

Company: Crestone Peak Resources Operating LLC

Well: Davis 1H-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 1H-9H-G266
Company: Crestone Peak Resources Operating LLC

Location:		SWSE Sec. 9, T2N, R66W	Elev.:	K.B.	4940.00 ft
		SHL: 1943' FSL & 1413' FEL			
		Lat/Long: 40.154488, -104.777857			
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:	
05-123-46512	9	2N		66W	

Logging Date 20-Sep-2018

Run Number ONE

Depth Driller 14730.00 ft

Schlumberger Depth 14730.00 ft

Bottom Log Interval 6575.00 ft

Top Log Interval 60.00 ft

Casing Fluid Type Water

Salinity

Density 8.4 lbm/gal

Fluid Level 0.00 ft

BIT/CASING/TUBING STRING

Bit Size 8.50 in

From 2125.00 ft

To 14730.00 ft

Casing/Tubing Size 5.5 in

Weight 20 lbm/ft

Grade P110

From 0.00 ft

To 14720.00 ft

Max Recorded Temperatures 193.22 degF

Logger on Bottom 20-Sep-2018

Unit Number 9108

Recorded By A.BLOCHOWICZ

Witnessed By DUANE DUNN

Disclaimer

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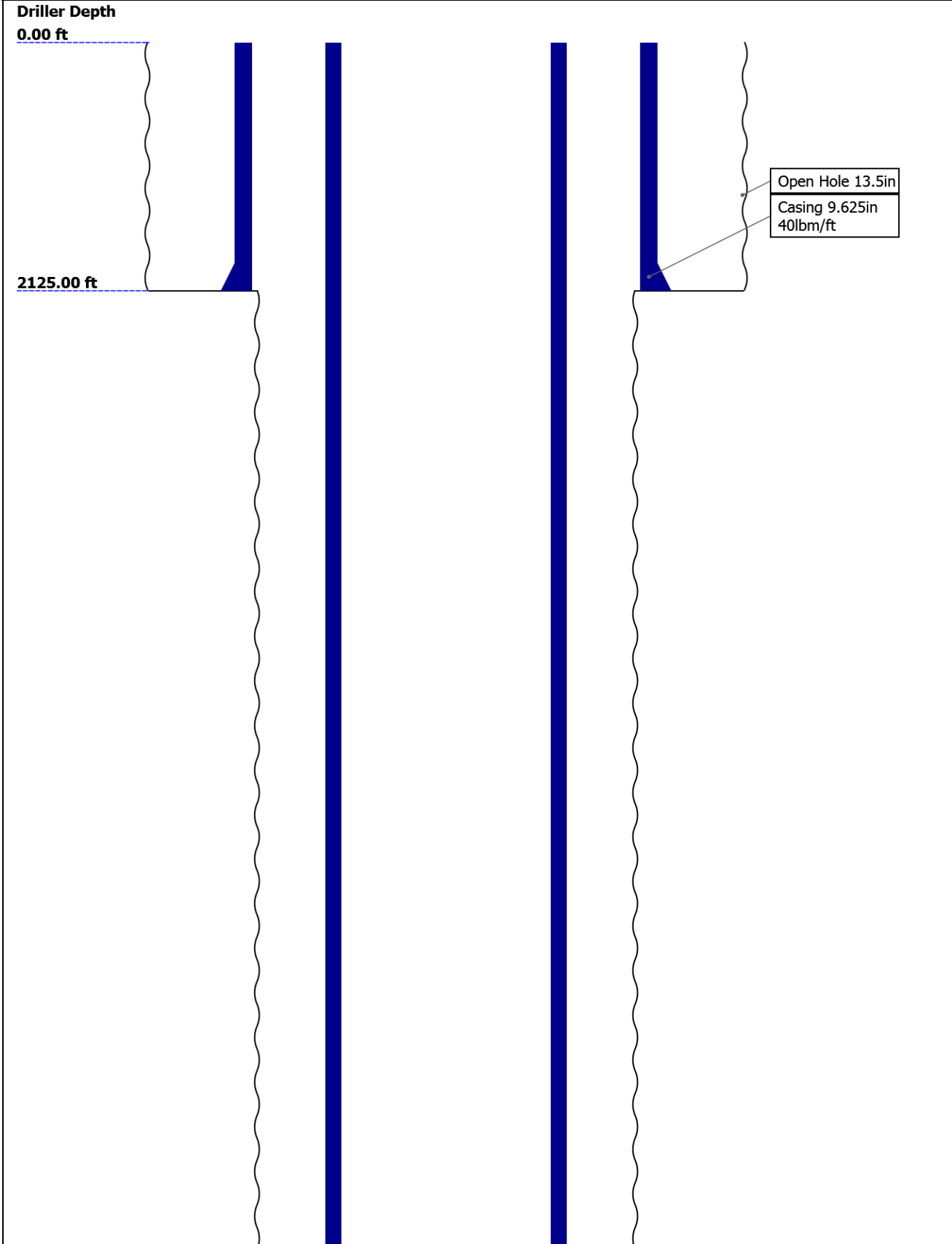
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Well Sketch



14720.00 ft

14730.00 ft

Casing 5.5in
20lbm/ft

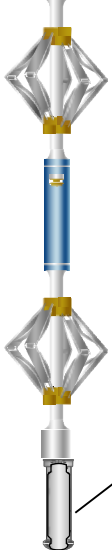
Open Hole 8.5in

Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	13.5	8.5				
Top Driller (ft)	0	2125				
Top Logger (ft)	0	2125				
Bottom Driller (ft)	2125	14730				
Bottom Logger (ft)	2125	14730				
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)	2125	14720				
Bottom Logger (ft)	2125	14720				

Remarks and Equipment Summary

ONE: Toolstring				ONE: Remarks	
Equip name	Length	MP name	Offset	Thank you for choosing Schlumberger!	
LEH-QT	30.73			Tool string run as per tool sketch and client logging program.	
LEH-QT				5" Gemcos and in-line centralizers with small hole kit used for centralization.	
EDTC-B:8	27.24			All passes run under 0 PSI	
473M				Lead: 12.5 ppg	
EDTH-B:86				Tail: 13.5 ppg	
24				Spacer: 12 ppg	
EDTG-A:7					
7434					
EDTC-B:84					
73M					
AH-184[20.74				
2]:5941					
AH-184[18.74				
1]:5965					
USIT-E:17	16.74				
25					
ECH-MFA:					
1991					
USAC-A:1					
725					
USAC-A:10					

USIS-A:18 32 USSC-B:17 78 IBCS-A:77 4 FAR-SENS OR:4670 IBC-TX NEAR-SEN SOR:4642 IBC-TX USI-SENS OR:1358 IBC-TX EMITTER- SENSOR:4 561 IBC-TX	 <p>USI Sen 0.84 sor Head Te nsion</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	6579.52	55.74

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 = "Inversion Norm."
IBC Inversion normalization zone is : 650.09m(2132.84ft) to 654.03m(2145.76ft)
MUD_N_INV = 1.21
DFD = 1.01g/cm3(8.40lbm/gal)
CZMD median computed in inversion normalization interval = 1.83 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[7]:Up	Up	55.74 ft	6579.53 ft	20-Sep-2018 1:59:13 PM	20-Sep-2018 3:34:38 PM	ON	7.12 ft	Yes

All depths are referenced to toolstring zero

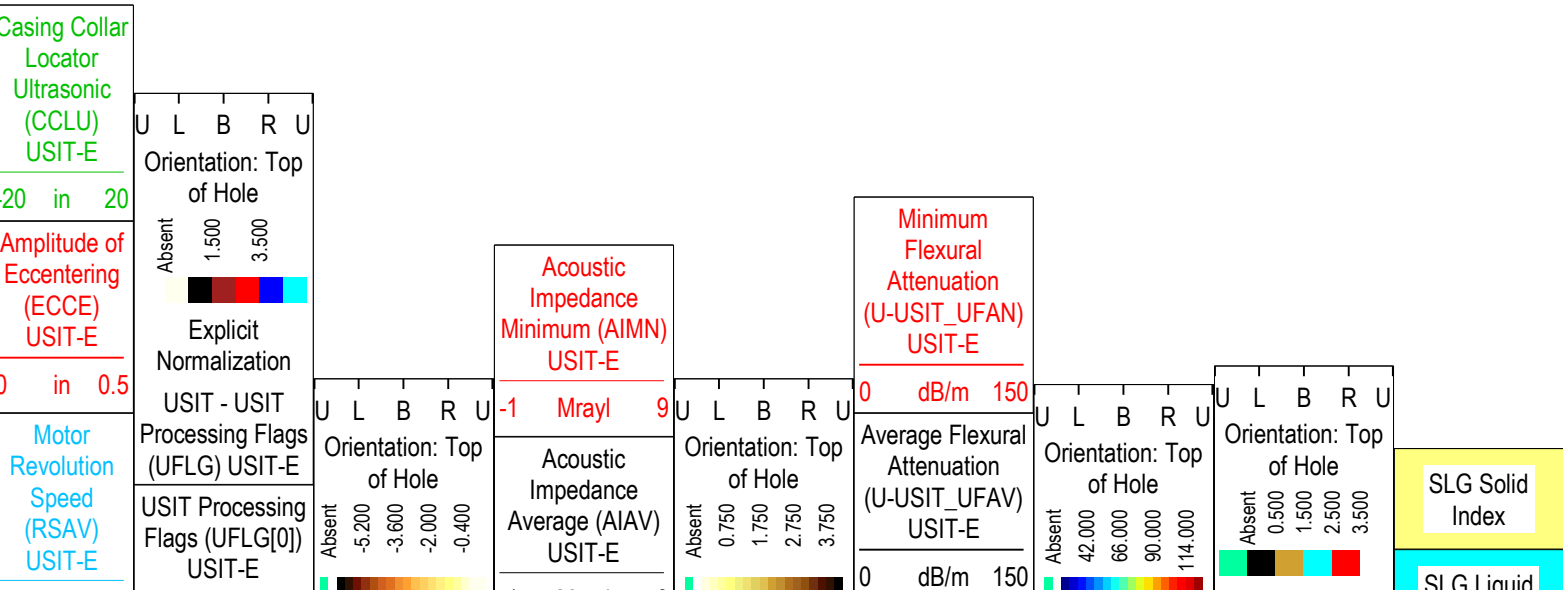
Log	Company:Crestone Peak Resources Operating LLC Well:Davis 1H-9H-G266 ONE: Log[7]:Up:S007
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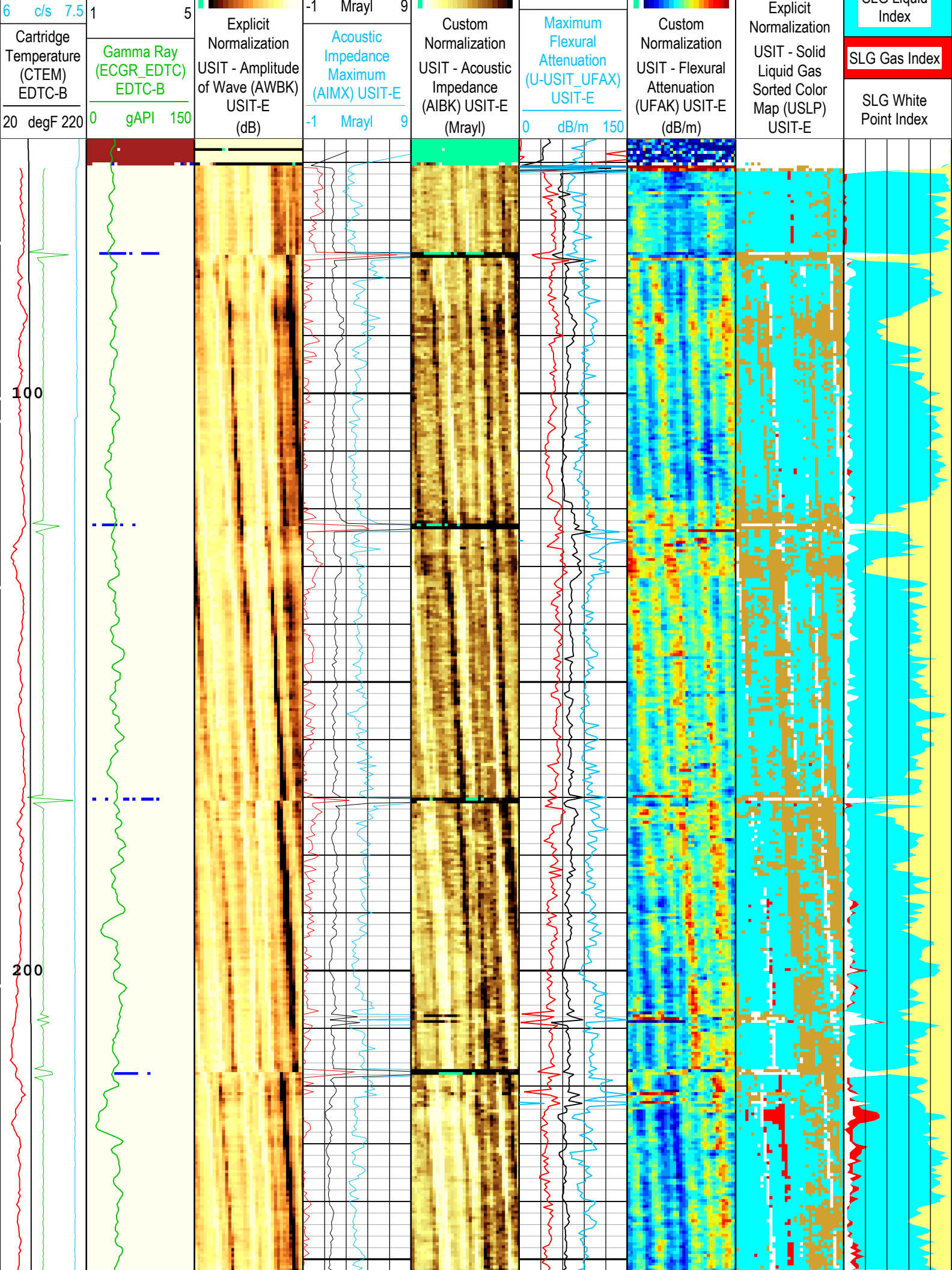
Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-Sep-2018 16:29:25

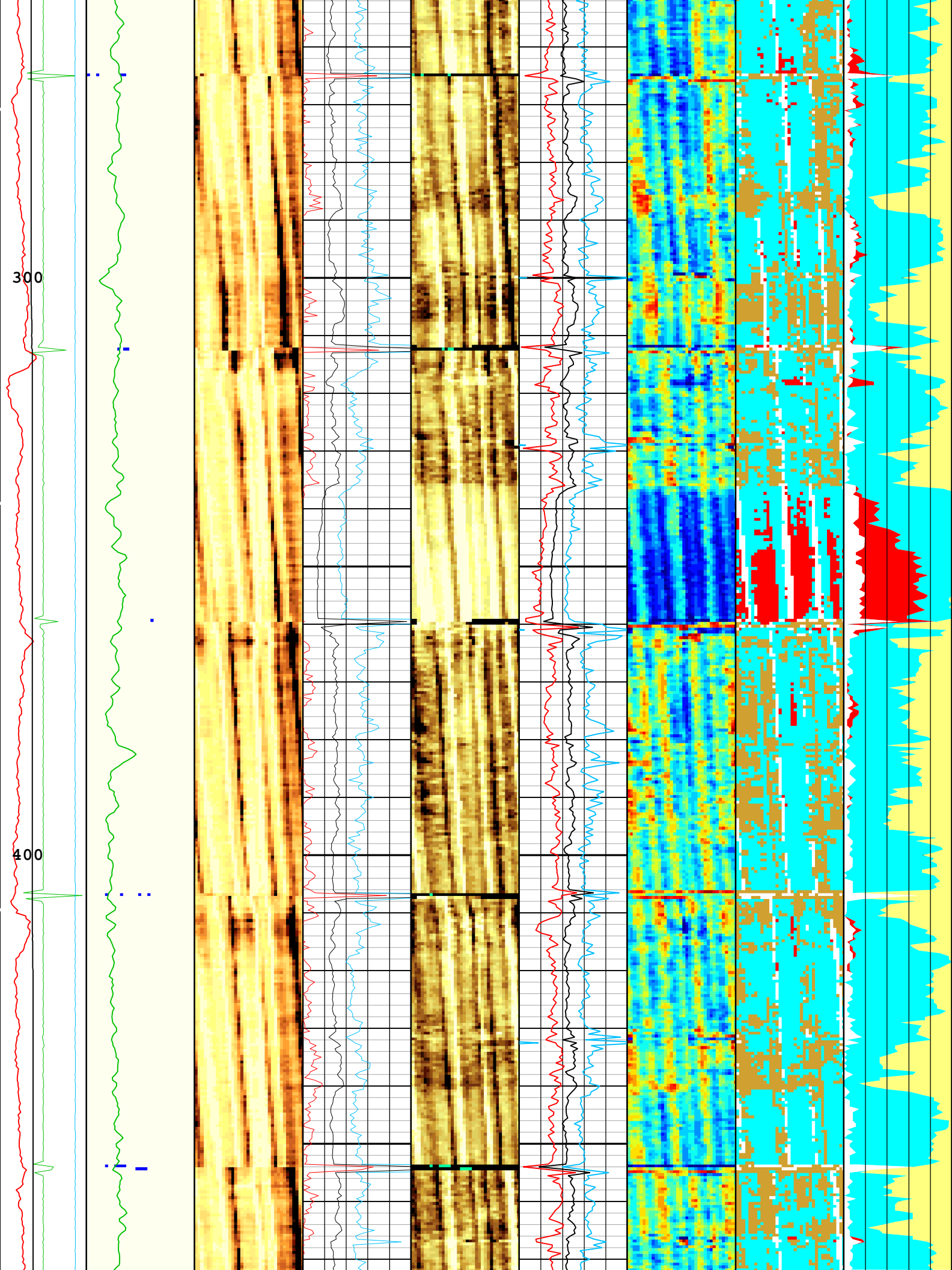
USIT Processing Flags (UFLG[0]) USIT-E

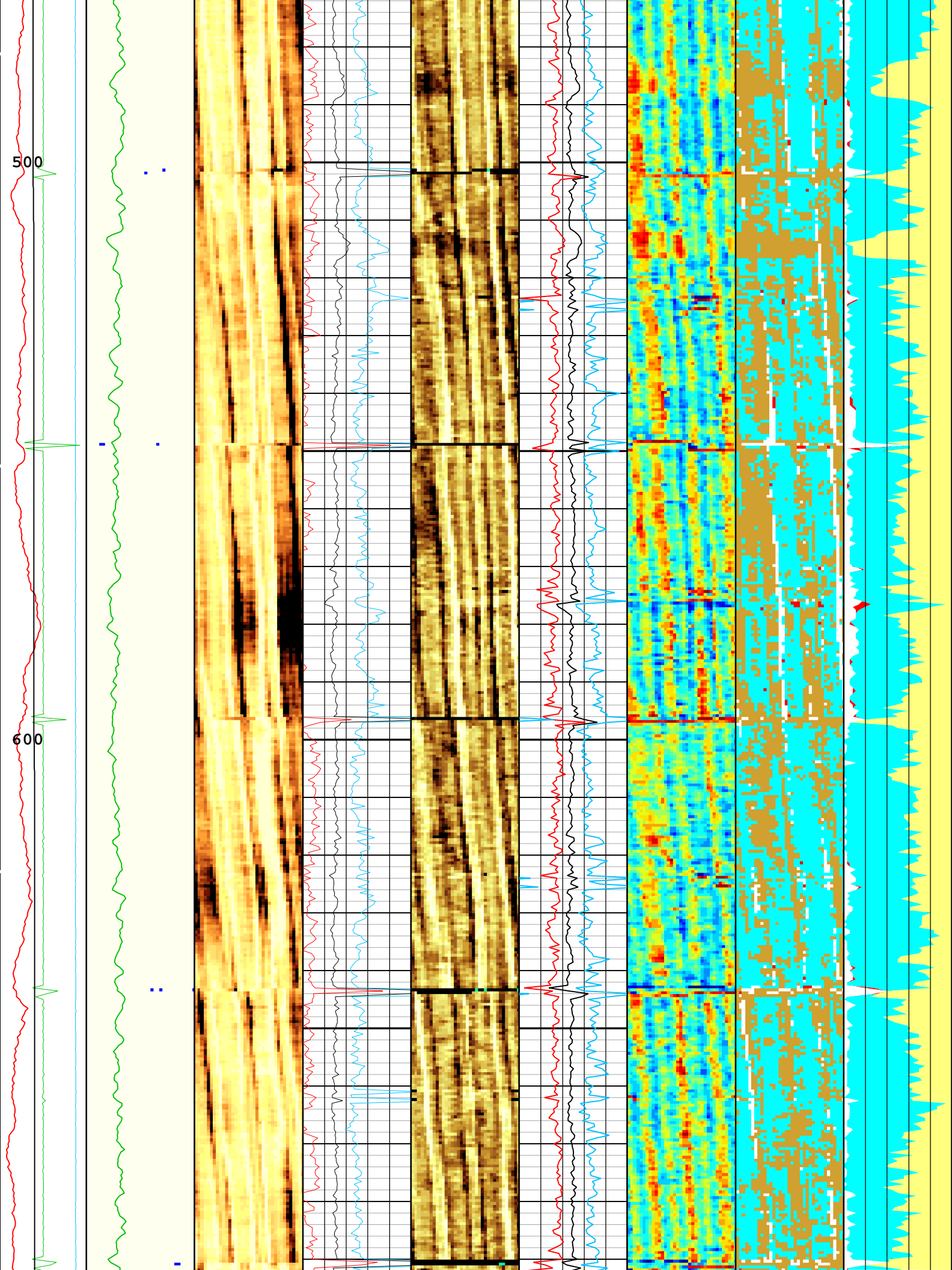
- 1 - UFLG 1 Value within [0.0 - 1.5] - :  UTIM Error
- 2 - UFLG 2 Value within [1.5 - 2.5] - :  Pulse Origin Not Detected
- 3 - UFLG 3 Value within [2.5 - 3.5] - :  WINLEN Error
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :  Casing Thickness Error
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5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

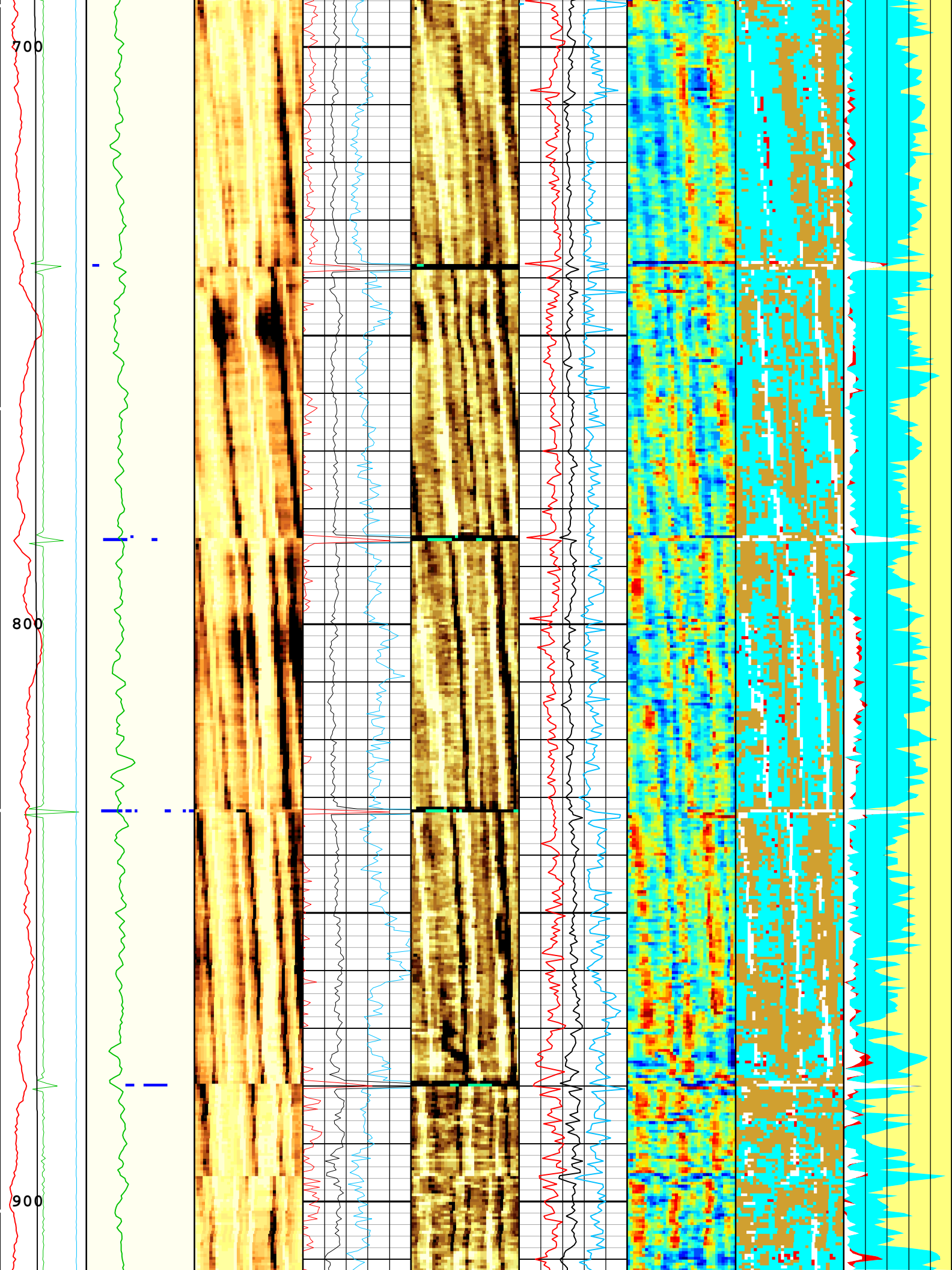
TIME_1900 - Time Marked every 60.00 (s)

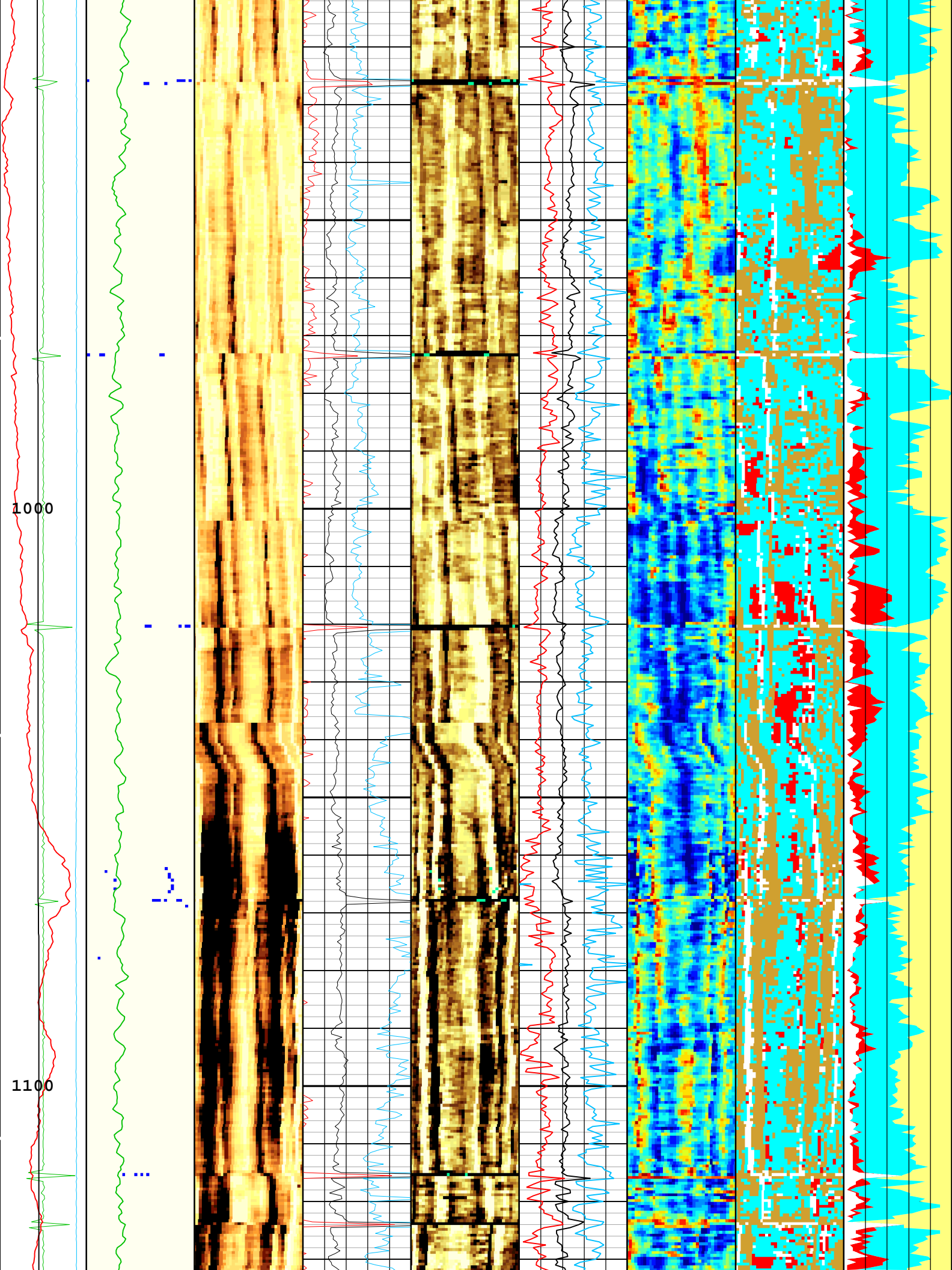


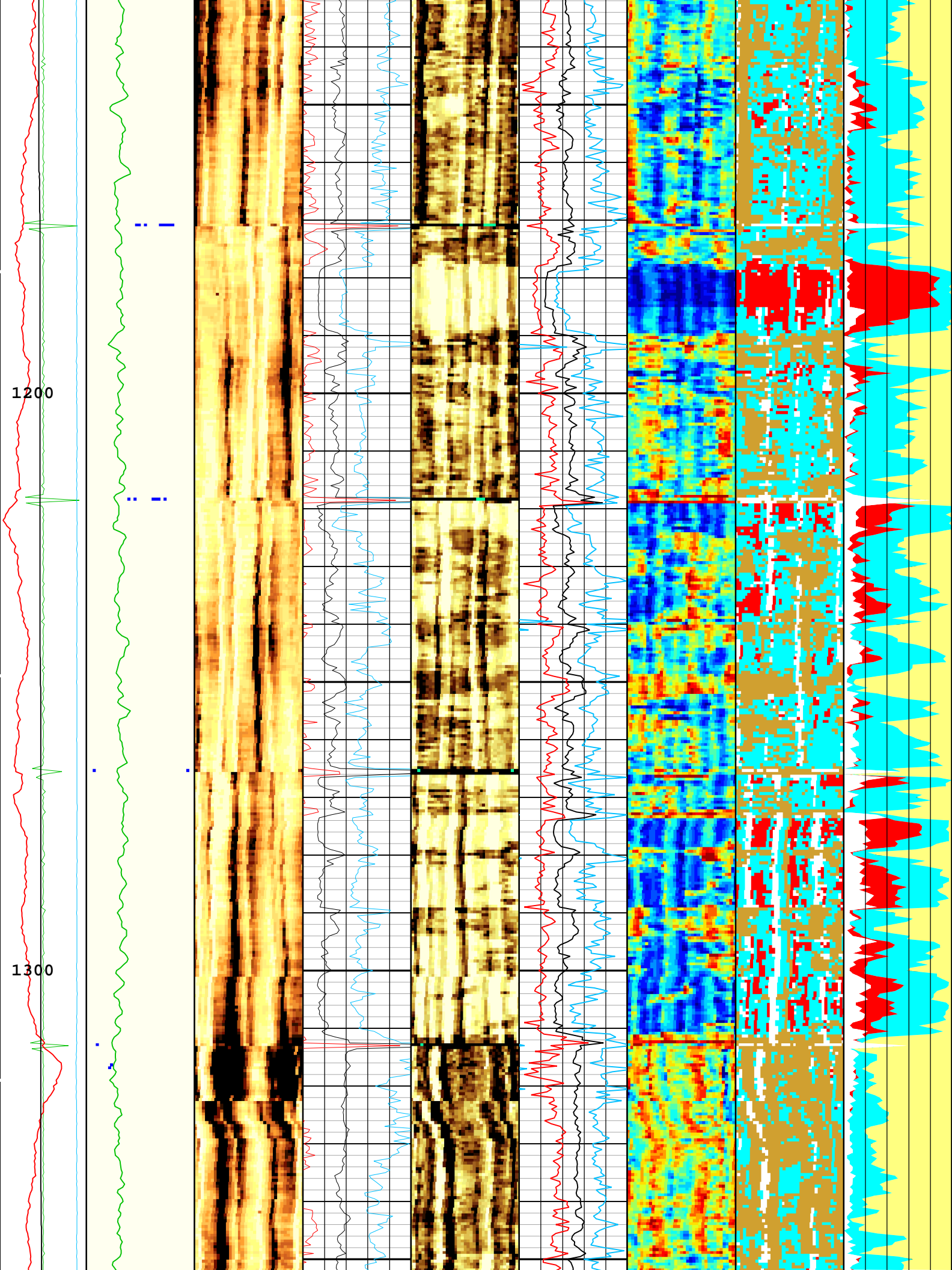


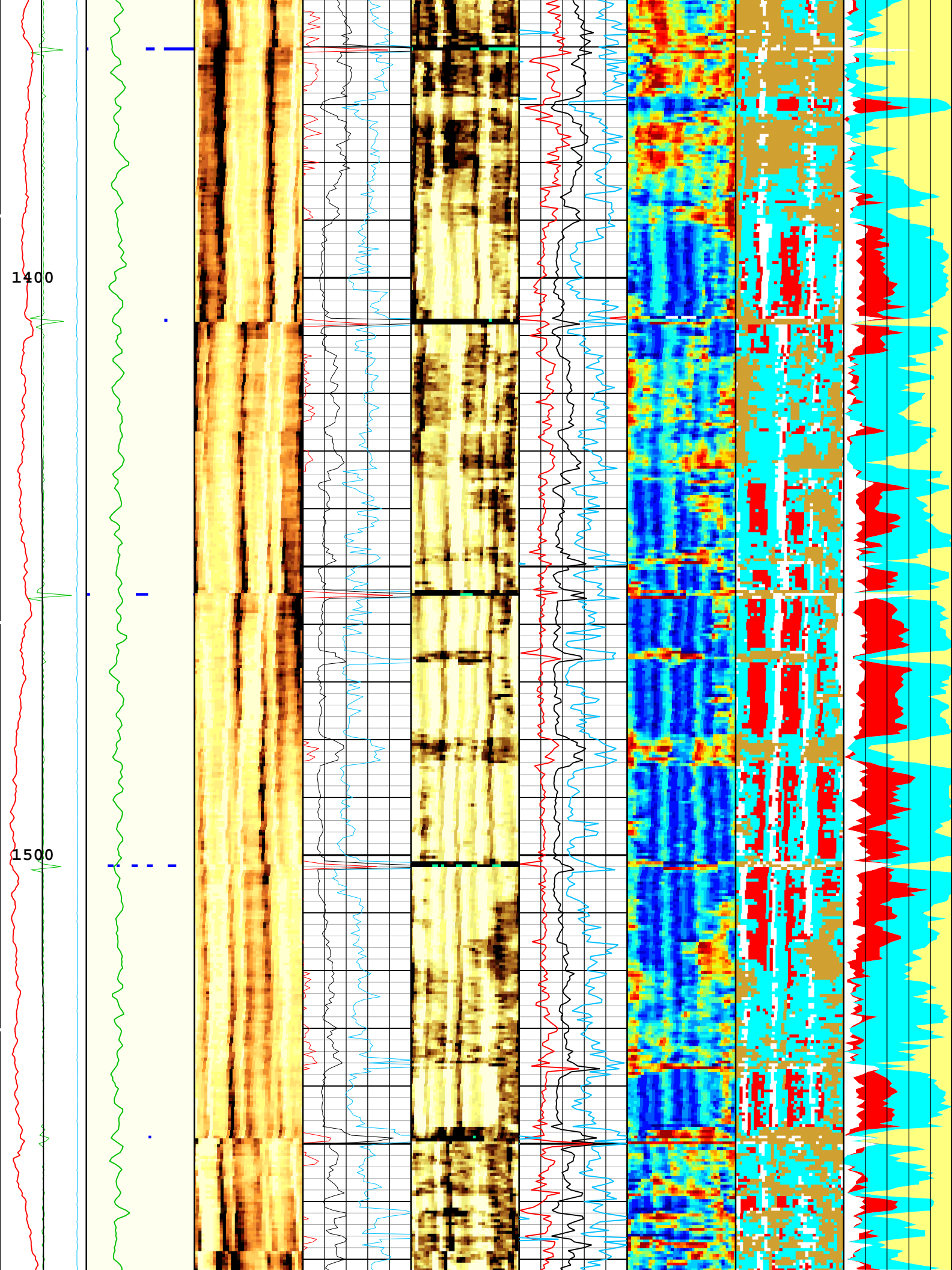


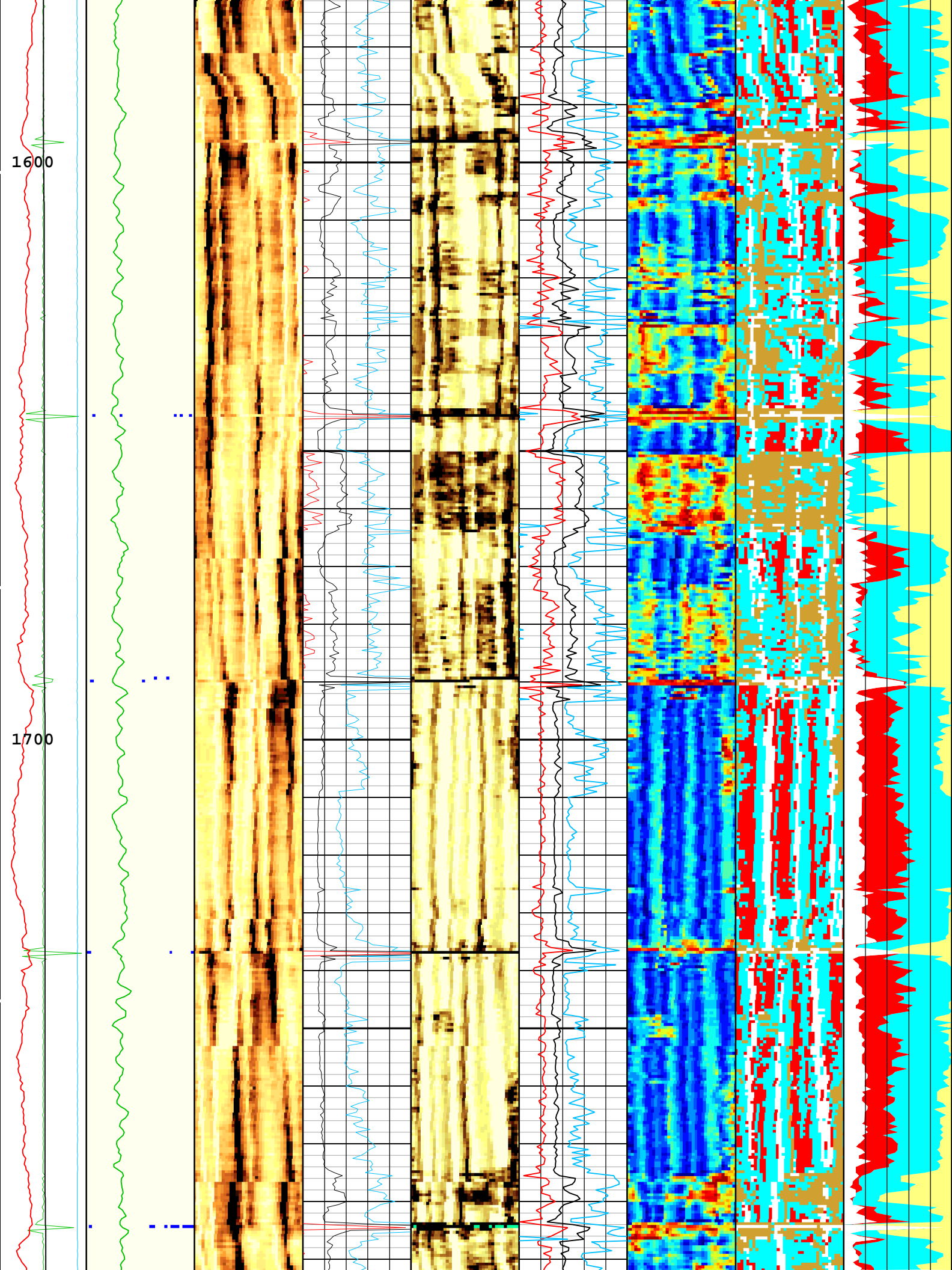


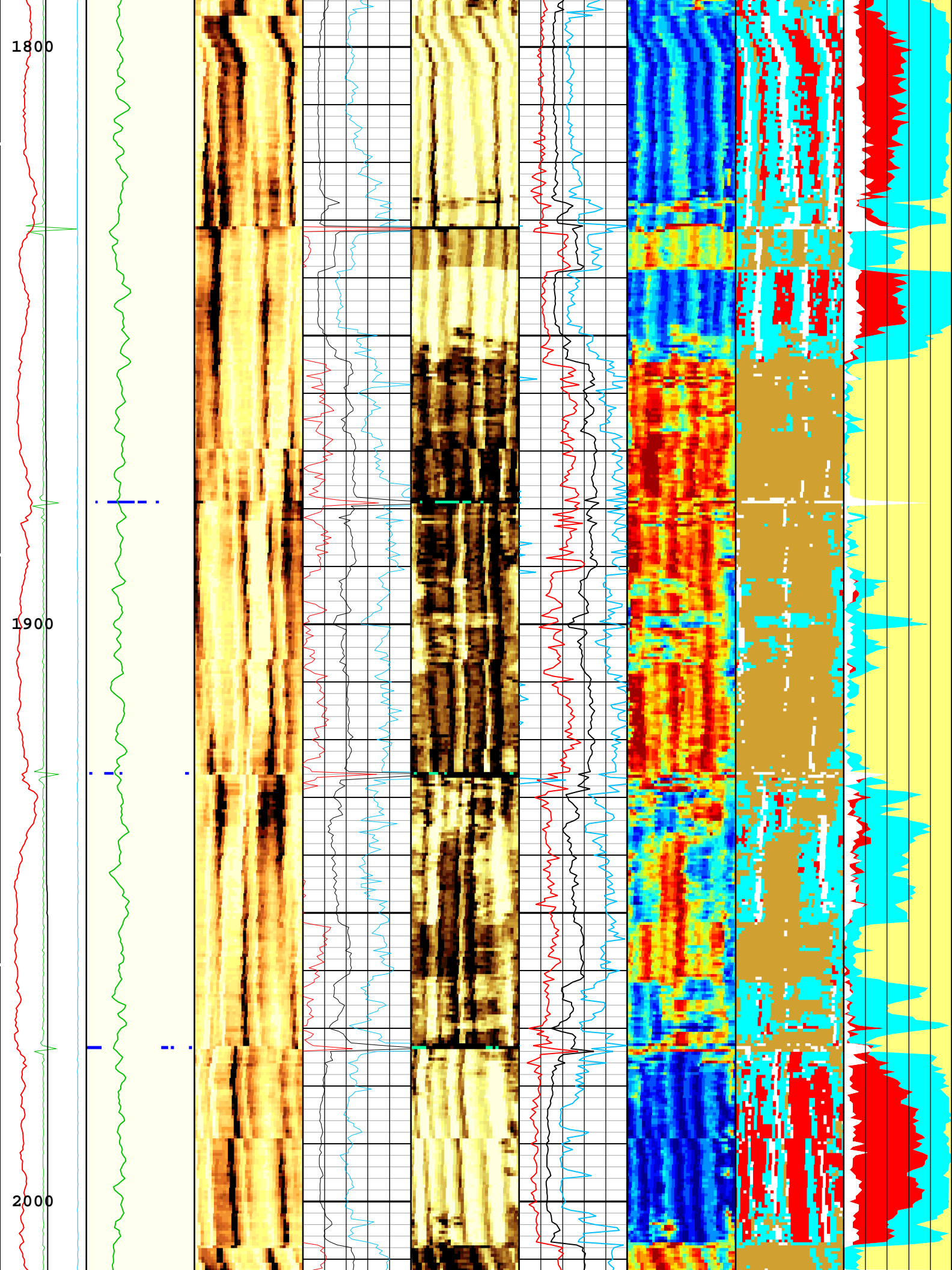


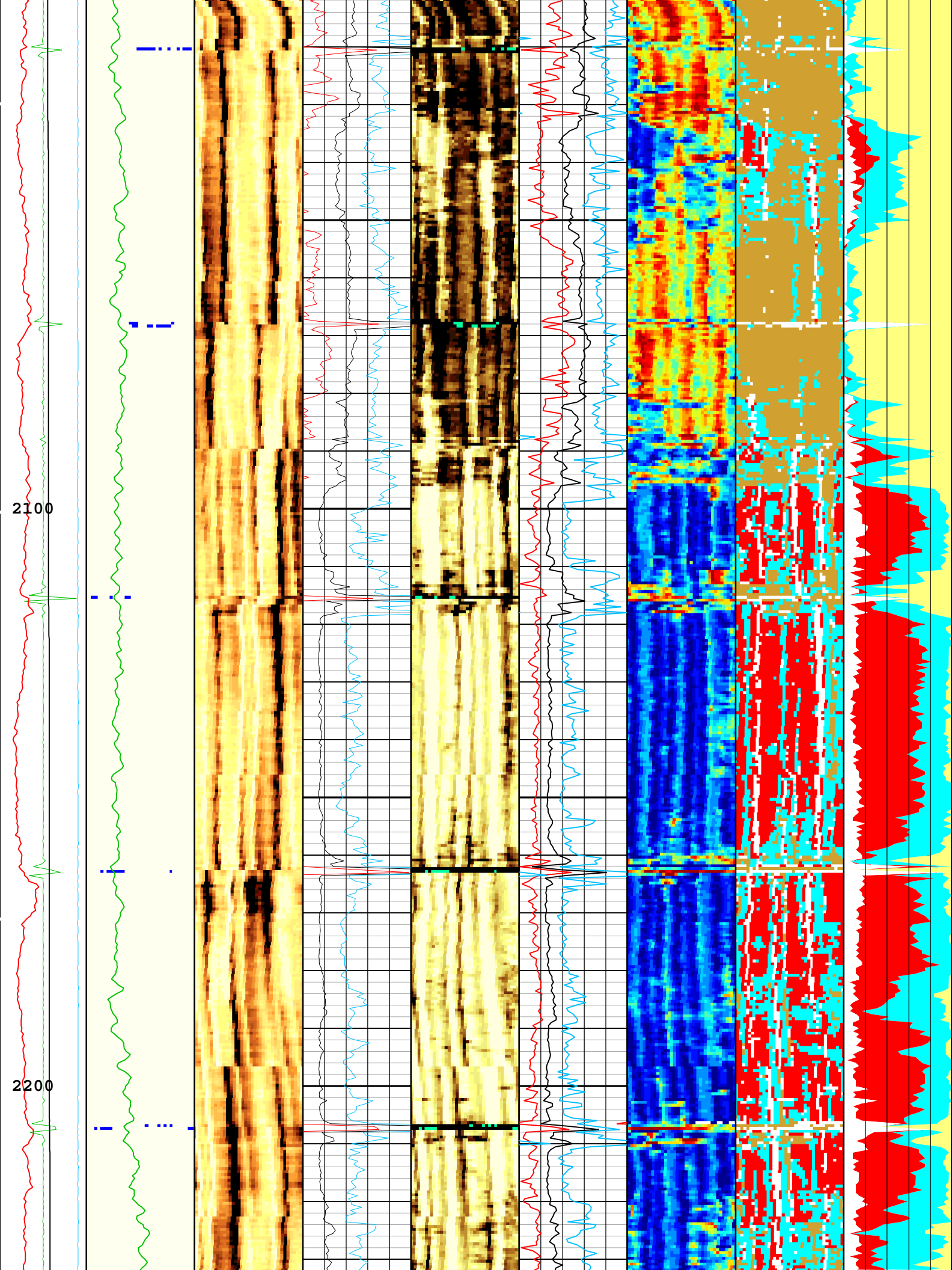


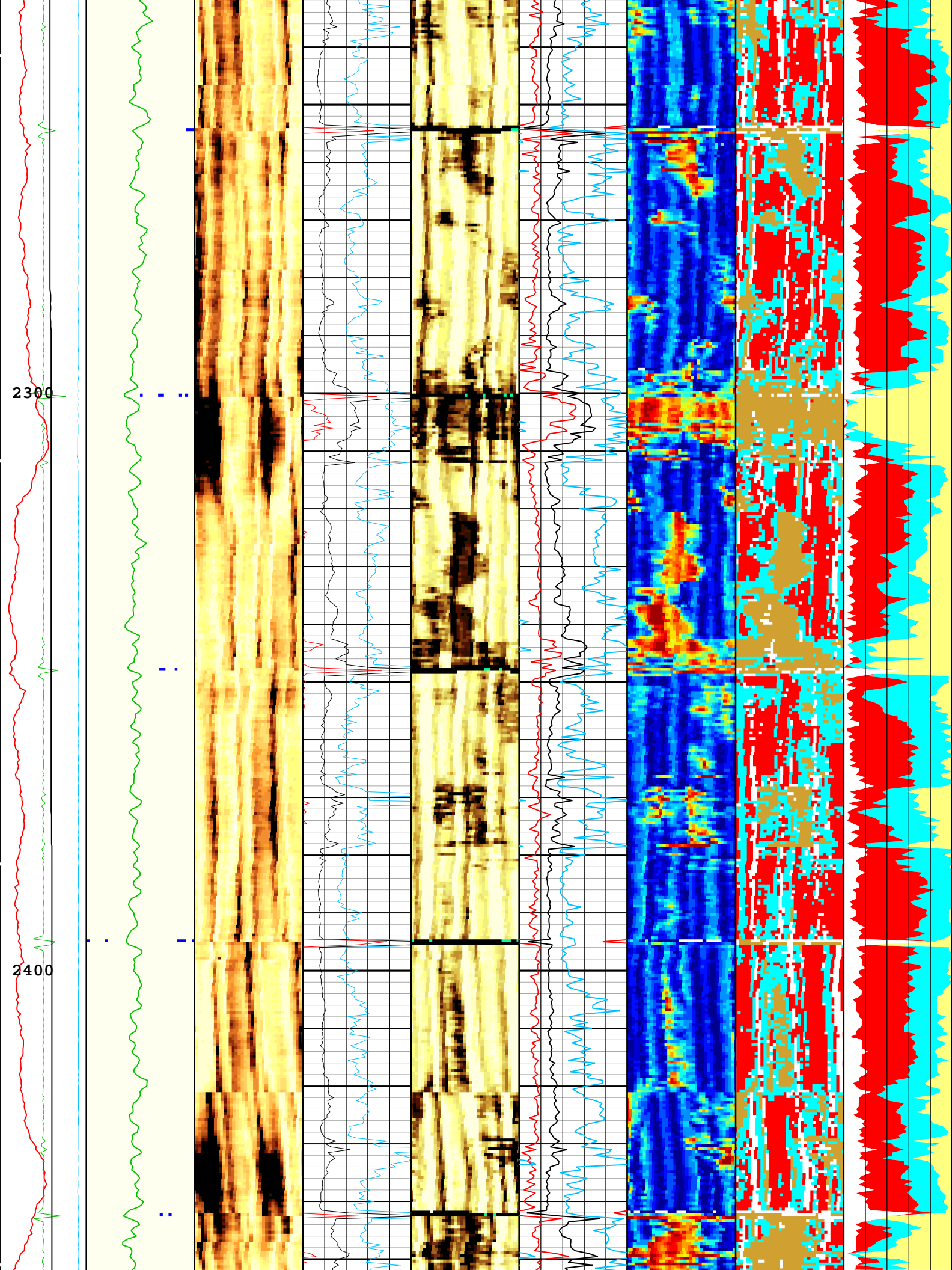


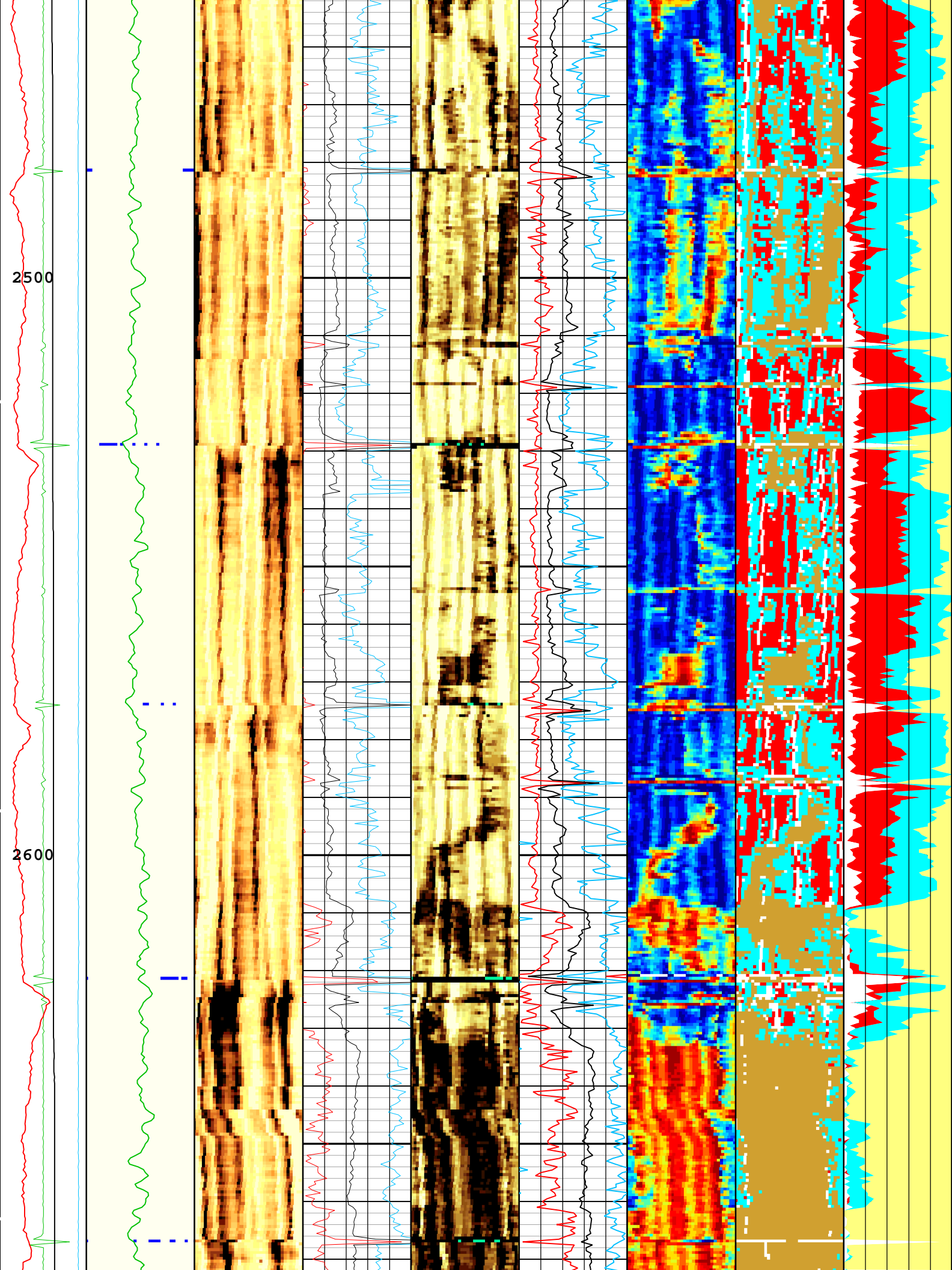


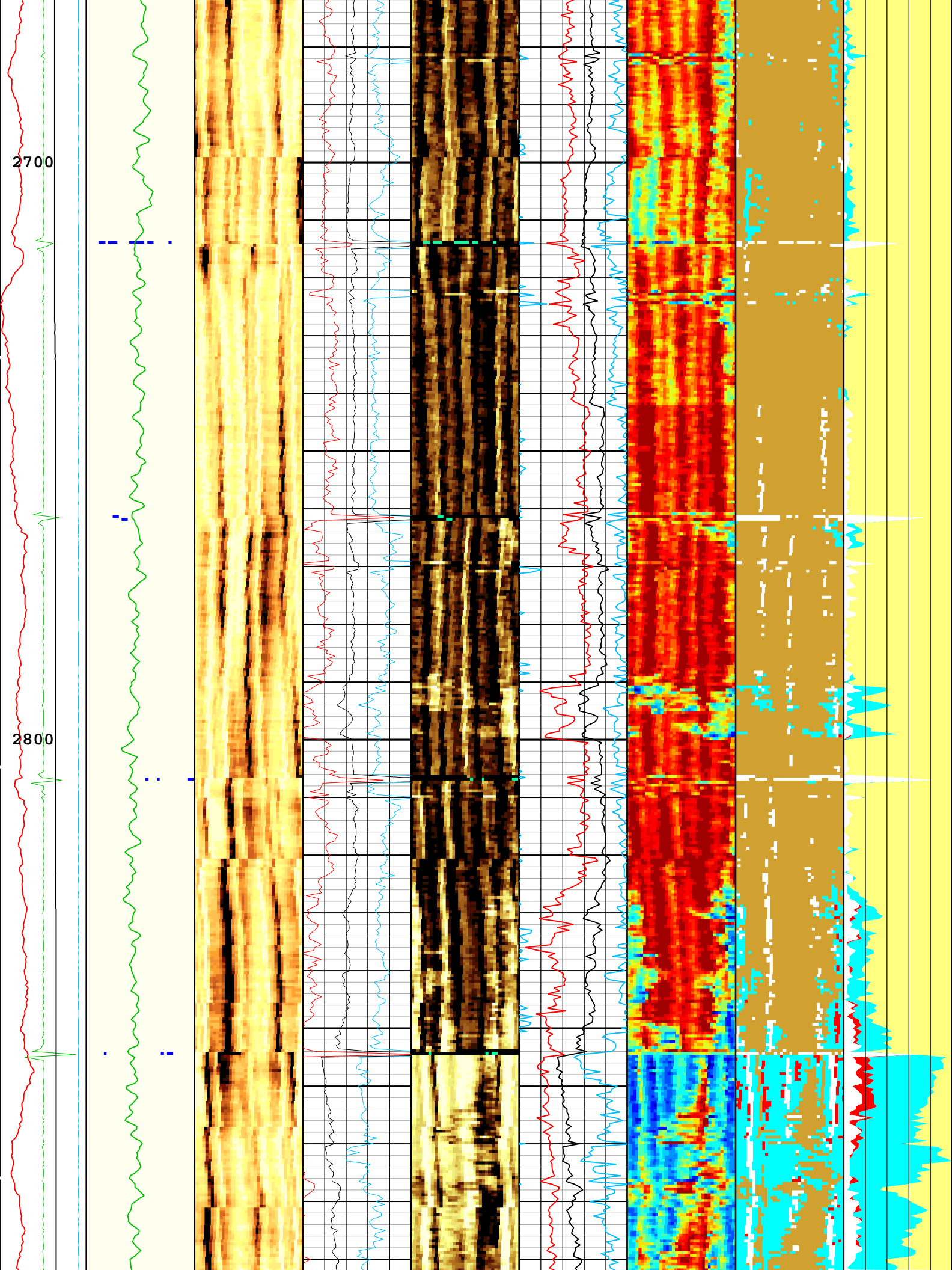


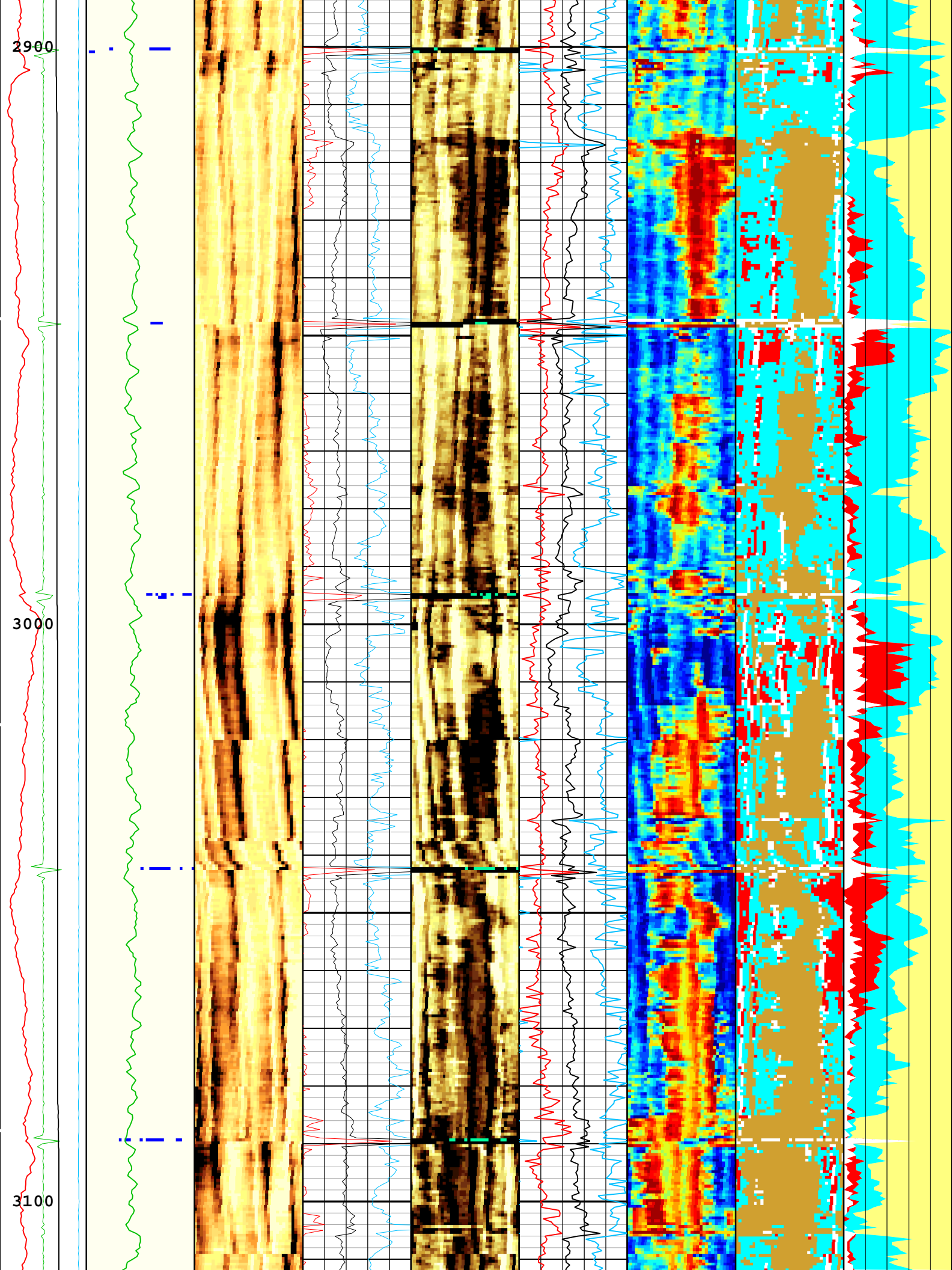


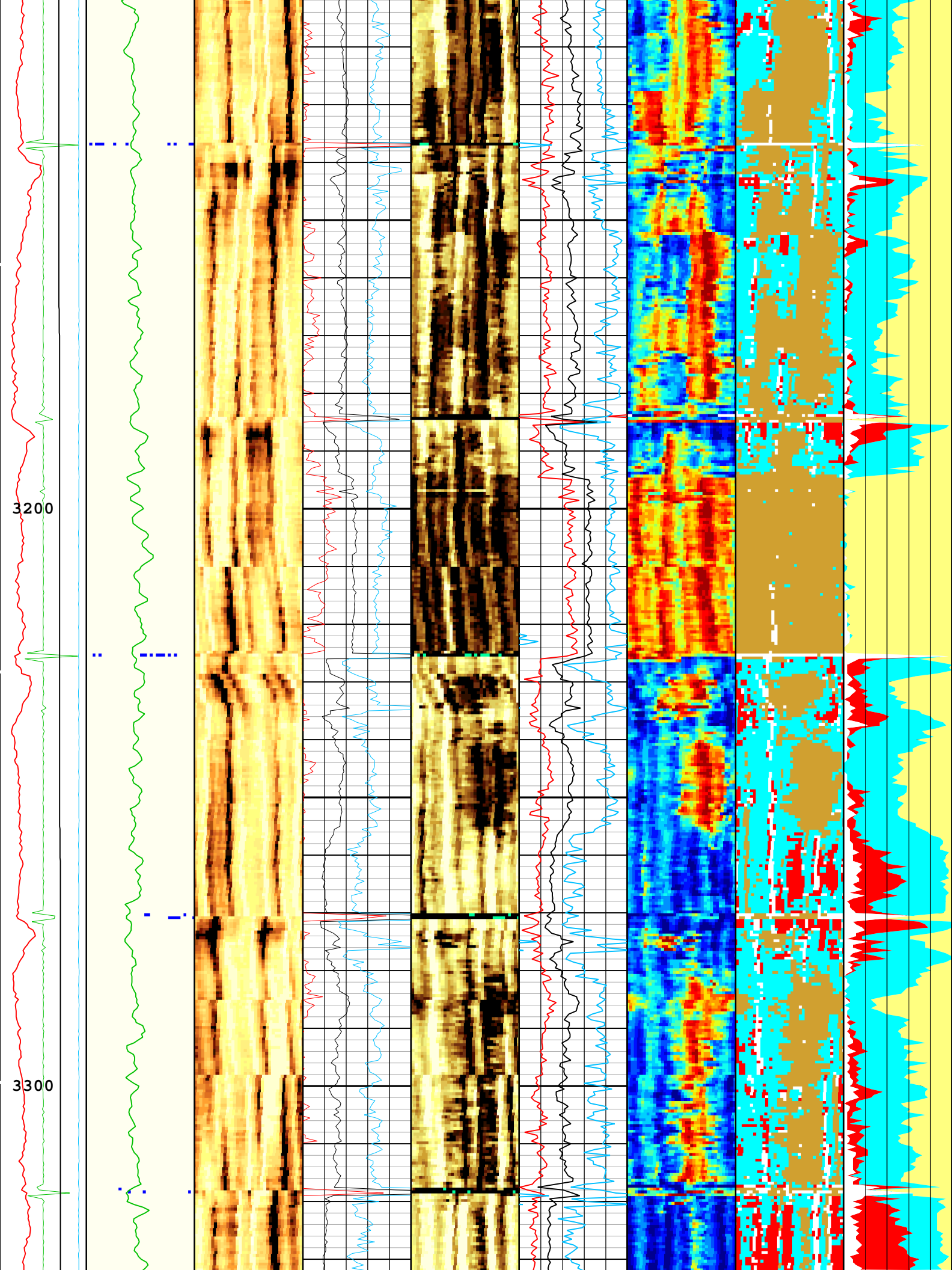


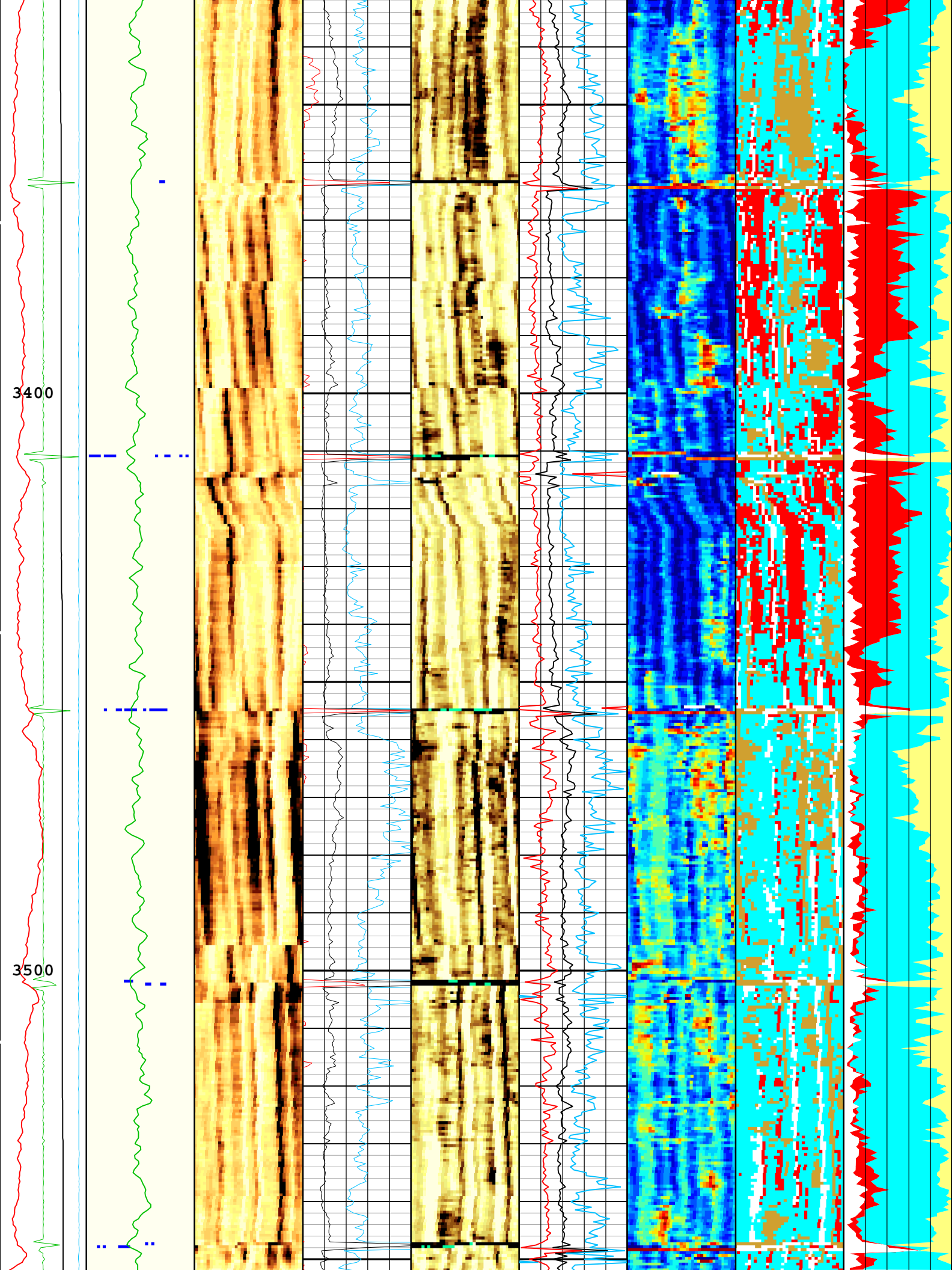


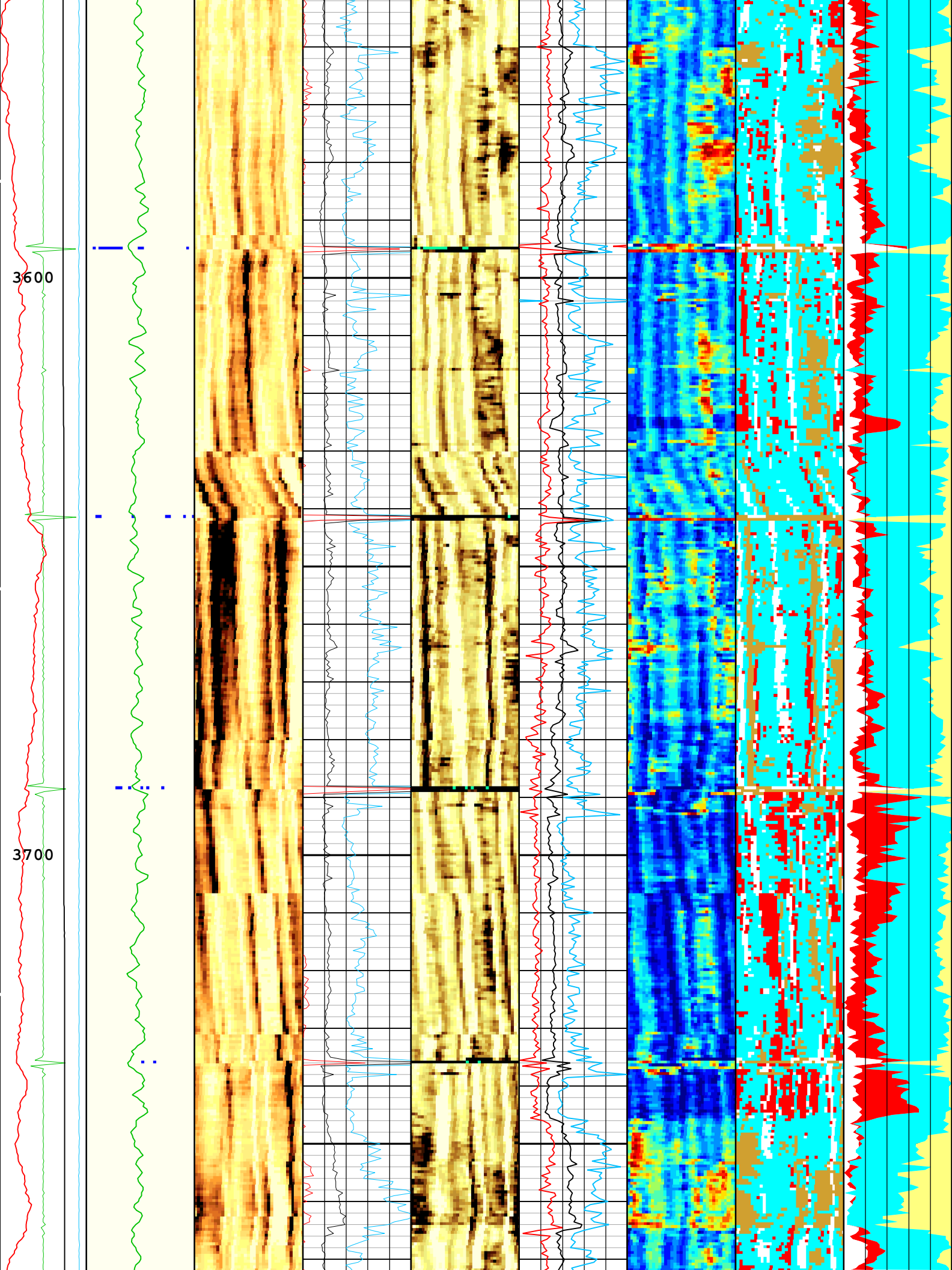


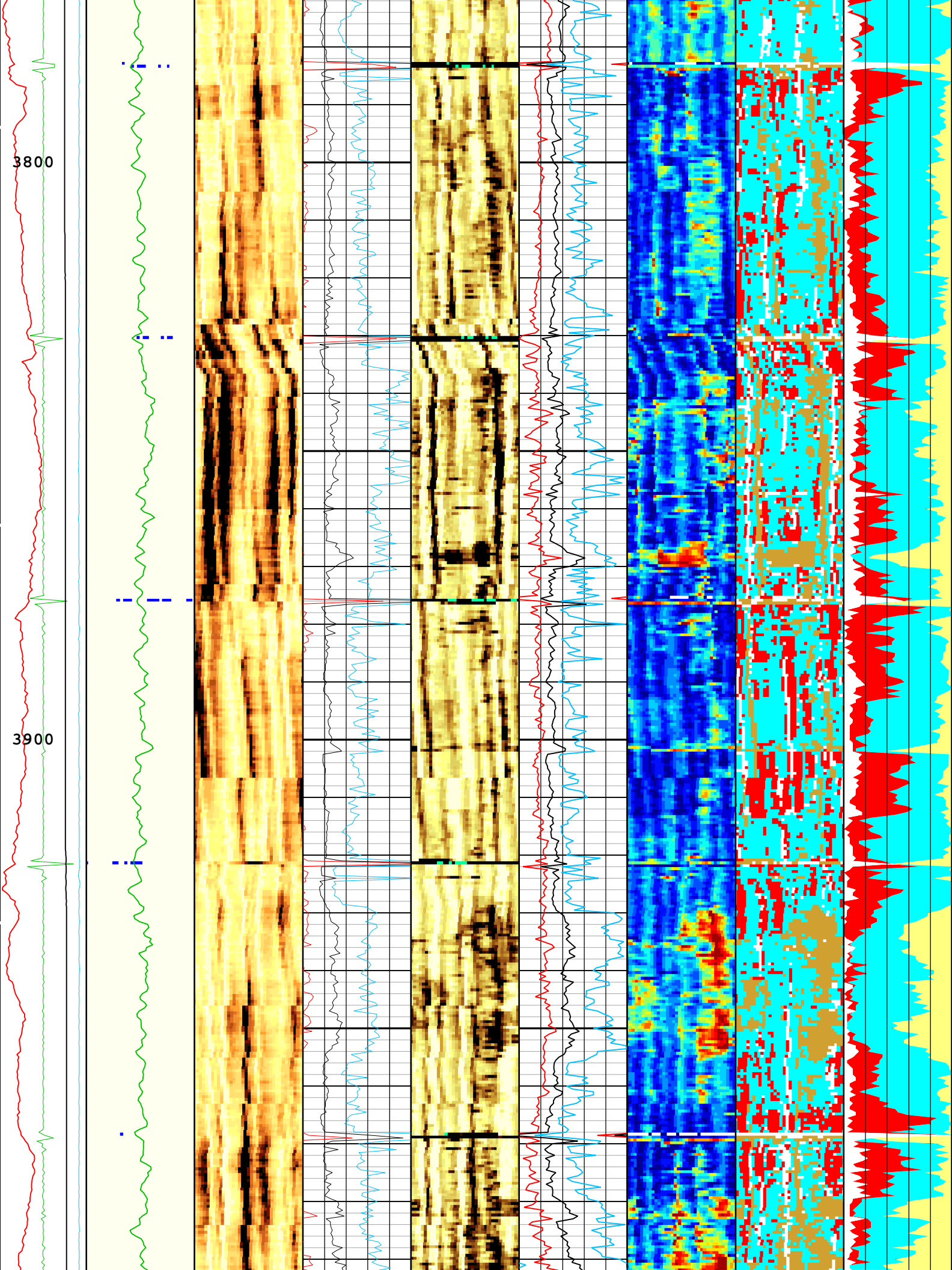


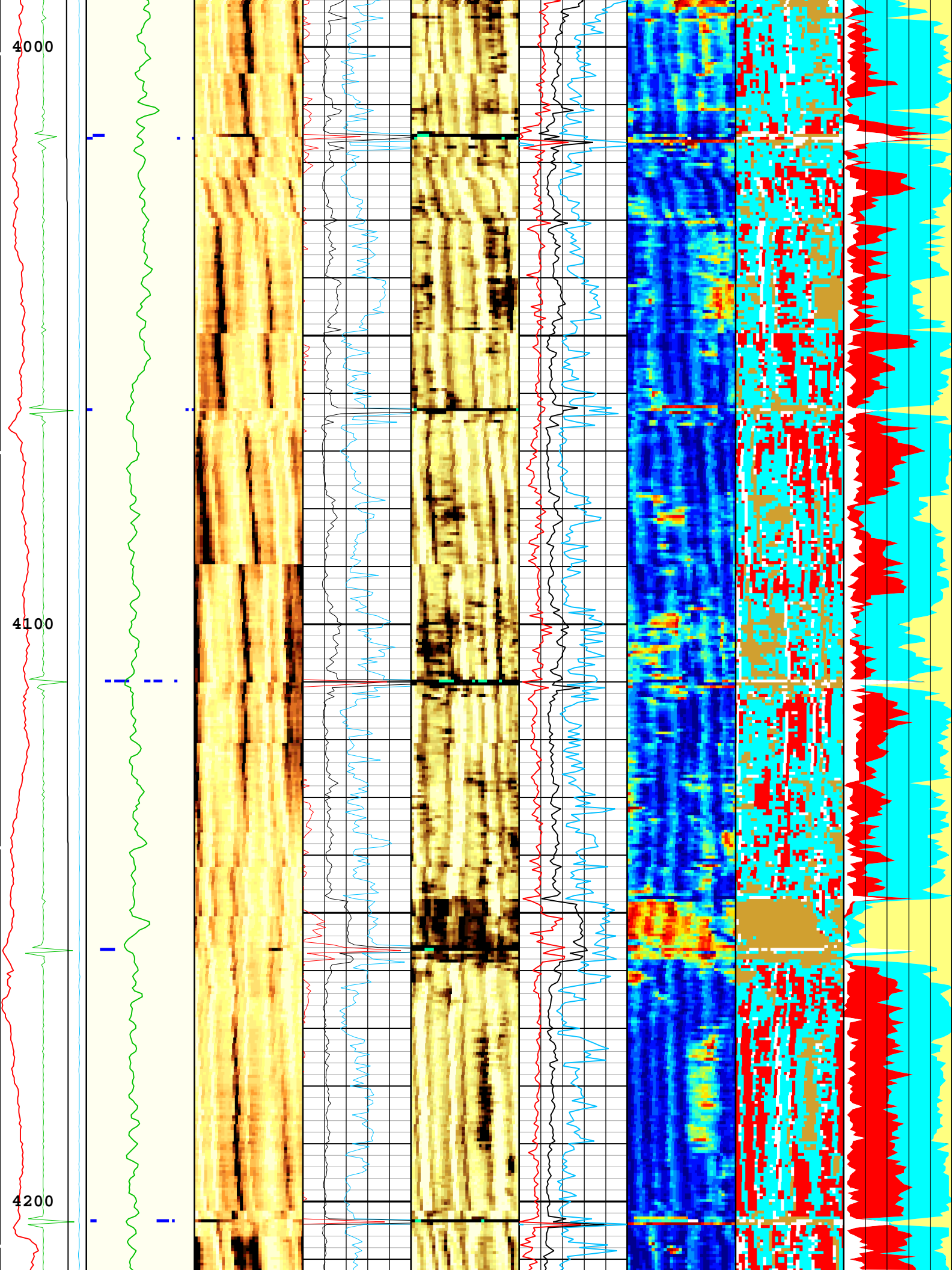


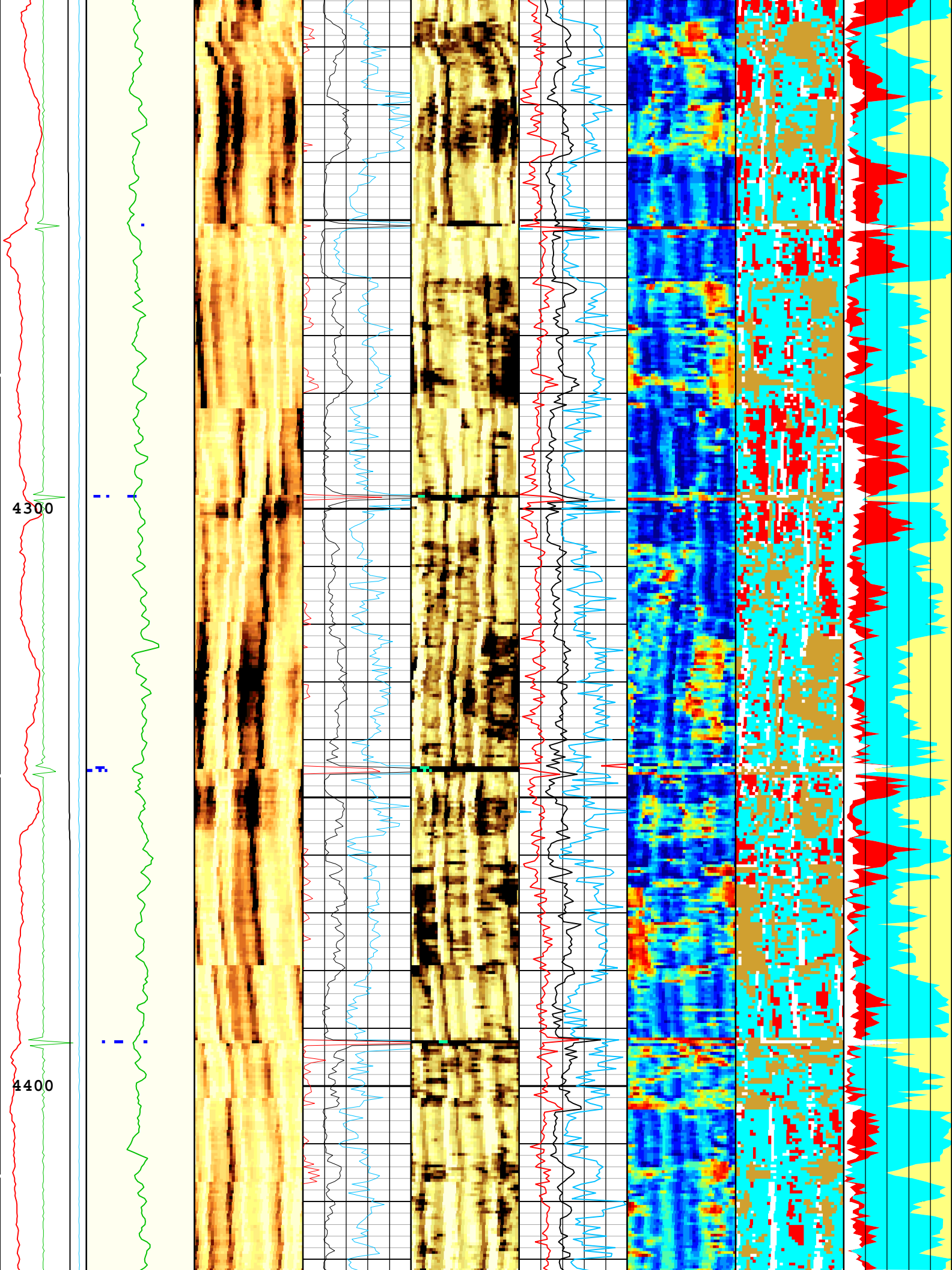


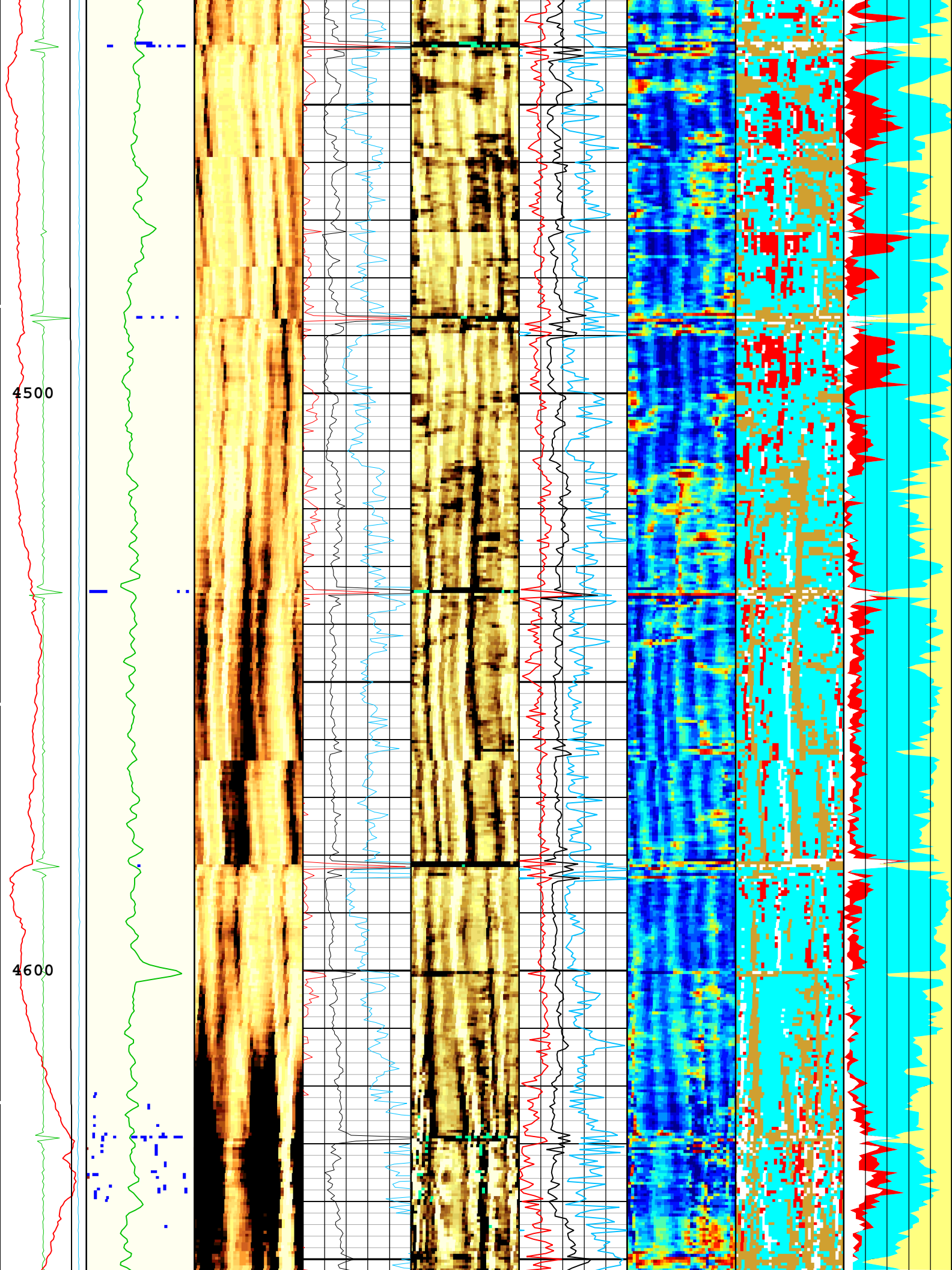


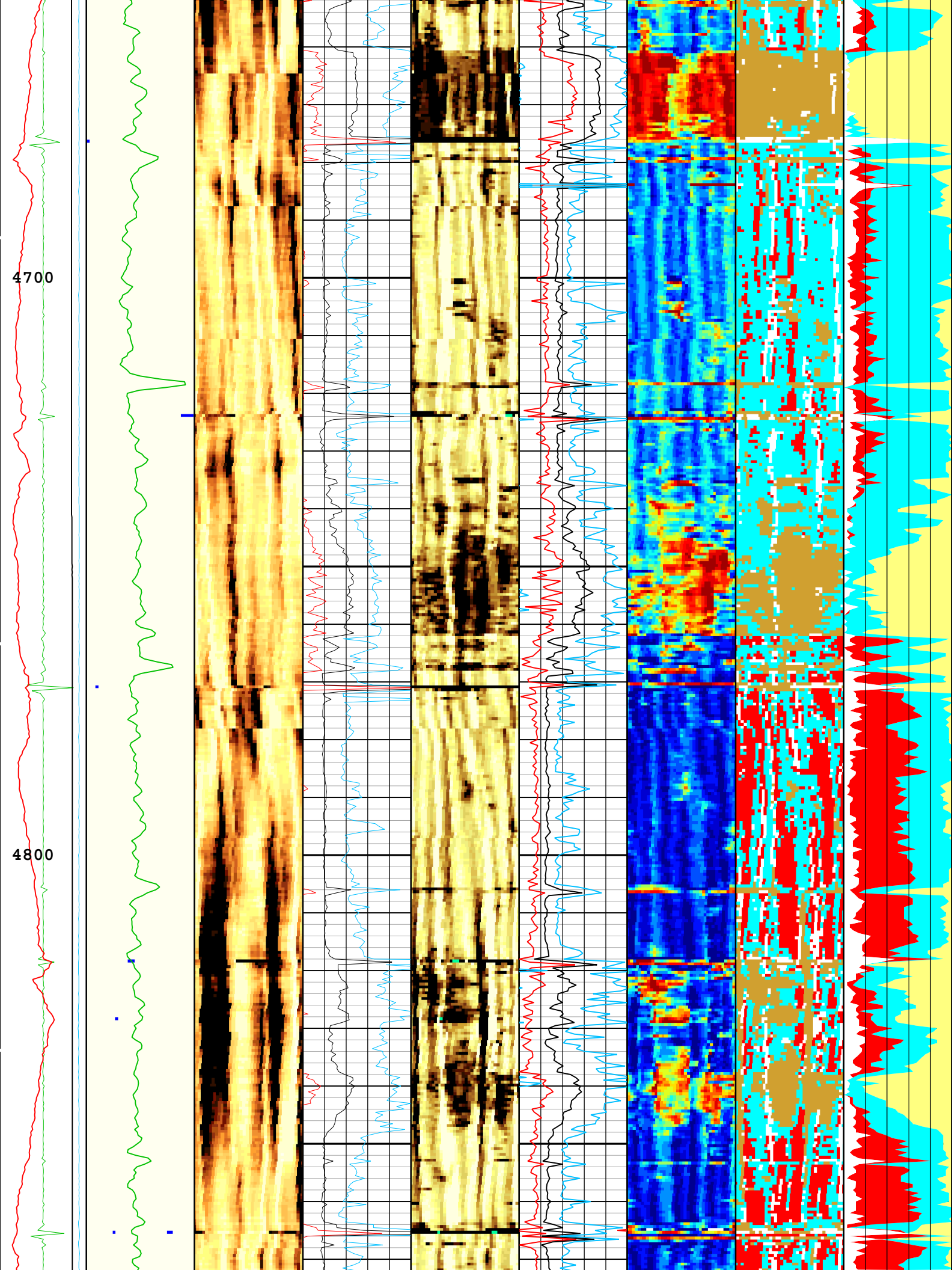


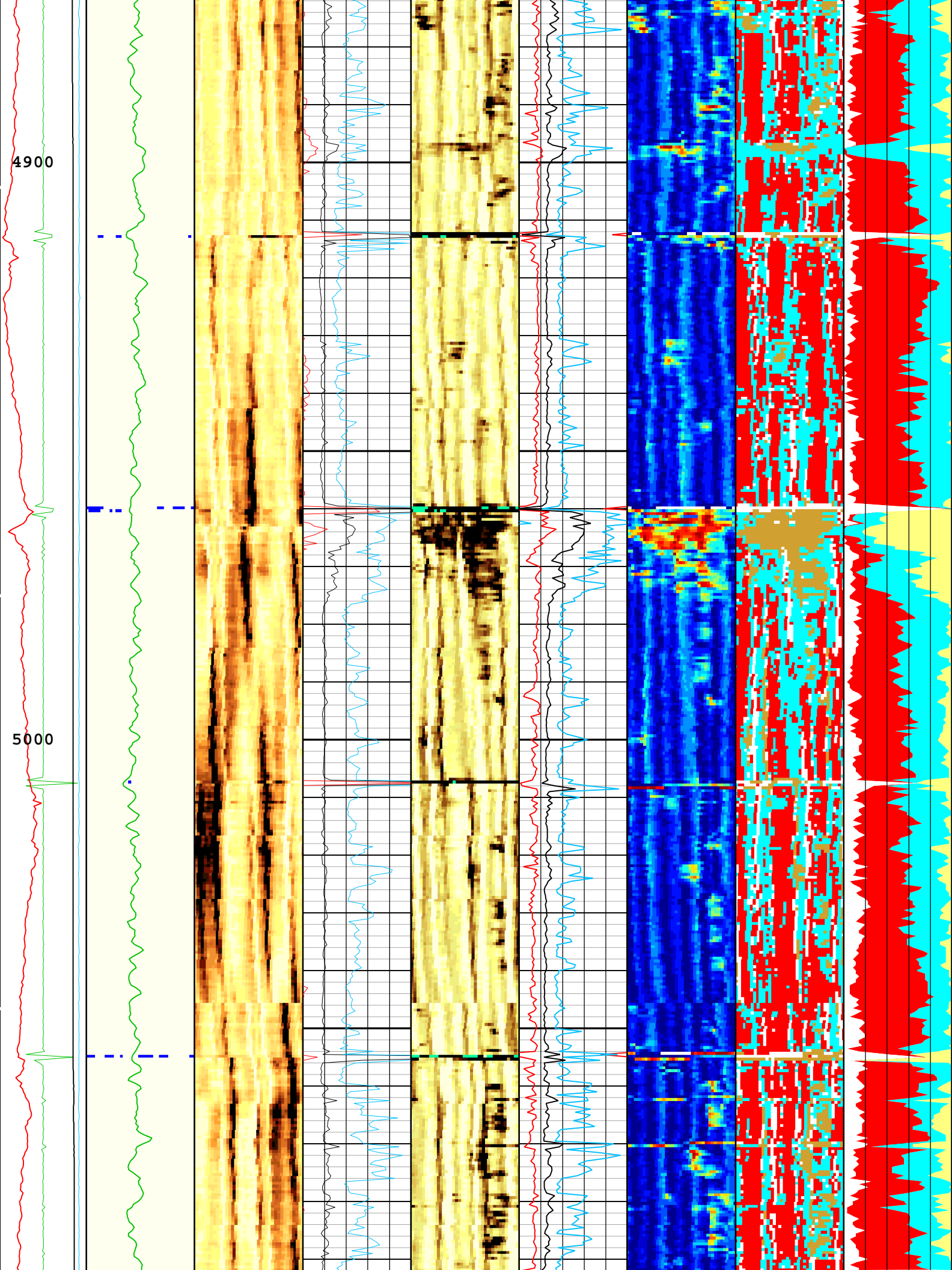


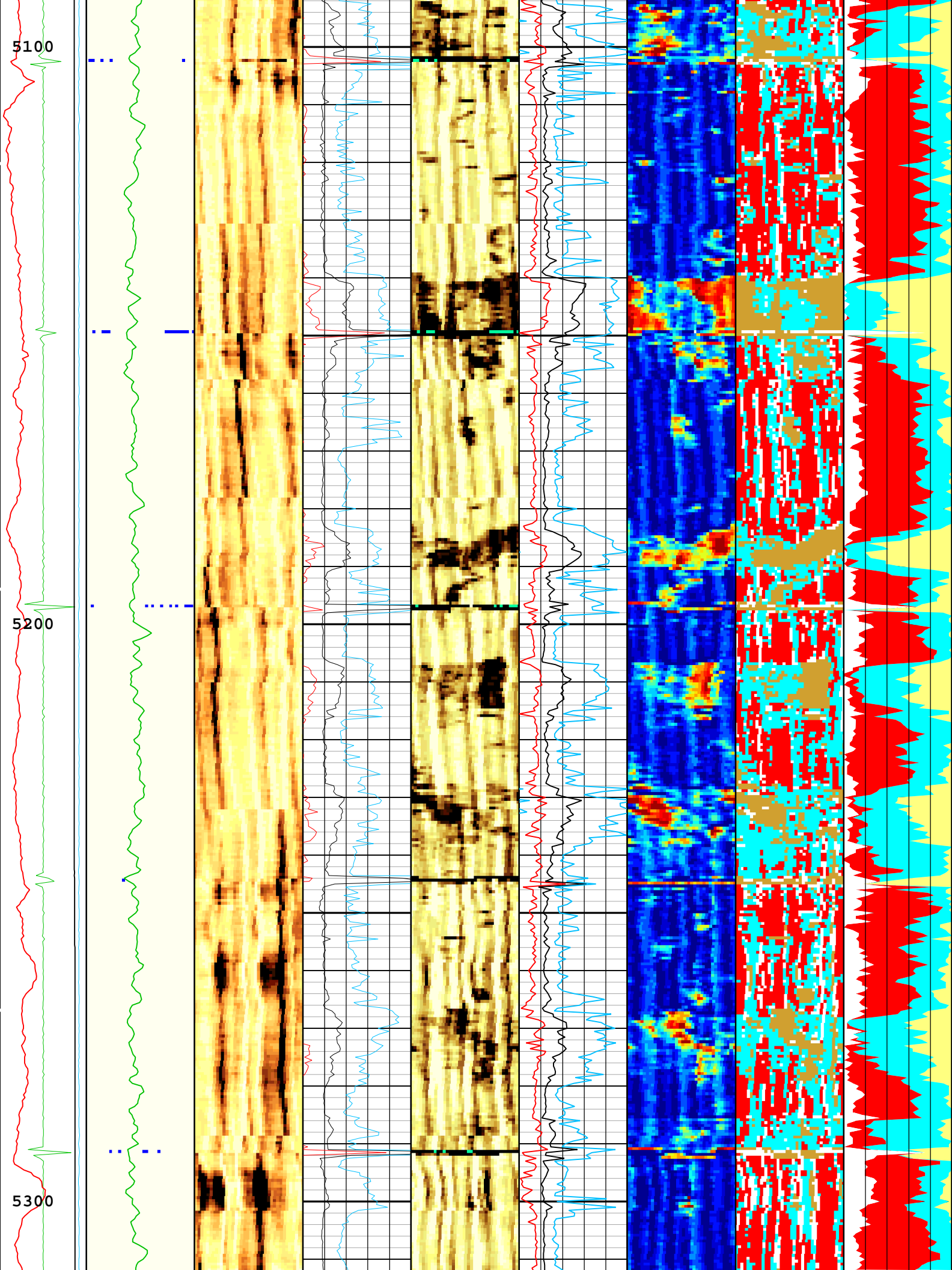


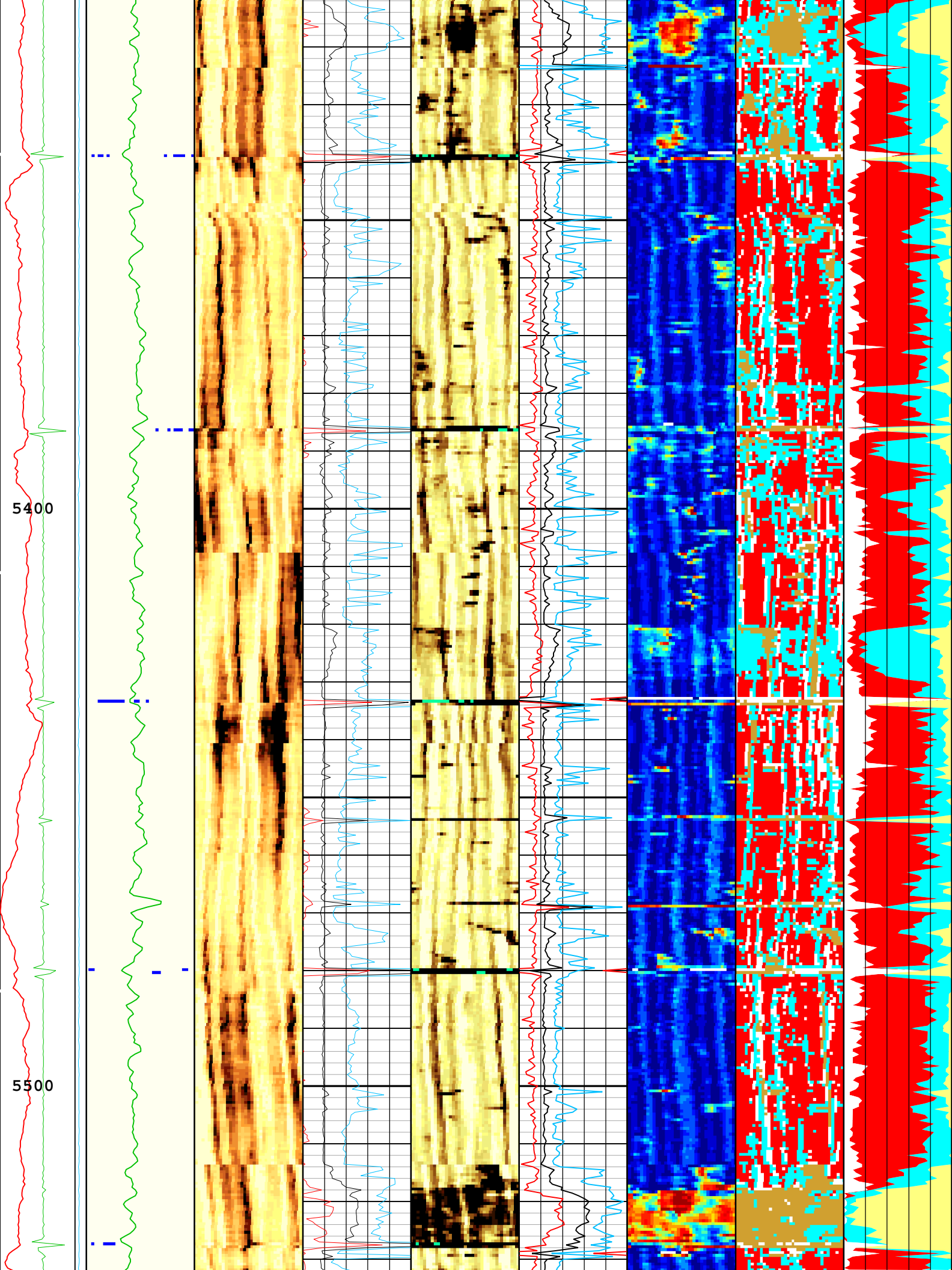


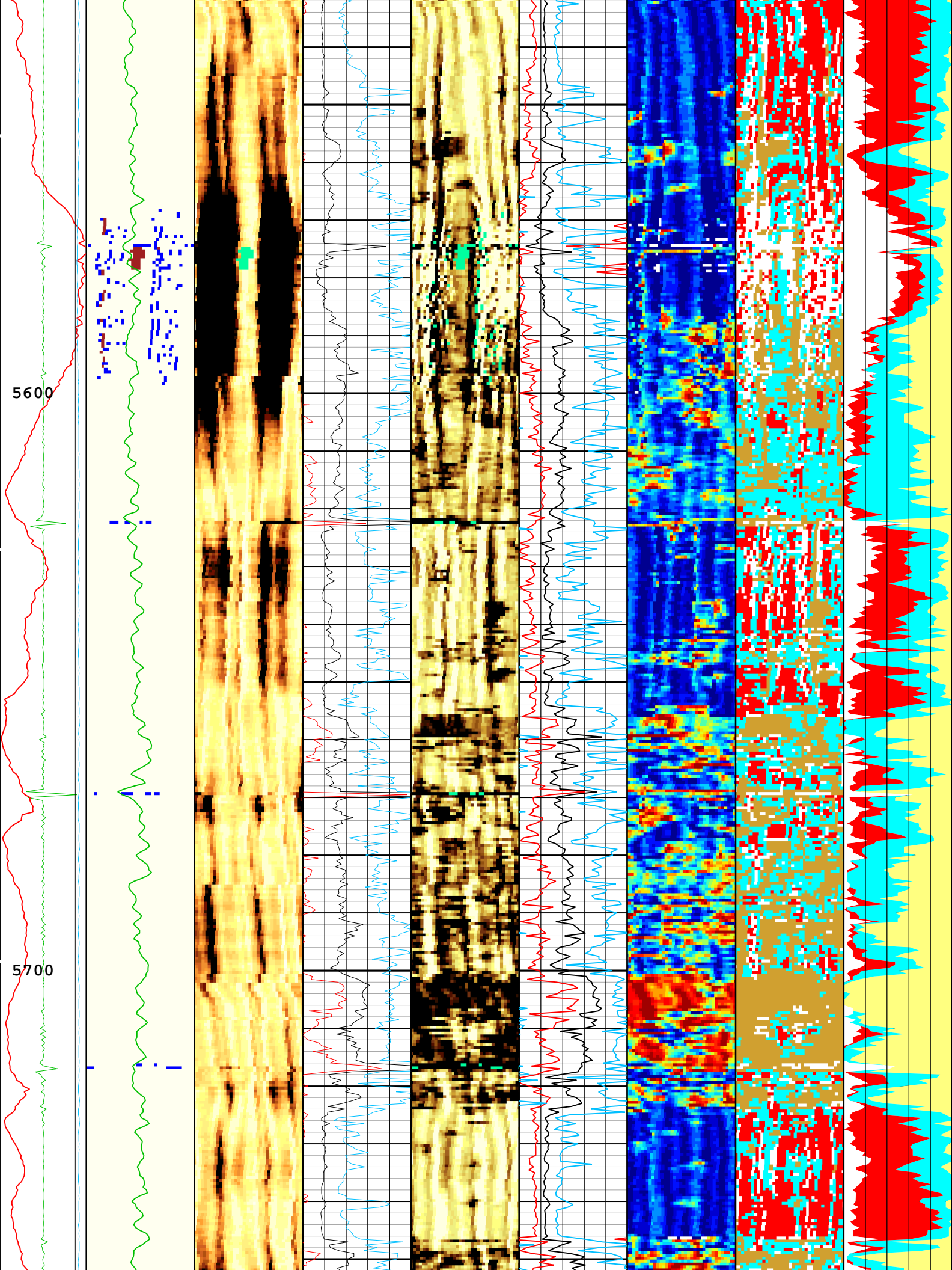


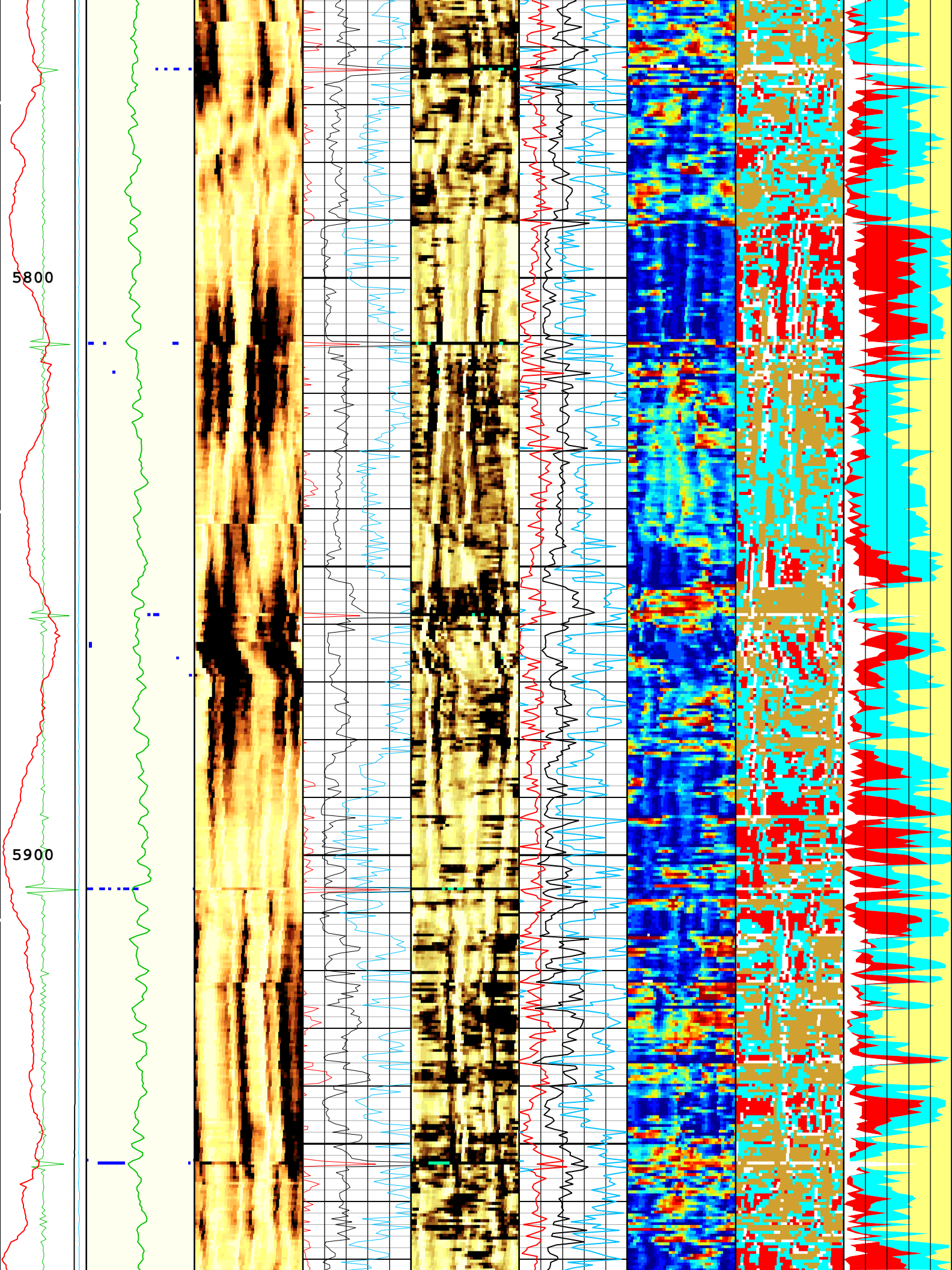


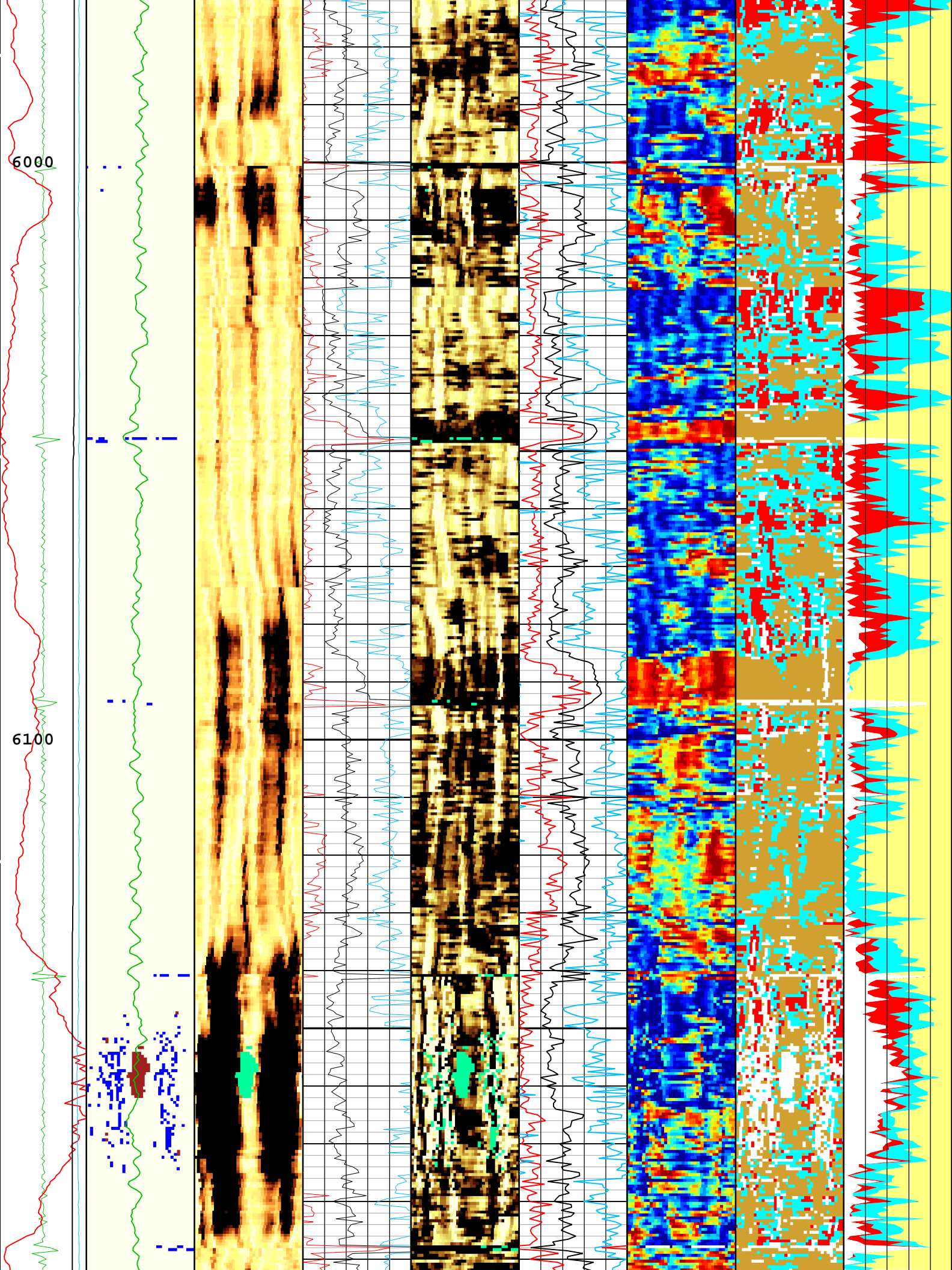


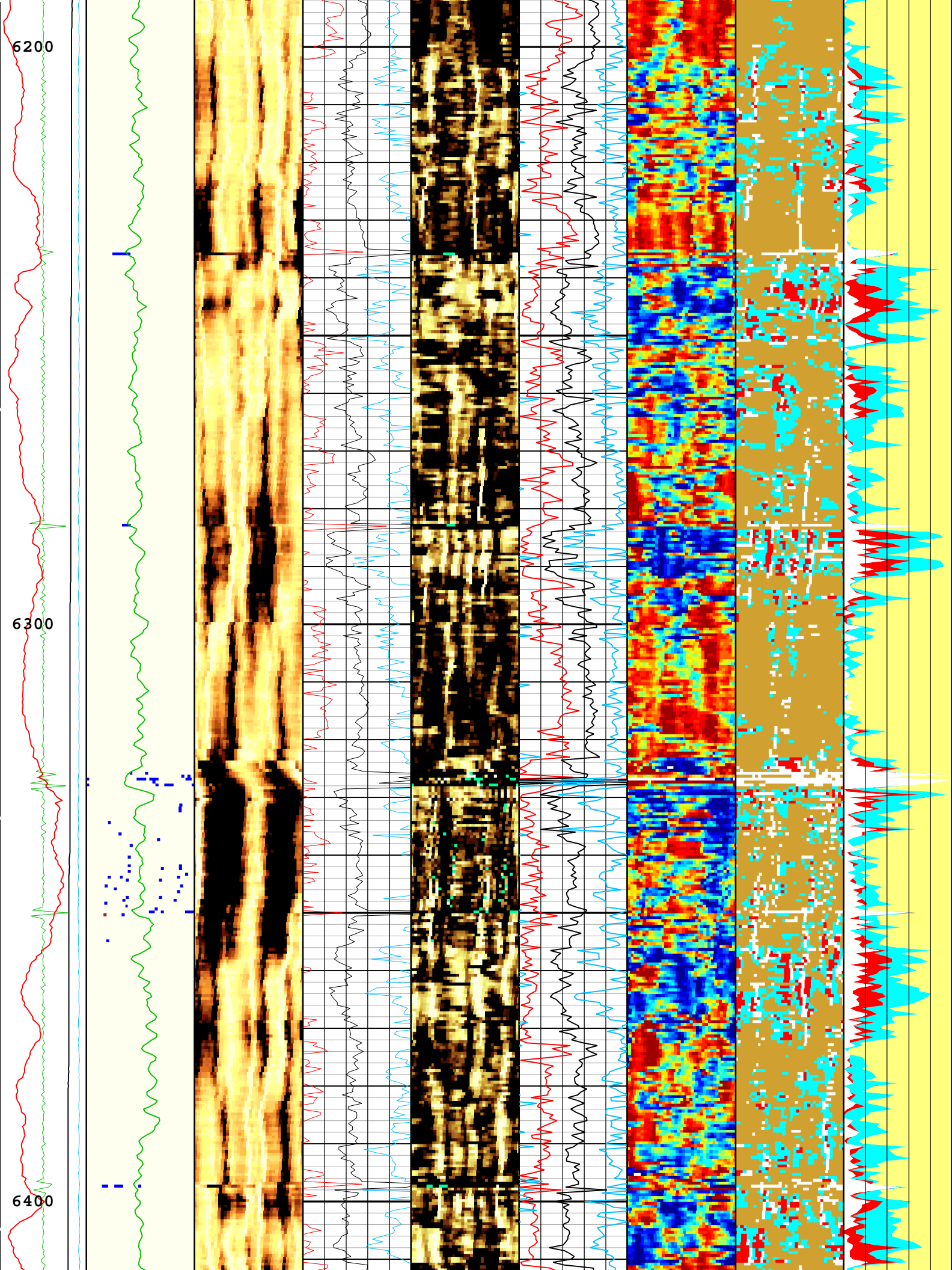


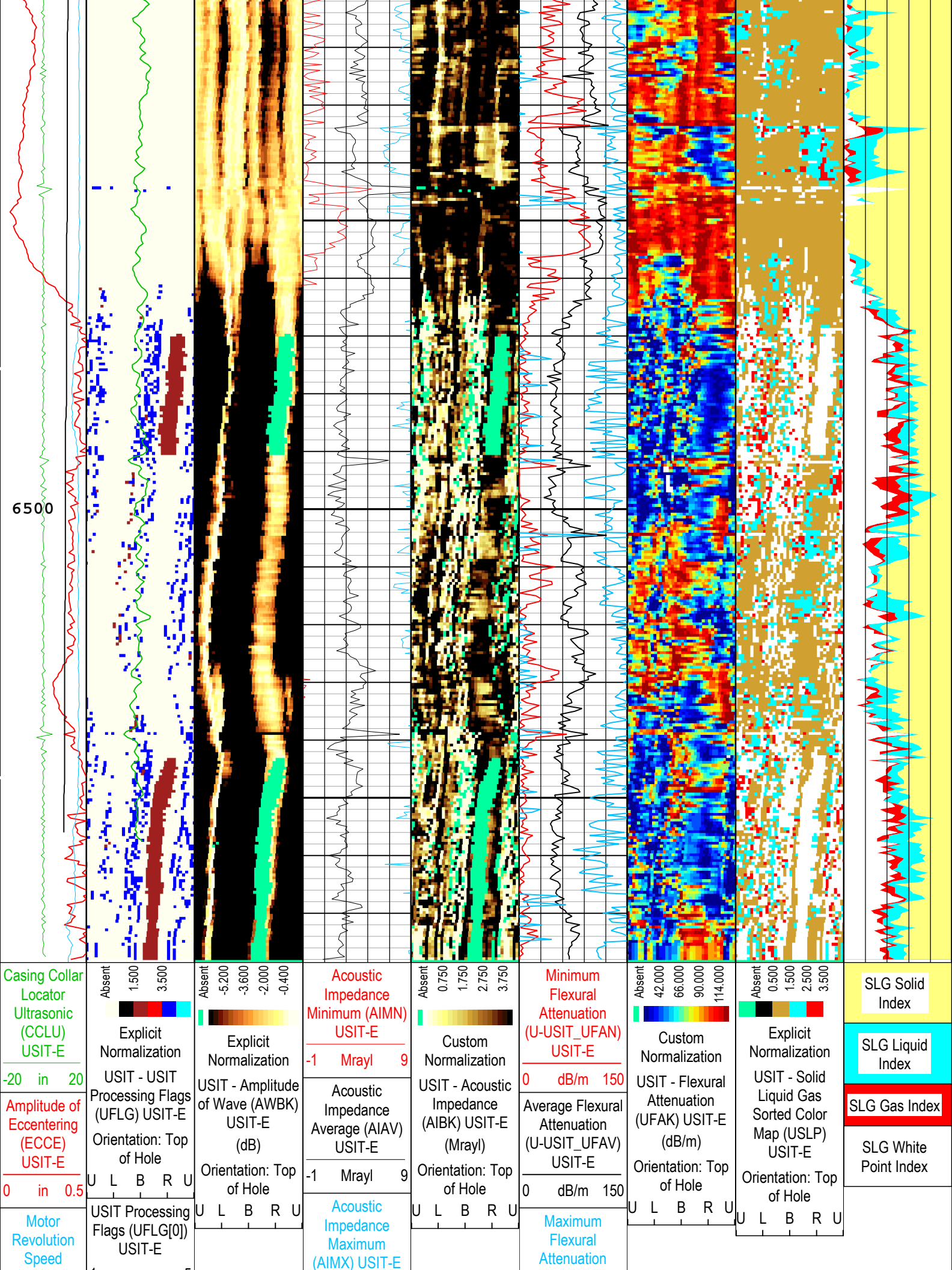

















(RSAV) USIT-E	1	5
6 c/s 7.5	Gamma Ray (ECGR_EDTC) EDTC-B	
Cartridge Temperature (CTEM) EDTC-B	0	gAPI 150
20 degF 220		

TIME_1900 - Time Marked every 60.00 (s)

- | | | |
|---|---|---------------------------|
| 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: 21-Sep-2018 16:29:25

Channel Processing 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	14720	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	-11.5	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	Inversion 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	1.1	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.21	
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	1.63	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-10.51	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	1.77	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	56	2125
BS	8.5	2125	6578.5

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	177	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

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	80	20-Sep-2018 13:59:13	20-Sep-2018 14:05:05	6579.52	6185.01
EMXV	90	20-Sep-2018 14:05:05	20-Sep-2018 14:05:18	6185.01	6170.14
EMXV	100	20-Sep-2018 14:05:18	20-Sep-2018 15:34:38	6170.14	55.74
U-USIT_UNWE	146	20-Sep-2018 13:59:13	20-Sep-2018 14:01:52	6579.52	6413.18
U-USIT_UNWE	143.73	20-Sep-2018 14:01:52	20-Sep-2018 14:01:57	6413.18	6408.37
U-USIT_UNWE	140.1	20-Sep-2018 14:01:57	20-Sep-2018 15:34:38	6408.37	55.74
WINB	31.43	20-Sep-2018 13:59:13	20-Sep-2018 14:17:11	6579.52	5325.01
WINB	30.52	20-Sep-2018 14:17:11	20-Sep-2018 15:34:38	5325.01	55.74
WINE	69.92	20-Sep-2018 13:59:13	20-Sep-2018 14:00:34	6579.52	6505.69
WINE	72.01	20-Sep-2018 14:00:34	20-Sep-2018 14:26:06	6505.69	4685.06
WINE	69.92	20-Sep-2018 14:26:06	20-Sep-2018 15:34:38	4685.06	55.74

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[7]:Up	Up	55.74 ft	6579.53 ft	20-Sep-2018 1:59:13 PM	20-Sep-2018 3:34:38 PM	ON	7.12 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources Operating LLC Well:Davis 1H-9H-G266

ONE: Log[7]:Up:S007

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: 21-Sep-2018 16:29:45

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

■

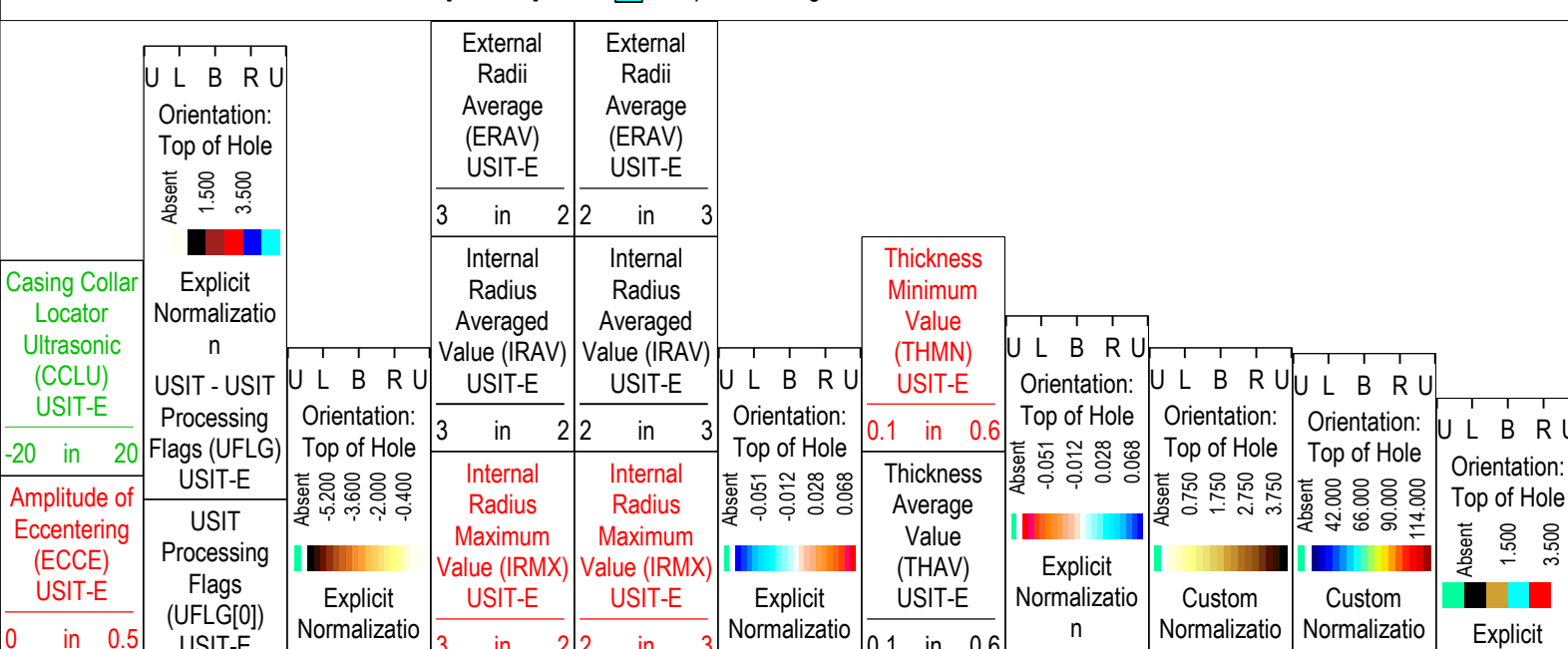
 WINLEN Error

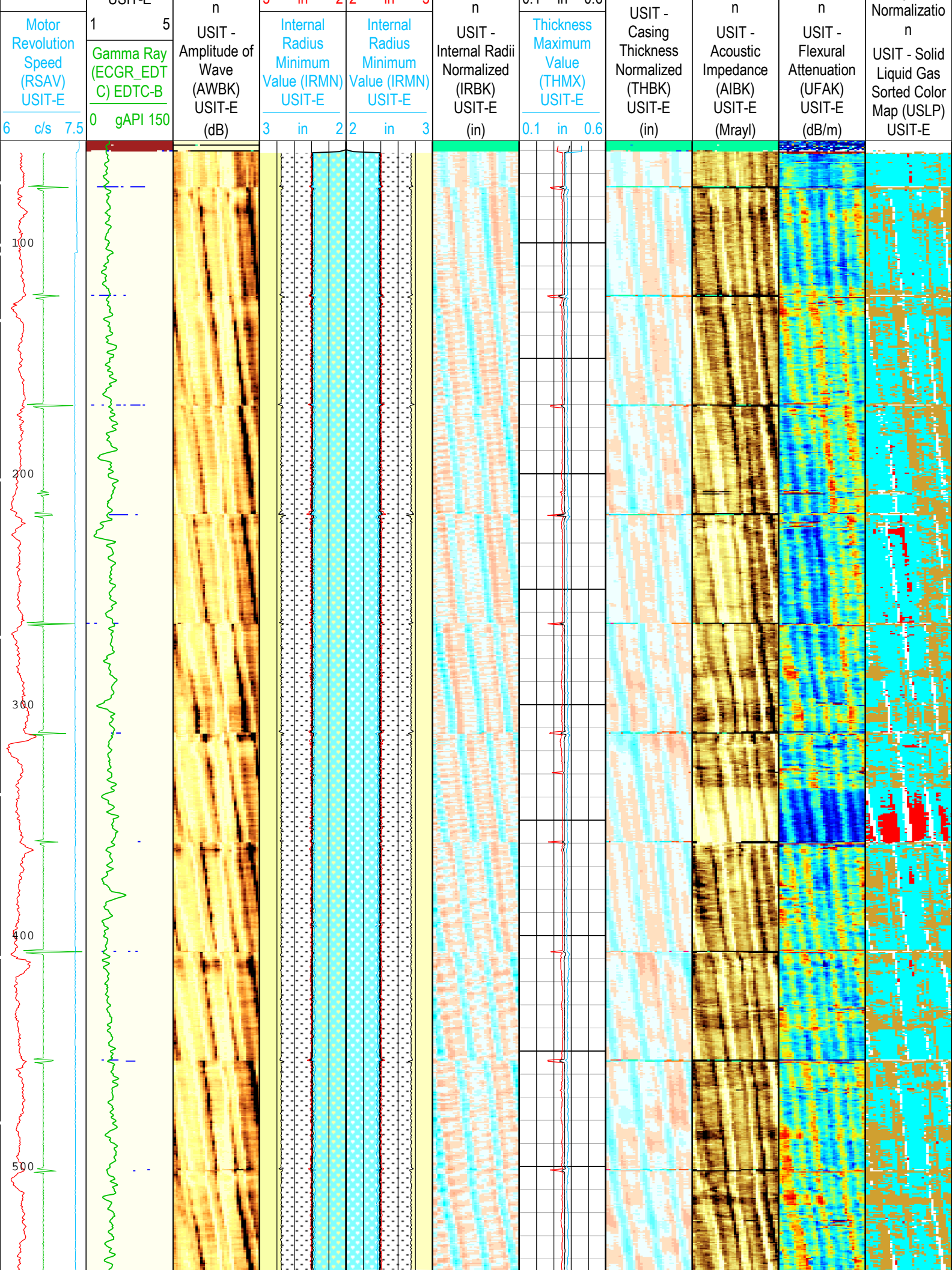
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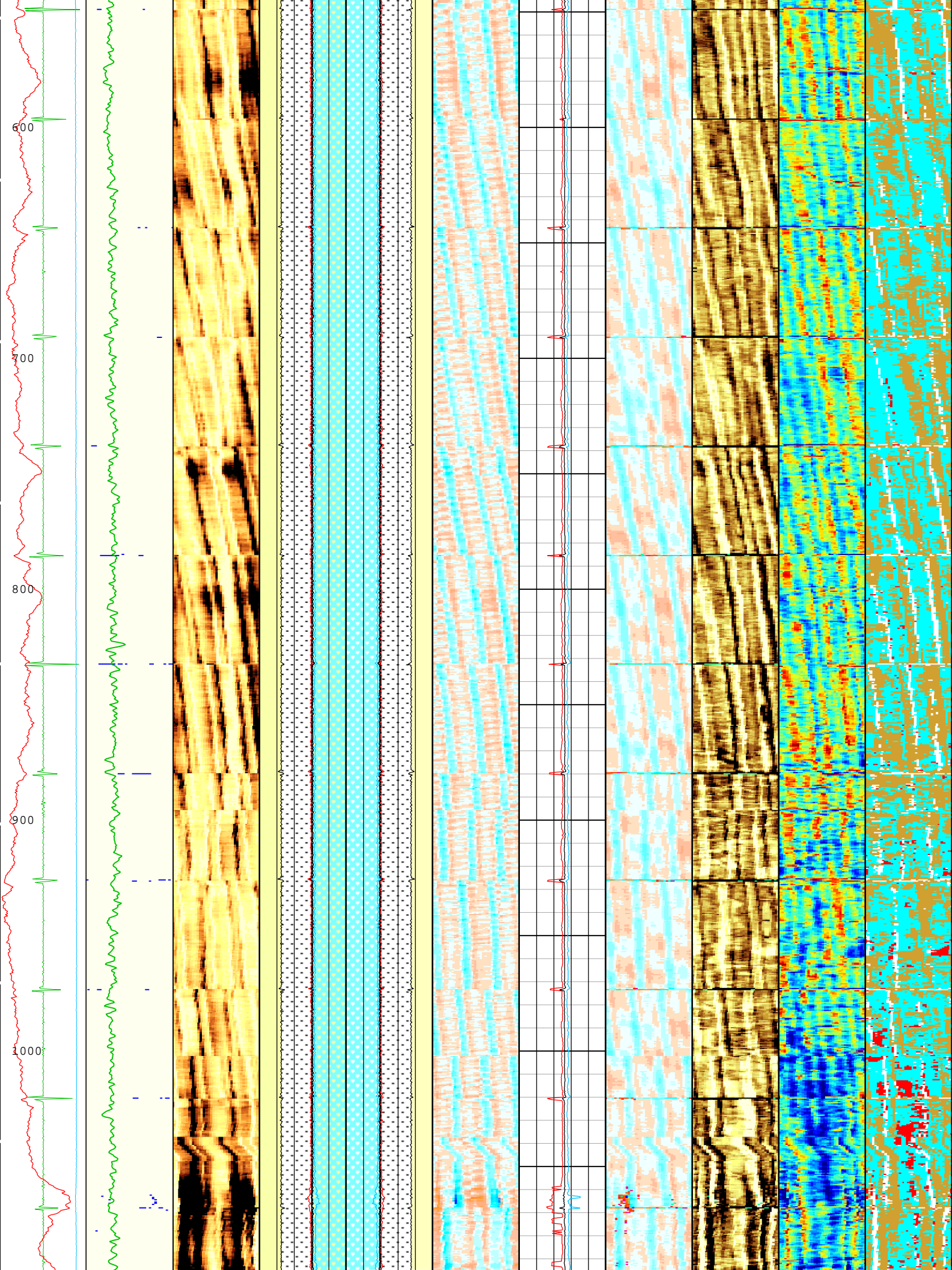
 Casing Thickness Error

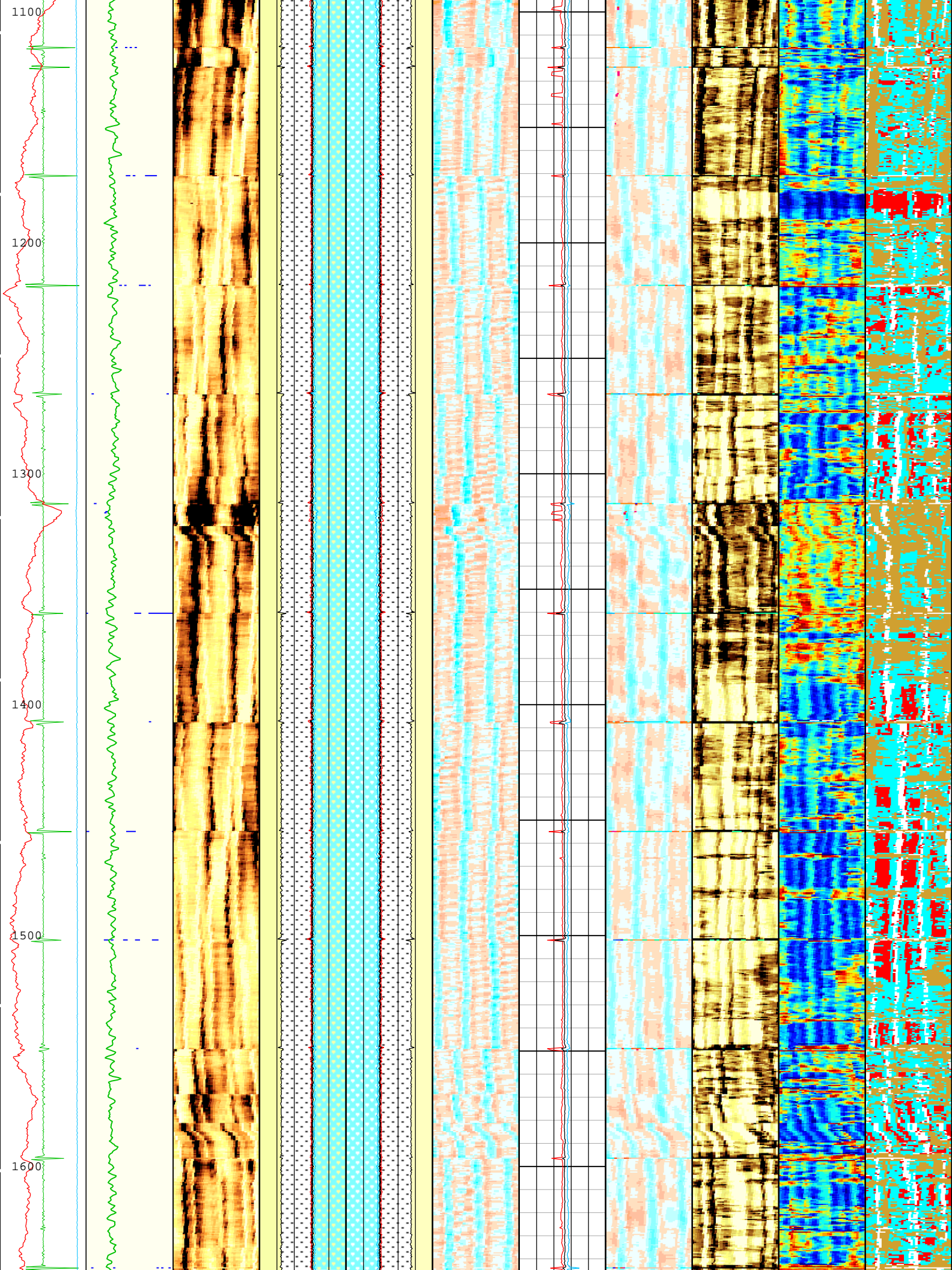
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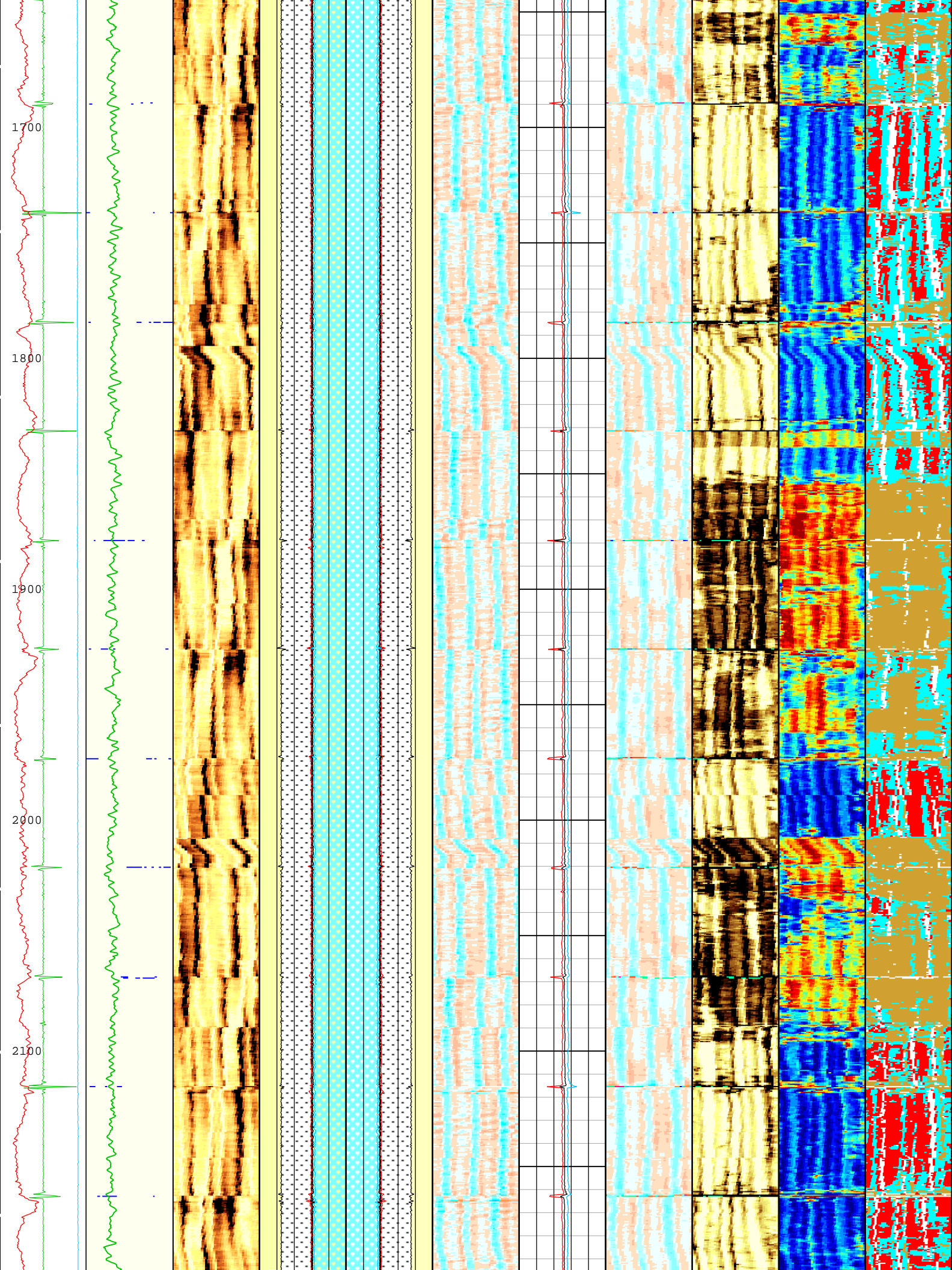
 Loop Processing Error

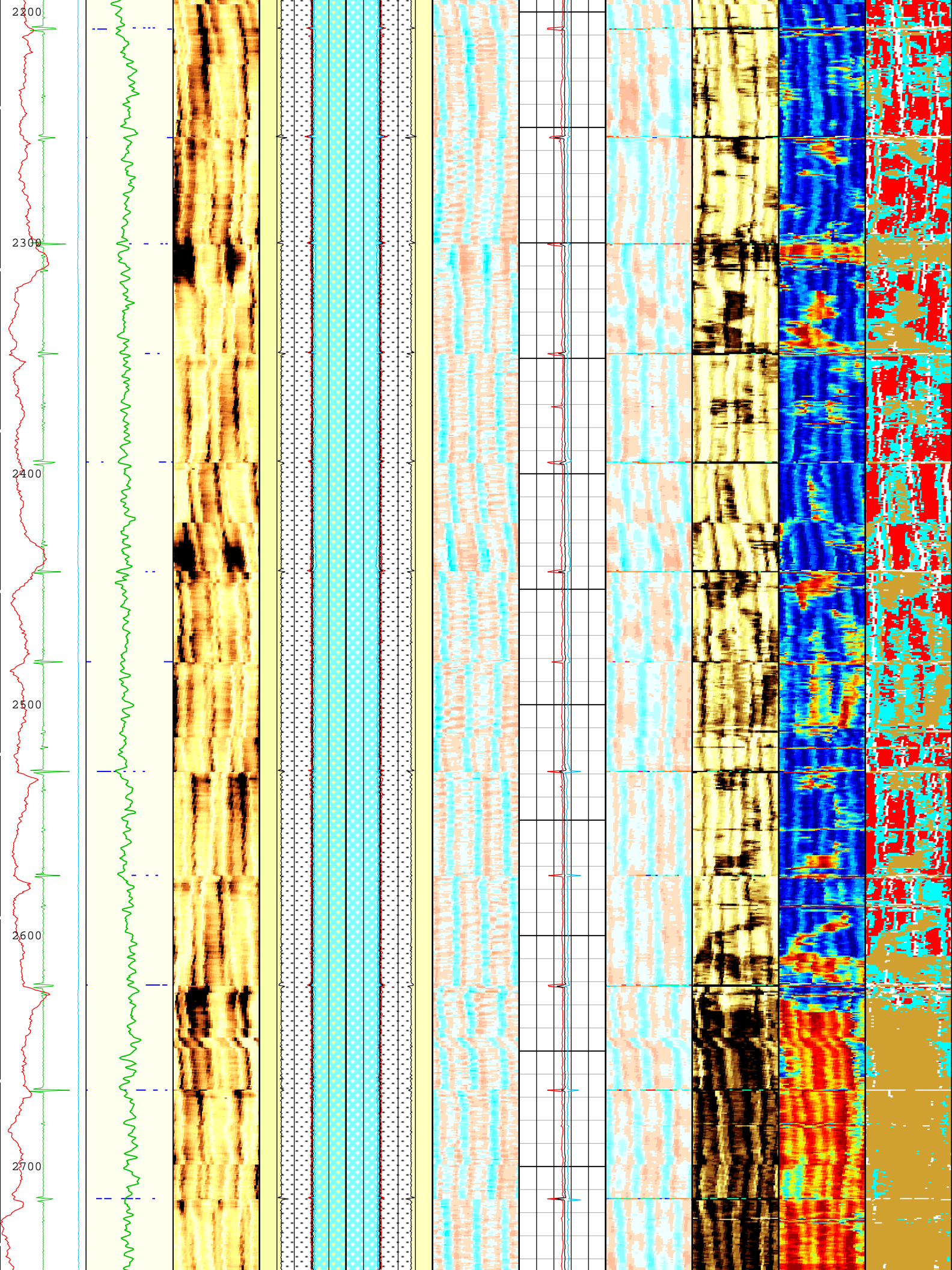


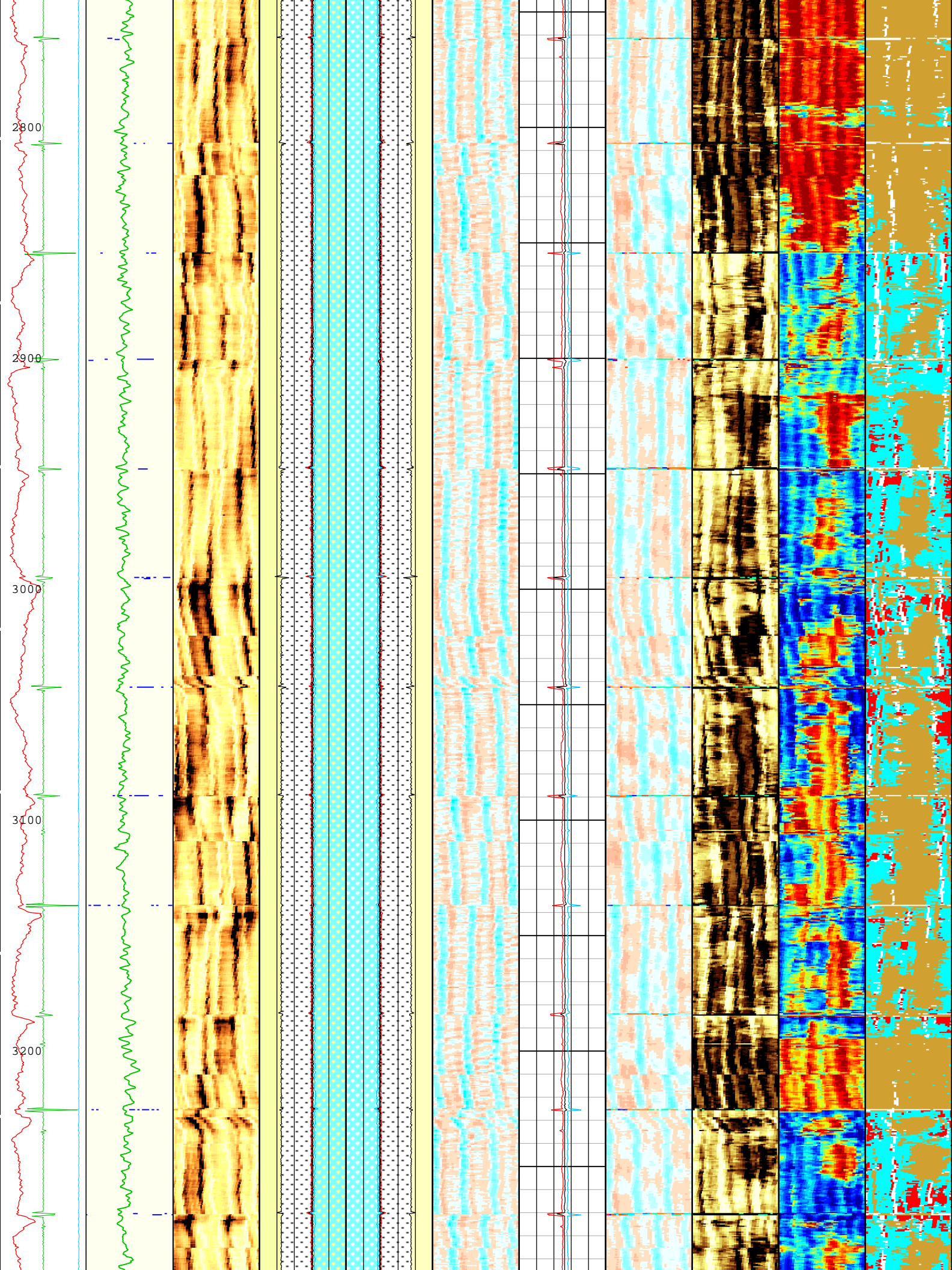


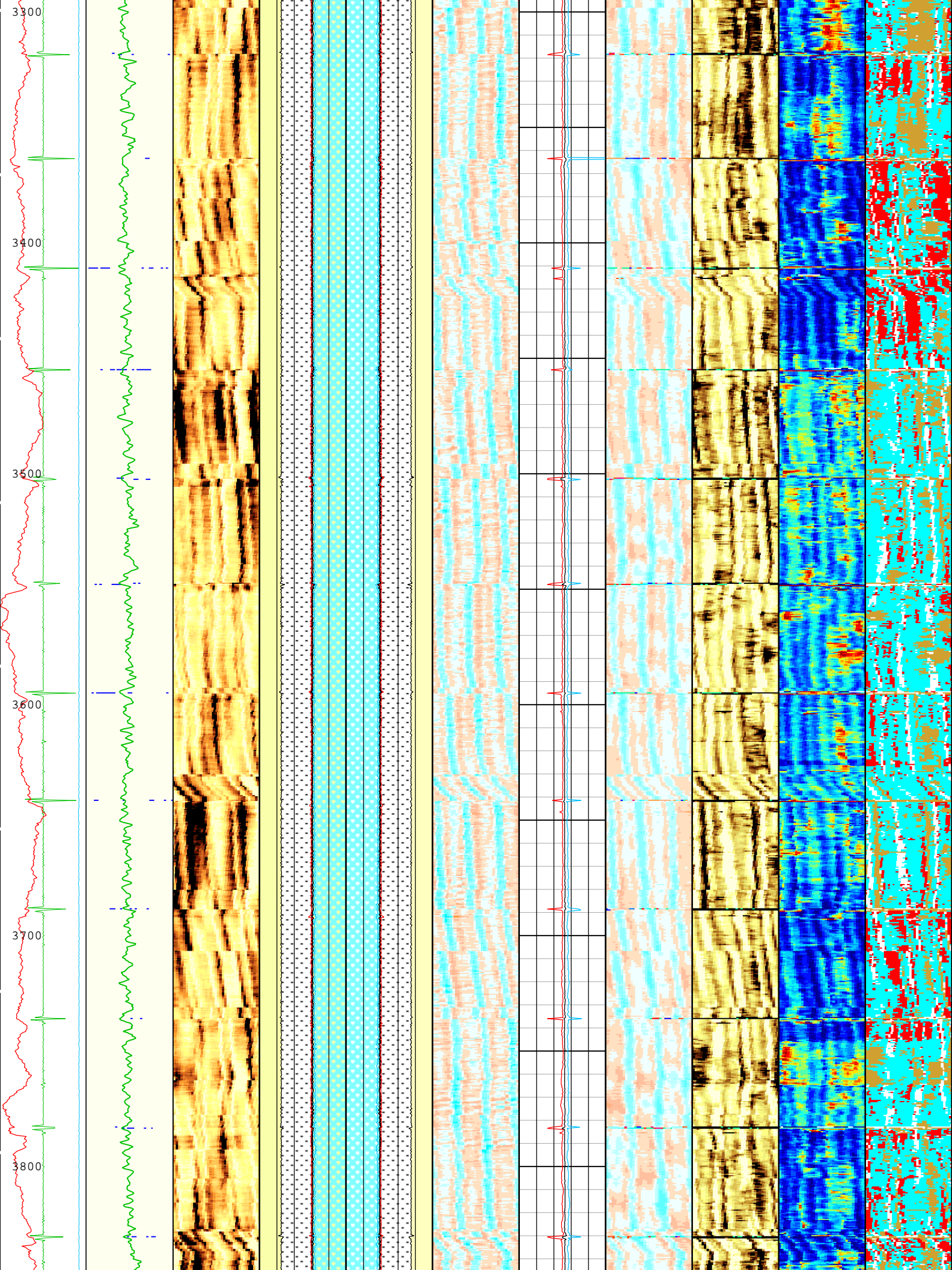


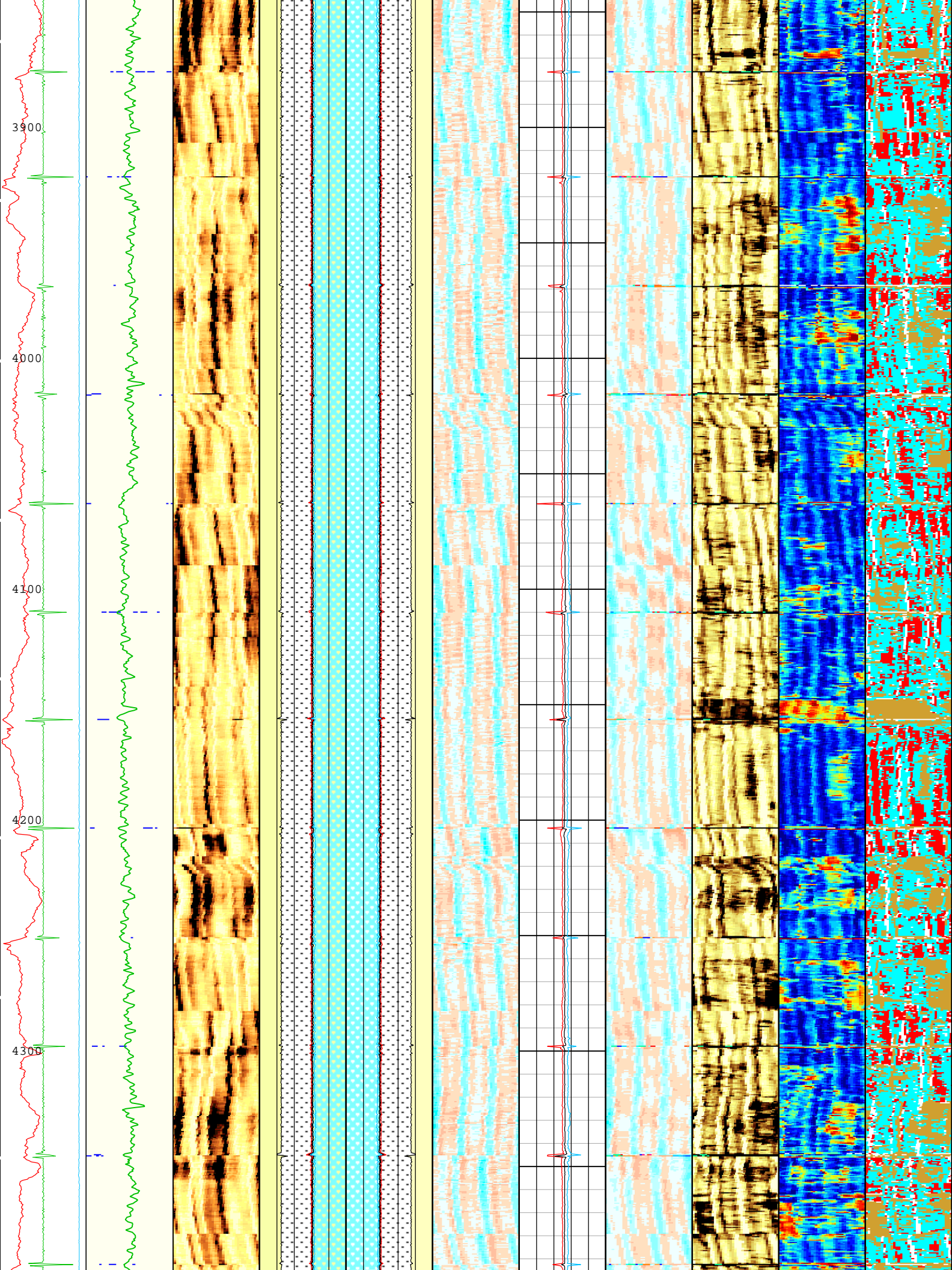


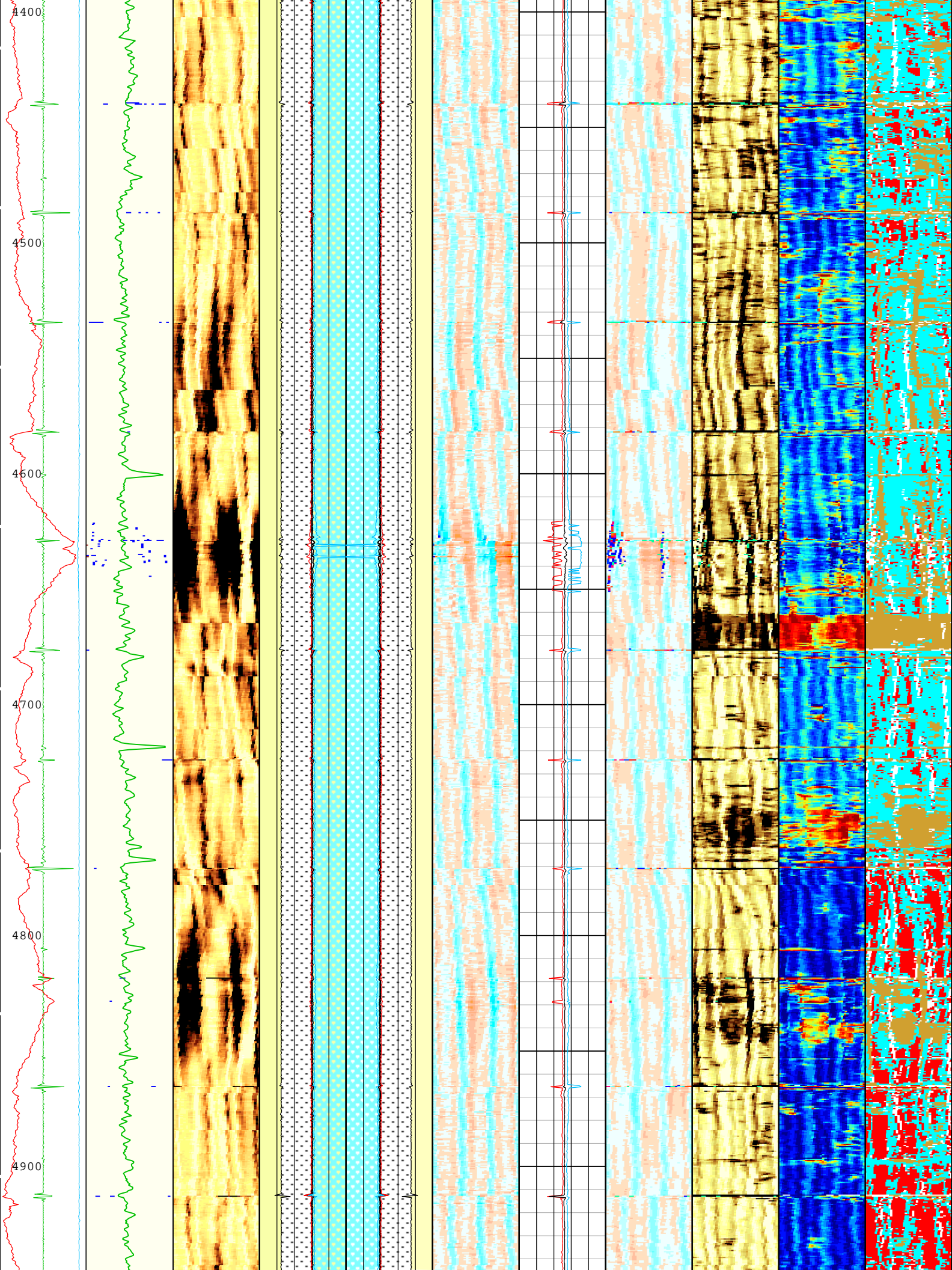


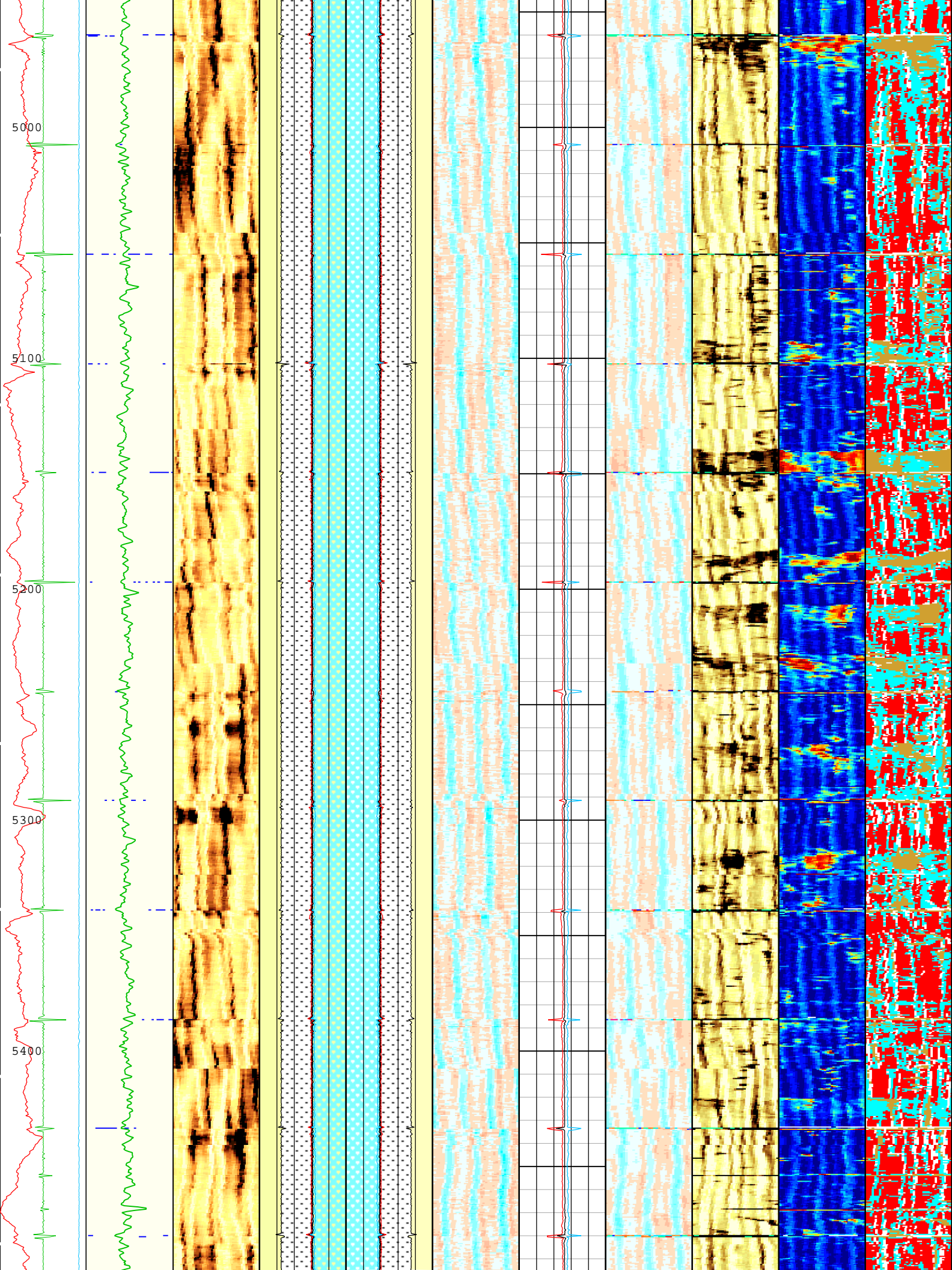


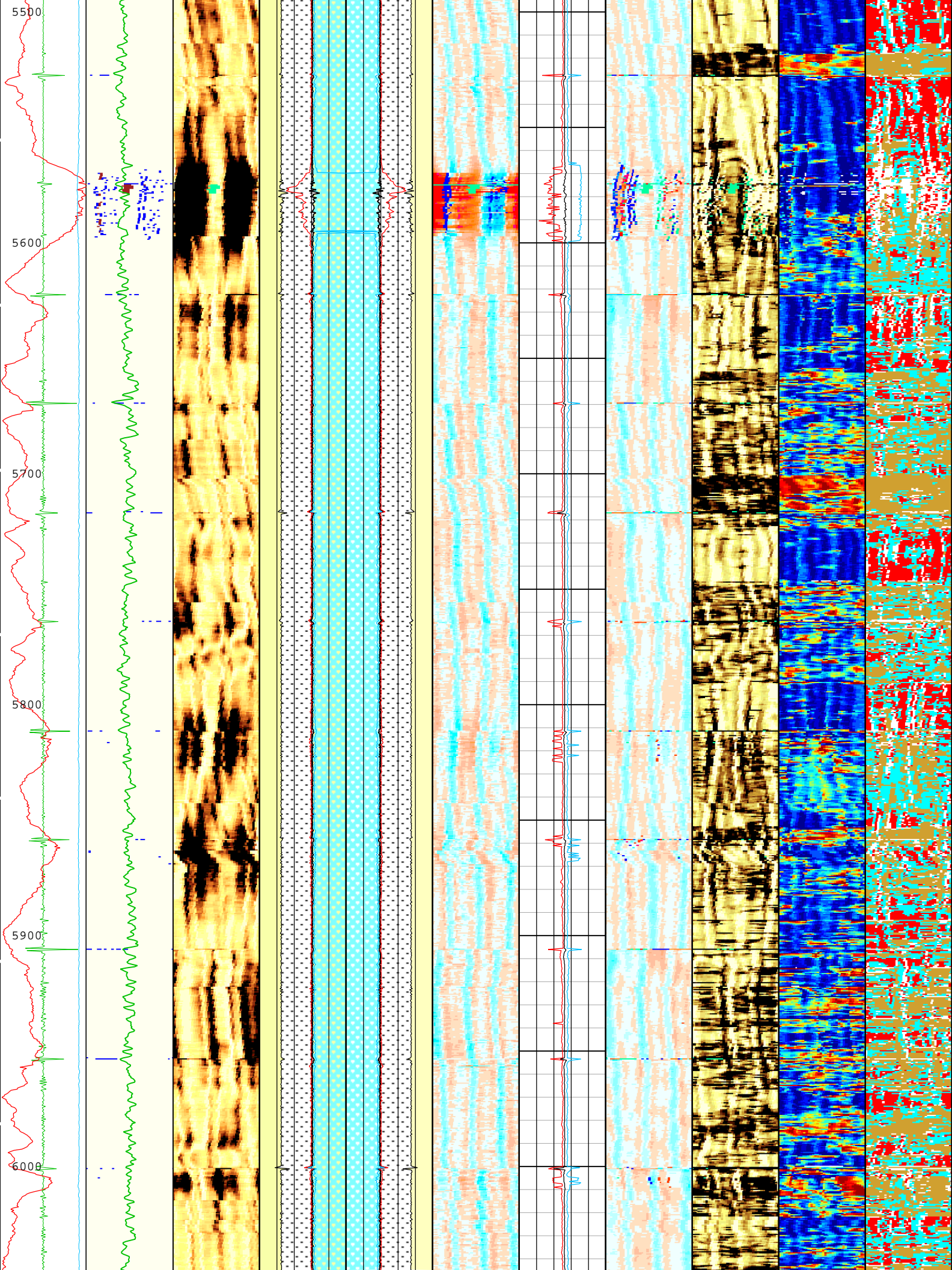


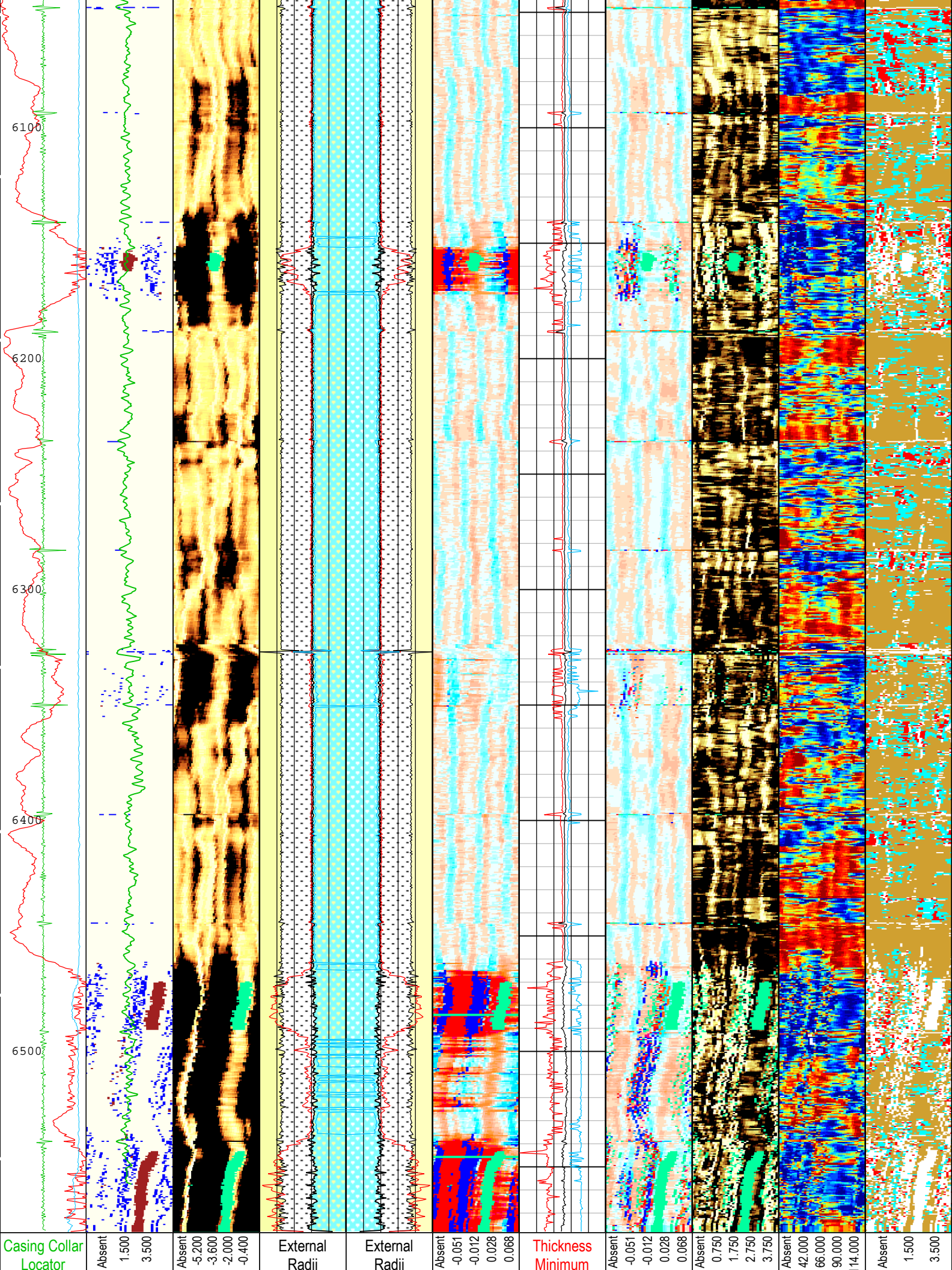












<div> </div> <div> Ultrasonic (CCLU) USIT-E </div> <div> -20 in 20 </div> <div> Amplitude of Eccentering (ECCE) USIT-E </div> <div> 0 in 0.5 </div> <div> <div> </div> <div> Motor Revolution Speed (RSAV) USIT-E </div> <div> 6 c/s 7.5 </div> </div>	<div> </div> <div> Explicit Normalization </div> <div> USIT - USIT Processing Flags (UFLG) USIT-E </div> <div> Orientation: Top of Hole </div> <div> U L B R U </div> <div> USIT Processing Flags (UFLG[0]) USIT-E </div> <div> 1 5 </div> <div> Gamma Ray (ECGR_EDT C) EDTC-B </div> <div> 0 gAPI 150 </div>	<div> </div> <div> Explicit Normalization </div> <div> USIT - Amplitude of Wave (AWBK) USIT-E (dB) </div> <div> Orientation: Top of Hole </div> <div> U L B R U </div>	<div> </div> <div> 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 Radius Minimum Value (IRMN) USIT-E </div> <div> 3 in 2 </div>	<div> </div> <div> 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 Radius Minimum Value (IRMN) USIT-E </div> <div> 2 in 3 </div>	<div> </div> <div> Explicit Normalization </div> <div> USIT - Internal Radii Normalized (IRBK) USIT-E (in) </div> <div> Orientation: Top of Hole </div> <div> U L B R U </div>	<div> </div> <div> 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 Maximum Value (THMX) USIT-E </div> <div> 0.1 in 0.6 </div>	<div> </div> <div> Explicit Normalization </div> <div> USIT - Casing Thickness Normalized (THBK) USIT-E (in) </div> <div> Orientation: Top of Hole </div> <div> U L B R U </div>	<div> </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> 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> 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>
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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: 21-Sep-2018 16:29:45

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	14720	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	-11.5	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	Inversion 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	1.1	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.21	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.63	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-10.51	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.77	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	56	2125
BS	8.5	2125	6578.5

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	177	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

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	80	20-Sep-2018 13:59:13	20-Sep-2018 14:05:05	6579.52	6185.01
EMXV	90	20-Sep-2018 14:05:05	20-Sep-2018 14:05:18	6185.01	6170.14
EMXV	100	20-Sep-2018 14:05:18	20-Sep-2018 15:34:38	6170.14	55.74
U-USIT_UNWE	146	20-Sep-2018 13:59:13	20-Sep-2018 14:01:52	6579.52	6413.18
U-USIT_UNWE	143.73	20-Sep-2018 14:01:52	20-Sep-2018 14:01:57	6413.18	6408.37
U-USIT_UNWE	140.1	20-Sep-2018 14:01:57	20-Sep-2018 15:34:38	6408.37	55.74
WINB	31.43	20-Sep-2018 13:59:13	20-Sep-2018 14:17:11	6579.52	5325.01
WINB	30.52	20-Sep-2018 14:17:11	20-Sep-2018 15:34:38	5325.01	55.74
WINE	69.92	20-Sep-2018 13:59:13	20-Sep-2018 14:00:34	6579.52	6505.69
WINE	72.01	20-Sep-2018 14:00:34	20-Sep-2018 14:26:06	6505.69	4685.06

WINE	69.92	20-Sep-2018 14:26:06	20-Sep-2018 15:34:38	4685.06	55.74
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All depth are at tool zero.

ONE

IBC Goodwin Compressed

Pass Summary

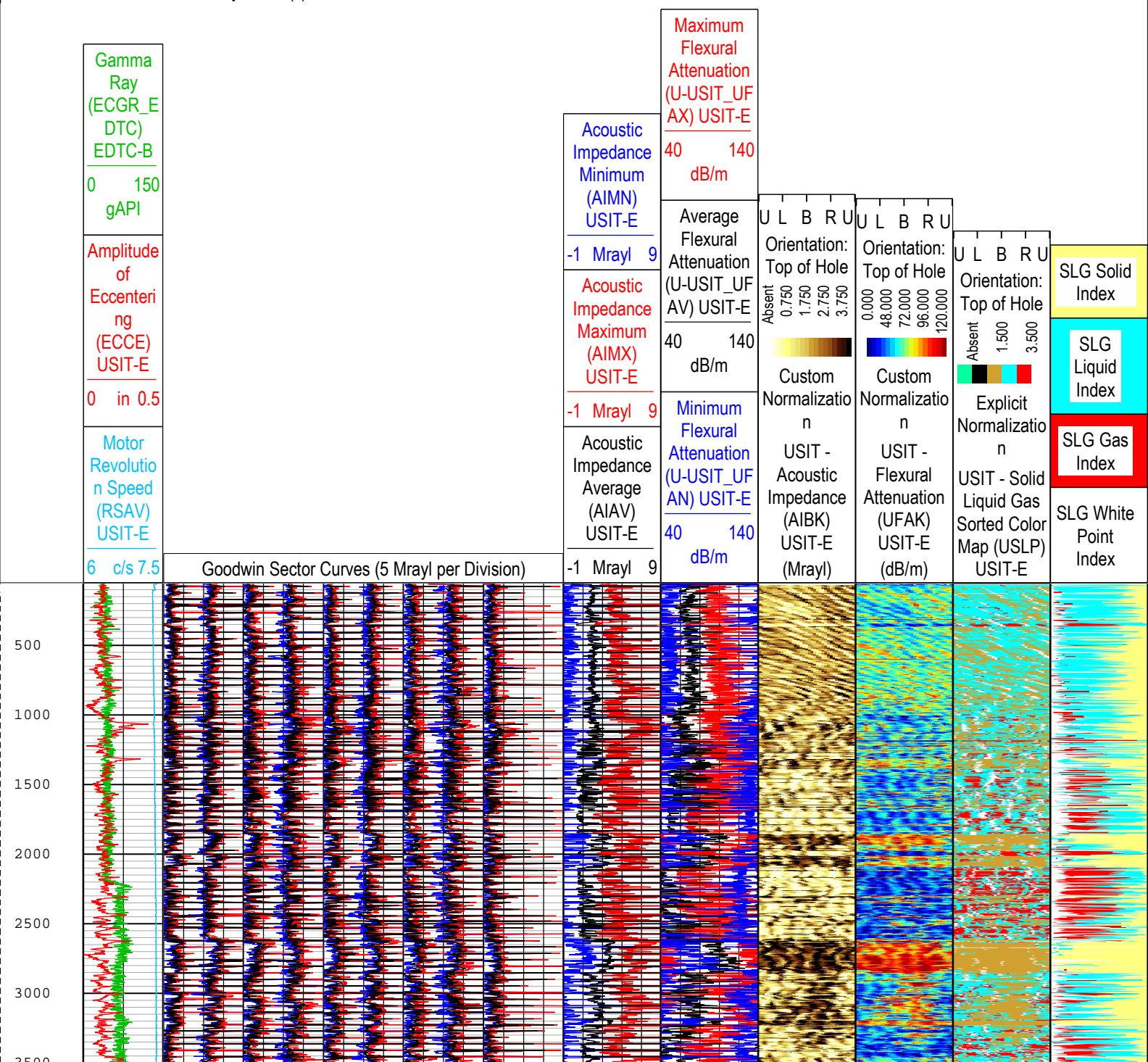
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[7]:Up	Up	55.74 ft	6579.53 ft	20-Sep-2018 1:59:13 PM	20-Sep-2018 3:34:38 PM	ON	7.12 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources Operating LLC	Well:Davis 1H-9H-G266
		ONE: Log[7]:Up:S007

Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-Sep-2018 16:29:53

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

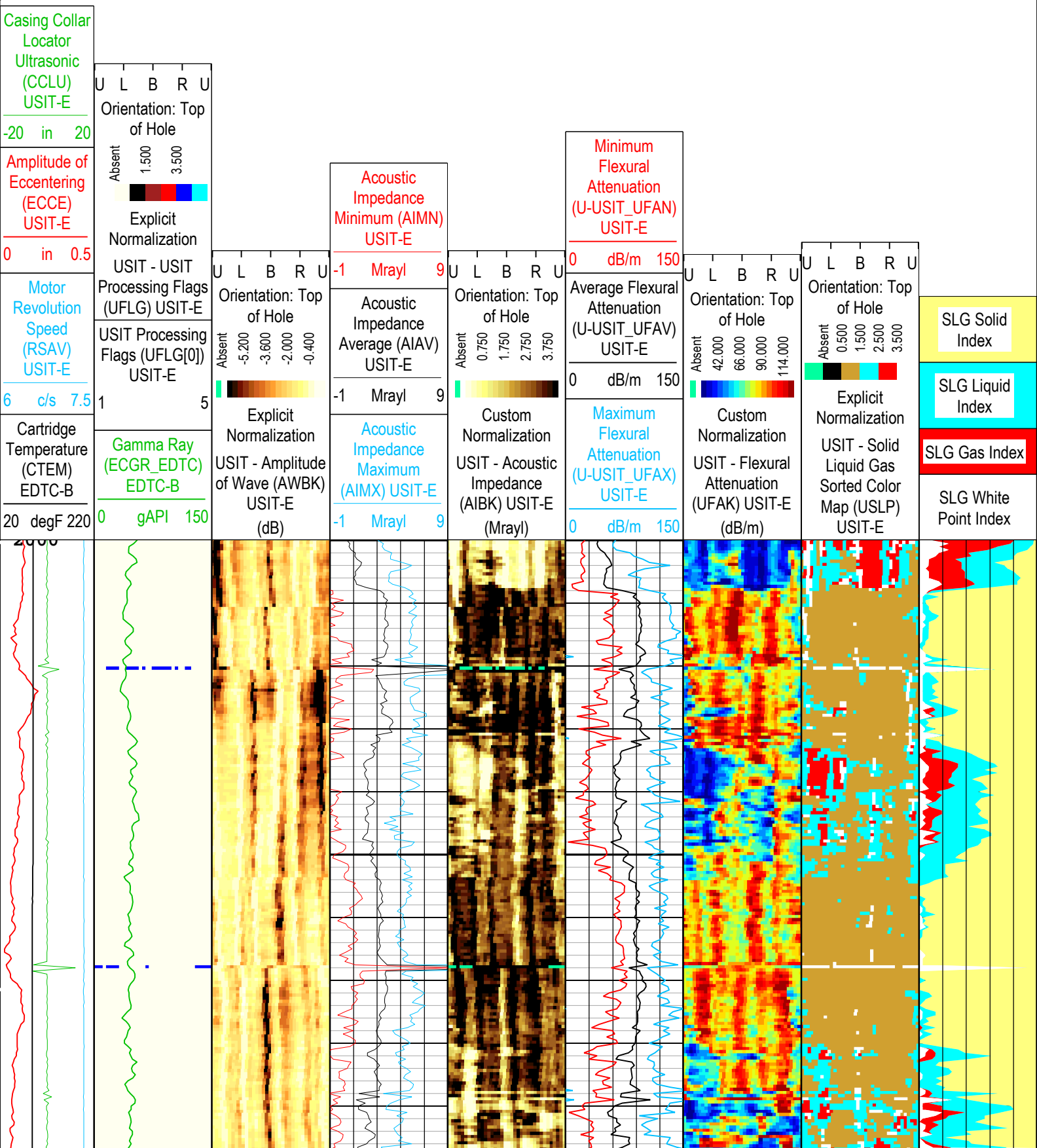
Pulse Origin Not Detected

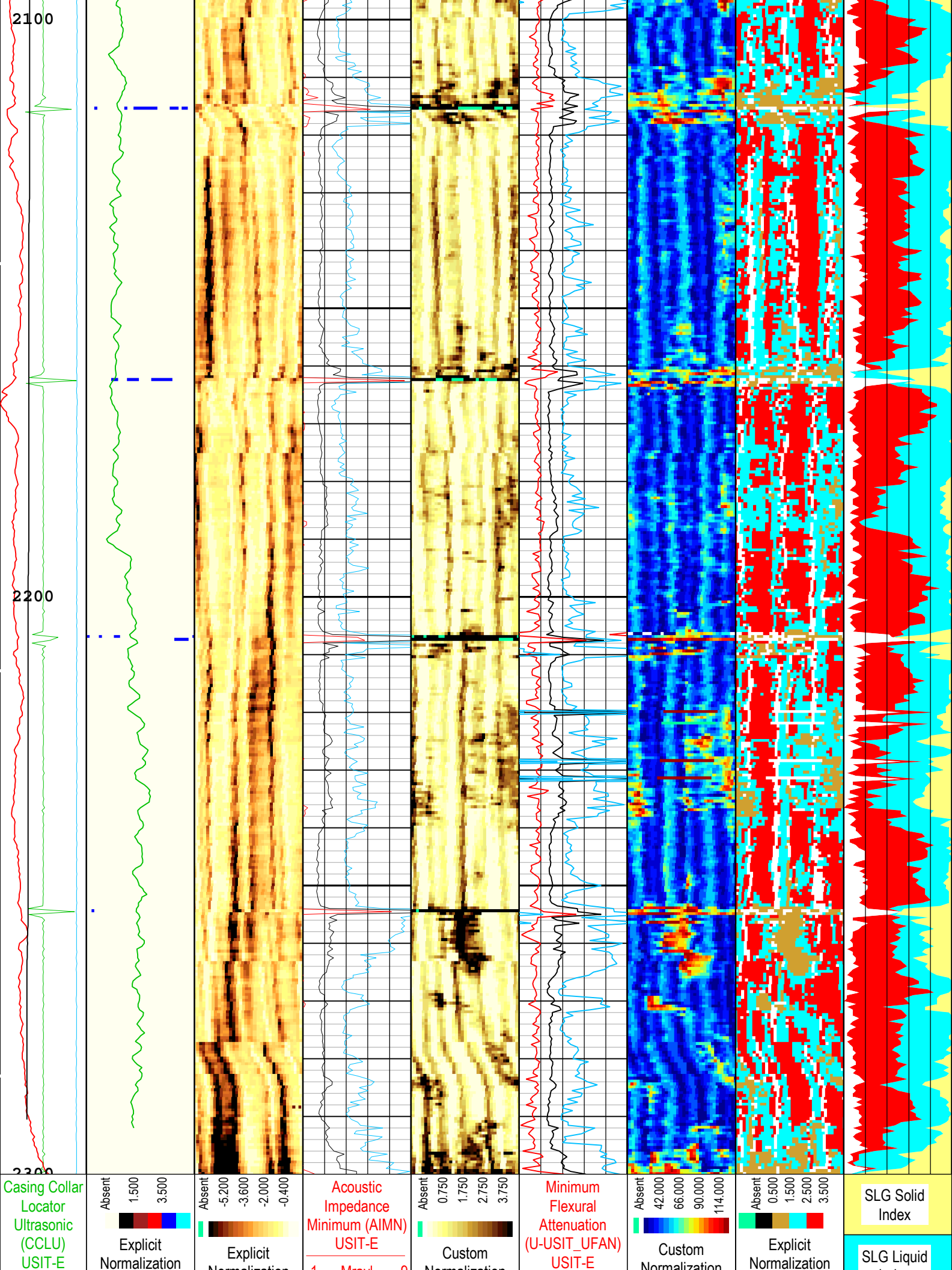
WINLEN Error

Casing Thickness Error

Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)





<div><div>-20 in 20</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>Cartridge Temperature (CTEM) EDTC-B</div><div>20 degF 220</div></div>	USIT - USIT Processing Flags (UFLG) USIT-E				USIT - Amplitude of Wave (AWBK) USIT-E				USIT - Acoustic Impedance (AIBK) USIT-E				USIT - Flexural Attenuation (UFAK) USIT-E				USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E				Index		
	Orientation: Top of Hole				Orientation: Top of Hole				Orientation: Top of Hole				Orientation: Top of Hole				Orientation: Top of Hole					SLG Gas Index	
	U L B R U				U L B R U				U L B R U				U L B R U				U L B R U				SLG White Point Index		
	USIT Processing Flags (UFLG[0]) USIT-E								Acoustic Impedance Maximum (AIMX) USIT-E				Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E										
	1 5								-1 Mrayl 9				0 dB/m 150				0 dB/m 150						
	Gamma Ray (ECGR_EDTC) EDTC-B								-1 Mrayl 9														
0 gAPI 150																							

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 Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-Sep-2018 16:29:58

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	14720	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	-11.5	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	Inversion 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	1.1	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.21	
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	1.63	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-10.51	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	1.77	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	2125
BS	8.5	2125	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	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	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	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	60	20-Sep-2018 13:28:15	20-Sep-2018 13:28:49	2314.07	2295.02
EMXV	70	20-Sep-2018 13:28:49	20-Sep-2018 13:29:19	2295.02	2260.16
EMXV	80	20-Sep-2018 13:29:19	20-Sep-2018 13:33:53	2260.16	1961.33
WINB	31.88	20-Sep-2018 13:28:15	20-Sep-2018 13:29:42	2314.07	2232.77
WINB	30.37	20-Sep-2018 13:29:42	20-Sep-2018 13:29:52	2232.77	2221.29
WINB	31.43	20-Sep-2018 13:29:52	20-Sep-2018 13:33:53	2221.29	1961.33
WINE	71.88	20-Sep-2018 13:28:15	20-Sep-2018 13:29:45	2314.07	2229.95
WINE	72.59	20-Sep-2018 13:29:45	20-Sep-2018 13:29:51	2229.95	2223.32
WINE	71.18	20-Sep-2018 13:29:51	20-Sep-2018 13:33:53	2223.32	1961.33

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	1961.33 ft	2314.08 ft	20-Sep-2018 1:28:15 PM	20-Sep-2018 1:33:53 PM	ON	0.60 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources Operating LLC	Well:Davis 1H-9H-G266
		ONE: Log[2]:Up:S007

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: 21-Sep-2018 16:30:03

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

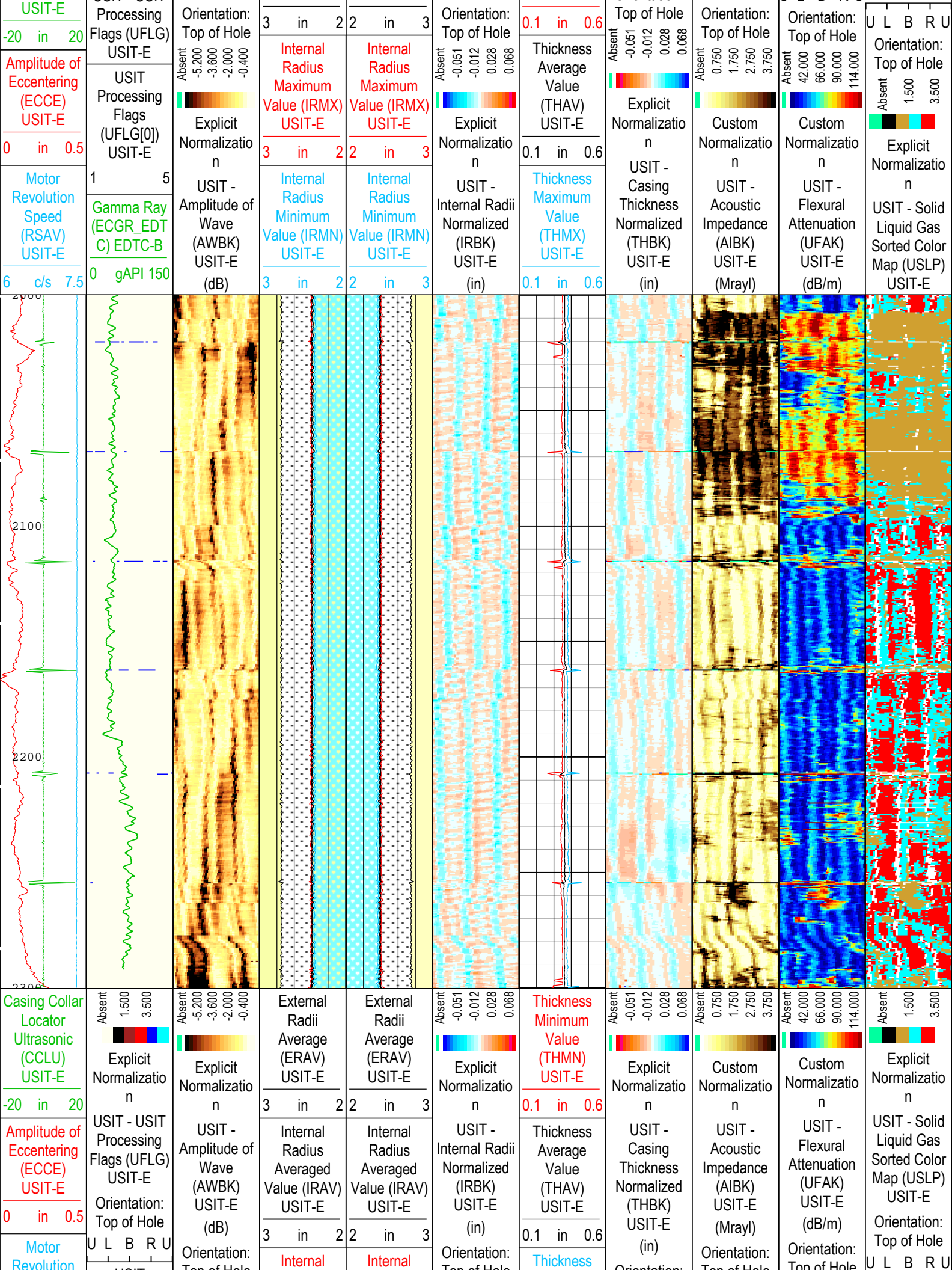
WINLEN Error






Casing Thickness Error

Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

<div> <div> <div>U L B R U</div> <div>Orientation: Top of Hole</div> <div>Absent</div> <div>1.500</div> <div>3.500</div> <div>Explicit Normalization</div> <div>USIT - USIT</div> </div> <div> <div>Casing Collar Locator Ultrasonic (CCLU)</div> </div> </div>	<div> <div> <div>External Radii Average (ERAV) USIT-E</div> <div>3 in 2</div> </div> <div> <div>Internal Radius Averaged Value (IRAV) USIT-E</div> </div> </div>	<div> <div> <div>External Radii Average (ERAV) USIT-E</div> <div>2 in 3</div> </div> <div> <div>Internal Radius Averaged Value (IRAV) USIT-E</div> </div> </div>	<div> <div>Thickness Minimum Value (THMN) USIT-E</div> </div>	<div> <div>U L B R U</div> <div>Orientation:</div> <div>U L B R U</div> <div>U L B R U</div> </div>
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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		
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: 21-Sep-2018 16:30:03				

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	14720	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	-11.5	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	Inversion 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	1.1	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.21	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.63	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-10.51	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.77	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	13.5	2000	2125
BS	8.5	2125	2300

Tool Control Parameters	
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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	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	Time Zoned	us
WINE	Window End Time	USIT-E	Time Zoned	us

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	60	20-Sep-2018 13:28:15	20-Sep-2018 13:28:49	2314.07	2295.02
EMXV	70	20-Sep-2018 13:28:49	20-Sep-2018 13:29:19	2295.02	2260.16
EMXV	80	20-Sep-2018 13:29:19	20-Sep-2018 13:33:53	2260.16	1961.33
WINB	31.88	20-Sep-2018 13:28:15	20-Sep-2018 13:29:42	2314.07	2232.77
WINB	30.37	20-Sep-2018 13:29:42	20-Sep-2018 13:29:52	2232.77	2221.29
WINB	31.43	20-Sep-2018 13:29:52	20-Sep-2018 13:33:53	2221.29	1961.33
WINE	71.88	20-Sep-2018 13:28:15	20-Sep-2018 13:29:45	2314.07	2229.95
WINE	72.59	20-Sep-2018 13:29:45	20-Sep-2018 13:29:51	2229.95	2223.32
WINE	71.18	20-Sep-2018 13:29:51	20-Sep-2018 13:33:53	2223.32	1961.33

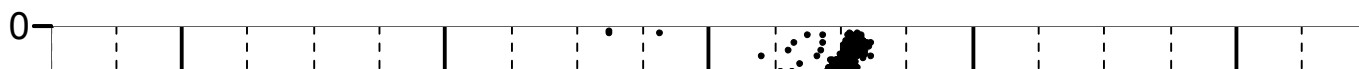
XYZ

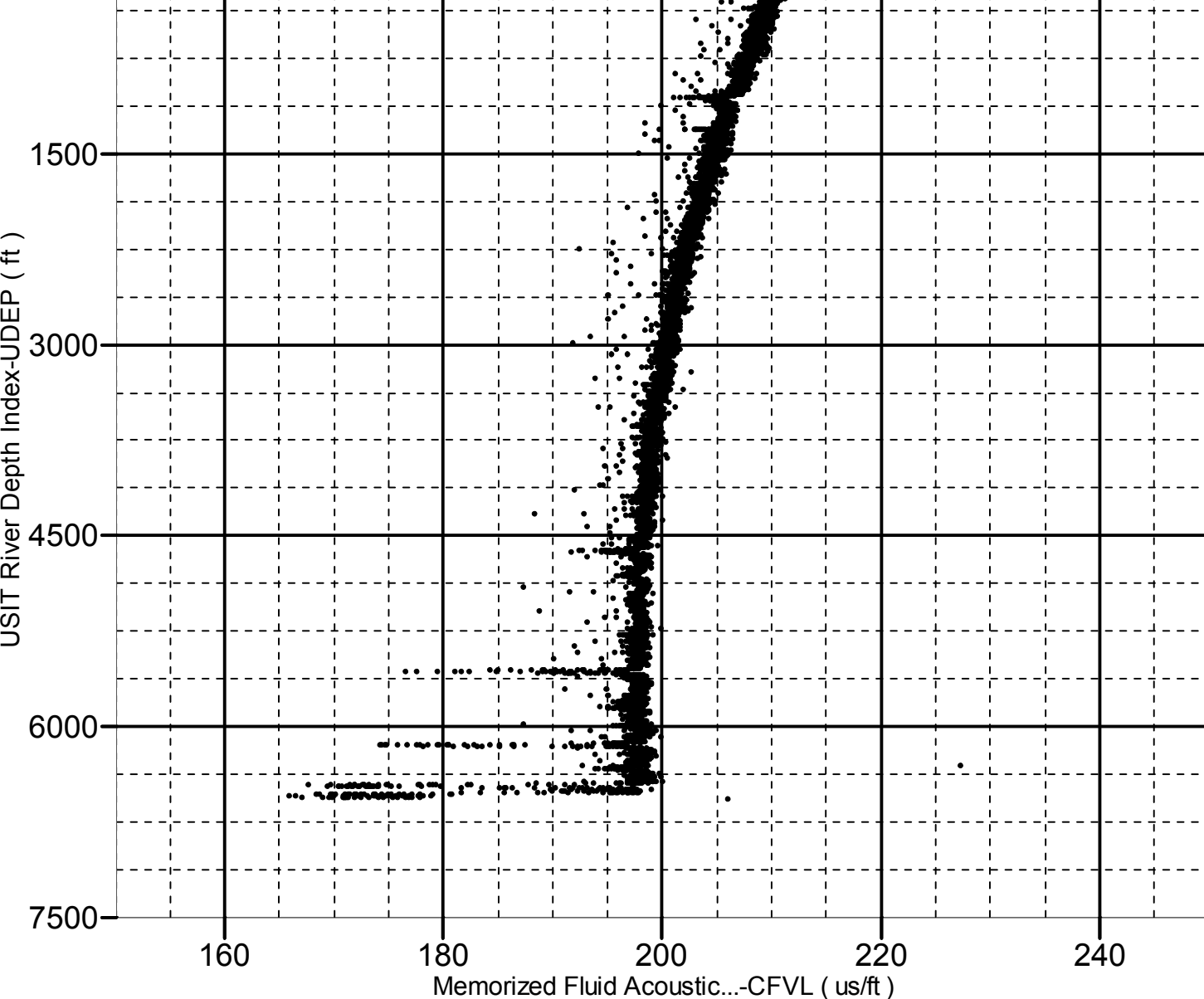
Company:Crestone Peak Resources Operating LLC Well:Davis 1H-9H-G266
ONE: Log[7]:Up:S007

2D Cross Plot

Index Range: From 6578.50 to 55.00 ft

- CFVL-UDEP



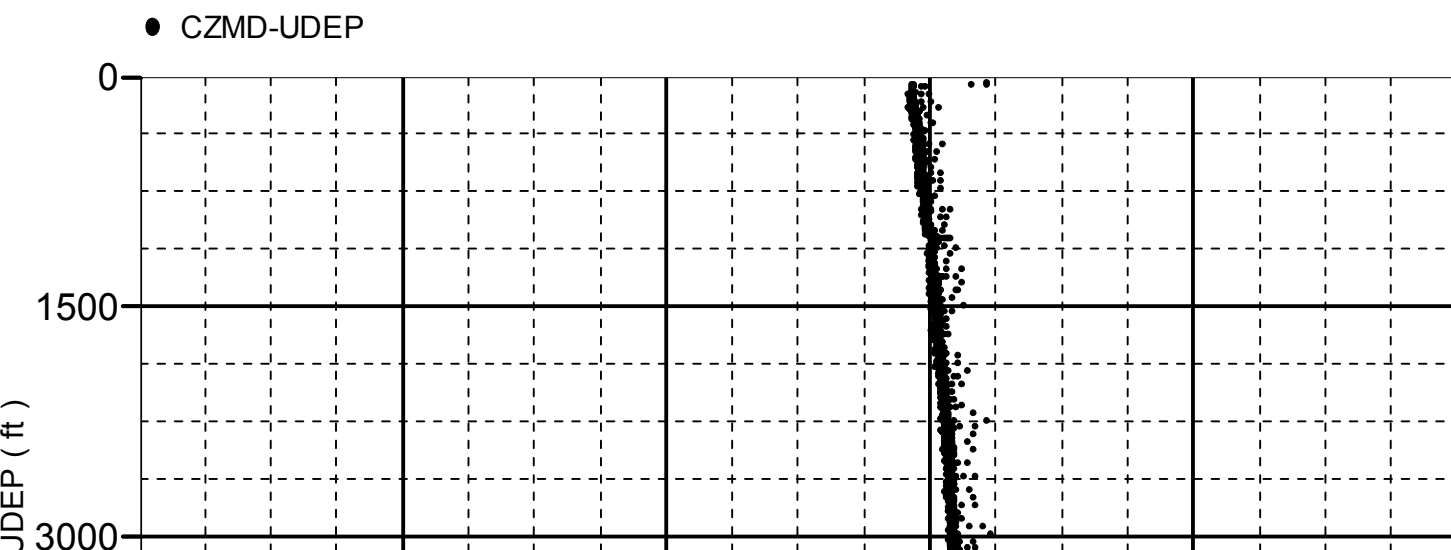


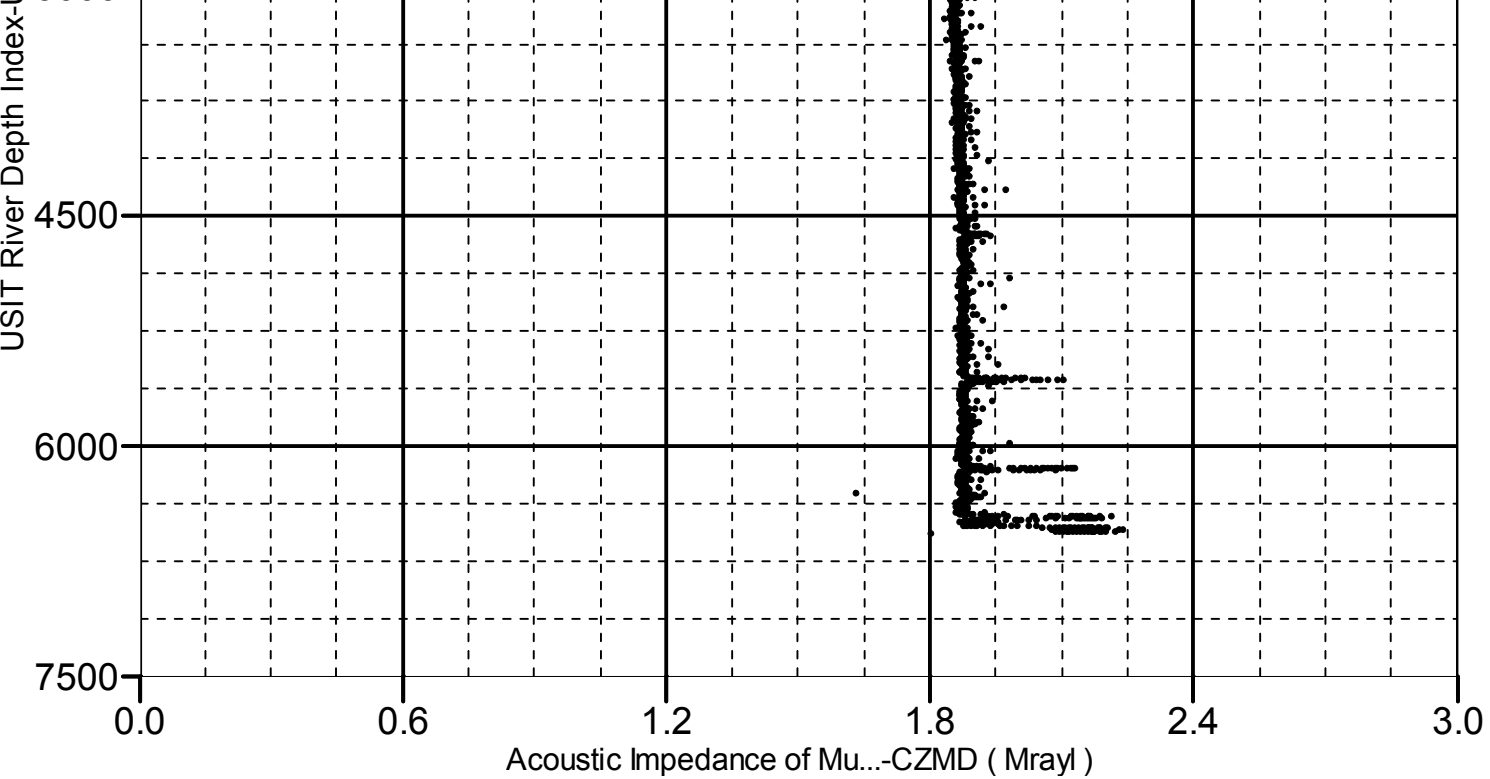
XYZ Company:Crestone Peak Resources Operating LLC Well:Davis 1H-9H-G266 ONE: Log[7]:Up:S007

Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 6578.50 to 55.00 ft





Company:	Crestone Peak Resources Operating LLC	Schlumberger
Well:	Davis 1H-9H-G266	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
Isolation Scanner		
Cement Evaluation		
Gamma Ray - CCL Log		