

Company: Crestone Peak Resources Operating LLC

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

Location:		SWSE Sec. 9, T2N, R66W SHL: 1908' FSL & 1392' FEL Lat/Long: 40.154583, -104.777786	Elev.: K.B. 4940.00 ft G.L. 4917.00 ft D.F. 4940.00 ft
Permanent Datum:	Ground Level	Kelly Bushing	Elev.: 23.00 ft above Perm.Datum
Log Measured From:	Kelly Bushing		
Drilling Measured From:	Kelly Bushing		
API Serial No. 05-123-46587	Section: 9	Township: 2N	Range: 66W

Logging Date 19-Sep-2018

Run Number ONE

Depth Driller 14840.00 ft

Schlumberger Depth 14840.00 ft

Bottom Log Interval 7012.00 ft

Top Log Interval 66.00 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 2186.00 ft

To 14840.00 ft

Casing/Tubing Size 5.5 in

Weight 20 lbm/ft

Grade P110

From 0.00 ft

To 14840.00 ft

Max Recorded Temperatures 222.5 degF

Logger on Bottom 19-Sep-2018 12:30:00

Unit Number 9108

Recorded By A.BLOCHOWICZ

Fort Morgan, CO

TRACY KERN

Disclaimer

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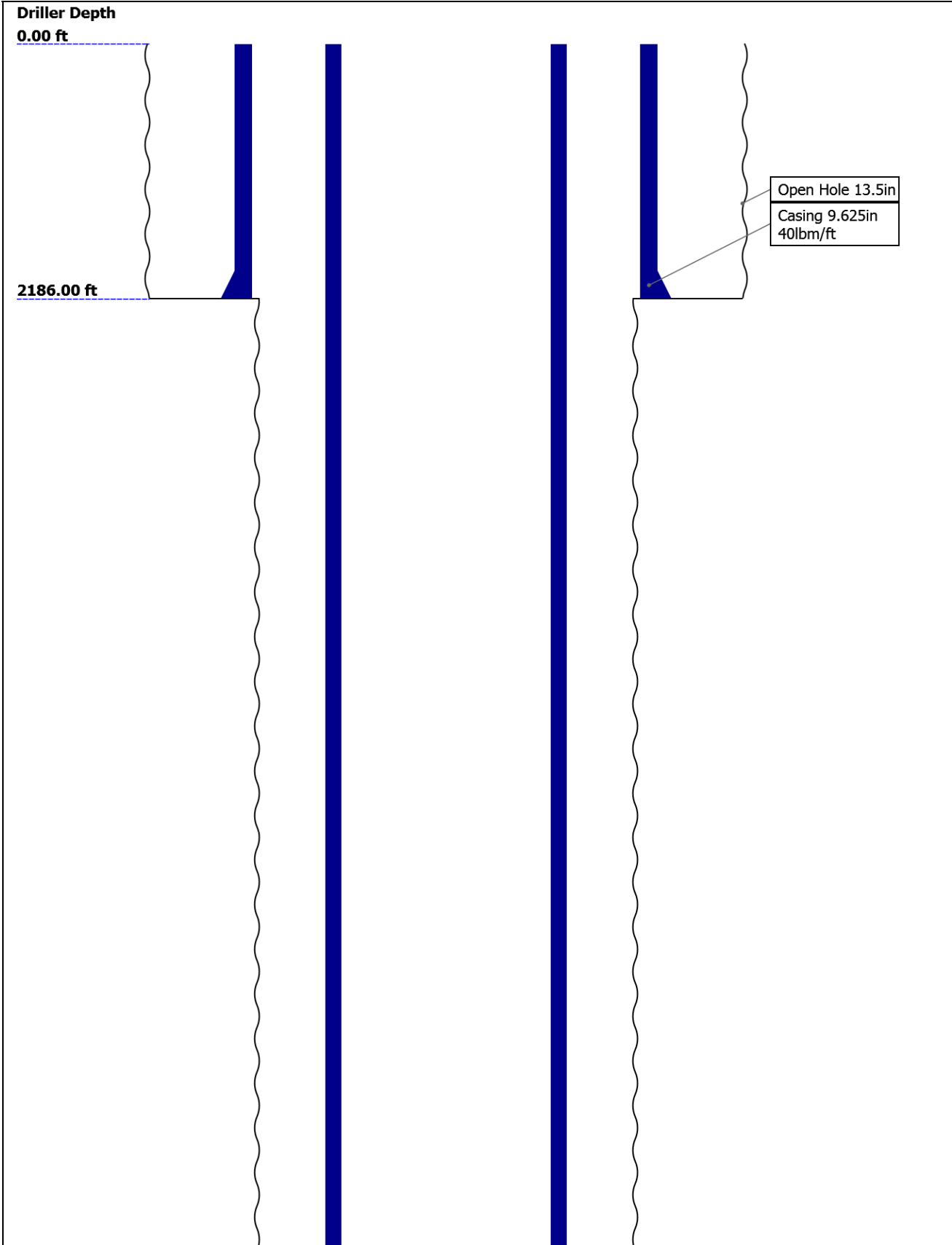
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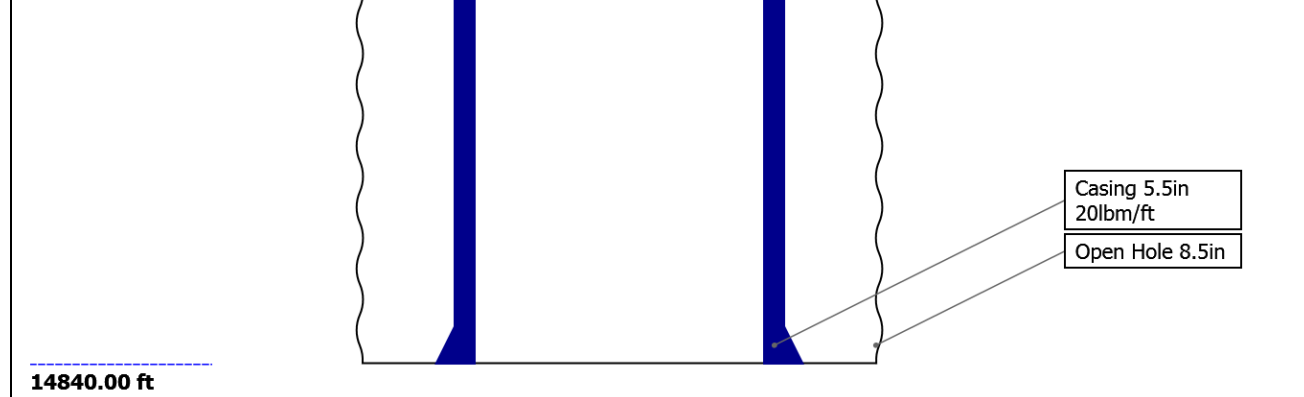
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Well Sketch

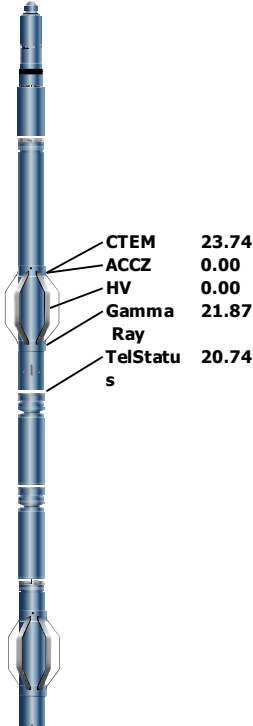


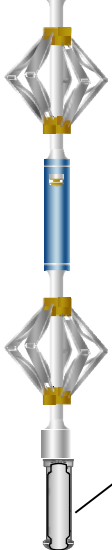


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	13.5	8.5				
Top Driller (ft)	0	2186				
Top Logger (ft)	0	2186				
Bottom Driller (ft)	2186	14840				
Bottom Logger (ft)	2186	14840				
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)	2186	14840				
Bottom Logger (ft)	2186	14840				

Remarks and Equipment Summary

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

USSS-A:18 32 USSC-B:17 78 IBCS-A:76 3 FAR-SENS OR:4690 IBC-TX NEAR-SEN SOR:4722 IBC-TX USI-SENS OR:4687 IBC-TX EMITTER- SENSOR:4 684 IBC-TX	 <p>USI Sensor Head Tension TOOL_ZERO</p> <p>Lengths are in ft Maximum Outer Diameter = 5.000 in Line: Sensor Location, Value: Gating Offset All measurements are relative to TOOL_ZERO</p>	
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Depth Summary			
ONE			
Depth Measuring Device			
Type	IDW-JA		
Serial Number	6455		
Calibration Date	26-JUL-2018		
Calibrator Serial Number	IDWC-C-57		
Calibration Cable Type	7-32 ASXS		
Wheel Correction 1	-1		
Wheel Correction 2	1		
Tension Device			
Type	CMTD-B/A		
Serial Number	1703		
Calibration Date	29-Jul-2018		
Calibrator Serial Number	88310A		
Number of Calibration Points	10		
Calibration Root Mean Square Error	6		
Calibration Peak Error	9		
Logging Cable			
Type	7-32AS-XS		
Serial Number	U718001		
Length	20000.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane USA		
ONE:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well	All Schlumberger depth control policies followed.	
Rig Up Length At Surface		IDW used as primary depth reference.	
Rig Up Length At Bottom		Z-Chart used as secondary depth reference.	
Rig Up Length Correction			

Stretch Correction
Tool Zero Check At Surface

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Log[13]:Up	7018.14	57.25

Fluid Velocity = "Automatic".
CFVL equals DFSL channel

Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)
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Mud Impedance = "Inversion Norm."
IBC Inversion normalization zone is : 385.50m(1264.77ft) to 387.66m(1271.85ft)
MUD_N_INV = 1.18
DFD = 1.01g/cm3(8.40lbm/gal)
CZMD median computed in inversion normalization interval = 1.69 MRayl

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

IBC SLG

Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[13]:Up	Up	57.25 ft	7018.14 ft	19-Sep-2018 12:30:39 PM	19-Sep-2018 2:13:56 PM	ON	7.39 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources Operating LLC	Well:Davis 1D-9H-G266
		ONE: Log[13]:Up:S013

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Sep-2018 22:56:07

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

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

■

 Pulse Origin Not Detected

■

 WINLEN Error

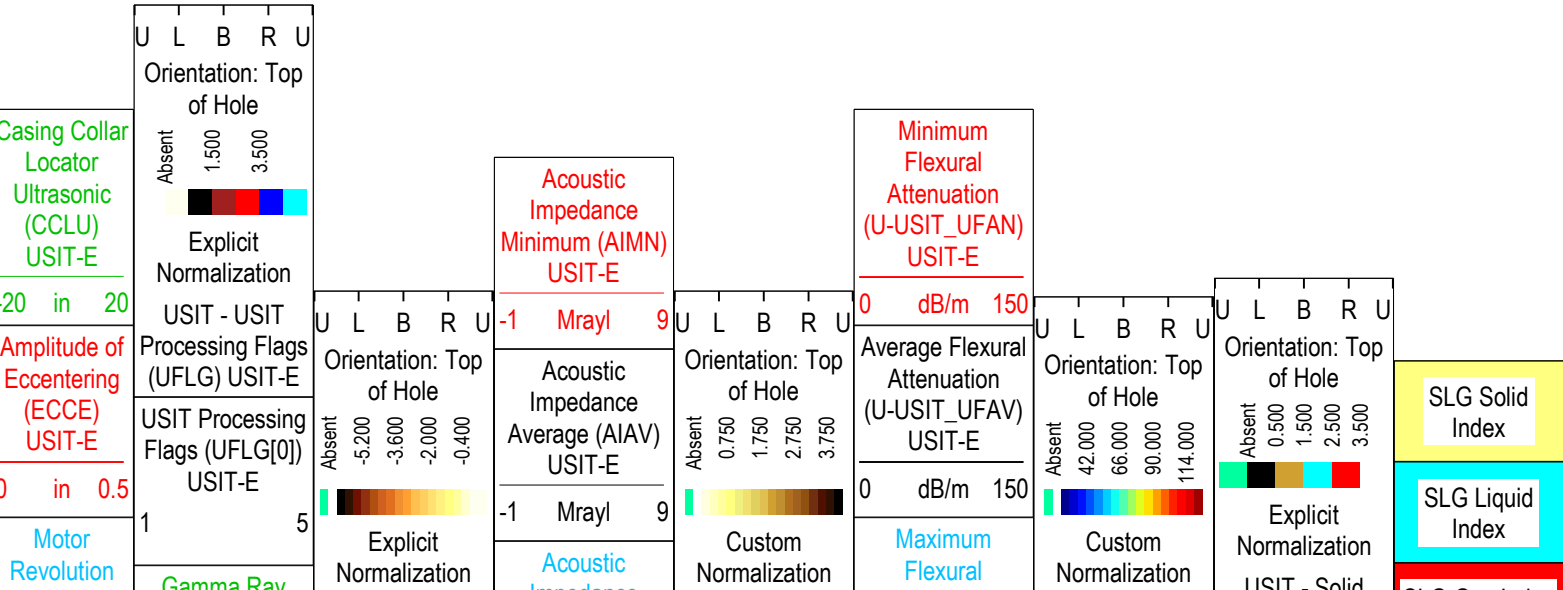
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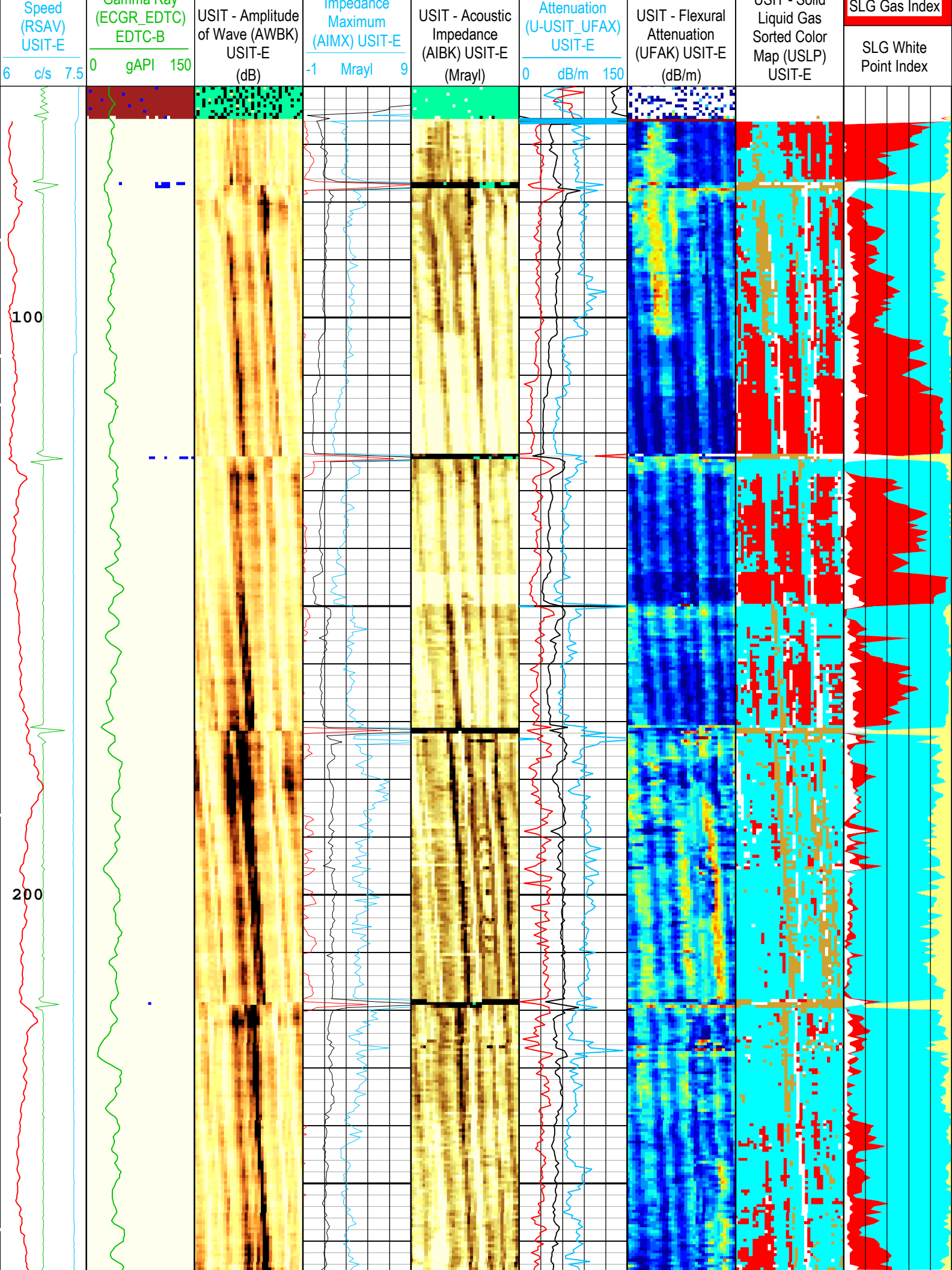
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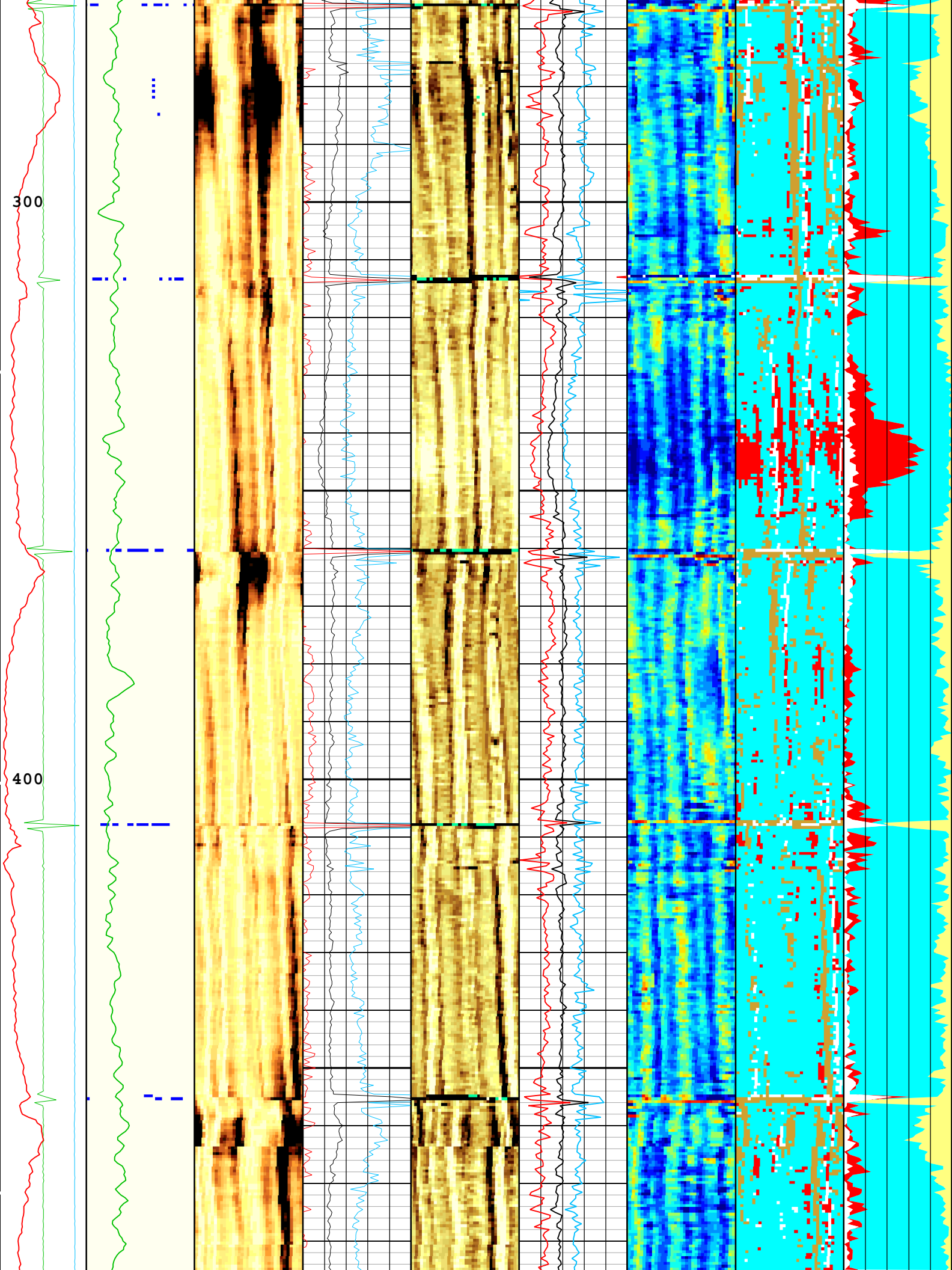
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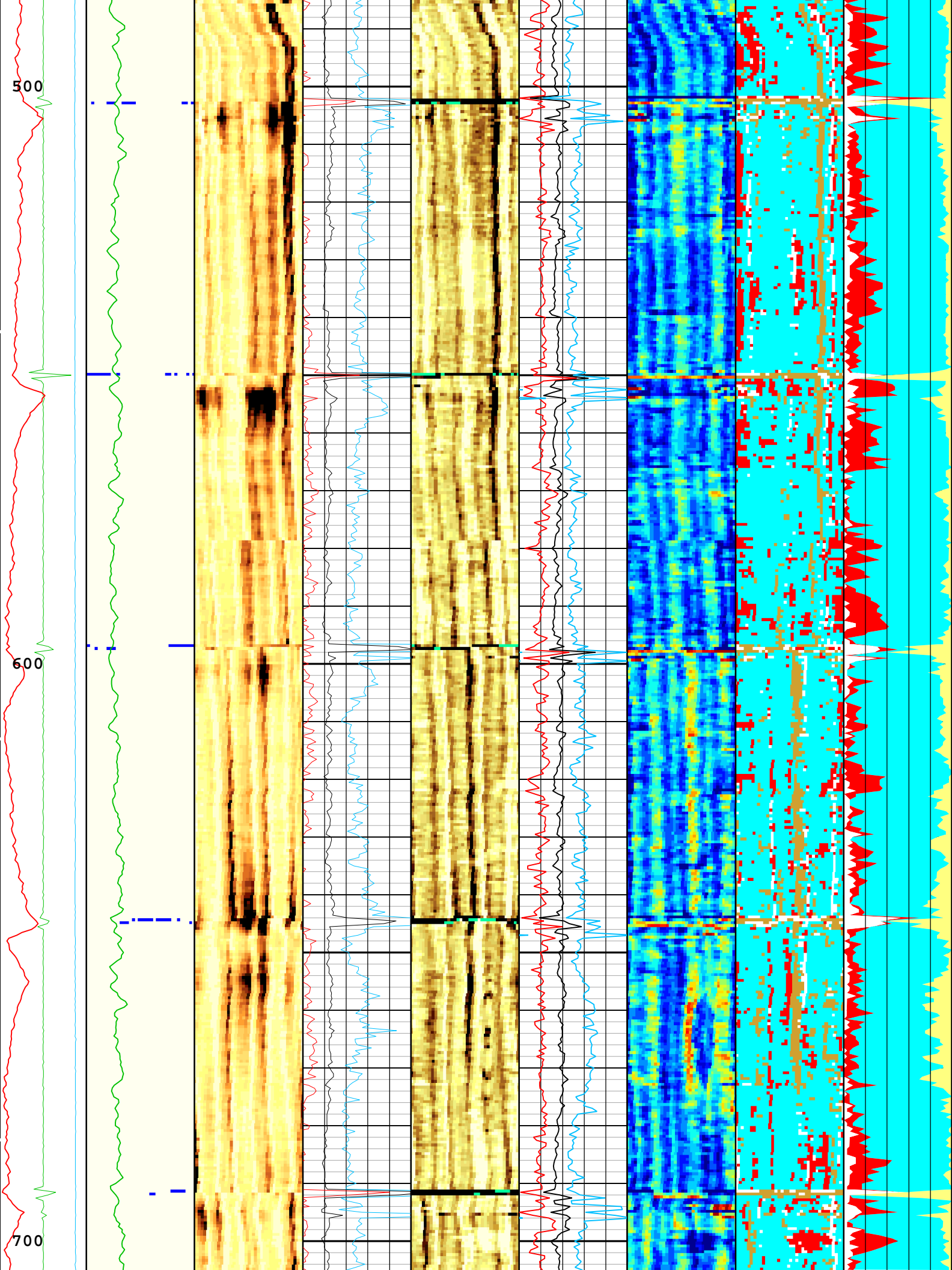
 Loop Processing Error

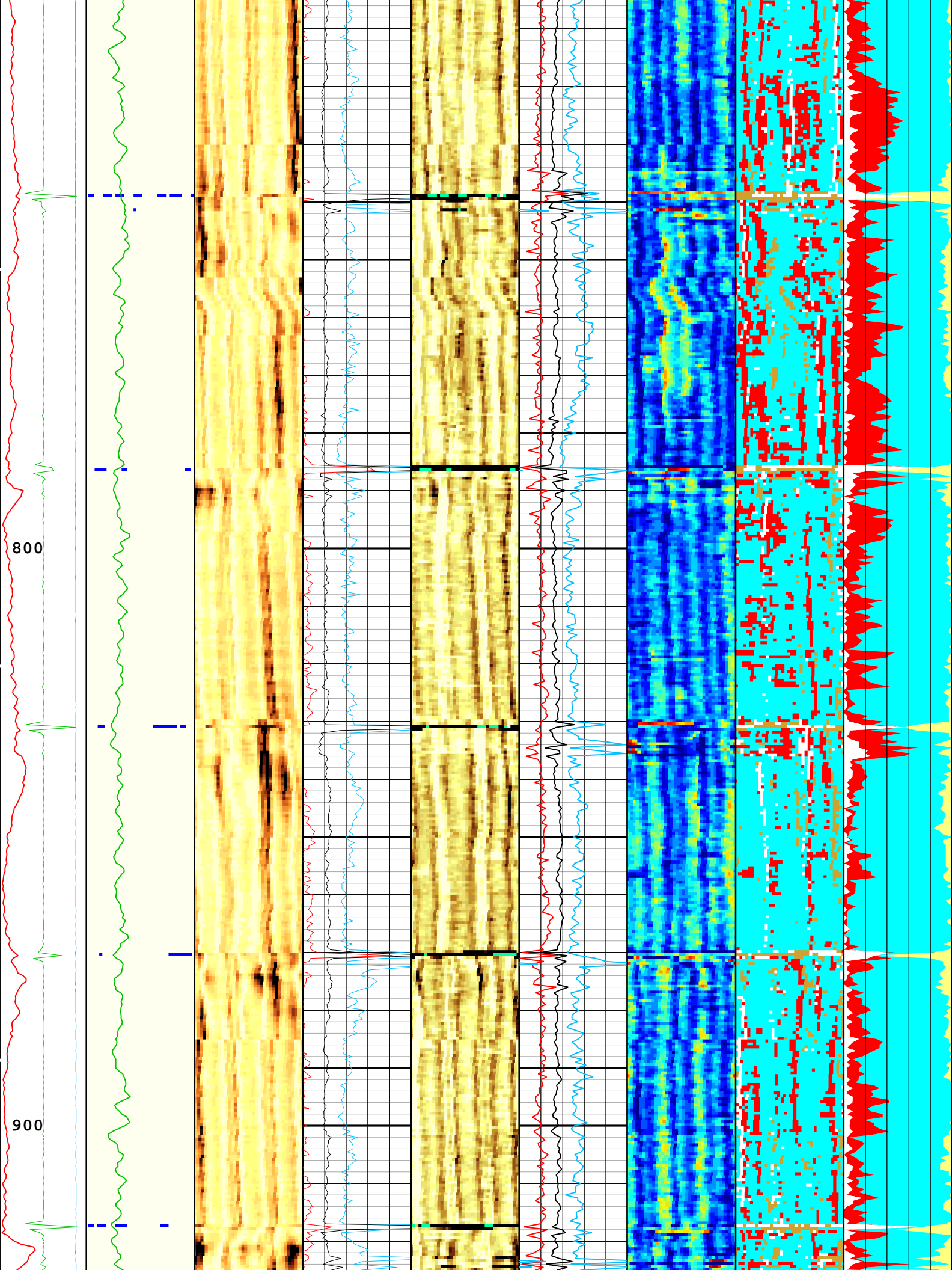
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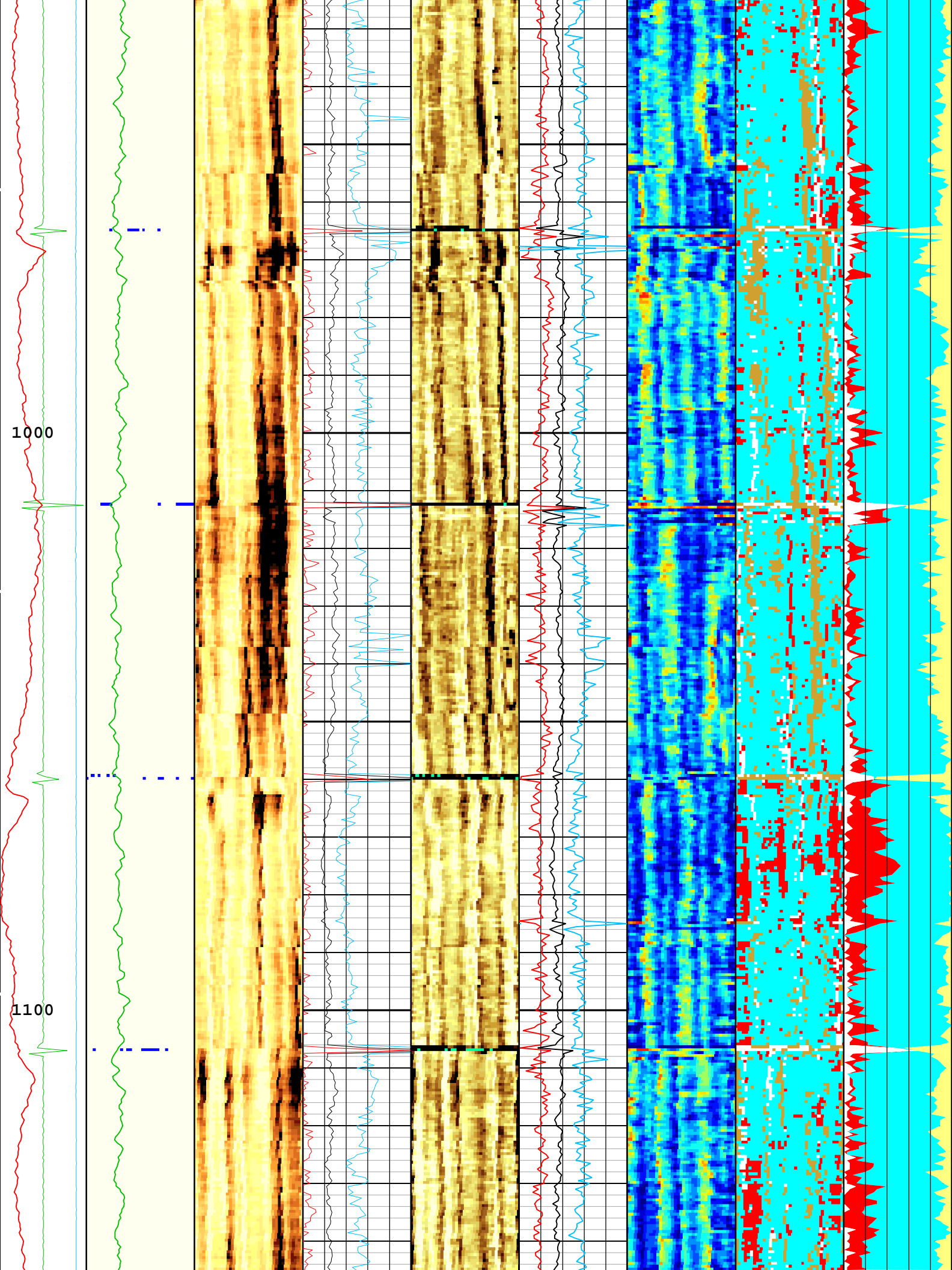


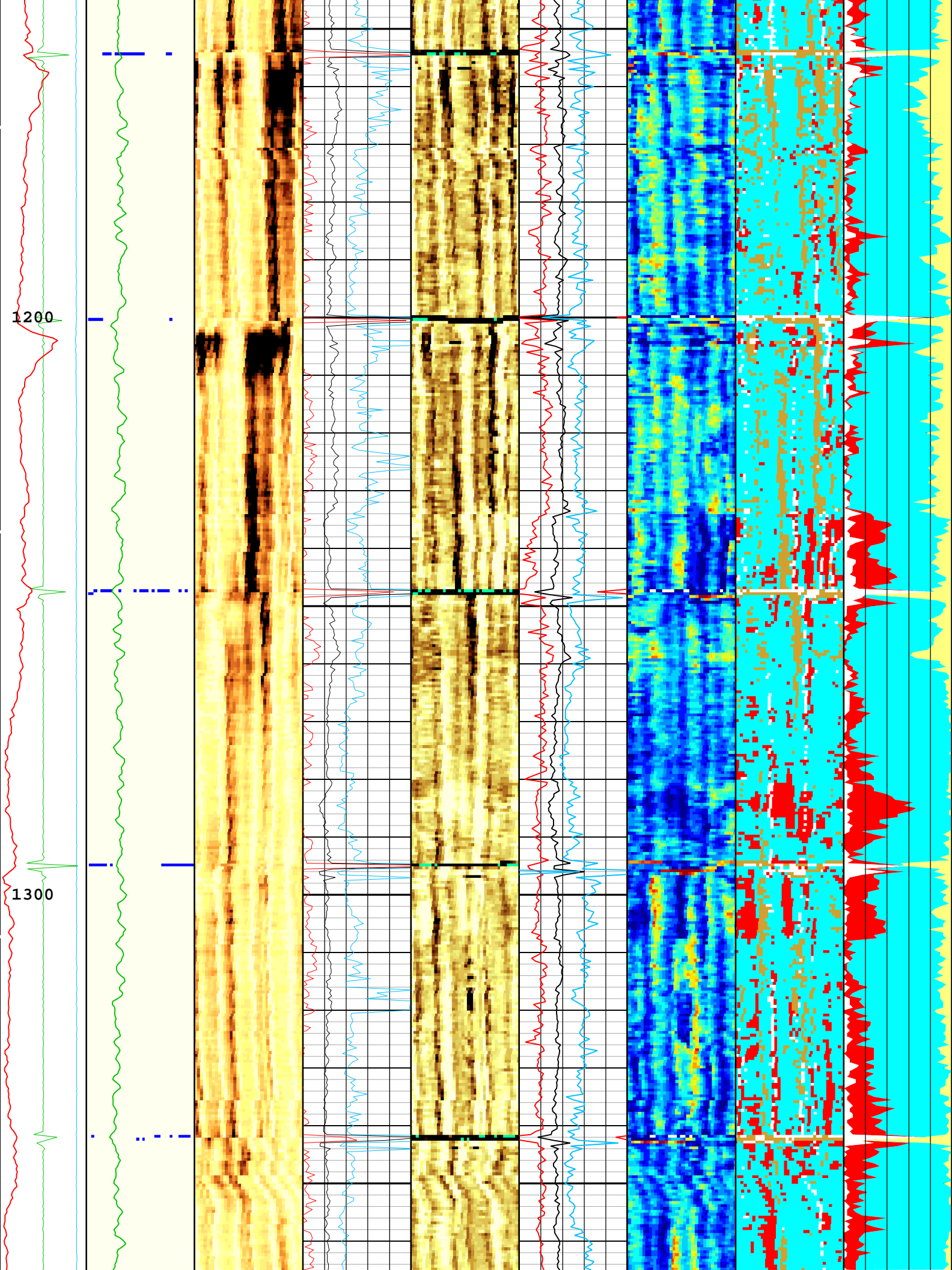


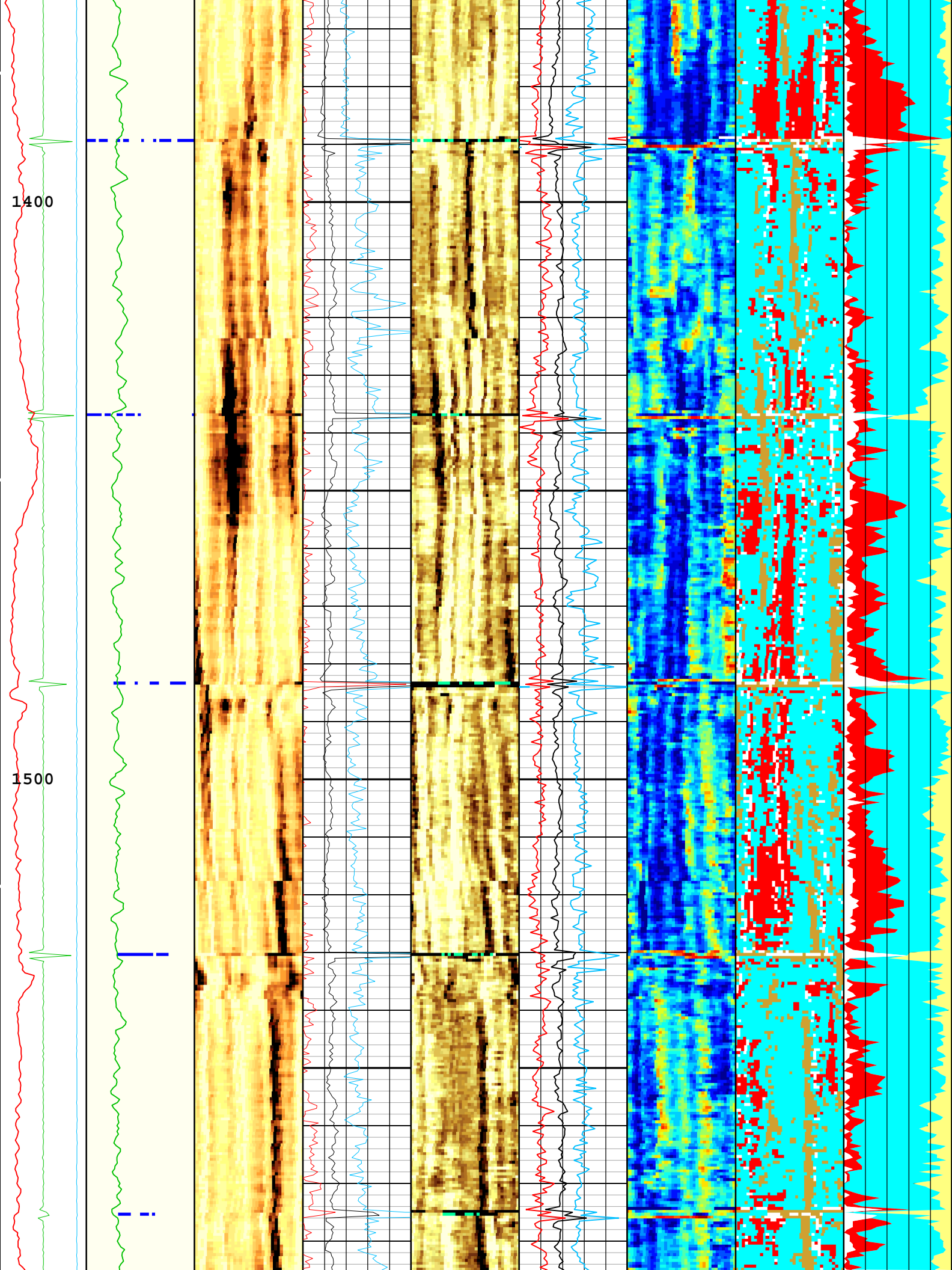


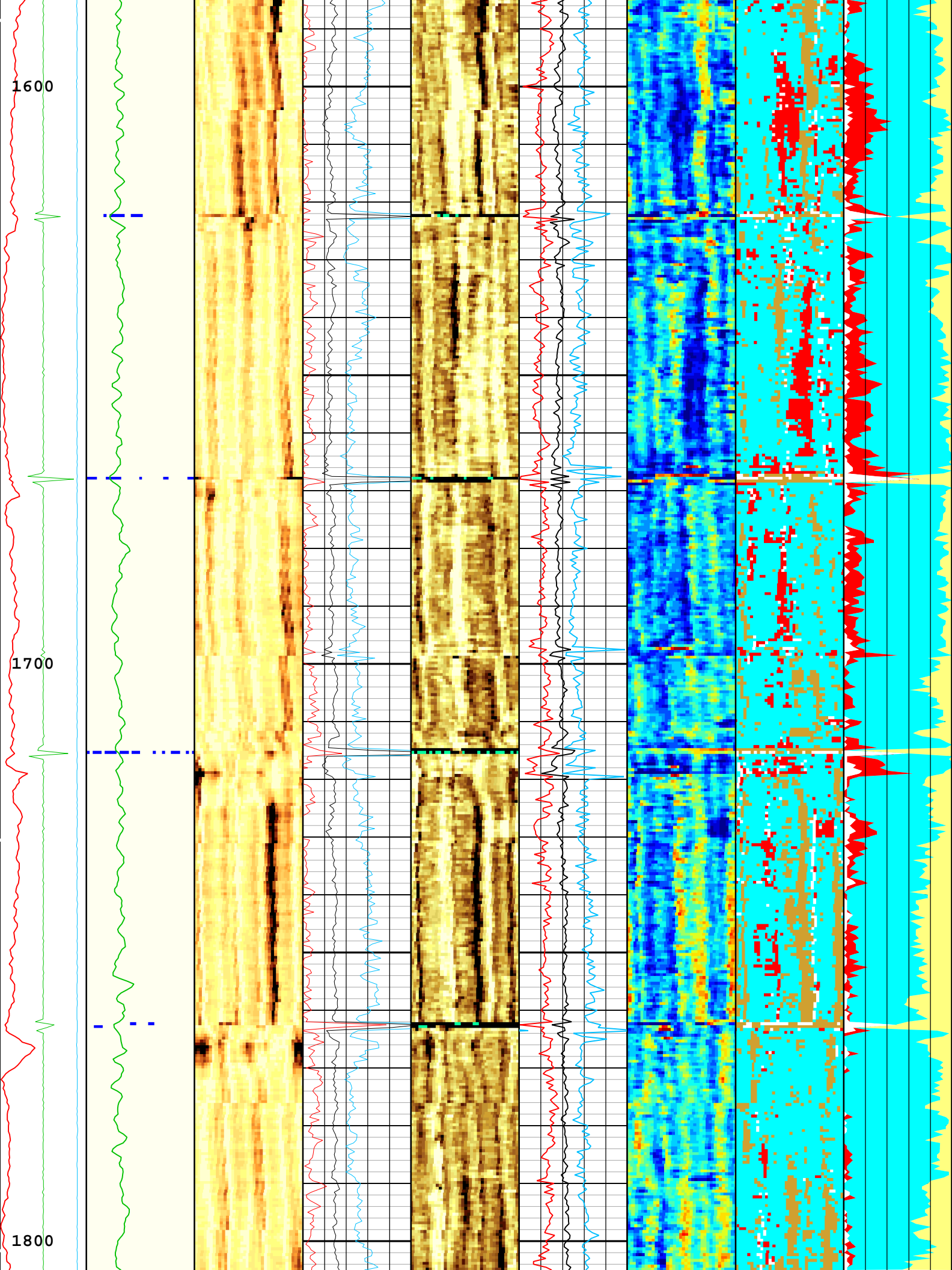


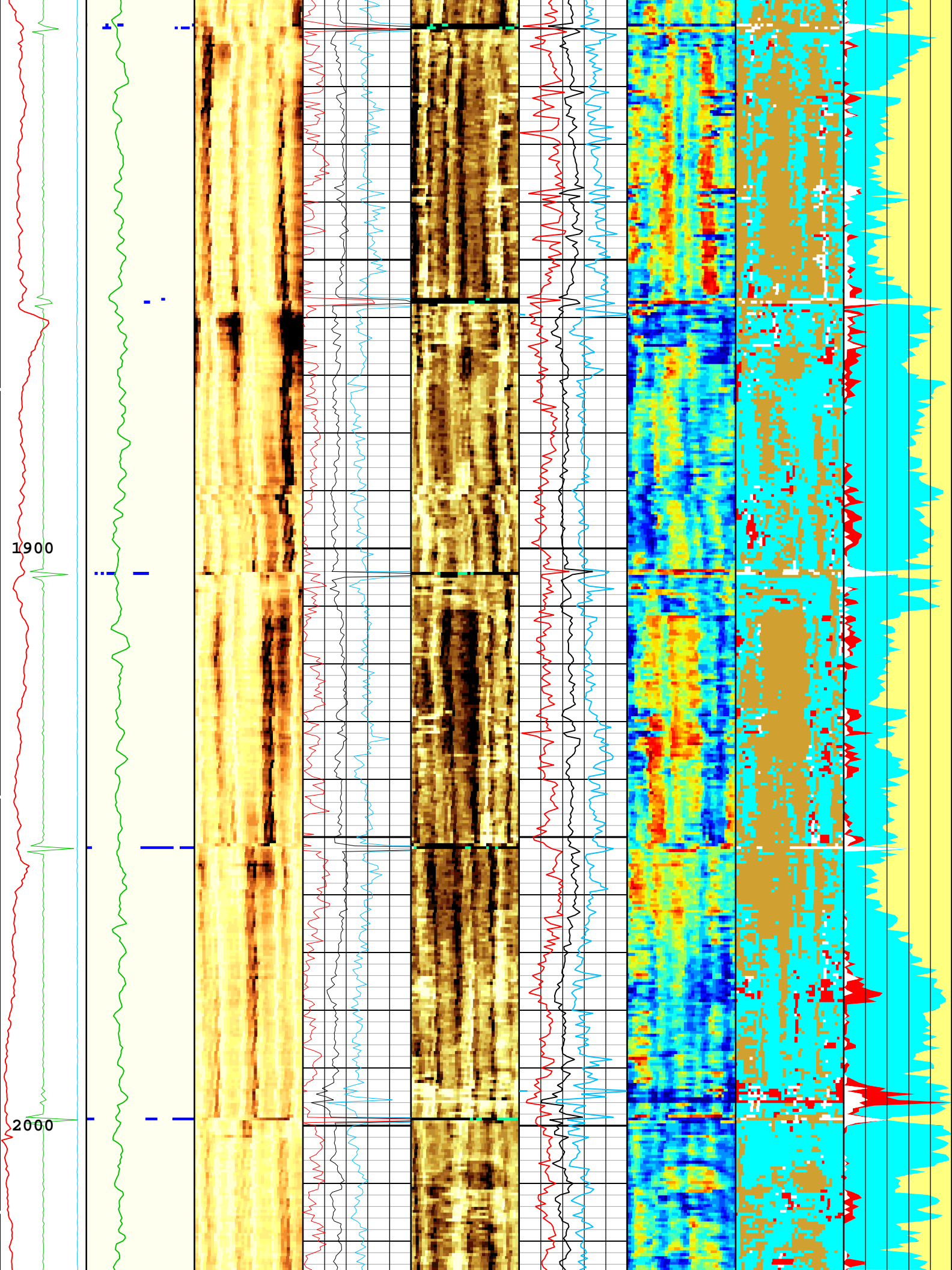


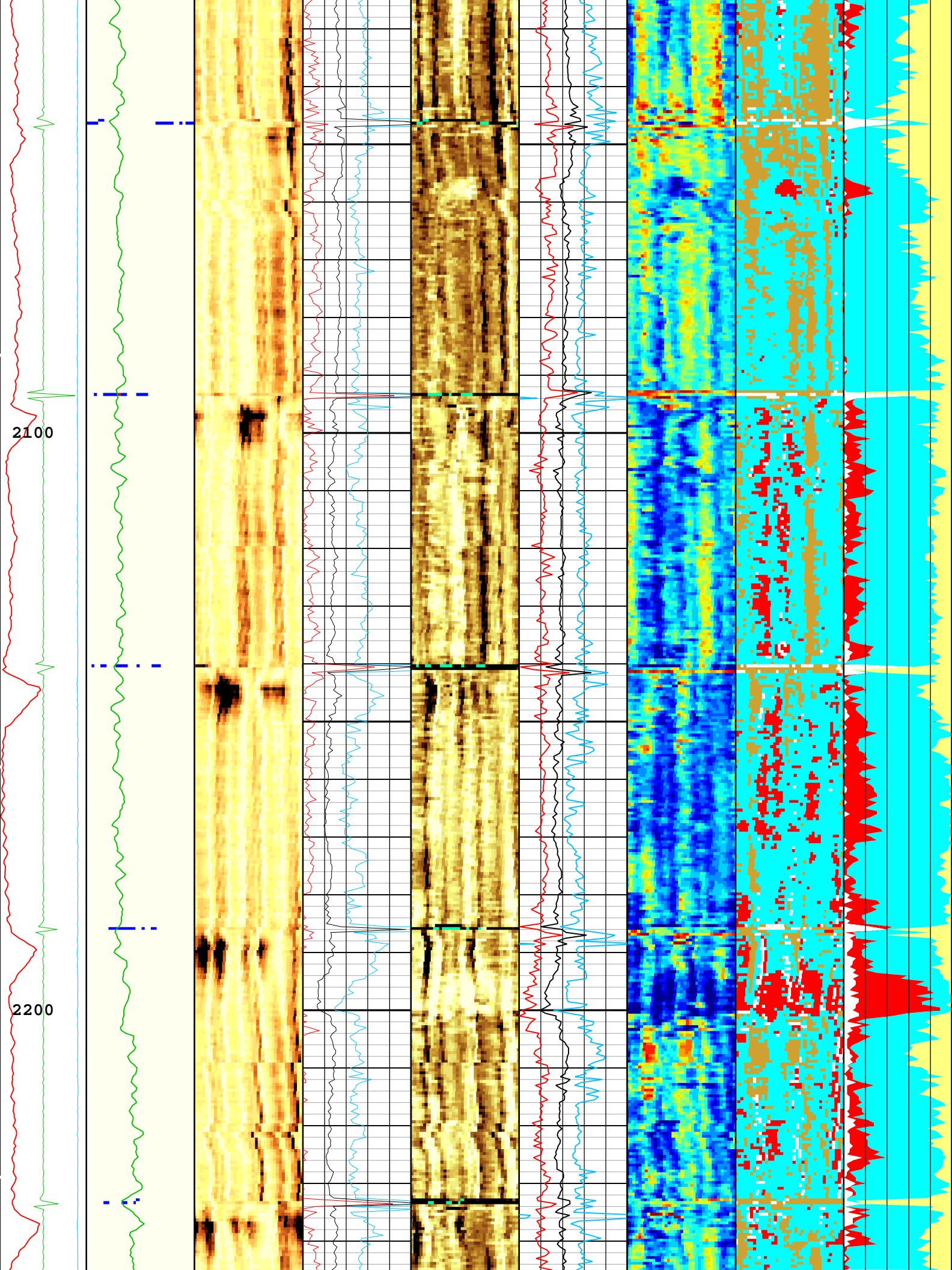


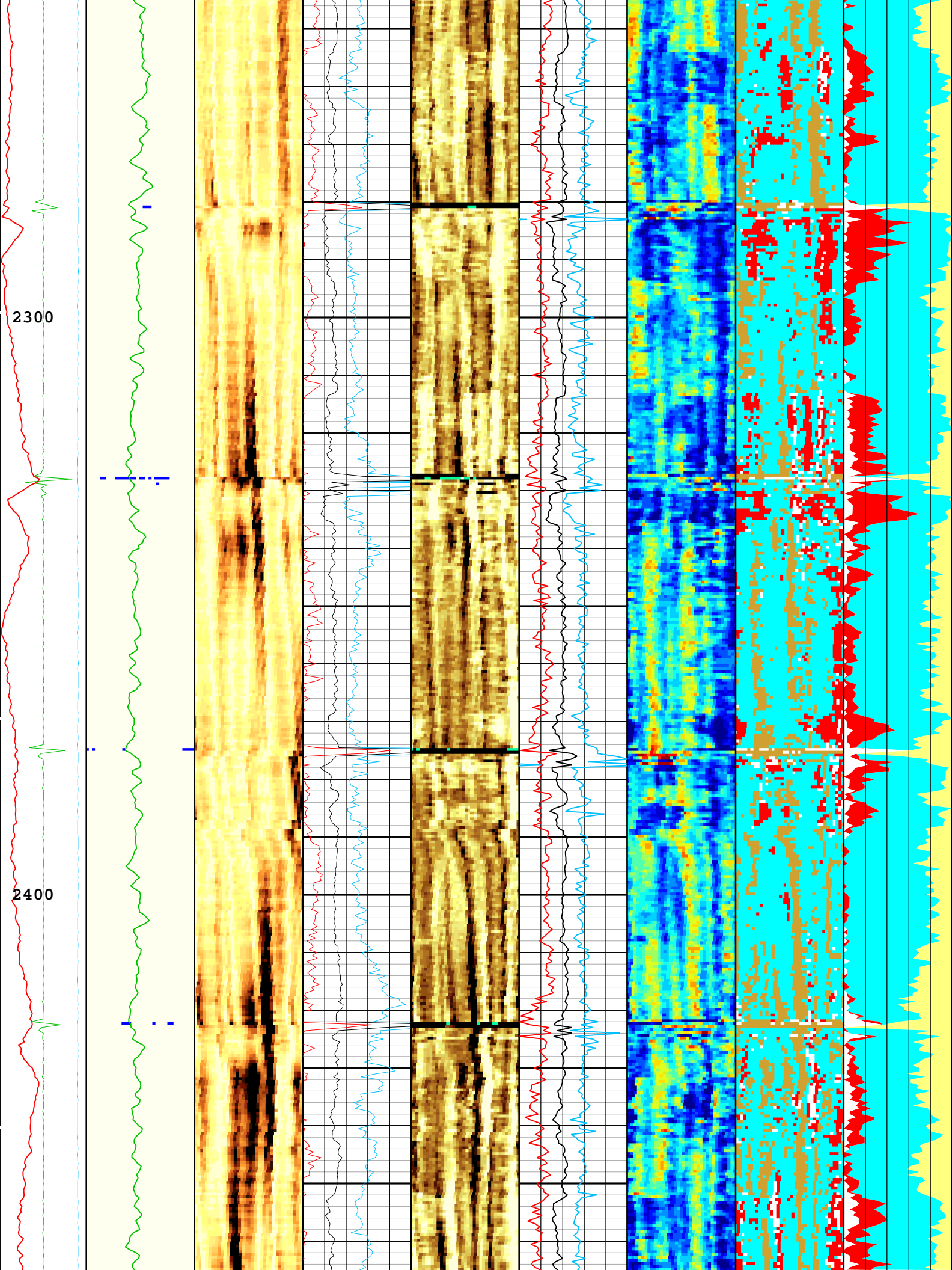


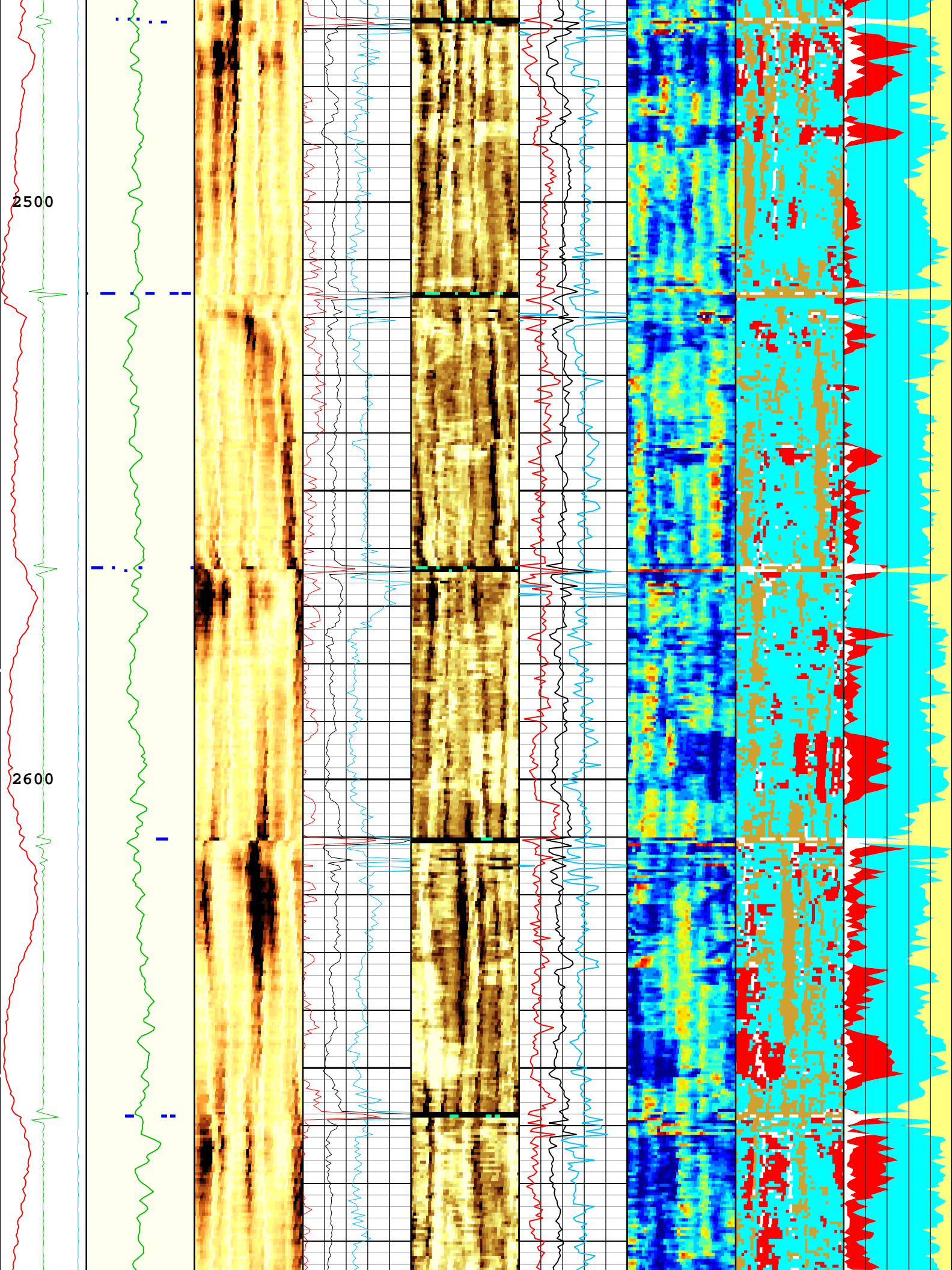


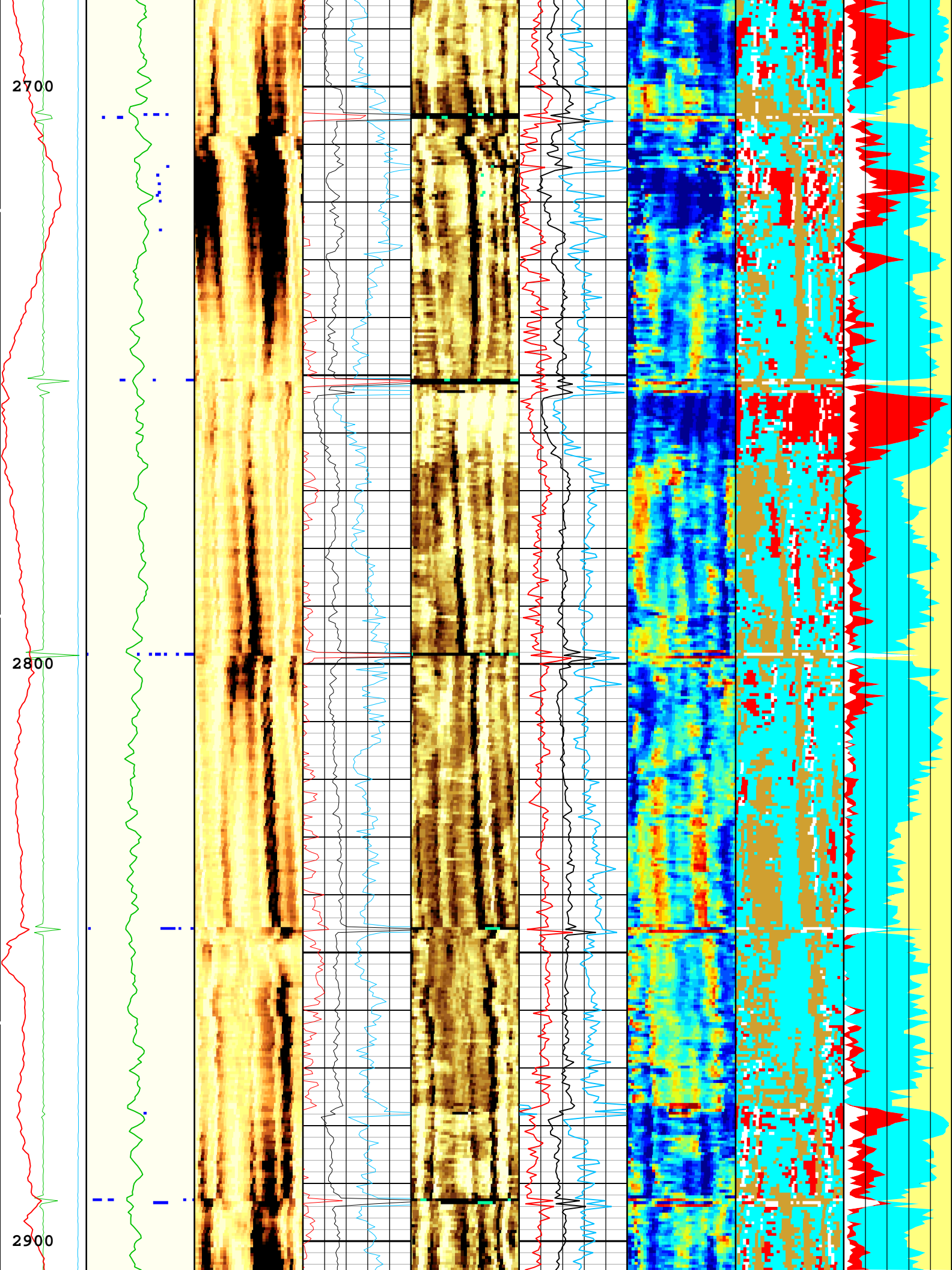


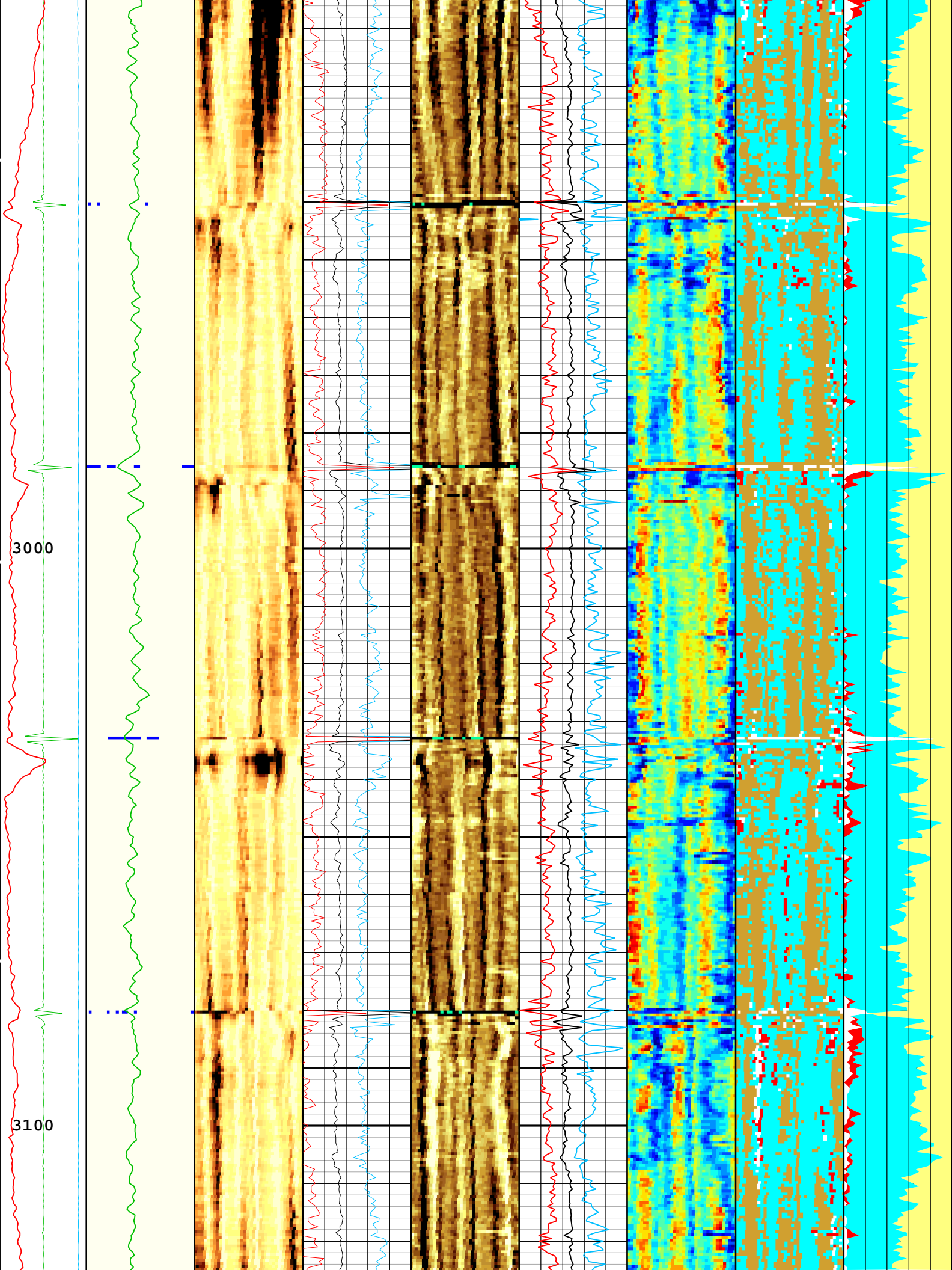


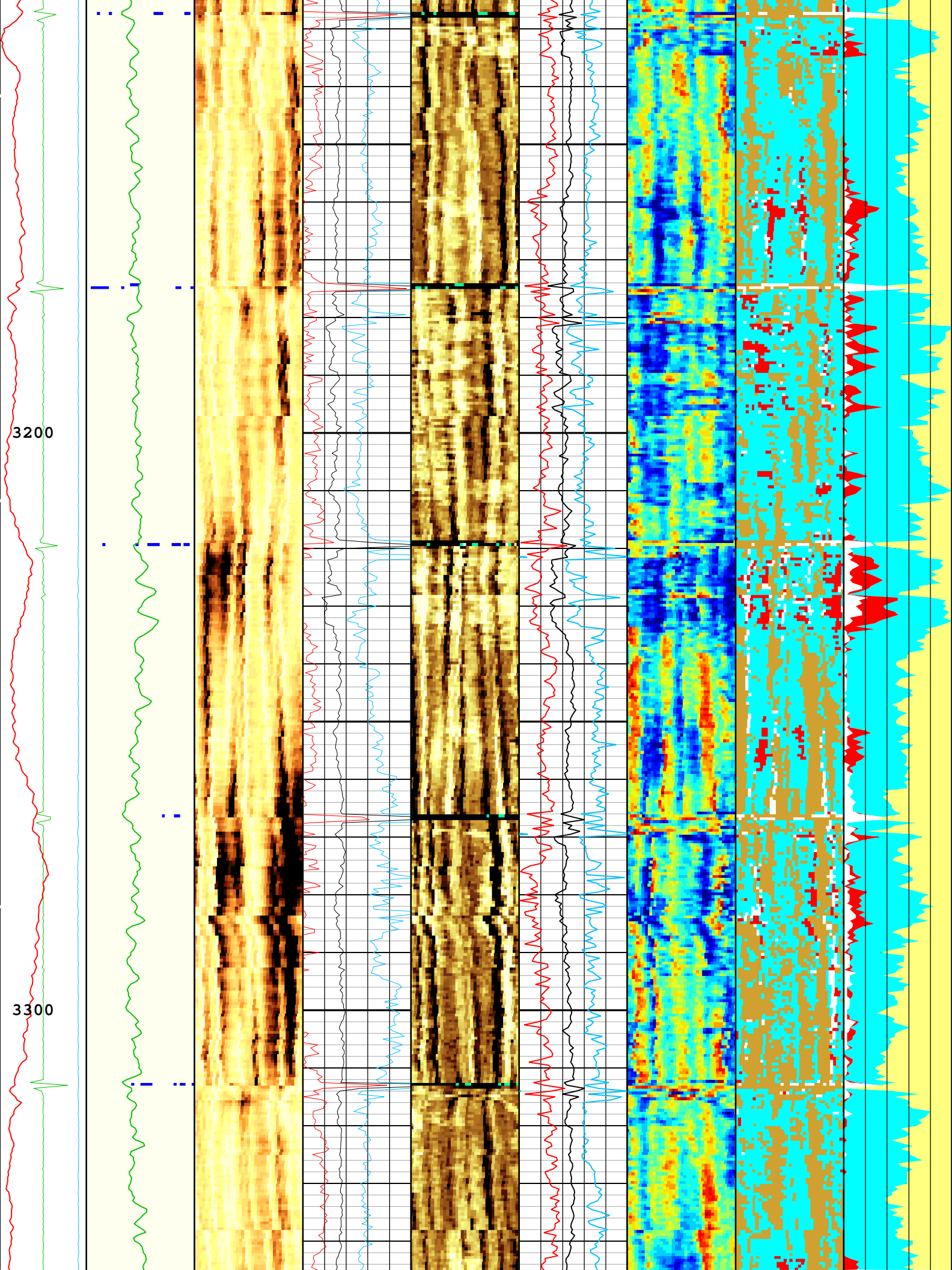


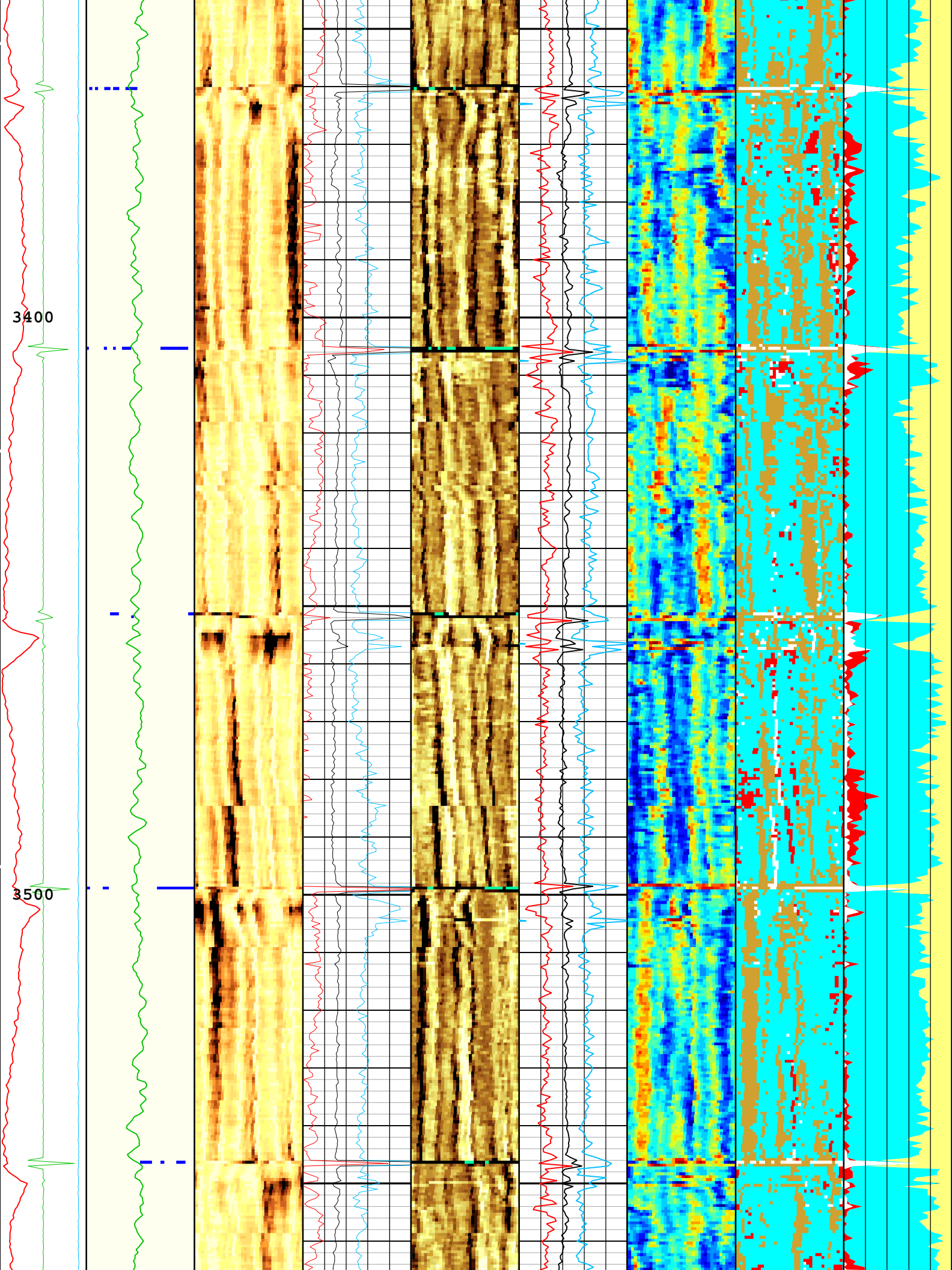


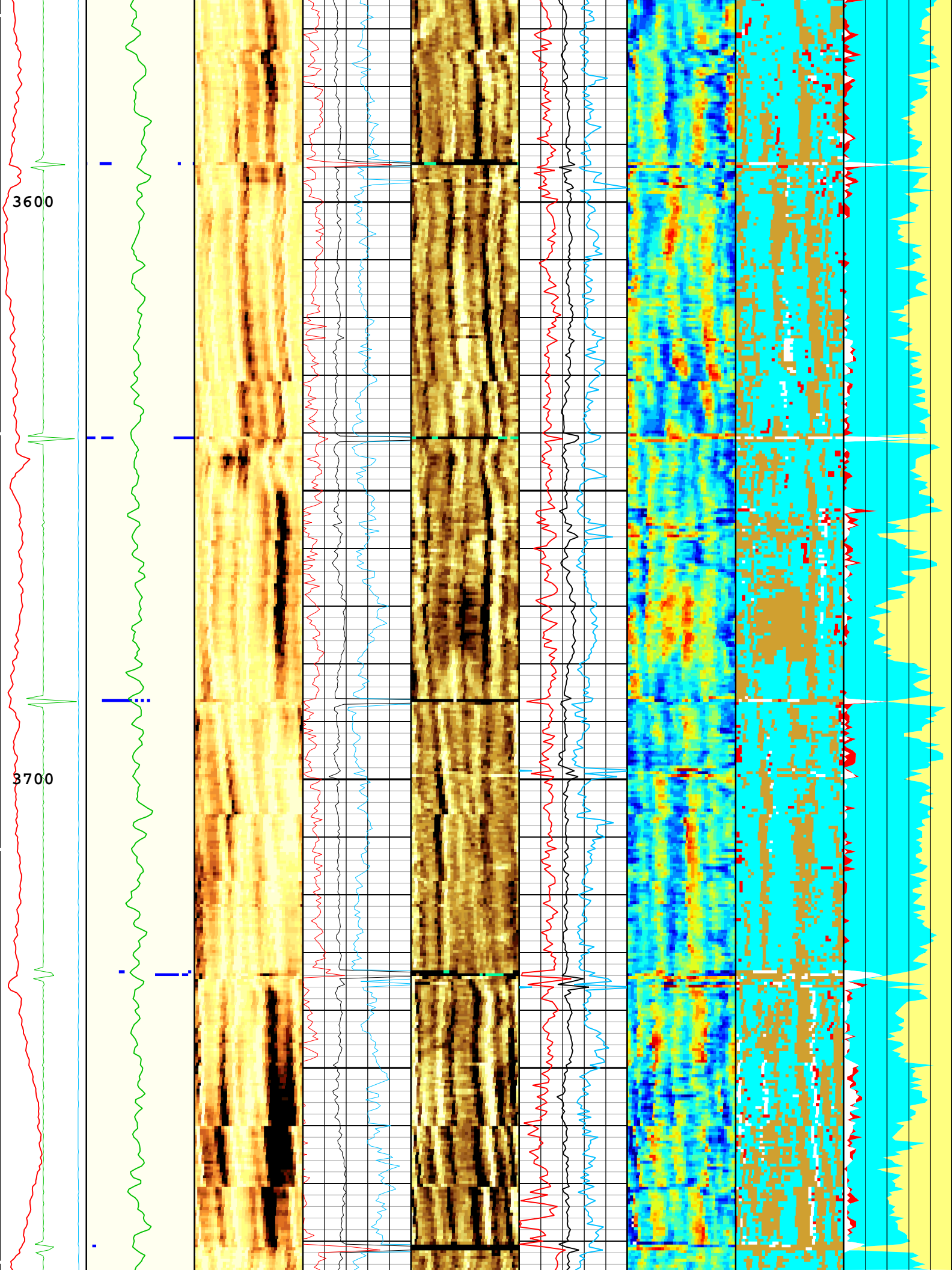


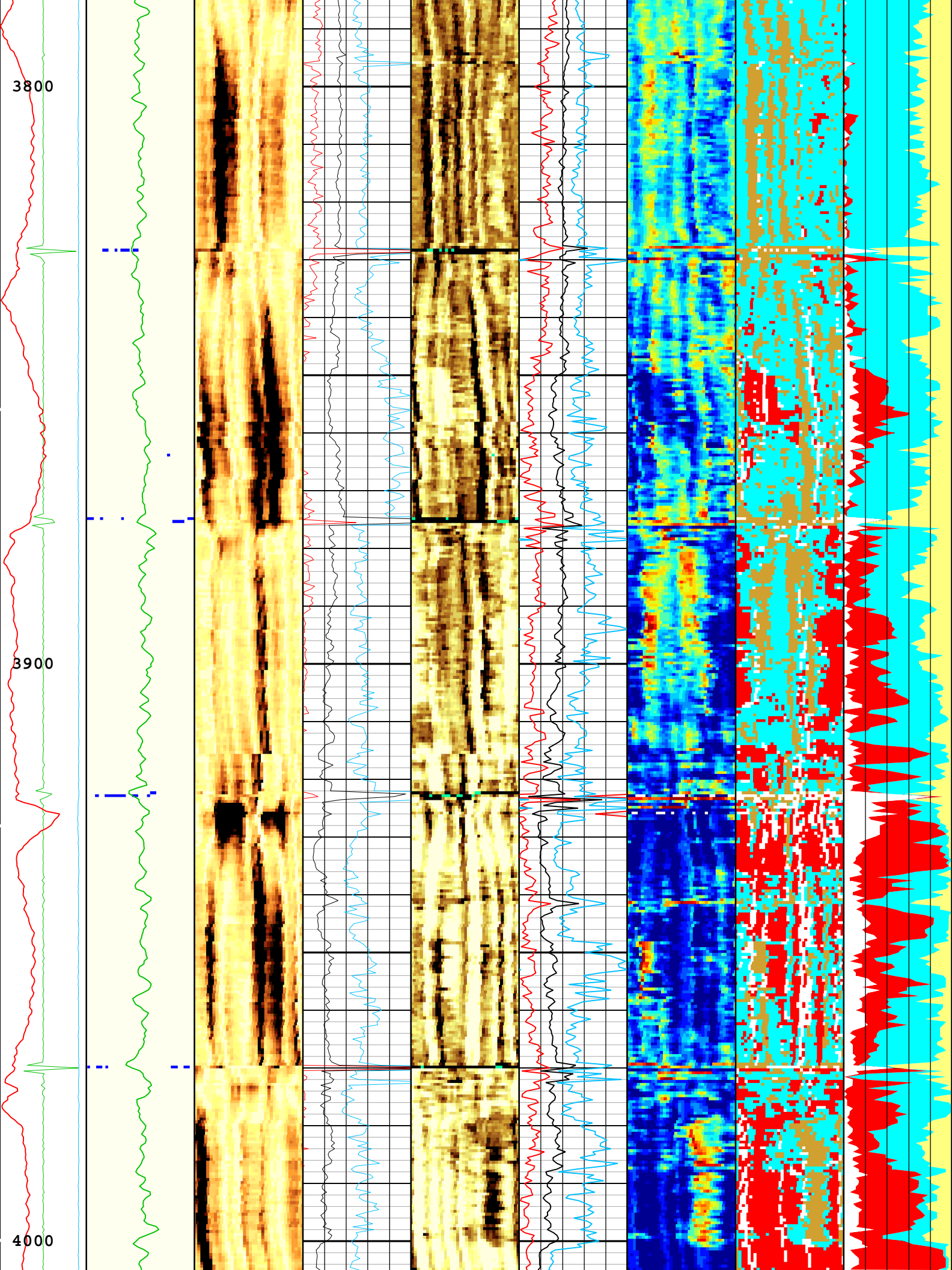


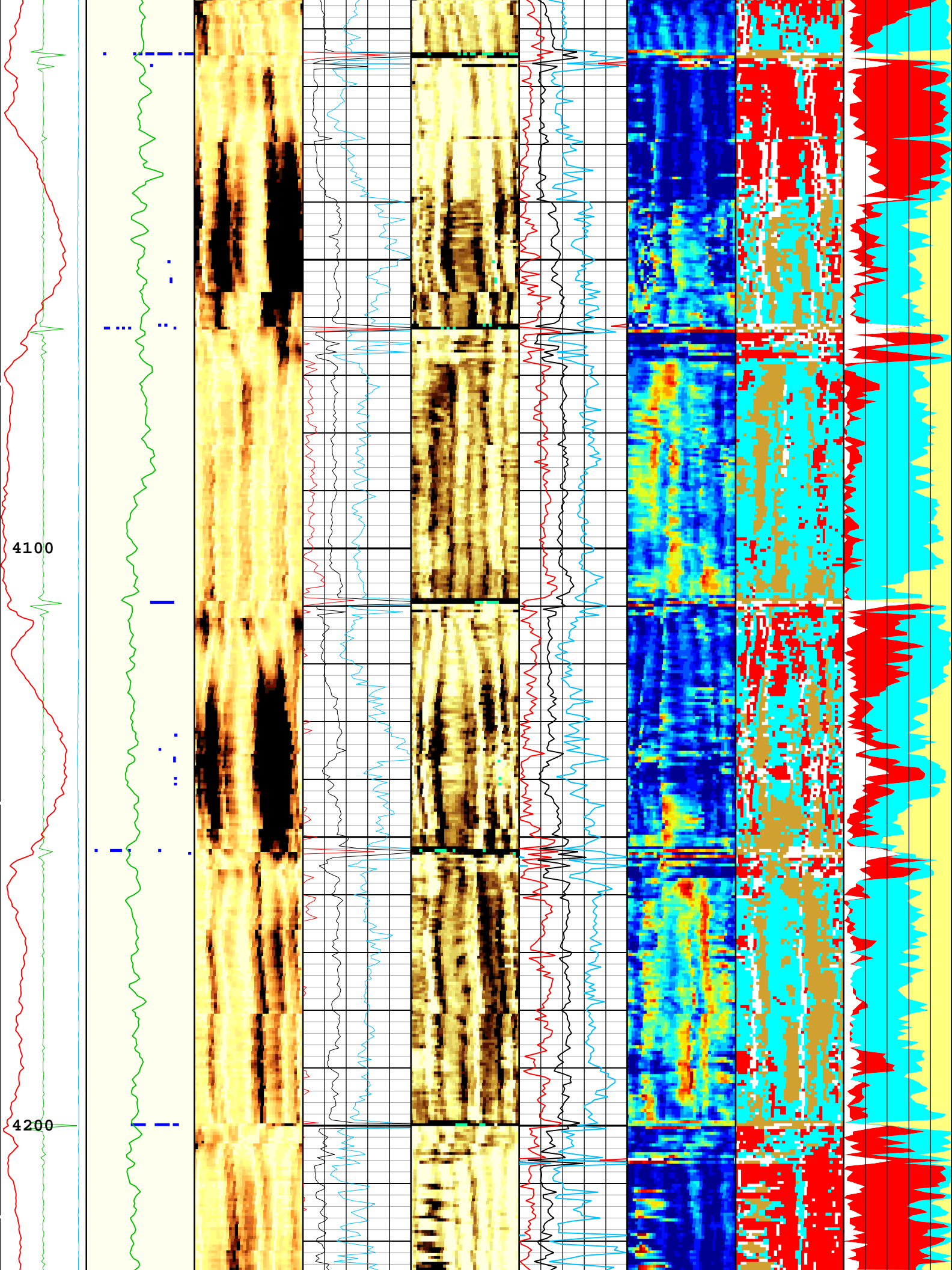


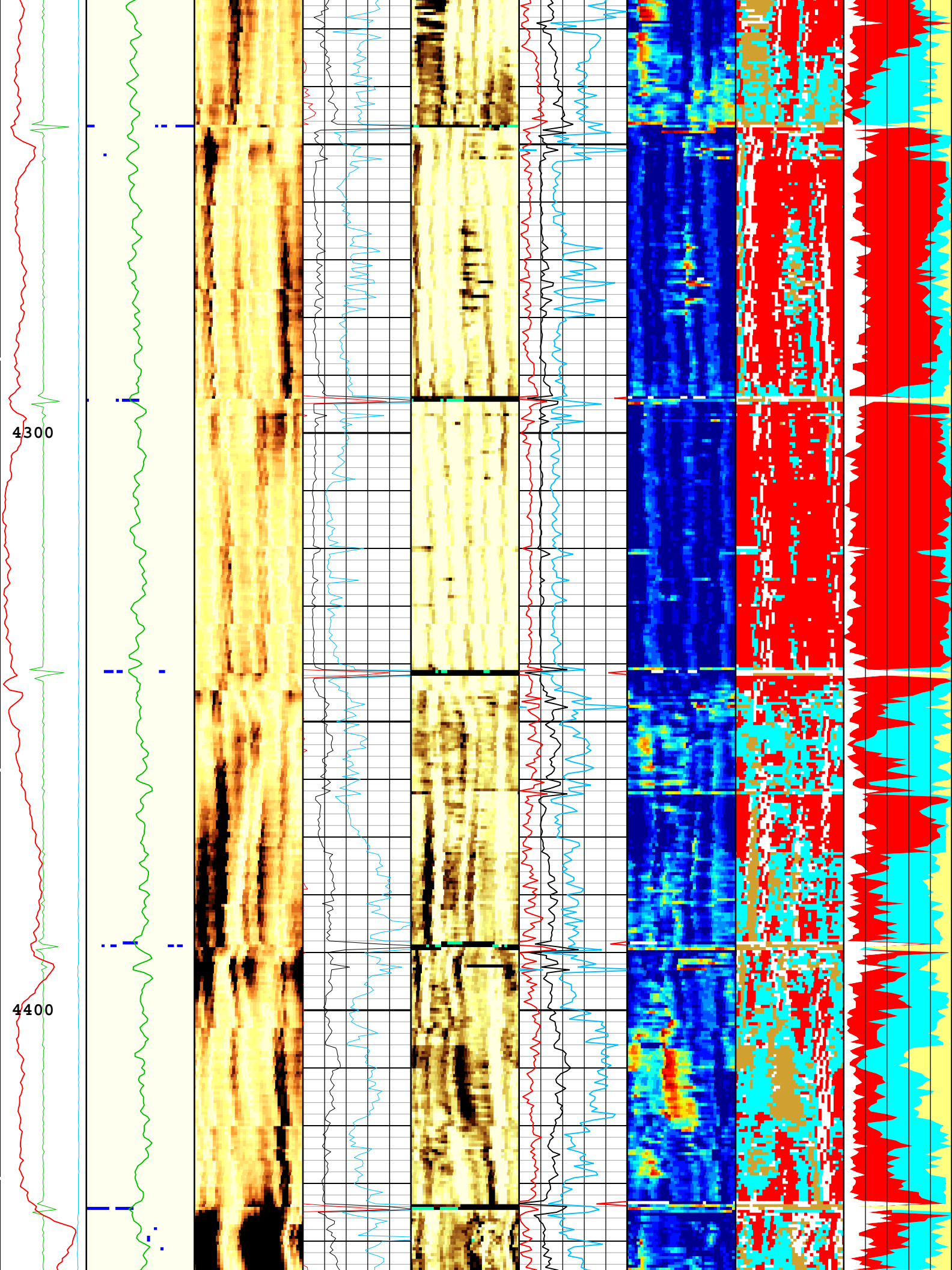


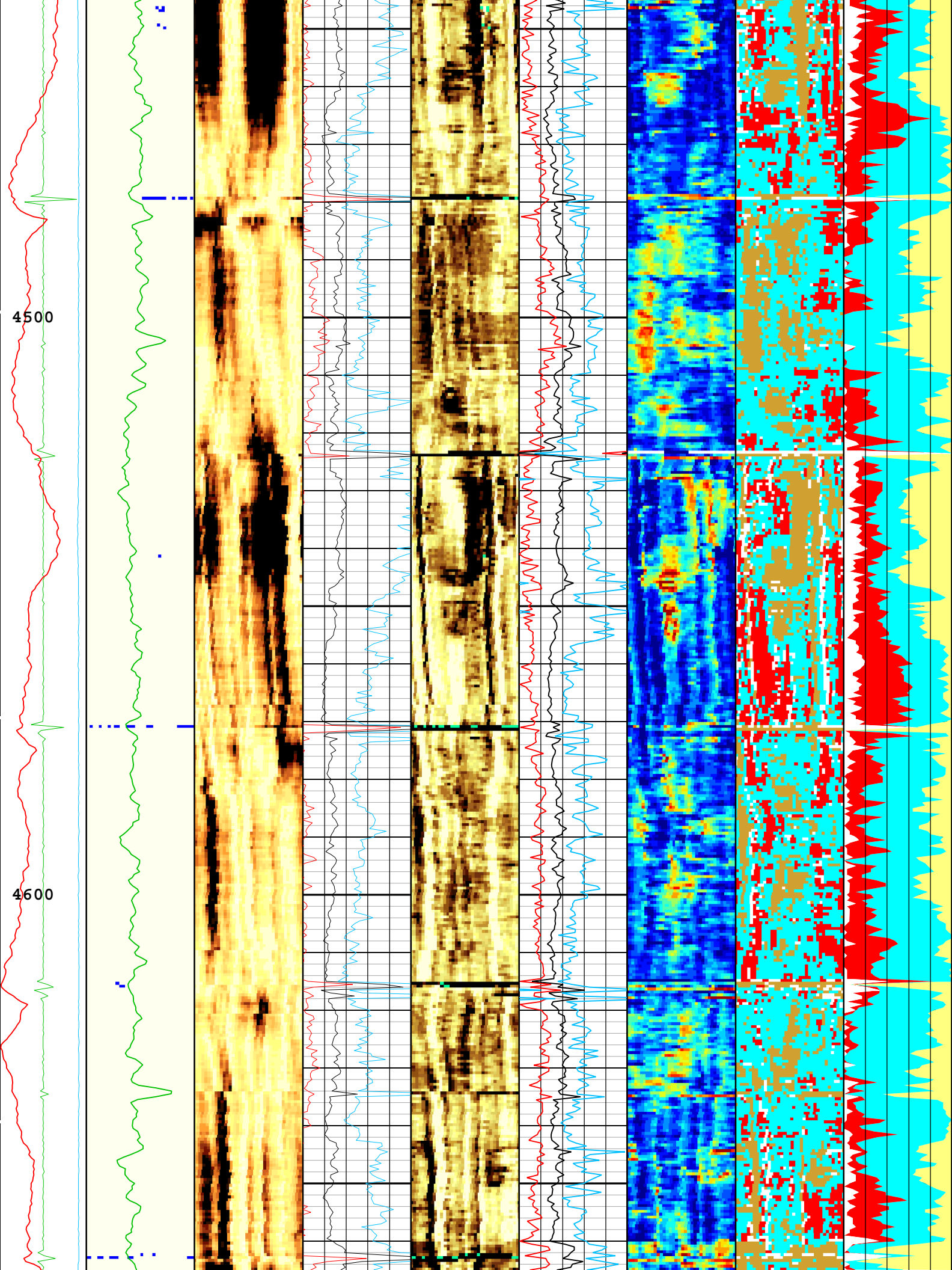


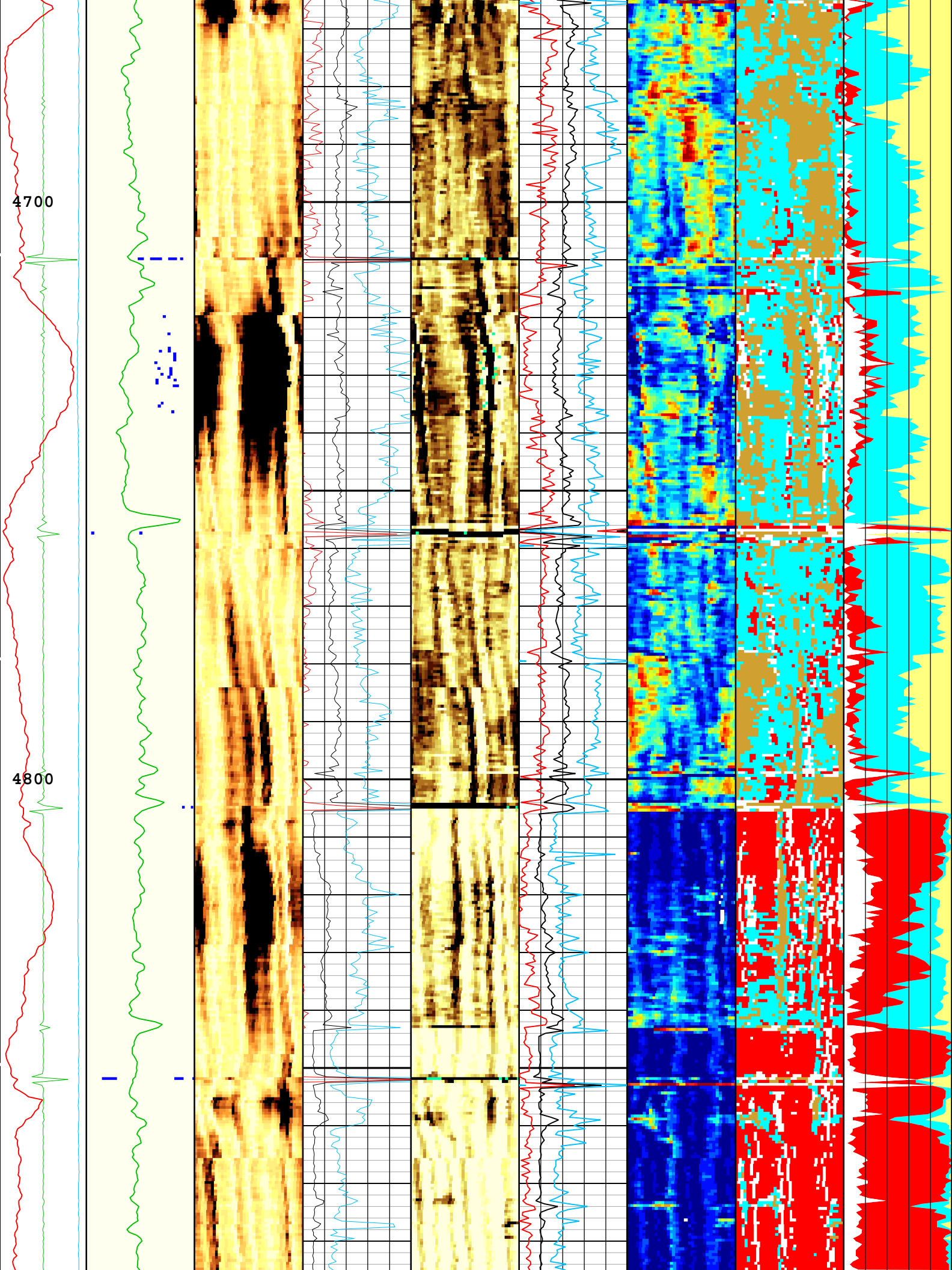


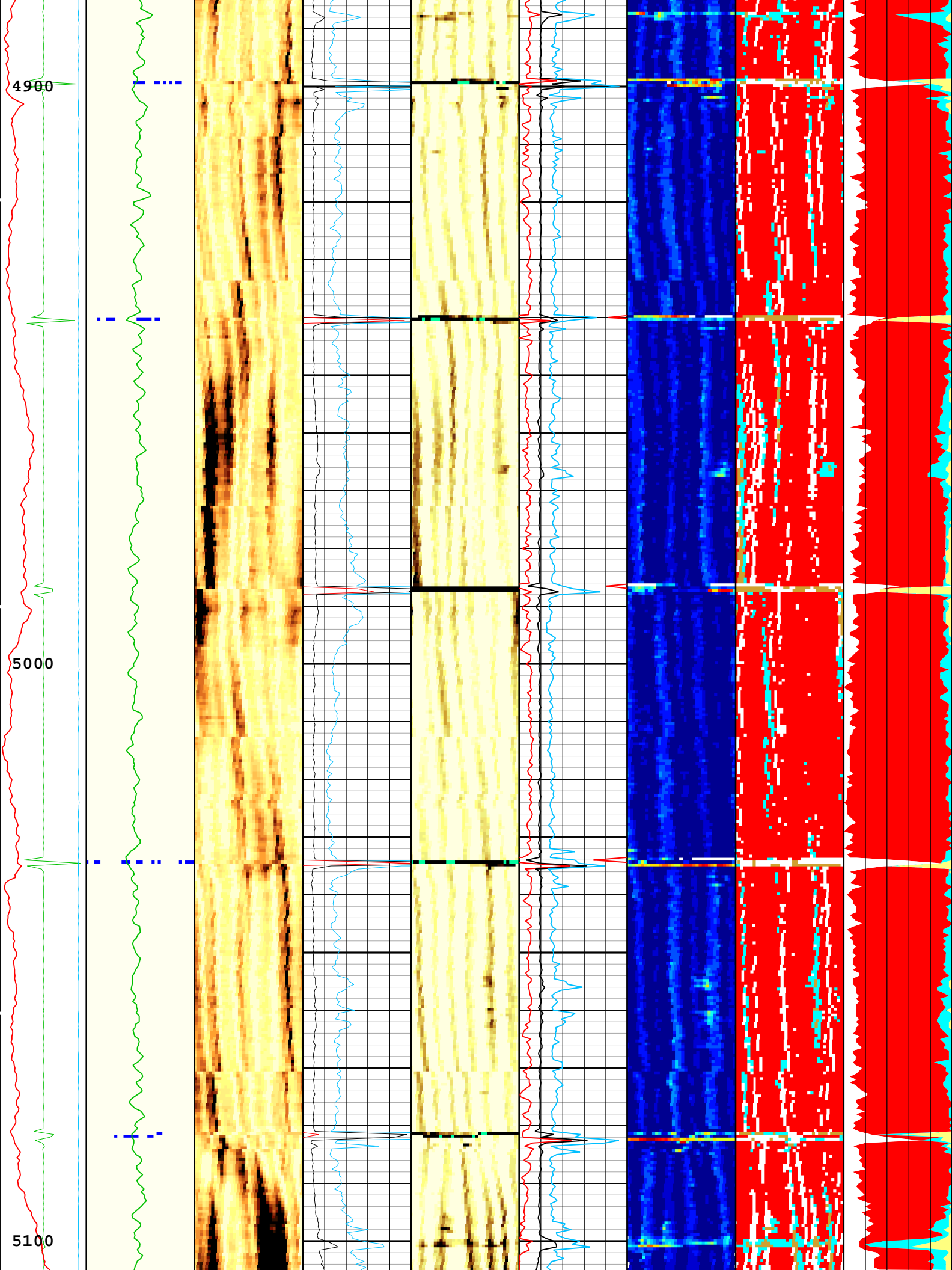


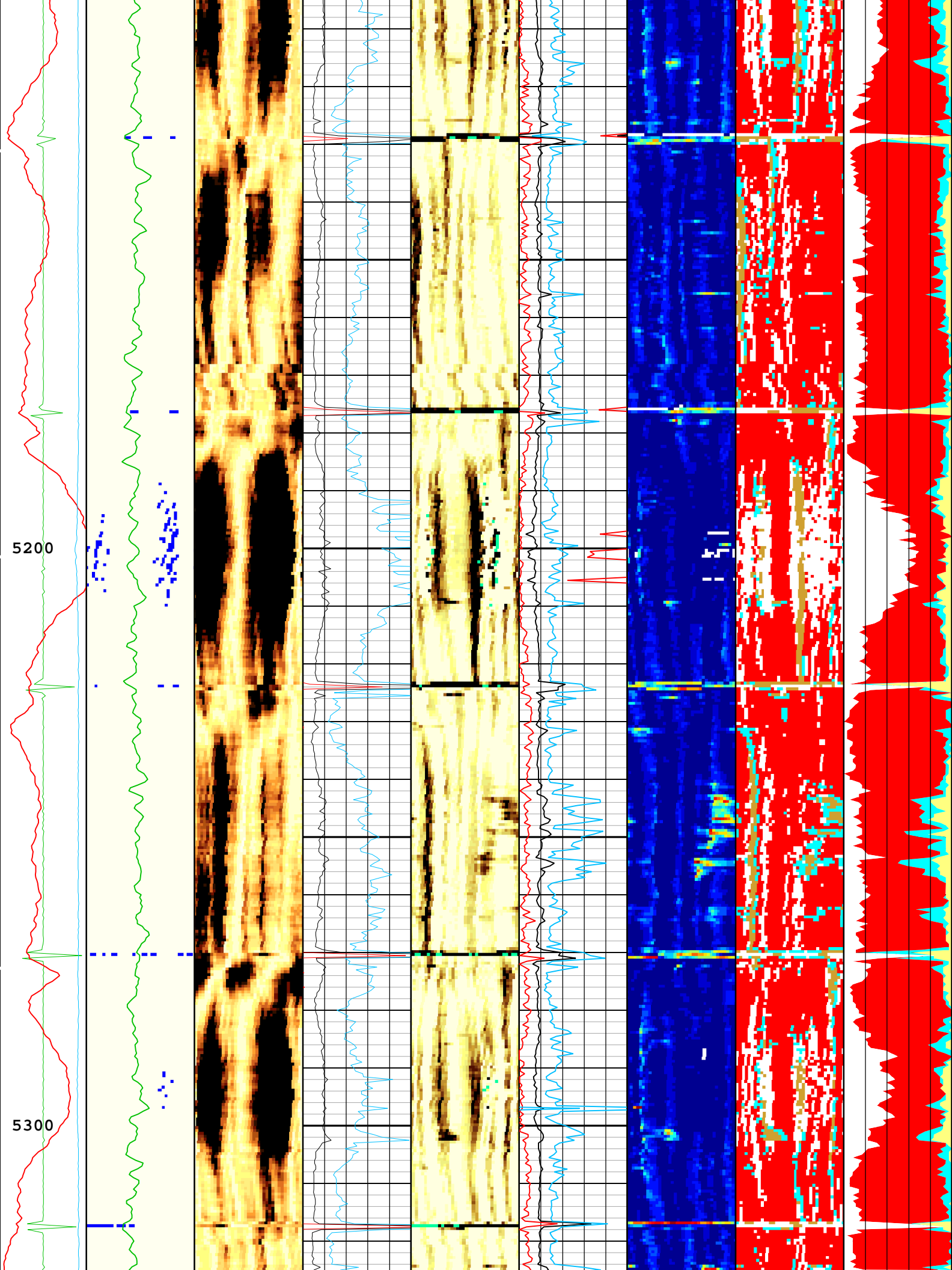


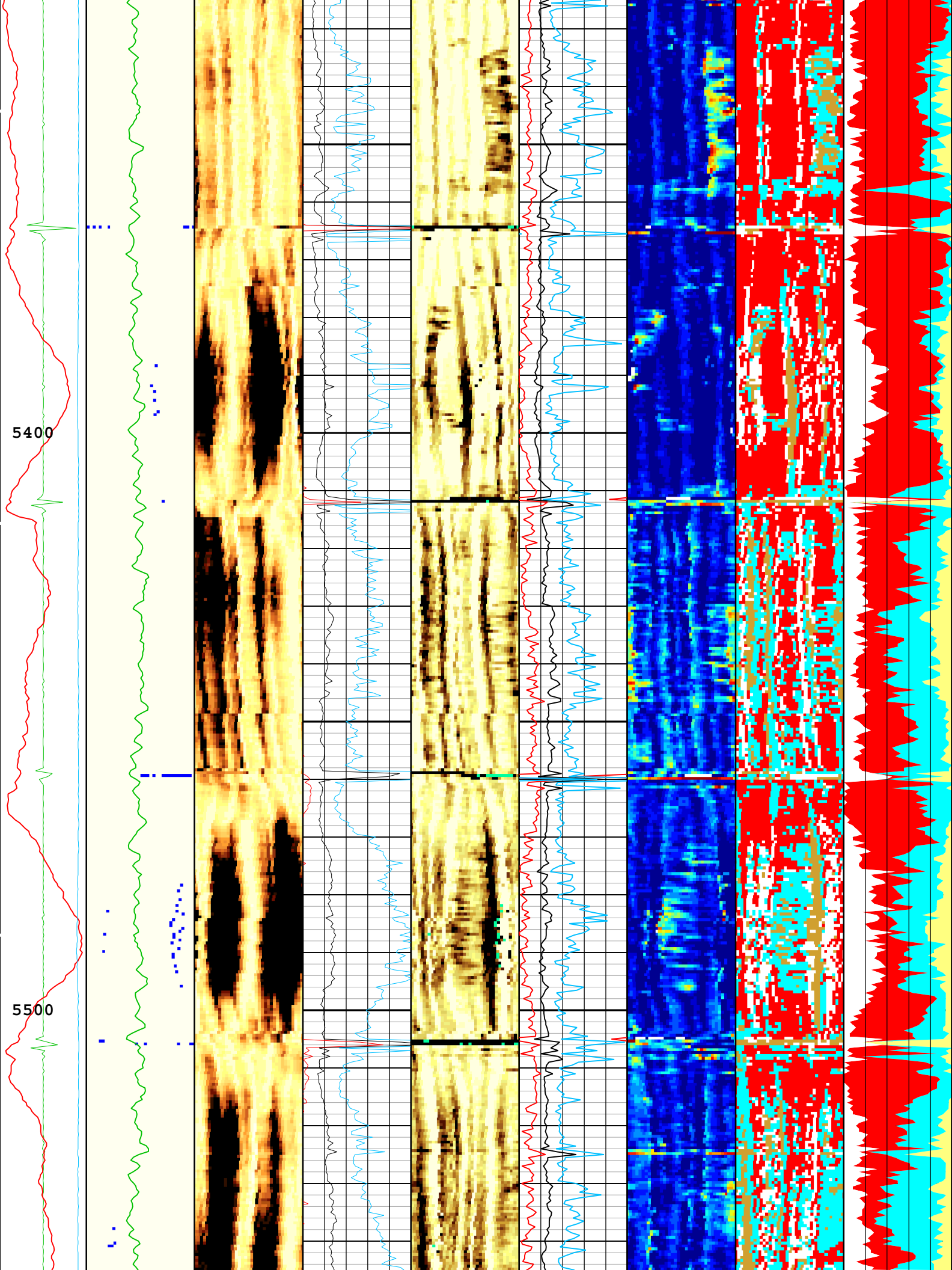


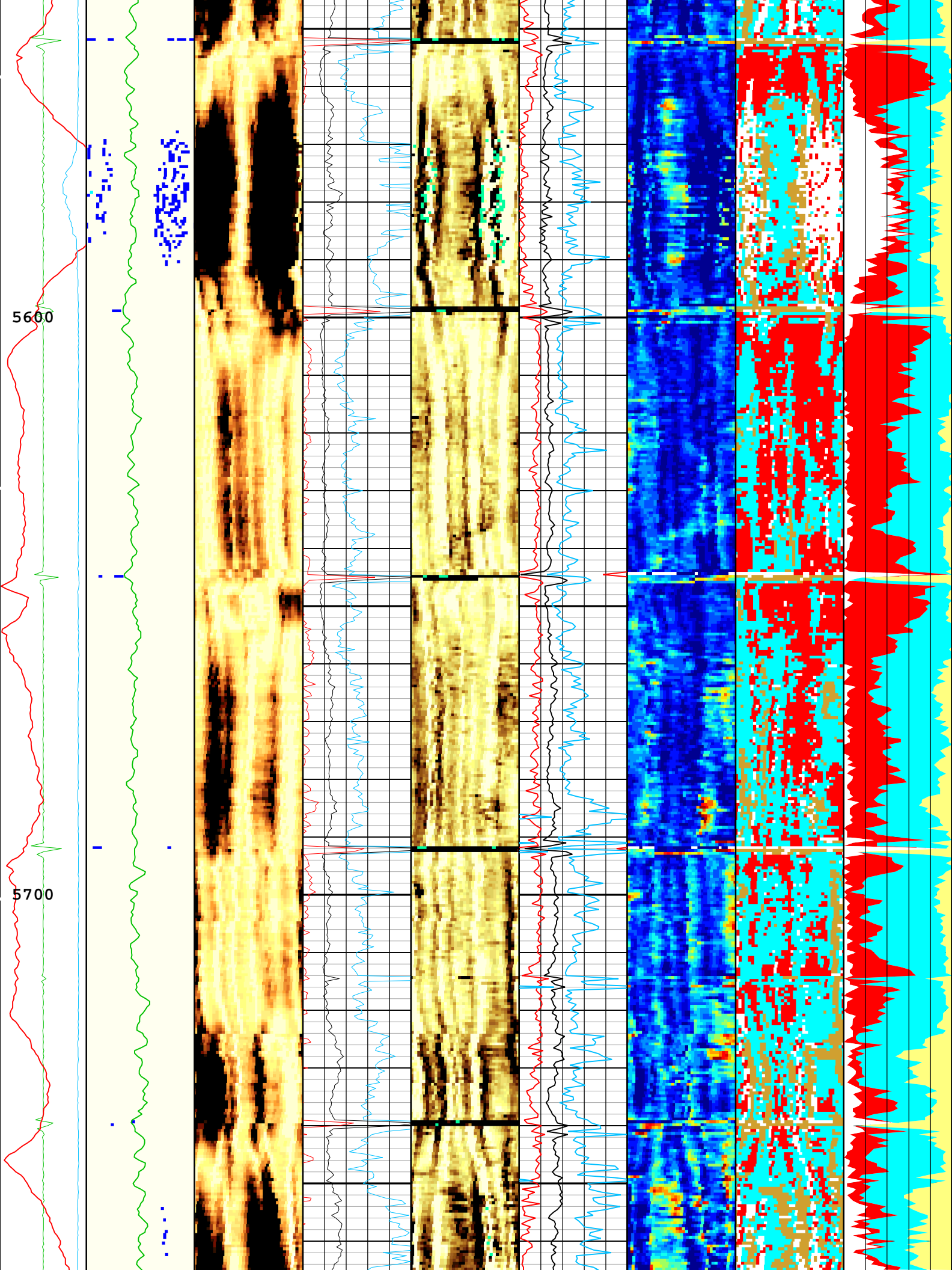


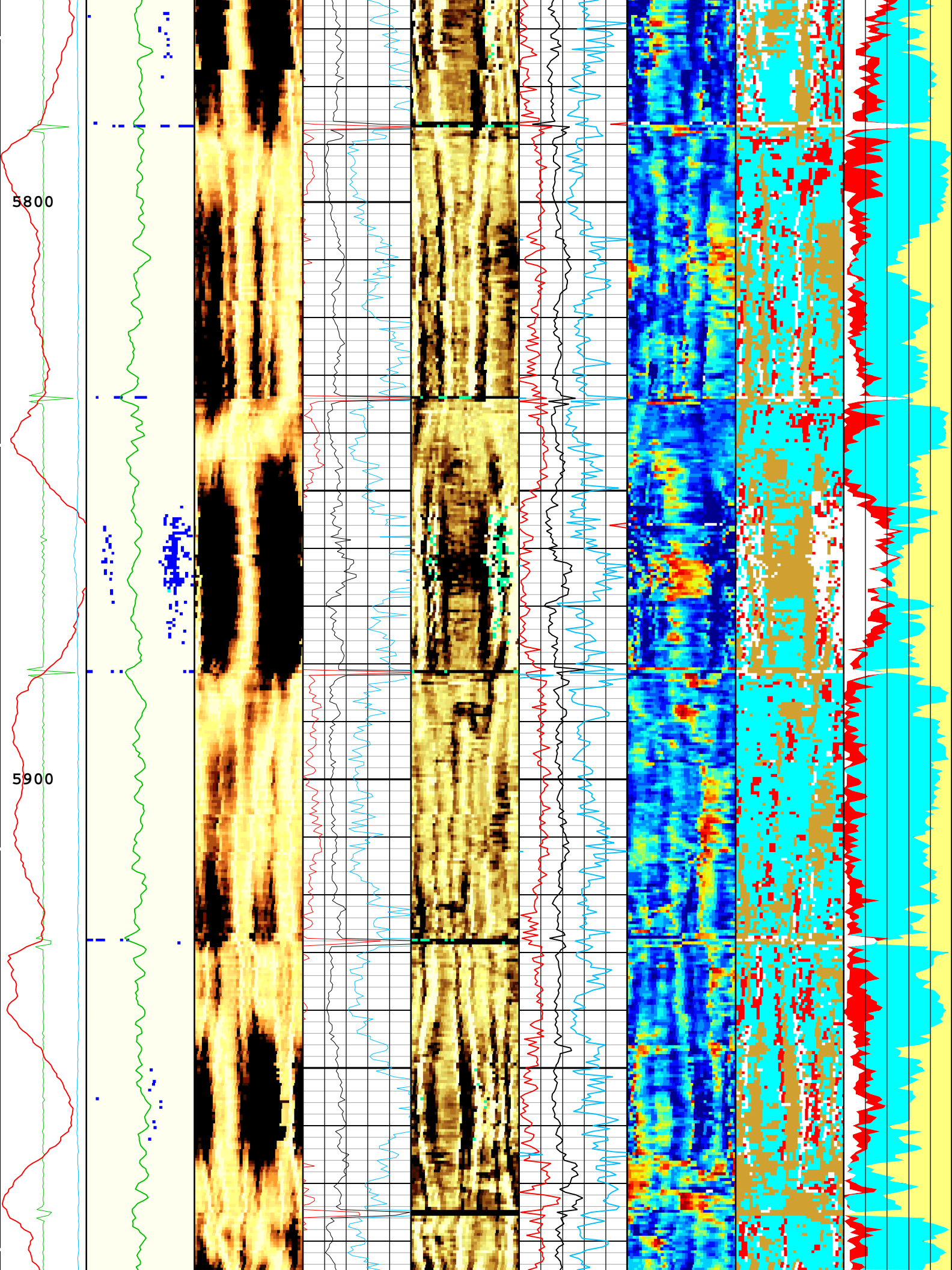


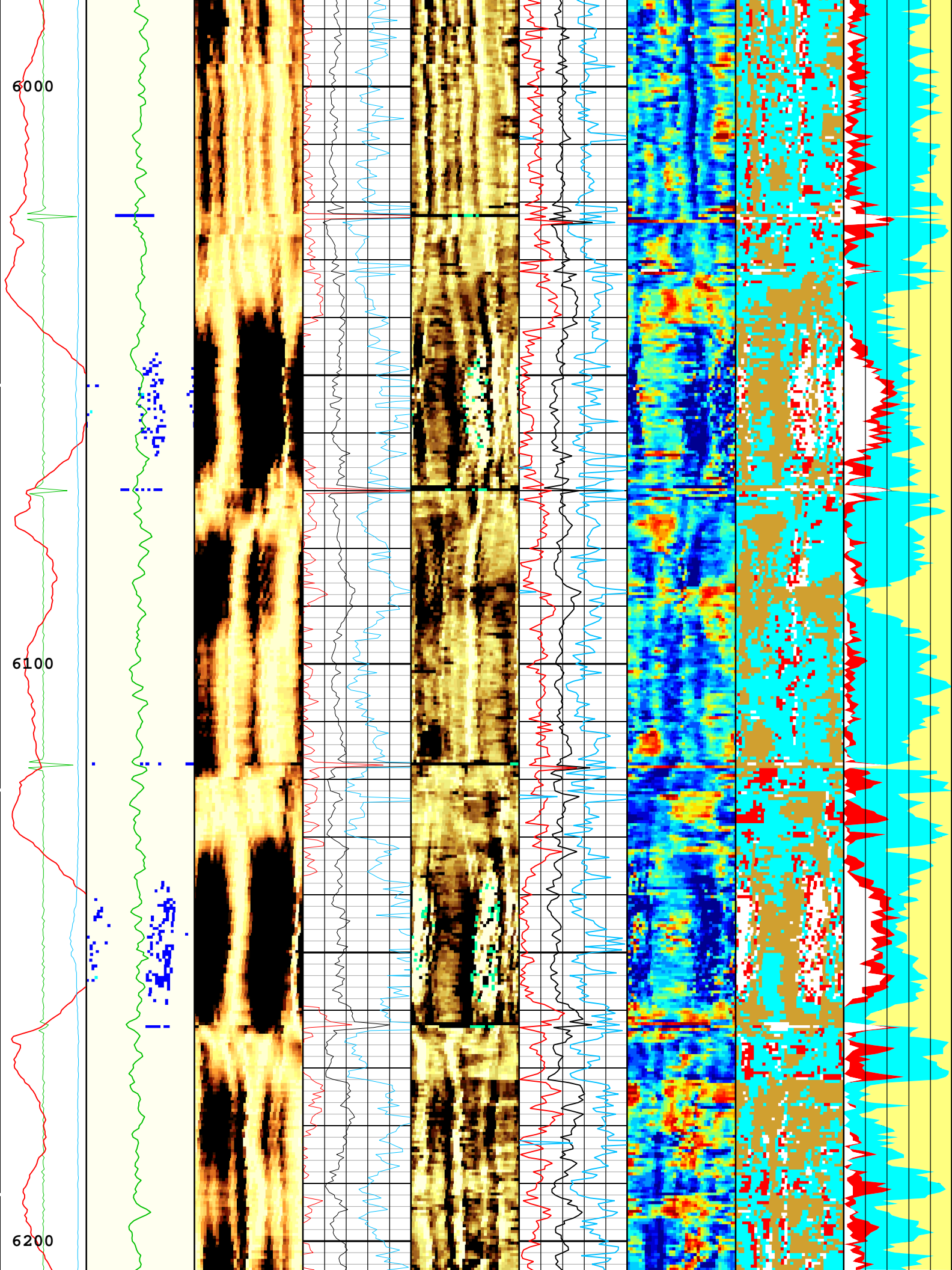


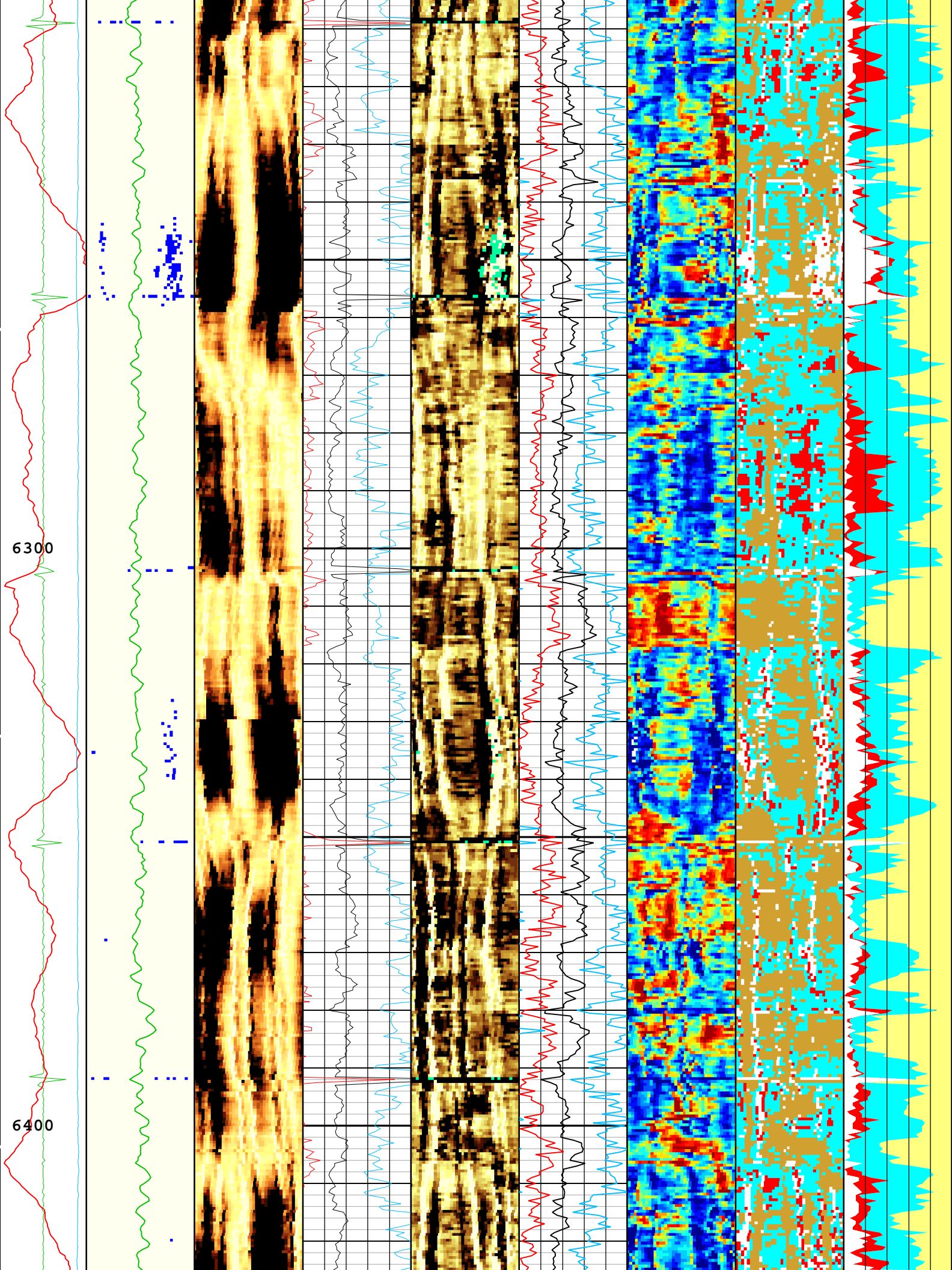


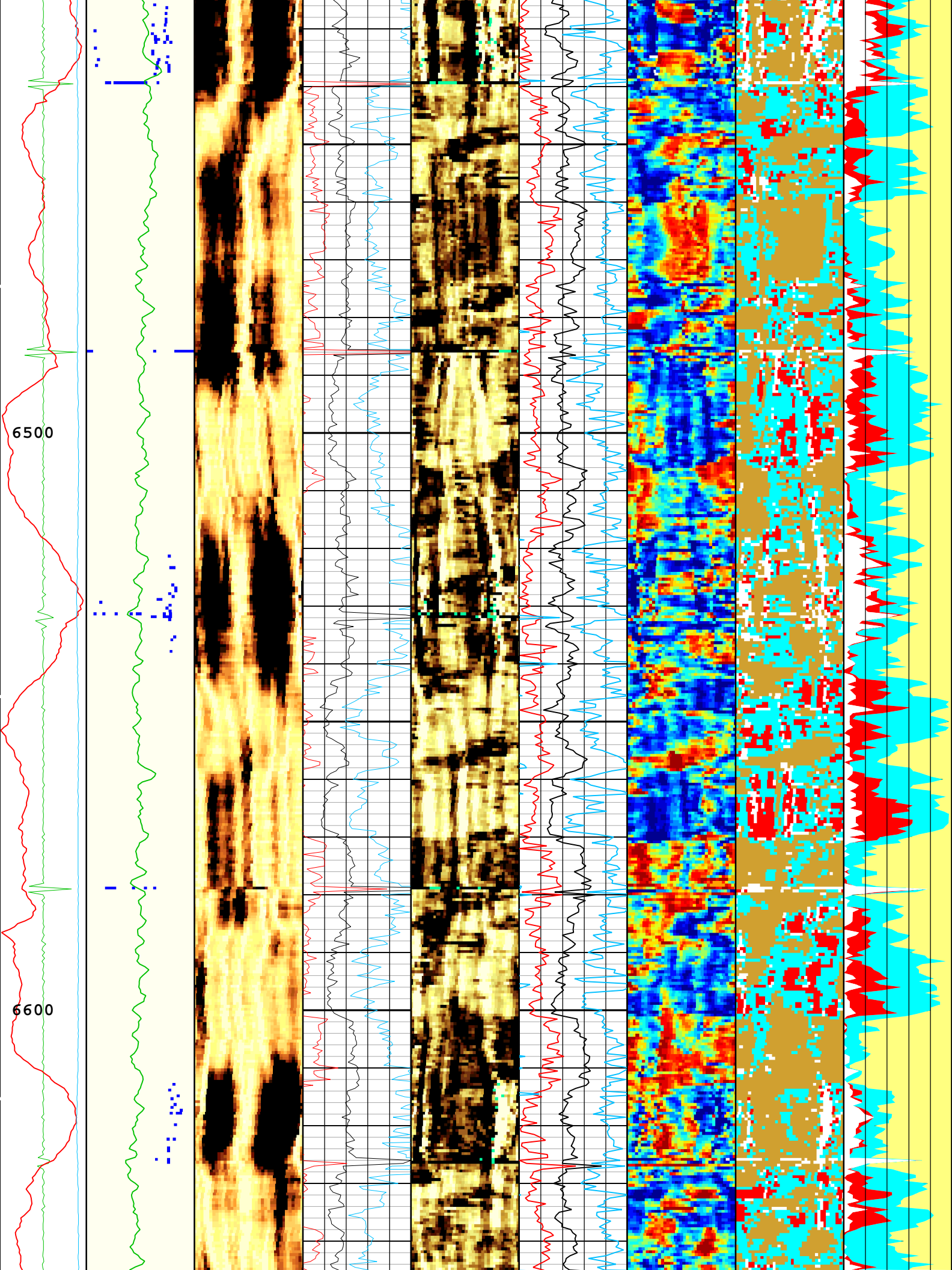


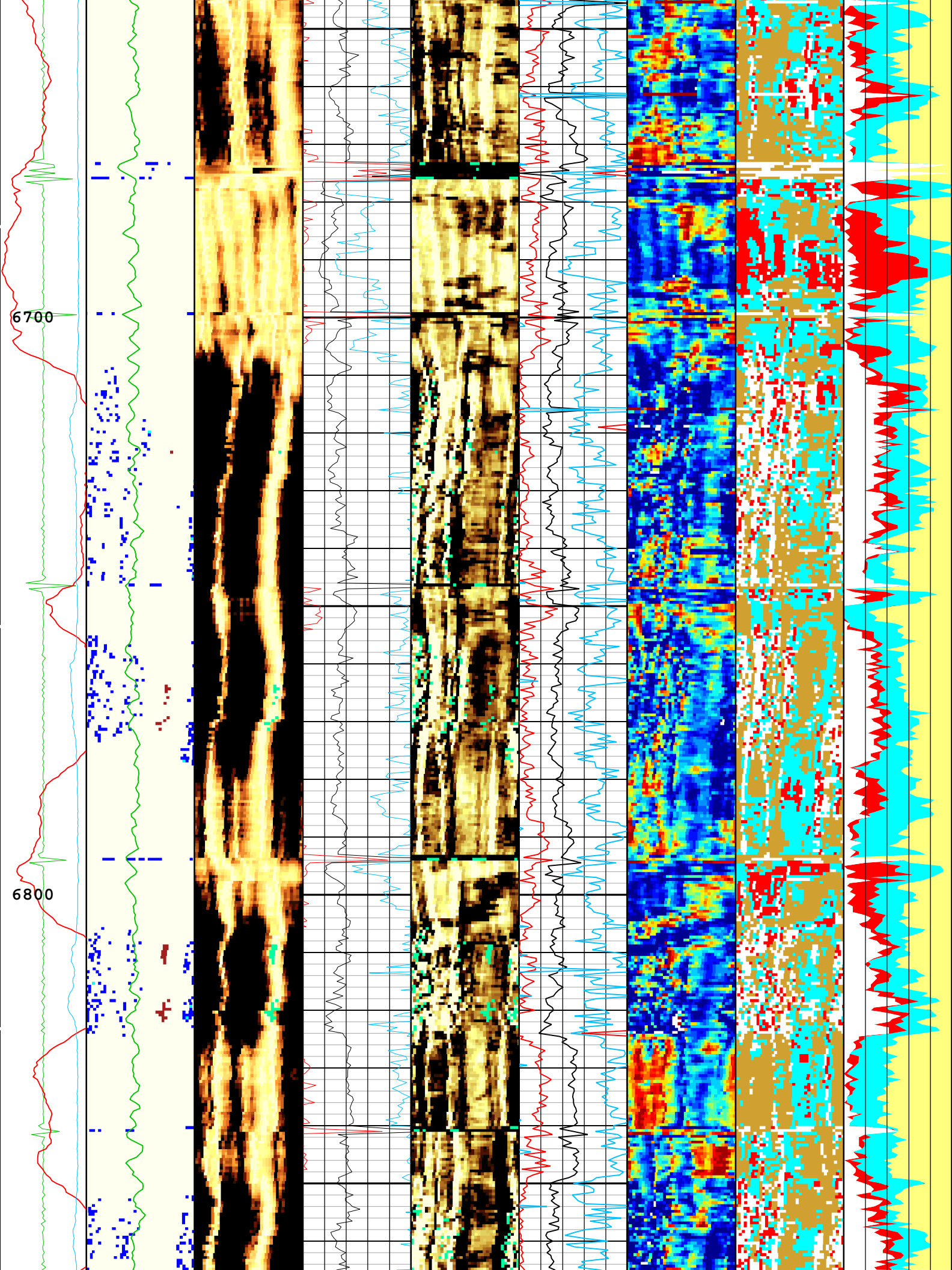


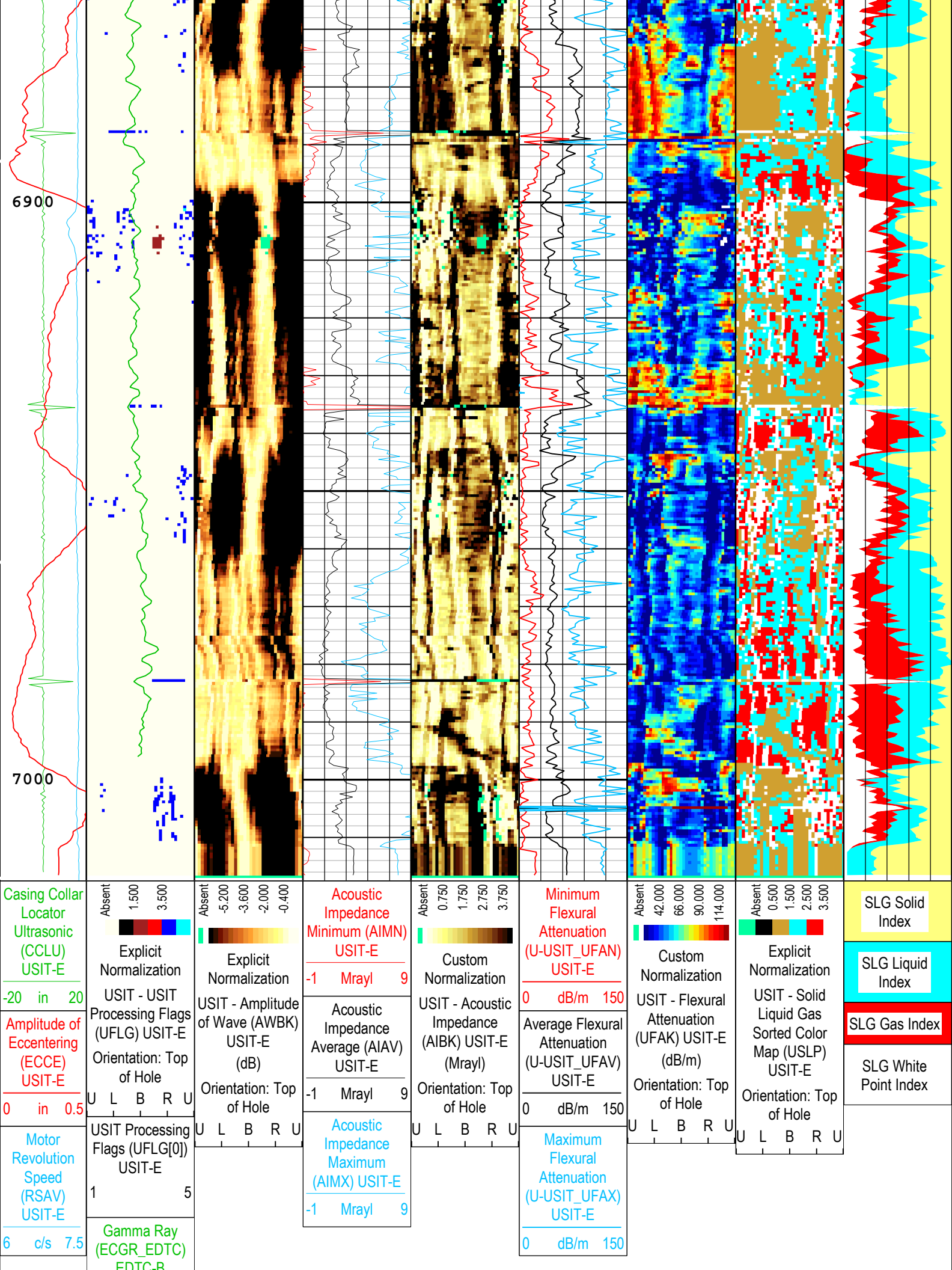












EDTC-B

0gAPI150

TIME_1900 - Time Marked every 60.00 (s)

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

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

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

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

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

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

UTIM Error

Pulse Origin Not Detected

WINLEN Error

Casing Thickness Error

Loop Processing Error

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Sep-2018 22:56:07

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	14840	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.4	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-30.8	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Inversion Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.19	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.18	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
RCOD	Reference Calibrator Outer Diameter	USIT-E	4.5	in
RCSO	Reference Calibrator Standoff	USIT-E	0.842	in
RCTH	Reference Calibrator Thickness	USIT-E	0.216	in
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
THDP	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	1.72	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-35.5	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	1.76	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	60	2186
BS	8.5	2186	7017.5
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	Time Zoned	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	Time Zoned	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	Time Zoned	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	Time Zoned	us
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
USSP	Ultrasonic Service	USIT-E	IBC	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	Time Zoned	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	60	19-Sep-2018 12:30:39	19-Sep-2018 12:44:04	7018.14	6116.65
EMXV	70	19-Sep-2018 12:44:04	19-Sep-2018 14:13:56	6116.65	57.25
U-USIT_UFWB	137	19-Sep-2018 12:30:39	19-Sep-2018 12:31:20	7018.14	7003.72

U-USIT_UFWB	124.26	19-Sep-2018 12:31:20	19-Sep-2018 14:13:56	7003.72	57.25
U-USIT_UFWE	177	19-Sep-2018 12:30:39	19-Sep-2018 12:31:45	7018.14	6978.72
U-USIT_UFWE	176.5	19-Sep-2018 12:31:45	19-Sep-2018 12:35:35	6978.72	6712.79
U-USIT_UFWE	184.81	19-Sep-2018 12:35:35	19-Sep-2018 12:36:05	6712.79	6677.45
U-USIT_UFWE	172.94	19-Sep-2018 12:36:05	19-Sep-2018 13:14:45	6677.45	3945.33
U-USIT_UFWE	178.88	19-Sep-2018 13:14:45	19-Sep-2018 13:24:05	3945.33	3276.18
U-USIT_UFWE	175.32	19-Sep-2018 13:24:05	19-Sep-2018 13:24:08	3276.18	3272.27
U-USIT_UFWE	169.38	19-Sep-2018 13:24:08	19-Sep-2018 13:51:53	3272.27	1315.34
U-USIT_UFWE	176.5	19-Sep-2018 13:51:53	19-Sep-2018 14:02:04	1315.34	607.68
U-USIT_UFWE	184.81	19-Sep-2018 14:02:04	19-Sep-2018 14:02:08	607.68	602.53
U-USIT_UFWE	182.44	19-Sep-2018 14:02:08	19-Sep-2018 14:02:16	602.53	593.84
U-USIT_UFWE	181.25	19-Sep-2018 14:02:16	19-Sep-2018 14:02:19	593.84	590.31
U-USIT_UFWE	176.5	19-Sep-2018 14:02:19	19-Sep-2018 14:13:56	590.31	57.25
U-USIT_UNWB	106	19-Sep-2018 12:30:39	19-Sep-2018 12:31:18	7018.14	7006.17
U-USIT_UNWB	95.77	19-Sep-2018 12:31:18	19-Sep-2018 14:13:56	7006.17	57.25
U-USIT_UNWE	146	19-Sep-2018 12:30:39	19-Sep-2018 12:36:08	7018.14	6674.31
U-USIT_UNWE	140.88	19-Sep-2018 12:36:08	19-Sep-2018 13:24:11	6674.31	3268.28
U-USIT_UNWE	131.39	19-Sep-2018 13:24:11	19-Sep-2018 13:50:01	3268.28	1446.83
U-USIT_UNWE	132.57	19-Sep-2018 13:50:01	19-Sep-2018 13:50:11	1446.83	1434.45
U-USIT_UNWE	134.95	19-Sep-2018 13:50:11	19-Sep-2018 13:51:56	1434.45	1310.98
U-USIT_UNWE	138.51	19-Sep-2018 13:51:56	19-Sep-2018 13:52:39	1310.98	1261.59
U-USIT_UNWE	140.88	19-Sep-2018 13:52:39	19-Sep-2018 13:52:46	1261.59	1253.25
U-USIT_UNWE	143.26	19-Sep-2018 13:52:46	19-Sep-2018 14:13:56	1253.25	57.25
WINB	31.88	19-Sep-2018 12:30:39	19-Sep-2018 12:39:33	7018.14	6434.87
WINB	30.7	19-Sep-2018 12:39:33	19-Sep-2018 14:13:56	6434.87	57.25
WINE	71.88	19-Sep-2018 12:30:39	19-Sep-2018 12:35:24	7018.14	6725.62
WINE	76.32	19-Sep-2018 12:35:24	19-Sep-2018 12:35:31	6725.62	6717.32
WINE	78.94	19-Sep-2018 12:35:31	19-Sep-2018 12:36:18	6717.32	6663.05
WINE	76.37	19-Sep-2018 12:36:18	19-Sep-2018 12:36:32	6663.05	6646.96
WINE	74.78	19-Sep-2018 12:36:32	19-Sep-2018 12:39:28	6646.96	6440.86
WINE	72.85	19-Sep-2018 12:39:28	19-Sep-2018 14:13:56	6440.86	57.25

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[13]:Up	Up	57.25 ft	7018.14 ft	19-Sep-2018 12:30:39 PM	19-Sep-2018 2:13:56 PM	ON	7.39 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources Operating LLC	Well:Davis 1D-9H-G266
		ONE: Log[13]:Up:S013

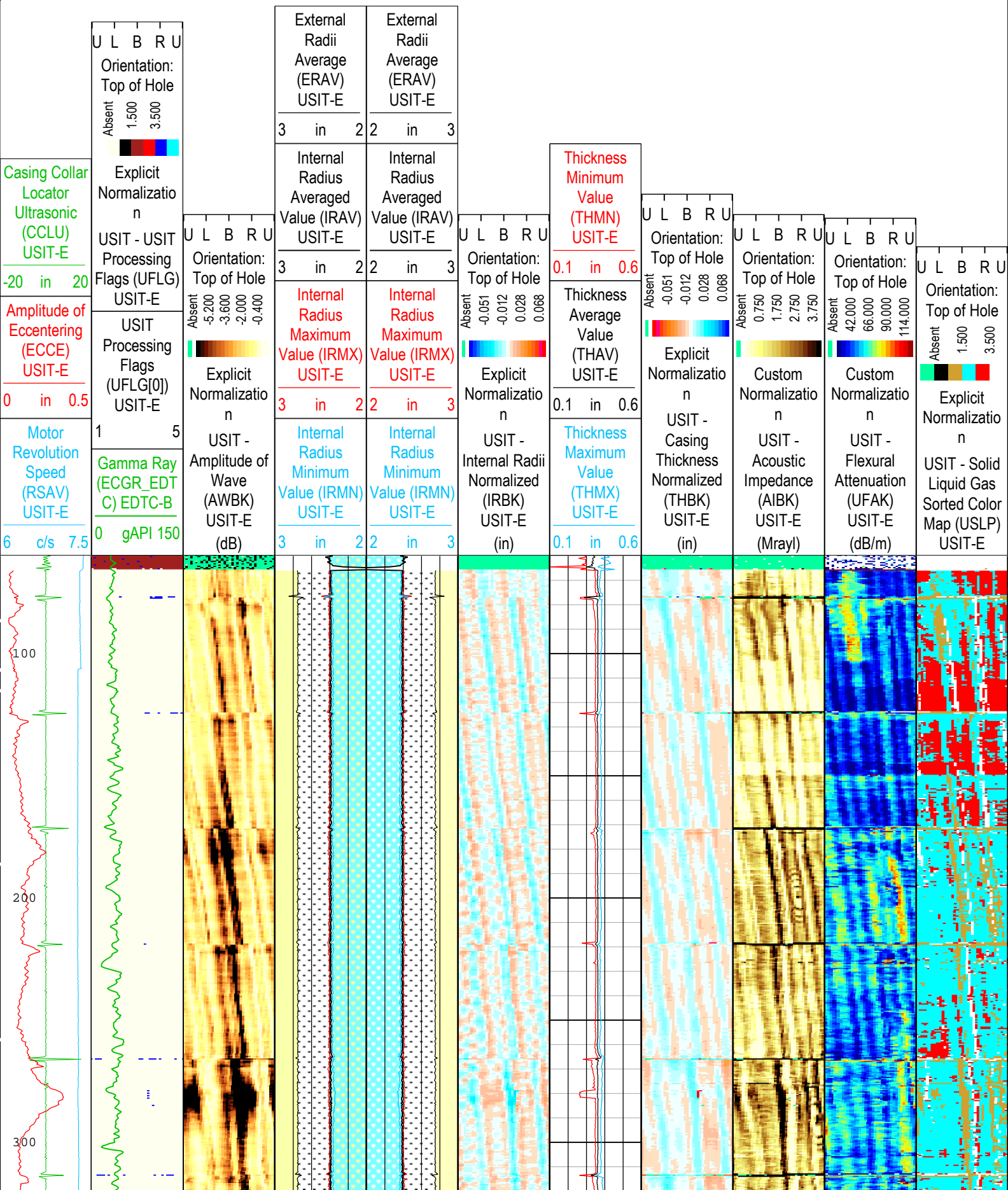
Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 19-Sep-2018 22:56:57

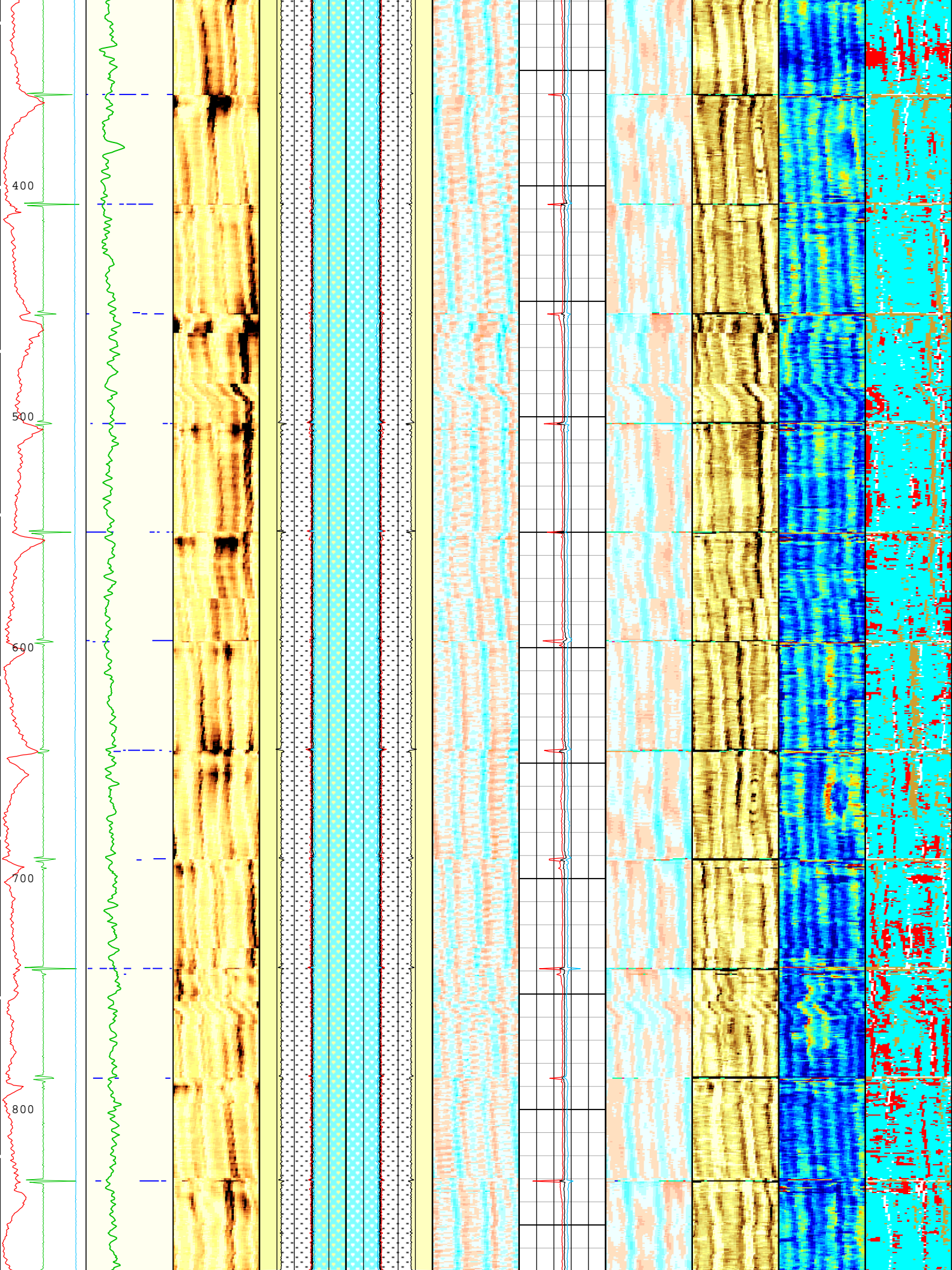
USIT Processing Flags (UFLG[0]) USIT-E

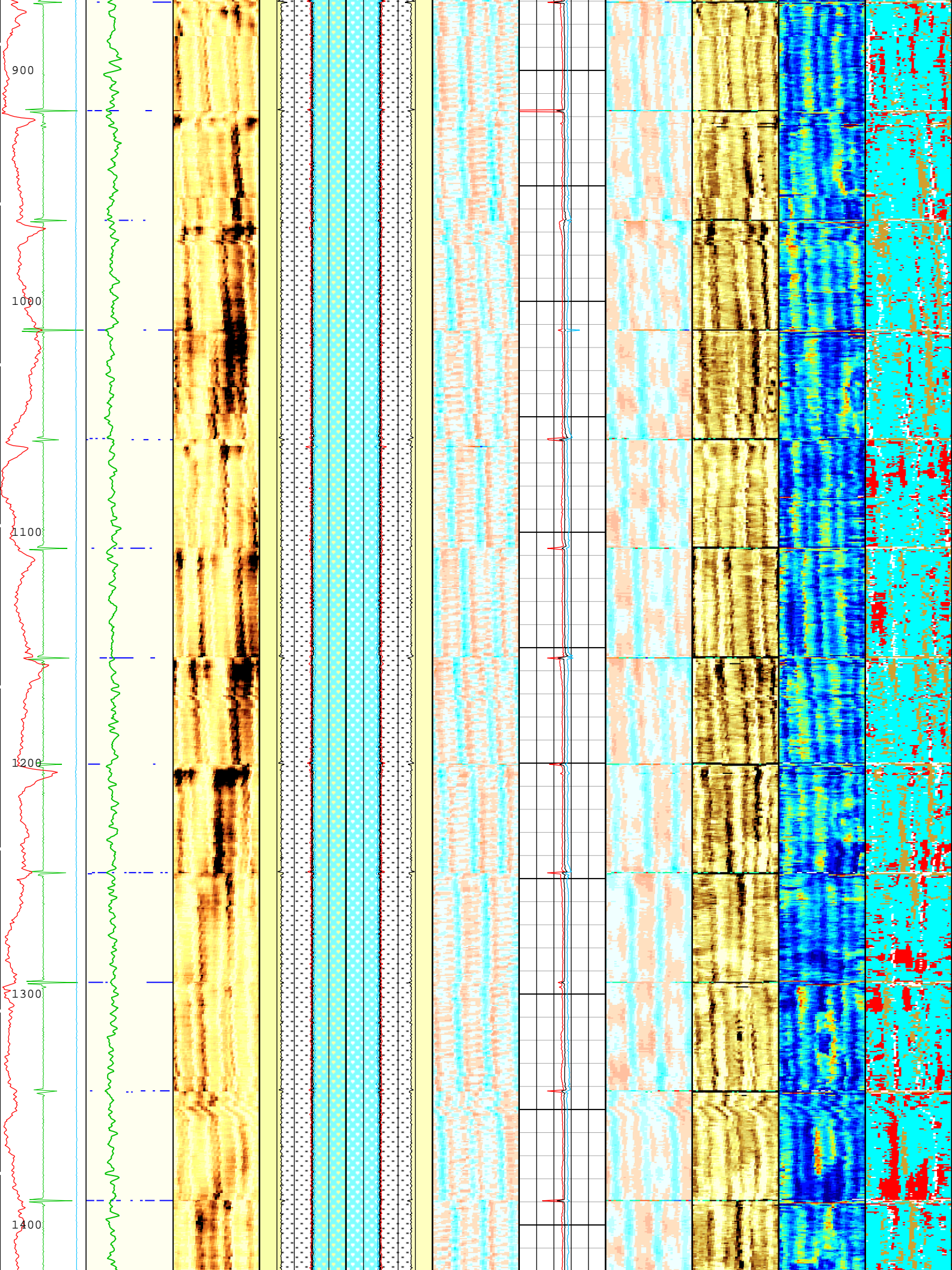
1. UFLG 1 Value within [0.0, 1.5] :  UTM Error

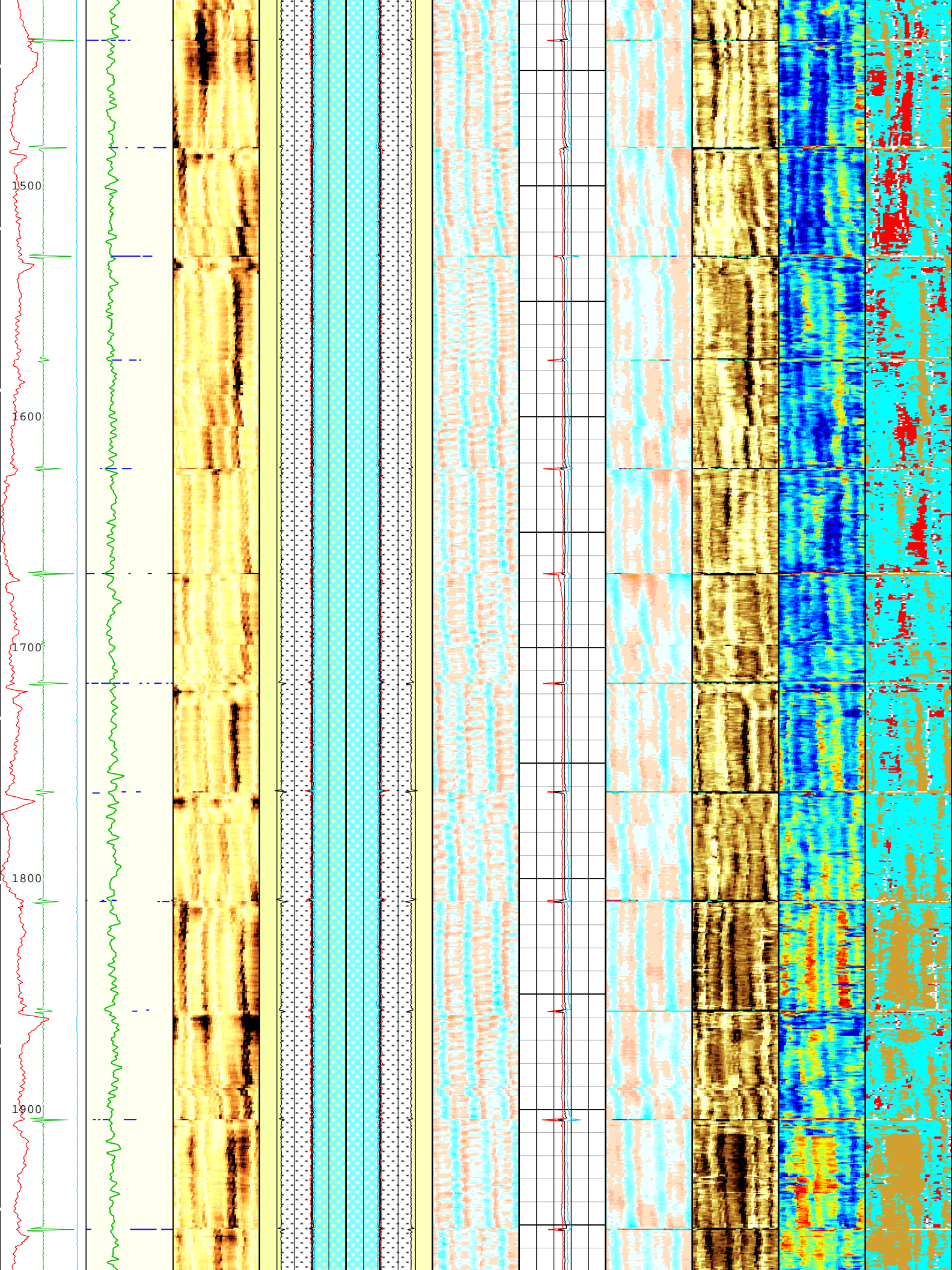
- UFLG 1 Value within [0.0 - 1.5] - :
2 - UFLG 2 Value within [1.5 - 2.5] - :
3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :
- UTIM Error
Pulse Origin Not Detected
WINLEN Error
Casing Thickness Error
Loop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

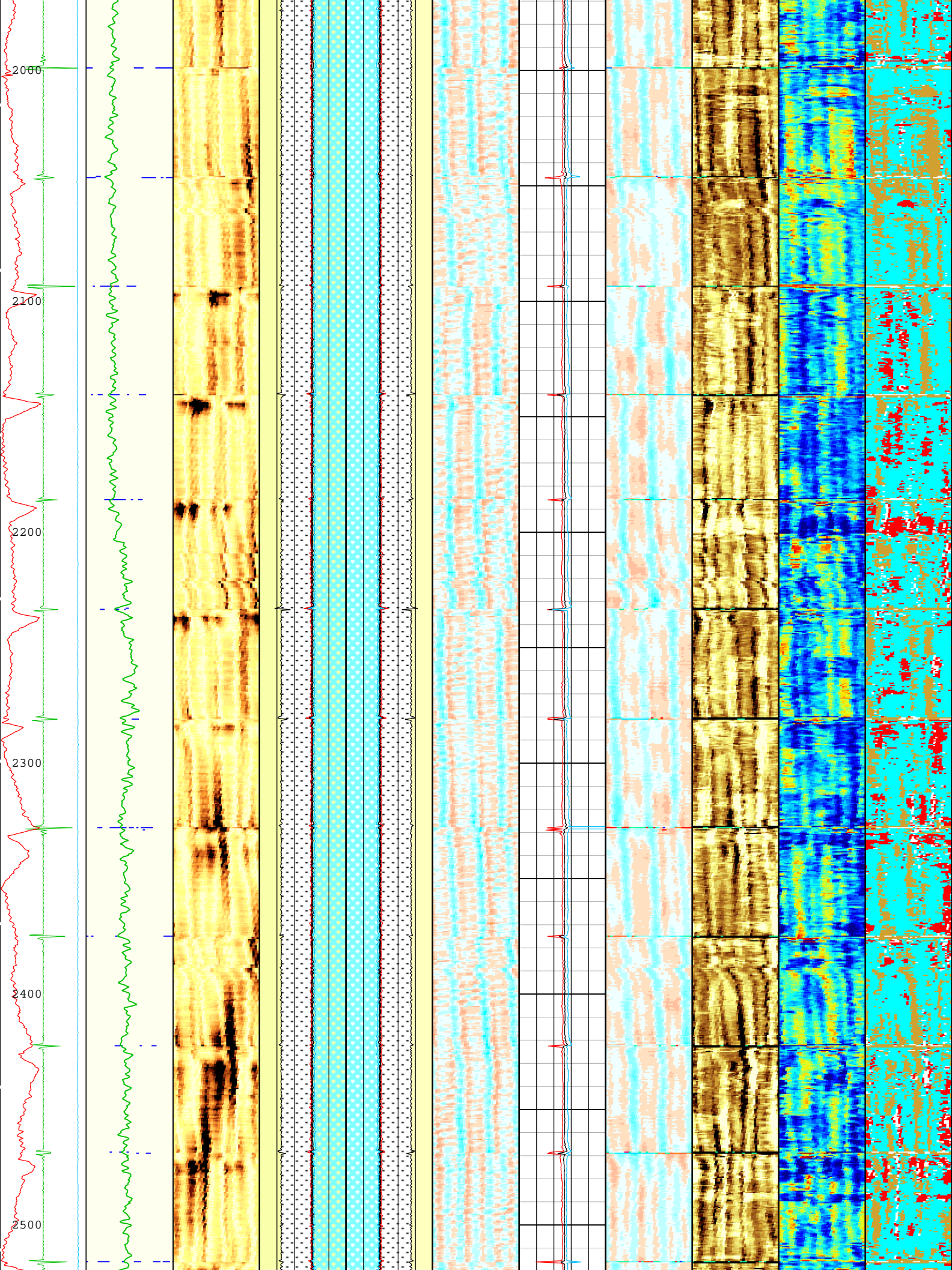
TIME_1900 - Time Marked every 60.00 (s)

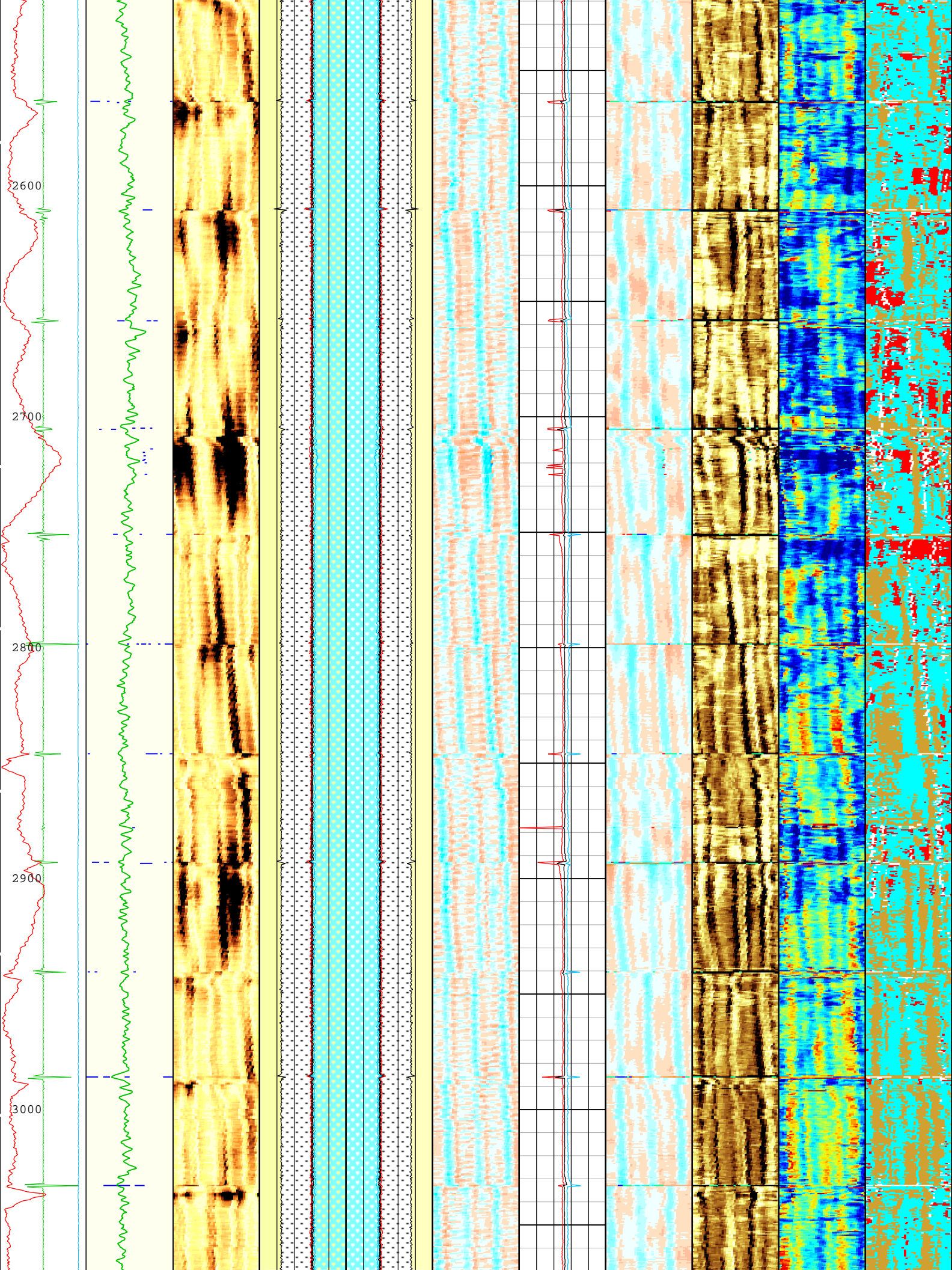


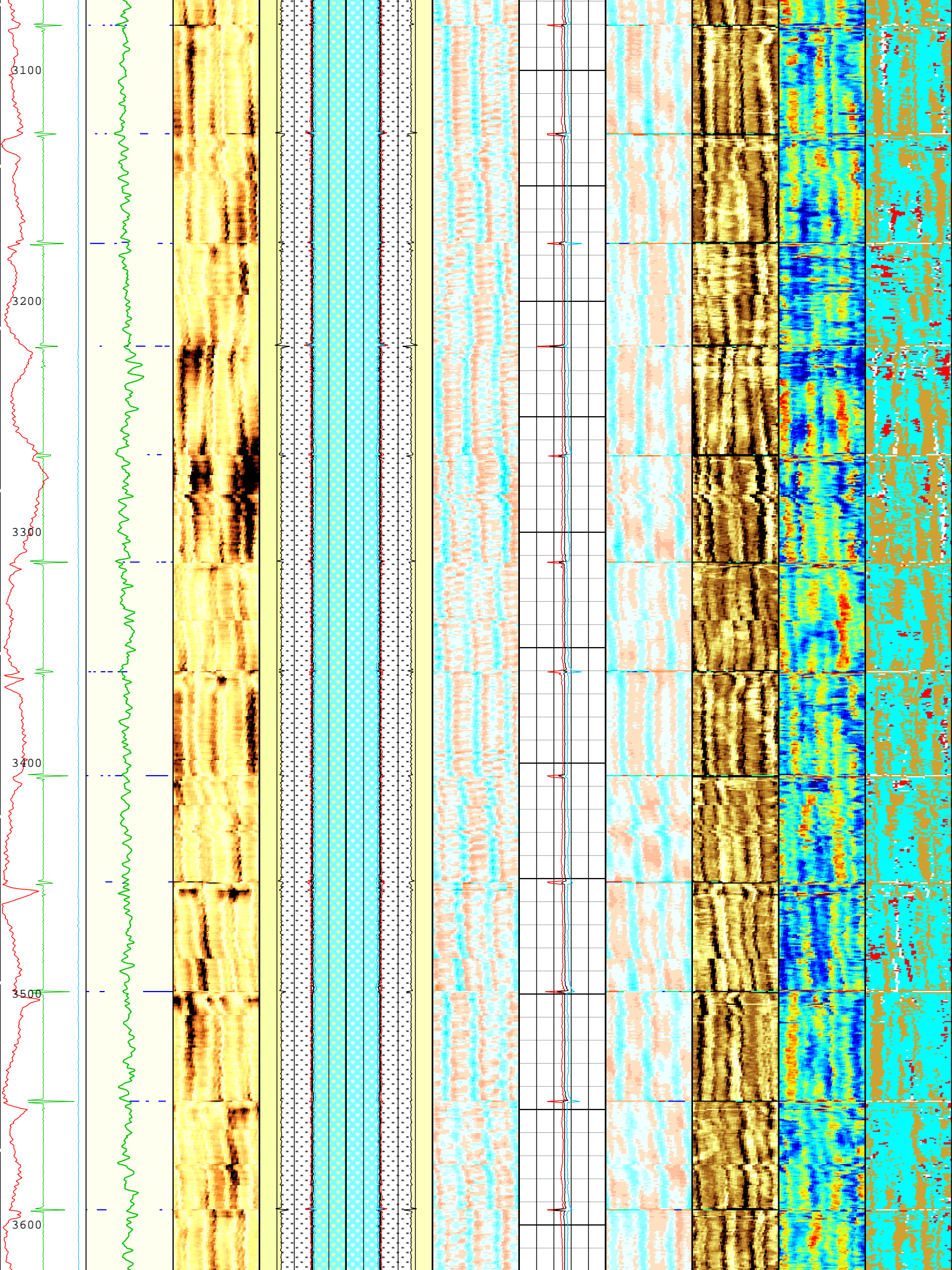


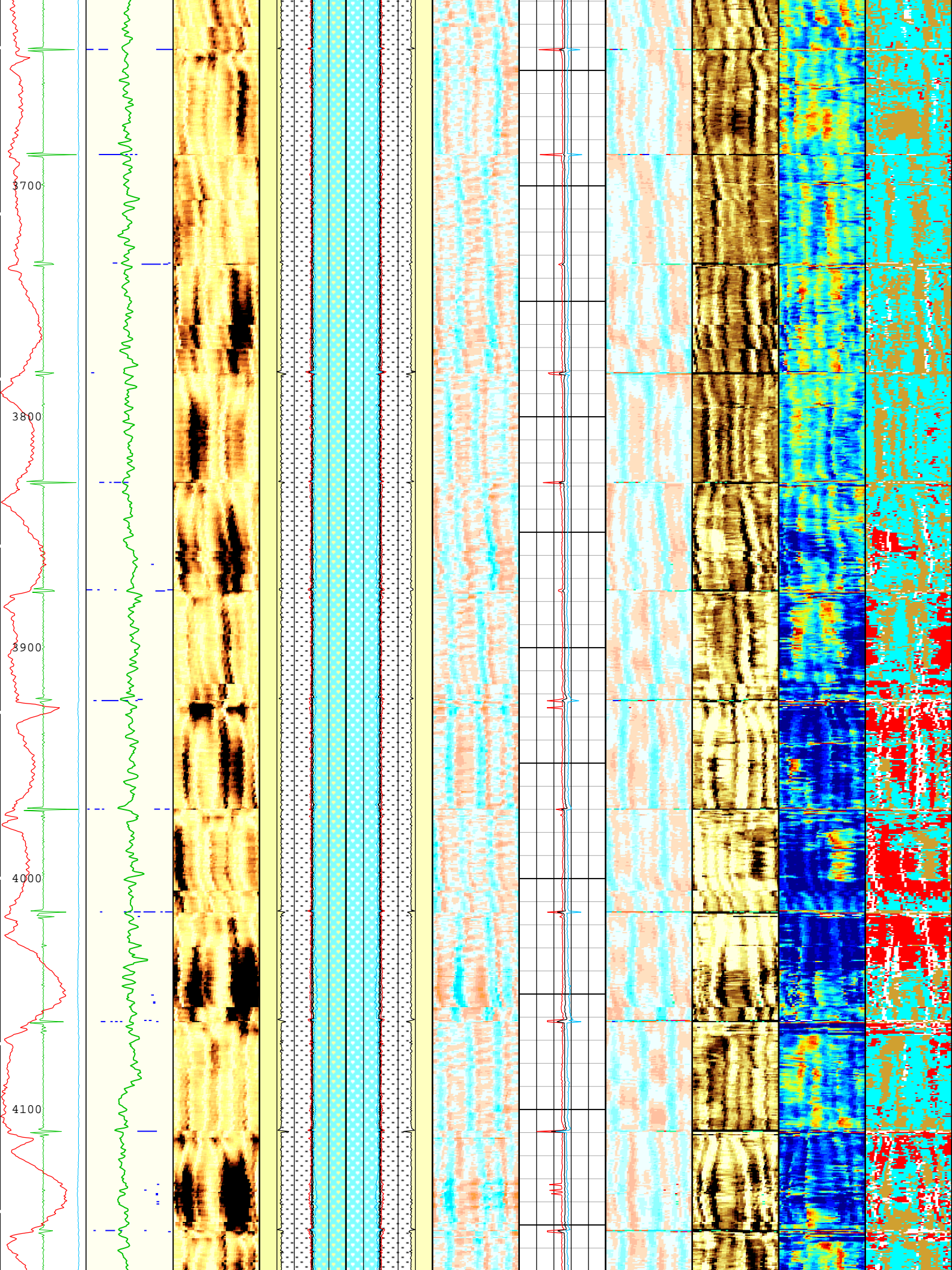


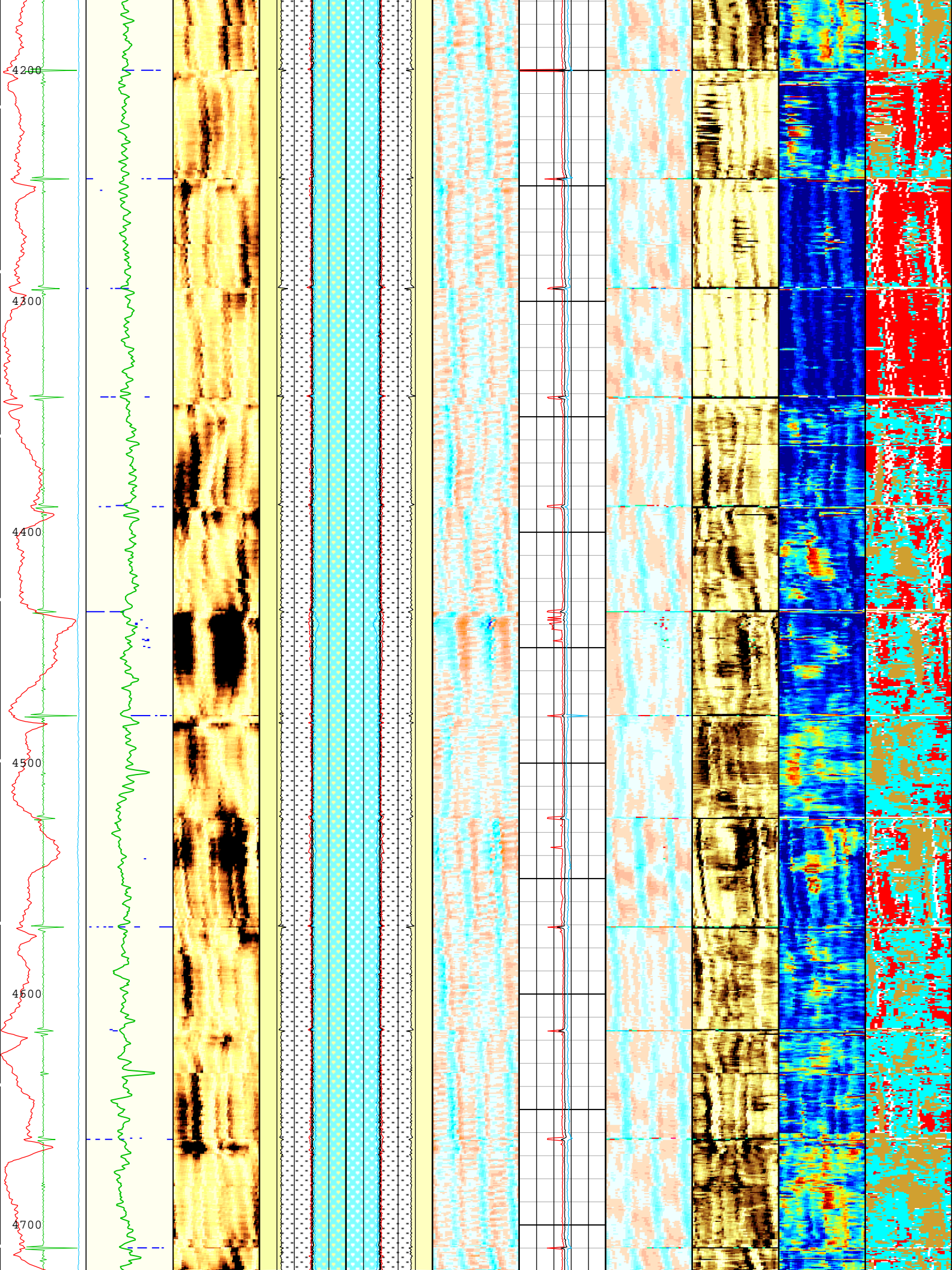


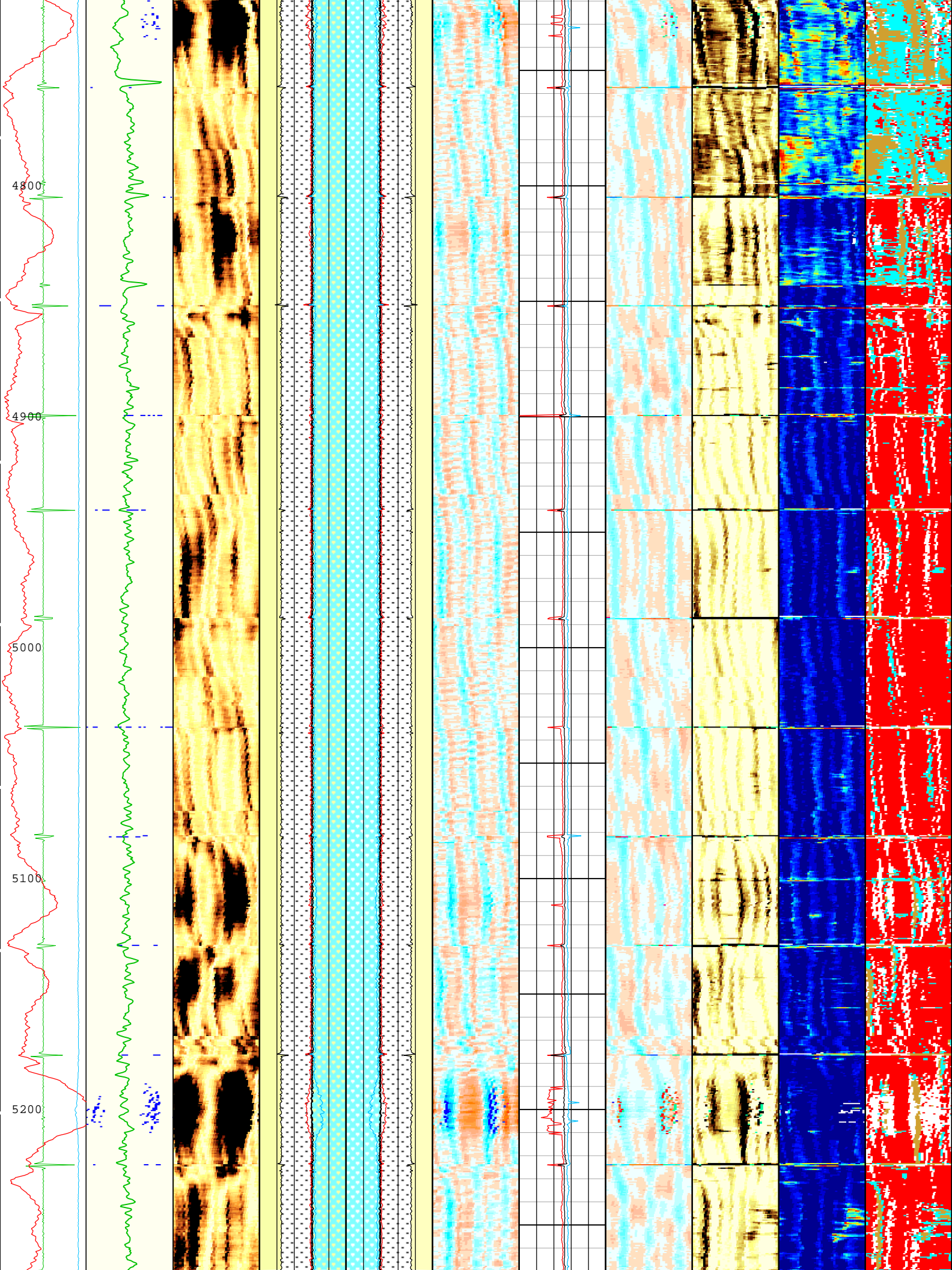


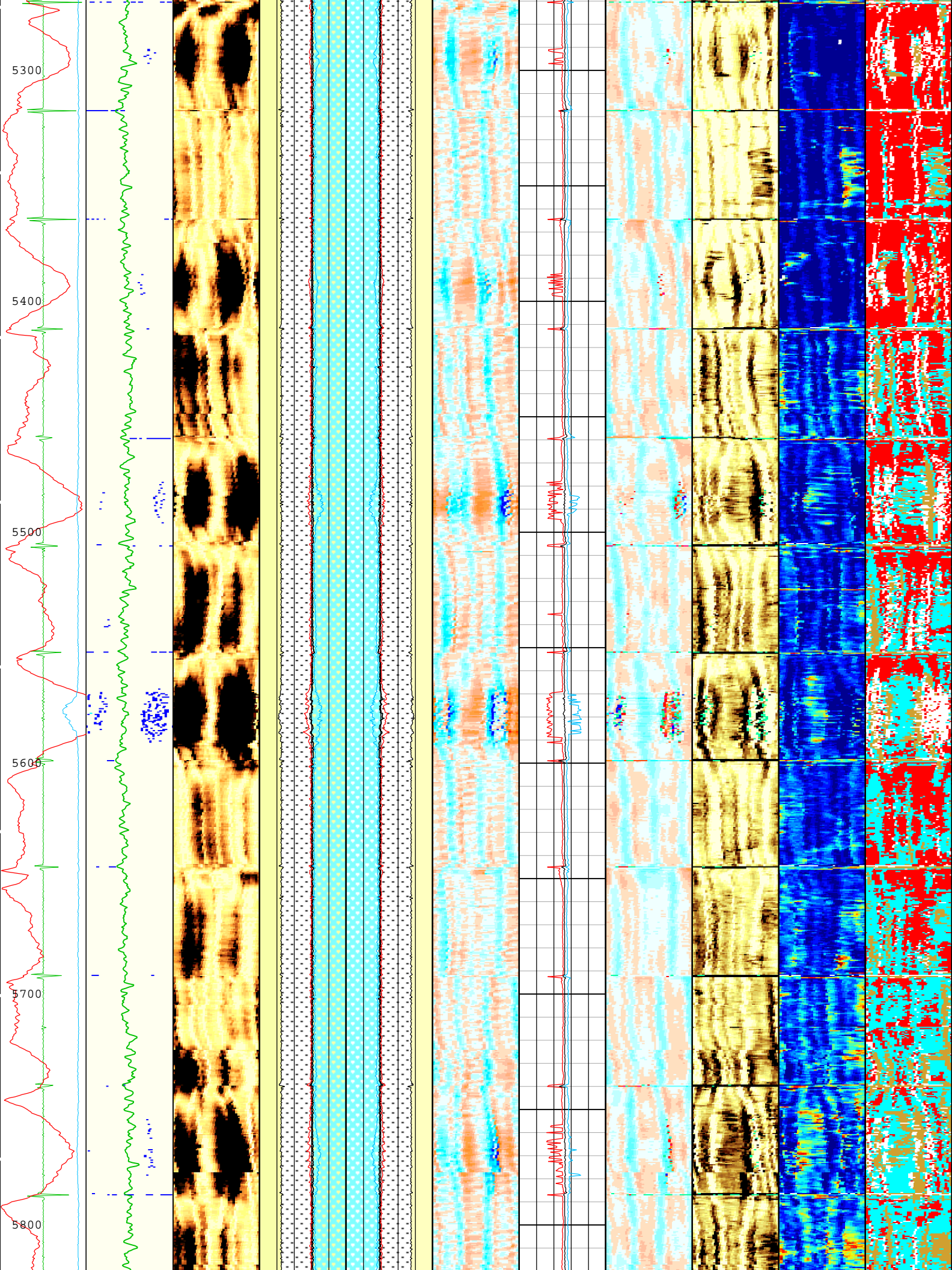


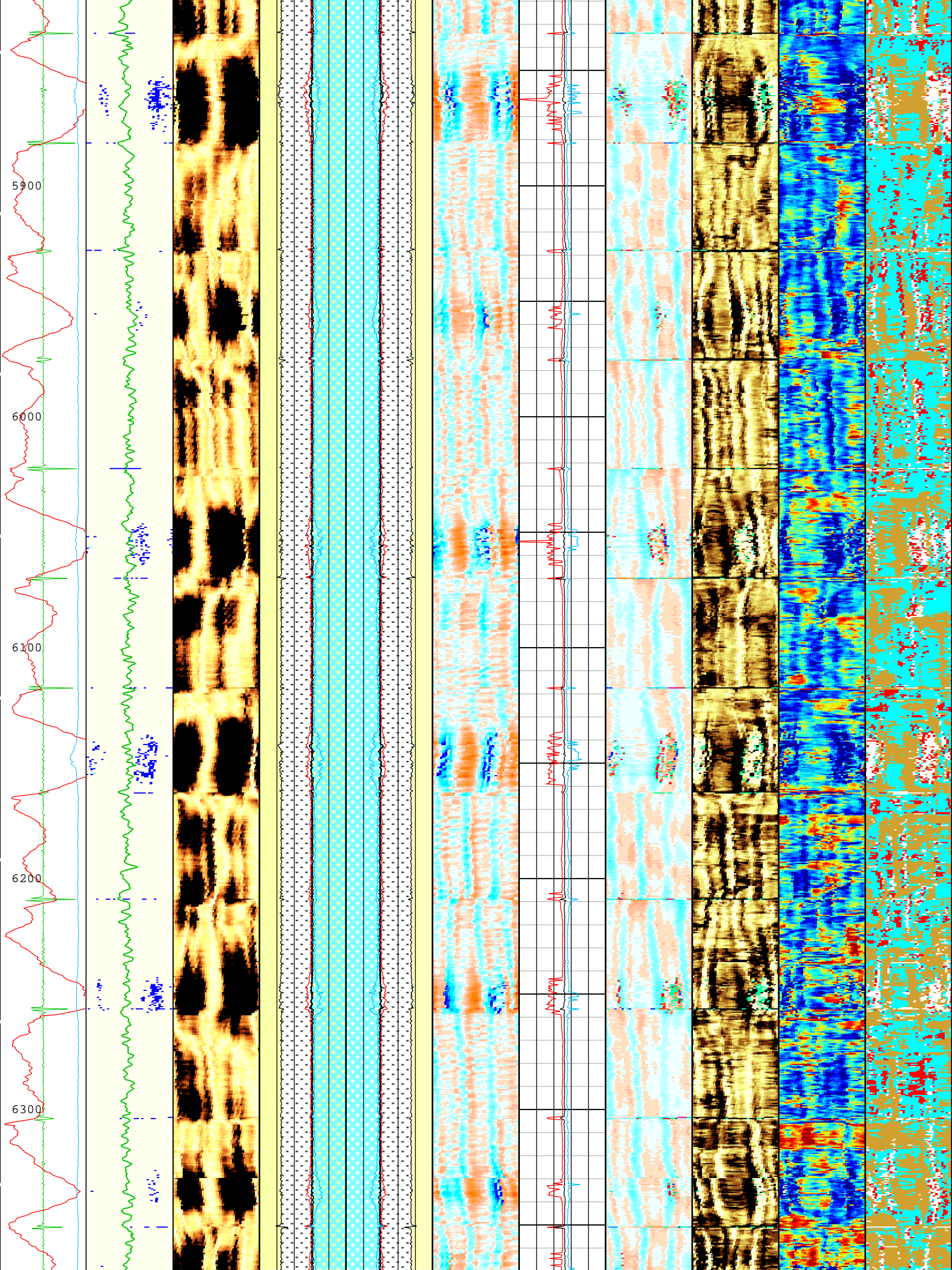


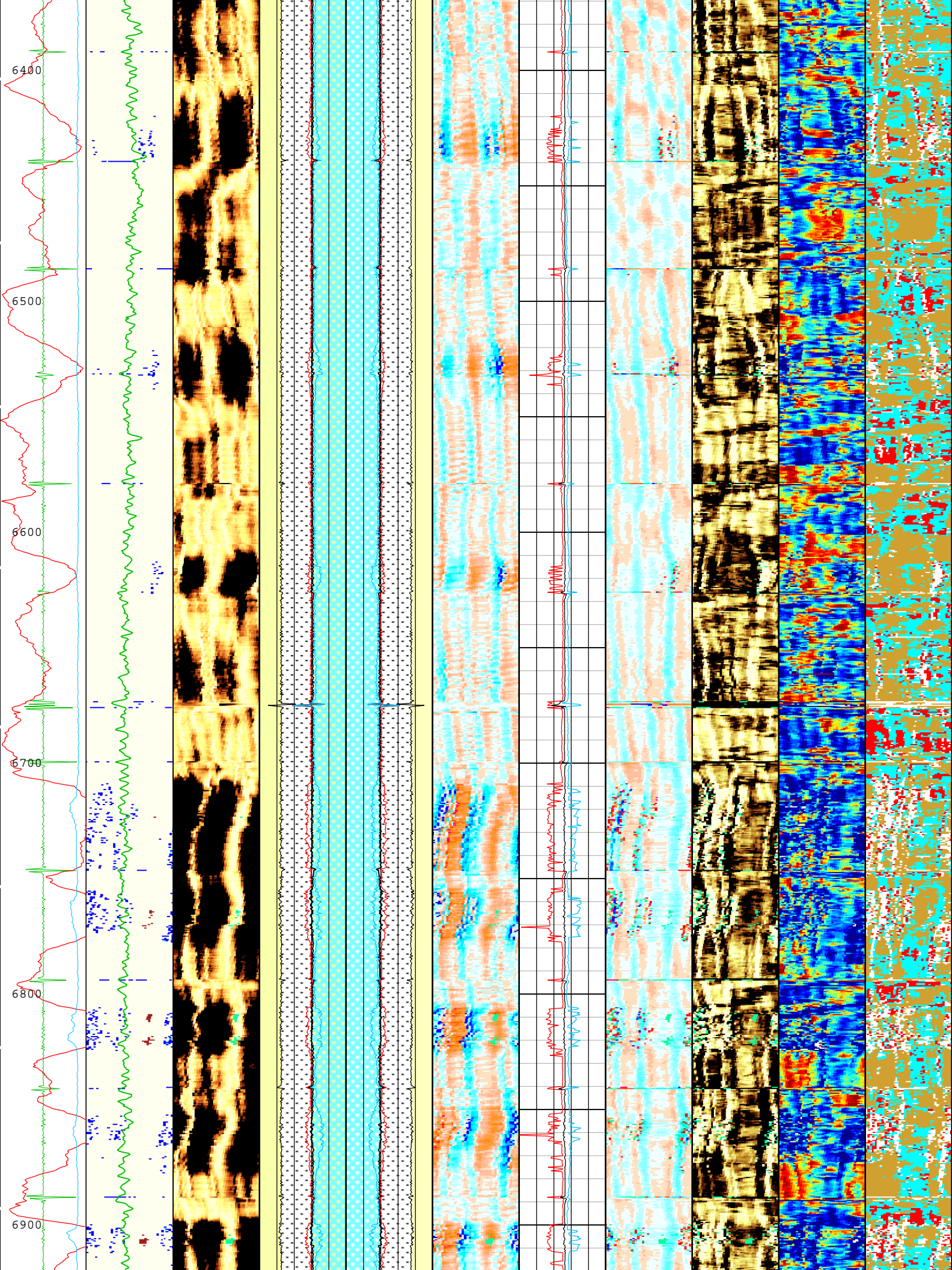


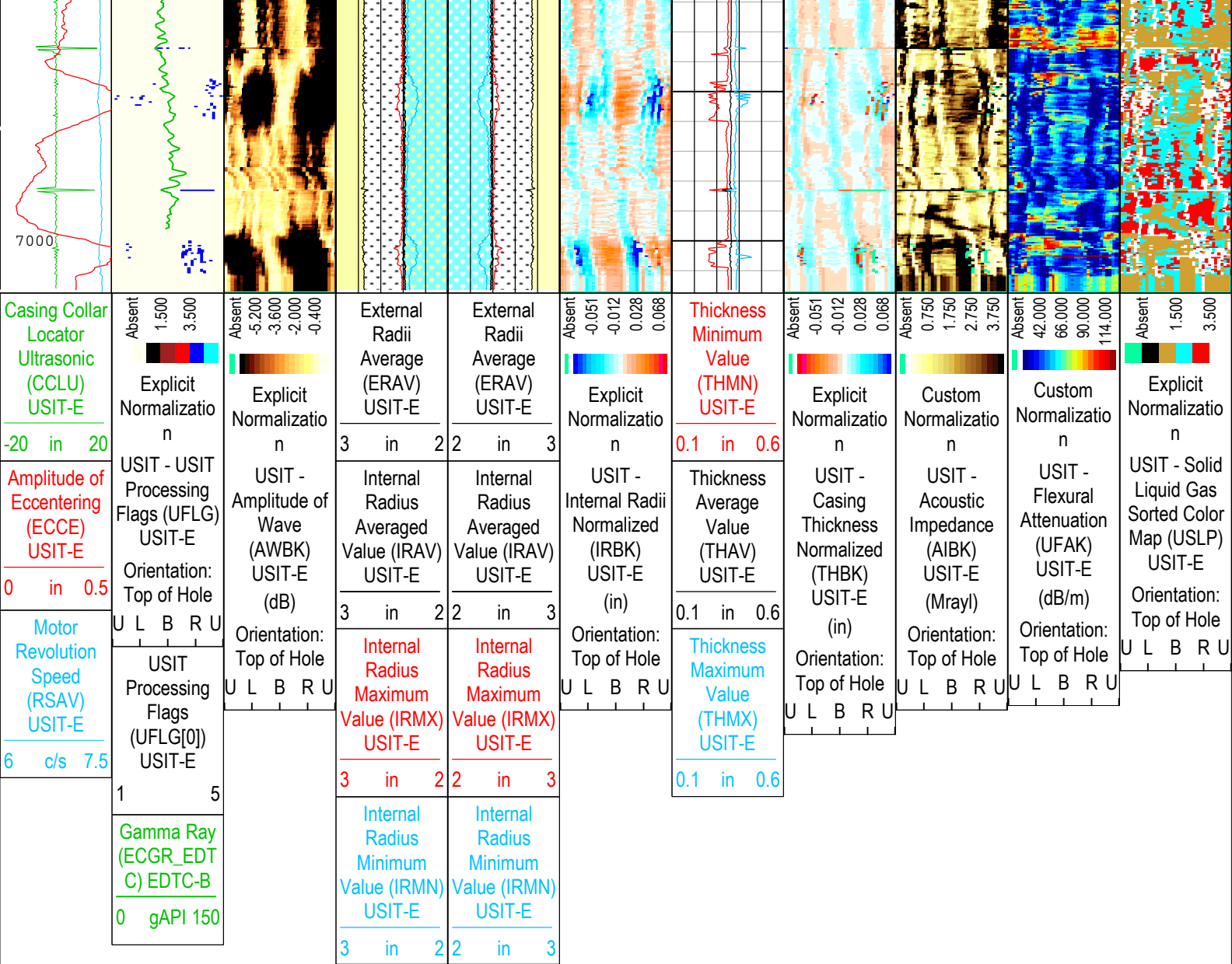












TIME_1900 - Time Marked every 60.00 (s)

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 Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 19-Sep-2018 22:56:57

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	14840	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal

DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.4	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-30.8	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Inversion Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.19	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.18	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.72	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-35.5	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.76	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	60	2186	
BS	8.5	2186	7017.5	
All depth are actual.				

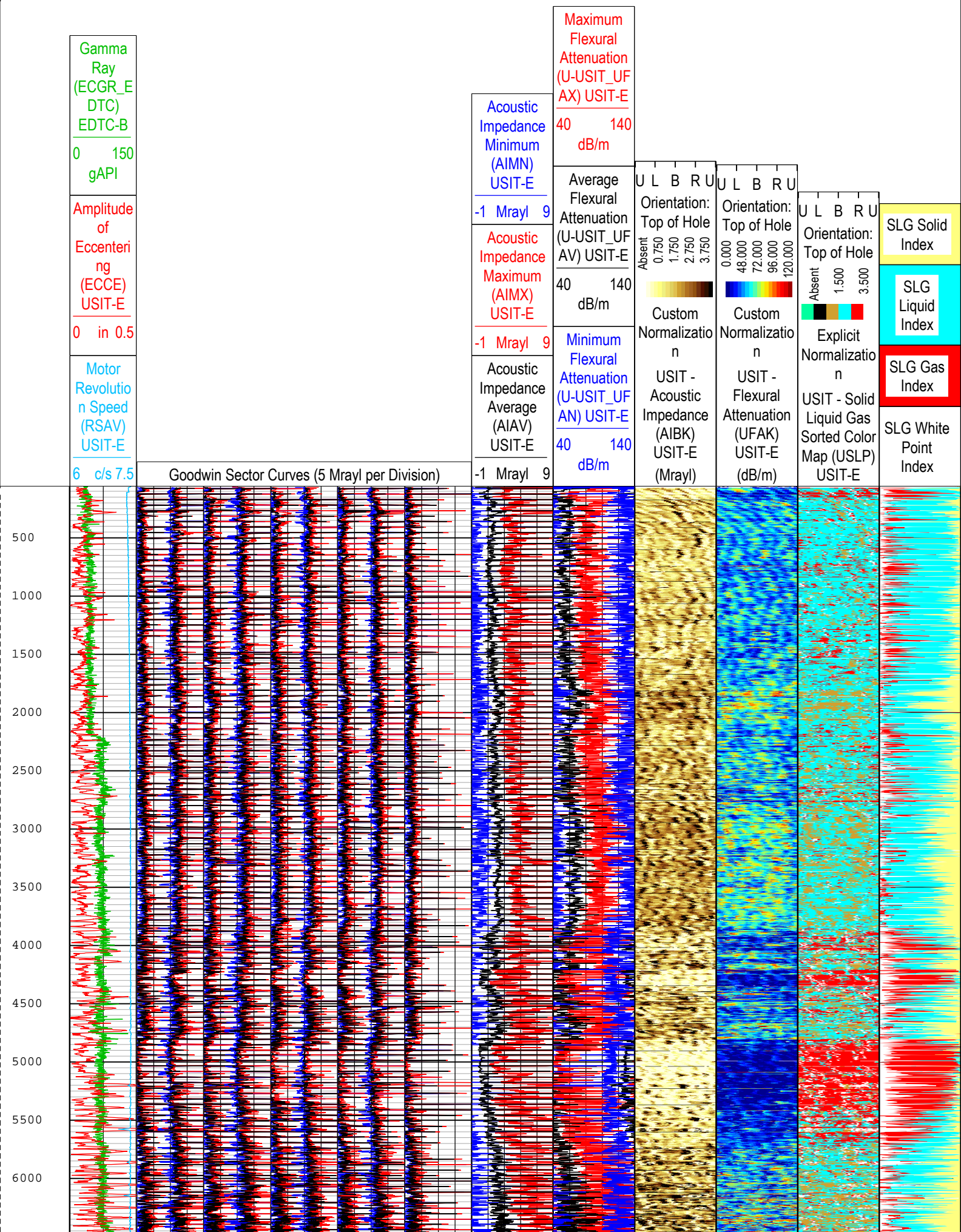
Tool Control Parameters

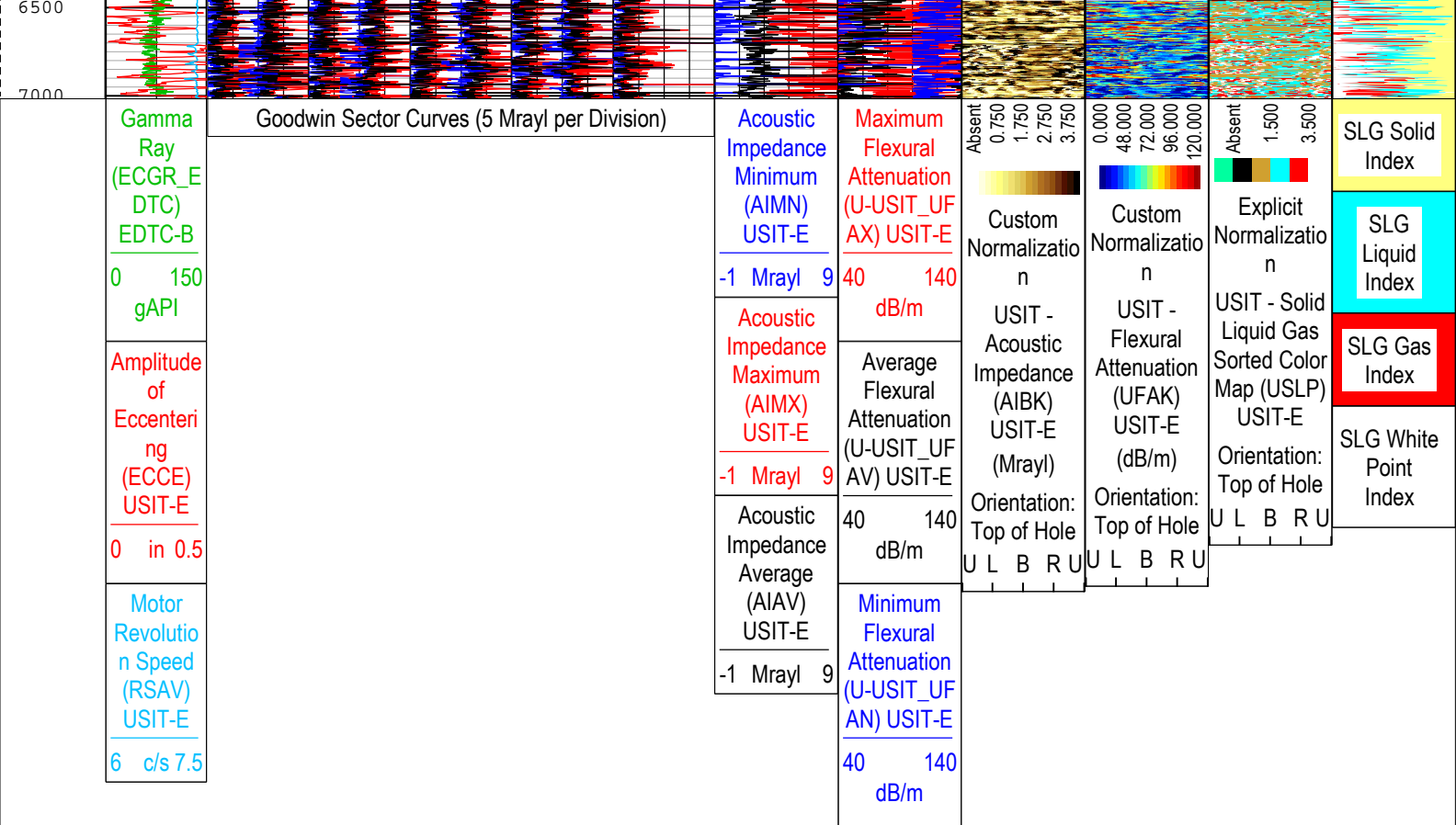
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic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

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	60	19-Sep-2018 12:30:39	19-Sep-2018 12:44:04	7018.14	6116.65

EMXV	70		19-Sep-2018 12:44:04	19-Sep-2018 14:13:56	6116.65	57.25			
U-USIT_UFWB	137		19-Sep-2018 12:30:39	19-Sep-2018 12:31:20	7018.14	7003.72			
U-USIT_UFWB	124.26		19-Sep-2018 12:31:20	19-Sep-2018 14:13:56	7003.72	57.25			
U-USIT_UFWE	177		19-Sep-2018 12:30:39	19-Sep-2018 12:31:45	7018.14	6978.72			
U-USIT_UFWE	176.5		19-Sep-2018 12:31:45	19-Sep-2018 12:35:35	6978.72	6712.79			
U-USIT_UFWE	184.81		19-Sep-2018 12:35:35	19-Sep-2018 12:36:05	6712.79	6677.45			
U-USIT_UFWE	172.94		19-Sep-2018 12:36:05	19-Sep-2018 13:14:45	6677.45	3945.33			
U-USIT_UFWE	178.88		19-Sep-2018 13:14:45	19-Sep-2018 13:24:05	3945.33	3276.18			
U-USIT_UFWE	175.32		19-Sep-2018 13:24:05	19-Sep-2018 13:24:08	3276.18	3272.27			
U-USIT_UFWE	169.38		19-Sep-2018 13:24:08	19-Sep-2018 13:51:53	3272.27	1315.34			
U-USIT_UFWE	176.5		19-Sep-2018 13:51:53	19-Sep-2018 14:02:04	1315.34	607.68			
U-USIT_UFWE	184.81		19-Sep-2018 14:02:04	19-Sep-2018 14:02:08	607.68	602.53			
U-USIT_UFWE	182.44		19-Sep-2018 14:02:08	19-Sep-2018 14:02:16	602.53	593.84			
U-USIT_UFWE	181.25		19-Sep-2018 14:02:16	19-Sep-2018 14:02:19	593.84	590.31			
U-USIT_UFWE	176.5		19-Sep-2018 14:02:19	19-Sep-2018 14:13:56	590.31	57.25			
U-USIT_UNWB	106		19-Sep-2018 12:30:39	19-Sep-2018 12:31:18	7018.14	7006.17			
U-USIT_UNWB	95.77		19-Sep-2018 12:31:18	19-Sep-2018 14:13:56	7006.17	57.25			
U-USIT_UNWE	146		19-Sep-2018 12:30:39	19-Sep-2018 12:36:08	7018.14	6674.31			
U-USIT_UNWE	140.88		19-Sep-2018 12:36:08	19-Sep-2018 13:24:11	6674.31	3268.28			
U-USIT_UNWE	131.39		19-Sep-2018 13:24:11	19-Sep-2018 13:50:01	3268.28	1446.83			
U-USIT_UNWE	132.57		19-Sep-2018 13:50:01	19-Sep-2018 13:50:11	1446.83	1434.45			
U-USIT_UNWE	134.95		19-Sep-2018 13:50:11	19-Sep-2018 13:51:56	1434.45	1310.98			
U-USIT_UNWE	138.51		19-Sep-2018 13:51:56	19-Sep-2018 13:52:39	1310.98	1261.59			
U-USIT_UNWE	140.88		19-Sep-2018 13:52:39	19-Sep-2018 13:52:46	1261.59	1253.25			
U-USIT_UNWE	143.26		19-Sep-2018 13:52:46	19-Sep-2018 14:13:56	1253.25	57.25			
WINB	31.88		19-Sep-2018 12:30:39	19-Sep-2018 12:39:33	7018.14	6434.87			
WINB	30.7		19-Sep-2018 12:39:33	19-Sep-2018 14:13:56	6434.87	57.25			
WINE	71.88		19-Sep-2018 12:30:39	19-Sep-2018 12:35:24	7018.14	6725.62			
WINE	76.32		19-Sep-2018 12:35:24	19-Sep-2018 12:35:31	6725.62	6717.32			
WINE	78.94		19-Sep-2018 12:35:31	19-Sep-2018 12:36:18	6717.32	6663.05			
WINE	76.37		19-Sep-2018 12:36:18	19-Sep-2018 12:36:32	6663.05	6646.96			
WINE	74.78		19-Sep-2018 12:36:32	19-Sep-2018 12:39:28	6646.96	6440.86			
WINE	72.85		19-Sep-2018 12:39:28	19-Sep-2018 14:13:56	6440.86	57.25			
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[13]:Up	Up	57.25 ft	7018.14 ft	19-Sep-2018 12:30:39 PM	19-Sep-2018 2:13:56 PM	ON	7.39 ft	Yes
All depths are referenced to toolstring zero									
Log	Company:Crestone Peak Resources Operating LLC						Well:Davis 1D-9H-G266		
							ONE: Log[13]:Up:S013		
Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date:									

TIME_1900 - Time Marked every 60.00 (s)










TIME_1900 - Time Marked every 60.00 (s)

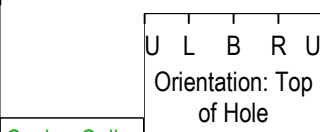
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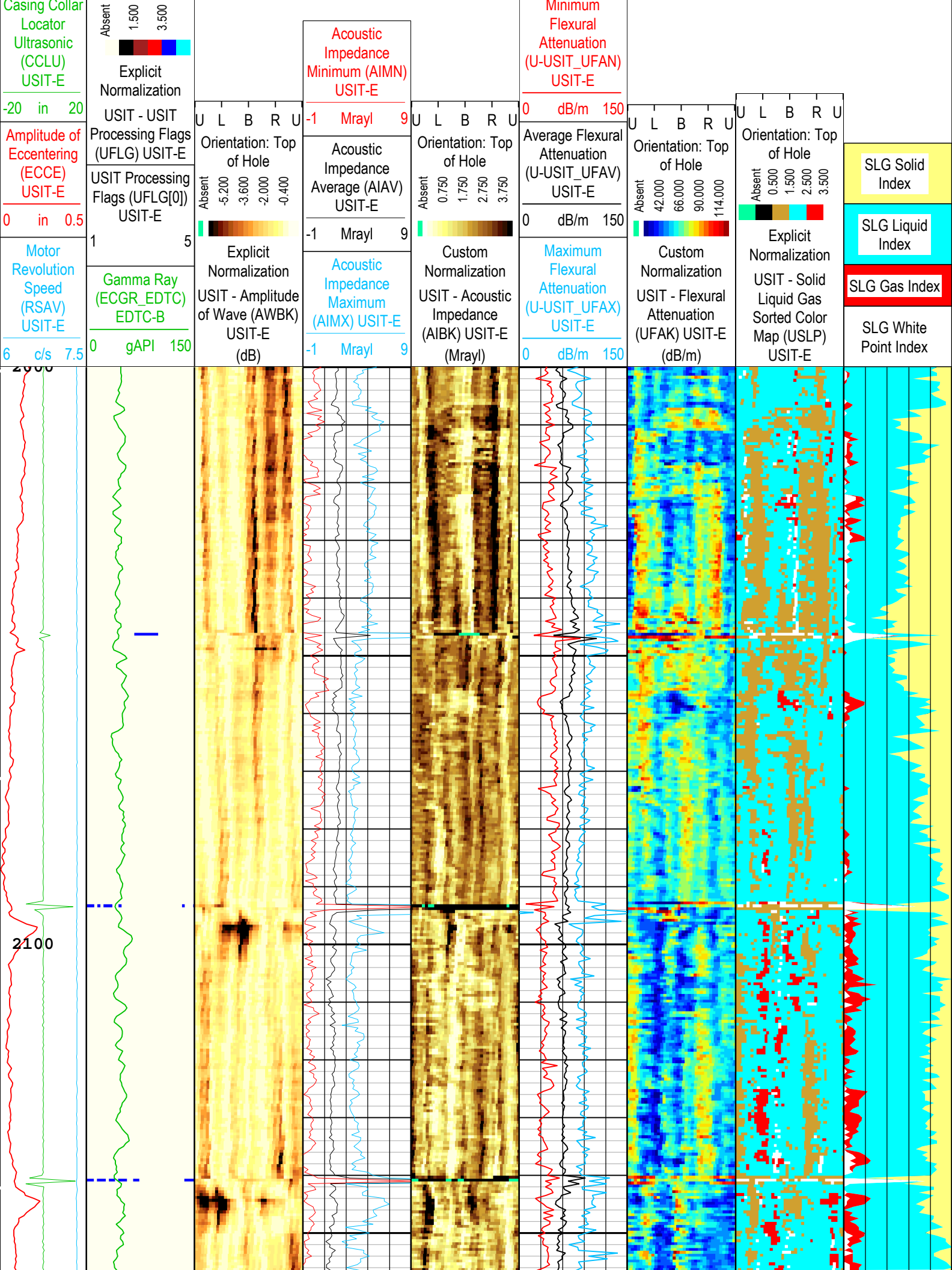
ONE									
IBC SLG									
Software Version									
Acquisition System						Version			
Maxwell 2018 SP2						8.2.104493.3100			
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[9]:Up	Up	1986.68 ft	2315.40 ft	19-Sep-2018 11:41:03 AM	19-Sep-2018 11:46:15 AM	ON	1.38 ft	Yes
All depths are referenced to toolstring zero									
Log	Company:Crestone Peak Resources Operating LLC						Well:Davis 1D-9H-G266		
ONE: Log[9]:Up:S013									
Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Sep-2018 22:57:57									

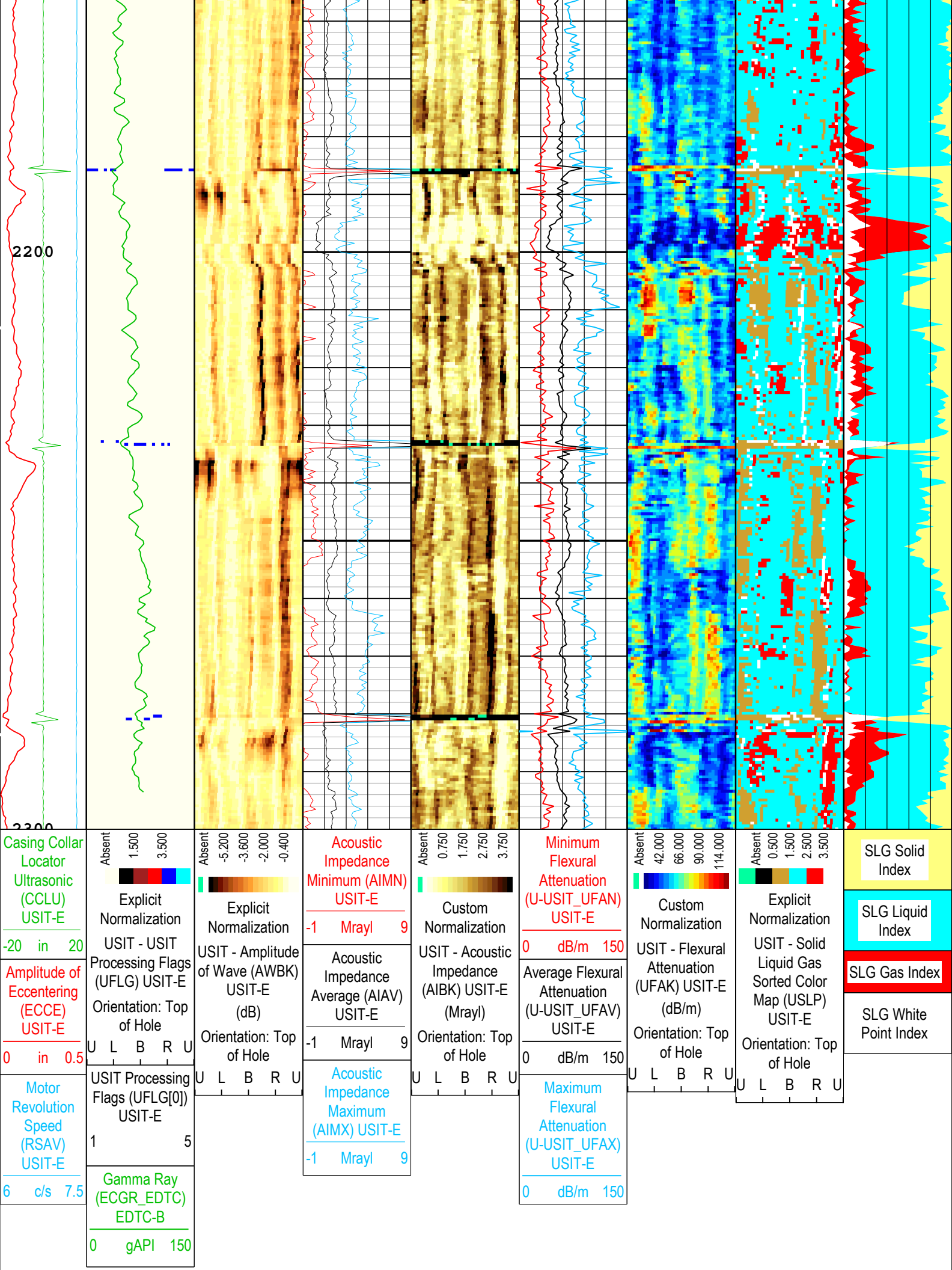
USIT Processing Flags (UFLG[0]) USIT-E

- 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)







TIME_1900 - Time Marked every 60.00 (s)				
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		
Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Sep-2018 22:57:57				

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	14840	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.4	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-30.8	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Inversion Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.19	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.18	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
RCOD	Reference Calibrator Outer Diameter	USIT-E	4.5	in
RCSO	Reference Calibrator Standoff	USIT-E	0.842	in
RCTH	Reference Calibrator Thickness	USIT-E	0.216	in
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.72	Mrayl
U-USIT_HFAS	Drilling Fluid Acoustic Impedance	USIT-E	25.5	lbm/ft ³

U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-35.5	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	1.76	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters				
Parameter	Value	Start (ft)	Stop (ft)	
BS	13.5	2000	2186	
BS	8.5	2186	2300	
All depth are actual.				

Tool Control Parameters

ONE: Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOT(DOS)	Distance between Opposite Transducer Faces	USIT-E	1.756	in
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
MOTOR_PROTECT	Motor Protection	USIT-E	On	
UACLV_PERM	Ultrasonic ACLV Permanent	USIT-E	Yes	
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	137	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	177	us
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	106	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	142.07	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

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	60	19-Sep-2018 11:41:03	19-Sep-2018 11:45:49	2315.4	2013.6
EMXV	70	19-Sep-2018 11:45:49	19-Sep-2018 11:45:52	2013.6	2009.28
EMXV	65	19-Sep-2018 11:45:52	19-Sep-2018 11:46:15	2009.28	1986.68
All depth are at tool zero.					

IBC SLG Composite

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[9]:Up	Up	1986.68 ft	2315.40 ft	19-Sep-2018 11:41:03 AM	19-Sep-2018 11:46:15 AM	ON	1.38 ft	Yes

All depths are referenced to toolstring zero

Log

Company: Crestone Peak Resources Operating LLC

Well: Davis 1D-9H-G266






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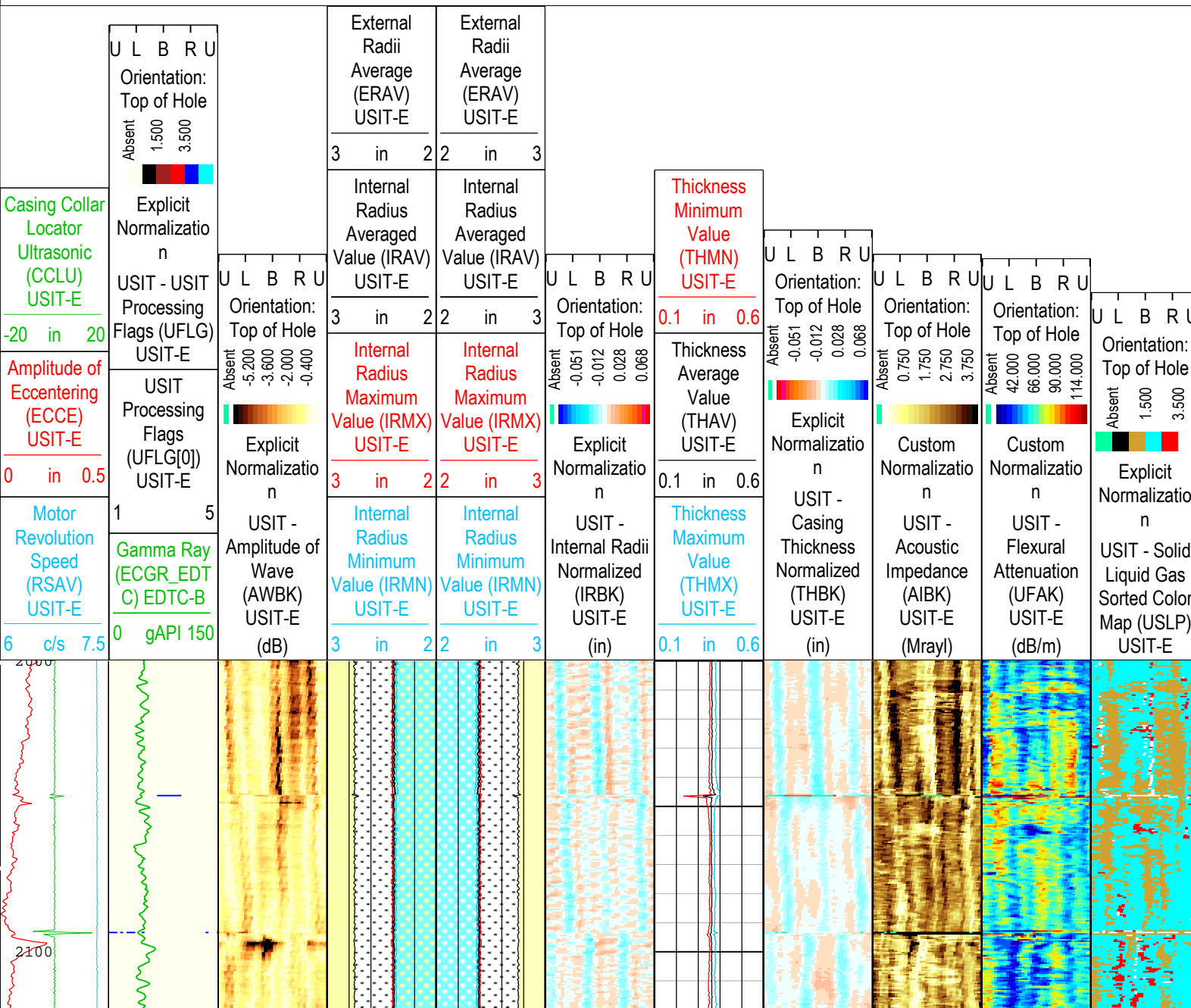
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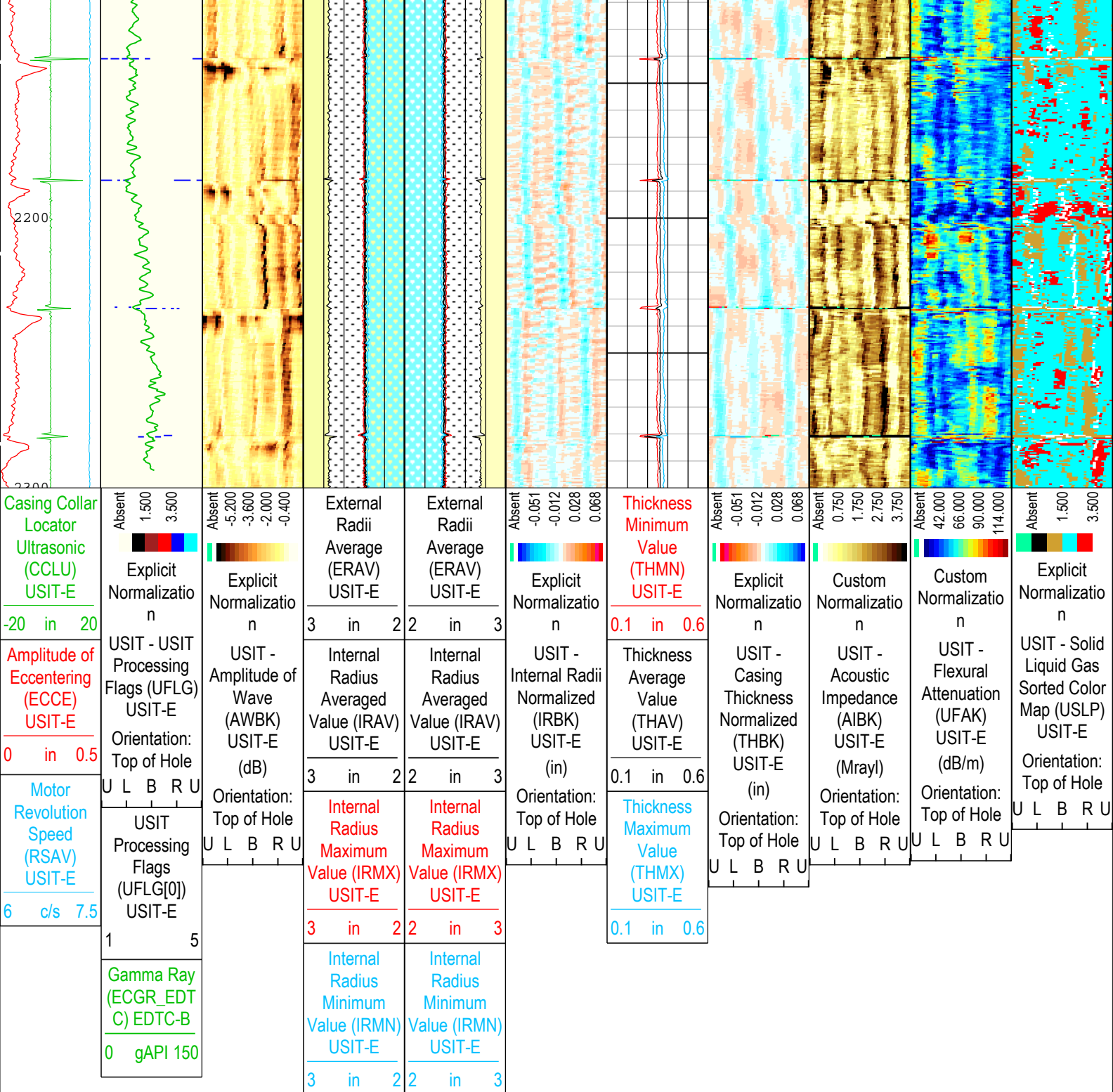
Creation Date: 19-Sep-2018 22:58:18

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: 19-Sep-2018 22:58:18

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
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	14840	ft
CDEN	Cement Density	USIT-E	12.5	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Light Cement	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.4	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-30.8	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Inversion Norm.	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.19	
MUD_N_INV	IBC Inversion Mud Normalization Factor	USIT-E	1.18	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.72	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-35.5	dB/m
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.76	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	13.5	2000	2186
BS	8.5	2186	2300

All depth are actual.

Tool Control Parameters	
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ONE: Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
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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	142.07	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

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	60	19-Sep-2018 11:41:03	19-Sep-2018 11:45:49	2315.4	2013.6
EMXV	70	19-Sep-2018 11:45:49	19-Sep-2018 11:45:52	2013.6	2009.28
EMXV	65	19-Sep-2018 11:45:52	19-Sep-2018 11:46:15	2009.28	1986.68

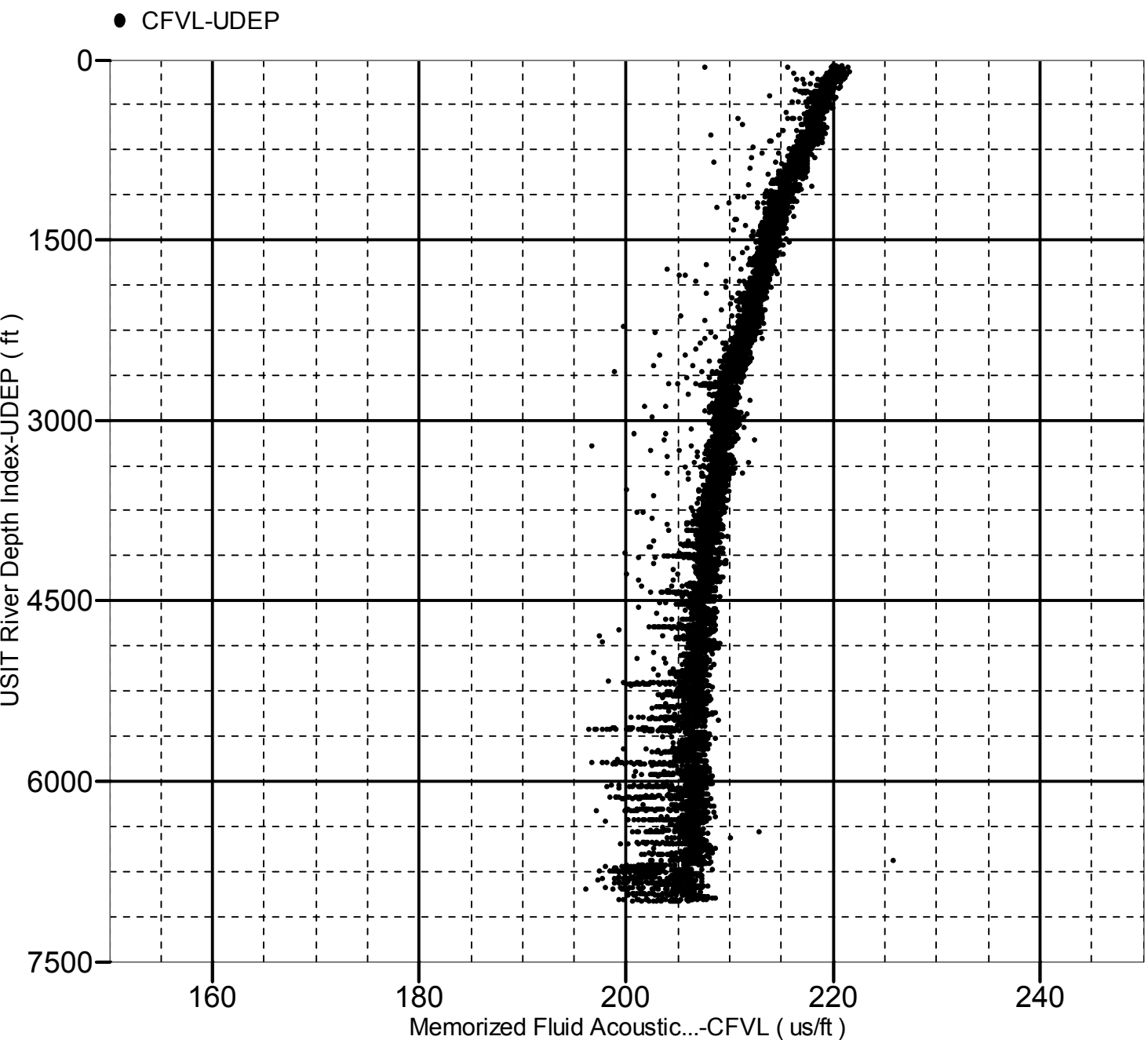
All depth are at tool zero.

XYZ	Company:Crestone Peak Resources Operating LLC Well:Davis 1D-9H-G266 ONE: Log[13]:Up:S013
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Fluid Acoustic Slowness vs Depth

2D Cross Plot

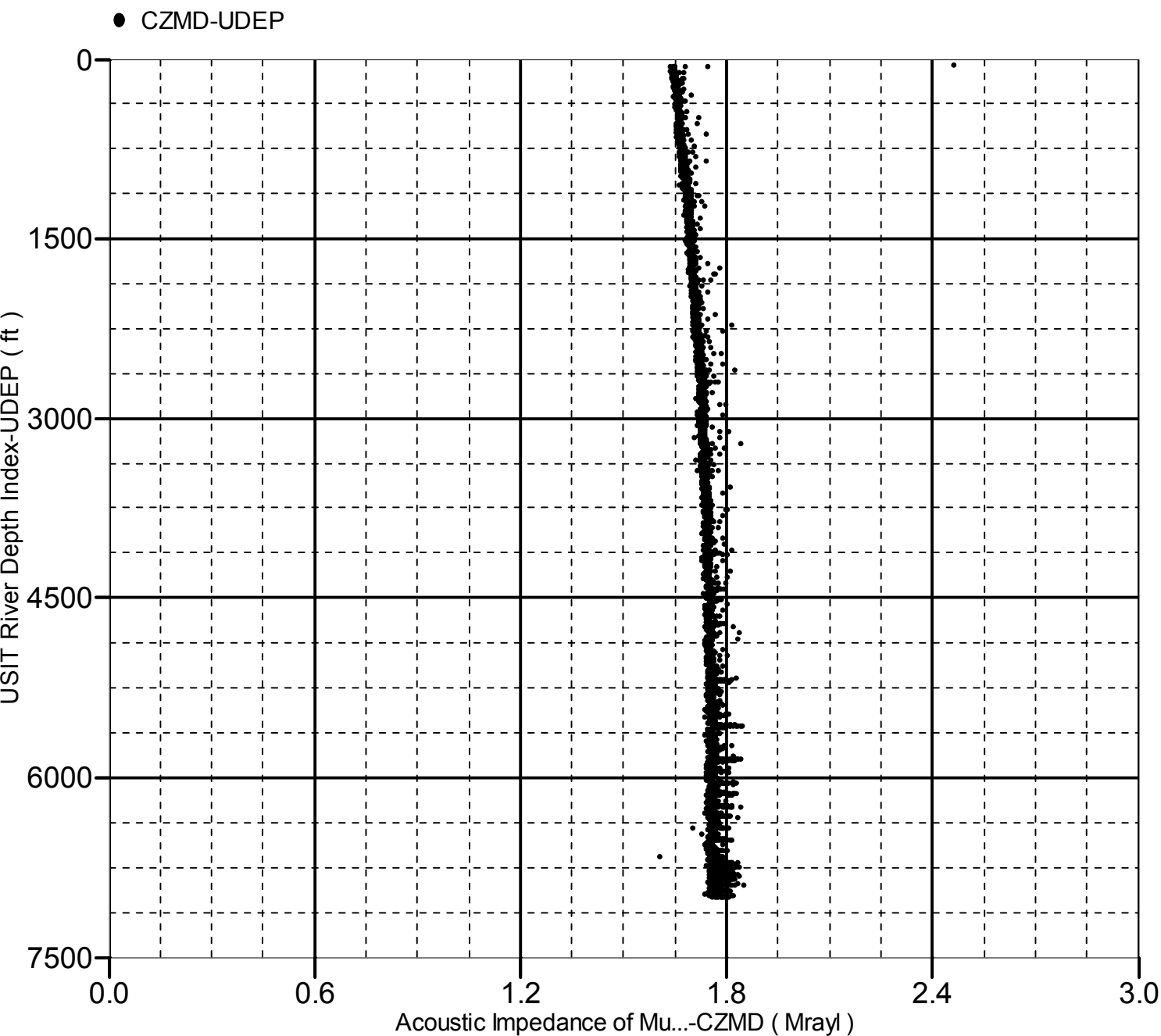
Index Range: From 7017.50 to 56.50 ft



Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 7017.50 to 56.50 ft



Company: Crestone Peak Resources Operating LLC

Schlumberger

Well: Davis 1D-9H-G266

Field: Wattenberg

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