



Company: Occidental Petroleum Corporation

Well: Burchfield State 23-16

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner

Cement Evaluation

Gamma Ray - CCL Log

County: Weld  
Field: Wattenberg  
Location: 1944FSL 2052 FEL  
Well: Burchfield State 23-16  
Company: Occidental Petroleum Corporation

Location:	1944FSL 2052 FEL	Elev.:	K.B. 4799.00 ft
	Lat/Long: 40.223880 / -104.893530		G.L. 4784.00 ft
	ec: 16, Town: 3N, Range: 67W		D.F. 4798.00 ft
Permanent Datum:		Ground Level	Elev.: 4784.00 f
Log Measured From:		Kelly Bushing	15.00 ft
Drilling Measured From:		Kelly Bushing	above Perm.Datum
API Serial No.	05-123-31006	Section:	16
		Township:	3N
		Range:	67W
Logging Date	31-Oct-2023		

Run Number	R1D1
Depth Driller	7755.00 ft
Schlumberger Depth	
Bottom Log Interval	TD Not Tagged
Top Log Interval	6300.00 ft
Casing Fluid Type	50.00 ft
Salinity	Water
Density	8.4 lbm/gal
Fluid Level	8.00 ft
BIT/CASING/TUBING STRING	
Bit Size	7.88 in
From	675.00 ft
To	7755.00 ft
Casing/Tubing Size	4.5 in
Weight	11.7 lbm/ft
Grade	N/A
From	0.00 ft
To	7755.00 ft
Max Recorded Temperatures	199.15 degF
Logger on Bottom	31-Oct-2023
Unit Number	9115
Recorded By	M. Rhenman / C. Jordan
Witnessed By	Shane Hart

## 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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10. R1D1

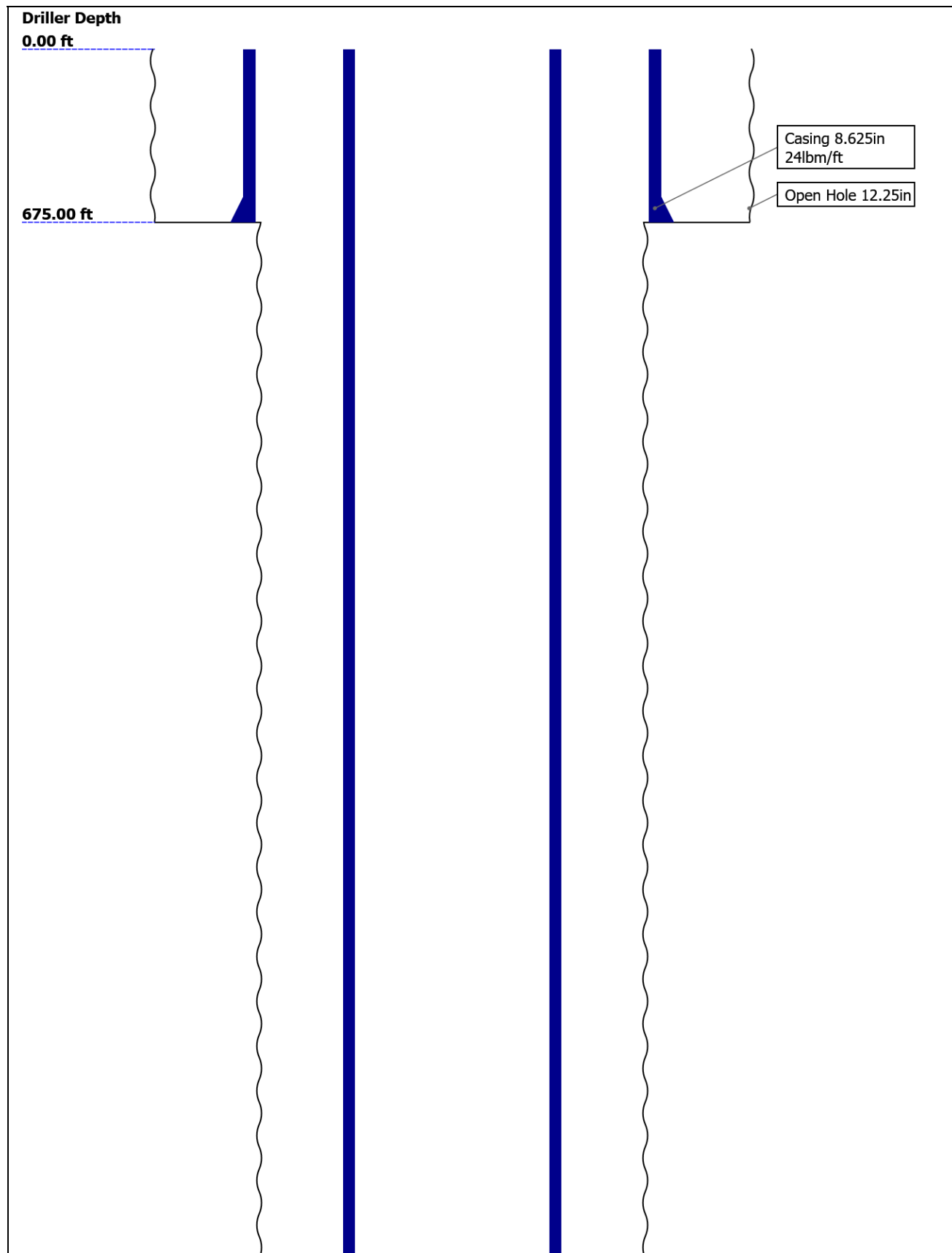
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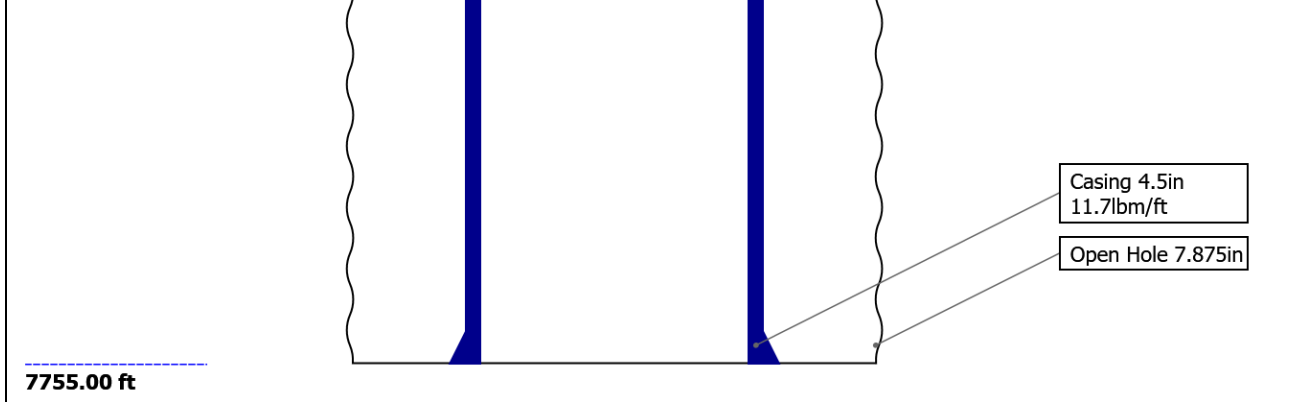
10.2 Software Version

10.3 Composite Summary

10.4 Log ( IBC Goodwin )

## Well Sketch



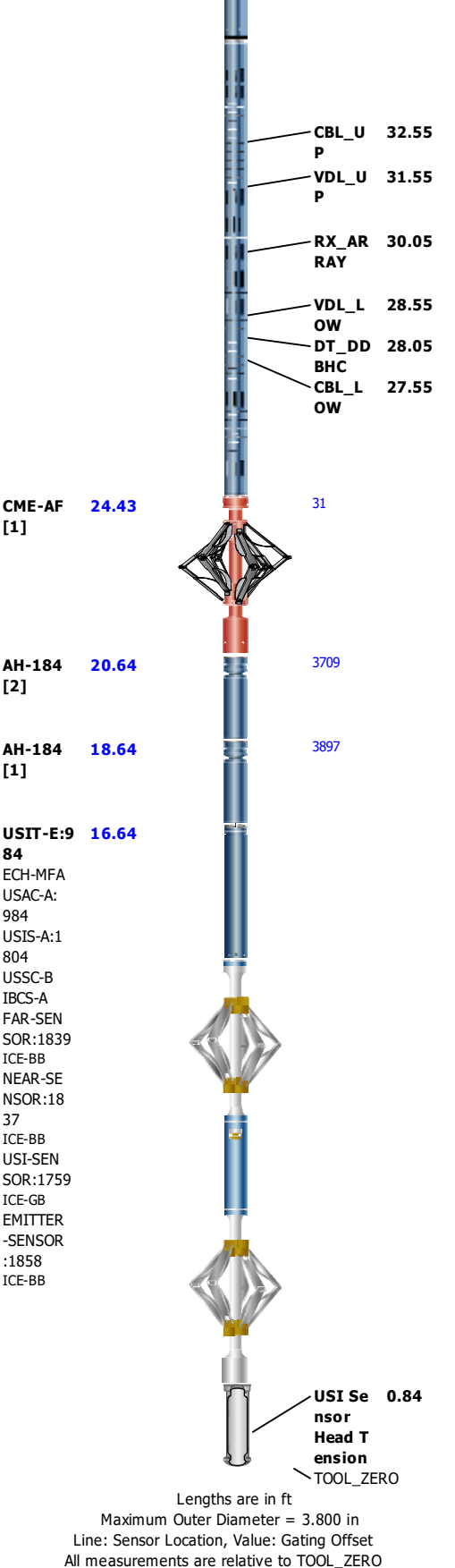


### Borehole Size/Casing/Tubing Record

Bit					
Bit Size ( in )	12.25	7.875			
Top Driller ( ft )	0	675			
Top Logger ( ft )	0	675			
Bottom Driller ( ft )	675	7755			
Bottom Logger ( ft )	675	7755			
Casing					
Size ( in )	8.625	4.5			
Weight ( lbm/ft )	24	11.7			
Inner Diameter ( in )	8.097	3.996			
Grade	N/A	N/A			
Top Driller ( ft )	0	0			
Top Logger ( ft )	0	0			
Bottom Driller ( ft )	675	7755			
Bottom Logger ( ft )	675	7755			

### Remarks and Equipment Summary

R1D1: Toolstring	R1D1: Remarks
<p><b>Equip name &amp; length</b></p> <p><b>LEH-QT 52.87</b> LEH-QT</p> <p><b>EDTC-B: 49.38</b> <b>8007</b> EDTH-B: 8007 EDTG-A EDTC-B: 8007</p> <p><b>CME-AF 42.88</b> [2]</p> <p><b>ASLT-B: 39.08</b> <b>8073</b> ASLT-BB :8073</p> <p>CTEM 45.88 ACCZ 0.00 HV 0.00 Gamma Ray 44.01 TelStar 42.88</p>	<p>Tool was run as per tool sketch</p>
	<p>All logging intervals as per client request</p>
	<p>Logged with 500 psi pressure as per client request.</p>
	<p>Log correlated to Radial Cement Bond Log dated 13-SEP-2010</p>
	<p>Cycle skipping due to good cement bond observed.</p>



## USIT - Fluid Properties Measurement

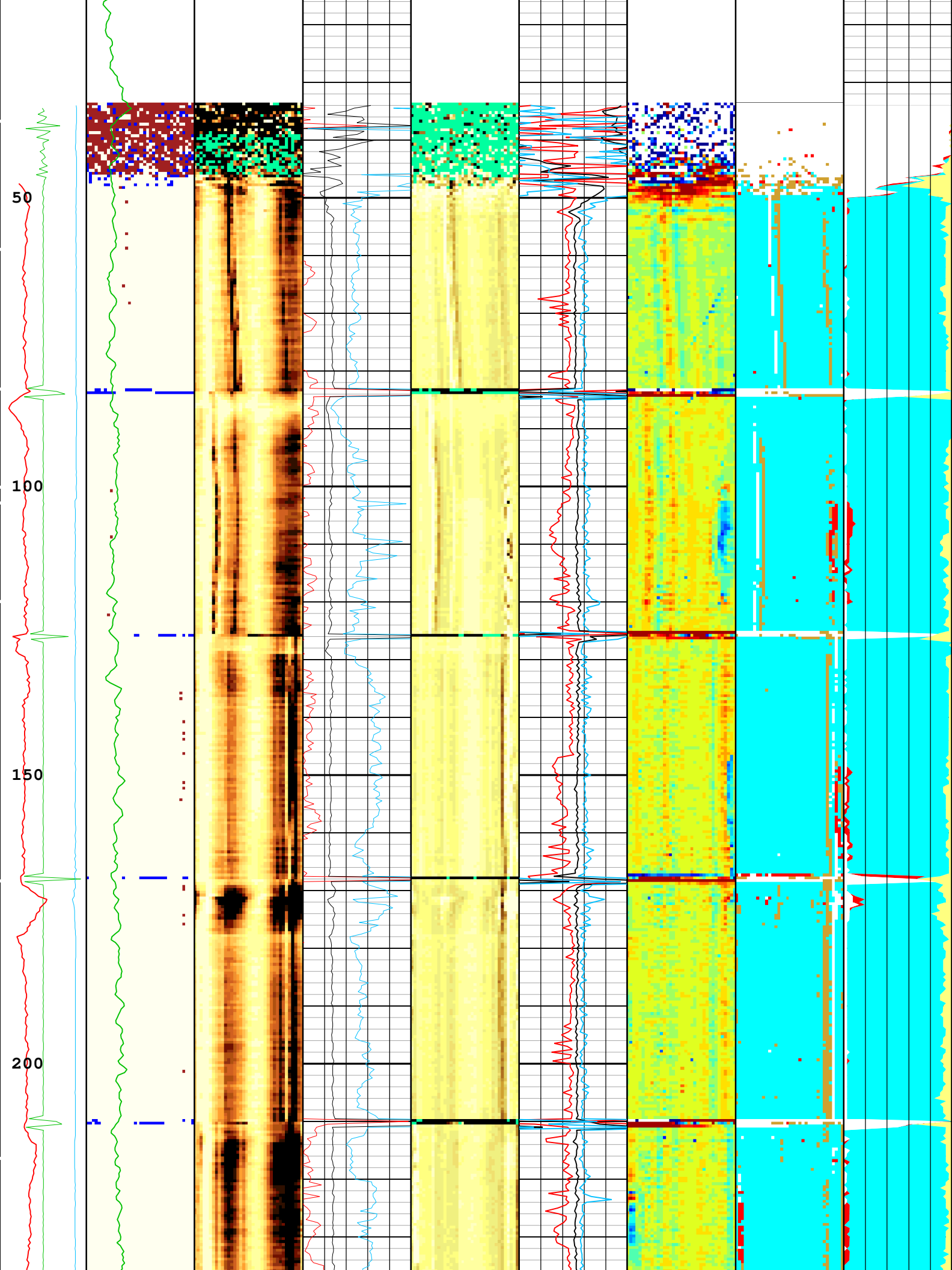
Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 2	Log[4]:Up	6314.01	34.29

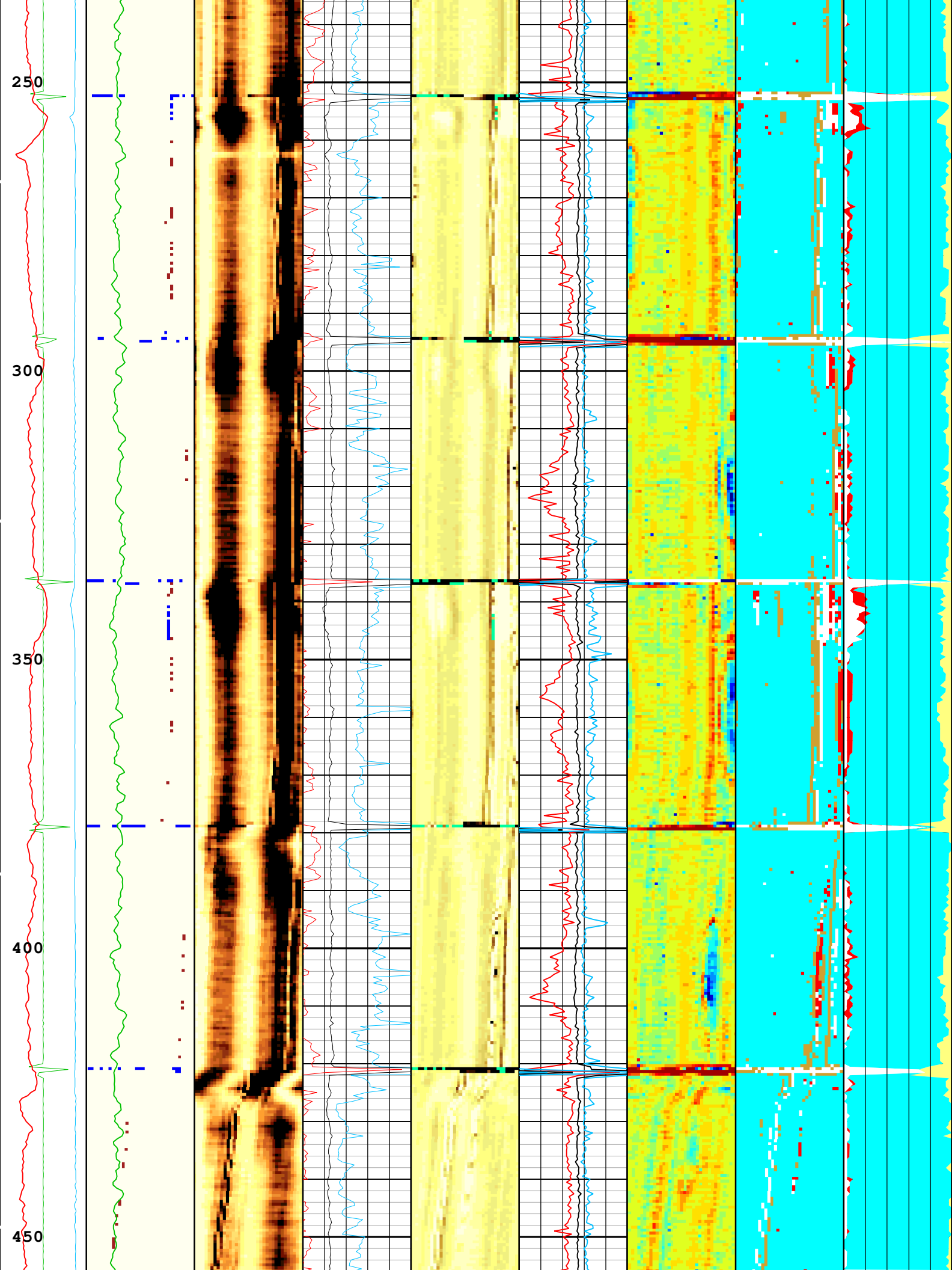
Fluid Velocity = "Automatic".  
CFVL equals DFSL channel

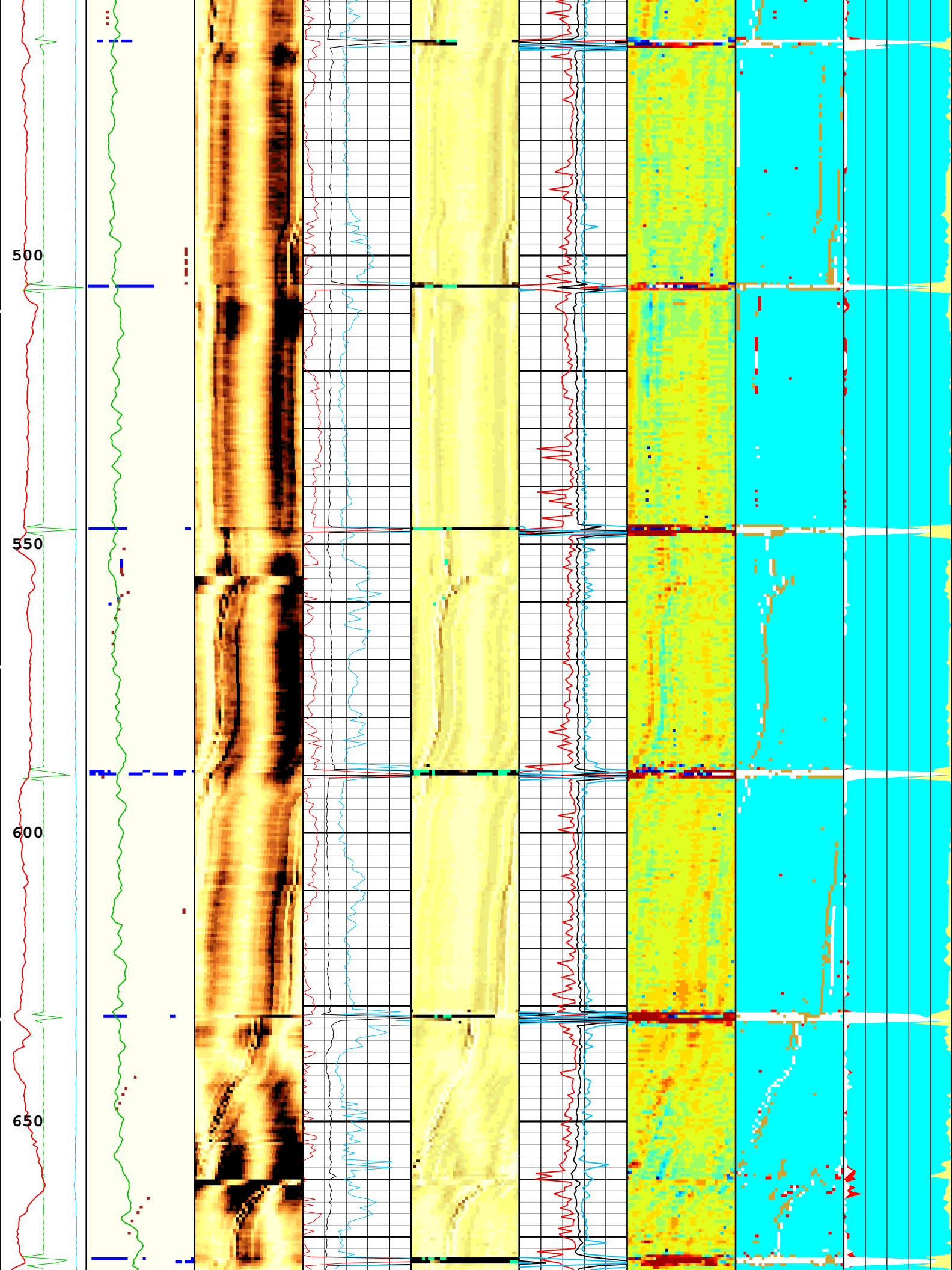
Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)
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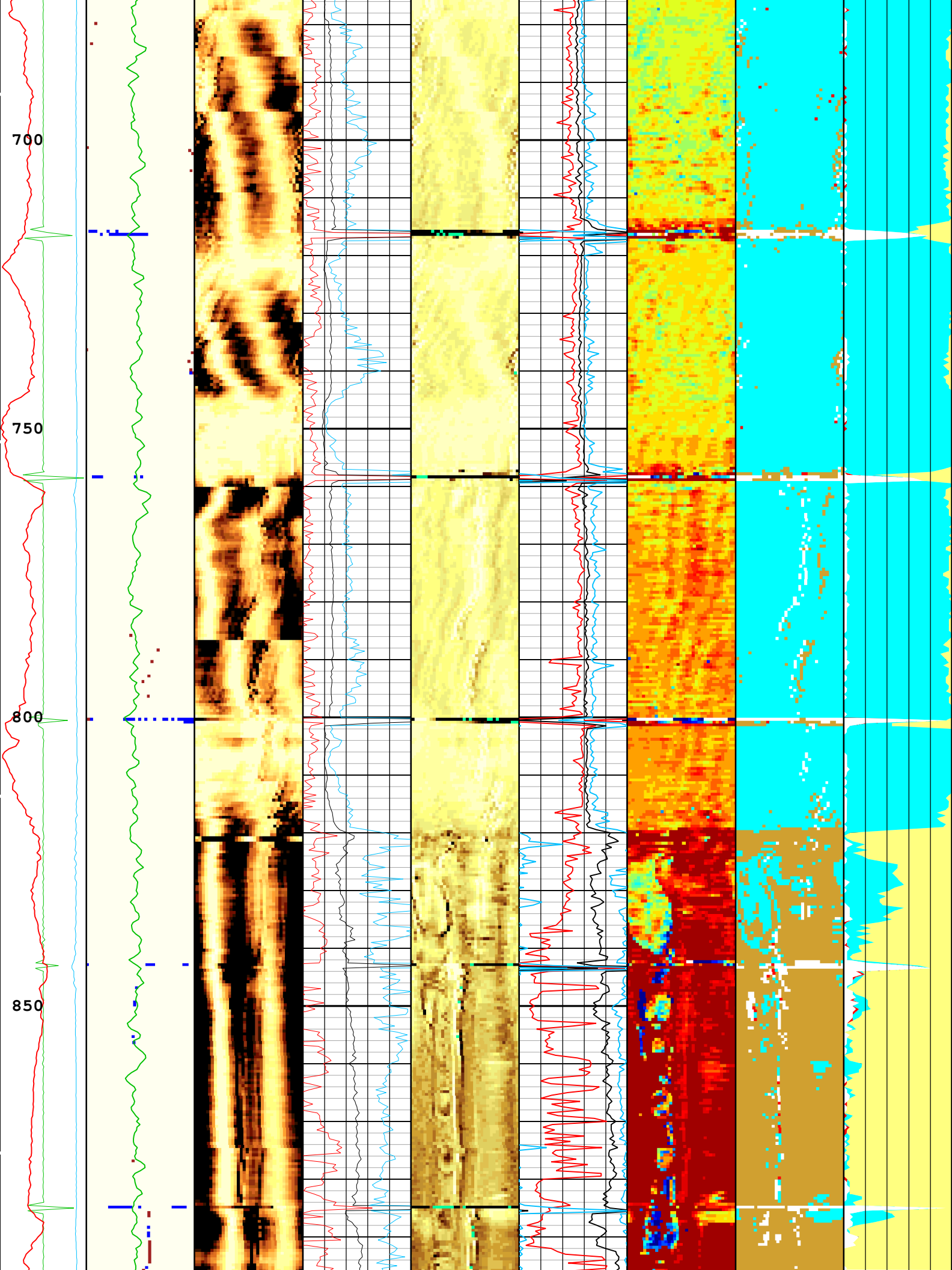
Mud Impedance = "Theoretical".  
CZMD uses theoretical results.  
MUD N THE=1.15

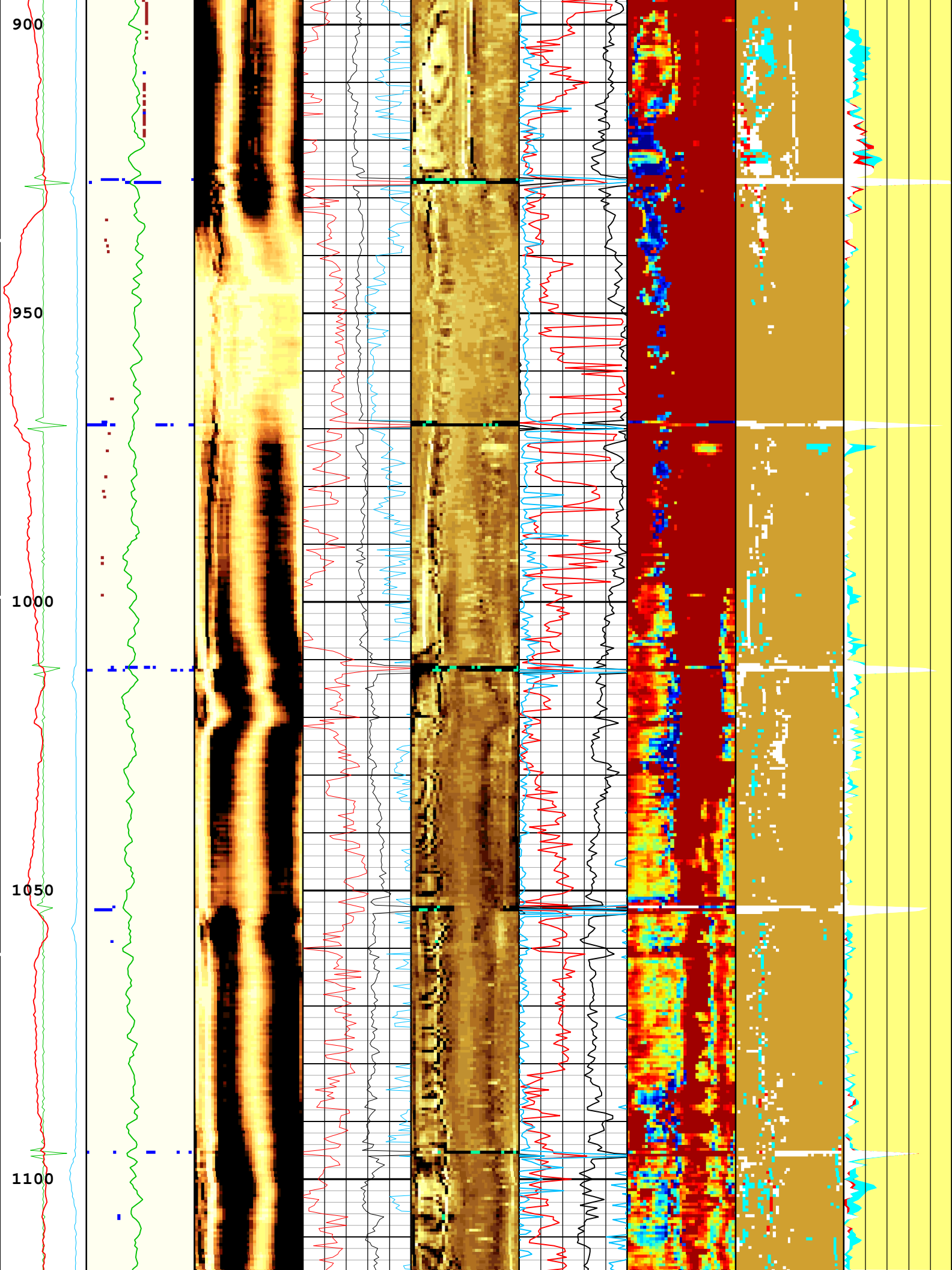


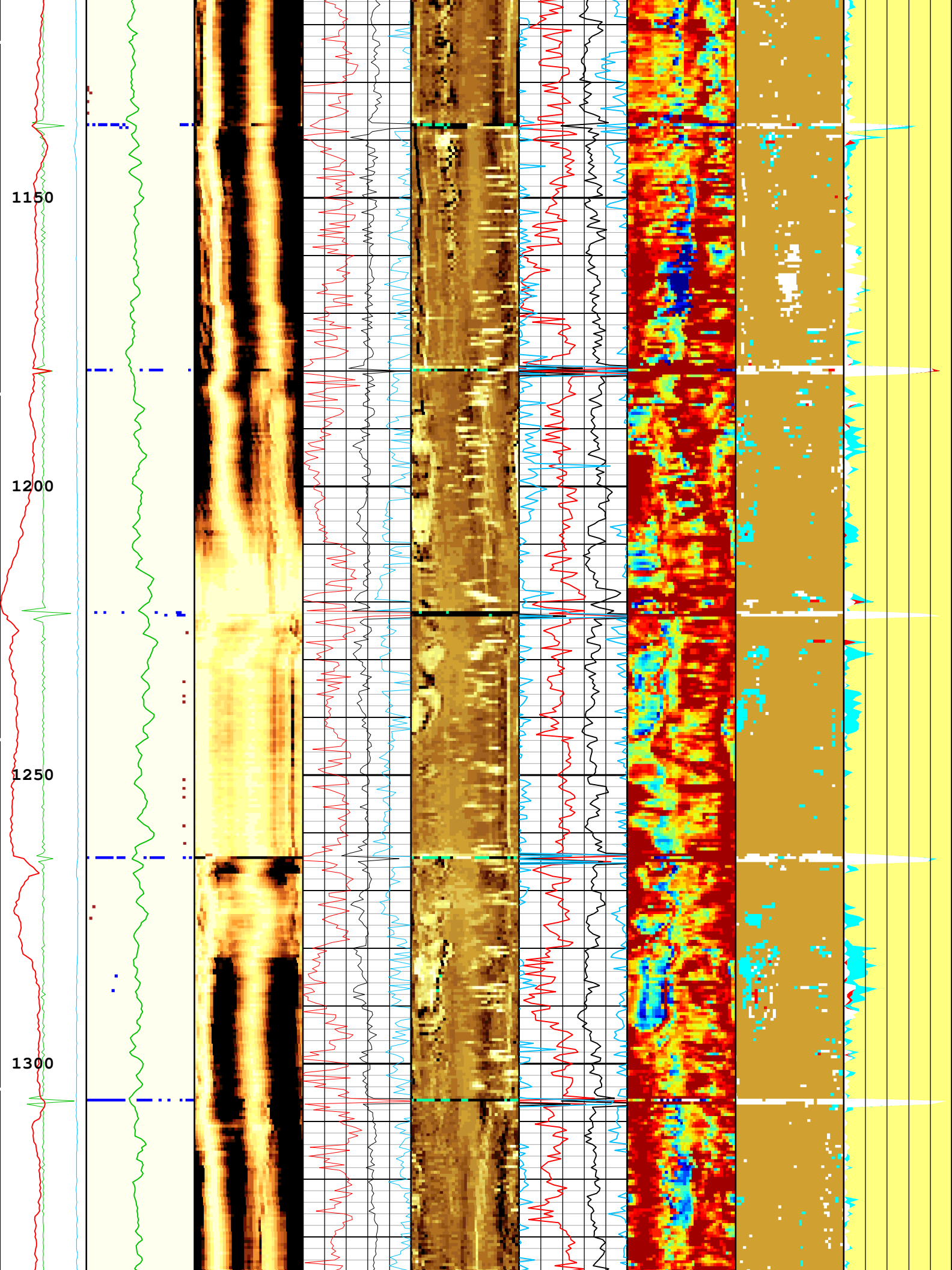




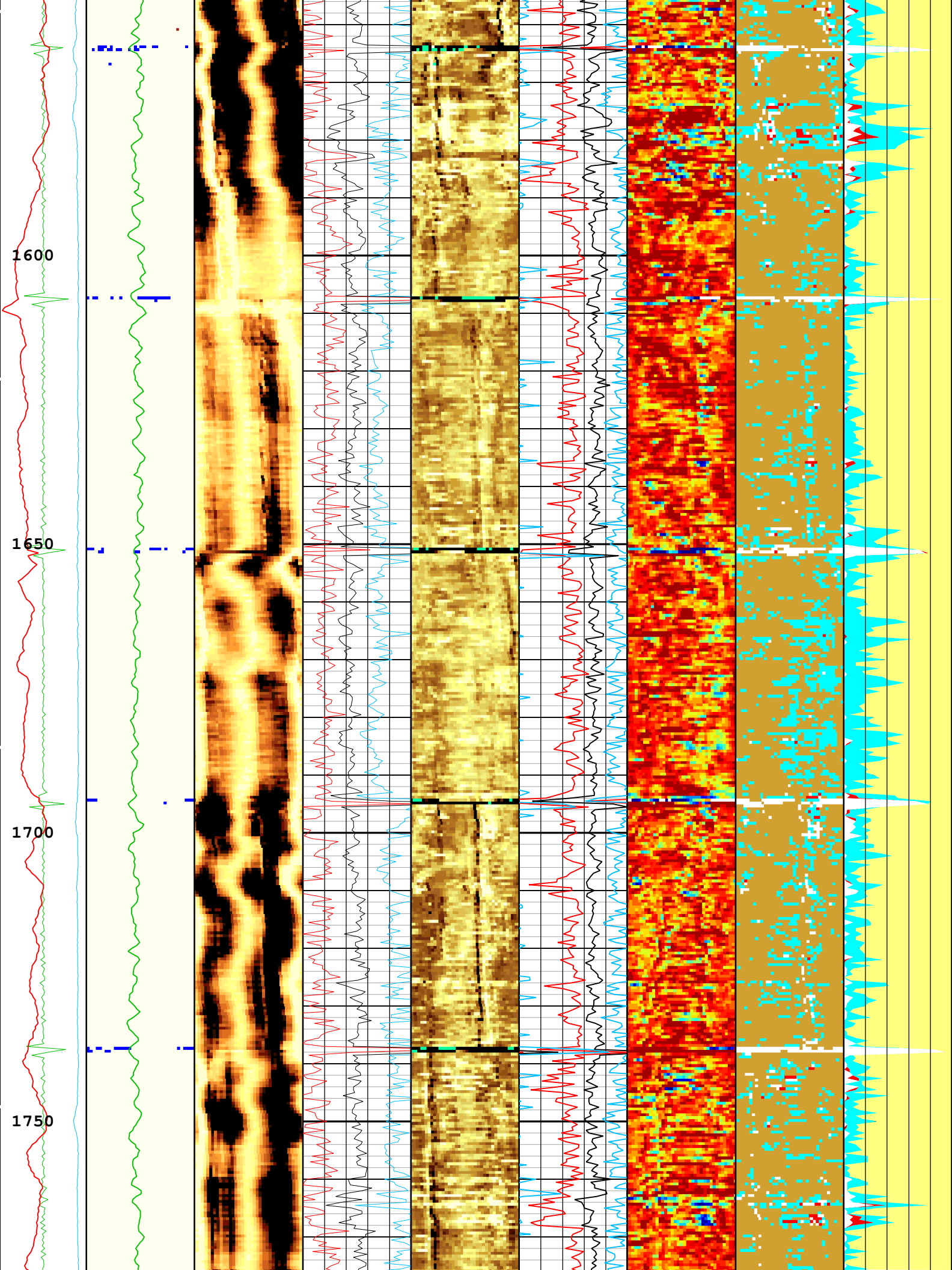


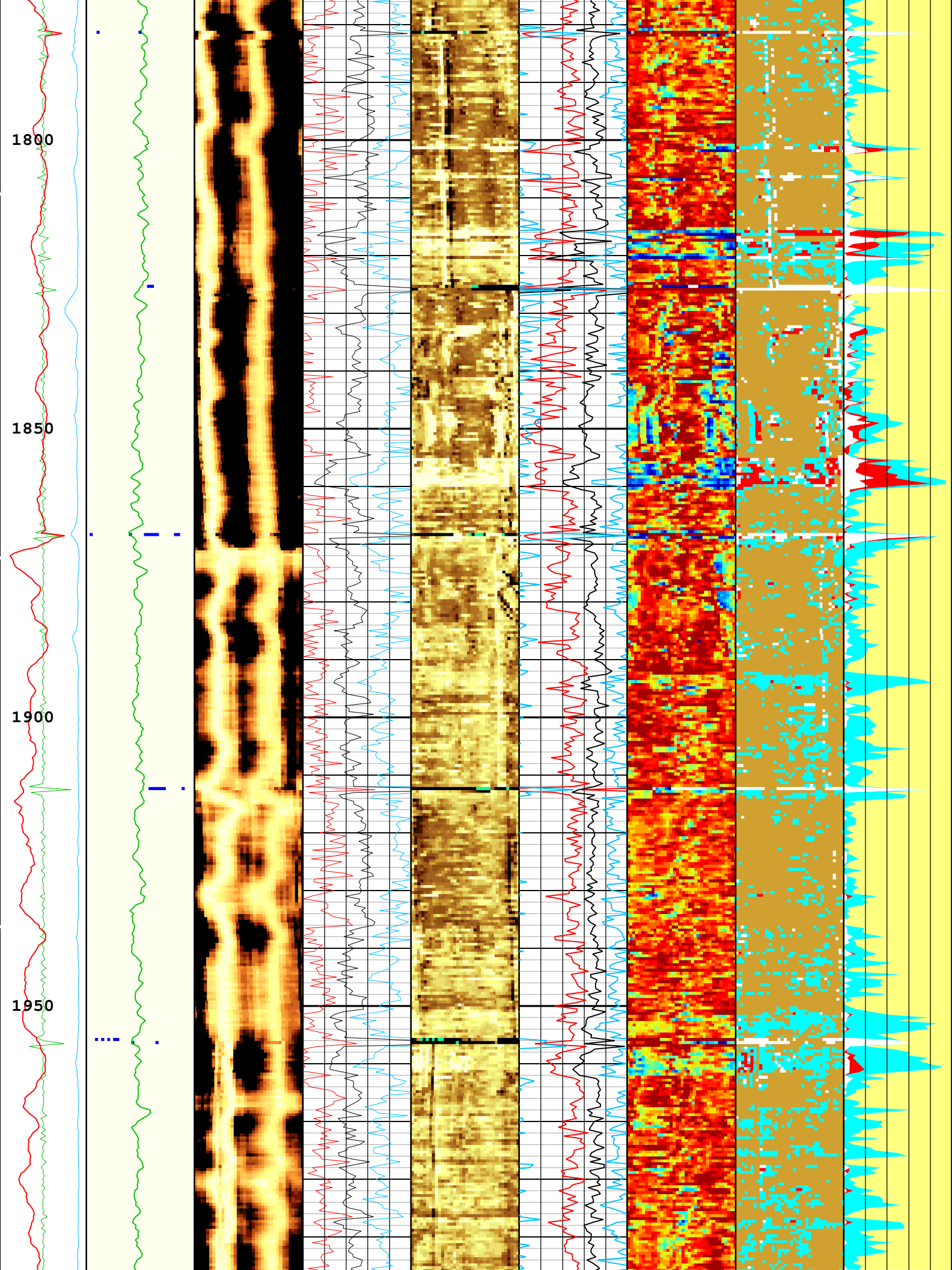


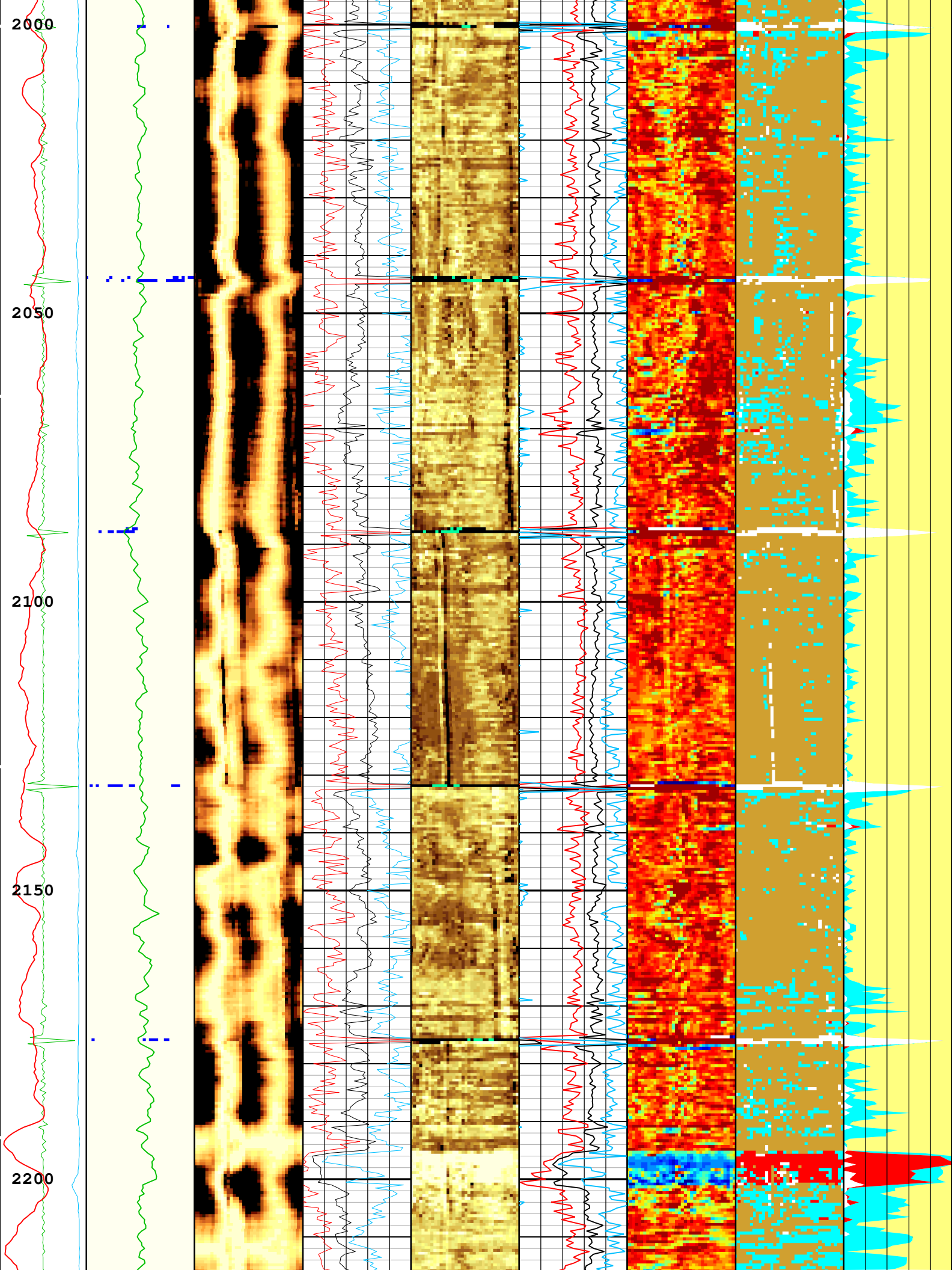


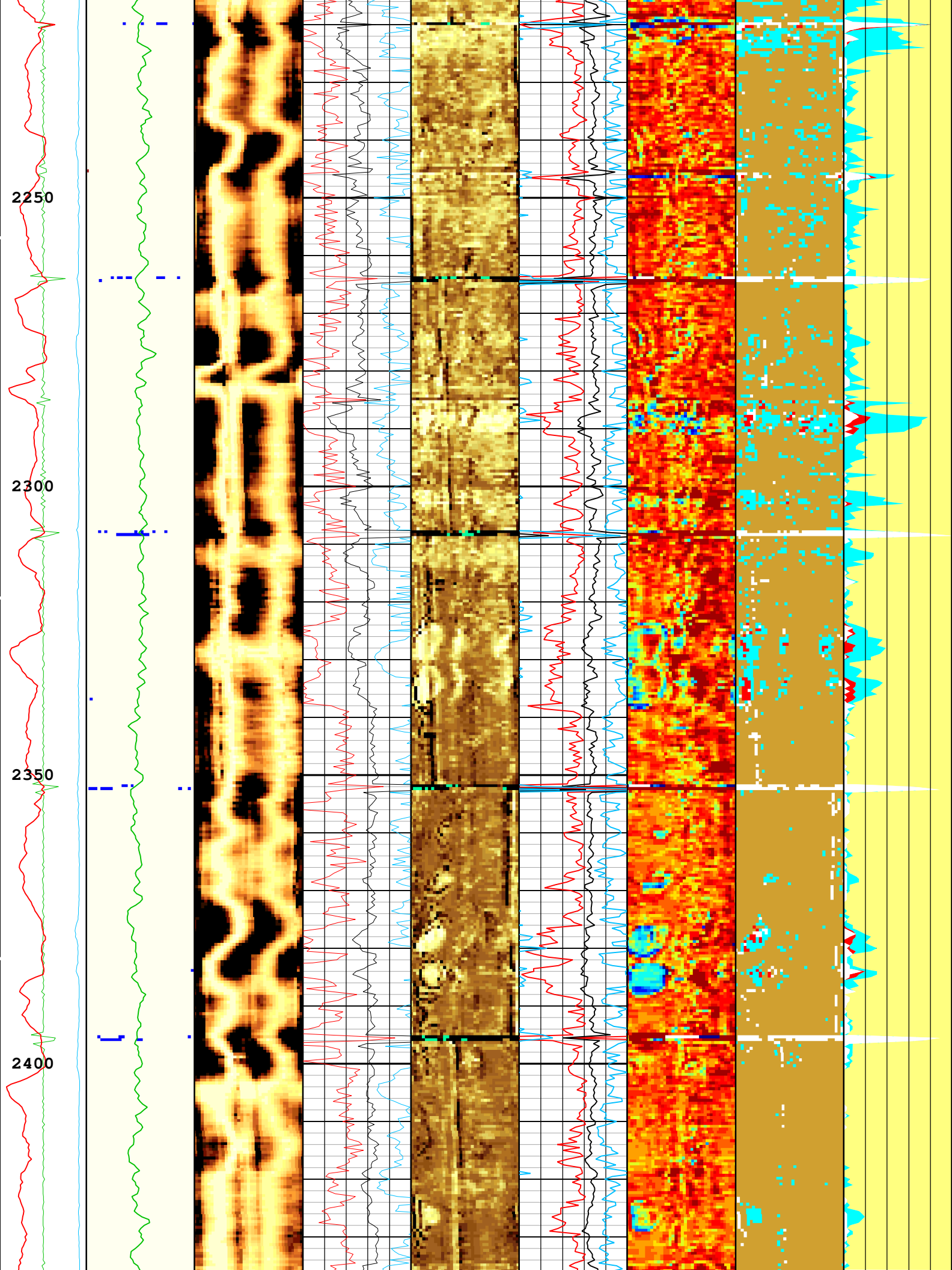


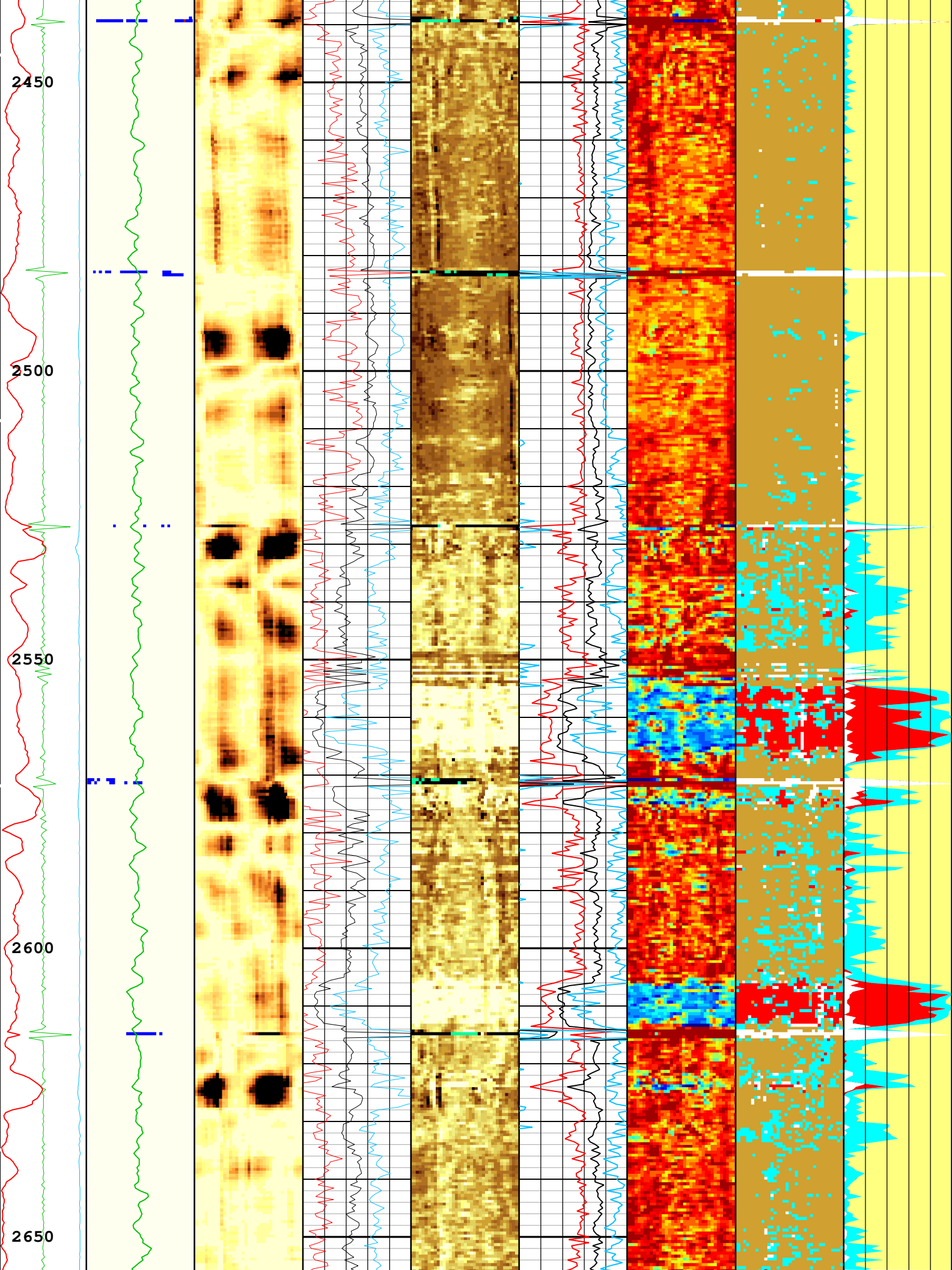


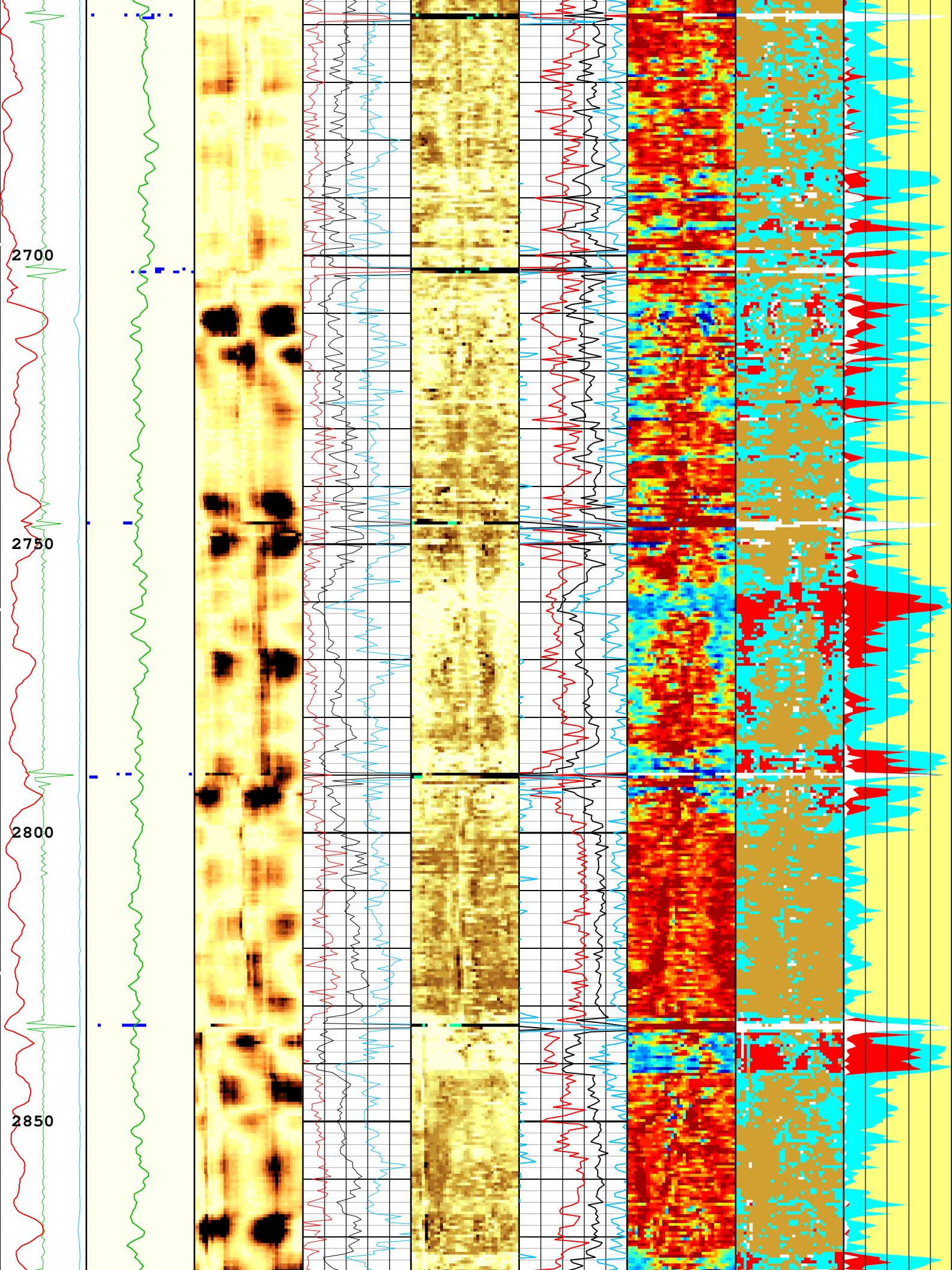


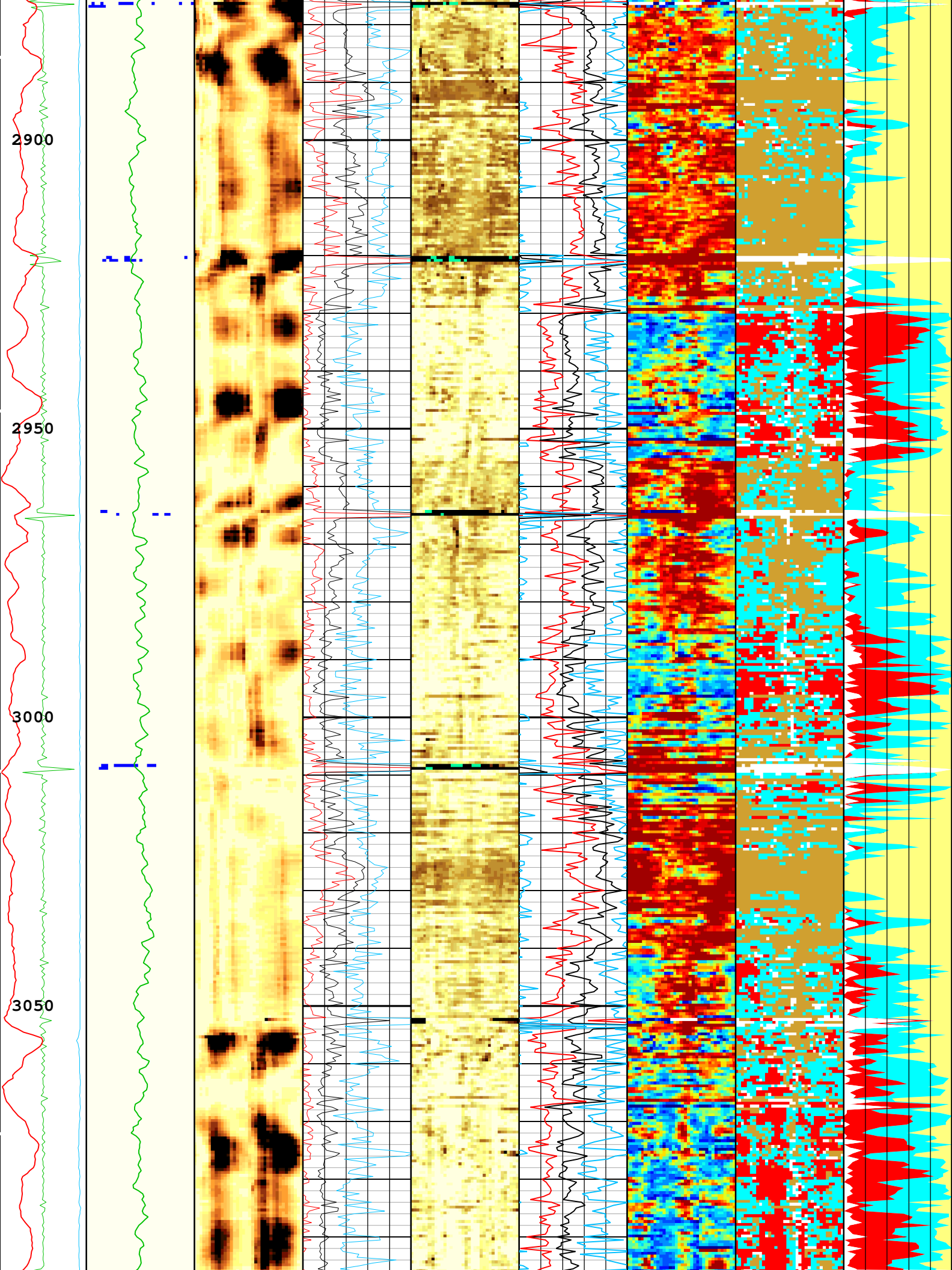


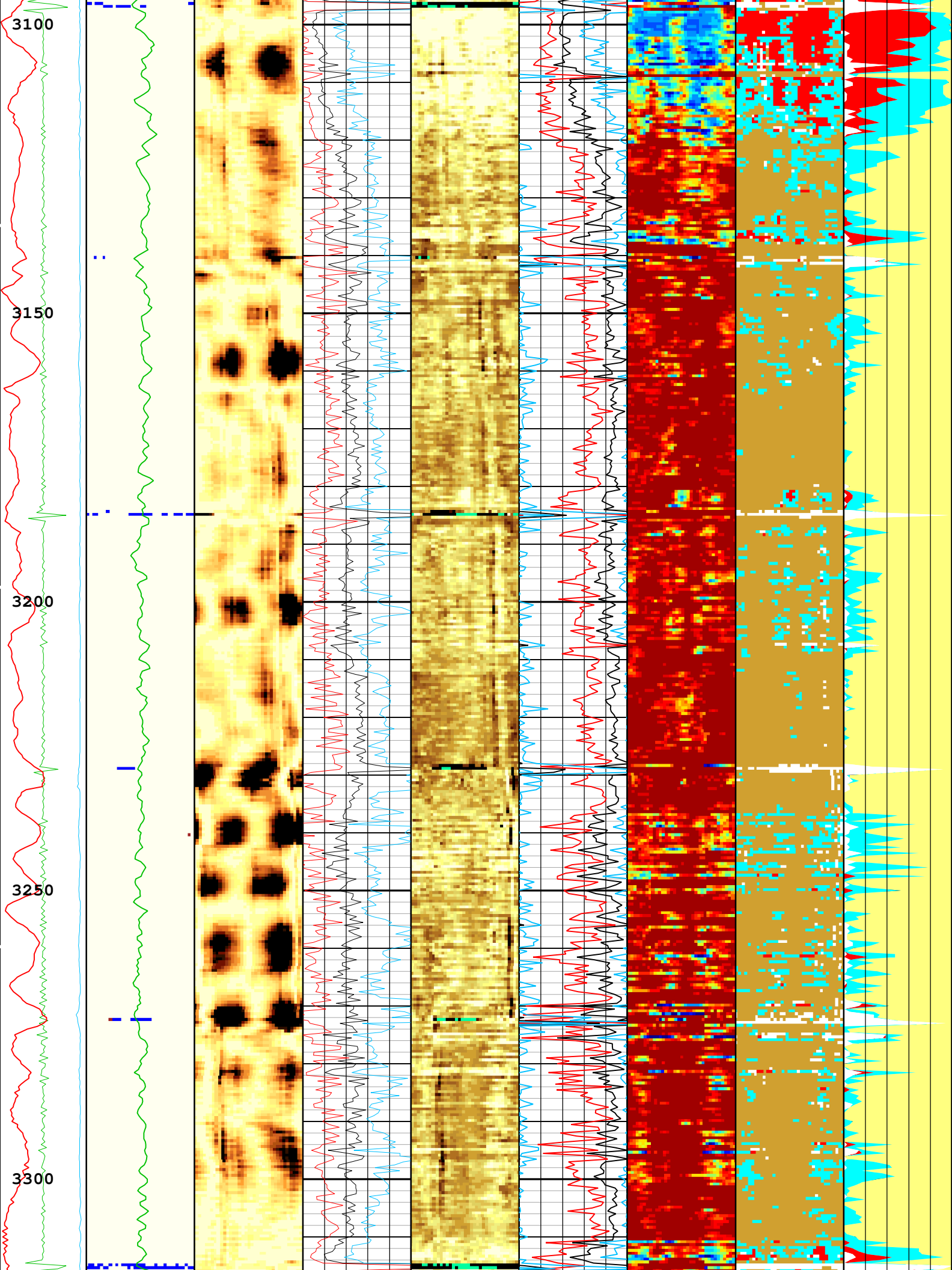


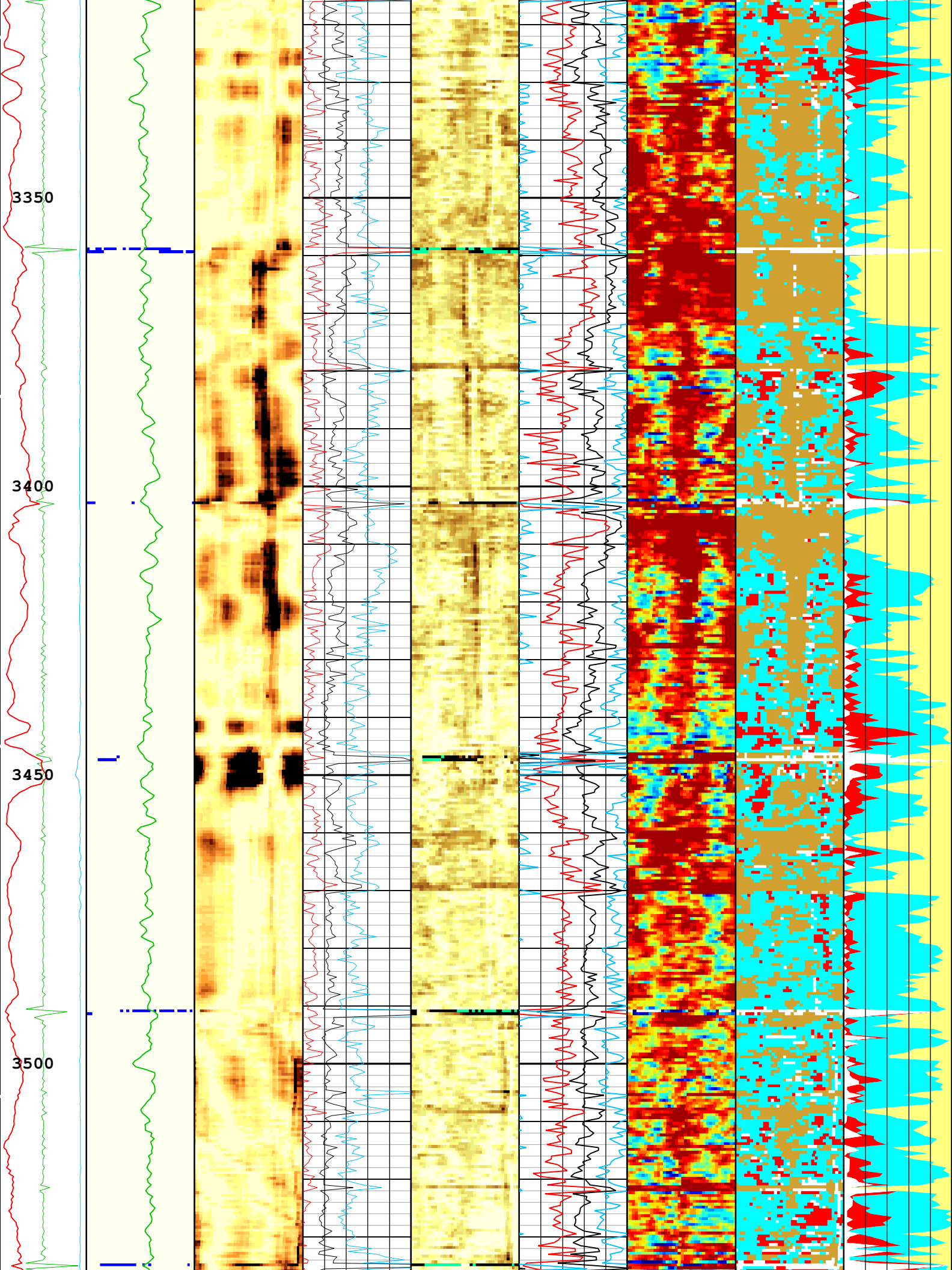


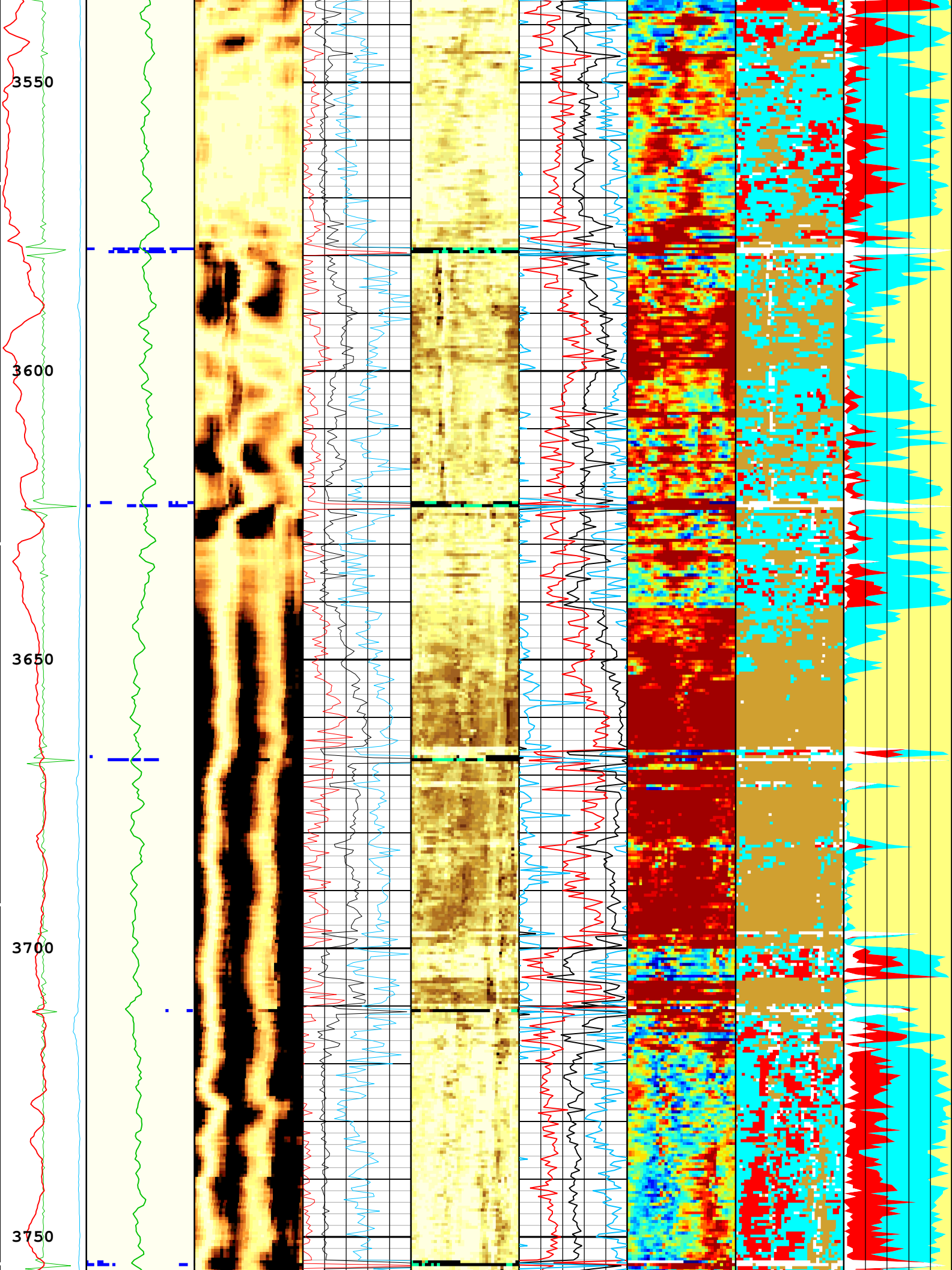


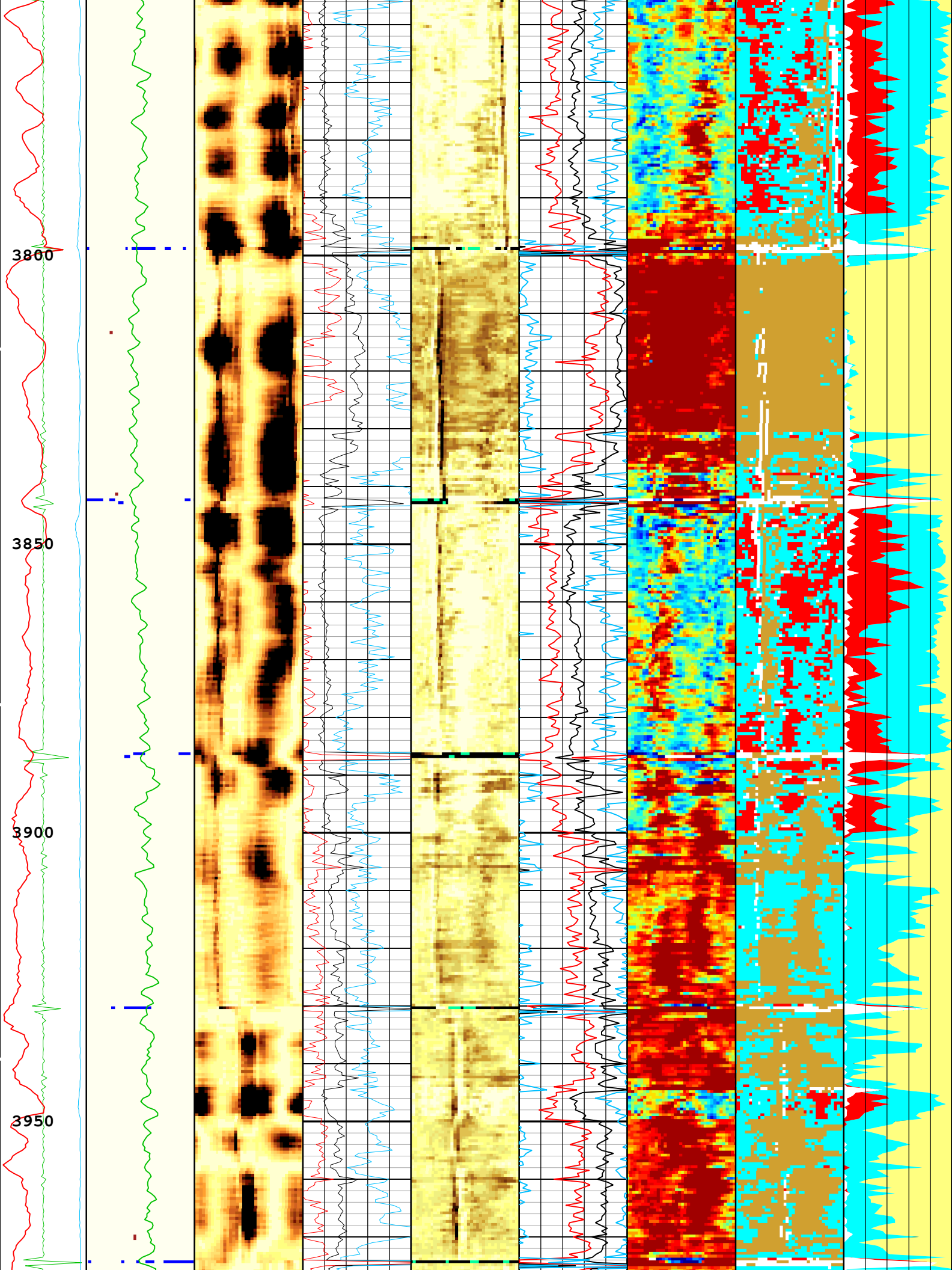


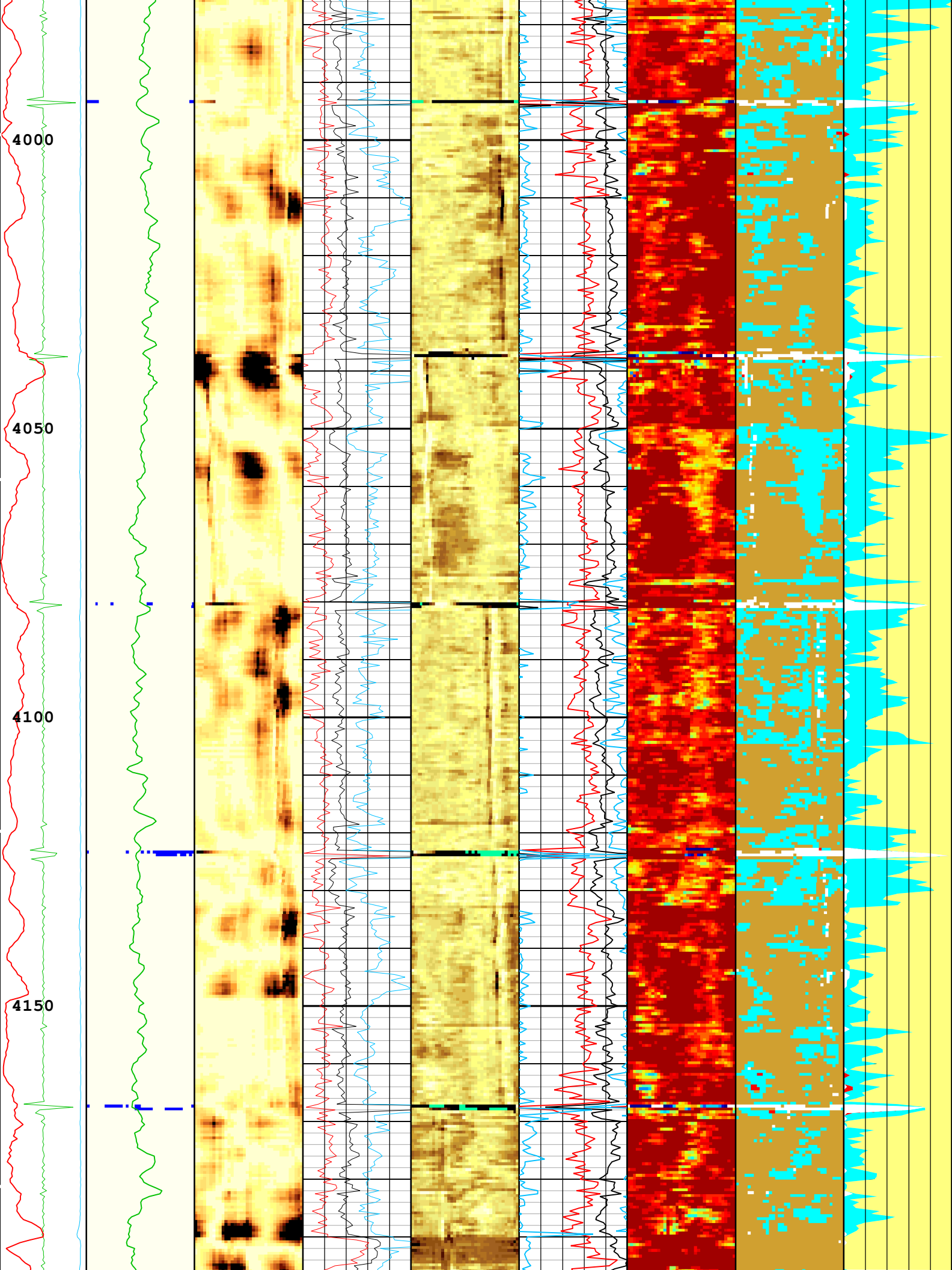


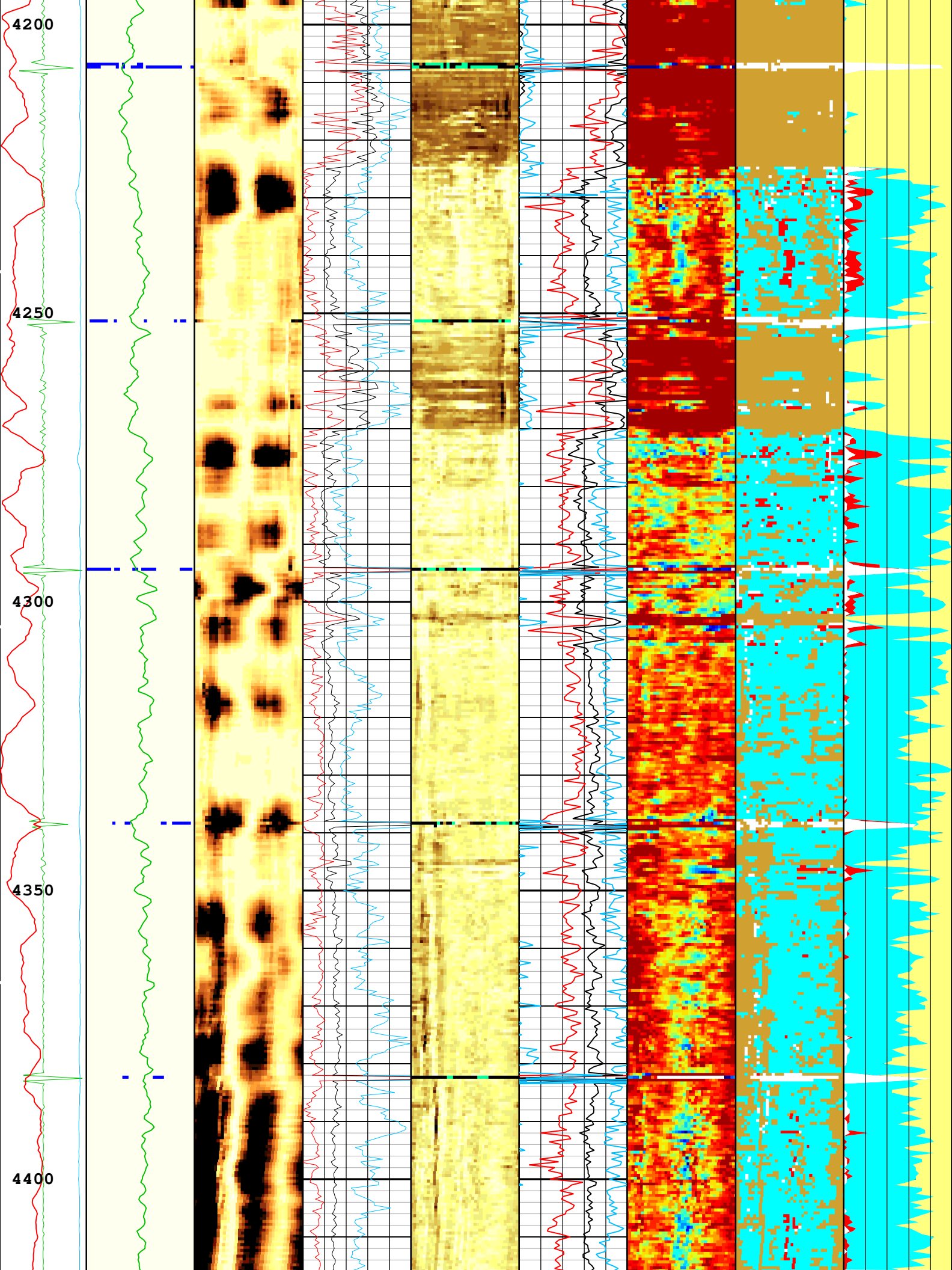




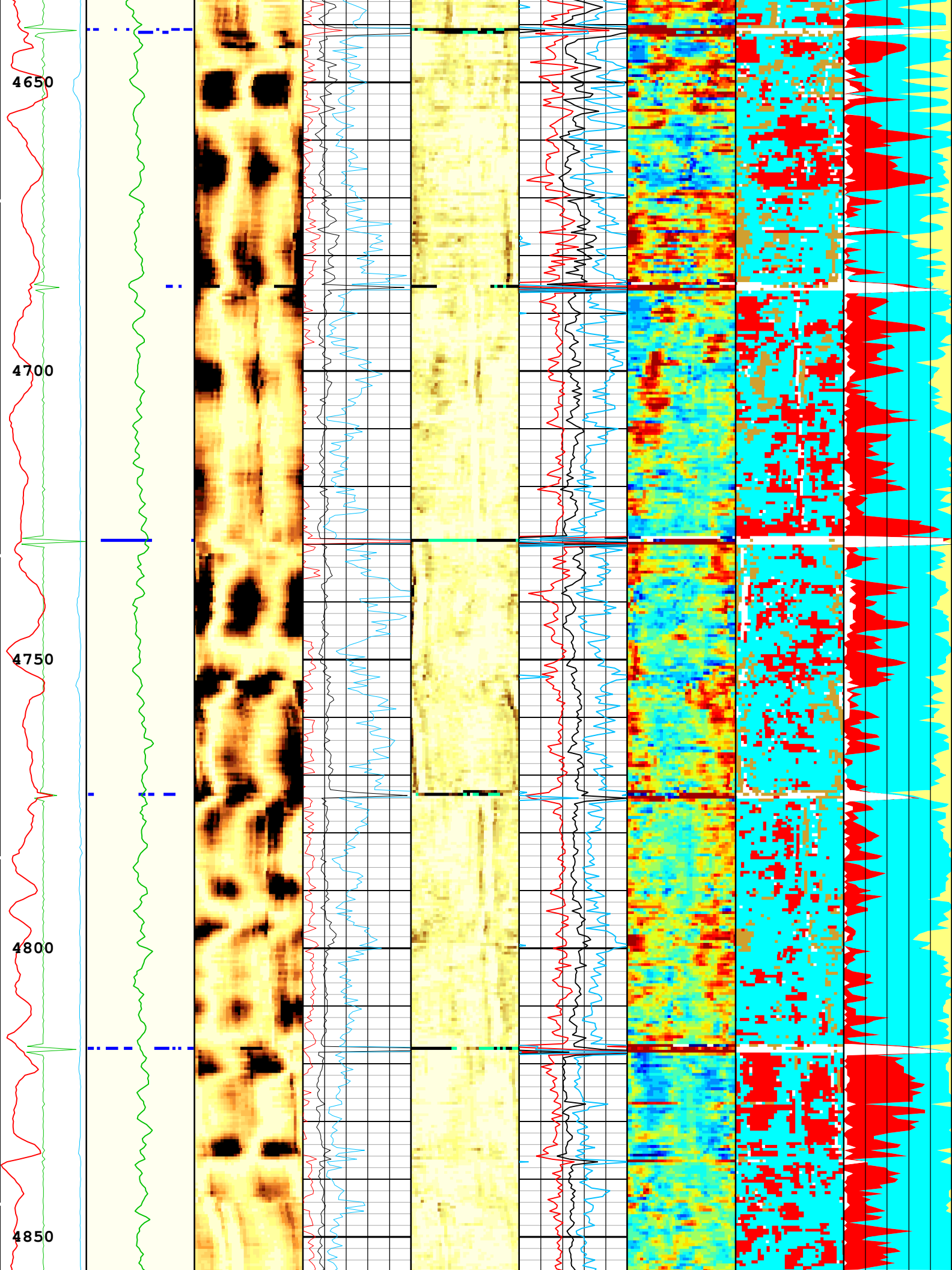


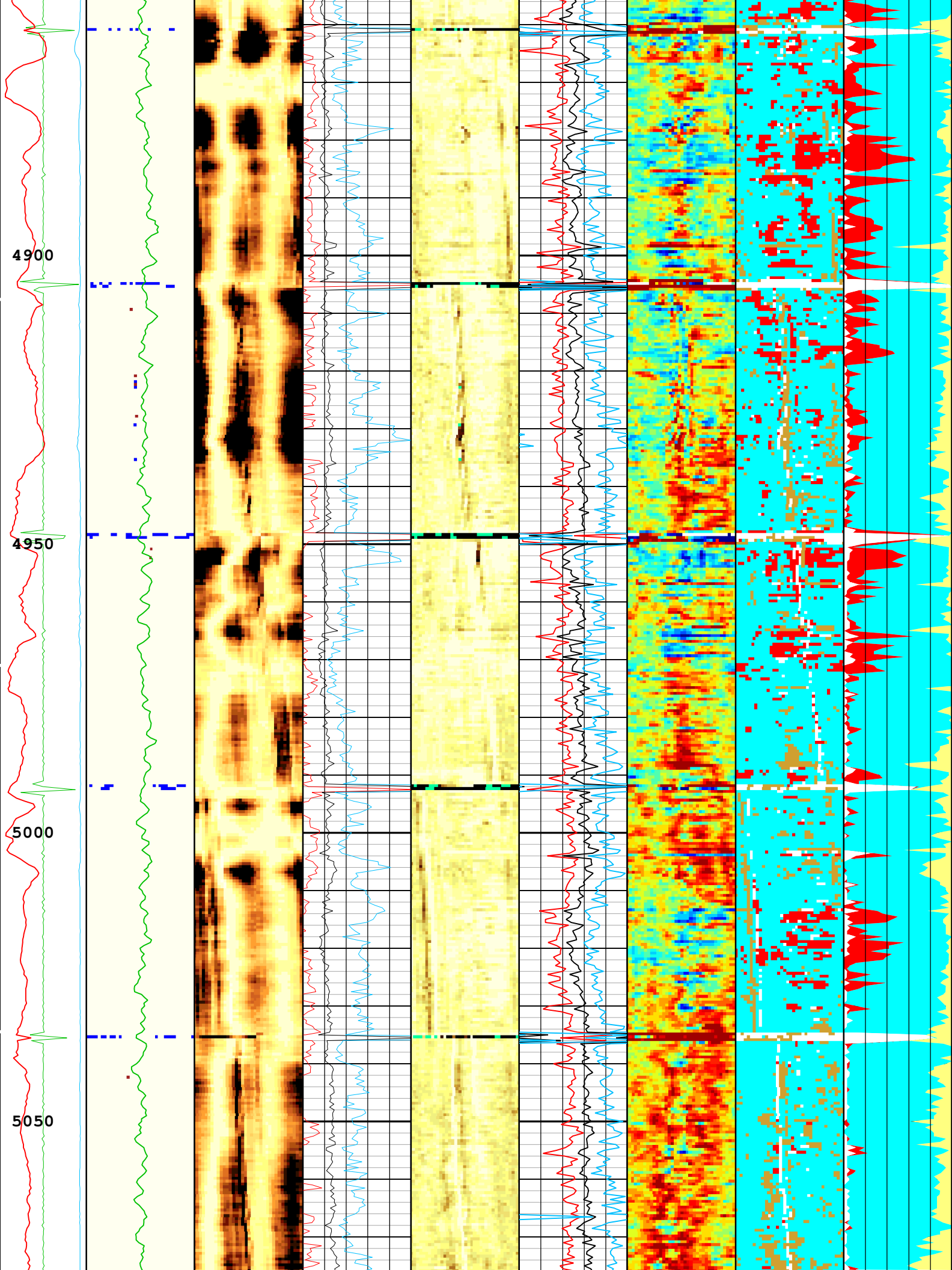


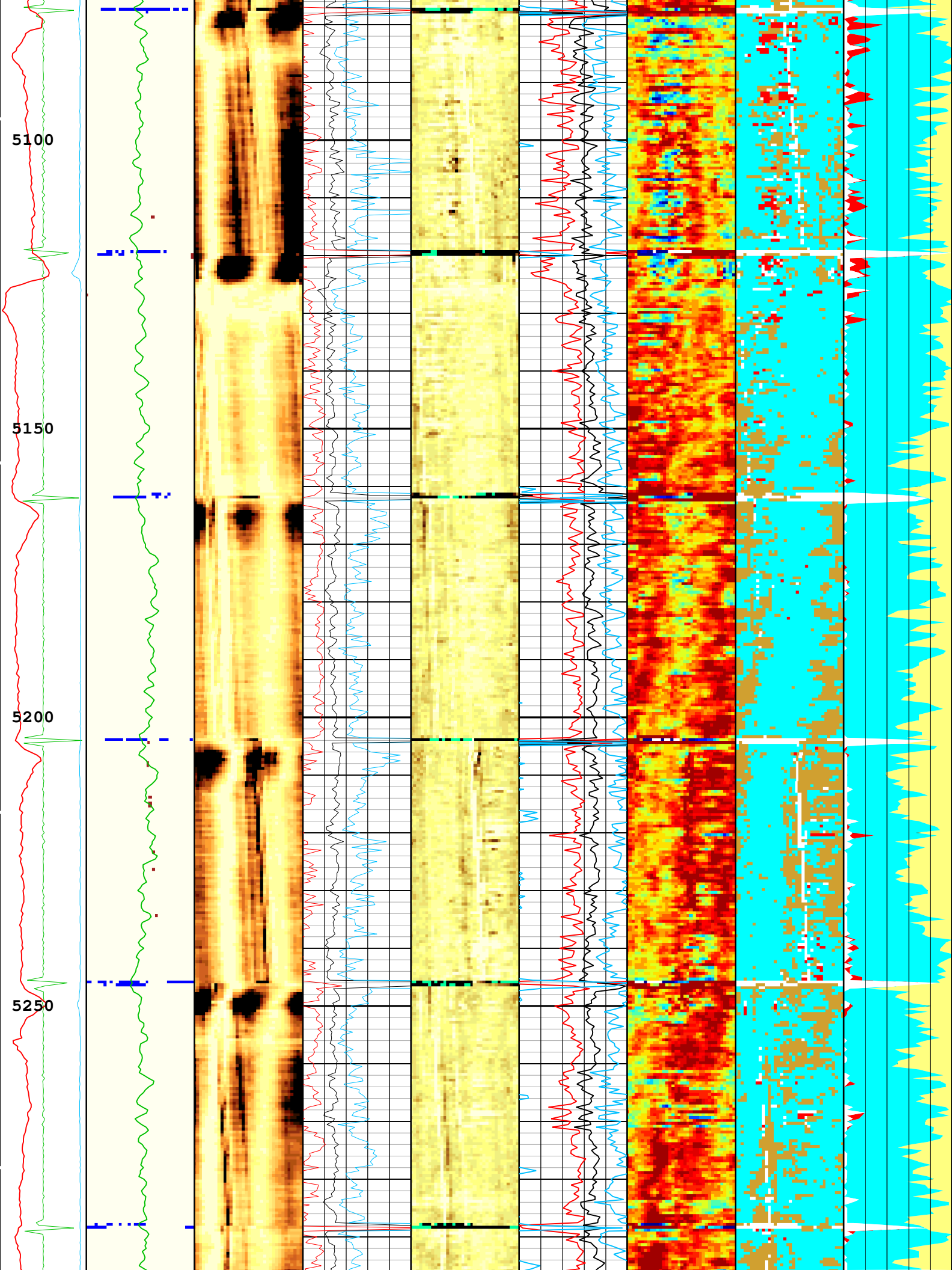


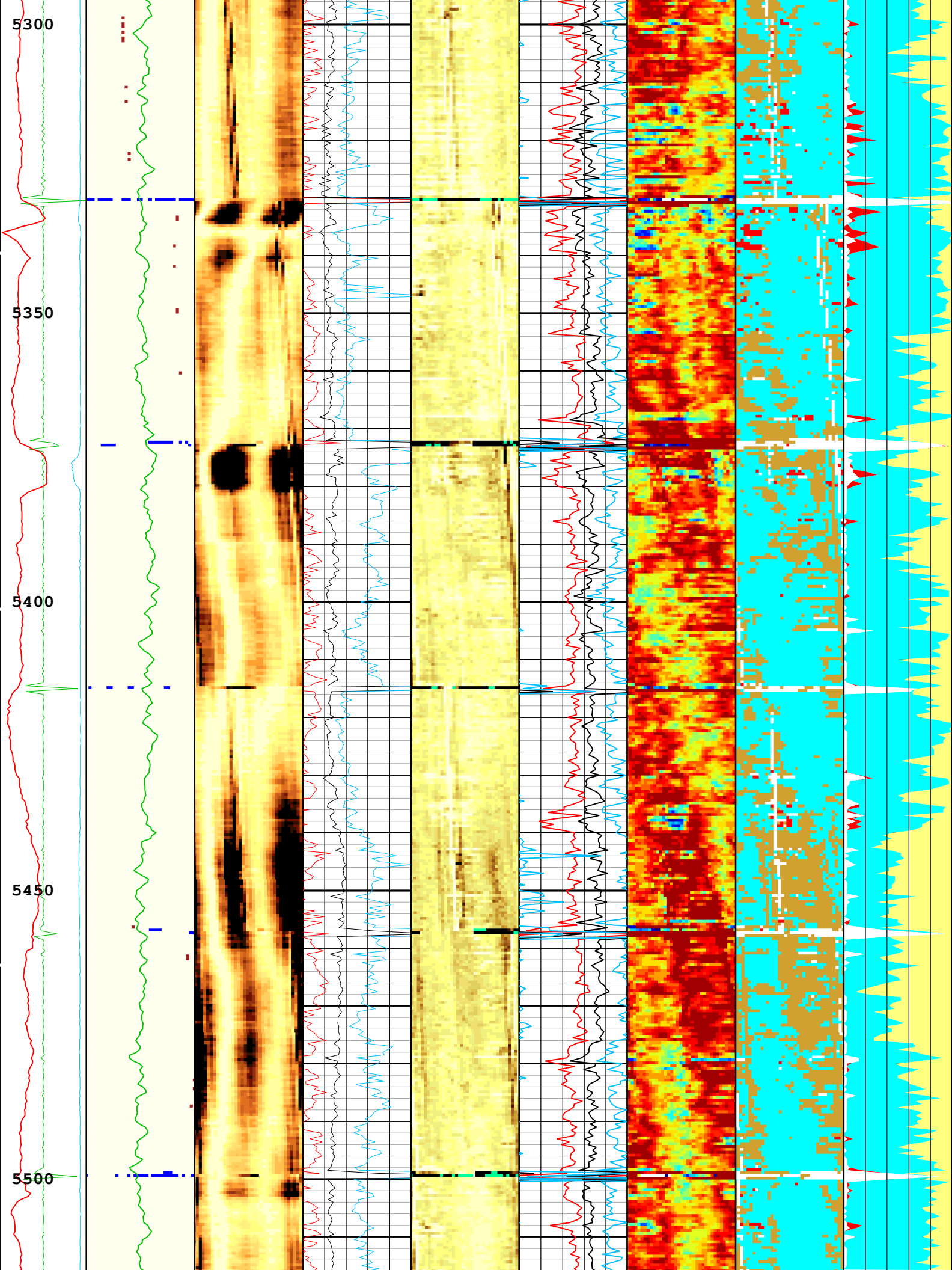


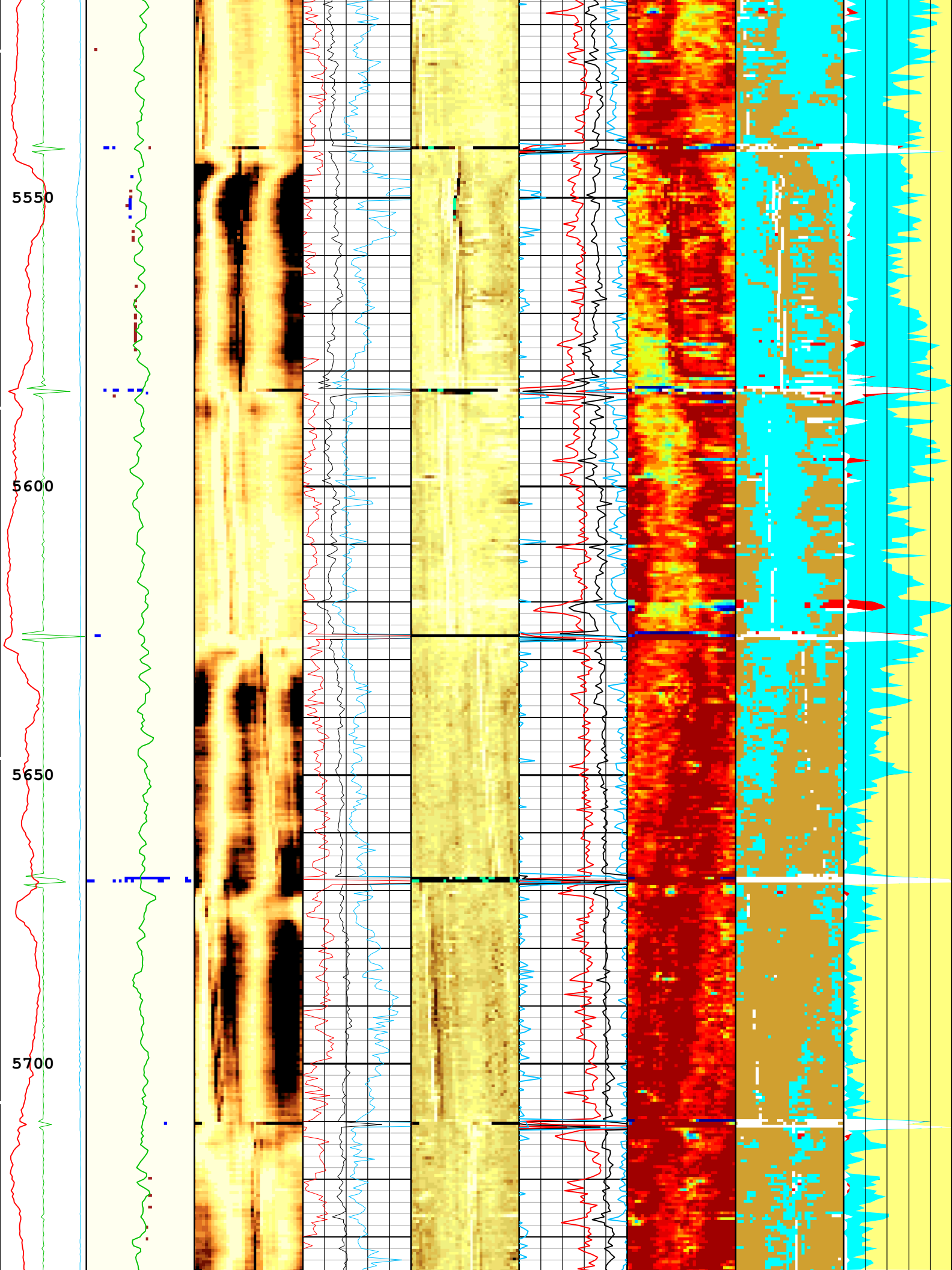


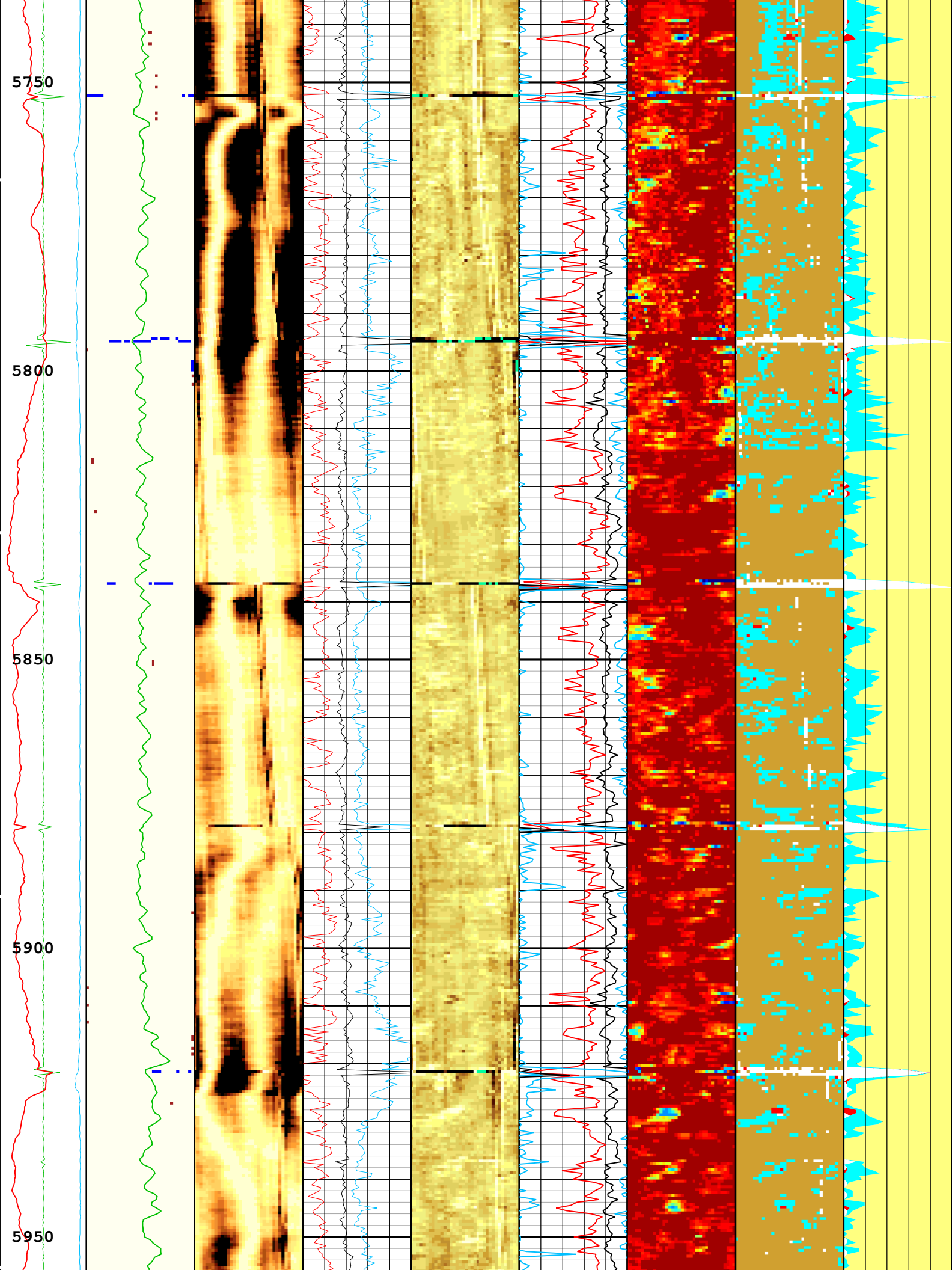


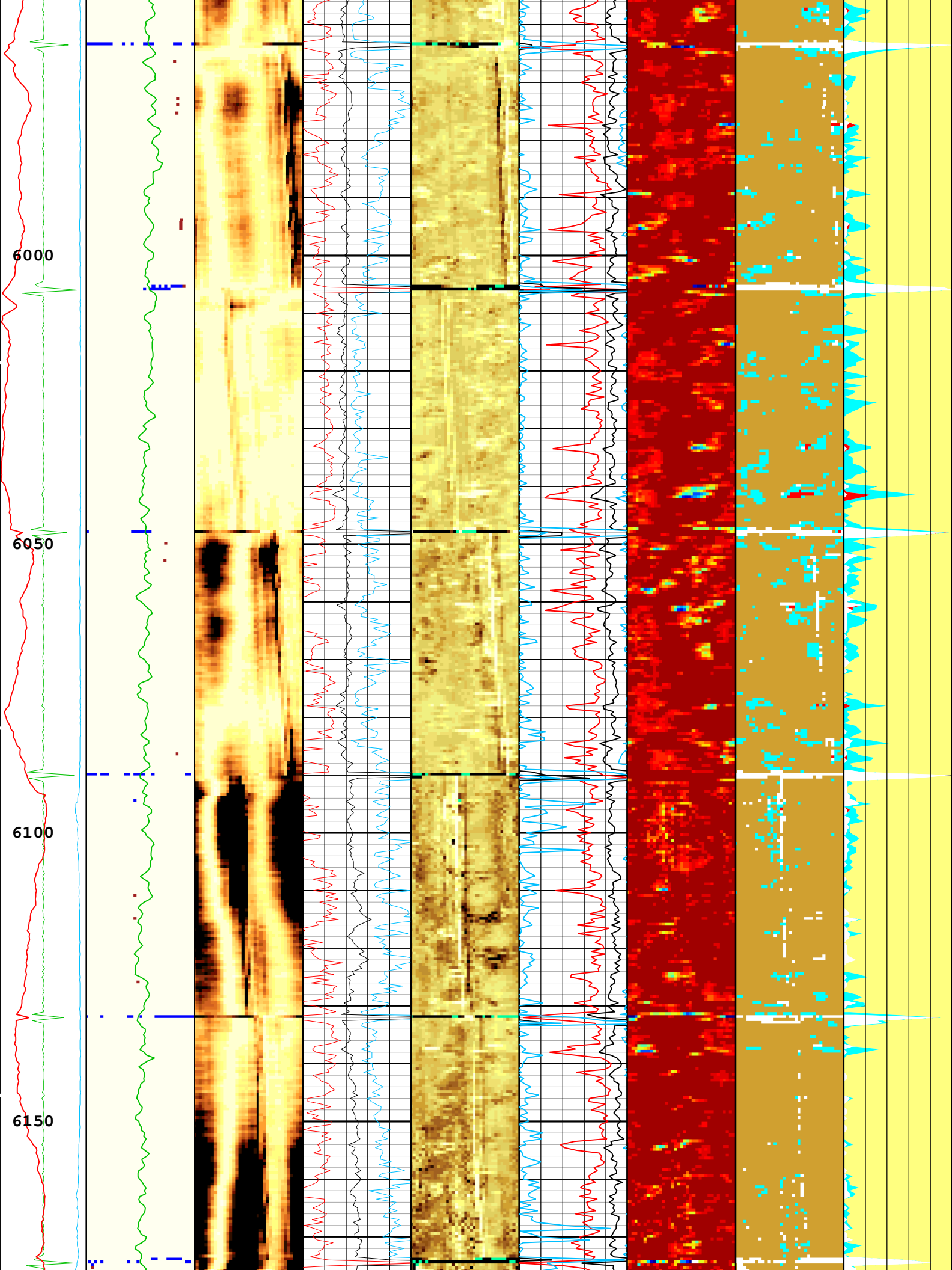


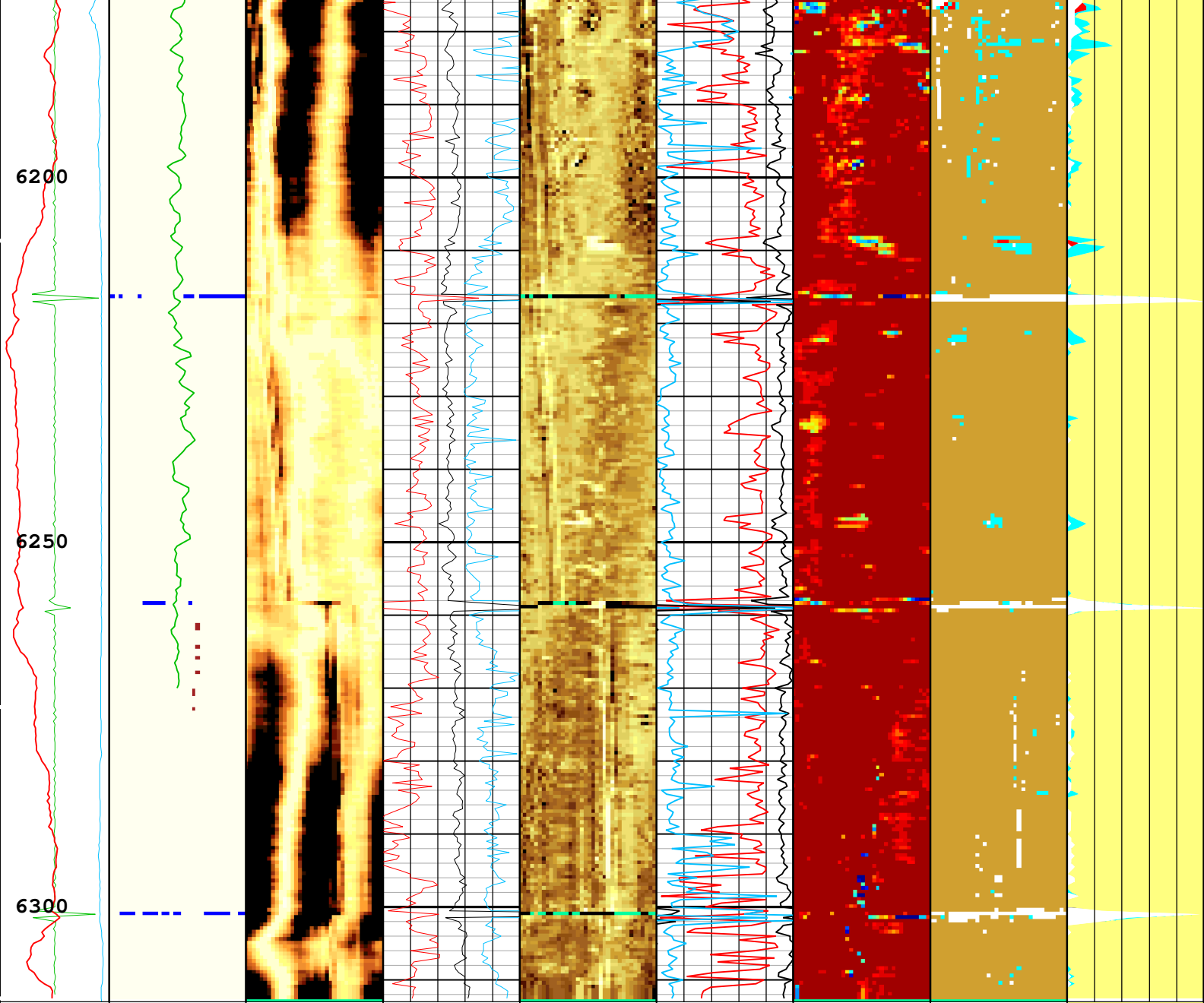












<p>Casing Collar Locator (CCLU) USIT-E</p> <p>Amplitude of Eccentering (ECCE) USIT-E</p> <p>Motor Revolution Speed (RSAV) USIT-E</p> <p>Gamma Ray (ECGR_EDTC) EDTC-B</p>	<p>Absent 1.500 3.500</p> <p>Explicit Normalization</p> <p>USIT - USIT</p> <p>Processing Flags (UFLG) USIT-E</p> <p>Orientation: Top of Hole</p> <p>U L B R U</p> <p>USIT Processing Flags (UFLG[0]) USIT-E</p> <p>1 5</p> <p>Gamma Ray (ECGR_EDTC) EDTC-B</p> <p>0 gAPI 150</p>	<p>Absent -5.200 -3.600 -2.000 -0.400</p> <p>Explicit Normalization</p> <p>USIT - Amplitude of Wave (AWBK) USIT-E</p> <p>(dB)</p> <p>Orientation: Top of Hole</p> <p>U L B R U</p>	<p>Acoustic Impedance Minimum (AIMN) USIT-E</p> <p>-1 Mrayl 9</p> <p>Acoustic Impedance Average (AIAV) USIT-E</p> <p>-1 Mrayl 9</p> <p>Acoustic Impedance Maximum (AIMX) USIT-E</p> <p>-1 Mrayl 9</p>	<p>Absent 1.500 3.500 5.500 7.500</p> <p>Custom Normalization</p> <p>USIT - Acoustic Impedance (AIBK) USIT-E</p> <p>(Mrayl)</p> <p>Orientation: Top of Hole</p> <p>U L B R U</p>	<p>Minimum Flexural Attenuation (U-USIT_UFAN) USIT-E</p> <p>0 dB/m 150</p> <p>Average Flexural Attenuation (U-USIT_UFAV) USIT-E</p> <p>0 dB/m 150</p> <p>Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E</p> <p>0 dB/m 150</p>	<p>Absent 42.000 66.000 90.000 114.000</p> <p>Custom Normalization</p> <p>USIT - Flexural Attenuation (UFAK) USIT-E</p> <p>(dB/m)</p> <p>Orientation: Top of Hole</p> <p>U L B R U</p>	<p>Absent 0.500 1.500 2.500 3.500</p> <p>Explicit Normalization</p> <p>USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E</p> <p>Orientation: Top of Hole</p> <p>U L B R U</p>	<p>SLG Solid Index</p> <p>SLG Liquid Index</p> <p>SLG Gas Index</p> <p>SLG White Point Index</p>
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USIT Processing Flags (UFLG[0]) USIT-E

1 - UFLG 1 Value within [0.0 - 1.5] - UTIM Error

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 ] - :

01M Error  
 Pulse Origin Not Detected  
 WINLEN Error  
 Casing Thickness Error  
 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: 31-Oct-2023 11:55:45

## Channel Processing Parameters

### R1D1: 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	7755	ft
CDEN	Cement Density	USIT-E	1.68	g/cm3
CDEN	Cement Density	EDTC-B	2	g/cm3
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular 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	1.01	g/cm3
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	0	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	Theoretical	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.5	us
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.15	
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
RPLUS_PROCESS	Ultrasonic R+ Processing	USIT-E	No	
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	120	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	80	%
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.5	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-15	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	ThirdInterfaceEcho	
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	1.48	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	12.25	0	675
BS	7.875	675	6313

All depth are actual.

## Tool Control Parameters

### R1D1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	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	
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 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	

## Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
EMXV	7	31-Oct-2023 09:17:35	31-Oct-2023 09:26:23	6314.01	6184.02
EMXV	8	31-Oct-2023 09:26:23	31-Oct-2023 09:46:59	6184.02	4908.53
EMXV	7	31-Oct-2023 09:46:59	31-Oct-2023 10:35:14	4908.53	1920.88
EMXV	6	31-Oct-2023 10:35:14	31-Oct-2023 10:46:31	1920.88	1212.22
EMXV	5	31-Oct-2023 10:46:31	31-Oct-2023 11:11:48	1212.22	34.29

All depth are at tool zero.

## R1D1

## Software Version

Acquisition System	Version
Maxwell 2023.0	13.0.221437.3100
Application Patch	Wireline_Hotfix-Mandatory-2023.0_13.0.224590
	Wireline_NRD_Thu_Pit_2023.0_13.0.225000

# Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
R1D1	Log[4]:Up	Up	34.29 ft	6314.01 ft	31-Oct-2023 9:17:35 AM	31-Oct-2023 11:11:48 AM	ON	3.09 ft	Yes

All depths are referenced to toolstring zero

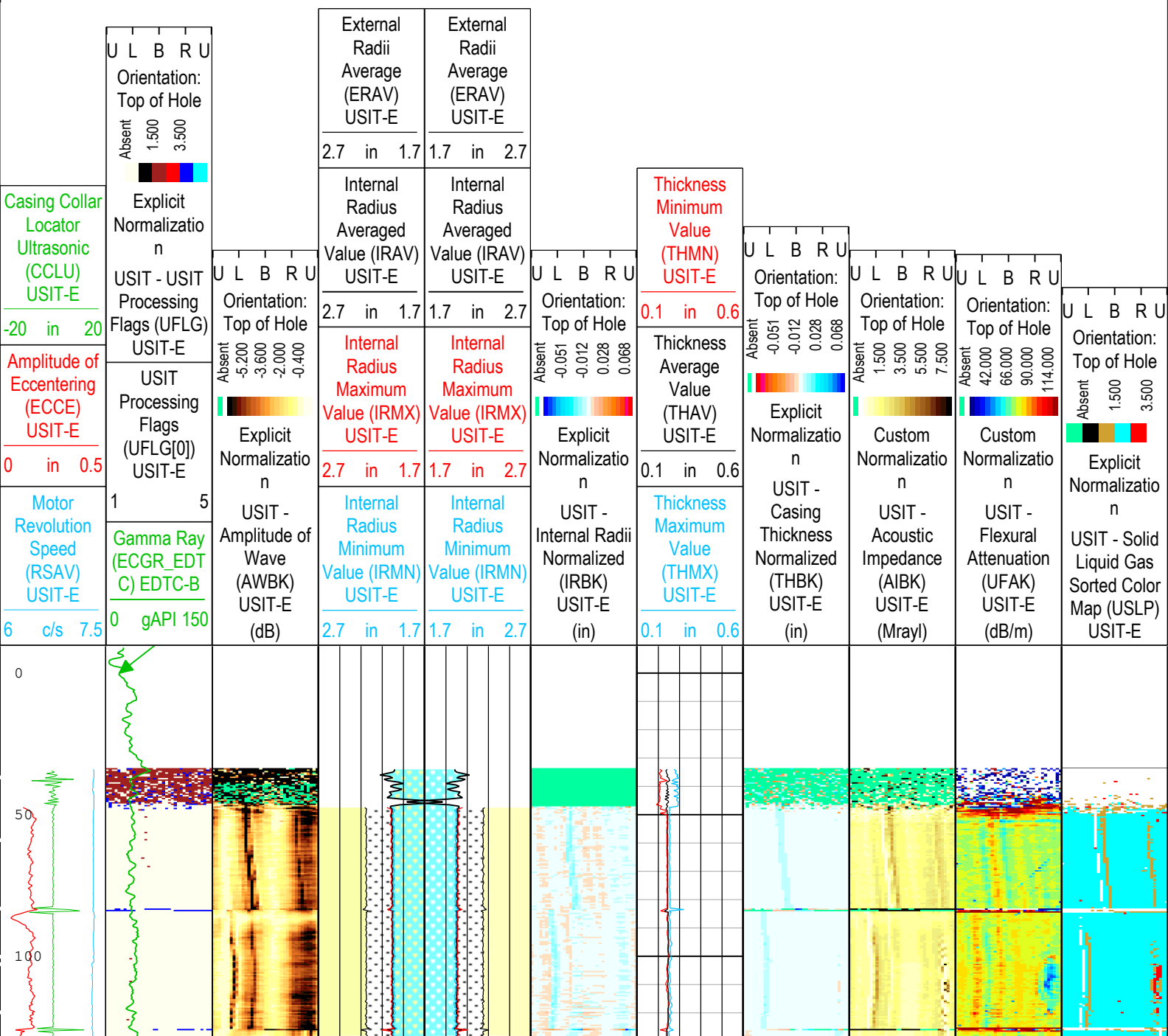
**Log** Company: Occidental Petroleum Corporation Well: Burchfield State 23-16  
 R1D1: Log[4]:Up:S007

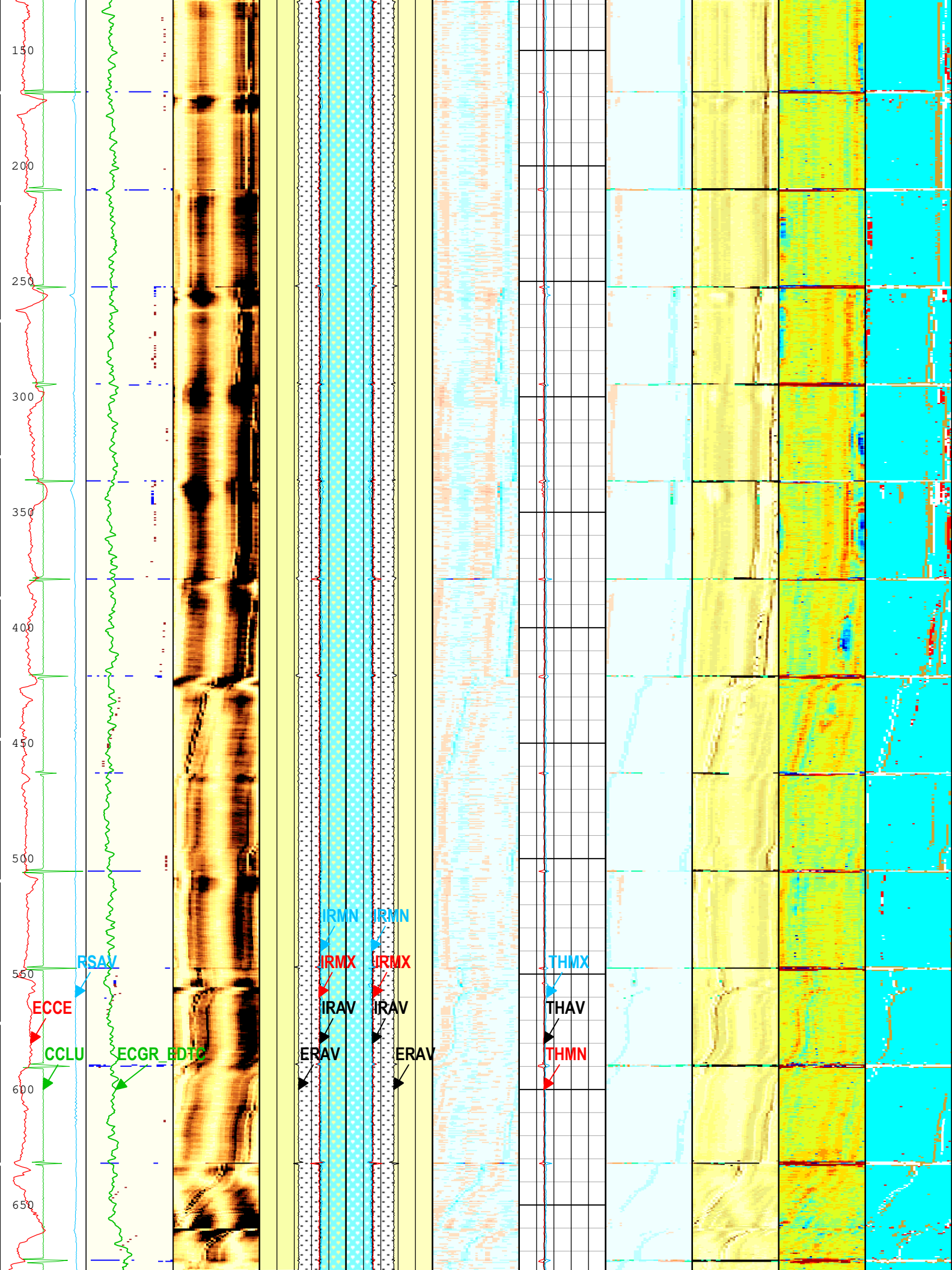
Description: USI IBC SLG Composite Format: Log ( IBC SLG Composite 4.5IN ) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth  
 Creation Date: 31-Oct-2023 11:56:01

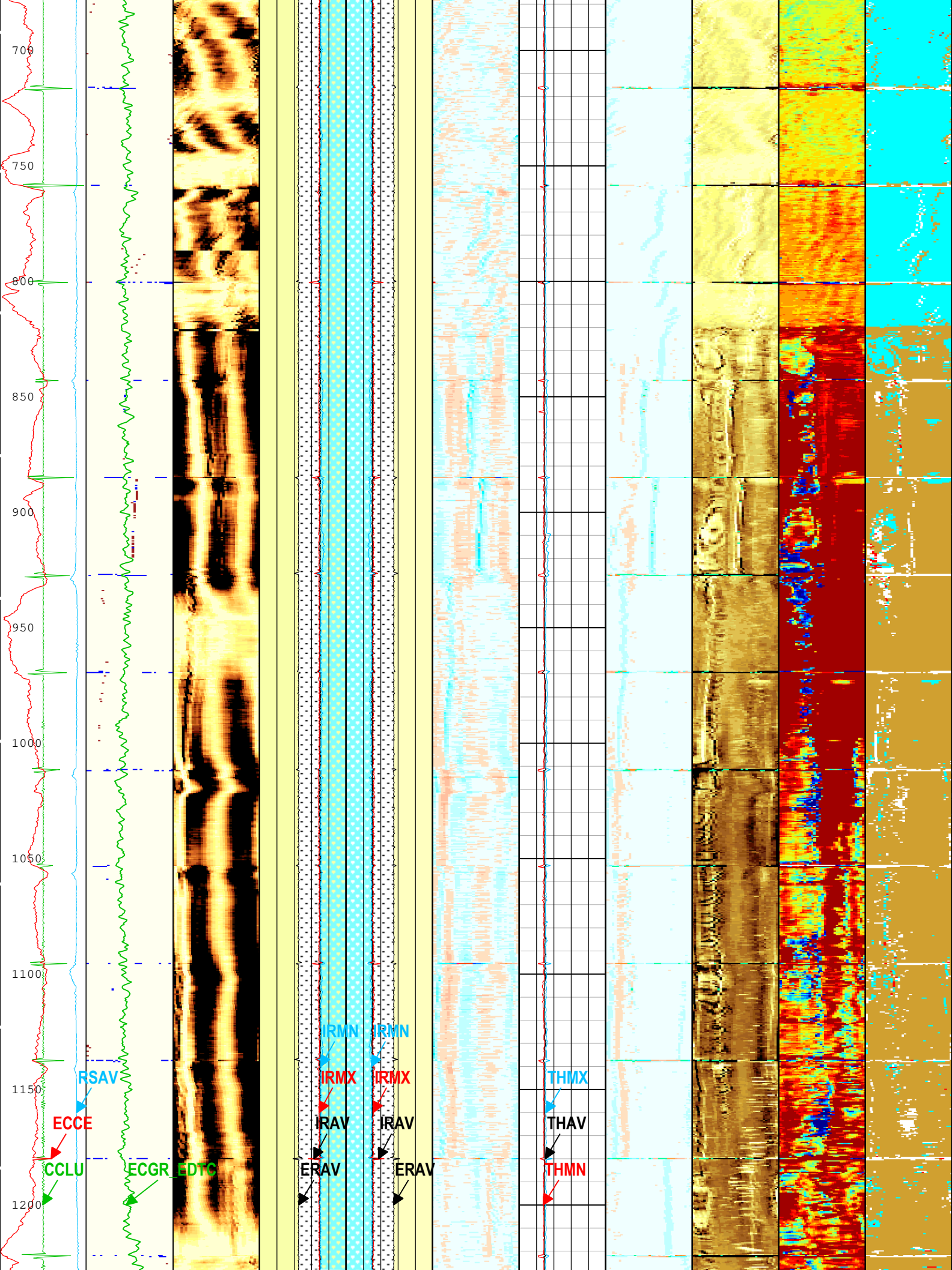
USIT Processing Flags (UFLG[0]) USIT-E

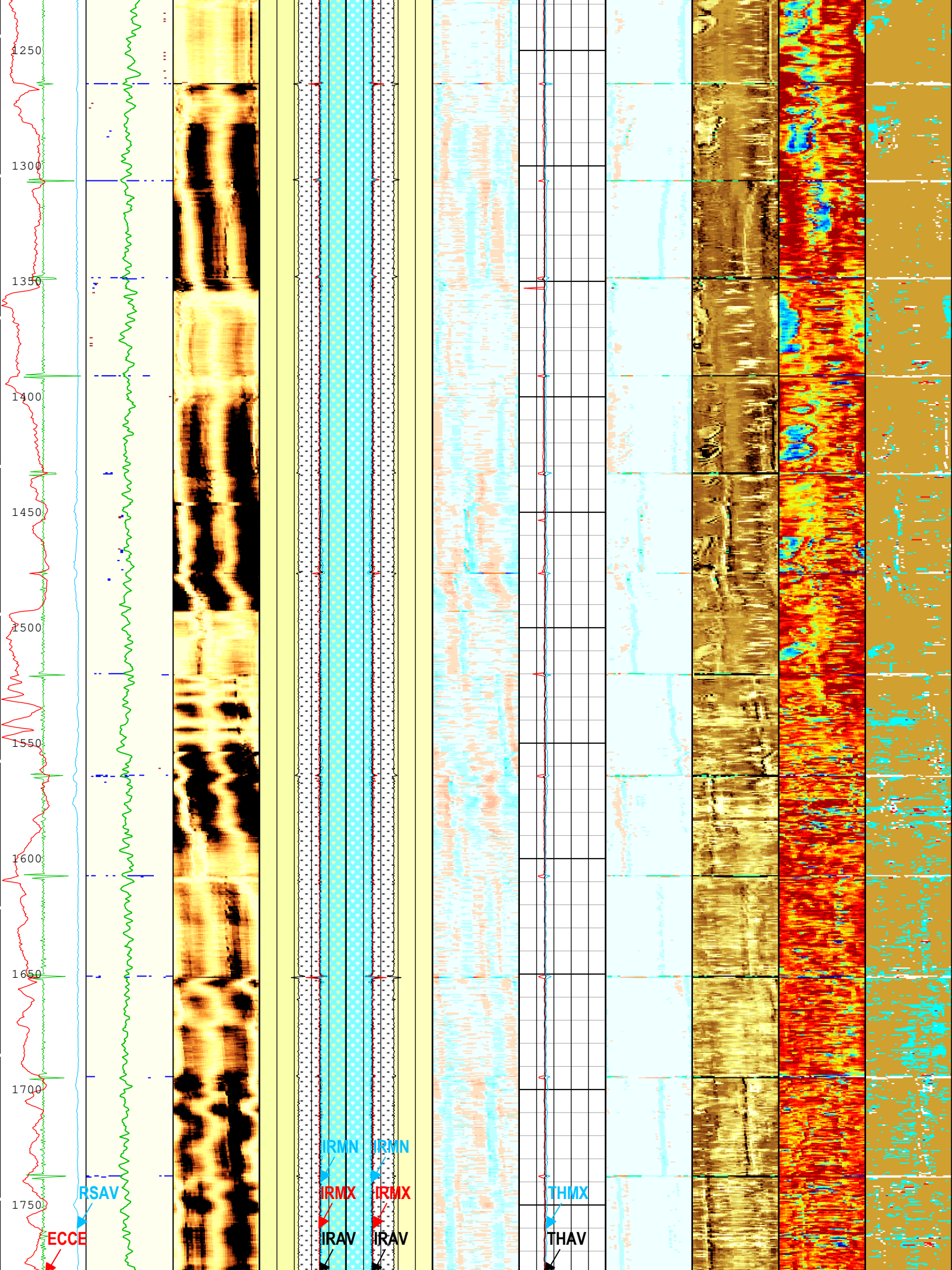
- 1 - UFLG 1 Value within [0.0 - 1.5] - :  UTIM Error
- 2 - UFLG 2 Value within [1.5 - 2.5] - :  Pulse Origin Not Detected
- 3 - UFLG 3 Value within [2.5 - 3.5] - :  WINLEN Error
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :  Casing Thickness Error
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5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

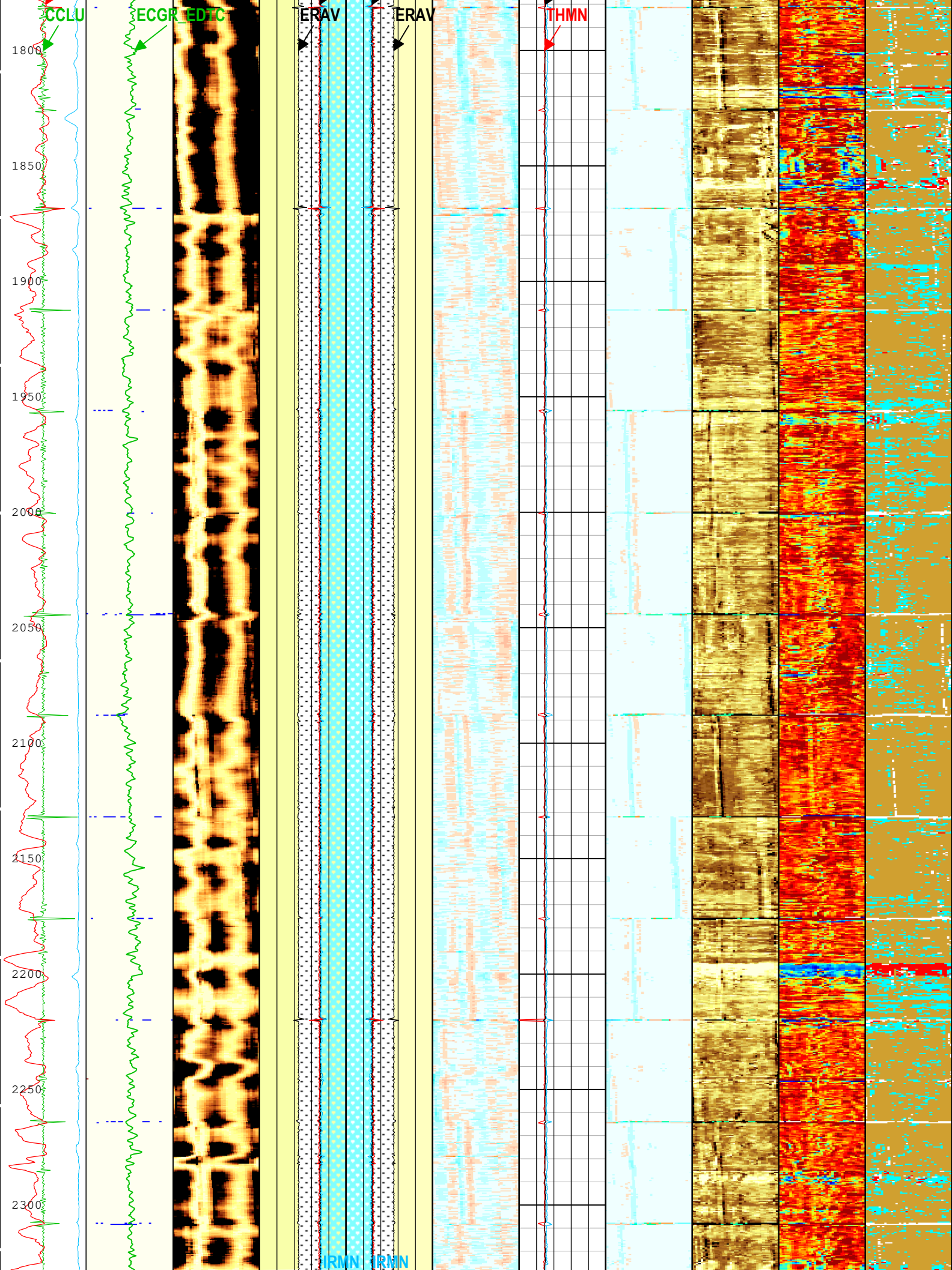
TIME\_1900 - Time Marked every 60.00 (s)



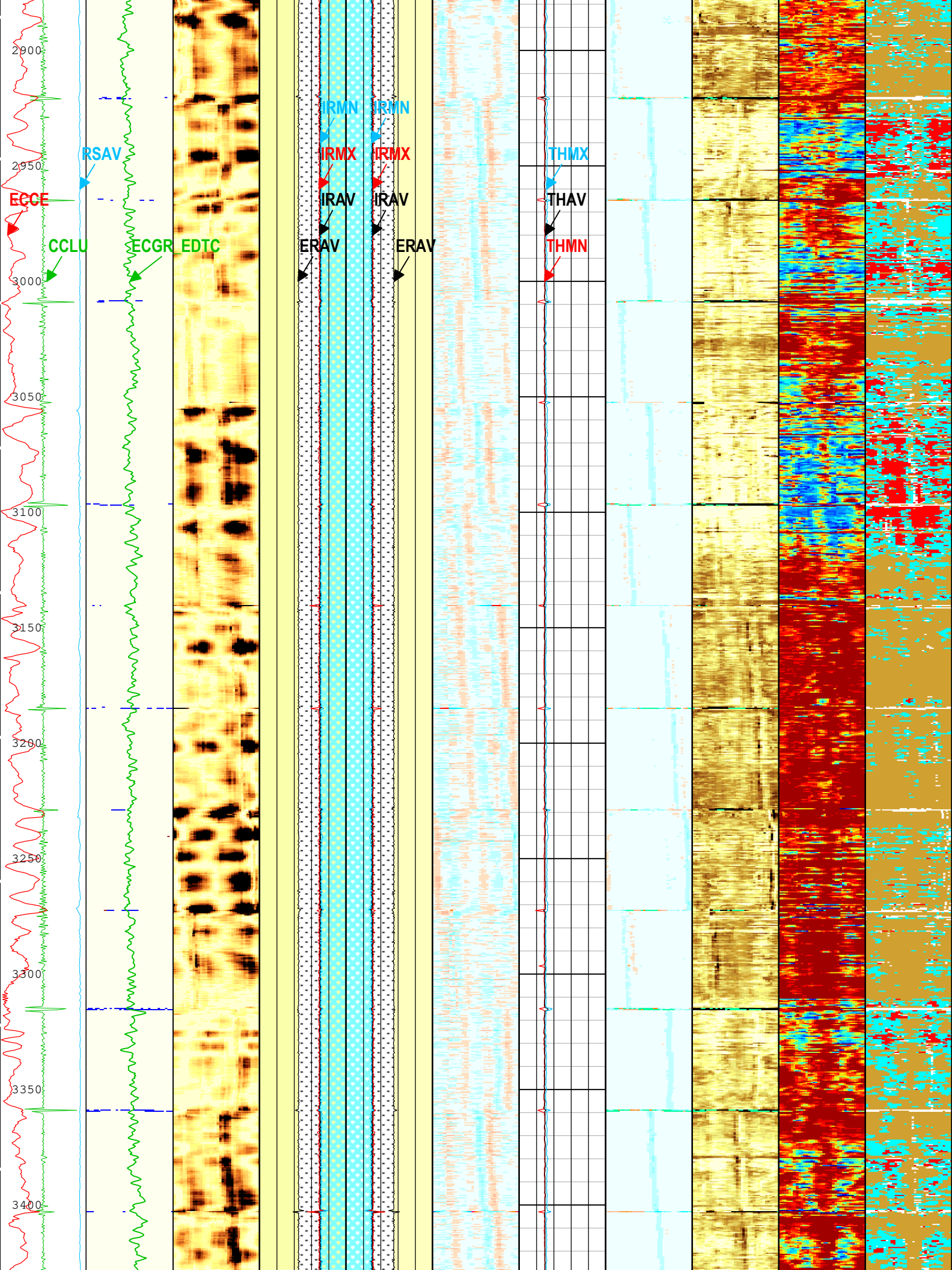


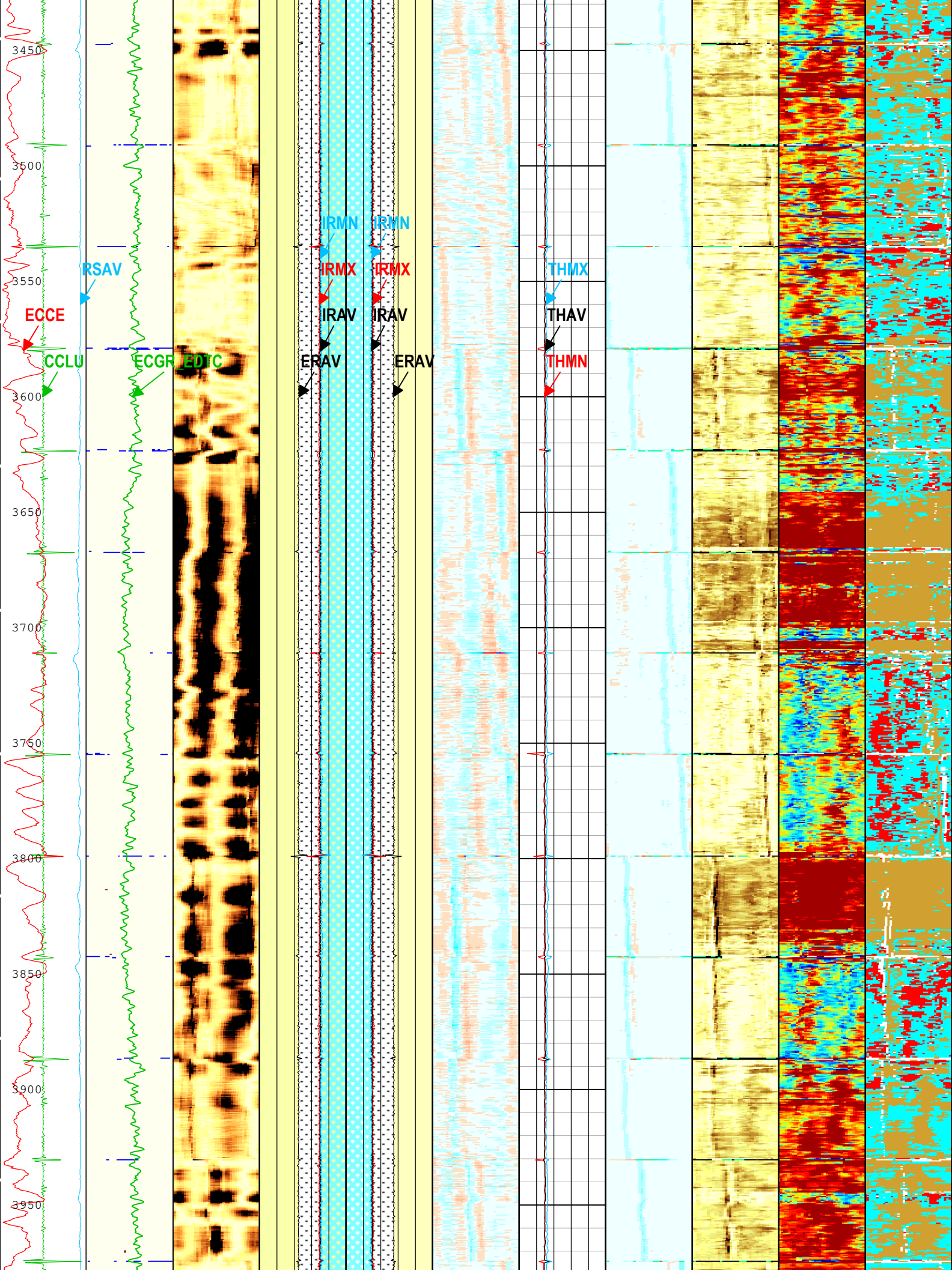


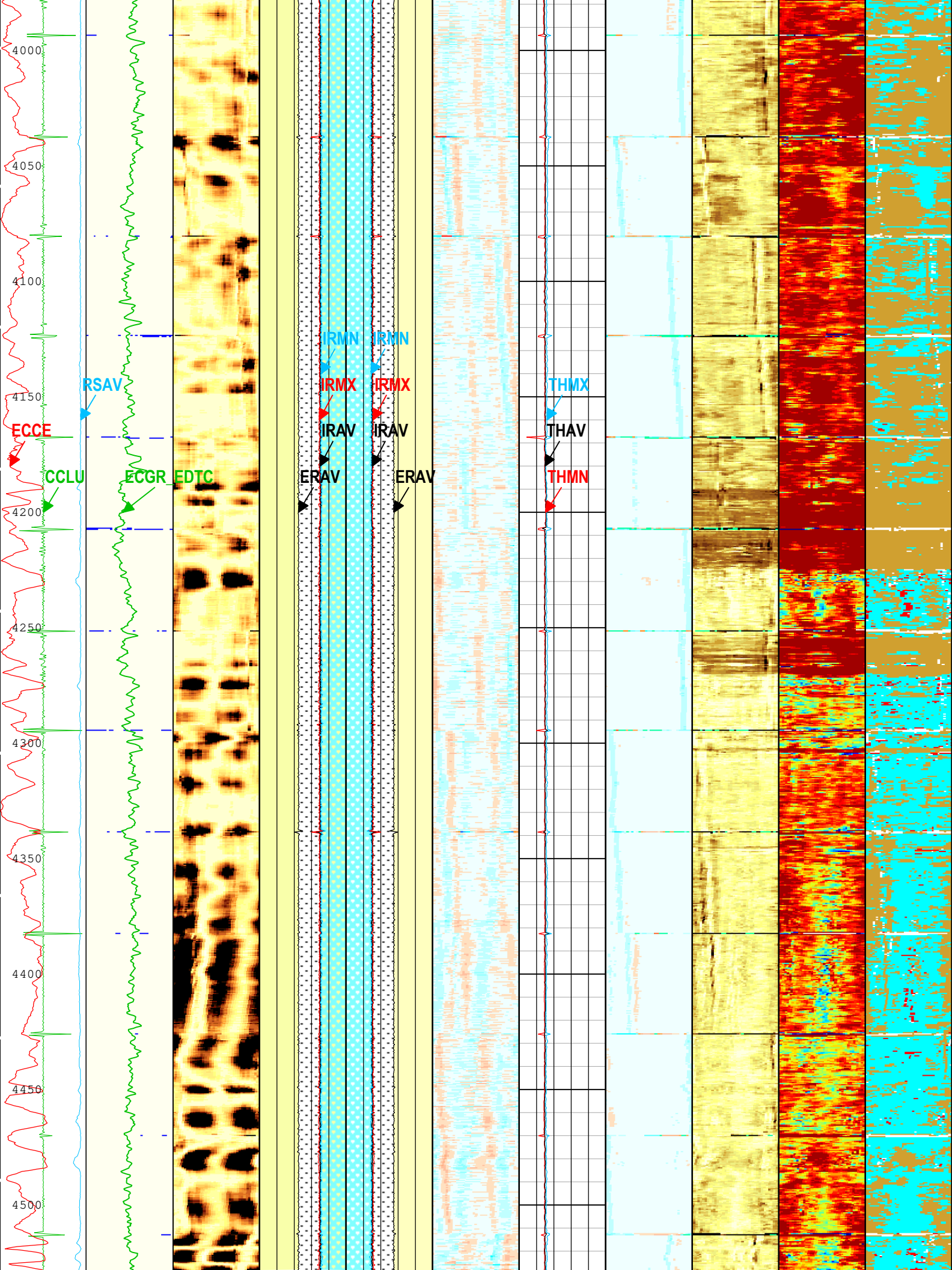


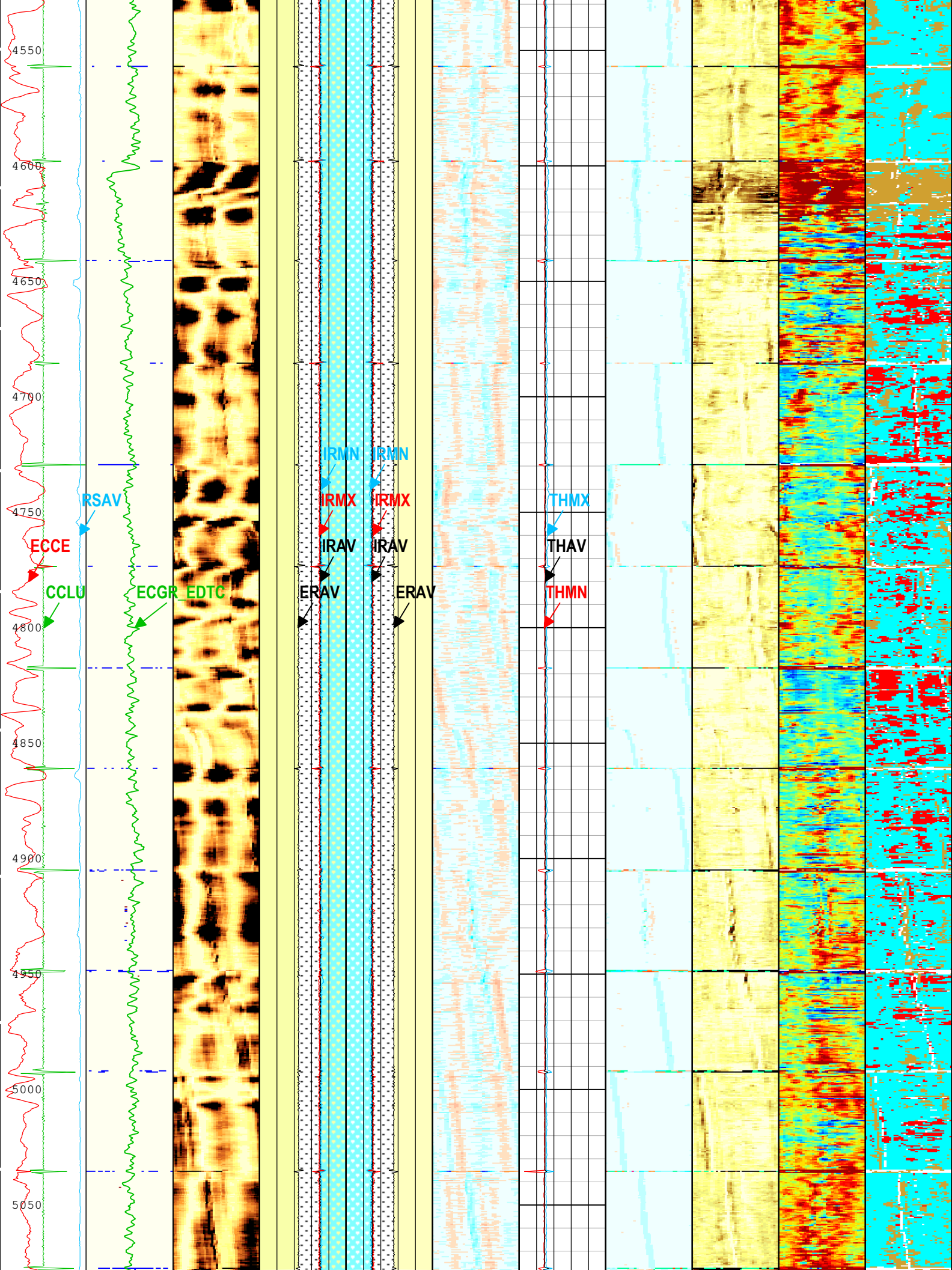


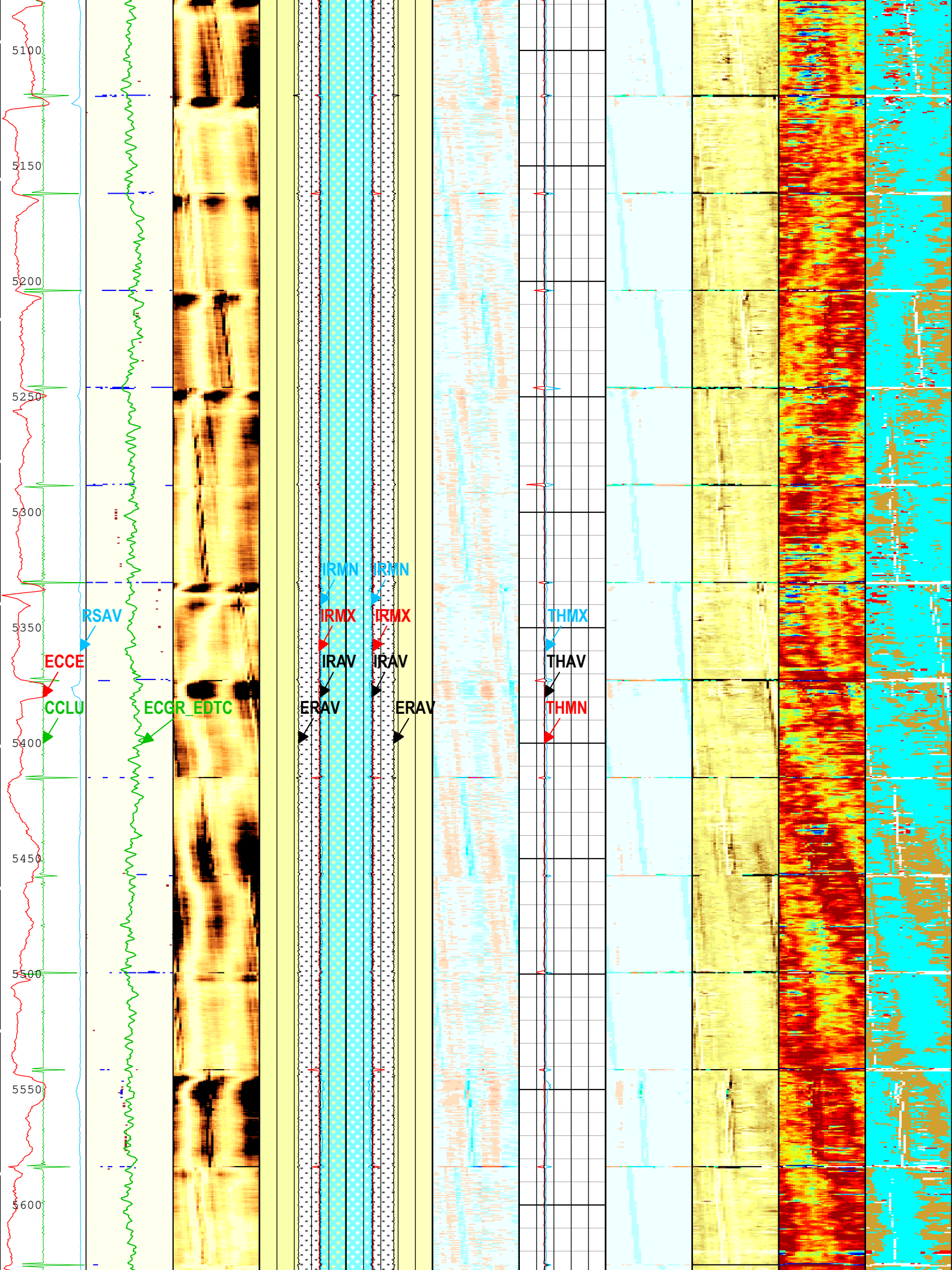


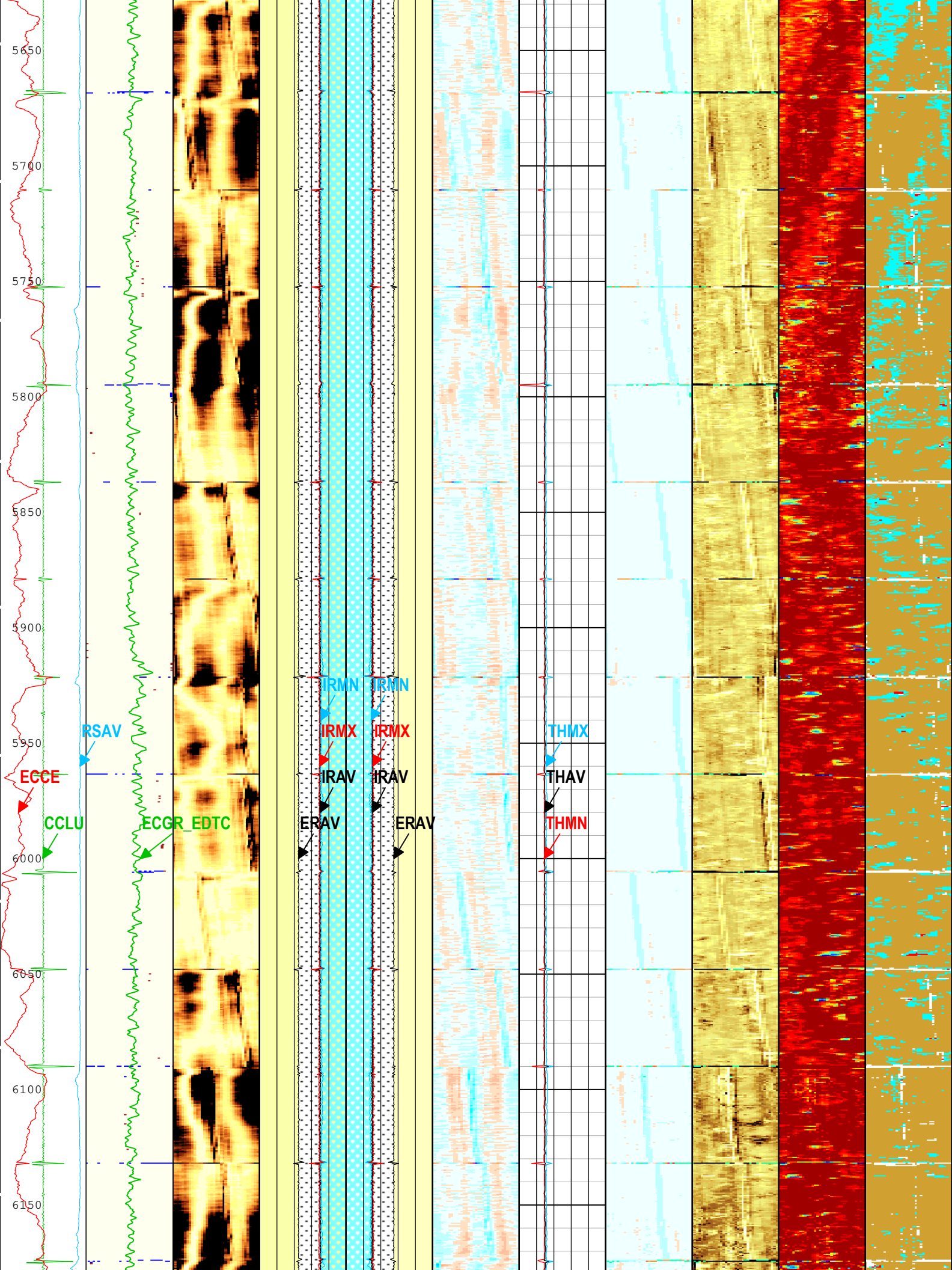


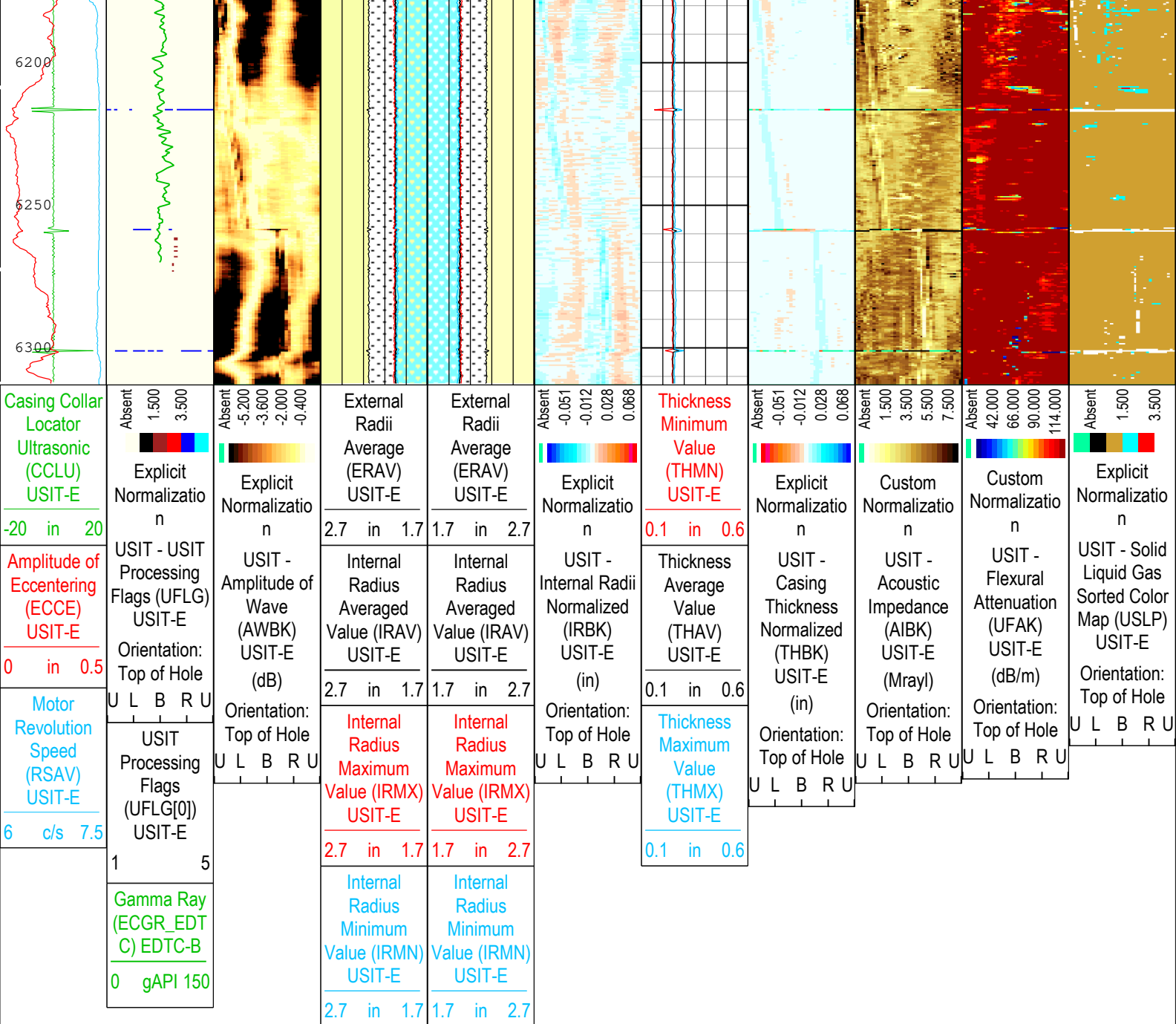












TIME\_1900 - Time Marked every 60.00 (s)

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

- 1 - UFLG 1 Value within [0.0 - 1.5] - :  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 4.5IN ) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth  
 Creation Date: 31-Oct-2023 11:56:01

## Channel Processing Parameters

### R1D1: 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	7755	ft
CDEN	Cement Density	USIT-E	1.68	g/cm3

CDEN	Cement Density	USIT-E	1.00	g/cm3
CDEN	Cement Density	EDTC-B	2	g/cm3
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular 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	1.01	g/cm3
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_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	Theoretical	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.5	us
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.15	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	120	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	80	%
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.5	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-15	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	ThirdInterfaceEcho	
ZMUD	Acoustic Impedance of Mud	Borehole	1.48	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	12.25	0	675
BS	7.875	675	6313

All depth are actual.

## Tool Control Parameters

### R1D1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	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	
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 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	

## Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
EMXV	7	31-Oct-2023 09:17:35	31-Oct-2023 09:26:23	6314.01	6184.02
EMXV	8	31-Oct-2023 09:26:23	31-Oct-2023 09:46:59	6184.02	4908.53
EMXV	7	31-Oct-2023 09:46:59	31-Oct-2023 10:35:14	4908.53	1920.88

EMXV	6	31-Oct-2023 10:35:14	31-Oct-2023 10:46:31	1920.88	1212.22
EMXV	5	31-Oct-2023 10:46:31	31-Oct-2023 11:11:48	1212.22	34.29

All depth are at tool zero.

# R1D1

## Software Version

<b>Acquisition System</b>	<b>Version</b>
Maxwell 2023.0	13.0.221437.3100
Application Patch	Wireline_Hotfix-Mandatory-2023.0_13.0.224590
	Wireline_NPD-ThruBit-2023.0_13.0.225000

## Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
R1D1	Log[4]:Up	Up	34.29 ft	6314.01 ft	31-Oct-2023 9:17:35 AM	31-Oct-2023 11:11:48 AM	ON	3.09 ft	Yes

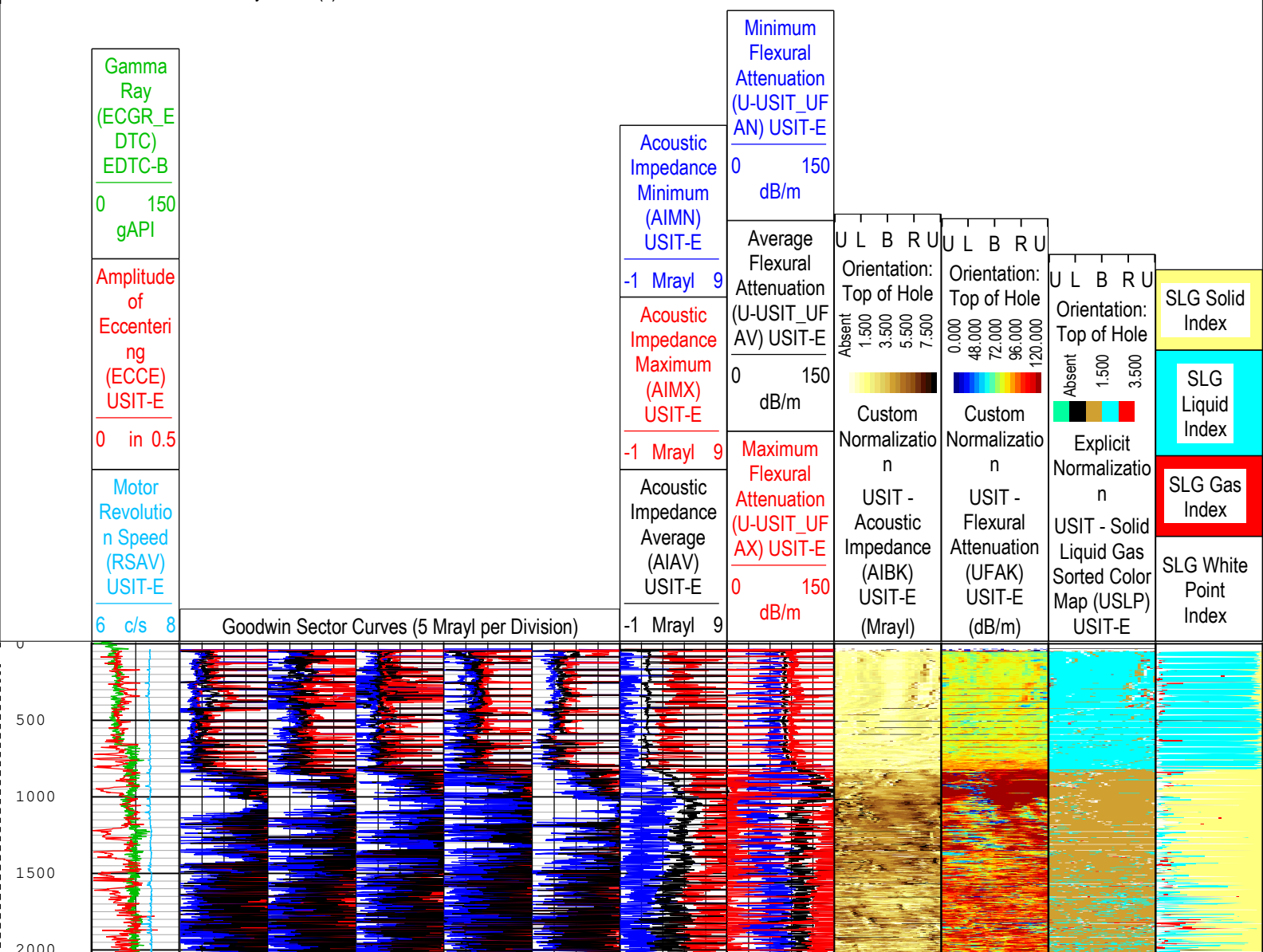
All depths are referenced to toolstring zero

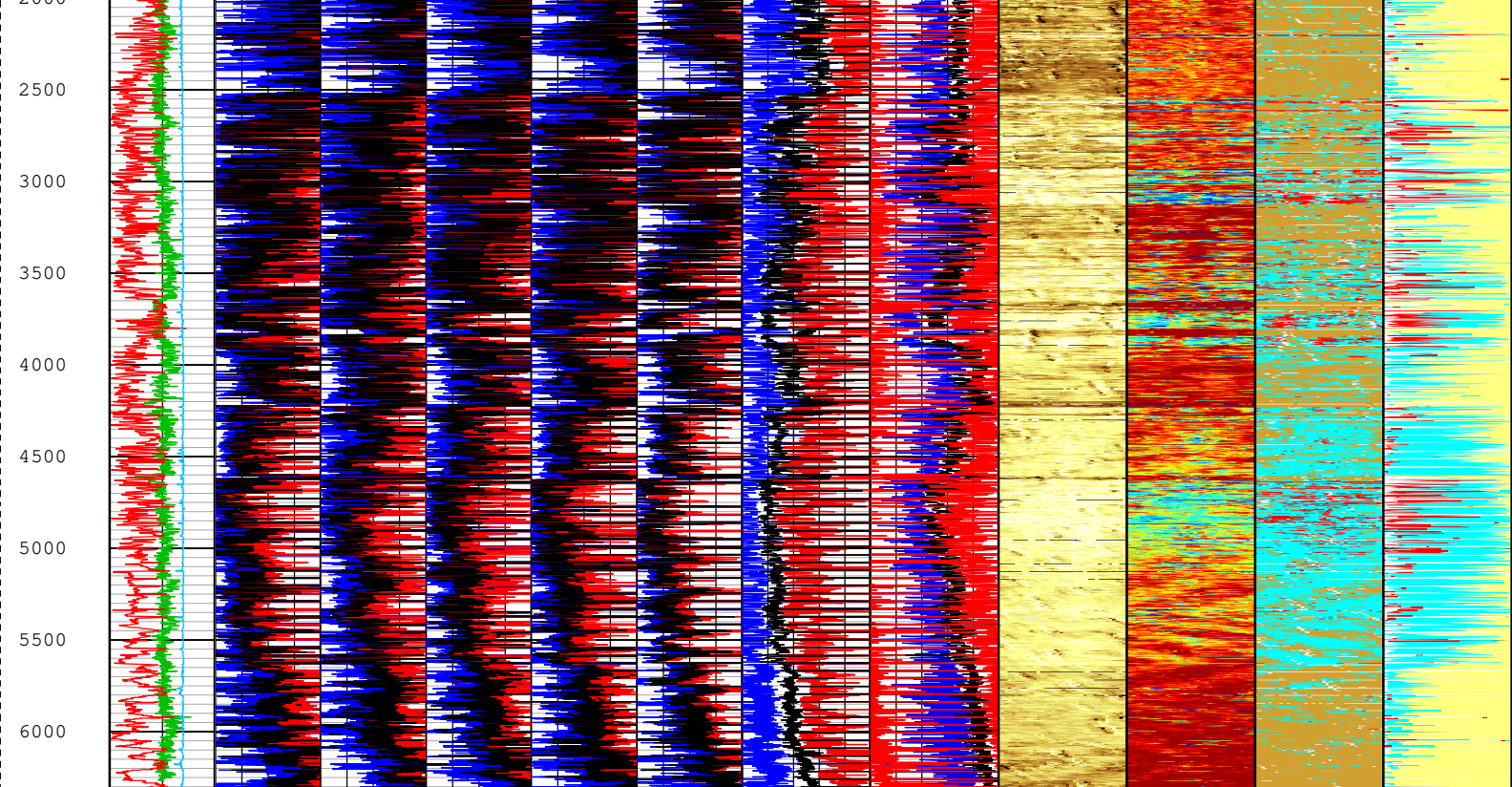
## Log

Company: Occidental Petroleum Corporation    Well: Burchfield State 23-16  
R1D1: Log[4]:Up:S007

Description: USI Goodwin    Format: Log (IBC Goodwin)    Index Scale: 0.1 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 31-Oct-2023 11:56:22

TIME\_1900 - Time Marked every 60.00 (s)





Gamma Ray (ECGR_E DTC) EDTC-B 0 150 gAPI	Goodwin Sector Curves (5 Mrayl per Division)	Acoustic Impedance Minimum (AIMN) USIT-E -1 Mrayl 9	Minimum Flexural Attenuation (U-USIT_UF AN) USIT-E 0 150 dB/m	Absent 1.500 3.500 5.500 7.500 Custom Normalization USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl) Orientation: Top of Hole U L B R U	0.000 48.000 72.000 96.000 120.000 Custom Normalizatio n USIT - Flexural Attenuation (UFAK) USIT-E (dB/m) Orientation: Top of Hole U L B R U	Absent 1.500 3.500 Explicit Normalizatio n USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E Orientation: Top of Hole U L B R U	SLG Solid Index
Amplitude of Eccenteri ng (ECCE) USIT-E 0 in 0.5		Acoustic Impedance Maximum (AIMX) USIT-E -1 Mrayl 9	Average Flexural Attenuation (U-USIT_UF AV) USIT-E 0 150 dB/m	USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl) Orientation: Top of Hole U L B R U	USIT - Flexural Attenuation (UFAK) USIT-E (dB/m) Orientation: Top of Hole U L B R U	USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E Orientation: Top of Hole U L B R U	SLG Liquid Index
Motor Revolutio n Speed (RSAV) USIT-E 6 c/s 8		Acoustic Impedance Average (AIAV) USIT-E -1 Mrayl 9	Maximum Flexural Attenuation (U-USIT_UF AX) USIT-E 0 150 dB/m				SLG Gas Index
							SLG White Point Index

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: 31-Oct-2023 11:56:22

## Channel Processing Parameters

### R1D1: 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	7755	ft
CDEN	Cement Density	USIT-E	1.68	g/cm3

IDEN	Cement Density	EDTC-B	2	g/cm3
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular 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	1.01	g/cm3
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_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	Theoretical	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.5	us
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.15	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	120	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	80	%
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.5	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-15	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	ThirdInterfaceEcho	
ZMUD	Acoustic Impedance of Mud	Borehole	1.48	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	12.25	0	675
BS	7.875	675	6313

All depth are actual.

## Tool Control Parameters

### R1D1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	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	
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 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	

## Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
EMXV	7	31-Oct-2023 09:17:35	31-Oct-2023 09:26:23	6314.01	6184.02
EMXV	8	31-Oct-2023 09:26:23	31-Oct-2023 09:46:59	6184.02	4908.53
EMXV	7	31-Oct-2023 09:46:59	31-Oct-2023 10:35:14	4908.53	1920.88
EMXV	6	31-Oct-2023 10:35:14	31-Oct-2023 10:46:31	1920.88	1212.22

EMXV	5	31-Oct-2023 10:46:31	31-Oct-2023 11:11:48	1212.22	34.29
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All depth are at tool zero.

# R1D1

# IBC SLG

## Software Version

<b>Acquisition System</b>	<b>Version</b>
Maxwell 2023.0	13.0.221437.3100
Application Patch	Wireline_Hotfix-Mandatory-2023.0_13.0.224590
	Wireline_NPD-ThruBit-2023.0_13.0.225000

## Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
R1D1	Log[3]:Up	Up	5978.28 ft	6314.25 ft	31-Oct-2023 9:08:49 AM	31-Oct-2023 9:15:08 AM	ON	2.61 ft	Yes

All depths are referenced to toolstring zero

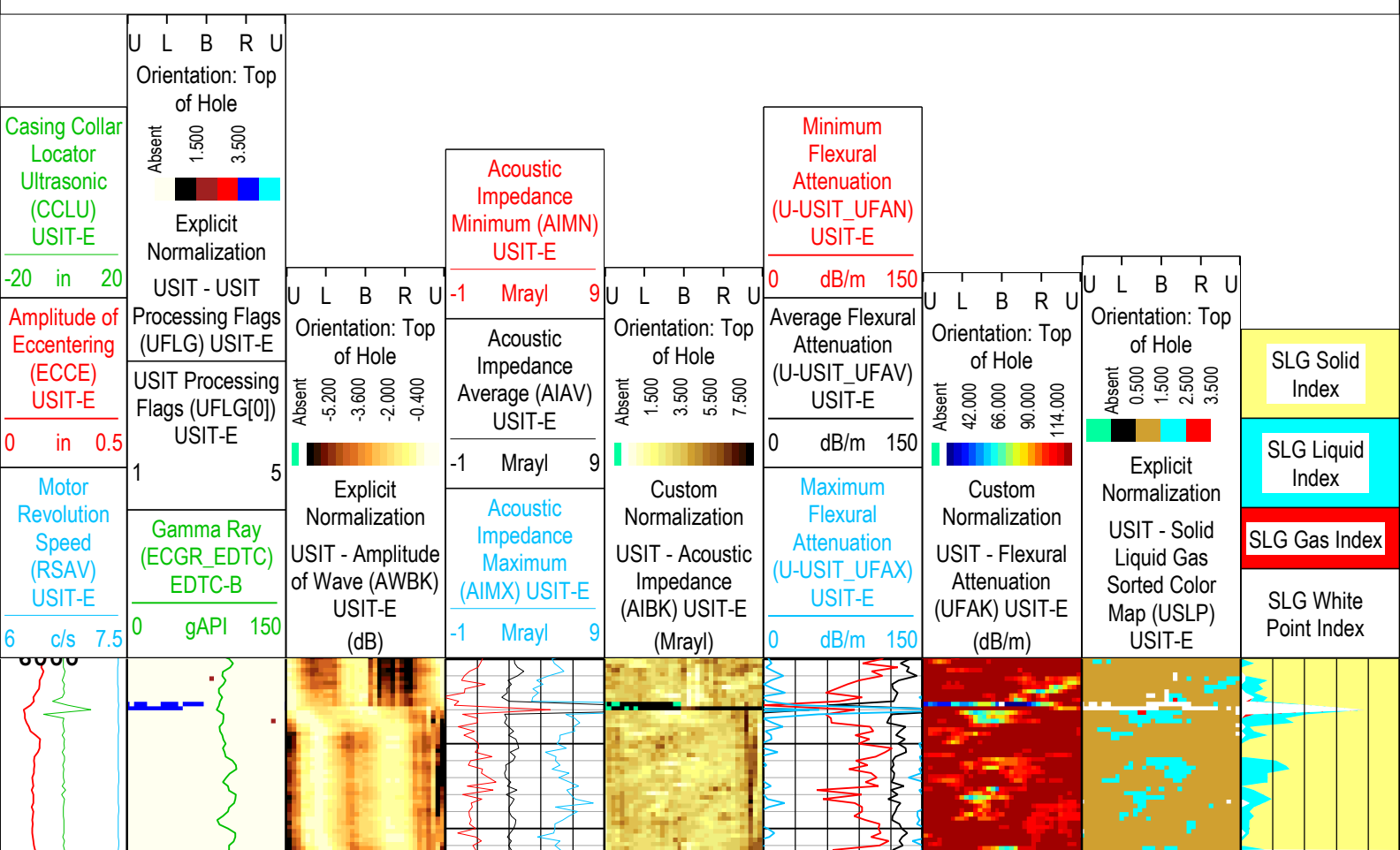
<b>Log</b>	Company: Occidental Petroleum Corporation    Well: Burchfield State 23-16
	R1D1: Log[3]:Up:S007

Description: USI IBC SLG    Format: Log ( IBC SLG )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 31-Oct-2023 11:56:32

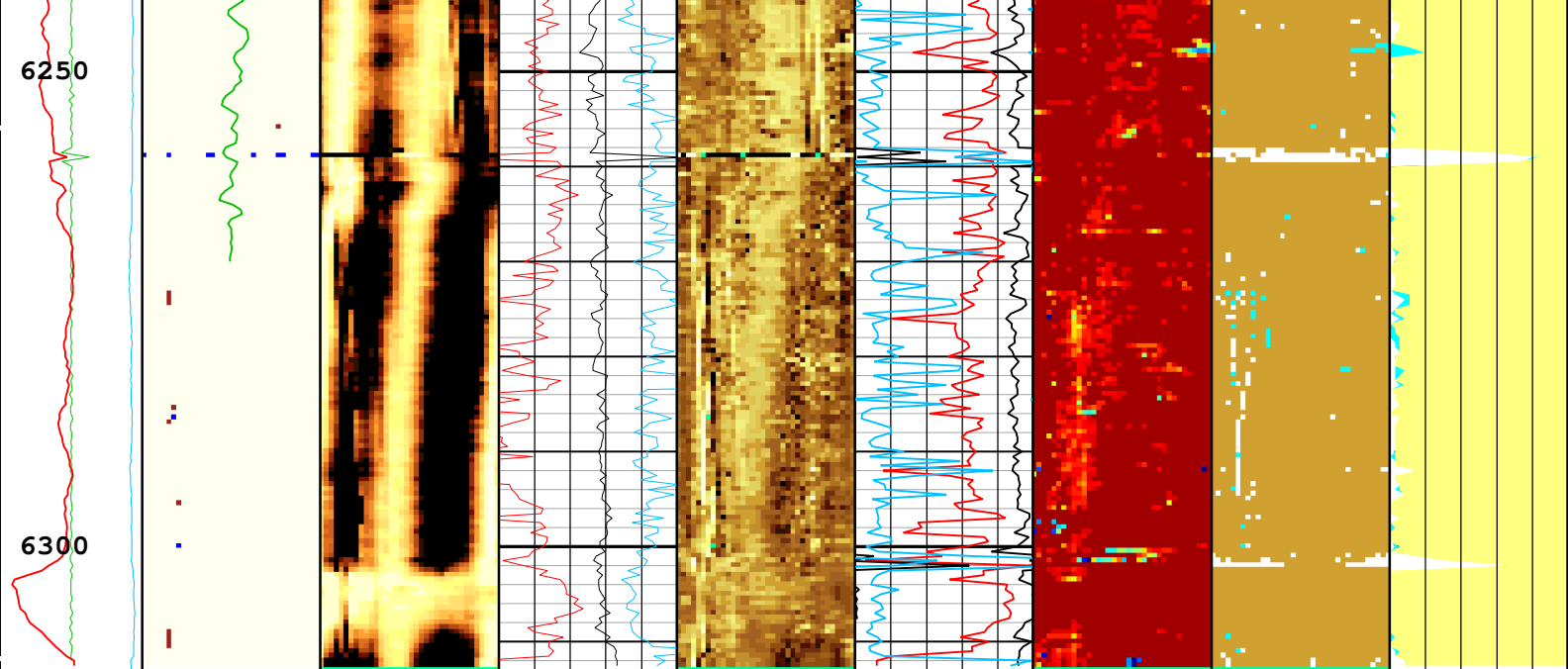
TIME\_1900 - Time Marked every 60.00 (s)

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

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







<b>Casing Collar Locator (CCLU) USIT-E</b> -20 in 20	Absent 1.500 3.500 Explicit Normalization USIT - USIT Processing Flags (UFLG) USIT-E Orientation: Top of Hole U L B R U	Absent -5.200 -3.600 -2.000 -0.400 Explicit Normalization USIT - Amplitude of Wave (AWBK) USIT-E (dB) Orientation: Top of Hole U L B R U	<b>Acoustic Impedance Minimum (AIMN) USIT-E</b> -1 Mrayl 9 Acoustic Impedance Average (AIAV) USIT-E -1 Mrayl 9 <b>Acoustic Impedance Maximum (AIMX) USIT-E</b> -1 Mrayl 9	Absent 1.500 3.500 5.500 7.500 Custom Normalization USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl) Orientation: Top of Hole U L B R U	<b>Minimum Flexural Attenuation (U-USIT_UFAN) USIT-E</b> 0 dB/m 150 Average Flexural Attenuation (U-USIT_UFAV) USIT-E 0 dB/m 150 <b>Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E</b> 0 dB/m 150	Absent 42.000 66.000 90.000 114.000 Custom Normalization USIT - Flexural Attenuation (UFAK) USIT-E (dB/m) Orientation: Top of Hole U L B R U	Absent 0.500 1.500 2.500 3.500 Explicit Normalization USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E Orientation: Top of Hole U L B R U	SLG Solid Index SLG Liquid Index SLG Gas Index SLG White Point Index
<b>Amplitude of Eccentering (ECCE) USIT-E</b> 0 in 0.5	USIT Processing Flags (UFLG[0]) USIT-E 1 5 <b>Gamma Ray (ECGR_EDTC) EDTC-B</b> 0 gAPI 150							
<b>Motor Revolution Speed (RSAV) USIT-E</b> 6 c/s 7.5								

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: 31-Oct-2023 11:56:32

Channel Processing Parameters				
R1D1: Parameters				
Parameter	Description	Tool	Value	Unit
BAR(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BERJ	Bad Echo Rejection	USIT-E	On	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	7.875	in

CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson Ratio	
CBLO	Casing Bottom (Logger)	WLSESSION	7755	ft
CDEN	Cement Density	USIT-E	1.68	g/cm3
CDEN	Cement Density	EDTC-B	2	g/cm3
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular 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	1.01	g/cm3
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	0	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	Theoretical	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.5	us
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.15	
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
RPLUS_PROCESS	Ultrasonic R+ Processing	USIT-E	No	
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	120	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	80	%
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.5	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-15	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	ThirdInterfaceEcho	
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	1.48	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

### R1D1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	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	
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 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	

## Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
EMXV	5	31-Oct-2023 09:08:49	31-Oct-2023 09:10:27	6314.25	6229.19
EMXV	7	31-Oct-2023 09:10:27	31-Oct-2023 09:15:08	6229.19	5978.28

All depth are at tool zero.

# R1D1

## Software Version

Acquisition System	Version
Maxwell 2023.0	13.0.221437.3100
Application Patch	Wireline_Hotfix-Mandatory-2023.0_13.0.224590 Wireline_NPD-ThruBit-2023.0_13.0.225000

## Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
R1D1	Log[3]:Up	Up	5978.28 ft	6314.25 ft	31-Oct-2023 9:08:49 AM	31-Oct-2023 9:15:08 AM	ON	2.61 ft	Yes

All depths are referenced to toolstring zero

## Log

Company: Occidental Petroleum Corporation    Well: Burchfield State 23-16  
R1D1: Log[3]:Up:S007

Description: USI IBC SLG Composite    Format: Log ( IBC SLG Composite 4.5IN )    Index Scale: 2 in per 100 ft    Index Unit: ft    Index Type: Measured Depth  
Creation Date: 31-Oct-2023 11:56:38


- 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)

U L B R U

Orientation:  
Top of Hole

Absent  
1.500    3.500

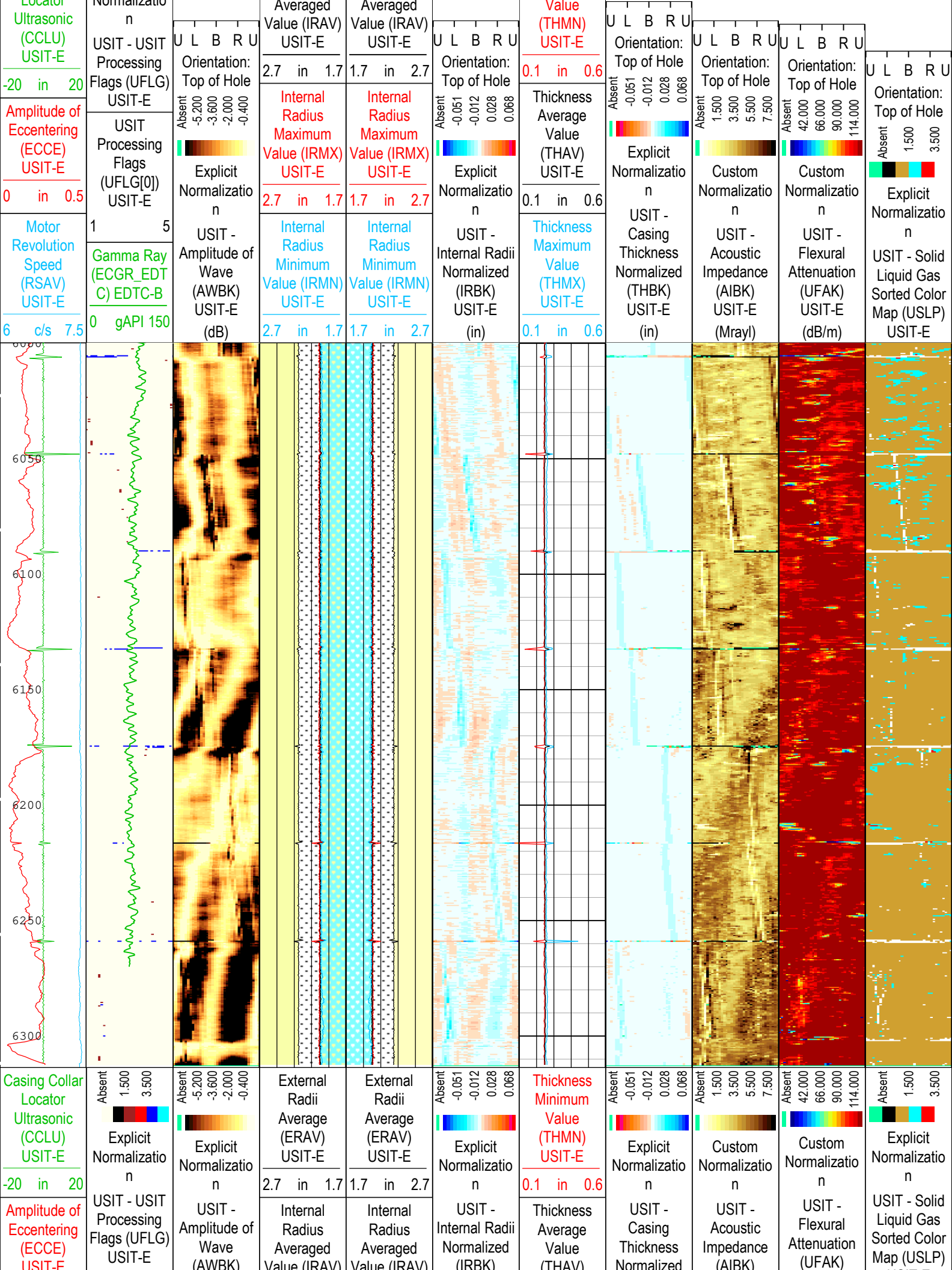


Explicit  
Normalization

External Radii Average (ERAV) USIT-E	External Radii Average (ERAV) USIT-E
2.7 in 1.7	1.7 in 2.7

Internal Radius	Internal Radius
-----------------	-----------------

Thickness  
Minimum



USIT-E 0 in 0.5	Orientation: Top of Hole U L B R U	USIT-E (dB) 2.7 in 1.7	USIT-E (dB) 1.7 in 2.7	USIT-E (in) Orientation: Top of Hole U L B R U	USIT-E (THMX) 0.1 in 0.6 Thickness Maximum Value (THMX) USIT-E	USIT-E (Mrayl) Orientation: Top of Hole U L B R U	USIT-E (dB/m) Orientation: Top of Hole U L B R U	USIT-E Orientation: Top of Hole U L B R U
Motor Revolution Speed (RSAV) USIT-E 6 c/s 7.5	USIT Processing Flags (UFLG[0]) USIT-E 1 5	Internal Radius Maximum Value (IRMX) USIT-E 2.7 in 1.7	Internal Radius Maximum Value (IRMX) USIT-E 1.7 in 2.7					
	Gamma Ray (ECGR_EDT C) EDTC-B 0 gAPI 150	Internal Radius Minimum Value (IRMN) USIT-E 2.7 in 1.7	Internal Radius Minimum Value (IRMN) USIT-E 1.7 in 2.7					

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 4.5IN ) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth  
 Creation Date: 31-Oct-2023 11:56:38

## Channel Processing Parameters

### R1D1: 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	7.875	in
CBLO	Casing Bottom (Logger)	WLSESSION	7755	ft
CDEN	Cement Density	USIT-E	1.68	g/cm3
CDEN	Cement Density	EDTC-B	2	g/cm3
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular 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	1.01	g/cm3
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_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	Theoretical	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.5	us
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.15	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	120	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	80	%
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.5	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-15	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	

U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	ThirdInterfaceEcho	
ZMUD	Acoustic Impedance of Mud	Borehole	1.48	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

### R1D1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	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	
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 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	

### Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
EMXV	5	31-Oct-2023 09:08:49	31-Oct-2023 09:10:27	6314.25	6229.19
EMXV	7	31-Oct-2023 09:10:27	31-Oct-2023 09:15:08	6229.19	5978.28

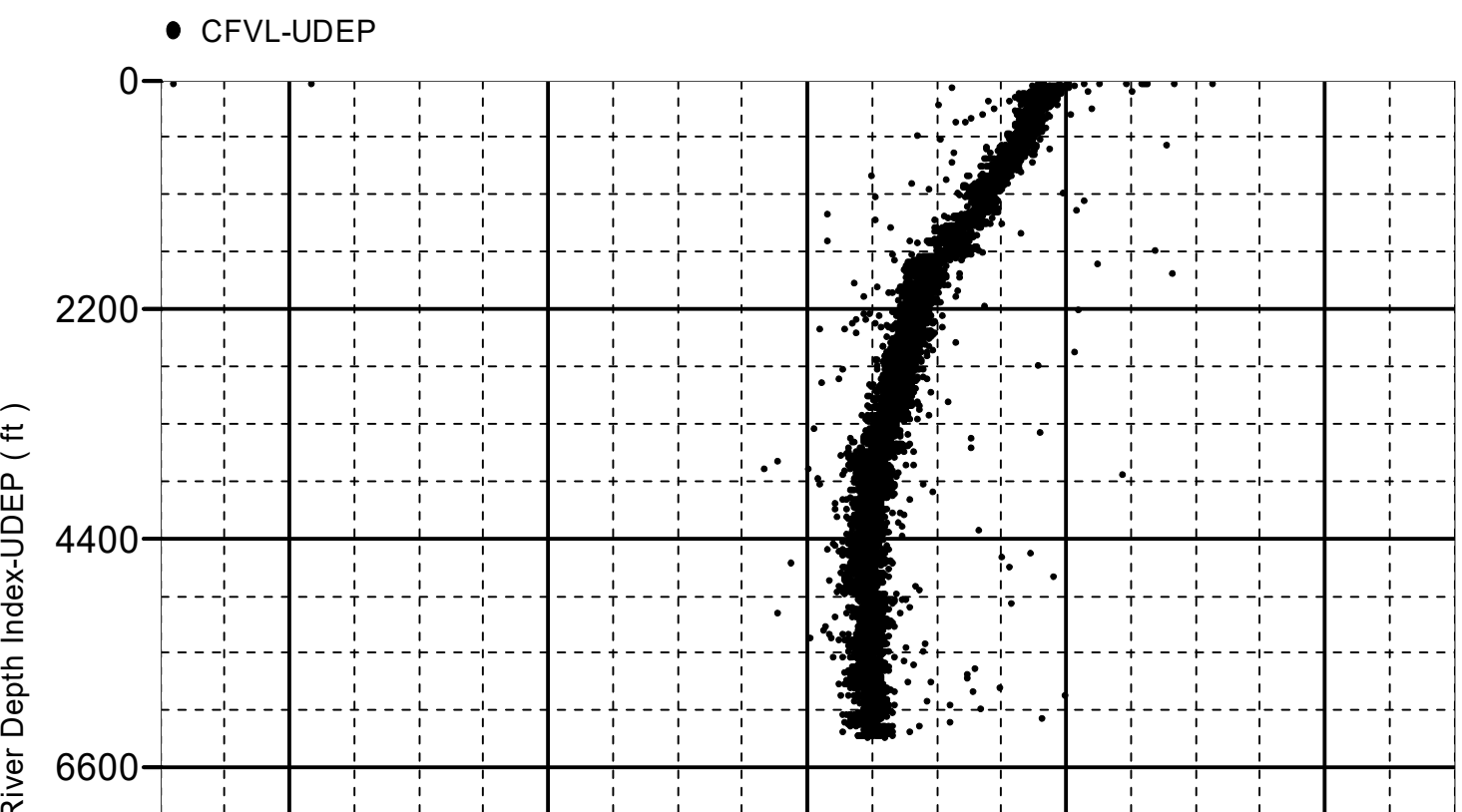
All depth are at tool zero.

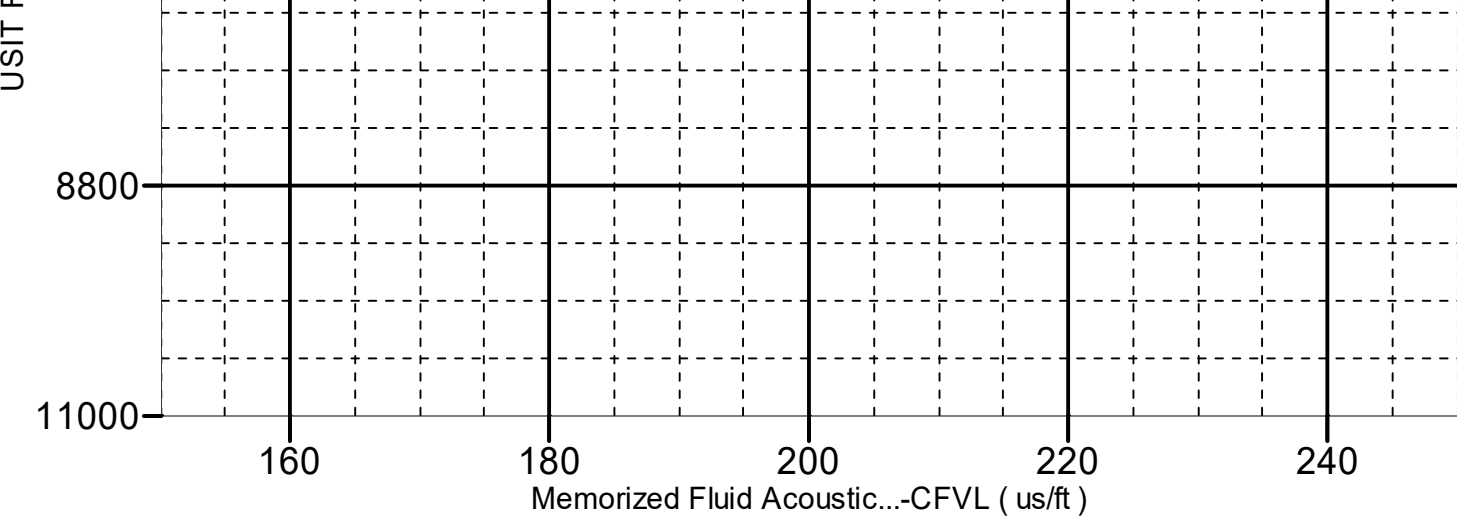
**XYZ** Company:Occidental Petroleum Corporation Well:Burchfield State 23-16 R1D1: Log[4]:Up:S007

# Fluid Acoustic Slowness vs Depth

## 2D Cross Plot

Index Range: From 6313.00 to 33.50 ft





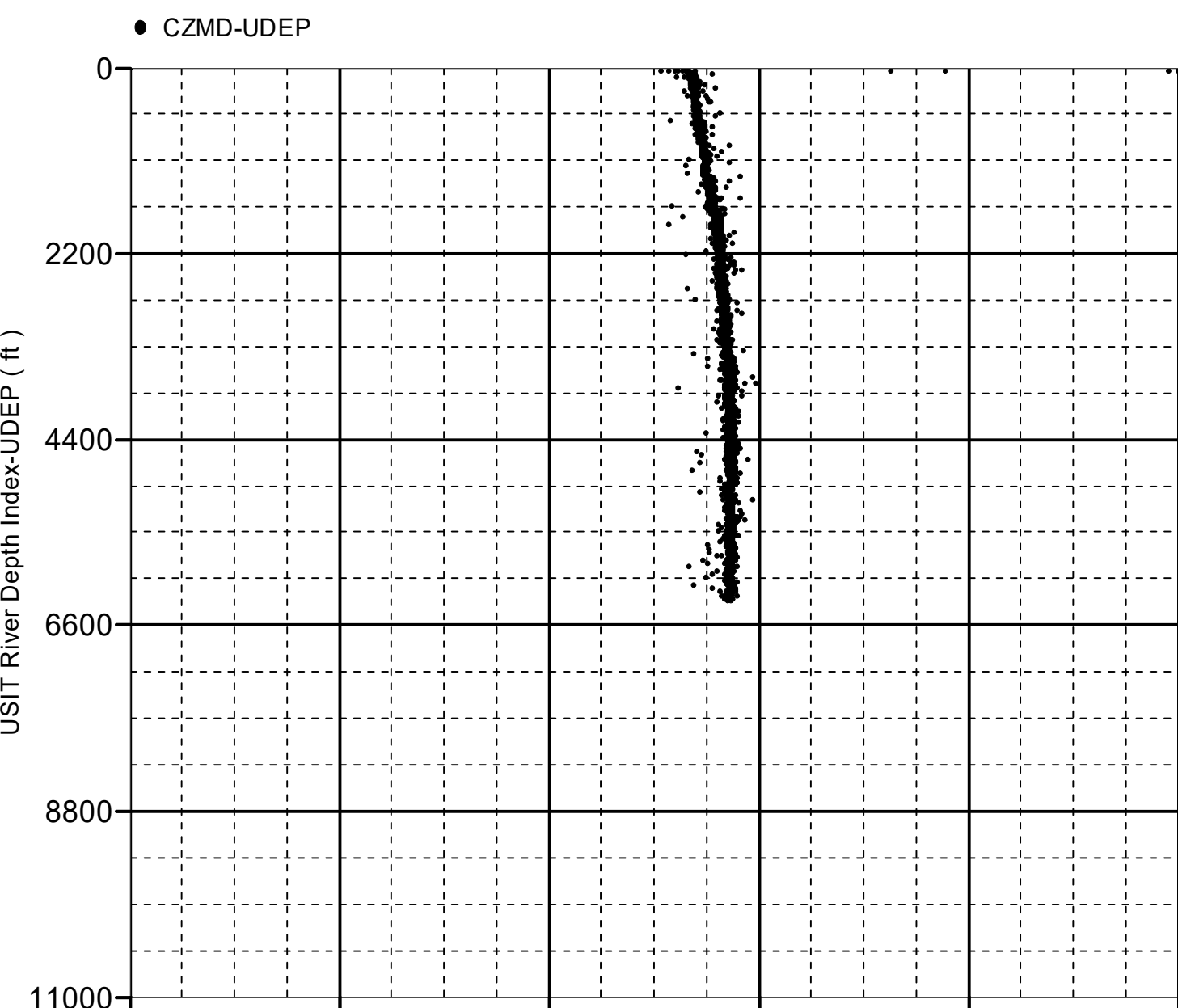
XYZ

Company:Occidental Petroleum Corporation Well:Burchfield State 23-16  
R1D1: Log[4]:Up:S007

# Acoustic Impedance of Mud vs Depth

## 2D Cross Plot

Index Range: From 6313.00 to 33.50 ft



0.0

0.6

1.2

1.8

2.4

3.0

Acoustic Impedance of Mu...-CZMD ( Mrayl )

Company: Occidental Petroleum Corporation



Well: Burchfield State 23-16

Field: Wattenberg

County: Weld

State: Colorado

Isolation Scanner

Cement Evaluation

Gamma Ray - CCL Log