

Company: Expedition Water Solutions LLC

Well: EWS 4

Field: Wattenburg

County: Weld State: Colorado

Isolation Scanner - CBL VDL
Cement Evaluation
Gamma Ray - CCL LogCounty: Weld
Field: Wattenburg
Location: NE SE 18-2N-63W
Well: EWS 4
Company: Expedition Water Solutions LLC

NE SE 18-2N-63W	Elev.:	K.B.	4869.00 ft
		G.L.	4856.00 ft
		D.F.	4869.00 ft
Permanent Datum:	Ground Level	Elev.:	4856.00 f
Log Measured From:	Kelly Bushing	13.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Section:	Township:	Range:
05-123-44167	18	2N	63W

Logging Date 22-Feb-2017

Run Number TWO

Depth Driller 10204.00 ft

Schlumberger Depth 10204.00 ft

Bottom Log Interval 8500.00 ft

Top Log Interval 100.00 ft

Casing Driller Size @ Depth 7 in @ 8547.00 ft

Casing Schlumberger 8552 ft

Bit Size 6.125 in

Type Fluid In Hole Fresh Water

Density Viscosity 9.1 lbm/gal 43 s

Fluid Loss PH 5.2 cm3 8.8

MUD Source of Sample Active Tank

RM @ Meas Temp 0.5 ohm.m @ 68 degF

RMF @ Meas Temp 0.48 ohm.m @ 68 degF

RMC @ Meas Temp 0.36 ohm.m @ 68 degF

Source RMF RMC Calculated Calculated

RM @ BHT RMF @ BHT 0.17 @ 210 0.17 @ 210

Max Recorded Temperatures 258 degF

Circulation Stopped 21-Feb-2017 21:30:00

Logger on Bottom Time 22-Feb-2017 12:50:00

Unit Number Location: OSLC-AR2 2161 Ft. Morgan

Recorded By L. Await

Witnessed By Jeremiah Demuth

Disclaimer

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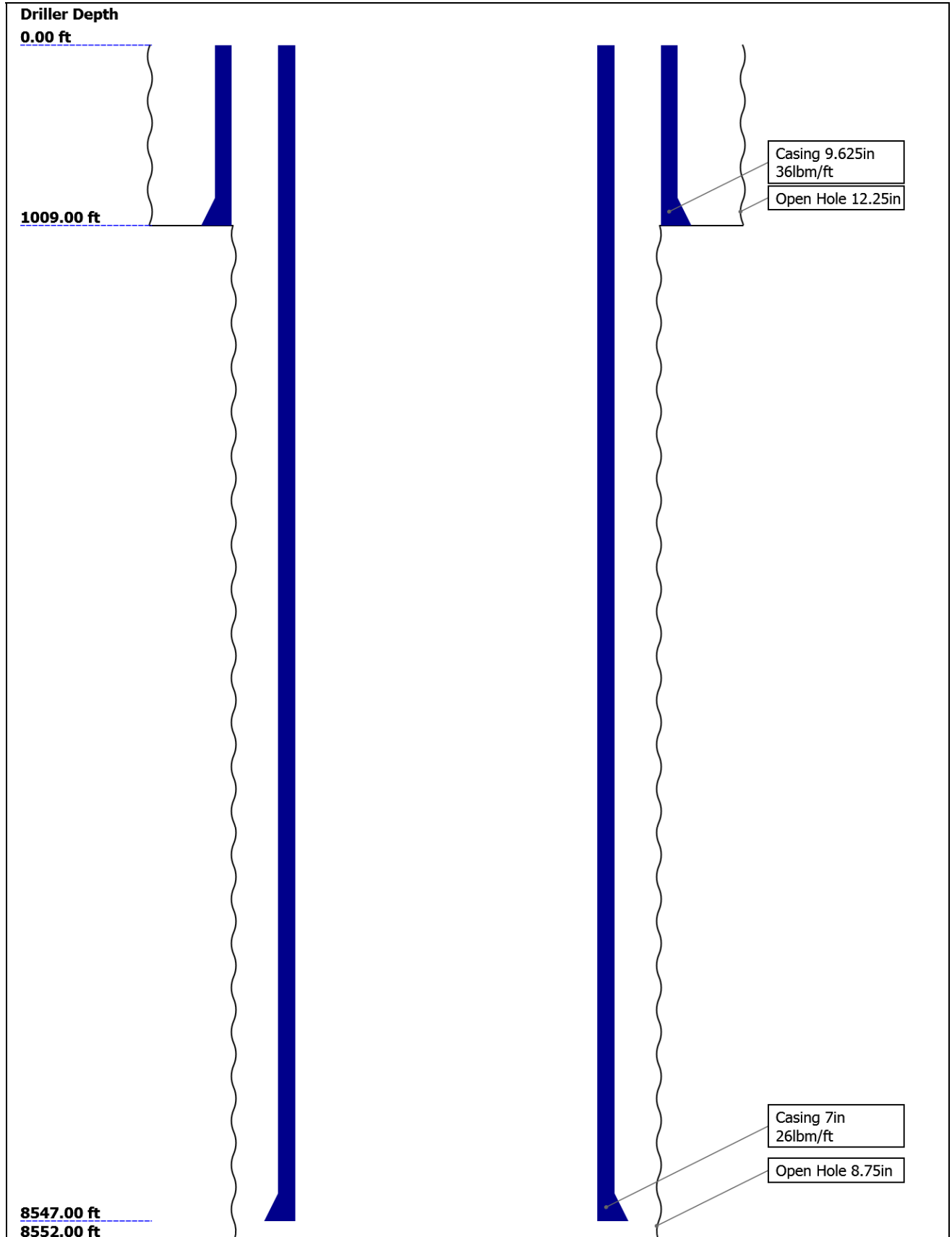
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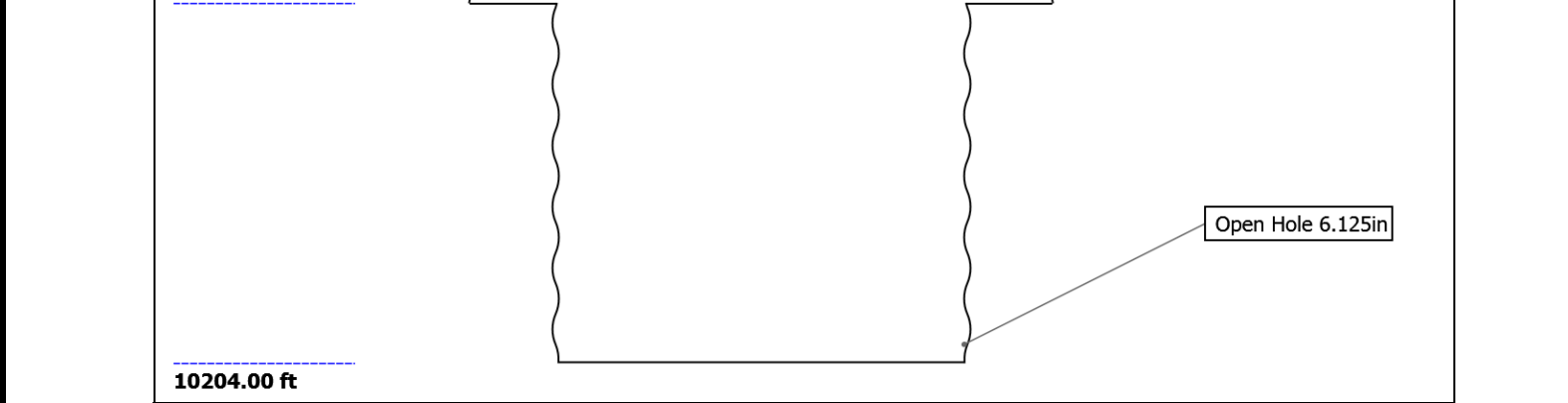
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Depth 6.0 in)

12. Tail

Well Sketch






Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	12.25	8.75	6.125			
Top Driller (ft)	0	1009	8552			
Top Logger (ft)	0	1009	8552			
Bottom Driller (ft)	1009	8552	10204			
Bottom Logger (ft)	1009	8552	10204			
Casing						
Size (in)	9.625	7				
Weight (lbm/ft)	36	26				
Inner Diameter (in)	8.921	6.276				
Grade	N/A	N/A				
Top Driller (ft)	0	0				
Top Logger (ft)	0	0				
Bottom Driller (ft)	1009	8547				
Bottom Logger (ft)	1009	8552				

Remarks and Equipment Summary

TWO: Toolstring			TWO: Remarks	
<div><div><div>Equip name</div><div>Length</div></div><div><div>LEH-QT</div><div>50.77</div></div><div>LEH-QT</div></div> <div><div><div>EDTC-B</div><div>47.85</div></div><div>EDTH-B</div><div>EDTG-A</div><div>EDTC-B</div></div> <div><div><div>DSLT-H</div><div>41.35</div></div><div>ECH-KH</div><div>DSLCH</div><div>SLS-E</div></div>		<div><div>MP name</div><div>Offset</div></div>	Thank you for choosing Schlumberger!	
			Run ONE: Log ran for open hole formation evaluation	
			Run ONE: Tool ran eccentralized as per tool sketch	
			Run ONE: Sandstone Matrix of 2.65g/cc used for TD-9800 & 8780 - Surface as per client req	
			Run ONE: Limestone Matrix of 2.71g/cc used for 9800-8780 as per client request.	
			Run TWO: Log ran for casing and cement evaluation	
			Run TWO: Tool ran centralized with two knuckles as per tool sketch	

CTEM

44.35

ACCZ

0.00

HV

0.00

Gamma

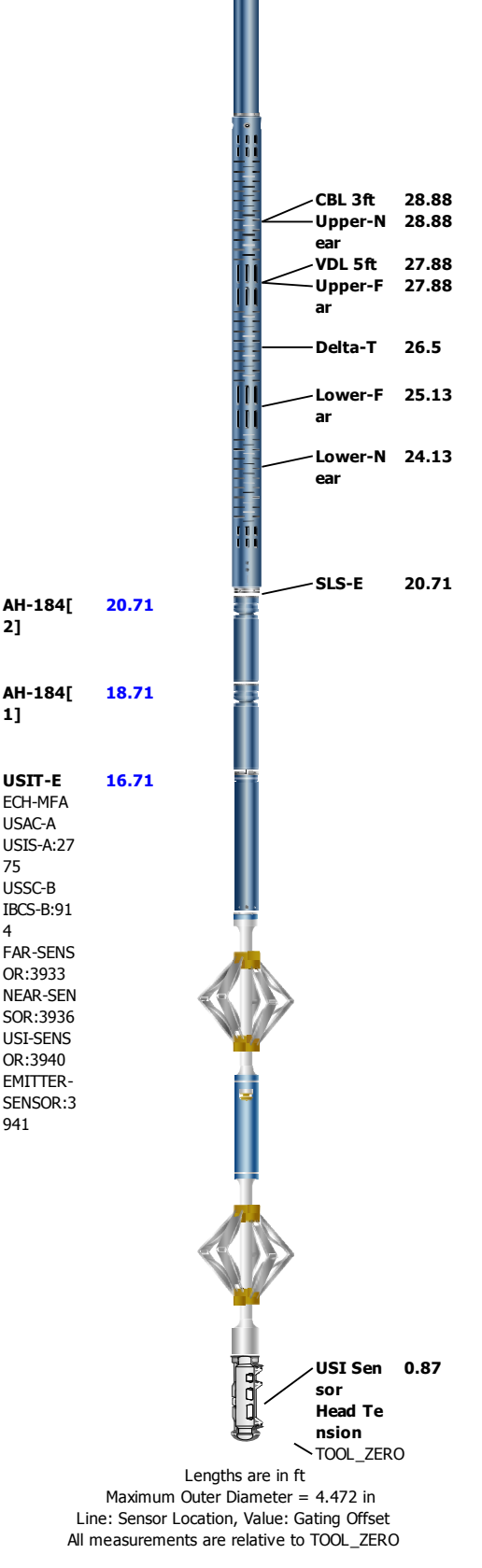
42.48

Ray

TelStatu

41.35

s



Depth Summary			
		TWO	
Depth Measuring Device			
Type	IDW-B		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	0		

Tension Device			
Type	CMTD-B/A		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Number of Calibration Points	0		

TWO:Depth Control Parameters		Depth Control Remarks
Log Sequence	First Log In the Well	
Rig Up Length At Surface		
Rig Up Length At Bottom		
Rig Up Length Correction		
Stretch Correction		
Tool Zero Check At Surface		

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 2	Log[5]:Up	8524.65	345.71

Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)
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Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
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IBC SLG CBL VDL

Acquisition System	Version
Maxwell 2017 SP1	7.1.82245.3100

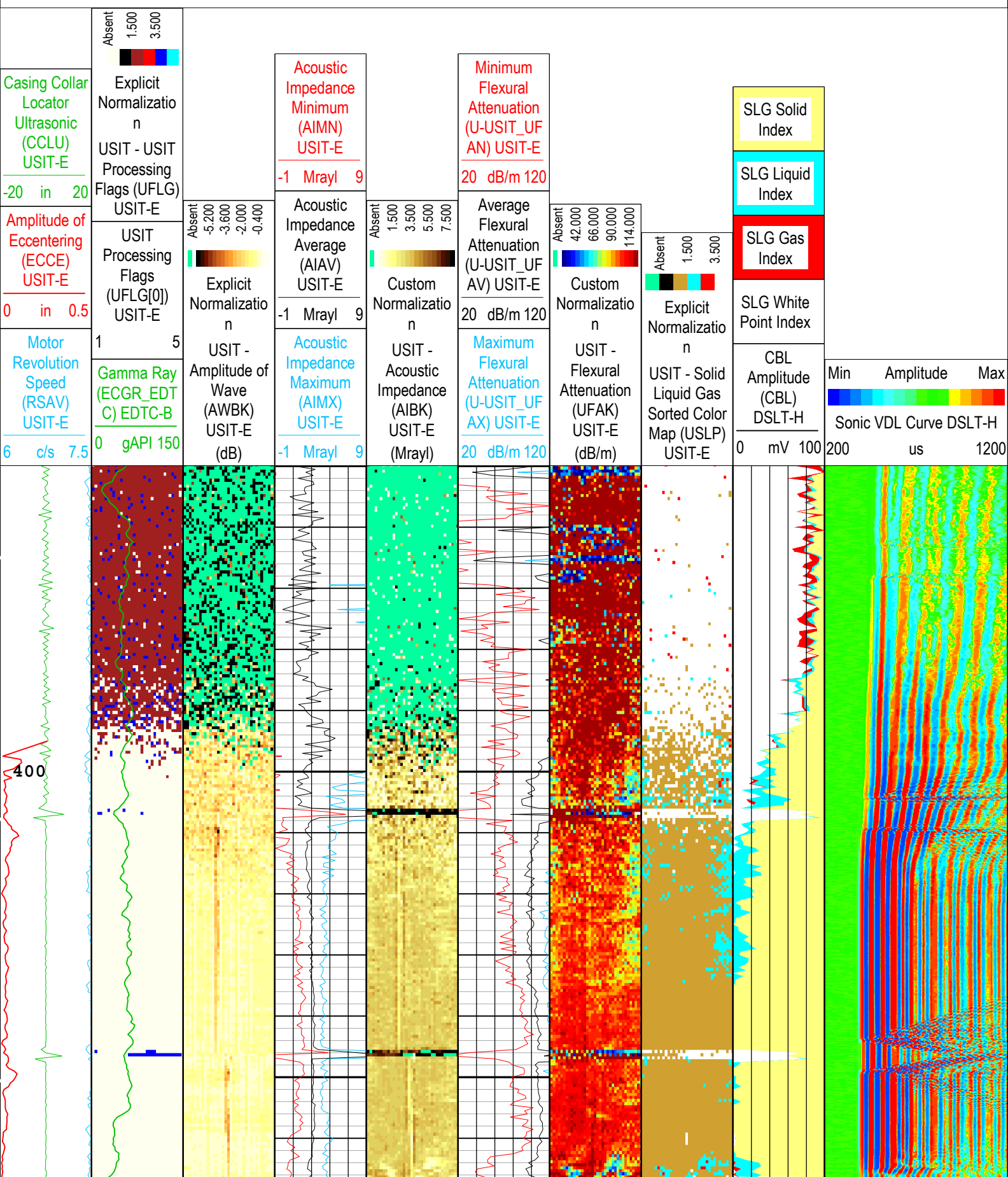
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
TWO	Log[5]:Up	Up	345.71 ft	8524.65 ft	22-Feb-2017 9:48:51 AM	22-Feb-2017 1:03:27 PM	ON	3.65 ft	Yes

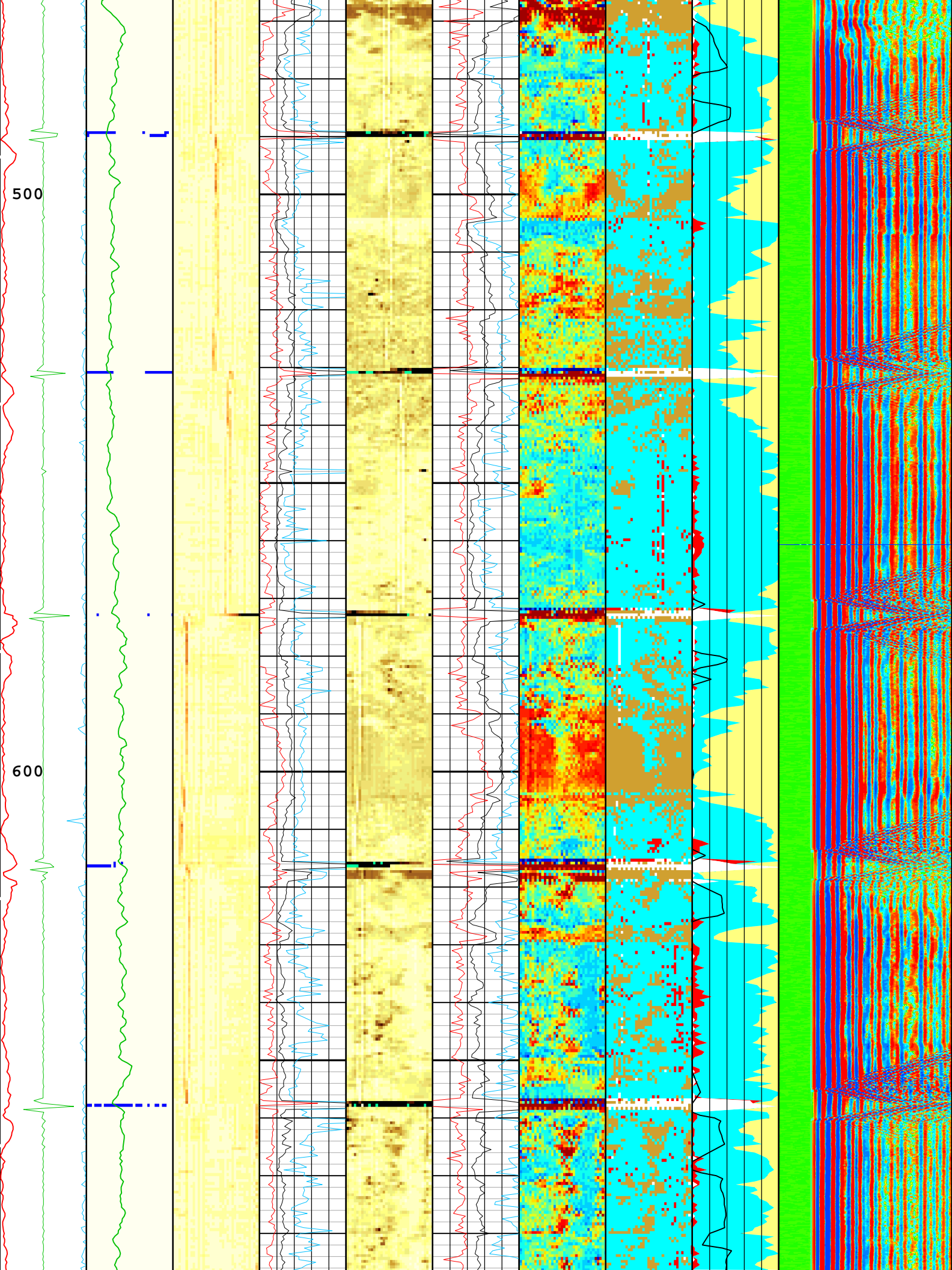
Log Company: Expedition Water Solutions LLC Well: EWS 4
TWO: Log[5]: Up: S015

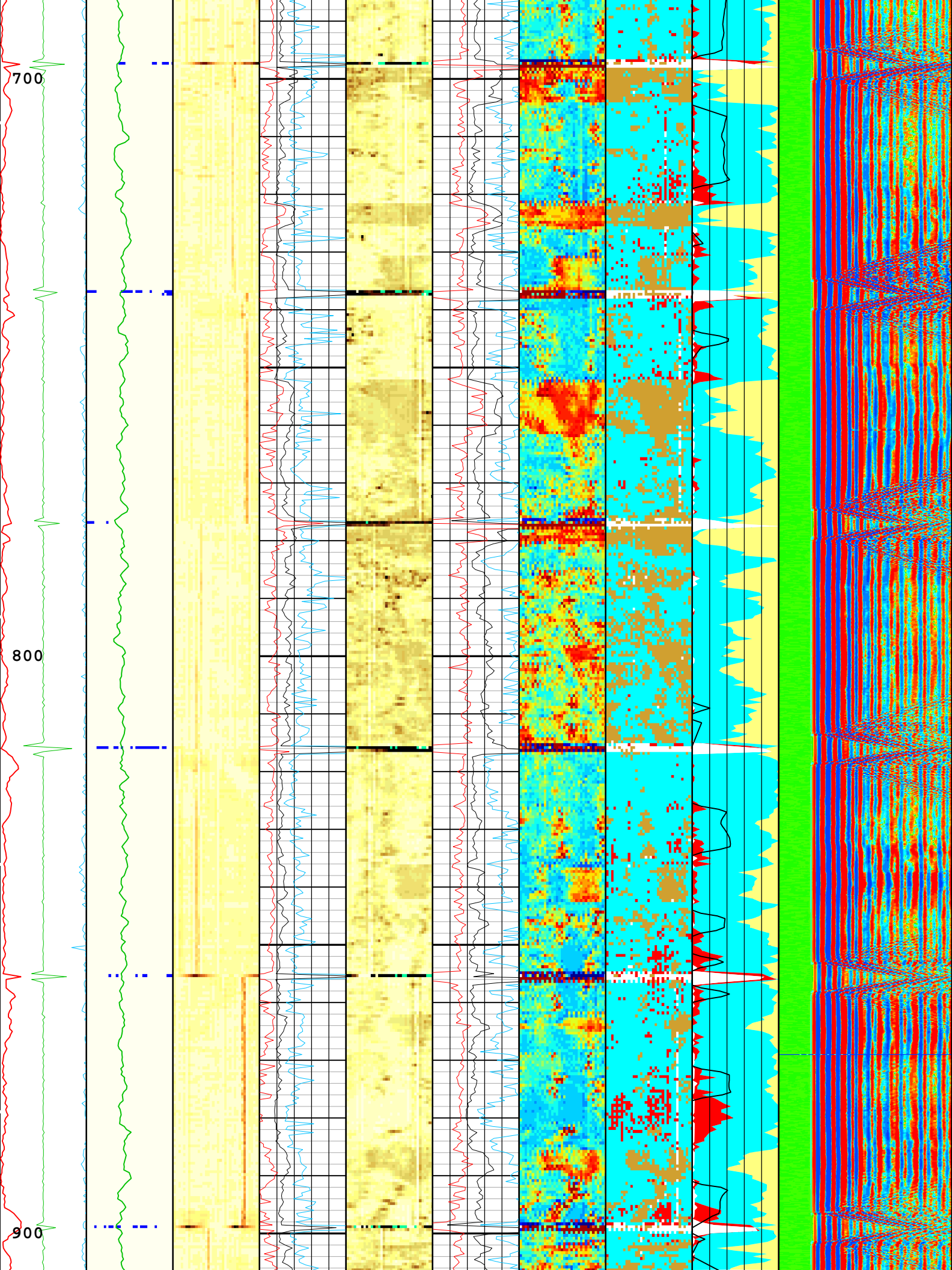
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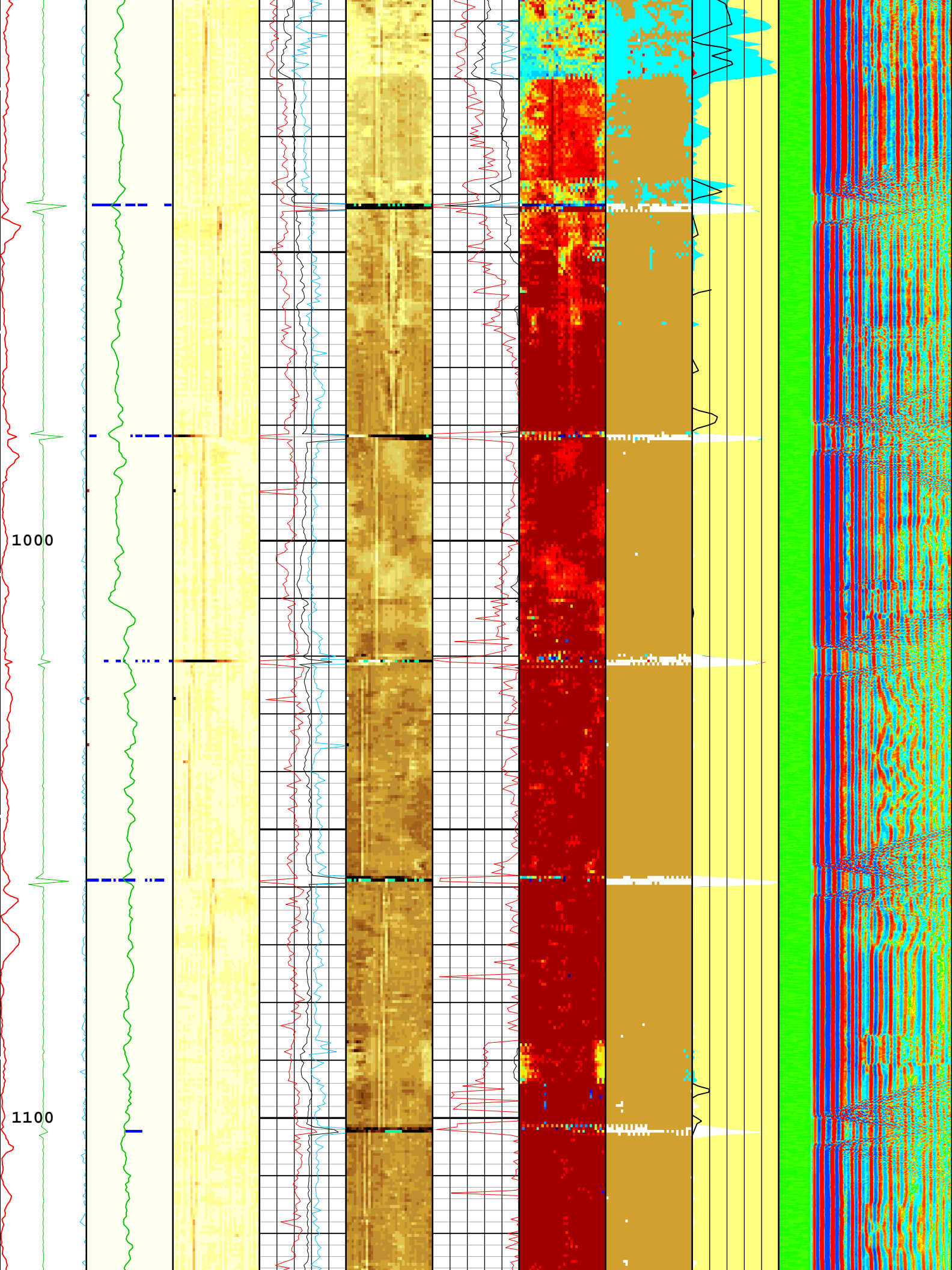
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

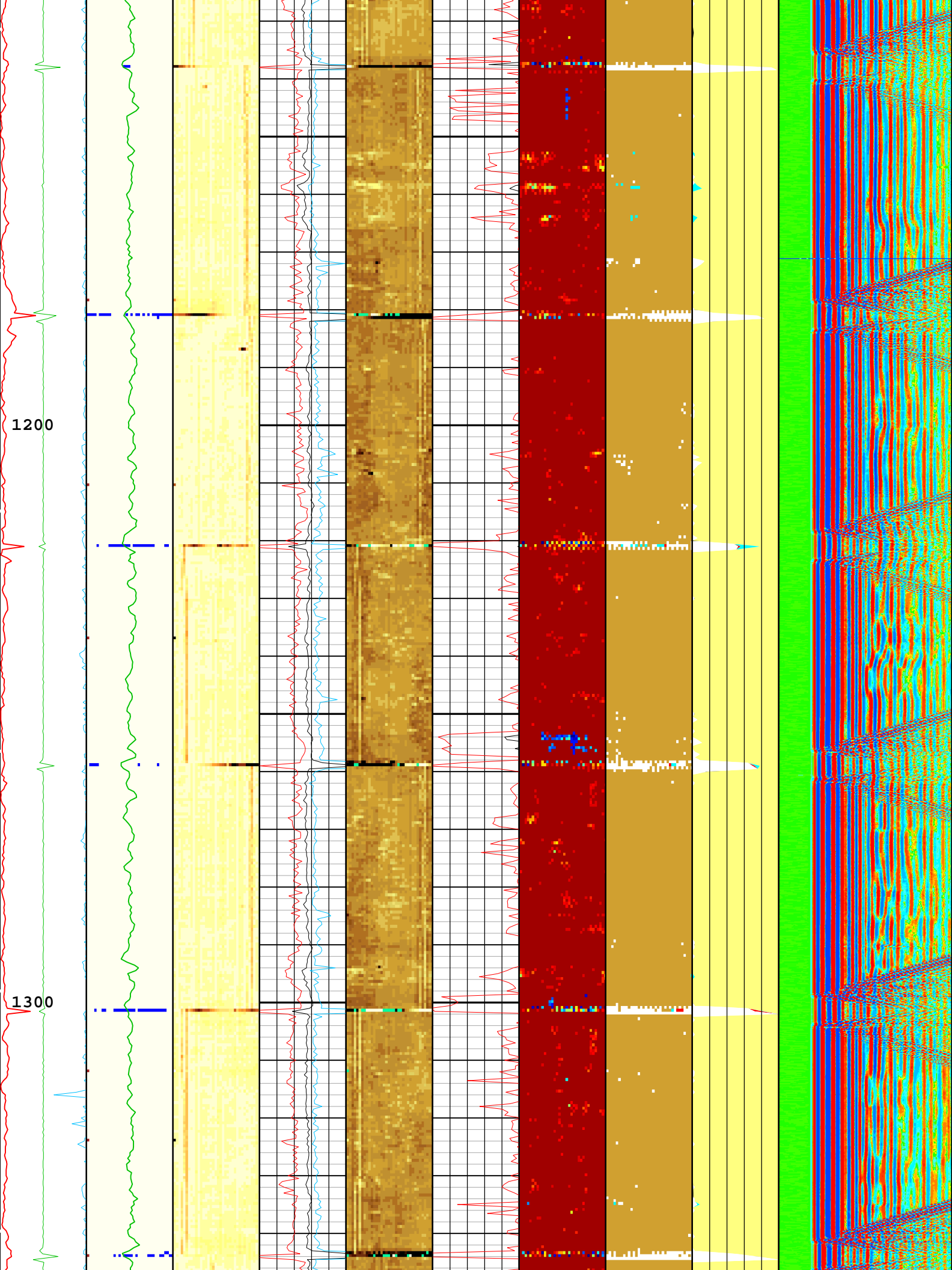
■ Loop Processing Error

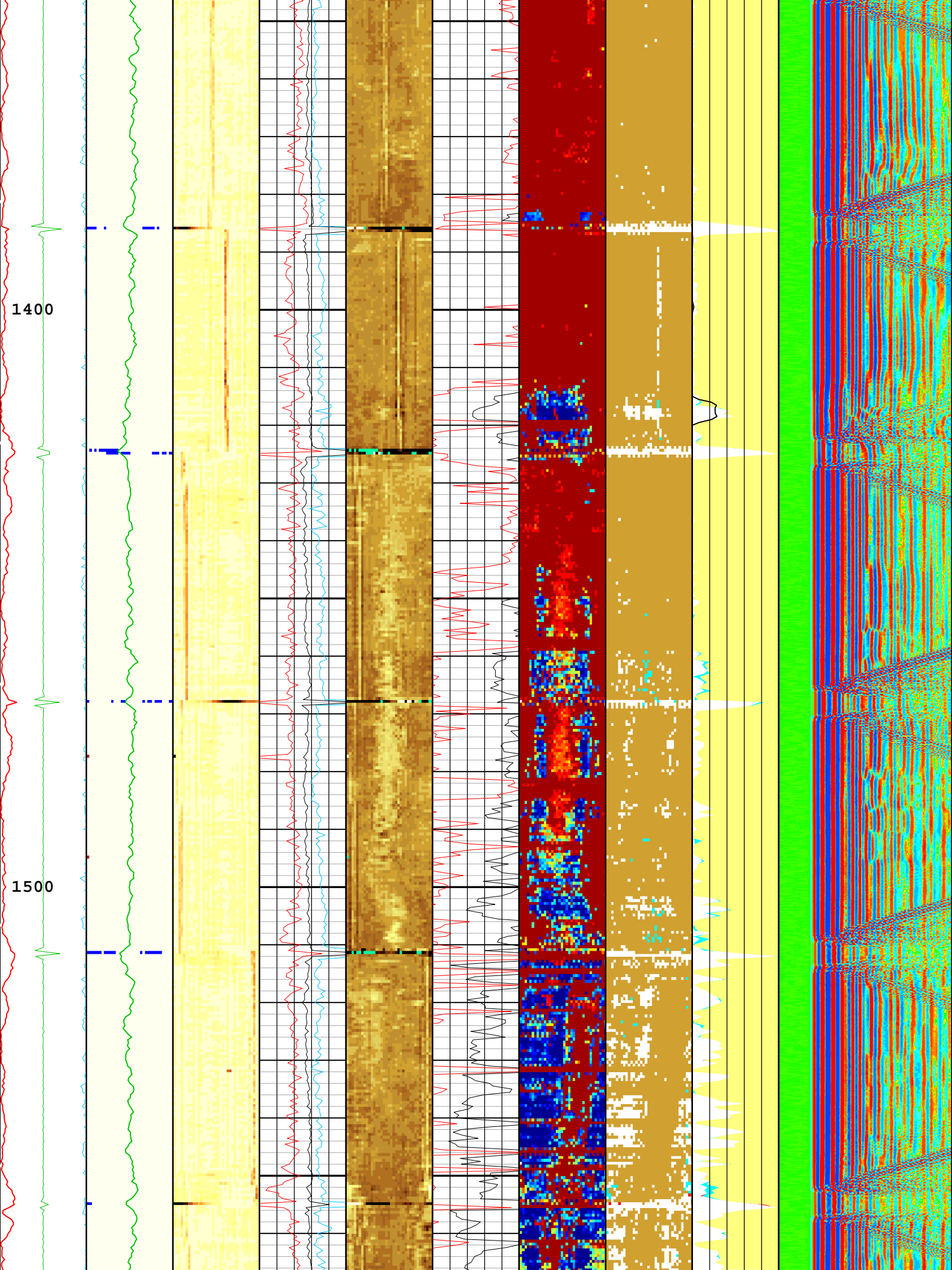


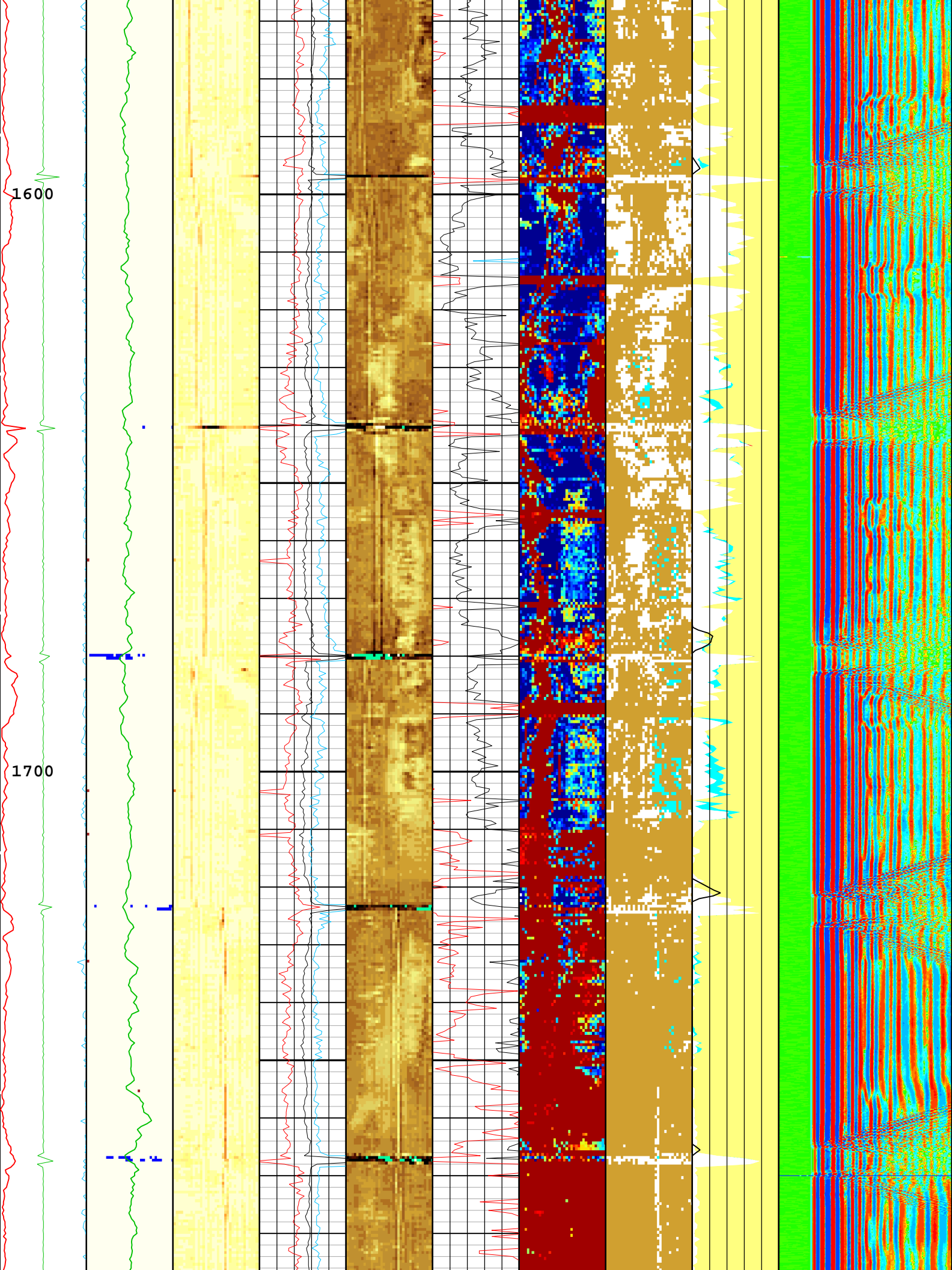


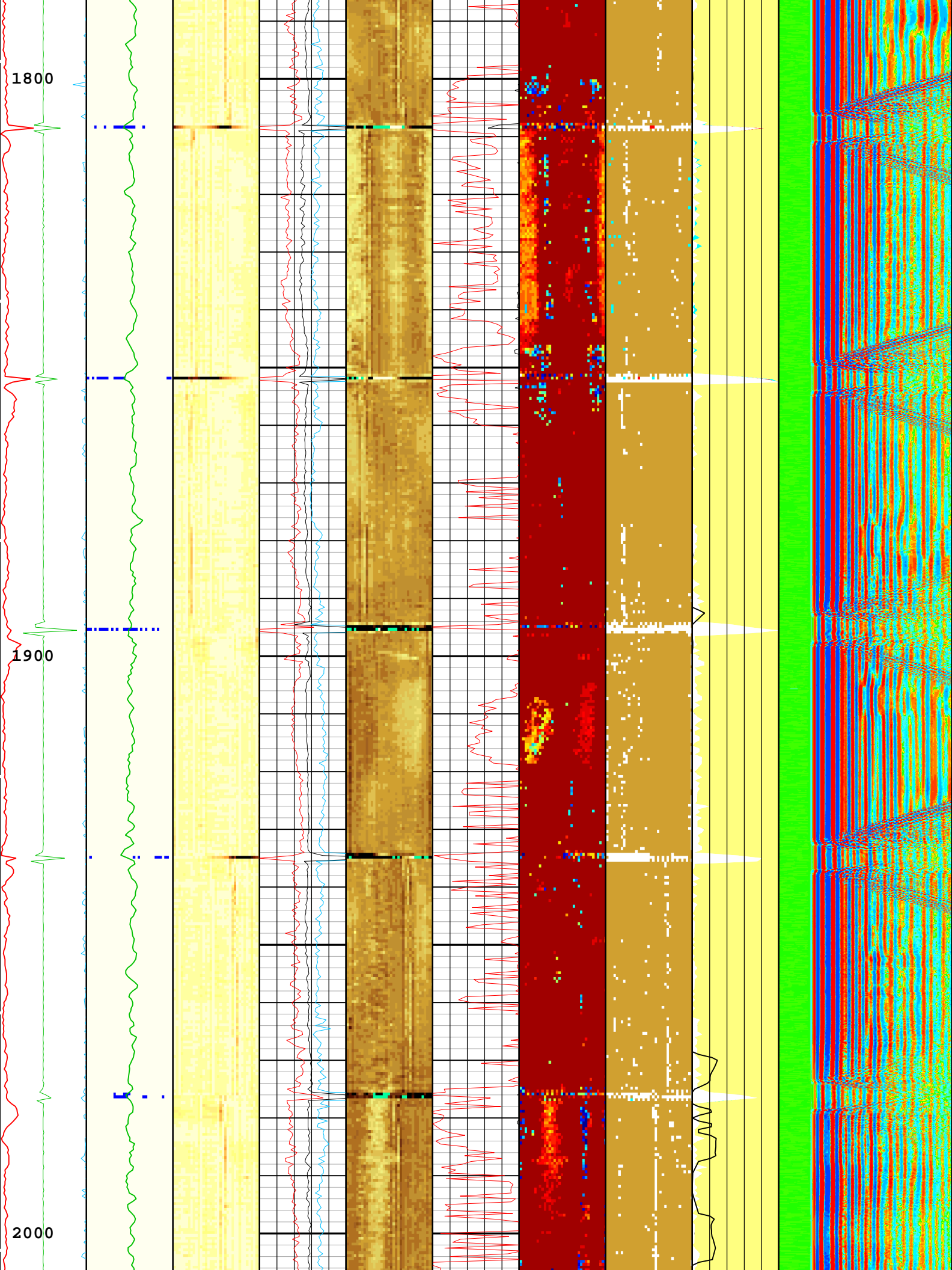


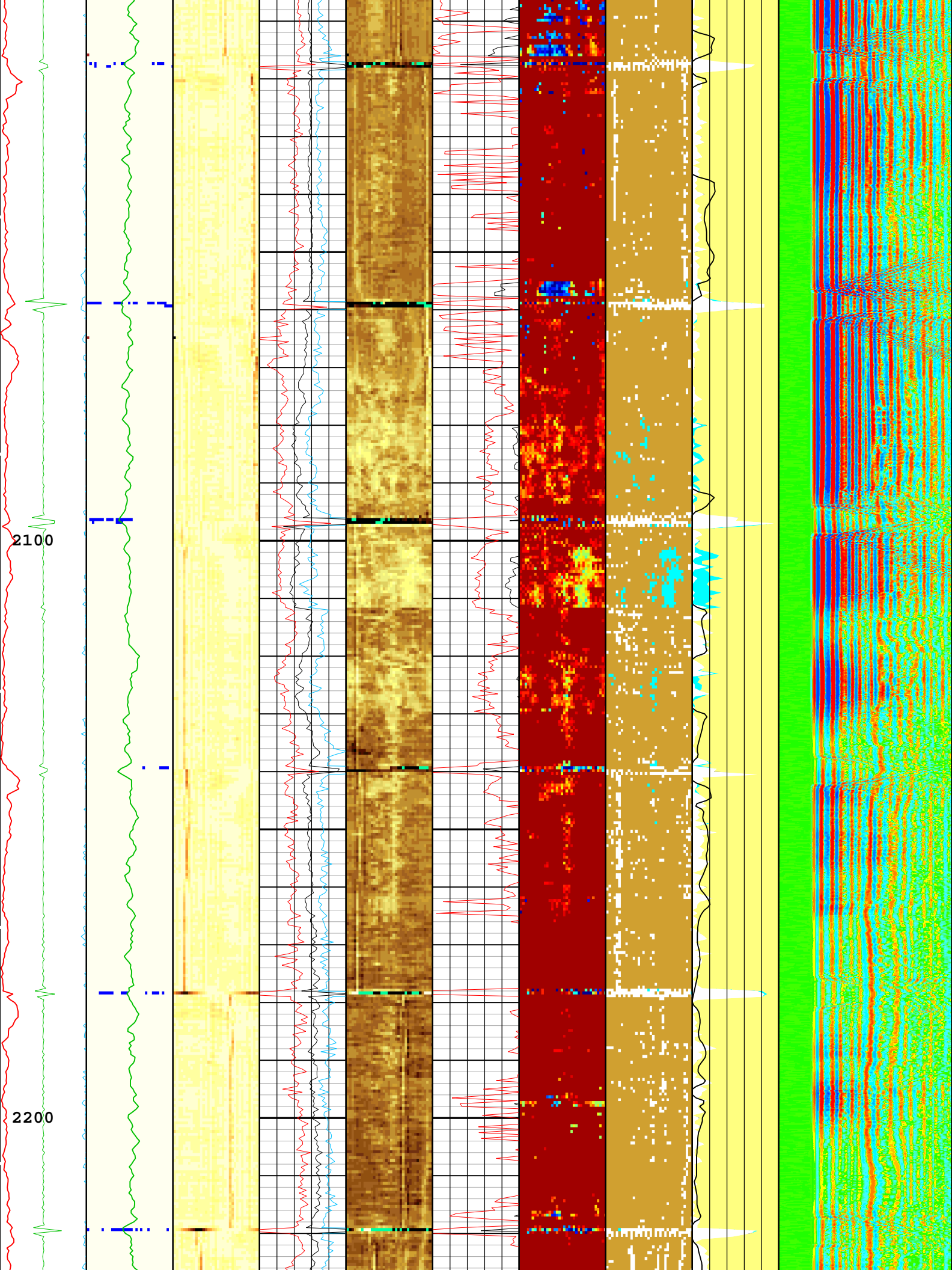


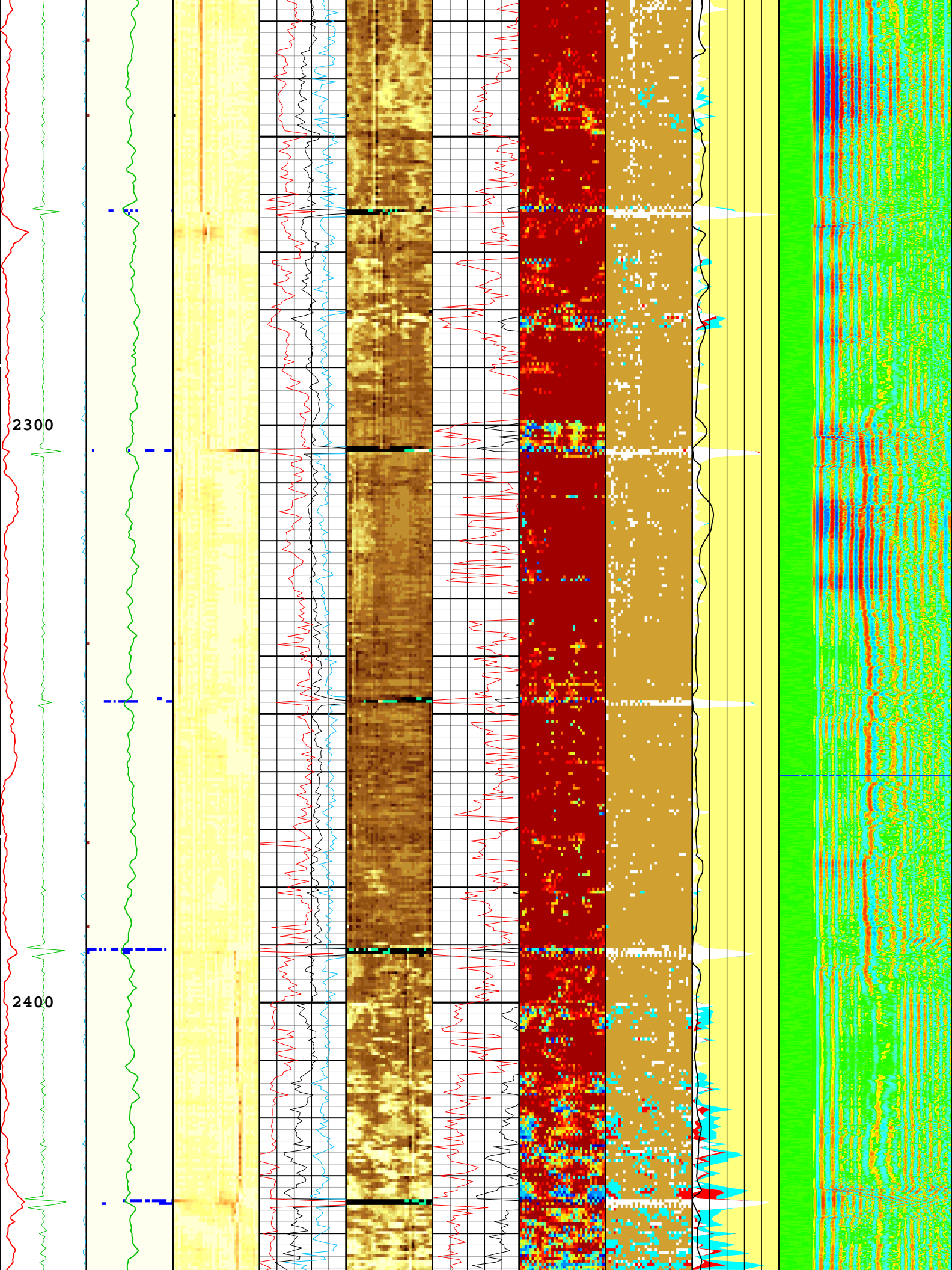


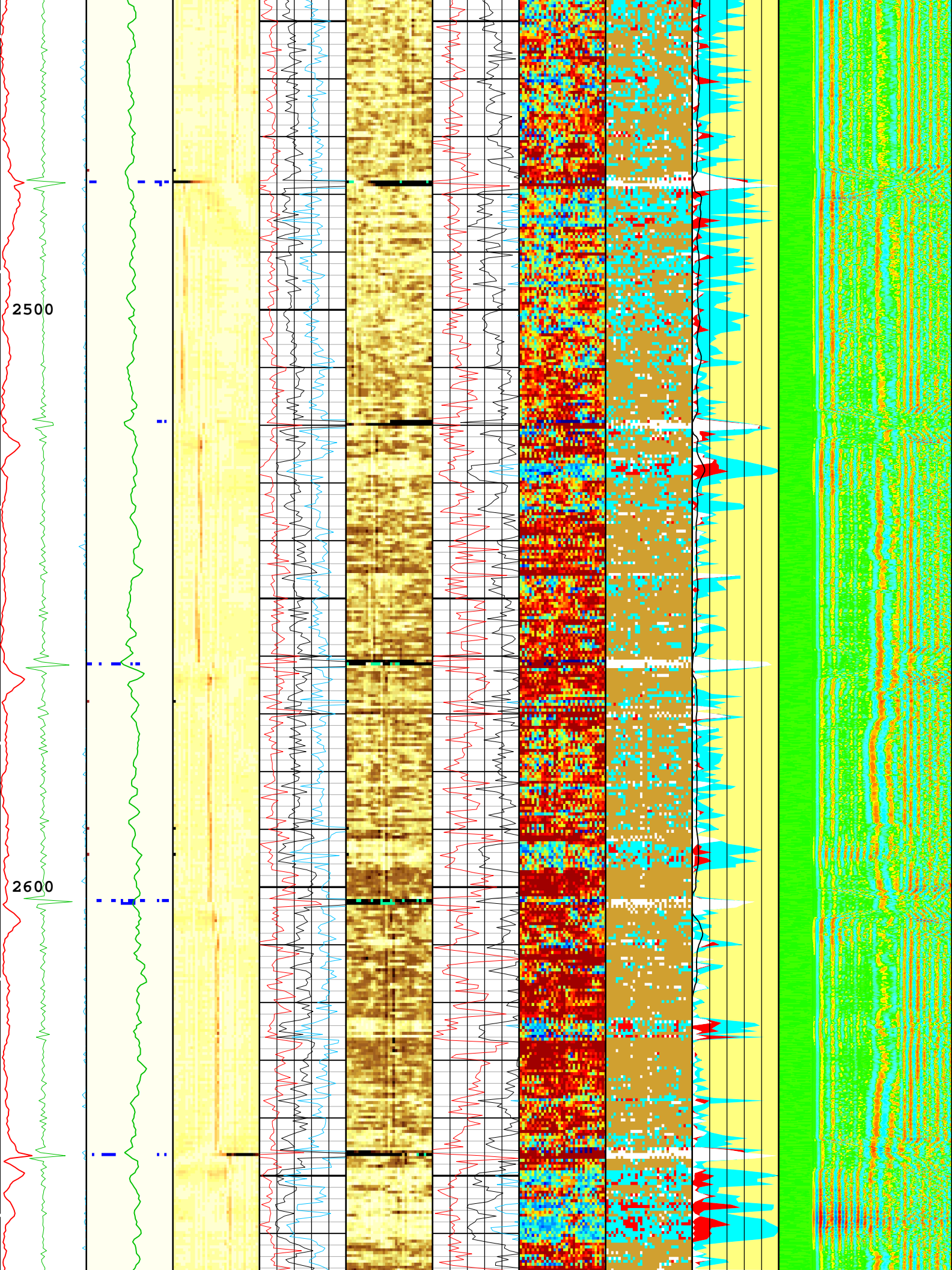


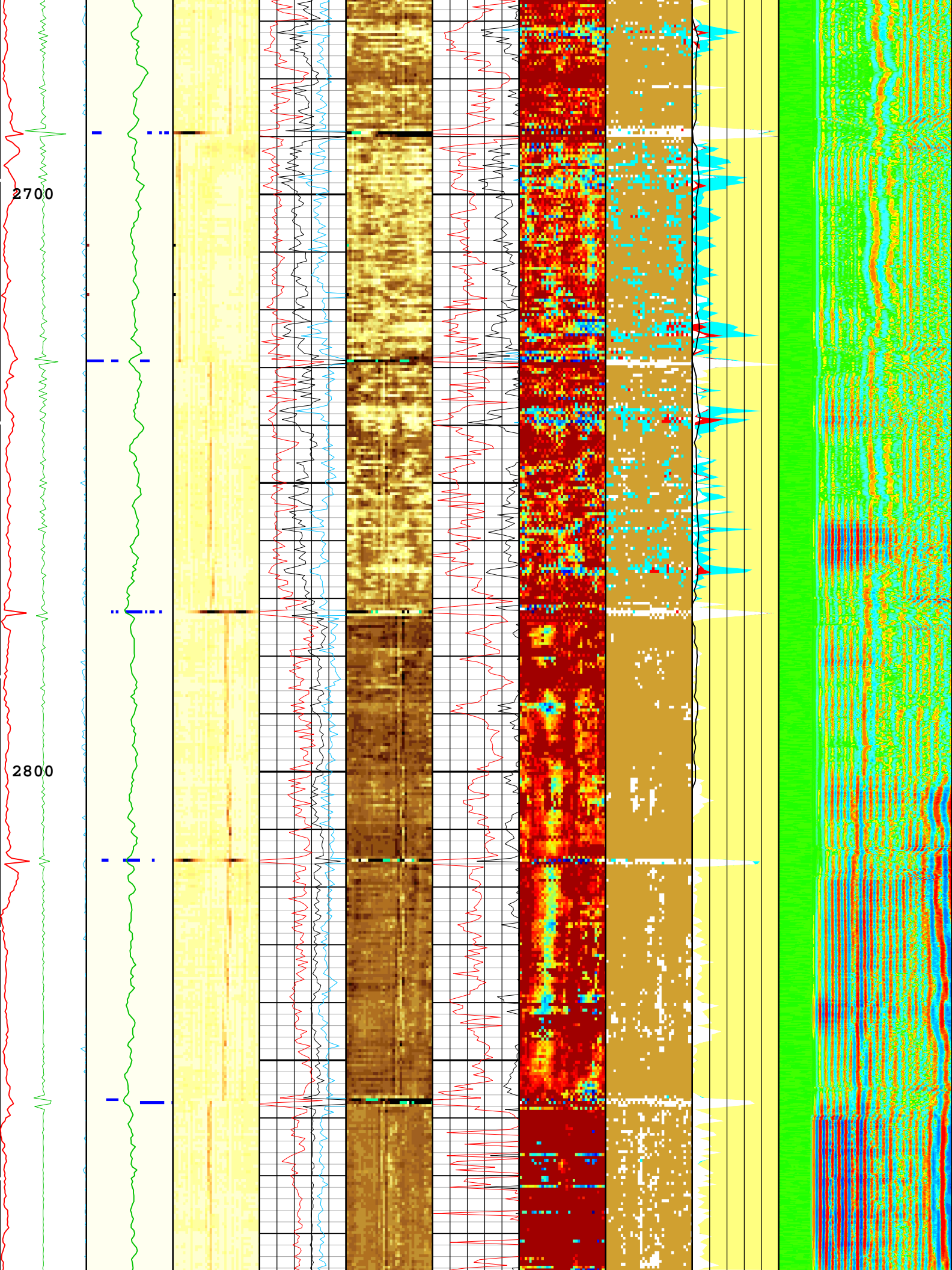


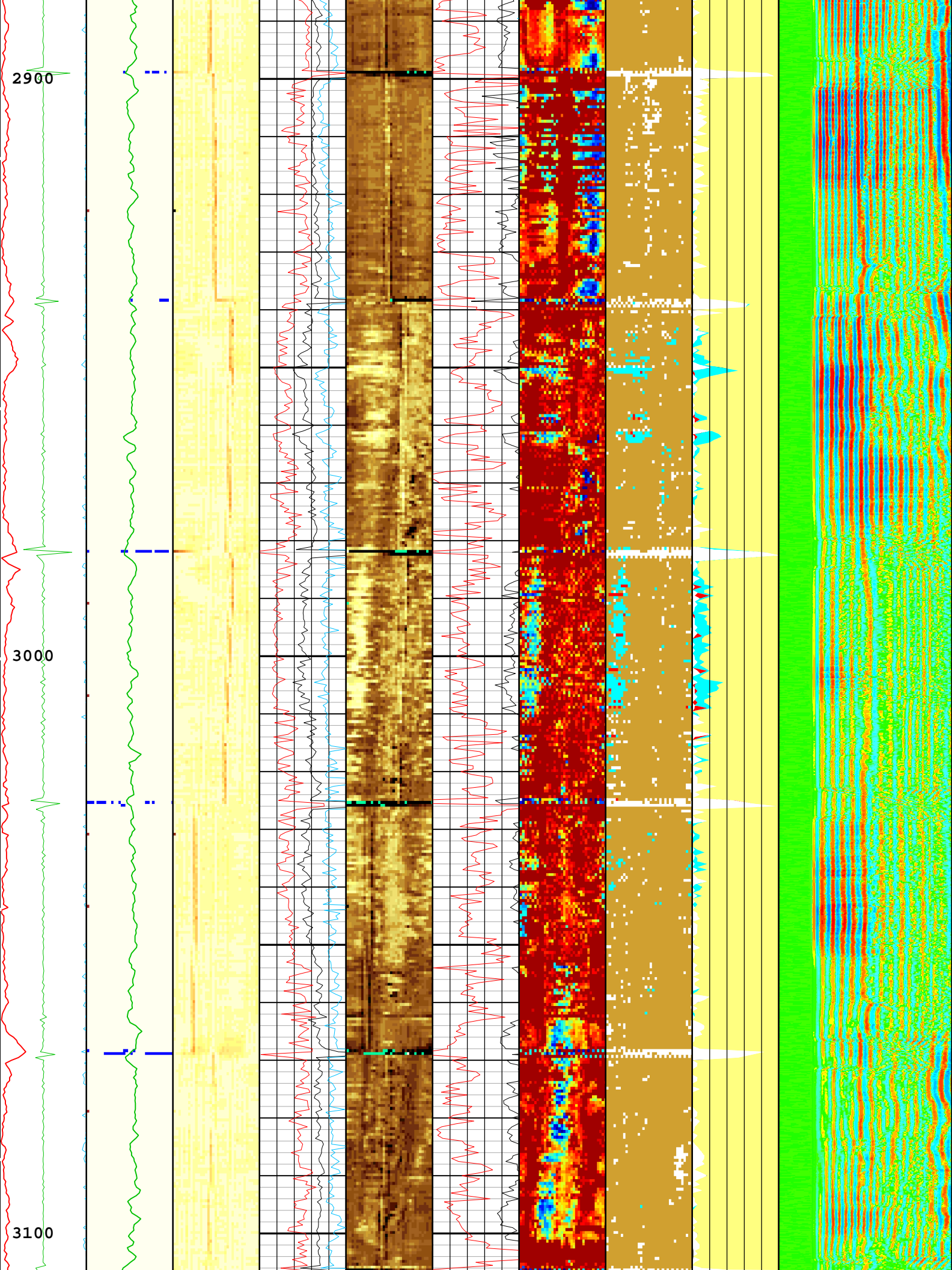


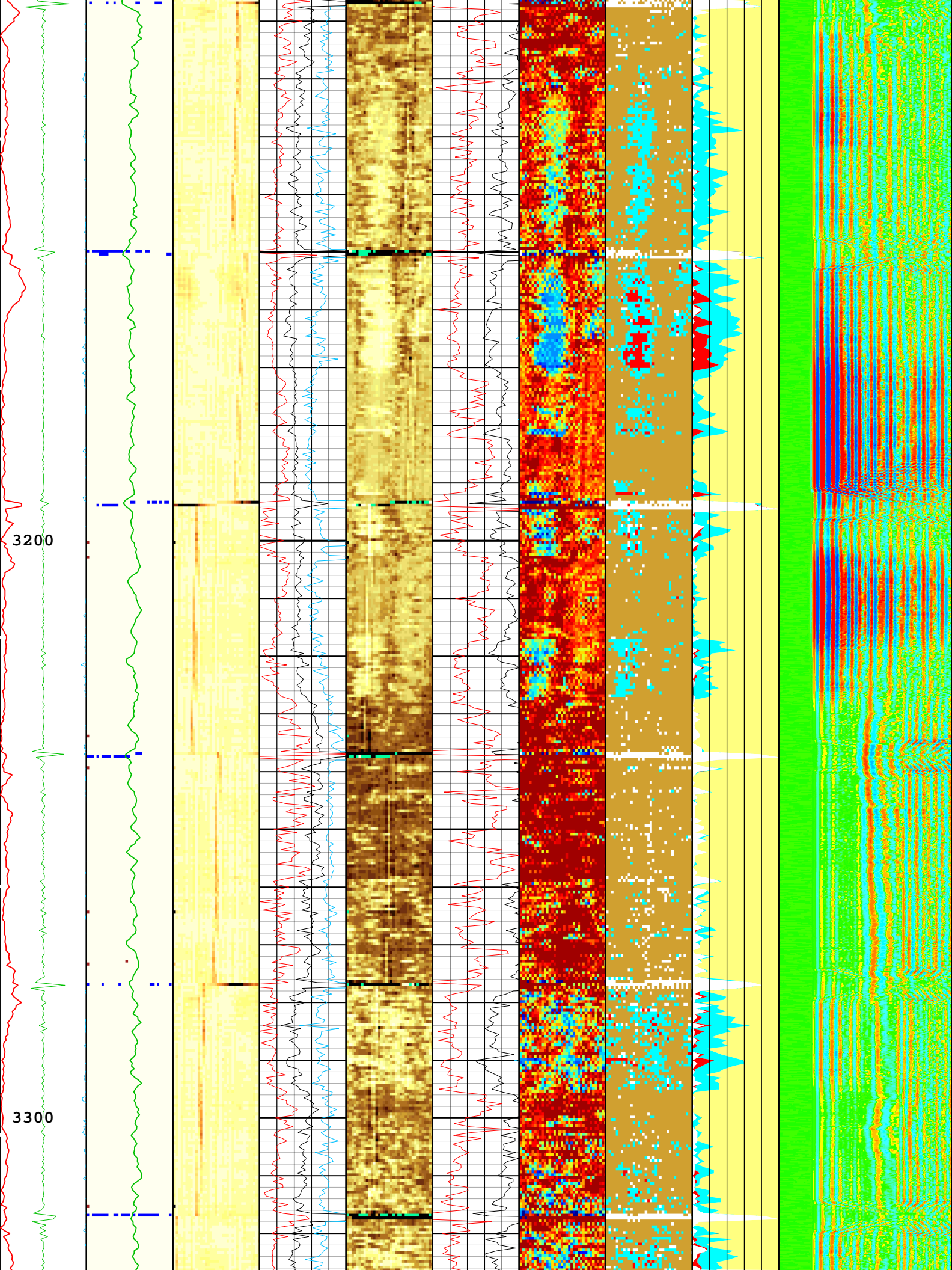


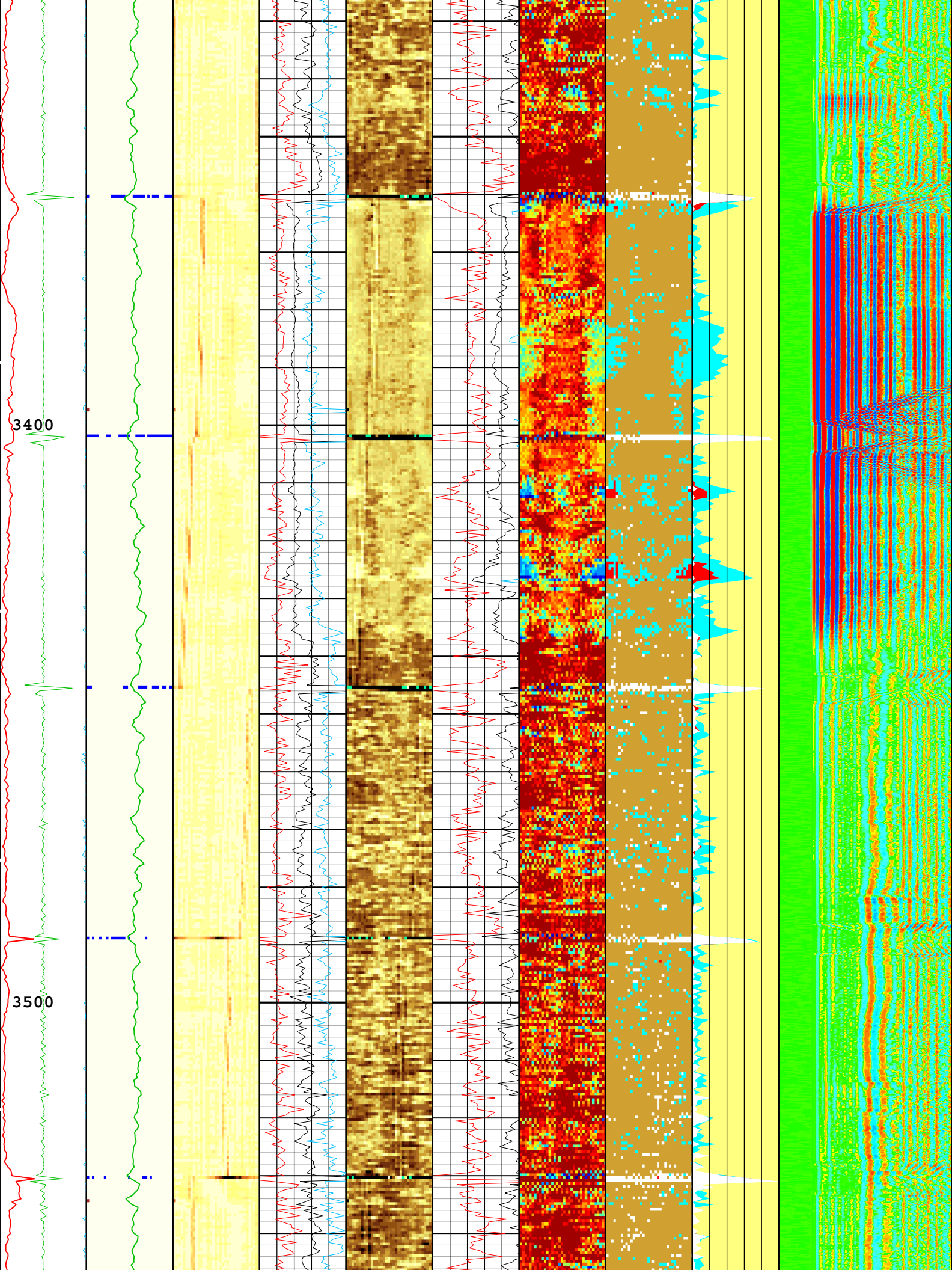


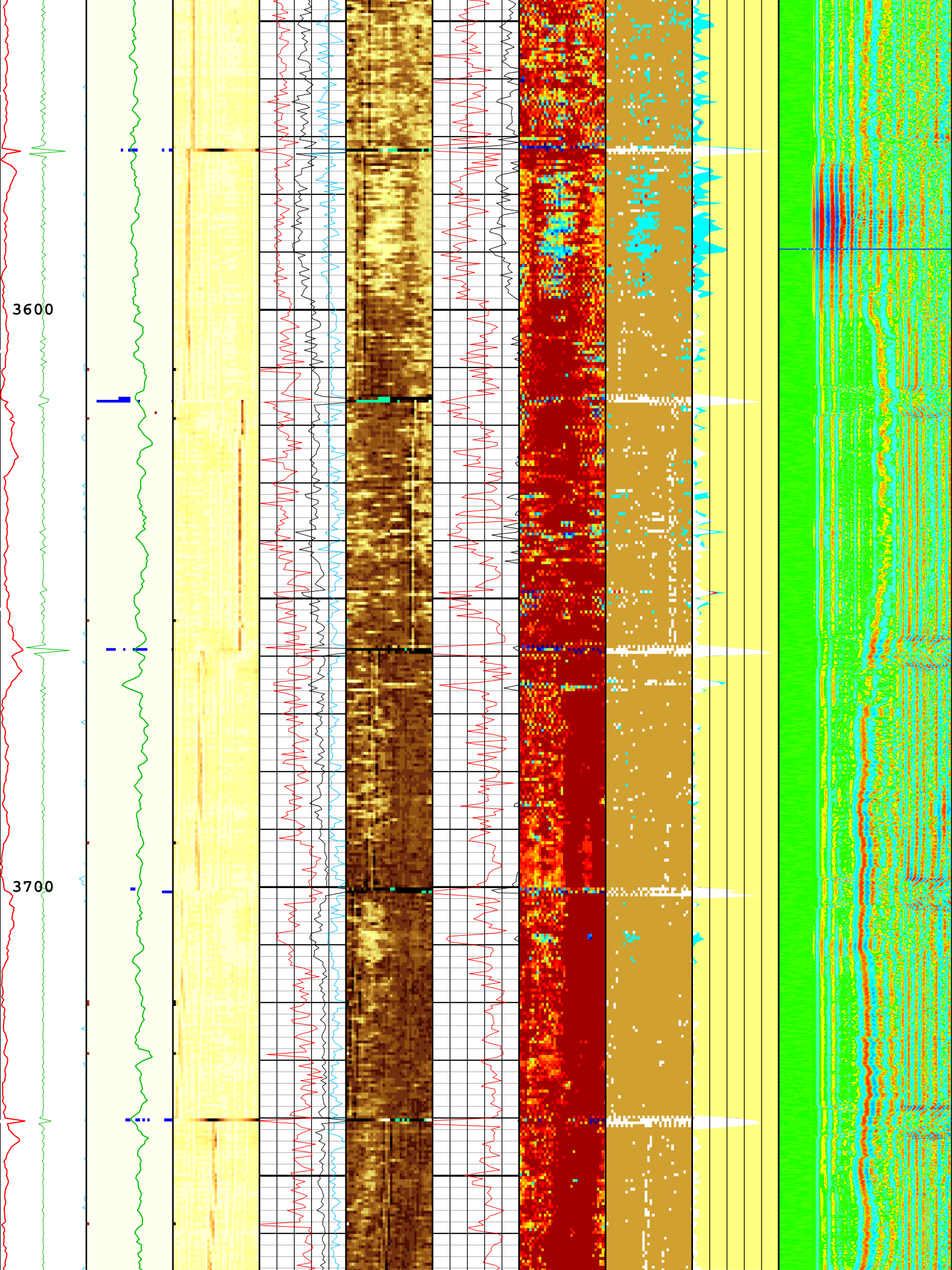


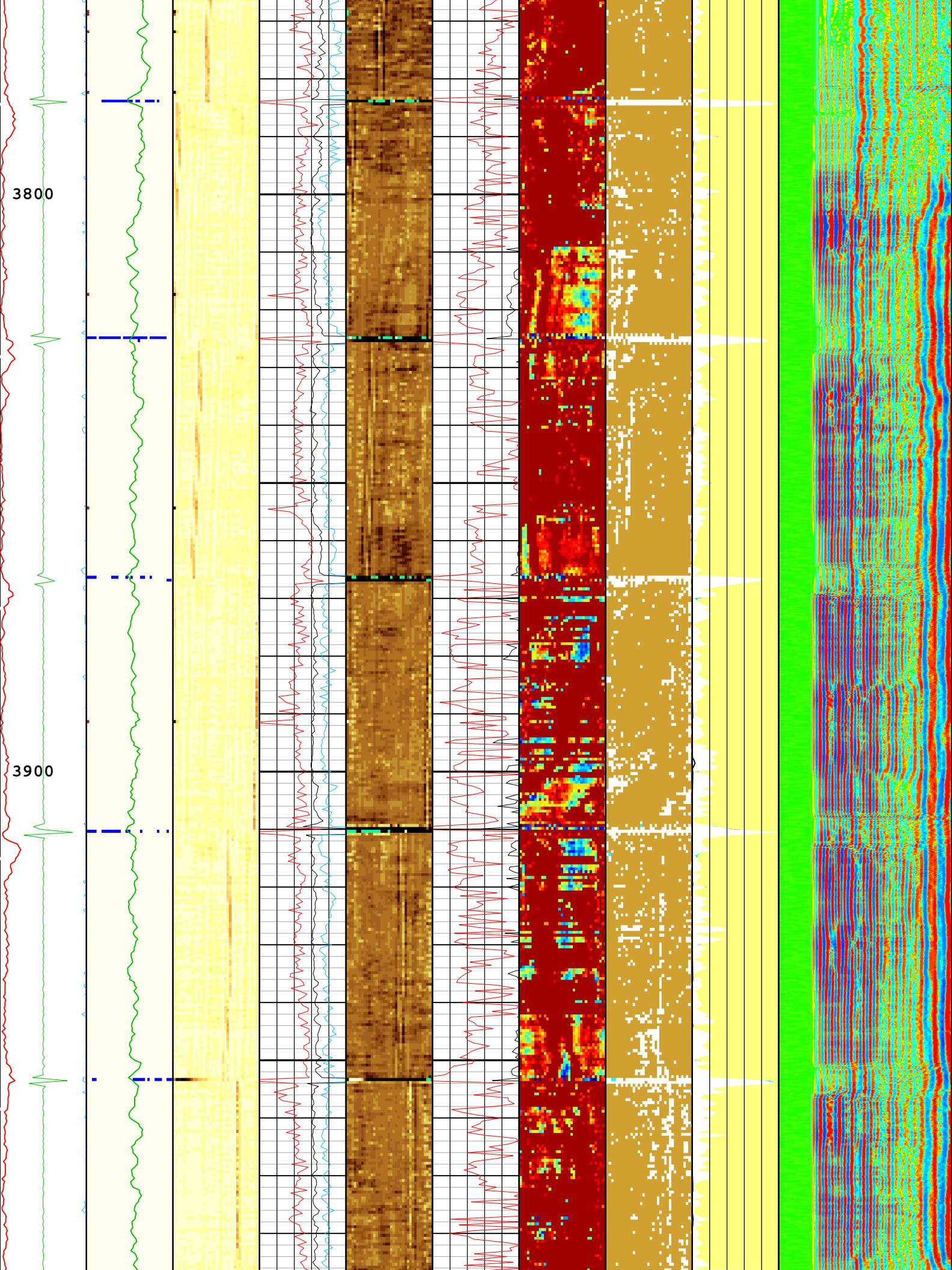


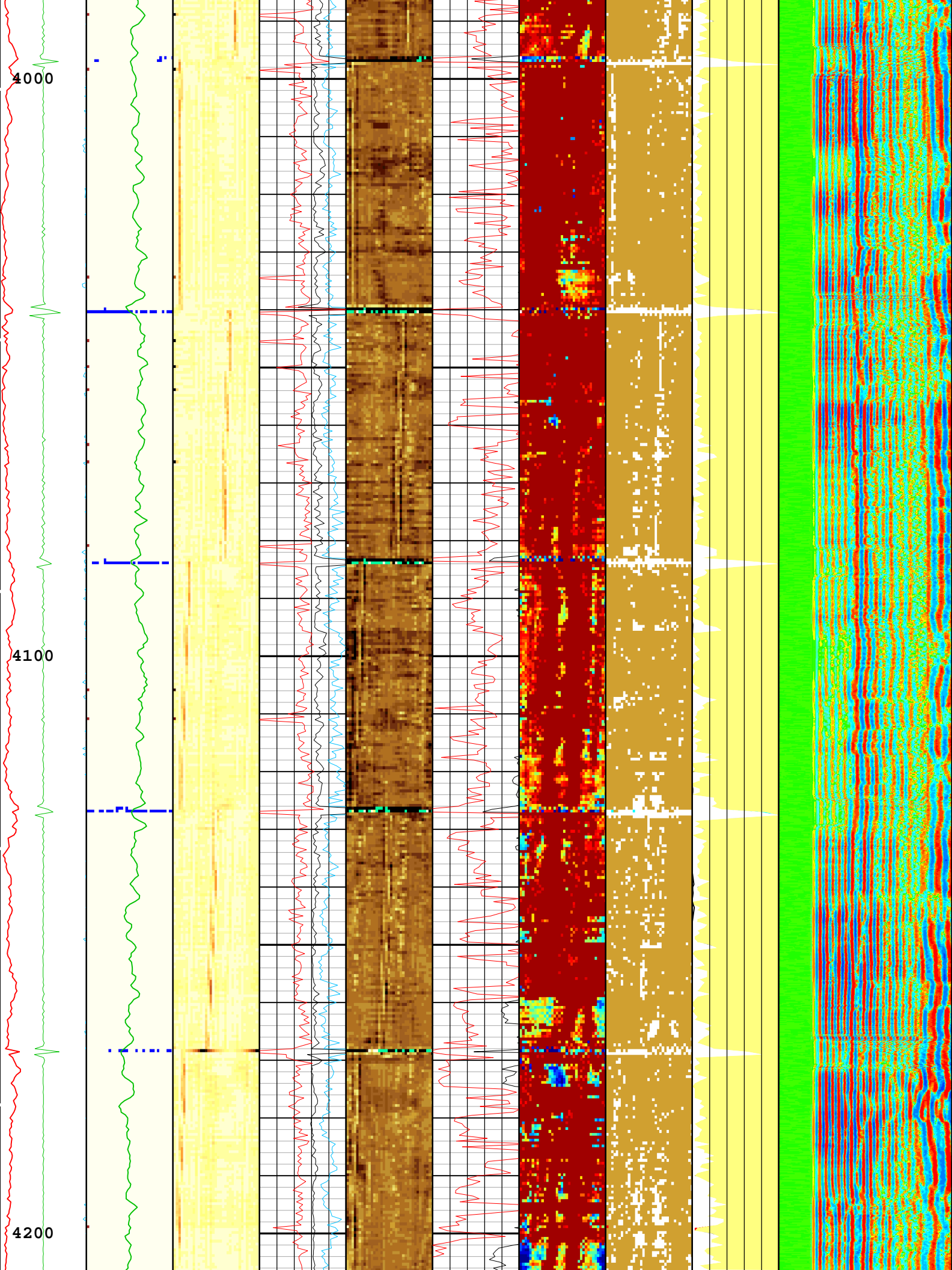


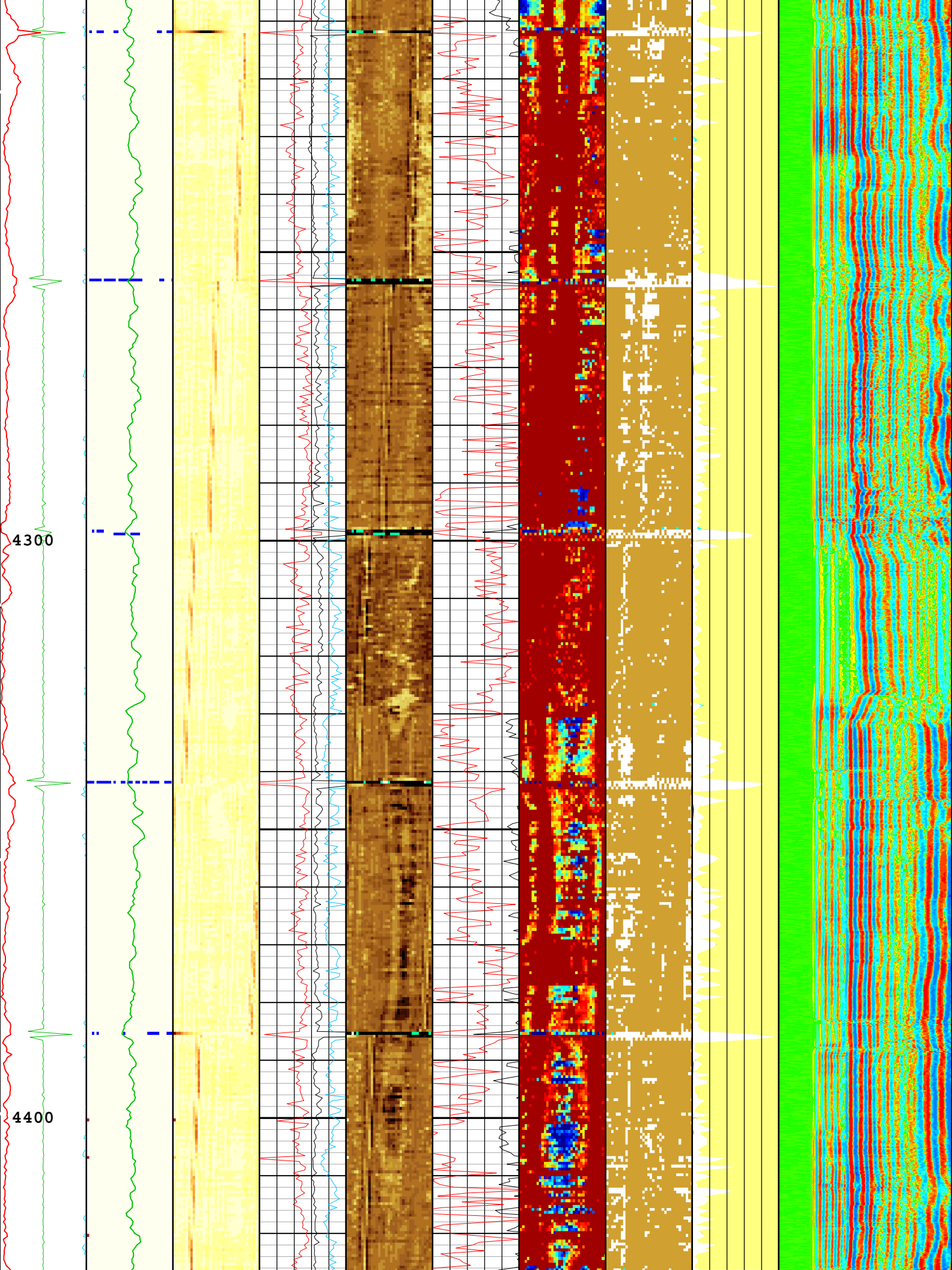


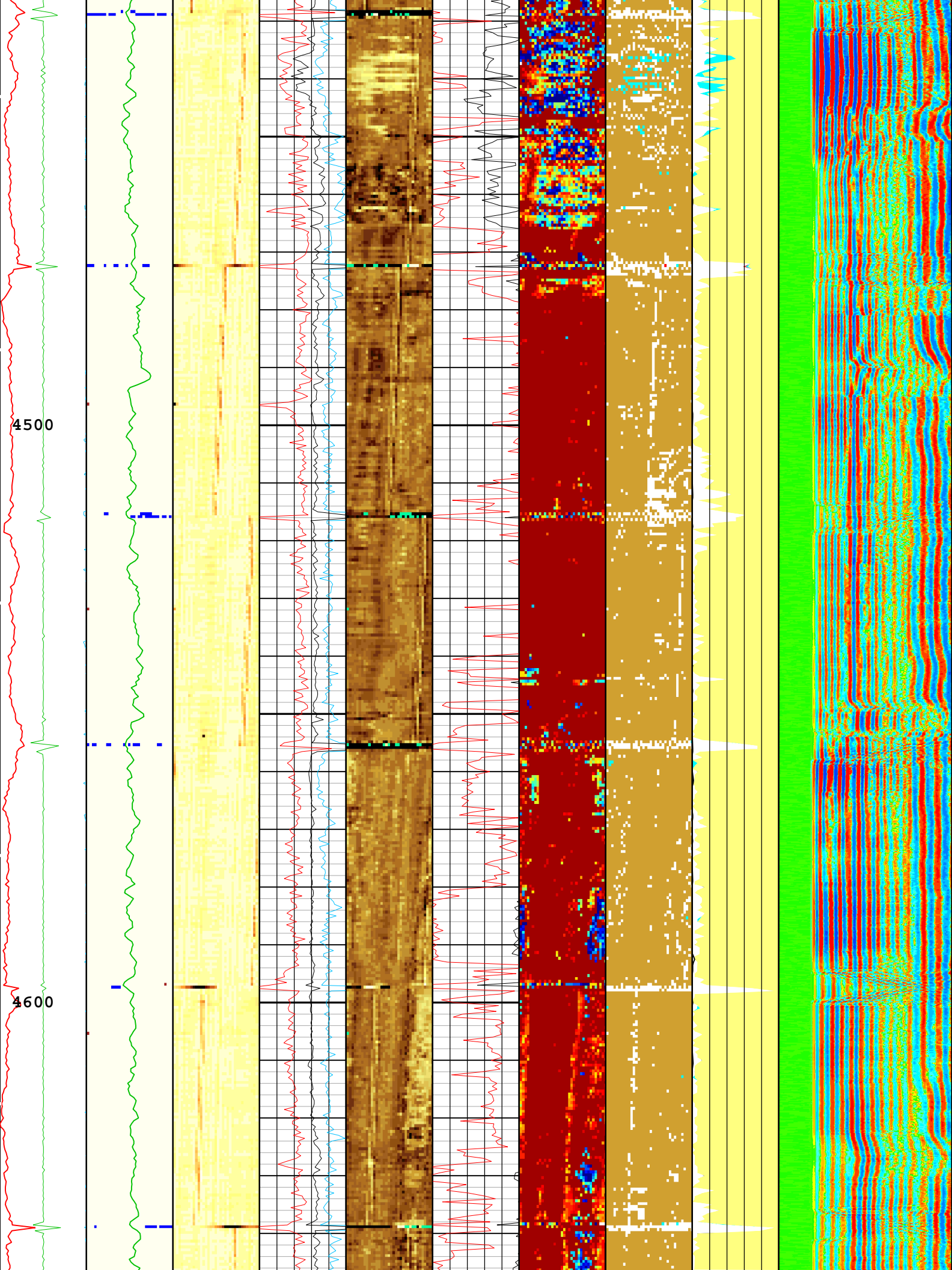


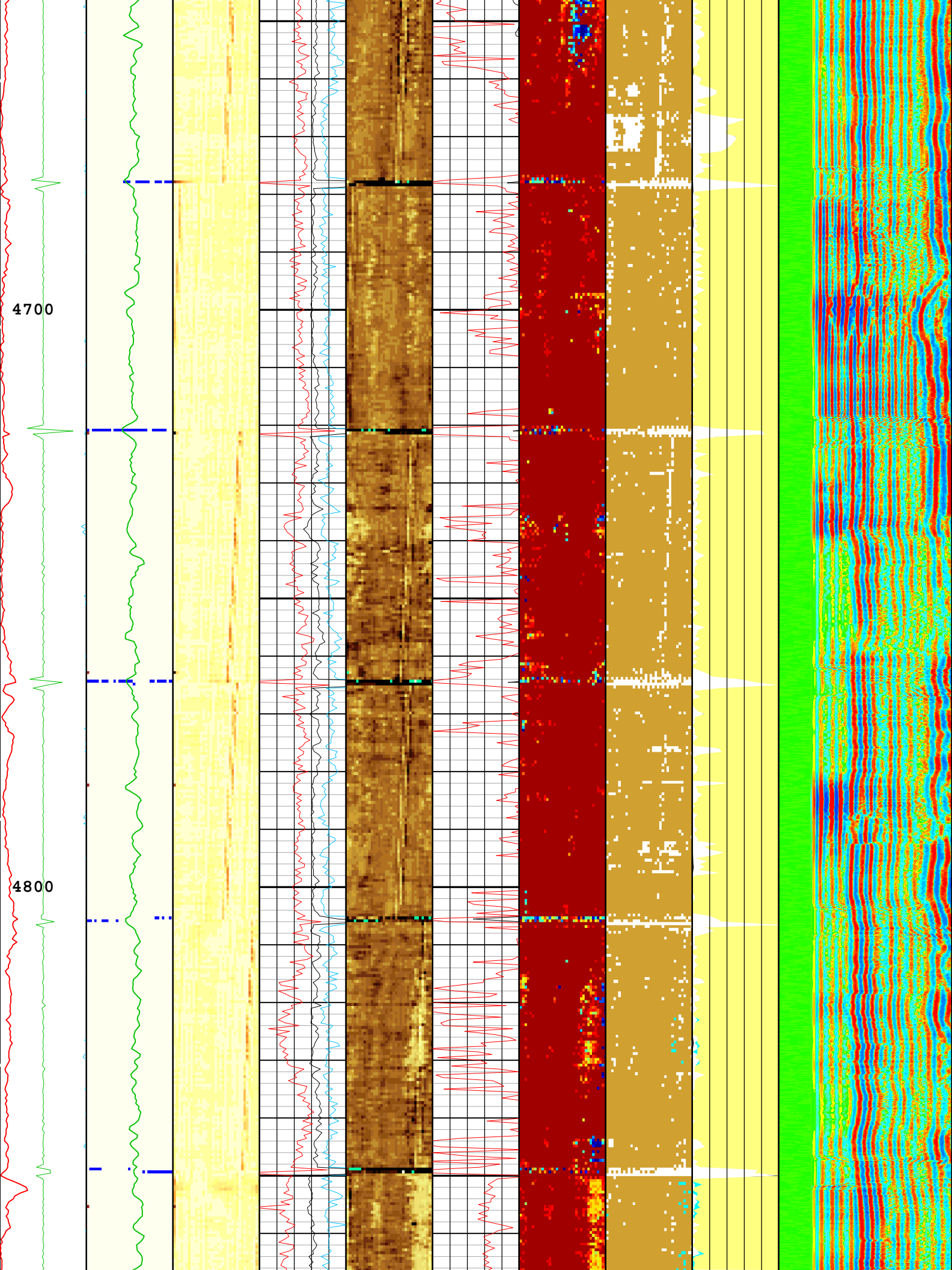


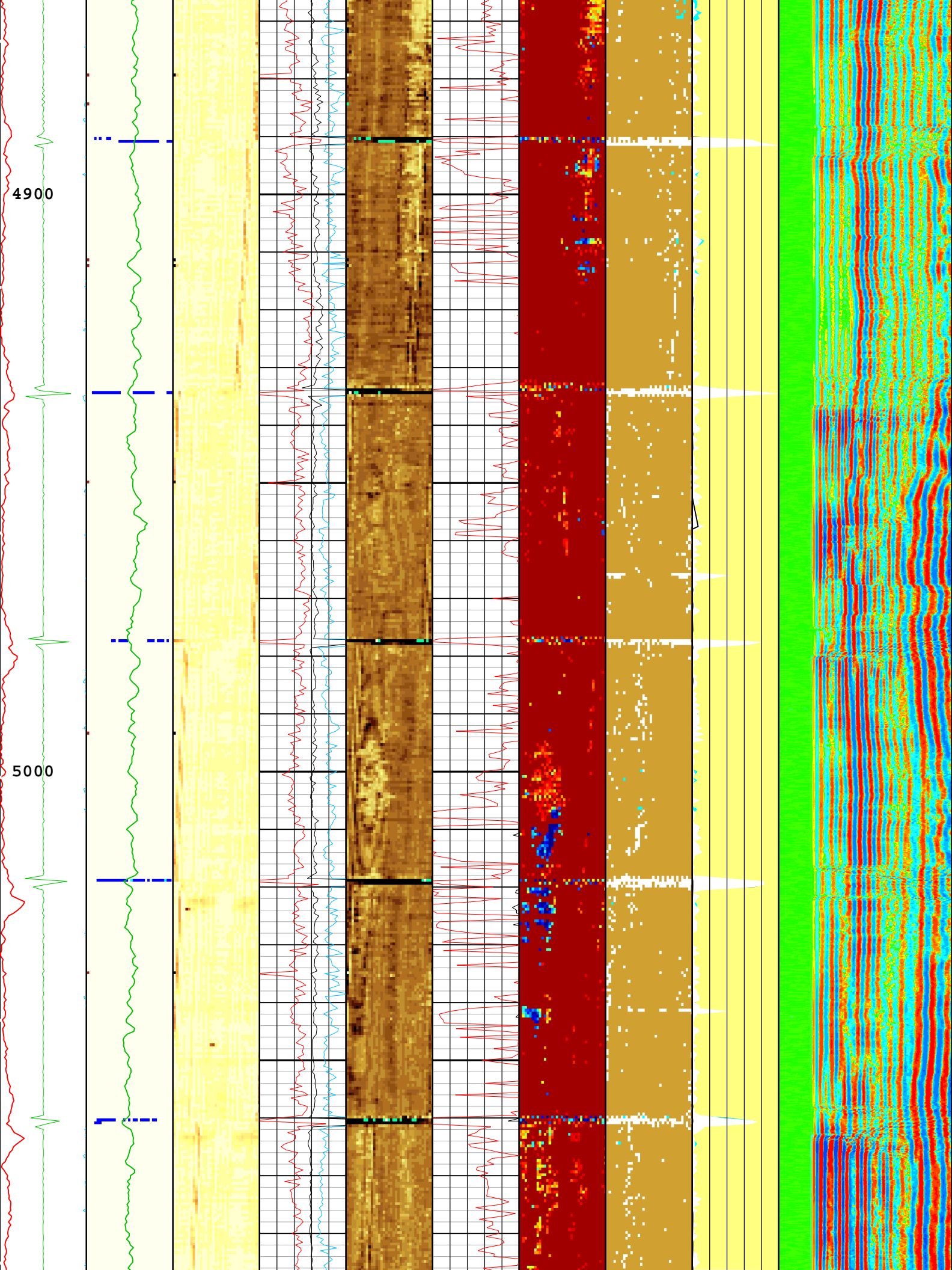


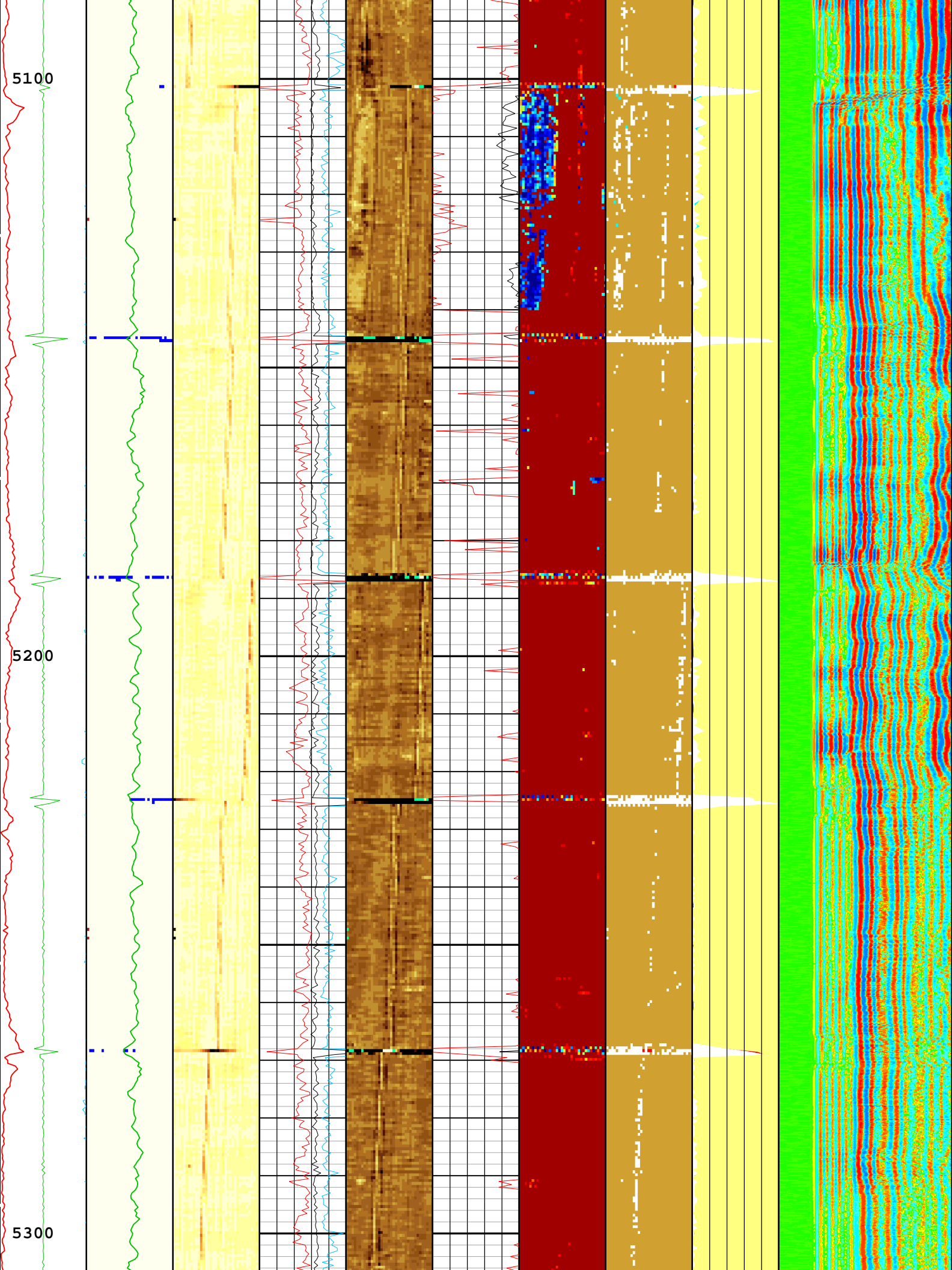


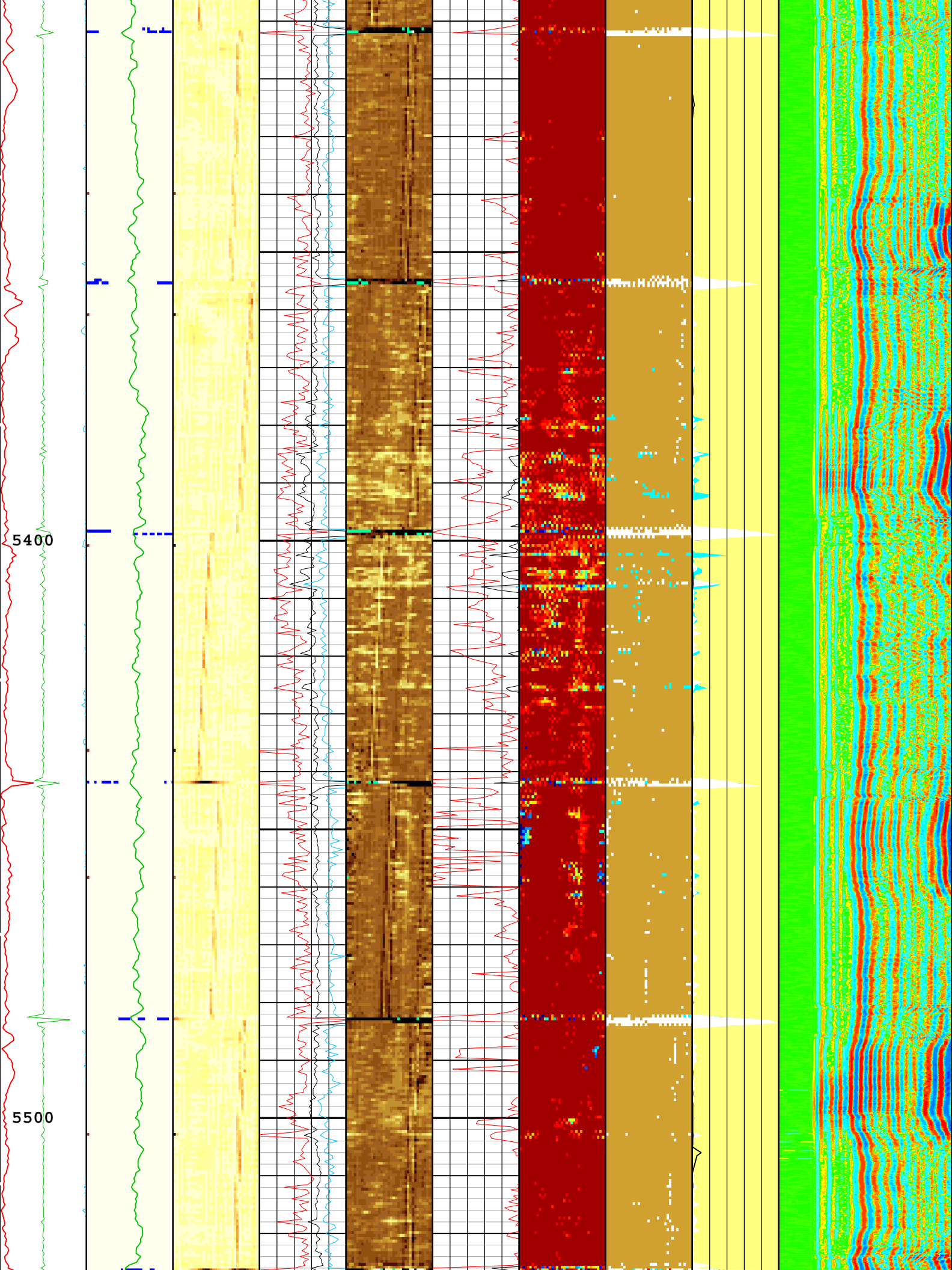


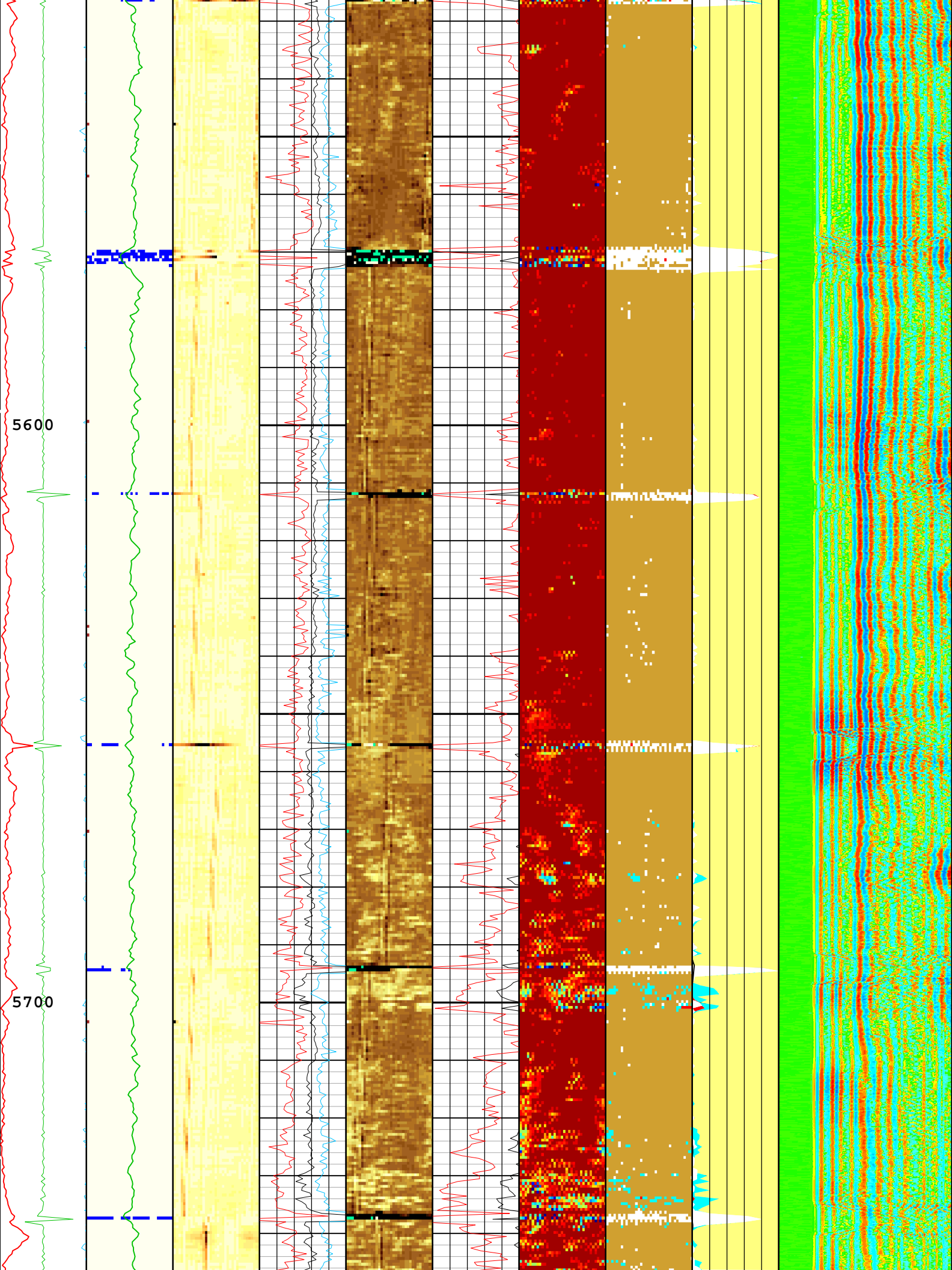


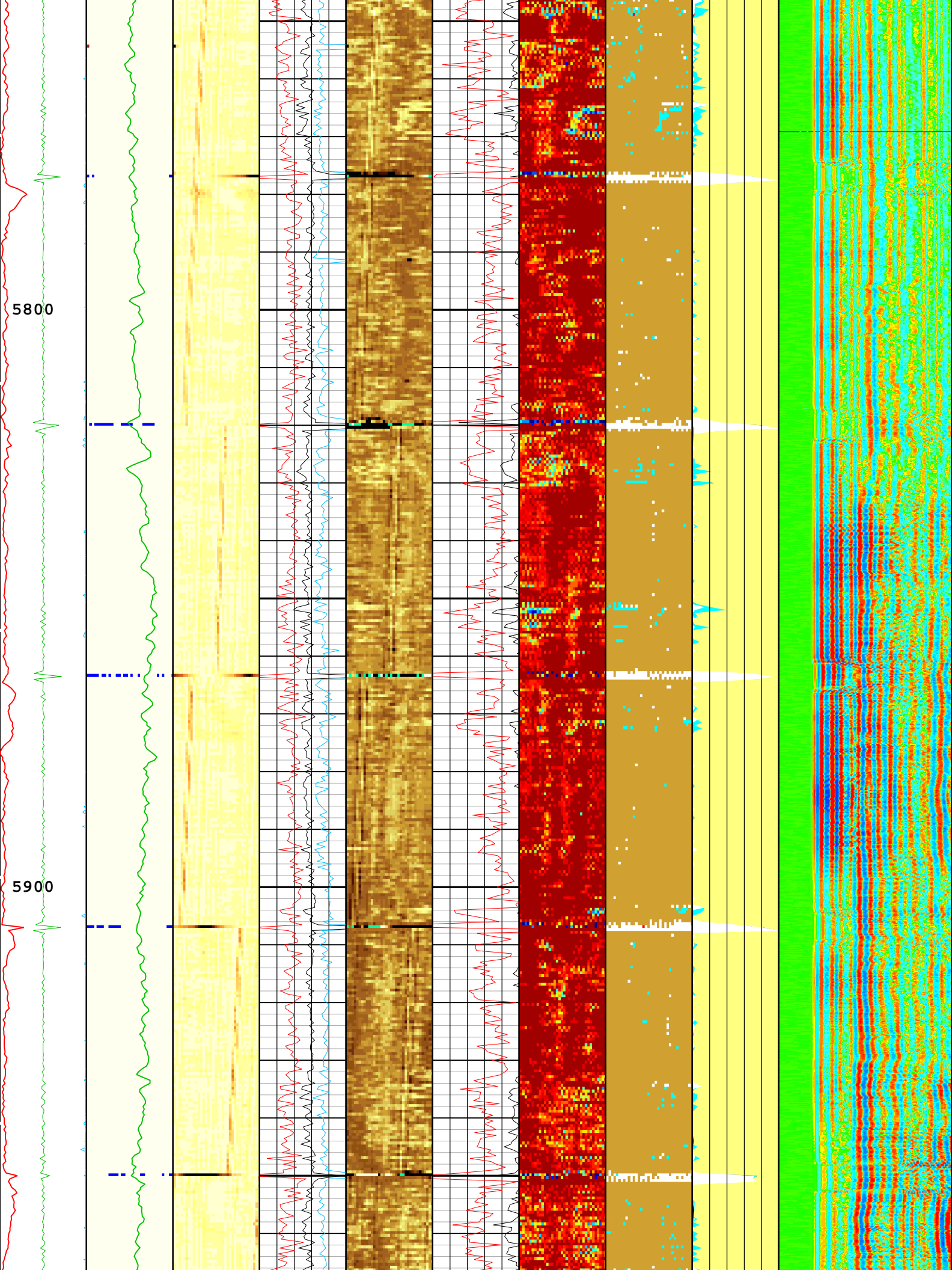


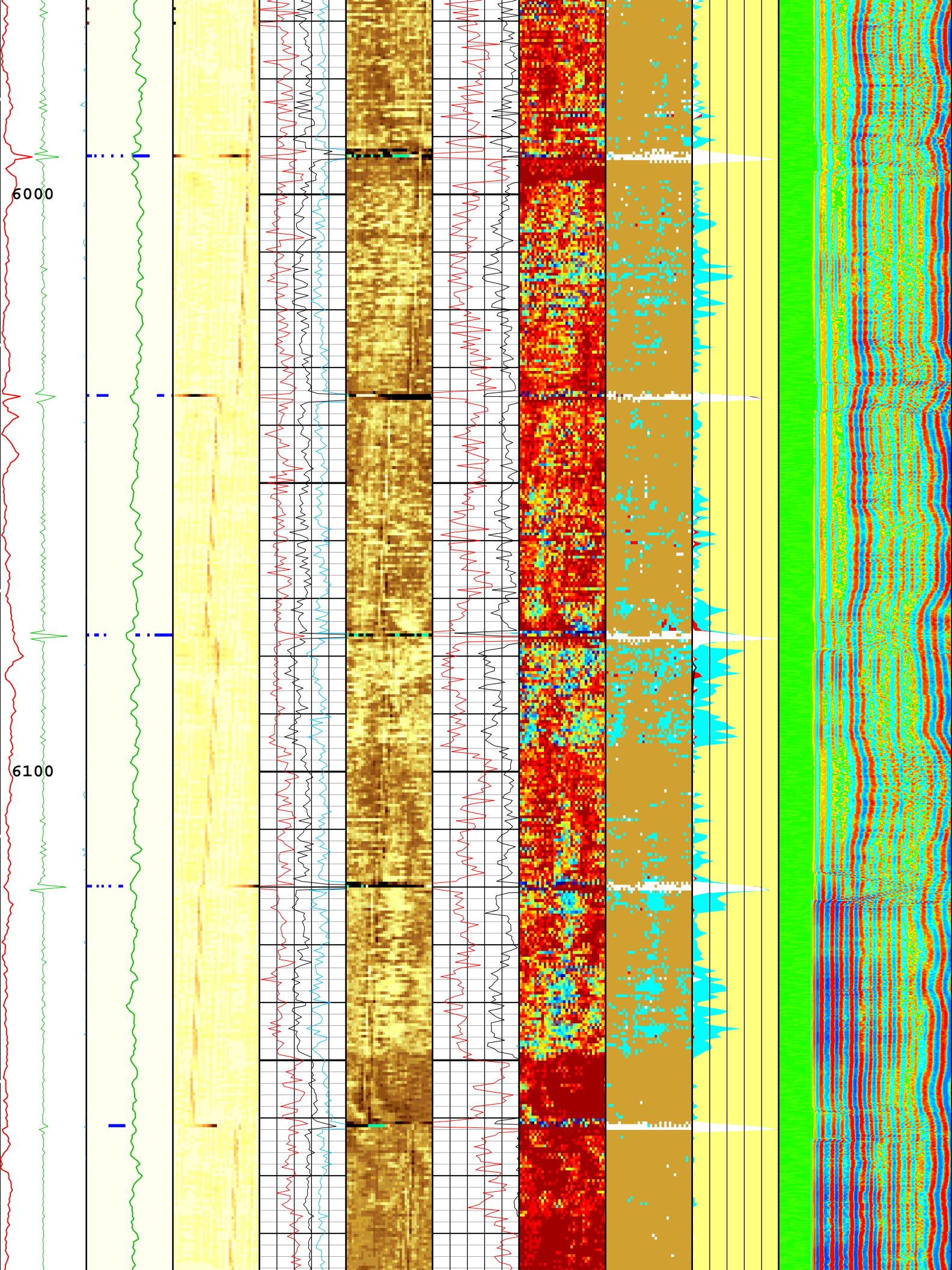


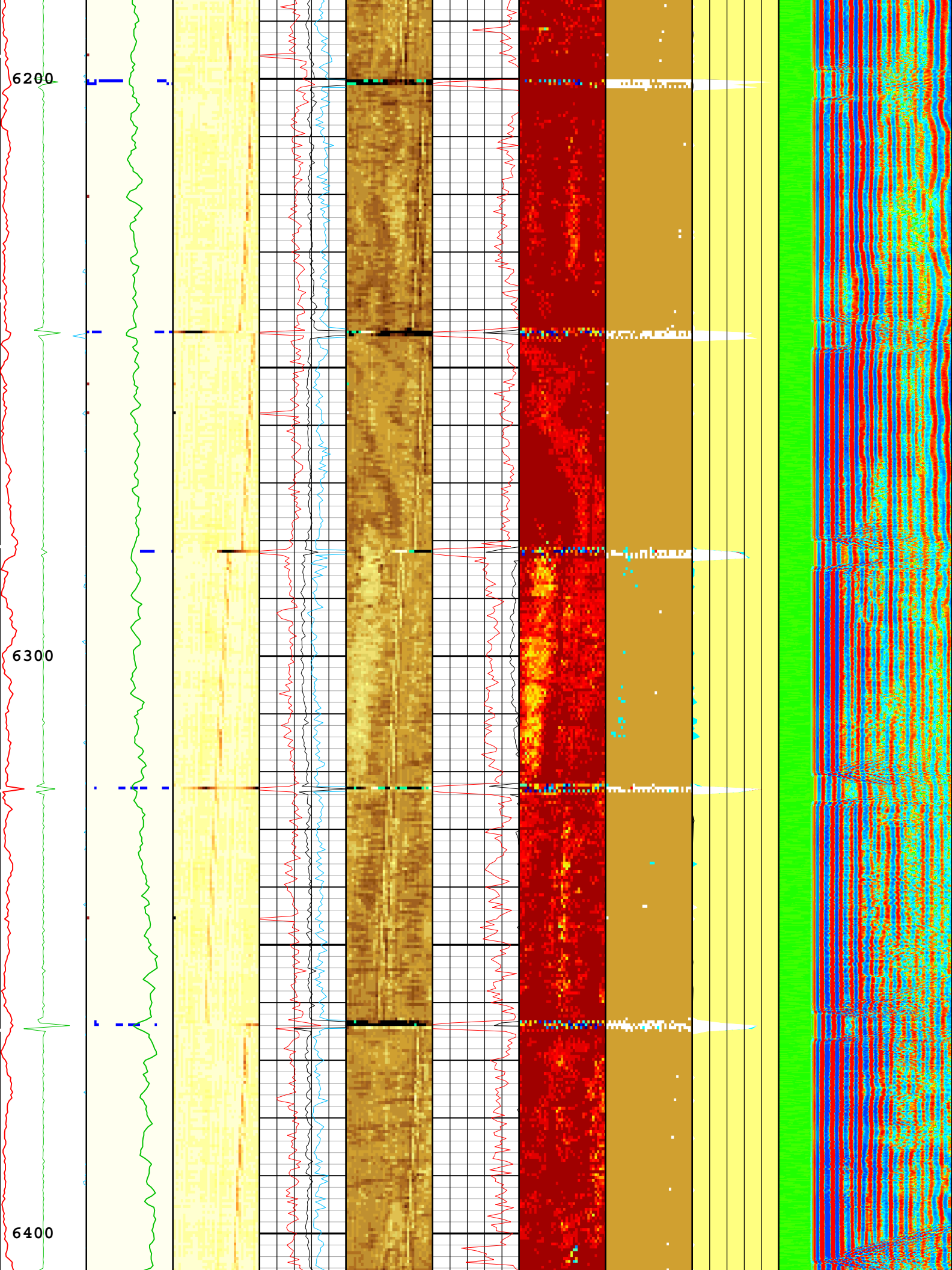


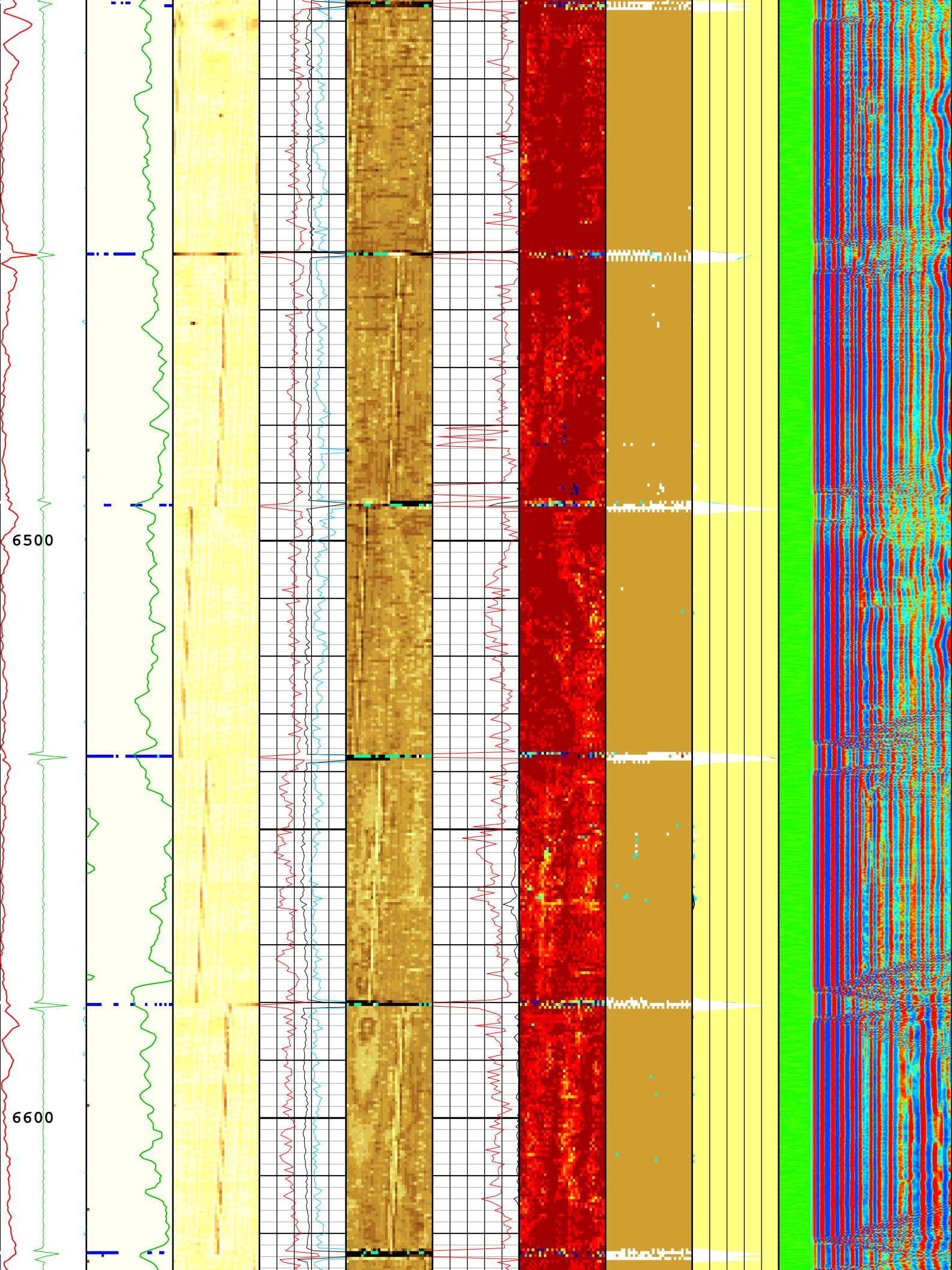


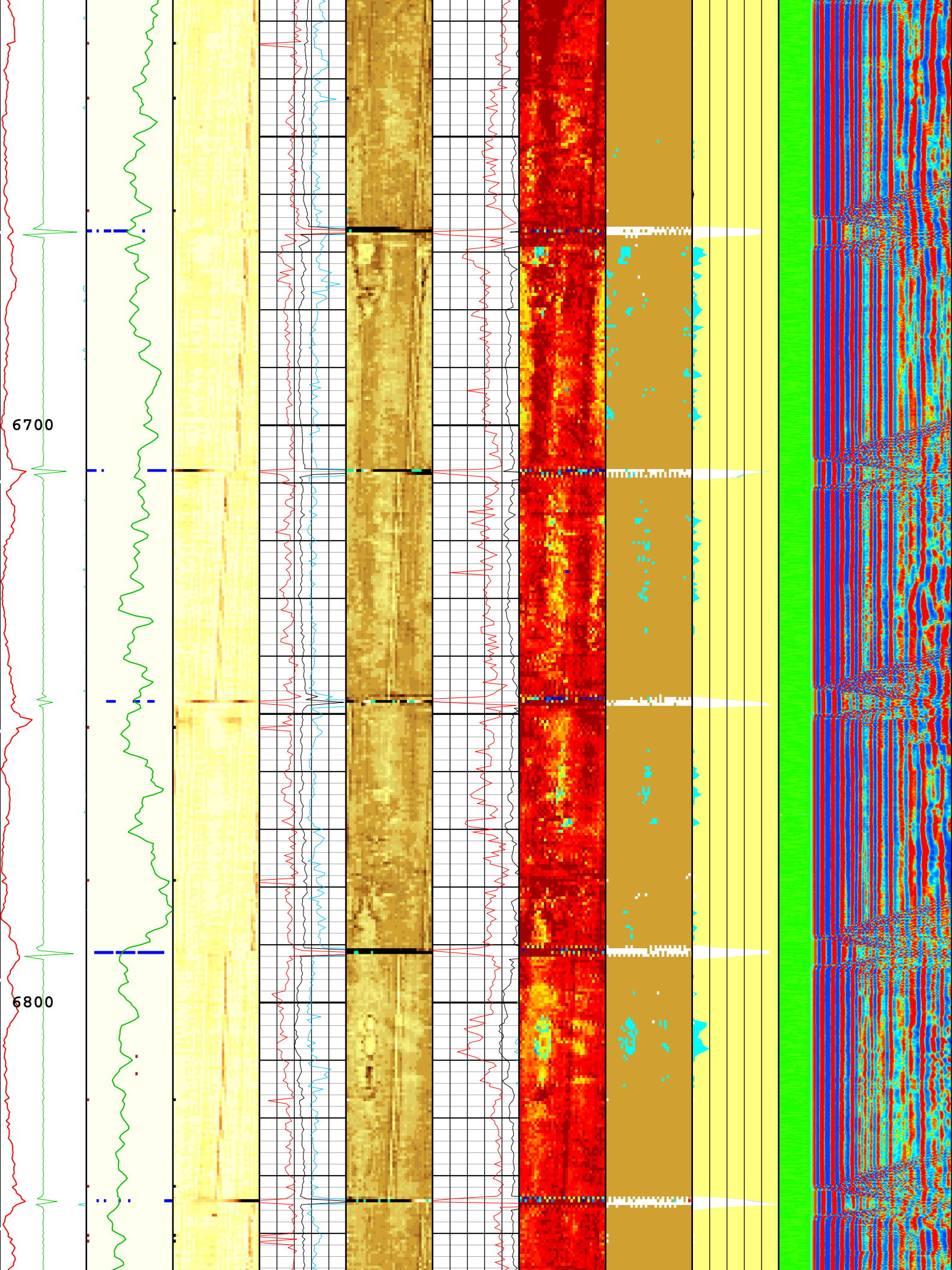


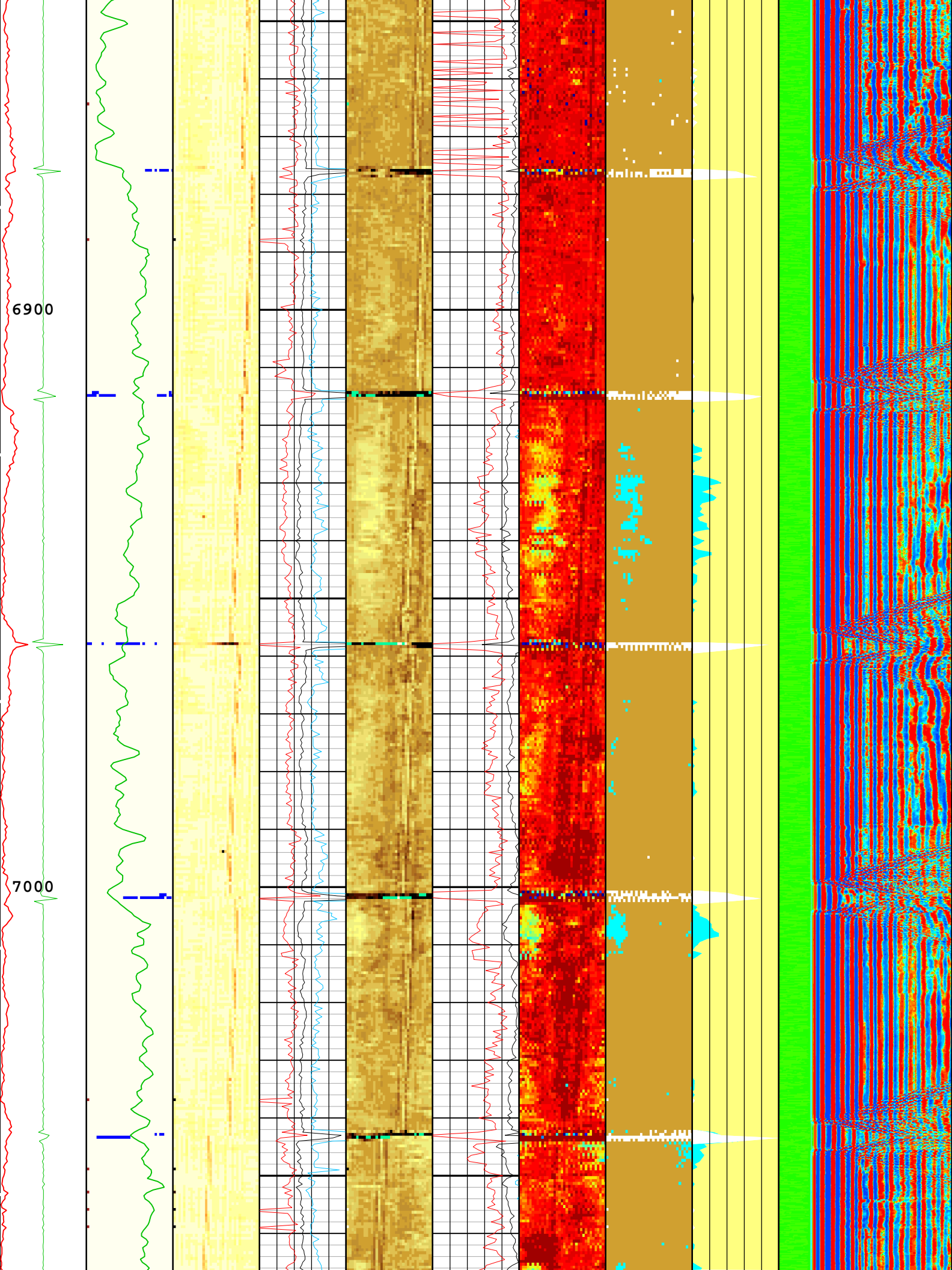


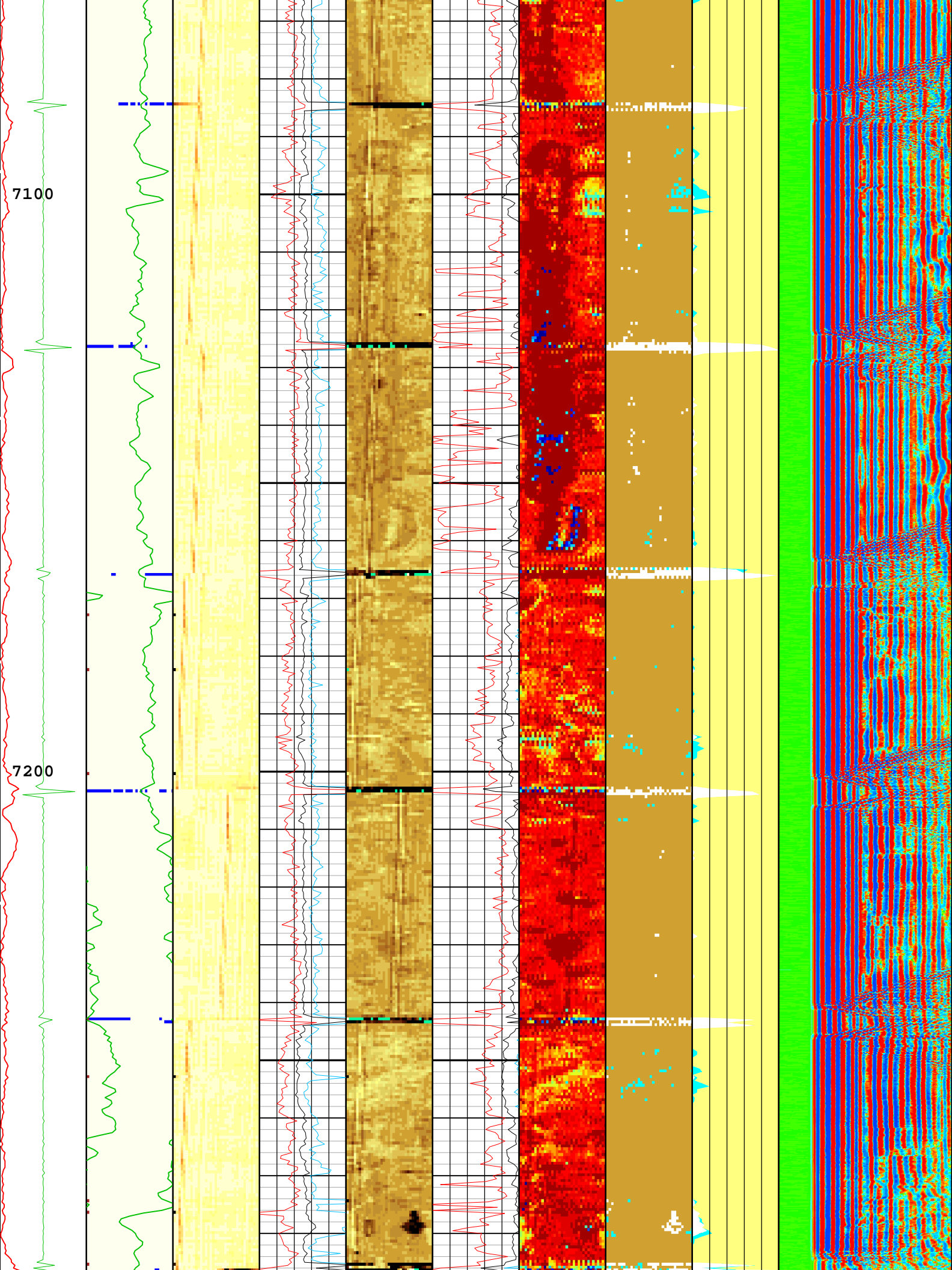


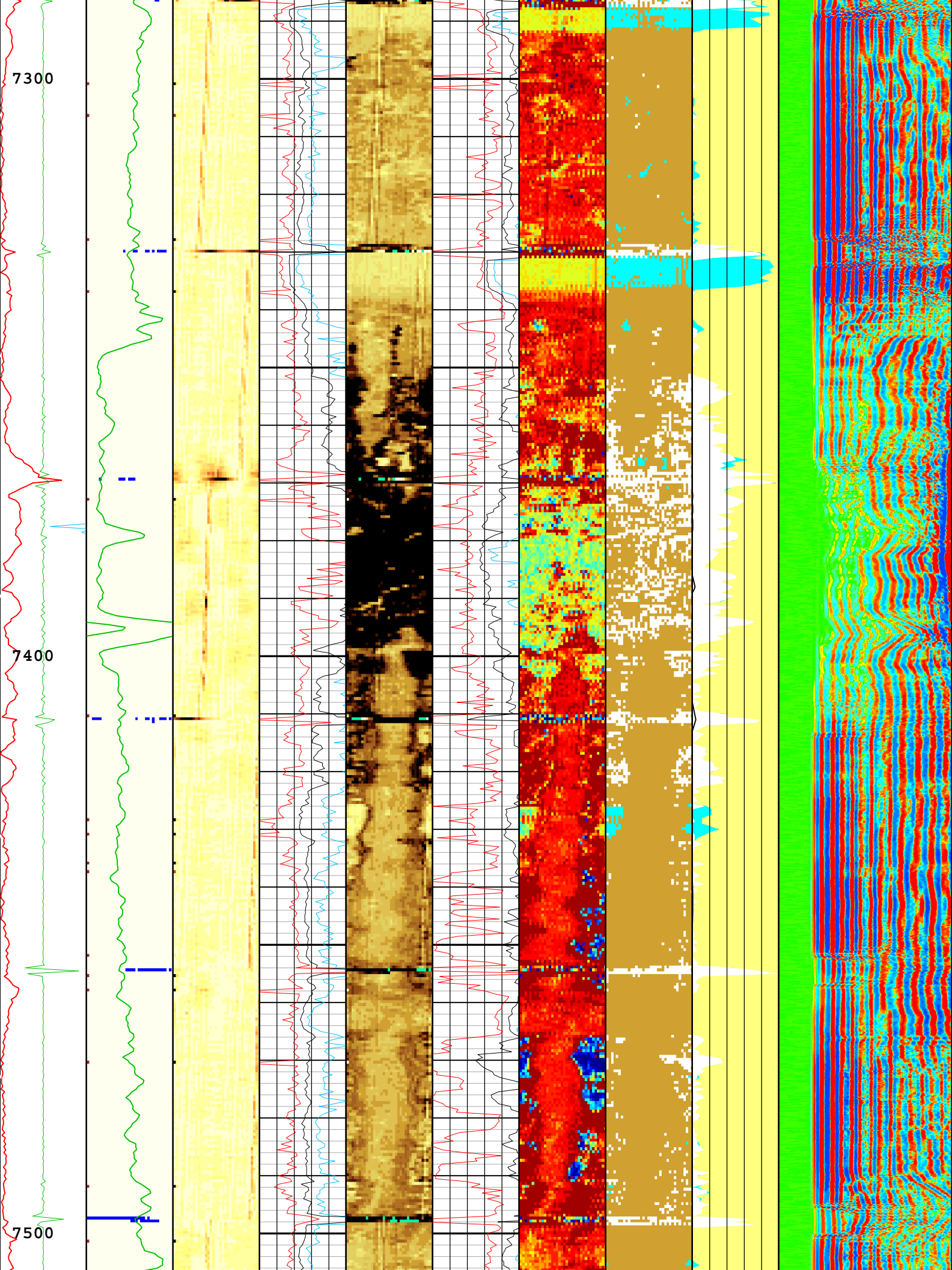


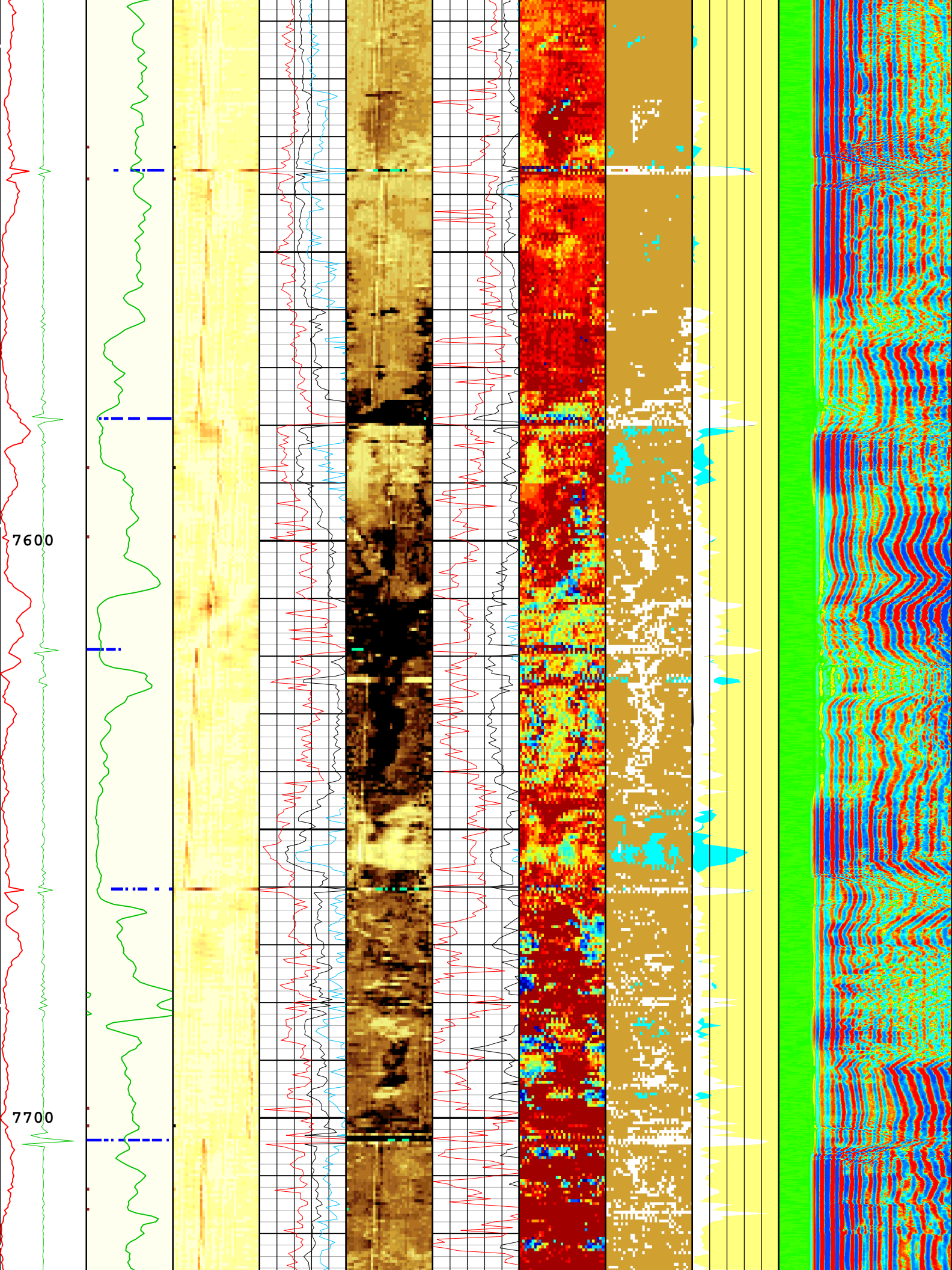


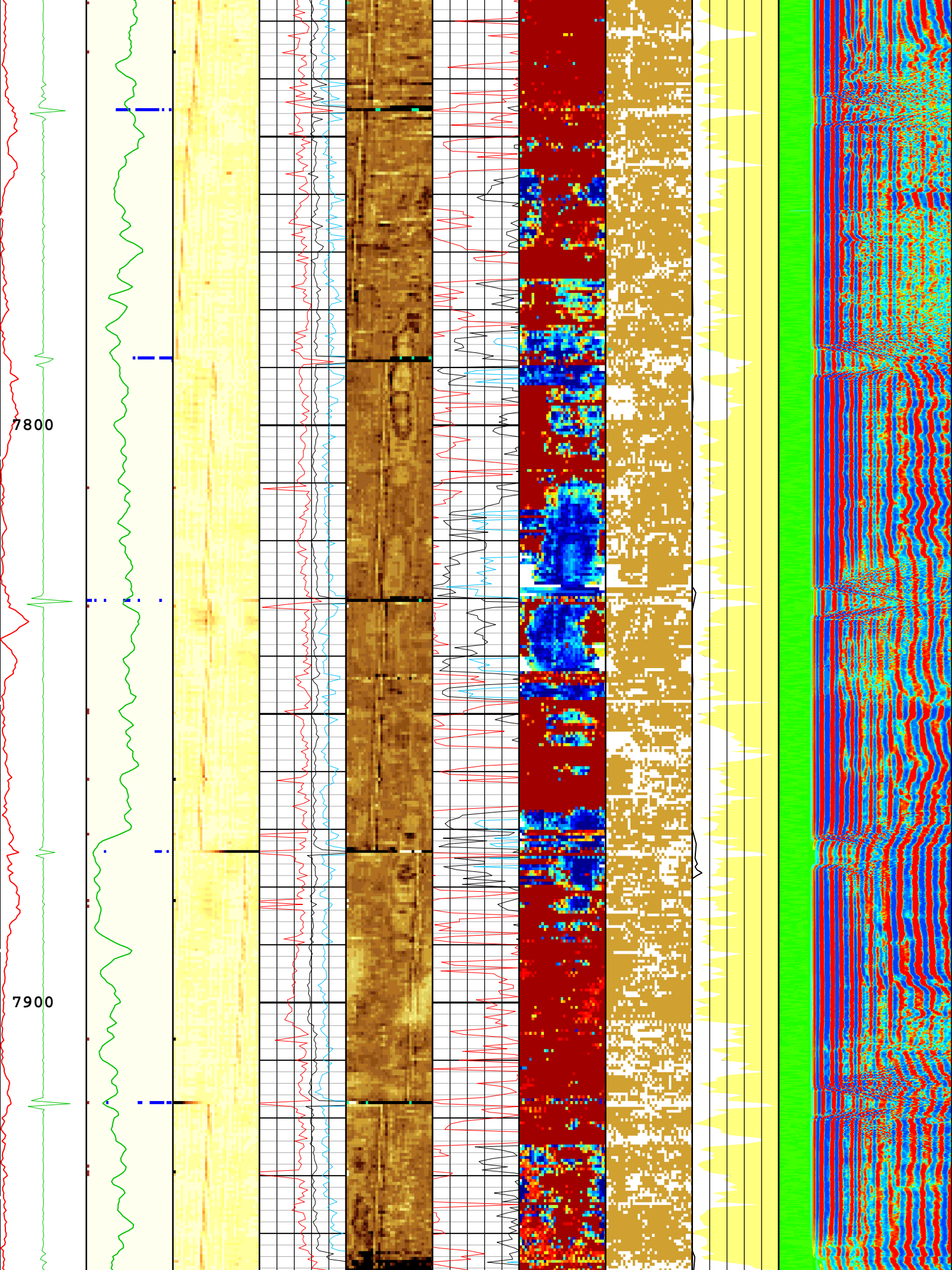


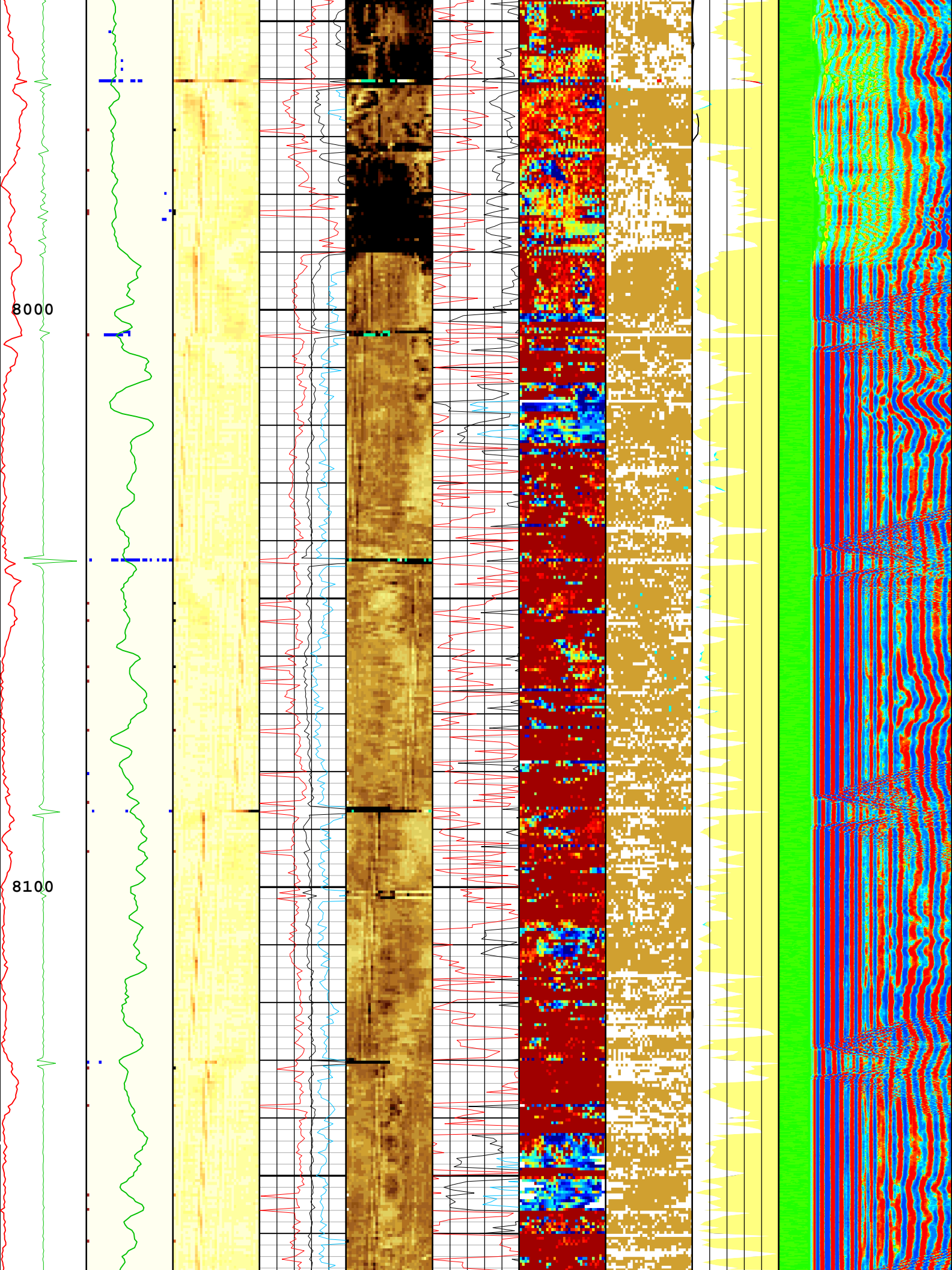


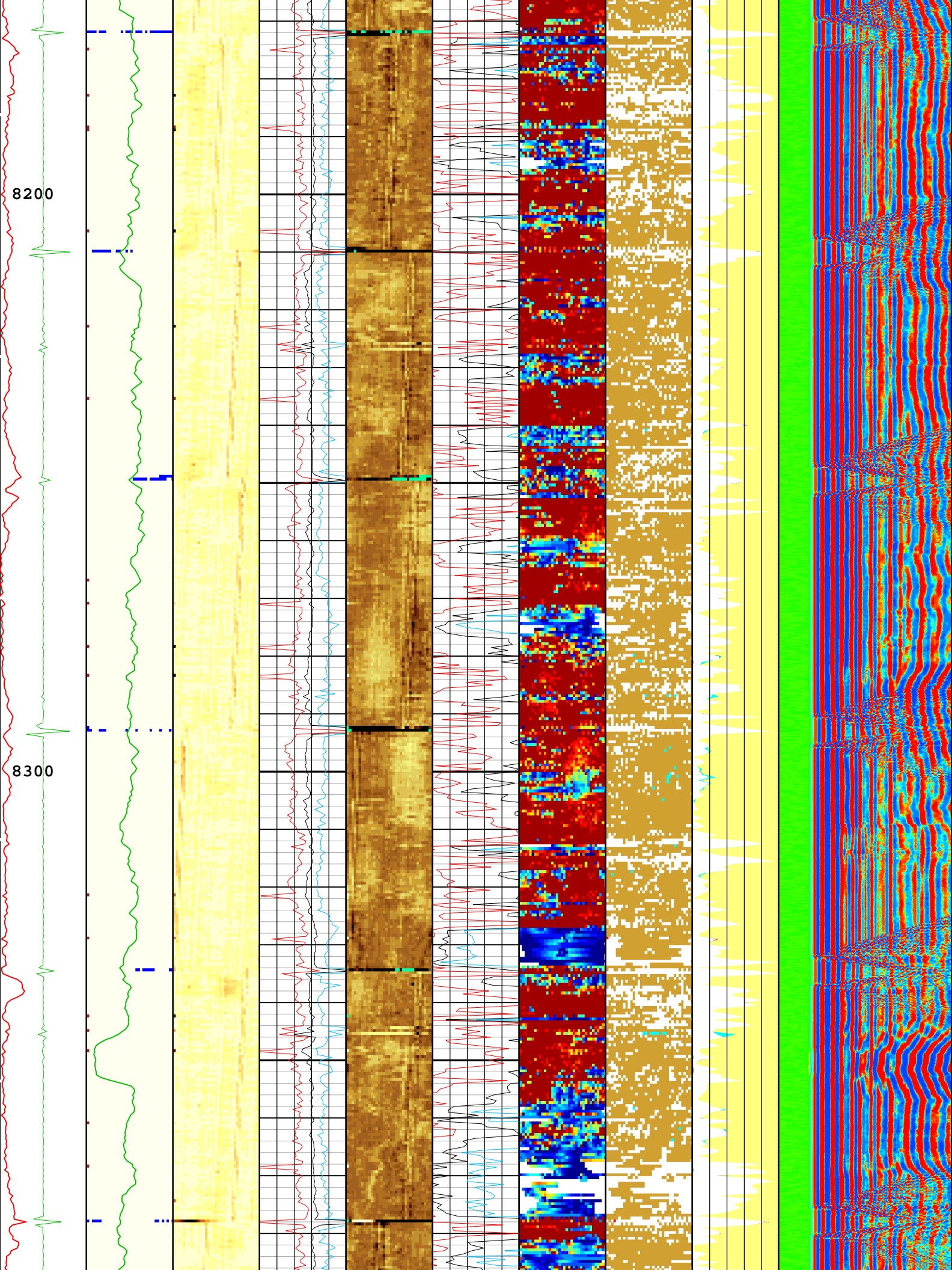


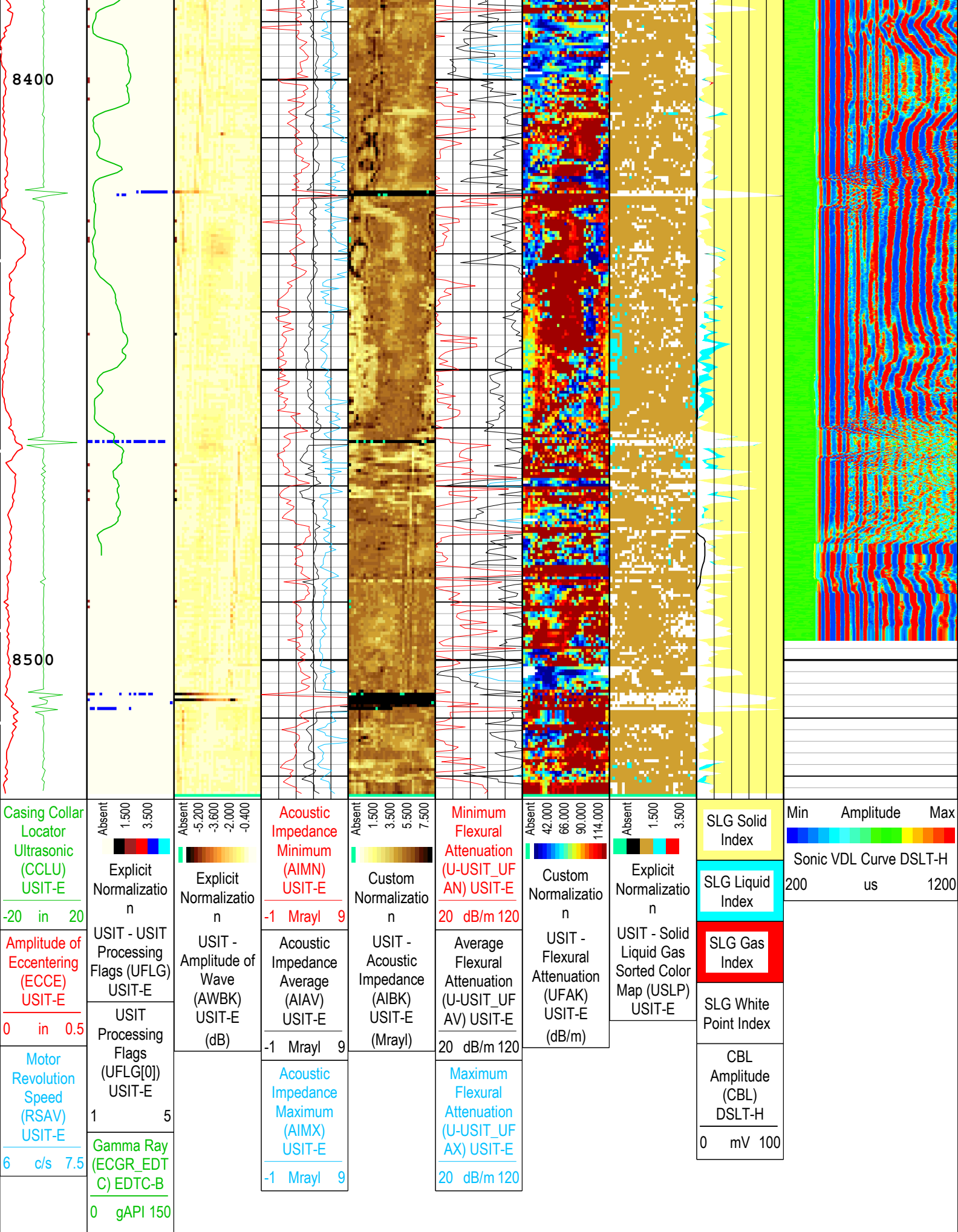
















USIT Processing Flags (UFLG[0]) USIT-E

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 VDLCLB) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 24-Feb-2017 08:56:07

Channel Processing Parameters				
TWO: Parameters				
Parameter	Description	Tool	Value	Unit
AMSG	Auxiliary Minimum Sliding Gate	DSLTH	140	us
ISSBAR	Barite Mud Presence Flag	Borehole	No	
BERJ	Bad Echo Rejection	USIT-E	On	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BILI	Bond Index Level for Zone Isolation	DSLTH	0.8	
BS	Bit Size	WLSESSION	Depth Zoned	in
CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson Ratio	
CBLG	CBL Gate Width	DSLTH	Time Zoned	us
CBLO	Casing Bottom (Logger)	WLSESSION	8552	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	DSLTH	62	mV
CDEN	Cement Density	USIT-E	13.2	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMCF	CBL Cement Type Compensation Factor	DSLTH	1	
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
DETE	Delta-T Detection	DSLTH	E1	
DFD	Drilling Fluid Density	Borehole	9.1	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	190	us/ft
FCF	CBL Fluid Compensation Factor	DSLTH	0.86	
FD	Fluid Density	USIT-E	10	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	8.23	dB/m
FSOD	USIT IBC Fluid Slowness Fits Casing Outer Diameter	USIT-E	0_OFF	
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	IBC_FRP_OFFSET	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	FreePipe Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	Off	
MAHTR	Manual High Threshold Reference for first arrival detection	DSLTH	120	
MCI	Minimum Cemented Interval for Isolation	DSLTH	Depth Zoned	ft
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.5	us
MNHTR	Minimum High Threshold Reference for first arrival detection	DSLTH	1	
MSA	Minimum Sonic Amplitude	DSLTH	1.35	mV
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.27	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.2	

MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
NMSG	Near Minimum Sliding Gate	DSLT-H	Time Zoned	us
NMXG	Near Maximum Sliding Gate	DSLT-H	940	us
NUMP	Number of Detection Passes	DSLT-H	2	
U-USIT_OCDI	Outer Casing Diameter	USIT-E	0	in
U-USIT_OCSH	Outer Casing Shoe	USIT-E	0	ft
U-USIT_OCWE	Outer Casing Weight	USIT-E	0	lbm/ft
RCOD	Reference Calibrator Outer Diameter	USIT-E	7	in
RCSO	Reference Calibrator Standoff	USIT-E	1.181	in
RCTH	Reference Calibrator Thickness	USIT-E	0.295	in
SFAF	Sonic Formation Attenuation Factor	DSLT-H	10.66	dB/m
SGAD	Sliding Gate Status	DSLT-H	Off	
SGCL	Sliding Gate Closing Delta-T	DSLT-H	130	us/ft
SGCW	Sliding Gate Closing Width	DSLT-H	25	us
SGDT	Sliding Gate Delta-T	DSLT-H	Time Zoned	us/ft
SGW	Sliding Gate Width	DSLT-H	110	us
SLEV	Signal Level for AGC	DSLT-H	5000	mV
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
TCUB	T*3 Processing Level	USIT-E	Loop	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.75	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-18.58	dB/m
UFGDE	Fiberglass Density	USIT-E	16.27	lbm/gal
UFGPS	Fiberglass Processing Selection	USIT-E	No	
UFGVL	Fiberglass Velocity	USIT-E	9678.48	ft/s
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SLG - TIE Picking	
THDP	Thickness Detection Policy	USIT-E	Fundamental	
VCAS	Ultrasonic Transversal Velocity in Casing	USIT-E	51.4	us/ft
VDLG	VDL Manual Gain	DSLT-H	5	
ZCAS	Acoustic Impedance of Casing	USIT-E	46.25	Mrayl
ZCMT	Acoustic Impedance of Cement	DSLT-H	6.8	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	2.4	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	350	1009
BS	8.75	1009	8524
MCI	14.81	350	1009
MCI	10	1009	8524

All depth are actual.

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
CBLG	100	22-Feb-2017 09:48:51	22-Feb-2017 12:06:55	8524.65	2700.96
CBLG	83	22-Feb-2017 12:06:55	22-Feb-2017 12:08:15	2700.96	2646.21

CBLG	100	22-Feb-2017 12:08:15	22-Feb-2017 13:03:27	2646.21	345.71
NMSG	208	22-Feb-2017 09:48:51	22-Feb-2017 10:11:55	8524.65	7642.31
NMSG	201	22-Feb-2017 10:11:55	22-Feb-2017 10:24:40	7642.31	7109.93
NMSG	205	22-Feb-2017 10:24:40	22-Feb-2017 12:03:54	7109.93	2831
NMSG	212	22-Feb-2017 12:03:54	22-Feb-2017 13:03:27	2831	345.71
SGDT	68	22-Feb-2017 09:48:51	22-Feb-2017 12:04:04	8524.65	2824.21
SGDT	74	22-Feb-2017 12:04:04	22-Feb-2017 13:03:27	2824.21	345.71

All depth are at tool zero.

Tool Control Parameters

TWO: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
DDEL	Digitizing Delay	DSLT-H	0	us
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOT(DOS)	Distance between Opposite Transducer Faces	USIT-E	2.874	in
MODE	DSLT Acquisition Mode	DSLT-H	CBL	
RATE	DSLT Firing Rate	DSLT-H	15 Hz	
DTFS	DSLT Telemetry Frame Size	DSLT-H	536	
DWCO	Digitizer Word Count	DSLT-H	250	
EMXV	EMEX Voltage	USIT-E	45	V
HRES	Horizontal Resolution	USIT-E	10 deg	
MOTOR_PROTECT	Motor Protection	USIT-E	On	
SDTH	Switch Down Threshold	DSLT-H	20000	
SGAI	Selectable Acquisition Gain	DSLT-H	x1	
SUTH	Switch Up Threshold	DSLT-H	1000	
TMUC	Type of Mud	USIT-E	BRI	
UACLV_PERM	Ultrasonic ACLV Permanent	USIT-E	No	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	130	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	99	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	Time Zoned	us
USFR	Ultrasonic Sampling Frequency	USIT-E	500000	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	8525	ft
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	35.04	us
WINE	Window End Time	USIT-E	75.04	us
WMOD	Waveform Firing Mode	DSLT-H	Full	

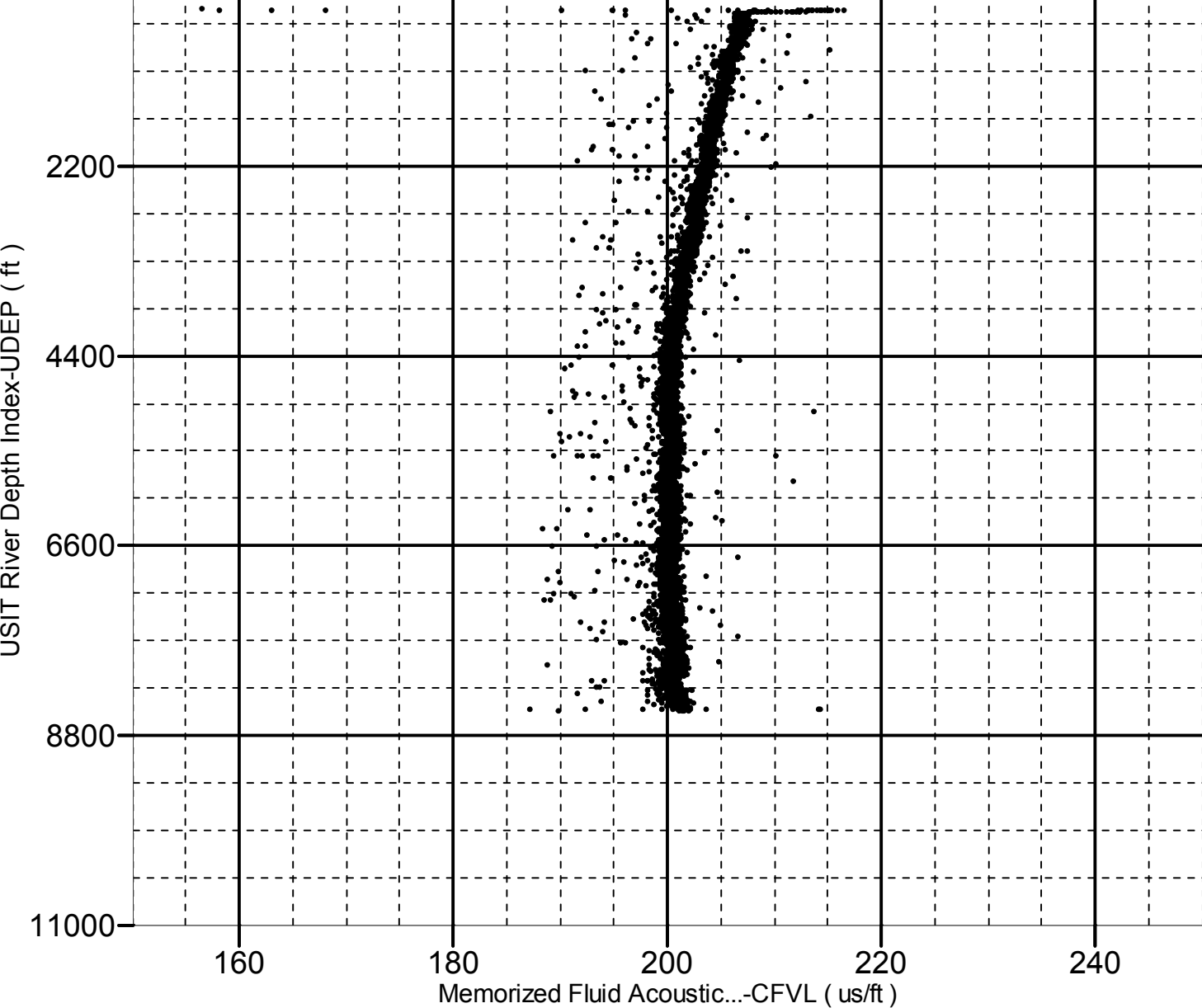
Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
U-USIT_UFWE	170	22-Feb-2017 09:48:51	22-Feb-2017 09:49:21	8524.65	8520.98

U-USIT_UFWE	167.97	22-Feb-2017 09:49:21	22-Feb-2017 09:49:22	8520.98	8520.62
U-USIT_UFWE	165.59	22-Feb-2017 09:49:22	22-Feb-2017 09:50:51	8520.62	8497.67
U-USIT_UFWE	168.37	22-Feb-2017 09:50:51	22-Feb-2017 10:04:53	8497.67	7938.52
U-USIT_UFWE	173.13	22-Feb-2017 10:04:53	22-Feb-2017 10:14:43	7938.52	7525.54
U-USIT_UFWE	168.37	22-Feb-2017 10:14:43	22-Feb-2017 10:14:46	7525.54	7523.98
U-USIT_UFWE	166.38	22-Feb-2017 10:14:46	22-Feb-2017 10:14:52	7523.98	7519.51
U-USIT_UFWE	165.19	22-Feb-2017 10:14:52	22-Feb-2017 10:19:25	7519.51	7329.98
U-USIT_UFWE	162.18	22-Feb-2017 10:19:25	22-Feb-2017 10:23:27	7329.98	7161.93
U-USIT_UFWE	161.53	22-Feb-2017 10:23:27	22-Feb-2017 10:26:45	7161.93	7020.88
U-USIT_UFWE	159.27	22-Feb-2017 10:26:45	22-Feb-2017 11:13:20	7020.88	5028.98
U-USIT_UFWE	165.29	22-Feb-2017 11:13:20	22-Feb-2017 11:13:24	5028.98	5026.23
U-USIT_UFWE	169.06	22-Feb-2017 11:13:24	22-Feb-2017 12:03:01	5026.23	2869.55
U-USIT_UFWE	165.99	22-Feb-2017 12:03:01	22-Feb-2017 12:32:35	2869.55	1648.29
U-USIT_UFWE	172.92	22-Feb-2017 12:32:35	22-Feb-2017 12:36:43	1648.29	1476.54
U-USIT_UFWE	168.72	22-Feb-2017 12:36:43	22-Feb-2017 12:36:46	1476.54	1474.1
U-USIT_UFWE	165.57	22-Feb-2017 12:36:46	22-Feb-2017 12:38:36	1474.1	1397.46
U-USIT_UFWE	152.69	22-Feb-2017 12:38:36	22-Feb-2017 12:38:39	1397.46	1395.76
U-USIT_UFWE	154.1	22-Feb-2017 12:38:39	22-Feb-2017 12:38:42	1395.76	1393.15
U-USIT_UFWE	158.33	22-Feb-2017 12:38:42	22-Feb-2017 13:03:27	1393.15	345.71
U-USIT_UNWE	139	22-Feb-2017 09:48:51	22-Feb-2017 09:49:16	8524.65	8522.17
U-USIT_UNWE	134.27	22-Feb-2017 09:49:16	22-Feb-2017 09:49:18	8522.17	8521.64
U-USIT_UNWE	133.48	22-Feb-2017 09:49:18	22-Feb-2017 09:59:23	8521.64	8169.99
U-USIT_UNWE	139.34	22-Feb-2017 09:59:23	22-Feb-2017 10:04:57	8169.99	7935.49
U-USIT_UNWE	141.42	22-Feb-2017 10:04:57	22-Feb-2017 10:09:59	7935.49	7722.39
U-USIT_UNWE	136.16	22-Feb-2017 10:09:59	22-Feb-2017 10:10:03	7722.39	7720.15
U-USIT_UNWE	135.46	22-Feb-2017 10:10:03	22-Feb-2017 10:15:01	7720.15	7513.1
U-USIT_UNWE	133.48	22-Feb-2017 10:15:01	22-Feb-2017 10:16:42	7513.1	7443.39
U-USIT_UNWE	136.87	22-Feb-2017 10:16:42	22-Feb-2017 10:16:43	7443.39	7442.4
U-USIT_UNWE	137.57	22-Feb-2017 10:16:43	22-Feb-2017 10:17:22	7442.4	7415.64
U-USIT_UNWE	133.35	22-Feb-2017 10:17:22	22-Feb-2017 10:23:19	7415.64	7167.08
U-USIT_UNWE	128.42	22-Feb-2017 10:23:19	22-Feb-2017 12:03:15	7167.08	2859.58
U-USIT_UNWE	125.55	22-Feb-2017 12:03:15	22-Feb-2017 12:03:25	2859.58	2852.23
U-USIT_UNWE	129.91	22-Feb-2017 12:03:25	22-Feb-2017 12:32:31	2852.23	1651.09
U-USIT_UNWE	135.11	22-Feb-2017 12:32:31	22-Feb-2017 12:36:49	1651.09	1472.08
U-USIT_UNWE	127.76	22-Feb-2017 12:36:49	22-Feb-2017 13:03:27	1472.08	345.71

Fluid Acoustic Slowness vs Depth

- CFVL-UDEP

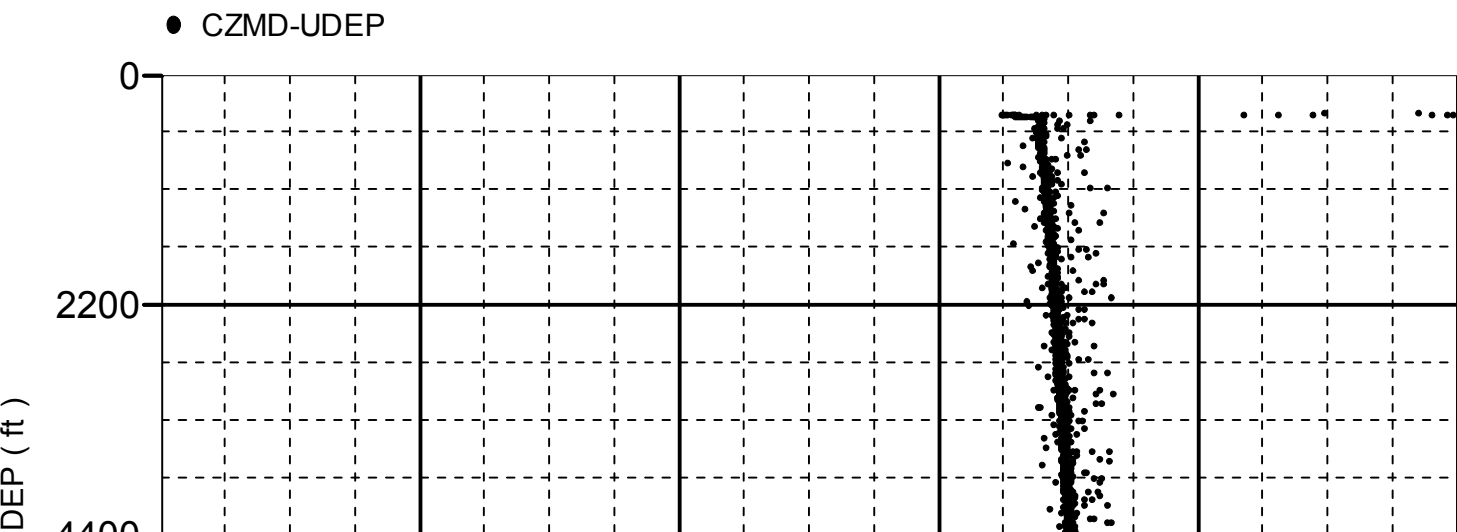


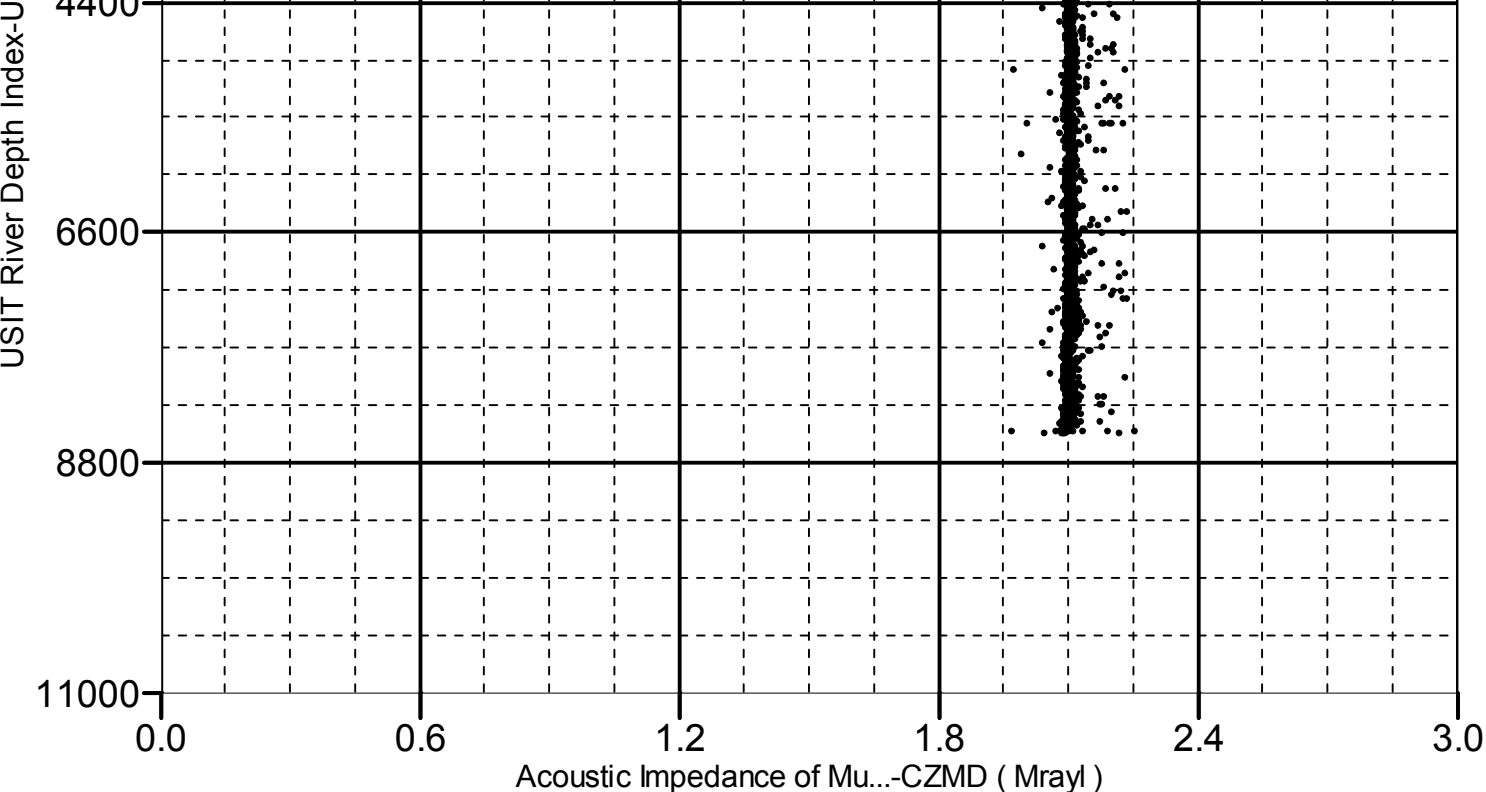
XYZ Company:Expedition Water Solutions LLC Well:EWS 4
TWO: Log[5]:Up:S015

Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 8524.00 to 345.00 ft





Company: Expedition Water Solutions LLC

Schlumberger

Well: EWS 4

Field: Wattenburg

County: Weld

State: Colorado

Isolation Scanner - CBL VDL

Cement Evaluation

Gamma Ray - CCL Log