

Company: Occidental Petroleum Inc

Well: Ballantine #4-30A

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner
Cement Bond Log
Gamma Ray - CCL

County: Weld
Field: Wattenberg
Location: 470' FNL & 470' FWL
Well: Ballantine #4-30A
Company: Occidental Petroleum Inc

470' FNL & 470' FWL	Elev.:	K.B.	5002.00 ft
Sec. 30, Twn. 2N, Rng. 68W		G.L.	4990.00 ft
NW1/4		D.F.	5001.00 ft
Permanent Datum:	Ground Level	Elev.:	4990.00 f
Log Measured From:	Kelly Bushing		12.00 ft
Drilling Measured From:	Kelly Bushing		above Perm. Datum
API Serial No.	Section:	Township:	Range:
05-123-20764	30	2N	68W

Logging Date	24-Jan-2022
Run Number	ONE
Depth Driller	8138.00 ft
Schlumberger Depth	7207.00 ft
Bottom Log Interval	7207.00 ft
Top Log Interval	8.00 ft
Casing Fluid Type	Water
Salinity	
Density	8.5 lbm/gal
Fluid Level	0.00 ft
BIT/CASING/TUBING STRING	
Bit Size	7.88 in
From	758.00 ft
To	7207.00 ft
Casing/Tubing Size	4.5 in
Weight	11.6 lbm/ft
Grade	L80
From	0.00 ft
To	8131.00 ft
Max Recorded Temperatures	207 degF
Logger on Bottom	24-Jan-2022
Unit Number	9115
Recorded By	J. Knapp / T. Mozena
Witnessed By	William Dean

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.

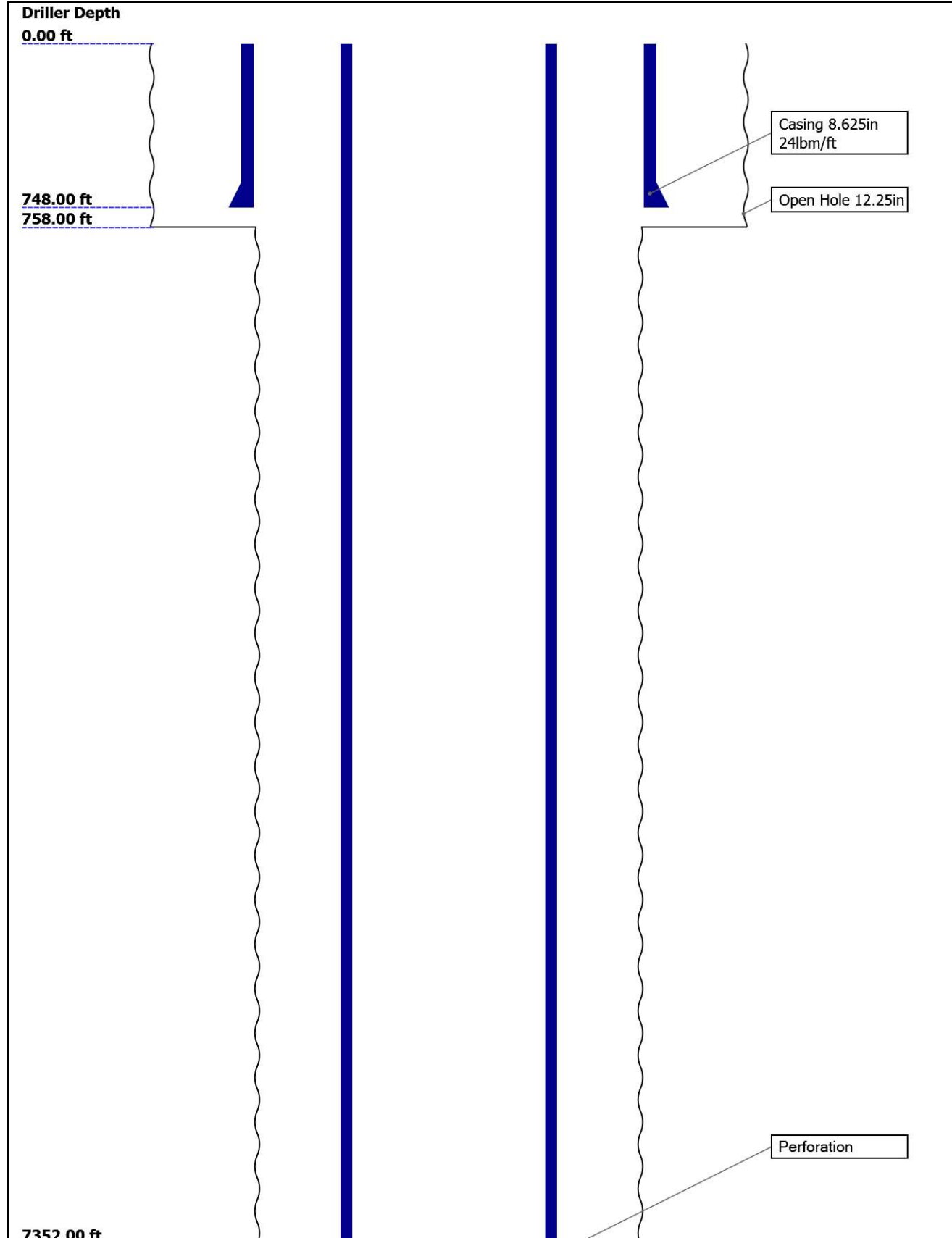
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Well Sketch



7370.00 ft

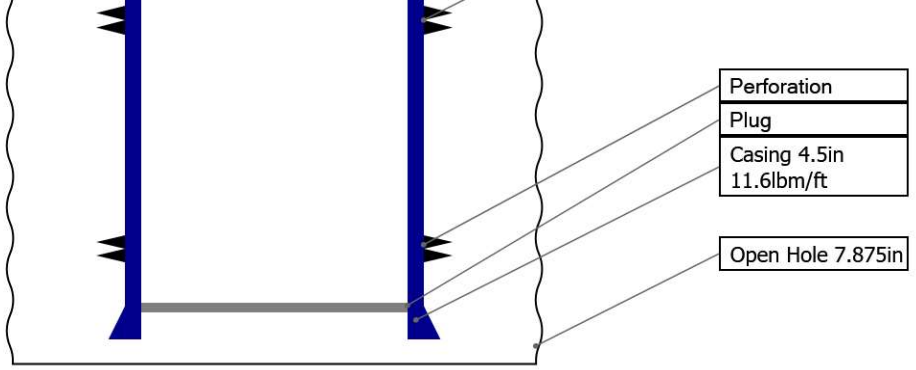
7990.00 ft

8000.00 ft

8101.00 ft

8131.00 ft

8138.00 ft



Perforation
 Plug
 Casing 4.5in
 11.6lbm/ft
 Open Hole 7.875in

Borehole Size/Casing/Tubing Record

Bit					
Bit Size (in)	12.25	7.875			
Top Driller (ft)	0	758			
Top Logger (ft)	0	758			
Bottom Driller (ft)	758	8138			
Bottom Logger (ft)	758	7207			
Casing					
Size (in)	8.625	4.5			
Weight (lbm/ft)	24	11.6			
Inner Diameter (in)	8.097	4			
Grade	J55	L80			
Top Driller (ft)	0	0			
Top Logger (ft)	0	0			
Bottom Driller (ft)	748	8131			
Bottom Logger (ft)	748	8131			

Remarks and Equipment Summary

ONE: Toolstring	ONE: Remarks
<p>Equip name length</p> <p>LEH-QT 49.07</p> <p>LEH-QT</p> <p>EDTC-B: 45.58</p> <p>8437</p> <p>EDTH-B:</p> <p>8423</p> <p>EDTG-A:</p> <p>77384</p> <p>EDTC-B:</p> <p>8437</p> <p>ASLT-B: 39.08</p> <p>8073</p> <p>ASLT-BB</p> <p>:8073</p> <p>CTEM 42.08</p> <p>ACCZ 0.00</p> <p>HV 0.00</p> <p>Gamma Ray 40.21</p> <p>TelStar 39.08</p> <p>CBL_UP 32.55</p>	<p>Tool was run as per tool sketch (Small Hole Kit, 2x Knuckles).</p> <p>Repeat pass recorded 300 ft off bottom.</p> <p>Main pass recorded from 7200 ft to Surface.</p> <p>IBC Resolution: 10 Deg - 6 Inch - HF</p> <p>ASLT recorded in Attenuation mode.</p> <p>Expected CBL free pipe amplitude = 80 mV.</p> <p>Max recorded temperature = 207 deg F.</p> <p>No surface pressure applied.</p>



CME-AF 24.43

AH-184 [2]:596 5 20.64

AH-184 [1]:292 6 18.64

USIT-E:9 77 16.64

ECH-MFA :1969
 USAC-A: 977
 USIS-A:2 735
 USSC-B
 IBCS-A:7 98
 FAR-SEN SOR:4775
 IBC-TX
 NEAR-SE NSOR:48 25
 IBC-TX
 USI-SEN SOR:4522
 IBC-TX
 EMITTER -SENSOR :4776
 IBC-TX

USI Sensor Head Tension 0.84
 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	
Calibration Date	
Calibrator Serial Number	
Calibration Cable Type	
Wheel Correction 1	0
Wheel Correction 2	0

Tension Device

Type	CMTD-B/A		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Number of Calibration Points	0		

Logging Cable			
Type	7-46NT-XS		
Serial Number	1234		
Length	24000.00 ft		
Conveyance Type	Wireline		
Rig Type	Land		

ONE:Depth Control Parameters		Depth Control Remarks
Log Sequence	First Log In the Well	Schlumberger depth control procedures followed
Rig Up Length At Surface	135.40 ft	IDW used as primary depth control system
Rig Up Length At Bottom	135.00 ft	Z-Chart used as secondary depth control system
Rig Up Length Correction	0.40 ft	Main and Repeat passes correlated to Down Log as reference.
Stretch Correction	7.50 ft	
Tool Zero Check At Surface	1.10 ft	

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Main[5]:Up	7207.65	32.40

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=1.03
DFD=1.02g/cm3(8.50lbm/gal)

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

SLG-CBL Main 5" = 100'

Software Version

Acquisition System	Version
Maxwell 2021.1	11.1.211946.3100
Application Patch	Wireline_Hotfix-Mandatory-2021.1_11.1.213678 Wireline_NPD-ThruBit-2021.1_11.1.213816

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Main[5]:Up	Up	32.40 ft	7207.65 ft	24-Jan-2022 8:59:41 AM	24-Jan-2022 10:52:57 AM	ON	8.25 ft	Yes

All depths are referenced to toolstring zero

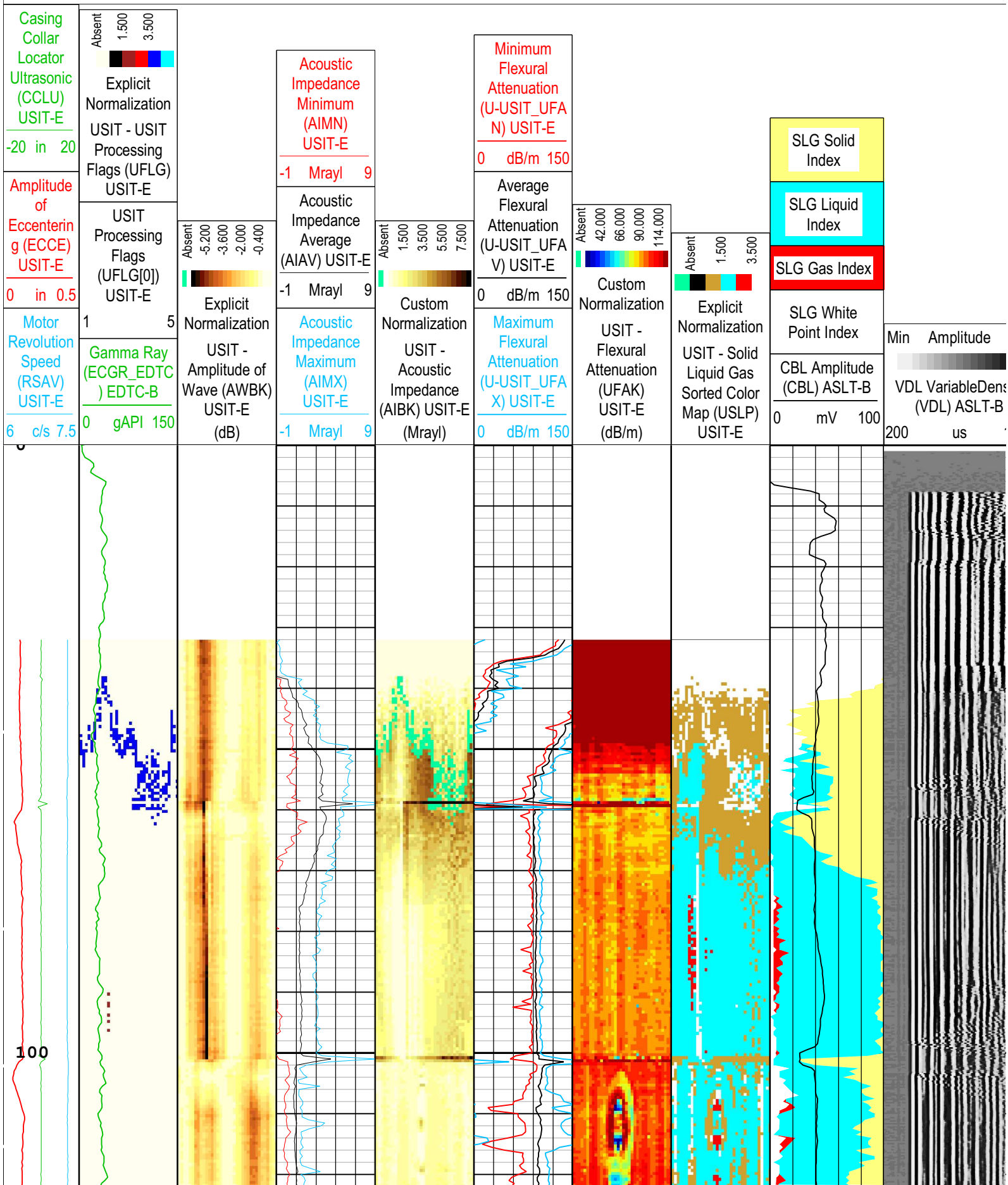
Log	Company:Occidental Petroleum Inc	Well:Ballantine #4-30A
		ONE: Main[5]:Up:S020

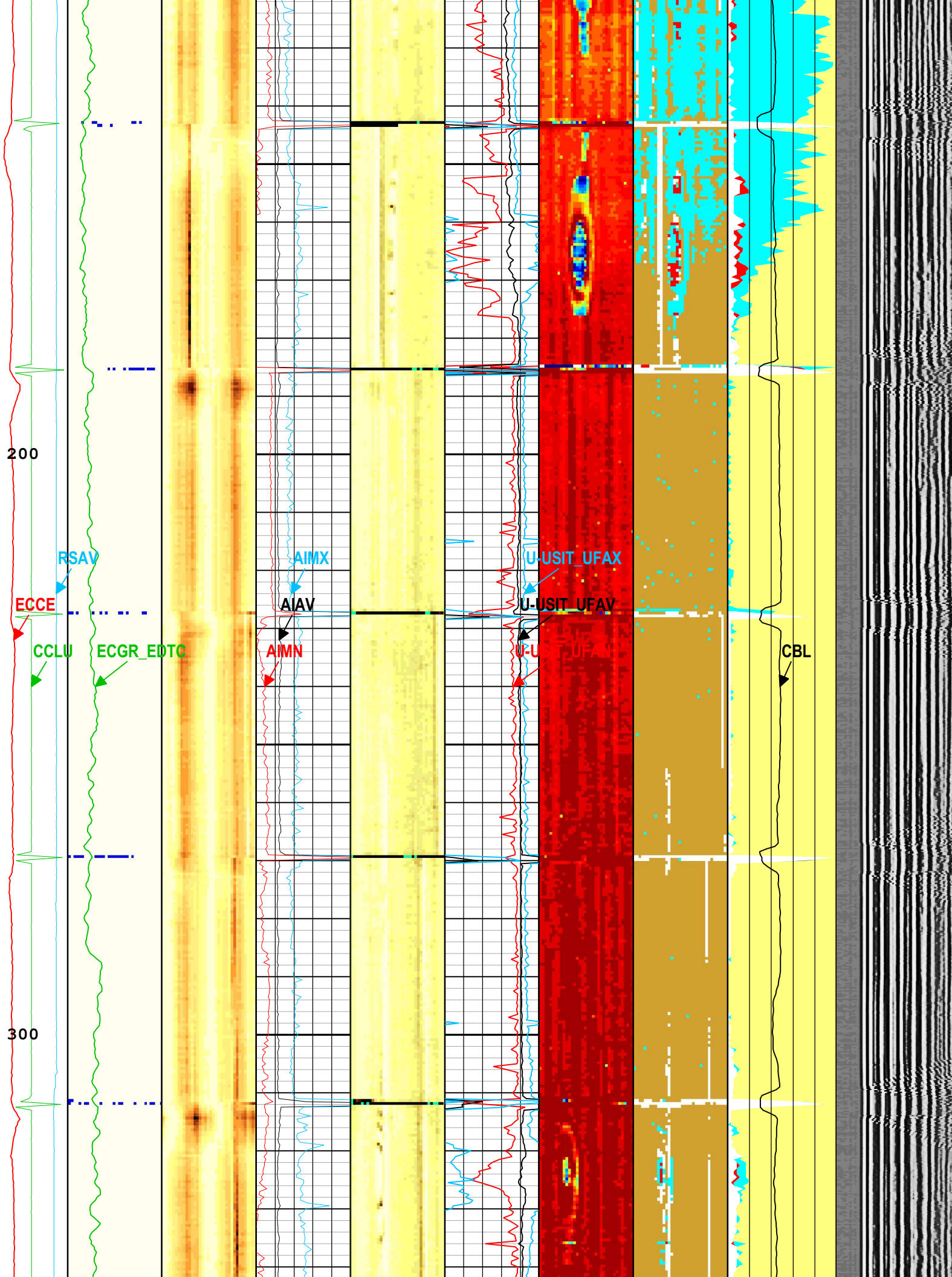
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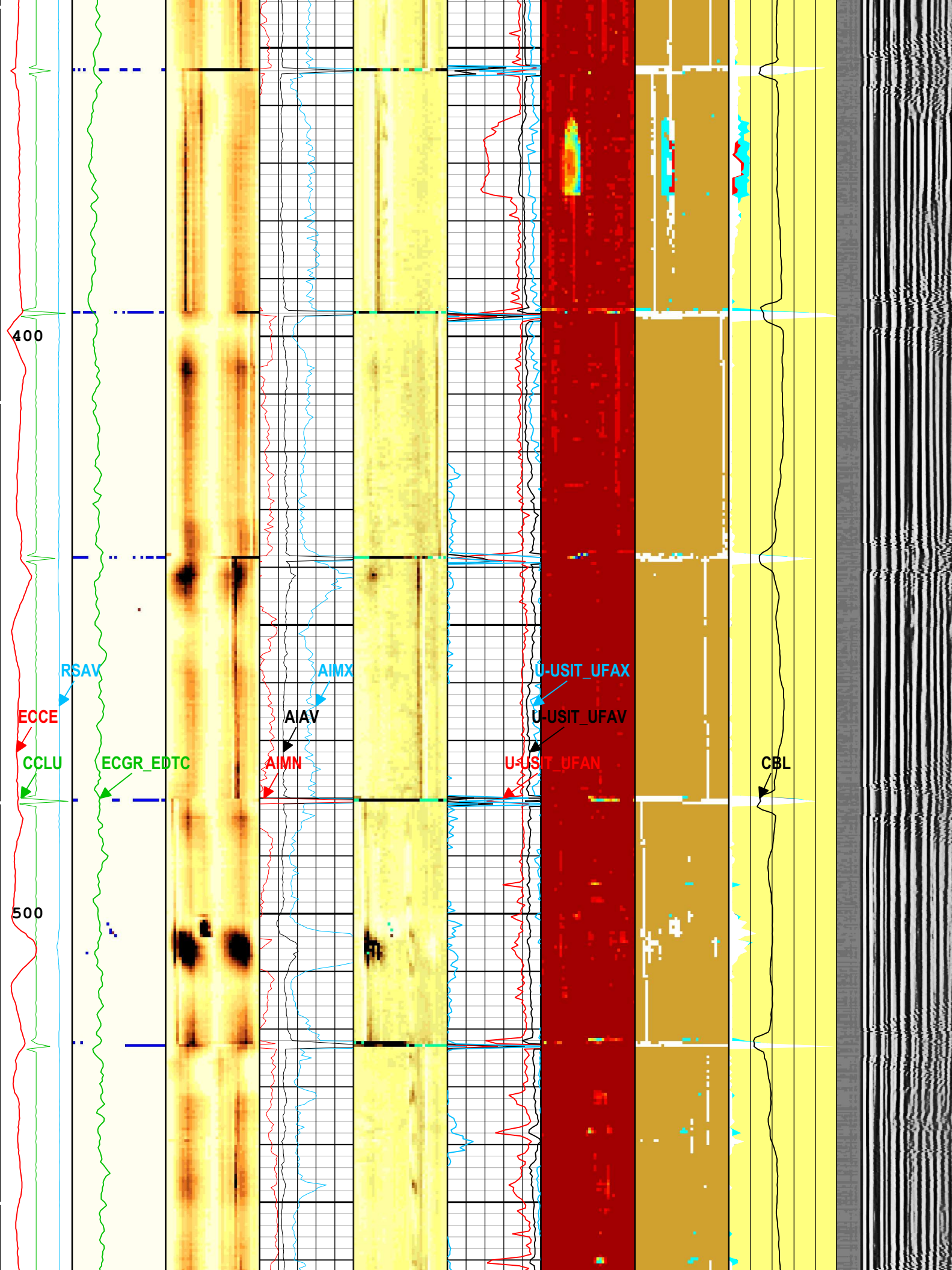
TIME_1900 - Time Marked every 60.00 (s)
USIT Processing Flow (USIT00) USIT 5

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







600

700

ECCE

CCLU

ECGR_EDTC

RSAV

AIMX

AIAV

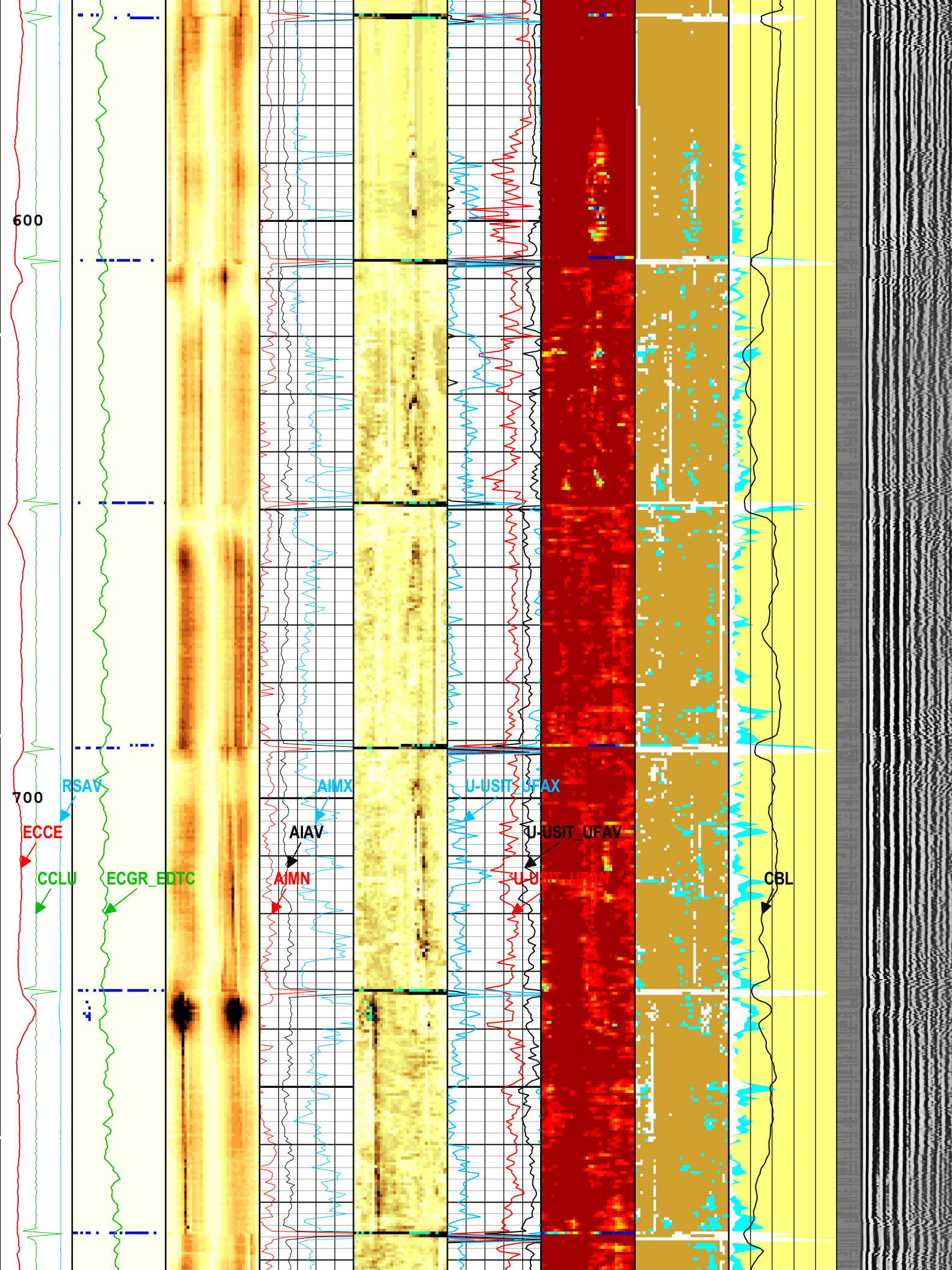
AIMN

U-USIT_SFAX

U-USIT_UFAV

U-USIT_UFAX

CBL



800

900

1000

ECCE

CCLU

ECGR EDTC

RSAV

AIAN

AIMN

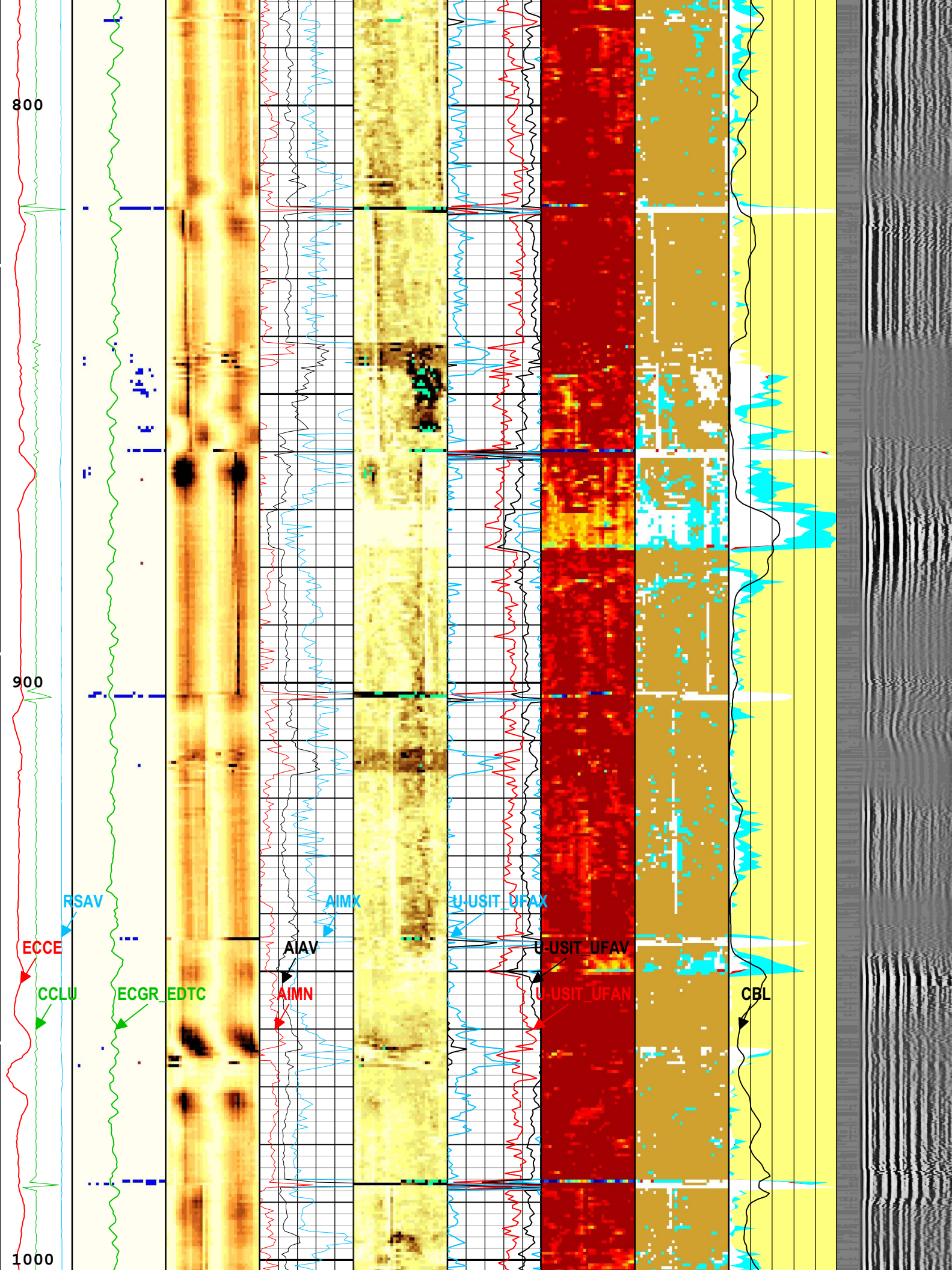
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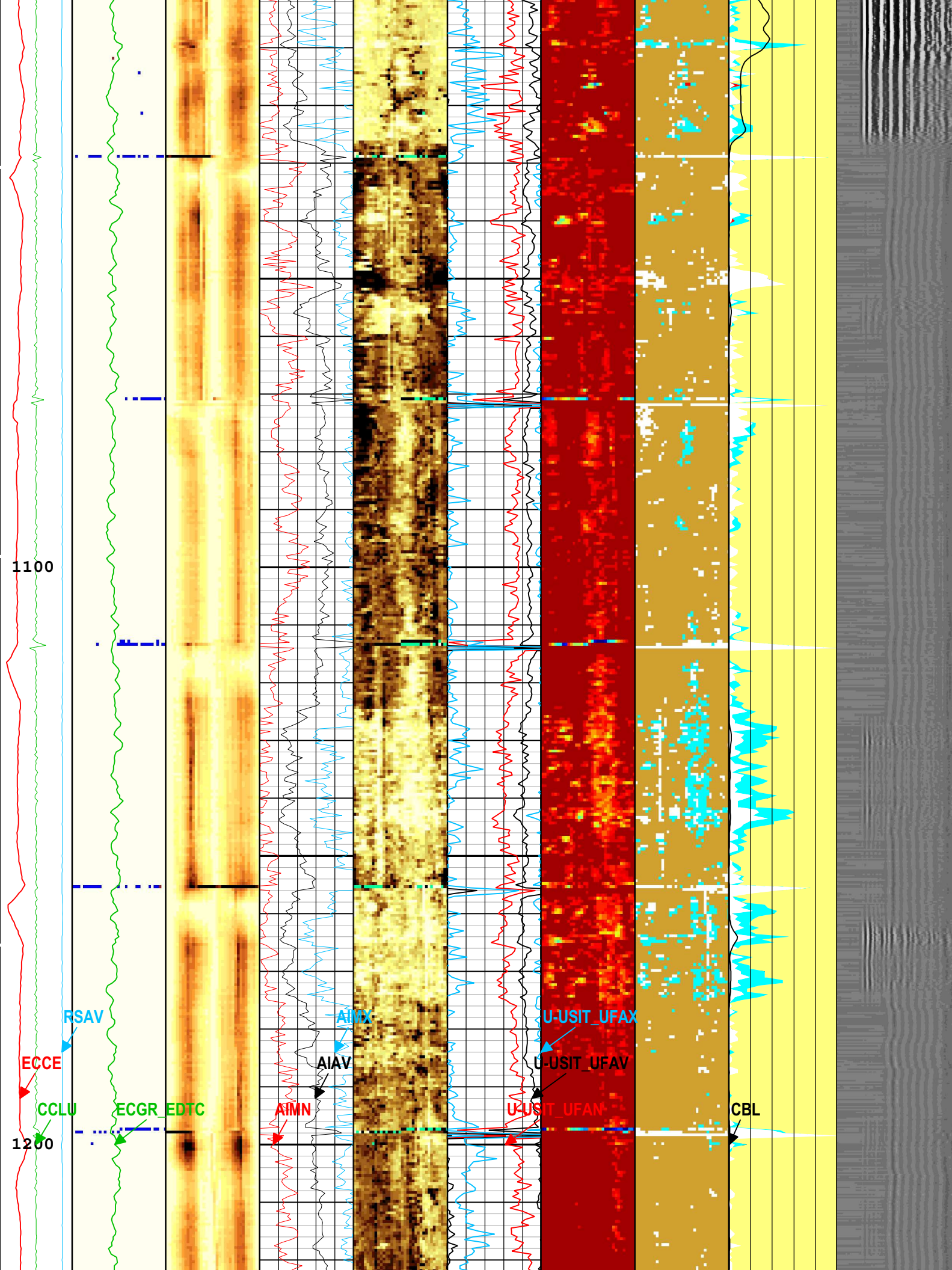
U-USIT_UFAX

U-USIT_UFAV

U-USIT_UFAN

CBL





1300

1400

ECCE

CCLU

ECGR_EDTC

RSAV

AIMN

AIAV

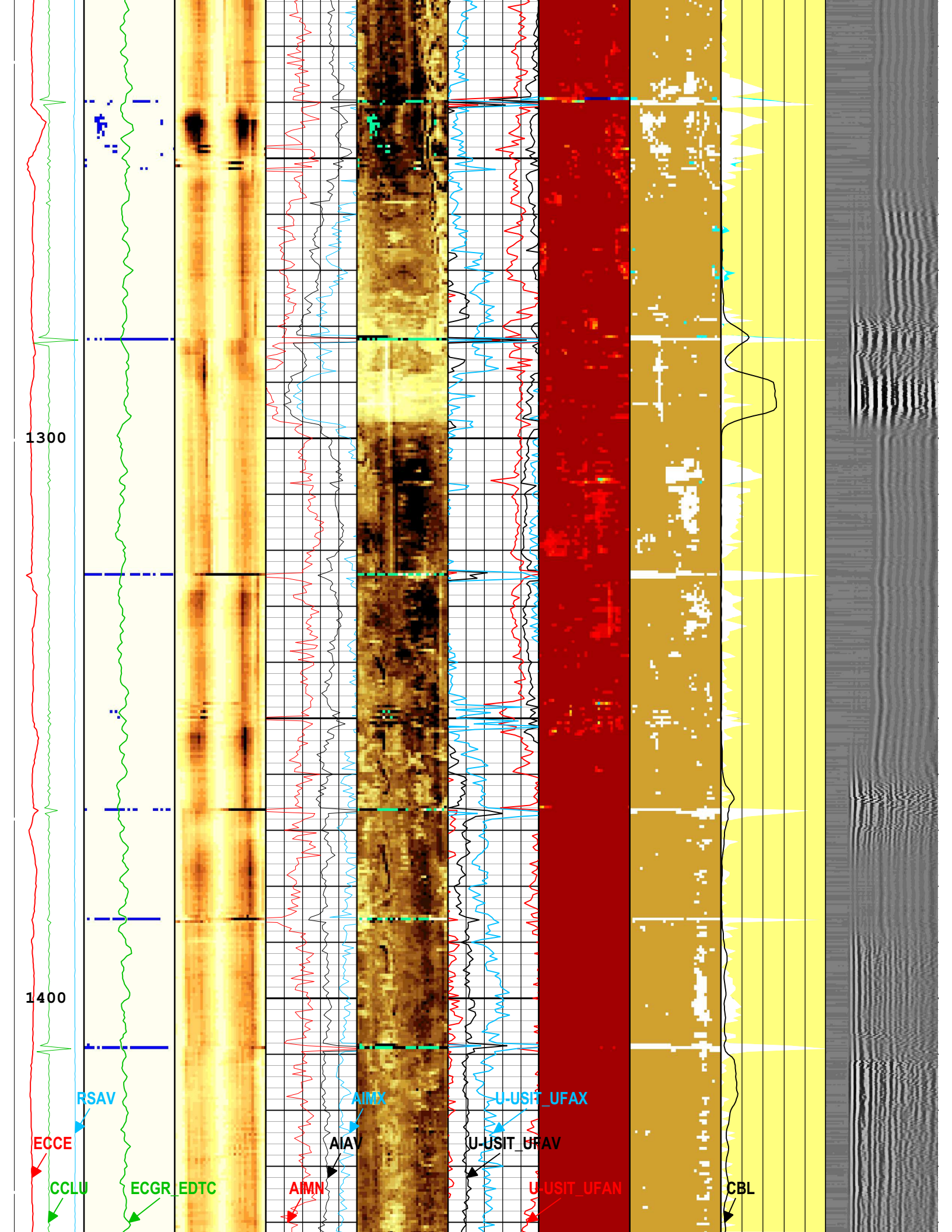
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U-USIT_UFRAV

U-USIT_UFAN

U-USIT_UFAX

CBL



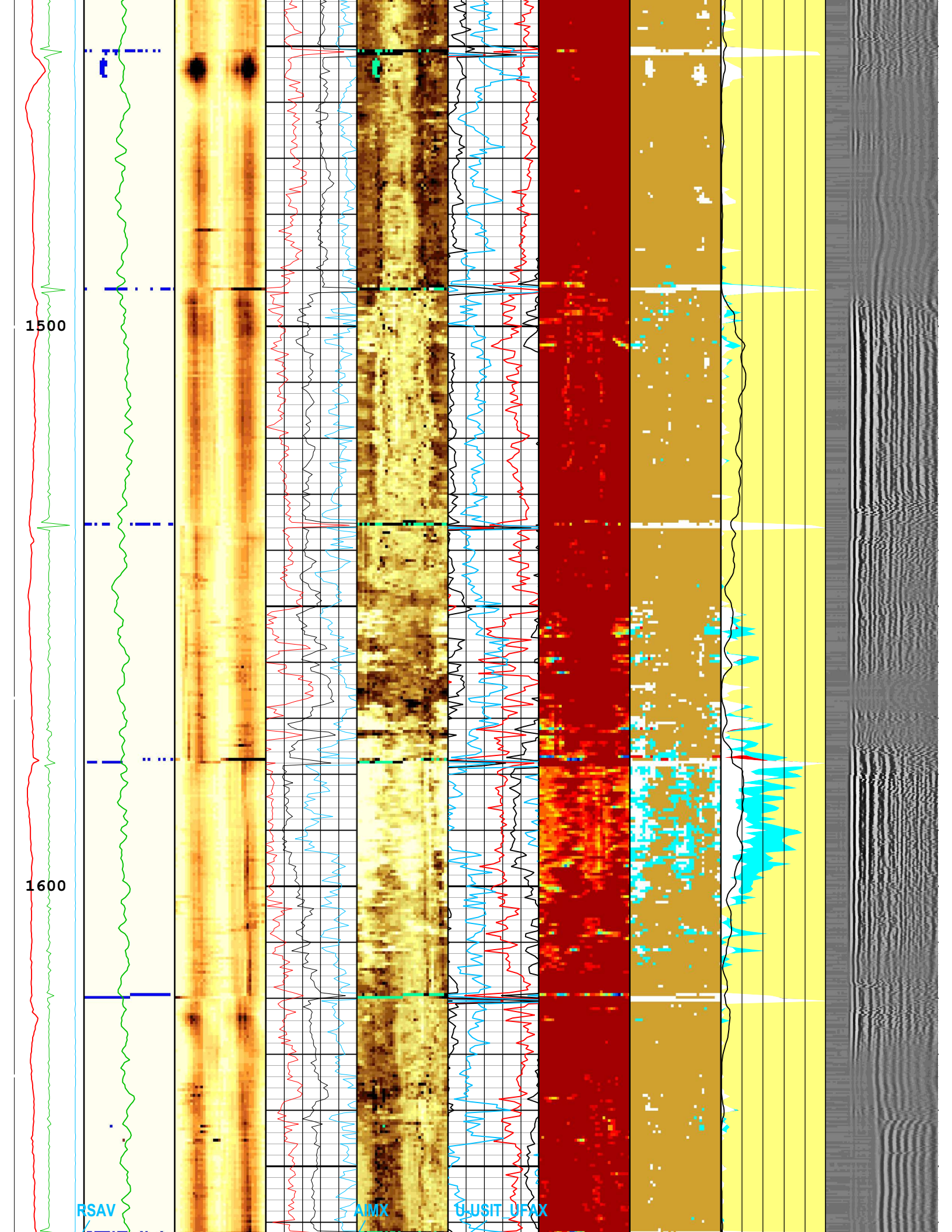
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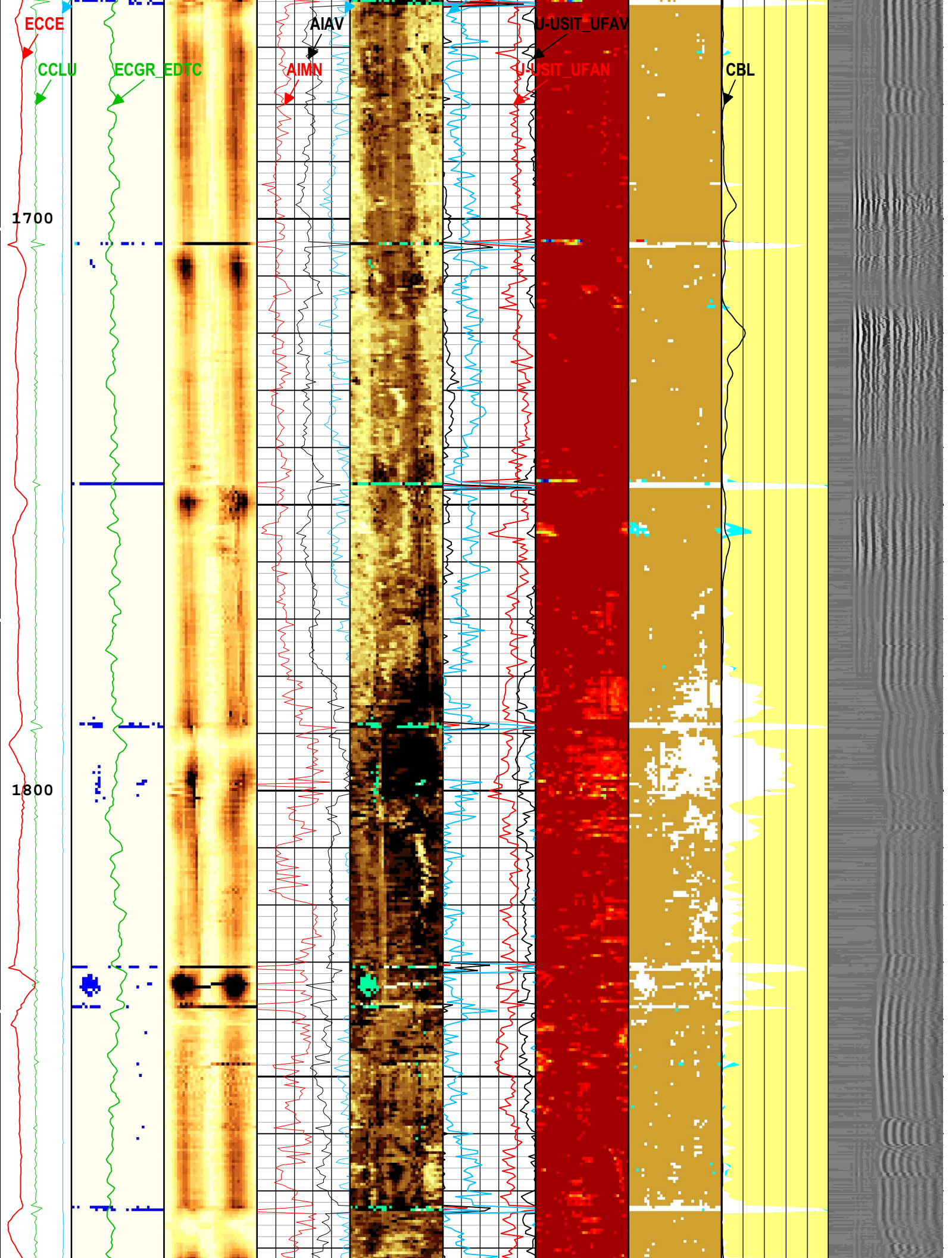
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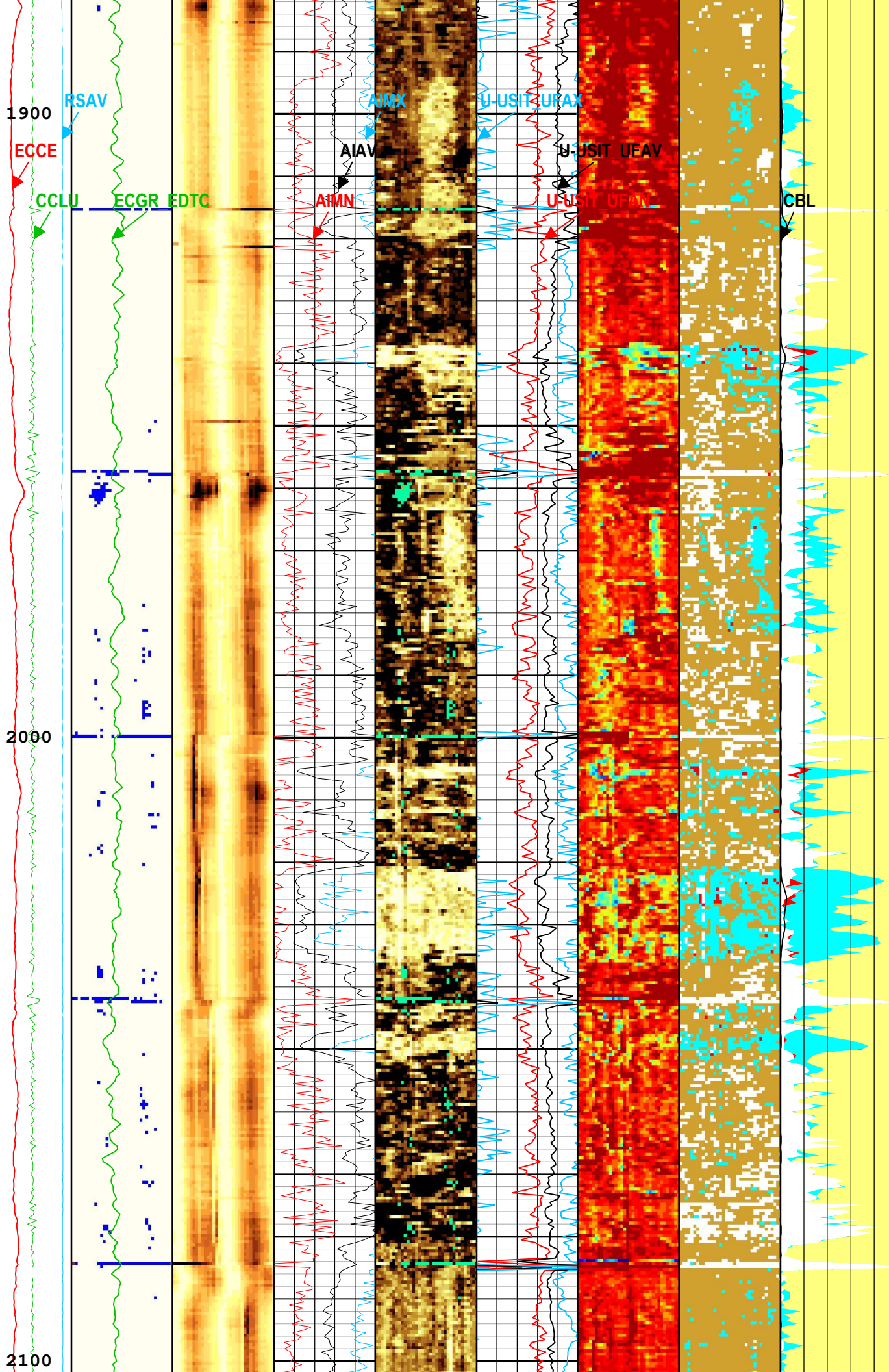
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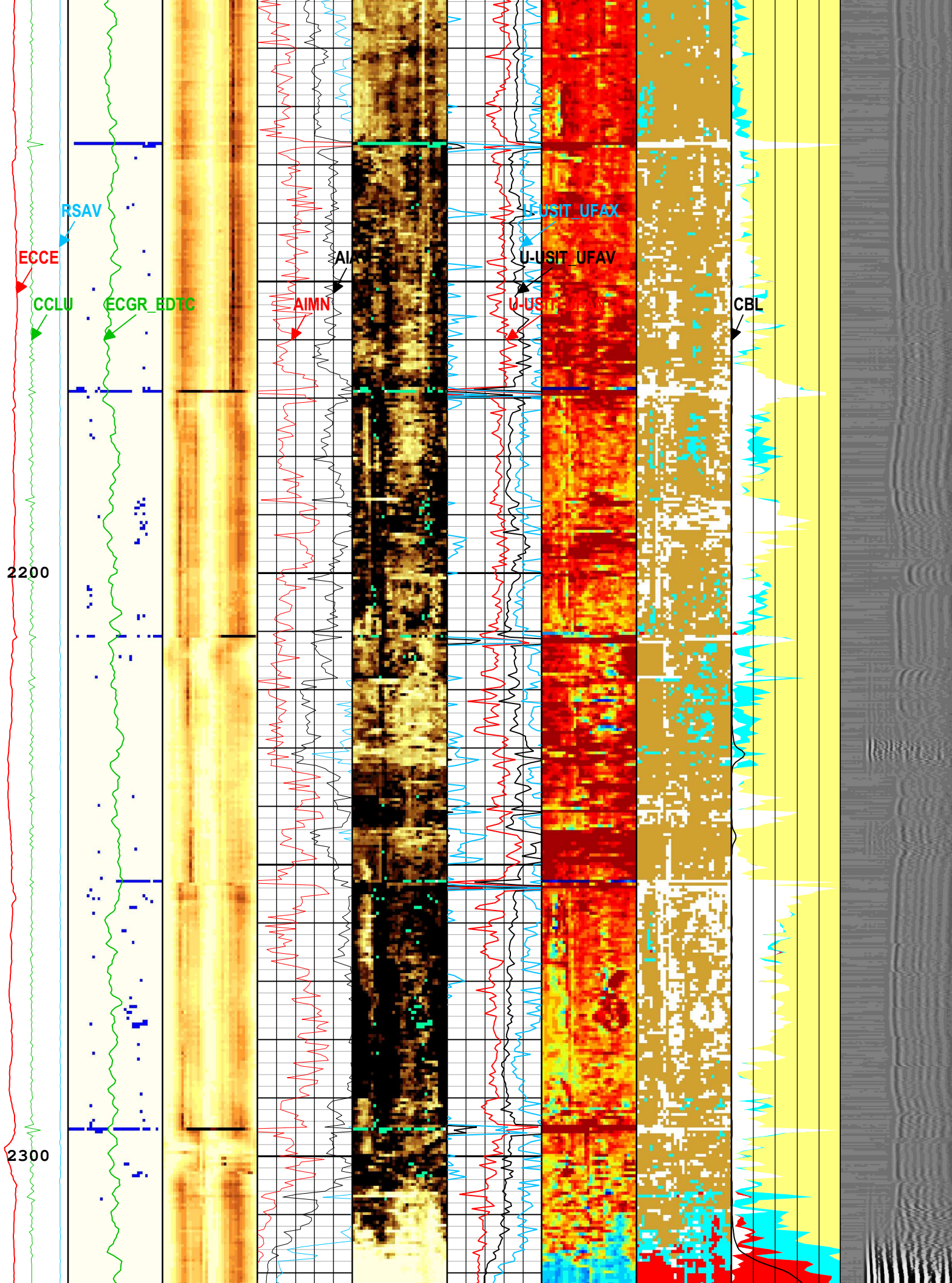
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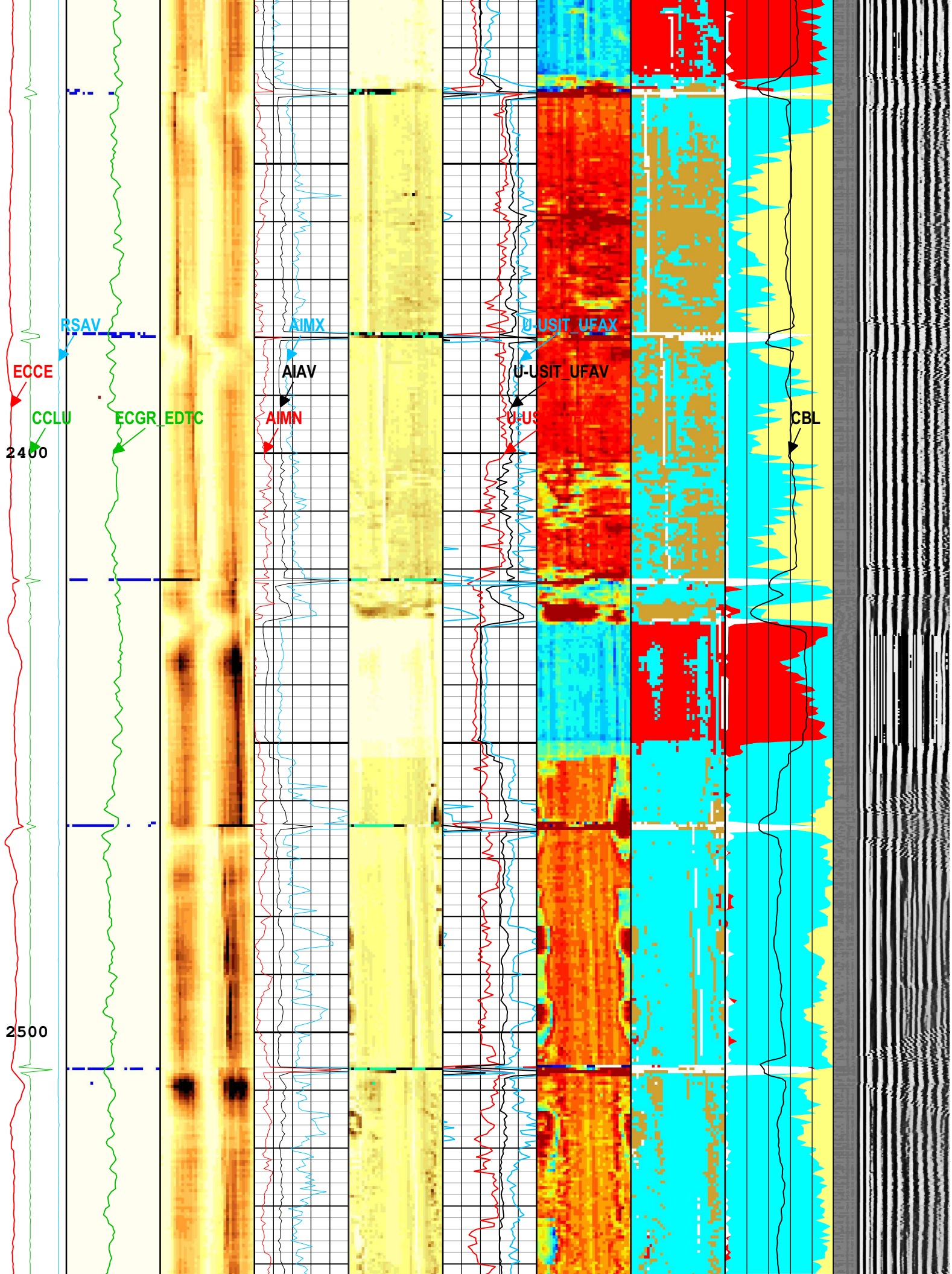
USIT UFAX





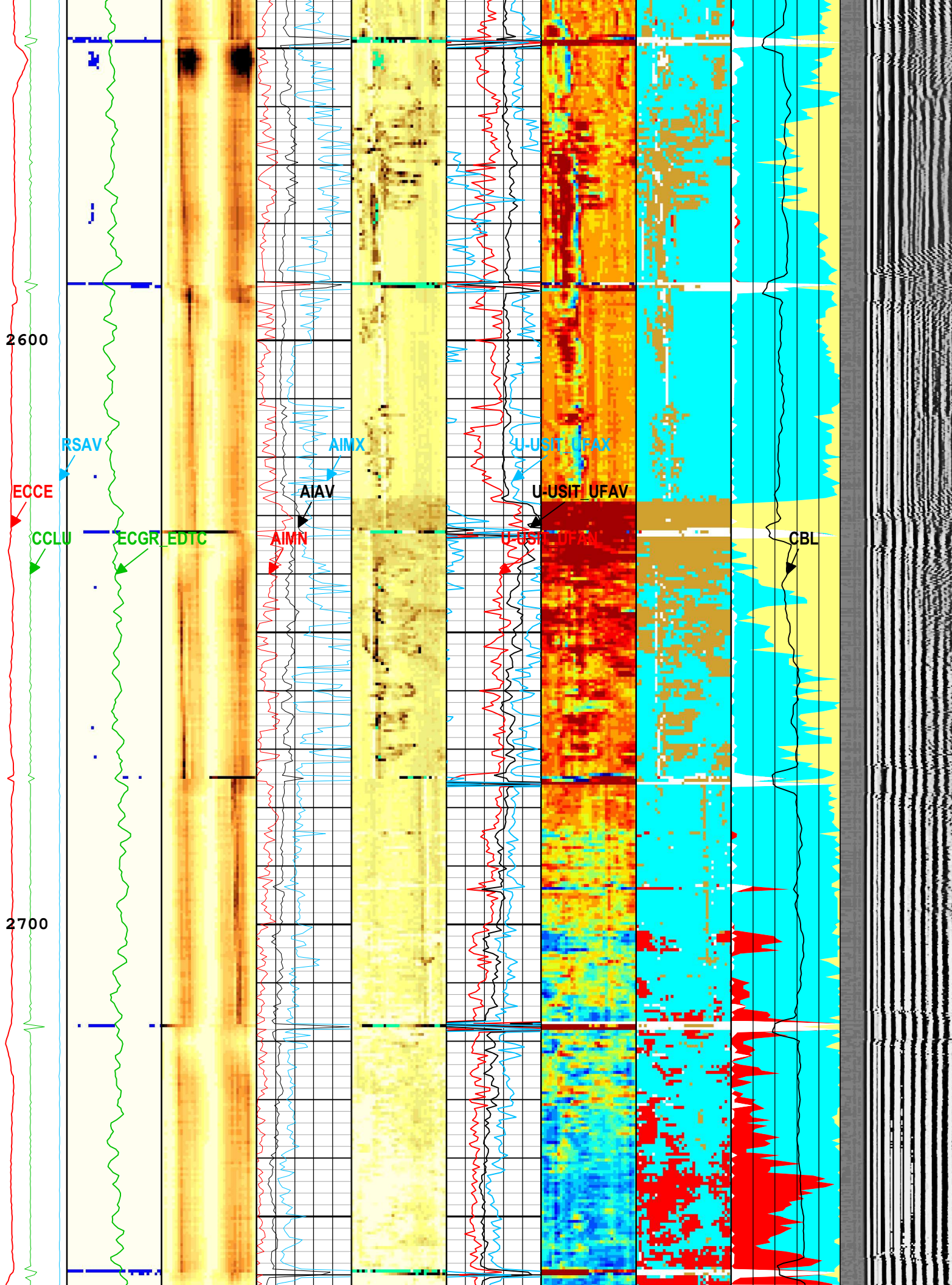






2600

2700



2800

2900

ECCE
CCLU
ECGR_EDTC

RSAV

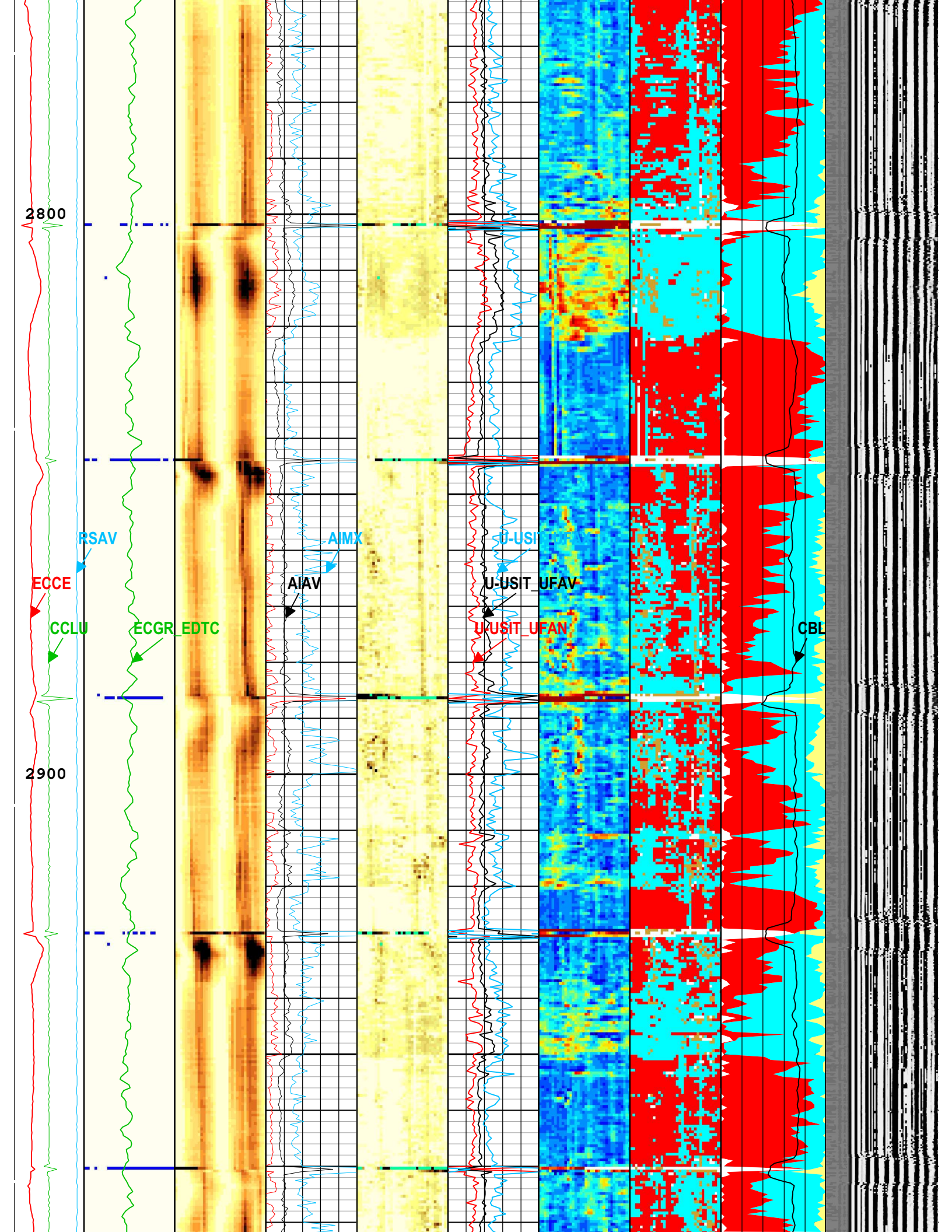
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AIAV

U-USIT UFAV

U-USIT UFAN

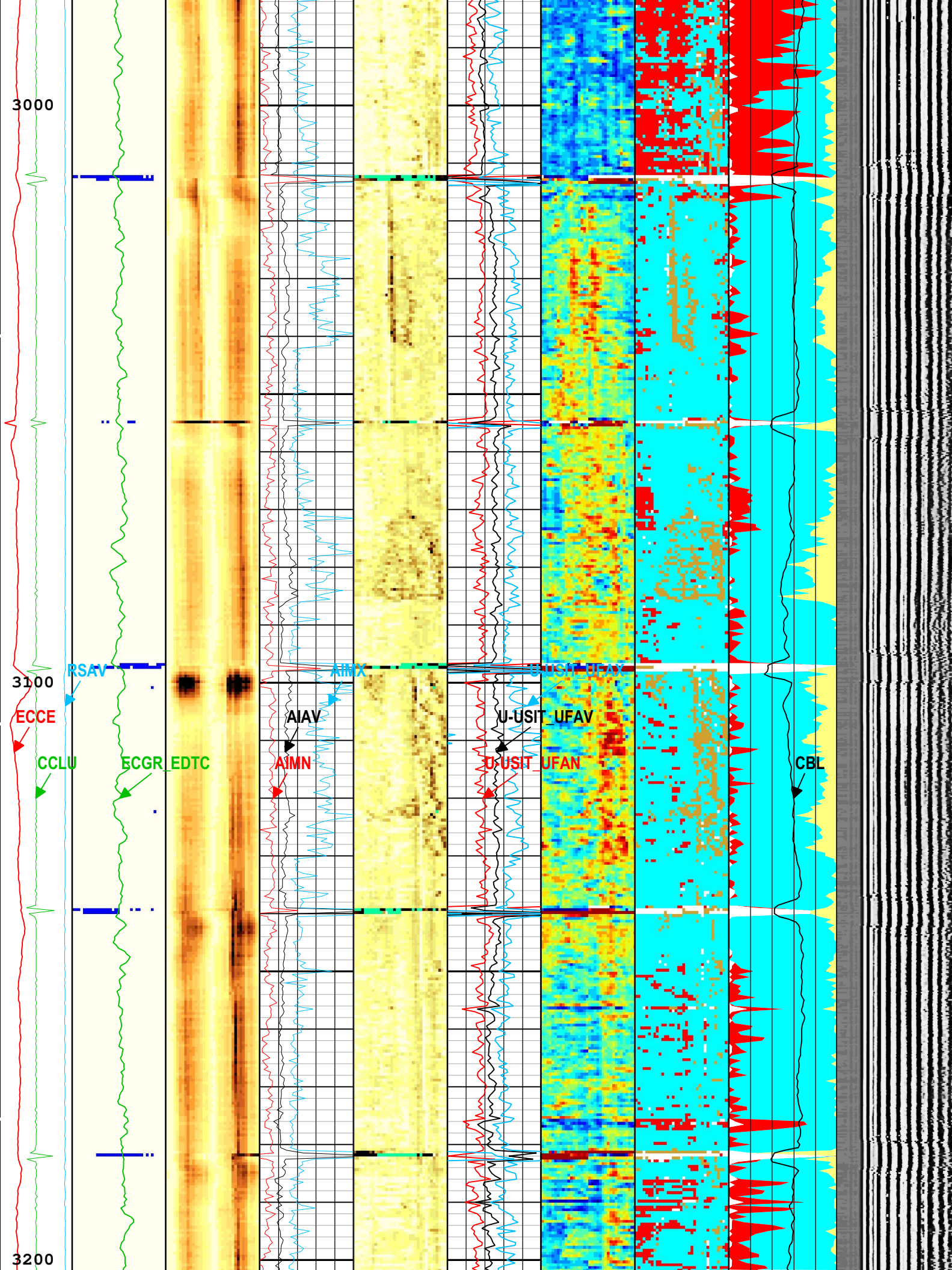
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3000

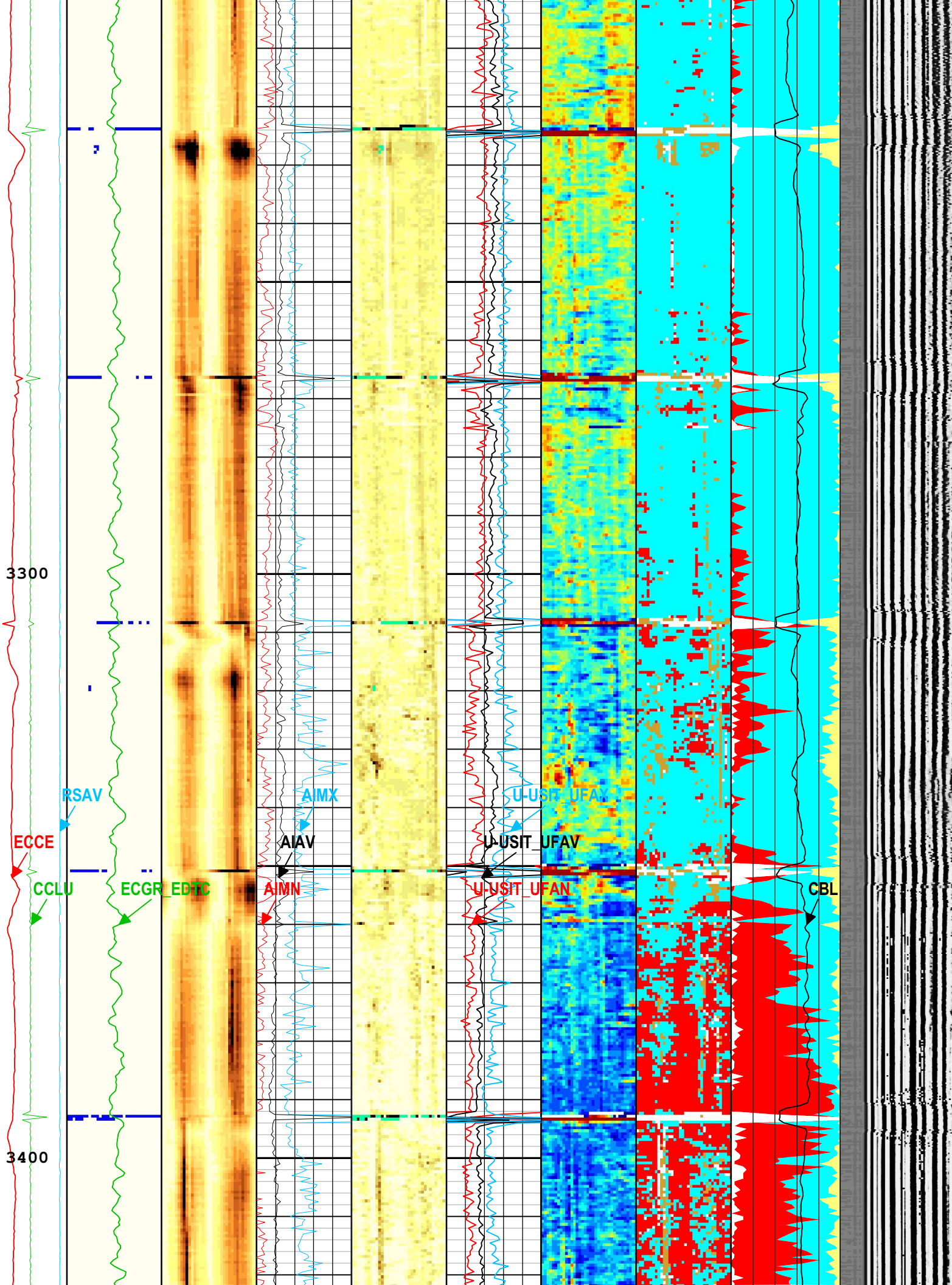
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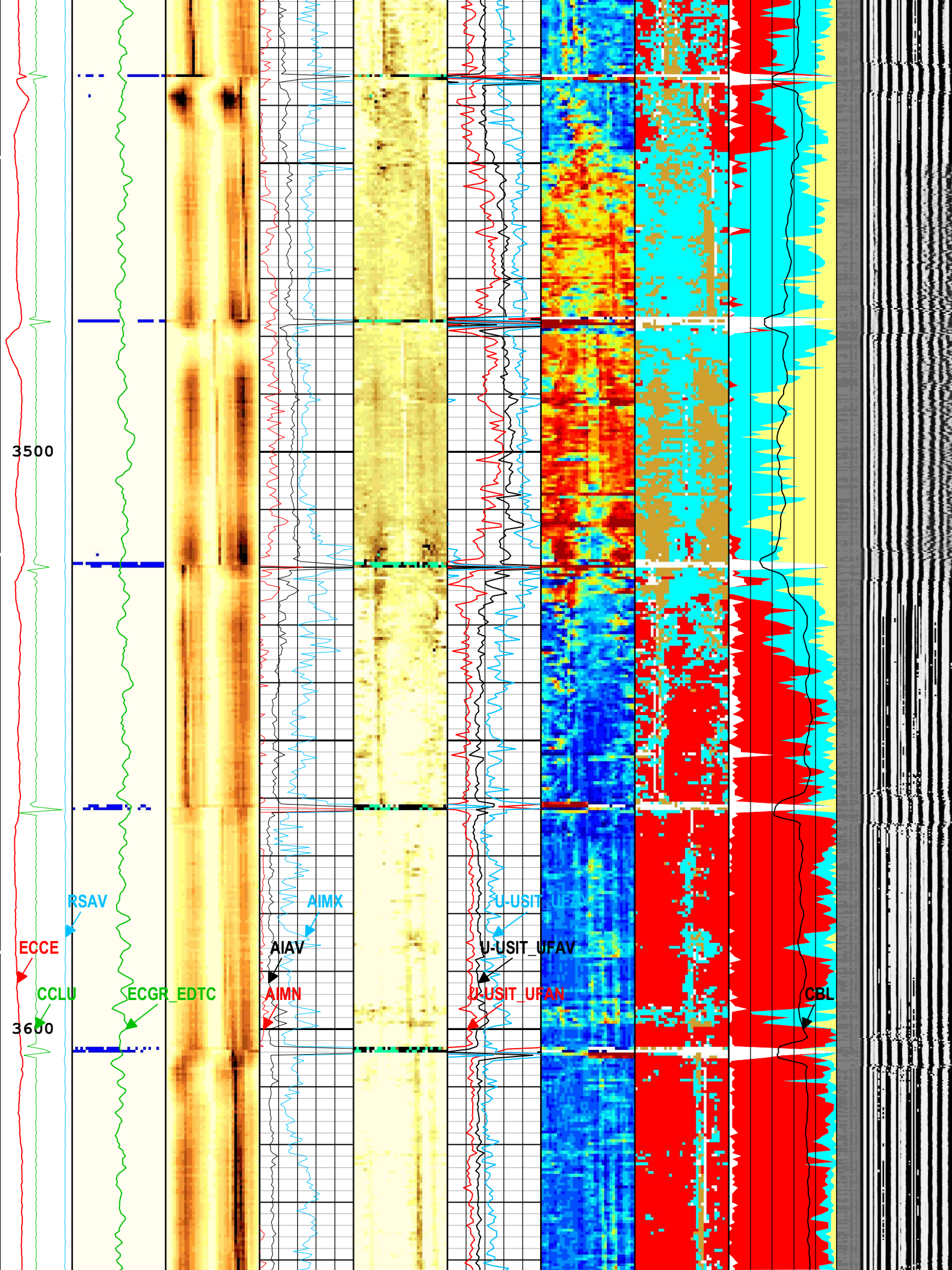
3200



3300

3400





3700

3800

RSAV

ECCE

CCLU

ECGR_EDTC

AIMX

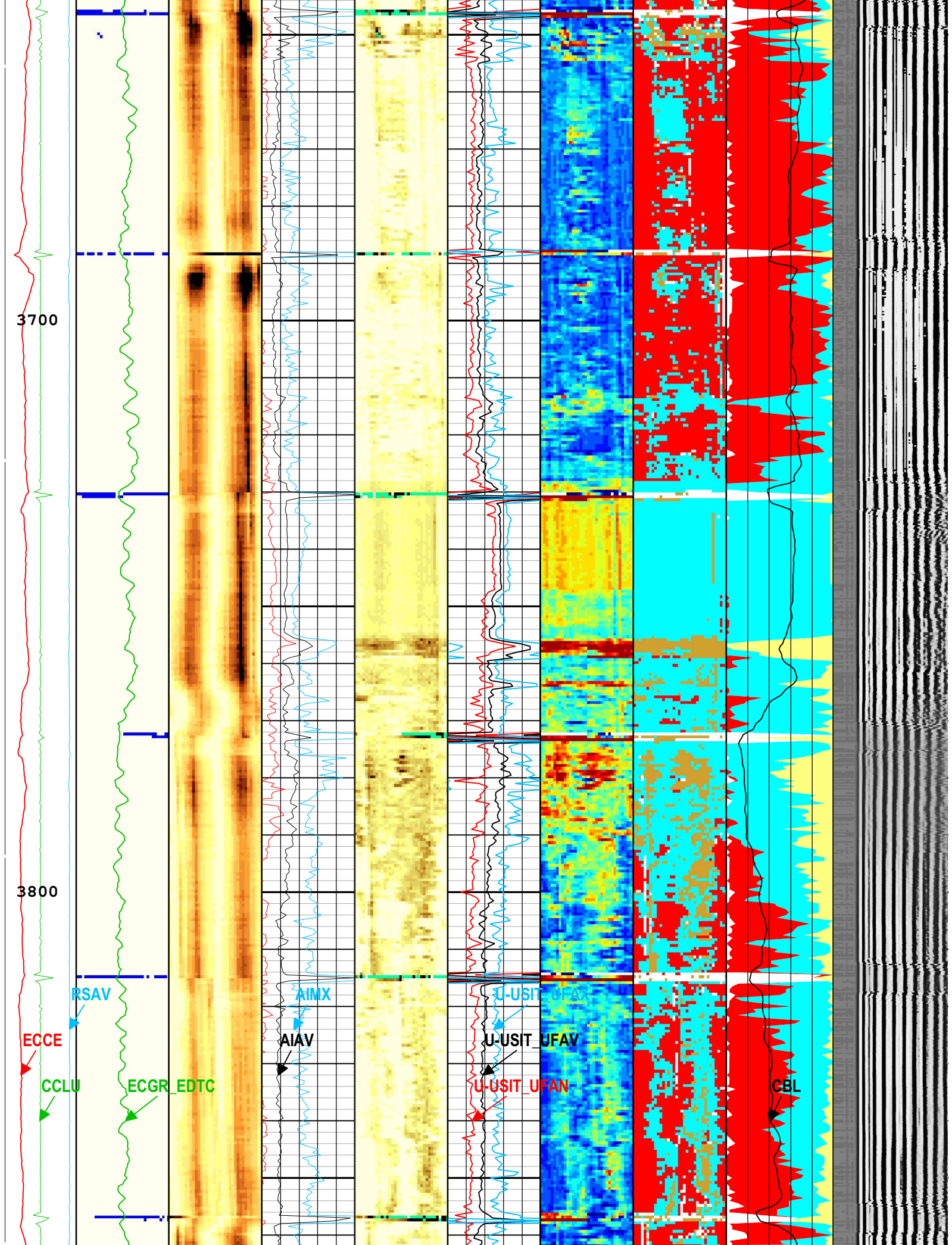
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U-USIT_UFAN

U-USIT_UFAV

U-USIT_UFAN

CBL



3900

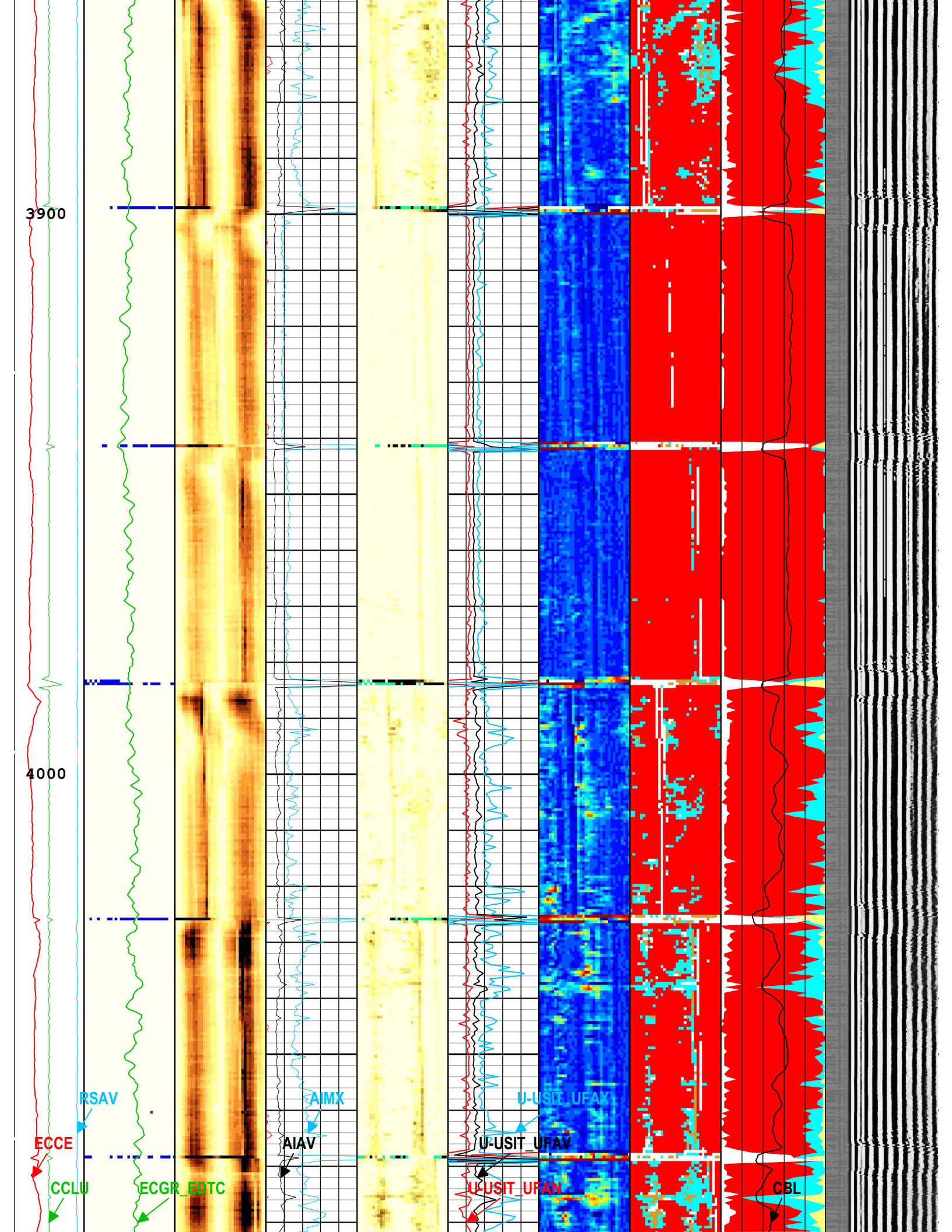
4000

ECCE
CCLU
ECGR_EDTC

AIMX
AIAV

U-USIT_UFAK
U-USIT_UFAV
U-USIT_UFAN

CBL



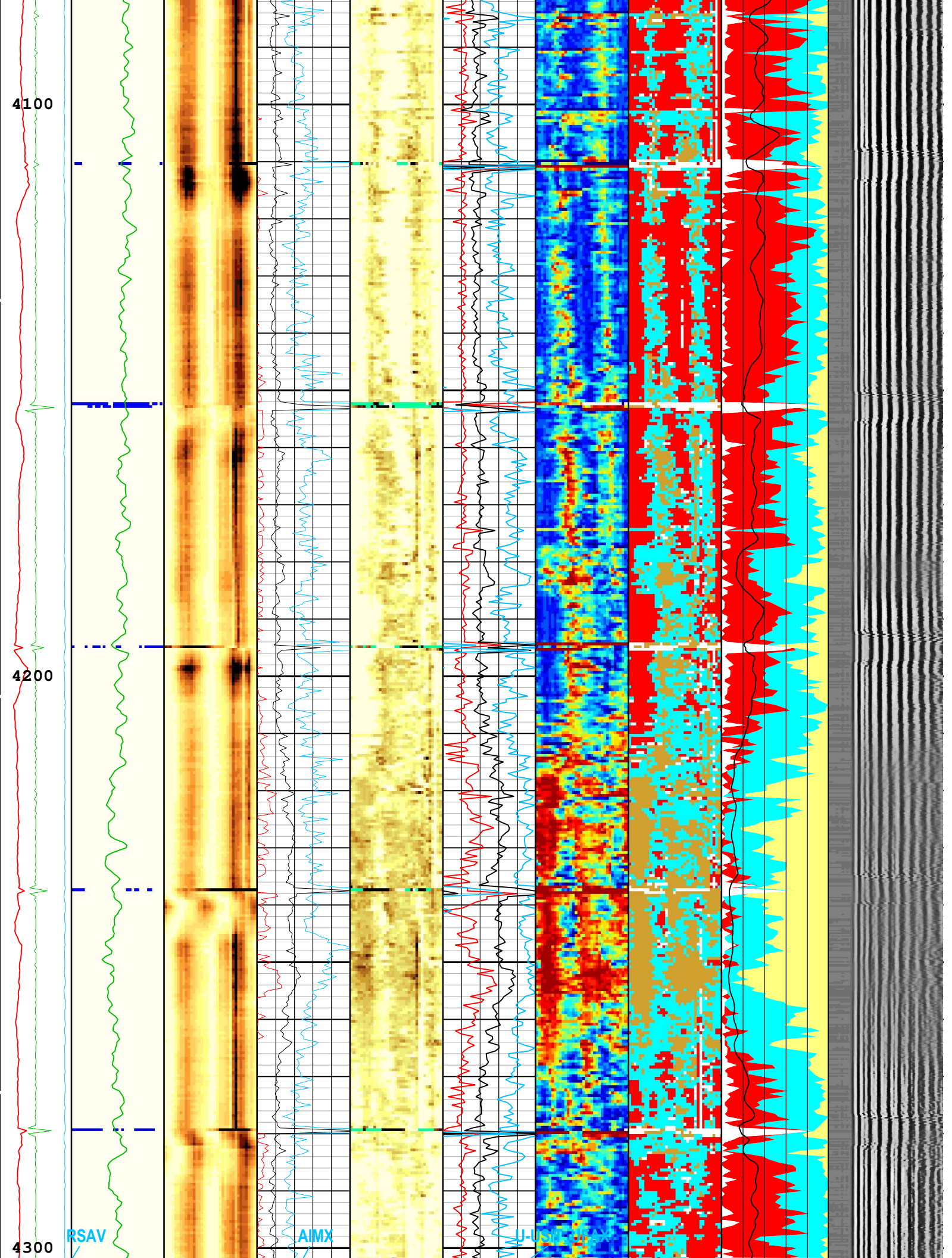
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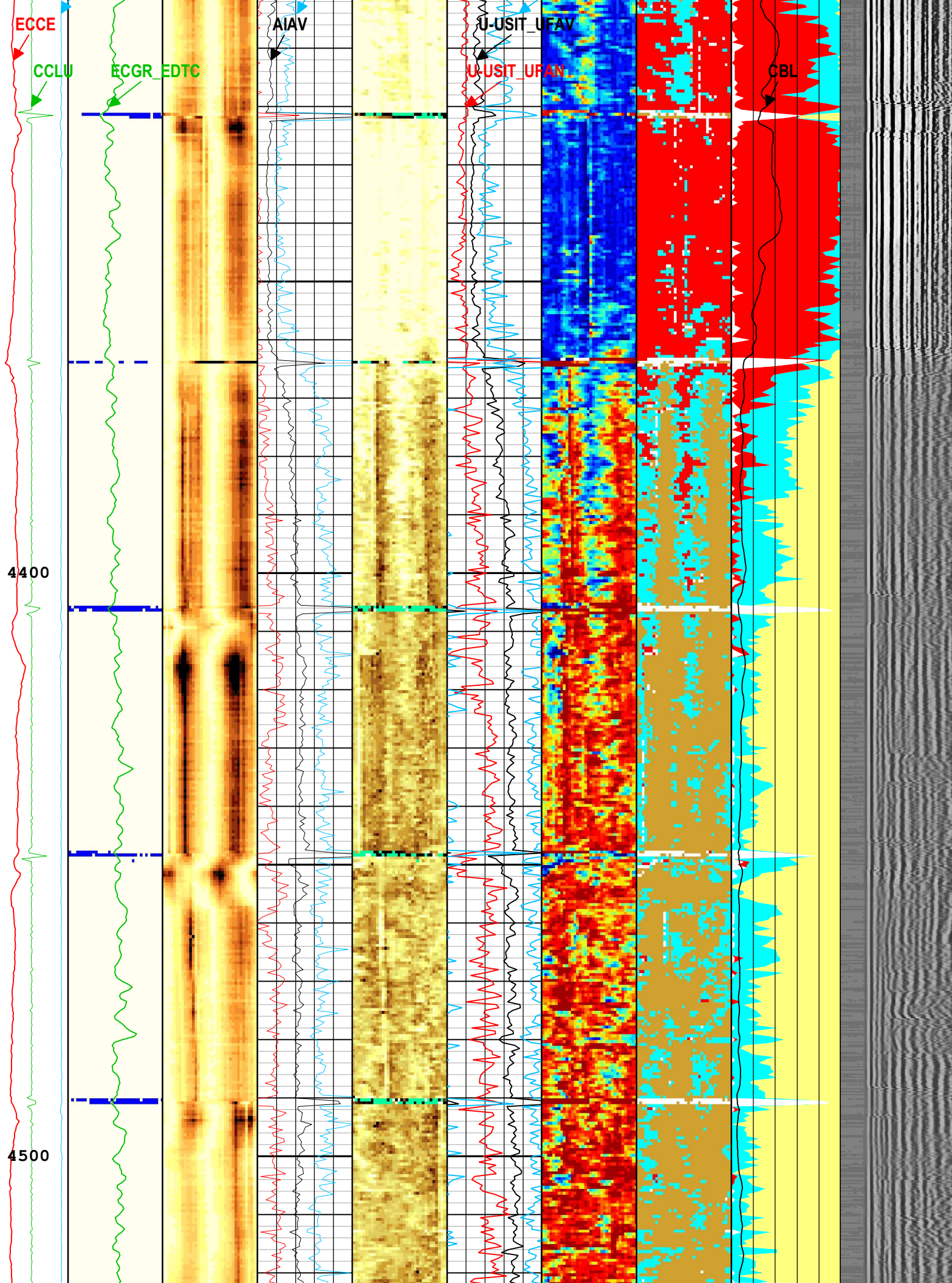
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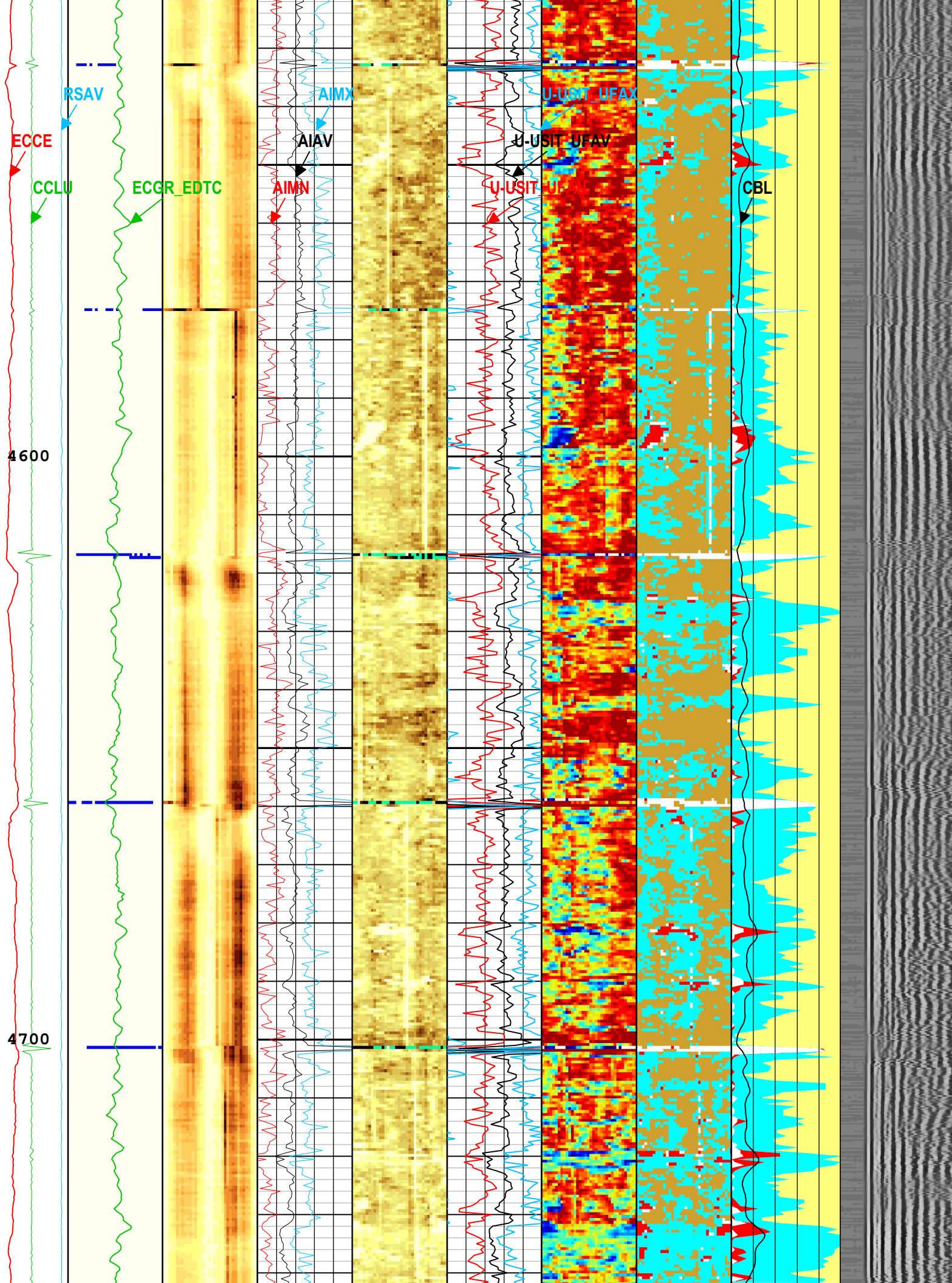
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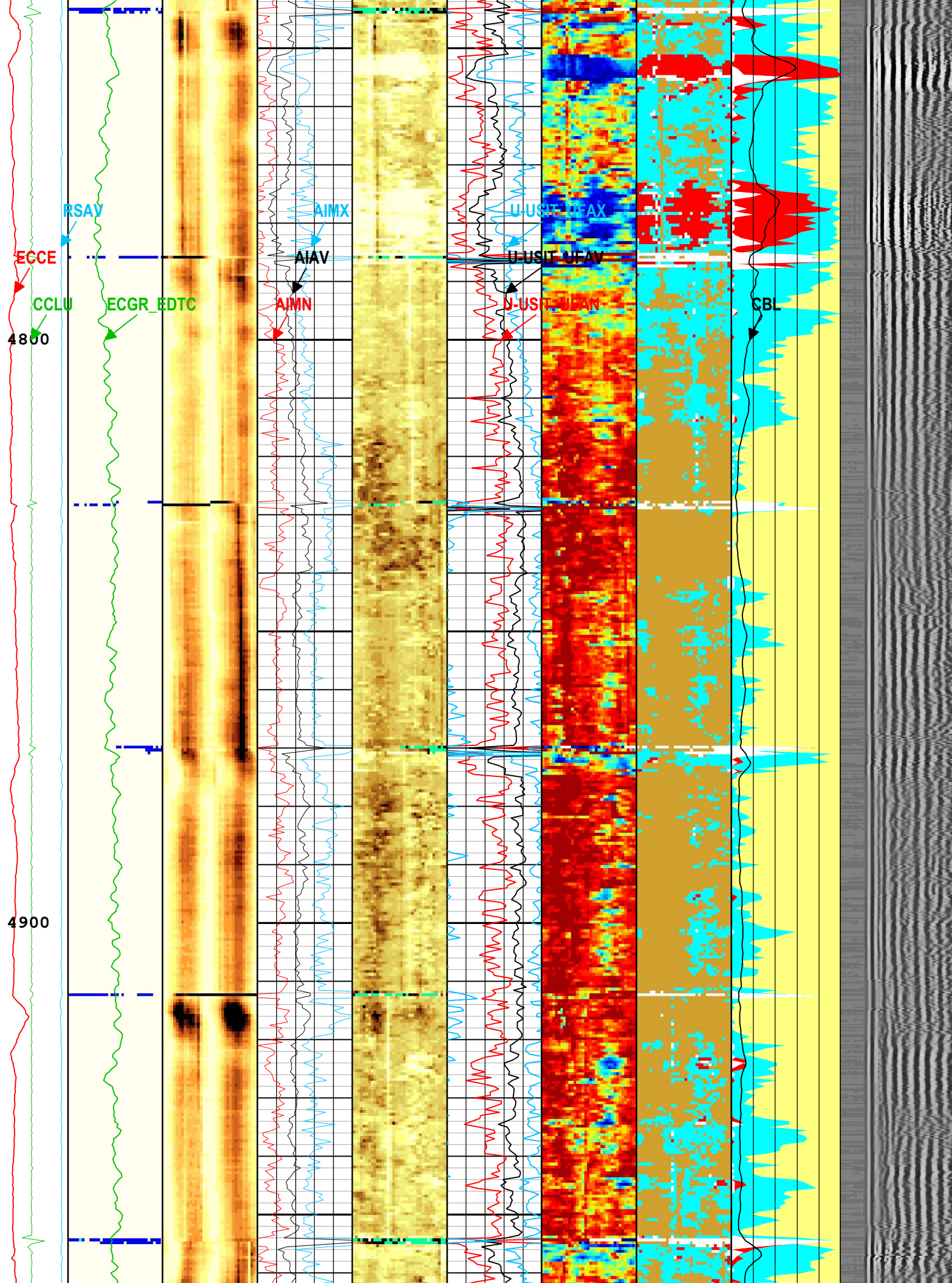
RSAV

AIMX









5000

5100

ECCE

CCLU

ECGR_EDTC

RSAV

AIAV

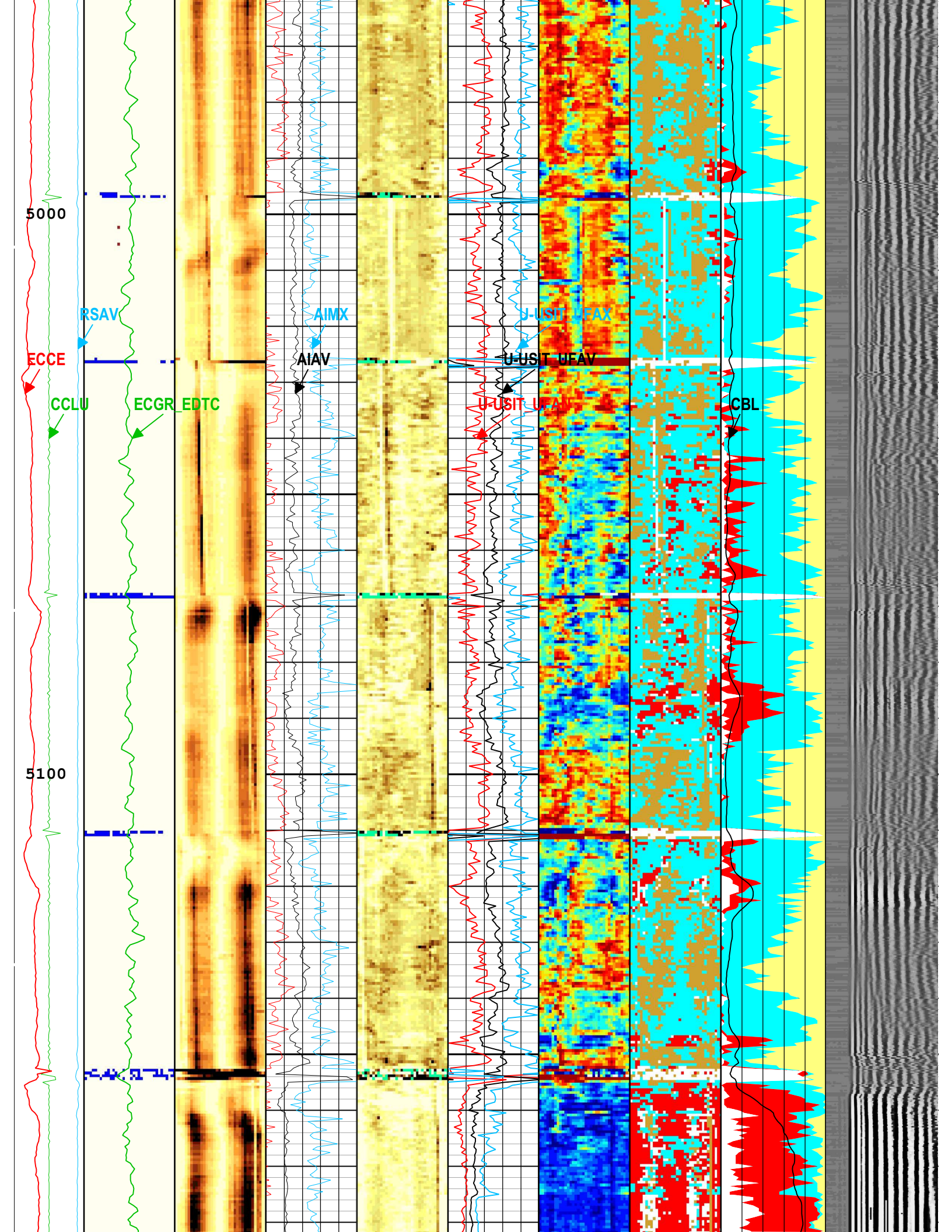
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U-USIT_UFAV

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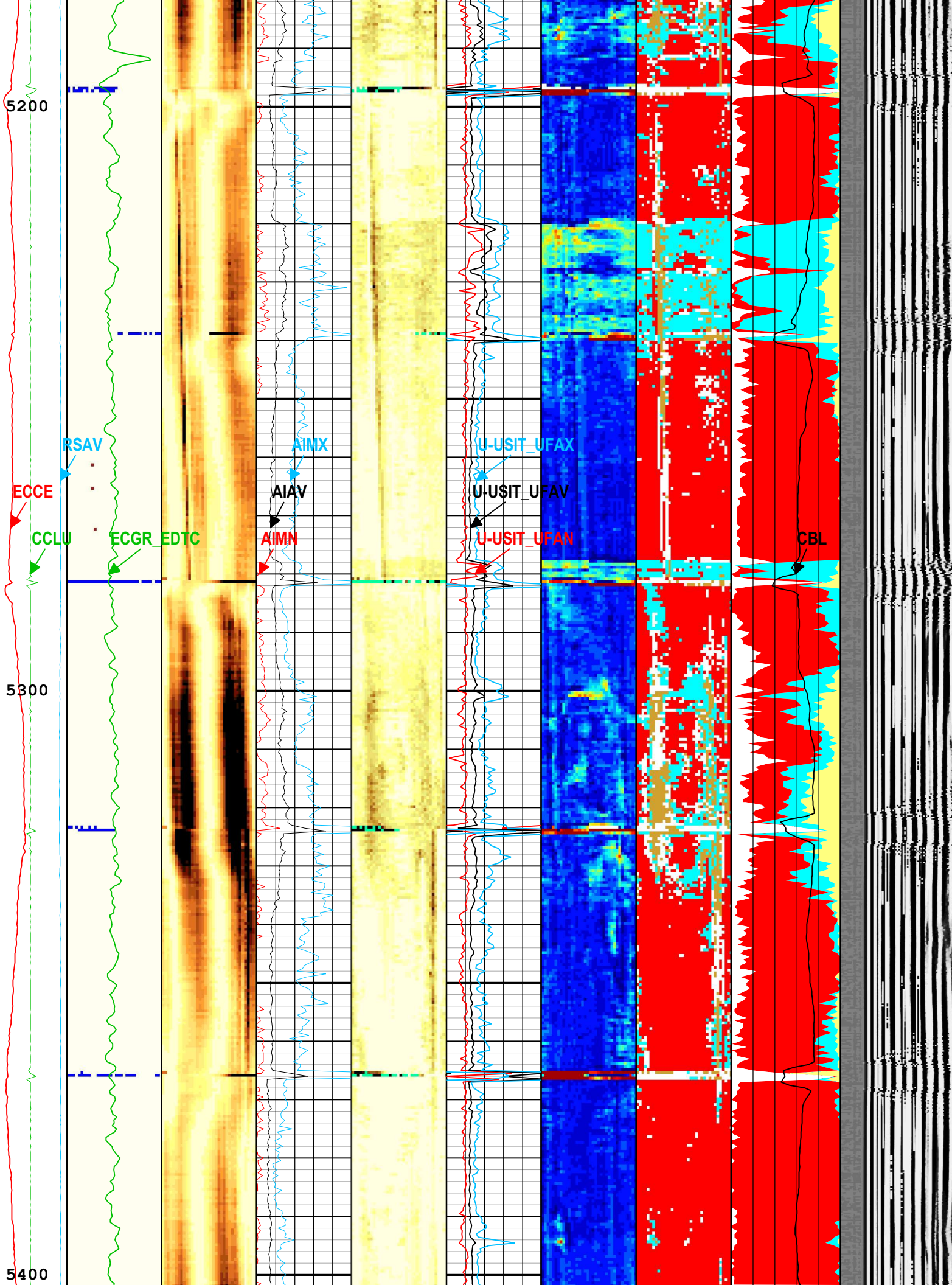
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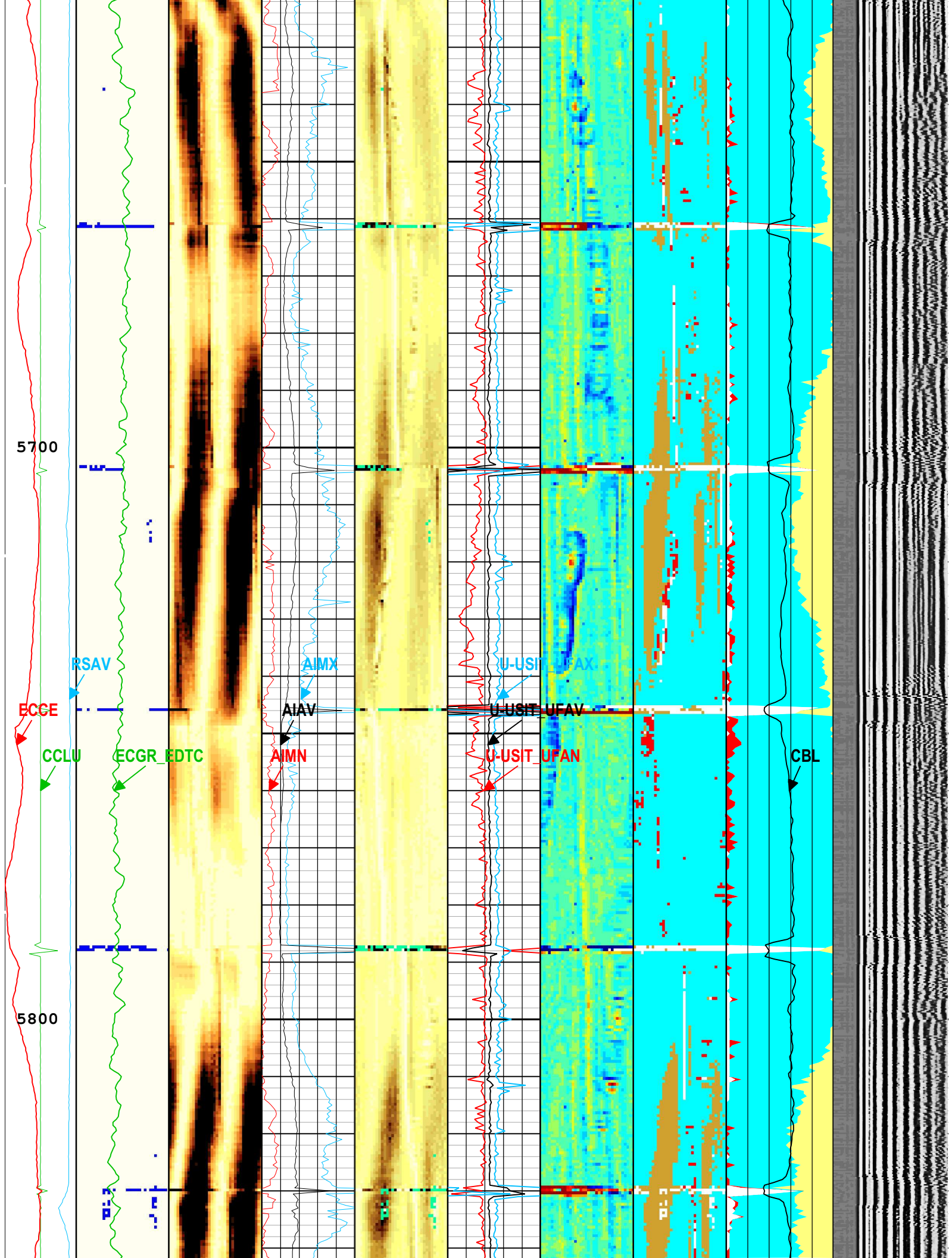


5200

5300

5400





5900

6000

ECCE

CCLU

ECGR_EDTC

RSAV

AIMX

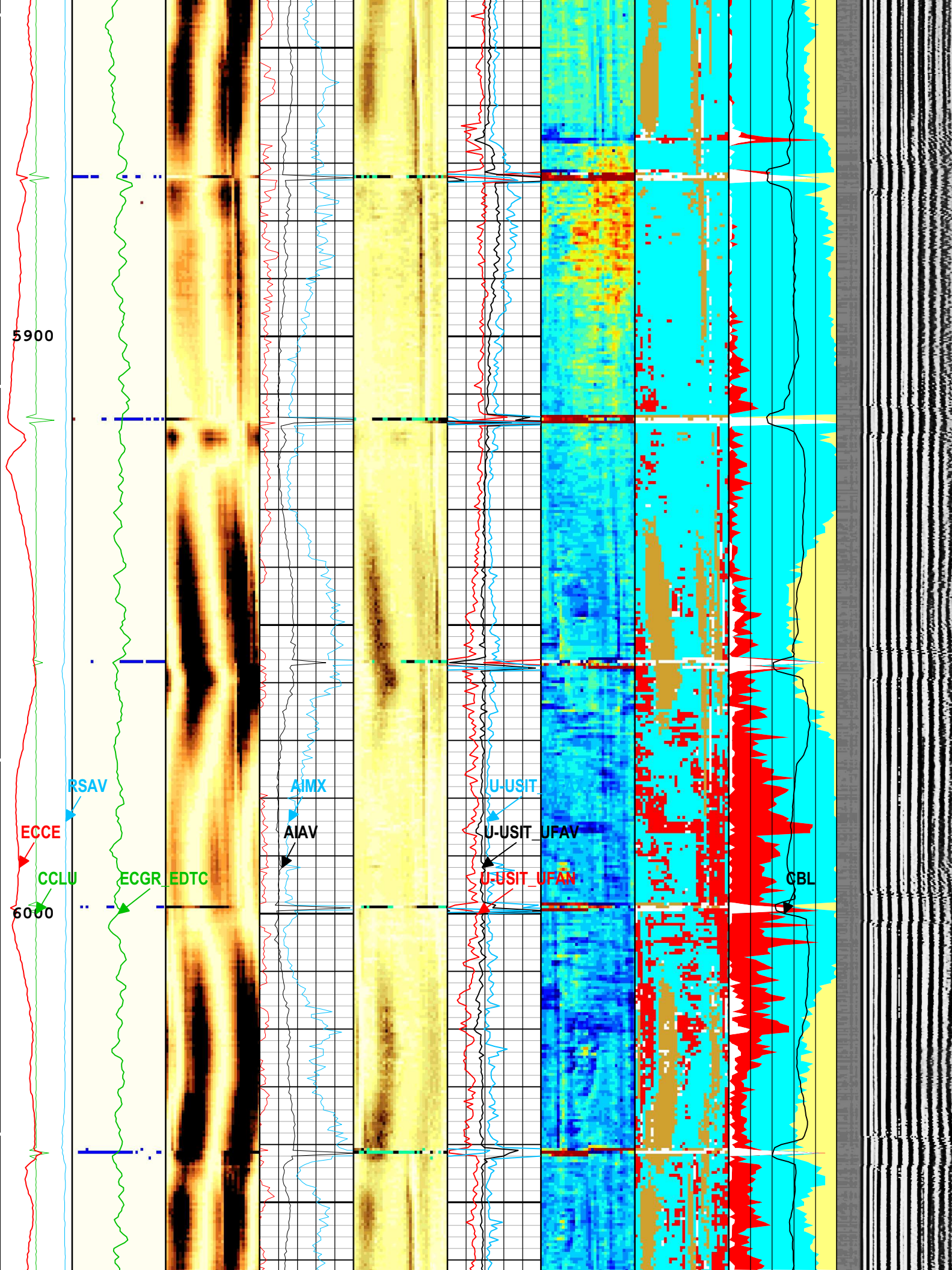
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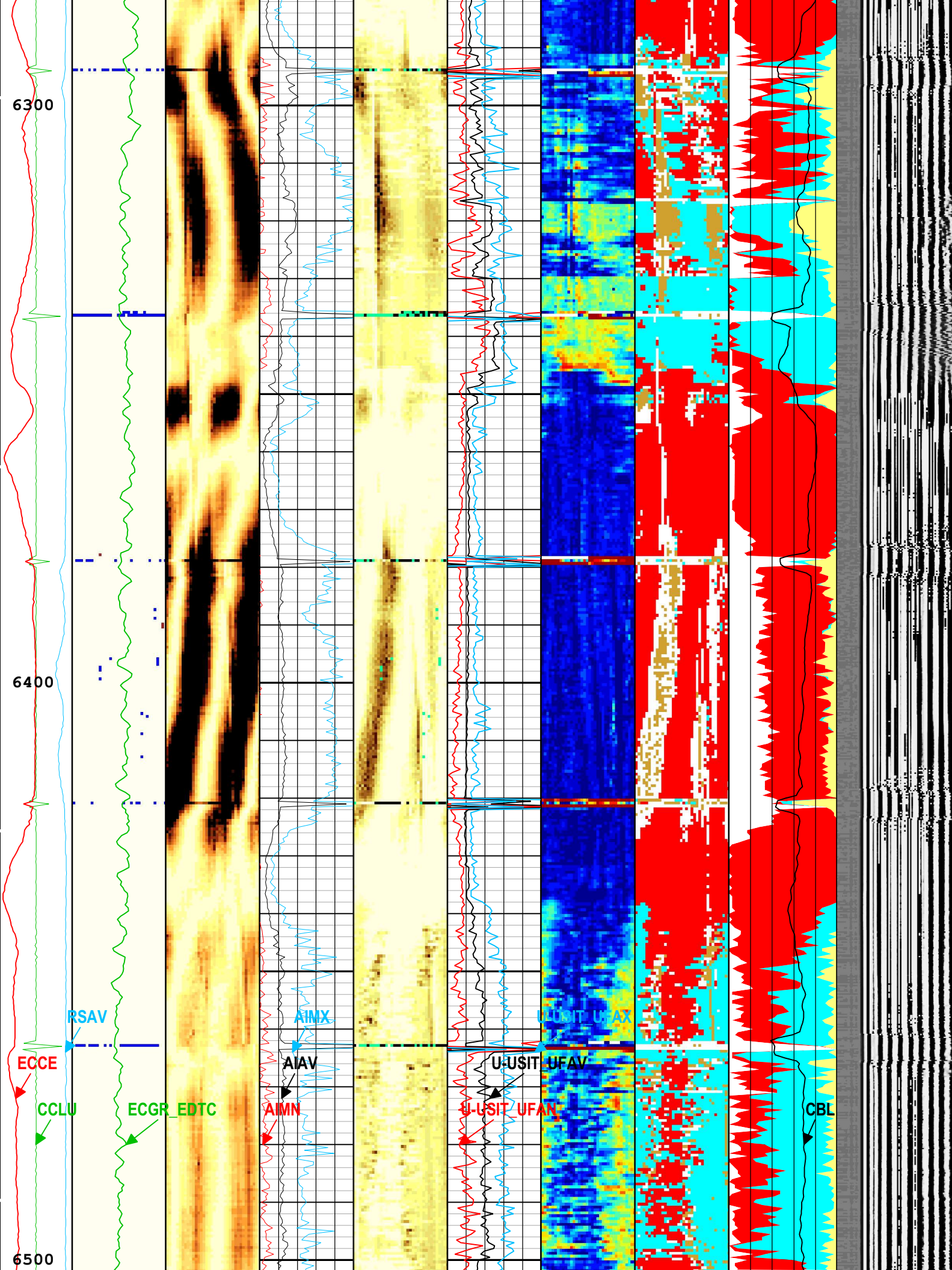
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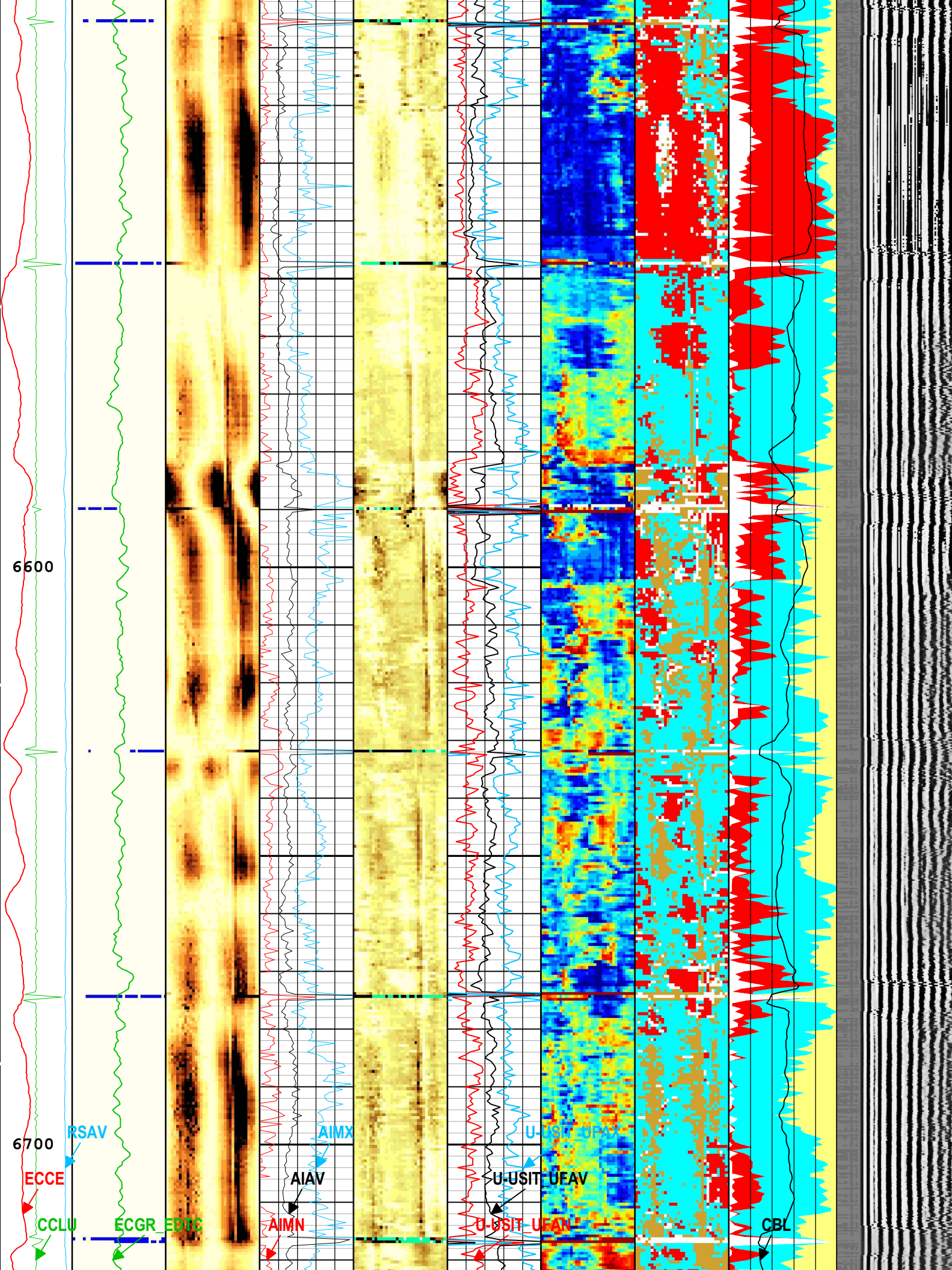
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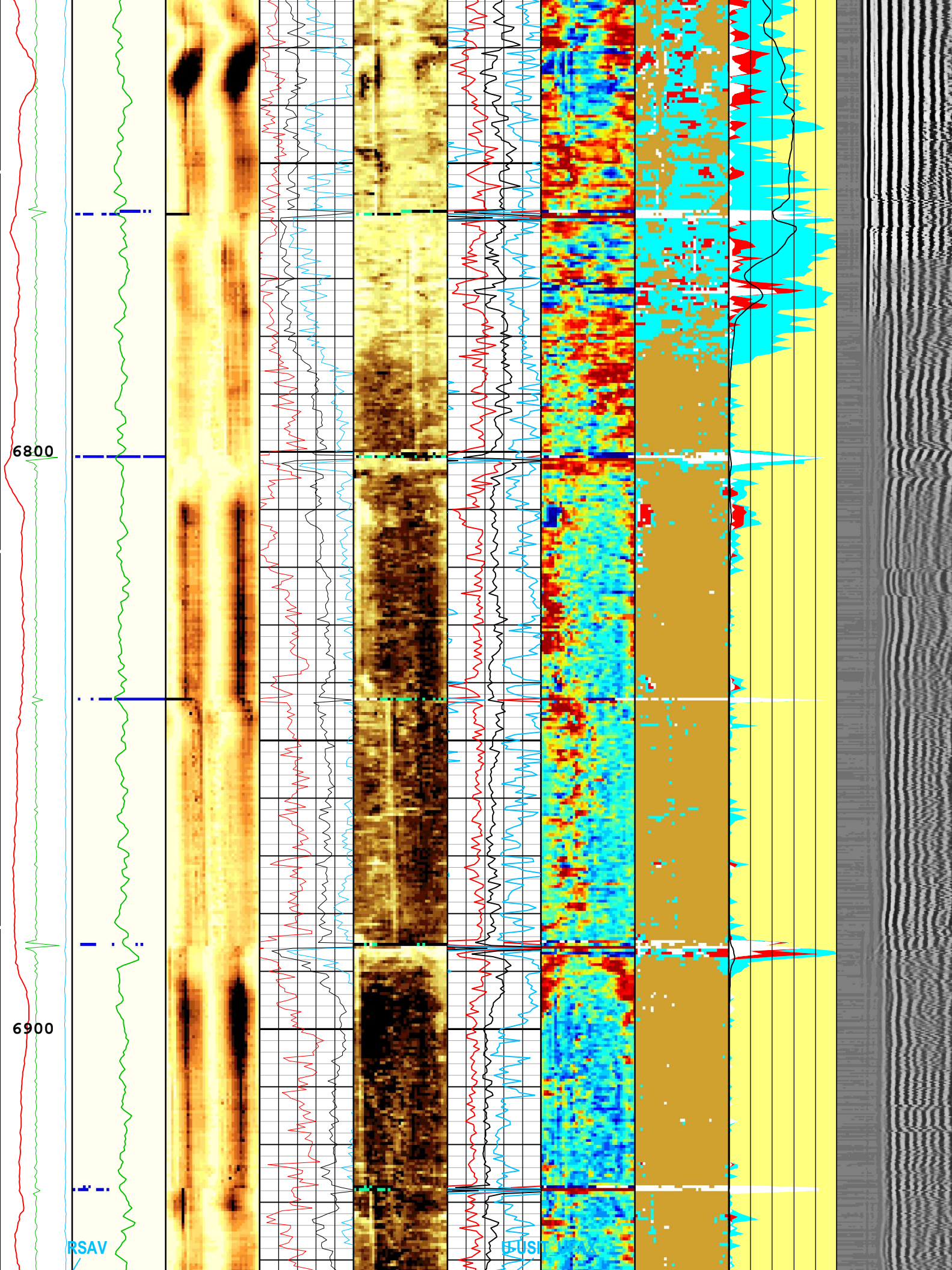
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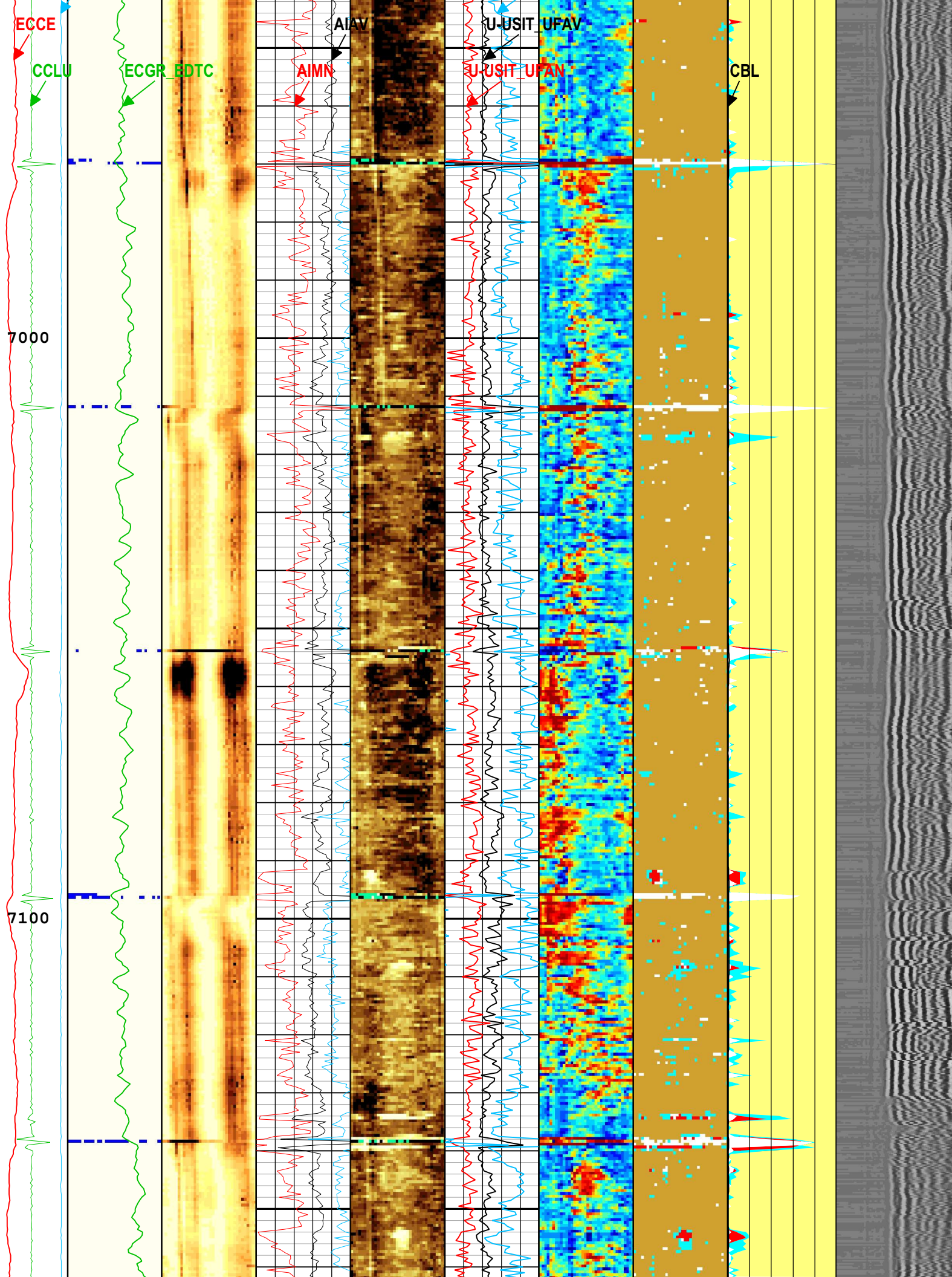
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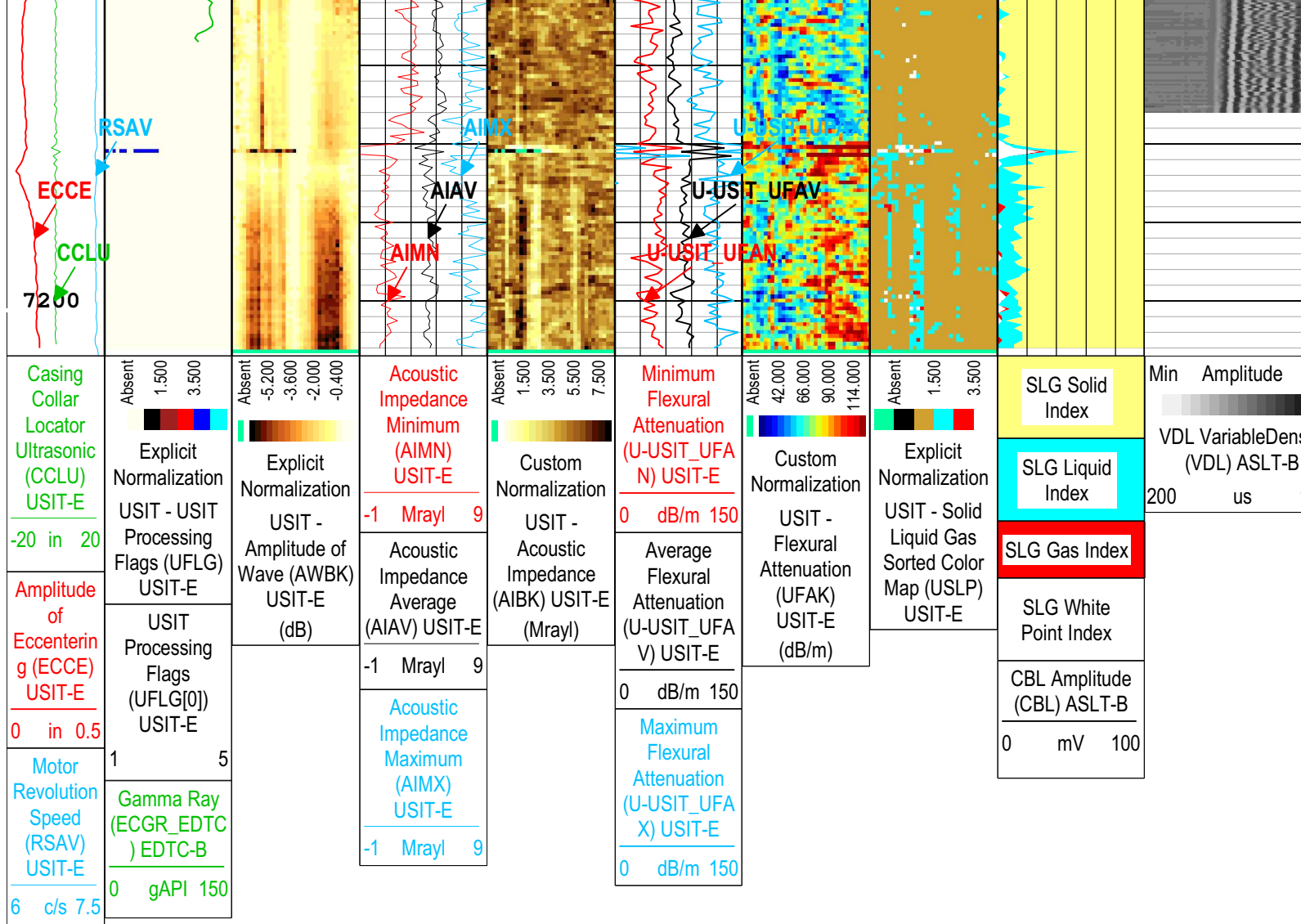












USIT Processing Flags (UFLG[0]) USIT-E

- 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-VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 24-Jan-2022 17:51:50

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	Depth Zoned	in
CBLO	Casing Bottom (Logger)	WLSESSION	8131	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	ASLT-B	80	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	
DFD	Drilling Fluid Density	Borehole	8.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	203	us/ft

DWMD	Borehole Fluid Slowness	Borehole	203	us/ft
FCF	CBL Fluid Compensation Factor	ASLT-B	0.98	
FD	Fluid Density	USIT-E	10	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)	
GOBO_CURR	Good Bond in Arbitrary Cement	ASLT-B	1.35	mV
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	Off	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	ASLT-B	55.52	dB/m
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.37	us
MSA	Minimum Sonic Amplitude	ASLT-B	0.49	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	ASLT-B	0.49	mV
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.03	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Centered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	73	dB/m
UFSFLT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.52	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	758
BS	7.875	758	7207

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	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	4010	ft/h
MODE	SSLT Firing Mode	ASLT-B	Attenuation	
MOTOR_PROTECT	Motor Protection	USIT-E	Off	
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)
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EMXV	50	24-Jan-2022 08:59:41	24-Jan-2022 09:01:12	7207.65	7123.48
EMXV	65	24-Jan-2022 09:01:12	24-Jan-2022 09:01:21	7123.48	7114.57
EMXV	70	24-Jan-2022 09:01:21	24-Jan-2022 10:52:57	7114.57	32.4

All depth are at tool zero.

ONE

SLG-CBL Repeat 5" = 100'

Software Version	
Acquisition System	Version
Maxwell 2021.1	11.1.211946.3100
Application Patch	Wireline_Hotfix-Mandatory-2021.1_11.1.213678 Wireline_NPD-ThruBit-2021.1_11.1.213816

Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Repeat[4]:Up	Up	6866.77 ft	7197.73 ft	24-Jan-2022 8:51:28 AM	24-Jan-2022 8:56:48 AM	ON	7.50 ft	Yes

All depths are referenced to toolstring zero

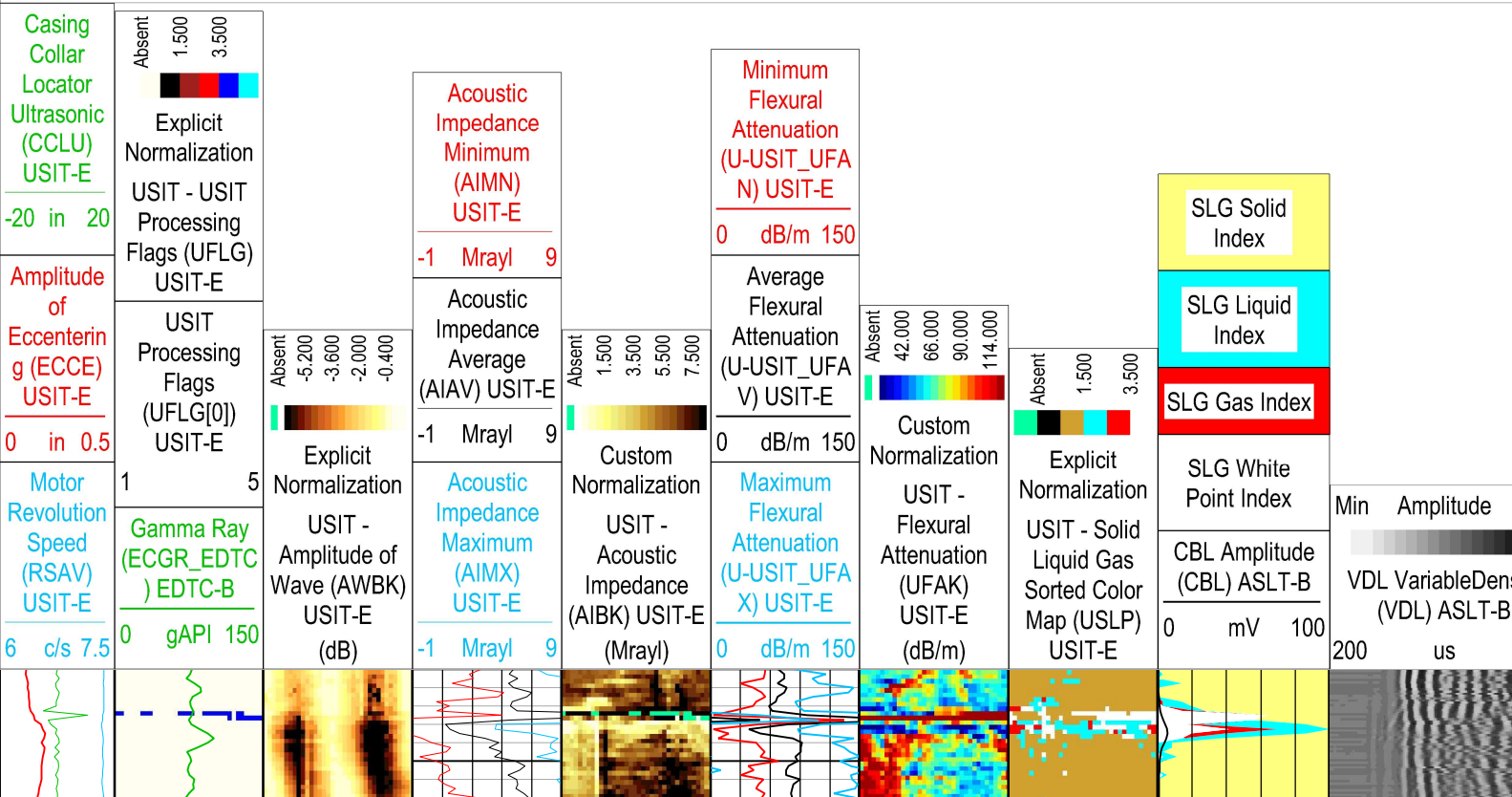
Log	Company: Occidental Petroleum Inc	Well: Ballantine #4-30A
	ONE: Repeat[4]:Up:S020	

Description: USI IBC SLG Format: Log (IBC SLG CBL-VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 24-Jan-2022 17:52:45

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



6900

7000

7100

RSAV

ECCE

CCLU

ECGR_EDTC

AIAN

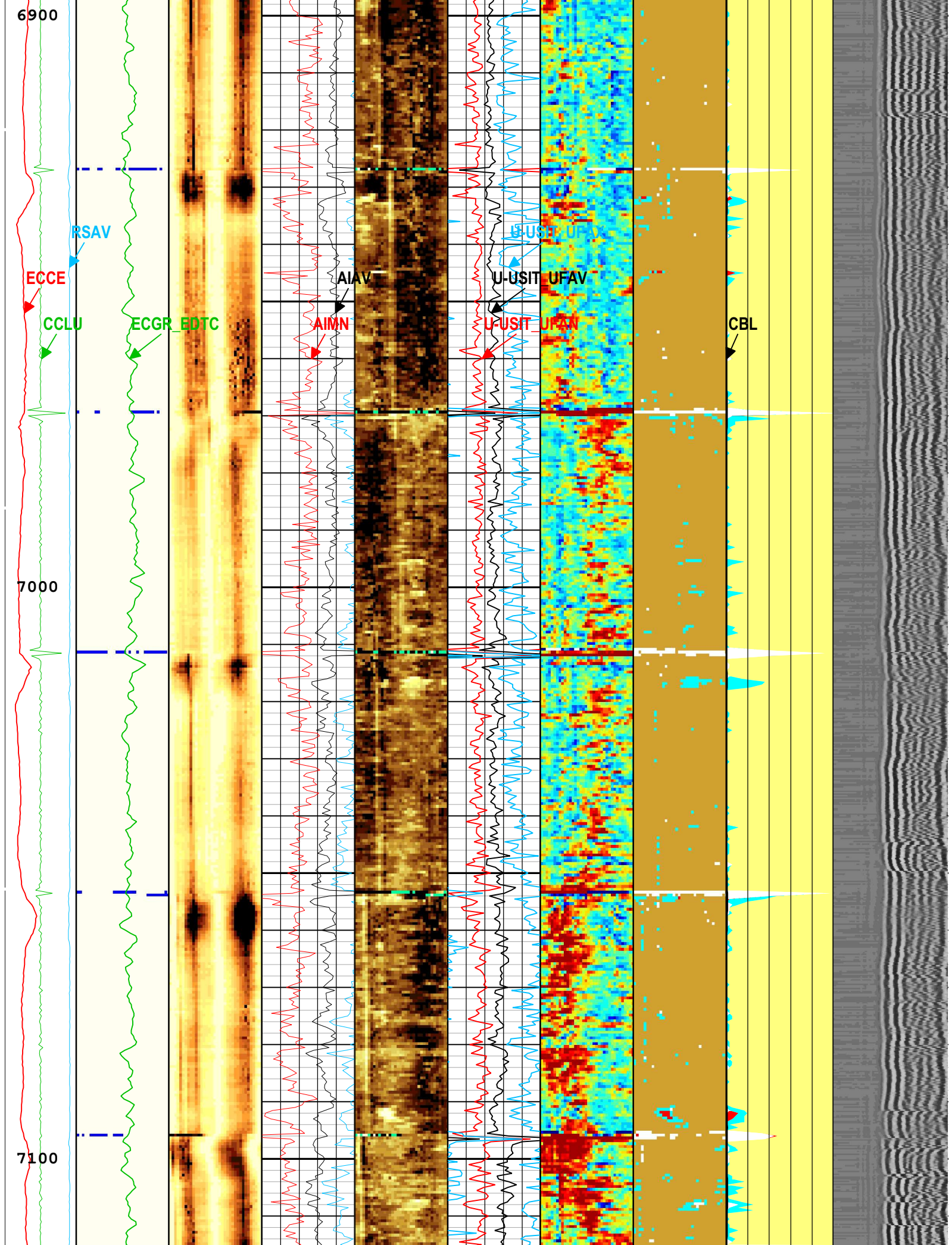
AIMN

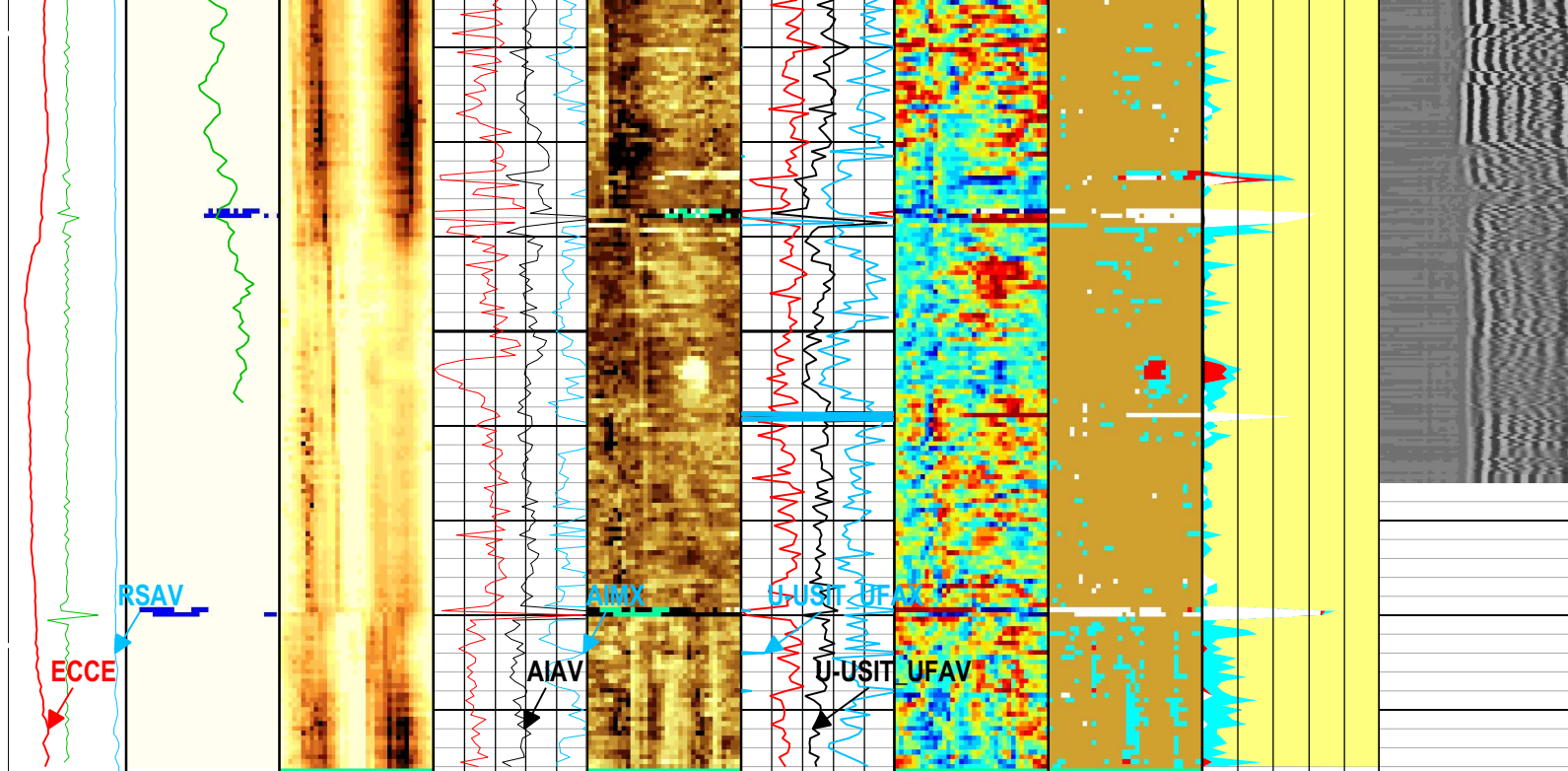
U-USIT

U-USIT

U-FAV

CBL





Casing Collar Locator (CCLU) USIT-E Absent 1.500 3.500 Explicit Normalization USIT - USIT Processing Flags (UFLG) USIT-E Amplitude of Eccentricity (ECCE) USIT-E 0 in 0.5 Motor Revolution Speed (RSAV) USIT-E 6 c/s 7.5 Gamma Ray (ECGR_EDTC) EDTC-B 0 gAPI 150	Acoustic Impedance Minimum (AIMN) USIT-E Absent 1.500 3.500 5.500 7.500 Custom Normalization USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl) -1 Mrayl 9 Acoustic Impedance Maximum (AIMX) USIT-E -1 Mrayl 9	Minimum Flexural Attenuation (U-USIT_UFA) USIT-E Absent 42.000 66.000 90.000 114.000 Custom Normalization USIT - Flexural Attenuation (UFAK) USIT-E (dB/m) 0 dB/m 150 Average Flexural Attenuation (U-USIT_UFAV) USIT-E 0 dB/m 150 Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E 0 dB/m 150	SLG Solid Index SLG Liquid Index SLG Gas Index SLG White Point Index CBL Amplitude (CBL) ASLT-B 0 mV 100	Min Amplitude VDL VariableDensity (VDL) ASLT-B 200 us
---	---	--	--	---

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-VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 24-Jan-2022 17:52:45

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	8131	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	ASLT-B	80	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	
DFD	Drilling Fluid Density	Borehole	8.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	203	us/ft
FCF	CBL Fluid Compensation Factor	ASLT-B	0.98	
FD	Fluid Density	USIT-E	10	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)	
GOBO_CURR	Good Bond in Arbitrary Cement	ASLT-B	1.35	mV
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	Off	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	ASLT-B	55.52	dB/m
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.37	us
MSA	Minimum Sonic Amplitude	ASLT-B	0.49	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	ASLT-B	0.49	mV
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.03	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Centered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	73	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.52	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

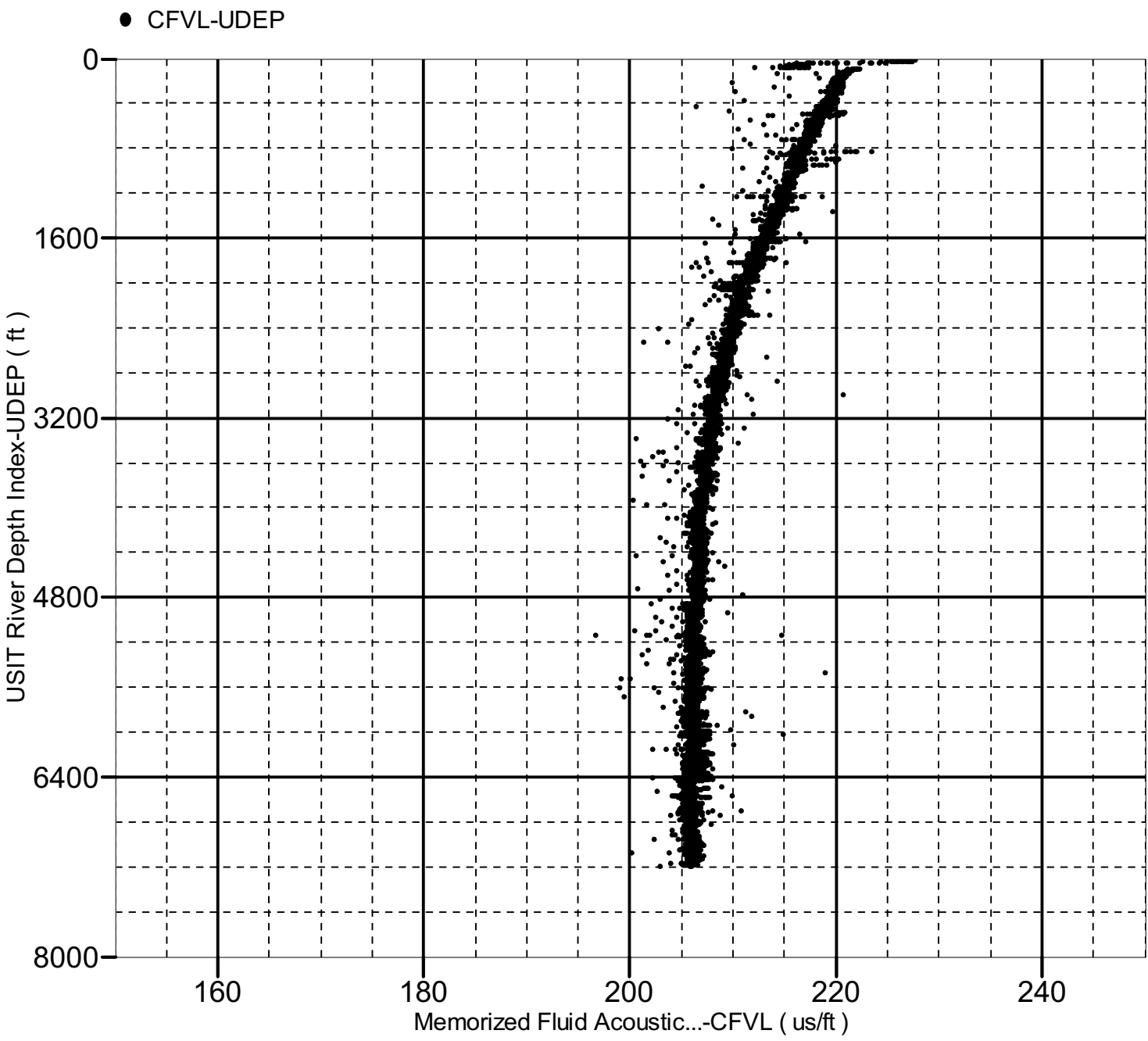
ONE: Parameters

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	50	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	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	4010	ft/h
MODE	SSLT Firing Mode	ASLT-B	Attenuation	
MOTOR_PROTECT	Motor Protection	USIT-E	Off	
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	

Fluid Acoustic Slowness vs Depth

2D Cross Plot

Index Range: From 7207.00 to 32.00 ft

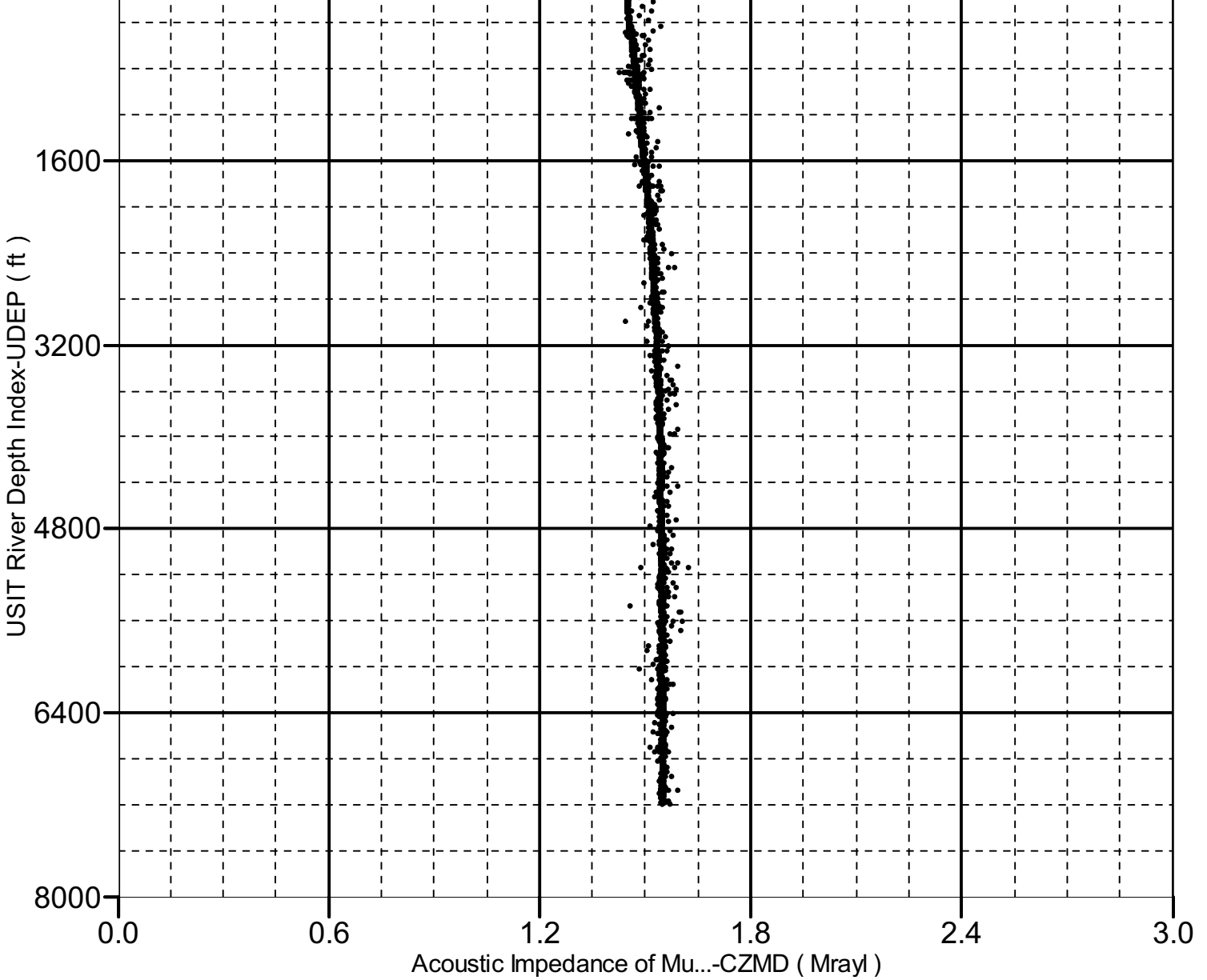


Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 7207.00 to 32.00 ft





Calibration Report

ASLT-B (Array Sonic Logging Tool - B) Calibration - Run ONE

Primary Equipment :

Array Sonic Logging Tool - BB

ASLT-BB

8073

CBL Amplitude Free Pipe Adjustment - Free Pipe Measurements

Before (Manual Entry): 11:10:49 24-Jan-2022

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Amplitude (CBLF) - 0	mV	Before	----	----	----	----	<input type="text"/>
CBL Reference Amplitude (CBRA) - 0	mV	Before	----	----	----	----	<input type="text"/>
Measurement Depth (DEPTH) - 0	ft	Before	----	----	----	----	<input type="text"/>

CBL Amplitude Free Pipe Adjustment - CBL Amplitude Coefficients

Before (Manual Entry): 11:10:49 24-Jan-2022

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Adjustment Factor (CBL_ADJUST_FACTOR)		Before	1.000	0.300	0.510	3.000	<input type="text"/>
Depth of Before Calibration (BDEP)	ft	Before	----	----	501.99	----	<input type="text"/>

EDTC-B (Enhanced Digital Telemetry Cartridge - Version B) Calibration - Run ONE

Primary Equipment :

EDTC-B

EDTC-B

8437

Calibration Parameter :

Plus Reference

EDTC-B Memory Data - EDTC-B Memory Data

Master (EEPROM): 08:50:05 24-Jan-2022

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Initial PMT HV	V	Master	----	----	1515.000	----		
Accelerometer Serial Number		Master	----	----	580	----		
Accelerometer Coefficients - 0		Master	----	----	3.032E+000	----		
Accelerometer Coefficients - 1		Master	----	----	3.387E-004	----		
Accelerometer Coefficients - 2		Master	----	----	-4.036E-007	----		
Accelerometer Coefficients - 3		Master	----	----	-9.753E-008	----		
Accelerometer Coefficients - 4		Master	----	----	2.363E-009	----		
Accelerometer Coefficients - 5		Master	----	----	-1.798E-011	----		
Accelerometer Coefficients - 6		Master	----	----	4.607E-014	----		
Accelerometer Coefficients - 7		Master	----	----	-8.596E-003	----		
Accelerometer Coefficients - 8		Master	----	----	6.136E-005	----		
Accelerometer Coefficients - 9		Master	----	----	1.184E-008	----		
Accelerometer Coefficients - 10		Master	----	----	2.611E-010	----		
Accelerometer Coefficients - 11		Master	----	----	-2.798E-012	----		
Gamma-Ray Detector Serial Number		Master	----	----	7670	----		

Company: Occidental Petroleum Inc

Schlumberger

Well: Ballantine #4-30A

Field: Wattenberg

County: Weld

State: Colorado

Isolation Scanner

Cement Bond Log

Gamma Ray - CCL