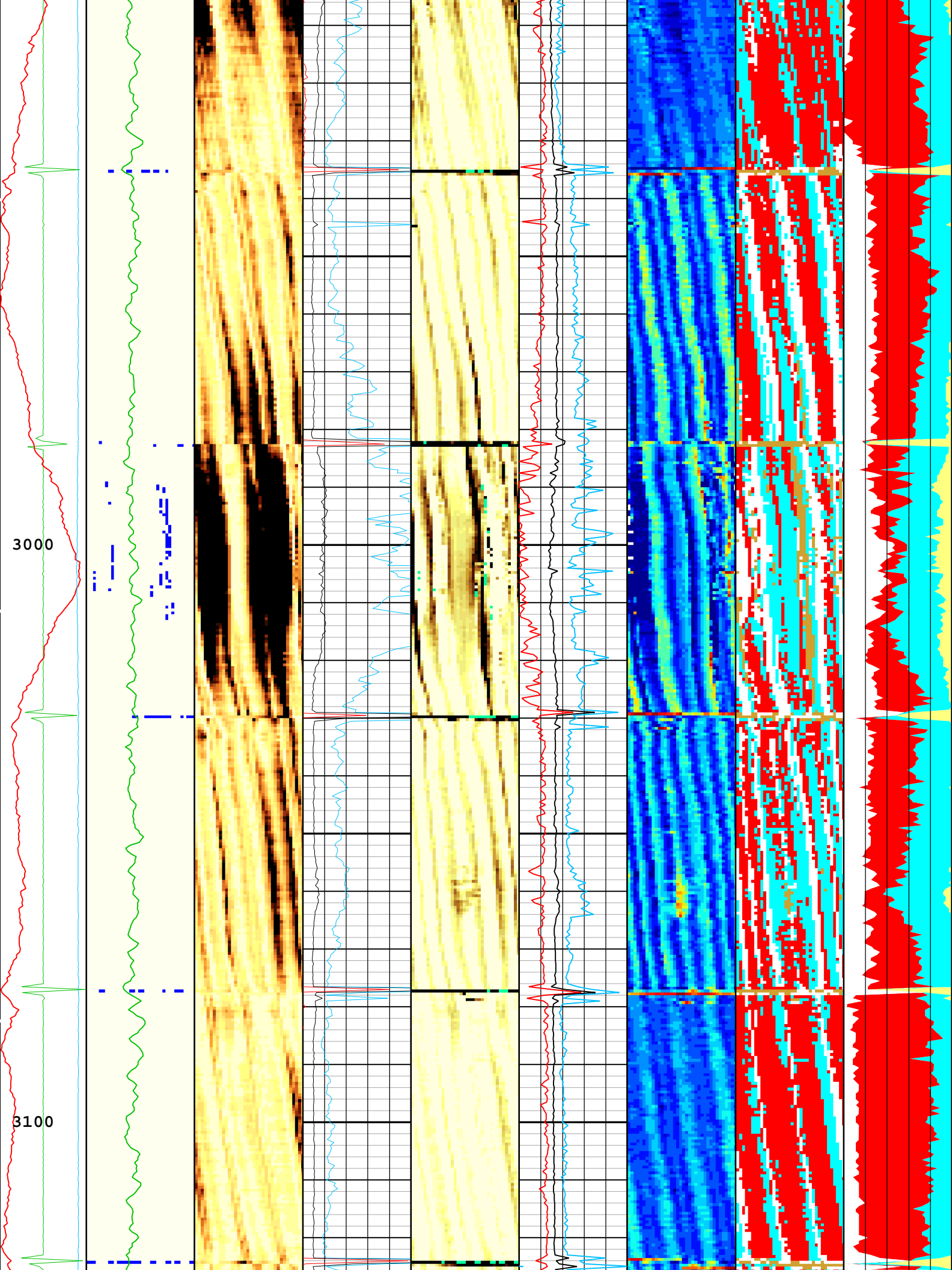


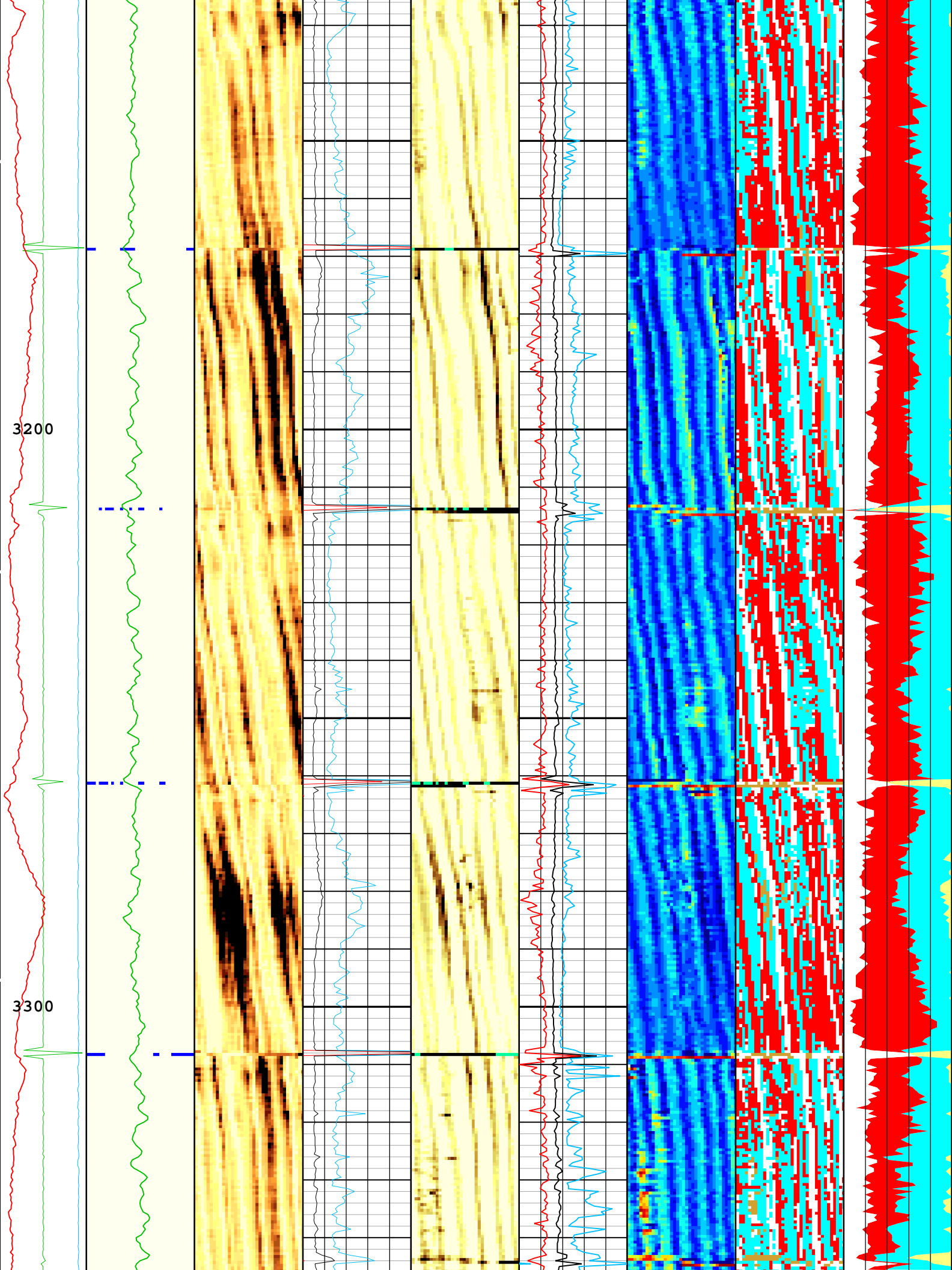


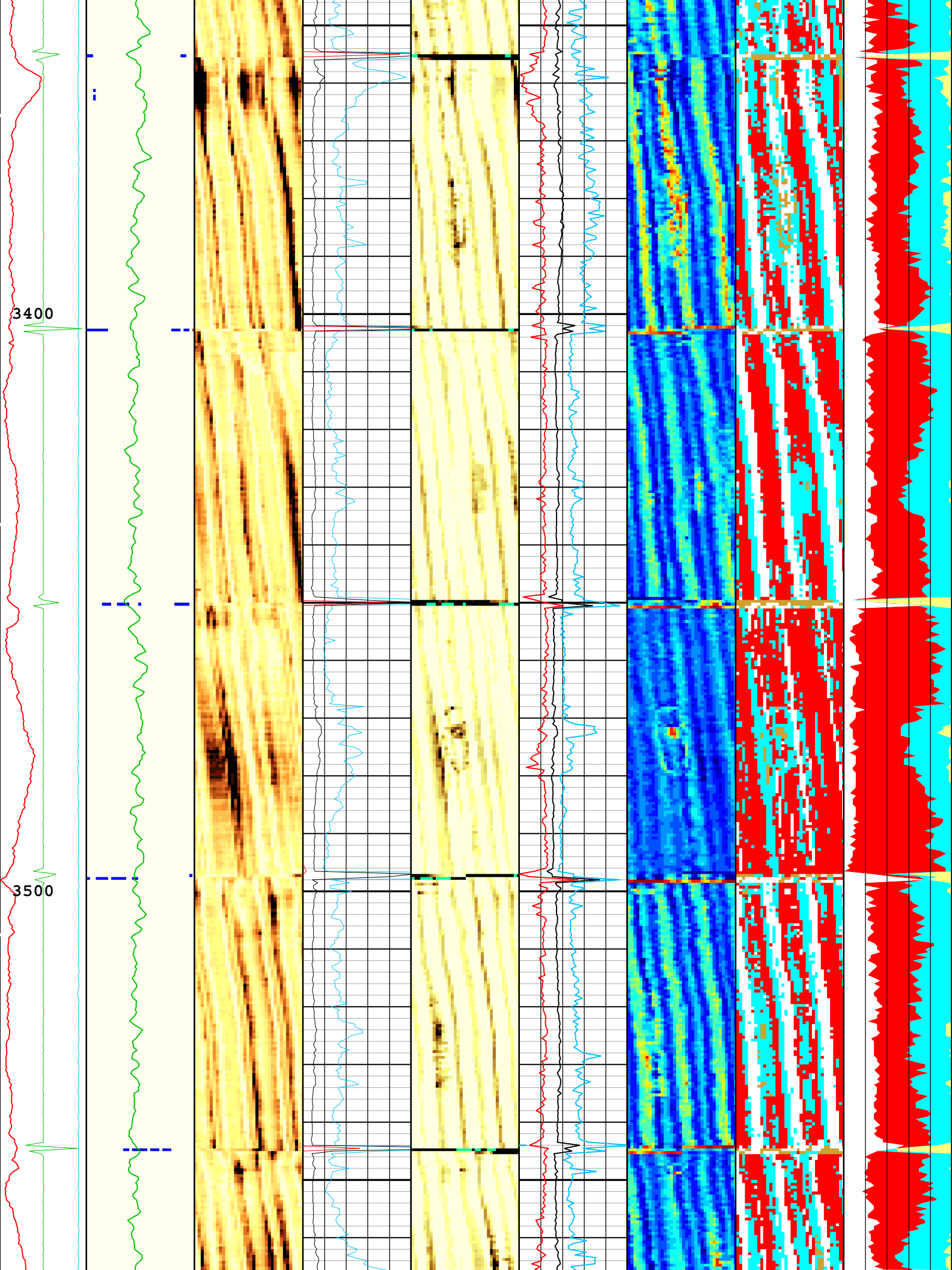




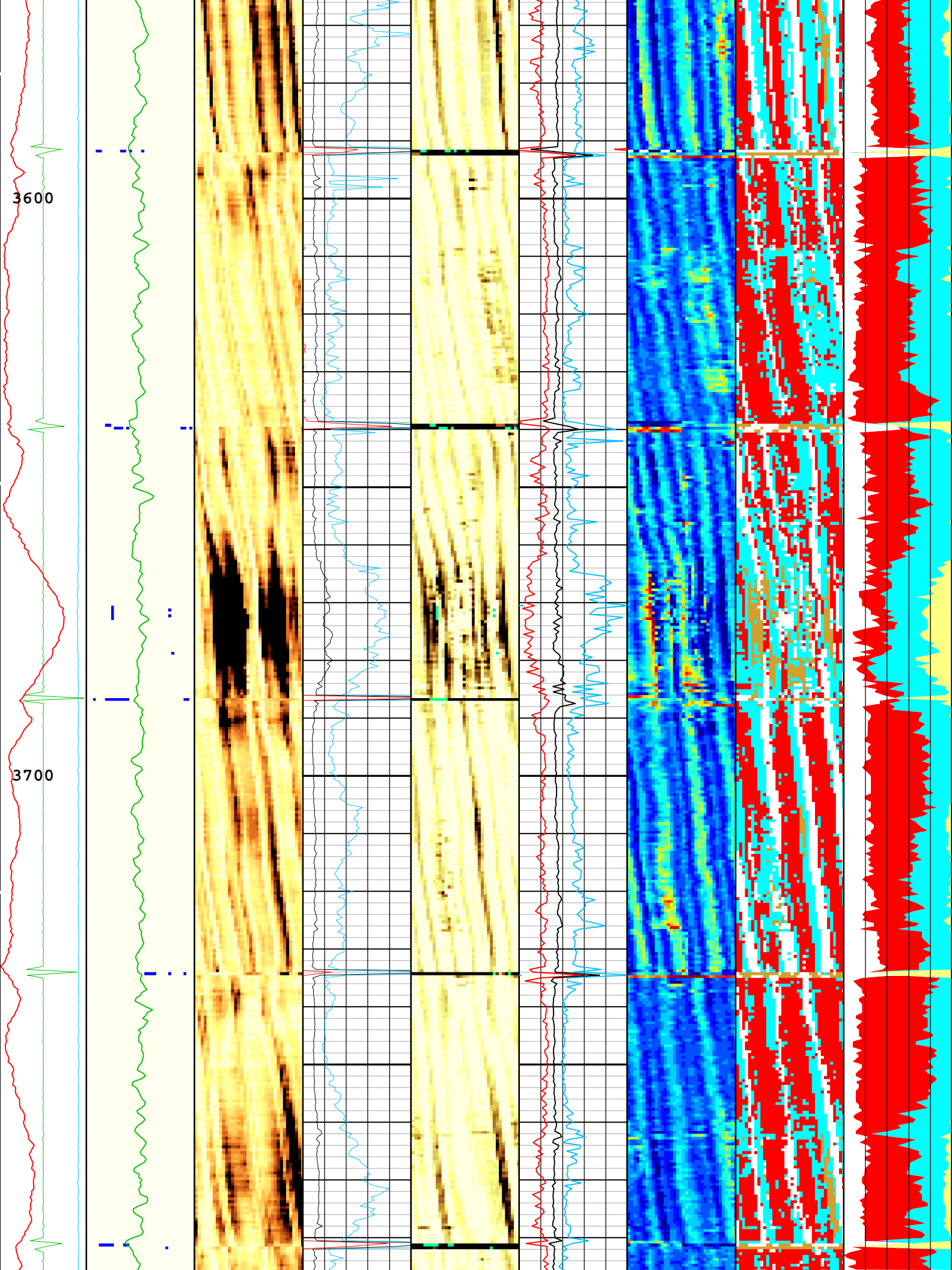




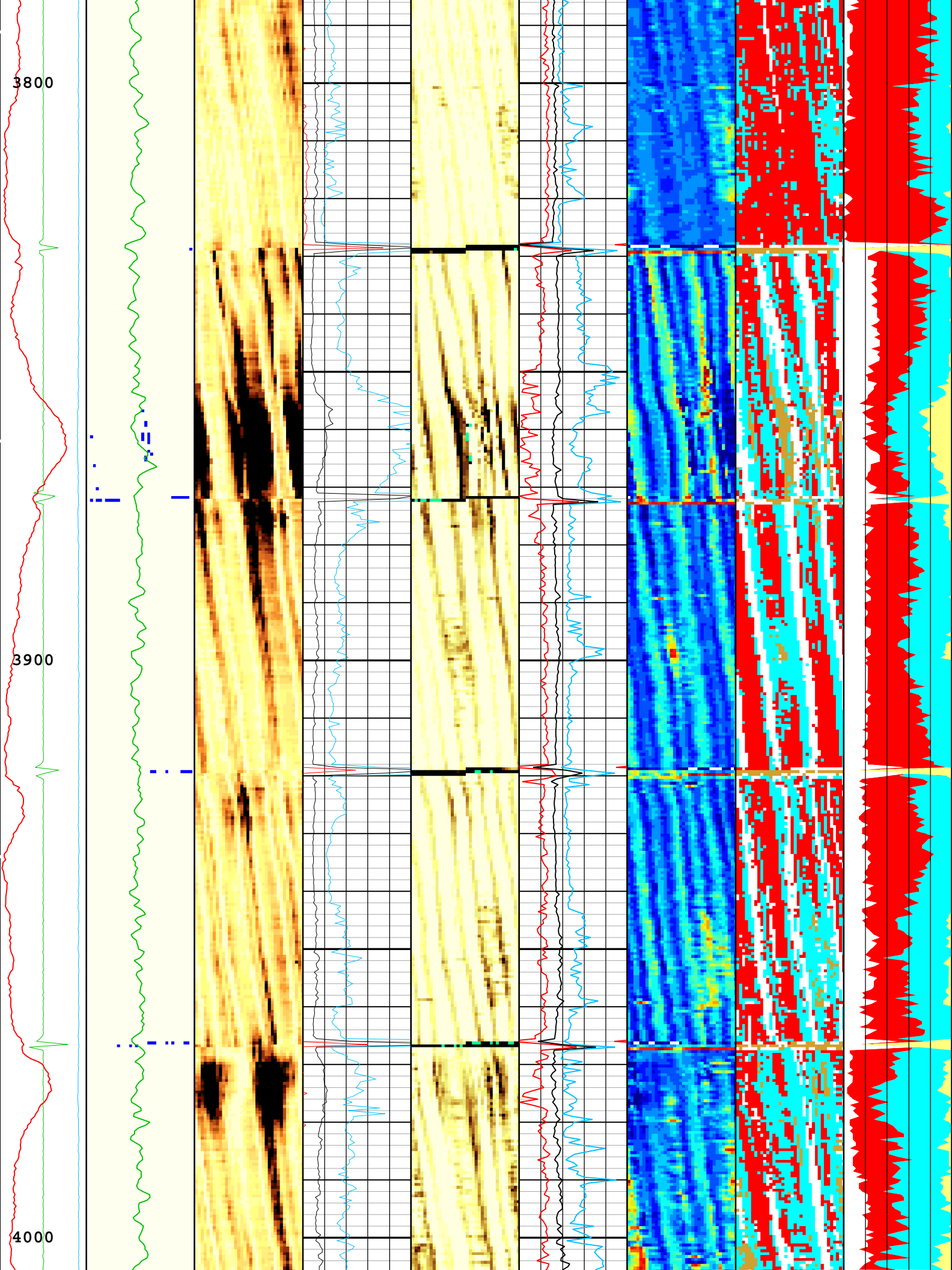


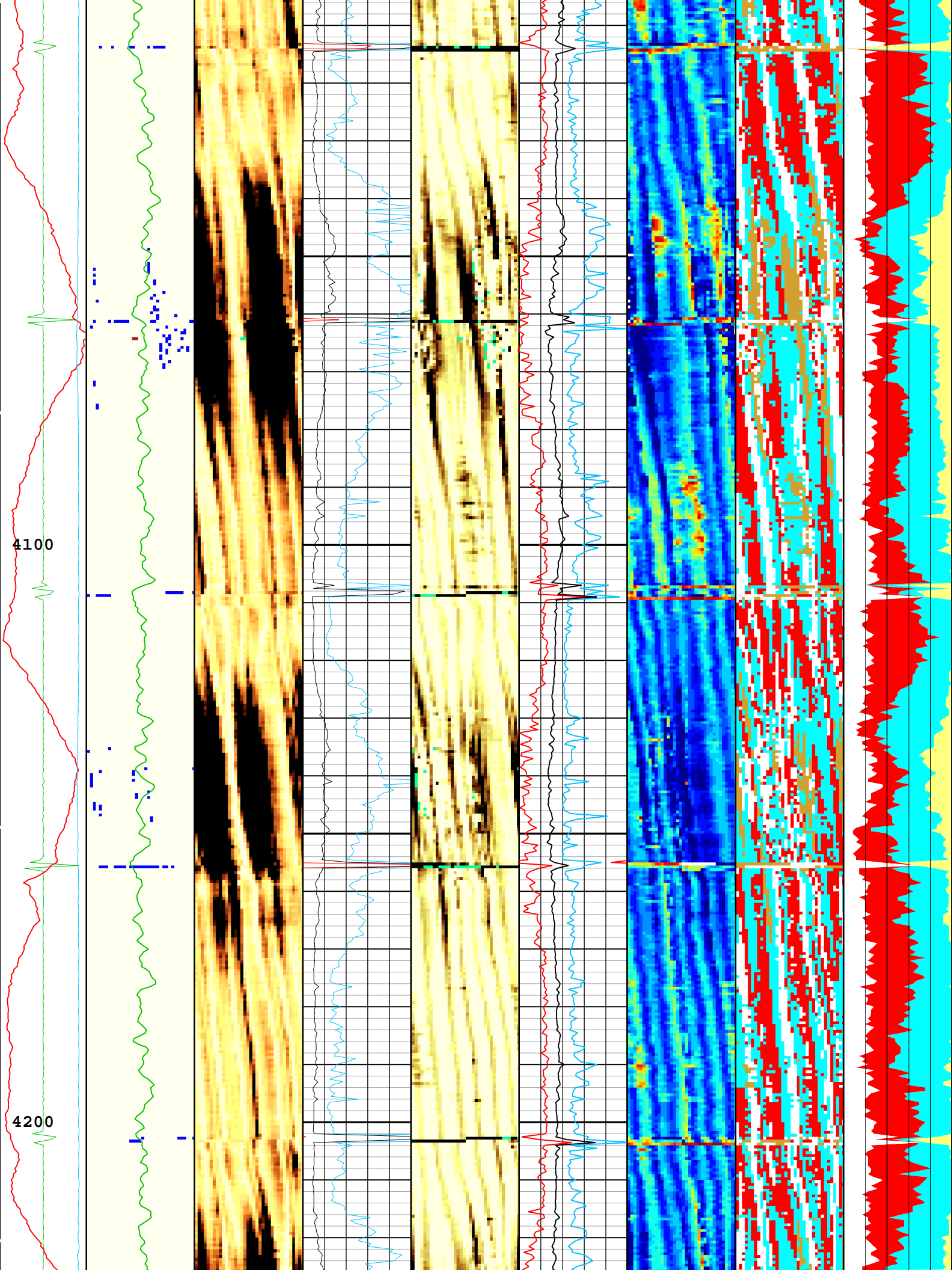


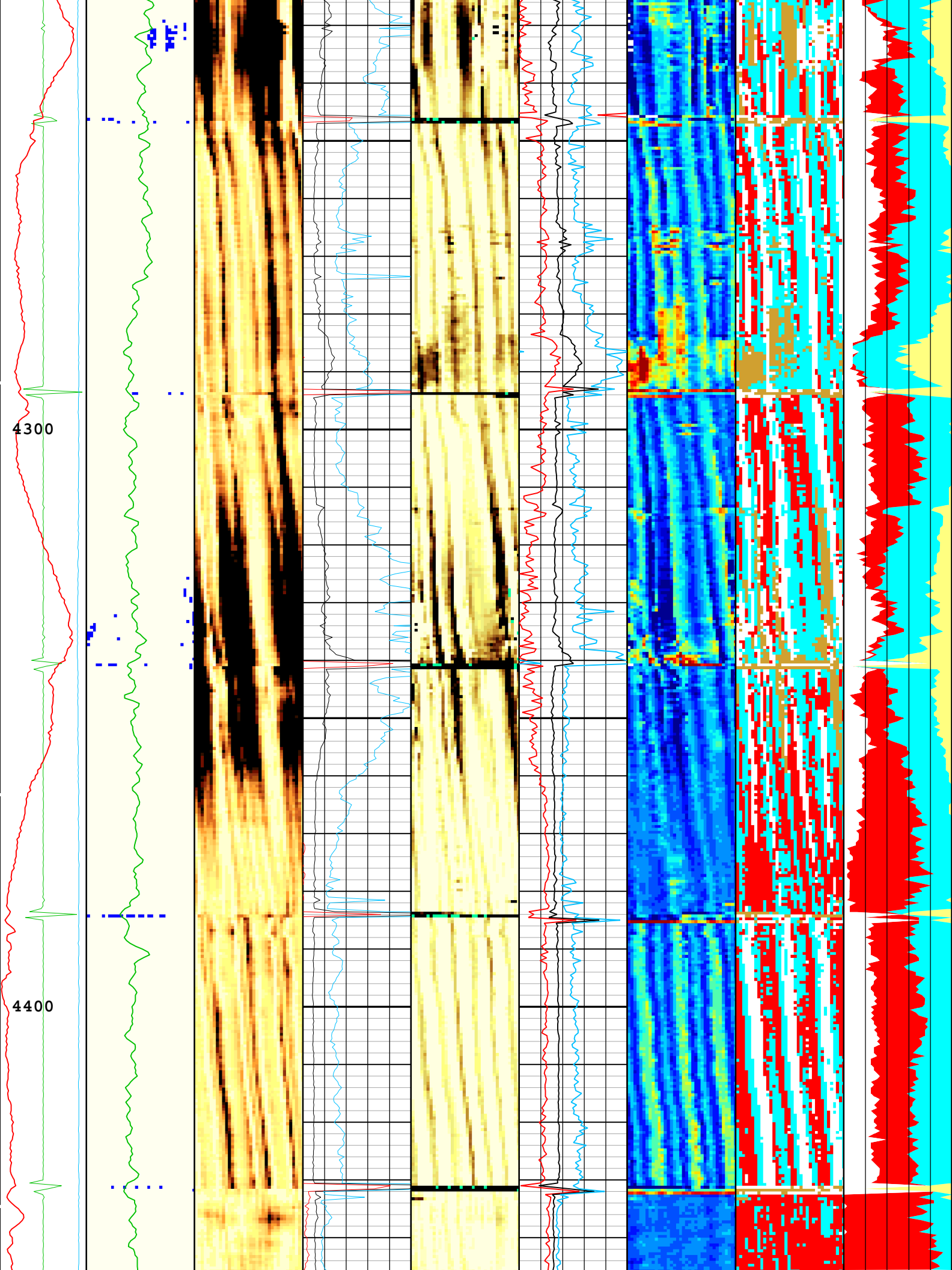


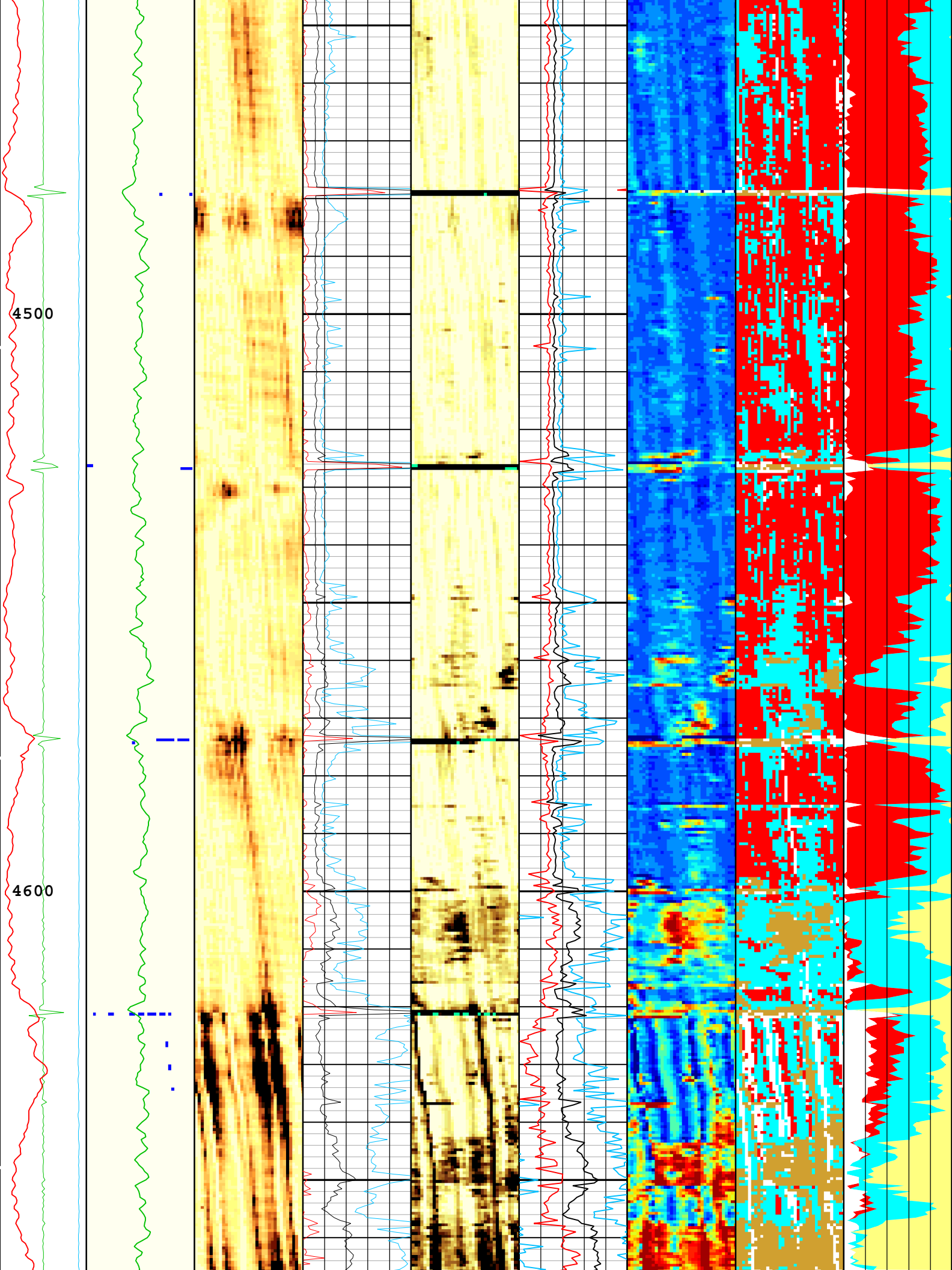


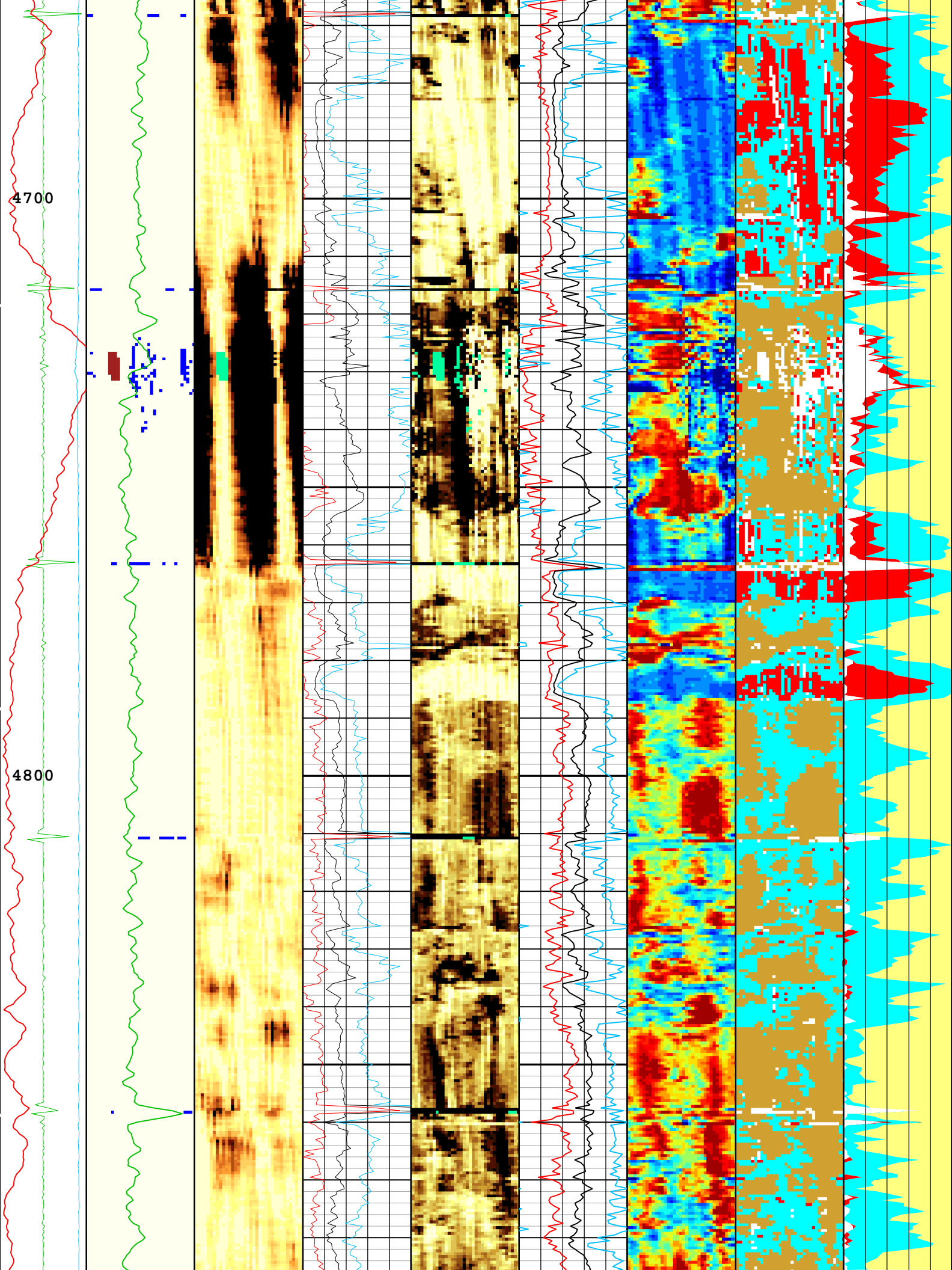




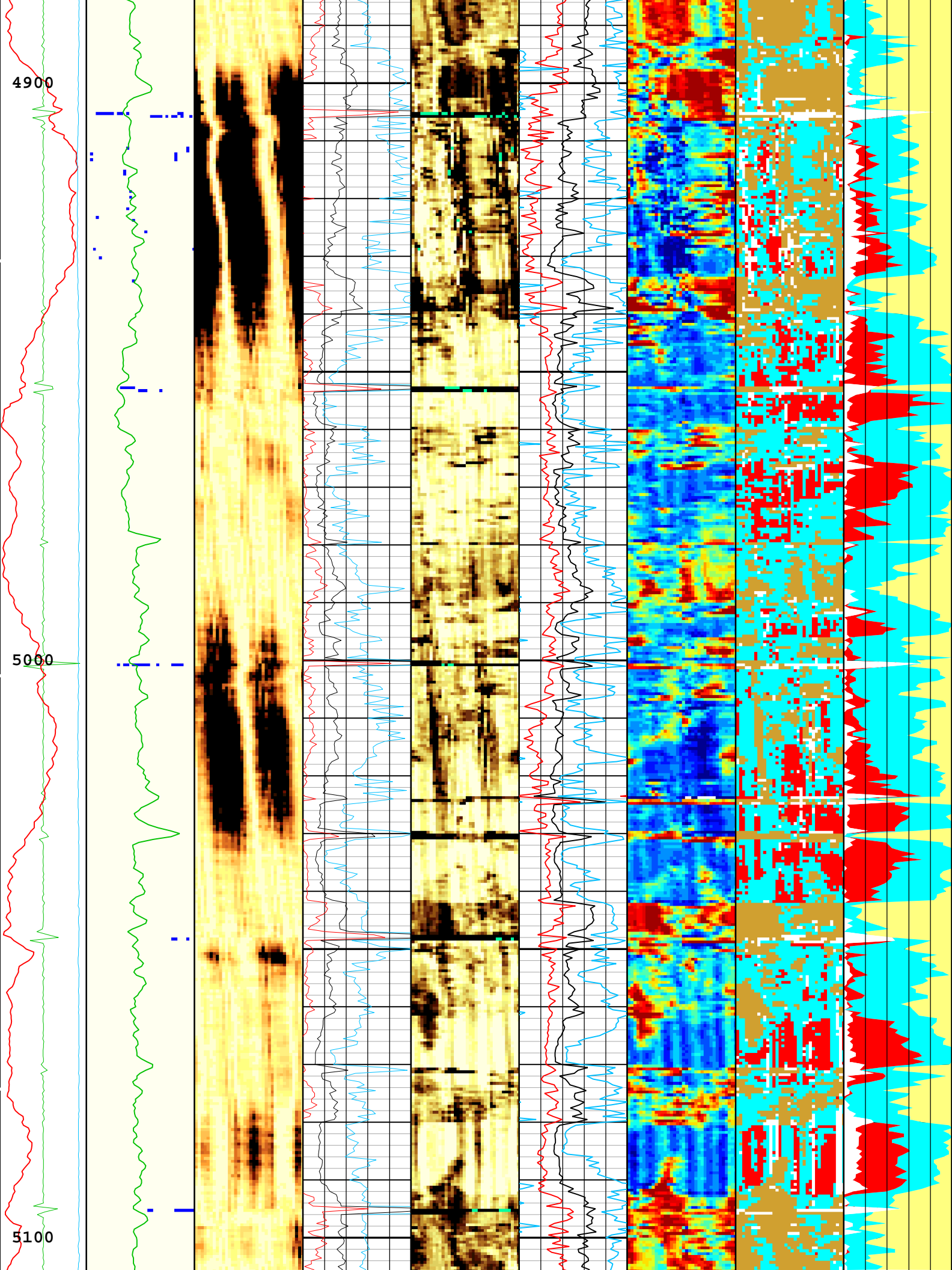


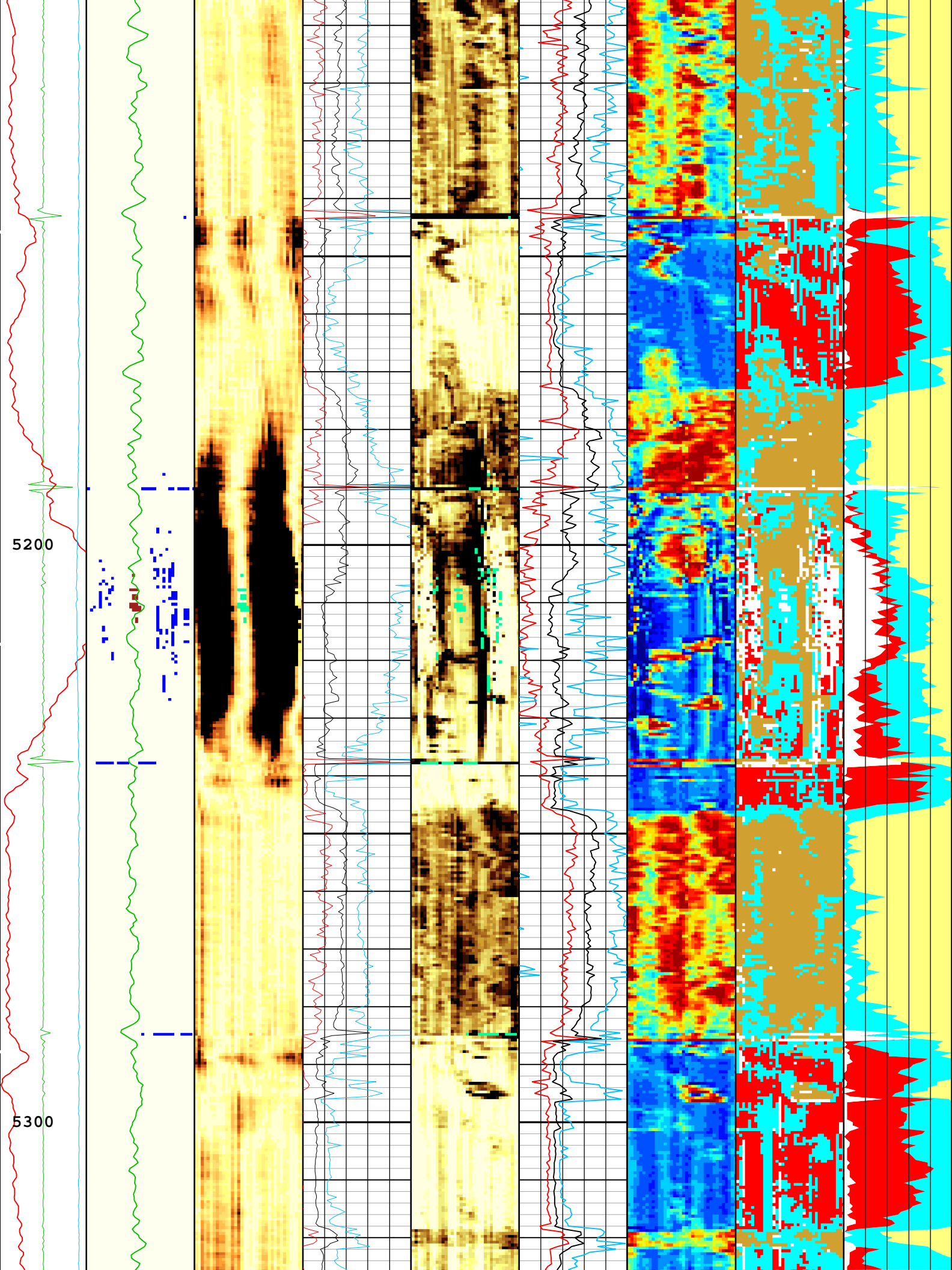




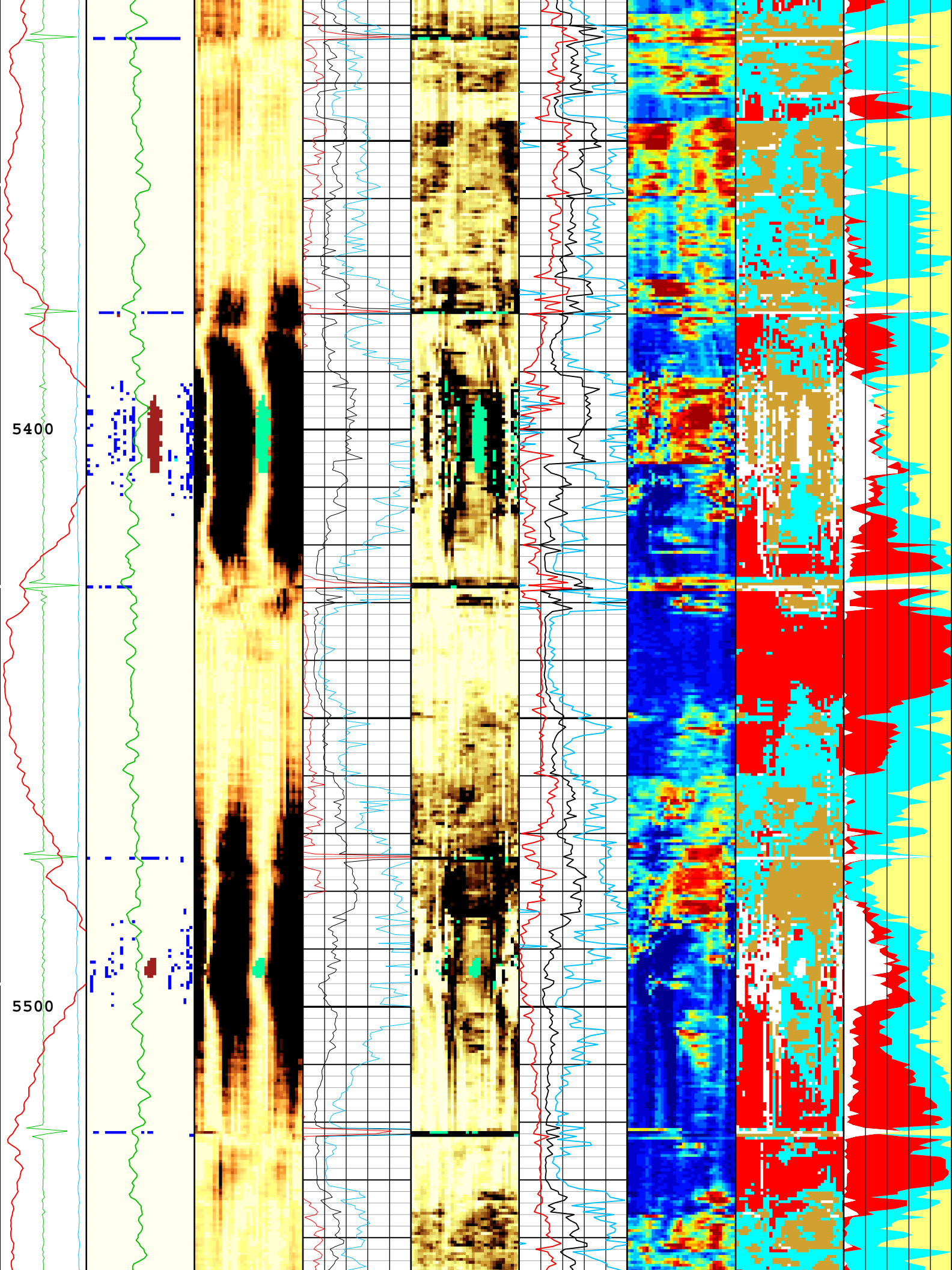


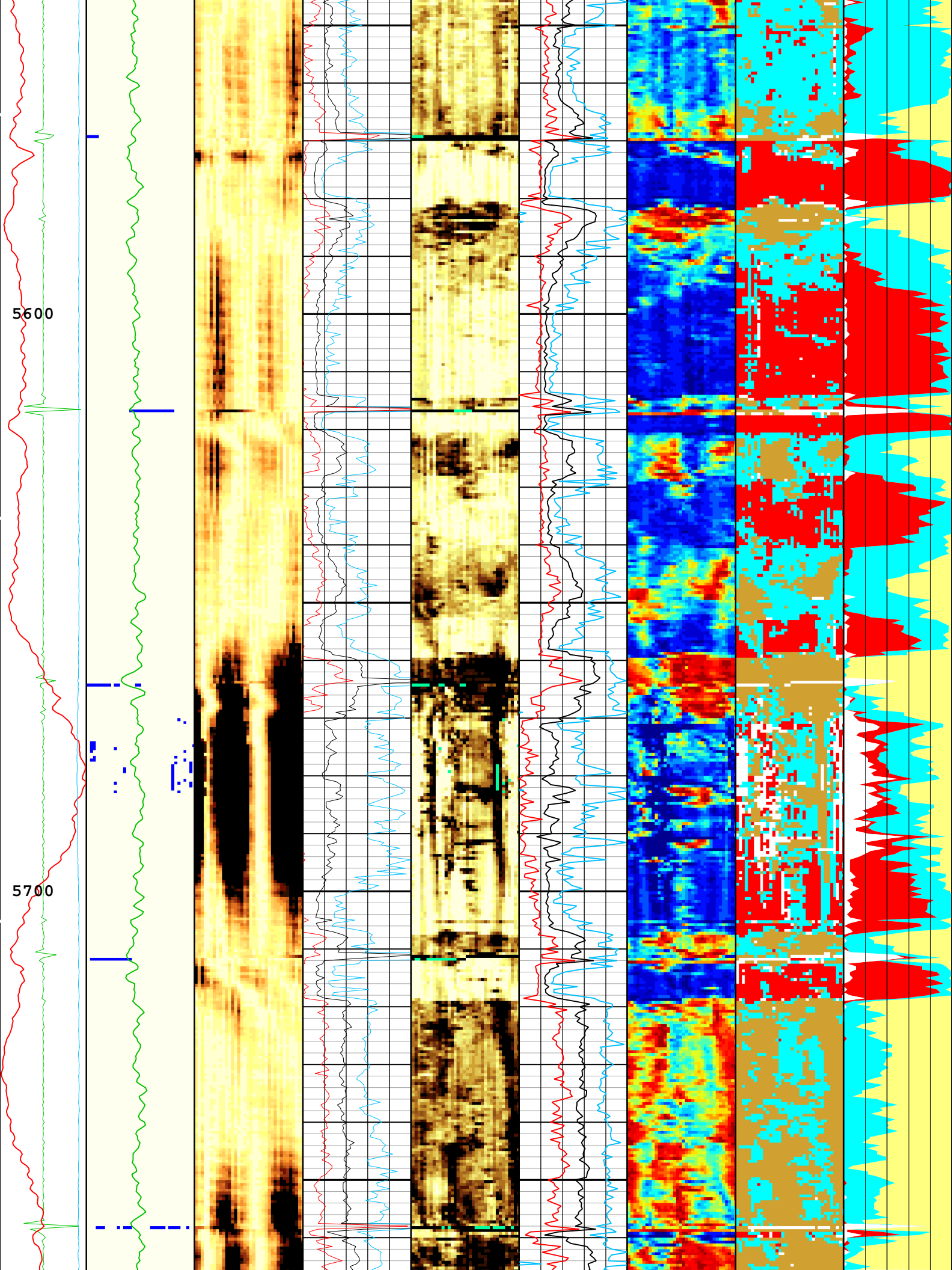


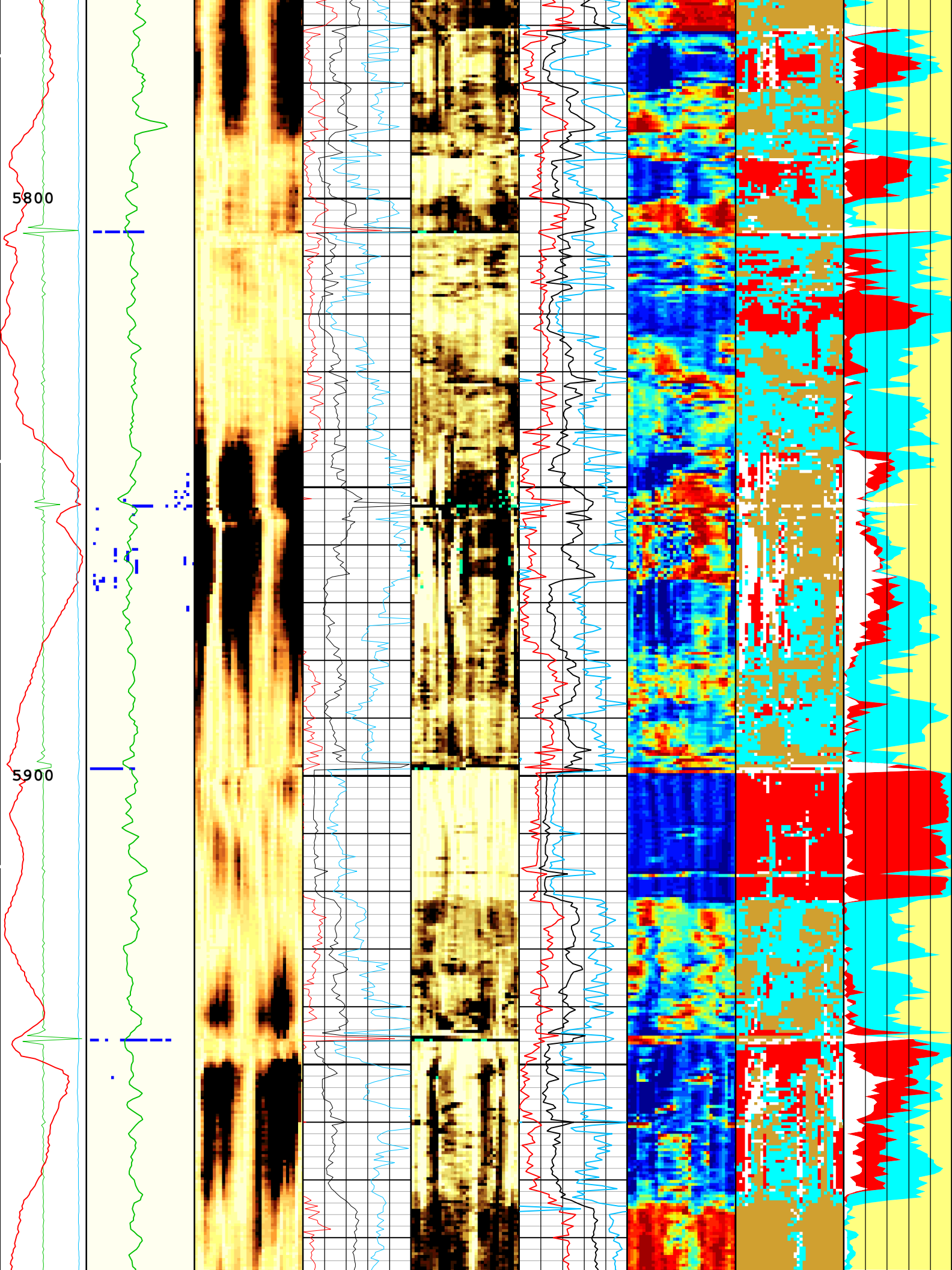


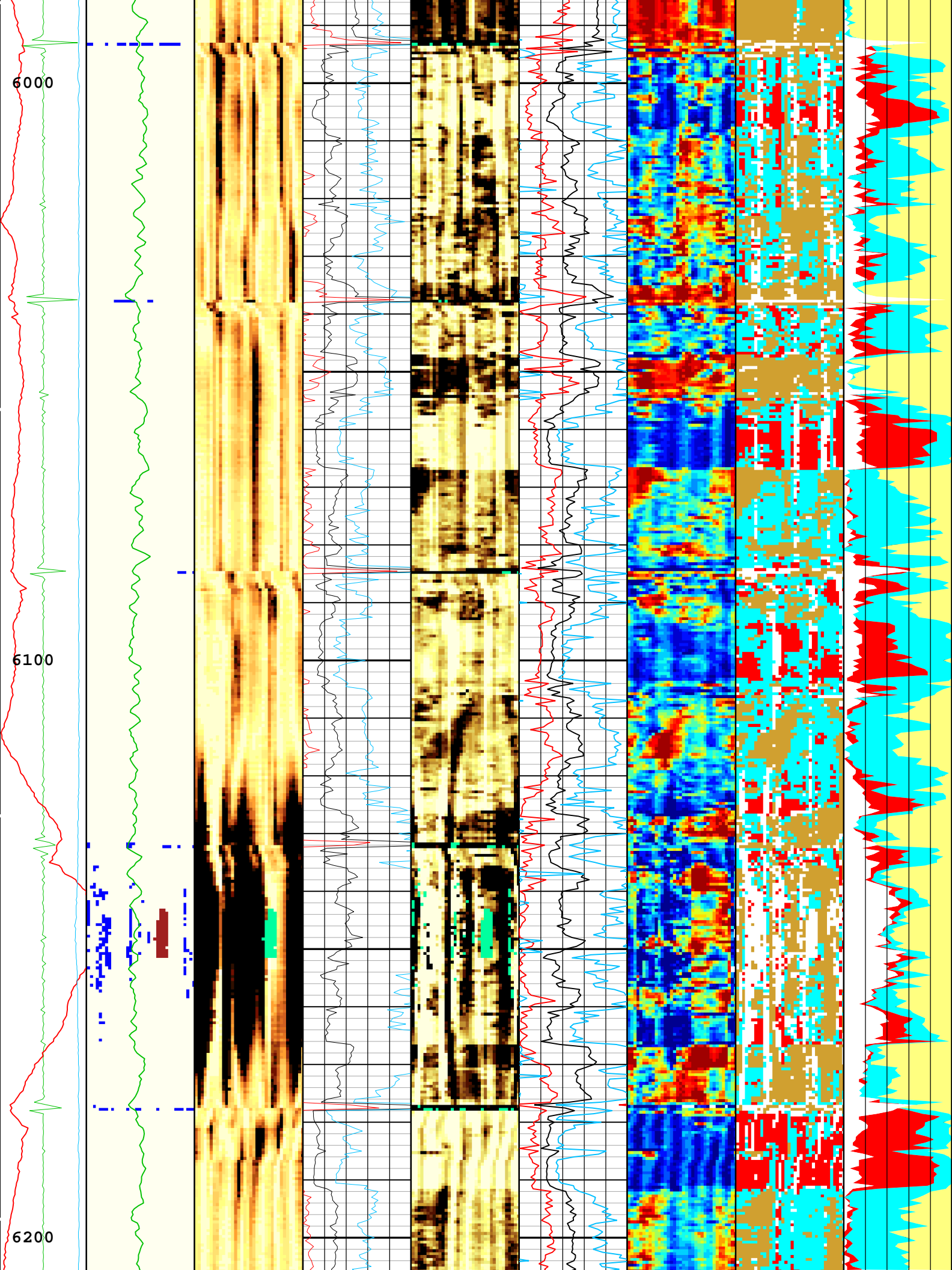




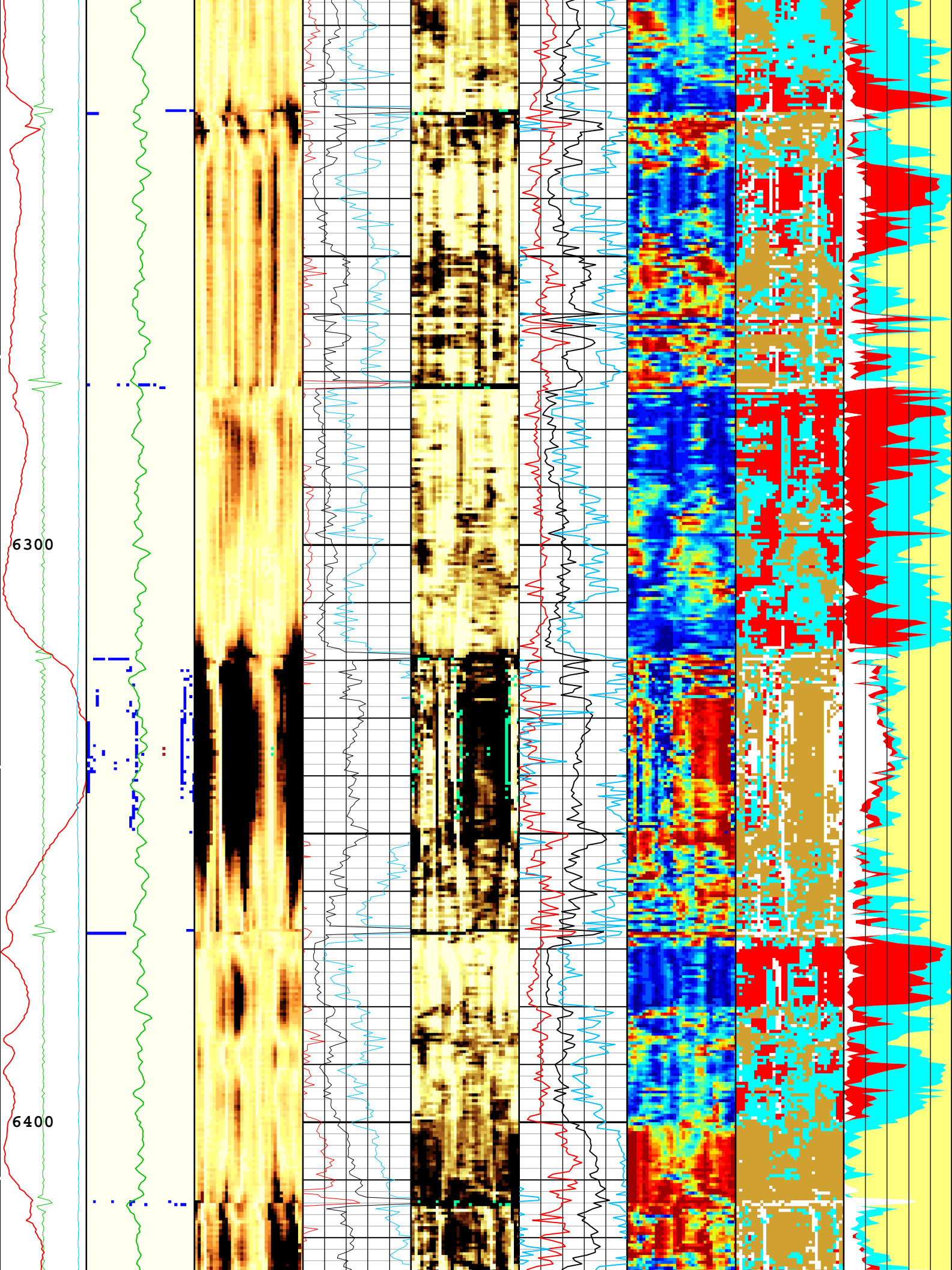


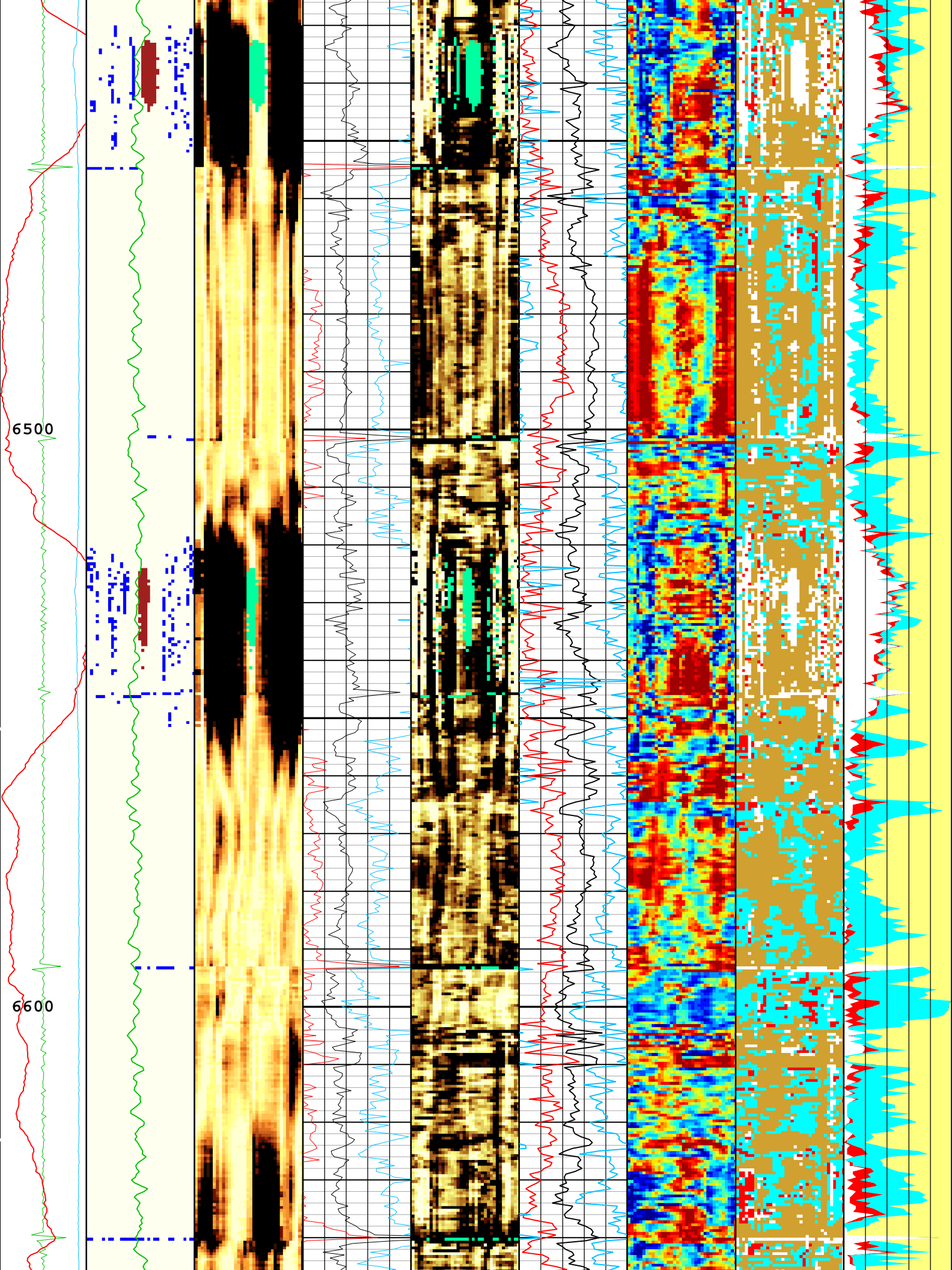


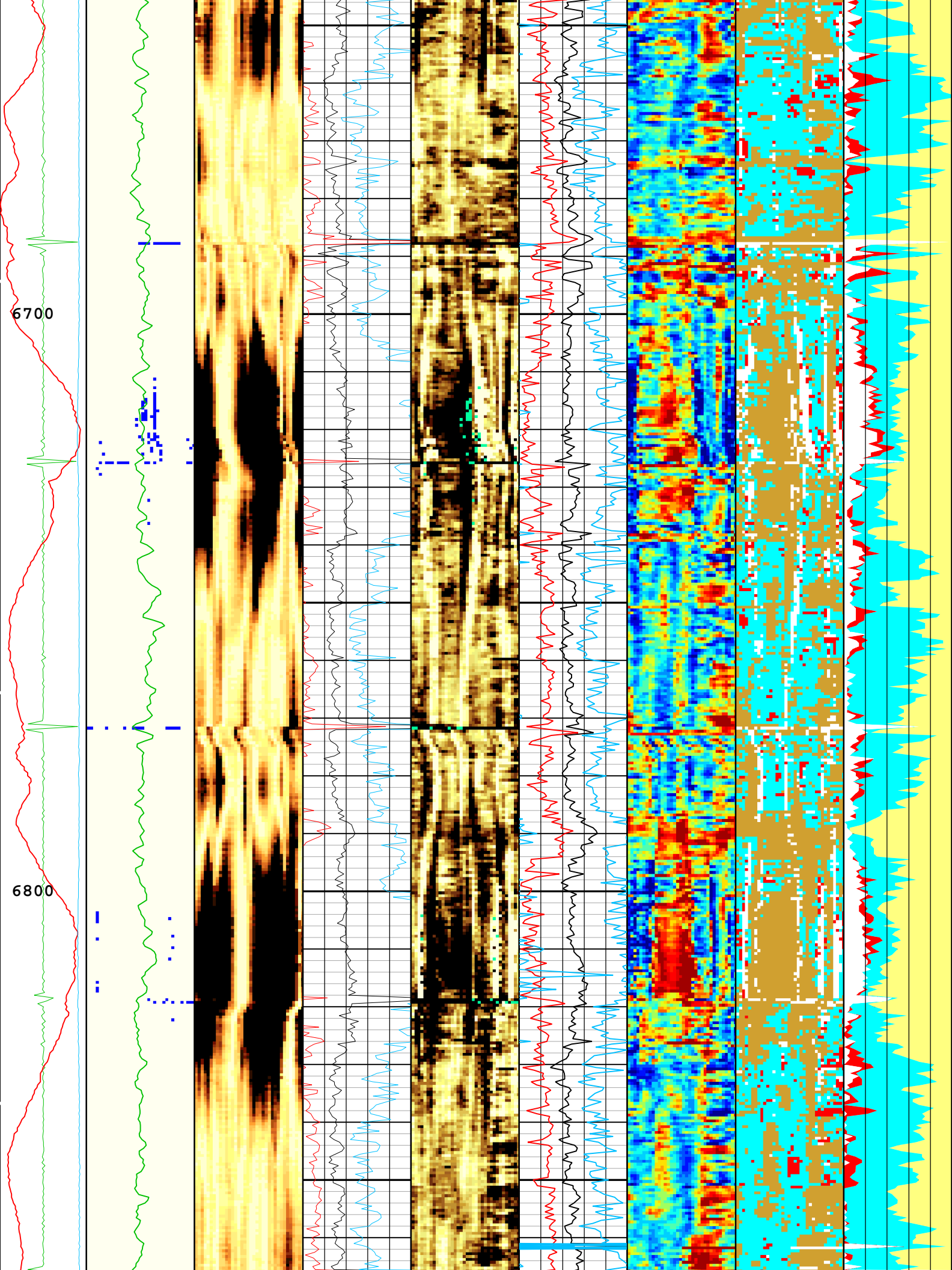




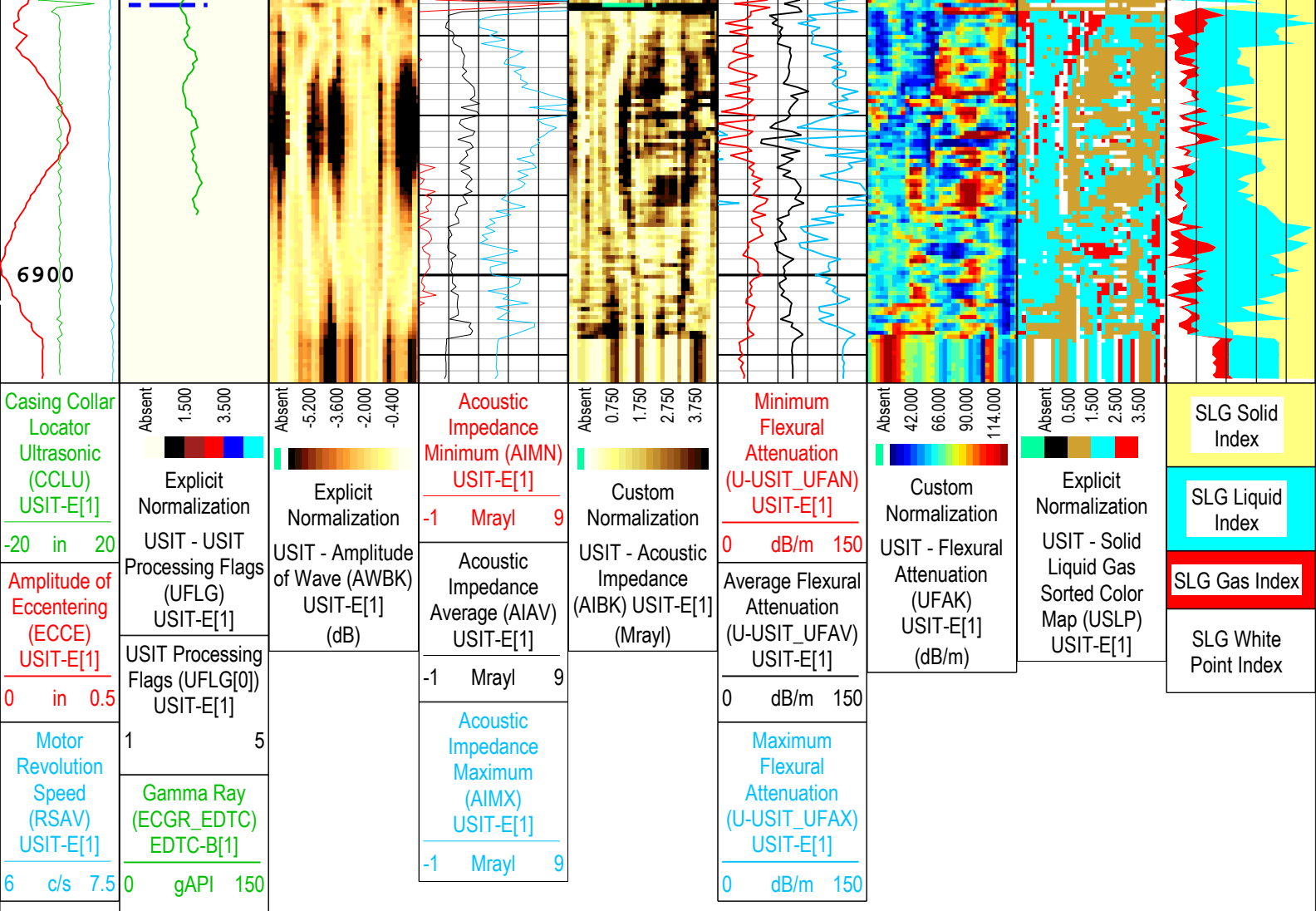












USIT Processing Flags (UFLG[0] USIT-E[1]

- 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 Format: Log ( IBC SLG ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 23-Sep-2018 15:09:54

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	14670	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	Light 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	8.4	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	-31.11	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	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.2	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.11	
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	1.64	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-33.39	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

ONE

Depth Zoned Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
BS	13.5	58	2165
BS	8.5	2165	6913.5

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	137	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	Time Zoned	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

## ONETime Zoned Parameters

## Pass Log[7]:Up

Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
EMXV	70	22-Sep-2018 16:04:21	22-Sep-2018 16:33:23	6914.34	4902.45
EMXV	80	22-Sep-2018 16:33:23	22-Sep-2018 16:49:54	4902.45	3726.25
EMXV	70	22-Sep-2018 16:49:54	22-Sep-2018 17:15:33	3726.25	1925
U-USIT_UFWE	177	22-Sep-2018 16:04:21	22-Sep-2018 16:50:38	6914.34	3674.33
U-USIT_UFWE	170.59	22-Sep-2018 16:50:38	22-Sep-2018 16:50:57	3674.33	3651.81
U-USIT_UFWE	174.06	22-Sep-2018 16:50:57	22-Sep-2018 16:57:25	3651.81	3194.31
U-USIT_UFWE	177.52	22-Sep-2018 16:57:25	22-Sep-2018 17:15:33	3194.31	1925
U-USIT_UNWE	146	22-Sep-2018 16:04:21	22-Sep-2018 16:50:54	6914.34	3656.37
U-USIT_UNWE	147.48	22-Sep-2018 16:50:54	22-Sep-2018 16:58:30	3656.37	3117.26
U-USIT_UNWE	146.33	22-Sep-2018 16:58:30	22-Sep-2018 17:15:33	3117.26	1925
WINB	31.88	22-Sep-2018 16:04:35	22-Sep-2018 17:15:33	6914.34	1925
WINE	71.88	22-Sep-2018 16:04:21	22-Sep-2018 16:05:37	6914.34	6862.88
WINE	73.64	22-Sep-2018 16:05:37	22-Sep-2018 16:05:43	6862.88	6856.38
WINE	74.03	22-Sep-2018 16:05:43	22-Sep-2018 17:15:33	6856.38	1925

## Pass Log[8]:Up

EMXV	70	22-Sep-2018 17:25:07	22-Sep-2018 17:54:42	1925.01	58.34
U-USIT_UFWE	182.14	22-Sep-2018 17:25:07	22-Sep-2018 17:54:42	1925.01	58.34
U-USIT_UNWE	146	22-Sep-2018 17:25:07	22-Sep-2018 17:54:42	1925.01	58.34
WINB	31.88	22-Sep-2018 17:24:38	22-Sep-2018 17:40:32	1925.01	832.37
WINB	33.61	22-Sep-2018 17:40:32	22-Sep-2018 17:54:42	832.37	58.34
WINE	71.88	22-Sep-2018 17:24:38	22-Sep-2018 17:25:21	1925.01	1910.36
WINE	73.42	22-Sep-2018 17:25:21	22-Sep-2018 17:40:28	1910.36	836.47
WINE	75.6	22-Sep-2018 17:40:28	22-Sep-2018 17:54:42	836.47	58.34

All depth are at tool zero.

## IBC SLG Composite

## Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[7]:Up	Up	1905.66 ft	6914.42 ft	22-Sep-2018 4:04:21 PM	22-Sep-2018 5:15:33 PM	ON	8.03 ft	Yes
ONE	Log[8]:Up	Up	58.28 ft	1931.60 ft	22-Sep-2018 5:24:38 PM	22-Sep-2018 5:54:42 PM	ON	8.29 ft	Yes

All depths are referenced to toolstring zero

## Log






Company:Crestone Peak Resources Operating LLC

Well:Davis 1O-9H-G266

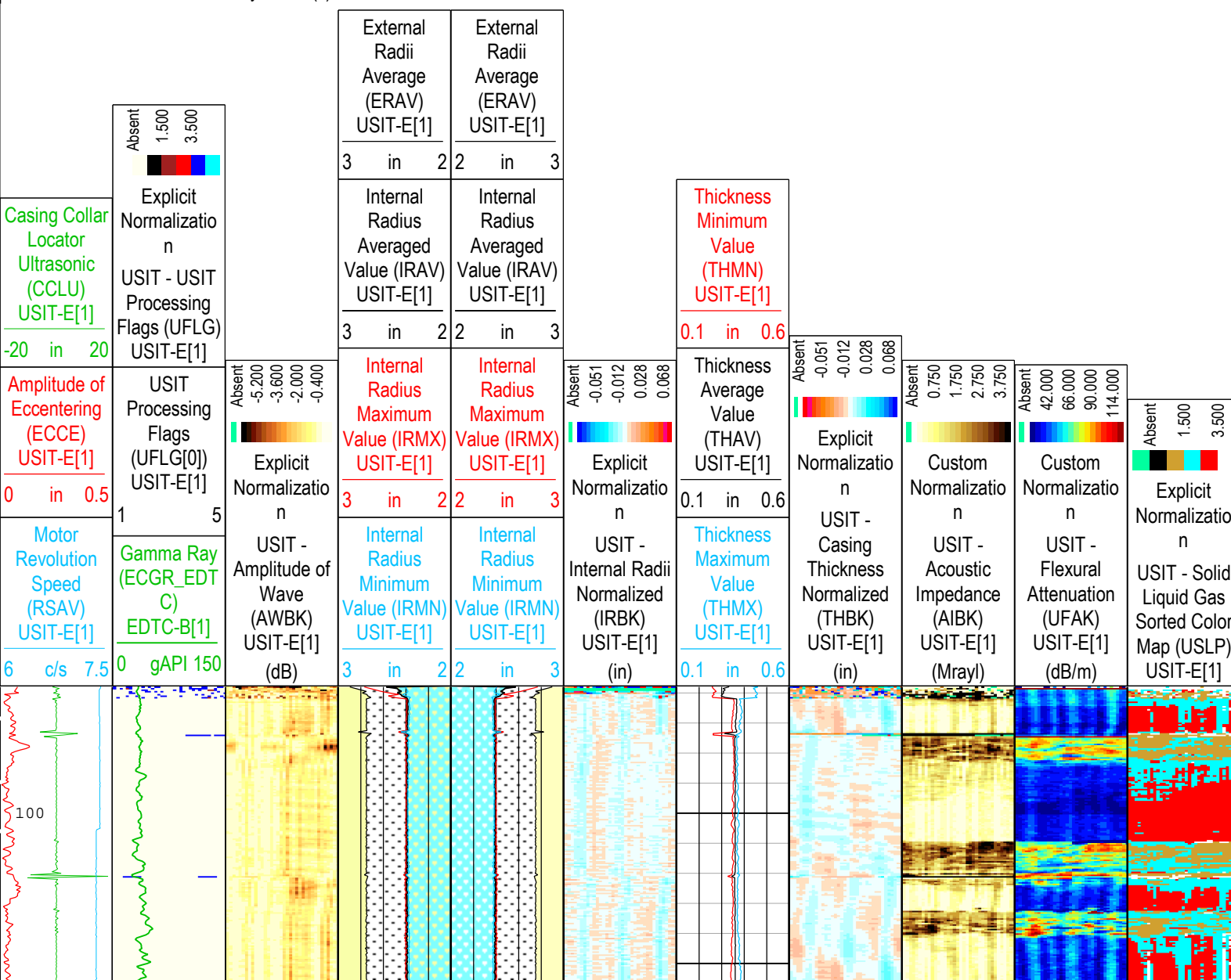
Composite 1:S005

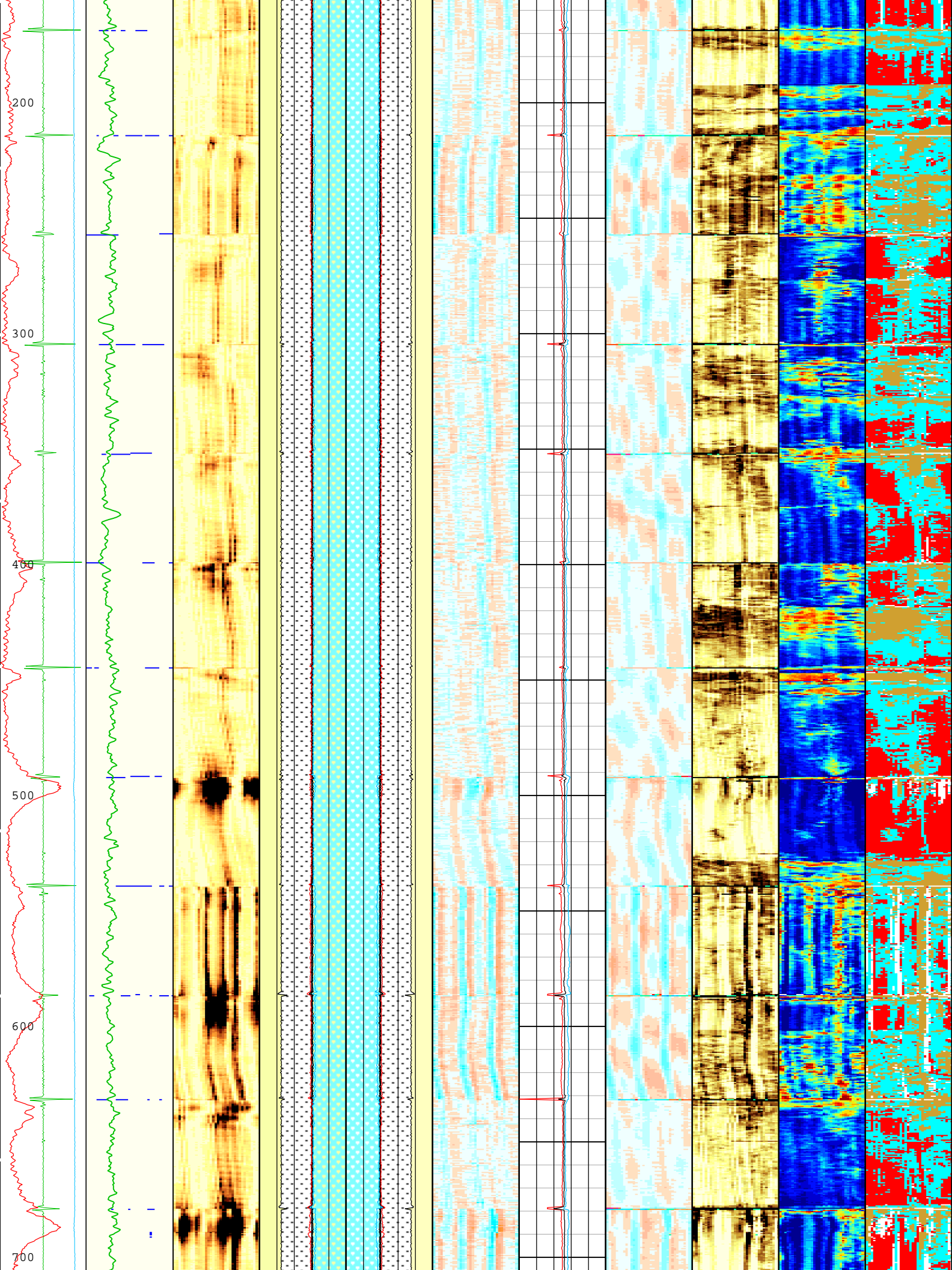
Description: USI IBC SLG Composite Format: Log ( IBC SLG Composite ) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth  
Creation Date: 23-Sep-2018 15:10:14

## USIT Processing Flags (UFLG[0]) USIT-E[1]

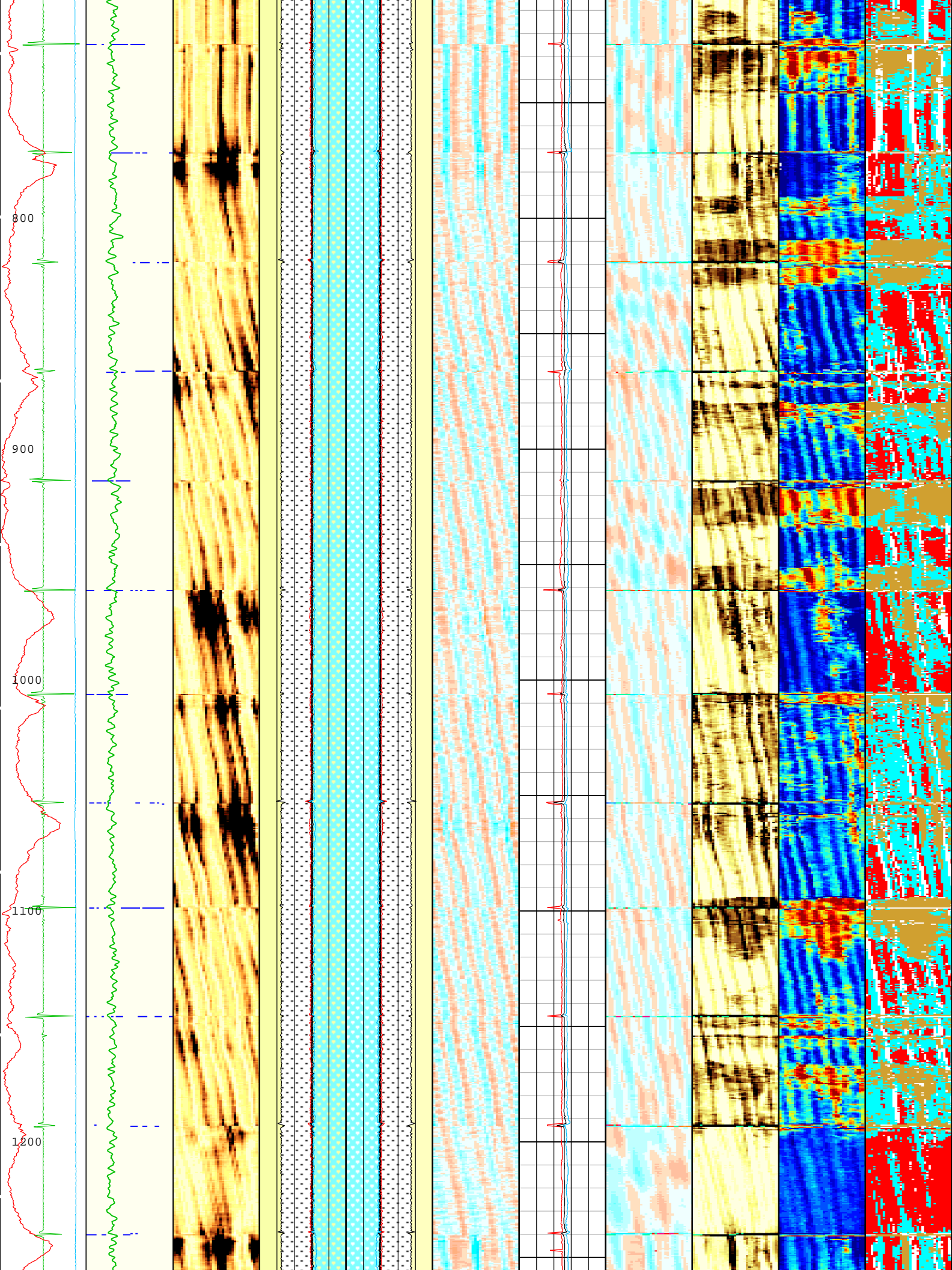
- 1 - UFLG 1 Value within [0.0 - 1.5] - :  UTIM Error  
2 - UFLG 2 Value within [1.5 - 2.5] - :  Pulse Origin Not Detected  
3 - UFLG 3 Value within [2.5 - 3.5] - :  WINLEN Error  
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :  Casing Thickness Error  
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5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

TIME\_1900 - Time Marked every 60.00 (s)

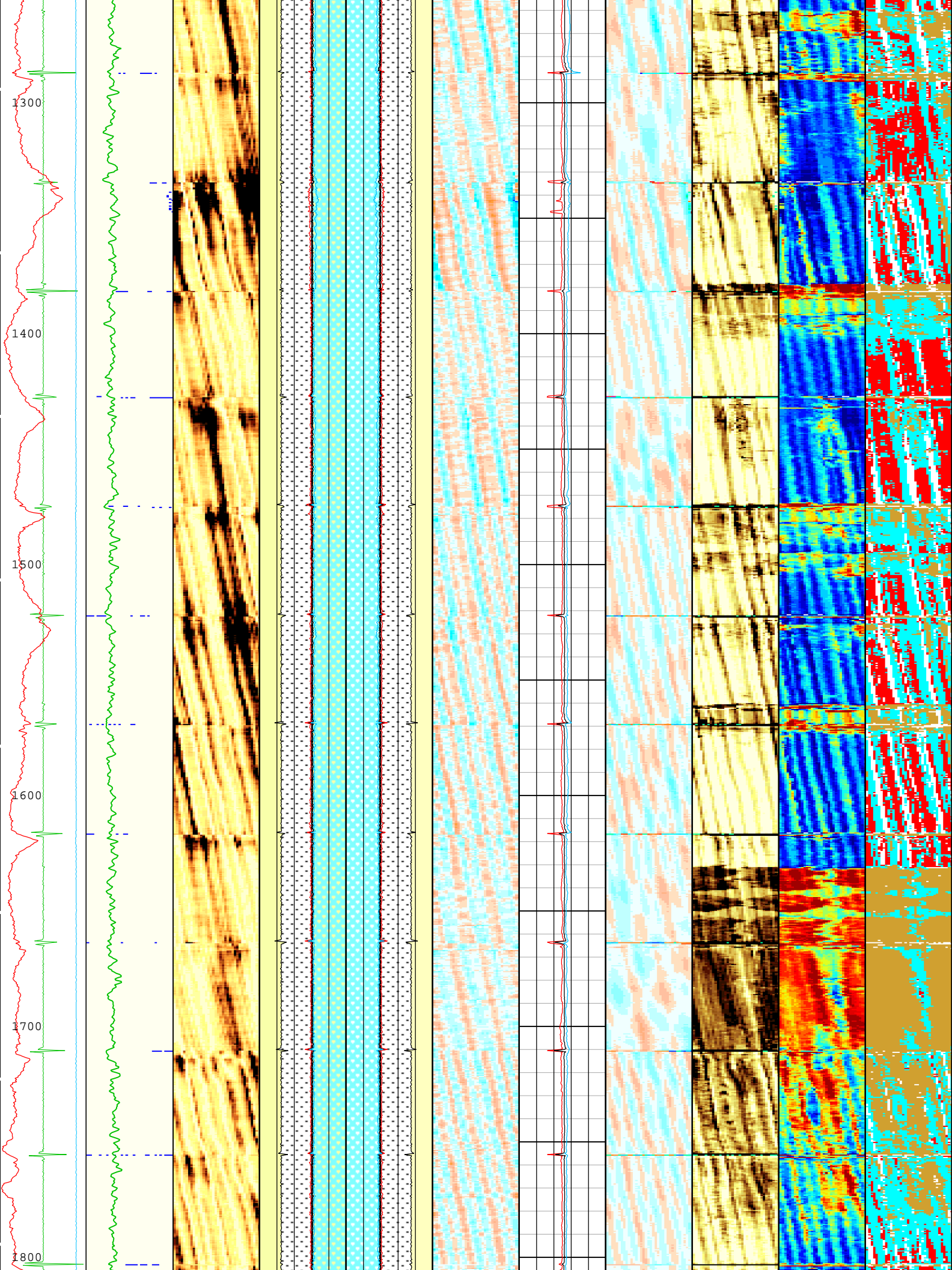


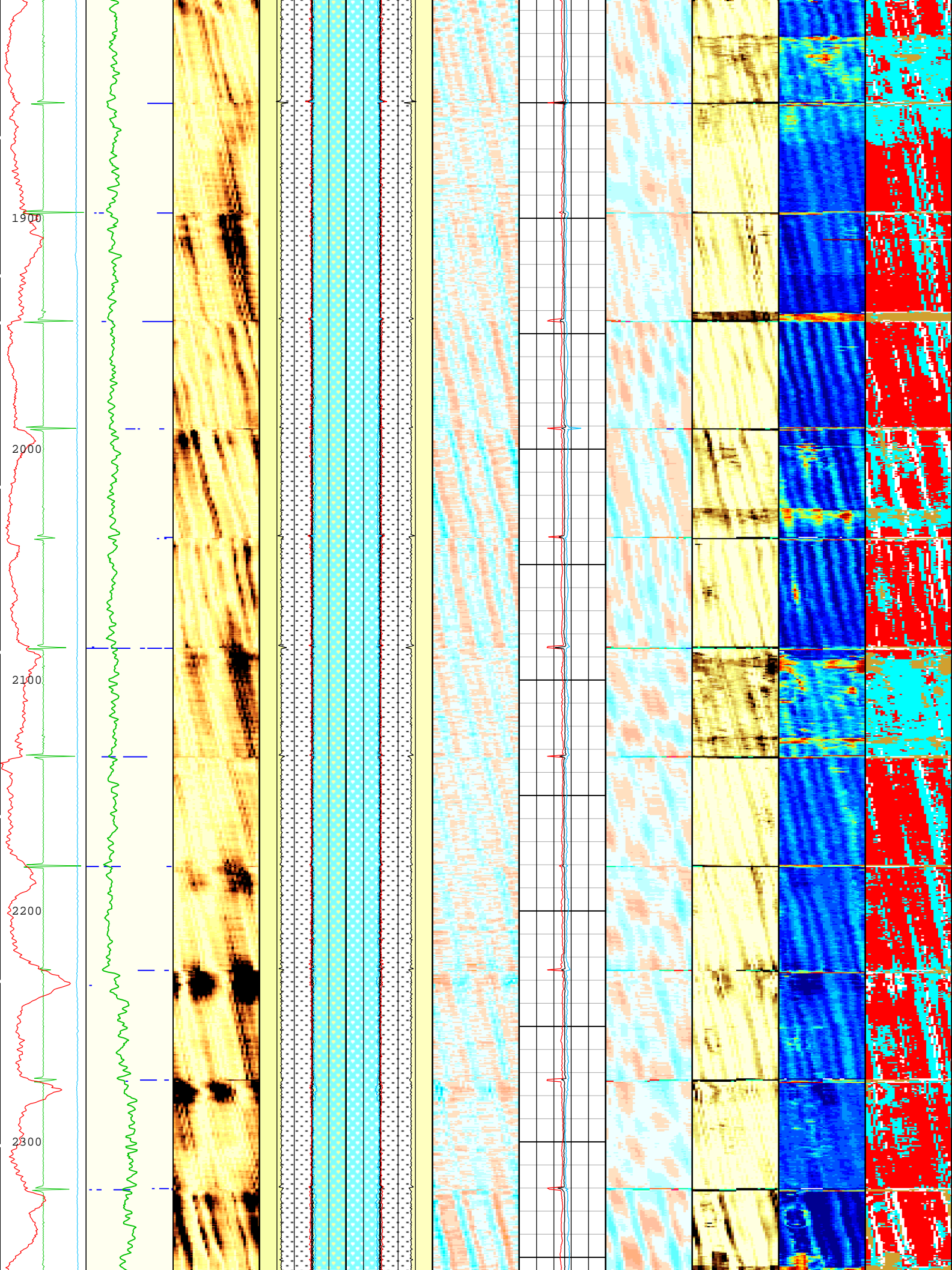




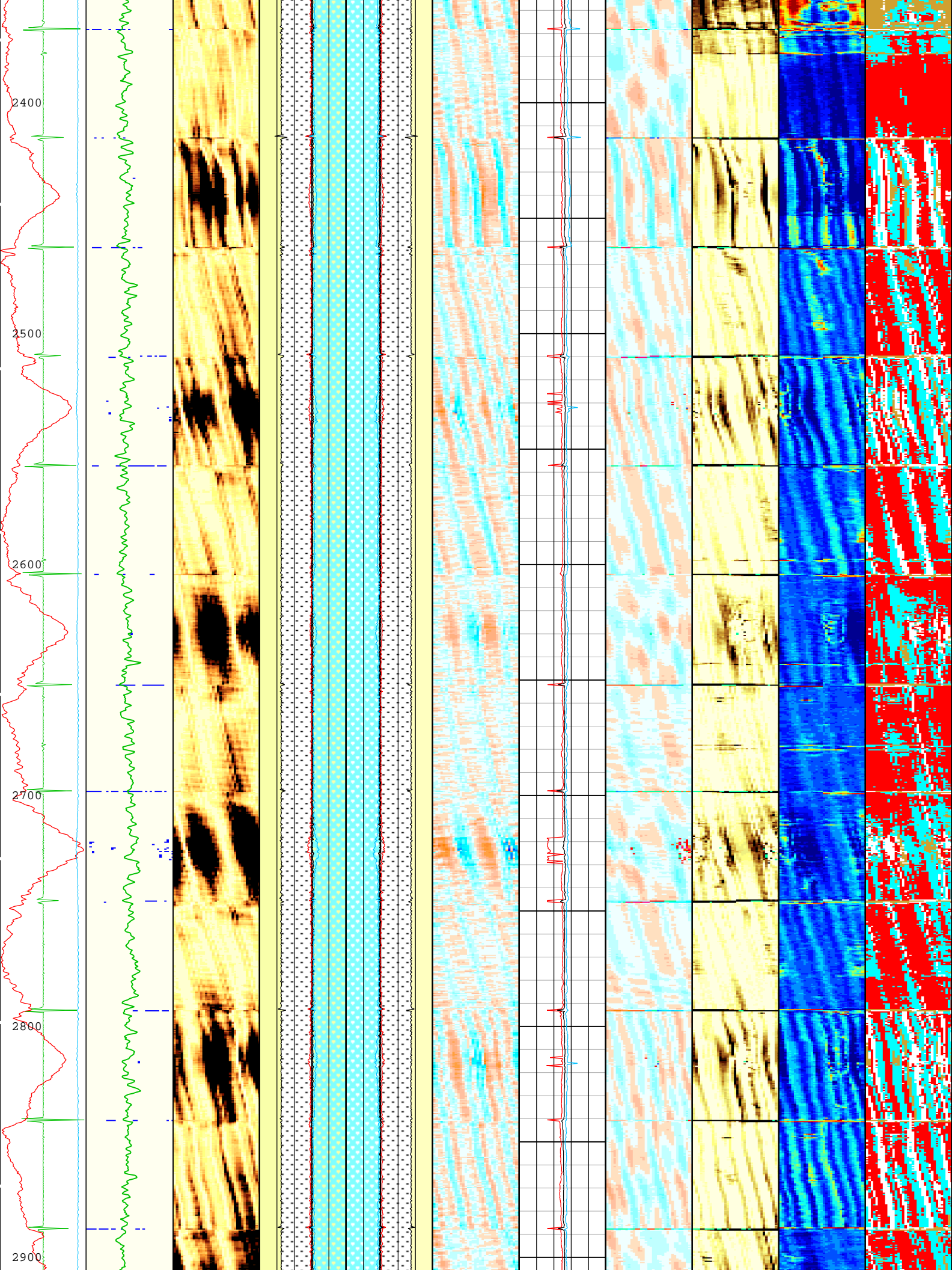


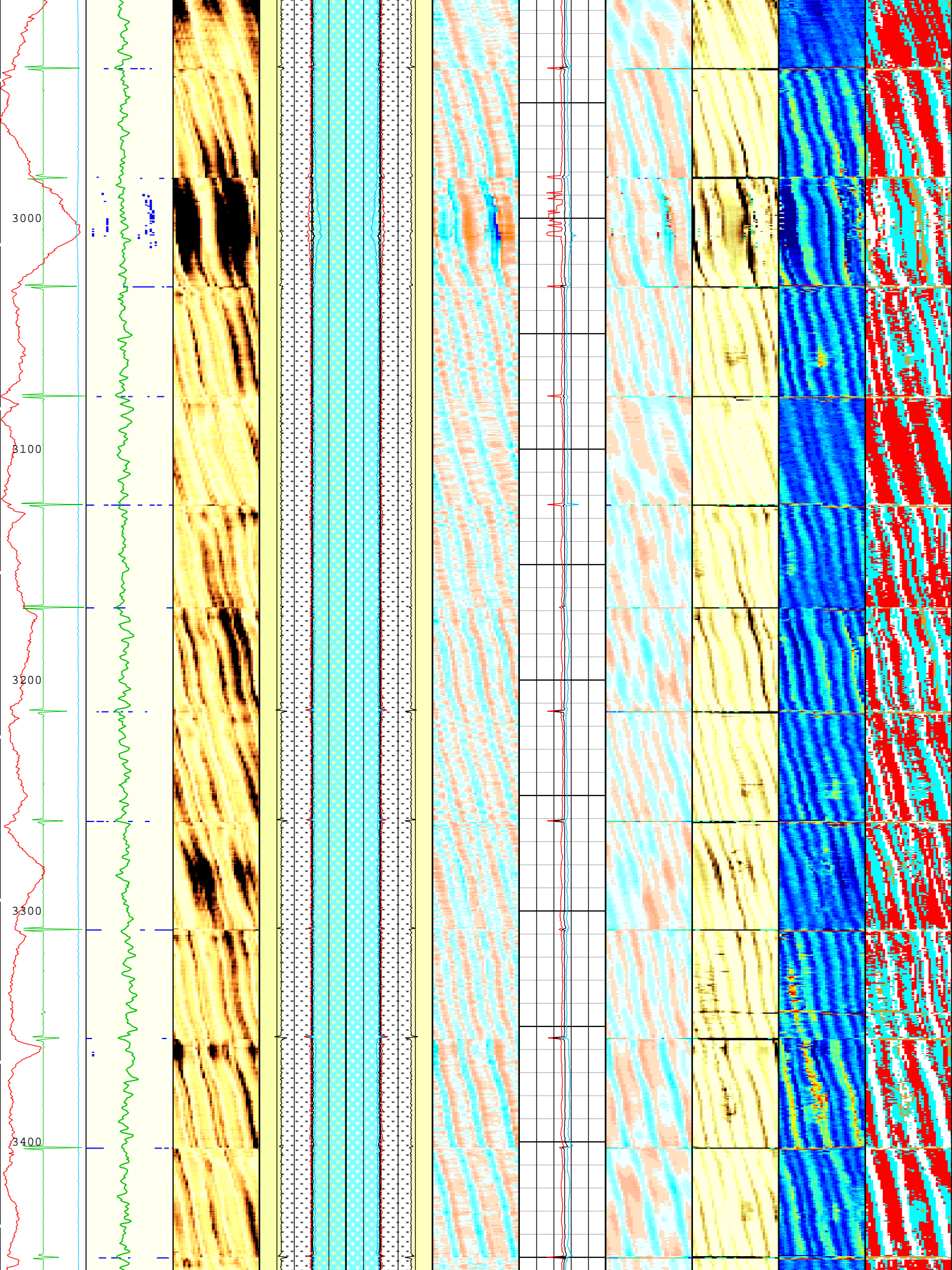




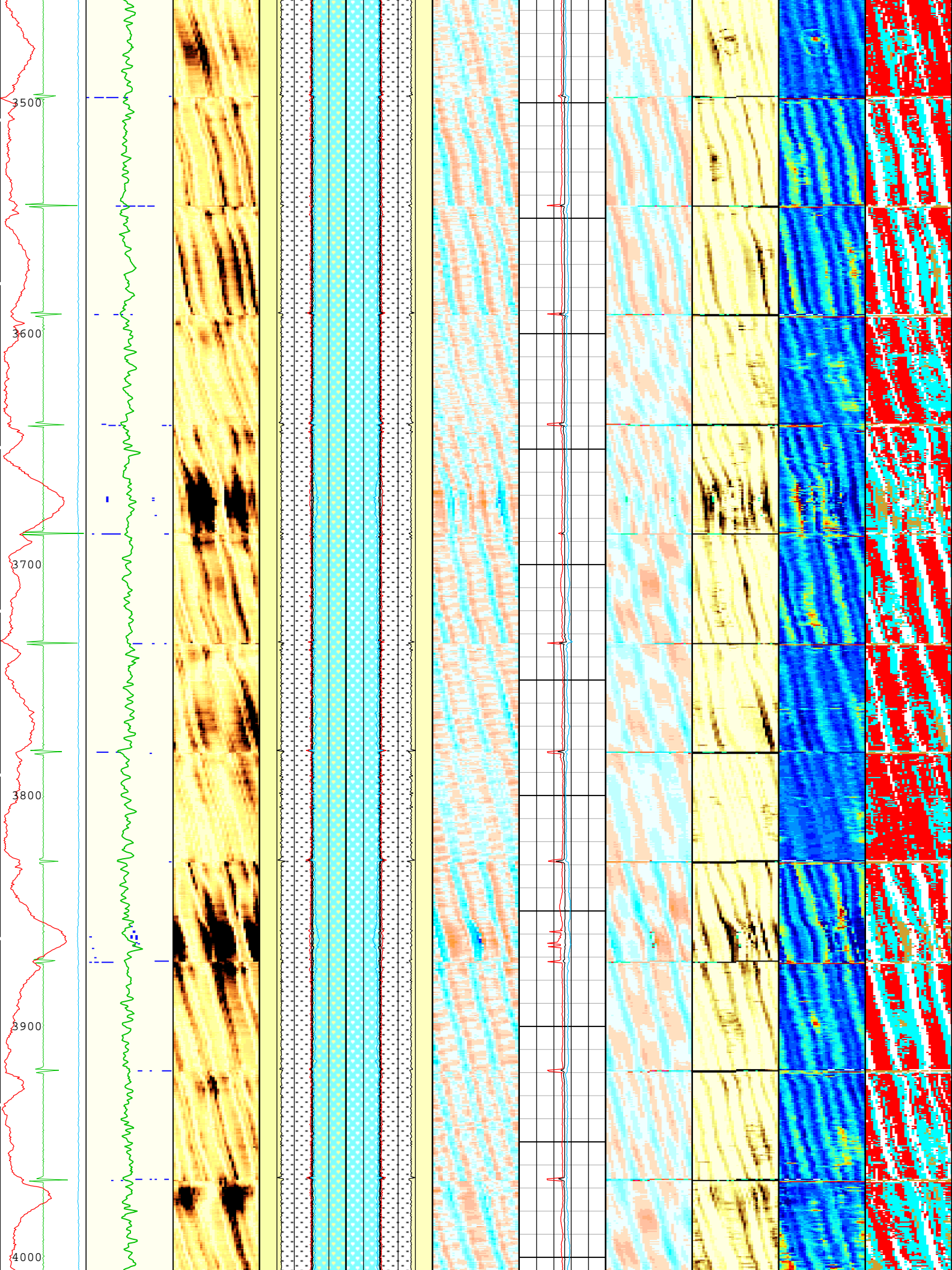




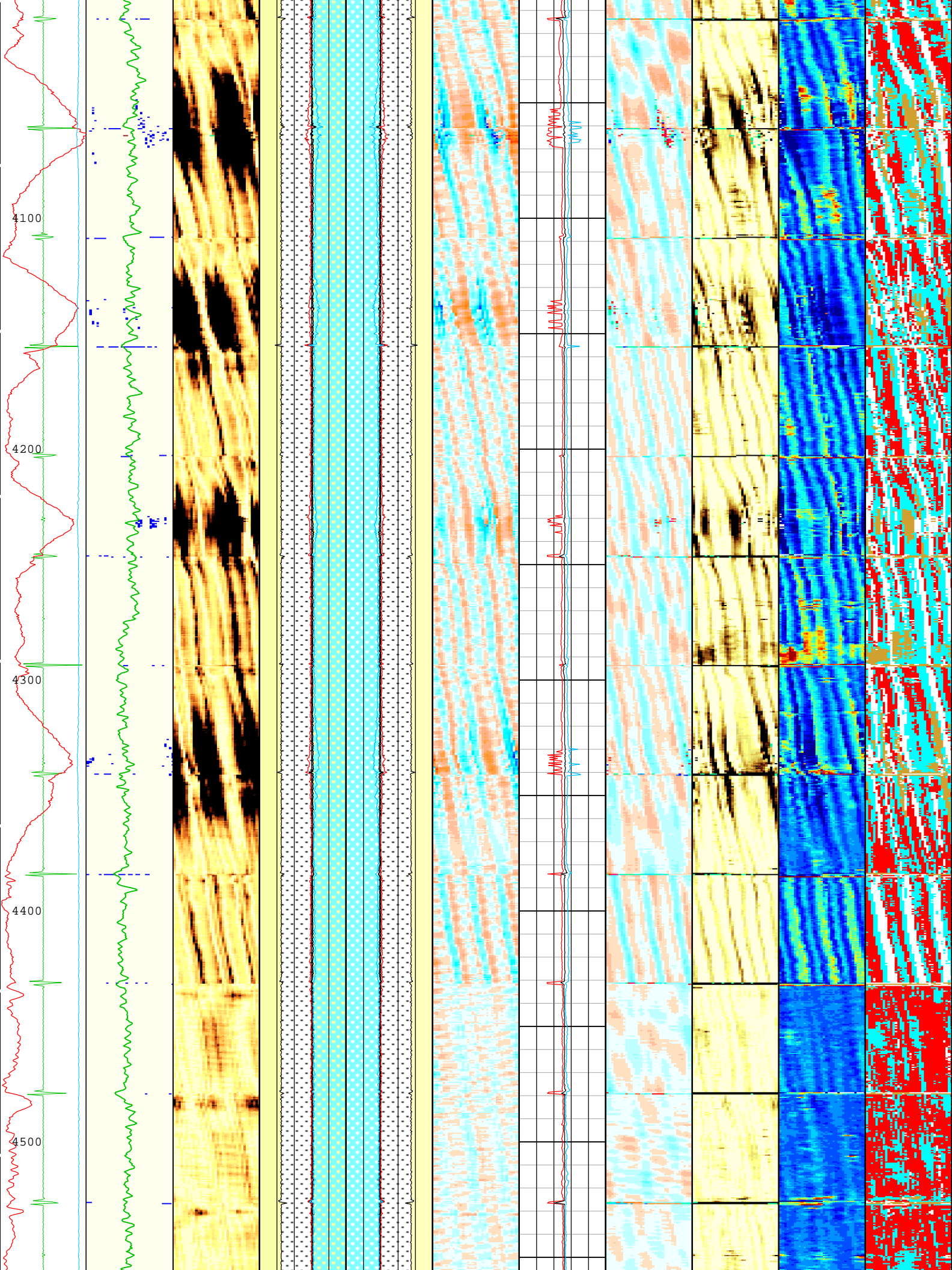


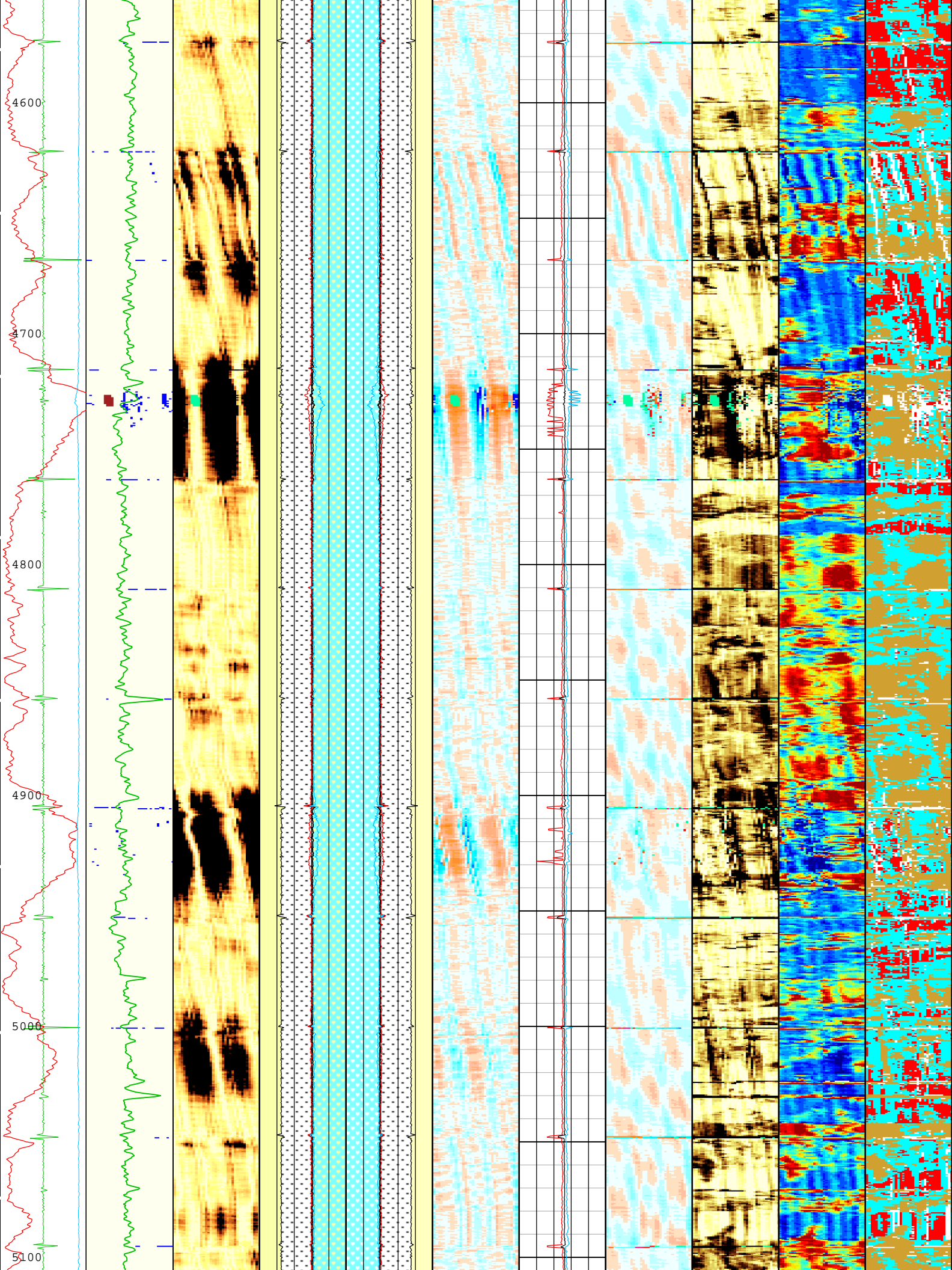




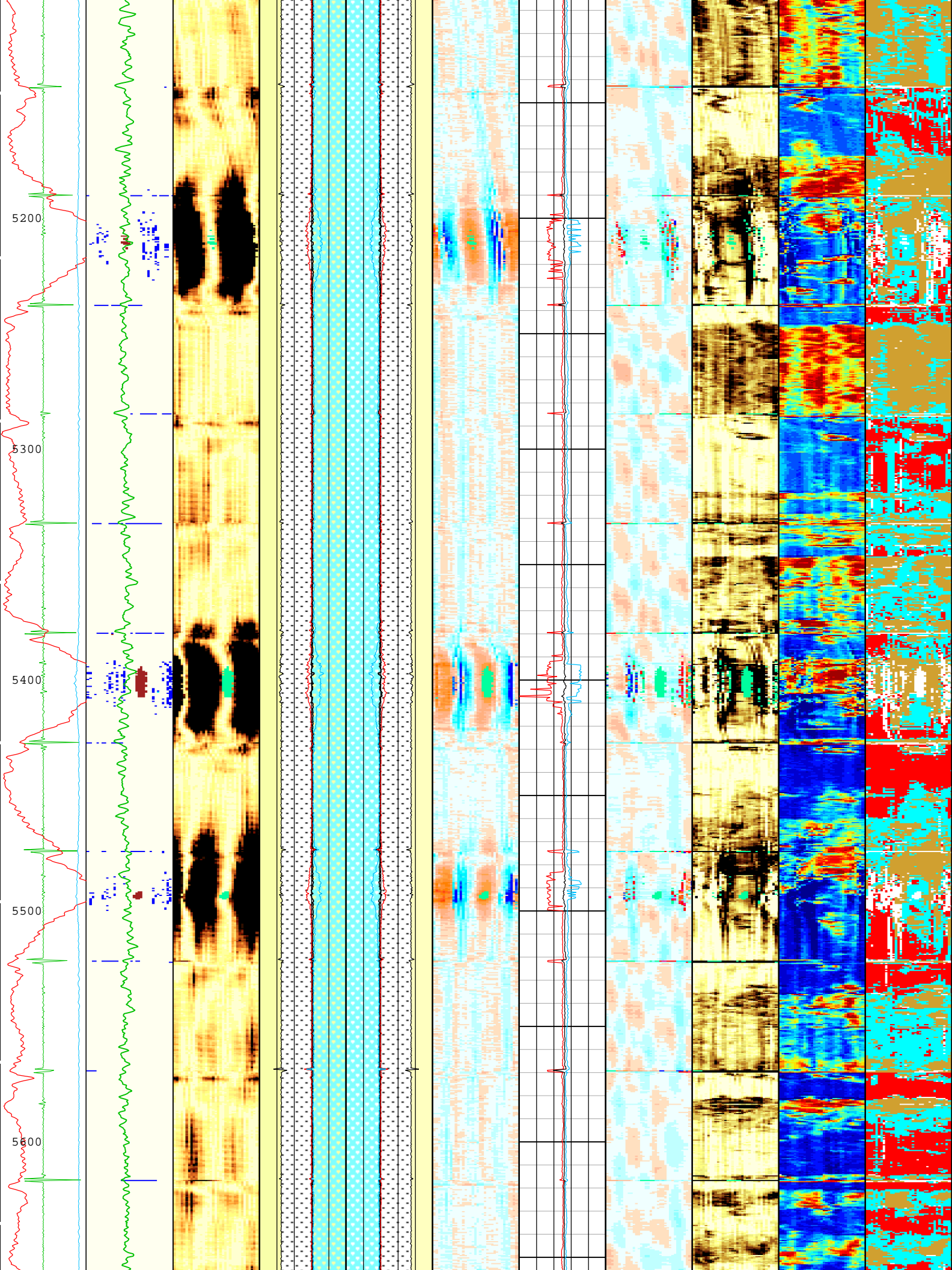


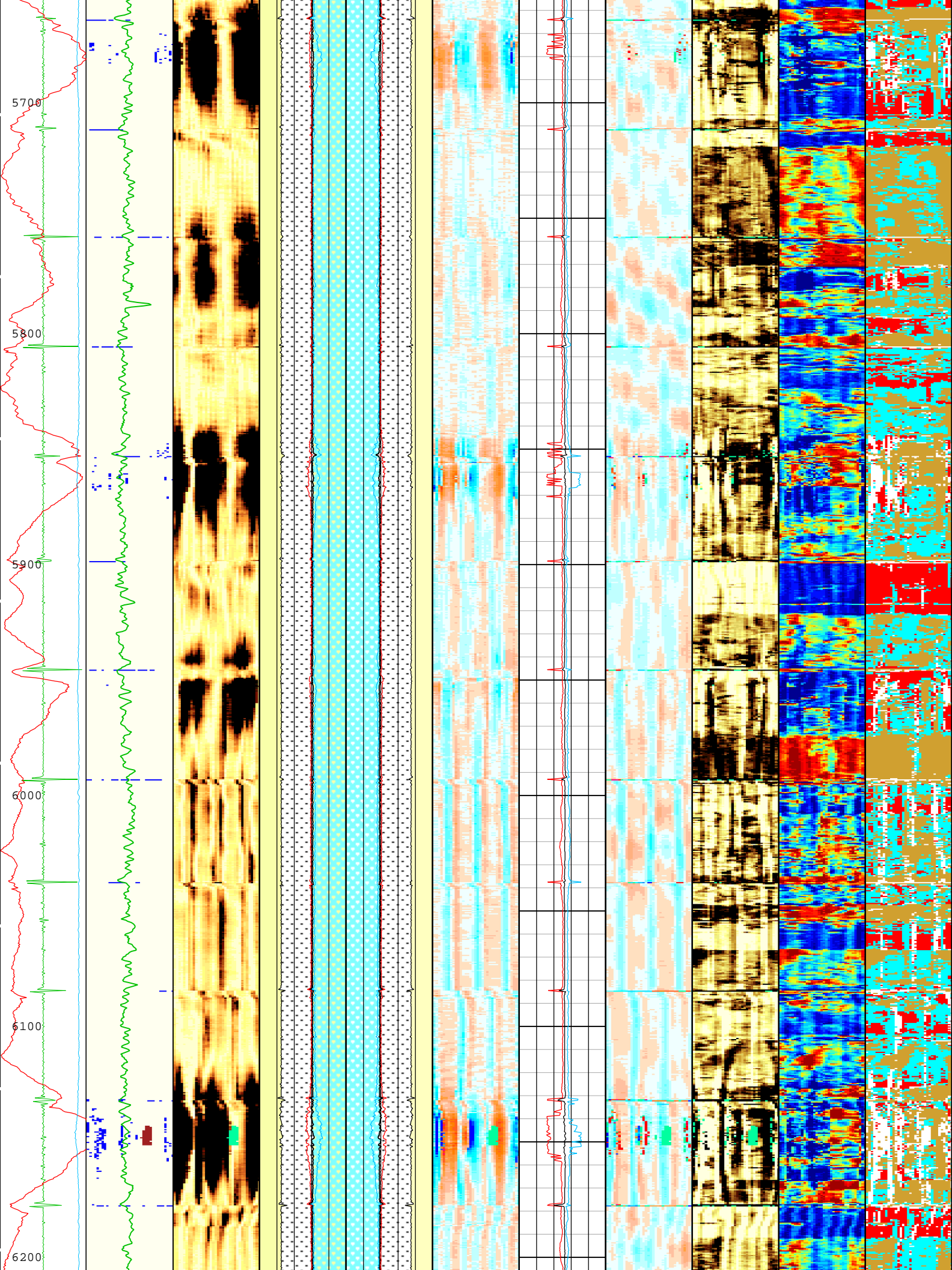




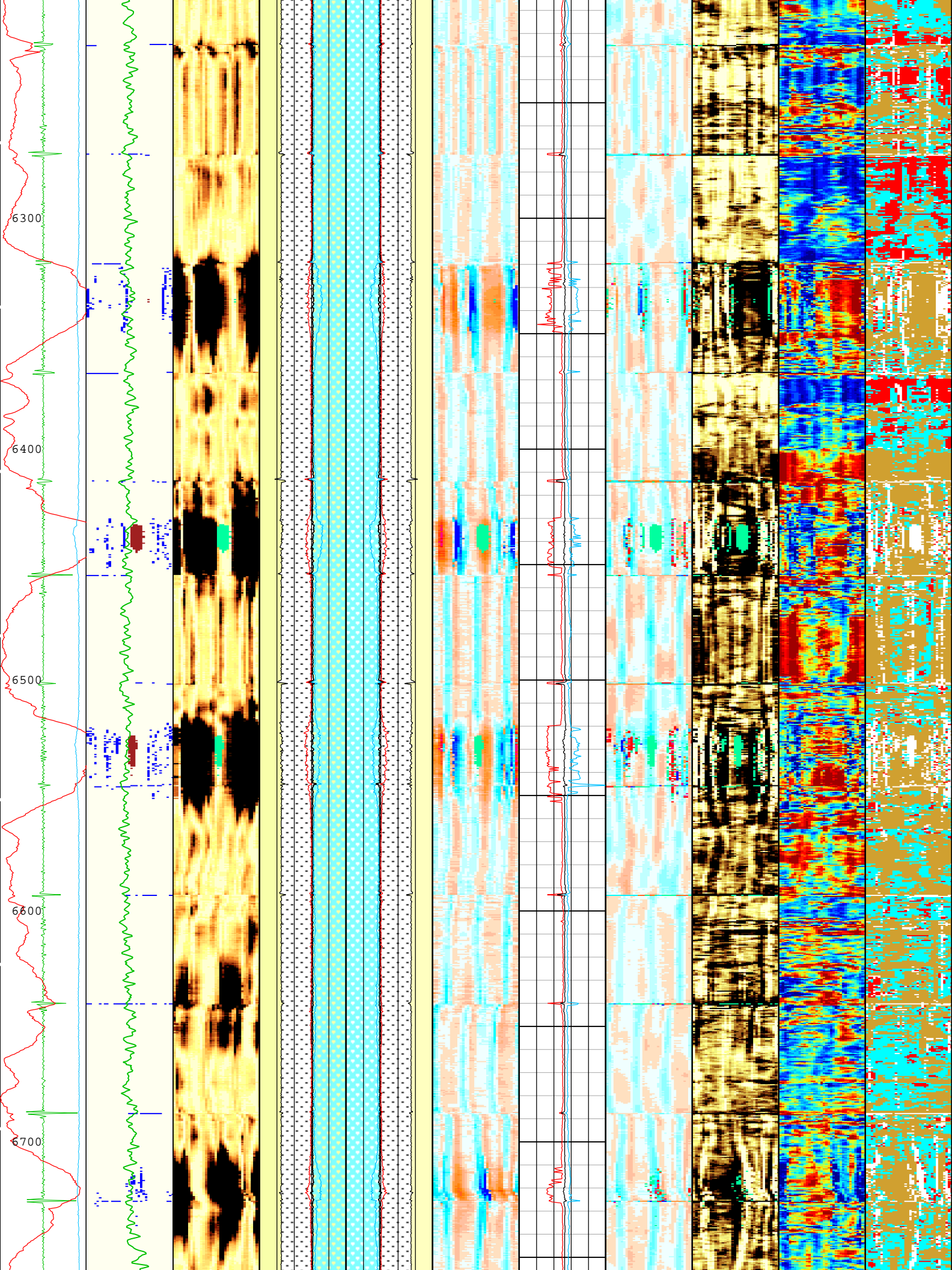
















BS	Bit Size	WLSESSION	Depth Zoned	in
CBLO	Casing Bottom (Logger)	WLSESSION	14670	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.4	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	-31.11	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	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.2	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.11	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.64	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-33.39	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

ONE

Depth Zoned Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
BS	13.5	58	2165
BS	8.5	2165	6913.5
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	137	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	Time Zoned	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

ONETime Zoned Parameters

Pass Log[7]:Up					
Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
EMXV	70	22-Sep-2018 16:04:21	22-Sep-2018 16:33:23	6914.34	4902.45
EMXV	80	22-Sep-2018 16:33:23	22-Sep-2018 16:49:54	4902.45	3726.25
EMXV	70	22-Sep-2018 16:49:54	22-Sep-2018 17:15:33	3726.25	1925
U-USIT_UFWE	177	22-Sep-2018 16:04:21	22-Sep-2018 16:50:38	6914.34	3674.33
U-USIT_UFWE	170.59	22-Sep-2018 16:50:38	22-Sep-2018 16:50:57	3674.33	3651.81
U-USIT_UFWE	174.06	22-Sep-2018 16:50:57	22-Sep-2018 16:57:25	3651.81	3194.31
U-USIT_UFWE	177.52	22-Sep-2018 16:57:25	22-Sep-2018 17:15:33	3194.31	1925
U-USIT_UNWE	146	22-Sep-2018 16:04:21	22-Sep-2018 16:50:54	6914.34	3656.37
U-USIT_UNWE	147.48	22-Sep-2018 16:50:54	22-Sep-2018 16:58:30	3656.37	3117.26
U-USIT_UNWE	146.33	22-Sep-2018 16:58:30	22-Sep-2018 17:15:33	3117.26	1925
WINB	31.88	22-Sep-2018 16:04:35	22-Sep-2018 17:15:33	6914.34	1925
WINE	71.88	22-Sep-2018 16:04:21	22-Sep-2018 16:05:37	6914.34	6862.88
WINE	73.64	22-Sep-2018 16:05:37	22-Sep-2018 16:05:43	6862.88	6856.38
WINE	74.03	22-Sep-2018 16:05:43	22-Sep-2018 17:15:33	6856.38	1925

Pass Log[8]:Up					
EMXV	70	22-Sep-2018 17:25:07	22-Sep-2018 17:54:42	1925.01	58.34
U-USIT_UFWE	182.14	22-Sep-2018 17:25:07	22-Sep-2018 17:54:42	1925.01	58.34
U-USIT_UNWE	146	22-Sep-2018 17:25:07	22-Sep-2018 17:54:42	1925.01	58.34
WINB	31.88	22-Sep-2018 17:24:38	22-Sep-2018 17:40:32	1925.01	832.37
WINB	33.61	22-Sep-2018 17:40:32	22-Sep-2018 17:54:42	832.37	58.34
WINE	71.88	22-Sep-2018 17:24:38	22-Sep-2018 17:25:21	1925.01	1910.36
WINE	73.42	22-Sep-2018 17:25:21	22-Sep-2018 17:40:28	1910.36	836.47
WINE	75.6	22-Sep-2018 17:40:28	22-Sep-2018 17:54:42	836.47	58.34

All depths are at tool zero.

Composite 1

IBC Goodwin Compressed

Composite Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[7]:Up	Up	1905.66 ft	6914.42 ft	22-Sep-2018 4:04:21 PM	22-Sep-2018 5:15:33 PM	ON	8.03 ft	Yes
ONE	Log[8]:Up	Up	58.28 ft	1931.60 ft	22-Sep-2018 5:24:38 PM	22-Sep-2018 5:54:42 PM	ON	8.29 ft	Yes

All depths are referenced to toolstring zero

Log	<div> <div>Company:Crestone Peak Resources Operating LLC</div> <div>Well:Davis 1O-9H-G266</div> <div>Composite 1:S005</div> </div>
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Description: USI Goodwin

Format: Log ( IBC Goodwin )

Index Scale: 0.1 in per 100 ft

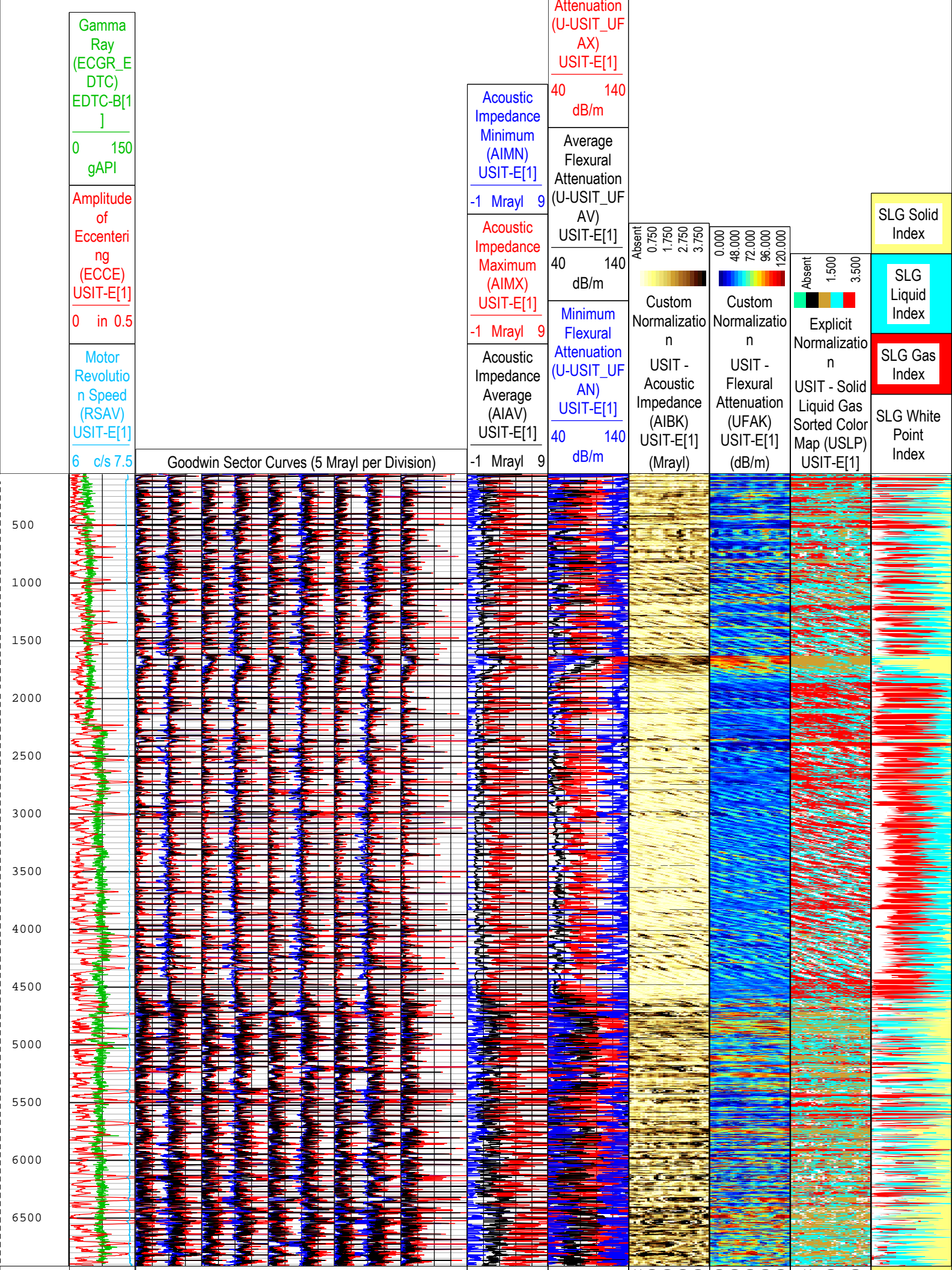
Index Unit: ft

Index Type: Measured Depth

Creation Date: 23-Sep-2018 15:10:28

TIME\_1900 - Time Marked every 60.00 (s)

Maximum Flexural Attenuation





<div>Gamma Ray (ECGR_EDTC) EDTC-B[1]</div> <div>0150gAPI</div> <div>Amplitude of Eccentering (ECCE) USIT-E[1]</div> <div>0in0.5</div> <div>Motor Revolution Speed (RSAV) USIT-E[1]</div> <div>6c/s7.5</div>	Goodwin Sector Curves (5 Mrayl per Division)		<div>Acoustic Impedance Minimum (AIMN) USIT-E[1]</div> <div>-1Mrayl9</div> <div>Acoustic Impedance Maximum (AIMX) USIT-E[1]</div> <div>-1Mrayl9</div> <div>Acoustic Impedance Average (AIAV) USIT-E[1]</div> <div>-1Mrayl9</div>	<div>Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E[1]</div> <div>40140dB/m</div> <div>Average Flexural Attenuation (U-USIT_UFAN) USIT-E[1]</div> <div>40140dB/m</div>	<div>Absent</div> <div>0.7501.7502.7503.750</div> <div>Custom Normalization</div> <div>USIT - Acoustic Impedance (AIBK) USIT-E[1] (Mrayl)</div>	<div>Absent</div> <div>0.00048.00072.00096.000120.000</div> <div>Custom Normalization</div> <div>USIT - Flexural Attenuation (UFAK) USIT-E[1] (dB/m)</div>	<div>Absent</div> <div>1.5003.500</div> <div>Explicit Normalization</div> <div>USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E[1]</div>	SLG Solid Index
								SLG Liquid Index
								SLG Gas Index
								SLG White Point Index

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: 23-Sep-2018 15:10:28

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[5]:Up	Up	1986.77 ft	2310.64 ft	22-Sep-2018 3:41:03 PM	22-Sep-2018 3:45:53 PM	ON	-2.07 ft	Yes
All depths are referenced to toolstring zero									
Log	Company:Crestone Peak Resources Operating LLC						Well:Davis 10-9H-G266		
ONE: Log[5]:Up:S005									

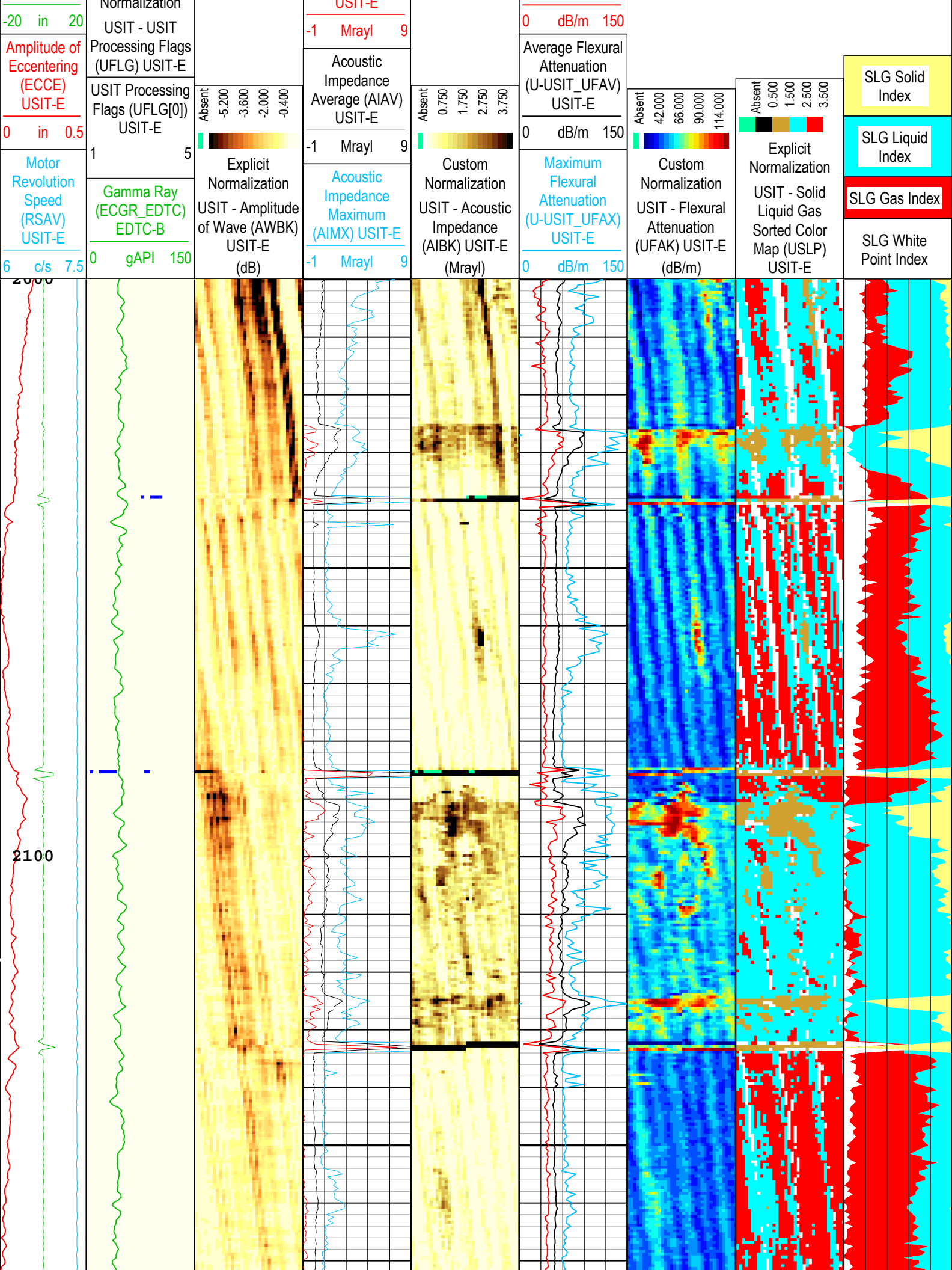
Description: USI IBC SLG    Format: Log ( IBC SLG )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 23-Sep-2018 15:10:34

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>					

Casing Collar Locator Ultrasonic (CCLU) USIT-E	<div>Absent</div> <div>1.5003.500</div> <div>Explicit Normalization</div>	<div>Acoustic Impedance Minimum (AIMN) USIT-E</div>	<div>Minimum Flexural Attenuation (U-USIT_UFAN) USIT-E</div>





■ Loop Processing Error

TIME\_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG    Format: Log ( IBC SLG )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 23-Sep-2018 15:10:34

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	14670	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	Light 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	8.4	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	-31.11	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	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.2	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.11	
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	1.64	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-33.39	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	2000	2165
BS	8.5	2165	2300

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	70	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	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[7]:Up	Up	1905.66 ft	6914.42 ft	22-Sep-2018 4:04:21 PM	22-Sep-2018 5:15:33 PM	ON	8.03 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources Operating LLC	Well:Davis 10-9H-G266
		ONE: Log[7]:Up:S005

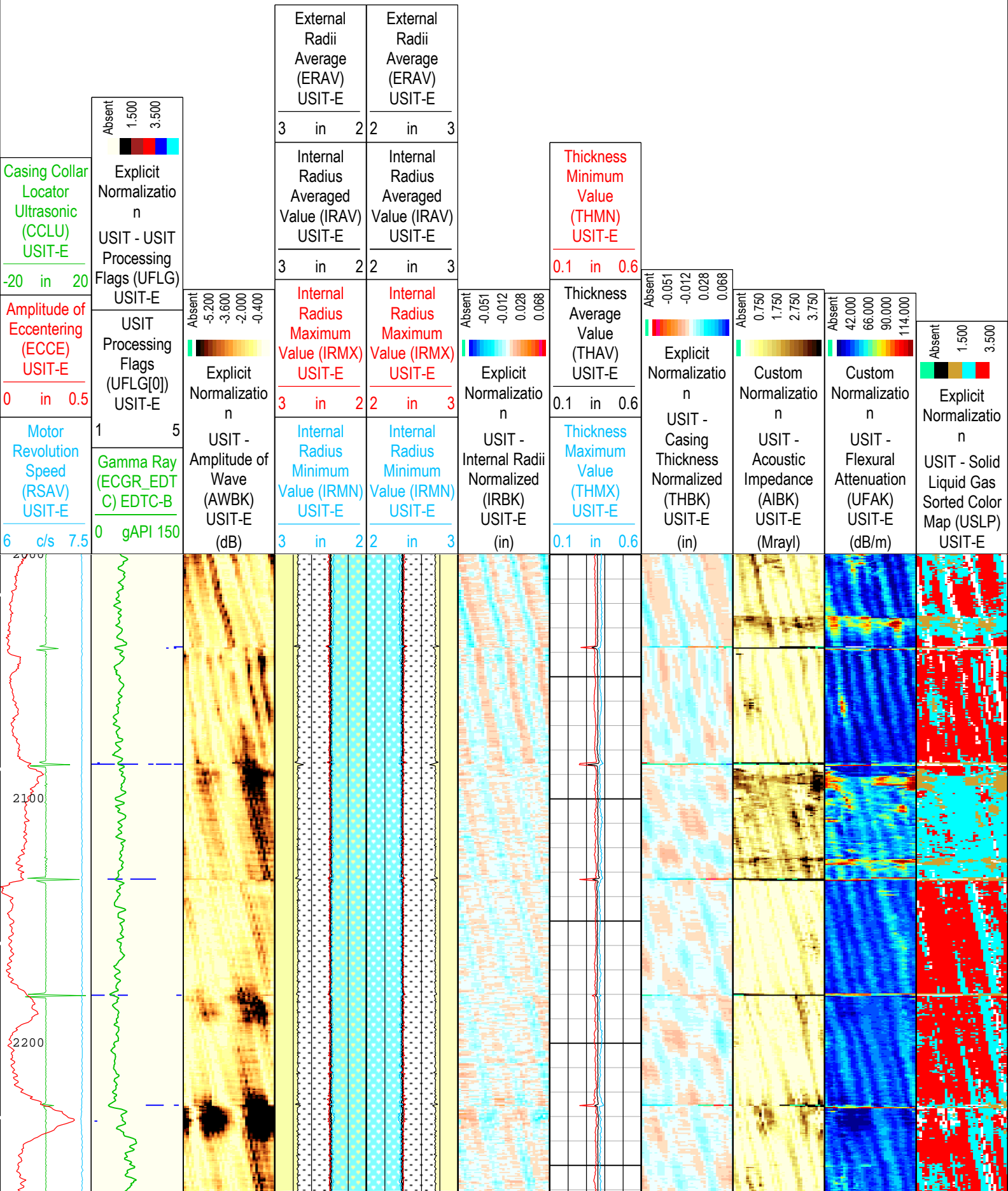
Description: USI IBC SLG Composite    Format: Log ( IBC SLG Composite )    Index Scale: 2 in per 100 ft    Index Unit: ft    Index Type: Measured Depth  
Creation Date: 23-Sep-2018 15:10:38

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

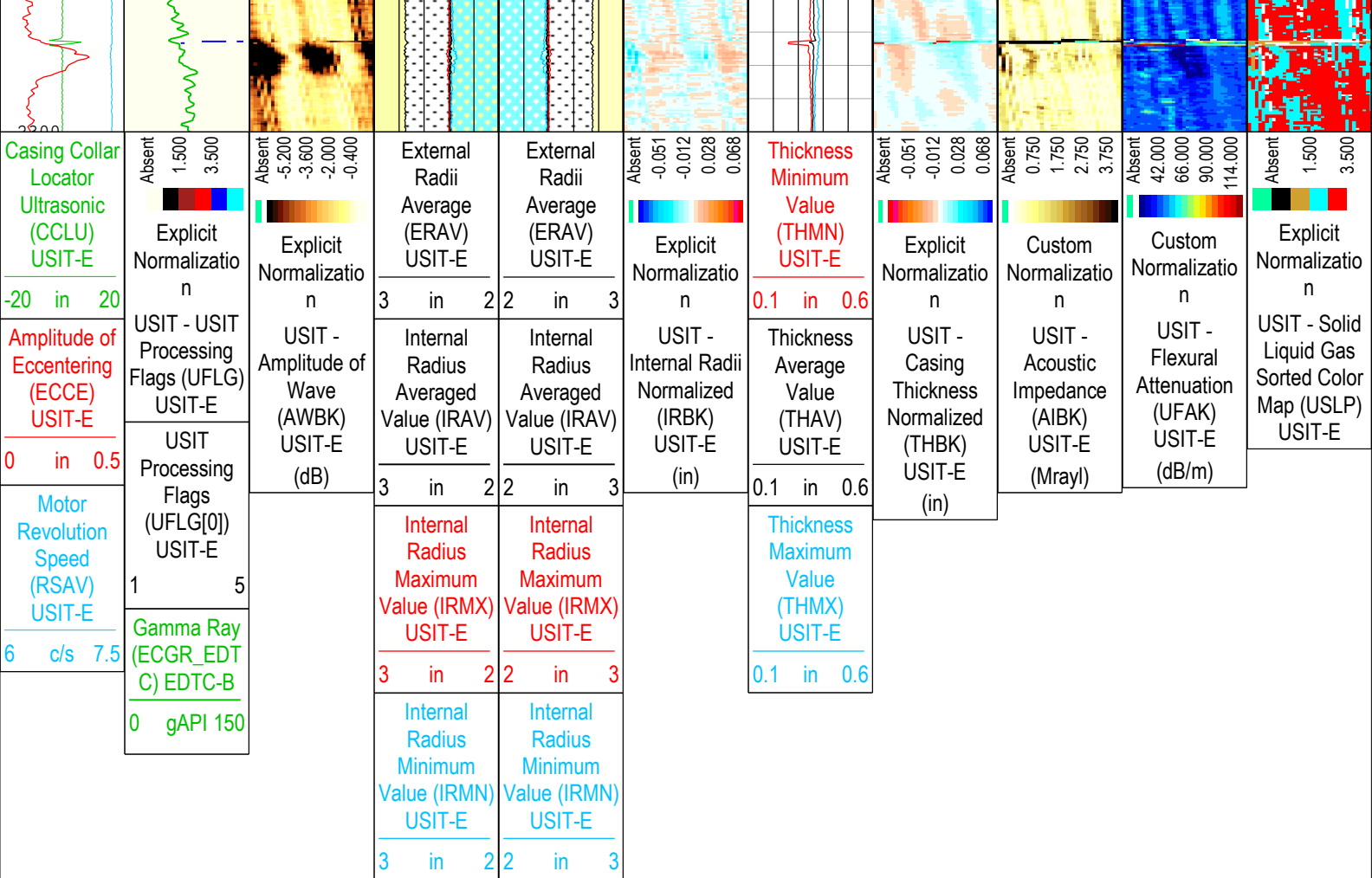
1. UFLG 1 Value within [0.0, 1.5] :  USIT Error

- UFLG 1 Value within [0.0 - 1.5] - :  THMN 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] - :               |  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 Composite    Format: Log ( IBC SLG Composite )    Index Scale: 2 in per 100 ft    Index Unit: ft    Index Type: Measured Depth  
Creation Date: 23-Sep-2018 15:10:38

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	14670	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	Light 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	8.4	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	-31.11	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	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.2	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.11	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.64	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-33.39	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	2000	2165	
BS	8.5	2165	2300	
All depth are actual.				

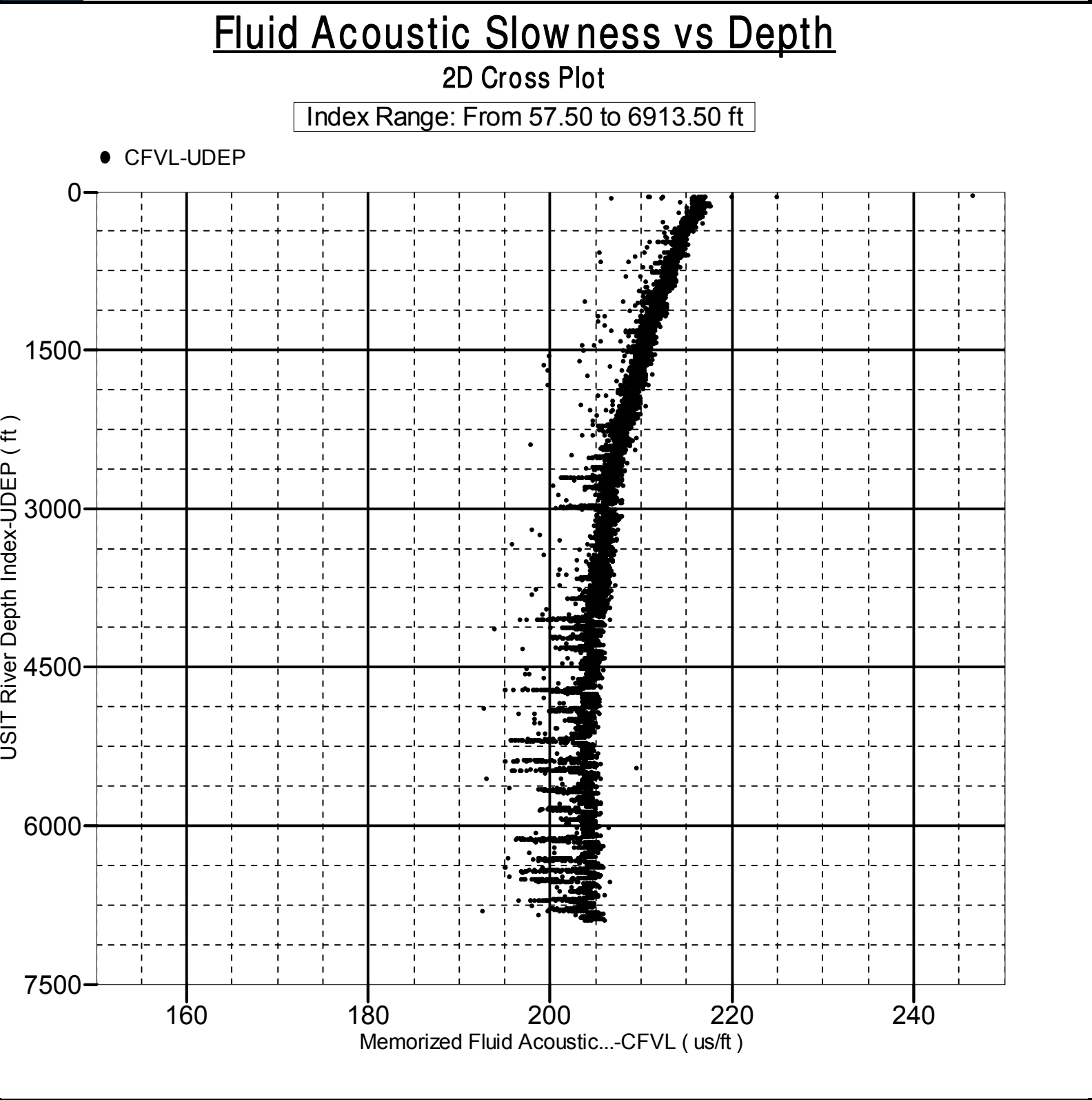
Tool Control Parameters	
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ONE: Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	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	137	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	Time Zoned	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	Time Zoned	us

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
EMXV	70	22-Sep-2018 16:04:21	22-Sep-2018 16:33:23	6914.42	4902.45
EMXV	80	22-Sep-2018 16:33:23	22-Sep-2018 16:49:54	4902.45	3726.25
EMXV	70	22-Sep-2018 16:49:54	22-Sep-2018 17:15:33	3726.25	1905.66
U-USIT_UFWE	177	22-Sep-2018 16:04:21	22-Sep-2018 16:50:38	6914.42	3674.33
U-USIT_UFWE	170.59	22-Sep-2018 16:50:38	22-Sep-2018 16:50:57	3674.33	3651.81
U-USIT_UFWE	174.06	22-Sep-2018 16:50:57	22-Sep-2018 16:57:25	3651.81	3194.31

U-USIT_UFWE	177.52	22-Sep-2018 16:57:25	22-Sep-2018 17:15:33	3194.31	1905.66
U-USIT_UNWE	146	22-Sep-2018 16:04:21	22-Sep-2018 16:50:54	6914.42	3656.37
U-USIT_UNWE	147.48	22-Sep-2018 16:50:54	22-Sep-2018 16:58:30	3656.37	3117.26
U-USIT_UNWE	146.33	22-Sep-2018 16:58:30	22-Sep-2018 17:15:33	3117.26	1905.66
WINE	71.88	22-Sep-2018 16:04:21	22-Sep-2018 16:05:37	6914.42	6862.88
WINE	73.64	22-Sep-2018 16:05:37	22-Sep-2018 16:05:43	6862.88	6856.38
WINE	74.03	22-Sep-2018 16:05:43	22-Sep-2018 17:15:33	6856.38	1905.66

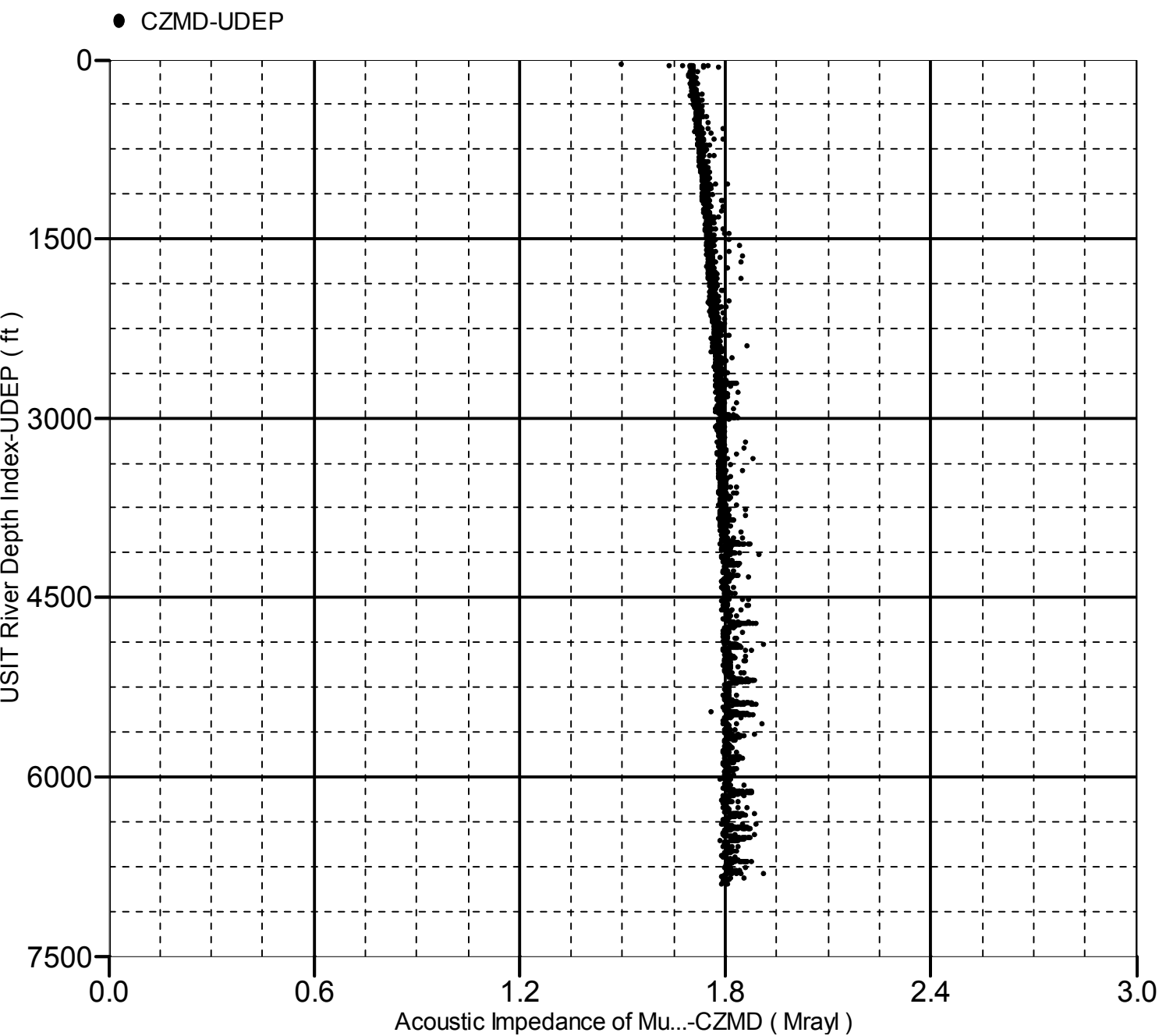
All depth are at tool zero.



# Acoustic Impedance of Mud vs Depth

## 2D Cross Plot

Index Range: From 57.50 to 6913.50 ft



Company:	Crestone Peak Resources Operating LLC	<b>Schlumberger</b>
Well:	Davis 1O-9H-G266	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	

Isolation Scanner  
Cement Evaluation



