Schlumberger

Company: Great Western Operating Company LLC

Well: Postle IC 09-059HNX

Field: Wattenberg

County: Weld State: Colorado

UltraSonic Summary Print

County: Weld
Field: Wattenberg
Location: SWNW Sec. 11, T3N, R68W
Well: Postle IC 09-059HNX
Company: Great Western Operating Company LLC

Location:				
SWNW Sec. 11, T3N, R68W		Elev.: K.B.	4997.00	ft
SHL: 1455' FNL & 521' FWL		G.L.	4977.00	ft
Lat/Long: 40.243978 / -104.977917		D.F.	4997.00	ft
Permanent Datum:	Ground Level	Elev.:	4977.00	f
Log Measured From:	Kelly Bushing	20.00 ft	above Perm.Datum	
Drilling Measured From:	Kelly Bushing			

API Serial No.	Section:	Township:	Range:
05-123-47374	11	3N	68W

Logging Date		12-Jun-2020		
Run Number		ONE		
Depth Driller		16200.00 ft		
Schlumberger Depth		16200.00 ft		
Bottom Log Interval		7171.00 ft		
Top Log Interval		76.00 ft		
Casing Fluid Type		Brine		
Salinity				
Density		8.4 lbm/gal		
Fluid Level		8.00 ft		
BIT/CASING/TUBING STRING				
Bit Size		8.50 in		
From		1552.00 ft		
To		16200.00 ft		
Casing/Tubing Size		5.5 in		
Weight		20 lbm/ft		
Grade		P110		
From		0.00 ft		
To		16200.00 ft		
Max Recorded Temperatures		186.39 degF		
Logger on Bottom	Time	12-Jun-2020	12:25:00	
Unit Number	Location:	9108	Fort Morgan, CO	
Recorded By		A.Blochowicz		
Witnessed By		Davy Pozas		

Disclaimer

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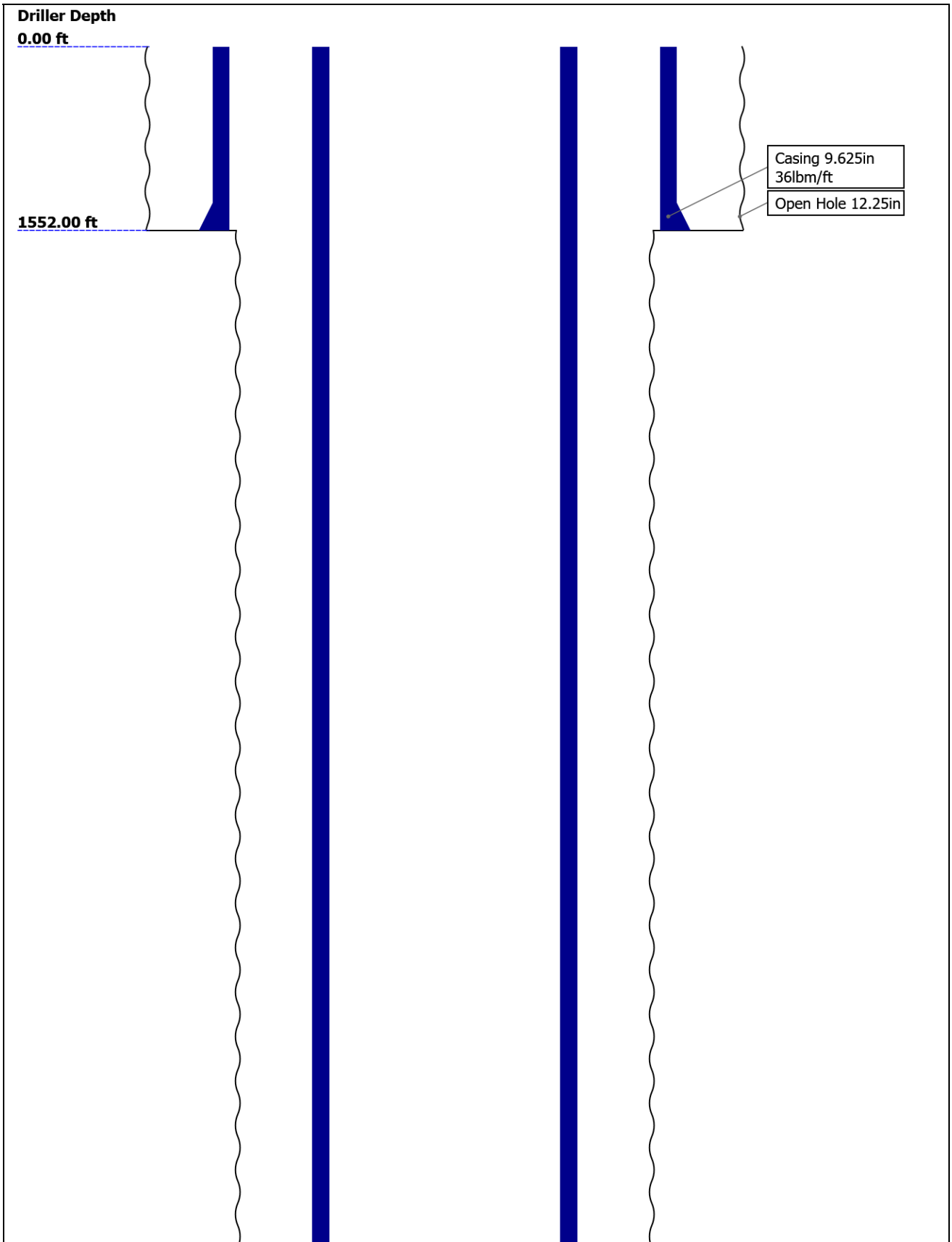
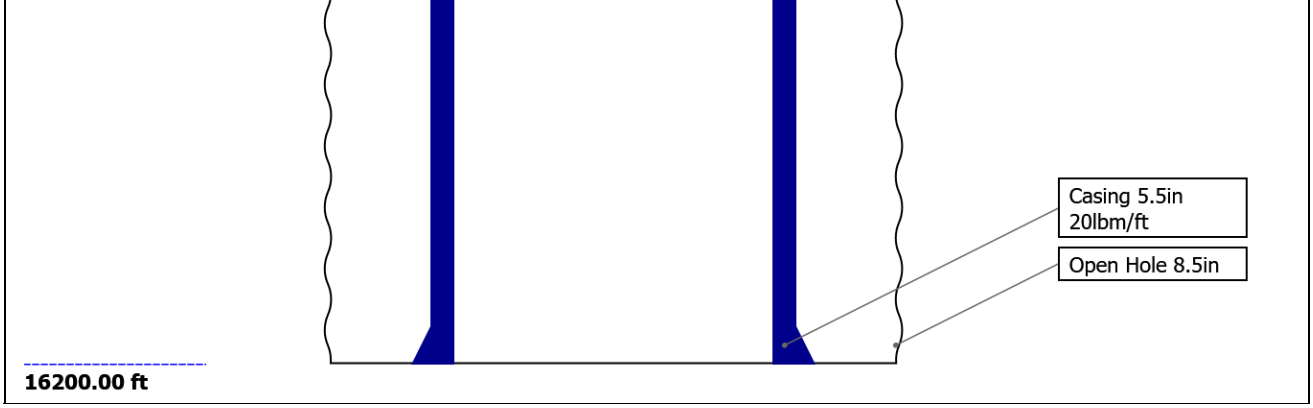
Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	12.25	8.5				
Top Driller (ft)	0	1552				
Top Logger (ft)	0	1552				
Bottom Driller (ft)	1552	16200				
Bottom Logger (ft)	1552	16200				
Casing						
Size (in)	9.625	5.5				
Weight (lbm/ft)	36	20				
Inner Diameter (in)	8.921	4.778				
Grade	J55	P110				
Top Driller (ft)	0	0				
Top Logger (ft)	0	0				
Bottom Driller (ft)	1552	16200				
Bottom Logger (ft)	1552	7171				

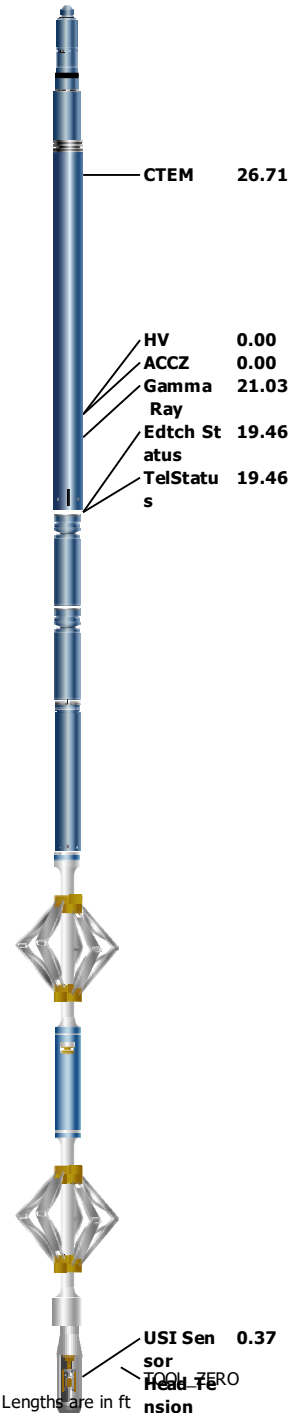
Operational Run Summary

Parameter (unit)	ONE					
Date Log Started	12-Jun-2020					
Time Log Started	11:49:36					
Date Log Finished	12-Jun-2020					
Time Log Finished	13:00:52					
Top Log Interval (ft)	76.00					
Bottom Log Interval (ft)	7171.00					
Total Depth (ft)						
Max Hole Deviation (deg)	0.00					
Azimuth of Max Deviation (deg)	0.00					
Bit Size (in)	8.500					
Logging Unit Number	9108					
Logging Unit Location	Fort Morgan, CO					
Recorded By	A.Blochowicz					

Witnessed By	Davy Pozas					
Service Order Number	EJV5-00015					

Remarks and Equipment Summary

ONE: Toolstring



Lengths are in ft
Maximum Outer Diameter = 3.560 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

ONE: Remarks

ONE: Remarks
Thank you for choosing Schlumberger!
Tool string run as per tool sketch and client logging program.
5" Gemcos and in-line centralizers with small hole kit used for centralization.
All passes run under 0 PSI.
Tail Cement: 14.5 ppg Spacer: 12.5 ppg
Logs correlated to Short Joint at 6508.69 ft per client request.

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			
Length	24000.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane		

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		
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	7172.75	34.49

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=1.14
DFD=1.01g/cm3(8.40lbm/gal)

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

ONE

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	34.49 ft	7172.75 ft	12-Jun-2020 12:25:02 PM	12-Jun-2020 12:59:43 PM	ON	2.97 ft	Yes

All depths are referenced to toolstring zero

Log

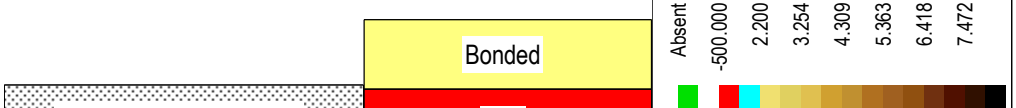
Company:Great Western Operating Company LLC Well:Postle IC 09-059HNX

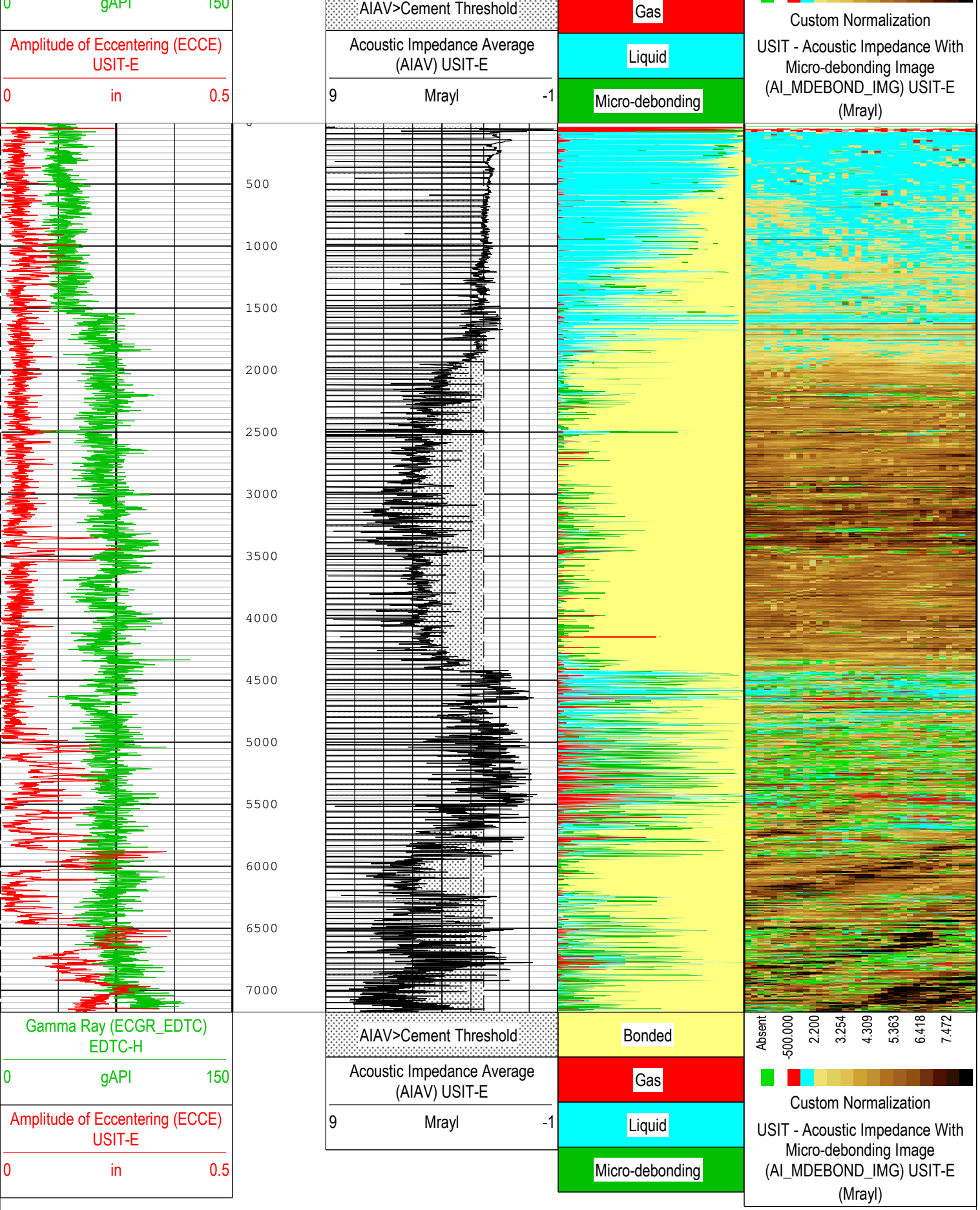
ONE: Log[4]:Up:S003

Description: USI Cement Format: Log (USI Lvl 1 Compressed) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 12-Jun-2020 14:02:25

TIME_1900 - Time Marked every 60.00 (s)

Gamma Ray (ECGR_EDTC)
EDTC-H





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Description: USI Cement Format: Log (USI Lvl 1 Compressed) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 12-Jun-2020 14:02:25

Software Version

Acquisition System	Version
Maxwell 2020.0	10.0.202864.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	34.49 ft	7172.75 ft	12-Jun-2020 12:25:02 PM	12-Jun-2020 12:59:43 PM	ON	2.97 ft	Yes

All depths are referenced to toolstring zero

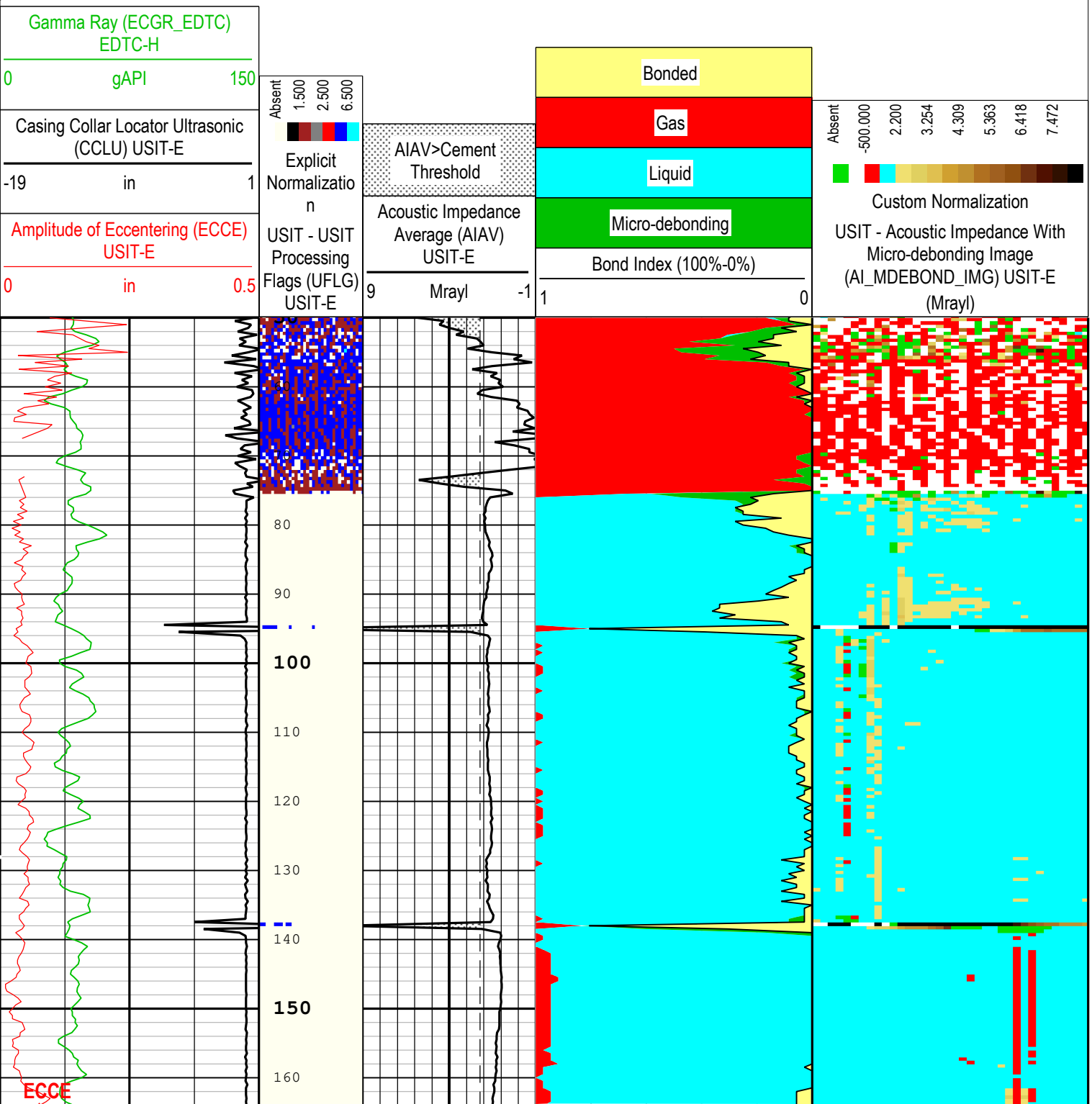
Log

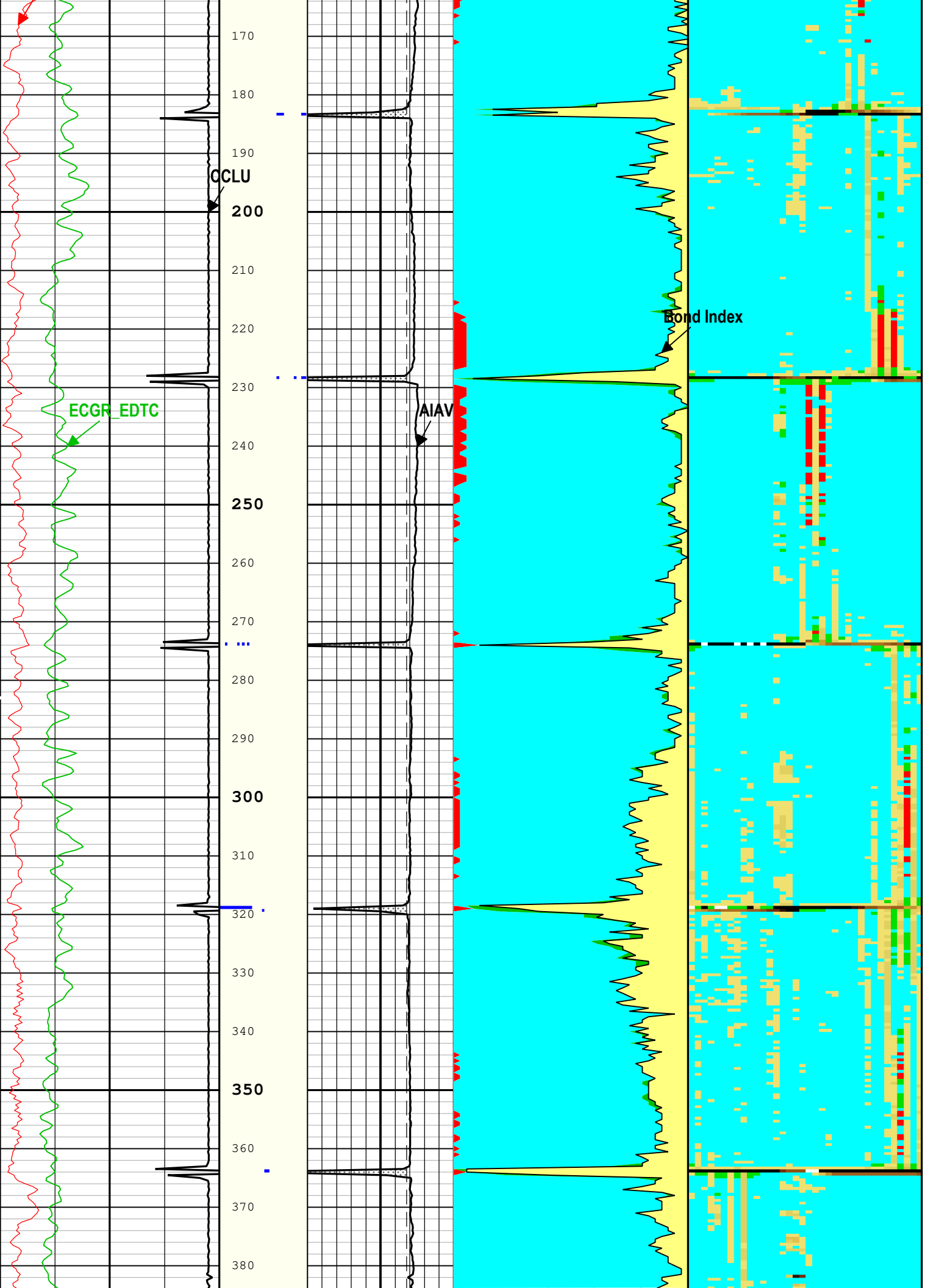
Company:Great Western Operating Company LLC Well:Postle IC 09-059HNX

ONE: Log[4]:Up:S003

Description: USI Cement Format: Log (USI Lvl 1) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 12-Jun-2020 14:02:37

TIME_1900 - Time Marked every 60.00 (s)

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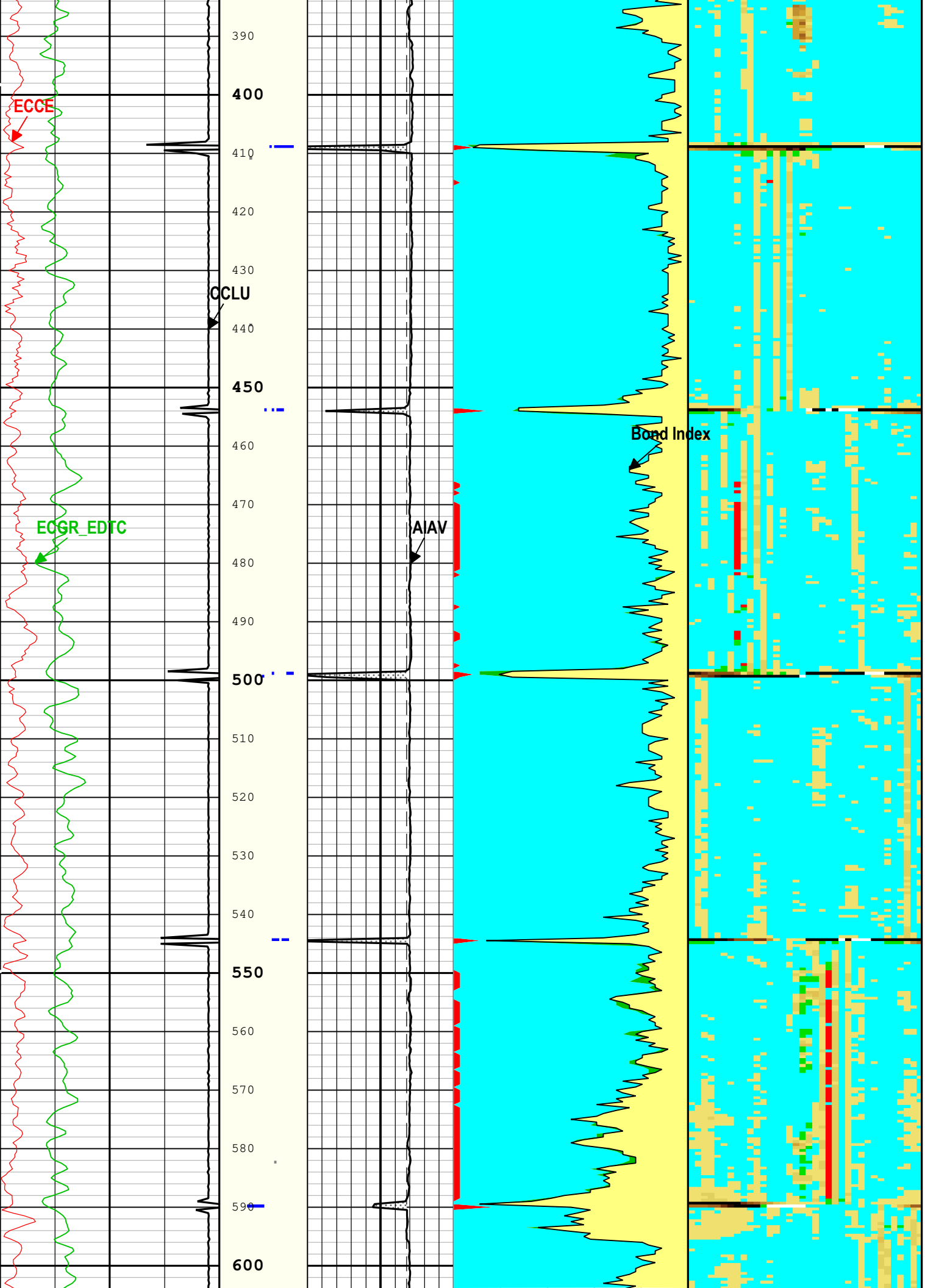
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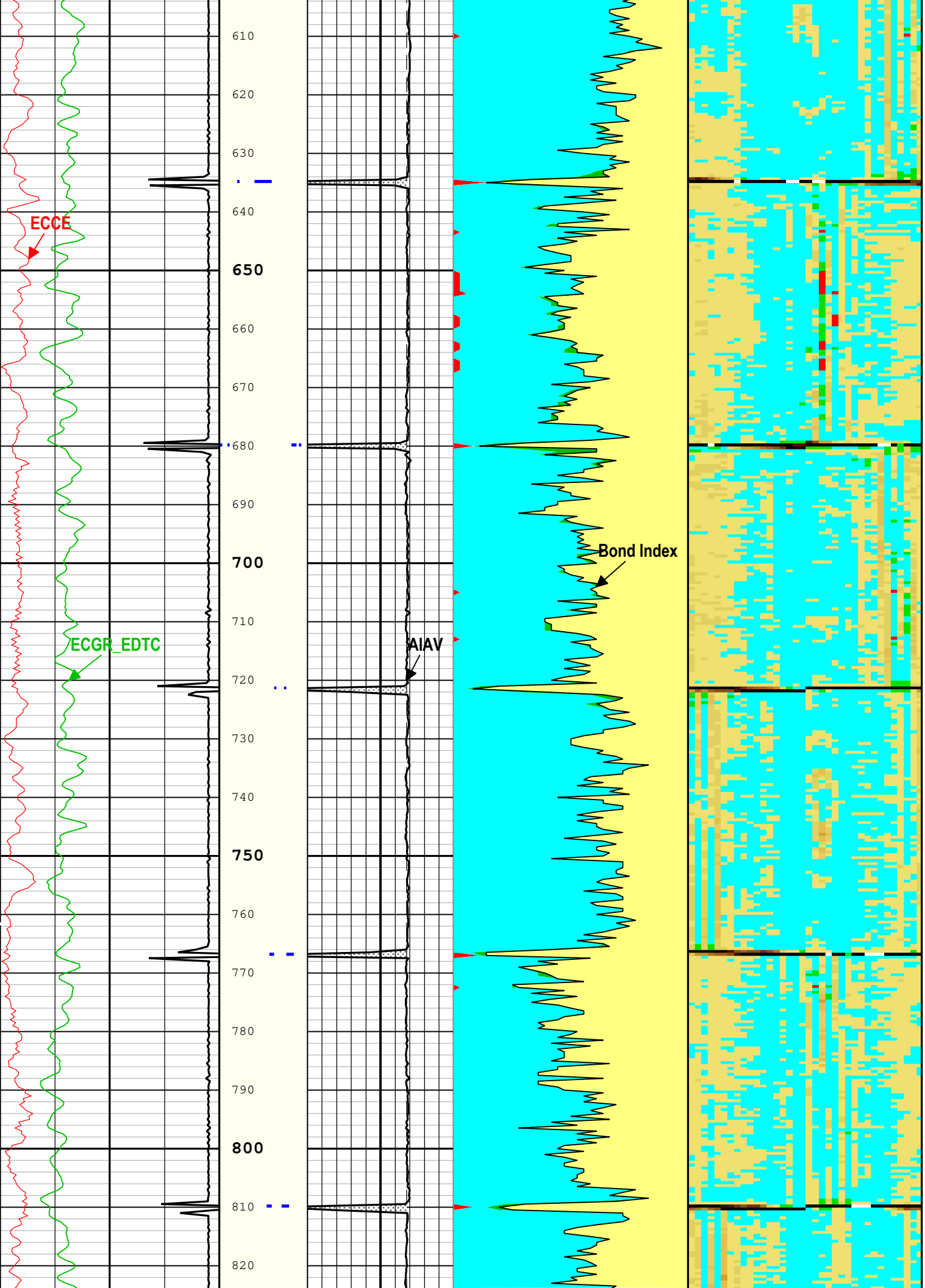
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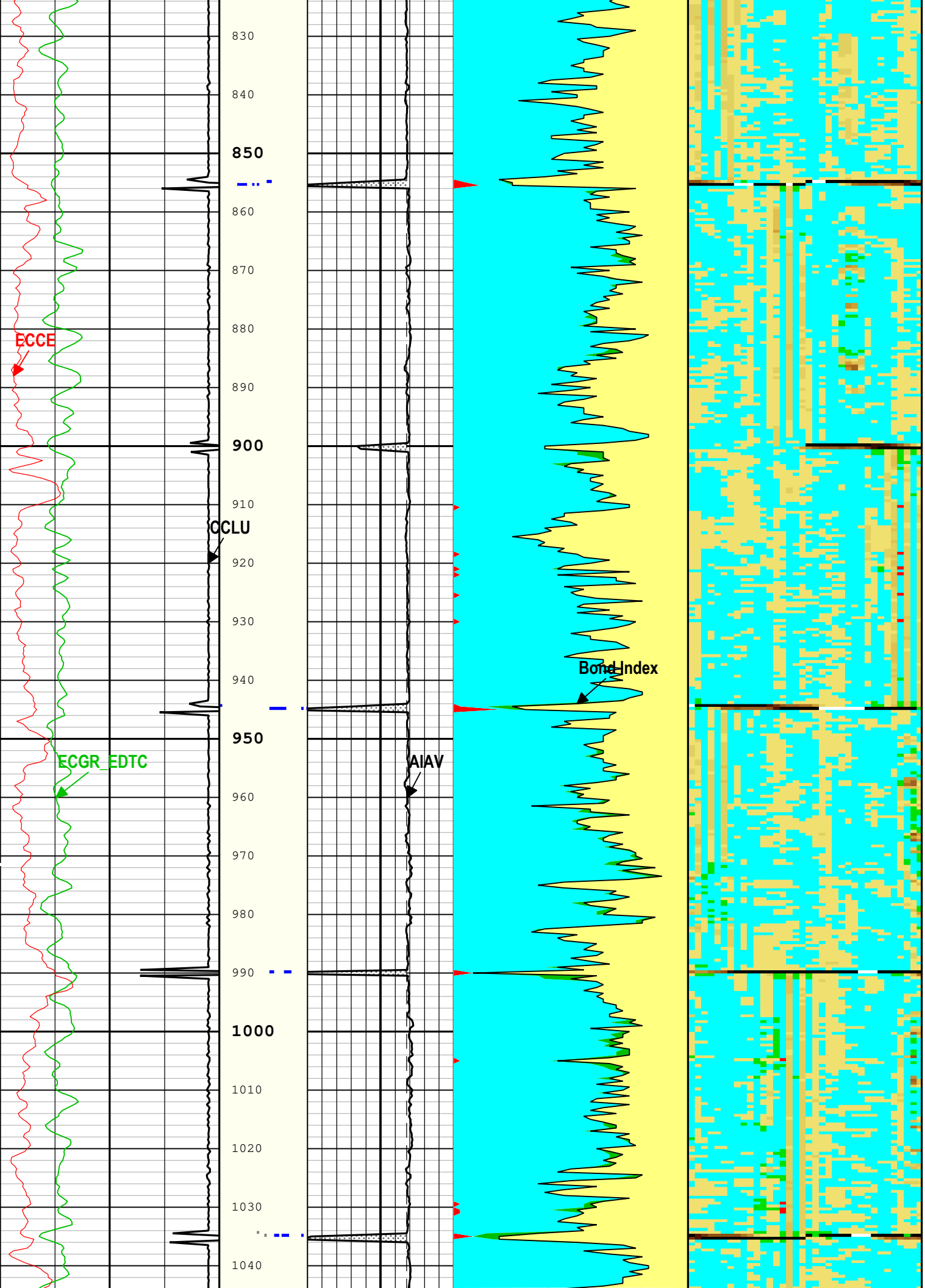
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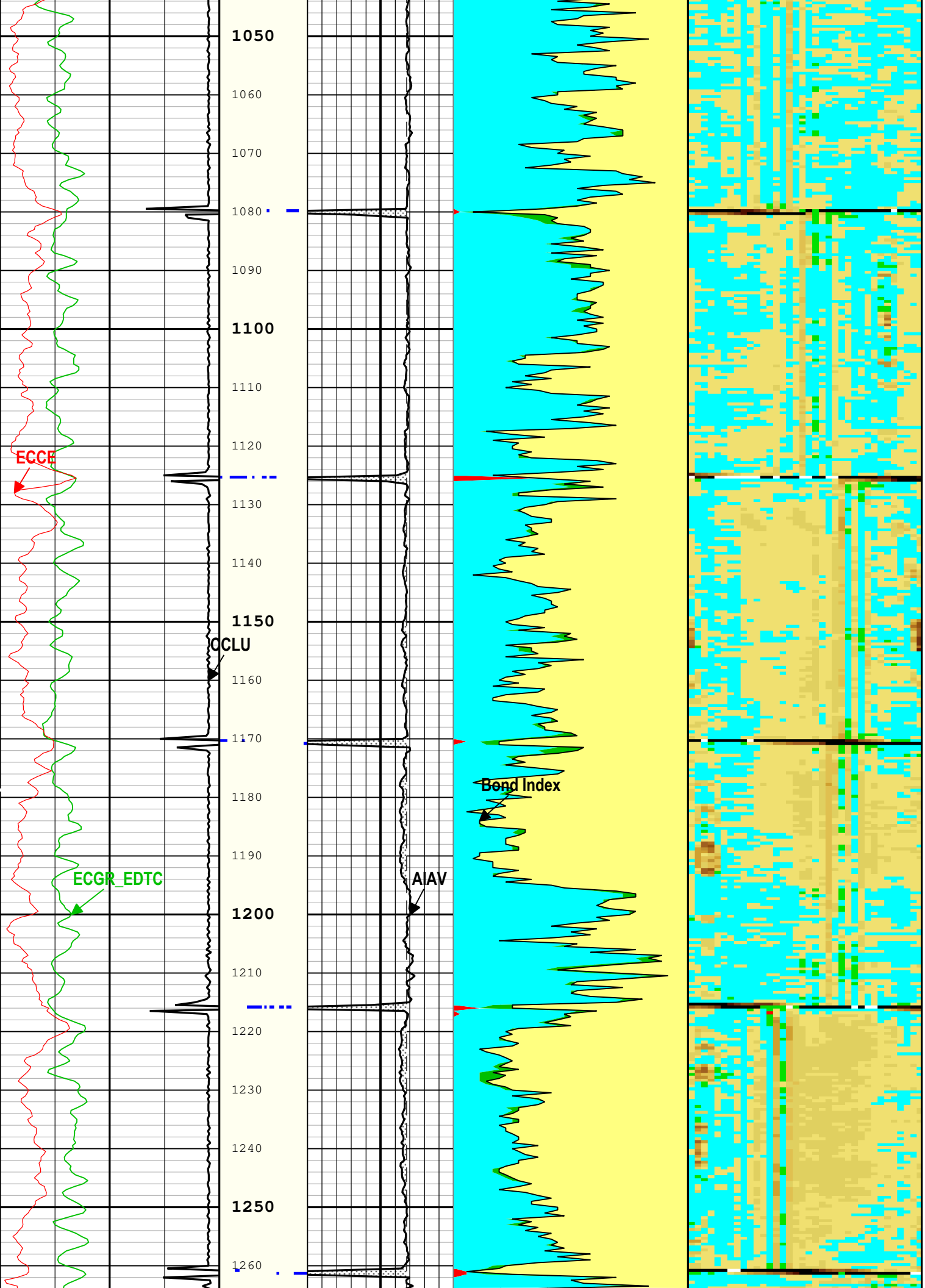
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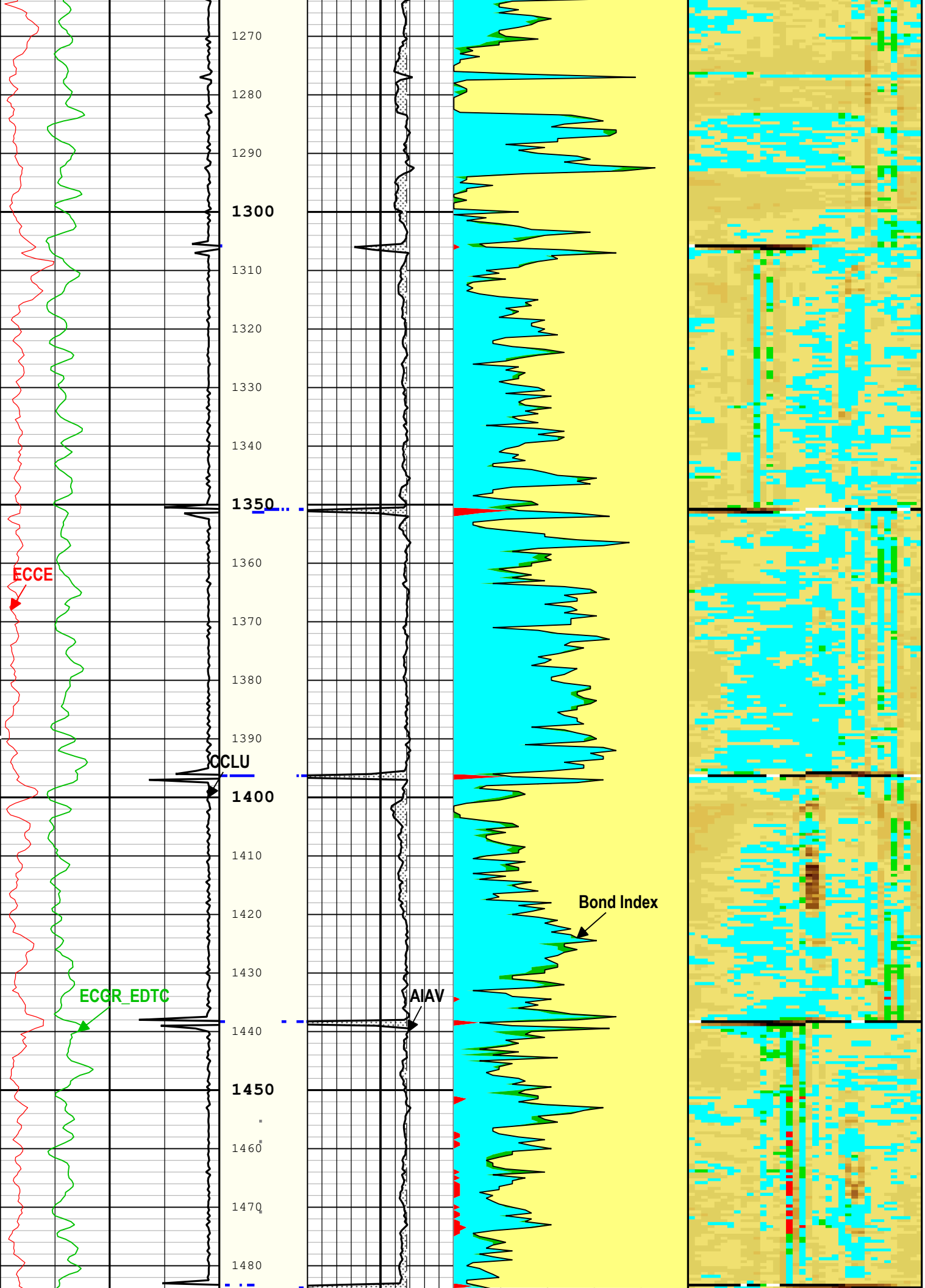
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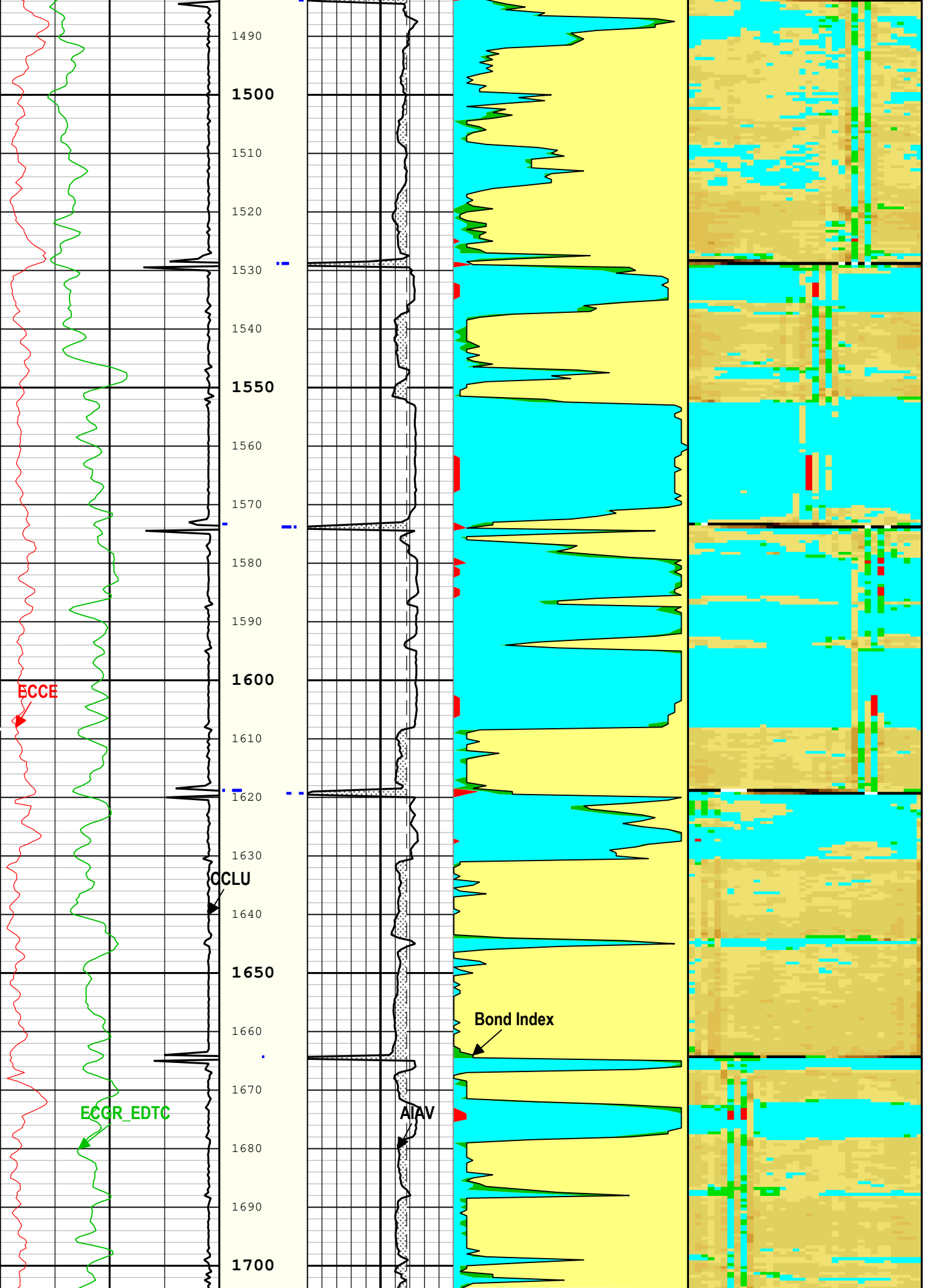
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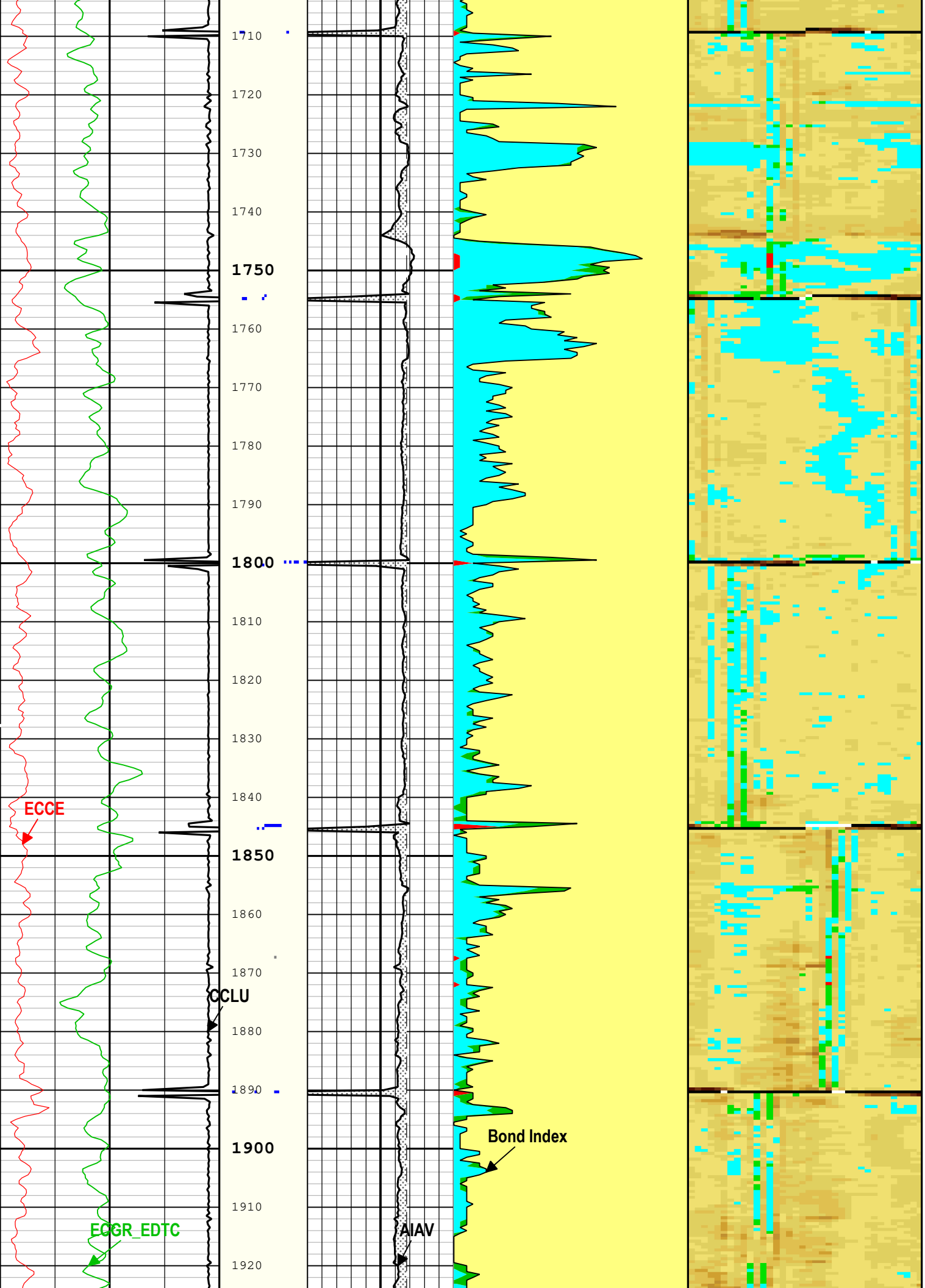
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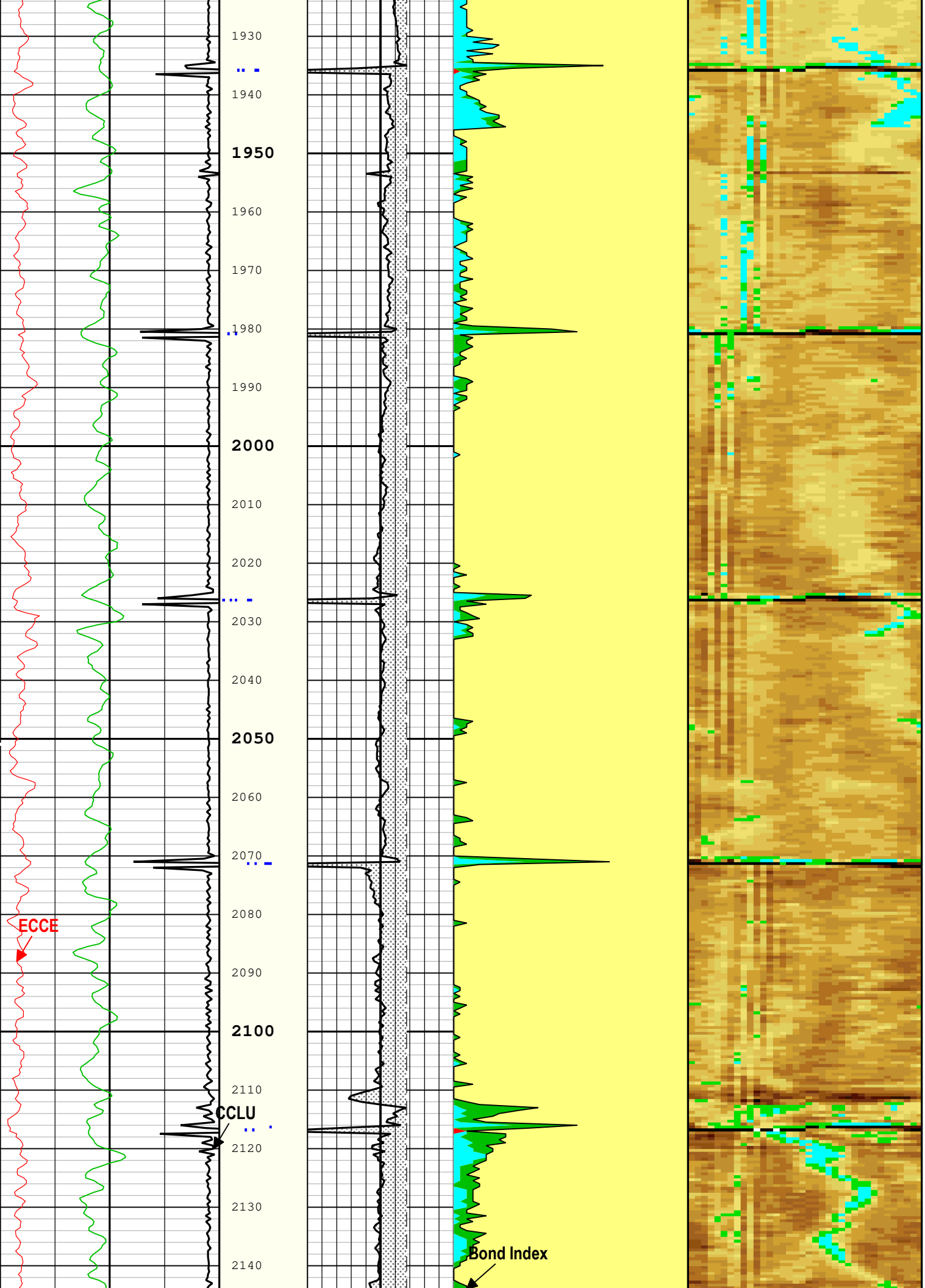
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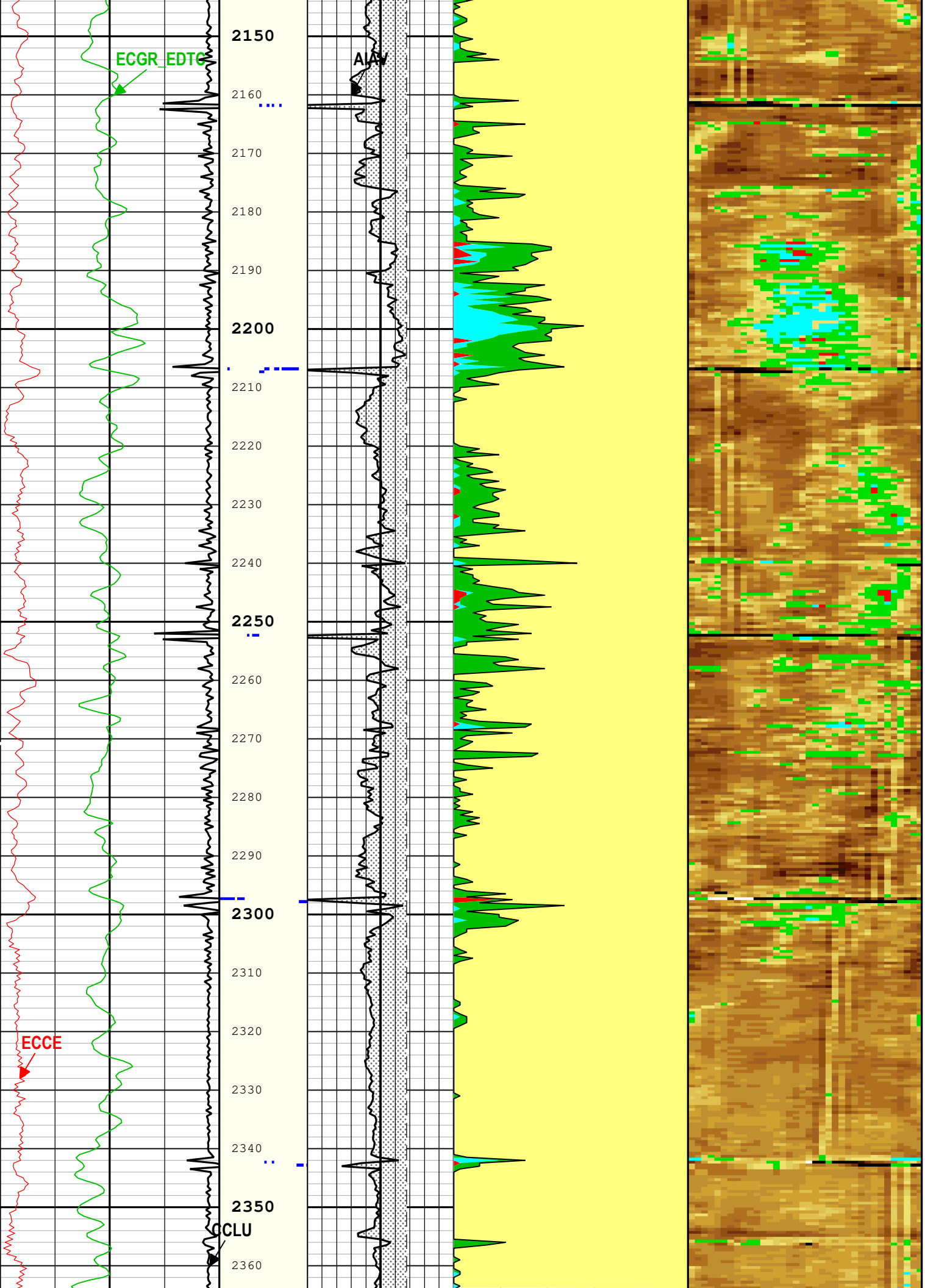
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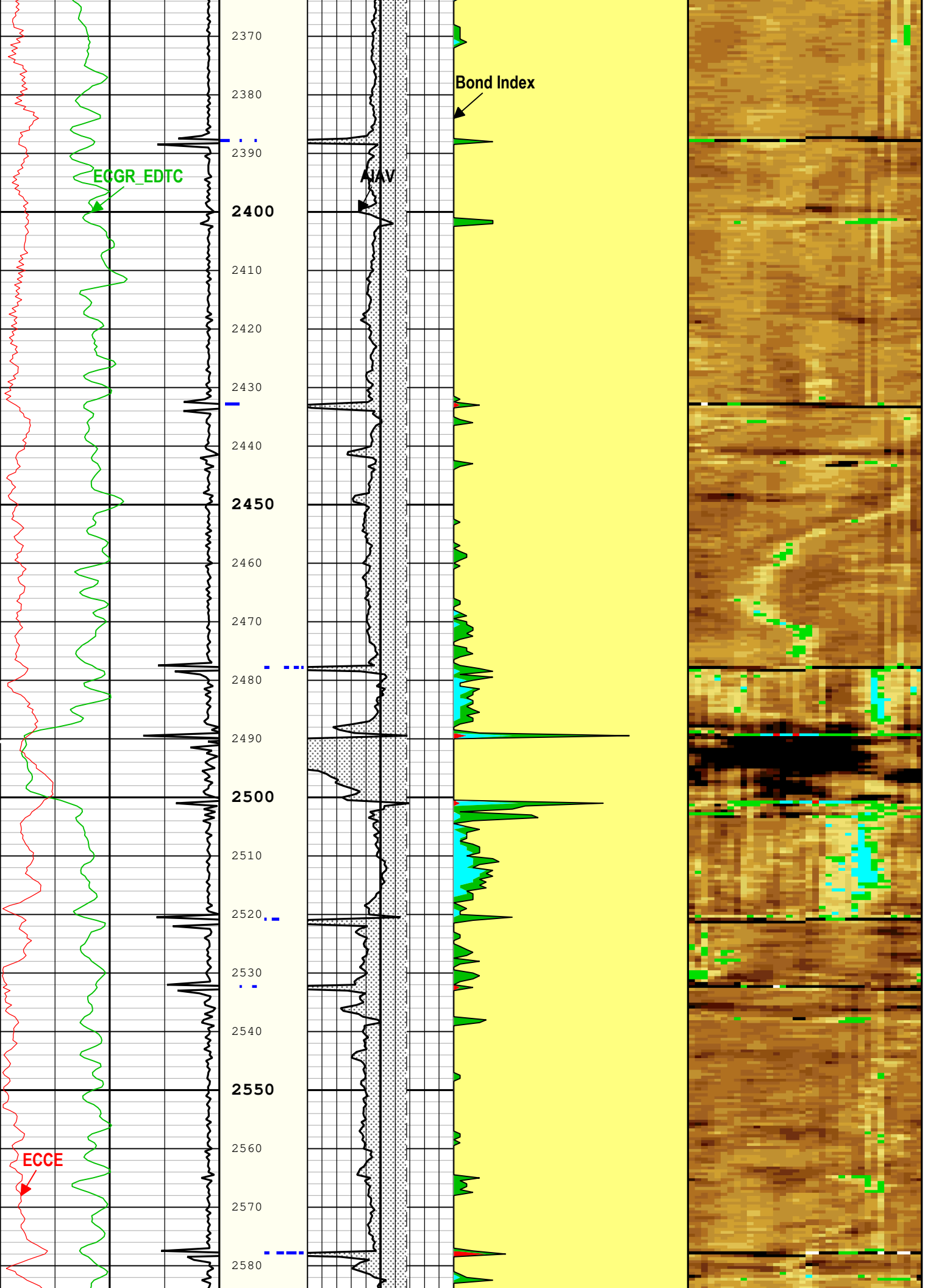
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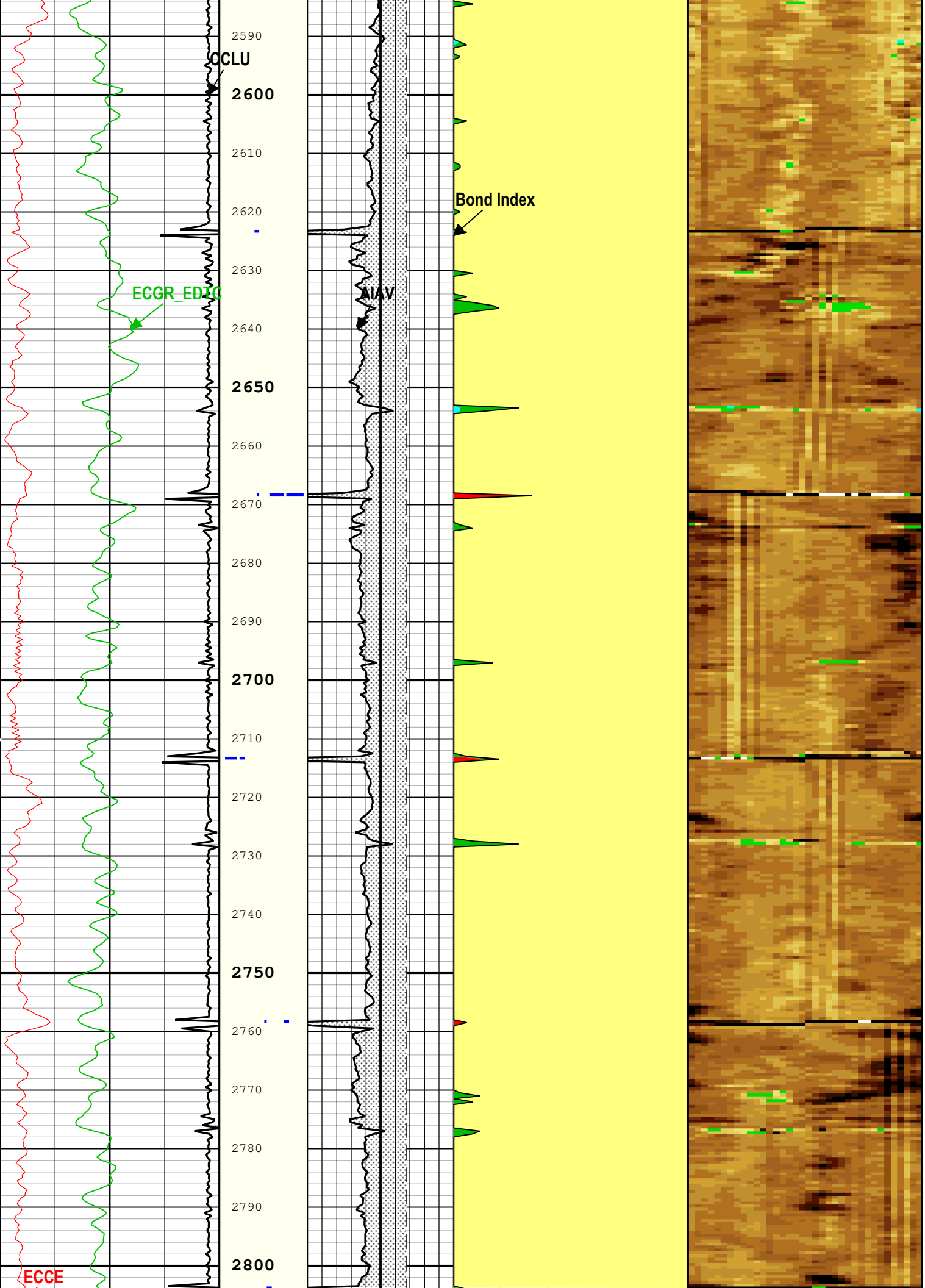
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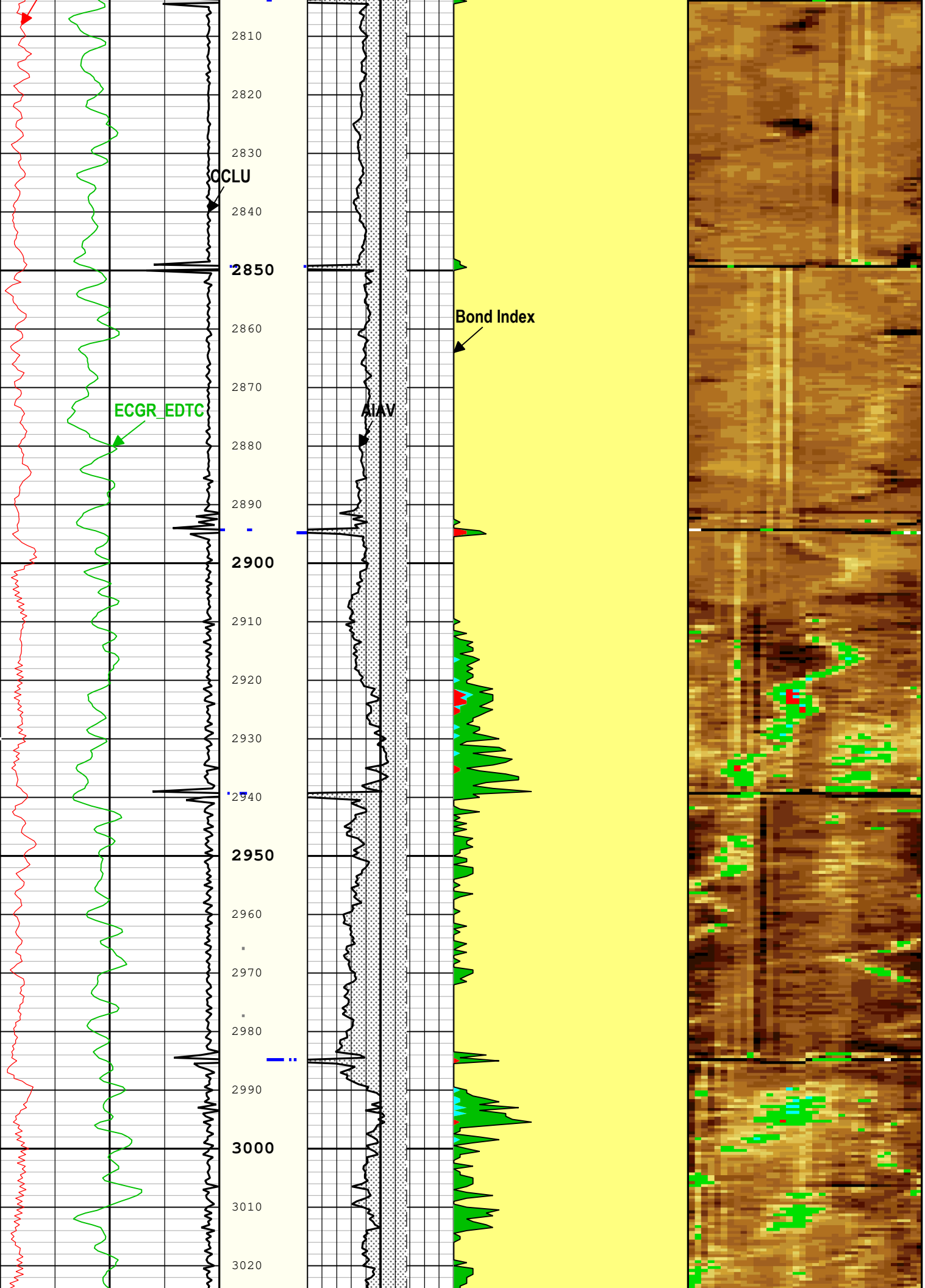
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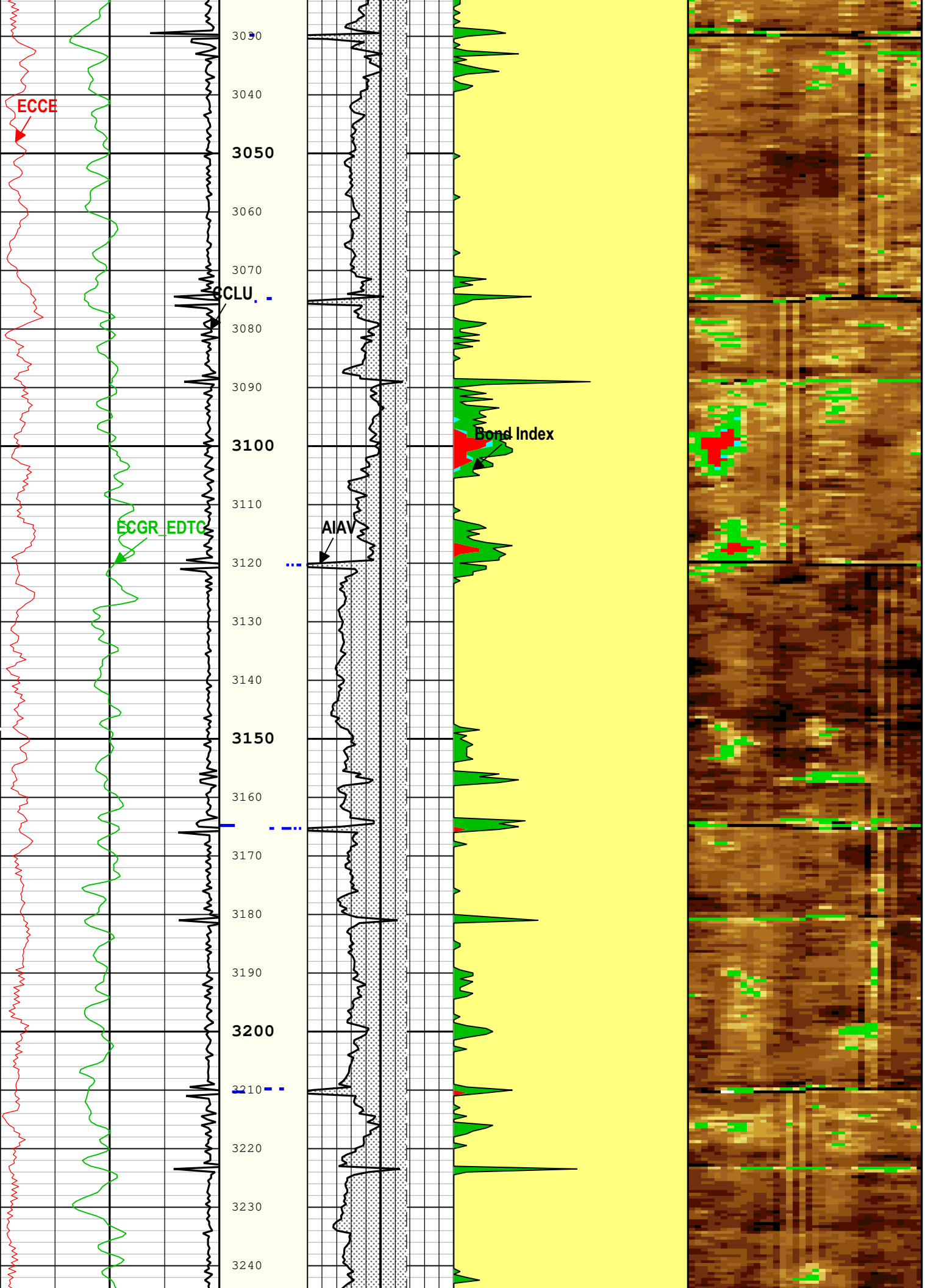
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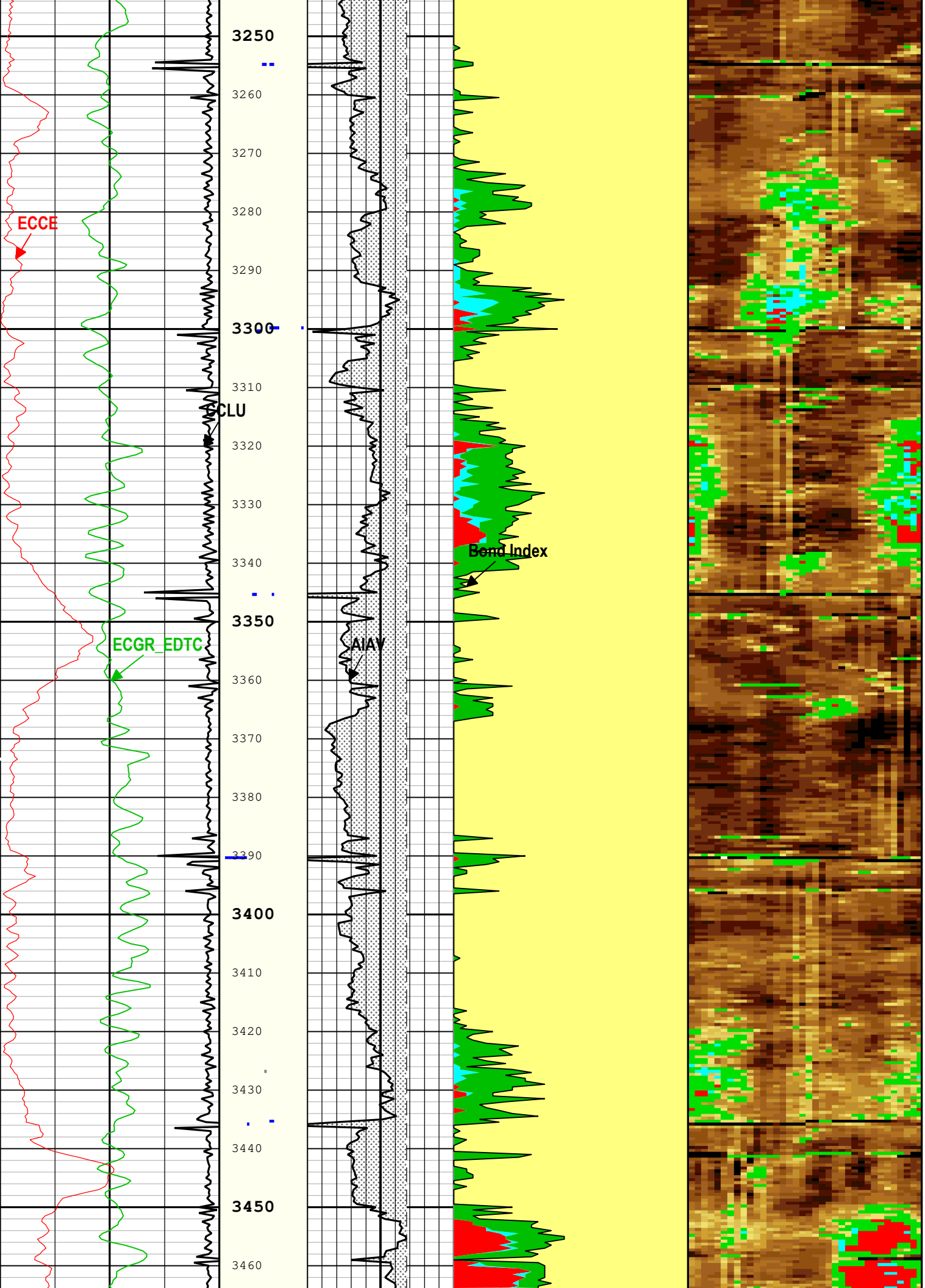
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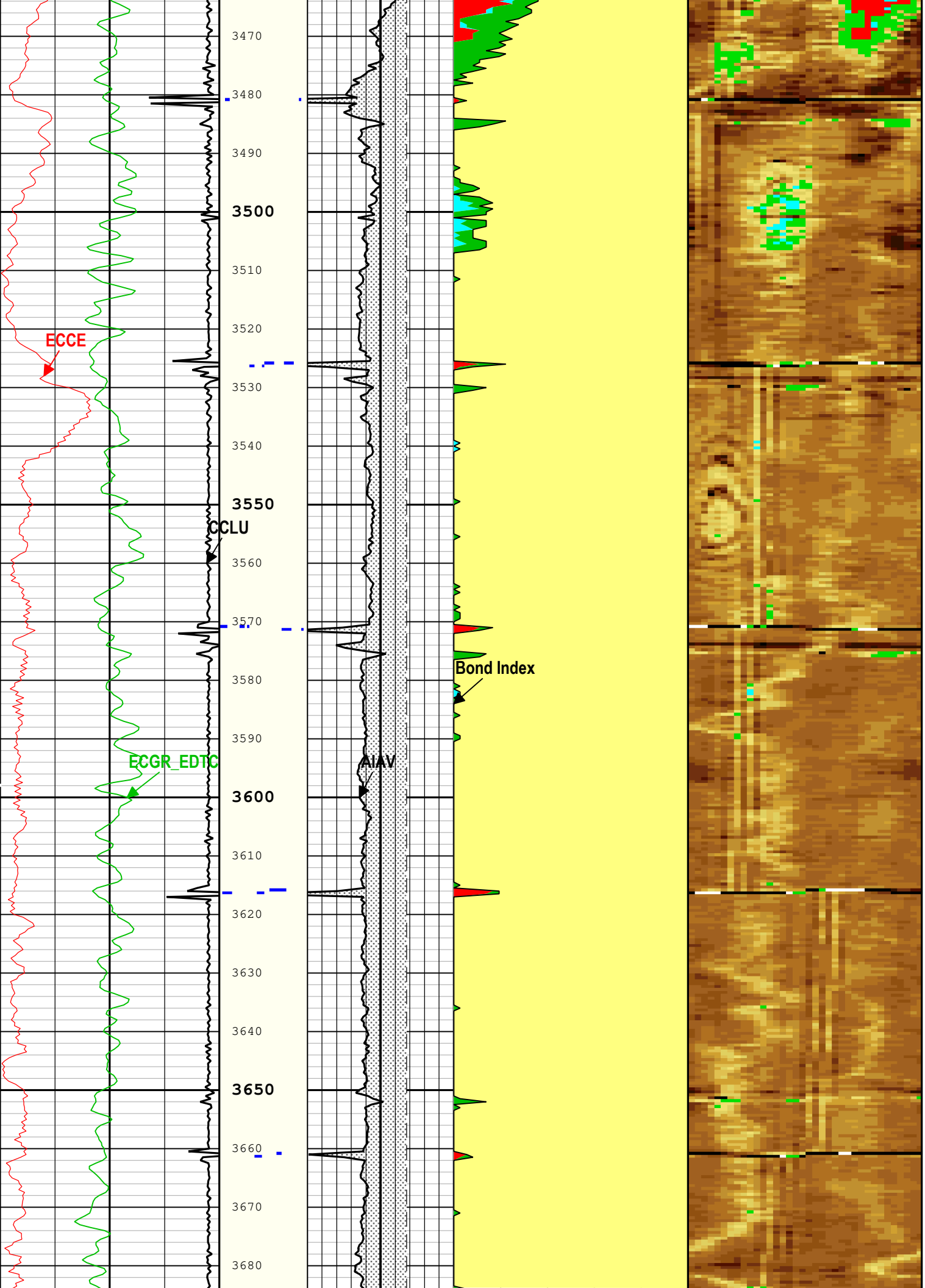
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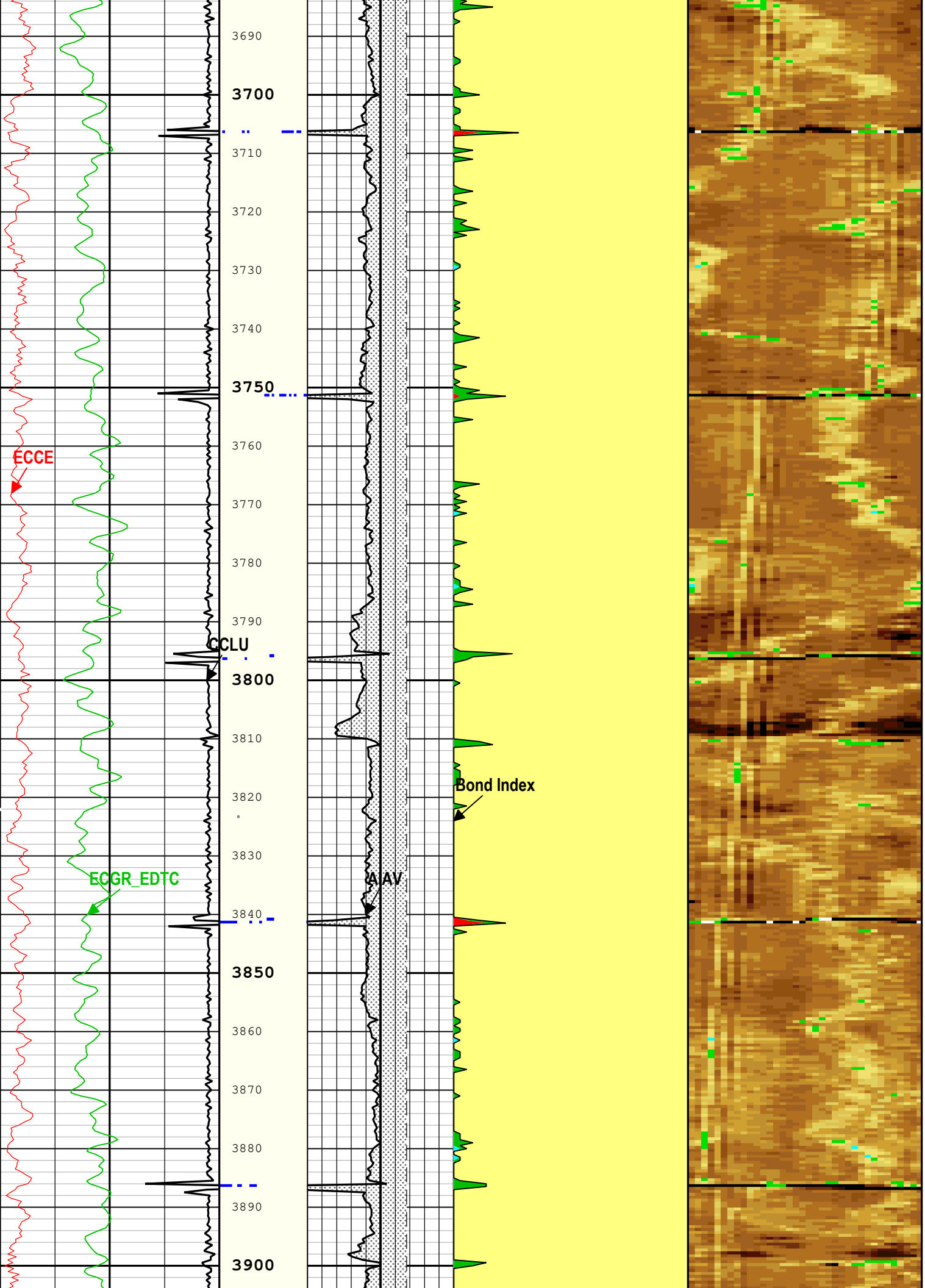
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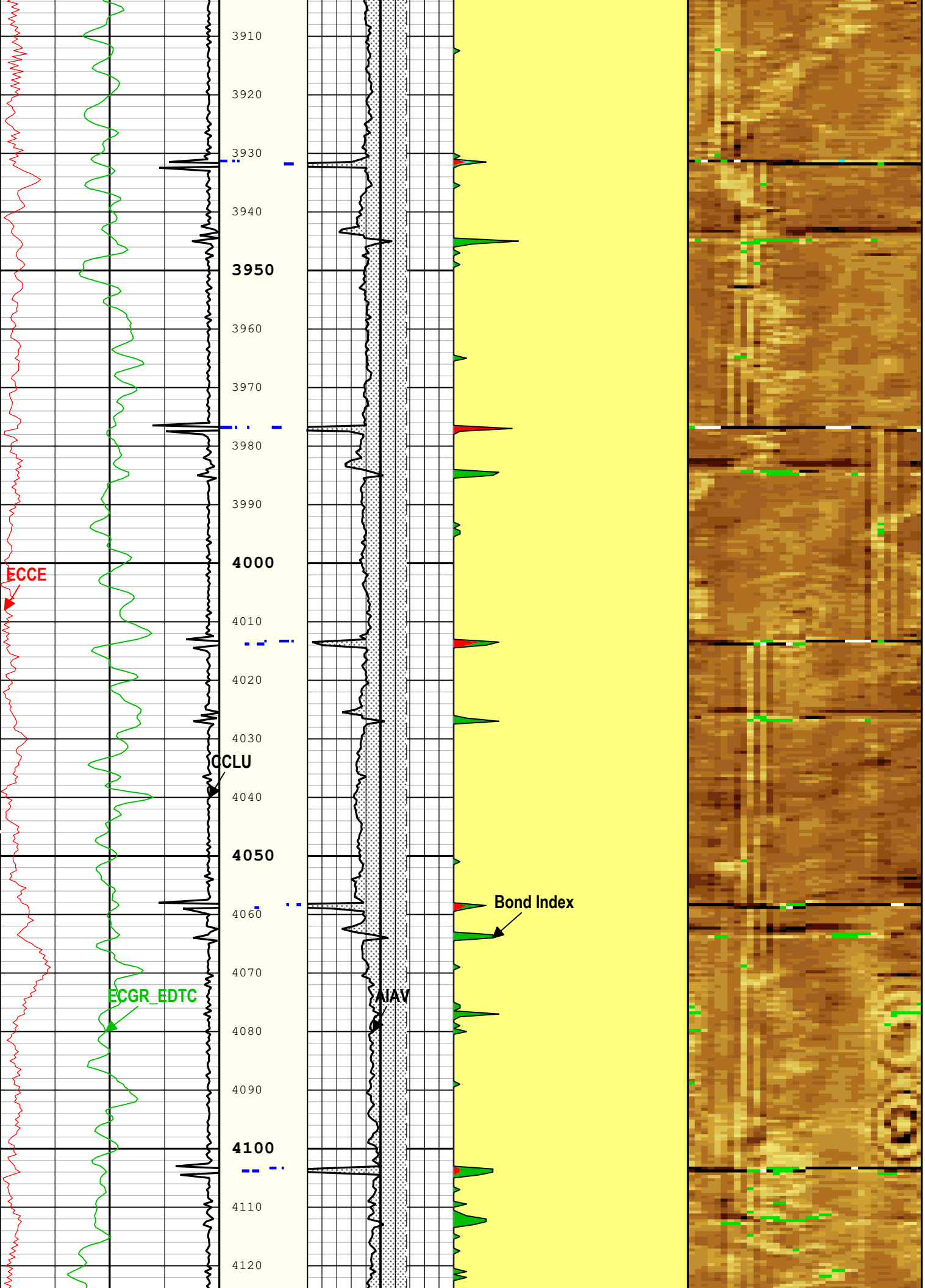
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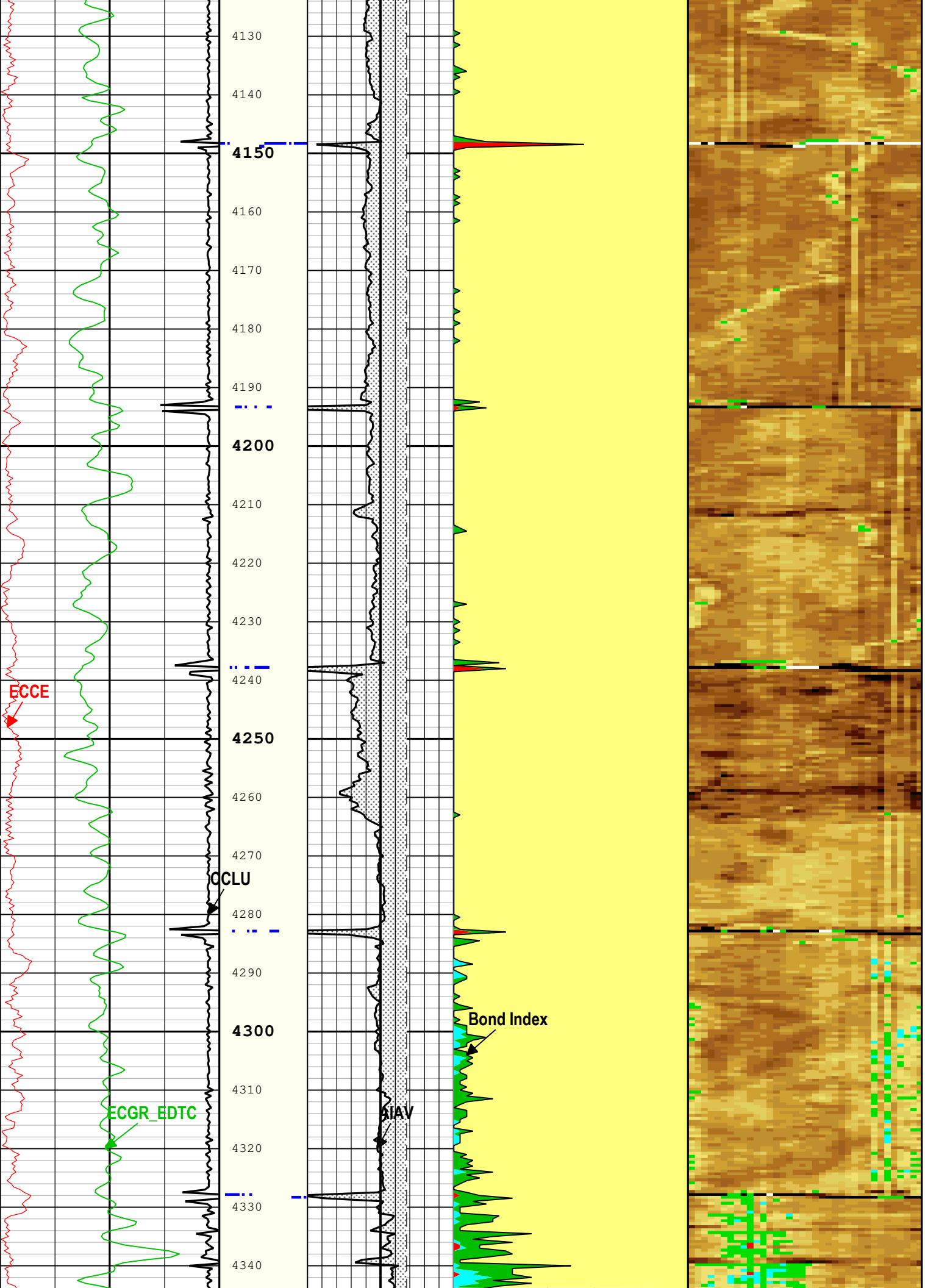
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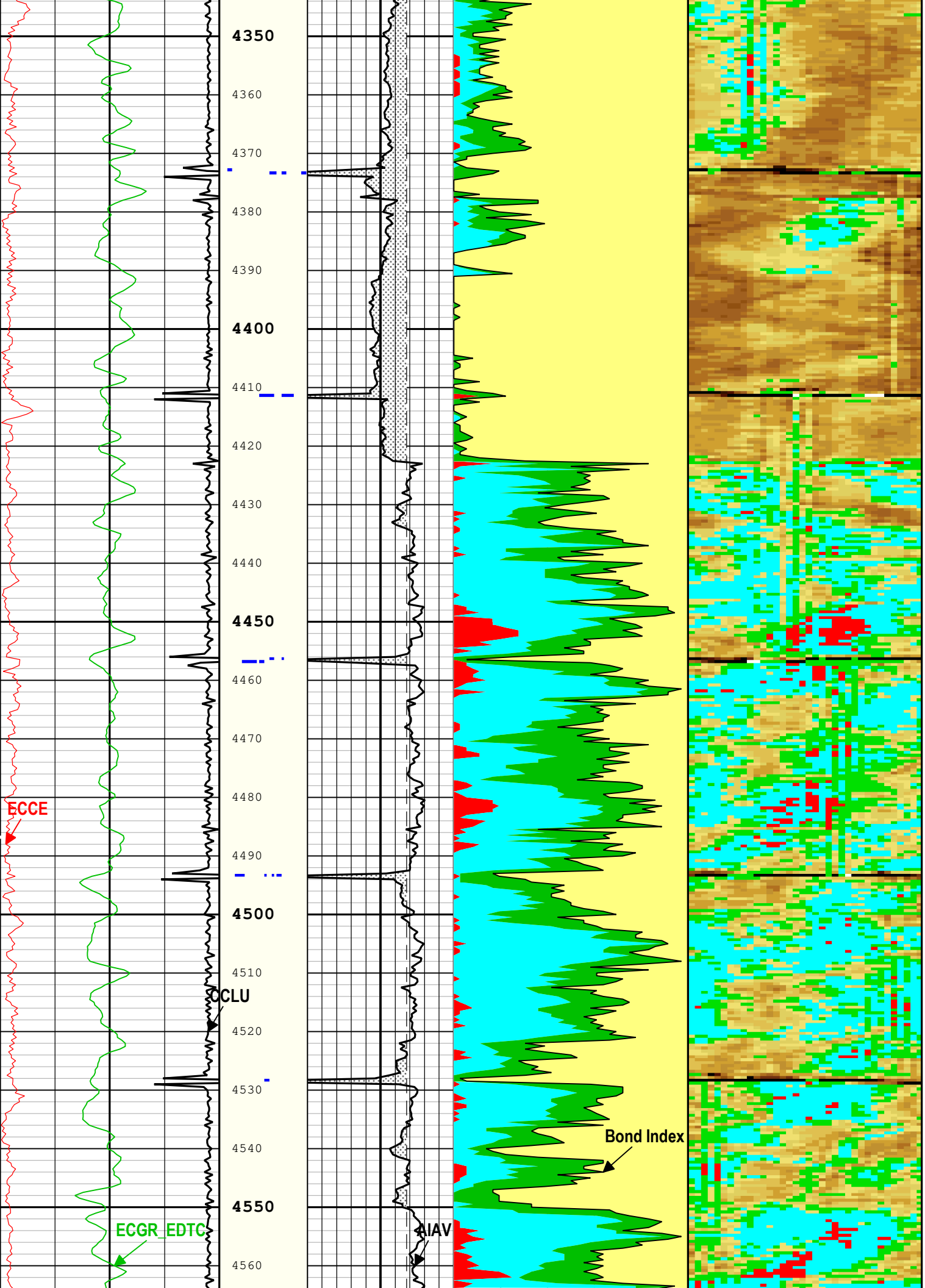
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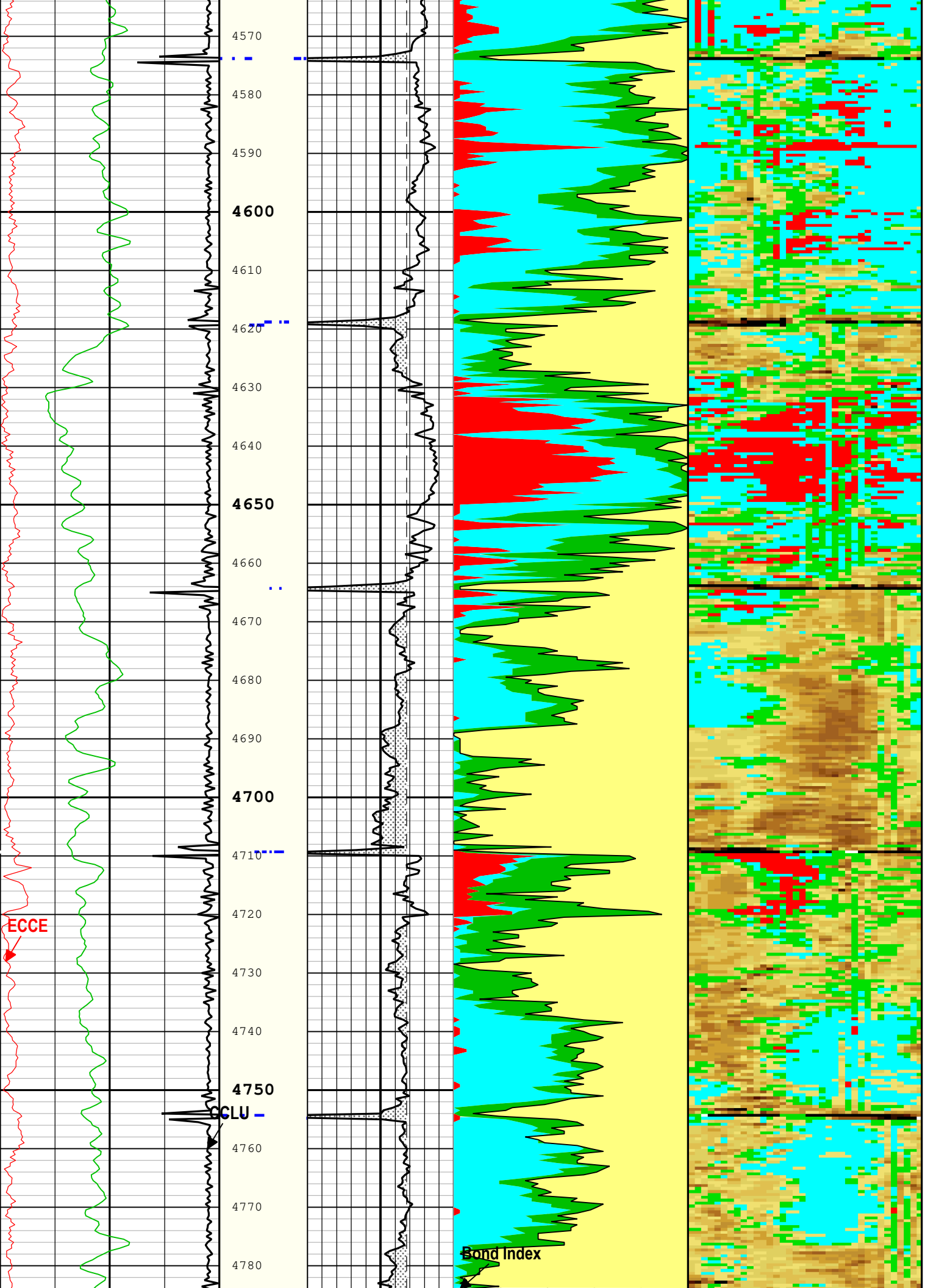
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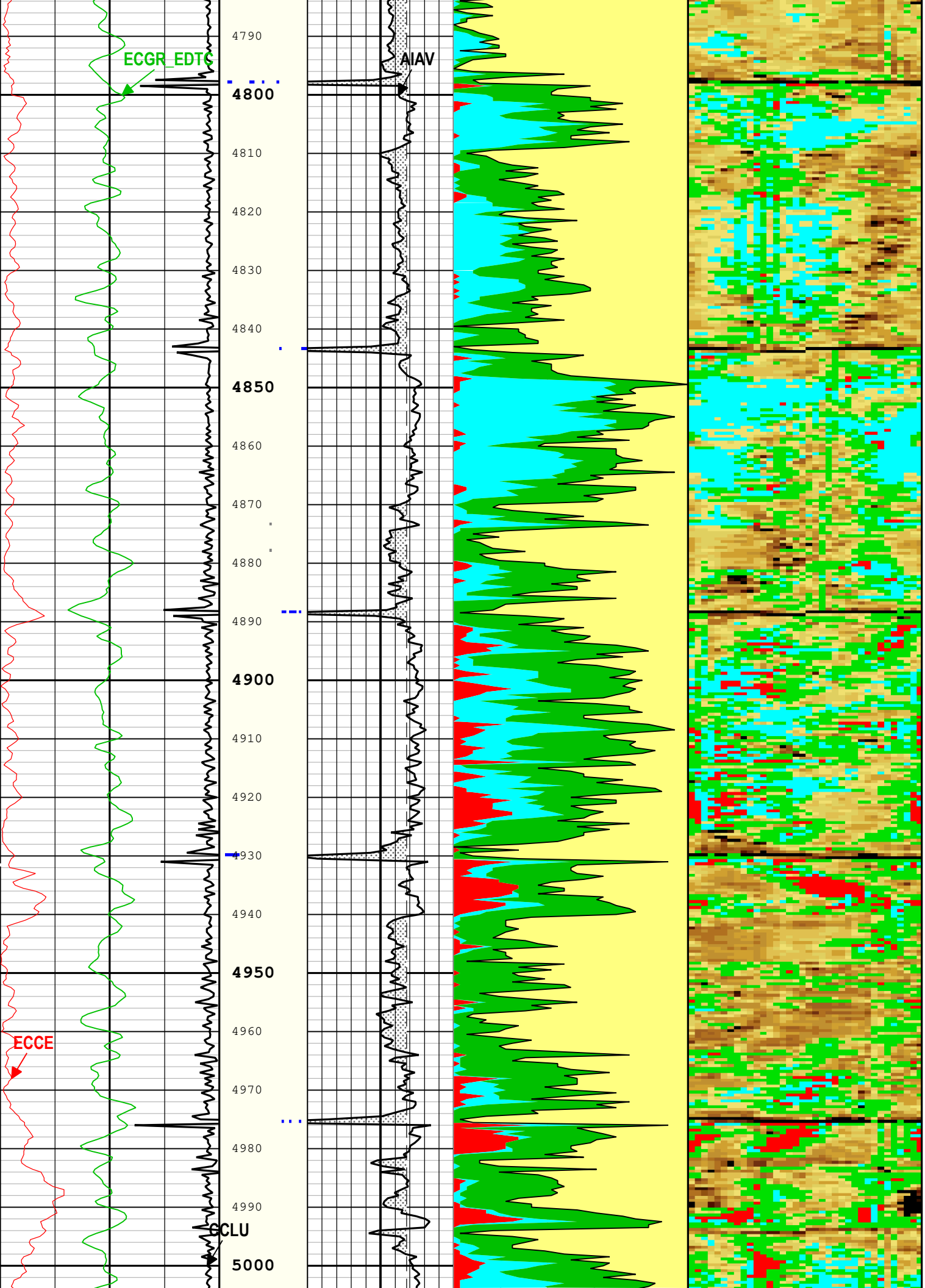
Bond Index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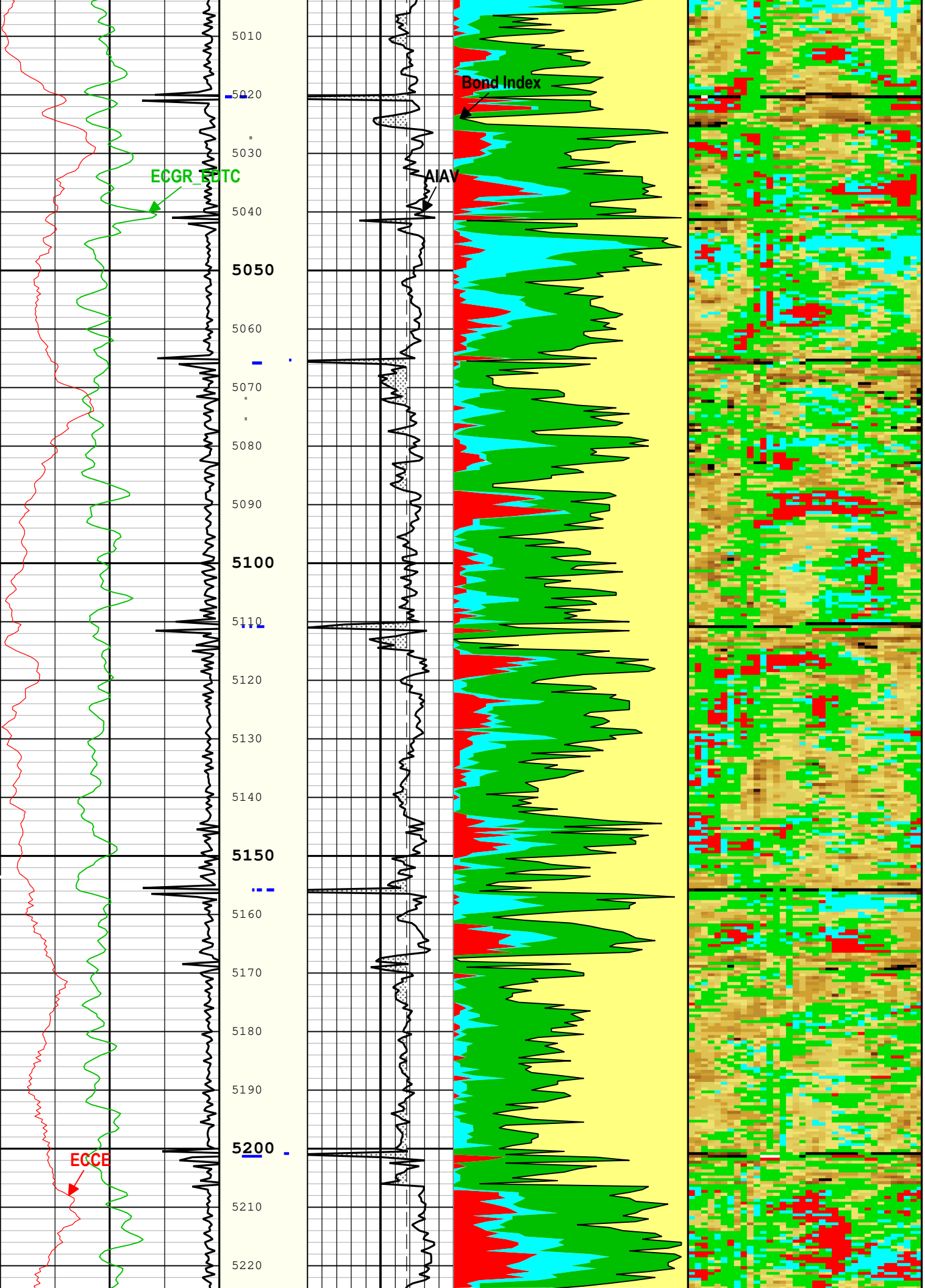
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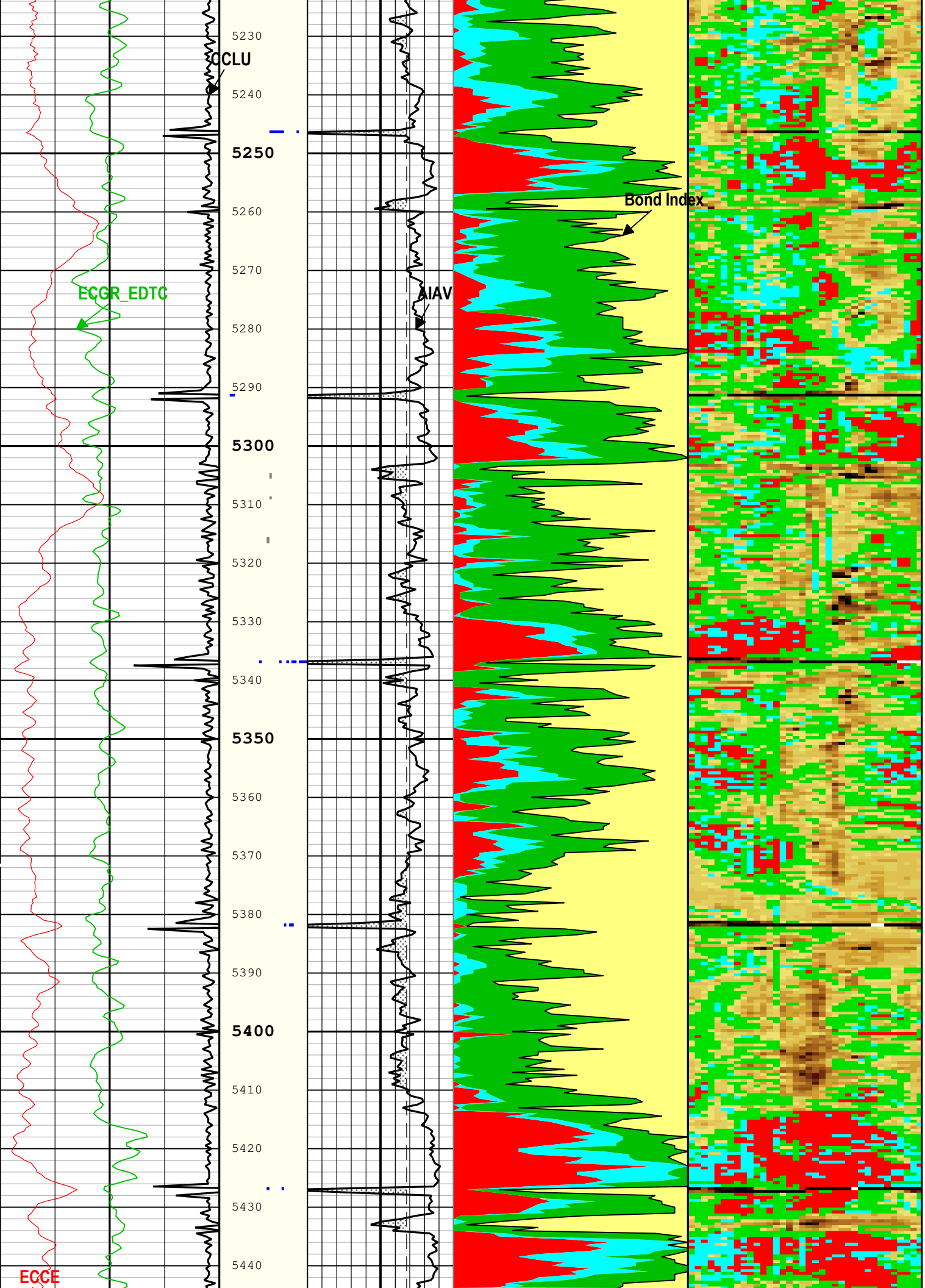
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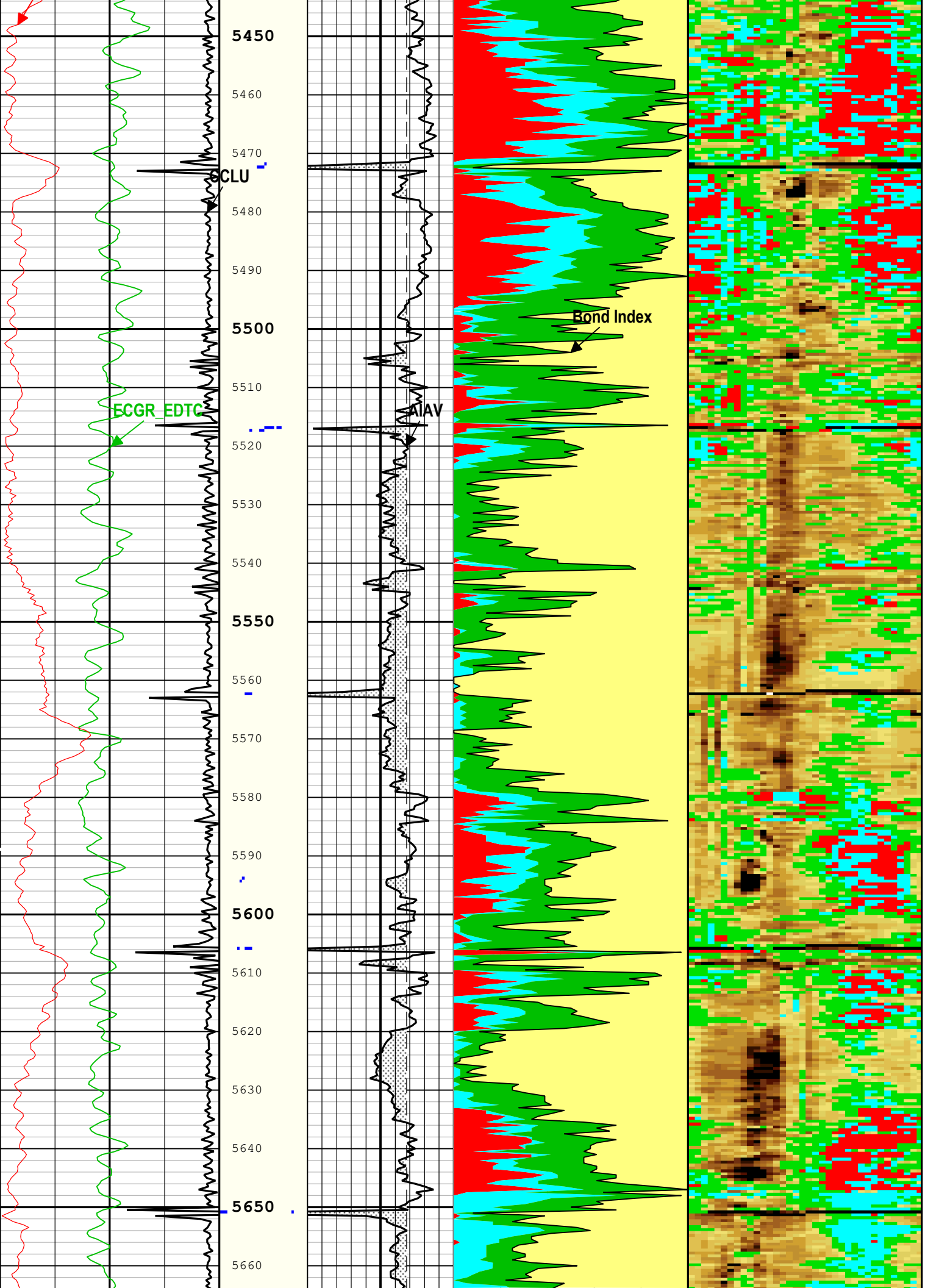
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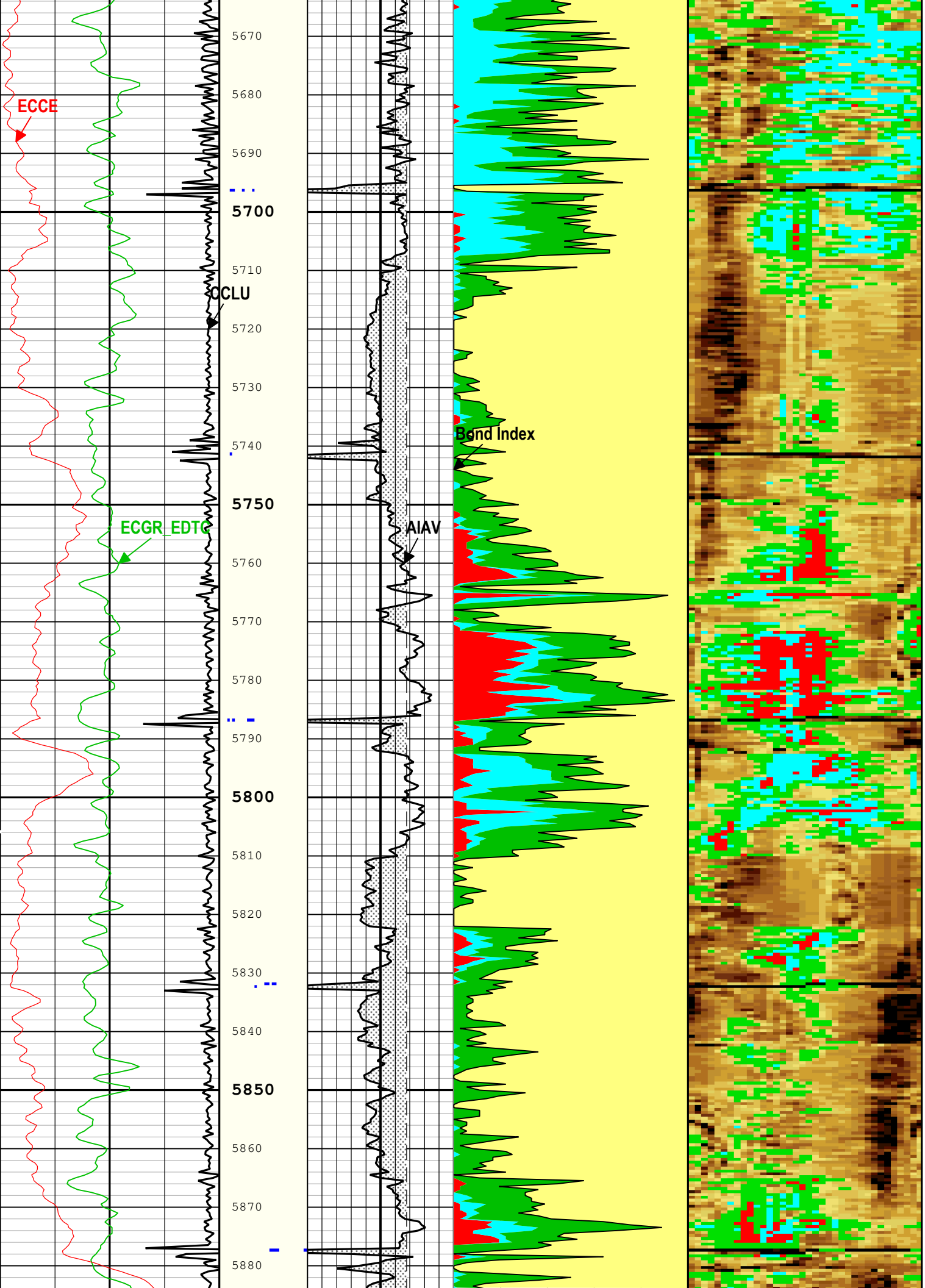
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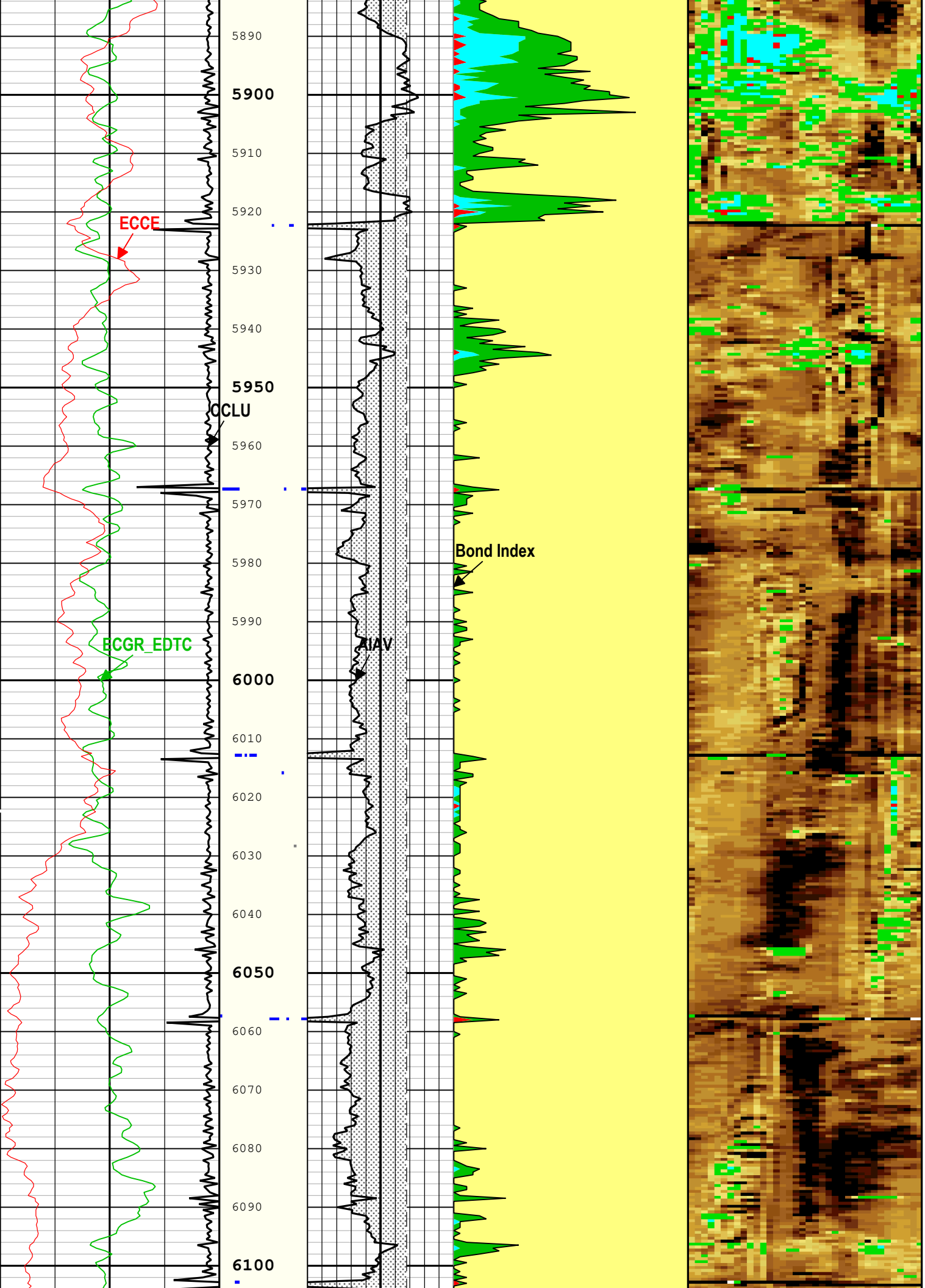
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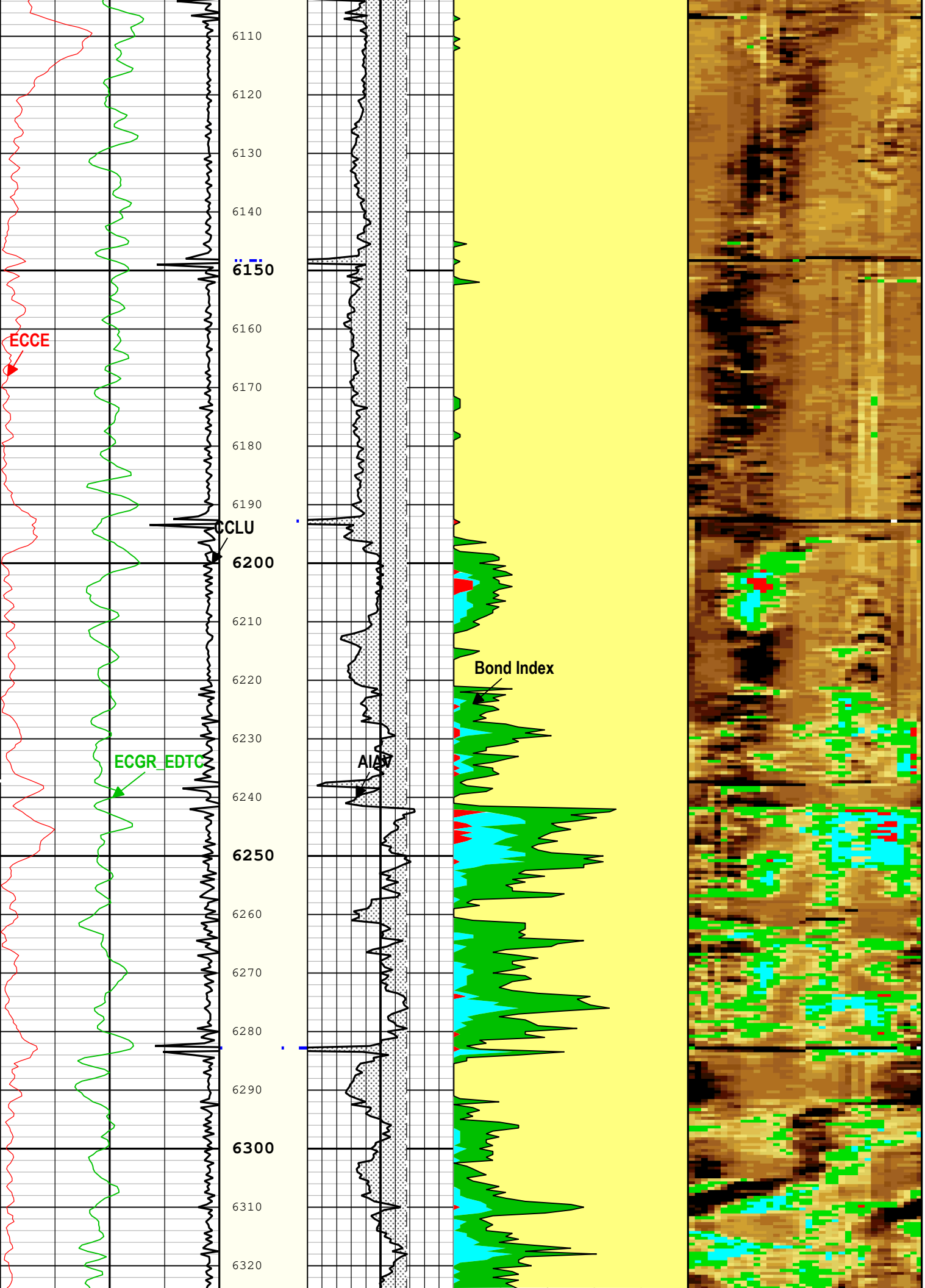
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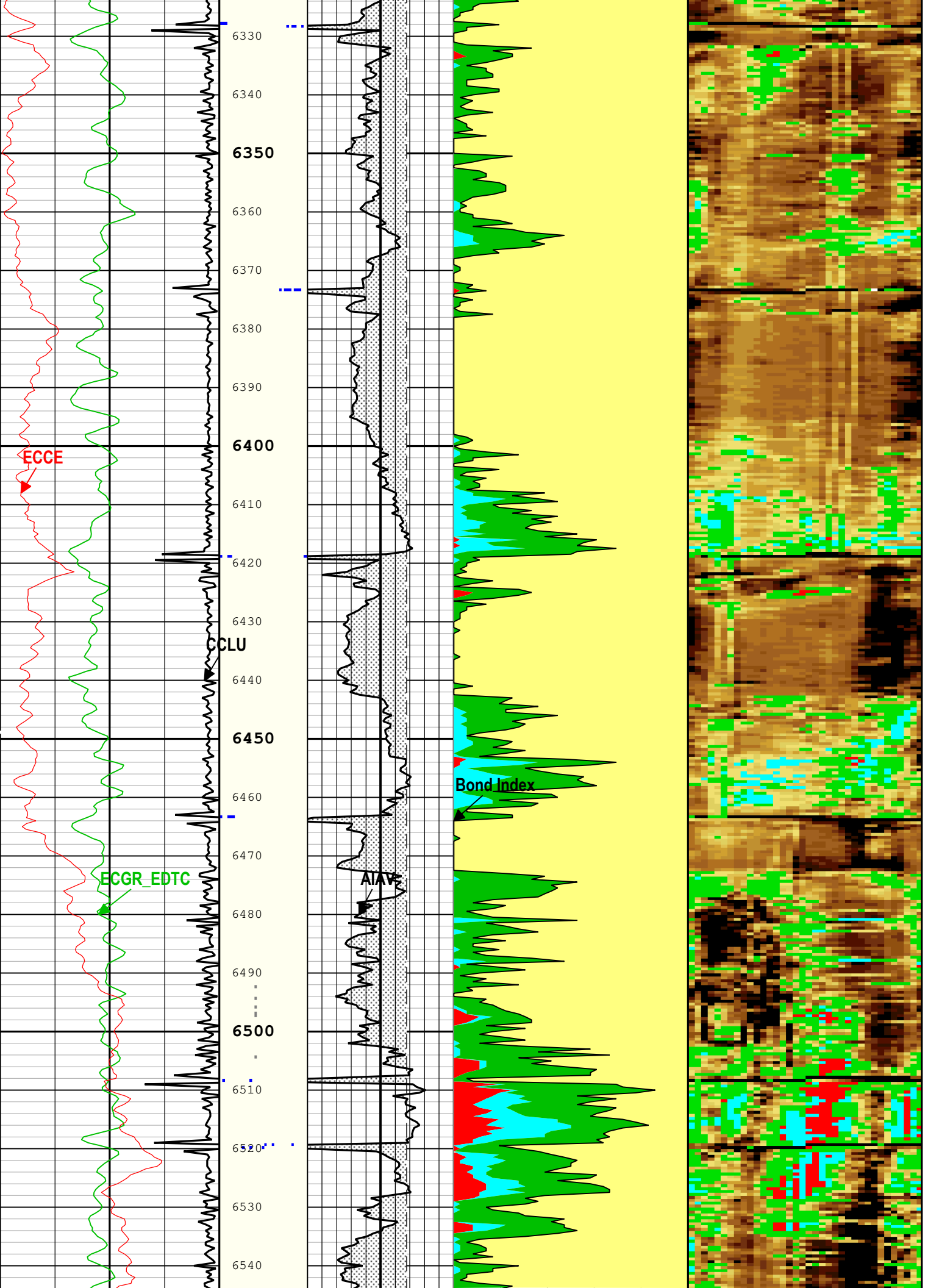
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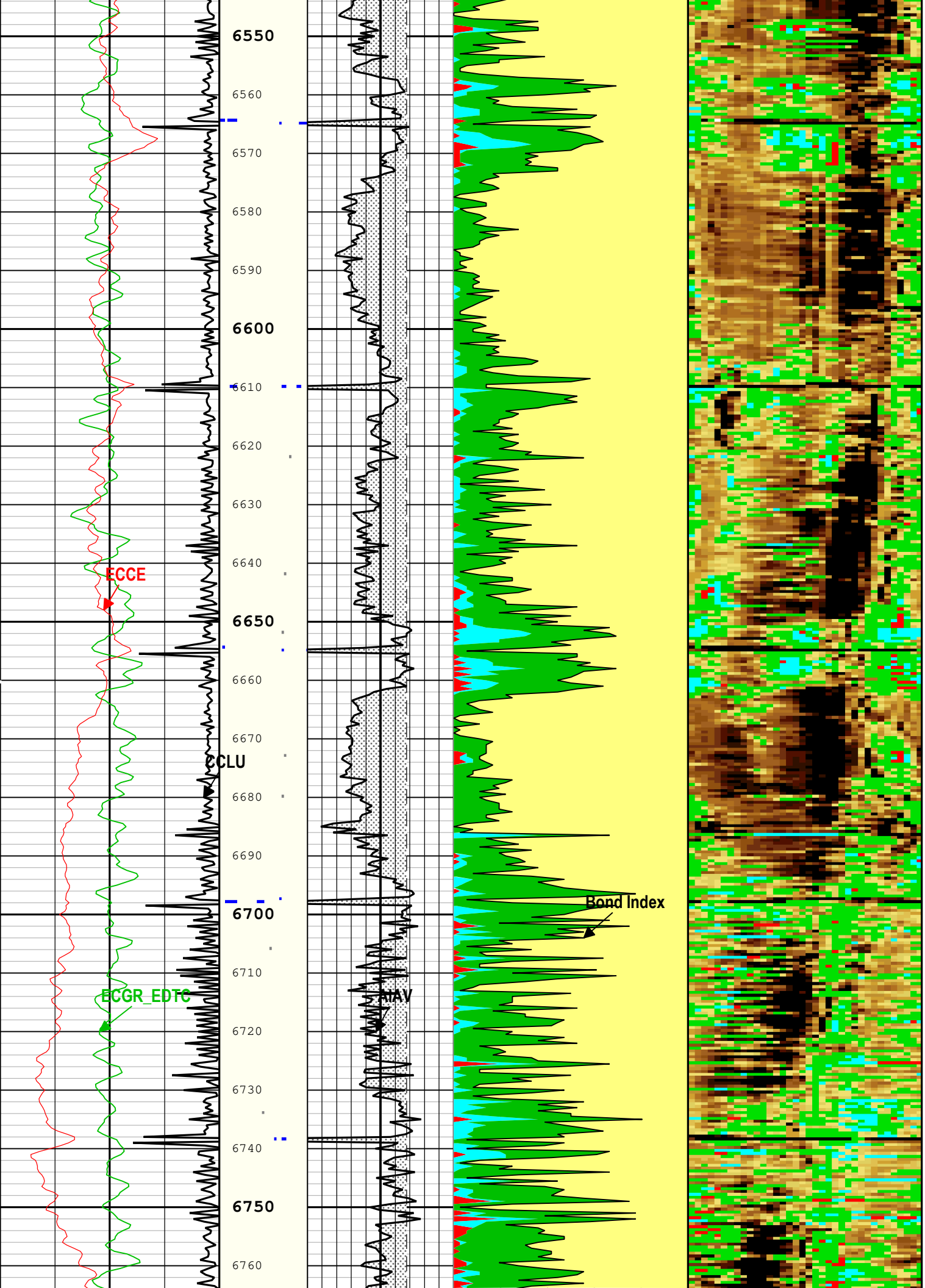
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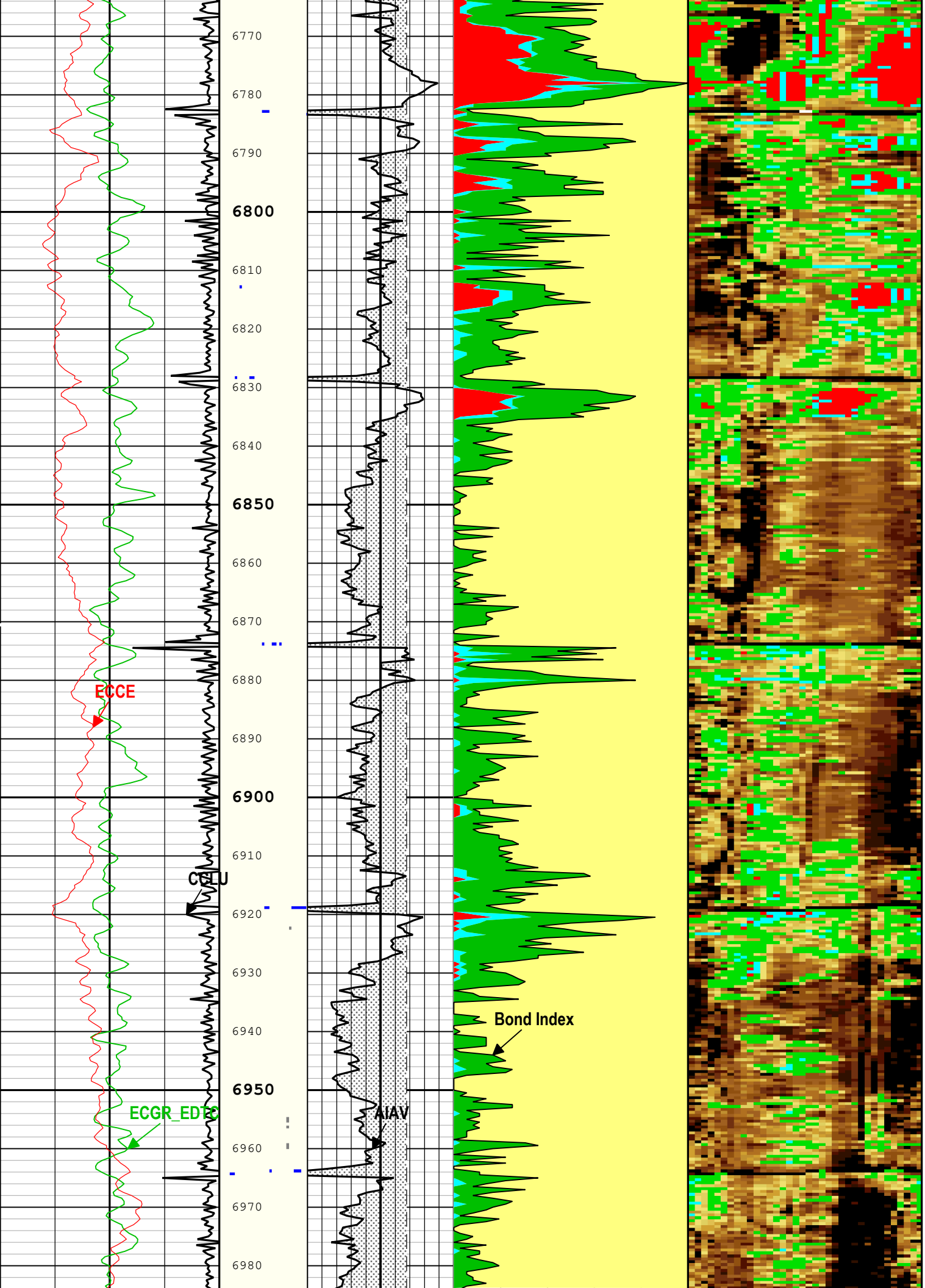
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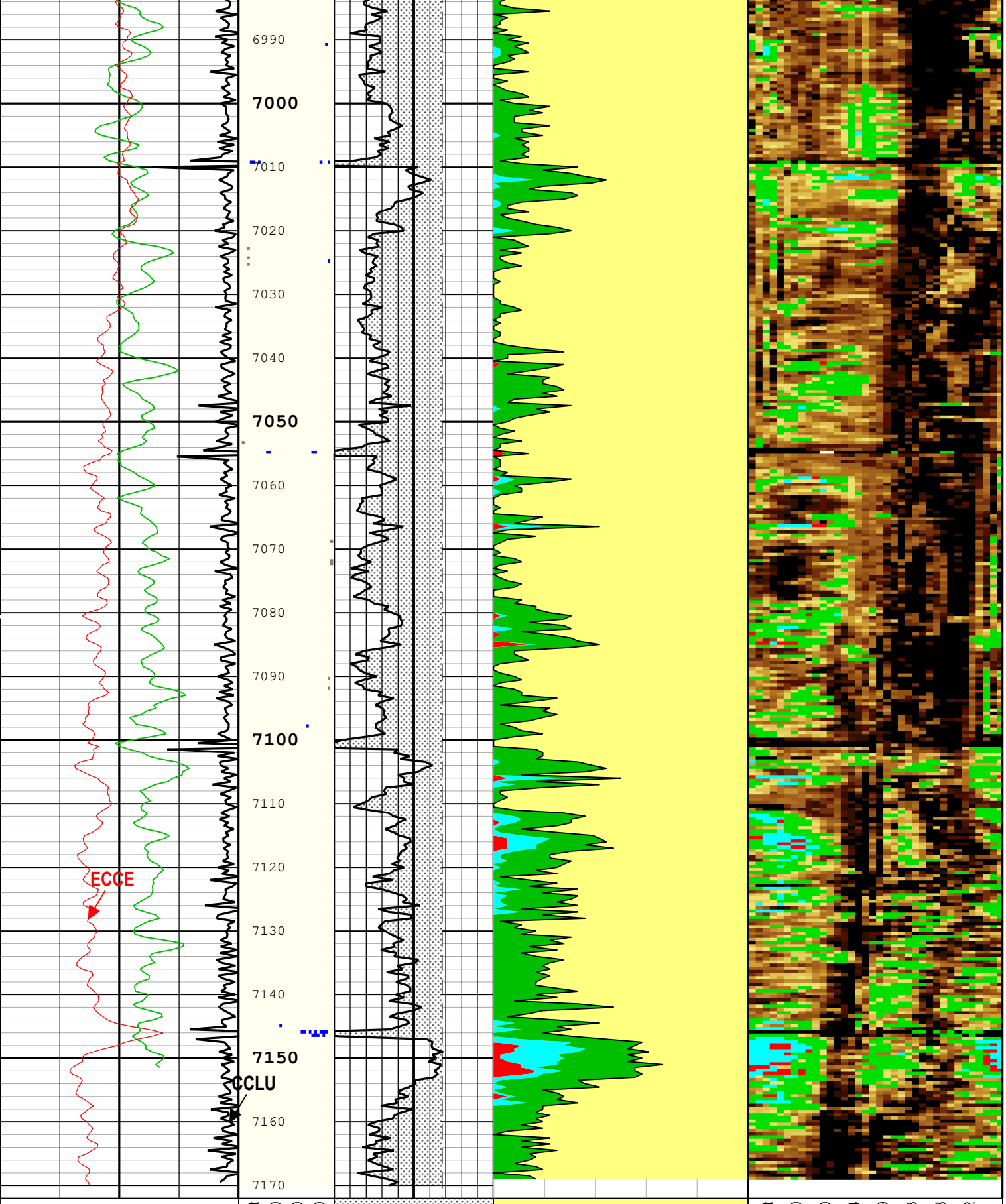
AIAV



Gamma Ray (ECGR_EDTC) EDTC-H

0 gAPI 150

Casing Collar Locator Ultrasonic (CCLU) USIT-E

-19 in 1

Absent 1.500 2.500 6.500

Explicit Normalization

USIT - USIT Processing Flags (UFLG)

AIAV>Cement Threshold

Acoustic Impedance Average (AIAV) USIT-E

9 Mrayl -1

Bonded

Gas

Liquid

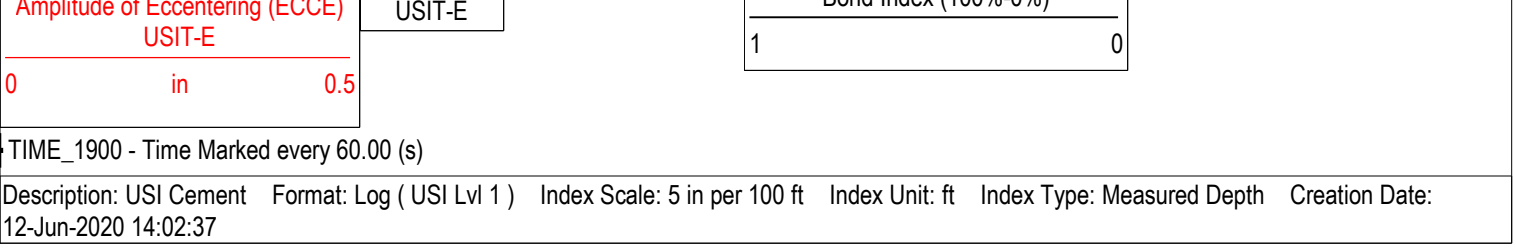
Micro-debonding

Bond Index (100%-0%)

Absent -500.000 2.200 3.254 4.309 5.363 6.418 7.472

Custom Normalization

USIT - Acoustic Impedance With Micro-debonding Image (AI_MDEBOND_IMG) USIT-E (Mrayl)



Description: USI Cement Format: Log (USI Lvl 1) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 12-Jun-2020 14:02:37

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	7171	ft
CDEN	Cement Density	EDTC-H	16.69	lbm/gal
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
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	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	Depth Zoned	us
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.14	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.75	Mrayl
USI_FVEL_SEL	USI Fluid Velocity Selection	USIT-E	Automatic	
USI_ZMUD_SEL	USI Mud Impedance Selection	USIT-E	Theoretical	
ZMUD	Acoustic Impedance of Mud	Borehole	1.75	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.2	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	50	1552
BS	8.5	1552	7172
MEAS_WLEN	22.44	50	7171
MEAS_WLEN	20	7171	7172

All depth are actual.

Tool Control Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
ULOG	Logging Objective	USIT-E	MEASUREMENT	
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	

UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 6.0 in	
WINB	Window Begin Time	USIT-E	31.88	us
WINE	Window End Time	USIT-E	71.88	us

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	45	12-Jun-2020 12:25:02	12-Jun-2020 12:25:52	7172.75	7104.35
EMXV	50	12-Jun-2020 12:25:52	12-Jun-2020 12:27:18	7104.35	6805.98
EMXV	47	12-Jun-2020 12:27:18	12-Jun-2020 12:30:46	6805.98	6072.52
EMXV	45	12-Jun-2020 12:30:46	12-Jun-2020 12:36:01	6072.52	4925.68
EMXV	43	12-Jun-2020 12:36:01	12-Jun-2020 12:36:25	4925.68	4835.89
EMXV	40	12-Jun-2020 12:36:25	12-Jun-2020 12:59:43	4835.89	34.49

All depth are at tool zero.

ONE

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[1]:Down	Down	41.30 ft	521.34 ft	12-Jun-2020 11:54:23 AM	12-Jun-2020 11:58:10 AM	ON	-6.82 ft	Yes

All depths are referenced to toolstring zero

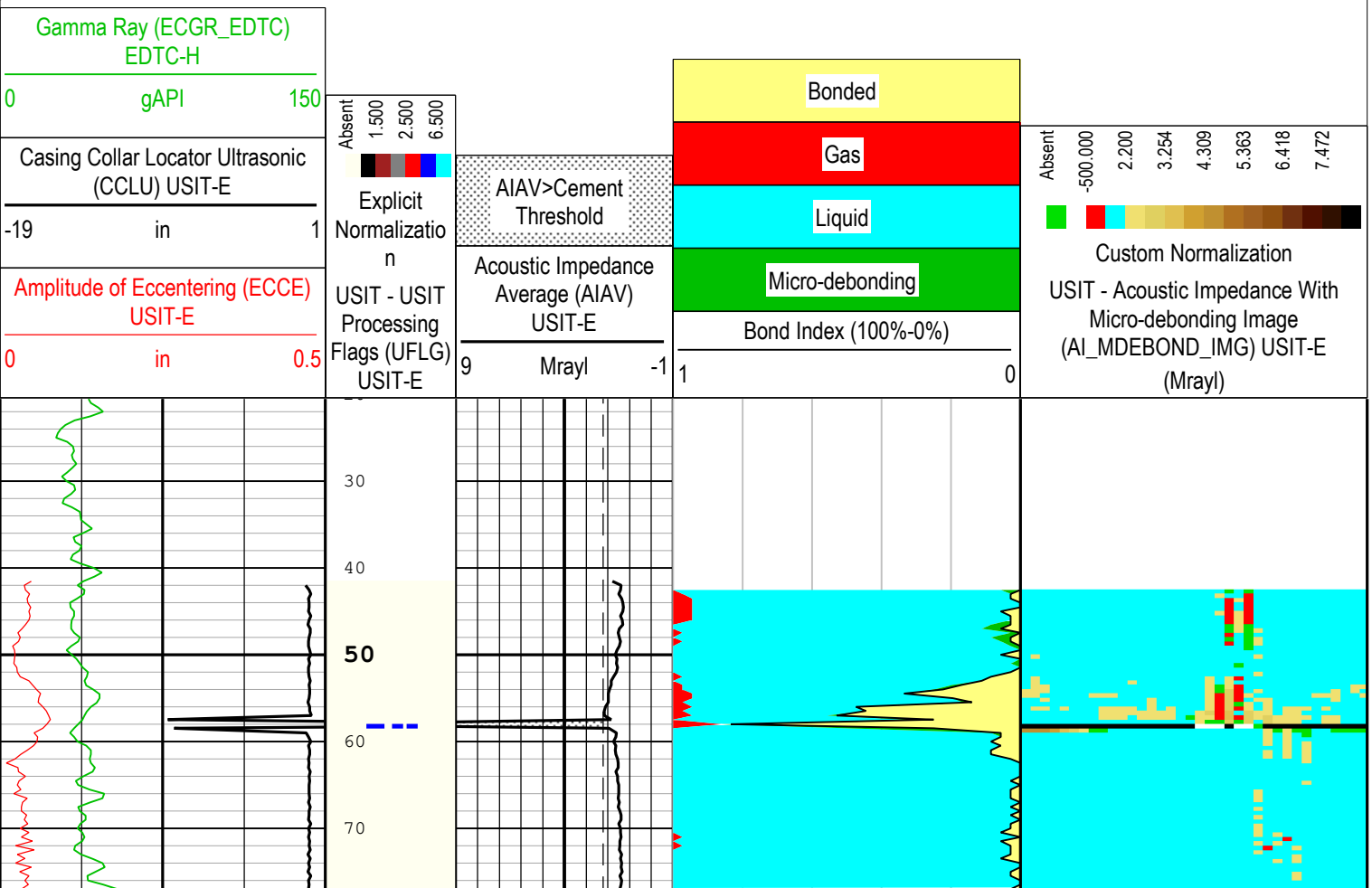
Log

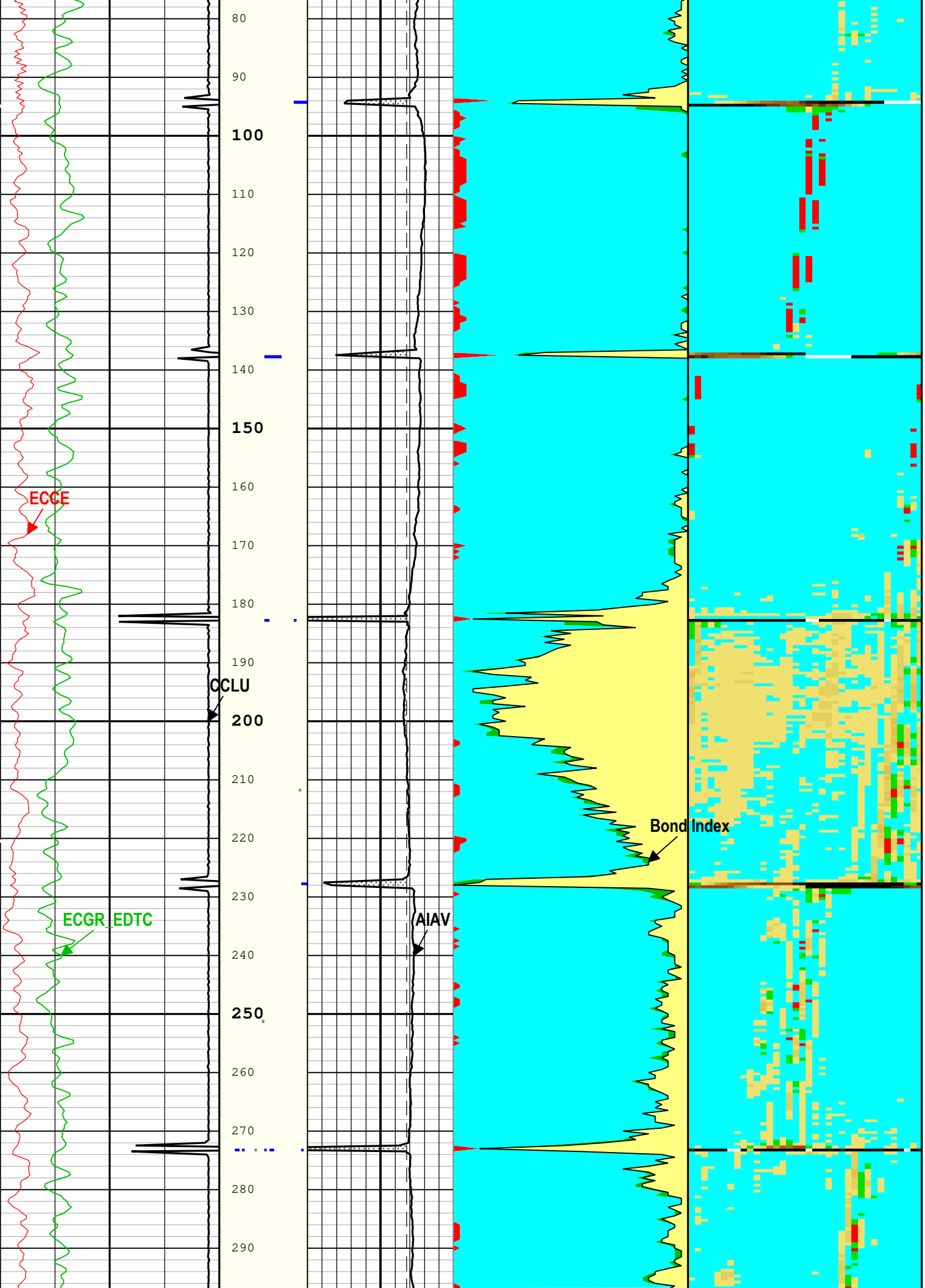
Company:Great Western Operating Company LLC Well:Postle IC 09-059HNX

ONE: Log[1]:Down:S003

Description: USI Cement Format: Log (USI Lvl 1) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 12-Jun-2020 14:03:15

TIME_1900 - Time Marked every 60.00 (s)

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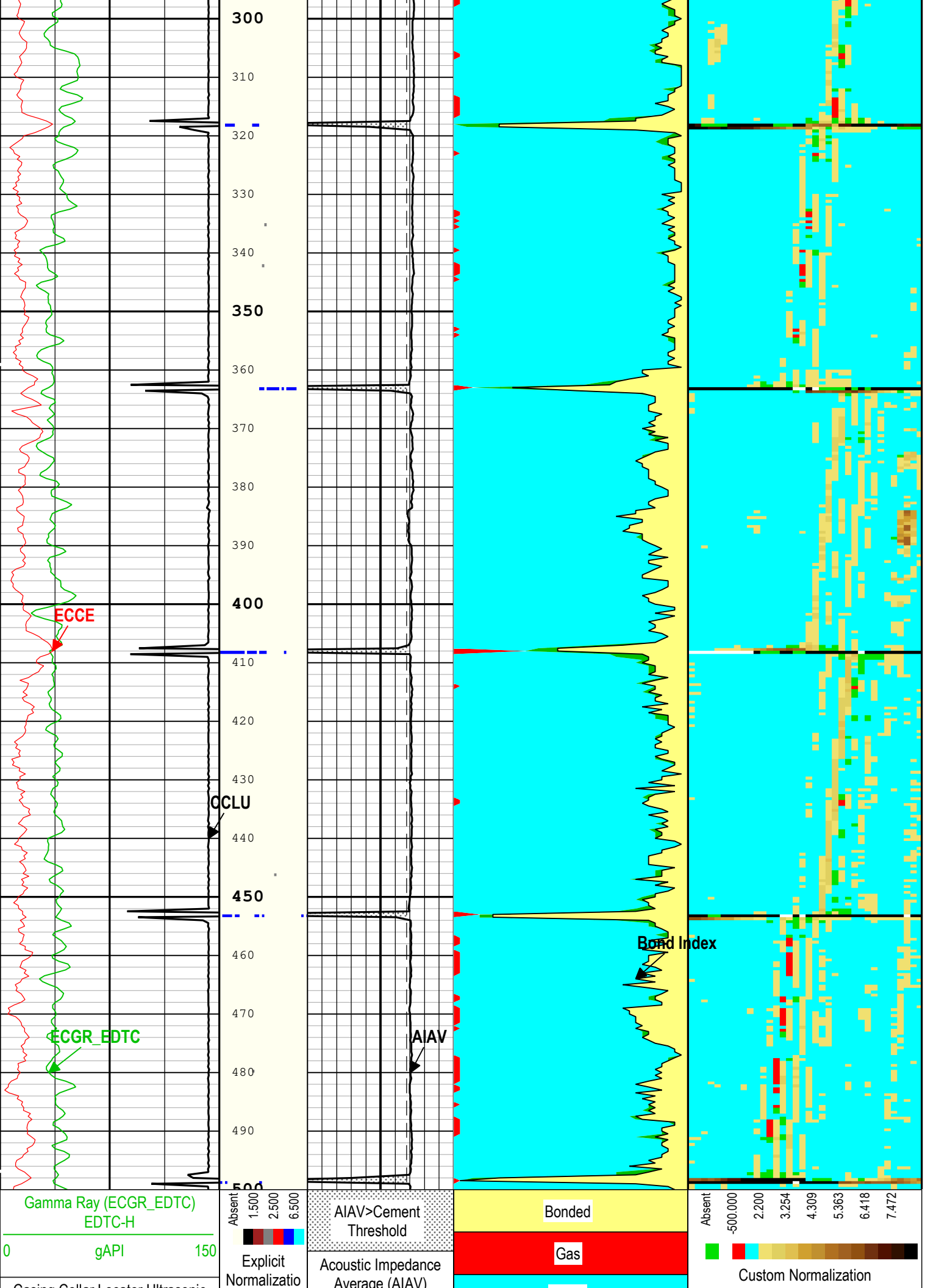
ECCE
CCLU
ECGR_EDTC
AIAV
Bond Index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CCLU
ECGR_EDTC
AIAV
Bond Index
Gamma Ray (ECGR_EDTC)
EDTC-H
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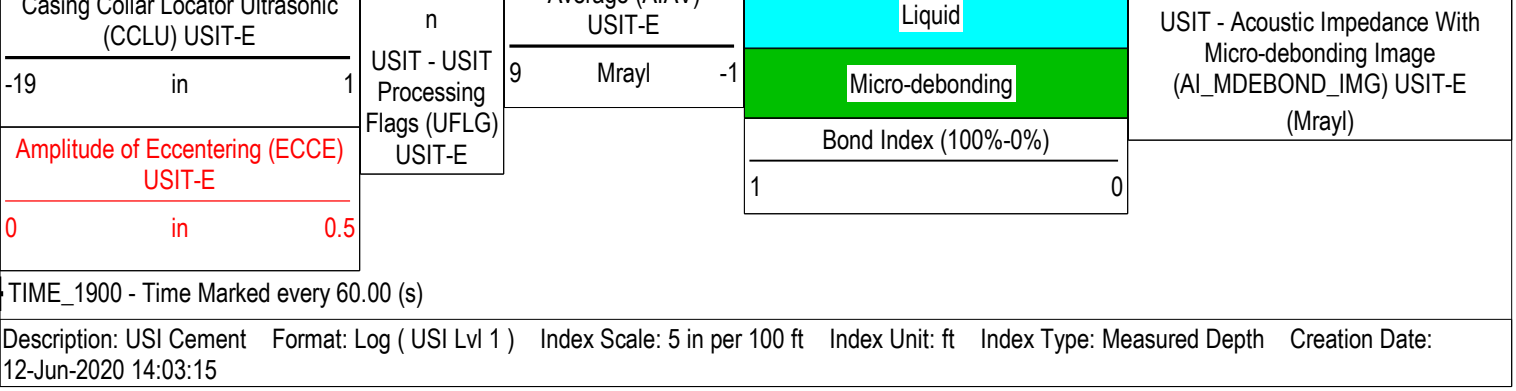
1.500
2.500
6.500
Explicit
Normalizatio
AIAV>Cement
Threshold
Acoustic Impedance
Average (AIAV)
Bonded
Gas
Absent
-500.000
2.200
3.254
4.309
5.363
6.418
7.472
Custom Normalization



Description: USI Cement Format: Log (USI Lvl 1) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 12-Jun-2020 14:03:15

Channel Processing Parameters

ONE: Parameters

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GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.14	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.75	Mrayl
USI_FVEL_SEL	USI Fluid Velocity Selection	USIT-E	Automatic	
USI_ZMUD_SEL	USI Mud Impedance Selection	USIT-E	Theoretical	
ZMUD	Acoustic Impedance of Mud	Borehole	1.75	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.2	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Tool Control Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
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AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
ULOG	Logging Objective	USIT-E	MEASUREMENT	
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 6.0 in	
WINB	Window Begin Time	USIT-E	31.88	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters

Time Zone Parameters

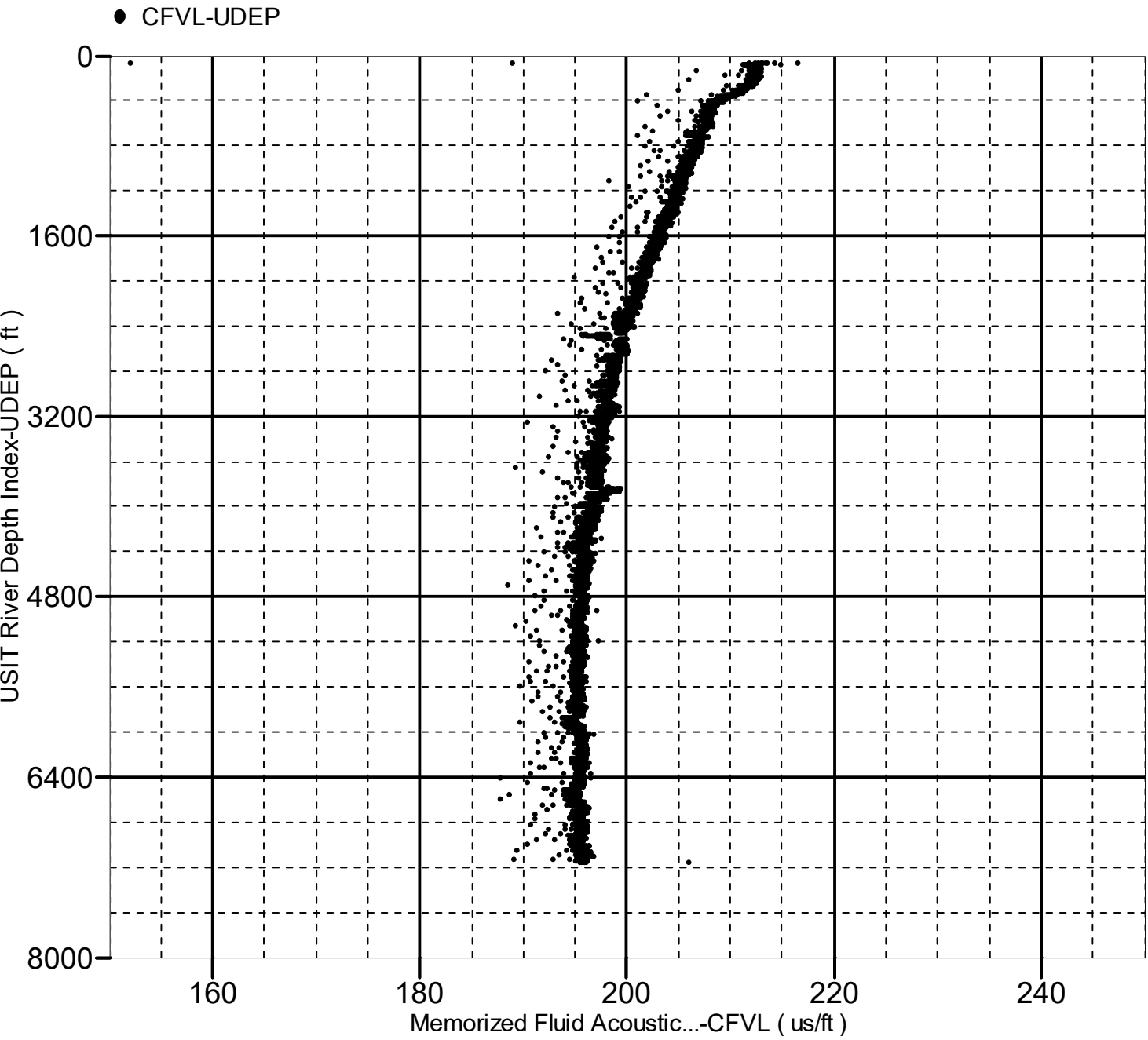
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	50	12-Jun-2020 11:54:23	12-Jun-2020 11:58:00	41.3	498.34
EMXV	45	12-Jun-2020 11:58:00	12-Jun-2020 11:58:10	498.34	521.34
WINE	71.88	12-Jun-2020 11:54:23	12-Jun-2020 11:55:07	41.3	109.63
WINE	74.65	12-Jun-2020 11:55:07	12-Jun-2020 11:58:10	109.63	521.34

All depth are at tool zero.

Fluid Acoustic Slowness vs Depth

2D Cross Plot

Index Range: From 7172.50 to 34.50 ft

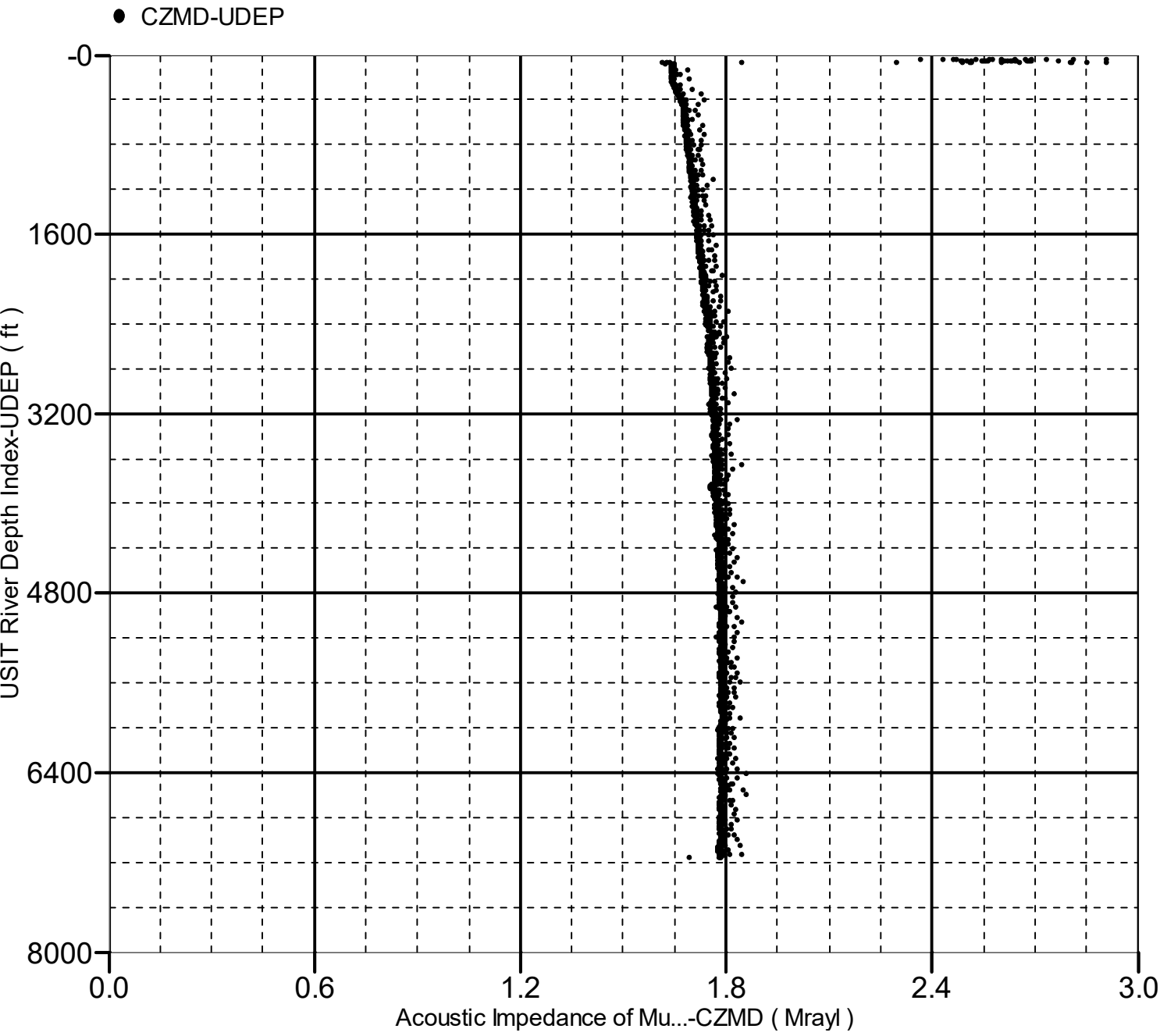


Acoustic Impedance of Mud vs Depth

Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 7172.50 to 34.50 ft



Company:	Great Western Operating Company LLC
Well:	Postle IC 09-059HNX
Field:	Wattenberg
County:	Weld
State:	Colorado

Schlumberger

UltraSonic Summary Print