

Company: Occidental Petroleum Inc

Well: Cooley 13-16

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner
Cement Bond Log
Gamma Ray - CCL

County: Weld
Field: Wattenberg
Location: SWSW Sec 16, T2N, R68W
Well: Cooley 13-16
Company: Occidental Petroleum Inc

Location:		SWSW Sec 16, T2N, R68W		Elev.: K.B. 4899.00 ft	
Permanent Datum:		SHL: 968' FSL X 1156' FWL		G.L. 4885.00 ft	
Log Measured From:		Ground Level		Elev.: 14.00 ft	
Drilling Measured From:		Kelly Bushing		above Perm. Datum	
API Serial No.		Section: 16		Township: 2N	
05-123-32278-0000				Range: 68W	

Logging Date	20-Oct-2021
Run Number	One
Depth Driller	7673.00 ft
Schlumberger Depth	7673.00 ft
Bottom Log Interval	7140.00 ft
Top Log Interval	50.00 ft
Casing Fluid Type	Water
Salinity	
Density	9 lbn/gal
Fluid Level	8.00 ft
BIT/CASING/TUBING STRING	
Bit Size	7.88 in
From	955.00 ft
To	7673.00 ft
Casing/Tubing Size	4.5 in
Weight	11.6 lbn/ft
Grade	JK70
From	0.00 ft
To	7673.00 ft
Max Recorded Temperatures	200 degF
Logger on Bottom	20-Oct-2021
Time	08:45:00
Unit Number	2801
Location:	Ft Morgan
Recorded By	Avery Becker
Witnessed By	Kelly Wieser

Disclaimer

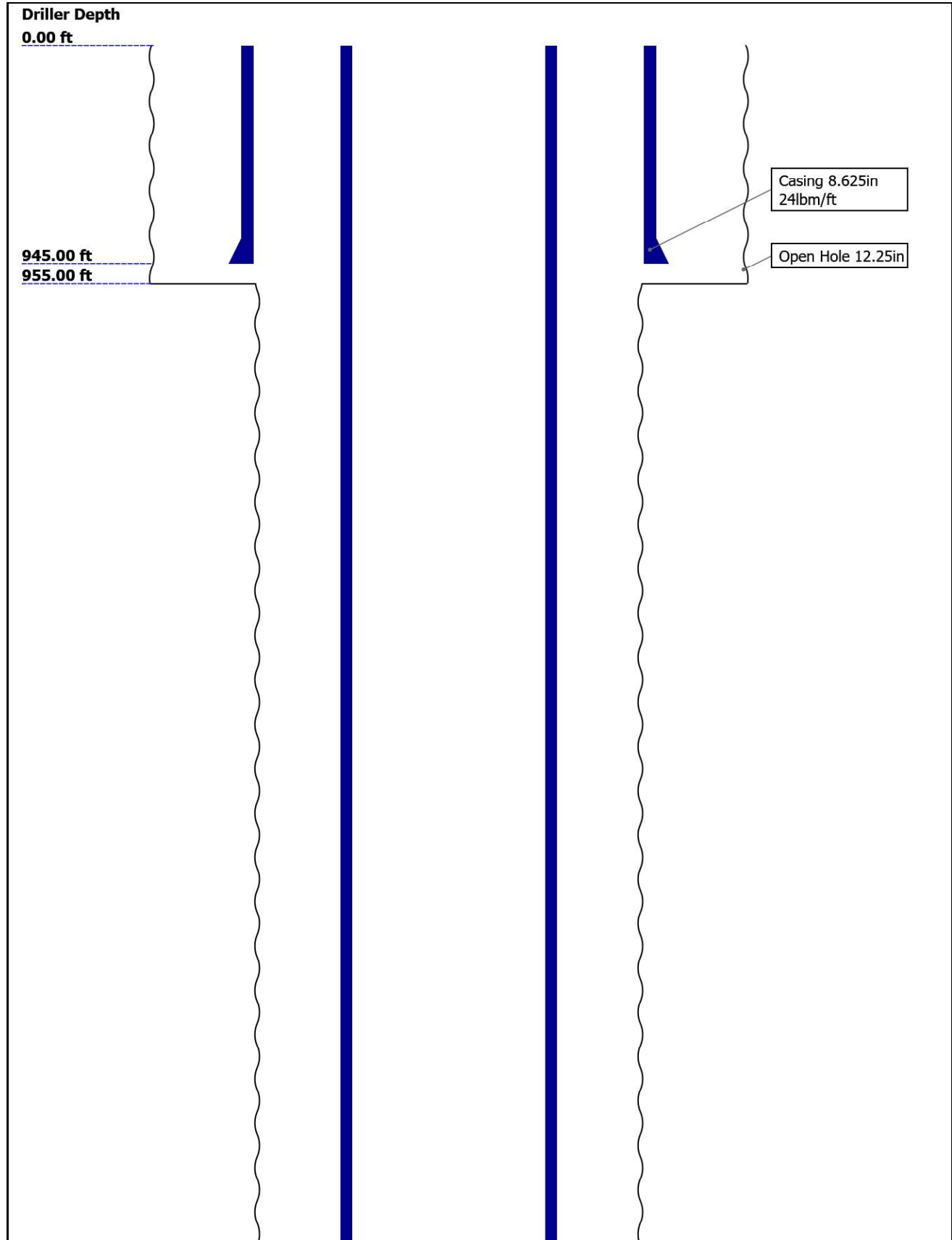
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (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.

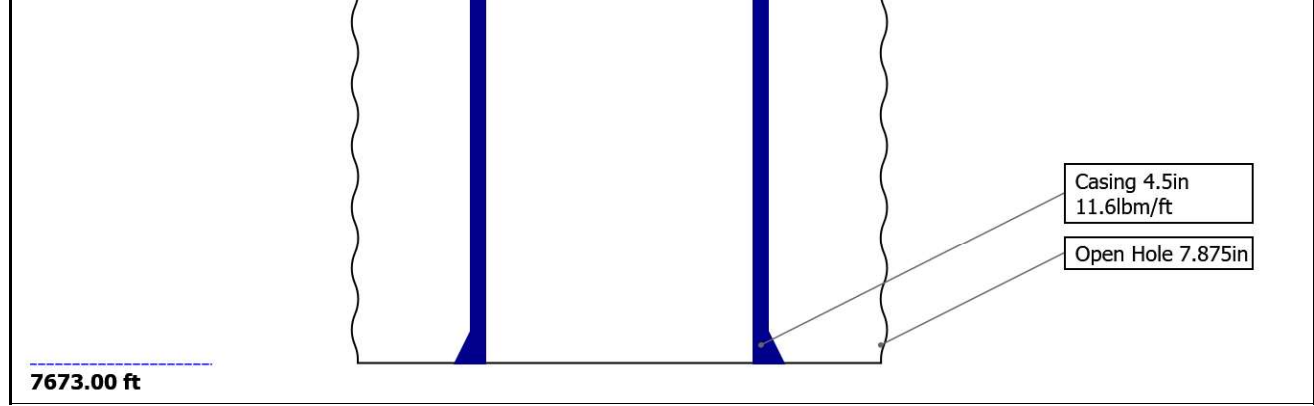
Contents

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 Main Pass
 - 9.1 Integration Summary
 - 9.2 Software Version
 - 9.3 Composite Summary
 - 9.4 Log (IBC SLG CBL DCBL-VDL)
 - 9.5 Parameter Listing
10. One Repeat Pass
 - 10.1 Integration Summary
 - 10.2 Software Version

- 10.3 Composite Summary
- 10.4 Log (IBC SLG CBL DCBL-VDL)
- 10.5 Parameter Listing
- 11. XYZ (IBC Fluid Acoustic Slowness vs Depth 6.0 in)
- 12. XYZ (IBC Acoustic Impedance of Mud vs Depth 6.0 in)
- 13. Tail

Well Sketch





Borehole Size/Casing/Tubing Record

Bit					
Bit Size (in)	12.25	7.875			
Top Driller (ft)	0	955			
Top Logger (ft)	0	955			
Bottom Driller (ft)	955	7673			
Bottom Logger (ft)	955	7673			
Casing					
Size (in)	8.625	4.5			
Weight (lbm/ft)	24	11.6			
Inner Diameter (in)	8.097	4			
Grade	N/A	JK70			
Top Driller (ft)	0	0			
Top Logger (ft)	0	0			
Bottom Driller (ft)	945	7673			
Bottom Logger (ft)	945	7673			

Remarks and Equipment Summary

One: Toolstring

One: Remarks

Equip name length
LEH-QT 54.87
LEH-QT

MP name Offset

Tool was run as per tool sketch

All logging intervals as per client request

Log recorded in 10 deg, 6 inch resolution

No surface induced pressure applied while logging

EDTC-B: 51.38
9301

EDTH-B:
8442

EDTG-A
EDTC-B:
9301

CTEM 47.88

ACCZ 0.00

HV 0.00

Gamm 46.01

a Ray

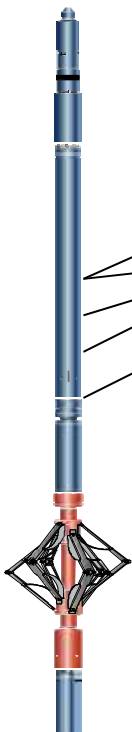
TelSta 44.88

tus

AH-184 44.88
[2]

CME-AF 42.88
[2]:330
8

ASLT-B: 39.08
8073
ASI T-RR



CBL_U 32.55
P
VDL_U 31.55
P
RX_AR 30.05
RAY
VDL_L 28.55
OW
DT_DD 28.05
BHC
CBL_L 27.55
OW

CME-AF 24.43
[1]

AH-107 20.64
:3897

AH-184 18.64
[1]

USIT-E:9 16.64
00

ECH-MFA
:1818
USAC-A:
900
USIS-A:9
02
USSC-B
IBCS-A:7
98
FAR-SEN
SOR:976
ICE-GB
NEAR-SE
NSOR:93
5
ICE-GB
USI-SEN
SOR:4434
ICE-TX
EMITTER
-SENSOR
:1716
ICE-GB

USI Se 0.84
nsor
Head T
ension
TOOL_ZERO

Lengths are in ft
Maximum Outer Diameter = 3.800 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

One

Depth Measuring Device

Type IDW-B
Serial Number 5744

Calibration Date	22-Sep-2021		
Calibrator Serial Number	57		
Calibration Cable Type	7-46A-XS		
Wheel Correction 1	-9		
Wheel Correction 2	-7		

Tension Device

Type	CMTD-B/A		
Serial Number	5036		
Calibration Date	03-Oct-2021		
Calibrator Serial Number	57		
Number of Calibration Points	10		
Calibration Root Mean Square Error	21		
Calibration Peak Error	37		

Logging Cable

Type	7-46A-XS		
Serial Number	1234		
Length	30000.00 ft		
Conveyance Type	Wireline		
Rig Type			

One:Depth Control Parameters **Depth Control Remarks**

Log Sequence	First Log In the Well	Schlumberger depth control procedures followed
Rig Up Length At Surface		IDW used as primary depth control system
Rig Up Length At Bottom		Z-Chart used as secondary depth control system
Rig Up Length Correction		Down log correlated to uplog near 7000 ft
Stretch Correction		
Tool Zero Check At Surface		

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Log[4]:Up	7146.02	24.56

Fluid Velocity = "Automatic".
CFVL equals DFSL channel

Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)
-----------------	----------------	--------------------	------------------

Mud Impedance = "Theoretical".
CZMD uses theoretical results.
MUD_N_THE=1.09
DFD=1.08g/cm3(9.00lbm/gal)

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

One

Main Pass

Software Version

Acquisition System	Version
Maxwell 2021.1	11.1.211946.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[4]:Up	Up	24.56 ft	7146.03 ft	20-Oct-2021	20-Oct-2021	ON	5.00 ft	Yes

All depths are referenced to toolstring zero

Log

Company: Occidental Petroleum Inc Well: Cooley 13-16

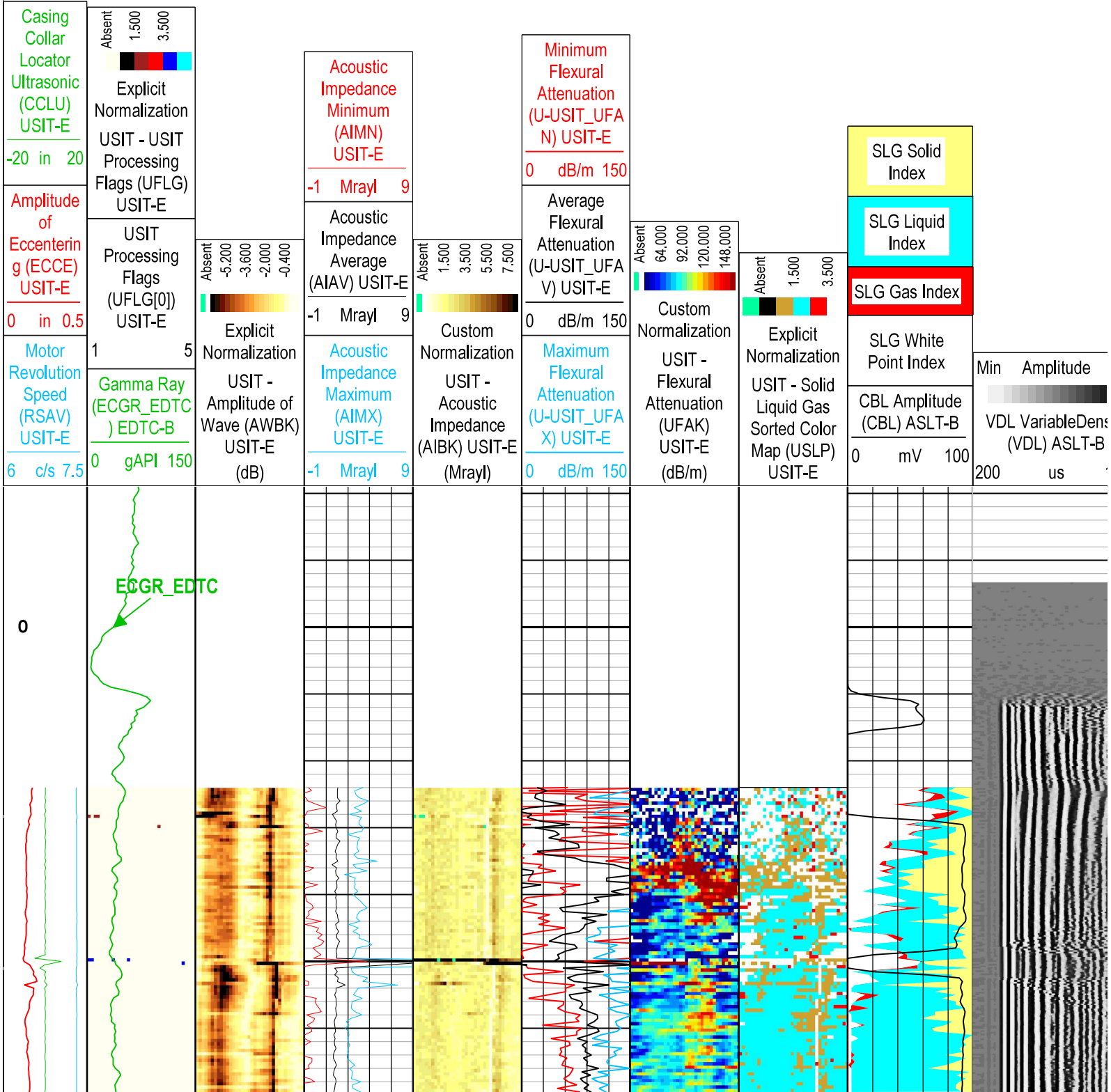
One: Log41:Up:S005

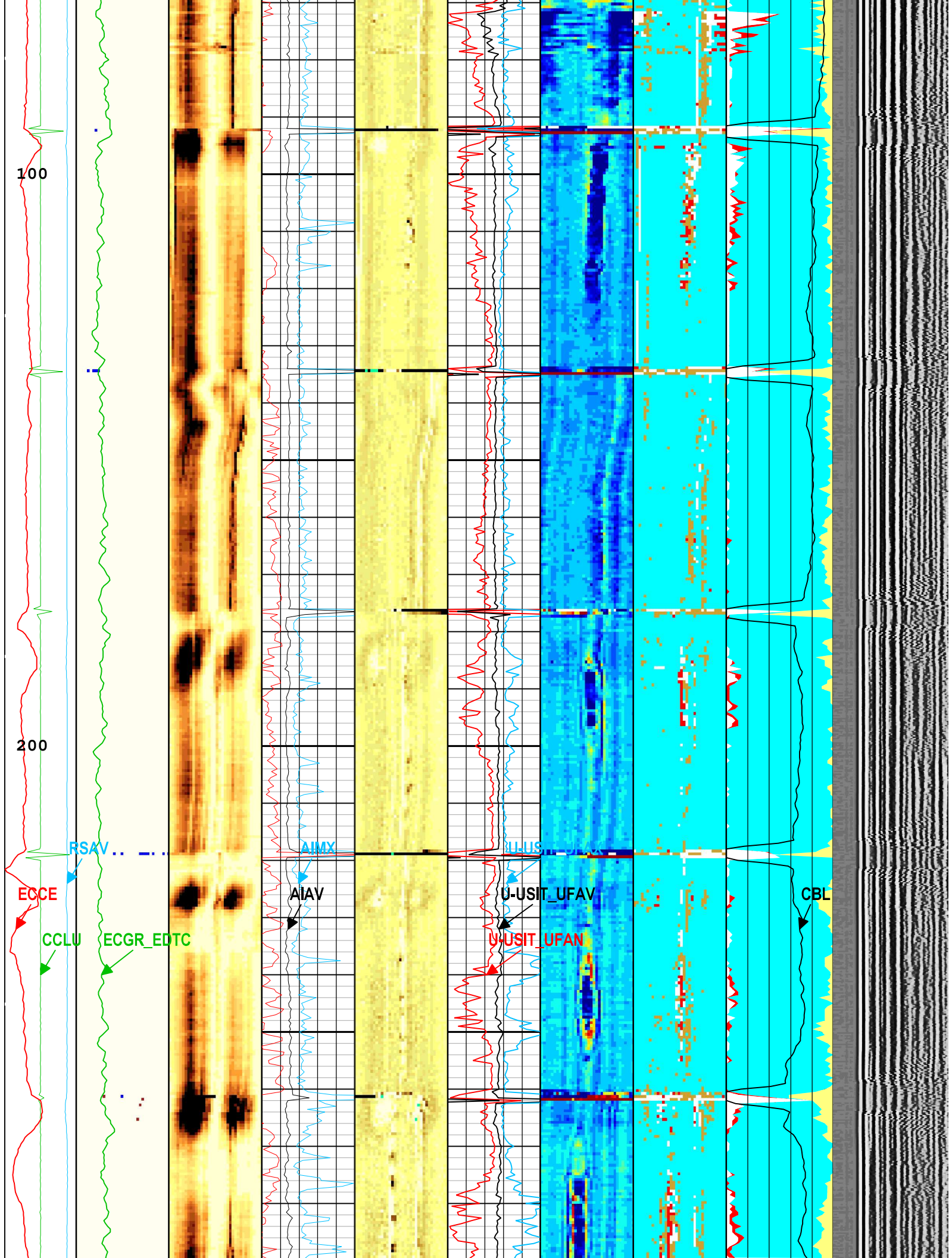
Description: USI IBC SLG Format: Log (IBC SLG CBL DCBL-VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 20-Oct-2021 12:00:47

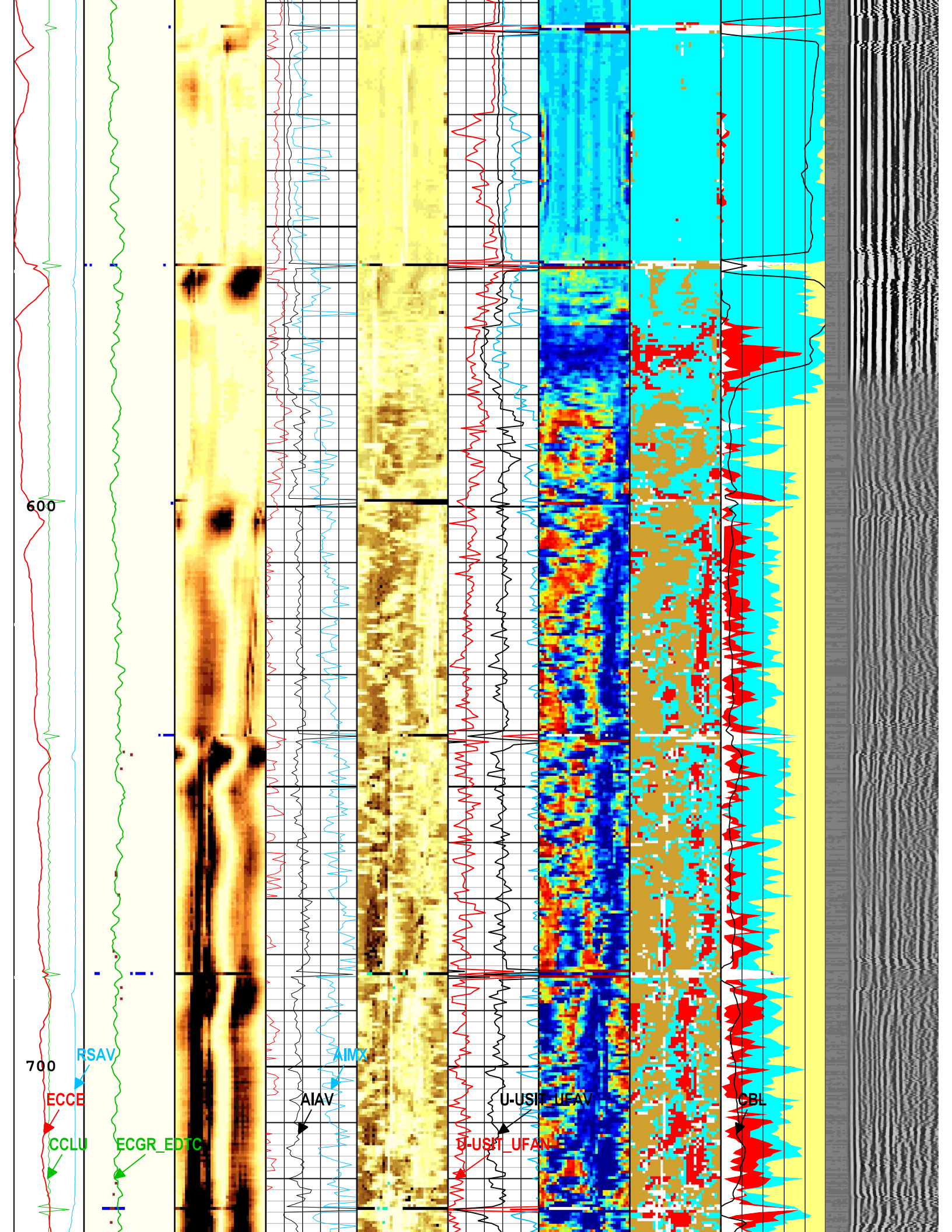
USIT Processing Flags (UFLG[0]) USIT-E

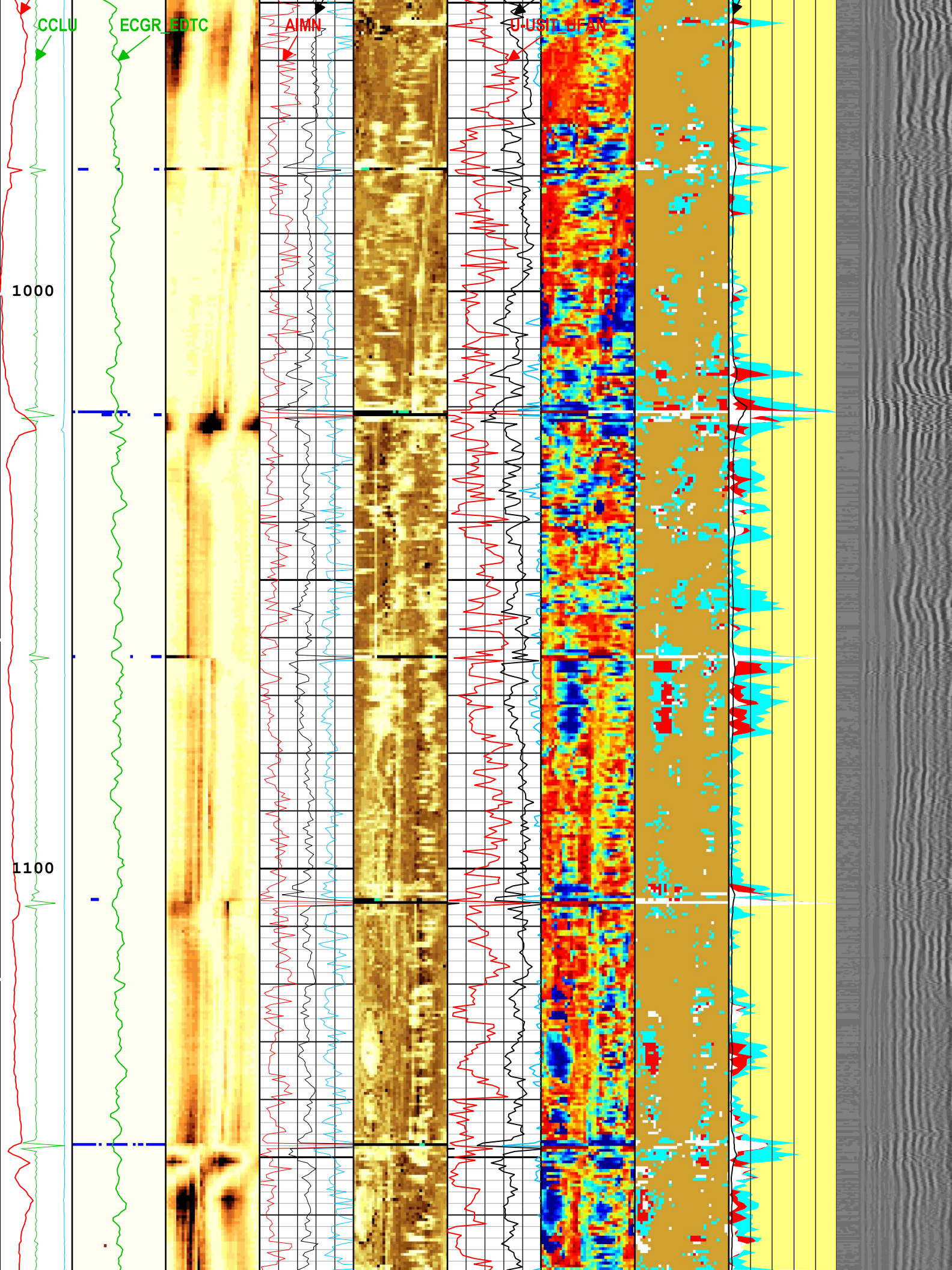
- 1 - UFLG 1 Value within [0.0 - 1.5] - : UTIM Error
- 2 - UFLG 2 Value within [1.5 - 2.5] - : Pulse Origin Not Detected
- 3 - UFLG 3 Value within [2.5 - 3.5] - : WINLEN Error
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : Casing Thickness Error
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 -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

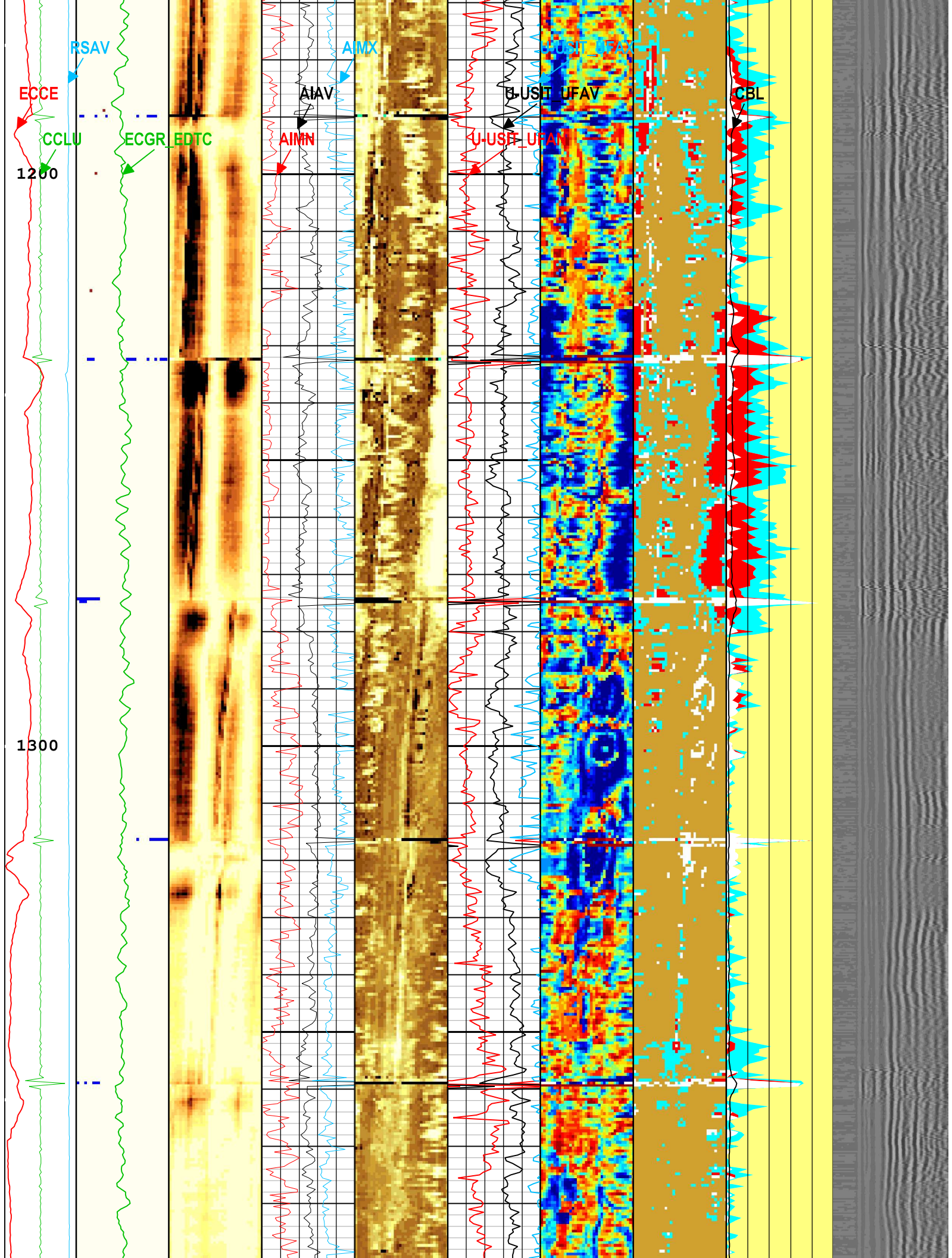
TIME_1900 - Time Marked every 60.00 (s)

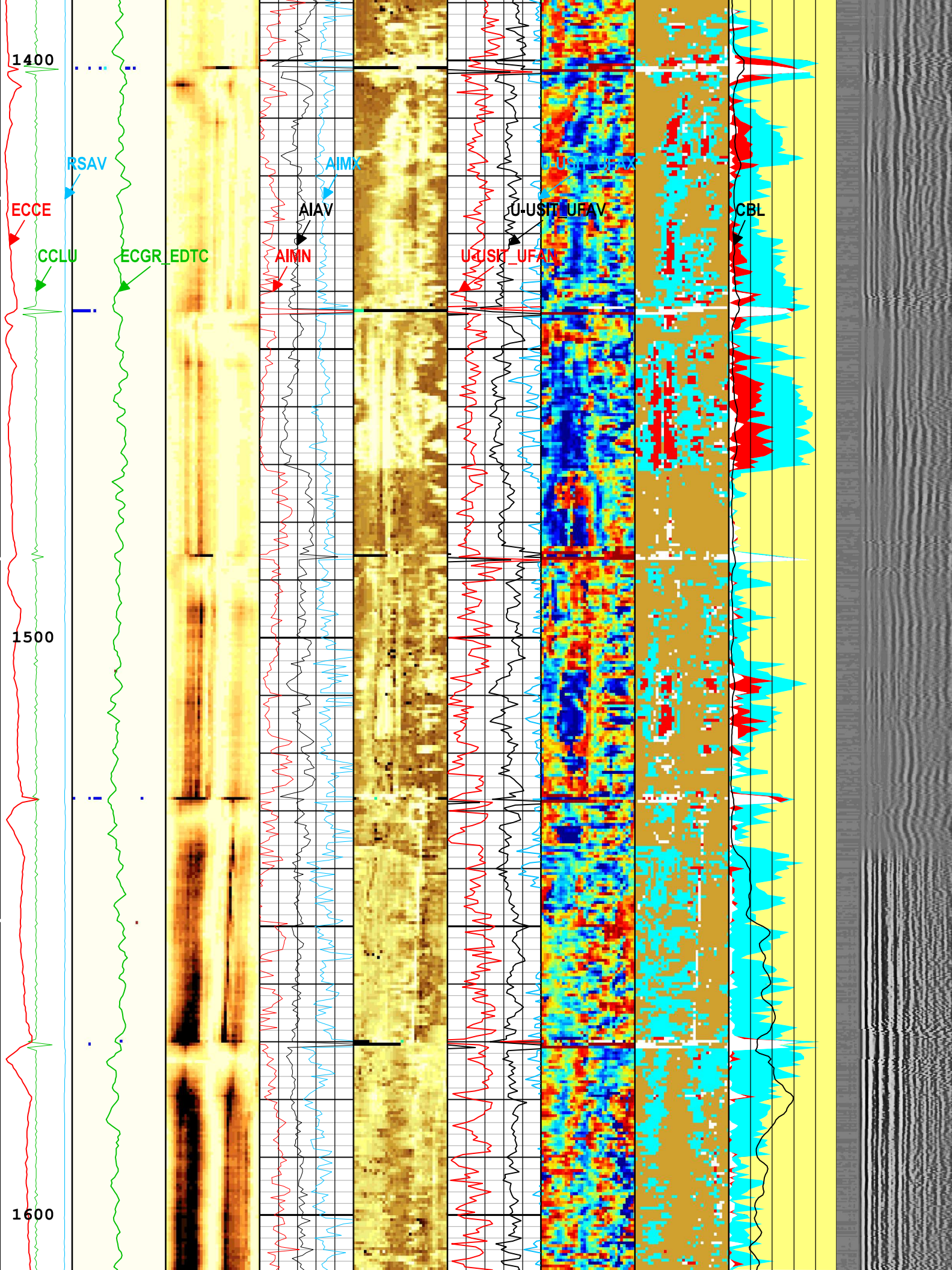


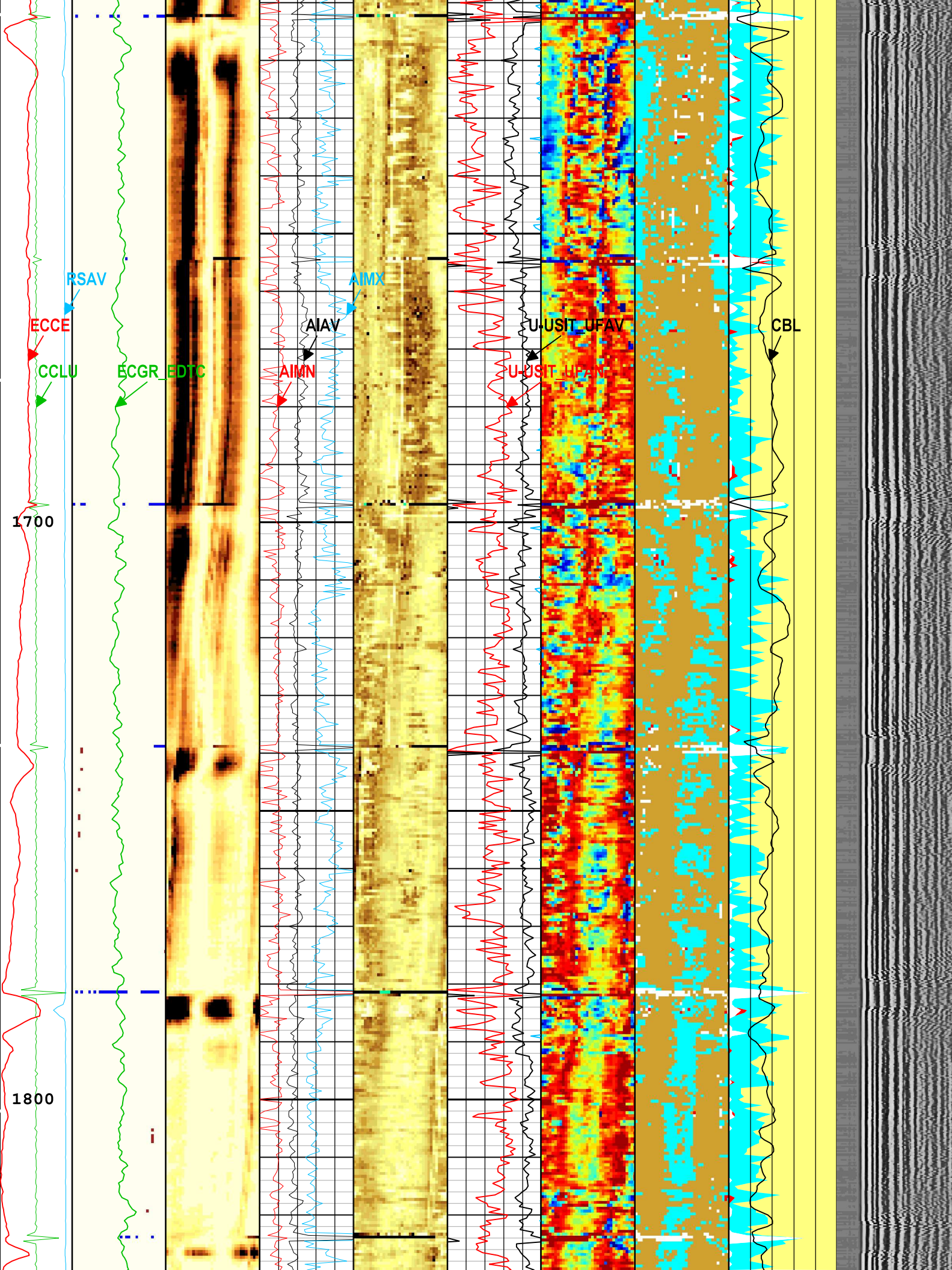


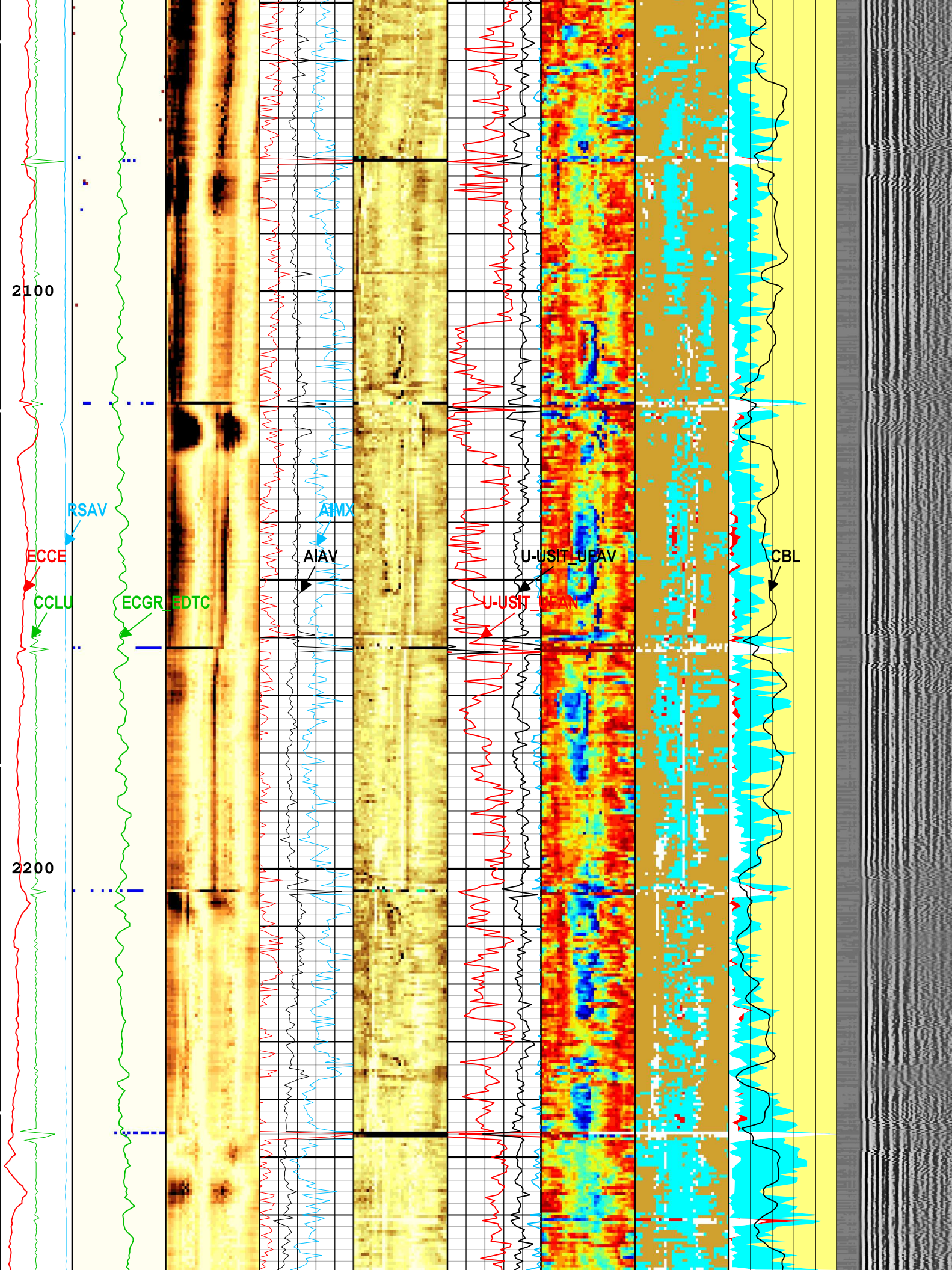


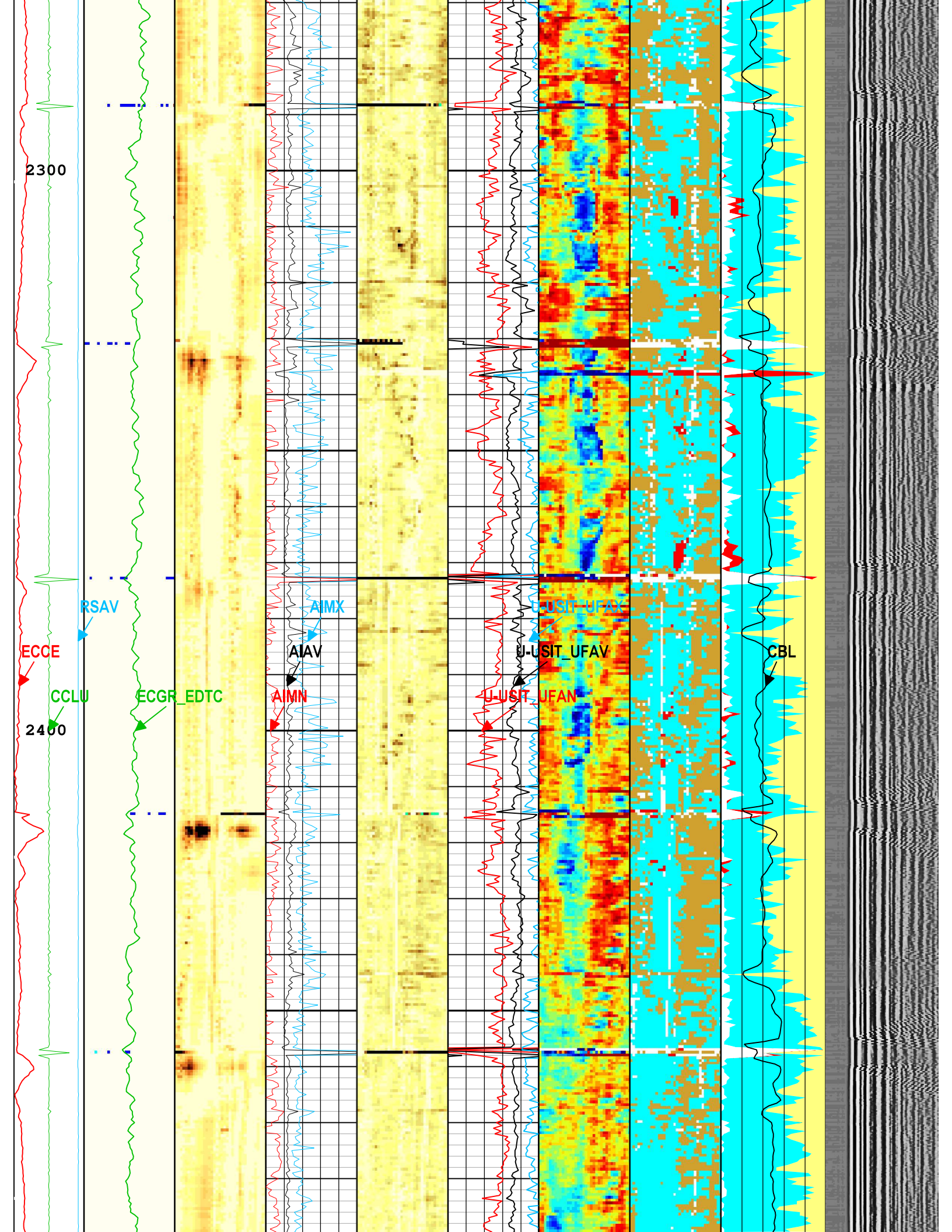








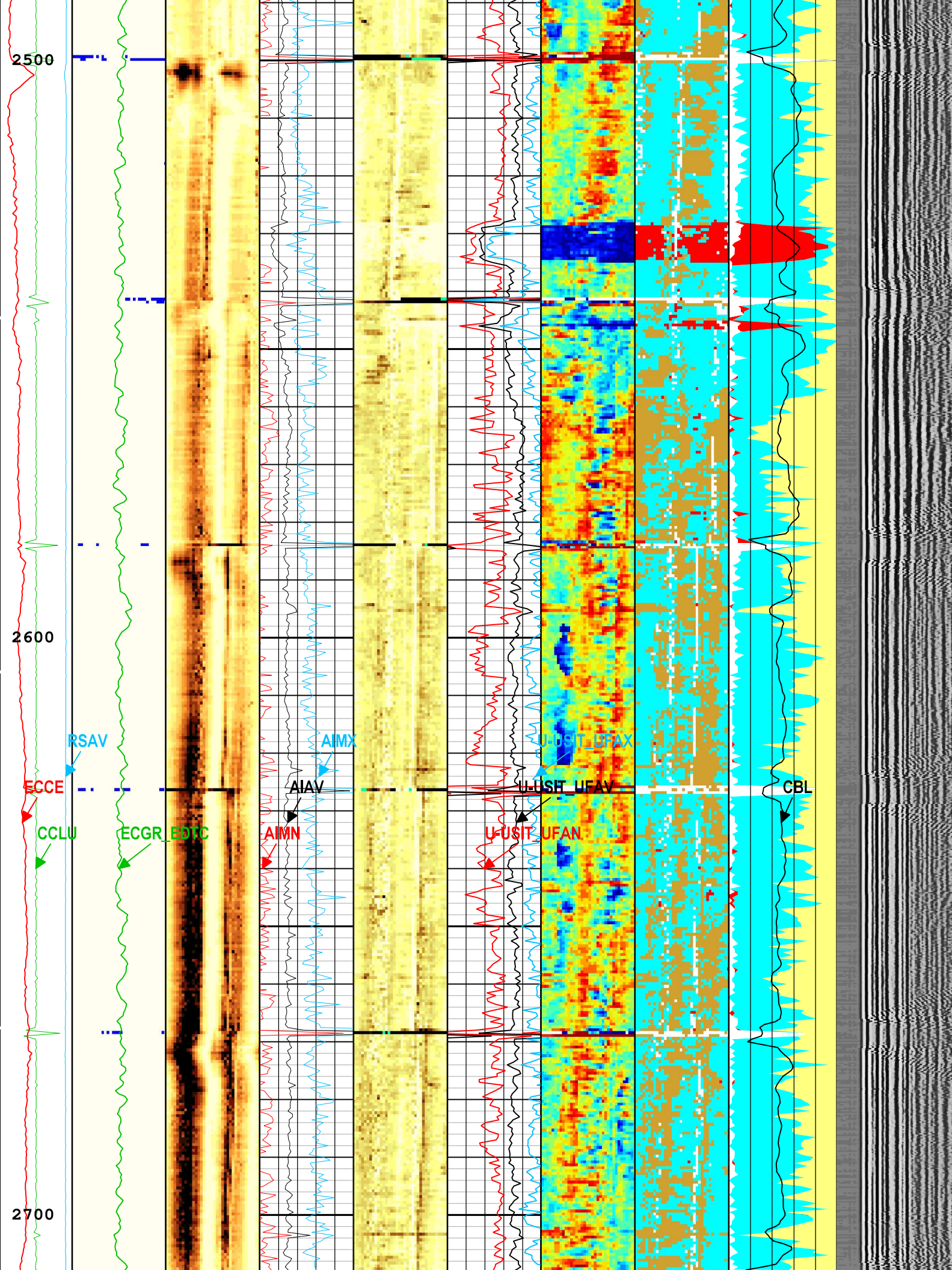


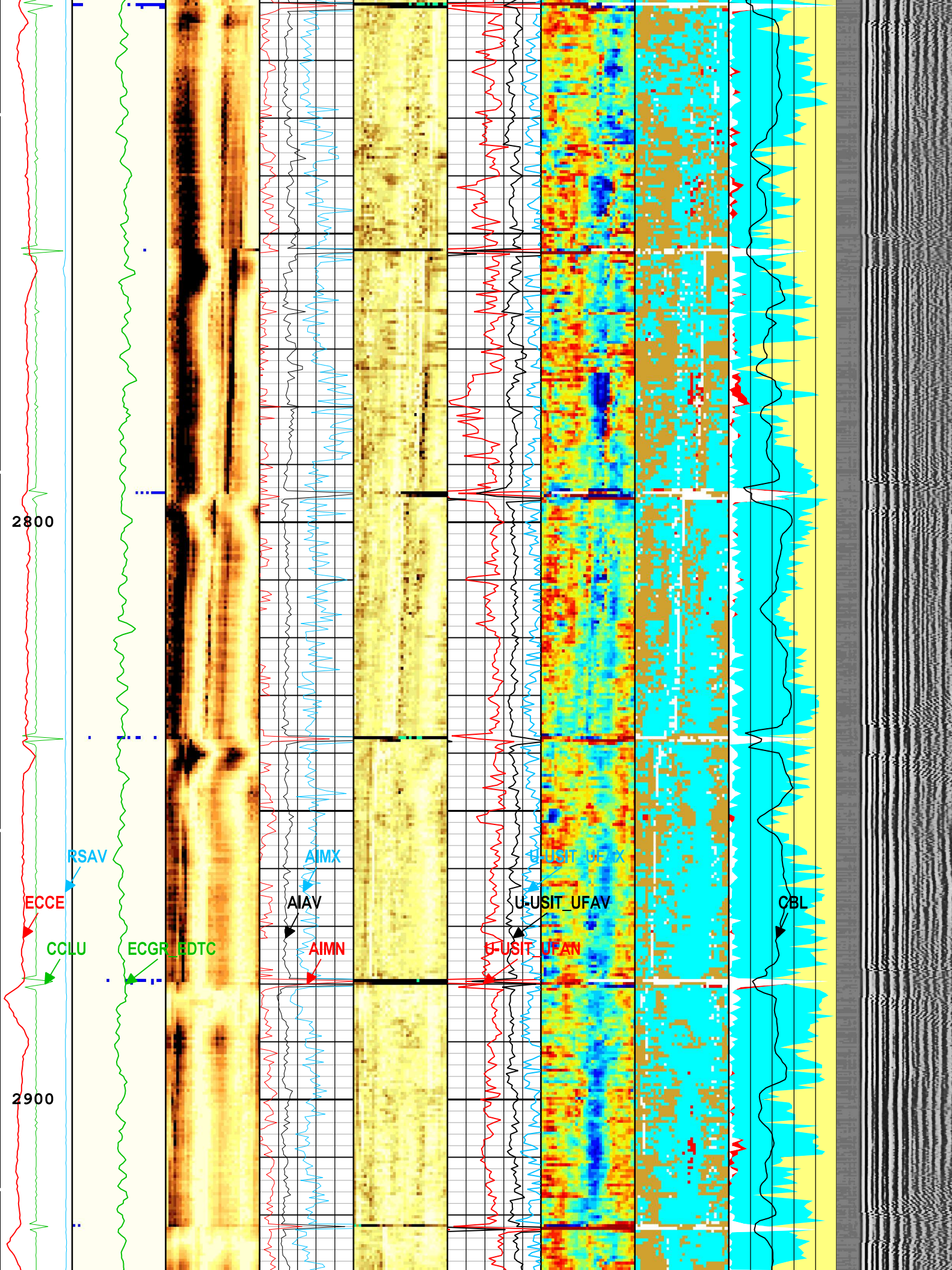


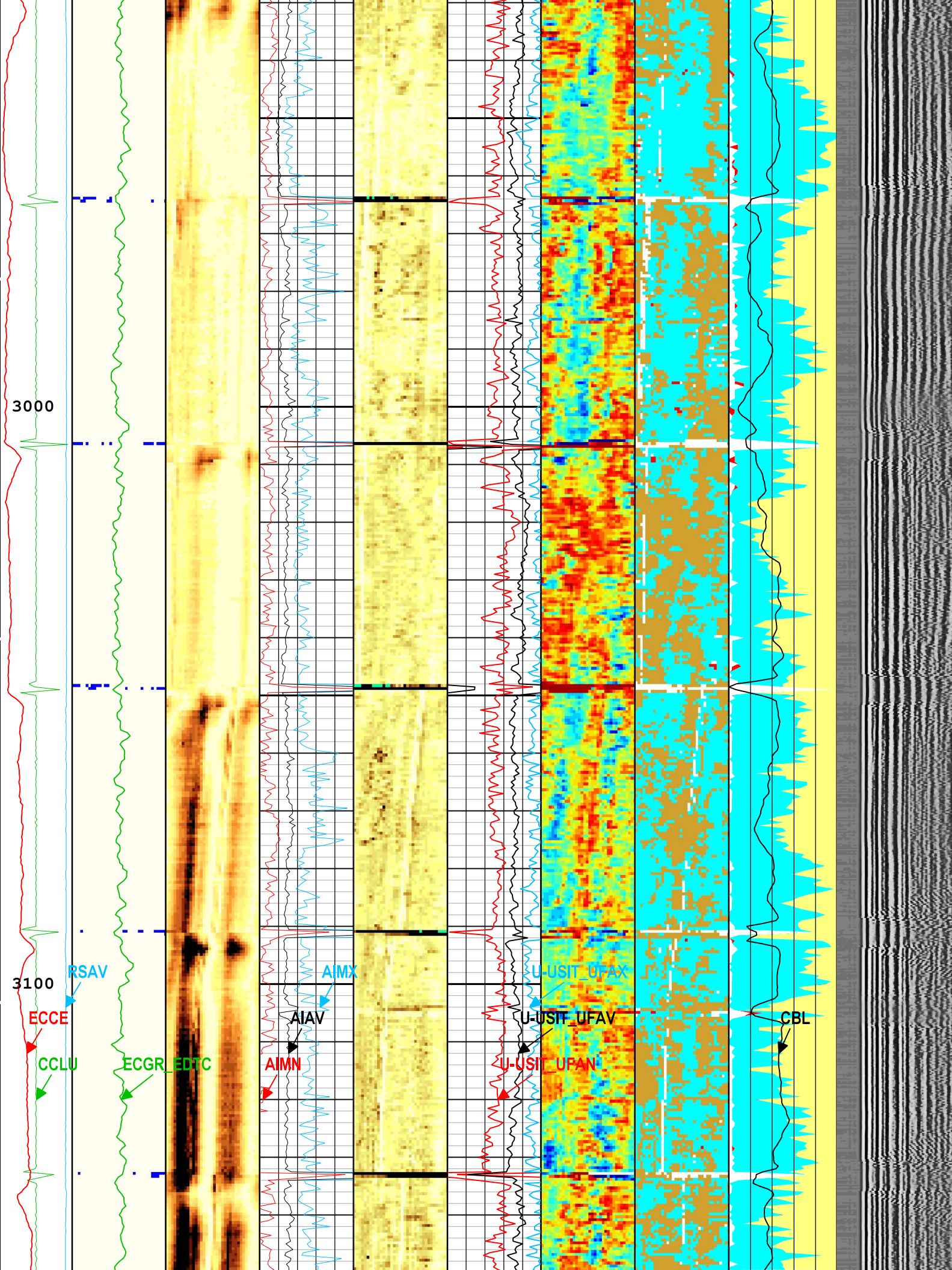
2500

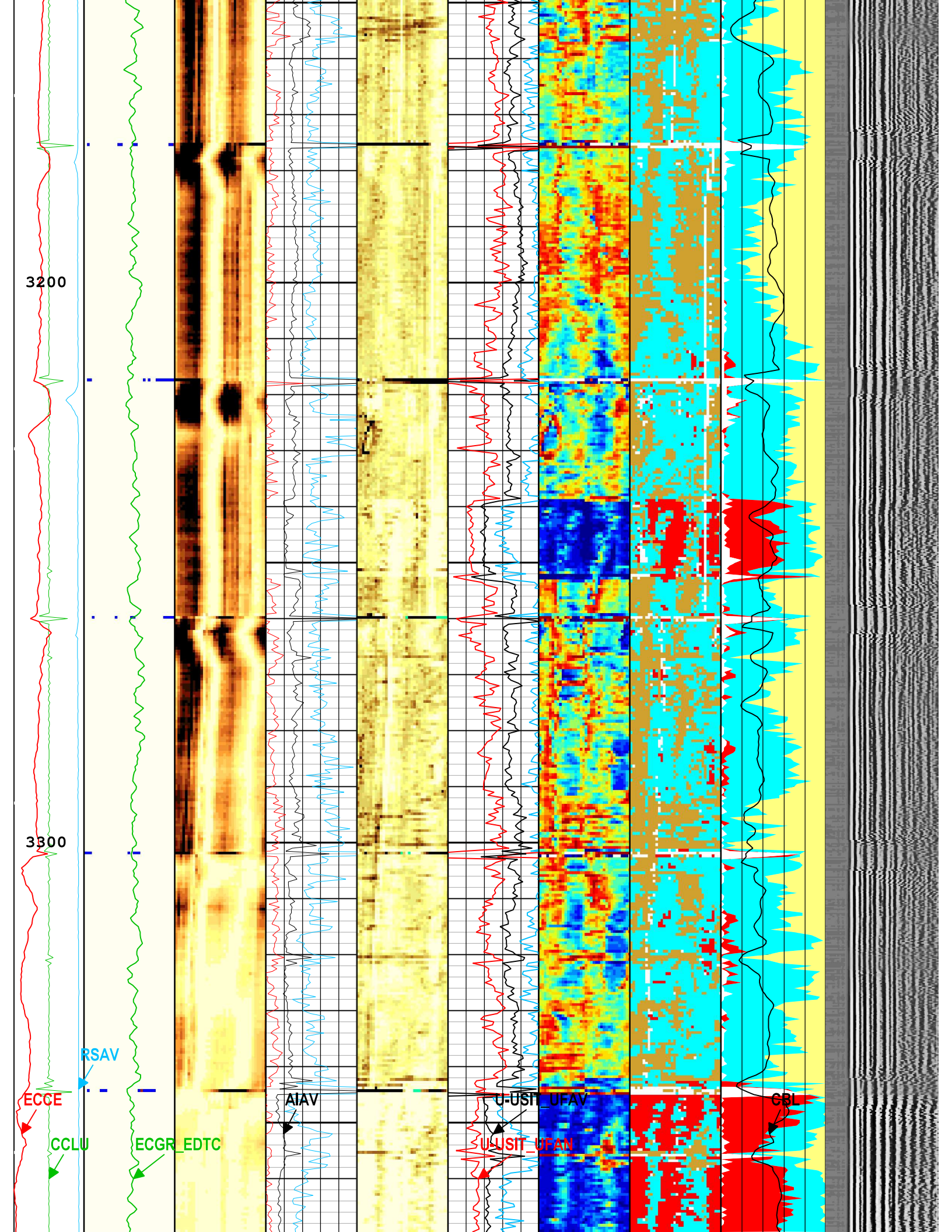
2600

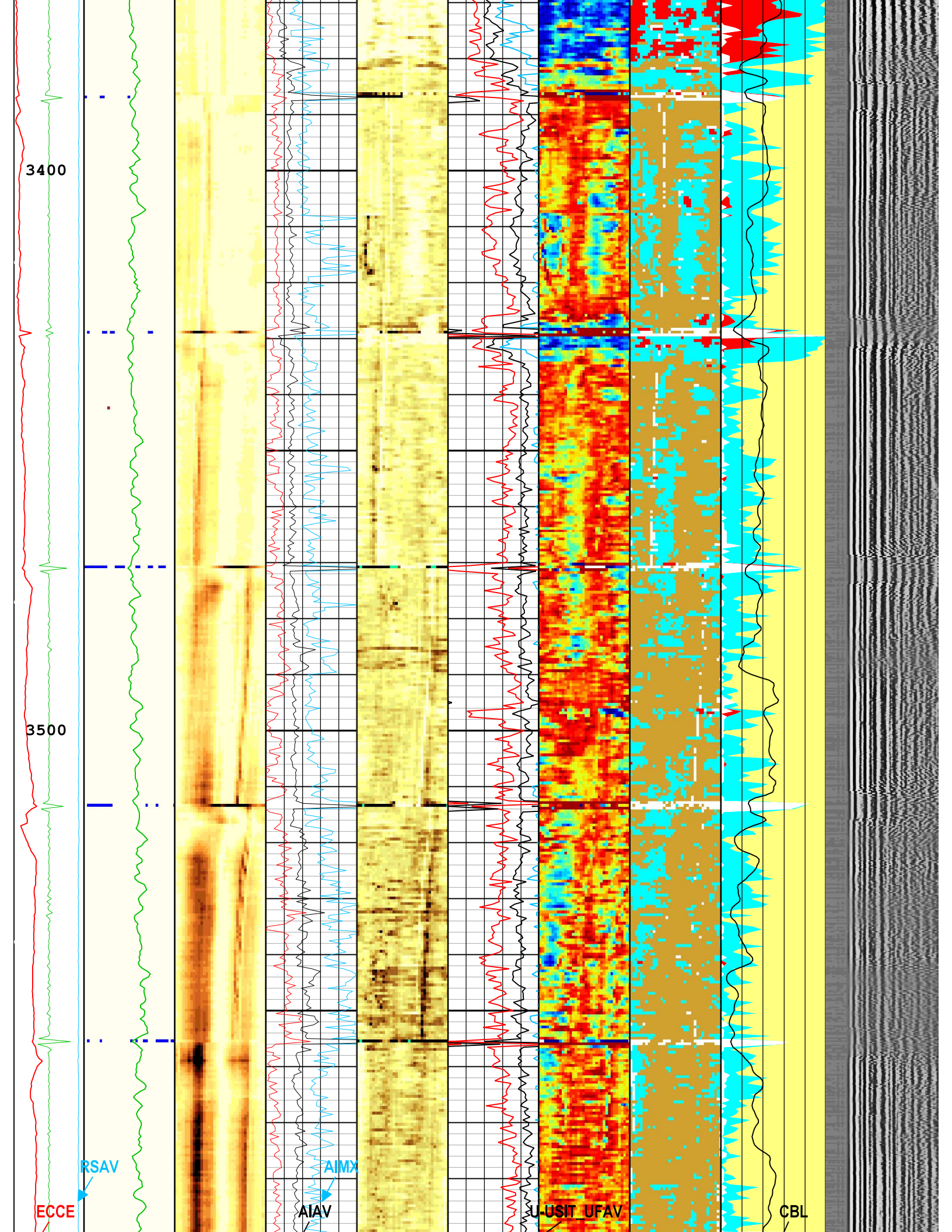
2700

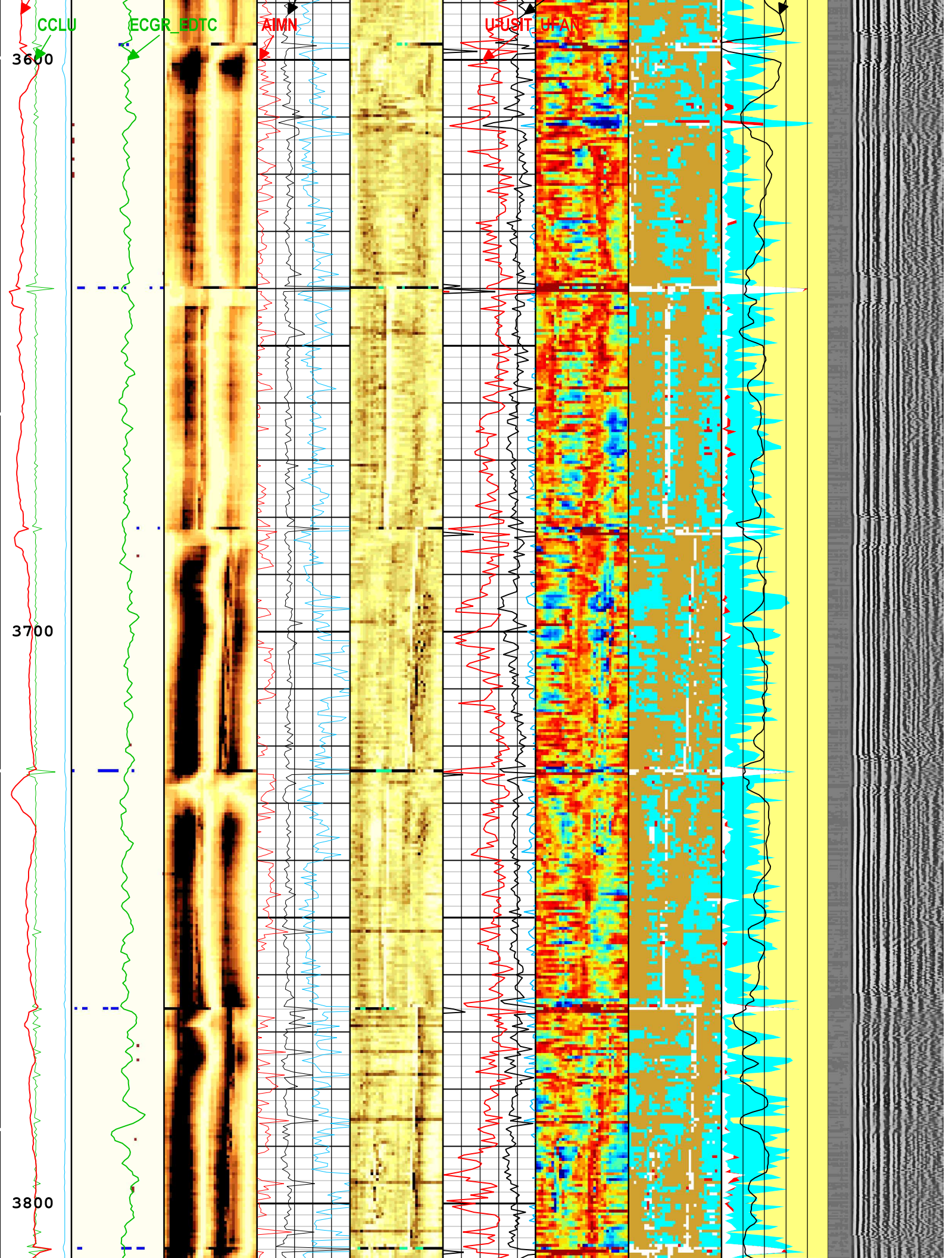


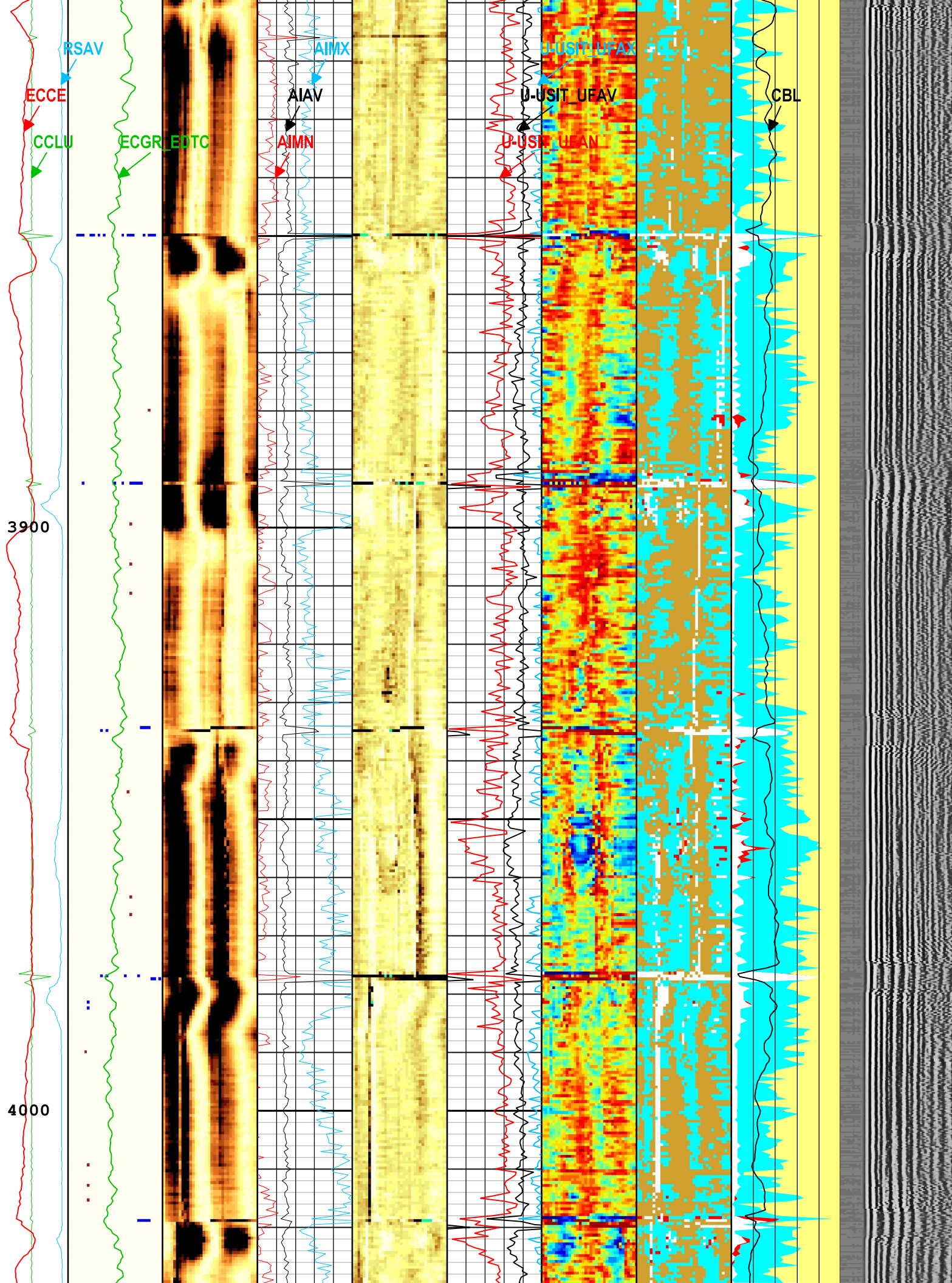


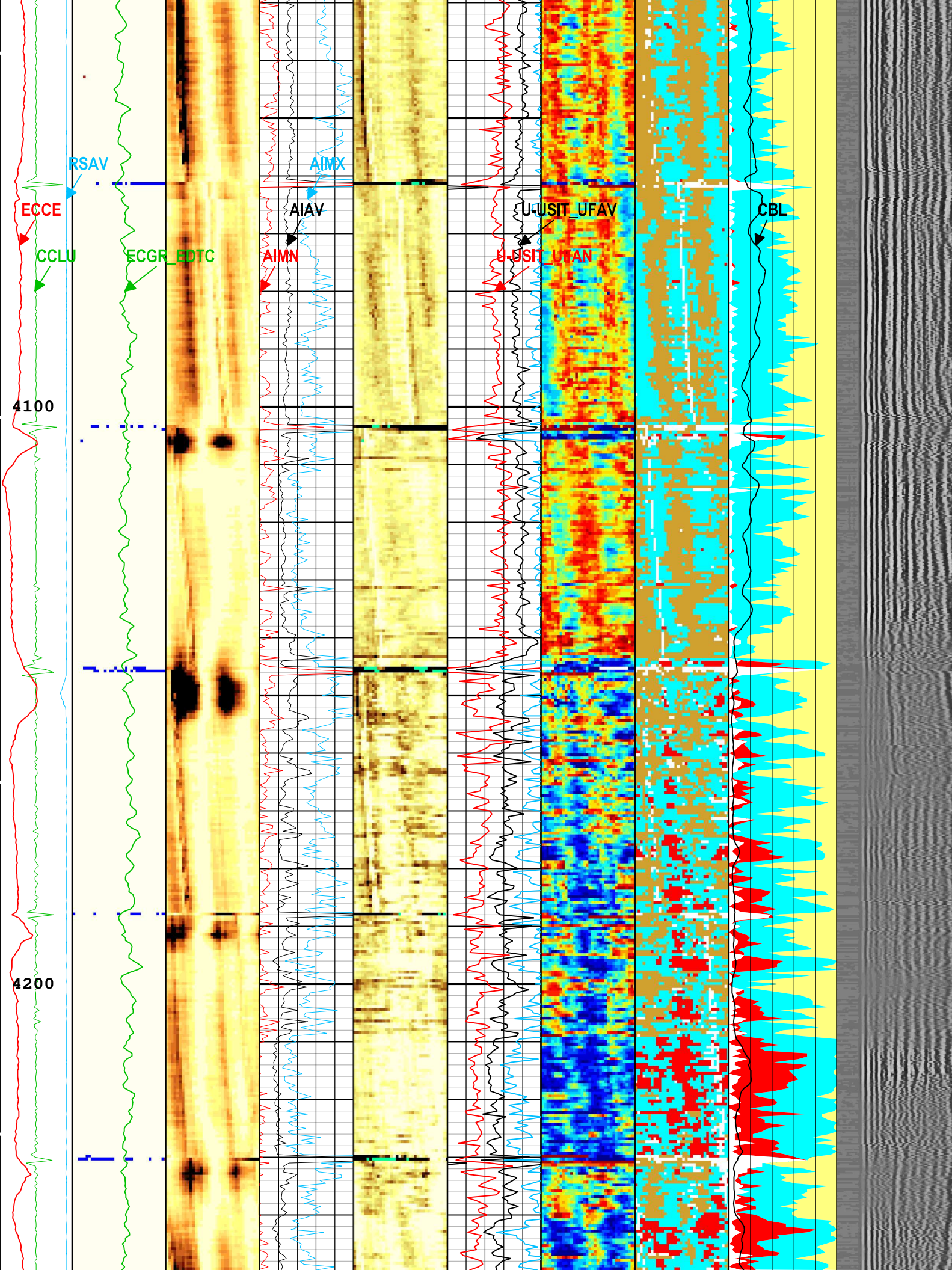


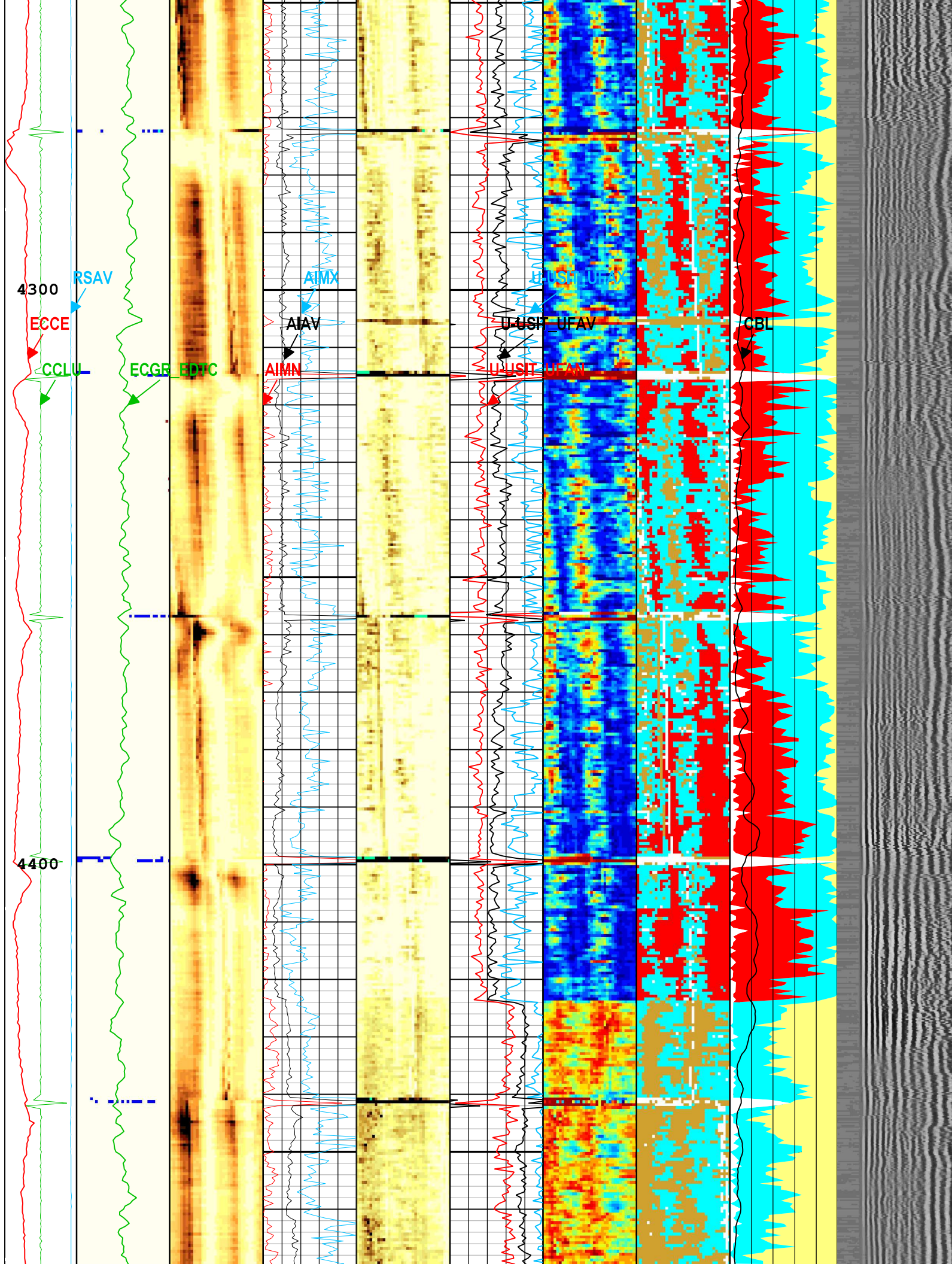


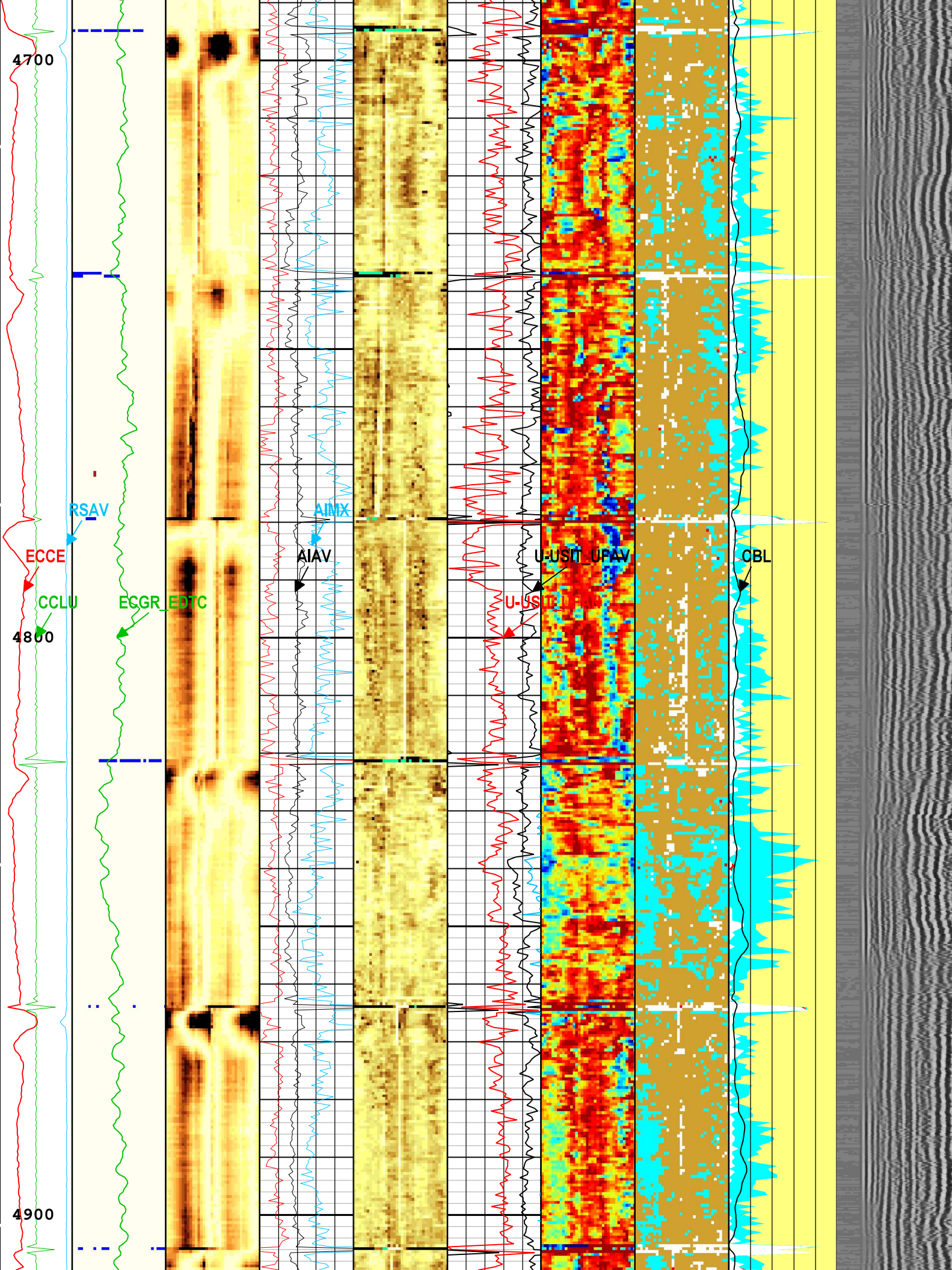


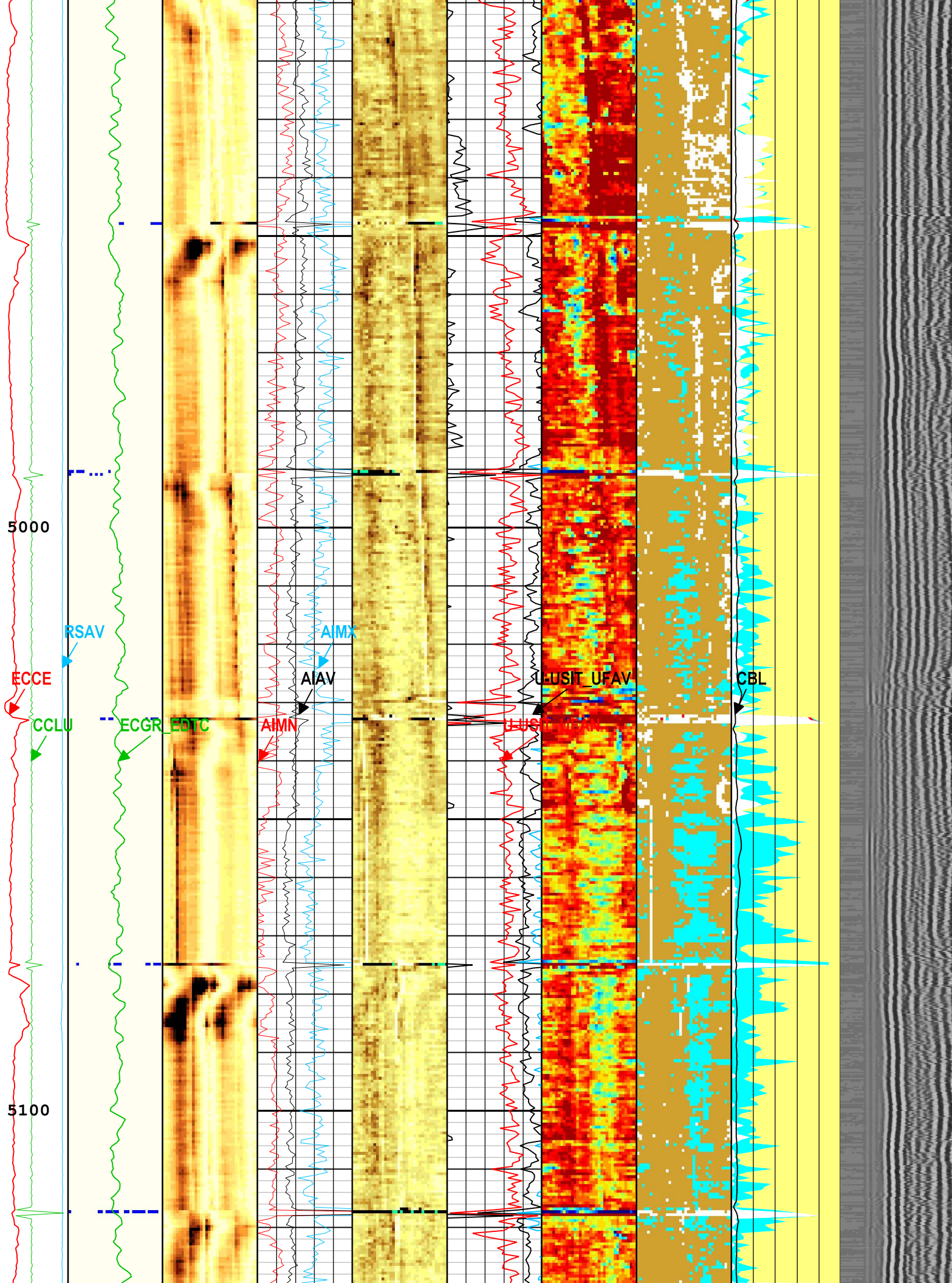


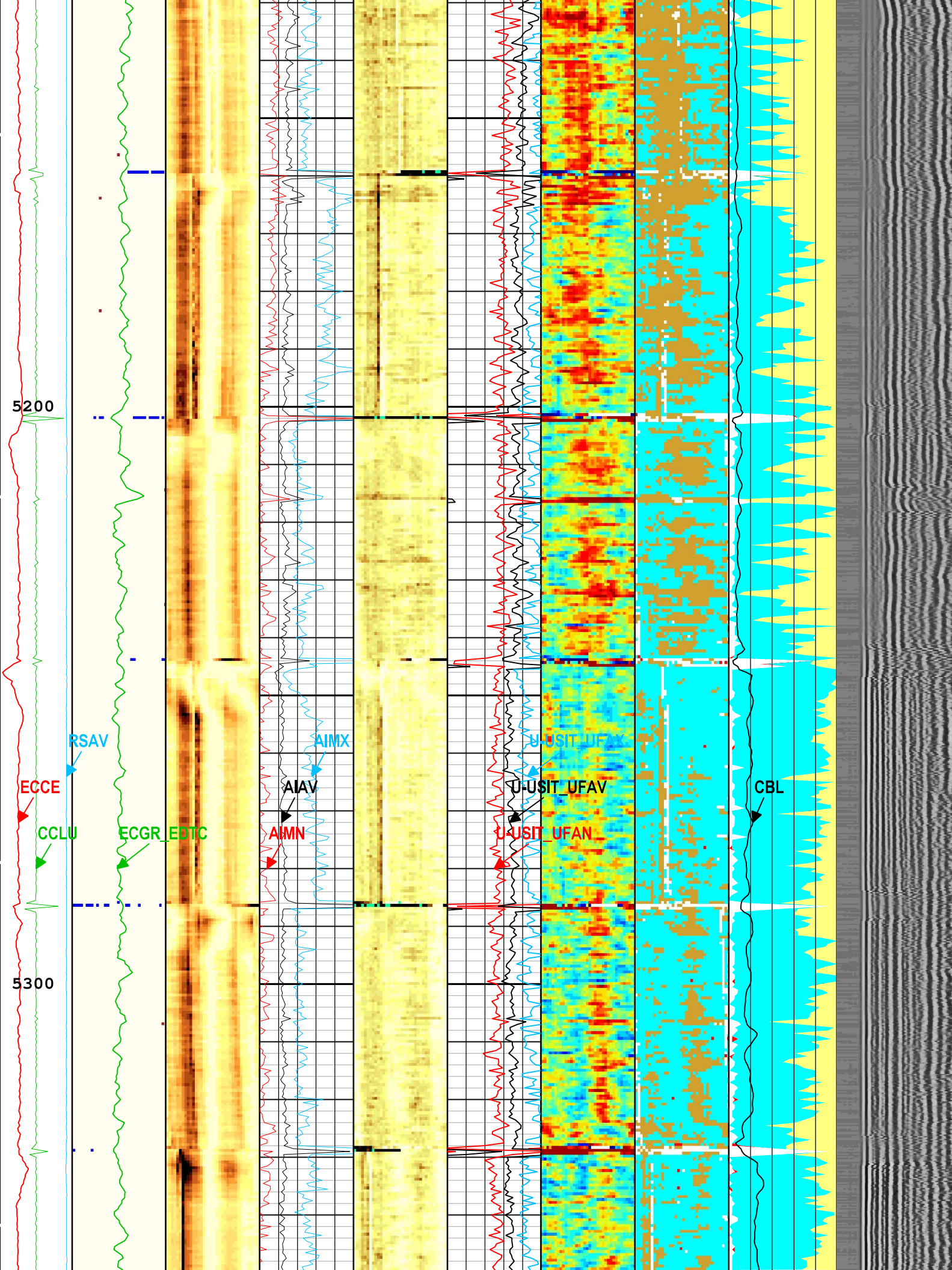












5400

5500

ECCE

CCLU

ECGR_EDTC

RSAV

AMX

AIAV

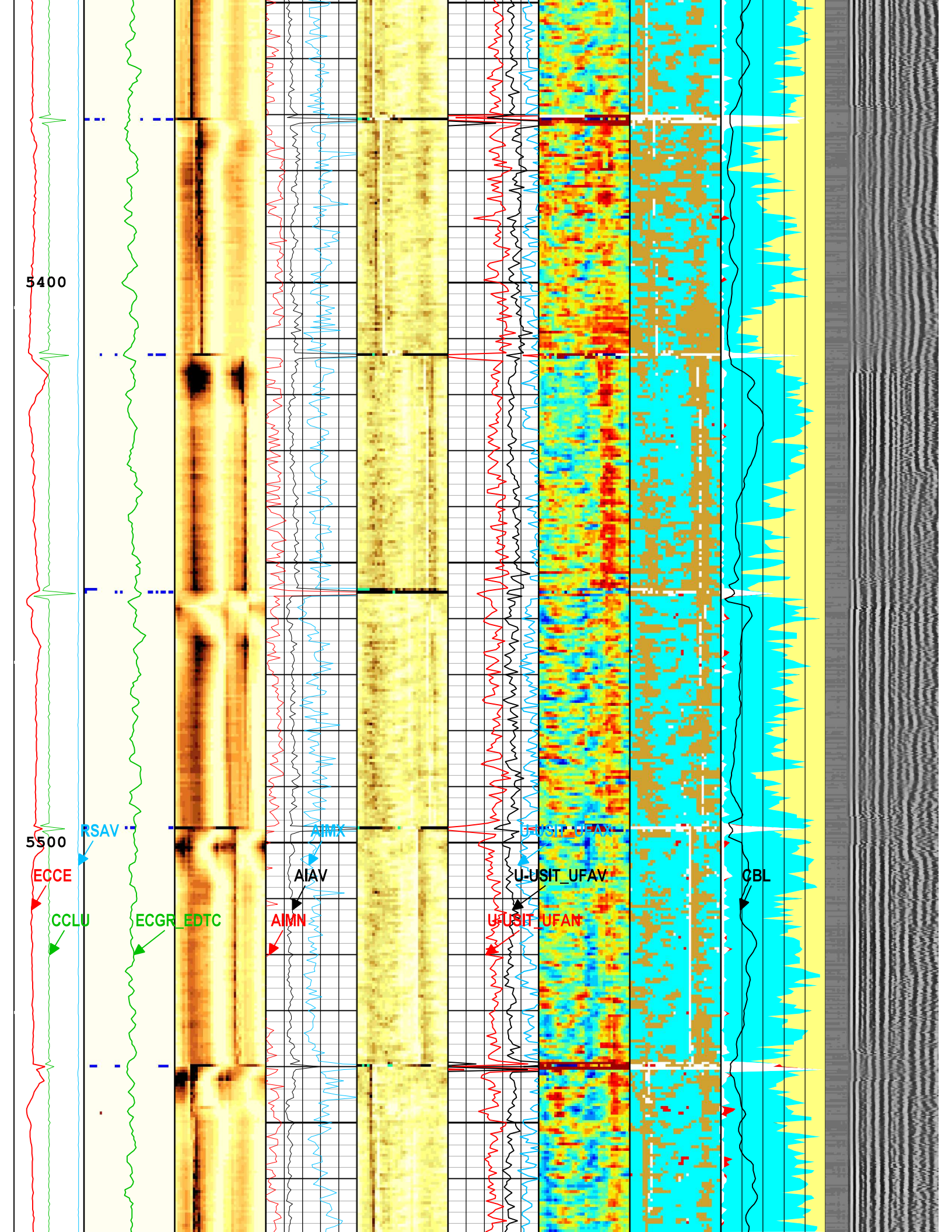
AMN

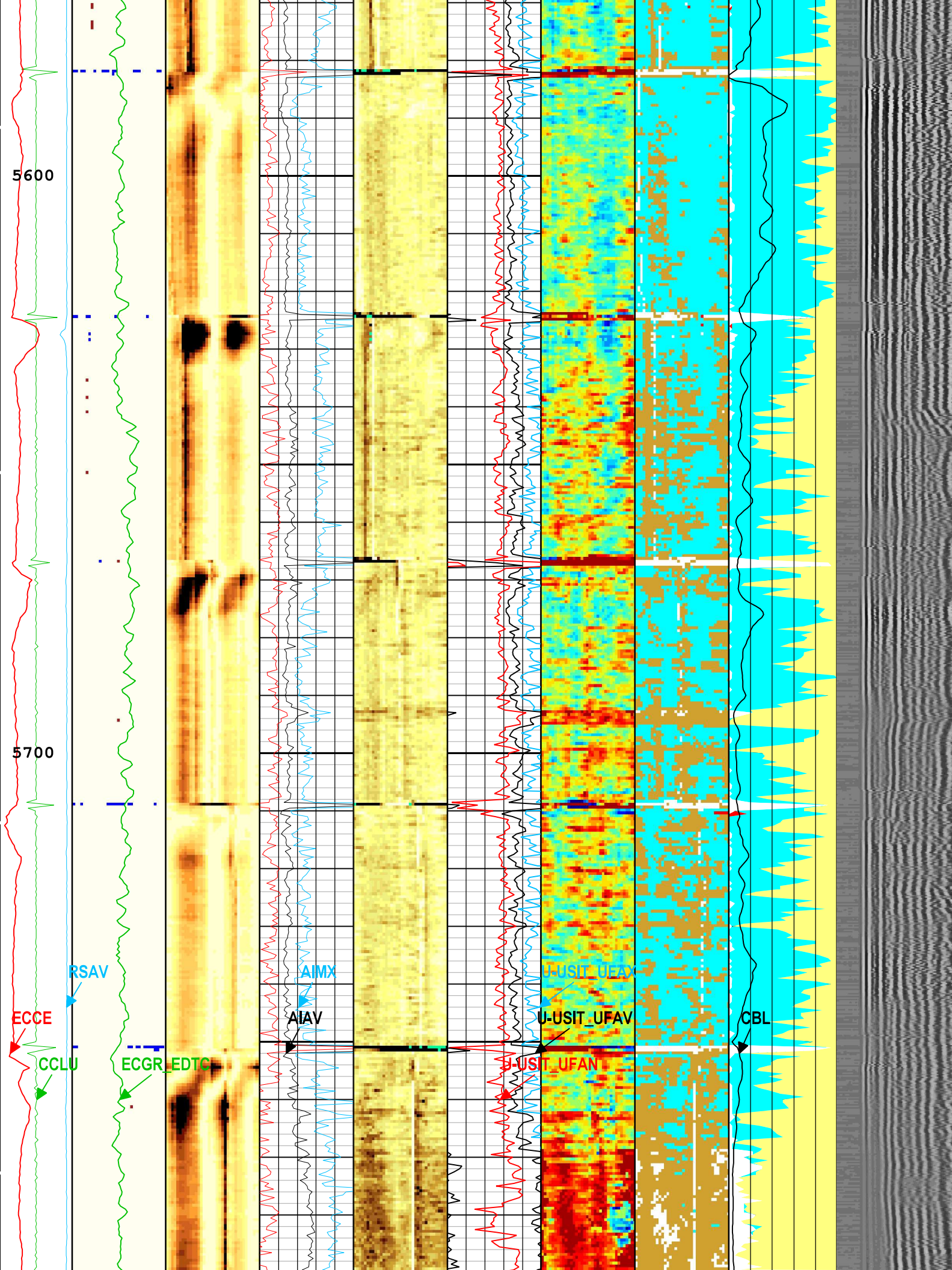
U-USIT_UFAN

U-USIT_UFAV

U-USIT_UFAN

CBL

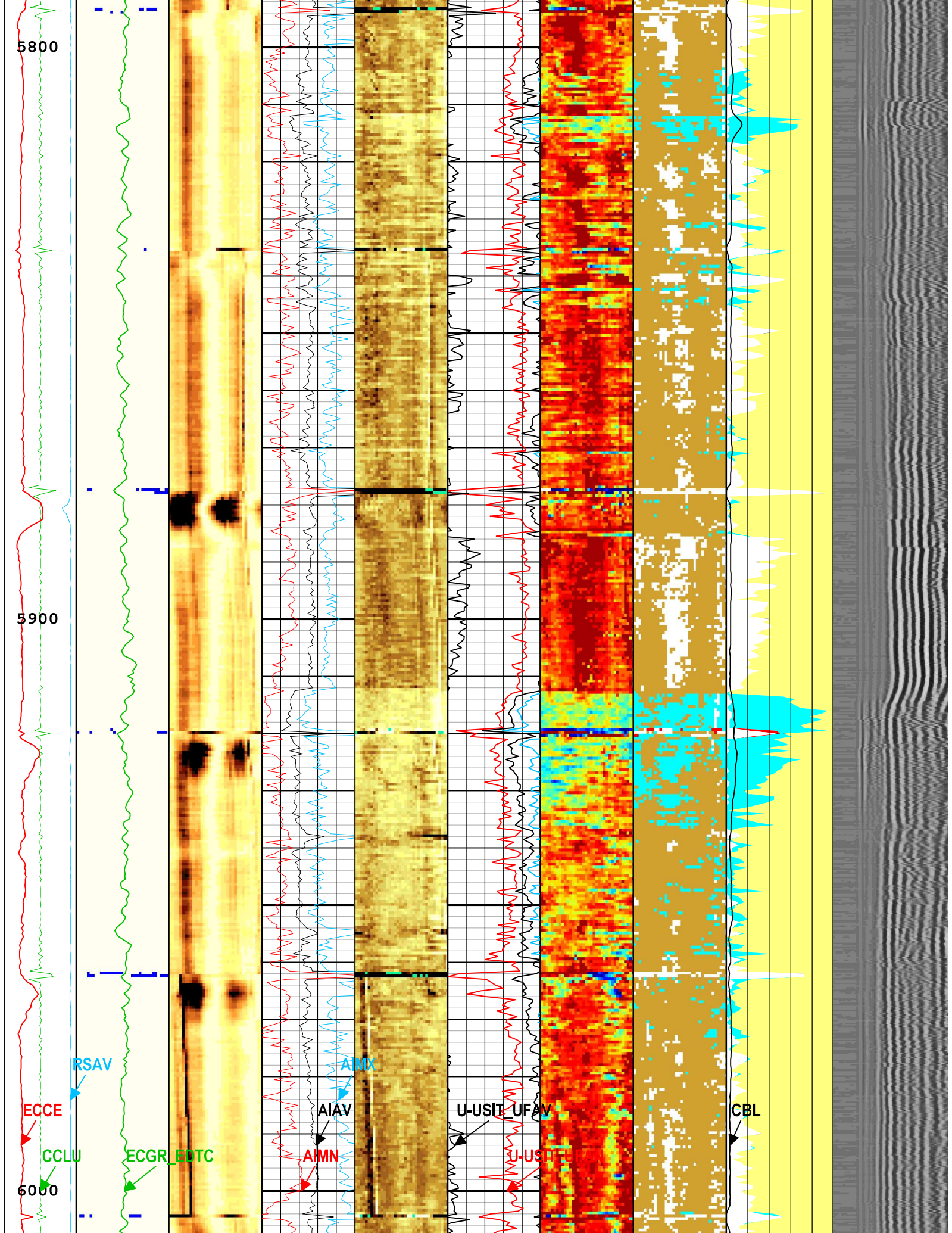


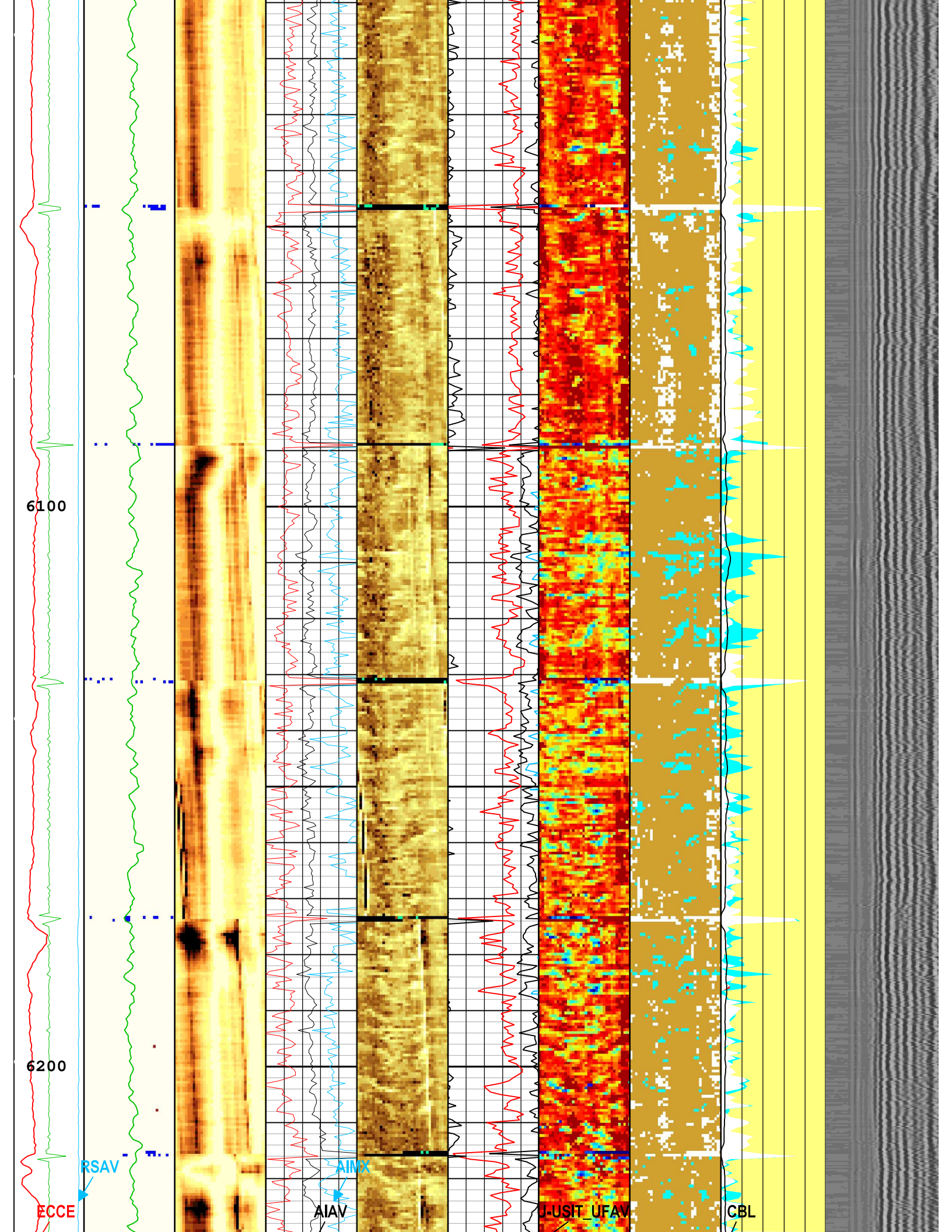


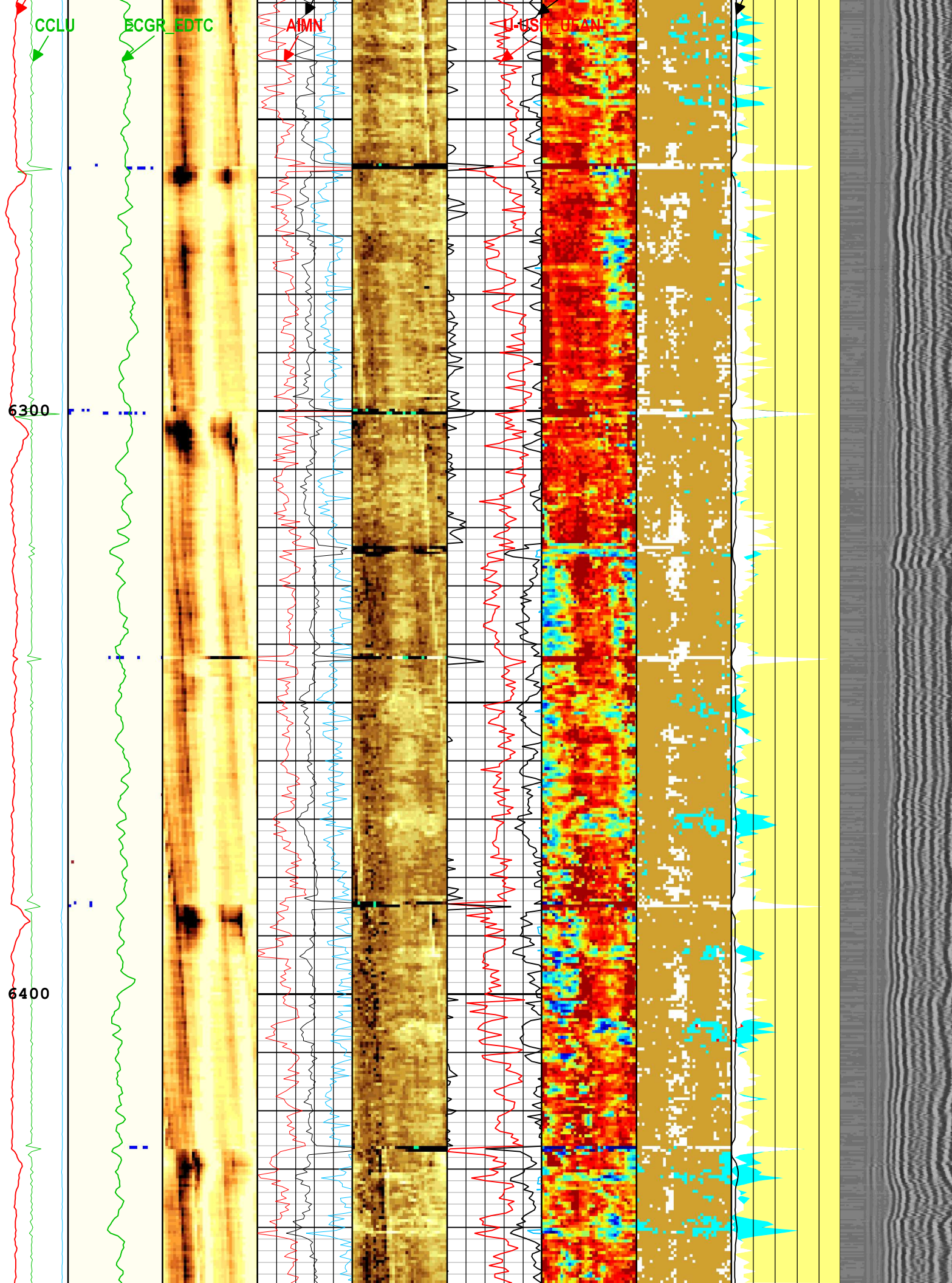
5800

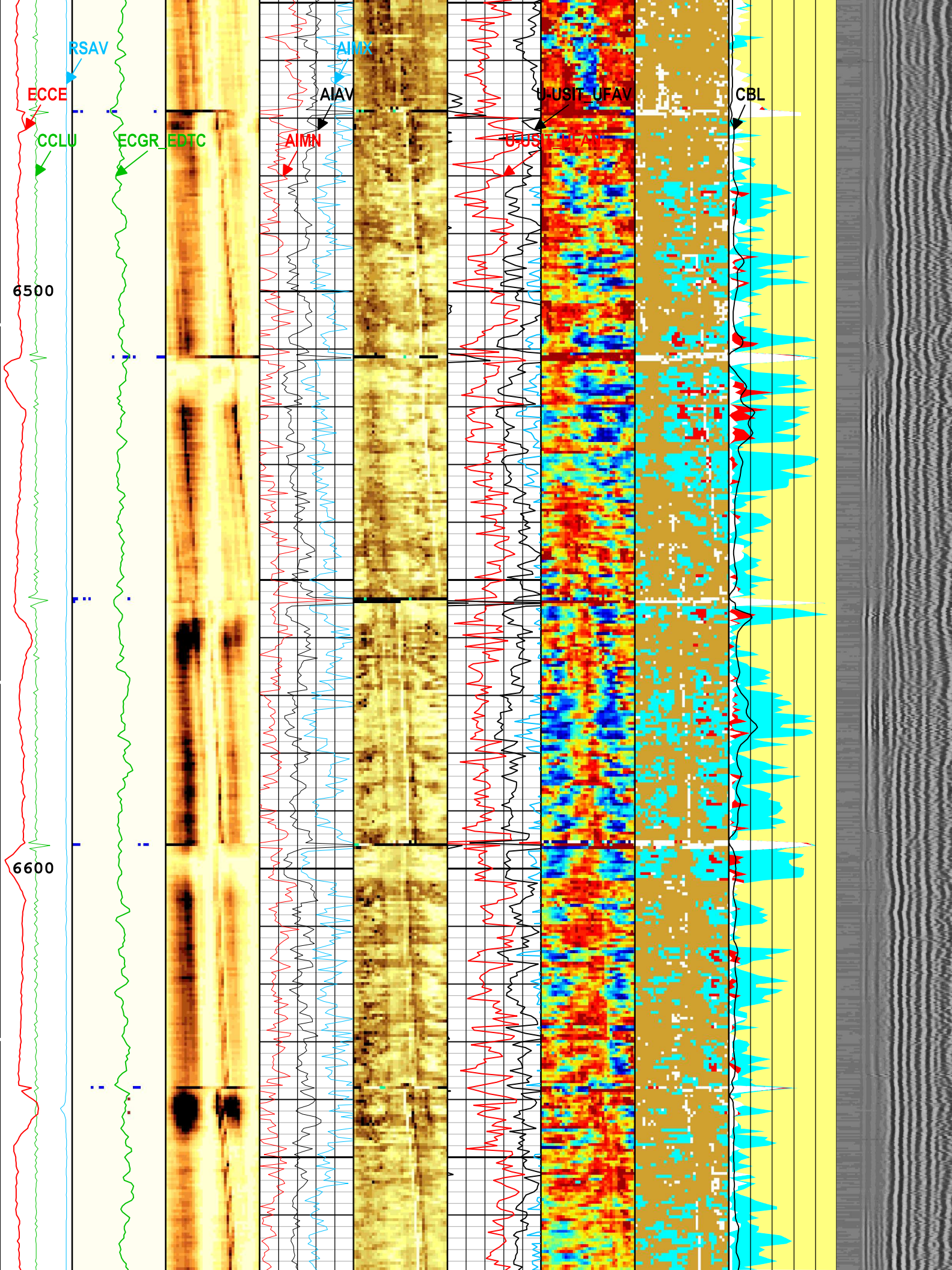
5900

6000









6700

ECCE

CCLU

6800

RSAV

ECGR_EDTC

AIMX

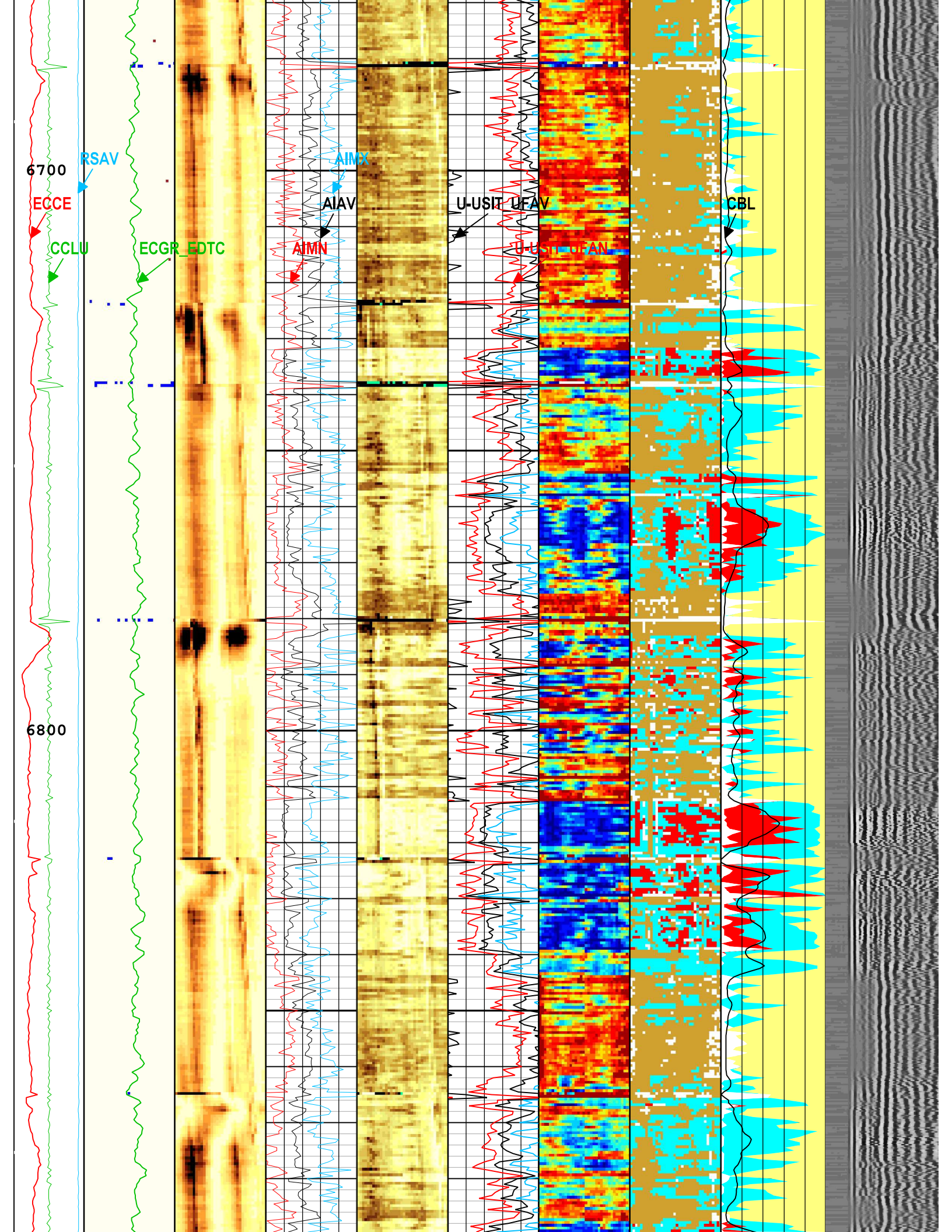
AIAN

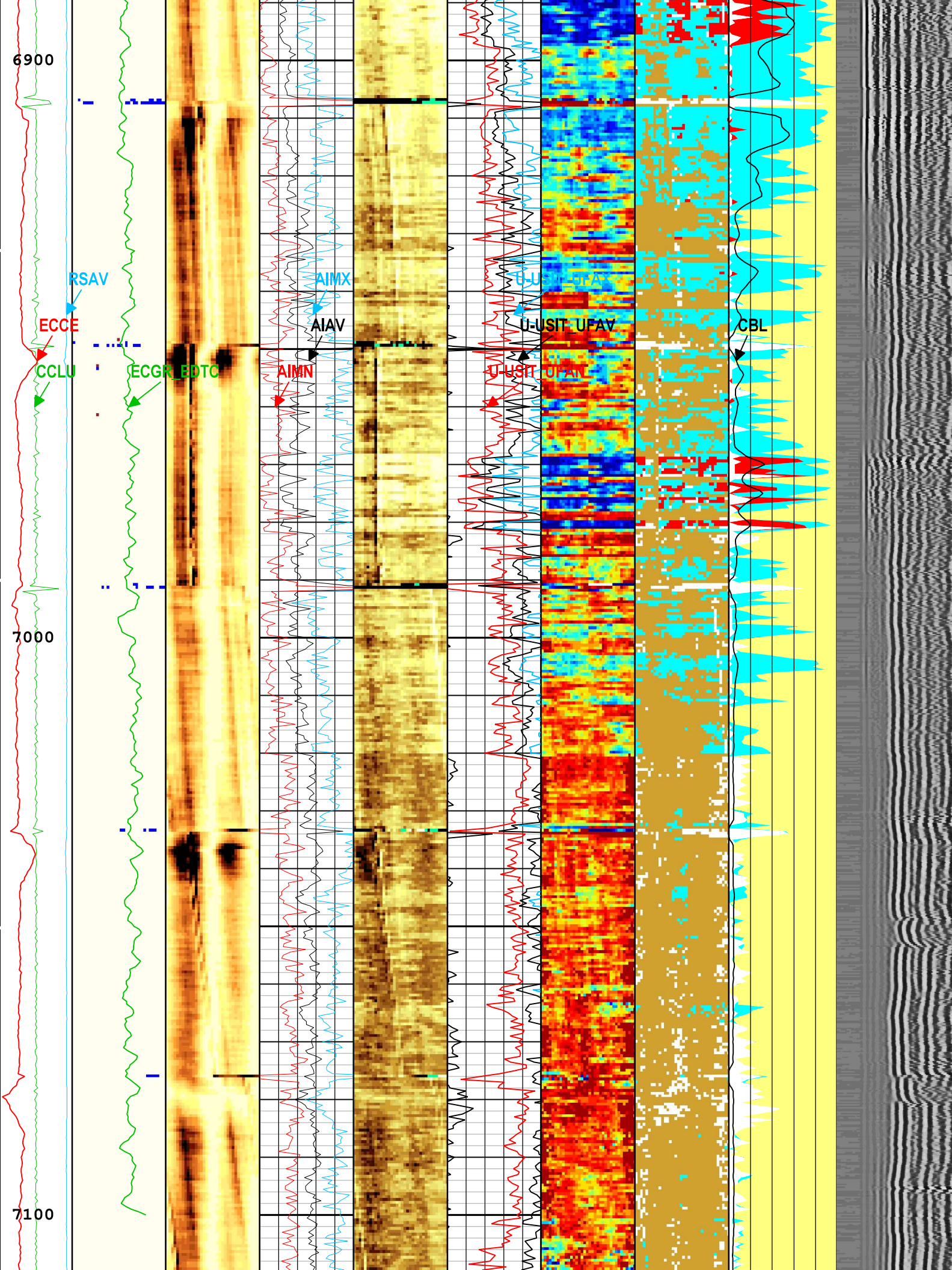
AIMN

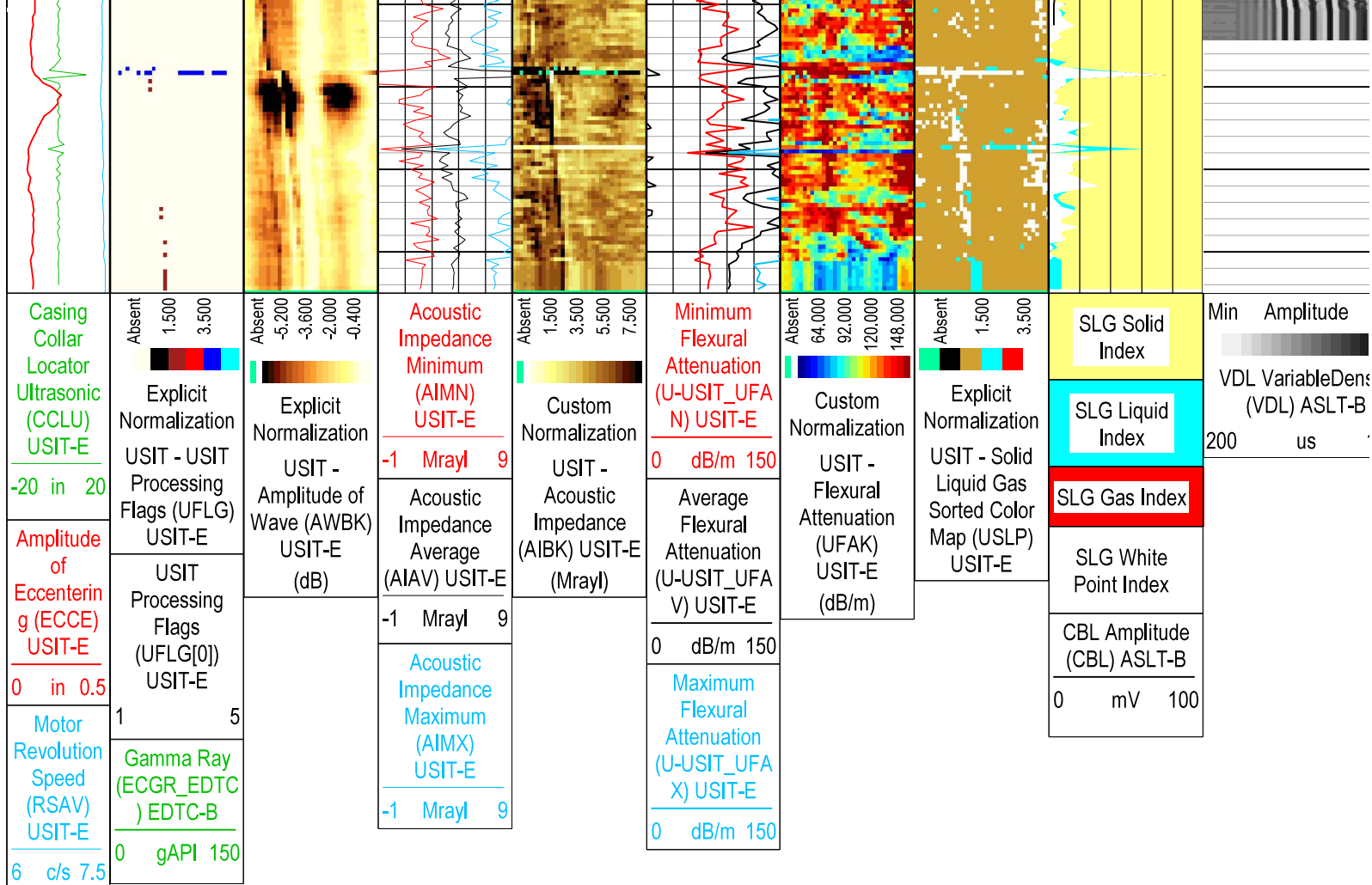
U-USIT_UFAN

U-USIT_UFAN

CBL







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 CBL DCBL-VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 20-Oct-2021 12:00:47

Channel Processing Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
BAR(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	7673	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	ASLT-B	90	mV
CDEN	Cement Density	USIT-E	0	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	9	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	5.13	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	IBC_FRP_OFFSET	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Theoretical	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.37	us
MSA	Minimum Sonic Amplitude	ASLT-B	0.55	mV
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.09	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.6	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	25	dB/m
UFSFLT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	ThirdInterfaceEcho	
ZMUD	Acoustic Impedance of Mud	Borehole	1.75	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	12.25	0	955
BS	7.875	955	7145

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	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	
MODE	SSLT Firing Mode	ASLT-B	Attenuation	
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	
VDM	SSLT VDL Display Mode	ASLT-B	R5	
VRES	Vertical Resolution	USIT-E	6.0 in	

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	10	20-Oct-2021 08:48:13	20-Oct-2021 08:49:54	7146.02	7055.42
EMXV	12	20-Oct-2021 08:49:54	20-Oct-2021 09:29:07	7055.42	4645.01
EMXV	10	20-Oct-2021 09:29:07	20-Oct-2021 09:33:58	4645.01	4348.36
EMXV	8	20-Oct-2021 09:33:58	20-Oct-2021 09:58:17	4348.36	2835.18
EMXV	6	20-Oct-2021 09:58:17	20-Oct-2021 10:24:48	2835.18	1188.39

EMXV	5	20-Oct-2021 10:24:48	20-Oct-2021 10:28:18	1188.39	981.13
EMXV	4	20-Oct-2021 10:28:18	20-Oct-2021 10:31:46	981.13	761.46
EMXV	5	20-Oct-2021 10:31:46	20-Oct-2021 10:31:54	761.46	752.3
EMXV	4	20-Oct-2021 10:31:54	20-Oct-2021 10:45:13	752.3	24.56

All depth are at tool zero.

One

Repeat Pass

Software Version

Acquisition System	Version
Maxwell 2021.1	11.1.211946.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[2]:Up	Up	1694.34 ft	2200.60 ft	20-Oct-2021 8:05:48 AM	20-Oct-2021 8:14:53 AM	ON	-1.83 ft	Yes

All depths are referenced to toolstring zero

Log	Company: Occidental Petroleum Inc Well: Cooley 13-16 One: Log[2]:Up:S005
------------	--

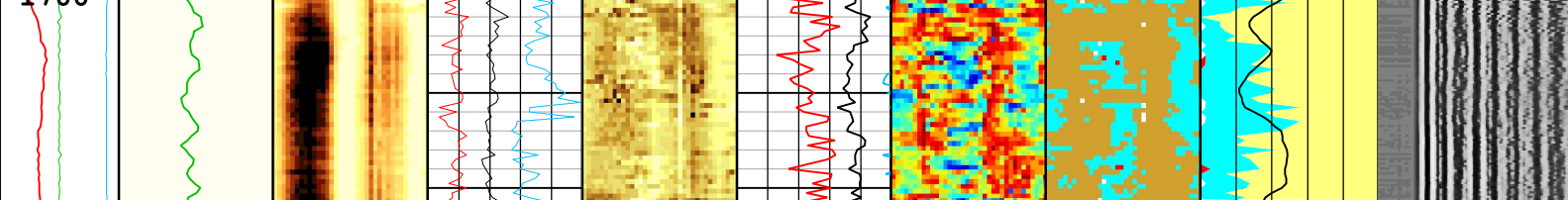
Description: USI IBC SLG Format: Log (IBC SLG CBL DCBL-VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 20-Oct-2021 12:01:50

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

<p>Casing Collar Locator Ultrasonic (CCLU) USIT-E</p> <p>-20 in 20</p>	<p>Amplitude of Eccentricity (ECCE) USIT-E</p> <p>0 in 0.5</p>	<p>Motor Revolution Speed (RSAV) USIT-E</p> <p>6 c/s 7.5</p>	<p>Gamma Ray (ECGR_EDTC) EDTC-B</p> <p>0 gAPI 150</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>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>SLG Solid Index</p> <p>SLG Liquid Index</p> <p>SLG Gas Index</p>	<p>SLG White Point Index</p> <p>CBL Amplitude (CBL) ASLT-B</p> <p>0 mV 100</p>	<p>Min Amplitude</p> <p>VDL Variable Density (VDL) ASLT-B</p> <p>200 us</p>
--	--	--	---	---	---	---	--	--	--	---	--	---



1800

1900

RSAV

ECCE

CCLU

ECGR ETC

AIMN

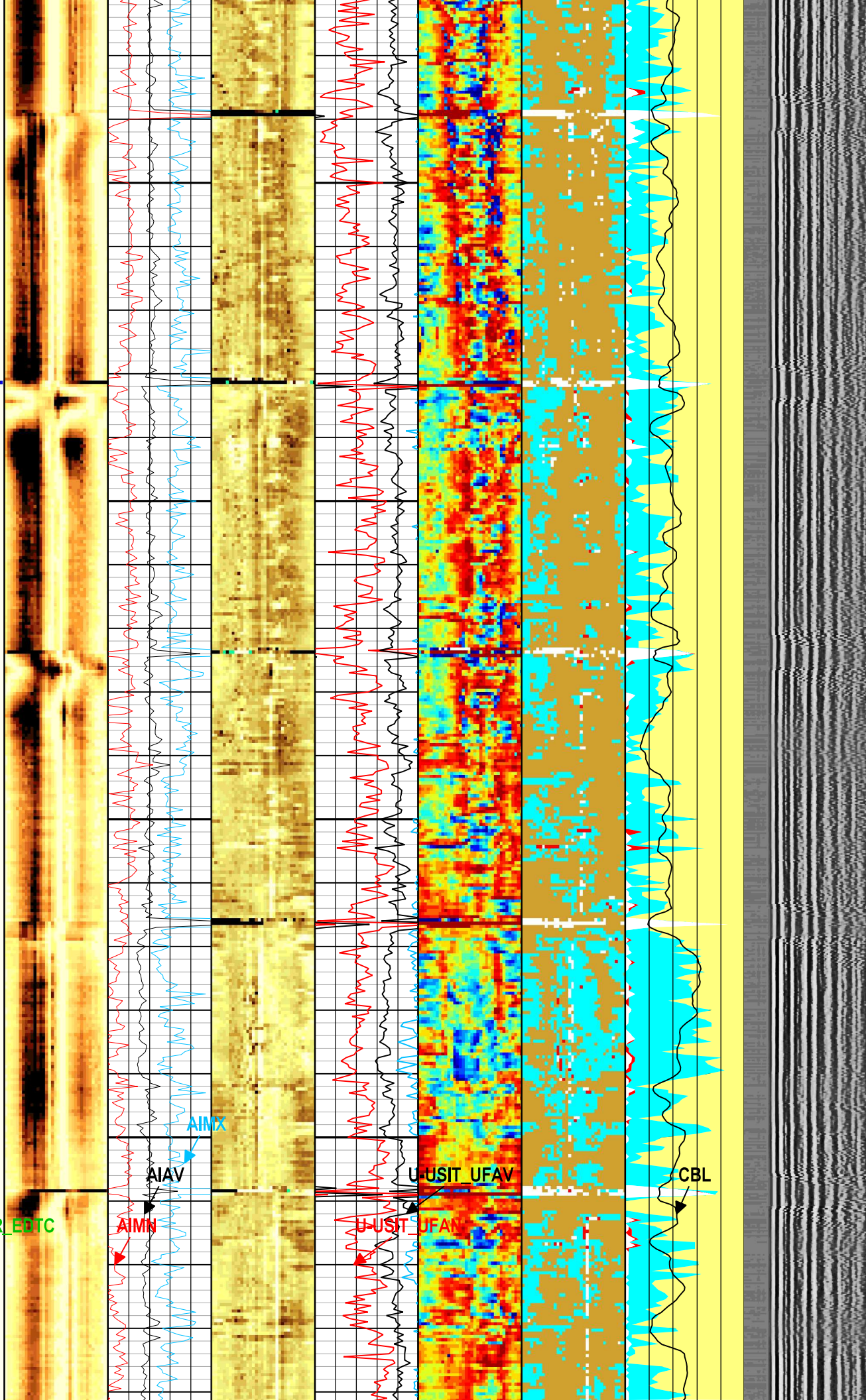
AIIV

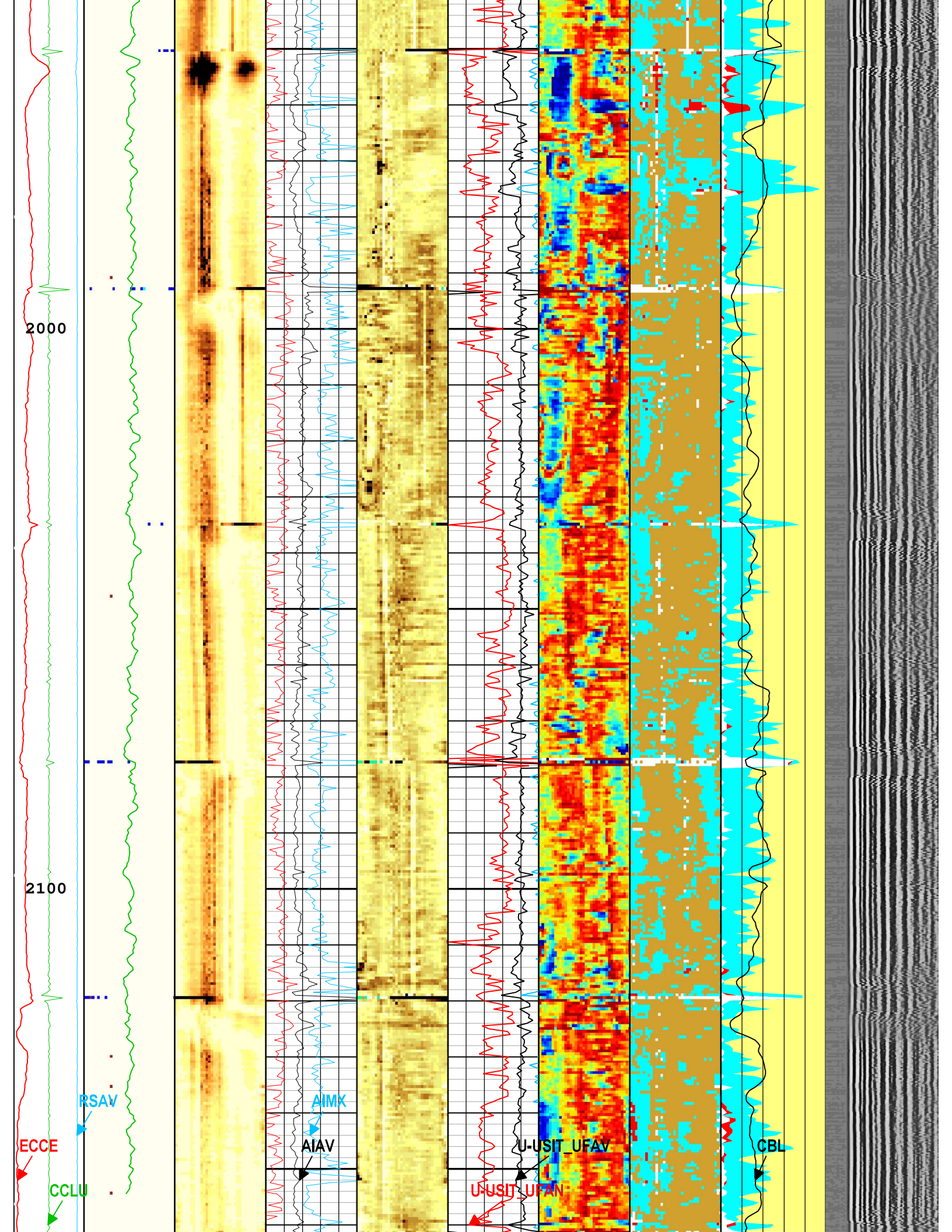
AIMX

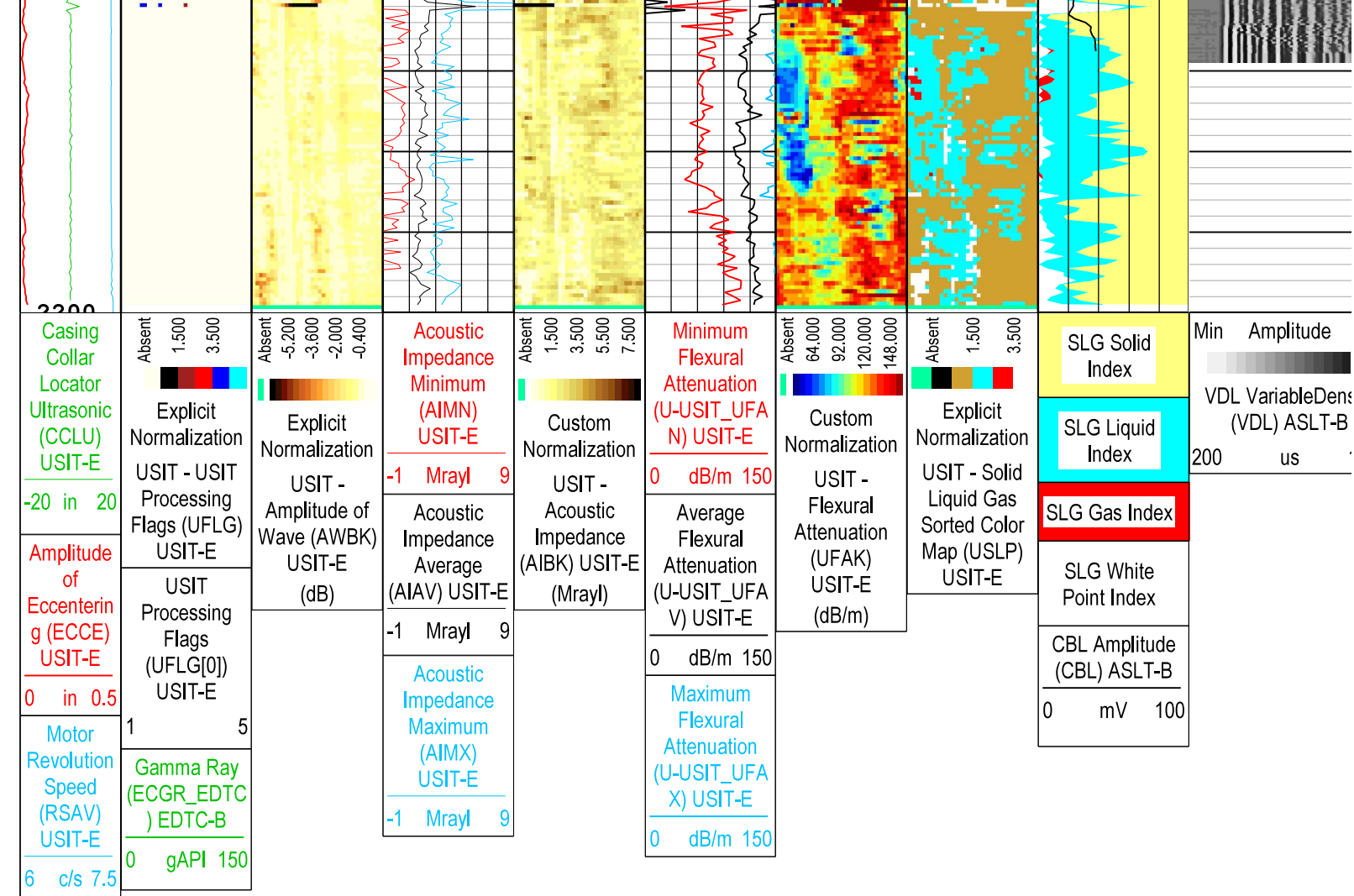
U-USIT UFAV

U-USIT UFAN

CBL







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 CBL DCBL-VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 20-Oct-2021 12:01:50

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	7.875	in
CBLO	Casing Bottom (Logger)	WLSESSION	7673	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	ASLT-B	90	mV
CDEN	Cement Density	USIT-E	0	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft

FD	Fluid Density	USIT-E	9	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	5.13	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	IBC_FRP_OFFSET	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Theoretical	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.37	us
MSA	Minimum Sonic Amplitude	ASLT-B	0.55	mV
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.09	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.6	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	25	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	1.75	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	54	dB
EMXV	EMEX Voltage	USIT-E	6	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	
MODE	SSLT Firing Mode	ASLT-B	Attenuation	
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	
VDM	SSLT VDL Display Mode	ASLT-B	R5	
VRES	Vertical Resolution	USIT-E	6.0 in	

XYZ

Company:Occidental Petroleum Inc Well:Cooley 13-16

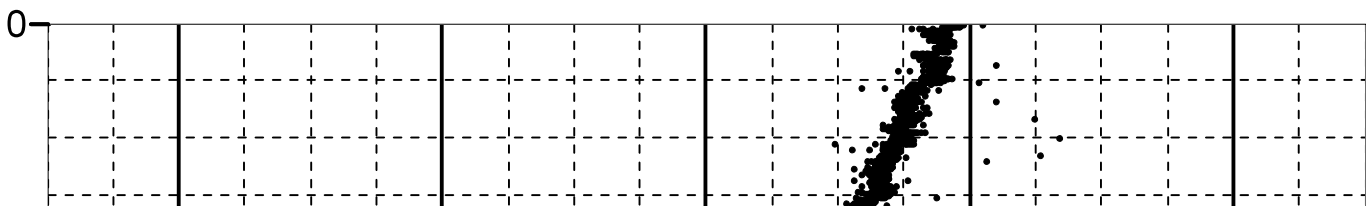
One: Log[4]:Up:S005

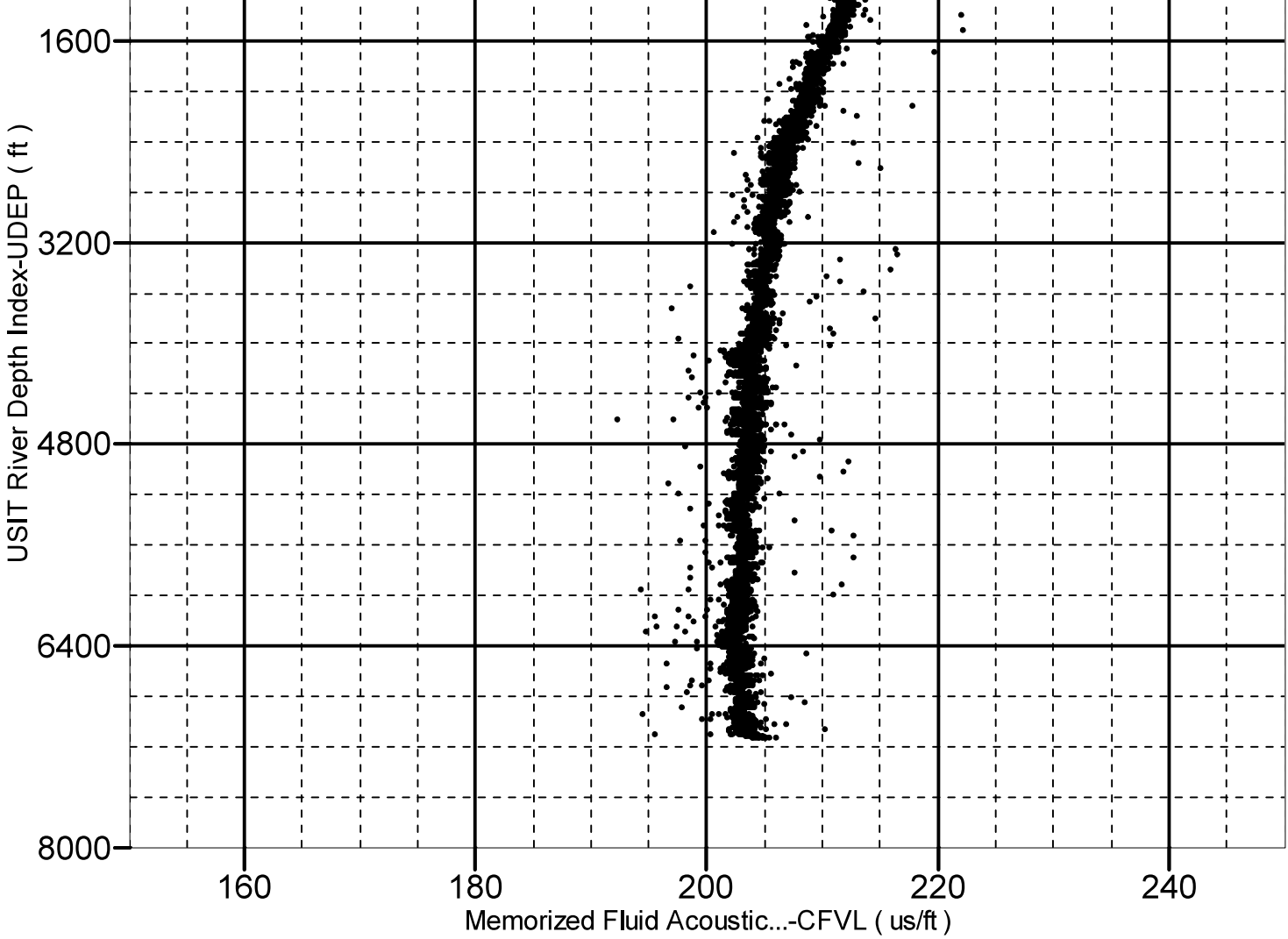
Fluid Acoustic Slowness vs Depth

2D Cross Plot

Index Range: From 7145.00 to 24.00 ft

● CFVL-UDEP





XYZ

Company:Occidental Petroleum Inc Well:Cooley 13-16

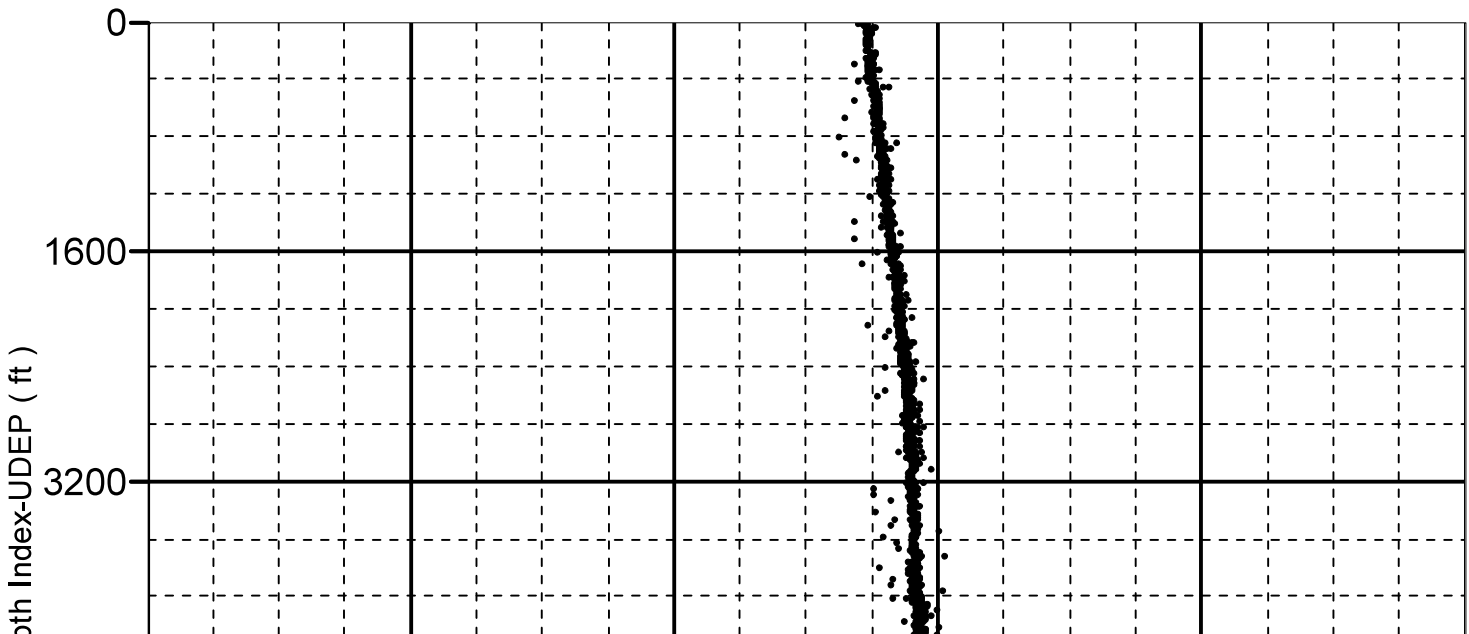
One: Log[4]:Up:S005

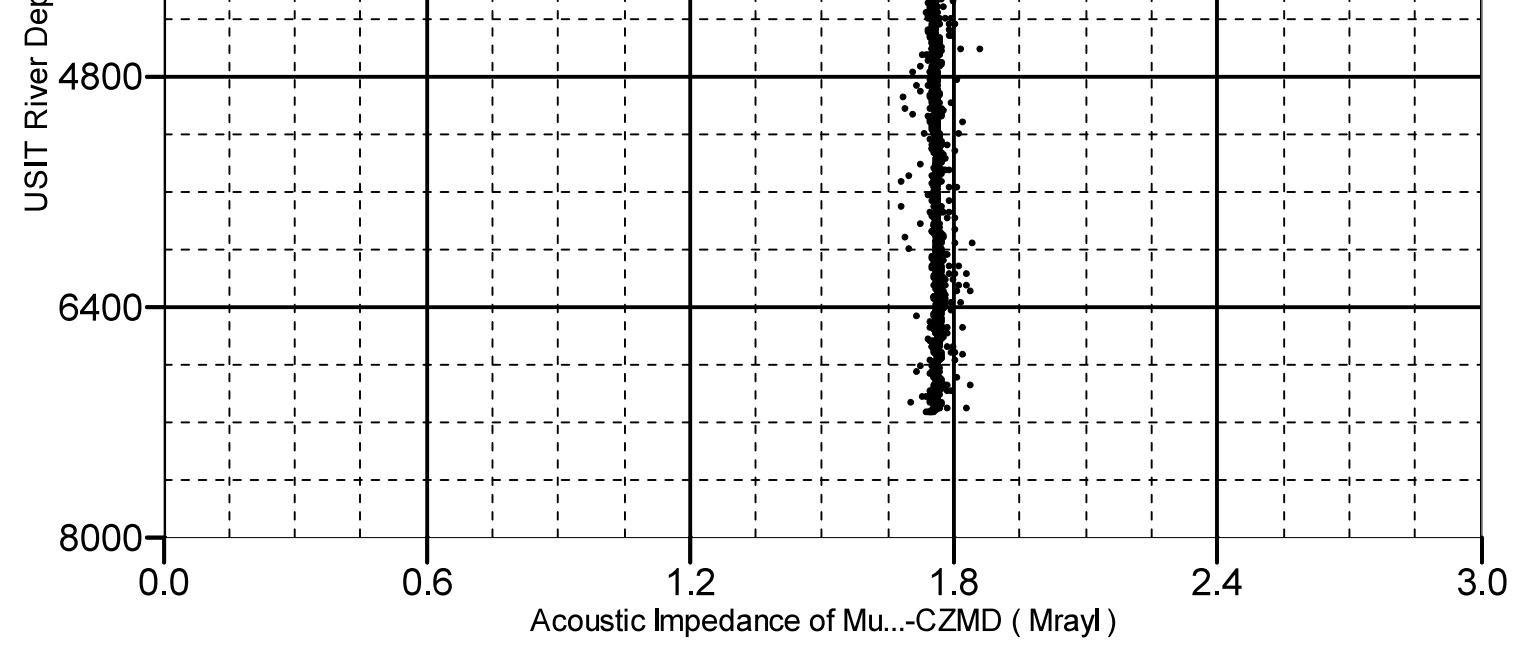
Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 7145.00 to 24.00 ft

● CZMD-UDEP





Company: Occidental Petroleum Inc

Schlumberger

Well: Cooley 13-16

Field: Wattenberg

County: Weld

State: Colorado

Isolation Scanner

Cement Bond Log

Gamma Ray - CCL