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| <ul style="list-style-type: none"> 8. Two Repeat Pass <ul style="list-style-type: none"> 8.1 Integration Summary 8.2 Software Version 8.3 Composite Summary 8.4 Log (Sonic CBL with VDL) 8.5 Parameter Listing 9. Two Repeat Pass | |
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Remarks and Equipment Summary	

[illegible]

Depth Summary

Depth Measuring Device	Two		
Type	IDW-1A		

Type	IDW-3A
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.
Reference Log Run Number	One	Z-chart used as secondary depth control
Reference Log Date	21-May-2019	Depth correlated to Isolation Scanner Log

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	76.26 ft	7247.19 ft	21-May-2019 7:11:31 PM	21-May-2019 11:22:07 PM	ON	4.74 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources and Operating LLC

Well:Echeverria 2K-2H-D267

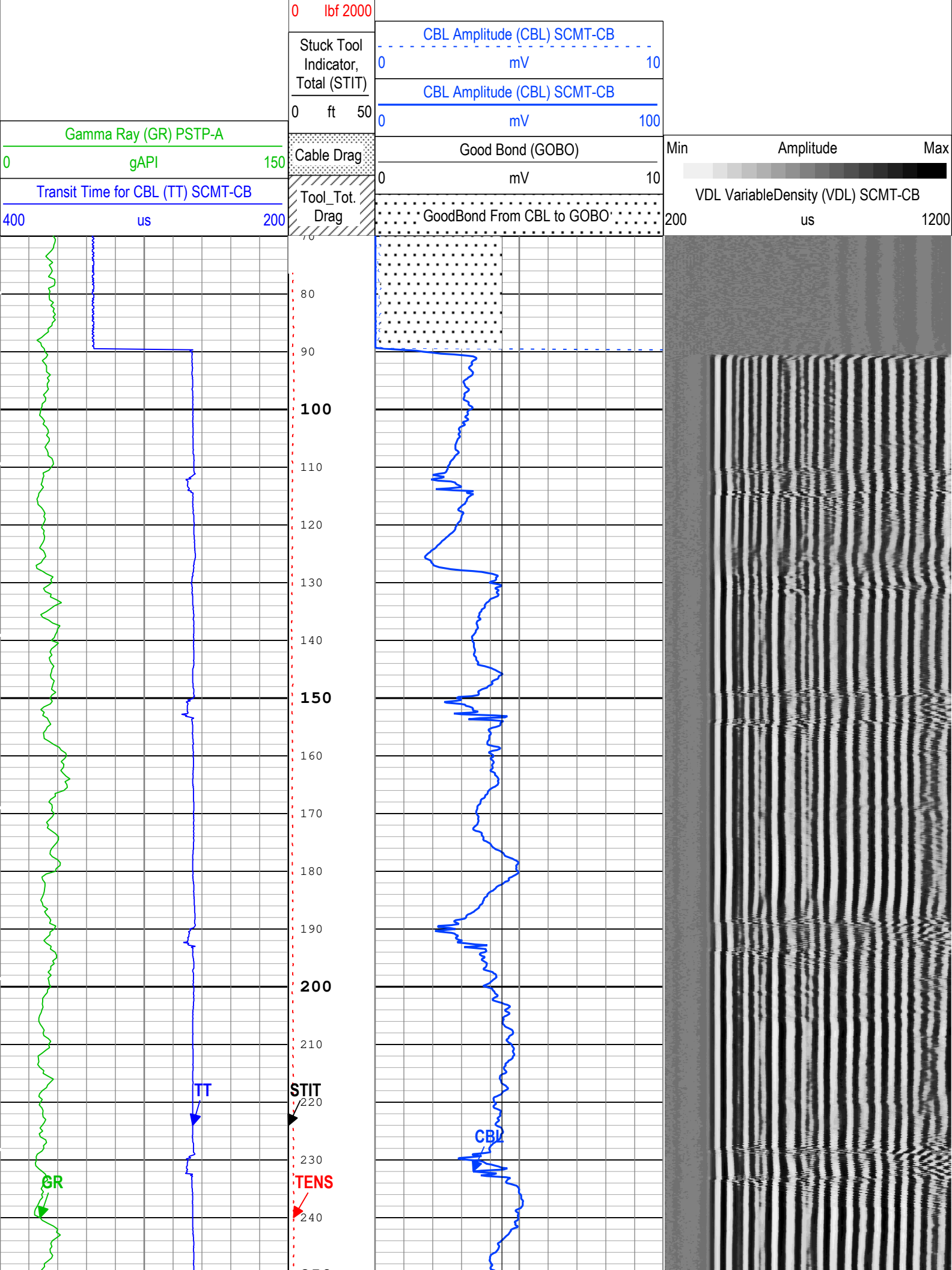
Two: Log[4]:Up:S003

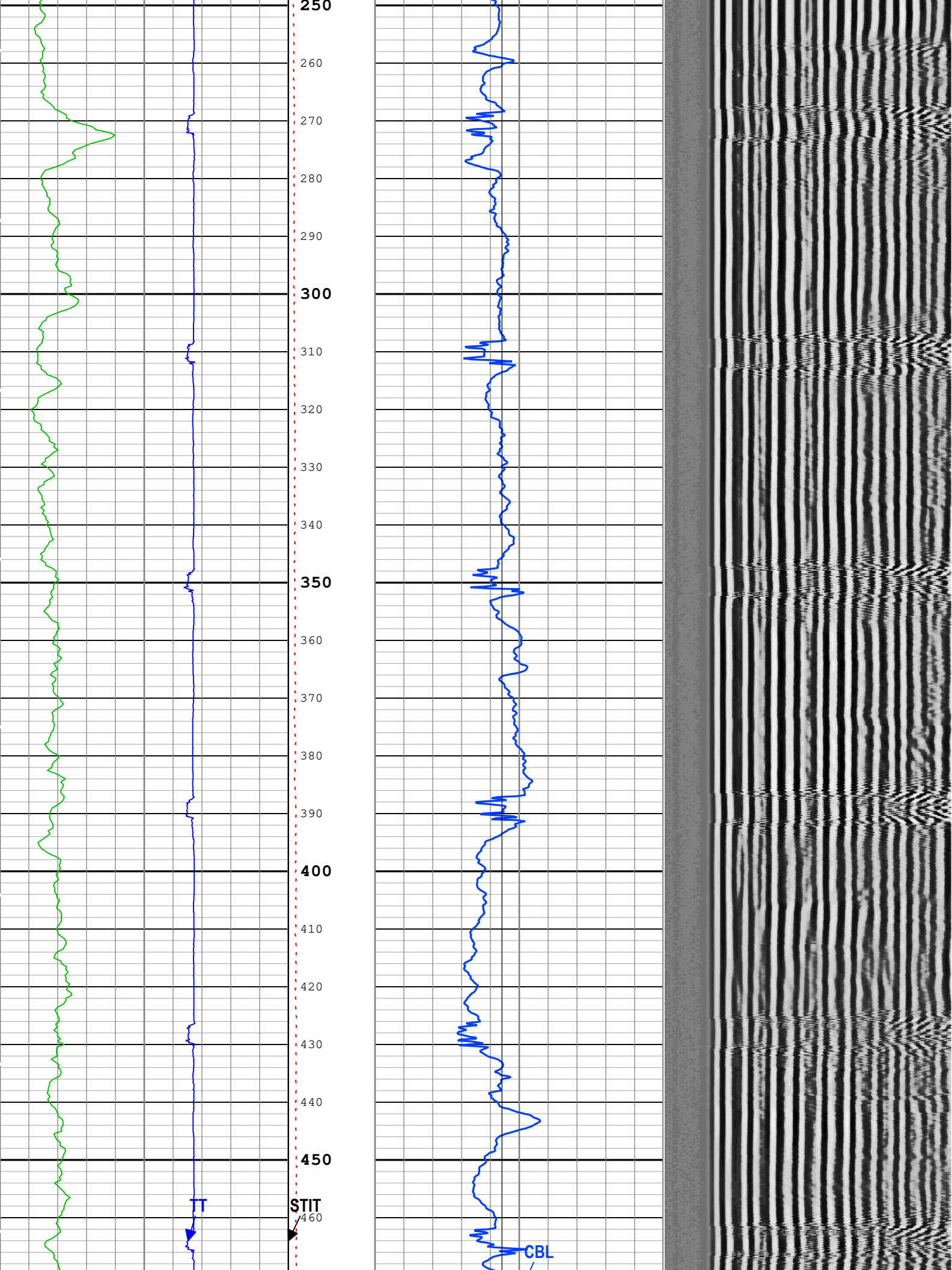
Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 23-May-2019 13:06:32

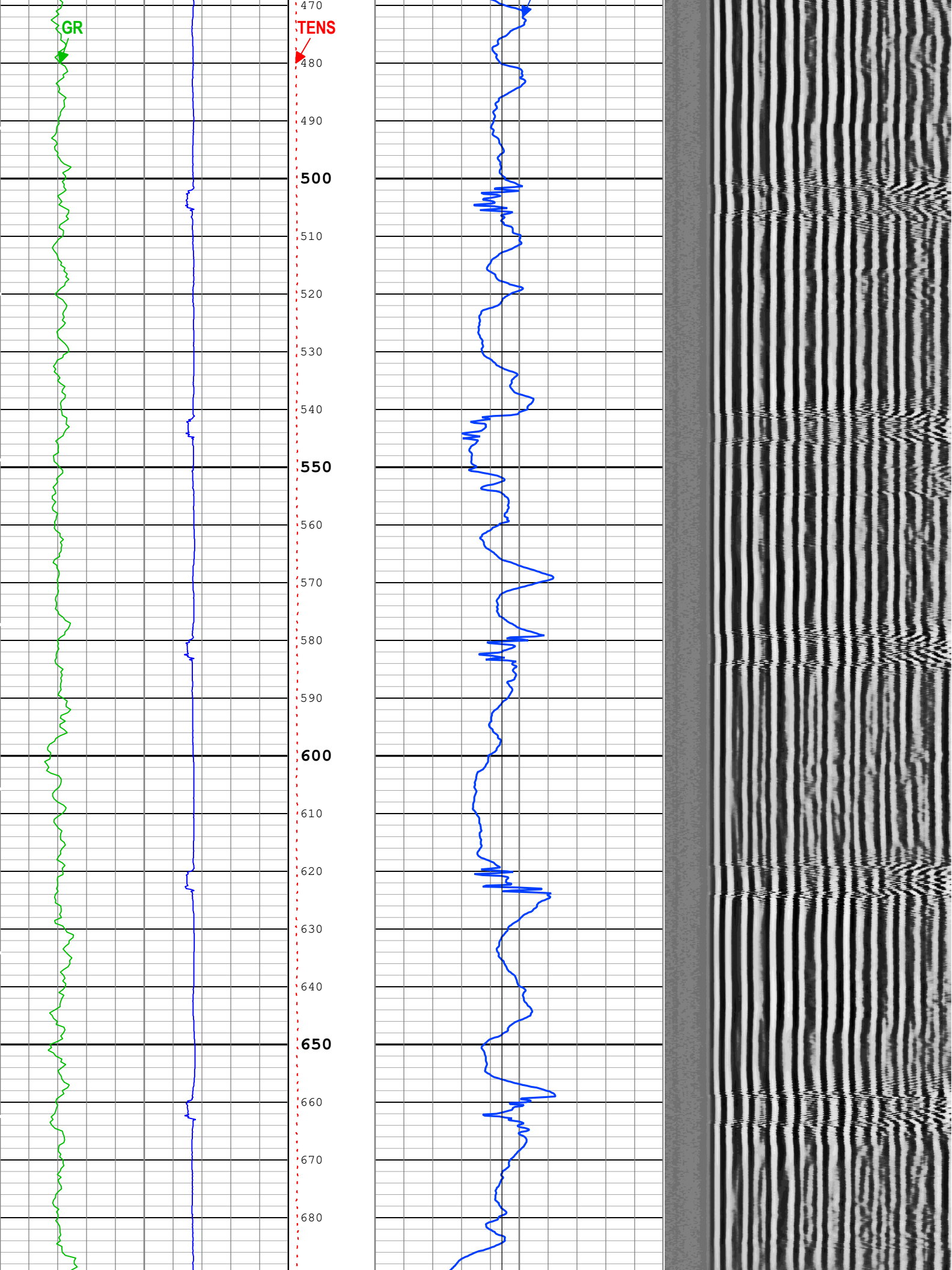
TIME 1900 - Time Marked every 60.00 (s)

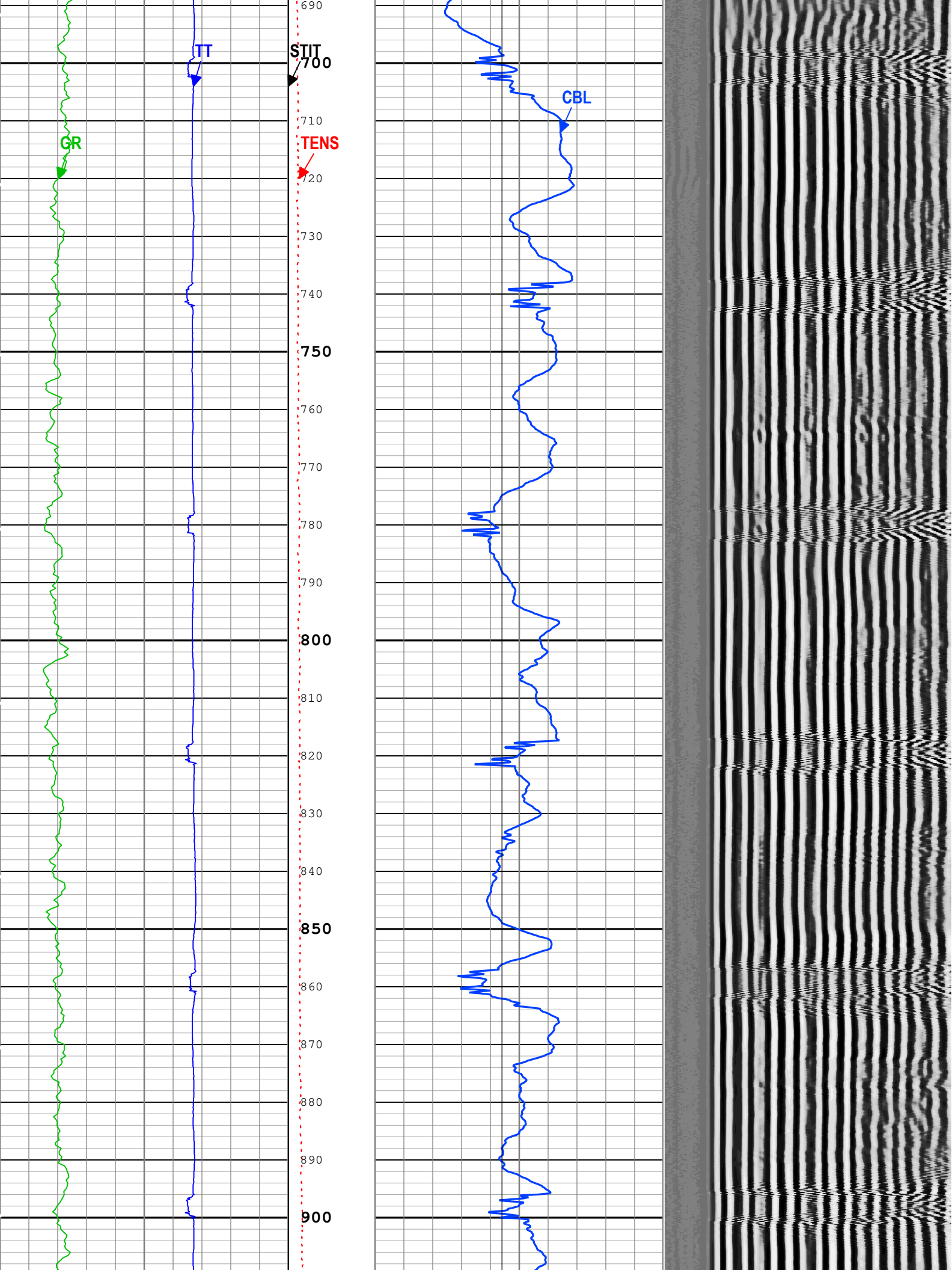
■ BIEP - Bond Index Event Pips SCMT-CB

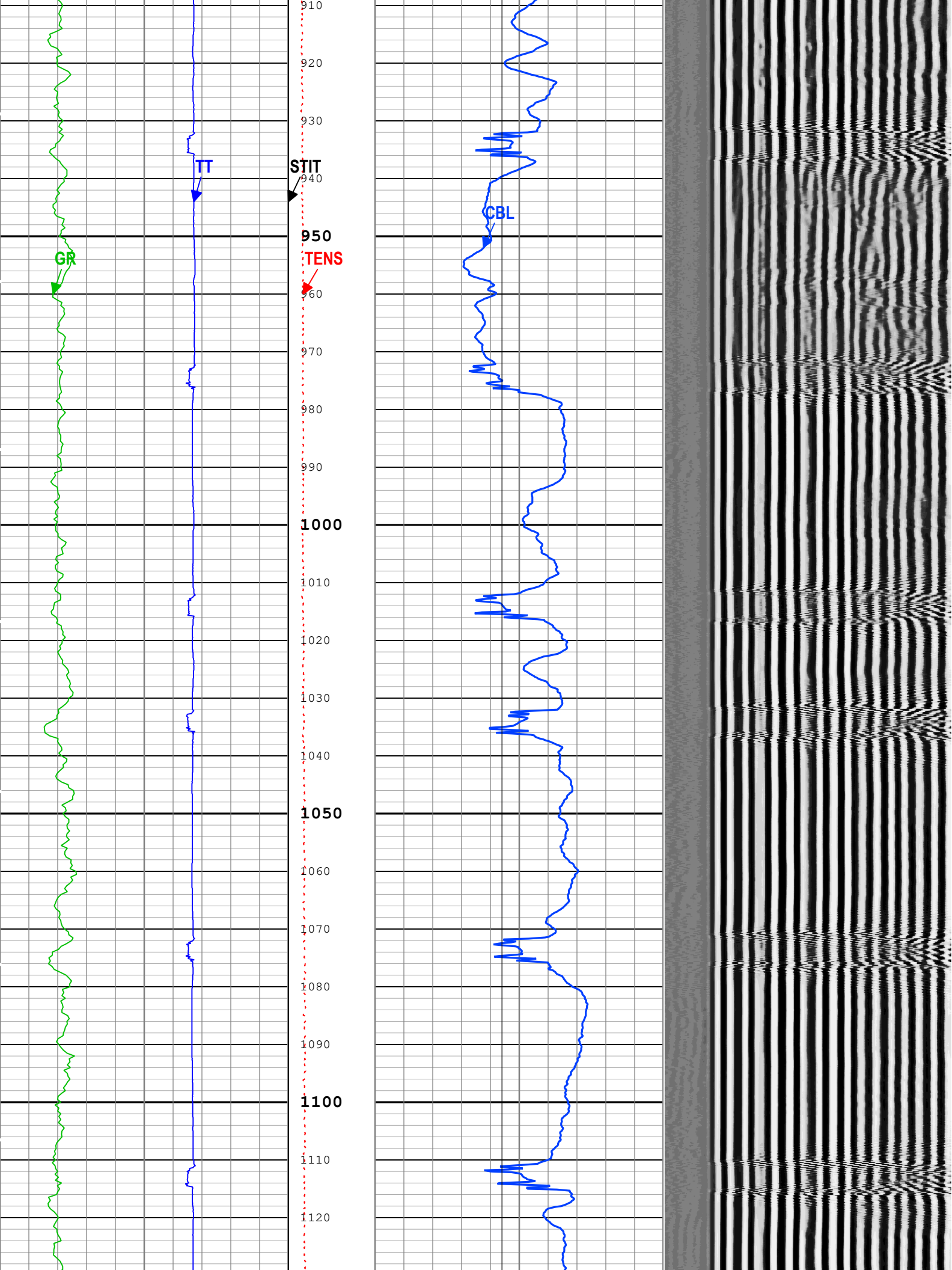
Cable
Tension
(TENS)

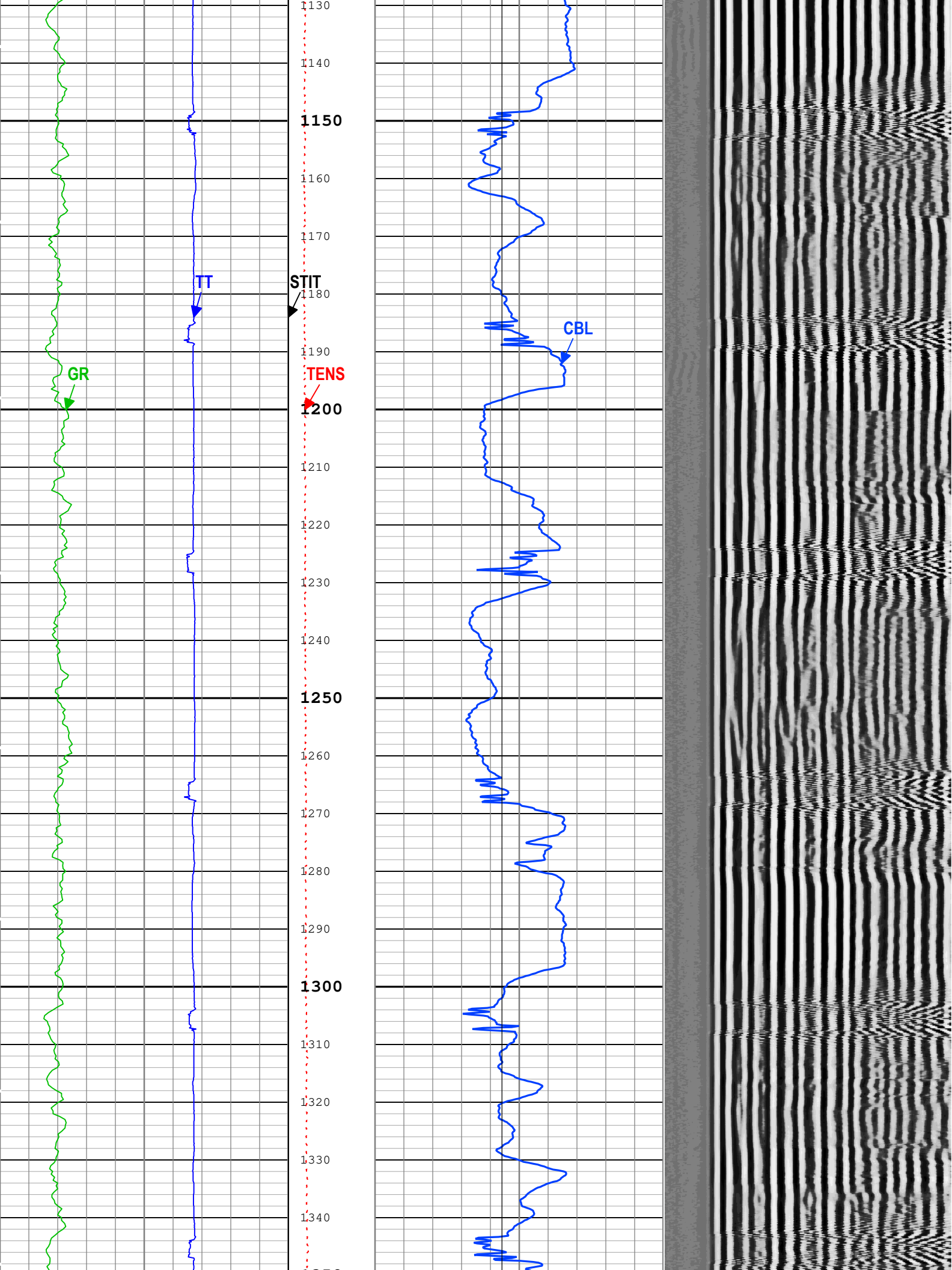


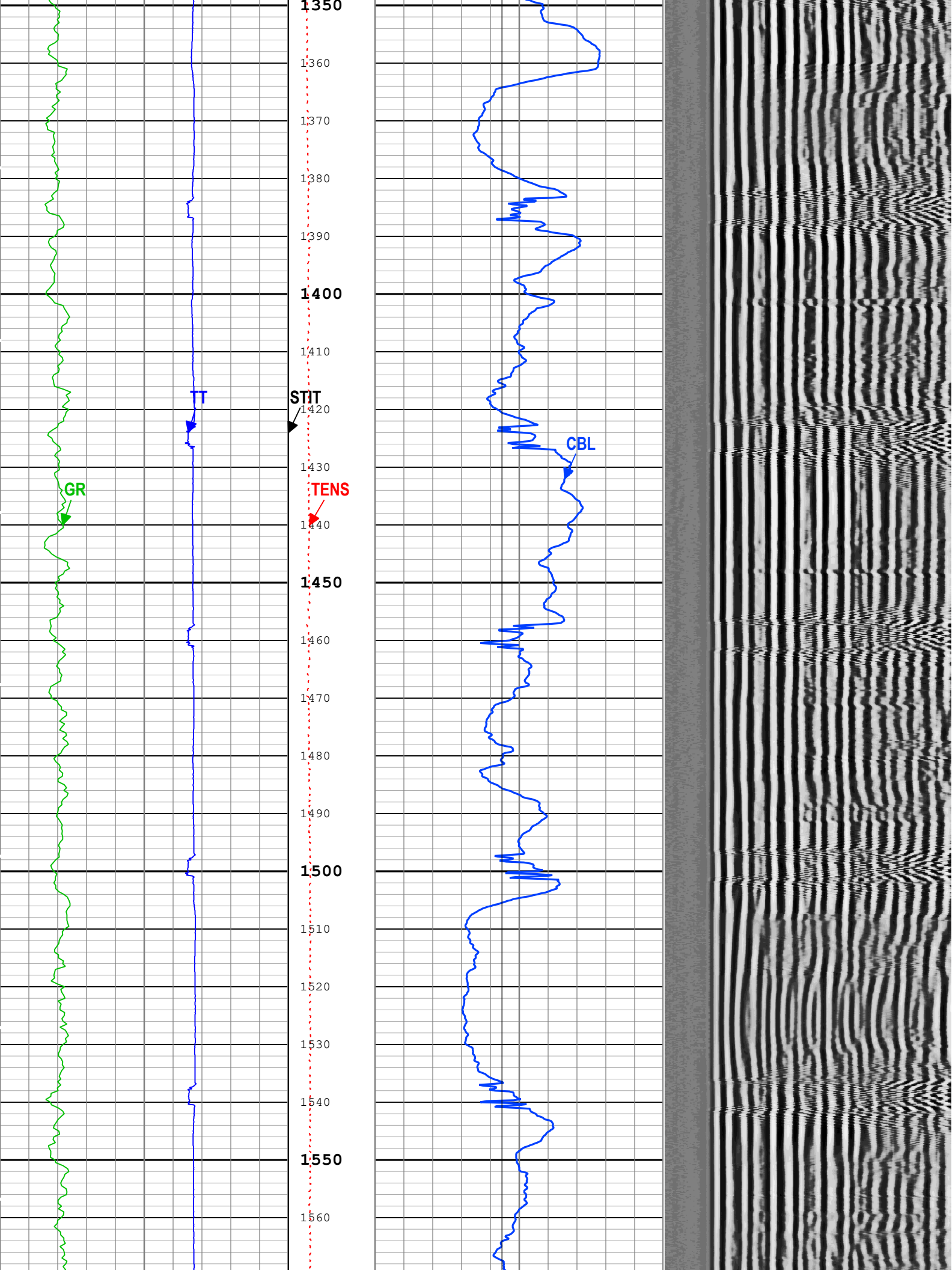


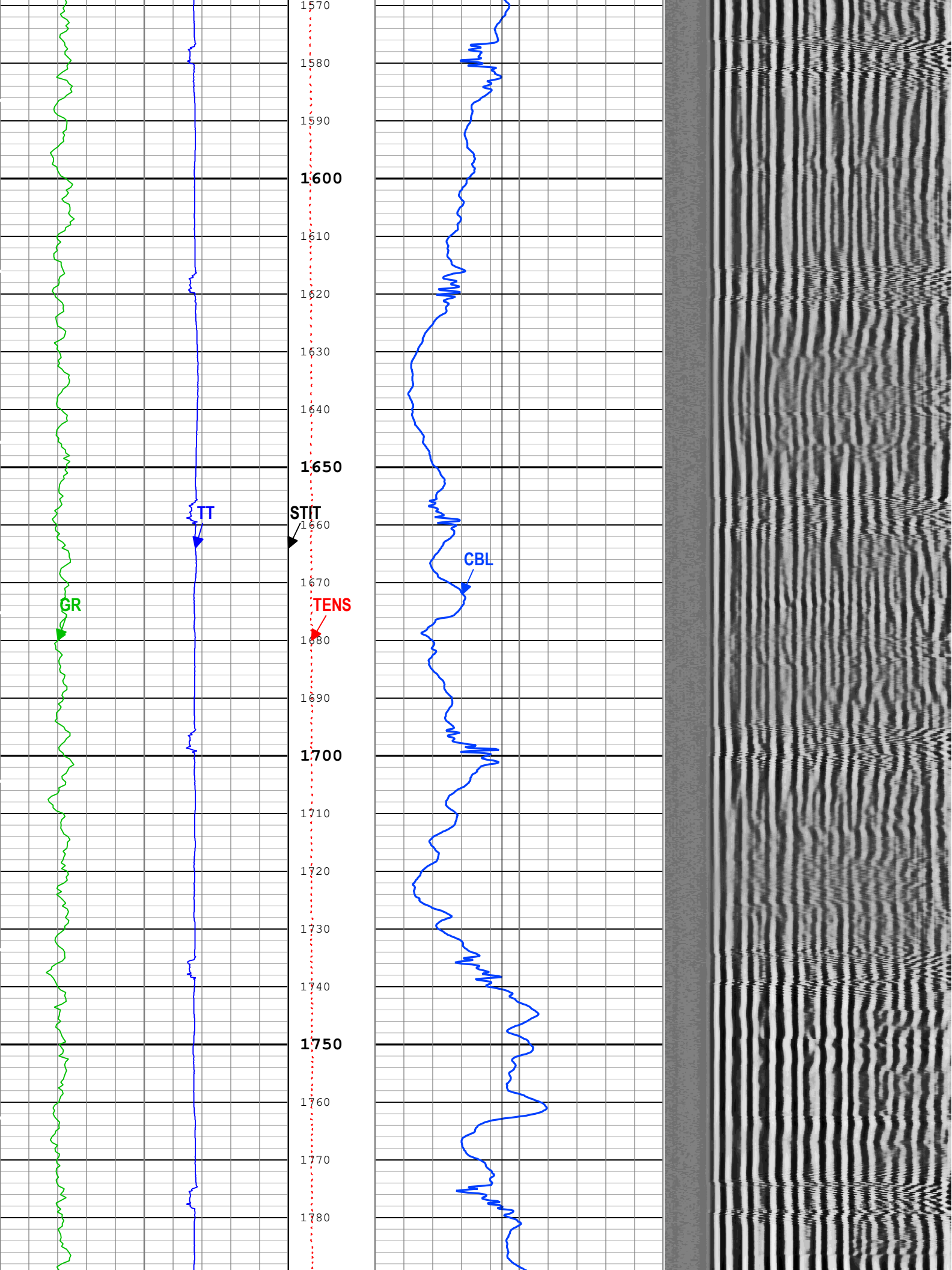


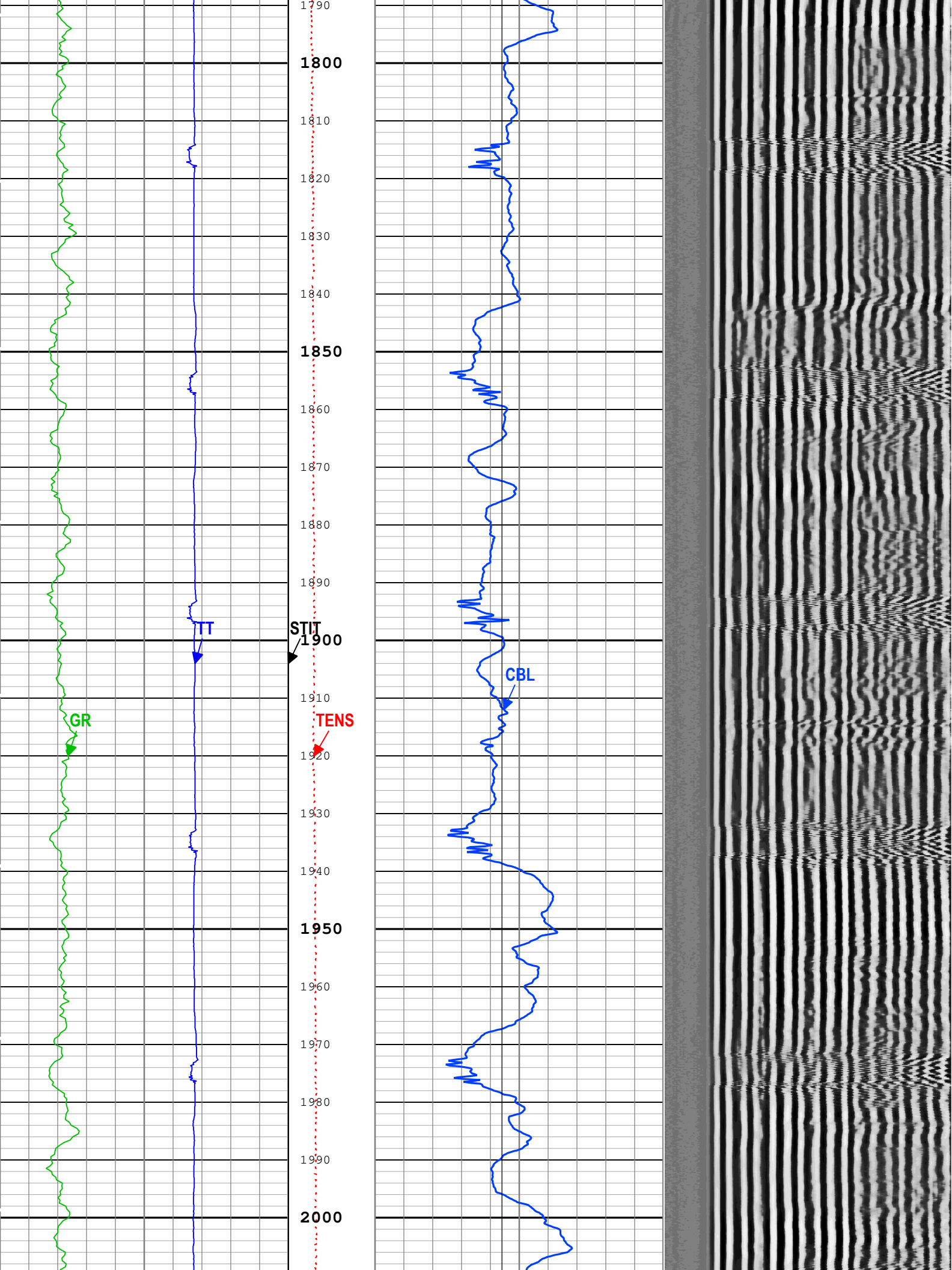


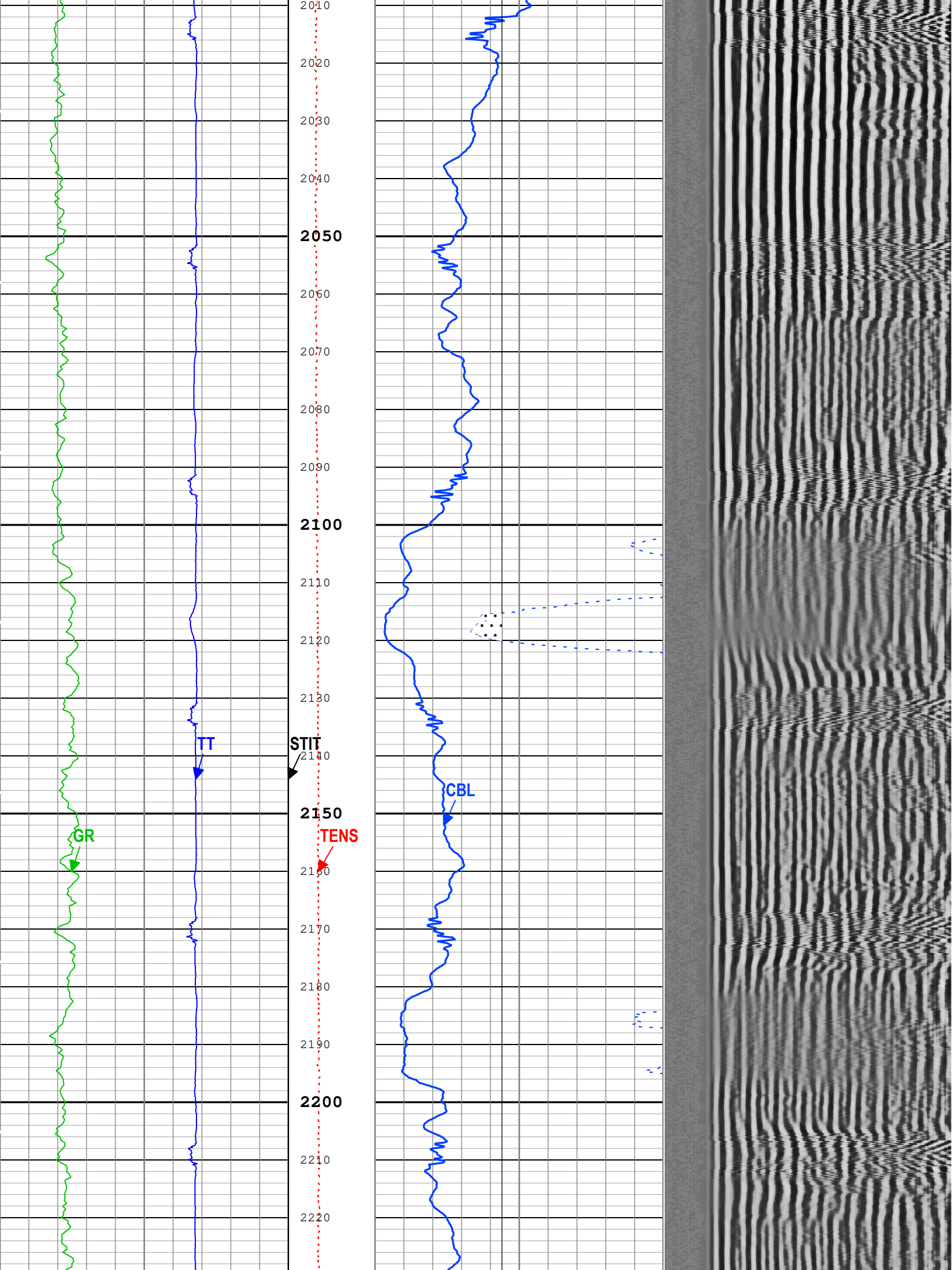


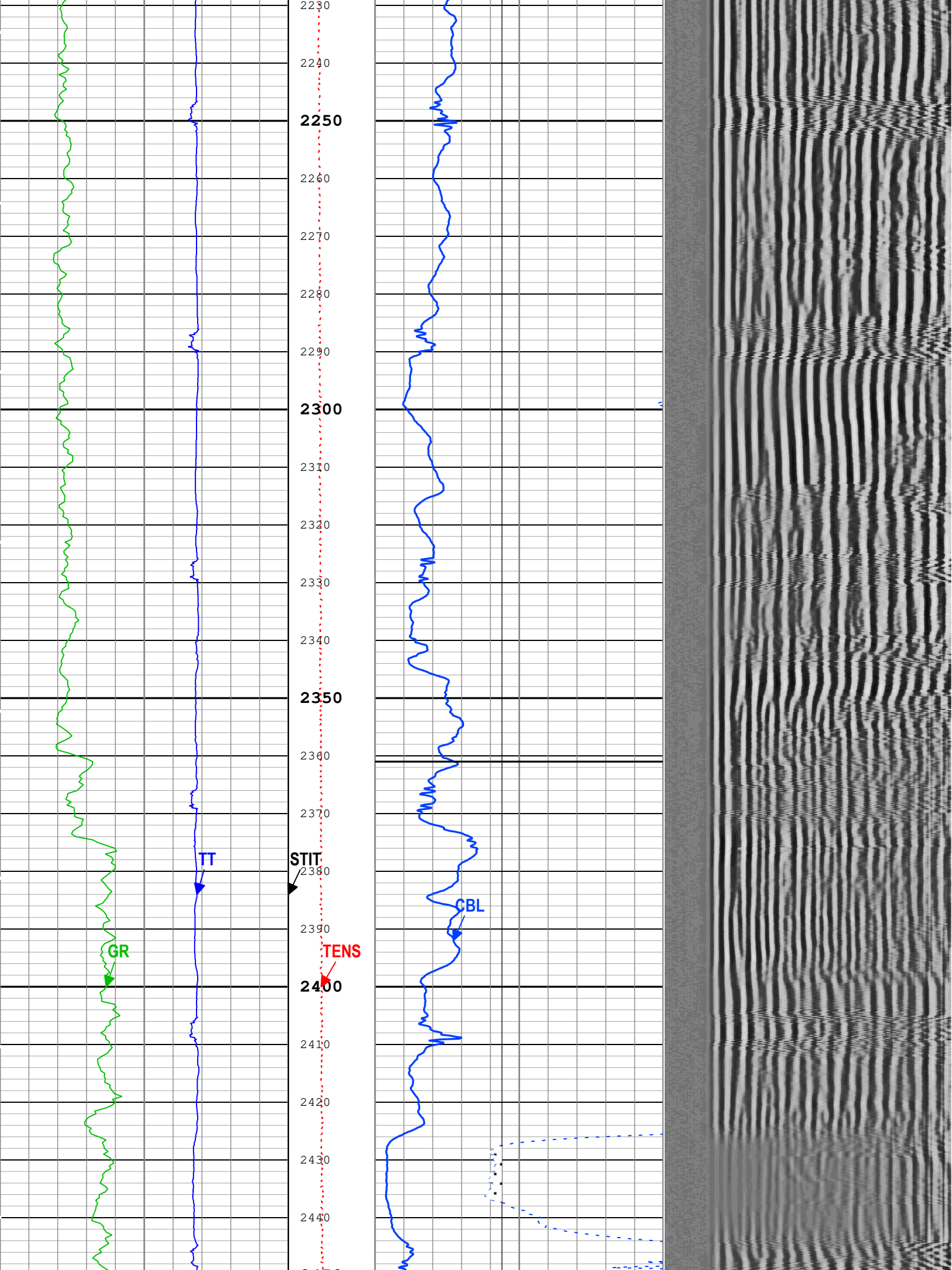


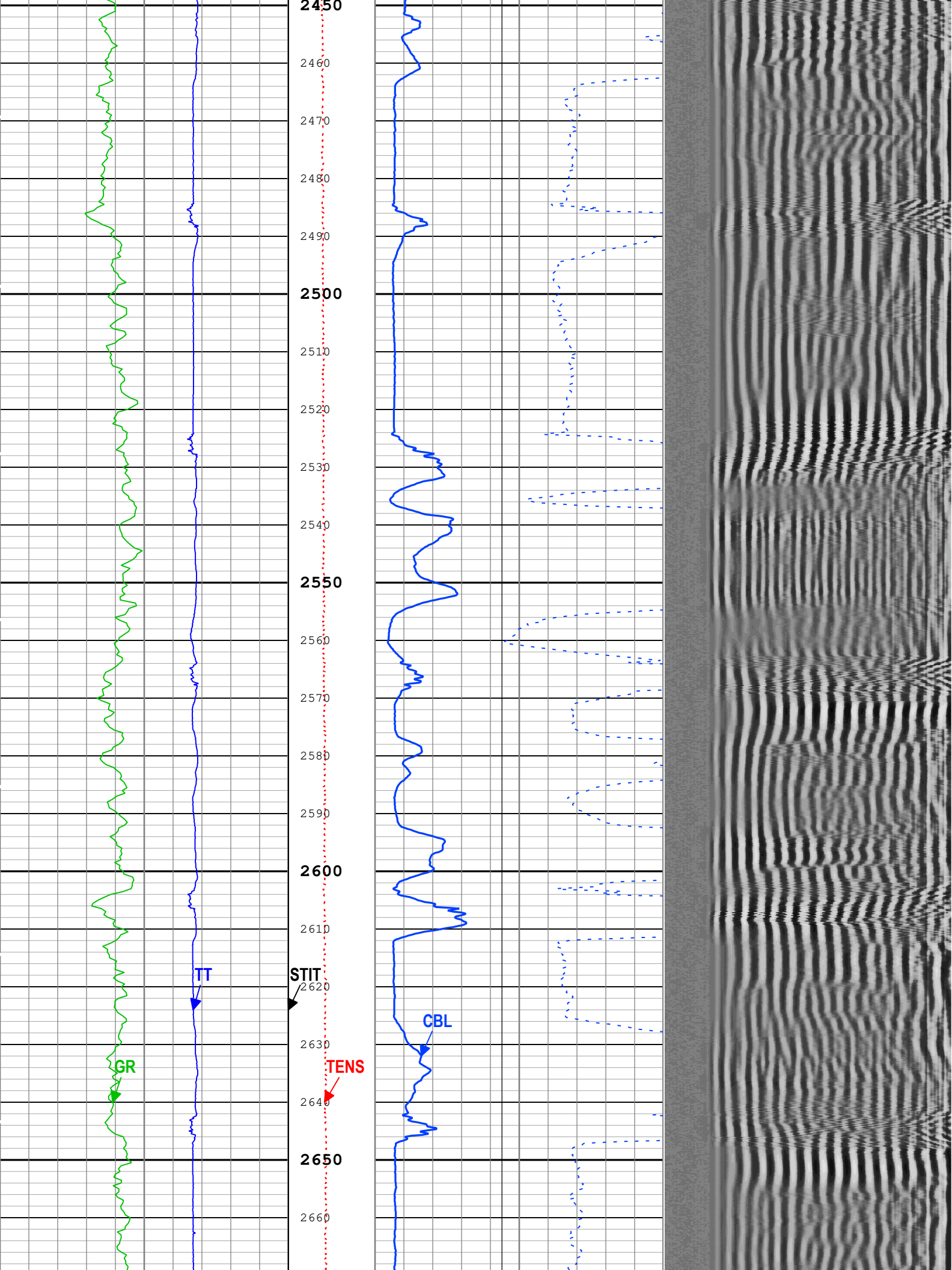


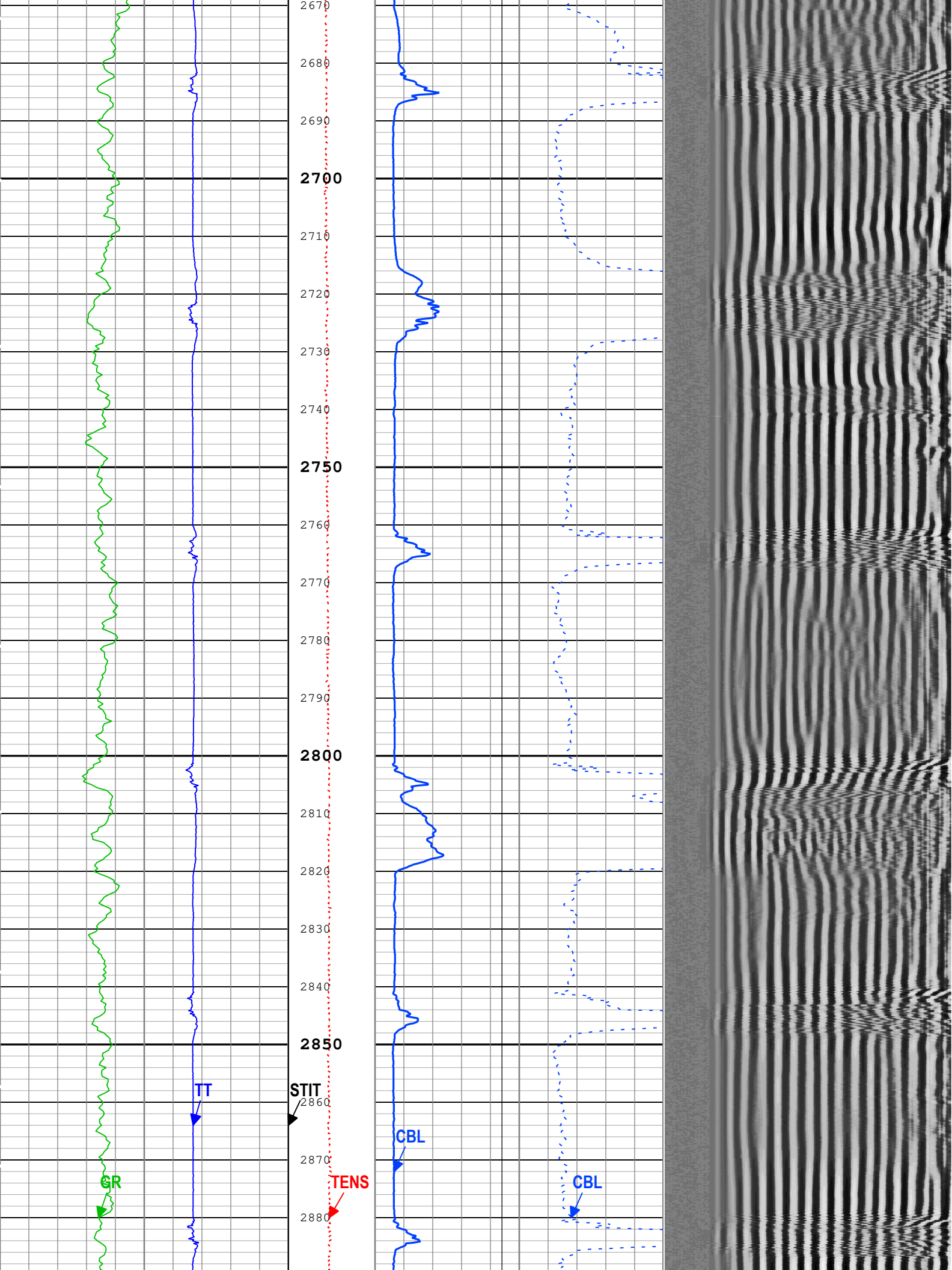


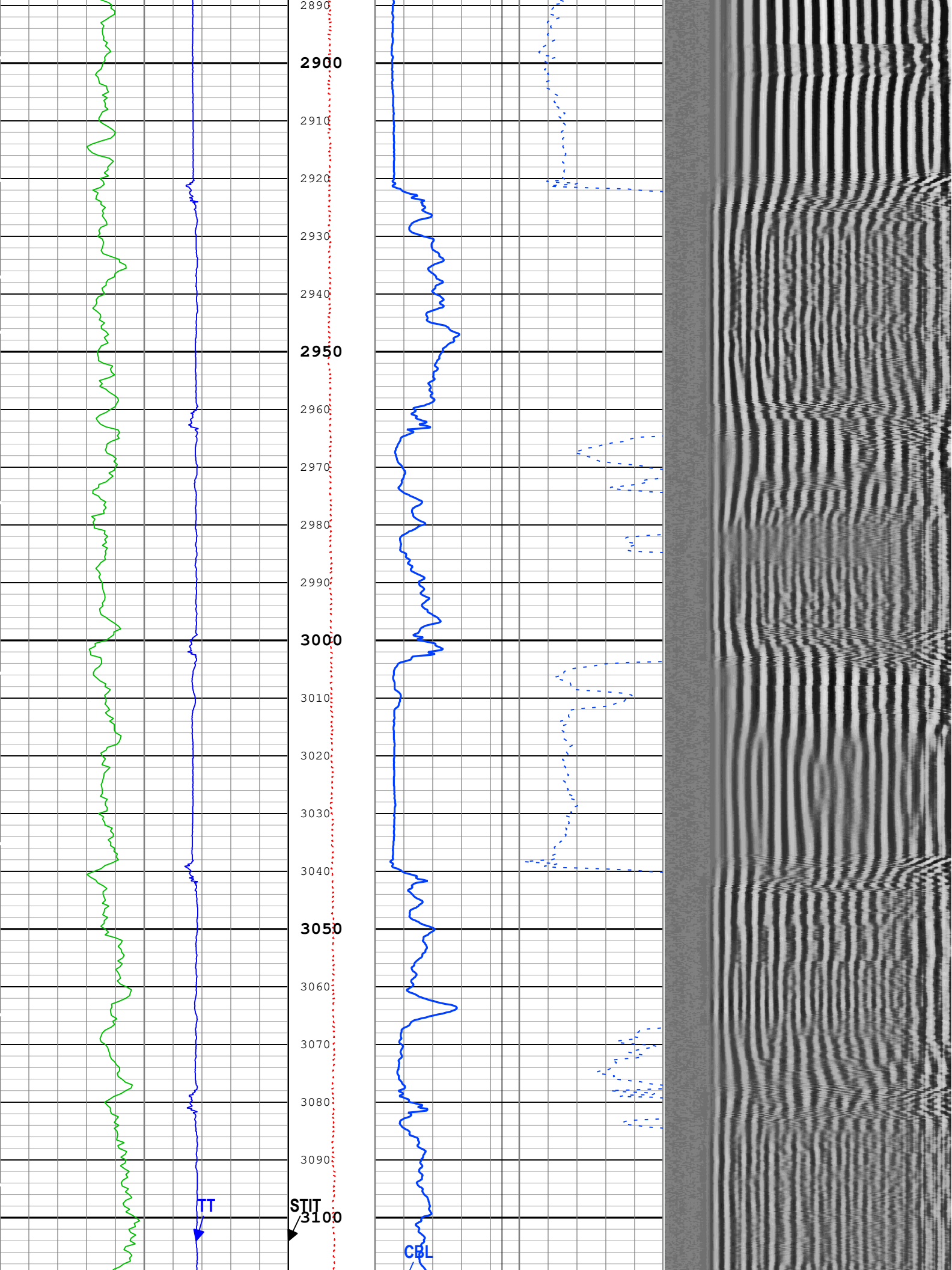


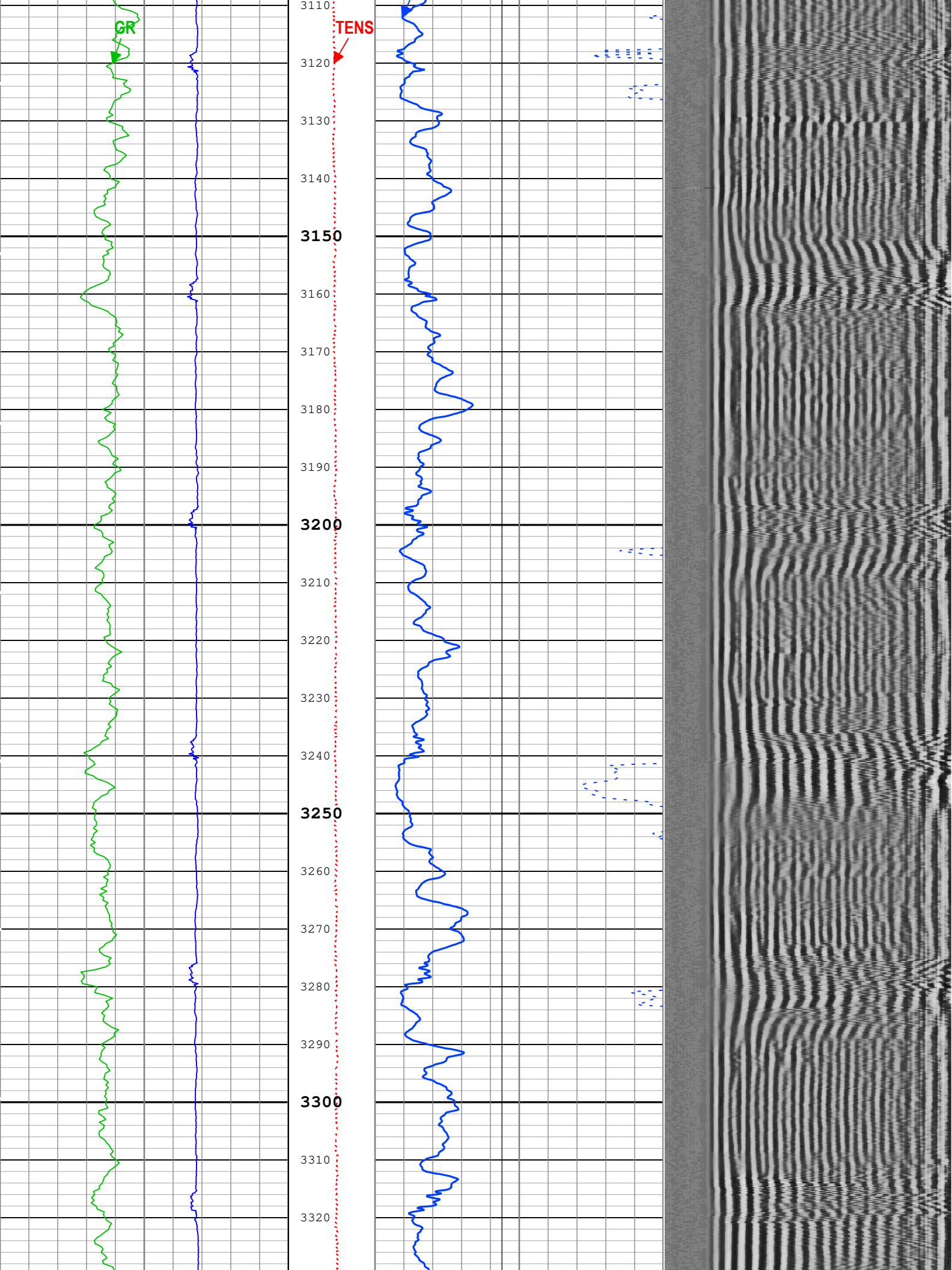


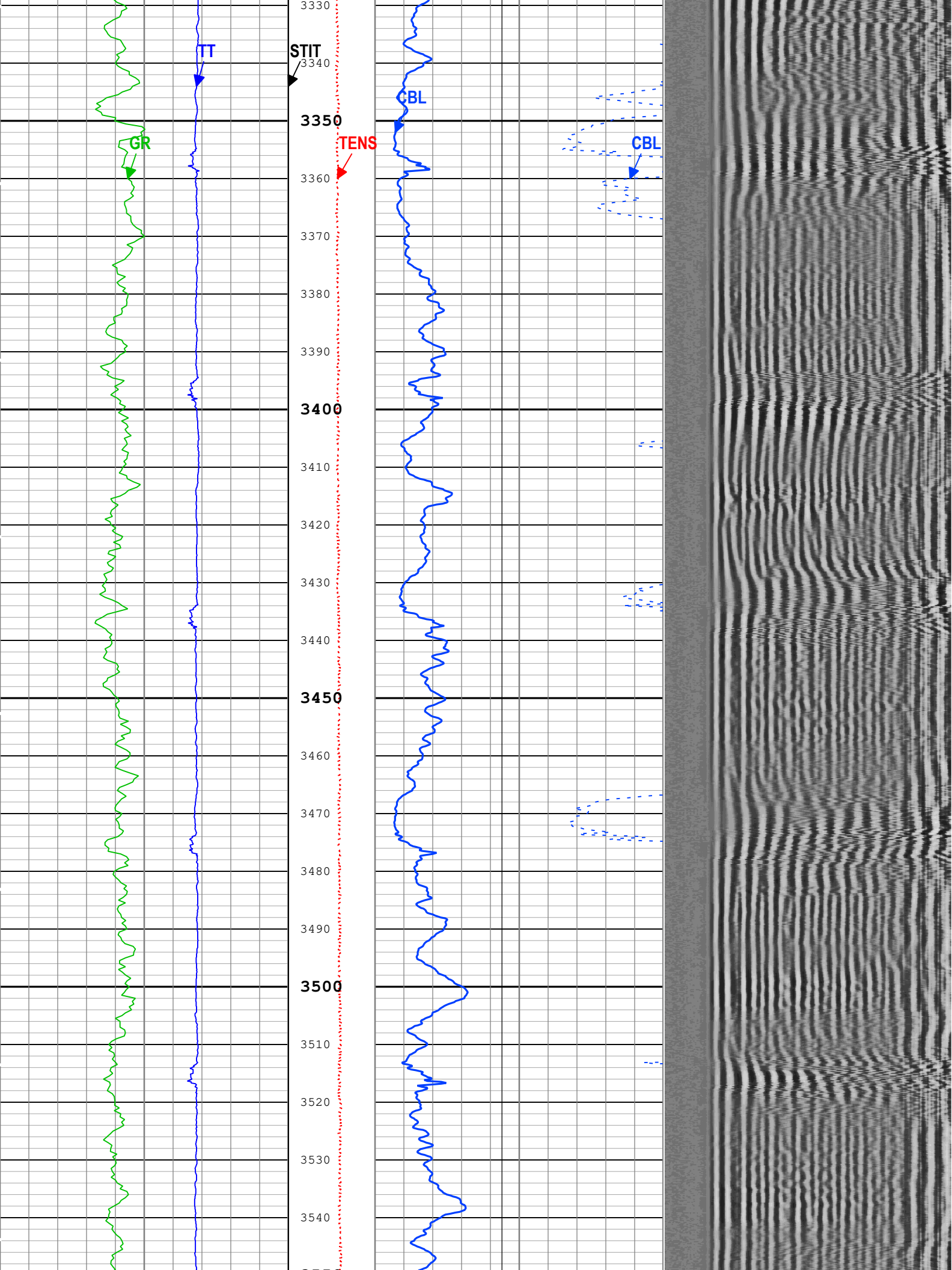


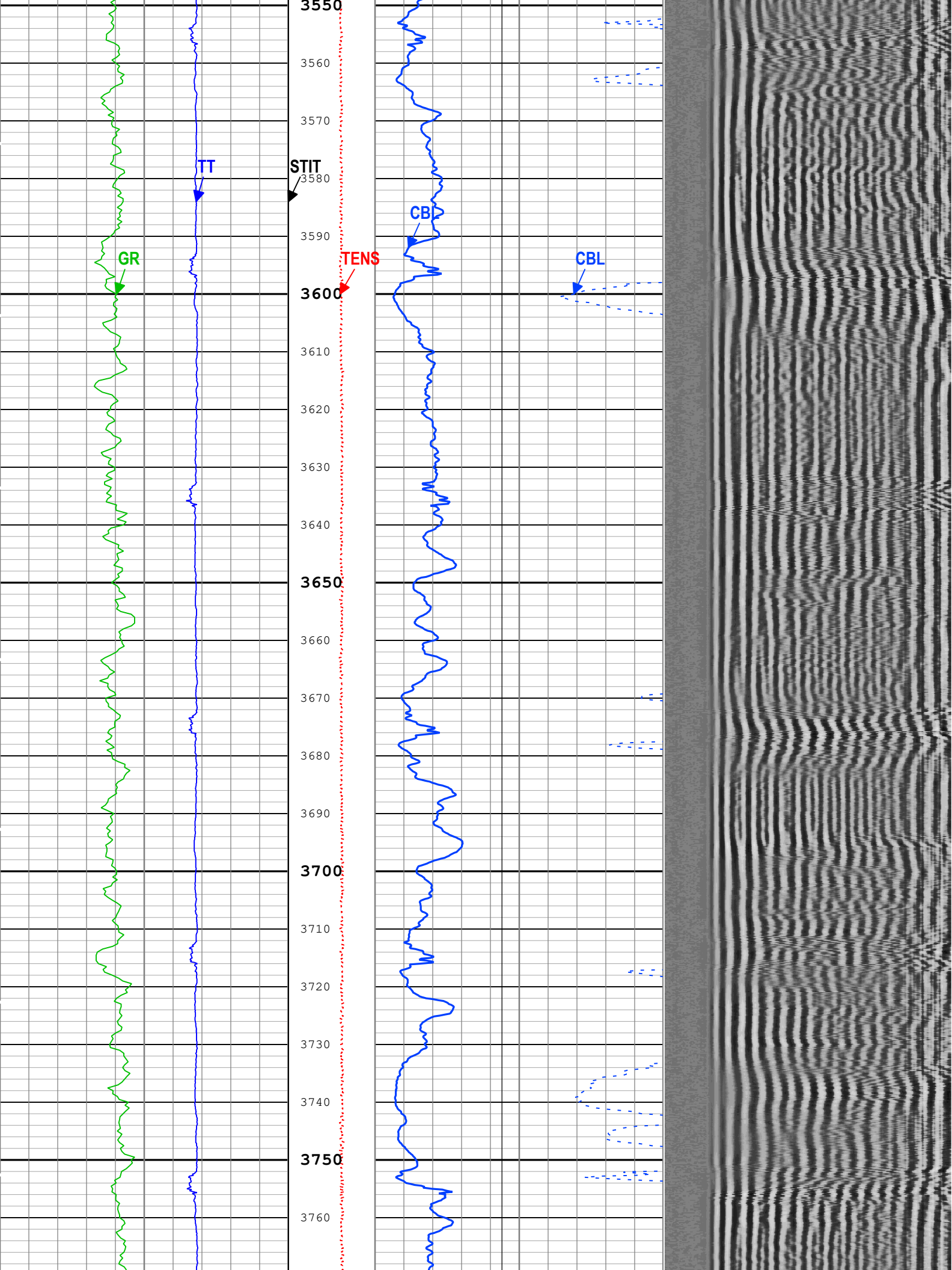


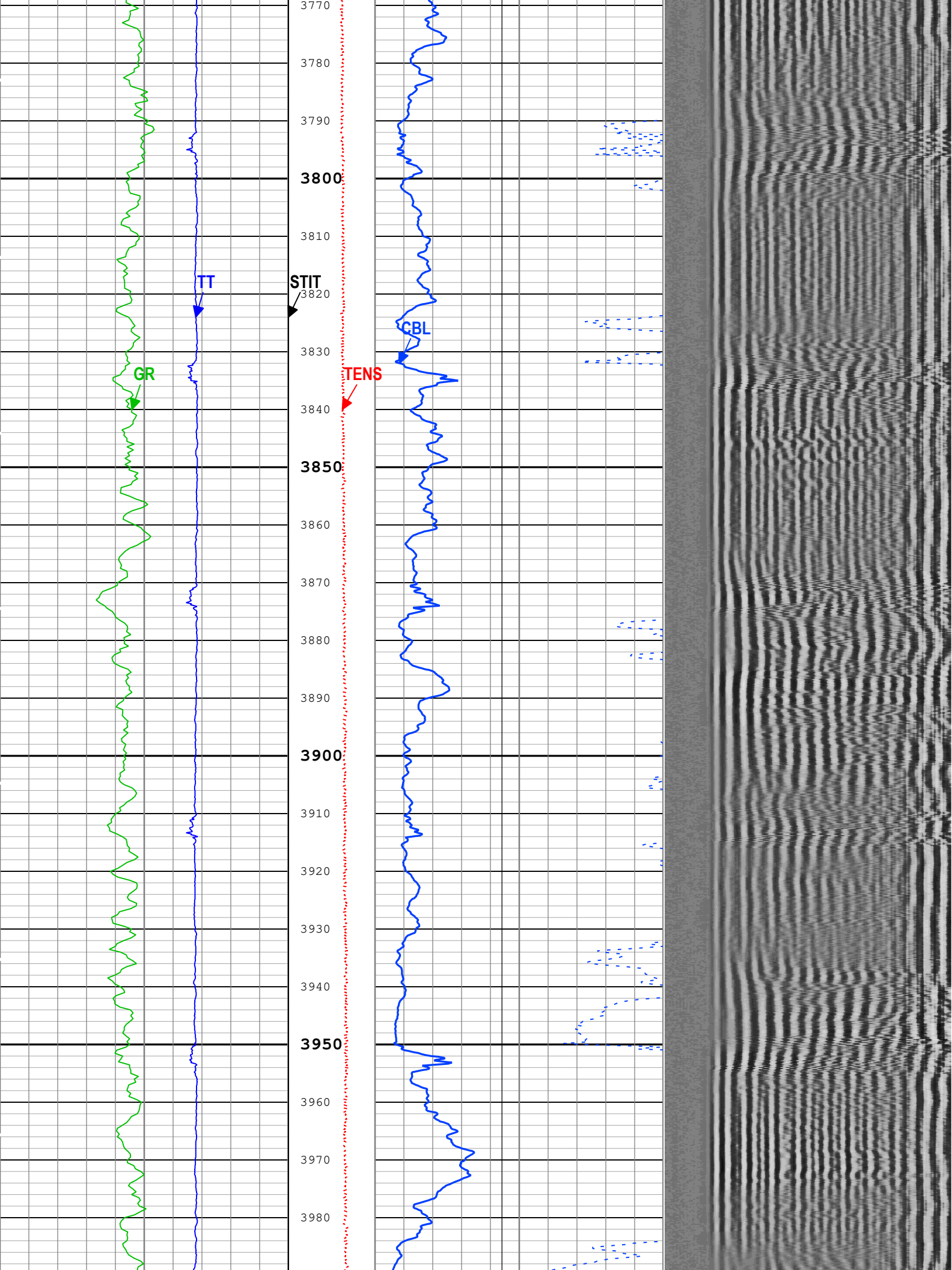


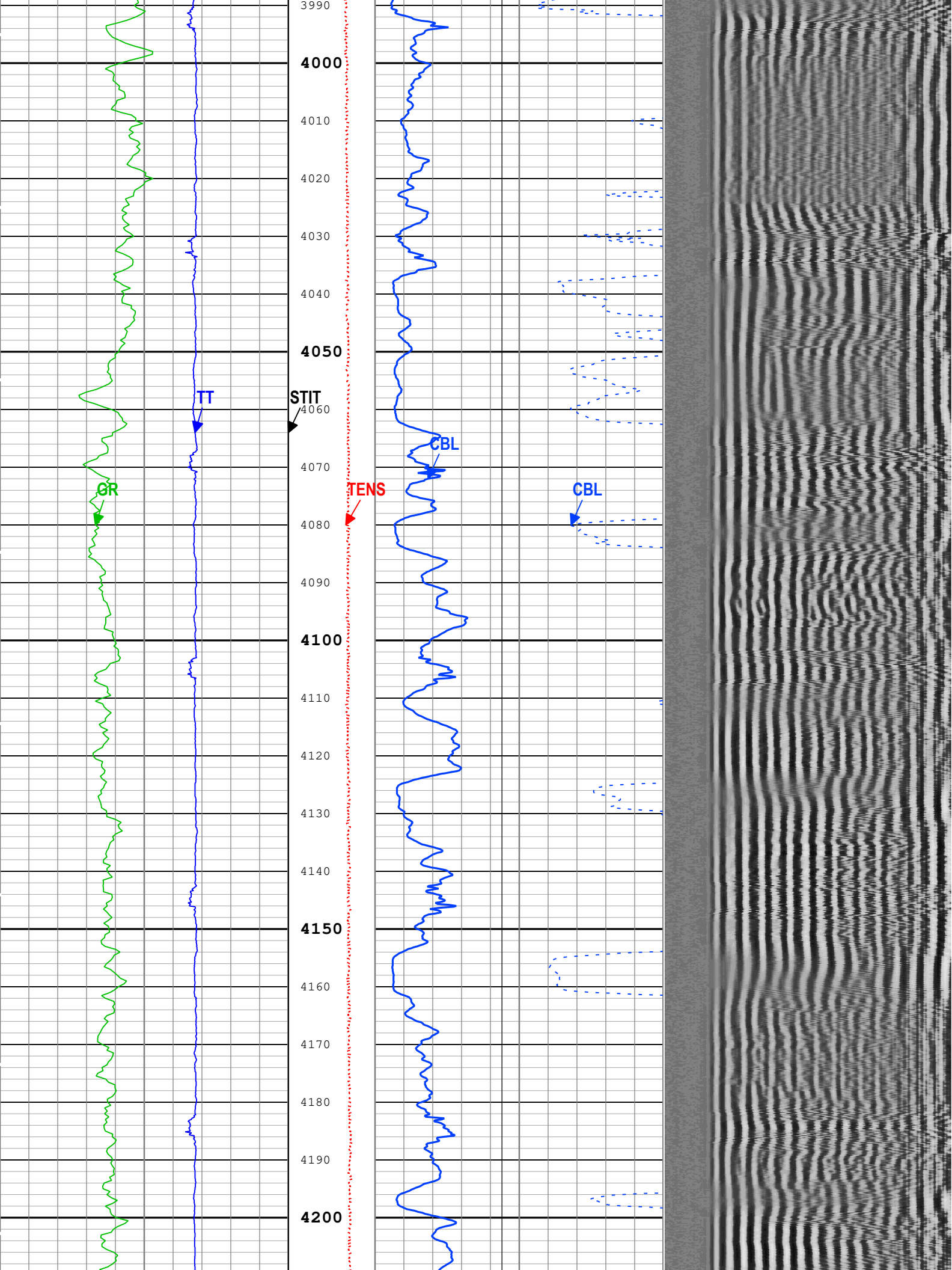


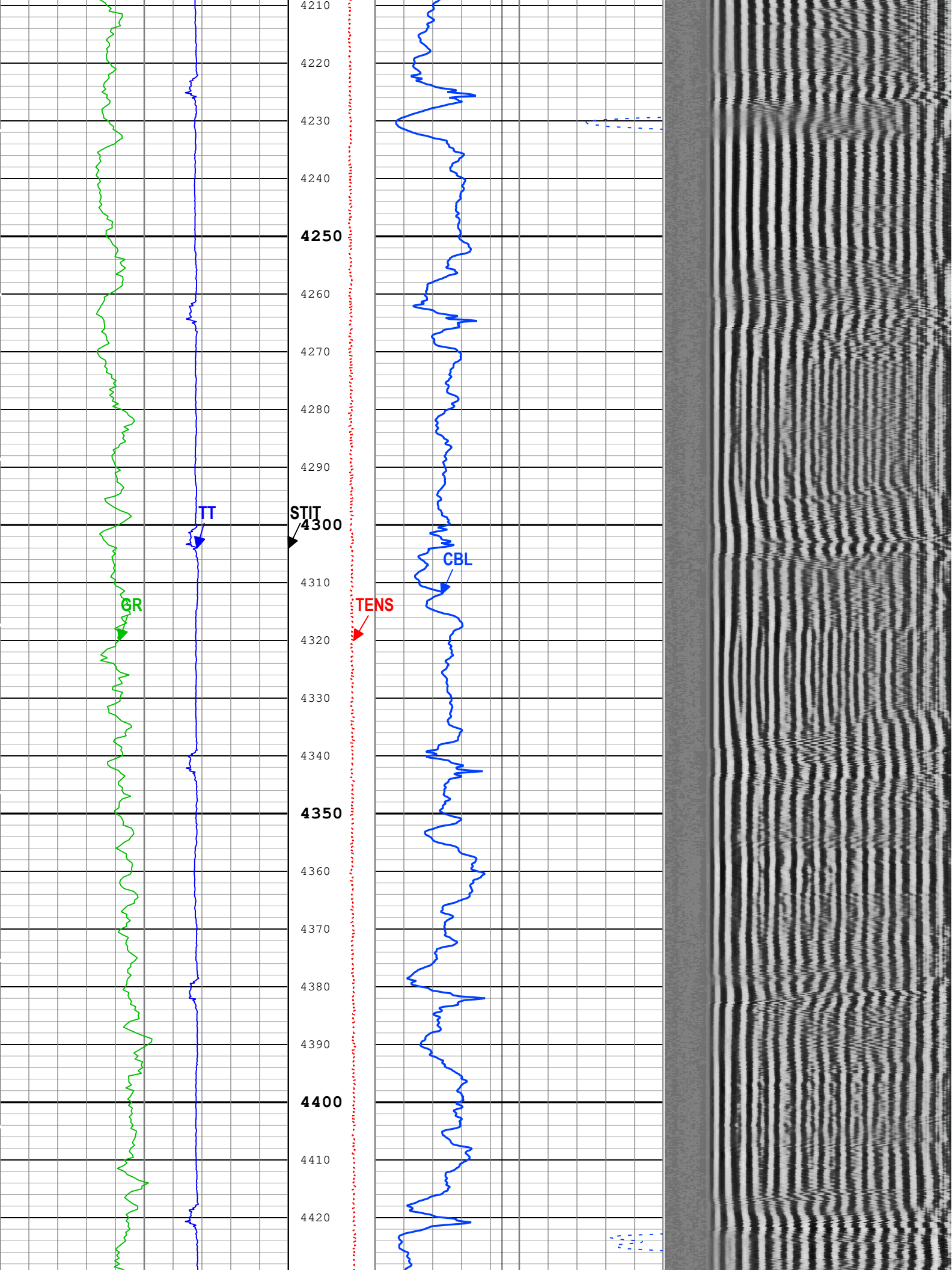


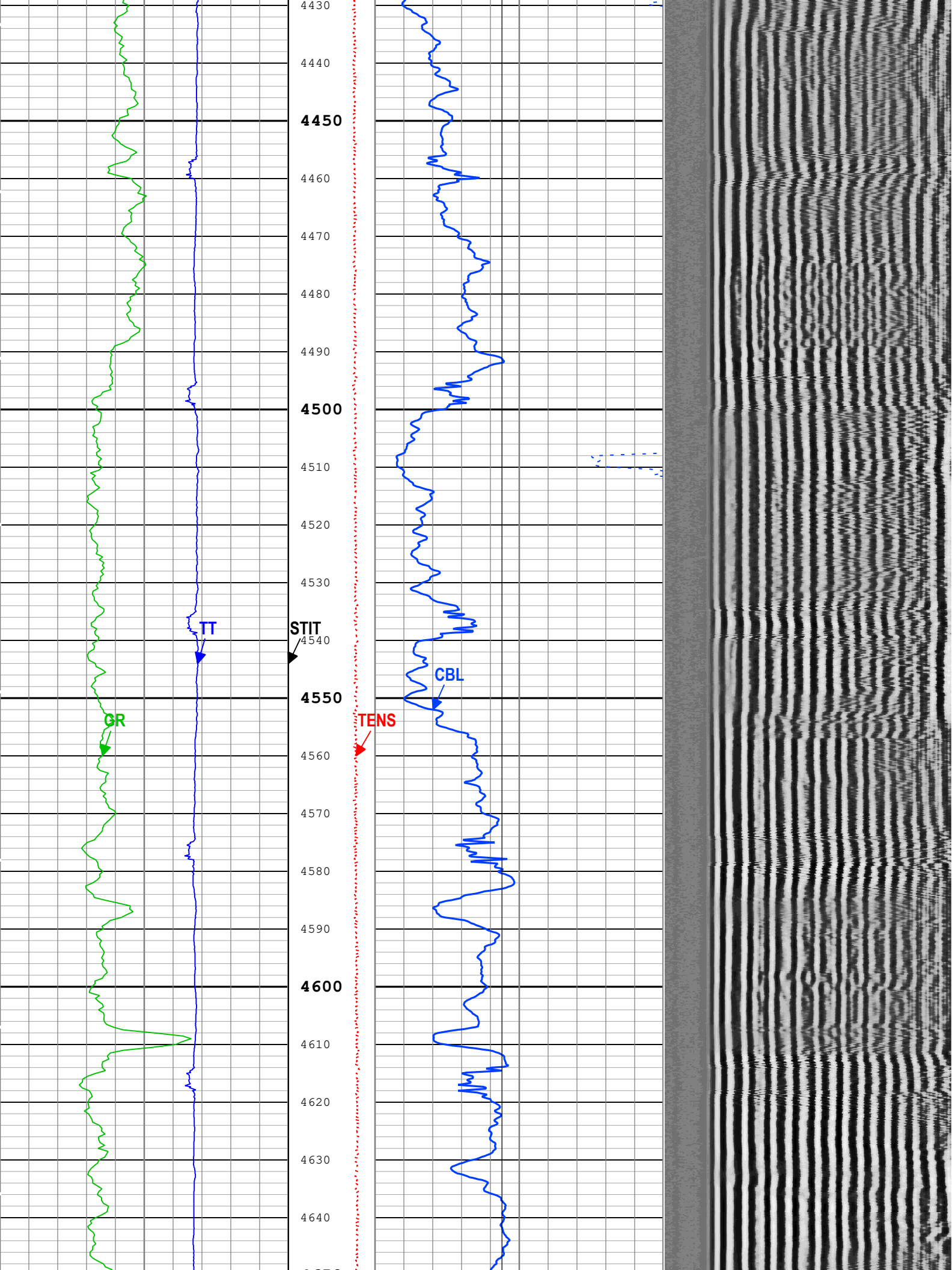


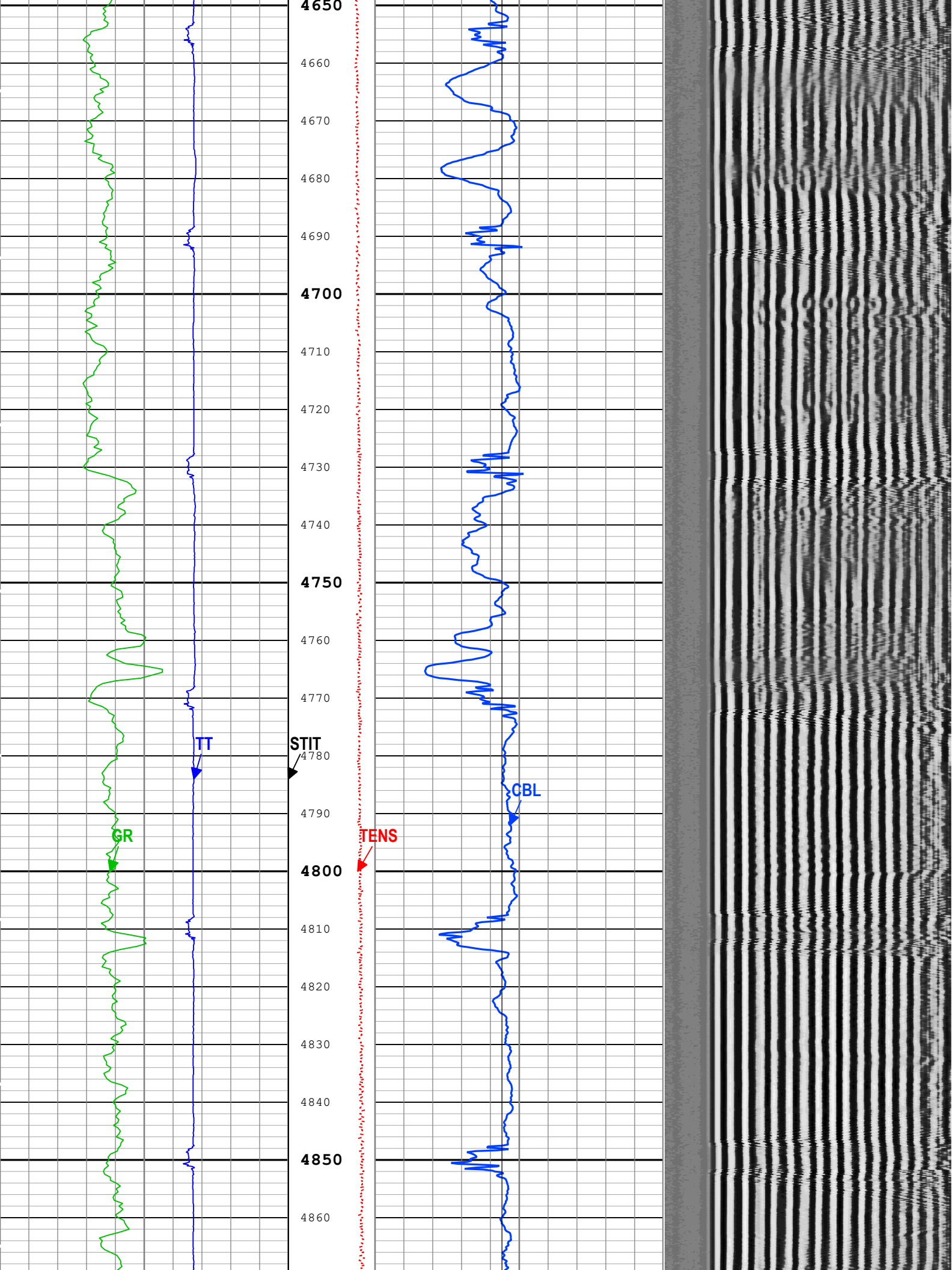


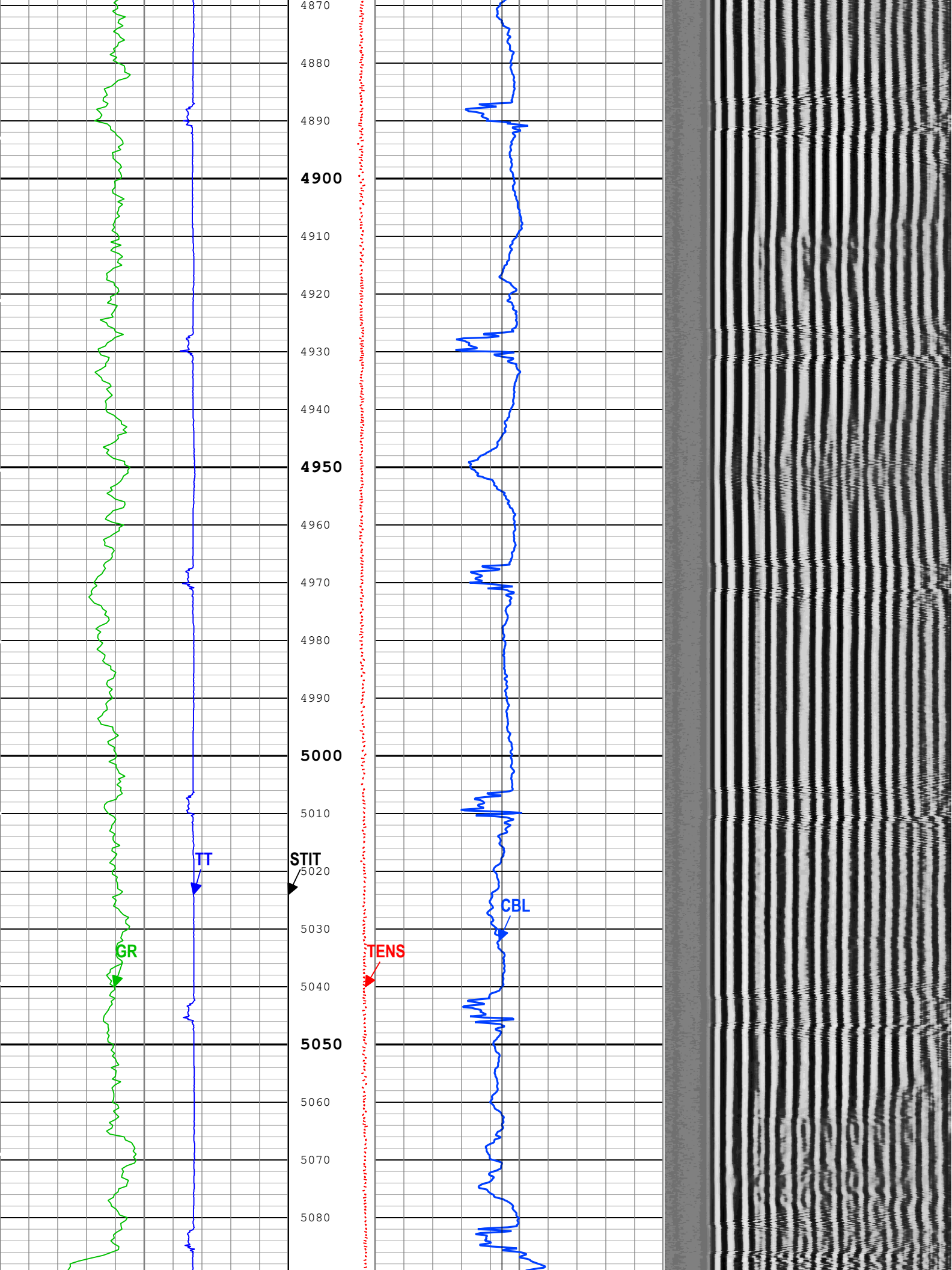


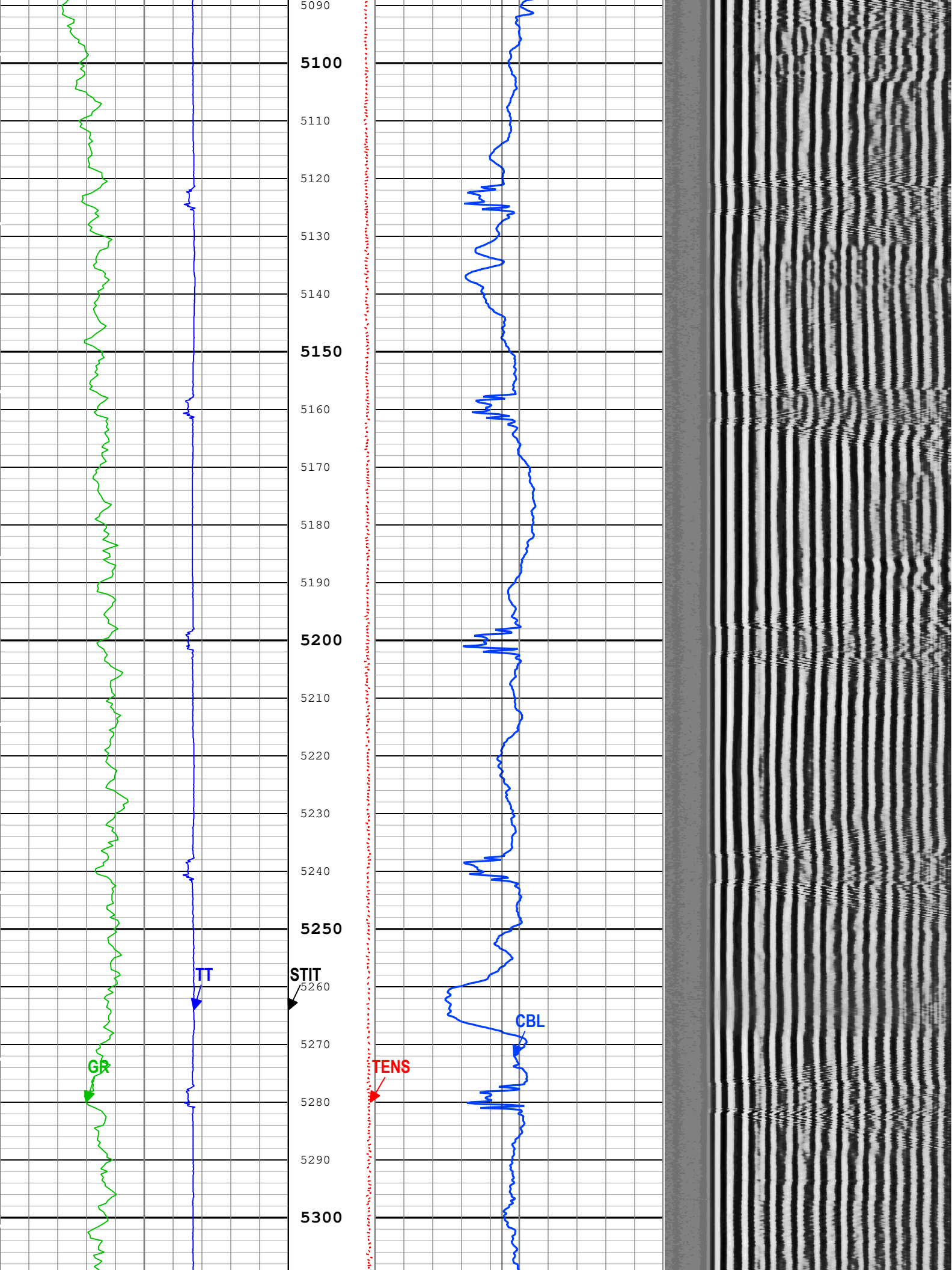


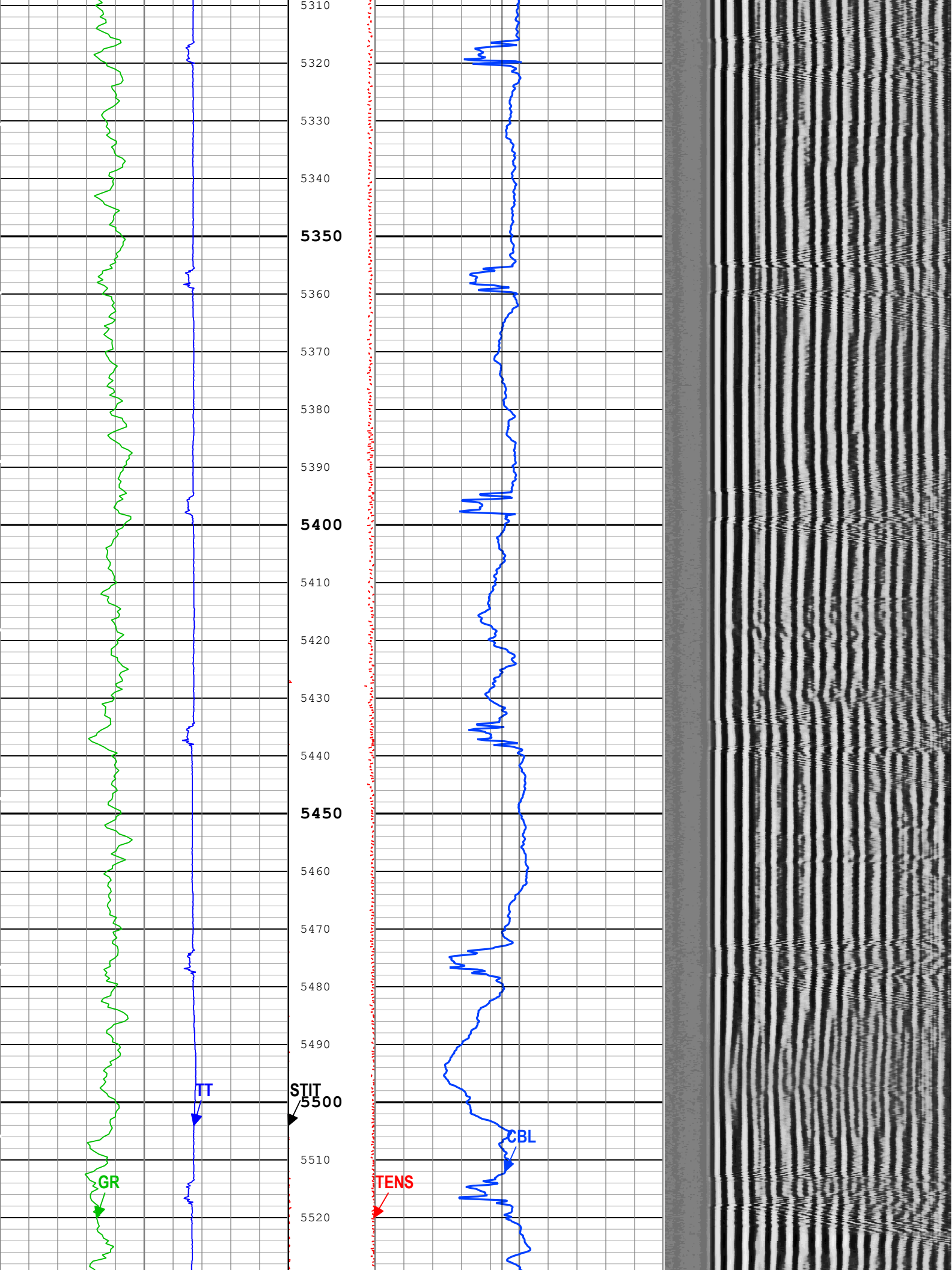


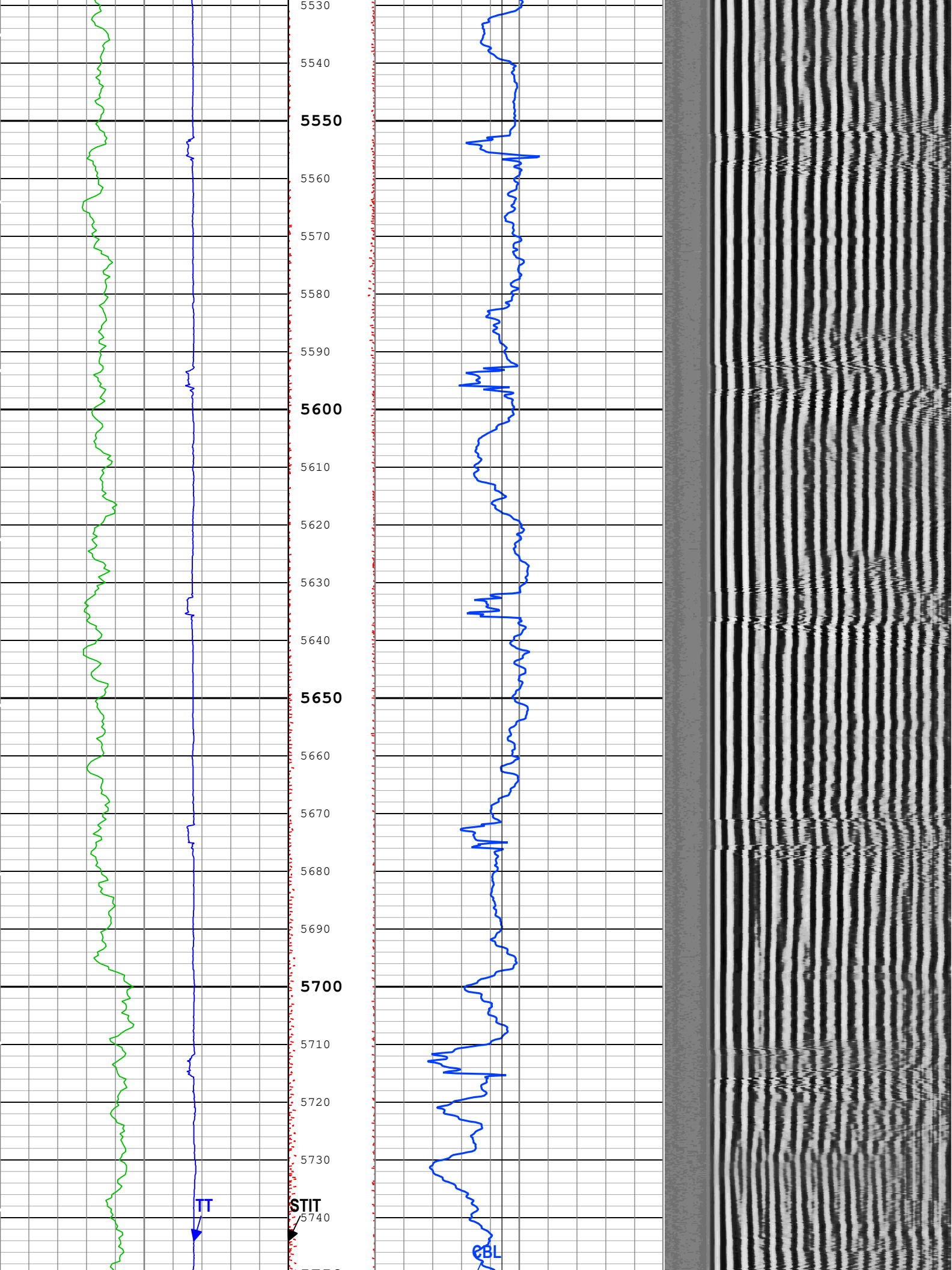


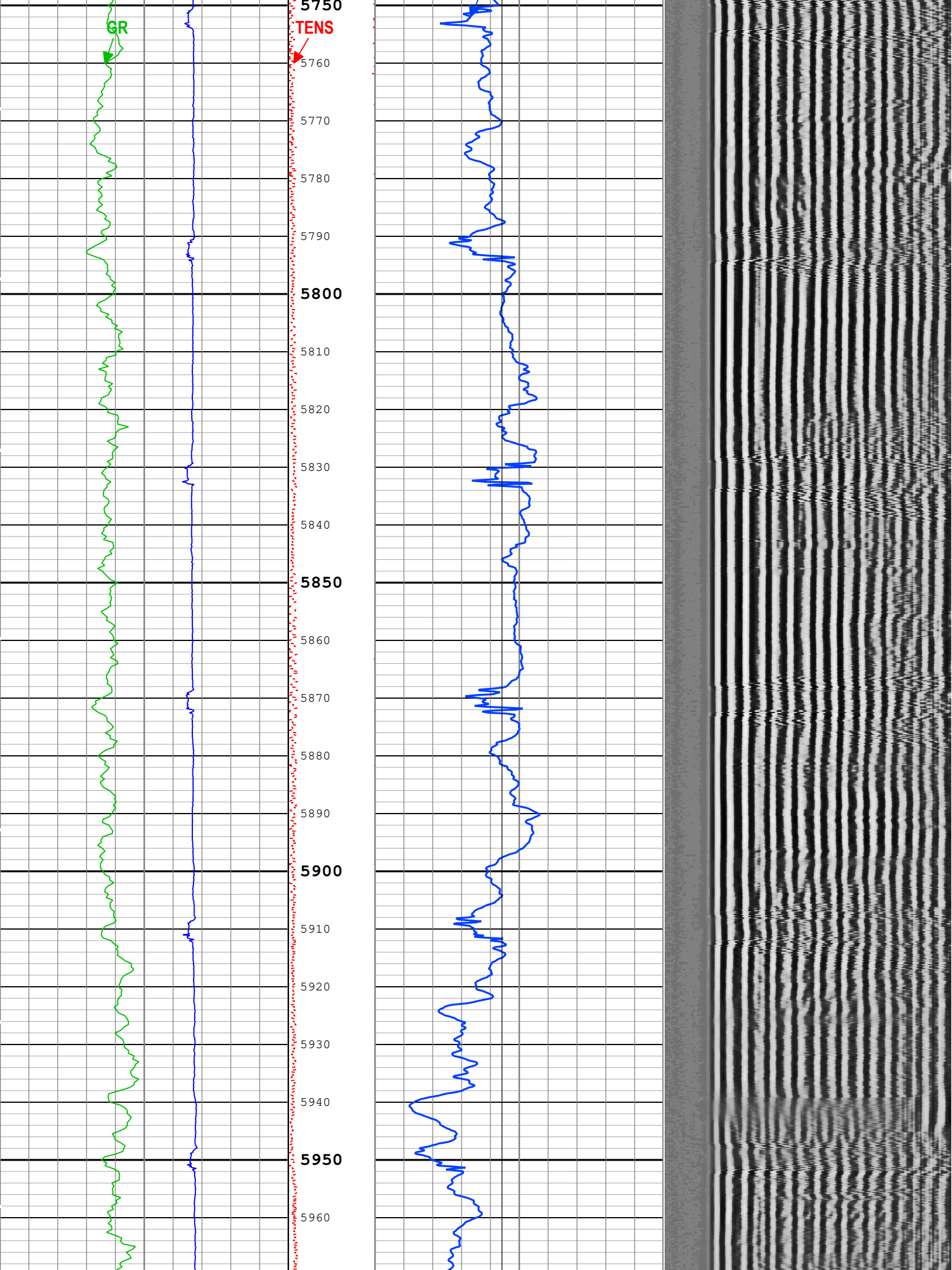


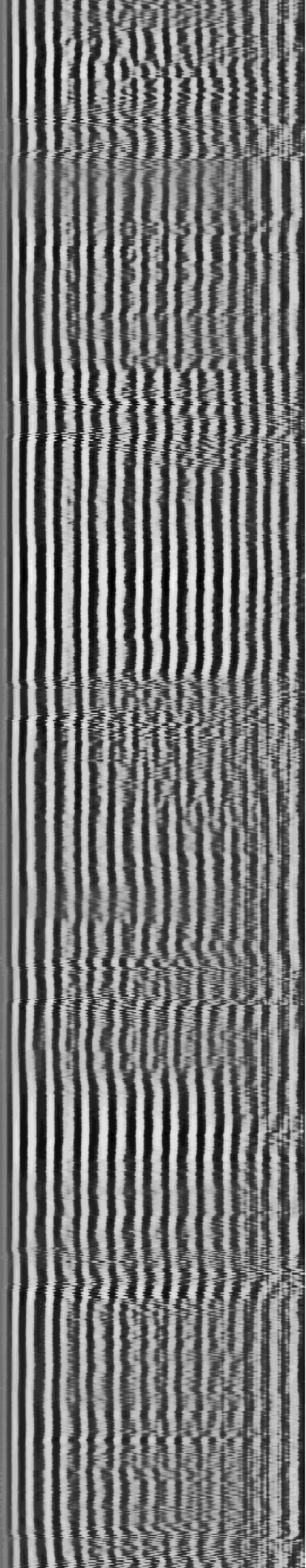
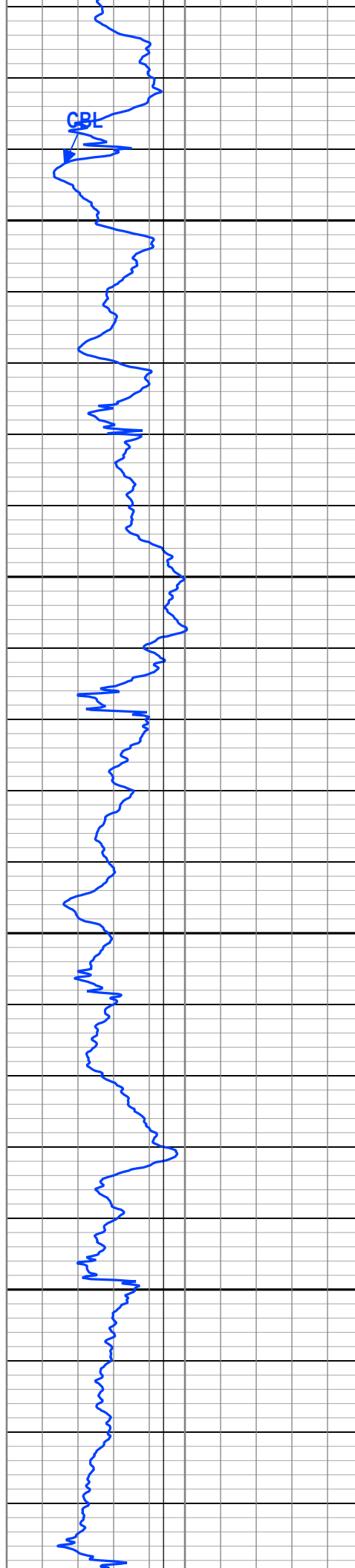
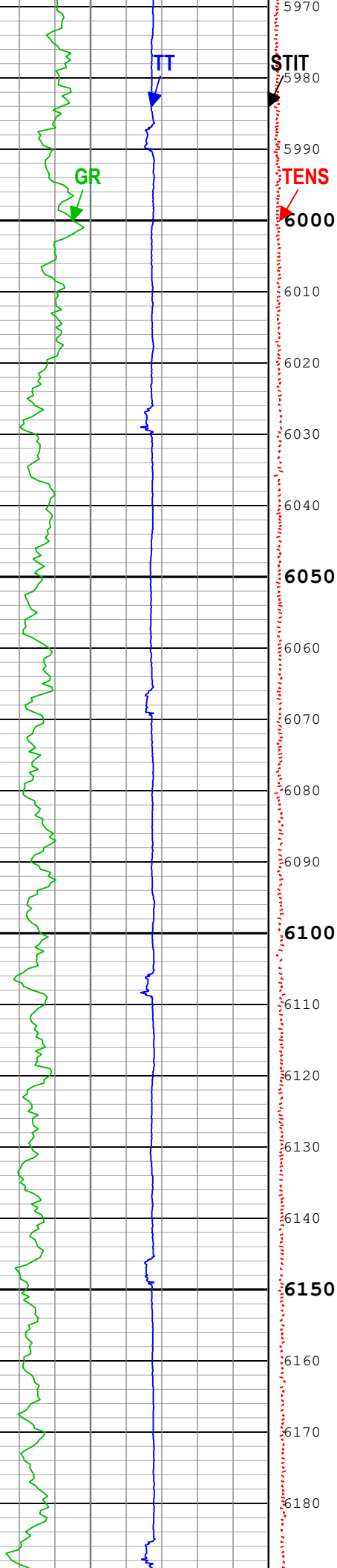


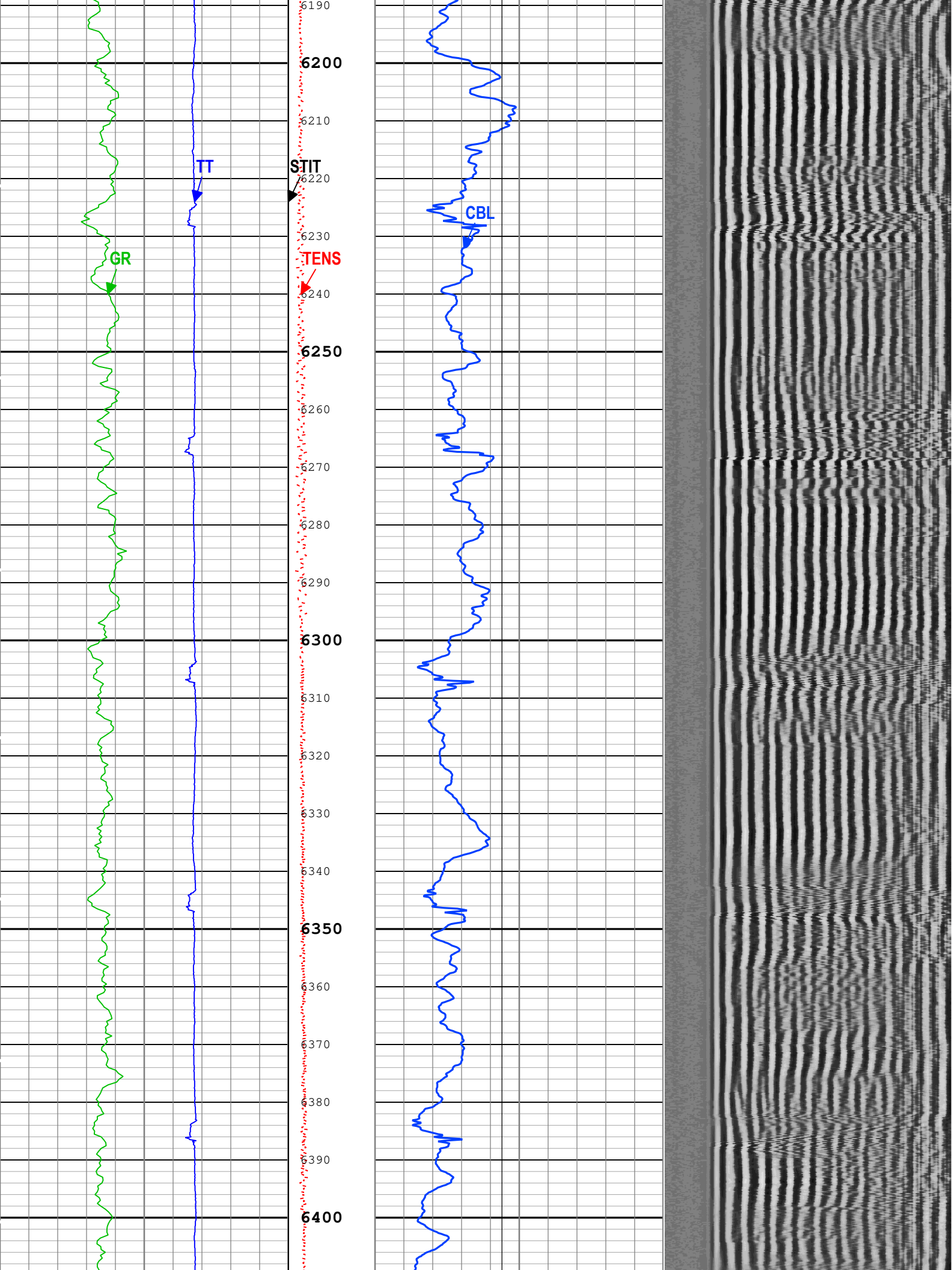


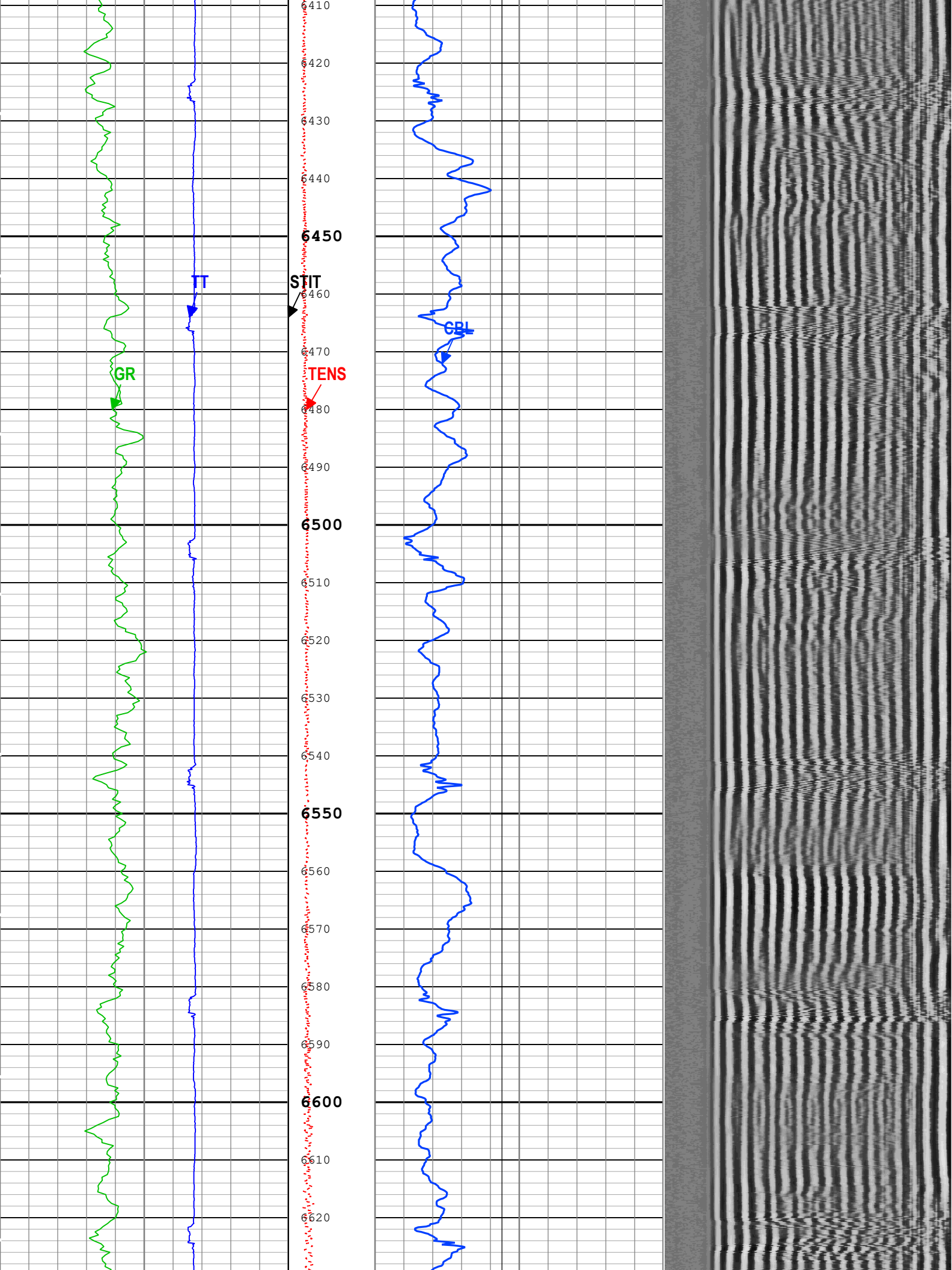


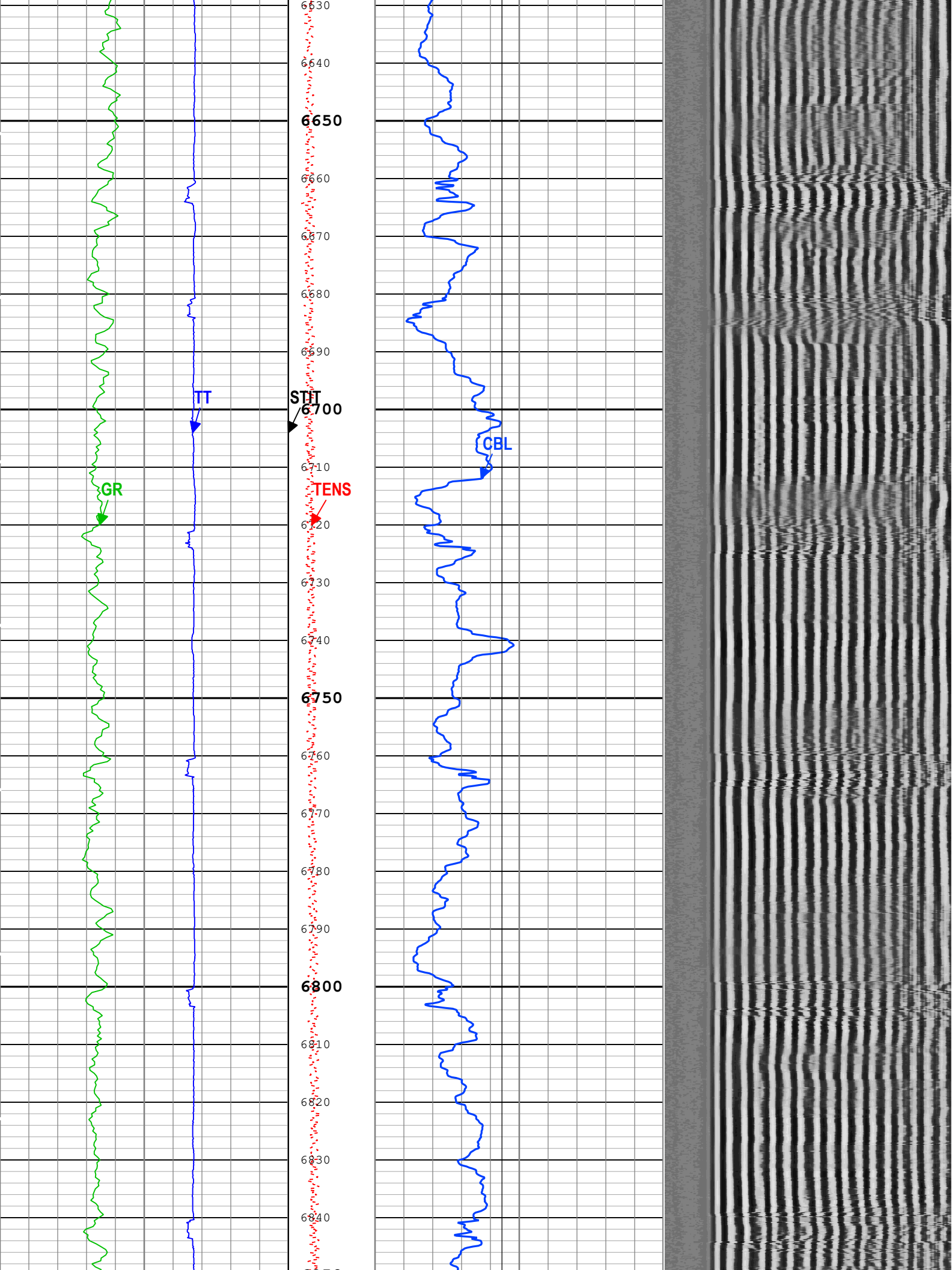


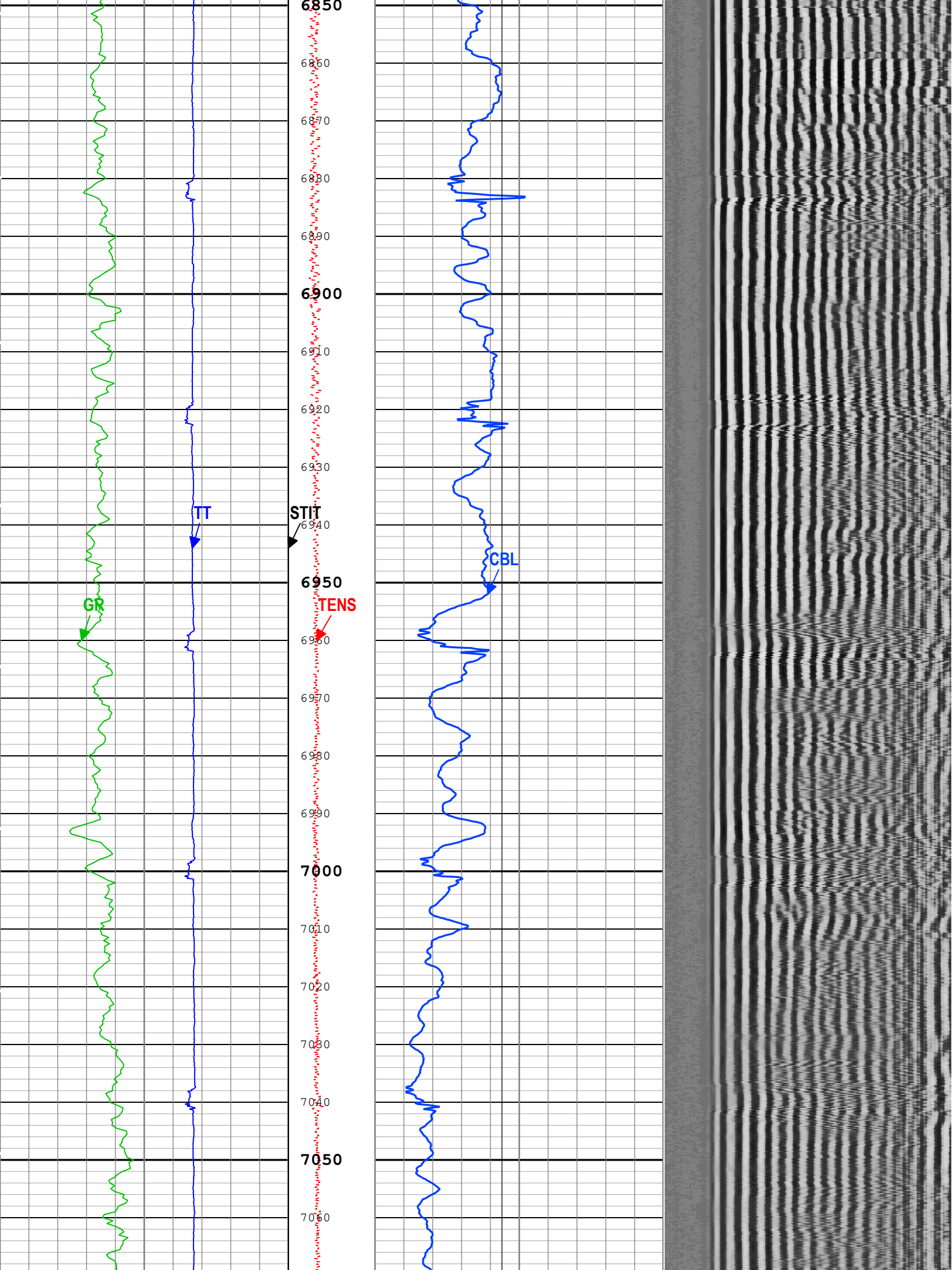


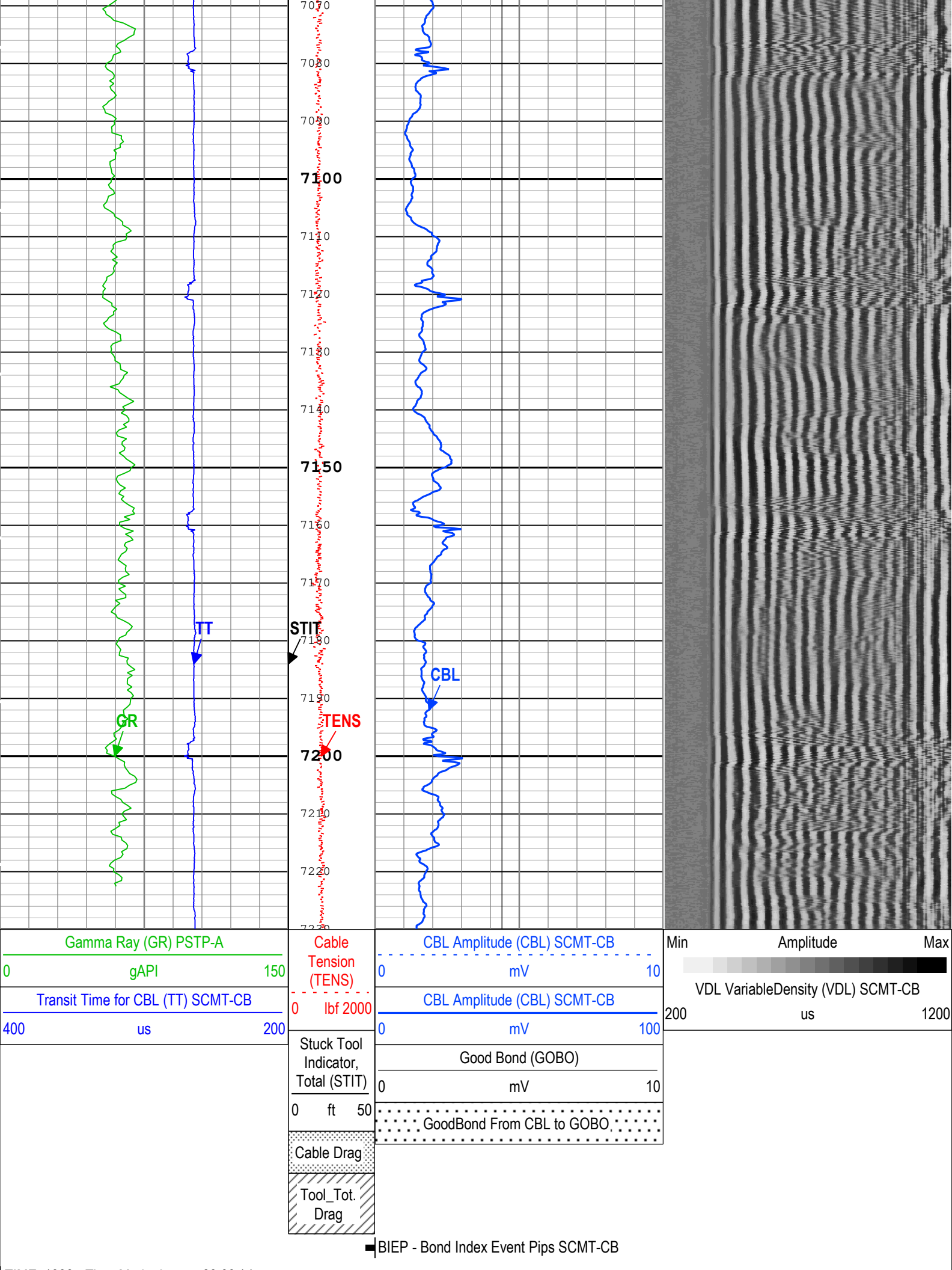












Channel Processing Parameters**Two: Parameters**

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	235.09	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	72	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.361	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
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	11.85	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	70	2361
MCI	4.75	2361	7230

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	76.26 ft	7247.19 ft	21-May-2019 7:11:31 PM	21-May-2019 11:22:07 PM	ON	4.74 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources and Operating LLC

Well:Echeverria 2K-2H-D267

Two: Log[4]:Up:S003

TIME_1900 - Time Marked every 60.00 (s)

Gamma Ray (GR) PSTP-A			CBL Amplitude (CBL) SCMT-CB		
0	gAPI	150	0	mV	10
Relative Bearing (RB_SCMT) SCMT-CB			CBL Amplitude (CBL) SCMT-CB		
0	deg	360	0	mV	100
Minimum MAP Transit Time (MITT) SCMT-CB			Good Bond (GOBO)		
100	us	300	0	mV	10
Maximum MAP Transit Time (MXTT) SCMT-CB			Normalized Average MAP Amplitude (AVMA) SCMT-CB		
100	us	300	0	mV	100
Transit Time for CBL (TT) SCMT-CB			Normalized Minimum MAP Amplitude (MIMA) SCMT-CB		
200	us	400	0	mV	100
Well Pressure (WPRE) PSTP-A			Normalized Maximum MAP Amplitude (MXMA) SCMT-CB		
0	psi	10000	0	mV	100
Well Temperature (WTEP) PSTP-A			GoodBond From CBL to GOBO		
0	degF	300	200	us	1200

Stuck Tool Indicator, Total (STIT)

0 ft 50

Cable Drag

Tool_Tot. Drag

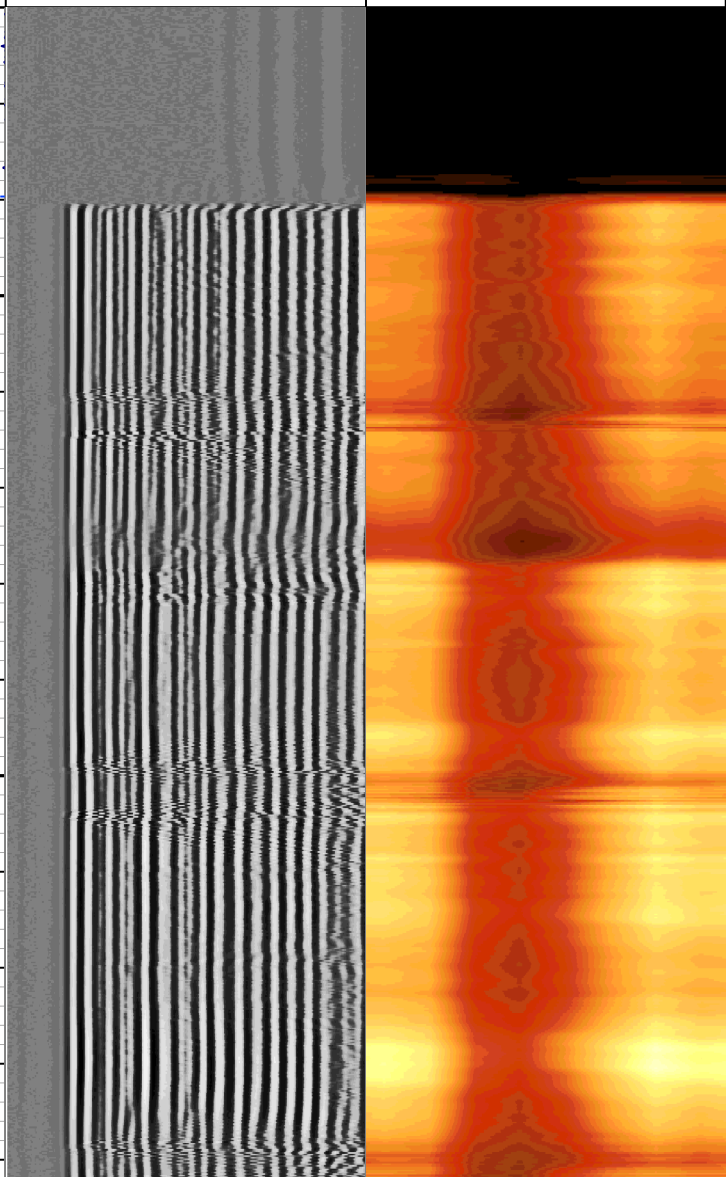
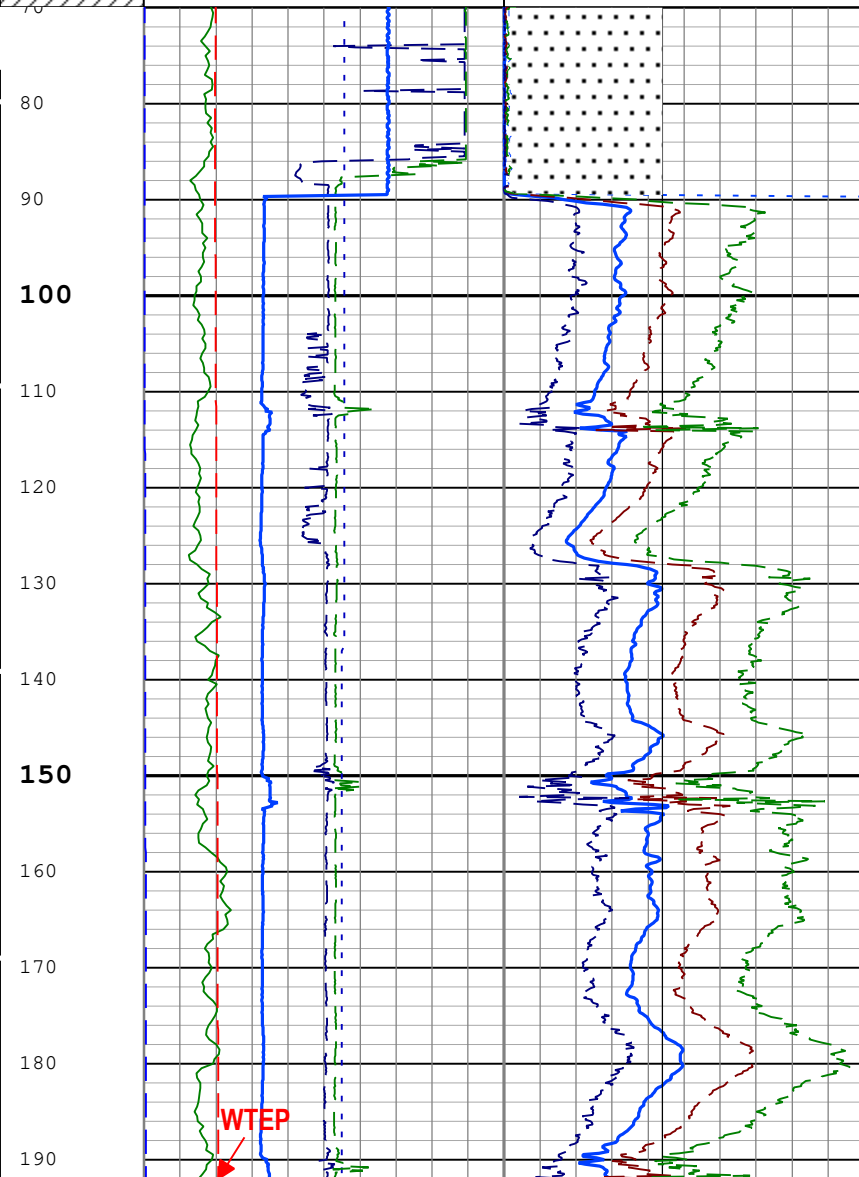
Min Amplitude Max

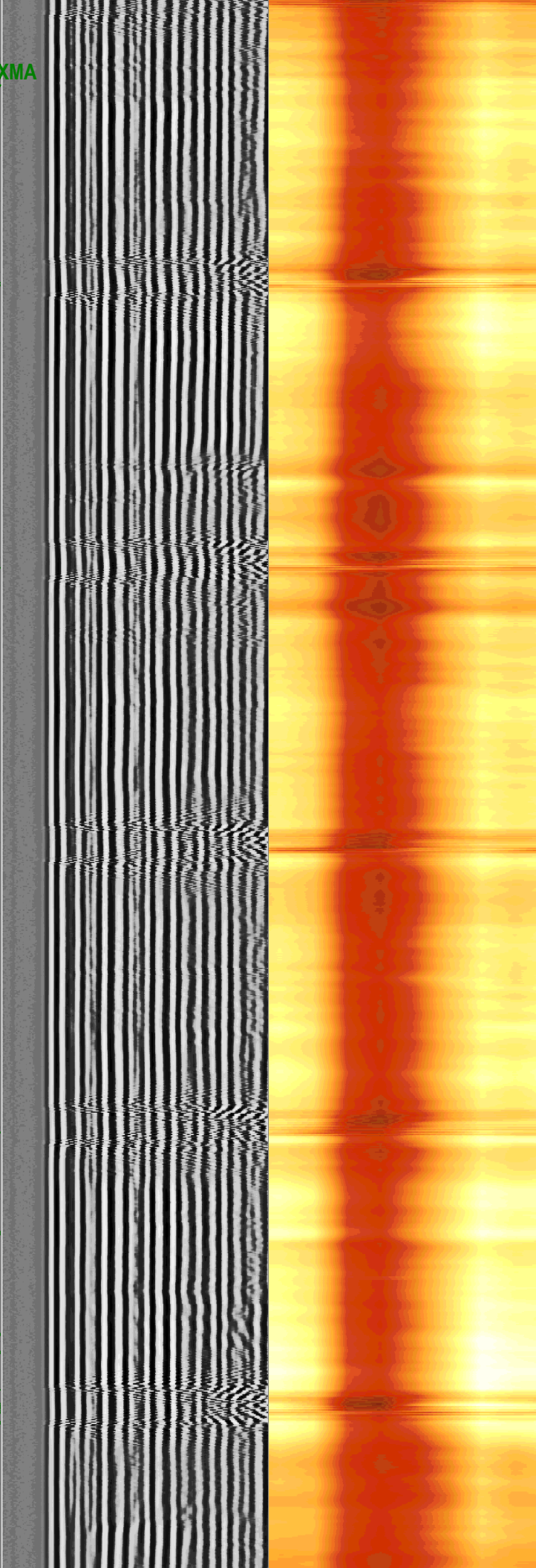
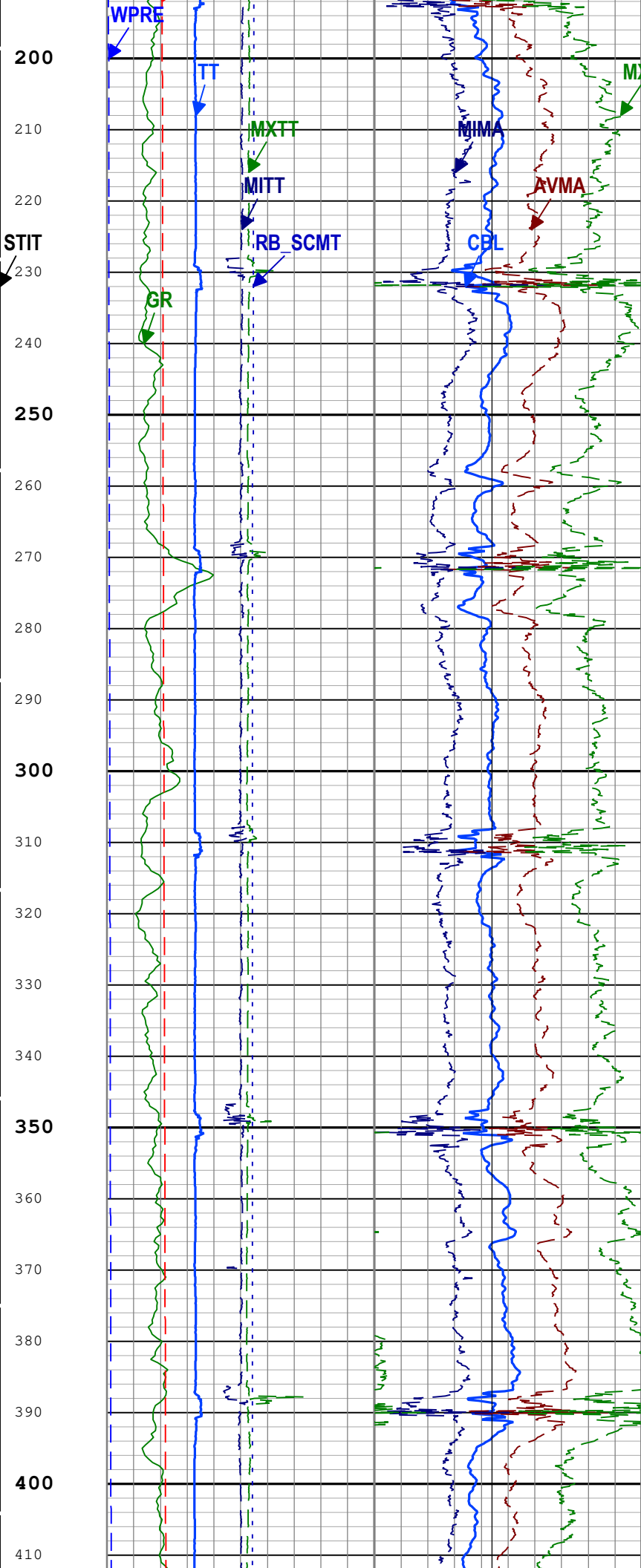
VDL VariableDensity (VDL) SCMT-CB

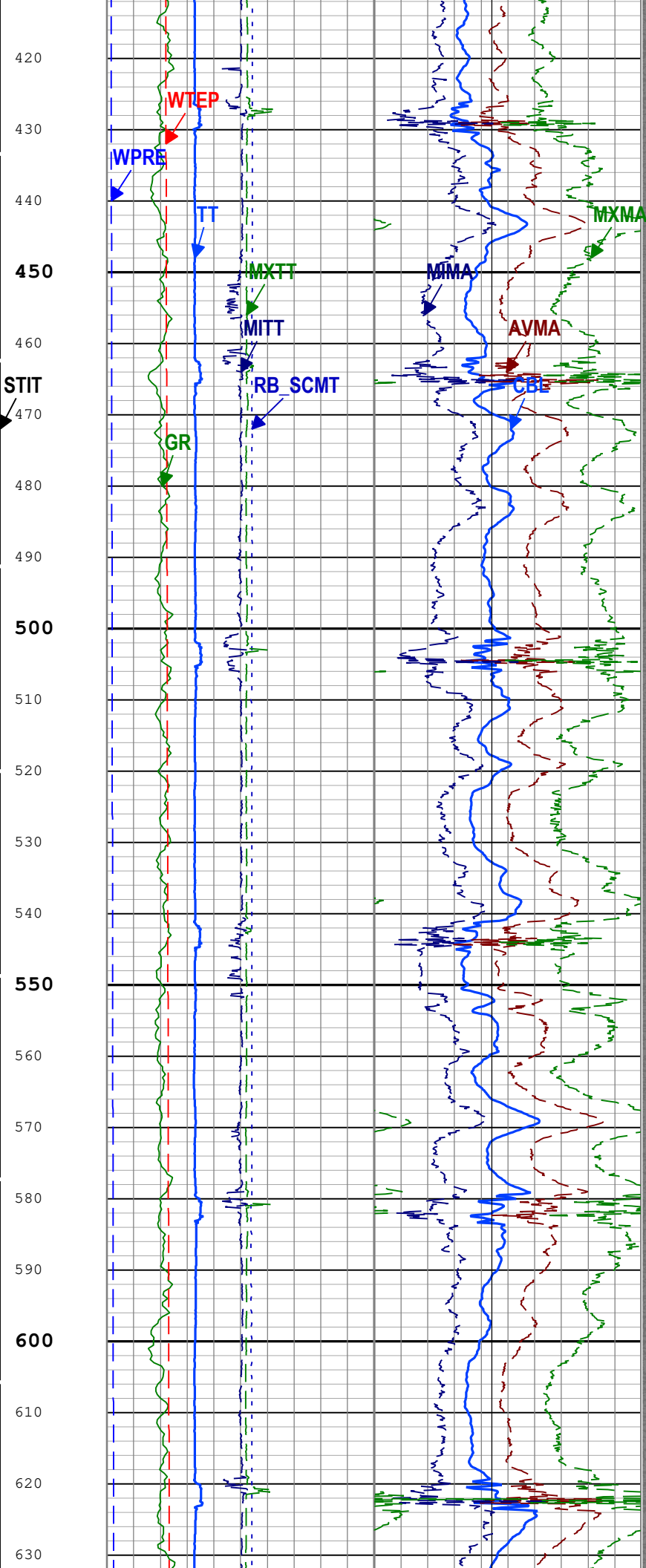
200 us 1200

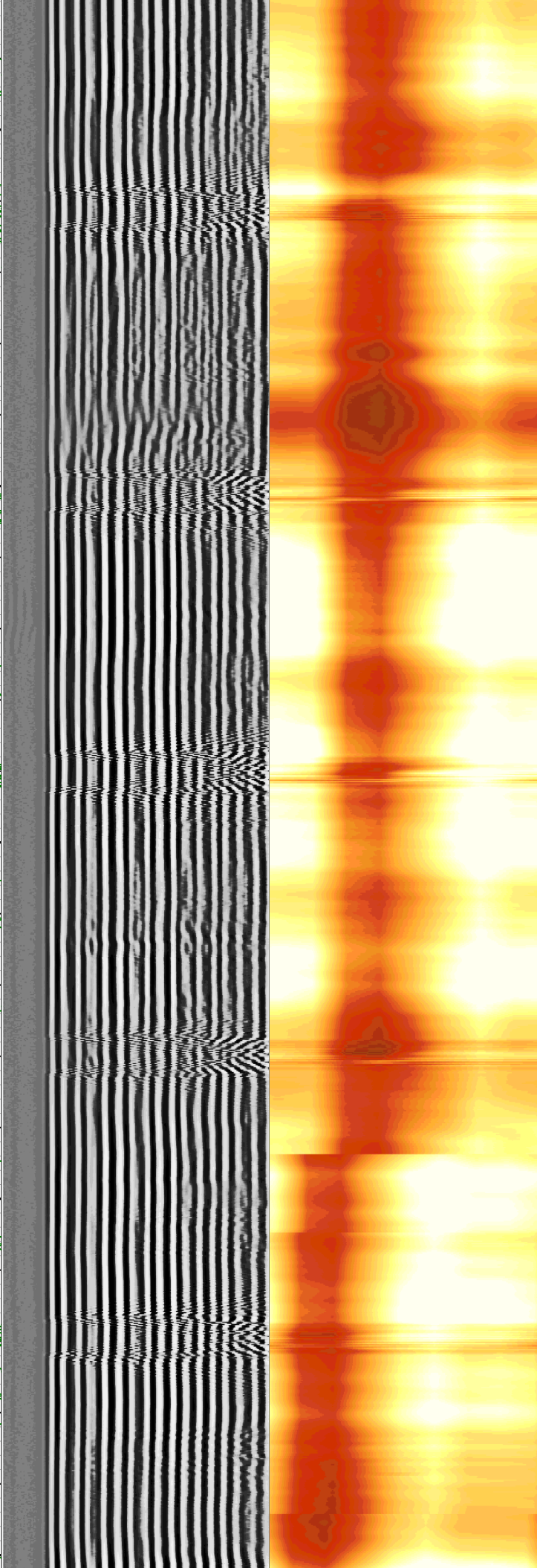
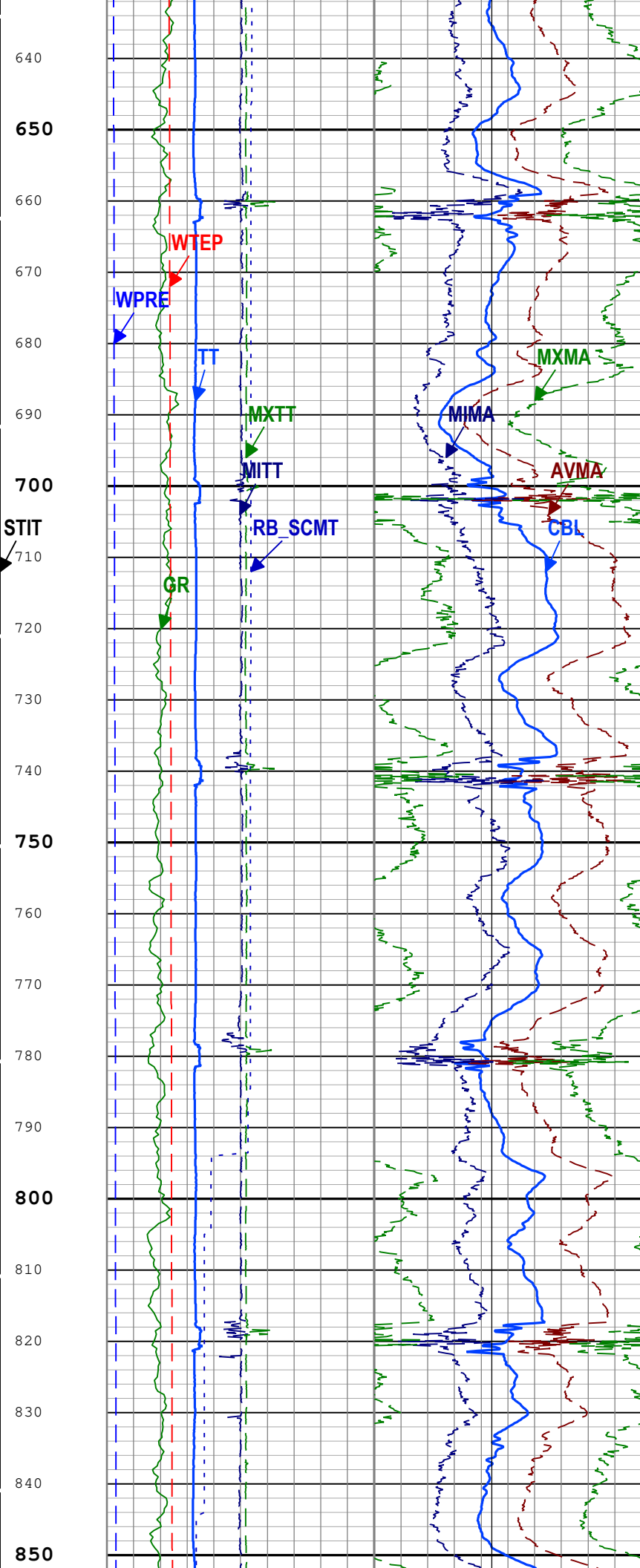
Absent 7.500 17.500 27.500 37.500 47.500 57.500 67.500 77.500 87.500 97.500

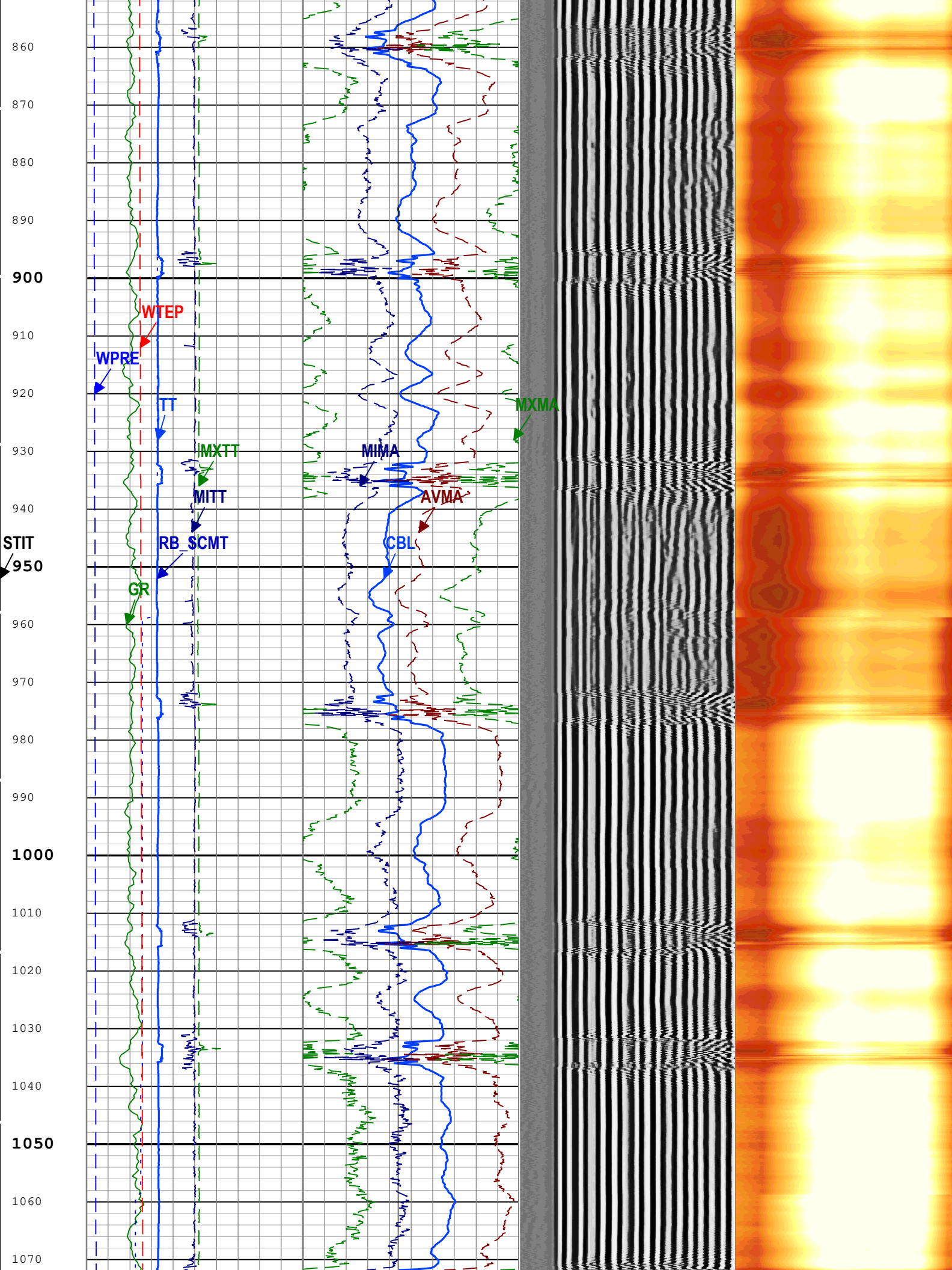
CBL Amplitude Mapping Image (0 - 100) SCMT-CB

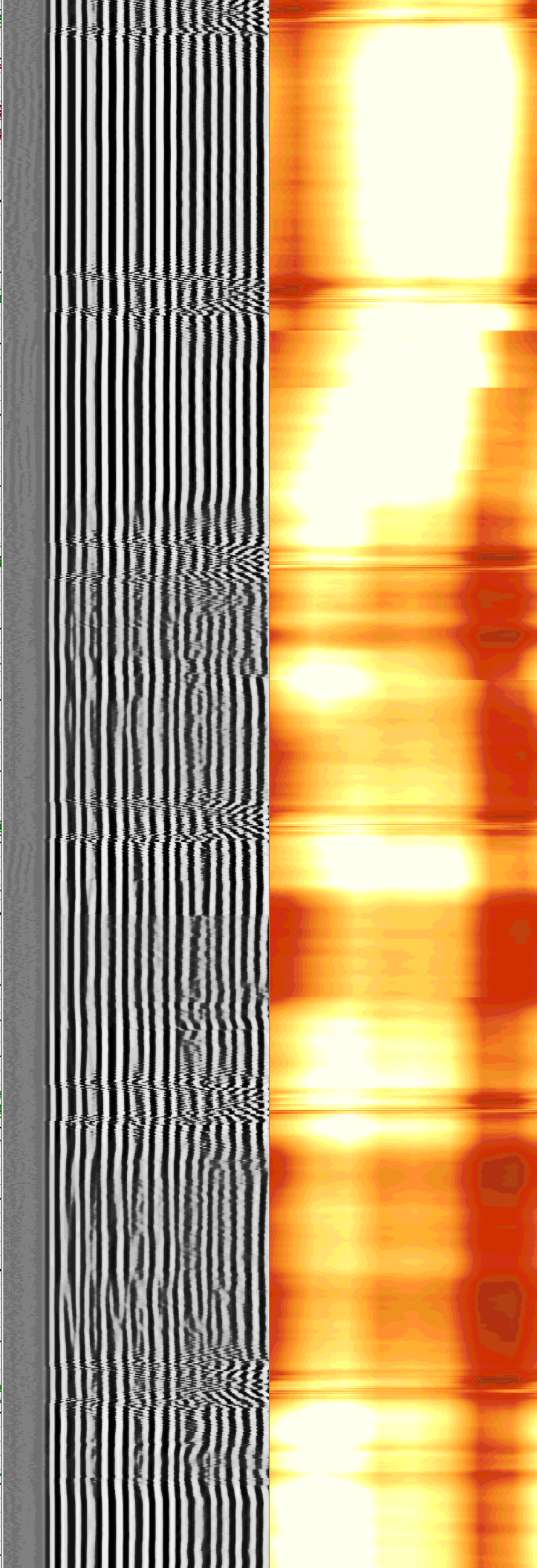
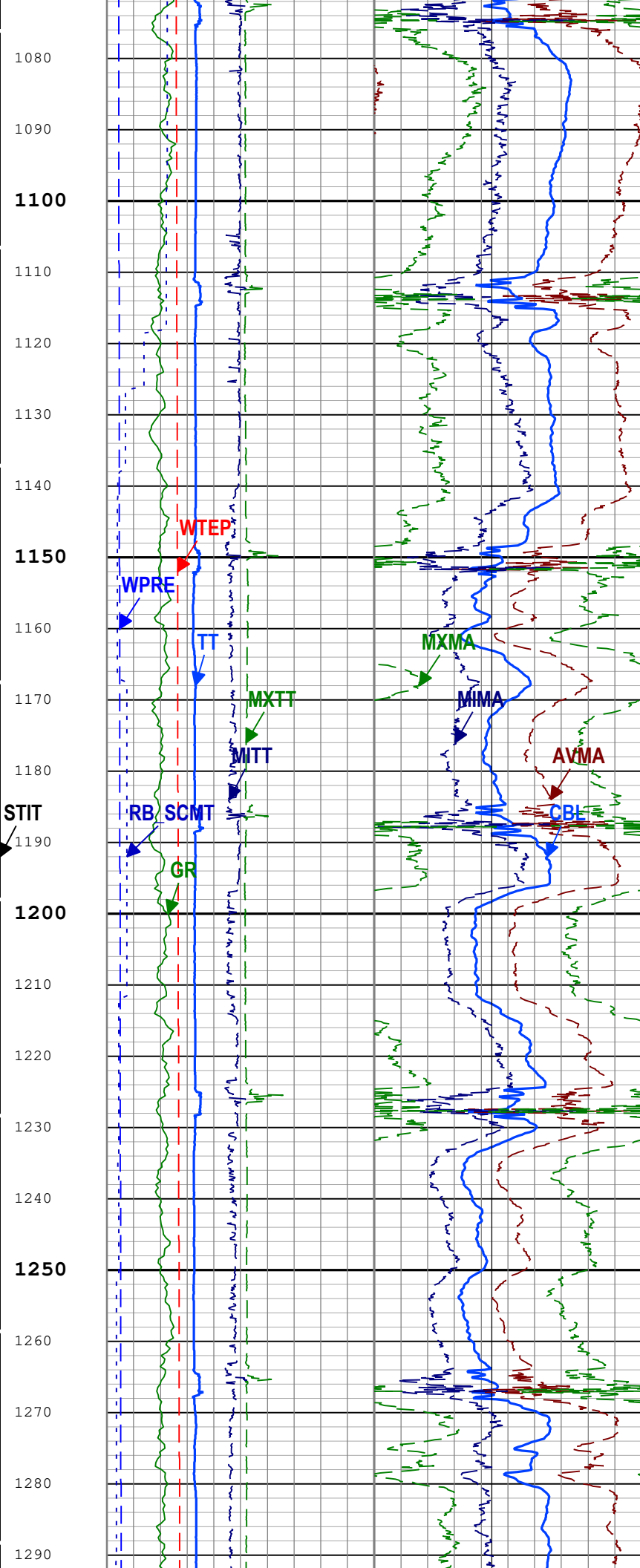


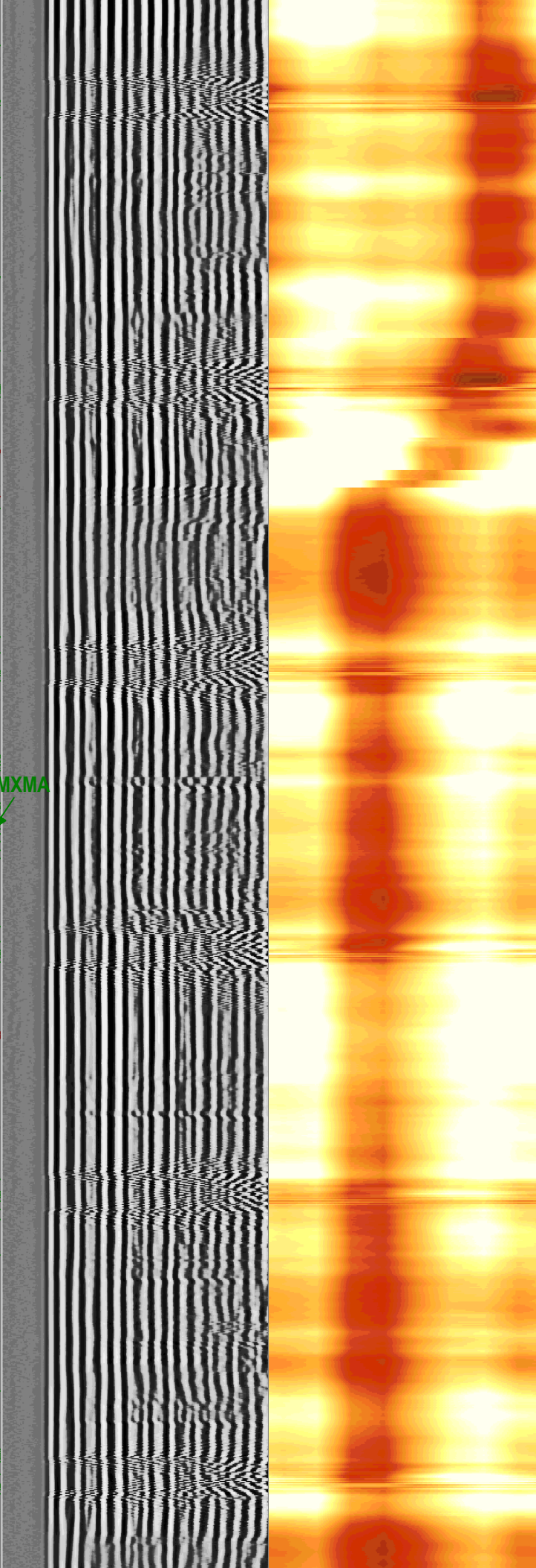
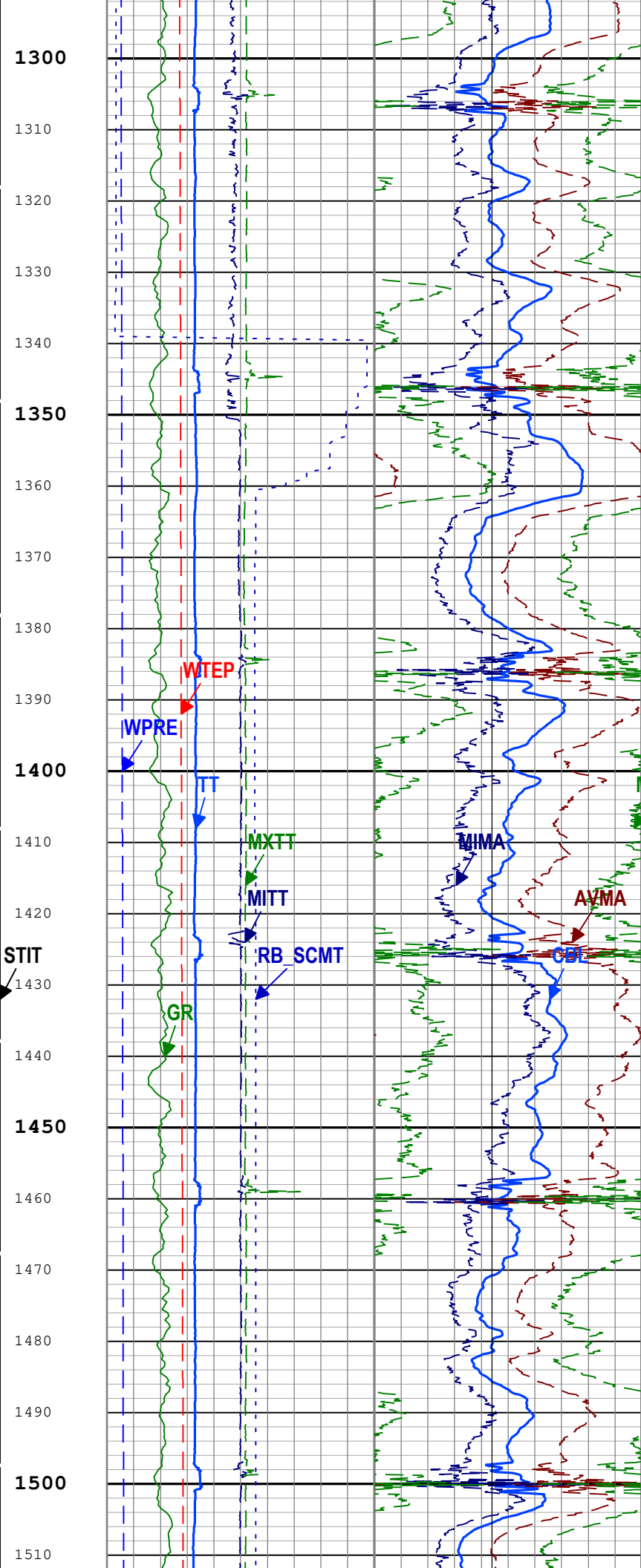


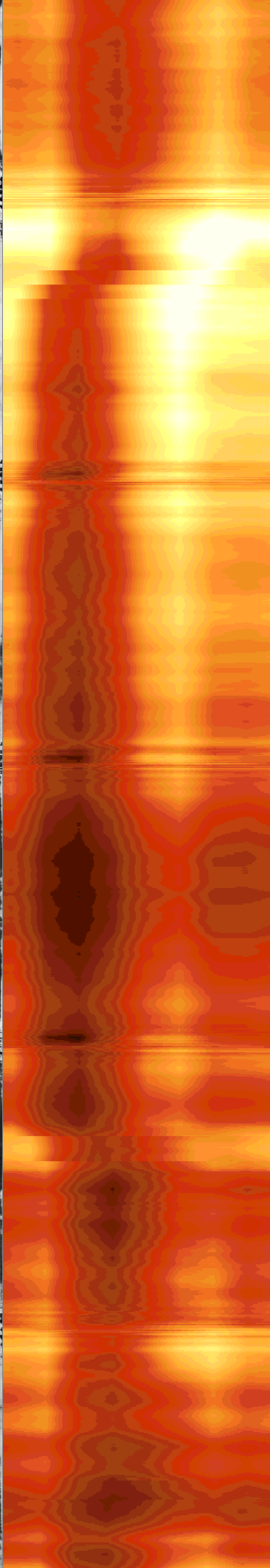
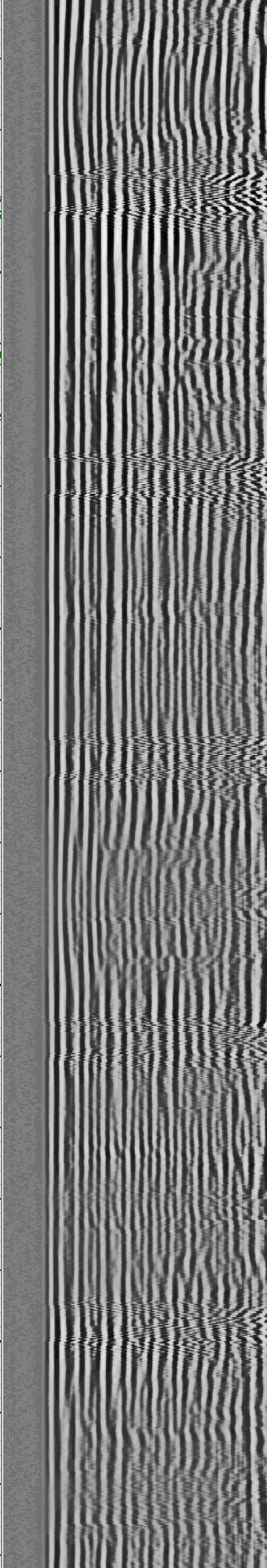
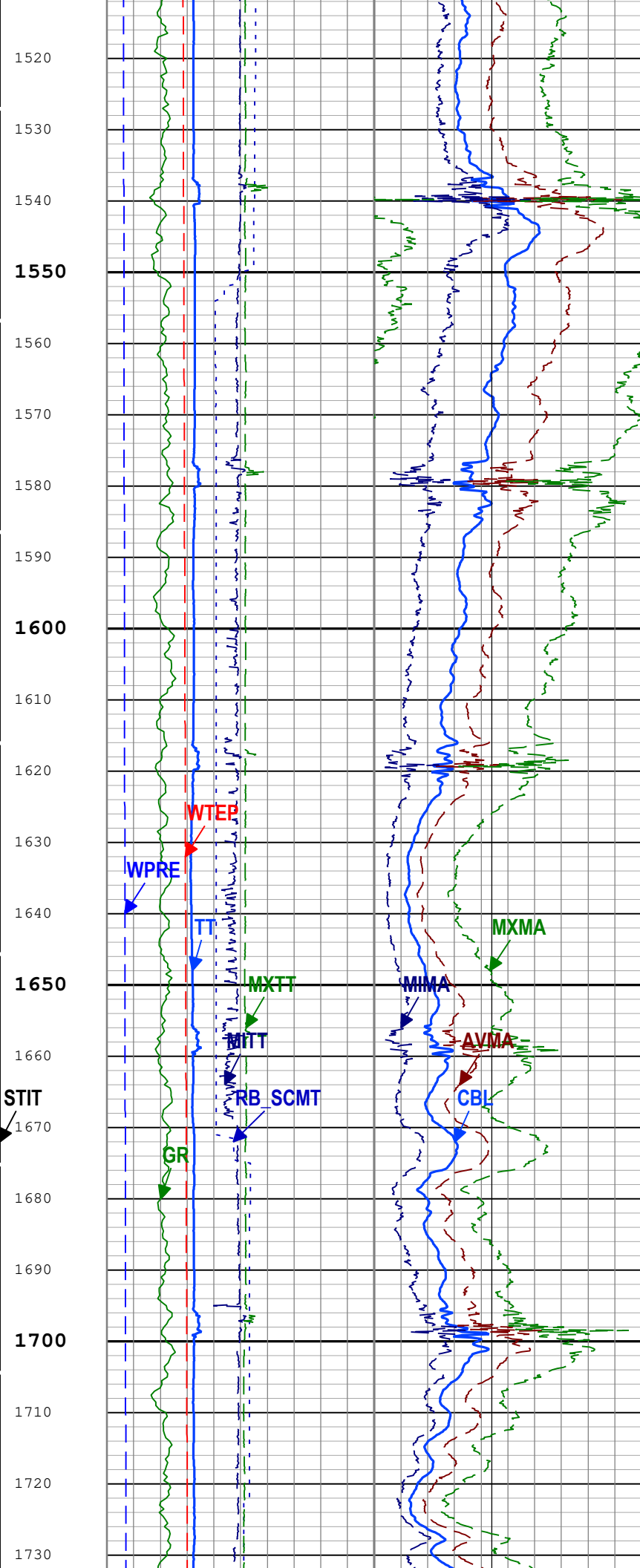


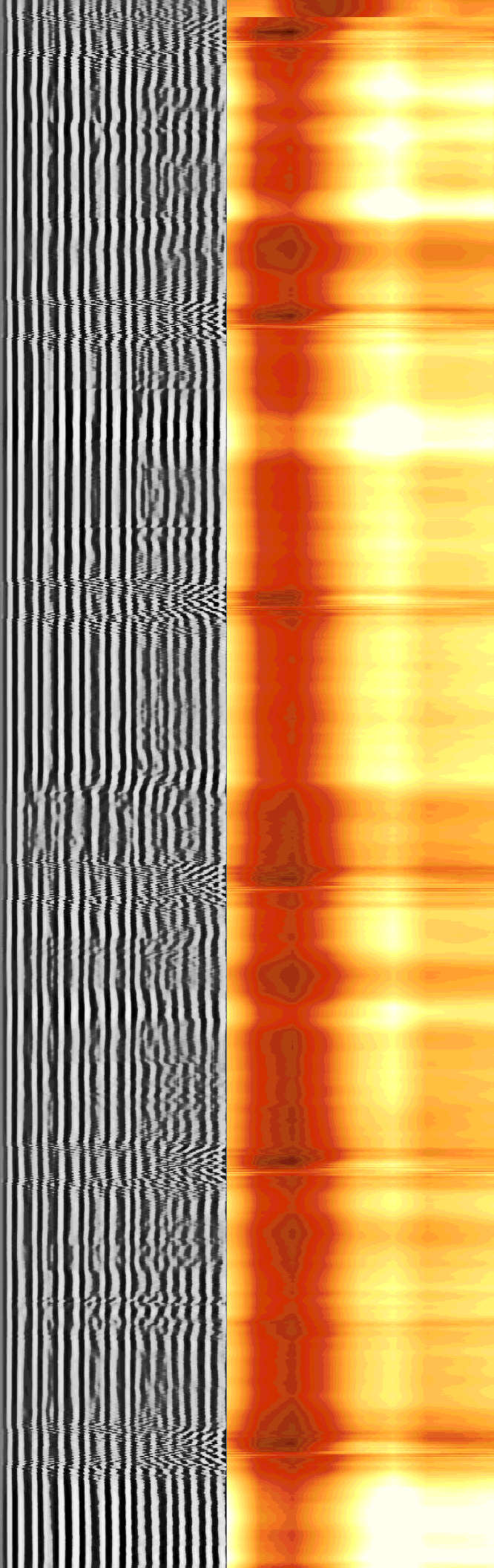
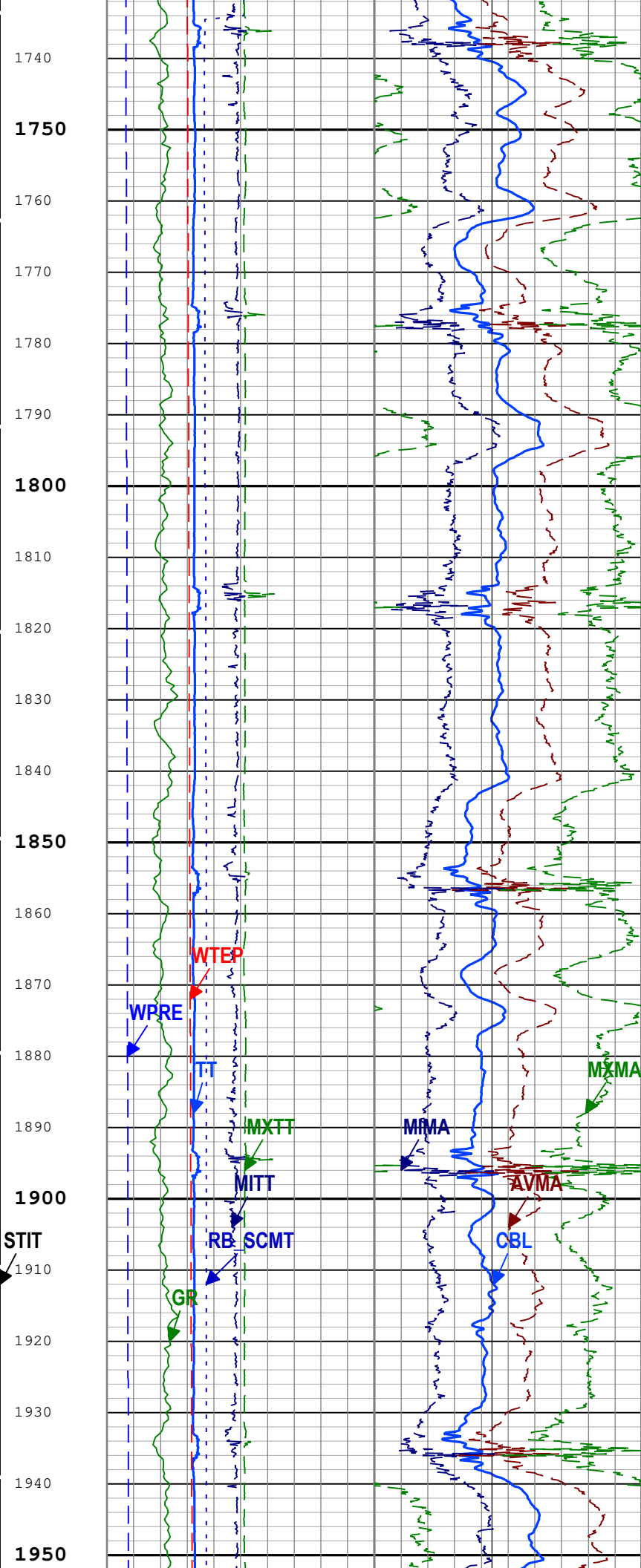


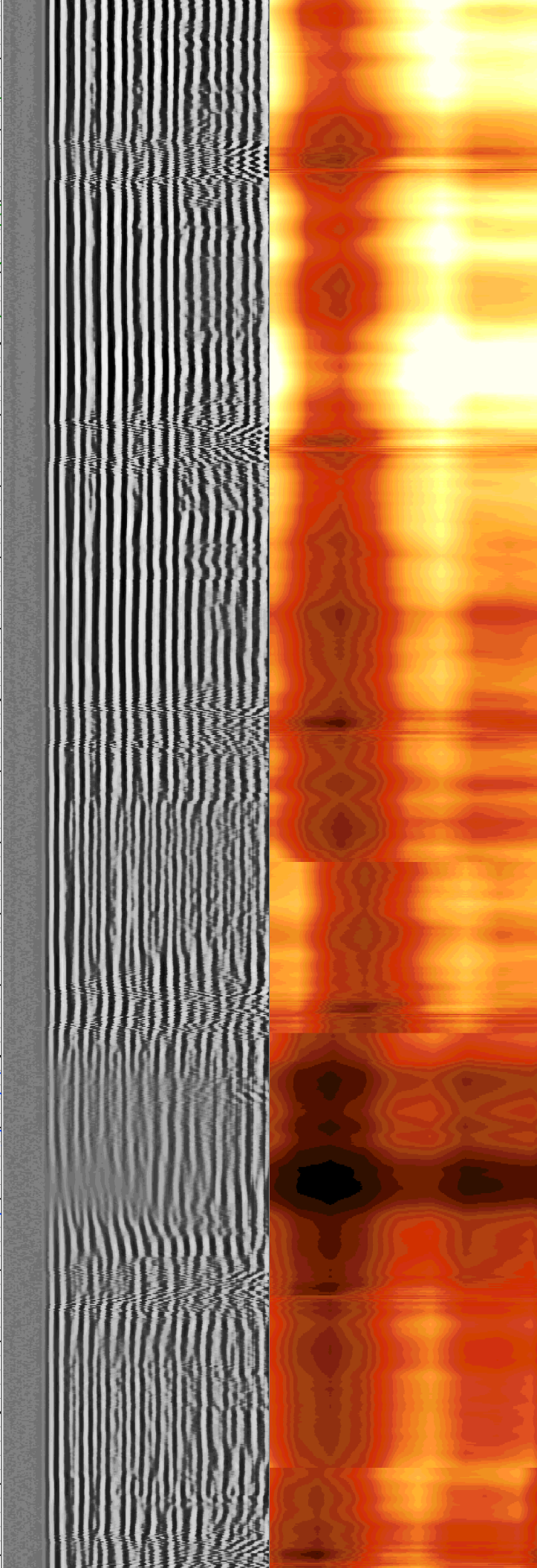
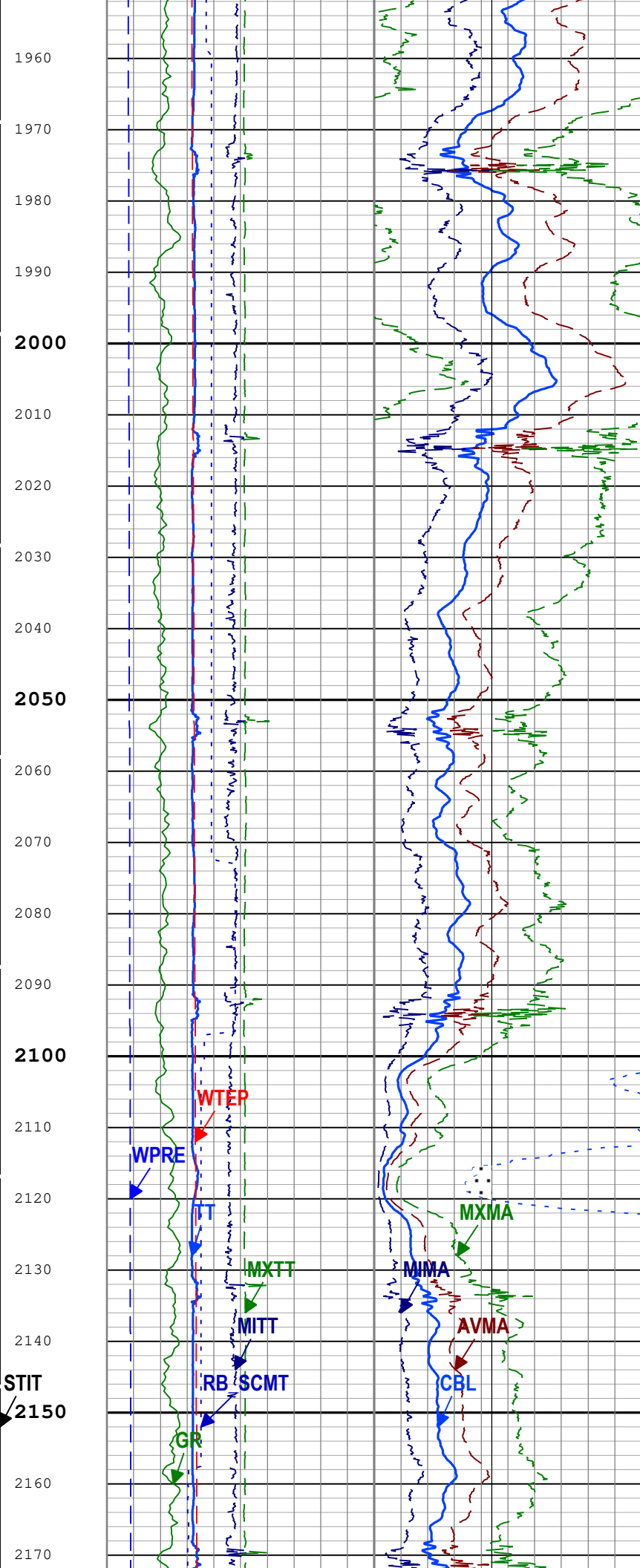


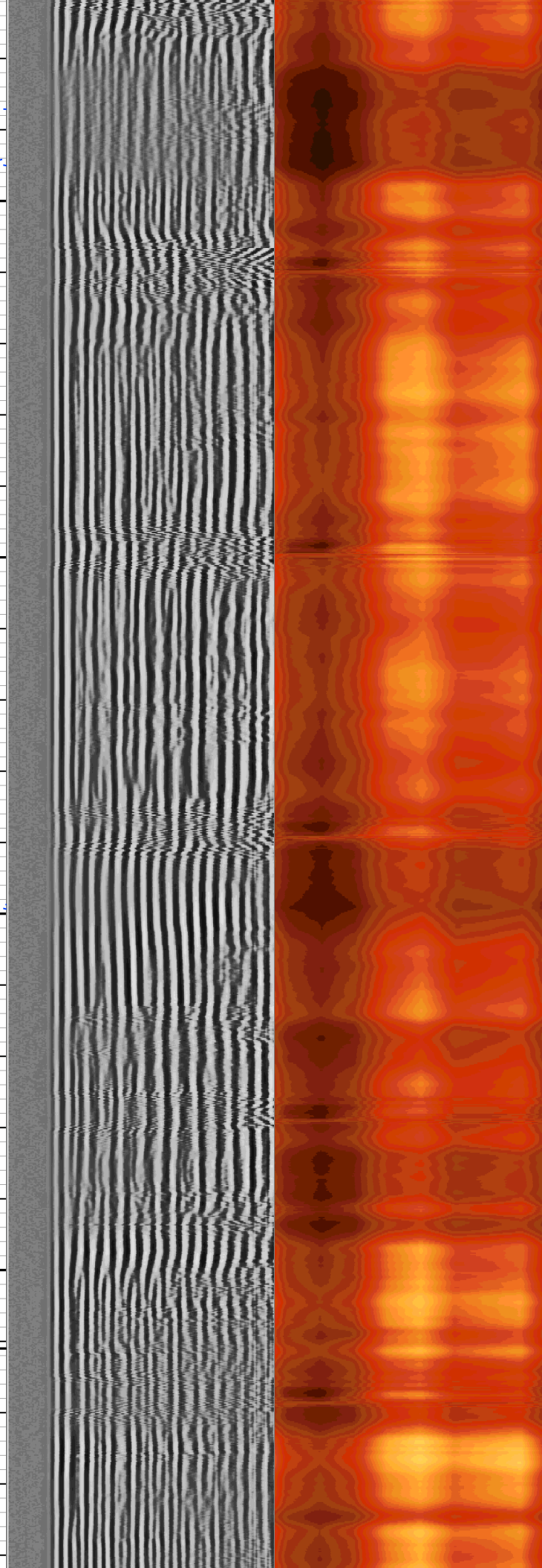
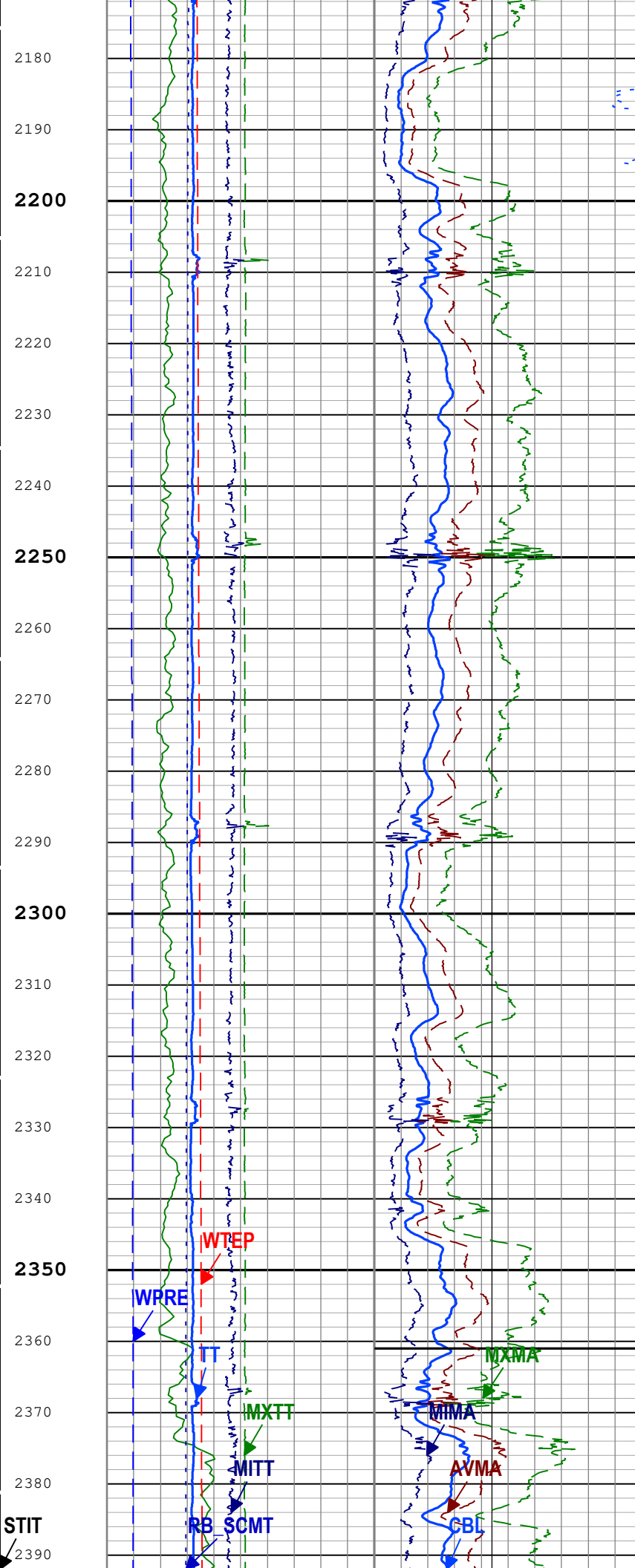


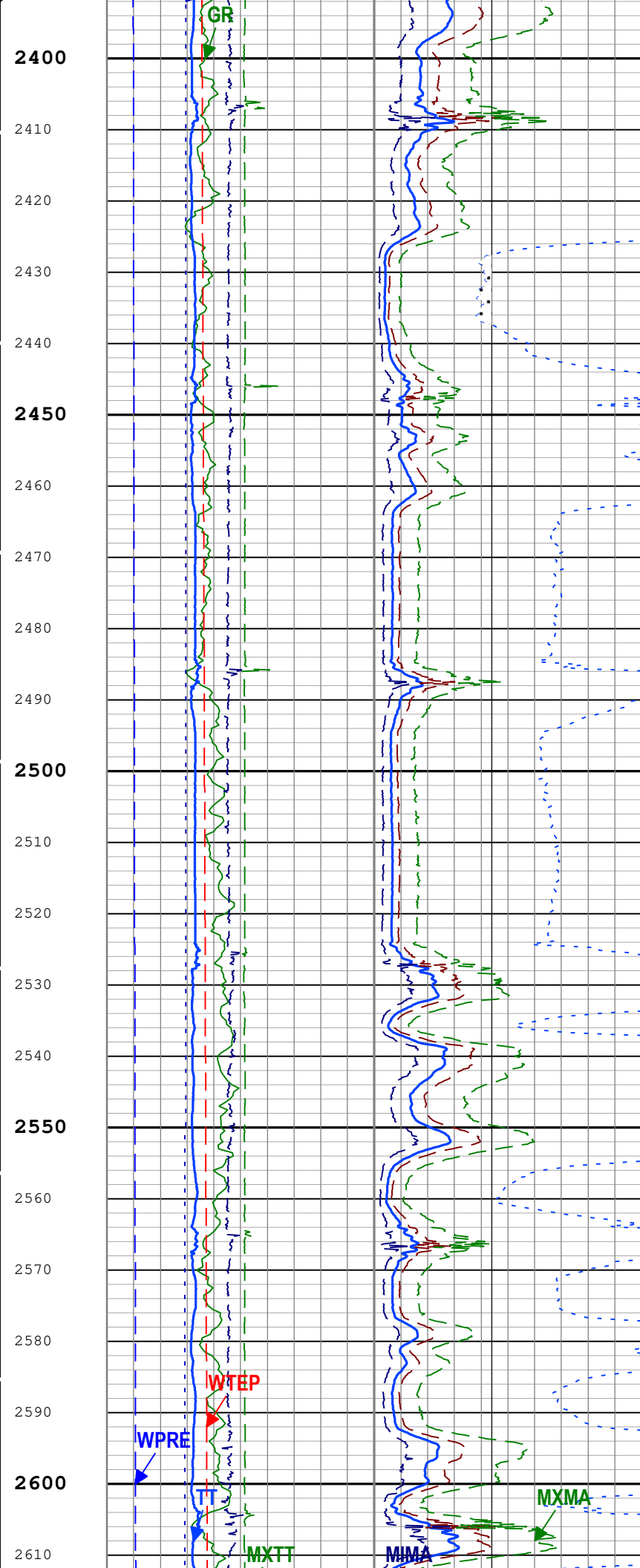


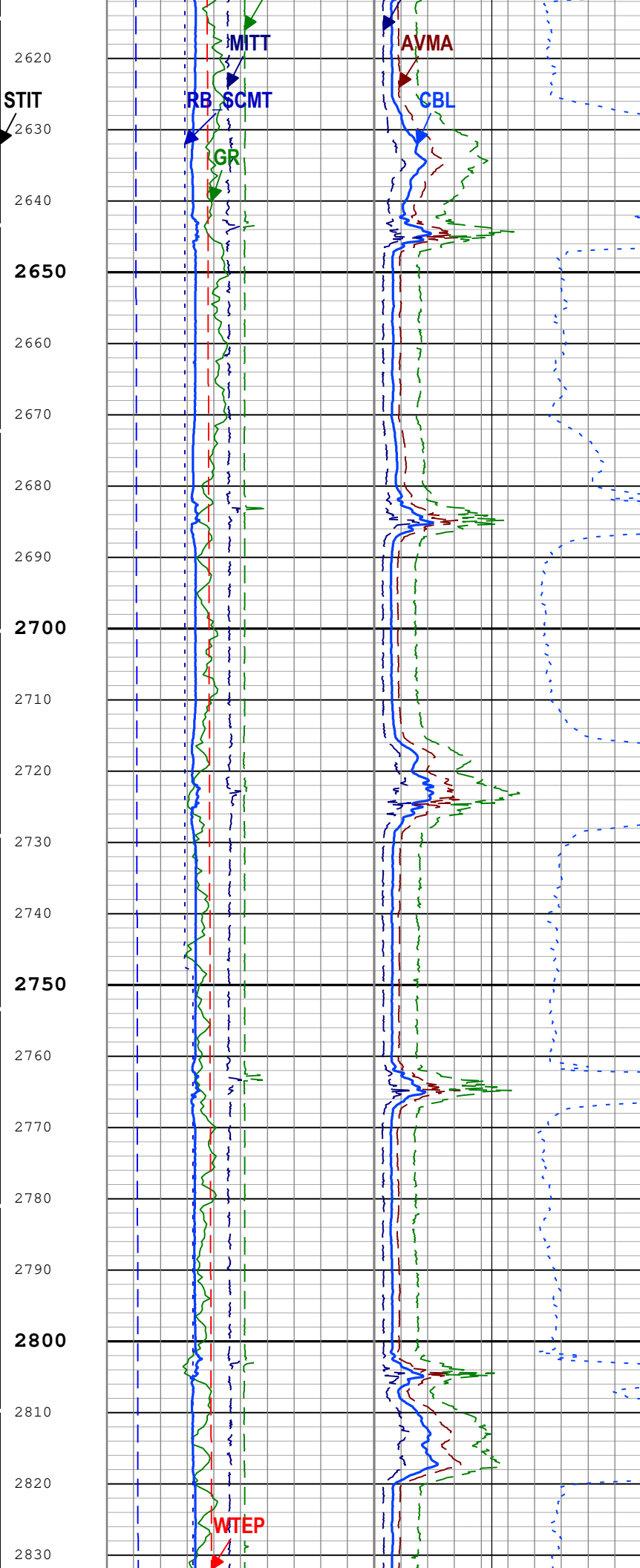


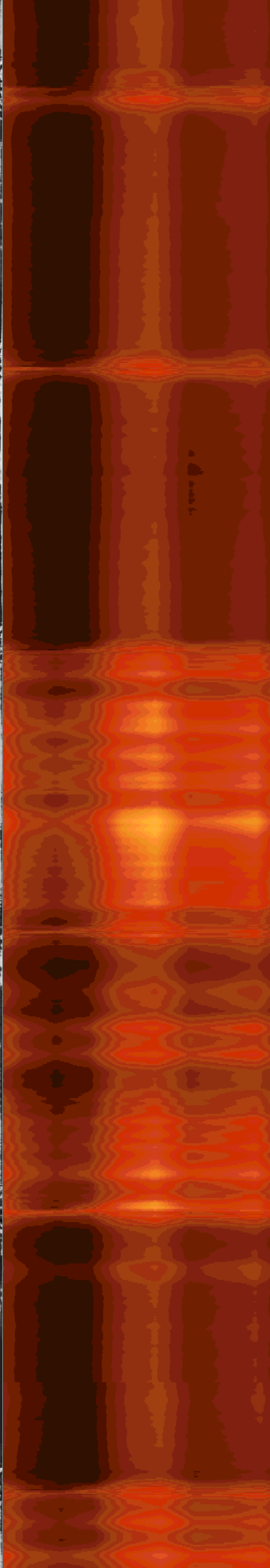
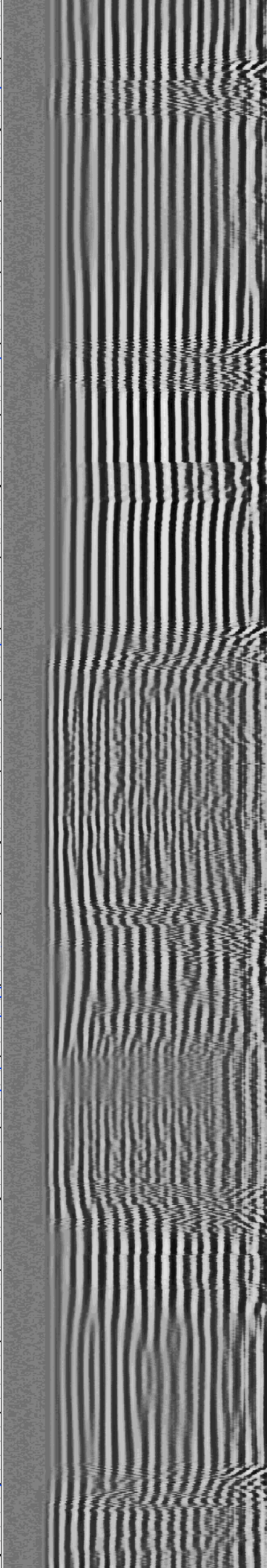
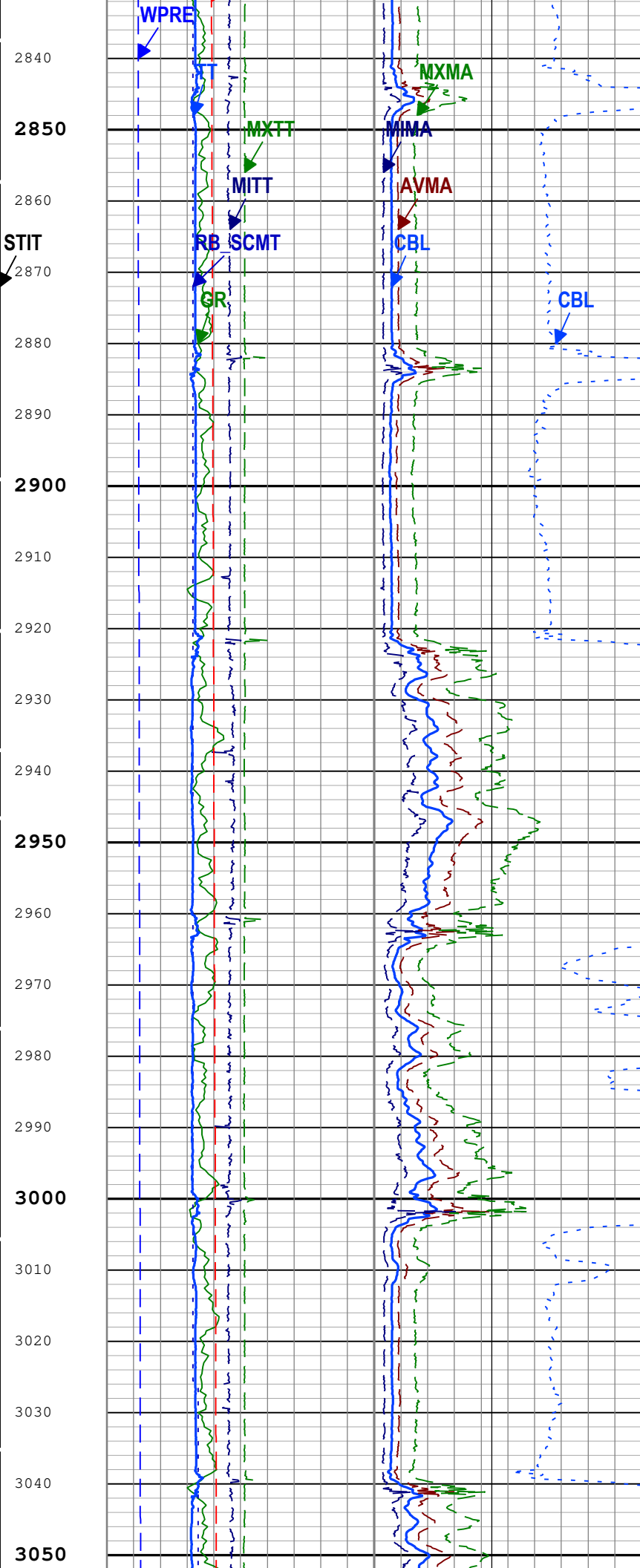


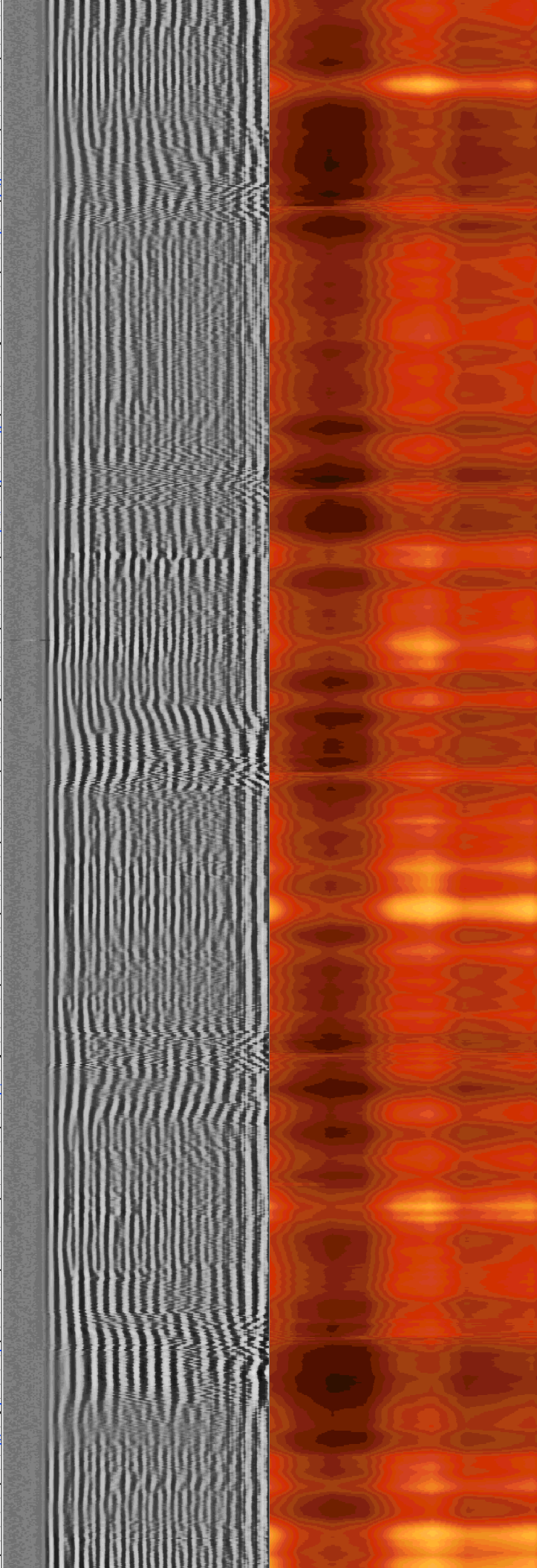
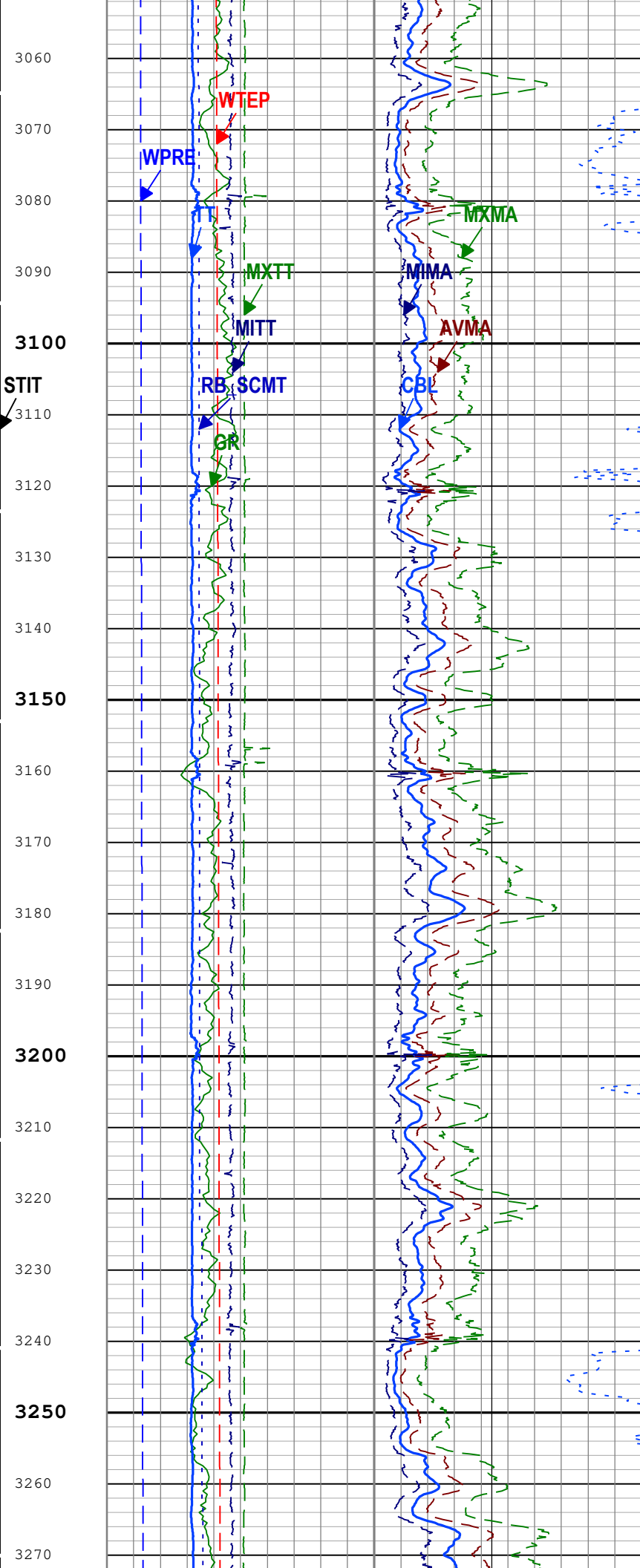


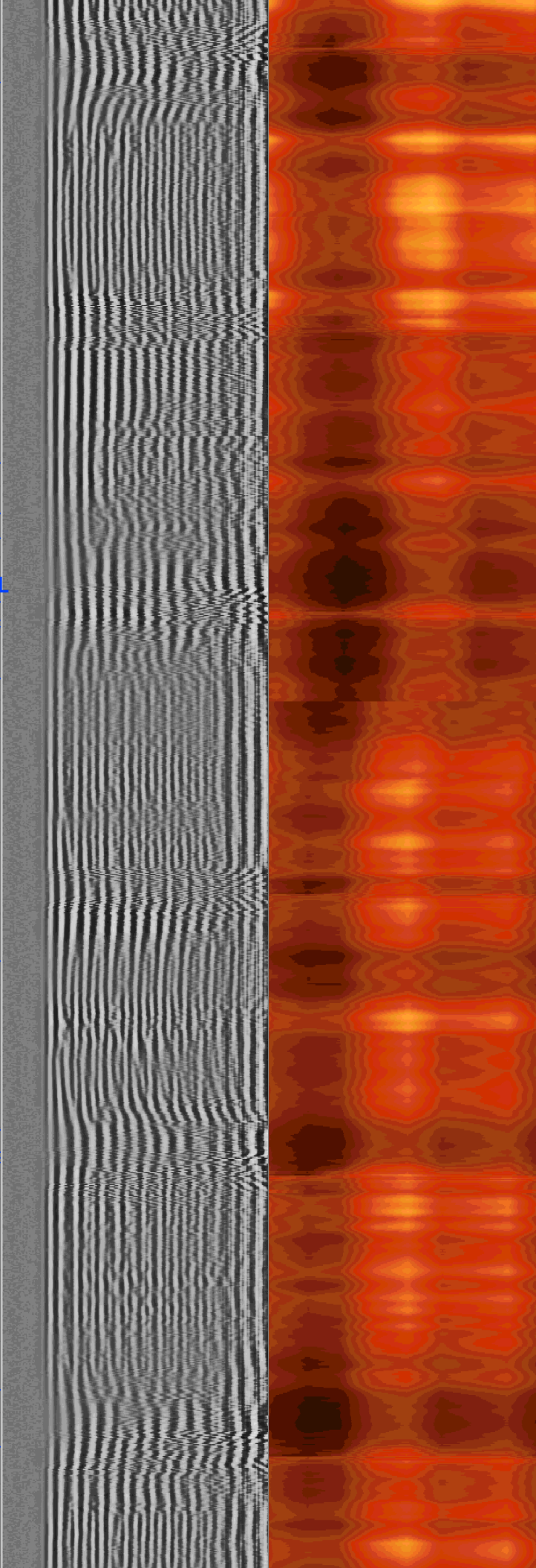
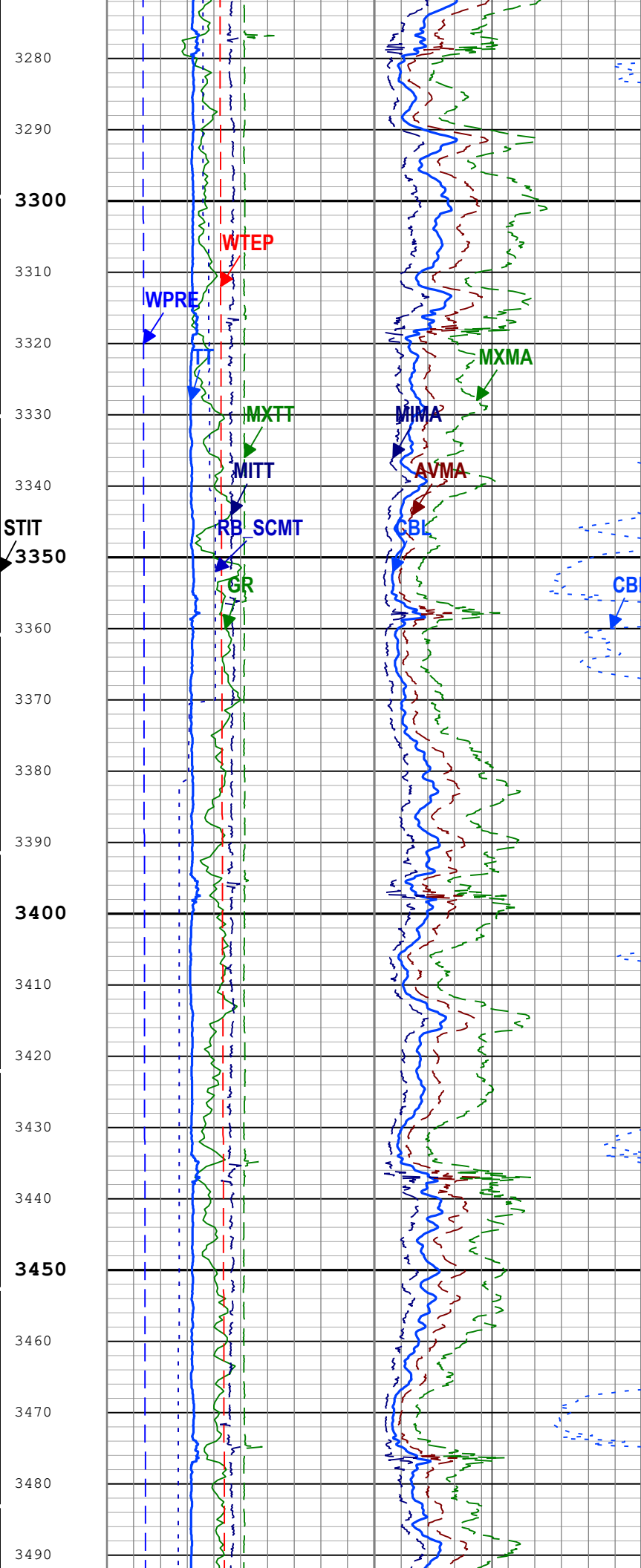


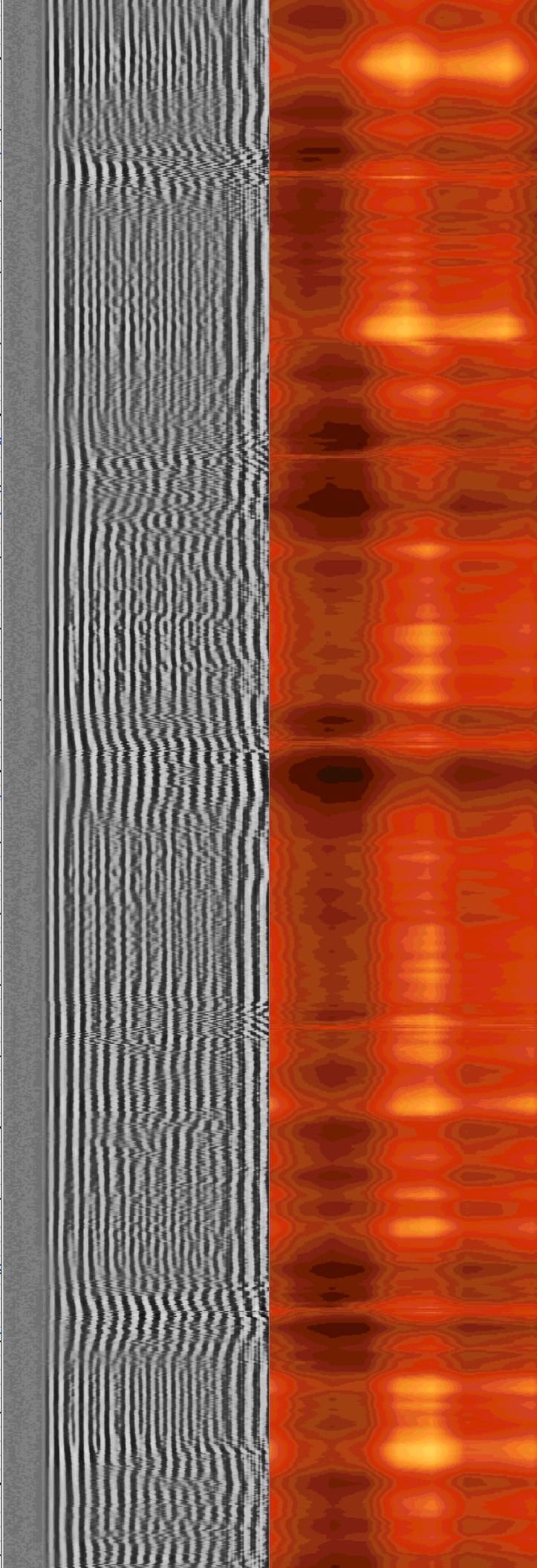
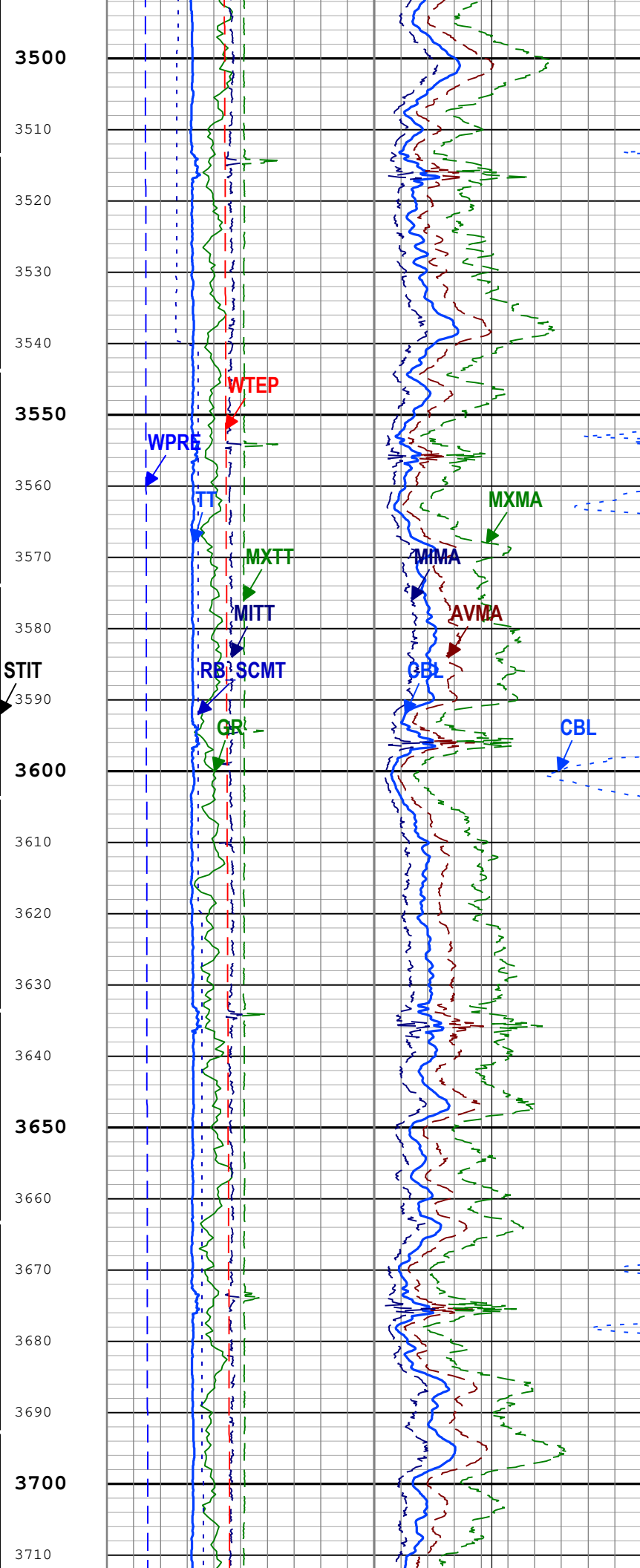


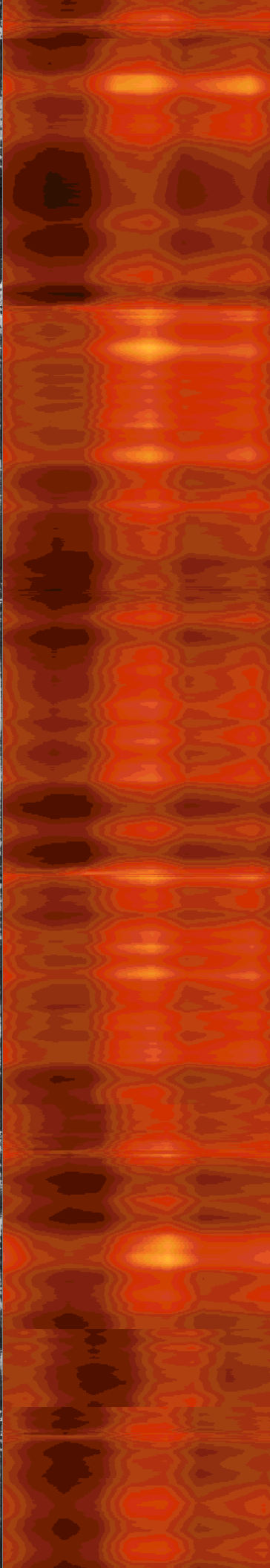
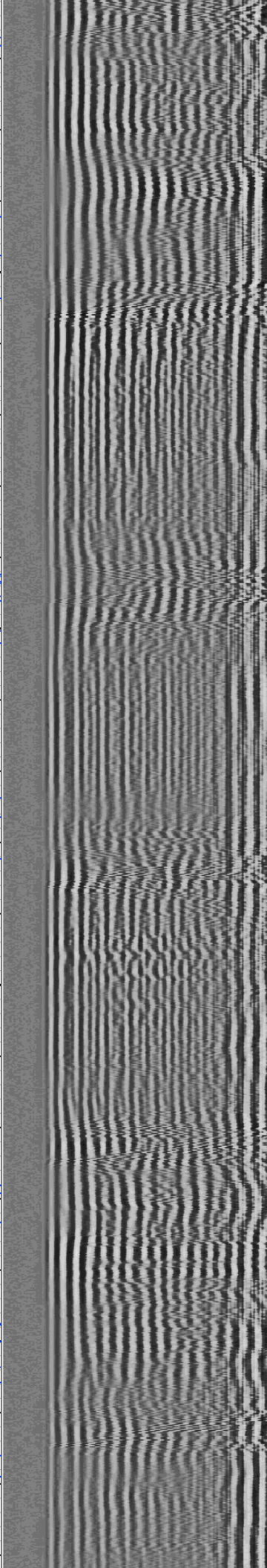
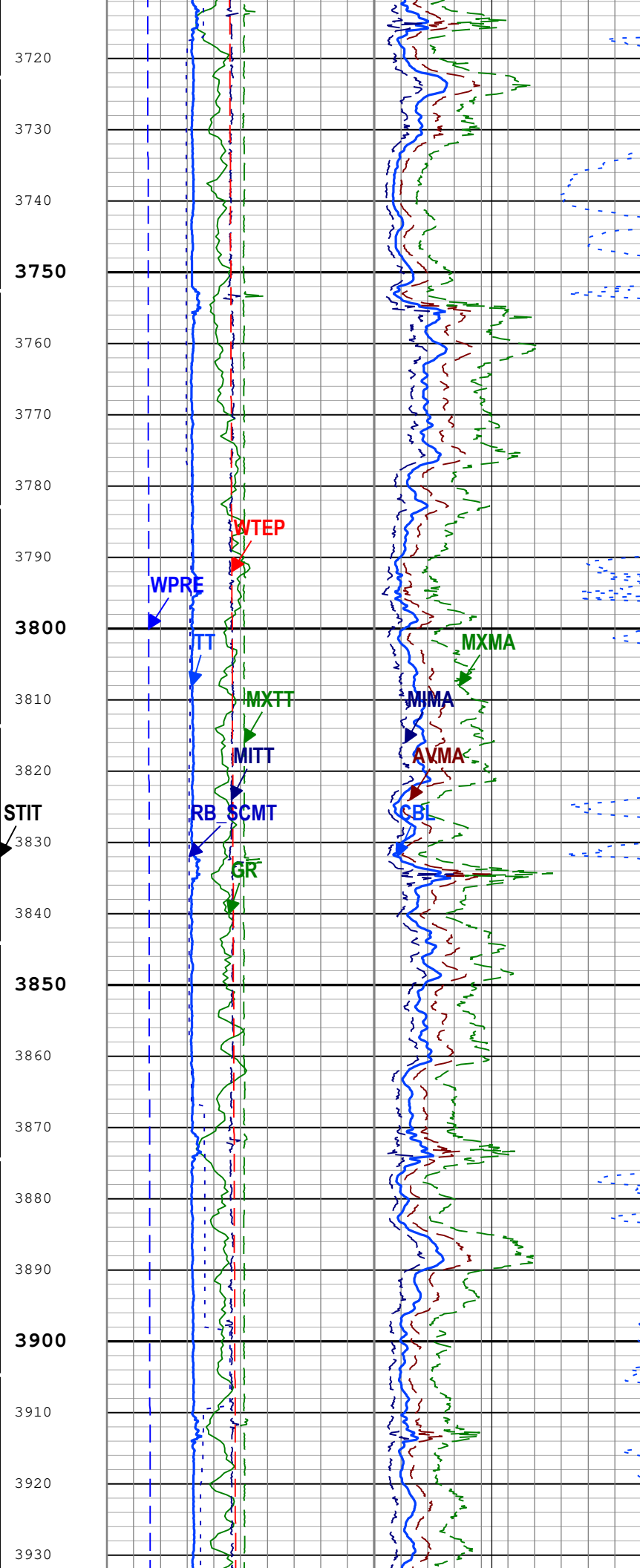


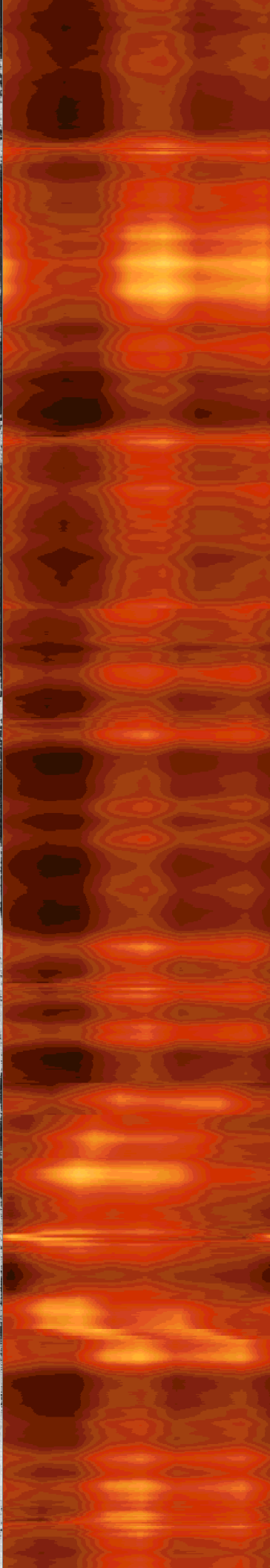
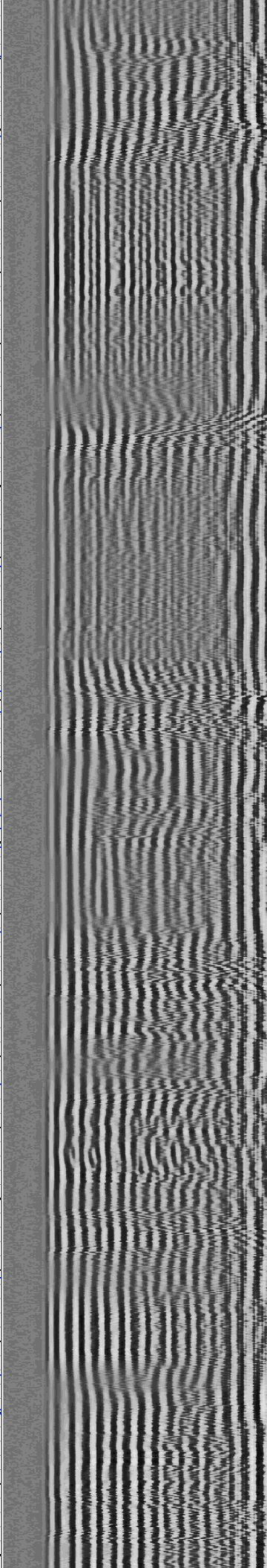
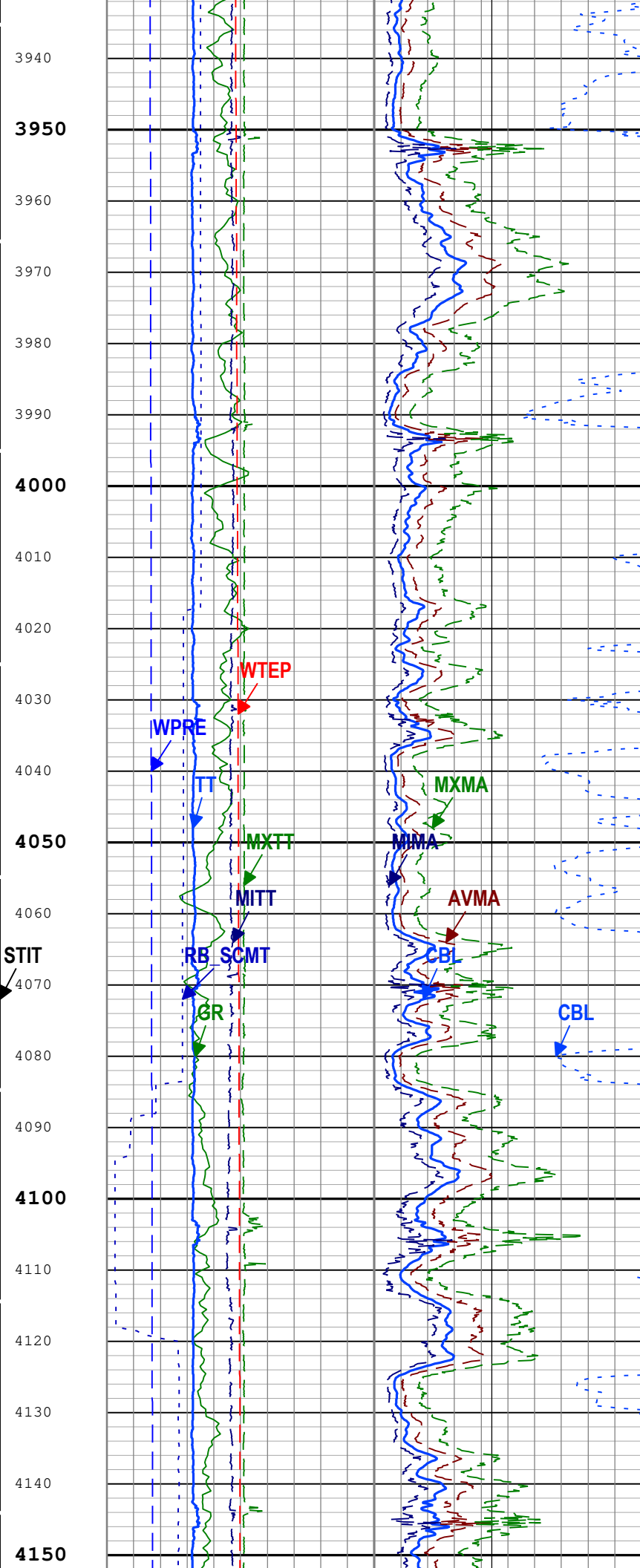


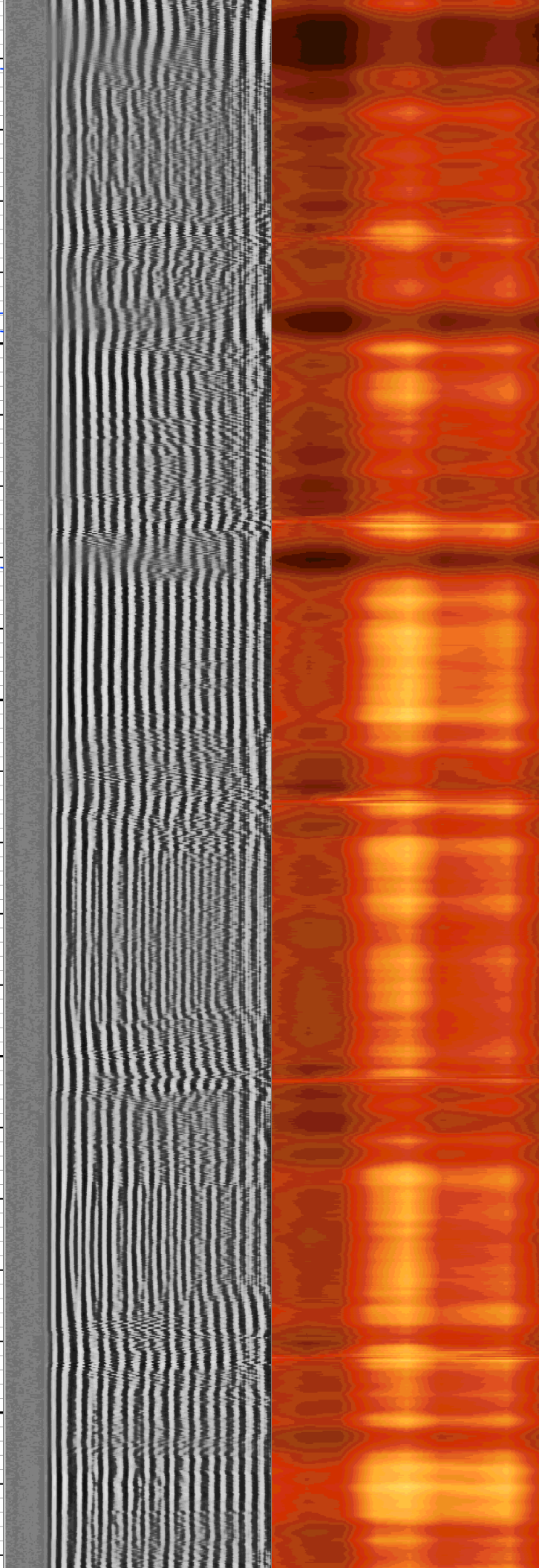
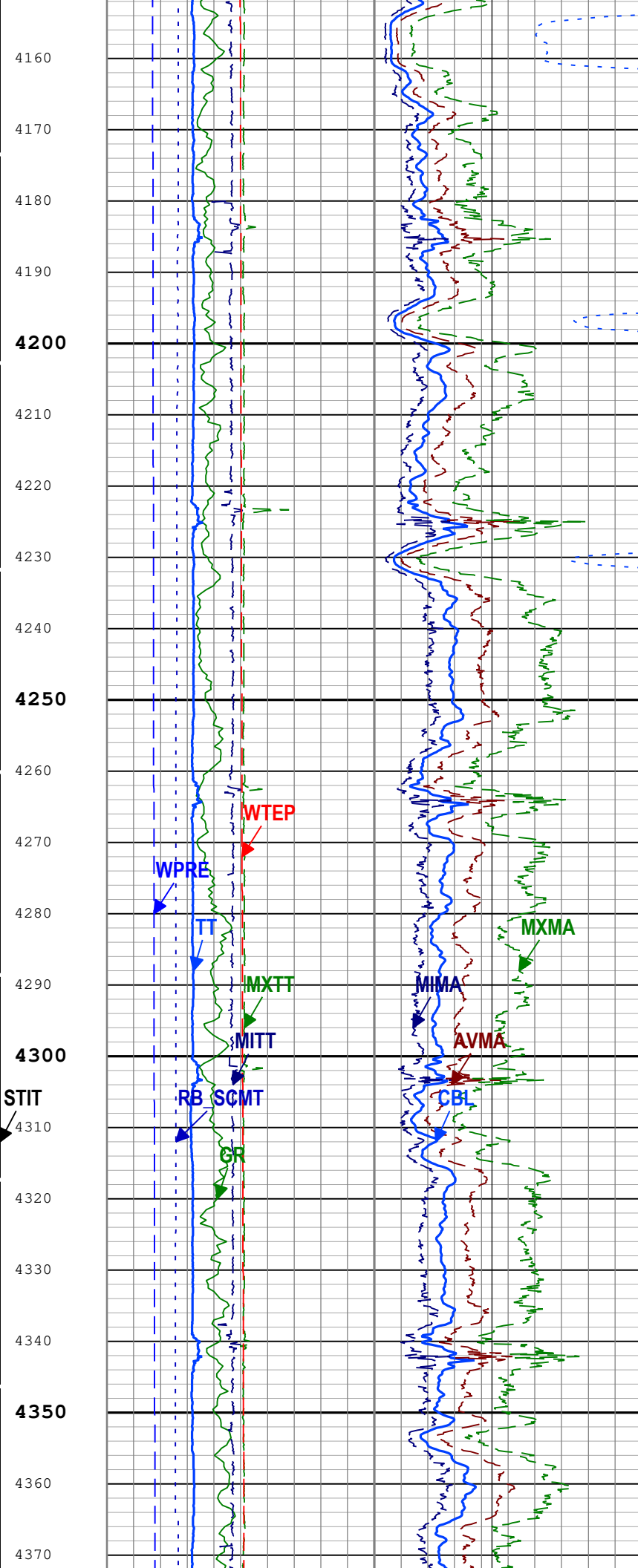


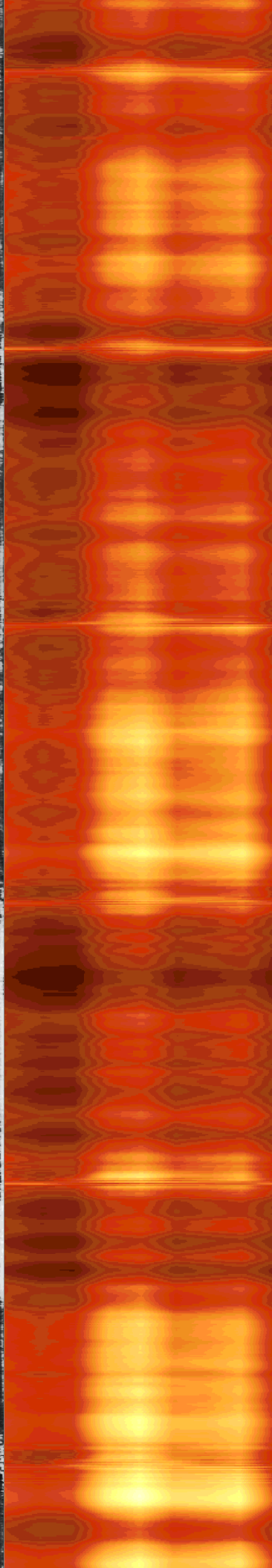
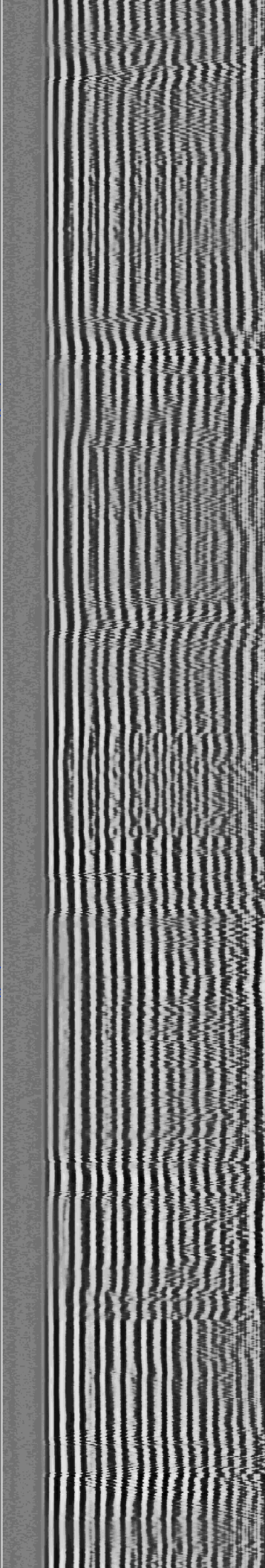
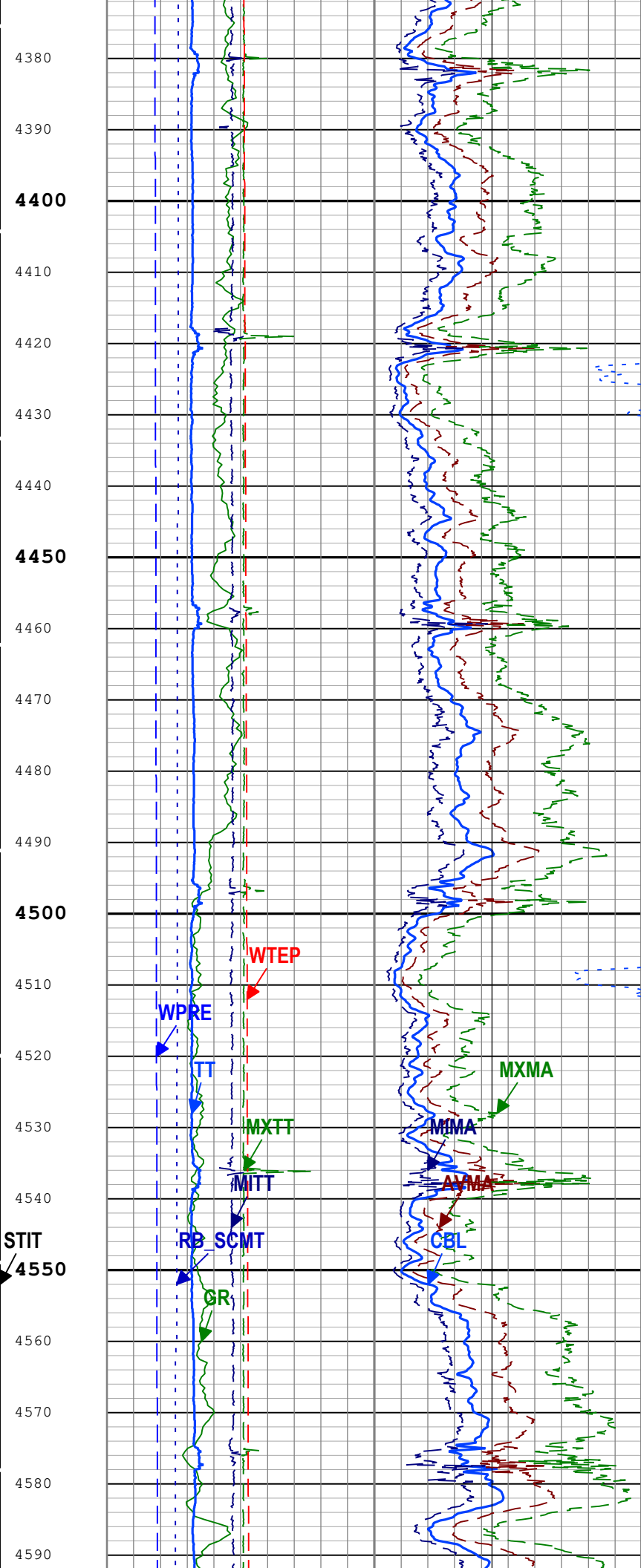


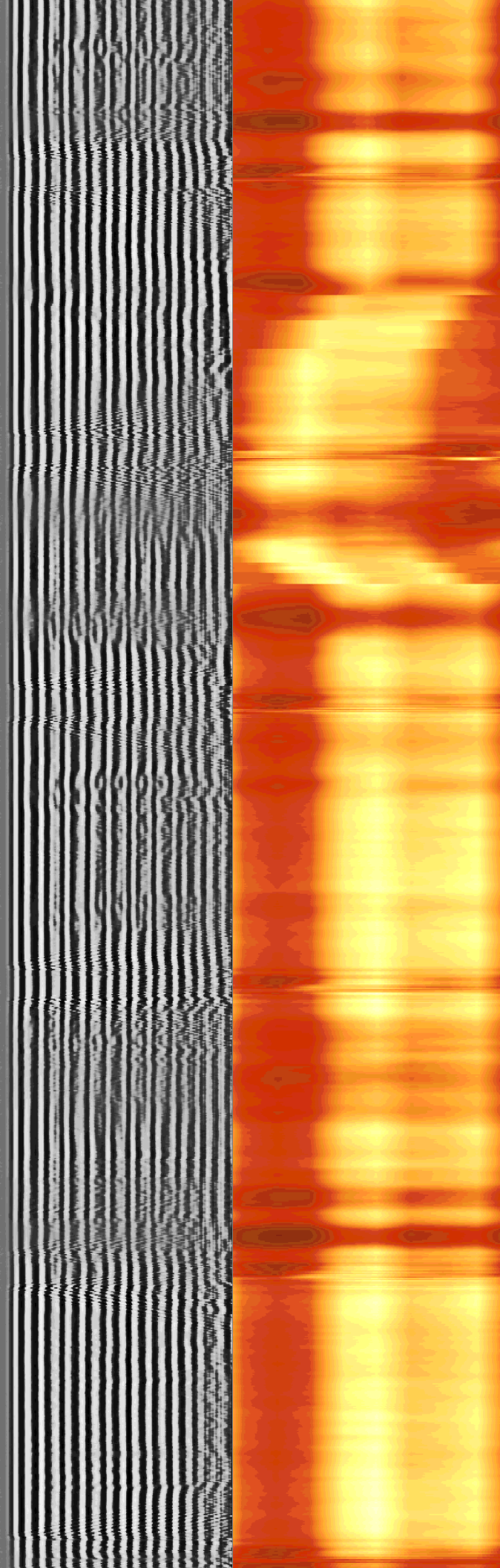
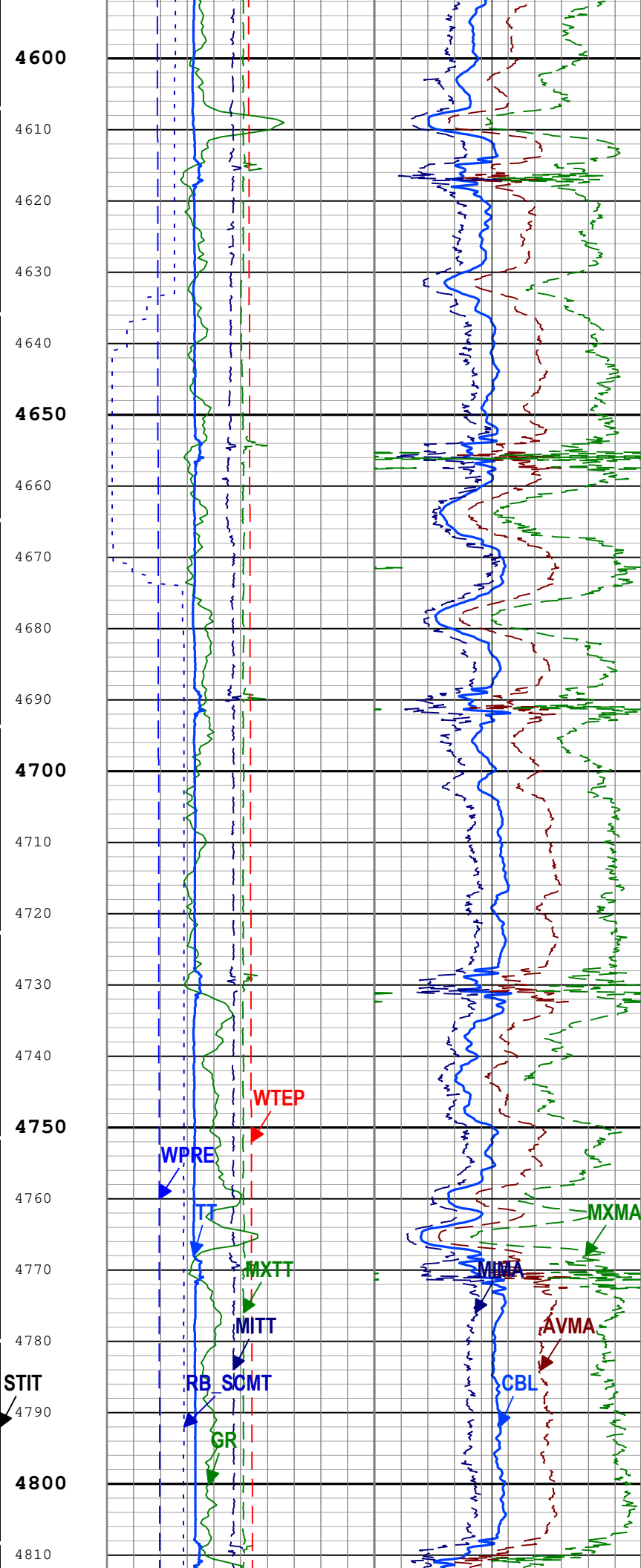


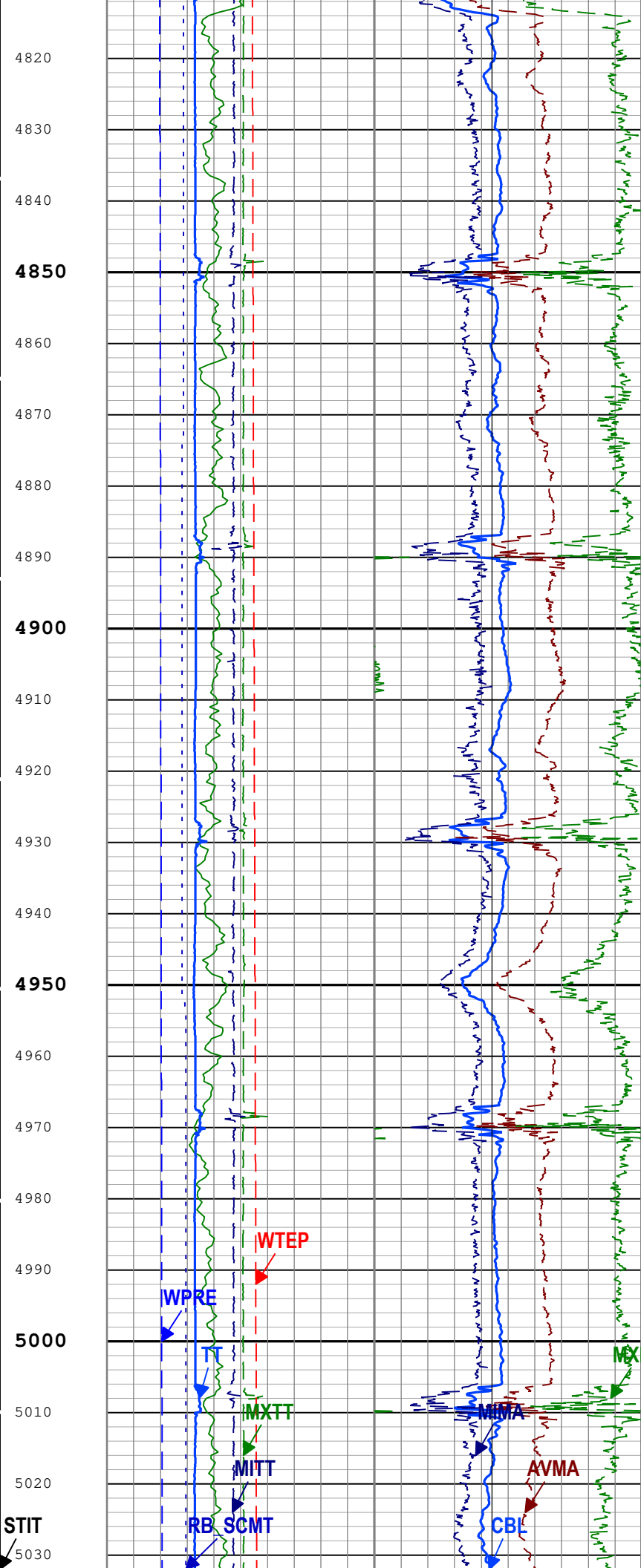


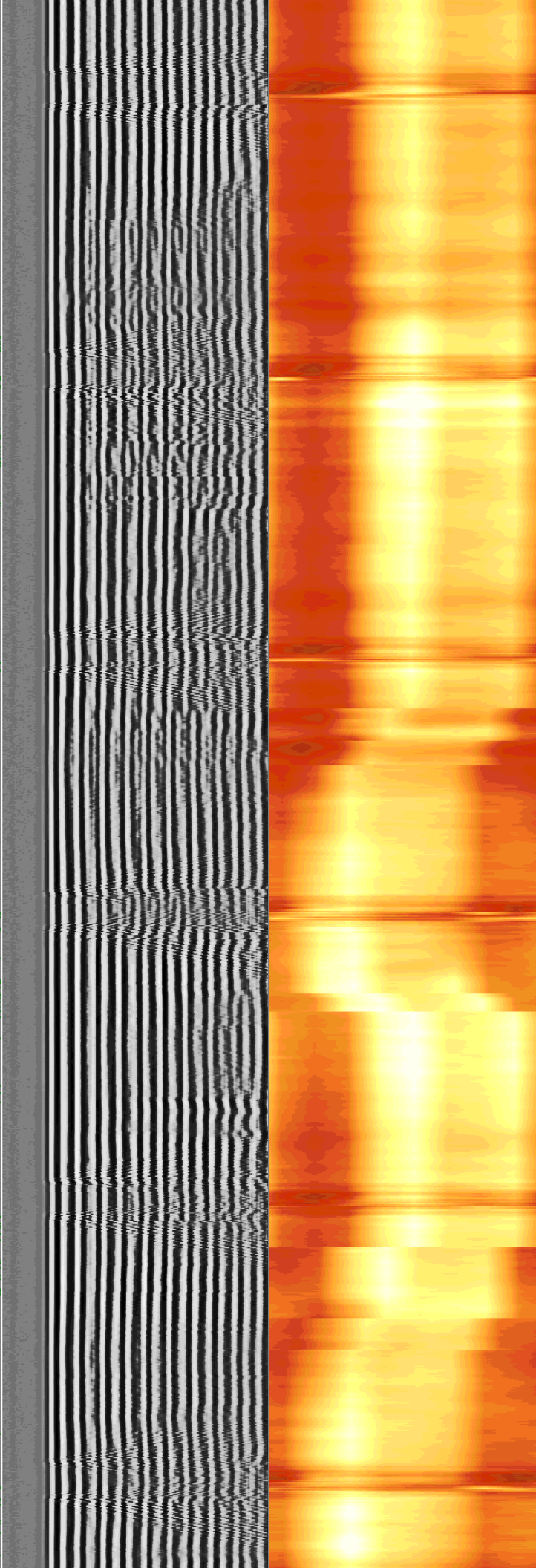
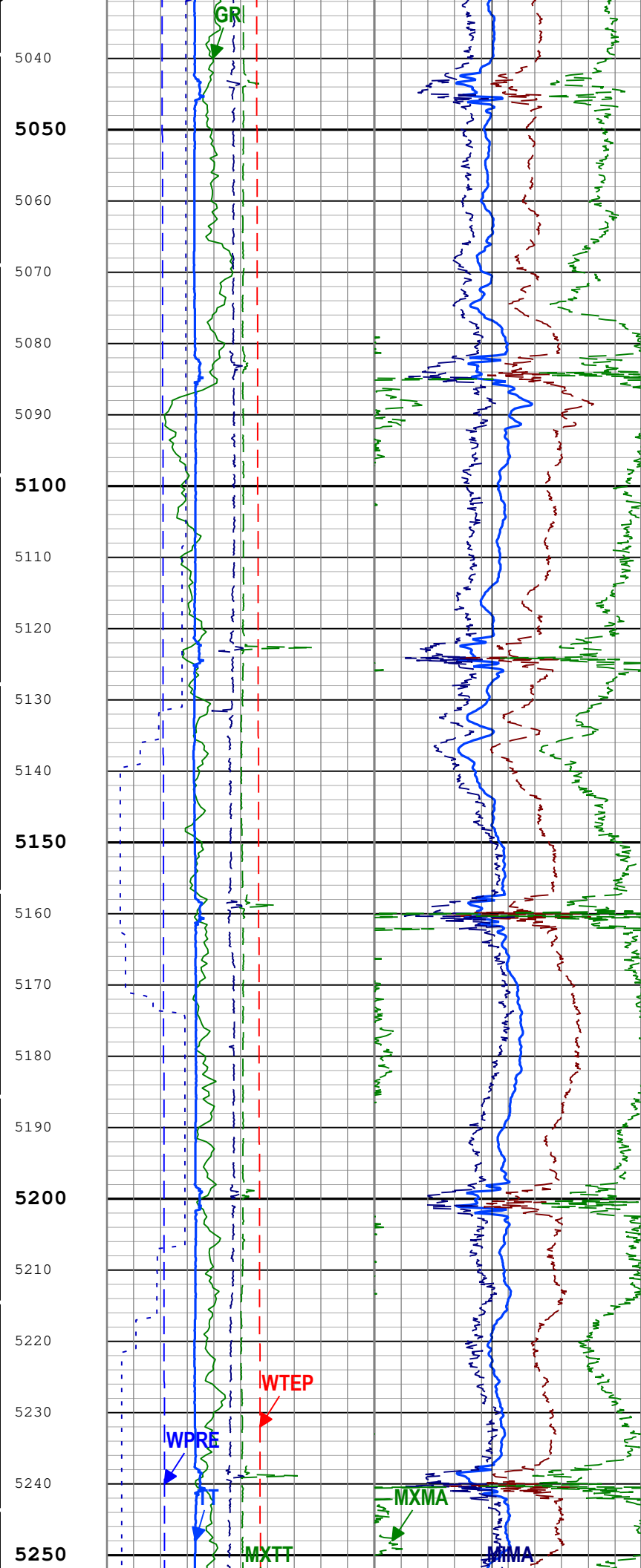


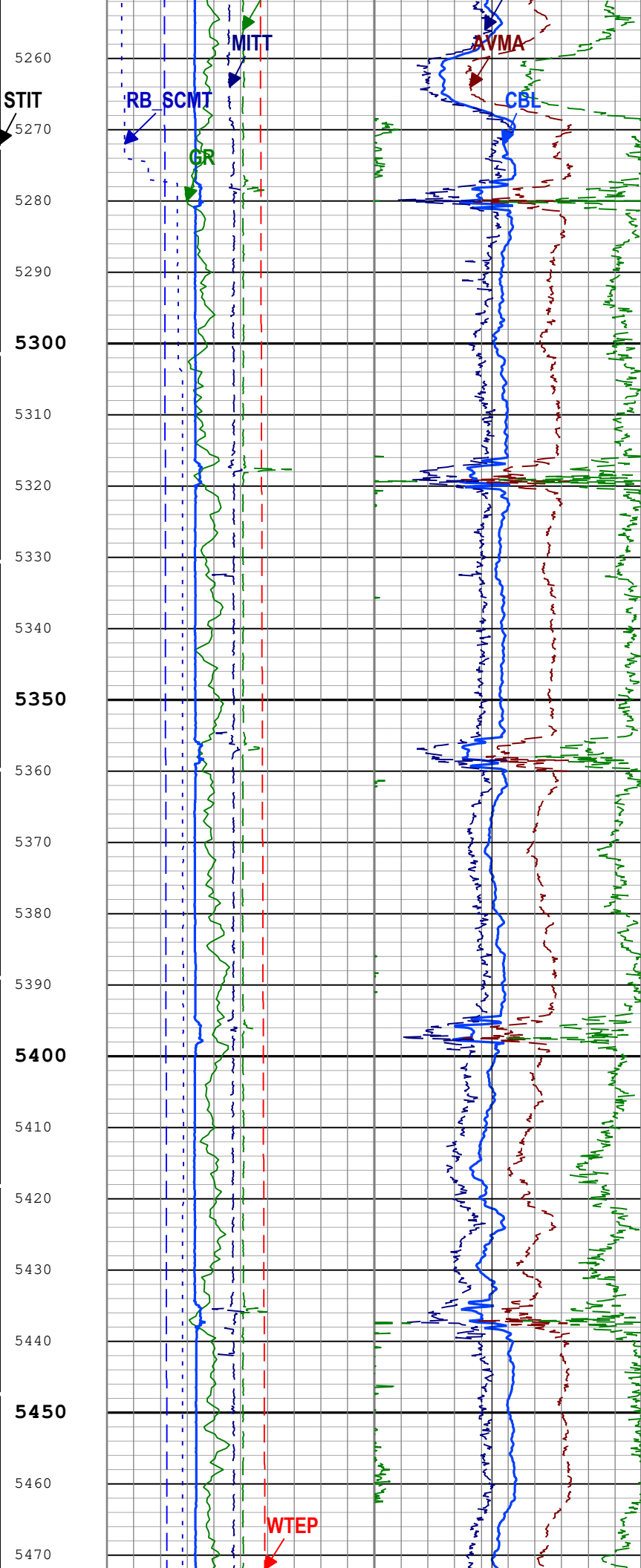


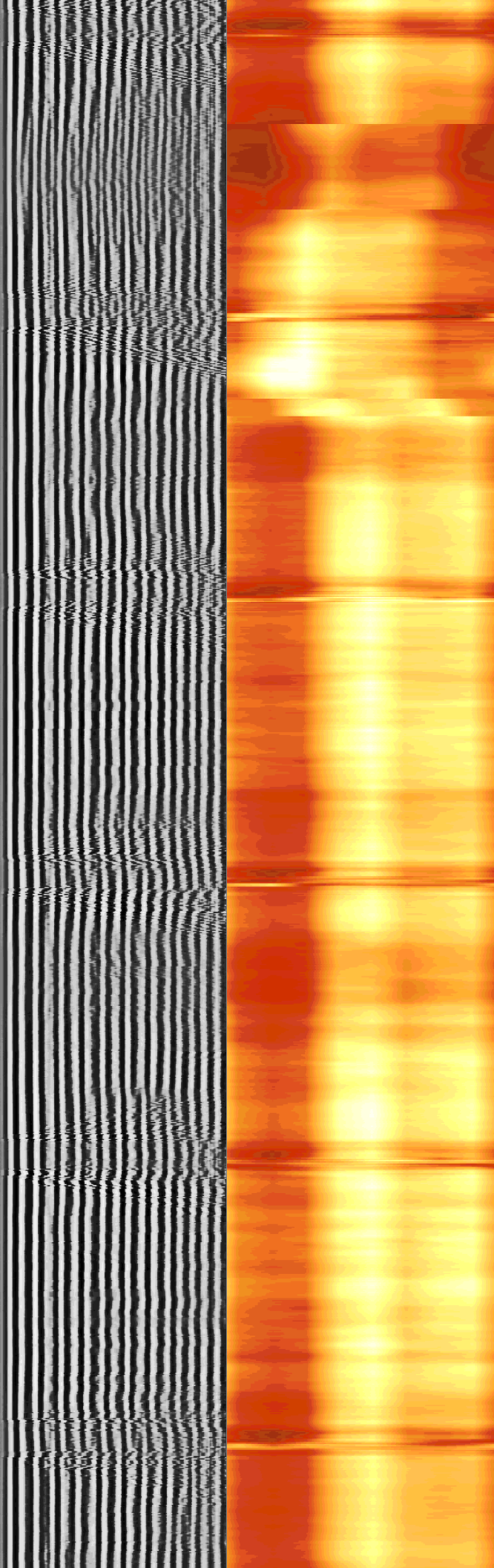
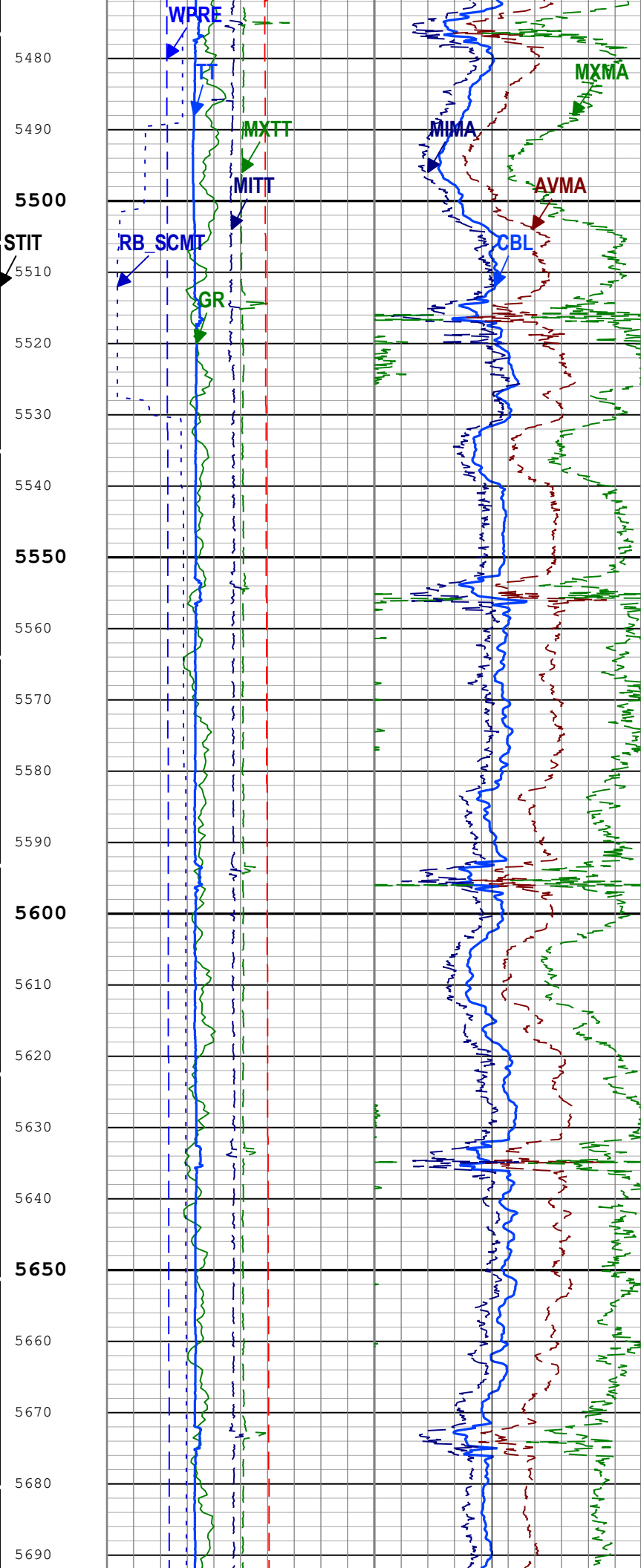


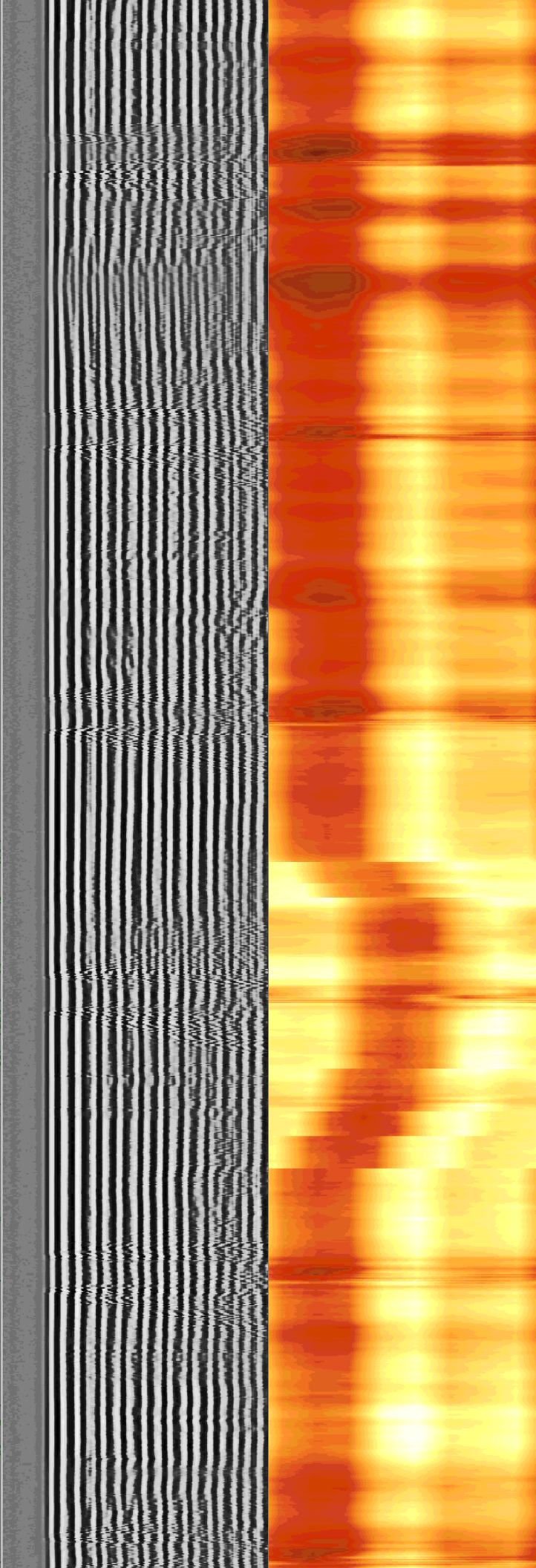
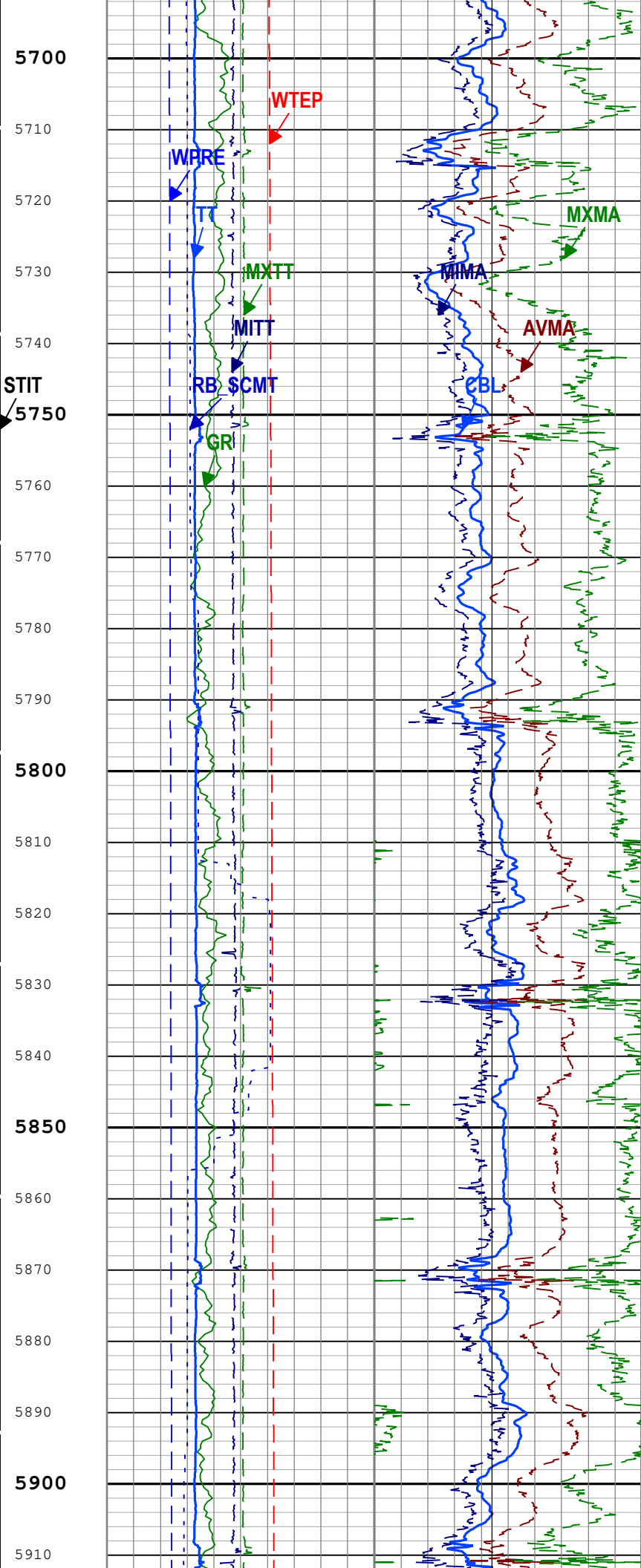


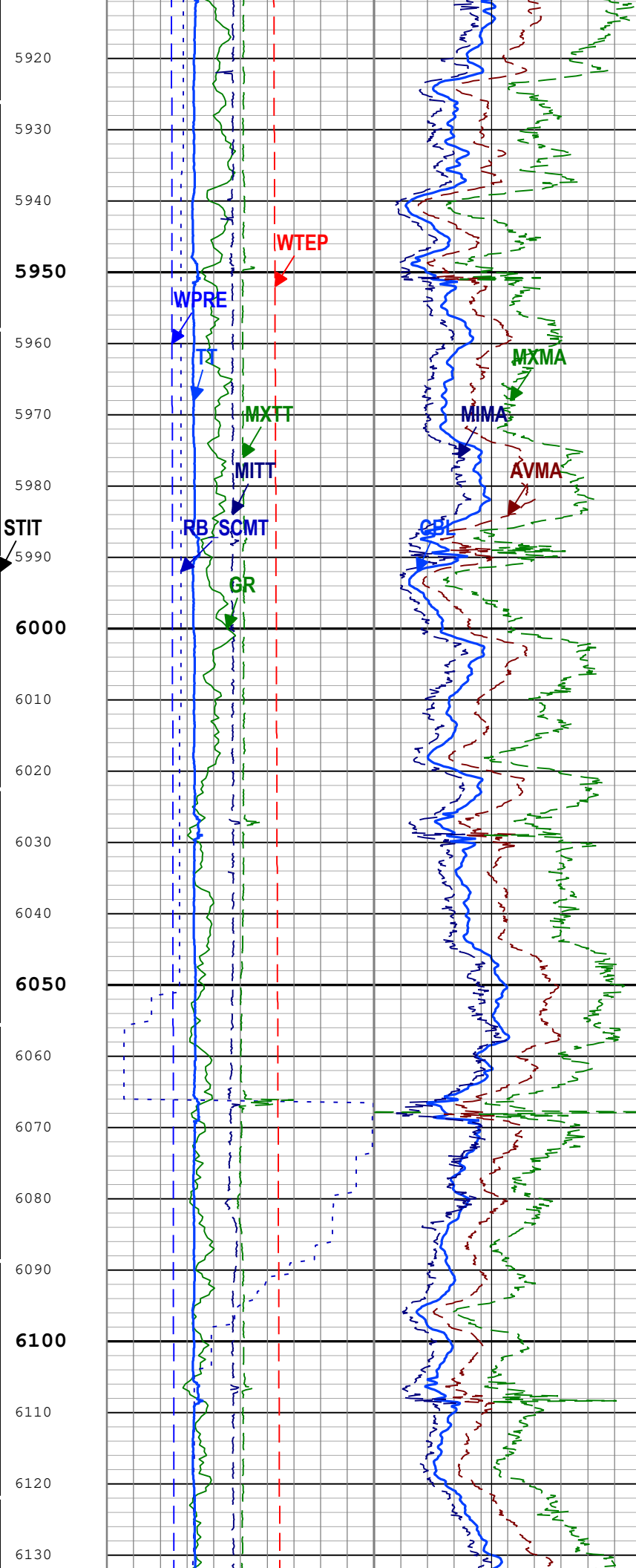


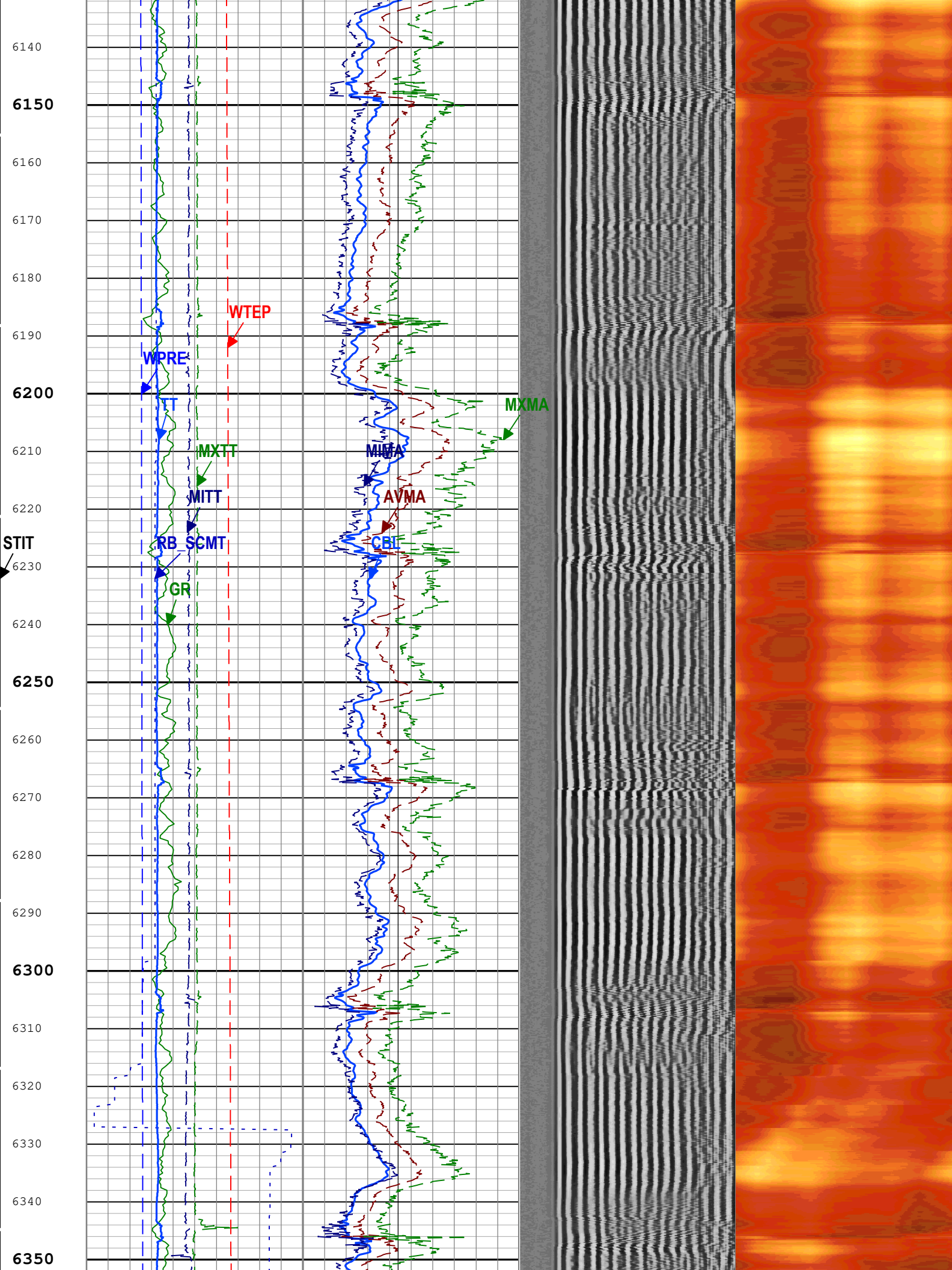


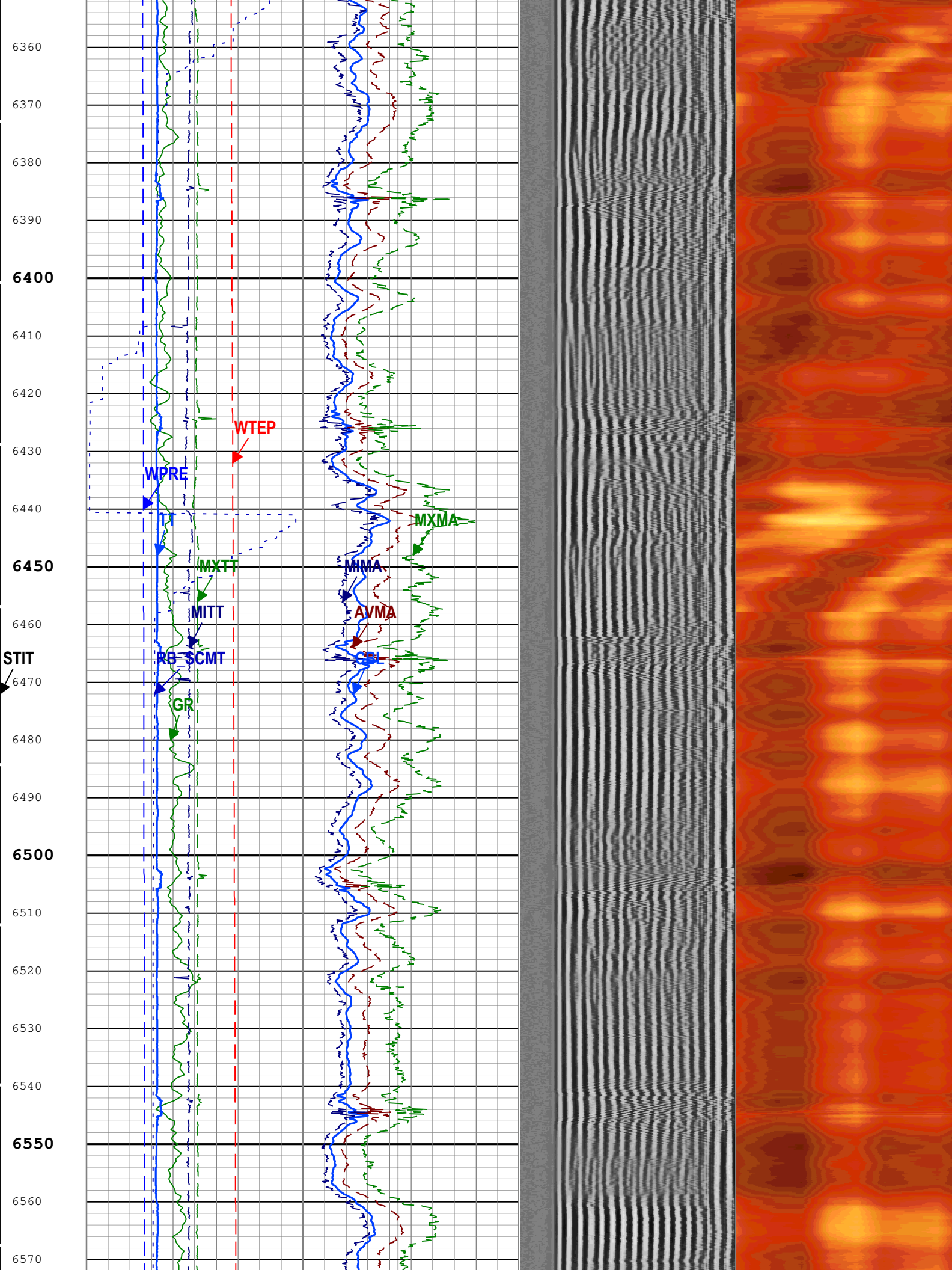


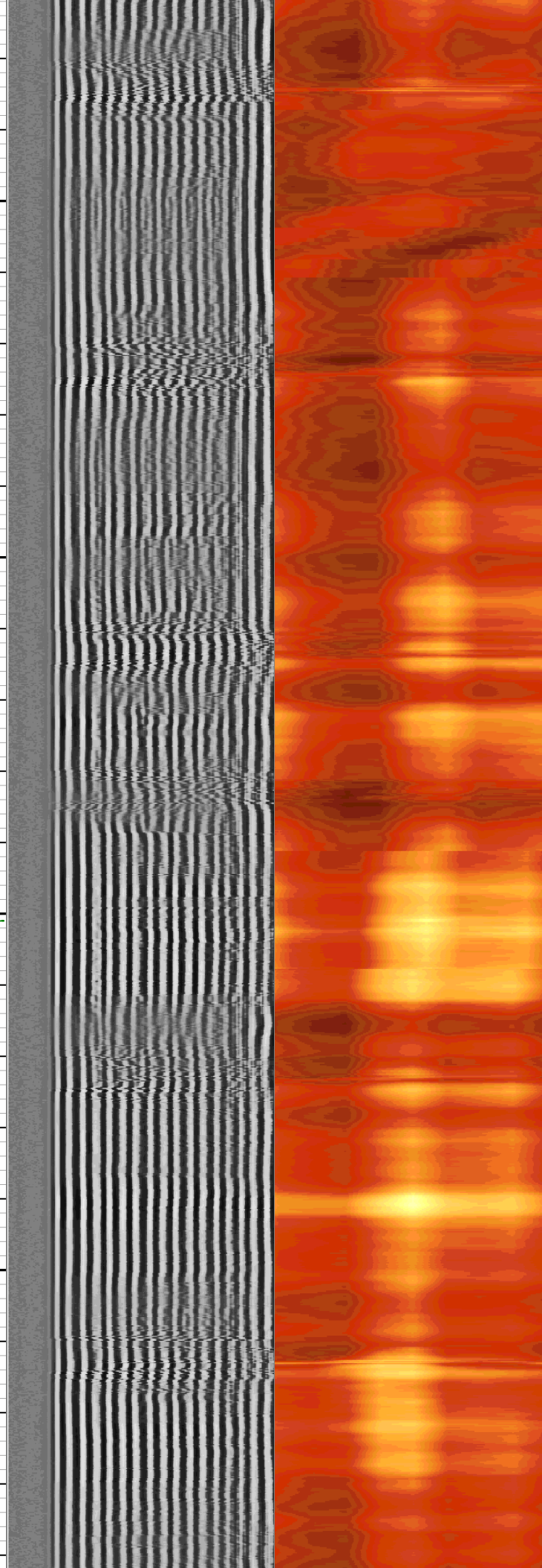
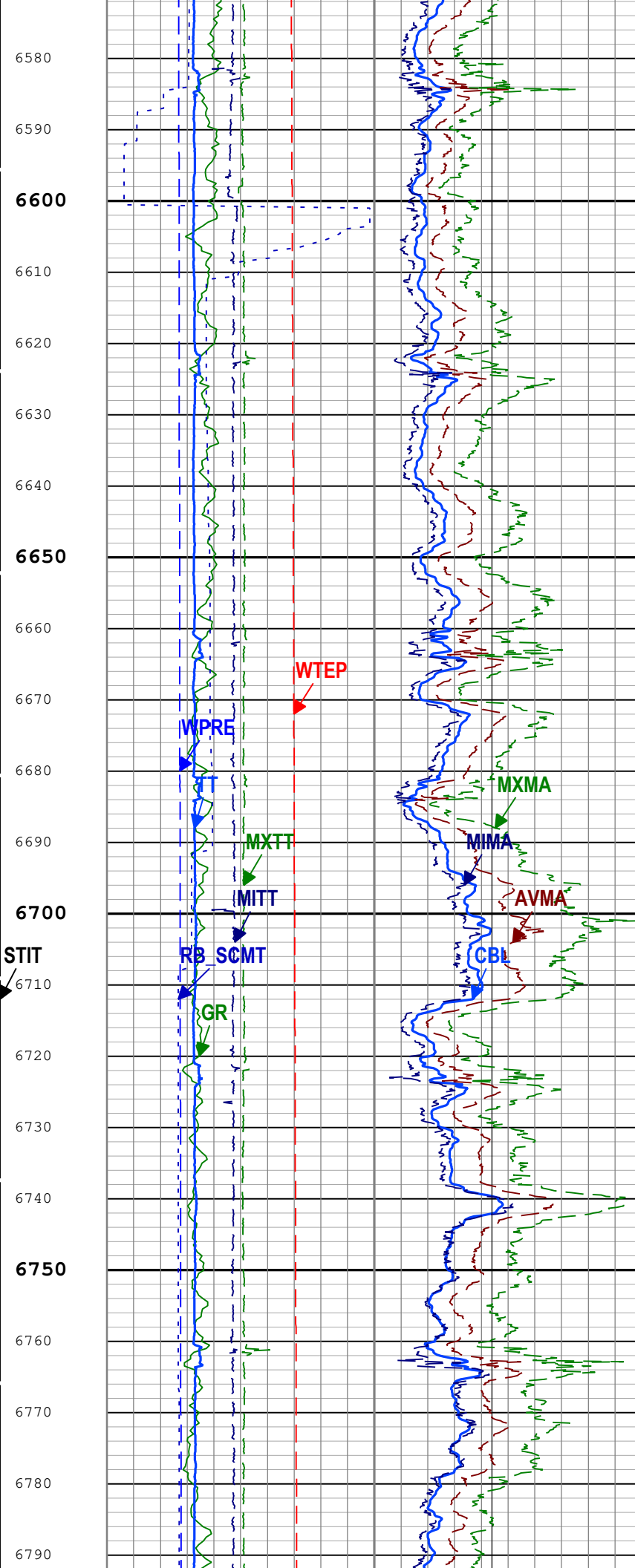


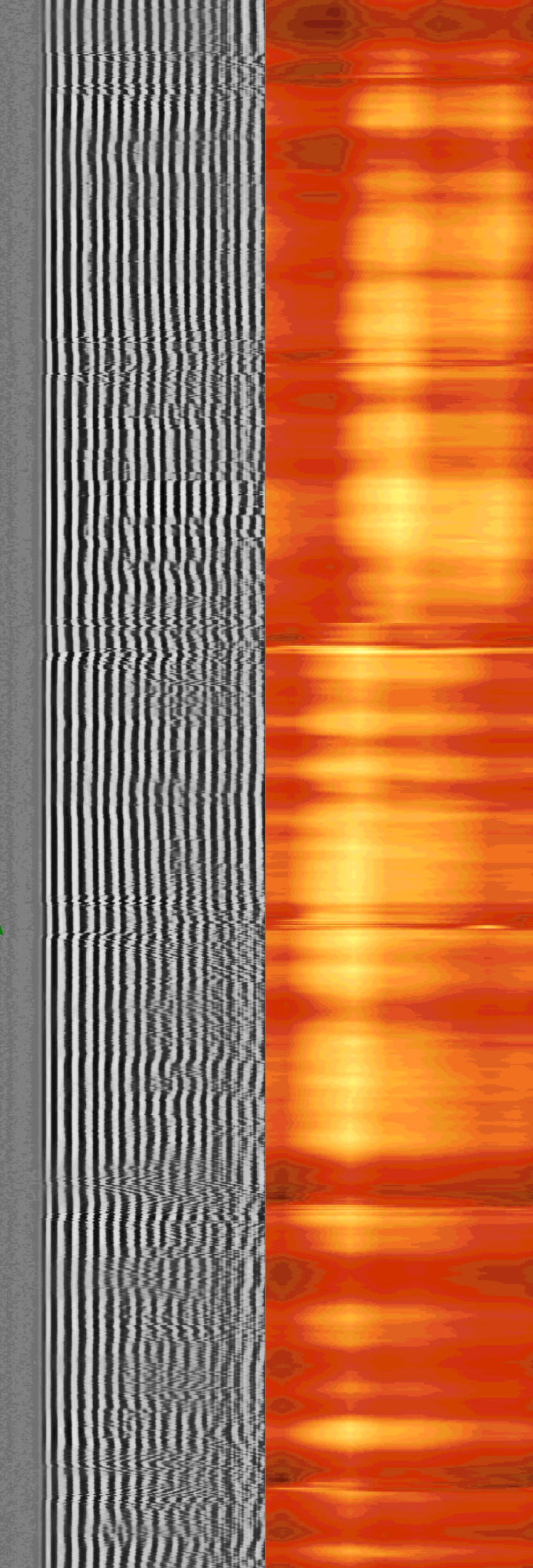
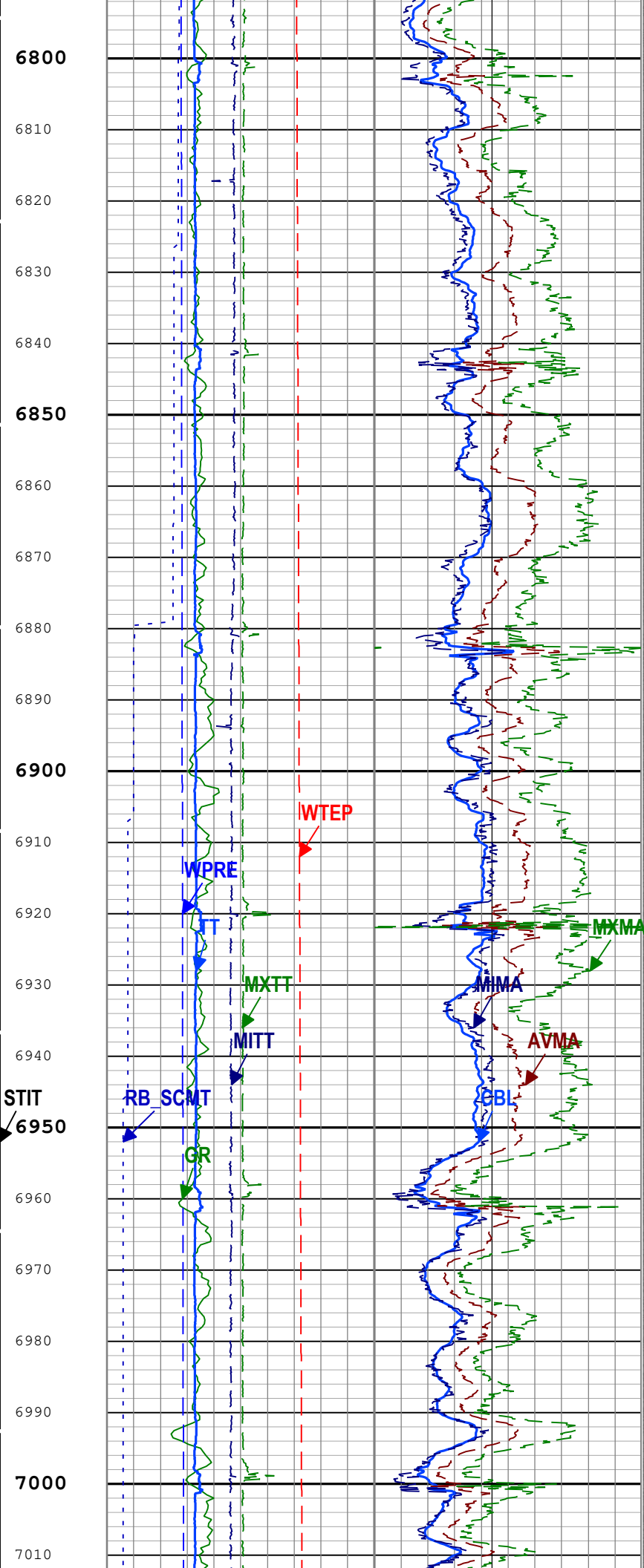


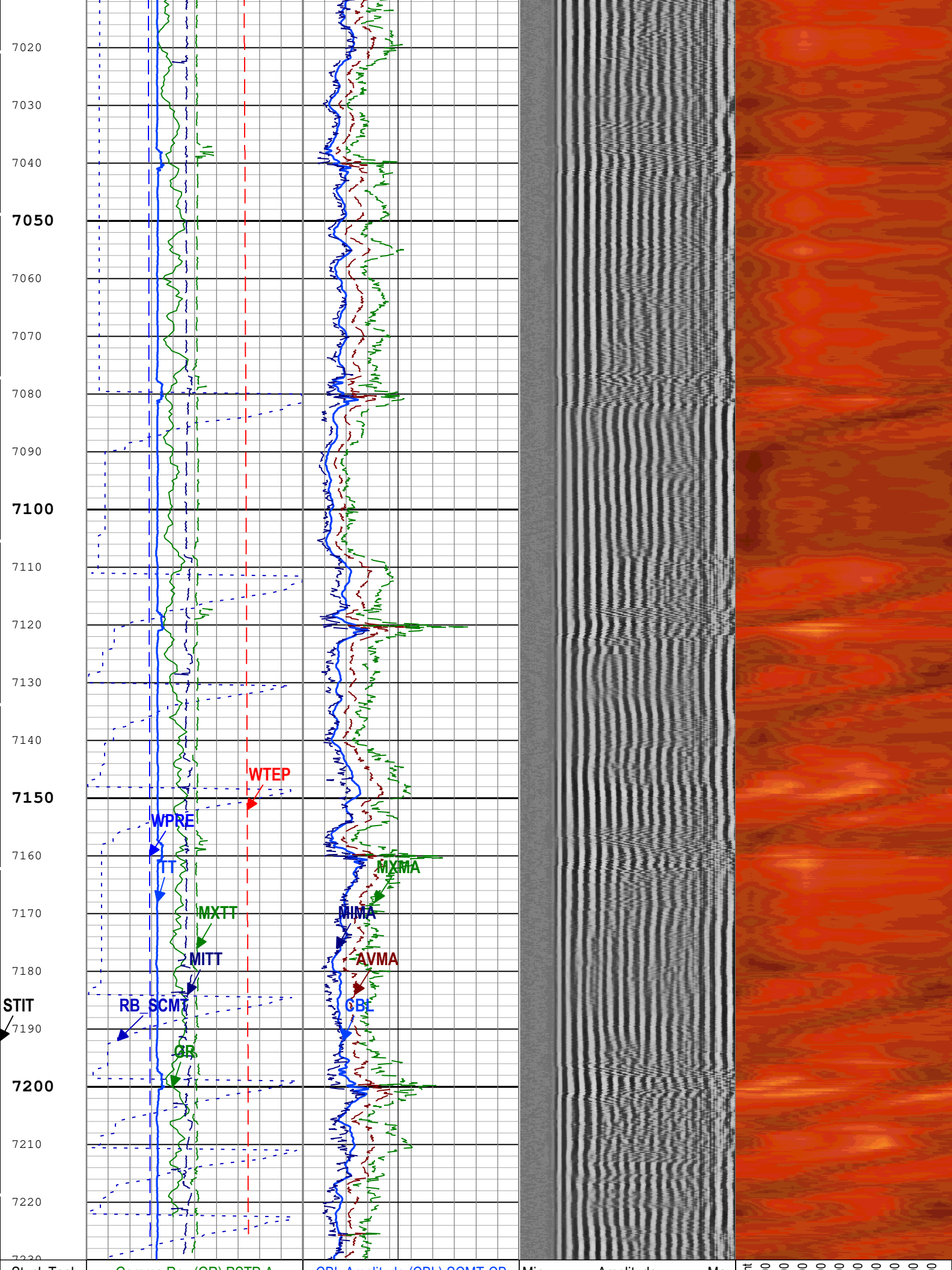


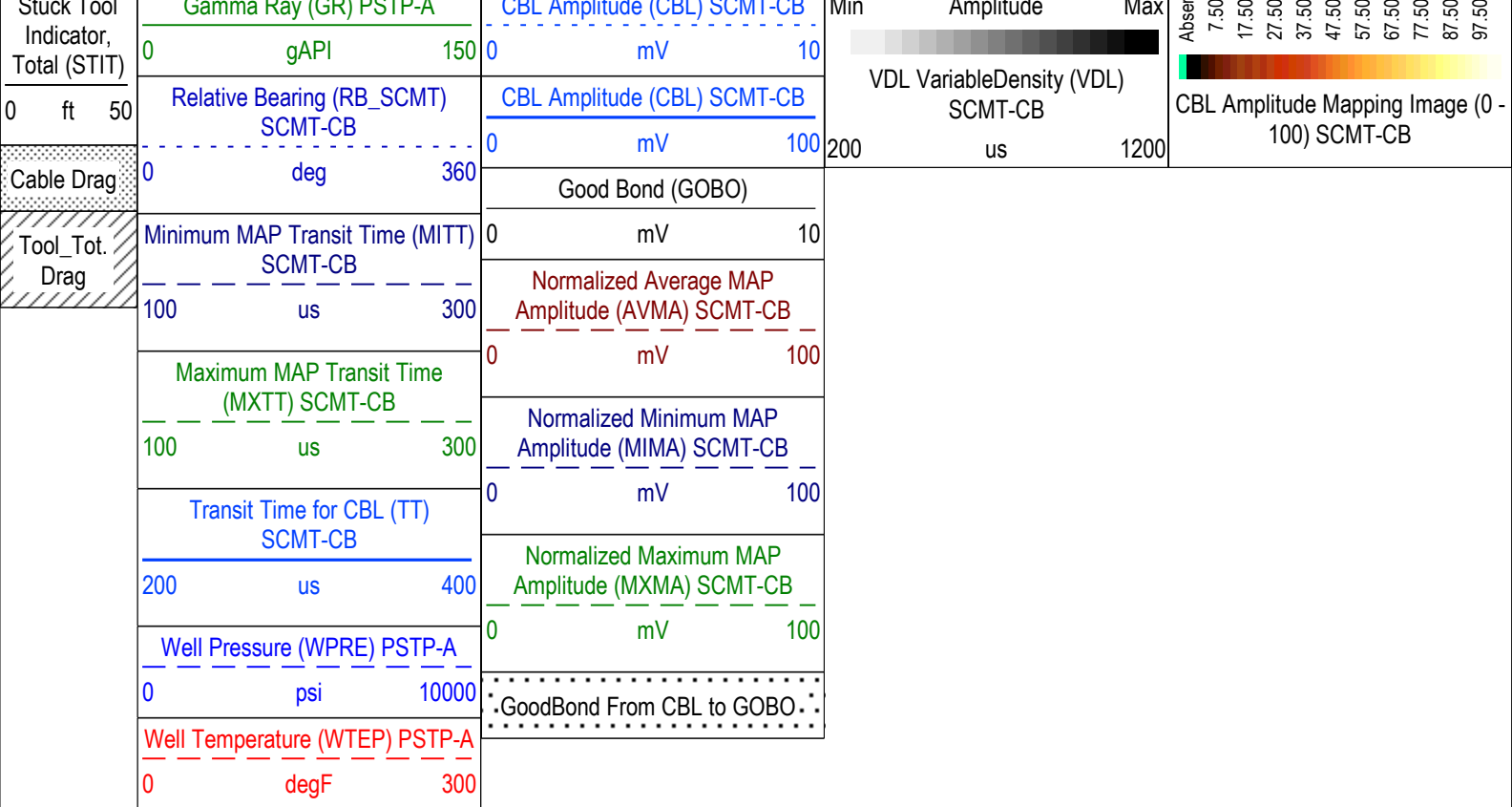












TIME_1900 - Time Marked every 60.00 (s)

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: 23-May-2019 13:06:42

Channel Processing Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	235.09	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	72	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.361	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-CB	178.45	us
MMSA	MAP Minimum Sonic Amplitude	SCMT-CB	10.85	mV
MSA	Minimum Sonic Amplitude	SCMT-CB	2.19	mV
RUN_SNUM	Run Sequence Number	WSDRUN	2	

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

Two

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	2053.59 ft	2482.40 ft	21-May-2019 6:33:37 PM	21-May-2019 6:47:27 PM	ON	4.86 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources and Operating LLC

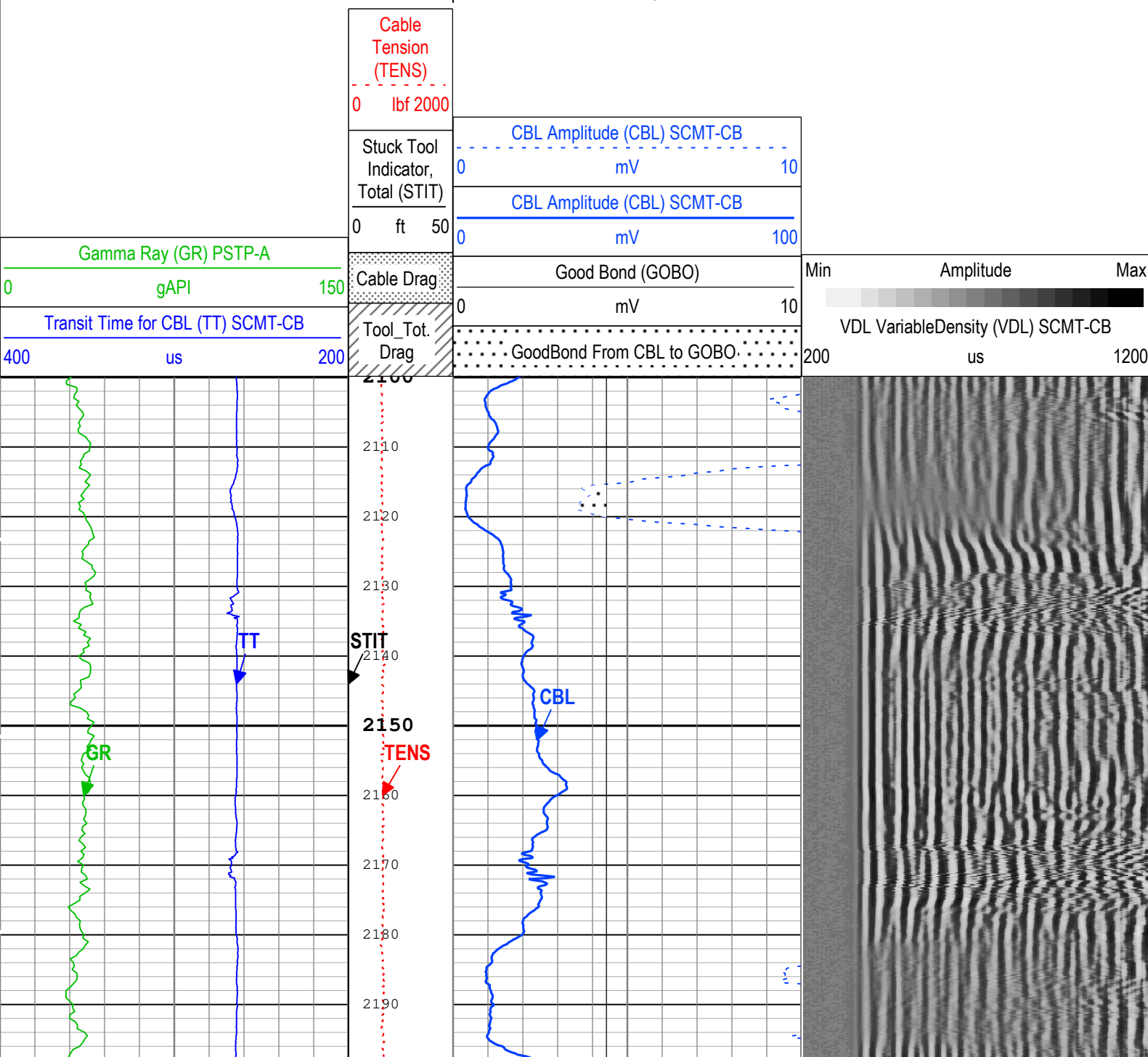
Well:Echeverria 2K-2H-D267

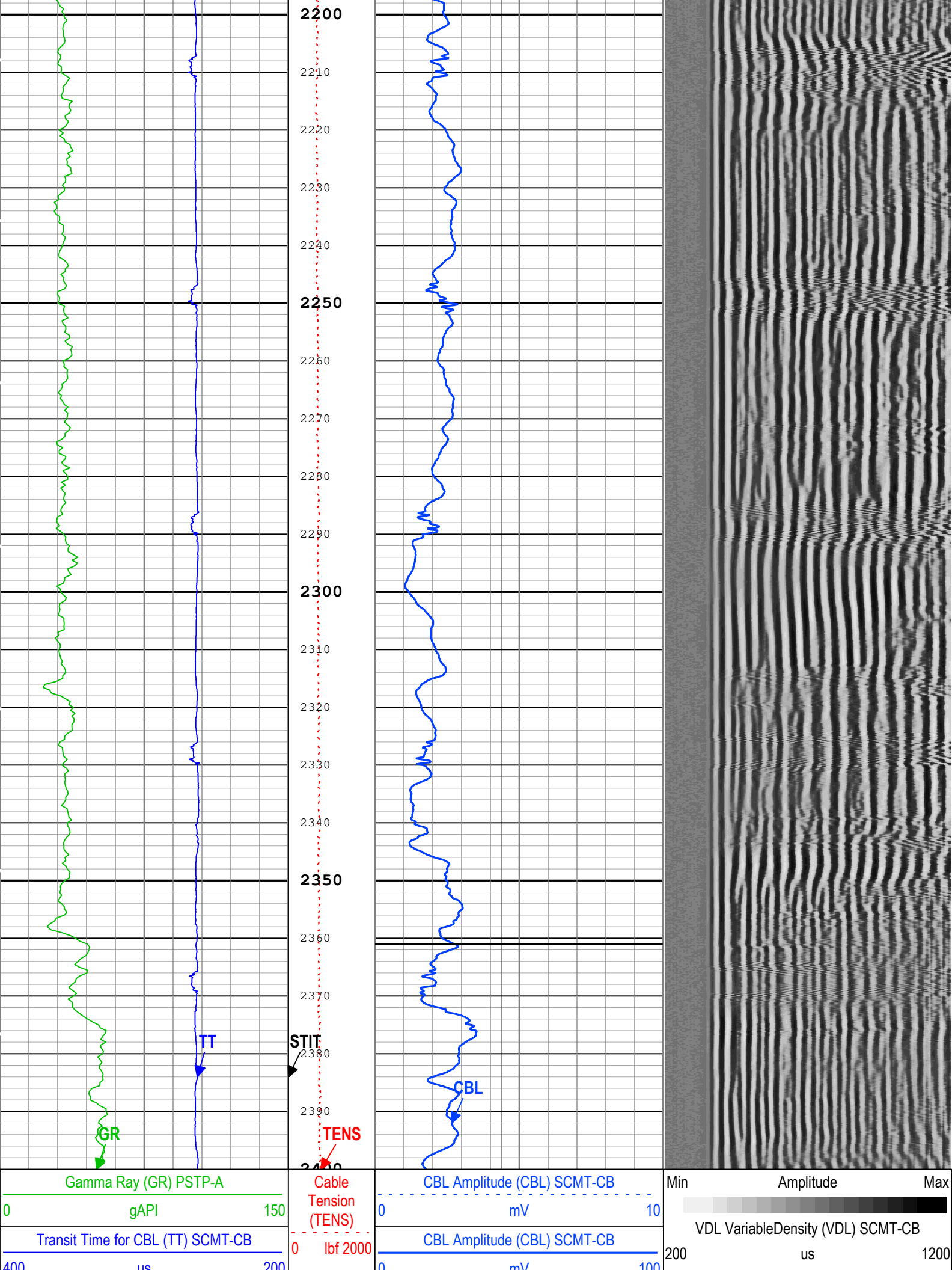
Two: Log[2]:Up:S003

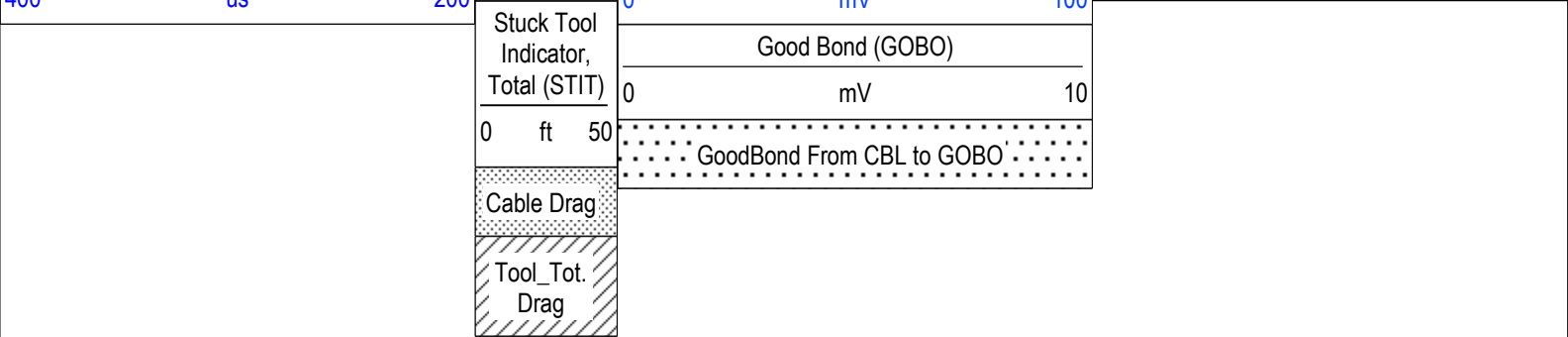
Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 23-May-2019 13:06:54

TIME_1900 - Time Marked every 60.00 (s)

■ 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: 23-May-2019 13:06:54

Channel Processing Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	235.09	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	72	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.361	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
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	11.85	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	2361
MCI	4.75	2361	2400
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

Repeat Pass

Software Version

Acquisition System	Version
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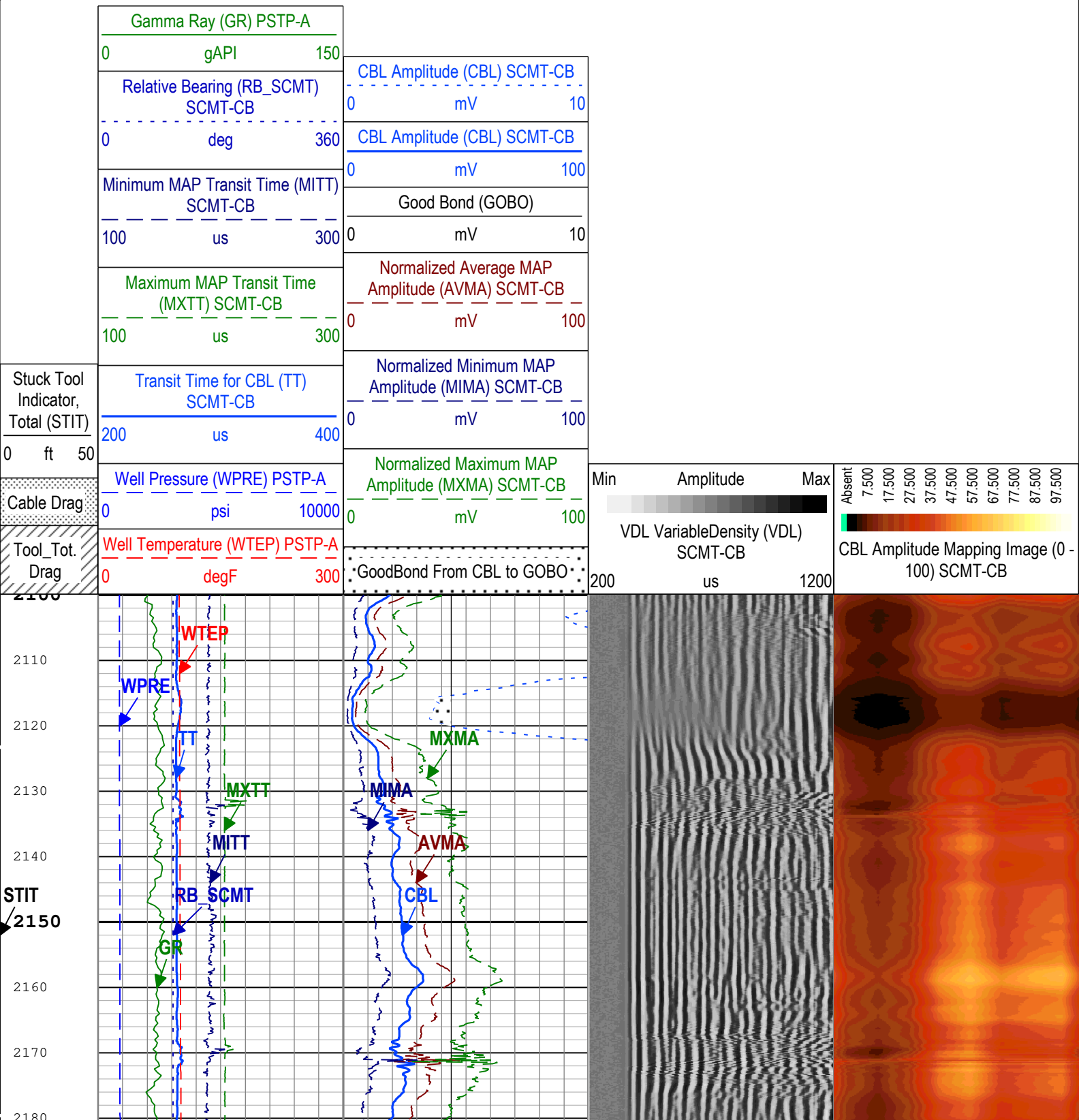
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Two	Log[2]:Up	Up	2053.59 ft	2482.40 ft	21-May-2019 6:33:37 PM	21-May-2019 6:47:27 PM	ON	4.86 ft	Yes

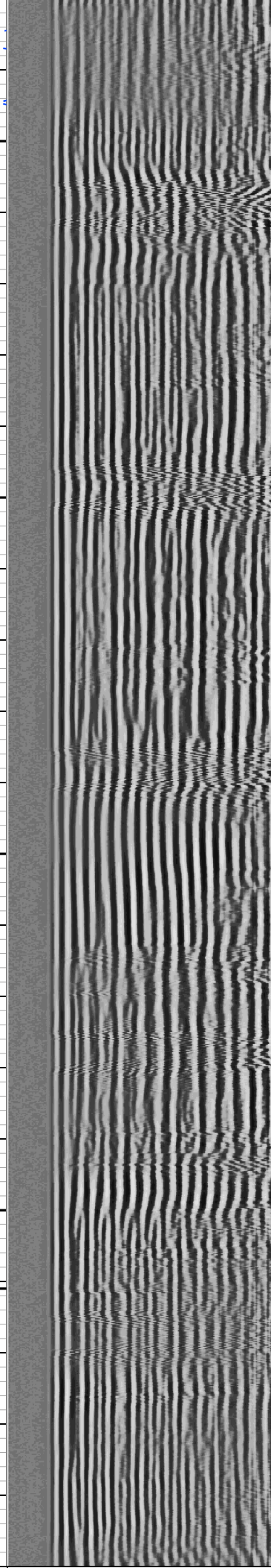
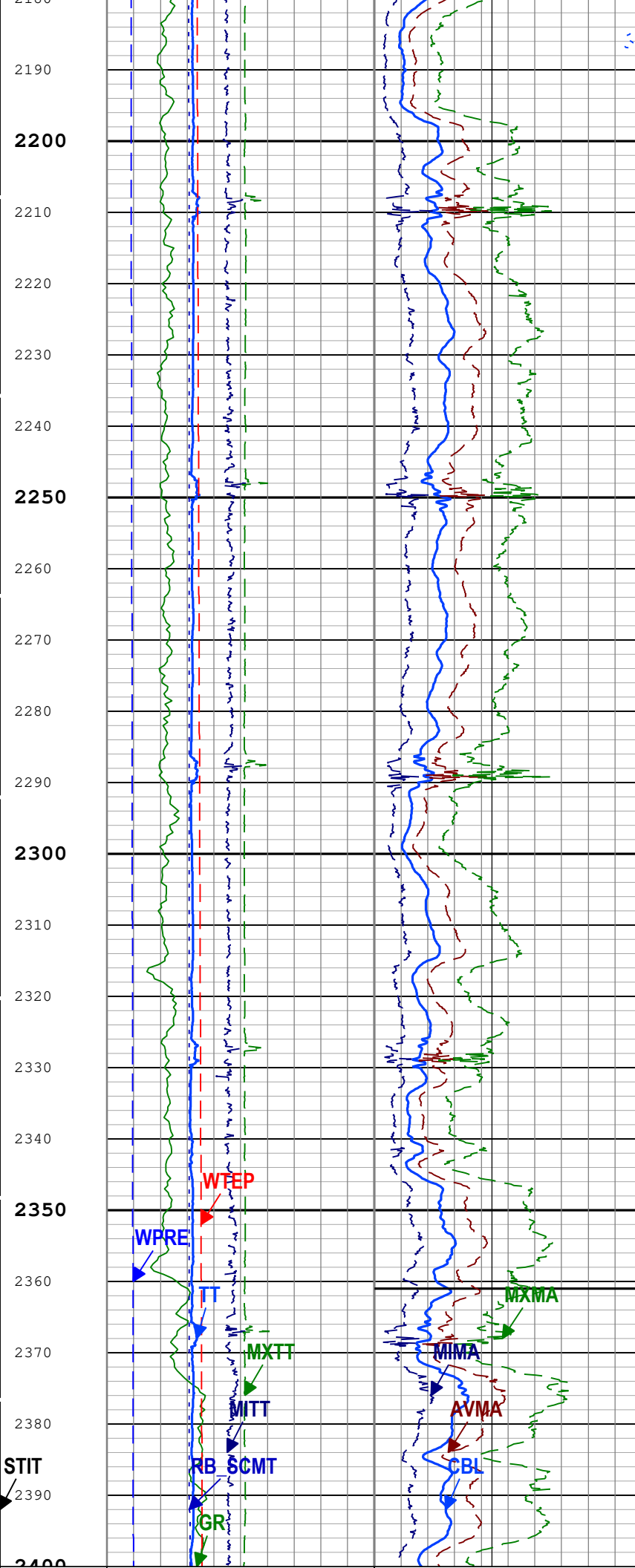
All depths are referenced to toolstring zero

Log	Company:Crestone Peak Resources and Operating LLC	Well:Echeverria 2K-2H-D267
	Two: Log[2]:Up:S003	

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: 23-May-2019 13:06:57

TIME_1900 - Time Marked every 60.00 (s)





Stuck Tool Indicator, Total (STIT)	Gamma Ray (GR) PSTP-A	CBL Amplitude (CBL) SCMT-CB	Min	Amplitude	Max	
0 ft 50	0 gAPI 150	0 mV 10				
	Relative Bearing (RB_SCMT) SCMT-CB	CBL Amplitude (CBL) SCMT-CB		VDL VariableDensity (VDL) SCMT-CB		CBL Amplitude Mapping Image (0 - 100) SCMT-CB
Cable Drag	0 deg 360	0 mV 100	200	us	1200	
Tool_Tot. Drag	Minimum MAP Transit Time (MITT) SCMT-CB	Good Bond (GOBO)				
	100 us 300	0 mV 10				
	Maximum MAP Transit Time (MXTT) SCMT-CB	Normalized Average MAP Amplitude (AVMA) SCMT-CB				
	100 us 300	0 mV 100				
	Transit Time for CBL (TT) SCMT-CB	Normalized Minimum MAP Amplitude (MIMA) SCMT-CB				
	200 us 400	0 mV 100				
	Well Pressure (WPRES) PSTP-A	Normalized Maximum MAP Amplitude (MXMA) SCMT-CB				
	0 psi 10000	0 mV 100				
	Well Temperature (WTEP) PSTP-A	GoodBond From CBL to GOBO				
	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: 23-May-2019 13:06:57

Channel Processing Parameters				
Two: Parameters				
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	235.09	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	72	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.361	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-CB	178.45	us
MMSA	MAP Minimum Sonic Amplitude	SCMT-CB	10.85	mV
MSA	Minimum Sonic Amplitude	SCMT-CB	2.19	mV
RUN_SNUM	Run Sequence Number	WSDRUN	2	
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	
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					
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	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	1218.098	1650.000	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	1093.785	1650.000	
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	807.772	1650.000	
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	882.819	1650.000	
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	964.949	1650.000	
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	1086.432	1650.000	
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	1188.836	1650.000	
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 0 degree)	mV	Master	1075.000	500.000	1282.034	1650.000	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1350.000	1000.000	1178.190	1700.000	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	1054.282	1650.000	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	965.417	1650.000	
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	760.428	1650.000	
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	942.255	1650.000	
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	1117.953	1650.000	
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	1289.531	1650.000	
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	1273.549	1650.000	
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 90 degree)	mV	Master	1075.000	500.000	1172.603	1650.000	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1350.000	1000.000	1177.369	1700.000	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	995.650	1650.000	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	998.660	1650.000	
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	861.659	1650.000	
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	1085.633	1650.000	
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	1238.145	1650.000	
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	1300.507	1650.000	
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	1172.184	1650.000	
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 180 degree)	mV	Master	1075.000	500.000	1036.327	1650.000	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1350.000	1000.000	1174.563	1700.000	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1078.665	1650.000	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1119.866	1650.000	
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	955.836	1650.000	
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1120.067	1650.000	
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 270 degree)	mV	Master	1075.000	500.000	1171.587	1650.000	

Raw Amplitude (at 270 degree)							
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		
Master (EEPROM): 00:00:00 07-Mar-2003		
PBMS_GR_MODEL (Master) GR Coefficients		
	Rt**0	Rt**1
Rt**0	2000	4740

PBMS LQC Reference Amplitude in Free Pipe Master Calibration		
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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 2K-2H-D267	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
Slim Cement Mapping Tool		
Cement Evaluation		
Gamma Ray - CCL Log		