

Company: Anadarko Petroleum Company

Well: Benson Farms 12N-23HZ

Field: Wattenberg

County: Weld State: Colorado

Ultrasonic Imager
Cement Evaluation
Gamma Ray - CCL

County: Weld
Field: Wattenberg
Location: NWSW Sec. 24, T3N, R68W
Well: Benson Farms 12N-23HZ
Company: Anadarko Petroleum Company

Location:			
NWSW Sec. 24, T3N, R68W SHL: 2105' FSL & 50' FWL Lat/Long: 40.210061/-104.960553		Elev.:	K.B. 4973.00 ft G.L. 4957.00 ft D.F. 4972.00 ft
Permanent Datum:	Ground Level	Elev.:	4957.00 f
Log Measured From:	Kelly Bushing	16.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Section:	Township:	Range:
05-123-39399-0000	24	3N	68W

Logging Date	13-Aug-2014		
Run Number	Run 1		
Depth Driller	13068.00 ft		
Schlumberger Depth	13068.00 ft		
Bottom Log Interval	6460.00 ft		
Top Log Interval			
Casing Fluid Type	Water		
Salinity			
Density	8.4 lbm/gal		
Fluid Level	8.00 ft		
BIT/CASING/TUBING STRING			
Bit Size	6.13 in		
From	7559.00 ft		
To	13068.00 ft		
Casing/Tubing Size	7 in		
Weight	26 lbm/ft		
Grade	P110		
From	0.00 ft		
To	7559.00 ft		
Max Recorded Temperatures	203 degF		
Logger on Bottom	13-Aug-2014	17:45:00	
Unit Number	Location:	Time	
Recorded By	3030	Fort Morgan, CO	
Recorded By	Keri Ondrus		
Witnessed By	Trevor Daniel		

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.

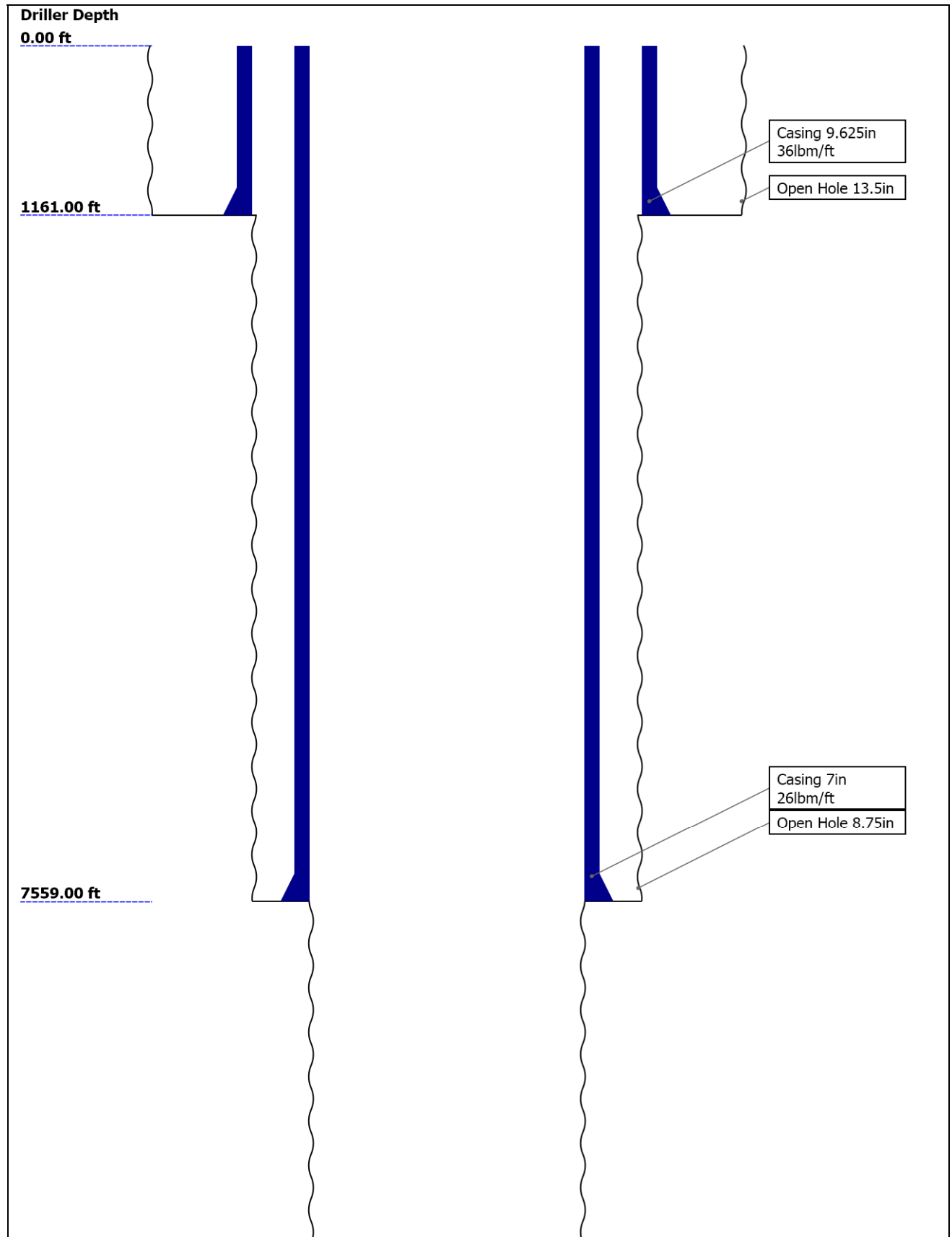
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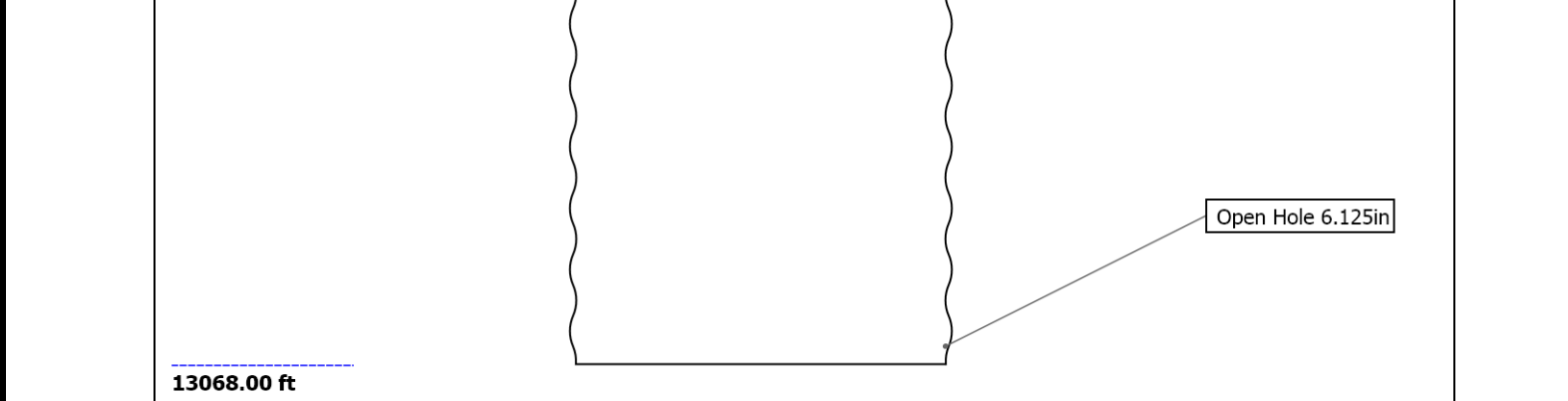
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Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	13.5	8.75	6.125			
Top Driller (ft)	0	1161	7559			
Top Logger (ft)	0	1161	7559			
Bottom Driller (ft)	1161	7559	13068			
Bottom Logger (ft)	1161	7559	13068			
Casing						
Size (in)	9.625	7				
Weight (lbm/ft)	36	26				
Inner Diameter (in)	8.921	6.276				
Grade	J55	P110				
Top Driller (ft)	0	0				
Top Logger (ft)	0	0				
Bottom Driller (ft)	1161	7559				
Bottom Logger (ft)	1161	7559				

Operational Run Summary

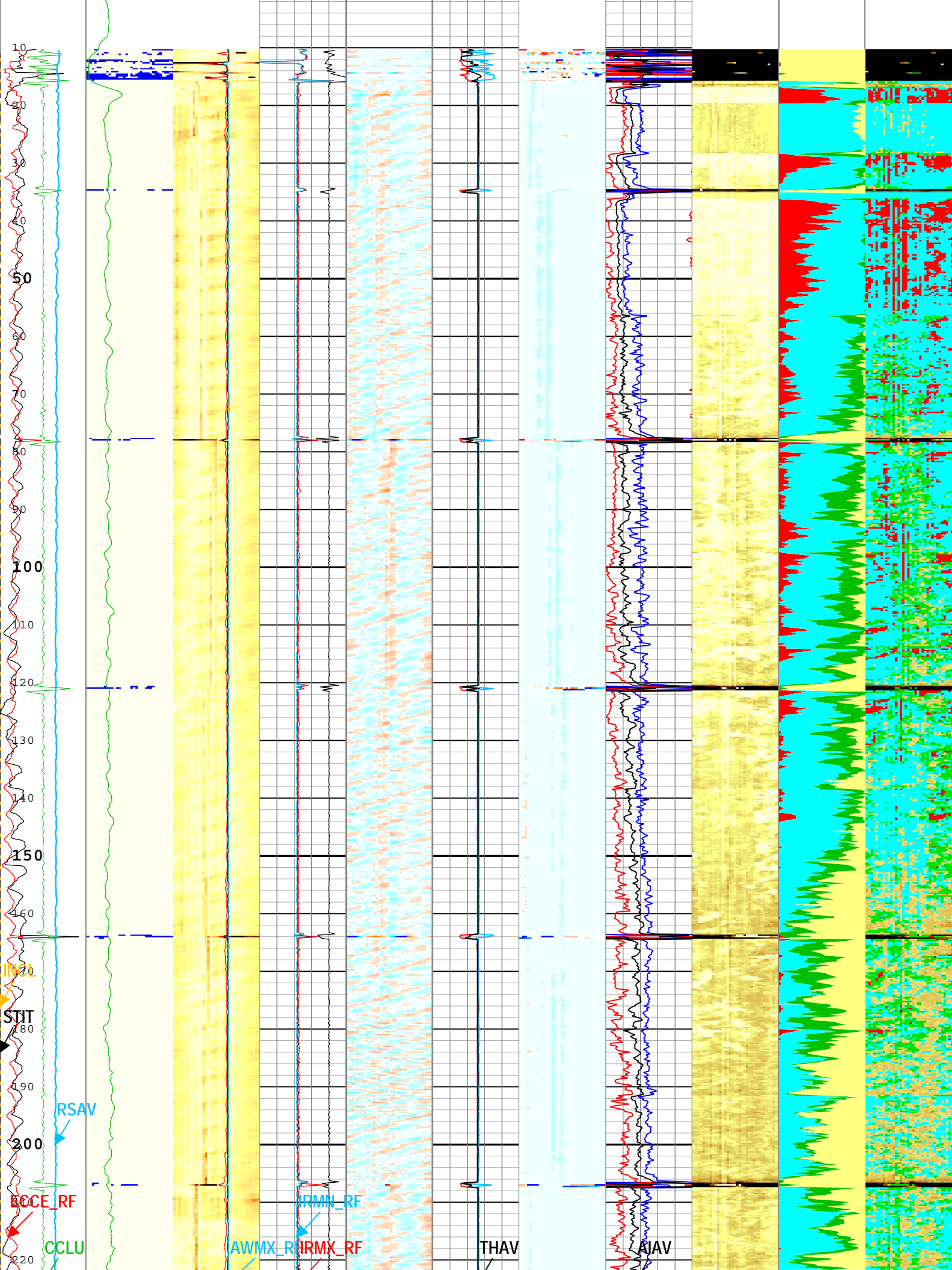
Parameter (unit)	Run 1					
Date Log Started	13-Aug-2014					
Time Log Started	15:11:38					
Date Log Finished	13-Aug-2014					
Time Log Finished	18:52:17					
Top Log Interval (ft)	NaN					
Bottom Log Interval (ft)	6460.00					
Total Depth (ft)	6460.00					
Max Hole Deviation (deg)	0.00					
Azimuth of Max Deviation (deg)	0.00					
Bit Size (in)	6.125					
Logging Unit Number	3030					
Logging Unit Location	Fort Morgan, CO					
Recorded By	Keri Ondrus					
Witnessed By	Trevor Daniel					
Service Order Number	BX19-00170					

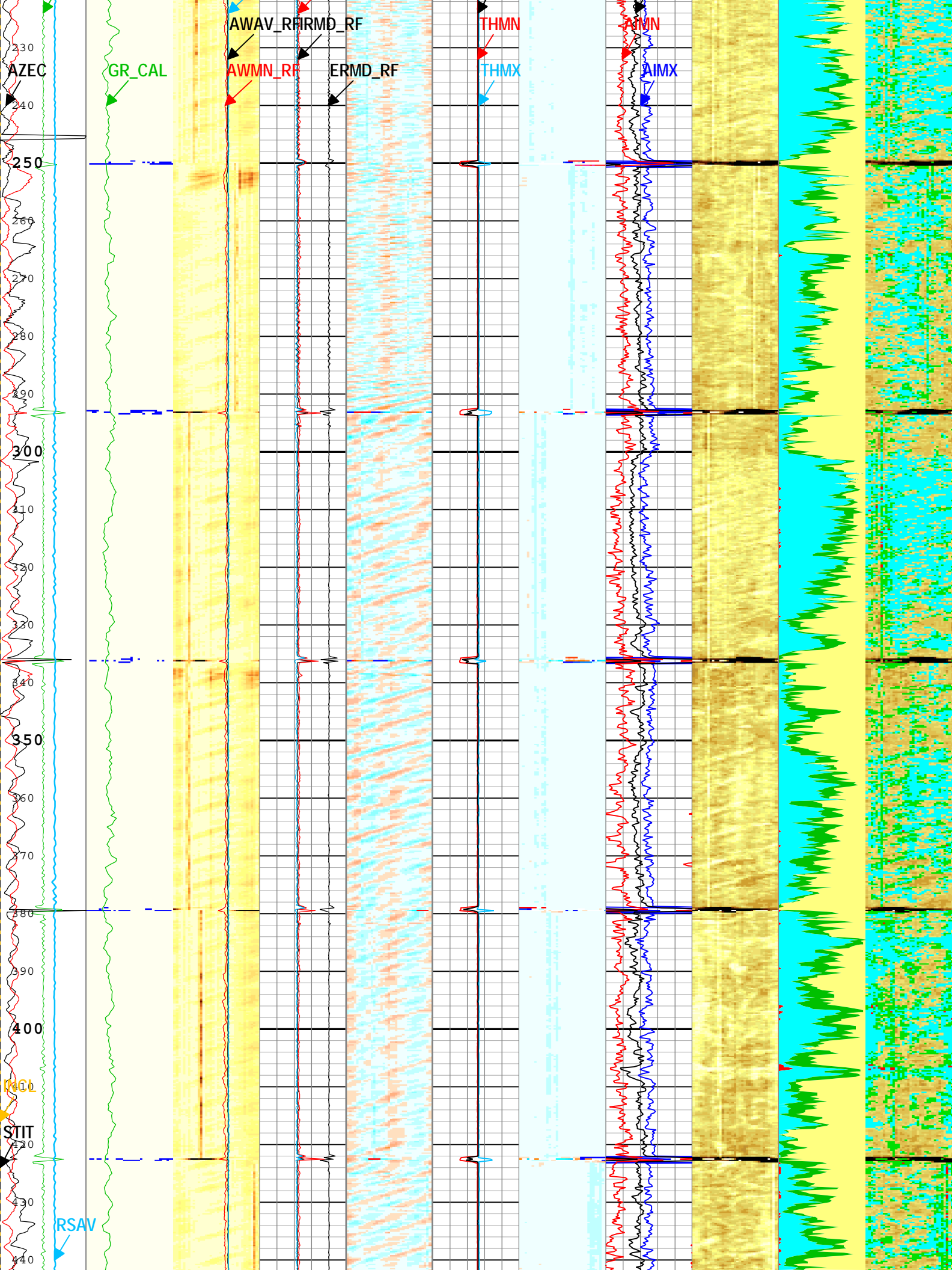
Service Order Number	DX15-00170					
Borehole Fluids						
Parameter(unit)	Run 1					
Fluid Type	Water					
Max Recorded Temperatures (degF)	203					
Salinity (ppm)	0					
Density (lbm/gal)	8.4					
Date Logger on Bottom	13-Aug-2014					
Time Logger on Bottom	17:45:00					
Total Solid (%)						
High Gravity Solids (%)						
Remarks and Equipment Summary						
Run 1 : Toolstring		Run 1 : Remarks				
<div> <div> <div>Equip name</div> <div>Length</div> <div>LEH-QT:24</div> <div>30.75</div> <div>93</div> <div>LEH-QT:2493</div> </div> <div> <div>MP name</div> <div>Offset</div> <div></div> <div></div> </div> </div> <div> <div> <div>DTC-H:938</div> <div>27.84</div> <div>6</div> <div>ECH-KC:1047</div> <div>2</div> <div>DTC-H:9386</div> </div> <div> <div>SGT-N:984</div> <div>24.84</div> <div>1</div> <div>SGH-K:2693</div> <div>SGD-TAA:213</div> <div>65</div> <div>SGC-TB:9841</div> </div> <div> <div>CME-AF</div> <div>19.34</div> </div> <div> <div>USIT-E:928</div> <div>15.54</div> <div>03</div> <div>USAC-A:928</div> <div>USIS-A:1804</div> <div>USSC-B</div> <div>USRS-B:875</div> <div>USI-SENSOR</div> </div> <div> <div>USI Sens</div> <div>0.38</div> <div>or</div> <div>TOOL ZERO</div> <div>Head Ten</div> </div> </div> <div> <div>CTEM</div> <div>26.94</div> <div>HV</div> <div>0.00</div> <div>TelStatus</div> <div>24.84</div> <div>ToolStat</div> <div>24.84</div> <div>us</div> <div>GR</div> <div>23.92</div> </div>						<div>Toolstring run as per toolsketch.</div> <div>Objective: Cement and Corrosion logs</div> <div>Cemented by Schlumberger on 7-Jul-2014</div> <div>8.33PPG wash, 8.4PPG CW-7 spacer, 11.0PPG MUDPUSH Express, 12.0PPG lead cement, 13.0PG tail cement, and 10.3PPG dis</div> <div>Good returns throughout cement job; floats held.</div> <div>Main pass run under 0 PSI and 2800 PSI.</div> <div>4.5" liner top at 6475 feet.</div> <div>Bottom log interval at 6460 feet to maintain distance from liner top.</div> <div>Thank you for choosing Schlumberger Wireline.</div> <div>SLB crew: Gary Lapp, Aaron Weber, and Tyler Riter.</div>

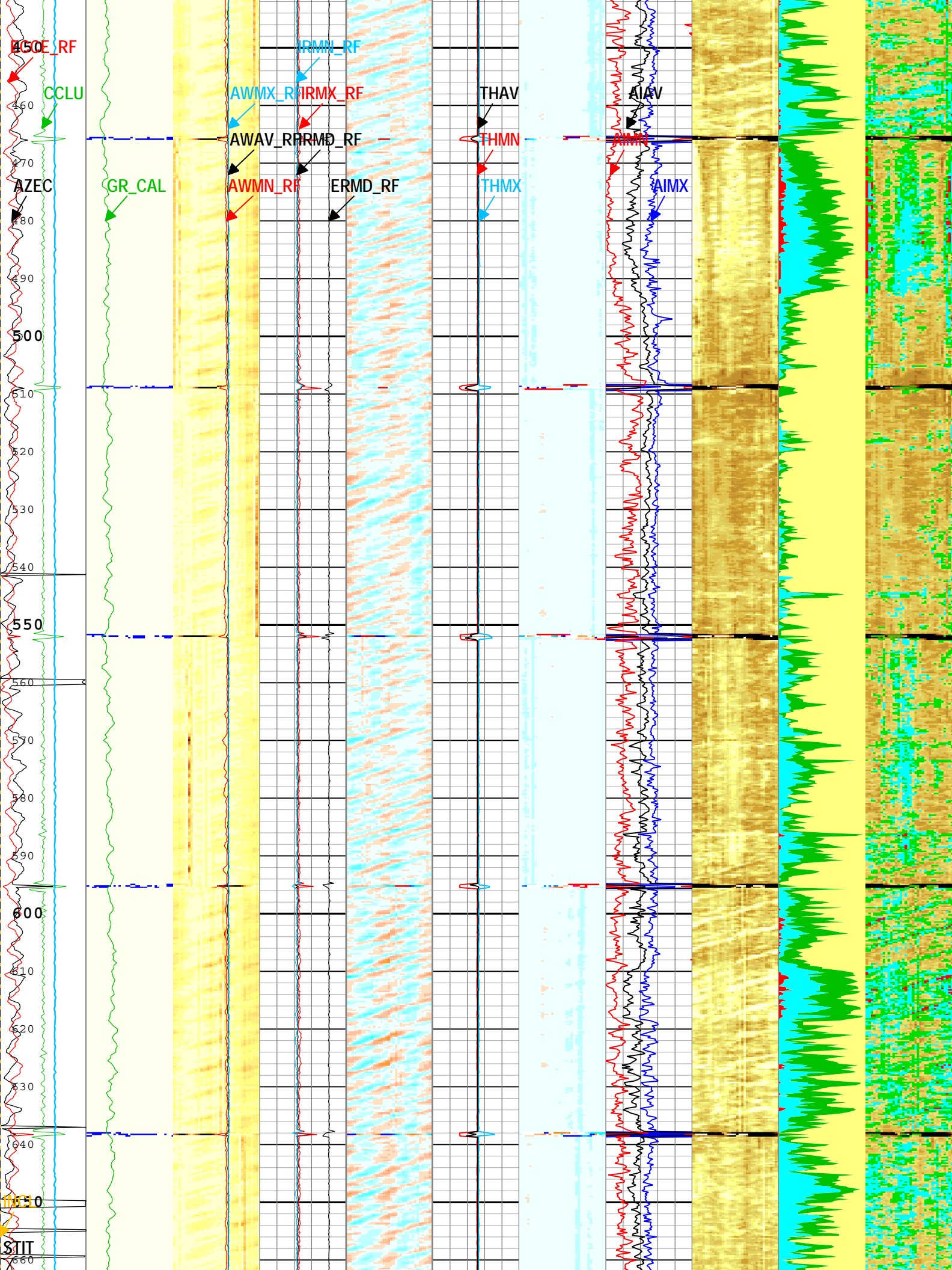
Line: Sensor Location, Value: Gating Onset All measurements are relative to TOOL_ZERO			
Depth Summary			
	Run 1		
Depth Measuring Device			
Type	IDW-B		
Serial Number	6428		
Calibration Date	21-Apr-2014		
Calibrator Serial Number			
Calibration Cable Type	7-39P LXS		
Wheel Correction 1	-5		
Wheel Correction 2	-4		
Tension Device			
Type	CMTD-B/A		
Serial Number	2858		
Calibration Date	09-Aug-2014		
Calibrator Serial Number			
Number of Calibration Points	10		
Calibration Root Mean Square Error	24		
Calibration Peak Error	49		
Logging Cable			
Type	7-39P-LXS		
Serial Number			
Length	18000.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane		
Run 1 :Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well	All Schlumberger depth control procedures followed. IDW used as primary depth control device. Z-chart used as secondary depth control device.	
Rig Up Length At Surface			
Rig Up Length At Bottom			
Rig Up Length Correction			
Stretch Correction	2.71 ft		
Tool Zero Check At Surface			
Copy of USI Composite			
USIT - Fluid Properties Measurement			
Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Main[3]:Up	6462.29	10.51
Fluid Velocity = "Automatic". CFVL equals DFSL channel			
Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)
Mud Impedance = "Manual". CZMD uses ZMUD parameter zoned table below			
Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
0	250	1.7	1.7
250	500	1.72	1.72
500	1200	1.74	1.74
1200	1600	1.76	1.76
1600	2200	1.78	1.78
2200	2900	1.8	1.8
2900	3500	1.81	1.81
3500		1.82	1.82
Run 1			
2800 PSI Pass			

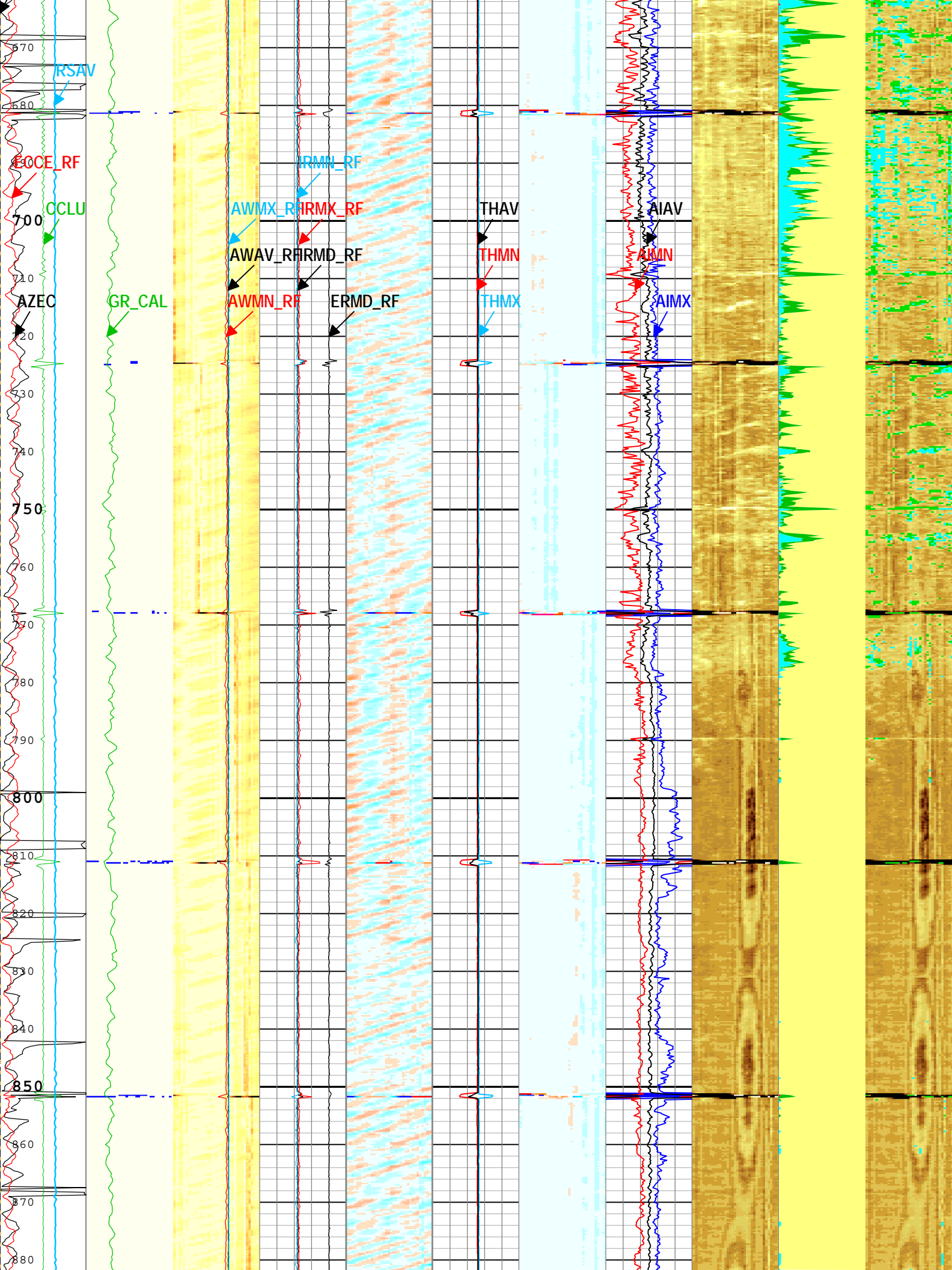
Loop Processing Error

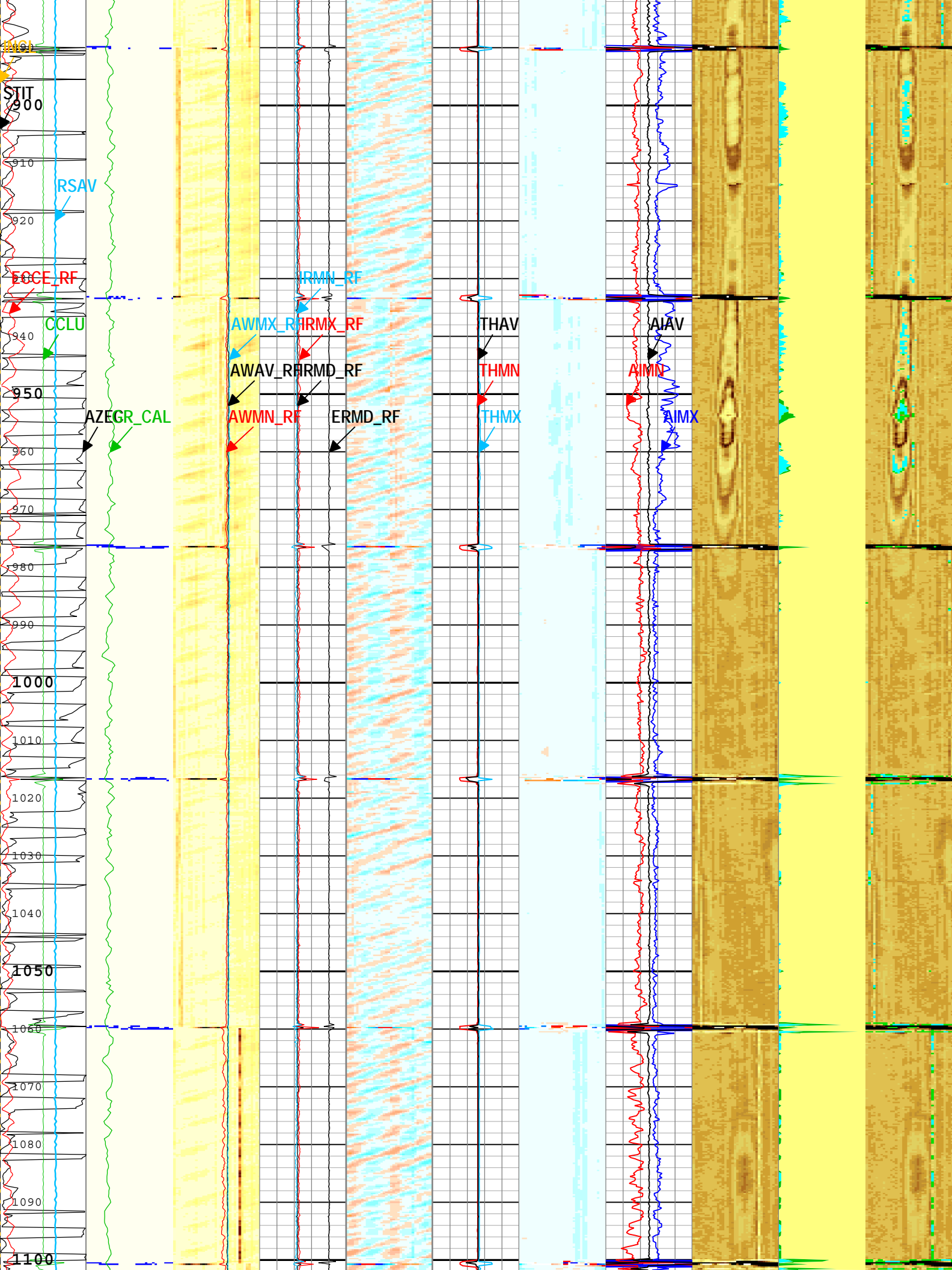
ND_IMG)
USIT-E
(Mrayl)

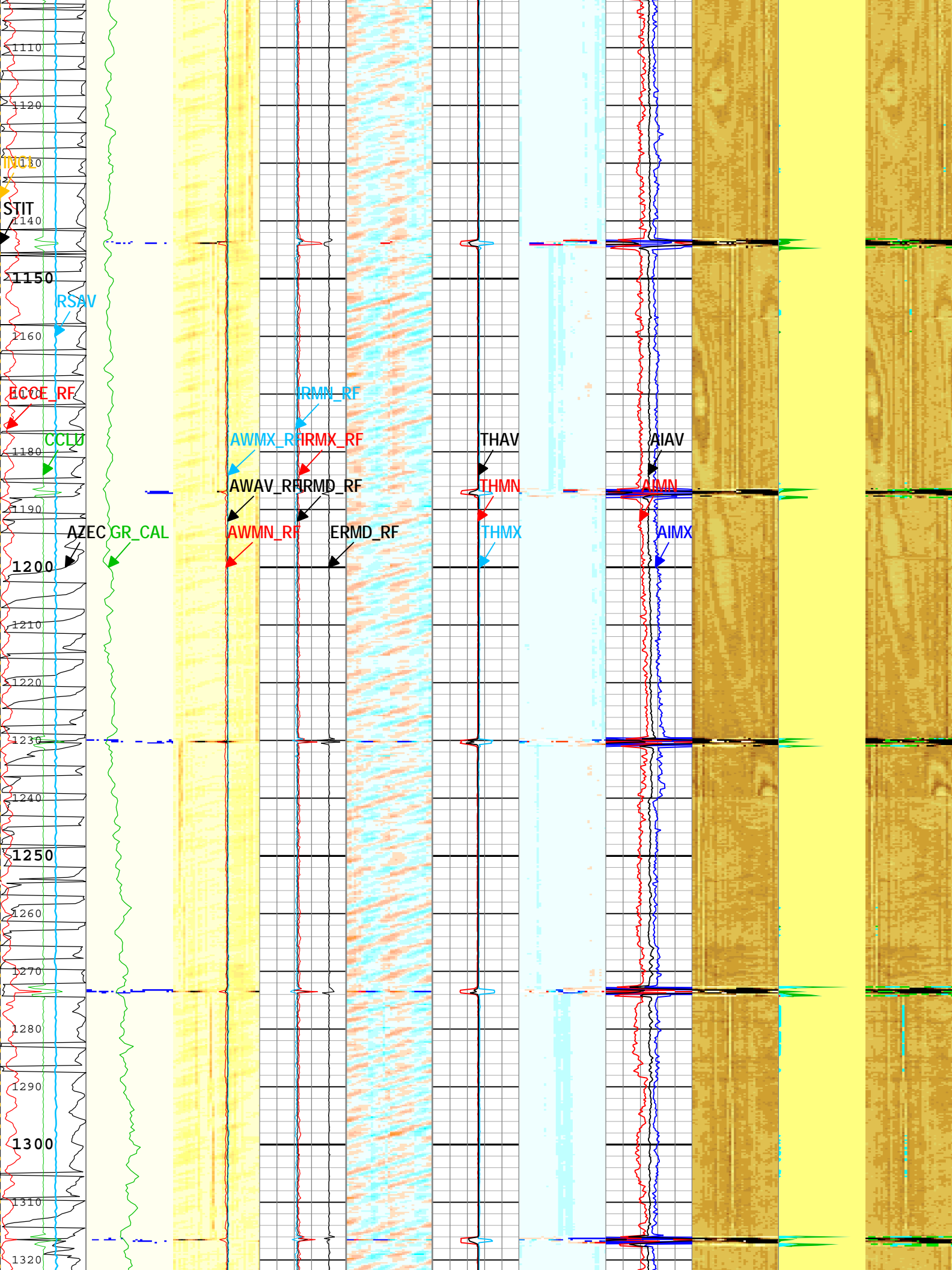


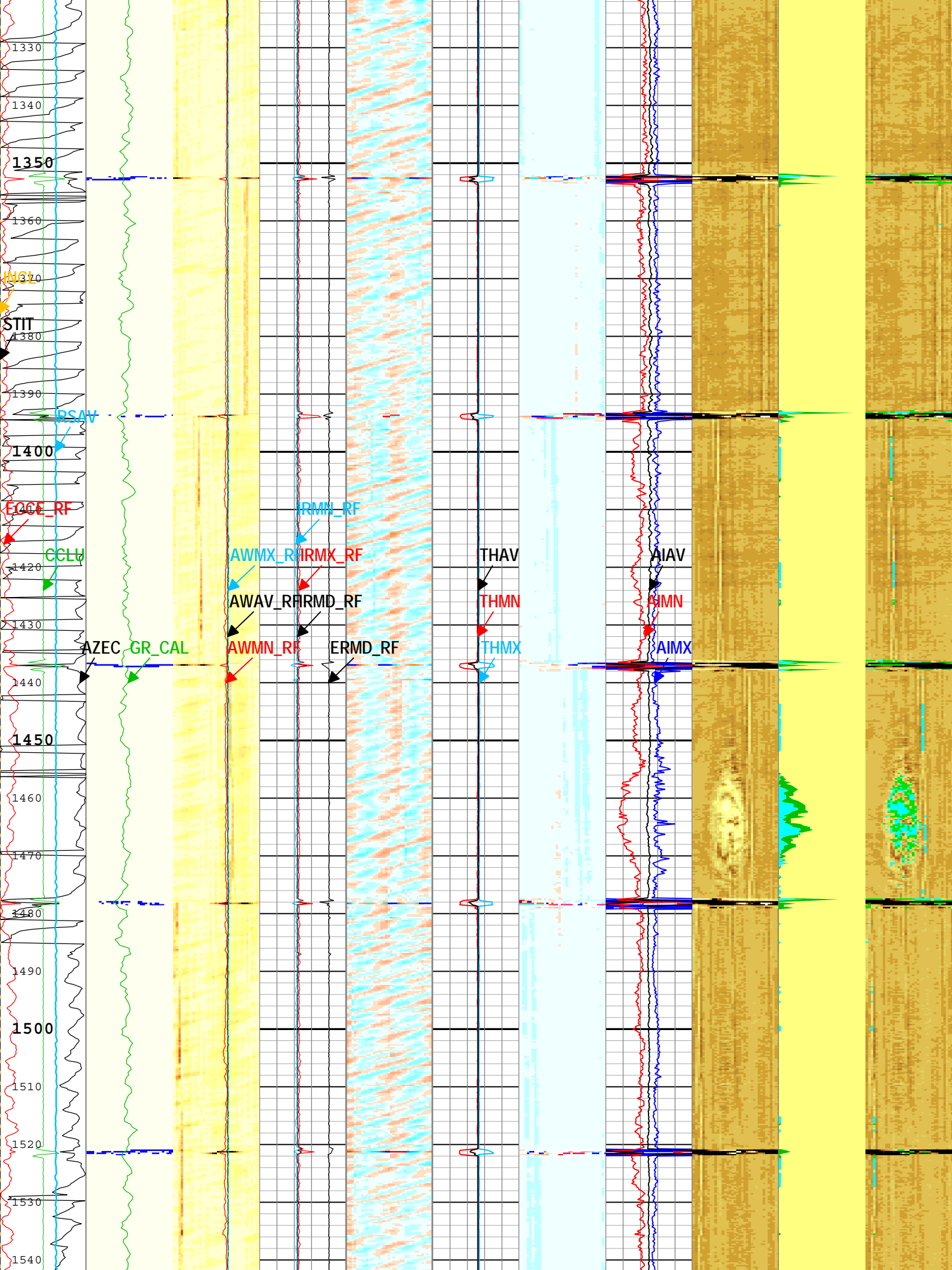


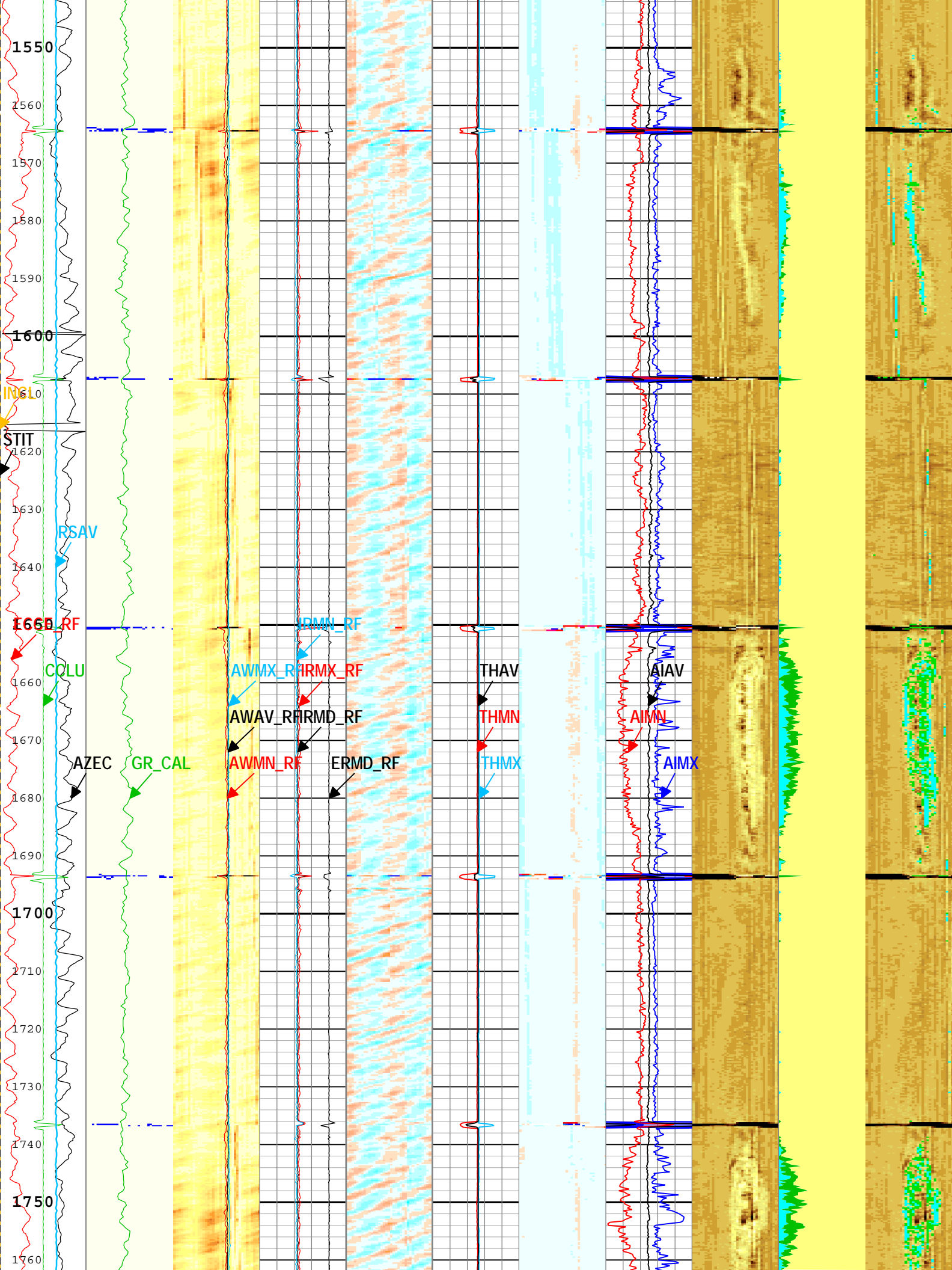


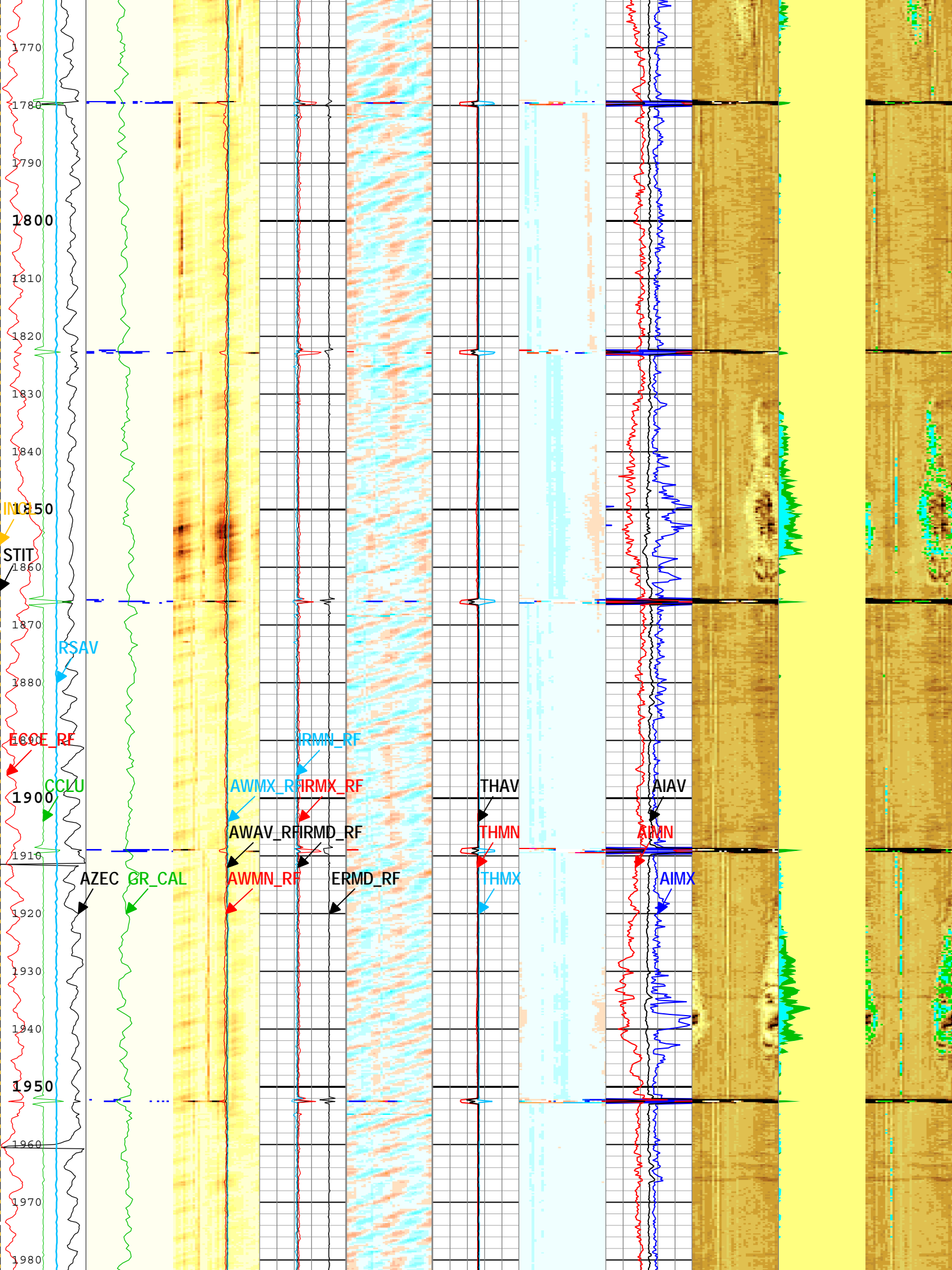


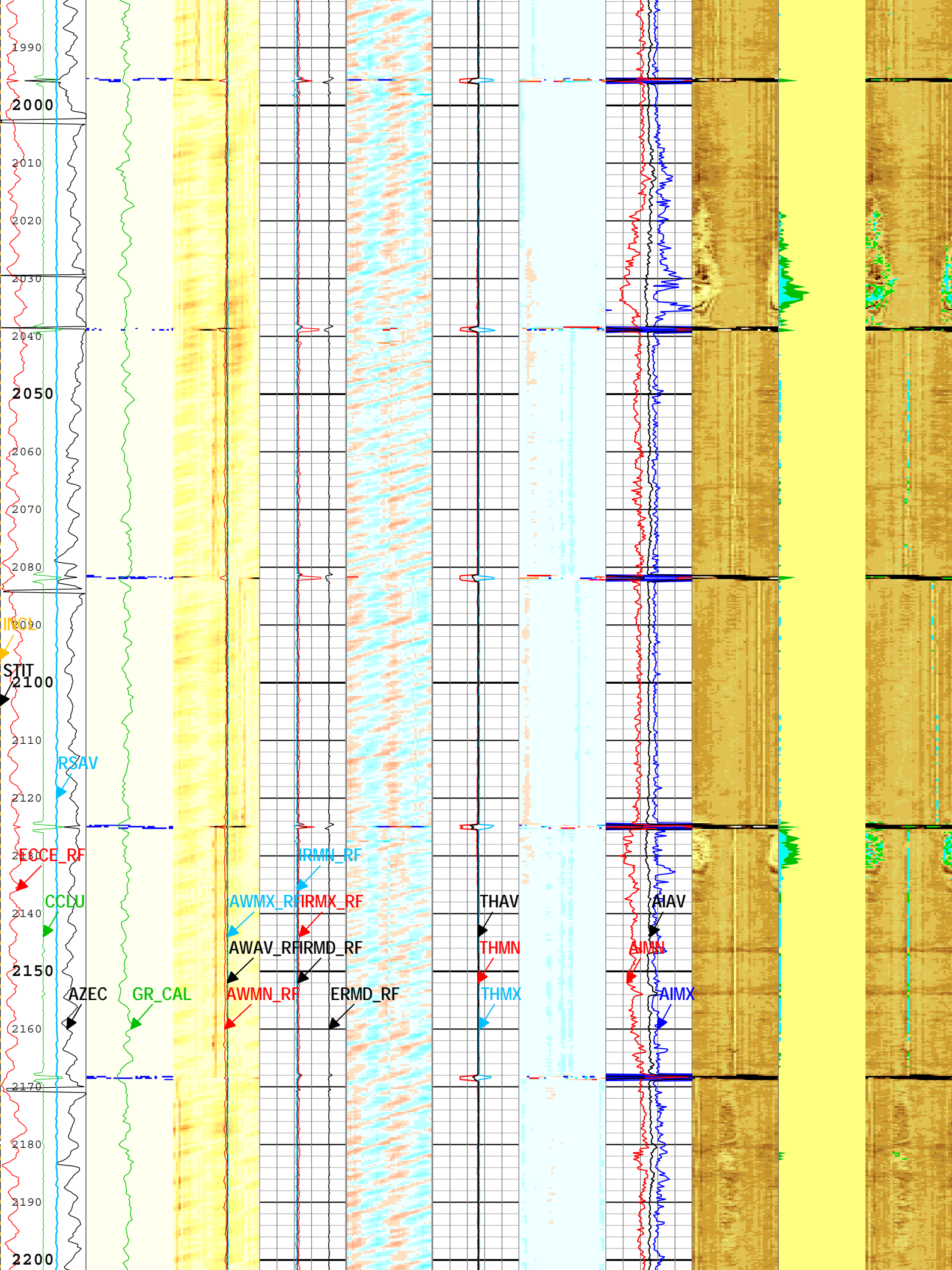


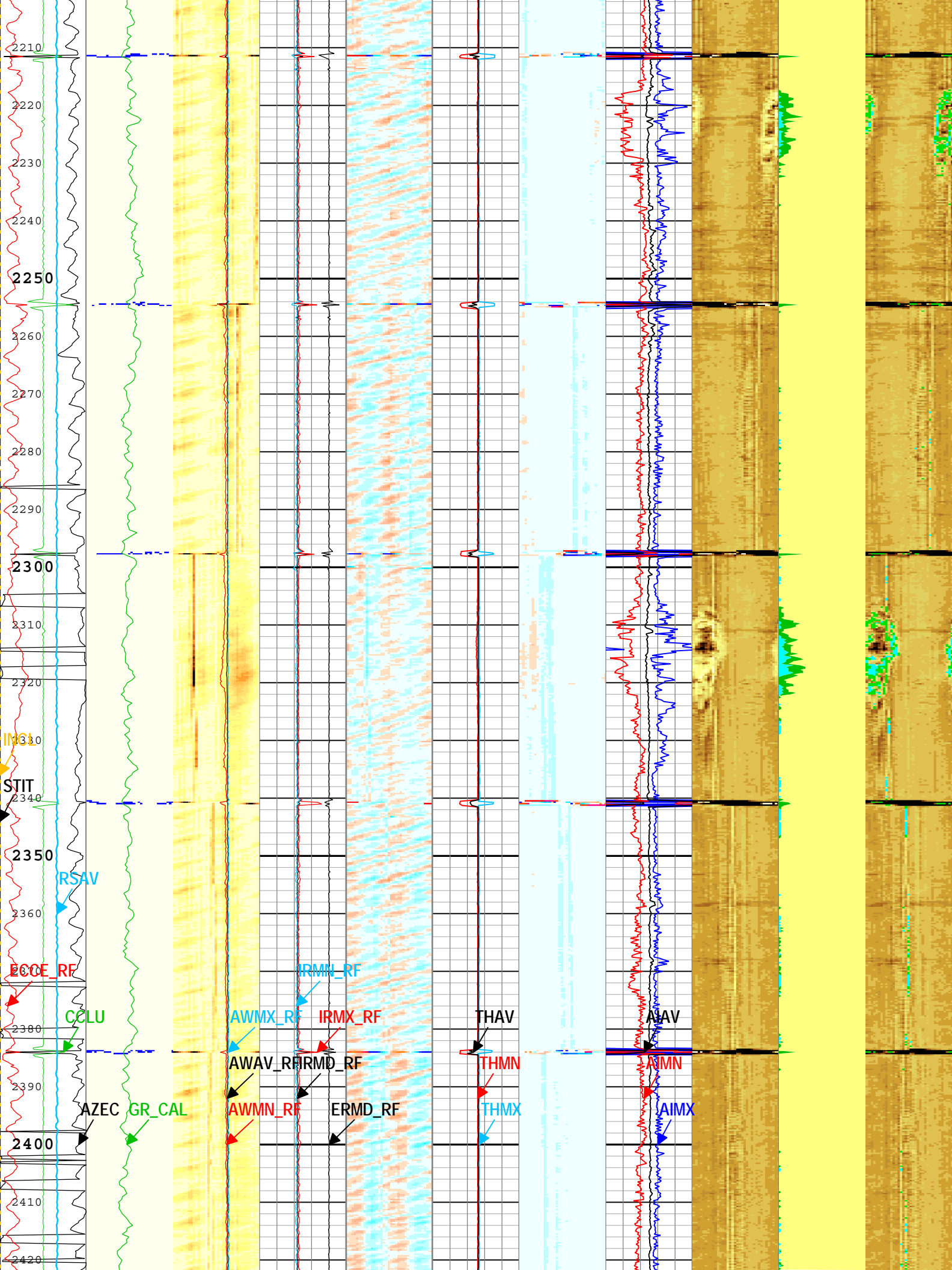


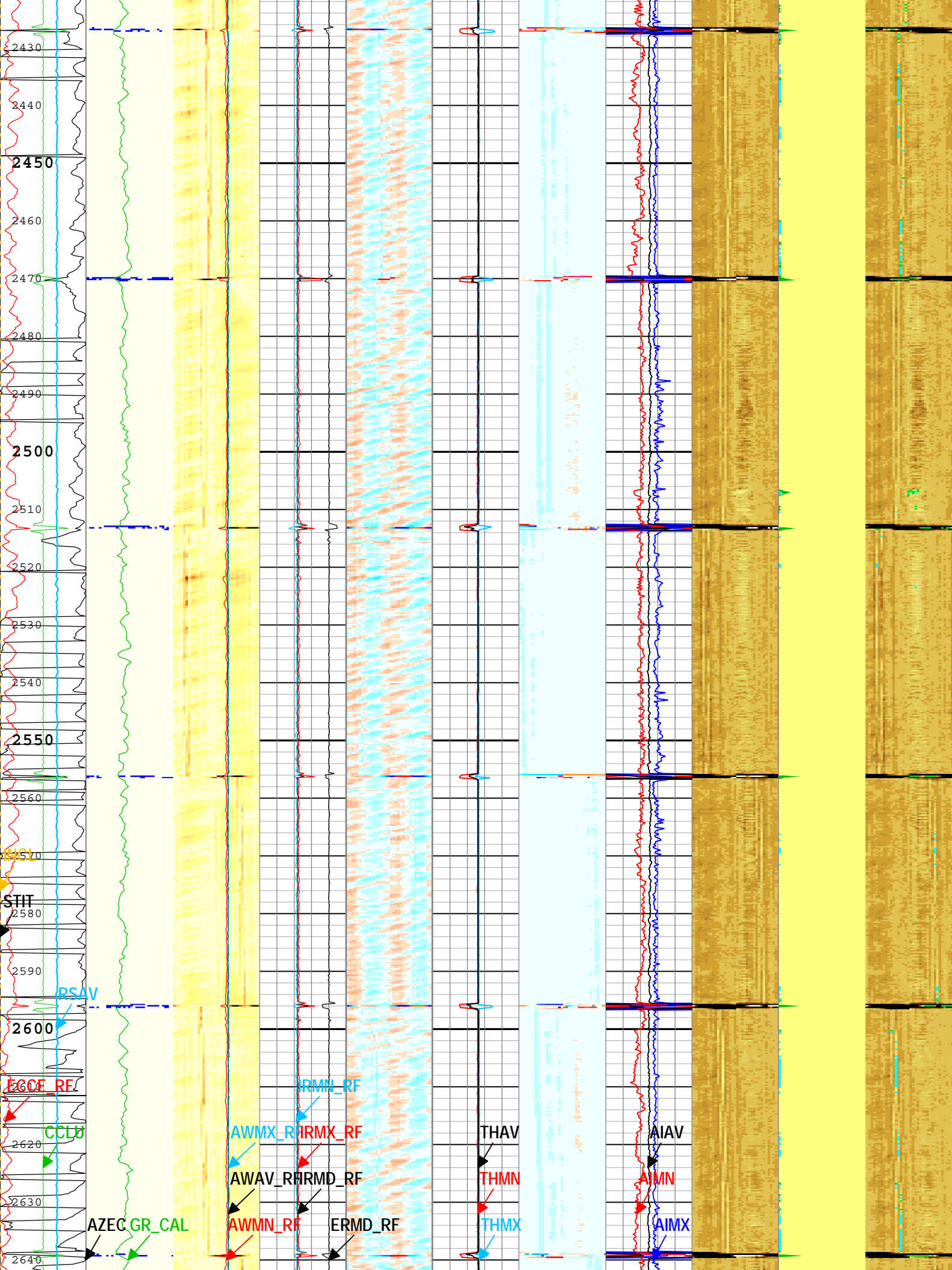


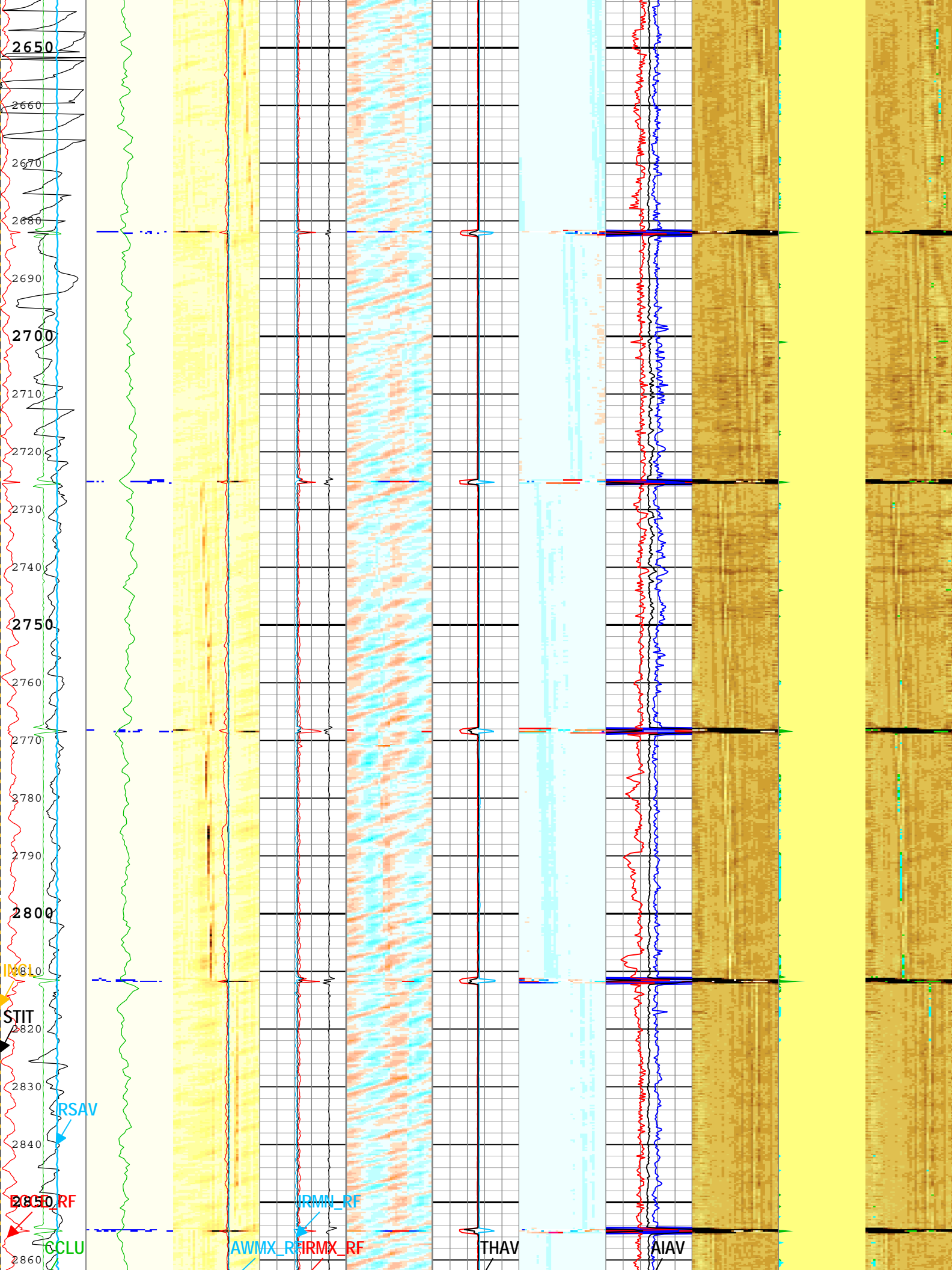


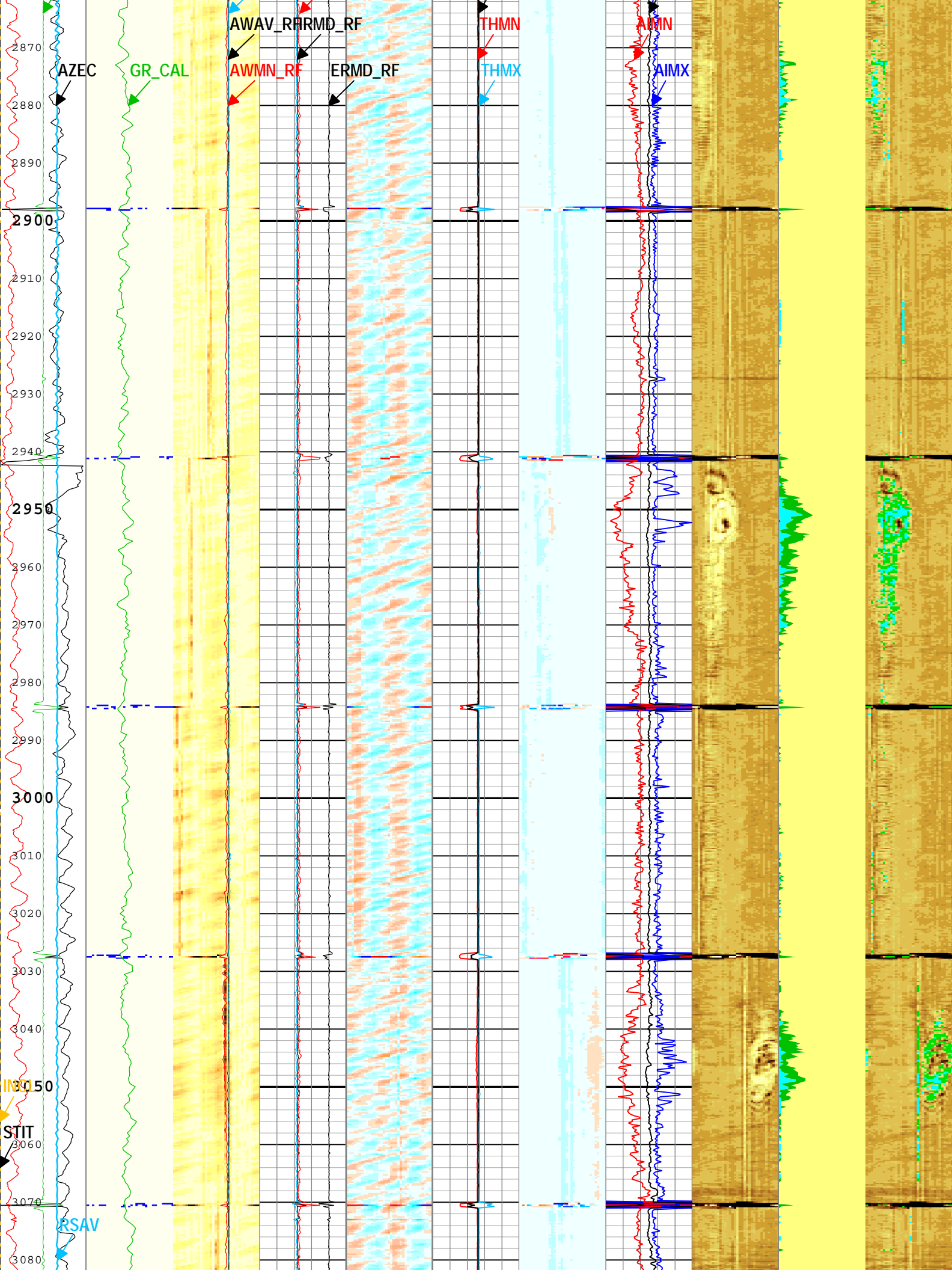


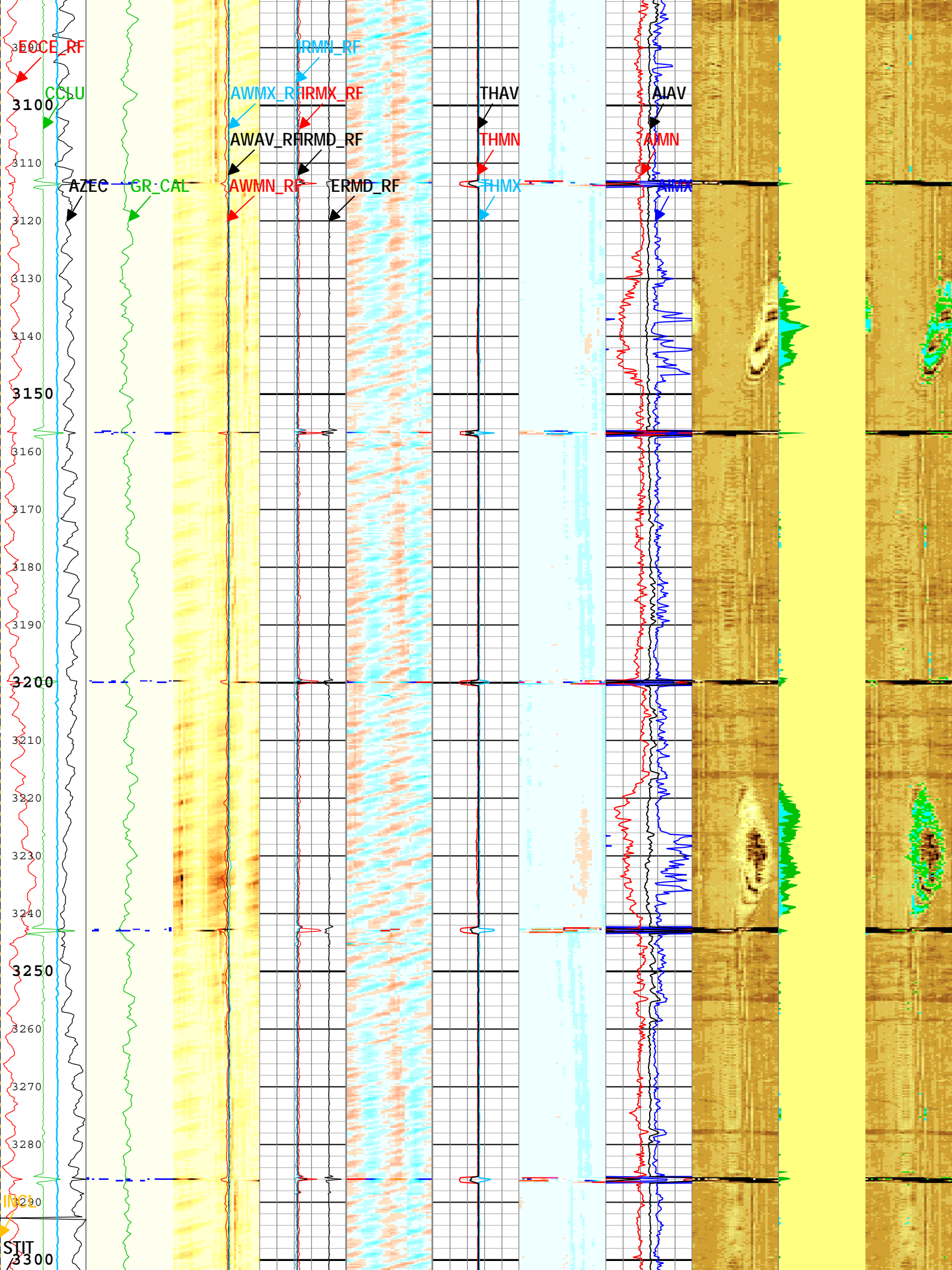


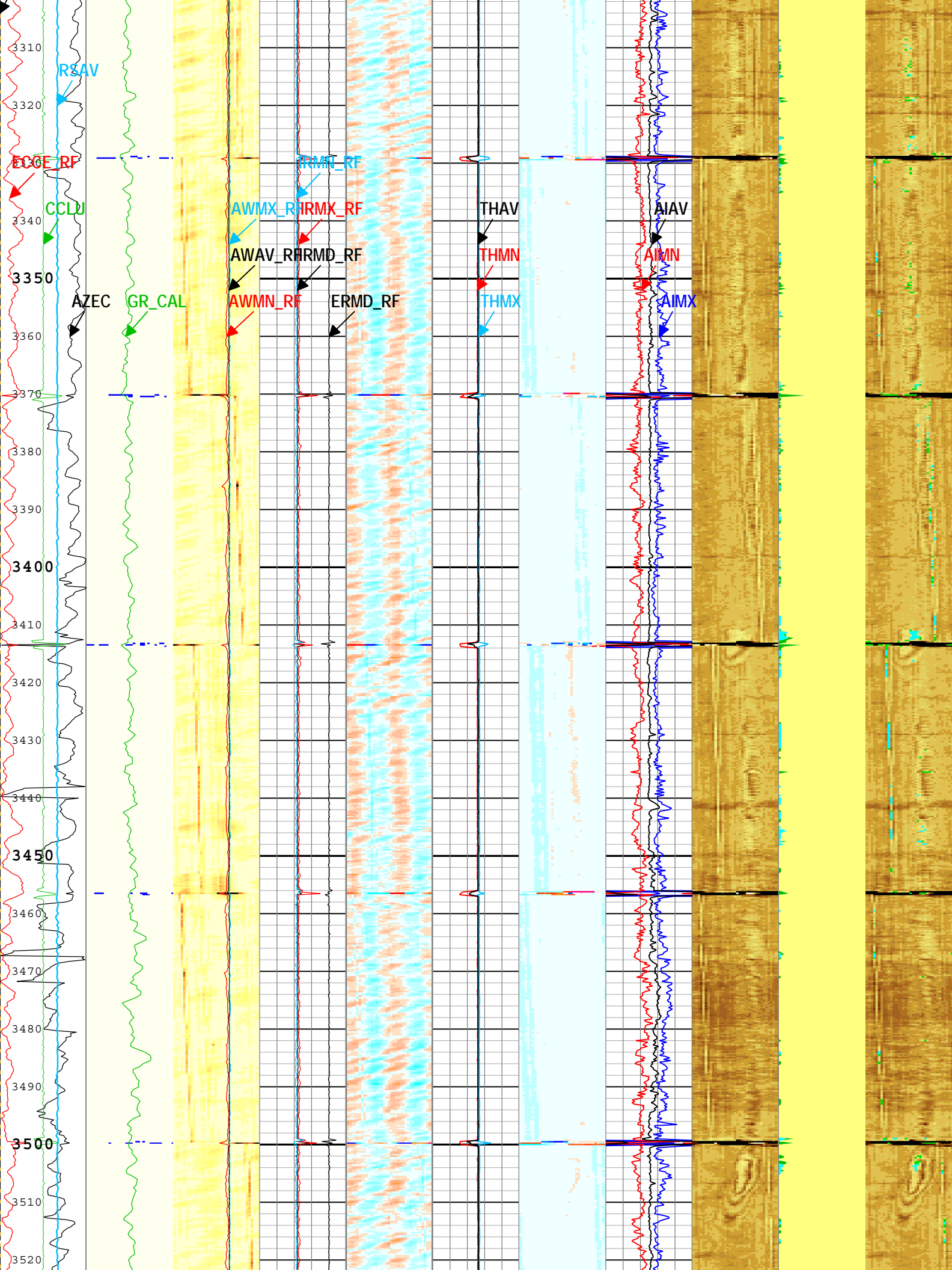


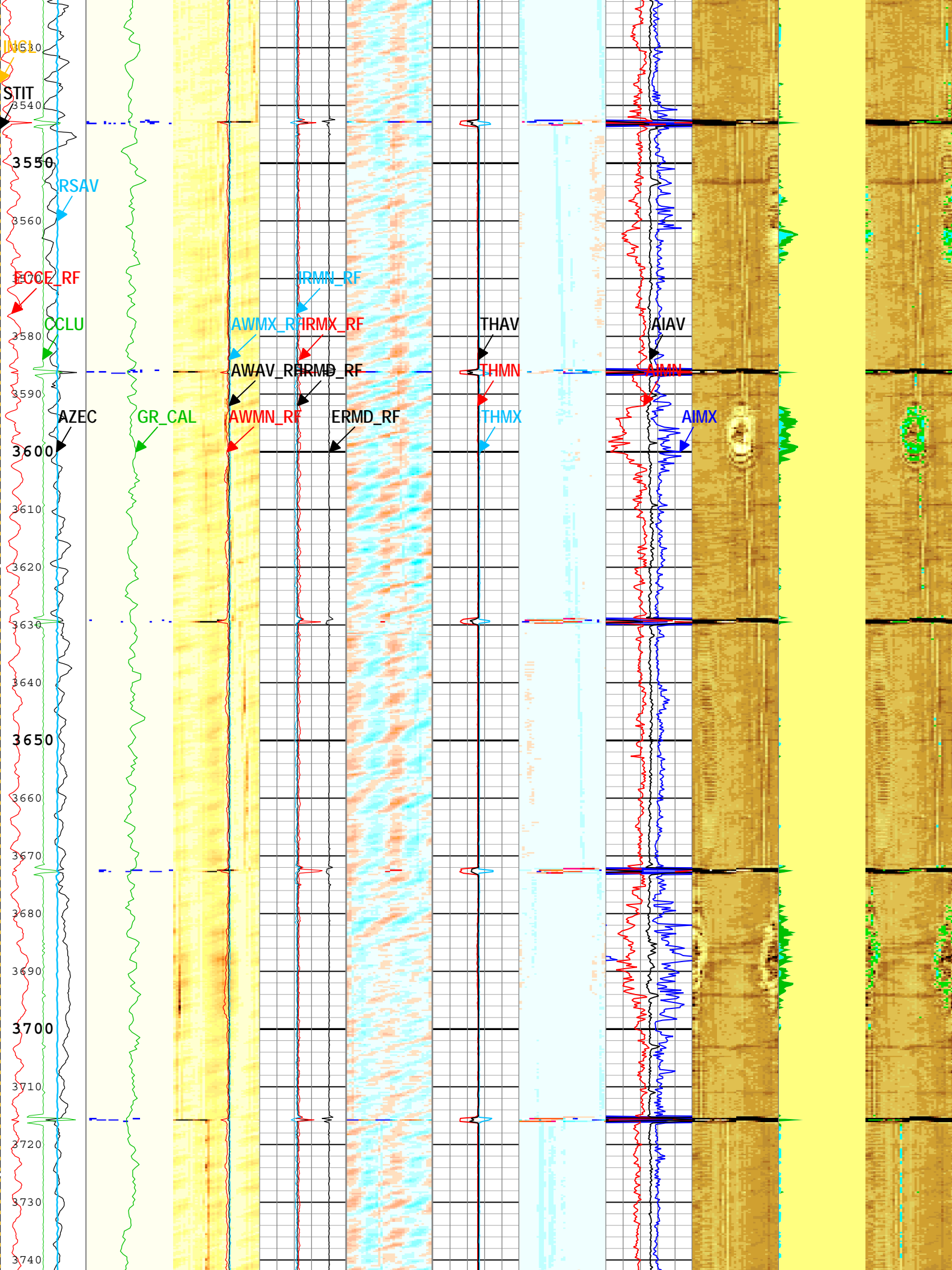


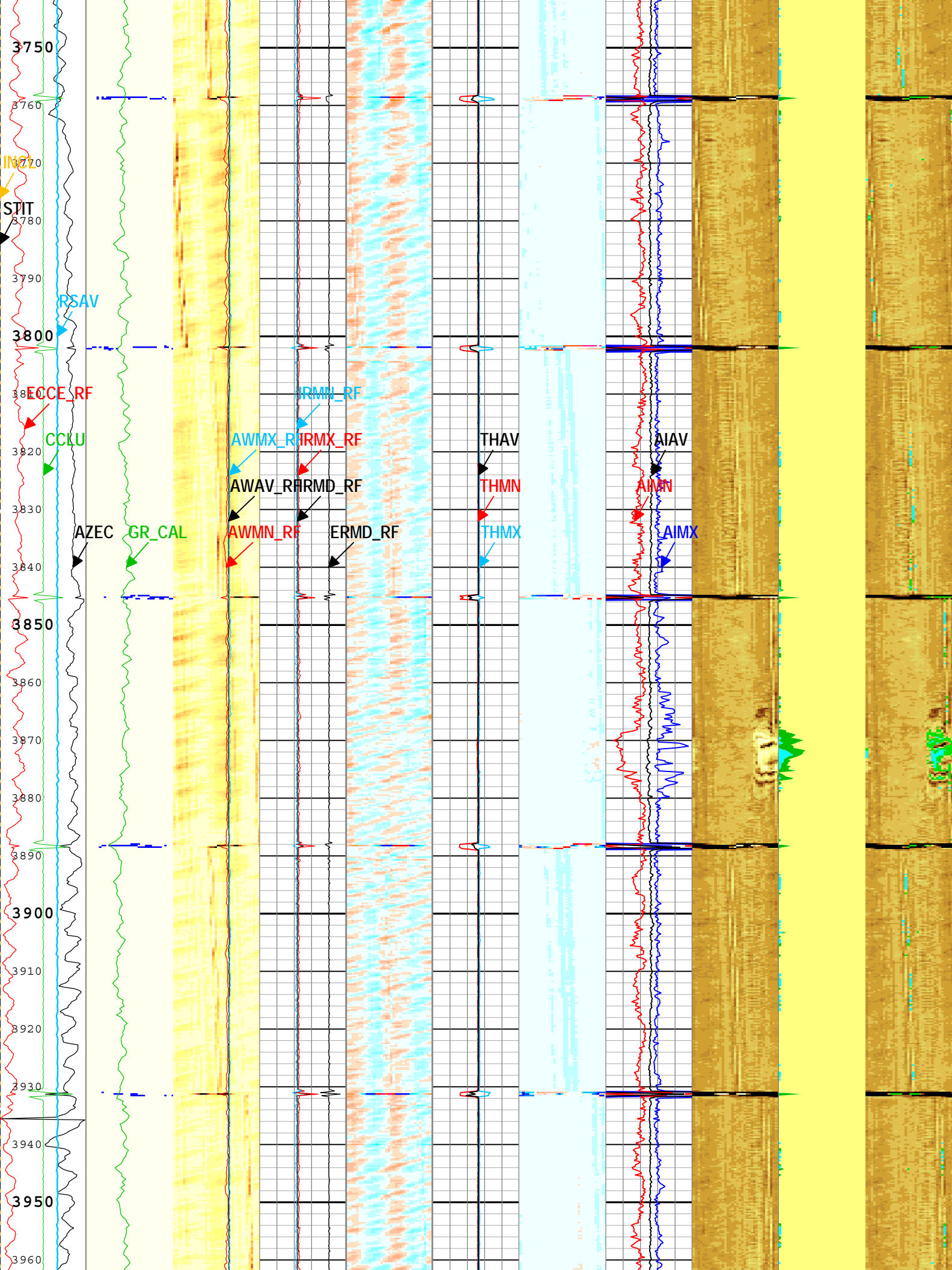


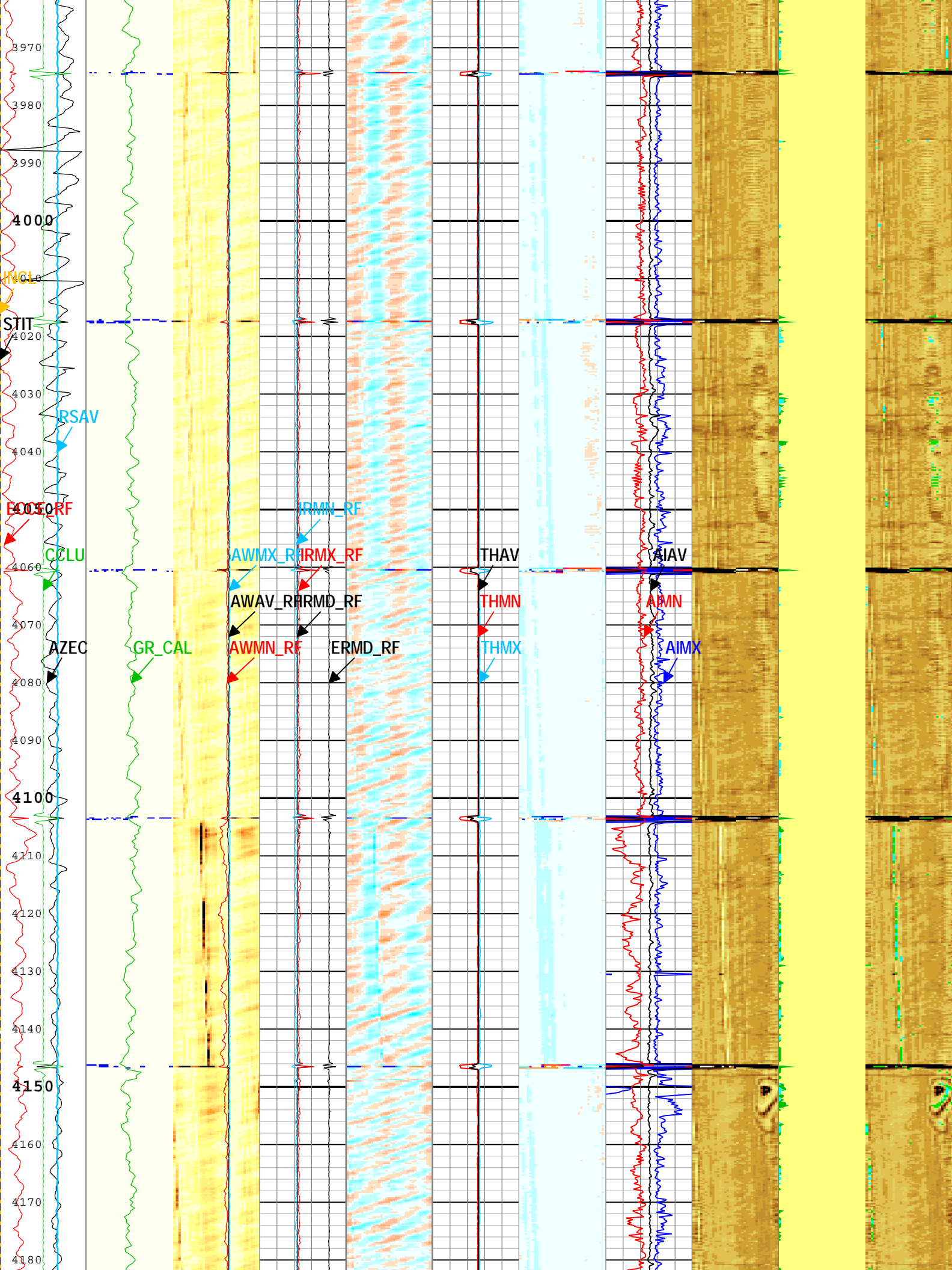


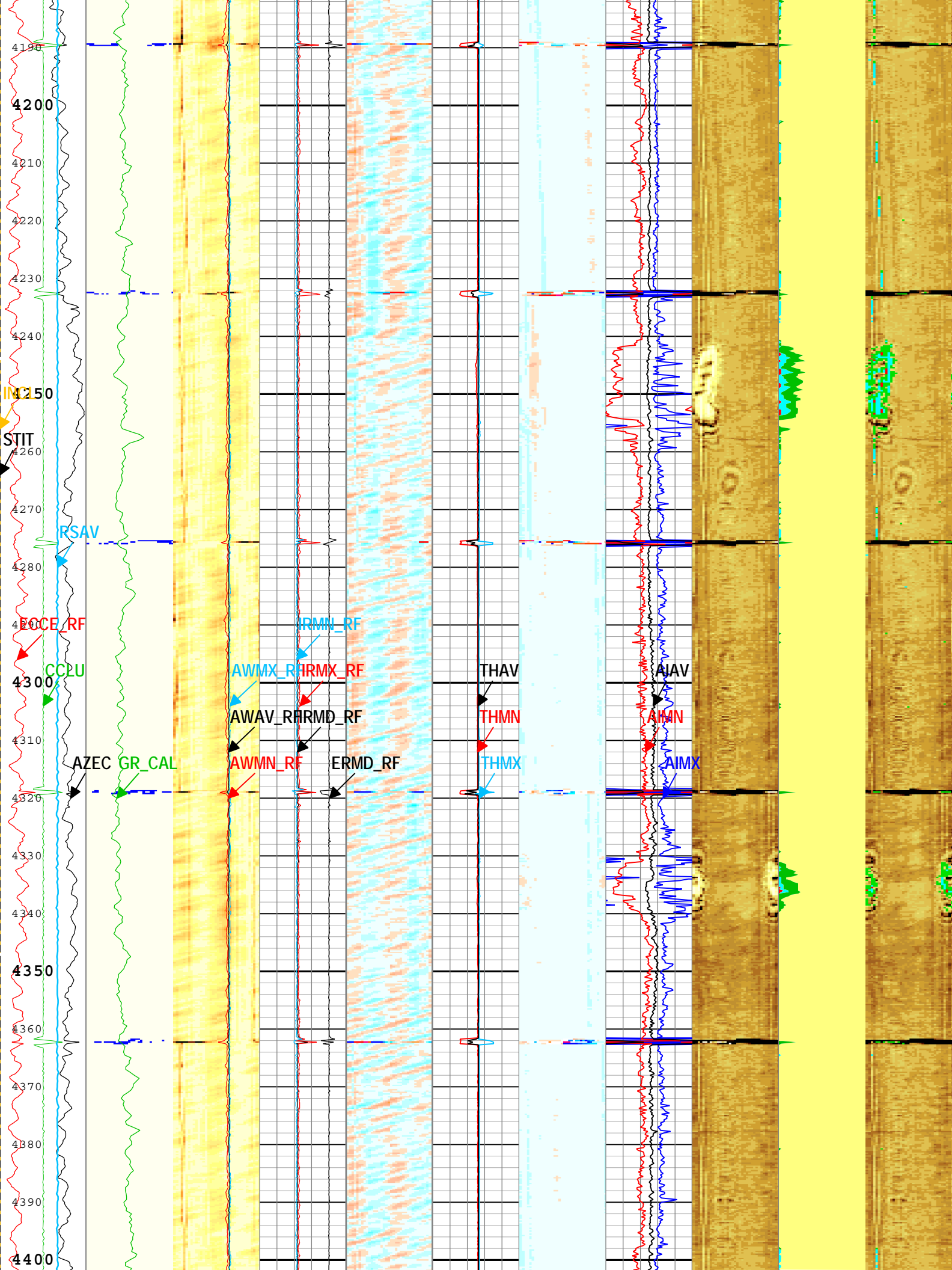


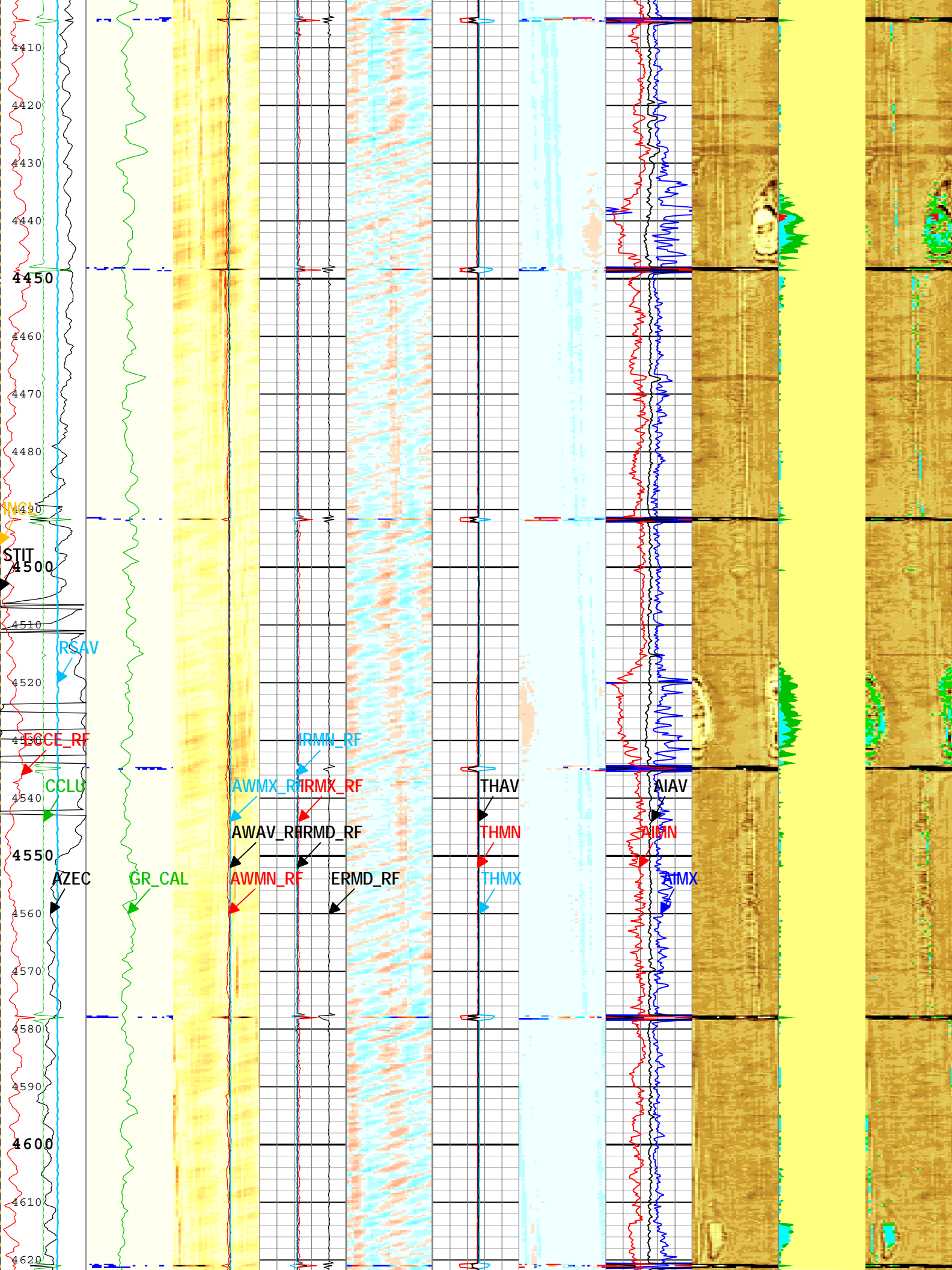


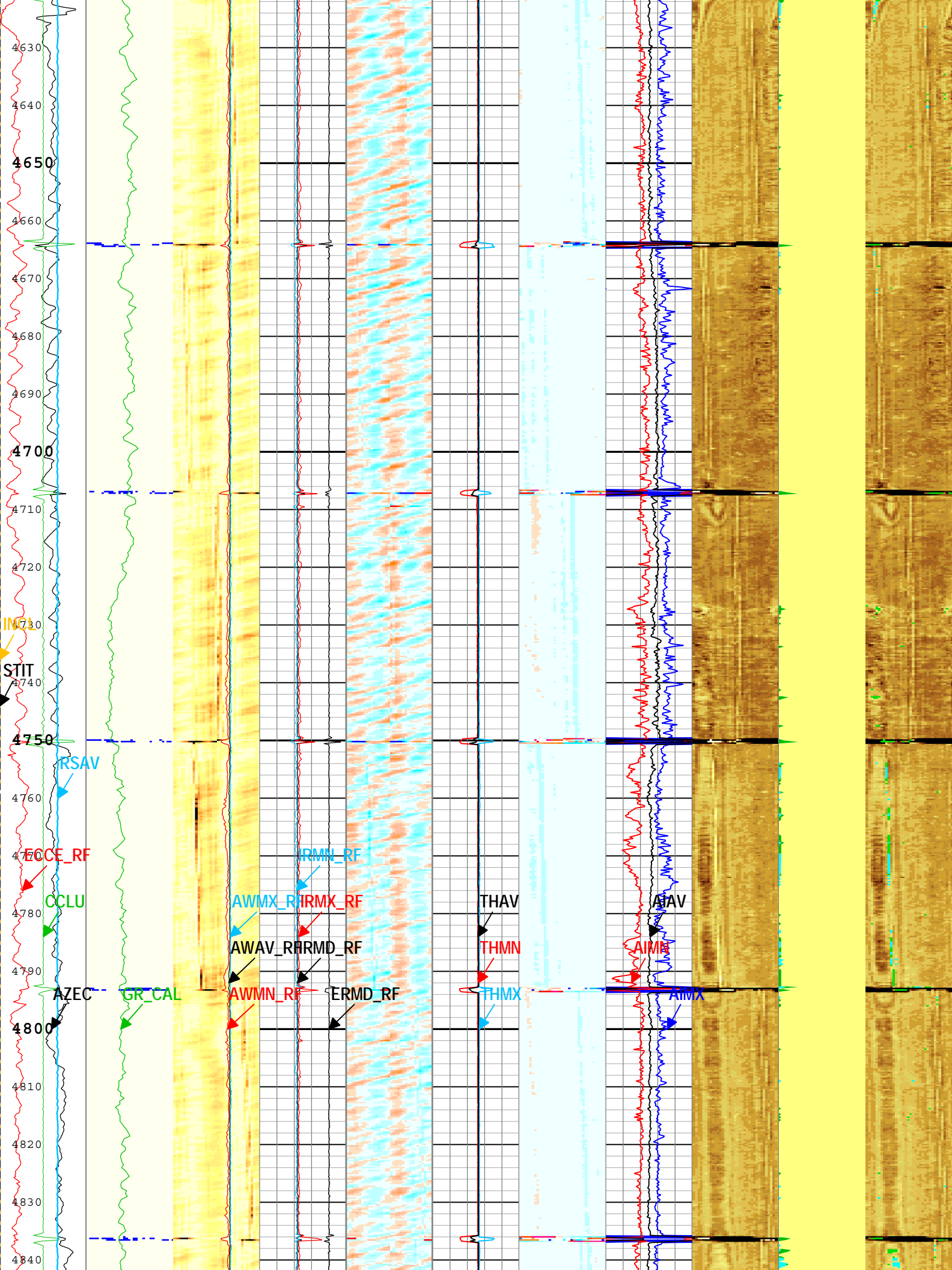


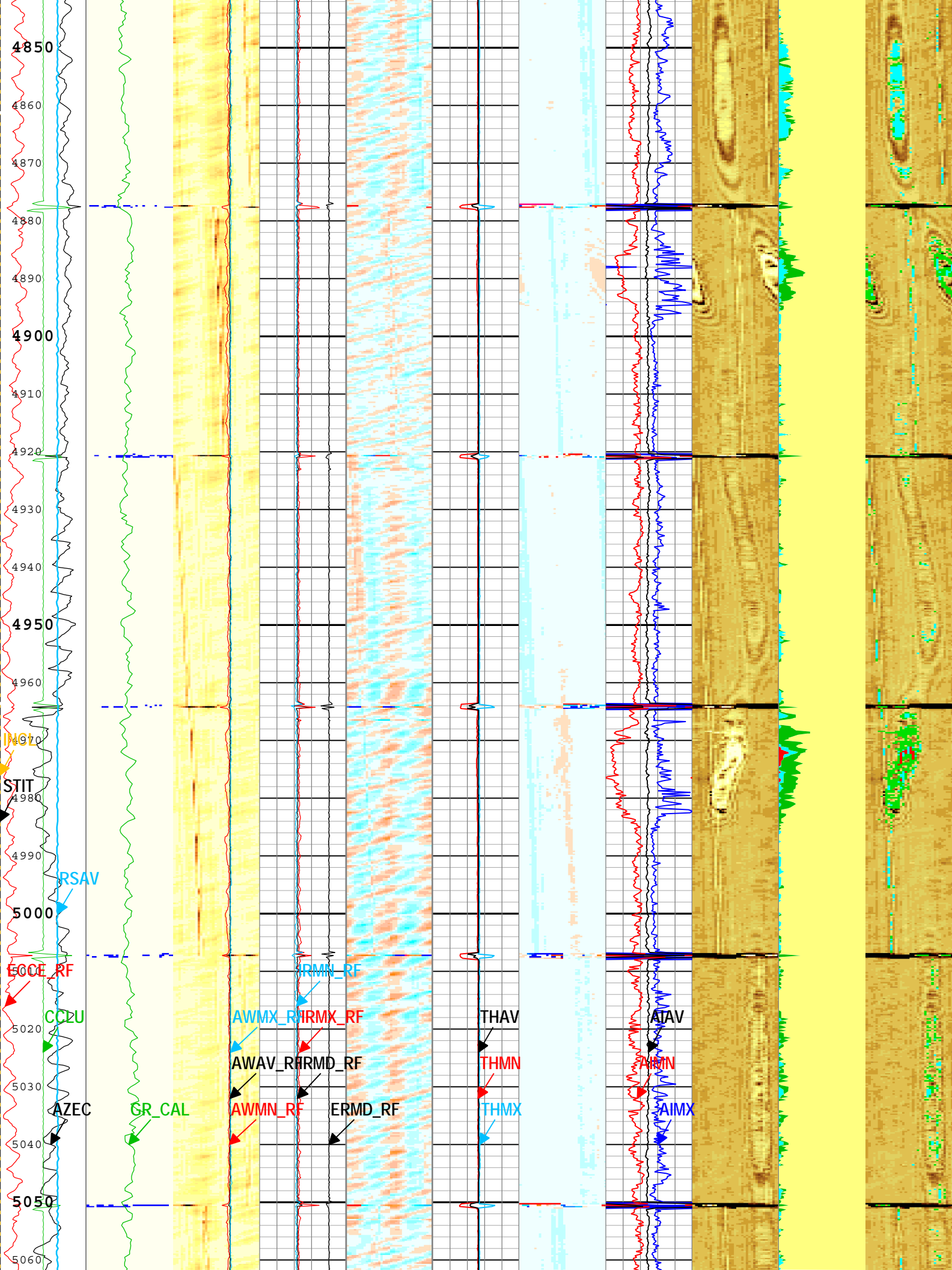


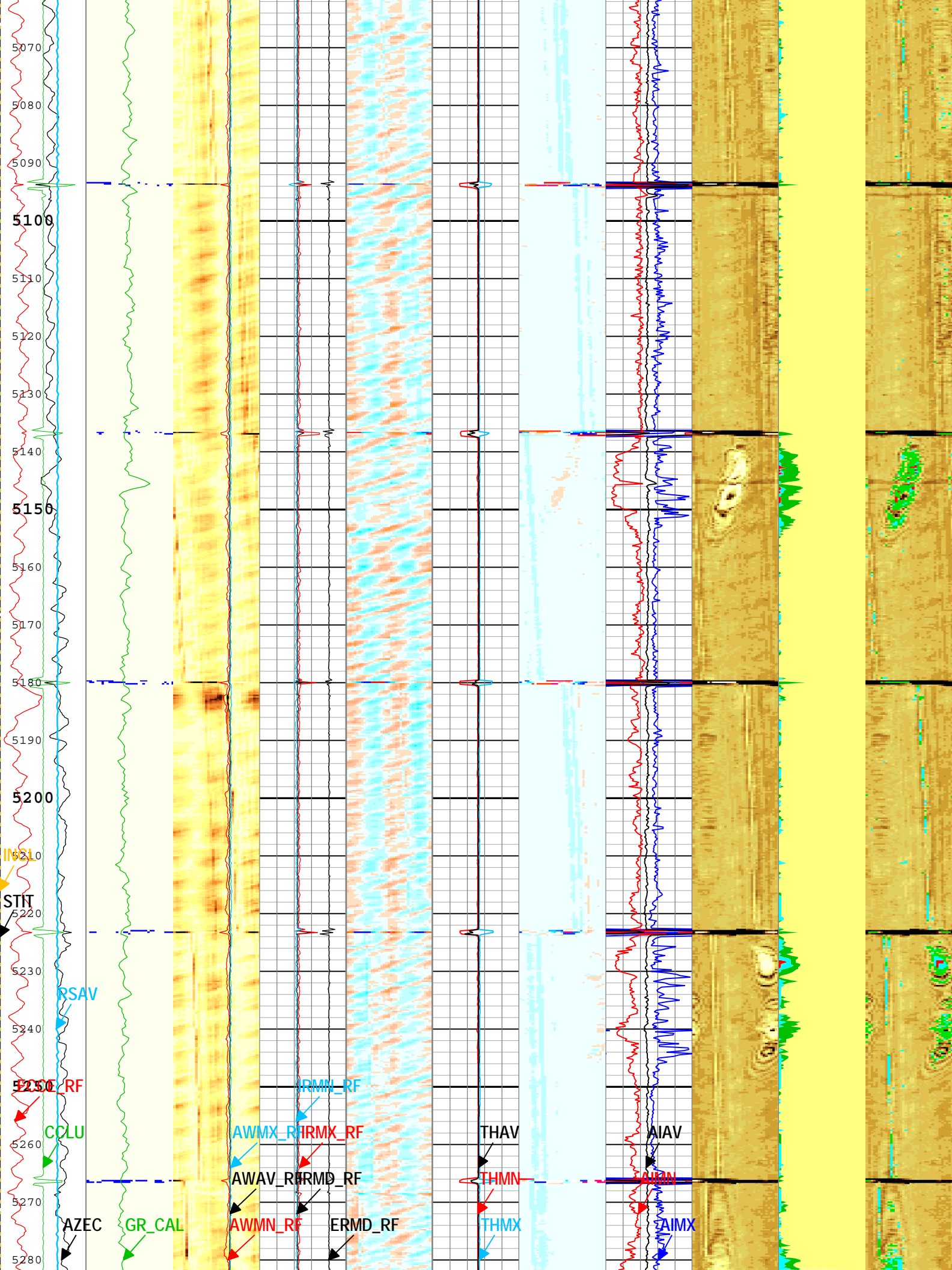


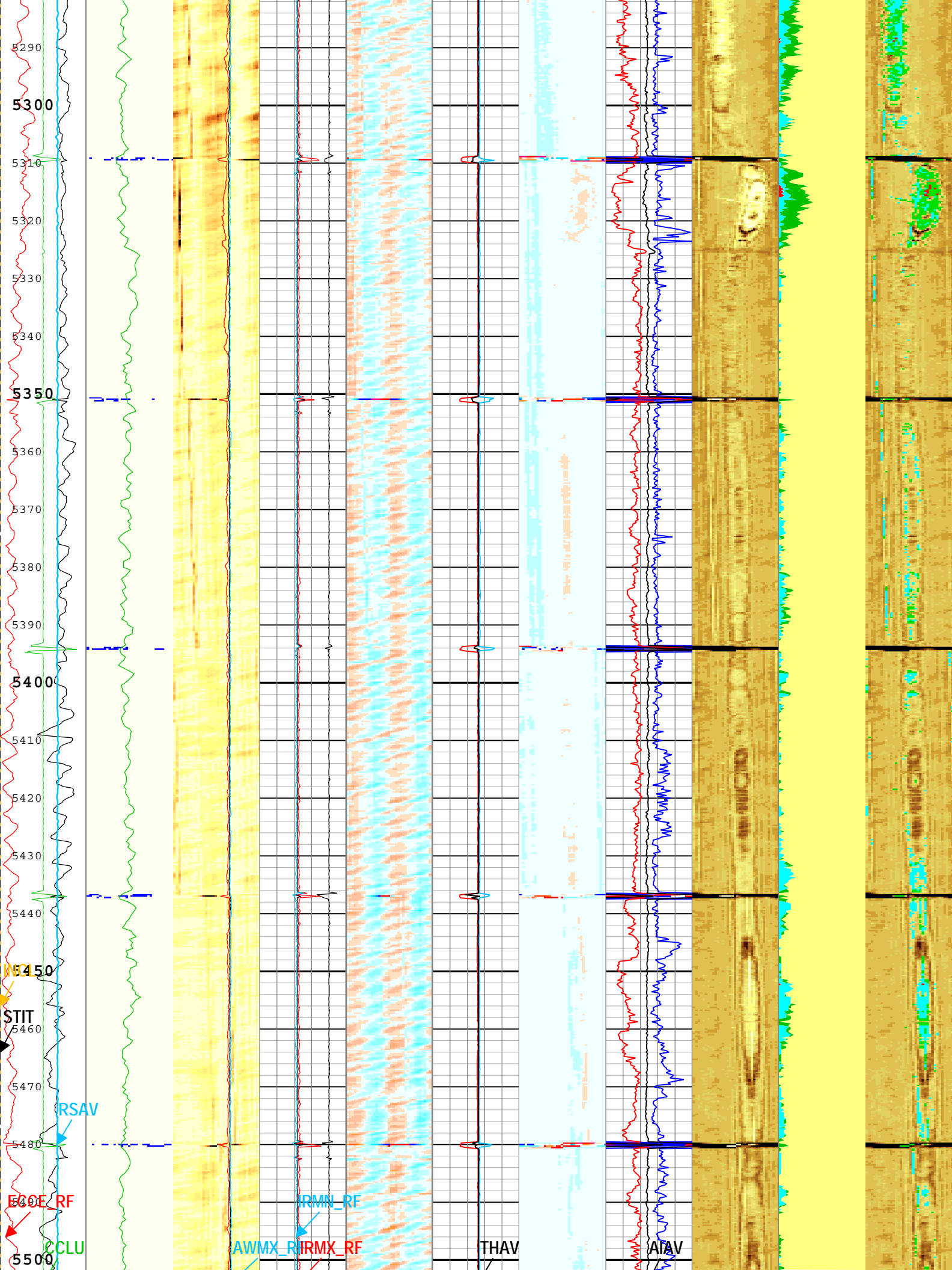


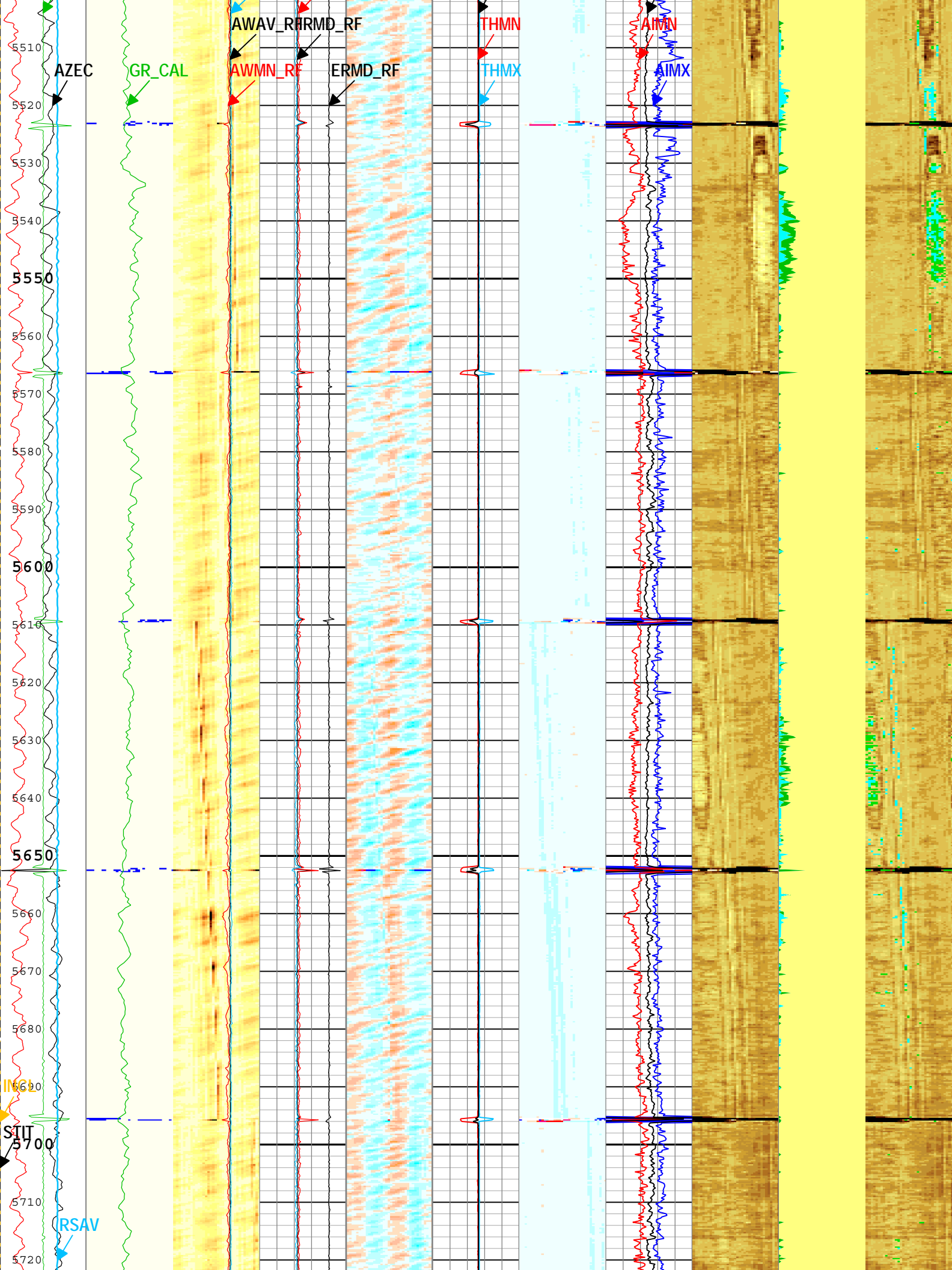


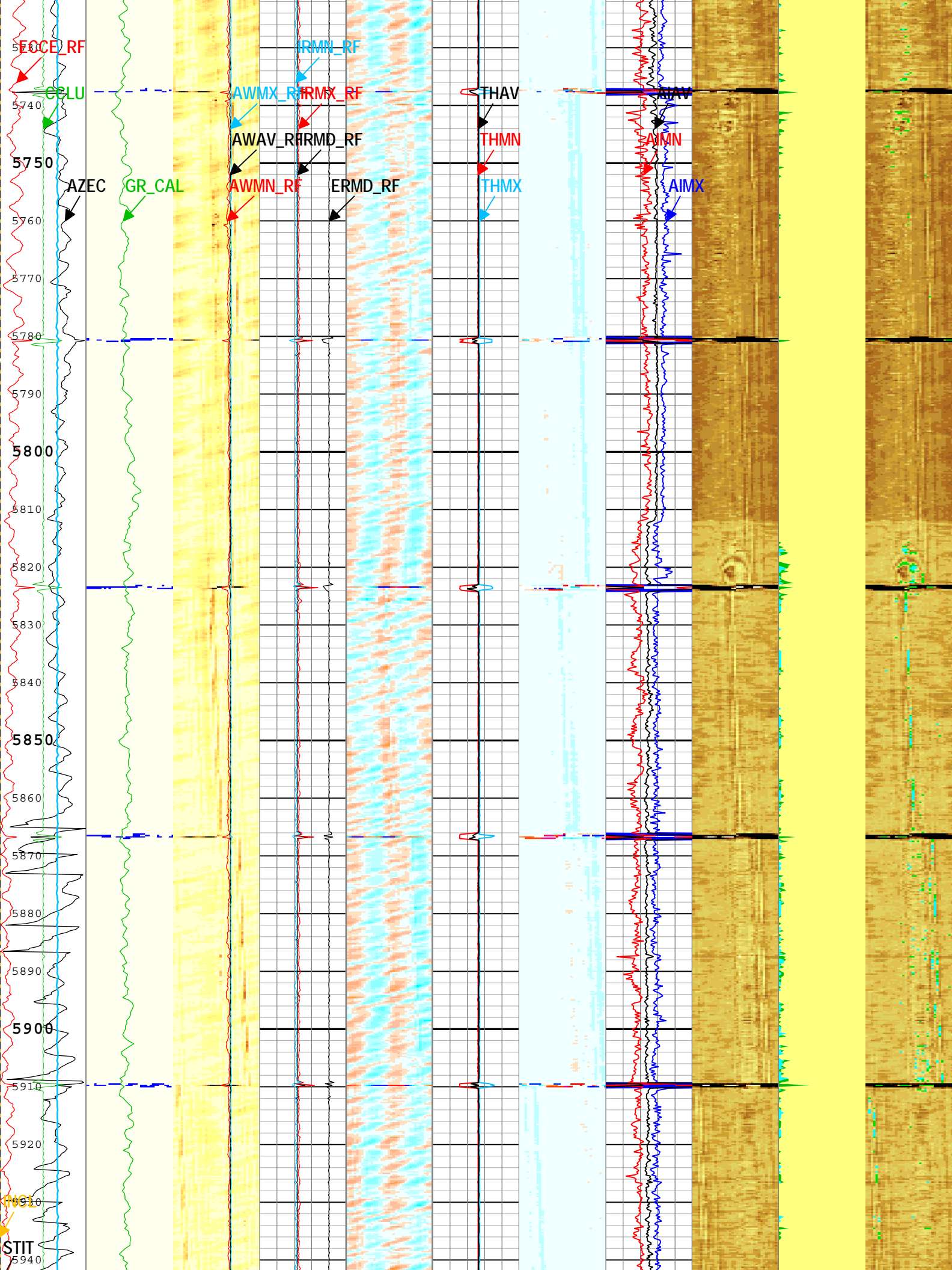


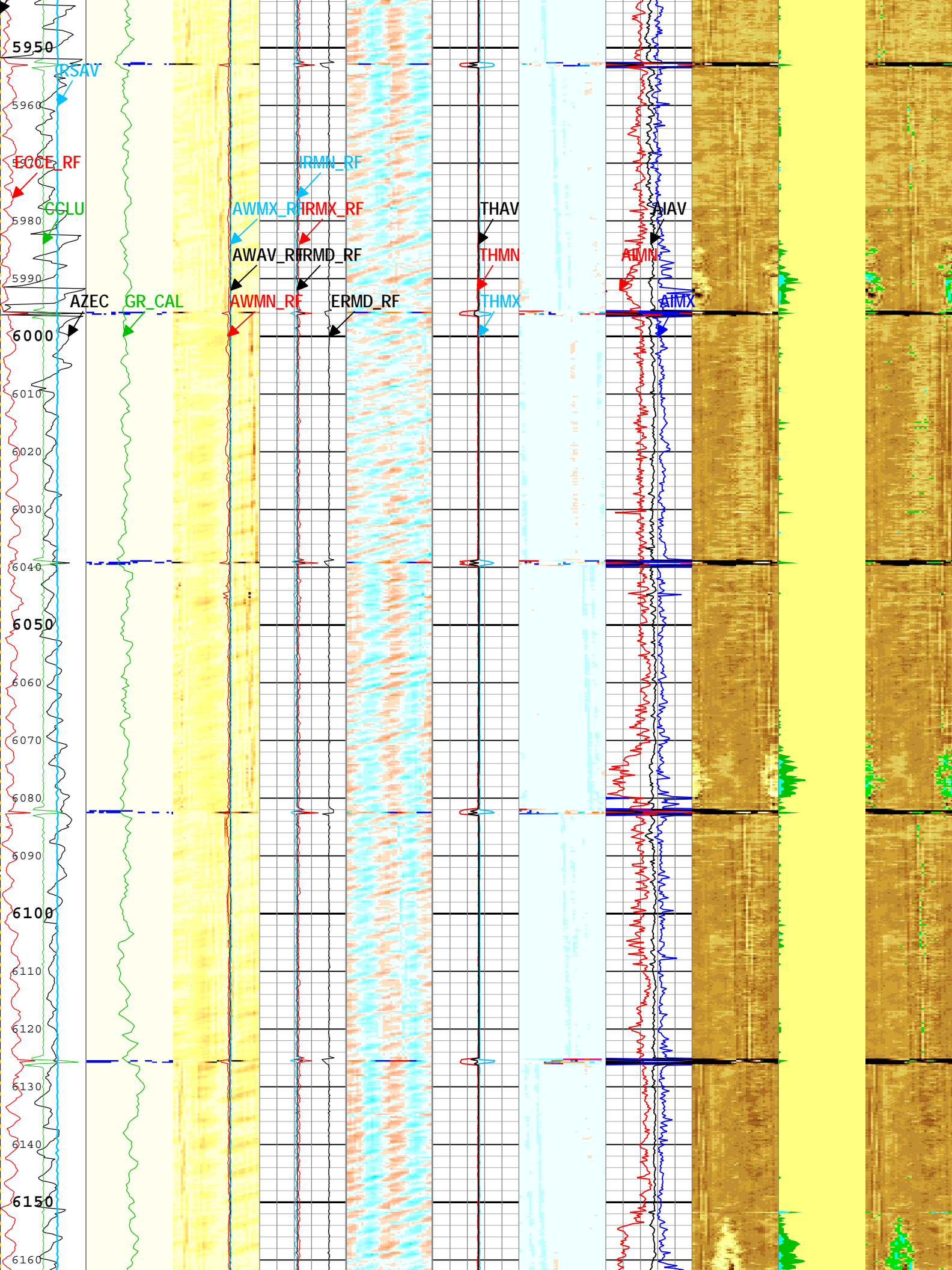


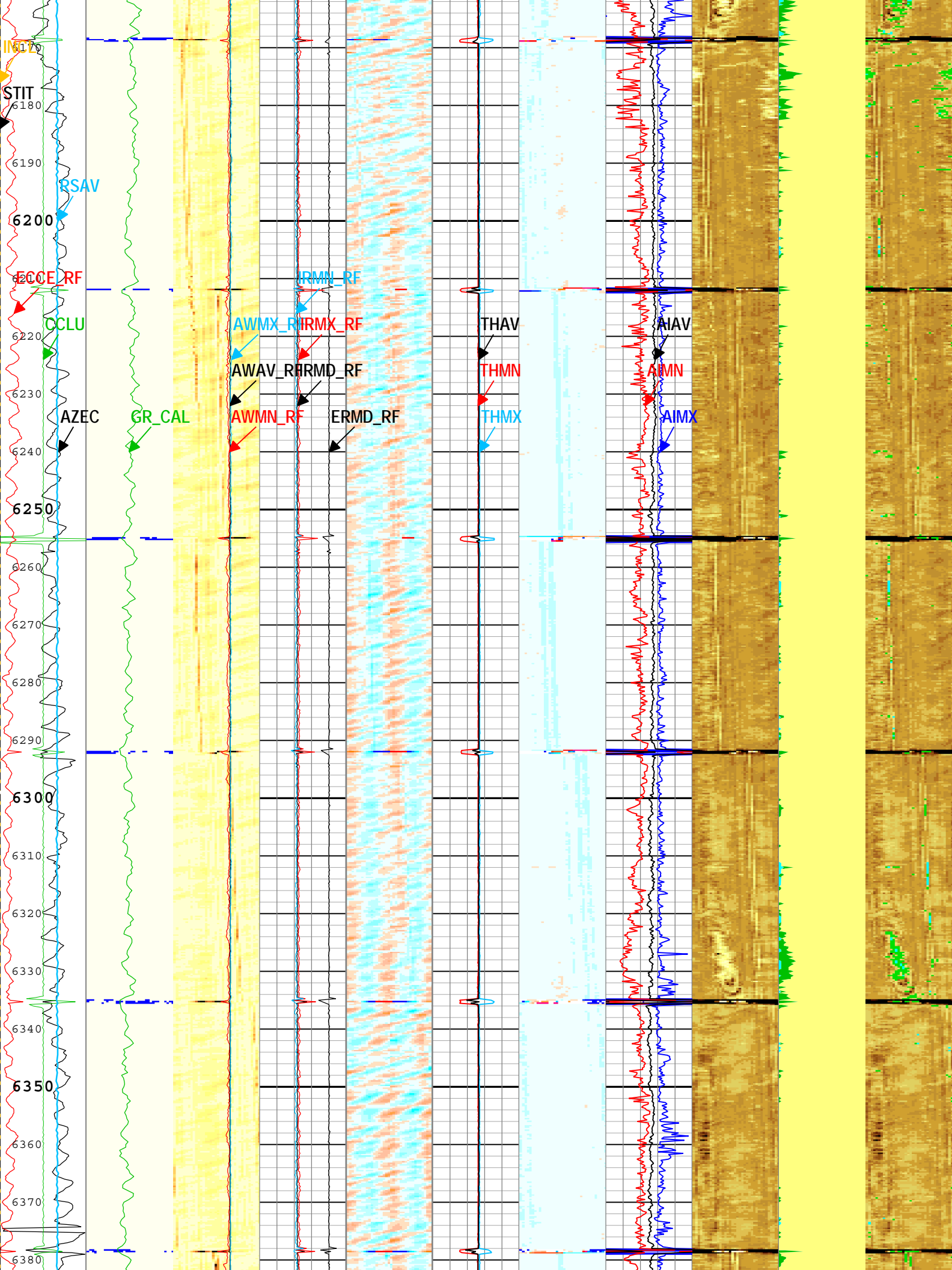


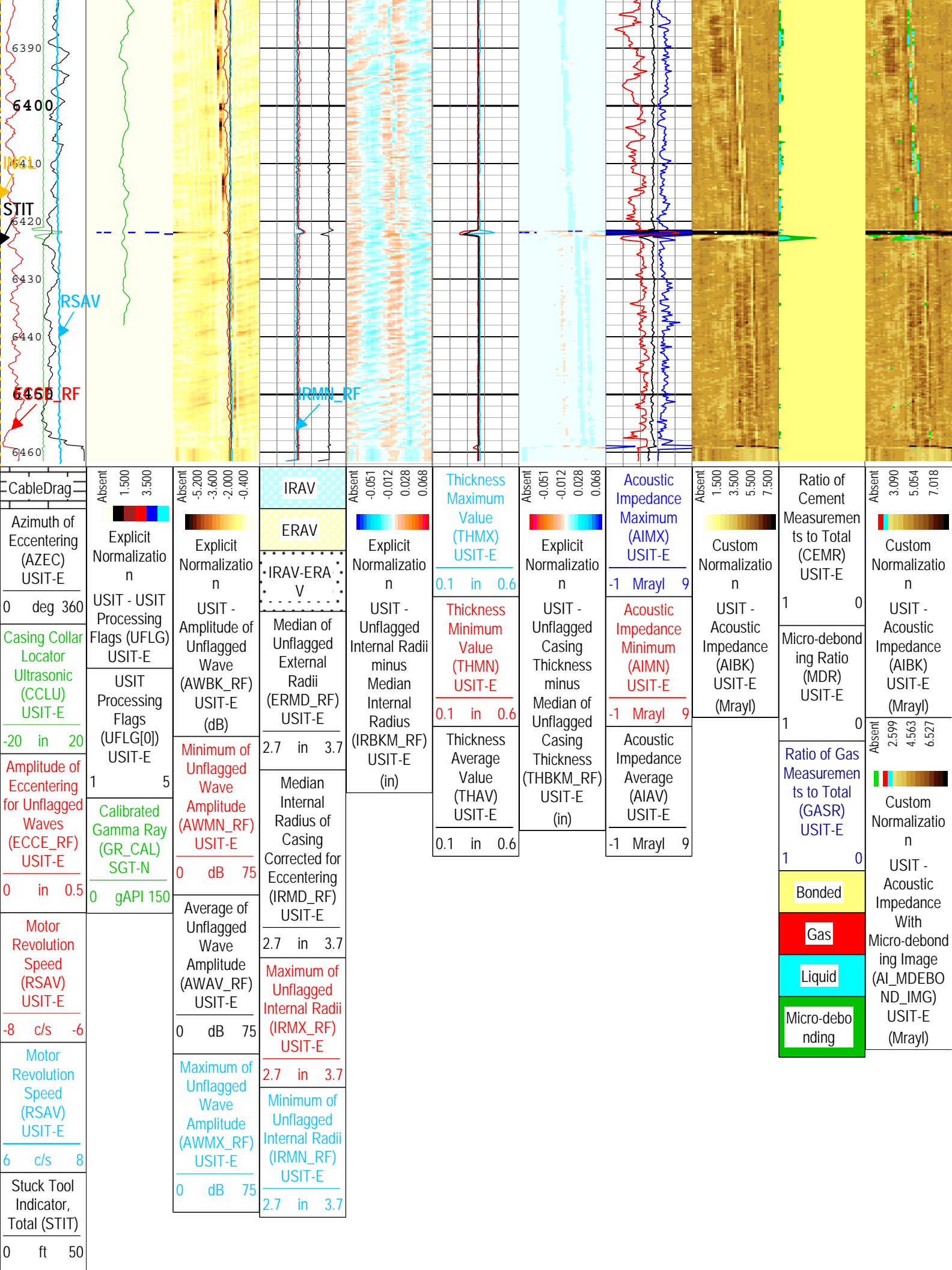












Hole inclination (INCL)

0 deg 100

TIME_1900 - Time Marked every 60.00 (s)

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

- 1 - UFLG 1 Value within [0.0 - 1.5] - :

UTIM Error
- 2 - UFLG 2 Value within [1.5 - 2.5] - :

Pulse Origin Not Detected
- 3 - UFLG 3 Value within [2.5 - 3.5] - :

WINLEN Error
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :

Casing Thickness Error
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

Loop Processing Error

Description: USI Composite Format: USI Composite Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 14-Aug-2014 10:06:32

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
AFVU	Automatic Fluid Velocity Update	USIT-E	On	
BARI	Barite Mud Presence Flag	Borehole	No	
BERJ	Bad Echo Rejection	USIT-E	On	
CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson ratio	
CMTY	Cement Type	USIT-E	Regular Cement	
CTHILGR	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.352	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
ETIP	Elevation of the TIP above MSL	WLSESSION	4973	ft
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GR_MULTIPLIER	Gamma Ray Multiplier	SGT-N	1	
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	Depth Zoned	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	0	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
OPELV	USIT Remove Flagged Data Level	USIT-E	OPT2	
RAPID_OPTION	Rapid Access Computation Option	USIT-E	Off	
RCOD	Reference Calibrator Outer Diameter	USIT-E	7	in
RCSO	Reference Calibrator Standoff	USIT-E	1.181	in
RCTH	Reference Calibrator Thickness	USIT-E	0.295	in
SDNV	Number of Vertical Samples used for Micro-debonding Computation	USIT-E	5	
SDTHOR	Acoustic Impedance STD Horizontal Threshold for Micro-debonding	USIT-E	0.5	Mrayl
SDTVR	Acoustic Impedance STD Vertical Threshold for Micro-debonding	USIT-E	0.3	Mrayl
TCUB	T^3 Processing Level	USIT-E	Loop	
TD	Total Measured Depth	Borehole	6460	ft
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
UDFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0	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	Manual	
UTHDP	Thickness Detection Policy	USIT-E	Fundamental	
VCAS	Ultrasonic Transversal Velocity in Casing	USIT-E	51.4	us/ft
ZCAS	Acoustic Impedance of Casing	USIT-E	46.25	Mrayl
ZINI	Initial Estimate of Cement Impedance	USIT-E	-1	Mrayl
ZMUD	Acoustic Impedance of Mud	Borehole	Depth Zoned	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)
MEAS_WLEN	22.5	0	6462.5
ZMUD	1.7	0	250
ZMUD	1.72	250	500
ZMUD	1.74	500	1200
ZMUD	1.76	1200	1600
ZMUD	1.78	1600	2200
ZMUD	1.8	2200	2900
ZMUD	1.81	2900	3500
ZMUD	1.82	3500	6462.5
All depth are actual.			

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	18	dB
DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOTF	Distance between Opposite Transducer Faces	USIT-E	2.874	in
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
USFR	Ultrasonic Sampling Frequency	USIT-E	500000	Hz
USI_UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
USI_UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 3.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	6460	ft
VRES	Vertical Resolution	USIT-E	3.0 in	
WINB	Window Begin Time	USIT-E	25	us
WINE	Window End Time	USIT-E	78.4	us

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	125	13-Aug-2014 17:33:22	13-Aug-2014 17:41:46	6462.29	6450.32
EMXV	120	13-Aug-2014 17:41:46	13-Aug-2014 17:41:52	6450.32	6447.61
EMXV	115	13-Aug-2014 17:41:52	13-Aug-2014 17:41:53	6447.61	6446.81
EMXV	110	13-Aug-2014 17:41:53	13-Aug-2014 17:42:00	6446.81	6443.81
EMXV	105	13-Aug-2014 17:42:00	13-Aug-2014 17:42:05	6443.81	6441.3

EMXV	100	13-Aug-2014 17:42:05	13-Aug-2014 17:51:47	6441.3	5498.3
EMXV	98	13-Aug-2014 17:51:47	13-Aug-2014 17:51:51	5498.3	5491.8
EMXV	95	13-Aug-2014 17:51:51	13-Aug-2014 17:51:55	5491.8	5484.16
EMXV	93	13-Aug-2014 17:51:55	13-Aug-2014 17:52:22	5484.16	5437.57
EMXV	90	13-Aug-2014 17:52:22	13-Aug-2014 17:53:36	5437.57	5312.07
EMXV	93	13-Aug-2014 17:53:36	13-Aug-2014 17:53:41	5312.07	5303.29
EMXV	96	13-Aug-2014 17:53:41	13-Aug-2014 18:01:13	5303.29	4531.22
EMXV	93	13-Aug-2014 18:01:13	13-Aug-2014 18:01:20	4531.22	4518.67
EMXV	90	13-Aug-2014 18:01:20	13-Aug-2014 18:07:58	4518.67	3832.74
EMXV	93	13-Aug-2014 18:07:58	13-Aug-2014 18:08:11	3832.74	3810.93
EMXV	96	13-Aug-2014 18:08:11	13-Aug-2014 18:26:50	3810.93	1887.59
EMXV	100	13-Aug-2014 18:26:50	13-Aug-2014 18:27:19	1887.59	1837.87
EMXV	105	13-Aug-2014 18:27:19	13-Aug-2014 18:27:24	1837.87	1828.36
EMXV	108	13-Aug-2014 18:27:24	13-Aug-2014 18:34:41	1828.36	1081.88
EMXV	110	13-Aug-2014 18:34:41	13-Aug-2014 18:34:47	1081.88	1072.72
EMXV	112	13-Aug-2014 18:34:47	13-Aug-2014 18:34:50	1072.72	1066.48
EMXV	115	13-Aug-2014 18:34:50	13-Aug-2014 18:34:54	1066.48	1060.81
EMXV	118	13-Aug-2014 18:34:54	13-Aug-2014 18:34:58	1060.81	1053.09
EMXV	120	13-Aug-2014 18:34:58	13-Aug-2014 18:35:11	1053.09	1030.32
EMXV	125	13-Aug-2014 18:35:11	13-Aug-2014 18:51:56	1030.32	10.51

All depth are at tool zero.

USI Goodwin

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Main[3]:Up	6462.29	10.51

Fluid Velocity = "Automatic".
CFVL equals DFSL channel

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

Mud Impedance = "Manual".
CZMD uses ZMUD parameter zoned table below

Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
0	250	1.7	1.7
250	500	1.72	1.72
500	1200	1.74	1.74
1200	1600	1.76	1.76
1600	2200	1.78	1.78
2200	2900	1.8	1.8
2900	3500	1.81	1.81
3500		1.82	1.82

Run 1

USI Goodwin Compressed

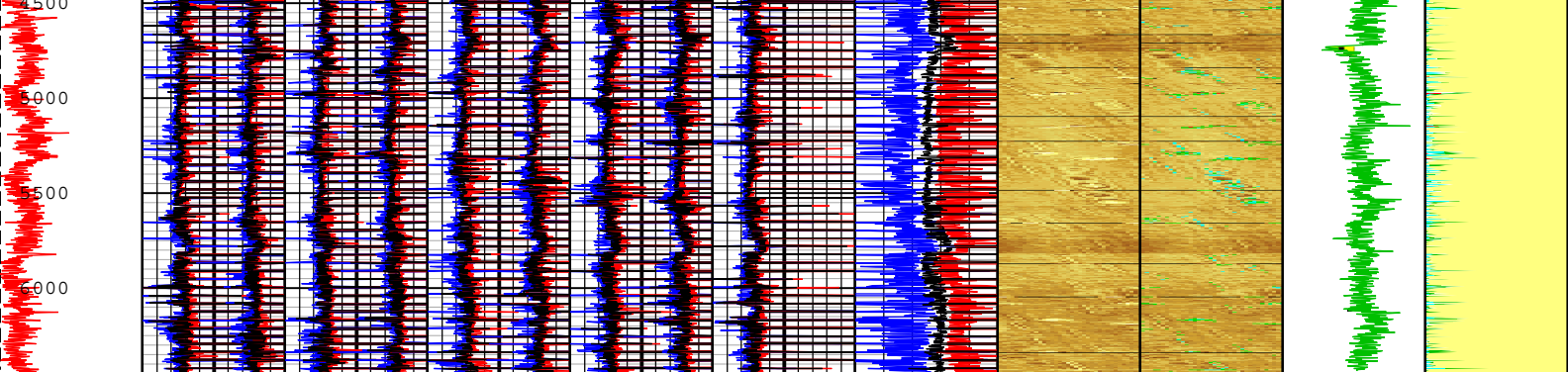
Log	Company:Anadarko Petroleum Company	Well:Benson Farms 12N-23HZ
	Run 1 : Main[3]:Up:S003	

Description: USI Goodwin Format: USI Goodwin Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 14-Aug-2014 10:06:42

TIME_1900 - Time Marked every 60.00 (s)

Minimum Acoustic	Minimum Acoustic	Minimum Acoustic	Minimum Acoustic
------------------	------------------	------------------	------------------

[illegible]



Amplitude of Eccentering (ECCE) USIT-E	Minimum Acoustic Impedance 1 (MIN_AI1) USIT-E	Minimum Acoustic Impedance 3 (MIN_AI3) USIT-E	Minimum Acoustic Impedance 5 (MIN_AI5) USIT-E	Minimum Acoustic Impedance 7 (MIN_AI7) USIT-E	Minimum Acoustic Impedance 9 (MIN_AI9) USIT-E	Acoustic Impedance Minimum (AIMN) USIT-E	<div>Absent 1.500 3.500 5.500 7.500</div> <div>Custom Normalization</div> <div>USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)</div>	<div>Absent 2.599 4.563 6.527</div> <div>Custom Normalization</div> <div>USIT - Acoustic Impedance With Micro-debonding Image (AI_MDEBOND_IMG) USIT-E (Mrayl)</div>	GR<75	Micro-Debonded
	0 in 0.5	0 Mrayl 15	0 Mrayl 15	0 Mrayl 15	0 Mrayl 15	0 Mrayl 7.5			Gamma Ray (GR) SGT-N	Gas
	Maximum Acoustic Impedance 1 (MAX_AI1) USIT-E	Maximum Acoustic Impedance 3 (MAX_AI3) USIT-E	Maximum Acoustic Impedance 5 (MAX_AI5) USIT-E	Maximum Acoustic Impedance 7 (MAX_AI7) USIT-E	Maximum Acoustic Impedance 9 (MAX_AI9) USIT-E	Acoustic Impedance Maximum (AIMX) USIT-E			0 gAPI 150	Liquid
	0 Mrayl 15	0 Mrayl 15	0 Mrayl 15	0 Mrayl 15	0 Mrayl 15	0 Mrayl 7.5			Bonded	
	Average Acoustic Impedance 1 (AV_AI1) USIT-E	Average Acoustic Impedance 3 (AV_AI3) USIT-E	Average Acoustic Impedance 5 (AV_AI5) USIT-E	Average Acoustic Impedance 7 (AV_AI7) USIT-E	Average Acoustic Impedance 9 (AV_AI9) USIT-E	Acoustic Impedance Average (AIAV) USIT-E				
	0 Mrayl 15	0 Mrayl 15	0 Mrayl 15	0 Mrayl 15	0 Mrayl 15	0 Mrayl 7.5				
	Minimum Acoustic Impedance 2 (MIN_AI2) USIT-E	Minimum Acoustic Impedance 4 (MIN_AI4) USIT-E	Minimum Acoustic Impedance 6 (MIN_AI6) USIT-E	Minimum Acoustic Impedance 8 (MIN_AI8) USIT-E						
	-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5						
	Maximum Acoustic Impedance 2 (MAX_AI2) USIT-E	Maximum Acoustic Impedance 4 (MAX_AI4) USIT-E	Maximum Acoustic Impedance 6 (MAX_AI6) USIT-E	Maximum Acoustic Impedance 8 (MAX_AI8) USIT-E						
	-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5						
	Average Acoustic Impedance 2 (AV_AI2) USIT-E	Average Acoustic Impedance 4 (AV_AI4) USIT-E	Average Acoustic Impedance 6 (AV_AI6) USIT-E	Average Acoustic Impedance 8 (AV_AI8) USIT-E						
	-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5	-7.5Mrayl 7.5						

Mud Impedance = "Manual".
CZMD uses ZMUD parameter zoned table below

Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
0	250	1.7	1.7
250	500	1.72	1.72
500	1200	1.74	1.74
1200	1600	1.76	1.76
1600	2200	1.78	1.78
2200	2900	1.8	1.8
2900	3500	1.81	1.81
3500		1.82	1.82

Run 1

0 PSI Pass

Log






Company:Anadarko Petroleum Company

Well:Benson Farms 12N-23HZ

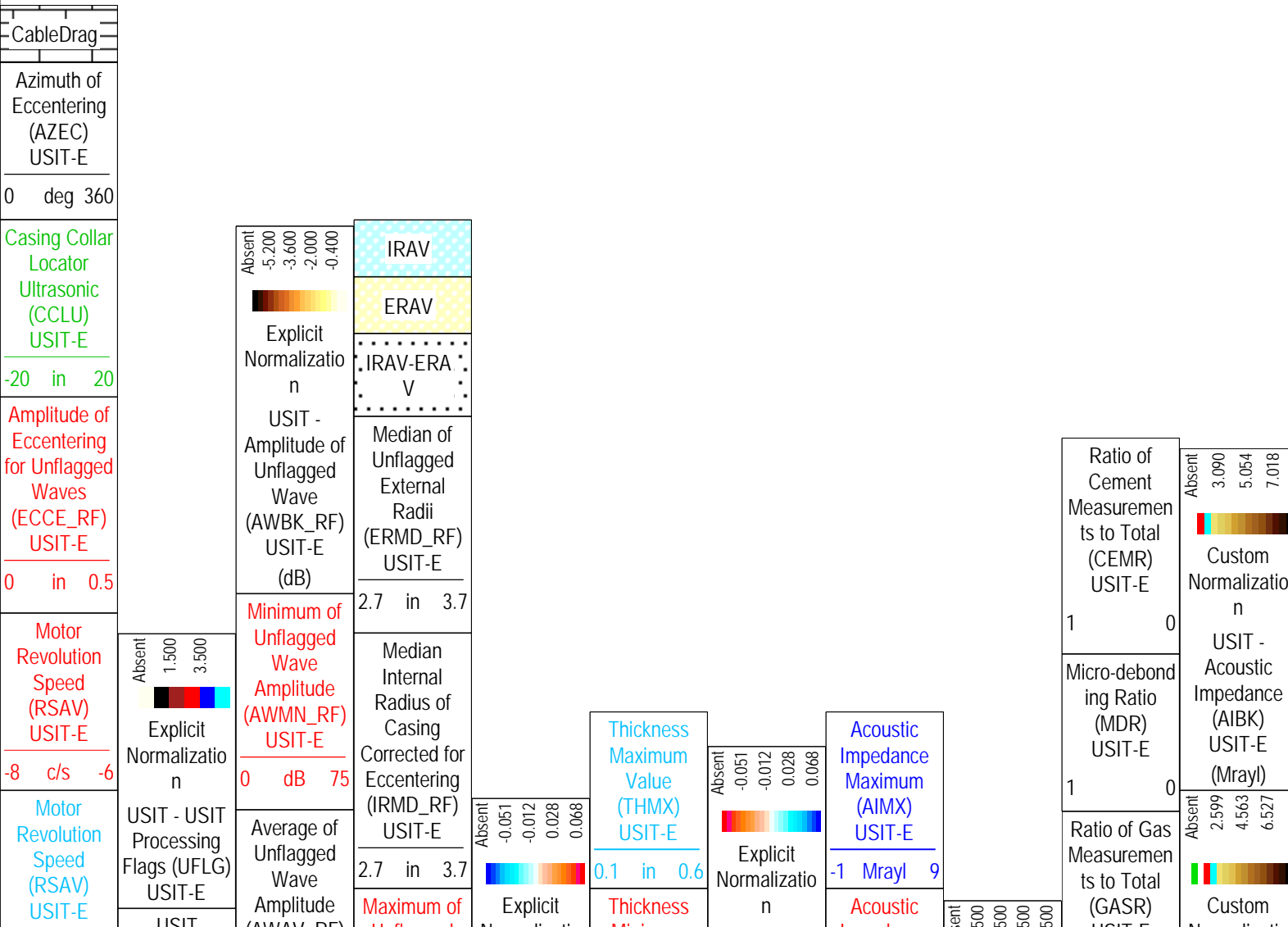
Run 1 : Log[2]:Up:S003

Description: USI Composite Format: USI Composite Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 14-Aug-2014 10:06:47

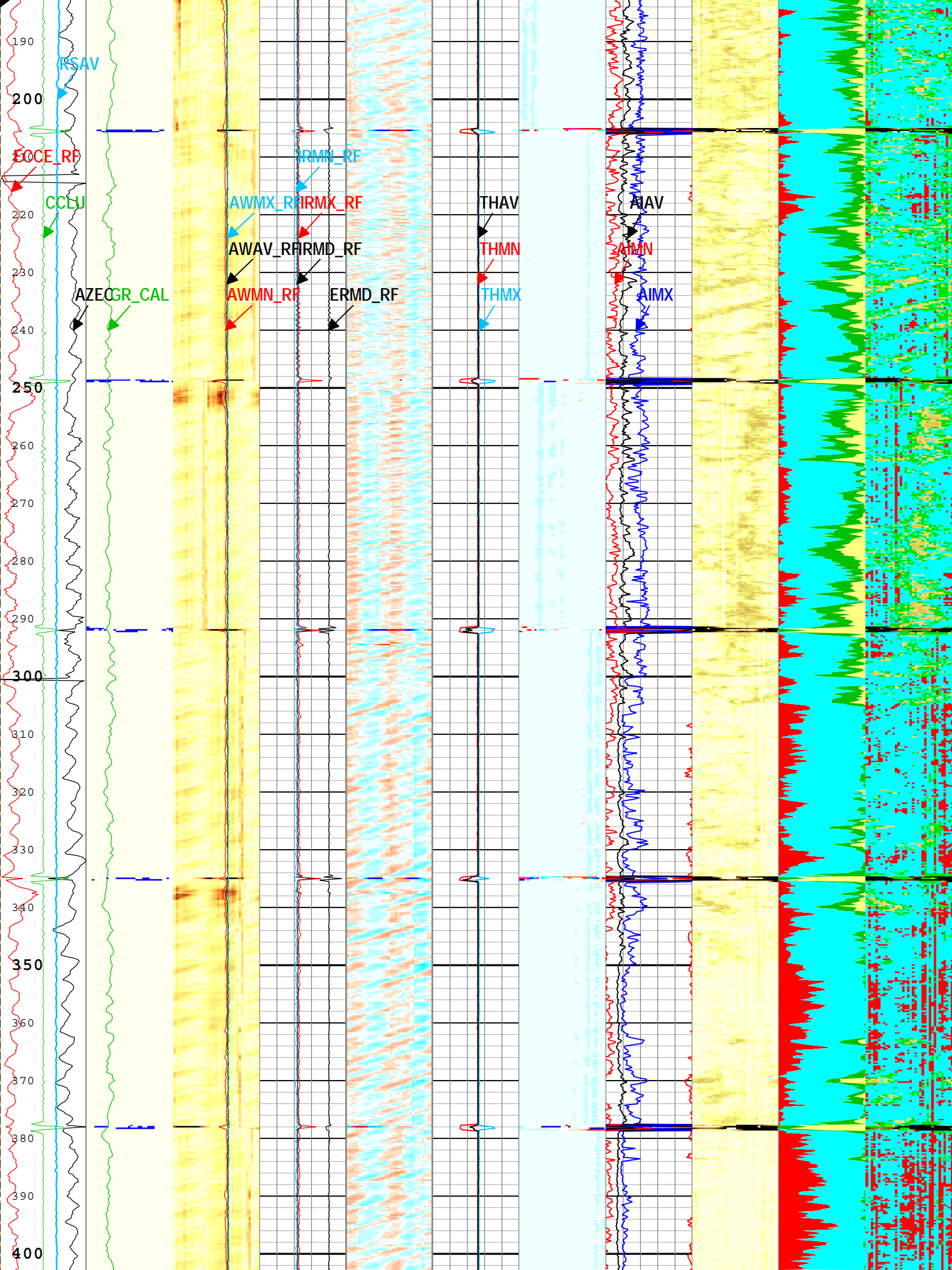
USIT Processing Flags (UFLG[0]) USIT-E

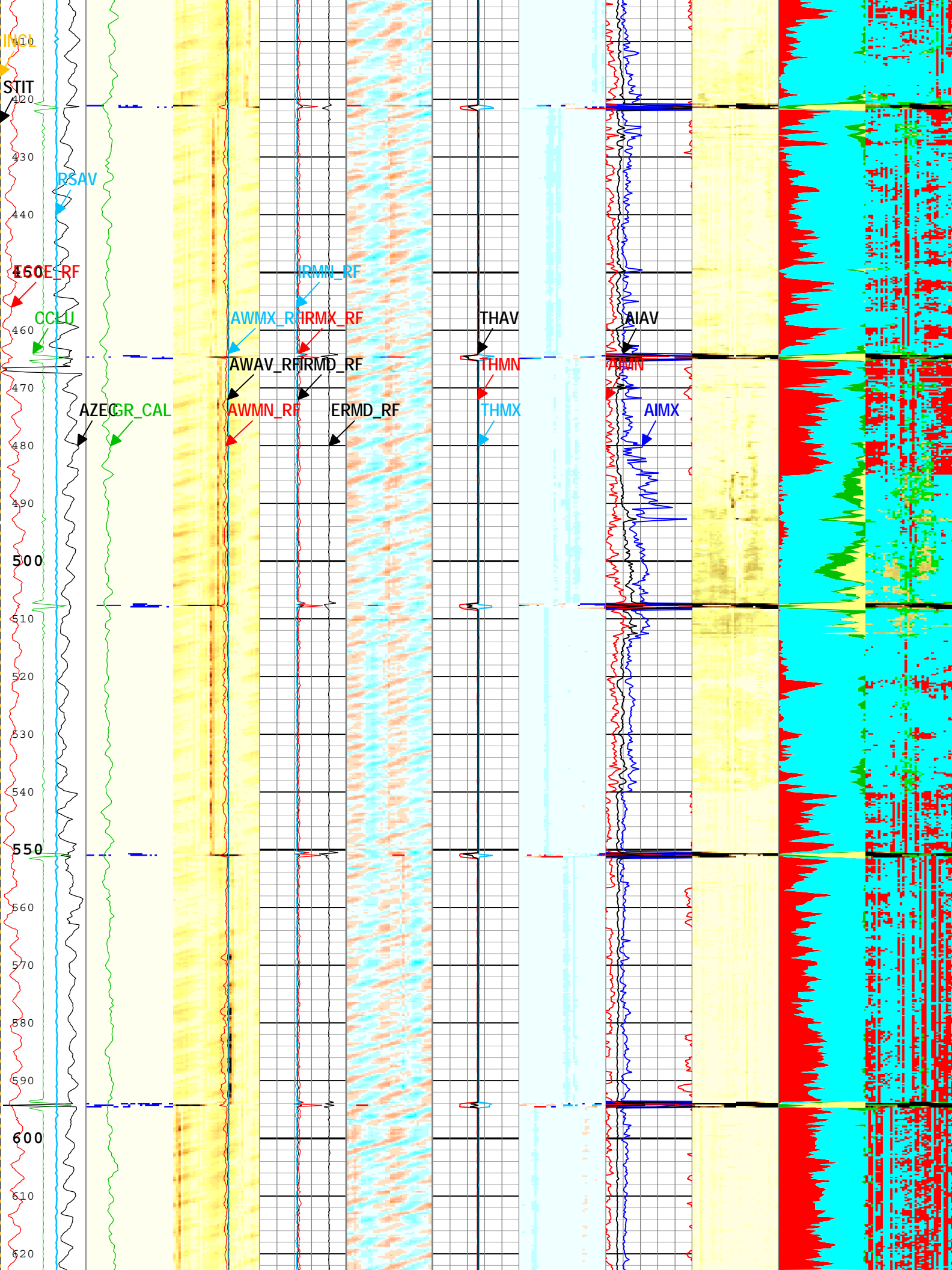
- | | |
|---|---|
| 1 - UFLG 1 Value within [0.0 - 1.5] - : |  UTIM Error |
| 2 - UFLG 2 Value within [1.5 - 2.5] - : |  Pulse Origin Not Detected |
| 3 - UFLG 3 Value within [2.5 - 3.5] - : |  WINLEN Error |
| 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : |  Casing Thickness Error |
| 5 - UFLG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

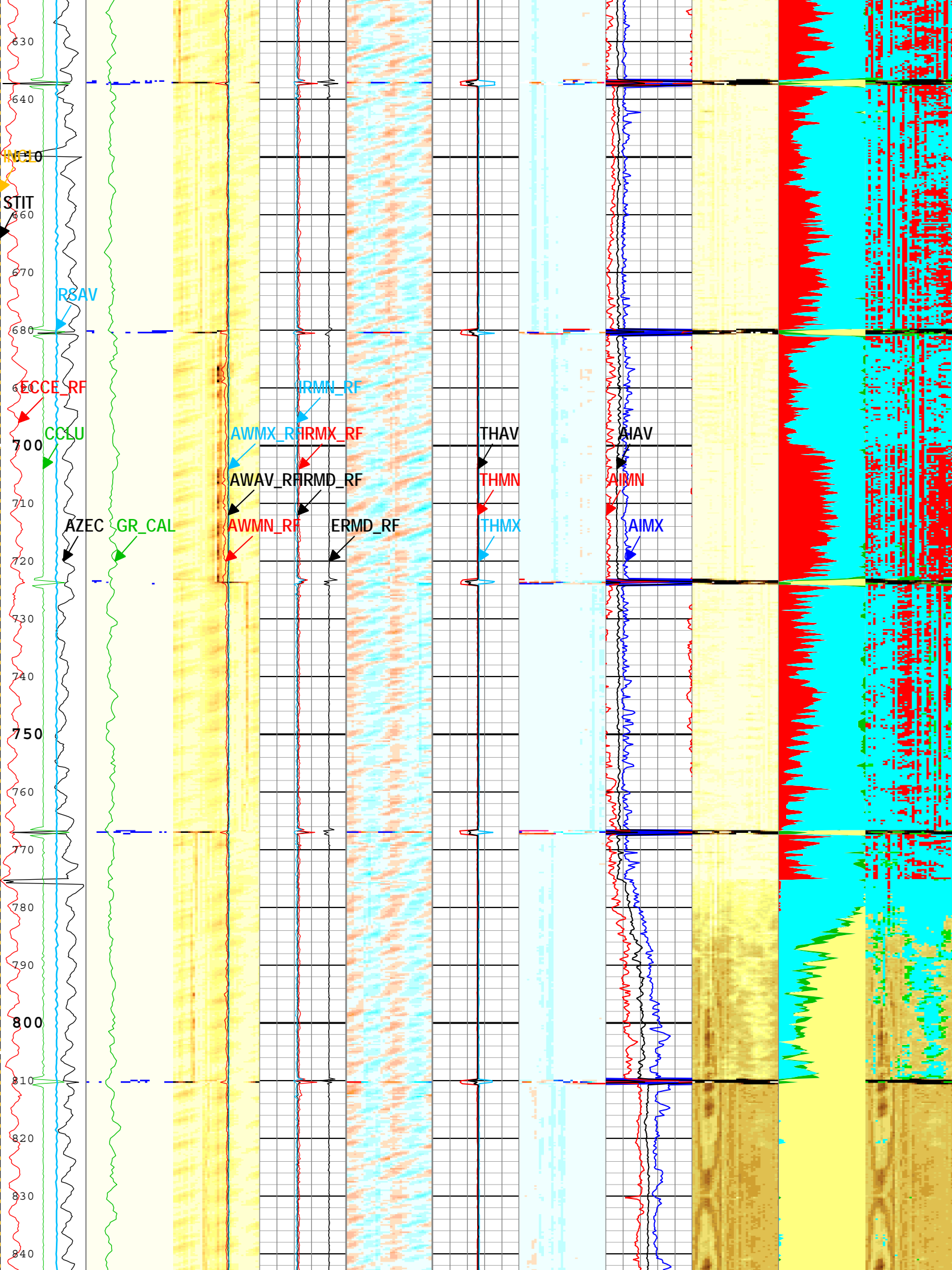
TIME_1900 - Time Marked every 60.00 (s)

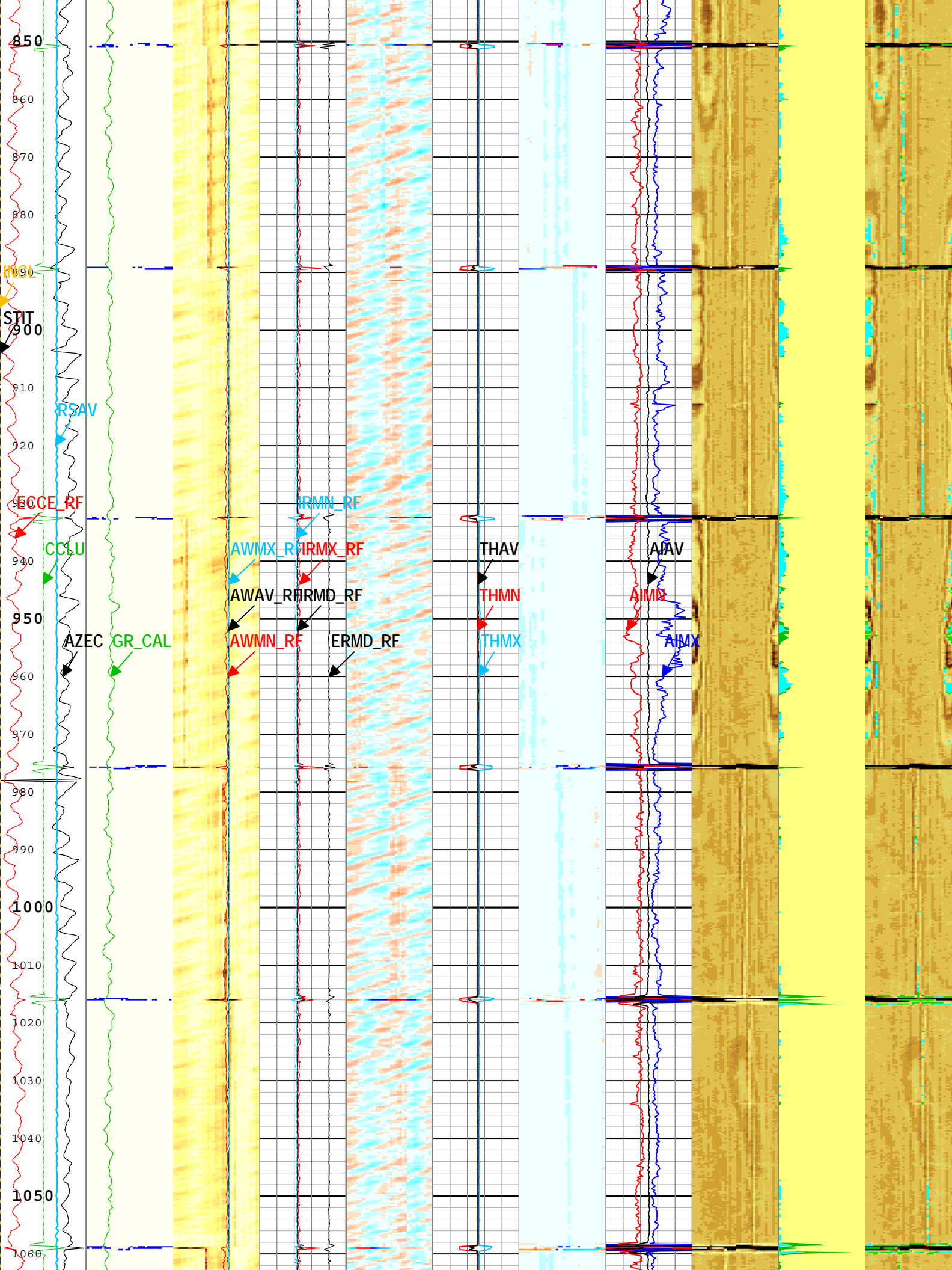


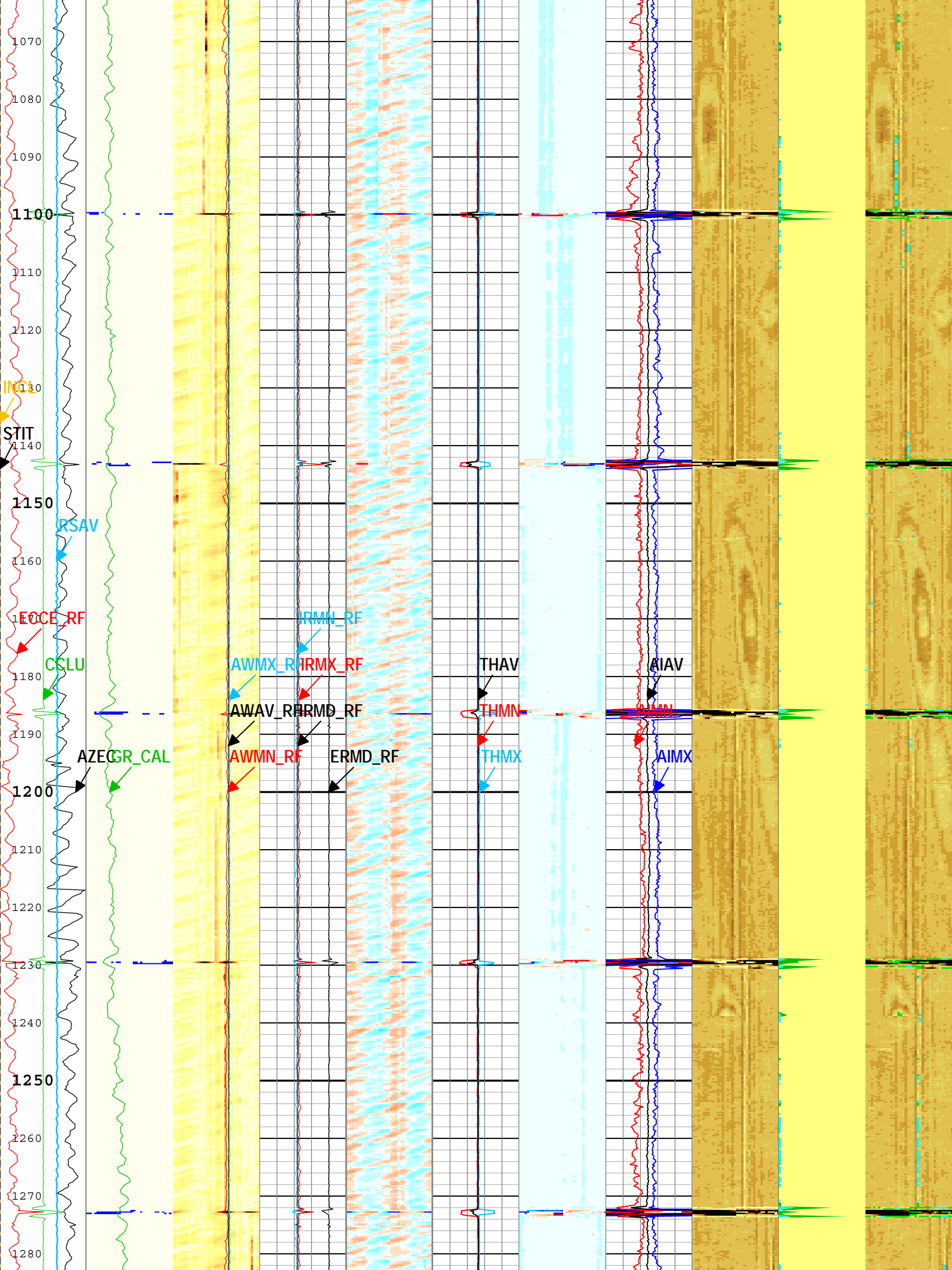
6	c/s	8	USIT Processing Flags (UFLG[0]) USIT-E	(AWAV_RF) USIT-E		Unflagged Internal Radii (IRMX_RF) USIT-E		Normalization USIT - Unflagged Internal Radii minus Median Internal Radius (IRBKM_RF) USIT-E (in)	Minimum Value (THMN) USIT-E		USIT - Unflagged Casing Thickness minus Median of Unflagged Casing Thickness (THBKM_RF) USIT-E (in)	Impedance Minimum (AIMN) USIT-E		Abs Custom Normalization USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)	USIT-E		Normalization USIT - Acoustic Impedance With Micro-debonding Image (AI_MDEBOND_IMG) USIT-E (Mrayl)	
				0	dB	75	2.7		in	3.7		0.1	in		0.6	-1		Mrayl
Stuck Tool Indicator, Total (STIT)			1	Maximum of Unflagged Wave Amplitude (AWMX_RF) USIT-E		Minimum of Unflagged Internal Radii (IRMN_RF) USIT-E		Thickness Average Value (THAV) USIT-E		Acoustic Impedance Average (AIAV) USIT-E		USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)		Bonded		Gas		
Hole inclination (INCL)			0	Calibrated Gamma Ray (GR_CAL) SGT-N										Liquid		Micro-debonding		
0 deg 100			0	gAPI 150		0 dB 75		2.7 in 3.7		0.1 in 0.6		-1 Mrayl 9		1		0		
10																		
20																		
30																		
40																		
50																		
60																		
70																		
80																		
90																		
100																		
110																		
120																		
130																		
140																		
150																		
160																		
170																		
180																		

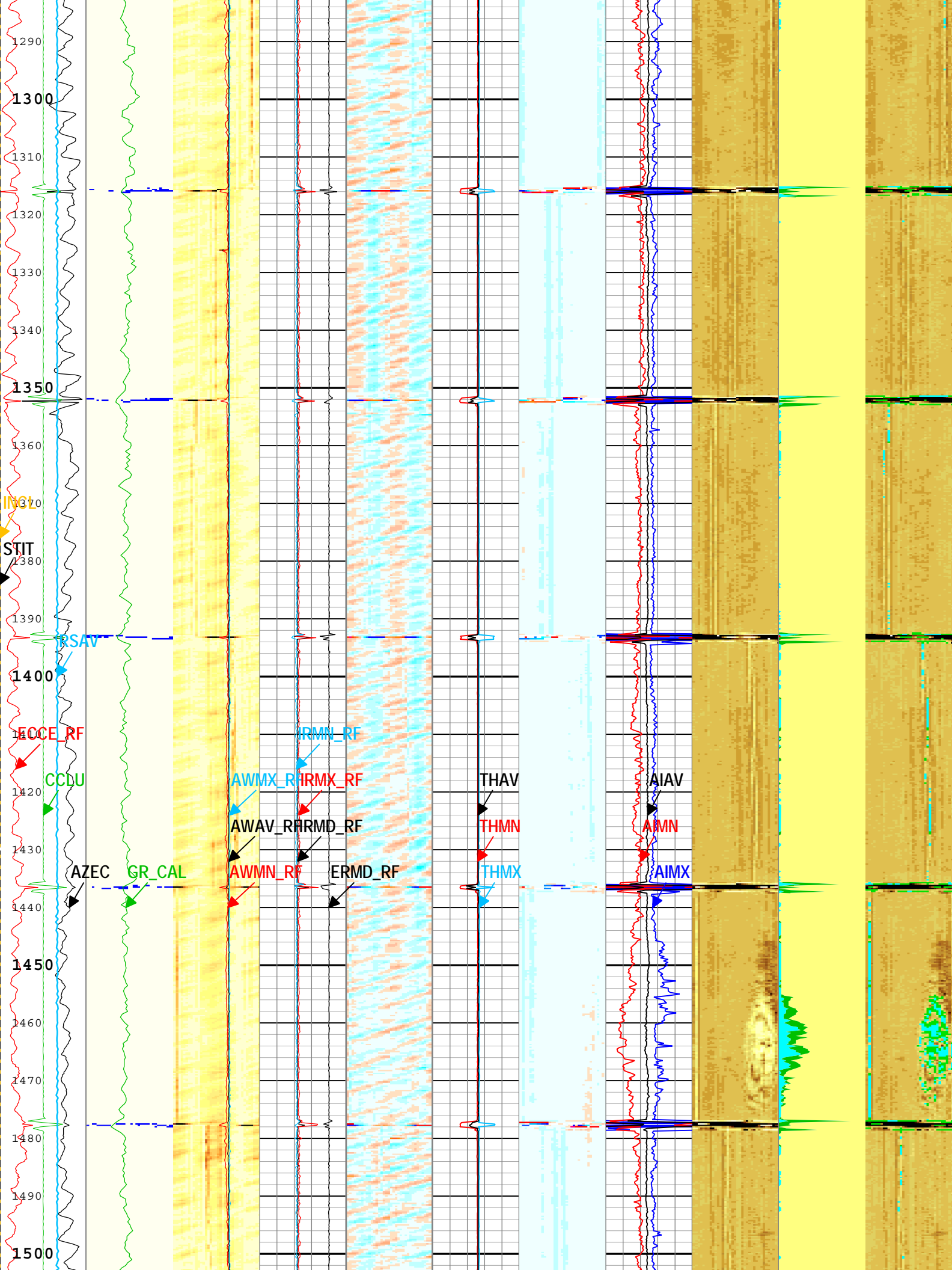


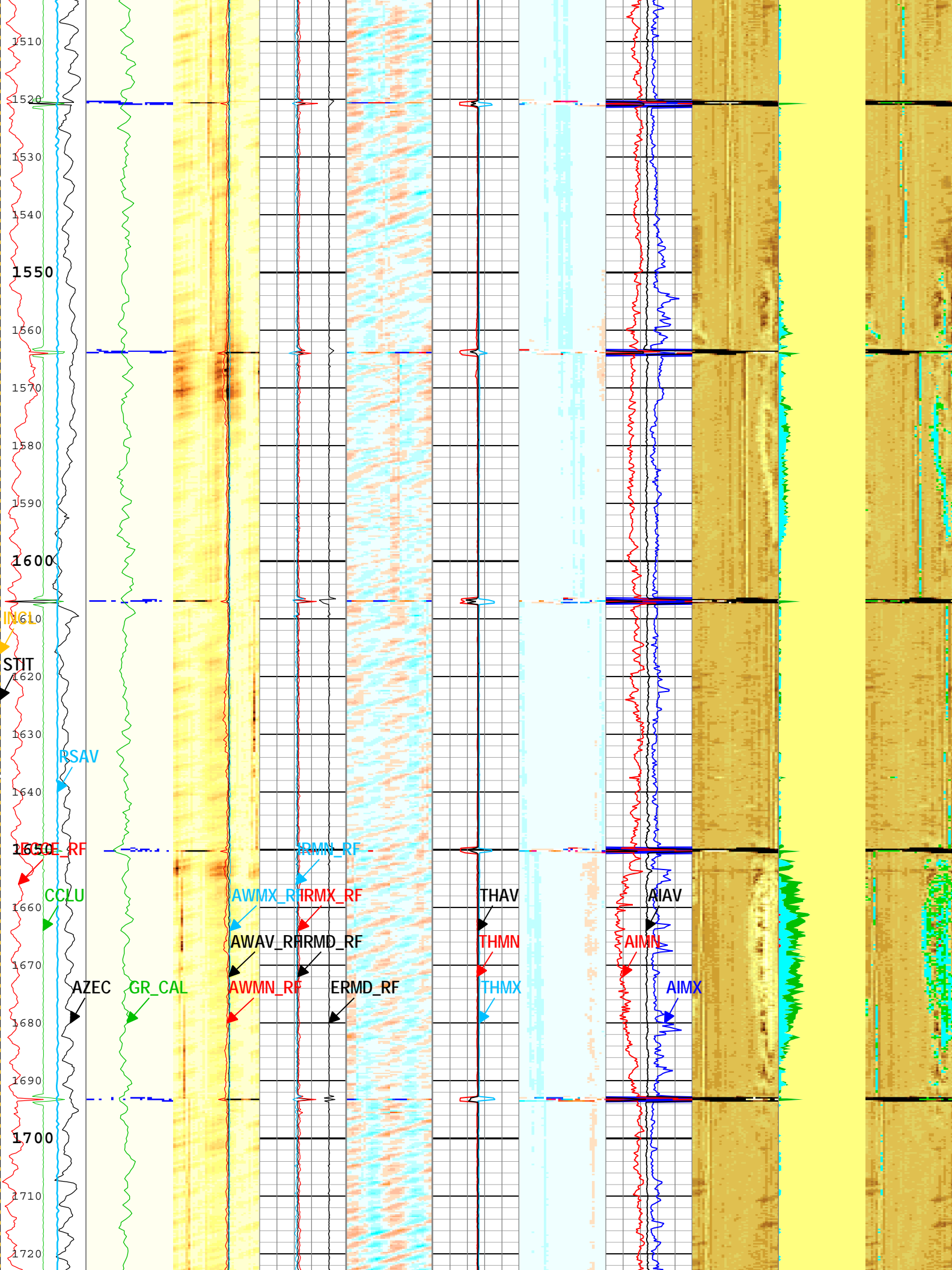


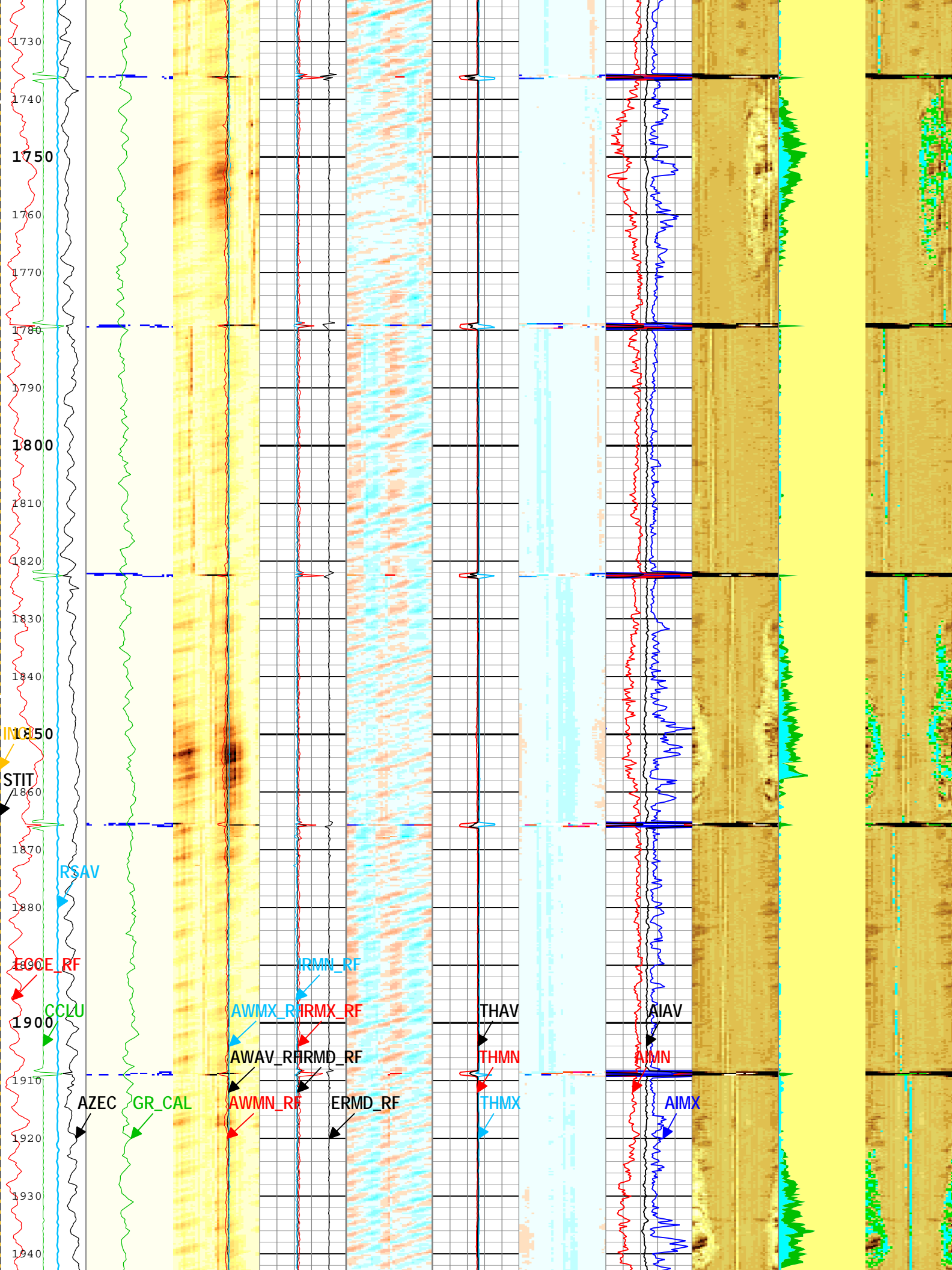


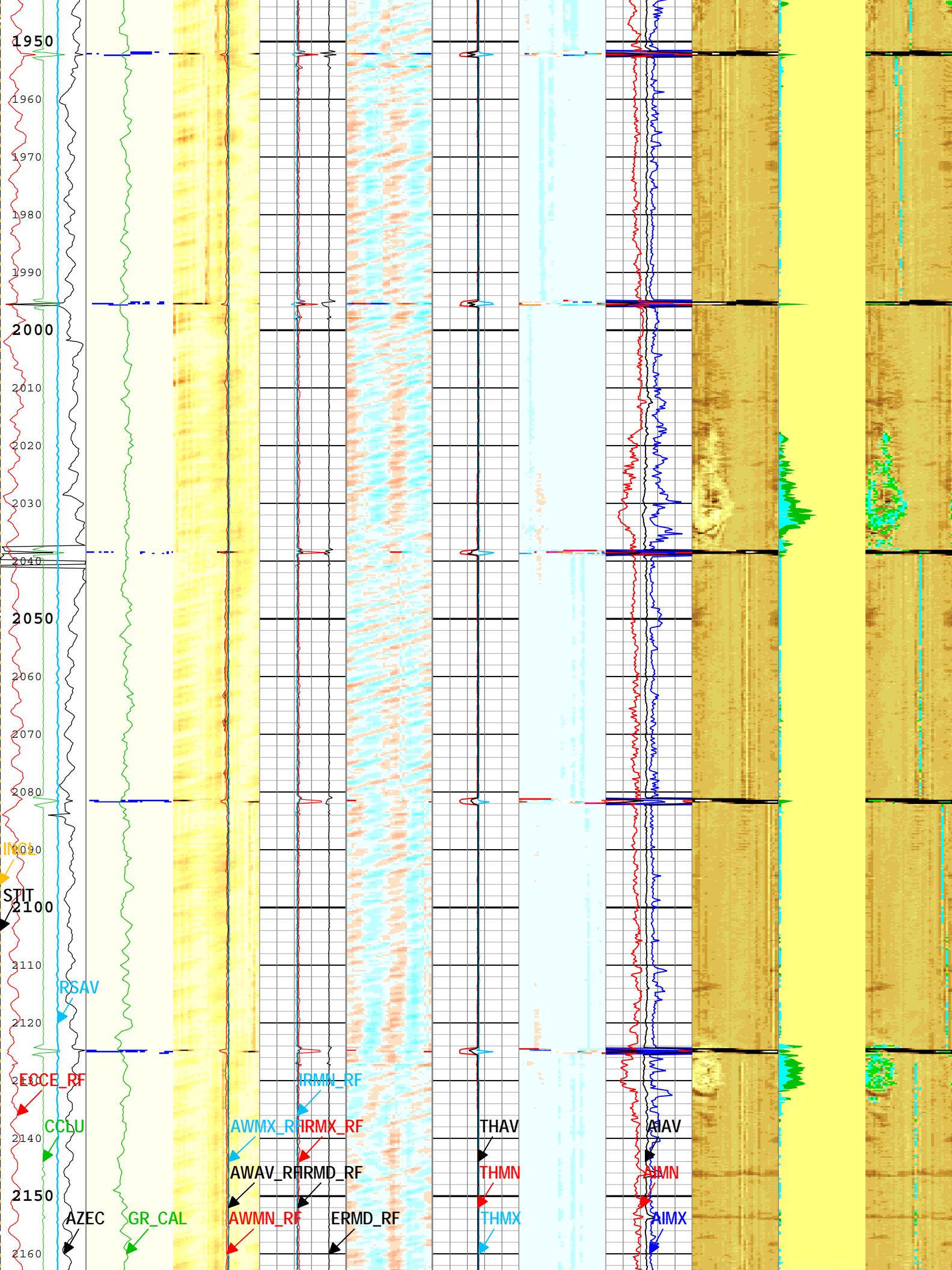


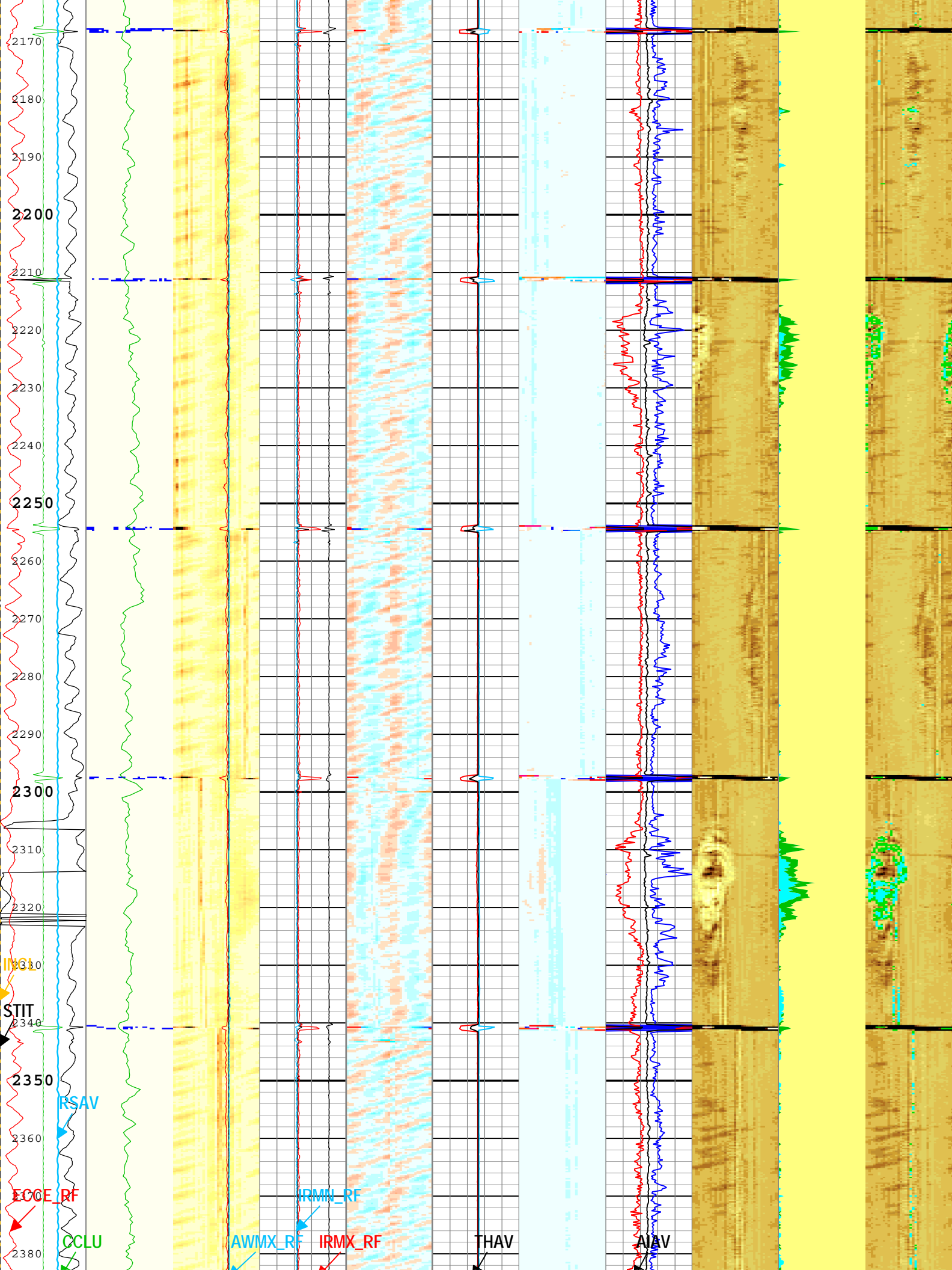


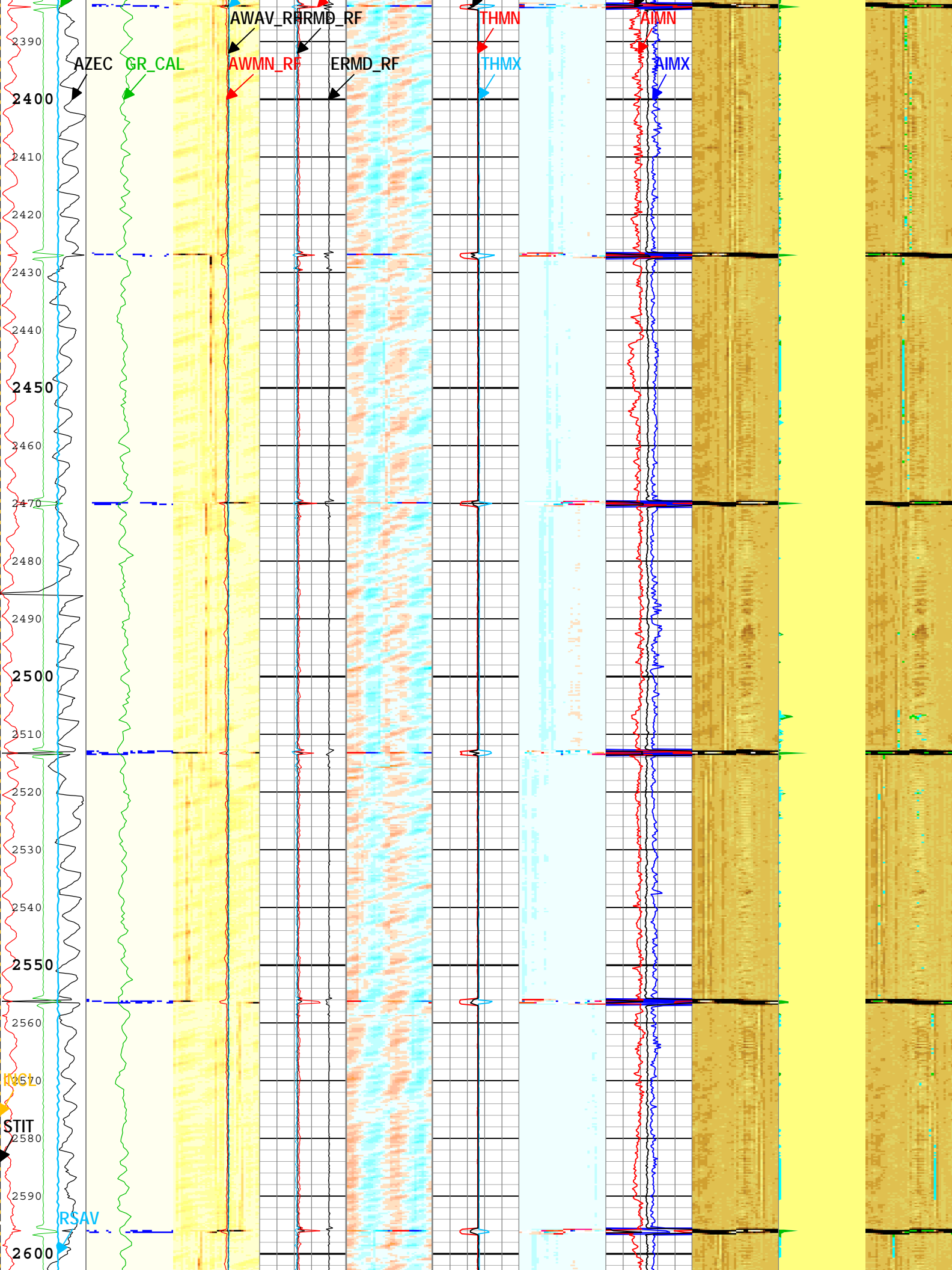


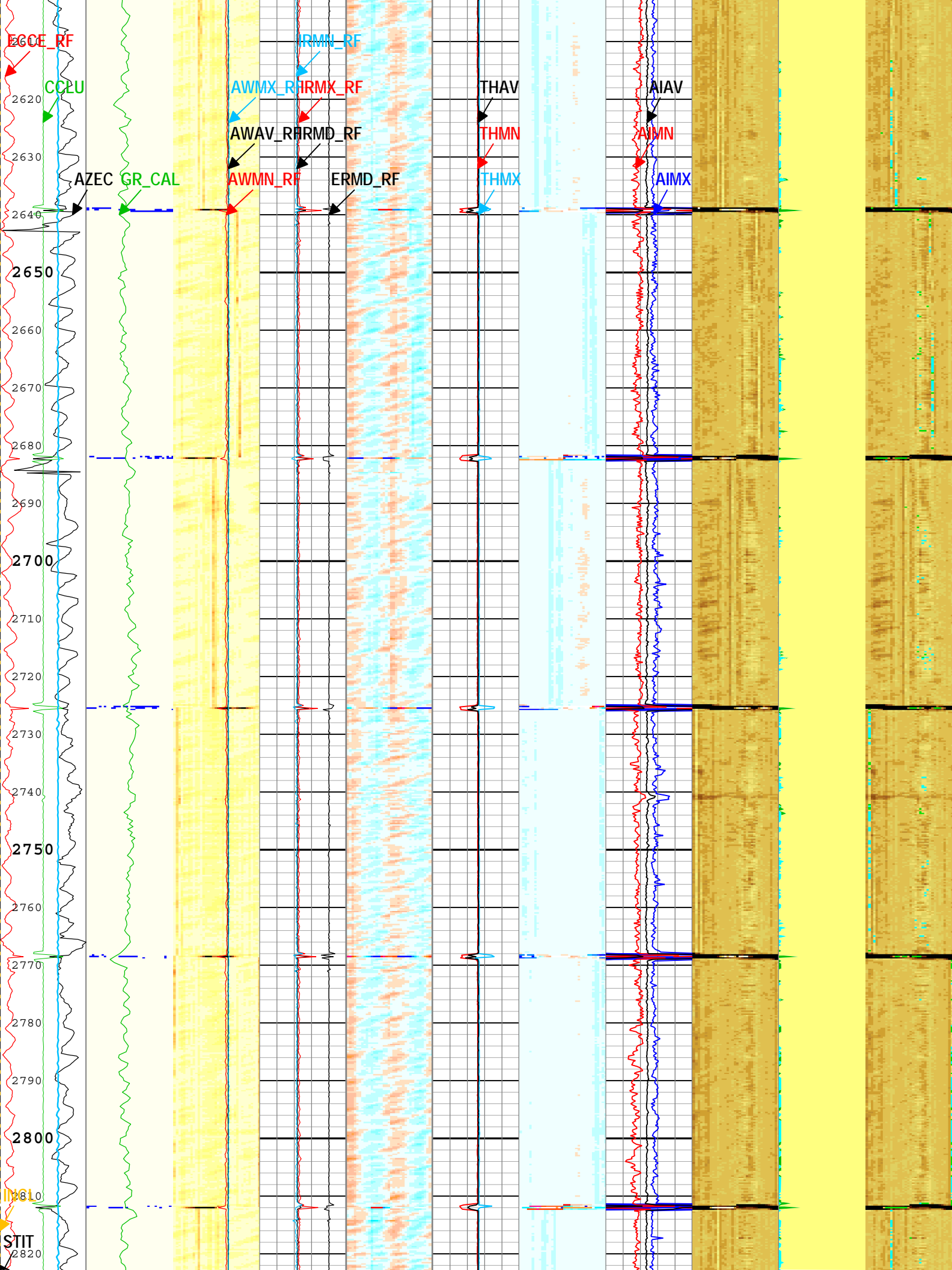


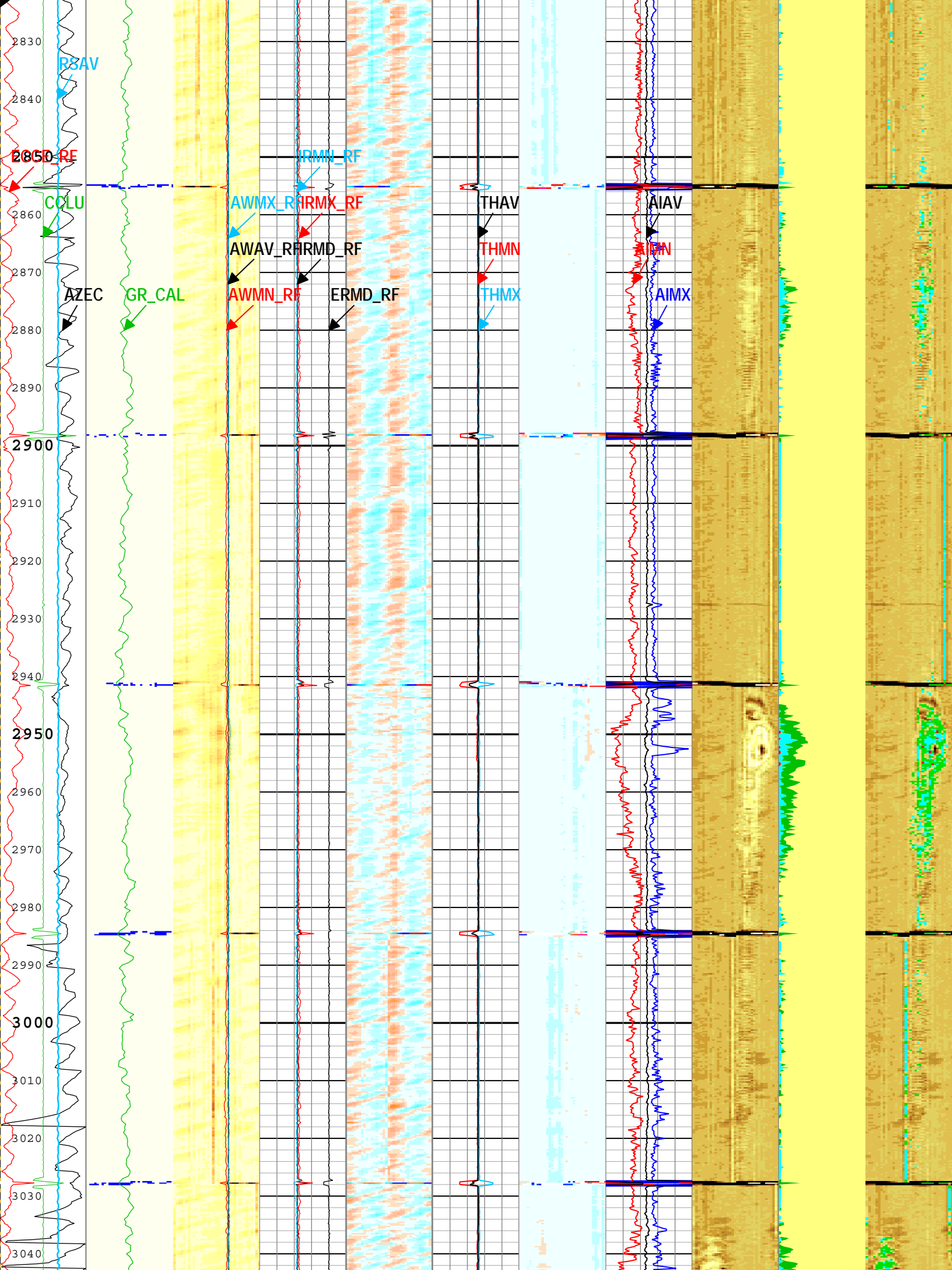


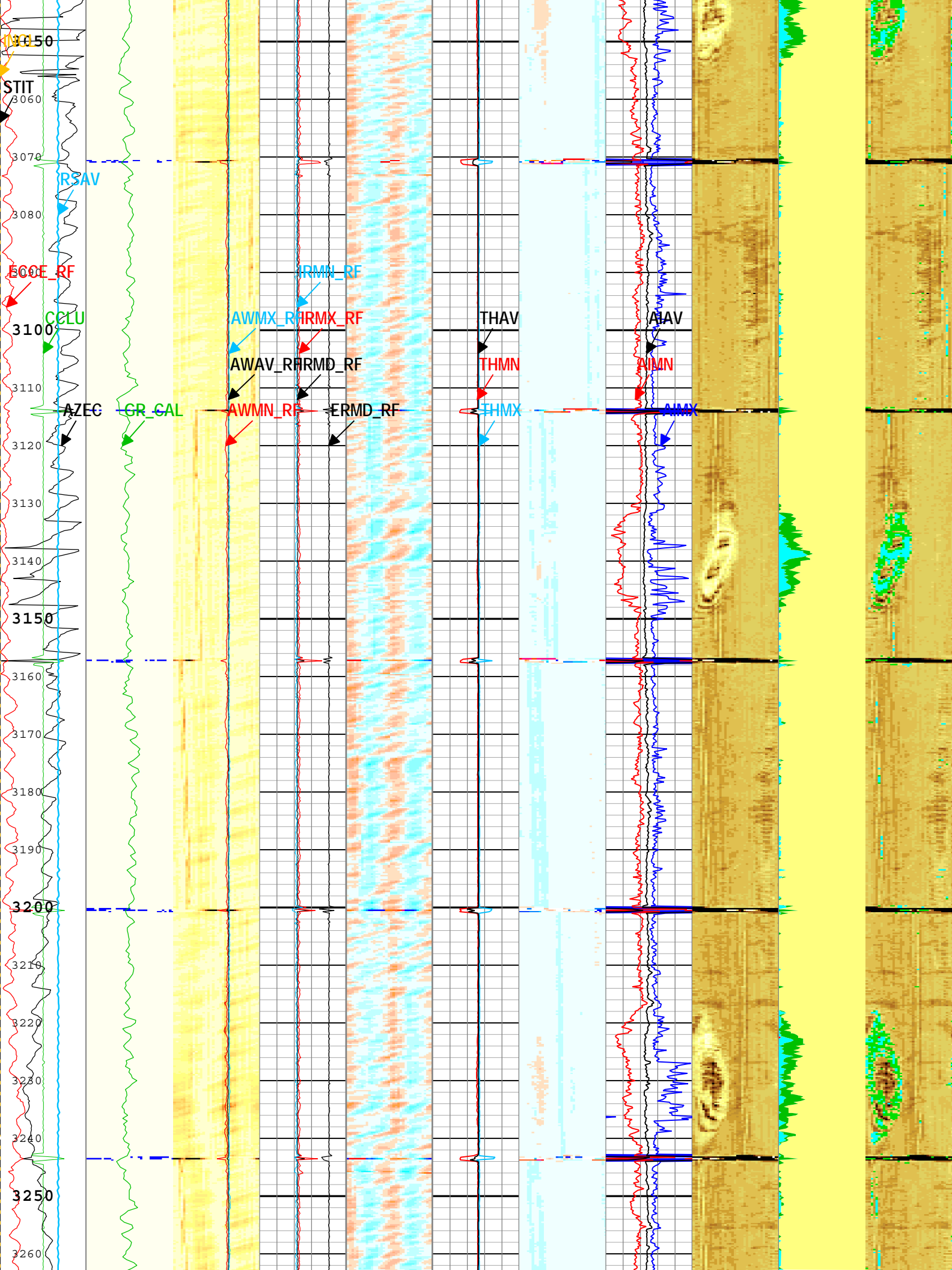


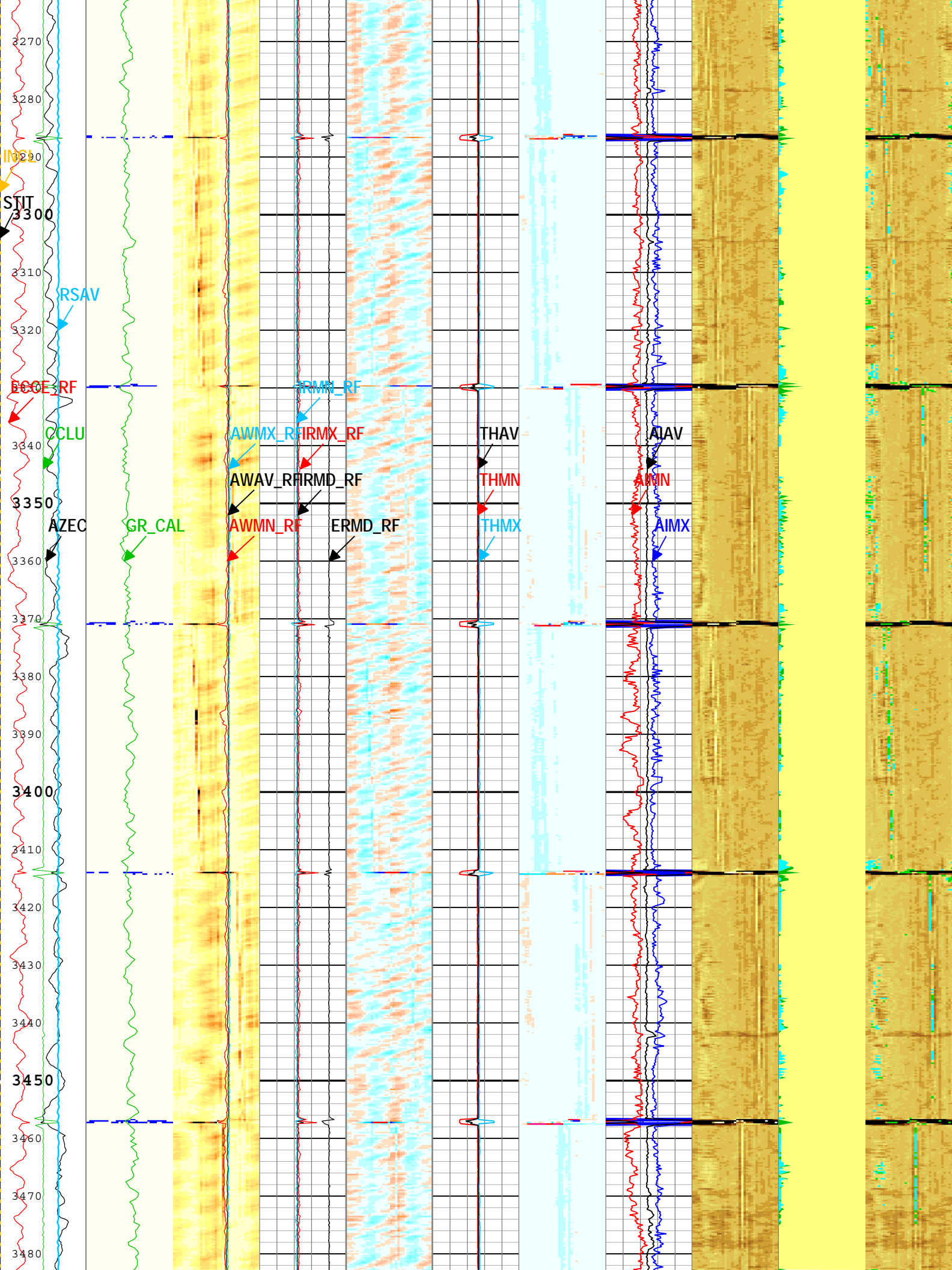


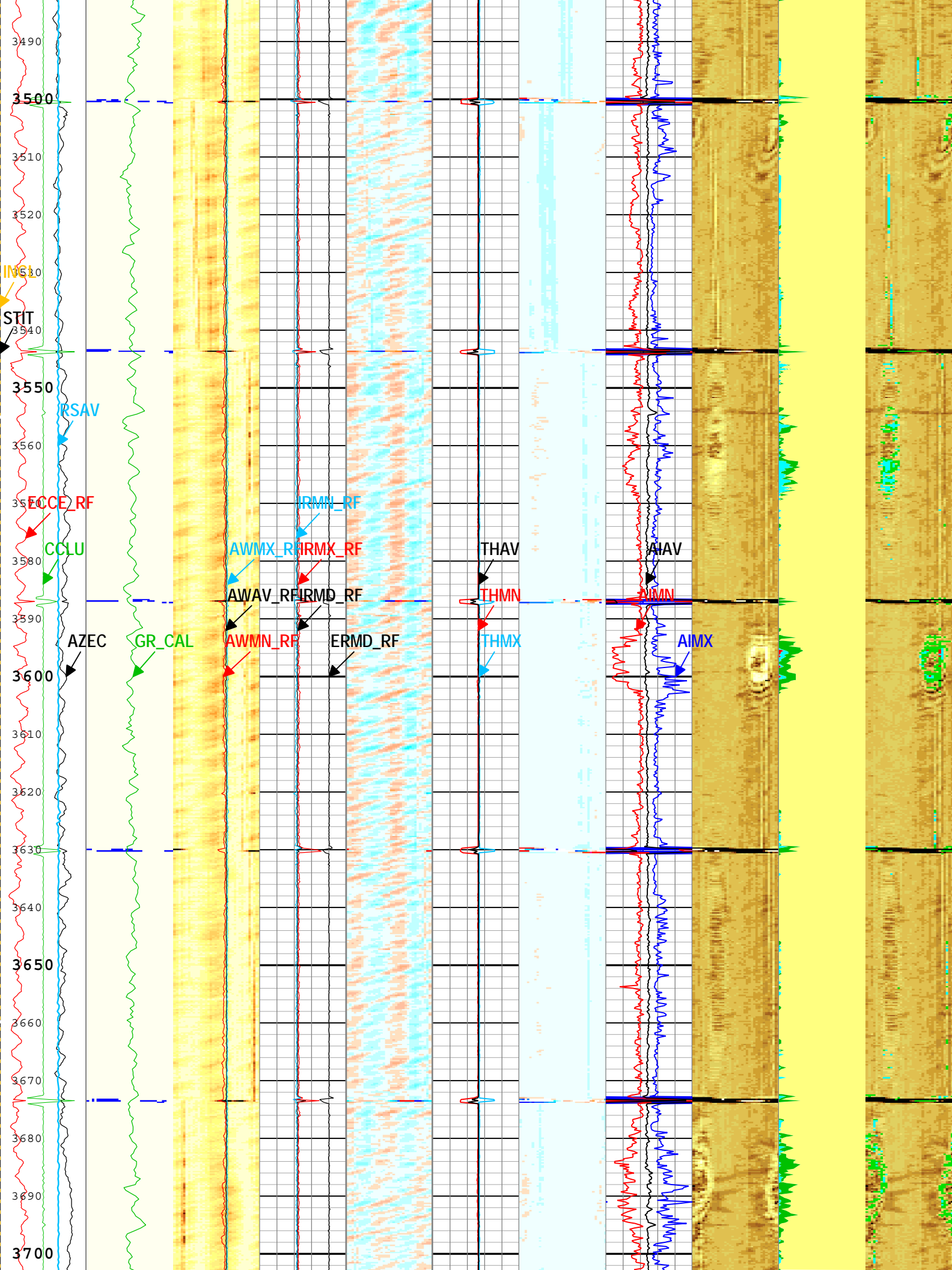


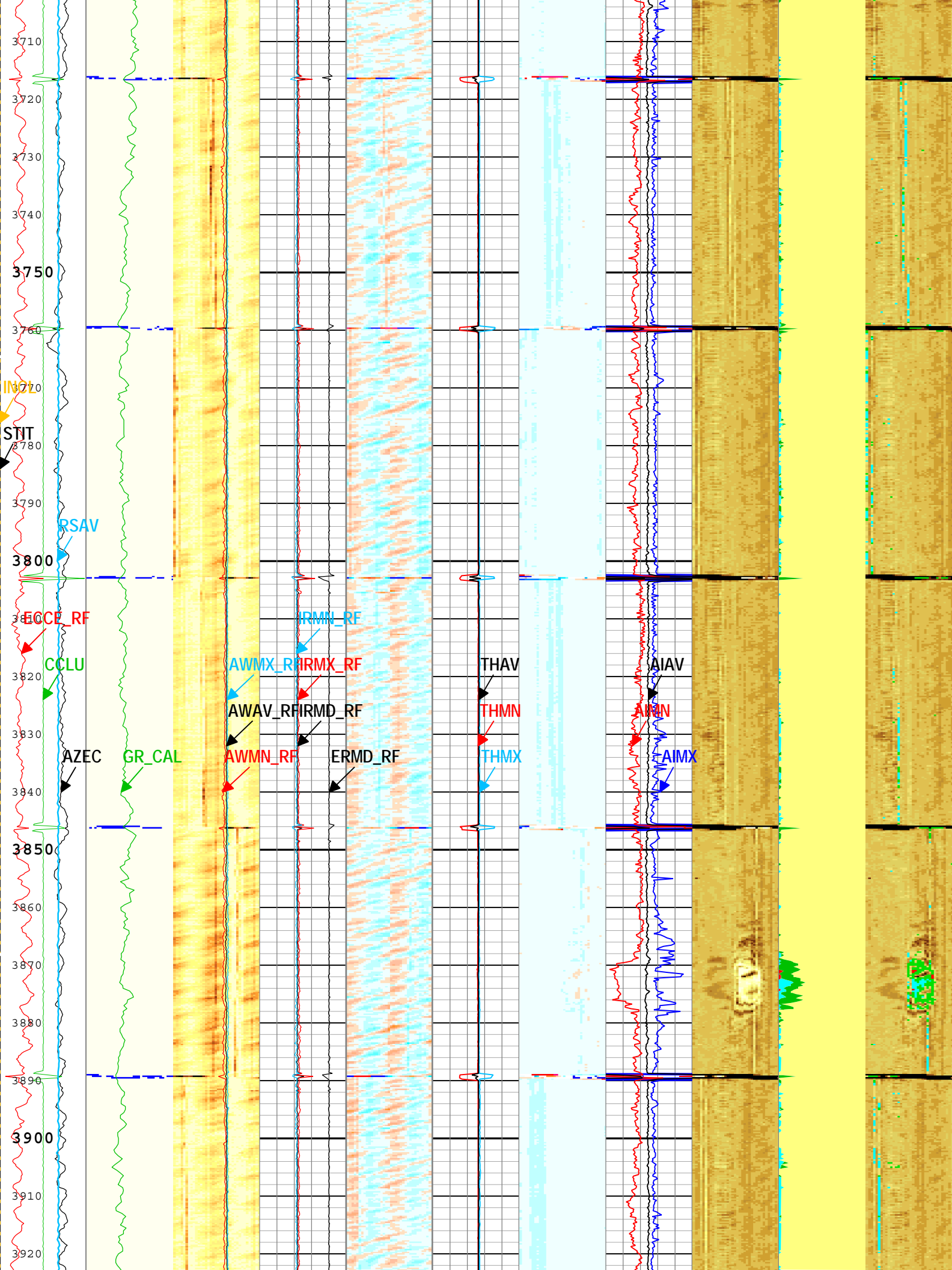


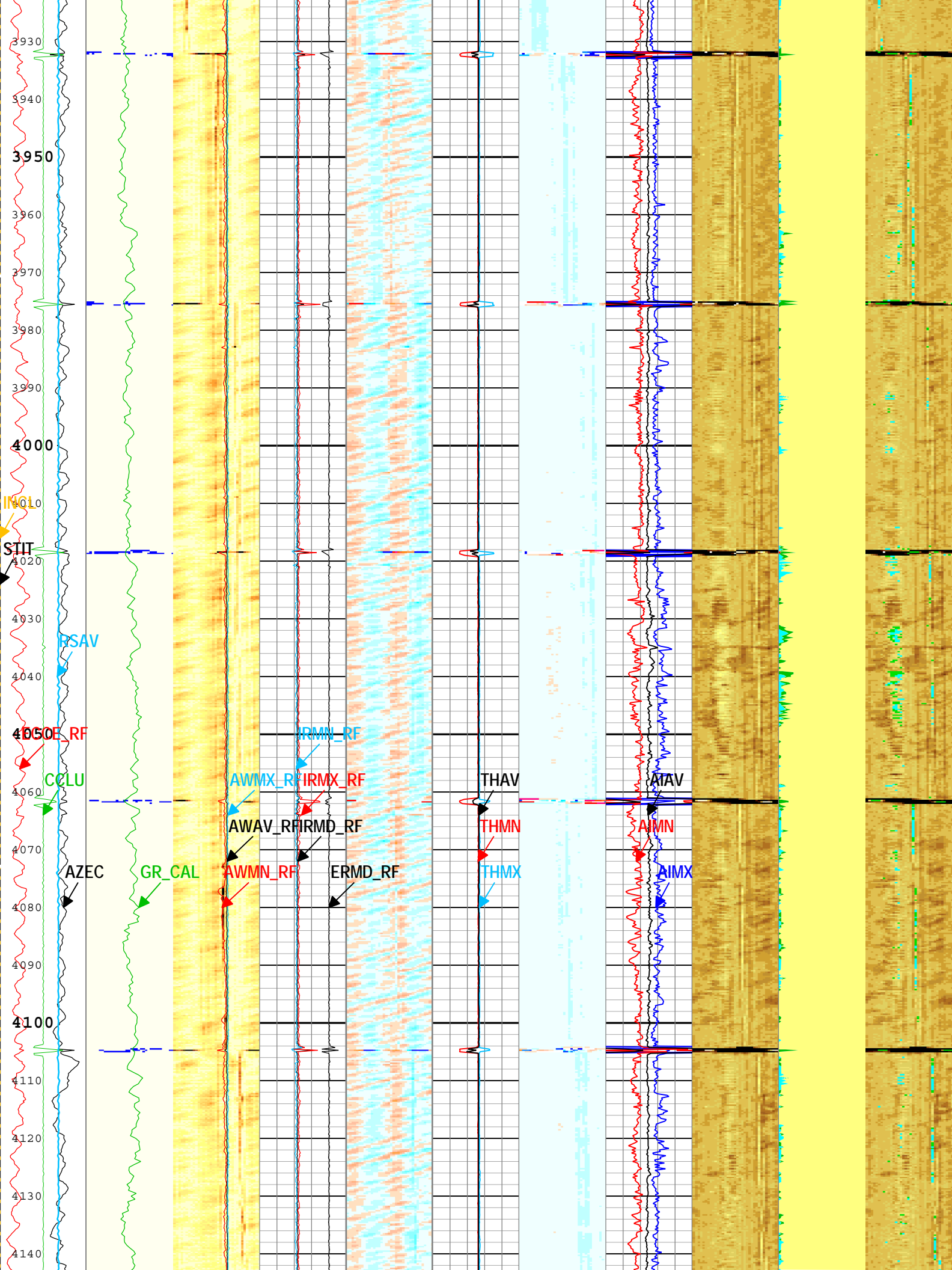


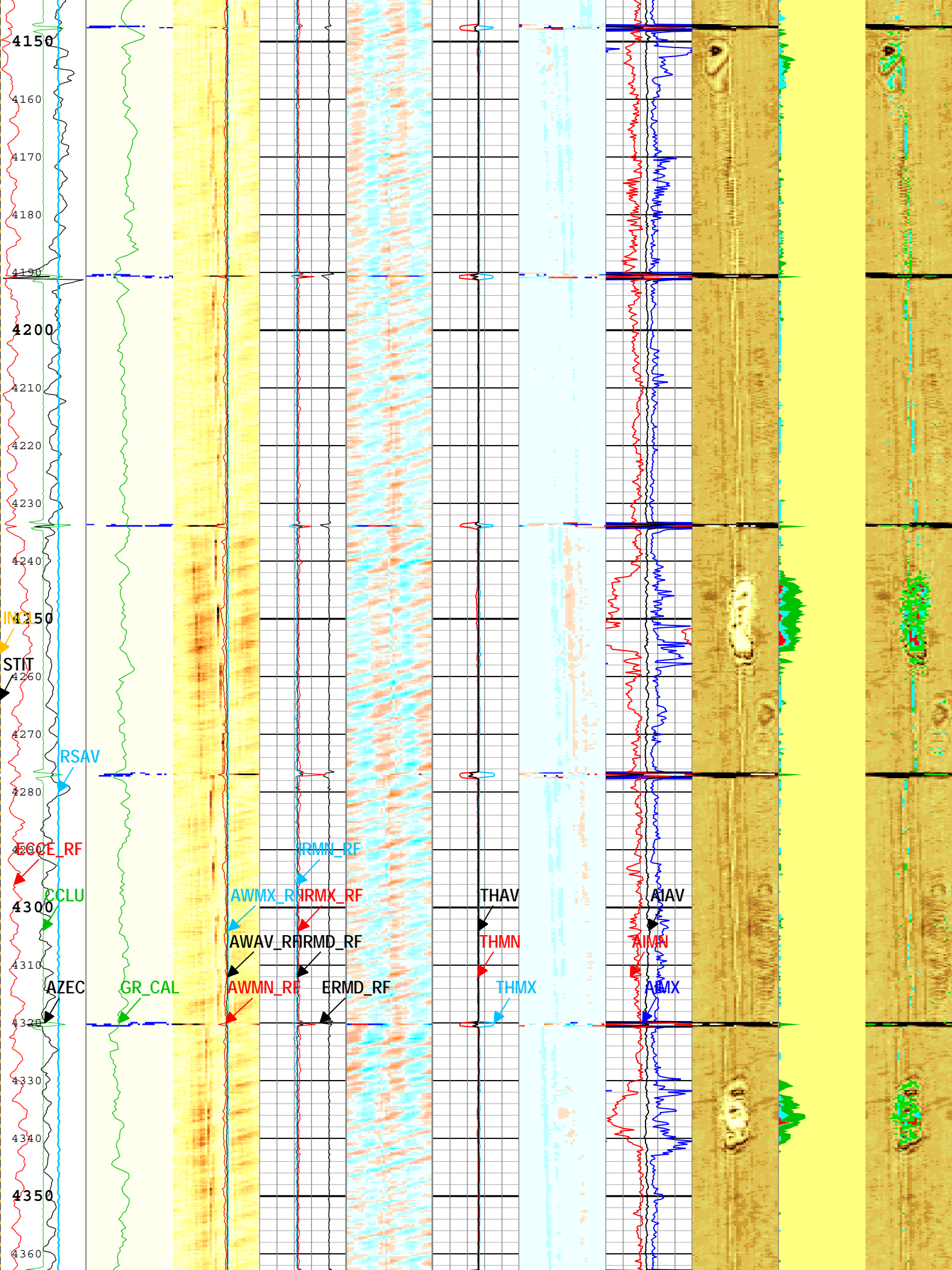


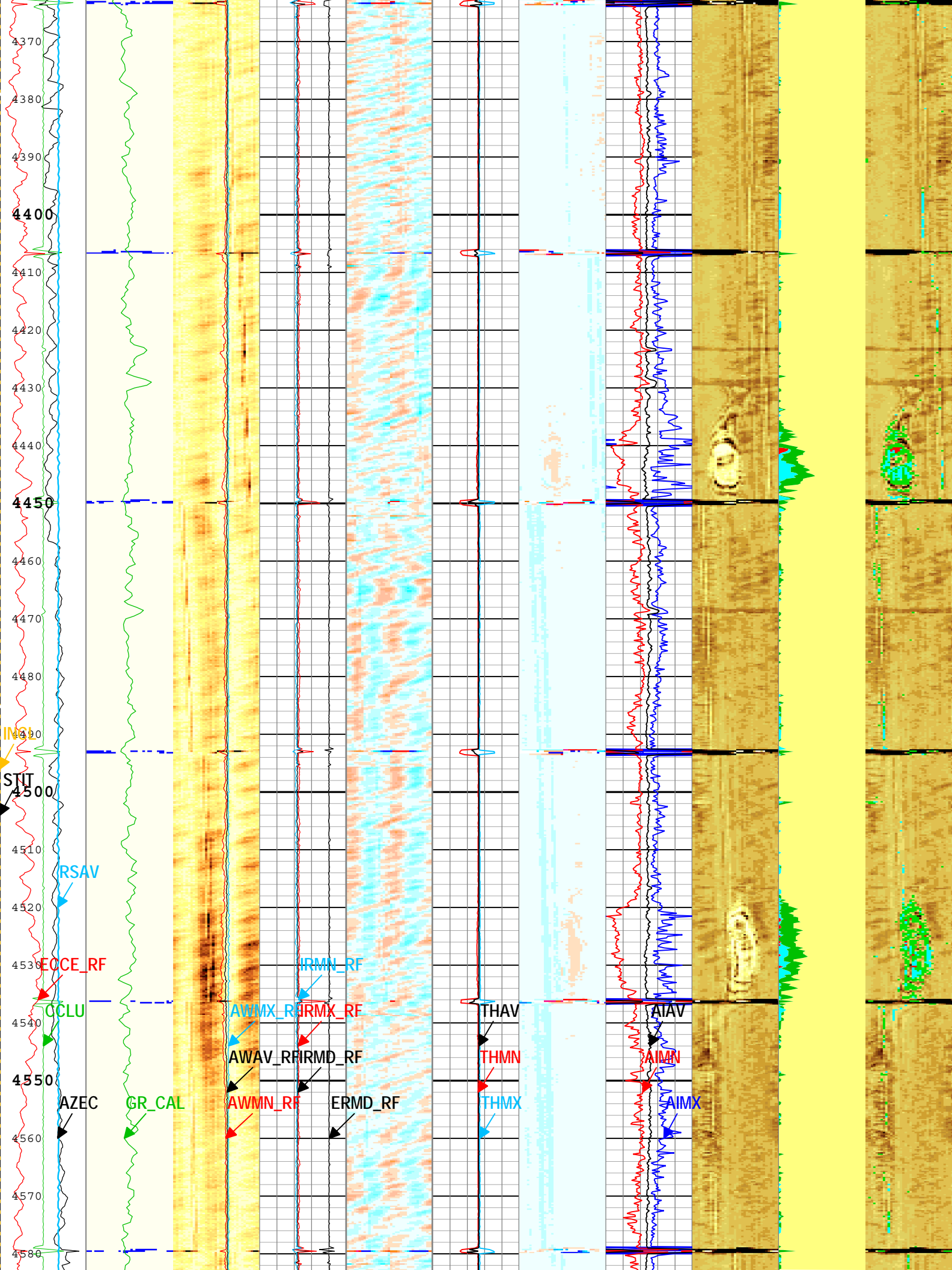


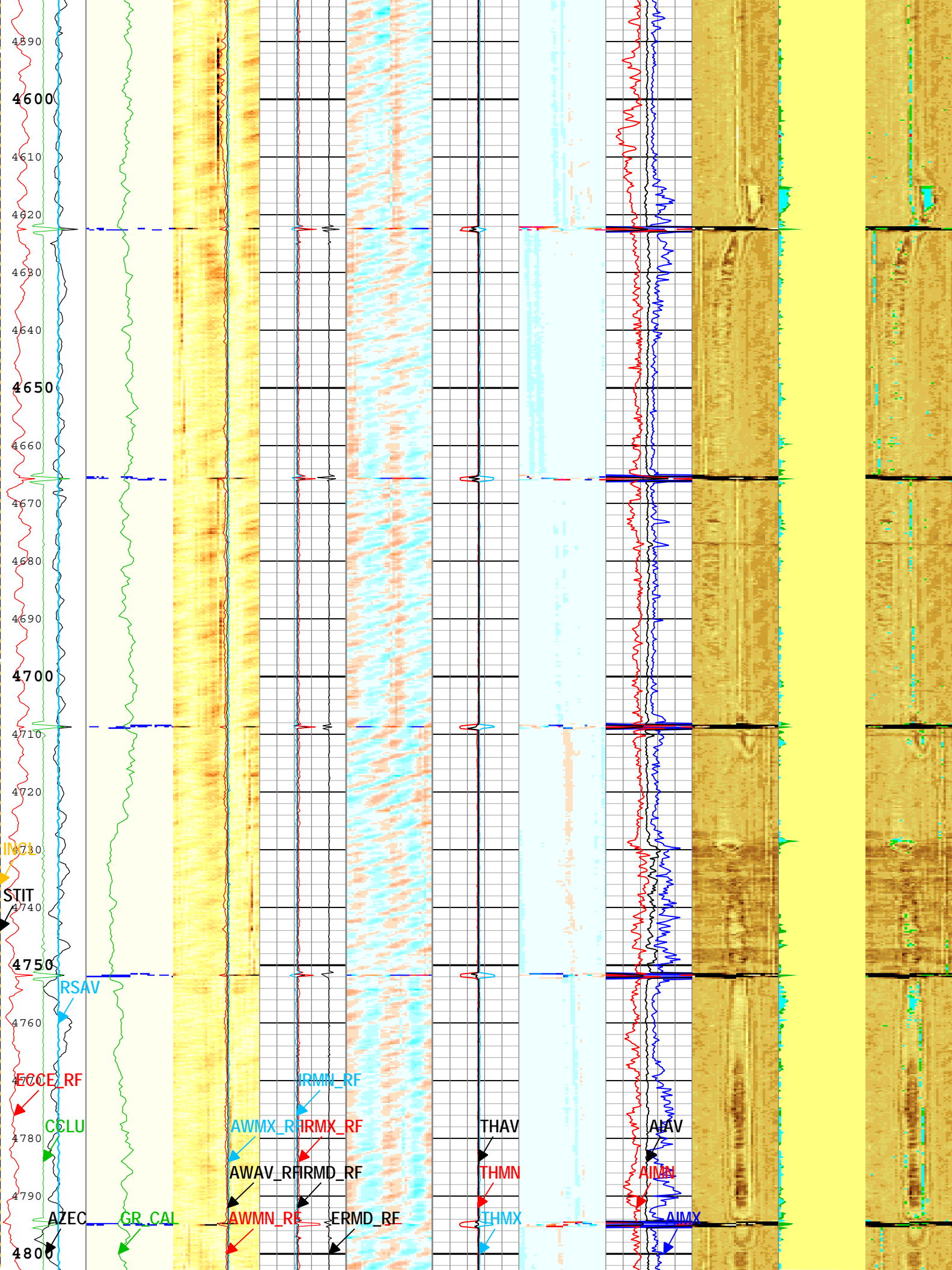


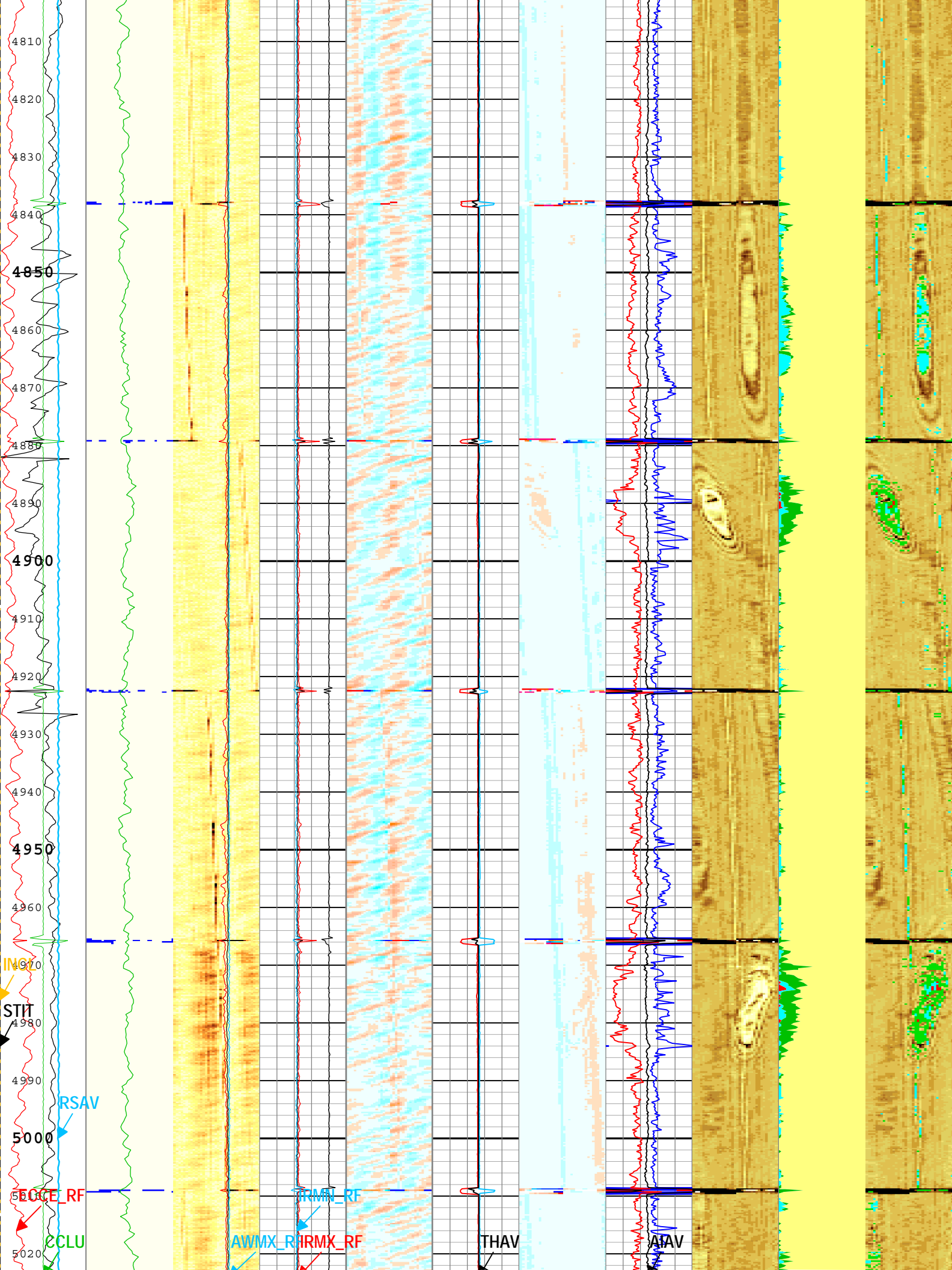


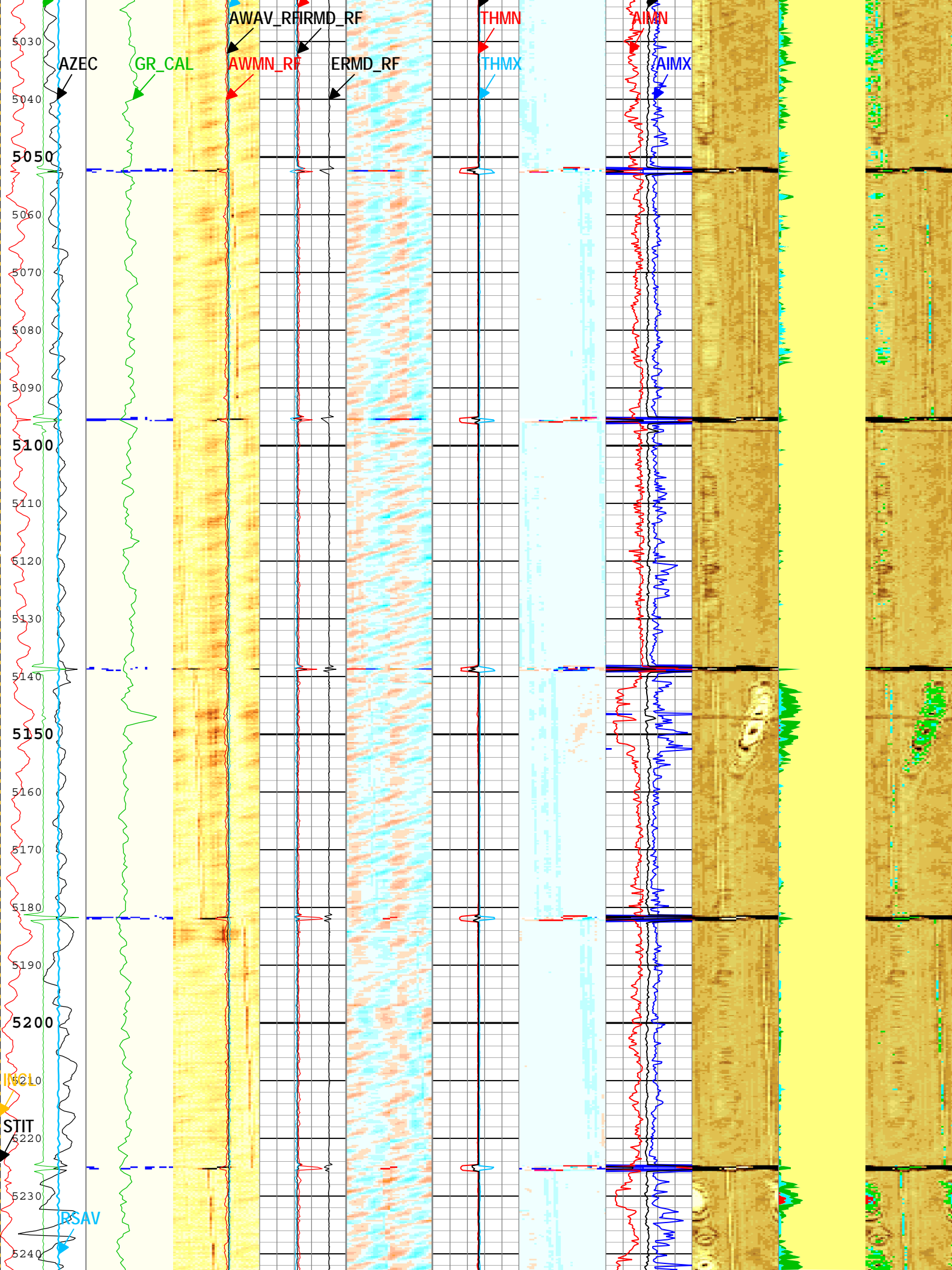


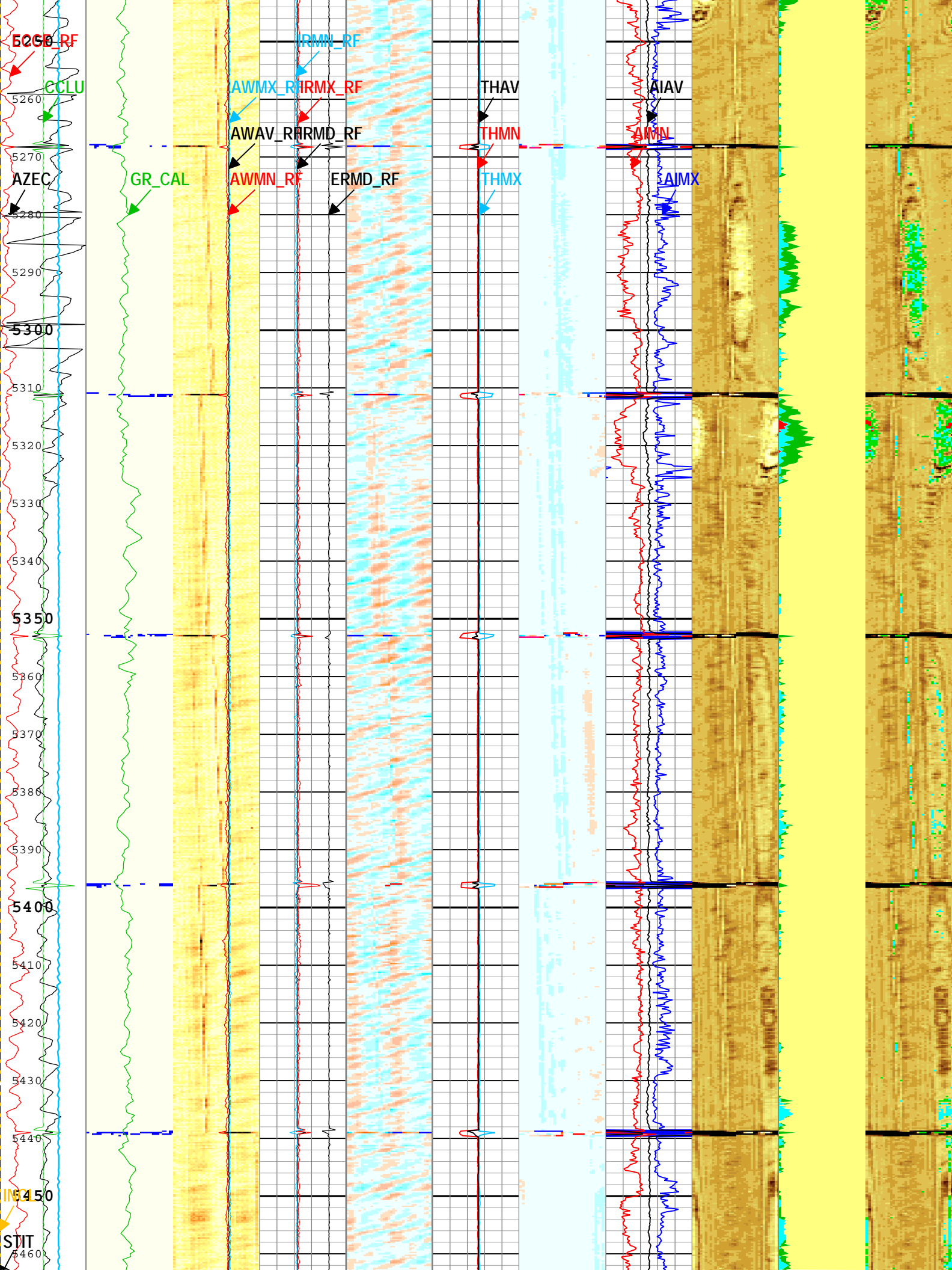


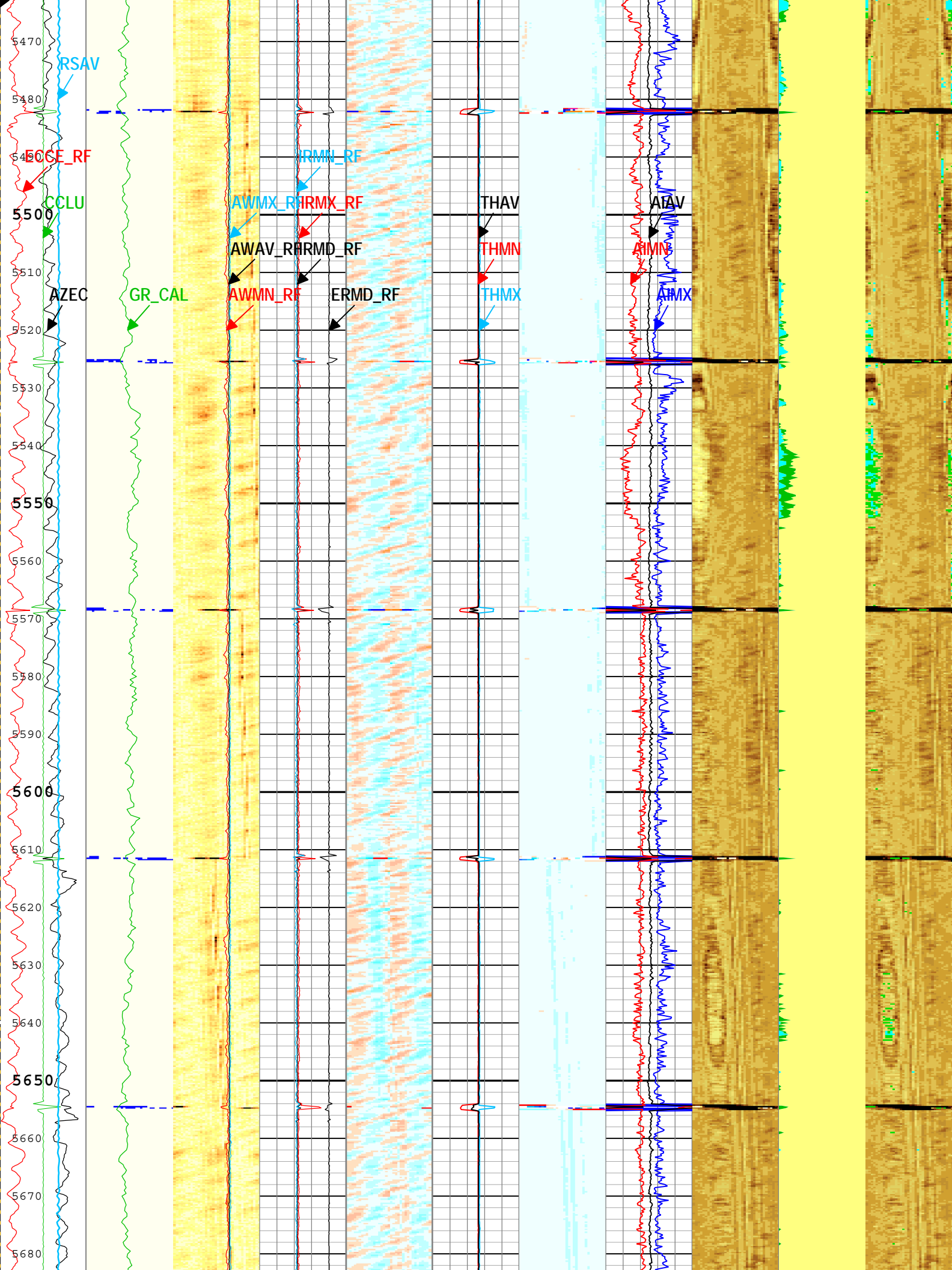


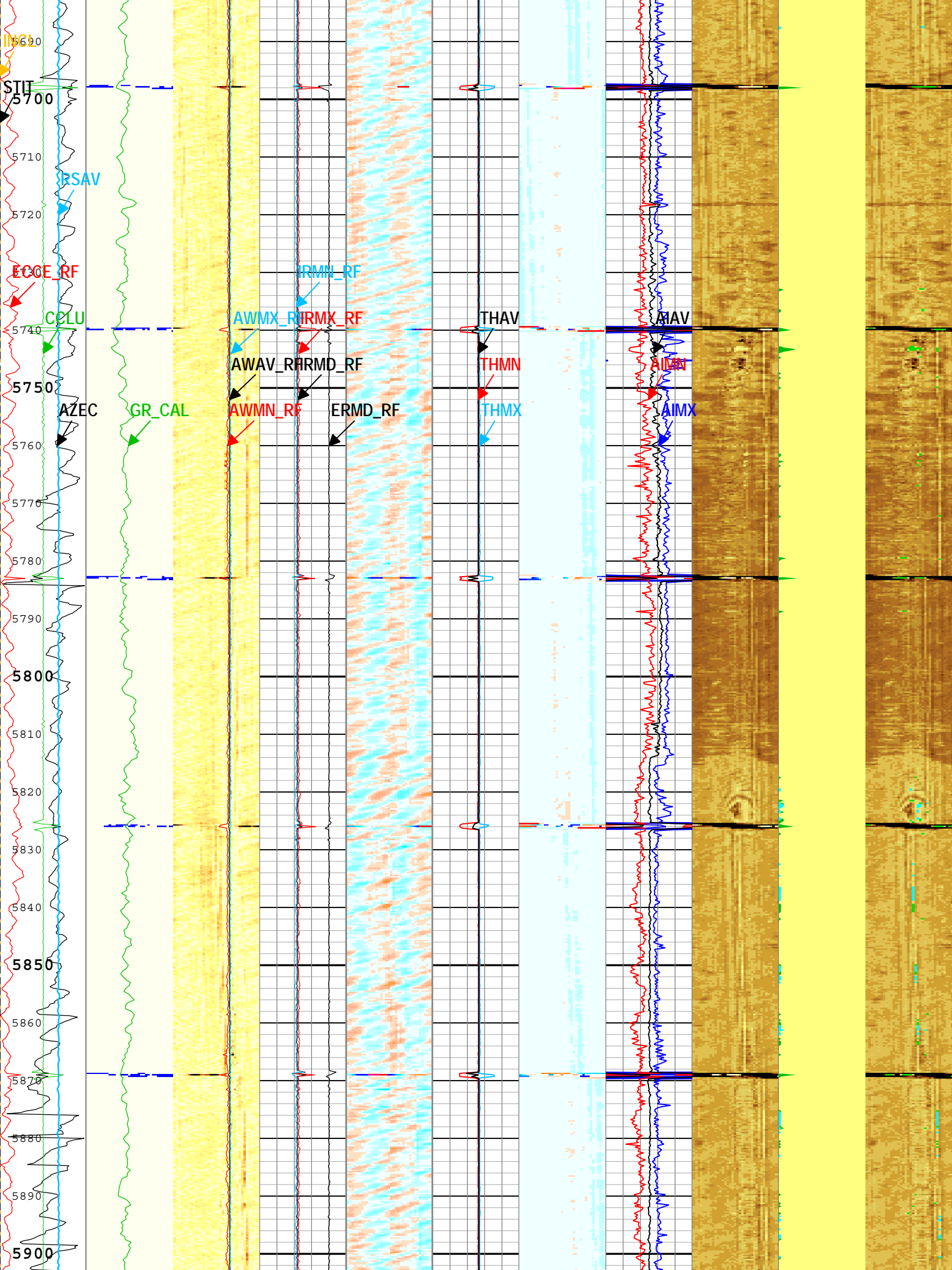


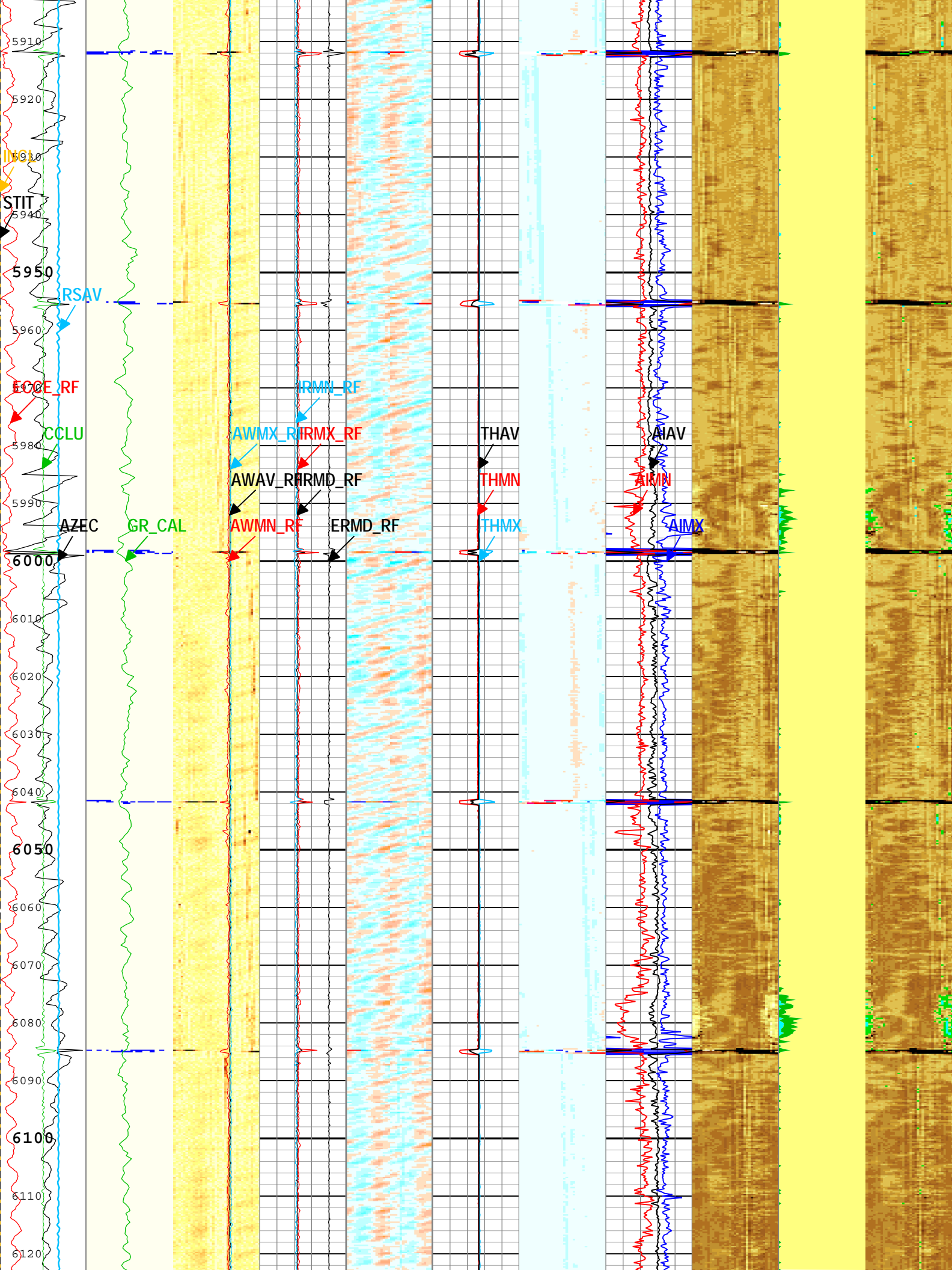


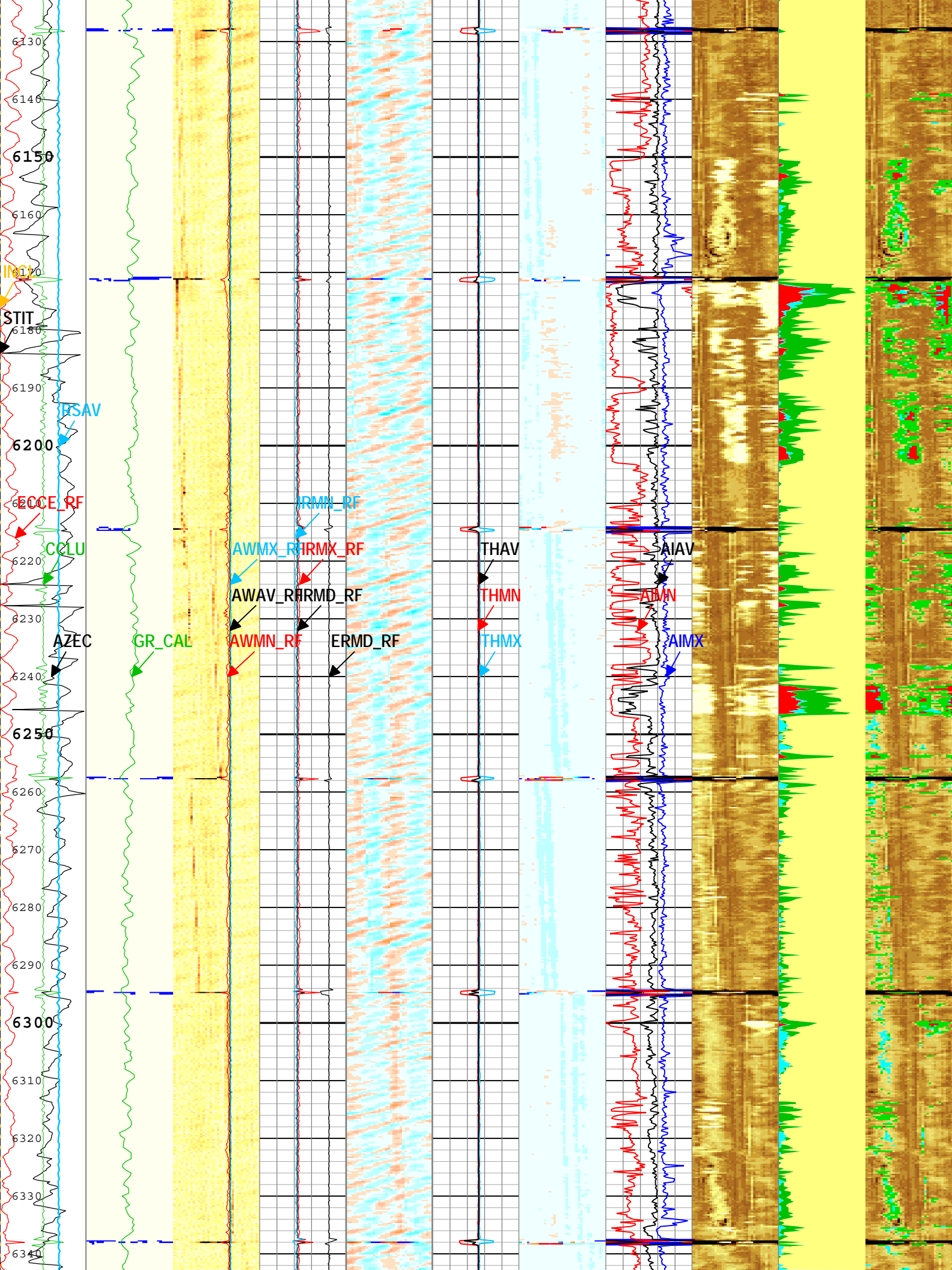


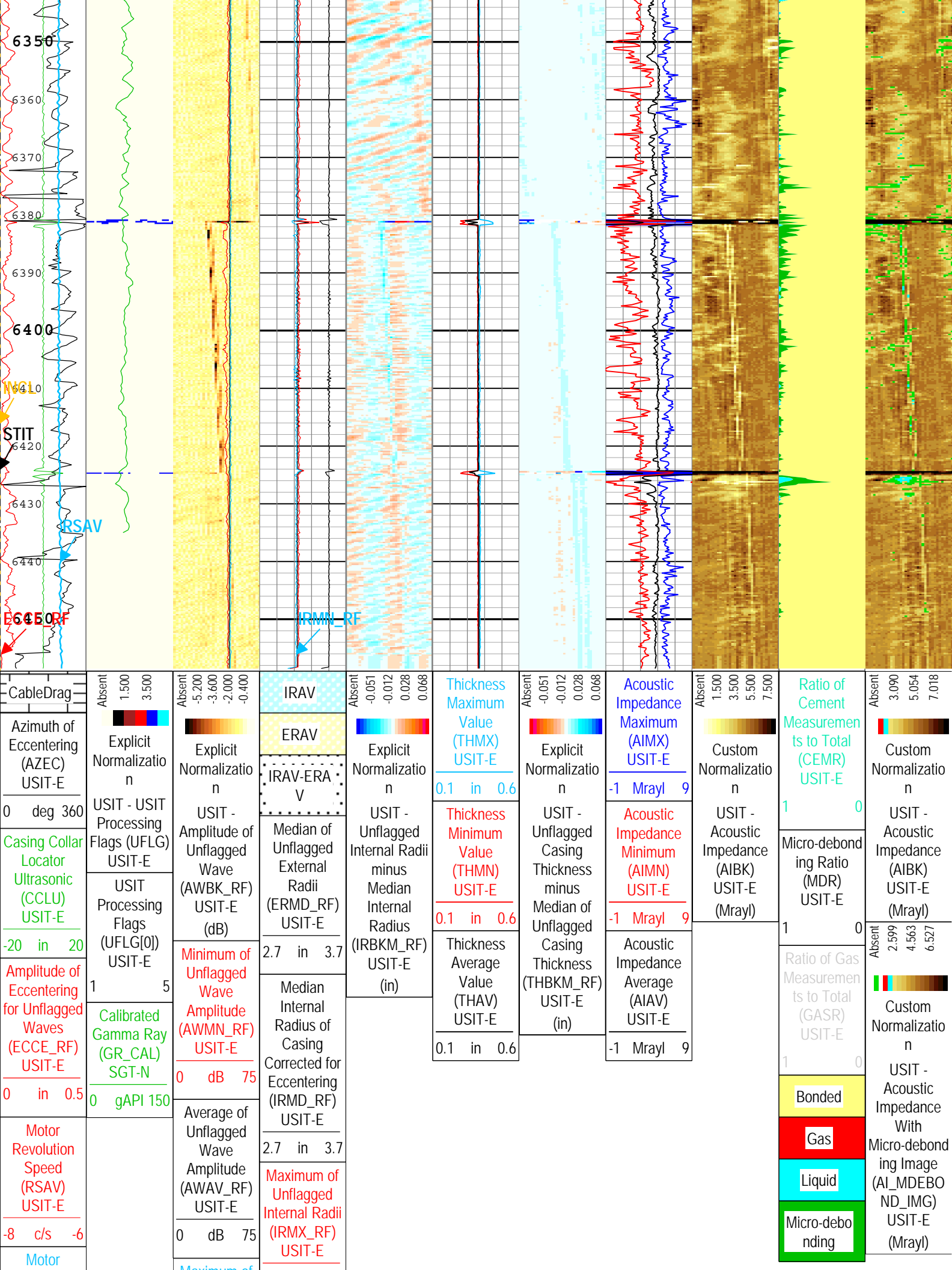

















Revolution Speed (RSAV) USIT-E <hr/> 6 c/s 8	Maximum of Unflagged Wave Amplitude (AWMX_RF) USIT-E <hr/> 0 dB 75	2.7 in 3.7 <hr/> Minimum of Unflagged Internal Radii (IRMN_RF) USIT-E <hr/> 2.7 in 3.7
Stuck Tool Indicator, Total (STIT) <hr/> 0 ft 50		
Hole inclination (INCL) <hr/> 0 deg 100		

TIME_1900 - Time Marked every 60.00 (s)

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

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

Description: USI Composite	Format: USI Composite	Index Scale: 5 in per 100 ft	Index Unit: ft	Index Type: Measured Depth	Creation Date: 14-Aug-2014 10:06:47
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Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
AFVU	Automatic Fluid Velocity Update	USIT-E	On	
BARI	Barite Mud Presence Flag	Borehole	No	
BERJ	Bad Echo Rejection	USIT-E	On	
CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson ratio	
CMTY	Cement Type	USIT-E	Regular Cement	
CTHILGR	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.352	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
ETIP	Elevation of the TIP above MSL	WLSESSION	4973	ft
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GR_MULTIPLIER	Gamma Ray Multiplier	SGT-N	1	
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	Depth Zoned	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	0	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1	
OPLEV	USIT Remove Flagged Data Level	USIT-E	OPT2	
RAPID_OPTION	Rapid Access Computation Option	USIT-E	Off	
RCOD	Reference Calibrator Outer Diameter	USIT-E	7	in
RCSO	Reference Calibrator Standoff	USIT-E	1.181	in
RCTH	Reference Calibrator Thickness	USIT-E	0.295	in
SDNV	Number of Vertical Samples used for Micro-debonding Computation	USIT-E	5	
SDTHOR	Acoustic Impedance STD Horizontal Threshold for Micro-debonding	USIT-E	0.5	Mrayl

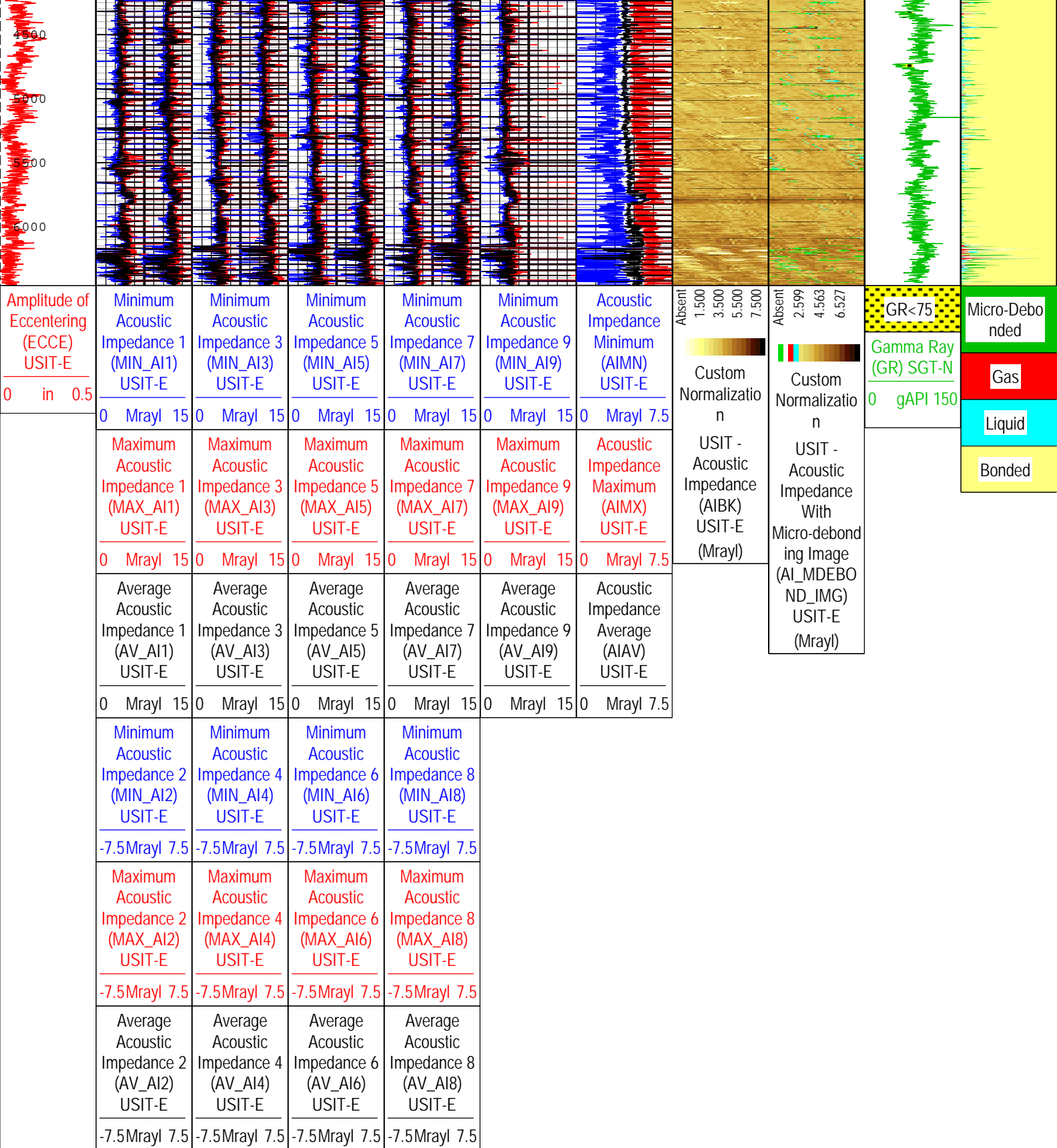
SDTVER	Acoustic Impedance STD Vertical Threshold for Micro-debonding	USIT-E	0.3	Mrayl
TCUB	T^3 Processing Level	USIT-E	Loop	
TD	Total Measured Depth	Borehole	6460	ft
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
UDFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0	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	Manual	
UTHDP	Thickness Detection Policy	USIT-E	Fundamental	
VCAS	Ultrasonic Transversal Velocity in Casing	USIT-E	51.4	us/ft
ZCAS	Acoustic Impedance of Casing	USIT-E	46.25	Mrayl
ZINI	Initial Estimate of Cement Impedance	USIT-E	-1	Mrayl
ZMUD	Acoustic Impedance of Mud	Borehole	Depth Zoned	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)	
MEAS_WLEN	22.5	3	6459	
ZMUD	1.7	3	250	
ZMUD	1.72	250	500	
ZMUD	1.74	500	1200	
ZMUD	1.76	1200	1600	
ZMUD	1.78	1600	2200	
ZMUD	1.8	2200	2900	
ZMUD	1.81	2900	3500	
ZMUD	1.82	3500	6459	
All depth are actual.				

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	18	dB
DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOTF	Distance between Opposite Transducer Faces	USIT-E	2.874	in
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
HRES	Horizontal Resolution	USIT-E	10 deg	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
USFR	Ultrasonic Sampling Frequency	USIT-E	500000	Hz
USI_UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
USI_UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 3.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	6460	ft
VRES	Vertical Resolution	USIT-E	3.0 in	
WINB	Window Begin Time	USIT-E	38.4	us
WINE	Window End Time	USIT-E	78.4	us

Time Zone Parameters							
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)		
EMXV	85	13-Aug-2014 15:49:49	13-Aug-2014 15:55:35	6459.07	5998.78		
EMXV	83	13-Aug-2014 15:55:35	13-Aug-2014 15:55:43	5998.78	5985.33		
EMXV	81	13-Aug-2014 15:55:43	13-Aug-2014 15:55:50	5985.33	5972.89		
EMXV	79	13-Aug-2014 15:55:50	13-Aug-2014 15:55:57	5972.89	5961.64		
EMXV	75	13-Aug-2014 15:55:57	13-Aug-2014 16:19:37	5961.64	3489.32		
EMXV	80	13-Aug-2014 16:19:37	13-Aug-2014 16:19:42	3489.32	3480.12		
EMXV	85	13-Aug-2014 16:19:42	13-Aug-2014 16:19:47	3480.12	3472.23		
EMXV	87	13-Aug-2014 16:19:47	13-Aug-2014 16:19:52	3472.23	3464.07		
EMXV	91	13-Aug-2014 16:19:52	13-Aug-2014 16:19:55	3464.07	3458.03		
EMXV	95	13-Aug-2014 16:19:55	13-Aug-2014 16:27:03	3458.03	2696.97		
EMXV	98	13-Aug-2014 16:27:03	13-Aug-2014 16:29:40	2696.97	2413.11		
EMXV	100	13-Aug-2014 16:29:40	13-Aug-2014 16:29:46	2413.11	2401.74		
EMXV	103	13-Aug-2014 16:29:46	13-Aug-2014 16:29:49	2401.74	2396.3		
EMXV	105	13-Aug-2014 16:29:49	13-Aug-2014 16:32:59	2396.3	2050.85		
EMXV	110	13-Aug-2014 16:32:59	13-Aug-2014 16:36:04	2050.85	1732.28		
EMXV	115	13-Aug-2014 16:36:04	13-Aug-2014 16:36:17	1732.28	1710.38		
EMXV	118	13-Aug-2014 16:36:17	13-Aug-2014 16:36:23	1710.38	1700.56		
EMXV	120	13-Aug-2014 16:36:23	13-Aug-2014 16:36:28	1700.56	1691.96		
EMXV	125	13-Aug-2014 16:36:28	13-Aug-2014 16:59:44	1691.96	26.53		
All depth are at tool zero.							
USI Goodwin							
USIT - Fluid Properties Measurement							
Run Name		Pass Name		Start Depth(ft)		Stop Depth(ft)	
Run 1		Log[2]:Up		6459.07		26.53	
Fluid Velocity = "Automatic". CFVL equals DFSL channel							
Start Depth(ft)		Stop Depth(ft)		Start Value(us/ft)		End Value(us/ft)	
Mud Impedance = "Manual". CZMD uses ZMUD parameter zoned table below							
Start Depth(ft)		Stop Depth(ft)		Start Value(Mrayl)		End Value(Mrayl)	
0		250		1.7		1.7	
250		500		1.72		1.72	
500		1200		1.74		1.74	
1200		1600		1.76		1.76	
1600		2200		1.78		1.78	
2200		2900		1.8		1.8	
2900		3500		1.81		1.81	
3500				1.82		1.82	
Run 1							
USI Goodwin Compressed							
Log						Company:Anadarko Petroleum Company Well:Benson Farms 12N-23HZ Run 1 : Log[2]:Up:S003	
Description: USI Goodwin Format: USI Goodwin Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 14-Aug-2014 10:06:57							
TIME_1900 - Time Marked every 60.00 (s)							

Amplitude of Eccentering (ECCE) USIT-E	Minimum Acoustic Impedance 1 (MIN_AI1) USIT-E		Minimum Acoustic Impedance 3 (MIN_AI3) USIT-E		Minimum Acoustic Impedance 5 (MIN_AI5) USIT-E		Minimum Acoustic Impedance 7 (MIN_AI7) USIT-E		Minimum Acoustic Impedance 2 (MIN_AI2) USIT-E	Minimum Acoustic Impedance 4 (MIN_AI4) USIT-E	Minimum Acoustic Impedance 6 (MIN_AI6) USIT-E	Minimum Acoustic Impedance 8 (MIN_AI8) USIT-E	Minimum Acoustic Impedance 9 (MIN_AI9) USIT-E	Acoustic Impedance Minimum (AIMN) USIT-E	Custom Normalization	USIT - Acoustic Impedance With Micro-debonding Image (AI_MDEBOND_IMG) USIT-E	GR<75	Gamma Ray (GR) SGT-N	0 gAPI 150	Micro-Debonded	Gas	Liquid	Bonded
	Maximum Acoustic Impedance 1 (MAX_AI1) USIT-E		Maximum Acoustic Impedance 3 (MAX_AI3) USIT-E		Maximum Acoustic Impedance 5 (MAX_AI5) USIT-E		Maximum Acoustic Impedance 7 (MAX_AI7) USIT-E																
	Average Acoustic Impedance 1 (AV_AI1) USIT-E		Average Acoustic Impedance 3 (AV_AI3) USIT-E		Average Acoustic Impedance 5 (AV_AI5) USIT-E		Average Acoustic Impedance 7 (AV_AI7) USIT-E																
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15																
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
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	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
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	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
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	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7.5Mrayl 7.5		0 Mrayl 15		0 Mrayl 7.5						
	0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		0 Mrayl 15		-7.5Mrayl 7.5		-7.5Mrayl 7.5		-7										



TIME_1900 - Time Marked every 60.00 (s)

Description: USI Goodwin Format: USI Goodwin Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 14-Aug-2014 10:06:57

XYZ

Company: Anadarko Petroleum Company

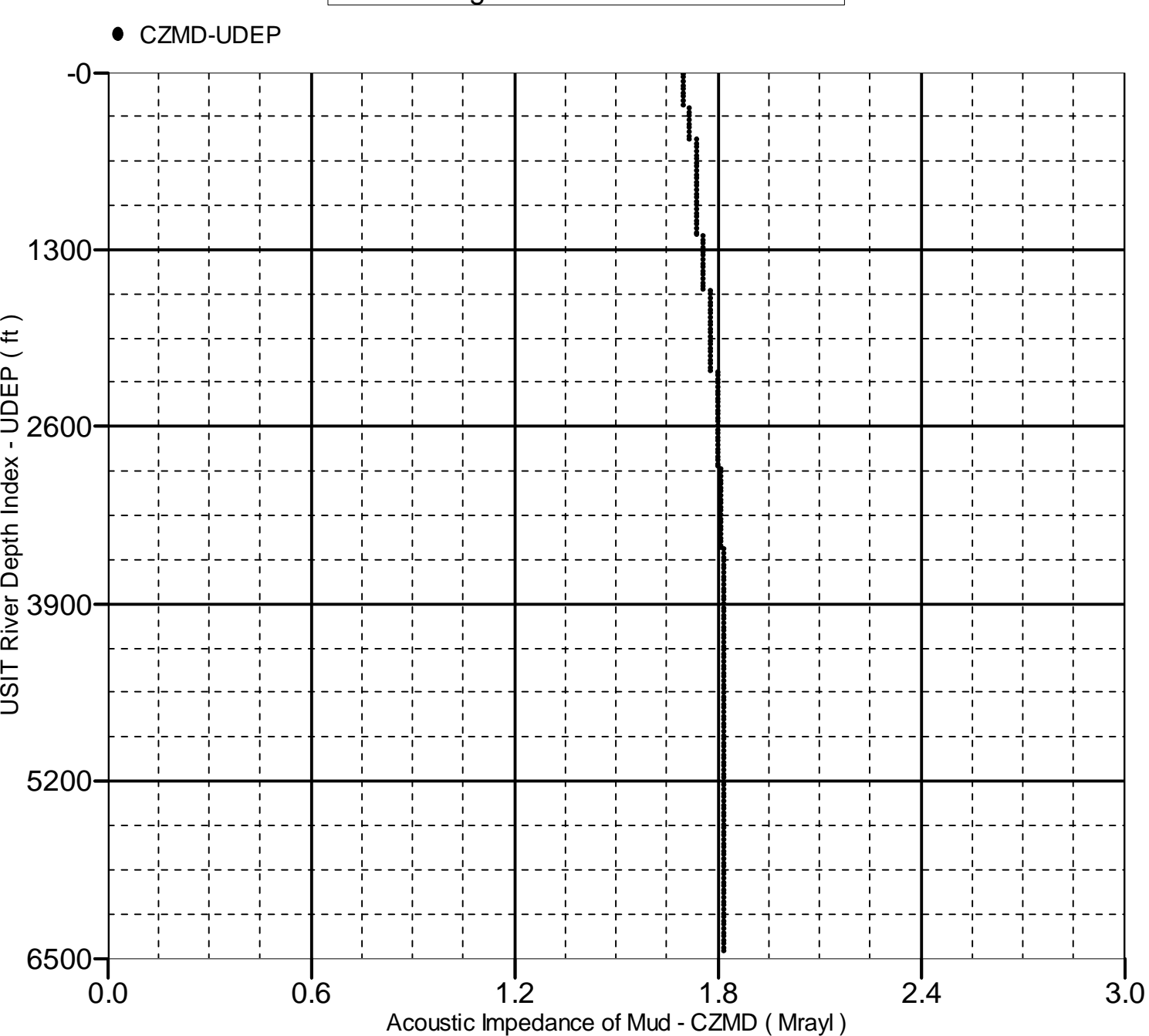
Well: Benson Farms 12N-23HZ

Run 1 : Main[3]:Up:S003

Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 6462.00 to 10.25 ft



XYZ

Company: Anadarko Petroleum Company

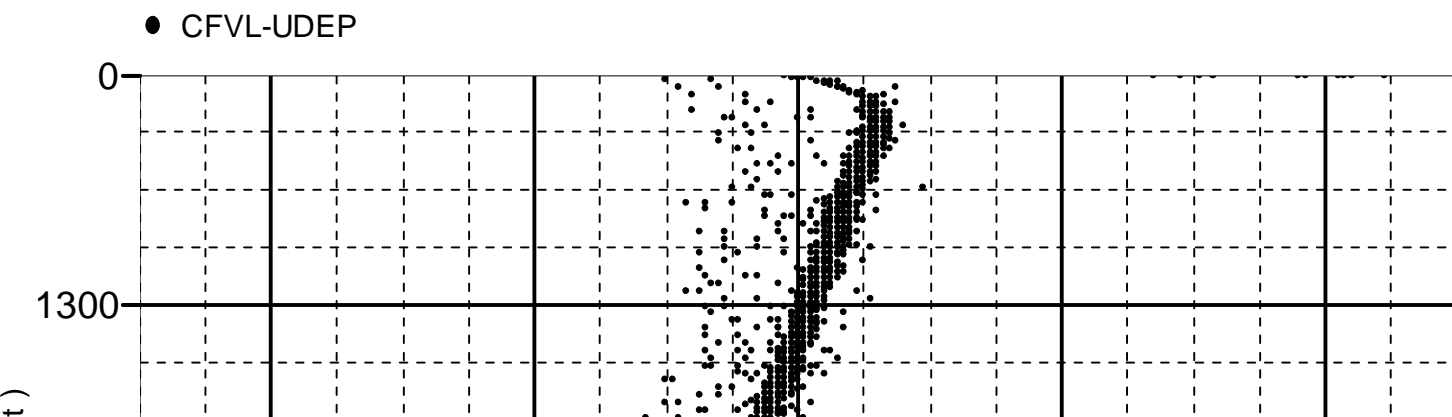
Well: Benson Farms 12N-23HZ

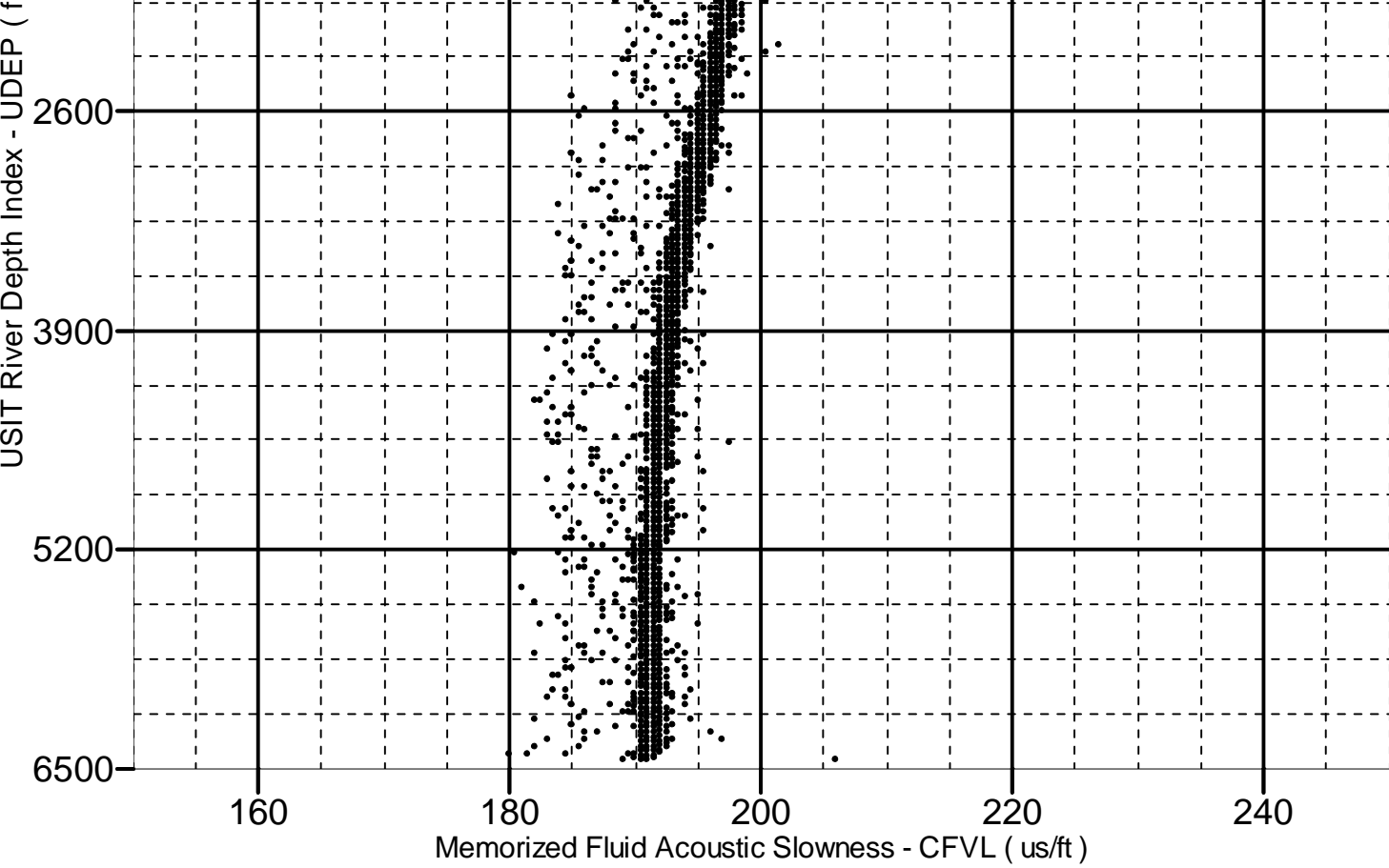
Run 1 : Main[3]:Up:S003

Fluid Acoustic Slowness vs Depth

2D Cross Plot

Index Range: From 6462.00 to 10.25 ft





Company:	Anadarko Petroleum Company	Schlumberger
Well:	Benson Farms 12N-23HZ	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
Ultrasonic Imager		
Cement Evaluation		
Gamma Ray - CCL		