



9.4 Log ( SCMT\_VDL\_Image )

9.5 Parameter Listing

10. Two

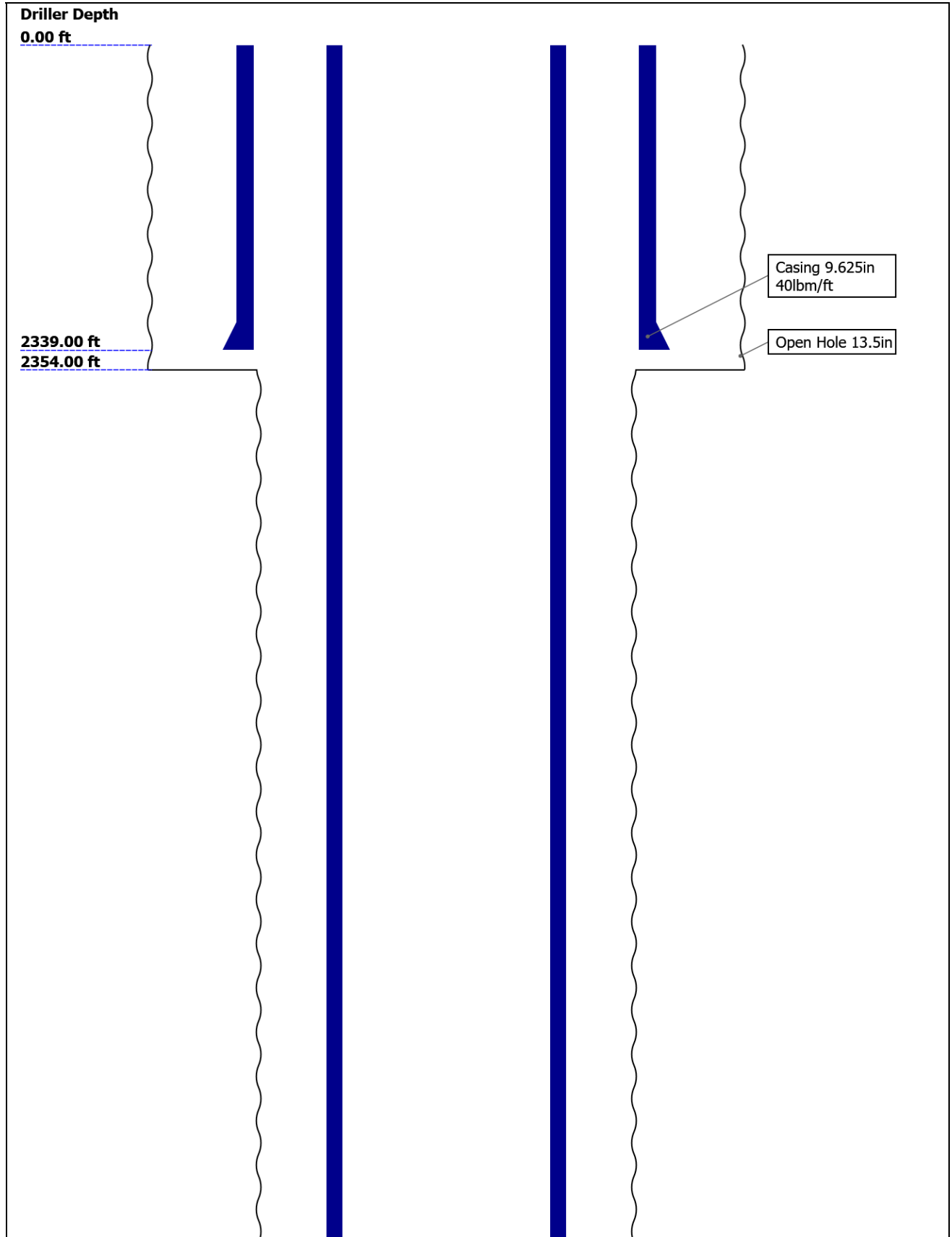
10.1 Integration Summary

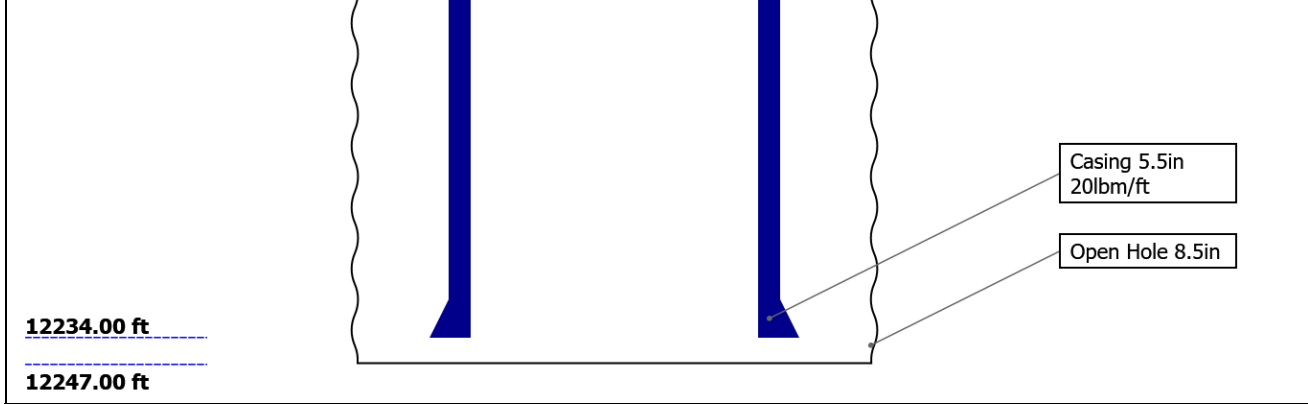
10.2 Software Version

10.3 Composite Summary

10.4 Log ( SCMT\_VDL\_Image\_Repeat )

## Well Sketch




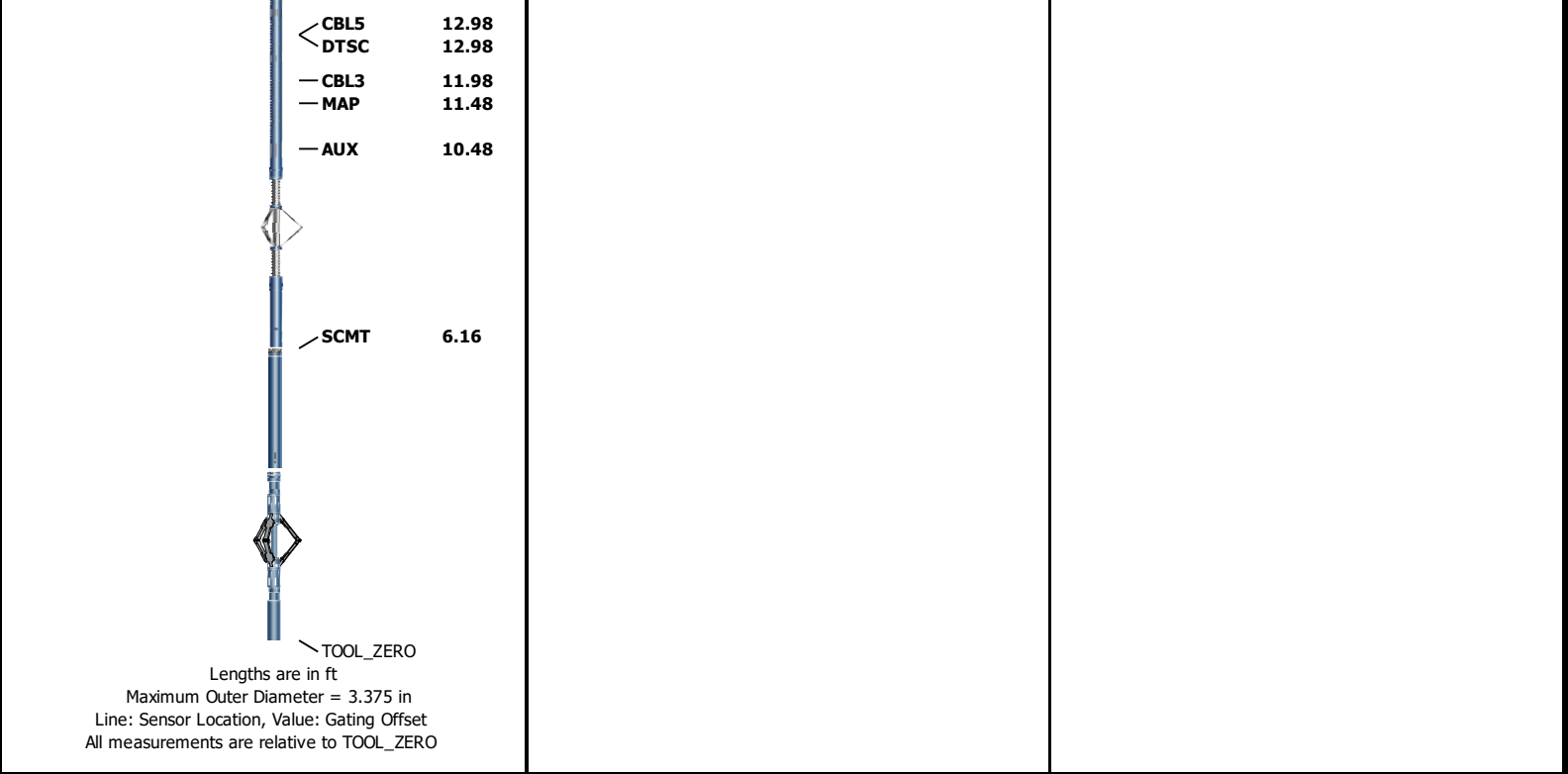


## Borehole Size/Casing/Tubing Record

Bit						
Bit Size ( in )	13.5	8.5				
Top Driller ( ft )	0	2354				
Top Logger ( ft )	0	2354				
Bottom Driller ( ft )	2354	12247				
Bottom Logger ( ft )	2354	12247				
Casing						
Size ( in )	9.625	5.5				
Weight ( lbm/ft )	40	20				
Inner Diameter ( in )	8.835	4.778				
Grade	N/A	N/A				
Top Driller ( ft )	0	0				
Top Logger ( ft )	0	0				
Bottom Driller ( ft )	2339	12234				
Bottom Logger ( ft )	2339	12234				

## Remarks and Equipment Summary

Two: Toolstring				Two: Remarks	
<div><div><div>Equip name</div><div>LEH-QT</div><div>LEH-QT</div></div><div><div>Length</div><div>32.49</div></div><div><div>MP name</div><div>Offset</div></div></div>		<div><div>24.57</div><div>24.27</div><div>0.00</div><div>21.49</div><div>21.37</div><div>20.76</div><div>20.01</div><div>14.48</div></div>	Thank you for choosing Schlumberger!		
			Toolstring run centralized as per toolsketch		
			Log correlated to IBC log at 6612 ft.		
			Log run under 0 psi		
			Annular Fluid: 10.5 ppg OBM Spacer: 11 ppg Lead Cement: 12.5 ppg Tail Cemnet: 13.5 ppg		
<div><div>AH-323</div><div>AH-329</div><div>PSTP-A:192</div><div>5</div><div>PSC-A:2776</div><div>PSTC-A:2776</div><div>PBMS-A:1925</div><div>Sapphire 10kP</div><div>SI:2776</div></div>	<div><div>29.00</div><div>28.57</div><div>28.27</div></div>		Crew: Alex Schaab		
<div><div>SCMT-CB:82</div><div>58</div><div>SECH-CA</div><div>SCMC-CA:814</div><div>0</div><div>SCMS-CB:825</div><div>8</div><div>SCMX-CA:821</div><div>3</div><div>CMIR-AG</div></div>	<div><div>20.01</div></div>				



Depth Summary			
	Two		
Depth Measuring Device			
Type	IDW-JA		
Serial Number	6241		
Calibration Date	30-Apr-2019		
Calibrator Serial Number	IDWC-C-57		
Calibration Cable Type	7-46 PXS		
Wheel Correction 1	-1		
Wheel Correction 2	-2		
Tension Device			
Type	CMTD-B/A		
Serial Number	161		
Calibration Date	13-May-2019		
Calibrator Serial Number	1148		
Number of Calibration Points	10		
Calibration Root Mean Square Error	6		
Calibration Peak Error	10		
Logging Cable			
Type	7-46P-XS		
Serial Number	U712020		
Length	23245.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane		
Two:Depth Control Parameters		Depth Control Remarks	
Log Sequence	Subsequent Log In the Well	All Schlumberger depth control procedures were followed	
Reference Log Name	Isolation Scanner	IDW used as primary depth control.	



Two

Main Pass

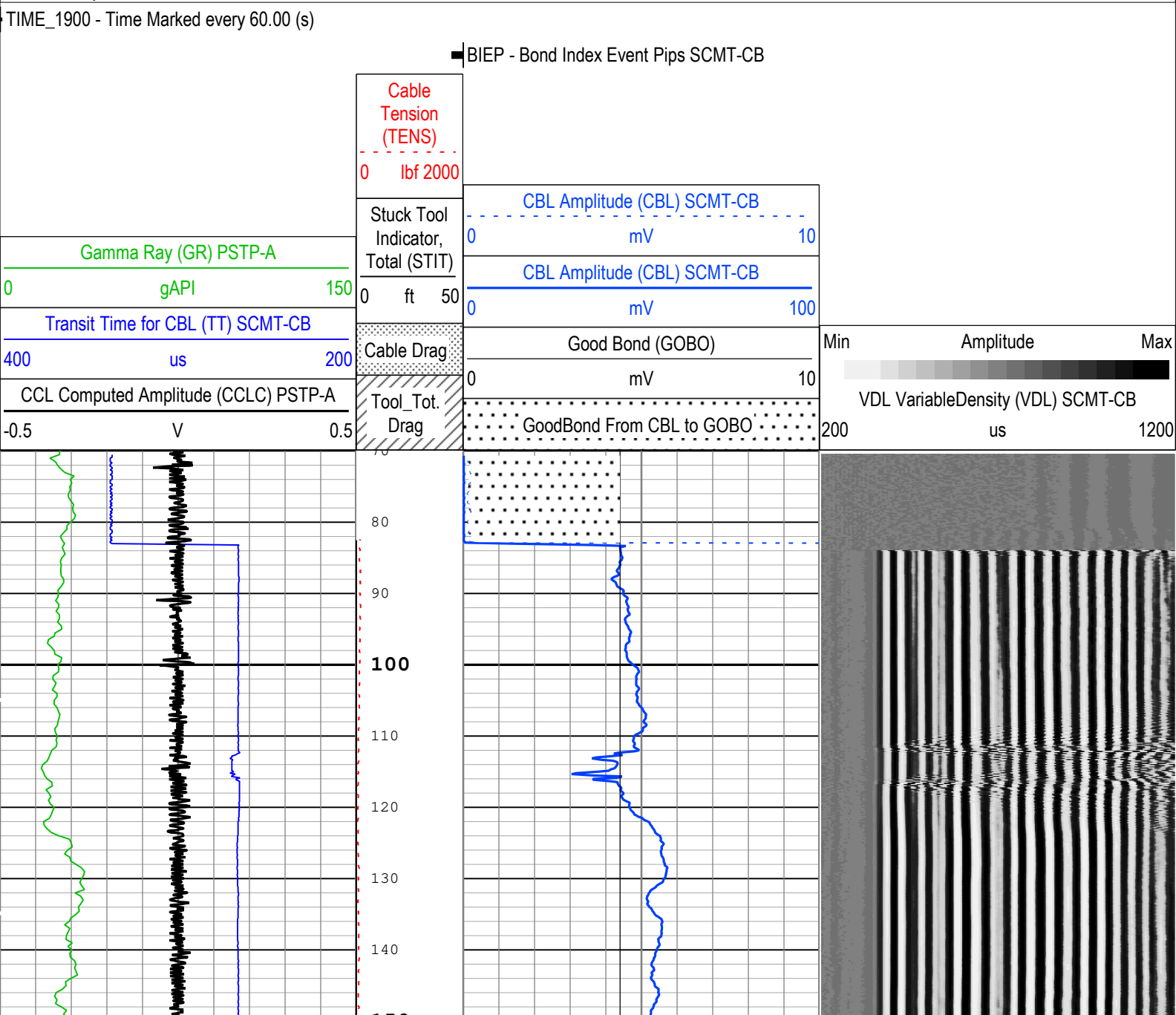
Software Version	
Acquisition System	Version
Maxwell 2019	9.0.106845.3100

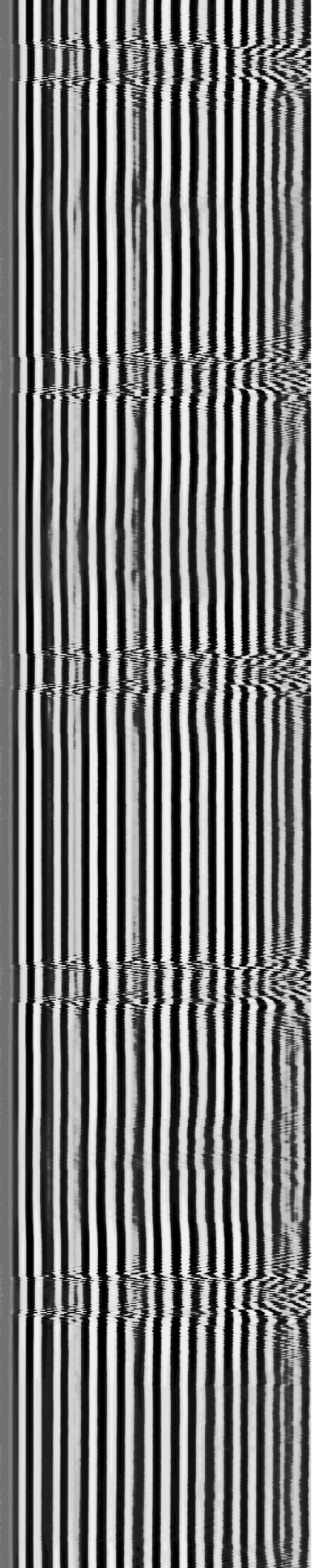
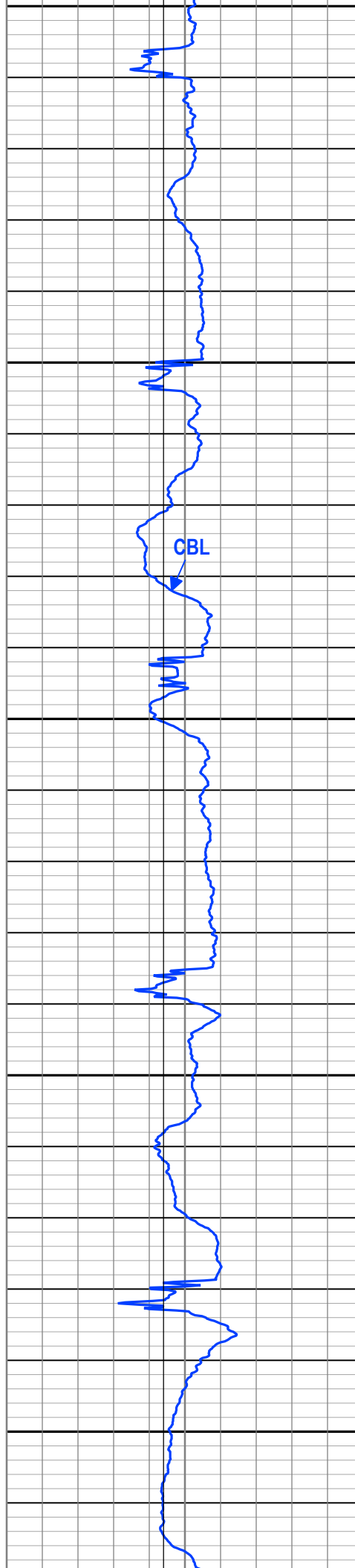
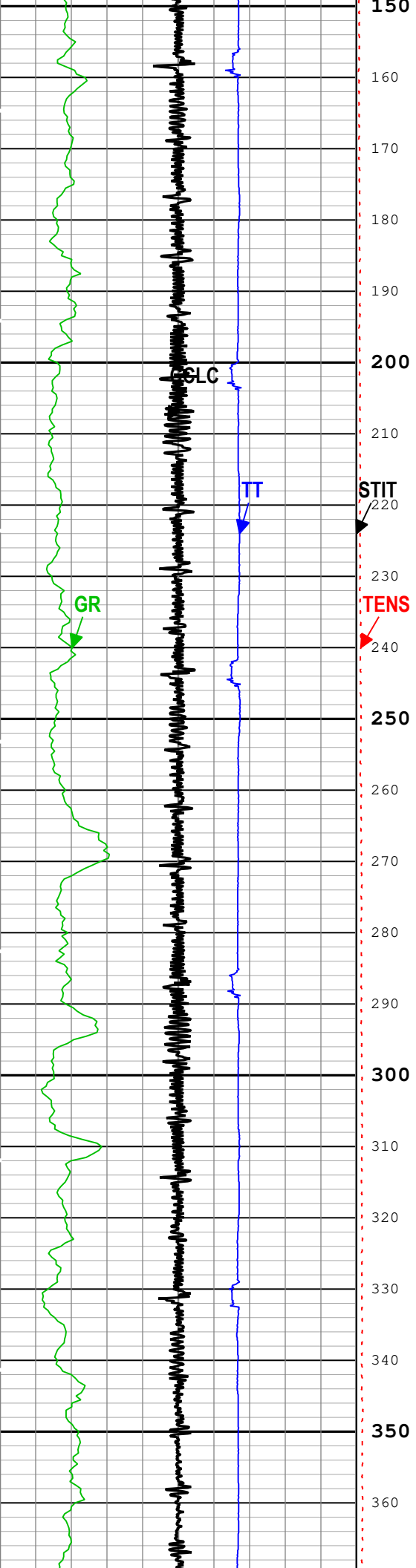
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Two	Log[4]:Up	Up	82.38 ft	7081.67 ft	21-May-2019 1:45:09 PM	21-May-2019 5:49:45 PM	ON	1.88 ft	No

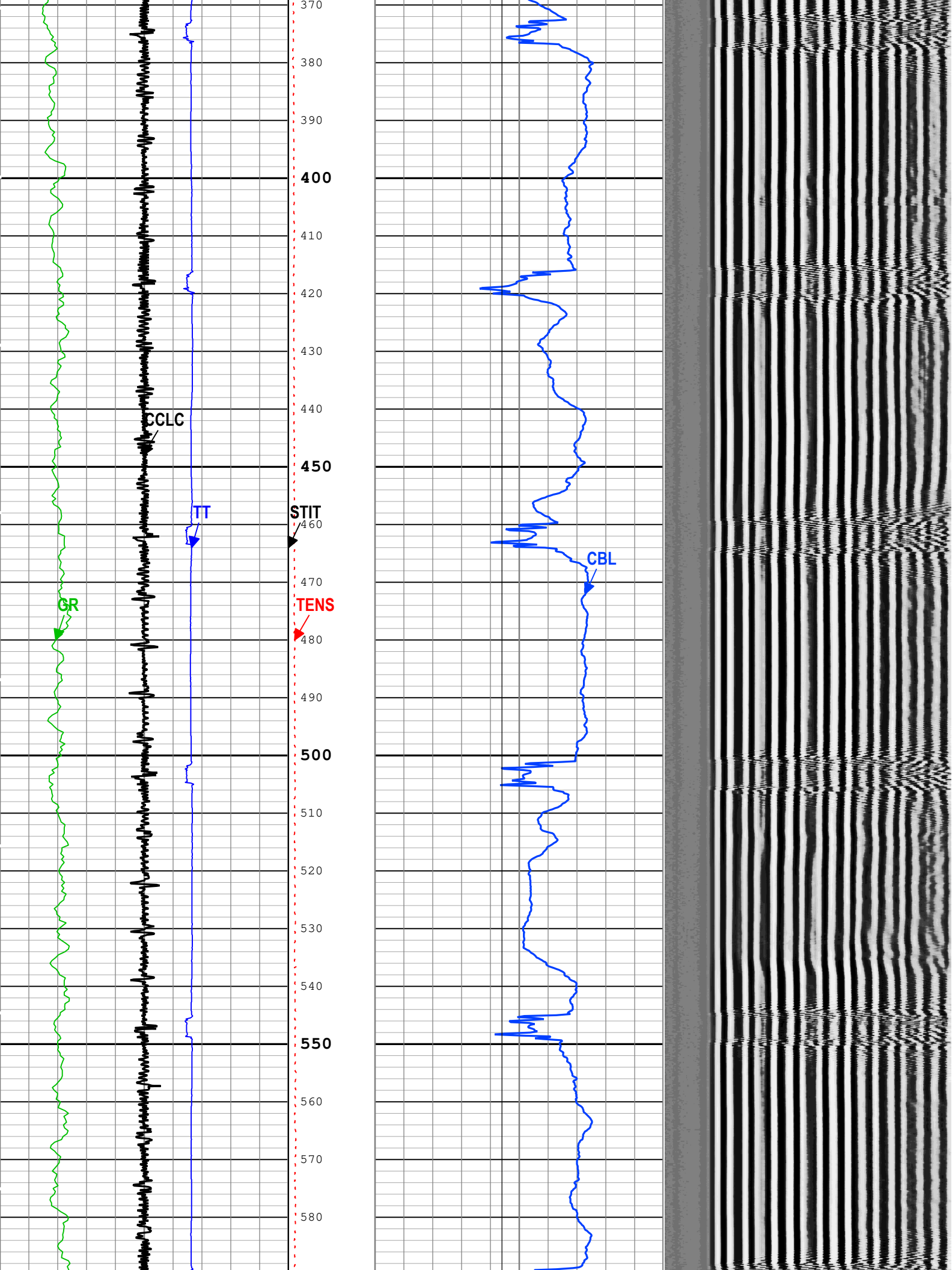
All depths are referenced to toolstring zero

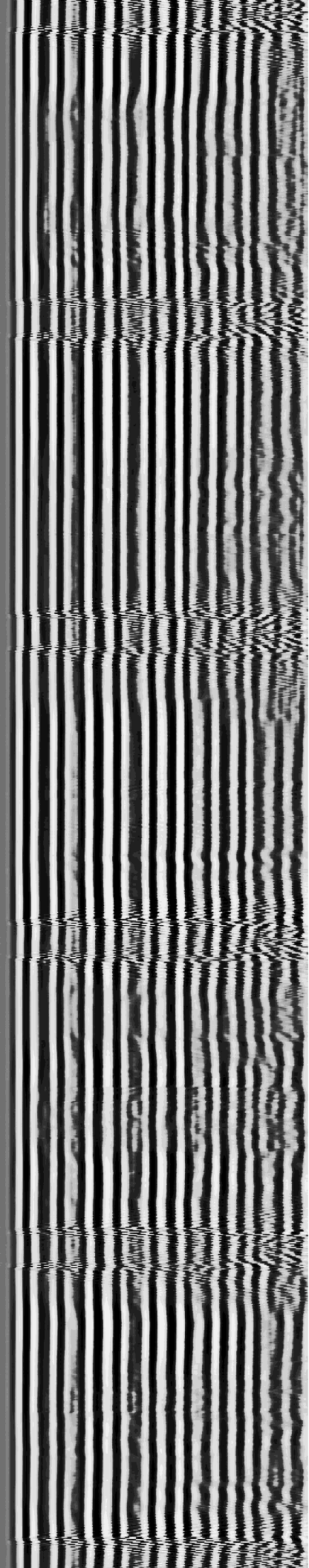
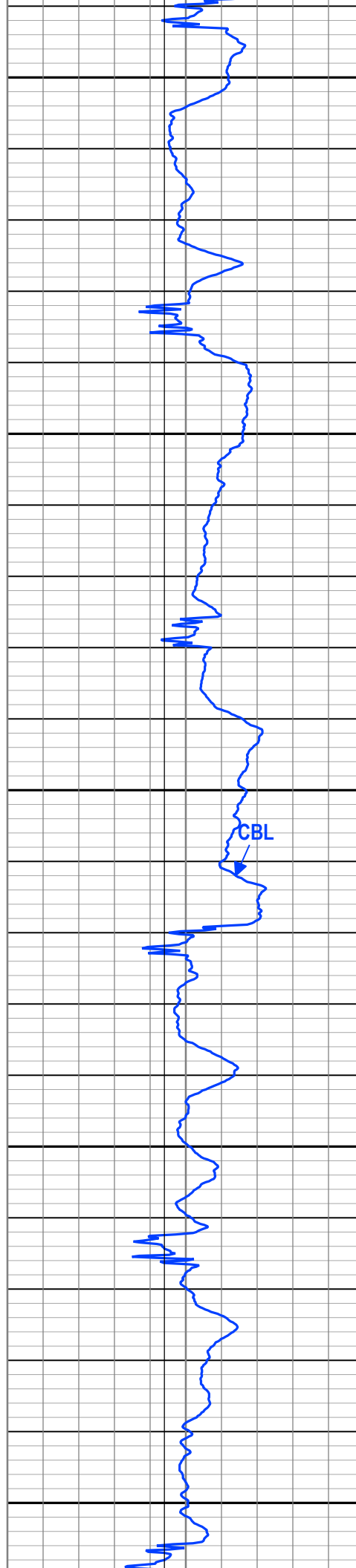
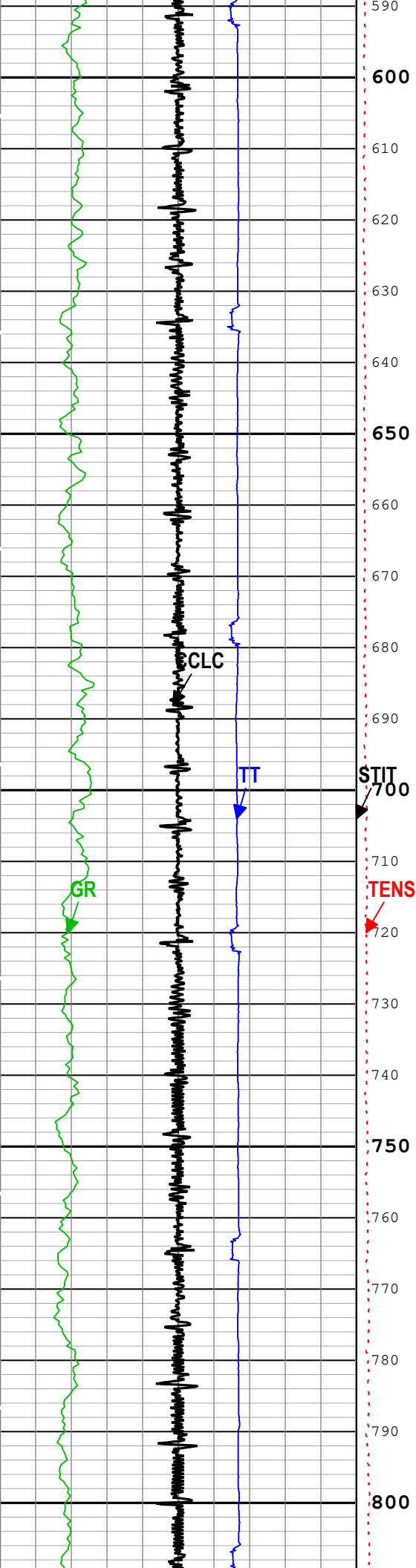
Log	Company:Crestone Peak Resources and Operating LLC	Well:Echeverria 2I-2H-D267
	Two: Log[4]:Up:S011	

Description: Sonic CBL with VDL    Format: Log ( Sonic CBL with VDL )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 22-May-2019 09:26:01

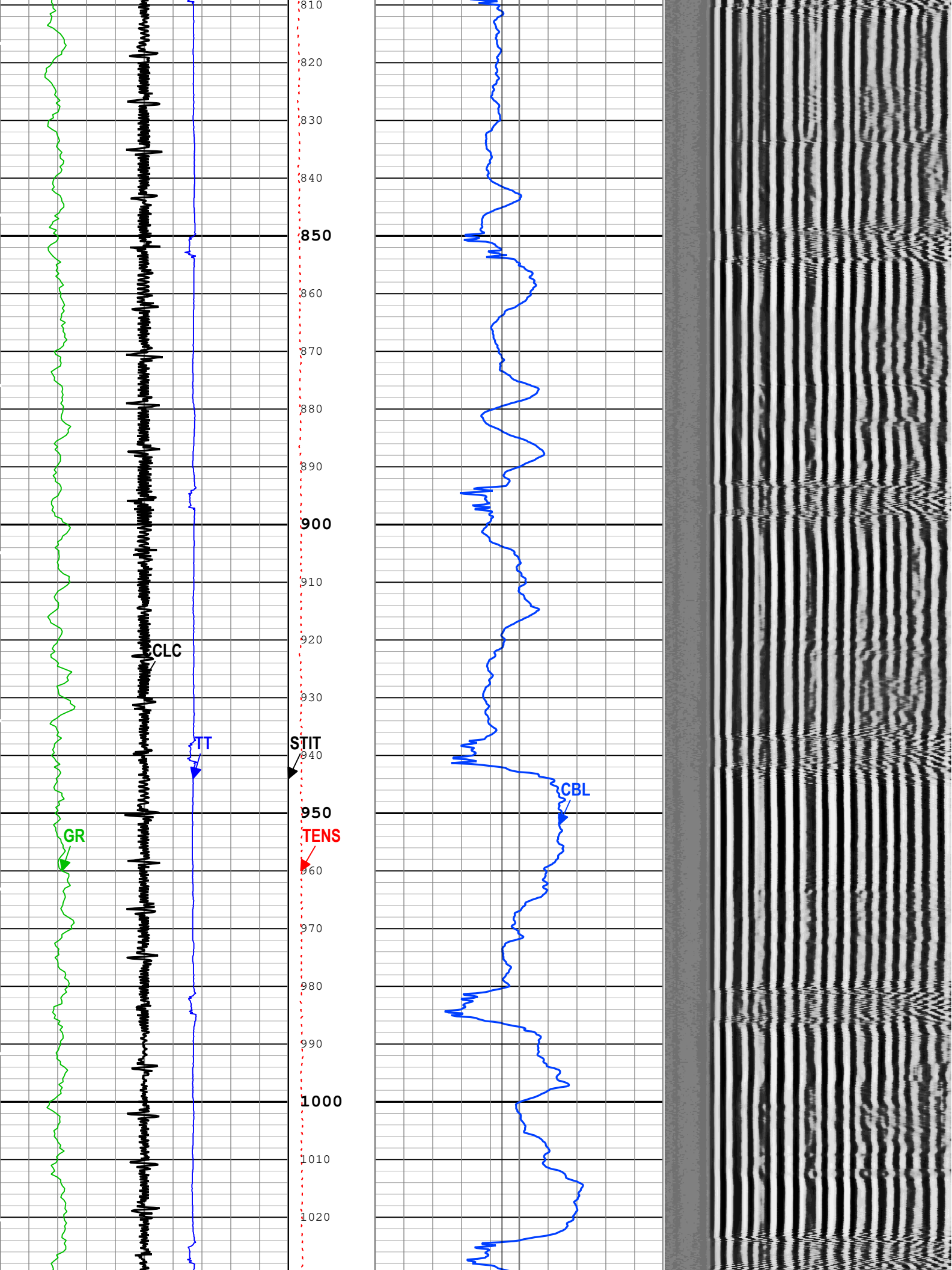


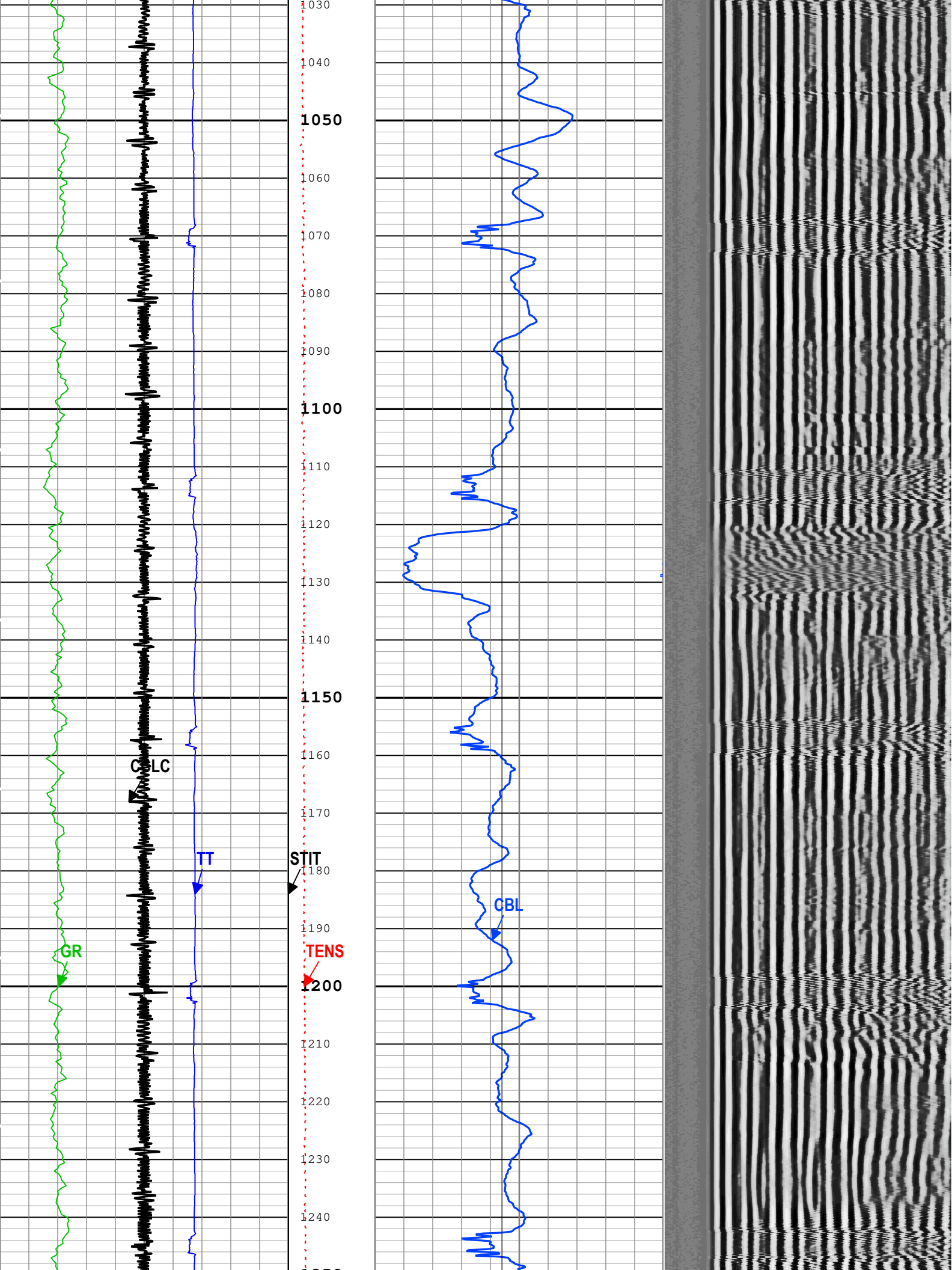


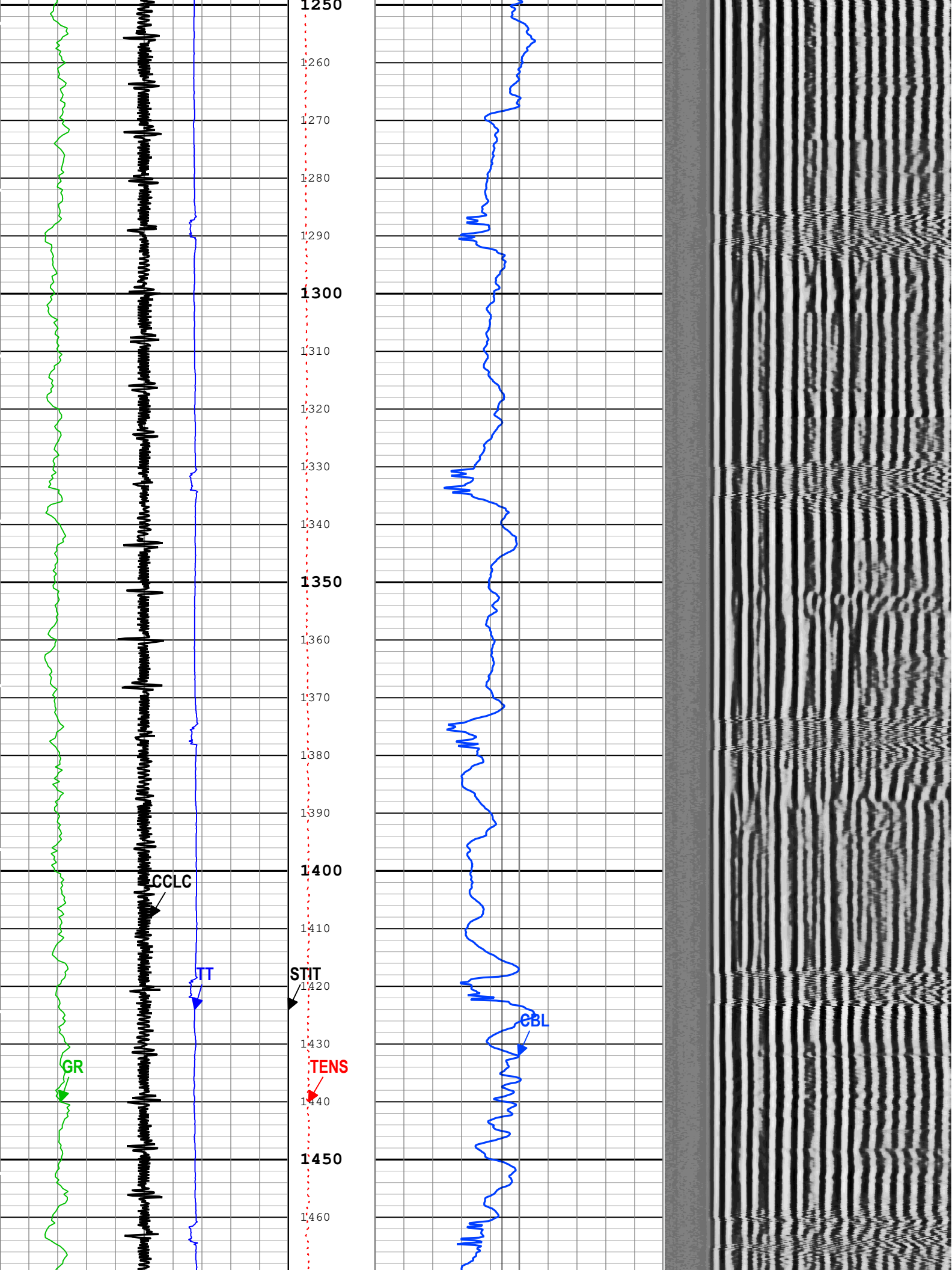




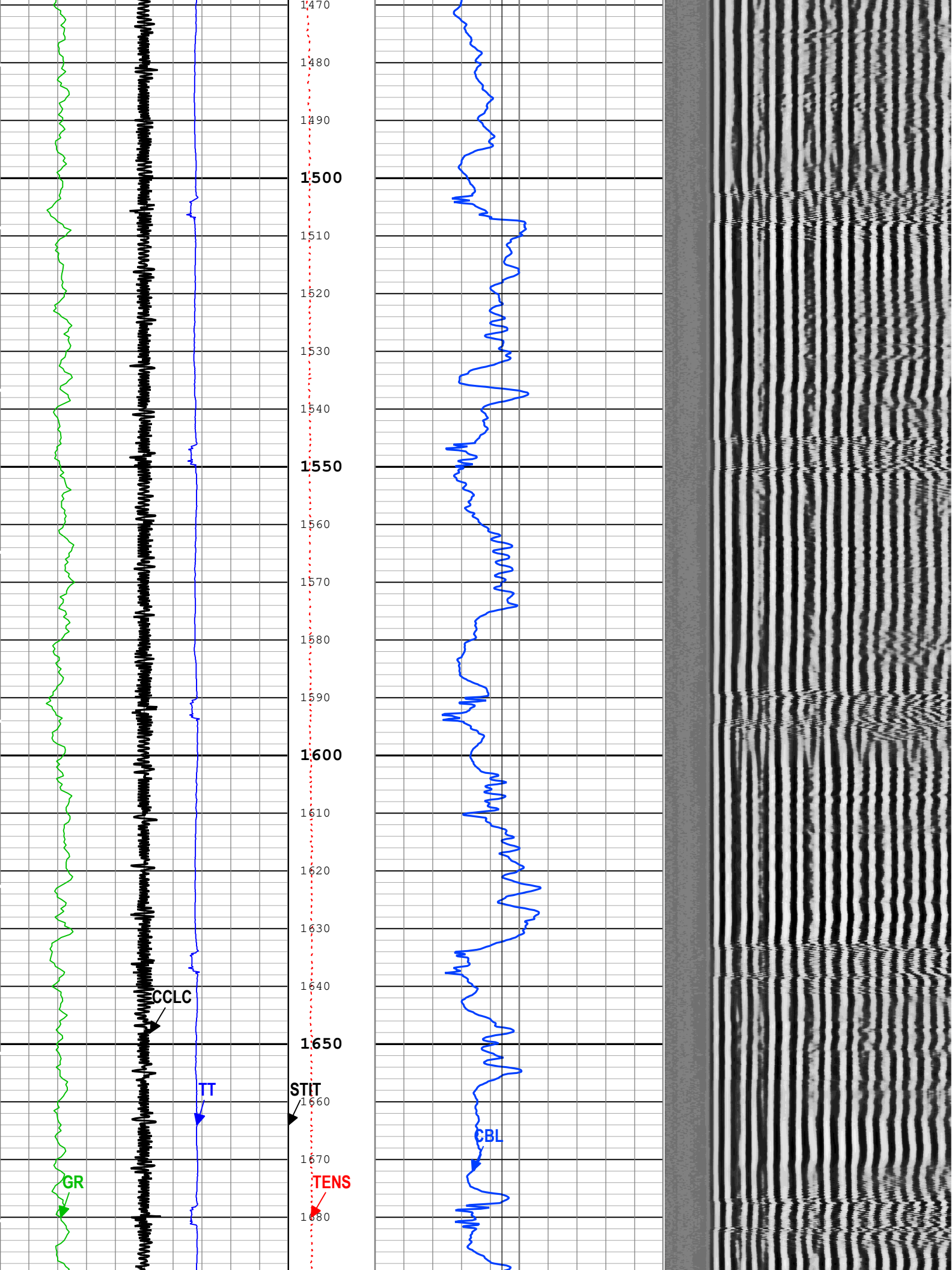




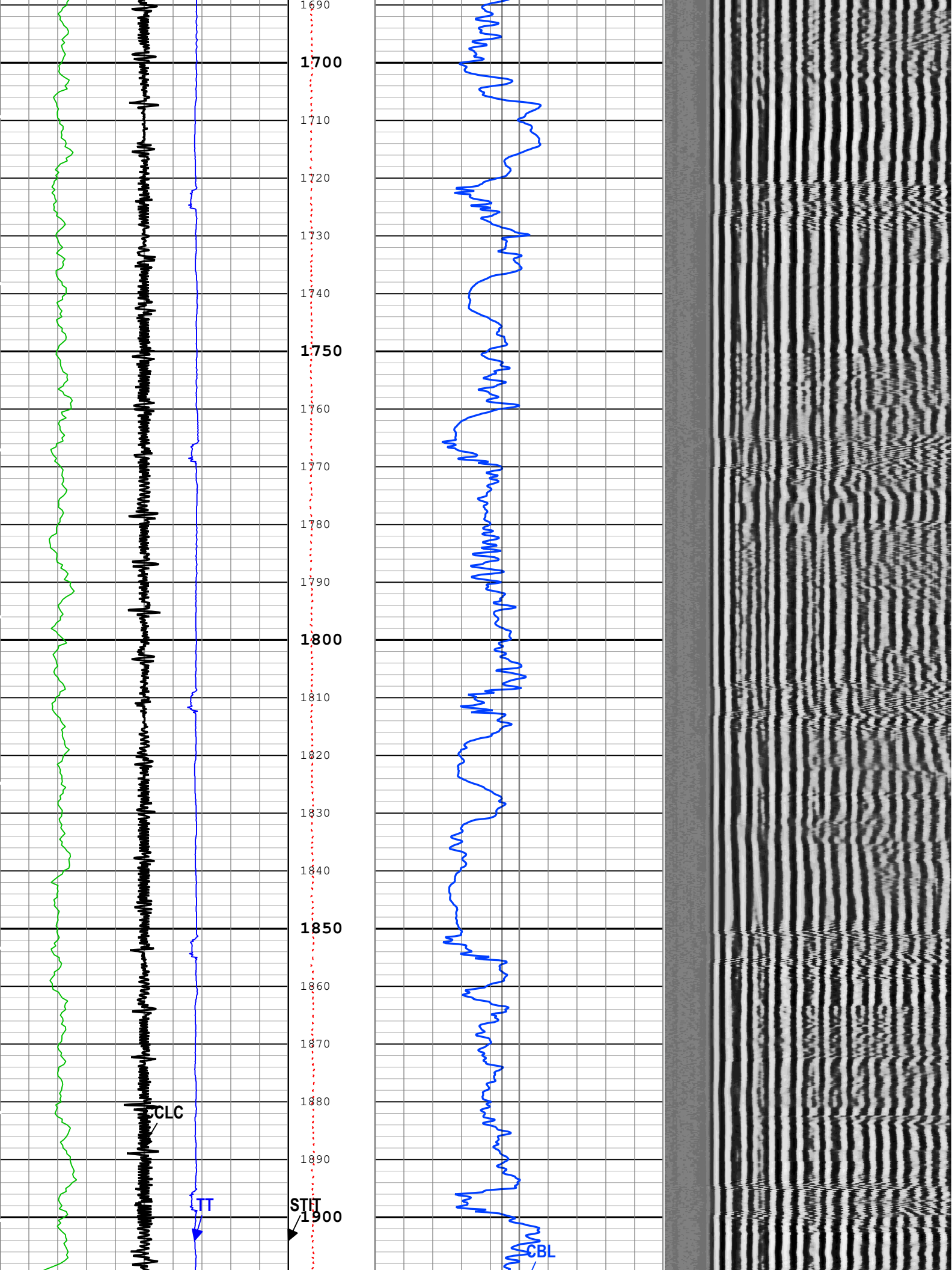


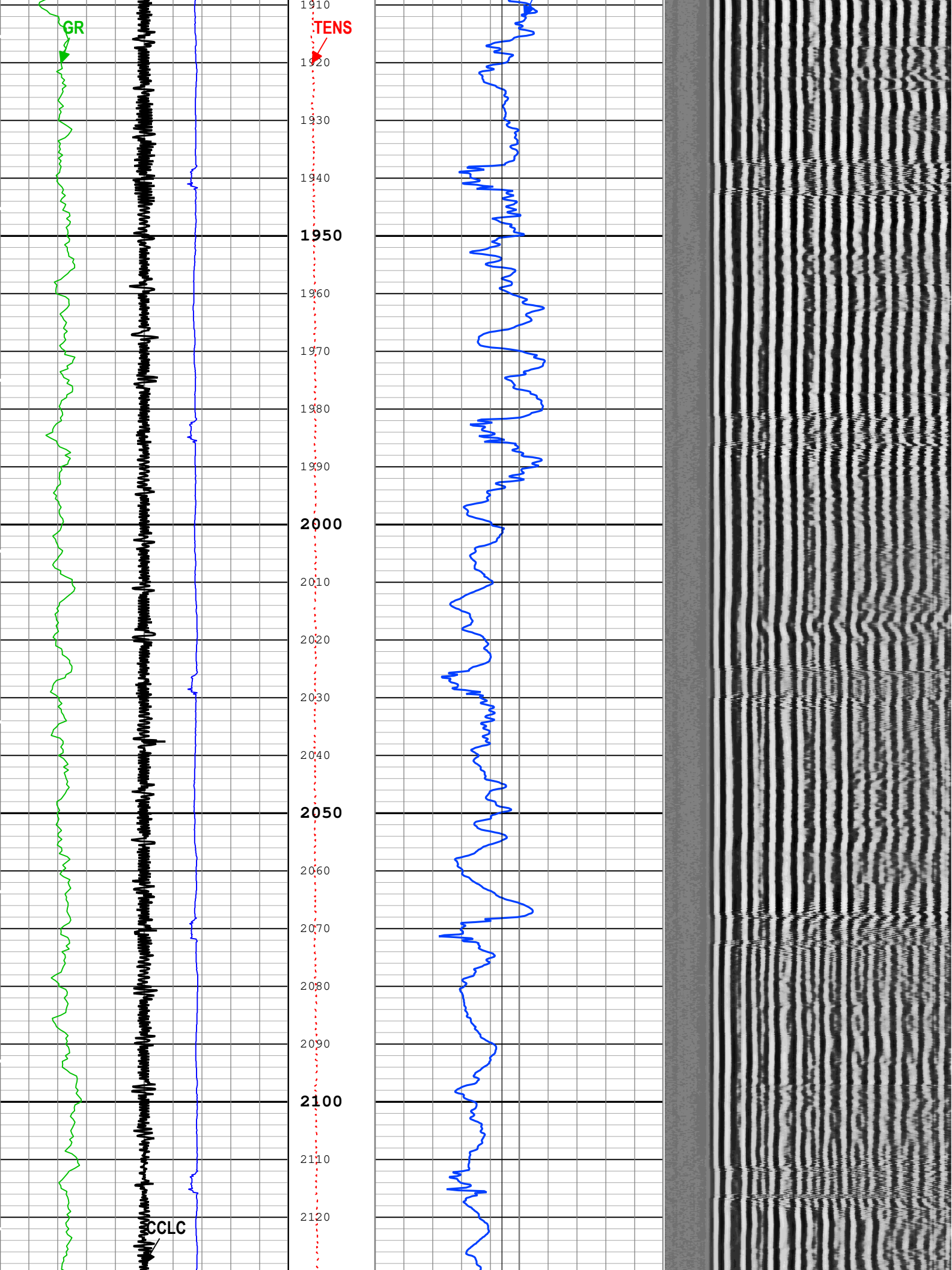


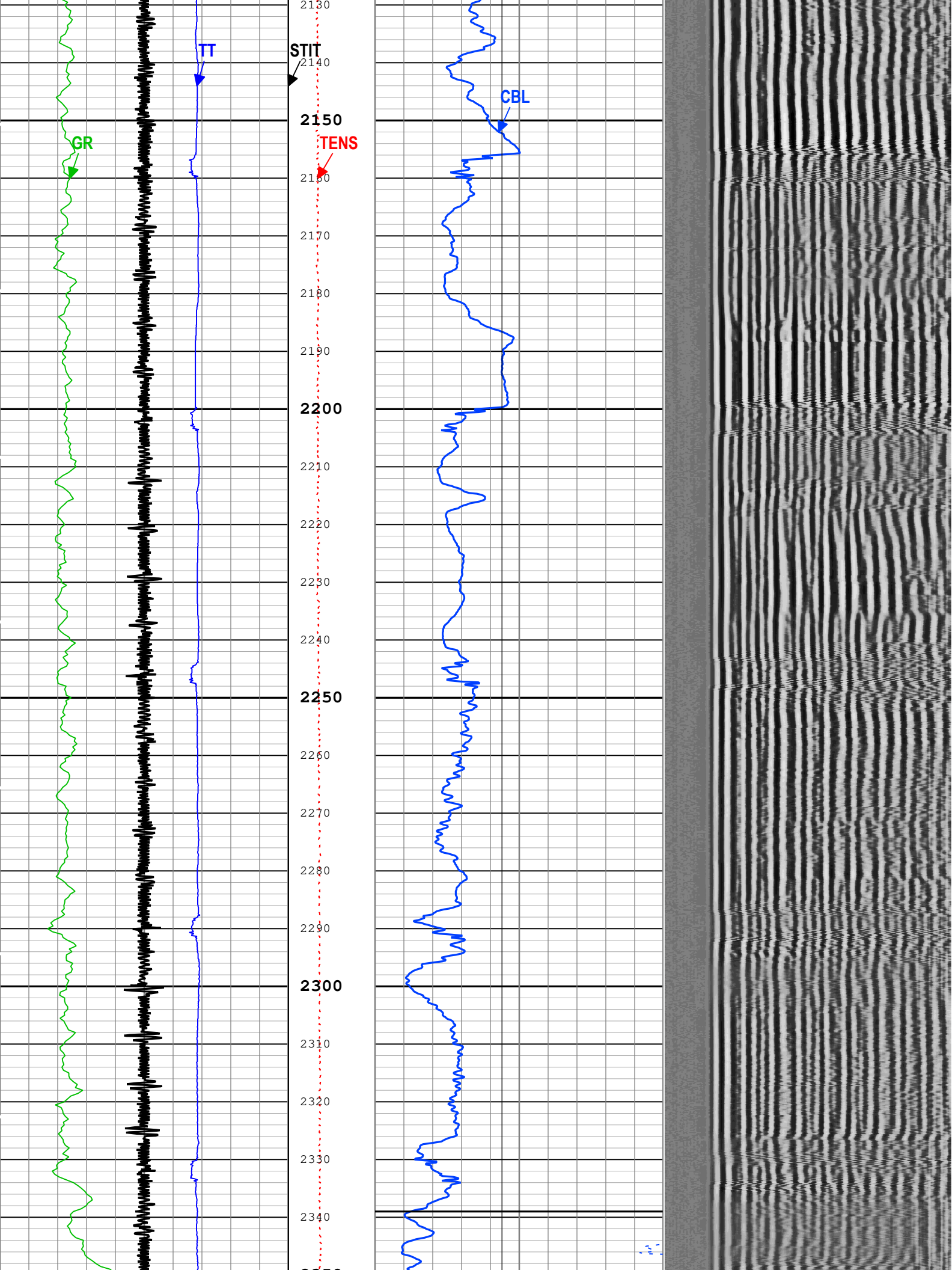




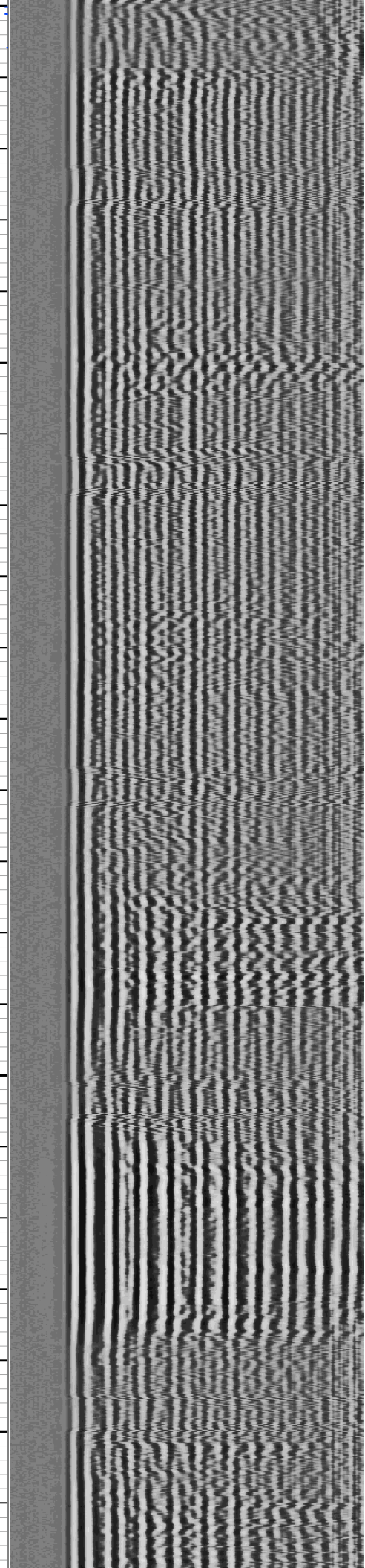
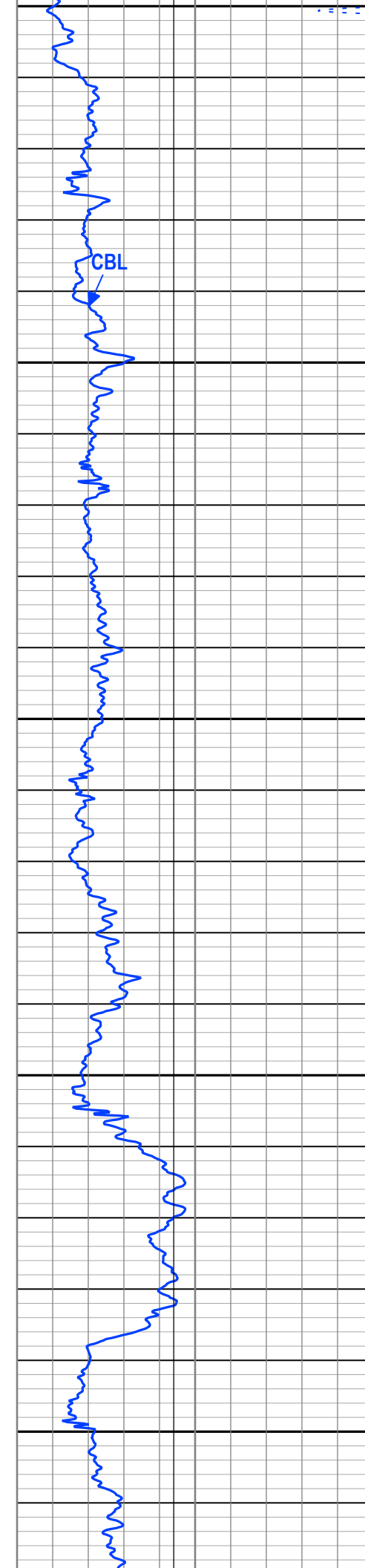
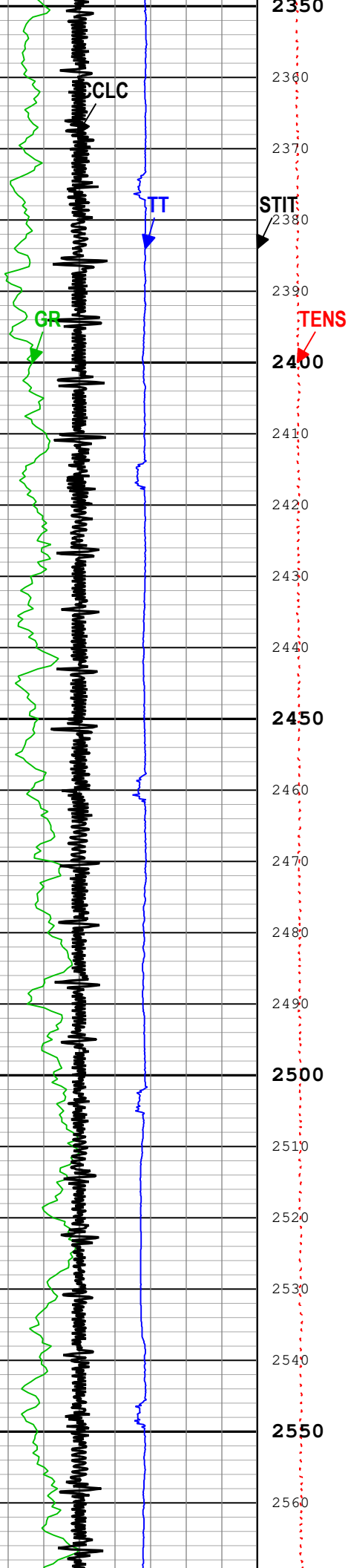


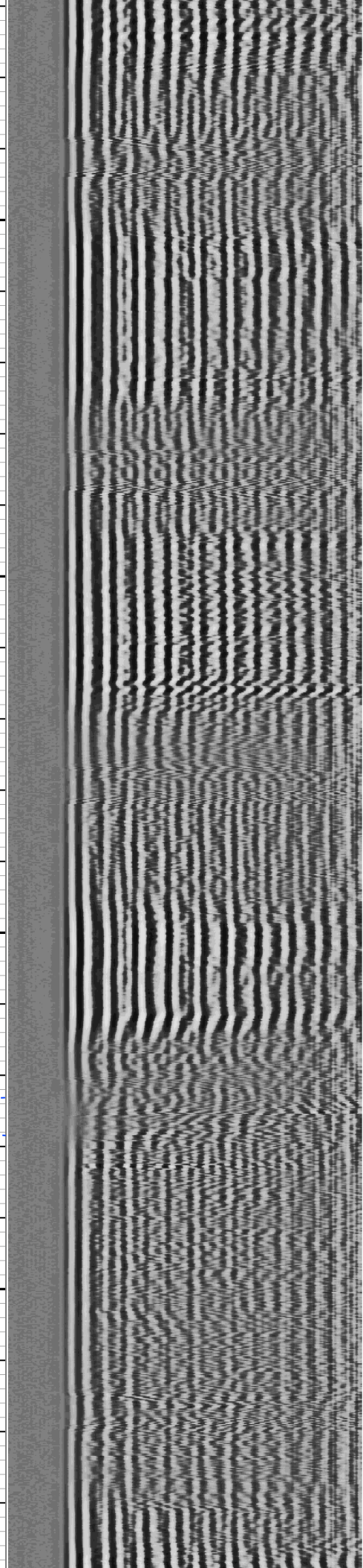
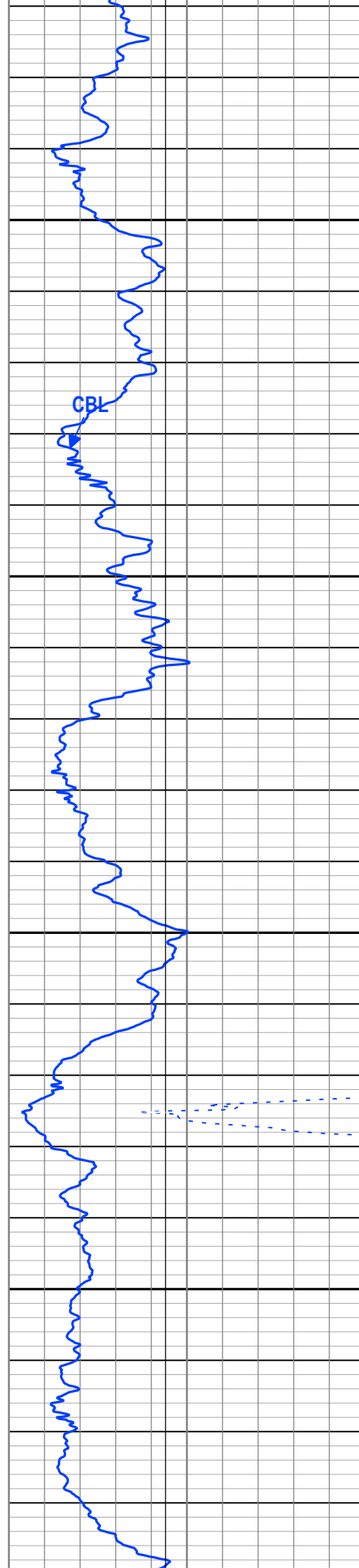
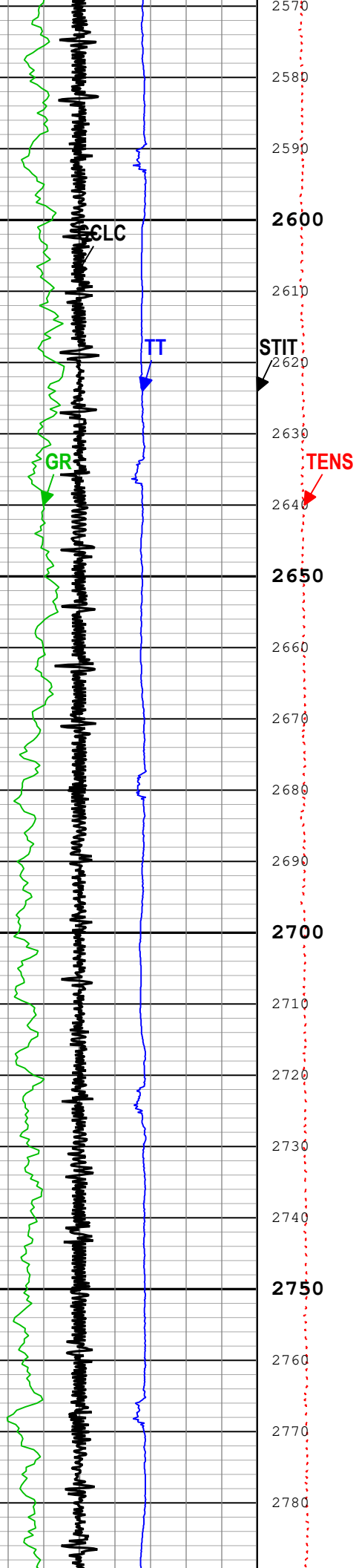




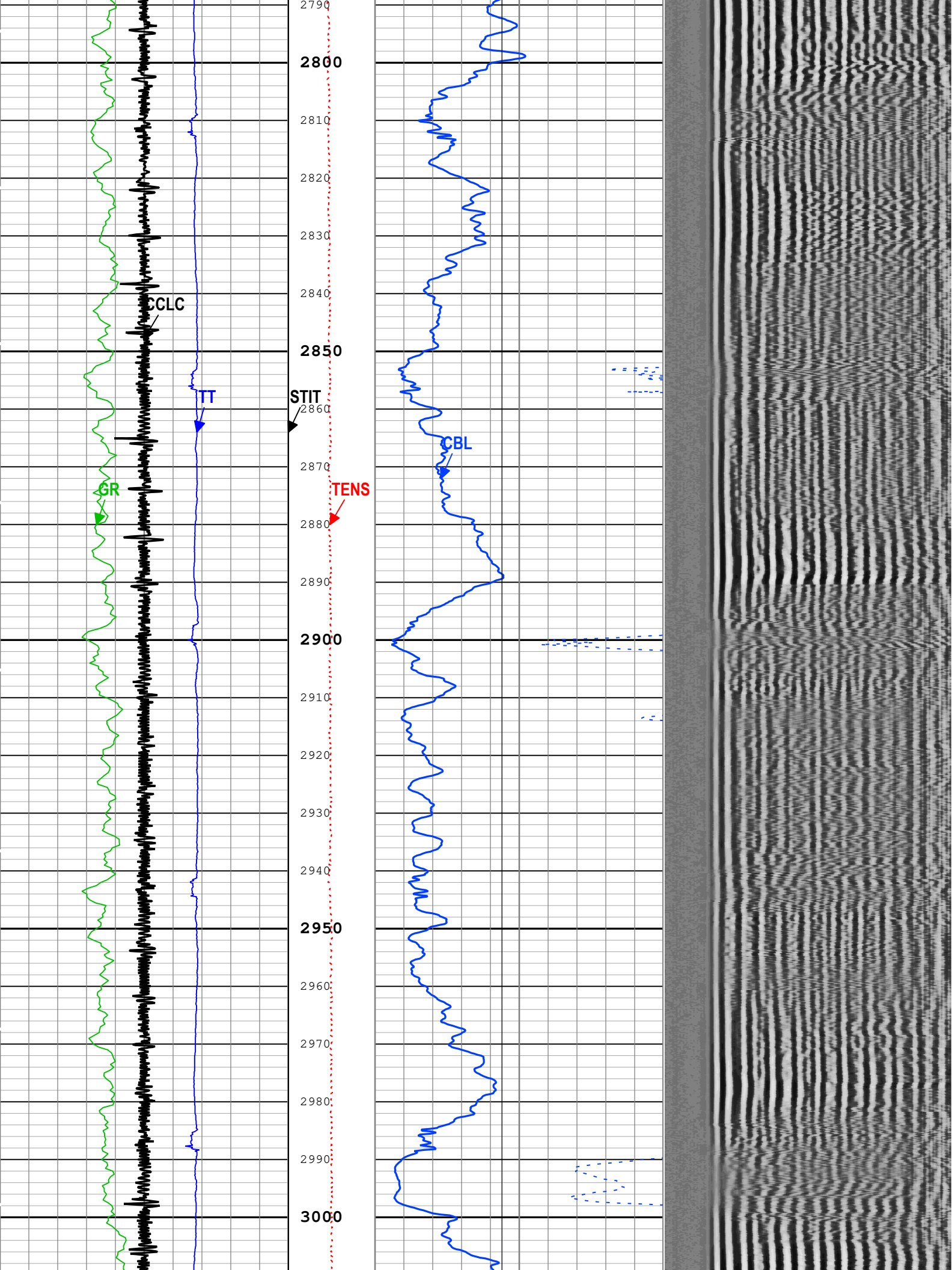


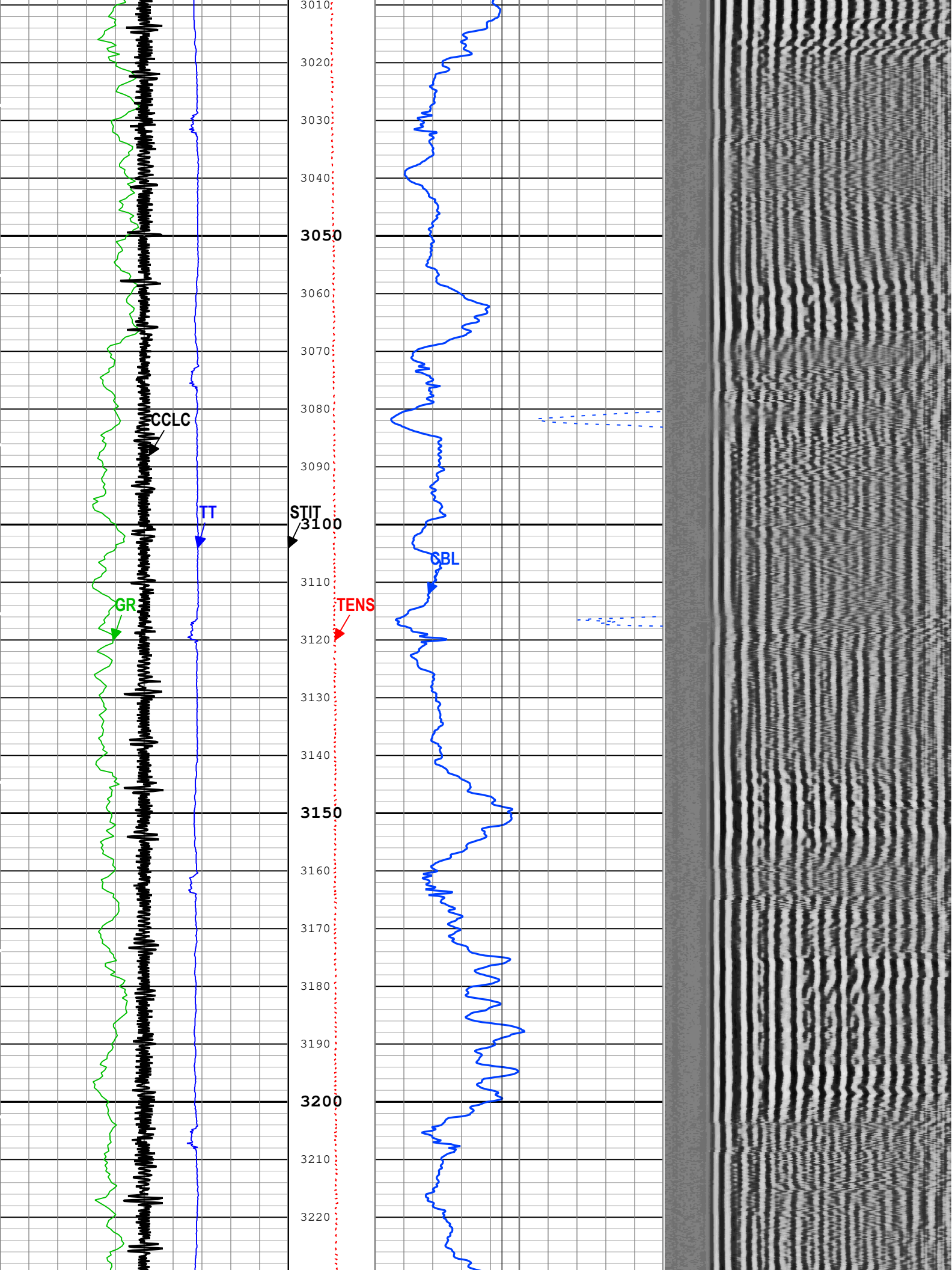




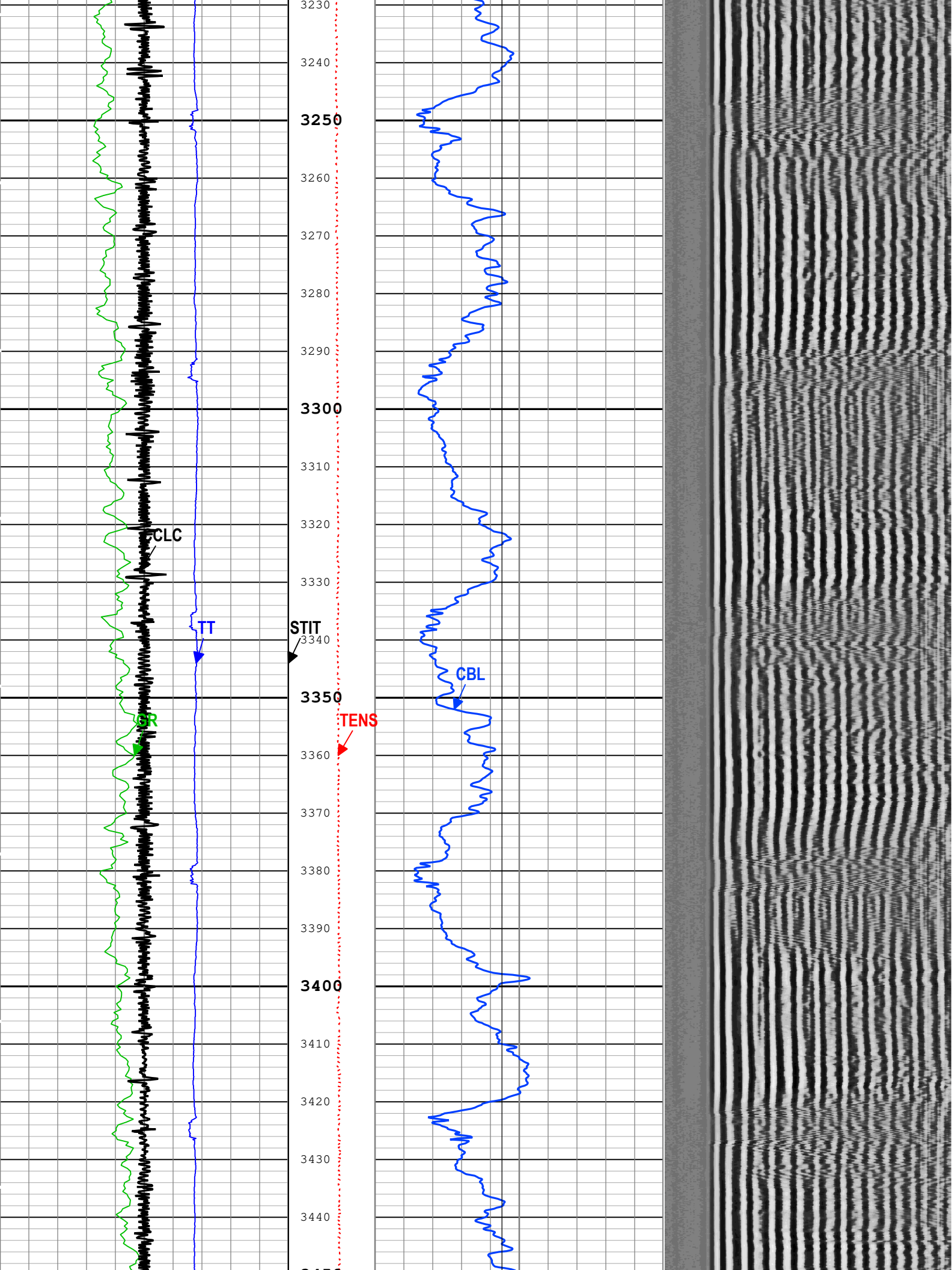




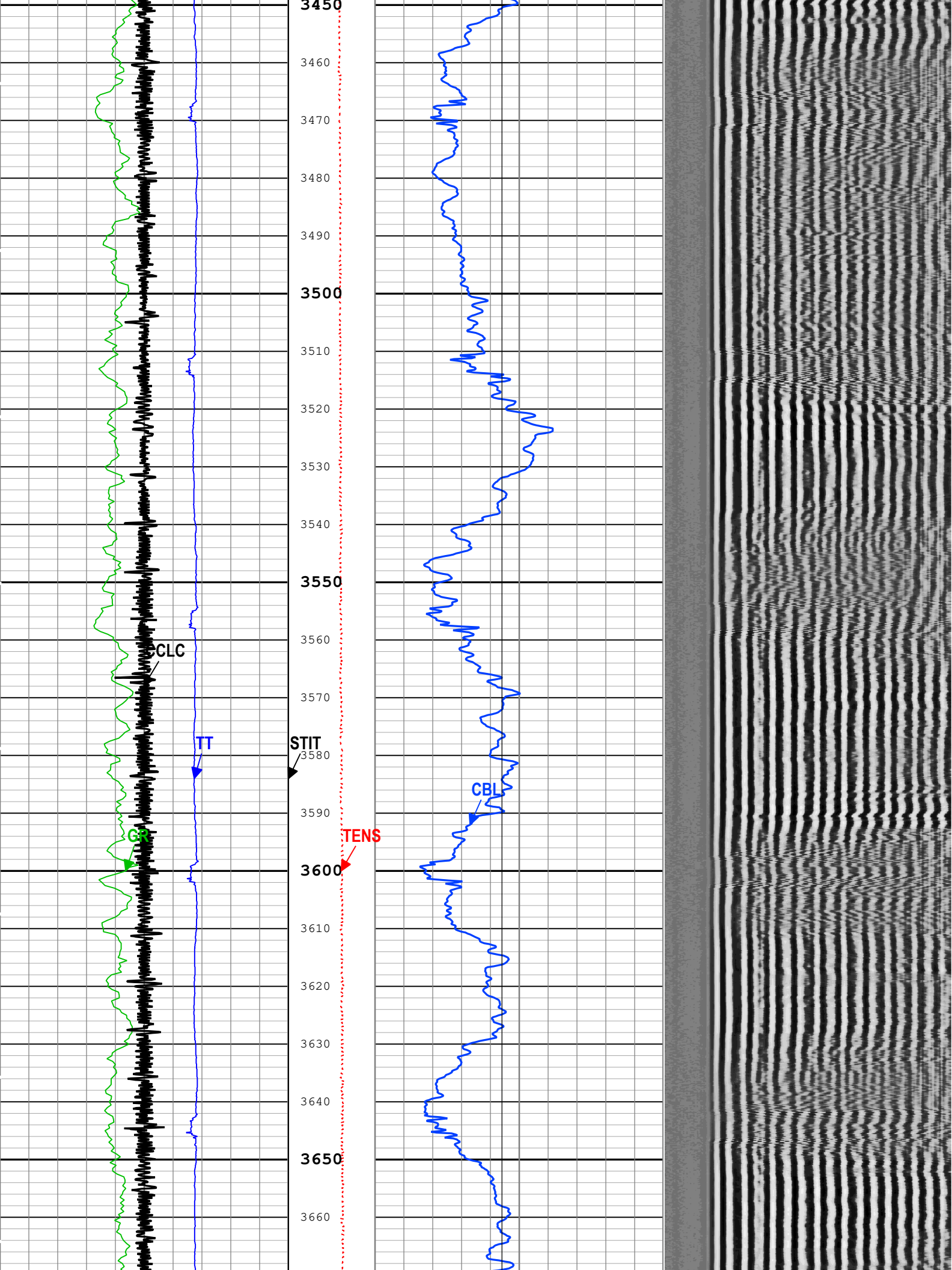


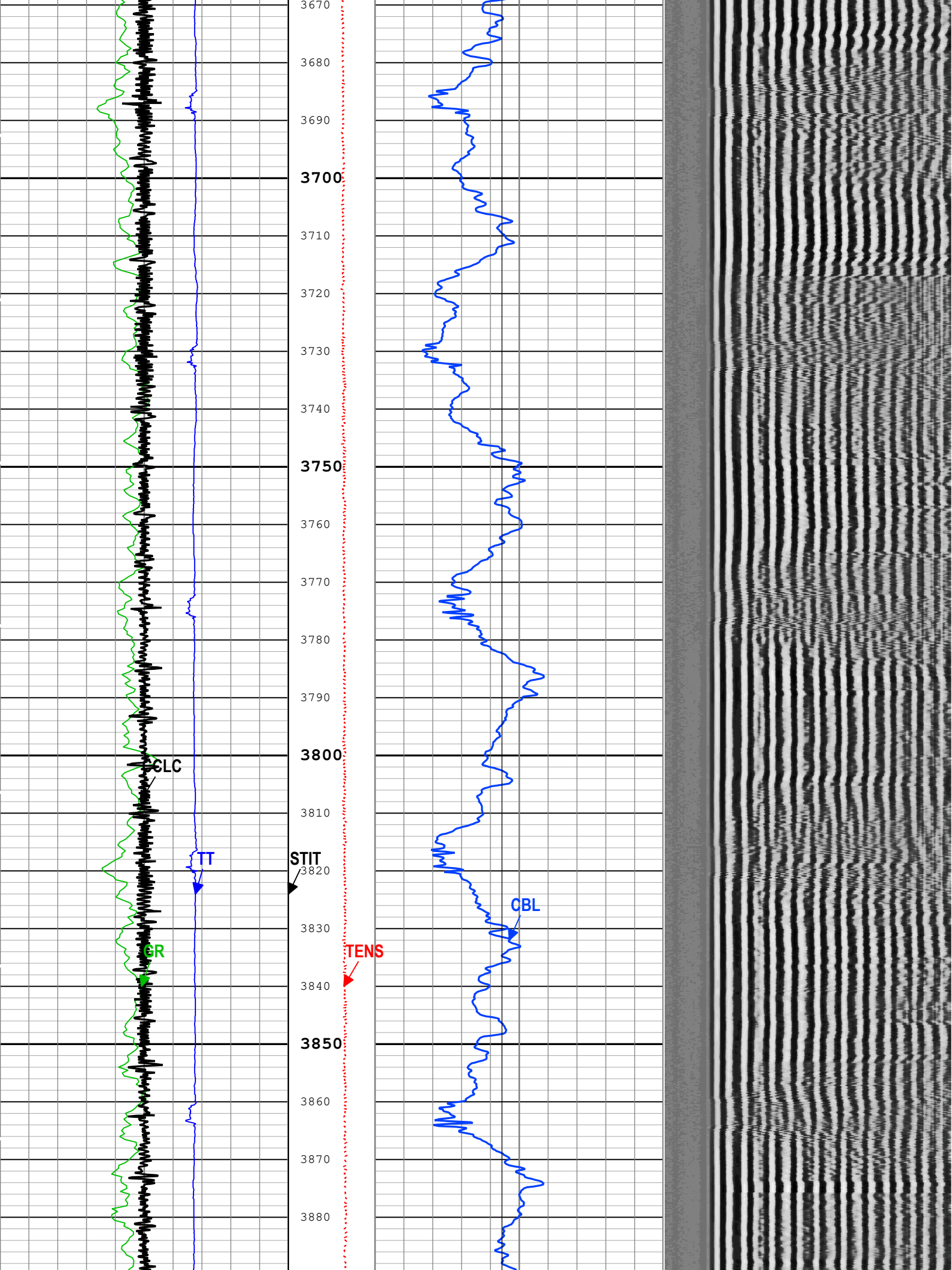




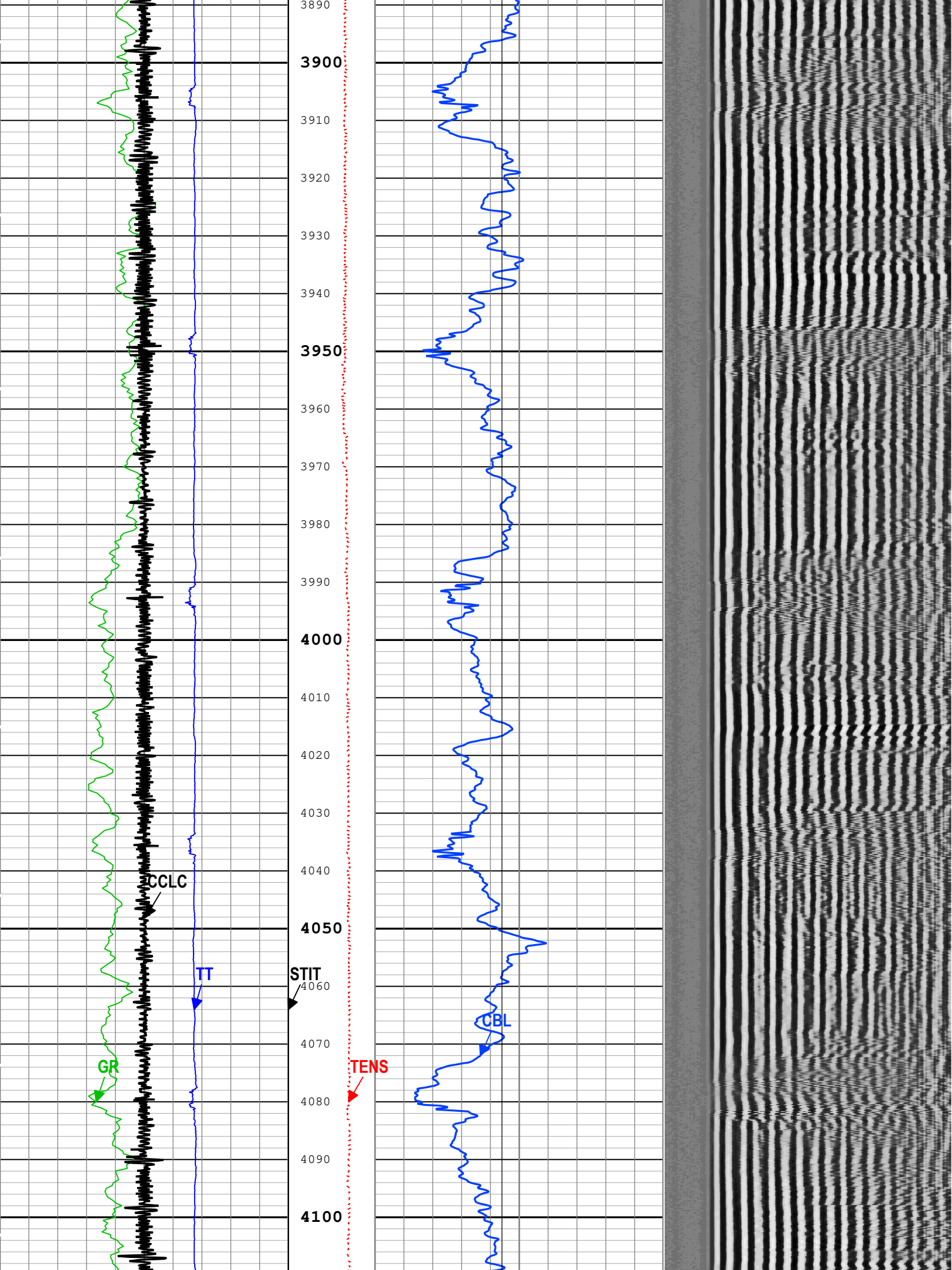


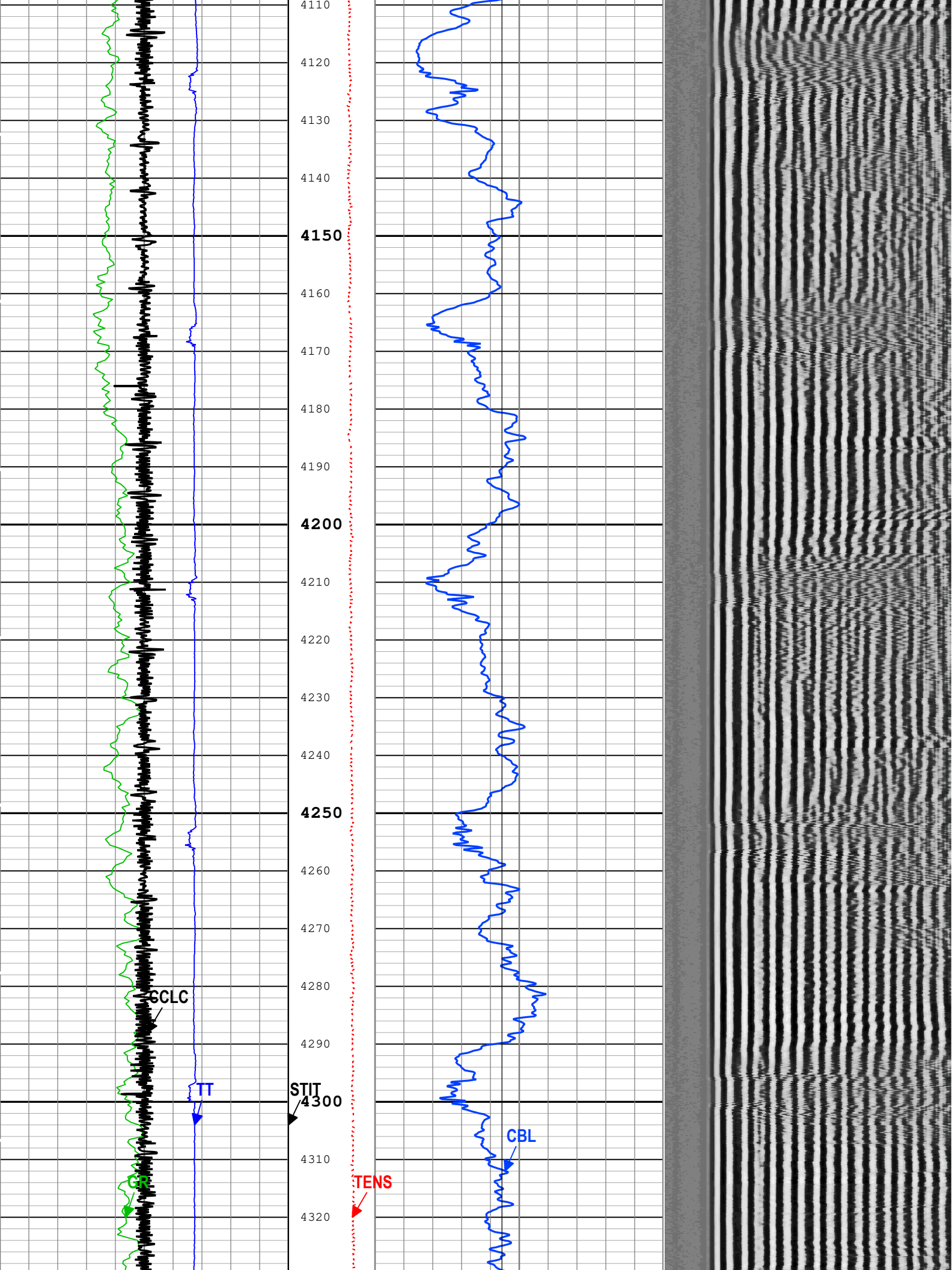




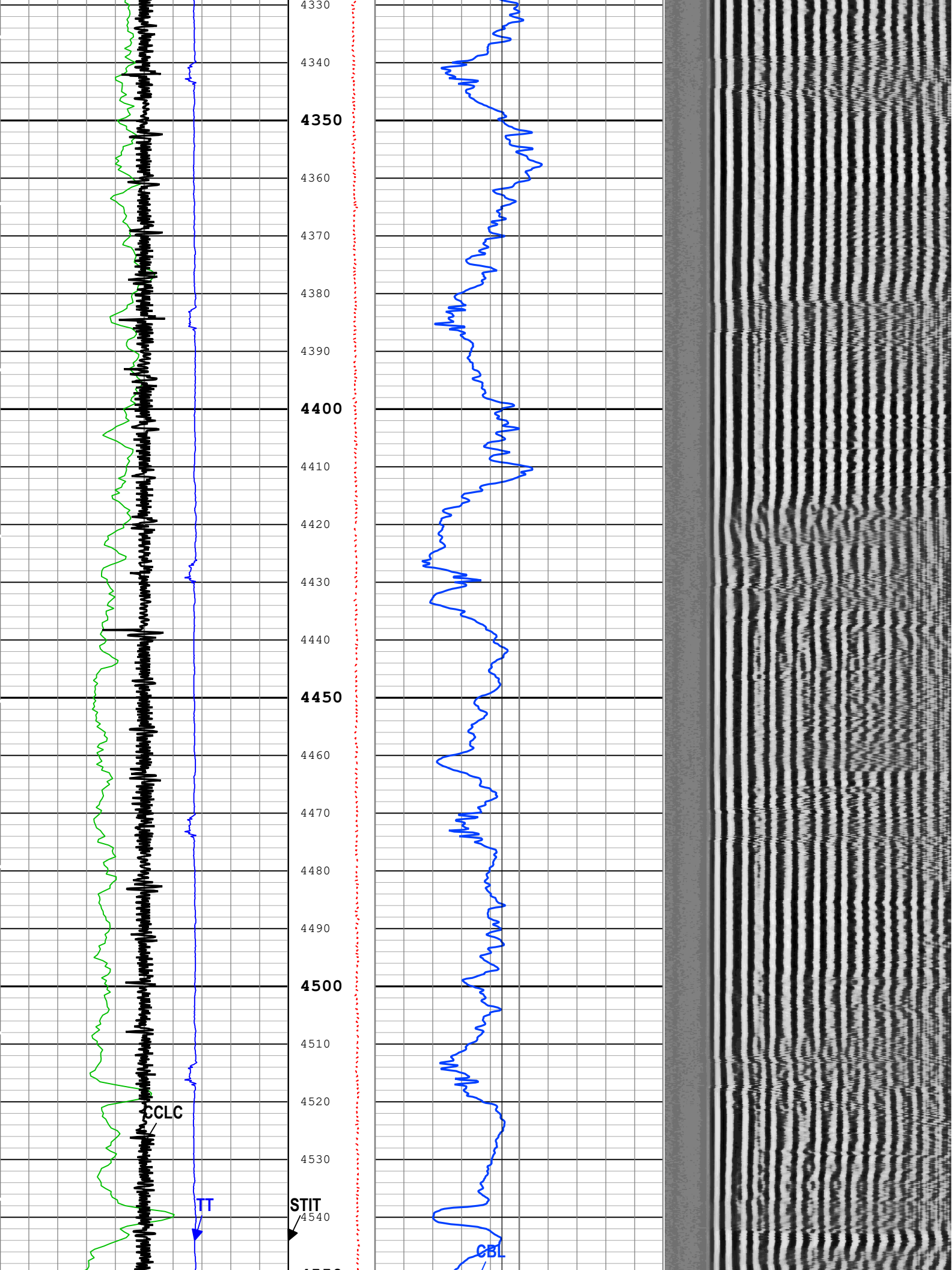


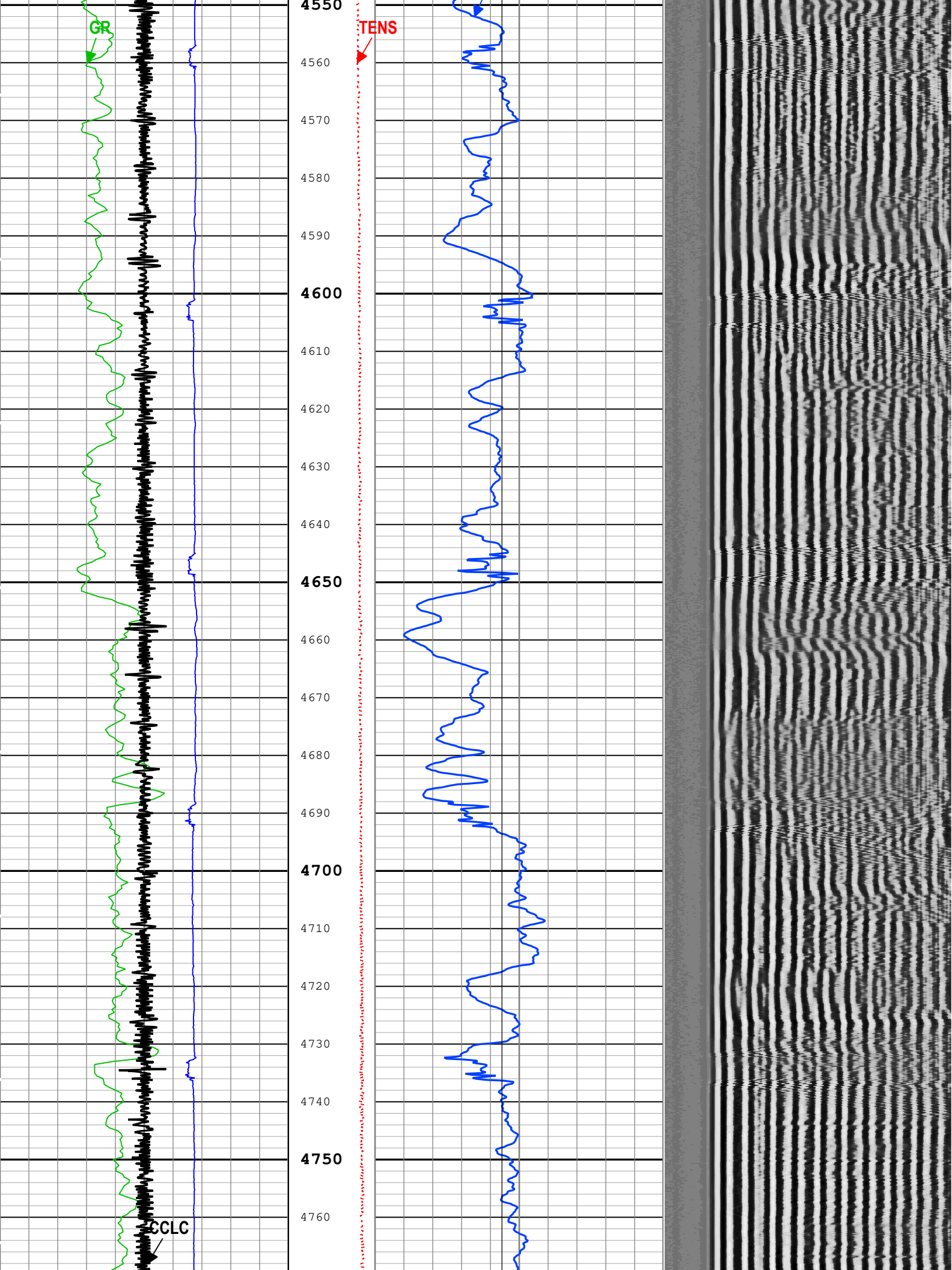




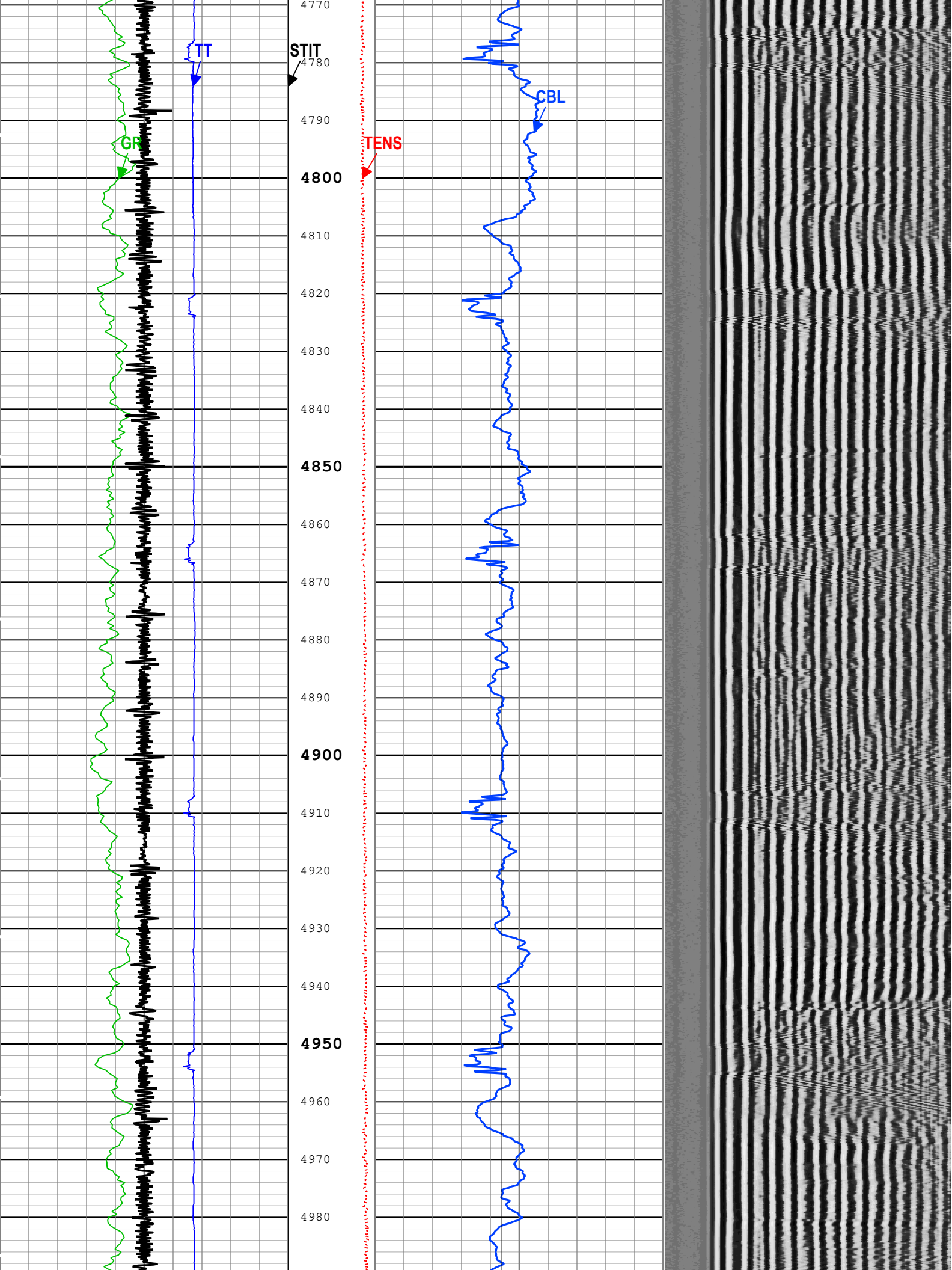


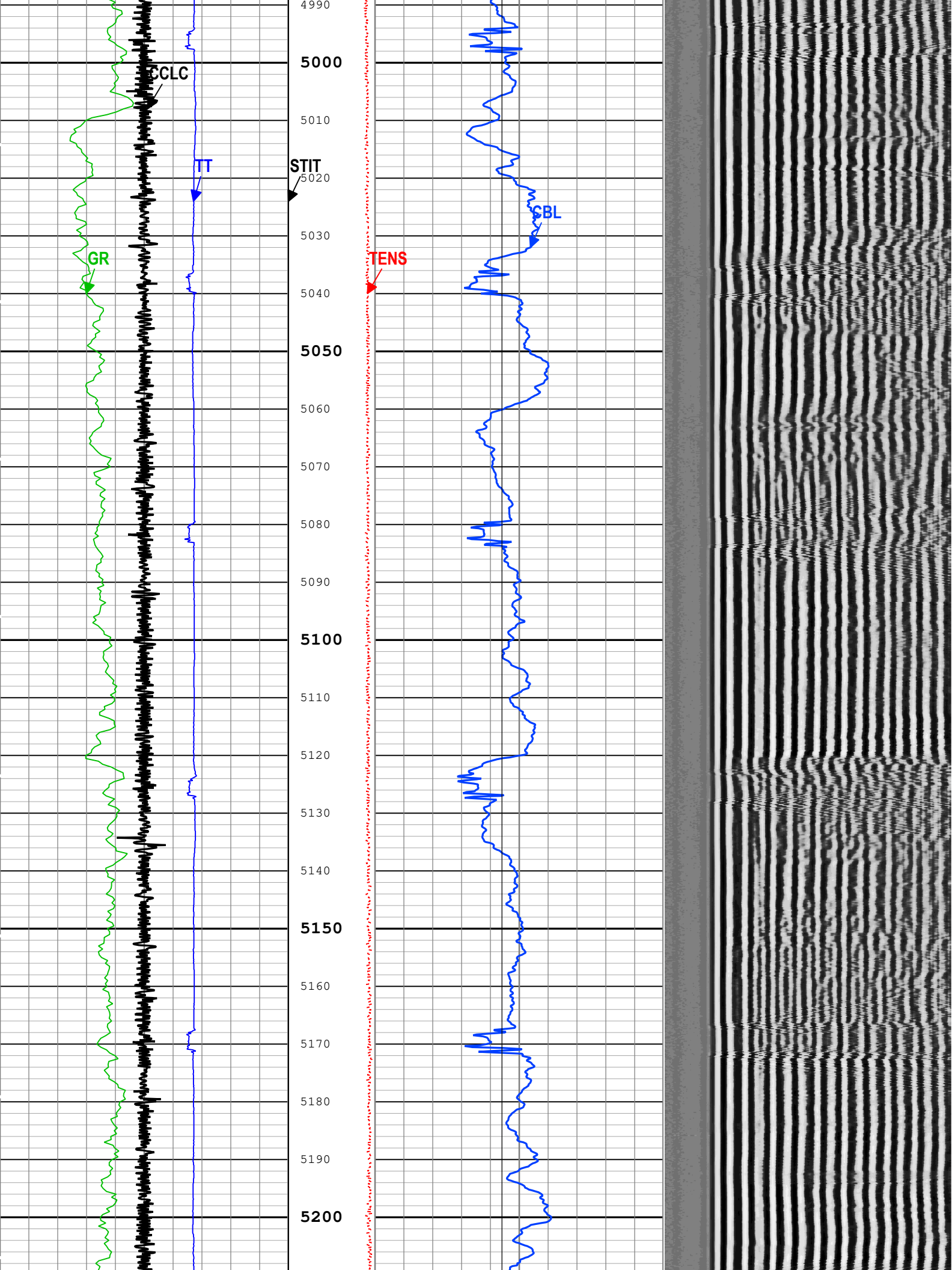




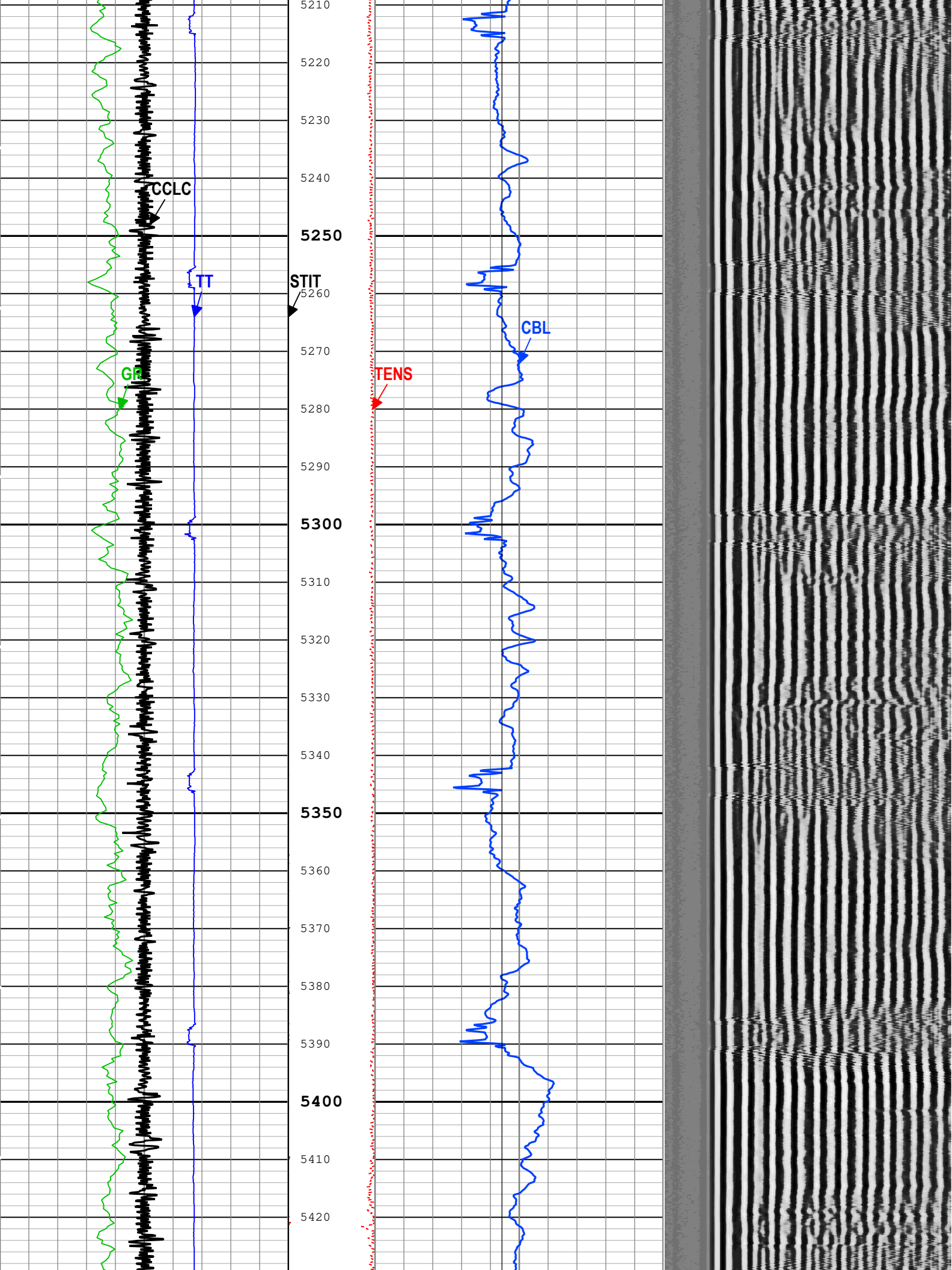


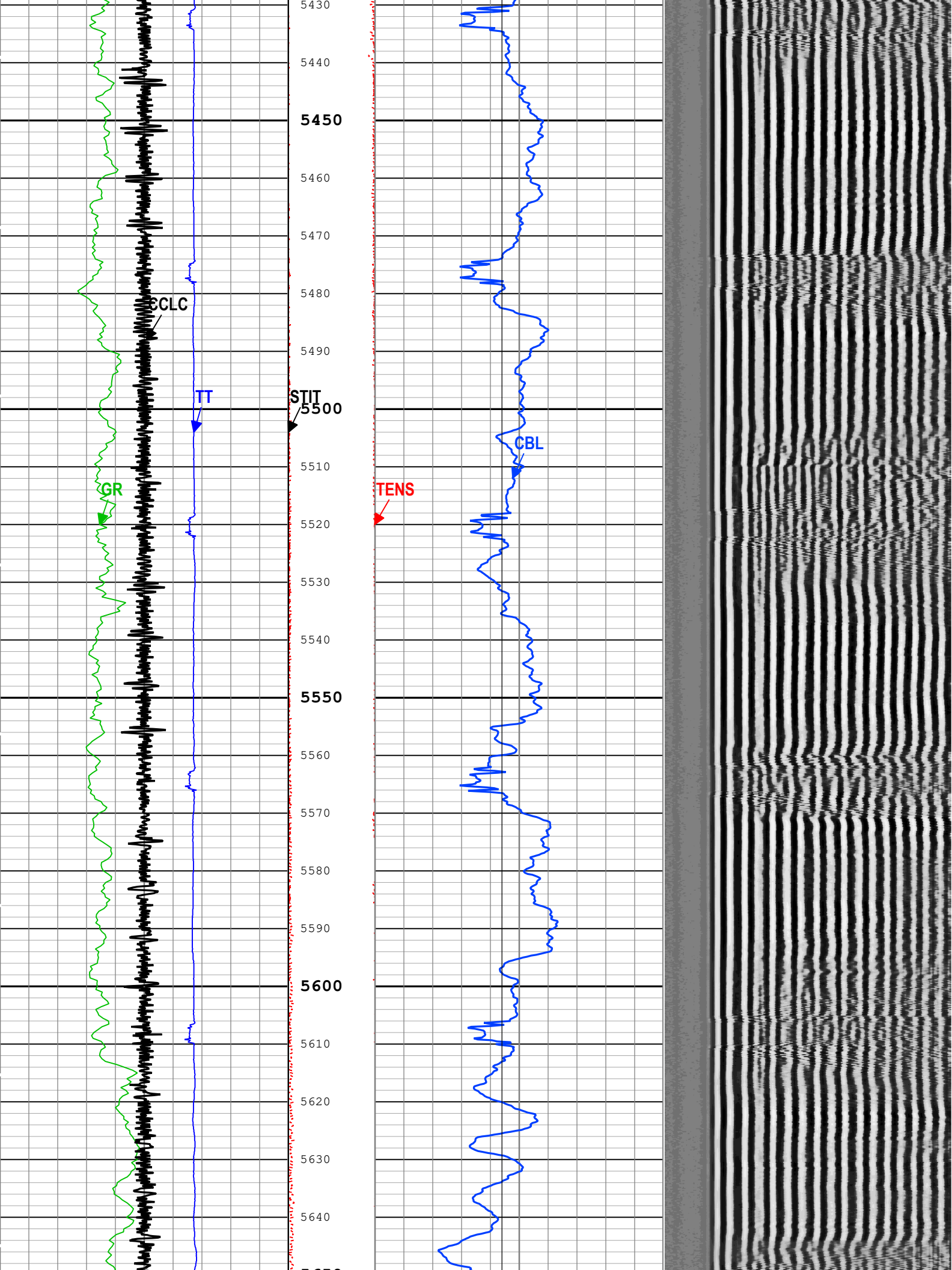


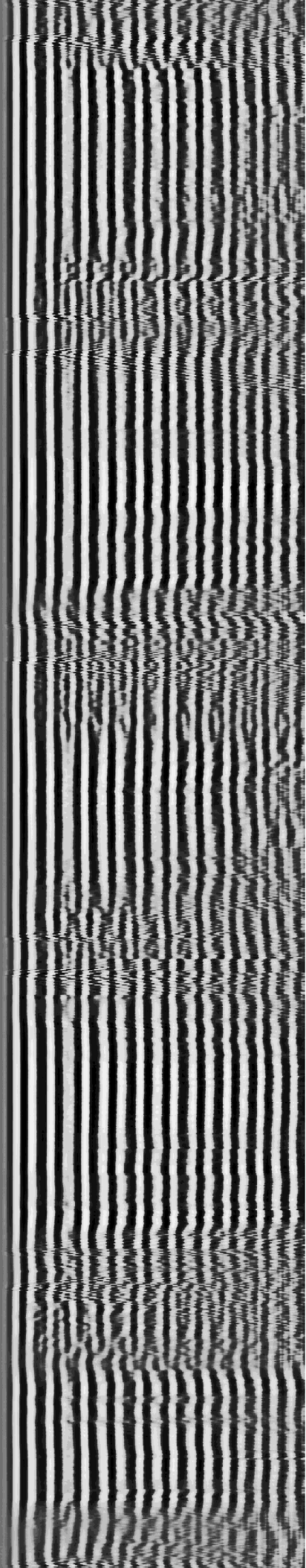
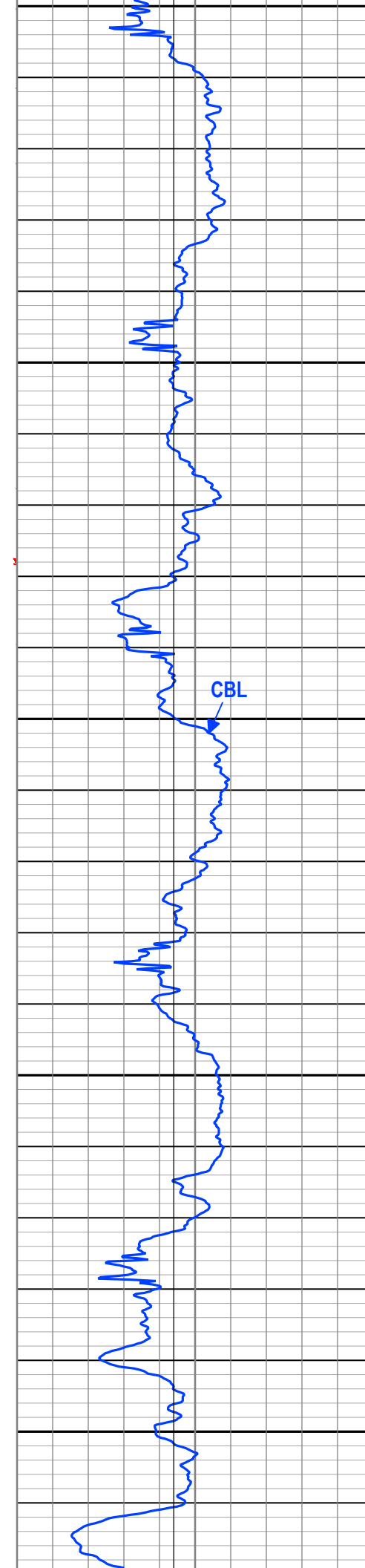
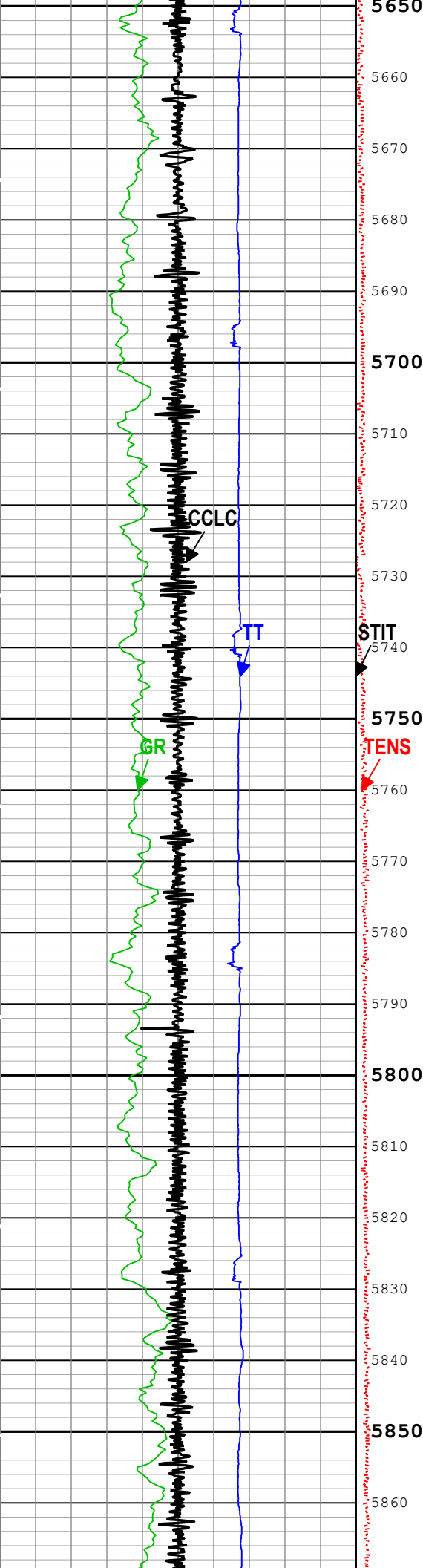




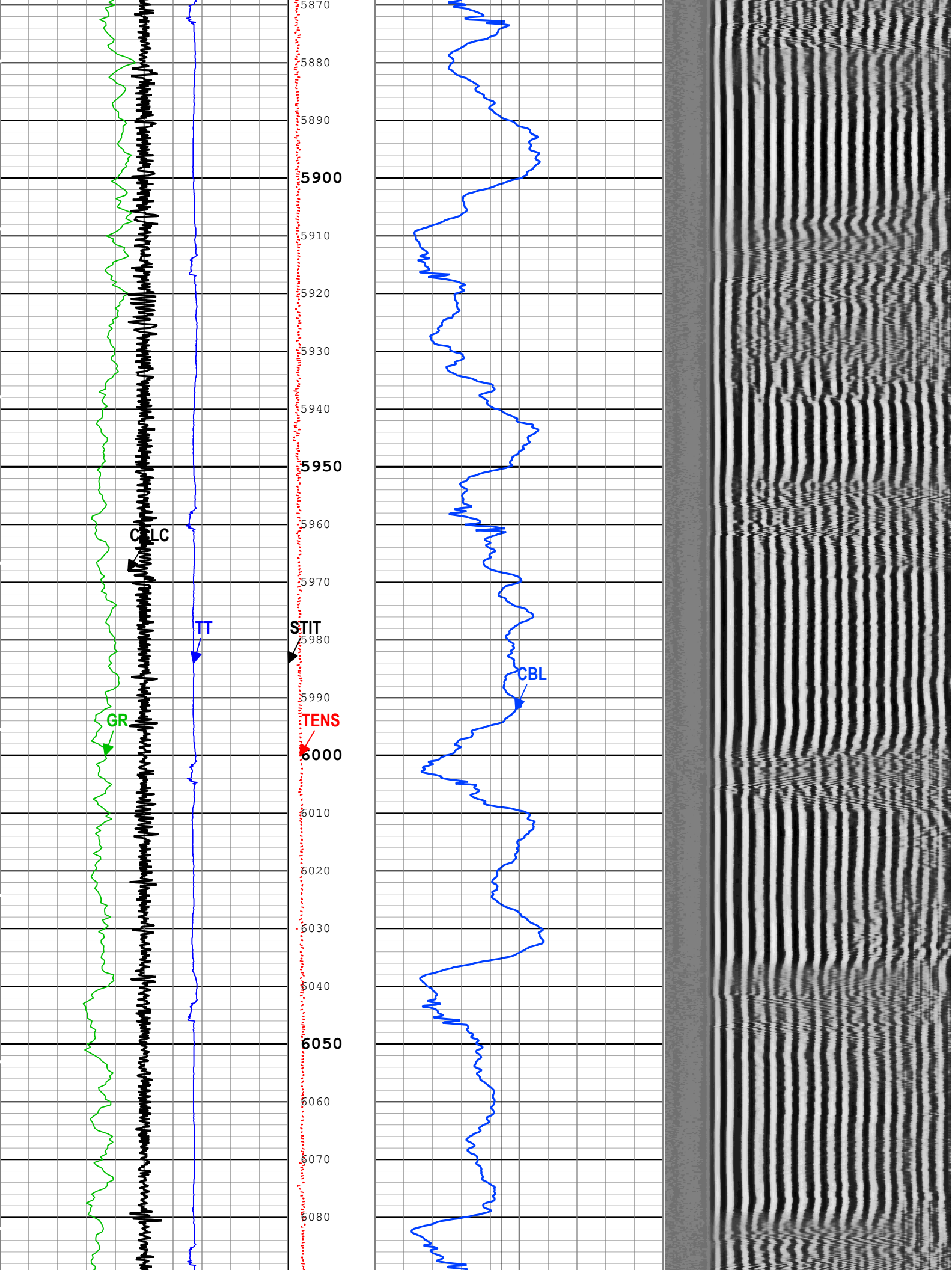


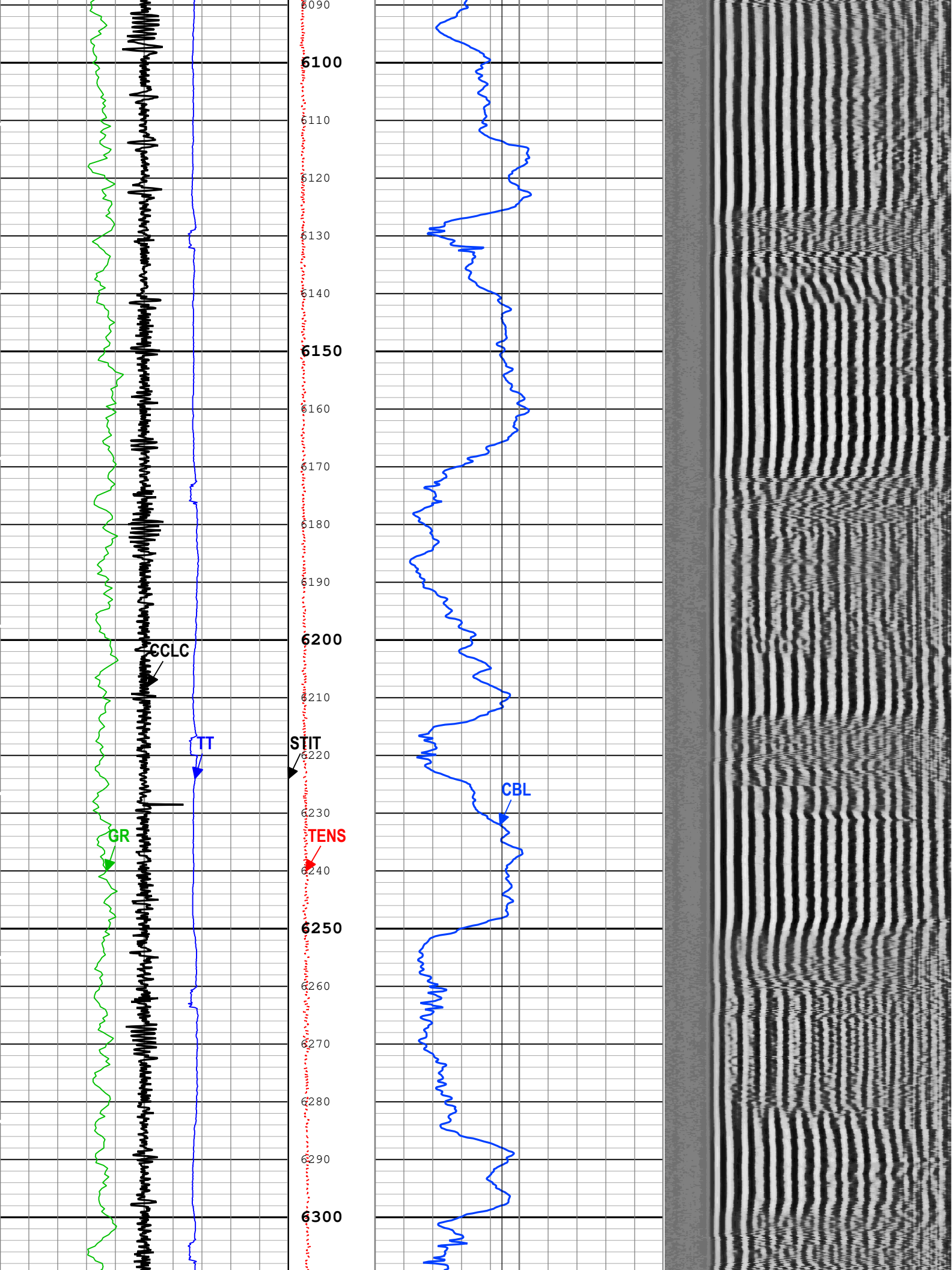


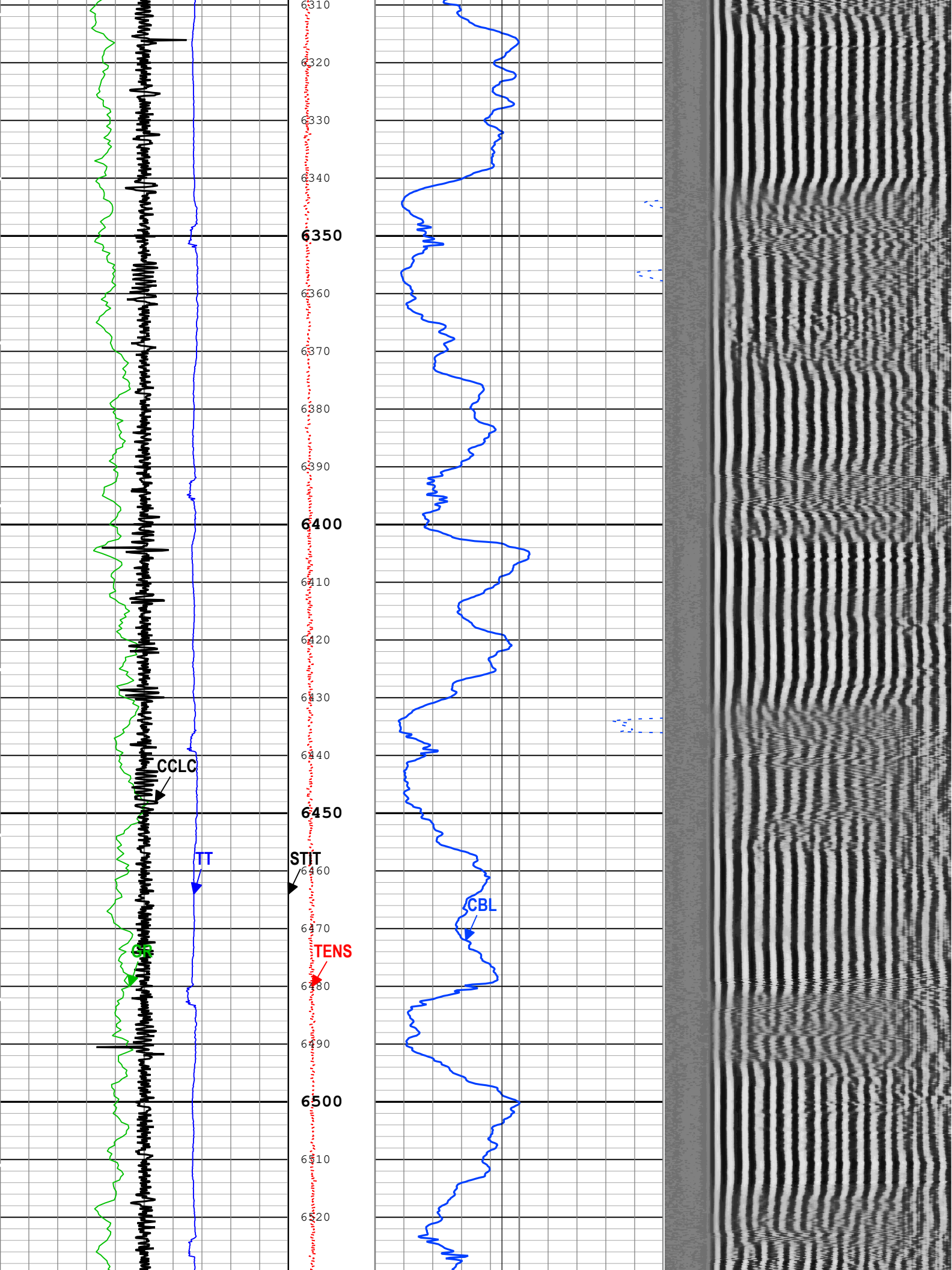




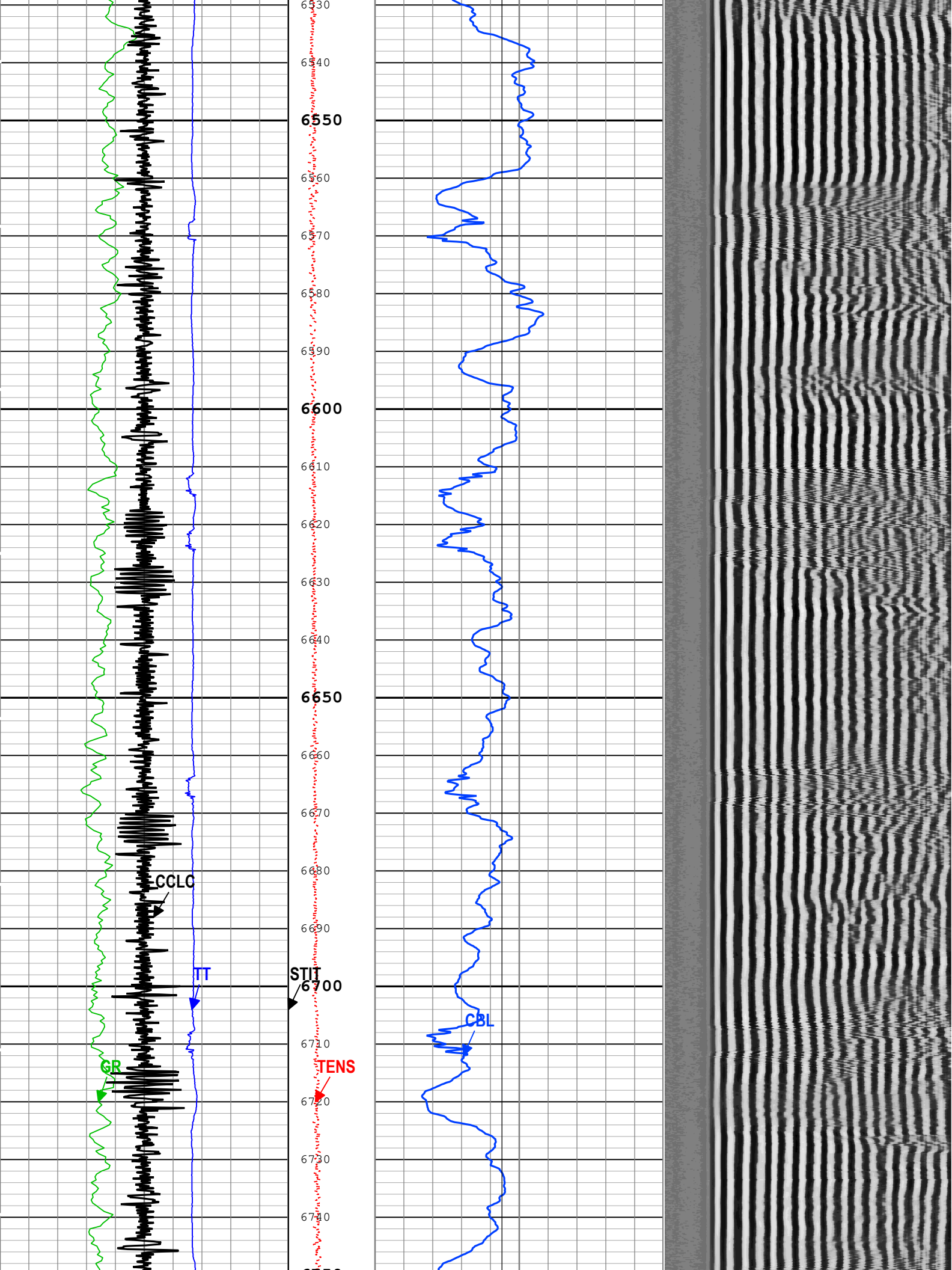


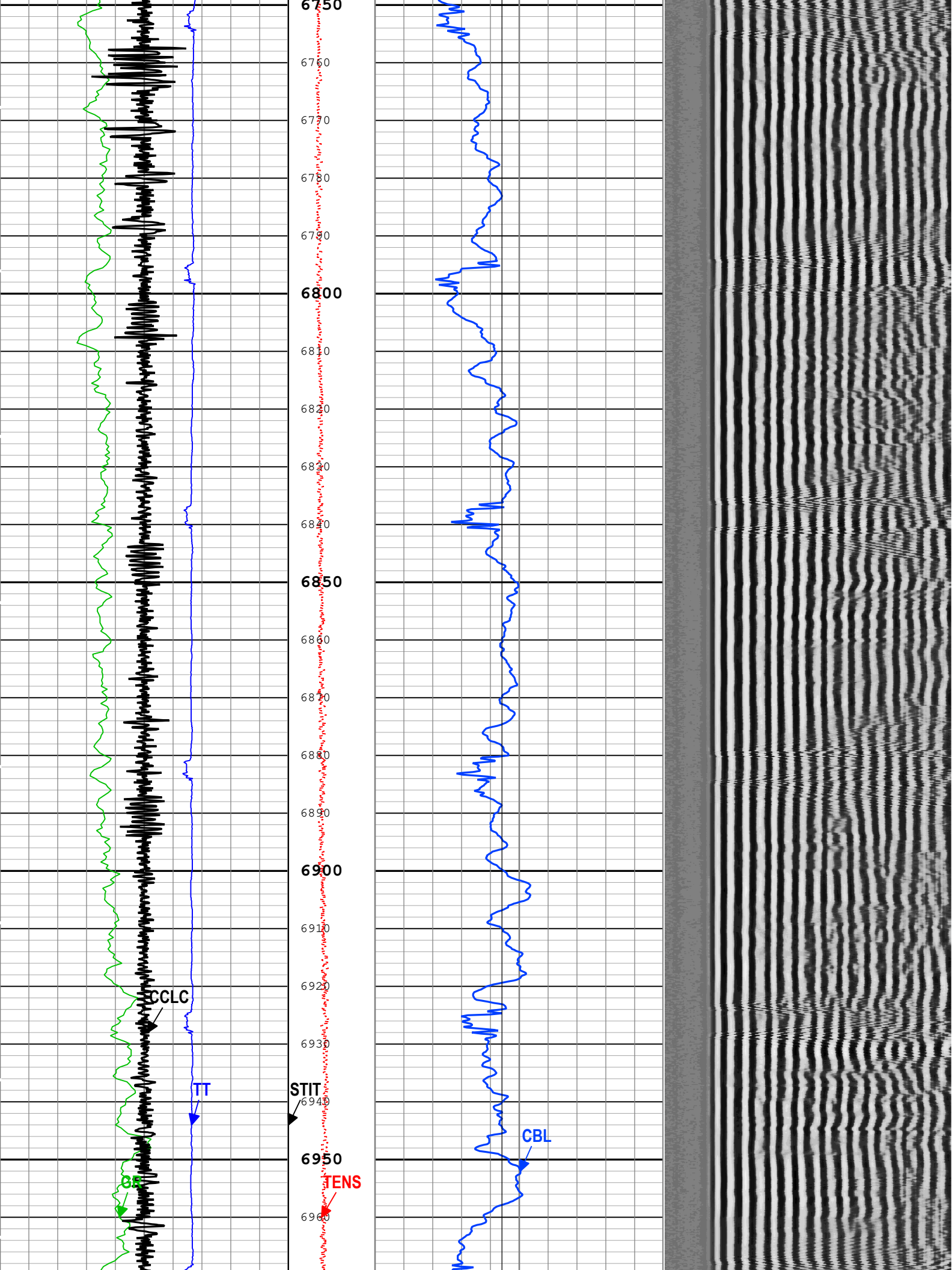




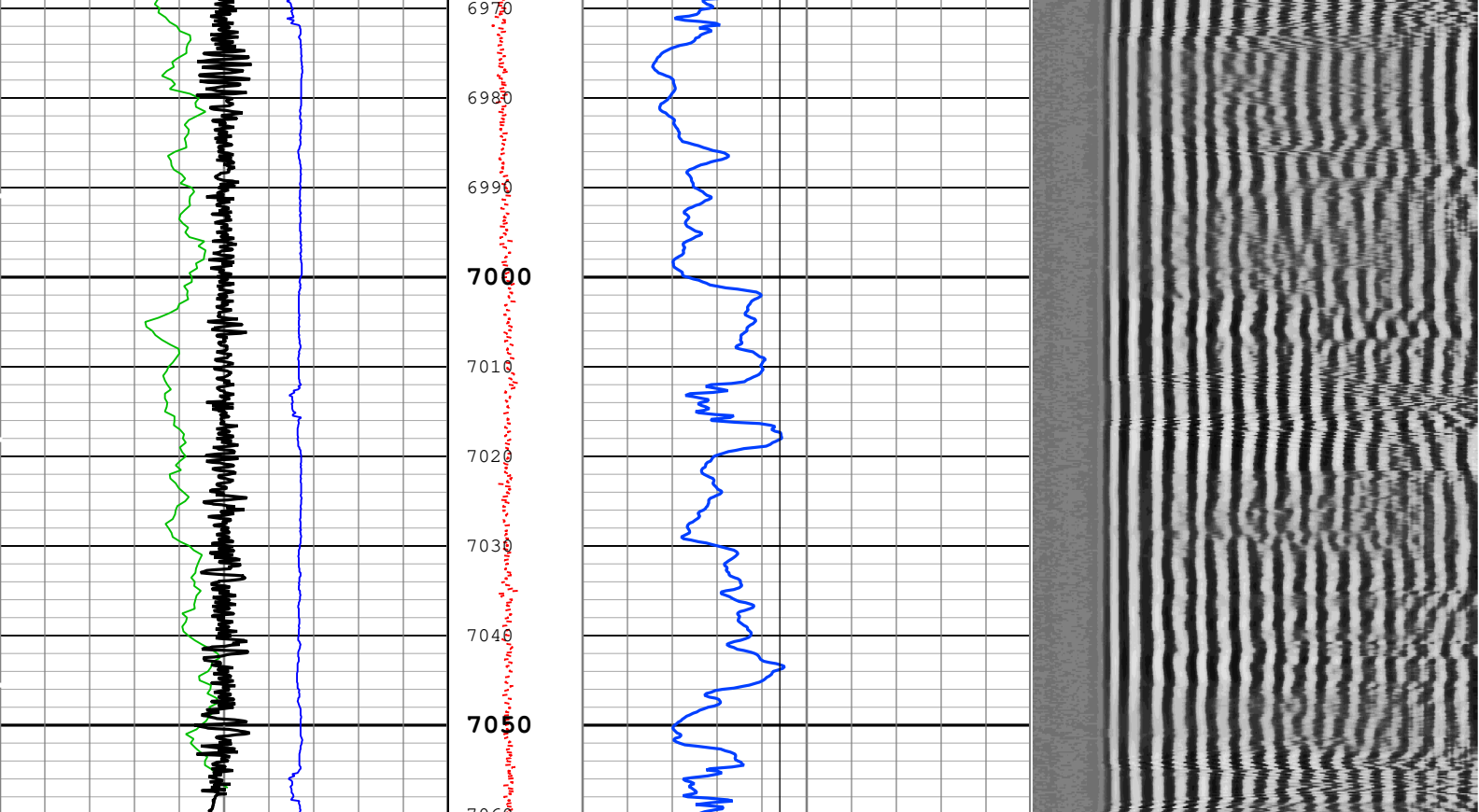












Gamma Ray (GR) PSTP-A	Cable Tension (TENS)	CBL Amplitude (CBL) SCMT-CB	Min	Amplitude	Max
0 gAPI 150	0 lbf 2000	0 mV 10			
Transit Time for CBL (TT) SCMT-CB	Stuck Tool Indicator, Total (STIT)	CBL Amplitude (CBL) SCMT-CB		VDL VariableDensity (VDL) SCMT-CB	
400 us 200	0 ft 50	0 mV 100	200	us	1200
CCL Computed Amplitude (CCLC) PSTP-A	Cable Drag	Good Bond (GOBO)			
-0.5 V 0.5	Tool_Tot. Drag	0 mV 10			
		GoodBond From CBL to GOBO			

■ BIEP - Bond Index Event Pips SCMT-CB

TIME\_1900 - Time Marked every 60.00 (s)

Description: Sonic CBL with VDL Format: Log ( Sonic CBL with VDL ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 22-May-2019 09:26:01

## Channel Processing Parameters

### Two: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	165.55	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	237.94	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	72	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	4.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	11.95	dB/ft

MAX_T_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	11.83	dB/m
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	2.19	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	2.19	mV
RUN_SNUM	Run Sequence Number	WSDRUN	2	

Depth Zone Parameters				
Parameter	Value	Start ( ft )	Stop ( ft )	
MCI	14.81	70	2339	
MCI	4.75	2339	7060	
All depth are actual.				

Tool Control Parameters				
Two: Parameters				
Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	12 dB	

Two				
Main Pass				

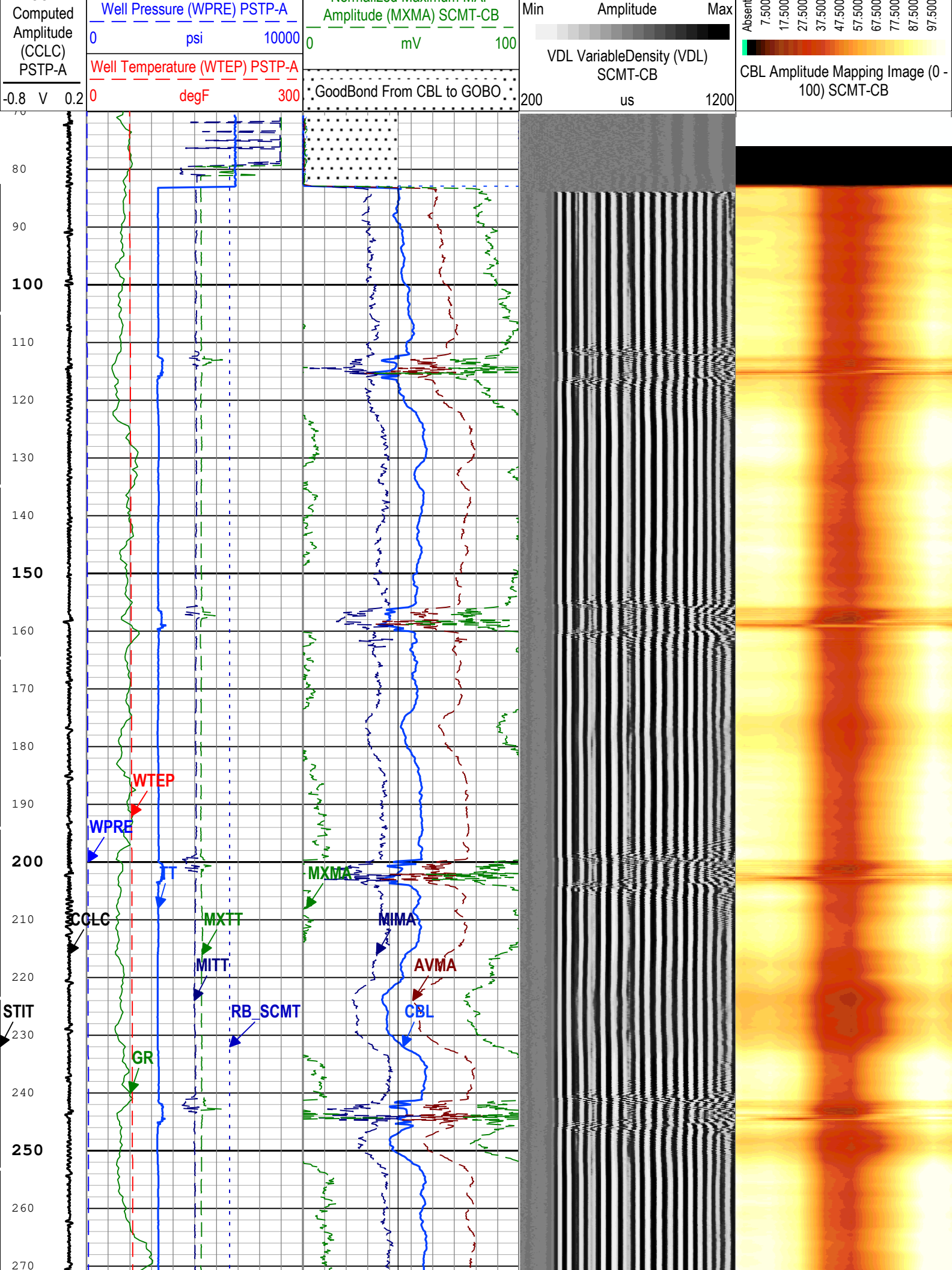
Software Version				
Acquisition System			Version	
Maxwell 2019			9.0.106845.3100	

Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Two	Log[4]:Up	Up	82.38 ft	7081.67 ft	21-May-2019 1:45:09 PM	21-May-2019 5:49:45 PM	ON	1.88 ft	No

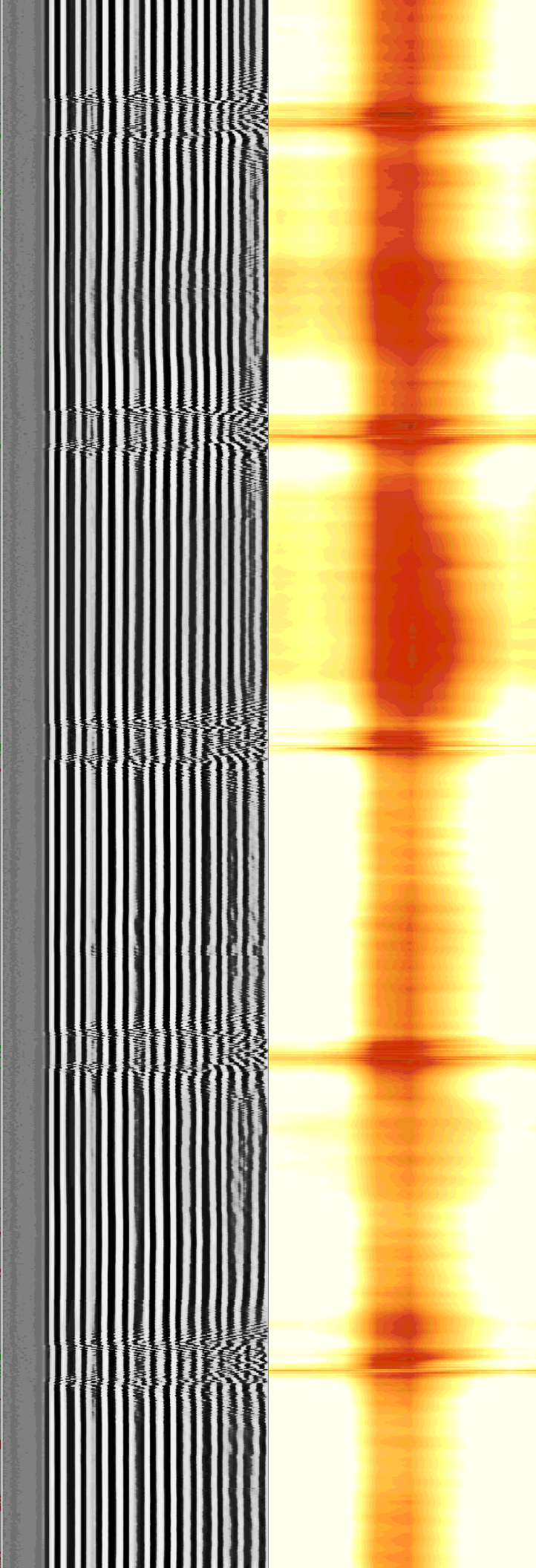
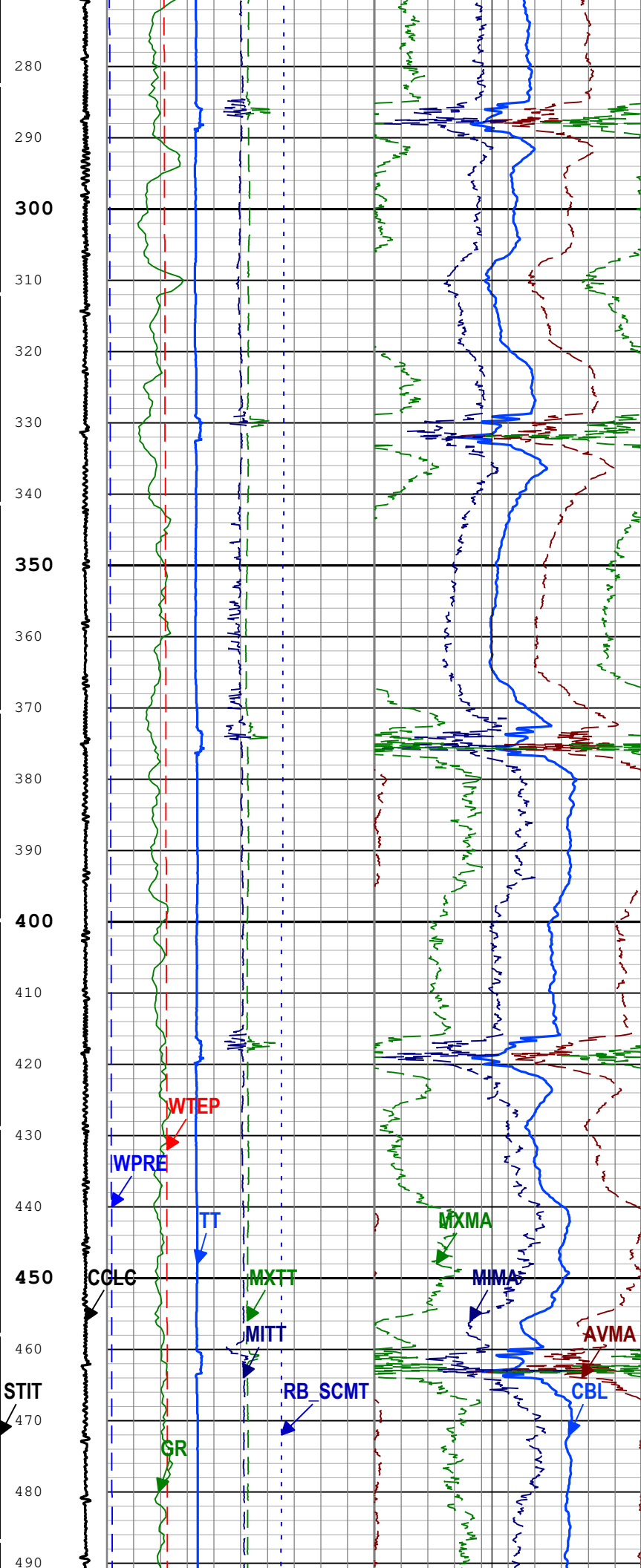
All depths are referenced to toolstring zero									
Log	Company:Crestone Peak Resources and Operating LLC						Well:Echeverria 2I-2H-D267		
	Two: Log[4]:Up:S011								

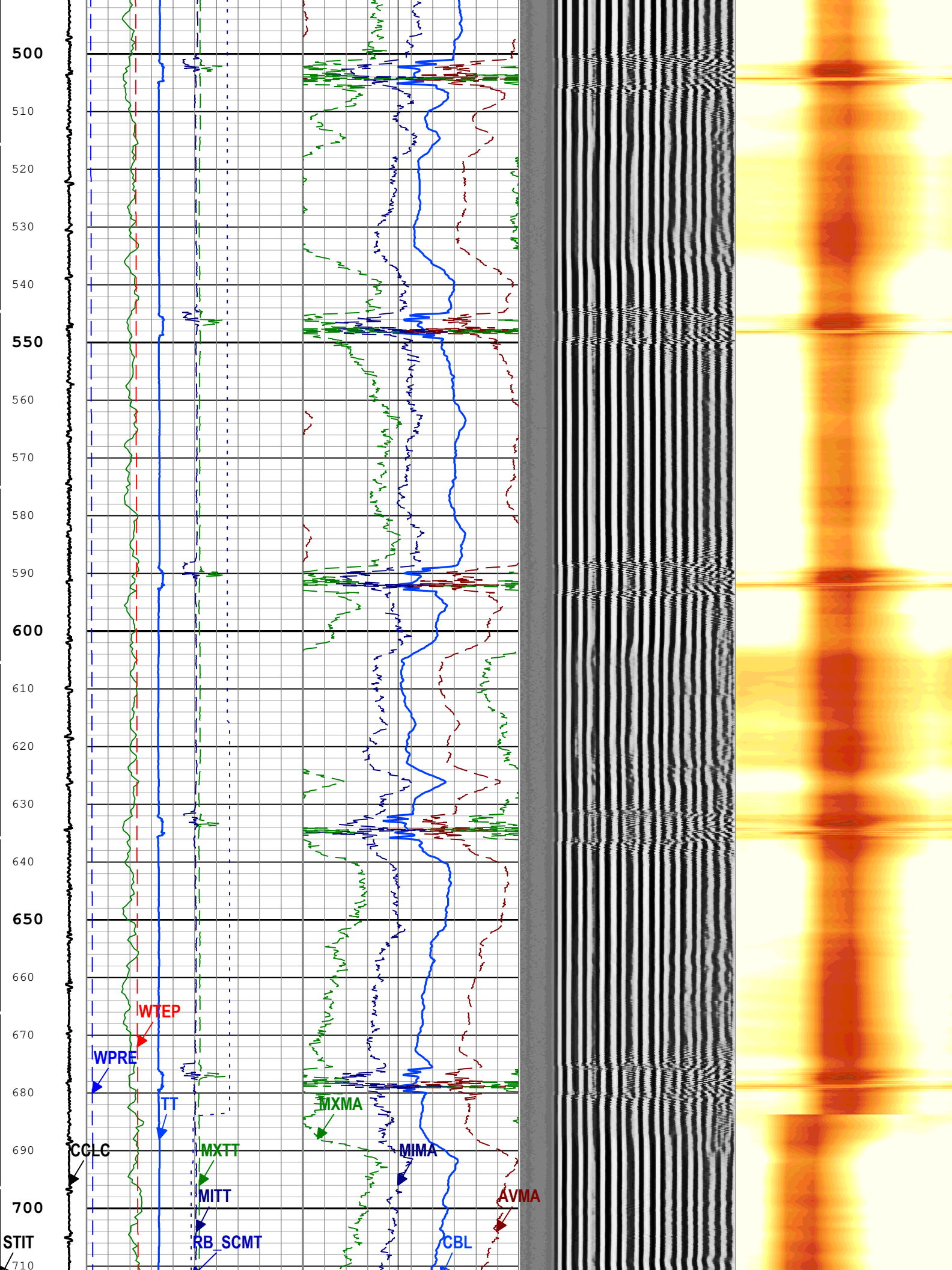
Description: SCMT VDL Image    Format: Log ( SCMT\_VDL\_Image )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 22-May-2019 09:26:11

TIME_1900 - Time Marked every 60.00 (s)									
		Gamma Ray (GR) PSTP-A							
		0	gAPI	150					
		Relative Bearing (RB_SCMT) SCMT-CB			CBL Amplitude (CBL) SCMT-CB				
		0	deg	360	mV				
		Minimum MAP Transit Time (MITT) SCMT-CB			CBL Amplitude (CBL) SCMT-CB				
		0			mV				
		Good Bond (GOBO)							
Stuck Tool Indicator, Total (STIT)		100	us	300	mV				
		Maximum MAP Transit Time (MXTT) SCMT-CB			Normalized Average MAP Amplitude (AVMA) SCMT-CB				
0 ft 50		100	us	300	mV				
Cable Drag					Normalized Minimum MAP Amplitude (MIMA) SCMT-CB				
		Transit Time for CBL (TT) SCMT-CB							
Tool_Tot. Drag		200	us	400	mV				
CCL					Normalized Maximum MAP				

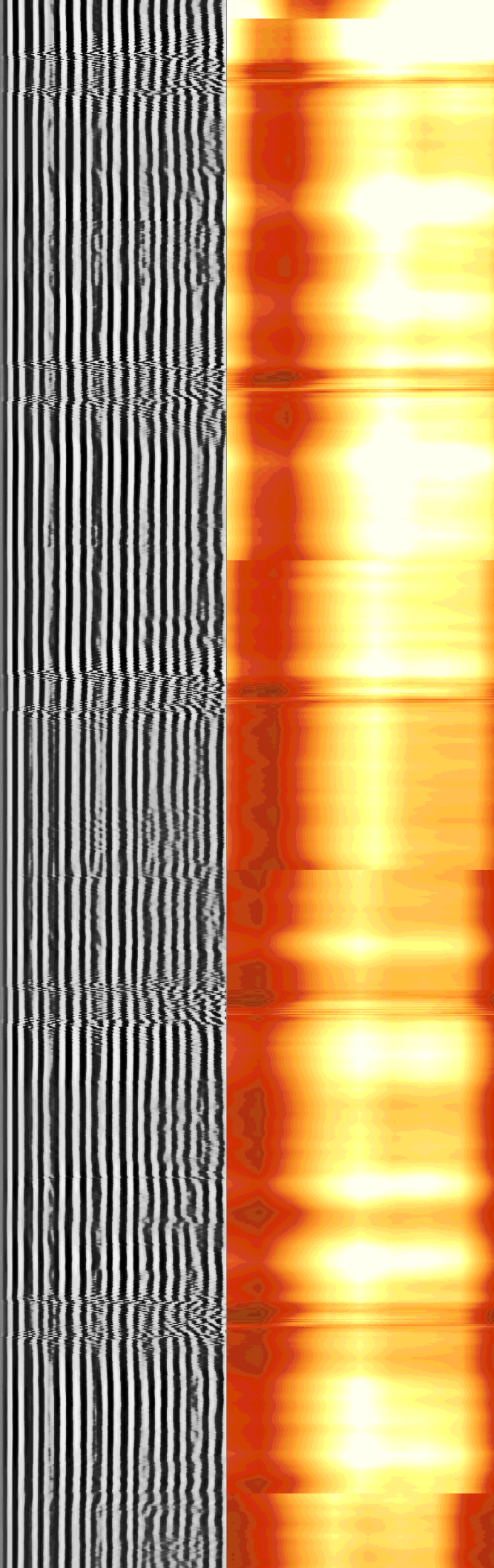
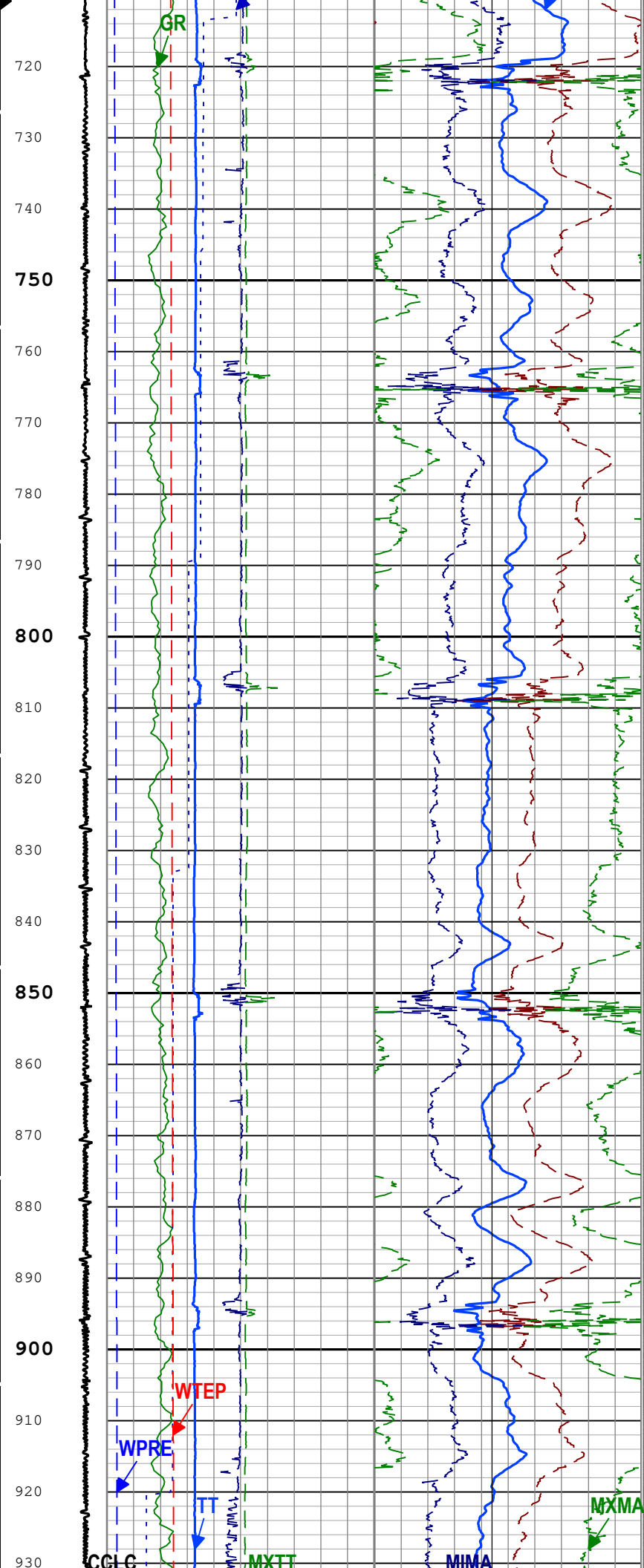




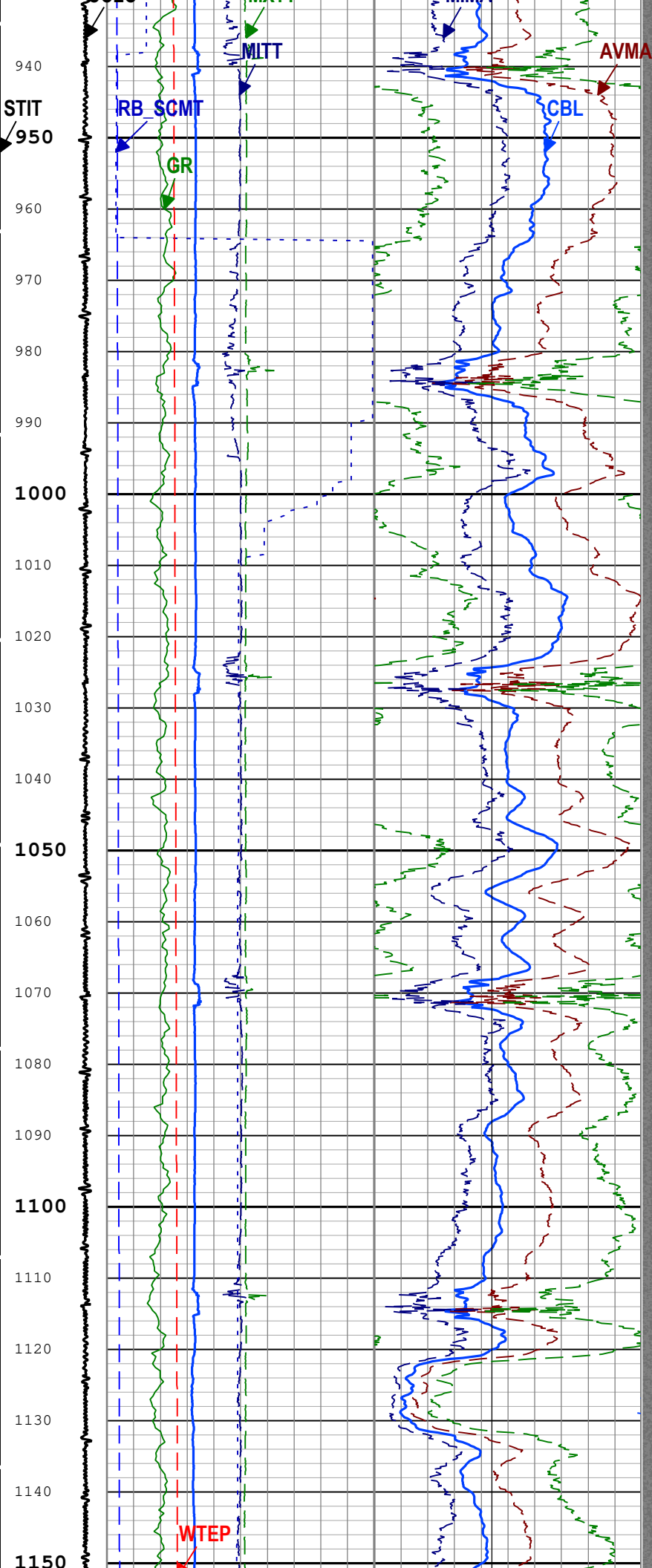


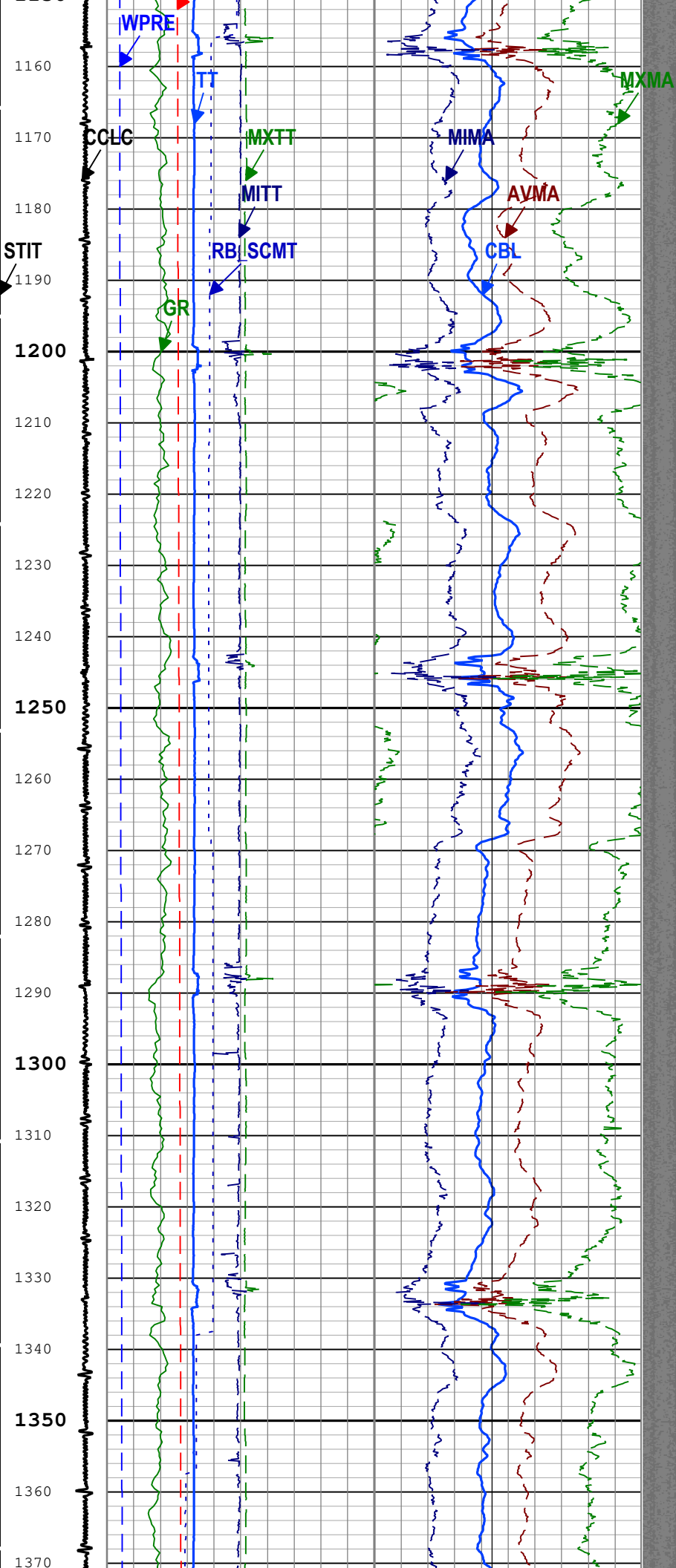




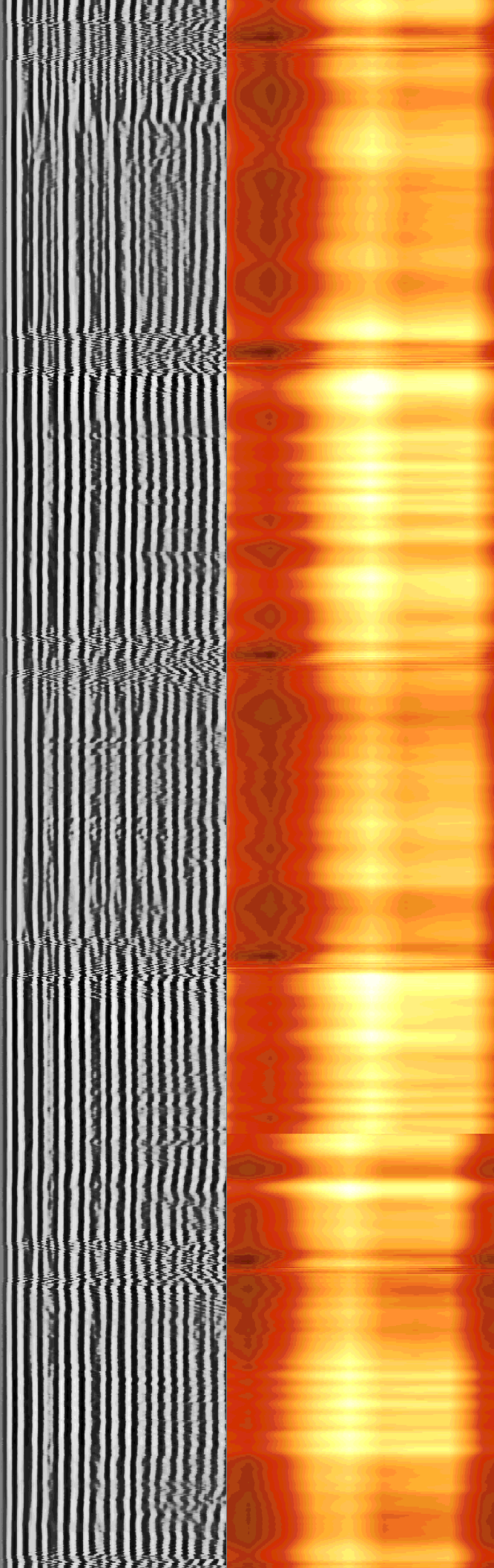
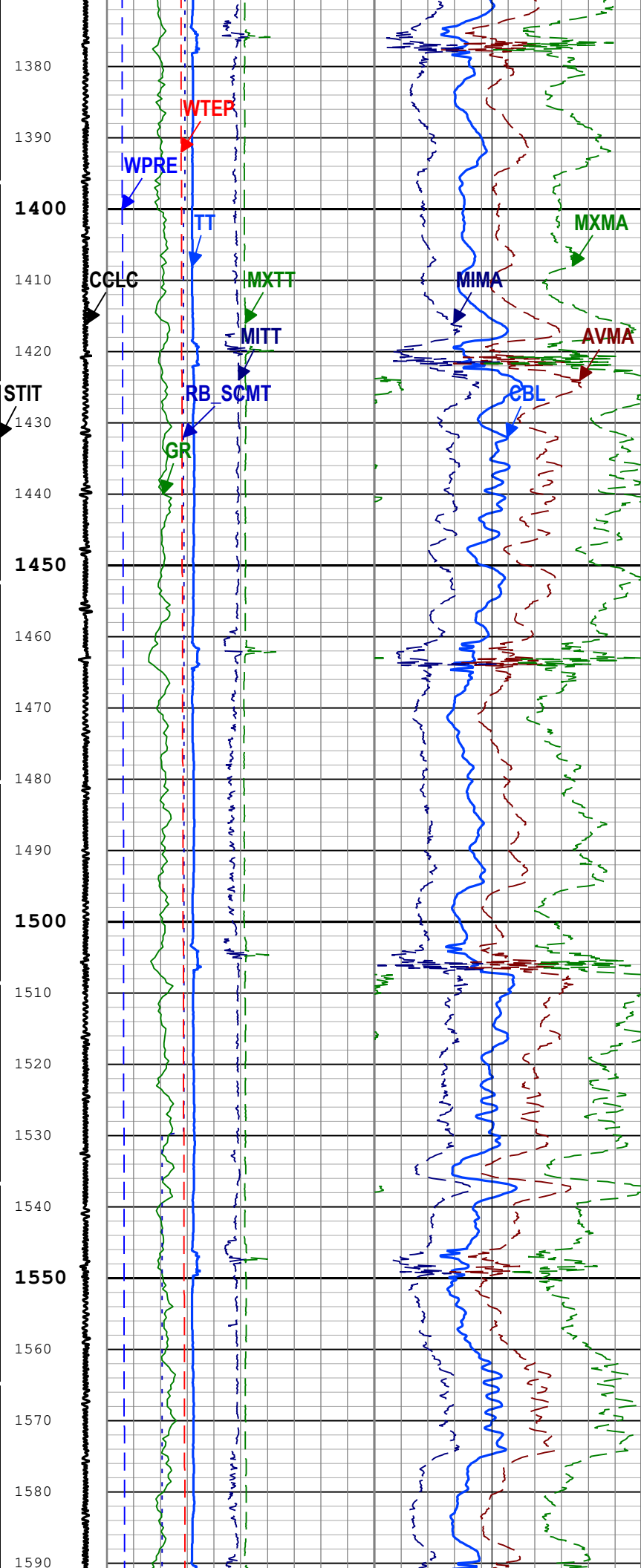




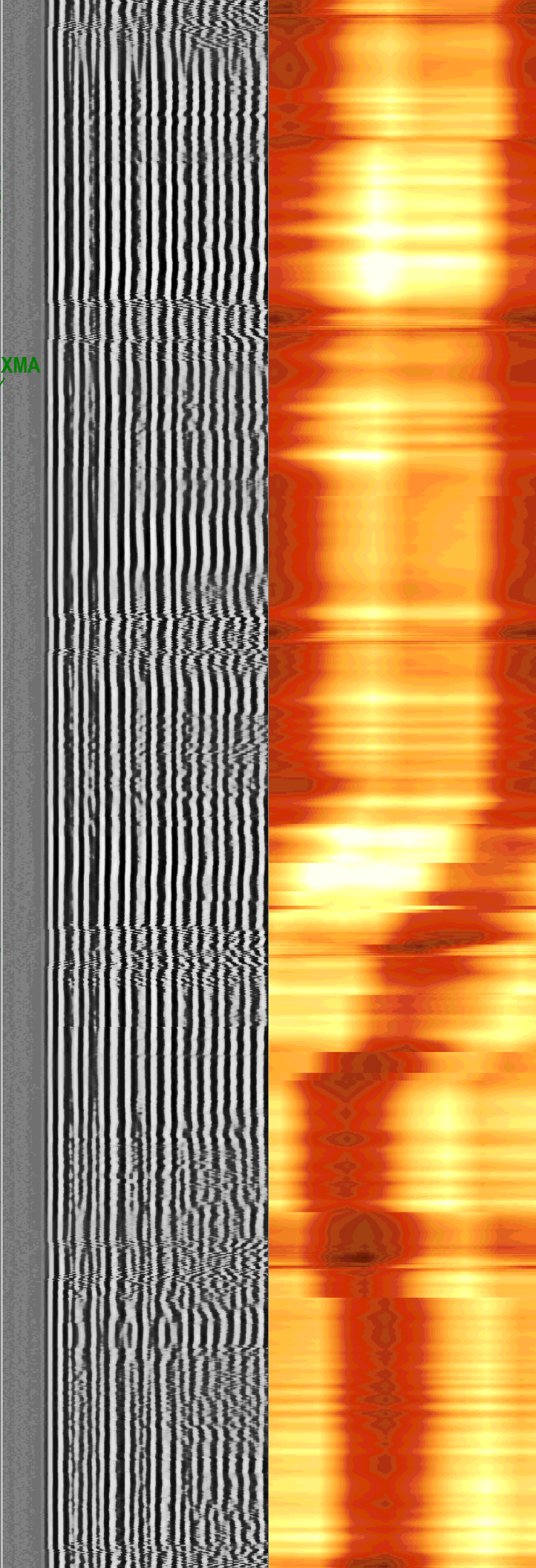
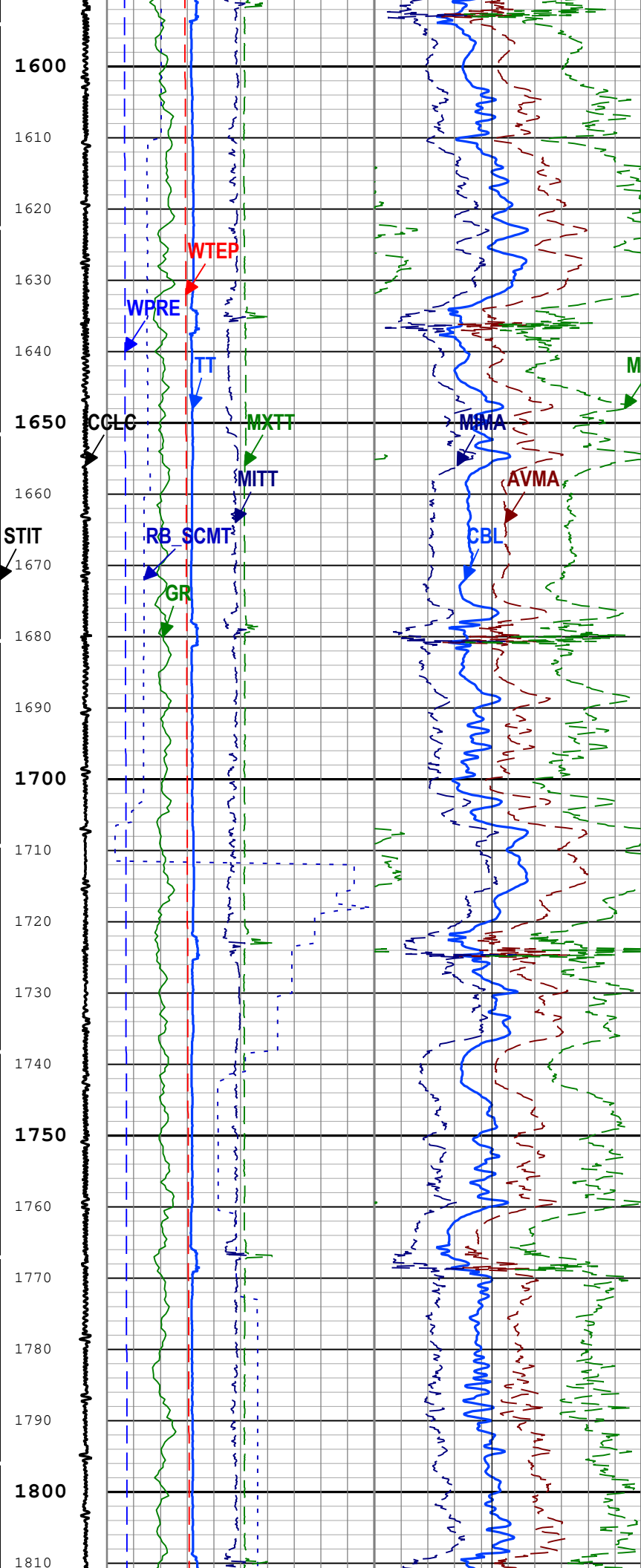


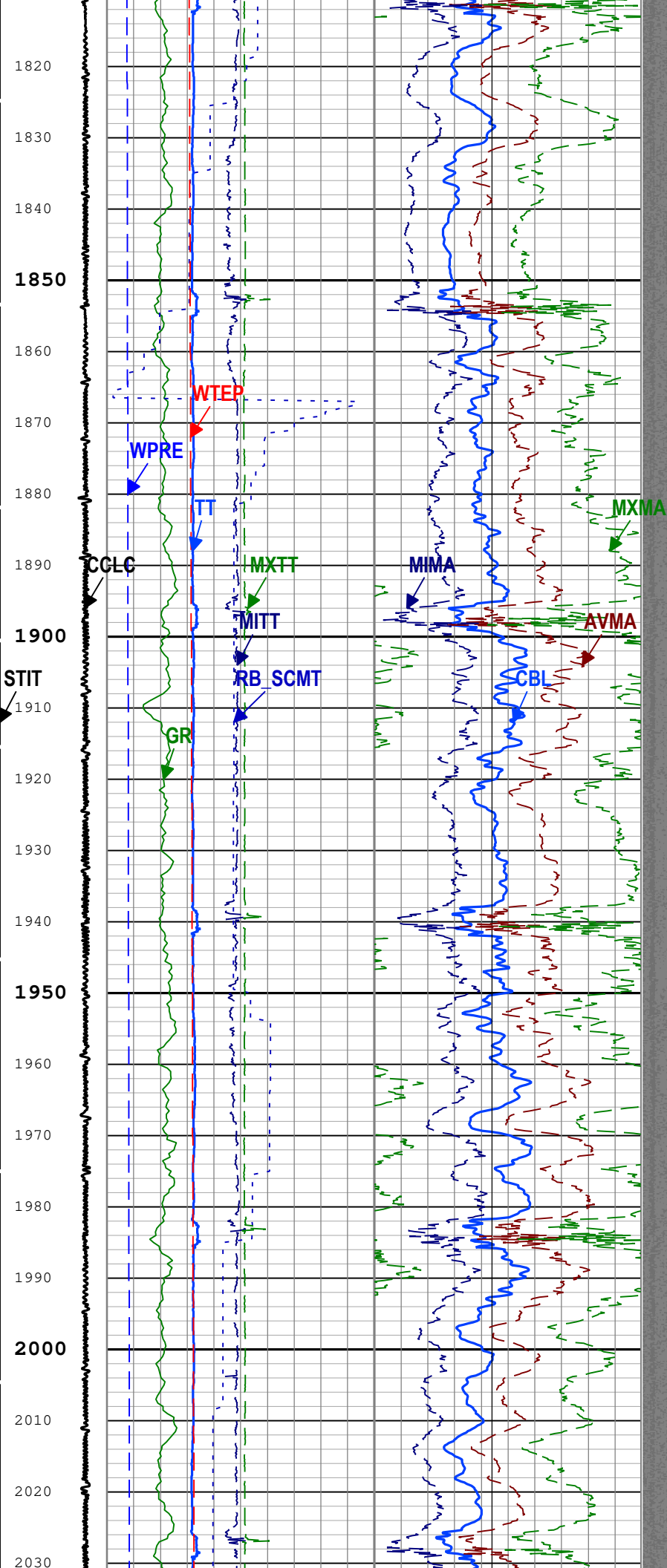




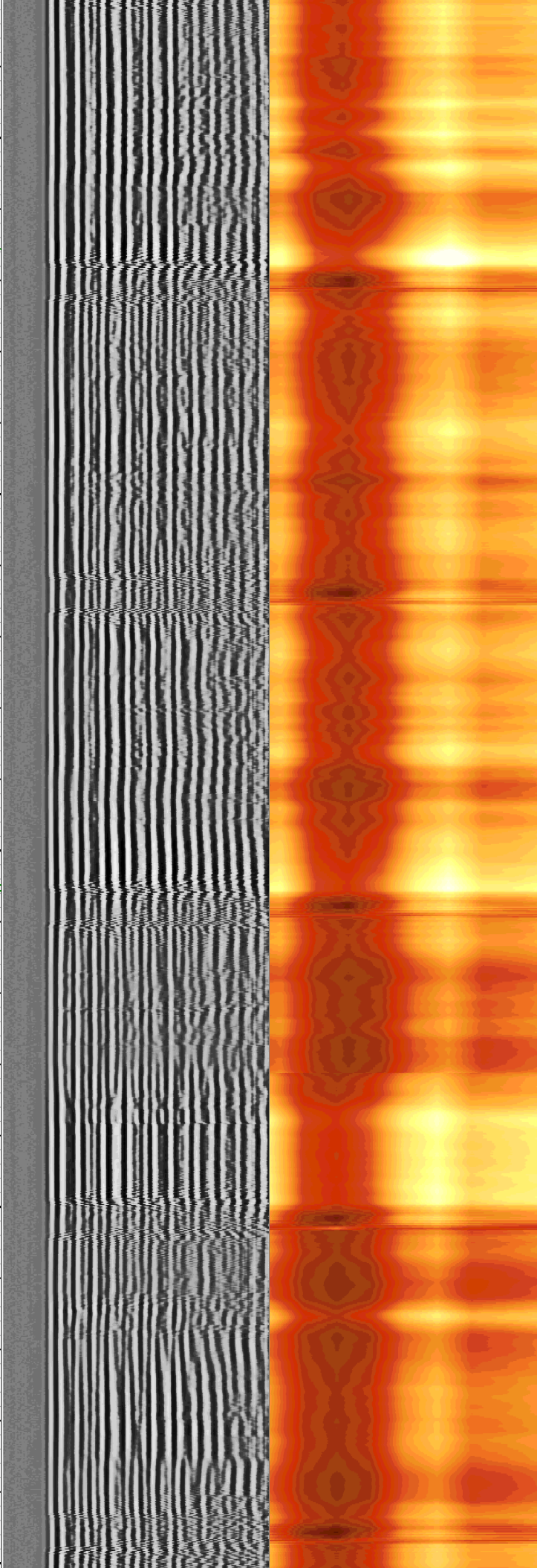
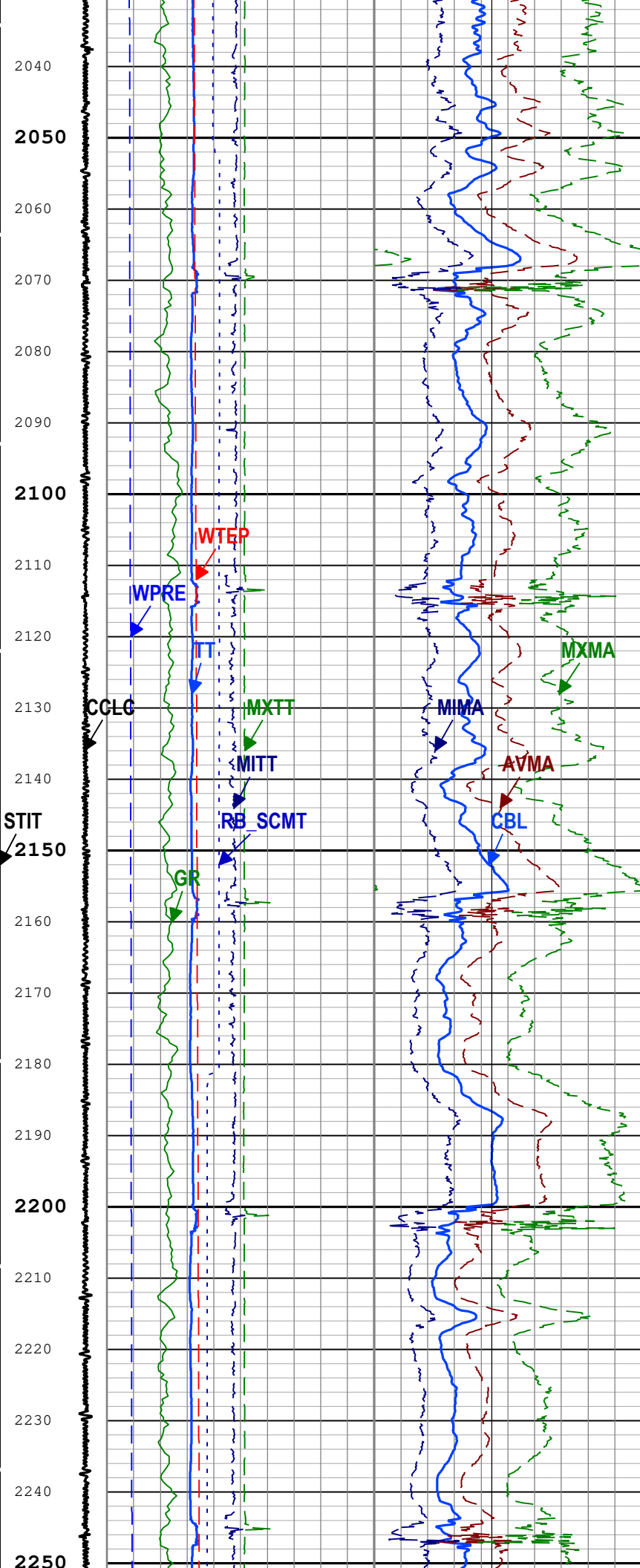




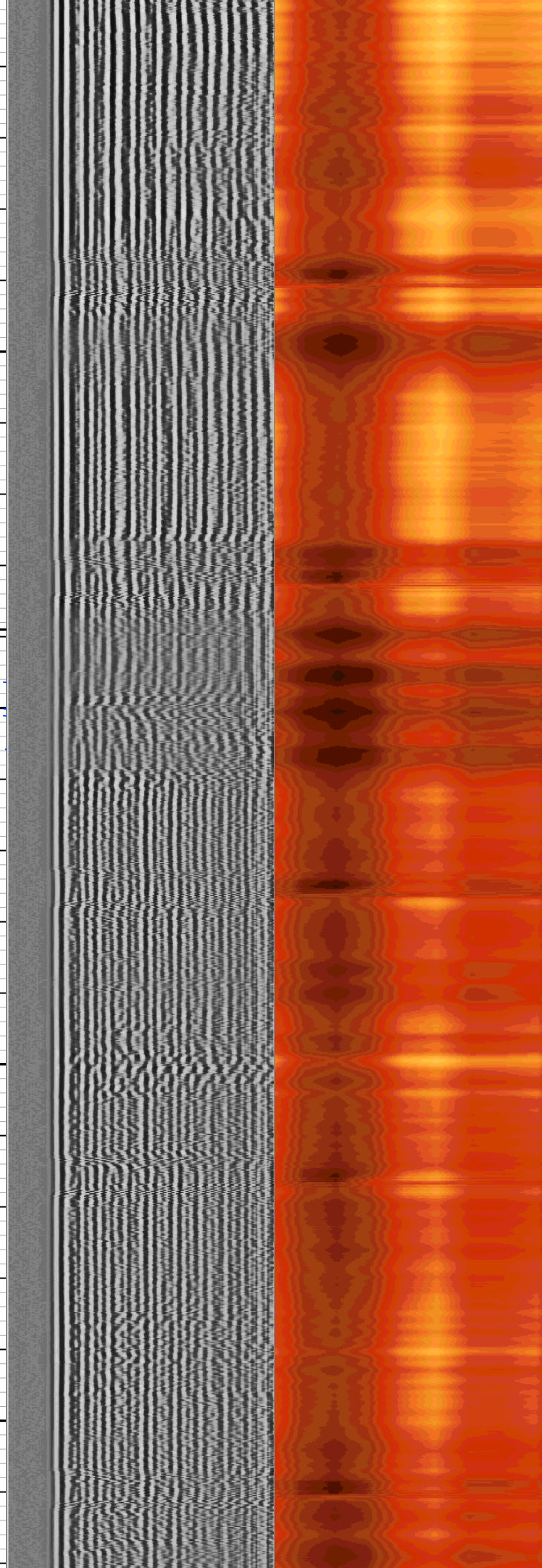
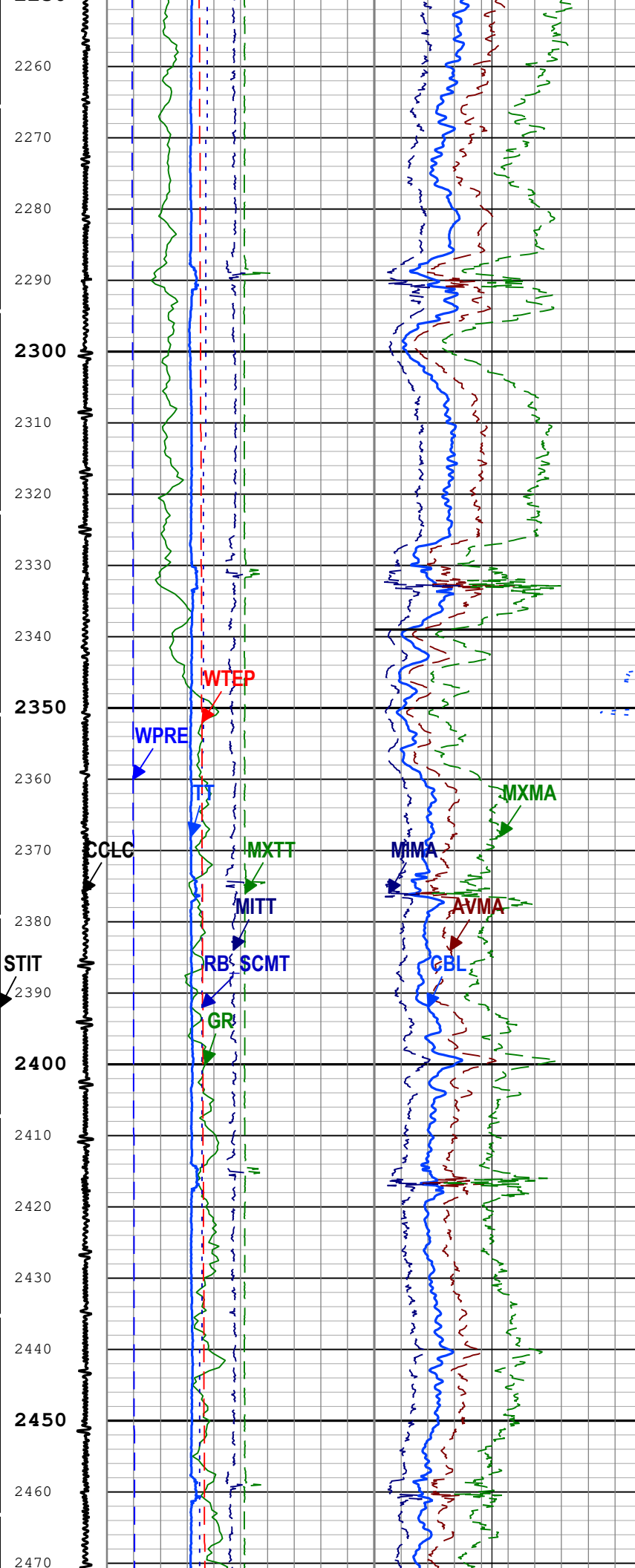


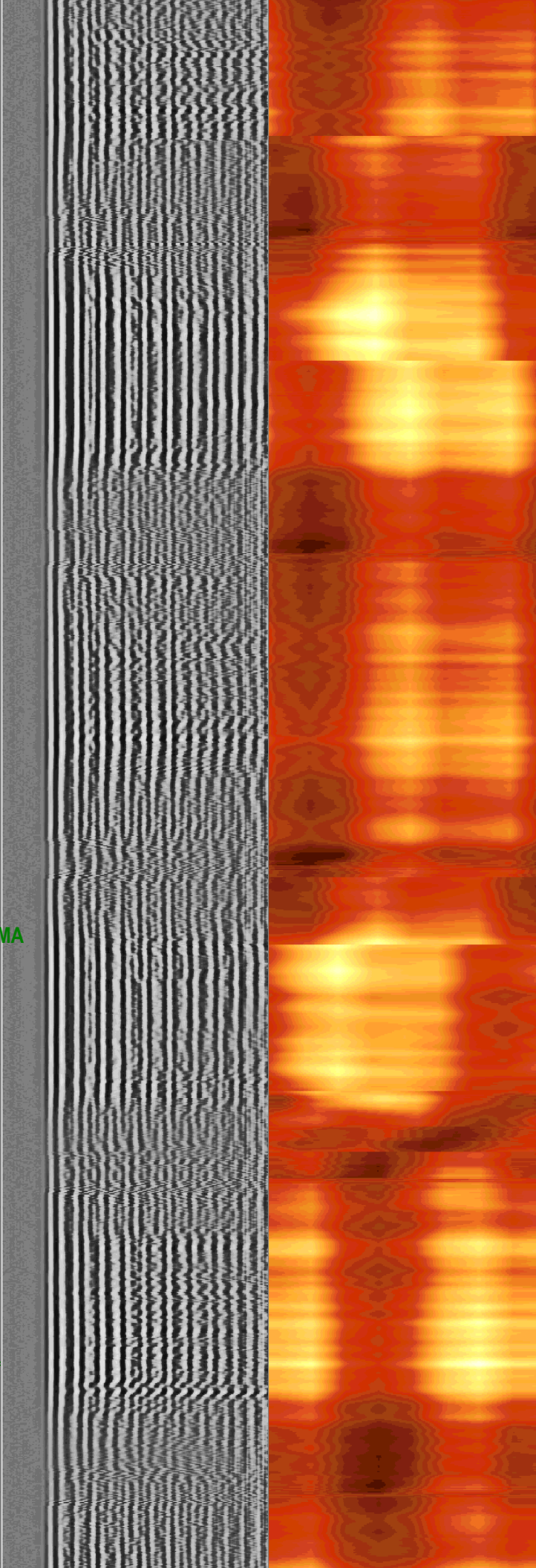
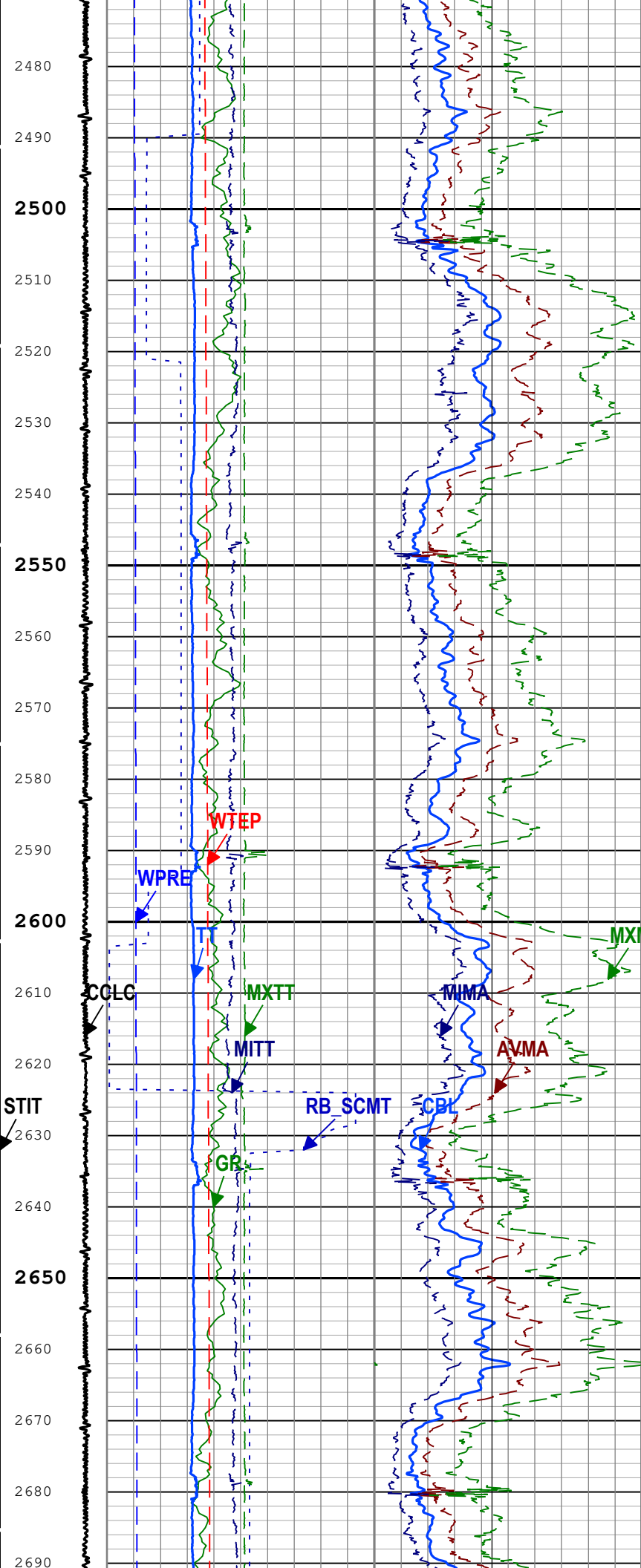




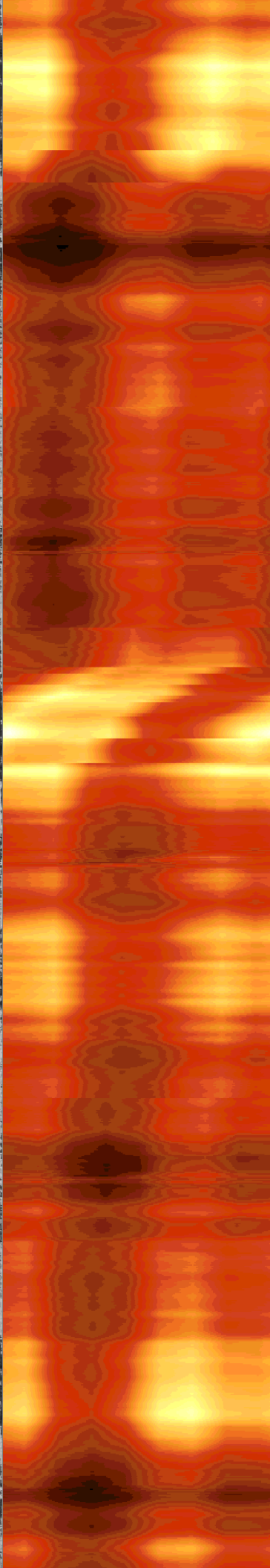
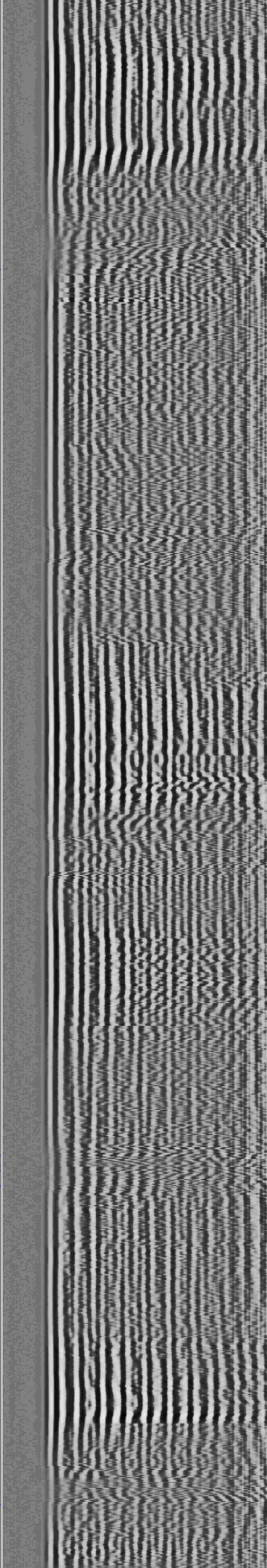
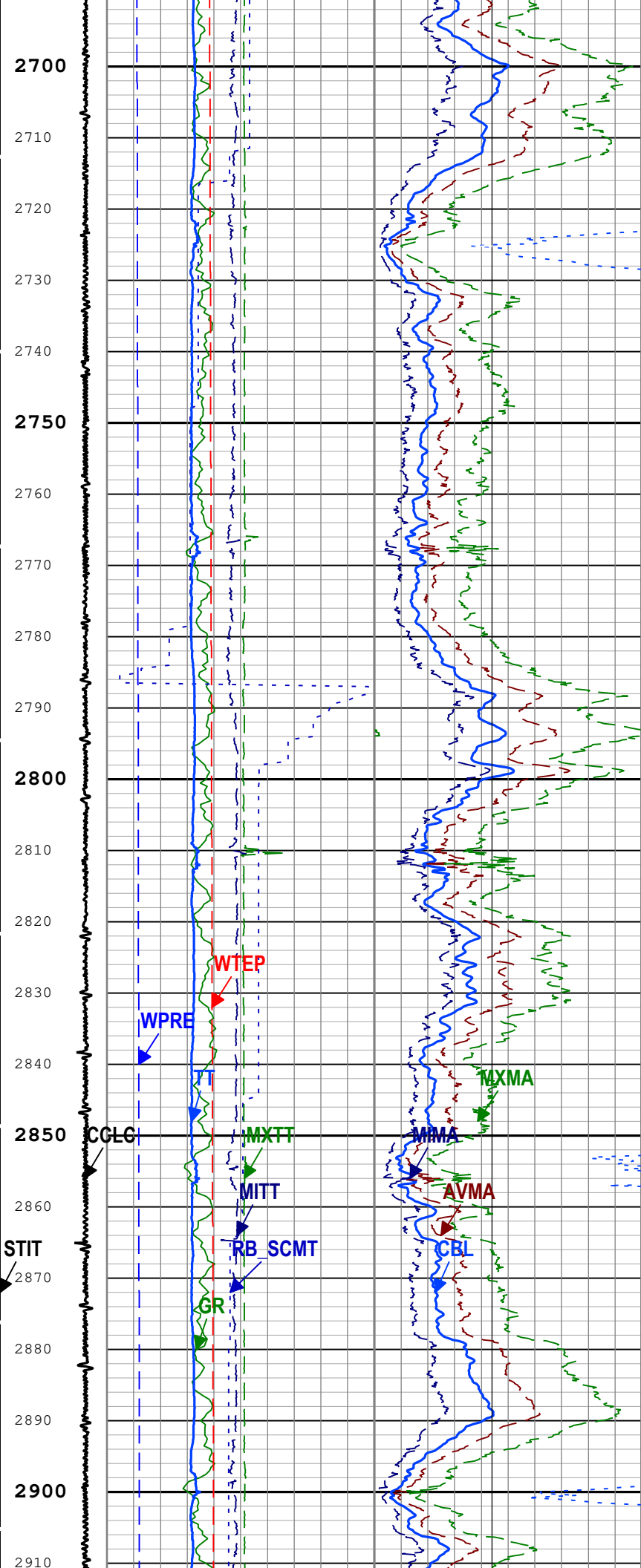




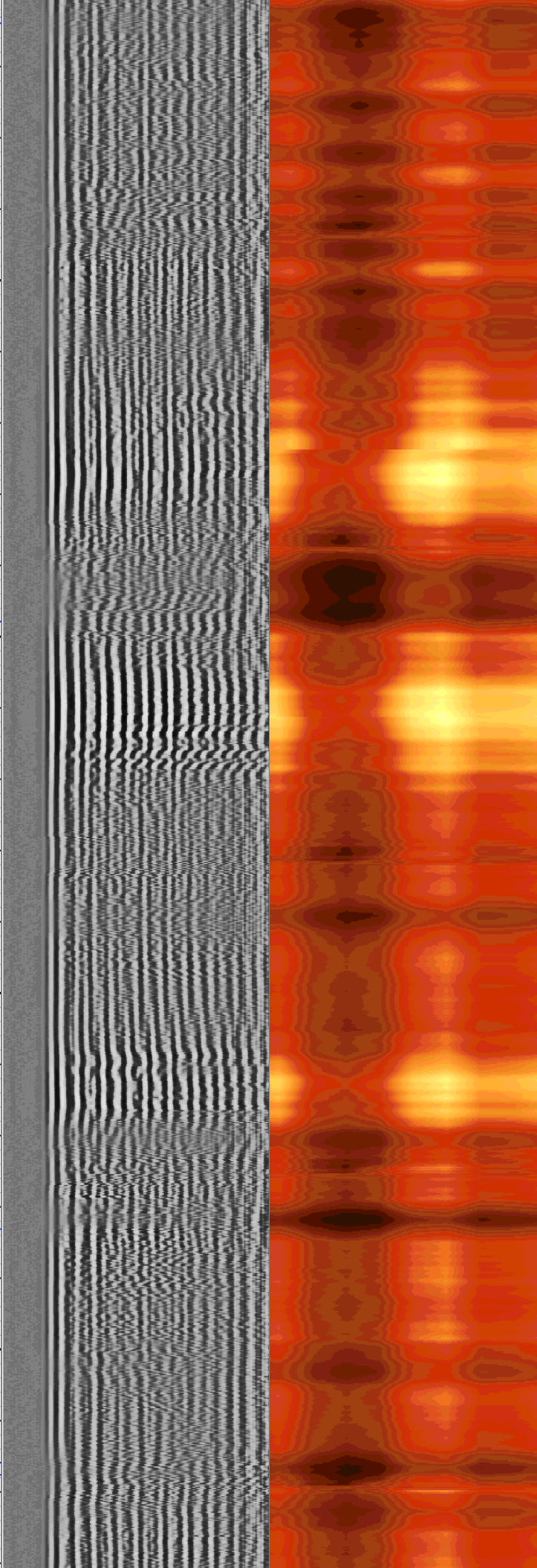
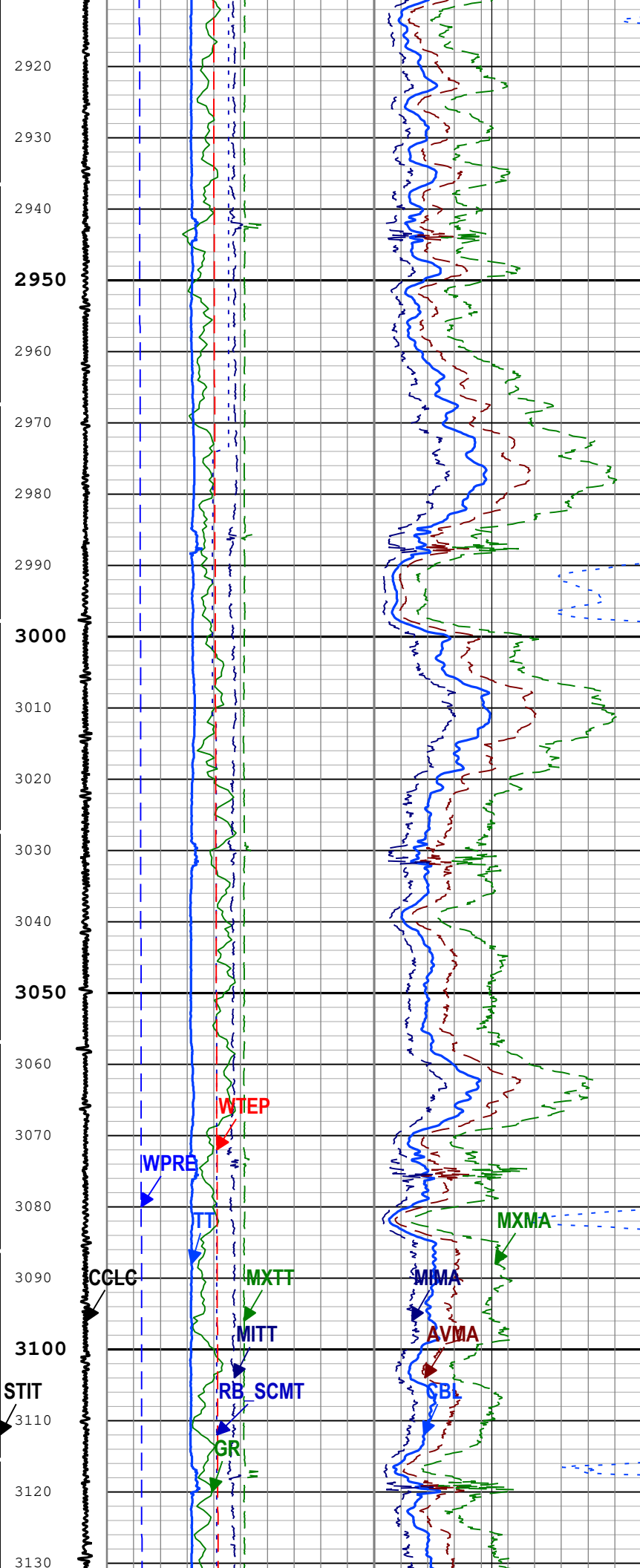


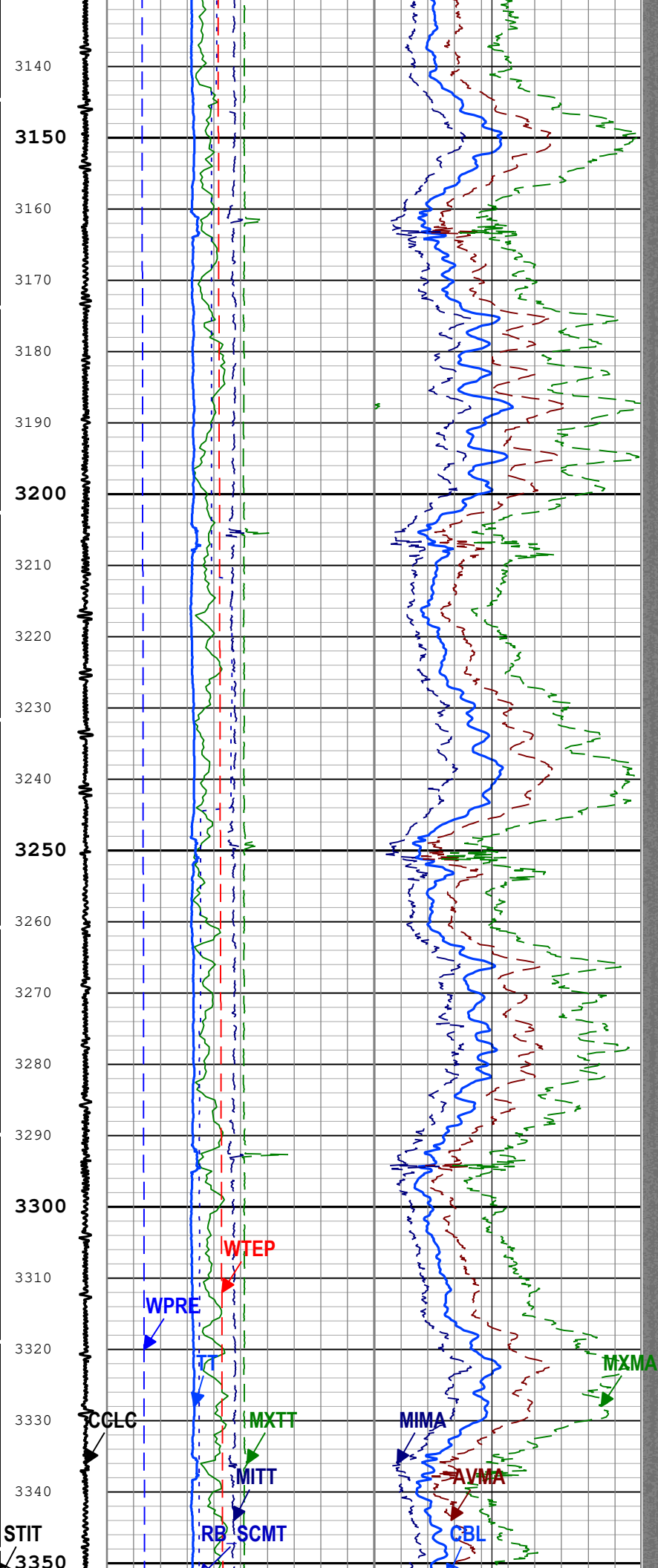




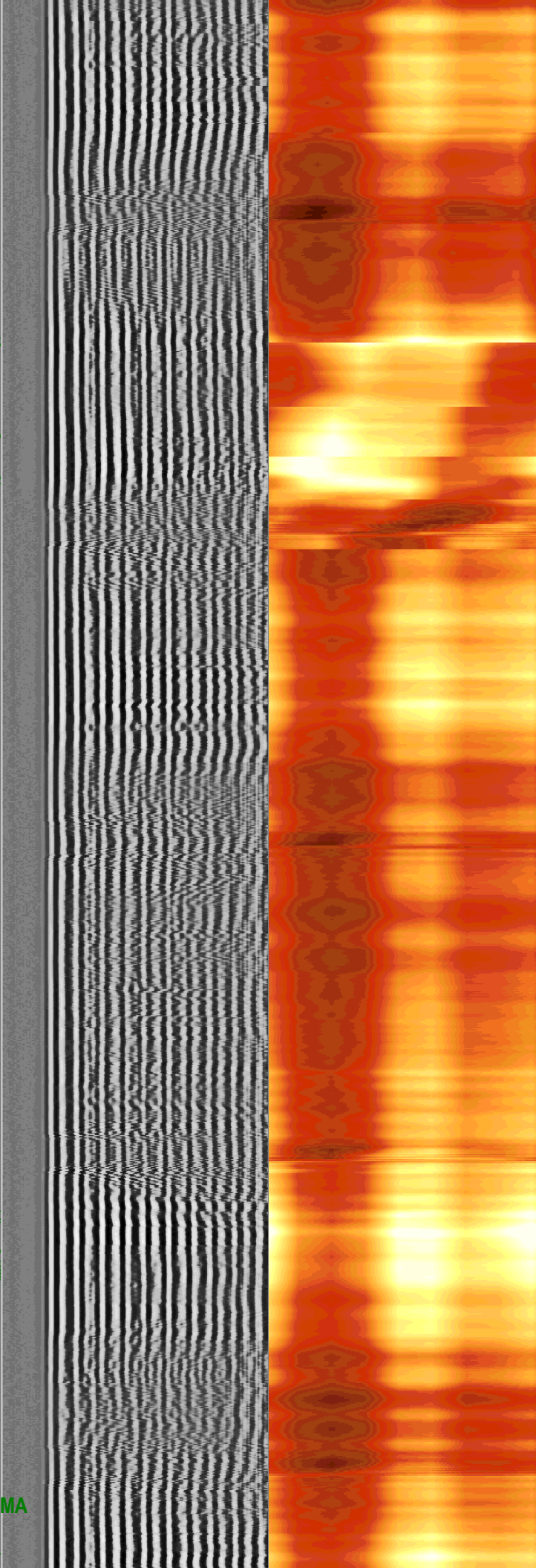
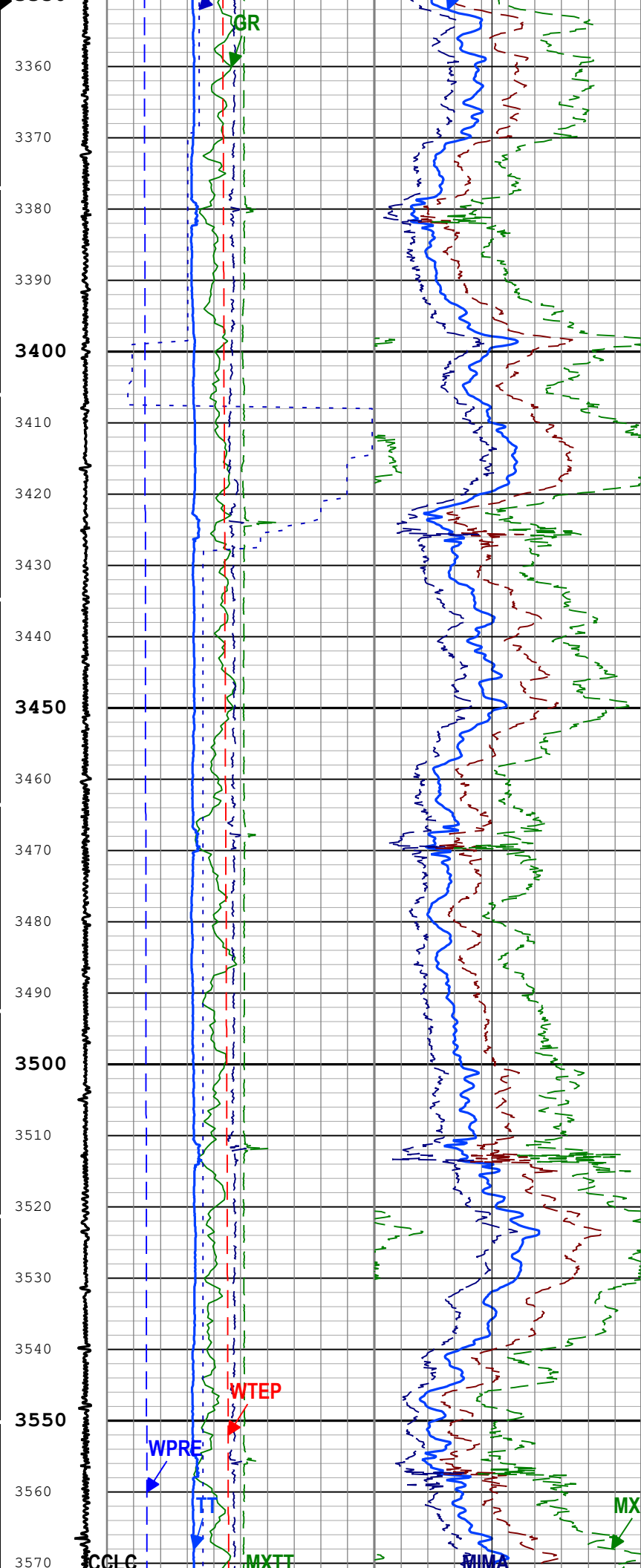




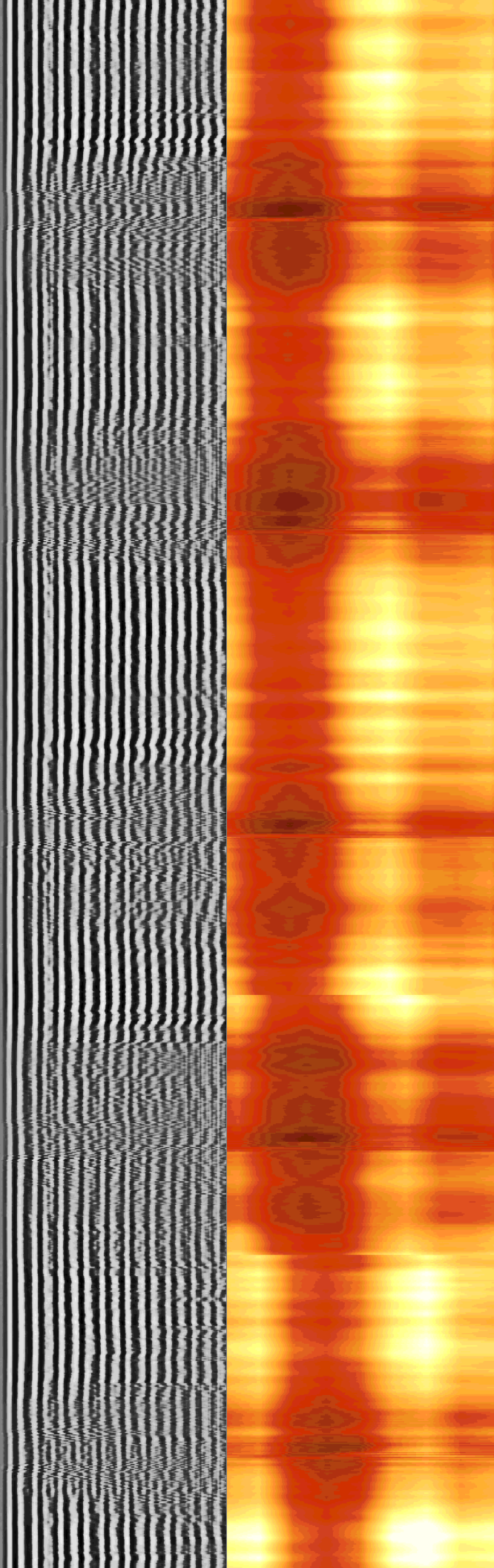
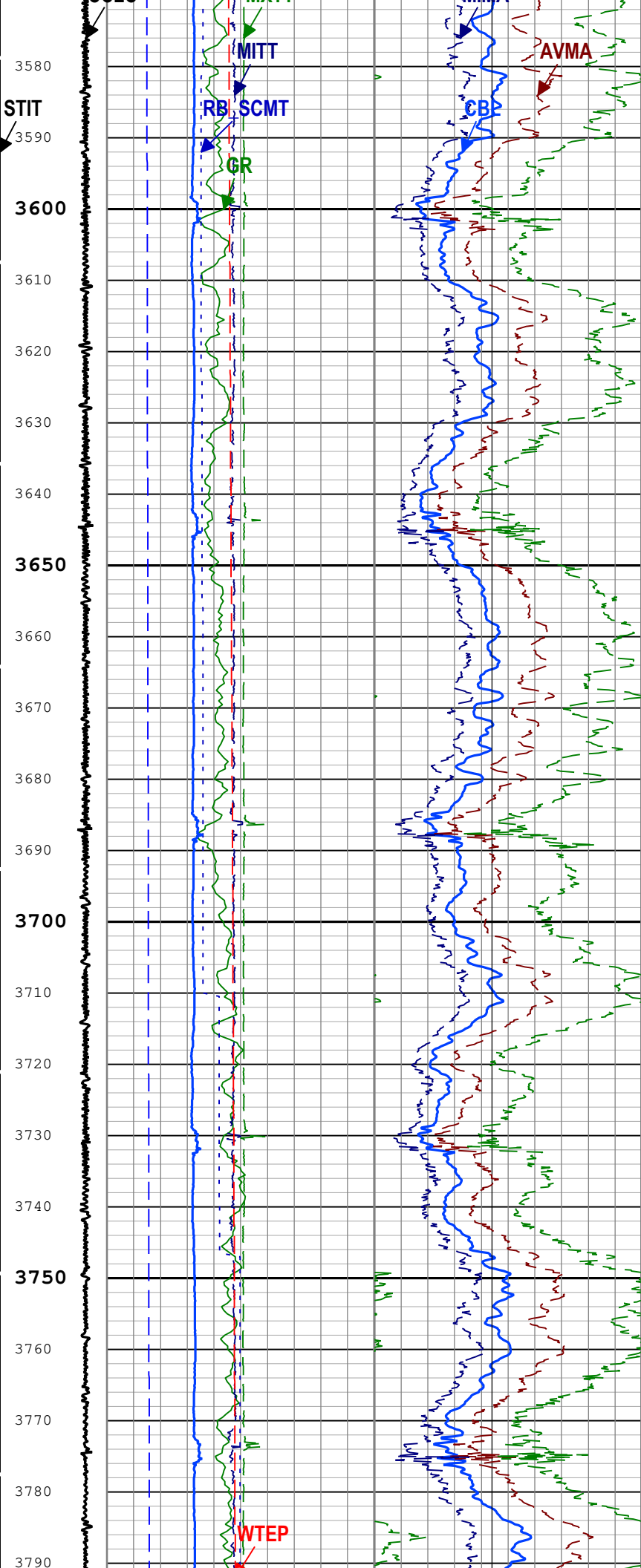


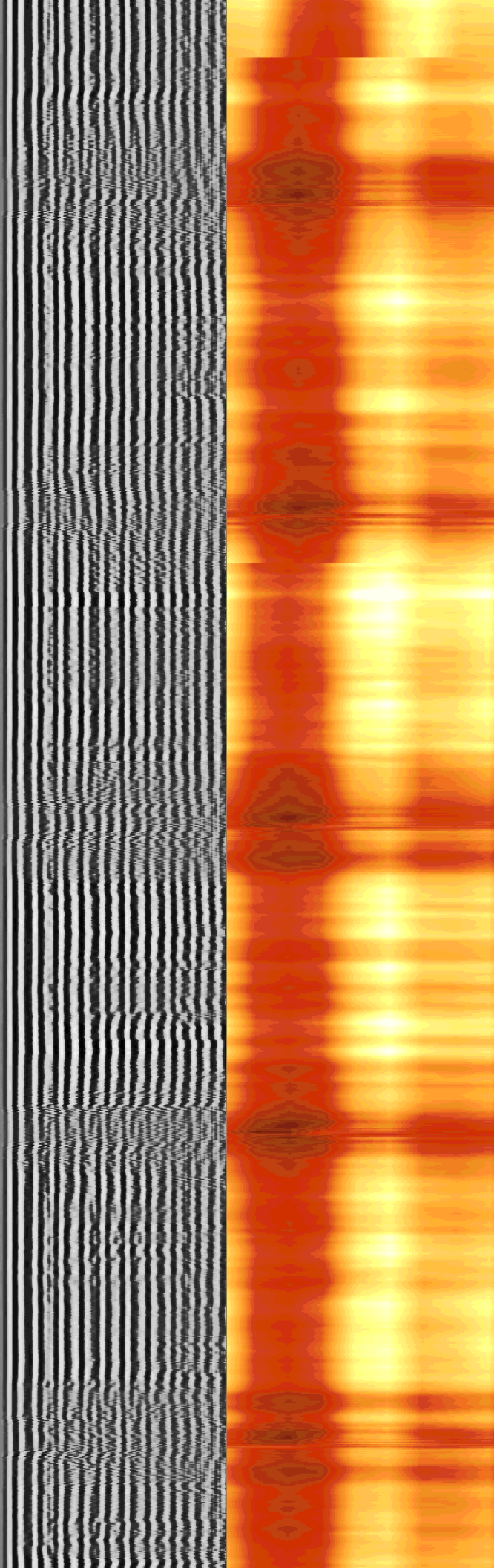
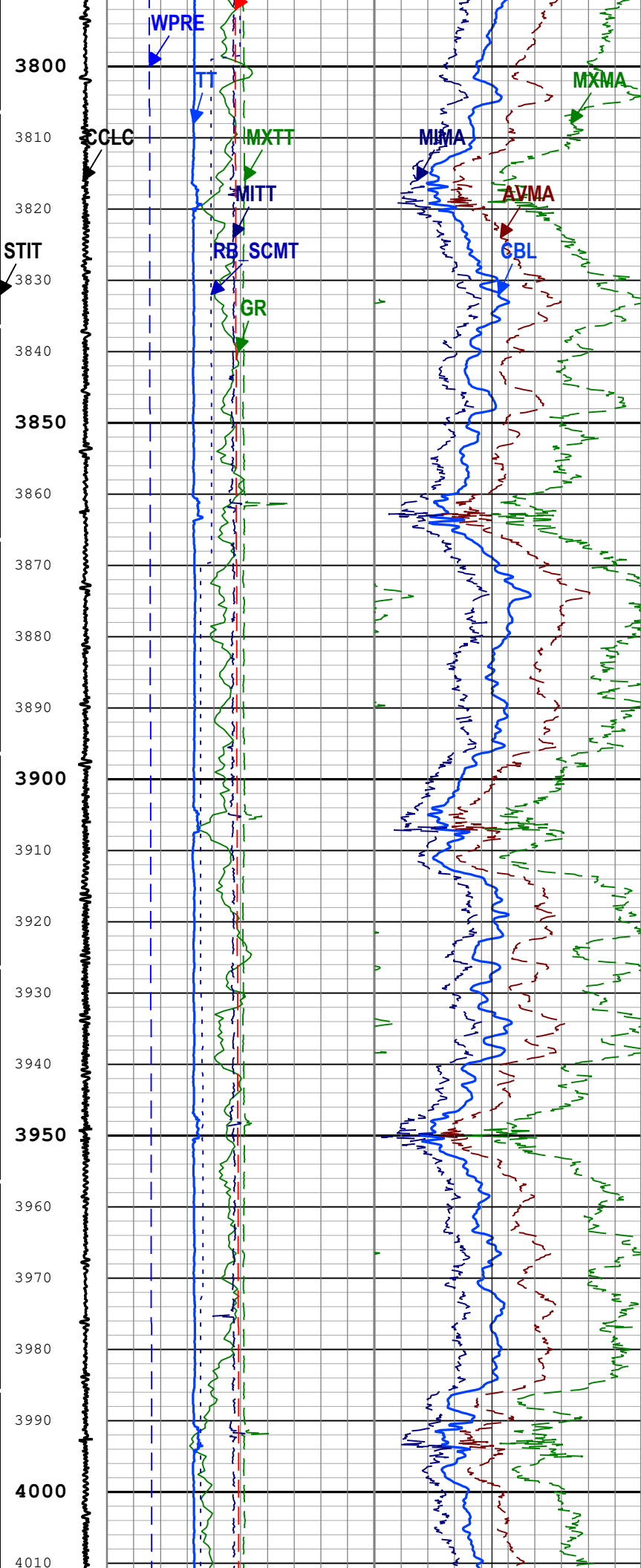




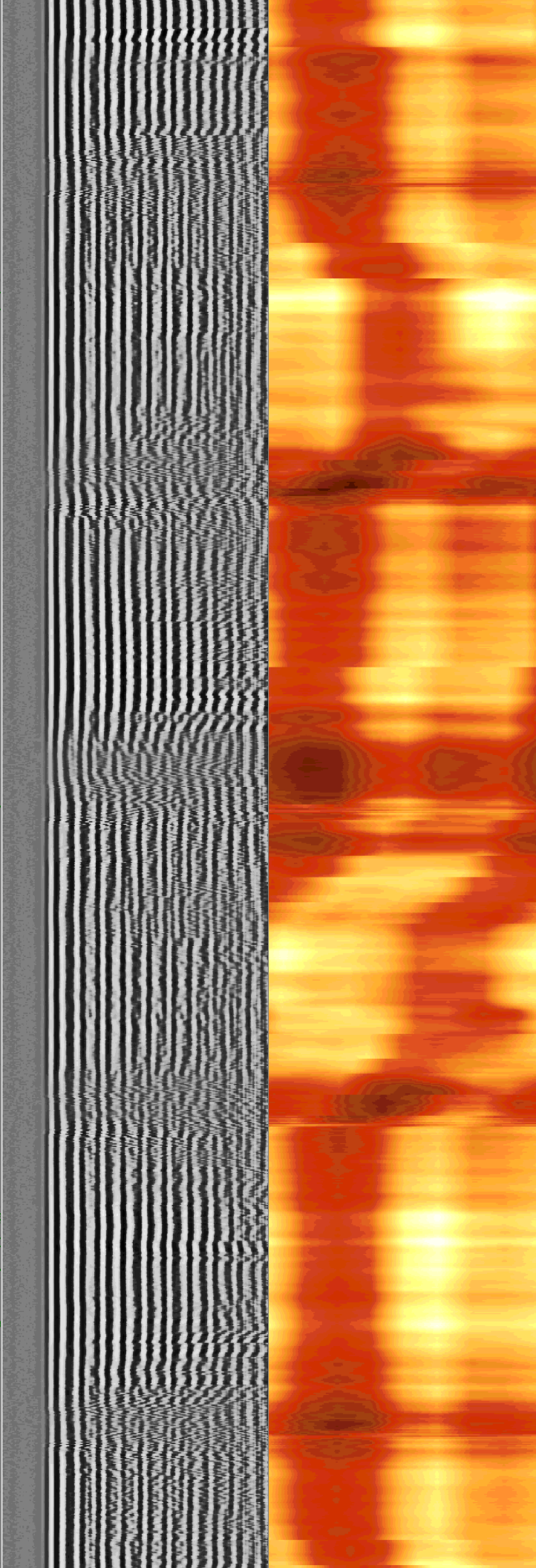
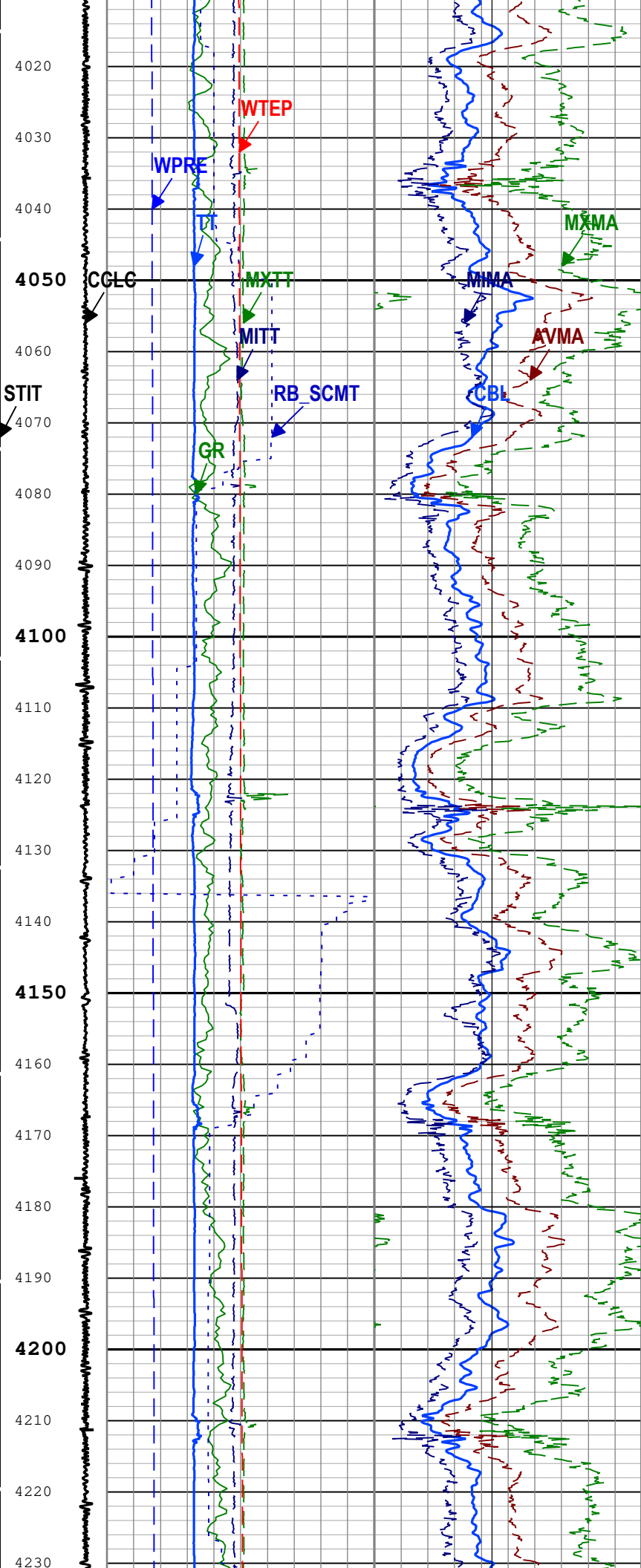




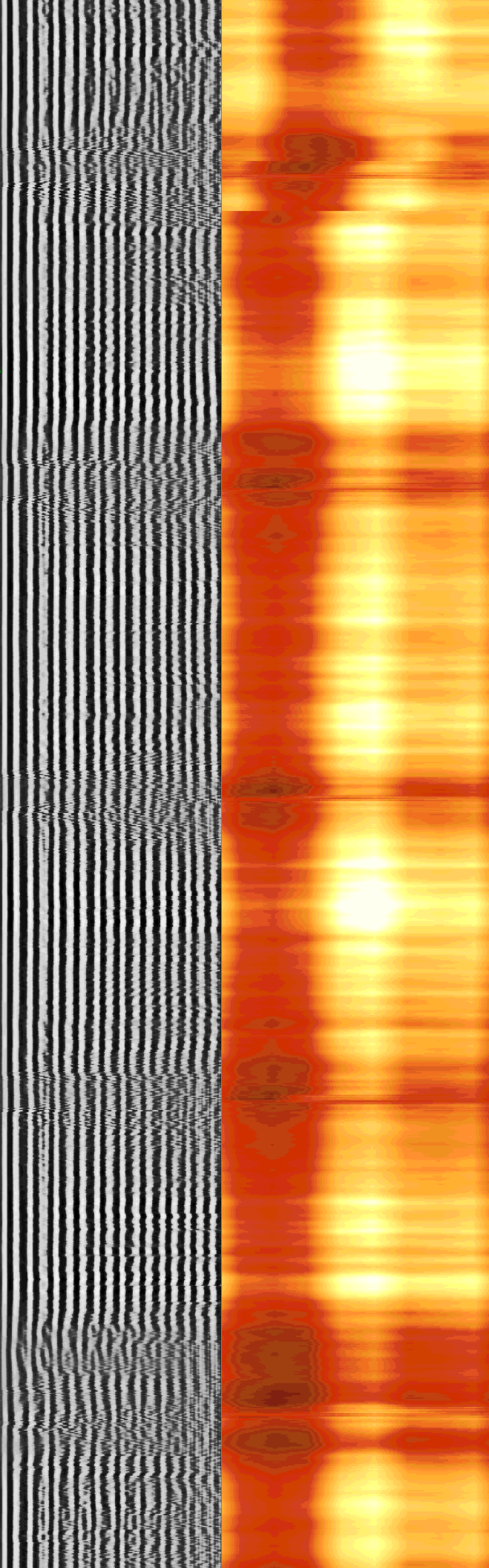
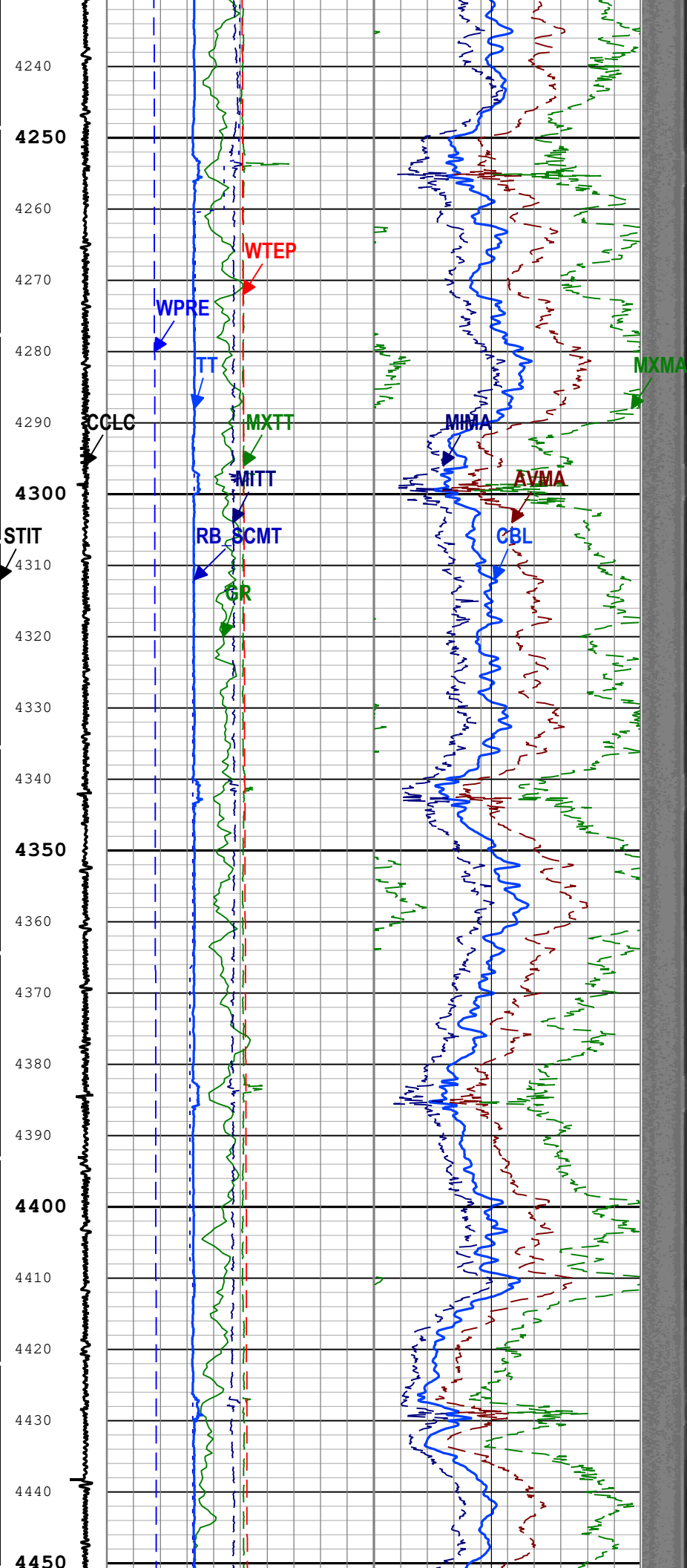


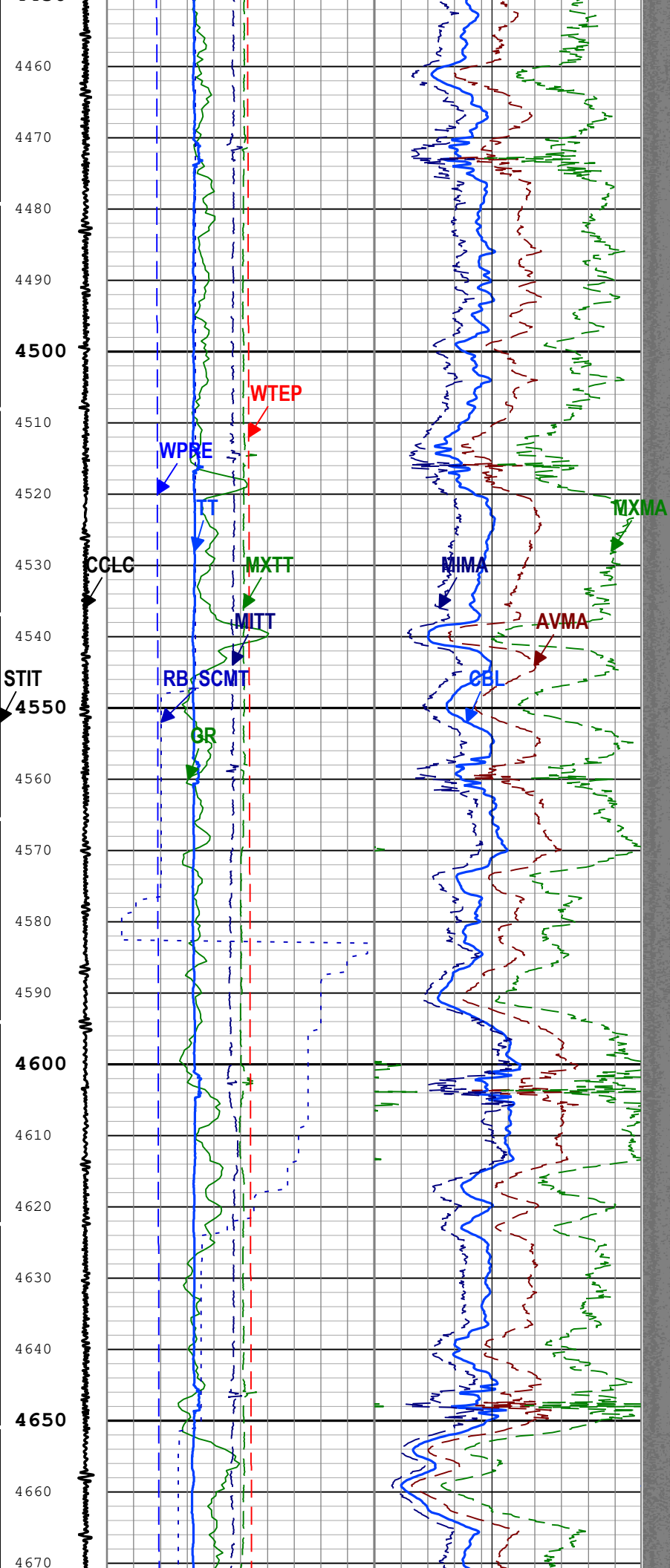




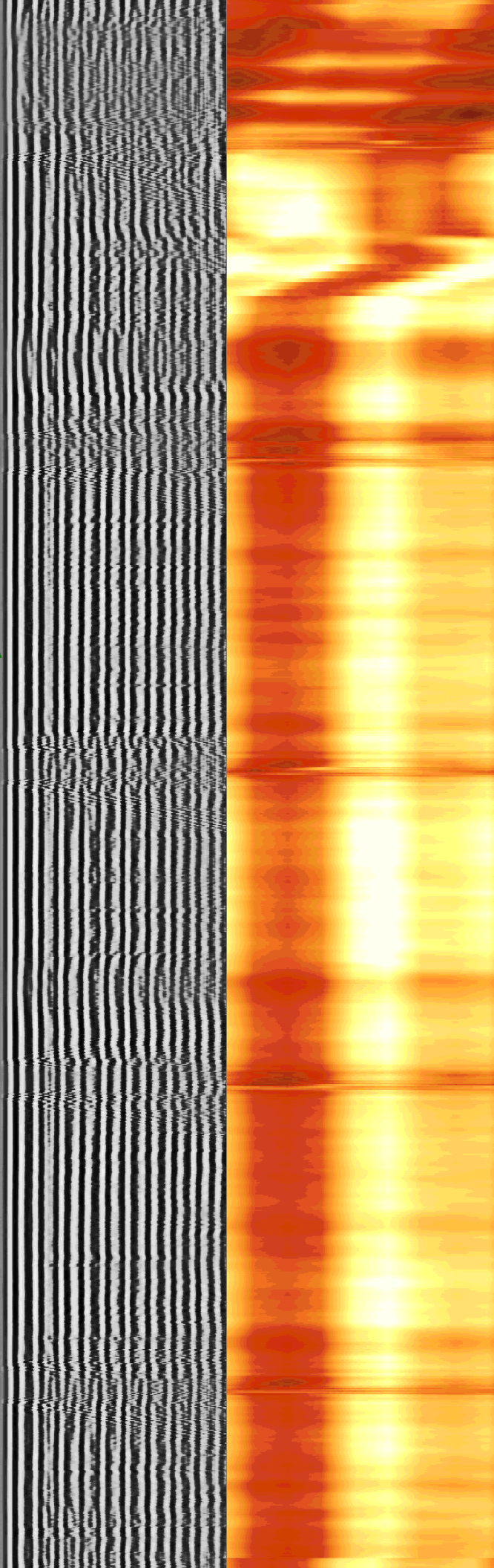
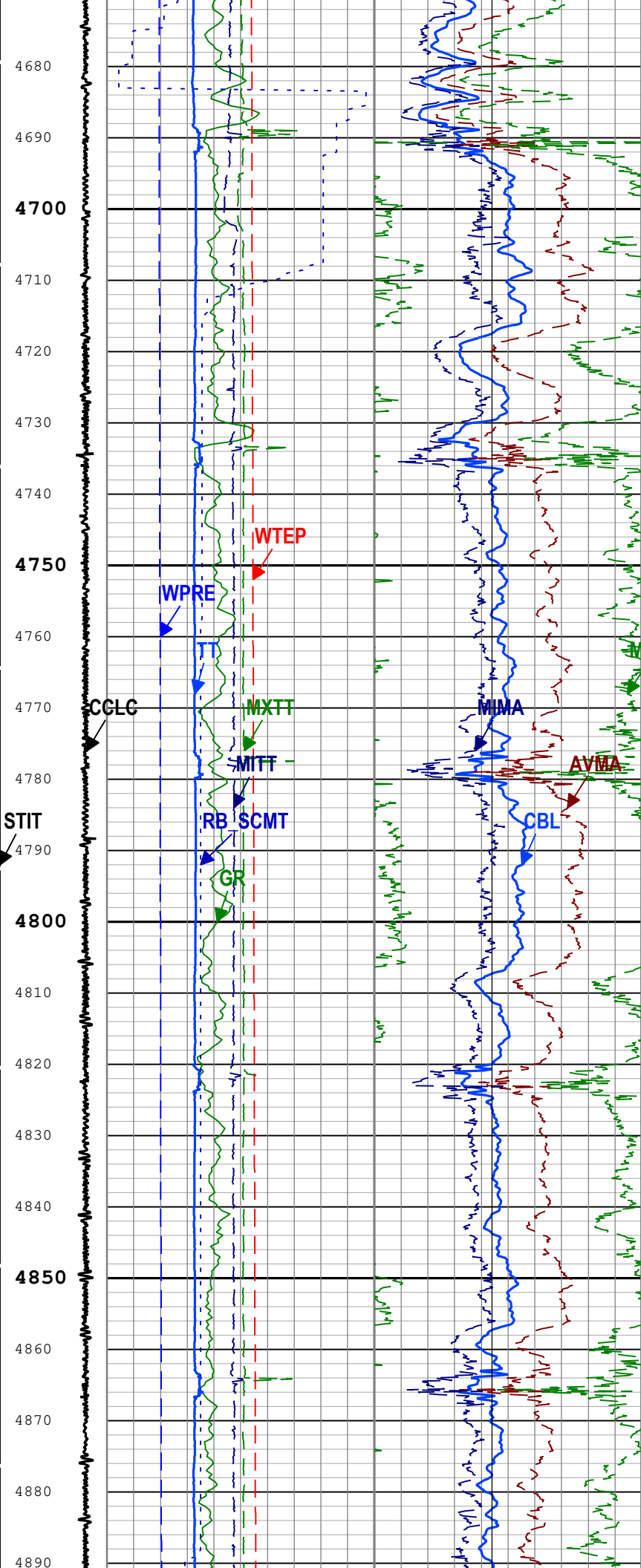




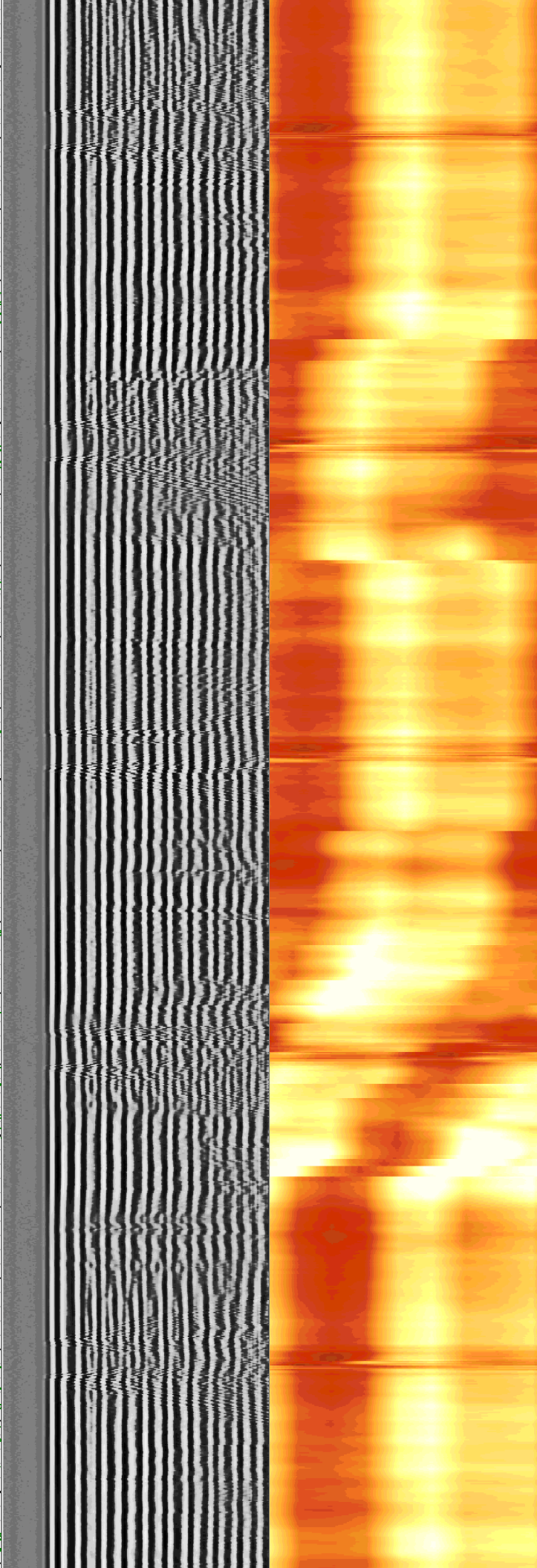
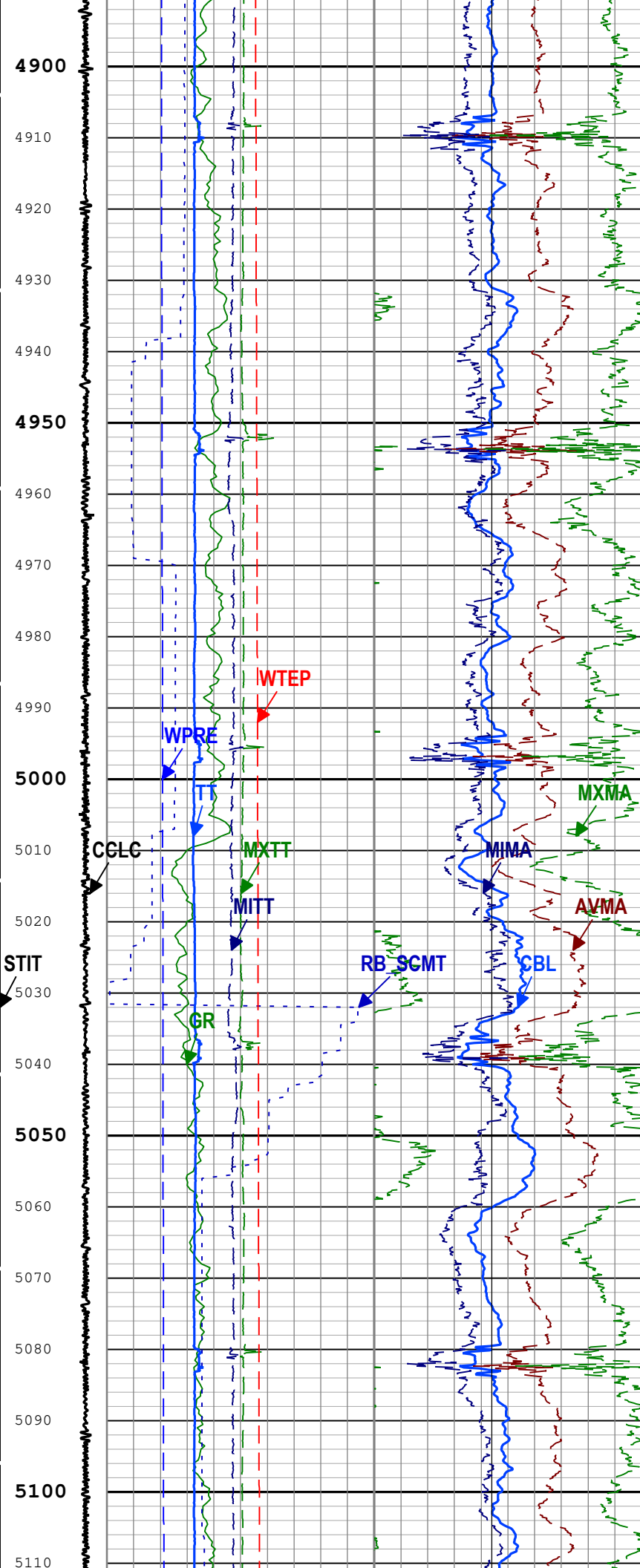


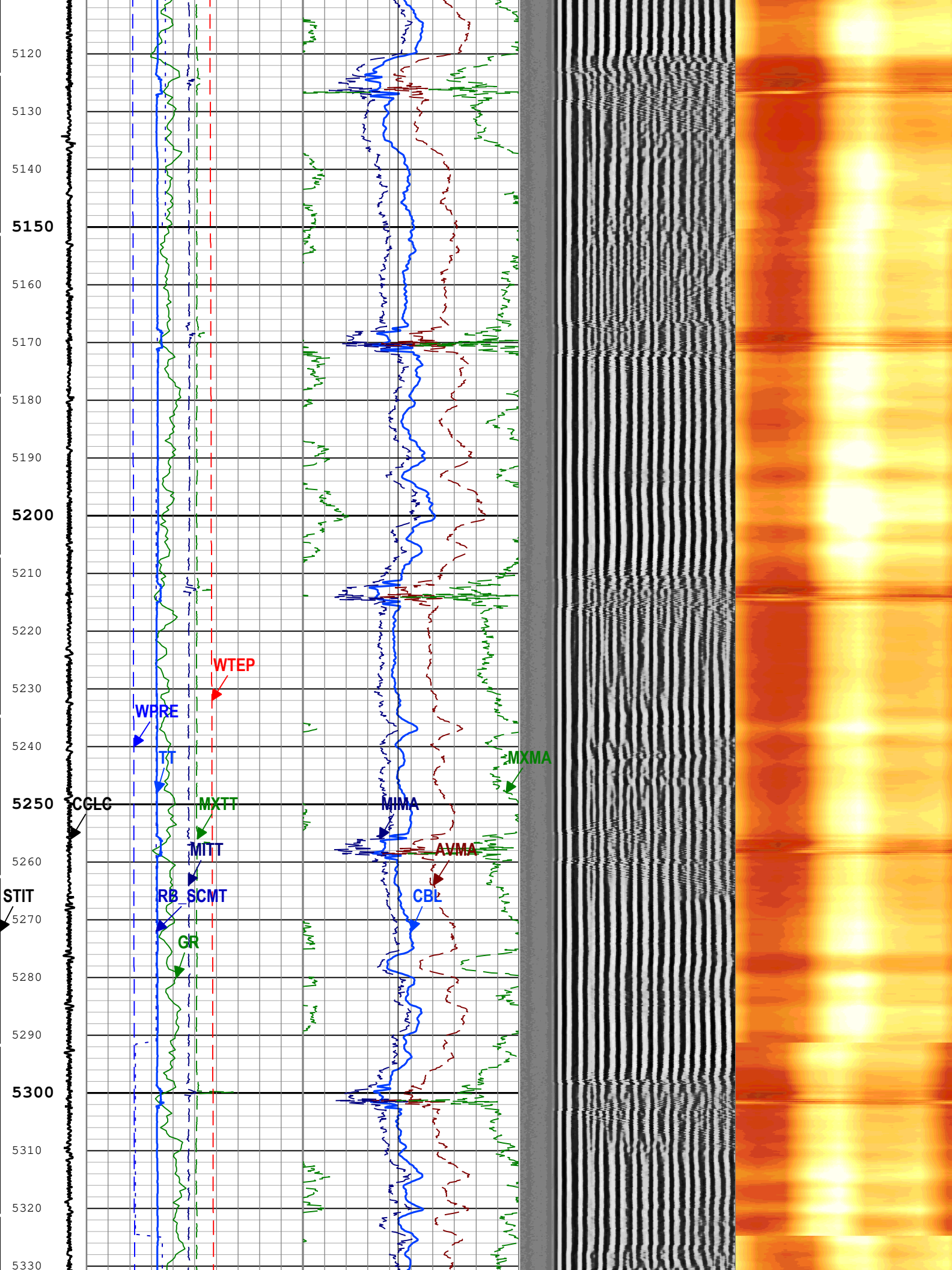




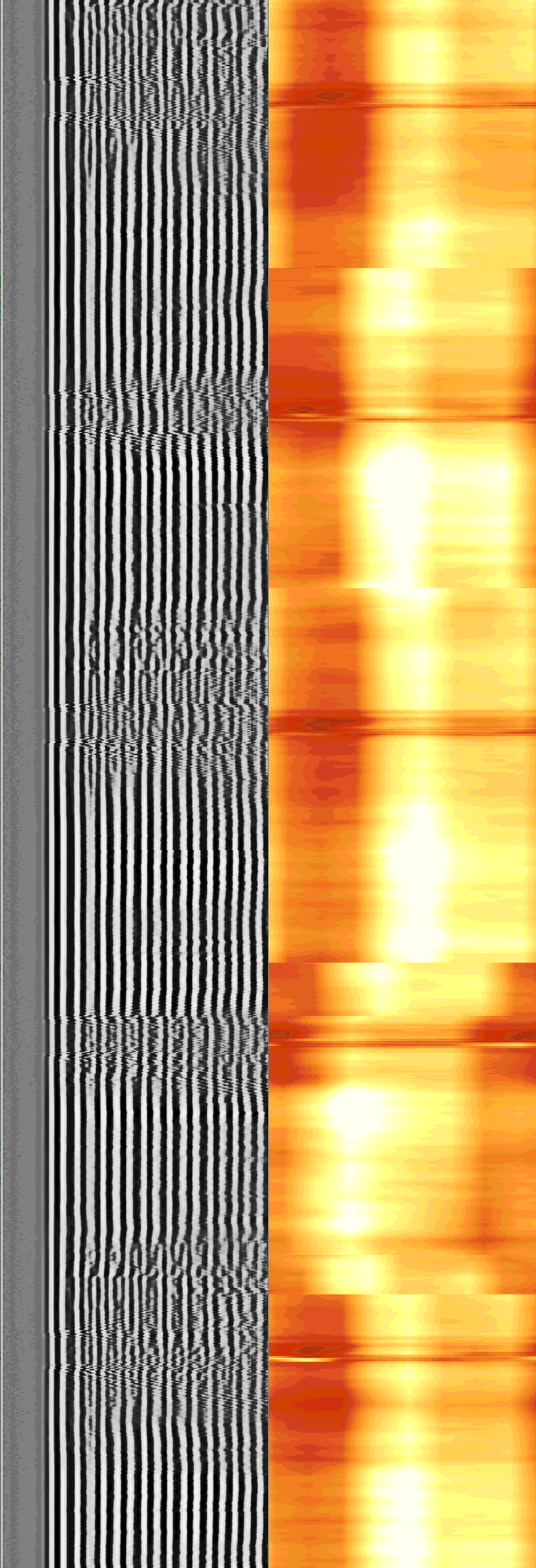
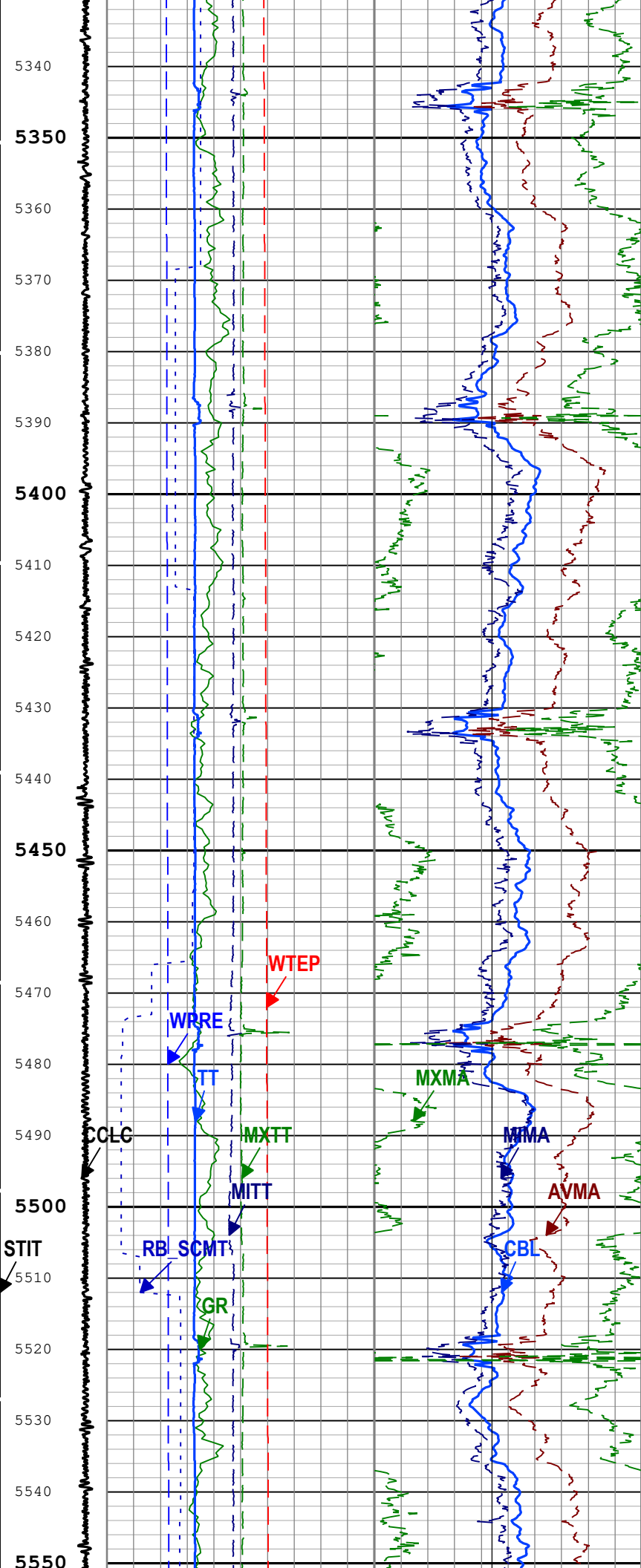




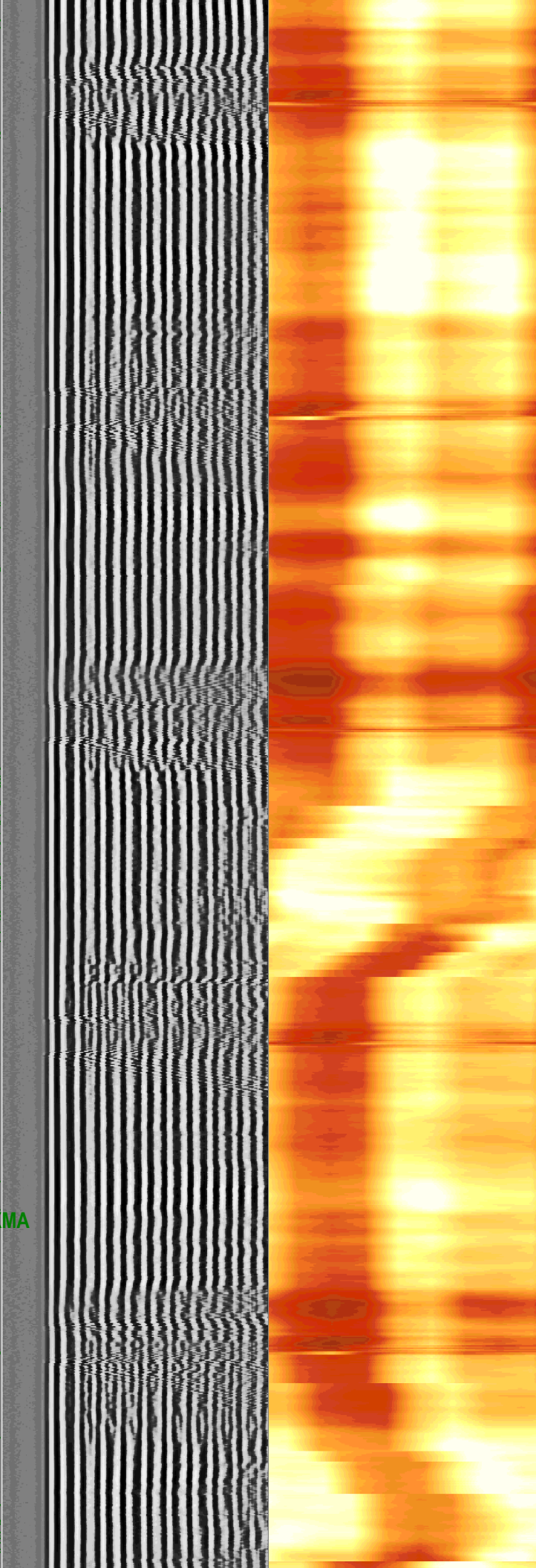
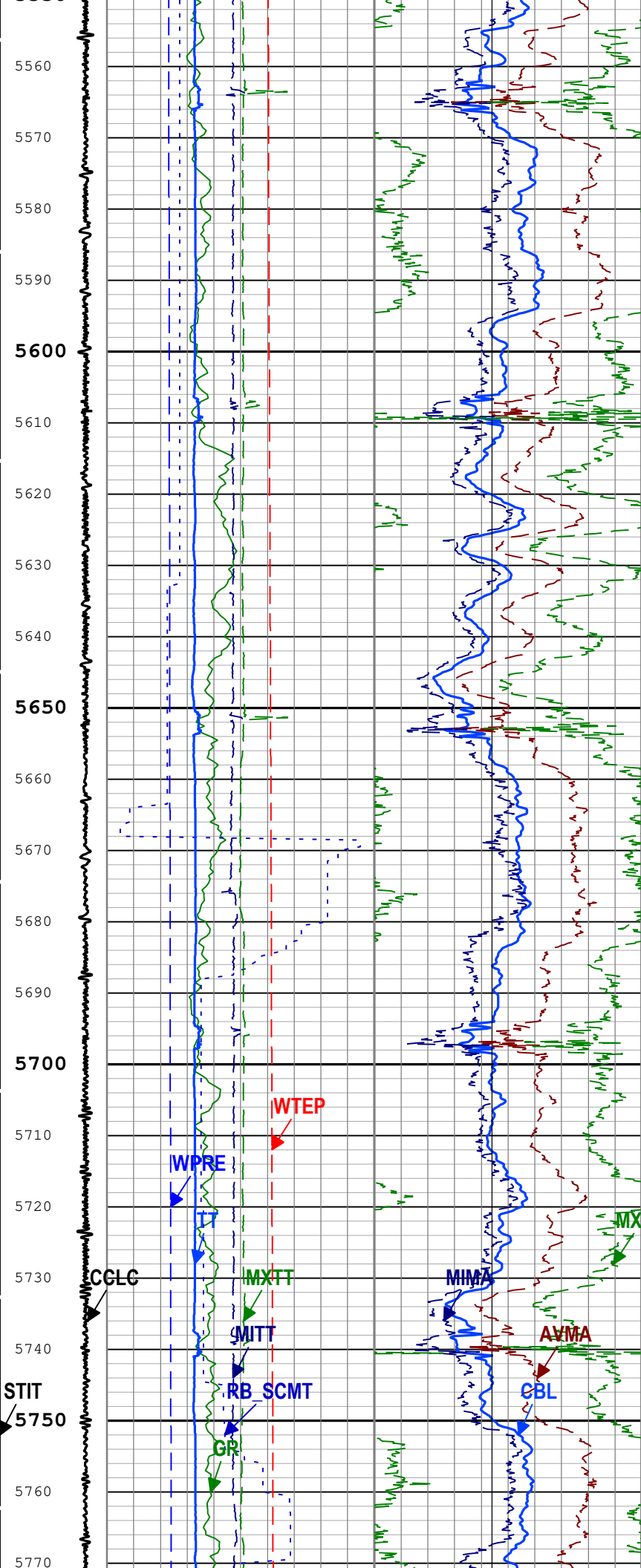


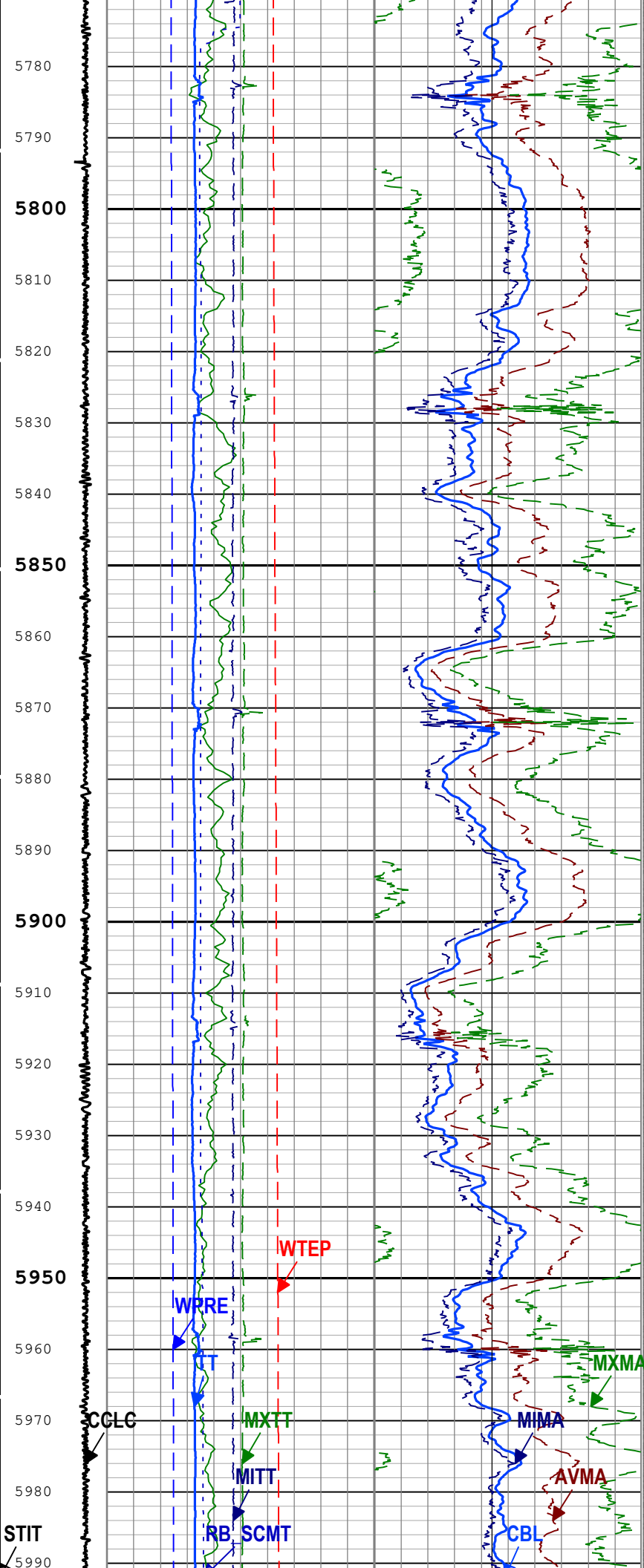




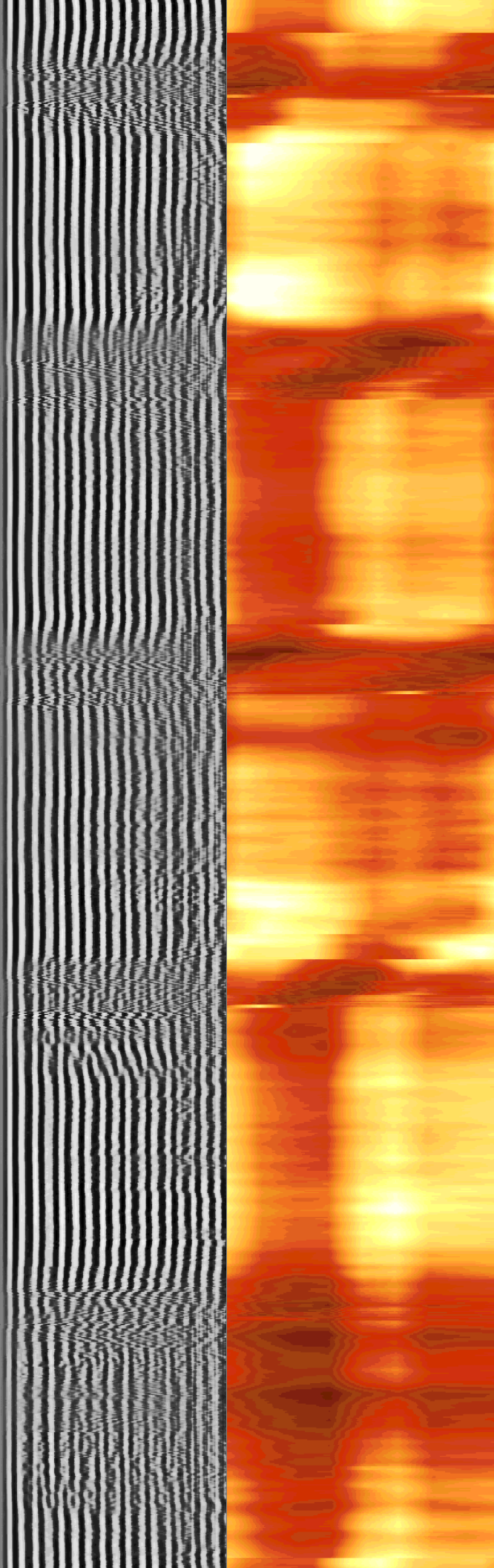
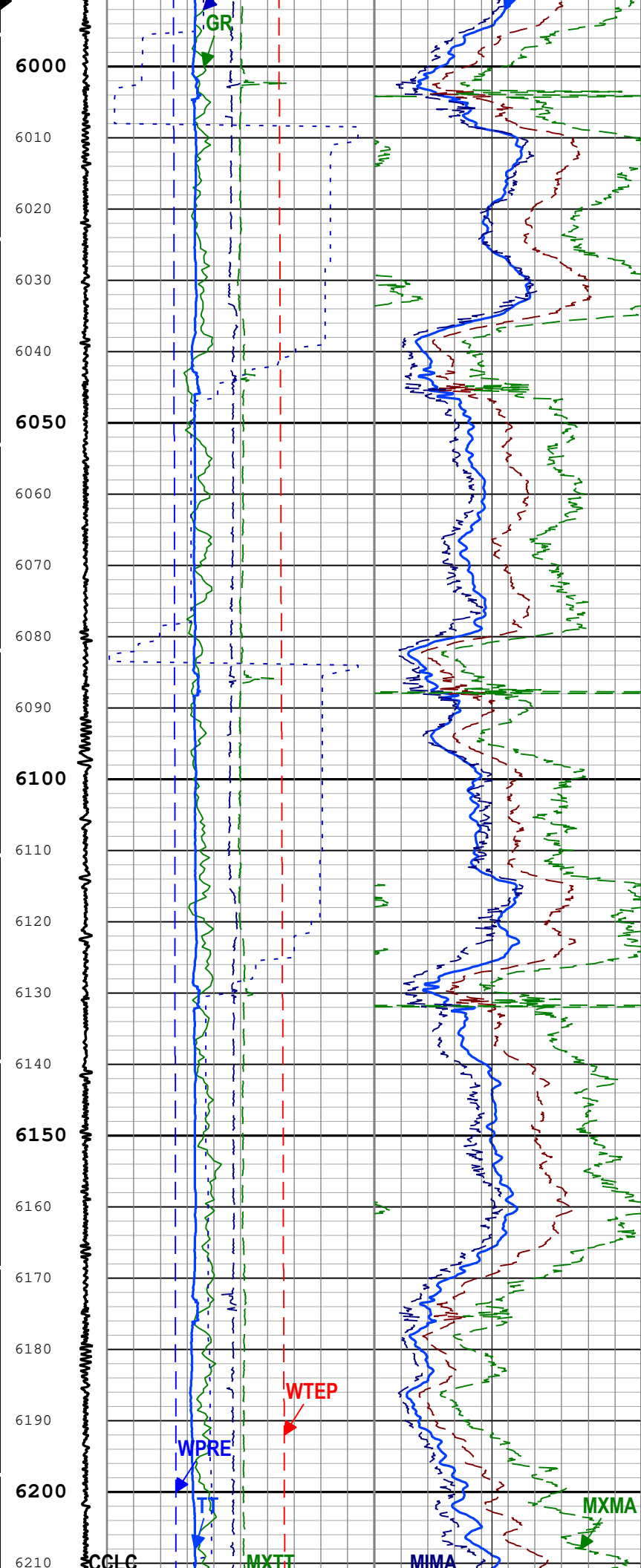




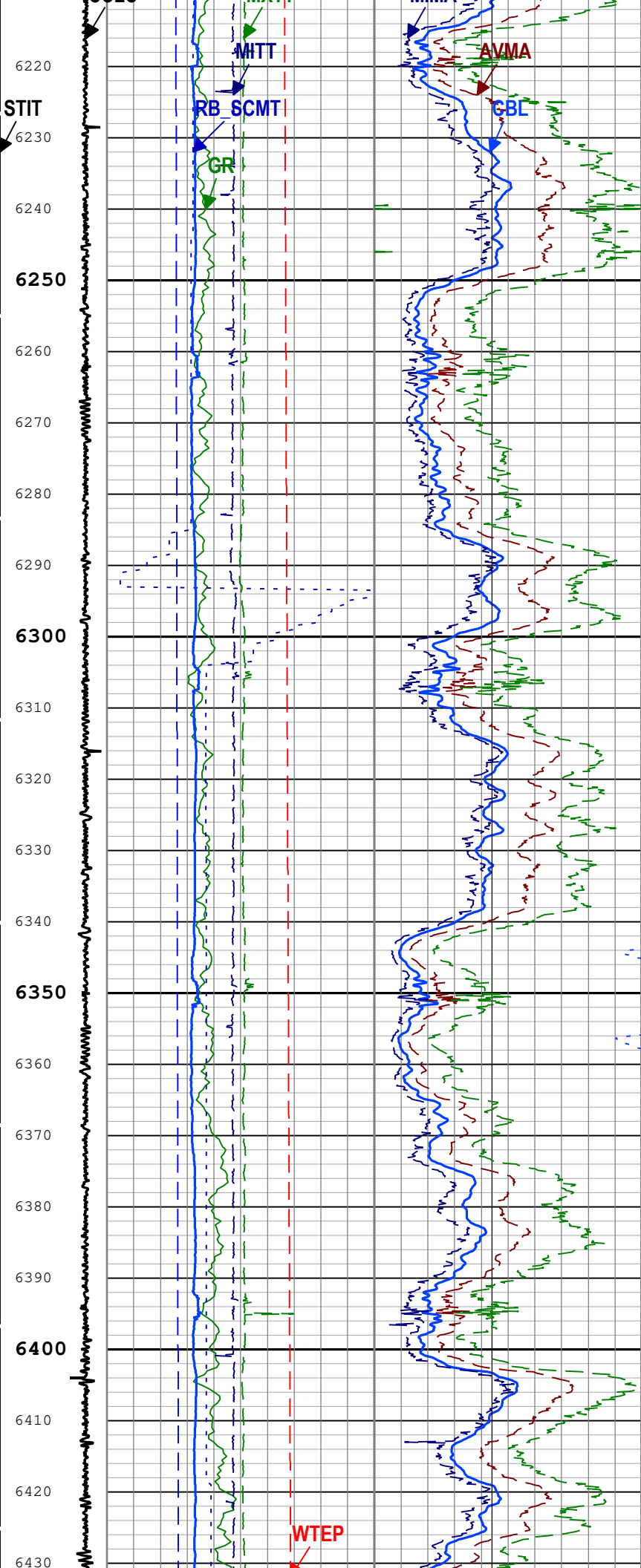


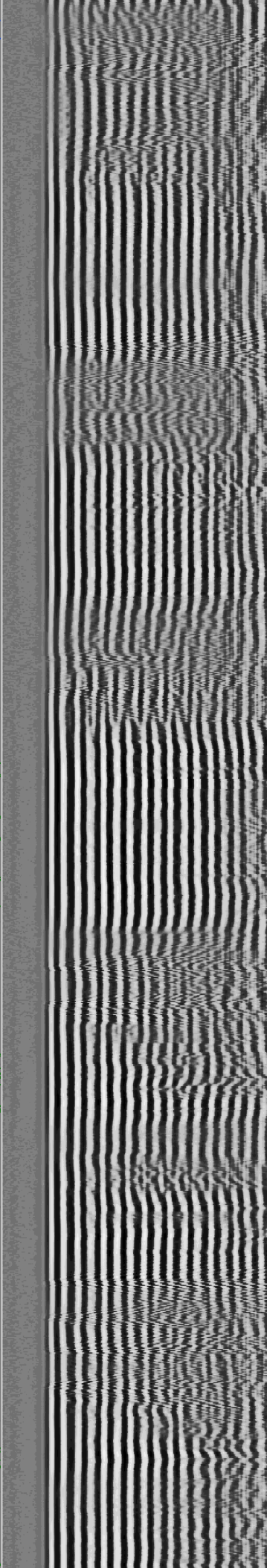
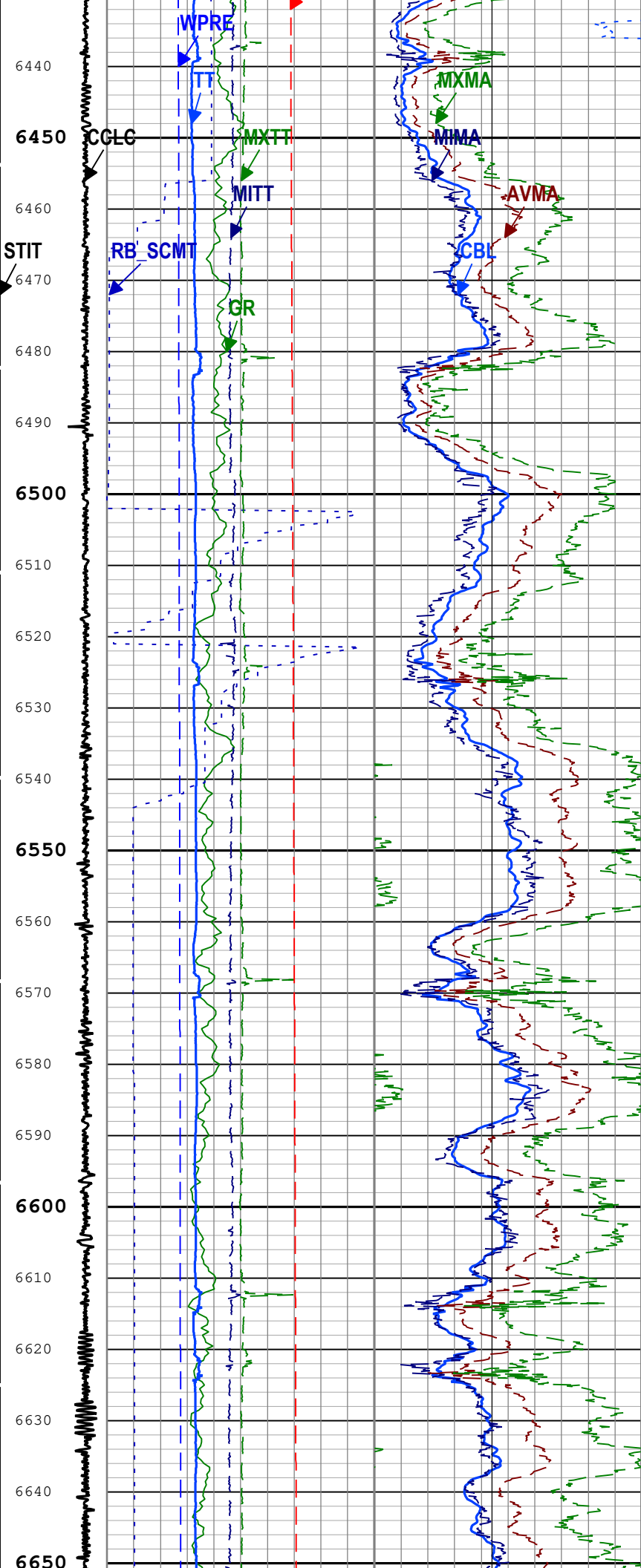




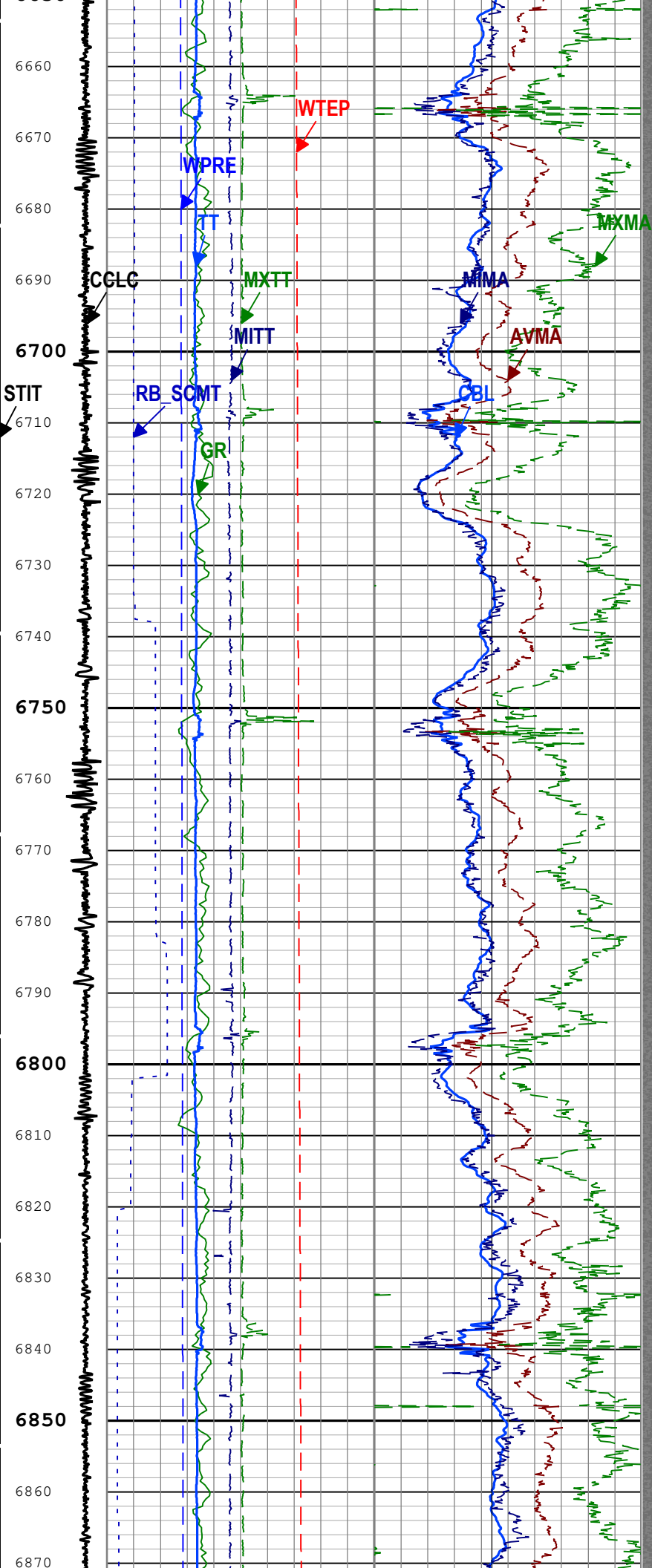


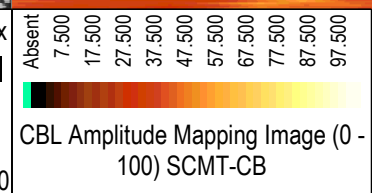
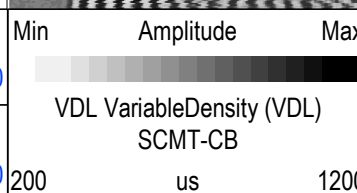
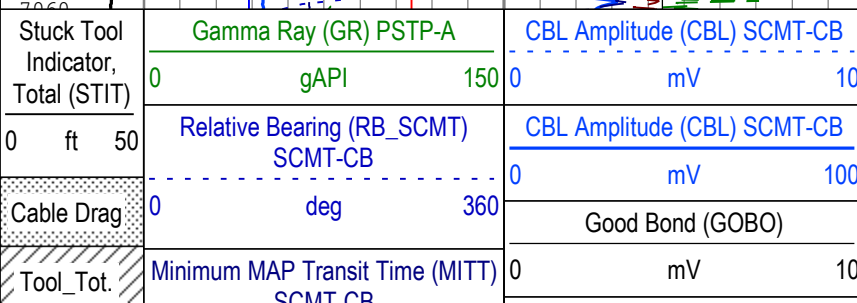














Drag	SCMT-CB		SCMT-CB	
CCL Computed Amplitude (CCLC) PSTP-A  -0.8 V 0.2	100	us	300	Normalized Average MAP Amplitude (AVMA) SCMT-CB
	Maximum MAP Transit Time (MXTT) SCMT-CB		0	mV 100
	100	us	300	Normalized Minimum MAP Amplitude (MIMA) SCMT-CB
	Transit Time for CBL (TT) SCMT-CB		0	mV 100
	200	us	400	Normalized Maximum MAP Amplitude (MXMA) SCMT-CB
	Well Pressure (WPRES) PSTP-A		0	mV 100
	0	psi	10000	GoodBond From CBL to GOBO
	Well Temperature (WTEP) PSTP-A		0	
	0	degF	300	

TIME\_1900 - Time Marked every 60.00 (s)

Description: SCMT VDL Image    Format: Log ( SCMT\_VDL\_Image )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation  
Date: 22-May-2019 09:26:11

Channel Processing Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	165.55	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	237.94	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	72	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	4.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-CB	179.64	us
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	11.85	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MMSA	MAP Minimum Sonic Amplitude	SCMT-CB	10.85	mV
MSA	Minimum Sonic Amplitude	SCMT-CB	2.19	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	2.19	mV
RUN_SNUM	Run Sequence Number	WSDRUN	2	

Depth Zone Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
MCI	14.81	70	2339
MCI	4.75	2339	7060

All depth are actual.

Tool Control Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	12 dB	

# Software Version

Acquisition System

Maxwell 2019

Version

9.0.106845.3100

# Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Two	Log[2]:Up	Up	2049.38 ft	2401.76 ft	21-May-2019 1:10:22 PM	21-May-2019 1:23:17 PM	ON	1.55 ft	No

All depths are referenced to toolstring zero

# Log

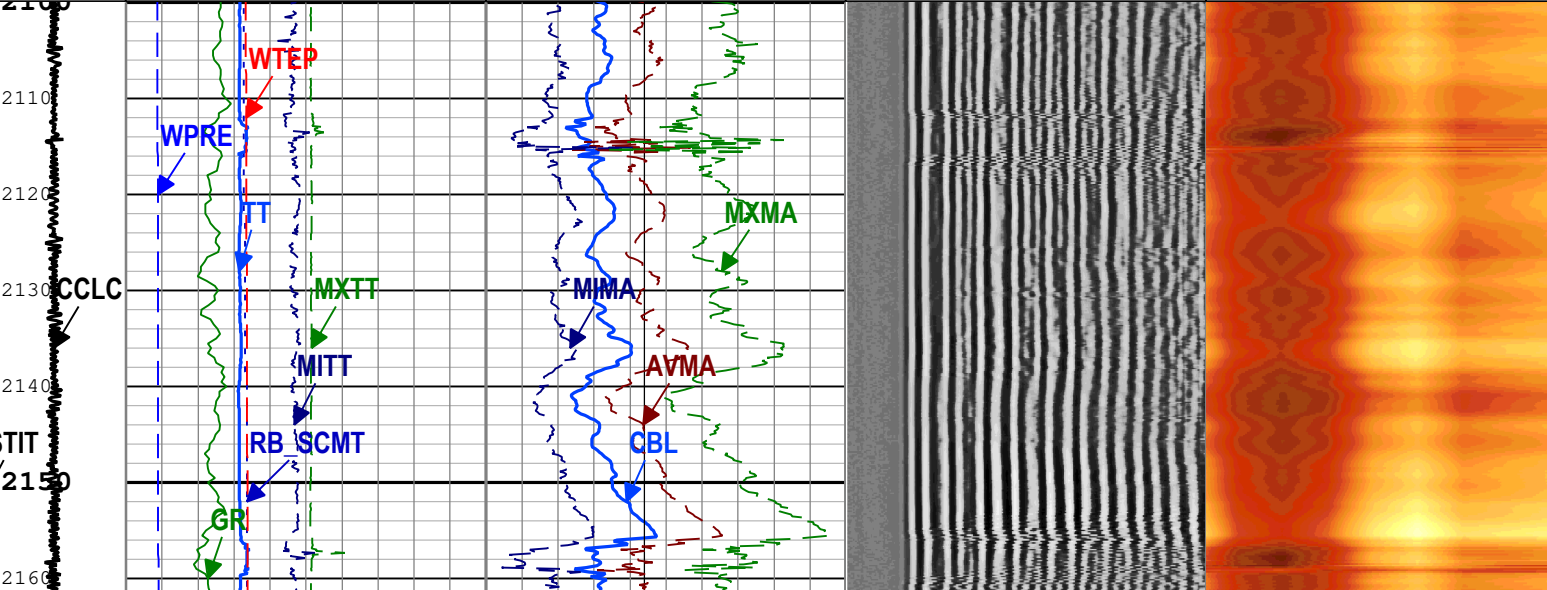
Company:Crestone Peak Resources and Operating LLC Well:Echeverria 2I-2H-D267

Two: Log[2]:Up:S011

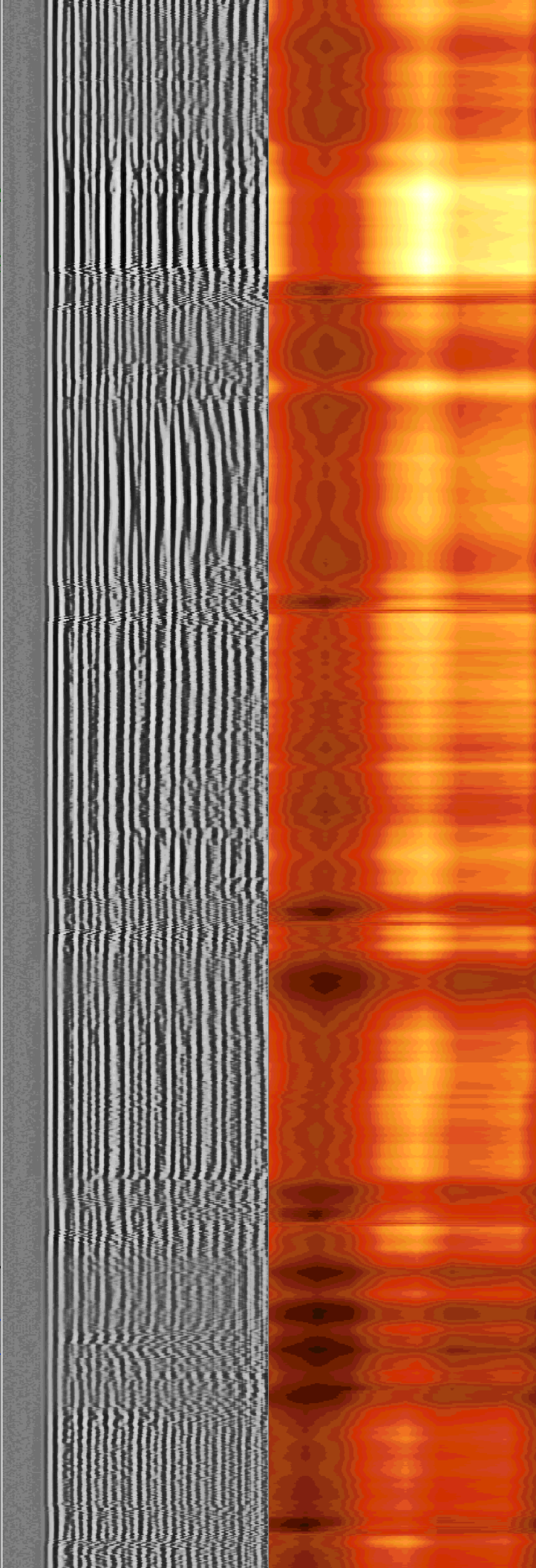
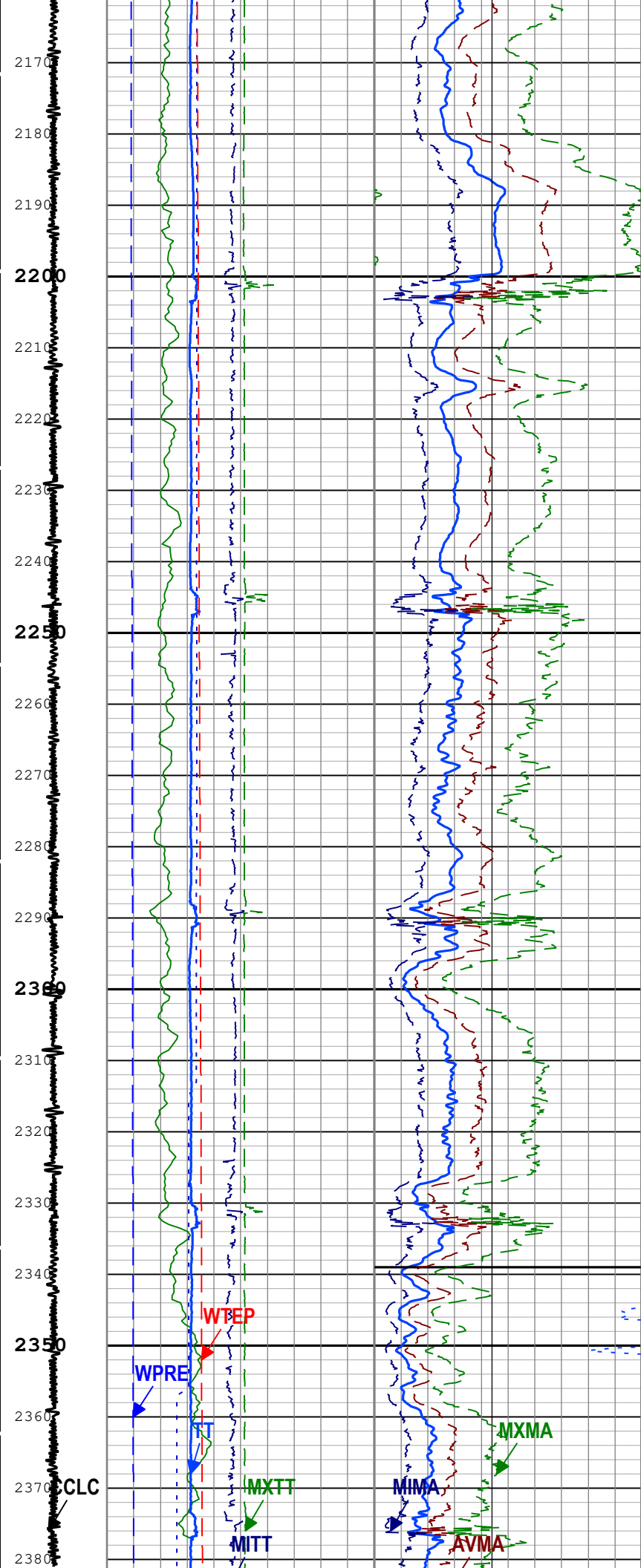
Description: SCMT VDL Image Format: Log ( SCMT\_VDL\_Image\_Repeat ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth  
 Creation Date: 22-May-2019 09:26:23

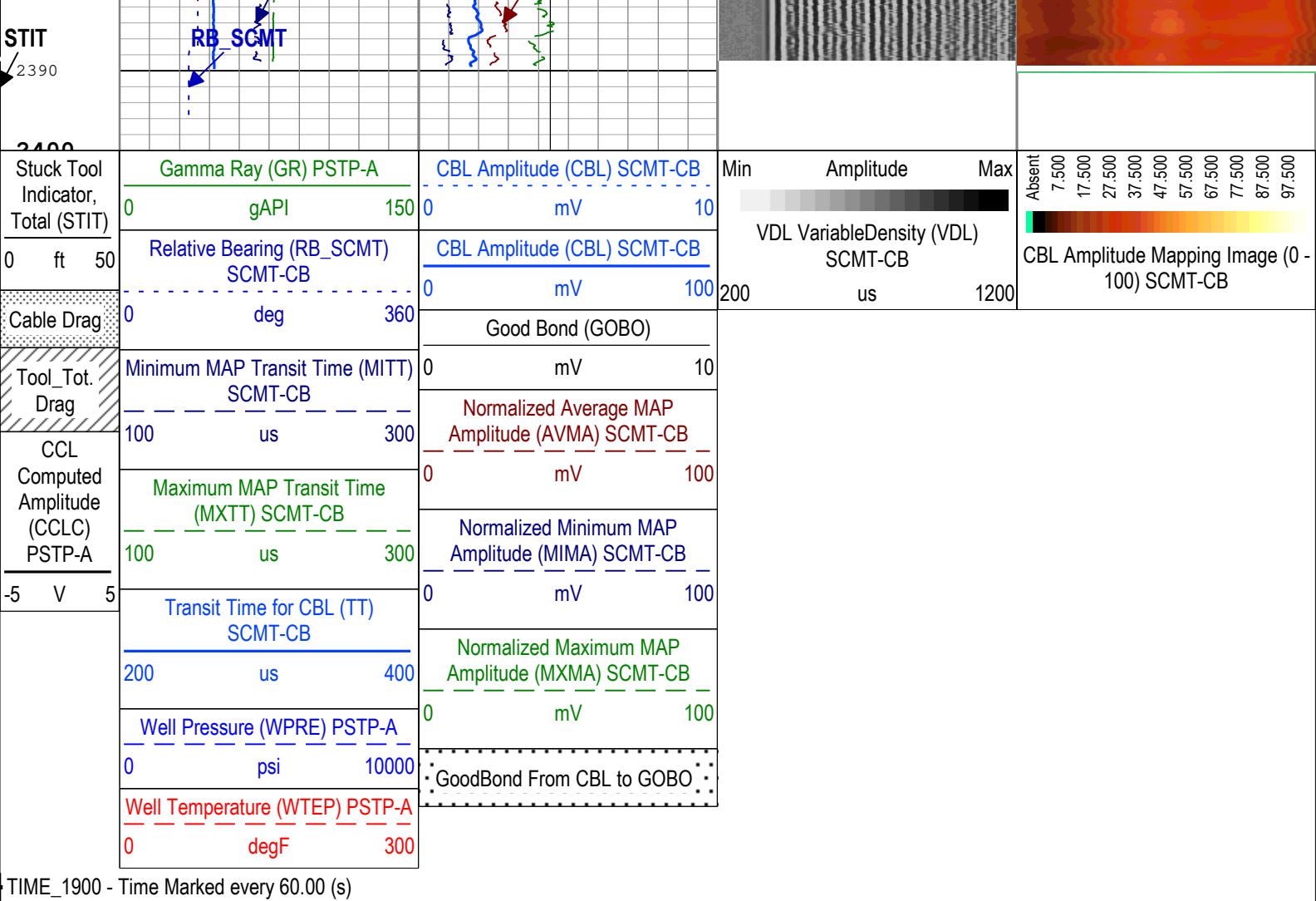
TIME\_1900 - Time Marked every 60.00 (s)

Gamma Ray (GR) PSTP-A								
0	gAPI	150	CBL Amplitude (CBL) SCMT-CB					
Relative Bearing (RB_SCMT) SCMT-CB			0 mV 10					
0	deg	360	CBL Amplitude (CBL) SCMT-CB					
Minimum MAP Transit Time (MITT) SCMT-CB			0 mV 100					
Good Bond (GOBO)								
Stuck Tool Indicator, Total (STIT)	100	us 300	0 mV 10					
Maximum MAP Transit Time (MXTT) SCMT-CB			Normalized Average MAP Amplitude (AVMA) SCMT-CB					
0 ft 50	100	us 300	0 mV 100					
Cable Drag			Normalized Minimum MAP Amplitude (MIMA) SCMT-CB					
Transit Time for CBL (TT) SCMT-CB			0 mV 100					
Tool_Tot. Drag	200	us 400						
Well Pressure (WPRE) PSTP-A			Normalized Maximum MAP Amplitude (MXMA) SCMT-CB					
CCL Computed Amplitude (CCLC) PSTP-A	0	psi 10000	0 mV 100					
Well Temperature (WTEP) PSTP-A			GoodBond From CBL to GOBO					
-5 V 5	0	degF 300						









Description: SCMT VDL Image   Format: Log ( SCMT\_VDL\_Image\_Repeat )   Index Scale: 5 in per 100 ft   Index Unit: ft   Index Type: Measured Depth  
Creation Date: 22-May-2019 09:26:23

Channel Processing Parameters				
Two: Parameters				
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	165.55	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	237.94	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	72	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	4.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-CB	179.64	us
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	11.85	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MMSA	MAP Minimum Sonic Amplitude	SCMT-CB	10.85	mV
MSA	Minimum Sonic Amplitude	SCMT-CB	2.19	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	2.19	mV
RUN_SNUM	Run Sequence Number	WSDRUN	2	

Depth Zone Parameters			
Parameter	Value	Start ( ft )	Stop ( ft )



All depth are actual.

## Two: Parameters

## Two

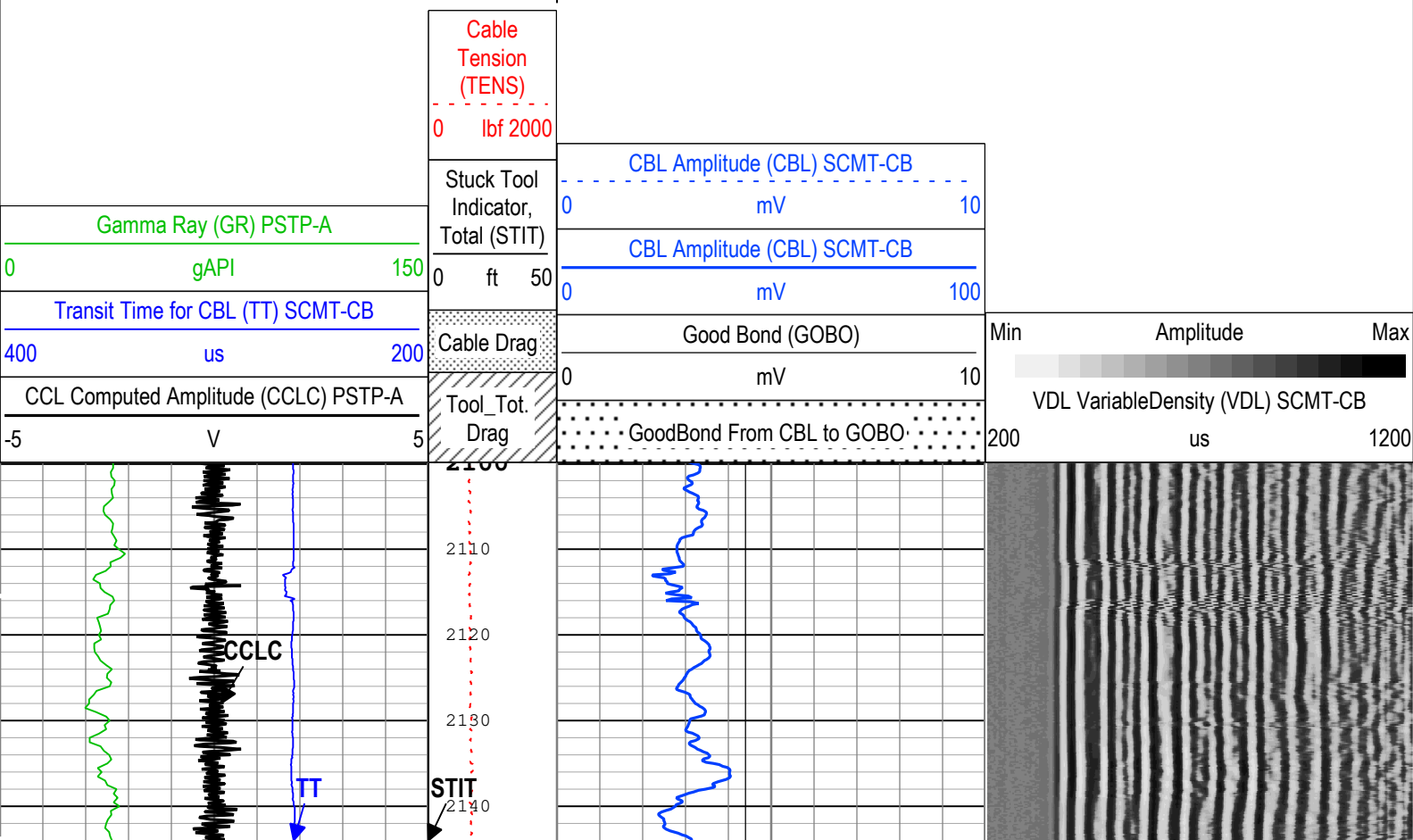
Acquisition System	Version
Maxwell 2019	9.0.106845.3100

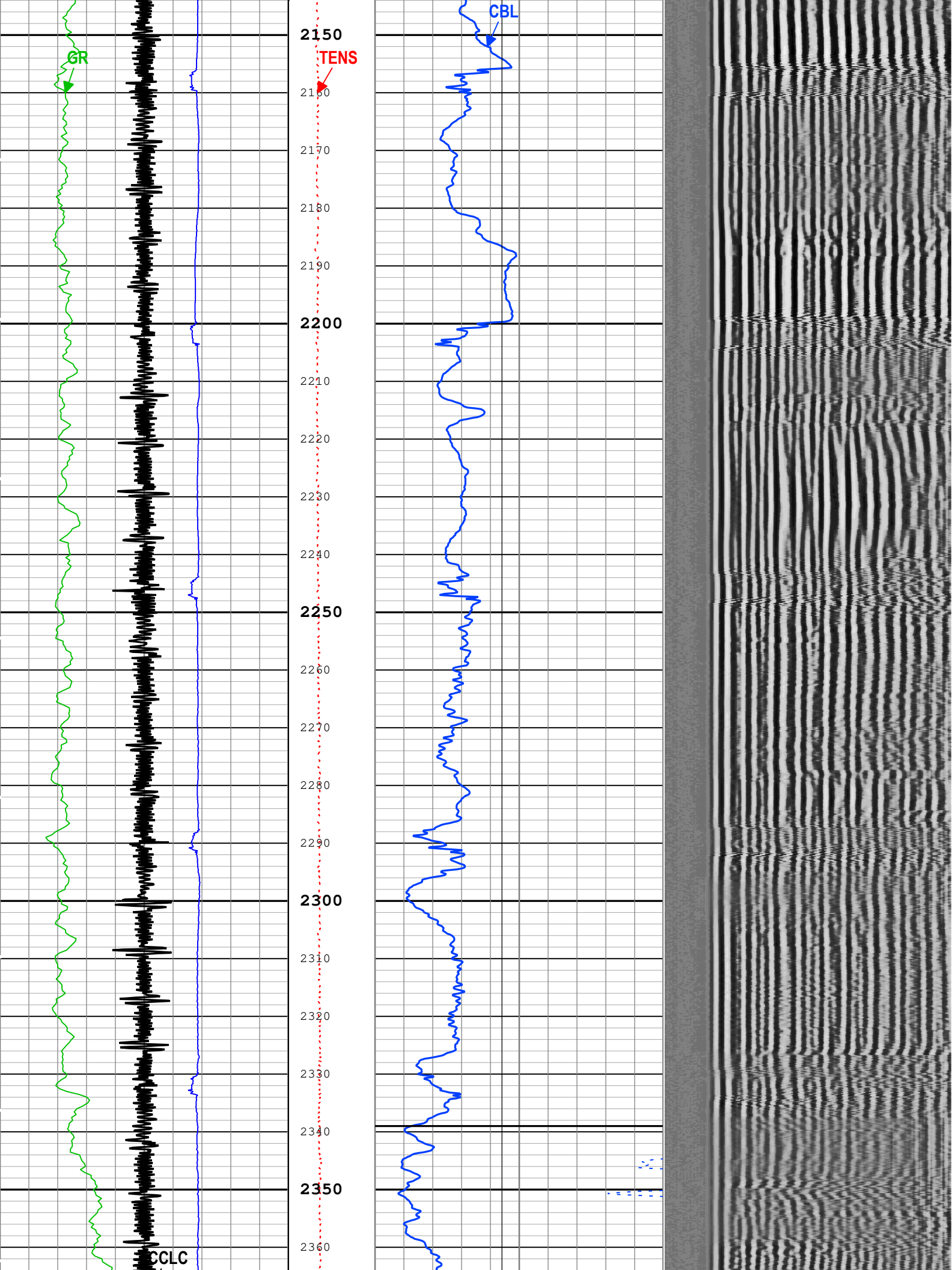
All depths are referenced to toolstring zero

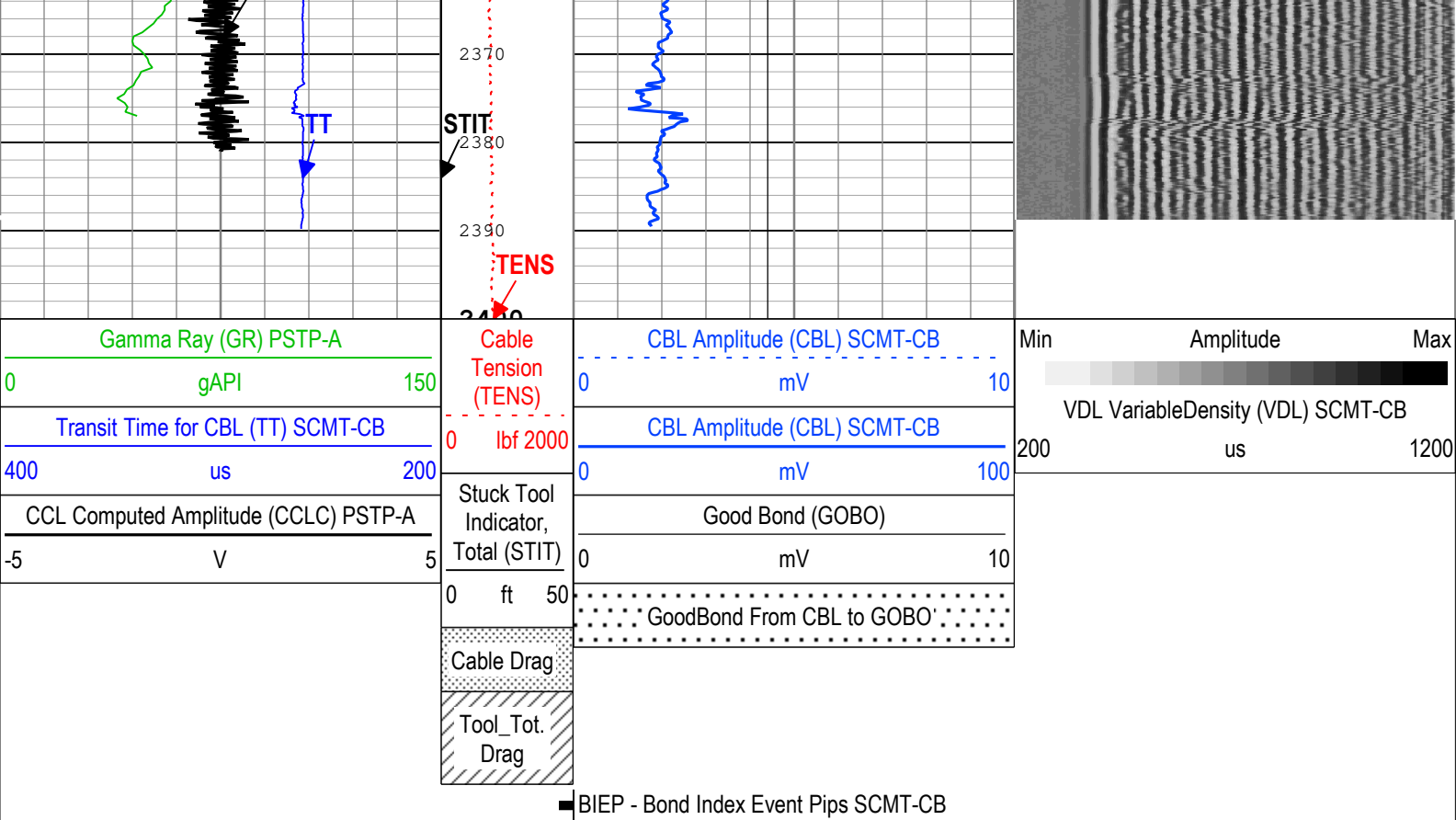
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TIME\_1900 - Time Marked every 60.00 (s)

■ BIEP - Bond Index Event Pips SCMT-CB







## Channel Processing Parameters

### Two: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	165.55	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	237.94	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	72	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	4.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTPE	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	11.85	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	2.19	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	2.19	mV
RUN_SNUM	Run Sequence Number	WSDRUN	2	

### Depth Zone Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
MCI	14.81	2100	2339
MCI	4.75	2339	2400

All depth are actual.

## Tool Control Parameters

### Two: Parameters



# SCMT Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	36 dB	

## Calibration Report

### SCMT-CB (Slim Cement Mapping Tool, 1-11/16 OD) Calibration - Run Two

Primary Equipment :		
Slim Cement Mapping Sonde	SCMS-CB	8258

### CBL and MAP Amplitude Normalization - Measurements

Master (Measured):	20:16:15 09-Oct-2018
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Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1350.000	1000.000	1179.675	1700.000	<div><div></div></div>
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	1218.098	1650.000	<div><div></div></div>
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	1093.785	1650.000	<div><div></div></div>
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	807.772	1650.000	<div><div></div></div>
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	882.819	1650.000	<div><div></div></div>
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	964.949	1650.000	<div><div></div></div>
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	1086.432	1650.000	<div><div></div></div>
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	1188.836	1650.000	<div><div></div></div>
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	1282.034	1650.000	<div><div></div></div>
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1350.000	1000.000	1178.190	1700.000	<div><div></div></div>
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	1054.282	1650.000	<div><div></div></div>
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	965.417	1650.000	<div><div></div></div>
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	760.428	1650.000	<div><div></div></div>
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	942.255	1650.000	<div><div></div></div>
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	1117.953	1650.000	<div><div></div></div>
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	1289.531	1650.000	<div><div></div></div>
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	1273.549	1650.000	<div><div></div></div>
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	1172.603	1650.000	<div><div></div></div>
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1350.000	1000.000	1177.369	1700.000	<div><div></div></div>
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	995.650	1650.000	<div><div></div></div>
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	998.660	1650.000	<div><div></div></div>
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	861.659	1650.000	<div><div></div></div>
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	1085.633	1650.000	<div><div></div></div>
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	1238.145	1650.000	<div><div></div></div>
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	1300.507	1650.000	<div><div></div></div>
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	1172.184	1650.000	<div><div></div></div>
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	1036.327	1650.000	<div><div></div></div>
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1350.000	1000.000	1174.563	1700.000	<div><div></div></div>

MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1078.665	1650.000	<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1119.866	1650.000	<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	955.836	1650.000	<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1120.067	1650.000	<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1171.587	1650.000	<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1166.519	1650.000	<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1067.010	1650.000	<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1043.943	1650.000	<div><div></div><div></div><div></div><div></div><div></div></div>

CBL and MAP Amplitude Normalization - Coefficients							
Master (Measured):		20:16:15 09-Oct-2018					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
Normalization Temperature in SFT Tube	degF	Master			64.00		<div><div></div><div></div><div></div><div></div><div></div></div>
CBL Correction Factor		Master	0		0.082		<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 1 Correction Factor		Master	0		0.110		<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 2 Correction Factor		Master	0		0.115		<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 3 Correction Factor		Master	0		0.142		<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 4 Correction Factor		Master	0		0.119		<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 5 Correction Factor		Master	0		0.107		<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 6 Correction Factor		Master	0		0.099		<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 7 Correction Factor		Master	0		0.102		<div><div></div><div></div><div></div><div></div><div></div></div>
MAP 8 Correction Factor		Master	0		0.106		<div><div></div><div></div><div></div><div></div><div></div></div>

CBL and MAP Amplitude Adjustment - Measurements							
Before (Manual Entry):		17:51:24 21-May-2019					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
CBL Amplitude - 0	mV	Before	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Average MAP Amplitude (Fluid Compensated) - 0	mV	Before	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Measurement Depth - 0	ft	Before	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
CBL and MAP Amplitude Adjustment - Coefficients							
Before (Manual Entry):		17:51:24 21-May-2019					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
CBL Adjustment Factor		Before			0.961		<div><div></div><div></div><div></div><div></div><div></div></div>
CBL LQC Reference Amplitude in Free Pipe	mV	Before			72.00		<div><div></div><div></div><div></div><div></div><div></div></div>
MAP Adjustment Factor		Before			0.621		<div><div></div><div></div><div></div><div></div><div></div></div>
Depth of Before Calibration	ft	Before			476.82		<div><div></div><div></div><div></div><div></div><div></div></div>

PSTP-A (PSP Telemetry Platform A - Sapphire) Calibration - Run Two			
Primary Equipment :			
PBMS-A	PBMS-A	1925	
Calibration Parameter :			
JIG-BKGD			

PBMS Well Temp Master Calibration						
Master (EEPROM):		00:00:00 22-Oct-2018				
PBMS_RTD_THERM (Master)		RTD Coefficients				
	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tt**0	-410.1011	188.1116	-36.84356	7.122567	-0.4733946	0

PBMS Gamma Ray Master Calibration	
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Master (EEPROM): 00:00:00 07-Mar-2003		
PBMS_GR_MODEL GR Coefficients (Master)		
	Rt**0	Rt**1
Rt**0	2000	4740

PBMS A Reference Clock Master Calibration						
Master (EEPROM): 00:00:00 22-Oct-2018						
PBMS_REF_CLOCK PBMS A Clock Coefficients (Master)						
	Temp**0	Temp**1	Temp**2	Temp**3	Temp**4	Temp**5
Temp**0	-53.18935	-7.201934	-0.02214573	0.0001183733	4.091469E-06	0

PBMS A Sapphire Master Calibration						
Master (EEPROM): 00:00:00 22-Oct-2018						
PBMS_P_GAUGE_PRES Sapphire Pressure Model Coefficients (Master)						
	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tp**0	-25691.09	17029.96	-5075.791	726.4449	-40.75964	0
Tp**1	19132.39	-12381.02	3822.557	-563.1737	32.42202	0
Tp**2	-179.7185	65.96684	-6.392941	0	0	0
Tp**3	3.901225	-0.8302976	0	0	0	0
Tp**4	0	0	0	0	0	0
Tp**5	0	0	0	0	0	0
PBMS_P_GAUGE_TEMP Sapphire Temperature Model Coefficients (Master)						
	Tp**0	Tp**1	Tp**2	Tp**3	Tp**4	Tp**5
Tt**0	2139.044	0.9065338	-1.614862	0.4019501	-0.0426815	0
Tt**1	-1249.353	0.4641727	0.3407869	-0.06403436	0.007093906	0
Tt**2	256.6918	-0.2288171	-0.01679745	0	0	0
Tt**3	-18.59611	0.0234225	0	0	0	0
Tt**4	0	0	0	0	0	0
Tt**5	0	0	0	0	0	0



Company:	Crestone Peak Resources and Operating LLC	Schlumberger
Well:	Echeverria 2I-2H-D267	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
Slim Cement Mapping Tool		
Cement Evaluation		
Gamma Ray - CCL Log		