Schlumberger

Company: Noble Energy INC

Well: Wells Ranch BB11-658

Field: Wattenberg

County: WELD State: Colorado

UltraSonic Summary Print

County: WELD
Field: Wattenberg
Location: NWSW Sec. 11, T5N, R63W
Well: Wells Ranch BB11-658
Company: Noble Energy INC

Location:
NWSW Sec. 11, T5N, R63W
SHL: 2249' FNL & 300' FWL
Lat/ Long: 40.41278, -104.41263

Elev.: K.B. 4698.00 ft
G.L. 4668.00 ft
D.F. 4698.00 ft

Permanent Datum: Ground Level Elev.: 4668.00 f
Log Measured From: Kelly Bushing 30.00 ft above Perm.Datum
Drilling Measured From: Kelly Bushing

API Serial No.	Section:	Township:	Range:
05-123-44959	11	5N	63W

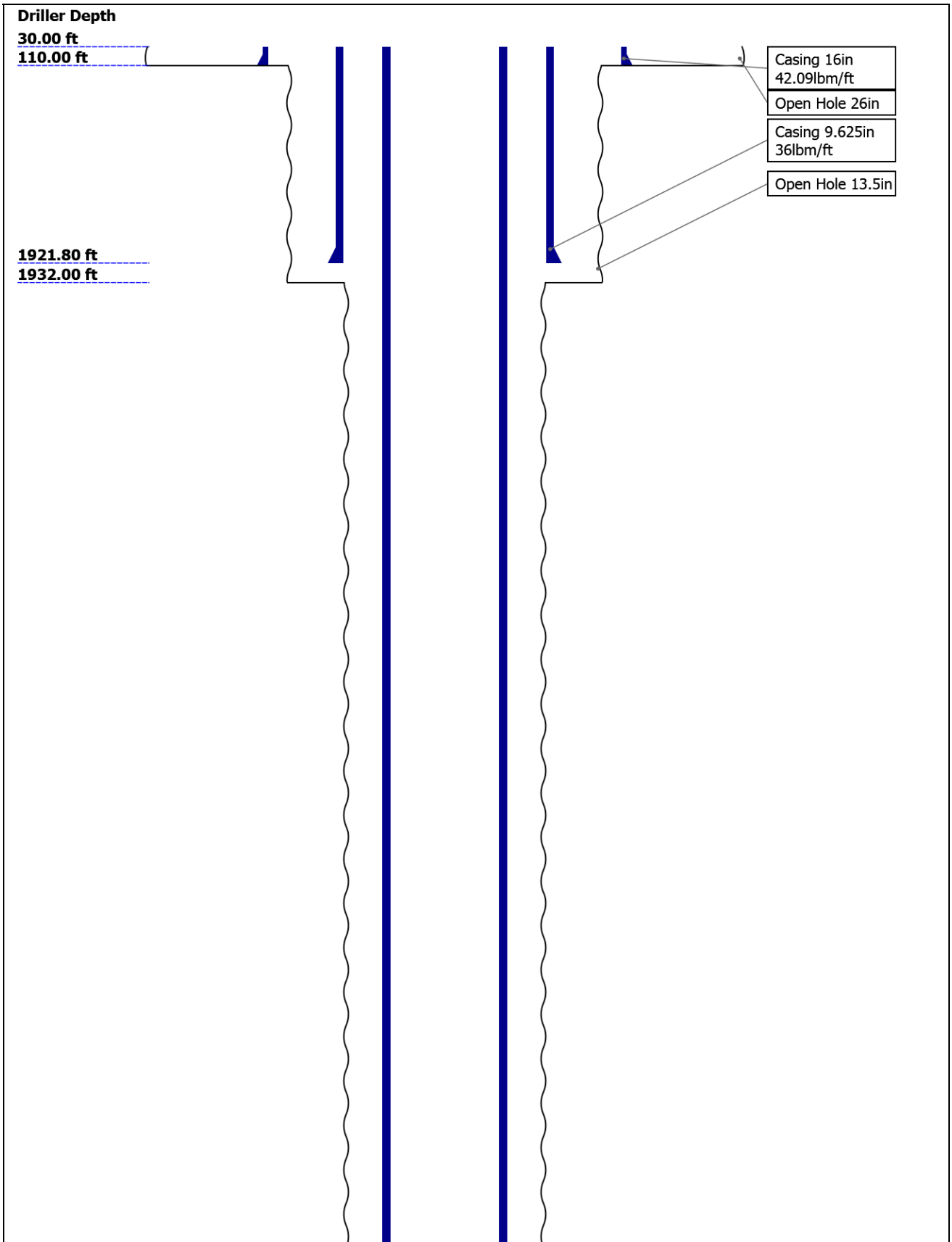
Logging Date		17-Sep-2017			
Run Number		ONE			
Depth Driller		16573.00 ft			
Schlumberger Depth		16573.00 ft			
Bottom Log Interval		5850.00 ft			
Top Log Interval		86.00 ft			
Casing Fluid Type		Brine			
Salinity					
Density		8.4 lbm/gal			
Fluid Level		0.00 ft			
BIT/CASING/TUBING STRING					
Bit Size		8.50 in			
From		1932.00 ft			
To		16573.00 ft			
Casing/Tubing Size		5.5 in			
Weight		20 lbm/ft			
Grade		N/A			
From		30.00 ft			
To		16555.50 ft			
Max Recorded Temperatures		226.82 degF			
Logger on Bottom	Time	18-Sep-2017	12:30:00		
Unit Number	Location:	2161	Fort Morgan		
Recorded By		Camila Lang			
Witnessed By		Bill Manfield			

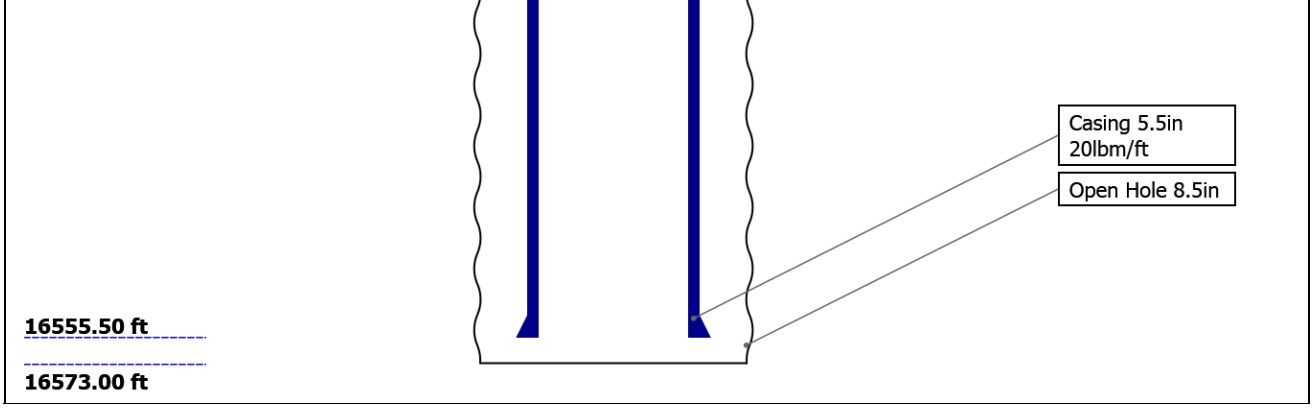
Disclaimer

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

Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	26	13.5	8.5			
Top Driller (ft)	30	110	1932			
Top Logger (ft)	30	110	1932			
Bottom Driller (ft)	110	1932	16573			
Bottom Logger (ft)	110	1932	16573			
Casing						
Size (in)	16	9.625	5.5			
Weight (lbm/ft)	42.09	36	20			
Inner Diameter (in)	15.511	8.921	4.778			
Grade	N/A	N/A	N/A			
Top Driller (ft)	30	30	30			
Top Logger (ft)	30	30	30			
Bottom Driller (ft)	110	1921.8	16555.5			
Bottom Logger (ft)	110	1921.8	16555.5			

Operational Run Summary

Parameter (unit)	ONE					
Date Log Started	17-Sep-2017					
Time Log Started	23:18:24					
Date Log Finished	18-Sep-2017					
Time Log Finished	01:42:09					
Top Log Interval (ft)	86.00					
Bottom Log Interval (ft)	5850.00					
Total Depth (ft)	5850.00					
Max Hole Deviation (deg)	0.00					
Azimuth of Max Deviation (deg)	0.00					
Bit Size (in)	8.500					
Logging Unit Number	2161					
Logging Unit Location	Fort Morgan					
Recorded By	Camila Lang					

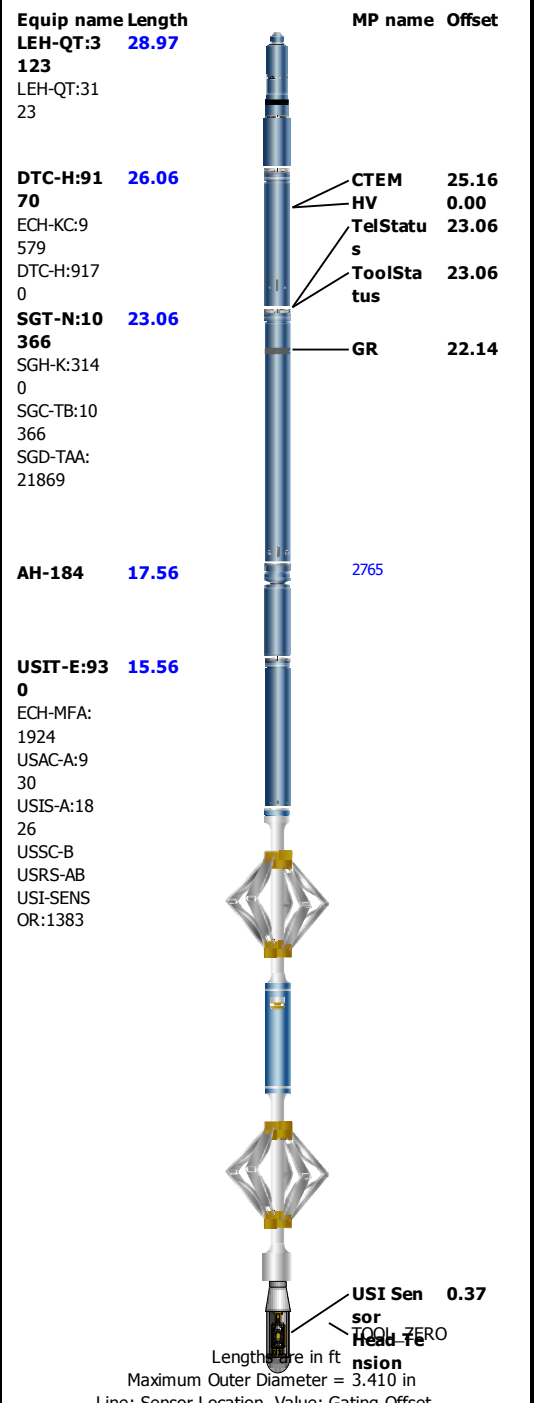
Witnessed By	Bill Manfield					
Service Order Number	DVWV-00022					

Borehole Fluids

Parameter(unit)	ONE					
Fluid Type	Water					
Fluid Name	Brine					
Max Recorded Temperatures (degF)	226.82					
Salinity (ppm)	0					
Density (lbm/gal)	8.4					
Date Logger on Bottom	18-Sep-2017					
Time Logger on Bottom	12:30:00					
Total Solid (%)	26					
High Gravity Solids (%)						

Remarks and Equipment Summary

ONE: Toolstring



ONE: Remarks

ONE: Remarks
Tool ran as per tool sketch.
This is the first log in the well.
CSG: 9.625" 36lb/ft @ 1932' 5.5" 20 lb/ft @ 16555.5'
Fluid: Fresh Water 8.4 lb/gal
Main pass recorded under 2500 PSI, and repeat pass recorded under 0 PSI
BHT: 226.82 degF

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	7-39P-LXS		
Serial Number			
Length	10000.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane USA		

ONE:Depth Control Parameters		Depth Control Remarks
Log Sequence	First Log In the Well	All Schlumberger depth control policies were followed.
Rig Up Length At Surface		IDW used as a primary depth reference.
Rig Up Length At Bottom		Z-chart used as a secondary depth reference.
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[5]:Up	6452.27	76.03

Fluid Velocity = "Automatic".
CFVL equals DFSL channel

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

Mud Impedance = "FreePipe Norm.".
Free Pipe normalization zone is : 24.02m(78.80ft) to 25.61m(84.01ft)
MUD_N_FRP = 1.15
DFD = 1.01g/cm3(8.40lbm/gal)
CZMD median computed in free pipe normalization interval = 1.68 MRayl

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

ONE

2500 PSI Main Pass

Software Version

Acquisition System	Version

Acquisition System	Version
Maxwell 2017 SP2	7.2.87778.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[5]:Up	Up	76.03 ft	6452.27 ft	18-Sep-2017 12:24:43 AM	18-Sep-2017 1:33:32 AM	ON	2.15 ft	Yes

All depths are referenced to toolstring zero

Log

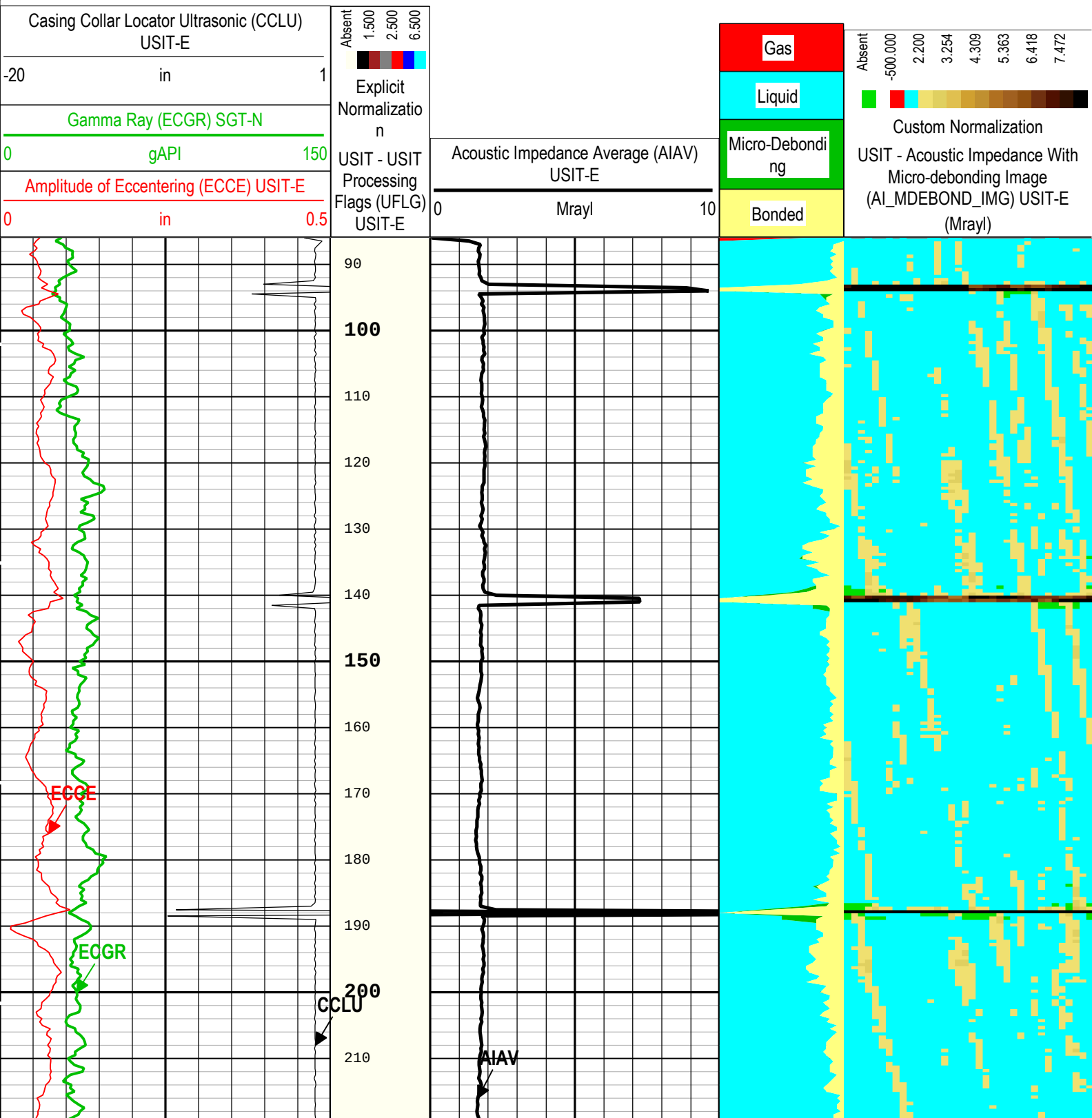
Company:Noble Energy INC Well:Wells Ranch BB11-658

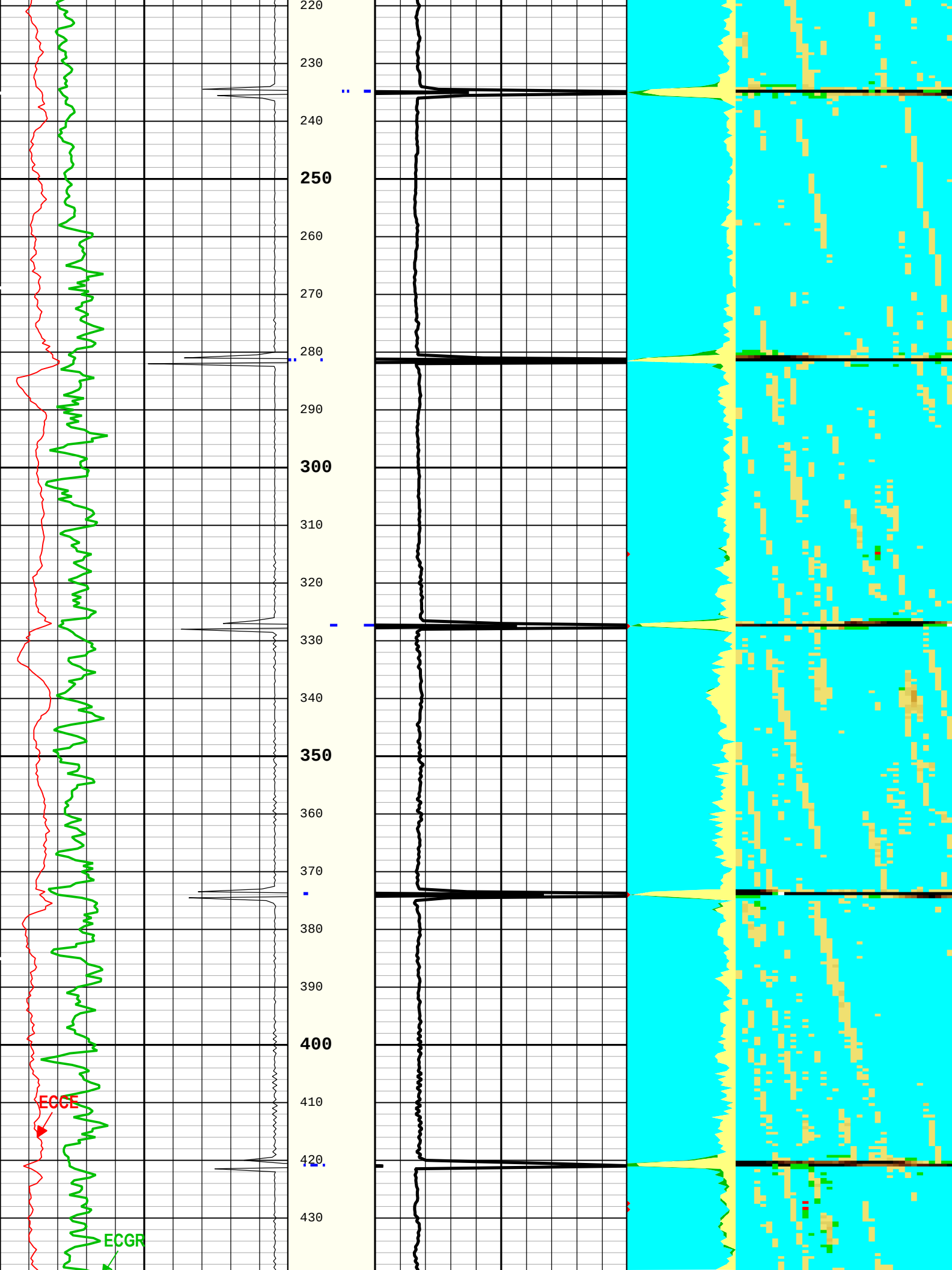
ONE: Log[5]:Up:S006

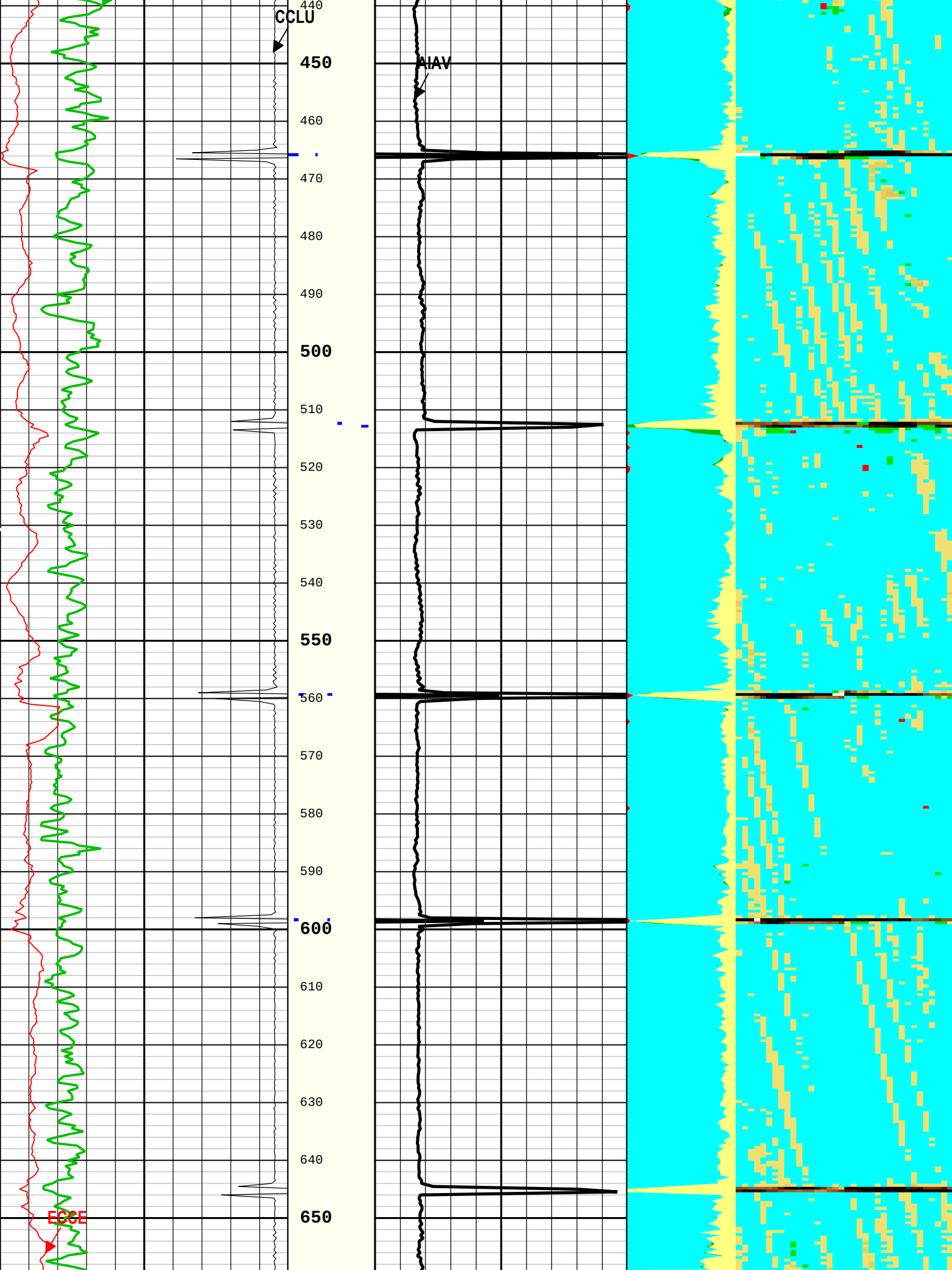
Description: Format: Log (DJ Basin Ultrasonic Cement Summary Report) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth

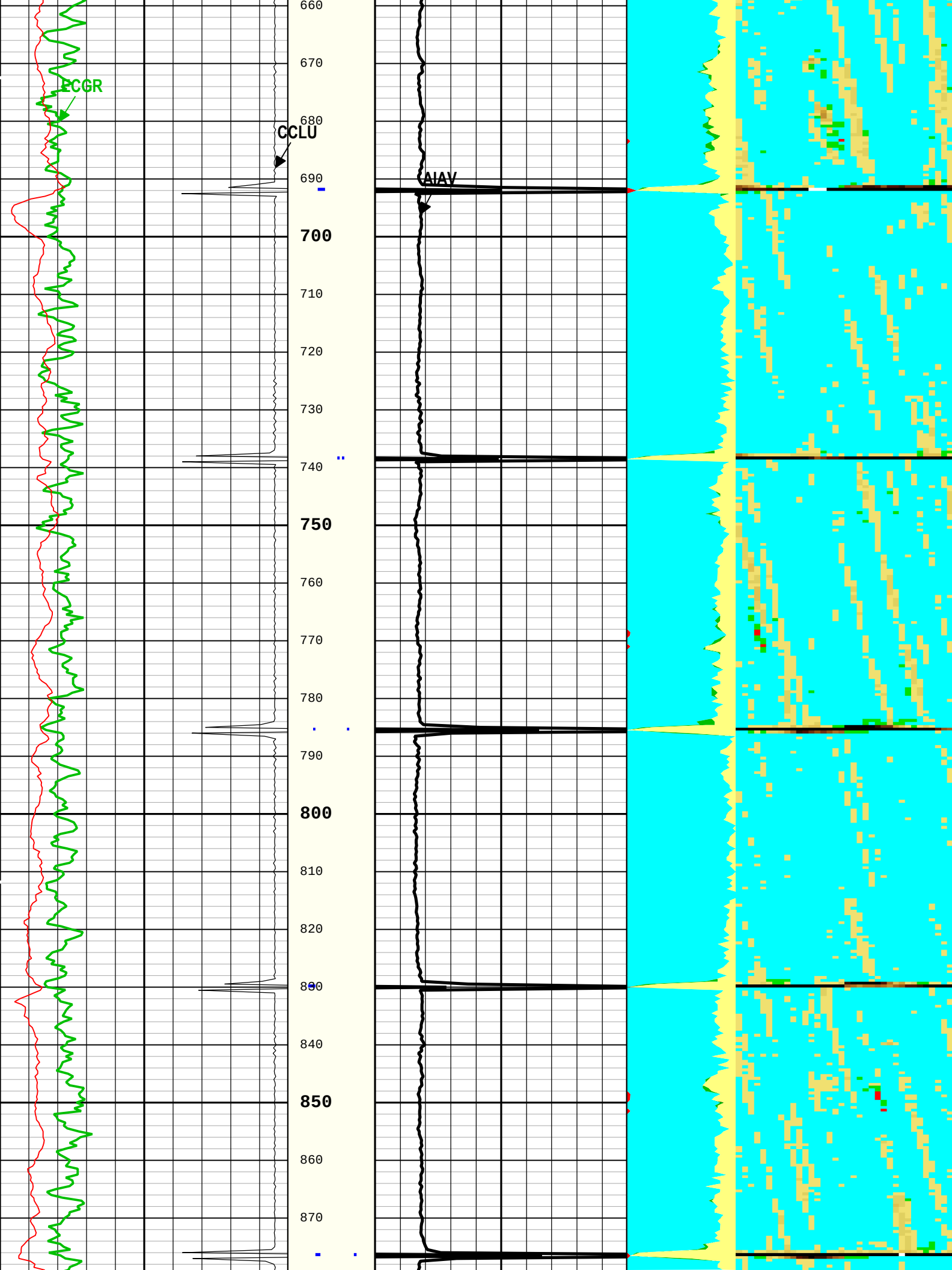
Creation Date: 18-Sep-2017 02:55:02

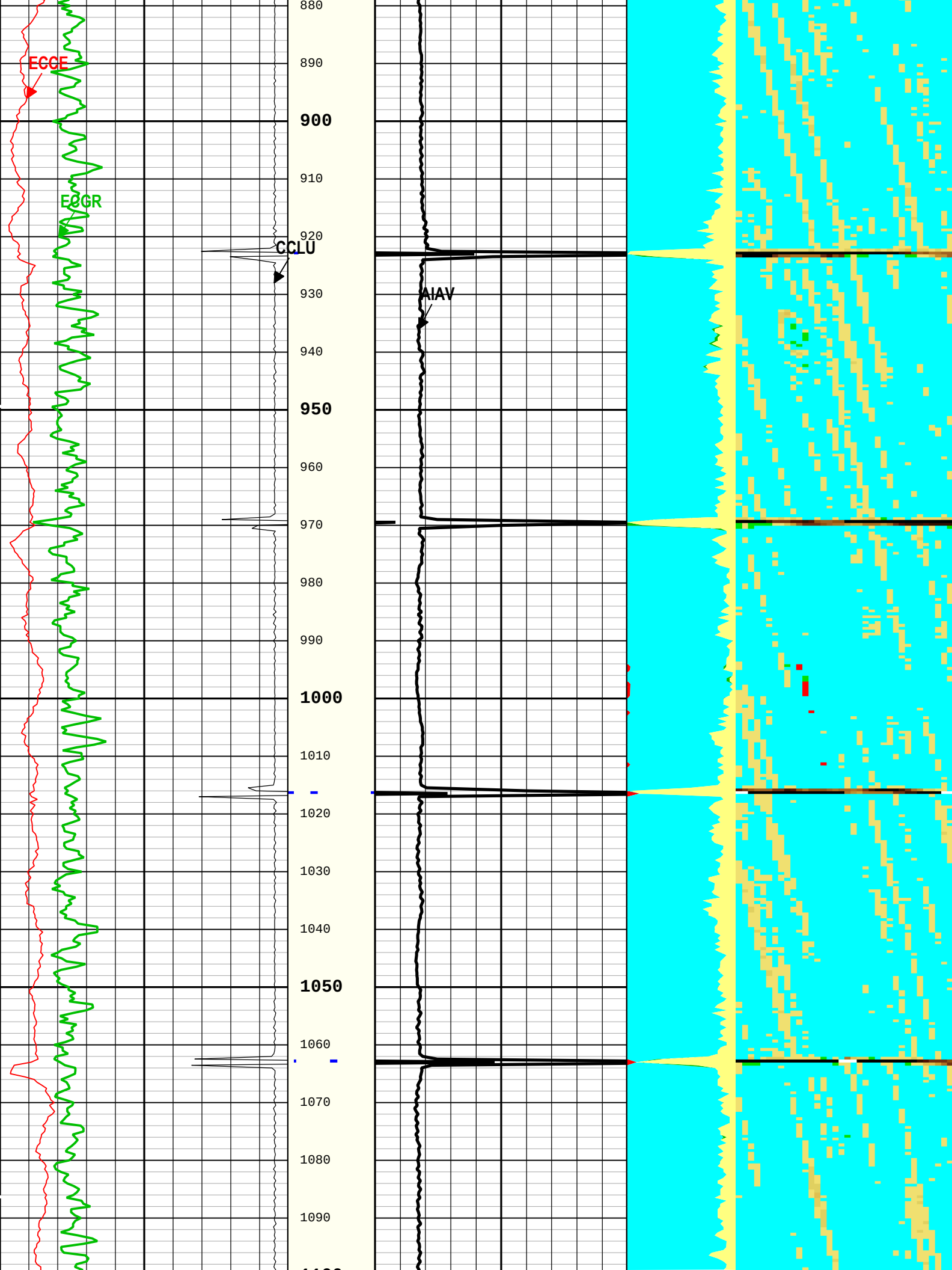
TIME_1900 - Time Marked every 60.00 (s)

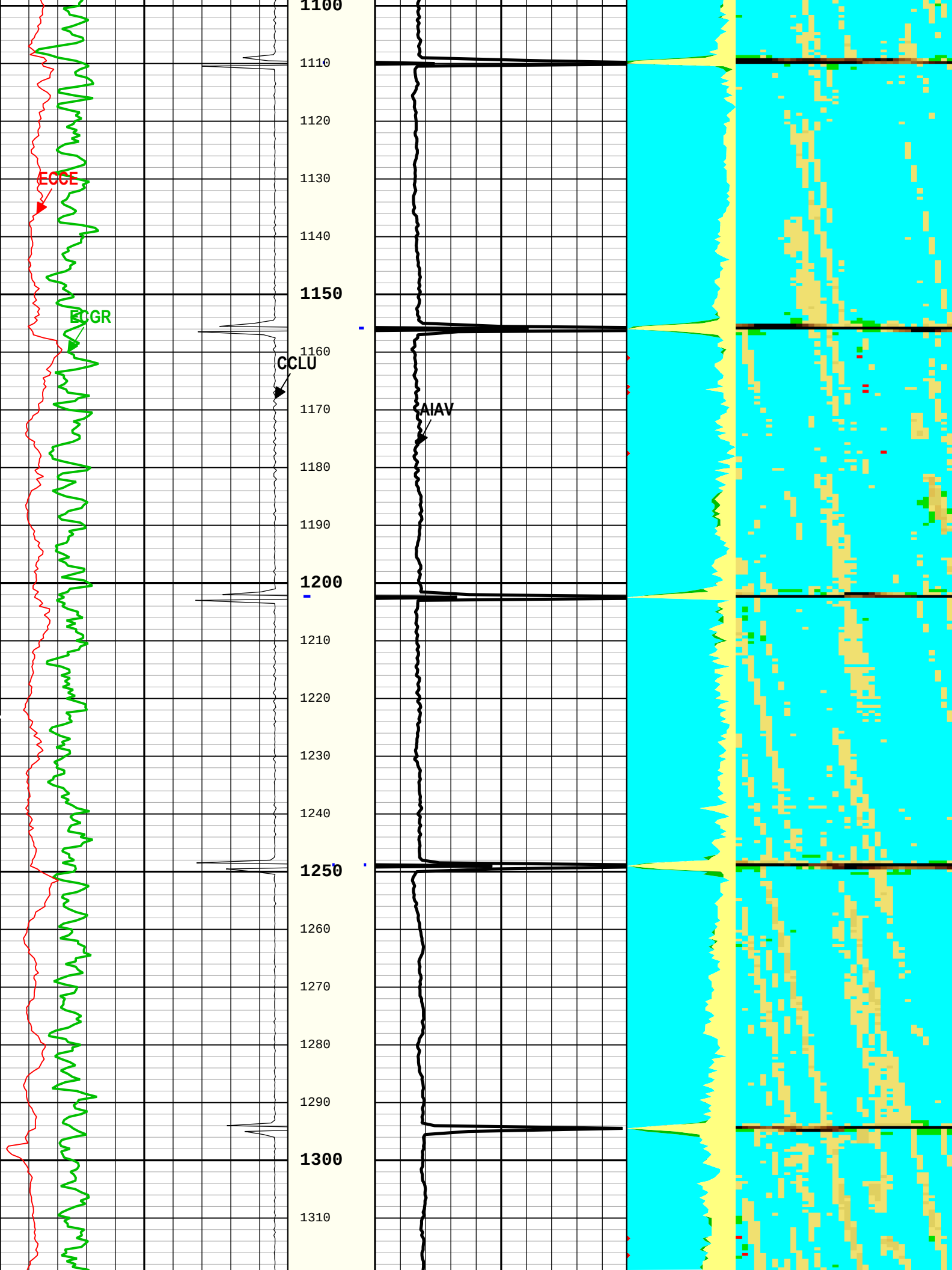


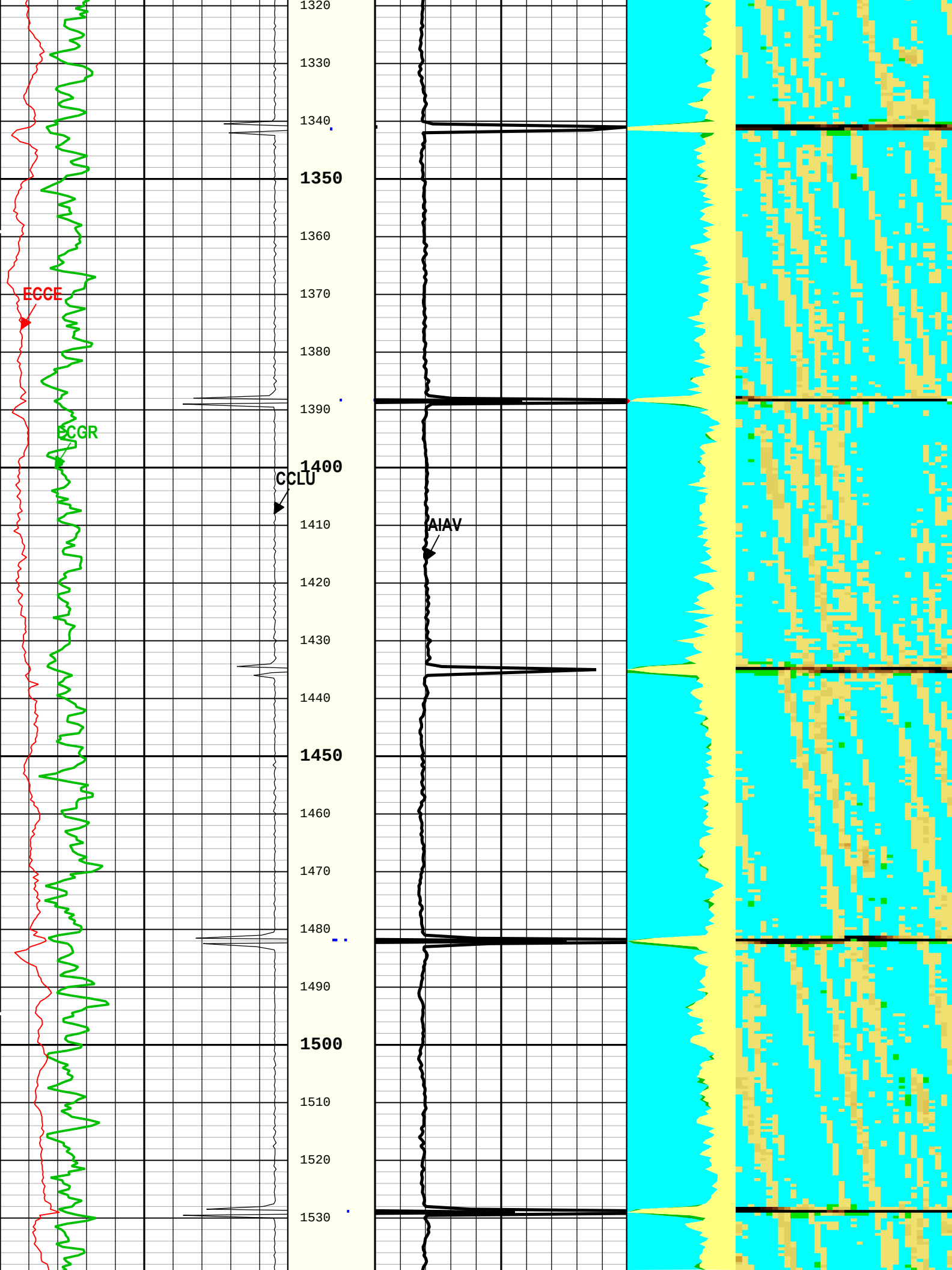

220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
370
380
390
400
410
420
430
ECGE
ECGR

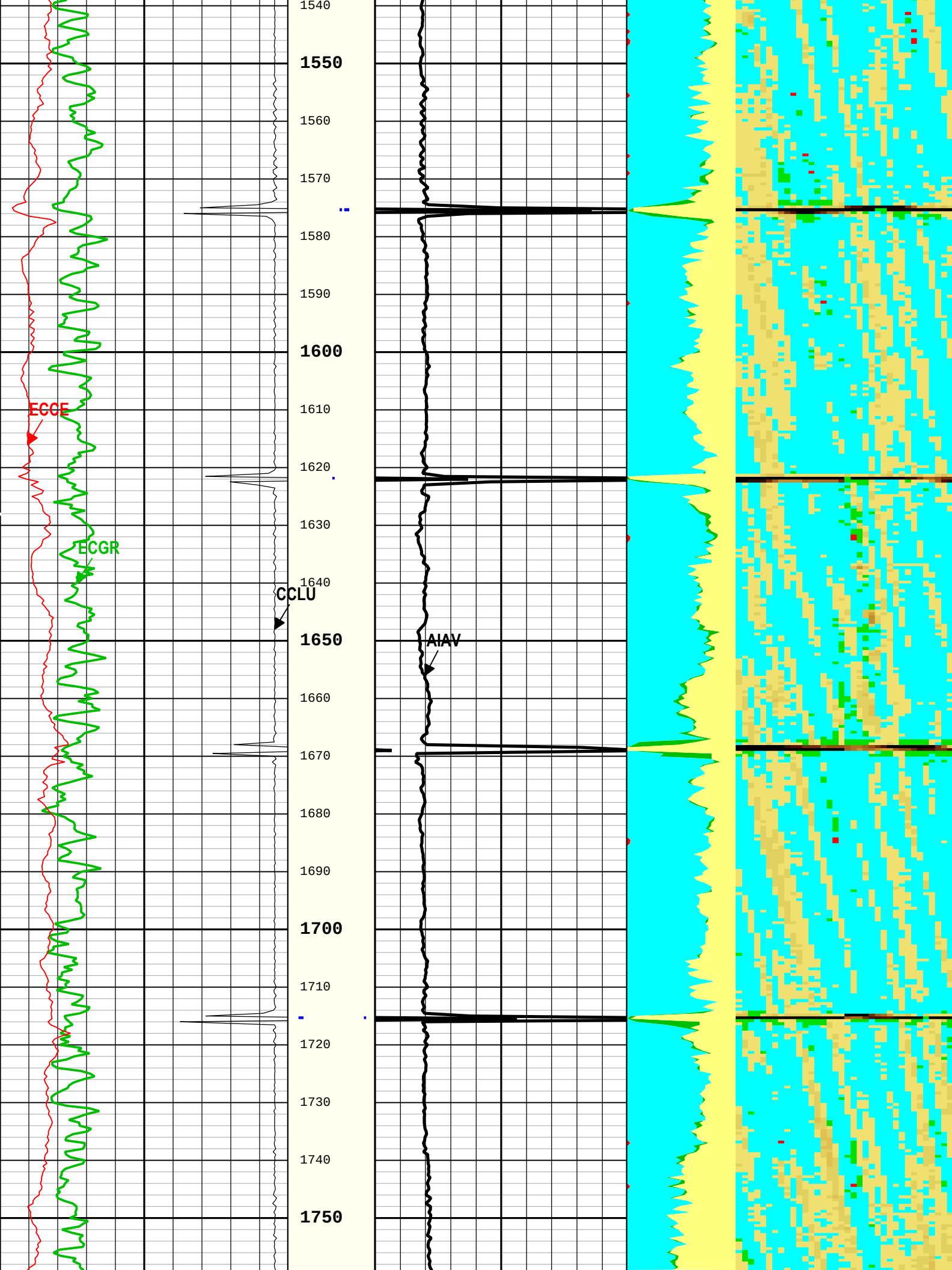

CCLU
AIAV
ECCE
440
450
460
470
480
490
500
510
520
530
540
550
560
570
580
590
600
610
620
630
640
650

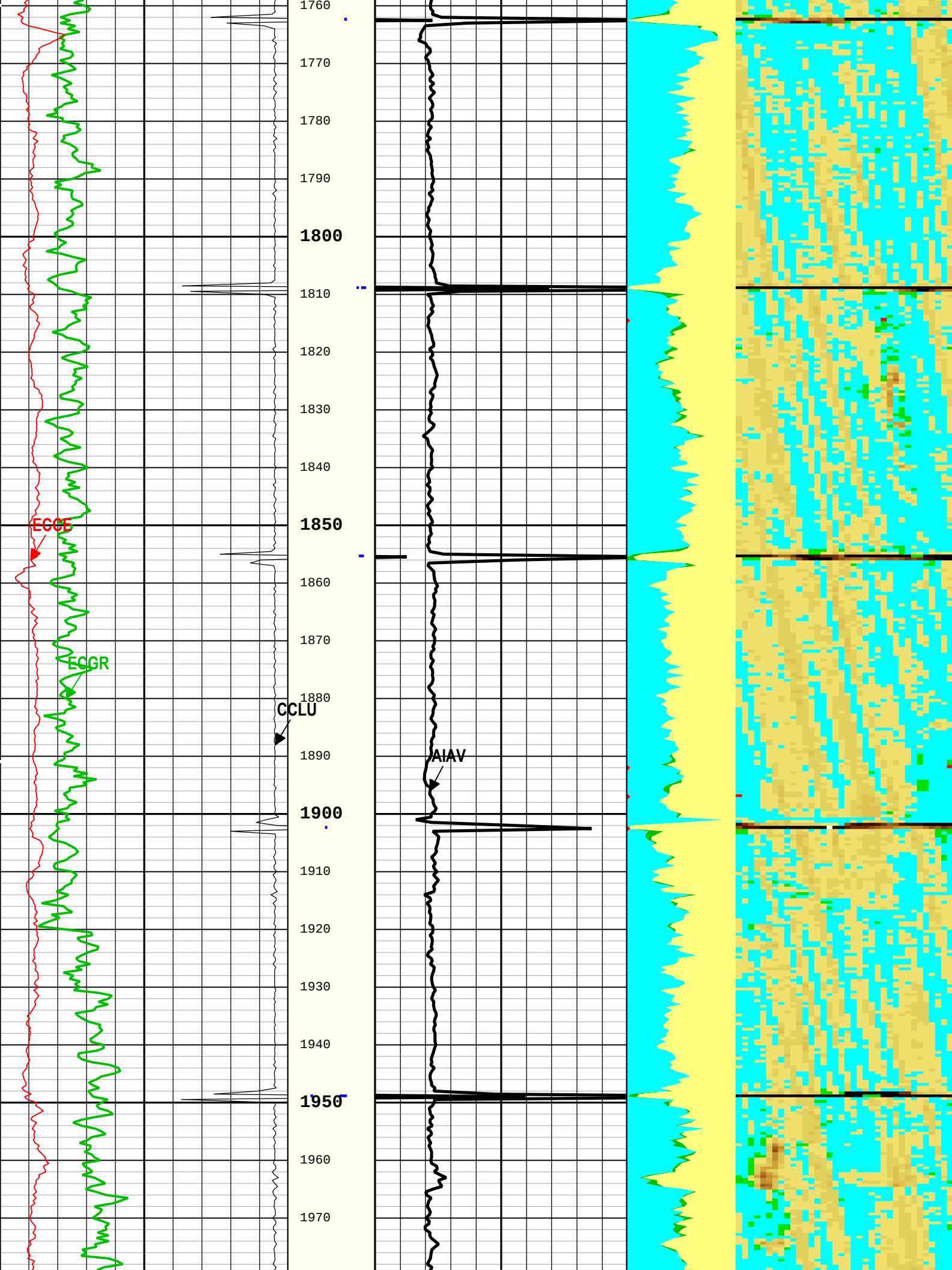

ECGR
CCLU
AIAV
660
670
680
690
700
710
720
730
740
750
760
770
780
790
800
810
820
830
840
850
860
870

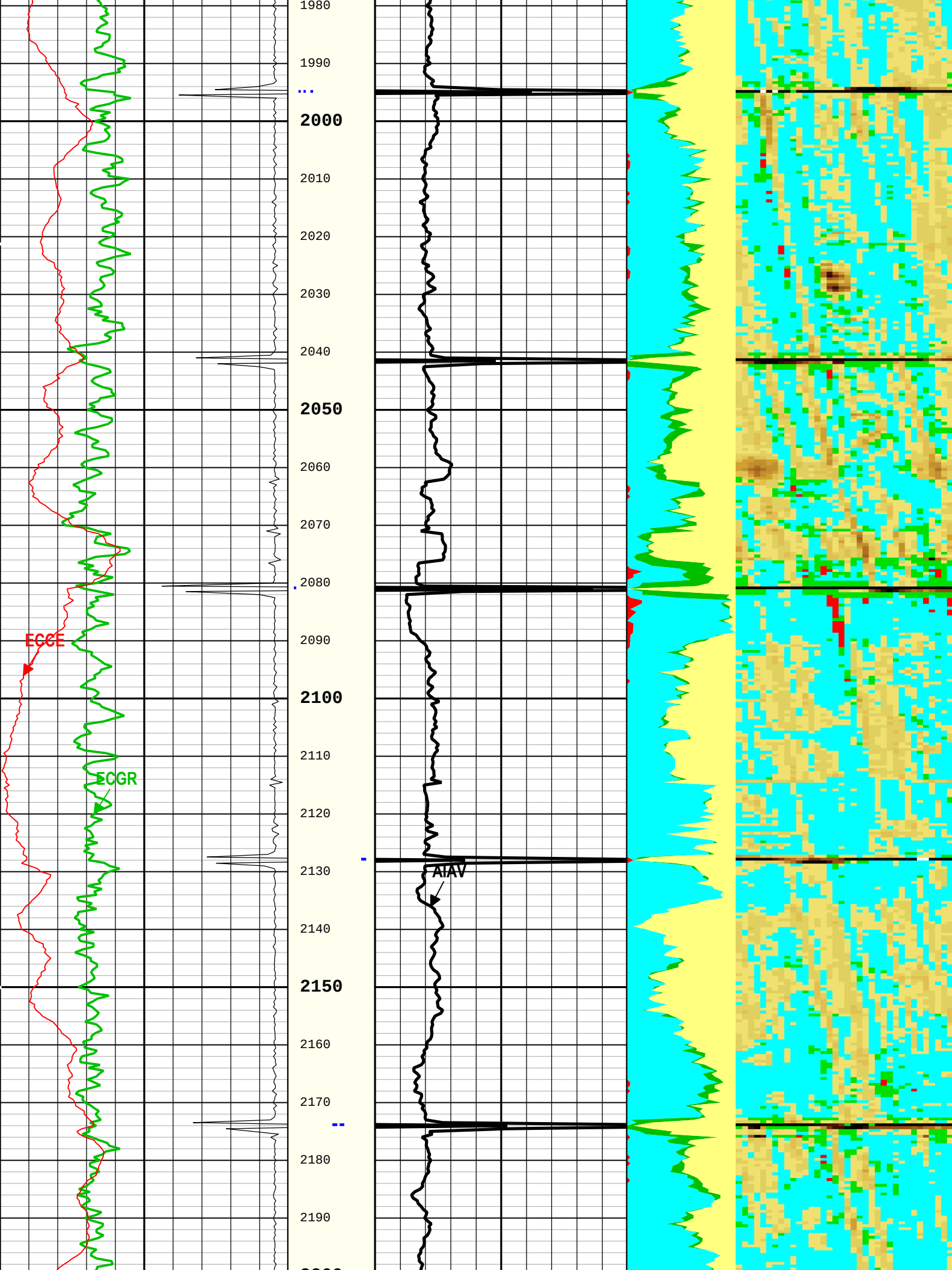

ECCE
ECGR
CCLU
AIAV
880
890
900
910
920
930
940
950
960
970
980
990
1000
1010
1020
1030
1040
1050
1060
1070
1080
1090

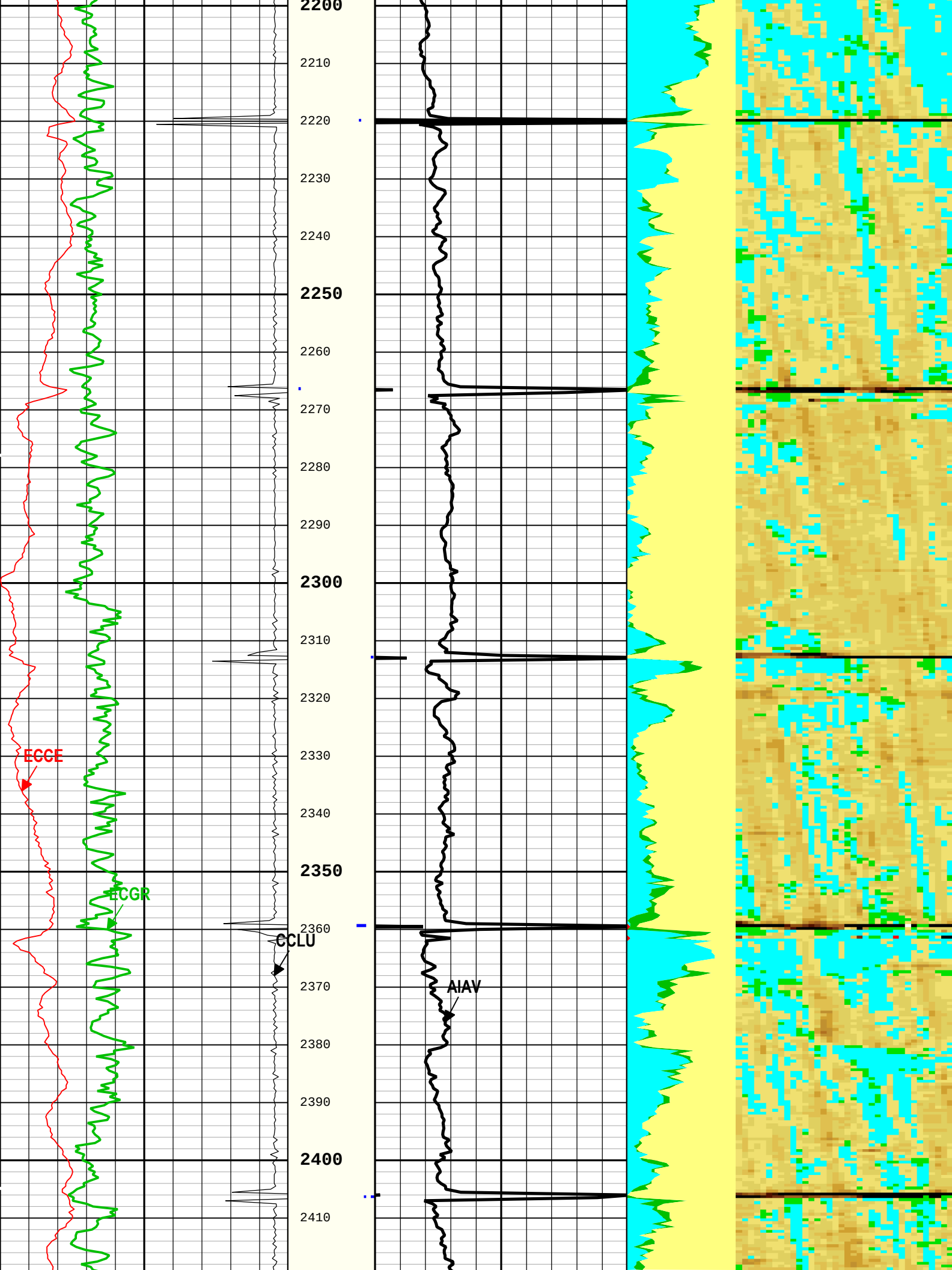

ECCE
ECGR
CCLU
AIAV
1100
1110
1120
1130
1140
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1270
1280
1290
1300
1310

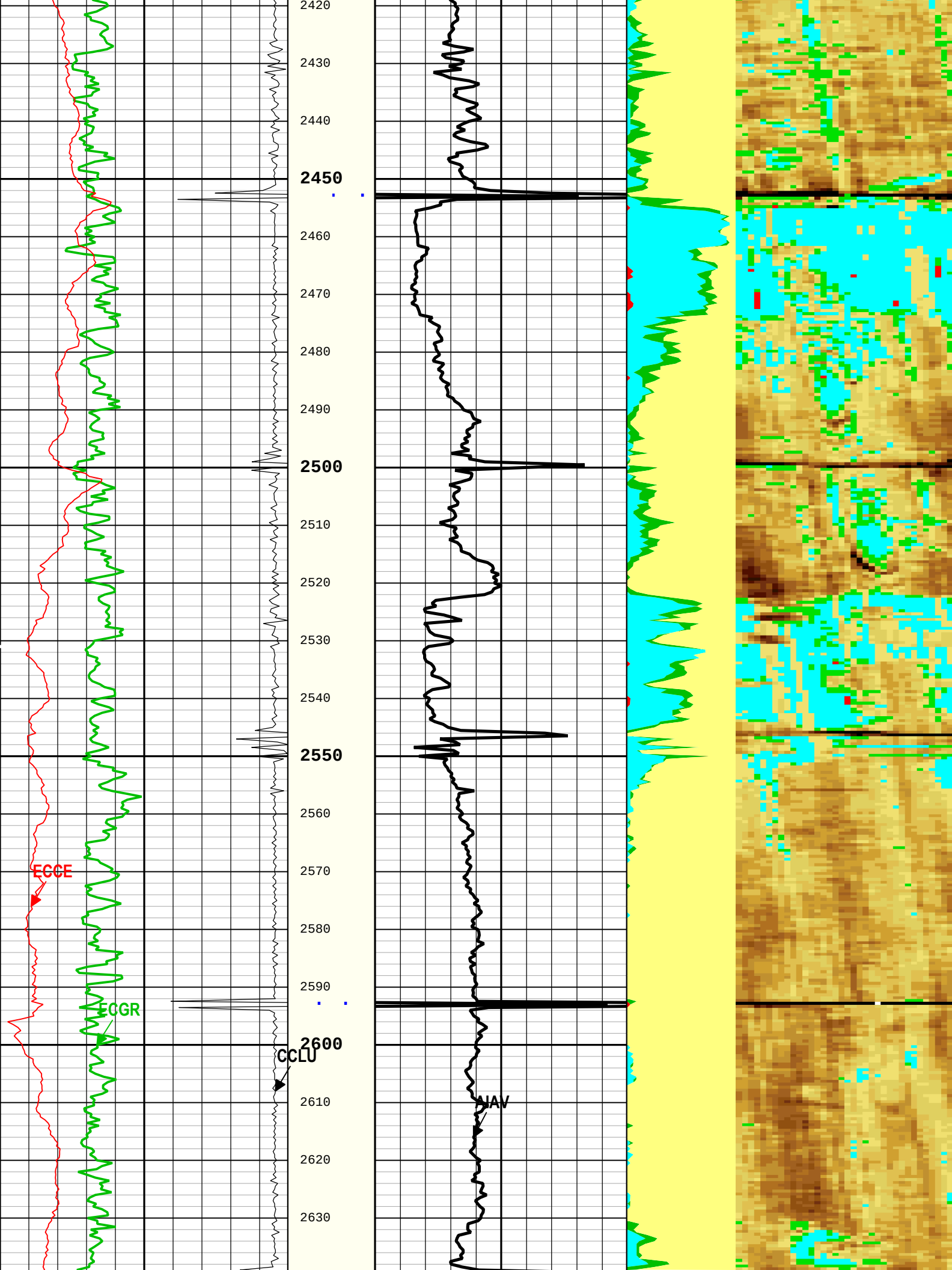

ECCE
SCGR
CCLU
AIAV
1320
1330
1340
1350
1360
1370
1380
1390
1400
1410
1420
1430
1440
1450
1460
1470
1480
1490
1500
1510
1520
1530

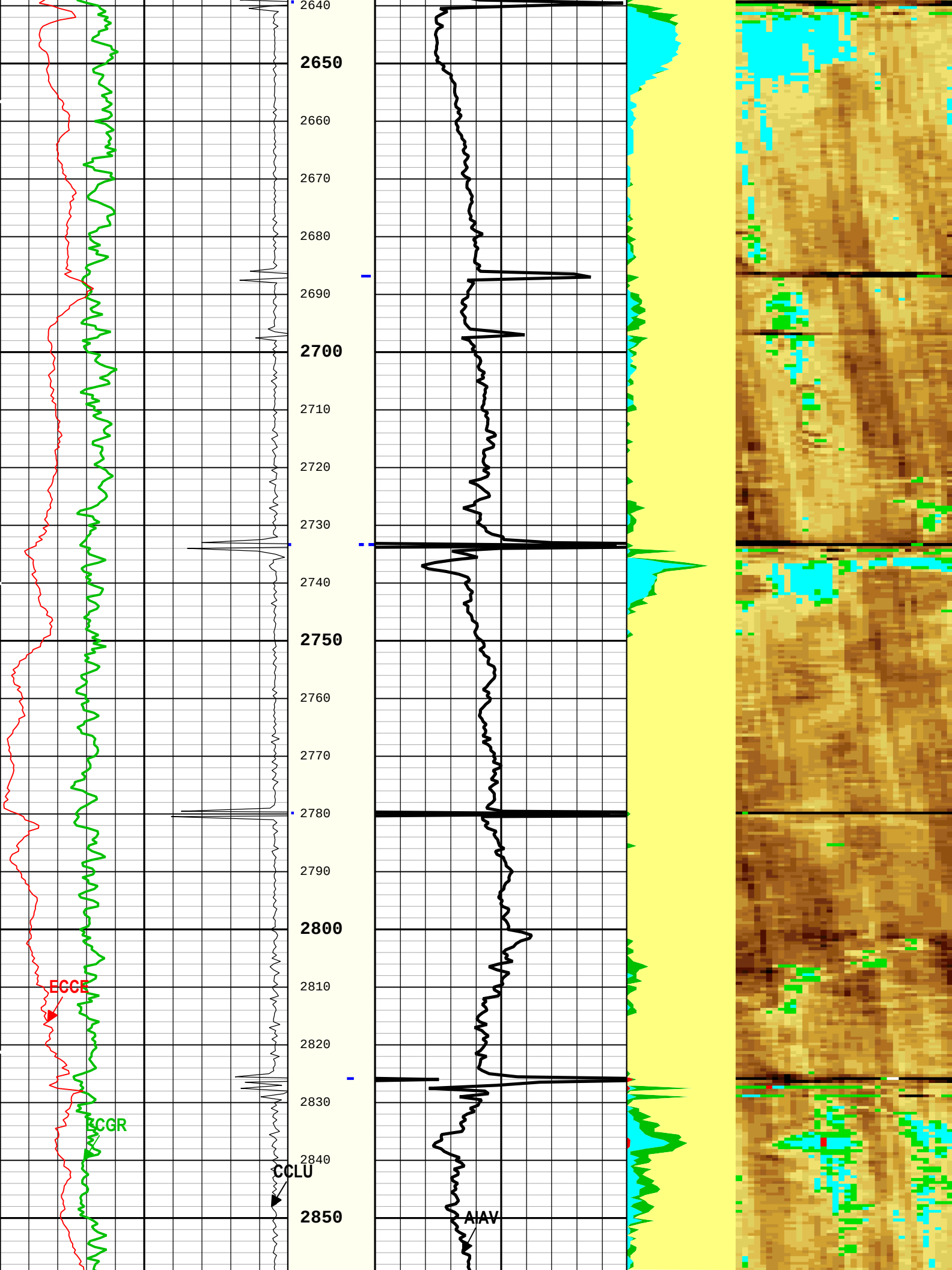

1540
1550
1560
1570
1580
1590
1600
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
ECCE
ECGR
CCLU
AIAV

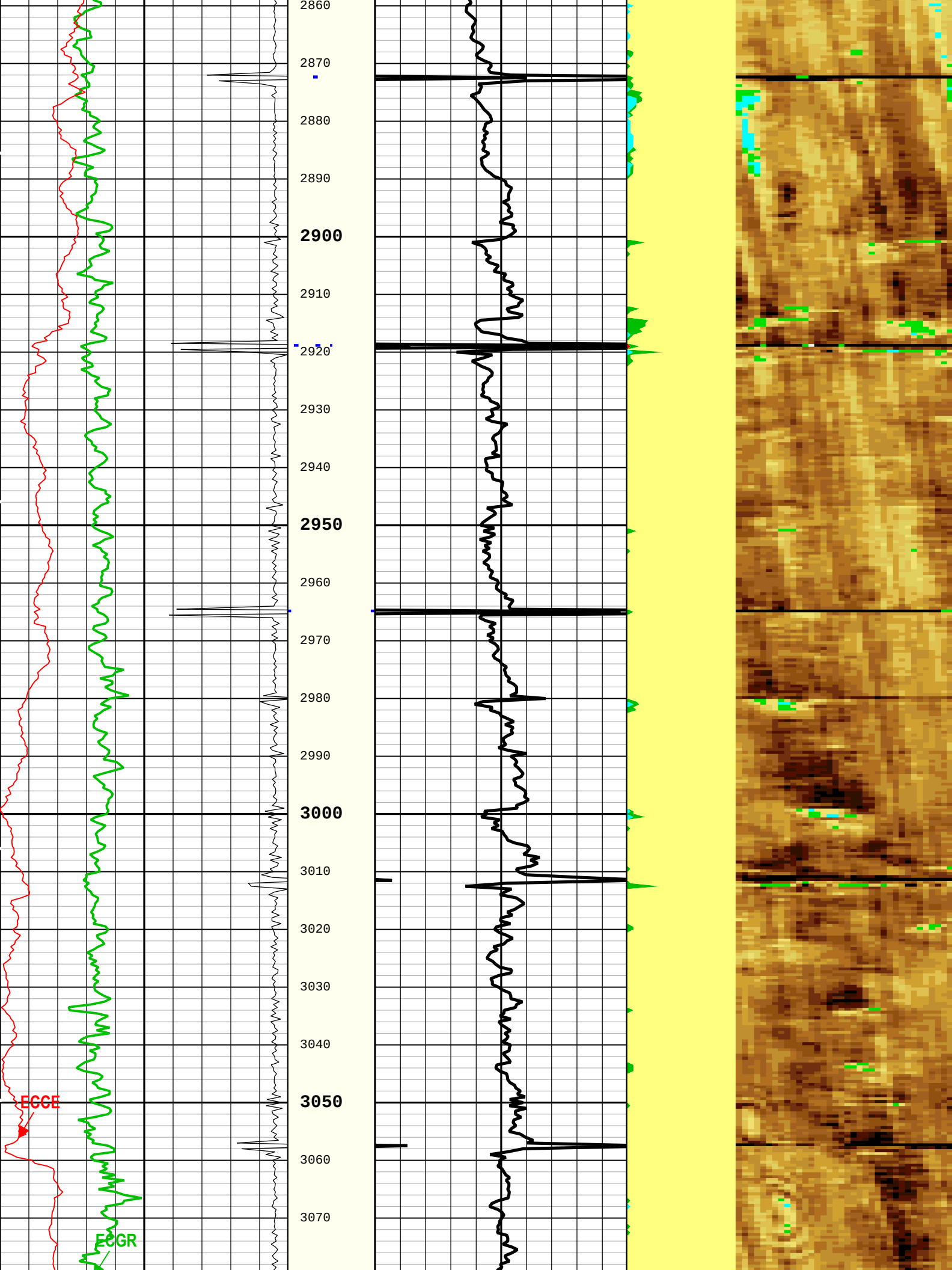

ECGL
ECGR
CCLU
AIAV
1760
1770
1780
1790
1800
1810
1820
1830
1840
1850
1860
1870
1880
1890
1900
1910
1920
1930
1940
1950
1960
1970

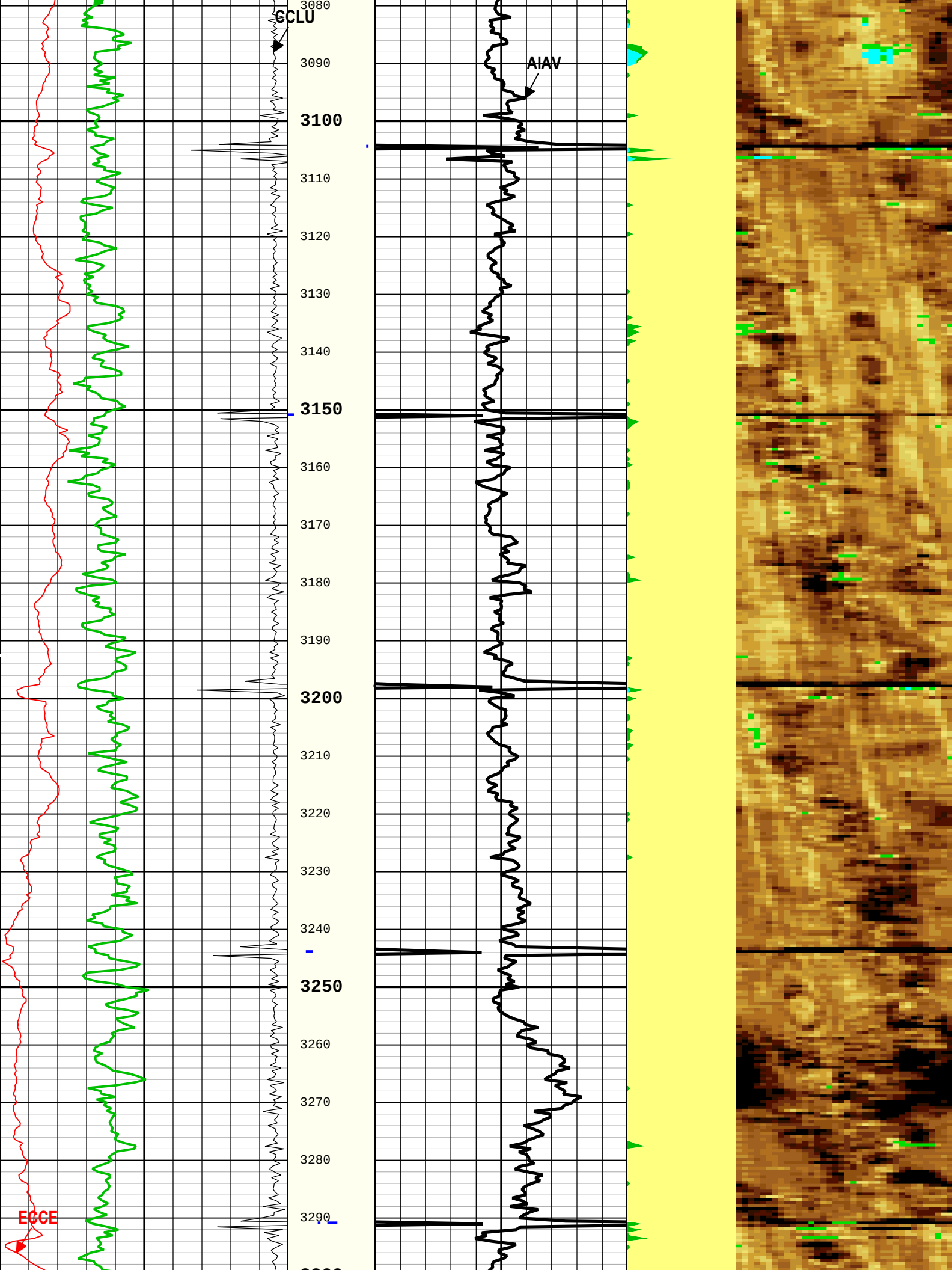

1980
1990
2000
2010
2020
2030
2040
2050
2060
2070
2080
2090
2100
2110
2120
2130
2140
2150
2160
2170
2180
2190
ECCE
ECGR
AIAV

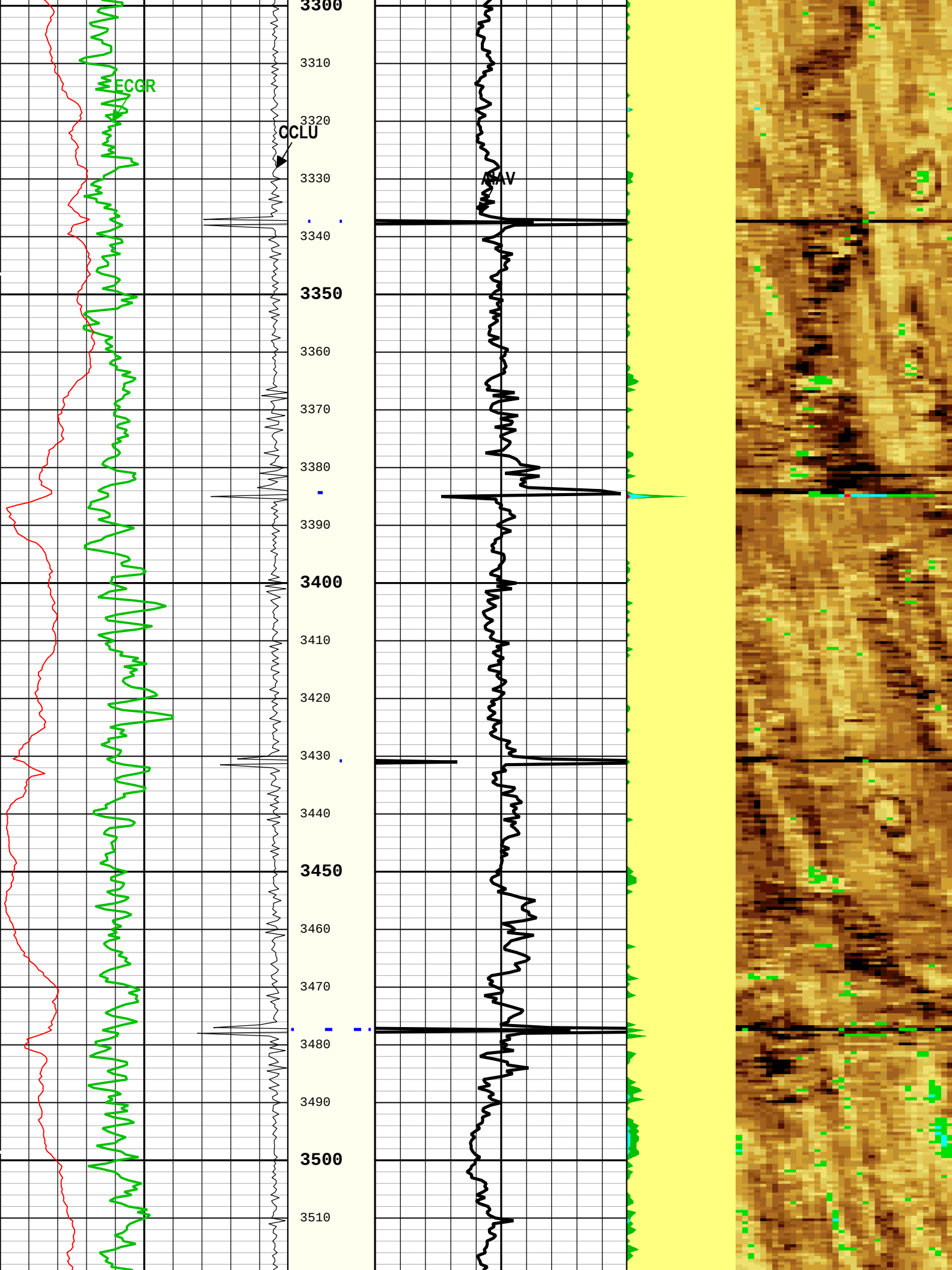

2200
2210
2220
2230
2240
2250
2260
2270
2280
2290
2300
2310
2320
2330
2340
2350
2360
2370
2380
2390
2400
2410
ECCE
ECGR
CCLU
AIAV

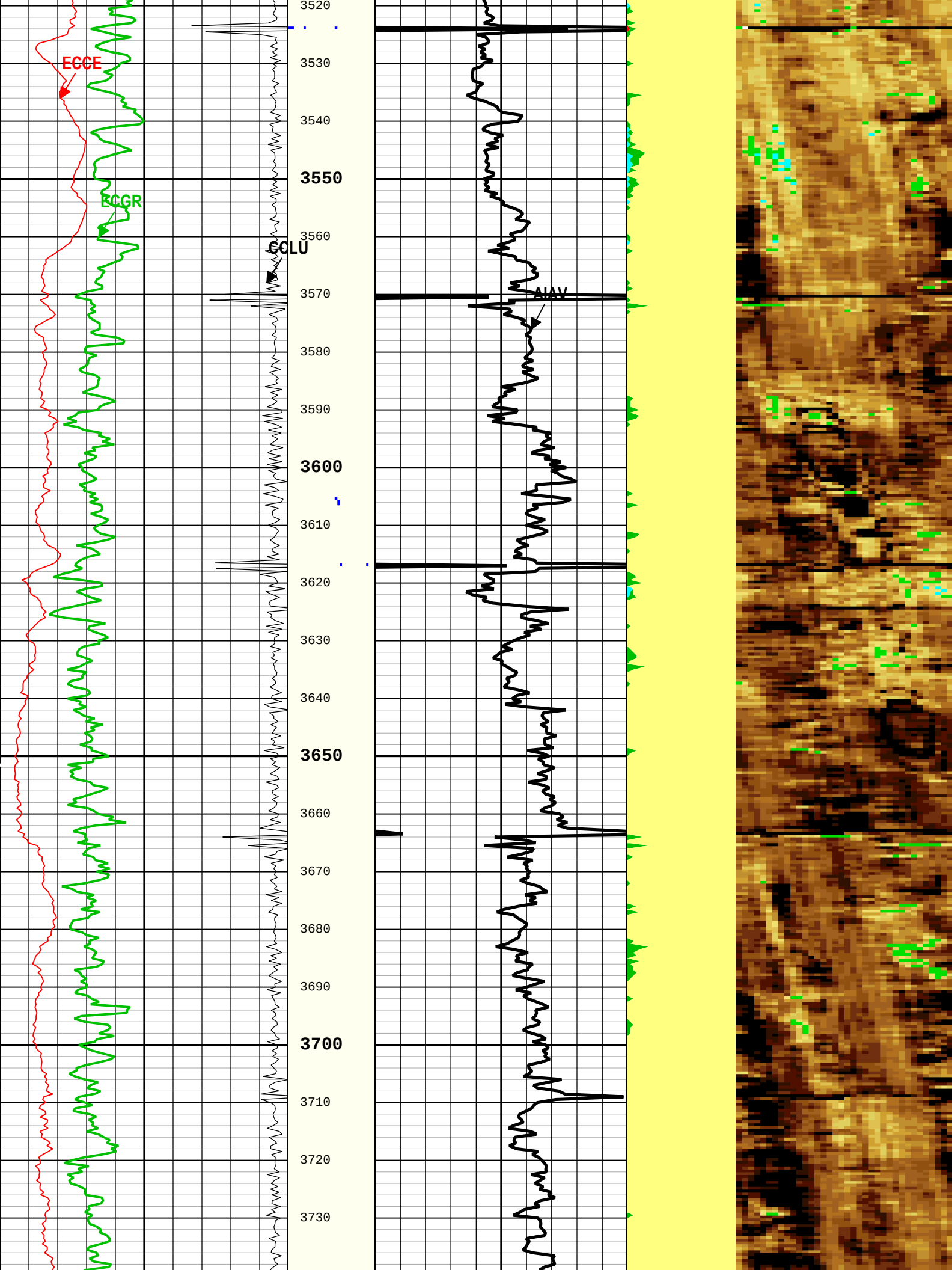

2420
2430
2440
2450
2460
2470
2480
2490
2500
2510
2520
2530
2540
2550
2560
2570
2580
2590
2600
2610
2620
2630
ECCE
ECGR
CCLU
NAV

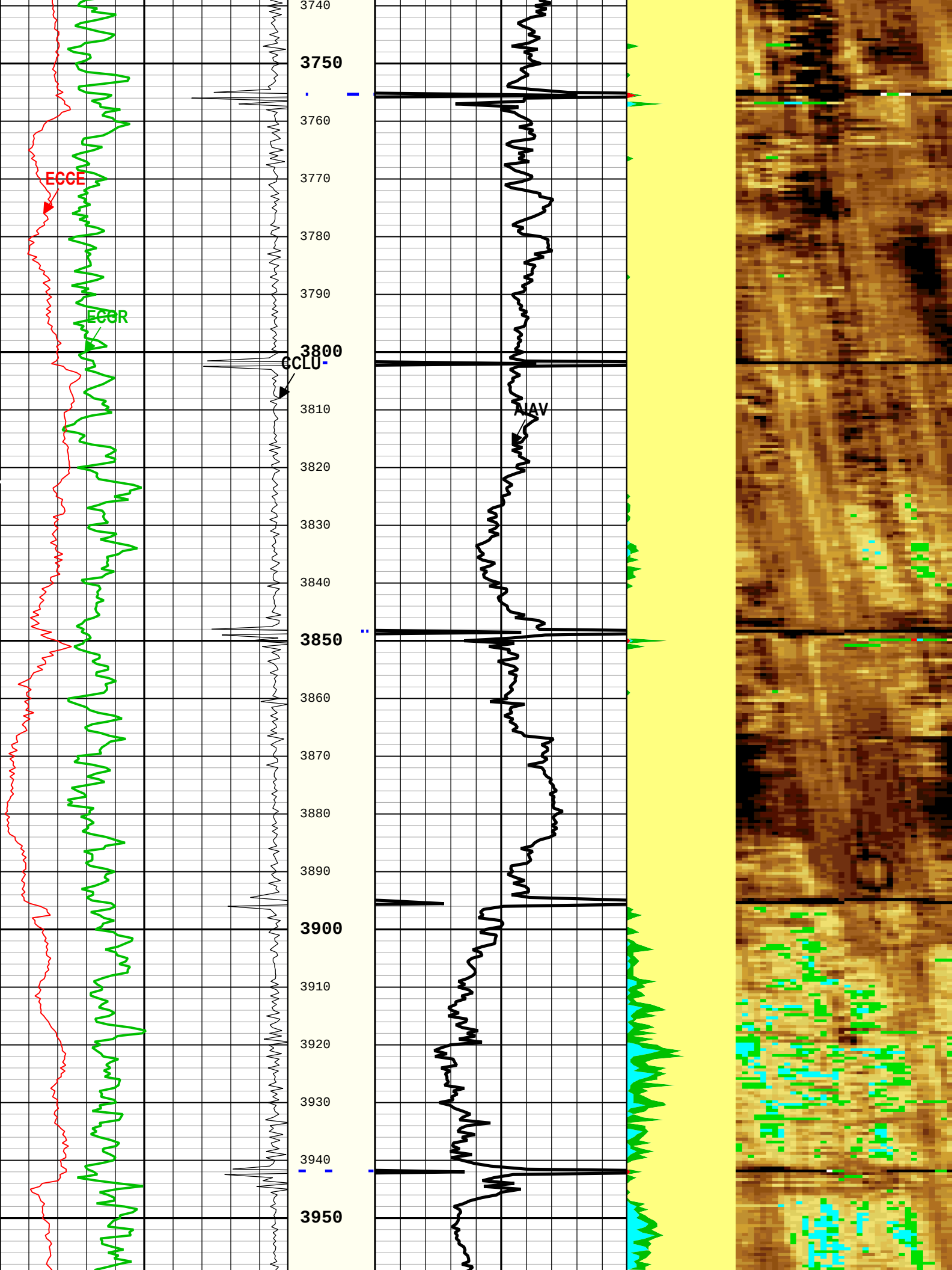

2640
2650
2660
2670
2680
2690
2700
2710
2720
2730
2740
2750
2760
2770
2780
2790
2800
2810
2820
2830
2840
2850
ECCE
CGR
CCLU
AIAV

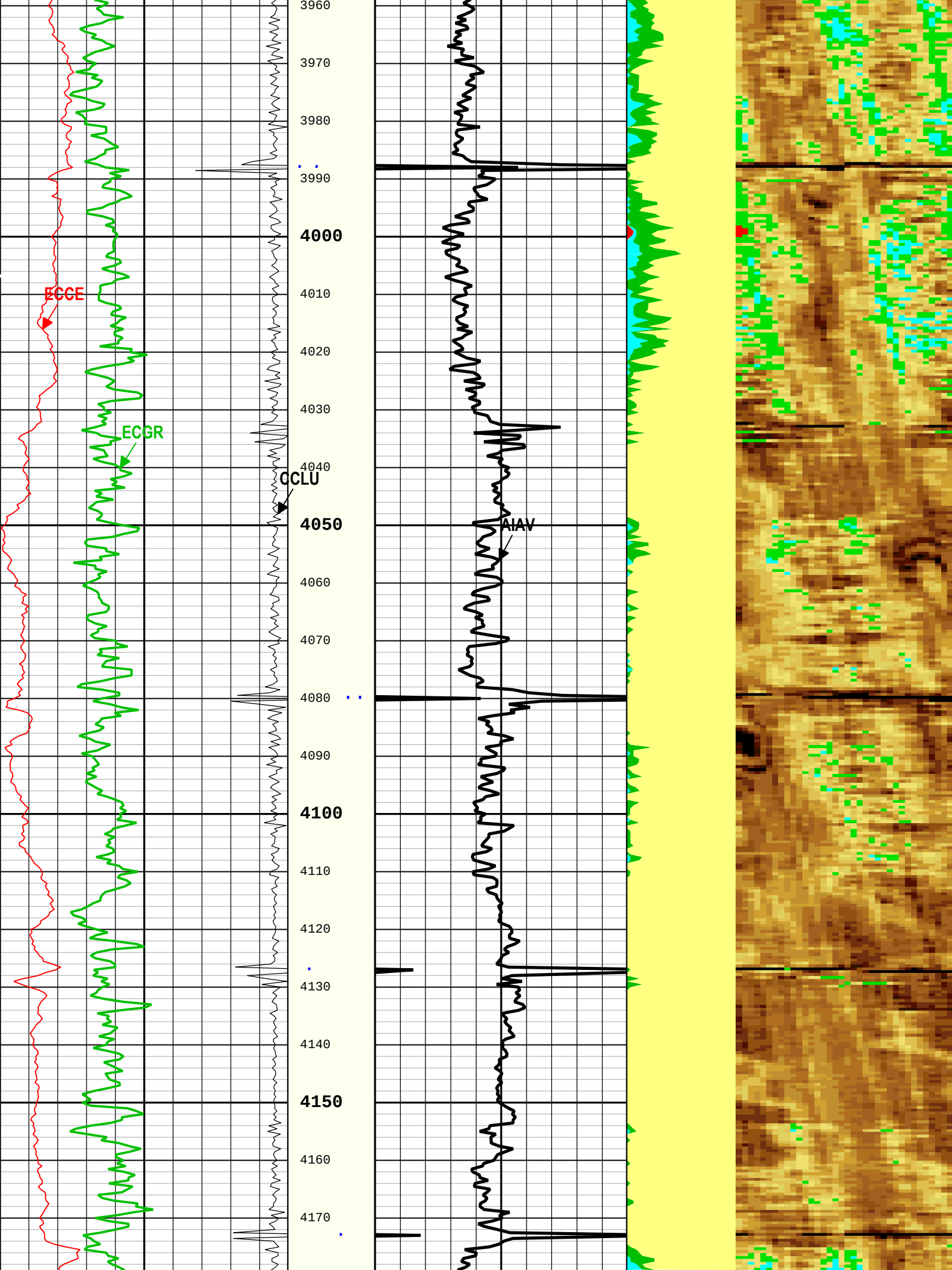

2860
2870
2880
2890
2900
2910
2920
2930
2940
2950
2960
2970
2980
2990
3000
3010
3020
3030
3040
3050
3060
3070
ECCE
ECGR

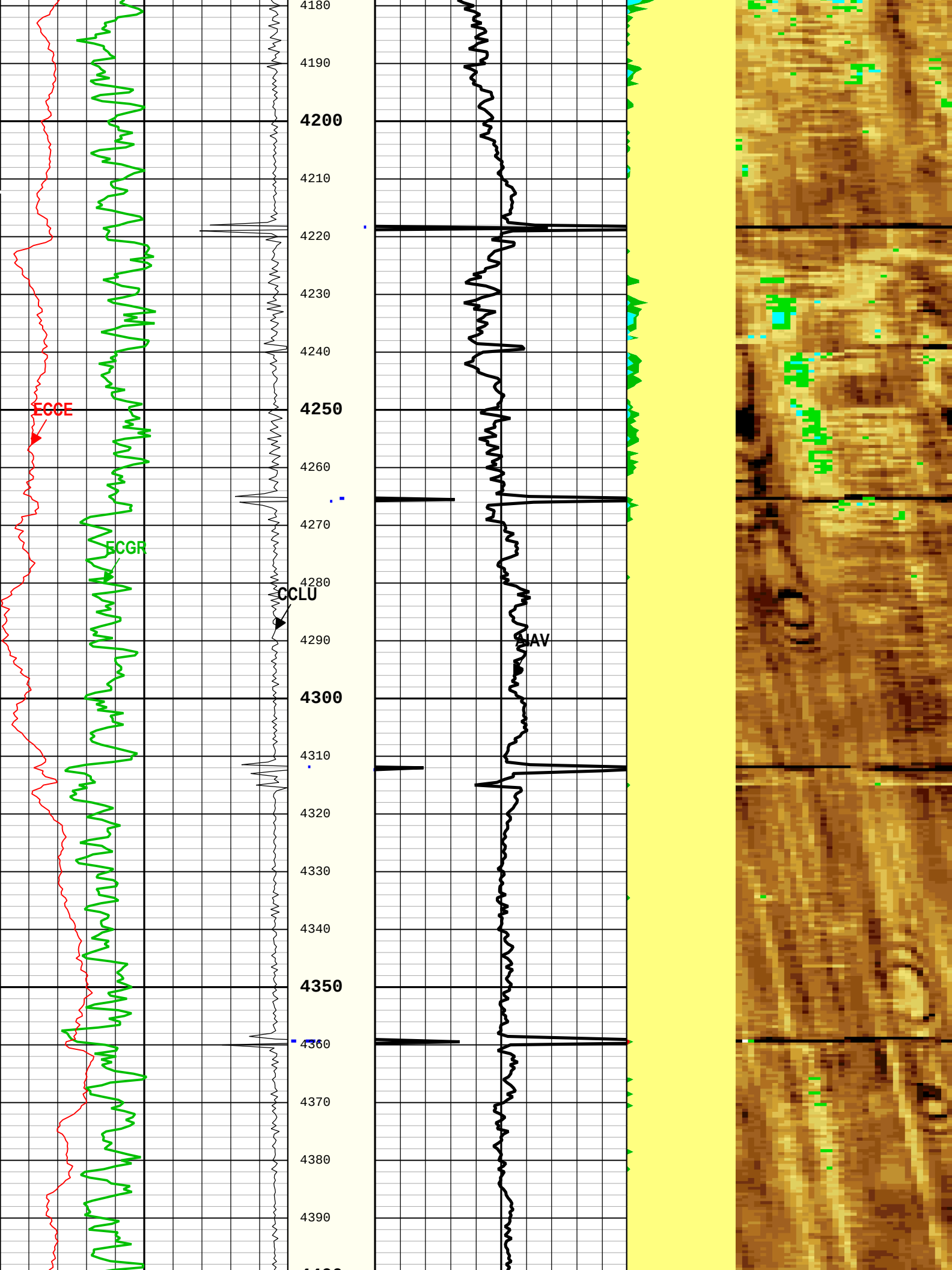

CCLU
AIAV
ECCE
3080
3090
3100
3110
3120
3130
3140
3150
3160
3170
3180
3190
3200
3210
3220
3230
3240
3250
3260
3270
3280
3290

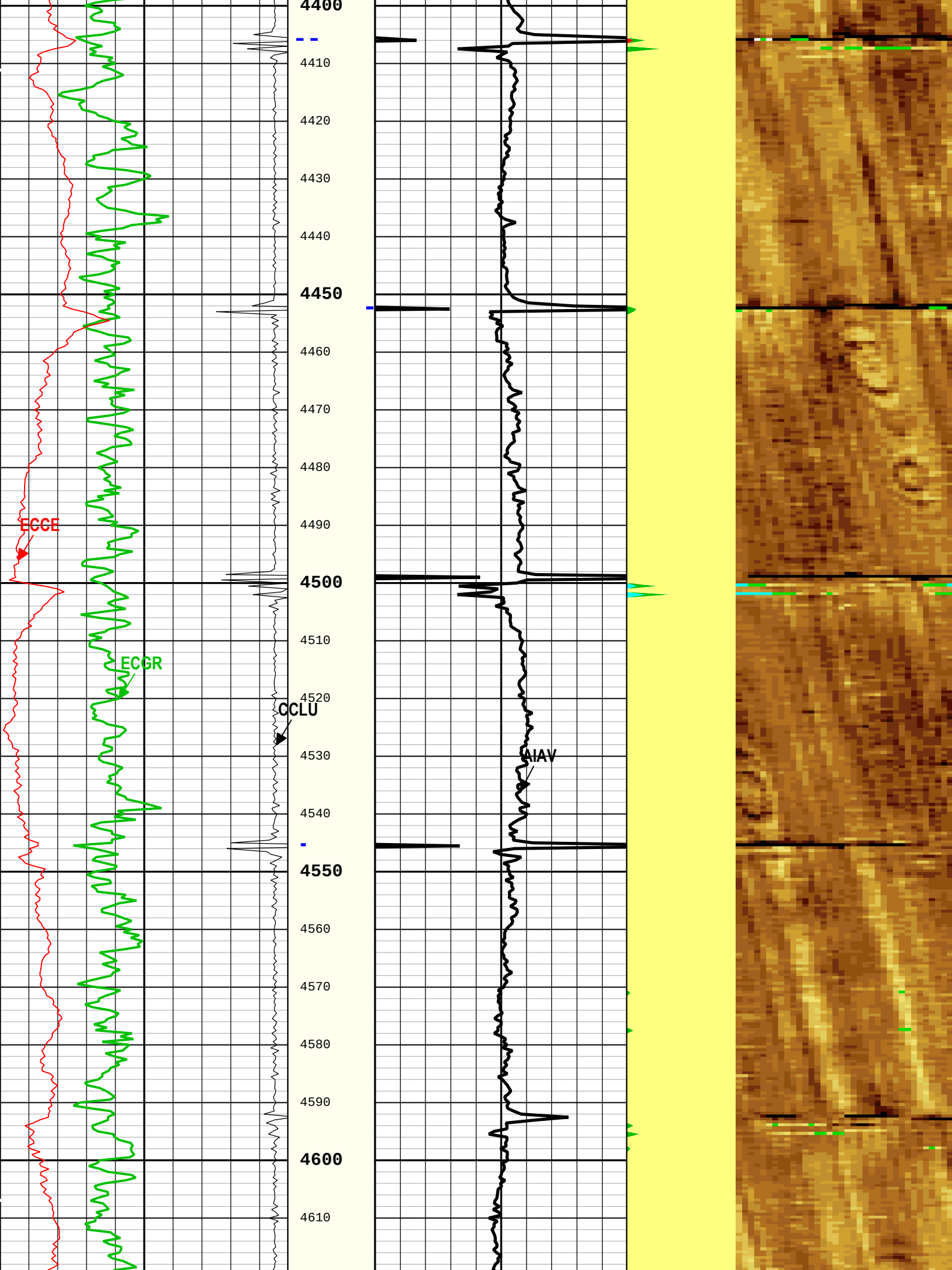

ECGR
CCLU
AAV
3300
3310
3320
3330
3340
3350
3360
3370
3380
3390
3400
3410
3420
3430
3440
3450
3460
3470
3480
3490
3500
3510

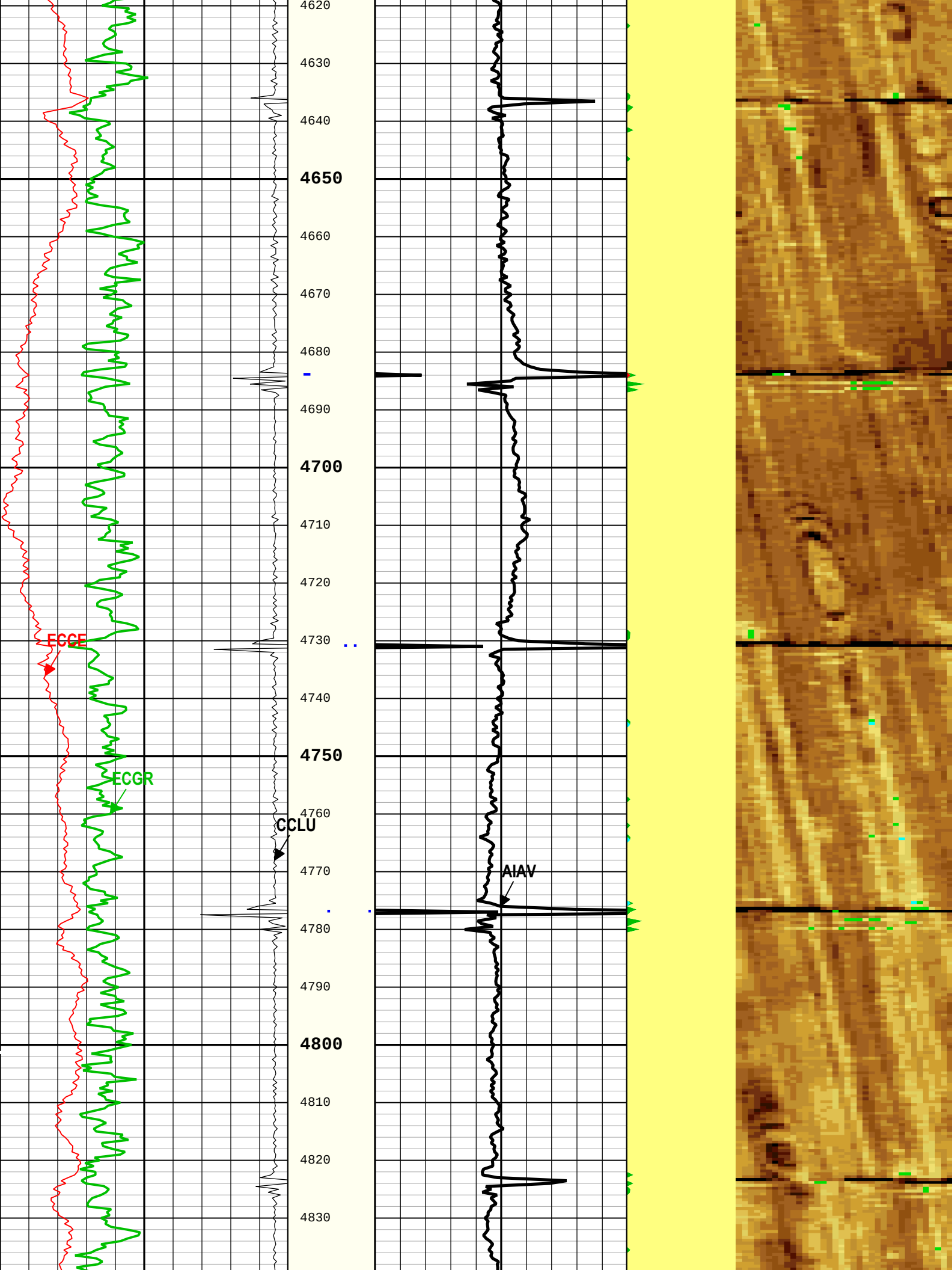

ECCE
ECGR
CCLU
AIAV
3520
3530
3540
3550
3560
3570
3580
3590
3600
3610
3620
3630
3640
3650
3660
3670
3680
3690
3700
3710
3720
3730

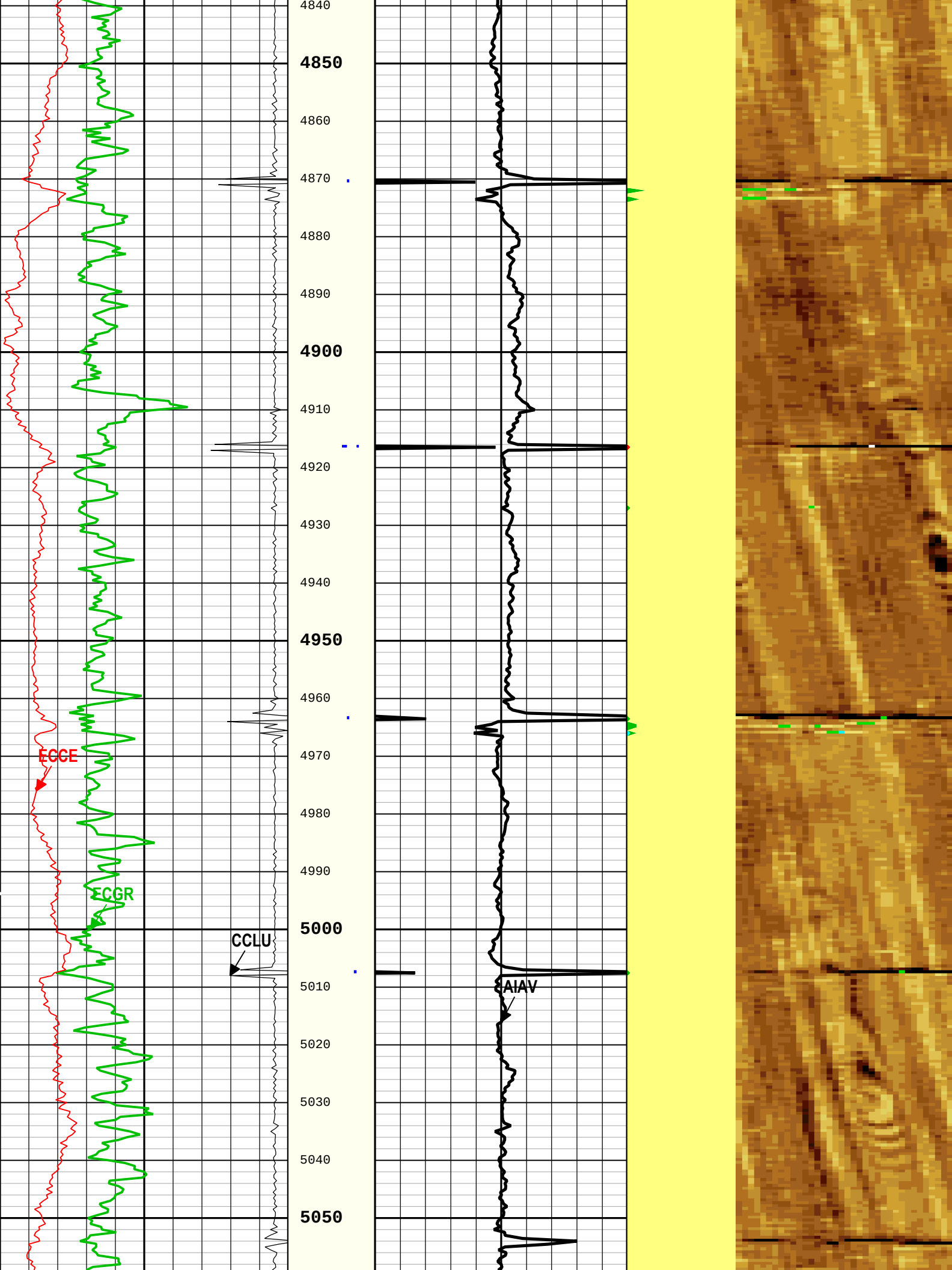

ECCE
ECGR
CCLU
TIAV
3740
3750
3760
3770
3780
3790
3800
3810
3820
3830
3840
3850
3860
3870
3880
3890
3900
3910
3920
3930
3940
3950

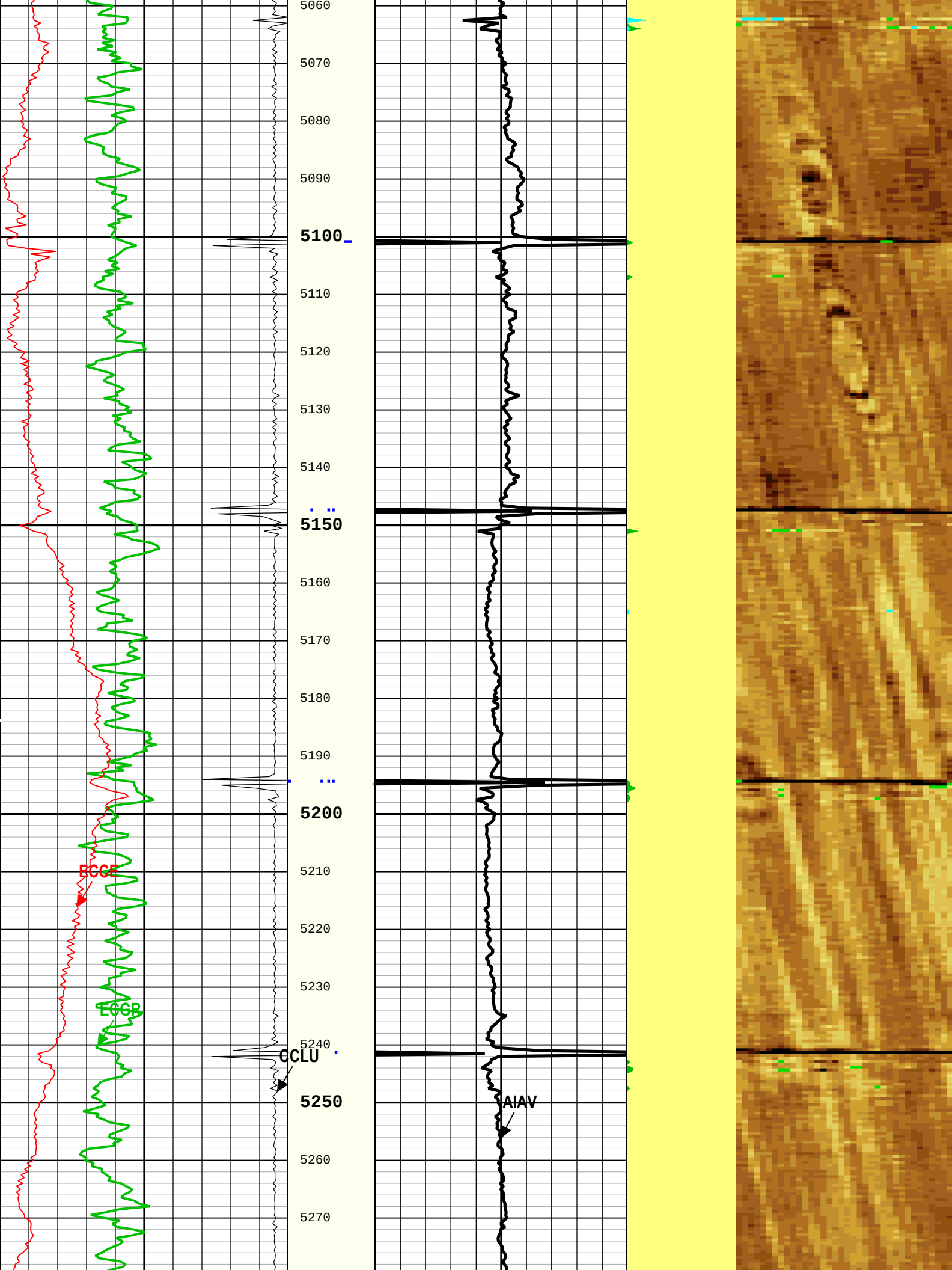

3960
3970
3980
3990
4000
4010
4020
4030
4040
4050
4060
4070
4080
4090
4100
4110
4120
4130
4140
4150
4160
4170
ECCE
ECGR
CCLU
AIAV

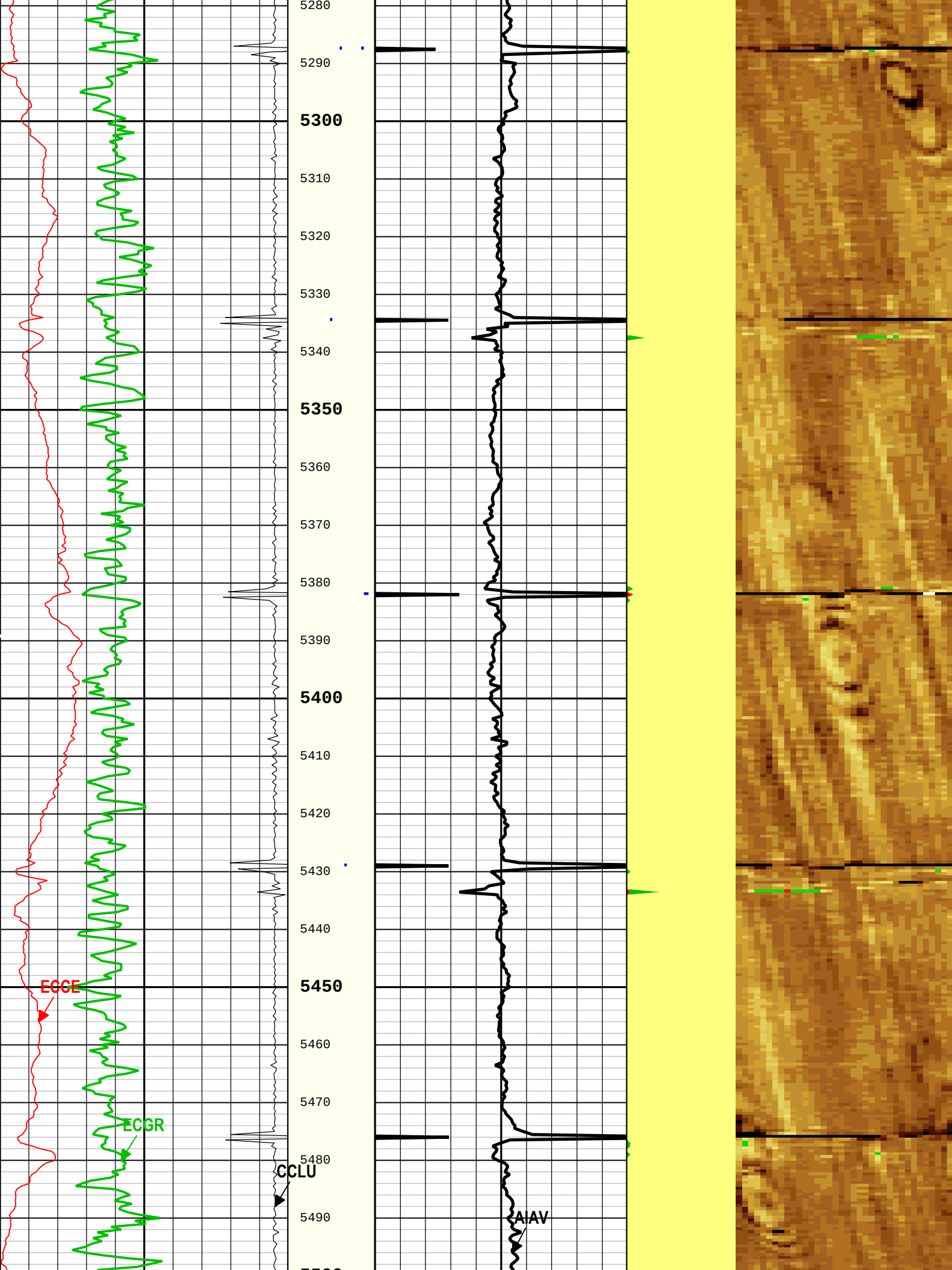

4180
4190
4200
4210
4220
4230
4240
4250
4260
4270
4280
4290
4300
4310
4320
4330
4340
4350
4360
4370
4380
4390
ECGE
ECGR
CCLU
HAV

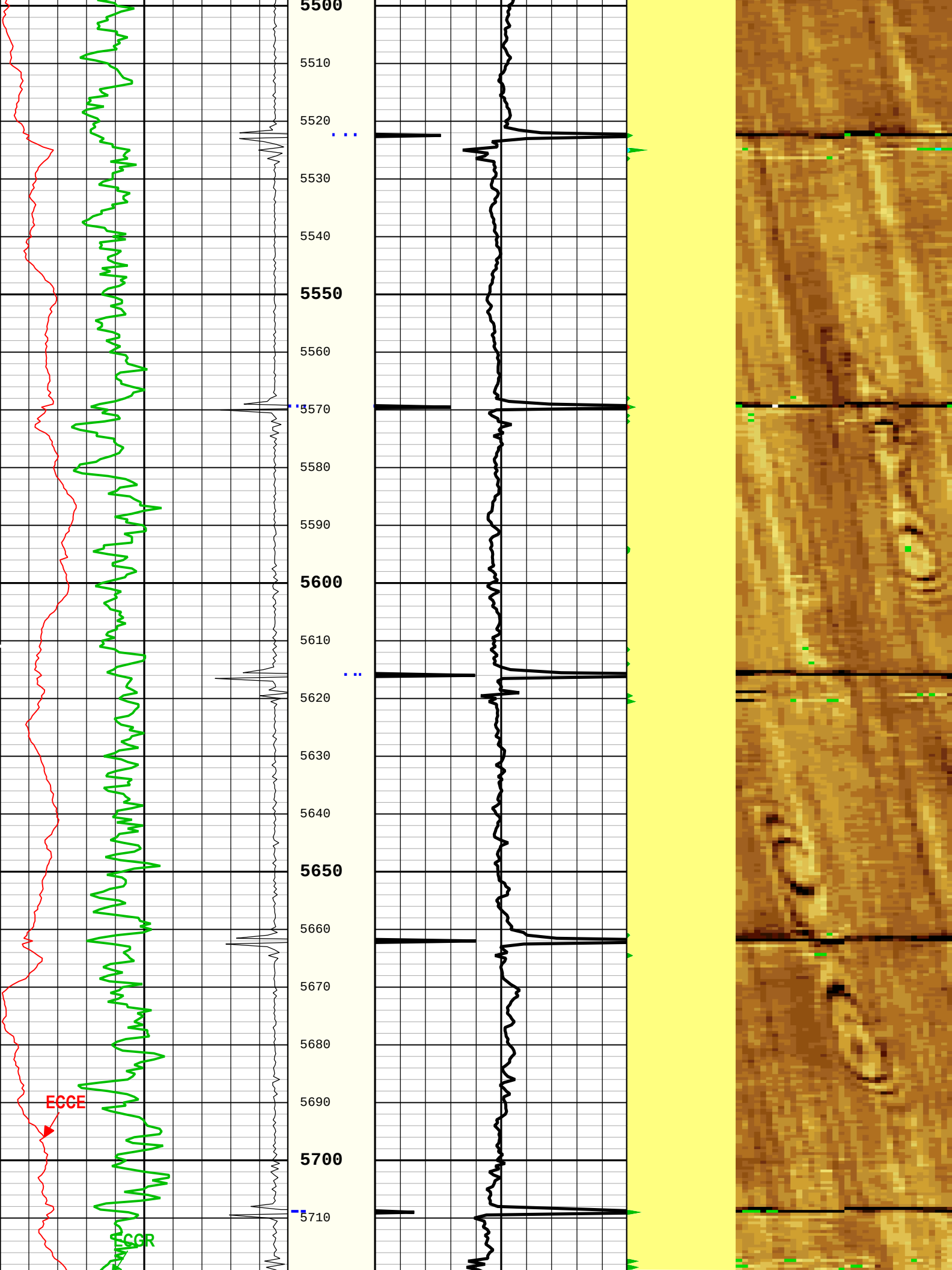

4400
4410
4420
4430
4440
4450
4460
4470
4480
4490
4500
4510
4520
4530
4540
4550
4560
4570
4580
4590
4600
4610
ECCE
ECGR
CCLU
AIAV

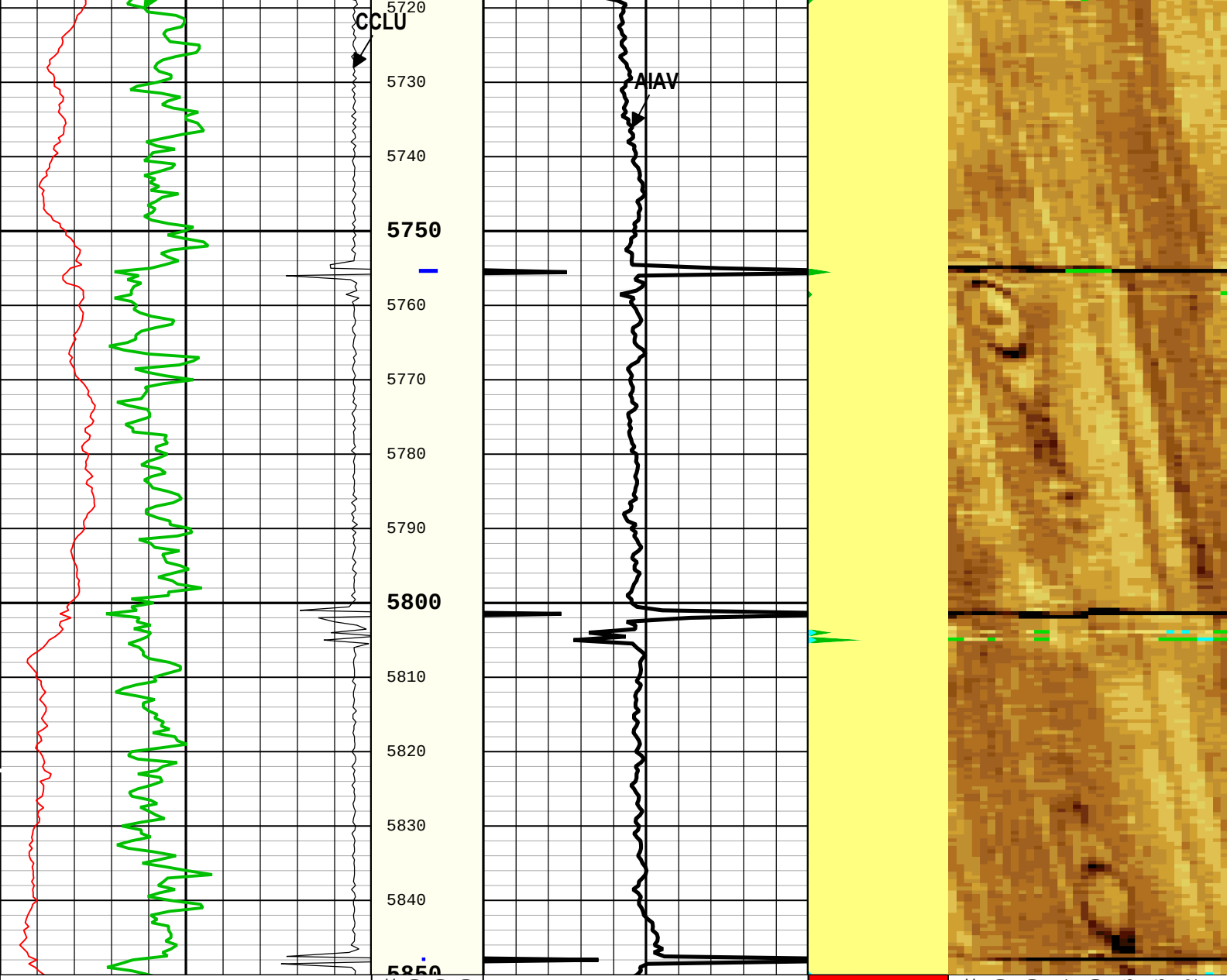

4620
4630
4640
4650
4660
4670
4680
4690
4700
4710
4720
4730
4740
4750
4760
4770
4780
4790
4800
4810
4820
4830
ECCE
ECGR
CCLU
AIAV


4840
4850
4860
4870
4880
4890
4900
4910
4920
4930
4940
4950
4960
4970
4980
4990
5000
5010
5020
5030
5040
5050
ECCE
ECGR
CCLU
AIAV


5060
5070
5080
5090
5100
5110
5120
5130
5140
5150
5160
5170
5180
5190
5200
5210
5220
5230
5240
5250
5260
5270
ECCE
ECGP
CCLU
AIAV


5280
5290
5300
5310
5320
5330
5340
5350
5360
5370
5380
5390
5400
5410
5420
5430
5440
5450
5460
5470
5480
5490
ECCE
ECGR
CCLU
AIAV


5500
5510
5520
5530
5540
5550
5560
5570
5580
5590
5600
5610
5620
5630
5640
5650
5660
5670
5680
5690
5700
5710
ECCE
CGR



TIME_1900 - Time Marked every 60.00 (s)

Description: Format: Log (DJ Basin Ultrasonic Cement Summary Report) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 18-Sep-2017 02:55:02

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
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	16555.5	ft
CDEN	Cement Density	SGT-N	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
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.15	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0.1	Mrayl
UFGDE	Fiberglass Density	USIT-E	16.27	lbm/gal
UFGPS	Fiberglass Processing Selection	USIT-E	No	
UFGVL	Fiberglass Velocity	USIT-E	9678.48	ft/s
USI_FSOD	USIT USI Fluid Slowness Fits Casing Outer Diameter	USIT-E	0_OFF	
USI_FVEL_SEL	USI Fluid Velocity Selection	USIT-E	Automatic	
USI_ZMUD_SEL	USI Mud Impedance Selection	USIT-E	FreePipe Norm.	
ZMUD	Acoustic Impedance of Mud	Borehole	1.48	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	26	86	110
BS	13.5	110	1932
BS	8.5	1932	5850

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	18	dB
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
TMUC	Type of Mud	USIT-E	BRI	
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
USFR	Ultrasonic Sampling Frequency	USIT-E	500000	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 6.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	7000	ft
WINB	Window Begin Time	USIT-E	Time Zoned	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	45	18-Sep-2017 00:24:43	18-Sep-2017 00:25:12	6452.27	6449.82
EMXV	55	18-Sep-2017 00:25:12	18-Sep-2017 00:42:03	6449.82	6402.26

EMXV	65	18-Sep-2017 00:42:03	18-Sep-2017 00:44:07	6402.26	6170.35
EMXV	70	18-Sep-2017 00:44:07	18-Sep-2017 01:33:32	6170.35	76.03
WINB	31.88	18-Sep-2017 00:24:43	18-Sep-2017 01:30:14	6452.27	160.15
WINB	35.04	18-Sep-2017 01:30:14	18-Sep-2017 01:30:33	160.15	149.94
WINB	41.18	18-Sep-2017 01:30:33	18-Sep-2017 01:33:32	149.94	76.03
WINE	71.88	18-Sep-2017 00:24:43	18-Sep-2017 00:24:57	6452.27	6449.85
WINE	79.55	18-Sep-2017 00:24:57	18-Sep-2017 00:24:59	6449.85	6449.82
WINE	75.71	18-Sep-2017 00:24:59	18-Sep-2017 00:42:09	6449.82	6394.72
WINE	68.81	18-Sep-2017 00:42:09	18-Sep-2017 00:46:03	6394.72	5811.04
WINE	69.57	18-Sep-2017 00:46:03	18-Sep-2017 01:23:56	5811.04	680.86
WINE	71.88	18-Sep-2017 01:23:56	18-Sep-2017 01:33:32	680.86	76.03

All depth are at tool zero.

ONE

0 PSI Repeat Pass

Software Version

Acquisition System	Version
Maxwell 2017 SP2	7.2.87778.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[2]:Up	Up	1920.29 ft	2533.21 ft	17-Sep-2017 11:51:05 PM	17-Sep-2017 11:55:22 PM	ON	1.28 ft	Yes

All depths are referenced to toolstring zero

Log

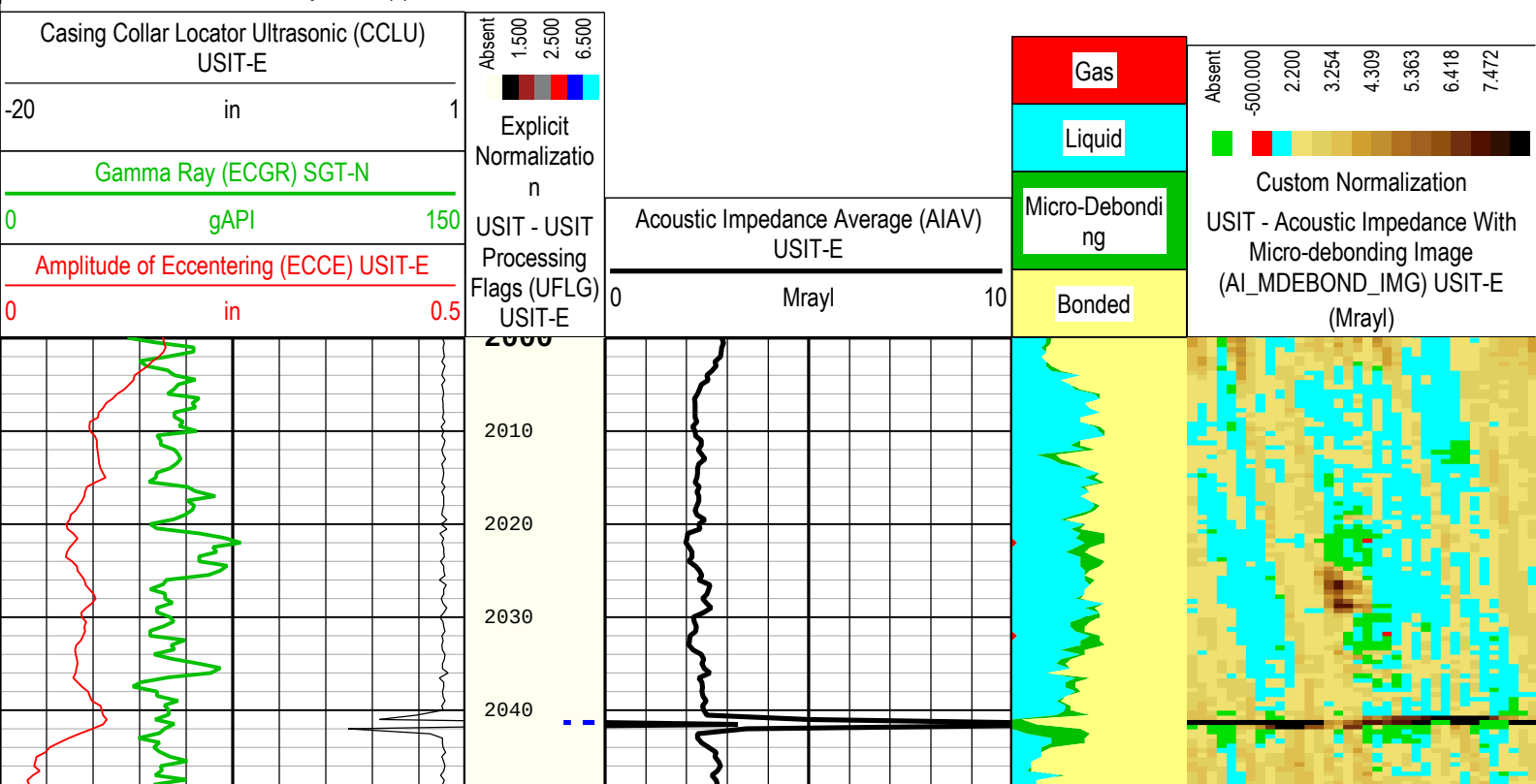
Company:Noble Energy INC Well:Wells Ranch BB11-658

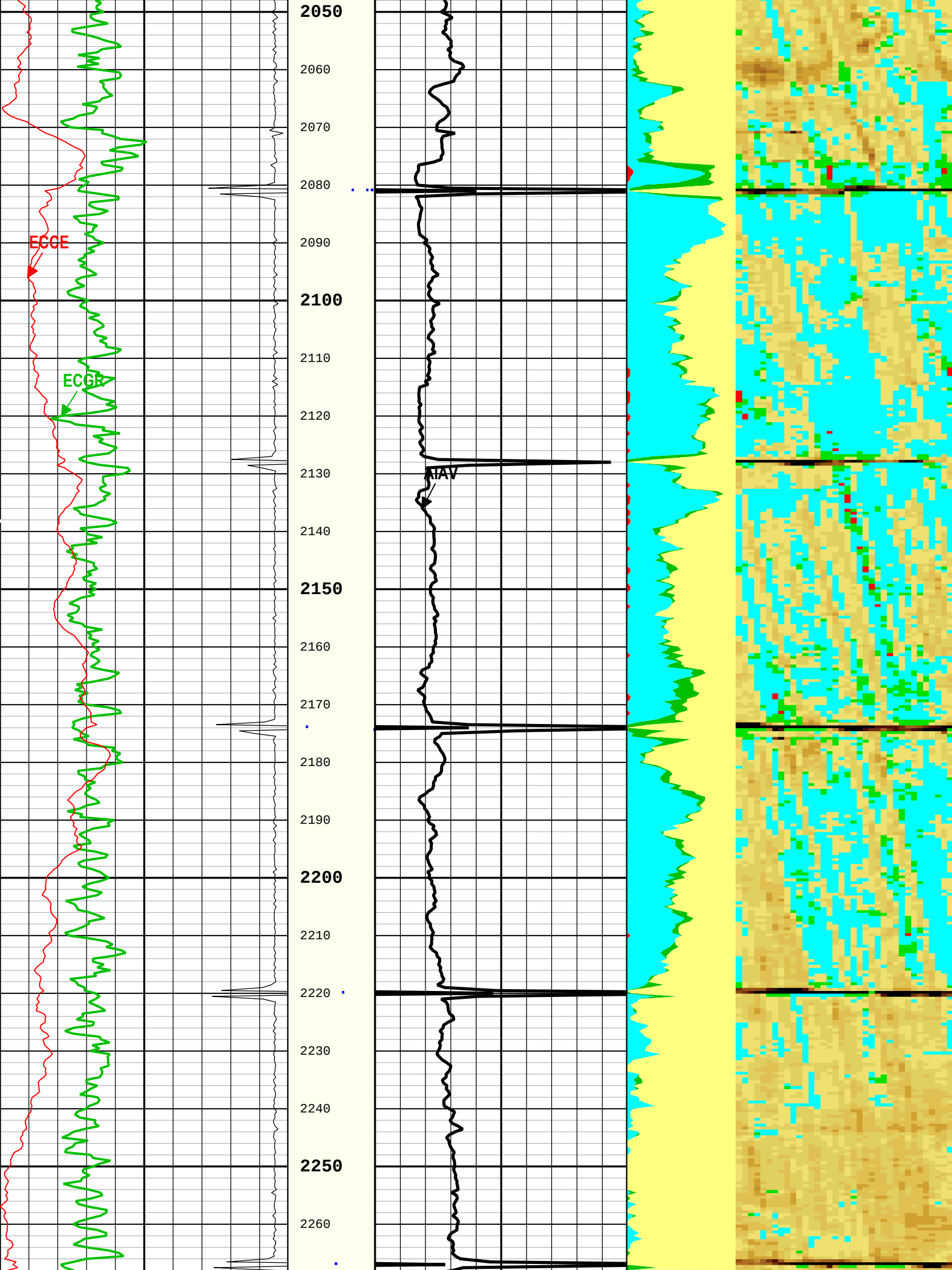
ONE: Log[2]:Up:S006

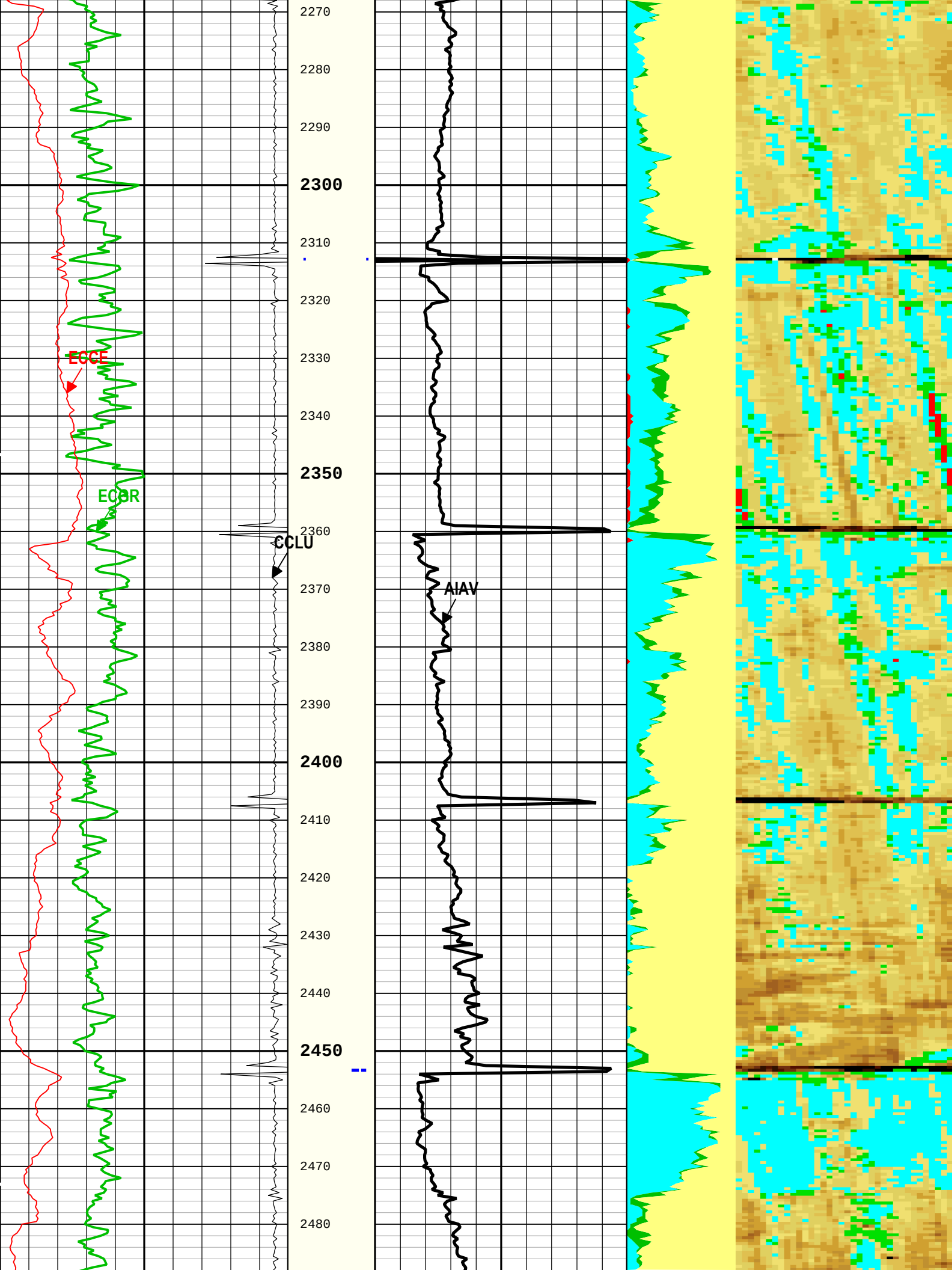
Description: Format: Log (DJ Basin Ultrasonic Cement Summary Report) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth

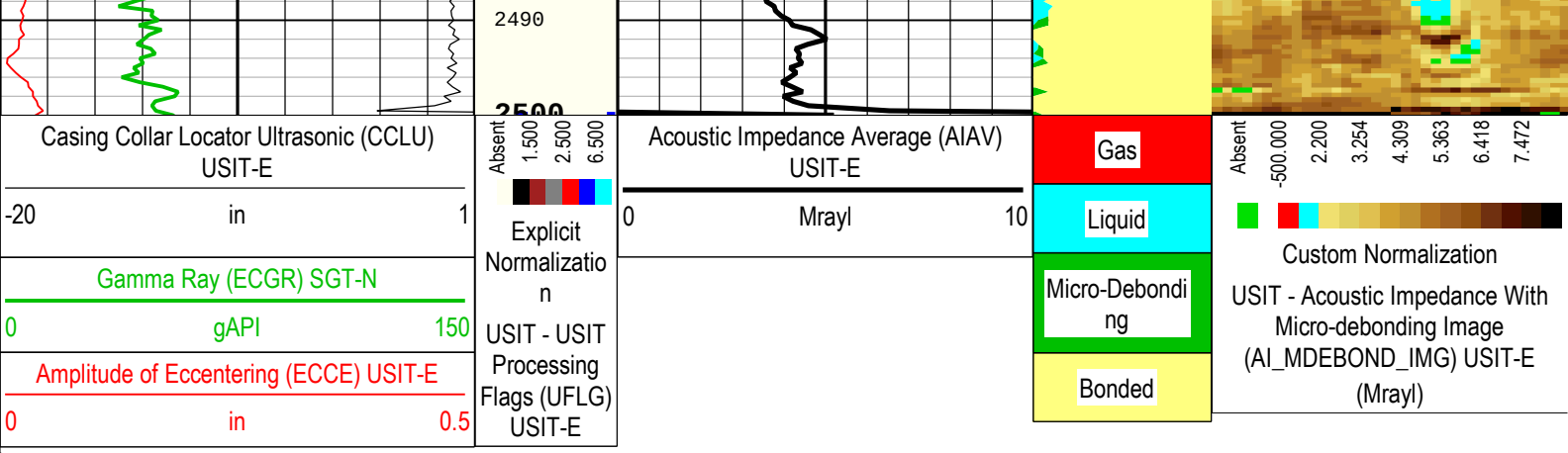
Creation Date: 18-Sep-2017 02:55:08

TIME_1900 - Time Marked every 60.00 (s)




ECCE
ECGR
AIAV
2050
2060
2070
2080
2090
2100
2110
2120
2130
2140
2150
2160
2170
2180
2190
2200
2210
2220
2230
2240
2250
2260


ECCE
ECGR
CCLU
AIAV
2270
2280
2290
2300
2310
2320
2330
2340
2350
2360
2370
2380
2390
2400
2410
2420
2430
2440
2450
2460
2470
2480



TIME_1900 - Time Marked every 60.00 (s)

Description: Format: Log (DJ Basin Ultrasonic Cement Summary Report) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 18-Sep-2017 02:55:08

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
ISSBAR	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	8.5	in
CBLO	Casing Bottom (Logger)	WLSESSION	16555.5	ft
CDEN	Cement Density	SGT-N	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
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
ICE_PROCESS	ICE Processing	USIT-E	Yes	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	22.44	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.15	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0.1	Mrayl
UFGDE	Fiberglass Density	USIT-E	16.27	lbm/gal
UFGPS	Fiberglass Processing Selection	USIT-E	No	
UFGVL	Fiberglass Velocity	USIT-E	9678.48	ft/s
USI_FSOD	USIT USI Fluid Slowness Fits Casing Outer Diameter	USIT-E	0_OFF	
USI_FVEL_SEL	USI Fluid Velocity Selection	USIT-E	Automatic	
USI_ZMUD_SEL	USI Mud Impedance Selection	USIT-E	FreePipe Norm.	
ZMUD	Acoustic Impedance of Mud	Borehole	1.48	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

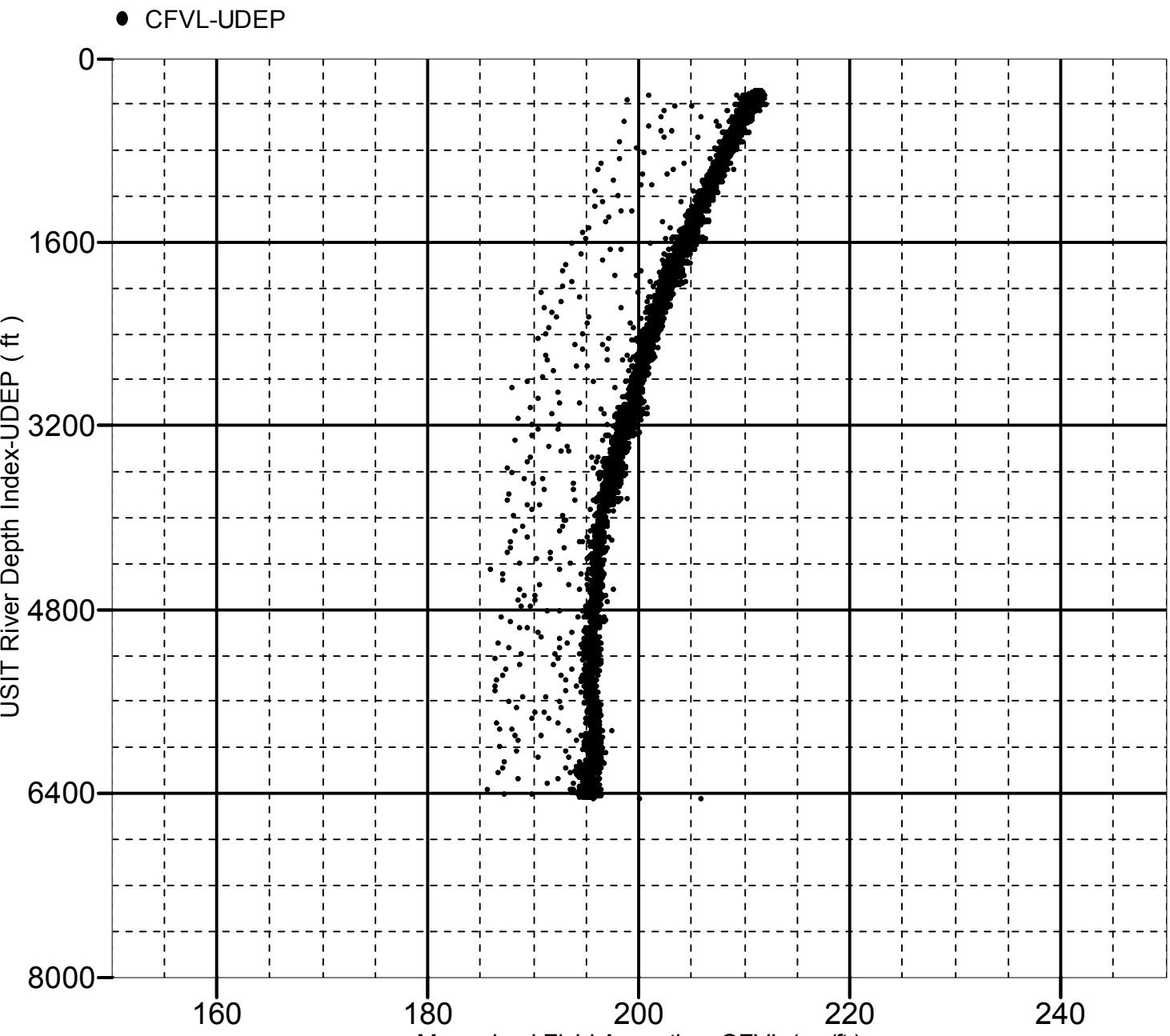
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	18	dB

U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
EMXV	EMEX Voltage	USIT-E	45	V
HRES	Horizontal Resolution	USIT-E	10 deg	
TMUC	Type of Mud	USIT-E	BRI	
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
USFR	Ultrasonic Sampling Frequency	USIT-E	500000	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 6.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	3000	ft
WINB	Window Begin Time	USIT-E	31.88	us
WINE	Window End Time	USIT-E	71.88	us

Fluid Acoustic Slowness vs Depth

2D Cross Plot

Index Range: From 5850.00 to 86.00 ft



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

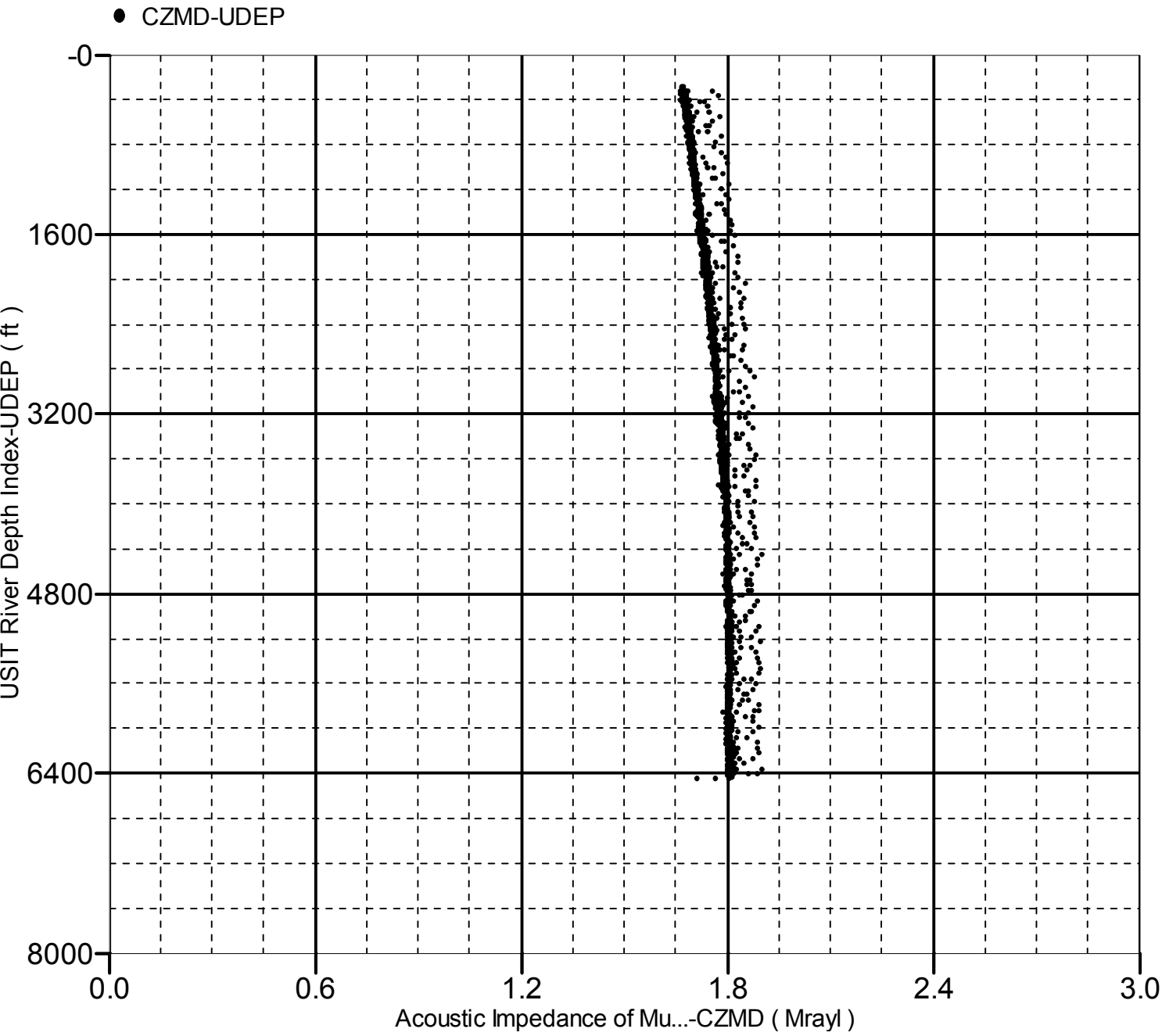
XYZ

Company:Noble Energy INC Well:Wells Ranch BB11-658
ONE: Log[5]:Up:S006

Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 5850.00 to 86.00 ft



Company:	Noble Energy INC
Well:	Wells Ranch BB11-658
Field:	Wattenberg
County:	WELD
State:	Colorado

Schlumberger

UltraSonic Summary Print