

Company: Anadarko Petroleum Company

Well: Spurling 14N-34HZ

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner
Cement Evaluation
Gamma Ray - CCL LogCounty: Weld
Field: Wattenberg
Location: NWNW Sec 34, T2N, R67W
Well: Spurling 14N-34HZ
Company: Anadarko Petroleum Company

Location:		Elev.:	
NWNW Sec 34, T2N, R67W		K.B. 5035.00 ft	
SHL: 377' FNL & 1148' FWL		G.L. 5014.00 ft	
Lat/Long: 40.100998-104.882316		D.F. 5034.00 ft	
Permanent Datum:	Ground Level	Elev.:	5014.00 f
Log Measured From:	Kelly Bushing	21.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Section:	Township:	Range:
05-123-39127-0000	34		67W

Logging Date	18-Jun-2014
Run Number	Run 1
Depth Driller	7852.00 ft
Schlumberger Depth	7852.00 ft
Bottom Log Interval	6850.00 ft
Top Log Interval	
Casing Fluid Type	Water
Salinity	
Density	8.4 lbm/gal
Fluid Level	8.00 ft
BIT/CASING/TUBING STRING	
Bit Size	8.75 in
From	1000.00 ft
To	7852.00 ft
Casing/Tubing Size	7 in
Weight	26 lbm/ft
Grade	N/A
From	0.00 ft
To	7852.00 ft
Max Recorded Temperatures	216.95 degF
Logger on Bottom	18-Jun-2014 14:13:00
Unit Number	3030
Recorded By	Keri Ondrus
Witnessed By	Trevor Davie

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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12. USI Goodwin

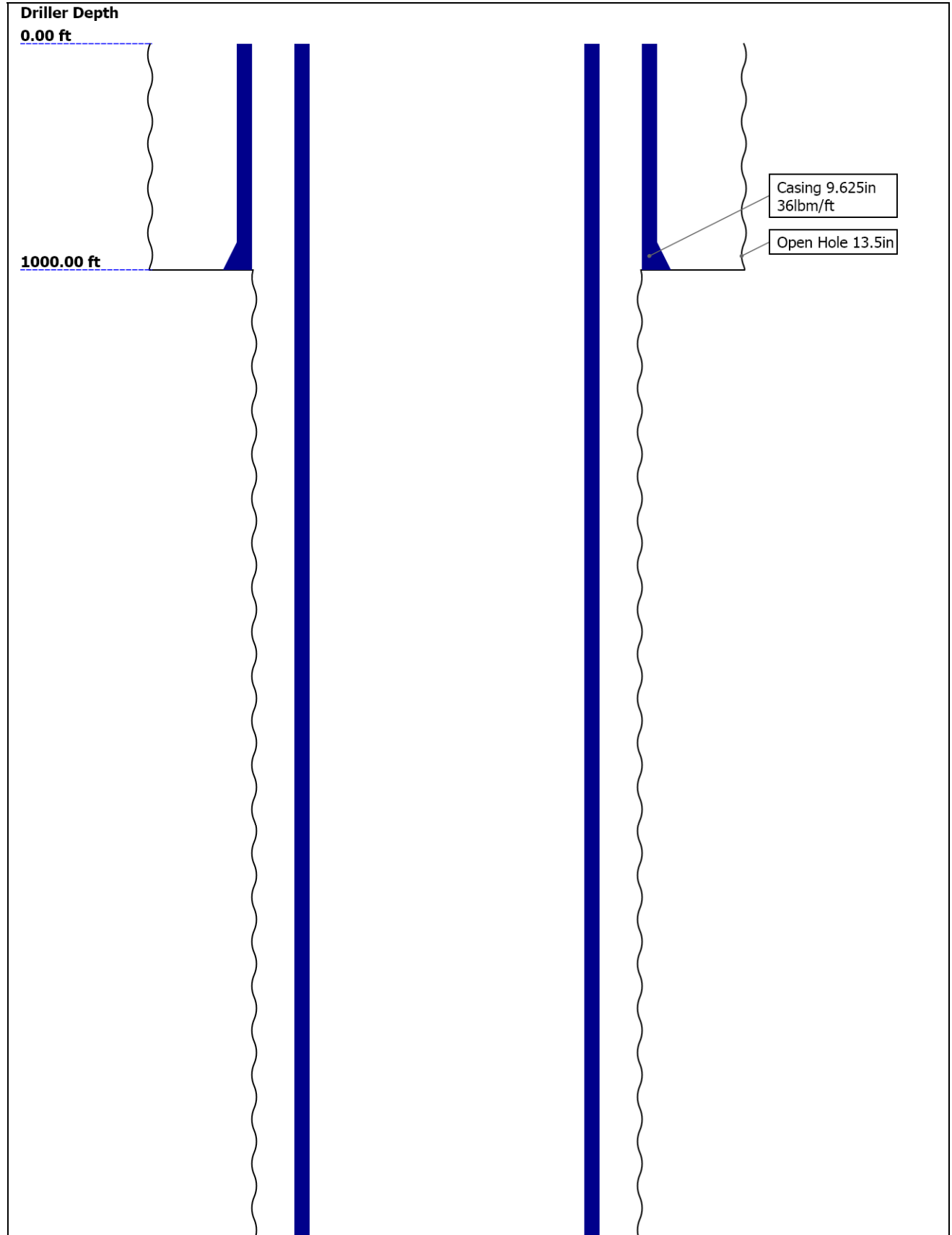
12.1 USI Fluid Properties Measurement

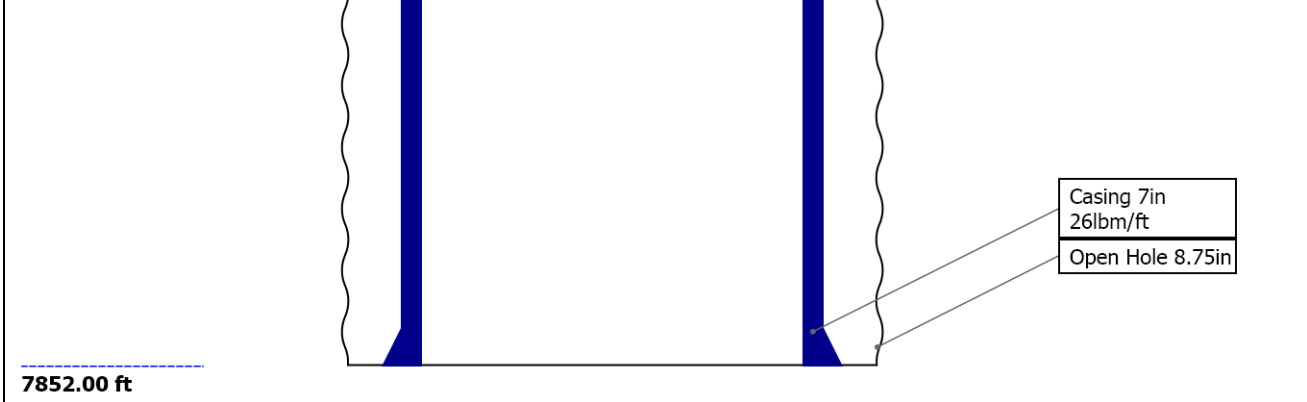
12.2 USI Goodwin

13. USI IBC SLG Composite

13.1 USI Fluid Properties Measurement

Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	13.5	8.75				
Top Driller (ft)	0	1000				
Top Logger (ft)	0	1000				
Bottom Driller (ft)	1000	7852				
Bottom Logger (ft)	1000	7852				
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)	1000	7852				
Bottom Logger (ft)	1000	7852				

Operational Run Summary

Parameter (unit)	Run 1					
Date Log Started	18-Jun-2014					
Time Log Started	07:10:40					
Date Log Finished	18-Jun-2014					
Time Log Finished	18:19:26					
Top Log Interval (ft)	NaN					
Bottom Log Interval (ft)	6850.00					
Total Depth (ft)	7000.00					
Max Hole Deviation (deg)	0.00					
Azimuth of Max Deviation (deg)	0.00					
Bit Size (in)	8.750					
Logging Unit Number	3030					
Logging Unit Location	Fort Morgan, CO					
Recorded By	Keri Ondrus					
Witnessed By	Trevor Davie					
Service Order Number	BX19-00145					

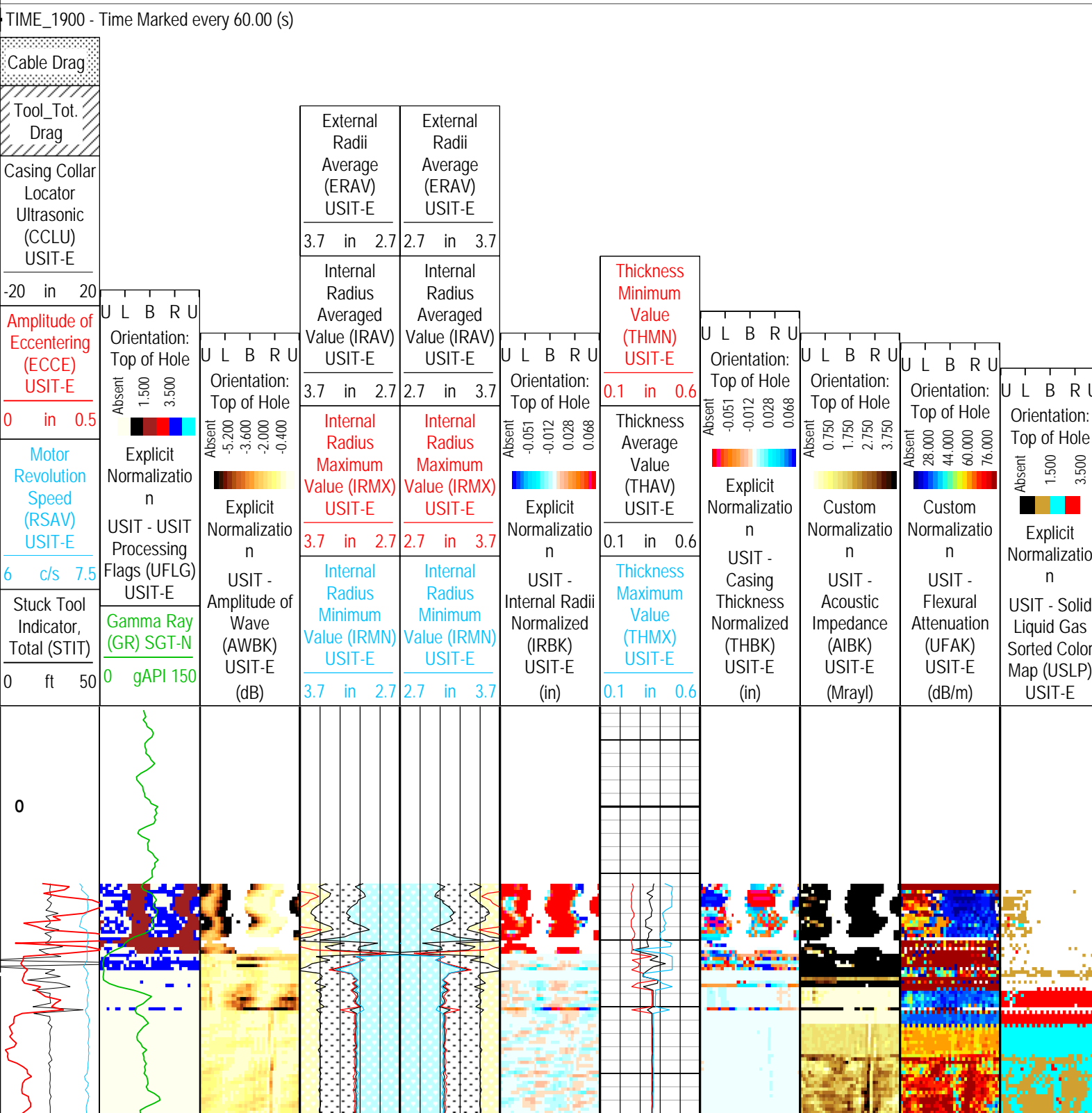
Borehole Fluids

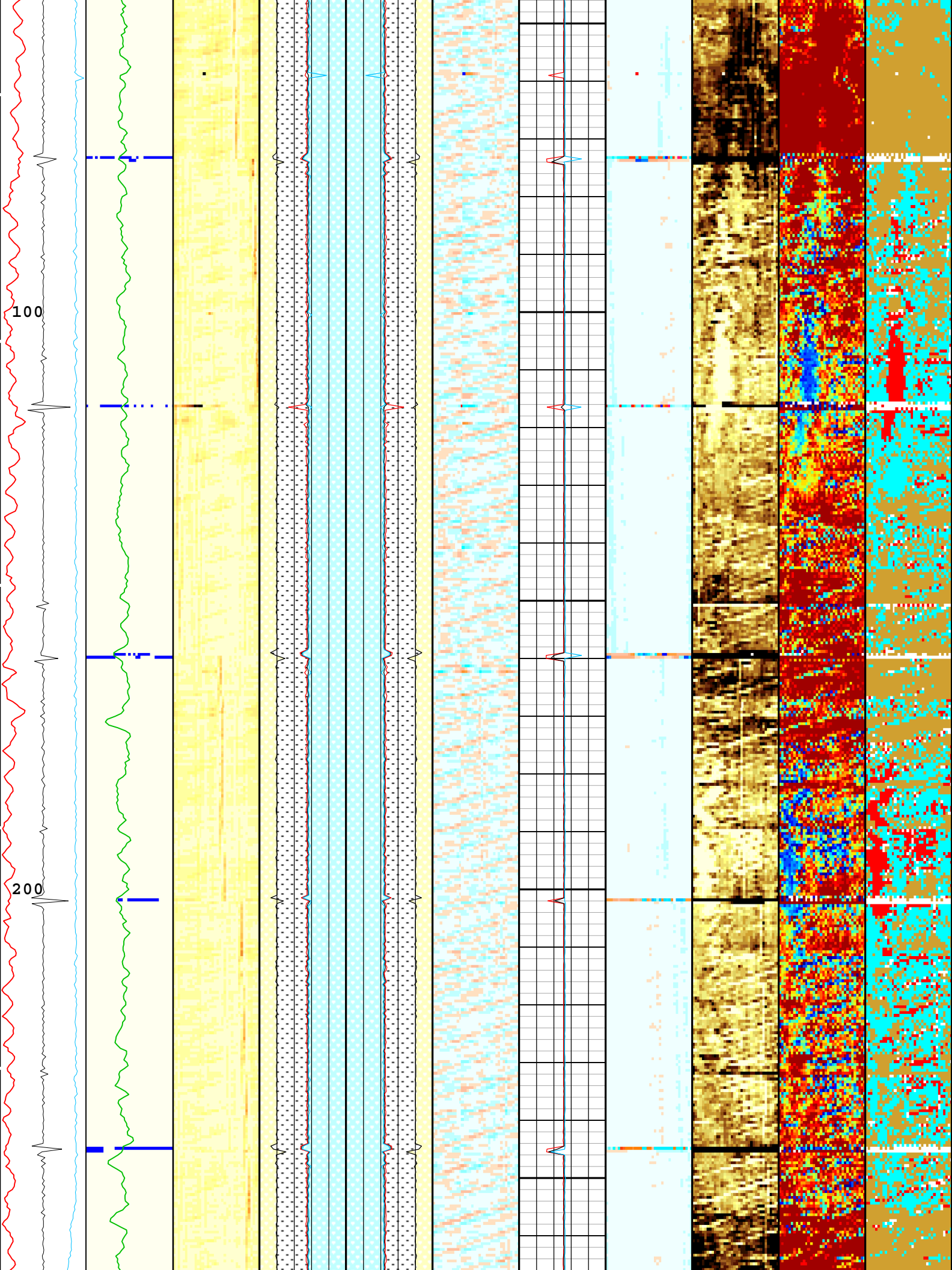
Parameter(unit)	Run 1					
Fluid Type	Water					
Max Recorded Temperatures (degF)	216.95					
Salinity (ppm)	0					
Density (lbm/gal)	8.4					
Date Logger on Bottom	18-Jun-2014					
Time Logger on Bottom	14:13:00					
Total Solid (%)						
High Gravity Solids (%)						

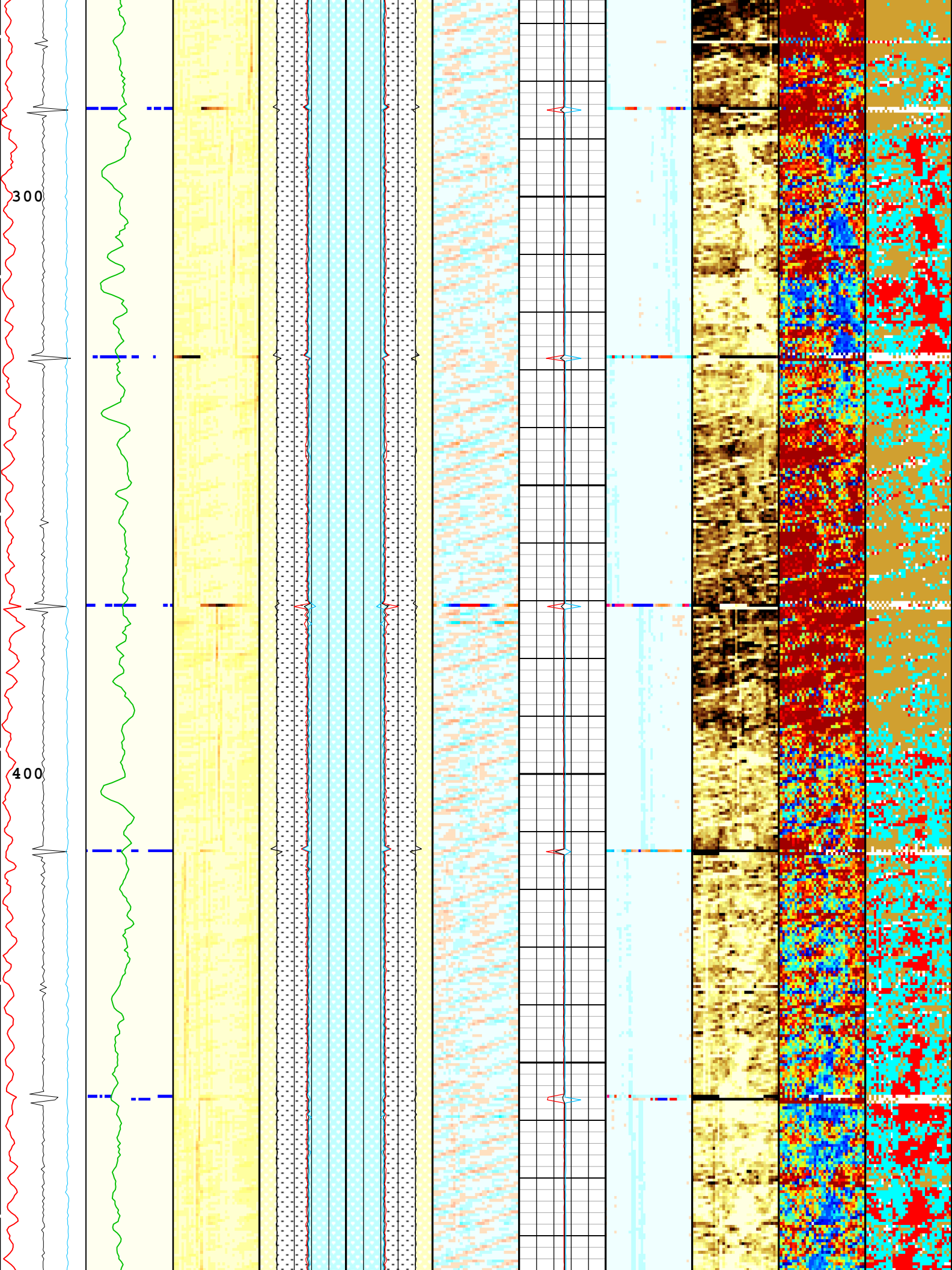
Remarks and Equipment Summary

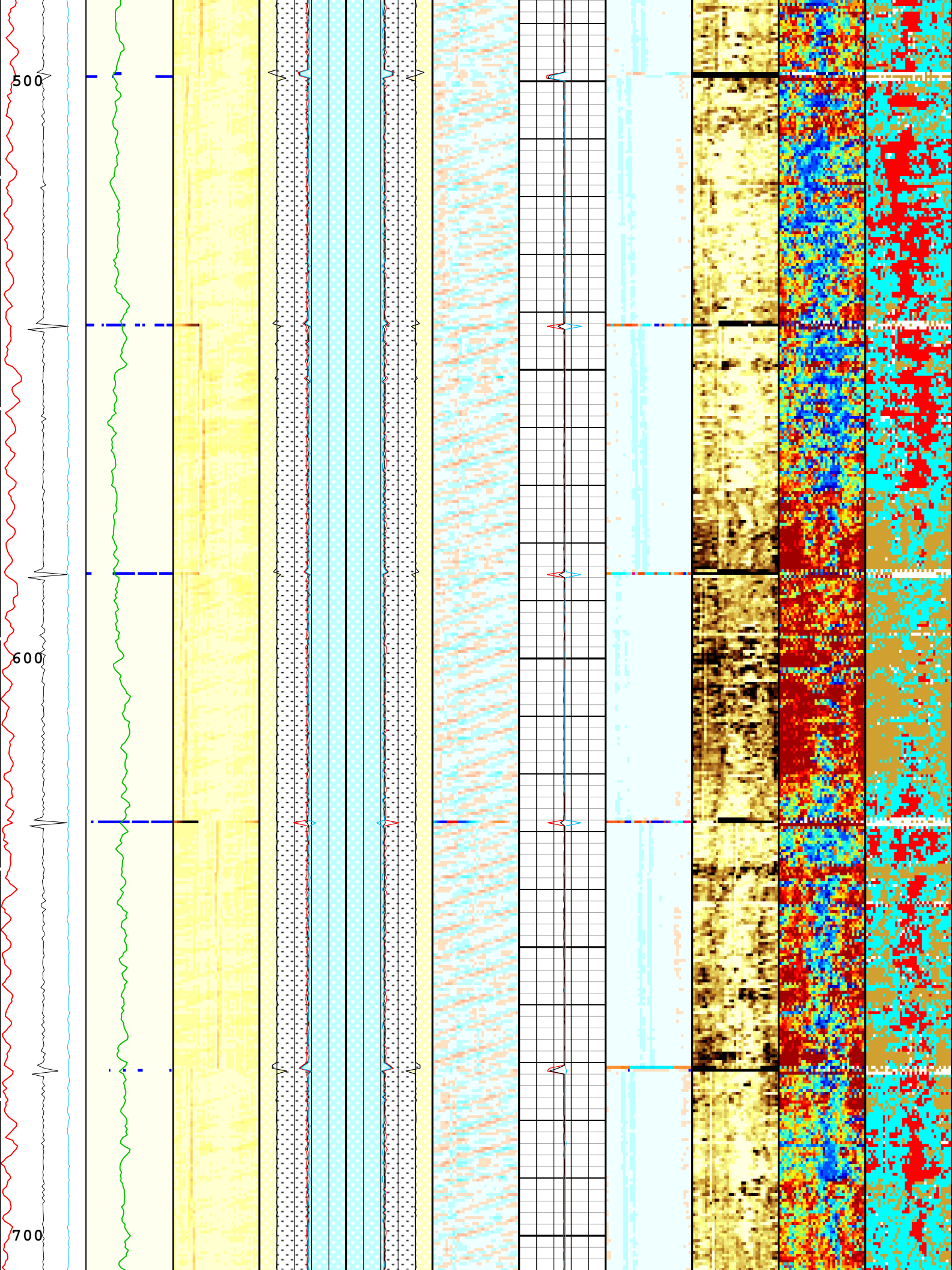
Run 1 : Toolstring	Run 1 : Remarks	
<div> <div> <div>Equip name Length</div> <div>LEH-QT:21 33.92</div> <div>10</div> <div>LEH-QT:2110</div> </div> <div> <div>DTC-H:938 31.00</div> <div>6</div> <div>ECH-KC:1047</div> <div>2</div> <div>DTC-H:9386</div> </div> <div> <div>SGT-N:103 28.00</div> <div>86</div> <div>SGH-K:3164</div> <div>SGD-TAA:218</div> <div>92</div> <div>SGC-TB:1038</div> <div>6</div> </div> <div> <div>CME-AF 22.5</div> </div> <div> <div>AH-184:27 18.71</div> <div>46</div> </div> <div> <div>USIT-E:977 16.71</div> <div>ECH-MFA:19</div> <div>69</div> <div>USAC-A:977</div> <div>USIS-A:2797</div> <div>USSC-B:1730</div> <div>IBCS-B:910</div> <div>FAR-SENSOR</div> <div>NEAR-SENSO</div> <div>R</div> <div>USI-SENSOR</div> <div>EMITTER-SE</div> <div>NSOR</div> </div> <div> <div>USI Sens 0.87</div> </div> </div> <div> <div>MP name Offset</div> <div>CTEM 30.1</div> <div>HV 0.00</div> <div>ToolStat 28.00</div> <div>us</div> <div>TelStatus 28.00</div> <div>GR 27.09</div> </div>	Toolstring run as per toolsketch.	
	4.5" liner top at 6867'. Bottom log interval at 6850' to maintain distance from liner top.	
	Log interval from 6850' to ground level run with 0 PSI and 3000 PSI.	
	Full lube used to reach ground level with logs.	
	Cemented by Halliburton.	
	13 PPG lead and 14.4 PPG tail cement. HAL welllife slurry with rubber compound.	
	Estimated top of cement at 715'.	
	Thank you for choosing Schlumberger Wireline!	
	SLB crew: Derrick Hunter, Jake Jump, Gary Lapp. and Keri Ondrus.	

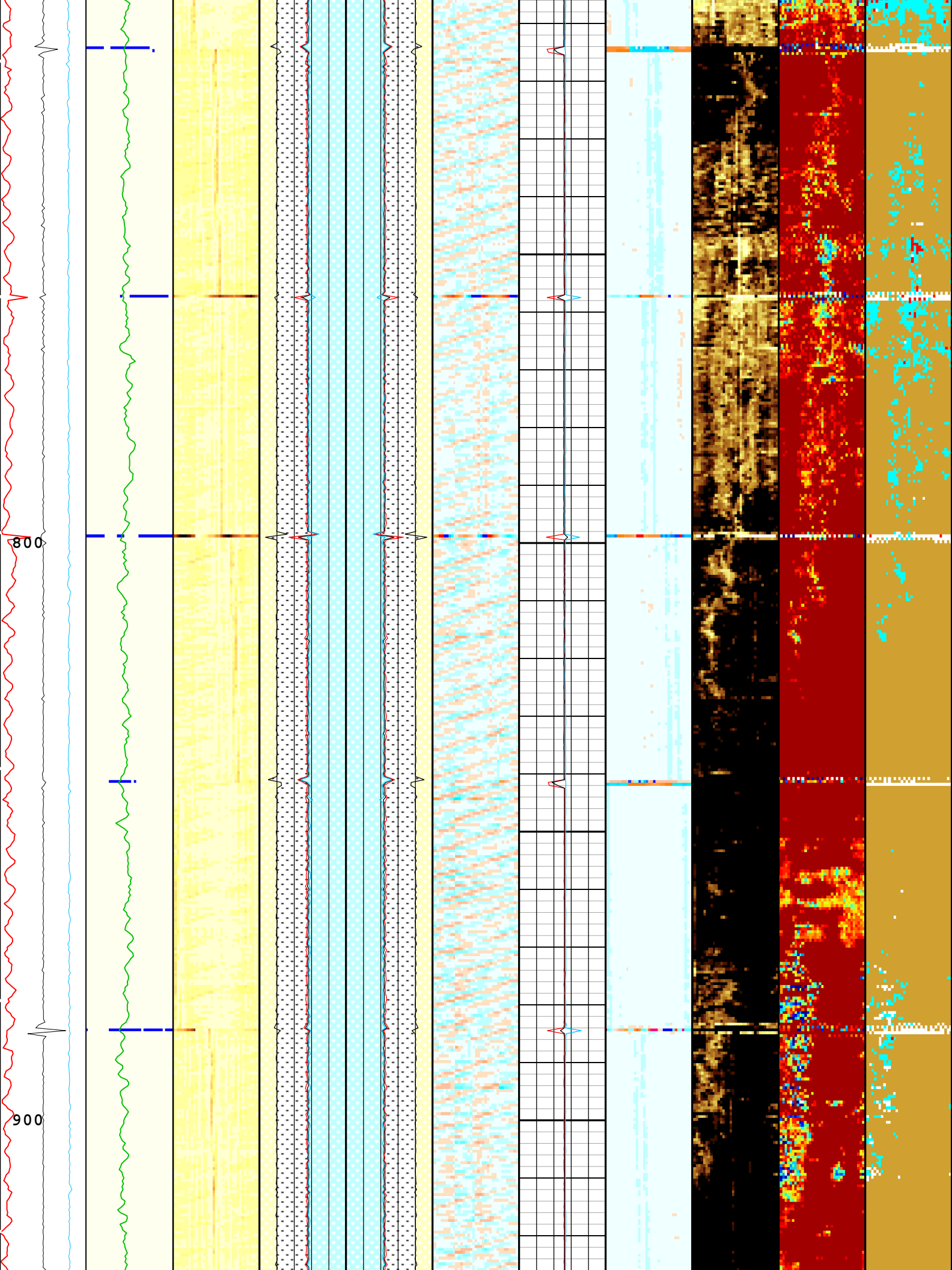
Acquisition System		Version	
MaxWell		4.0.9163.3000	
Application Patch		Patch-SP-10767_13393-4.0.9163.3001	
Computation	Description	Version	
DepthCorrection	DepthCorrection	4.0.9213.3000	
Tool Elements	Description	Software Version	Firmware Version
USI-SENSOR	USIT Transducer Element	4.0.9265.3000	DSP: v01.82
SGC-TB	Scintillation Gamma Cartridge	4.0.9033.3000	

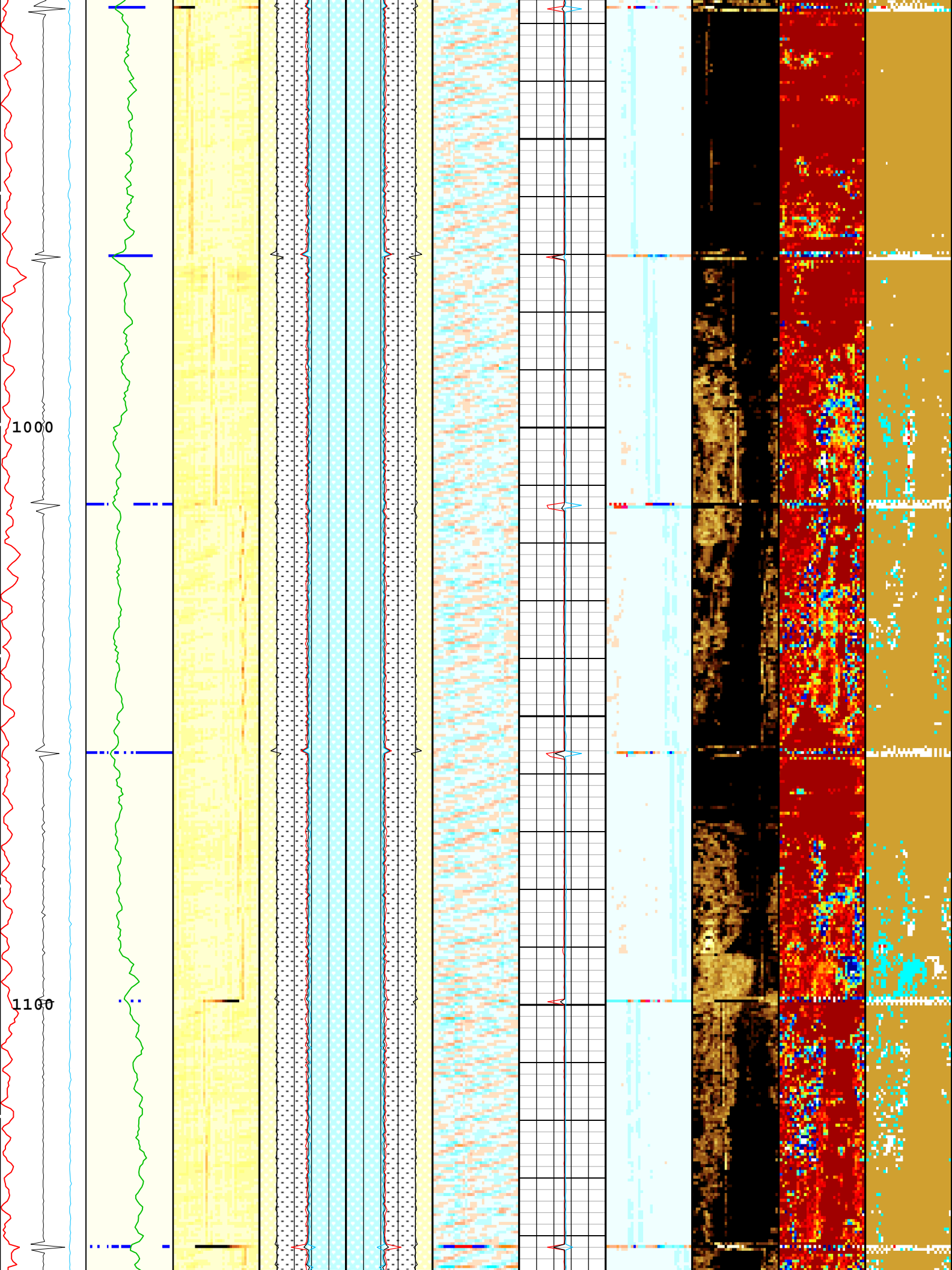


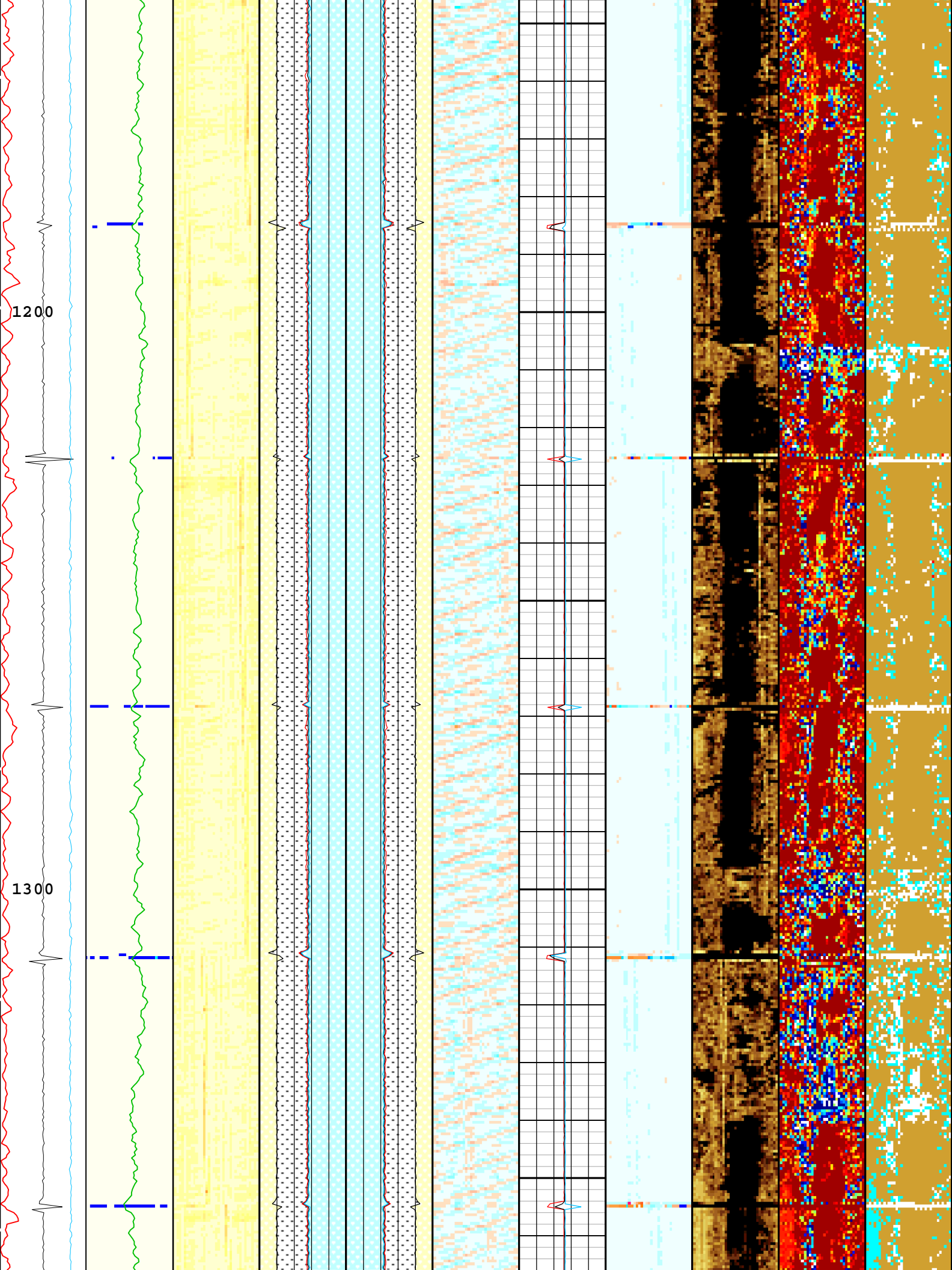


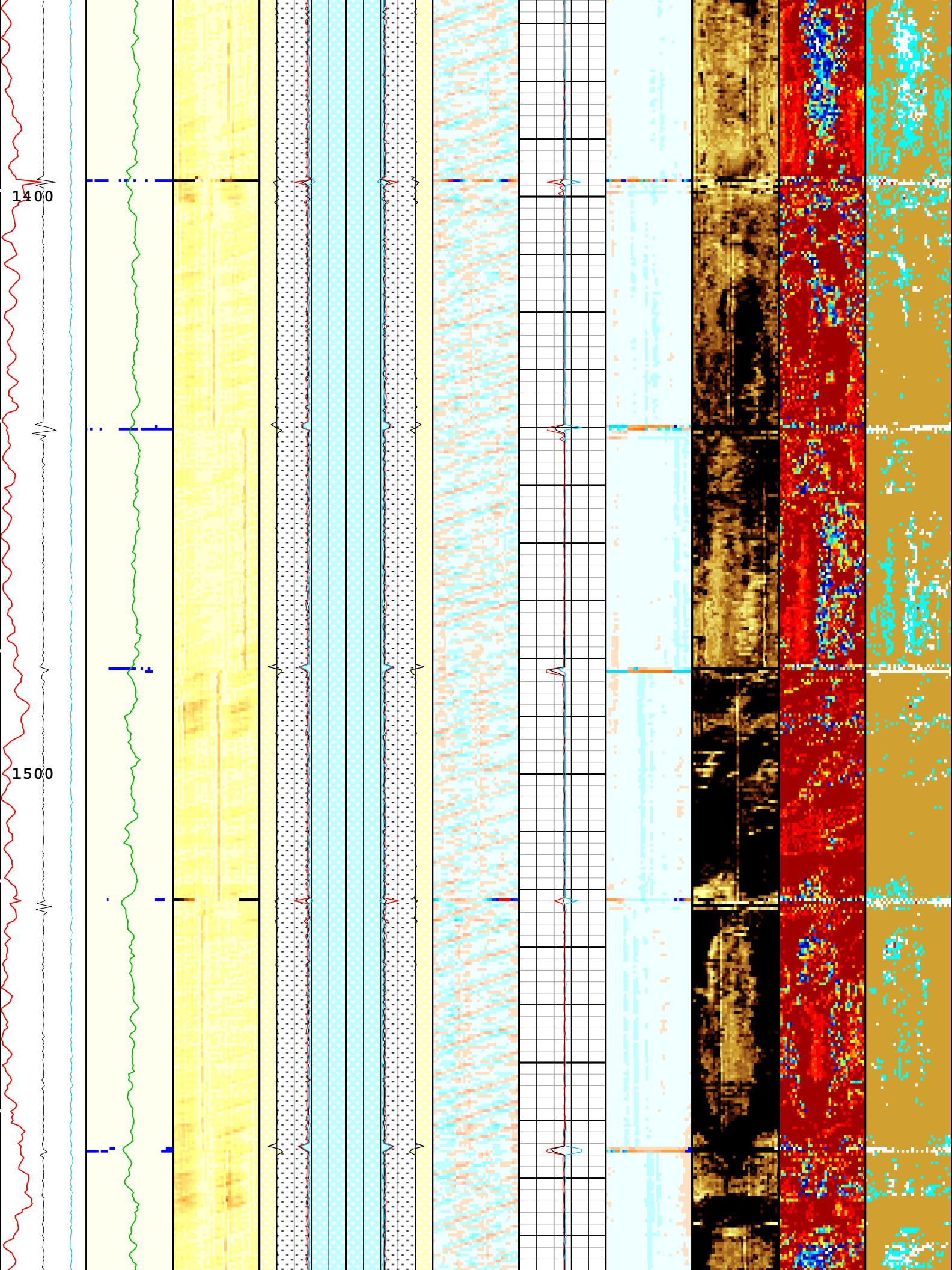


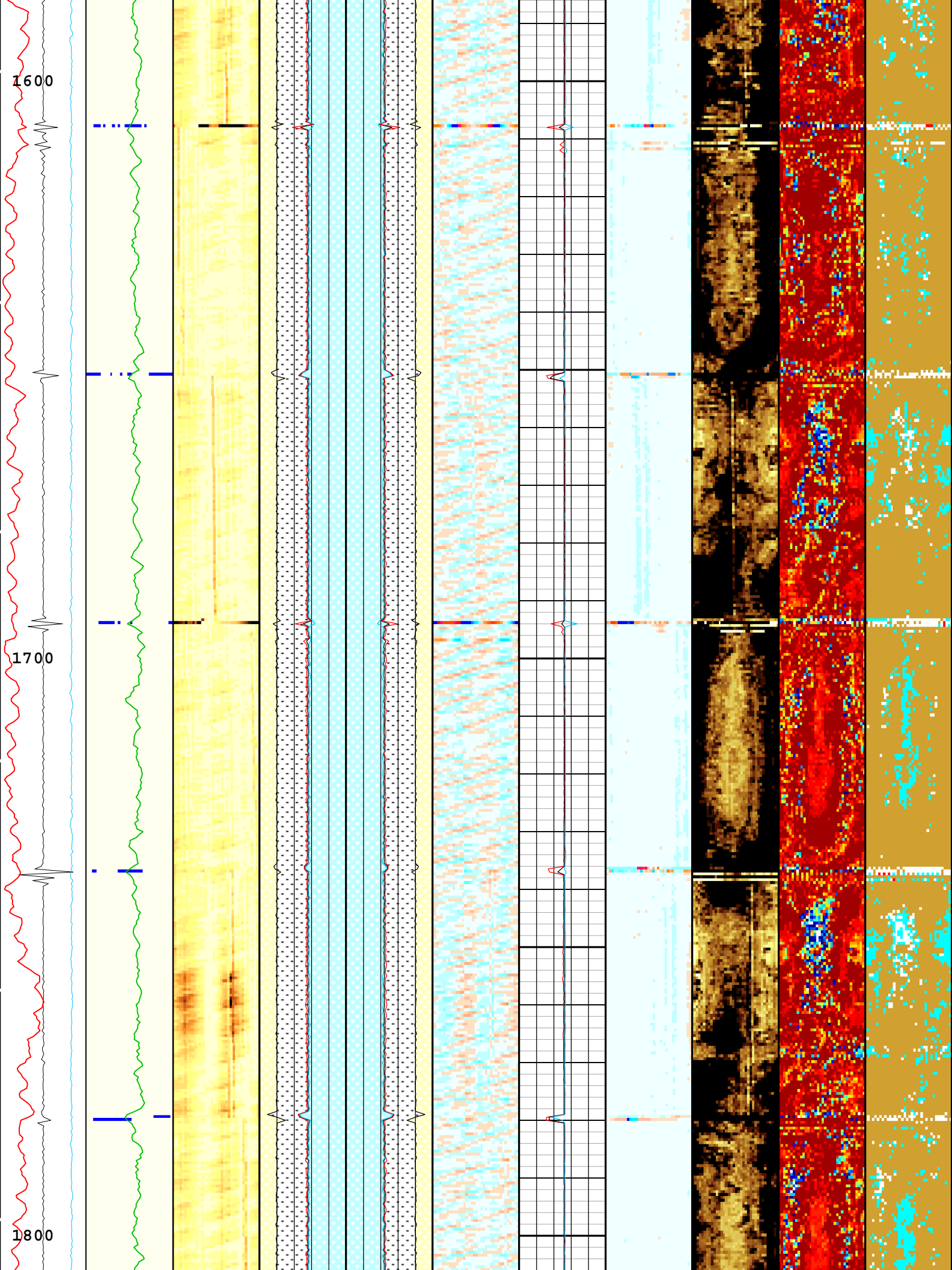


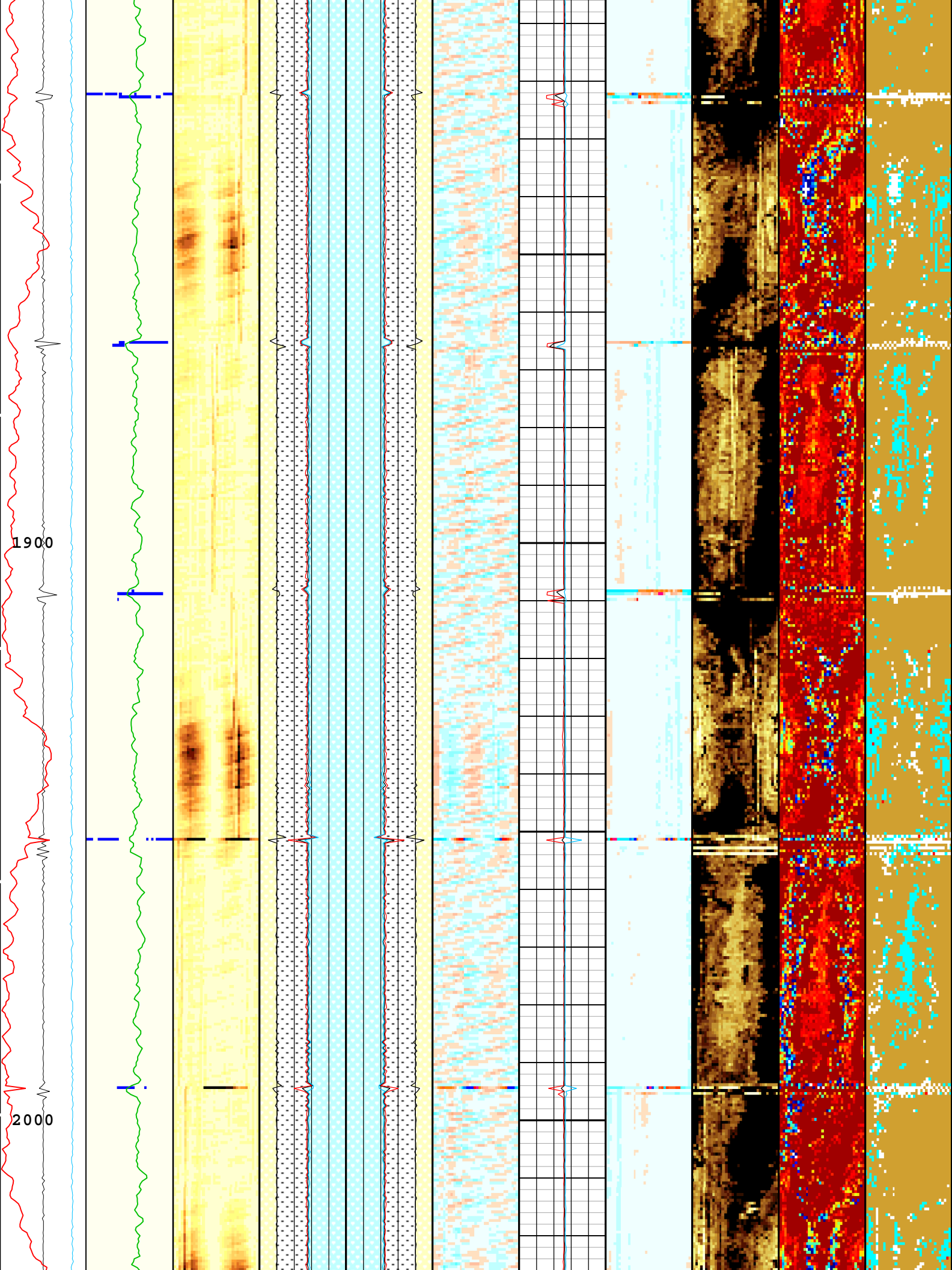


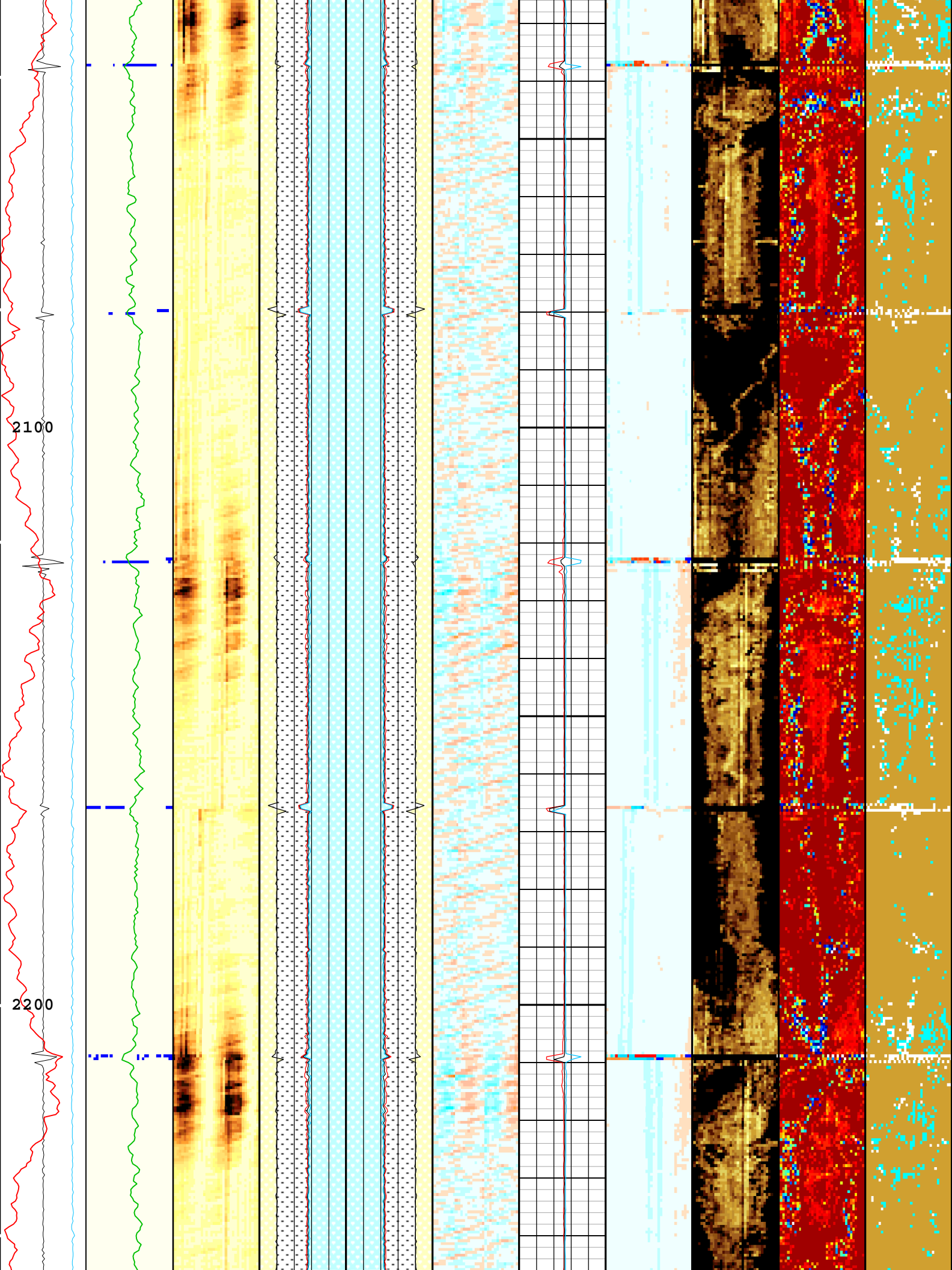


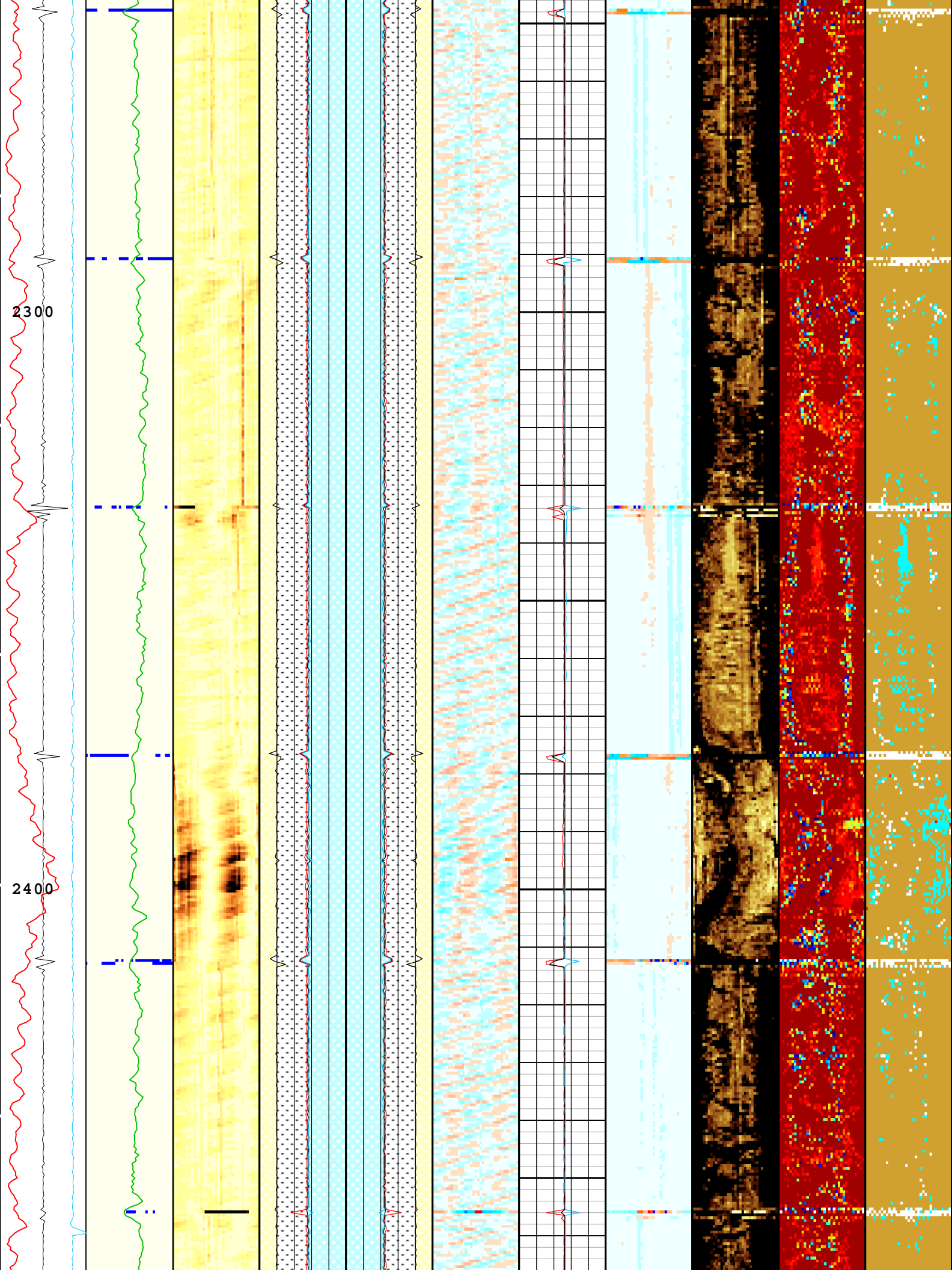


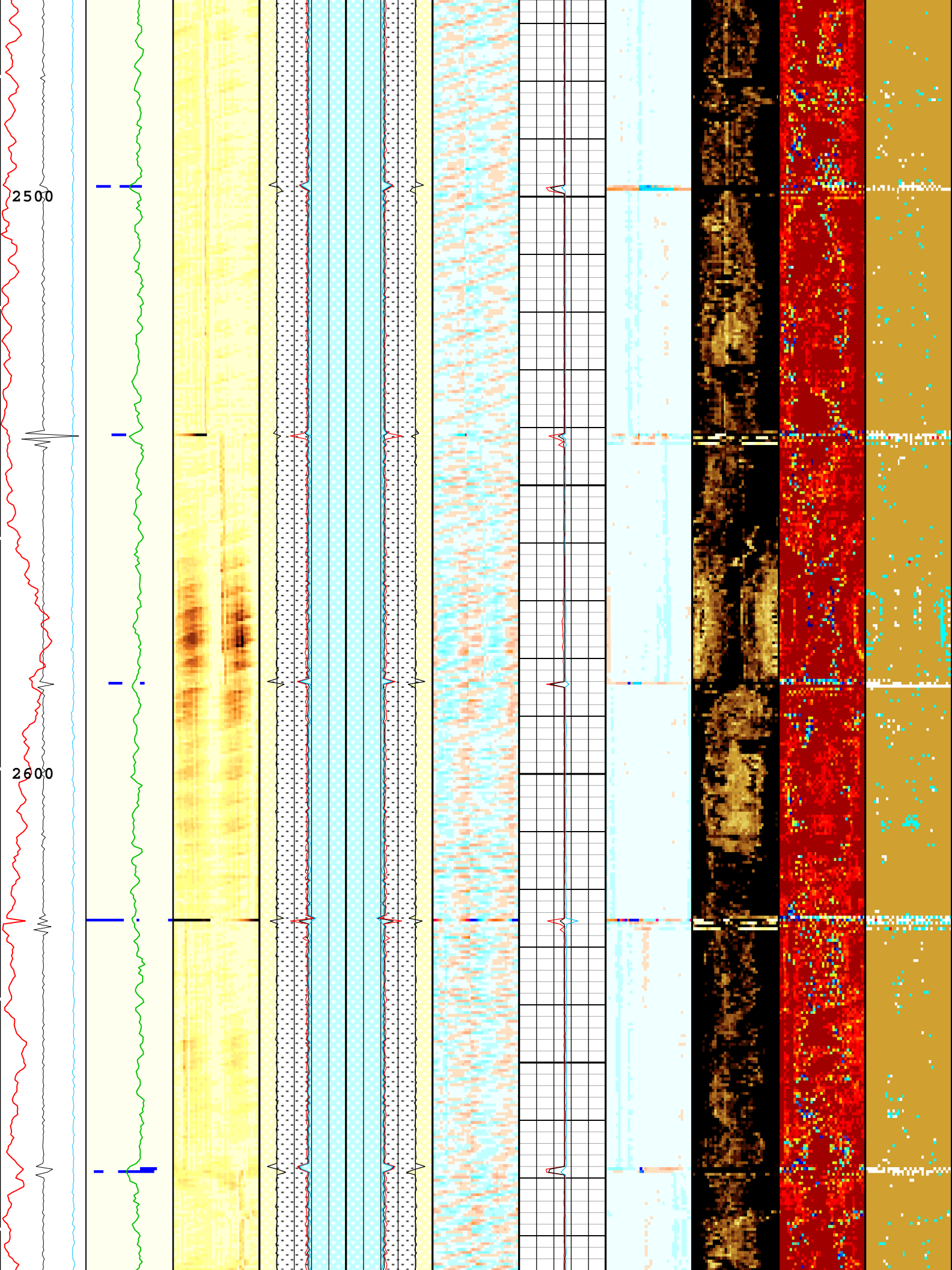


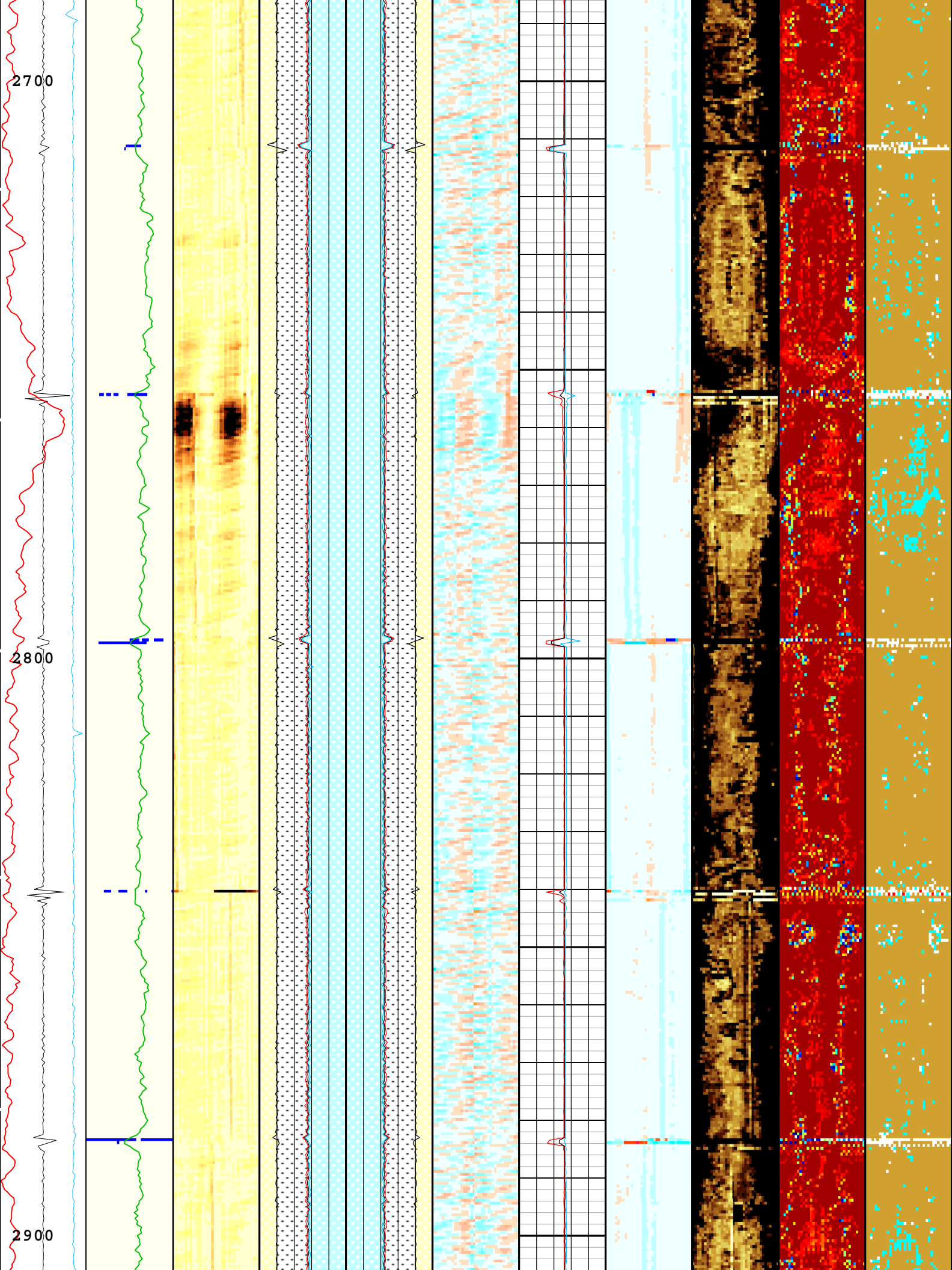


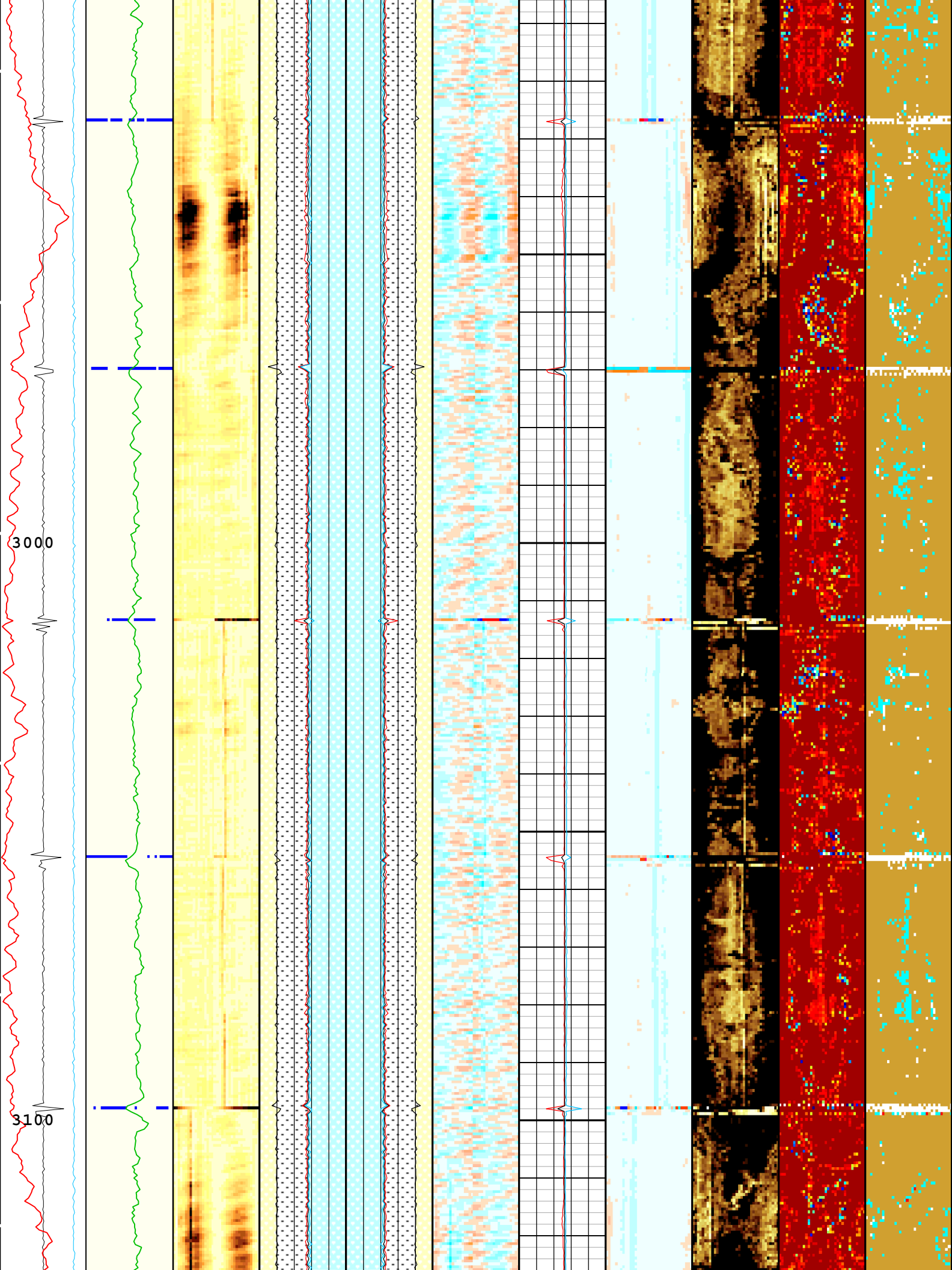


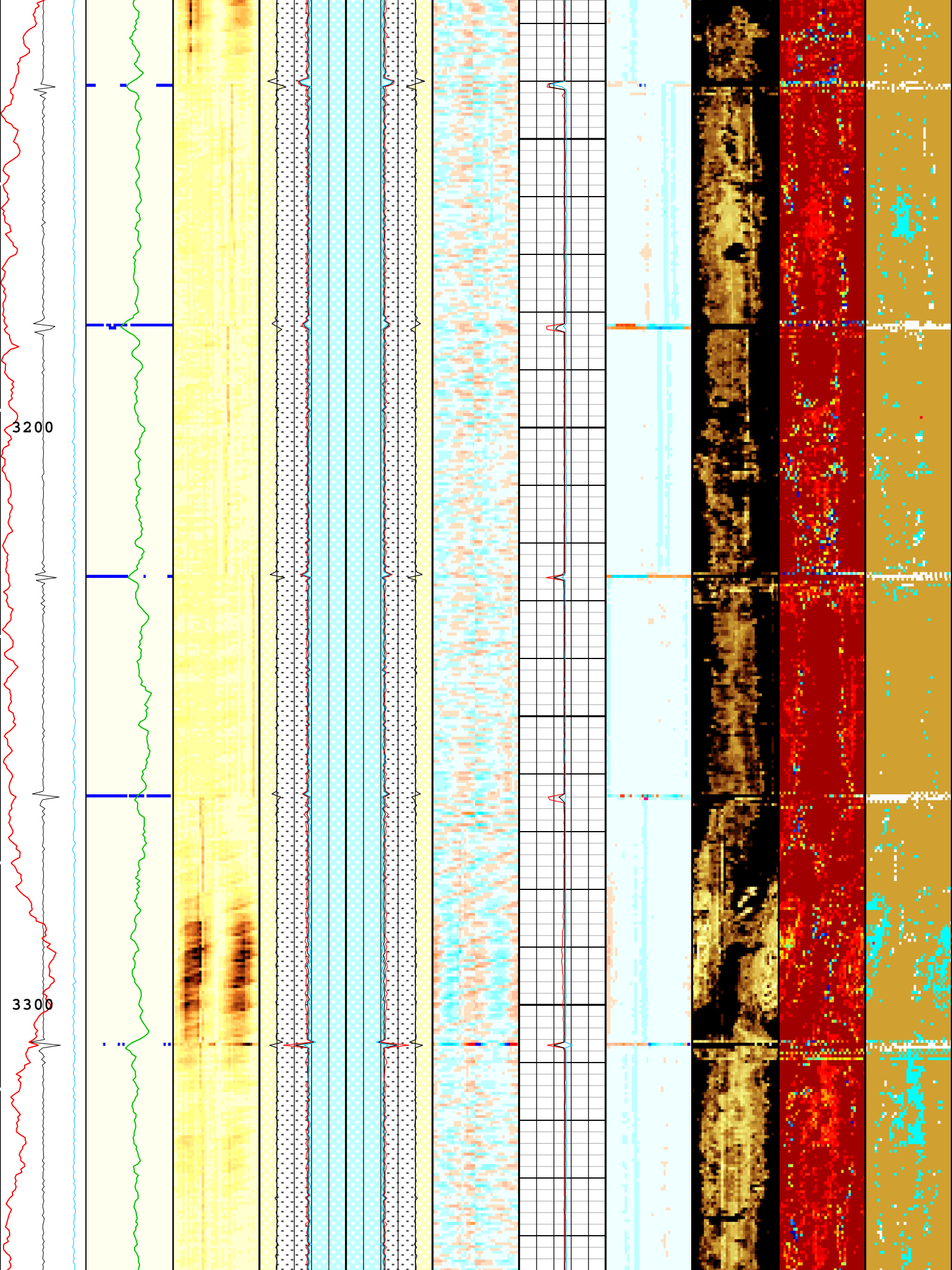


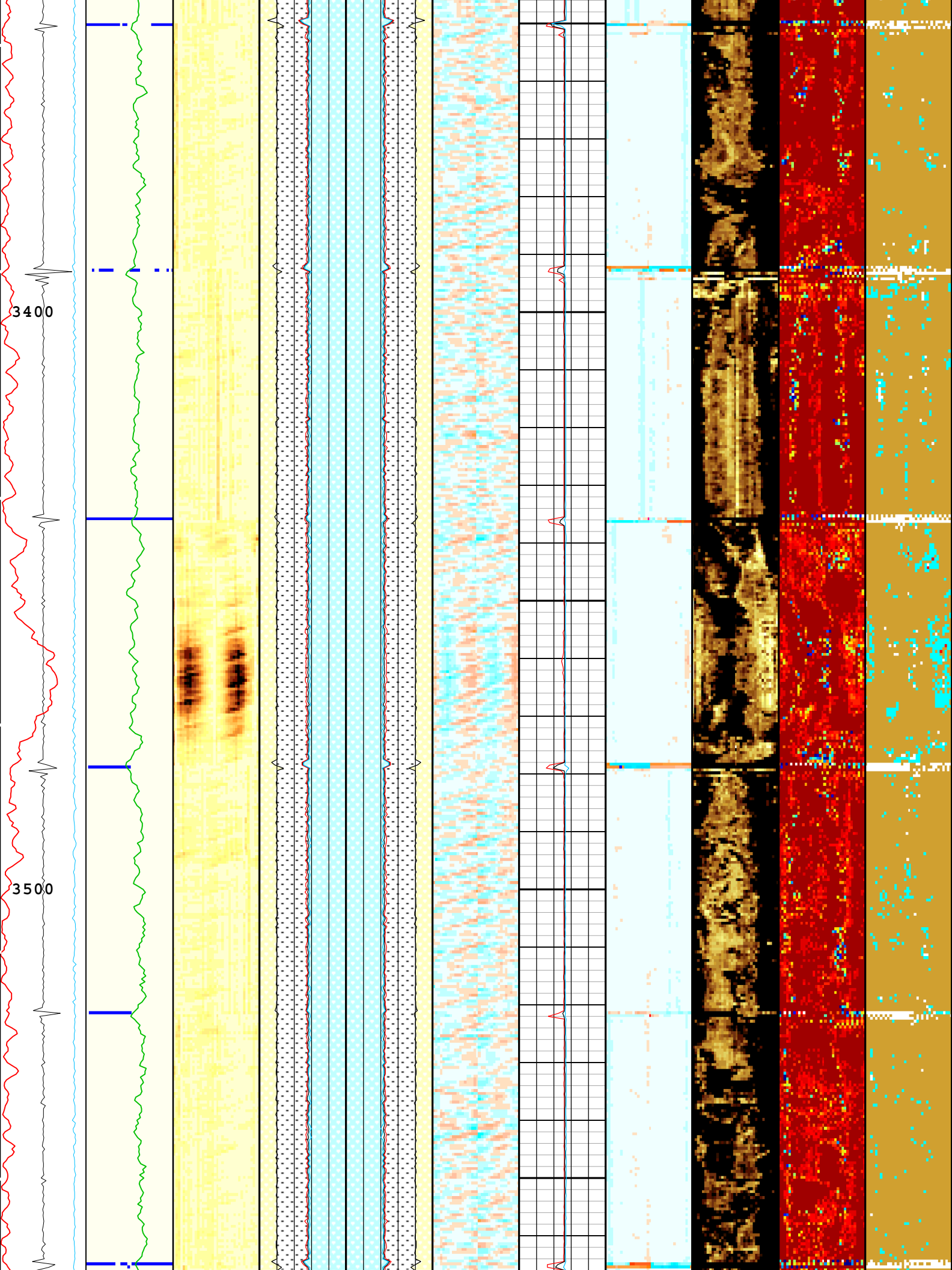


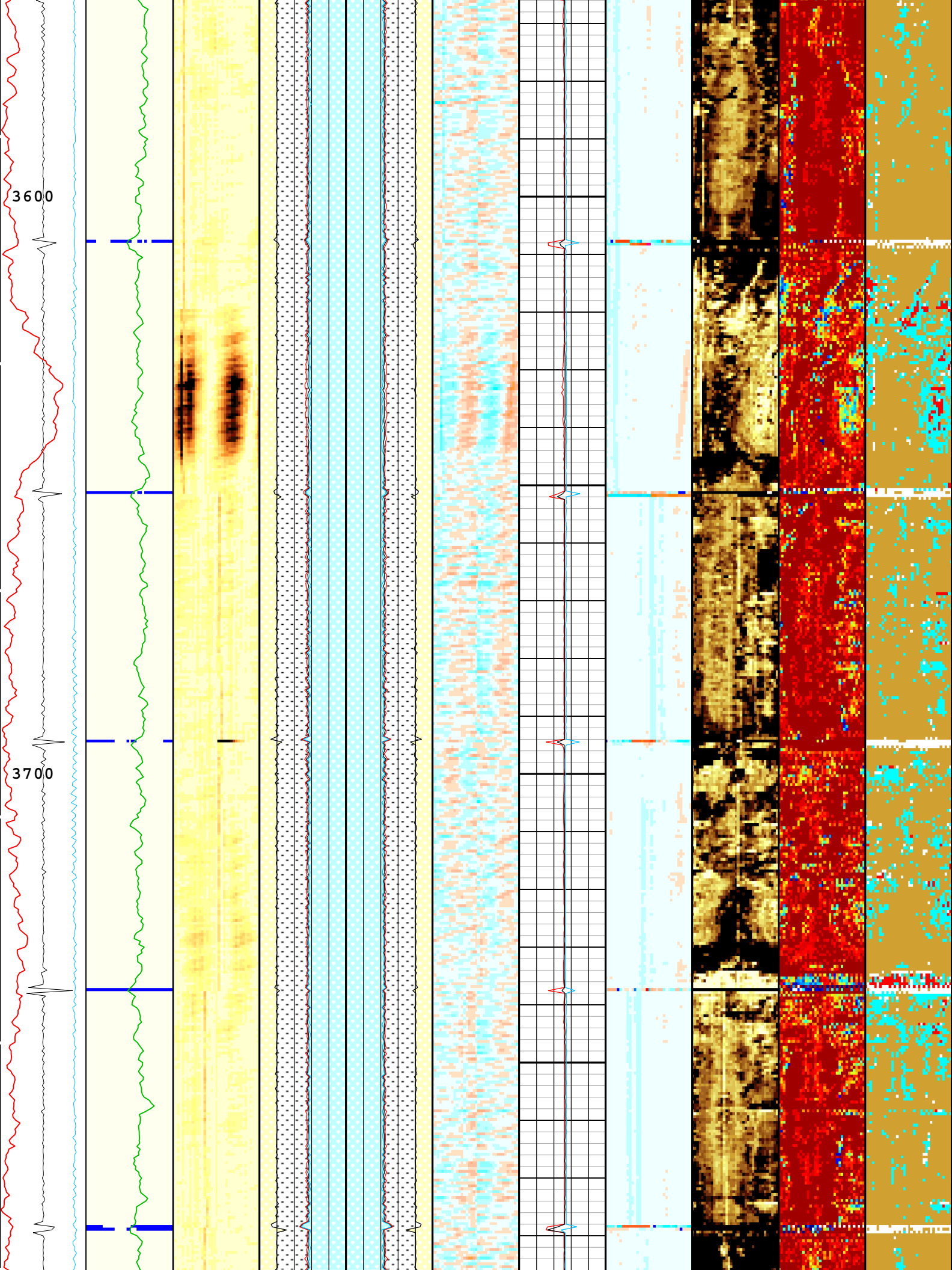


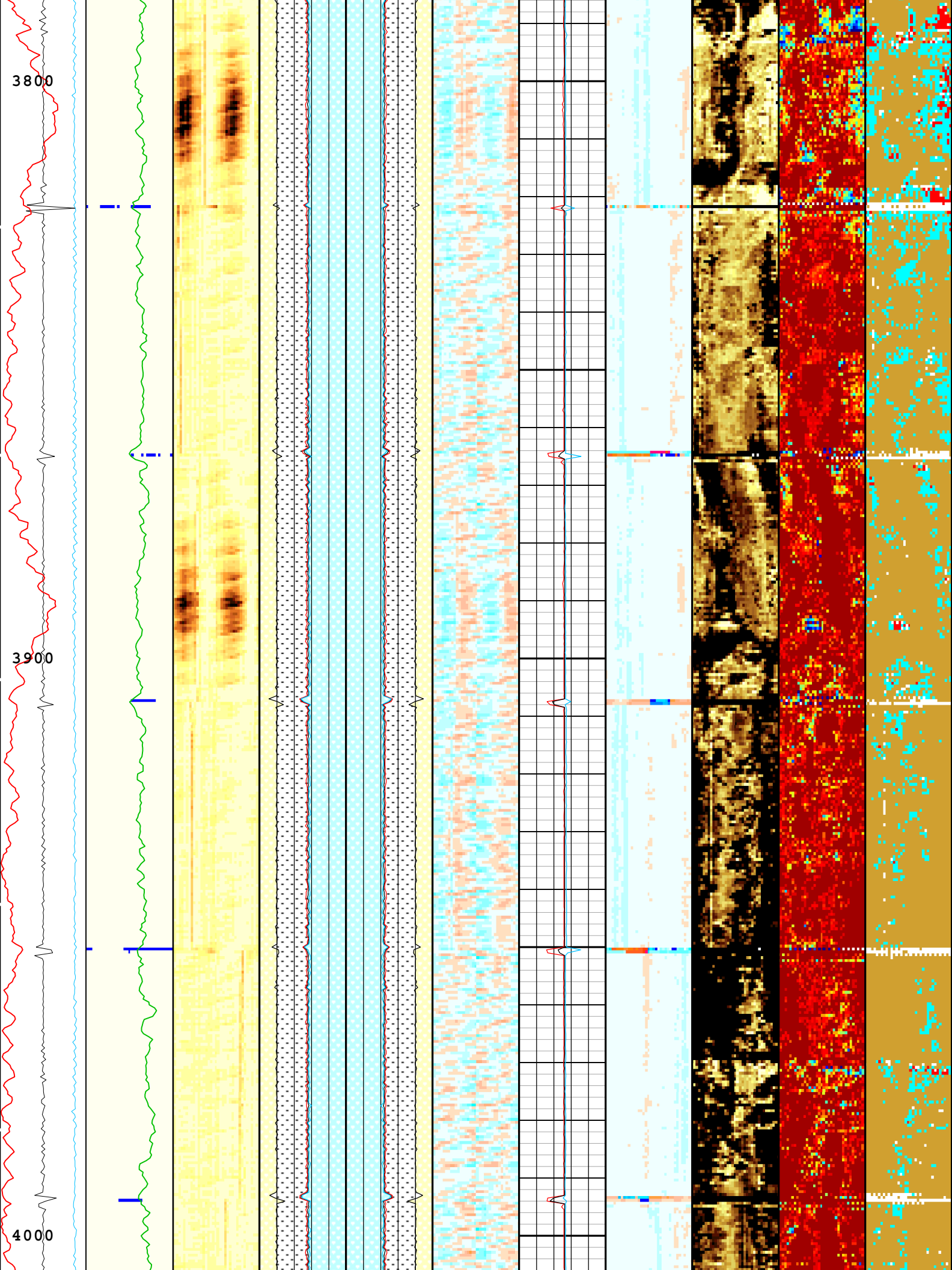


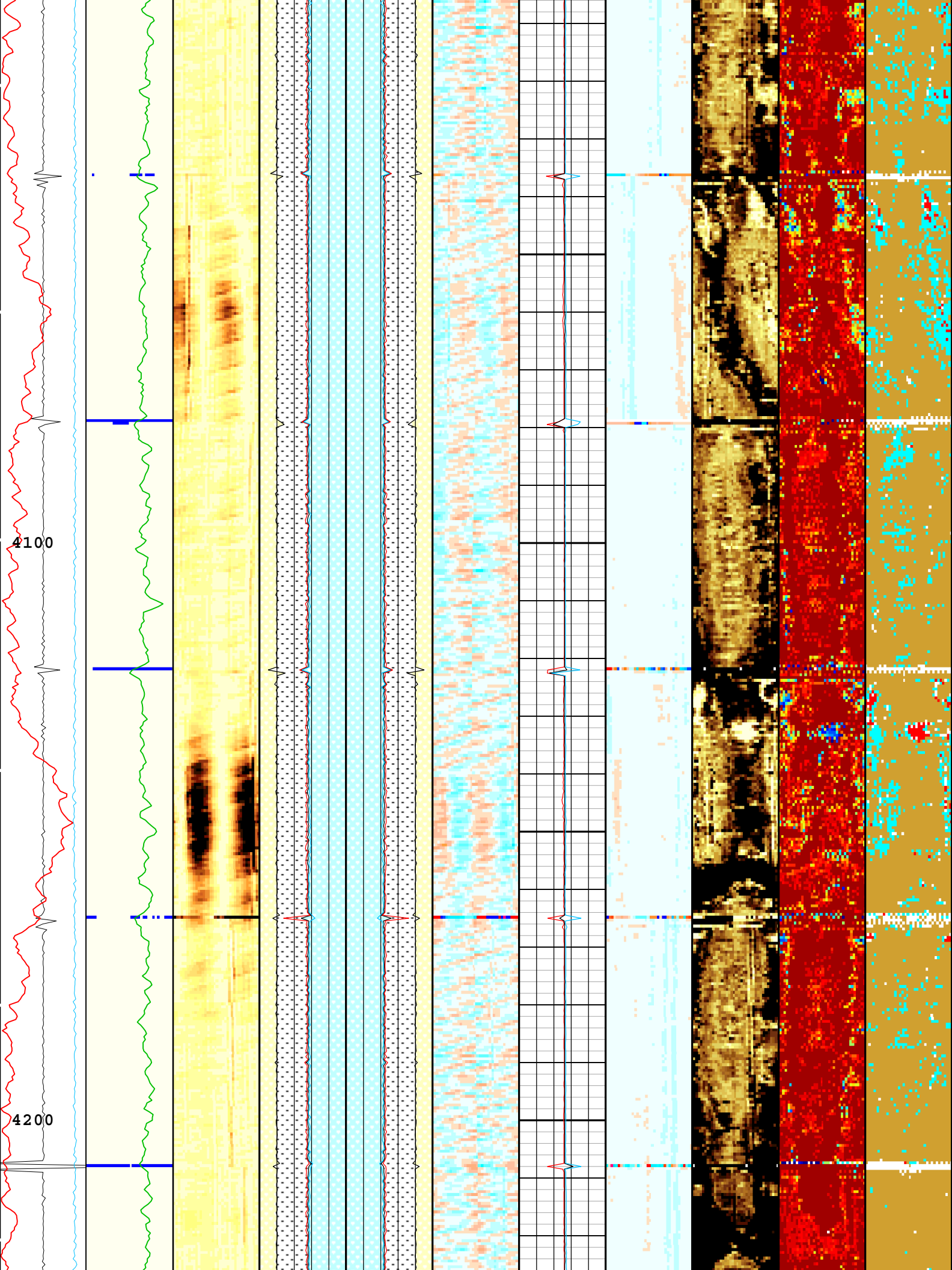


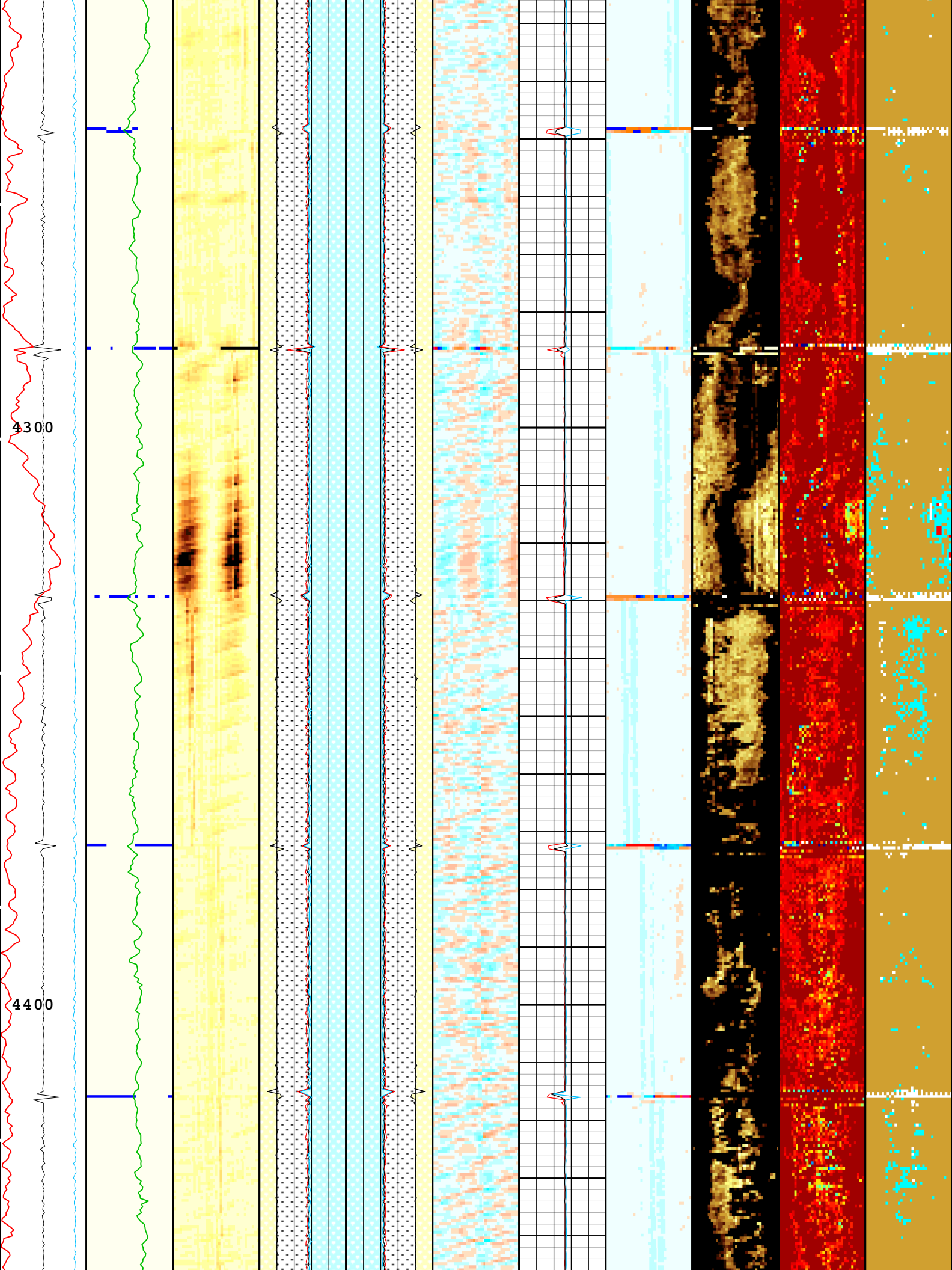


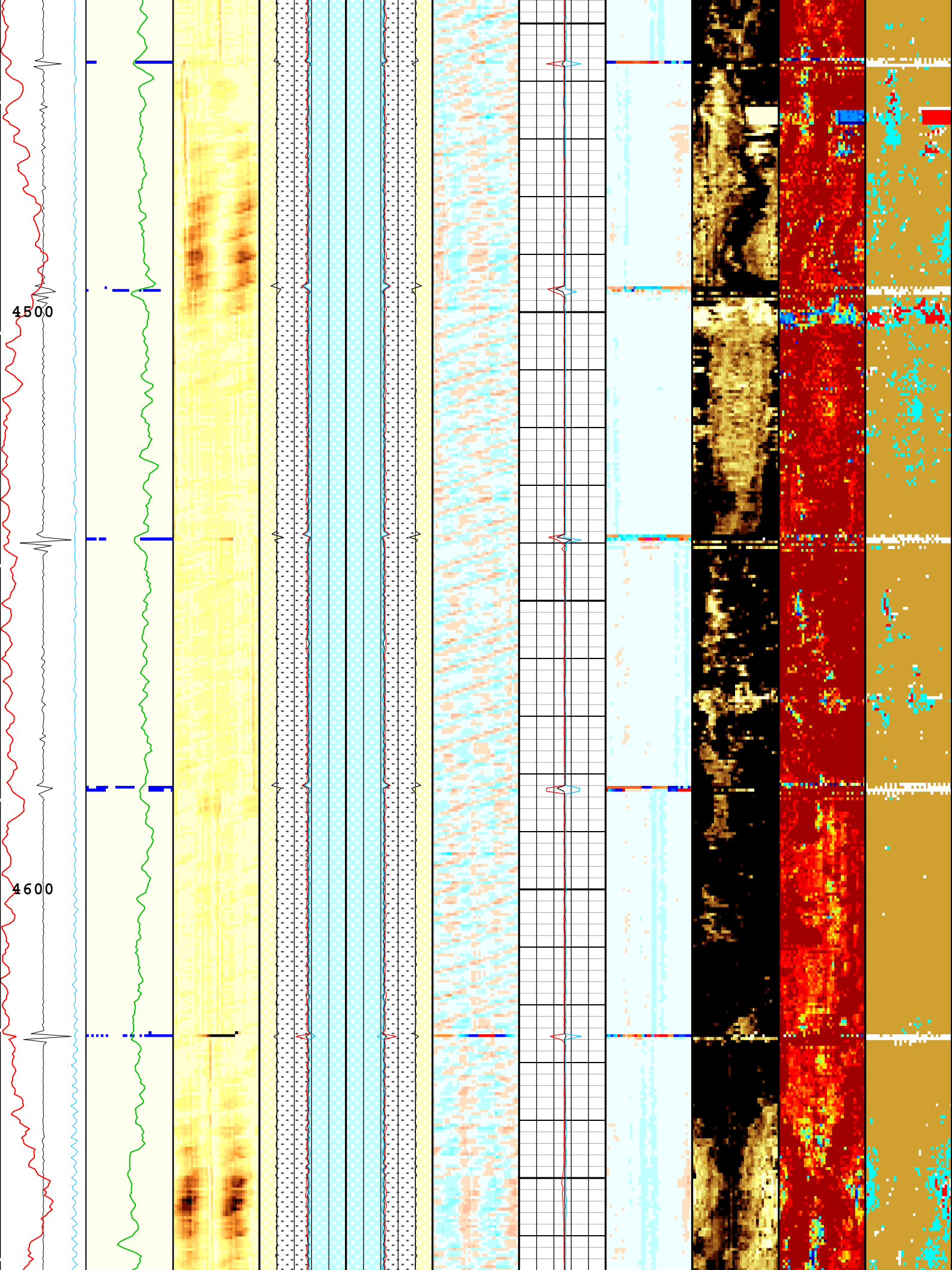


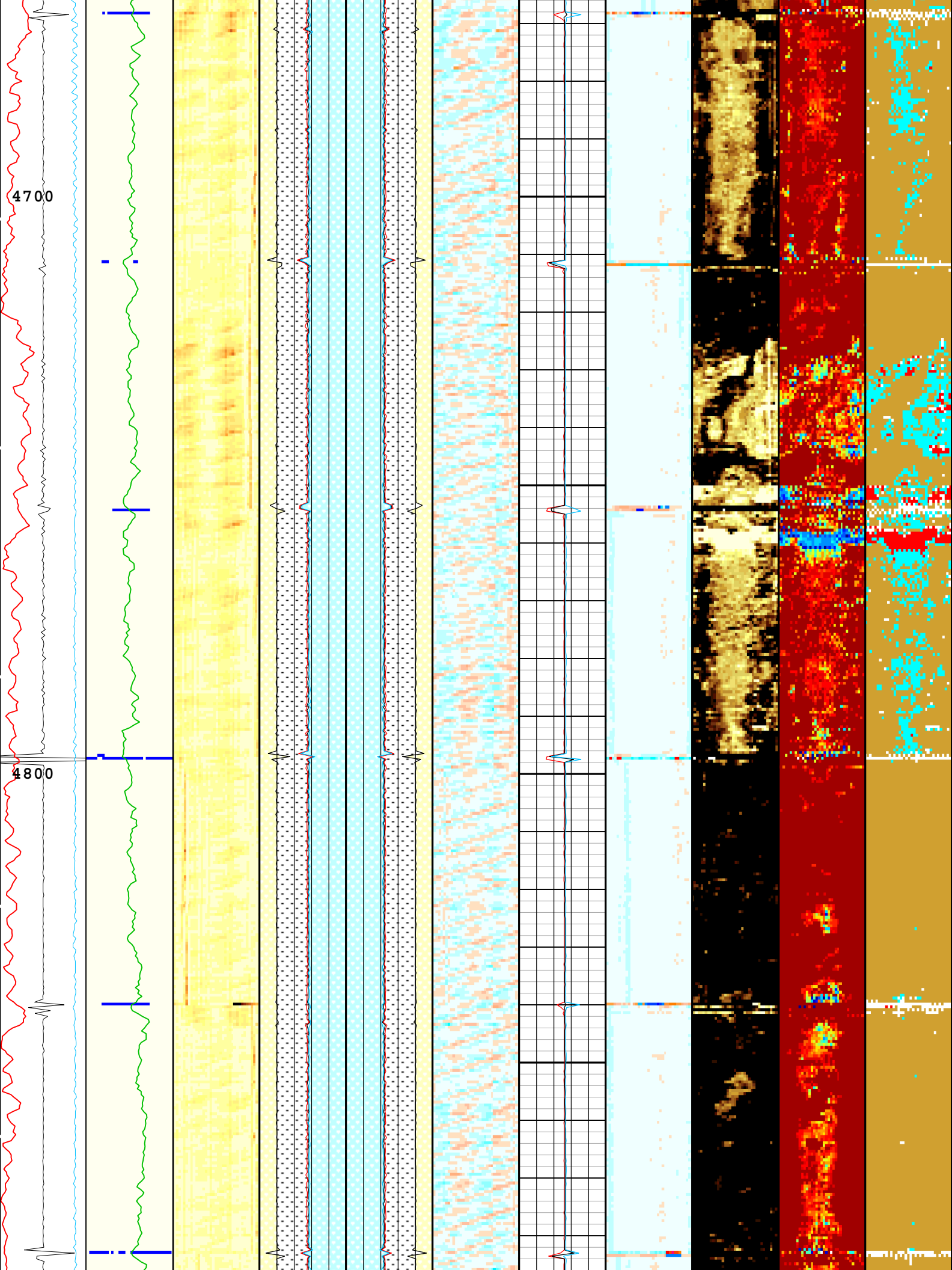


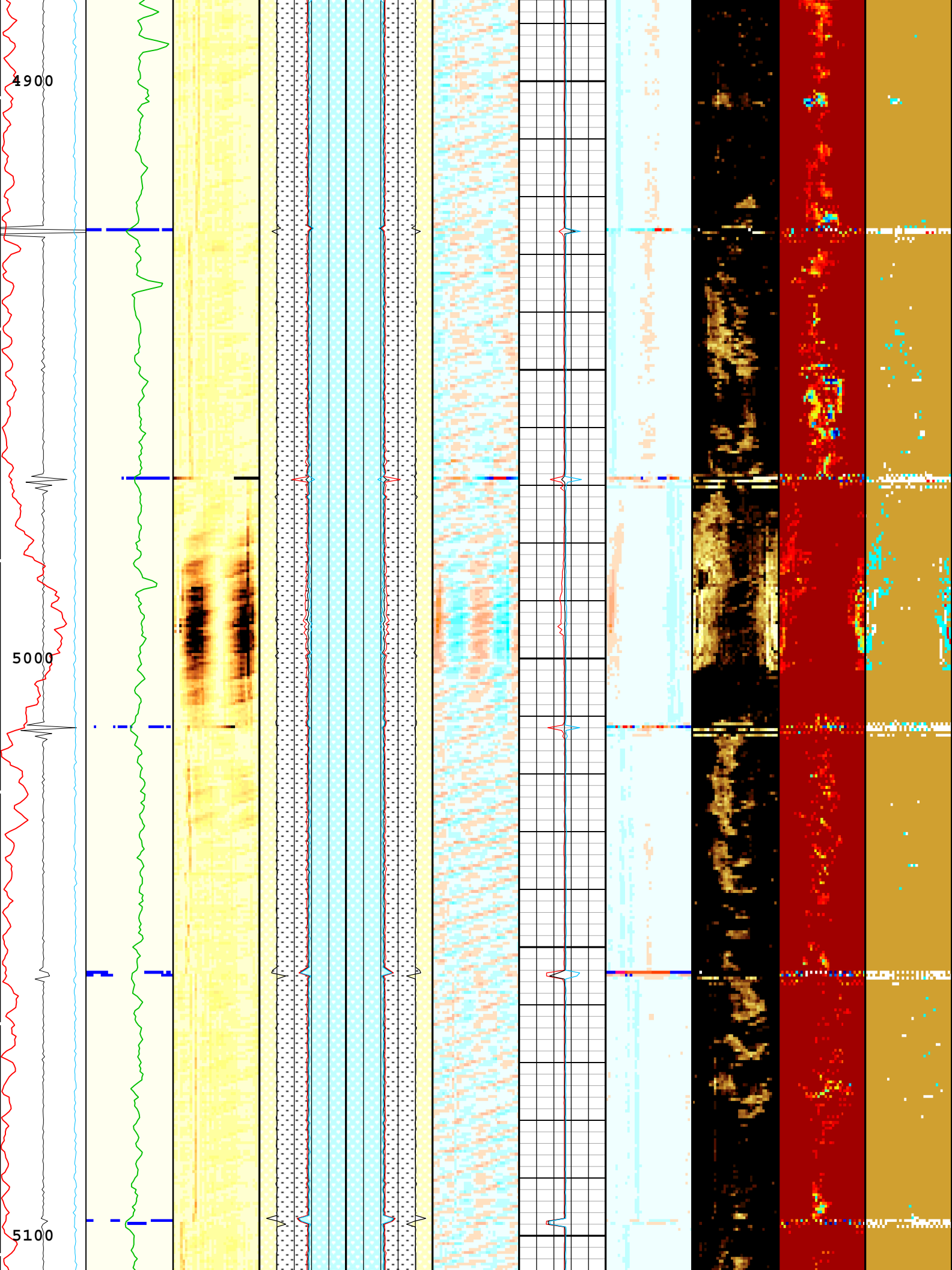


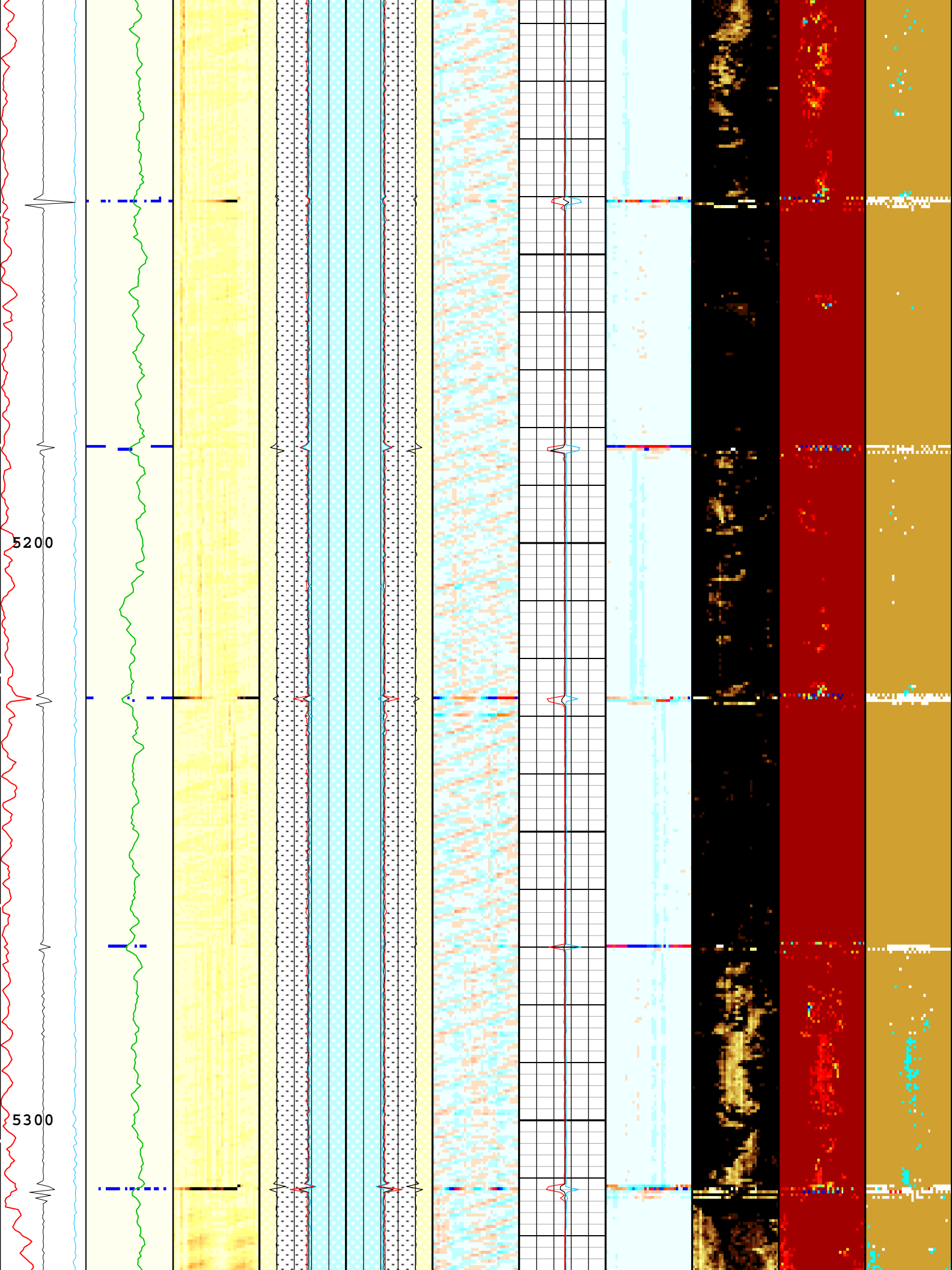


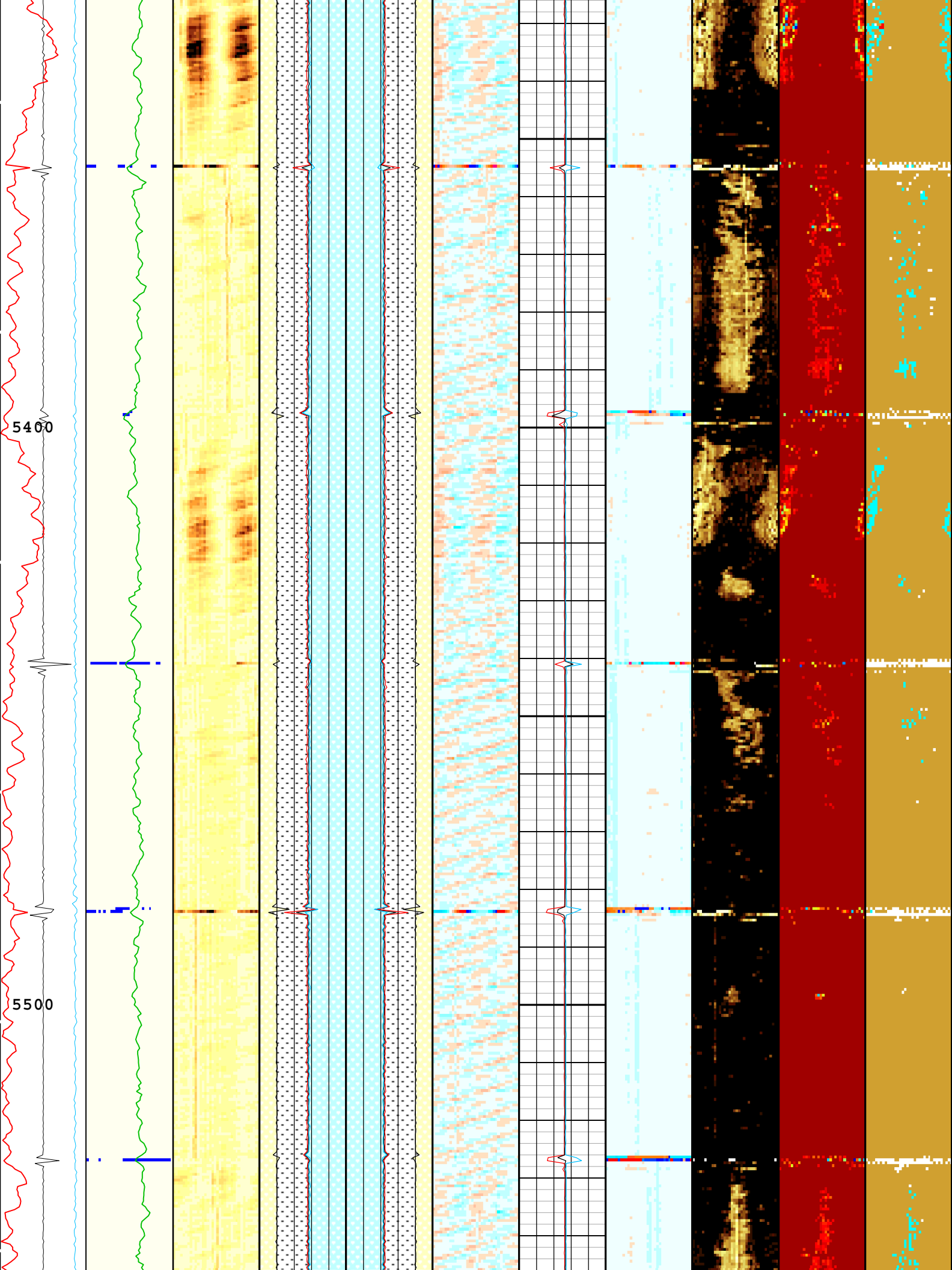


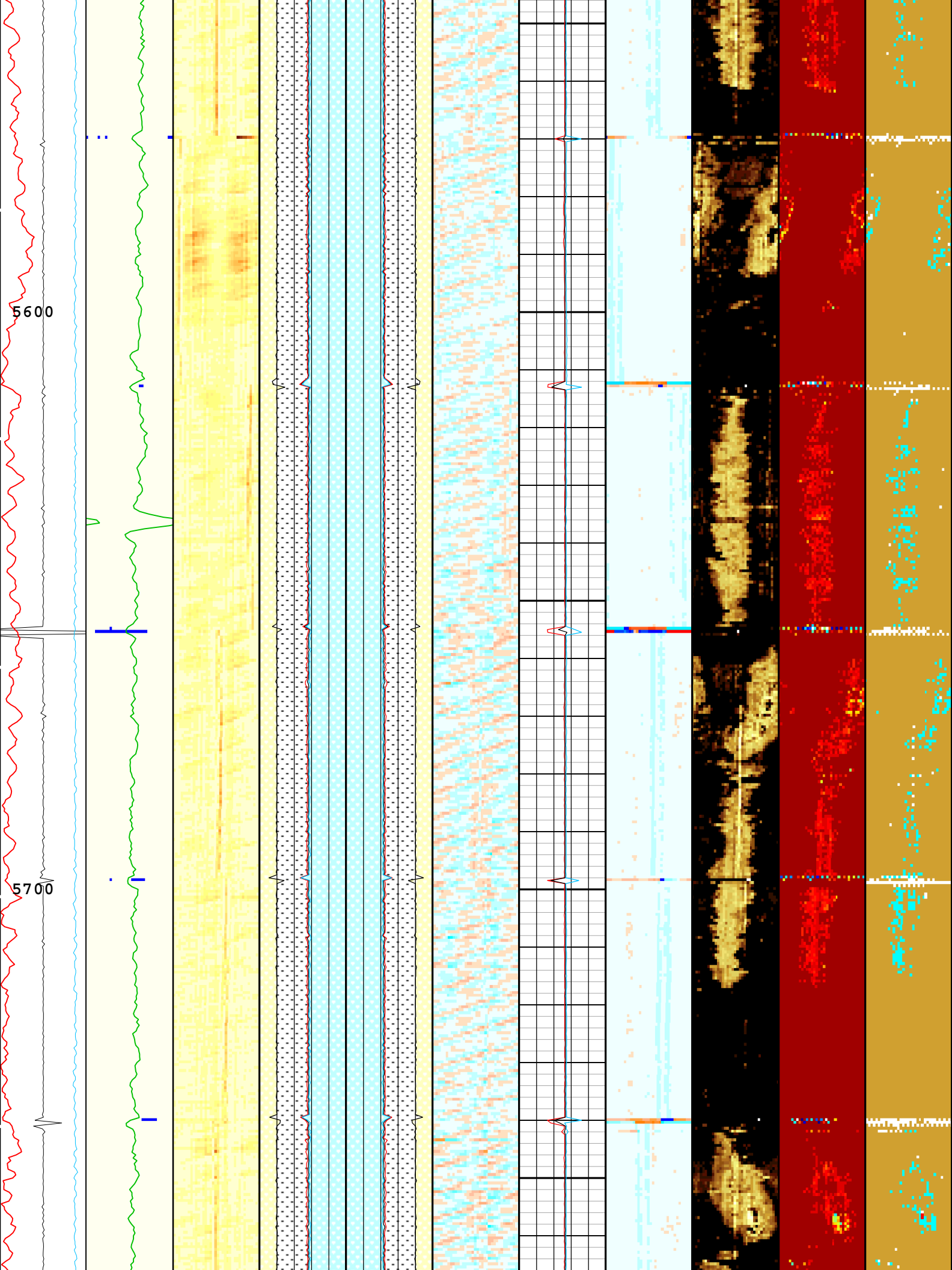


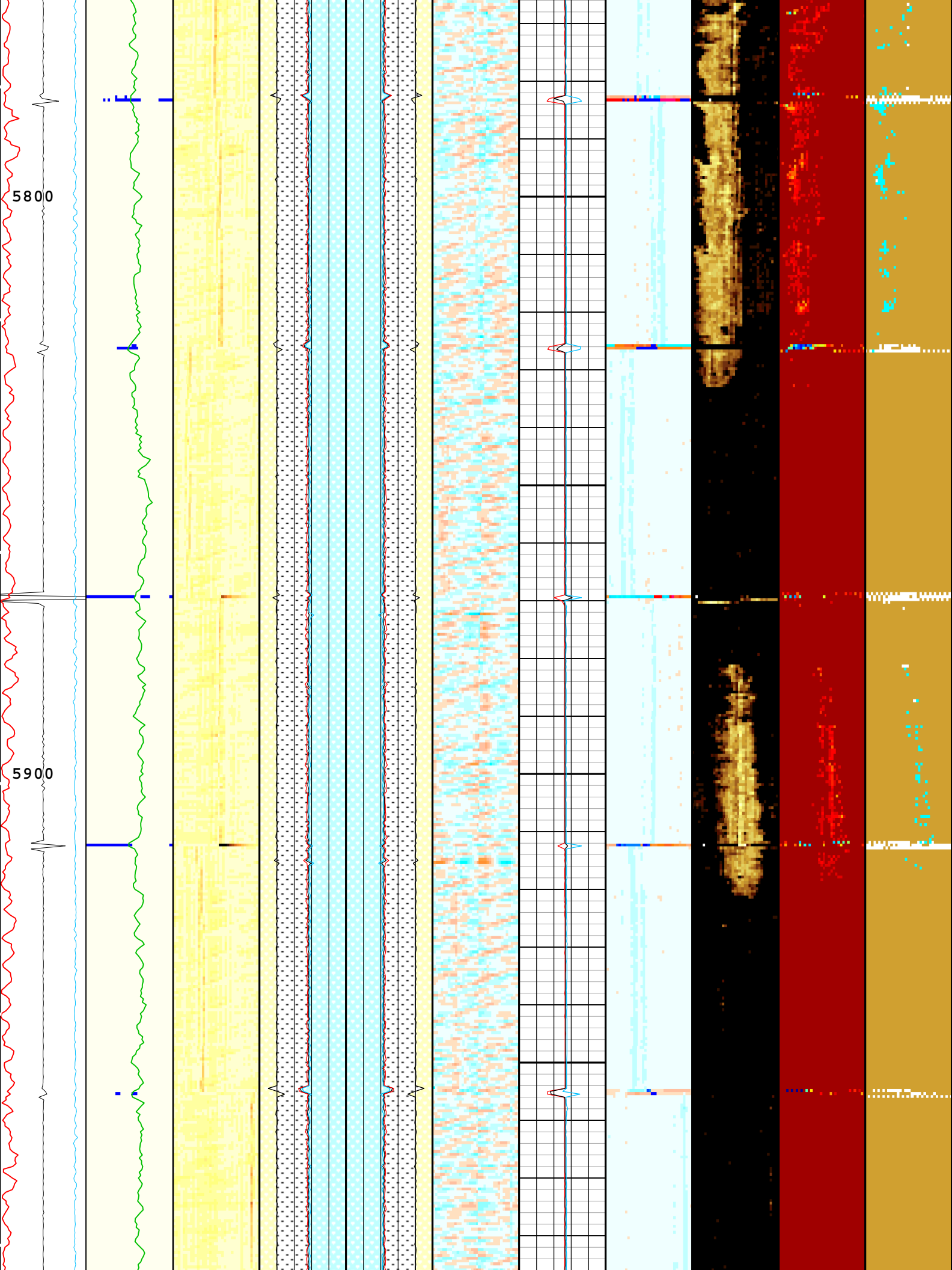


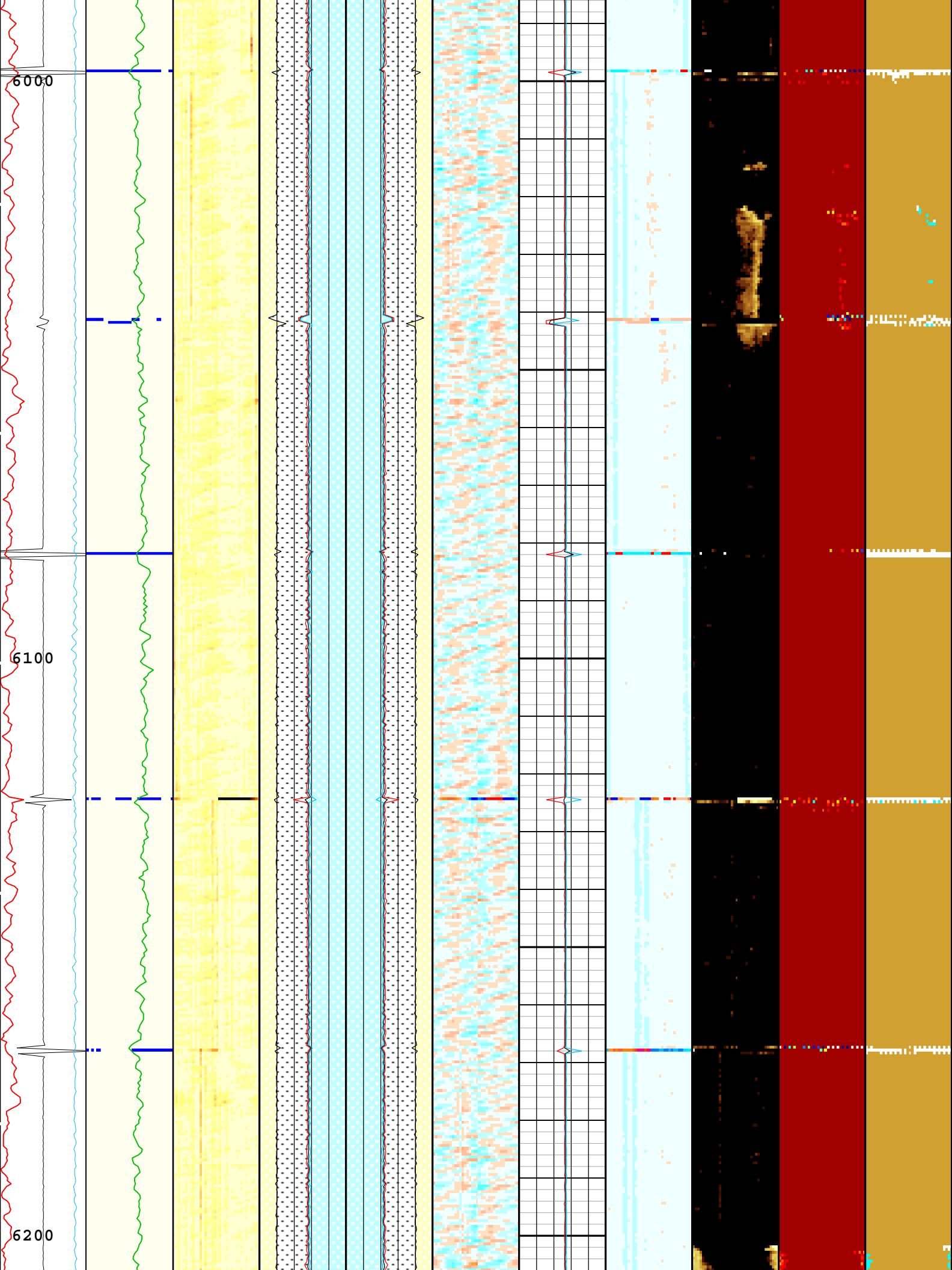


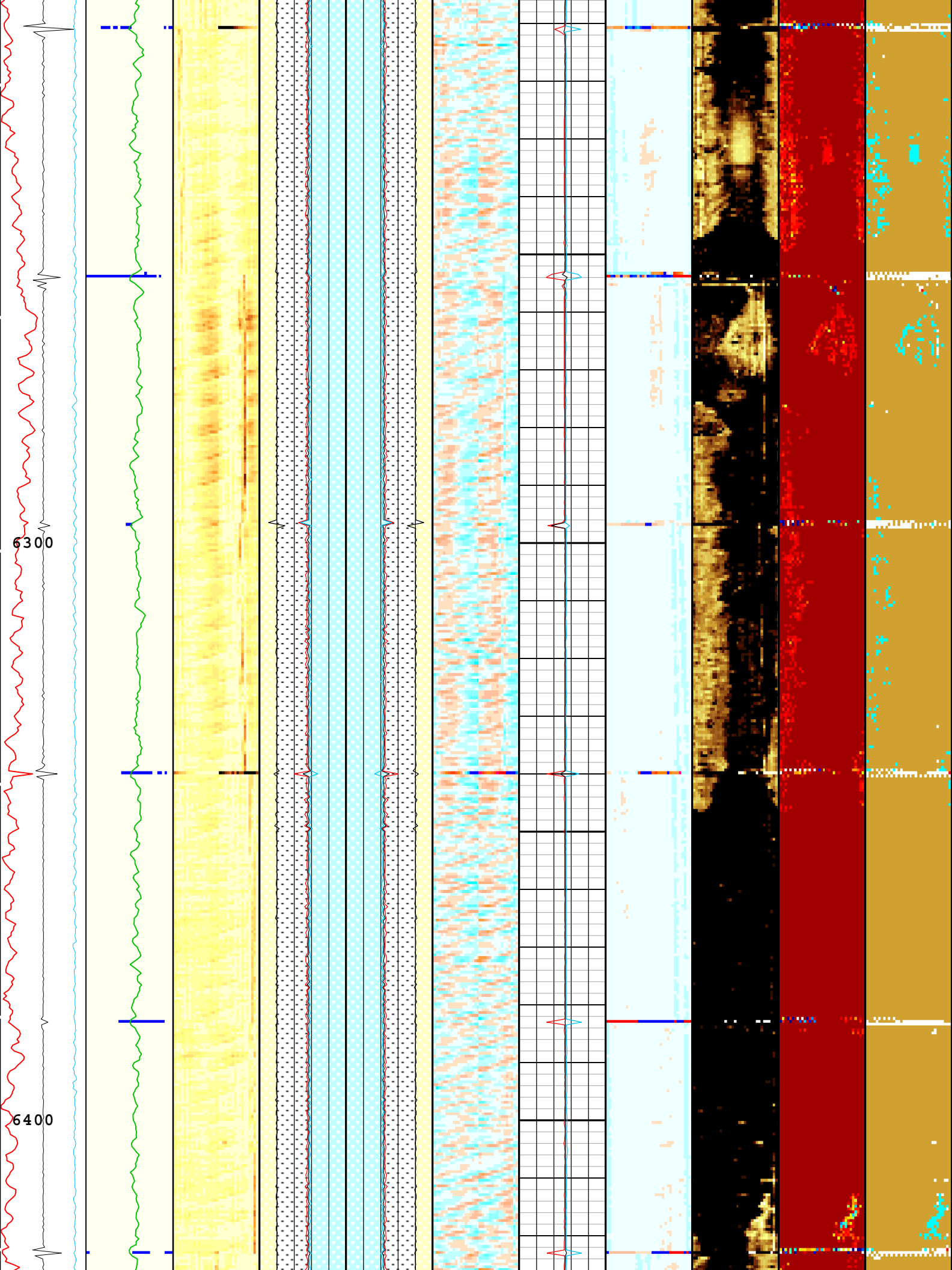


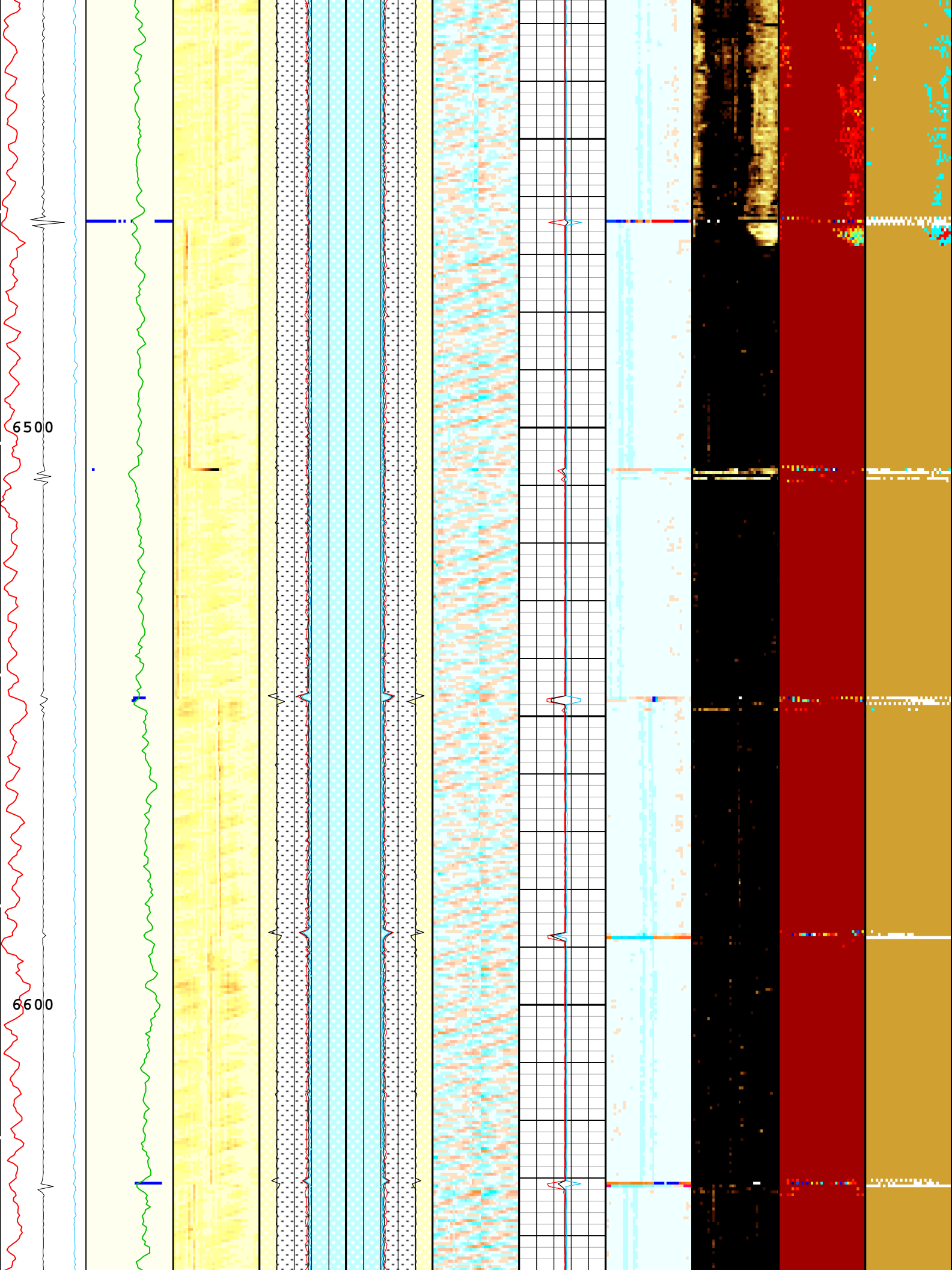


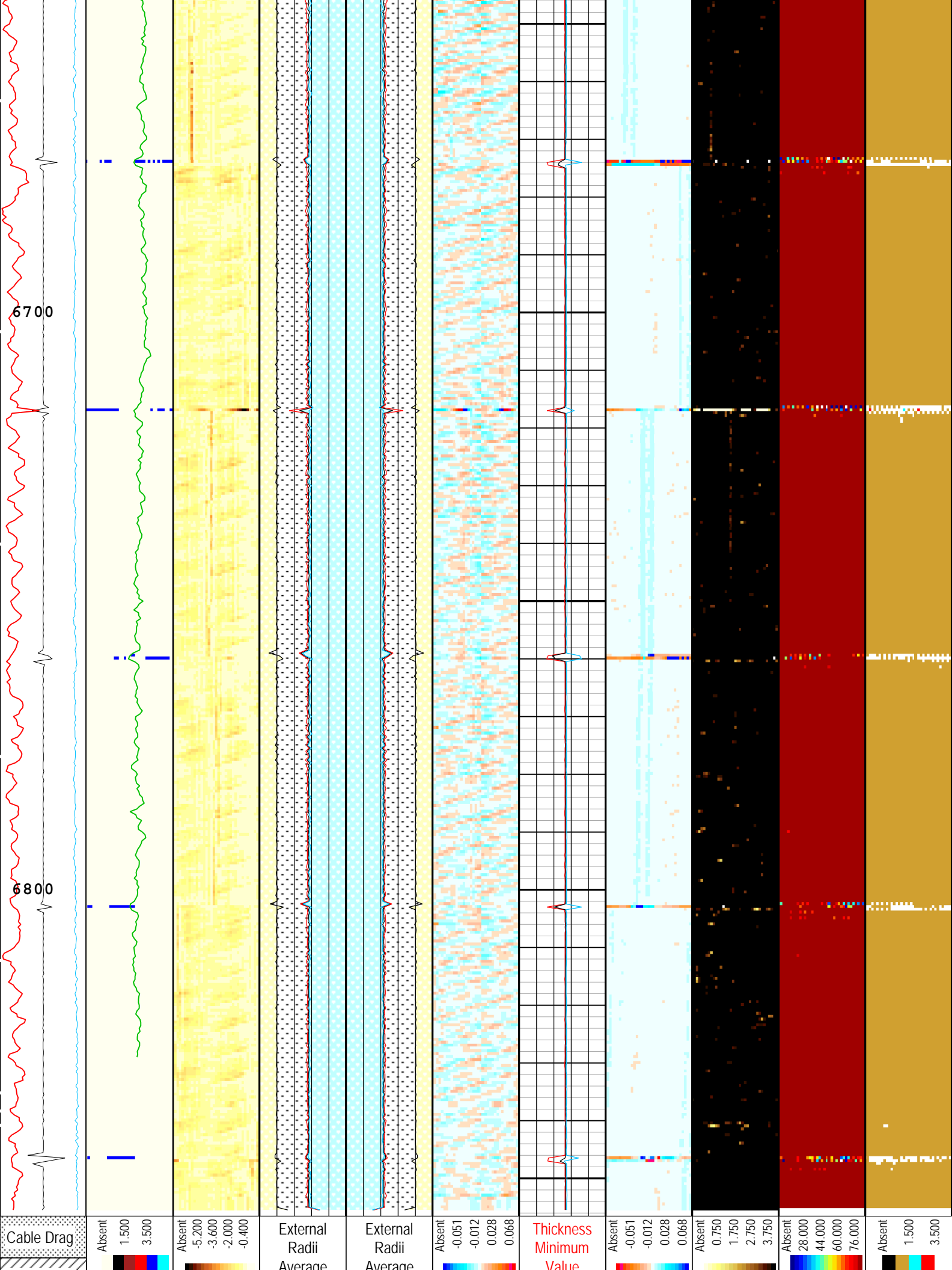












Tool_Tot. Drag	Explicit Normalizatio n	Explicit Normalizatio n	Average (ERAV) USIT-E	Average (ERAV) USIT-E	Explicit Normalizatio n	Value (THMN) USIT-E	Explicit Normalizatio n	Custom Normalizatio n	Custom Normalizatio n	Explicit Normalizatio n
Casing Collar Locator Ultrasonic (CCLU) USIT-E	USIT - USIT Processing Flags (UFLG) USIT-E	USIT - Amplitude of Wave (AWBK) USIT-E (dB)	3.7 in 2.7	2.7 in 3.7	USIT - Internal Radii Normalized (IRBK) USIT-E (in)	0.1 in 0.6	USIT - Casing Thickness Normalized (THBK) USIT-E (in)	USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)	USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)	USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E
-20 in 20	Orientation: Top of Hole U L B R U	Orientation: Top of Hole U L B R U	3.7 in 2.7	2.7 in 3.7	Orientation: Top of Hole U L B R U	0.1 in 0.6	Orientation: Top of Hole U L B R U	Orientation: Top of Hole U L B R U	Orientation: Top of Hole U L B R U	Orientation: Top of Hole U L B R U
Amplitude of Eccentering (ECCE) USIT-E	Gamma Ray (GR) SGT-N		Internal Radius Maximum Value (IRMX) USIT-E	Internal Radius Maximum Value (IRMX) USIT-E		Thickness Maximum Value (THMX) USIT-E				
0 in 0.5	0 gAPI 150		3.7 in 2.7	2.7 in 3.7		0.1 in 0.6				
Motor Revolution Speed (RSAV) USIT-E			Internal Radius Minimum Value (IRMN) USIT-E	Internal Radius Minimum Value (IRMN) USIT-E						
6 c/s 7.5			3.7 in 2.7	2.7 in 3.7						
Stuck Tool Indicator, Total (STIT)										
0 ft 50										

TIME_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Composite Format: USI IBC SLG Composite Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 18-Jun-2014 23:07:40

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
BARI	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	7852	ft
CDEN.1	Cement Density	USIT-E	0	lbm/gal
CDEN.2	Cement Density	SGT-N	16.69	lbm/gal
CMTY	Cement Type	USIT-E	Light Cement	
CTHILGR	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.352	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	10.01	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS	
GR_MULTIPLIER	Gamma Ray Multiplier	SGT-N	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	7.81	dB/m
IBC_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_BINPROC	ICE Bin Processing Depth Interval	USIT-E	0	ft
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	Depth Zoned	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.07	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
OCDI	Outer Casing Diameter	USIT-E	0	in
OCSH	Outer Casing Shoe	USIT-E	0	ft
OCWE	Outer Casing Weight	USIT-E	0	lbm/ft
RAPID_OPTION	Rapid Access Computation Option	USIT-E	Off	
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
SOGR	Standoff Distance of the Gamma Ray Tool	SGT-N	0	in
TCUB	T^3 Processing Level	USIT-E	Loop	
TD	Total Measured Depth	Borehole	7000	ft
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS	Tool Position: Centered or Eccentered	SGT-N	Eccentered	
UDFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0	Mrayl
UFAO	SIT Flexural Attenuation Offset	USIT-E	1.88	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
UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
UTHDP	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	1.6	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	0	1000
BS	8.75	1000	6856.5
MEAS_WLEN	22.5	0	6856.5
All depth are actual.			

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOTF	Distance between Opposite Transducer Faces	USIT-E	2.874	in
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	2700	ft/h

TMUC	Type of Mud	USIT-E	BRI	
UFWB	Far Receiver Window Begin Time	USIT-E	Time Zoned	us
UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
UNWB	Near Receiver Window Begin Time	USIT-E	102	us
UNWE	Near Receiver Window End Time	USIT-E	142	us
USFR	Ultrasonic Sampling Frequency	USIT-E	500000	Hz
USI_UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
USI_UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	6855	ft
USSP	Ultrasonic Service	USIT-E	IBC	
UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	37.61	us
WINE	Window End Time	USIT-E	77.61	us

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	30	18-Jun-2014 14:56:53	18-Jun-2014 15:06:20	6856.55	6609.45
EMXV	25	18-Jun-2014 15:06:20	18-Jun-2014 15:06:29	6609.45	6603.59
EMXV	30	18-Jun-2014 15:06:29	18-Jun-2014 15:06:33	6603.59	6600.56
EMXV	32	18-Jun-2014 15:06:33	18-Jun-2014 15:08:06	6600.56	6538.8
EMXV	30	18-Jun-2014 15:08:06	18-Jun-2014 15:08:10	6538.8	6535.86
EMXV	28	18-Jun-2014 15:08:10	18-Jun-2014 15:08:14	6535.86	6533.37
EMXV	27	18-Jun-2014 15:08:14	18-Jun-2014 15:08:18	6533.37	6530.78
EMXV	24	18-Jun-2014 15:08:18	18-Jun-2014 15:08:23	6530.78	6527.27
EMXV	21	18-Jun-2014 15:08:23	18-Jun-2014 15:08:27	6527.27	6524.59
EMXV	18	18-Jun-2014 15:08:27	18-Jun-2014 15:08:32	6524.59	6521.38
EMXV	15	18-Jun-2014 15:08:32	18-Jun-2014 15:08:35	6521.38	6519.03
EMXV	12	18-Jun-2014 15:08:35	18-Jun-2014 15:08:38	6519.03	6517.02
EMXV	9	18-Jun-2014 15:08:38	18-Jun-2014 15:08:41	6517.02	6514.88
EMXV	6	18-Jun-2014 15:08:41	18-Jun-2014 15:08:51	6514.88	6508.56
EMXV	3	18-Jun-2014 15:08:51	18-Jun-2014 15:09:00	6508.56	6502.32
EMXV	0	18-Jun-2014 15:09:00	18-Jun-2014 15:55:40	6502.32	4637.5
EMXV	3	18-Jun-2014 15:55:40	18-Jun-2014 15:56:04	4637.5	4621.3
EMXV	6	18-Jun-2014 15:56:04	18-Jun-2014 15:58:52	4621.3	4508.62
EMXV	3	18-Jun-2014 15:58:52	18-Jun-2014 15:59:02	4508.62	4502.23
EMXV	0	18-Jun-2014 15:59:02	18-Jun-2014 15:59:30	4502.23	4483.47
EMXV	3	18-Jun-2014 15:59:30	18-Jun-2014 16:03:50	4483.47	4308.74
EMXV	6	18-Jun-2014 16:03:50	18-Jun-2014 16:07:44	4308.74	4149.66
EMXV	9	18-Jun-2014 16:07:44	18-Jun-2014 16:07:52	4149.66	4144.2
EMXV	12	18-Jun-2014 16:07:52	18-Jun-2014 16:08:03	4144.2	4136.81
EMXV	15	18-Jun-2014 16:08:03	18-Jun-2014 16:14:11	4136.81	3896.22
EMXV	18	18-Jun-2014 16:14:11	18-Jun-2014 16:14:25	3896.22	3887.17
EMXV	21	18-Jun-2014 16:14:25	18-Jun-2014 16:14:33	3887.17	3882.19
EMXV	24	18-Jun-2014 16:14:33	18-Jun-2014 16:18:43	3882.19	3718.2

EMXV	27	18-Jun-2014 16:18:43	18-Jun-2014 16:18:54	3718.2	3710.9
EMXV	30	18-Jun-2014 16:18:54	18-Jun-2014 16:19:02	3710.9	3705.82
EMXV	33	18-Jun-2014 16:19:02	18-Jun-2014 16:19:13	3705.82	3698.96
EMXV	36	18-Jun-2014 16:19:13	18-Jun-2014 16:20:00	3698.96	3668.18
EMXV	39	18-Jun-2014 16:20:00	18-Jun-2014 16:20:06	3668.18	3663.93
EMXV	41	18-Jun-2014 16:20:06	18-Jun-2014 16:20:11	3663.93	3660.93
EMXV	44	18-Jun-2014 16:20:11	18-Jun-2014 16:20:16	3660.93	3657.22
EMXV	47	18-Jun-2014 16:20:16	18-Jun-2014 16:20:30	3657.22	3648.08
EMXV	50	18-Jun-2014 16:20:30	18-Jun-2014 16:21:08	3648.08	3623.03
EMXV	53	18-Jun-2014 16:21:08	18-Jun-2014 16:56:50	3623.03	2206.23
EMXV	56	18-Jun-2014 16:56:50	18-Jun-2014 16:56:57	2206.23	2202.02
EMXV	62	18-Jun-2014 16:56:57	18-Jun-2014 16:57:05	2202.02	2196.43
EMXV	65	18-Jun-2014 16:57:05	18-Jun-2014 16:57:11	2196.43	2192.38
EMXV	68	18-Jun-2014 16:57:11	18-Jun-2014 16:57:21	2192.38	2185.86
EMXV	70	18-Jun-2014 16:57:21	18-Jun-2014 16:57:44	2185.86	2170.36
EMXV	75	18-Jun-2014 16:57:44	18-Jun-2014 16:57:57	2170.36	2161.76
EMXV	78	18-Jun-2014 16:57:57	18-Jun-2014 16:58:05	2161.76	2156.5
EMXV	81	18-Jun-2014 16:58:05	18-Jun-2014 16:58:40	2156.5	2132.92
EMXV	85	18-Jun-2014 16:58:40	18-Jun-2014 16:58:46	2132.92	2128.95
EMXV	88	18-Jun-2014 16:58:46	18-Jun-2014 16:58:58	2128.95	2120.97
EMXV	91	18-Jun-2014 16:58:58	18-Jun-2014 16:59:04	2120.97	2117
EMXV	95	18-Jun-2014 16:59:04	18-Jun-2014 17:03:36	2117	1934.41
EMXV	98	18-Jun-2014 17:03:36	18-Jun-2014 17:03:40	1934.41	1931.64
EMXV	100	18-Jun-2014 17:03:40	18-Jun-2014 17:03:45	1931.64	1927.91
EMXV	105	18-Jun-2014 17:03:45	18-Jun-2014 17:51:51	1927.91	12.08
UFWB	133	18-Jun-2014 14:56:53	18-Jun-2014 15:20:57	6856.55	6022.68
UFWB	131.06	18-Jun-2014 15:20:57	18-Jun-2014 15:46:38	6022.68	4997.36
UFWB	126.7	18-Jun-2014 15:46:38	18-Jun-2014 15:46:48	4997.36	4990.68
UFWB	123.22	18-Jun-2014 15:46:48	18-Jun-2014 17:51:51	4990.68	12.08
UFWE	173	18-Jun-2014 14:56:53	18-Jun-2014 15:15:50	6856.55	6227.31
UFWE	185.91	18-Jun-2014 15:15:50	18-Jun-2014 15:20:39	6227.31	6034.72
UFWE	198.98	18-Jun-2014 15:20:39	18-Jun-2014 15:21:00	6034.72	6020.84
UFWE	190.27	18-Jun-2014 15:21:00	18-Jun-2014 17:51:51	6020.84	12.08

All depth are at tool zero.

USI IBC SLG

USIT - Fluid Properties Measurement

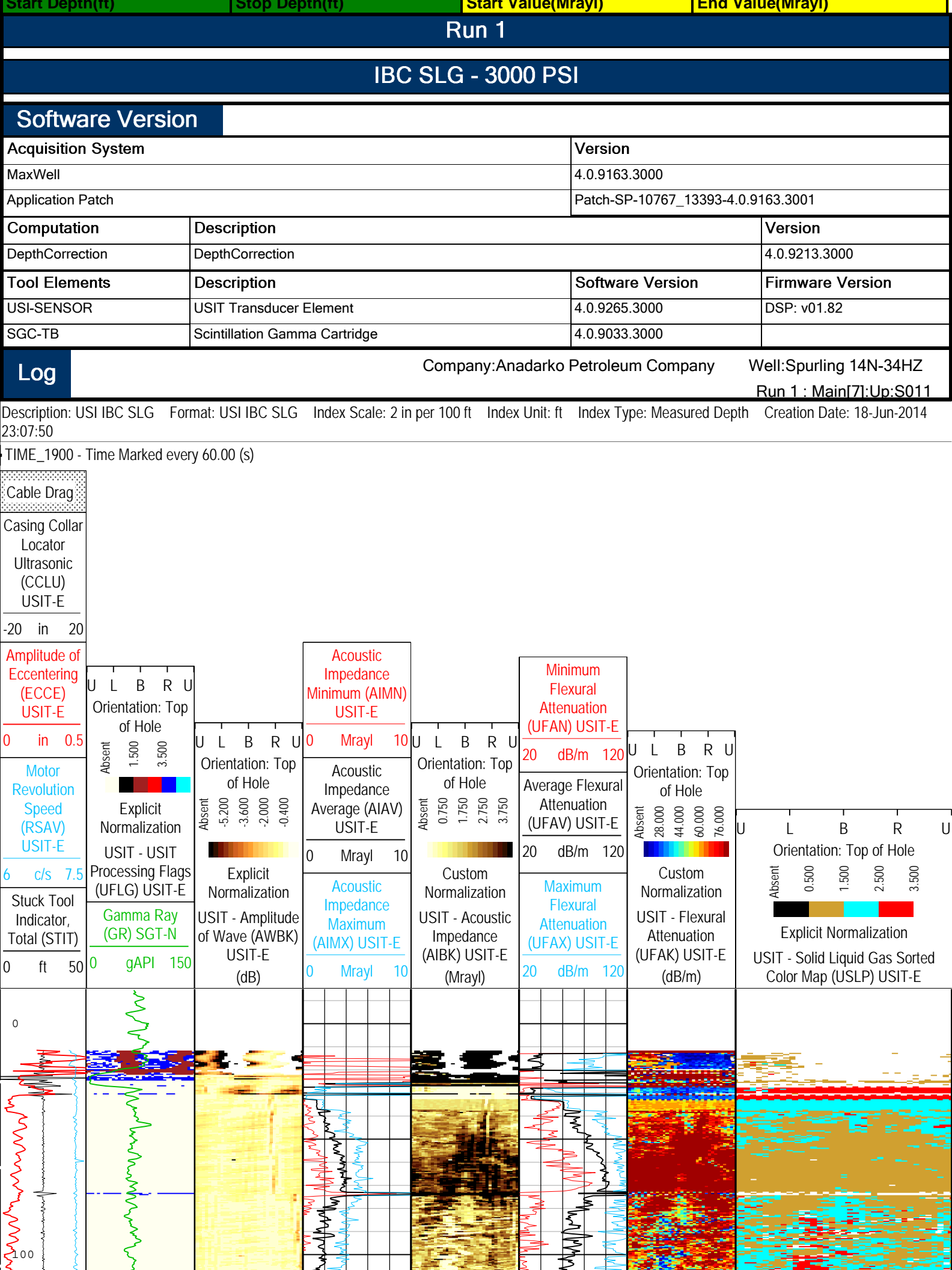
Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Main[7]:Up	6856.55	12.08

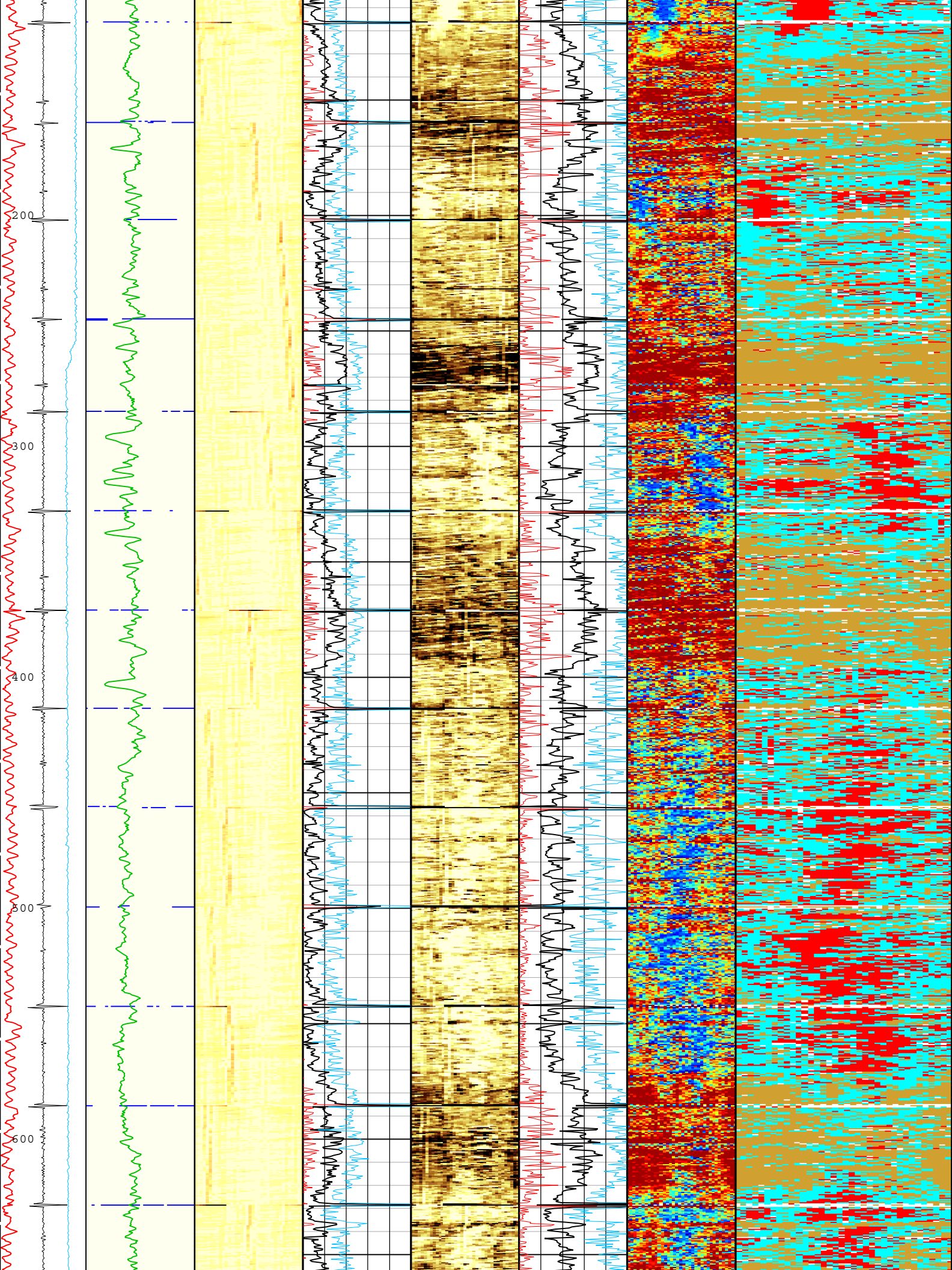
Fluid Velocity = "Automatic".
CFVL equals DFSL channel

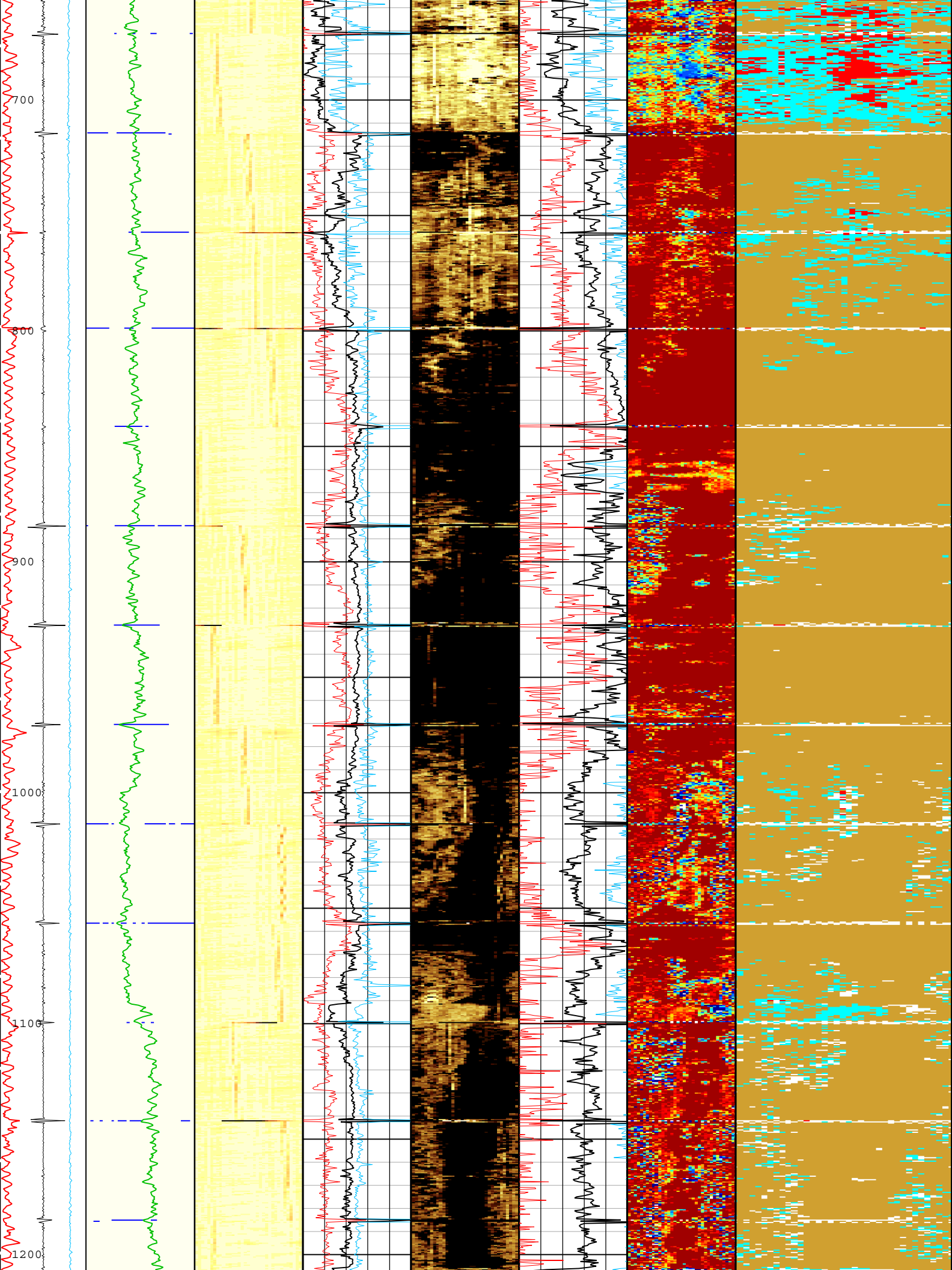
Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)
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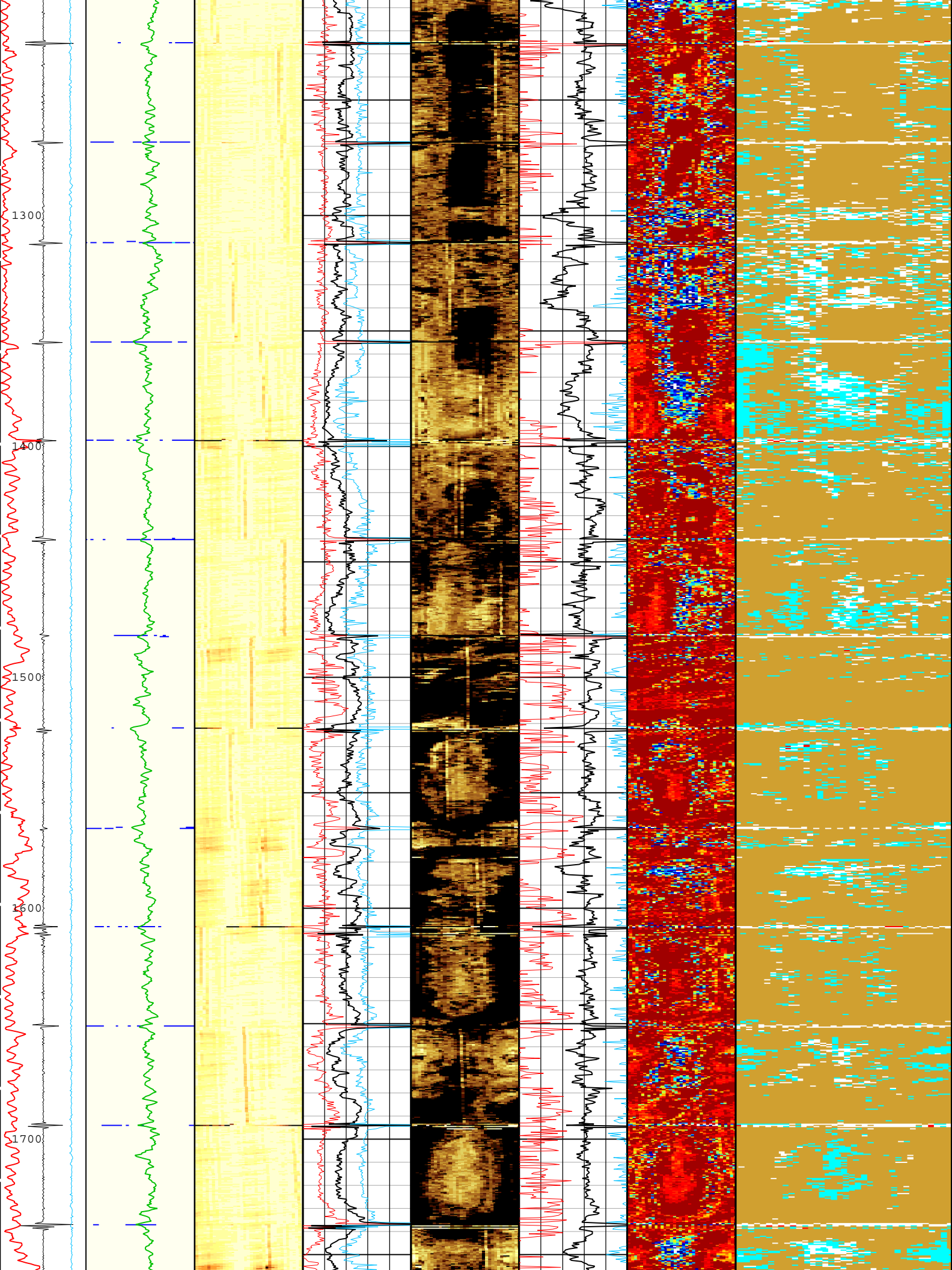
Mud Impedance = "FreePipe Norm."
Free Pipe normalization zone is : 36.45m(119.58ft) to 44.03m(144.46ft)
MUD_N_FRP = 1.07
DFD = 1.01g/cm3(8.40lbm/gal)
CZMD median computed in free pipe normalization interval = 1.60 MRayl

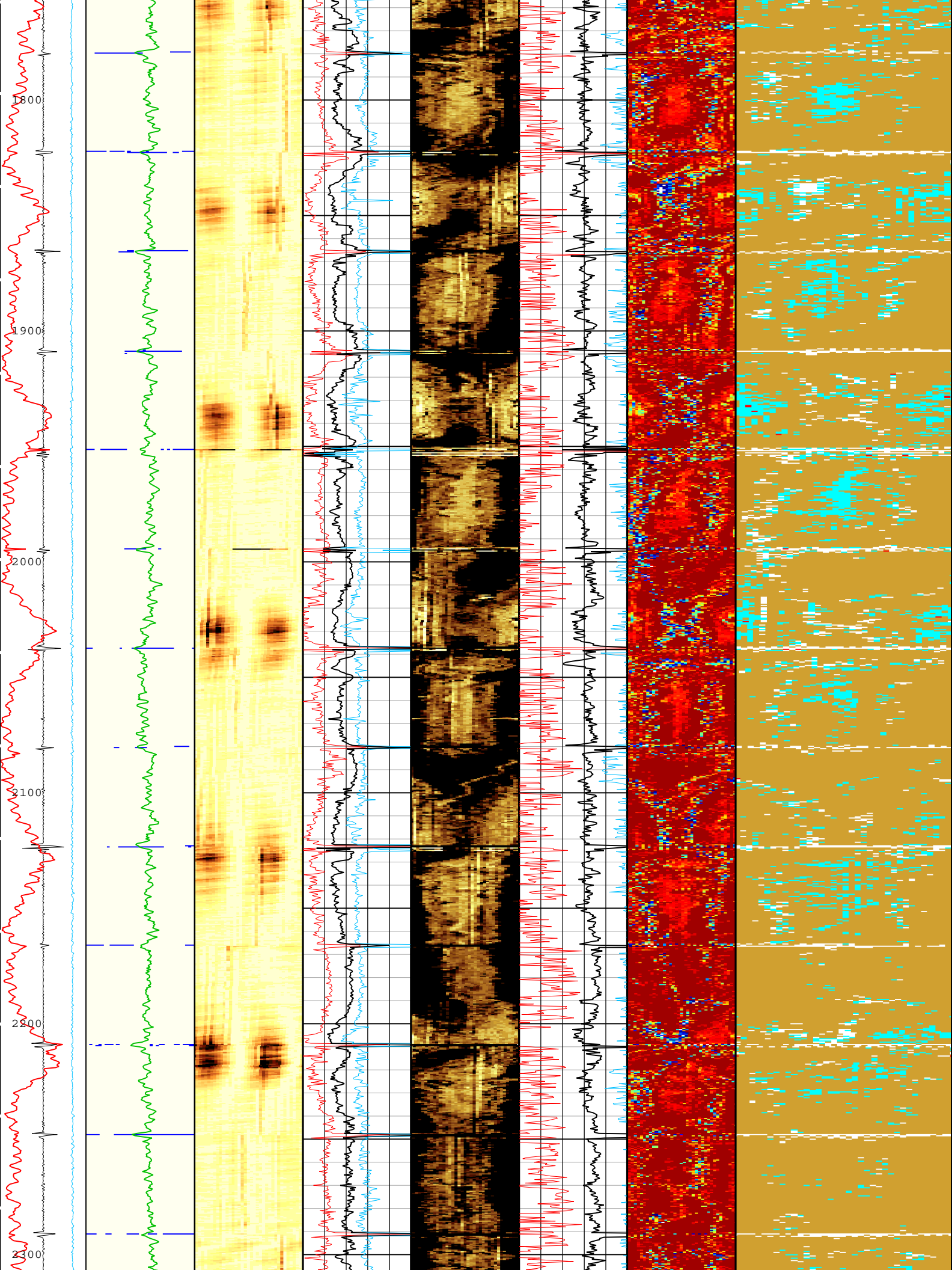
Start Depth(ft)	Stop Depth(ft)	Start Value(MRayl)	End Value(MRayl)
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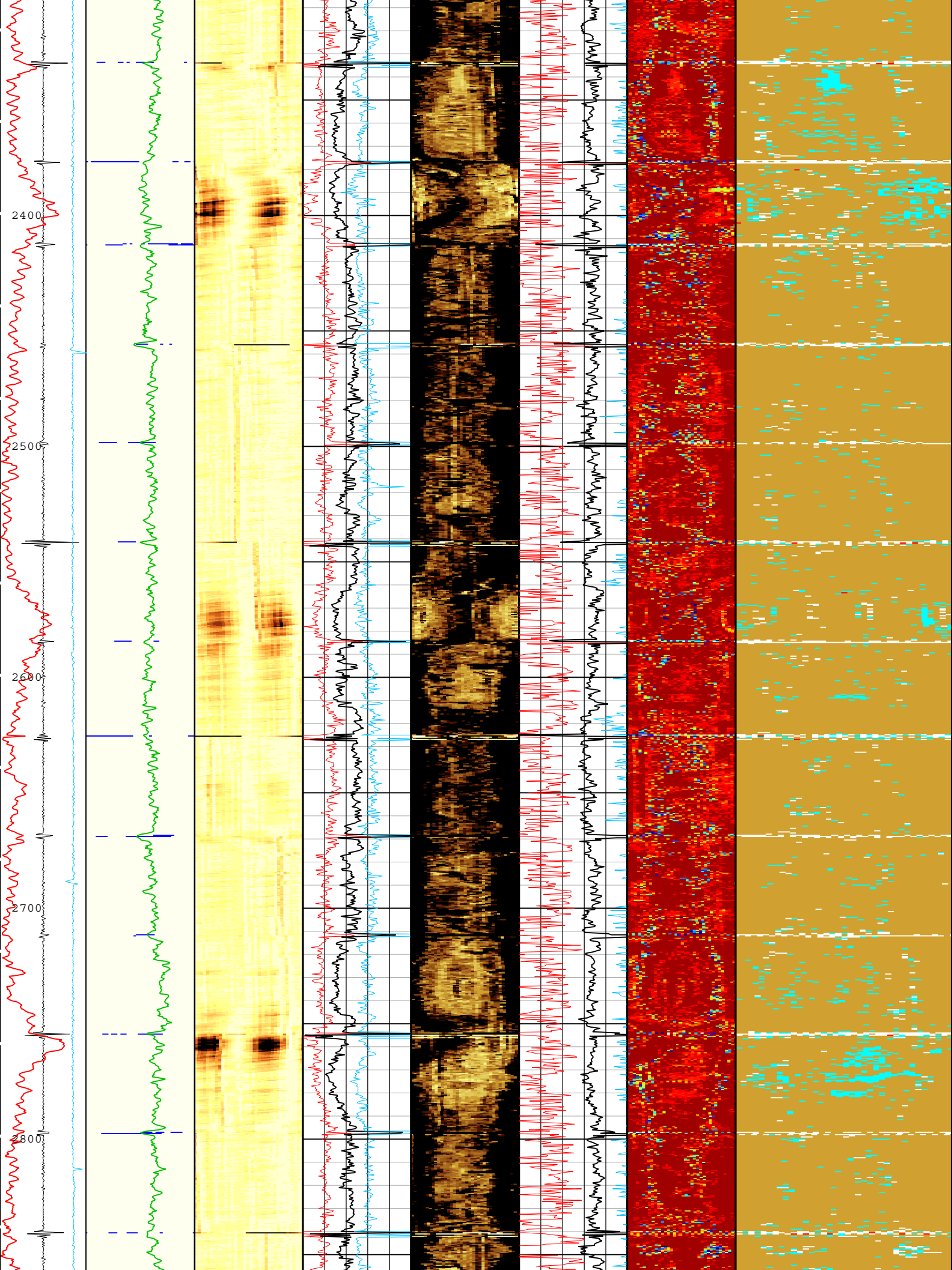


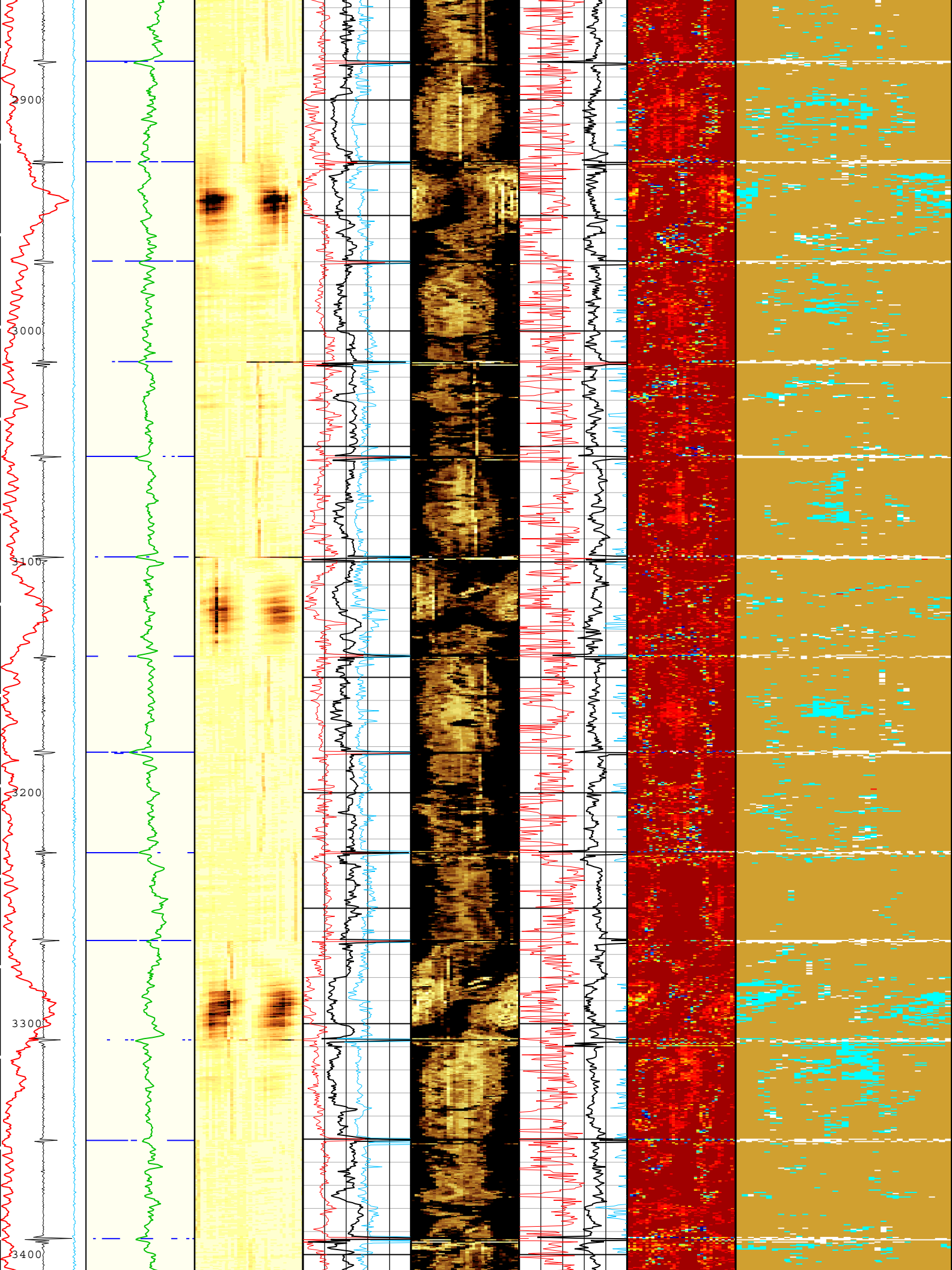


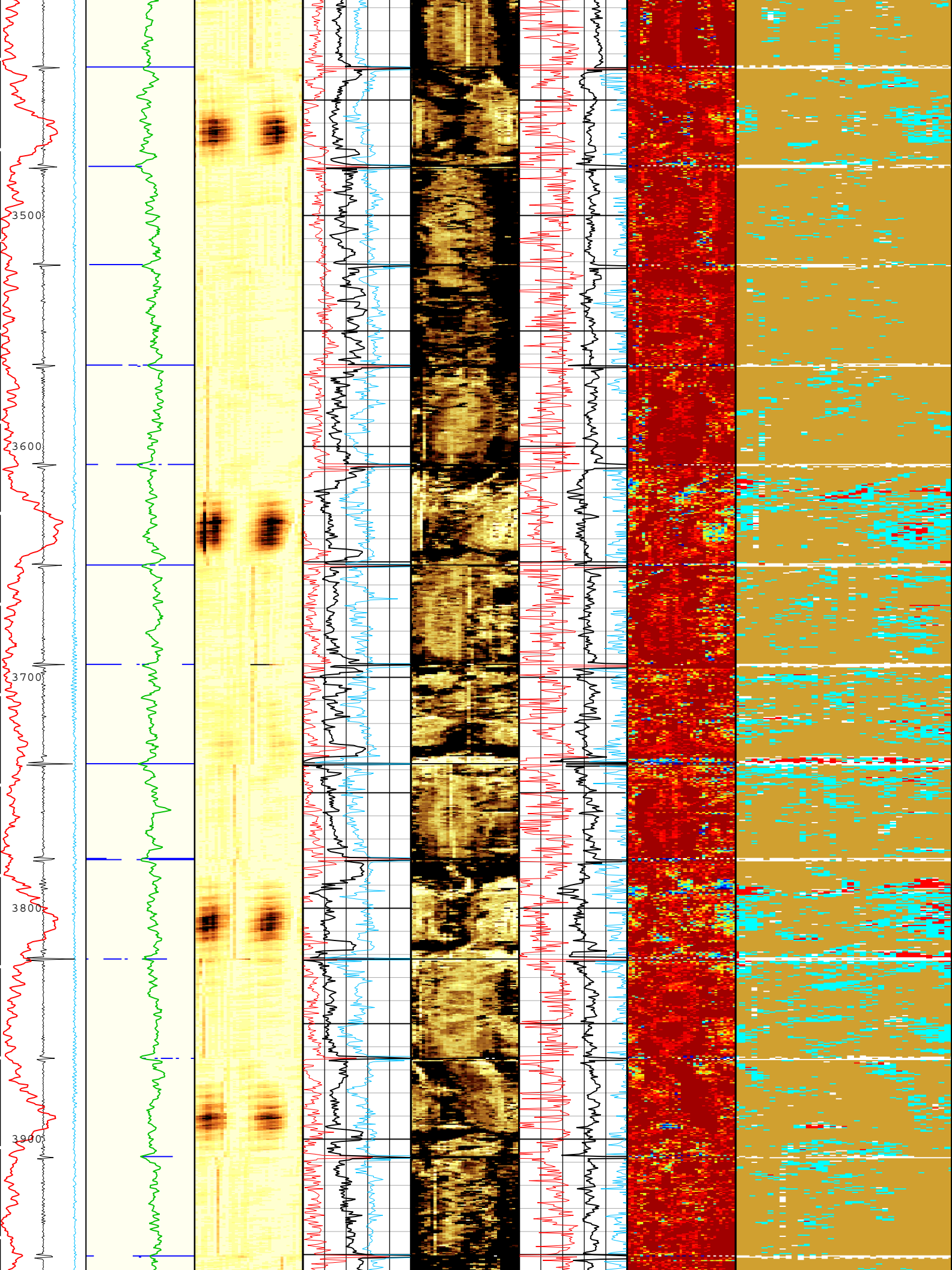


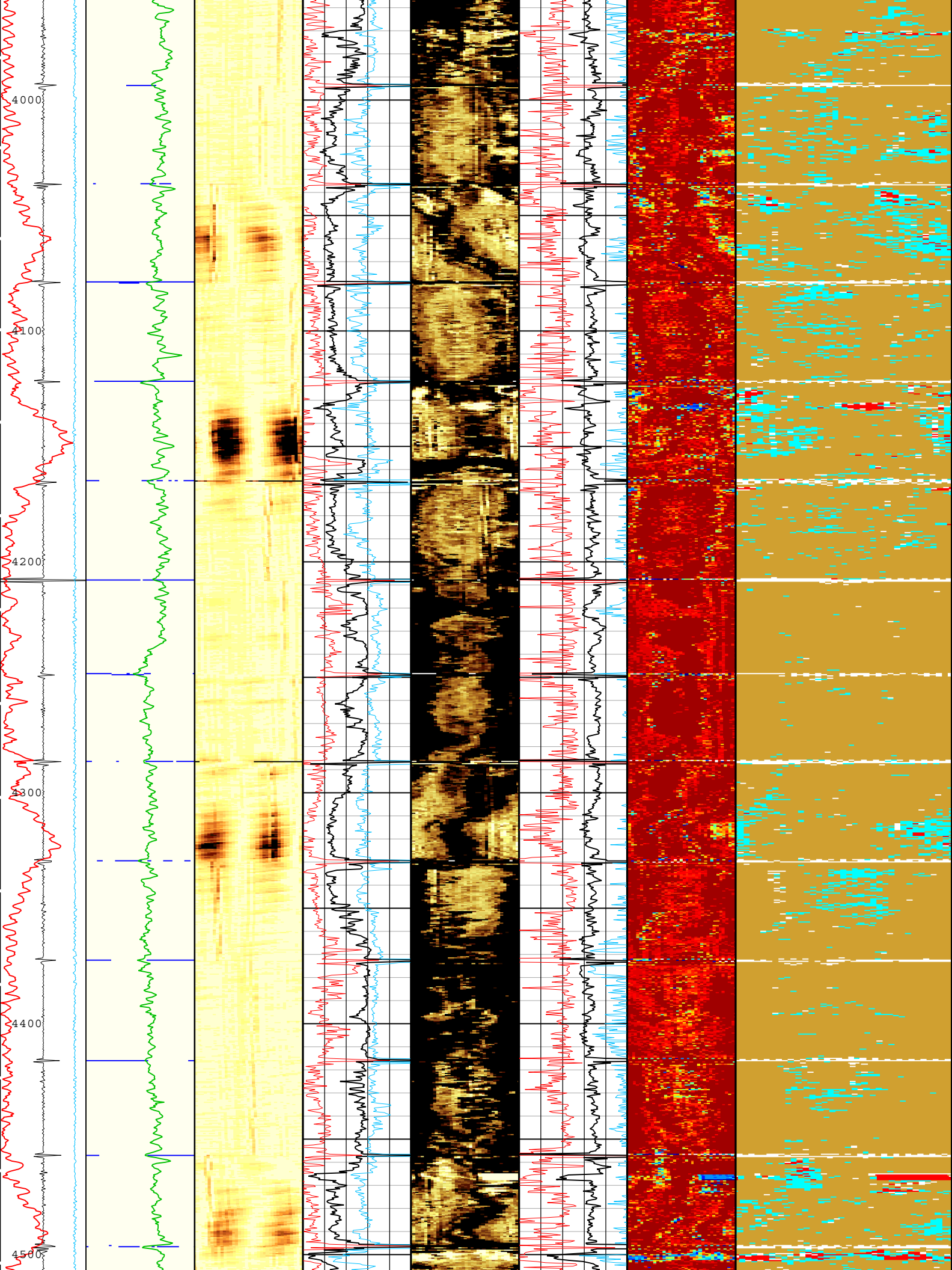


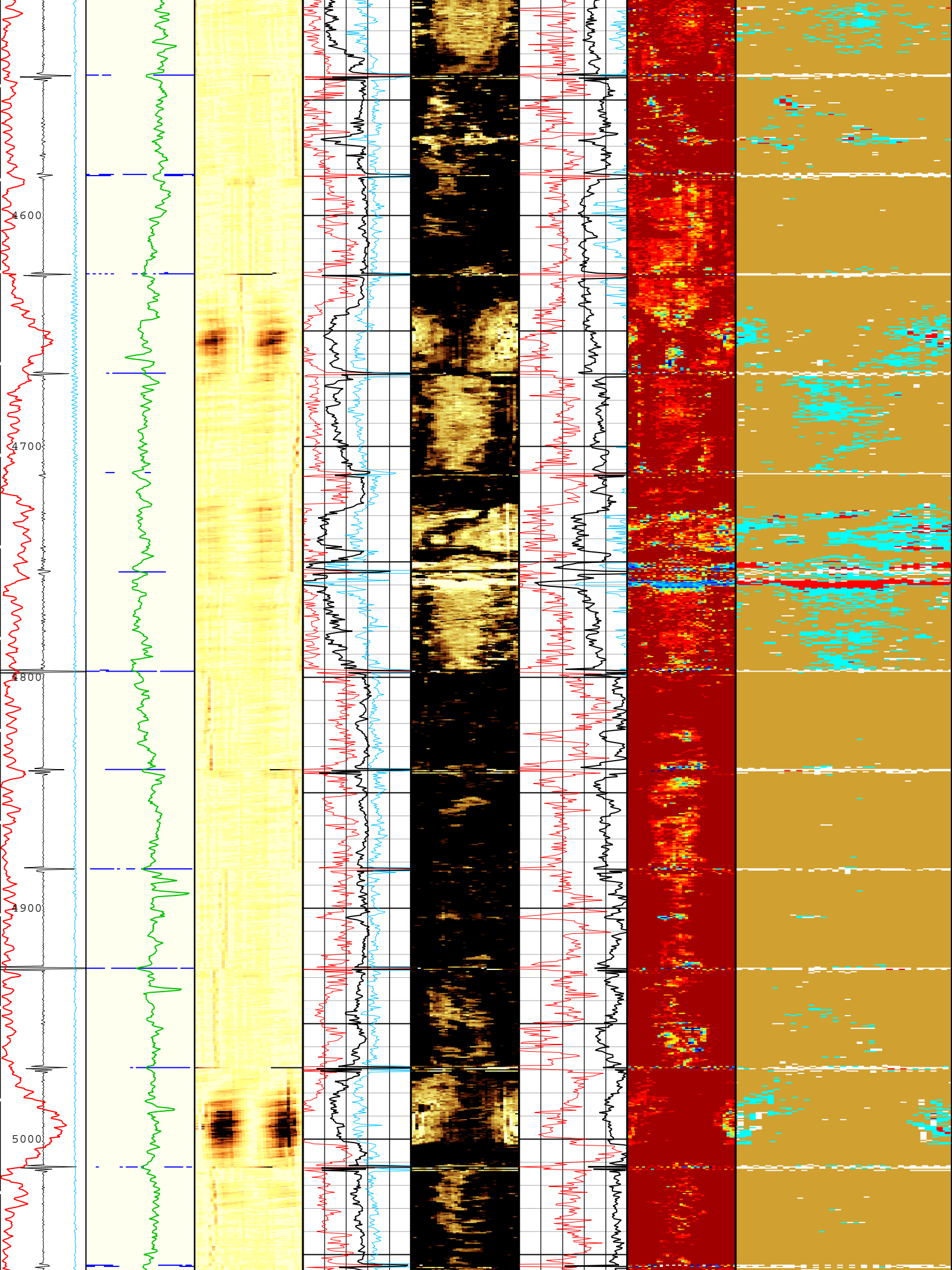


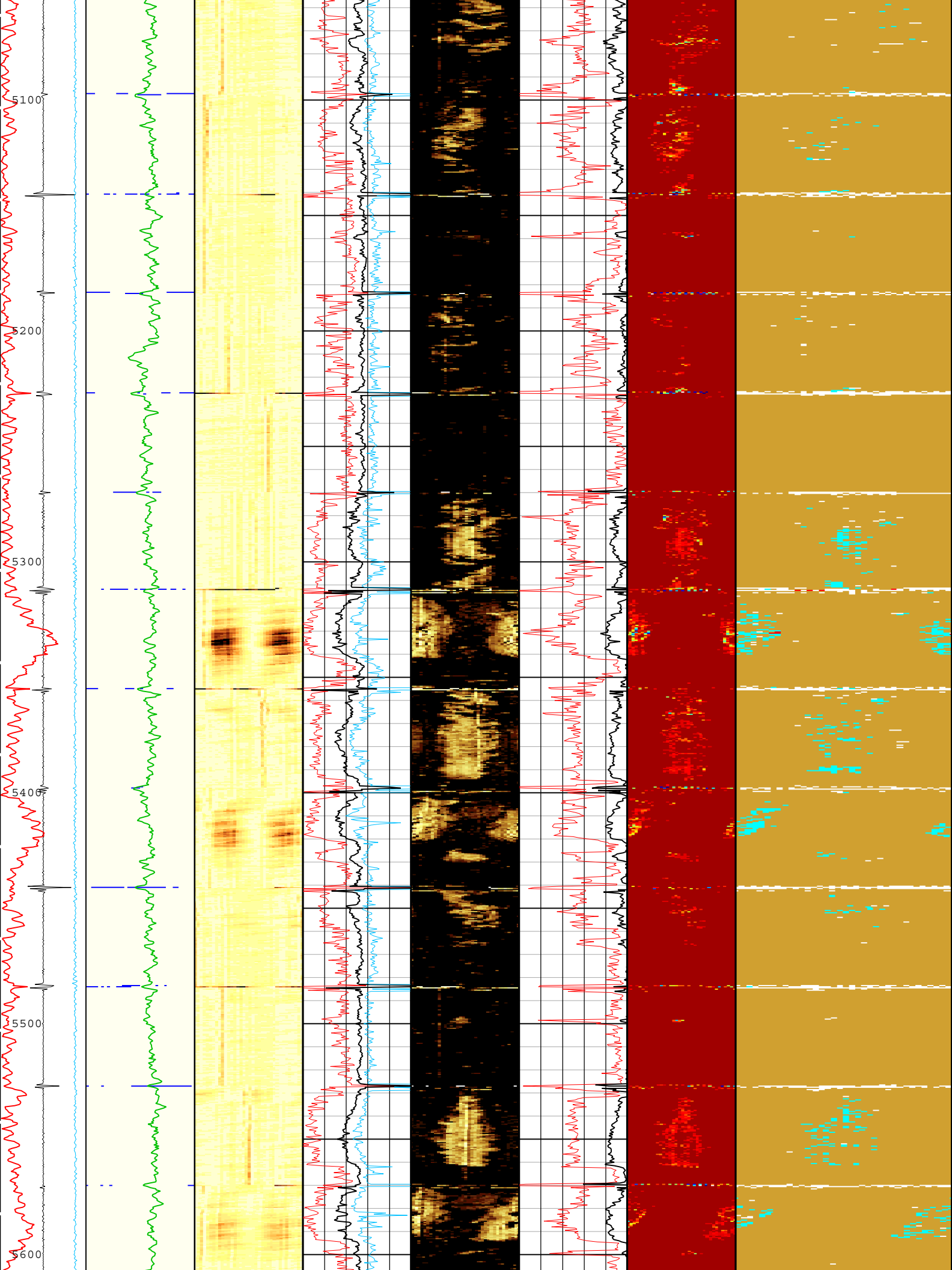


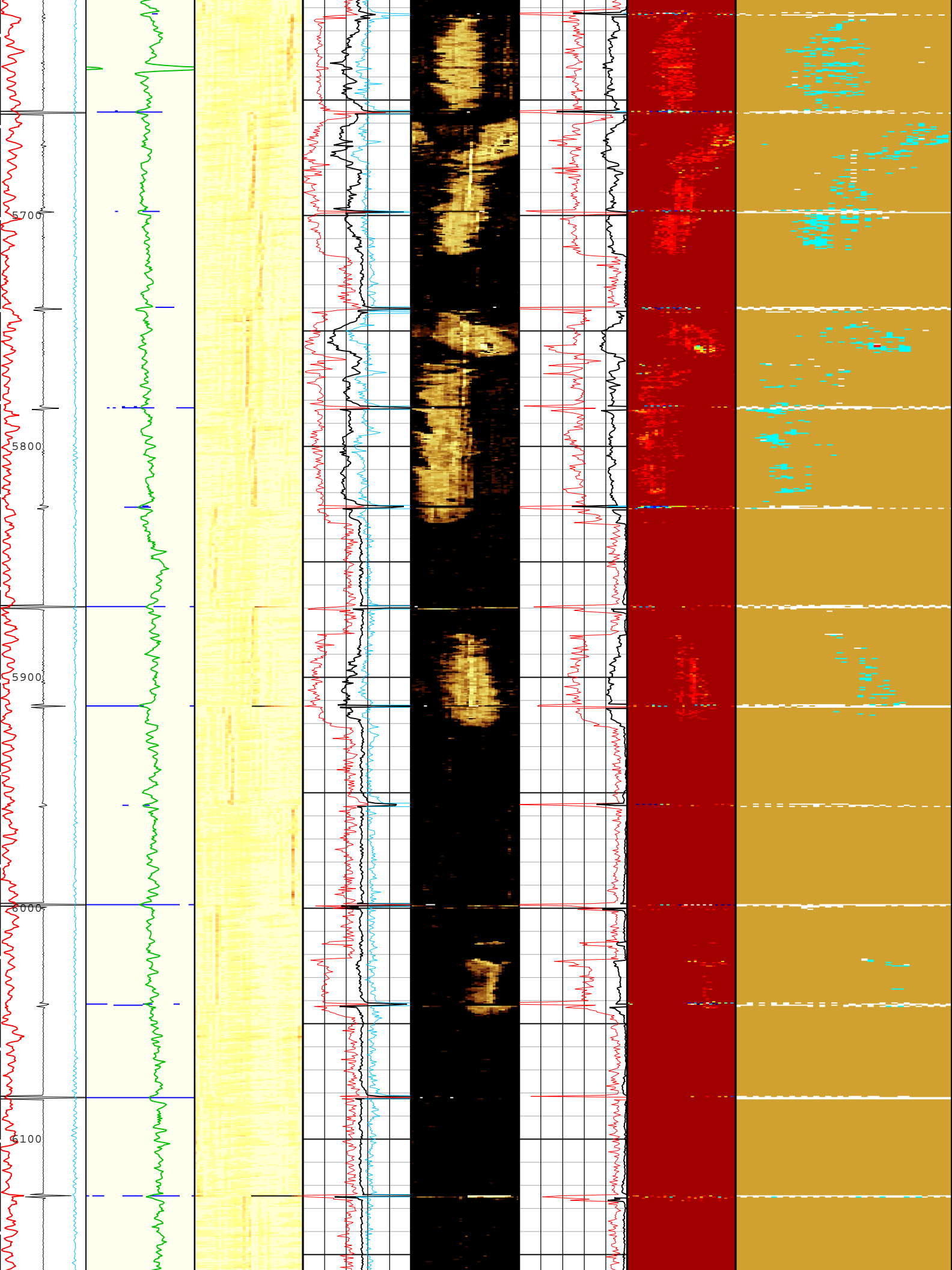


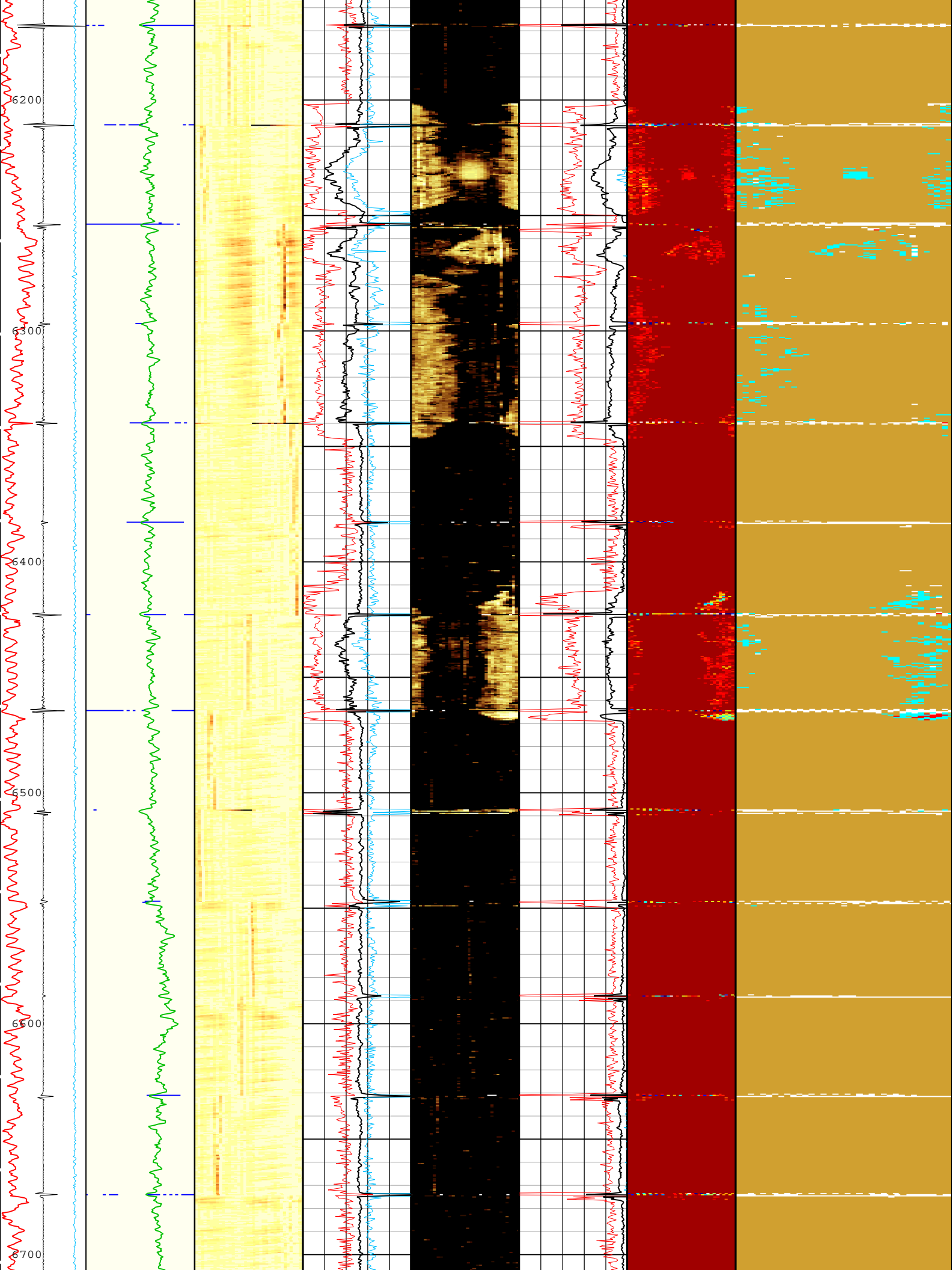


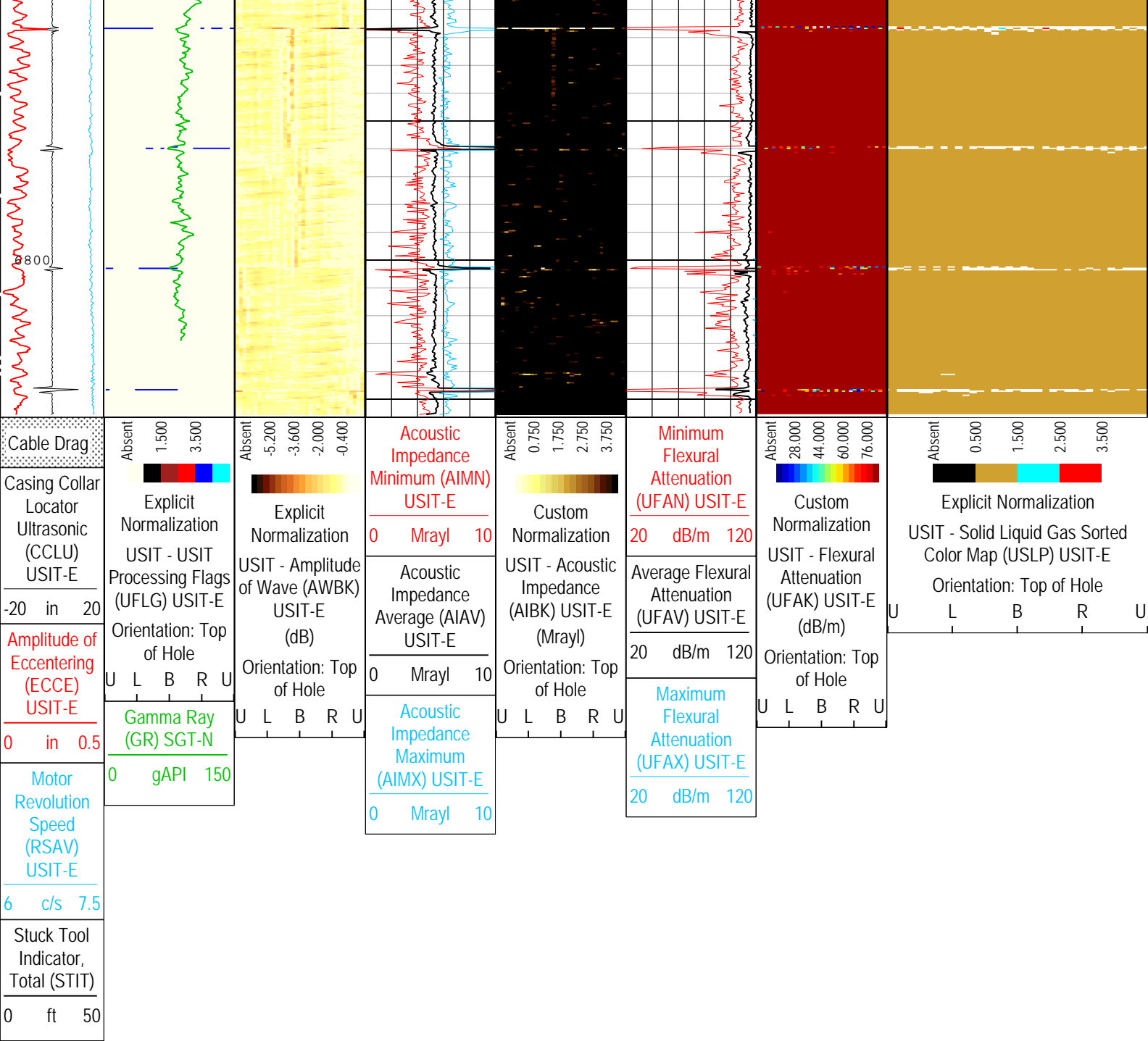












TIME_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Format: USI IBC SLG Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 18-Jun-2014 23:07:50

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
BARI	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	7852	ft
CDEN.1	Cement Density	USIT-E	0	lbm/gal
CDEN.2	Cement Density	SGT-N	16.69	lbm/gal
CMTY	Cement Type	USIT-E	Light Cement	
CTHILGR	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.352	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	

DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	10.01	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS	
GR_MULTIPLIER	Gamma Ray Multiplier	SGT-N	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	7.81	dB/m
IBC_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_BINPROC	ICE Bin Processing Depth Interval	USIT-E	0	ft
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	Depth Zoned	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.07	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
OCDI	Outer Casing Diameter	USIT-E	0	in
OCSH	Outer Casing Shoe	USIT-E	0	ft
OCWE	Outer Casing Weight	USIT-E	0	lbm/ft
RAPID_OPTION	Rapid Access Computation Option	USIT-E	Off	
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
SOGR	Standoff Distance of the Gamma Ray Tool	SGT-N	0	in
TCUB	T^3 Processing Level	USIT-E	Loop	
TD	Total Measured Depth	Borehole	7000	ft
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS	Tool Position: Centered or Eccentered	SGT-N	Eccentered	
UDFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0	Mrayl
UFAO	SIT Flexural Attenuation Offset	USIT-E	1.88	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
UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
UTHDP	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	1.6	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)

	13.5	0	1000
BS	8.75	1000	6856.5
MEAS_WLEN	22.5	0	6856.5

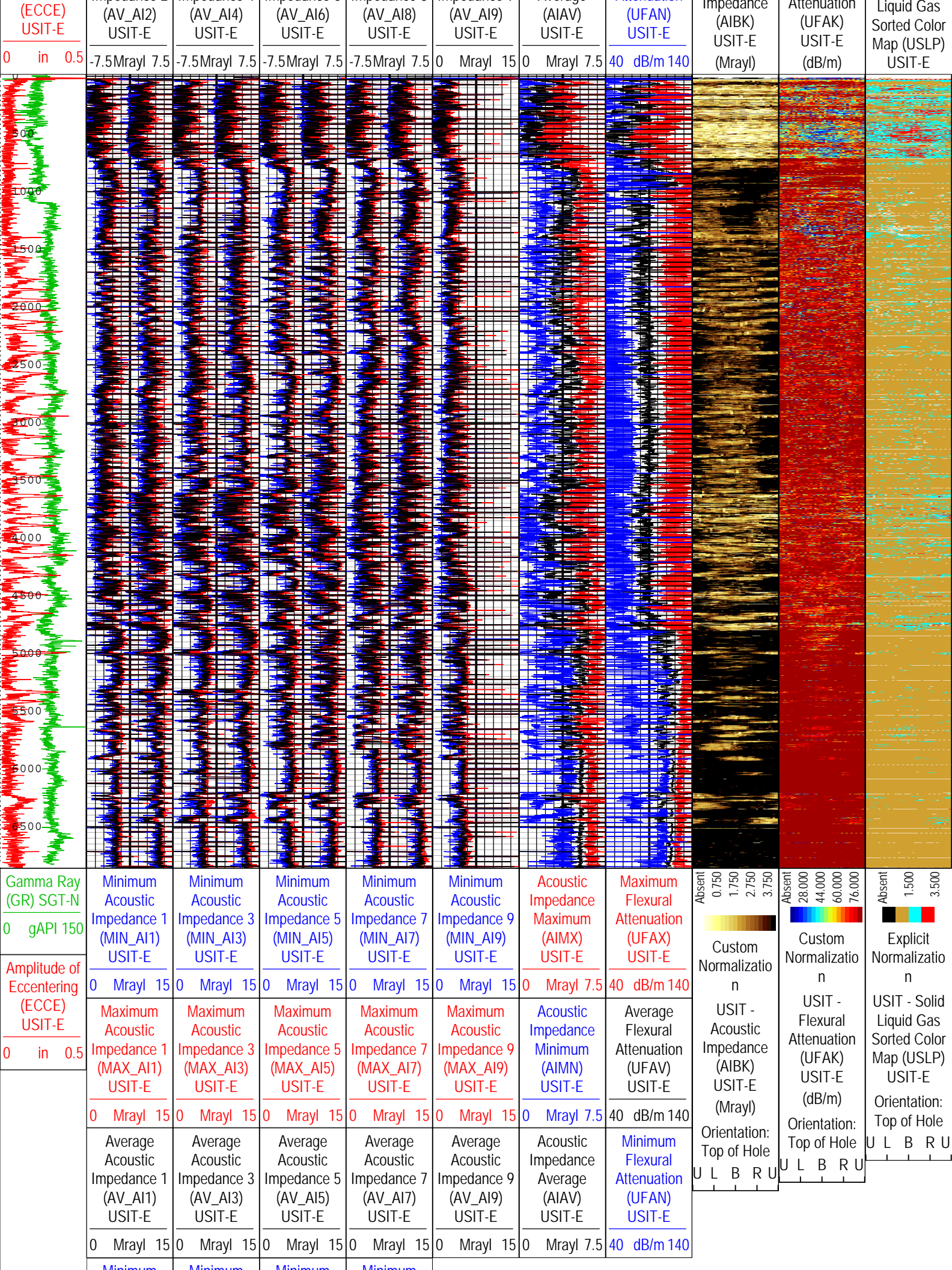
All depth are actual.

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOTF	Distance between Opposite Transducer Faces	USIT-E	2.874	in
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	2700	ft/h
TMUC	Type of Mud	USIT-E	BRI	
UFWB	Far Receiver Window Begin Time	USIT-E	Time Zoned	us
UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
UNWB	Near Receiver Window Begin Time	USIT-E	102	us
UNWE	Near Receiver Window End Time	USIT-E	142	us
USFR	Ultrasonic Sampling Frequency	USIT-E	500000	Hz
USI_UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
USI_UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	6855	ft
USSP	Ultrasonic Service	USIT-E	IBC	
UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	37.61	us
WINE	Window End Time	USIT-E	77.61	us

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	30	18-Jun-2014 14:56:53	18-Jun-2014 15:06:20	6856.55	6609.45
EMXV	25	18-Jun-2014 15:06:20	18-Jun-2014 15:06:29	6609.45	6603.59
EMXV	30	18-Jun-2014 15:06:29	18-Jun-2014 15:06:33	6603.59	6600.56
EMXV	32	18-Jun-2014 15:06:33	18-Jun-2014 15:08:06	6600.56	6538.8
EMXV	30	18-Jun-2014 15:08:06	18-Jun-2014 15:08:10	6538.8	6535.86
EMXV	28	18-Jun-2014 15:08:10	18-Jun-2014 15:08:14	6535.86	6533.37
EMXV	27	18-Jun-2014 15:08:14	18-Jun-2014 15:08:18	6533.37	6530.78
EMXV	24	18-Jun-2014 15:08:18	18-Jun-2014 15:08:23	6530.78	6527.27
EMXV	21	18-Jun-2014 15:08:23	18-Jun-2014 15:08:27	6527.27	6524.59
EMXV	18	18-Jun-2014 15:08:27	18-Jun-2014 15:08:32	6524.59	6521.38
EMXV	15	18-Jun-2014 15:08:32	18-Jun-2014 15:08:35	6521.38	6519.03
EMXV	12	18-Jun-2014 15:08:35	18-Jun-2014 15:08:38	6519.03	6517.02
EMXV	9	18-Jun-2014 15:08:38	18-Jun-2014 15:08:41	6517.02	6514.88
EMXV	6	18-Jun-2014 15:08:41	18-Jun-2014 15:08:51	6514.88	6508.56
EMXV	3	18-Jun-2014 15:08:51	18-Jun-2014 15:09:00	6508.56	6502.32
EMXV	0	18-Jun-2014 15:09:00	18-Jun-2014 15:55:40	6502.32	4637.5

EMXV	3	18-Jun-2014 15:55:40	18-Jun-2014 15:56:04	4637.5	4621.3
EMXV	6	18-Jun-2014 15:56:04	18-Jun-2014 15:58:52	4621.3	4508.62
EMXV	3	18-Jun-2014 15:58:52	18-Jun-2014 15:59:02	4508.62	4502.23
EMXV	0	18-Jun-2014 15:59:02	18-Jun-2014 15:59:30	4502.23	4483.47
EMXV	3	18-Jun-2014 15:59:30	18-Jun-2014 16:03:50	4483.47	4308.74
EMXV	6	18-Jun-2014 16:03:50	18-Jun-2014 16:07:44	4308.74	4149.66
EMXV	9	18-Jun-2014 16:07:44	18-Jun-2014 16:07:52	4149.66	4144.2
EMXV	12	18-Jun-2014 16:07:52	18-Jun-2014 16:08:03	4144.2	4136.81
EMXV	15	18-Jun-2014 16:08:03	18-Jun-2014 16:14:11	4136.81	3896.22
EMXV	18	18-Jun-2014 16:14:11	18-Jun-2014 16:14:25	3896.22	3887.17
EMXV	21	18-Jun-2014 16:14:25	18-Jun-2014 16:14:33	3887.17	3882.19
EMXV	24	18-Jun-2014 16:14:33	18-Jun-2014 16:18:43	3882.19	3718.2
EMXV	27	18-Jun-2014 16:18:43	18-Jun-2014 16:18:54	3718.2	3710.9
EMXV	30	18-Jun-2014 16:18:54	18-Jun-2014 16:19:02	3710.9	3705.82
EMXV	33	18-Jun-2014 16:19:02	18-Jun-2014 16:19:13	3705.82	3698.96
EMXV	36	18-Jun-2014 16:19:13	18-Jun-2014 16:20:00	3698.96	3668.18
EMXV	39	18-Jun-2014 16:20:00	18-Jun-2014 16:20:06	3668.18	3663.93
EMXV	41	18-Jun-2014 16:20:06	18-Jun-2014 16:20:11	3663.93	3660.93
EMXV	44	18-Jun-2014 16:20:11	18-Jun-2014 16:20:16	3660.93	3657.22
EMXV	47	18-Jun-2014 16:20:16	18-Jun-2014 16:20:30	3657.22	3648.08
EMXV	50	18-Jun-2014 16:20:30	18-Jun-2014 16:21:08	3648.08	3623.03
EMXV	53	18-Jun-2014 16:21:08	18-Jun-2014 16:56:50	3623.03	2206.23
EMXV	56	18-Jun-2014 16:56:50	18-Jun-2014 16:56:57	2206.23	2202.02
EMXV	62	18-Jun-2014 16:56:57	18-Jun-2014 16:57:05	2202.02	2196.43
EMXV	65	18-Jun-2014 16:57:05	18-Jun-2014 16:57:11	2196.43	2192.38
EMXV	68	18-Jun-2014 16:57:11	18-Jun-2014 16:57:21	2192.38	2185.86
EMXV	70	18-Jun-2014 16:57:21	18-Jun-2014 16:57:44	2185.86	2170.36
EMXV	75	18-Jun-2014 16:57:44	18-Jun-2014 16:57:57	2170.36	2161.76
EMXV	78	18-Jun-2014 16:57:57	18-Jun-2014 16:58:05	2161.76	2156.5
EMXV	81	18-Jun-2014 16:58:05	18-Jun-2014 16:58:40	2156.5	2132.92
EMXV	85	18-Jun-2014 16:58:40	18-Jun-2014 16:58:46	2132.92	2128.95
EMXV	88	18-Jun-2014 16:58:46	18-Jun-2014 16:58:58	2128.95	2120.97
EMXV	91	18-Jun-2014 16:58:58	18-Jun-2014 16:59:04	2120.97	2117
EMXV	95	18-Jun-2014 16:59:04	18-Jun-2014 17:03:36	2117	1934.41
EMXV	98	18-Jun-2014 17:03:36	18-Jun-2014 17:03:40	1934.41	1931.64
EMXV	100	18-Jun-2014 17:03:40	18-Jun-2014 17:03:45	1931.64	1927.91
EMXV	105	18-Jun-2014 17:03:45	18-Jun-2014 17:51:51	1927.91	12.08
UFWB	133	18-Jun-2014 14:56:53	18-Jun-2014 15:20:57	6856.55	6022.68
UFWB	131.06	18-Jun-2014 15:20:57	18-Jun-2014 15:46:38	6022.68	4997.36
UFWB	126.7	18-Jun-2014 15:46:38	18-Jun-2014 15:46:48	4997.36	4990.68
UFWB	123.22	18-Jun-2014 15:46:48	18-Jun-2014 17:51:51	4990.68	12.08
UFWE	173	18-Jun-2014 14:56:53	18-Jun-2014 15:15:50	6856.55	6227.31
UFWE	185.91	18-Jun-2014 15:15:50	18-Jun-2014 15:20:39	6227.31	6034.72
UFWE	198.98	18-Jun-2014 15:20:39	18-Jun-2014 15:21:00	6034.72	6020.84

[illegible]



Minimum Acoustic Impedance 2 (MIN_AI2) USIT-E	Minimum Acoustic Impedance 4 (MIN_AI4) USIT-E	Minimum Acoustic Impedance 6 (MIN_AI6) USIT-E	Minimum Acoustic Impedance 8 (MIN_AI8) USIT-E
-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5
Maximum Acoustic Impedance 2 (MAX_AI2) USIT-E	Maximum Acoustic Impedance 4 (MAX_AI4) USIT-E	Maximum Acoustic Impedance 6 (MAX_AI6) USIT-E	Maximum Acoustic Impedance 8 (MAX_AI8) USIT-E
-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5
Average Acoustic Impedance 2 (AV_AI2) USIT-E	Average Acoustic Impedance 4 (AV_AI4) USIT-E	Average Acoustic Impedance 6 (AV_AI6) USIT-E	Average Acoustic Impedance 8 (AV_AI8) USIT-E
-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5

TIME_1900 - Time Marked every 60.00 (s)

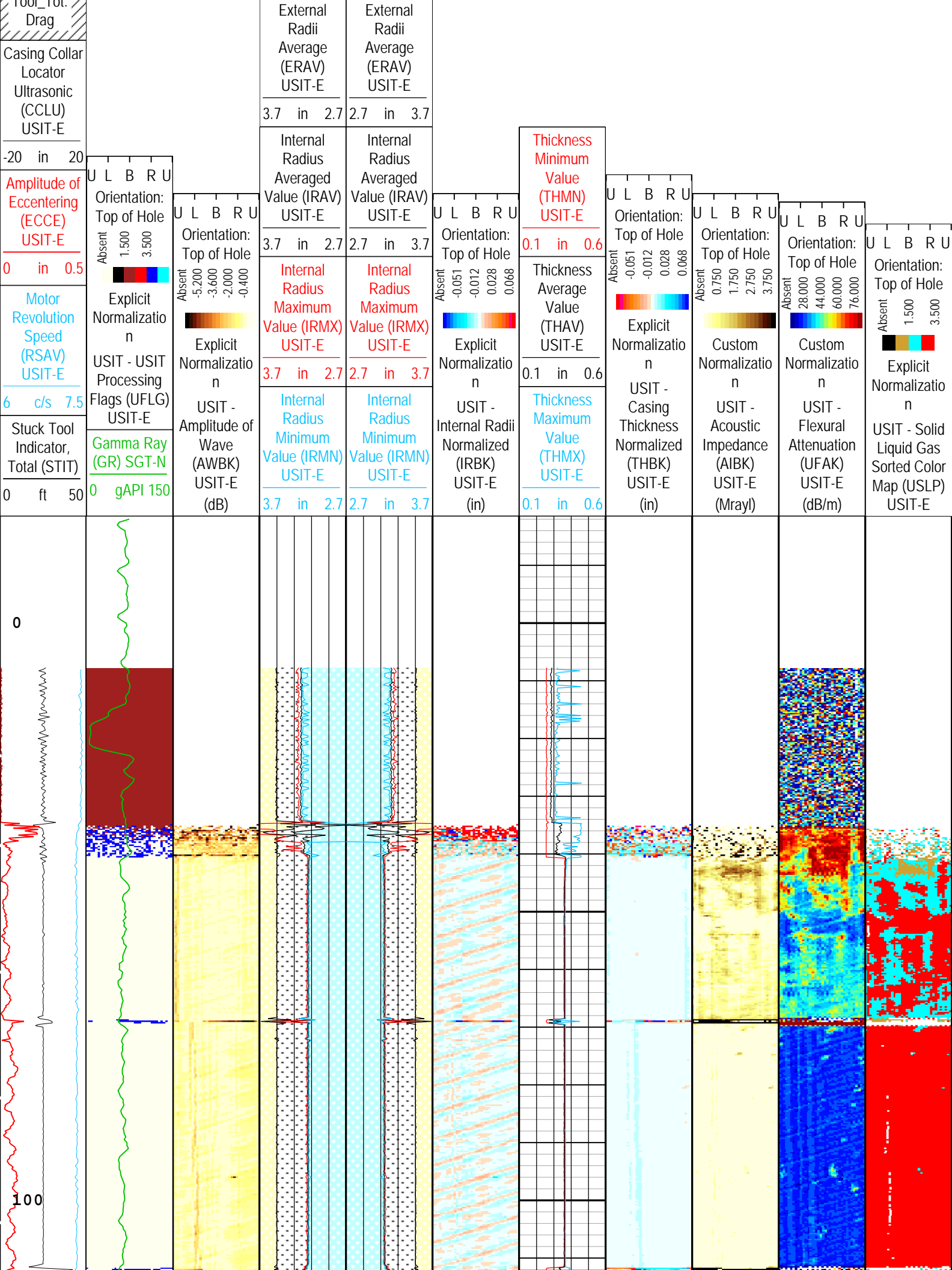
Description: USI Goodwin Format: USI Goodwin Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 18-Jun-2014 23:07:56

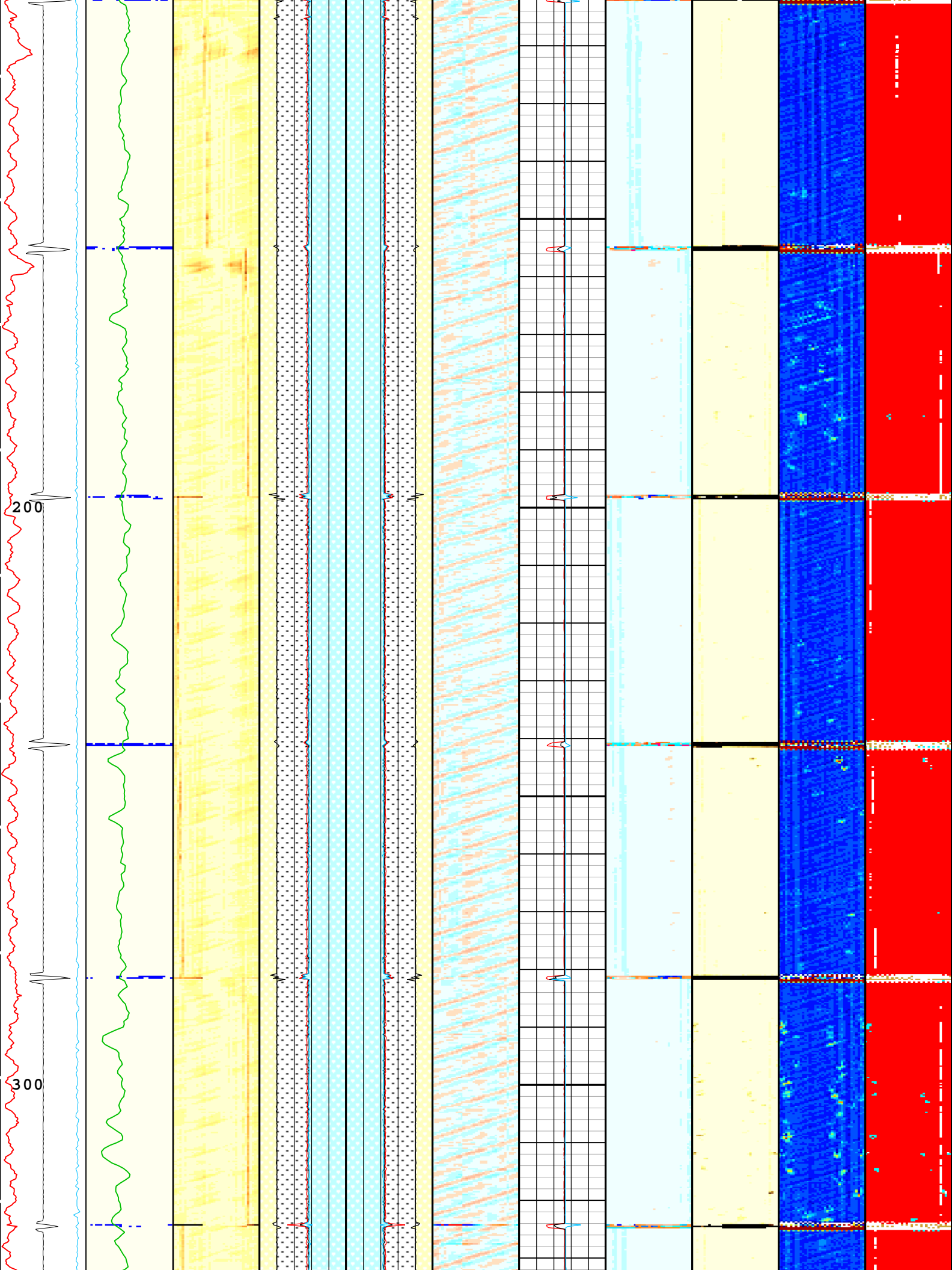
USI IBC SLG Composite			
USIT - Fluid Properties Measurement			
Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Main[6]:Up	6856.94	8.38
Fluid Velocity = "Automatic". CFVL equals DFSL channel			
Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)
Mud Impedance = "FreePipe Norm". Free Pipe normalization zone is : 36.45m(119.58ft) to 44.03m(144.46ft) MUD_N_FRP = 1.07 DFD = 1.01g/cm3(8.40lbm/gal) CZMD median computed in free pipe normalization interval = 1.60 MRayl			
Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
Run 1			
IBC SLG Composite - 0 PSI			
Software Version			
Acquisition System		Version	
MaxWell		4.0.9163.3000	
Application Patch		Patch-SP-10767_13393-4.0.9163.3001	
Computation	Description	Version	
DepthCorrection	DepthCorrection	4.0.9213.3000	
Tool Elements	Description	Software Version	Firmware Version
USI-SENSOR	USIT Transducer Element	4.0.9265.3000	DSP: v01.82
SGC-TB	Scintillation Gamma Cartridge	4.0.9033.3000	
Log	Company:Anadarko Petroleum Company Well:Spurling 14N-34HZ Run 1 : Main[6]:Up:S011		

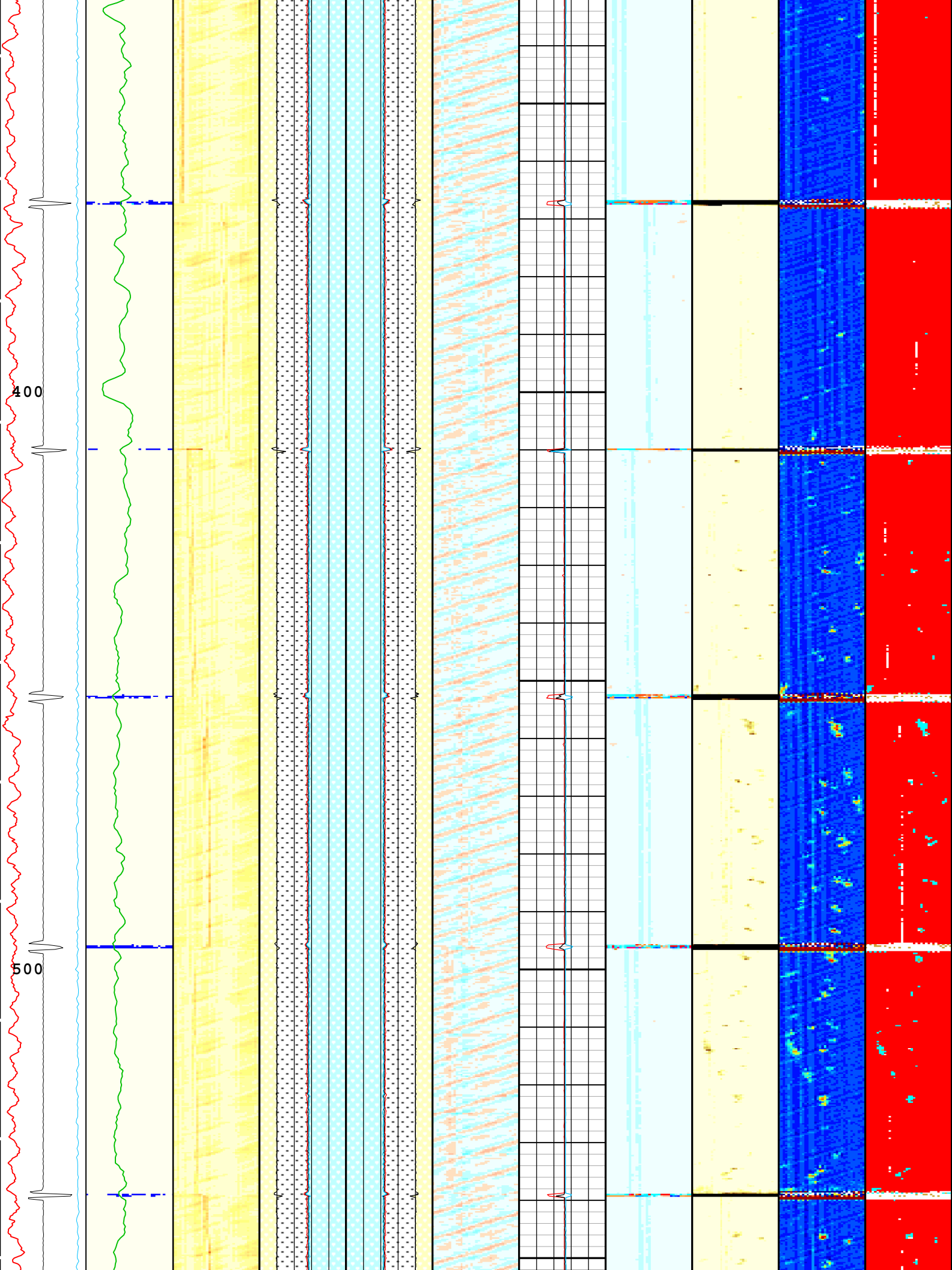
Description: USI IBC SLG Composite Format: USI IBC SLG Composite Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 18-Jun-2014 23:08:02

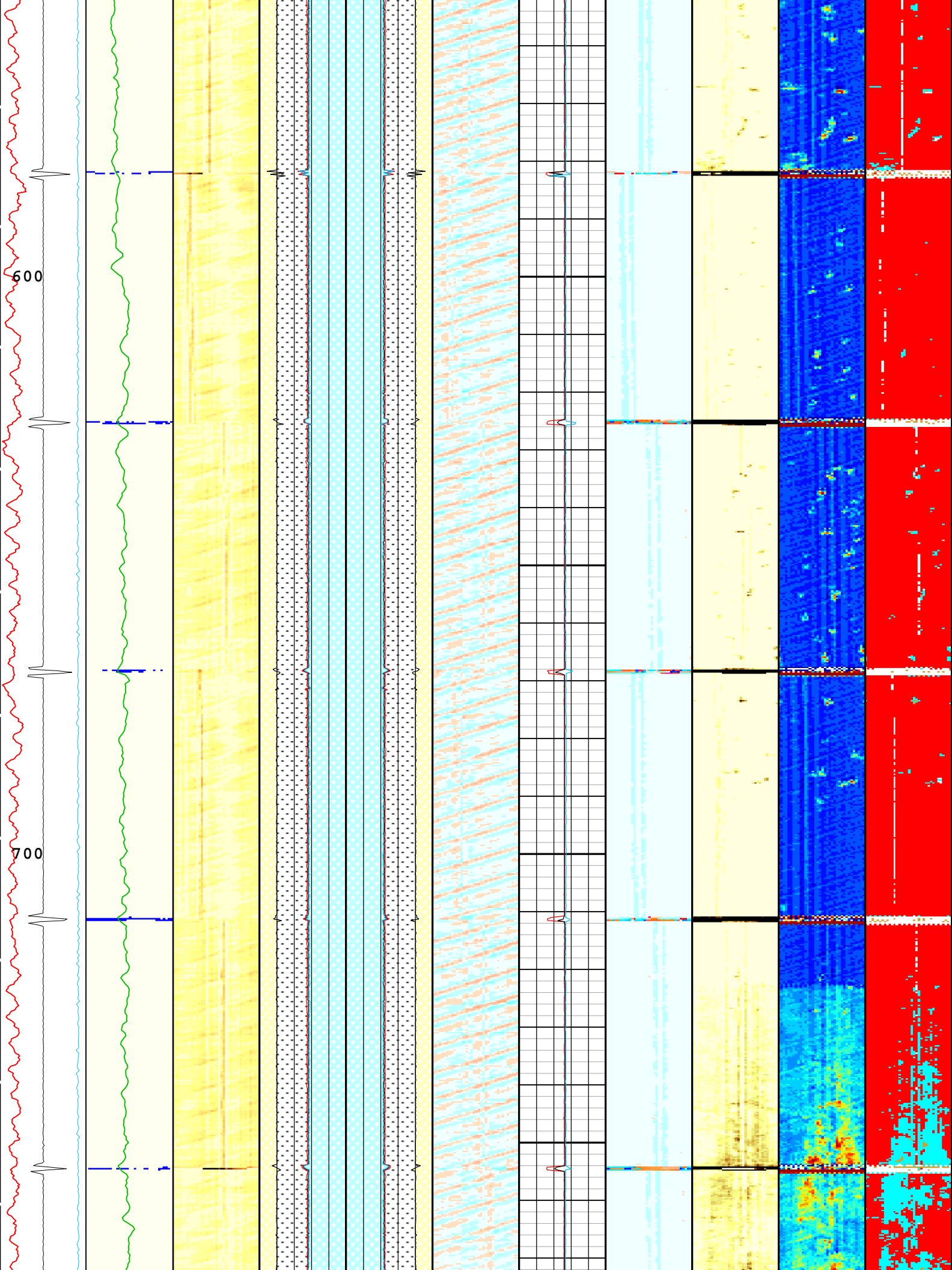
TIME_1900 - Time Marked every 60.00 (s)

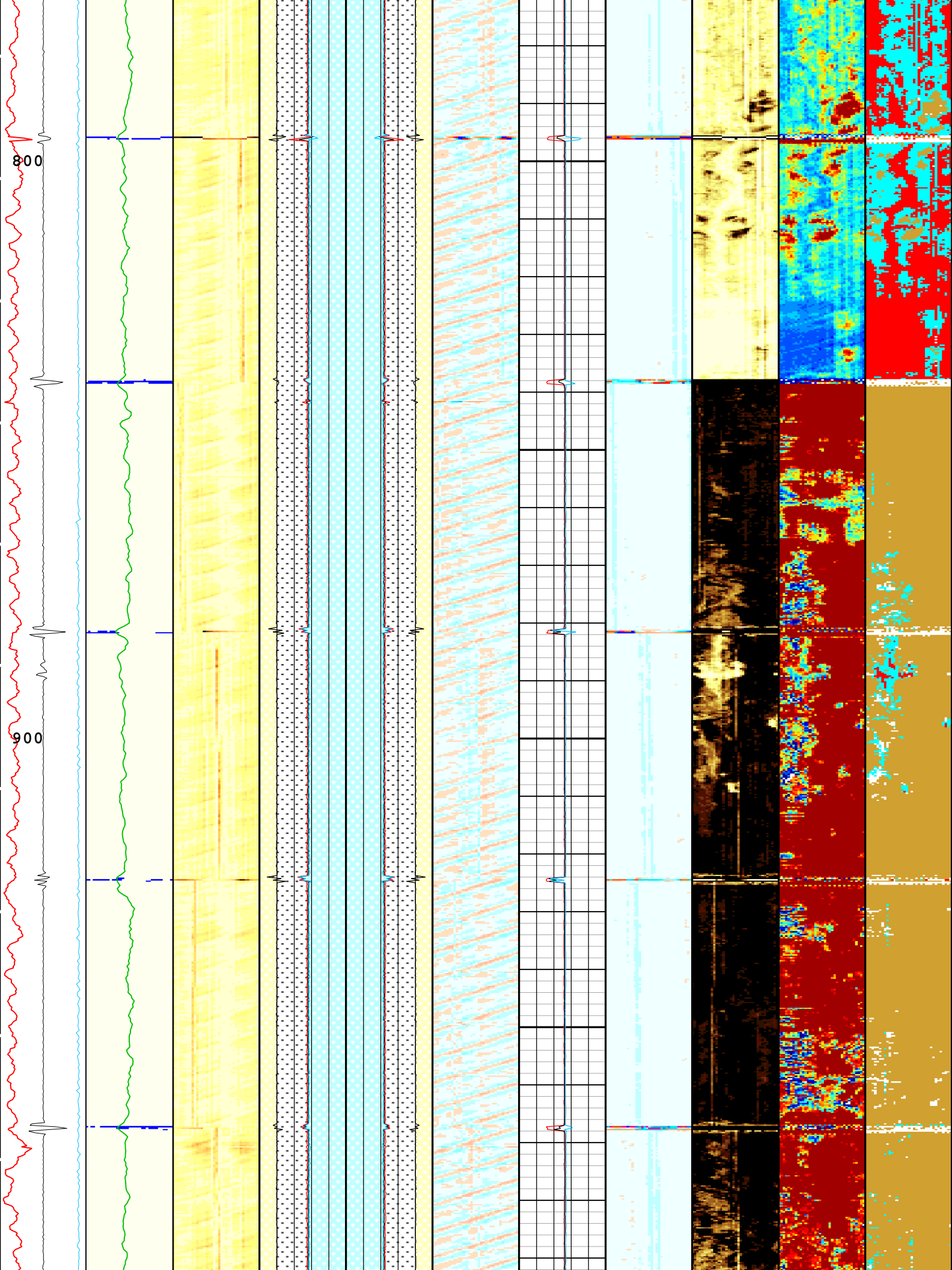
Cable Drag
Tool Tot

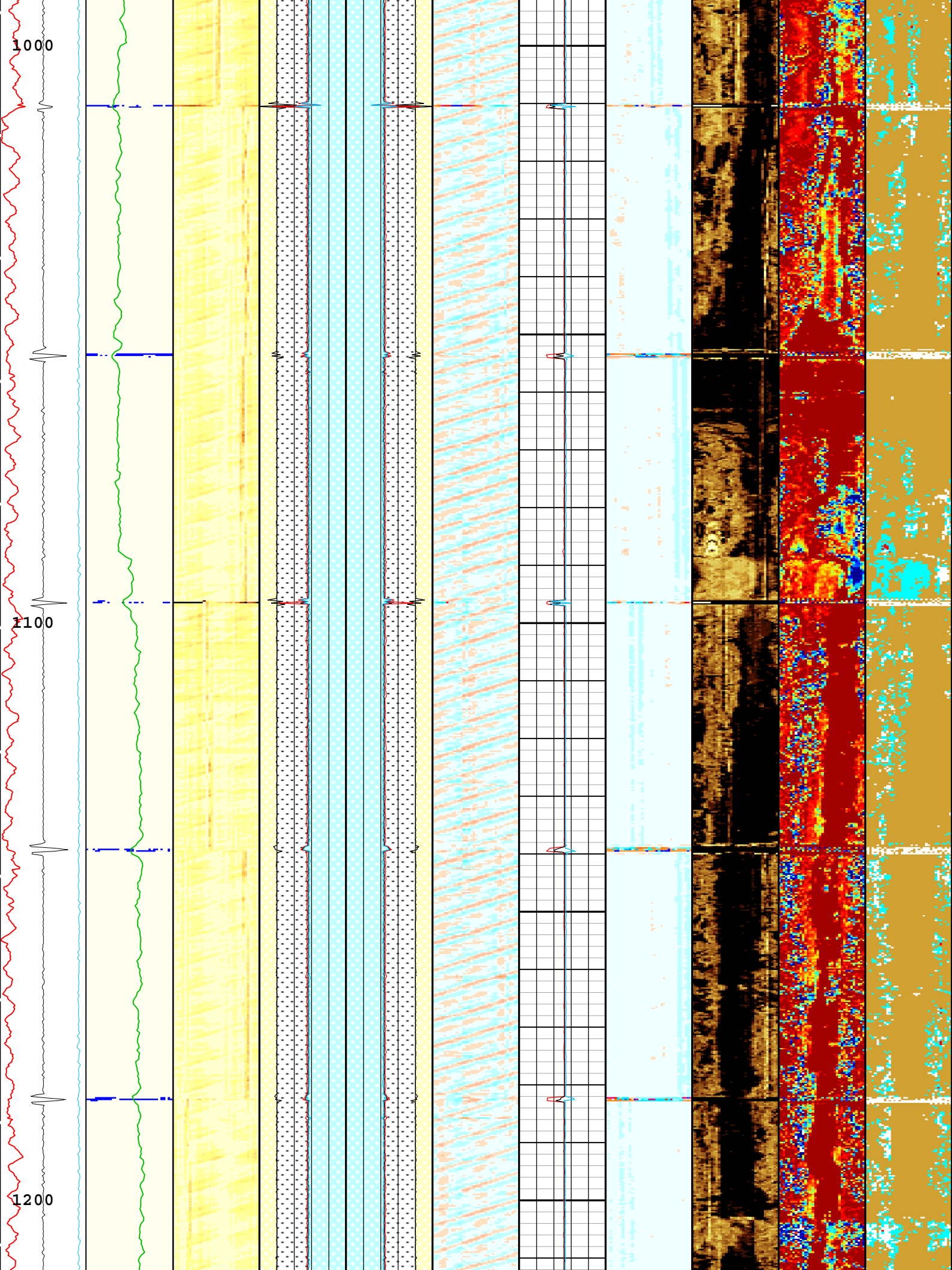


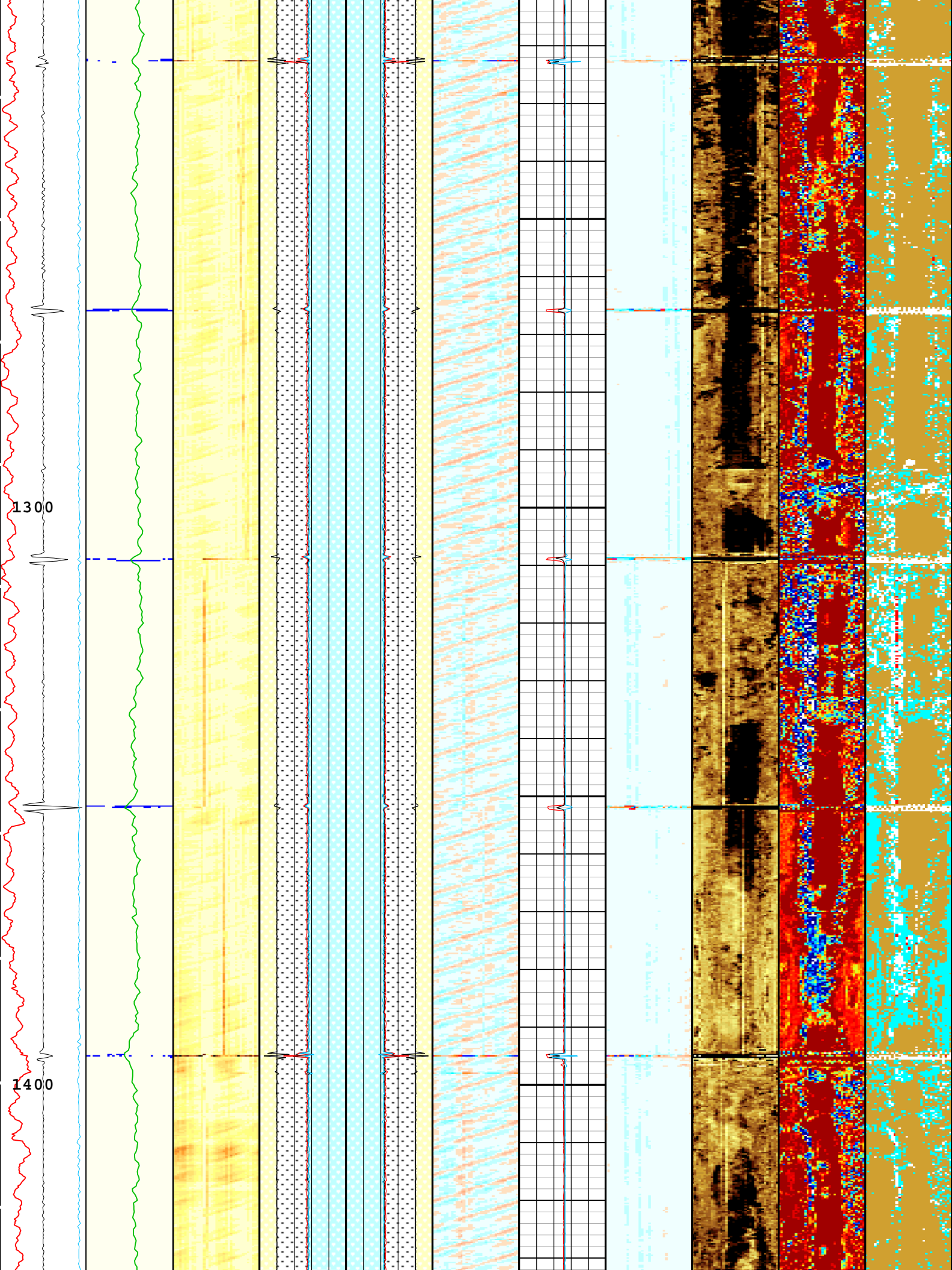


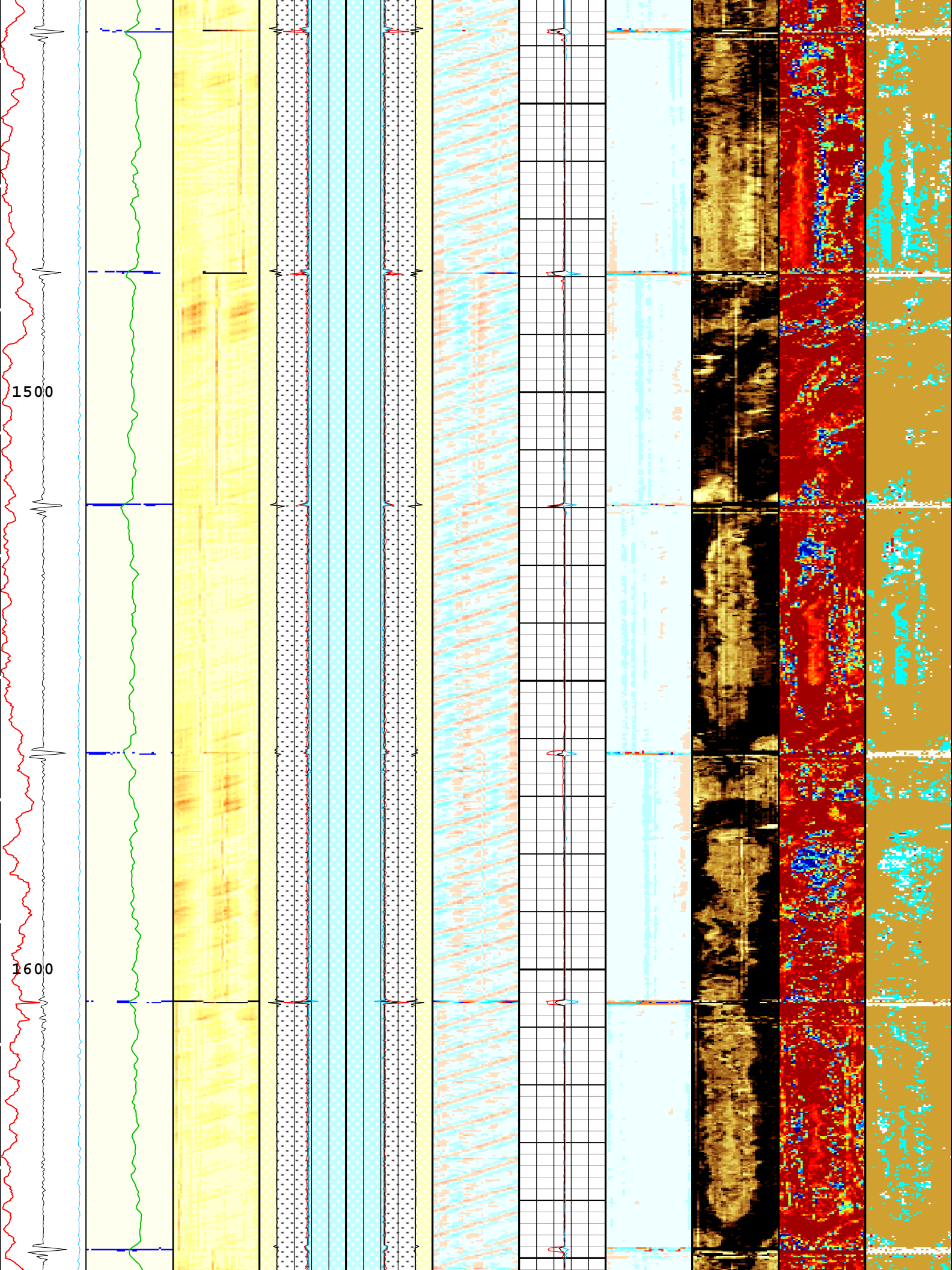


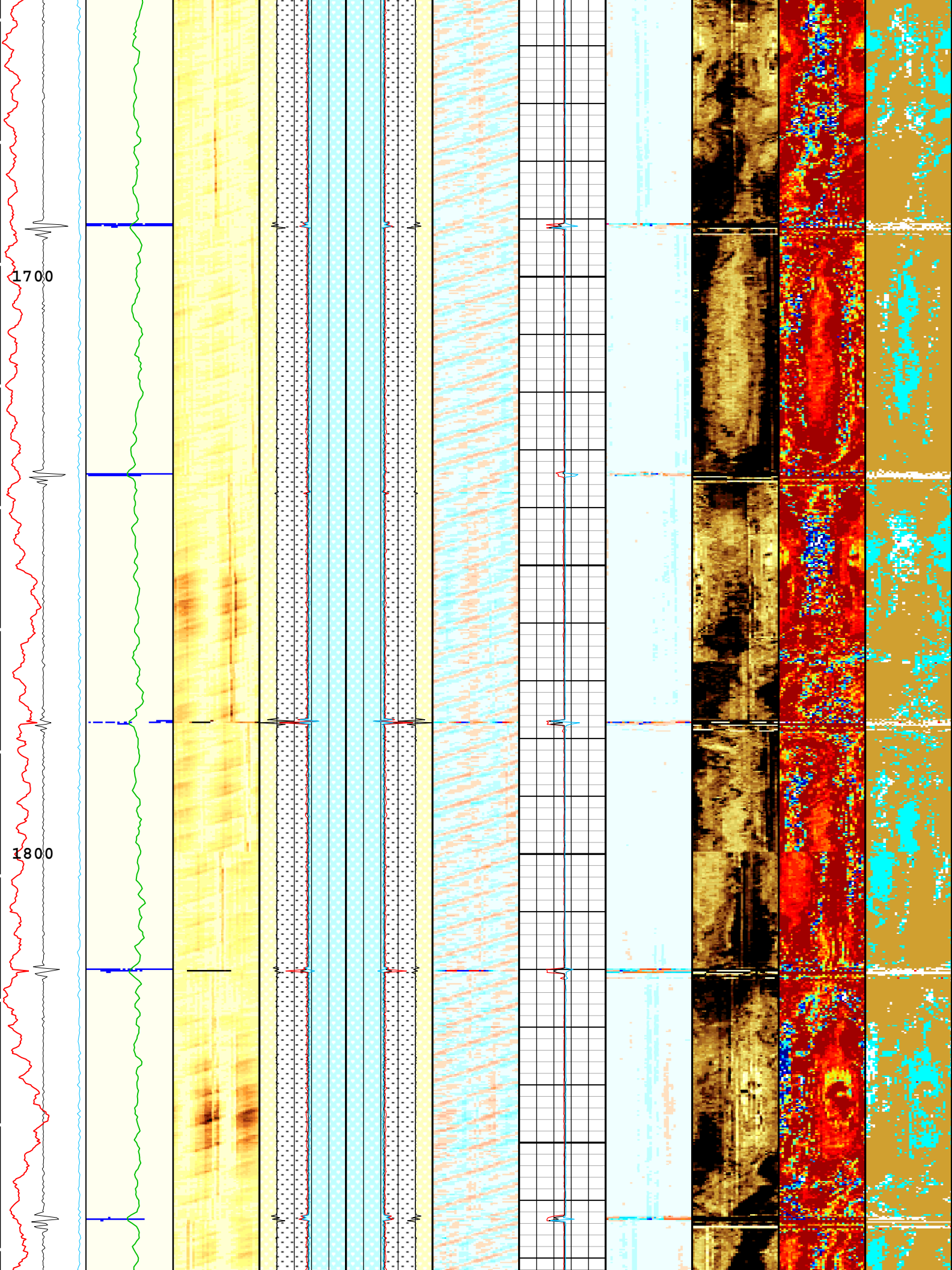


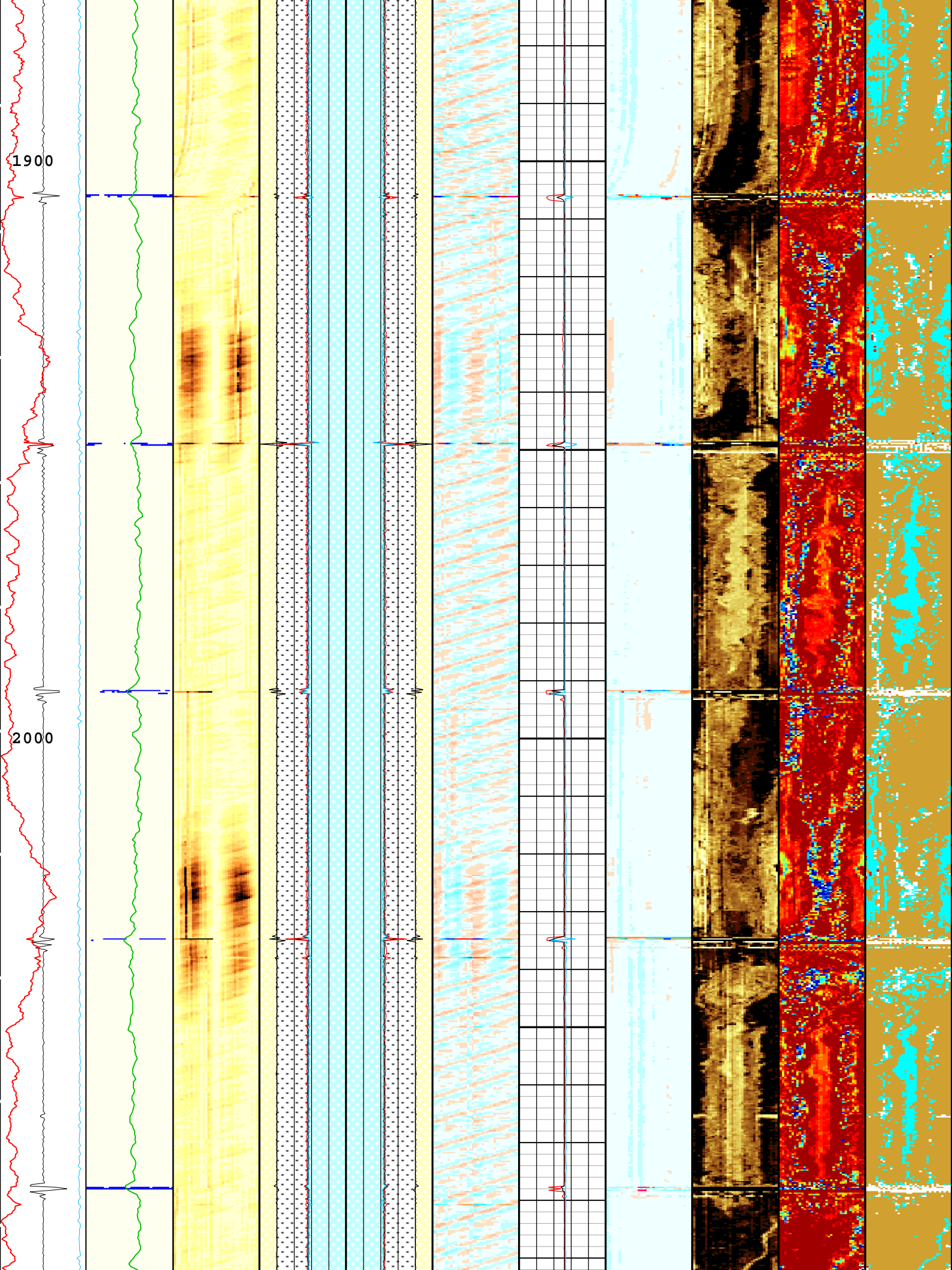


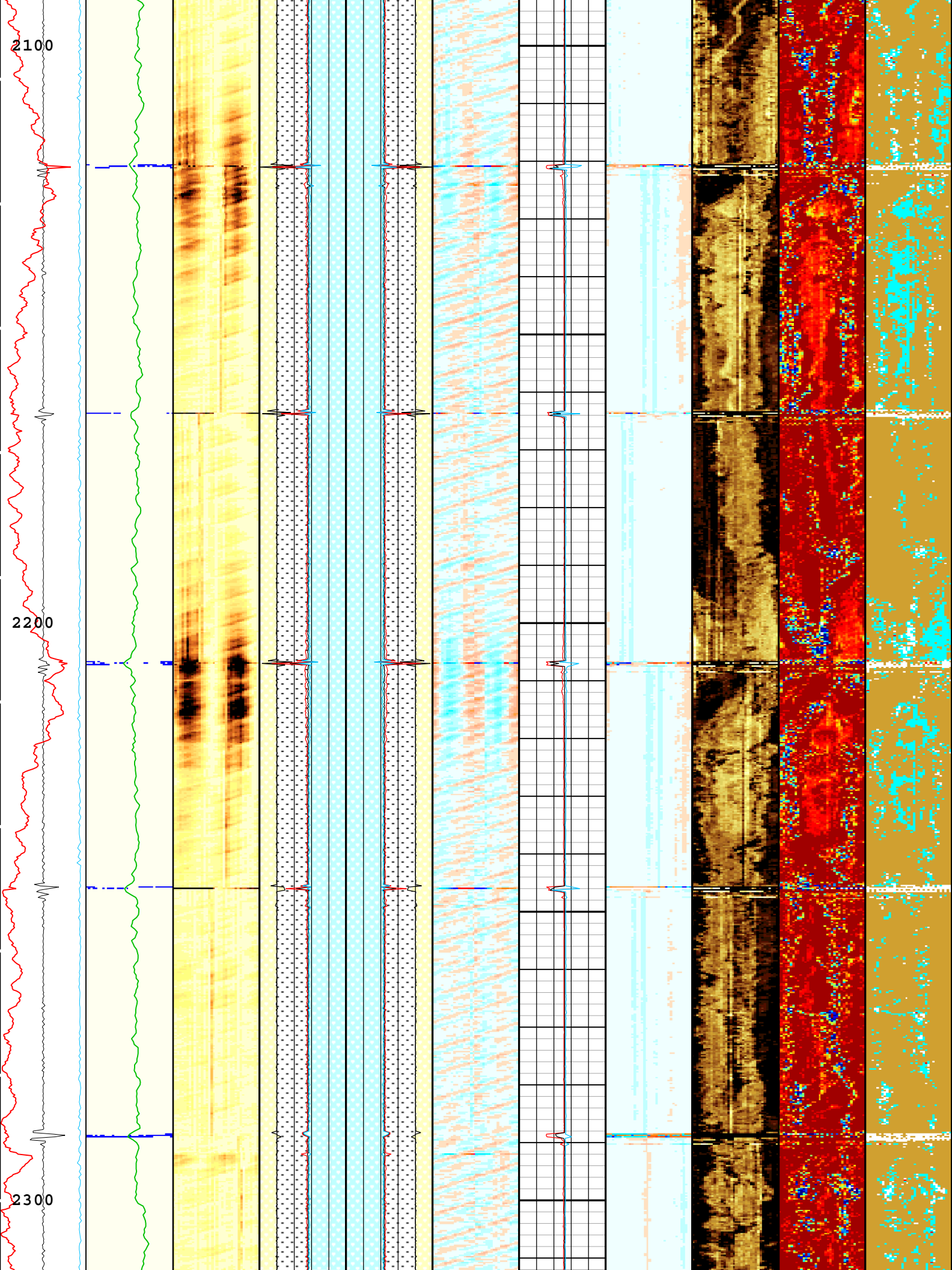


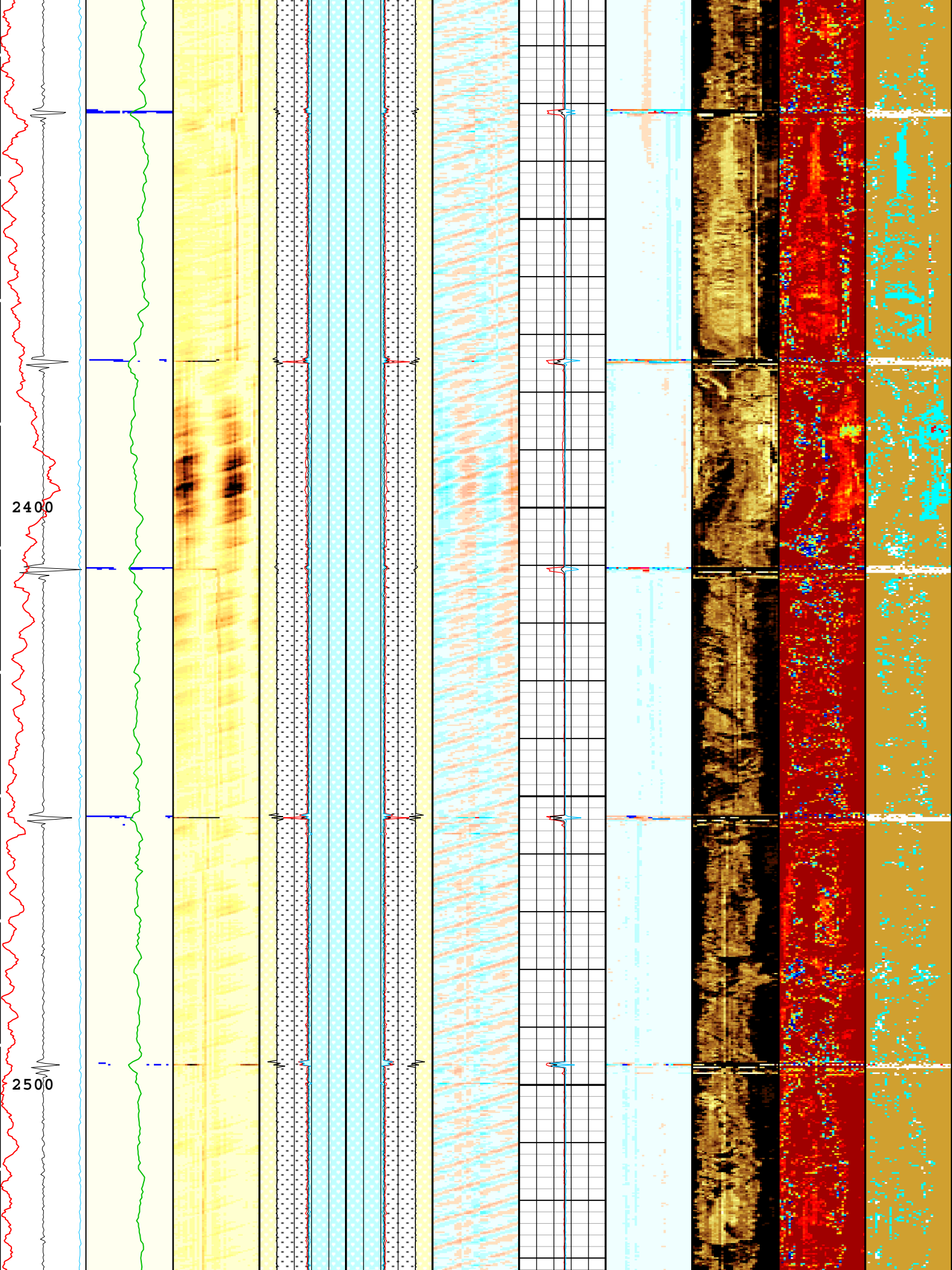


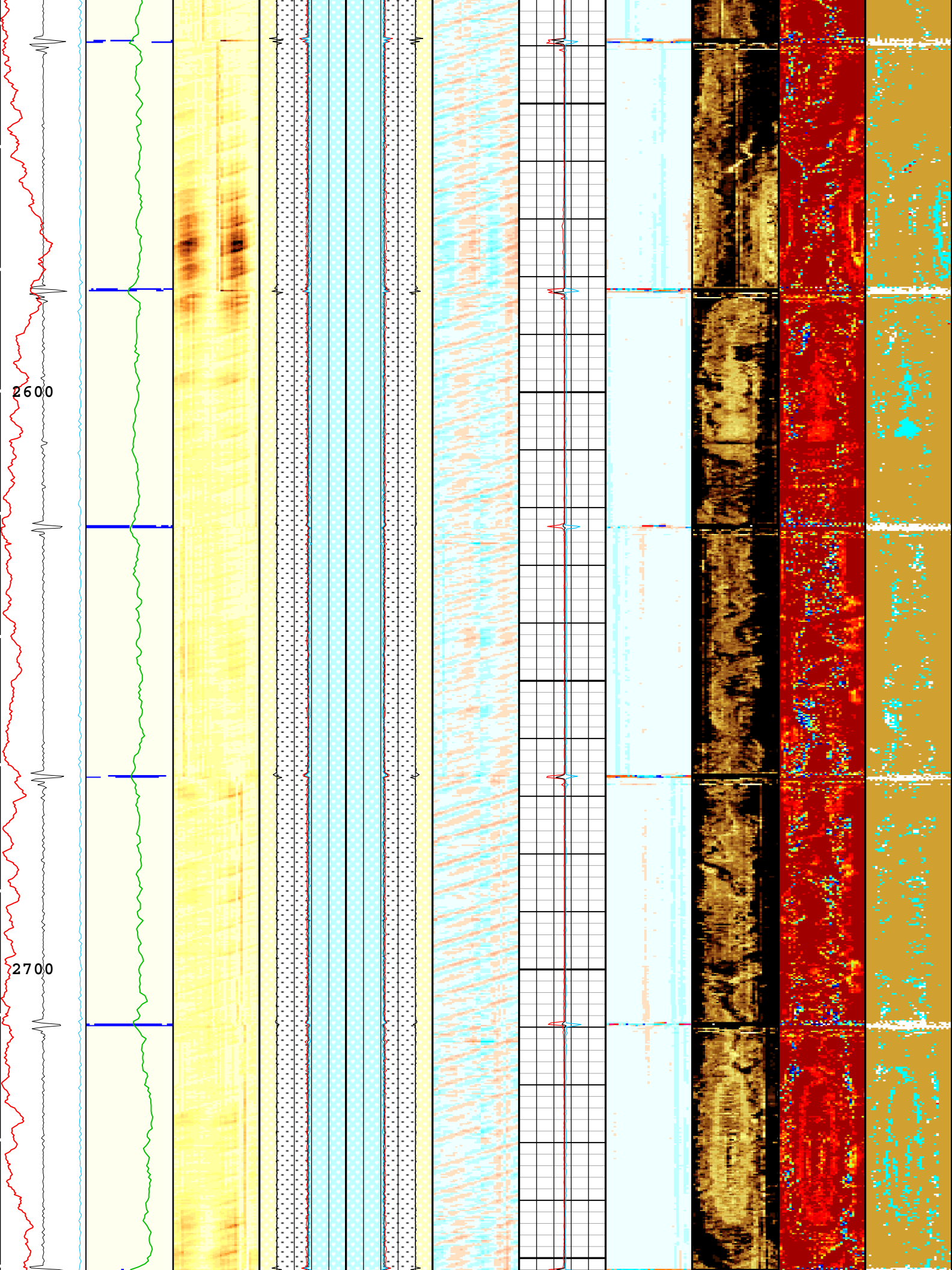


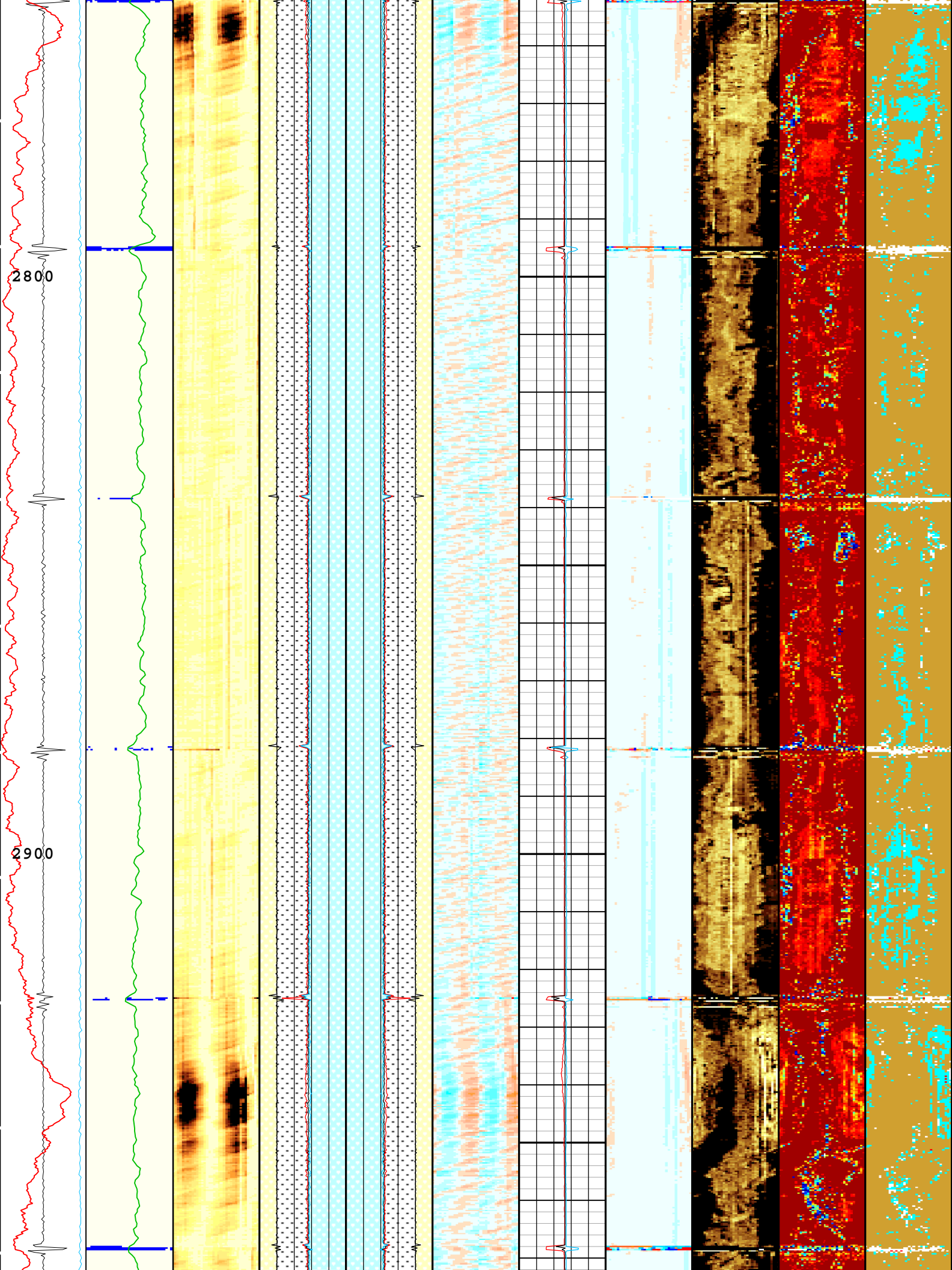


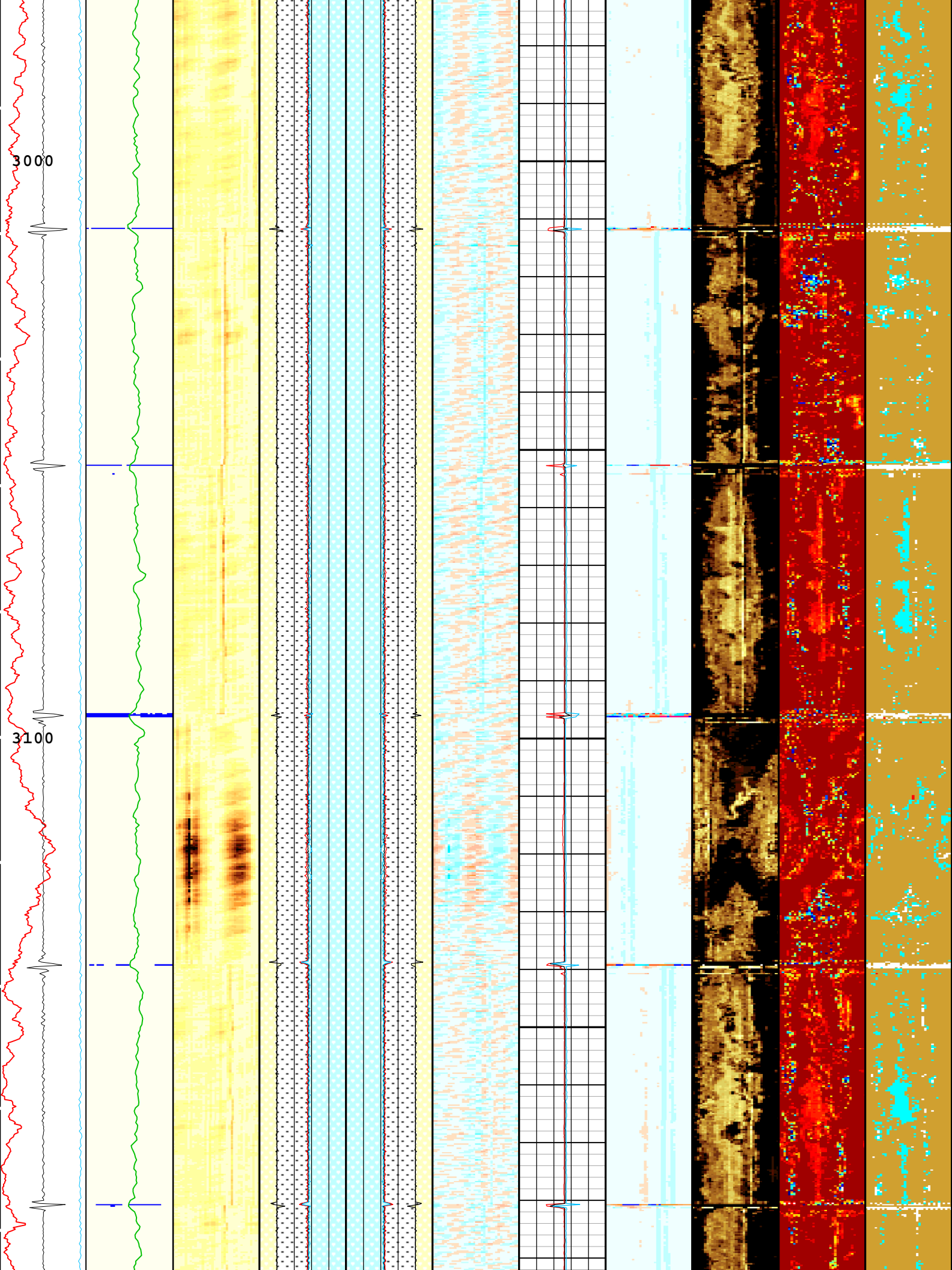


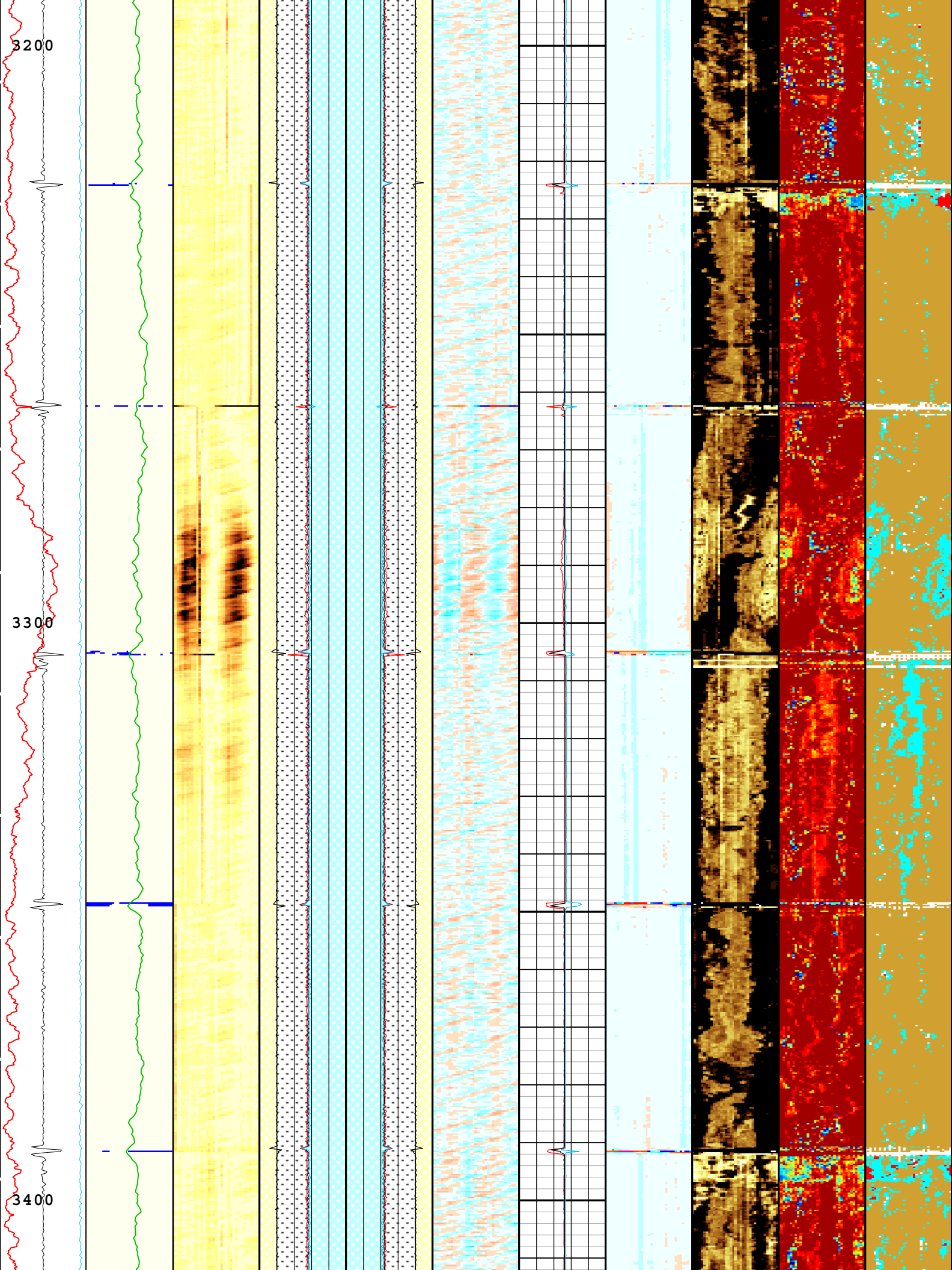


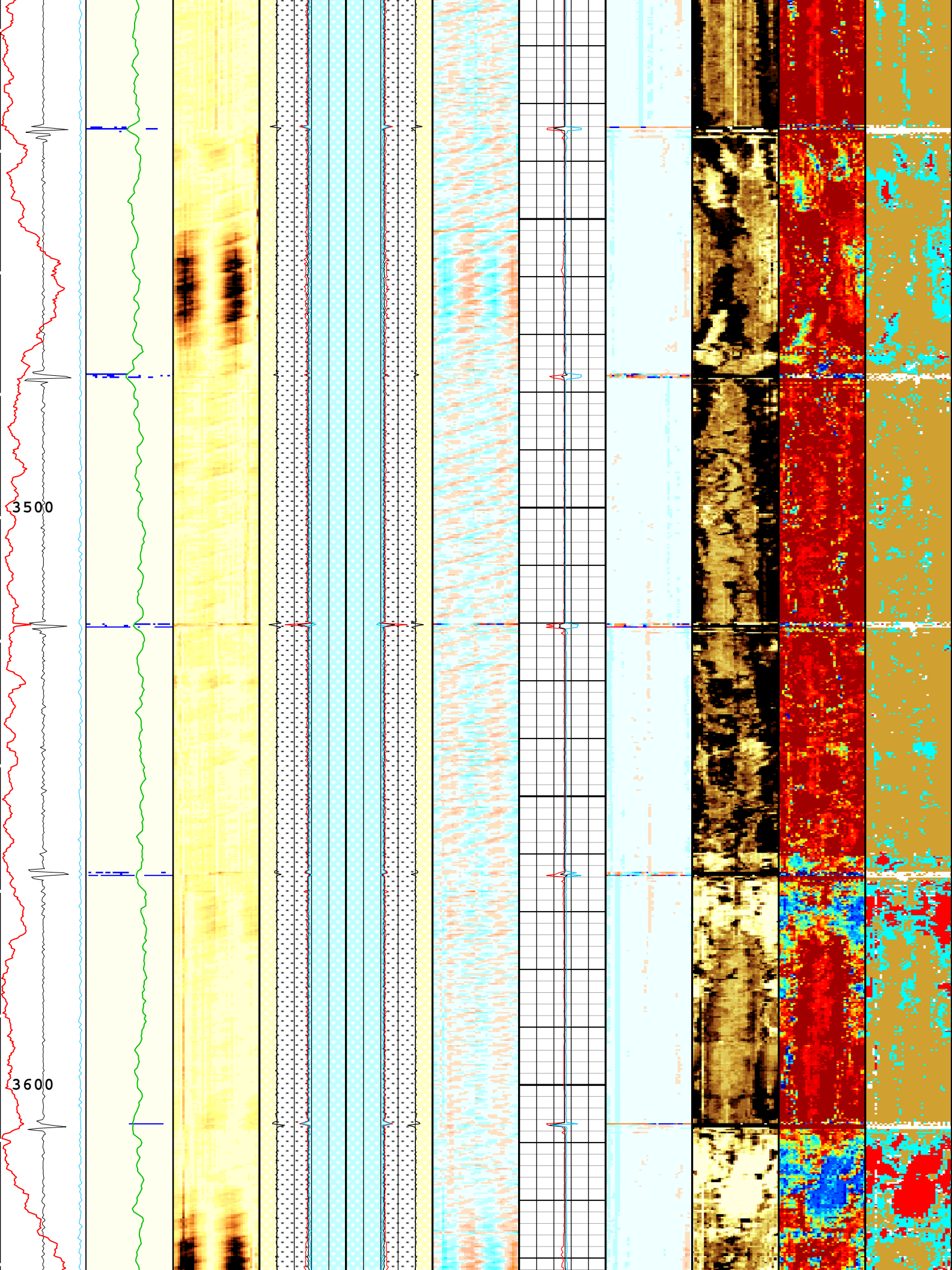


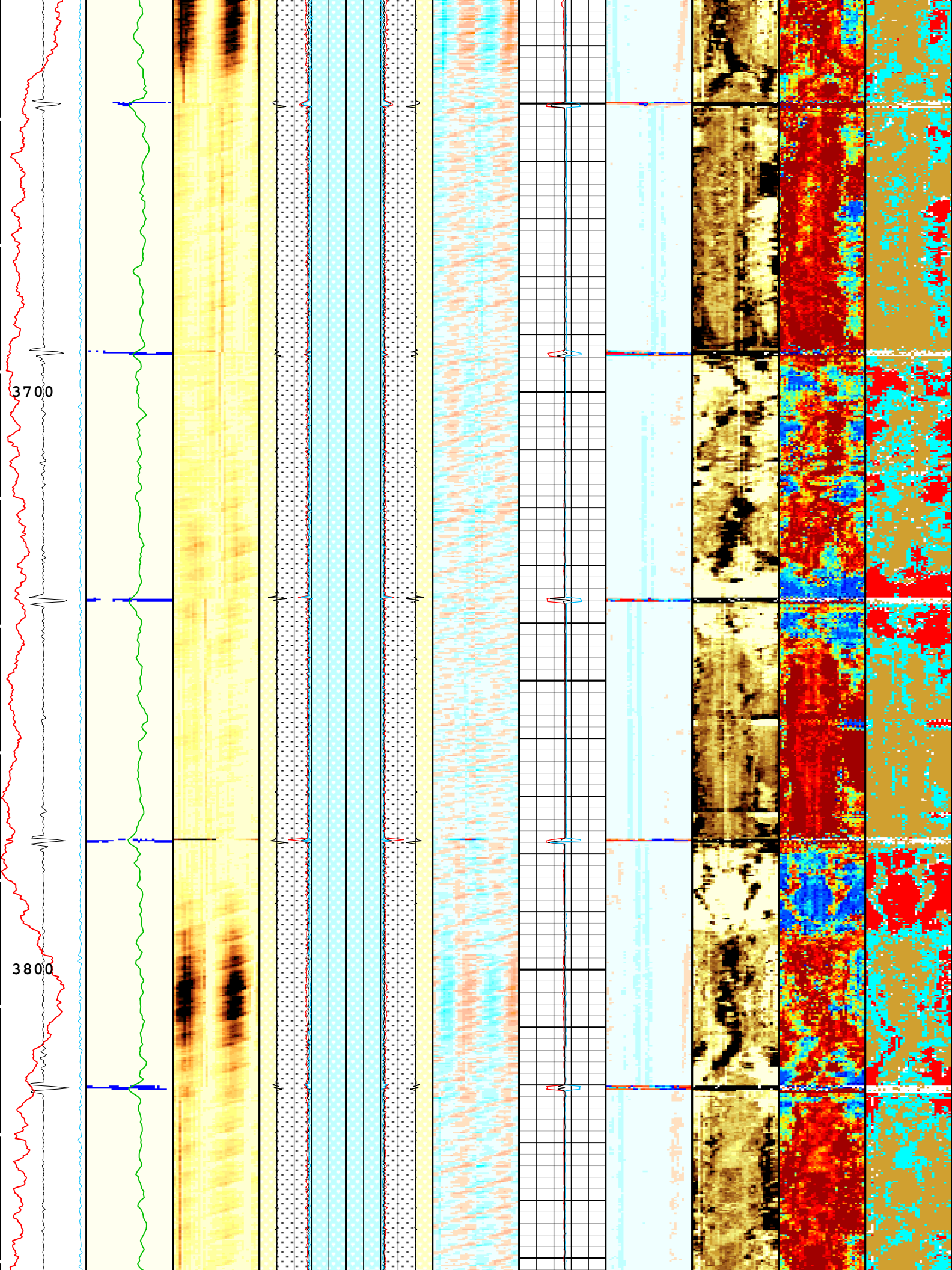


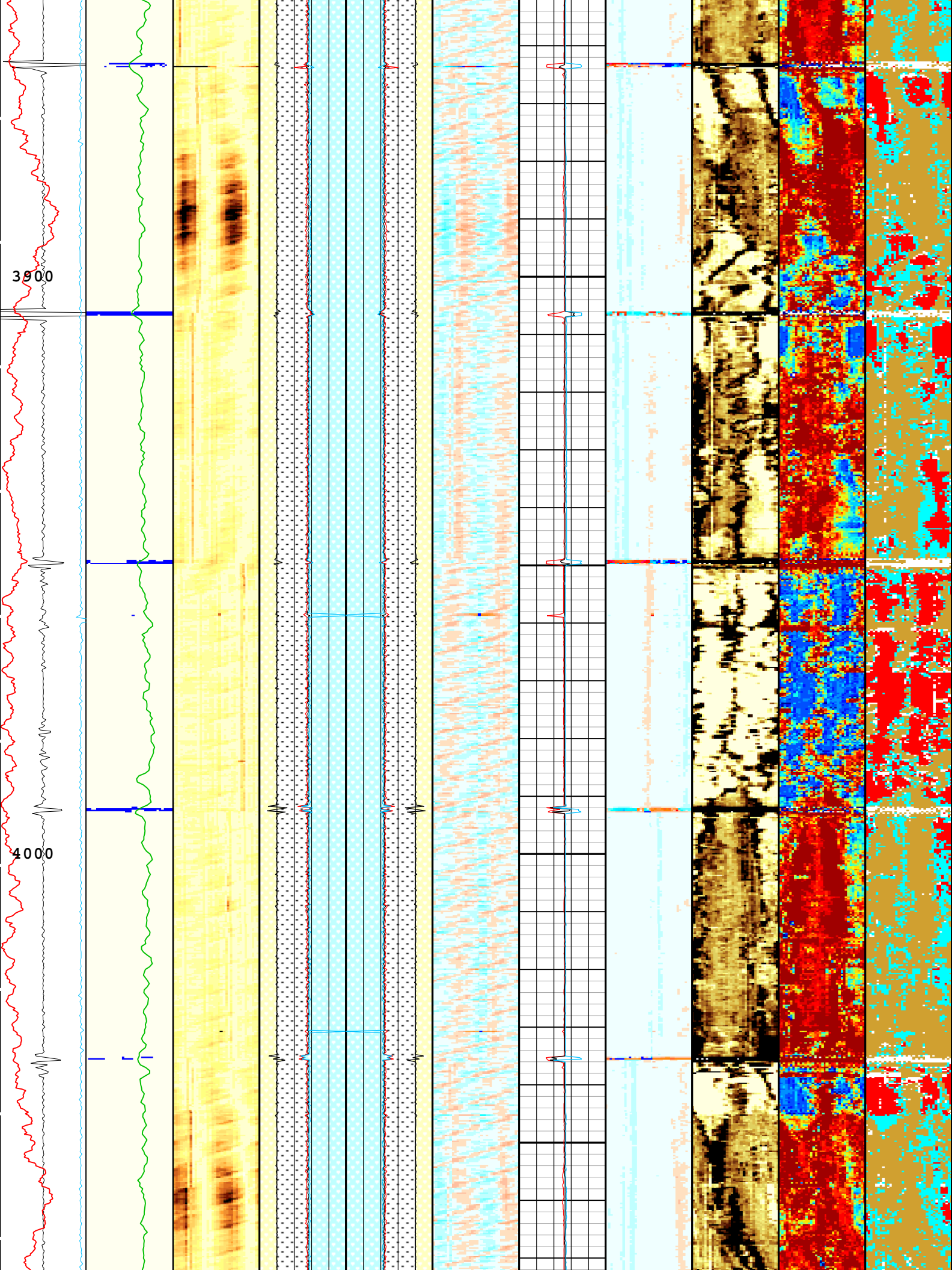


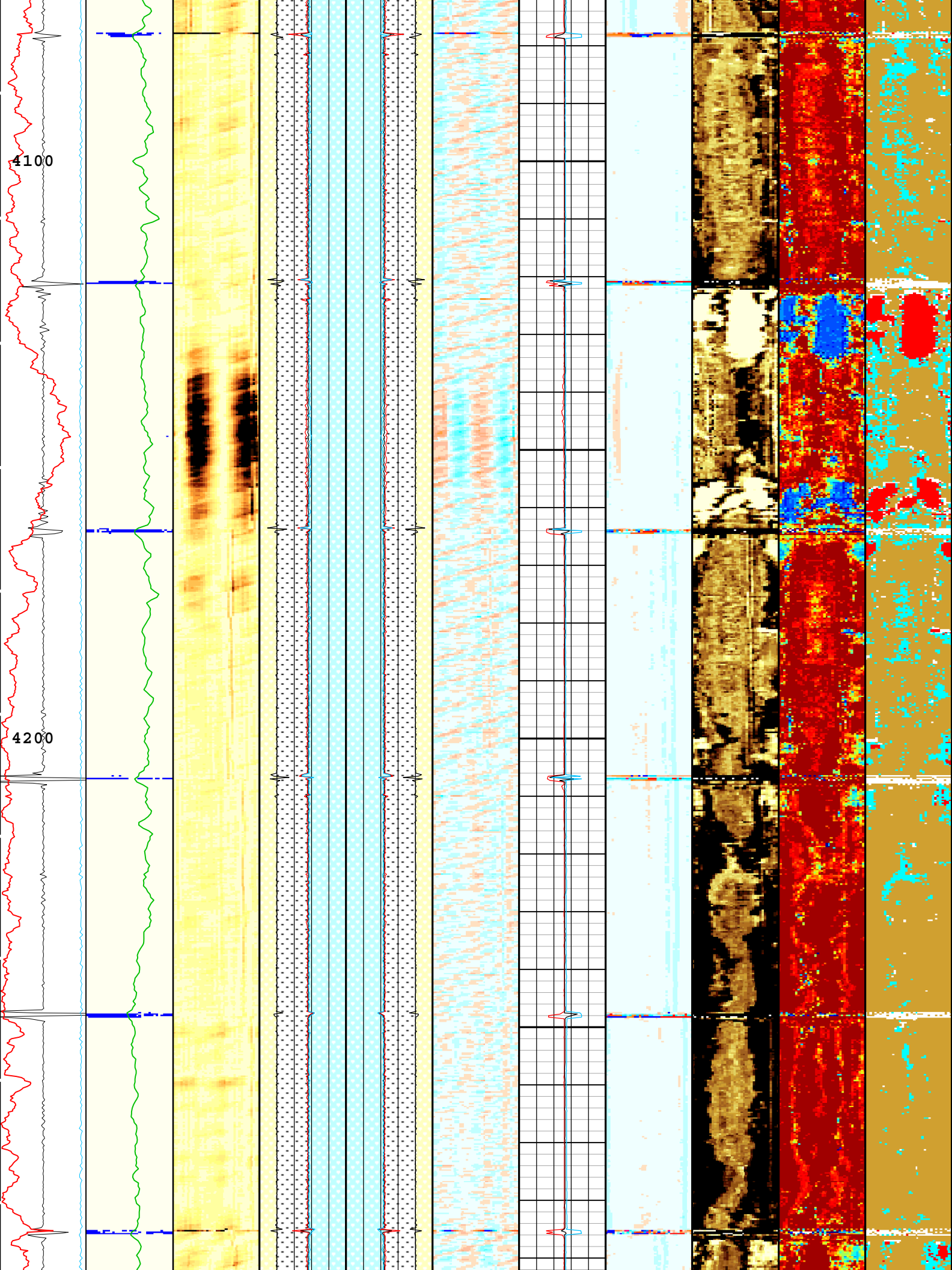


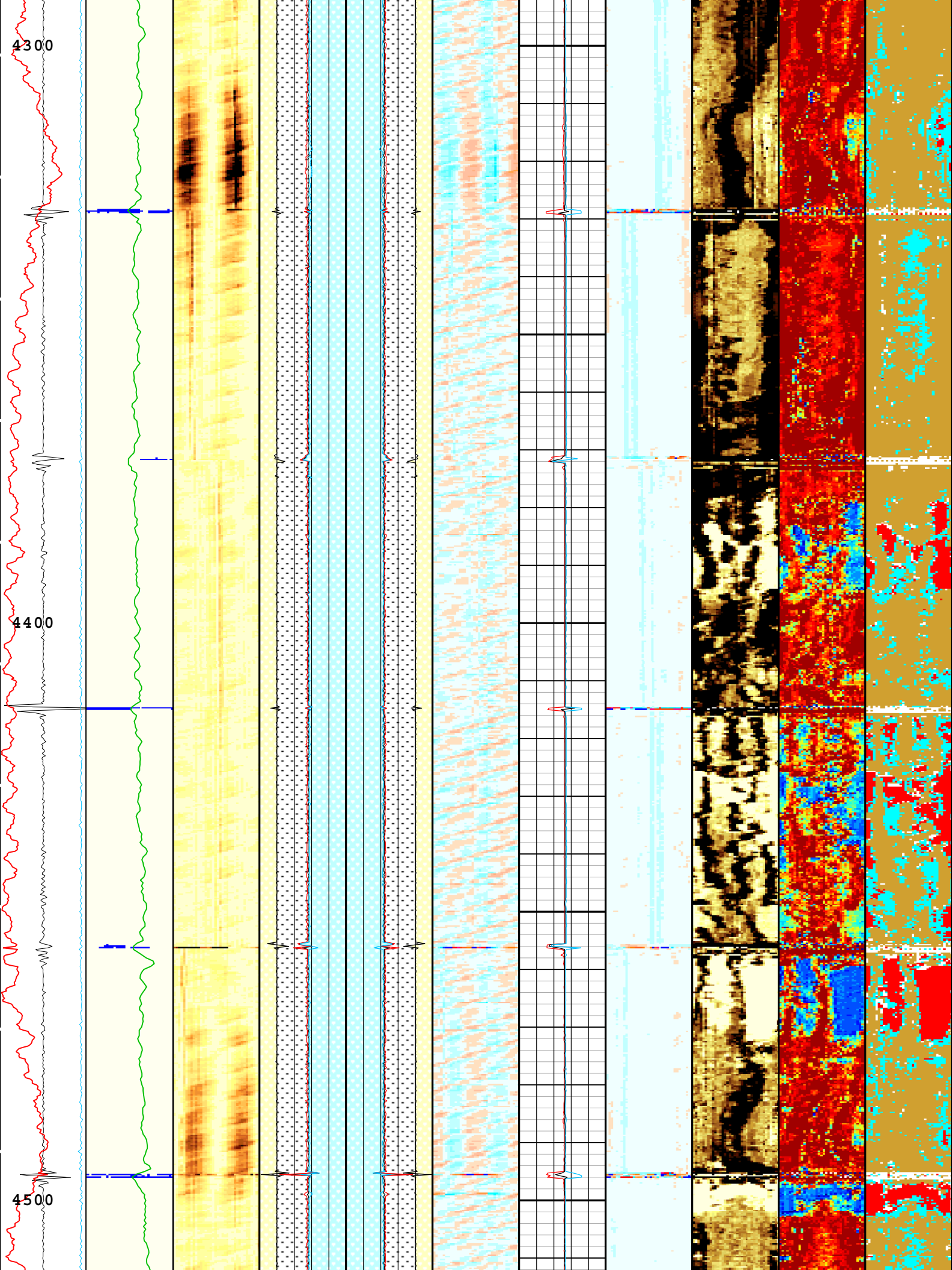


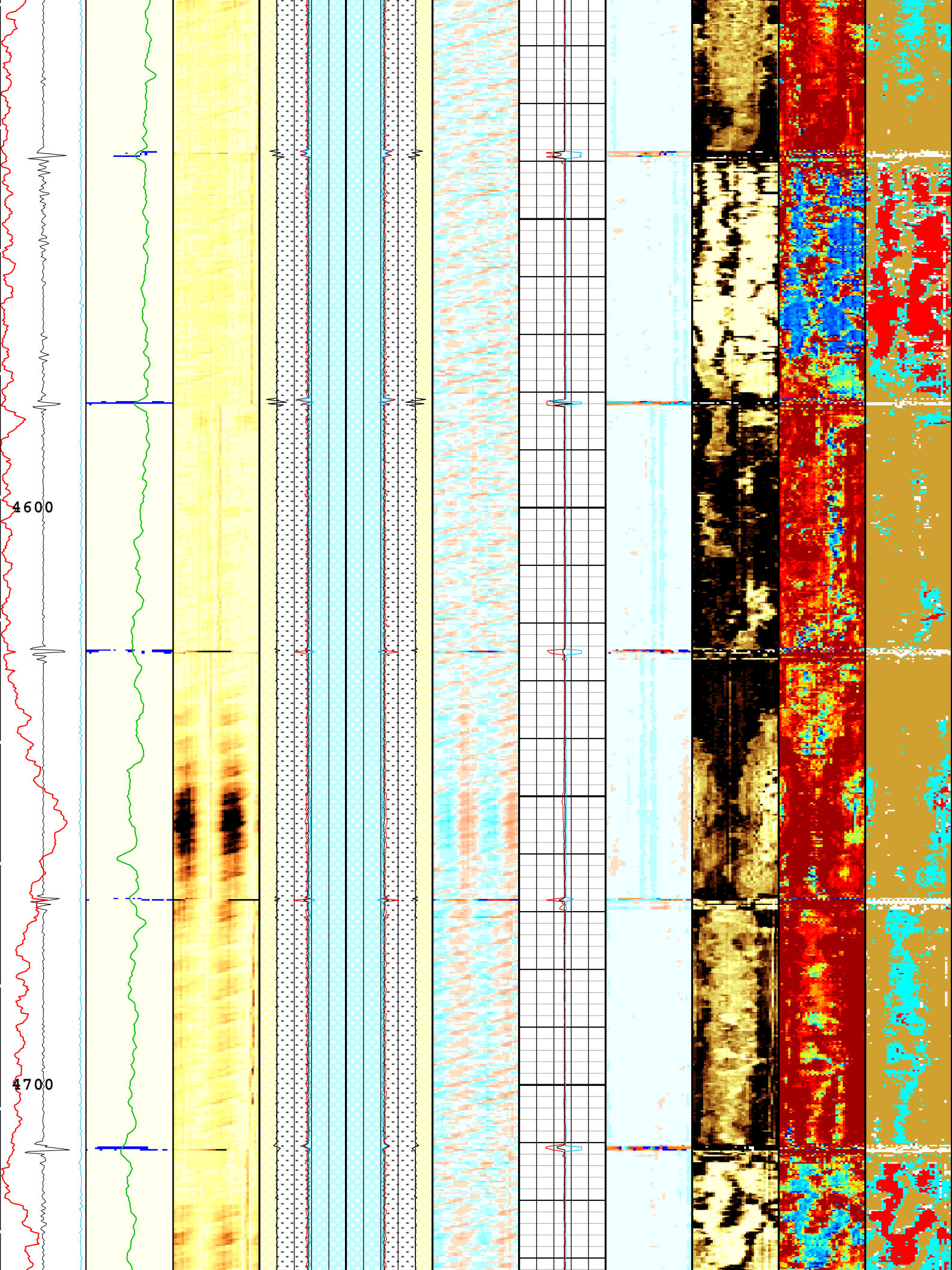


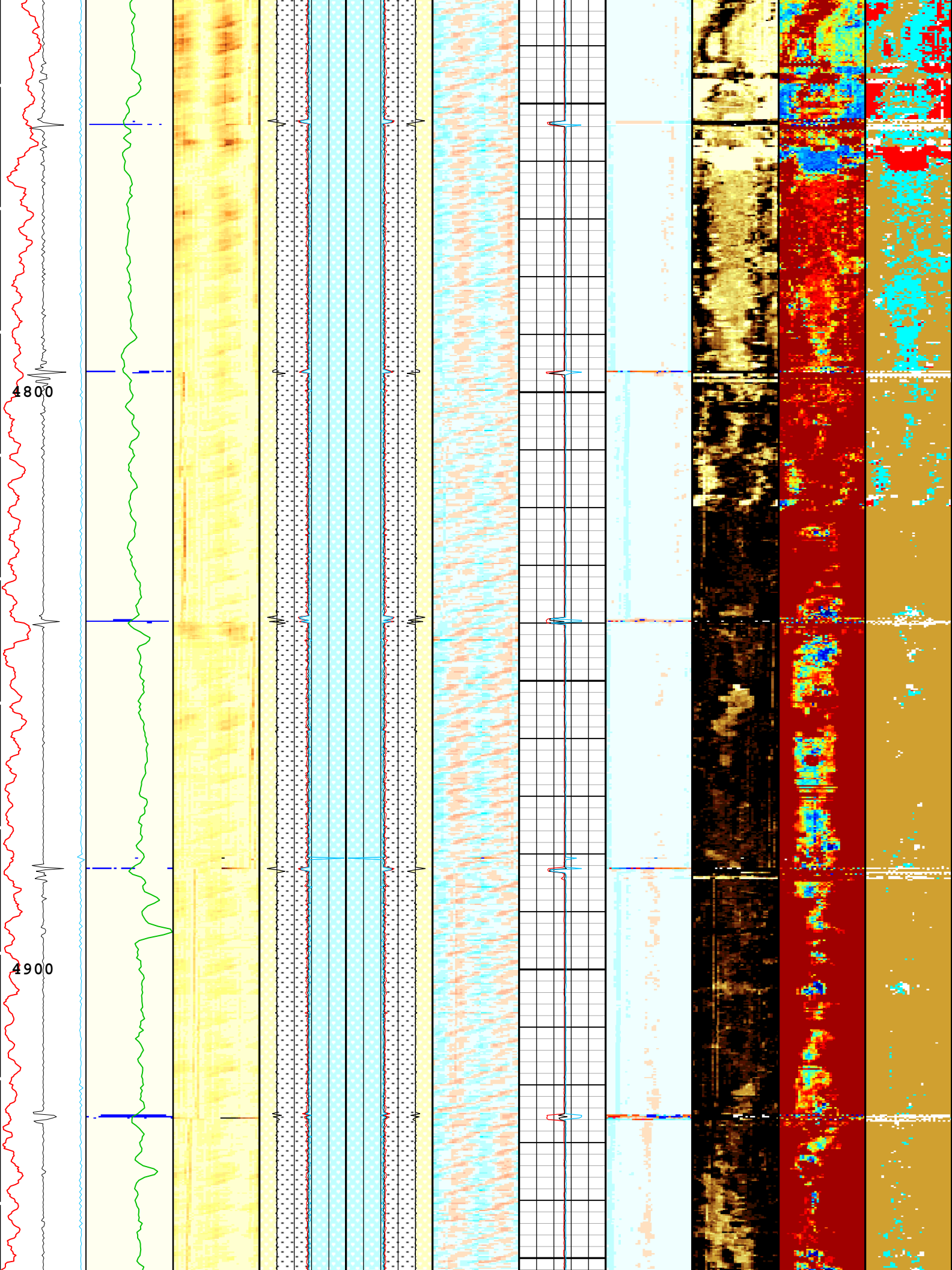


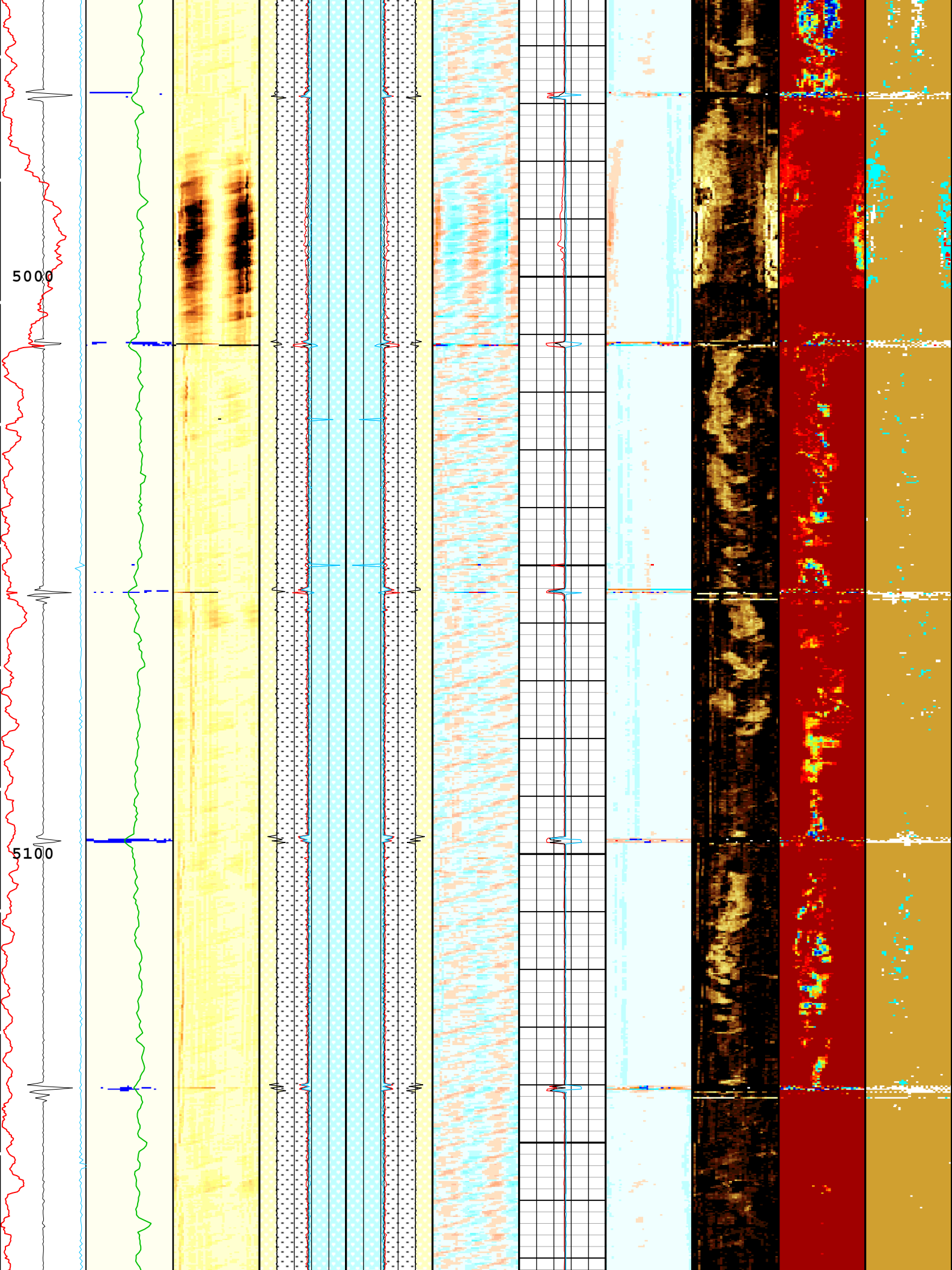


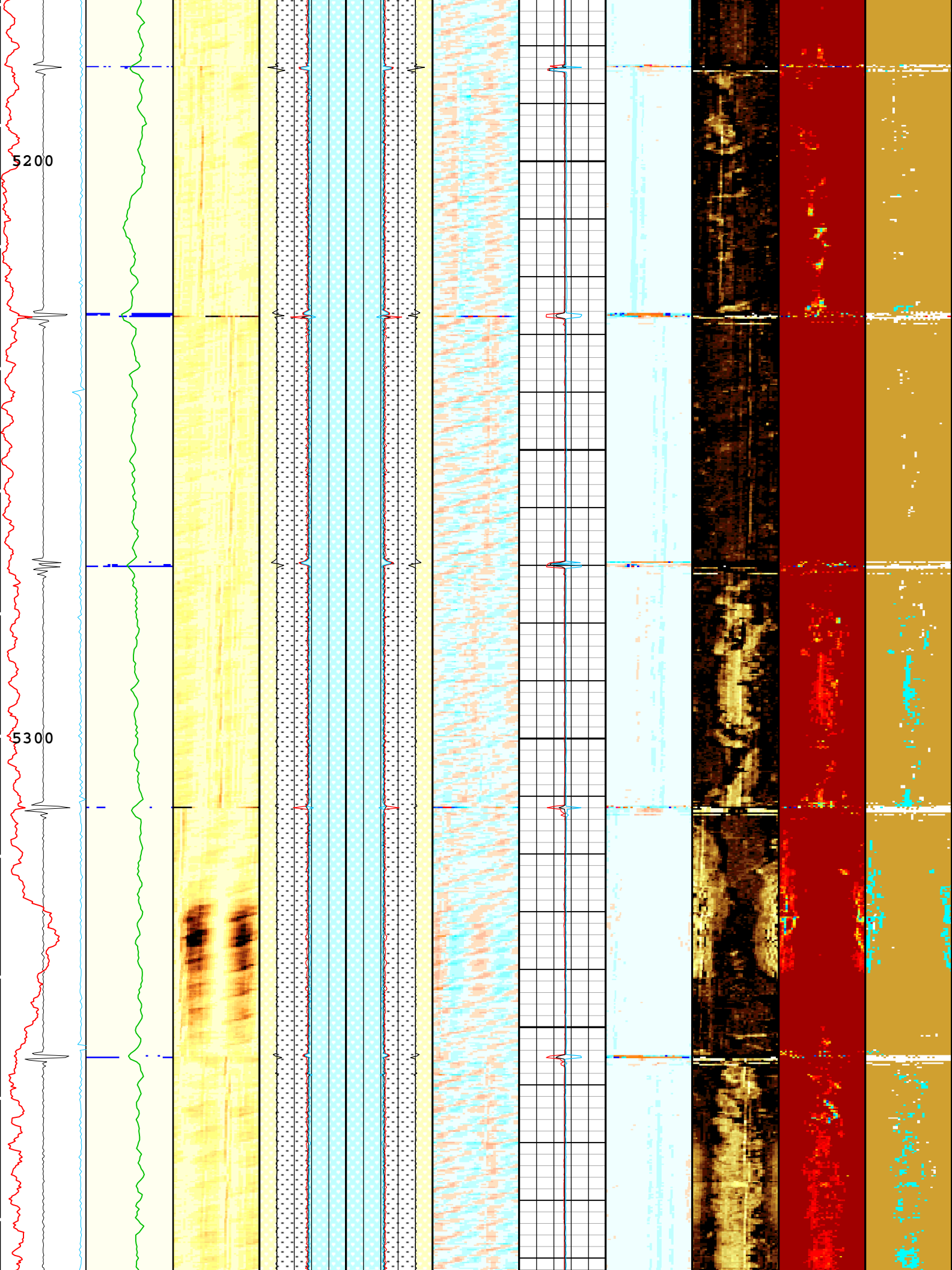


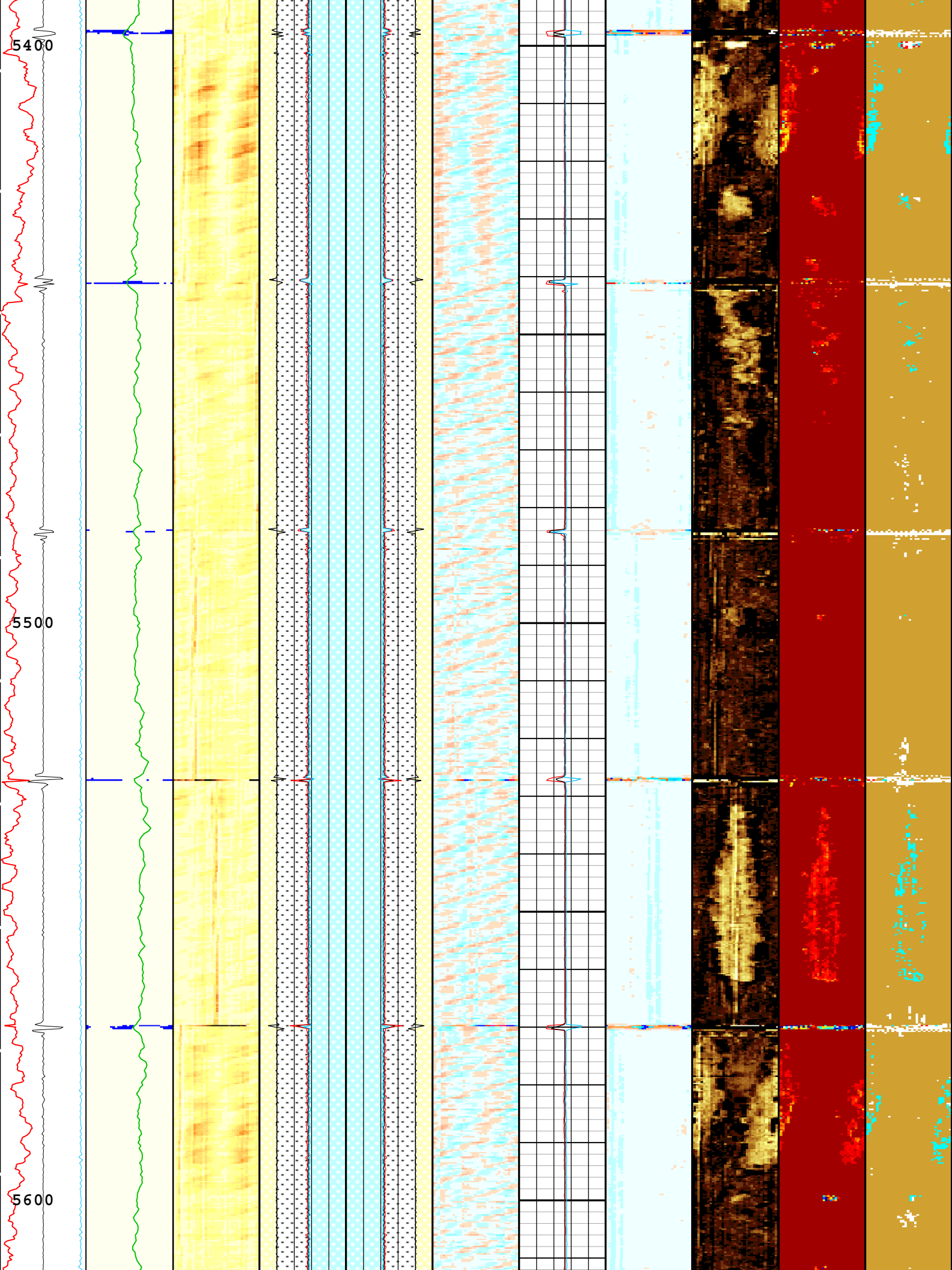


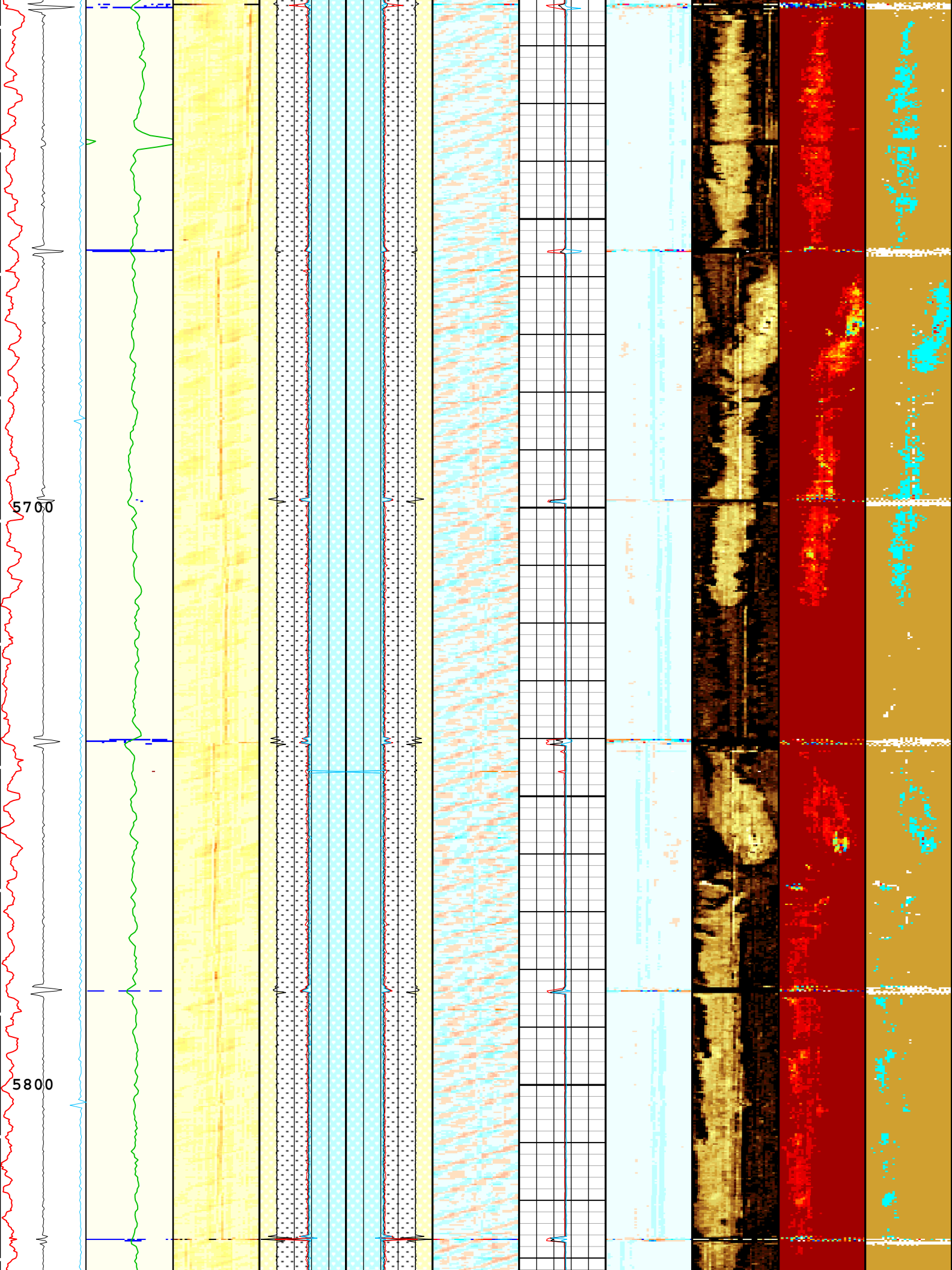


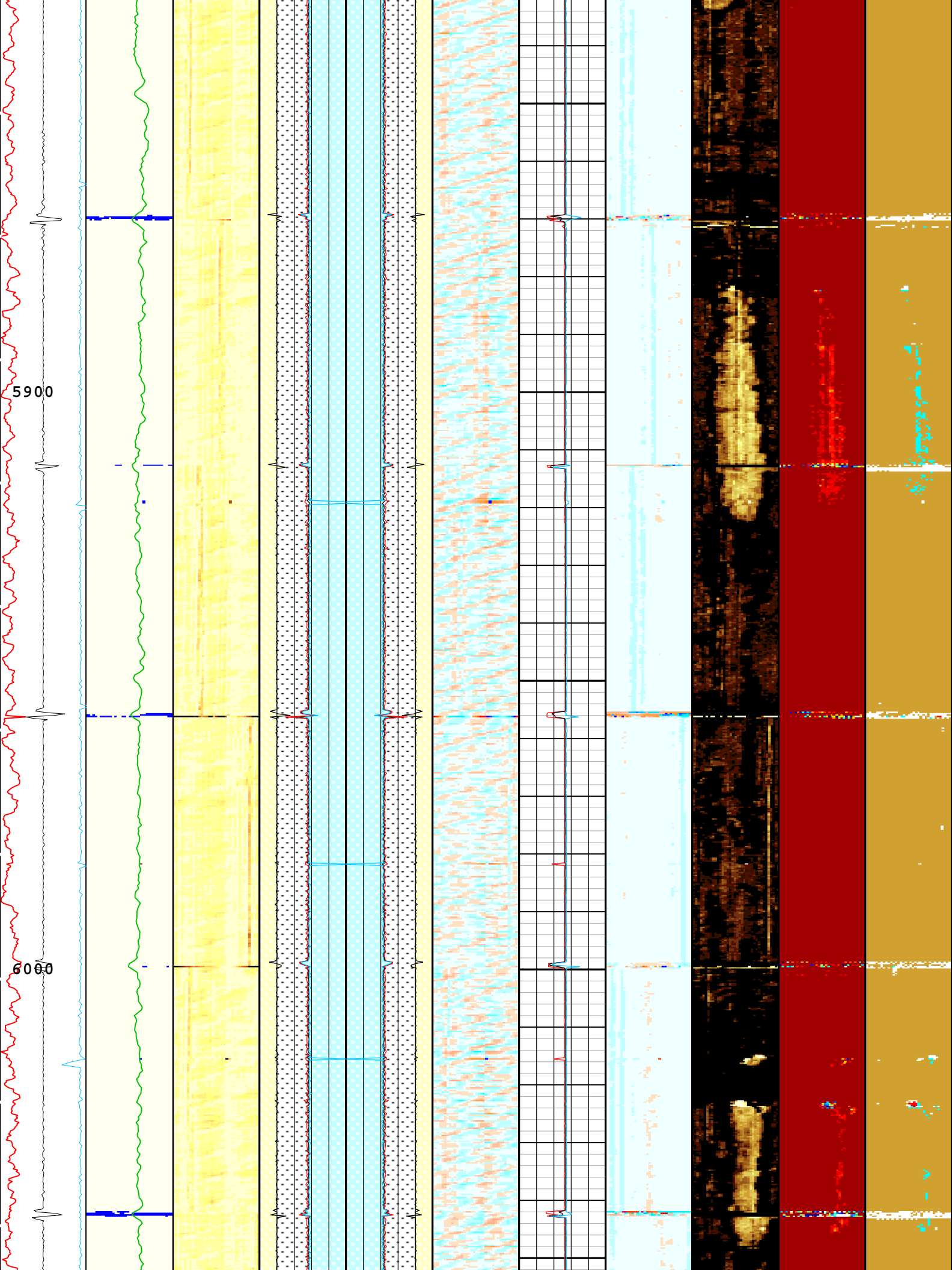


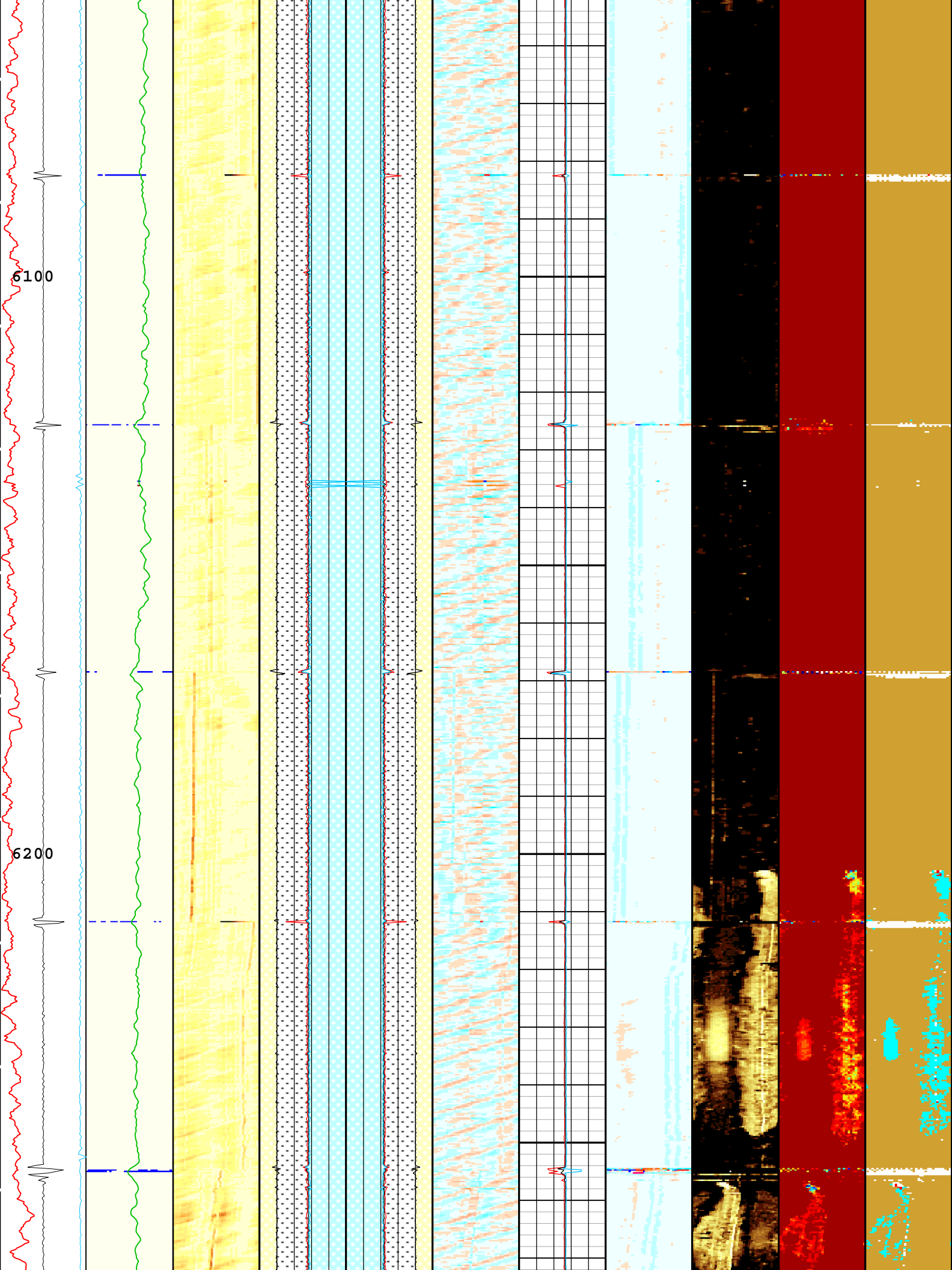


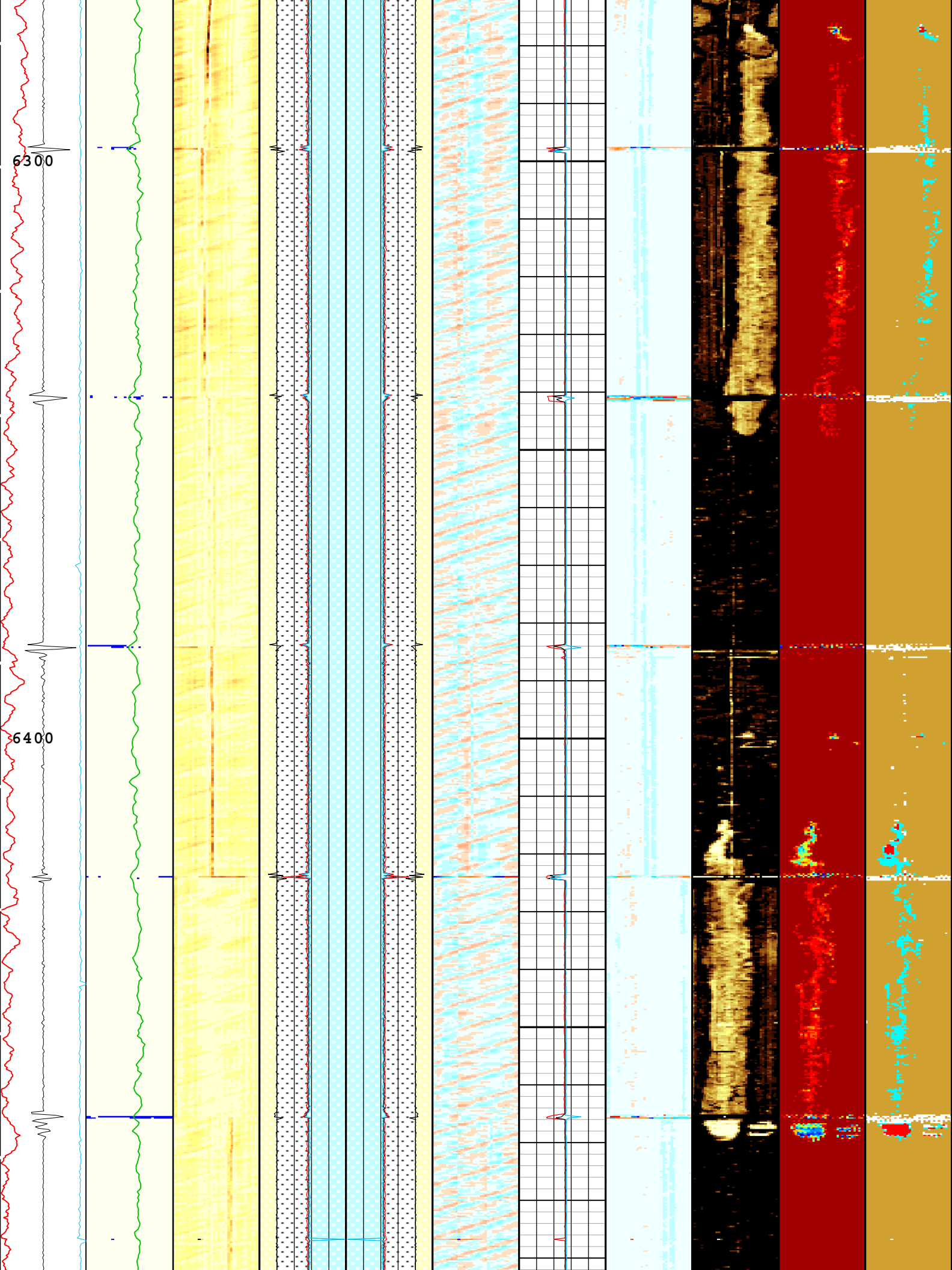


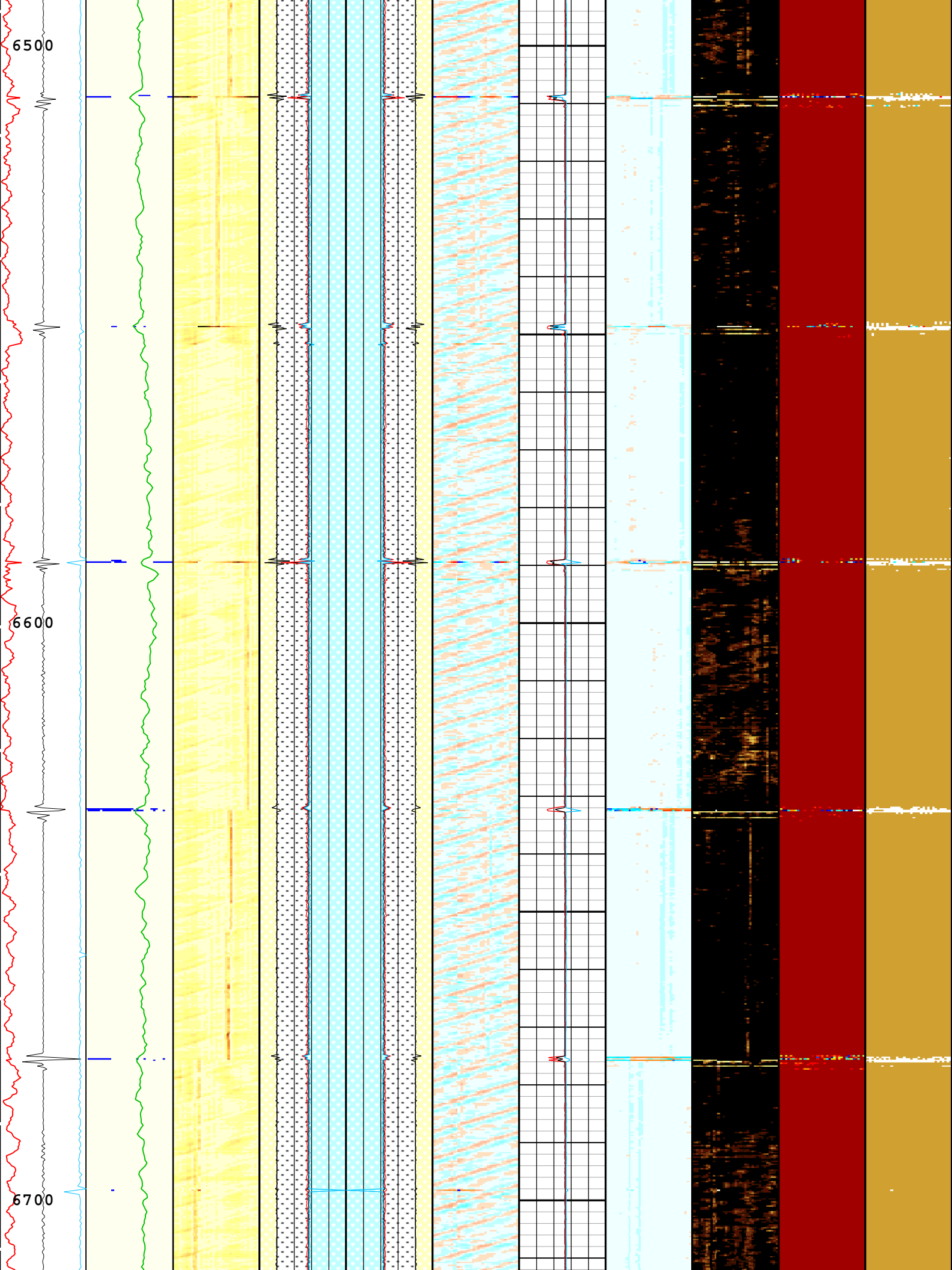


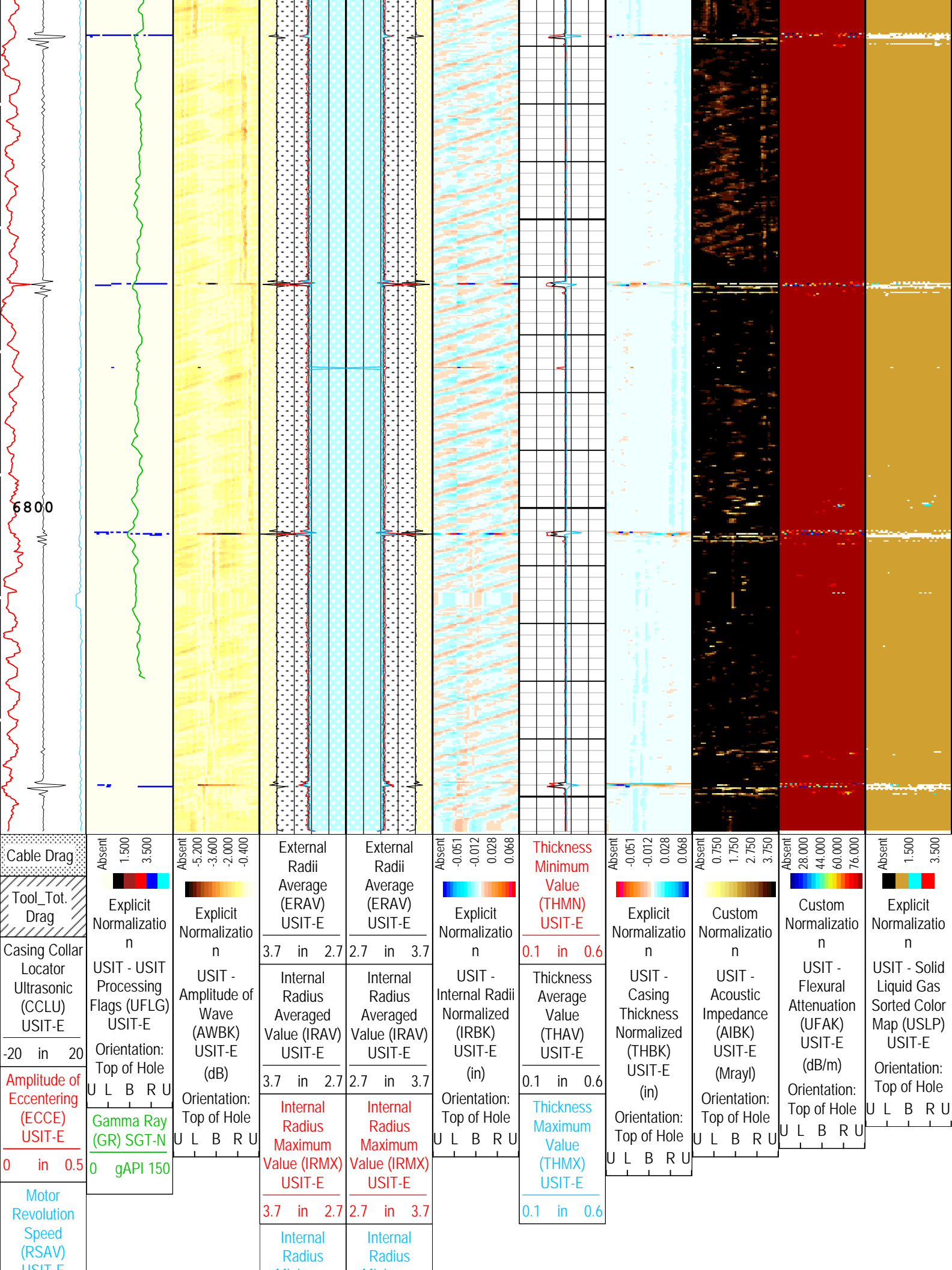












USIT-E
6 c/s 7.5
Stuck Tool Indicator, Total (STIT)
0 ft 50

Minimum Value (IRMN) USIT-E	Minimum Value (IRMN) USIT-E
3.7 in 2.7	2.7 in 3.7

TIME_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Composite Format: USI IBC SLG Composite Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 18-Jun-2014 23:08:02

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
BARI	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	7852	ft
CDEN.1	Cement Density	USIT-E	0	lbm/gal
CDEN.2	Cement Density	SGT-N	16.69	lbm/gal
CMTY	Cement Type	USIT-E	Light Cement	
CTHILGR	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.352	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	10.01	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS	
GR_MULTIPLIER	Gamma Ray Multiplier	SGT-N	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	7.81	dB/m
IBC_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_BINPROC	ICE Bin Processing Depth Interval	USIT-E	0	ft
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	Depth Zoned	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.07	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
OCDI	Outer Casing Diameter	USIT-E	0	in
OCSH	Outer Casing Shoe	USIT-E	0	ft
OCWE	Outer Casing Weight	USIT-E	0	lbm/ft
RAPID_OPTION	Rapid Access Computation Option	USIT-E	Off	
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

SOGR	Standoff Distance of the Gamma Ray Tool	SGT-N	0	in
TCUB	T^3 Processing Level	USIT-E	Loop	
TD	Total Measured Depth	Borehole	7000	ft
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS	Tool Position: Centered or Eccentered	SGT-N	Eccentered	
UDFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0	Mrayl
UFAO	SIT Flexural Attenuation Offset	USIT-E	1.88	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
UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
UTHDP	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	1.6	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	0	1000
BS	8.75	1000	6856.5
MEAS_WLEN	22.5	0	6856.5
All depth are actual.			

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	Time Zoned	dB
DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOTF	Distance between Opposite Transducer Faces	USIT-E	2.874	in
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1350	ft/h
TMUC	Type of Mud	USIT-E	BRI	
UFWB	Far Receiver Window Begin Time	USIT-E	Time Zoned	us
UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
UNWB	Near Receiver Window Begin Time	USIT-E	Time Zoned	us
UNWE	Near Receiver Window End Time	USIT-E	Time Zoned	us
USFR	Ultrasonic Sampling Frequency	USIT-E	500000	Hz
USI_UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
USI_UWKM	USIT Working Mode	USIT-E	10 deg at 3.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	6855	ft
USSP	Ultrasonic Service	USIT-E	IBC	
UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	3.0 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)
AGMX	18	18-Jun-2014 08:48:50	18-Jun-2014 09:13:48	6856.94	6326.51
AGMX	16	18-Jun-2014 09:13:48	18-Jun-2014 09:14:04	6326.51	6321.04
AGMX	14	18-Jun-2014 09:14:04	18-Jun-2014 09:14:54	6321.04	6303.01
AGMX	10	18-Jun-2014 09:14:54	18-Jun-2014 09:15:24	6303.01	6292.23
AGMX	8	18-Jun-2014 09:15:24	18-Jun-2014 09:19:14	6292.23	6210.4
AGMX	18	18-Jun-2014 09:19:14	18-Jun-2014 09:39:37	6210.4	5774.39
AGMX	24	18-Jun-2014 09:39:37	18-Jun-2014 09:40:14	5774.39	5761.08
AGMX	48	18-Jun-2014 09:40:14	18-Jun-2014 14:10:07	5761.08	8.38
EMXV	75	18-Jun-2014 08:48:50	18-Jun-2014 09:10:24	6856.94	6399.62
EMXV	70	18-Jun-2014 09:10:24	18-Jun-2014 09:10:38	6399.62	6394.49
EMXV	68	18-Jun-2014 09:10:38	18-Jun-2014 09:10:48	6394.49	6391
EMXV	65	18-Jun-2014 09:10:48	18-Jun-2014 09:10:55	6391	6388.54
EMXV	62	18-Jun-2014 09:10:55	18-Jun-2014 09:11:02	6388.54	6385.91
EMXV	60	18-Jun-2014 09:11:02	18-Jun-2014 09:11:14	6385.91	6381.72
EMXV	58	18-Jun-2014 09:11:14	18-Jun-2014 09:11:32	6381.72	6375.5
EMXV	56	18-Jun-2014 09:11:32	18-Jun-2014 09:12:17	6375.5	6359.24
EMXV	52	18-Jun-2014 09:12:17	18-Jun-2014 09:12:22	6359.24	6357.39
EMXV	48	18-Jun-2014 09:12:22	18-Jun-2014 09:12:28	6357.39	6355.51
EMXV	46	18-Jun-2014 09:12:28	18-Jun-2014 09:12:32	6355.51	6353.78
EMXV	42	18-Jun-2014 09:12:32	18-Jun-2014 09:12:46	6353.78	6348.75
EMXV	38	18-Jun-2014 09:12:46	18-Jun-2014 09:13:05	6348.75	6342.21
EMXV	35	18-Jun-2014 09:13:05	18-Jun-2014 09:13:18	6342.21	6337.41
EMXV	30	18-Jun-2014 09:13:18	18-Jun-2014 09:13:28	6337.41	6333.92
EMXV	26	18-Jun-2014 09:13:28	18-Jun-2014 09:13:35	6333.92	6331.31
EMXV	20	18-Jun-2014 09:13:35	18-Jun-2014 09:14:15	6331.31	6316.82
EMXV	16	18-Jun-2014 09:14:15	18-Jun-2014 09:14:23	6316.82	6314.13
EMXV	14	18-Jun-2014 09:14:23	18-Jun-2014 09:14:32	6314.13	6310.8
EMXV	10	18-Jun-2014 09:14:32	18-Jun-2014 09:21:49	6310.8	6155
EMXV	8	18-Jun-2014 09:21:49	18-Jun-2014 09:22:23	6155	6142.82
EMXV	5	18-Jun-2014 09:22:23	18-Jun-2014 09:24:39	6142.82	6094.3
EMXV	8	18-Jun-2014 09:24:39	18-Jun-2014 09:24:47	6094.3	6091.71
EMXV	3	18-Jun-2014 09:24:47	18-Jun-2014 09:32:02	6091.71	5936.33
EMXV	1	18-Jun-2014 09:32:02	18-Jun-2014 09:32:30	5936.33	5926.08
EMXV	3	18-Jun-2014 09:32:30	18-Jun-2014 09:32:55	5926.08	5917.3
EMXV	1	18-Jun-2014 09:32:55	18-Jun-2014 10:00:37	5917.3	5328.2
EMXV	3	18-Jun-2014 10:00:37	18-Jun-2014 10:01:02	5328.2	5319.71
EMXV	1	18-Jun-2014 10:01:02	18-Jun-2014 10:12:17	5319.71	5082.63
EMXV	0	18-Jun-2014 10:12:17	18-Jun-2014 10:32:20	5082.63	4654.44
EMXV	5	18-Jun-2014 10:32:20	18-Jun-2014 10:32:31	4654.44	4650.53
EMXV	8	18-Jun-2014 10:32:31	18-Jun-2014 10:33:06	4650.53	4638.38
EMXV	10	18-Jun-2014 10:33:06	18-Jun-2014 10:35:57	4638.38	4577.74

EMXV	8	18-Jun-2014 10:35:57	18-Jun-2014 10:36:05	4577.74	4574.67
EMXV	6	18-Jun-2014 10:36:05	18-Jun-2014 10:48:37	4574.67	4309.4
EMXV	8	18-Jun-2014 10:48:37	18-Jun-2014 10:56:00	4309.4	4152.73
EMXV	9	18-Jun-2014 10:56:00	18-Jun-2014 10:56:16	4152.73	4147.08
EMXV	10	18-Jun-2014 10:56:16	18-Jun-2014 10:56:21	4147.08	4145.24
EMXV	12	18-Jun-2014 10:56:21	18-Jun-2014 10:56:27	4145.24	4143.17
EMXV	14	18-Jun-2014 10:56:27	18-Jun-2014 10:56:32	4143.17	4141.42
EMXV	16	18-Jun-2014 10:56:32	18-Jun-2014 10:56:37	4141.42	4139.62
EMXV	18	18-Jun-2014 10:56:37	18-Jun-2014 10:56:43	4139.62	4137.37
EMXV	20	18-Jun-2014 10:56:43	18-Jun-2014 10:59:35	4137.37	4075.47
EMXV	22	18-Jun-2014 10:59:35	18-Jun-2014 10:59:42	4075.47	4072.81
EMXV	24	18-Jun-2014 10:59:42	18-Jun-2014 10:59:58	4072.81	4067.27
EMXV	26	18-Jun-2014 10:59:58	18-Jun-2014 11:00:19	4067.27	4059.59
EMXV	28	18-Jun-2014 11:00:19	18-Jun-2014 11:00:25	4059.59	4057.27
EMXV	30	18-Jun-2014 11:00:25	18-Jun-2014 11:00:32	4057.27	4054.97
EMXV	33	18-Jun-2014 11:00:32	18-Jun-2014 11:00:37	4054.97	4053
EMXV	36	18-Jun-2014 11:00:37	18-Jun-2014 11:00:45	4053	4050.27
EMXV	40	18-Jun-2014 11:00:45	18-Jun-2014 11:00:56	4050.27	4046.25
EMXV	43	18-Jun-2014 11:00:56	18-Jun-2014 11:01:05	4046.25	4043.02
EMXV	47	18-Jun-2014 11:01:05	18-Jun-2014 11:01:11	4043.02	4040.72
EMXV	50	18-Jun-2014 11:01:11	18-Jun-2014 11:01:44	4040.72	4029.18
EMXV	53	18-Jun-2014 11:01:44	18-Jun-2014 11:01:52	4029.18	4026.31
EMXV	55	18-Jun-2014 11:01:52	18-Jun-2014 11:23:00	4026.31	3566.35
EMXV	57	18-Jun-2014 11:23:00	18-Jun-2014 11:27:54	3566.35	3461.39
EMXV	60	18-Jun-2014 11:27:54	18-Jun-2014 11:28:00	3461.39	3459.12
EMXV	63	18-Jun-2014 11:28:00	18-Jun-2014 11:28:06	3459.12	3457.04
EMXV	65	18-Jun-2014 11:28:06	18-Jun-2014 11:28:14	3457.04	3454.36
EMXV	68	18-Jun-2014 11:28:14	18-Jun-2014 11:28:18	3454.36	3452.95
EMXV	70	18-Jun-2014 11:28:18	18-Jun-2014 11:28:21	3452.95	3451.62
EMXV	72	18-Jun-2014 11:28:21	18-Jun-2014 11:28:27	3451.62	3449.85
EMXV	75	18-Jun-2014 11:28:27	18-Jun-2014 11:28:32	3449.85	3447.87
EMXV	78	18-Jun-2014 11:28:32	18-Jun-2014 11:28:37	3447.87	3446.12
EMXV	80	18-Jun-2014 11:28:37	18-Jun-2014 11:28:42	3446.12	3444.39
EMXV	83	18-Jun-2014 11:28:42	18-Jun-2014 11:29:17	3444.39	3432.21
EMXV	85	18-Jun-2014 11:29:17	18-Jun-2014 11:29:23	3432.21	3430.19
EMXV	88	18-Jun-2014 11:29:23	18-Jun-2014 12:15:01	3430.19	2449.5
EMXV	90	18-Jun-2014 12:15:01	18-Jun-2014 14:10:07	2449.5	8.38
UFWB	133	18-Jun-2014 08:48:50	18-Jun-2014 10:16:26	6856.94	4994.97
UFWB	124.9	18-Jun-2014 10:16:26	18-Jun-2014 13:30:05	4994.97	843.43
UFWB	138.02	18-Jun-2014 13:30:05	18-Jun-2014 13:30:33	843.43	833.46
UFWB	133.67	18-Jun-2014 13:30:33	18-Jun-2014 14:10:07	833.46	8.38
UFWE	173	18-Jun-2014 08:48:50	18-Jun-2014 10:14:04	6856.94	5045.07
UFWE	177.26	18-Jun-2014 10:14:04	18-Jun-2014 13:29:50	5045.07	848.79
UFWE	189.4	18-Jun-2014 13:29:50	18-Jun-2014 14:10:07	848.79	8.38

UNWB	102	18-Jun-2014 08:48:50	18-Jun-2014 10:16:23	6856.94	4996.03
UNWB	94.63	18-Jun-2014 10:16:23	18-Jun-2014 13:30:02	4996.03	844.43
UNWB	105.26	18-Jun-2014 13:30:02	18-Jun-2014 13:30:36	844.43	832.36
UNWB	102.42	18-Jun-2014 13:30:36	18-Jun-2014 14:10:07	832.36	8.38
UNWE	142	18-Jun-2014 08:48:50	18-Jun-2014 10:14:14	6856.94	5041.63
UNWE	149.45	18-Jun-2014 10:14:14	18-Jun-2014 13:29:59	5041.63	845.68
UNWE	170.68	18-Jun-2014 13:29:59	18-Jun-2014 14:10:07	845.68	8.38
WINB	37.61	18-Jun-2014 08:48:50	18-Jun-2014 10:16:43	6856.94	4989.05
WINB	31.6	18-Jun-2014 10:16:43	18-Jun-2014 13:44:35	4989.05	537.89
WINB	39.84	18-Jun-2014 13:44:35	18-Jun-2014 13:44:43	537.89	535.15
WINB	46	18-Jun-2014 13:44:43	18-Jun-2014 13:44:55	535.15	530.83
WINB	44.77	18-Jun-2014 13:44:55	18-Jun-2014 13:45:07	530.83	526.82
WINB	42.3	18-Jun-2014 13:45:07	18-Jun-2014 14:10:07	526.82	8.38
WINE	77.61	18-Jun-2014 08:48:50	18-Jun-2014 10:16:49	6856.94	4987.07
WINE	80.79	18-Jun-2014 10:16:49	18-Jun-2014 13:44:39	4987.07	536.38
WINE	84.2	18-Jun-2014 13:44:39	18-Jun-2014 14:10:07	536.38	8.38

All depth are at tool zero.

USI IBC SLG

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Main[6]:Up	6856.94	8.38

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 : 36.45m(119.58ft) to 44.03m(144.46ft)
MUD_N_FRP = 1.07
DFD = 1.01g/cm3(8.40lbm/gal)
CZMD median computed in free pipe normalization interval = 1.60 MRayl

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

IBC SLG - 0 PSI

Software Version

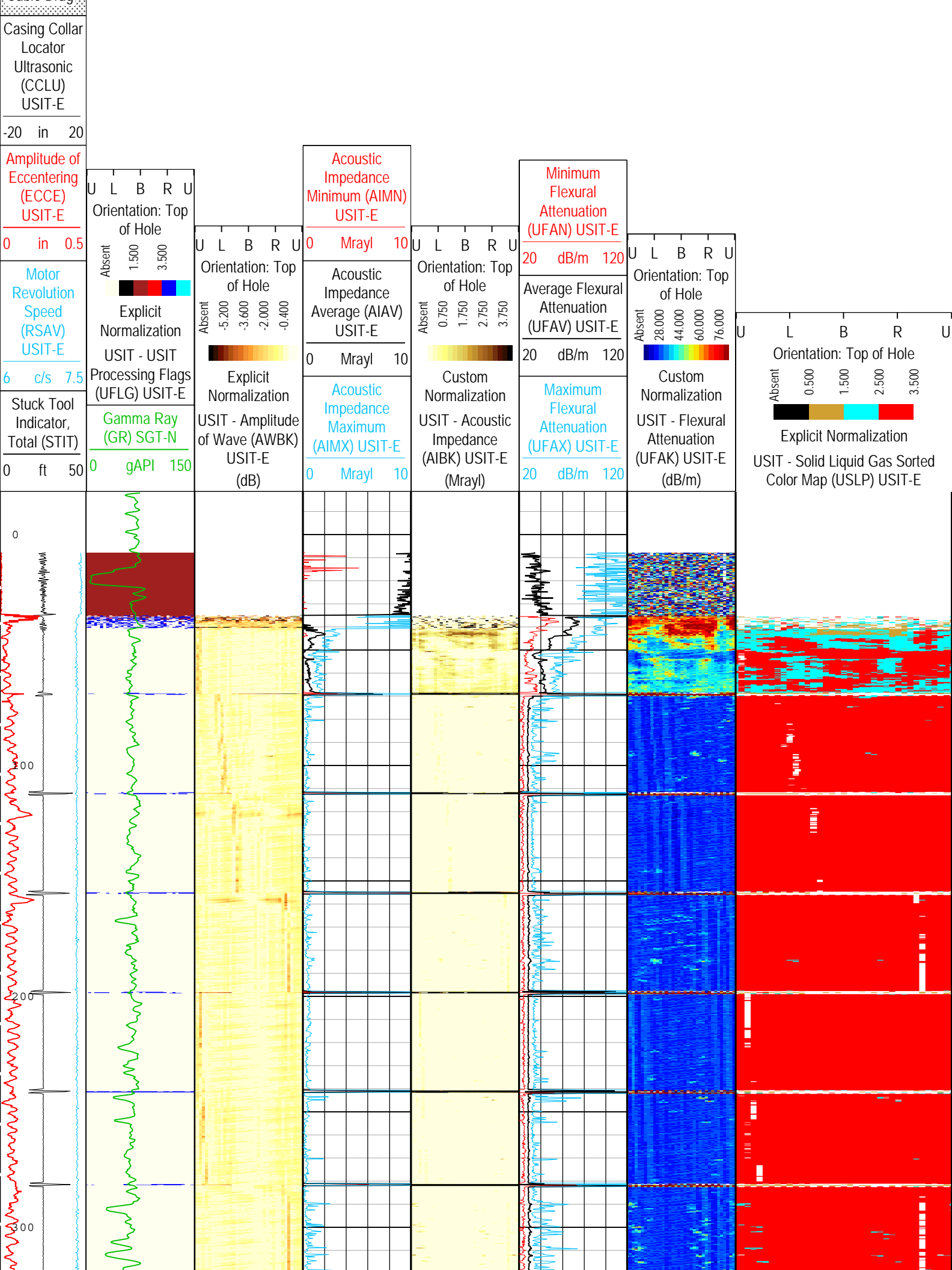
Acquisition System		Version	
MaxWell		4.0.9163.3000	
Application Patch		Patch-SP-10767_13393-4.0.9163.3001	
Computation	Description	Version	
DepthCorrection	DepthCorrection	4.0.9213.3000	
Tool Elements	Description	Software Version	Firmware Version
USI-SENSOR	USIT Transducer Element	4.0.9265.3000	DSP: v01.82
SGC-TB	Scintillation Gamma Cartridge	4.0.9033.3000	

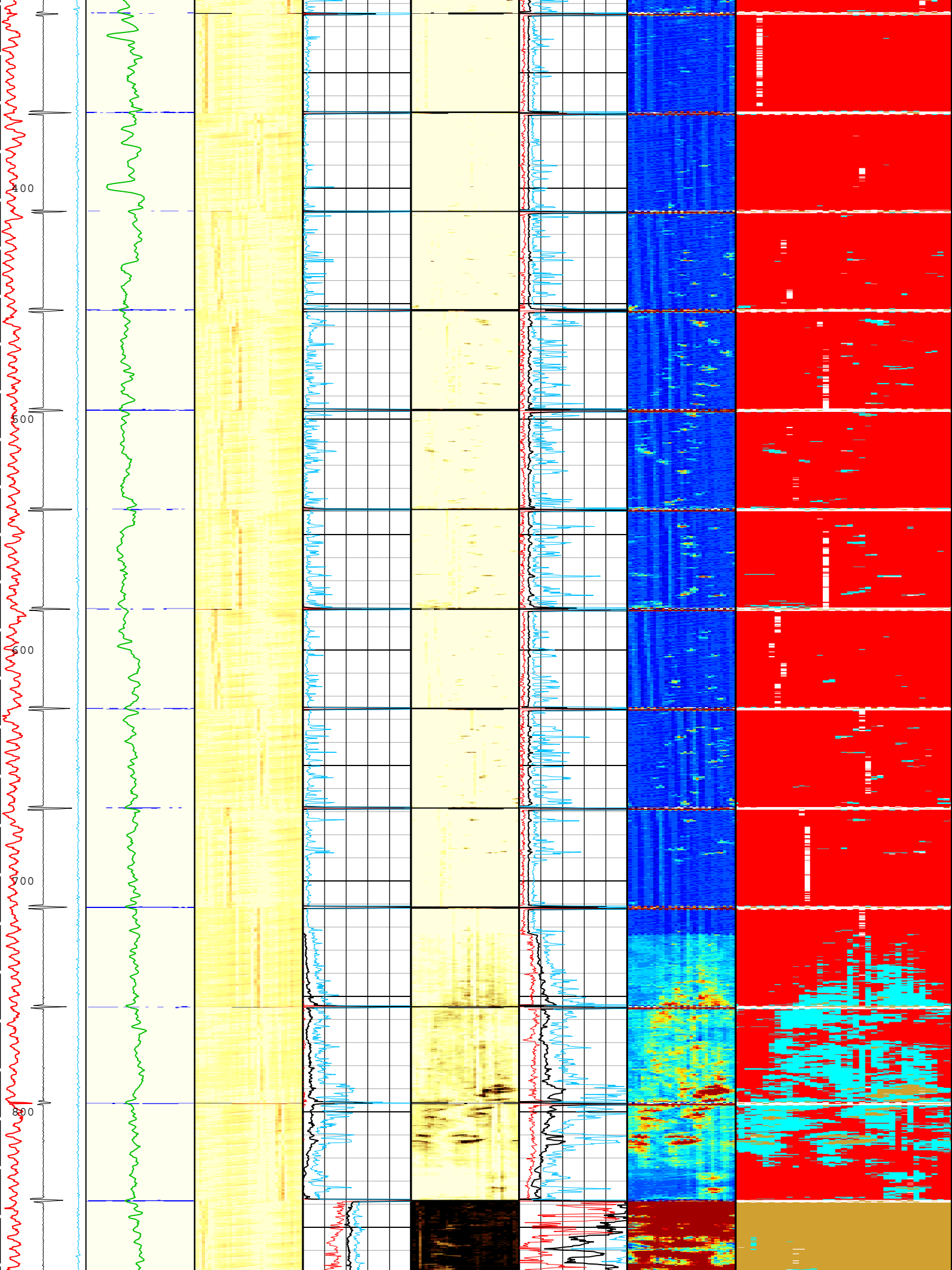
Log	Company:Anadarko Petroleum Company	Well:Spurling 14N-34HZ
		Run 1 : Main[6]:Up:S011

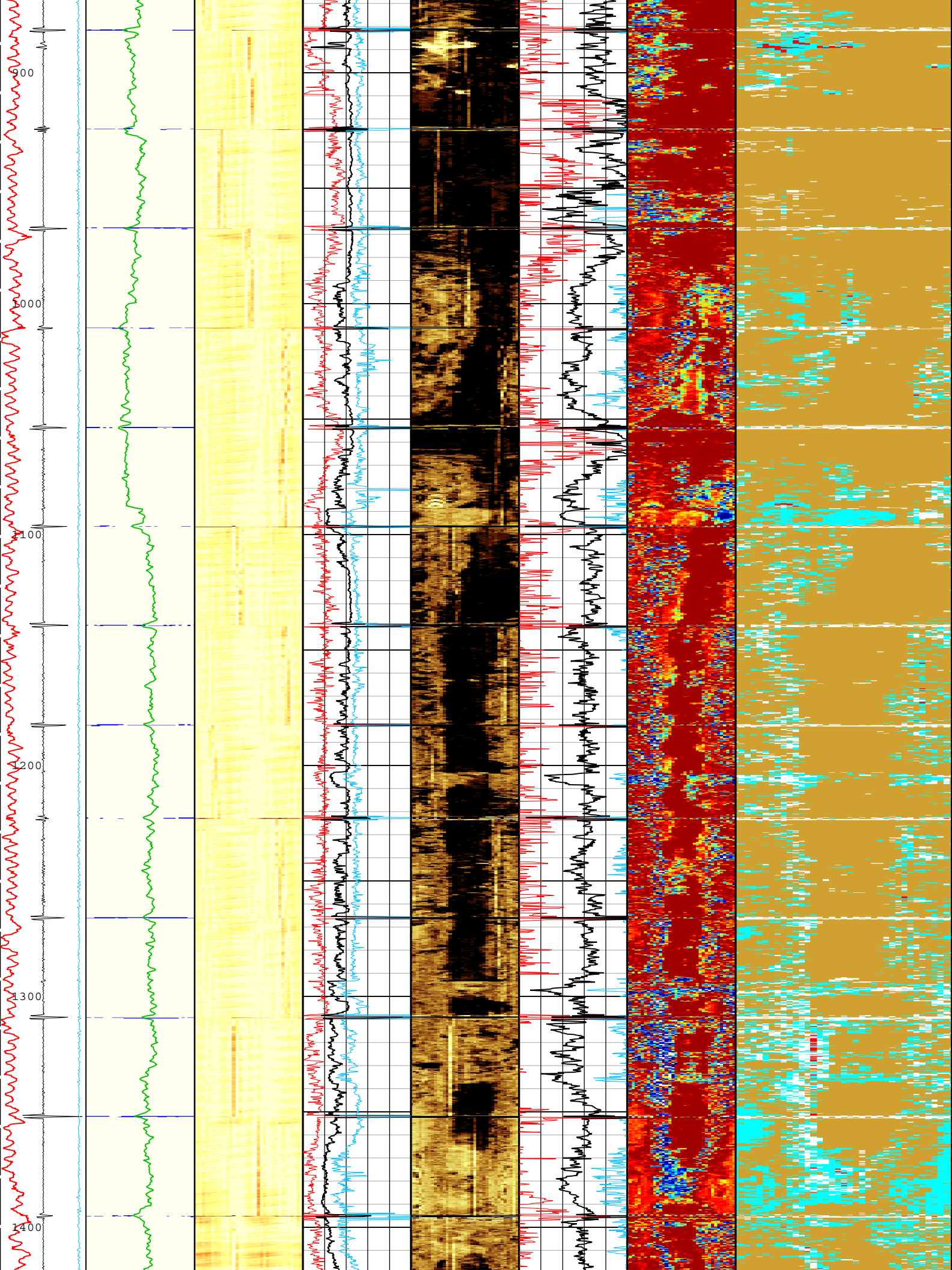
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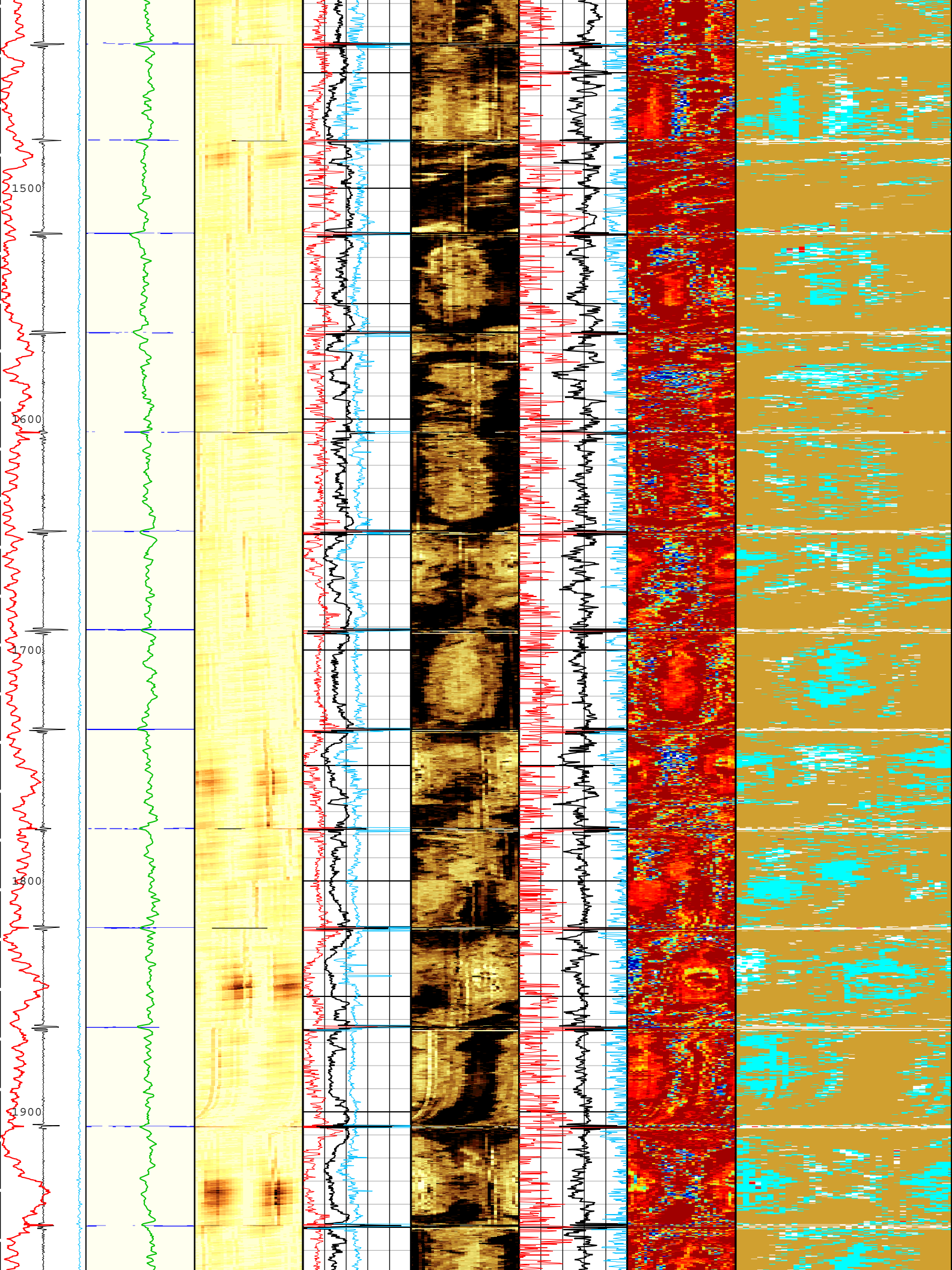
TIME_1900 - Time Marked every 60.00 (s)

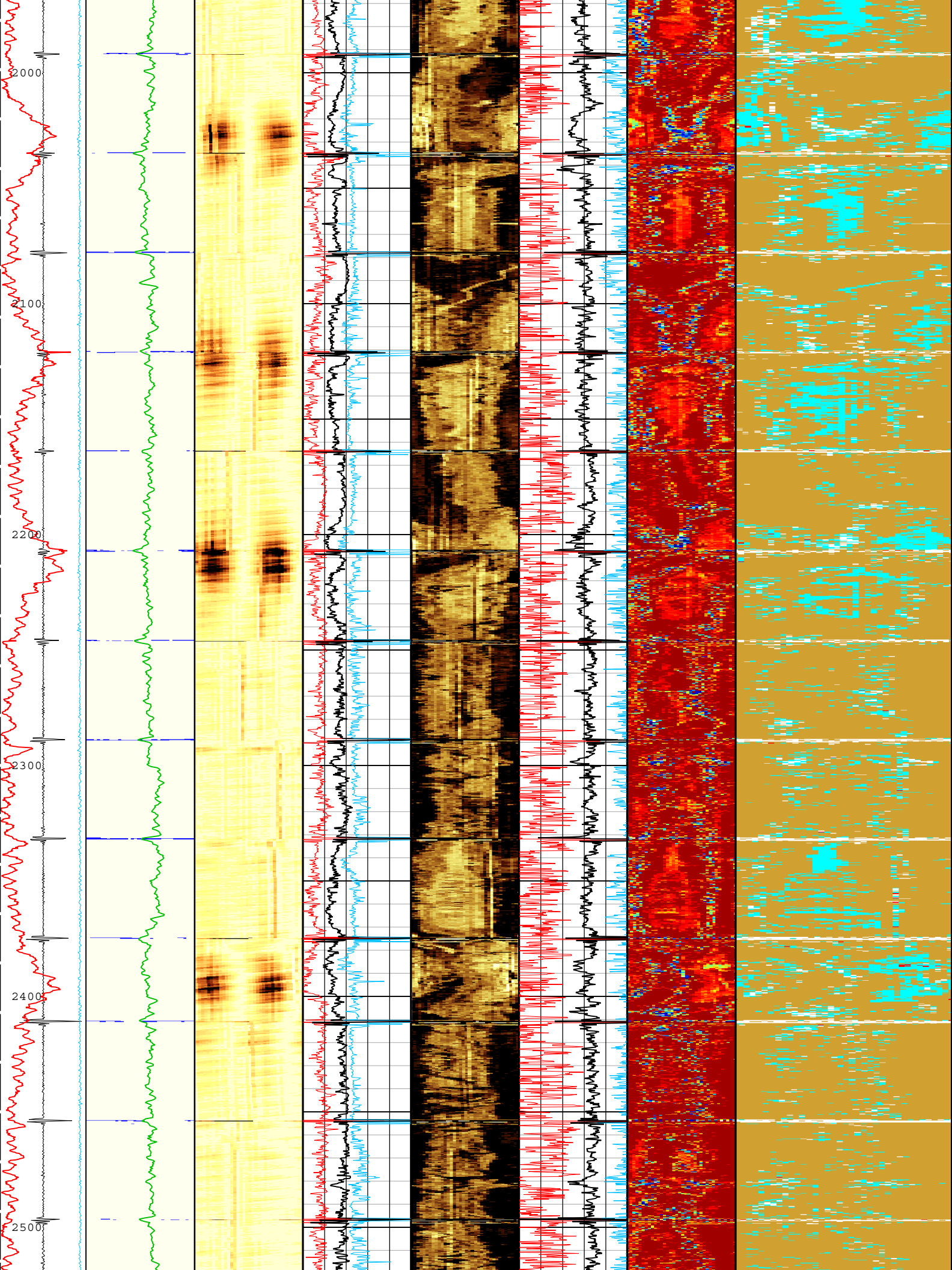
Cable Drag

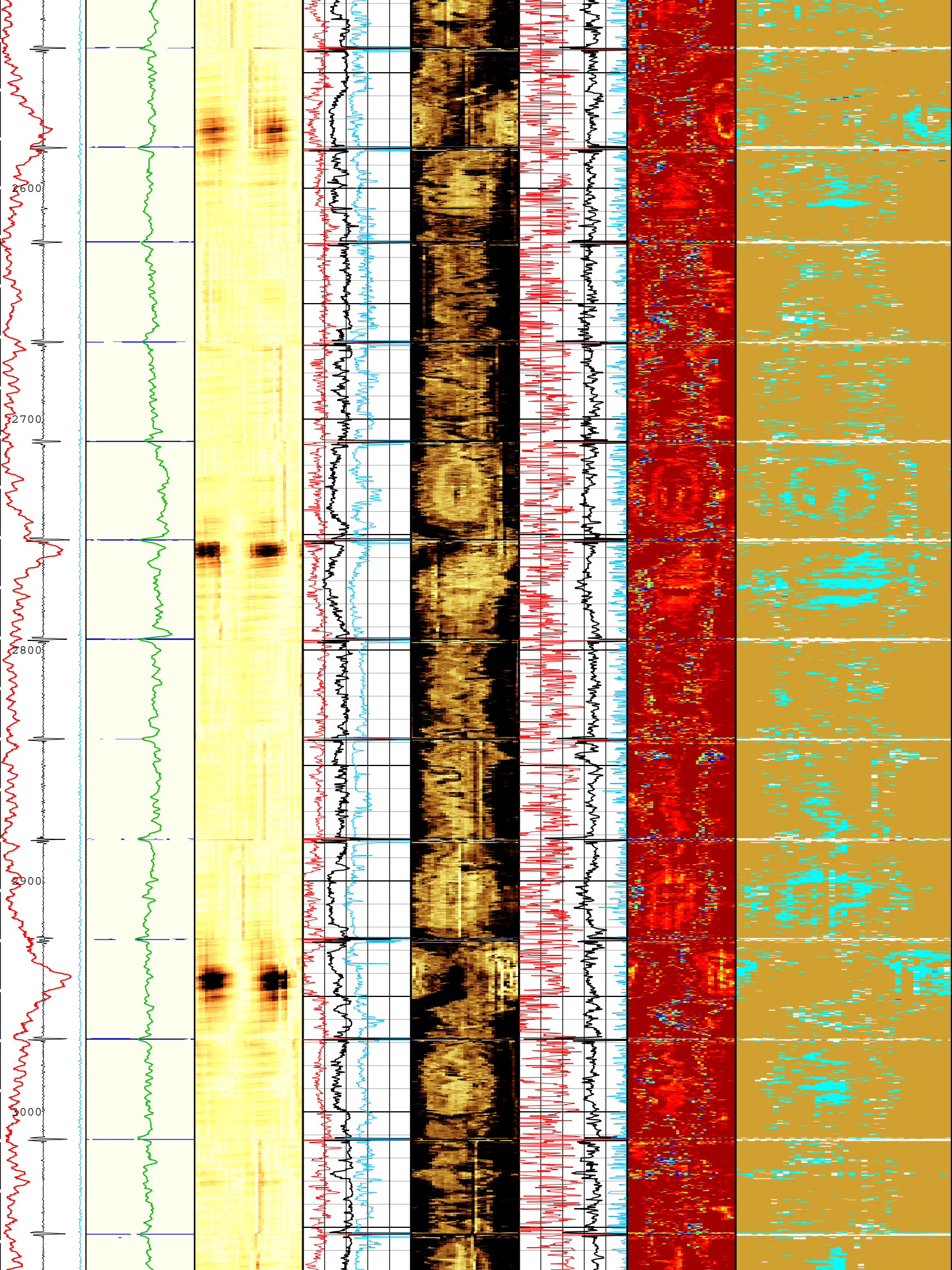


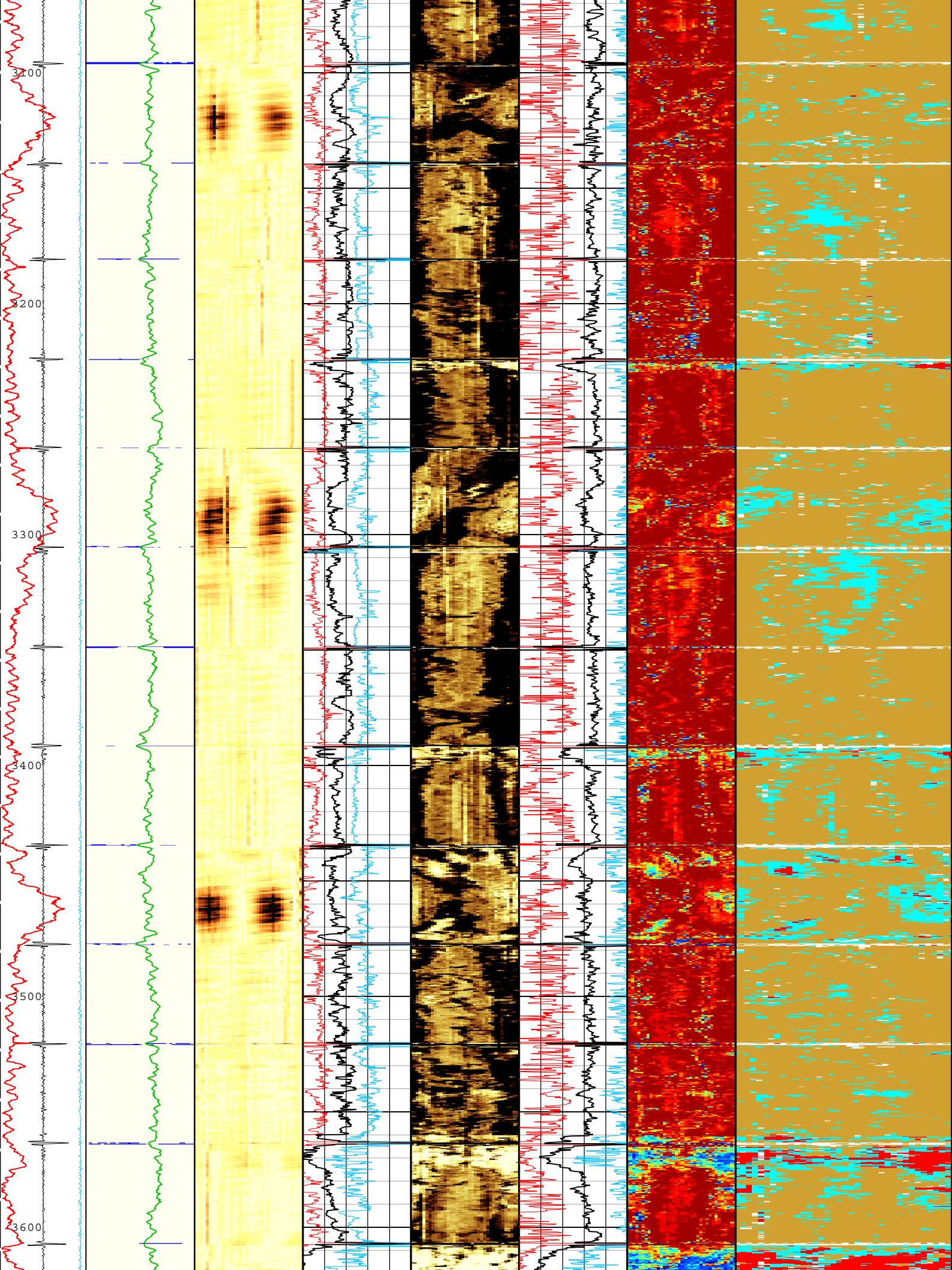


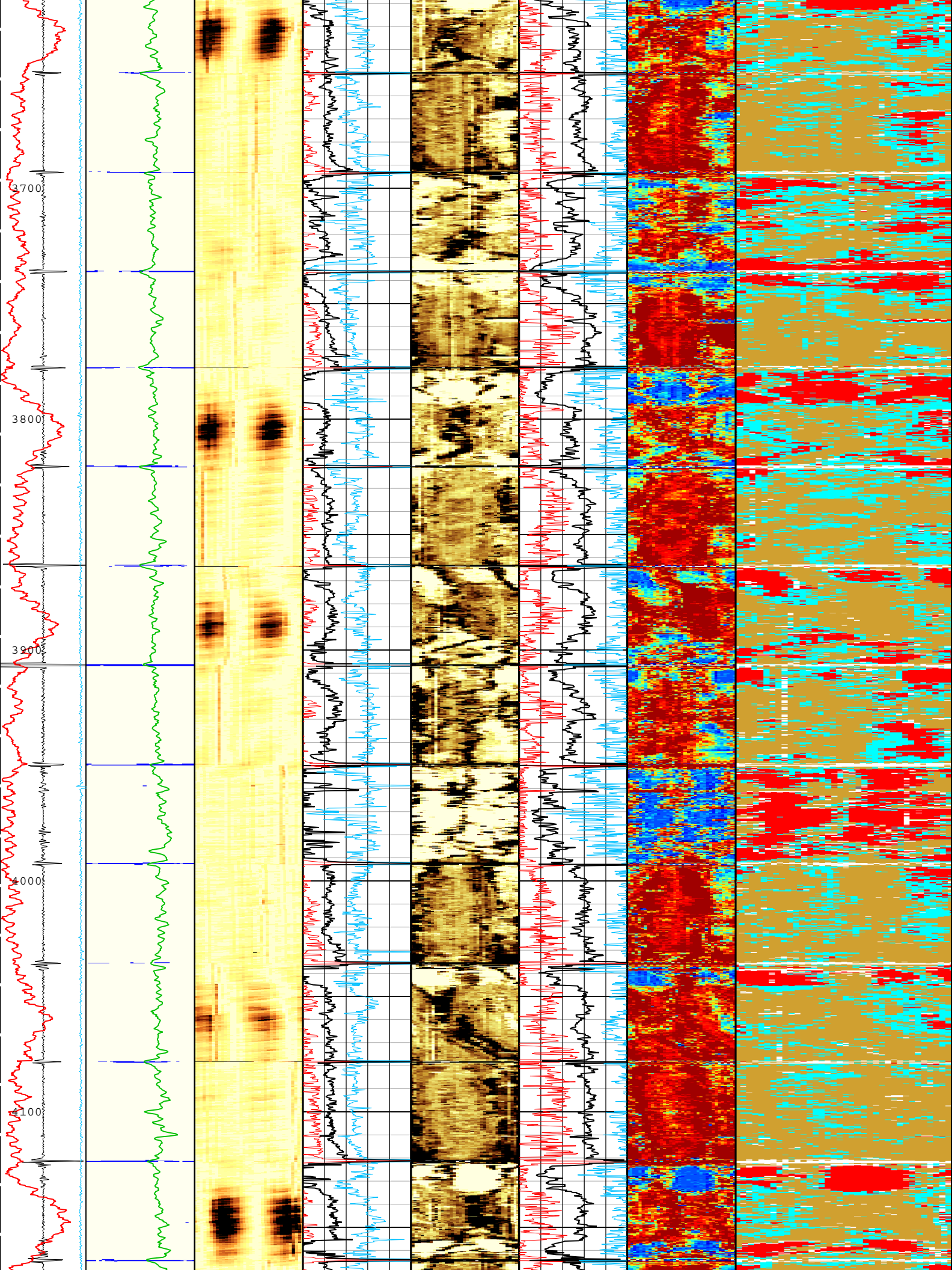


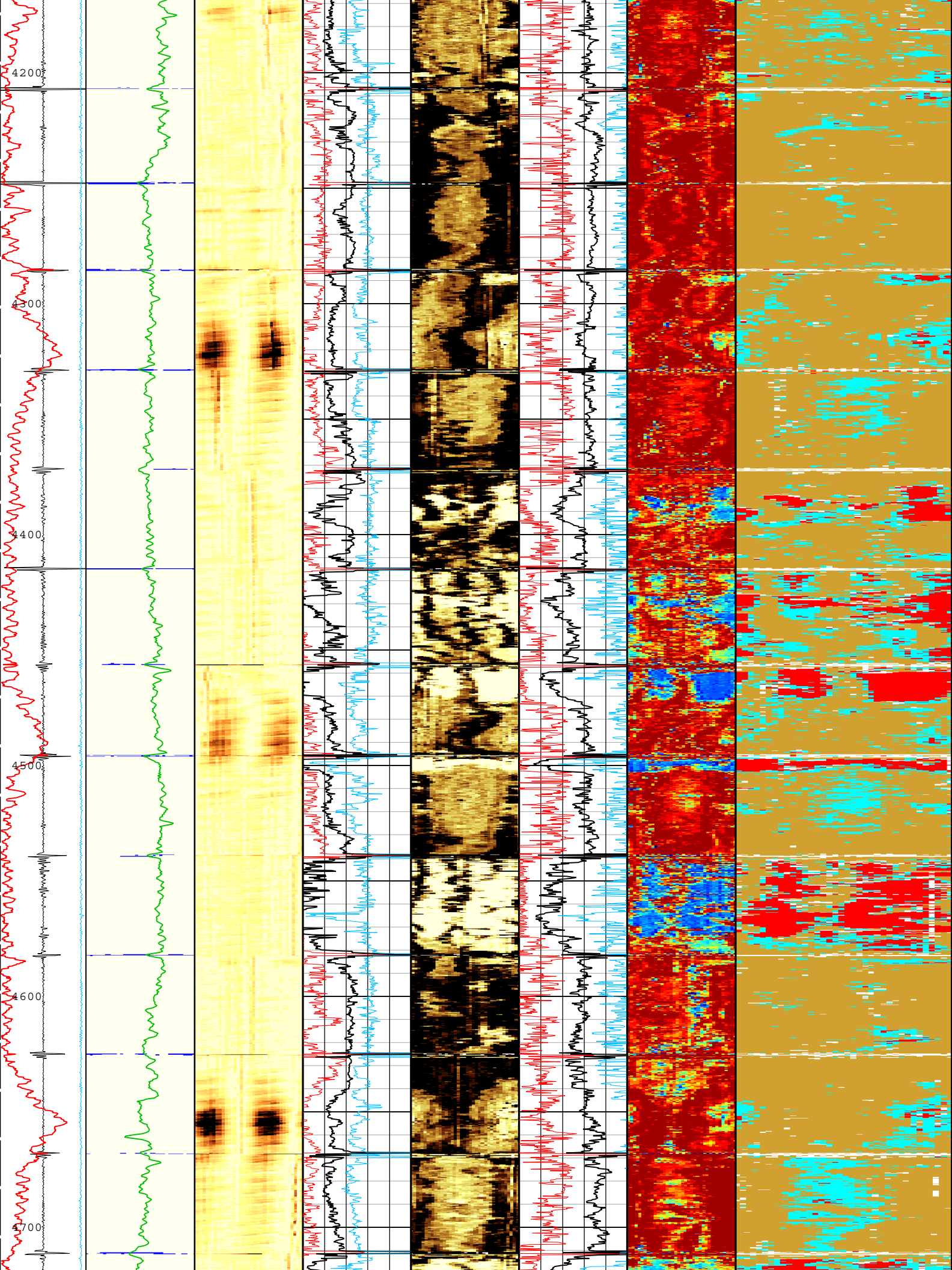


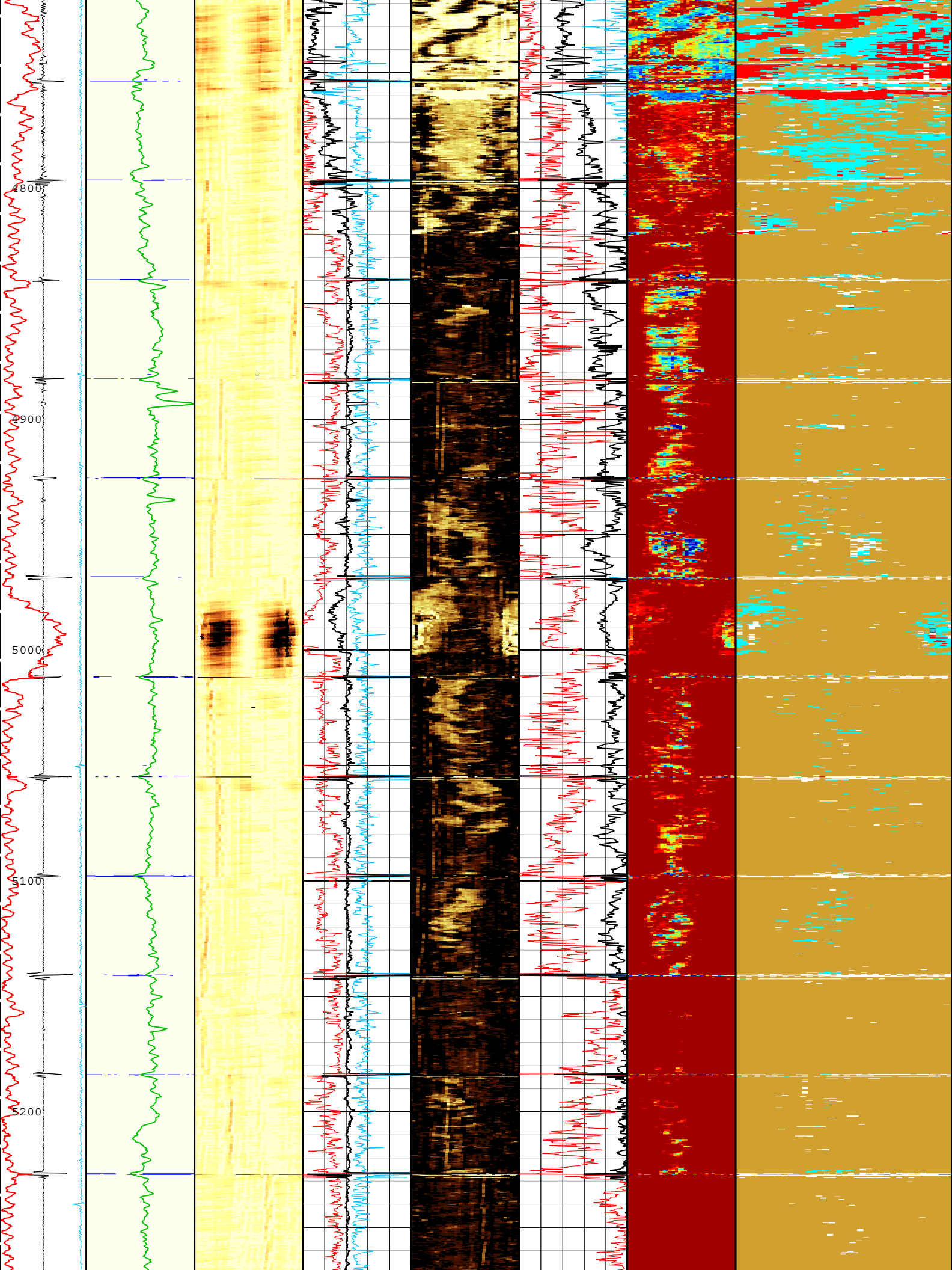


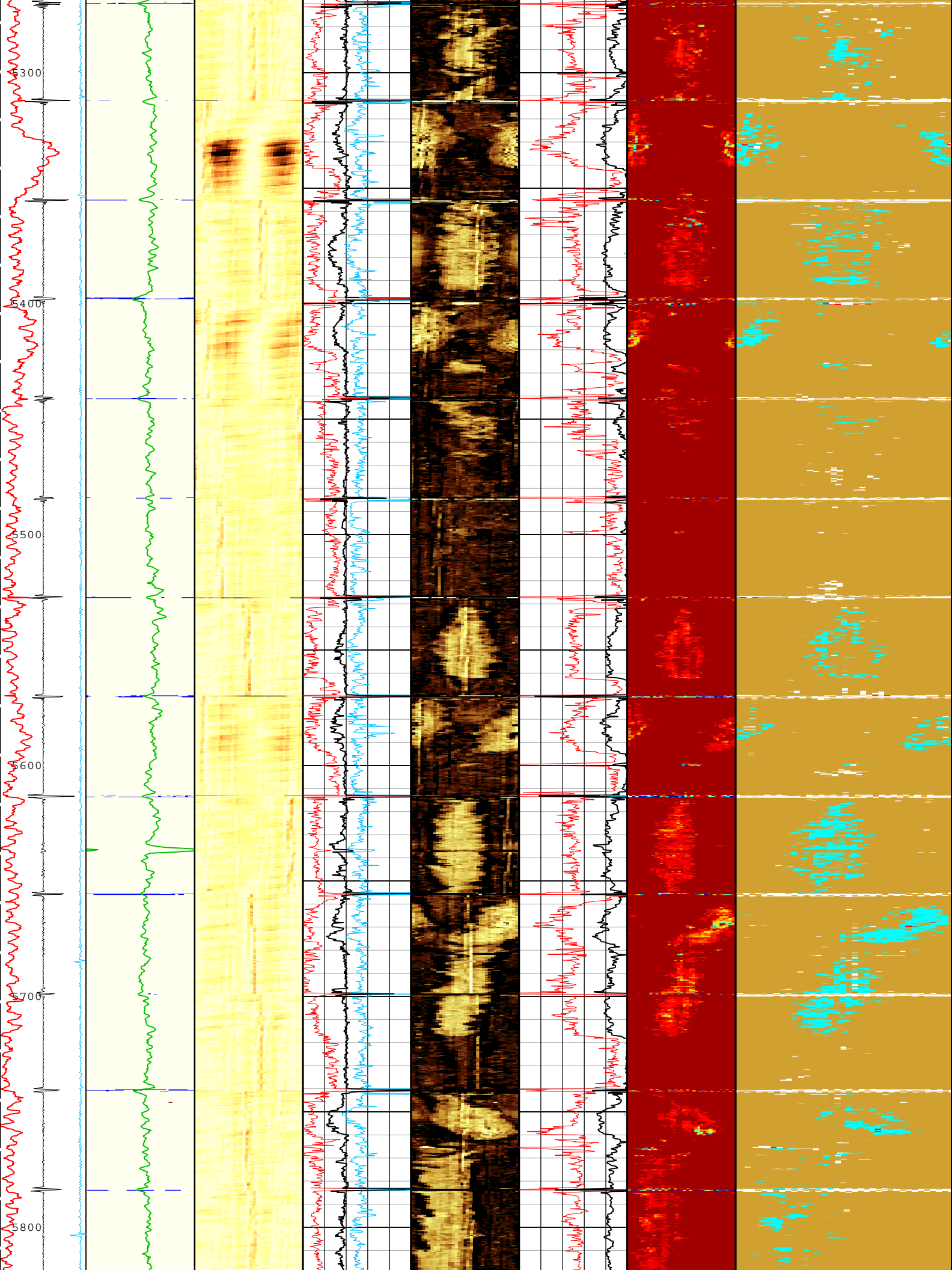


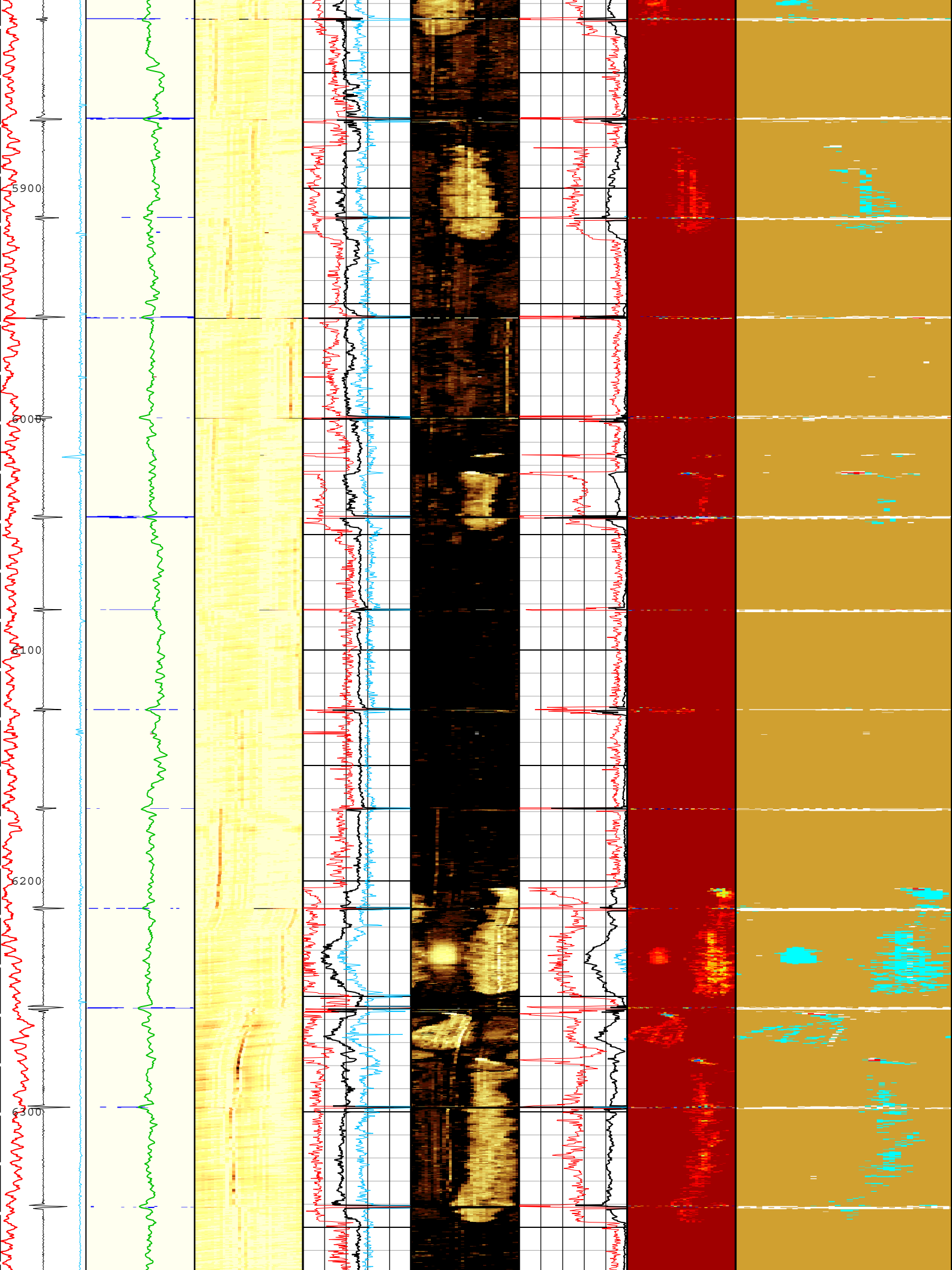


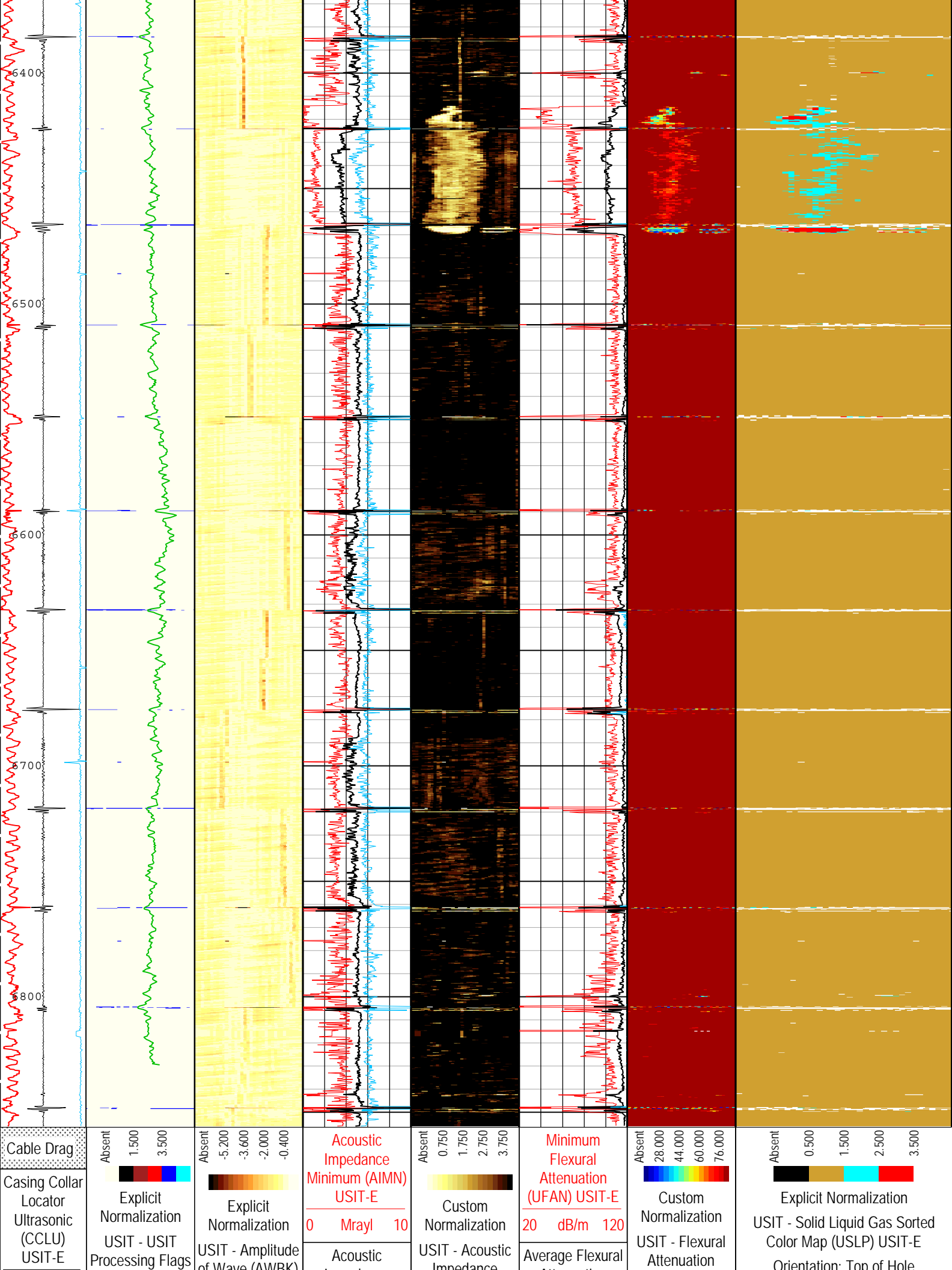












-20 in 20	(UFLG) USIT-E	Orientation: Top of Hole	Orientation: Top of Hole	Impedance Average (AIAV) USIT-E	Impedance (AIBK) USIT-E (Mrayl)	Attenuation (UFAV) USIT-E	(UFAK) USIT-E (dB/m)	Orientation: Top of Hole	Orientation: Top of Hole
Amplitude of Eccentering (ECCE) USIT-E	U L B R U	Orientation: Top of Hole	Orientation: Top of Hole	0 Mrayl 10	Orientation: Top of Hole	20 dB/m 120	Orientation: Top of Hole	U L B R U	U L B R U
0 in 0.5	Gamma Ray (GR) SGT-N	U L B R U	U L B R U	Acoustic Impedance Maximum (AIMX) USIT-E	U L B R U	Maximum Flexural Attenuation (UFAX) USIT-E	U L B R U		
Motor Revolution Speed (RSAV) USIT-E	0 gAPI 150			0 Mrayl 10		20 dB/m 120			
6 c/s 7.5									
Stuck Tool Indicator, Total (STIT)									
0 ft 50									

TIME_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Format: USI IBC SLG Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 18-Jun-2014 23:08:17

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
BARI	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	7852	ft
CDEN.1	Cement Density	USIT-E	0	lbm/gal
CDEN.2	Cement Density	SGT-N	16.69	lbm/gal
CMTY	Cement Type	USIT-E	Light Cement	
CTHILGR	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.352	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	10.01	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS	
GR_MULTIPLIER	Gamma Ray Multiplier	SGT-N	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	7.81	dB/m
IBC_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_BINPROC	ICE Bin Processing Depth Interval	USIT-E	0	ft
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	Depth Zoned	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.07	

MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
OCDI	Outer Casing Diameter	USIT-E	0	in
OCSH	Outer Casing Shoe	USIT-E	0	ft
OCWE	Outer Casing Weight	USIT-E	0	lbm/ft
RAPID_OPTION	Rapid Access Computation Option	USIT-E	Off	
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
SOGR	Standoff Distance of the Gamma Ray Tool	SGT-N	0	in
TCUB	T^3 Processing Level	USIT-E	Loop	
TD	Total Measured Depth	Borehole	7000	ft
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS	Tool Position: Centered or Eccentered	SGT-N	Eccentered	
UDFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0	Mrayl
UFAO	SIT Flexural Attenuation Offset	USIT-E	1.88	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
UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
UTHDP	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	1.6	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	0	1000
BS	8.75	1000	6856.5
MEAS_WLEN	22.5	0	6856.5

All depth are actual.

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	Time Zoned	dB
DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOTF	Distance between Opposite Transducer Faces	USIT-E	2.874	in
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1350	ft/h
TMUC	Type of Mud	USIT-E	BRI	
UFWB	Far Receiver Window Begin Time	USIT-E	Time Zoned	us
UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
UNWB	Near Receiver Window Begin Time	USIT-E	Time Zoned	us

UNWE	Near Receiver Window End Time	USIT-E	Time Zoned	us
USFR	Ultrasonic Sampling Frequency	USIT-E	500000	Hz
USI_UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
USI_UWKM	USIT Working Mode	USIT-E	10 deg at 3.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	6855	ft
USSP	Ultrasonic Service	USIT-E	IBC	
UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	3.0 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)
AGMX	18	18-Jun-2014 08:48:50	18-Jun-2014 09:13:48	6856.94	6326.51
AGMX	16	18-Jun-2014 09:13:48	18-Jun-2014 09:14:04	6326.51	6321.04
AGMX	14	18-Jun-2014 09:14:04	18-Jun-2014 09:14:54	6321.04	6303.01
AGMX	10	18-Jun-2014 09:14:54	18-Jun-2014 09:15:24	6303.01	6292.23
AGMX	8	18-Jun-2014 09:15:24	18-Jun-2014 09:19:14	6292.23	6210.4
AGMX	18	18-Jun-2014 09:19:14	18-Jun-2014 09:39:37	6210.4	5774.39
AGMX	24	18-Jun-2014 09:39:37	18-Jun-2014 09:40:14	5774.39	5761.08
AGMX	48	18-Jun-2014 09:40:14	18-Jun-2014 14:10:07	5761.08	8.38
EMXV	75	18-Jun-2014 08:48:50	18-Jun-2014 09:10:24	6856.94	6399.62
EMXV	70	18-Jun-2014 09:10:24	18-Jun-2014 09:10:38	6399.62	6394.49
EMXV	68	18-Jun-2014 09:10:38	18-Jun-2014 09:10:48	6394.49	6391
EMXV	65	18-Jun-2014 09:10:48	18-Jun-2014 09:10:55	6391	6388.54
EMXV	62	18-Jun-2014 09:10:55	18-Jun-2014 09:11:02	6388.54	6385.91
EMXV	60	18-Jun-2014 09:11:02	18-Jun-2014 09:11:14	6385.91	6381.72
EMXV	58	18-Jun-2014 09:11:14	18-Jun-2014 09:11:32	6381.72	6375.5
EMXV	56	18-Jun-2014 09:11:32	18-Jun-2014 09:12:17	6375.5	6359.24
EMXV	52	18-Jun-2014 09:12:17	18-Jun-2014 09:12:22	6359.24	6357.39
EMXV	48	18-Jun-2014 09:12:22	18-Jun-2014 09:12:28	6357.39	6355.51
EMXV	46	18-Jun-2014 09:12:28	18-Jun-2014 09:12:32	6355.51	6353.78
EMXV	42	18-Jun-2014 09:12:32	18-Jun-2014 09:12:46	6353.78	6348.75
EMXV	38	18-Jun-2014 09:12:46	18-Jun-2014 09:13:05	6348.75	6342.21
EMXV	35	18-Jun-2014 09:13:05	18-Jun-2014 09:13:18	6342.21	6337.41
EMXV	30	18-Jun-2014 09:13:18	18-Jun-2014 09:13:28	6337.41	6333.92
EMXV	26	18-Jun-2014 09:13:28	18-Jun-2014 09:13:35	6333.92	6331.31
EMXV	20	18-Jun-2014 09:13:35	18-Jun-2014 09:14:15	6331.31	6316.82
EMXV	16	18-Jun-2014 09:14:15	18-Jun-2014 09:14:23	6316.82	6314.13
EMXV	14	18-Jun-2014 09:14:23	18-Jun-2014 09:14:32	6314.13	6310.8
EMXV	10	18-Jun-2014 09:14:32	18-Jun-2014 09:21:49	6310.8	6155
EMXV	8	18-Jun-2014 09:21:49	18-Jun-2014 09:22:23	6155	6142.82
EMXV	5	18-Jun-2014 09:22:23	18-Jun-2014 09:24:39	6142.82	6094.3
EMXV	8	18-Jun-2014 09:24:39	18-Jun-2014 09:24:47	6094.3	6091.71
EMXV	3	18-Jun-2014 09:24:47	18-Jun-2014 09:32:02	6091.71	5936.33
EMXV	1	18-Jun-2014 09:32:02	18-Jun-2014 09:32:30	5936.33	5926.08

EMXV	3	18-Jun-2014 09:32:30	18-Jun-2014 09:32:55	5926.08	5917.3
EMXV	1	18-Jun-2014 09:32:55	18-Jun-2014 10:00:37	5917.3	5328.2
EMXV	3	18-Jun-2014 10:00:37	18-Jun-2014 10:01:02	5328.2	5319.71
EMXV	1	18-Jun-2014 10:01:02	18-Jun-2014 10:12:17	5319.71	5082.63
EMXV	0	18-Jun-2014 10:12:17	18-Jun-2014 10:32:20	5082.63	4654.44
EMXV	5	18-Jun-2014 10:32:20	18-Jun-2014 10:32:31	4654.44	4650.53
EMXV	8	18-Jun-2014 10:32:31	18-Jun-2014 10:33:06	4650.53	4638.38
EMXV	10	18-Jun-2014 10:33:06	18-Jun-2014 10:35:57	4638.38	4577.74
EMXV	8	18-Jun-2014 10:35:57	18-Jun-2014 10:36:05	4577.74	4574.67
EMXV	6	18-Jun-2014 10:36:05	18-Jun-2014 10:48:37	4574.67	4309.4
EMXV	8	18-Jun-2014 10:48:37	18-Jun-2014 10:56:00	4309.4	4152.73
EMXV	9	18-Jun-2014 10:56:00	18-Jun-2014 10:56:16	4152.73	4147.08
EMXV	10	18-Jun-2014 10:56:16	18-Jun-2014 10:56:21	4147.08	4145.24
EMXV	12	18-Jun-2014 10:56:21	18-Jun-2014 10:56:27	4145.24	4143.17
EMXV	14	18-Jun-2014 10:56:27	18-Jun-2014 10:56:32	4143.17	4141.42
EMXV	16	18-Jun-2014 10:56:32	18-Jun-2014 10:56:37	4141.42	4139.62
EMXV	18	18-Jun-2014 10:56:37	18-Jun-2014 10:56:43	4139.62	4137.37
EMXV	20	18-Jun-2014 10:56:43	18-Jun-2014 10:59:35	4137.37	4075.47
EMXV	22	18-Jun-2014 10:59:35	18-Jun-2014 10:59:42	4075.47	4072.81
EMXV	24	18-Jun-2014 10:59:42	18-Jun-2014 10:59:58	4072.81	4067.27
EMXV	26	18-Jun-2014 10:59:58	18-Jun-2014 11:00:19	4067.27	4059.59
EMXV	28	18-Jun-2014 11:00:19	18-Jun-2014 11:00:25	4059.59	4057.27
EMXV	30	18-Jun-2014 11:00:25	18-Jun-2014 11:00:32	4057.27	4054.97
EMXV	33	18-Jun-2014 11:00:32	18-Jun-2014 11:00:37	4054.97	4053
EMXV	36	18-Jun-2014 11:00:37	18-Jun-2014 11:00:45	4053	4050.27
EMXV	40	18-Jun-2014 11:00:45	18-Jun-2014 11:00:56	4050.27	4046.25
EMXV	43	18-Jun-2014 11:00:56	18-Jun-2014 11:01:05	4046.25	4043.02
EMXV	47	18-Jun-2014 11:01:05	18-Jun-2014 11:01:11	4043.02	4040.72
EMXV	50	18-Jun-2014 11:01:11	18-Jun-2014 11:01:44	4040.72	4029.18
EMXV	53	18-Jun-2014 11:01:44	18-Jun-2014 11:01:52	4029.18	4026.31
EMXV	55	18-Jun-2014 11:01:52	18-Jun-2014 11:23:00	4026.31	3566.35
EMXV	57	18-Jun-2014 11:23:00	18-Jun-2014 11:27:54	3566.35	3461.39
EMXV	60	18-Jun-2014 11:27:54	18-Jun-2014 11:28:00	3461.39	3459.12
EMXV	63	18-Jun-2014 11:28:00	18-Jun-2014 11:28:06	3459.12	3457.04
EMXV	65	18-Jun-2014 11:28:06	18-Jun-2014 11:28:14	3457.04	3454.36
EMXV	68	18-Jun-2014 11:28:14	18-Jun-2014 11:28:18	3454.36	3452.95
EMXV	70	18-Jun-2014 11:28:18	18-Jun-2014 11:28:21	3452.95	3451.62
EMXV	72	18-Jun-2014 11:28:21	18-Jun-2014 11:28:27	3451.62	3449.85
EMXV	75	18-Jun-2014 11:28:27	18-Jun-2014 11:28:32	3449.85	3447.87
EMXV	78	18-Jun-2014 11:28:32	18-Jun-2014 11:28:37	3447.87	3446.12
EMXV	80	18-Jun-2014 11:28:37	18-Jun-2014 11:28:42	3446.12	3444.39
EMXV	83	18-Jun-2014 11:28:42	18-Jun-2014 11:29:17	3444.39	3432.21
EMXV	85	18-Jun-2014 11:29:17	18-Jun-2014 11:29:23	3432.21	3430.19
EMXV	88	18-Jun-2014 11:29:23	18-Jun-2014 12:15:01	3430.19	2449.5

EMXV	90	18-Jun-2014 12:15:01	18-Jun-2014 14:10:07	2449.5	8.38
UFWB	133	18-Jun-2014 08:48:50	18-Jun-2014 10:16:26	6856.94	4994.97
UFWB	124.9	18-Jun-2014 10:16:26	18-Jun-2014 13:30:05	4994.97	843.43
UFWB	138.02	18-Jun-2014 13:30:05	18-Jun-2014 13:30:33	843.43	833.46
UFWB	133.67	18-Jun-2014 13:30:33	18-Jun-2014 14:10:07	833.46	8.38
UFWE	173	18-Jun-2014 08:48:50	18-Jun-2014 10:14:04	6856.94	5045.07
UFWE	177.26	18-Jun-2014 10:14:04	18-Jun-2014 13:29:50	5045.07	848.79
UFWE	189.4	18-Jun-2014 13:29:50	18-Jun-2014 14:10:07	848.79	8.38
UNWB	102	18-Jun-2014 08:48:50	18-Jun-2014 10:16:23	6856.94	4996.03
UNWB	94.63	18-Jun-2014 10:16:23	18-Jun-2014 13:30:02	4996.03	844.43
UNWB	105.26	18-Jun-2014 13:30:02	18-Jun-2014 13:30:36	844.43	832.36
UNWB	102.42	18-Jun-2014 13:30:36	18-Jun-2014 14:10:07	832.36	8.38
UNWE	142	18-Jun-2014 08:48:50	18-Jun-2014 10:14:14	6856.94	5041.63
UNWE	149.45	18-Jun-2014 10:14:14	18-Jun-2014 13:29:59	5041.63	845.68
UNWE	170.68	18-Jun-2014 13:29:59	18-Jun-2014 14:10:07	845.68	8.38
WINB	37.61	18-Jun-2014 08:48:50	18-Jun-2014 10:16:43	6856.94	4989.05
WINB	31.6	18-Jun-2014 10:16:43	18-Jun-2014 13:44:35	4989.05	537.89
WINB	39.84	18-Jun-2014 13:44:35	18-Jun-2014 13:44:43	537.89	535.15
WINB	46	18-Jun-2014 13:44:43	18-Jun-2014 13:44:55	535.15	530.83
WINB	44.77	18-Jun-2014 13:44:55	18-Jun-2014 13:45:07	530.83	526.82
WINB	42.3	18-Jun-2014 13:45:07	18-Jun-2014 14:10:07	526.82	8.38
WINE	77.61	18-Jun-2014 08:48:50	18-Jun-2014 10:16:49	6856.94	4987.07
WINE	80.79	18-Jun-2014 10:16:49	18-Jun-2014 13:44:39	4987.07	536.38
WINE	84.2	18-Jun-2014 13:44:39	18-Jun-2014 14:10:07	536.38	8.38

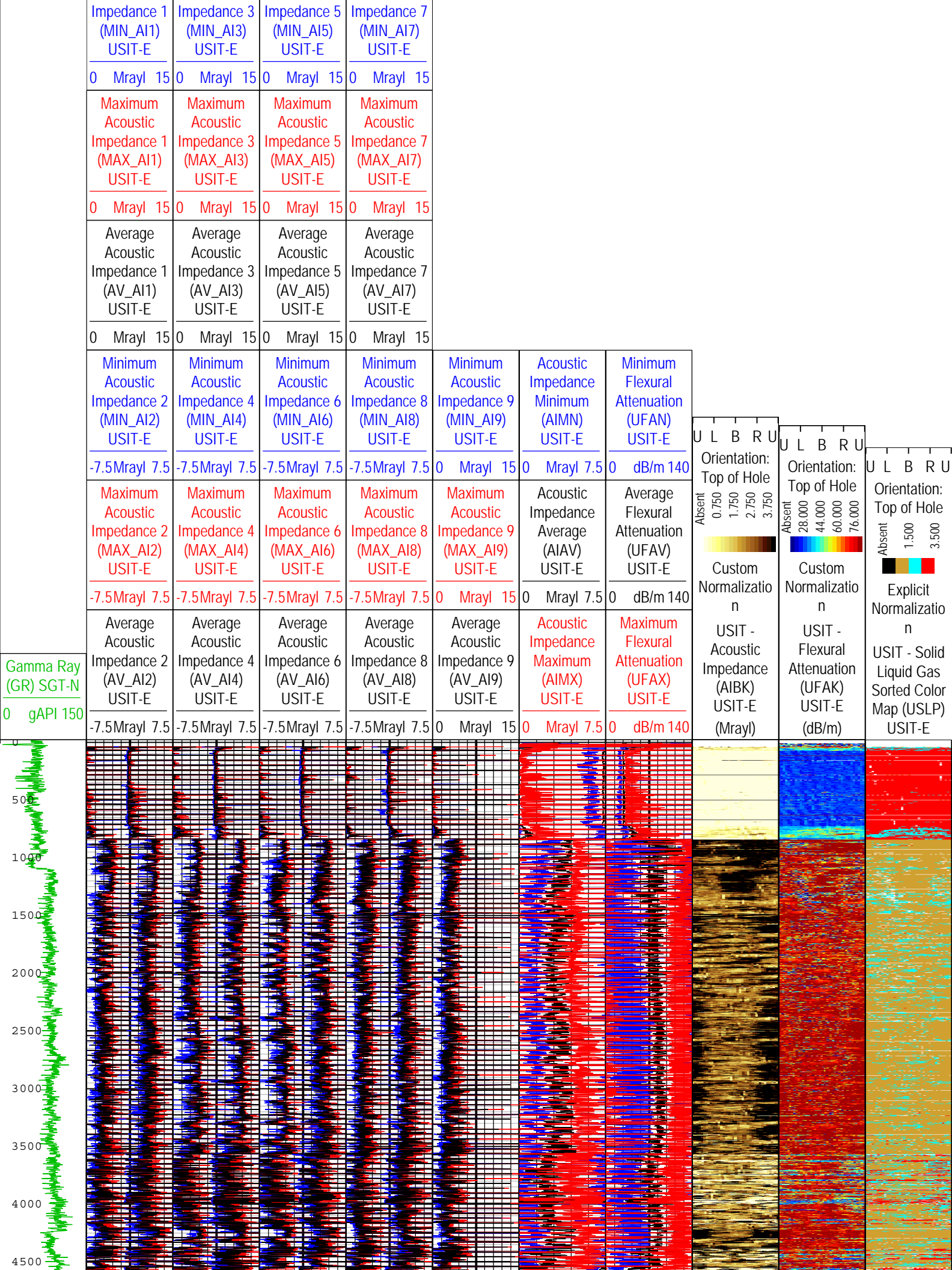
All depth are at tool zero.

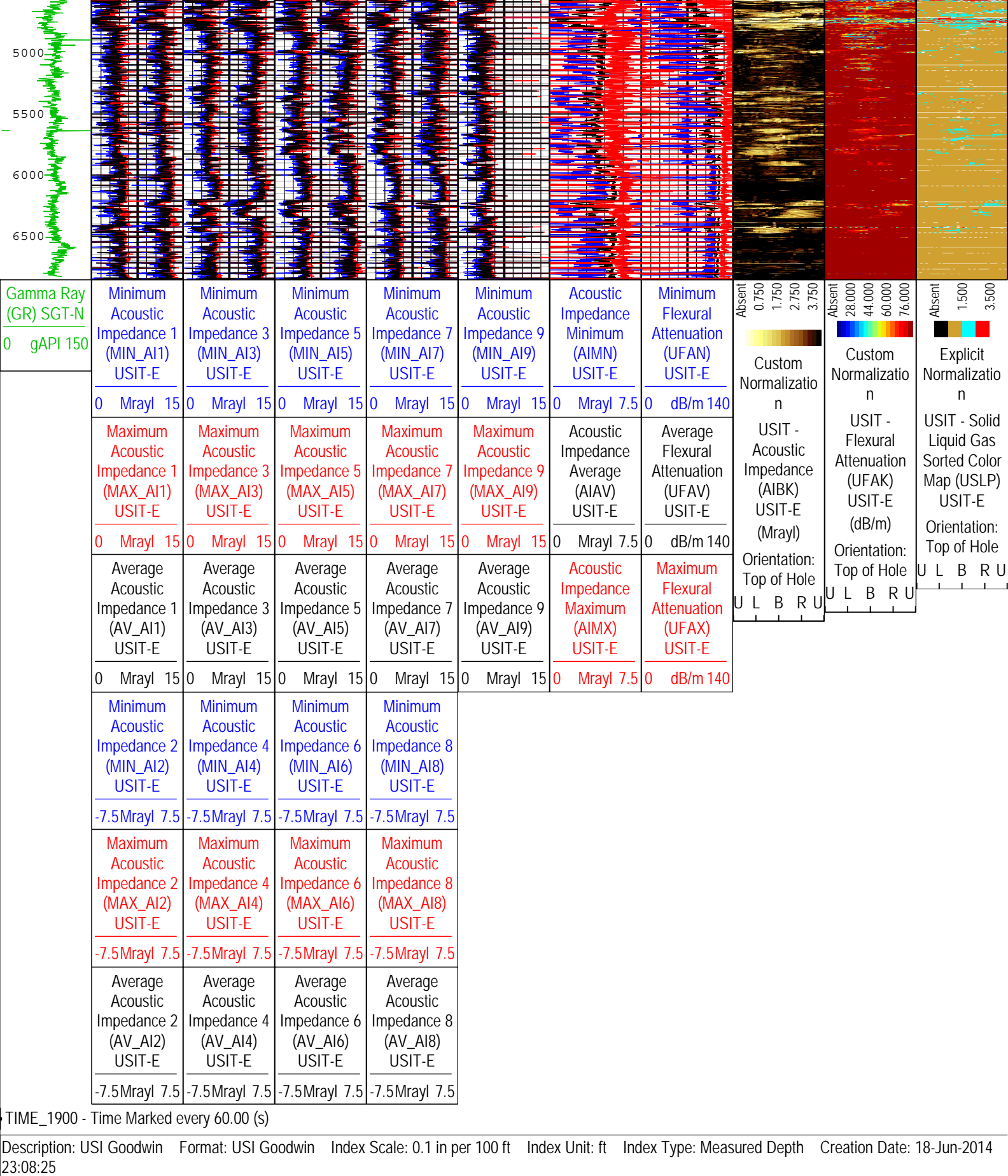
Import (3) of USI Goodwin			
USIT - Fluid Properties Measurement			
Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Main[6]:Up	6856.94	8.38
Fluid Velocity = "Automatic". CFVL equals DFSL channel			
Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)
Mud Impedance = "FreePipe Norm." Free Pipe normalization zone is : 36.45m(119.58ft) to 44.03m(144.46ft) MUD_N_FRP = 1.07 DFD = 1.01g/cm3(8.40lbm/gal) CZMD median computed in free pipe normalization interval = 1.60 MRayl			
Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
Run 1			
IBC Goodwin Compressed			
Log	Company:Anadarko Petroleum Company		Well:Spurling 14N-34HZ Run 1 : Main[6]:Up:S011

Description: USI Goodwin Format: USI Goodwin Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 18-Jun-2014 23:08:25

TIME_1900 - Time Marked every 60.00 (s)

Minimum Acoustic	Minimum Acoustic	Minimum Acoustic	Minimum Acoustic
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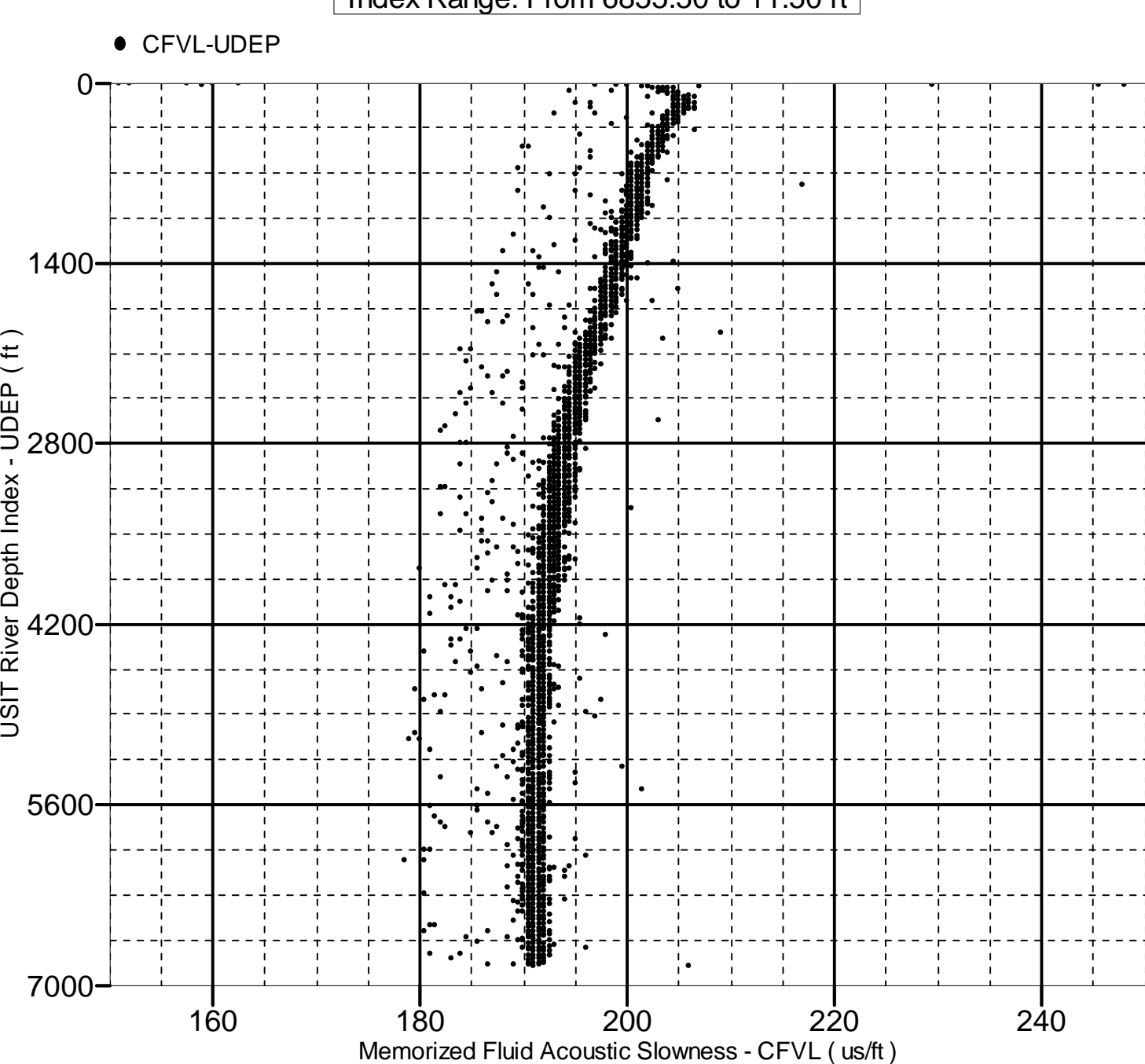




Fluid Acoustic Slowness vs Depth

2D Cross Plot

Index Range: From 6855.50 to 11150 ft



XYZ

Company:Anadarko Petroleum Company

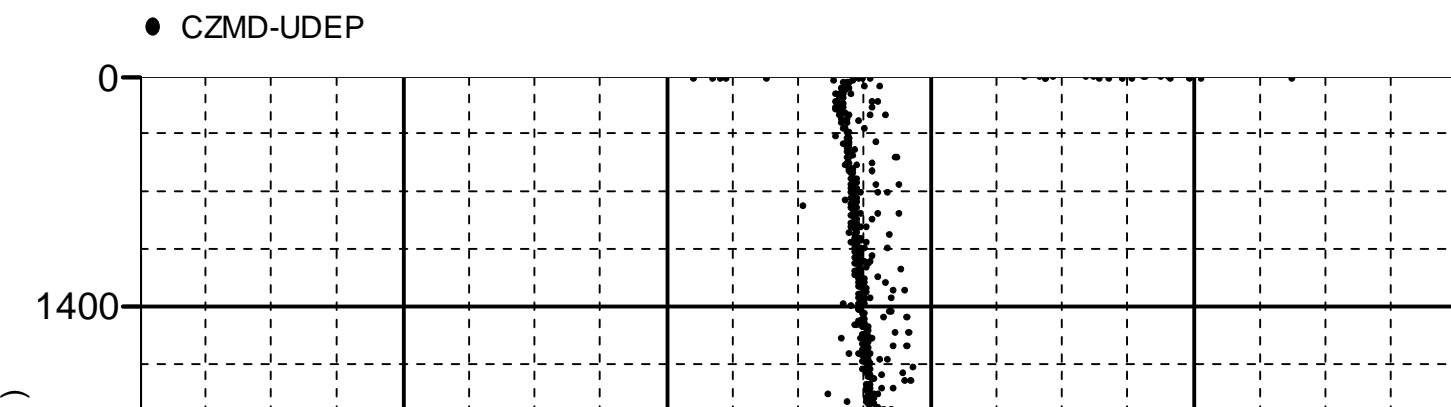
Well:Spurling 14N-34HZ

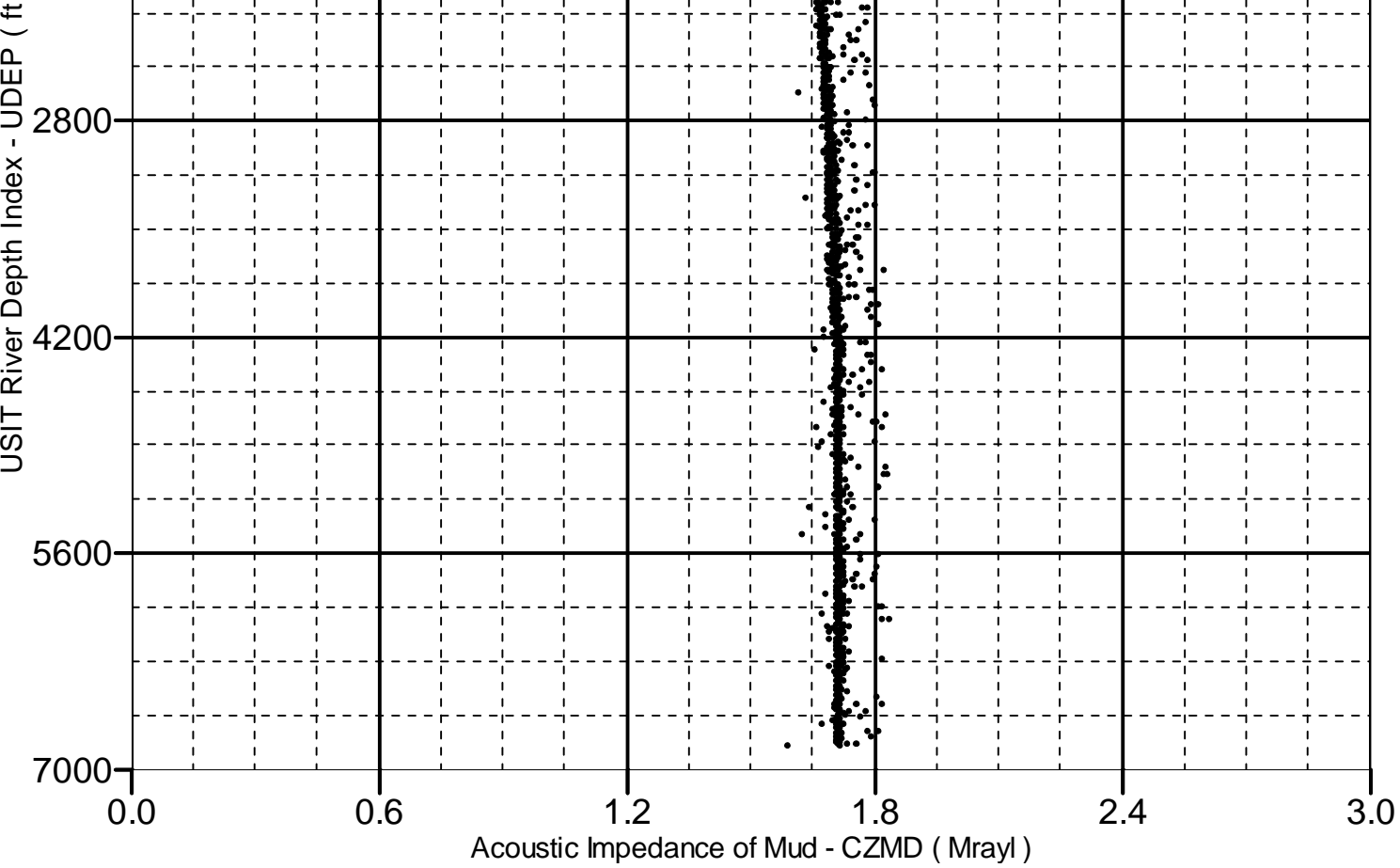
Run 1 : Main[7]:Up:S011

Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 6855.50 to 11.50 ft





Company:	Anadarko Petroleum Company	Schlumberger
Well:	Spurling 14N-34HZ	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
Isolation Scanner		
Cement Evaluation		
Gamma Ray - CCL Log		