

Company: Crestone Peak Resources Operating LLC

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

Location:		SWSE Sec. 9, T2N, R66W SHL: 2013' FNL & 1453' FEL Lat/Long: 40.154297, -104.777999	Elev.: K.B. 4940.00 ft G.L. 4917.00 ft D.F. 4940.00 ft
Permanent Datum:	Ground Level		Elev.: 4917.00 f
Log Measured From:	Kelly Bushing		23.00 ft
Drilling Measured From:	Kelly Bushing		above Perm.Datum
API Serial No. 05-123-46503	Section: 9	Township: 2N	Range: 66W

Logging Date	23-Sep-2018		
Run Number	ONE		
Depth Driller	15288.00 ft		
Schlumberger Depth	15288.00 ft		
Bottom Log Interval	7098.00 ft		
Top Log Interval	64.00 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	2165.00 ft		
To	15288.00 ft		
Casing/Tubing Size	5.5 in		
Weight	20 lbm/ft		
Grade	P110		
From	0.00 ft		
To	15288.00 ft		
Max Recorded Temperatures	195.2 degF		
Logger on Bottom	Time	08:14:00	
Unit Number	Location:	Fort Morgan, CO	
Recorded By	A.BLOCHOWICZ		
Witnessed By	DUANE DUNN		

Disclaimer

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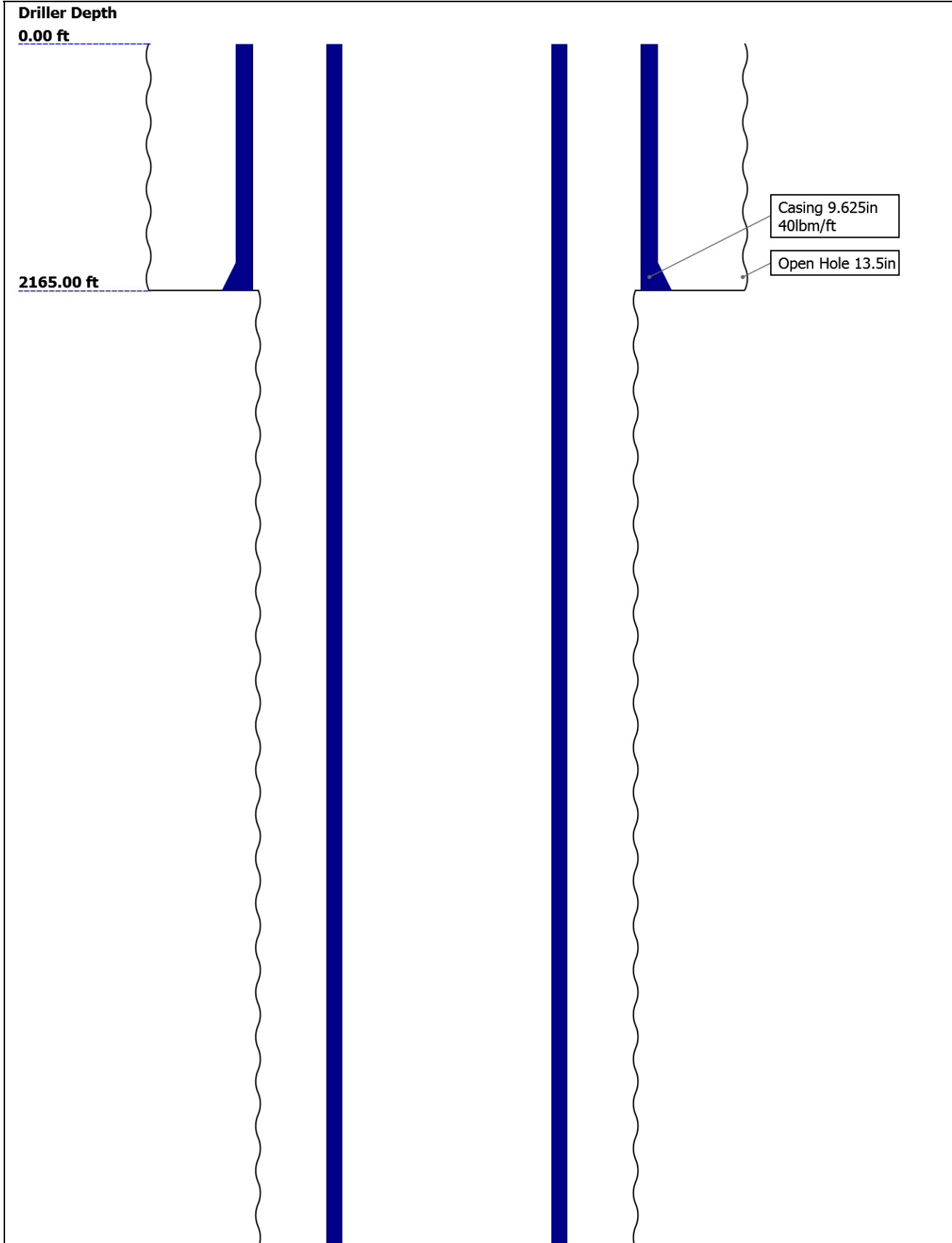
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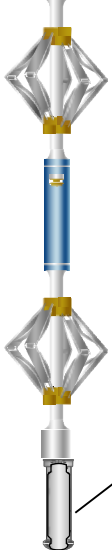
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Well Sketch





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[4]:Up	7103.1	54.86

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 : 29.32m(96.20ft) to 33.51m(109.95ft)  
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	54.86 ft	7103.10 ft	23-Sep-2018 8:14:57 AM	23-Sep-2018 9:58:24 AM	ON	6.46 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources Operating LLC      Well:Davis 1P-9H-G266 ONE: Log[4]:Up:S003
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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 17:17:23

TIME\_1900 - Time Marked every 60.00 (s)

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

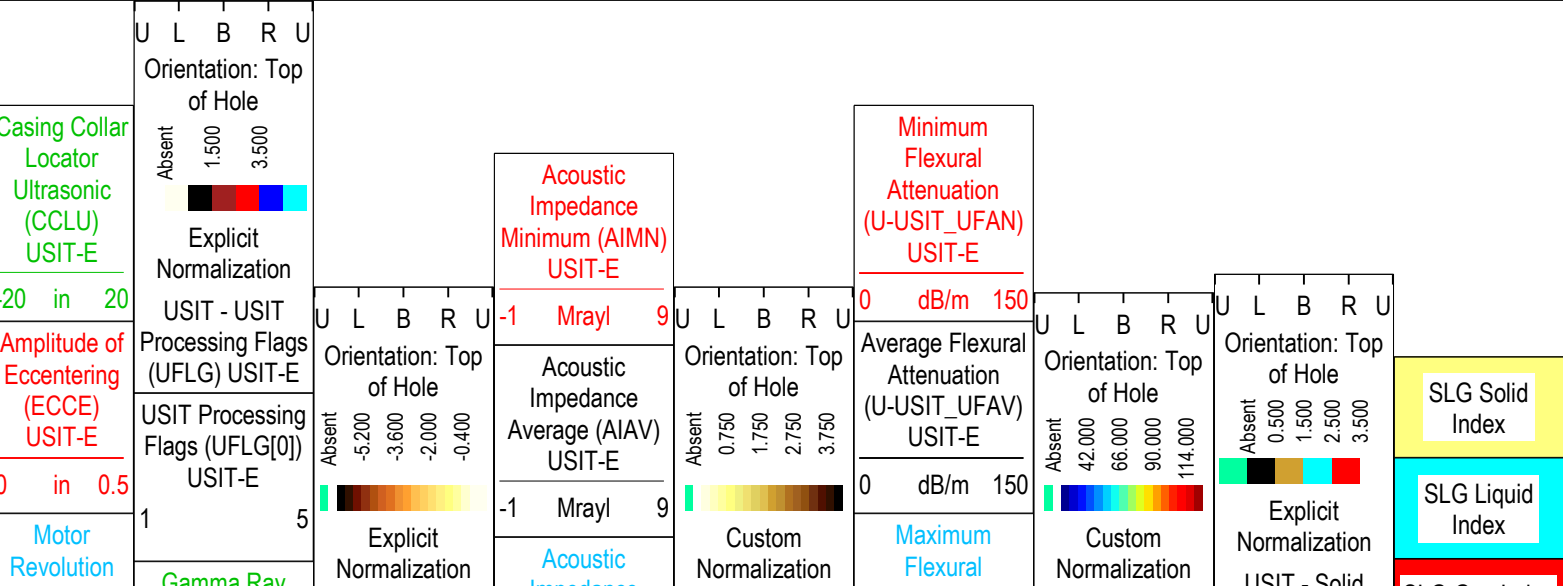
- 1 - UFLG 1 Value within [0.0 - 1.5] - :  
2 - UFLG 2 Value within [1.5 - 2.5] - :  
3 - UFLG 3 Value within [2.5 - 3.5] - :  
4 - UFLG 4    UFLG 5    UFLG 6 Value within [3.5 - 6.5] - :  
5 - UFLG 7    UFLG 8    UFLG 9 Value within [6.5 - 10 ] - :
- UTIM Error

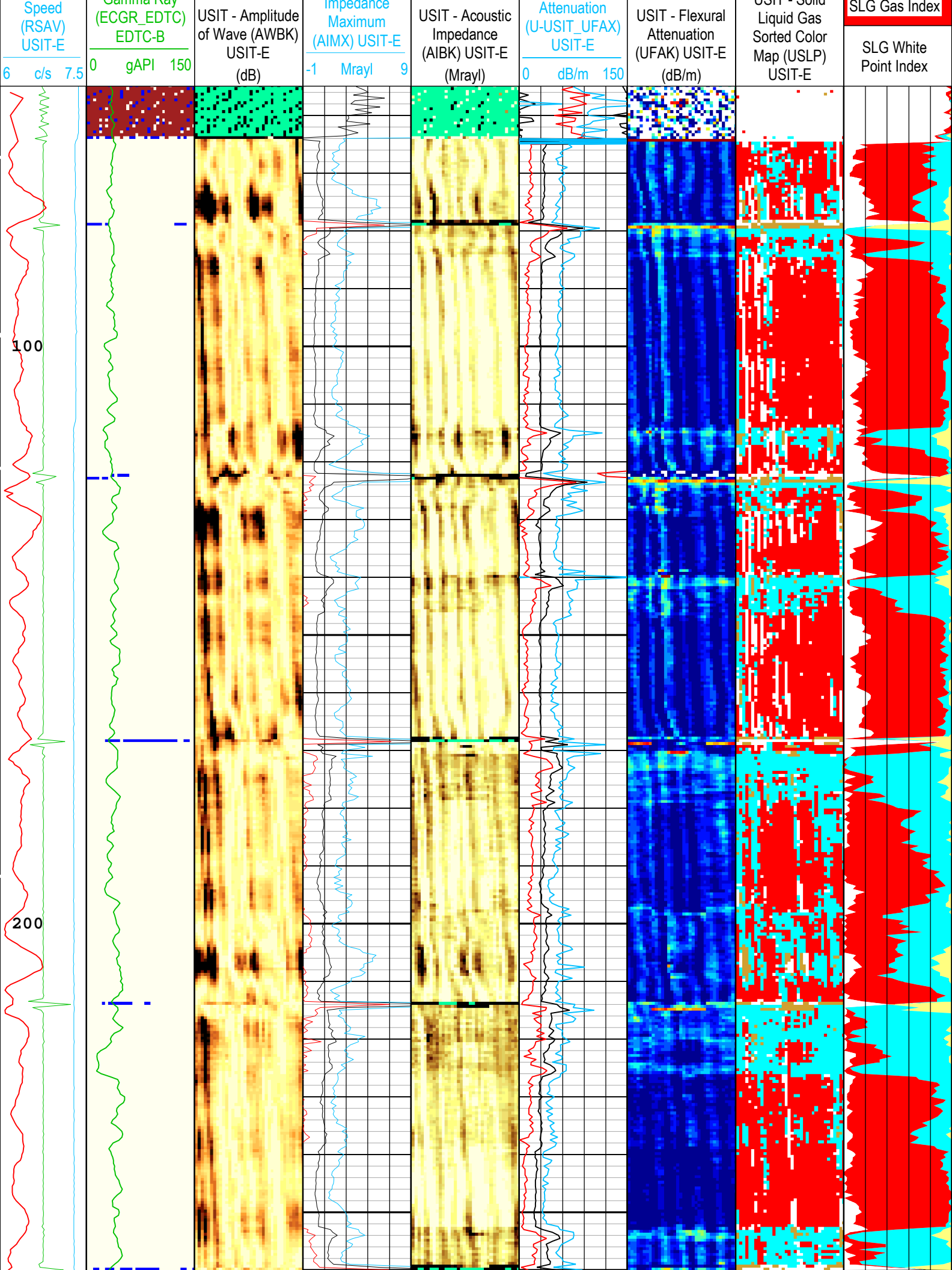
Pulse Origin Not Detected

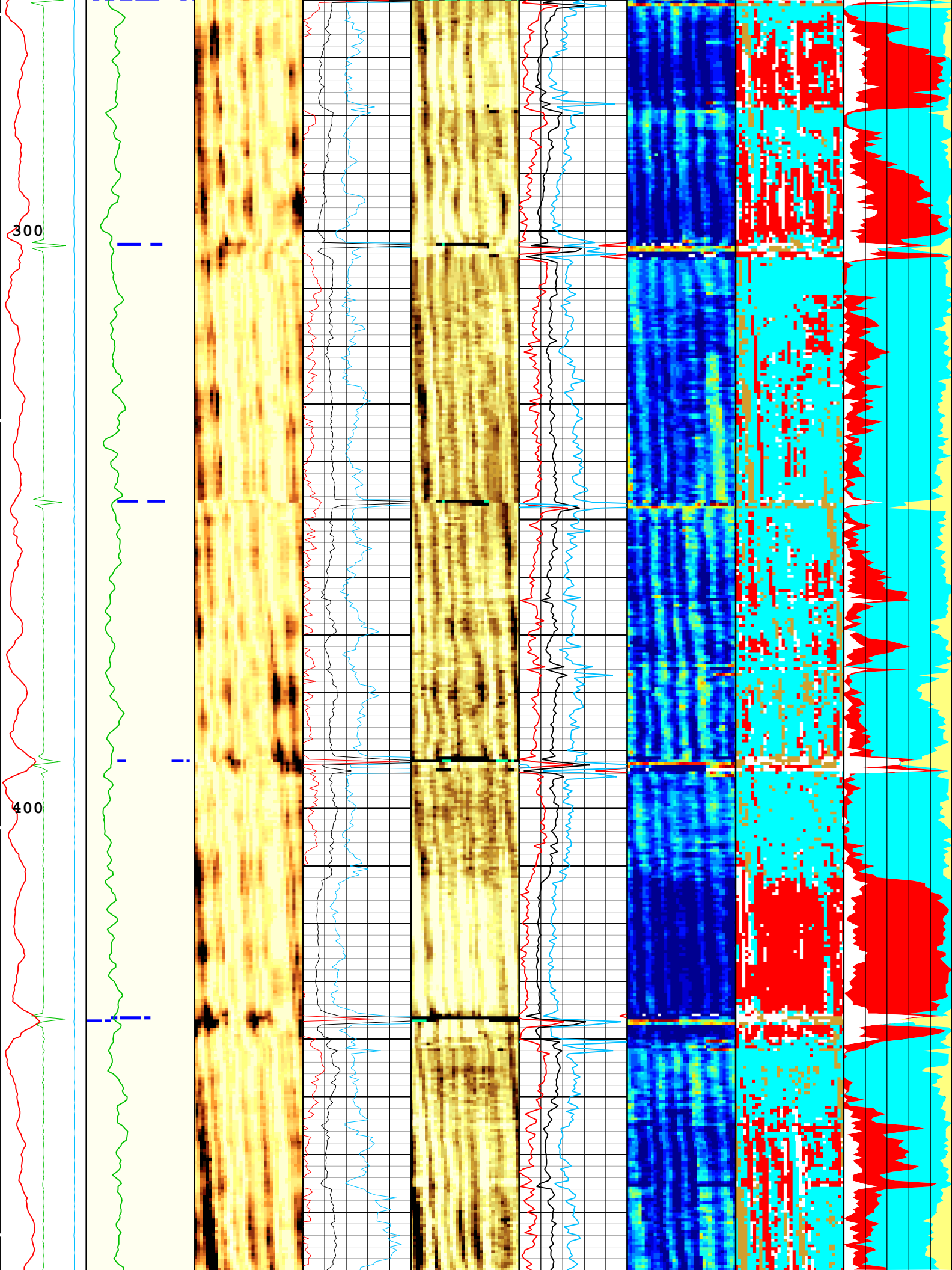
WINLEN Error

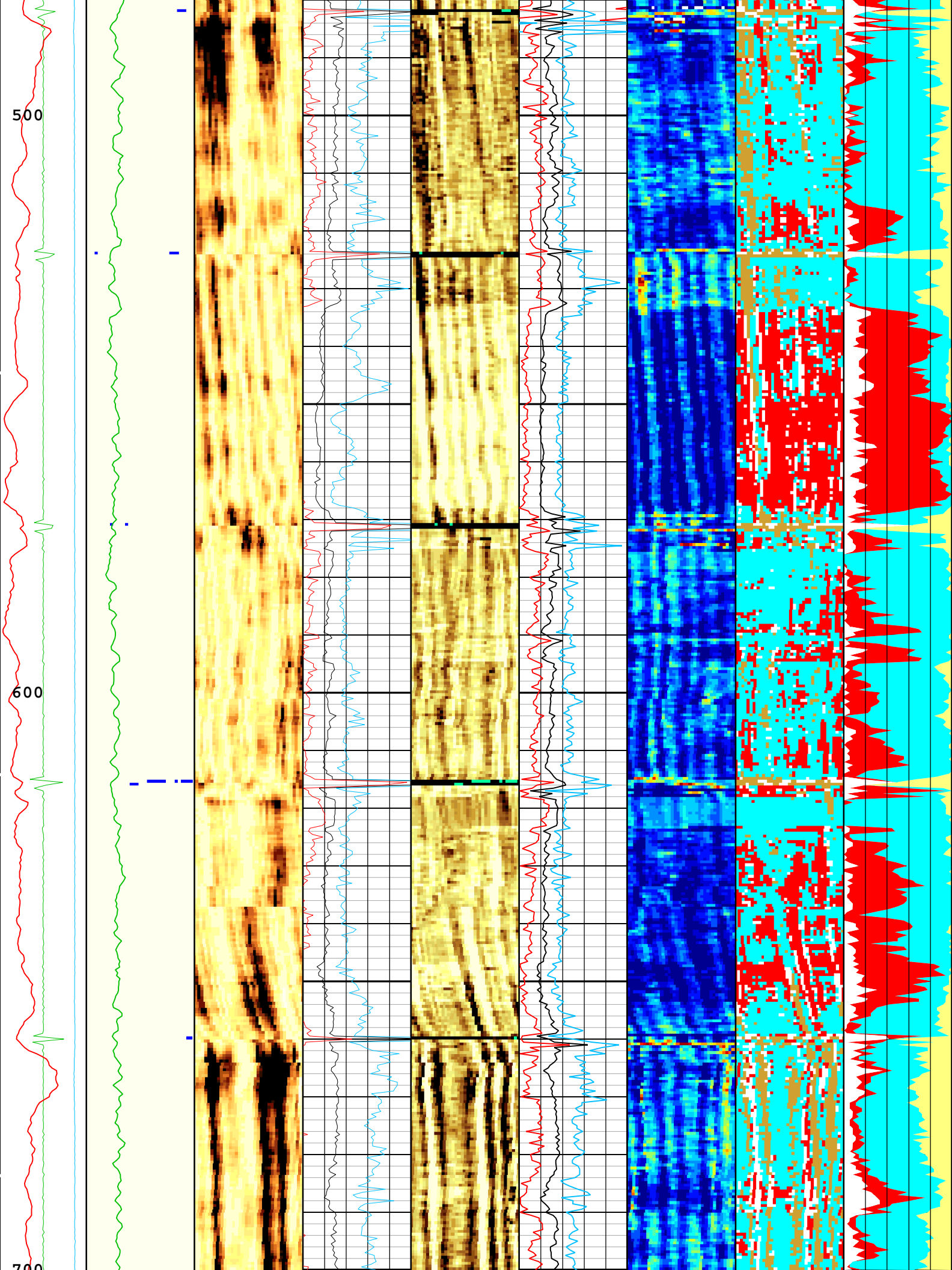
Casing Thickness Error

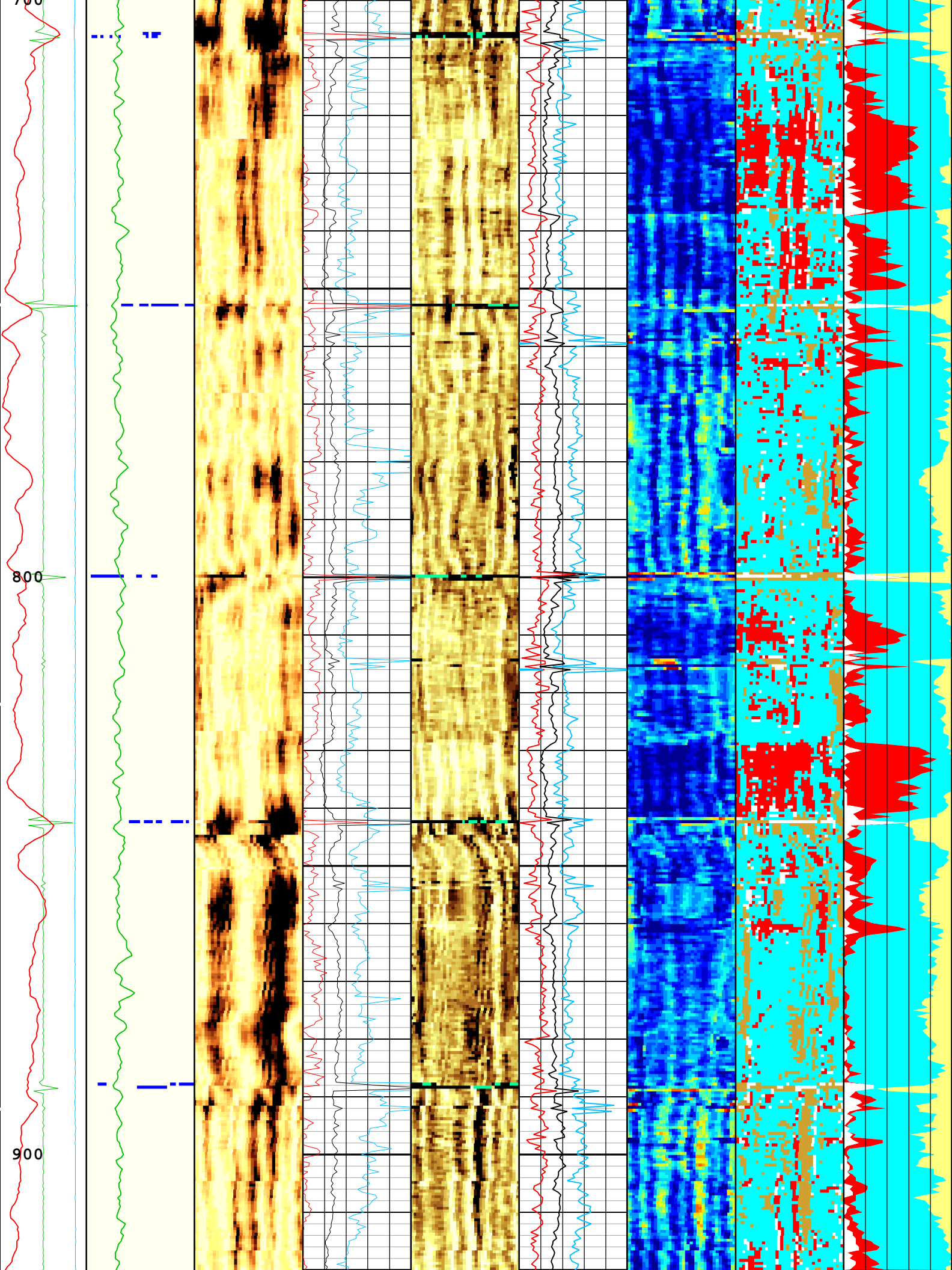
Loop Processing Error



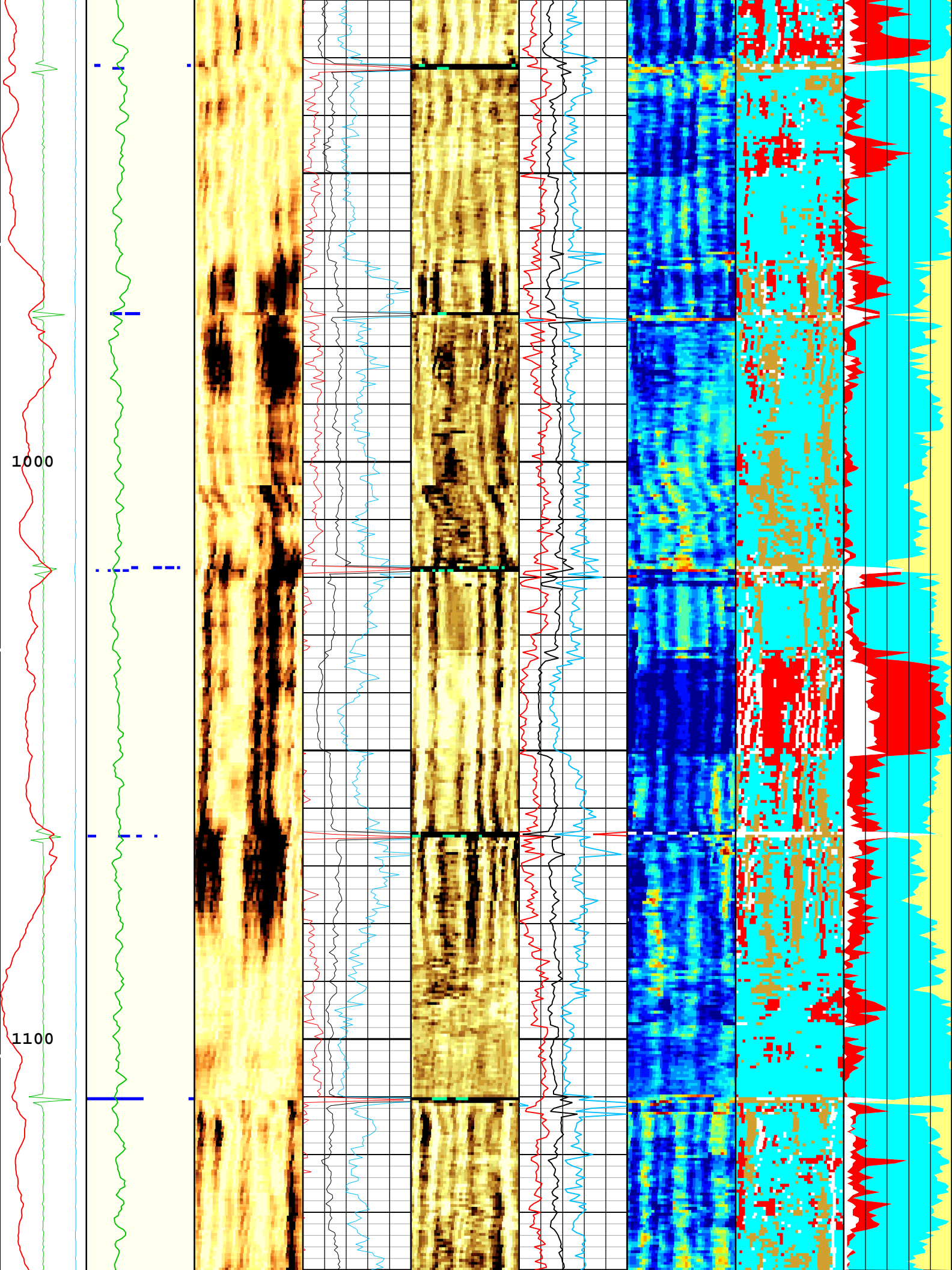


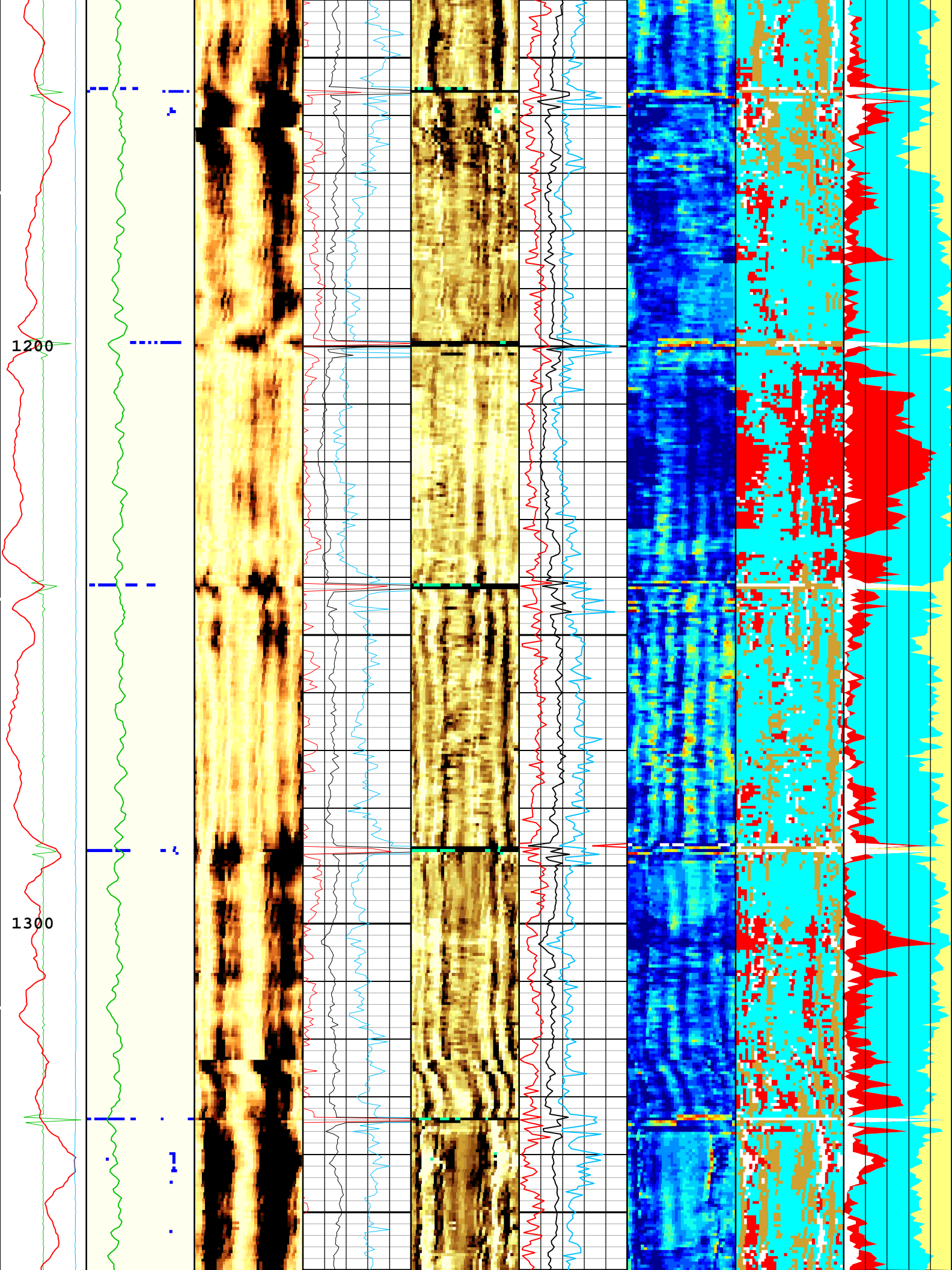


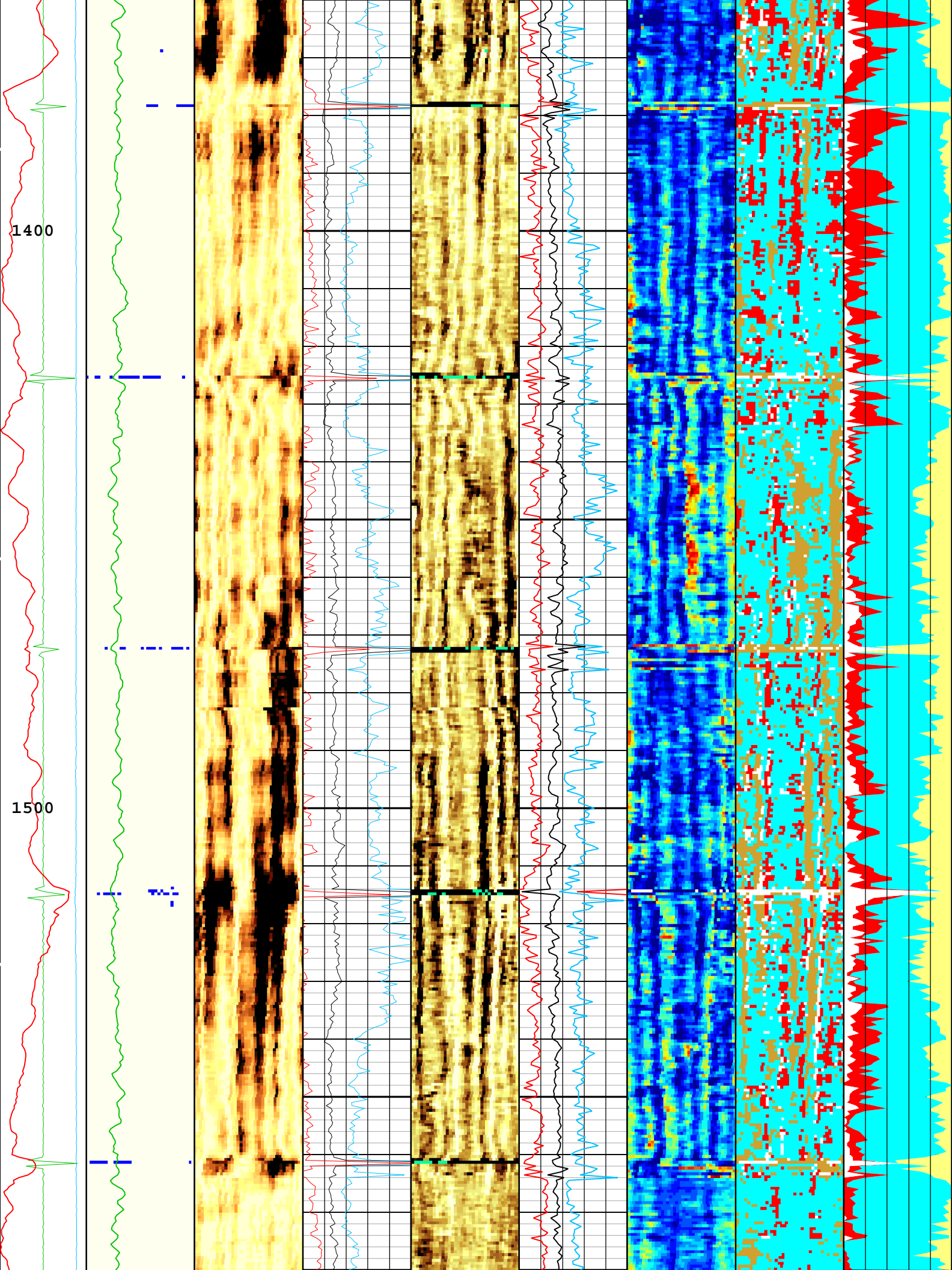




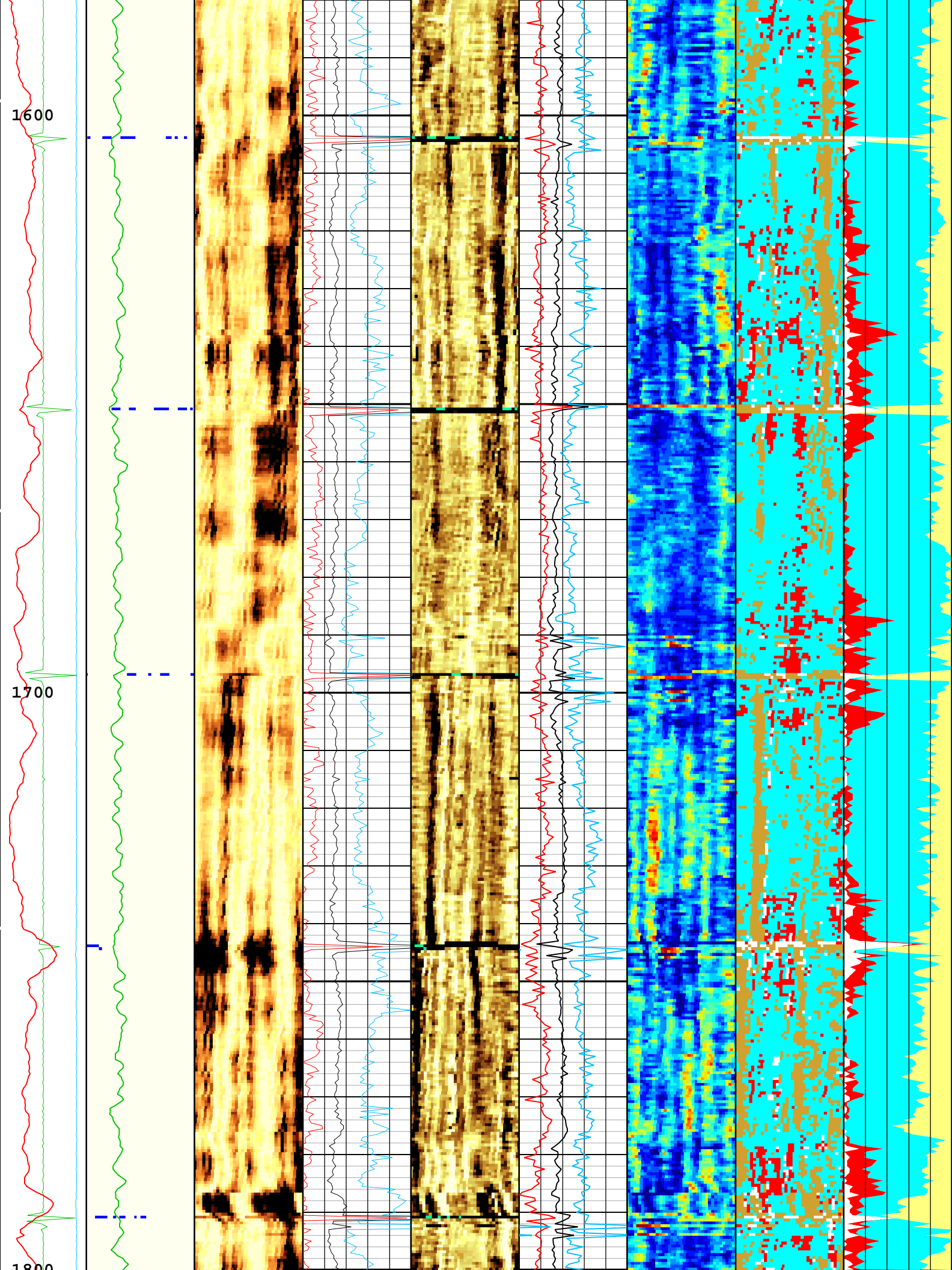


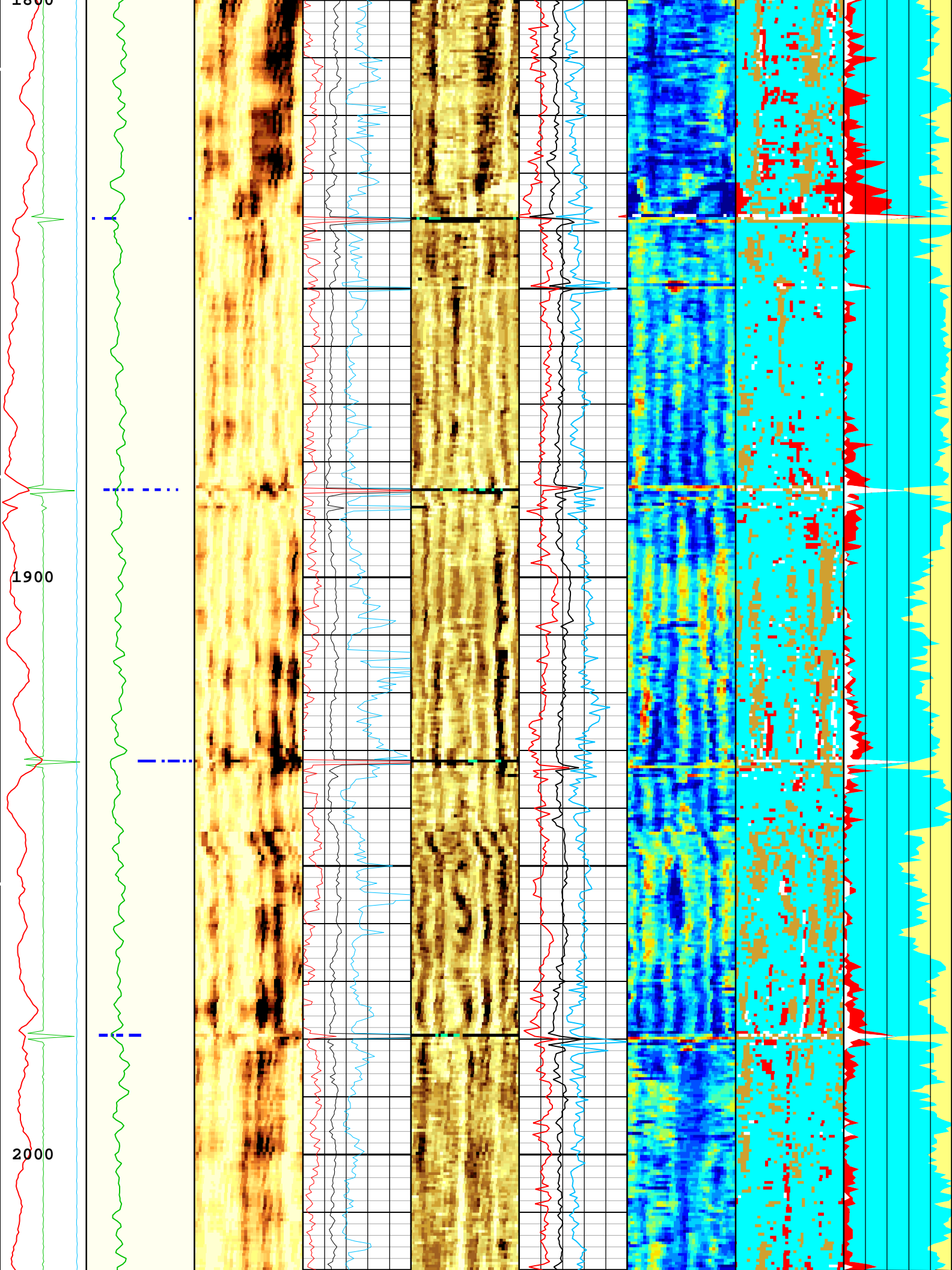


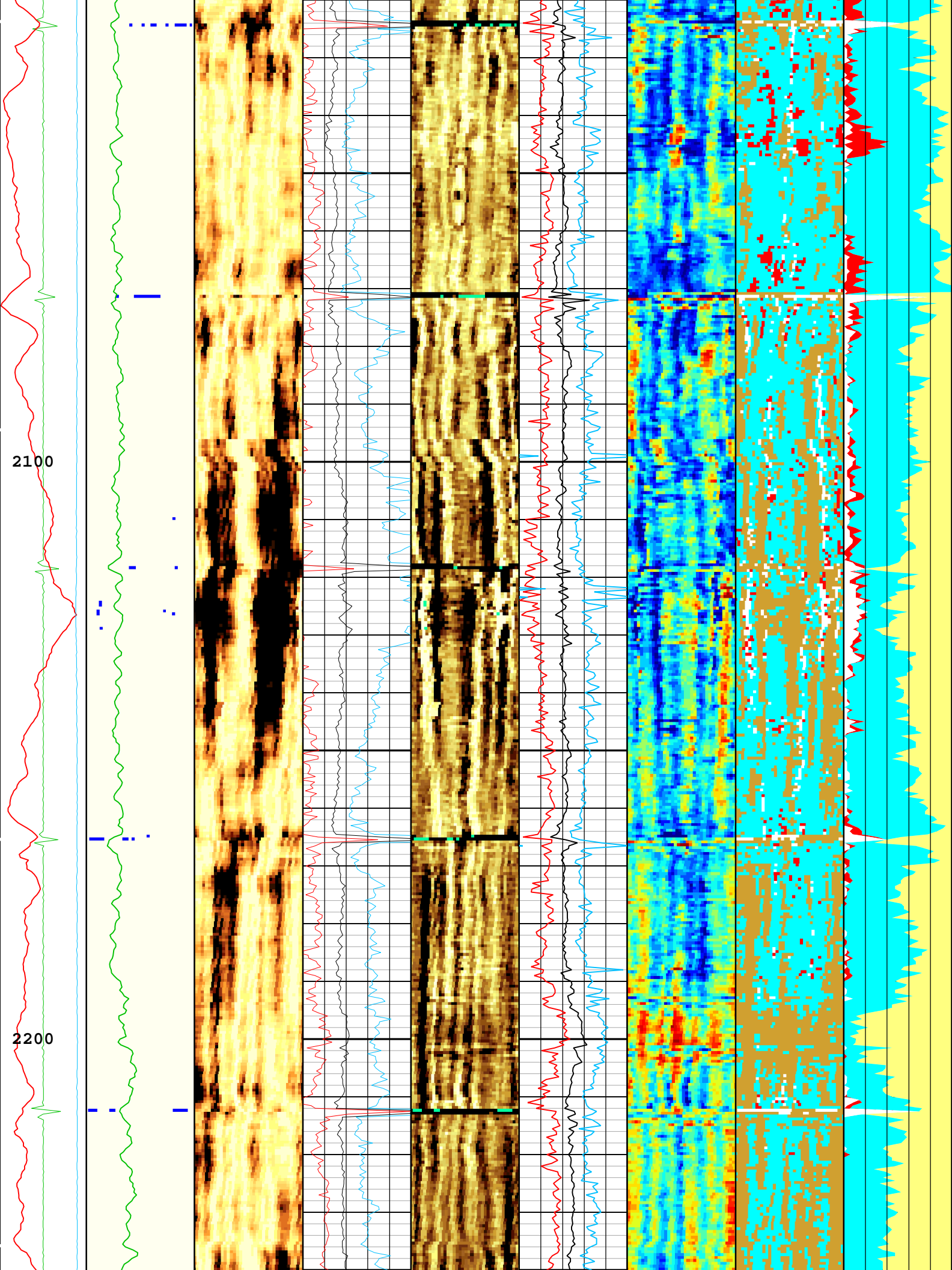


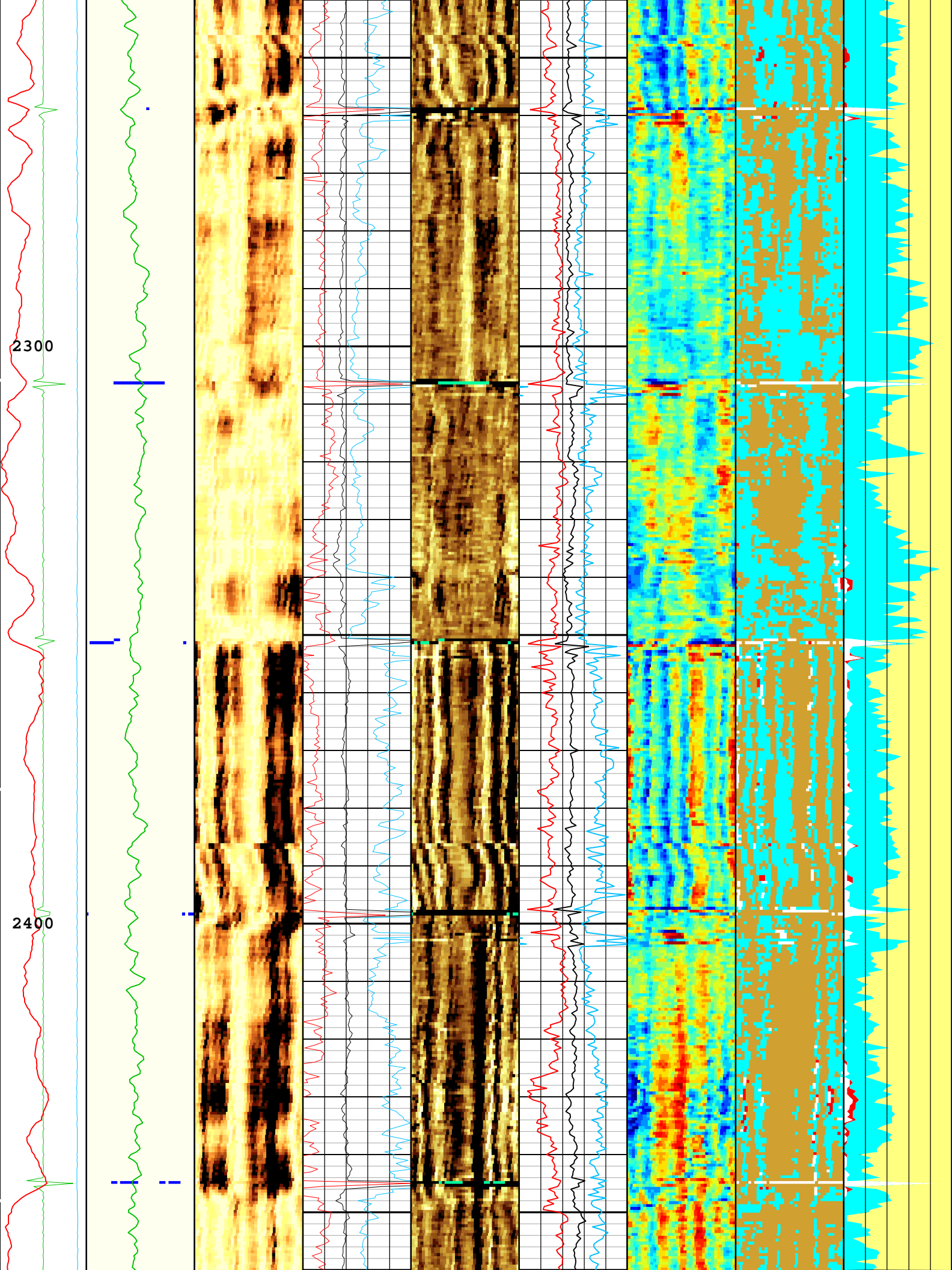




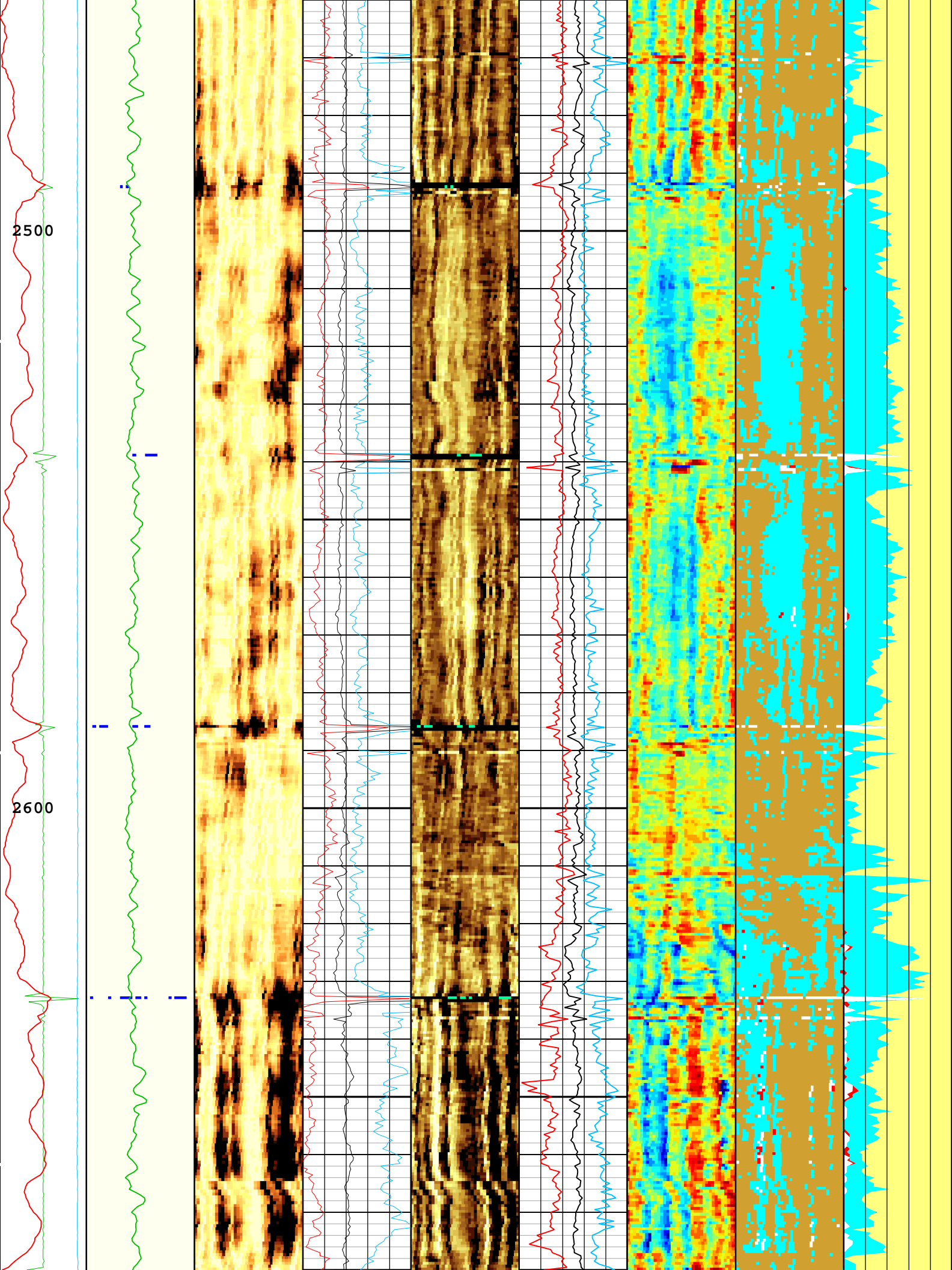


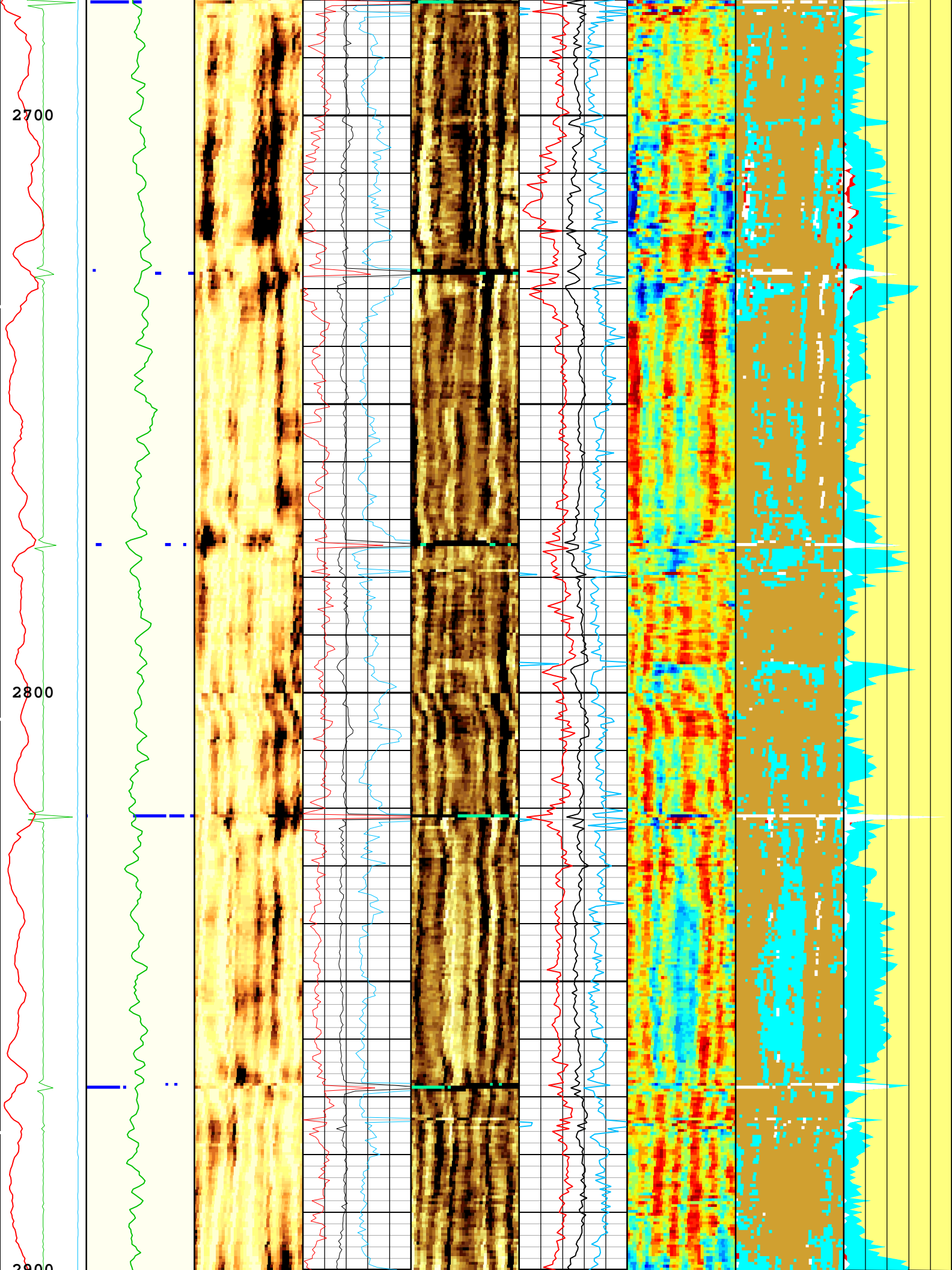


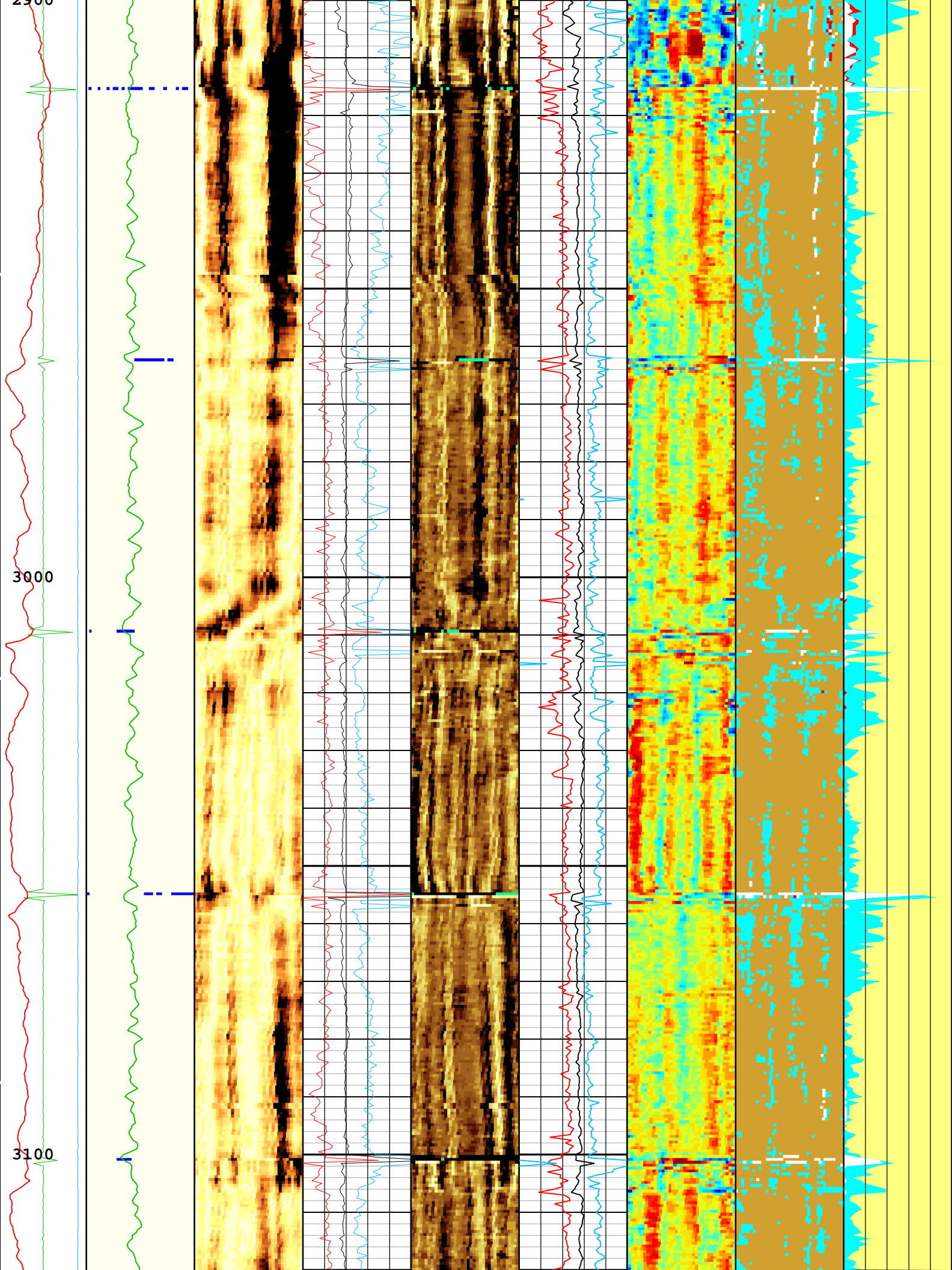


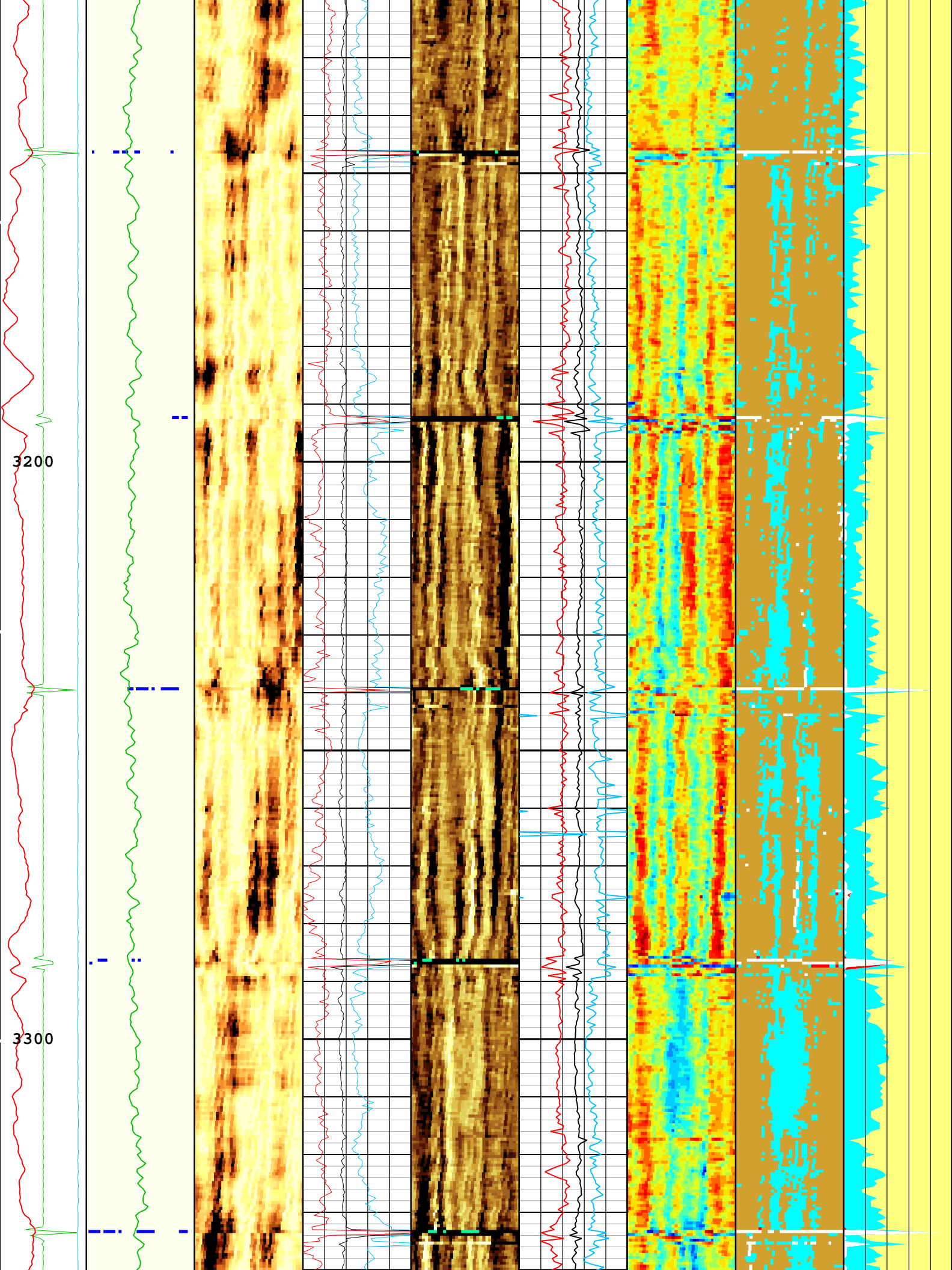




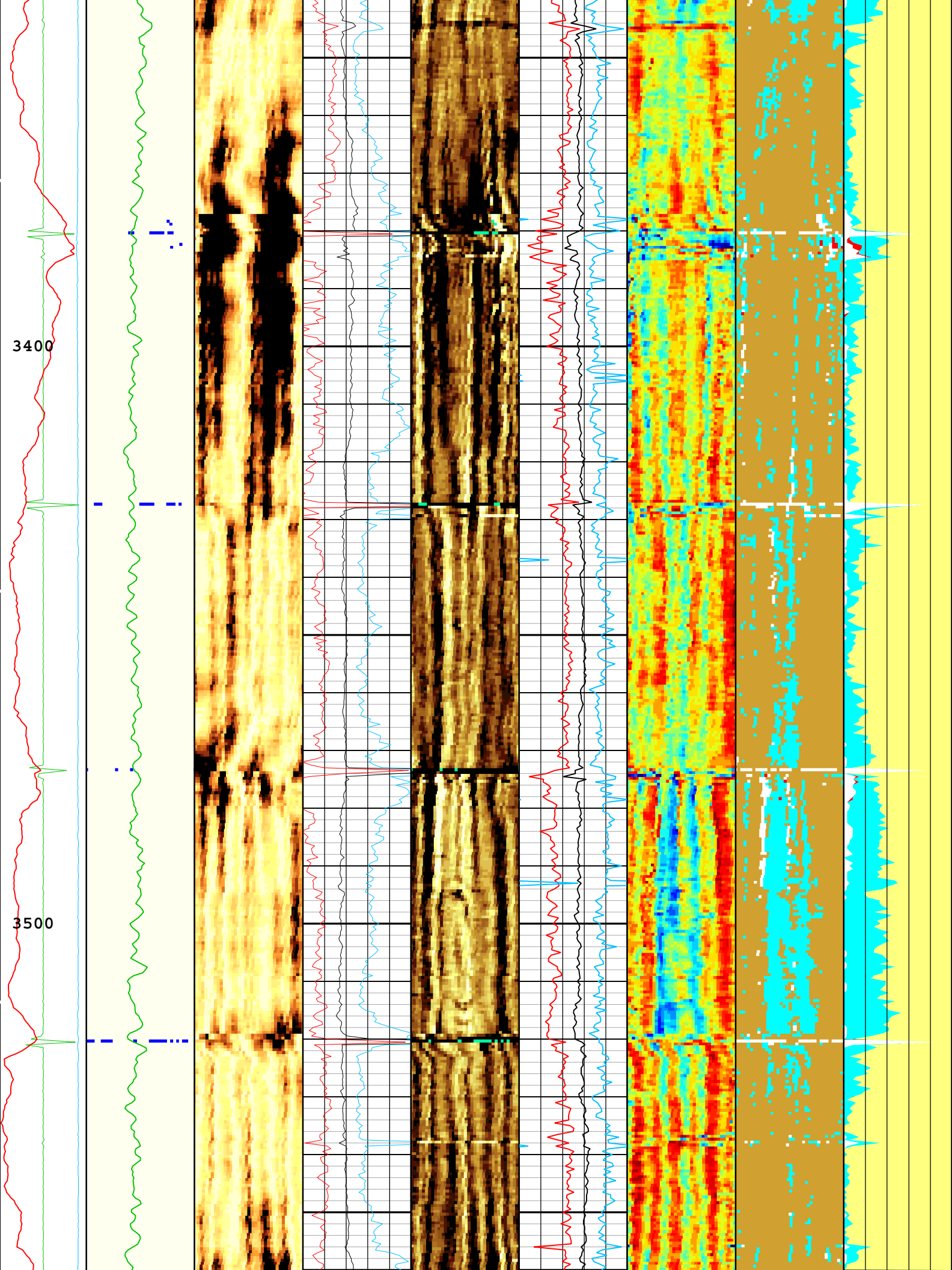


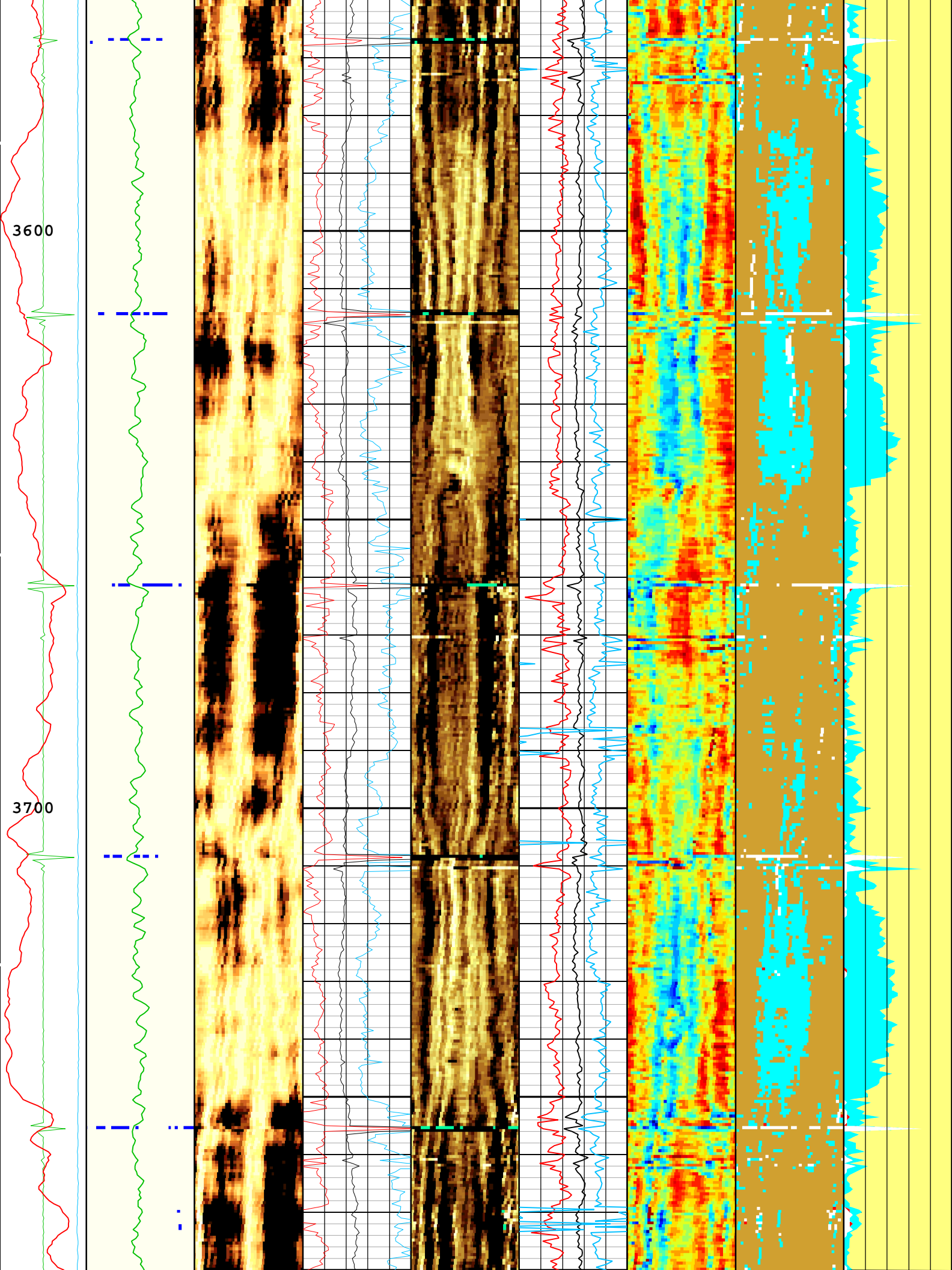


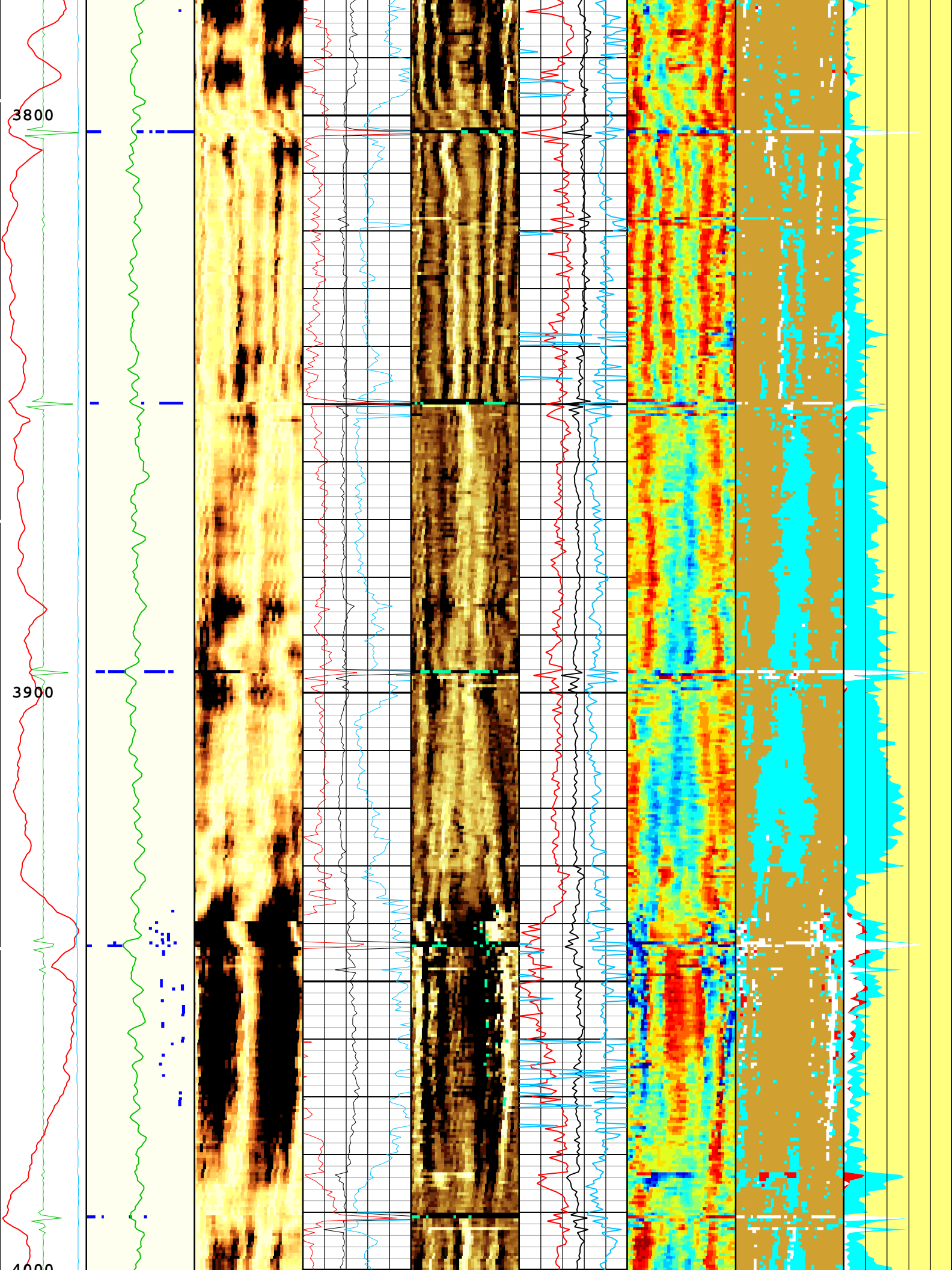


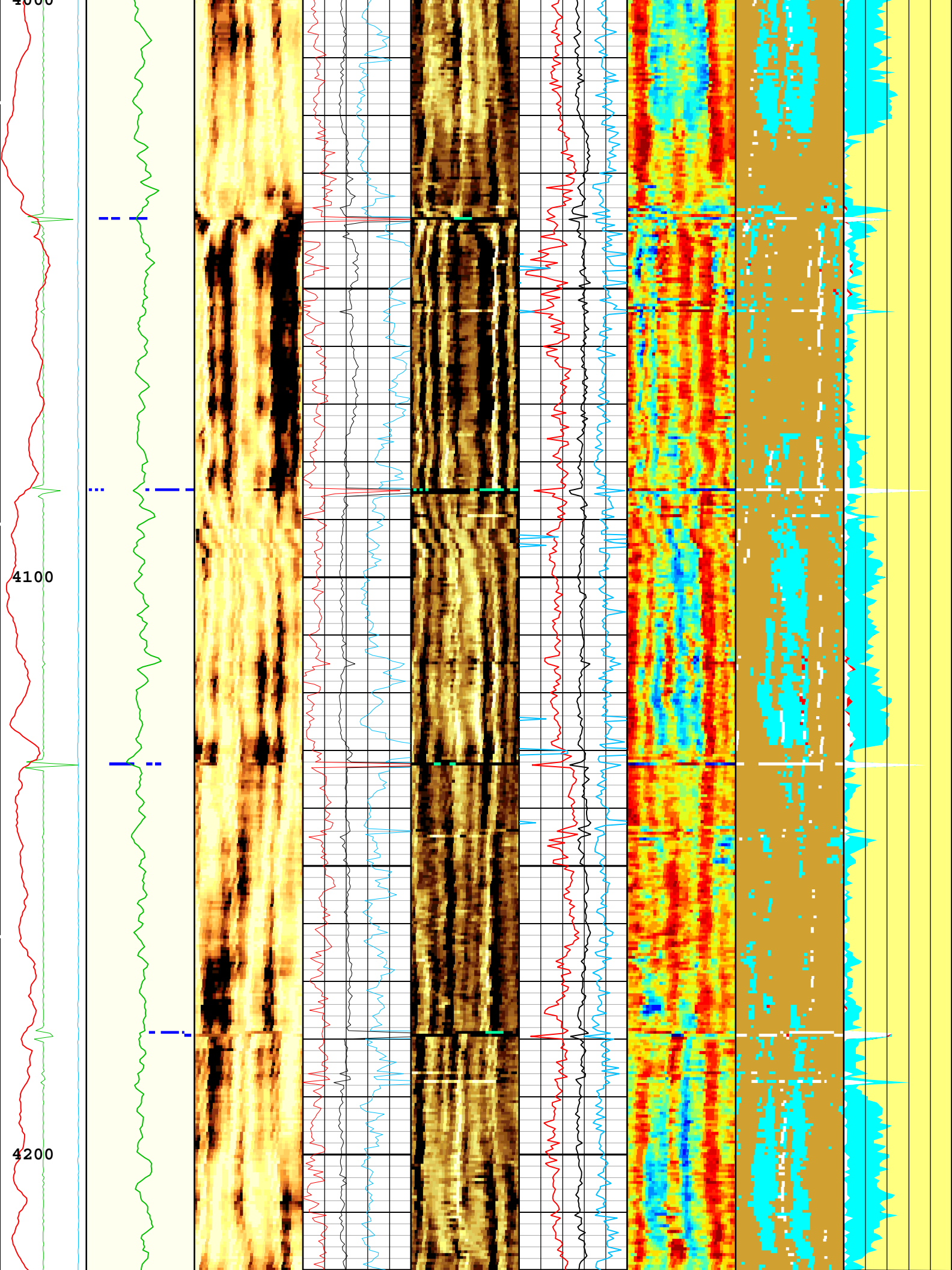




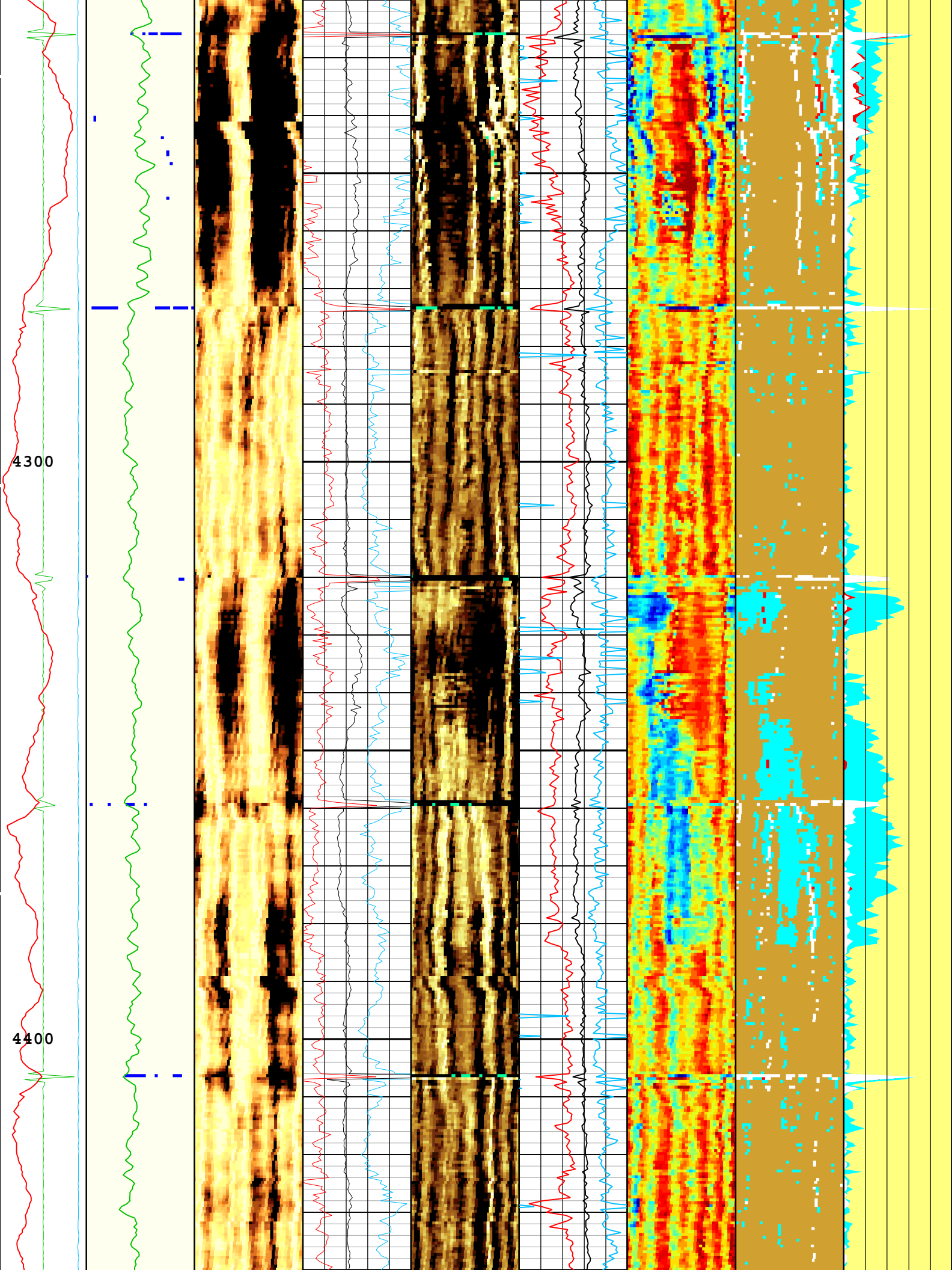


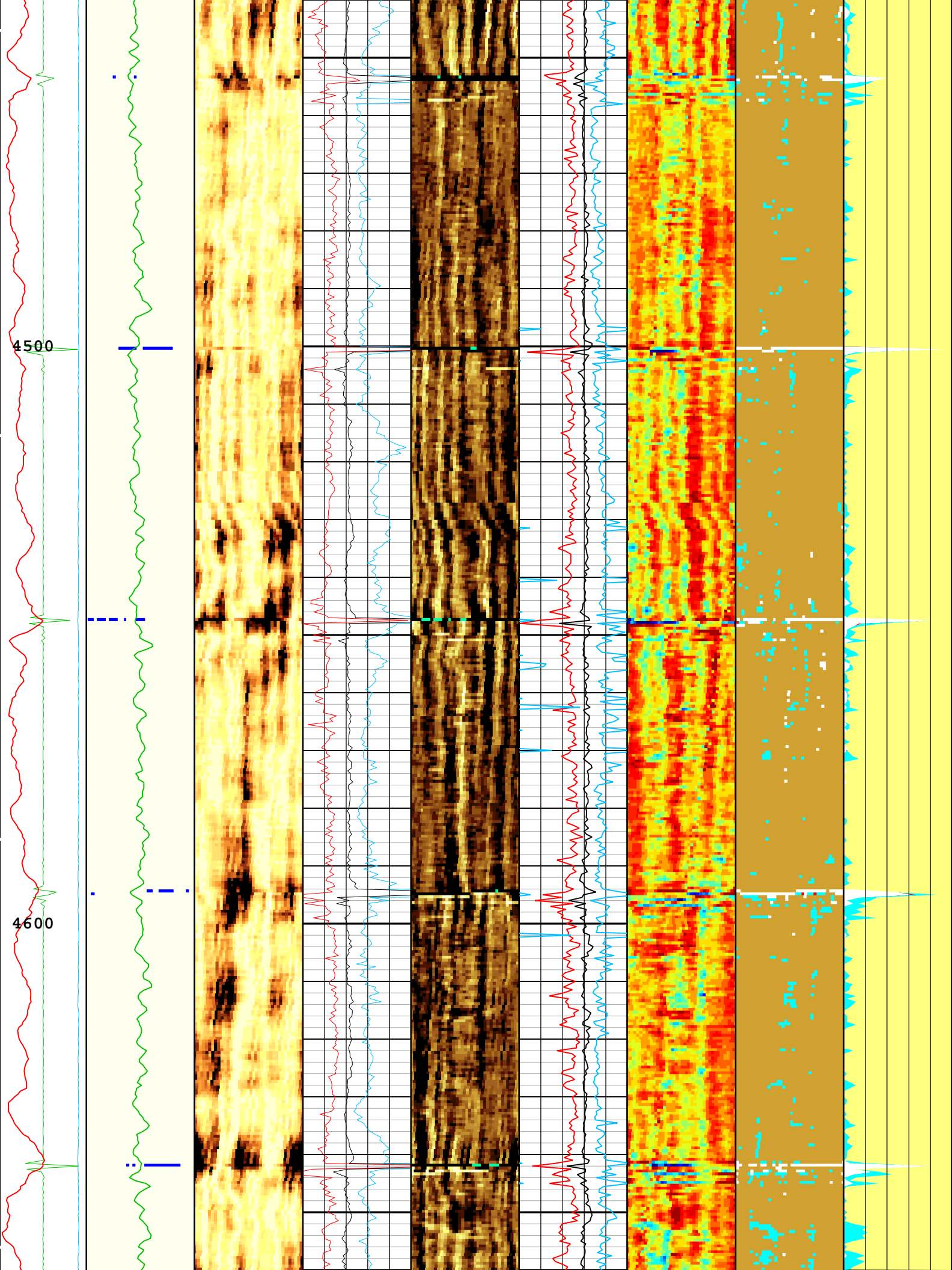


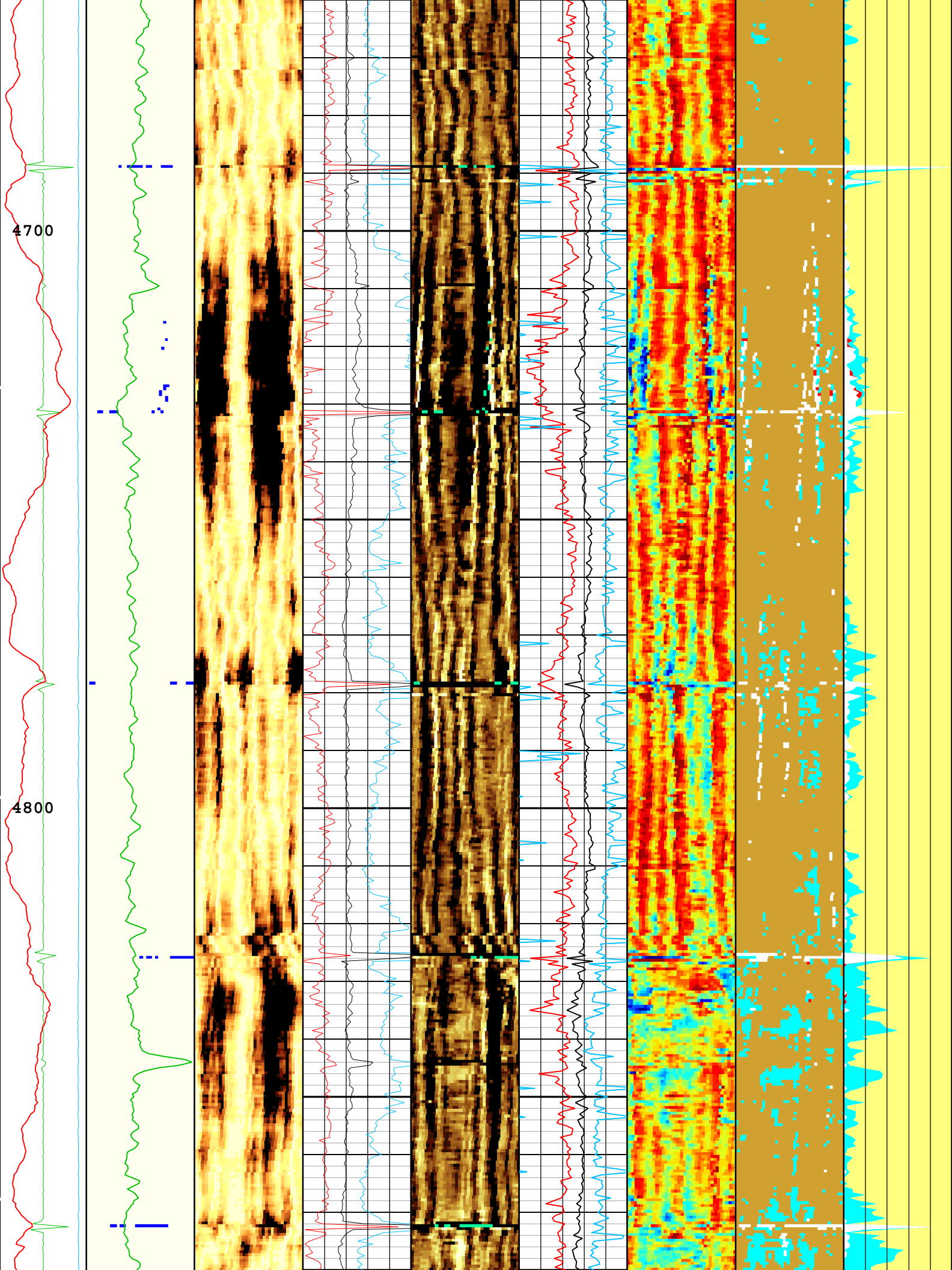


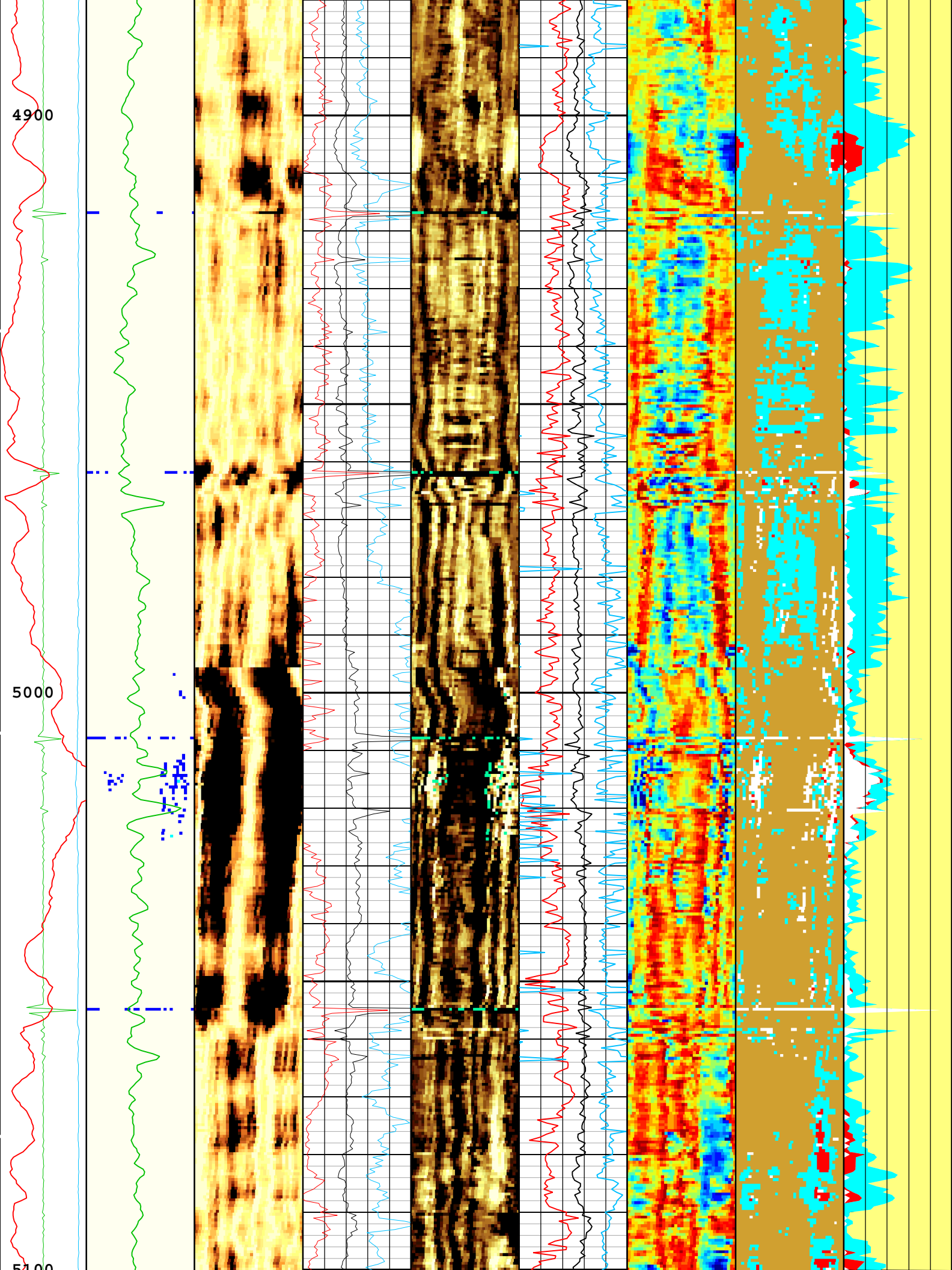




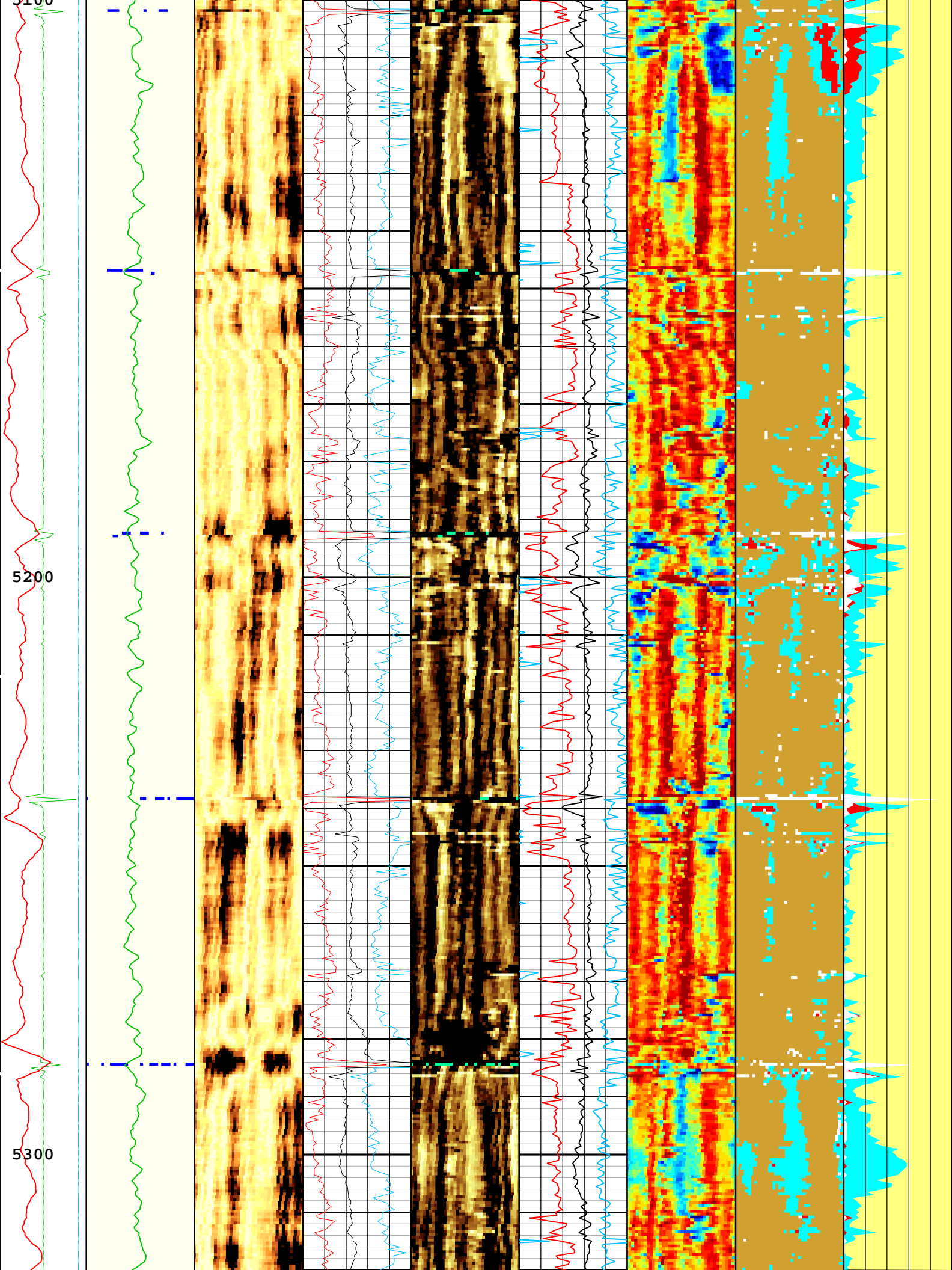


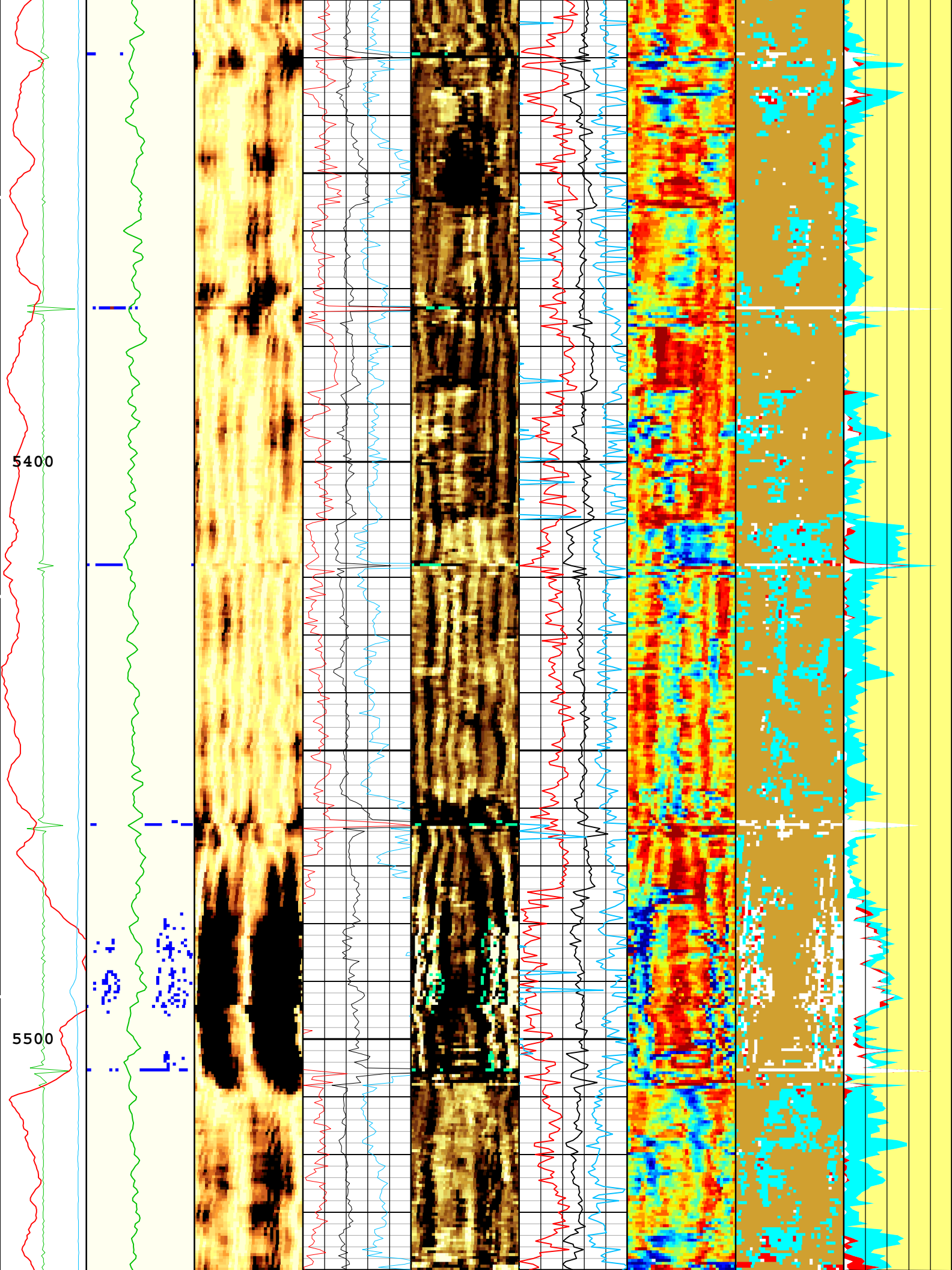


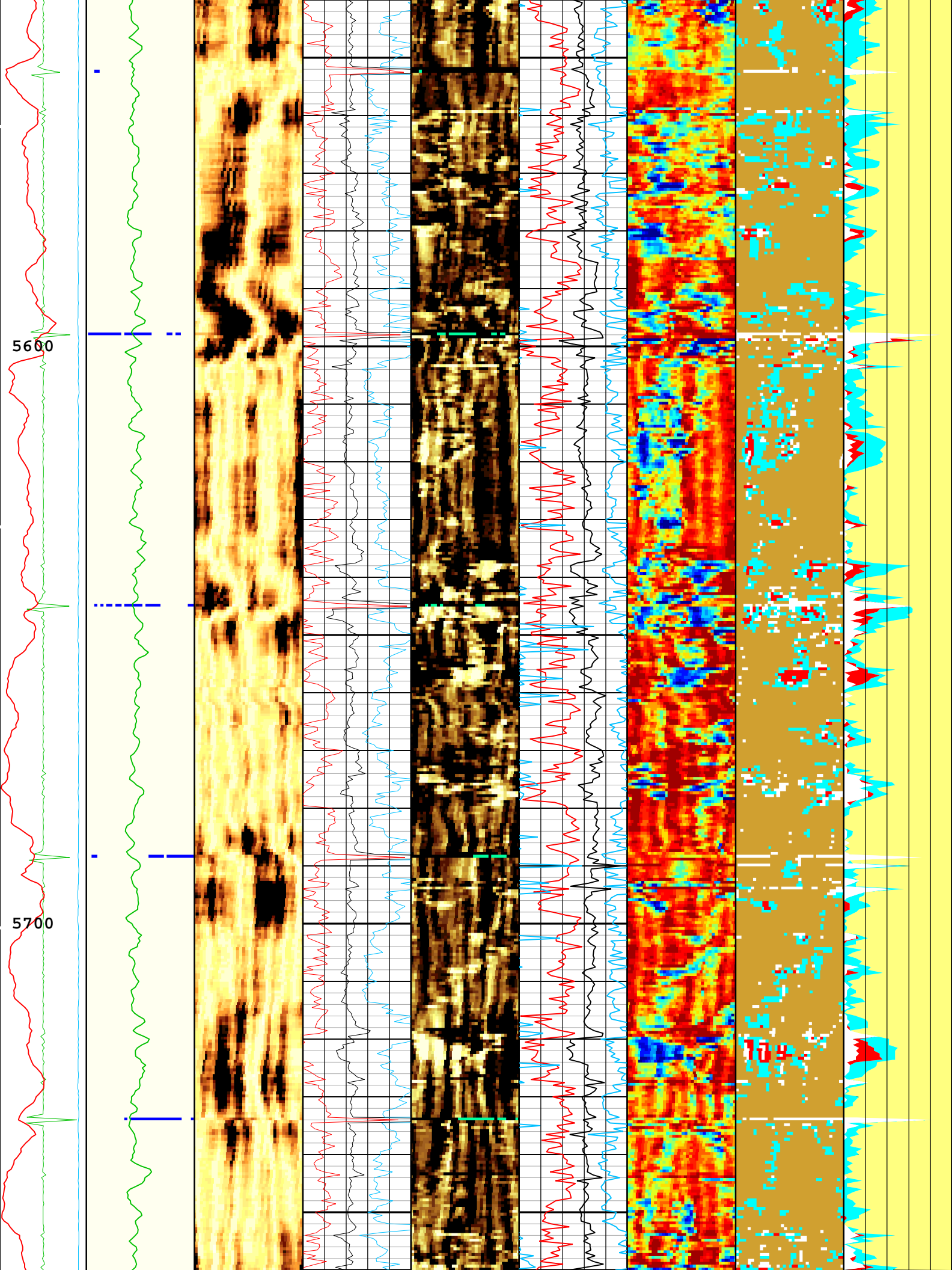


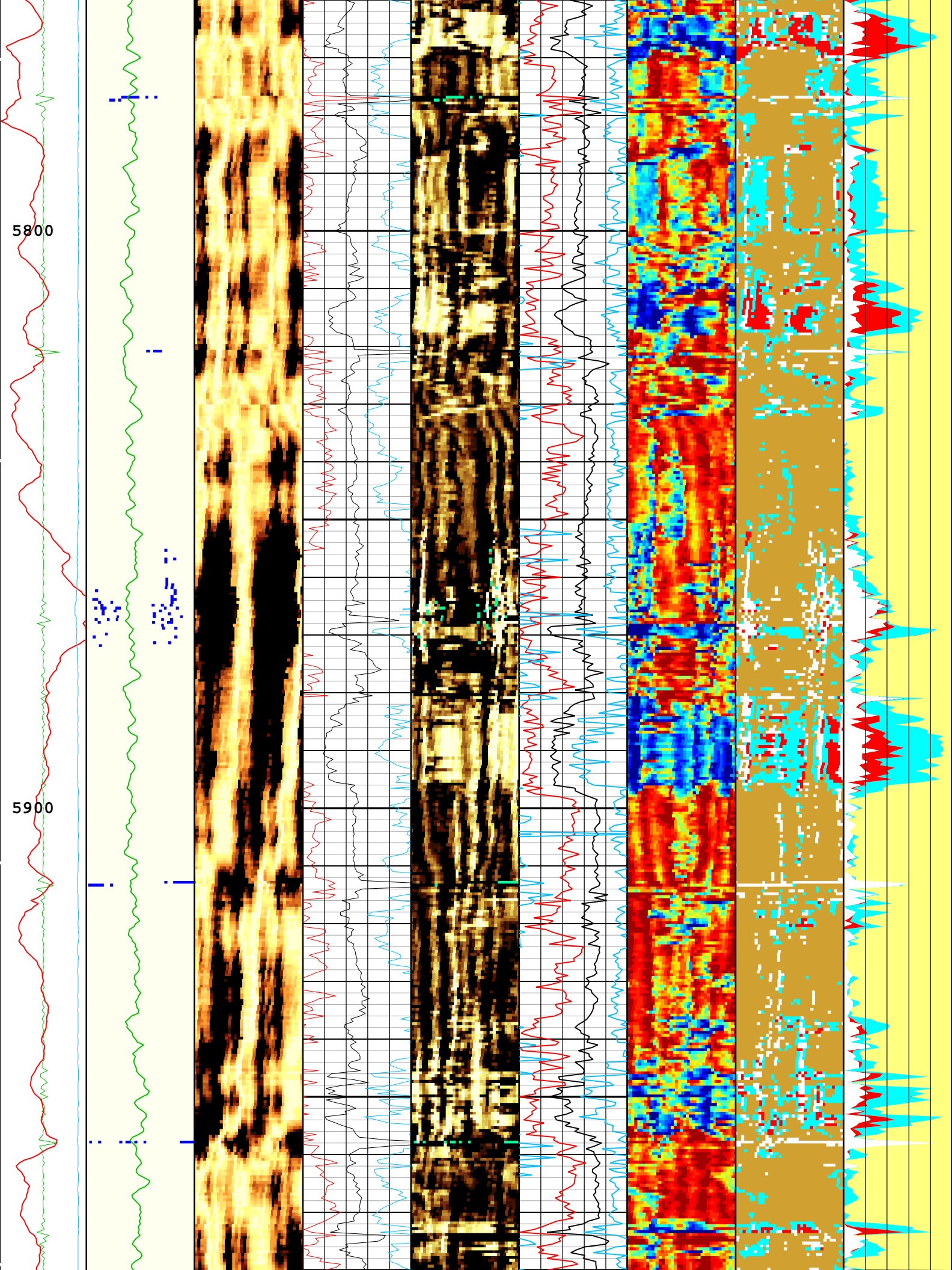




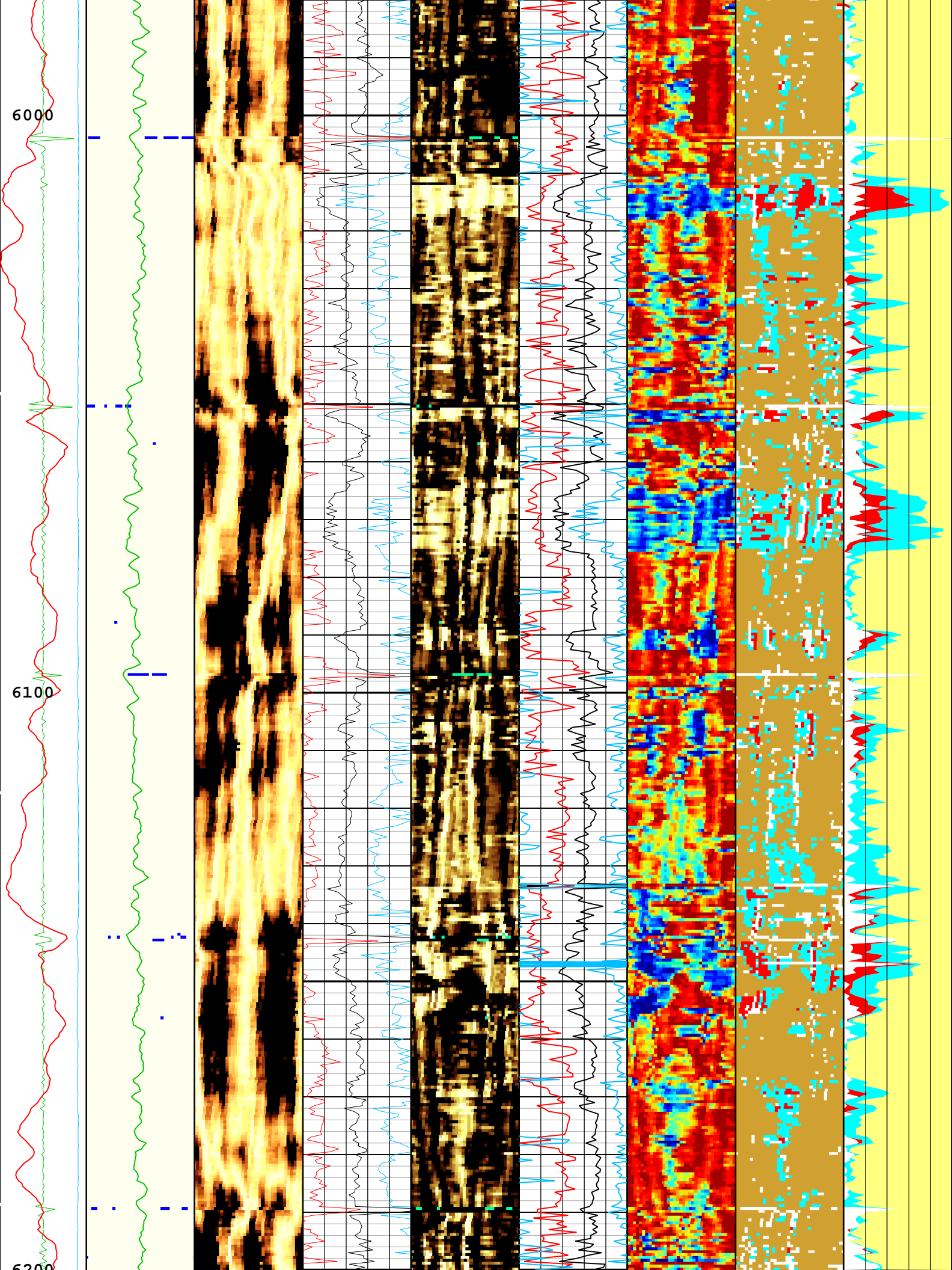


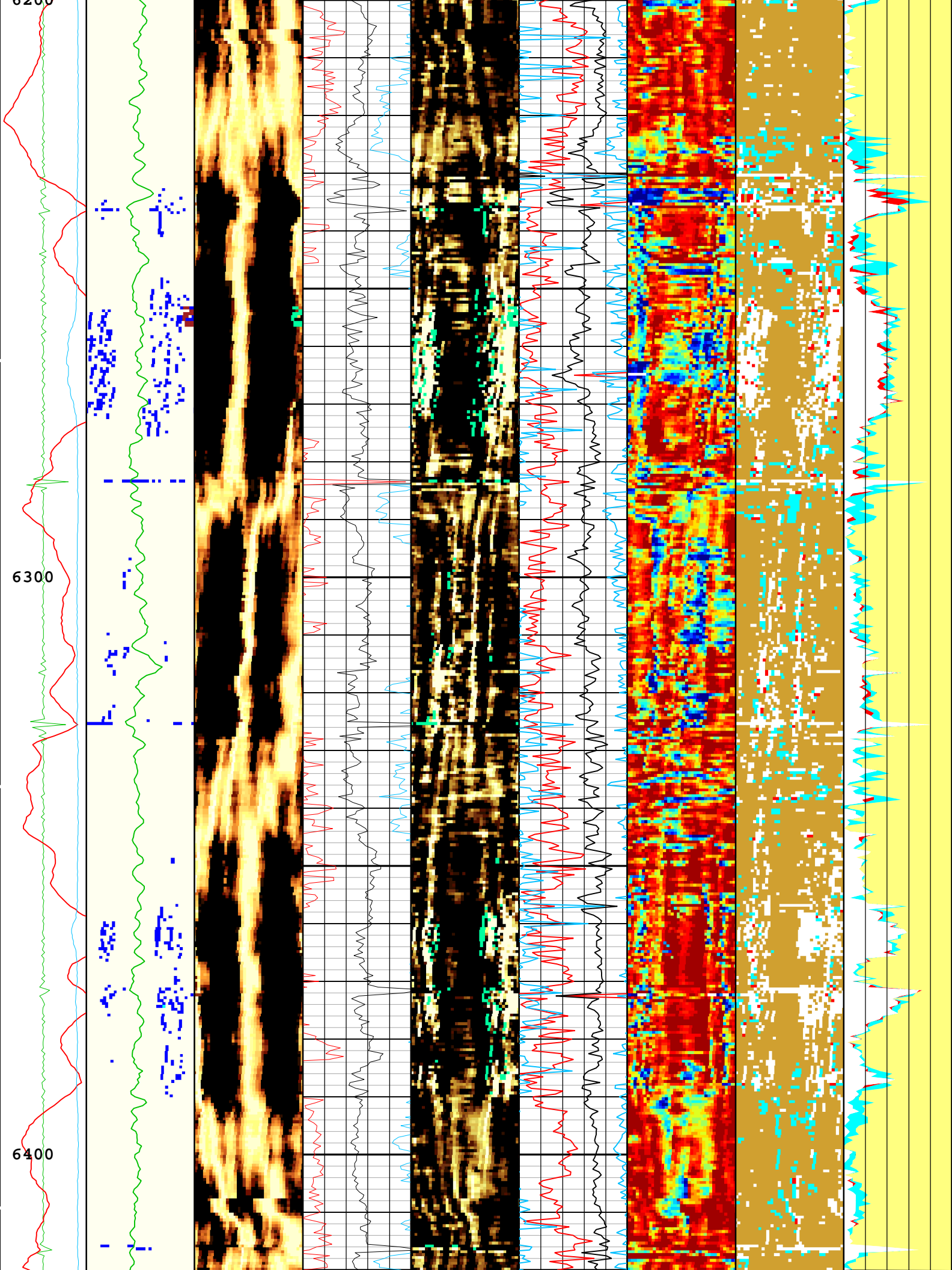


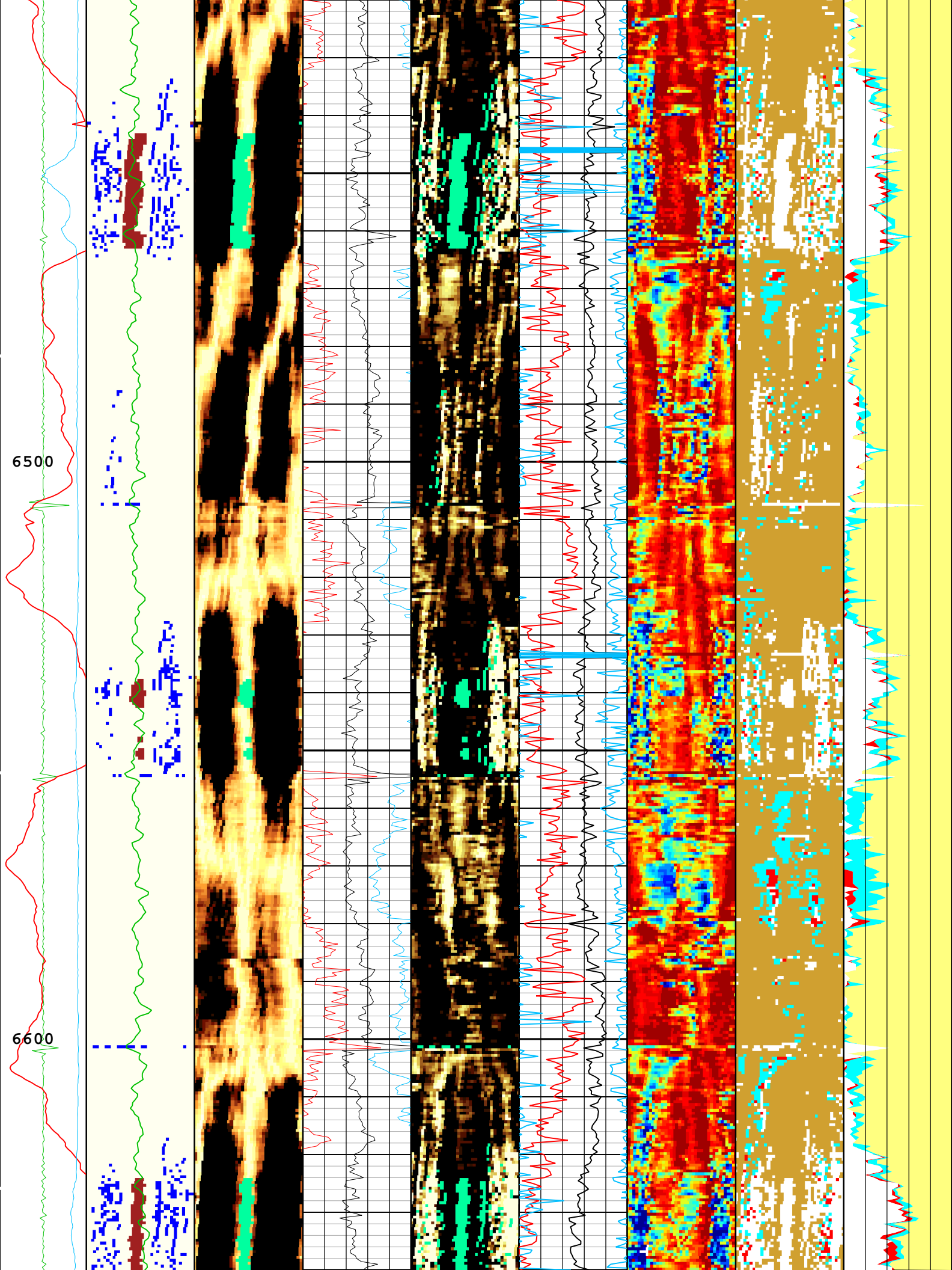


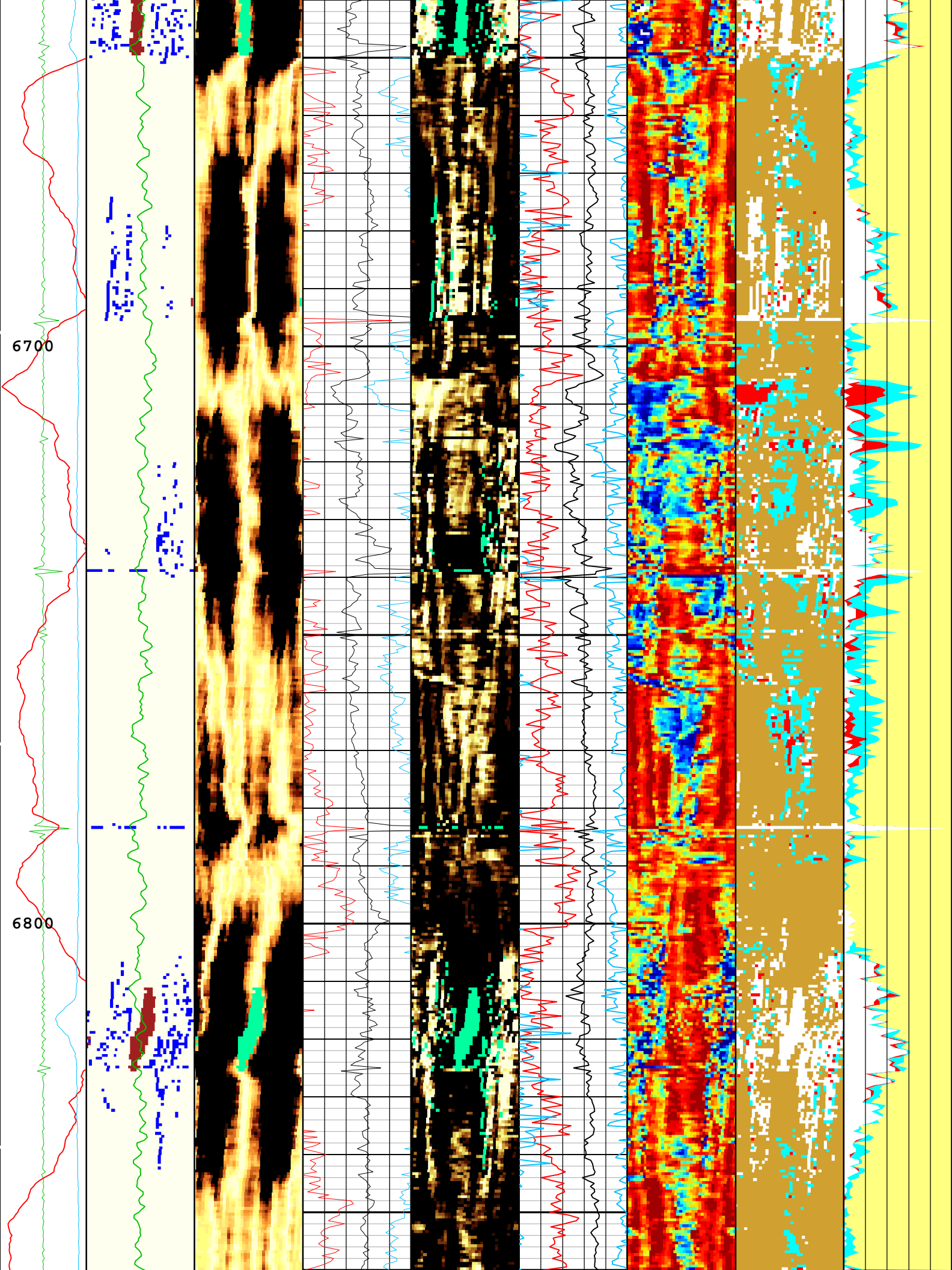




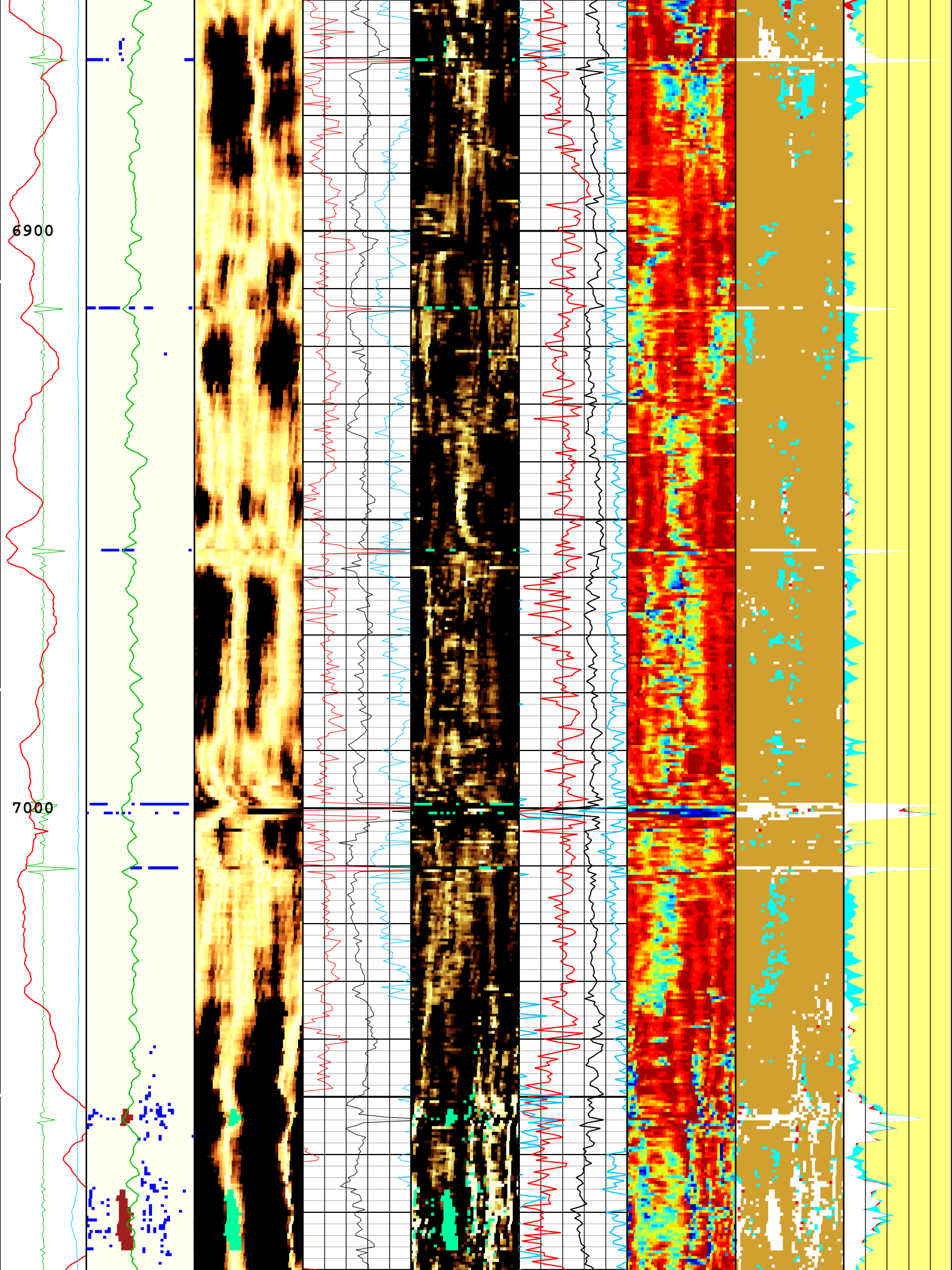


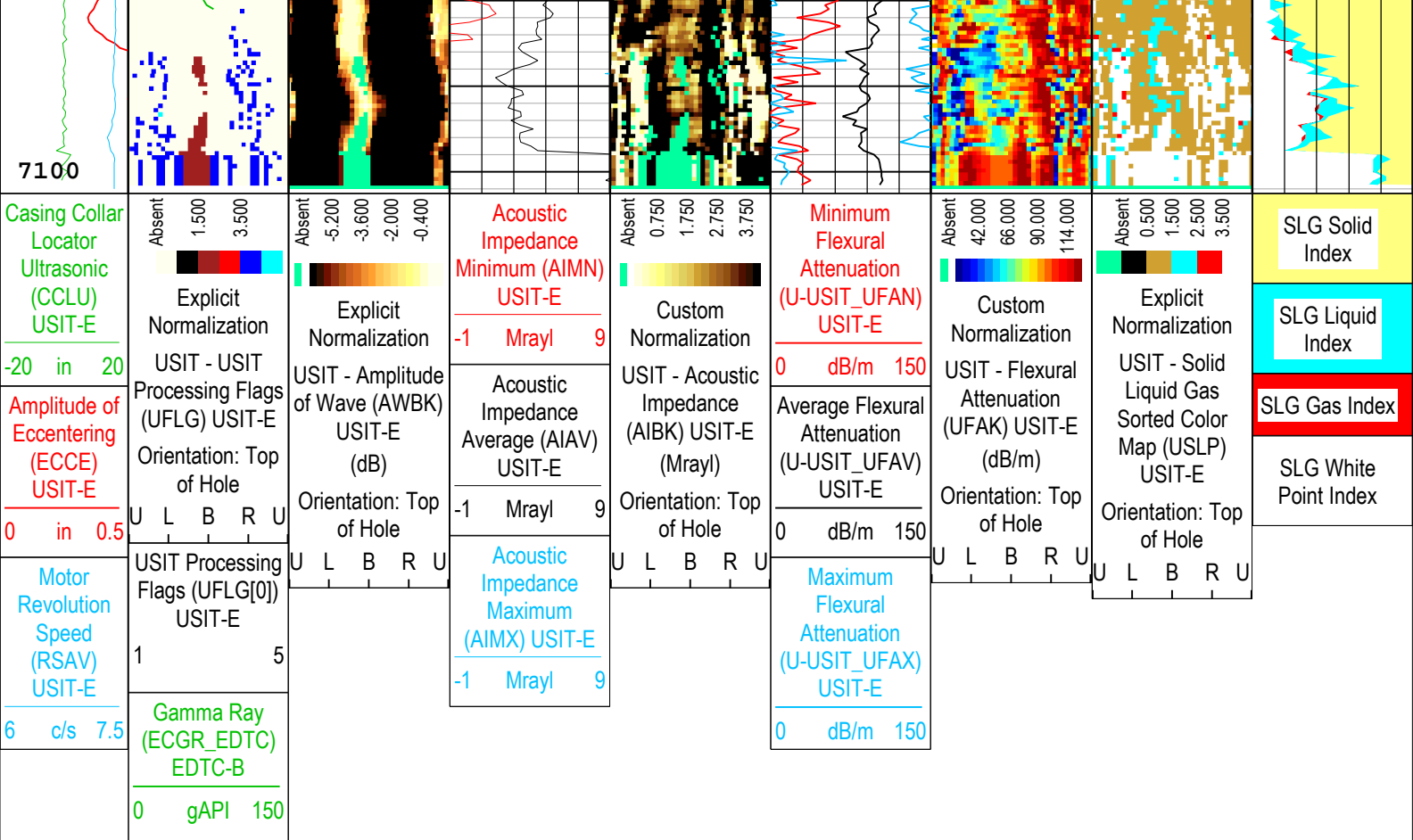












USIT Processing Flags (UFLG[0]) USIT-E

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

TIME\_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Format: Log ( IBC SLG ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 23-Sep-2018 17:17:23

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	15288	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	-30.49	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	1.64	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	55	2165	
BS	8.5	2165	7102.5	
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	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	Time Zoned	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	Time Zoned	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 )
U-USIT_UFWB	137	23-Sep-2018 08:14:57	23-Sep-2018 08:19:32	7103.1	6800.5
U-USIT_UFWB	133.89	23-Sep-2018 08:19:32	23-Sep-2018 09:58:24	6800.5	54.86
U-USIT_UFWE	182.19	23-Sep-2018 08:14:57	23-Sep-2018 08:50:29	7103.1	4621.04
U-USIT_UFWE	168.05	23-Sep-2018 08:50:29	23-Sep-2018 08:51:07	4621.04	4576.12
U-USIT_UFWE	173.94	23-Sep-2018 08:51:07	23-Sep-2018 09:33:13	4576.12	1581.98
U-USIT_UFWE	177.47	23-Sep-2018 09:33:13	23-Sep-2018 09:33:20	1581.98	1572.8
U-USIT_UFWE	189.25	23-Sep-2018 09:33:20	23-Sep-2018 09:33:28	1572.8	1563.56
U-USIT_UFWE	185.72	23-Sep-2018 09:33:28	23-Sep-2018 09:33:40	1563.56	1549.58
U-USIT_UFWE	183.36	23-Sep-2018 09:33:40	23-Sep-2018 09:58:24	1549.58	54.86
U-USIT_UNWB	106	23-Sep-2018 08:14:57	23-Sep-2018 08:19:37	7103.1	6794.85
U-USIT_UNWB	103.26	23-Sep-2018 08:19:37	23-Sep-2018 09:58:24	6794.85	54.86
U-USIT_UNWE	146	23-Sep-2018 08:14:57	23-Sep-2018 08:50:25	7103.1	4625.44
U-USIT_UNWE	136.24	23-Sep-2018 08:50:25	23-Sep-2018 09:26:59	4625.44	2024.53
U-USIT_UNWE	140.96	23-Sep-2018 09:26:59	23-Sep-2018 09:27:09	2024.53	2013.08
U-USIT_UNWE	145.67	23-Sep-2018 09:27:09	23-Sep-2018 09:27:46	2013.08	1969.26
U-USIT_UNWE	142.13	23-Sep-2018 09:27:46	23-Sep-2018 09:44:10	1969.26	809.58
U-USIT_UNWE	145.67	23-Sep-2018 09:44:10	23-Sep-2018 09:58:24	809.58	54.86
WINB	31.88	23-Sep-2018 08:14:57	23-Sep-2018 08:24:31	7103.1	6443.36
WINB	24.76	23-Sep-2018 08:24:31	23-Sep-2018 08:25:46	6443.36	6352.62
WINB	27.35	23-Sep-2018 08:25:46	23-Sep-2018 08:27:24	6352.62	6231.89
WINB	24.76	23-Sep-2018 08:27:24	23-Sep-2018 08:28:44	6231.89	6134.83
WINB	27.35	23-Sep-2018 08:28:44	23-Sep-2018 09:58:24	6134.83	54.86
WINE	71.88	23-Sep-2018 08:14:57	23-Sep-2018 08:23:15	7103.1	6535.26
WINE	77.45	23-Sep-2018 08:23:15	23-Sep-2018 08:24:28	6535.26	6447.46
WINE	73.13	23-Sep-2018 08:24:28	23-Sep-2018 08:25:42	6447.46	6358.27
WINE	77.45	23-Sep-2018 08:25:42	23-Sep-2018 08:27:03	6358.27	6257.72
WINE	68.81	23-Sep-2018 08:27:03	23-Sep-2018 08:27:29	6257.72	6226.08
WINE	71.41	23-Sep-2018 08:27:29	23-Sep-2018 08:27:38	6226.08	6214.67
WINE	74	23-Sep-2018 08:27:38	23-Sep-2018 08:28:33	6214.67	6148.32
WINE	78.32	23-Sep-2018 08:28:33	23-Sep-2018 08:35:08	6148.32	5691.46

WINE	76.22	23-Sep-2018 08:35:08	23-Sep-2018 09:58:24	5691.46	54.86
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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	54.86 ft	7103.10 ft	23-Sep-2018 8:14:57 AM	23-Sep-2018 9:58:24 AM	ON	6.46 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources Operating LLC

Well:Davis 1P-9H-G266

ONE: Log[4]:Up:S003

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 17:18:04

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 ] - :

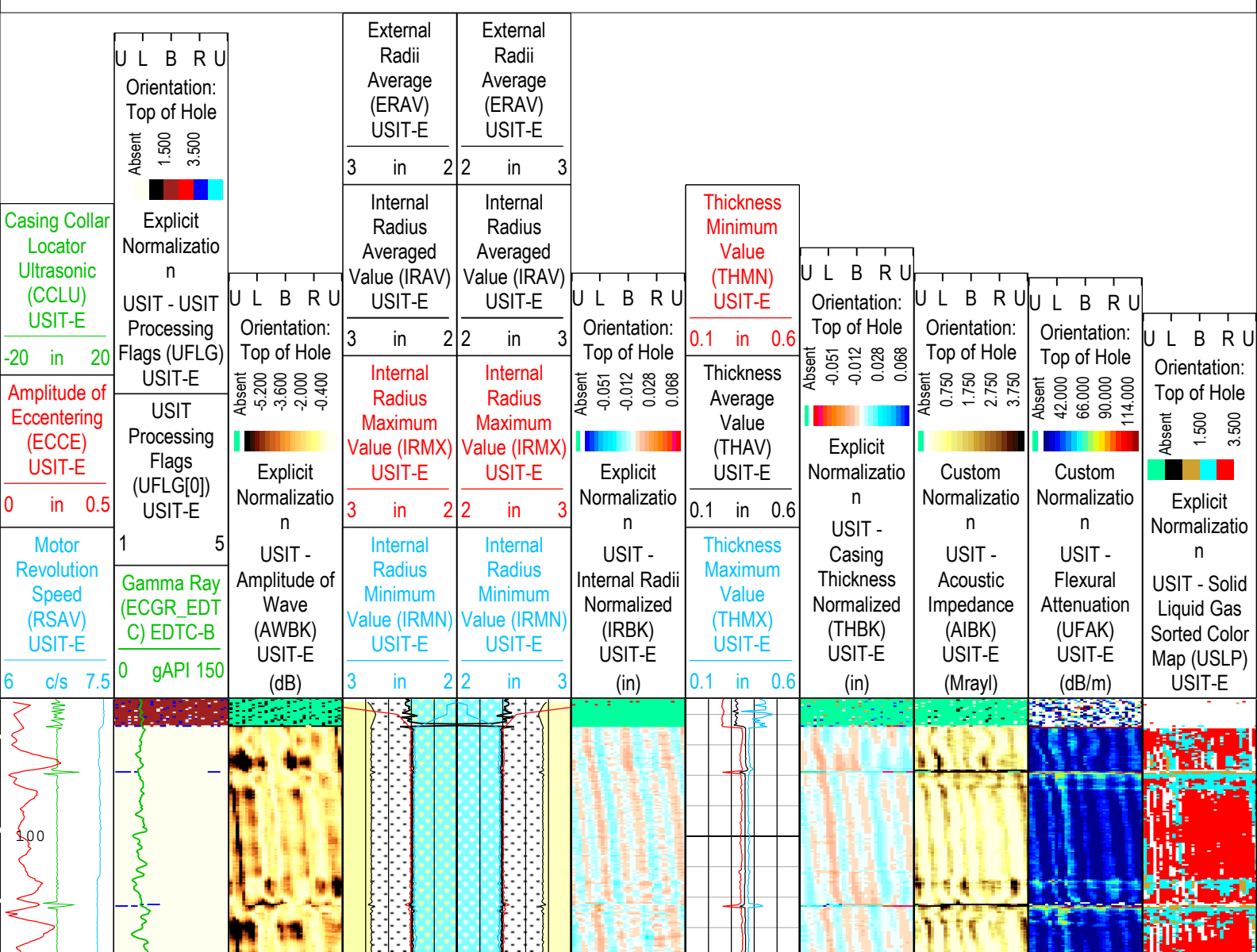
UTIM Error

Pulse Origin Not Detected

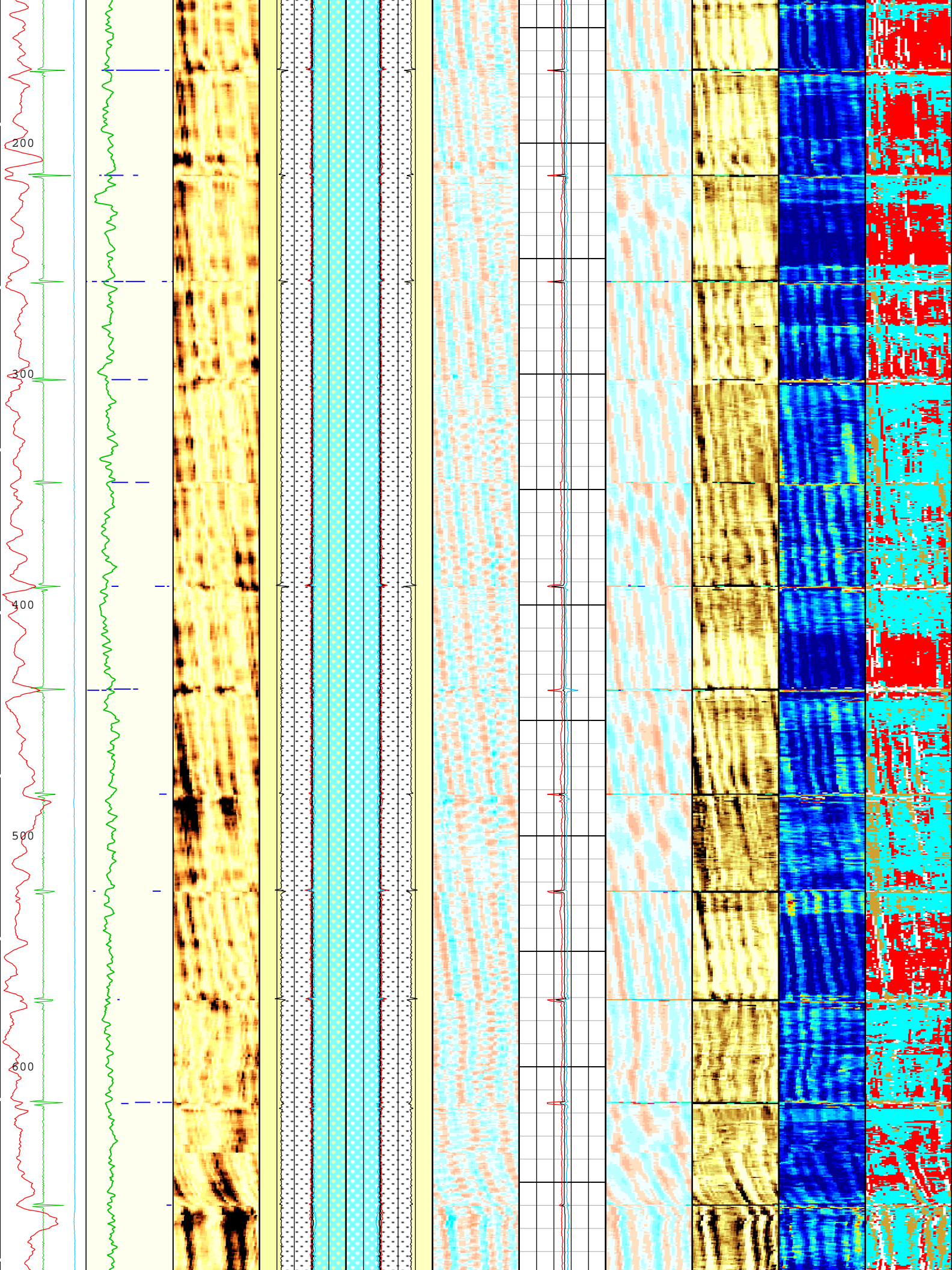
WINLEN Error

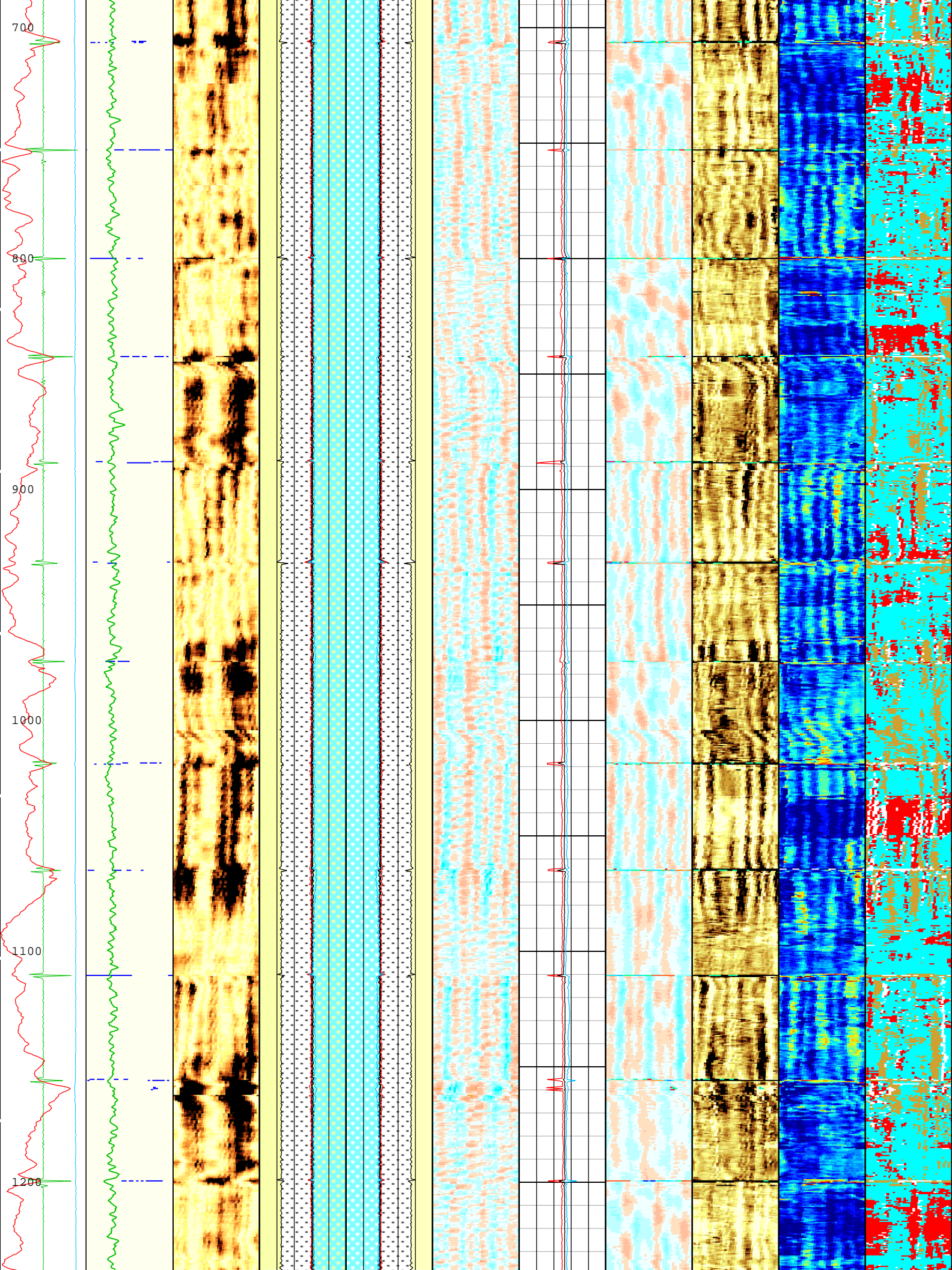
Casing Thickness Error

Loop Processing Error

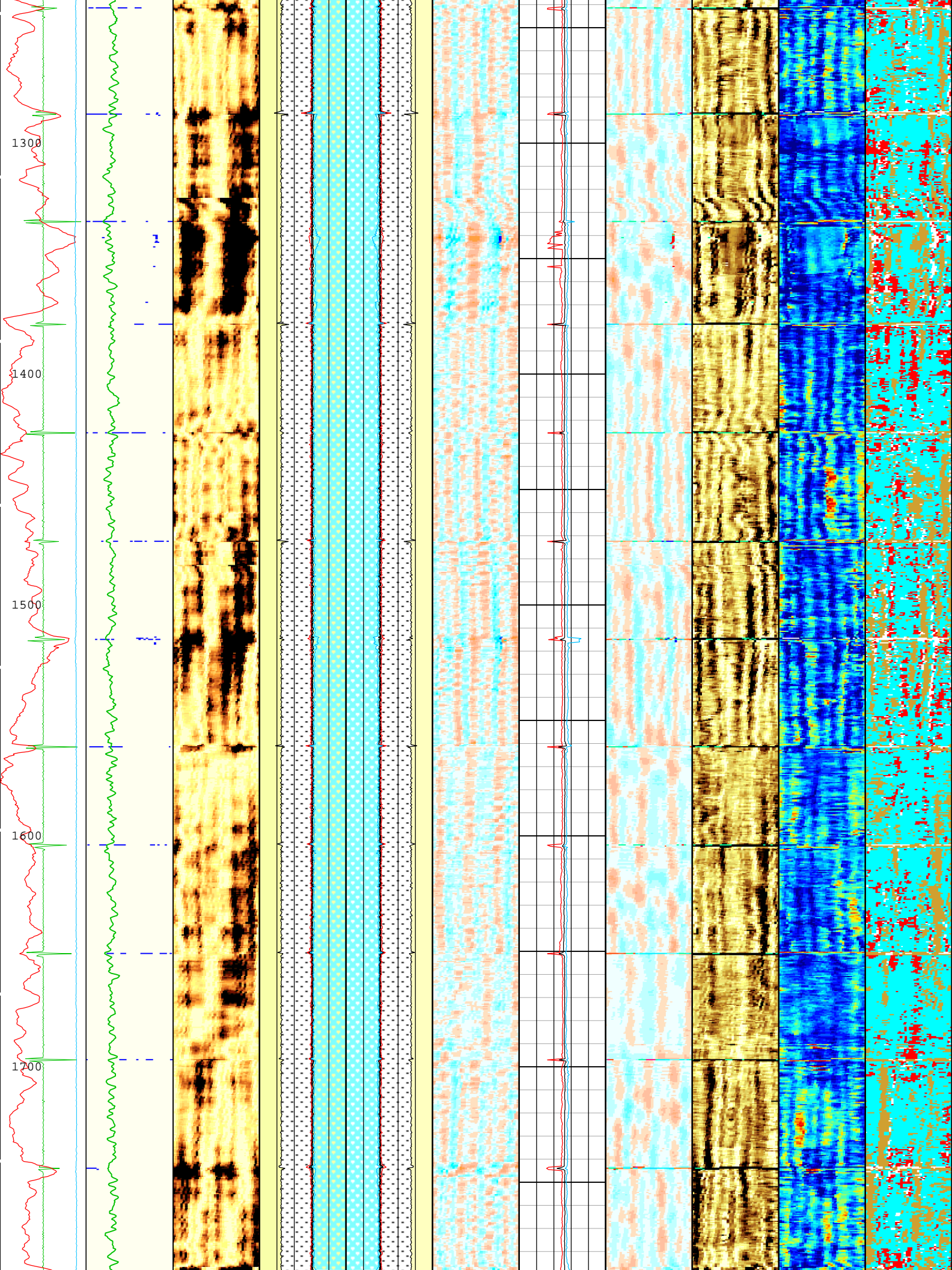


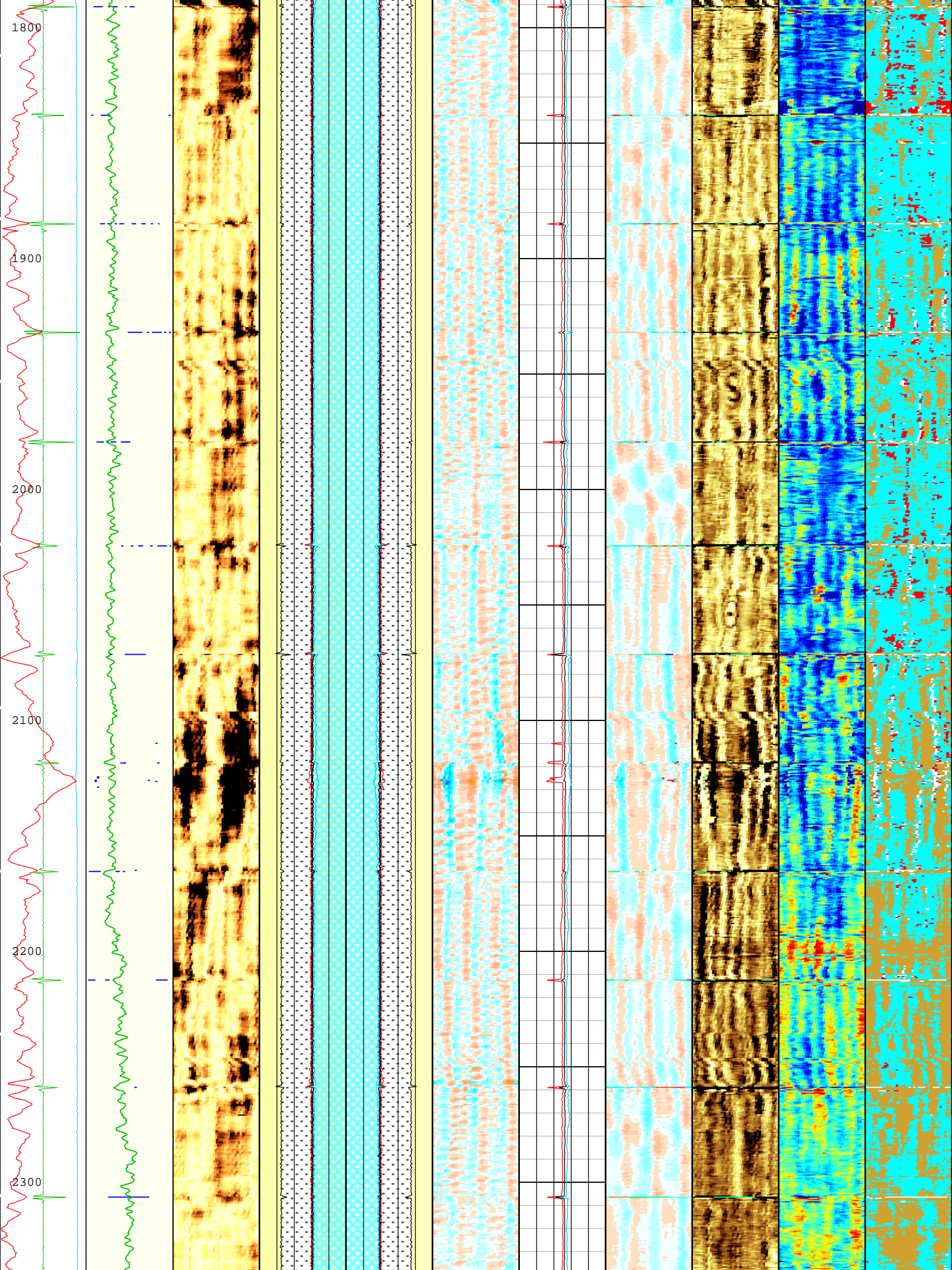




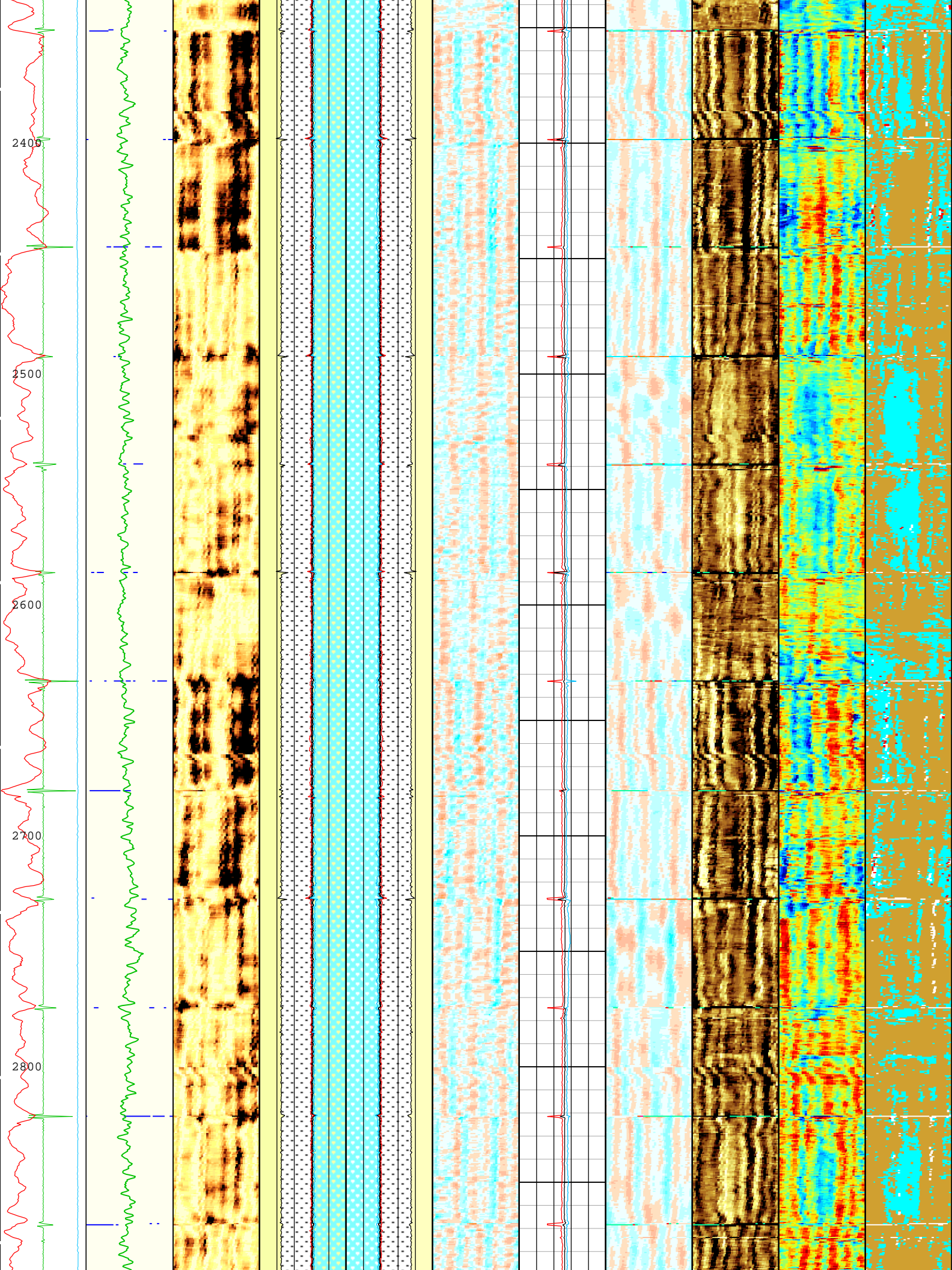




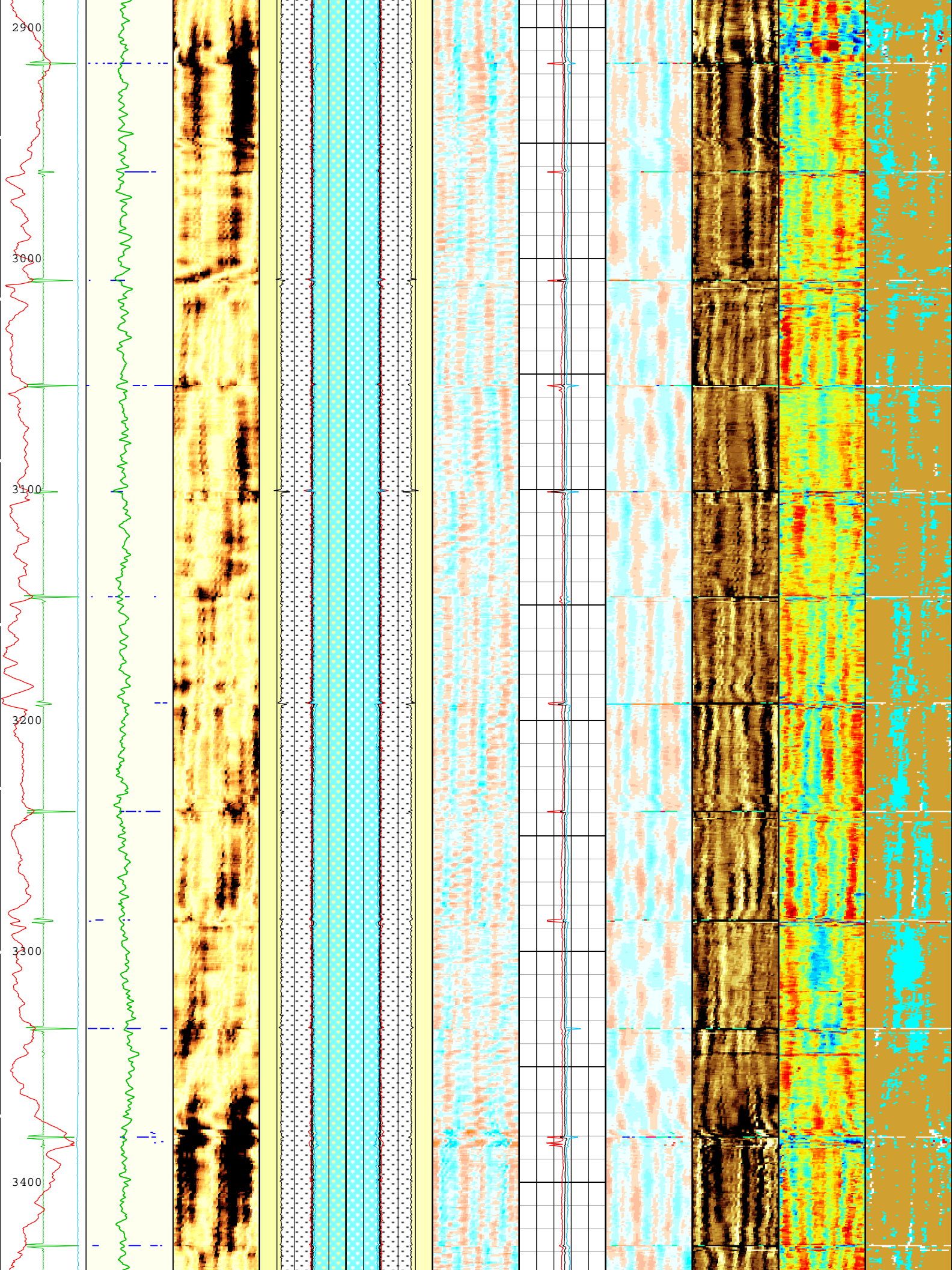


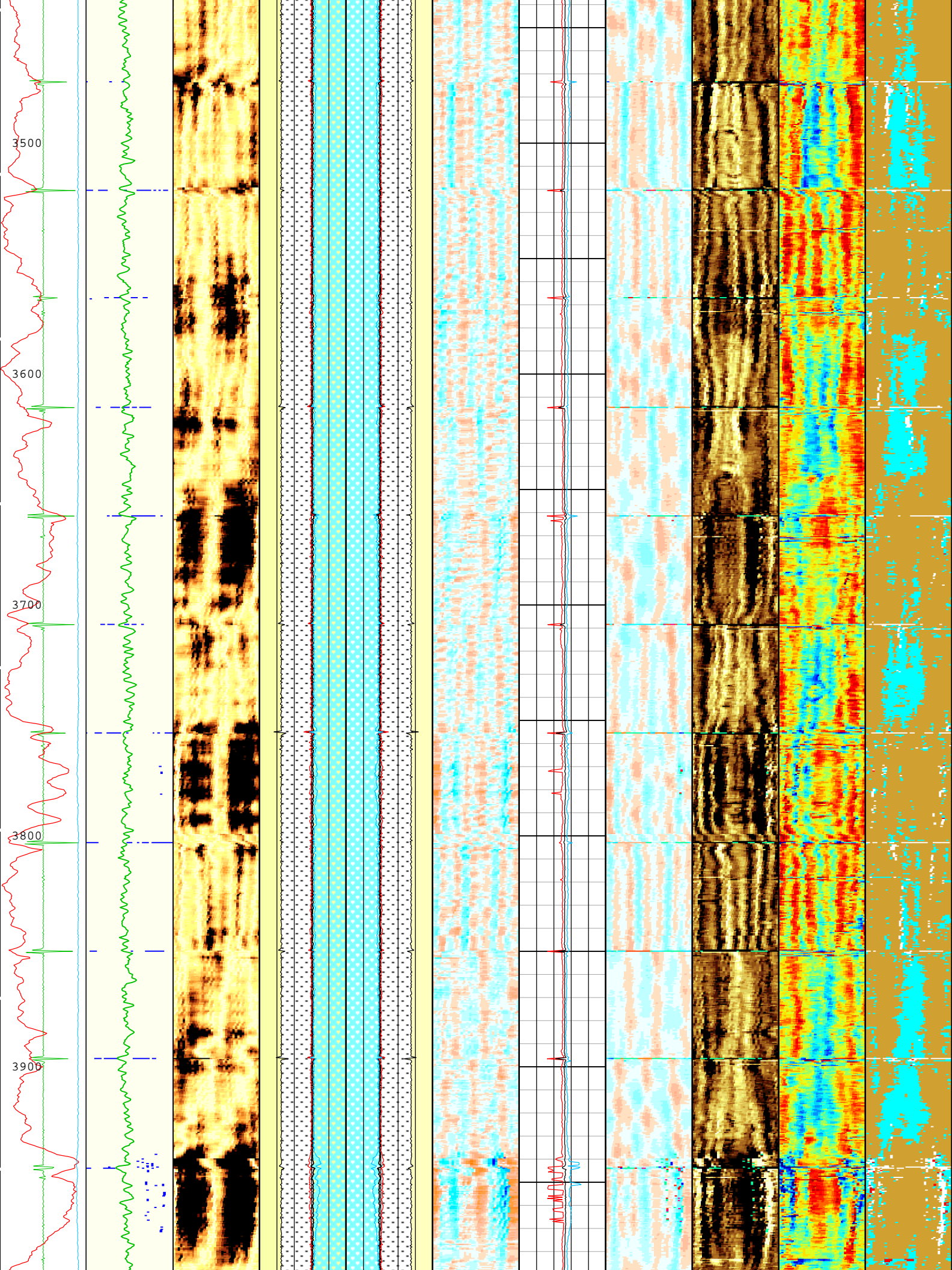




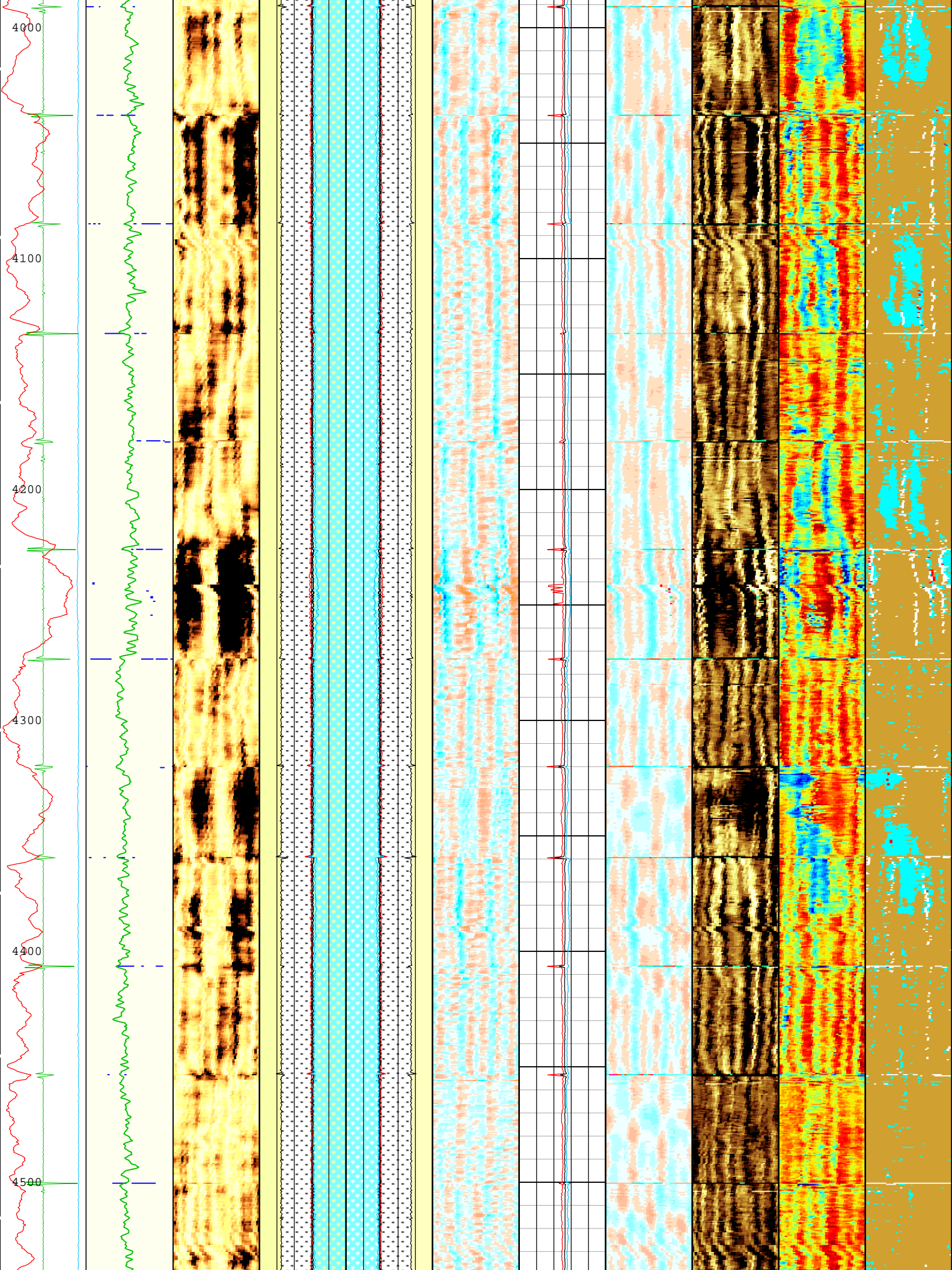


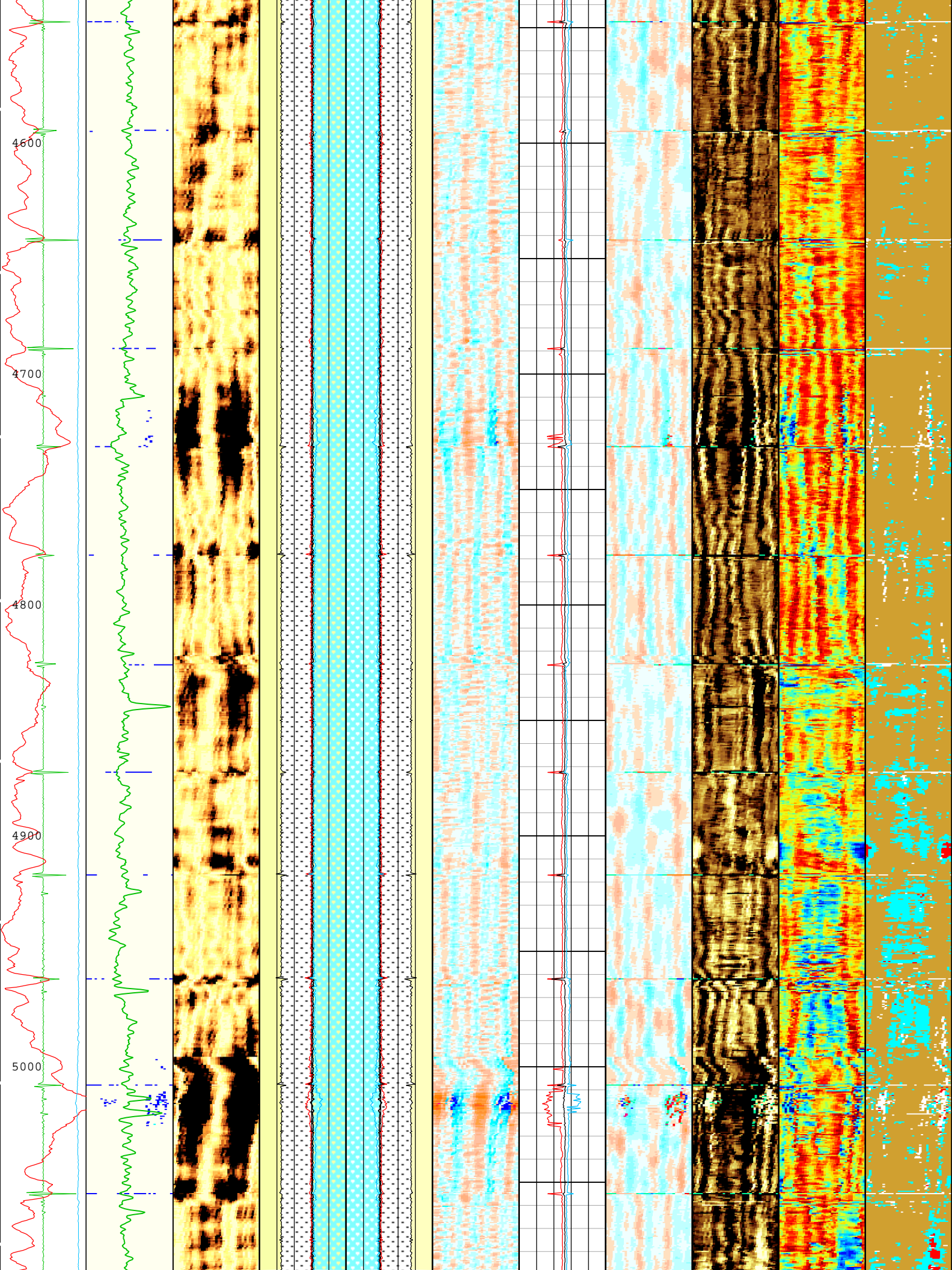




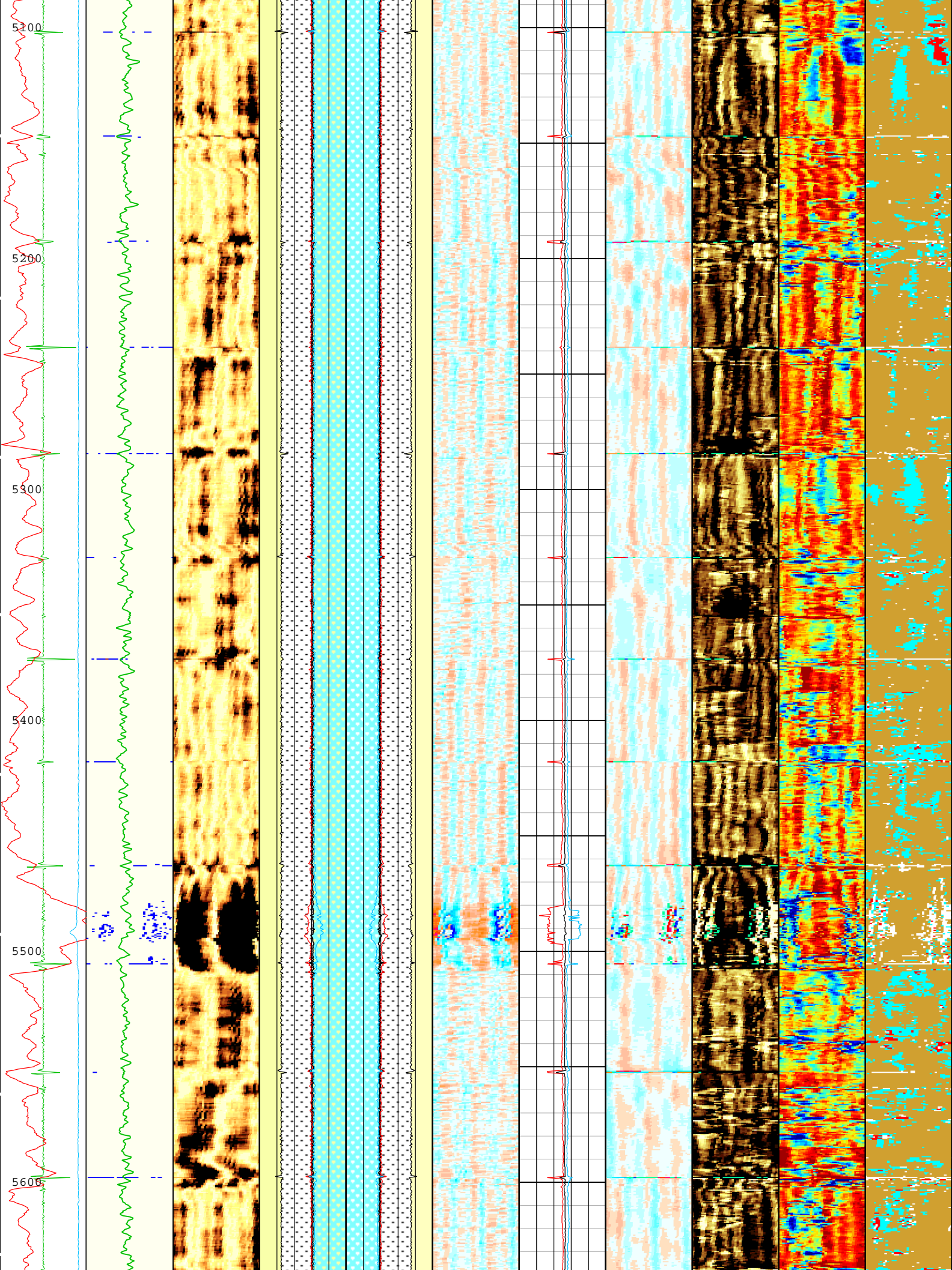




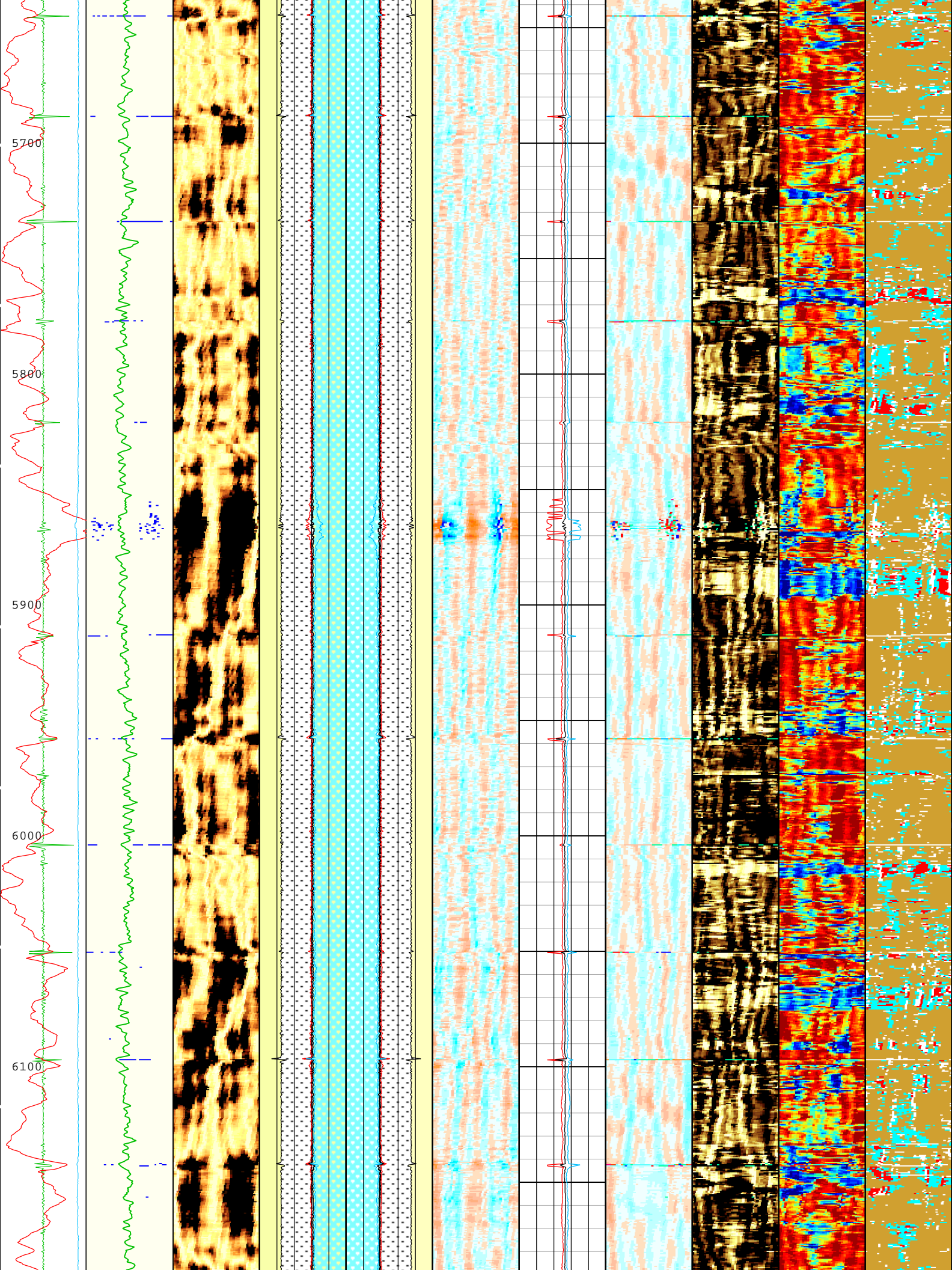


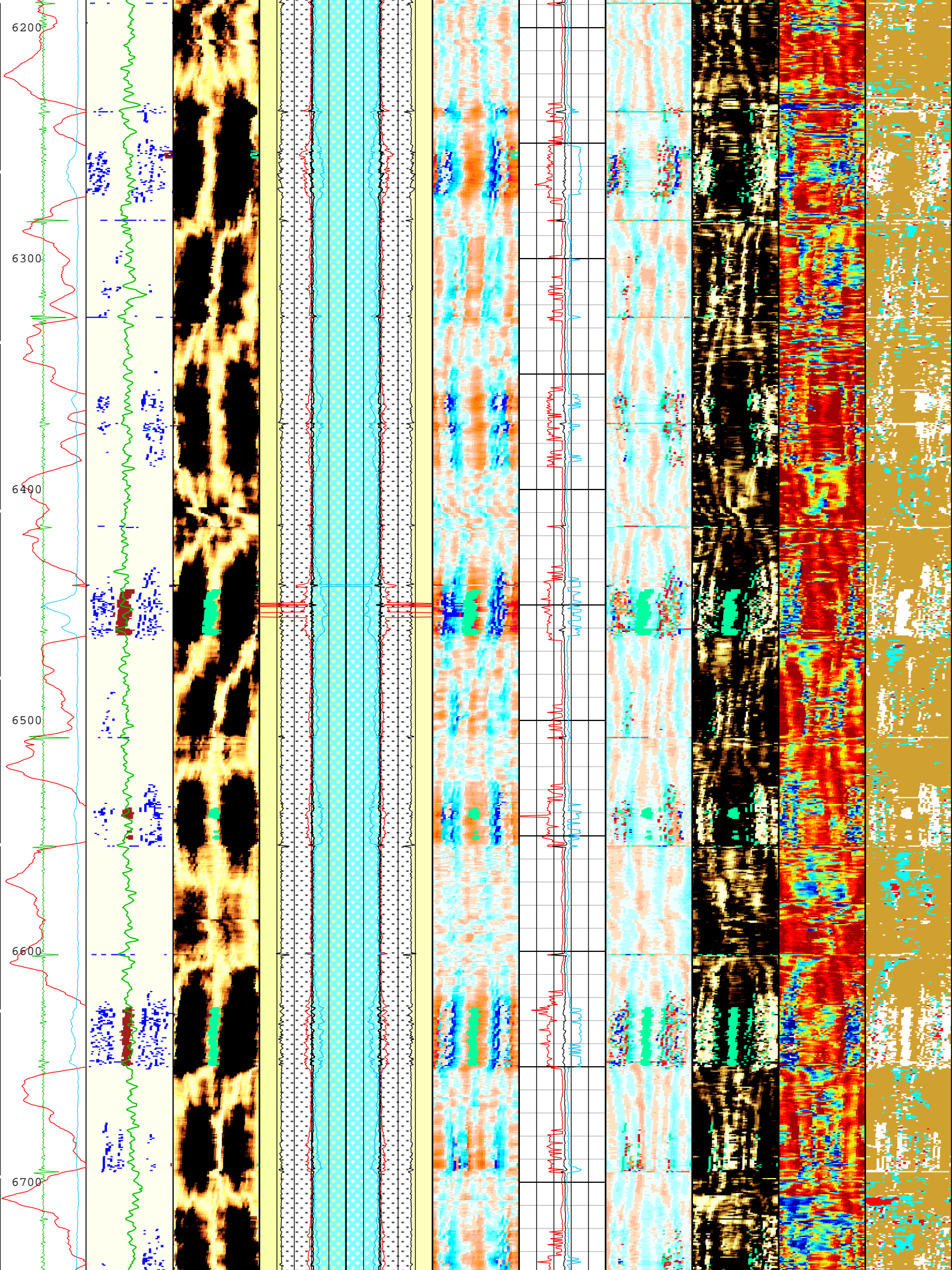




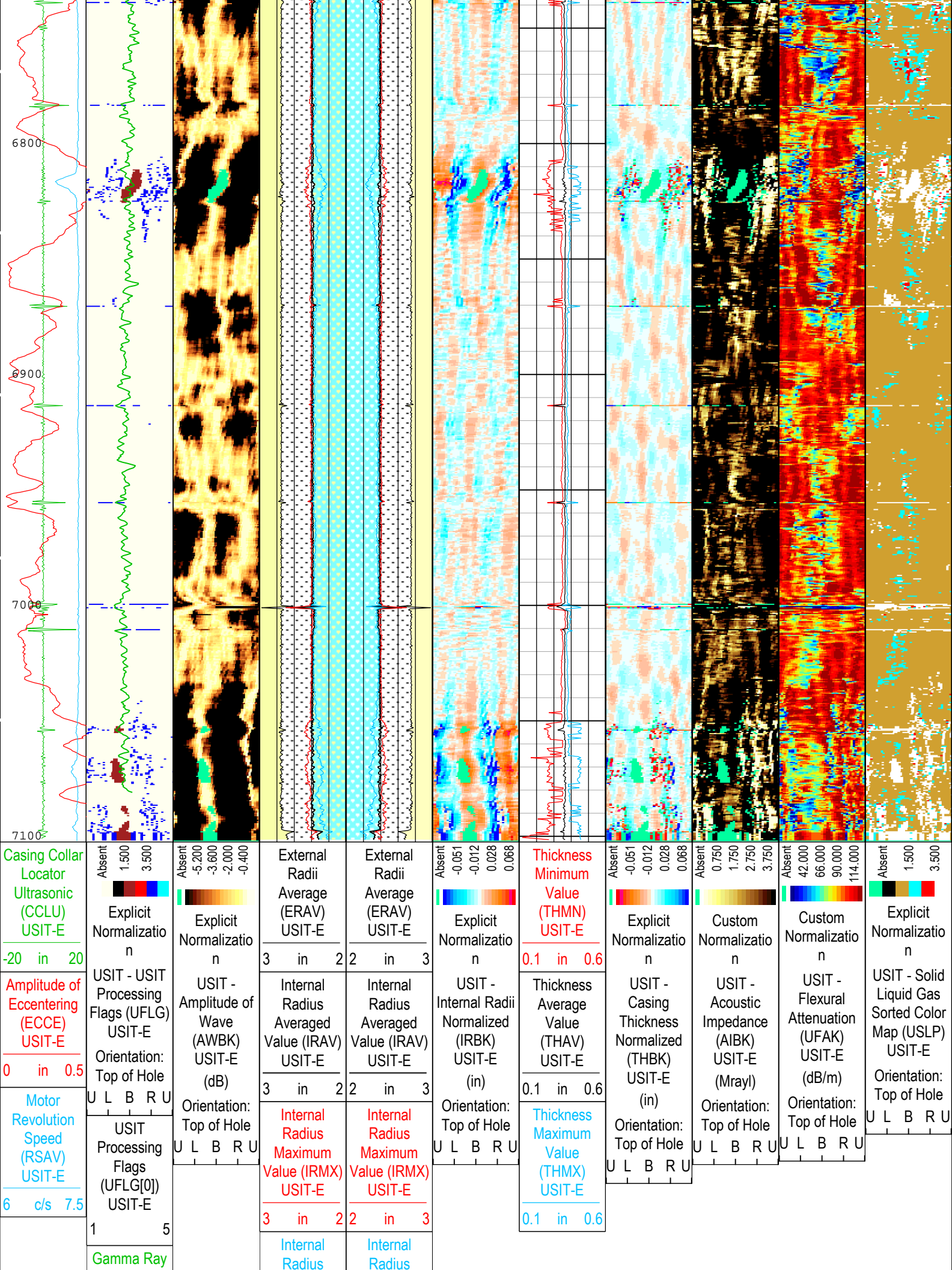












<div> <div>(ECGR_EDT C) EDTC-B</div> <div>0 gAPI 150</div> </div>		<div> <div>Minimum Value (IRMN) USIT-E</div> <div>3 in 2</div> </div>	<div> <div>Minimum Value (IRMN) USIT-E</div> <div>2 in 3</div> </div>
USIT Processing Flags (UFLG[0]) USIT-E <div> <div>1 - UFLG 1 Value within [0.0 - 1.5] - : <div>■</div> UTIM Error</div> <div>2 - UFLG 2 Value within [1.5 - 2.5] - : <div>■</div> Pulse Origin Not Detected</div> <div>3 - UFLG 3 Value within [2.5 - 3.5] - : <div>■</div> WINLEN Error</div> <div>4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : <div>■</div> Casing Thickness Error</div> <div>5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10 ] - : <div>■</div> Loop Processing Error</div> </div>			
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: 23-Sep-2018 17:18:04			

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	15288	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	-30.49	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	1.64	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	55		2165
BS	8.5	2165		7102.5
All depth are actual				

Tool Control Parameters

ONE: Parameters

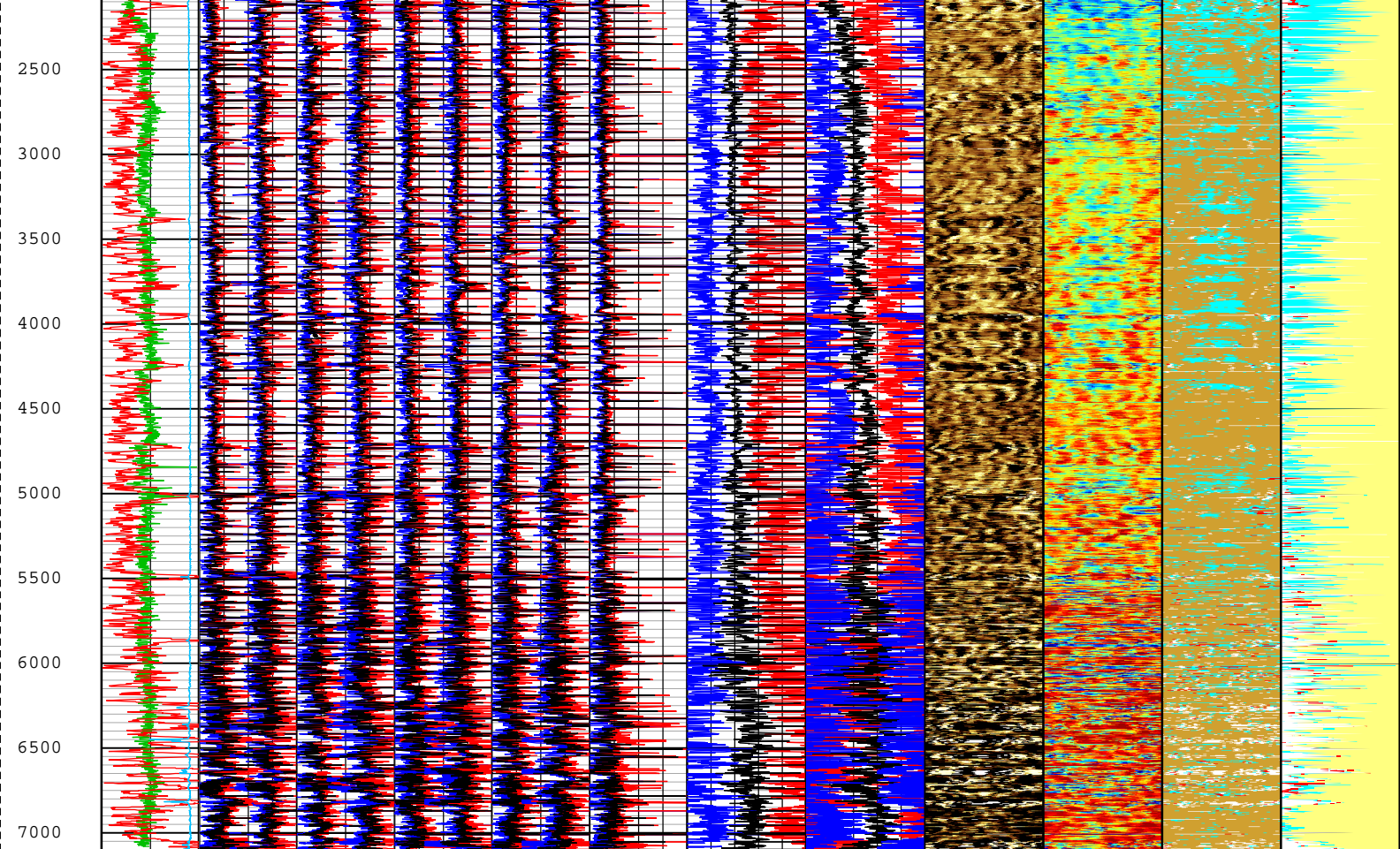
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	70	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	Time Zoned	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	Time Zoned	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 )
U-USIT_UFWB	137	23-Sep-2018 08:14:57	23-Sep-2018 08:19:32	7103.1	6800.5
U-USIT_UFWB	133.89	23-Sep-2018 08:19:32	23-Sep-2018 09:58:24	6800.5	54.86
U-USIT_UFWE	182.19	23-Sep-2018 08:14:57	23-Sep-2018 08:50:29	7103.1	4621.04
U-USIT_UFWE	168.05	23-Sep-2018 08:50:29	23-Sep-2018 08:51:07	4621.04	4576.12
U-USIT_UFWE	173.94	23-Sep-2018 08:51:07	23-Sep-2018 09:33:13	4576.12	1581.98
U-USIT_UFWE	177.47	23-Sep-2018 09:33:13	23-Sep-2018 09:33:20	1581.98	1572.8
U-USIT_UFWE	189.25	23-Sep-2018 09:33:20	23-Sep-2018 09:33:28	1572.8	1563.56
U-USIT_UFWE	185.72	23-Sep-2018 09:33:28	23-Sep-2018 09:33:40	1563.56	1549.58
U-USIT_UFWE	183.36	23-Sep-2018 09:33:40	23-Sep-2018 09:58:24	1549.58	54.86
U-USIT_UNWB	106	23-Sep-2018 08:14:57	23-Sep-2018 08:19:37	7103.1	6794.85
U-USIT_UNWB	103.26	23-Sep-2018 08:19:37	23-Sep-2018 09:58:24	6794.85	54.86
U-USIT_UNWE	146	23-Sep-2018 08:14:57	23-Sep-2018 08:50:25	7103.1	4625.44
U-USIT_UNWE	136.24	23-Sep-2018 08:50:25	23-Sep-2018 09:26:59	4625.44	2024.53
U-USIT_UNWE	140.96	23-Sep-2018 09:26:59	23-Sep-2018 09:27:09	2024.53	2013.08
U-USIT_UNWE	145.67	23-Sep-2018 09:27:09	23-Sep-2018 09:27:46	2013.08	1969.26
U-USIT_UNWE	142.13	23-Sep-2018 09:27:46	23-Sep-2018 09:44:10	1969.26	809.58
U-USIT_UNWE	145.67	23-Sep-2018 09:44:10	23-Sep-2018 09:58:24	809.58	54.86
WINB	31.88	23-Sep-2018 08:14:57	23-Sep-2018 08:24:31	7103.1	6443.36
WINB	24.76	23-Sep-2018 08:24:31	23-Sep-2018 08:25:46	6443.36	6352.62
WINB	27.35	23-Sep-2018 08:25:46	23-Sep-2018 08:27:24	6352.62	6231.89
WINB	24.76	23-Sep-2018 08:27:24	23-Sep-2018 08:28:44	6231.89	6134.83
WINB	27.35	23-Sep-2018 08:28:44	23-Sep-2018 09:58:24	6134.83	54.86
WINE	71.88	23-Sep-2018 08:14:57	23-Sep-2018 08:23:15	7103.1	6535.26
WINE	77.45	23-Sep-2018 08:23:15	23-Sep-2018 08:24:28	6535.26	6447.46
WINE	73.13	23-Sep-2018 08:24:28	23-Sep-2018 08:25:42	6447.46	6358.27







<div>Gamma Ray (ECGR_E DTC) EDTC-B</div> <div>0150 gAPI</div> <div>Amplitude of Eccentering (ECCE) USIT-E</div> <div>0in 0.5</div> <div>Motor Revolution Speed (RSAV) USIT-E</div> <div>6c/s 7.5</div>	Goodwin Sector Curves (5 Mrayl per Division)			Acoustic Impedance Minimum (AIMN) USIT-E	Maximum Flexural Attenuation (U-USIT_UF AX) USIT-E	<div>Absent0.7501.7502.7503.750</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>0.00048.00072.00096.000120.000</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>Absent1.5003.500</div> <div>Explicit Normalization</div> <div>USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E</div> <div>Orientation: Top of Hole</div> <div>U L B R U</div>	SLG Solid Index
				-1 Mrayl 9	40140 dB/m				SLG Liquid Index
				Acoustic Impedance Maximum (AIMX) USIT-E	Average Flexural Attenuation (U-USIT_UF AV) USIT-E				SLG Gas Index
				-1 Mrayl 9	40140 dB/m				SLG White Point Index
				Acoustic Impedance Average (AIAV) USIT-E	Minimum Flexural Attenuation (U-USIT_UF AN) USIT-E				
			-1 Mrayl 9	40140 dB/m					

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 17:18:22

ONE

IBC SLG

Software Version

Acquisition System    Version

Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[2]:Up	Up	1990.86 ft	2312.54 ft	23-Sep-2018 7:46:58 AM	23-Sep-2018 7:51:57 AM	ON	1.64 ft	Yes
All depths are referenced to toolstring zero									

Log	Company:Crestone Peak Resources Operating LLC	Well:Davis 1P-9H-G266
	ONE: Log[2]:Up:S003	

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 17:18:32

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 ] - :

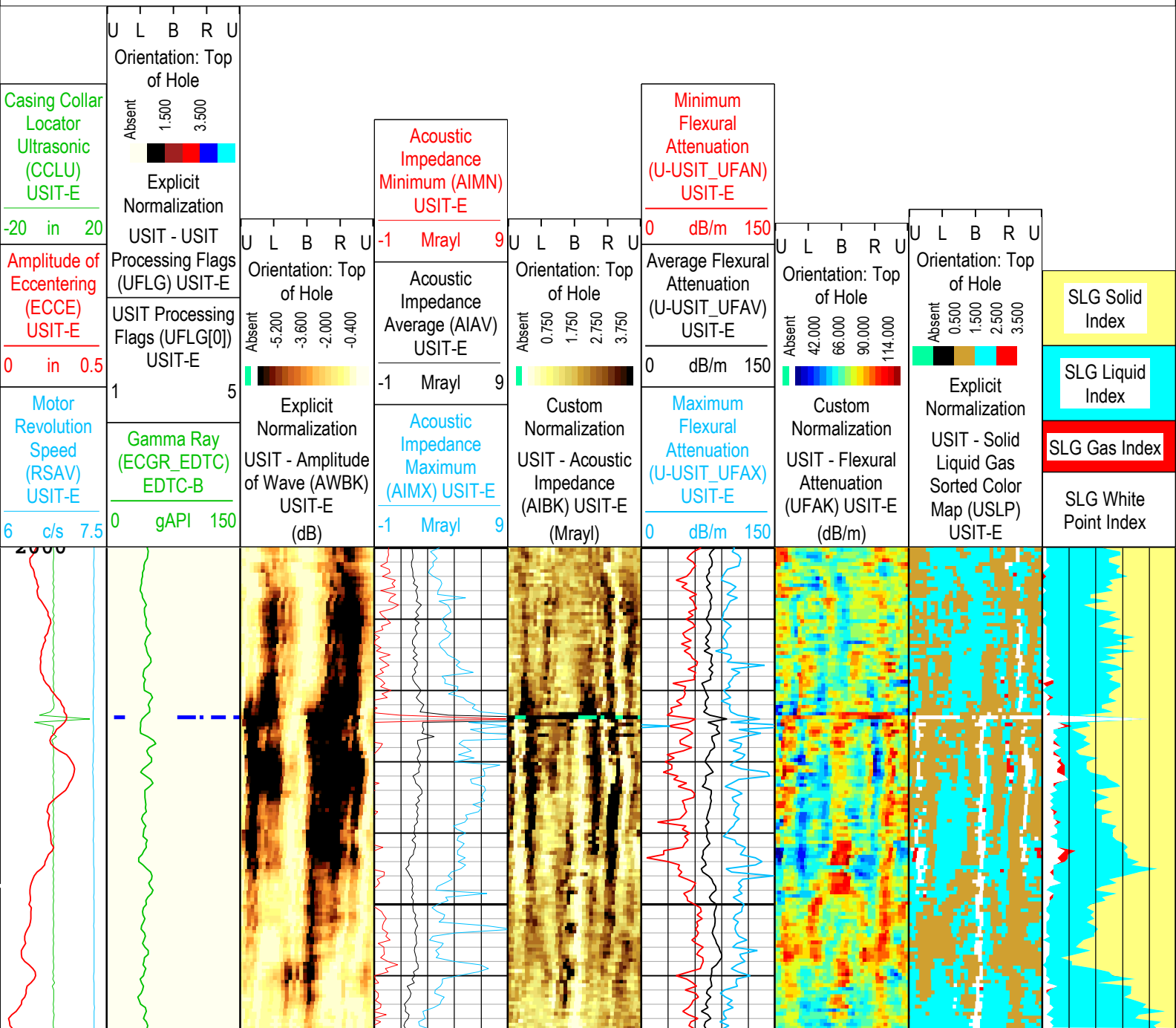
UTIM Error

Pulse Origin Not Detected

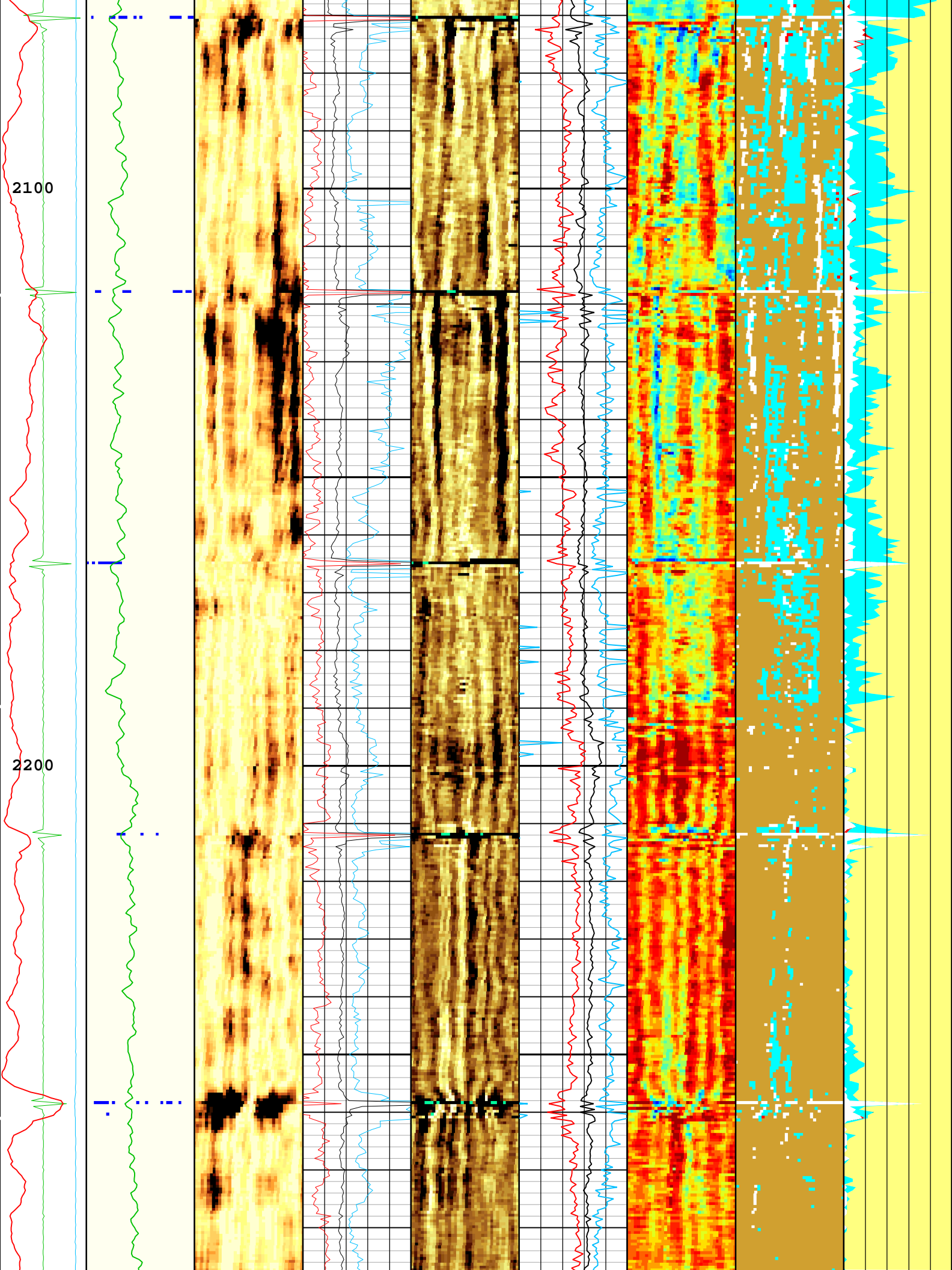
WINLEN Error

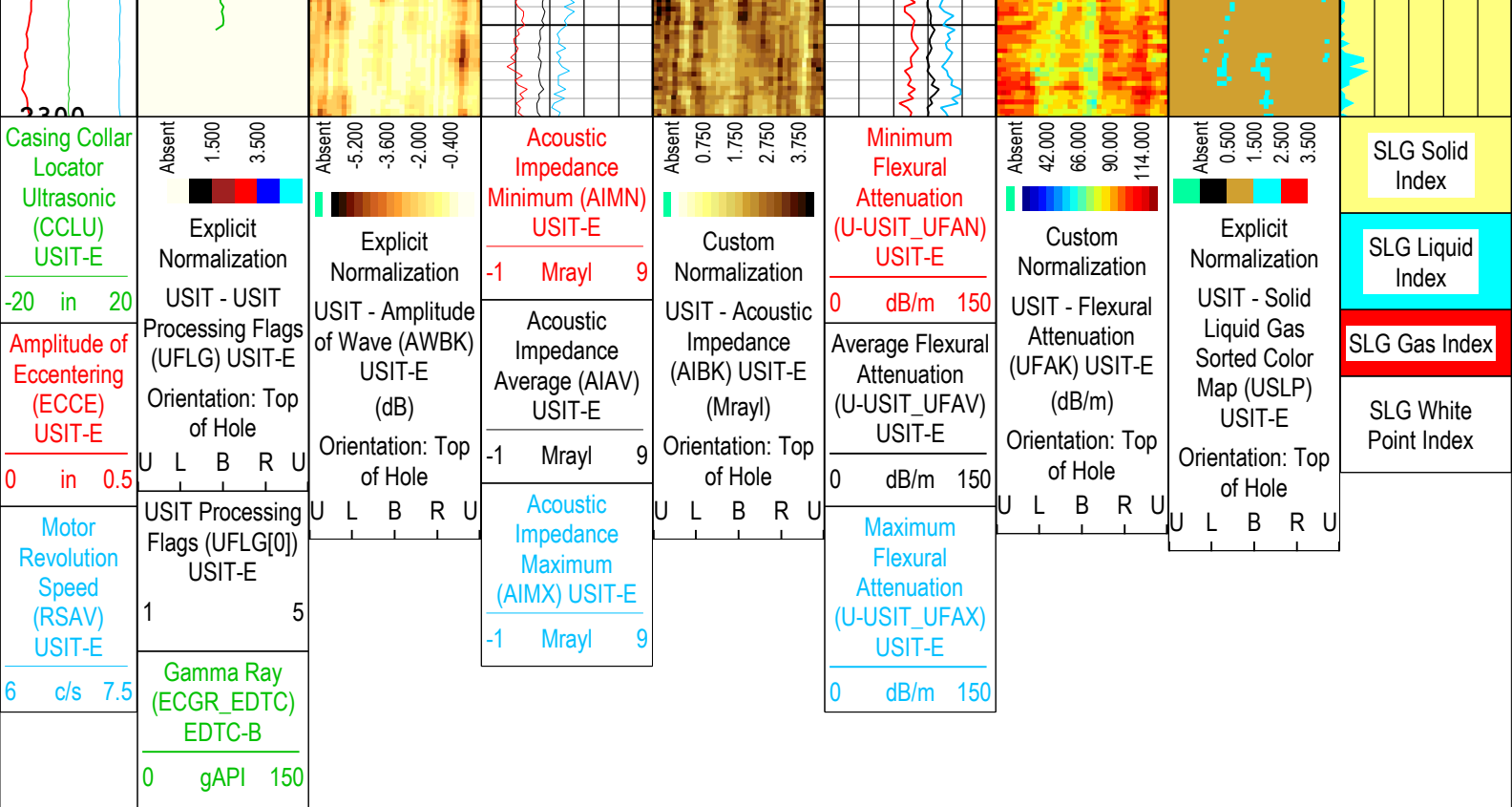
Casing Thickness Error

Loop Processing Error









USIT Processing Flags (UFLG[0]) USIT-E				
1 - UFLG 1 Value within [0.0 - 1.5] - :		UTIM Error		
2 - UFLG 2 Value within [1.5 - 2.5] - :		Pulse Origin Not Detected		
3 - UFLG 3 Value within [2.5 - 3.5] - :		WINLEN Error		
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :		Casing Thickness Error		
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10 ] - :		Loop Processing Error		
TIME_1900 - Time Marked every 60.00 (s)				
Description: USI IBC SLG Format: Log ( IBC SLG ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 23-Sep-2018 17:18:32				

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BAR(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	15288	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	-30.49	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	1.64	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	
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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	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	182.19	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[2]:Up	Up	1990.86 ft	2312.54 ft	23-Sep-2018 7:46:58 AM	23-Sep-2018 7:51:57 AM	ON	1.64 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources Operating LLCWell:Davis 1P-9H-G266ONE: Log[2]:Up:S003

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 17:18:40

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

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

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

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

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

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

UTIM Error

Pulse Origin Not Detected

WINLEN Error

Casing Thickness Error

Loop Processing Error

TIME\_1900 - Time Marked every 60.00 (s)

Casing Collar Locator Ultrasonic (CCLU) USIT-E

-20 in 20

Amplitude of Eccentering (ECCE) USIT-E

0 in 0.5

Motor Revolution Speed (RSAV) USIT-E

ULBRU

Orientation: Top of Hole

Absent 1.500 3.500

Explicit Normalization

USIT - USIT Processing Flags (UFLG) USIT-E

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

1 5

Gamma Ray (ECGR\_EDT C) EDTC-B USIT-E

ULBRU

Orientation: Top of Hole

Absent -5.200 -3.600 -2.000 -0.400

Explicit Normalization

USIT - Amplitude of Wave (AWBK) USIT-E

External Radii Average (ERAV) USIT-E

3 in 2

Internal Radius Averaged Value (IRAV) USIT-E

3 in 2

Internal Radius Maximum Value (IRMX) USIT-E

3 in 2

Internal Radius Minimum Value (IRMN) USIT-F

3 in 2

External Radii Average (ERAV) USIT-E

2 in 3

Internal Radius Averaged Value (IRAV) USIT-E

2 in 3

Internal Radius Maximum Value (IRMX) USIT-E

2 in 3

Internal Radius Minimum Value (IRMN) USIT-F

2 in 3

ULBRU

Orientation: Top of Hole

Absent -0.051 -0.012 0.028 0.068

Explicit Normalization

USIT - Internal Radii Normalized (IRBK) USIT-E

Thickness Minimum Value (THMN) USIT-E

0.1 in 0.6

Thickness Average Value (THAV) USIT-E

0.1 in 0.6

Thickness Maximum Value (THMX) USIT-F

ULBRU

Orientation: Top of Hole

Absent -0.051 -0.012 0.028 0.068

Explicit Normalization

USIT - Casing Thickness Normalized (THBK) USIT-E

ULBRU

Orientation: Top of Hole

Absent 0.750 1.750 2.750 3.750

Custom Normalization

USIT - Acoustic Impedance (AIBK) USIT-E

ULBRU

Orientation: Top of Hole

Absent 42.000 66.000 90.000 114.000

Custom Normalization

USIT - Flexural Attenuation (UFAK) USIT-E

ULBRU






Orientation: Top of Hole

Absent 1.500 3.500

Explicit Normalization

USIT - Solid Liquid Gas Sorted Color



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 17:18:40				

<b>Channel Processing Parameters</b>	
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<b>ONE: Parameters</b>
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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	15288	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	-30.49	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	1.64	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

<b>Depth Zone Parameters</b>
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Parameter	Value	Start ( ft )	Stop ( ft )
BS	13.5	2000	2165
BS	8.5	2165	2300

All depth are actual.

<b>Tool Control Parameters</b>	
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<b>ONE: Parameters</b>
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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	70	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	182.19	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	146	us
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	31.88	us
WINE	Window End Time	USIT-E	71.88	us

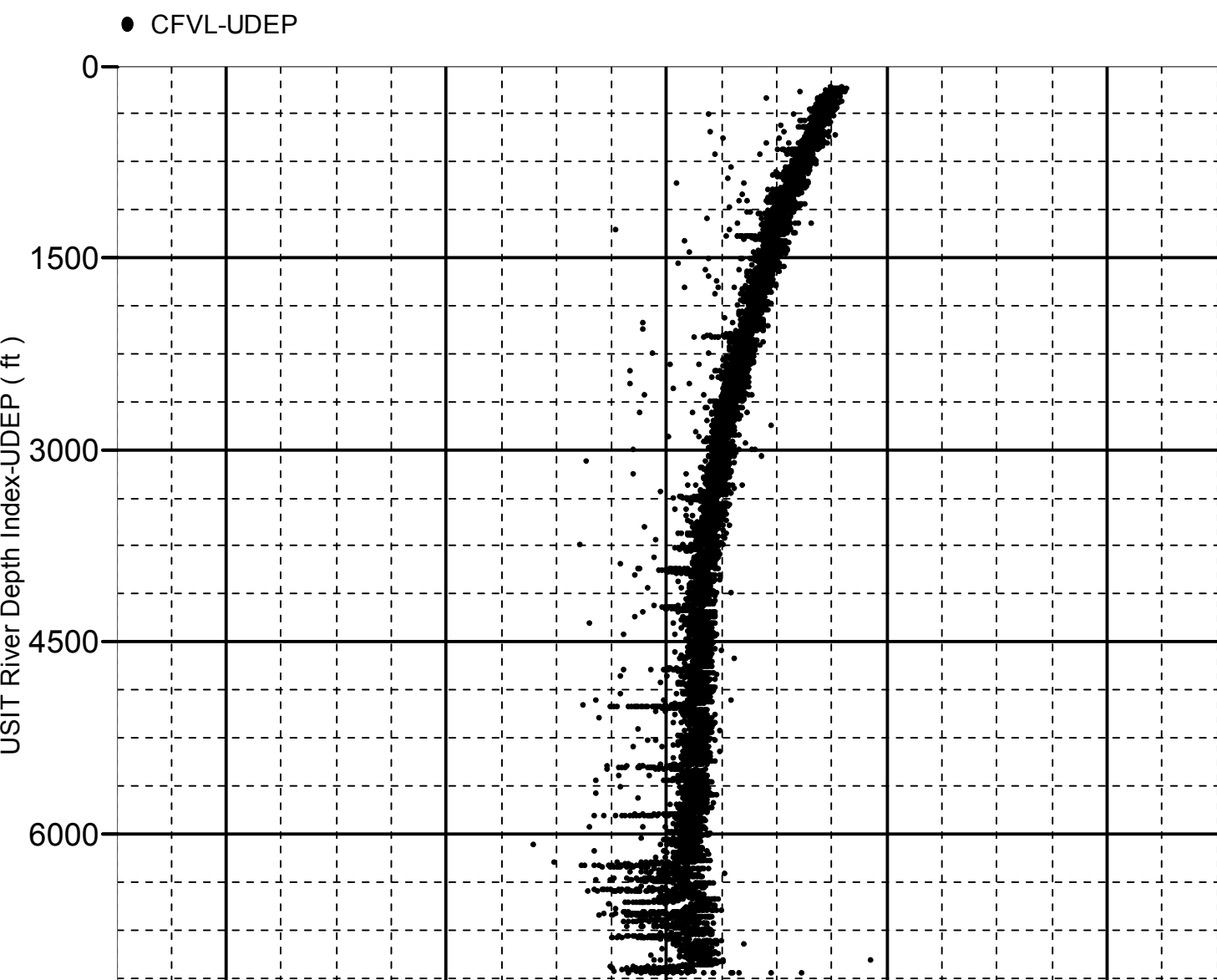
XYZ

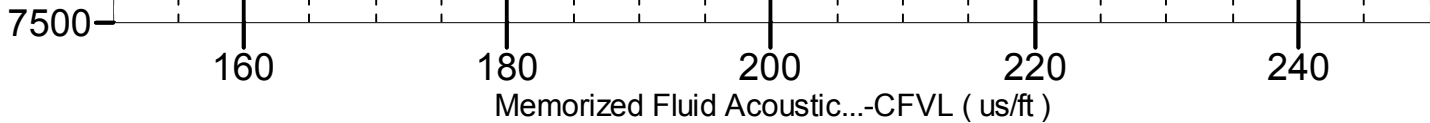
Company:Crestone Peak Resources Operating LLC Well:Davis 1P-9H-G266  
ONE: Log[4]:Up:S003

Fluid Acoustic Slowness vs Depth

2D Cross Plot

Index Range: From 7102.50 to 55.00 ft





XYZ

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

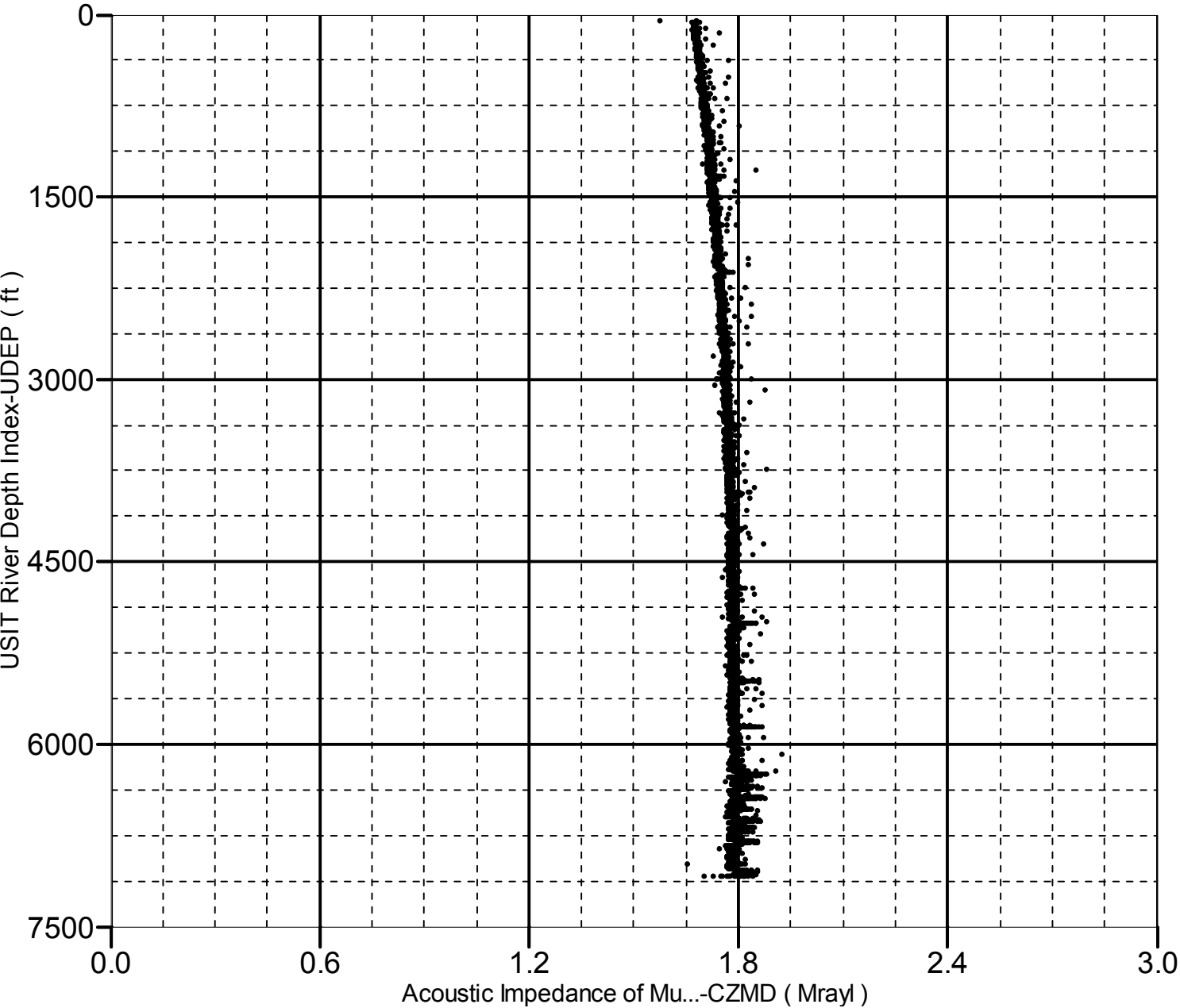
ONE: Log[4]:Up:S003

# Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 7102.50 to 54.50 ft

● CZMD-UDEP



Company: Crestone Peak Resources Operating LLC

**Schlumberger**

Well: Davis 1P-9H-G266

Field: Wattenberg



County:	Weld
State:	Colorado
Isolation Scanner	
Cement Evaluation	
Gamma Ray - CCL Log	