

Company: Crestone Peak Resources Operating LLC

Well: Davis 1M-9H-G266

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner
Cement Evaluation
Gamma Ray - CCL Log

County: Weld
Field: Wattenberg
Location: SWSE Sec. 9, T2N, R66W
Well: Davis 1M-9H-G266
Company: Crestone Peak Resources Operating LLC

Location:		SWSE Sec. 9, T2N, R66W SHL: 1987' FNL & 1438' FEL Lat/Long: 40.154368, -104.777946	Elev.: K.B. 4940.00 ft G.L. 4917.00 ft D.F. 4940.00 ft
Permanent Datum:		Ground Level	Elev.: 4917.00 f
Log Measured From:		Kelly Bushing	23.00 ft above Perm.Datum
Drilling Measured From:		Kelly Bushing	
API Serial No.	Section:	Township:	Range:
05-123-46519	9	2N	66W

Logging Date 22-Sep-2018

Run Number ONE

Depth Driller 15734.00 ft

Schlumberger Depth 15734.00 ft

Bottom Log Interval 7513.00 ft

Top Log Interval 867.00 ft

Casing Fluid Type Water

Salinity

Density 8.4 lbm/gal

Fluid Level 0.00 ft

BIT/CASING/TUBING STRING

Bit Size 8.50 in

From 2220.00 ft

To 15734.00 ft

Casing/Tubing Size 5.5 in

Weight 20 lbm/ft

Grade P110

From 0.00 ft

To 15734.00 ft

Max Recorded Temperatures 197.2 degF

Logger on Bottom 22-Sep-2018 08:16:00

Unit Number 9108

Recorded By A.BLOCHOWICZ

Witnessed By DUANE DUNN

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.

Contents

1. Header

2. Disclaimer

3. Contents

4. Well Sketch

5. Borehole Size/Casing/Tubing Record

6. Remarks and Equipment Summary

7. Depth Summary

8. IBC Fluid Properties Measurement

9. ONE IBC SLG

9.1 Integration Summary

9.2 Software Version

9.3 Composite Summary

9.4 Log (IBC SLG)

9.5 Parameter Listing

10. ONE IBC SLG Composite

10.1 Integration Summary

10.2 Composite Summary
- 12.1 Integration Summary

12.2 Software Version

12.3 Composite Summary

12.4 Log (IBC SLG)

12.5 Parameter Listing

13. ONE IBC SLG Composite

13.1 Integration Summary

13.2 Composite Summary

13.3 Log (IBC SLG Composite)

13.4 Parameter Listing

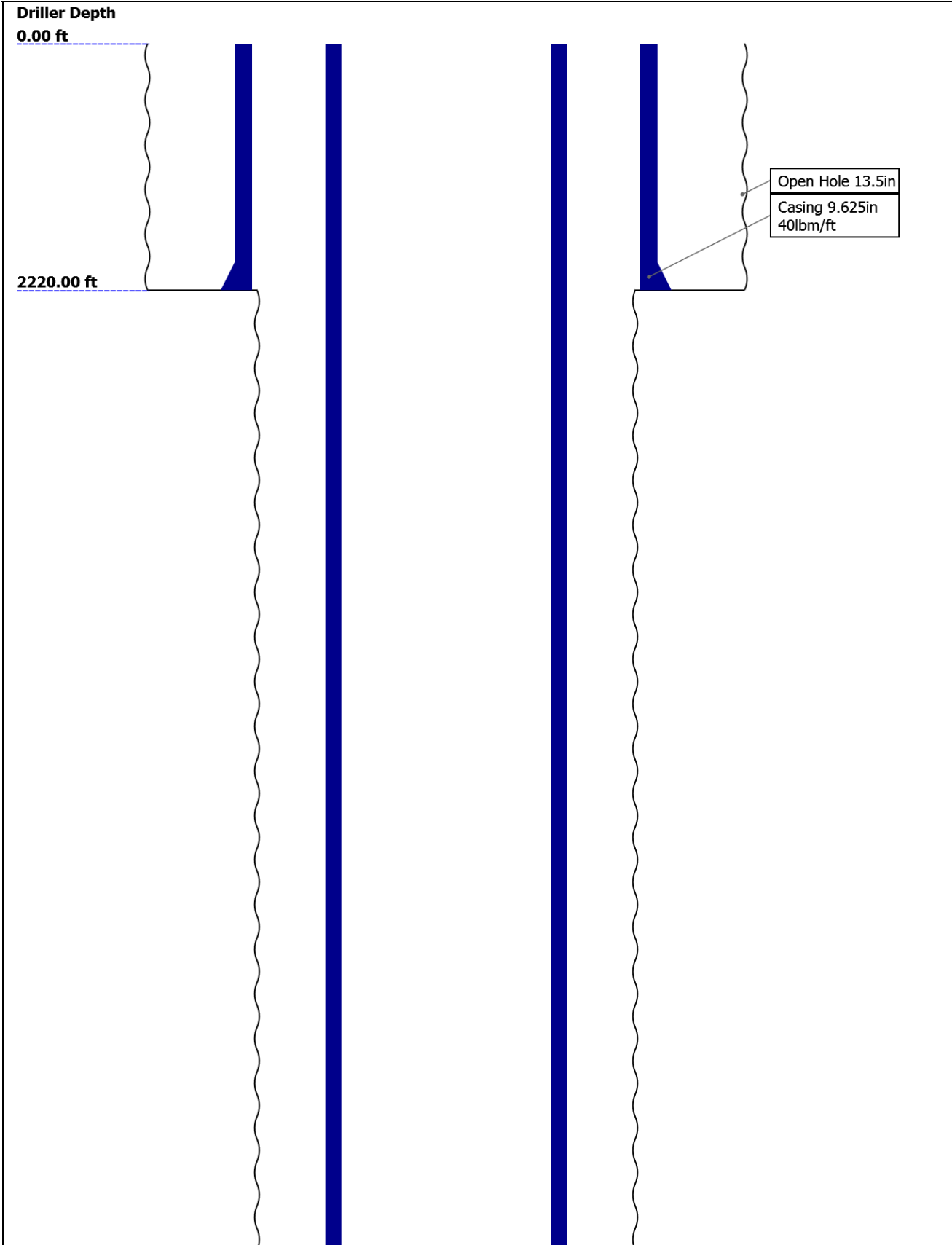
14. XYZ (IBC Fluid Acoustic Slowness vs Depth 6.0 in)

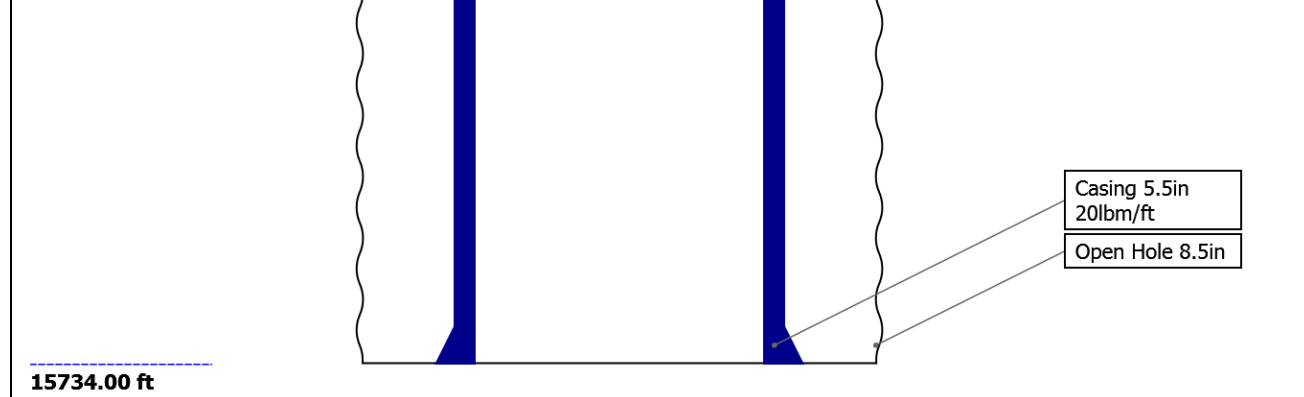
15. XYZ (IBC Acoustic Impedance of Mud vs Depth 6.0 in)

16. Tail

- 10.3 Log (IBC SLG Composite)
- 10.4 Parameter Listing
- 11. ONE IBC Goodwin Compressed
 - 11.1 Integration Summary
 - 11.2 Composite Summary
 - 11.3 Log (IBC Goodwin)
- 12. ONE IBC SLG

Well Sketch



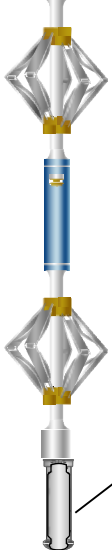


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	13.5	8.5				
Top Driller (ft)	0	2220				
Top Logger (ft)	0	2220				
Bottom Driller (ft)	2220	15734				
Bottom Logger (ft)	2220	15734				
Casing						
Size (in)	9.625	5.5				
Weight (lbm/ft)	40	20				
Inner Diameter (in)	8.835	4.778				
Grade	J55	P110				
Top Driller (ft)	0	0				
Top Logger (ft)	0	0				
Bottom Driller (ft)	2220	15734				
Bottom Logger (ft)	2220	15734				

Remarks and Equipment Summary

ONE: Toolstring				ONE: Remarks	
Equip name	Length		MP name	Offset	<p>Thank you for choosing Schlumberger!</p> <p>Tool string run as per tool sketch and client logging program.</p> <p>5" Gemcos and in-line centralizers with small hole kit used for centralization.</p> <p>All passes run under 0 PSI</p> <p>Lead: 12.5 ppg Tail: 13.5 ppg Spacer: 12 ppg</p> <p>High deviation (32 DEG) and dogleg severity affected data throughout the well.</p> <p>Top of fluid at 687'</p>
LEH-QT	30.73				
LEH-QT					
EDTC-B:8	27.24				
473M					
EDTH-B:86					
24					
EDTG-A:7					
7434					
EDTC-B:84					
73M					
			CTEM	23.74	
			ACCZ	0.00	
			HV	0.00	
			Gamma	21.87	
			Ray		
			TelStatu	20.74	
			s		
AH-184[20.74				
2]:5941					
AH-184[18.74				
1]:5965					
USIT-E:17	16.74				
25					
ECH-MFA:					
1991					
USAC-A:1					
725					
USIT-A:10					

USIS-A:18 32 USSC-B:17 78 IBCS-A:77 4 FAR-SENS OR:4670 IBC-TX NEAR-SEN SOR:4642 IBC-TX USI-SENS OR:1358 IBC-TX EMITTER- SENSOR:4 561 IBC-TX	 <p>USI Sen 0.84 sor Head Te nsion TOOL_ZERO</p> <p>Lengths are in ft Maximum Outer Diameter = 5.000 in Line: Sensor Location, Value: Gating Offset All measurements are relative to TOOL_ZERO</p>	
---	---	--

Depth Summary			
		ONE	
Depth Measuring Device			
Type	IDW-JA		
Serial Number	6455		
Calibration Date	26-JUL-2018		
Calibrator Serial Number	IDWC-C-57		
Calibration Cable Type	7-32 ASXS		
Wheel Correction 1	-1		
Wheel Correction 2	1		
Tension Device			
Type	CMTD-B/A		
Serial Number	1703		
Calibration Date	29-Jul-2018		
Calibrator Serial Number	88310A		
Number of Calibration Points	10		
Calibration Root Mean Square Error	6		
Calibration Peak Error	9		
Logging Cable			
Type	7-32AS-XS		
Serial Number	U718001		
Length	20000.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane USA		
ONE:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well	All Schlumberger depth control policies followed.	
Rig Up Length At Surface		IDW used as primary depth reference.	
Rig Up Length At Bottom		Z-chart used as secondary depth reference.	
Rig Up Length Correction			

Stretch Correction
Tool Zero Check At Surface

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Log[6]:Up	7518.57	656.21

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 : 338.36m(1110.10ft) to 339.44m(1113.64ft)
MUD_N_FRP = 1.17
DFD = 1.01g/cm3(8.40lbm/gal)
CZMD median computed in free pipe normalization interval = 1.73 MRayl

Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
-----------------	----------------	--------------------	------------------

ONE

IBC SLG

Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[6]:Up	Up	656.21 ft	7518.57 ft	22-Sep-2018 8:16:11 AM	22-Sep-2018 9:55:15 AM	ON	7.15 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources Operating LLC Well:Davis 1M-9H-G266 ONE: Log[6]:Up:S006
-----	---

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 22-Sep-2018 10:58:34

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

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

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

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

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

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

UTIM Error

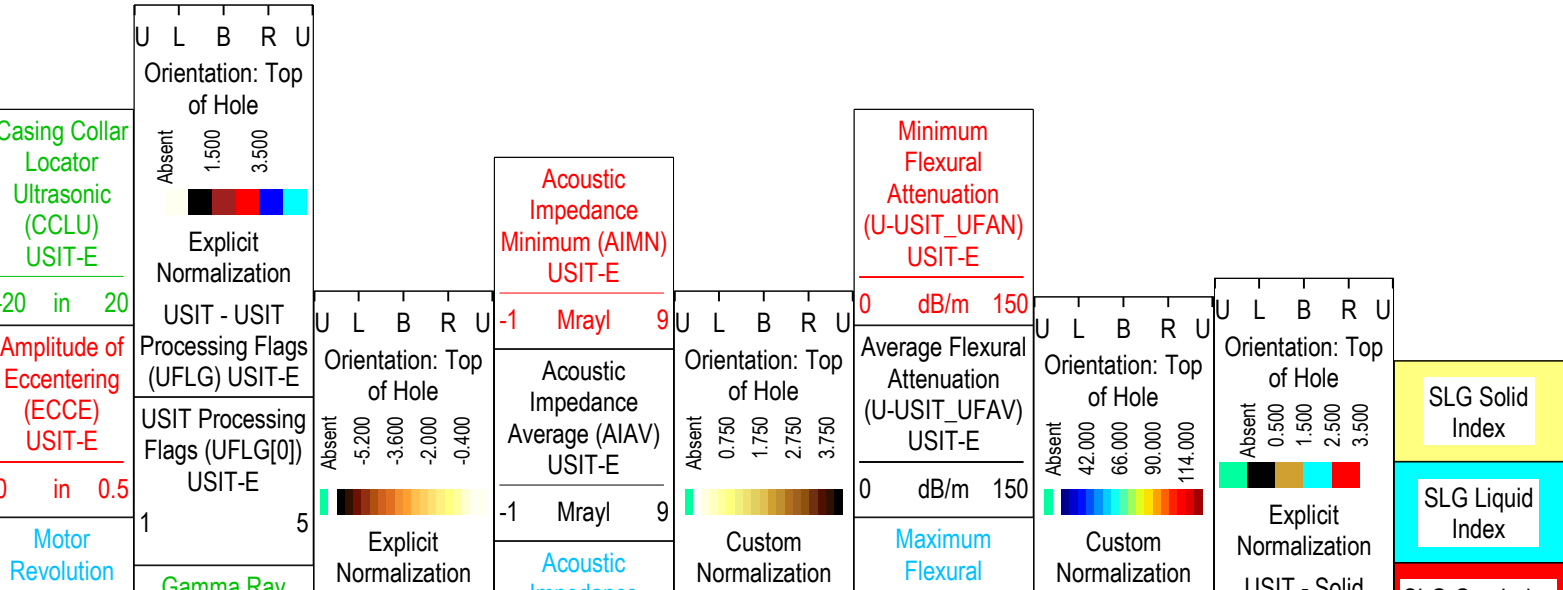
Pulse Origin Not Detected

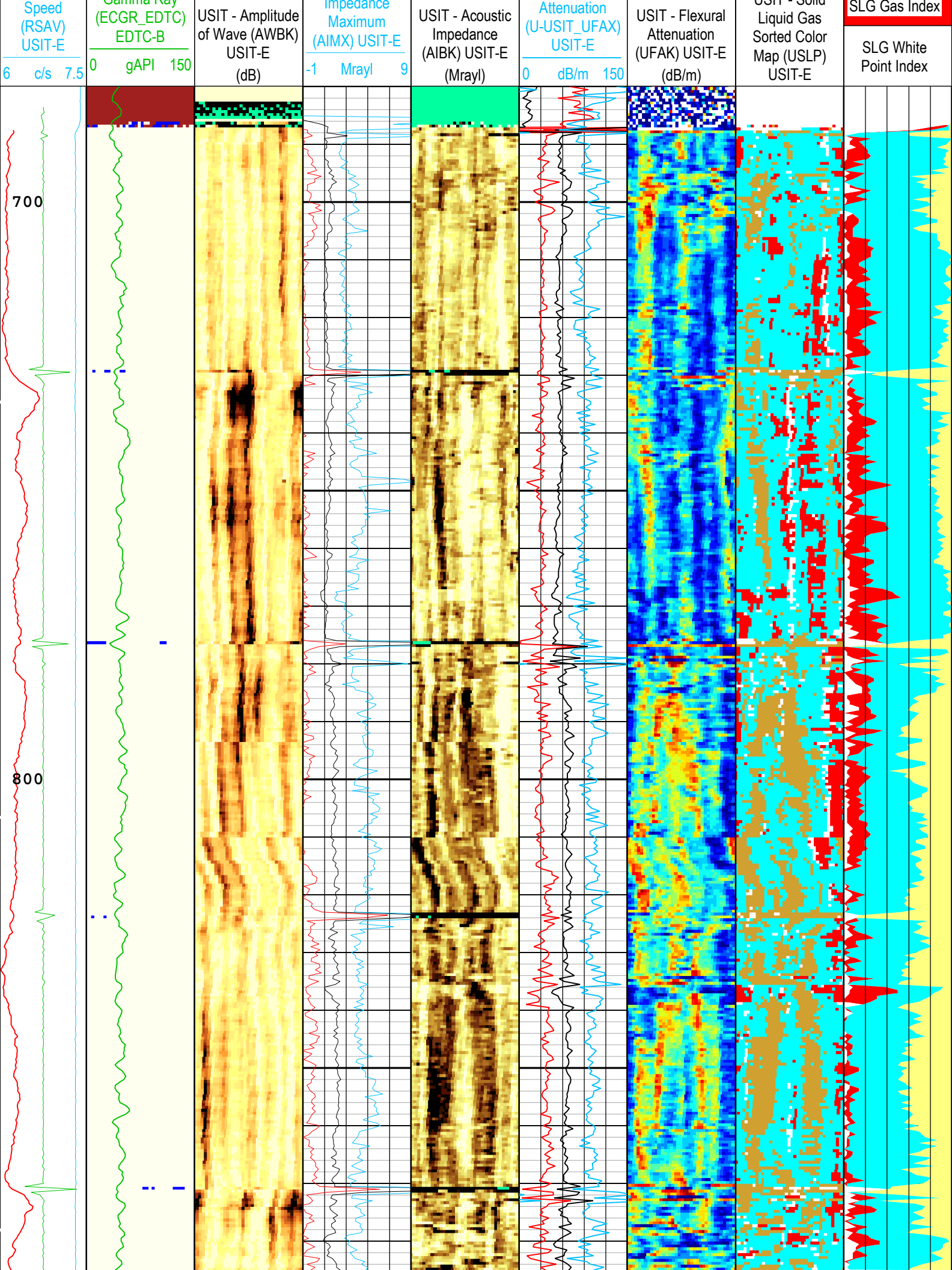
WINLEN Error

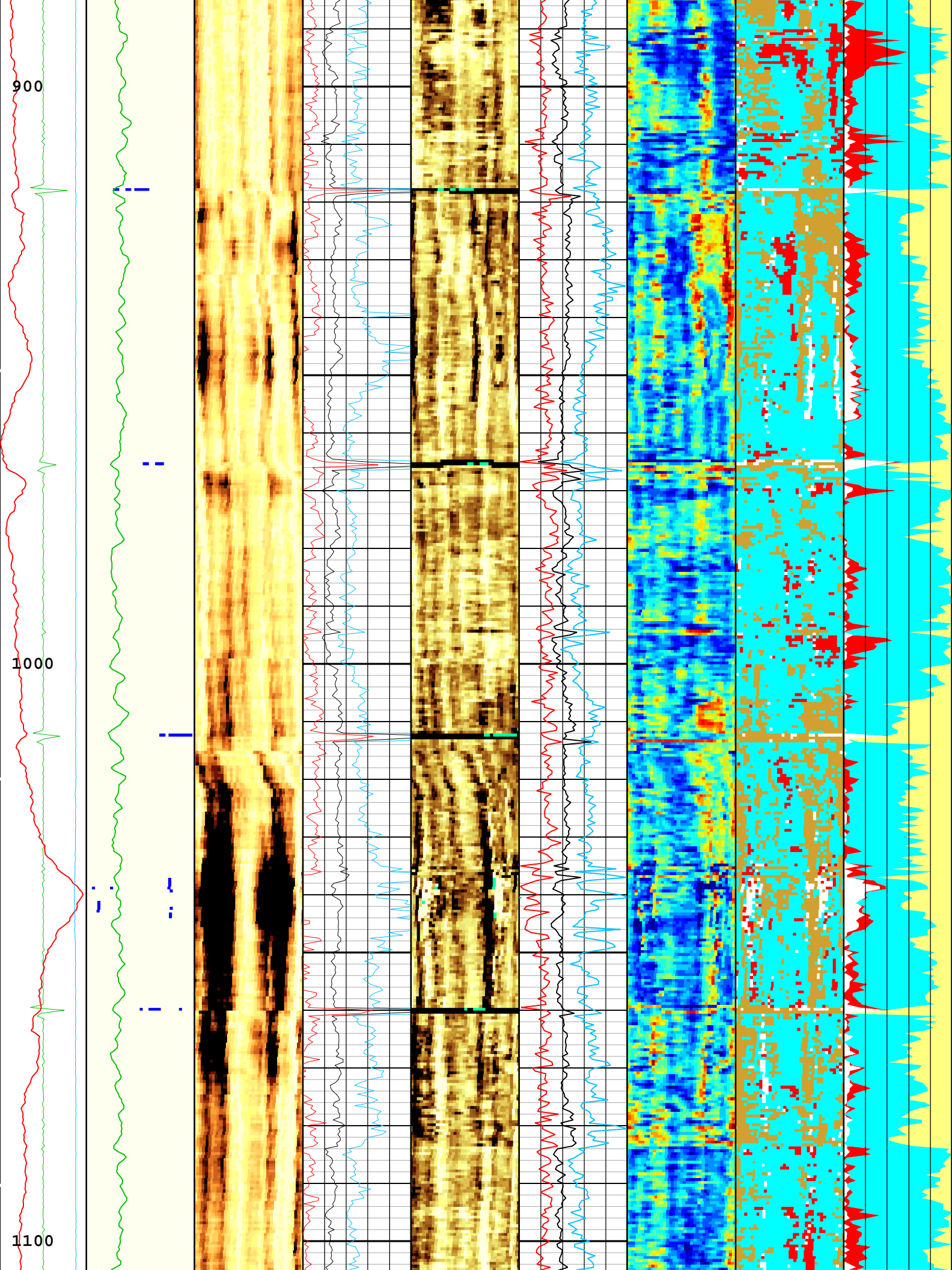
Casing Thickness Error

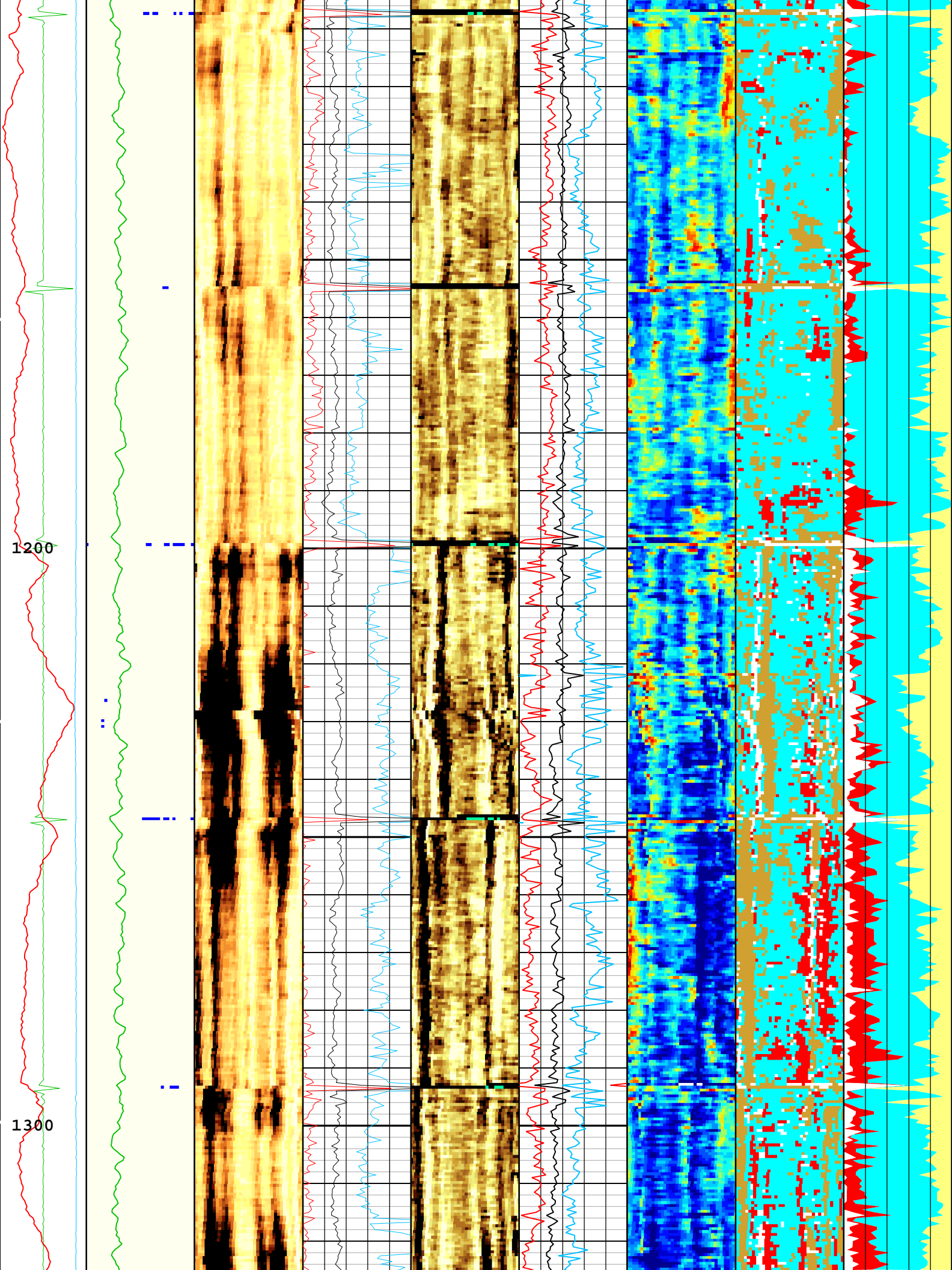
Loop Processing Error

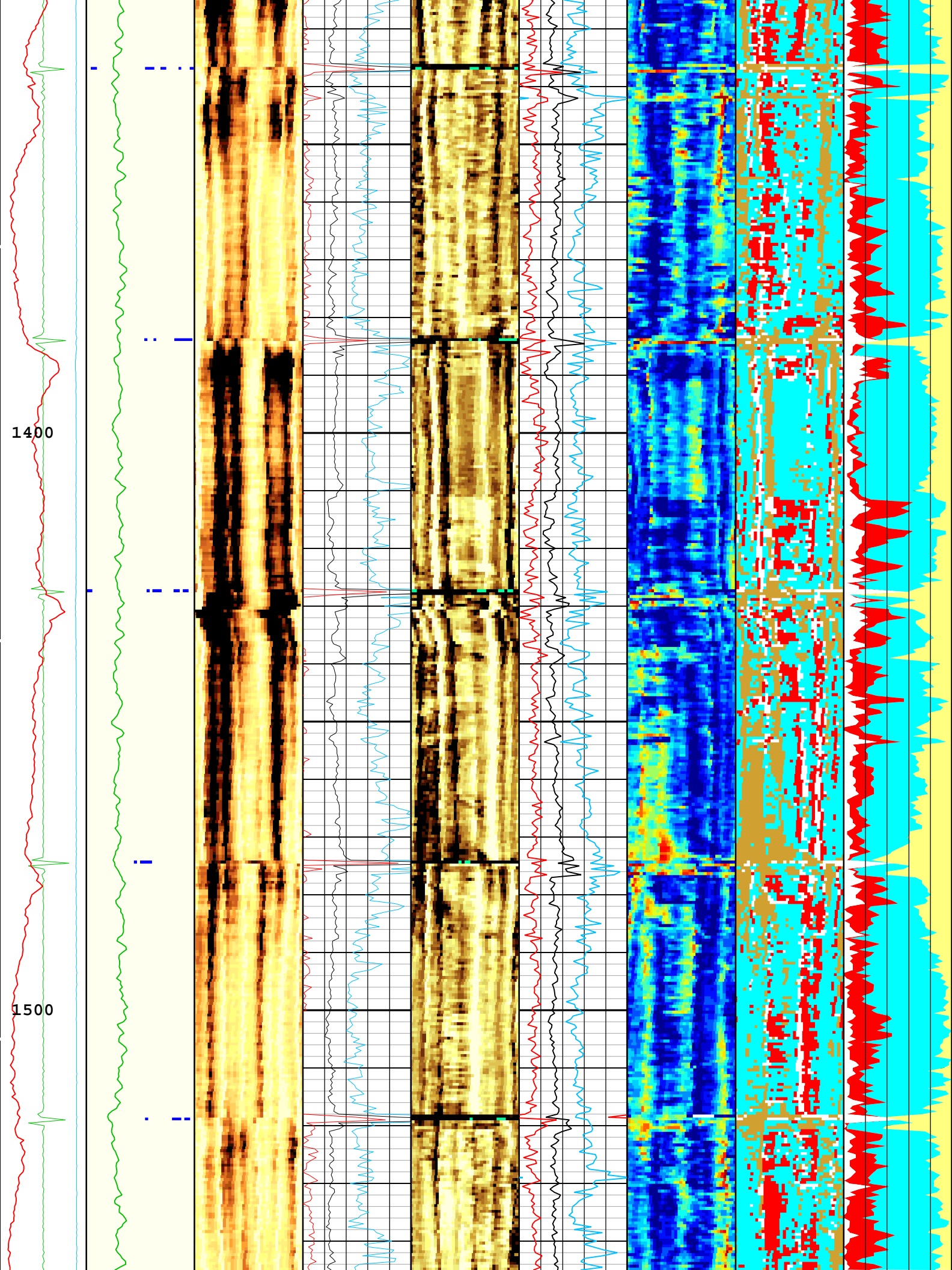
TIME_1900 - Time Marked every 60.00 (s)

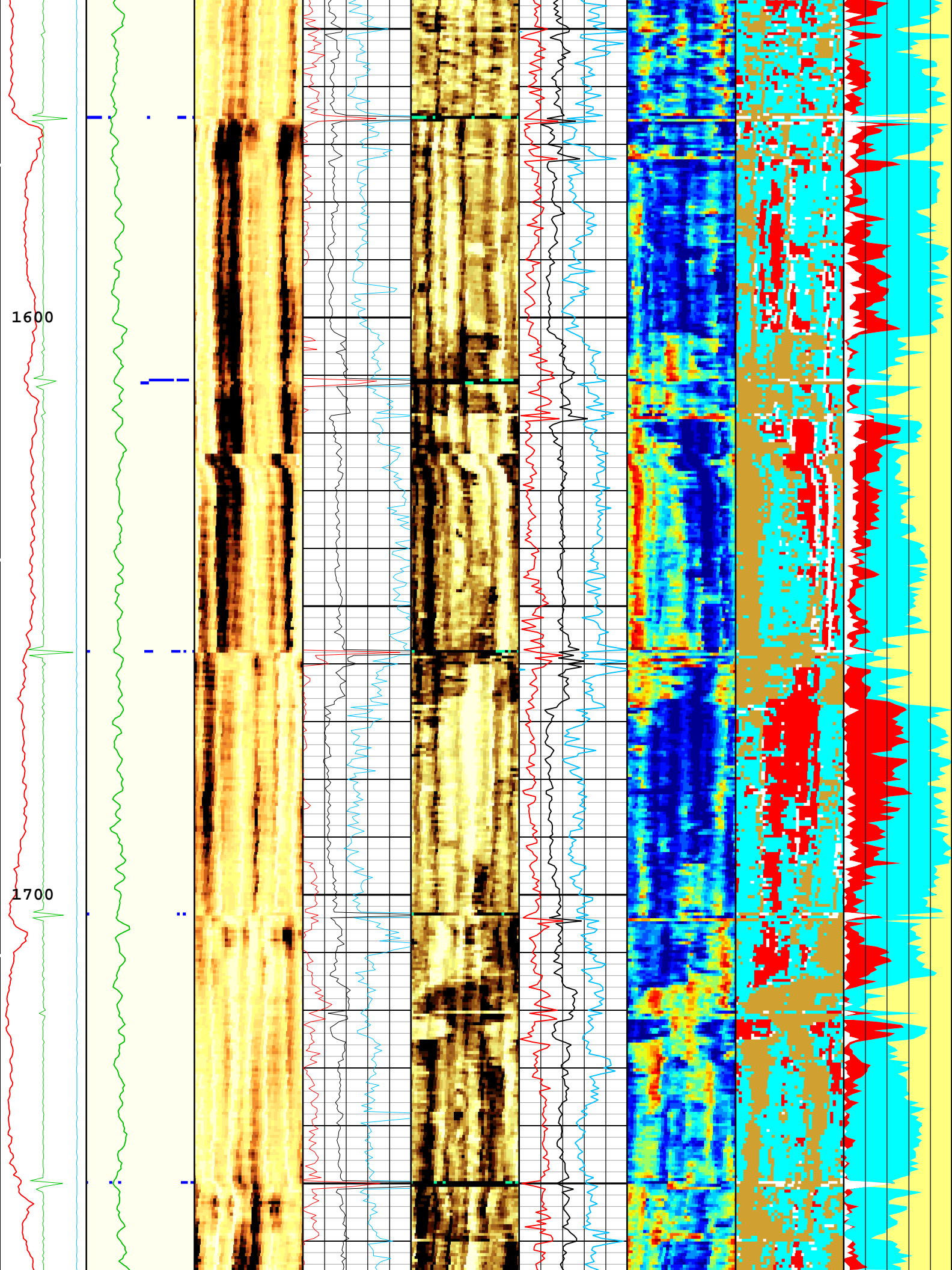


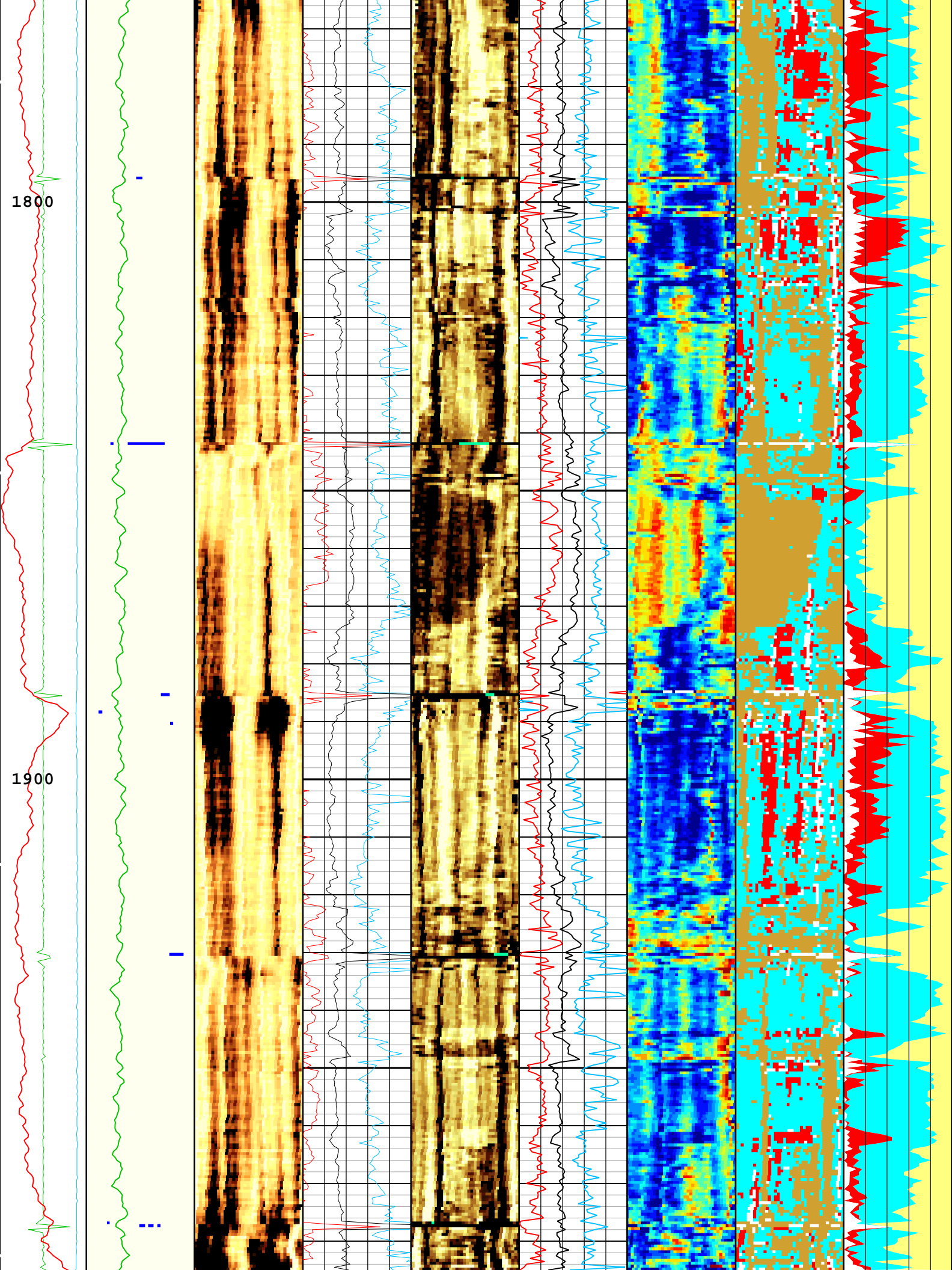


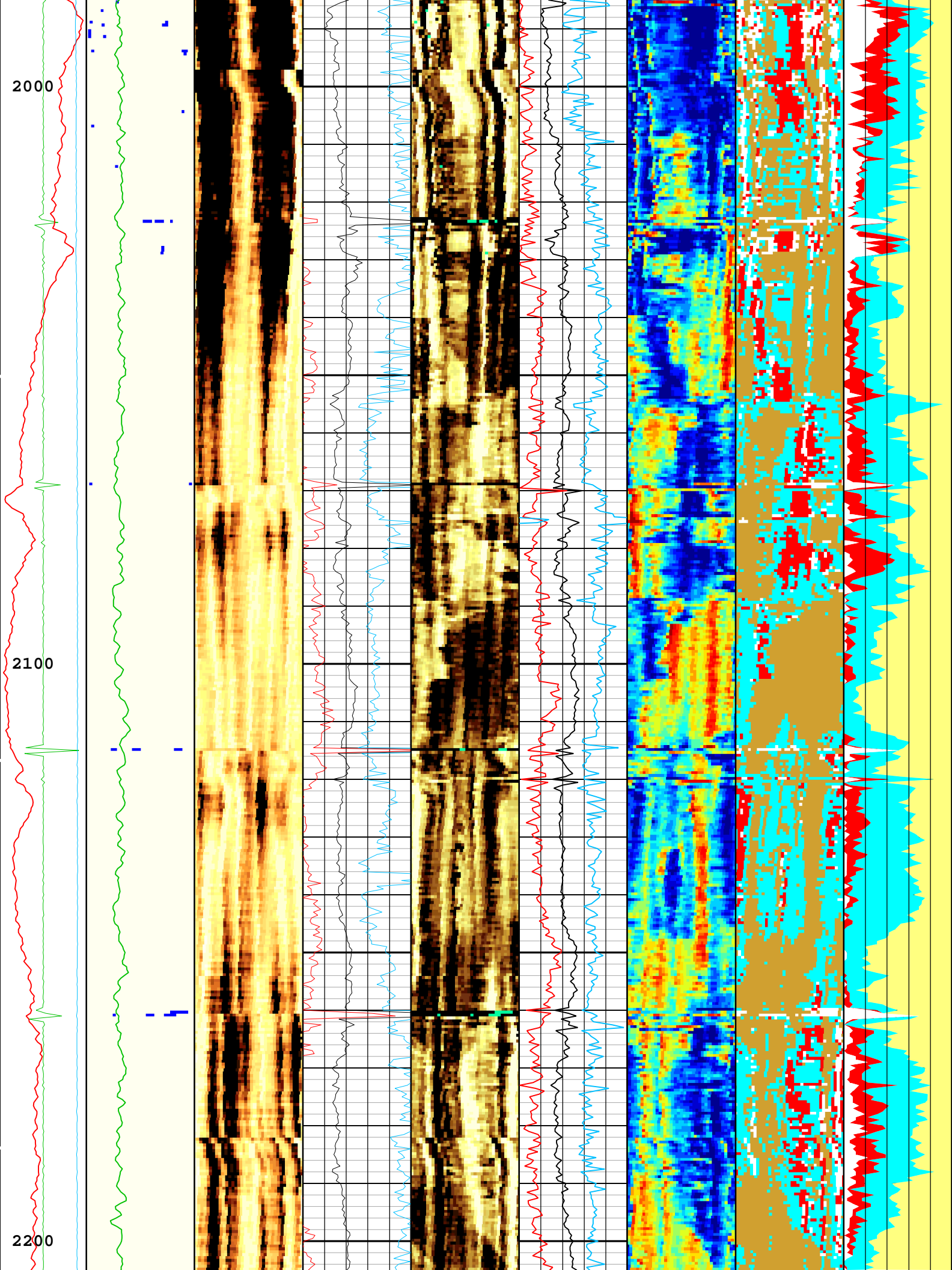


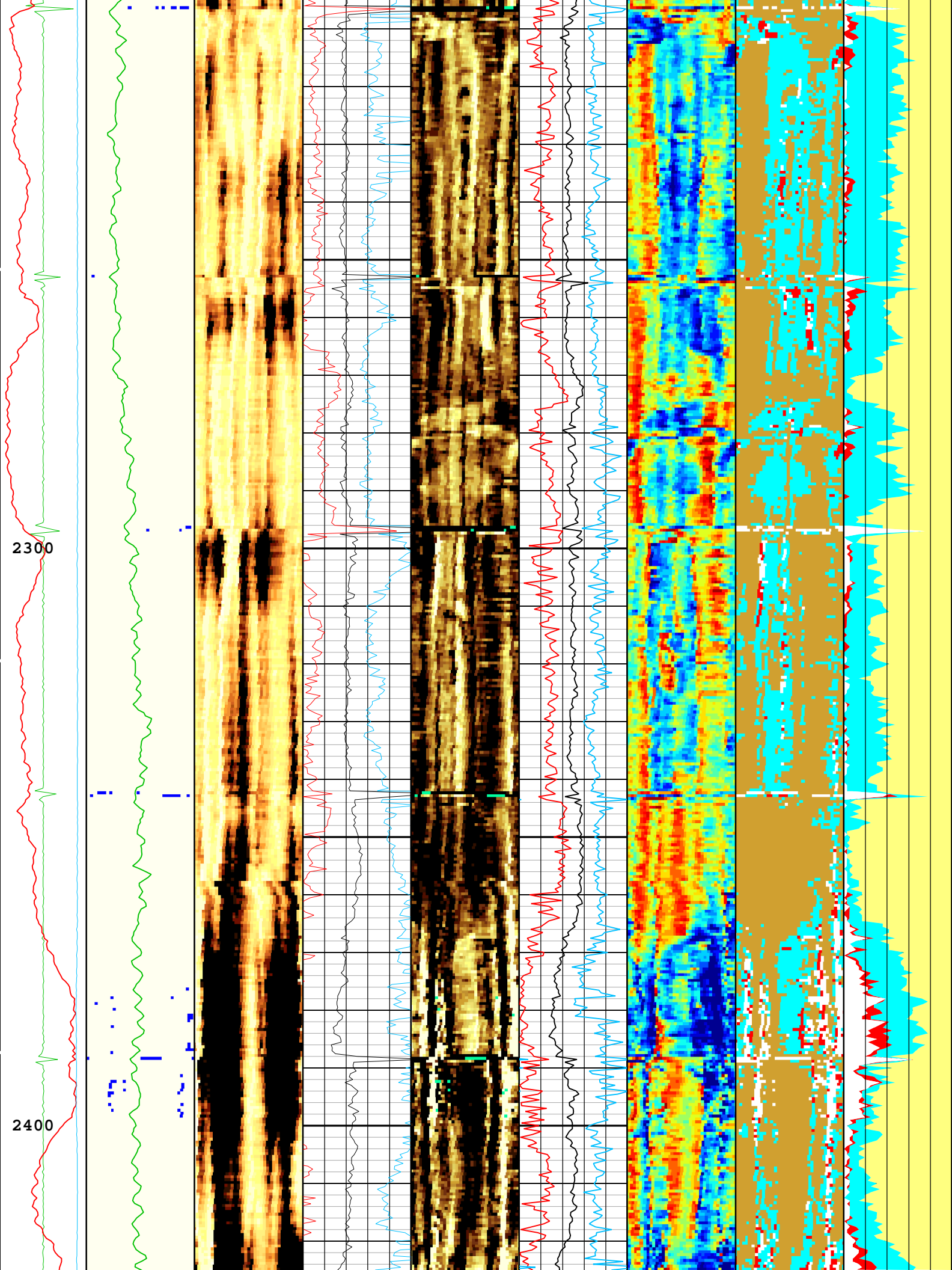


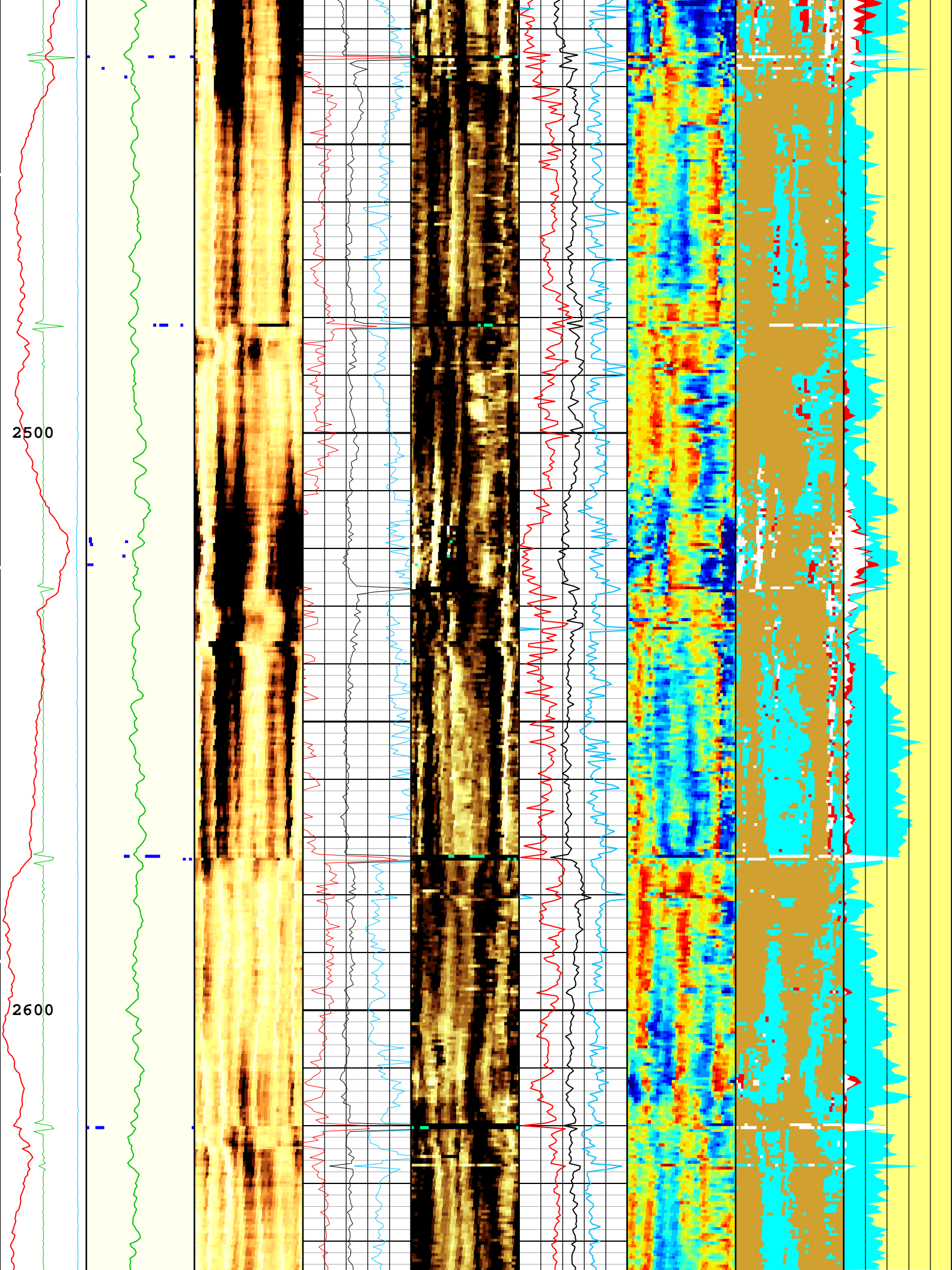


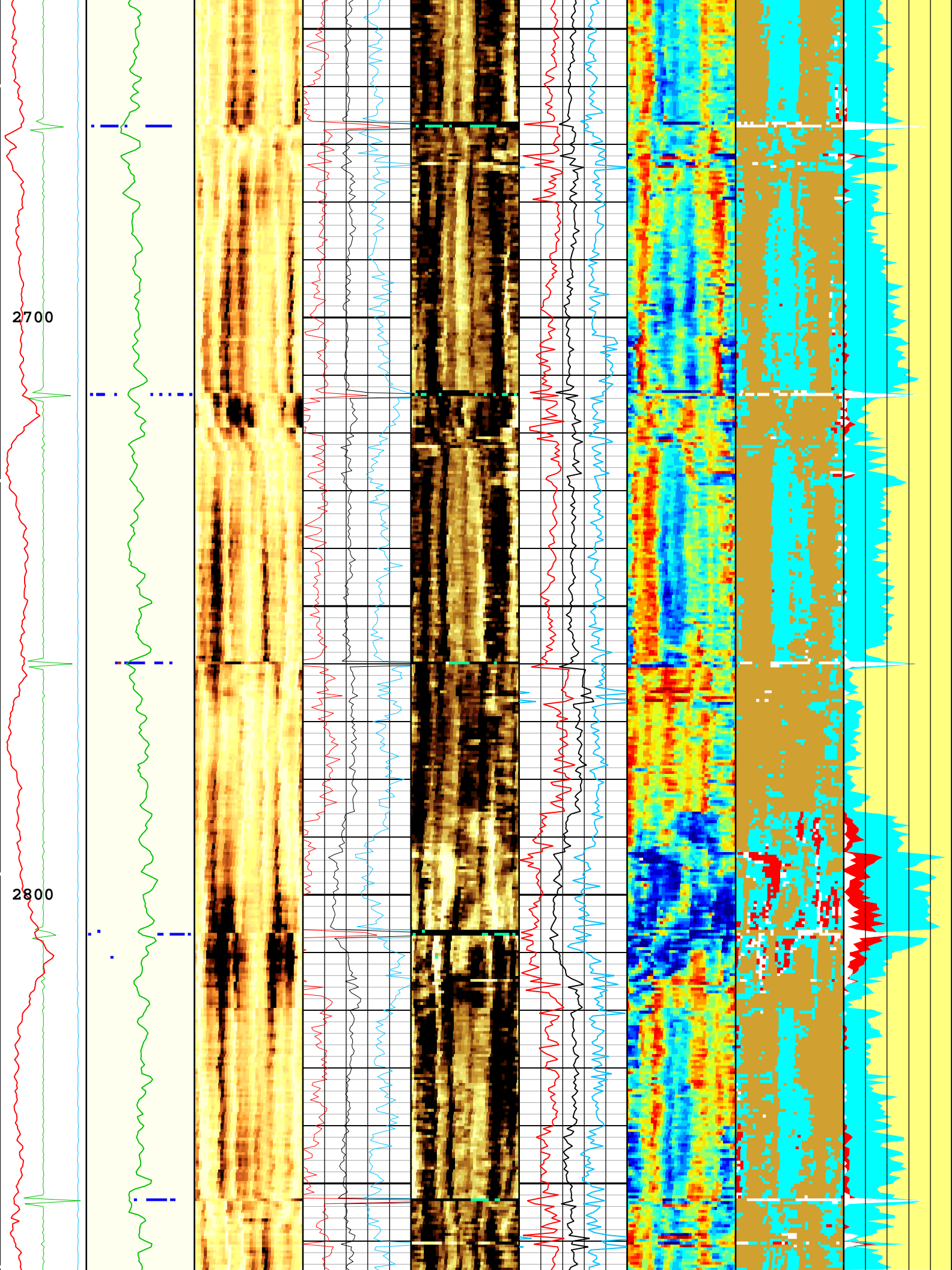


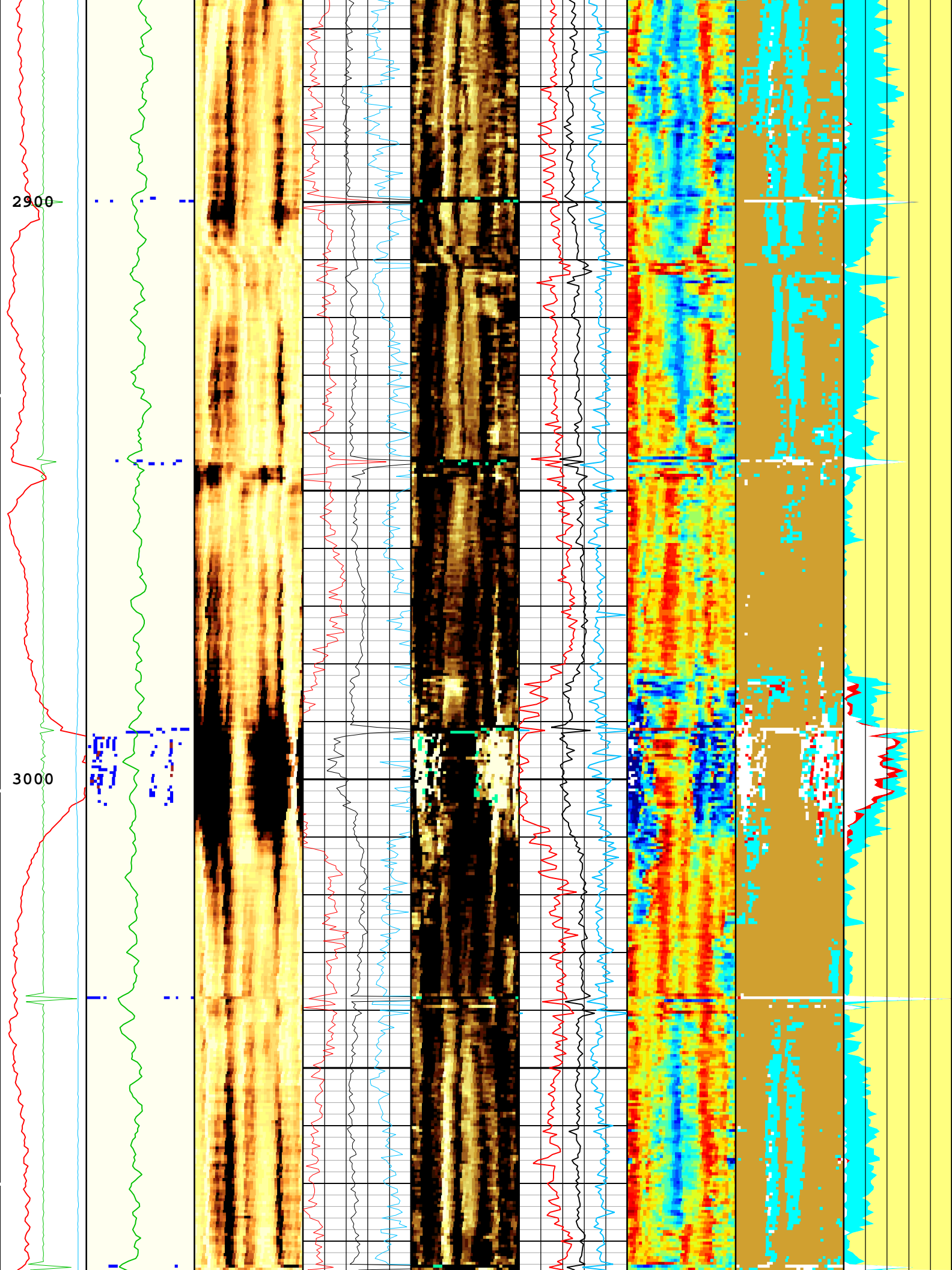


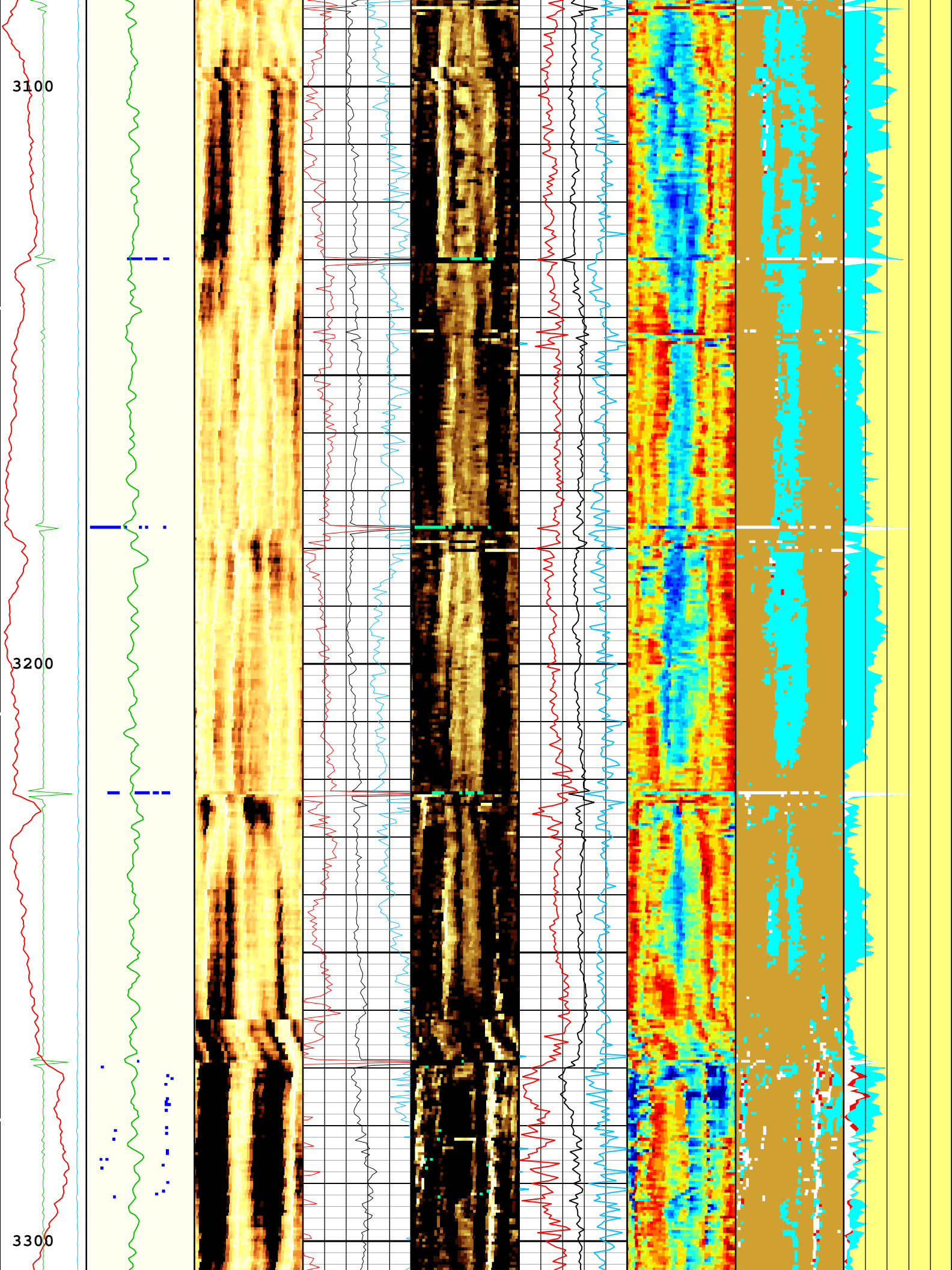


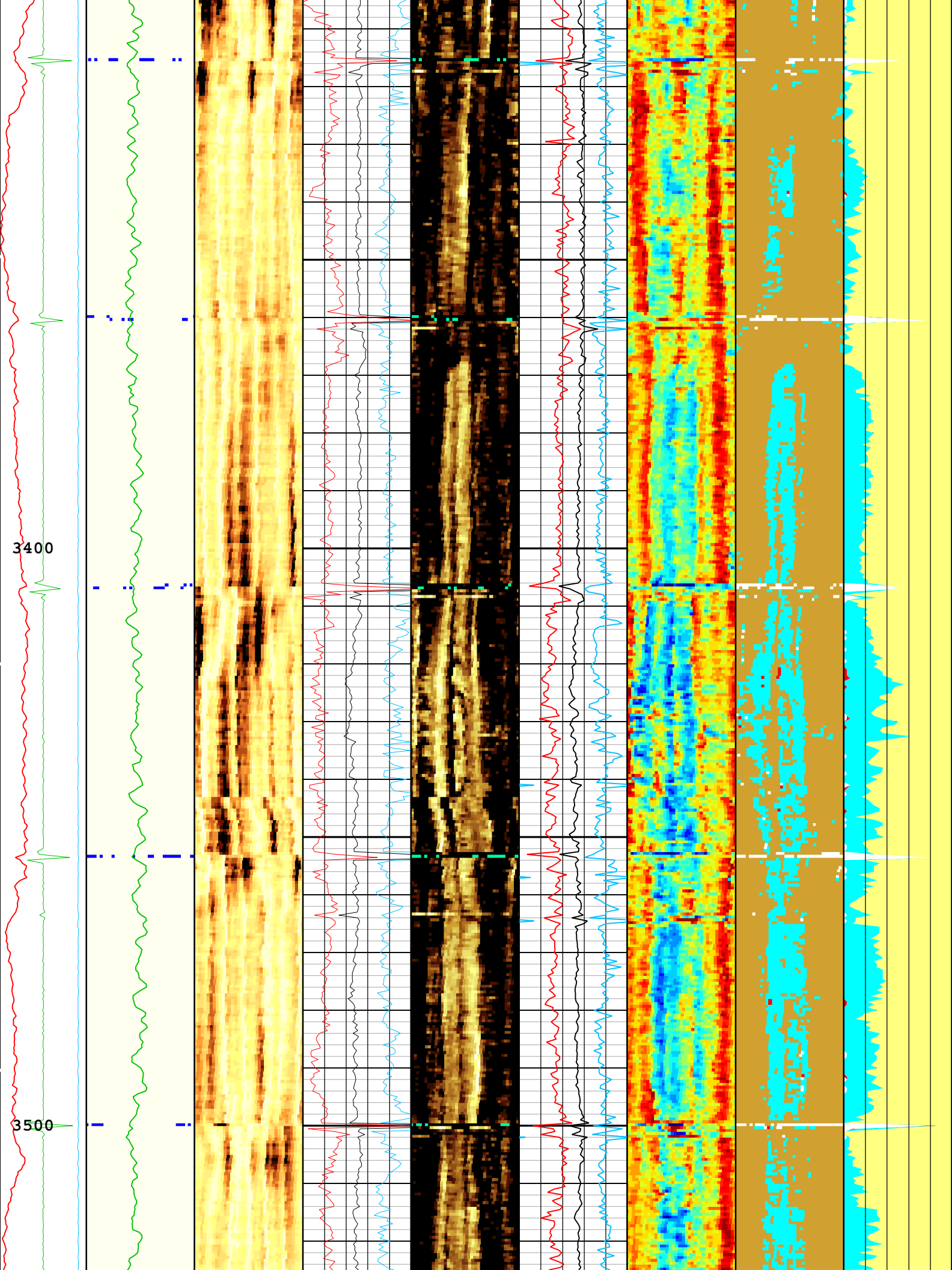


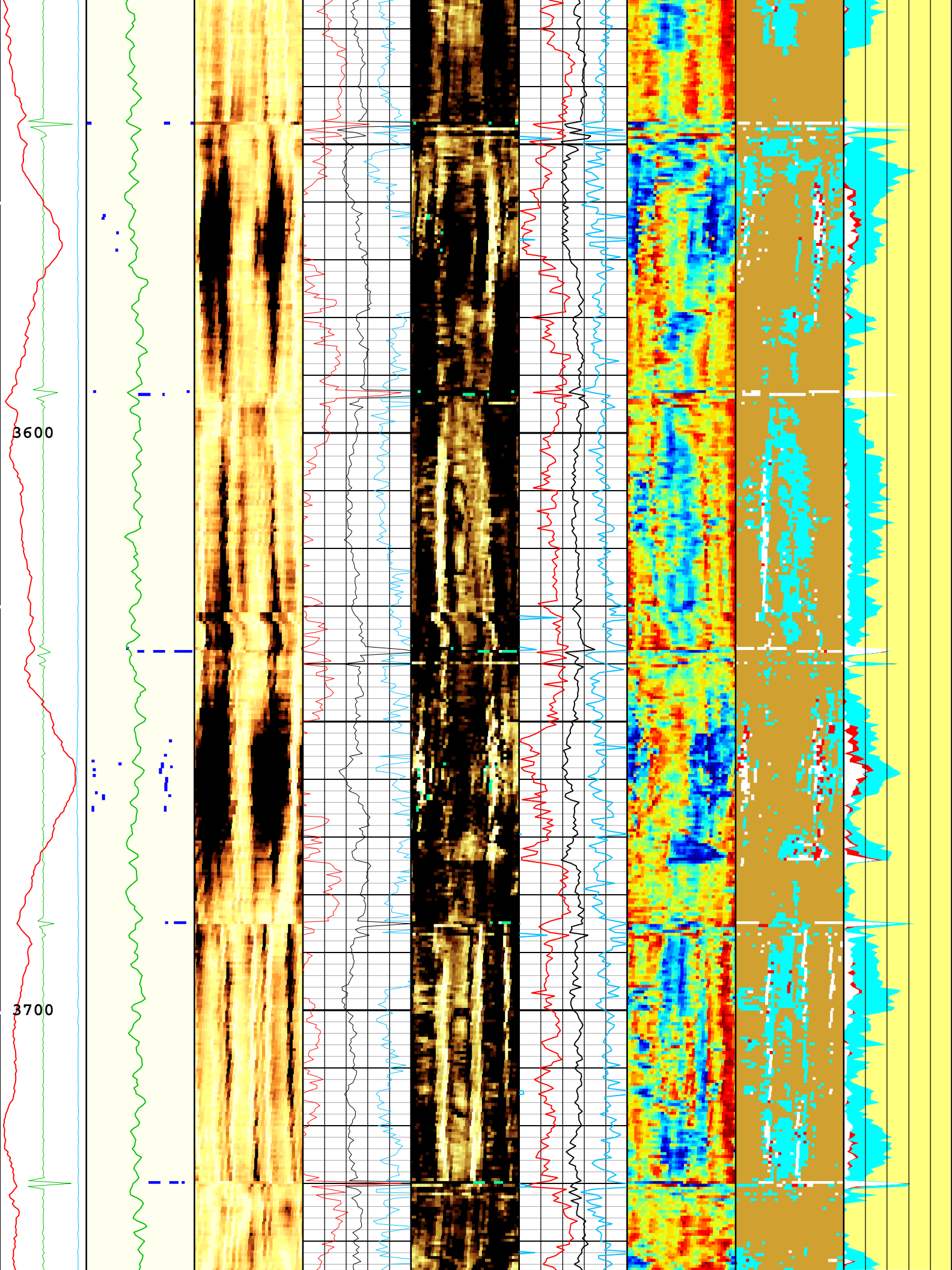


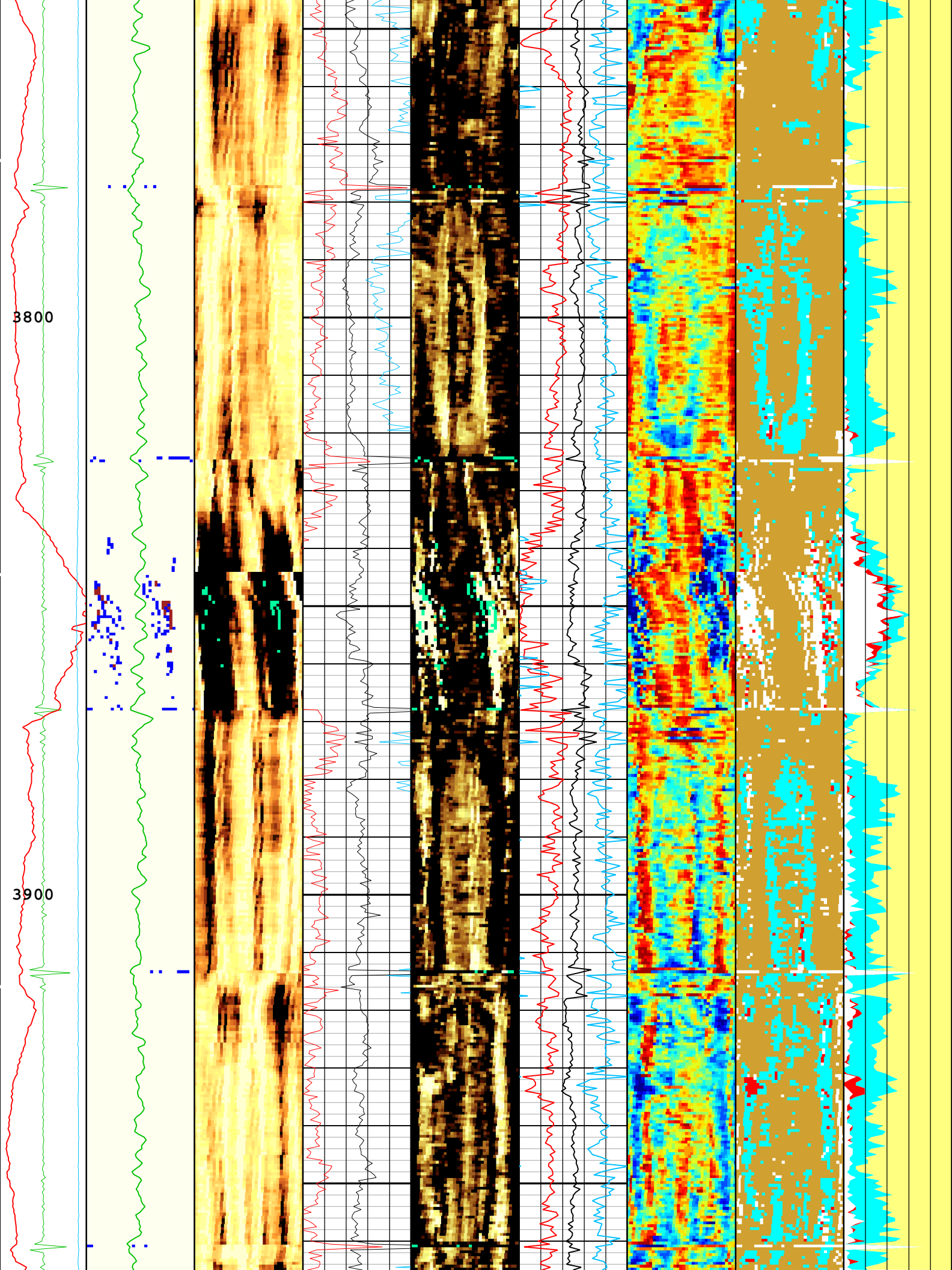


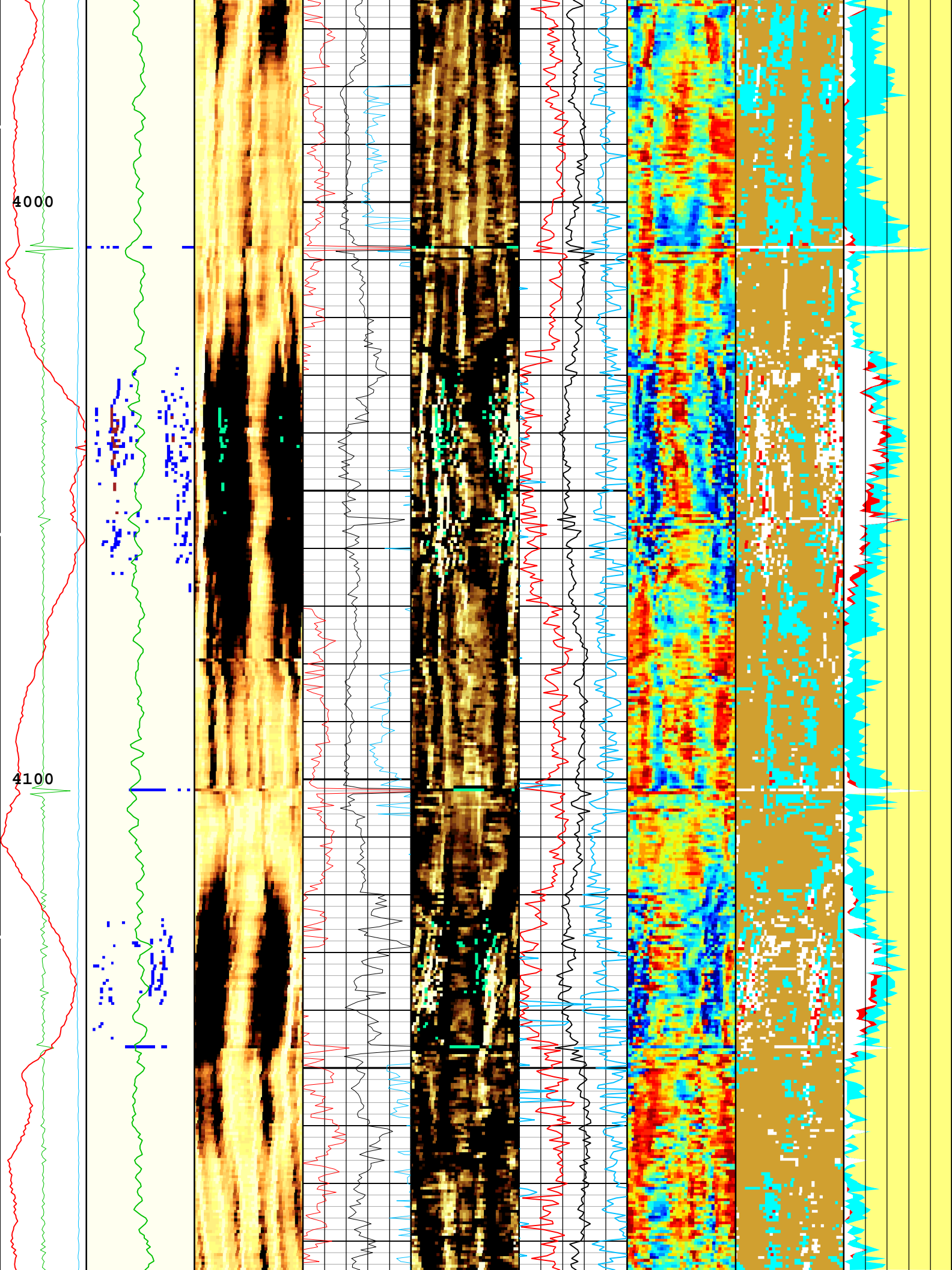


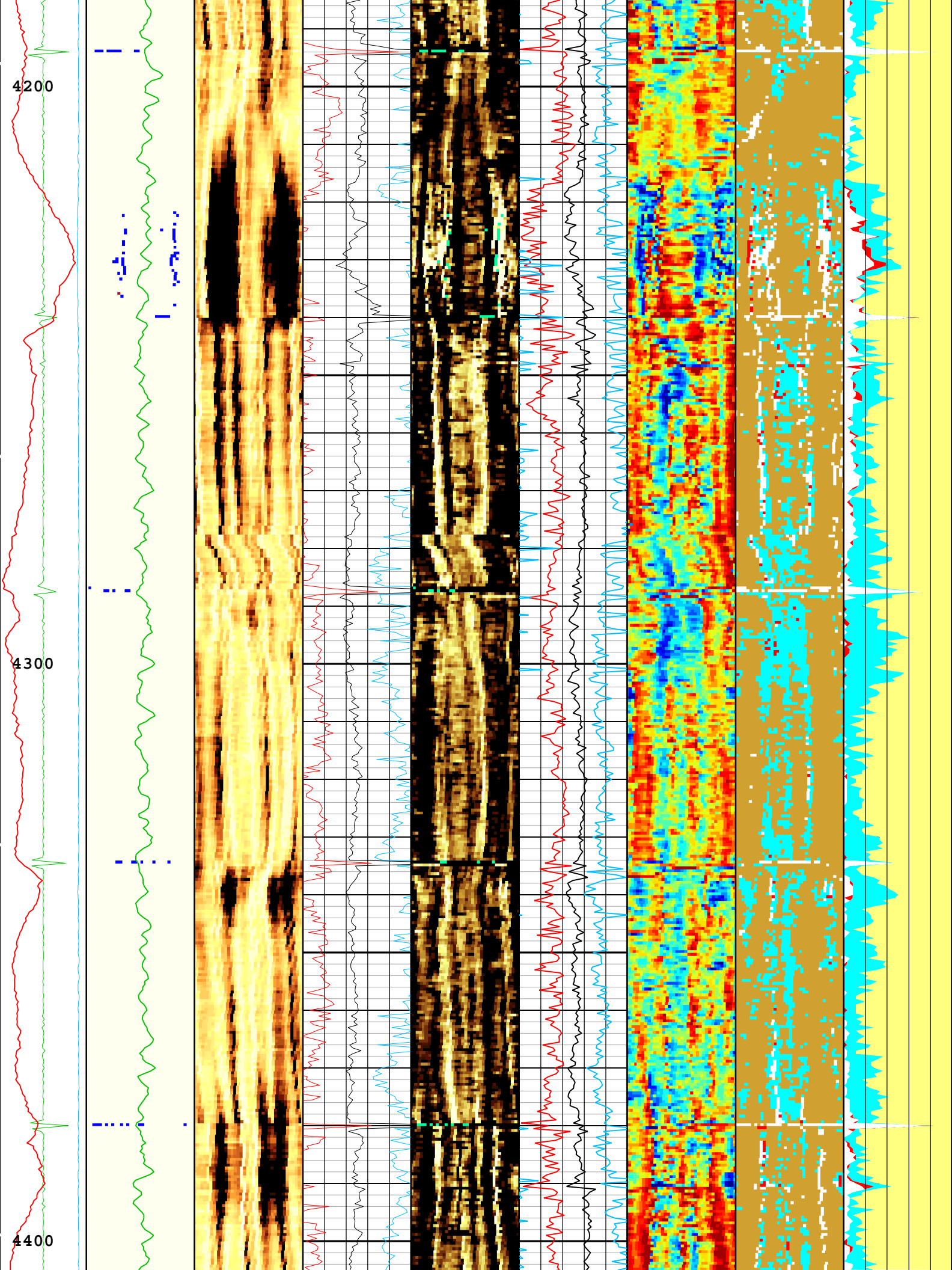


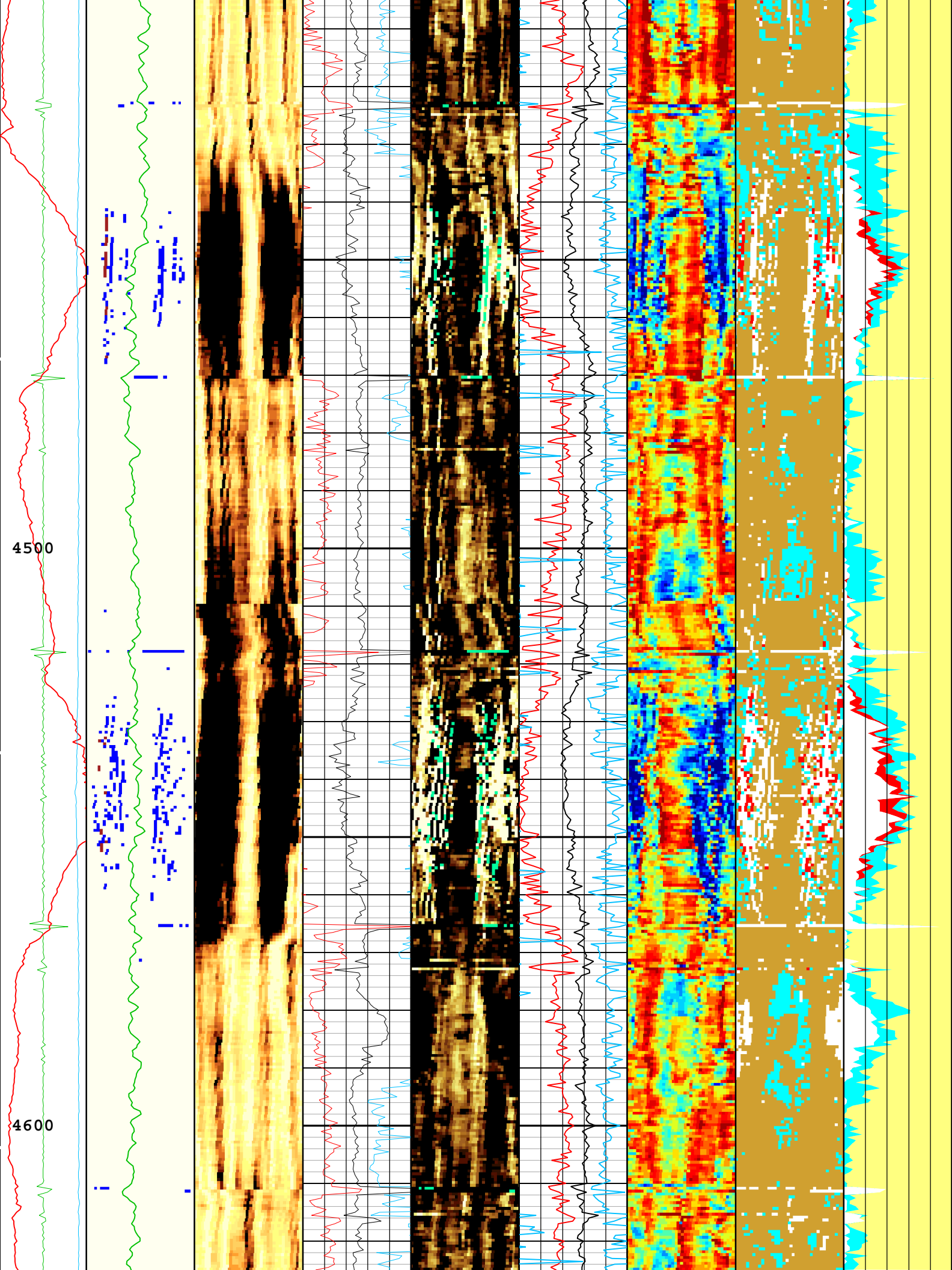


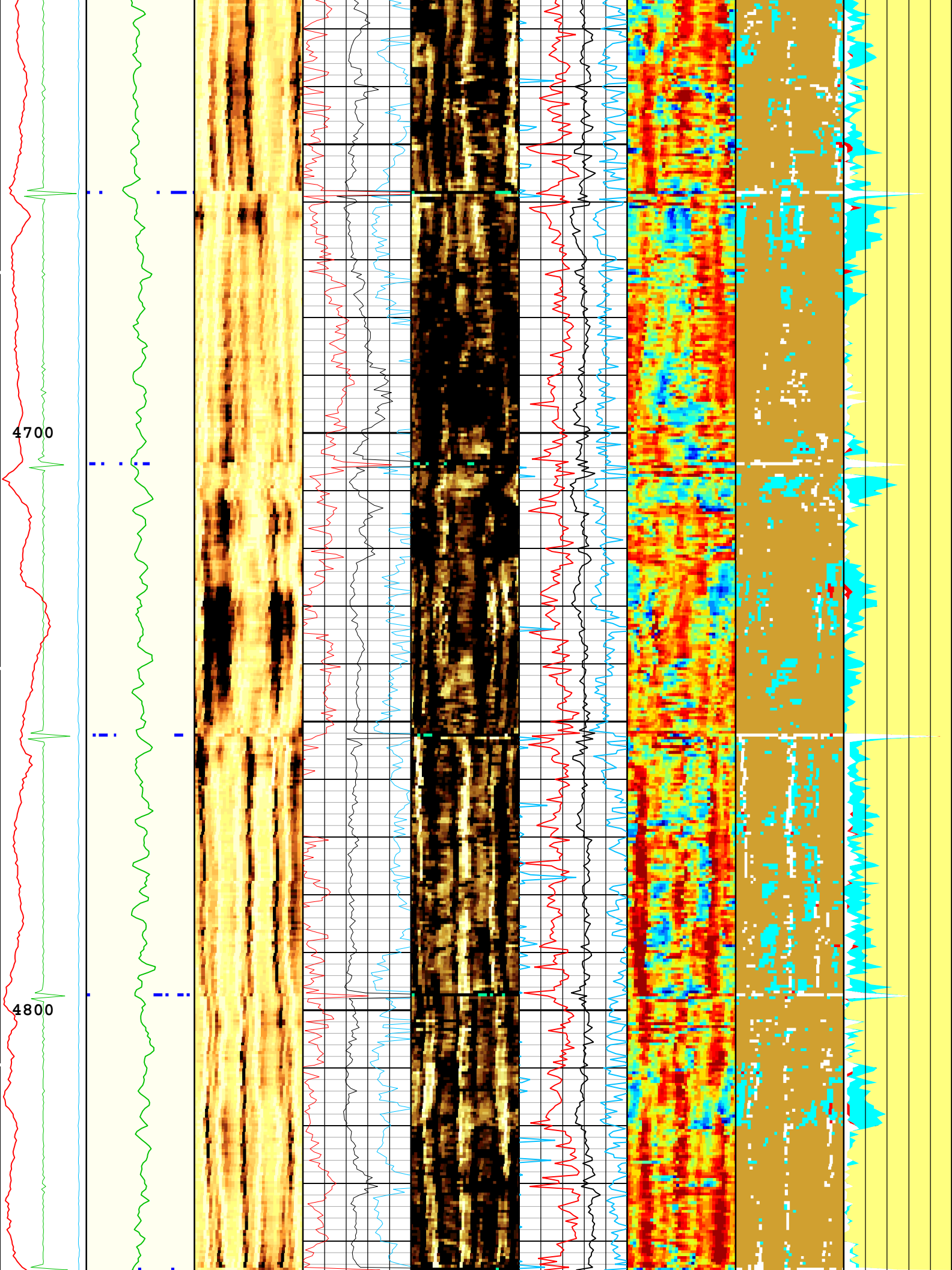


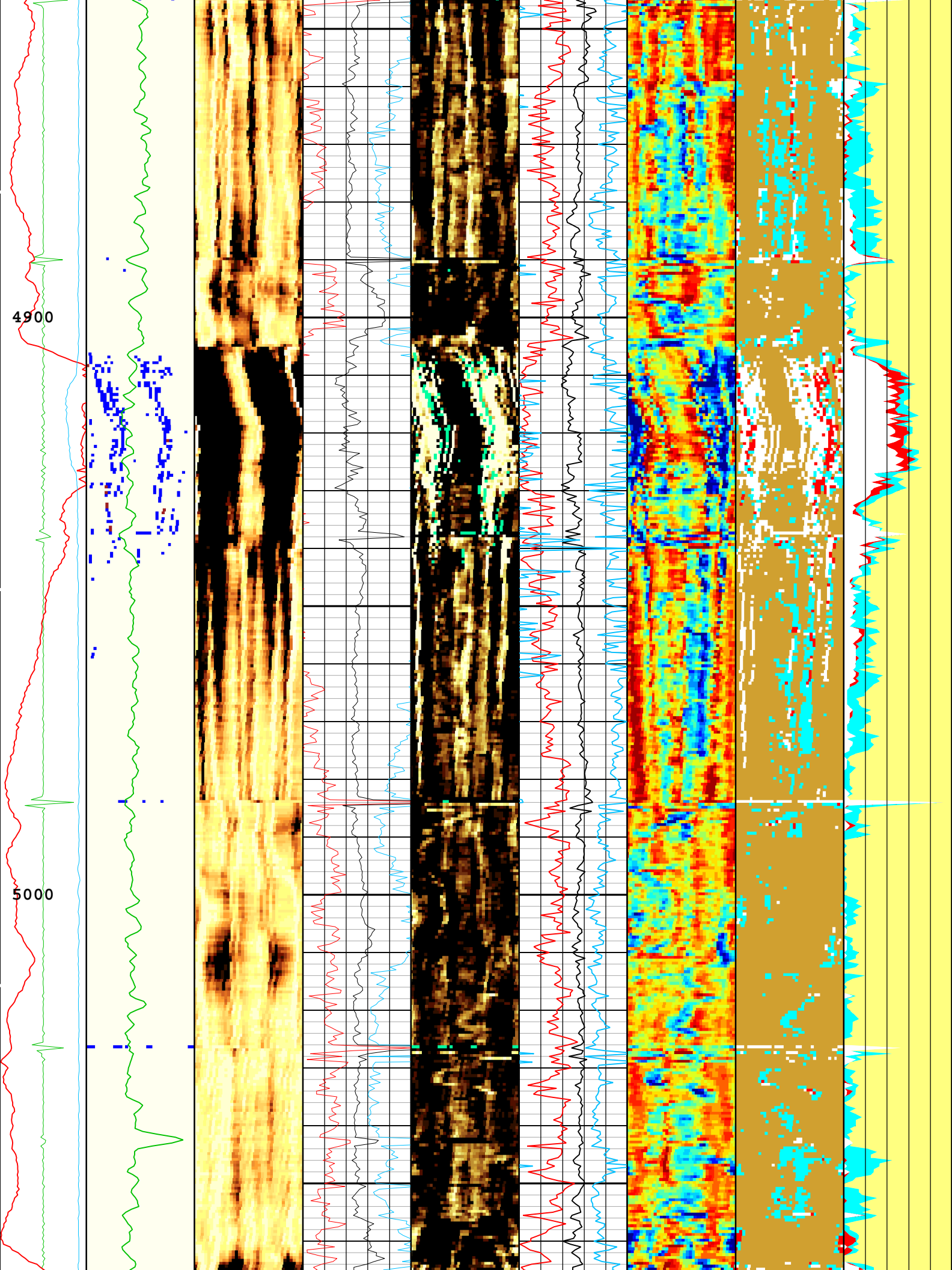


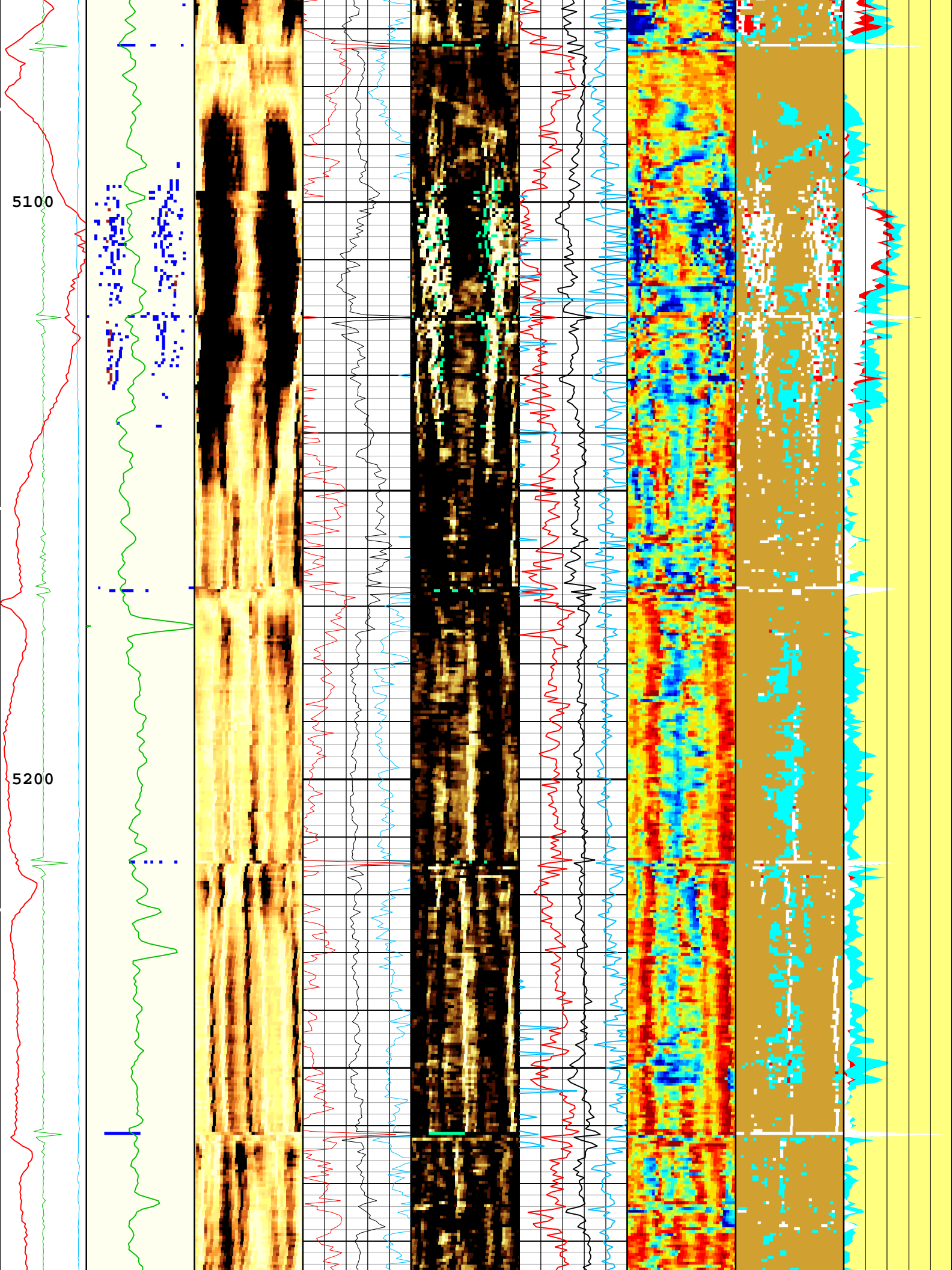


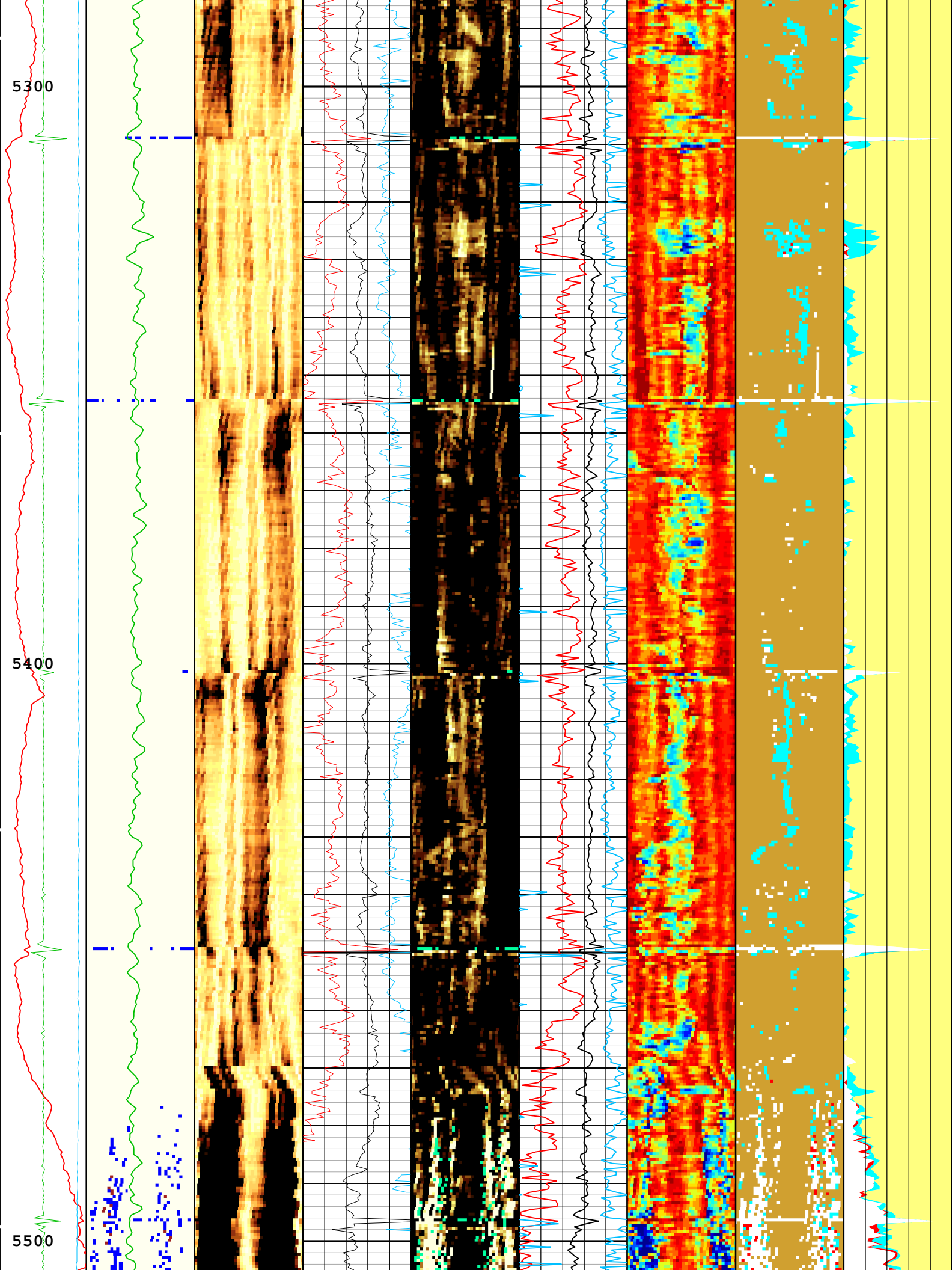


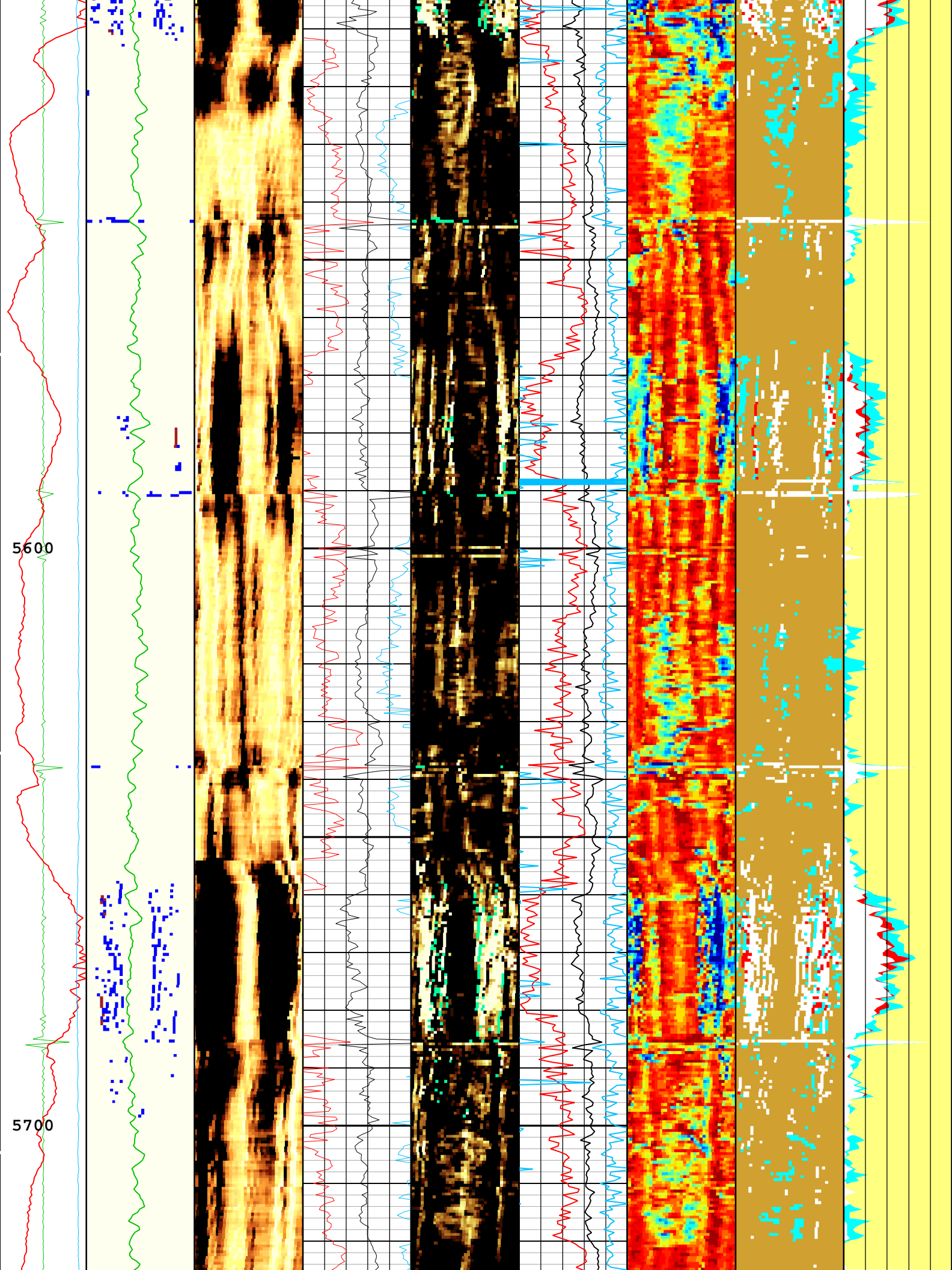


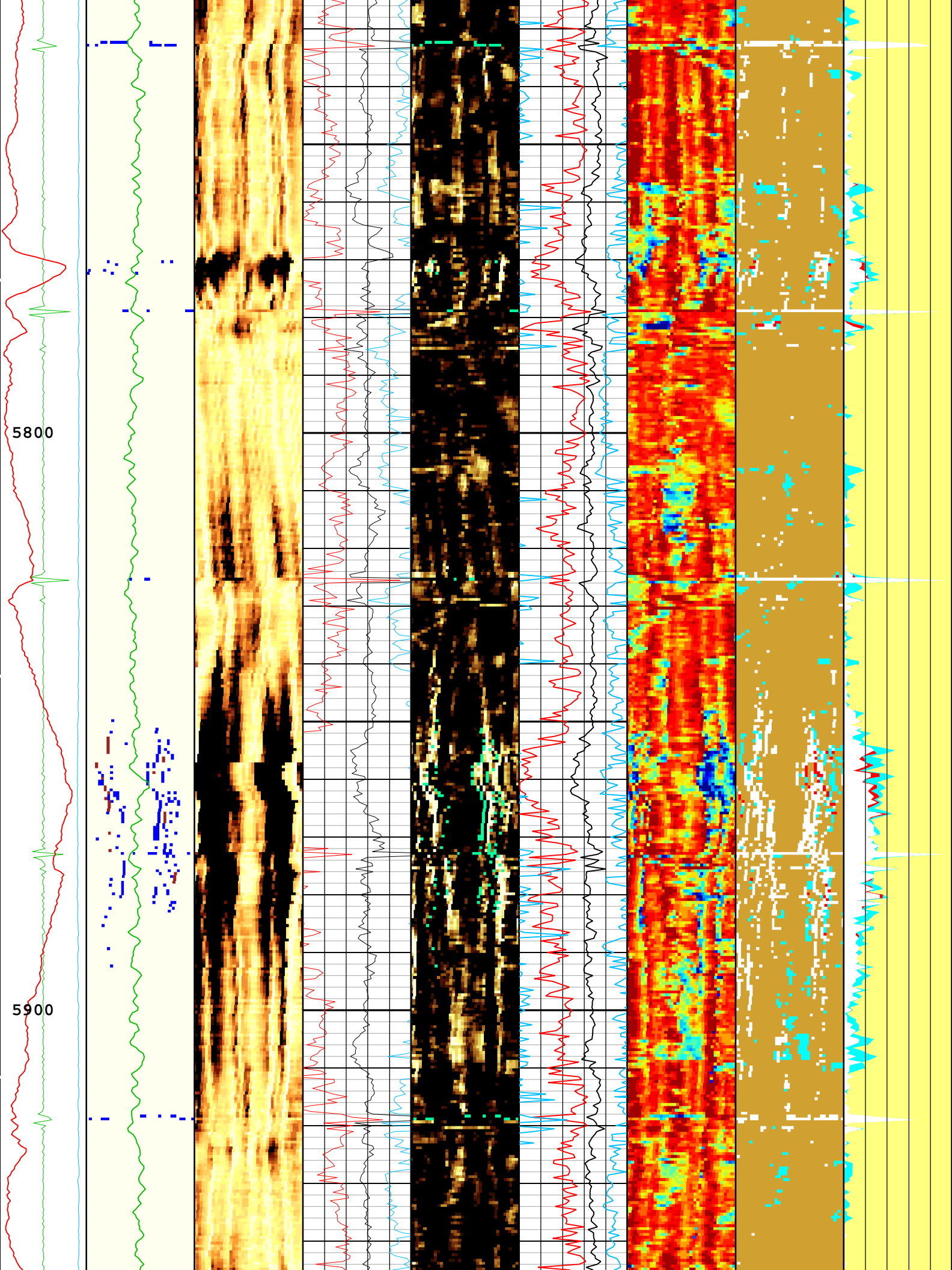


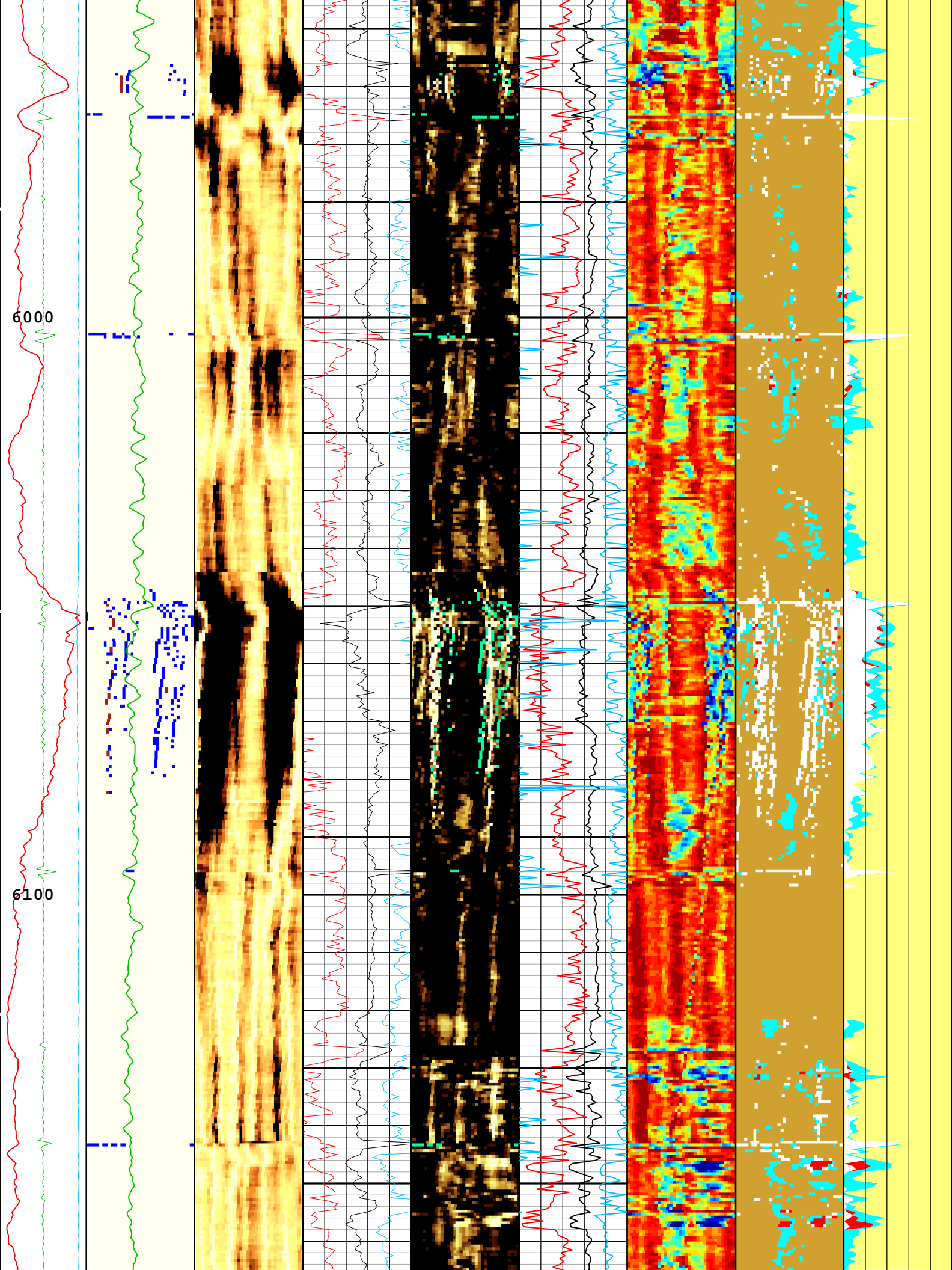


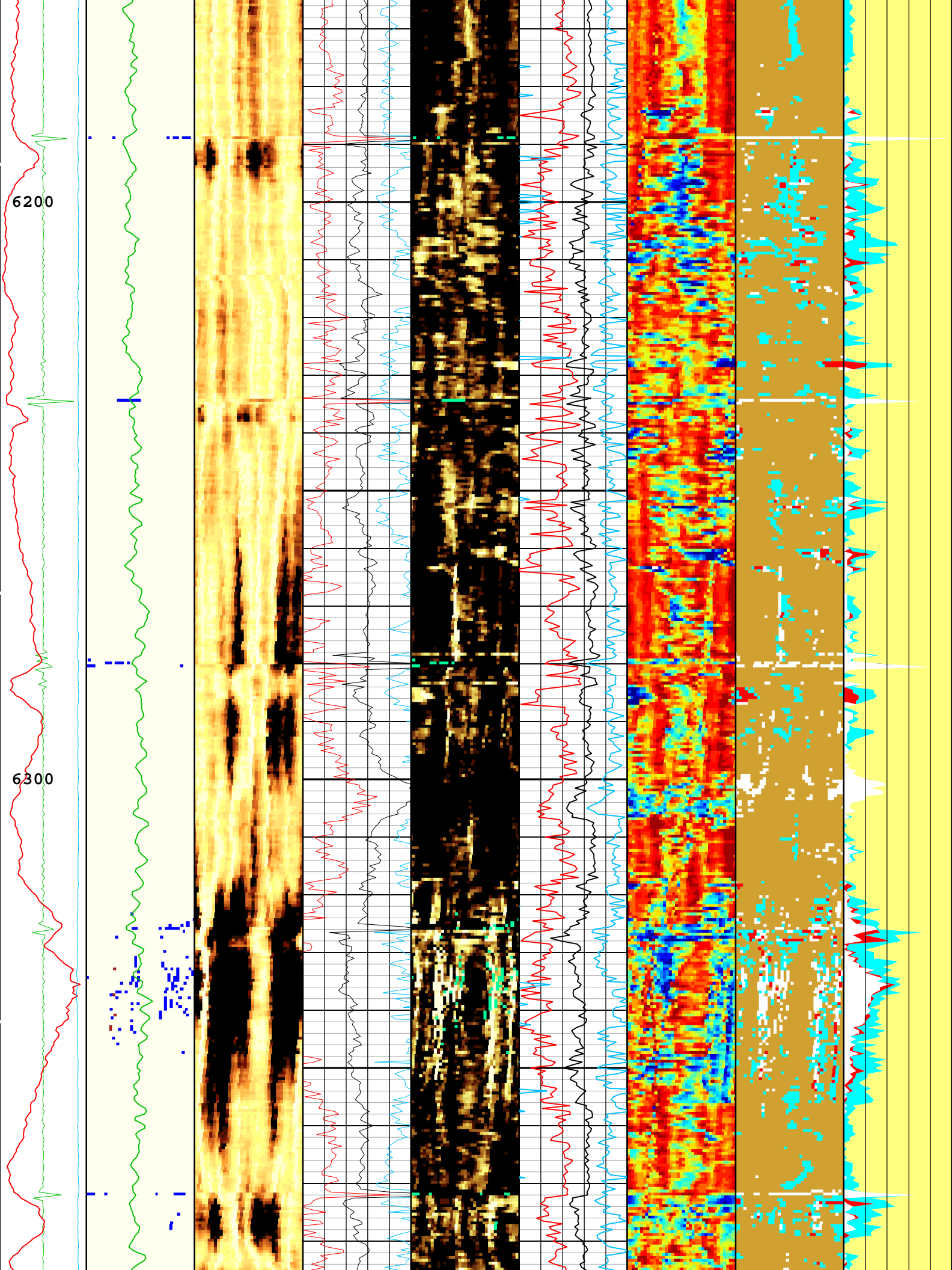


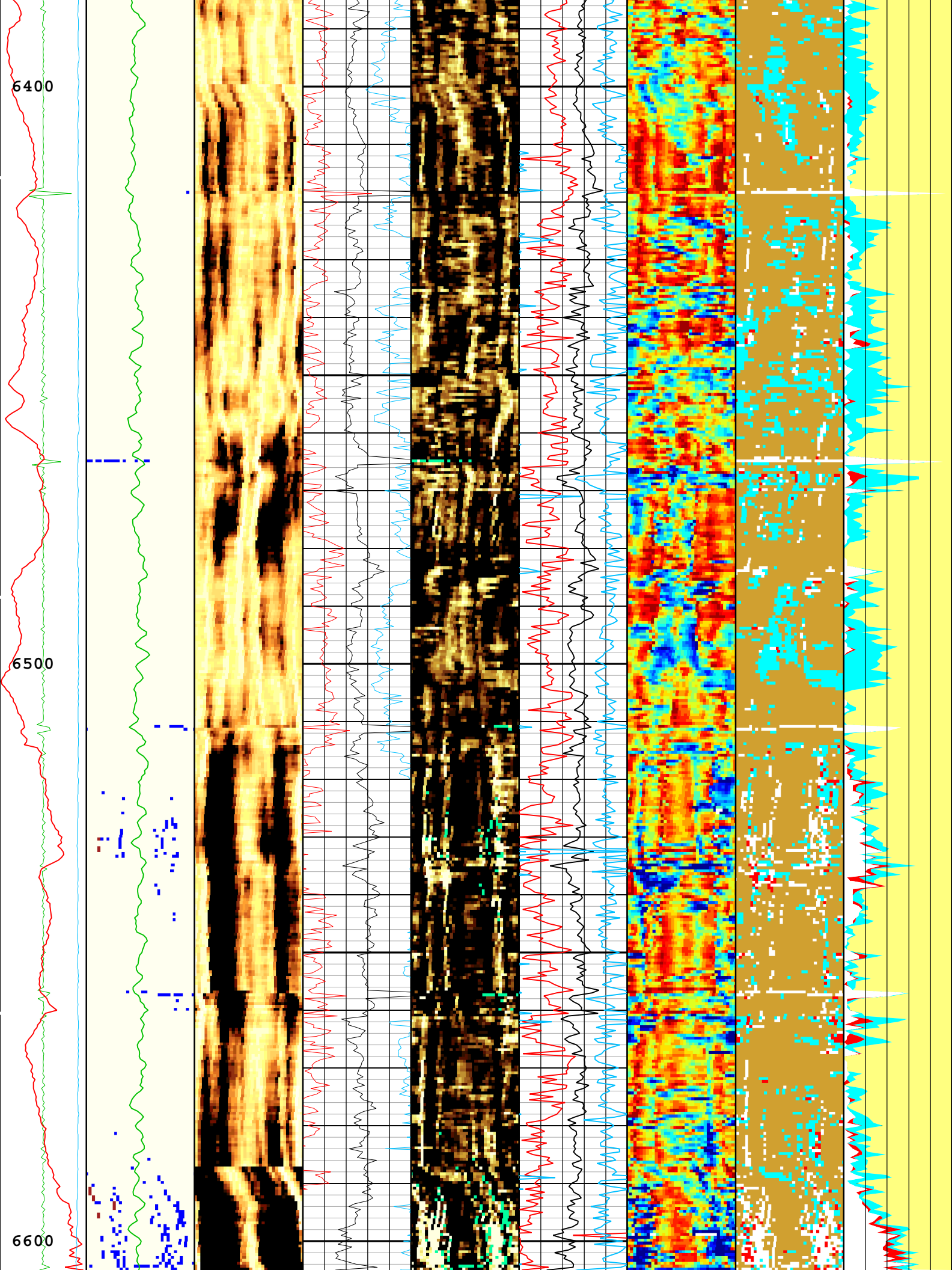


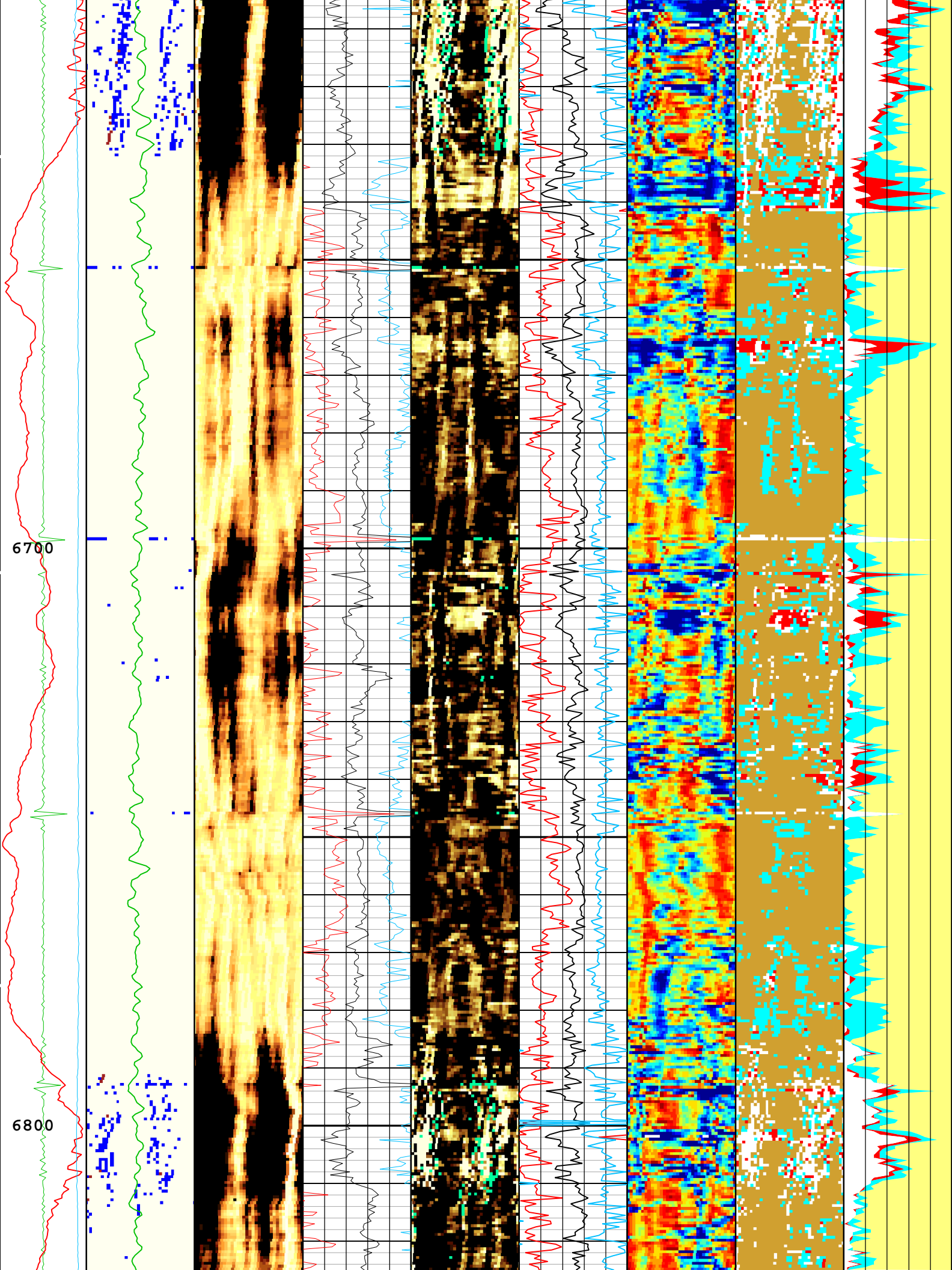


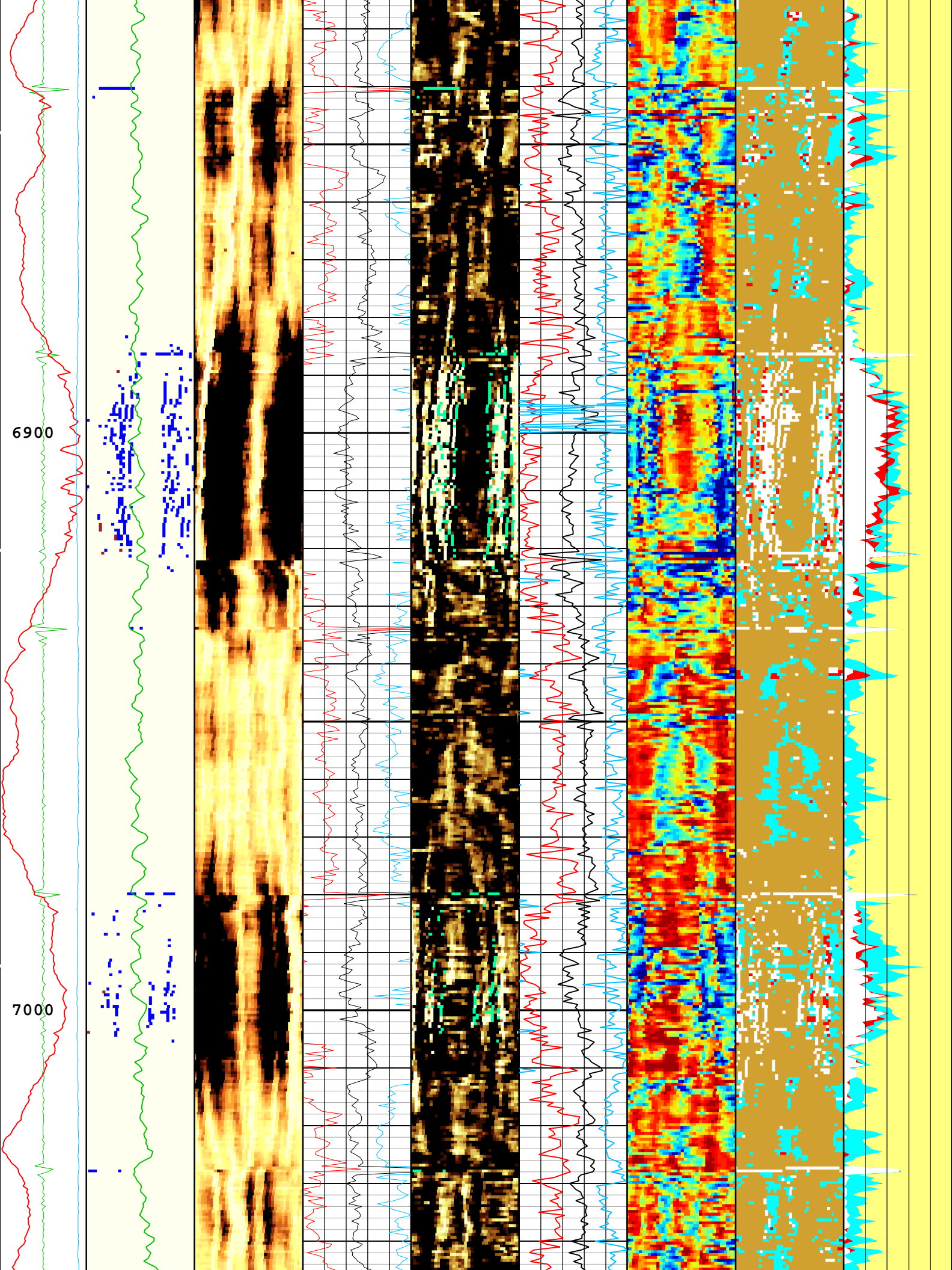


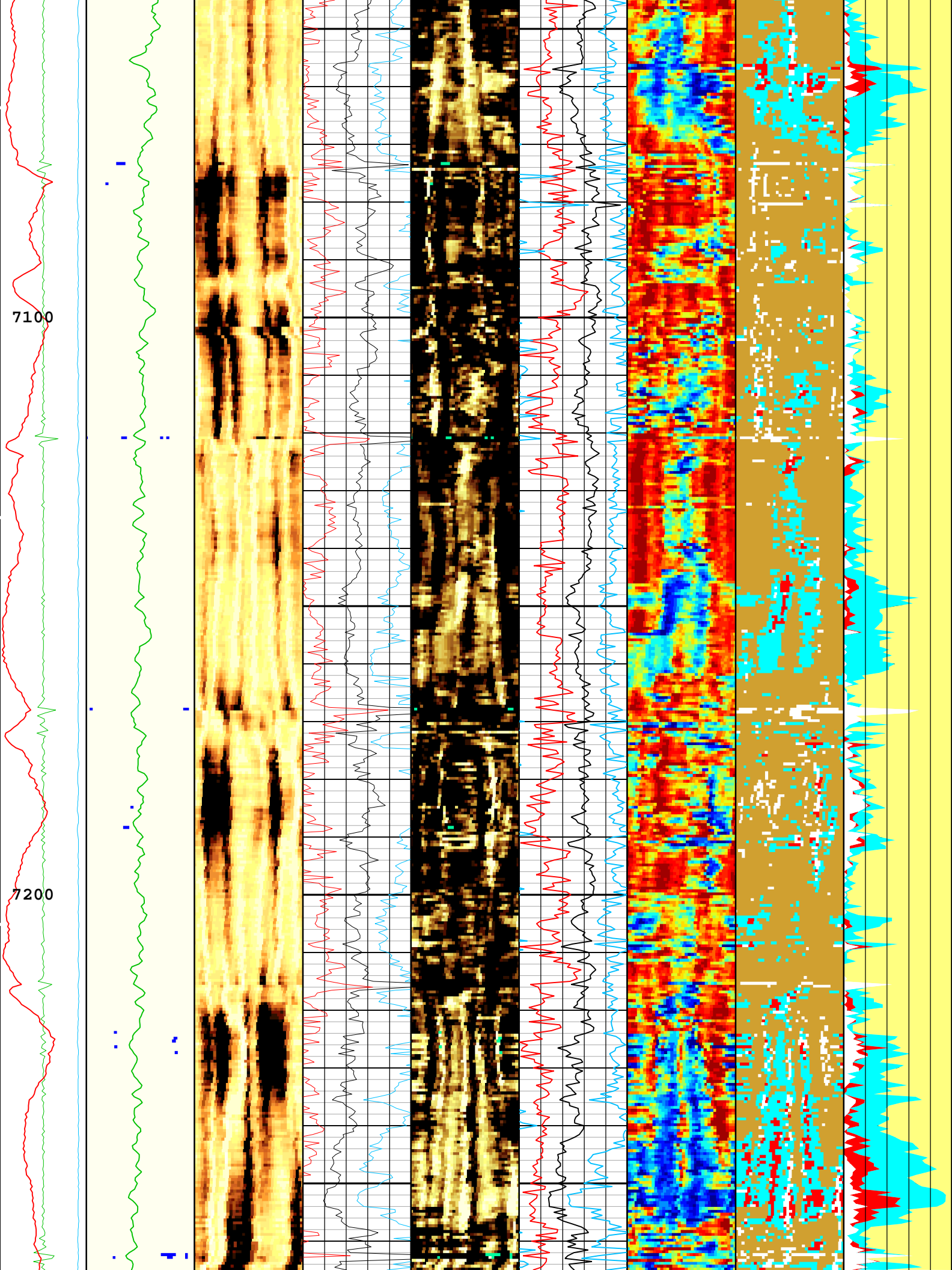


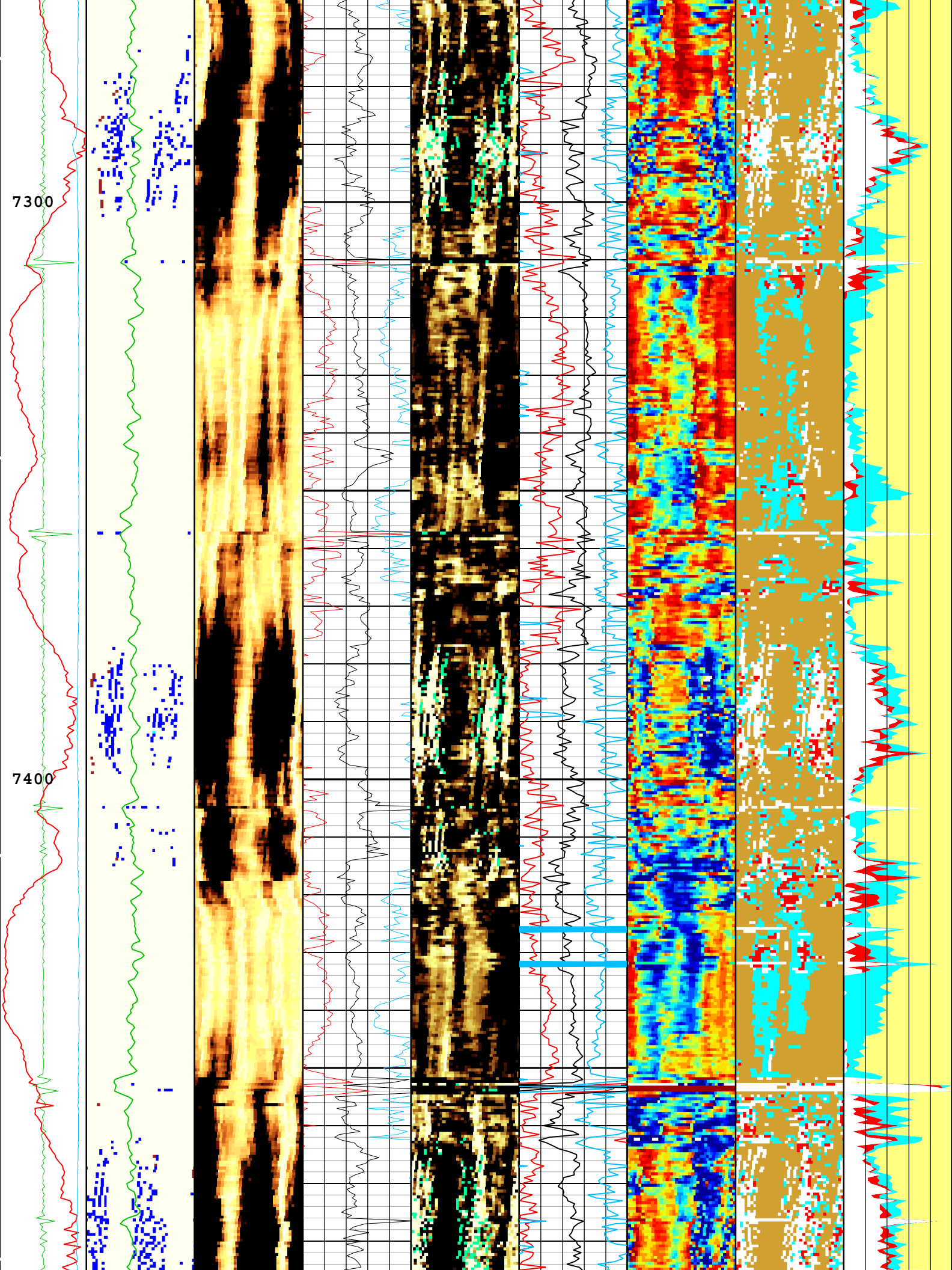


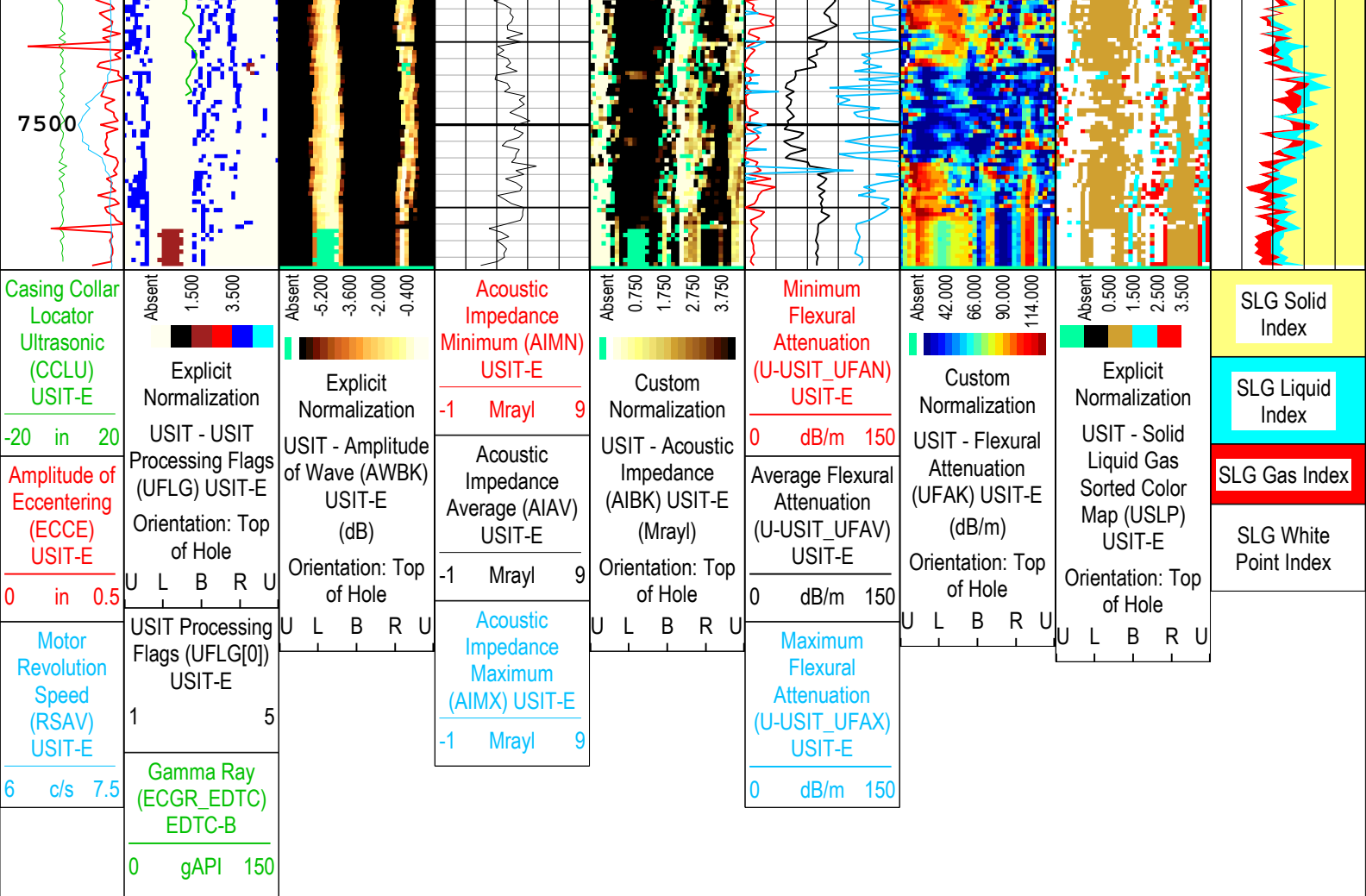












TIME_1900 - Time Marked every 60.00 (s)

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

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

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 22-Sep-2018 10:58:34

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BERJ	Bad Echo Rejection	USIT-E	On	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson Ratio	
CBLO	Casing Bottom (Logger)	WLSESSION	15734	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.4	lbm/gal

	Pass Delay	USIT-E	0	ms
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	-13.83	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	FreePipe Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.17	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.04	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
RCOD	Reference Calibrator Outer Diameter	USIT-E	4.5	in
RCSO	Reference Calibrator Standoff	USIT-E	0.842	in
RCTH	Reference Calibrator Thickness	USIT-E	0.216	in
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.67	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-10.51	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
USI_RPLUS	Ultrasonic R+ Processing	USIT-E	No	
THDP	Thickness Detection Policy	USIT-E	Fundamental	
VCAS	Ultrasonic Transversal Velocity in Casing	USIT-E	51.4	us/ft
ZCAS	Acoustic Impedance of Casing	USIT-E	46.25	Mrayl
ZINI	Initial Estimate of Cement Impedance	USIT-E	-1	Mrayl
ZMUD	Acoustic Impedance of Mud	Borehole	1.75	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	13.5	680	2220
BS	8.5	2220	7517.5

All depth are actual.

Tool Control Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOT(DOS)	Distance between Opposite Transducer Faces	USIT-E	1.756	in
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	

IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
MOTOR_PROTECT	Motor Protection	USIT-E	On	
UACLV_PERM	Ultrasonic ACLV Permanent	USIT-E	Yes	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	137	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	Time Zoned	us
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
USSP	Ultrasonic Service	USIT-E	IBC	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	Time Zoned	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	80	22-Sep-2018 08:16:11	22-Sep-2018 08:19:28	7518.57	7311.89
EMXV	90	22-Sep-2018 08:19:28	22-Sep-2018 08:20:50	7311.89	7216.16
EMXV	100	22-Sep-2018 08:20:50	22-Sep-2018 08:31:52	7216.16	6425.08
EMXV	110	22-Sep-2018 08:31:52	22-Sep-2018 08:47:03	6425.08	5356.48
EMXV	100	22-Sep-2018 08:47:03	22-Sep-2018 08:48:38	5356.48	5247.85
EMXV	80	22-Sep-2018 08:48:38	22-Sep-2018 09:55:15	5247.85	656.21
U-USIT_UFWE	177	22-Sep-2018 08:16:11	22-Sep-2018 08:33:44	7518.57	6286.94
U-USIT_UFWE	173.89	22-Sep-2018 08:33:44	22-Sep-2018 08:43:56	6286.94	5570.04
U-USIT_UFWE	178.83	22-Sep-2018 08:43:56	22-Sep-2018 08:44:19	5570.04	5543.53
U-USIT_UFWE	176.36	22-Sep-2018 08:44:19	22-Sep-2018 08:44:23	5543.53	5539.78
U-USIT_UFWE	171.41	22-Sep-2018 08:44:23	22-Sep-2018 09:04:31	5539.78	4159.83
U-USIT_UFWE	173.89	22-Sep-2018 09:04:31	22-Sep-2018 09:51:11	4159.83	935.63
U-USIT_UFWE	175.12	22-Sep-2018 09:51:11	22-Sep-2018 09:51:20	935.63	924.88
U-USIT_UFWE	178.83	22-Sep-2018 09:51:20	22-Sep-2018 09:55:15	924.88	656.21
U-USIT_UNWE	146	22-Sep-2018 08:16:11	22-Sep-2018 08:31:32	7518.57	6449.59
U-USIT_UNWE	141.75	22-Sep-2018 08:31:32	22-Sep-2018 09:51:15	6449.59	931.21
U-USIT_UNWE	146.69	22-Sep-2018 09:51:15	22-Sep-2018 09:55:15	931.21	656.21
WINB	31.88	22-Sep-2018 08:16:11	22-Sep-2018 08:16:32	7518.57	7513.57
WINB	28.7	22-Sep-2018 08:16:32	22-Sep-2018 08:16:51	7513.57	7492.2
WINB	24.17	22-Sep-2018 08:16:51	22-Sep-2018 08:22:44	7492.2	7082.03
WINB	25.08	22-Sep-2018 08:22:44	22-Sep-2018 08:43:39	7082.03	5589.83
WINB	27.8	22-Sep-2018 08:43:39	22-Sep-2018 08:48:20	5589.83	5268.09
WINB	25.81	22-Sep-2018 08:48:20	22-Sep-2018 09:10:22	5268.09	3746.06
WINB	27.8	22-Sep-2018 09:10:22	22-Sep-2018 09:55:15	3746.06	656.21
WINE	71.88	22-Sep-2018 08:16:11	22-Sep-2018 08:16:48	7518.57	7495.97
WINE	68.59	22-Sep-2018 08:16:48	22-Sep-2018 08:17:42	7495.97	7433.42
WINE	72.02	22-Sep-2018 08:17:42	22-Sep-2018 08:17:47	7433.42	7427.39

WINE	72.83	22-Sep-2018 08:17:47	22-Sep-2018 09:55:15	7427.39	656.21
------	-------	----------------------	----------------------	---------	--------

All depth are at tool zero.

ONE

IBC SLG Composite

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[6]:Up	Up	656.21 ft	7518.57 ft	22-Sep-2018 8:16:11 AM	22-Sep-2018 9:55:15 AM	ON	7.15 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources Operating LLC

Well:Davis 1M-9H-G266






ONE: Log[6]:Up:S006

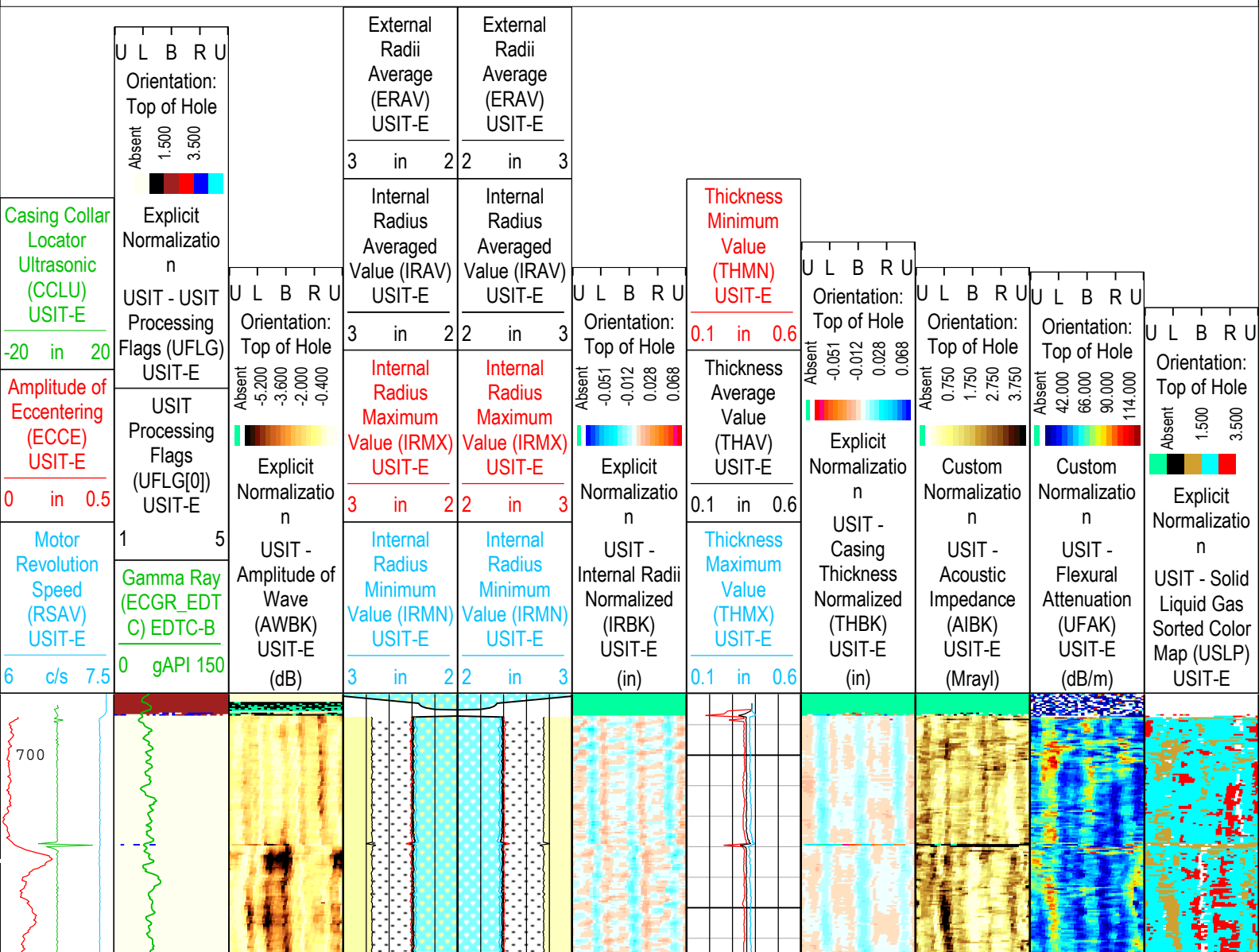
Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth

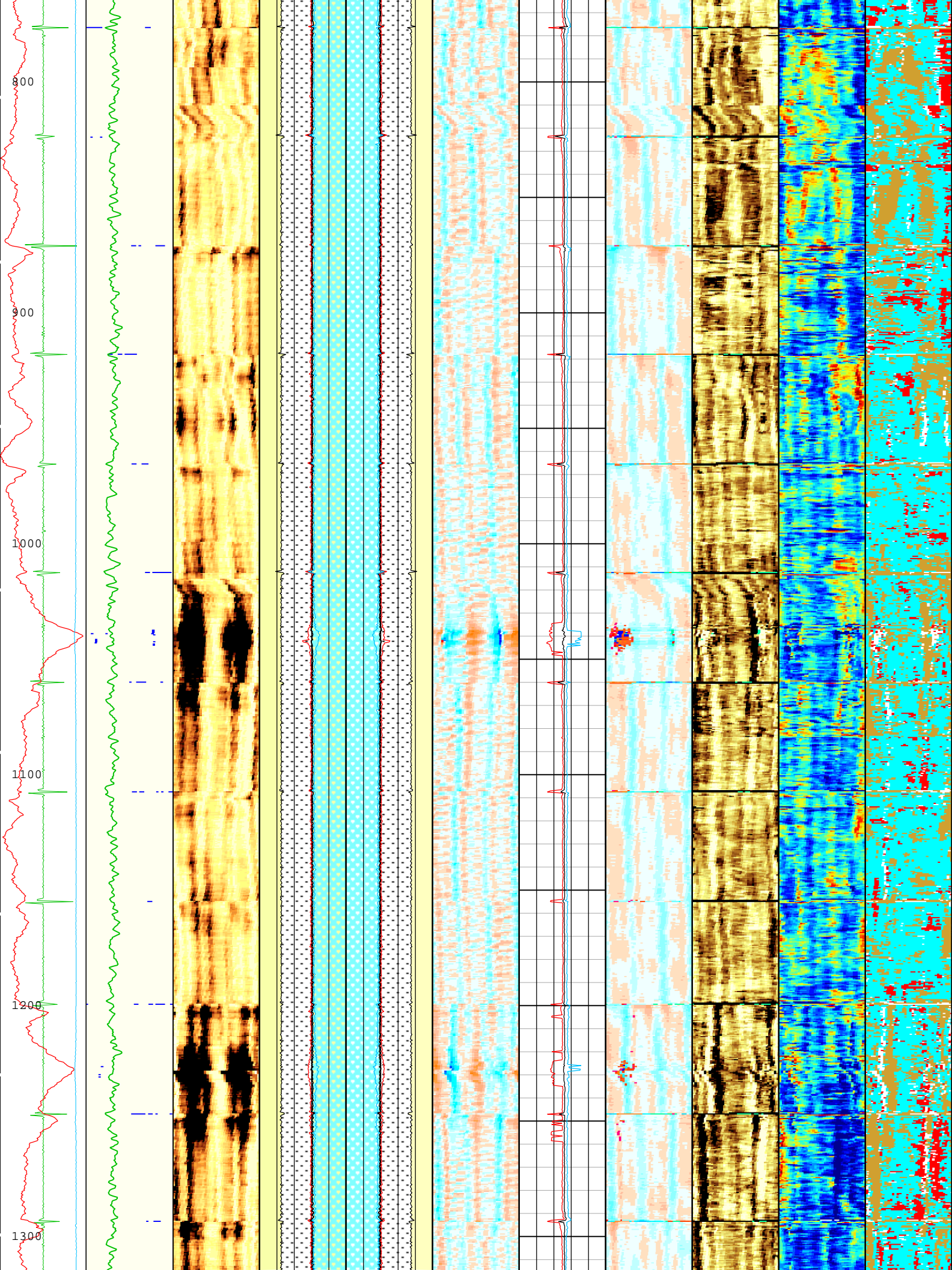
Creation Date: 22-Sep-2018 10:58:47

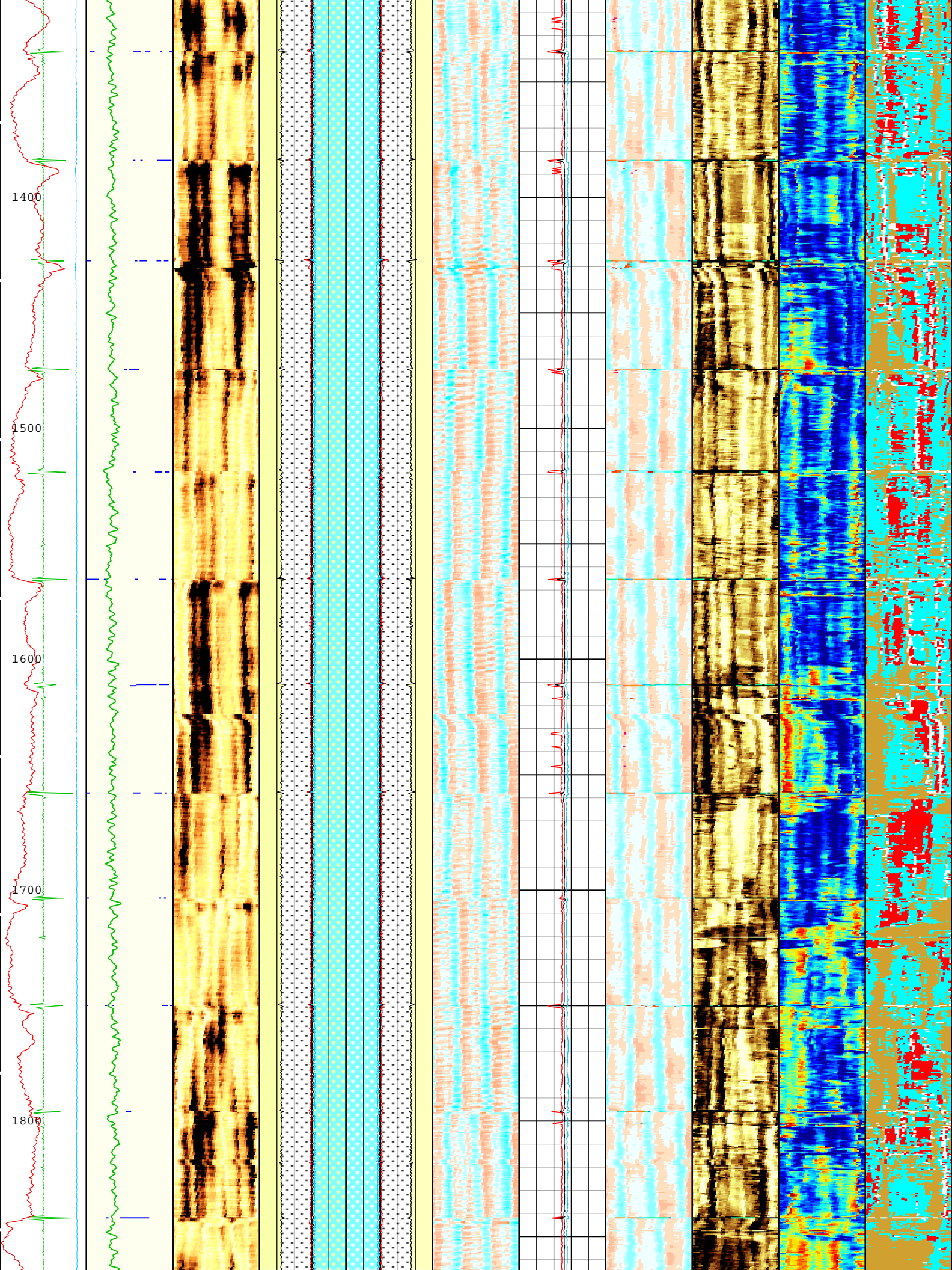
TIME_1900 - Time Marked every 60.00 (s)

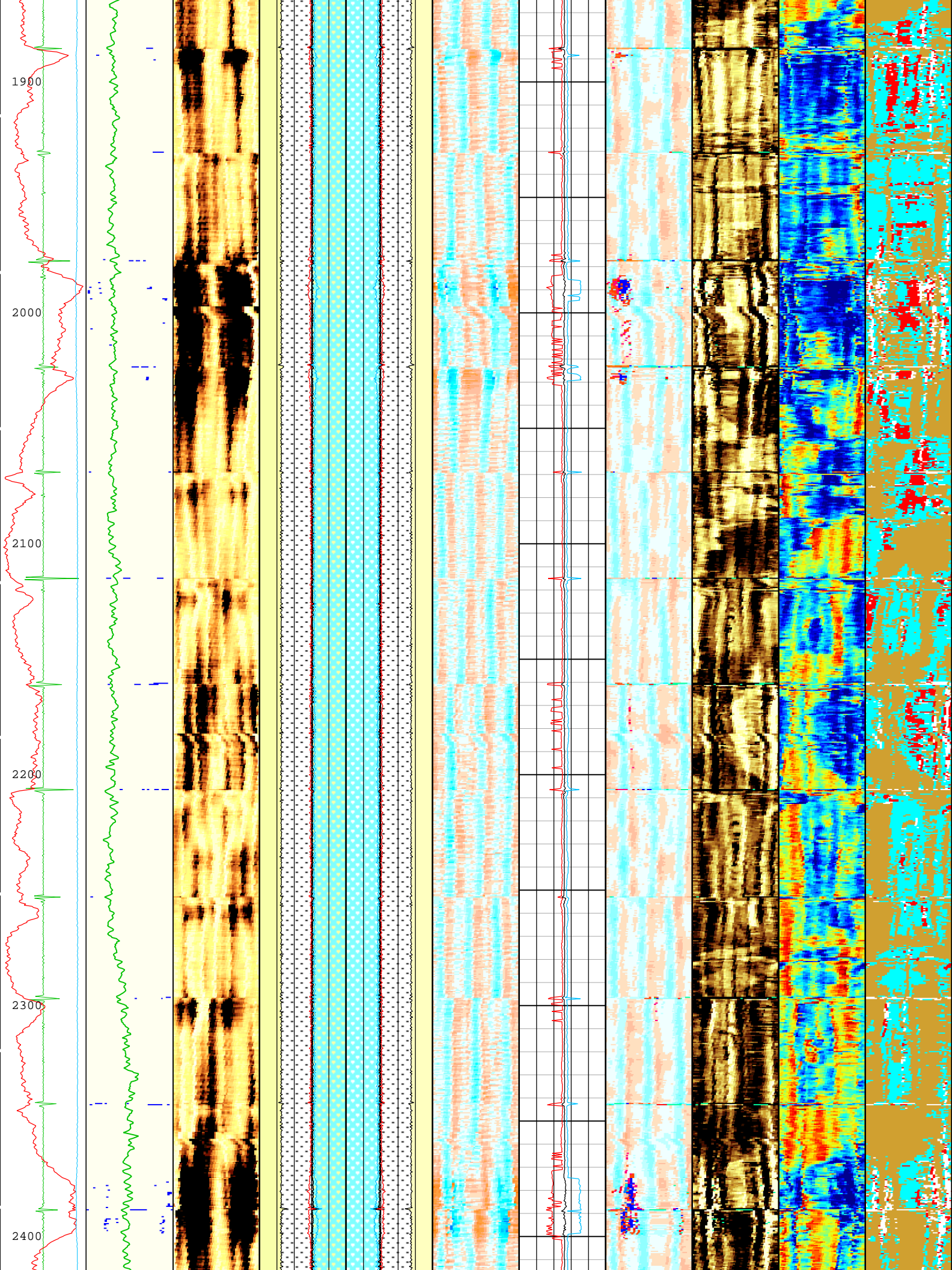
USIT Processing Flags (UFLG[0]) USIT-E

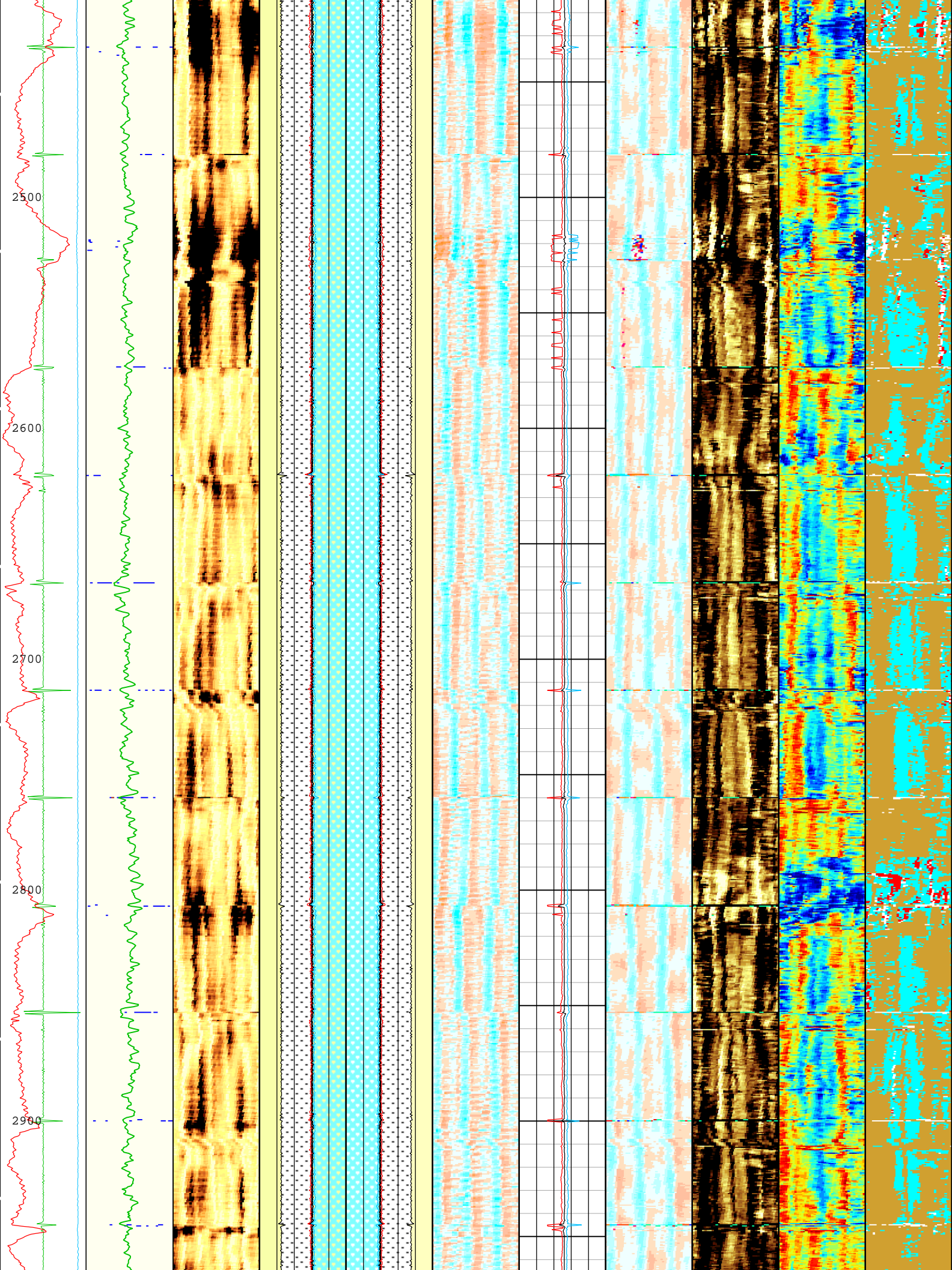
- 1 - UFLG 1 Value within [0.0 - 1.5] - :  UTIM Error
- 2 - UFLG 2 Value within [1.5 - 2.5] - :  Pulse Origin Not Detected
- 3 - UFLG 3 Value within [2.5 - 3.5] - :  WINLEN Error
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :  Casing Thickness Error
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5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

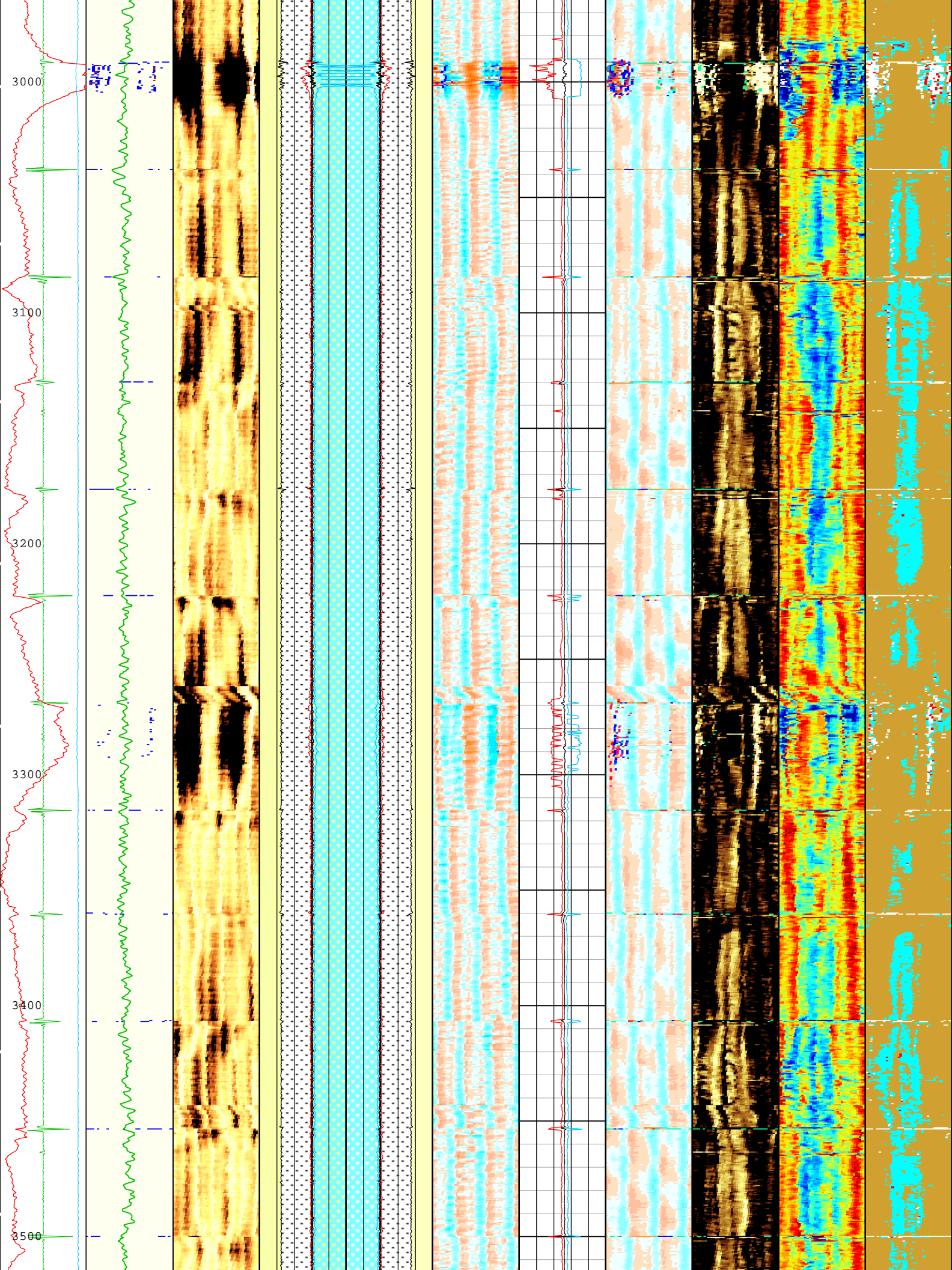


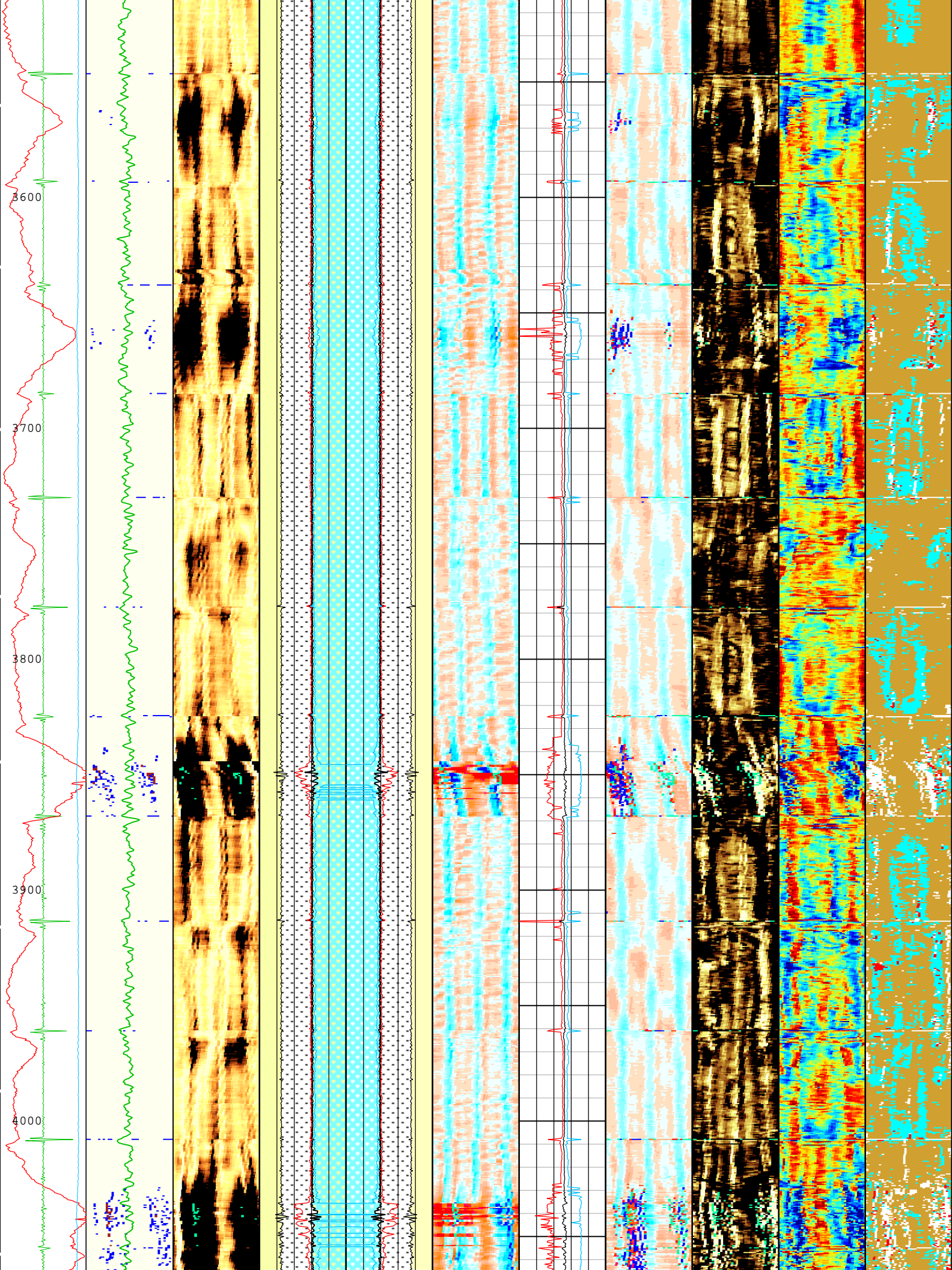


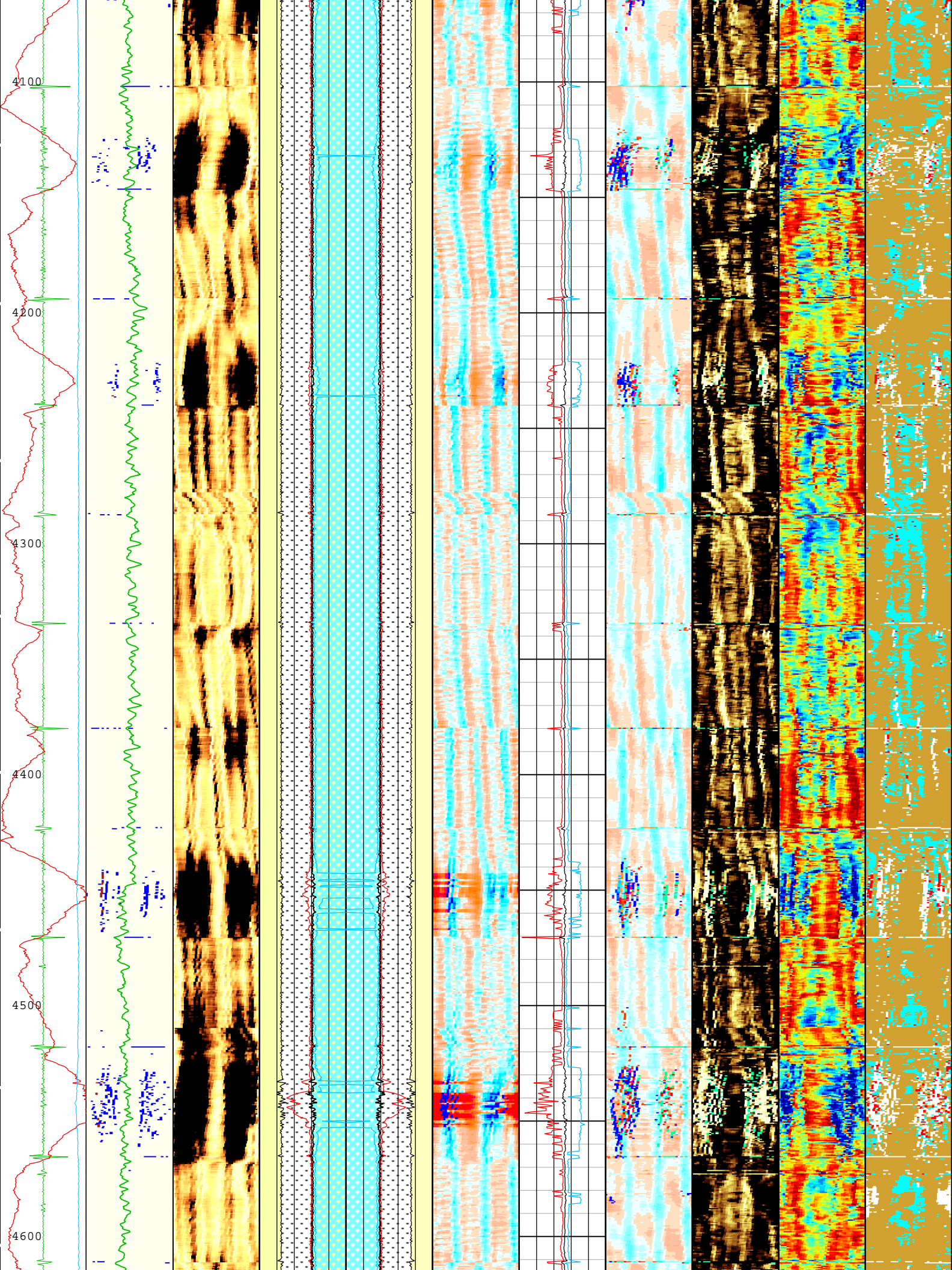


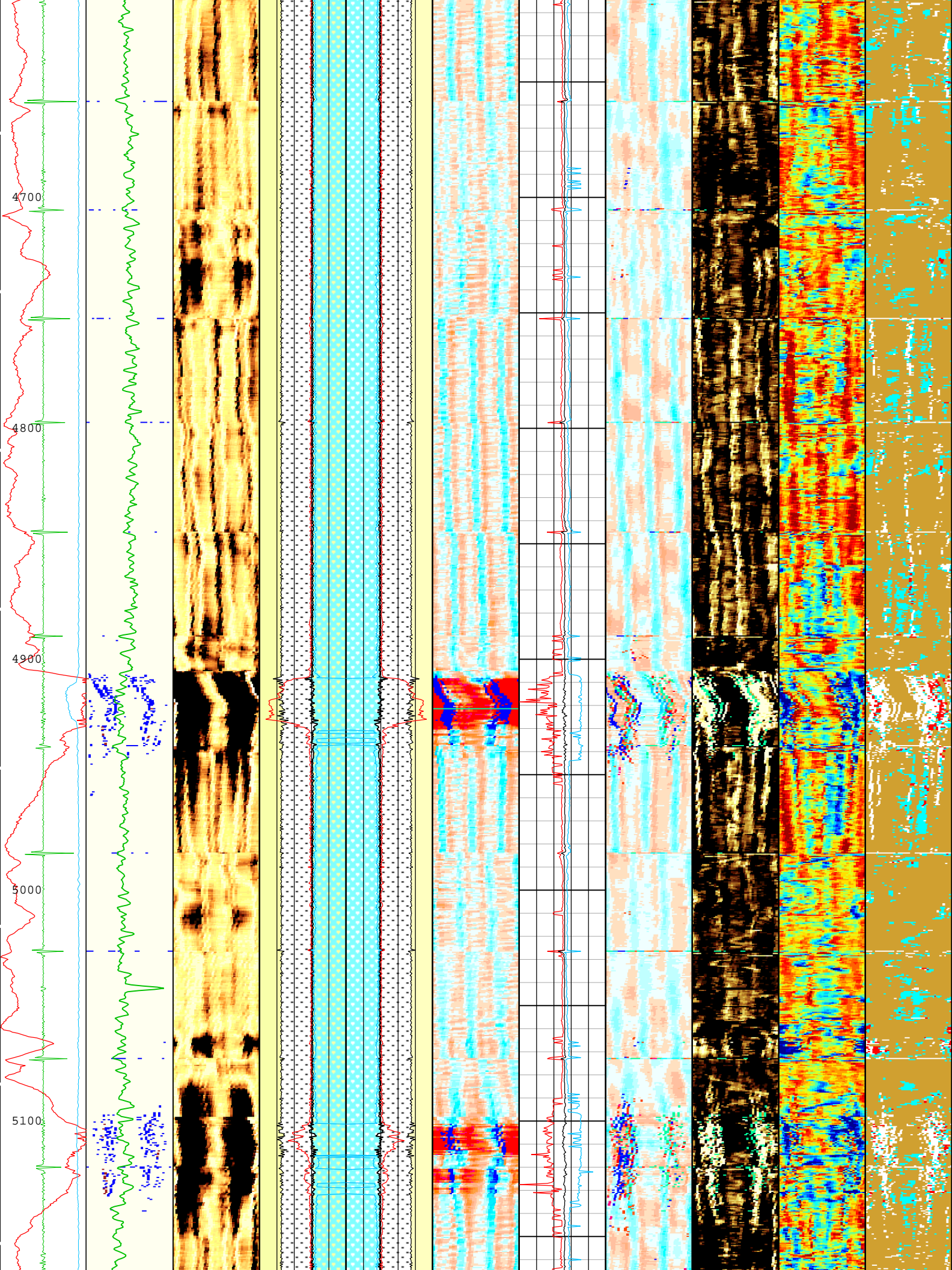


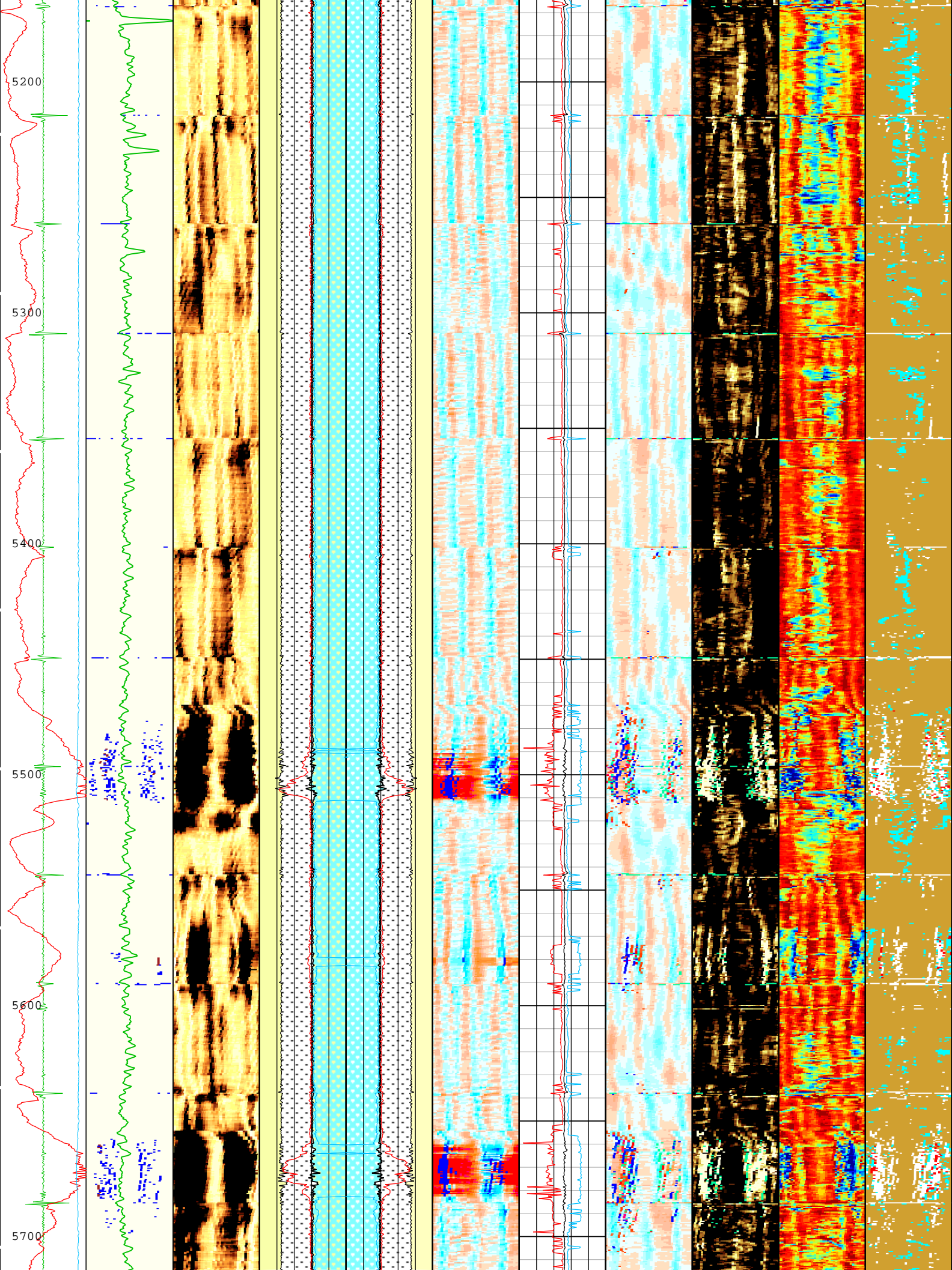


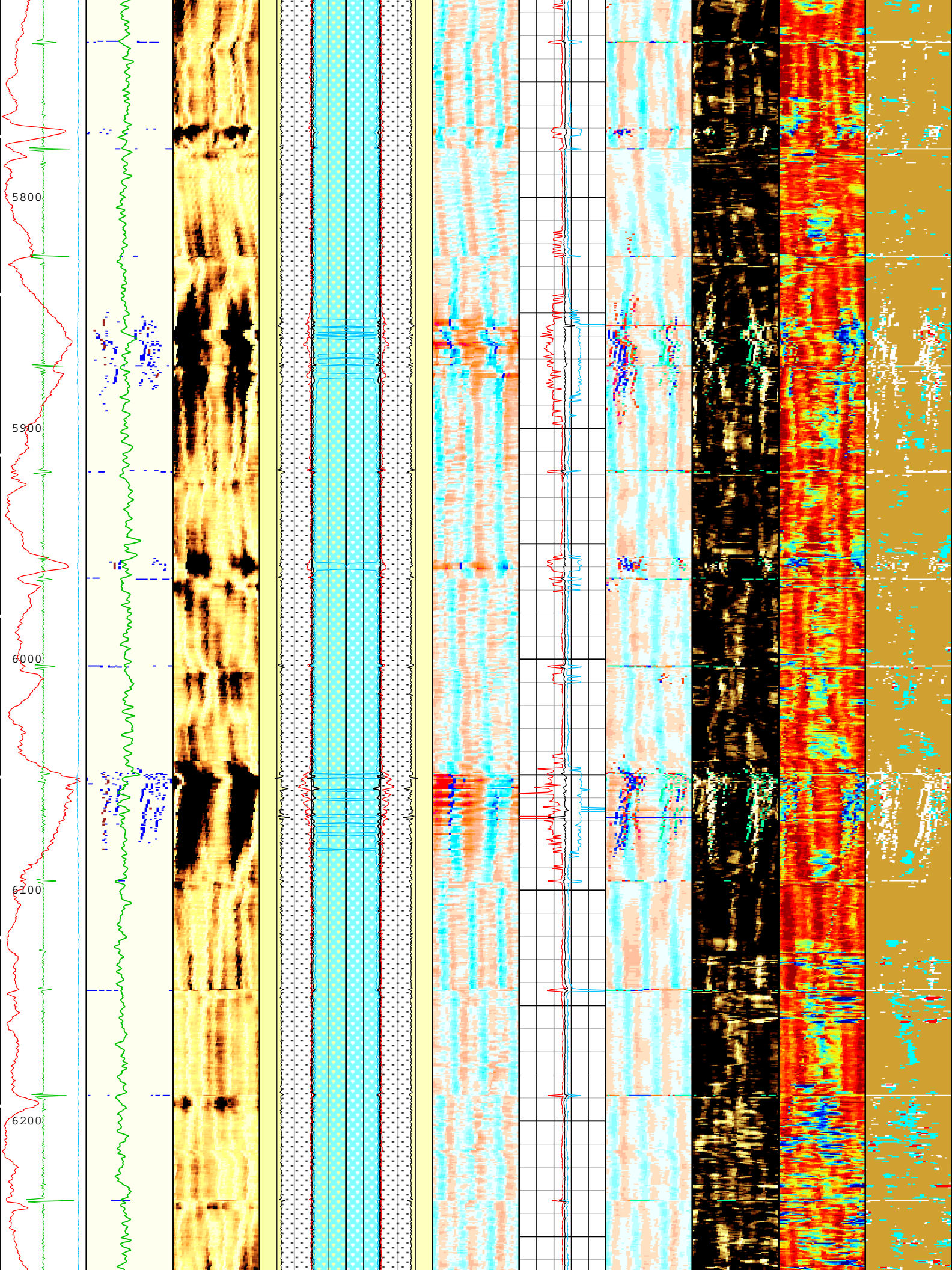


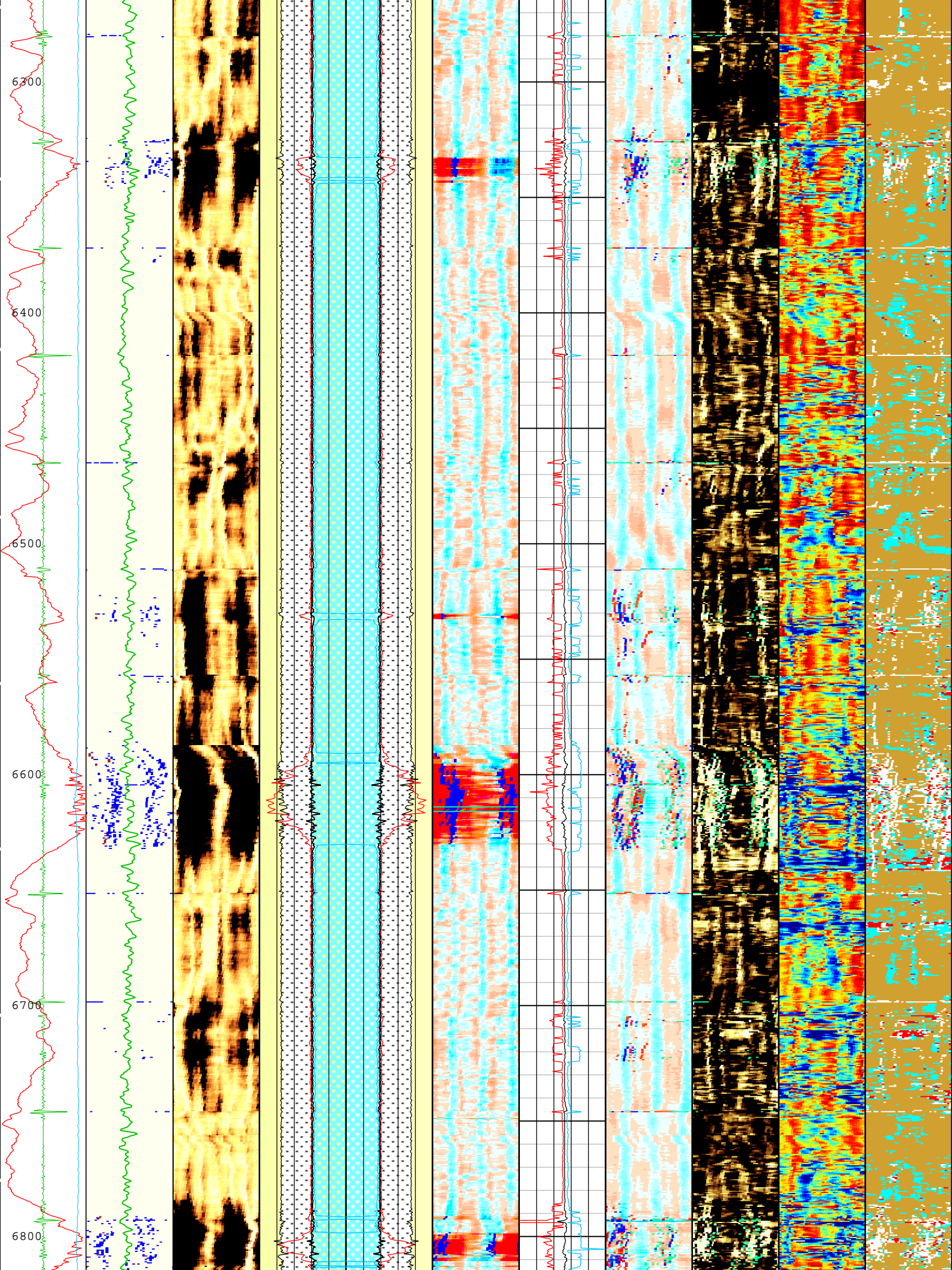


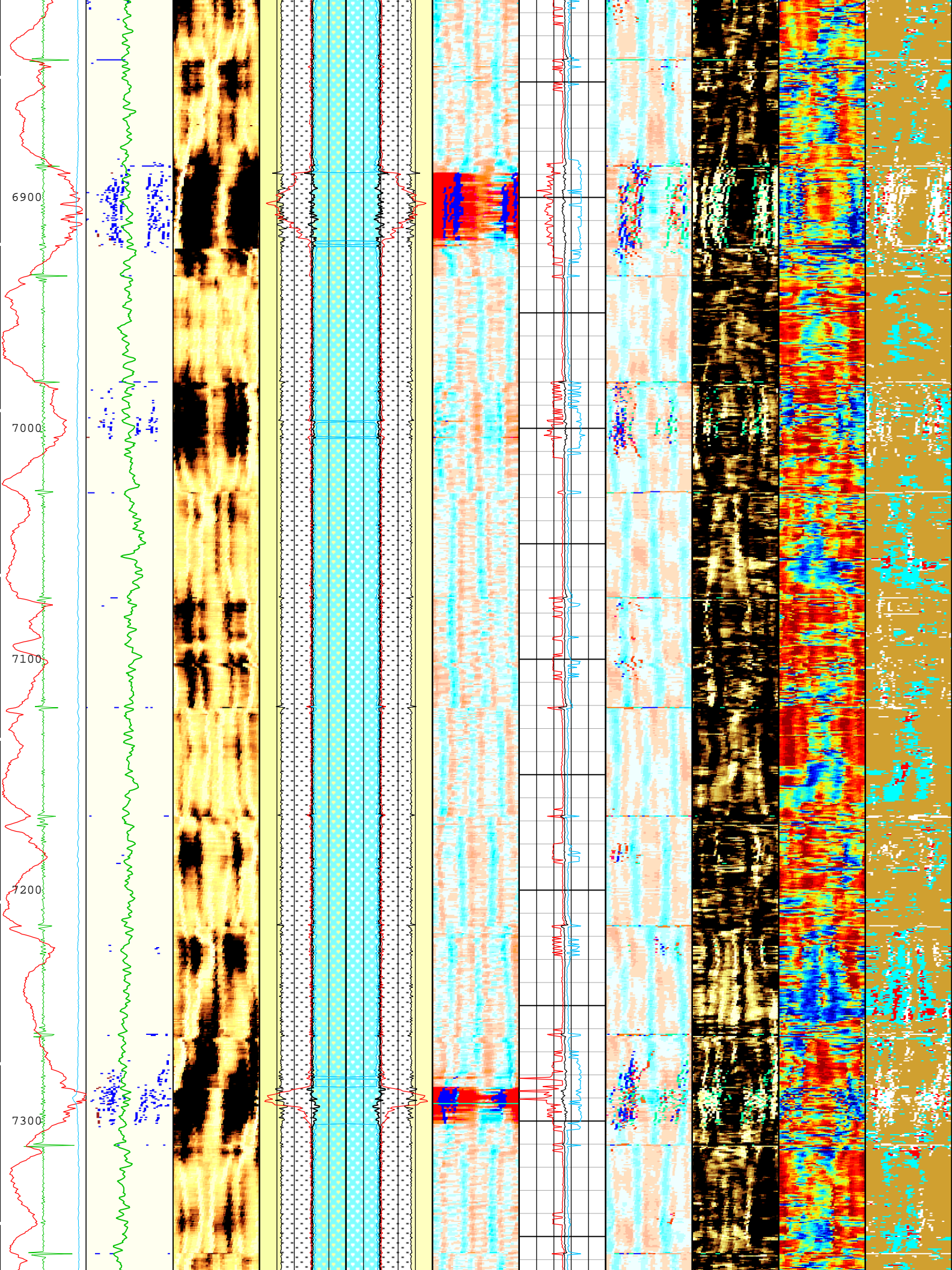


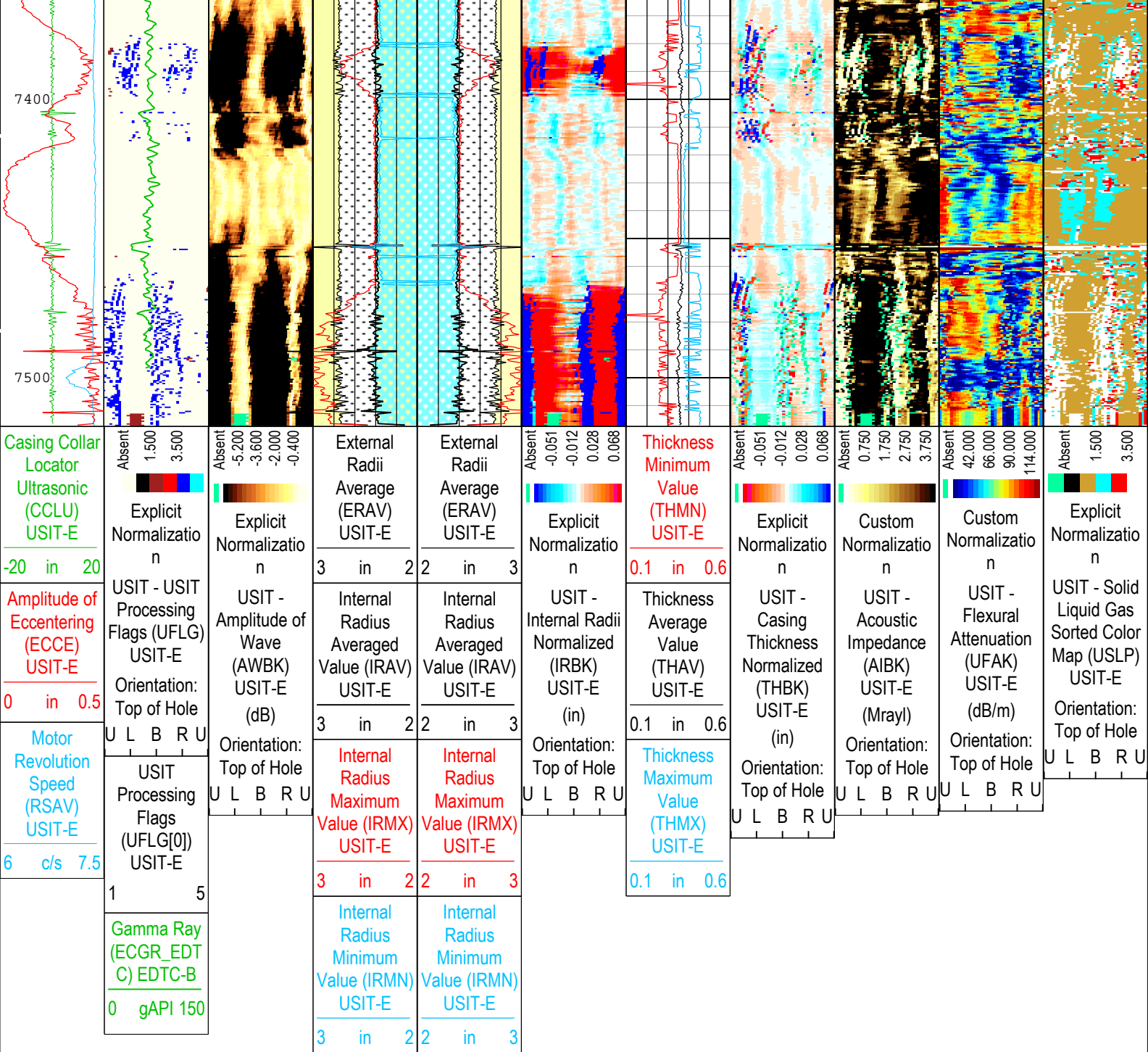












USIT Processing Flags (UFLG[0]) USIT-E

- | | |
|---|---------------------------|
| 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 Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 22-Sep-2018 10:58:47

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in

CBLO	Casing Bottom (Logger)	WLSESSION	15734	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.4	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-13.83	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	FreePipe Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.17	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.04	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.67	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-10.51	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.75	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	13.5	680	2220
BS	8.5	2220	7517.5
All depth are actual.			

Tool Control Parameters	
-------------------------	--

ONE: Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	137	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	Time Zoned	us
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINR	Window Begin Time	USIT-E	Time Zoned	us

WINB	Window Begin Time	USIT-E	Time Zoned	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	80	22-Sep-2018 08:16:11	22-Sep-2018 08:19:28	7518.57	7311.89
EMXV	90	22-Sep-2018 08:19:28	22-Sep-2018 08:20:50	7311.89	7216.16
EMXV	100	22-Sep-2018 08:20:50	22-Sep-2018 08:31:52	7216.16	6425.08
EMXV	110	22-Sep-2018 08:31:52	22-Sep-2018 08:47:03	6425.08	5356.48
EMXV	100	22-Sep-2018 08:47:03	22-Sep-2018 08:48:38	5356.48	5247.85
EMXV	80	22-Sep-2018 08:48:38	22-Sep-2018 09:55:15	5247.85	656.21
U-USIT_UFWE	177	22-Sep-2018 08:16:11	22-Sep-2018 08:33:44	7518.57	6286.94
U-USIT_UFWE	173.89	22-Sep-2018 08:33:44	22-Sep-2018 08:43:56	6286.94	5570.04
U-USIT_UFWE	178.83	22-Sep-2018 08:43:56	22-Sep-2018 08:44:19	5570.04	5543.53
U-USIT_UFWE	176.36	22-Sep-2018 08:44:19	22-Sep-2018 08:44:23	5543.53	5539.78
U-USIT_UFWE	171.41	22-Sep-2018 08:44:23	22-Sep-2018 09:04:31	5539.78	4159.83
U-USIT_UFWE	173.89	22-Sep-2018 09:04:31	22-Sep-2018 09:51:11	4159.83	935.63
U-USIT_UFWE	175.12	22-Sep-2018 09:51:11	22-Sep-2018 09:51:20	935.63	924.88
U-USIT_UFWE	178.83	22-Sep-2018 09:51:20	22-Sep-2018 09:55:15	924.88	656.21
U-USIT_UNWE	146	22-Sep-2018 08:16:11	22-Sep-2018 08:31:32	7518.57	6449.59
U-USIT_UNWE	141.75	22-Sep-2018 08:31:32	22-Sep-2018 09:51:15	6449.59	931.21
U-USIT_UNWE	146.69	22-Sep-2018 09:51:15	22-Sep-2018 09:55:15	931.21	656.21
WINB	31.88	22-Sep-2018 08:16:11	22-Sep-2018 08:16:32	7518.57	7513.57
WINB	28.7	22-Sep-2018 08:16:32	22-Sep-2018 08:16:51	7513.57	7492.2
WINB	24.17	22-Sep-2018 08:16:51	22-Sep-2018 08:22:44	7492.2	7082.03
WINB	25.08	22-Sep-2018 08:22:44	22-Sep-2018 08:43:39	7082.03	5589.83
WINB	27.8	22-Sep-2018 08:43:39	22-Sep-2018 08:48:20	5589.83	5268.09
WINB	25.81	22-Sep-2018 08:48:20	22-Sep-2018 09:10:22	5268.09	3746.06
WINB	27.8	22-Sep-2018 09:10:22	22-Sep-2018 09:55:15	3746.06	656.21
WINE	71.88	22-Sep-2018 08:16:11	22-Sep-2018 08:16:48	7518.57	7495.97
WINE	68.59	22-Sep-2018 08:16:48	22-Sep-2018 08:17:42	7495.97	7433.42
WINE	72.02	22-Sep-2018 08:17:42	22-Sep-2018 08:17:47	7433.42	7427.39
WINE	72.83	22-Sep-2018 08:17:47	22-Sep-2018 09:55:15	7427.39	656.21

All depth are at tool zero.

ONE

IBC Goodwin Compressed

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[6]:Up	Up	656.21 ft	7518.57 ft	22-Sep-2018 8:16:11 AM	22-Sep-2018 9:55:15 AM	ON	7.15 ft	Yes

All depths are referenced to toolstring zero

Log

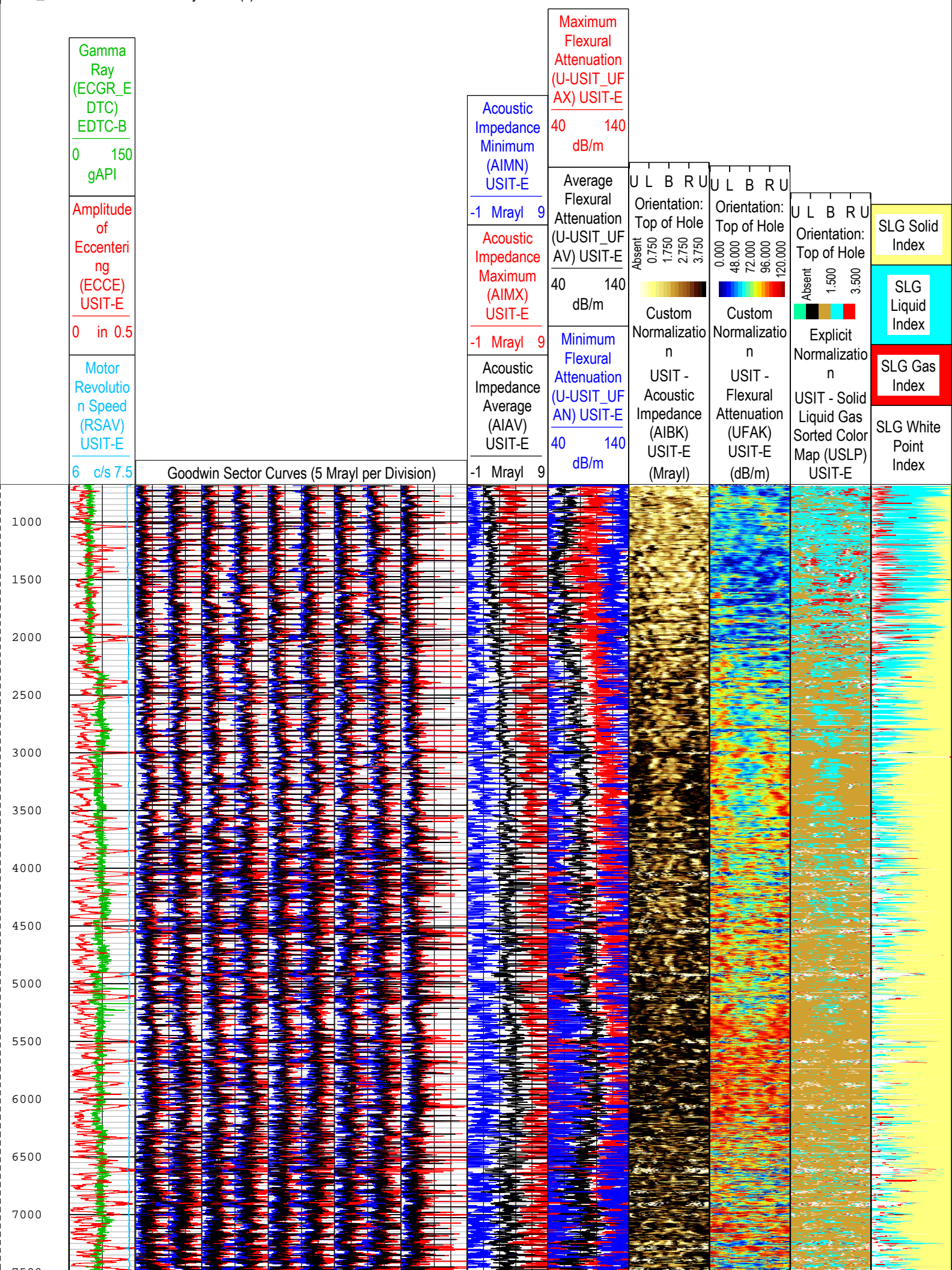
Company:Crestone Peak Resources Operating LLC

Well:Davis 1M-9H-G266

ONE: Log[6]:Up:S006

Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 22-Sep-2018 10:58:57

TIME_1900 - Time Marked every 60.00 (s)



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

TIME_1900 - Time Marked every 60.00 (s)

Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 22-Sep-2018 10:58:57

ONE									
IBC SLG									
Software Version									
Acquisition System						Version			
Maxwell 2018 SP2						8.2.104493.3100			
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	2749.16 ft	3013.00 ft	22-Sep-2018 7:51:42 AM	22-Sep-2018 7:55:56 AM	ON	2.49 ft	Yes
All depths are referenced to toolstring zero									
Log	Company:Crestone Peak Resources Operating LLC						Well:Davis 1M-9H-G266		
	ONE: Log[4]:Up:S006								

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 22-Sep-2018 10:59:02

TIME_1900 - Time Marked every 60.00 (s)

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

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

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

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

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

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

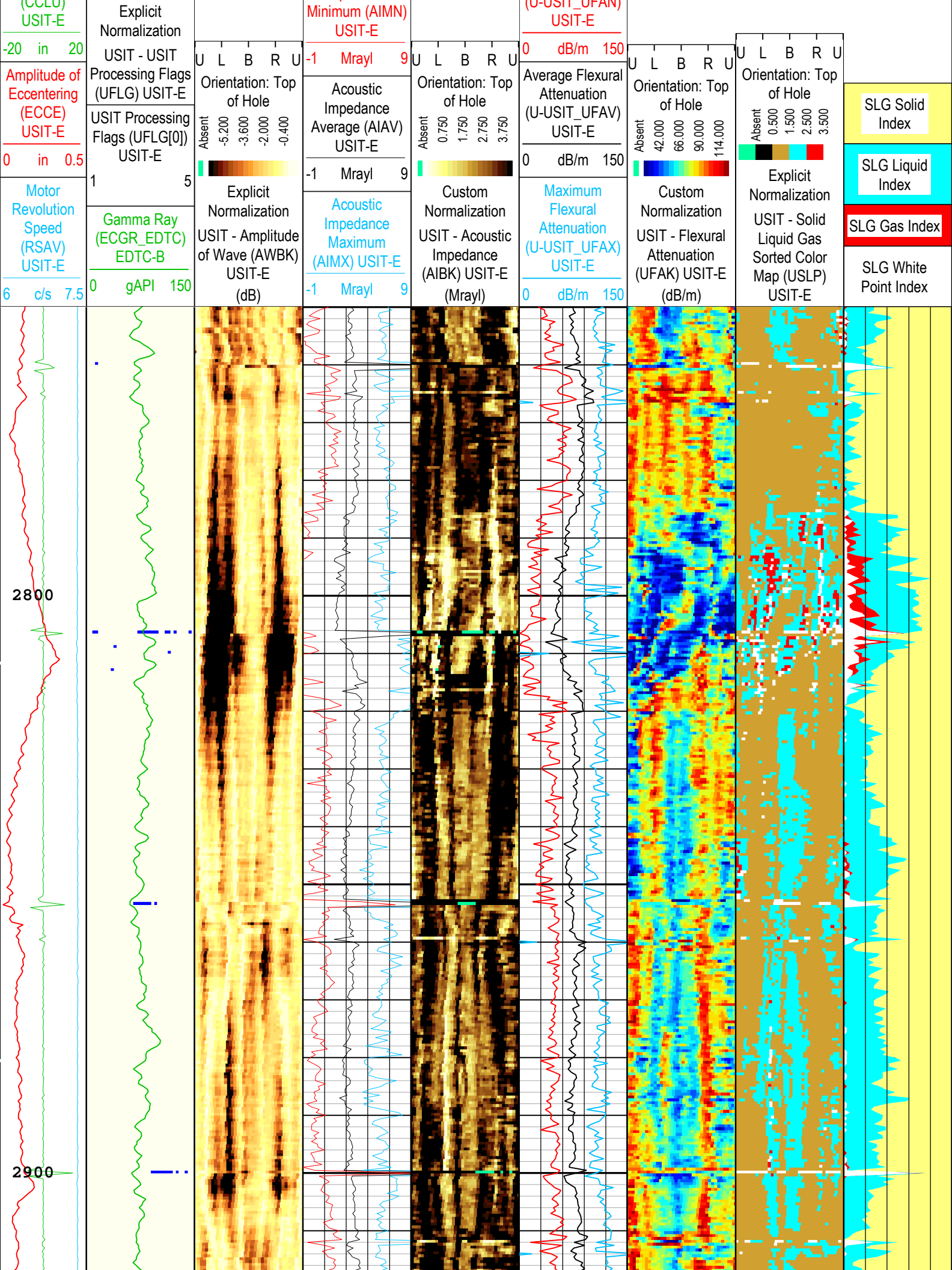
Pulse Origin Not Detected

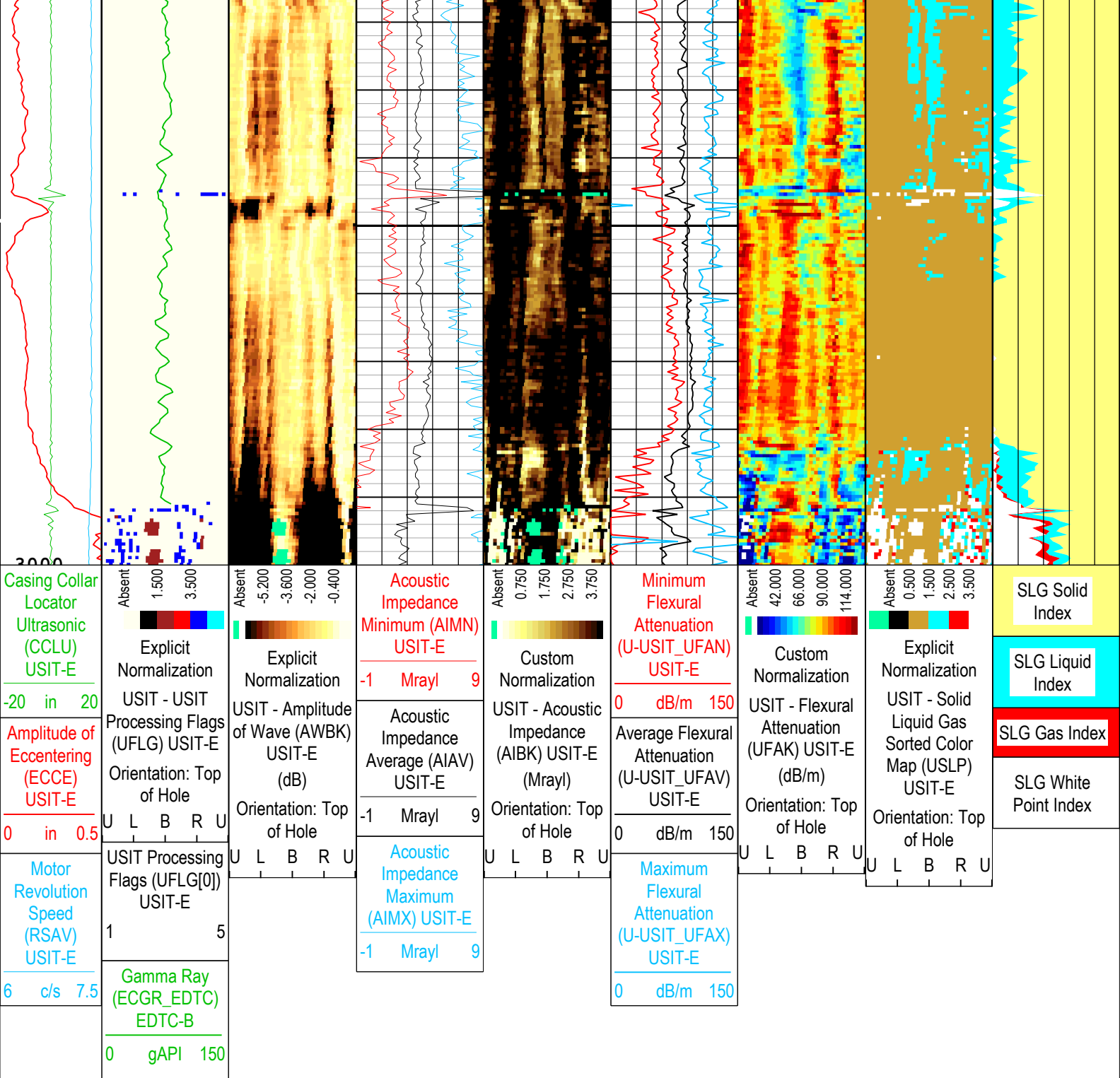
WINLEN Error

Casing Thickness Error

Loop Processing Error

<div>Casing Collar Locator Ultrasonic (CCLU)</div>	<div>U L B R U</div> <div>Orientation: Top of Hole</div> <div>Absent</div> <div>1.5003.500</div> <div></div>	<div>Acoustic Impedance</div>	<div>Minimum Flexural Attenuation (U-USIT_UF AN)</div>





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

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

TIME_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 22-Sep-2018 10:59:02

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	

BERJ	Bad Echo Rejection	USIT-E	On	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	8.5	in
CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson Ratio	
CBLO	Casing Bottom (Logger)	WLSESSION	15734	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.4	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-13.83	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	FreePipe Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.17	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.04	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
RCOD	Reference Calibrator Outer Diameter	USIT-E	4.5	in
RCSO	Reference Calibrator Standoff	USIT-E	0.842	in
RCTH	Reference Calibrator Thickness	USIT-E	0.216	in
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.67	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-10.51	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
USI_RPLUS	Ultrasonic R+ Processing	USIT-E	No	
THDP	Thickness Detection Policy	USIT-E	Fundamental	
VCAS	Ultrasonic Transversal Velocity in Casing	USIT-E	51.4	us/ft
ZCAS	Acoustic Impedance of Casing	USIT-E	46.25	Mrayl
ZINI	Initial Estimate of Cement Impedance	USIT-E	-1	Mrayl
ZMUD	Acoustic Impedance of Mud	Borehole	1.75	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Tool Control Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit

AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOT(DOS)	Distance between Opposite Transducer Faces	USIT-E	1.756	in
EMXV	EMEX Voltage	USIT-E	70	V
HRES	Horizontal Resolution	USIT-E	10 deg	
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
MOTOR_PROTECT	Motor Protection	USIT-E	On	
UACLV_PERM	Ultrasonic ACLV Permanent	USIT-E	Yes	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	137	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	177	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	146	us
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
USSP	Ultrasonic Service	USIT-E	IBC	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	31.88	us
WINE	Window End Time	USIT-E	71.88	us

ONE

IBC SLG Composite

Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	2749.16 ft	3013.00 ft	22-Sep-2018 7:51:42 AM	22-Sep-2018 7:55:56 AM	ON	2.49 ft	Yes
All depths are referenced to toolstring zero									
Log	Company:Crestone Peak Resources Operating LLC						Well:Davis 1M-9H-G266		
	ONE: Log[4]:Up:S006								

Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth

Creation Date: 22-Sep-2018 10:59:07

TIME_1900 - Time Marked every 60.00 (s)

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

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

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

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

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

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

UTIM Error

Pulse Origin Not Detected

WINLEN Error

Casing Thickness Error

Loop Processing Error

U L B R U

Orientation:
Top of Hole

Absent 1.500 3.500

Explicit Normalizatio

Casing Collar Locator

External Radii
Average (ERAV)
USIT-E

3 in 2

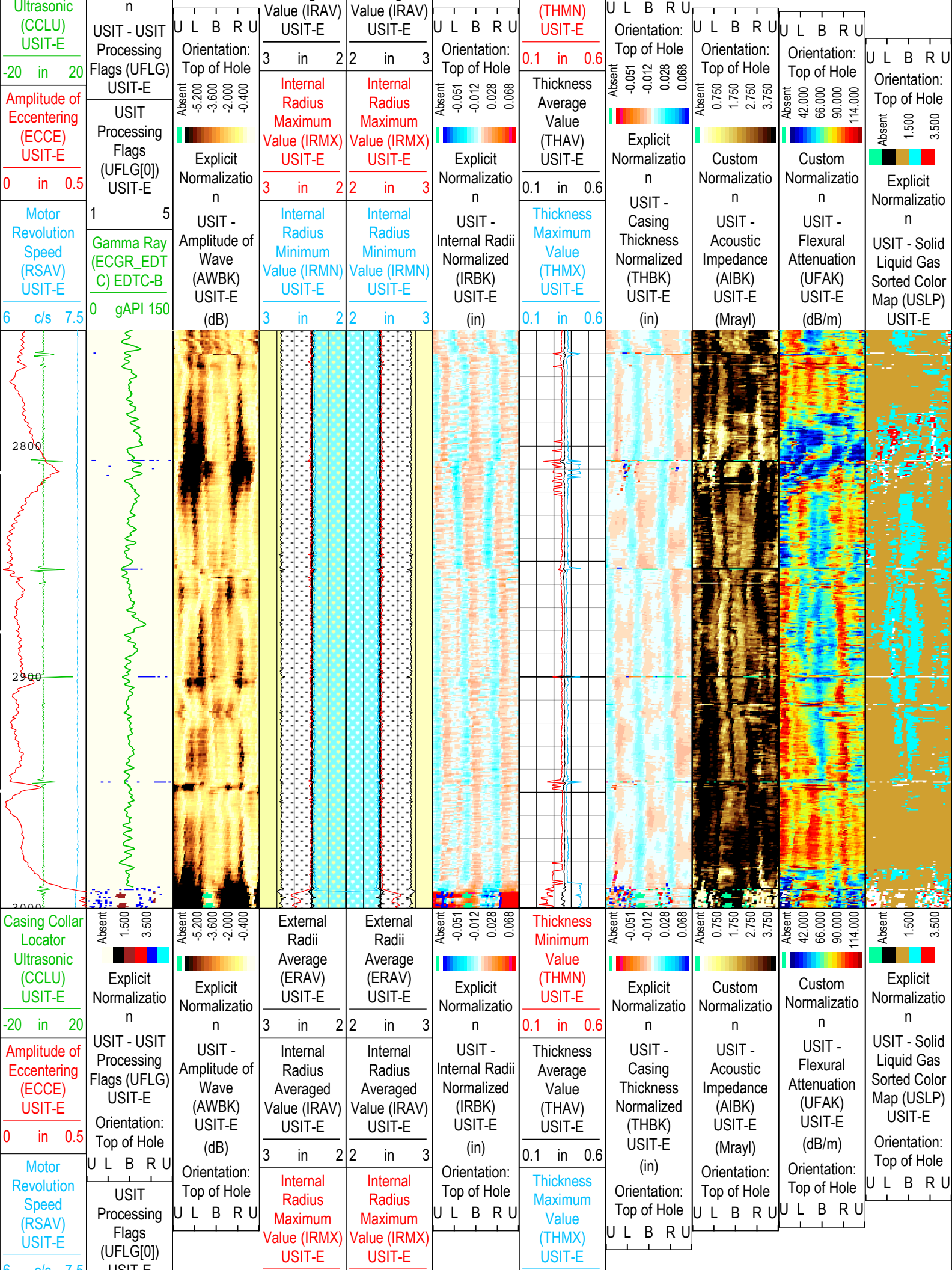
External Radii
Average (ERAV)
USIT-E

2 in 3

Internal Radius
Averaged

Thickness Minimum Value

Internal Radius
Averaged



USIT-E	1	5	3	in	2	2	in	3	0.1	in	0.6
Gamma Ray (ECGR_EDT C) EDTC-B			Internal Radius Minimum Value (IRMN) USIT-E			Internal Radius Minimum Value (IRMN) USIT-E					
0	gAPI 150				3	in	2	2	in	3	

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

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

TIME_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 22-Sep-2018 10:59:07

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	8.5	in
CBLO	Casing Bottom (Logger)	WLSESSION	15734	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.4	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-13.83	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	FreePipe Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.17	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.04	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.67	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-10.51	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.75	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Tool Control Parameters				
ONE: Parameters				

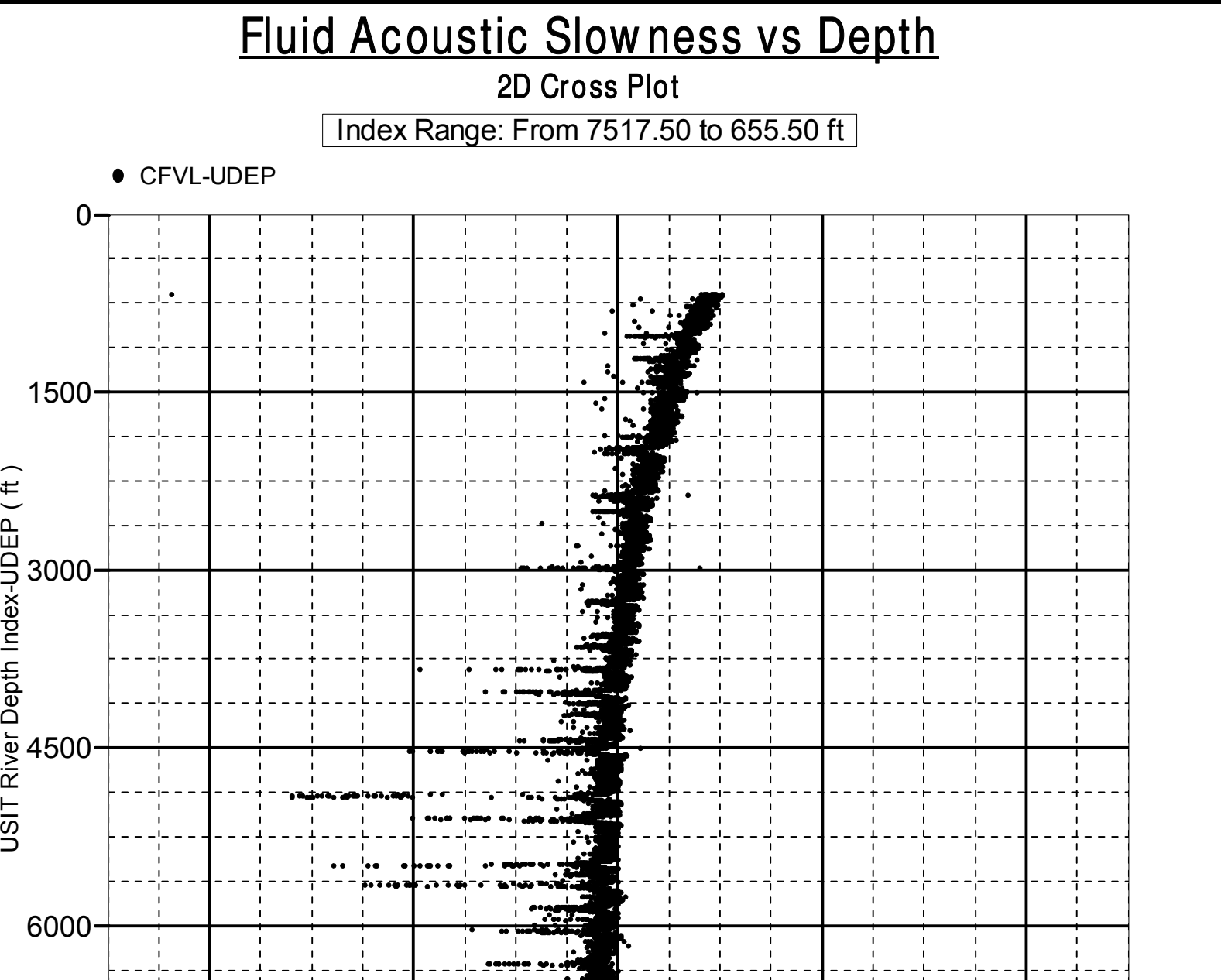
ONE: Parameters

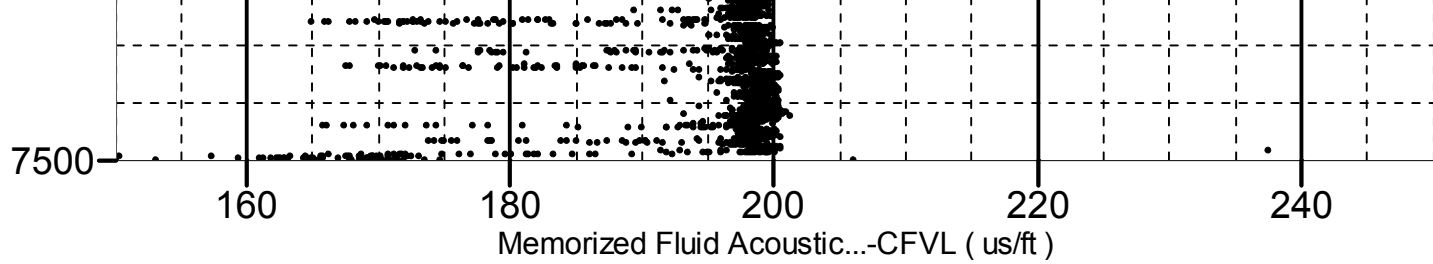
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	70	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	137	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	177	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	146	us
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	31.88	us
WINE	Window End Time	USIT-E	71.88	us

XYZ

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

ONE: Log[6]:Up:S006





XYZ

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

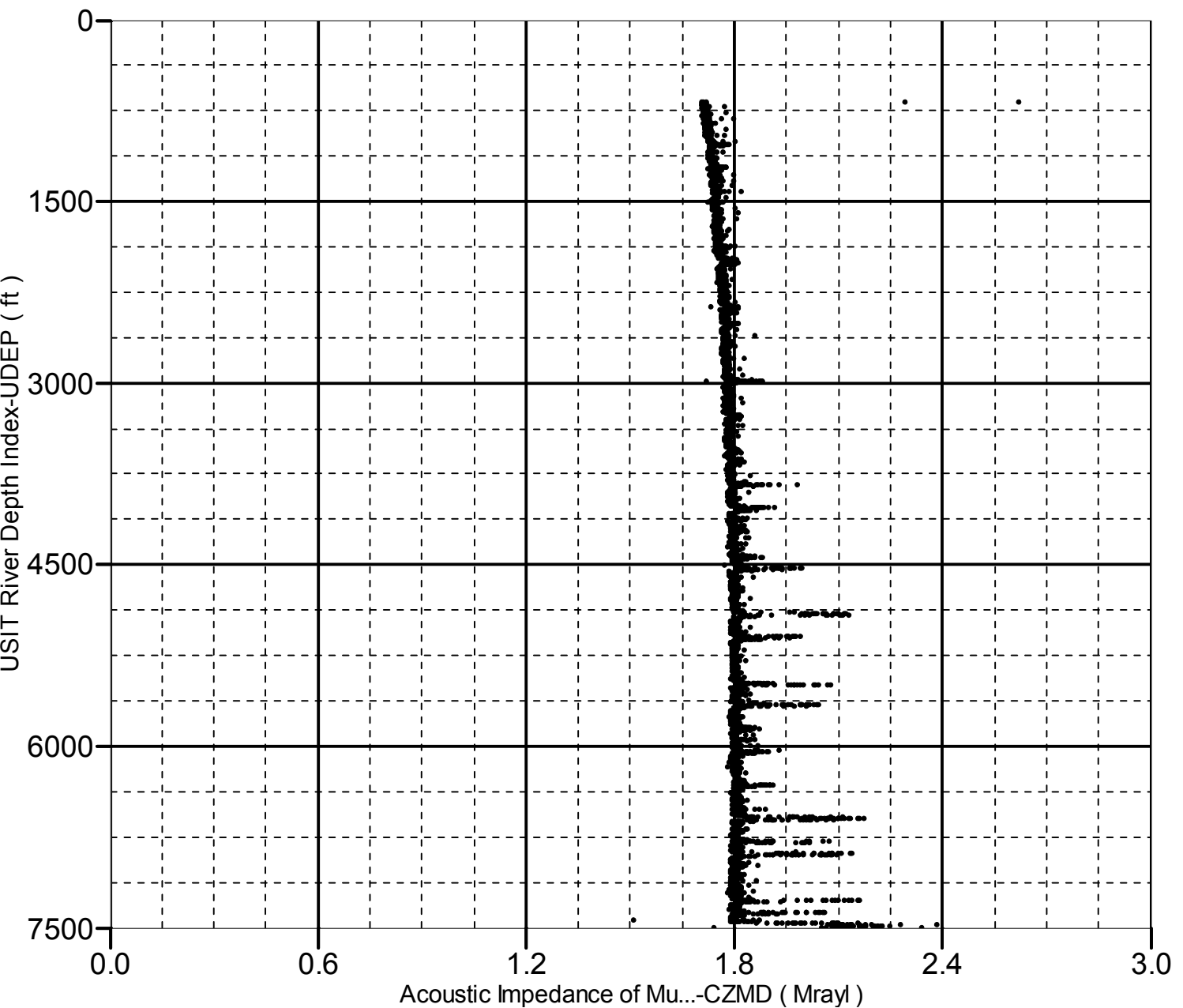
ONE: Log[6]:Up:S006

Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 7517.50 to 655.50 ft

● CZMD-UDEP



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