

Company: Occidental Petroleum INC

Well: Frank 6-8

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner  
Casing Integrity  
Gamma Ray - CCL

County: Weld  
Field: Wattenberg  
Location: SENW Sec 8, T5N, R67W  
Well: Frank 6-8  
Company: Occidental Petroleum INC

Location:	SENW Sec 8, T5N, R67W	Elev.:	K.B.	4924.00 ft
	SHL: 2624' FNL X 1599' FWL		G.L.	4912.00 ft
			D.F.	
Permanent Datum:		Ground Level		Elev.: 4912.00 f
Log Measured From:		Kelly Bushing		12.00 ft above Perm.Datum
Drilling Measured From:		Kelly Bushing		
API Serial No.	05-123-26582-00	Section:	8	Township: 5N Range: 67W

Logging Date	15-Mar-2022
Run Number	One
Depth Driller	7954.00 ft
Schlumberger Depth	7954.00 ft
Bottom Log Interval	6600.00 ft
Top Log Interval	50.00 ft
Casing Fluid Type	Water
Salinity	
Density	8.5 lbm/gal
Fluid Level	8.00 ft
BIT/CASING/TUBING STRING	
Bit Size	7.88 in
From	805.00 ft
To	7954.00 ft
Casing/Tubing Size	4.5 in
Weight	11.6 lbm/ft
Grade	N80
From	0.00 ft
To	7940.00 ft
Max Recorded Temperatures	185 degF
Logger on Bottom	15-Mar-2022 09:00:00
Unit Number	9108
Recorded By	Ruobing Wu
Witnessed By	Victor Ildefonso

## 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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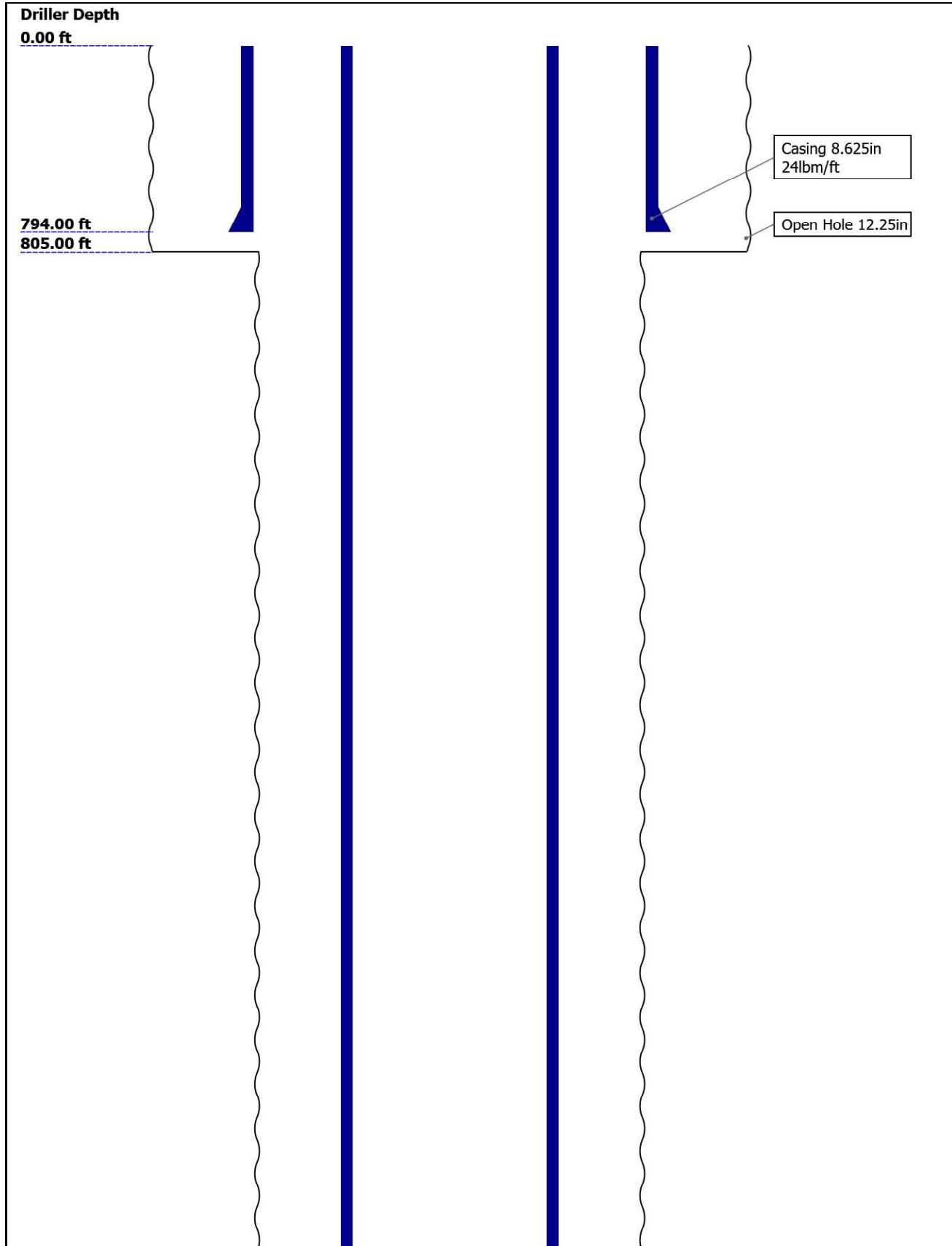
9.5 Parameter Listing

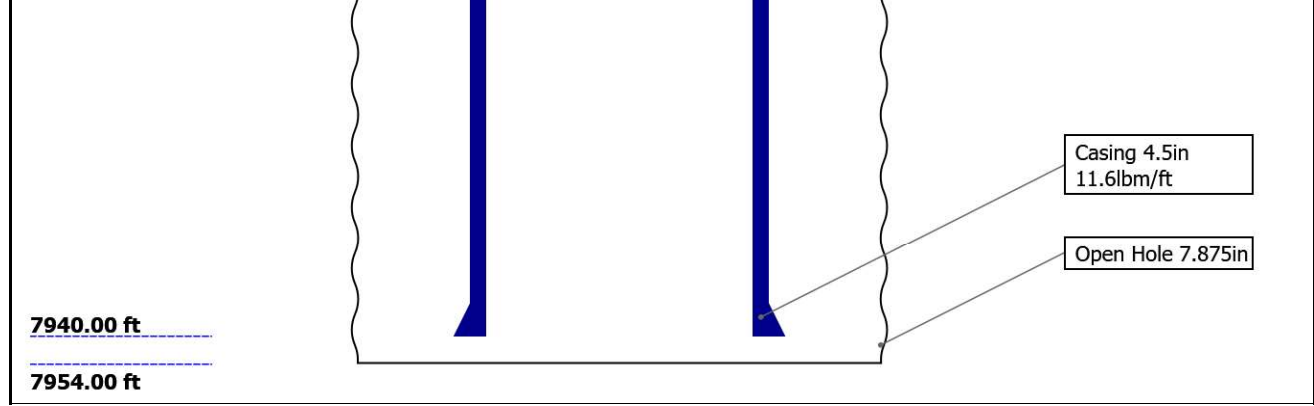
10. XYZ ( IBC Fluid Acoustic Slowness vs Depth 6.0 in )

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

12. Tail

## Well Sketch





## Borehole Size/Casing/Tubing Record

Bit					
Bit Size ( in )	12.25	7.875			
Top Driller ( ft )	0	805			
Top Logger ( ft )	0	805			
Bottom Driller ( ft )	805	7954			
Bottom Logger ( ft )	805	7954			
Casing					
Size ( in )	8.625	4.5			
Weight ( lbm/ft )	24	11.6			
Inner Diameter ( in )	8.097	4			
Grade	K55	N80			
Top Driller ( ft )	0	0			
Top Logger ( ft )	0	0			
Bottom Driller ( ft )	794	7940			
Bottom Logger ( ft )	794	7940			

## Remarks and Equipment Summary

### One: Toolstring

### One: Remarks

Equip name length  
LEH-QT 49.07  
LEH-QT

MP name Offset

EDTC-B: 45.58  
8412  
EDTH-B:  
8983  
EDTG-A  
EDTC-B:  
8412

ASLT-B: 39.08  
8073  
ASLT-BB  
:8073



CTEM 42.08  
ACCZ 0.00  
HV 0.00  
Gamma Ray  
TelStar 39.08

CBL\_UP 32.55

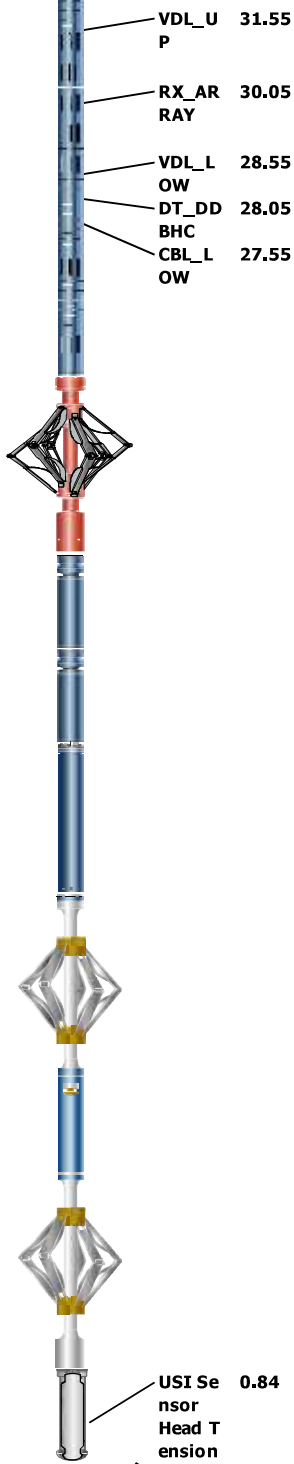
Log recorded in 10Deg, 6in Resolution; ASLT ran in Attenuation Mode

Log recorded without surface induced pressure from TD to 500ft, 500PSI 500ft to surf

Log correlated to CCL log dated 14-Mar-2022 Provided by client

Tool was run as per tool sketch

All logging intervals as per client request



**CME-AF 24.43**

**AH-184 20.64**  
[2]

**AH-184 18.64**  
[1]

**USIT-E:9 16.64**  
00

ECH-MFA  
:1818  
USAC-A:  
900  
USIS-A:2  
735  
USSC-B  
IBCS-A:8  
15  
FAR-SEN  
SOR:4775  
IBC-TX  
NEAR-SE  
NSOR:48  
25  
IBC-TX  
USI-SEN  
SOR:4825  
IBC-TX  
EMITTER  
-SENSOR  
:4776  
IBC-TX

**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	
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		

<b>Logging Cable</b>			
Type	7-39PI-XXS		
Serial Number	Shop		
Length	28000.00 ft		
Conveyance Type	Wireline		
Rig Type	Workover		

<b>One:Depth Control Parameters</b>		<b>Depth Control Remarks</b>
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		
Stretch Correction		
Tool Zero Check At Surface		

## One

<b>Software Version</b>	
<b>Acquisition System</b>	<b>Version</b>
Maxwell 2022.0	12.0.215014.3100
Application Patch	Wireline_Hotfix-Mandatory-2022.0_12.0.216515

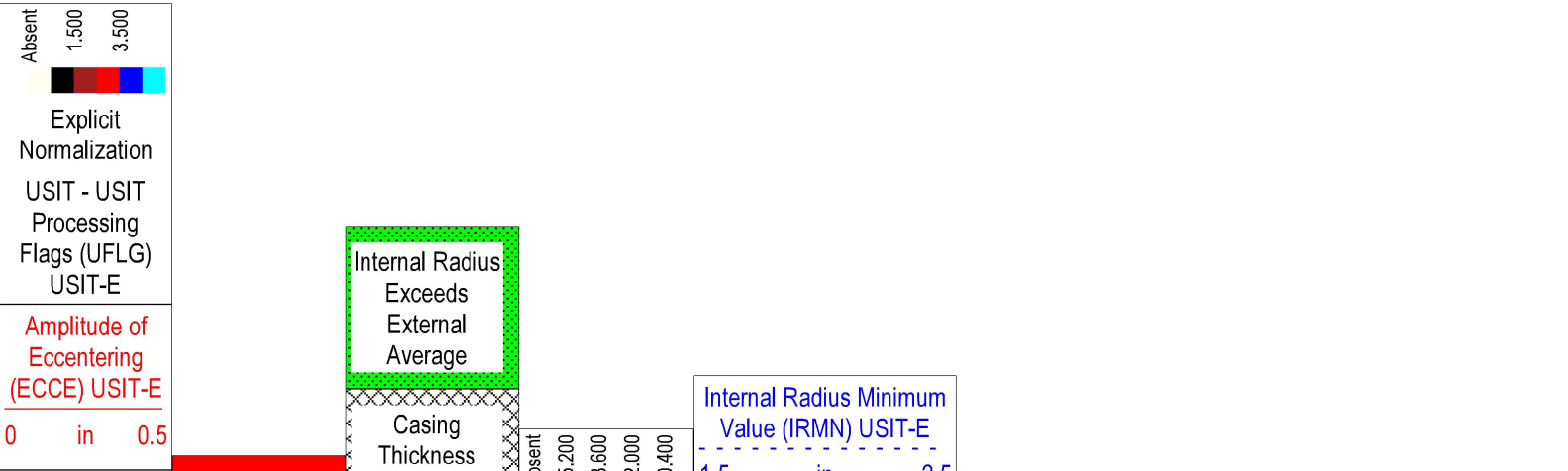
<b>Pass Summary</b>									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[5]:Up	Up	60.71 ft	6637.28 ft	15-Mar-2022 7:38:40 AM	15-Mar-2022 9:15:02 AM	ON	0.88 ft	Yes

All depths are referenced to toolstring zero

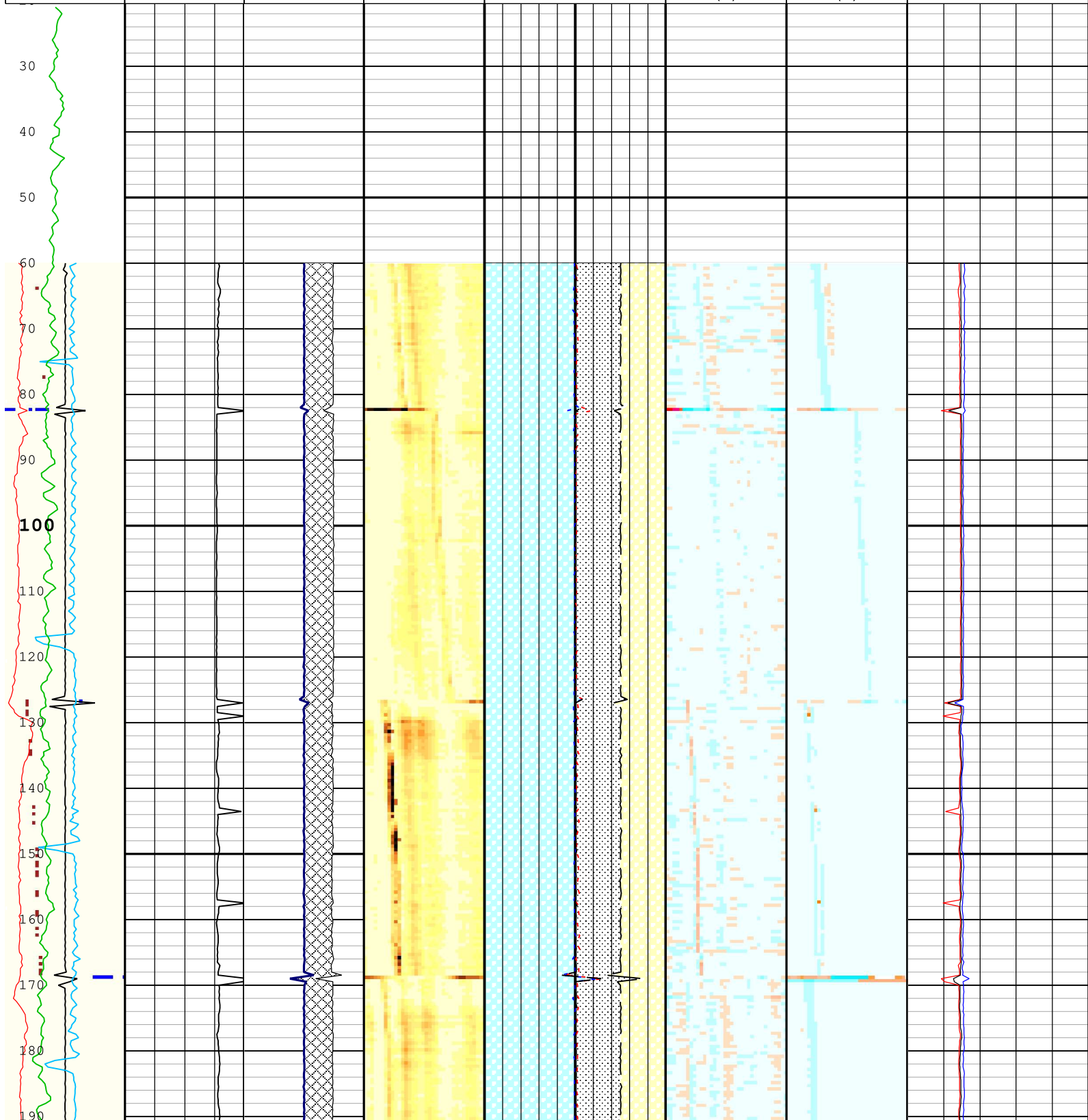
<b>Log</b>	Company: Occidental Petroleum INC    Well: Frank 6-8 One: Log[5]:Up:S005
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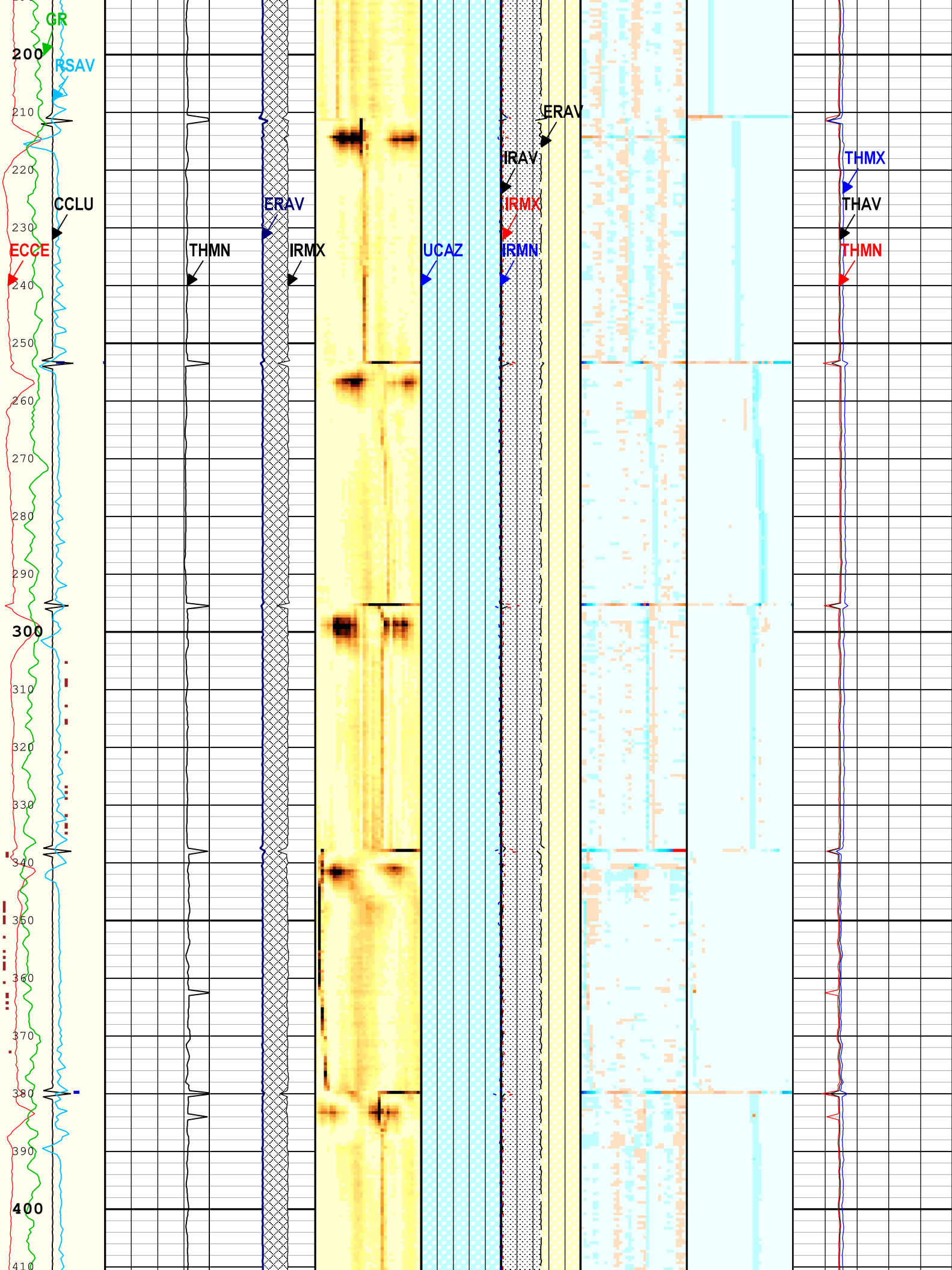
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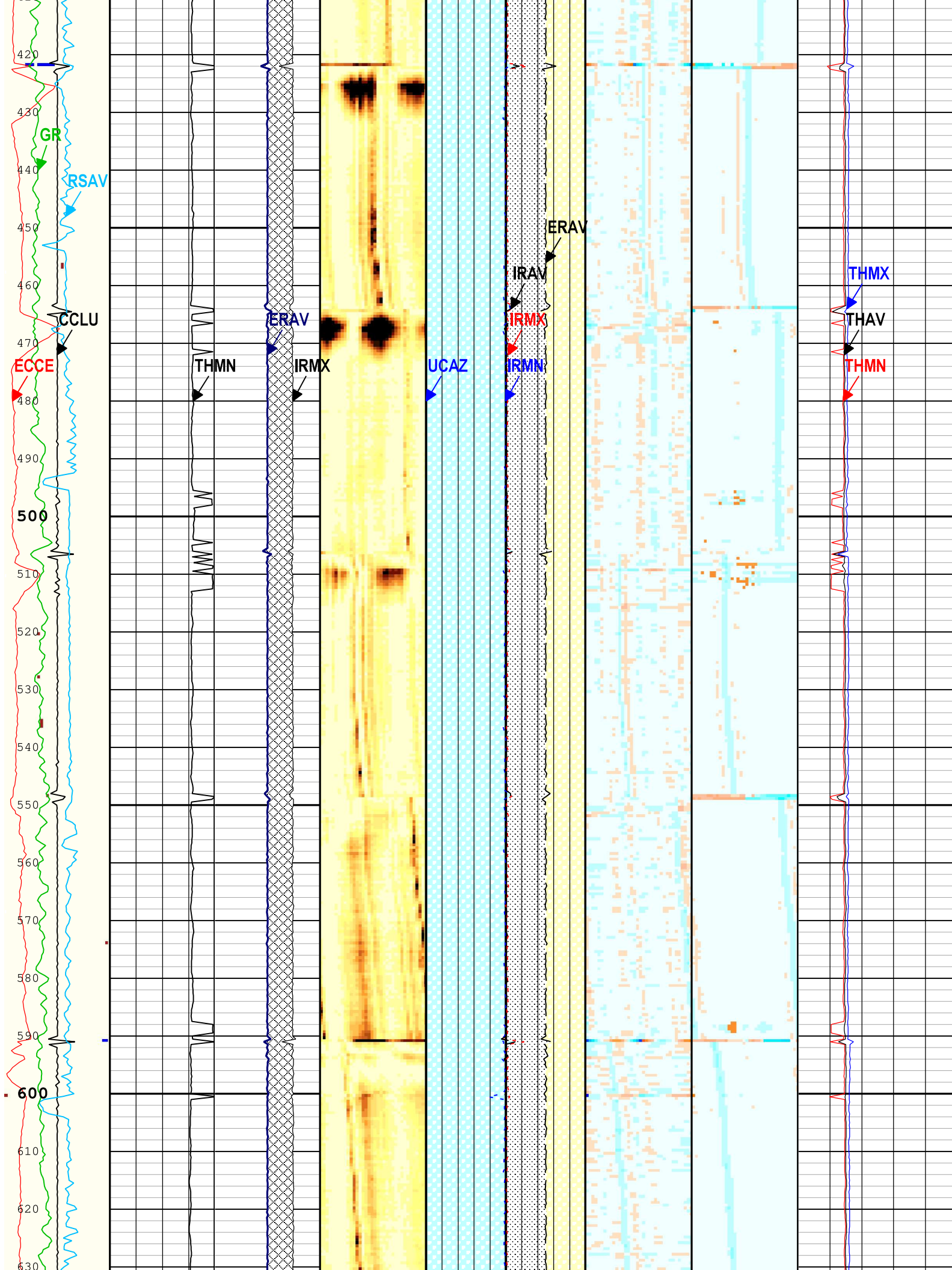
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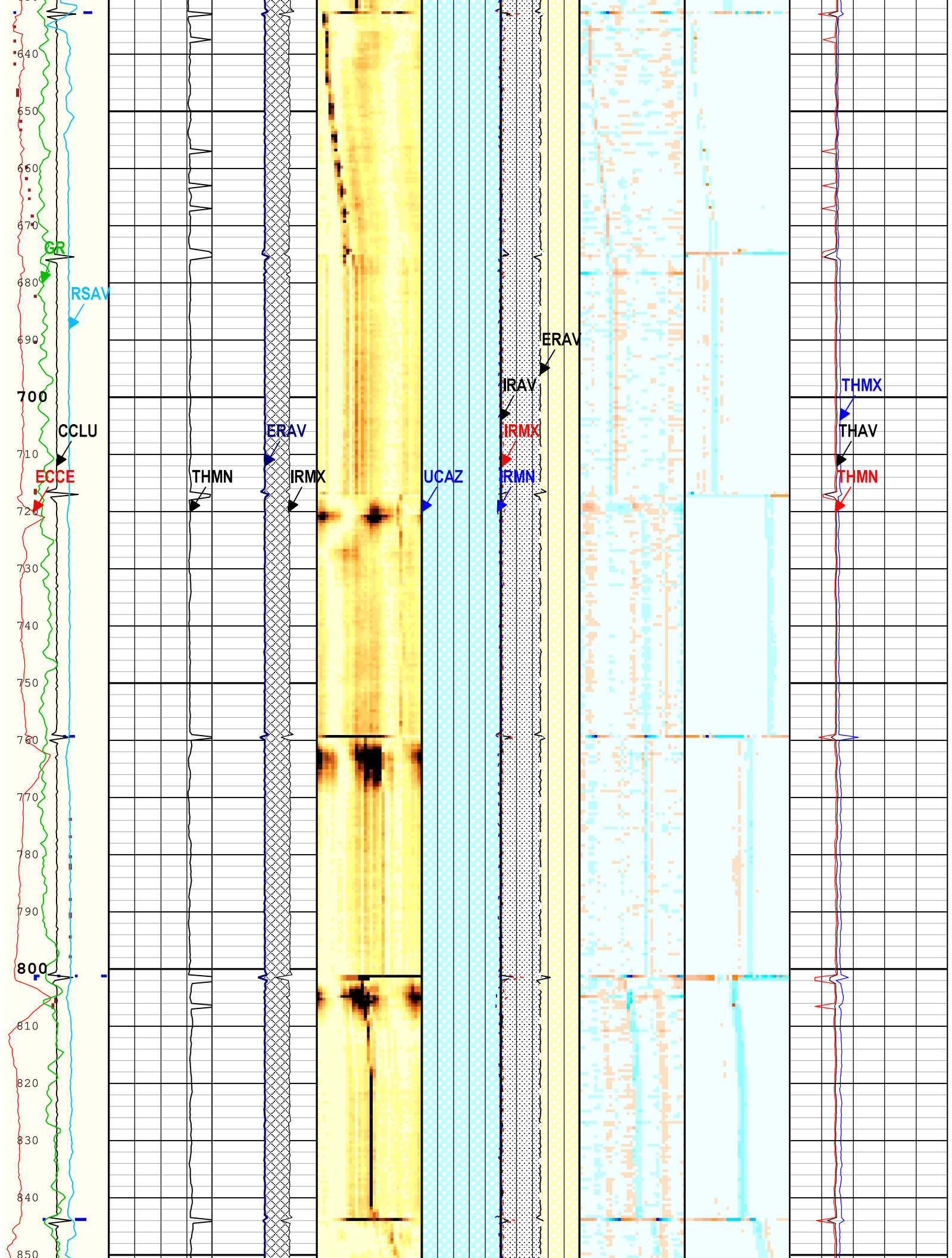


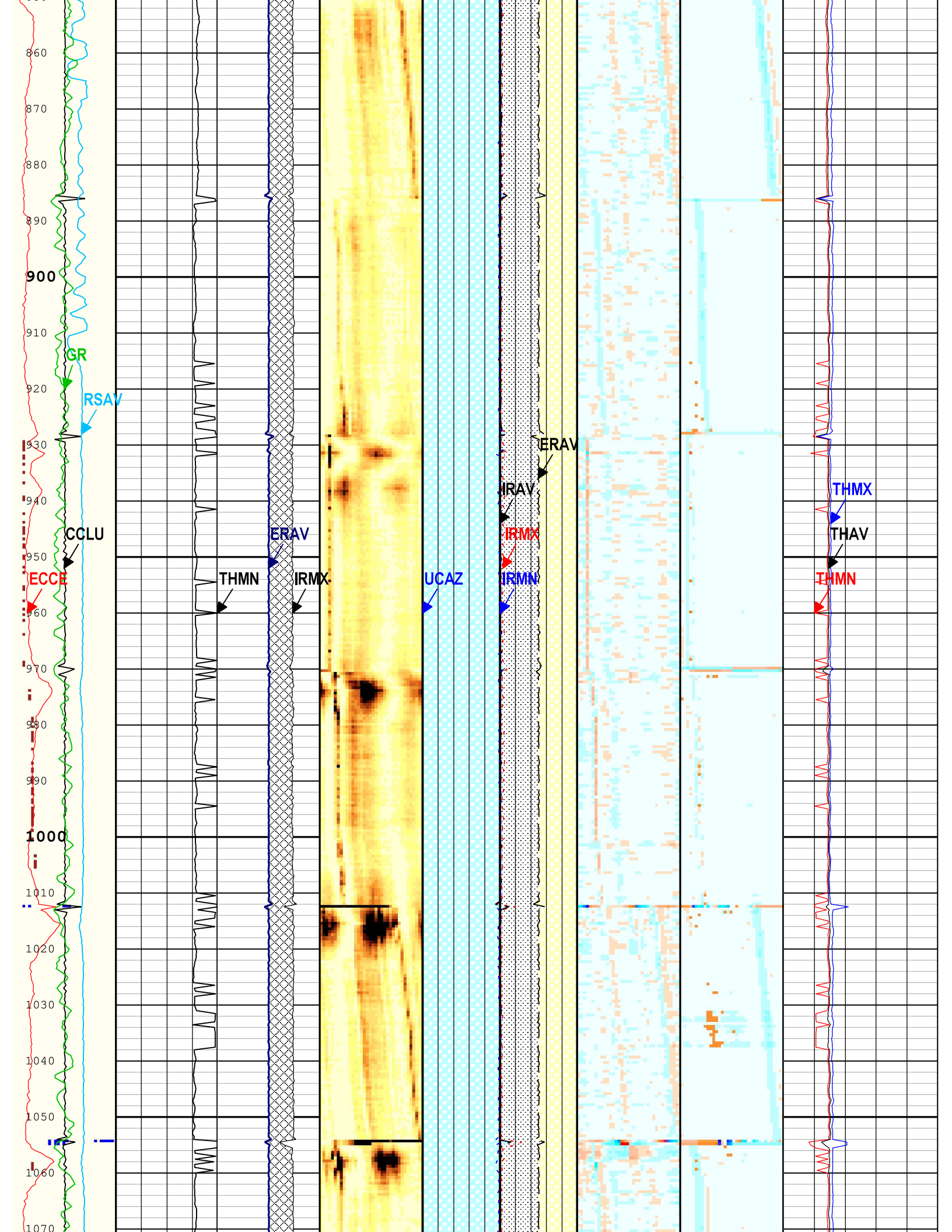
Casing Collar Locator Ultrasonic (CCLU) USIT-E	Large Reduction from Nominal Thickness	(Between Max Internal and External Average)	Explicit Normalization	Internal Radius Maximum Value (IRMX) USIT-E	Thickness Minimum Value (THMN) USIT-E
-20 in 20	Casing Within 87.5% of Nominal Thickness	Internal Radius Maximum Value (IRMX) USIT-E	USIT - Amplitude of Wave (AWBK) USIT-E (dB)	1.5 in 2.5	0.1 in 0.6
Motor Revolution Speed (RSAV) USIT-E	Thickness Minimum Value (THMN) USIT-E	External Radii Average (ERAV) USIT-E	USIT - Internal Radii Normalized (IRBK) USIT-E (in)	Internal Radius Averaged Value (IRAV) USIT-E	Thickness Average Value (THAV) USIT-E
6 c/s 7.5	0.4 in 0.2	2.75 in 1.75	USIT - Casing Thickness Normalized (THBK) USIT-E (in)	1.5 in 2.5	0.1 in 0.6
GR		Ultrasonic Azimuth (UCAZ) USIT-E		External Radii Average (ERAV) USIT-E	Thickness Maximum Value (THMX) USIT-E
0 gAPI 150		360 deg 0		1.5 in 2.5	0.1 in 0.6

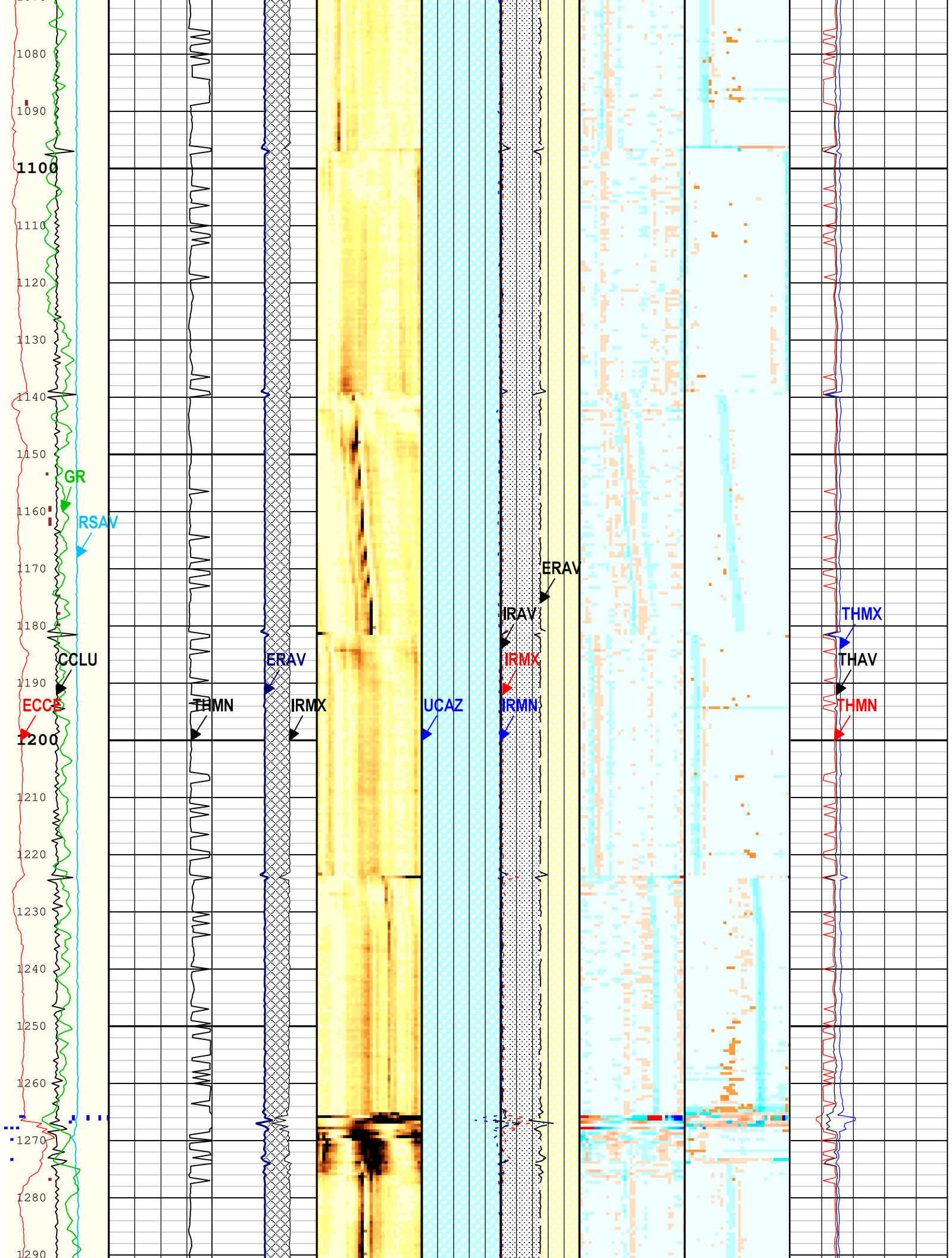


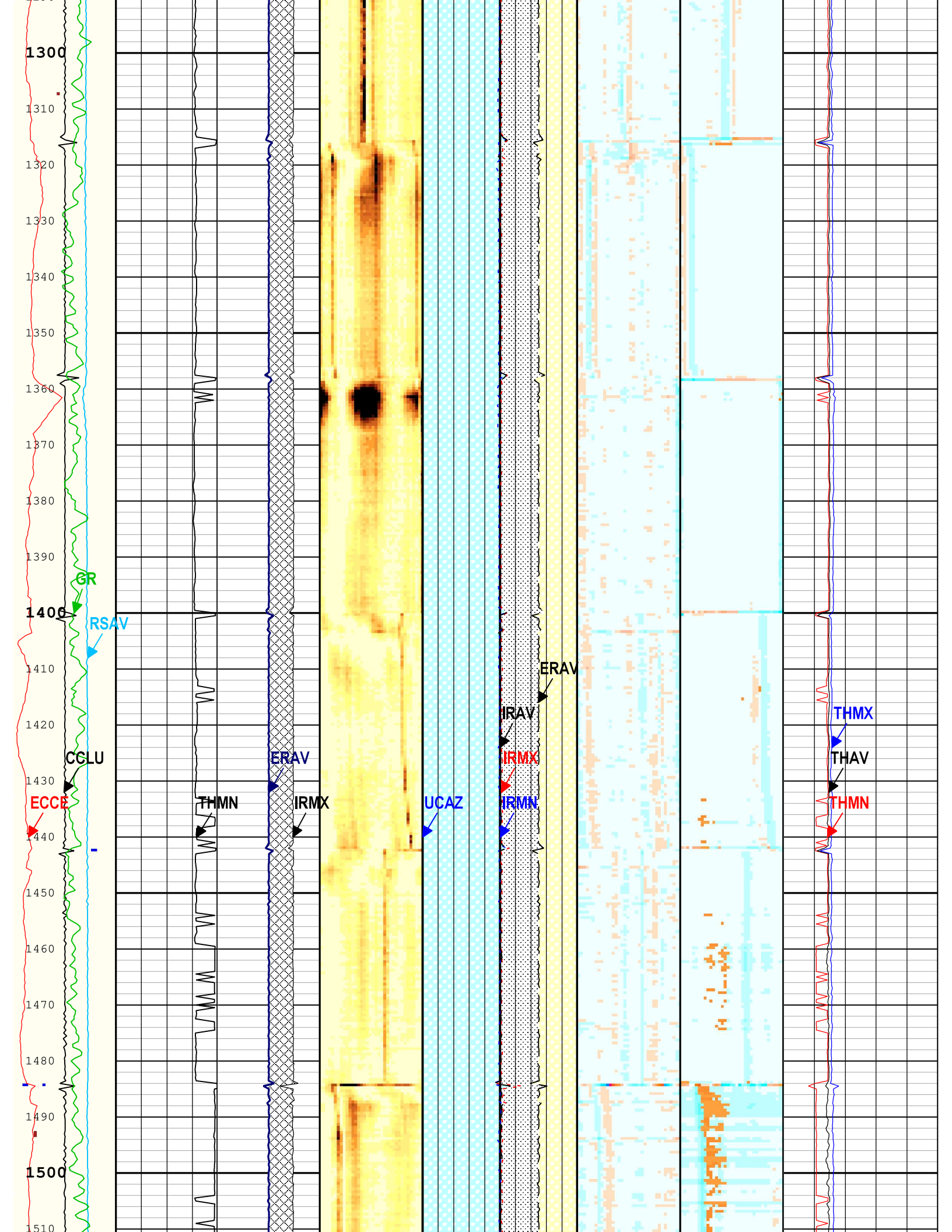


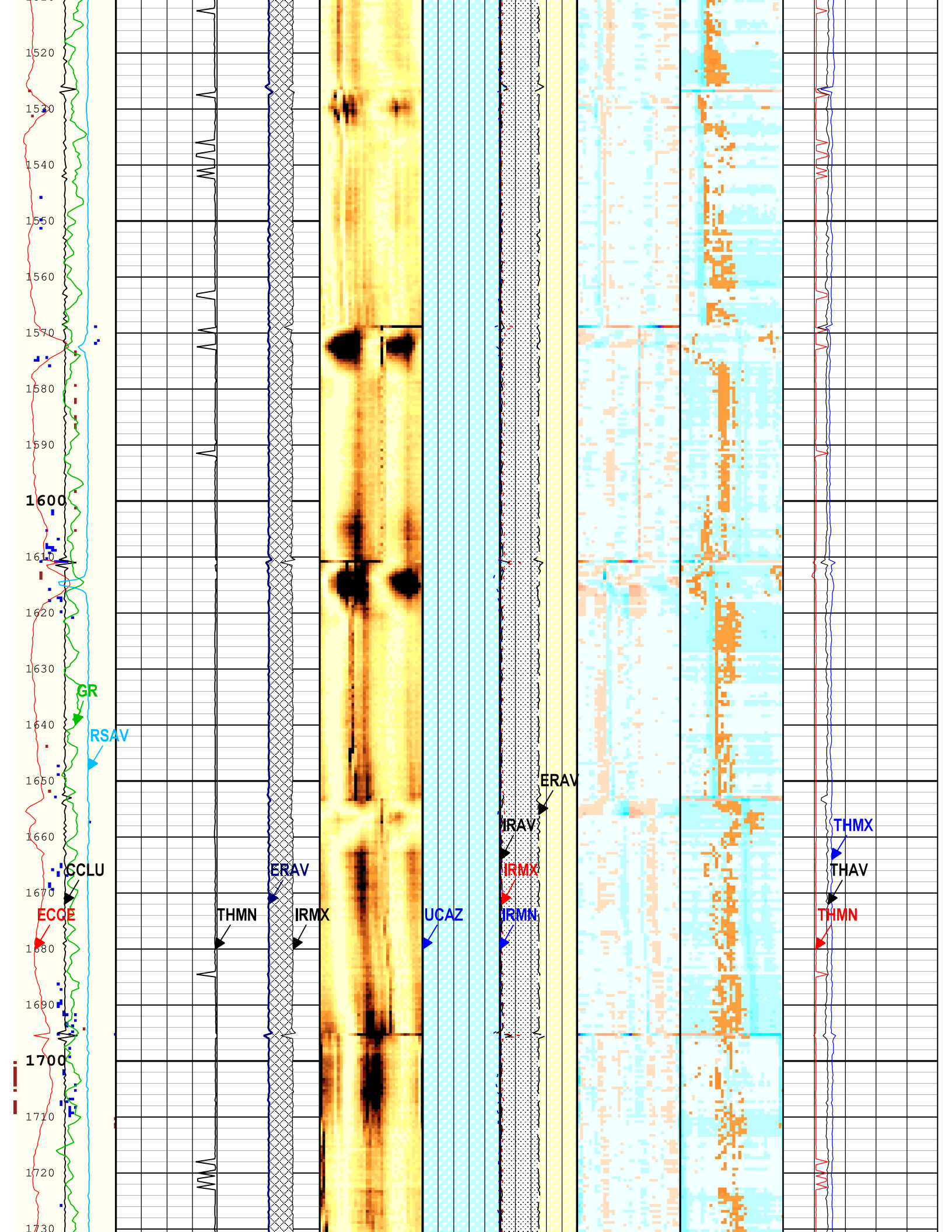


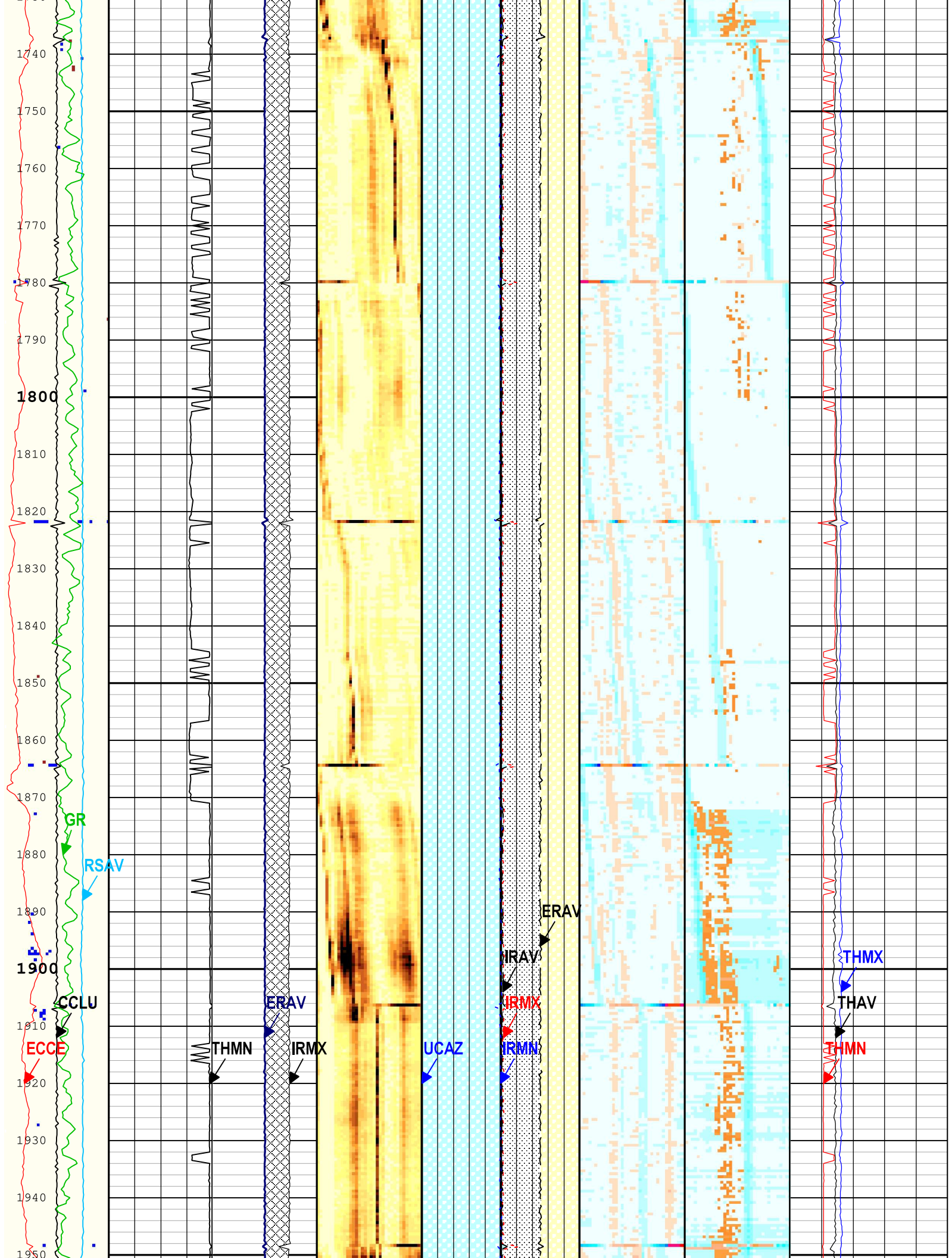


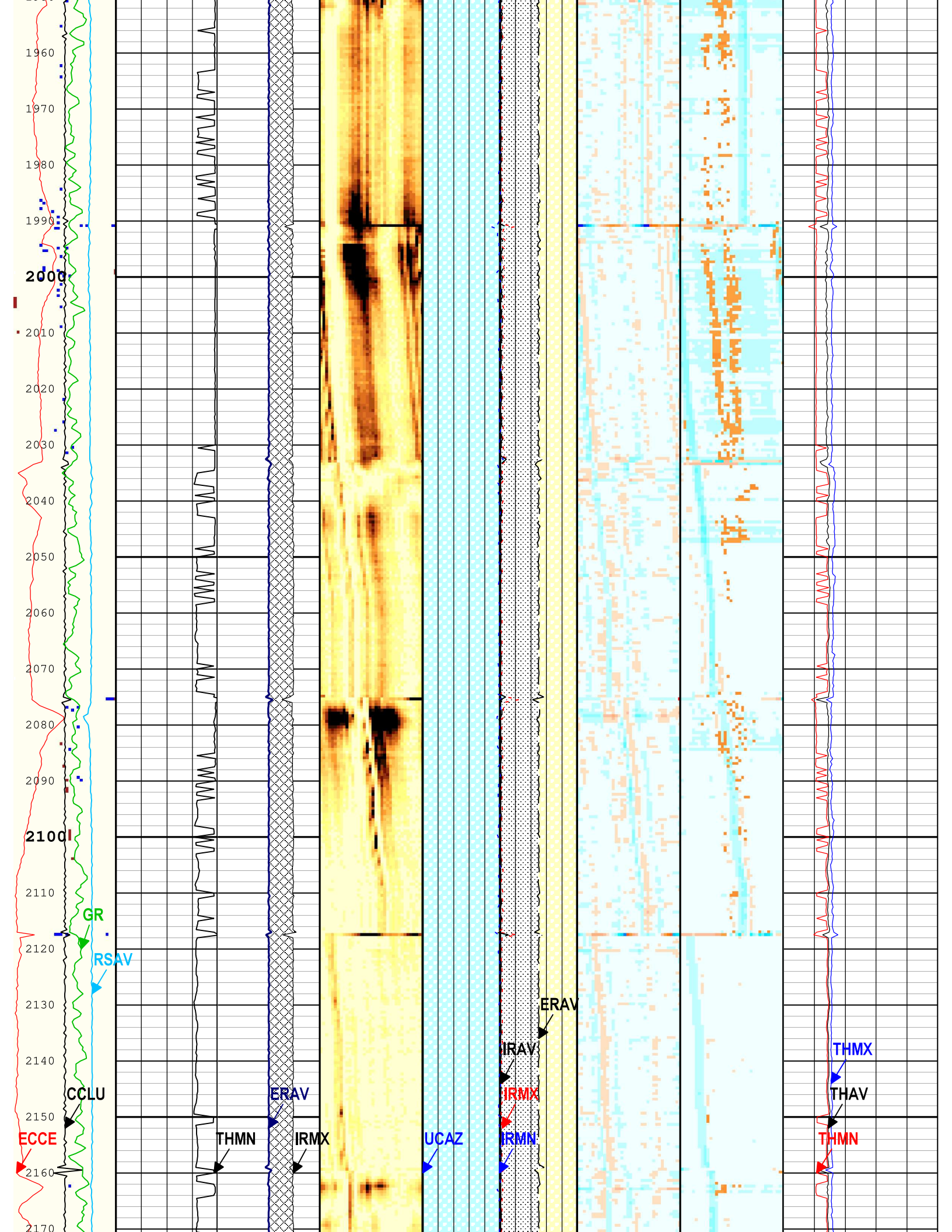


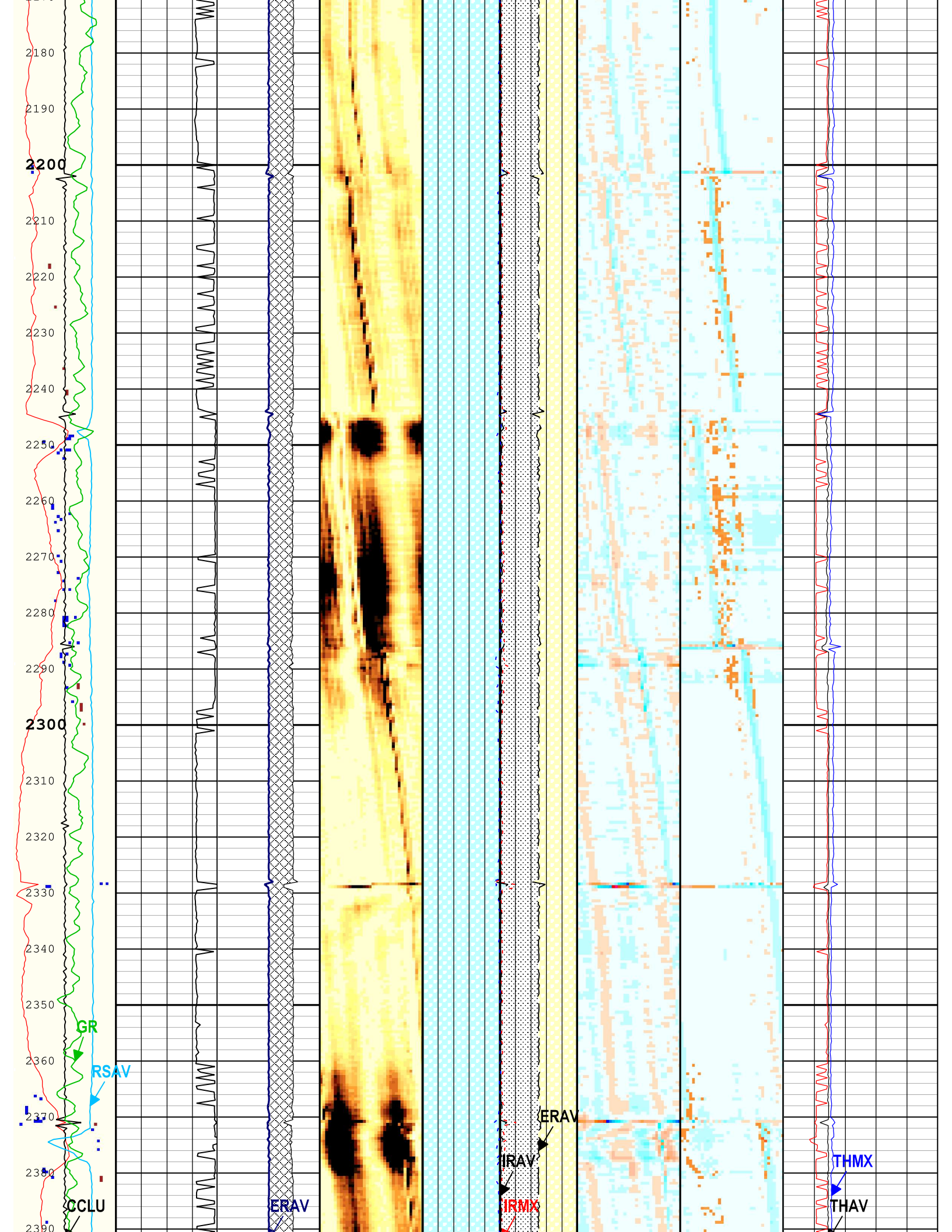


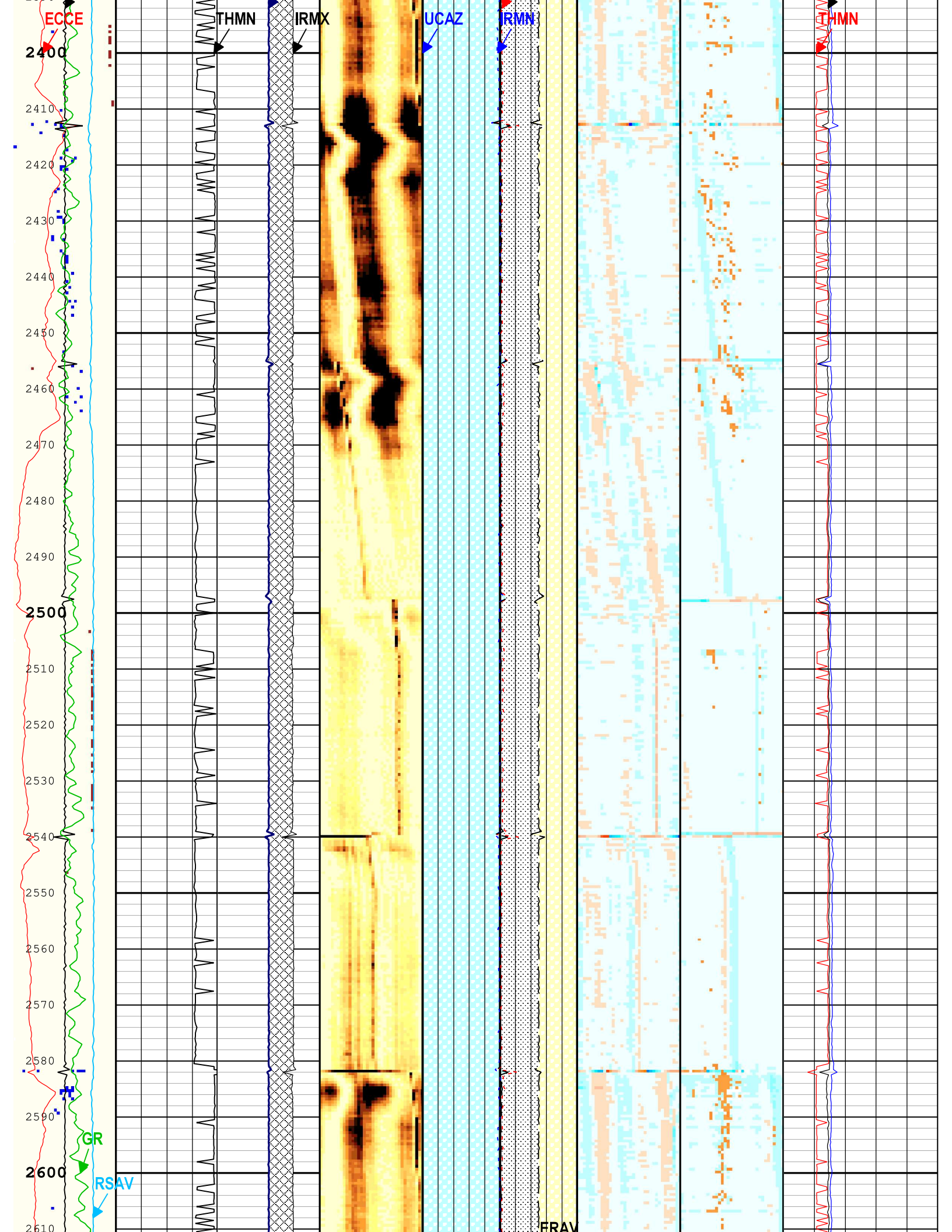


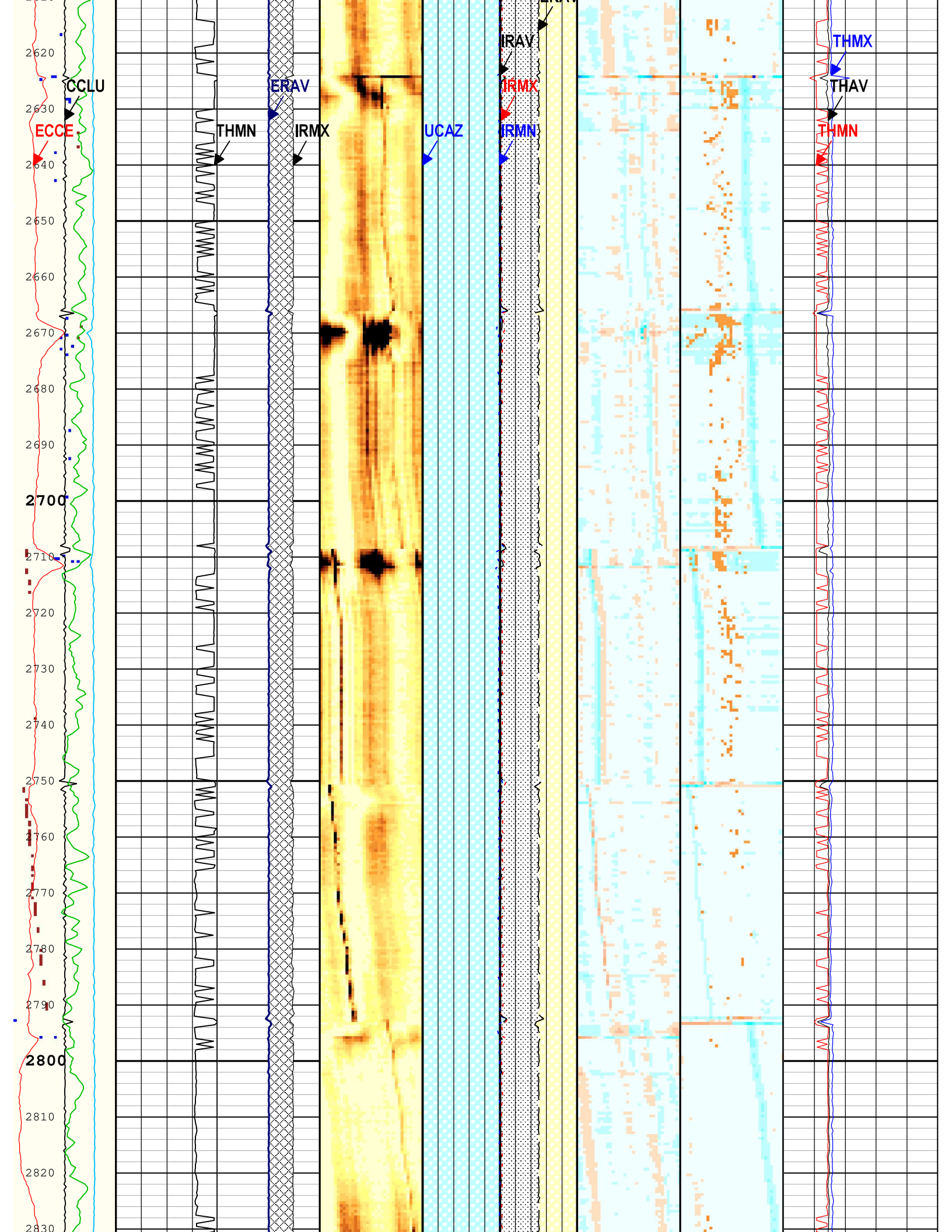


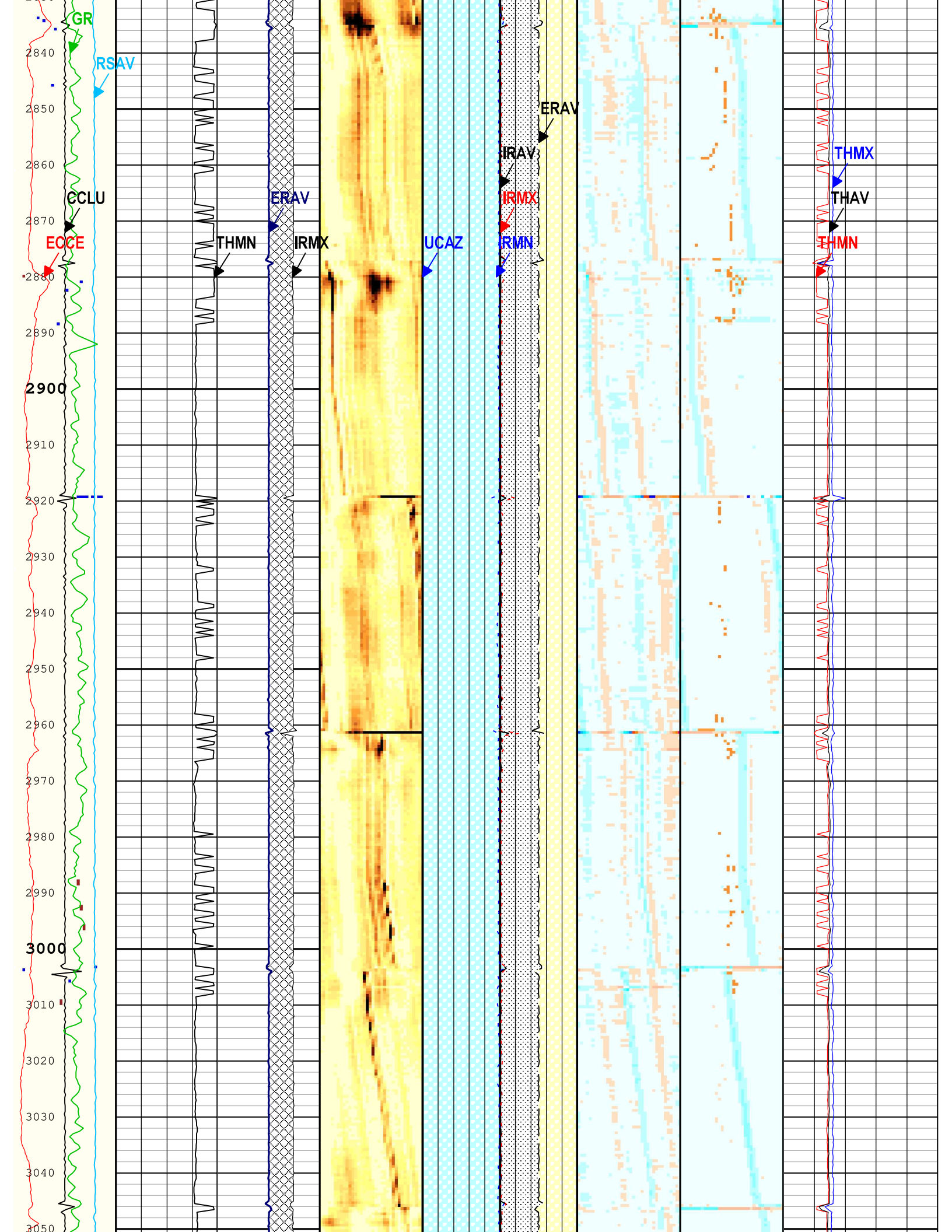


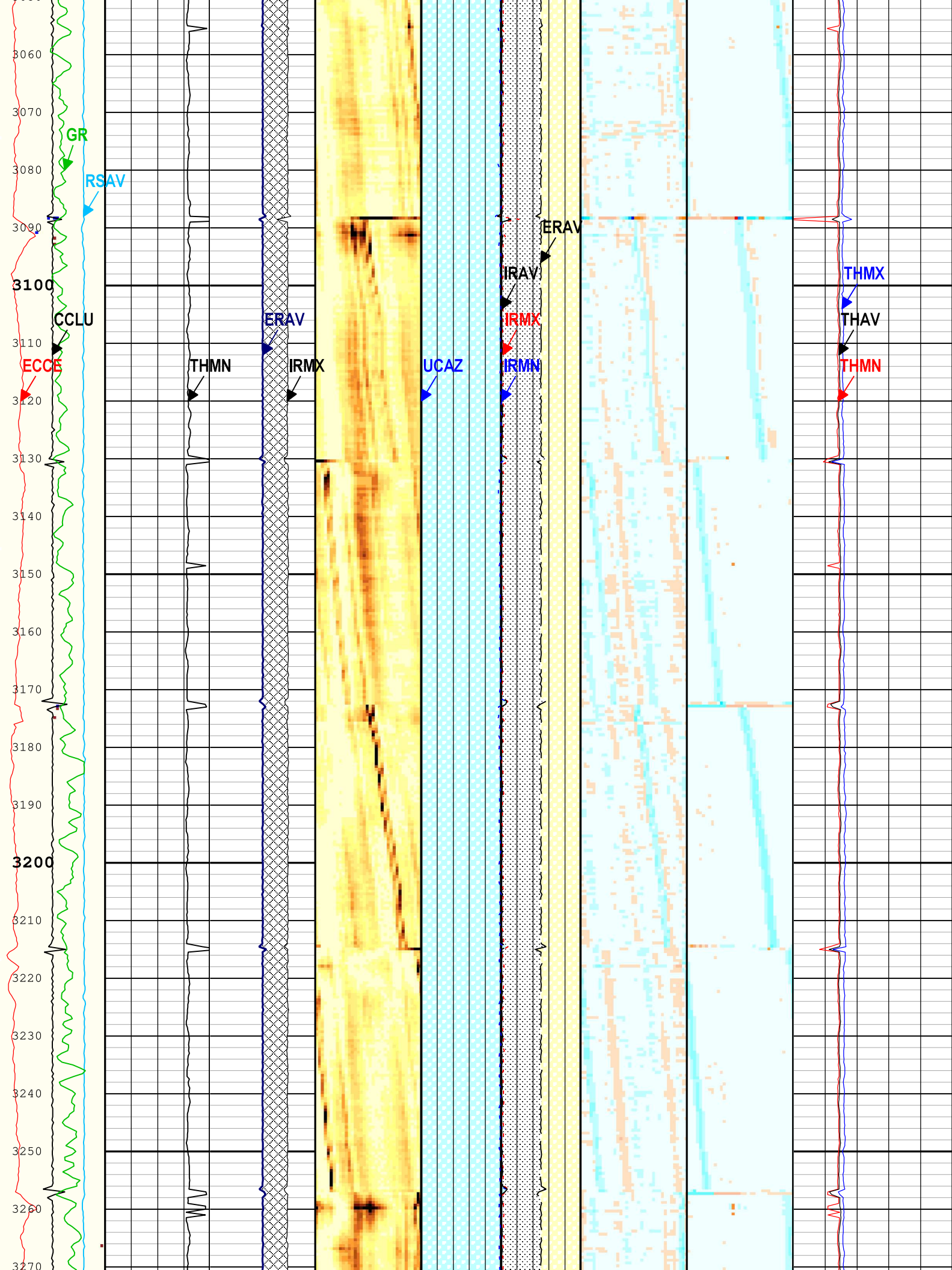


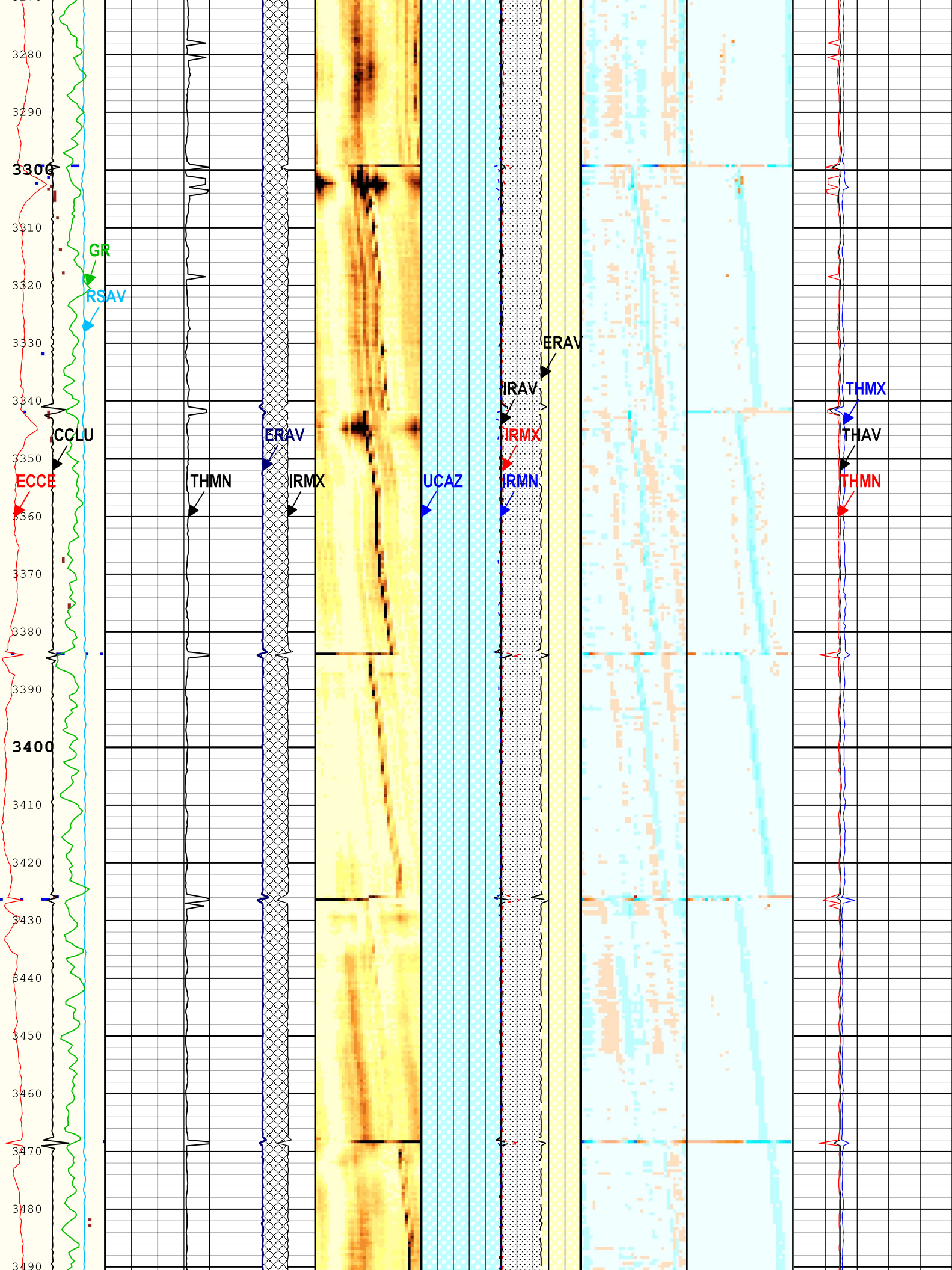


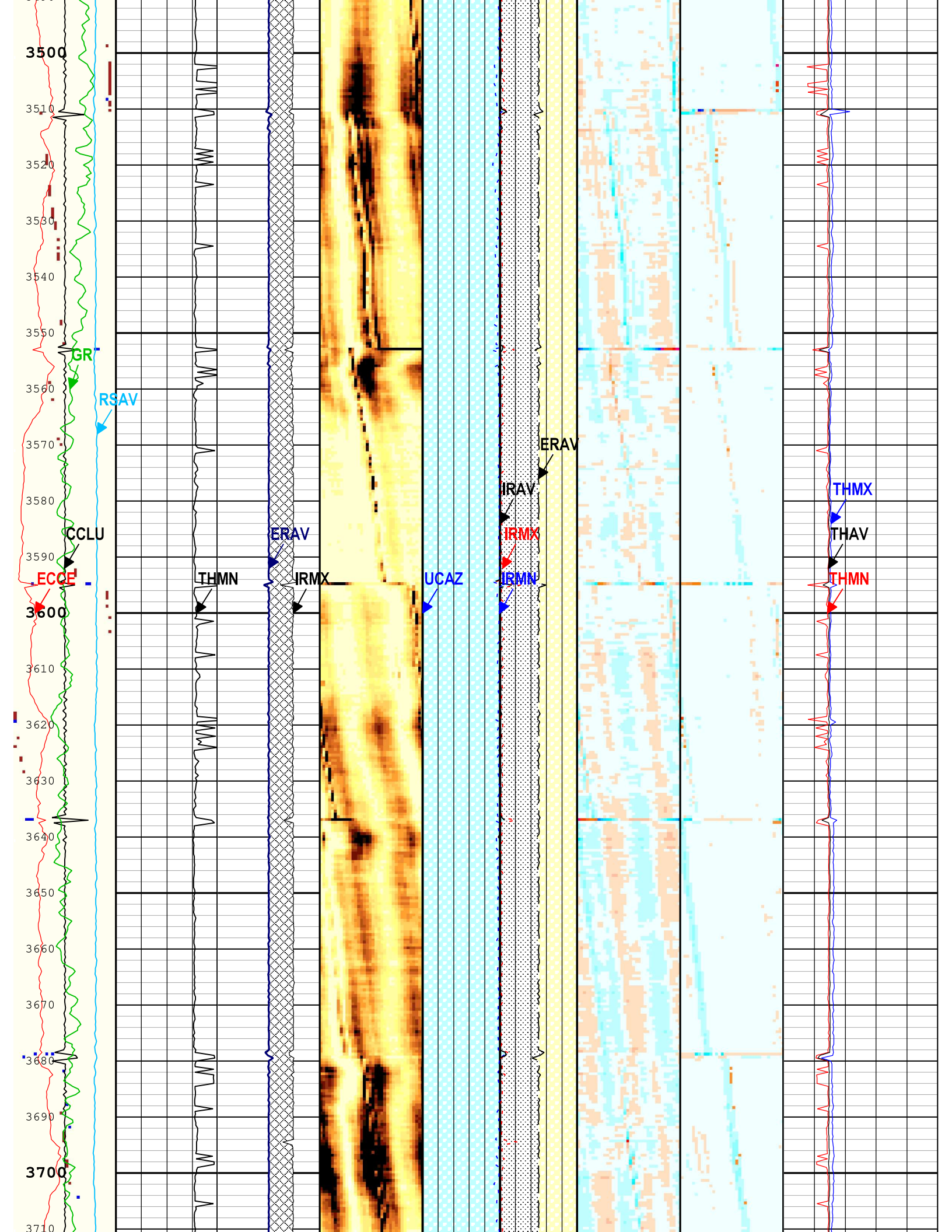


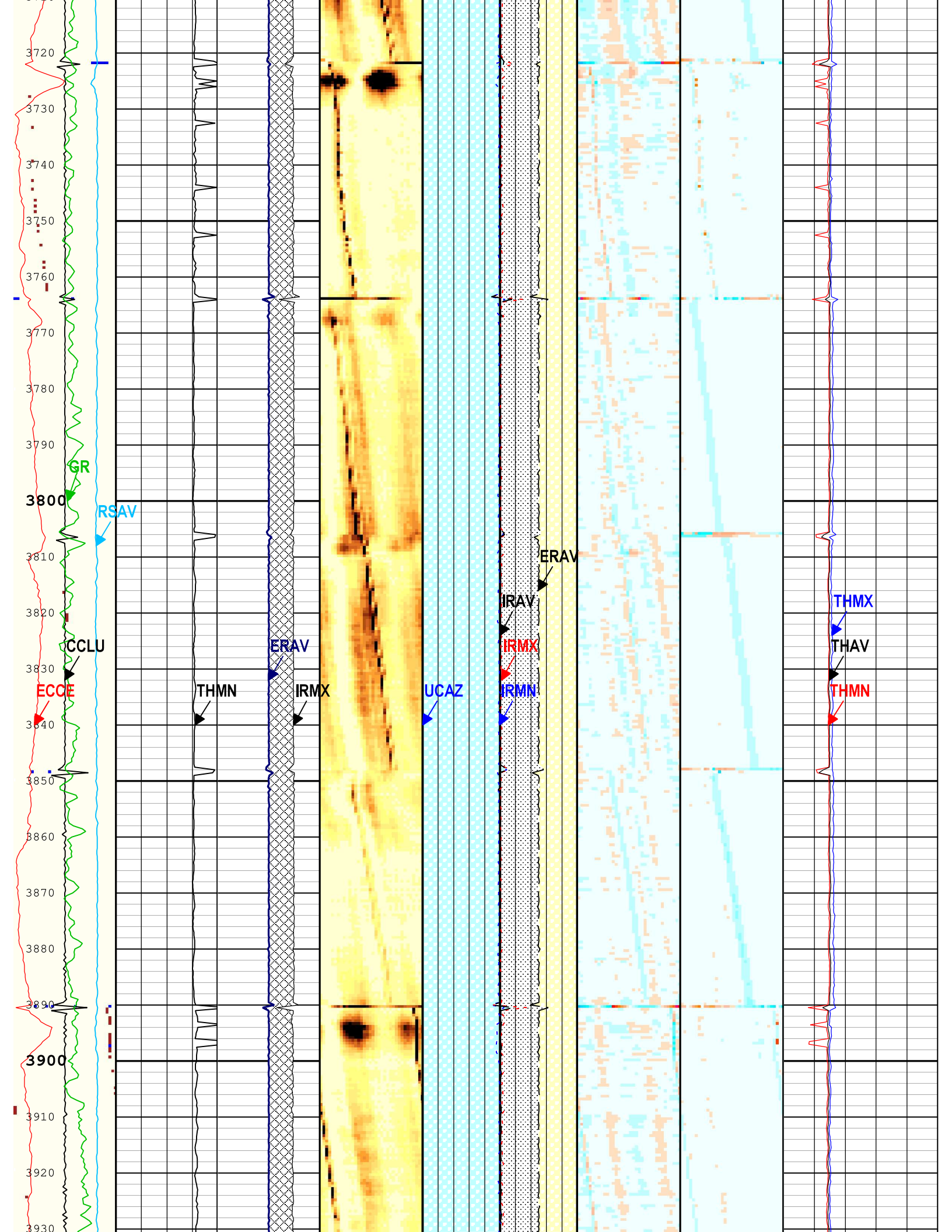


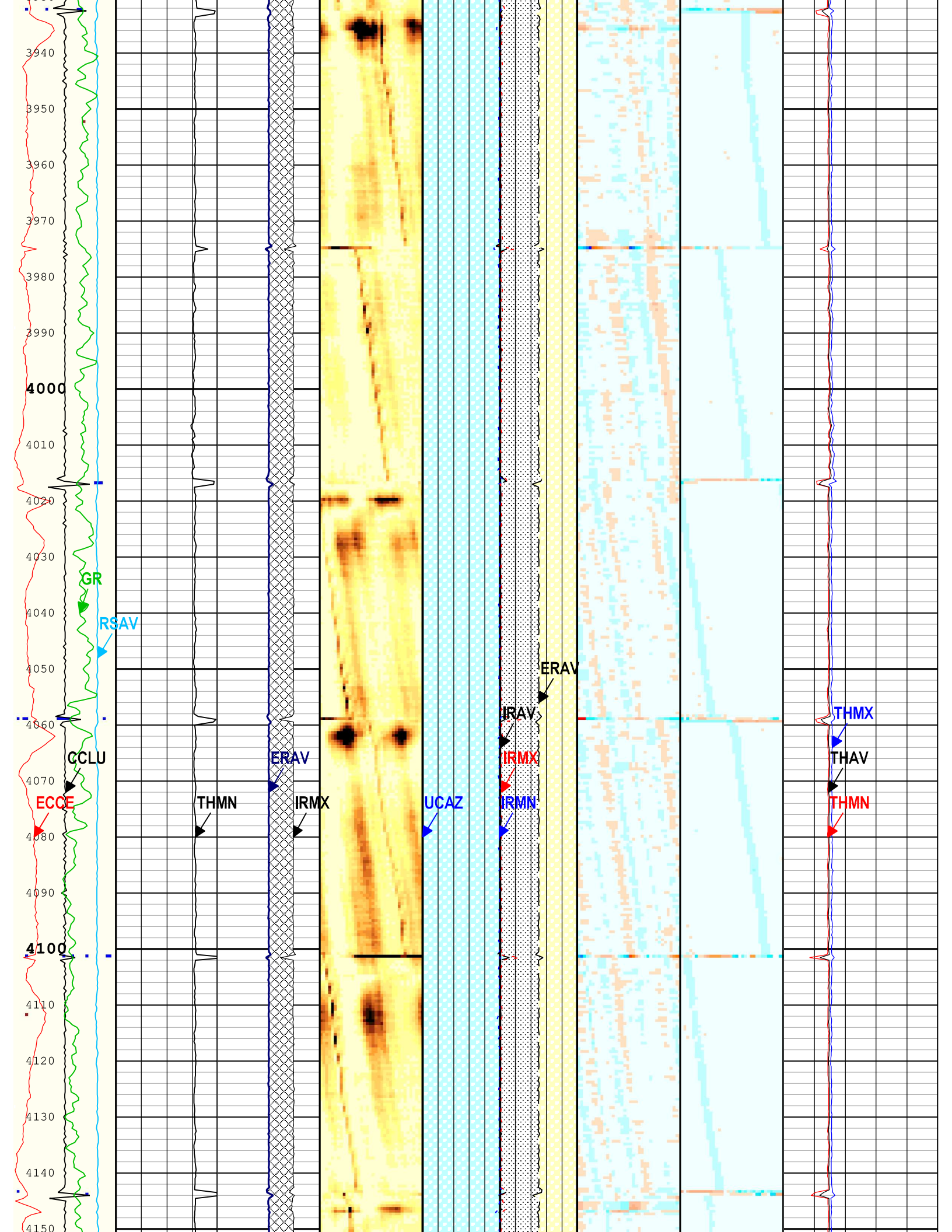


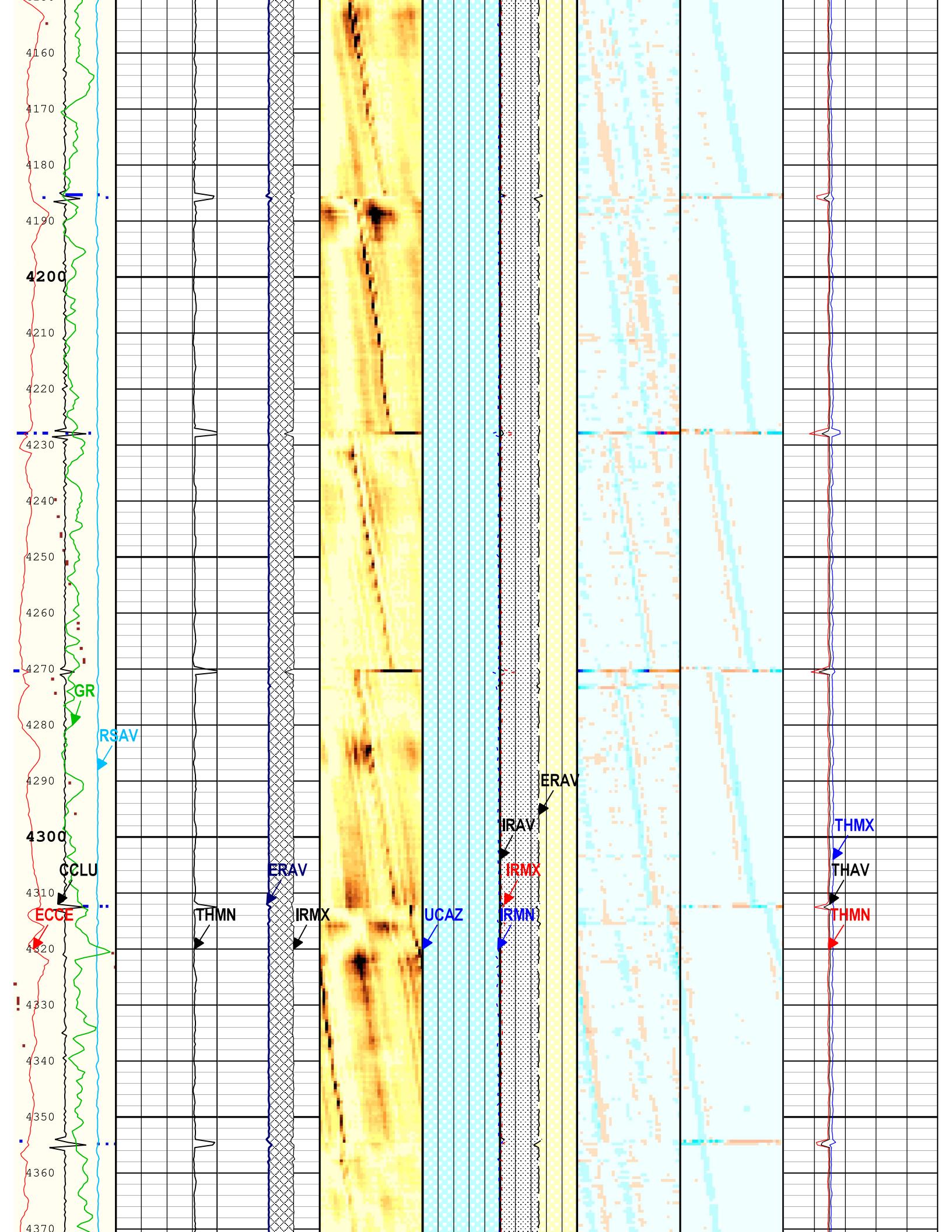


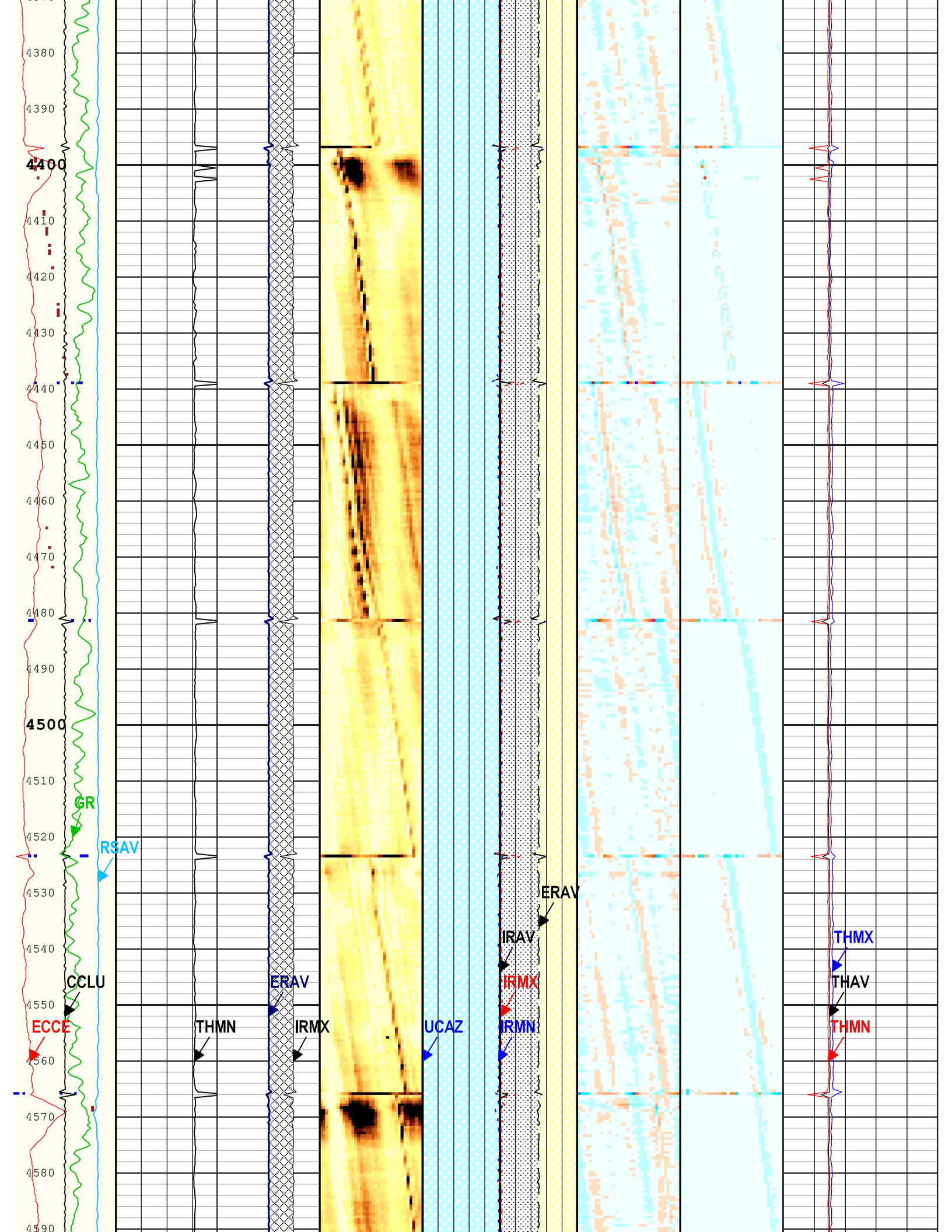


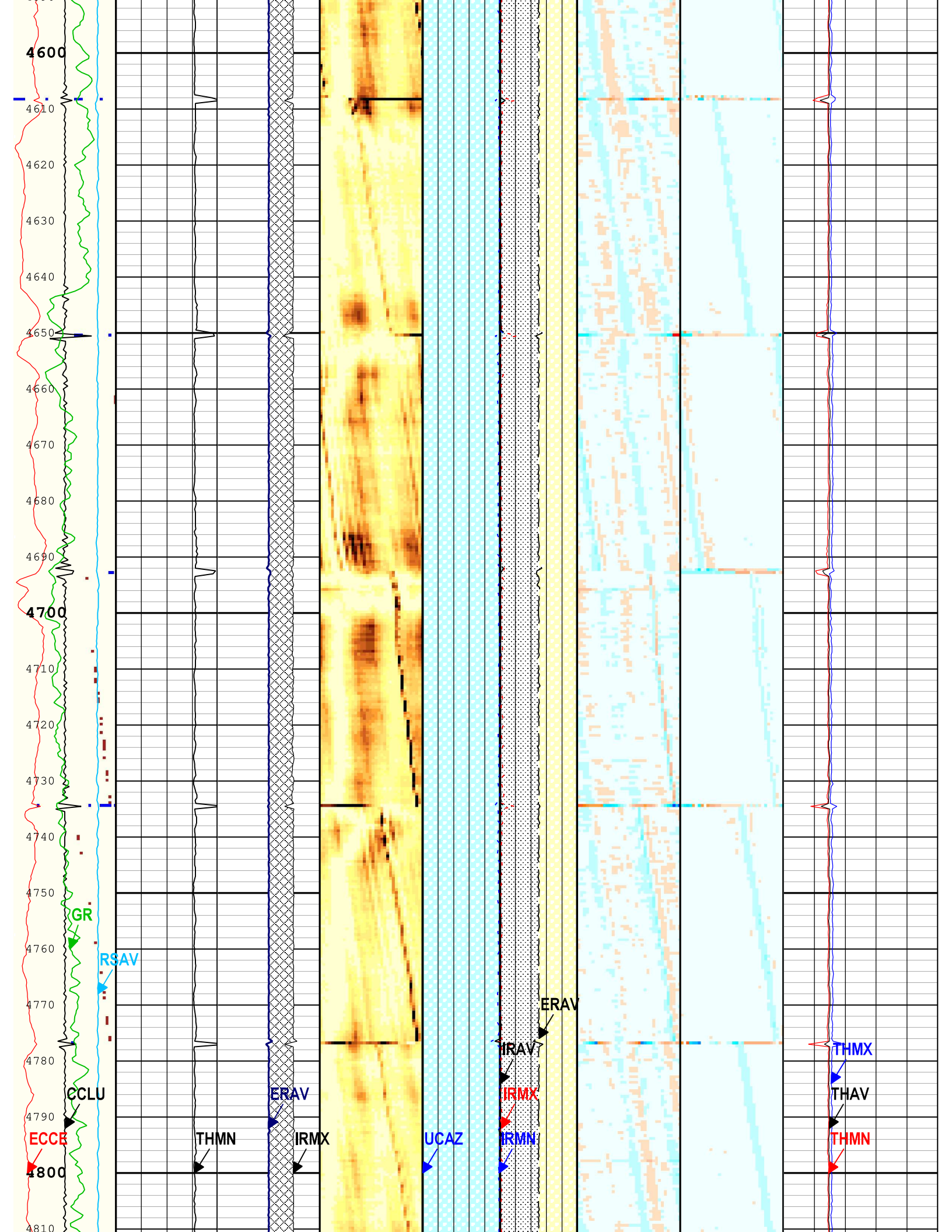


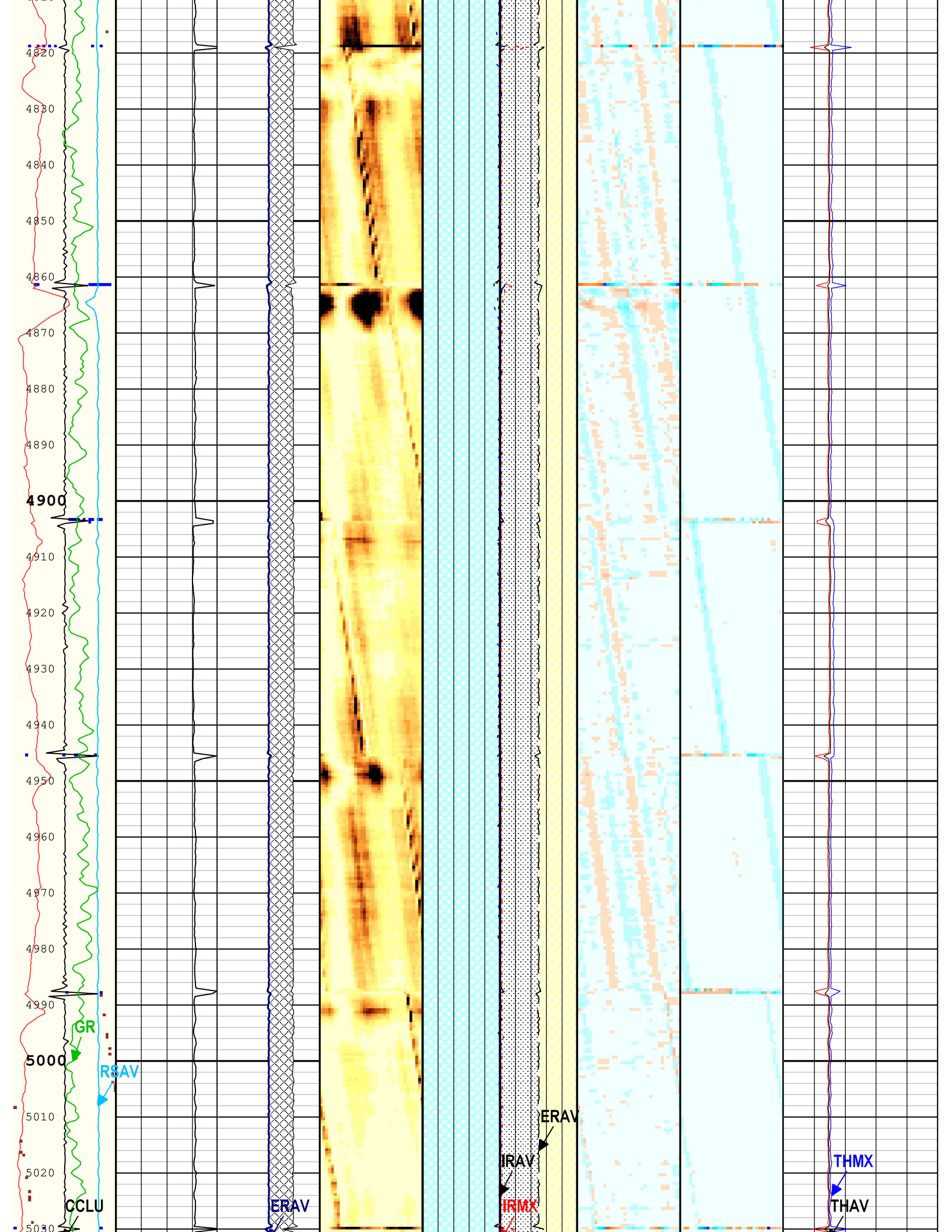


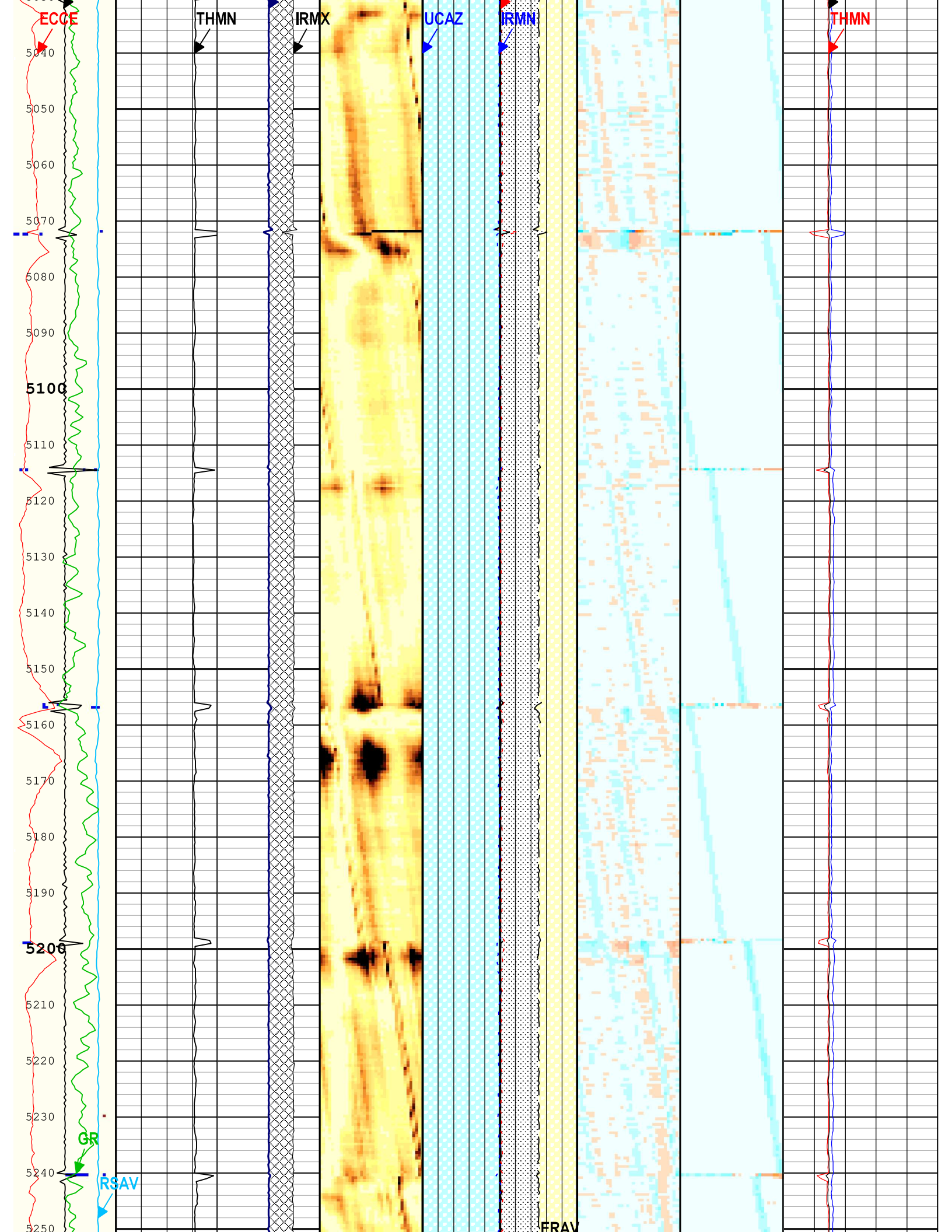


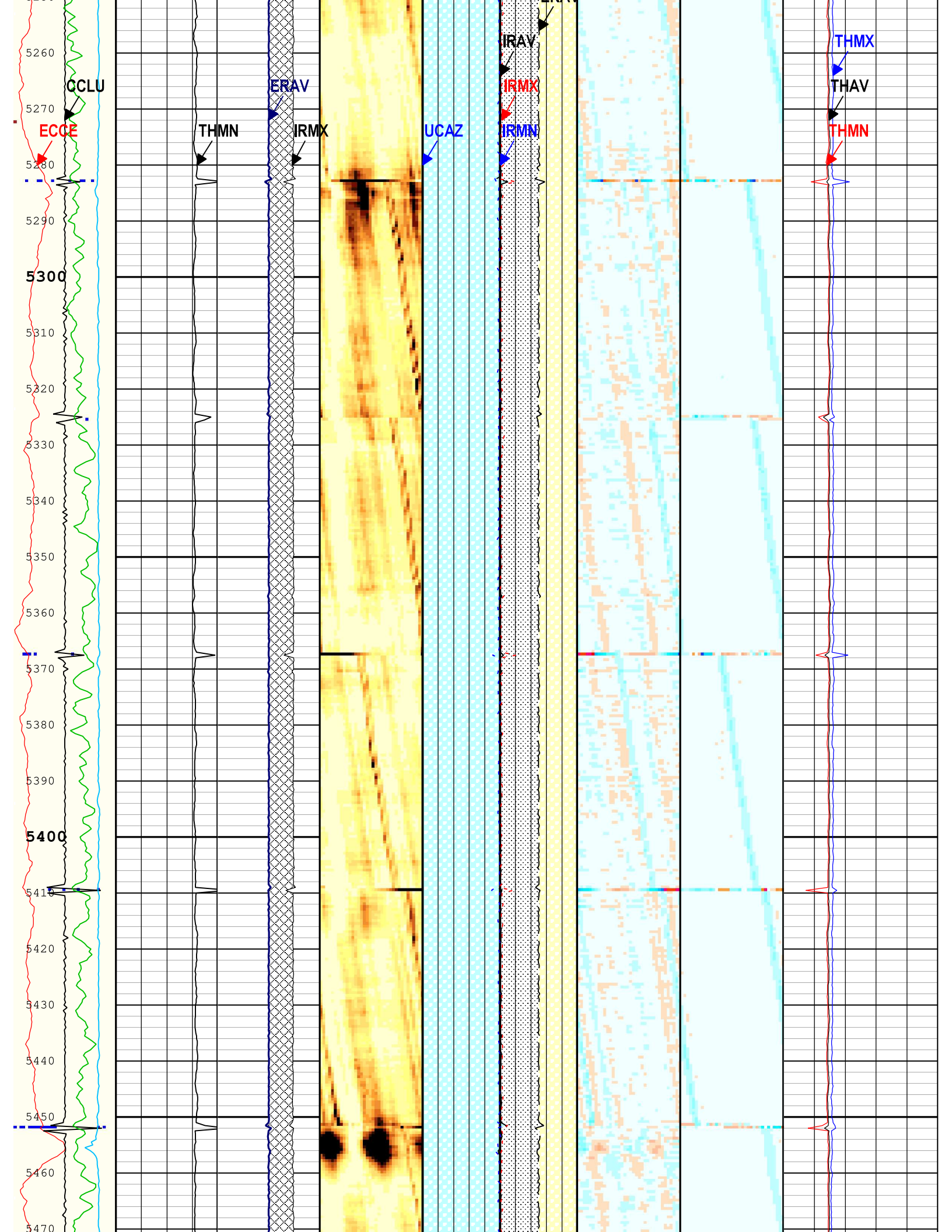


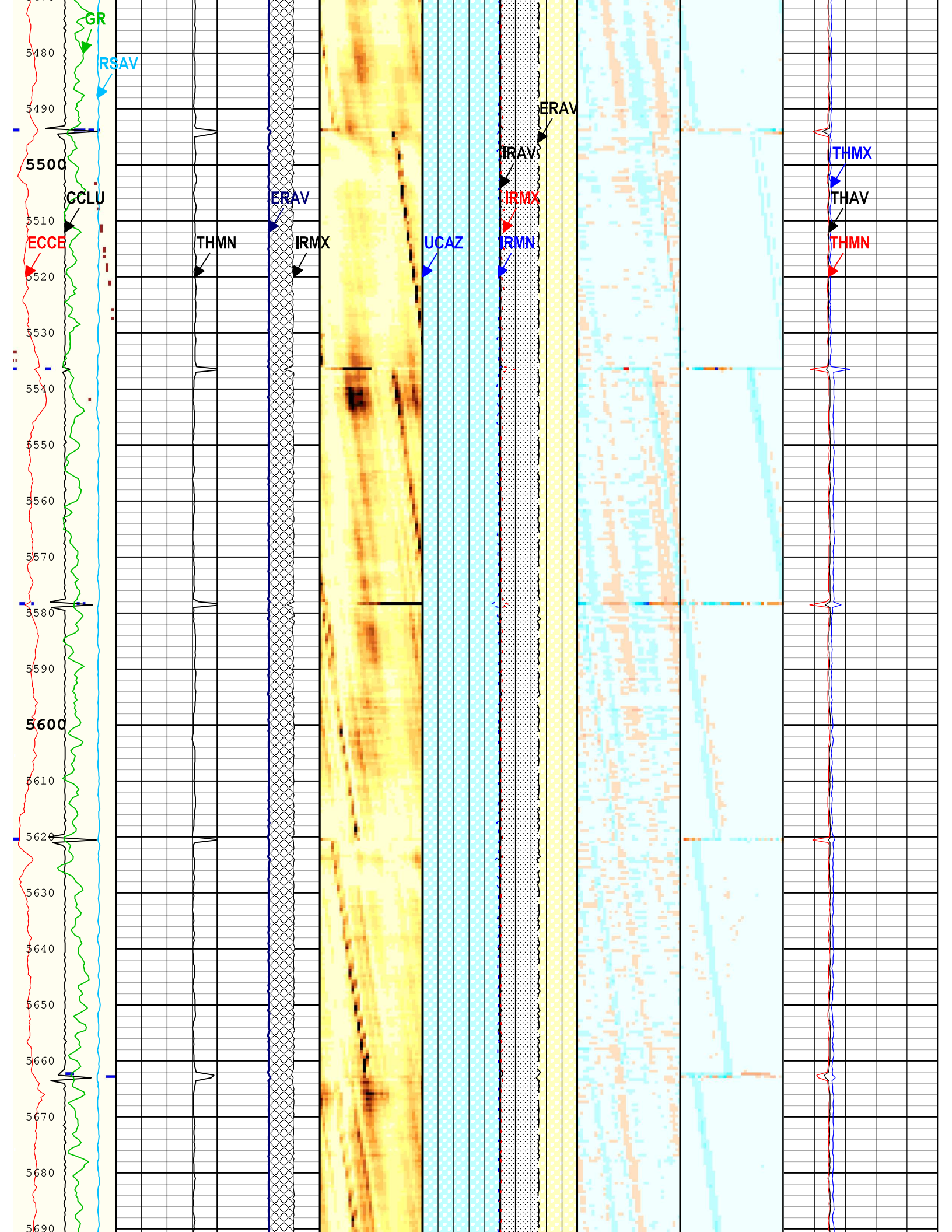


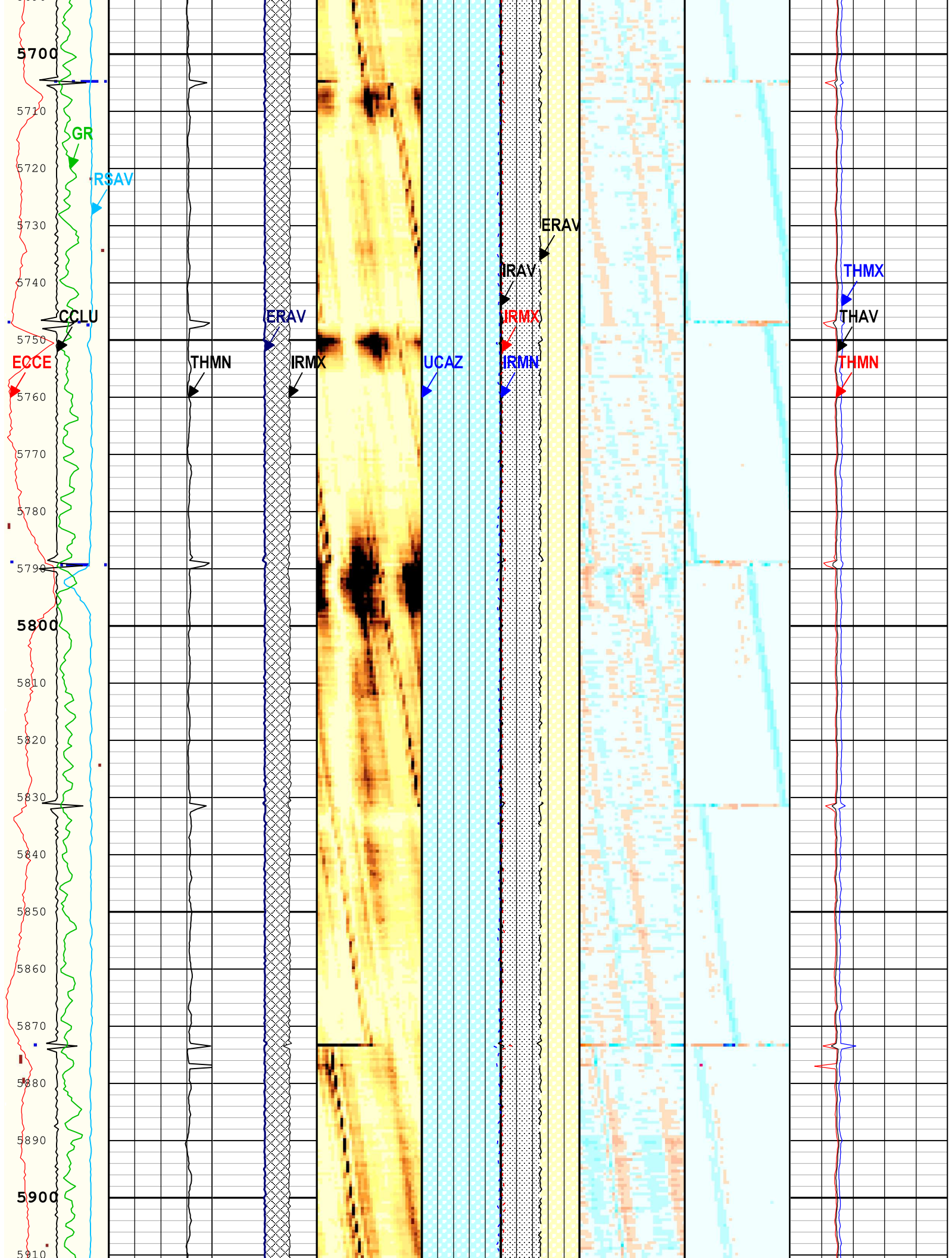


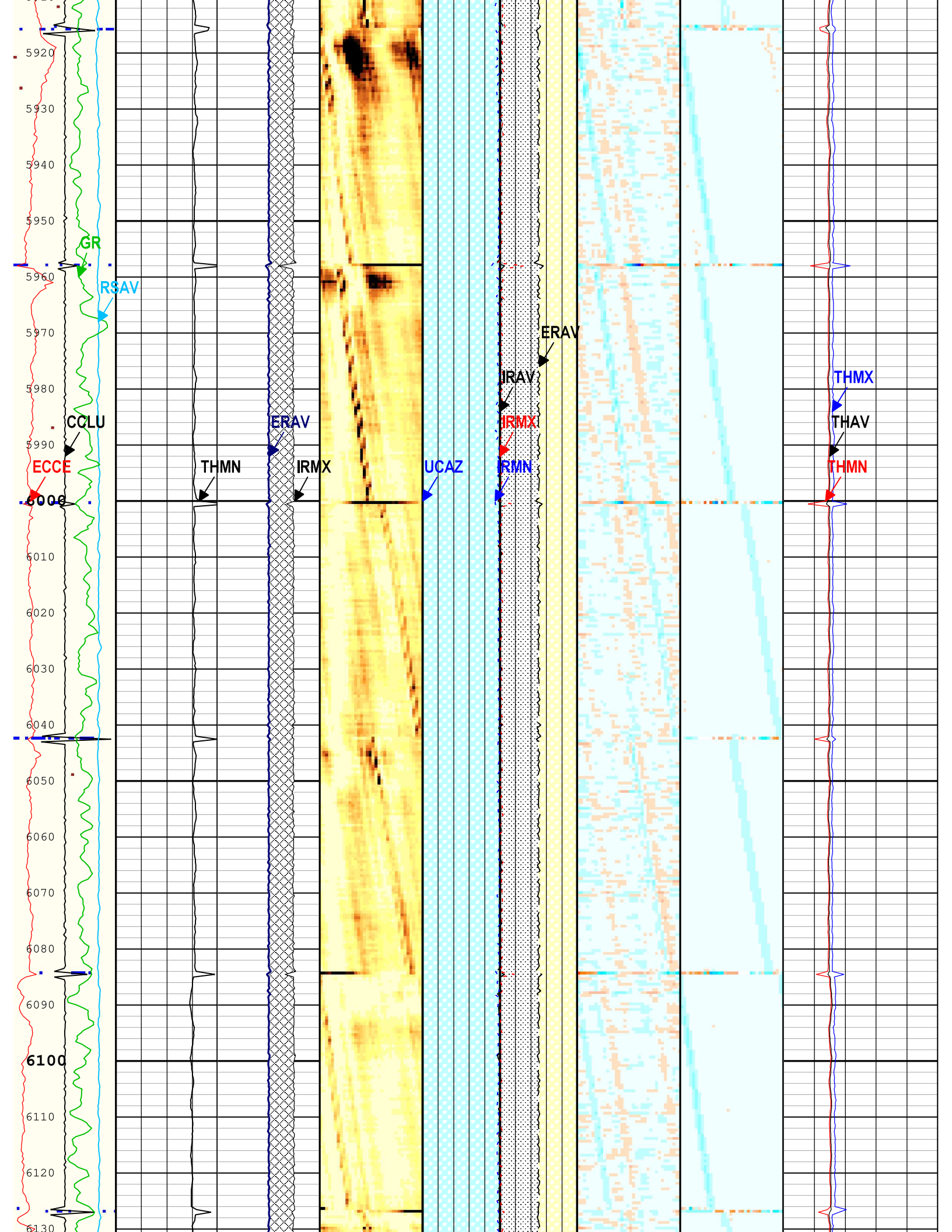


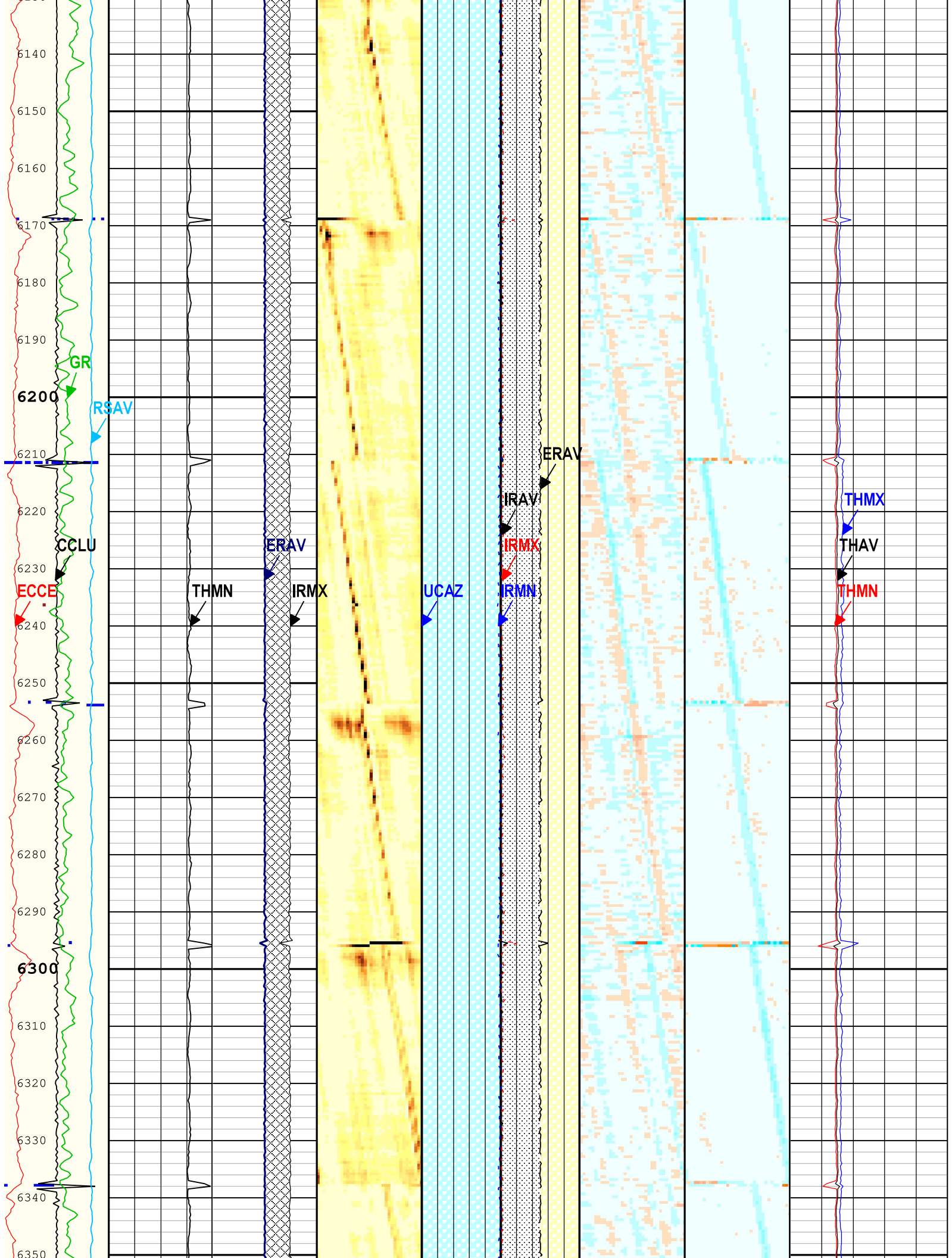


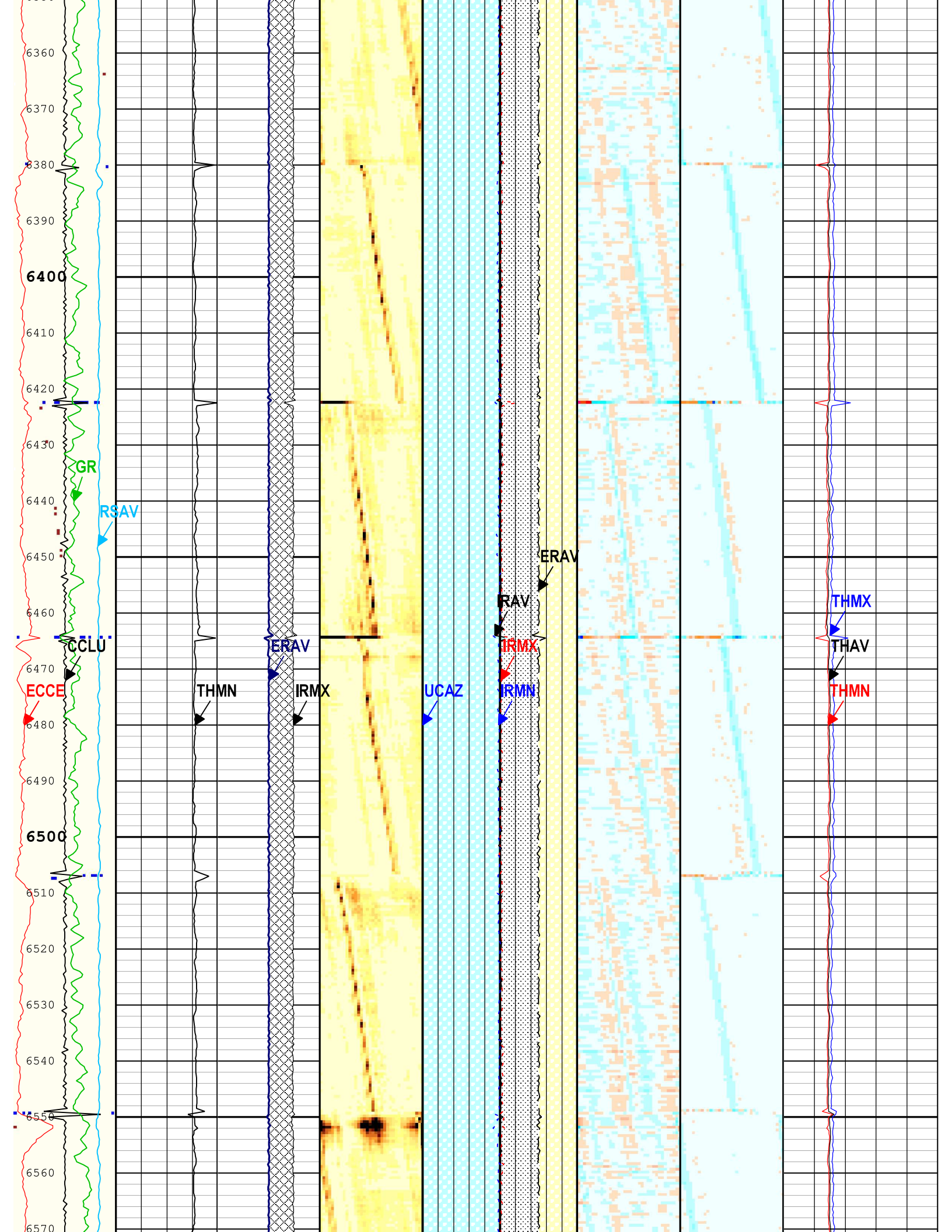


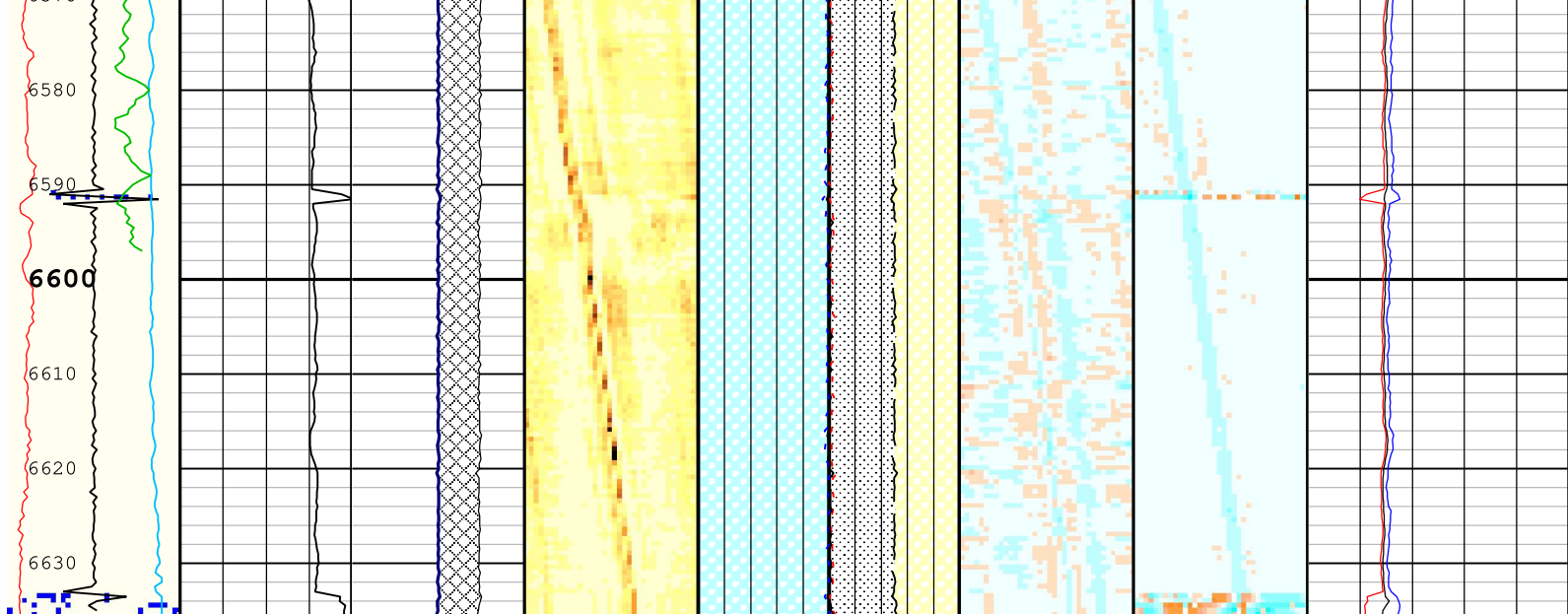












<p>Absent 1.500 3.500</p> <p>Explicit Normalization</p> <p>USIT - USIT Processing Flags (UFLG) USIT-E</p> <p>Amplitude of Eccentering (ECCE) USIT-E</p> <p>0 in 0.5</p> <p>Casing Collar Locator Ultrasonic (CCLU) USIT-E</p> <p>-20 in 20</p> <p>Motor Revolution Speed (RSAV) USIT-E</p> <p>6 c/s 7.5</p> <p>GR</p> <p>0 gAPI 150</p>	<p><b>Large Reduction from Nominal Thickness</b></p> <p>Casing Within 87.5% of Nominal Thickness</p> <p>Thickness Minimum Value (THMN) USIT-E</p> <p>0.4 in 0.2</p>	<p><b>Internal Radius Exceeds External Average</b></p> <p>Casing Thickness (Between Max Internal and External Average)</p> <p>Internal Radius Maximum Value (IRMX) USIT-E</p> <p>2.75 in 1.75</p> <p>External Radii Average (ERAV) USIT-E</p> <p>2.75 in 1.75</p>	<p>Absent -5.200 -3.600 -2.000 -0.400</p> <p>Explicit Normalization</p> <p>USIT - Amplitude of Wave (AWBK) USIT-E (dB)</p> <p>Ultrasonic Azimuth (UCAZ) USIT-E</p> <p>360 deg 0</p>	<p>Internal Radius Minimum Value (IRMN) USIT-E</p> <p>1.5 in 2.5</p> <p>Internal Radius Maximum Value (IRMX) USIT-E</p> <p>1.5 in 2.5</p> <p>Internal Radius Averaged Value (IRAV) USIT-E</p> <p>1.5 in 2.5</p> <p>External Radii Average (ERAV) USIT-E</p> <p>1.5 in 2.5</p>	<p>Absent -0.059 -0.028 0.004 0.035 0.068</p> <p>Explicit Normalization</p> <p>USIT - Internal Radii Normalized (IRBK) USIT-E (in)</p>	<p>Absent -0.059 -0.028 0.004 0.035 0.068</p> <p>Explicit Normalization</p> <p>USIT - Casing Thickness Normalized (THBK) USIT-E (in)</p>	<p>Thickness Minimum Value (THMN) USIT-E</p> <p>0.1 in 0.6</p> <p>Thickness Average Value (THAV) USIT-E</p> <p>0.1 in 0.6</p> <p>Thickness Maximum Value (THMX) USIT-E</p> <p>0.1 in 0.6</p>
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TIME\_1900 - Time Marked every 60.00 (s)

Description: USI Corrosion Format: Log ( IBC Casing Integrity 5.5IN ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 15-Mar-2022 12:10:40

## Channel Processing Parameters

### One: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BS	Bit Size	WLSESSION	Depth Zoned	in
CDEN	Cement Density	USIT-E	0	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	206	us/ft
FD	Fluid Density	USIT-E	10	lbm/gal
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	15.96	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	FreePipe Norm.	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.37	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.29	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	0	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	1.54	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	20.5	805
BS	7.875	805	6636.5

All depth are actual.

## Tool Control Parameters

### One: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	36	dB
EMXV	EMEX Voltage	USIT-E	80	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	
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	

One

## Software Version

Acquisition System	Version
Maxwell 2022.0	12.0.215014.3100
Application Patch	Wireline_Hotfix-Mandatory-2022.0_12.0.216515

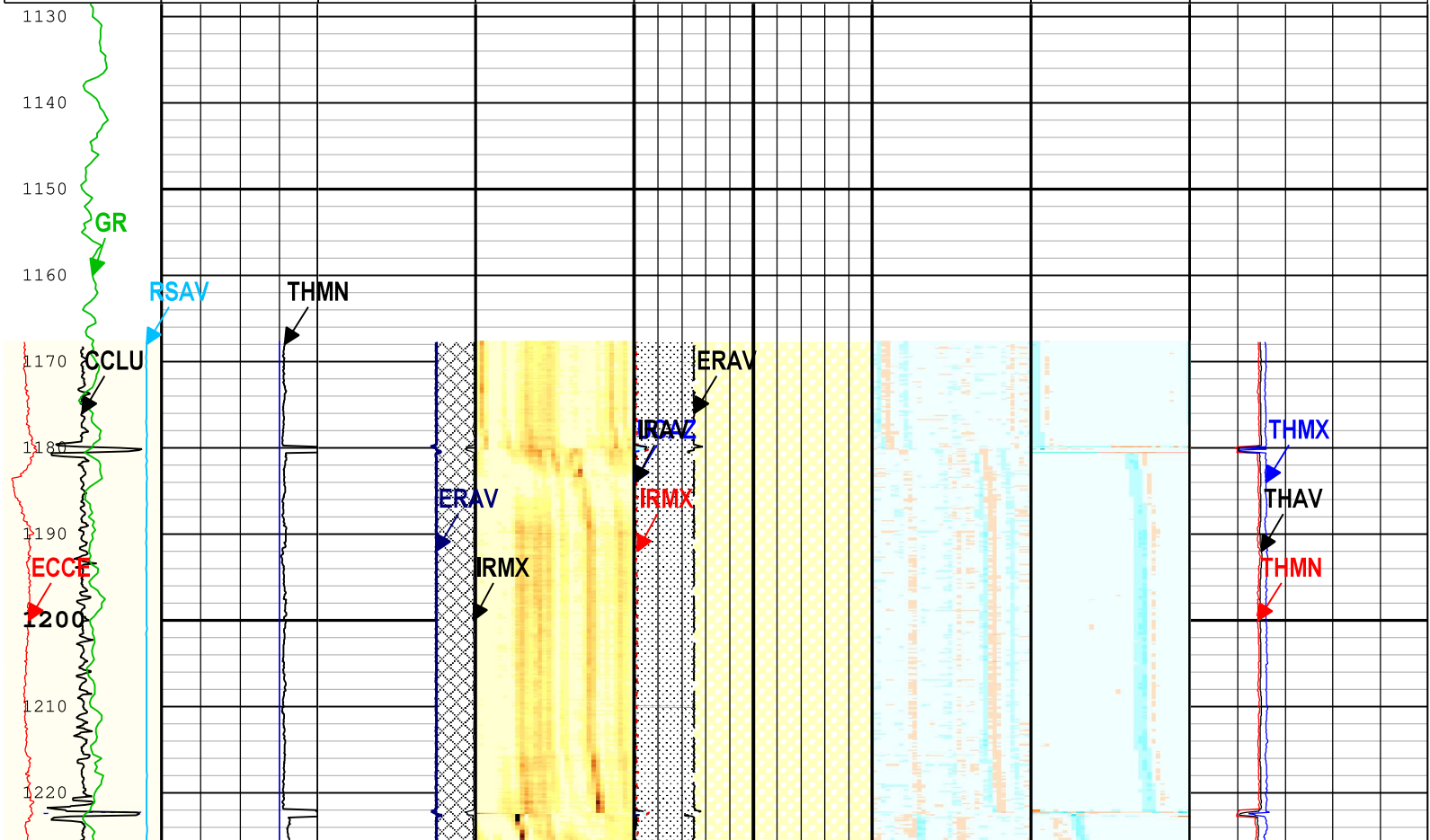
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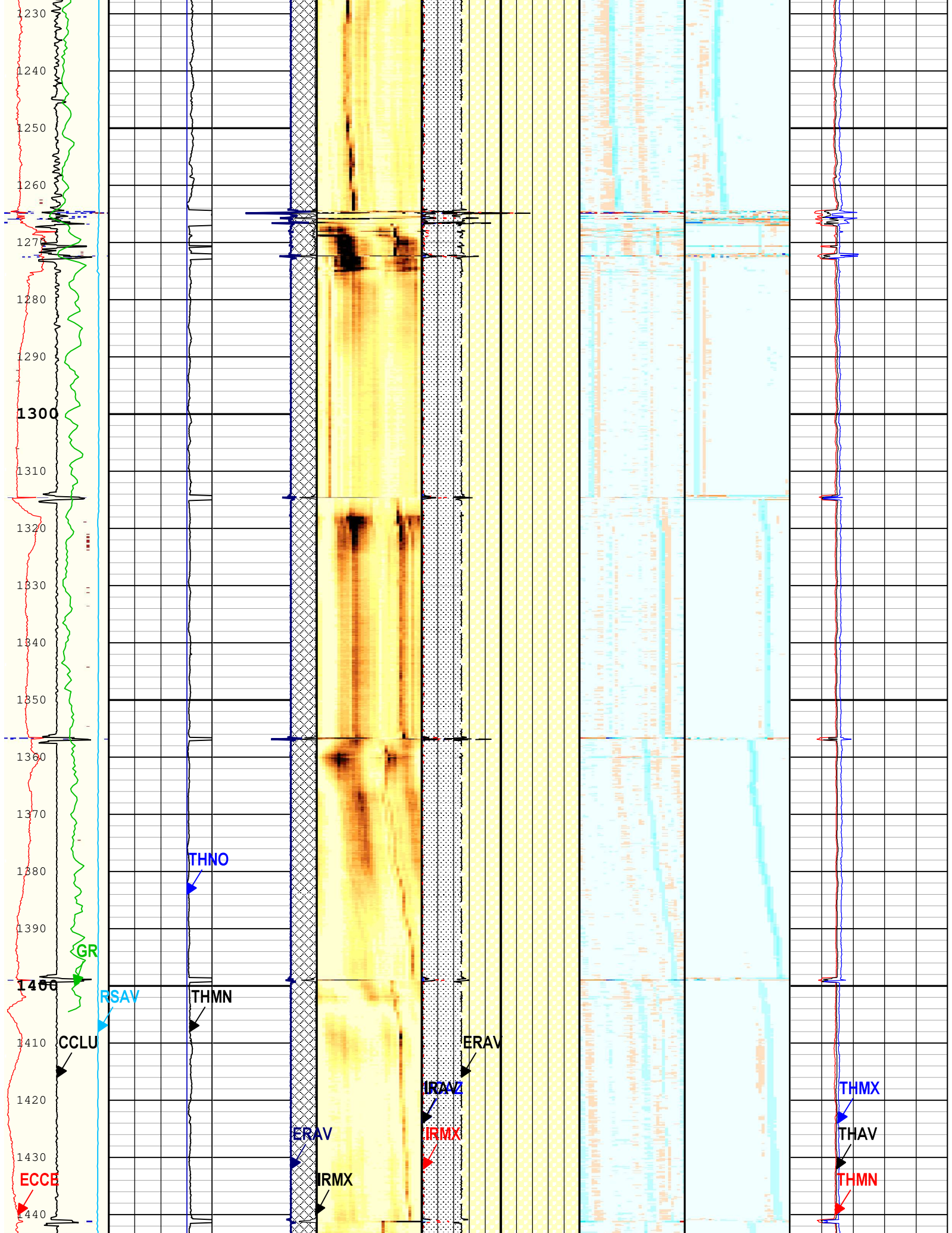
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[2]:Up	Up	1168.43 ft	1444.98 ft	15-Mar-2022 7:00:59 AM	15-Mar-2022 7:09:20 AM	ON	-5.31 ft	Yes



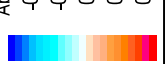
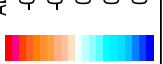
Description: USI Corrosion Format: Log ( IBC Casing Integrity HiRes 5.5IN ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth  
Creation Date: 15-Mar-2022 12:10:53

TIME\_1900 - Time Marked every 60.00 (s)

Absent 1,500 3,500 Explicit Normalization USIT - USIT Processing Flags (UFLG) USIT-E	<b>Amplitude of Eccentering (ECCE) USIT-E</b> 0 in 0.5	<b>Large Reduction from Nominal Thickness</b>	<b>Internal Radius Exceeds External Average</b>	Absent -5,200 -3,600 -2,000 -400 Explicit Normalization USIT - Amplitude of Wave (AWBK) USIT-E (dB)	<b>Internal Radius Minimum Value (IRMN) USIT-E</b> 2 in 3	Absent -0.059 -0.028 0.004 0.035 0.068 Explicit Normalization USIT - Internal Radii Normalized (IRBK) USIT-E (in)	Absent -0.059 -0.028 0.004 0.035 0.068 Explicit Normalization USIT - Casing Thickness Normalized (THBK) USIT-E (in)	<b>Thickness Minimum Value (THMN) USIT-E</b> 0.1 in 0.6
					<b>Casing Collar Locator Ultrasonic (CCLU) USIT-E</b> -20 in 20			
<b>Motor Revolution Speed (RSAV) USIT-E</b> 6 c/s 7.5 <b>GR</b> 0 gAPI 150	<b>Casing Within 87.5% of Nominal Thickness</b>	<b>Casing Thickness (Between Max Internal and External Average)</b>	<b>Internal Radius Average Value (IRAV) USIT-E</b> 2 in 3	<b>Ultrasonic Azimuth (UCAZ) USIT-E</b> 360 deg 0	<b>External Radii Average (ERAV) USIT-E</b> 2 in 3	<b>Thickness Maximum Value (THMX) USIT-E</b> 0.1 in 0.6		
	<b>Thickness Minimum Value (THMN) USIT-E</b> 0.4 in 0.2	<b>Internal Radius Maximum Value (IRMX) USIT-E</b> 3 in 2	<b>External Radii Average (ERAV) USIT-E</b> 3 in 2		<b>Thickness Average Value (THAV) USIT-E</b> 0.1 in 0.6			
<b>Nominal Casing Thickness (THNO) USIT-E</b> 0.4 in 0.2	<b>External Radii Average (ERAV) USIT-E</b> 3 in 2	<b>Internal Radius Average Value (IRAV) USIT-E</b> 2 in 3	<b>External Radii Average (ERAV) USIT-E</b> 2 in 3	<b>Thickness Maximum Value (THMX) USIT-E</b> 0.1 in 0.6				





 <p>Explicit Normalization USIT - USIT Processing Flags (UFLG) USIT-E</p>	<p><b>Large Reduction from Nominal Thickness</b></p>	<p><b>Internal Radius Exceeds External Average</b></p>	 <p>Explicit Normalization USIT - Amplitude of Wave (AWBK) USIT-E</p>	<p><b>Internal Radius Minimum Value (IRMN) USIT-E</b></p> <p>2 in 3</p>	 <p>Explicit Normalization USIT - Internal Radii Normalized (IRBK) USIT-E (in)</p>	 <p>Explicit Normalization USIT - Casing Thickness Normalized (THBK) USIT-E (in)</p>	<p><b>Thickness Minimum Value (THMN) USIT-E</b></p> <p>0.1 in 0.6</p>
<p>Casing Collar Locator Ultrasonic (CCLU) USIT-E</p> <p>-20 in 20</p>	<p>Thickness Minimum Value (THMN) USIT-E</p> <p>0.4 in 0.2</p>	<p>Internal Radius Maximum Value (IRMX) USIT-E</p> <p>3 in 2</p>	<p><b>Ultrasonic Azimuth (UCAZ) USIT-E</b></p> <p>360 deg 0</p>	<p><b>Internal Radius Averaged Value (IRAV) USIT-E</b></p> <p>2 in 3</p>	<p><b>Thickness Maximum Value (THMX) USIT-E</b></p> <p>0.1 in 0.6</p>		
<p><b>Motor Revolution Speed (RSAV) USIT-E</b></p> <p>6 c/s 7.5</p>	<p><b>Nominal Casing Thickness (THNO) USIT-E</b></p> <p>0.4 in 0.2</p>	<p>External Radii Average (ERAV) USIT-E</p> <p>3 in 2</p>	<p><b>External Radii Average (ERAV) USIT-E</b></p> <p>2 in 3</p>				
<p><b>GR</b></p> <p>0 gAPI 150</p>							

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Description: USI Corrosion    Format: Log ( IBC Casing Integrity HiRes 5.5IN )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth  
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## Channel Processing Parameters

### One: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BS	Bit Size	WLSESSION	7.875	in
CDEN	Cement Density	USIT-E	0	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
CYSTLGR	Casing Yield Strength - Zoned along logger depths	WLSESSION	80000	psi
DFD	Drilling Fluid Density	Borehole	8.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	10	lbm/gal
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	15.96	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	FreePipe Norm.	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.37	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.29	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	0	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	1.54	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	36	dB
EMXV	EMEX Voltage	USIT-E	80	V
HRES	Horizontal Resolution	USIT-E	10 deg	
IBC_ACQTYPE	IBC Acquisition type	USIT-E	DVR 1/4 and 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 1.5 in	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	1.5 in	

XYZ

Company:Occidental Petroleum INC Well:Frank 6-8

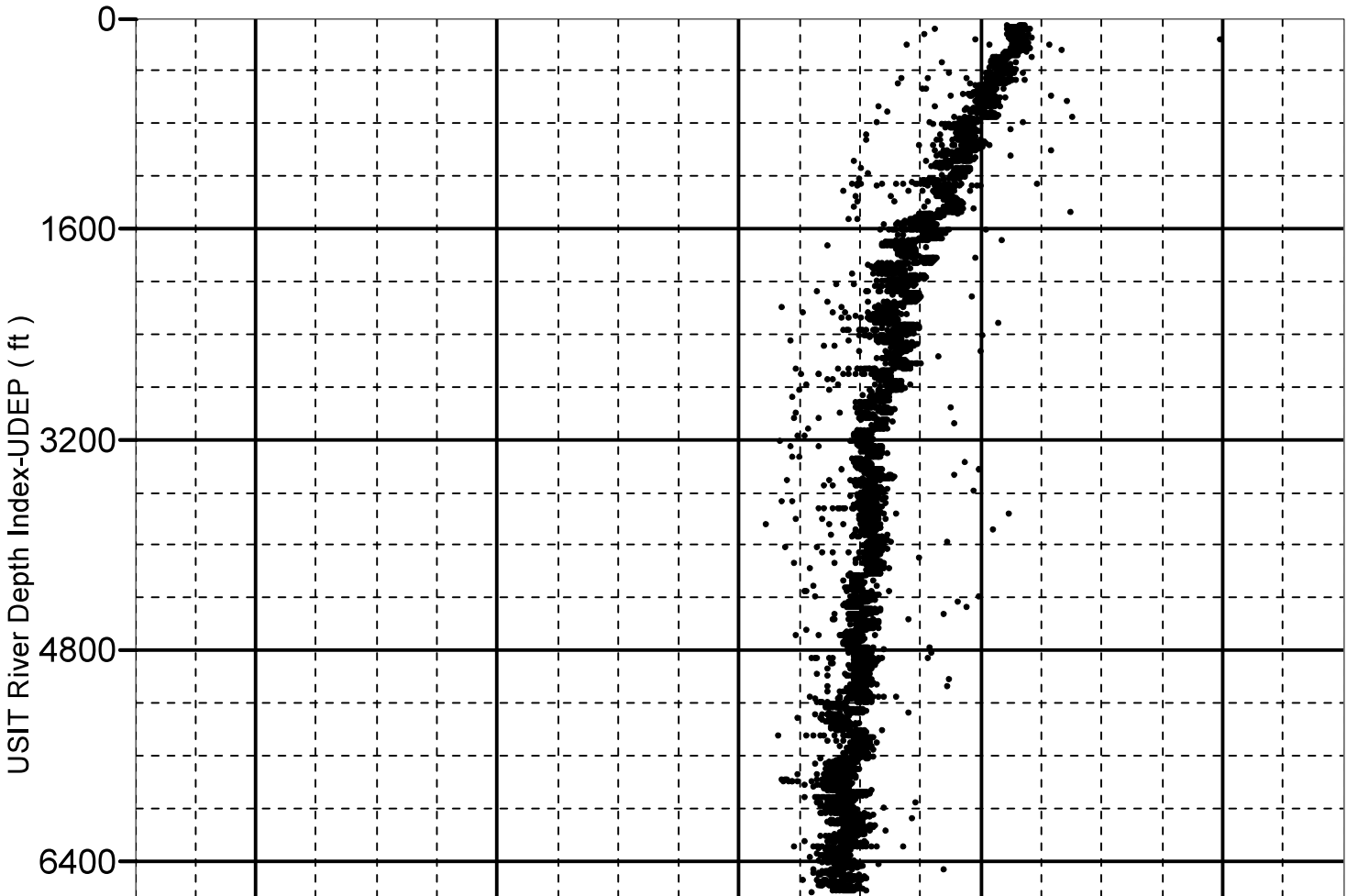
One: Log[5]:Up:S005

# Fluid Acoustic Slowness vs Depth

## 2D Cross Plot

Index Range: From 6636.50 to 60.00 ft

● CFVL-UDEP



8000

160

180

200

220

240

Memorized Fluid Acoustic...-CFVL ( us/ft )

XYZ

Company:Occidental Petroleum INC Well:Frank 6-8

One: Log[5]:Up:S005

# Acoustic Impedance of Mud vs Depth

## 2D Cross Plot

Index Range: From 6636.50 to 60.00 ft

● CZMD-UDEP

0

1600

3200

4800

6400

8000

USIT River Depth Index-UDEP ( ft )

0.0

0.6

1.2

1.8

2.4

3.0

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

Company: Occidental Petroleum INC

**Schlumberger**

Well: Frank 6-8

Field: Wattenberg

County: Weld

State: Colorado

Isolation Scanner

Casing Integrity

Gamma Ray - CCL