

Company: Caerus Piceance LLC

Well: Puckett 41B-2

Field: Wildcat

County: Garfield Country: US

Slim Cement Mapping Tool

CBL-VDL

County:	Garfield		
Field:	Wildcat		
Location:	SHL: S2, T7S, R97W		
Well:	Puckett 41B-2		
Company:	Caerus Piceance LLC		
Location:	SHL: S2, T7S, R97W	Elev.: K.B. 8509.00 ft	
	526' FNL & 1136' FEL	G.L. 8479.00 ft	
	LAT: 39.475831 / LONG: -108.180911	D.F. 8509.00 ft	
	Permanent Datum:	Ground Level	Elev.: 8479.00 f
Log Measured From:		Kelly Bushing	30.00 ft
Drilling Measured From:		Kelly Bushing	above Perm.Datum
API Serial No.	05-045-22630	Max.Hole Deviation	0 deg
		Longitude:	-108.18031 degrees
		Latitude:	39.475831 degrees

Logging Date	22-Jul-2015		
Run Number	ONE		
Depth Driller	9135.00 ft		
Schlumberger Depth	9078.00 ft		
Bottom Log Interval	9078.00 ft		
Top Log Interval	2500.00 ft		
Casing Fluid Type	3% KCl		
Salinity			
Density	9 lbm/gal		
Fluid Level	0.00 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.75 in		
From	2515.00 ft		
To	9135.00 ft		
Casing/Tubing Size	4.5 in		
Weight	11.6 lbm/ft		
Grade	P110		
From	0.00 ft		
To	9129.00 ft		
Max Recorded Temperatures	239 degF		
Logger on Bottom	22-Jul-2015	13:48:00	
Unit Number	9108	Fort Morgan, CO	
Recorded By	Benjamin Mammon		
Witnessed By	Natalie Naeve		

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

Contents

1. Header

2. Disclaimer

3. Contents

4. Well Sketch

5. Borehole Size/Casing/Tubing Record

6. Operational Run Summary

7. Remarks and Equipment Summary

8. Depth Summary

9. Composite1

9.1 Integration Summary

9.2 Software Version

9.3 Composite Summary

9.4 Log ( SCMT\_Amp\_Image\_1 )

9.5 Parameter Listing

10. ONE

10.1 Integration Summary

10.2 Software Version
- 11.4 Log ( SCMT\_VDL\_Image\_1 )

11.5 Parameter Listing

12. ONE

12.1 Integration Summary

12.2 Software Version

12.3 Composite Summary

12.4 Log ( SCMT\_VDL\_Image )

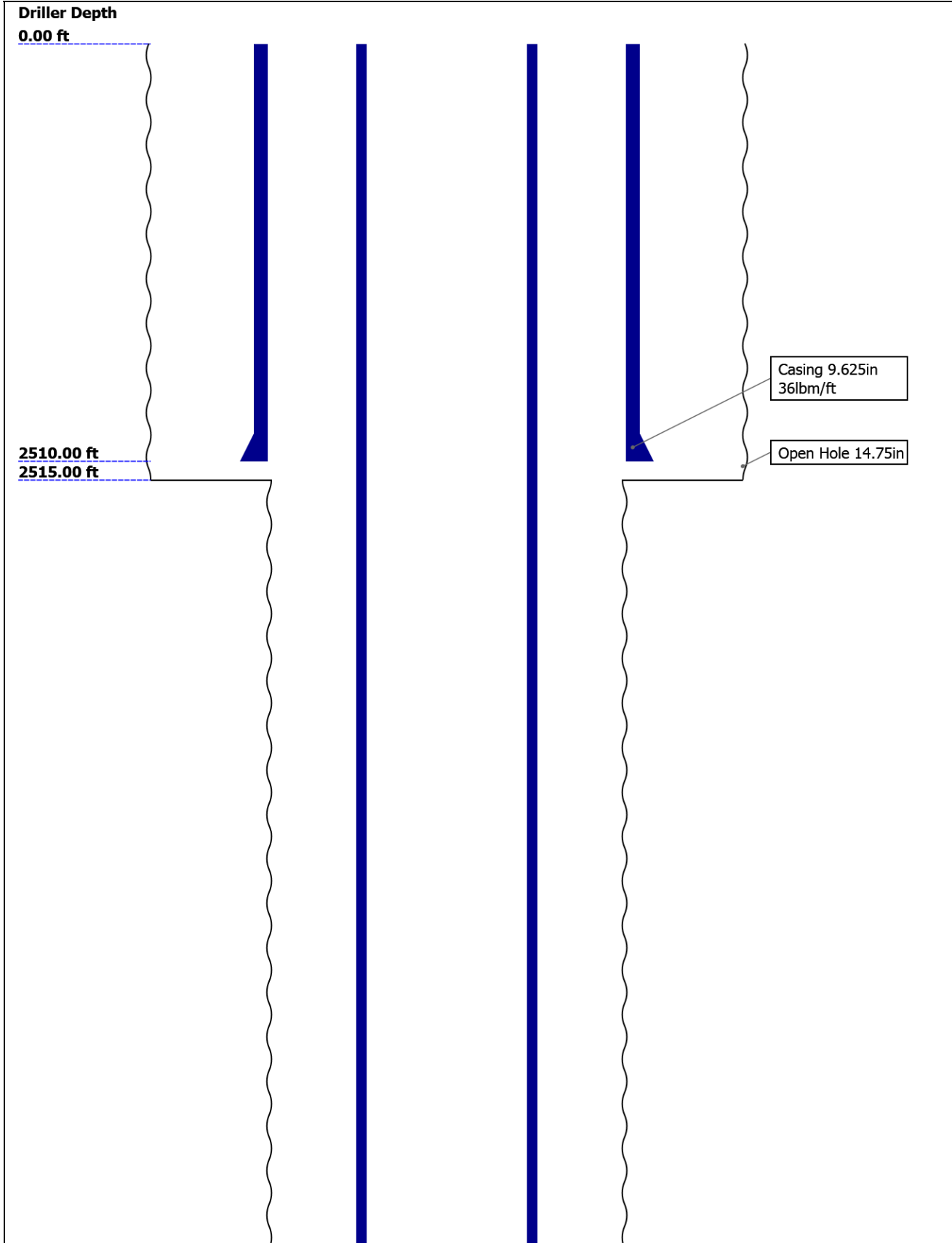
12.5 Parameter Listing

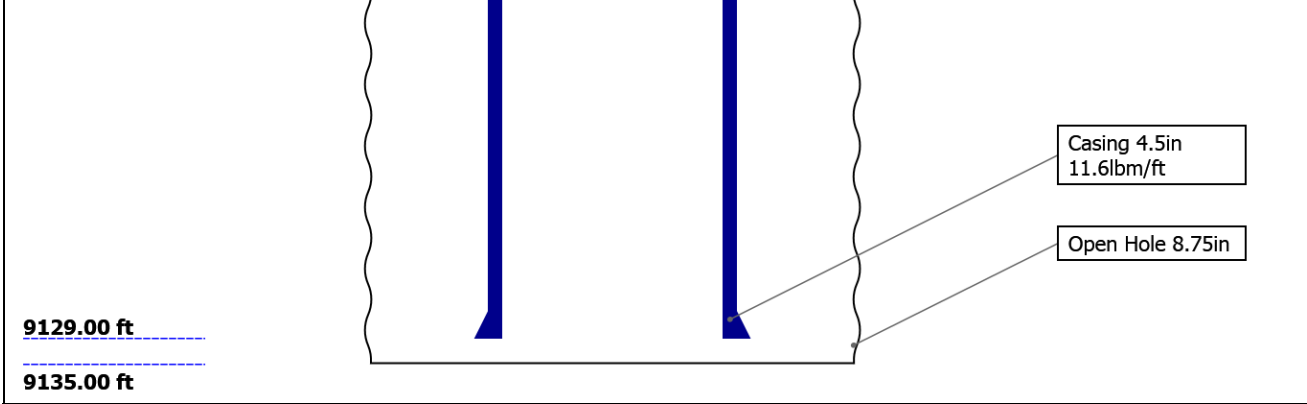
13. Calibration Report

14. Tail

- 10.3 Composite Summary
- 10.4 Log ( SCMT\_Amp\_Image\_1 )
- 10.5 Parameter Listing
- 11. Composite1
  - 11.1 Integration Summary
  - 11.2 Software Version
  - 11.3 Composite Summary

Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size ( in )	14.75	8.75				
Top Driller ( ft )	0	2515				
Top Logger ( ft )	0	2515				
Bottom Driller ( ft )	2515	9135				
Bottom Logger ( ft )	2515	9135				
Casing						
Size ( in )	9.625	4.5				
Weight ( lbm/ft )	36	11.6				
Inner Diameter ( in )	8.921	4				
Grade	J55	P110				
Top Driller ( ft )	0	0				
Top Logger ( ft )	0	0				
Bottom Driller ( ft )	2510	9129				
Bottom Logger ( ft )	2510	9129				

Operational Run Summary

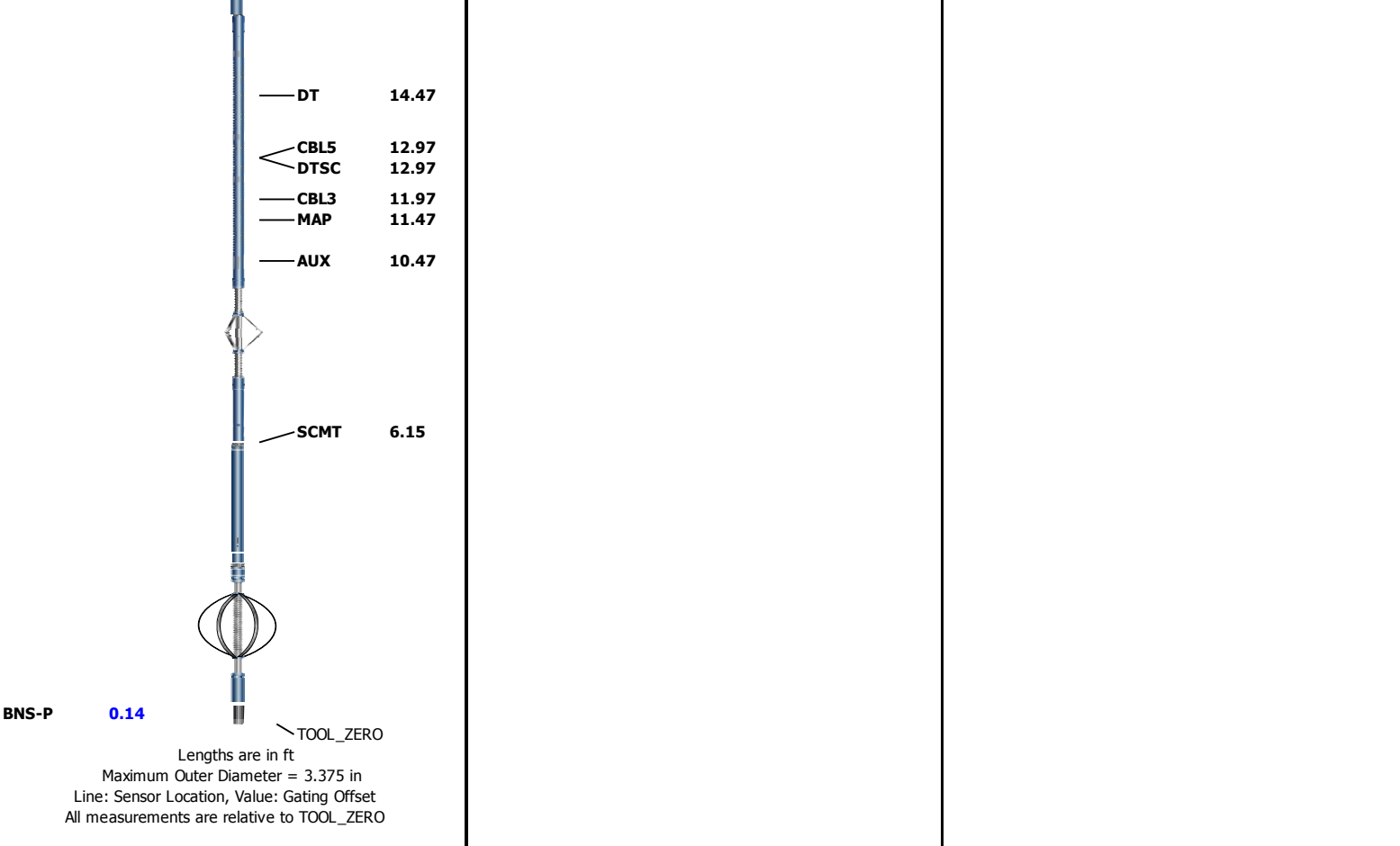
Parameter ( unit )	ONE					
Date Log Started	22-Jul-2015					
Time Log Started	11:59:17					
Date Log Finished	22-Jul-2015					
Time Log Finished	18:35:31					
Top Log Interval ( ft )	2500.00					
Bottom Log Interval ( ft )	9078.00					
Total Depth ( ft )						
Max Hole Deviation ( deg )	0.00					
Azimuth of Max Deviation ( deg )	0.00					
Bit Size ( in )	8.750					
Logging Unit Number	9108					
Logging Unit Location	Fort Morgan, CO					
Recorded By	Benjamin Marmon					

Witnessed By	Natalie Naeve					
Service Order Number	D5ND-00069					

## Remarks and Equipment Summary

[illegible]





## Depth Summary

	ONE		
--	-----	--	--

## Depth Measuring Device

Type	IDW-B		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	0		
Wheel Correction 2	0		

## Tension Device

Type	CMTD-B/A		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Number of Calibration Points	0		

## Logging Cable

Type	7-46A-XS		
Serial Number			
Length	21000.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane		

## ONE:Depth Control Parameters

Log Sequence	First Log In the Well	Depth Control Remarks
		All Schlumberger depth control procedures followed during logging operations.

Rig Up Length At Surface	IDW used as primart depth control device.
Rig Up Length At Bottom	Z-Chart used as secondary depth control.
Rig Up Length Correction	
Stretch Correction	
Tool Zero Check At Surface	

## Composite 1

## Software Version

Acquisition System	Version
Maxwell 2016	6.0.47569.3100

## Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[5]:Up	Up	3030.78 ft	9098.50 ft	22-Jul-2015 2:21:43 PM	22-Jul-2015 5:49:19 PM	ON	9.90 ft	Yes
ONE	Log[6]:Up	Up	2419.30 ft	3311.69 ft	22-Jul-2015 5:56:38 PM	22-Jul-2015 6:27:27 PM	ON	10.32 ft	Yes

All depths are referenced to toolstring zero

## Log

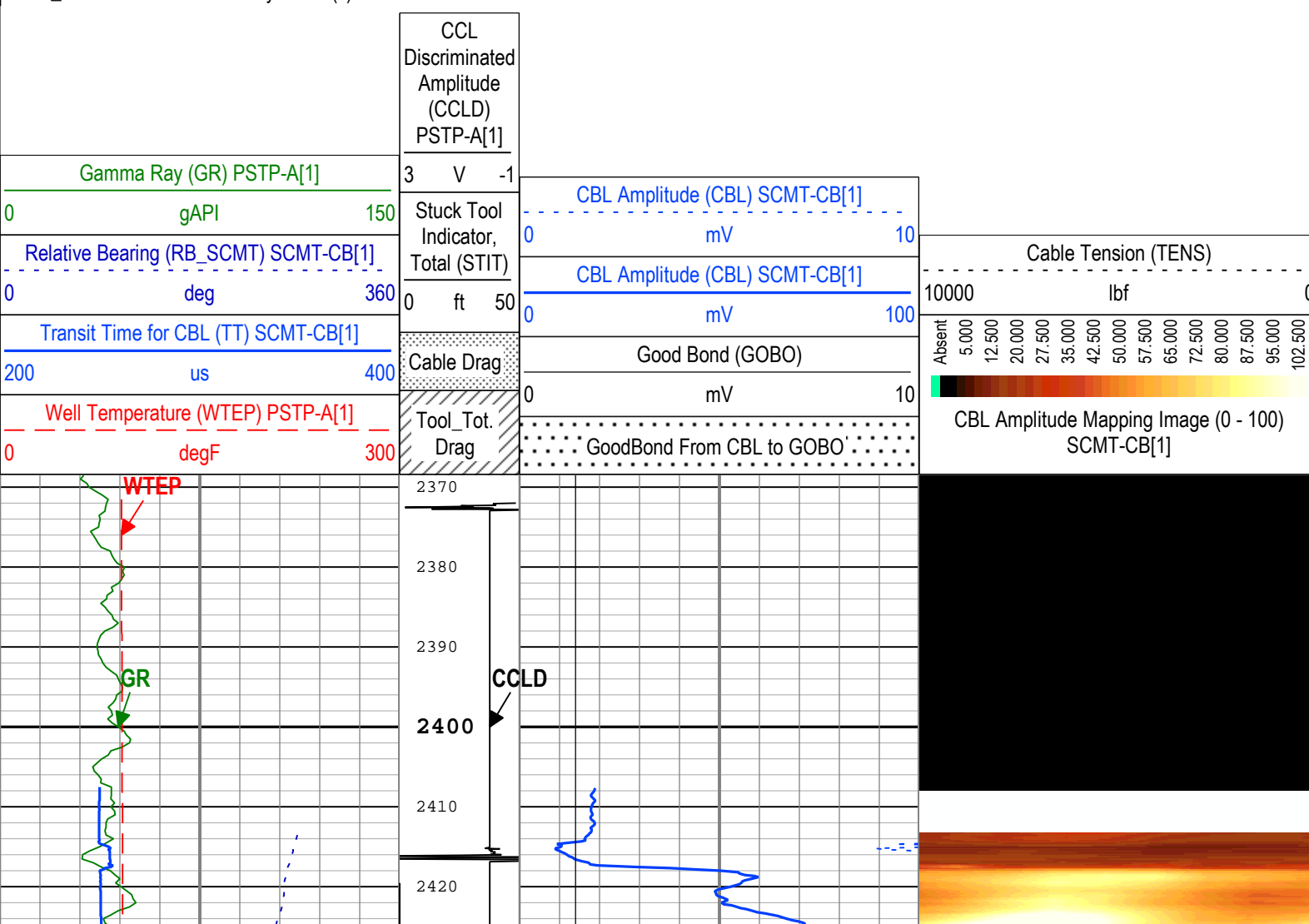
Company:Caerus Piceance LLC

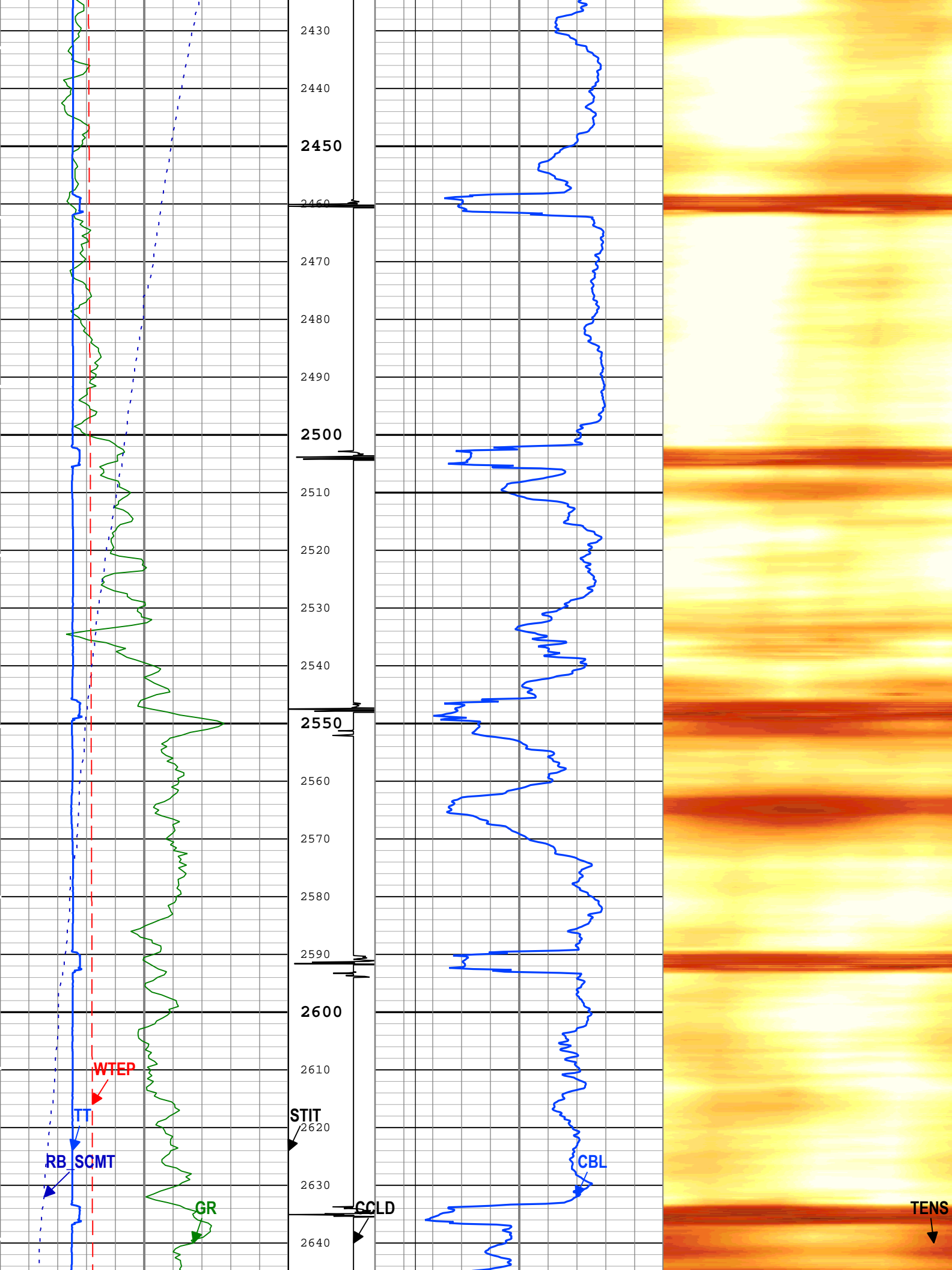
Well:Puckett 41B-2

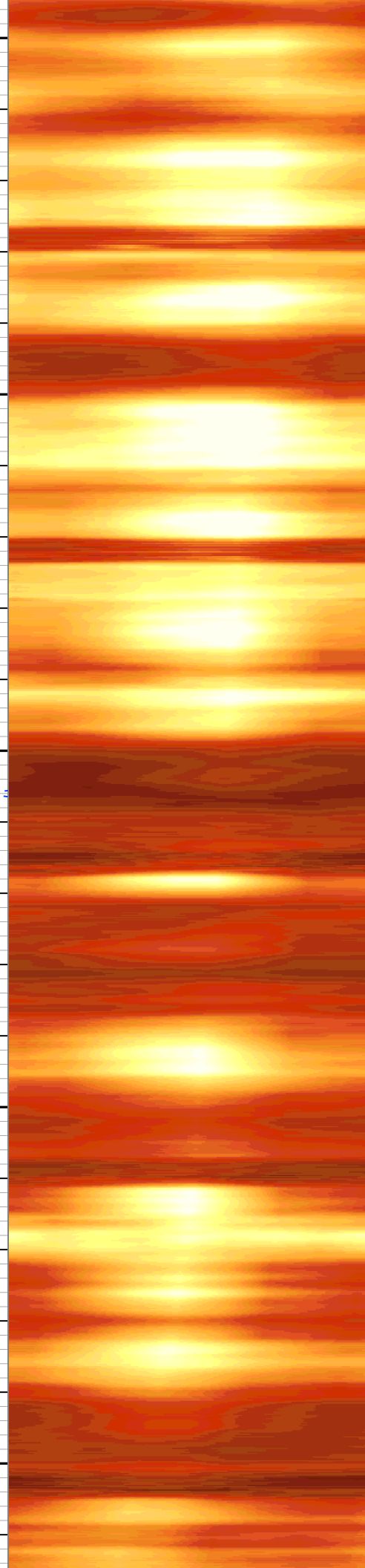
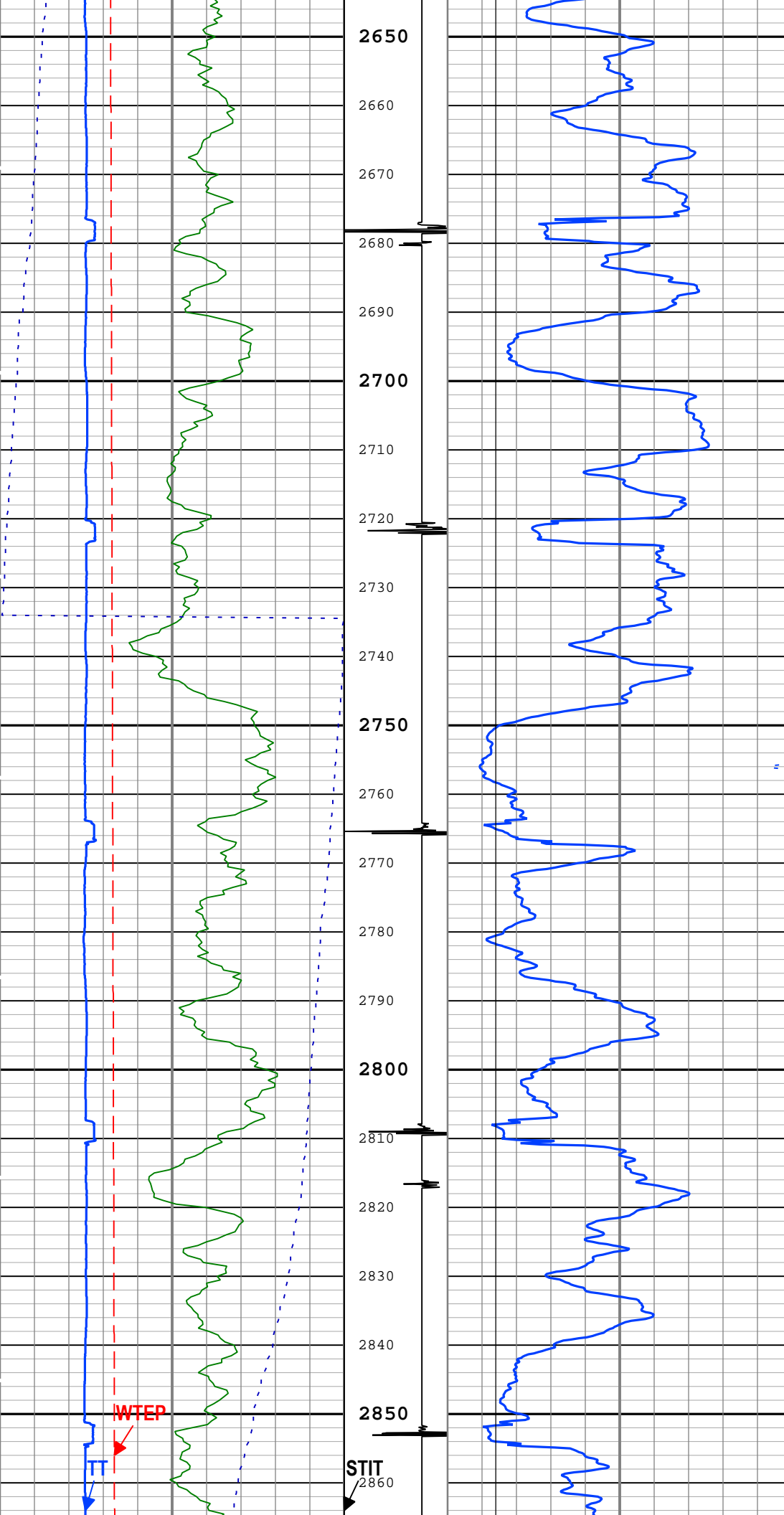
Composite 1:S012

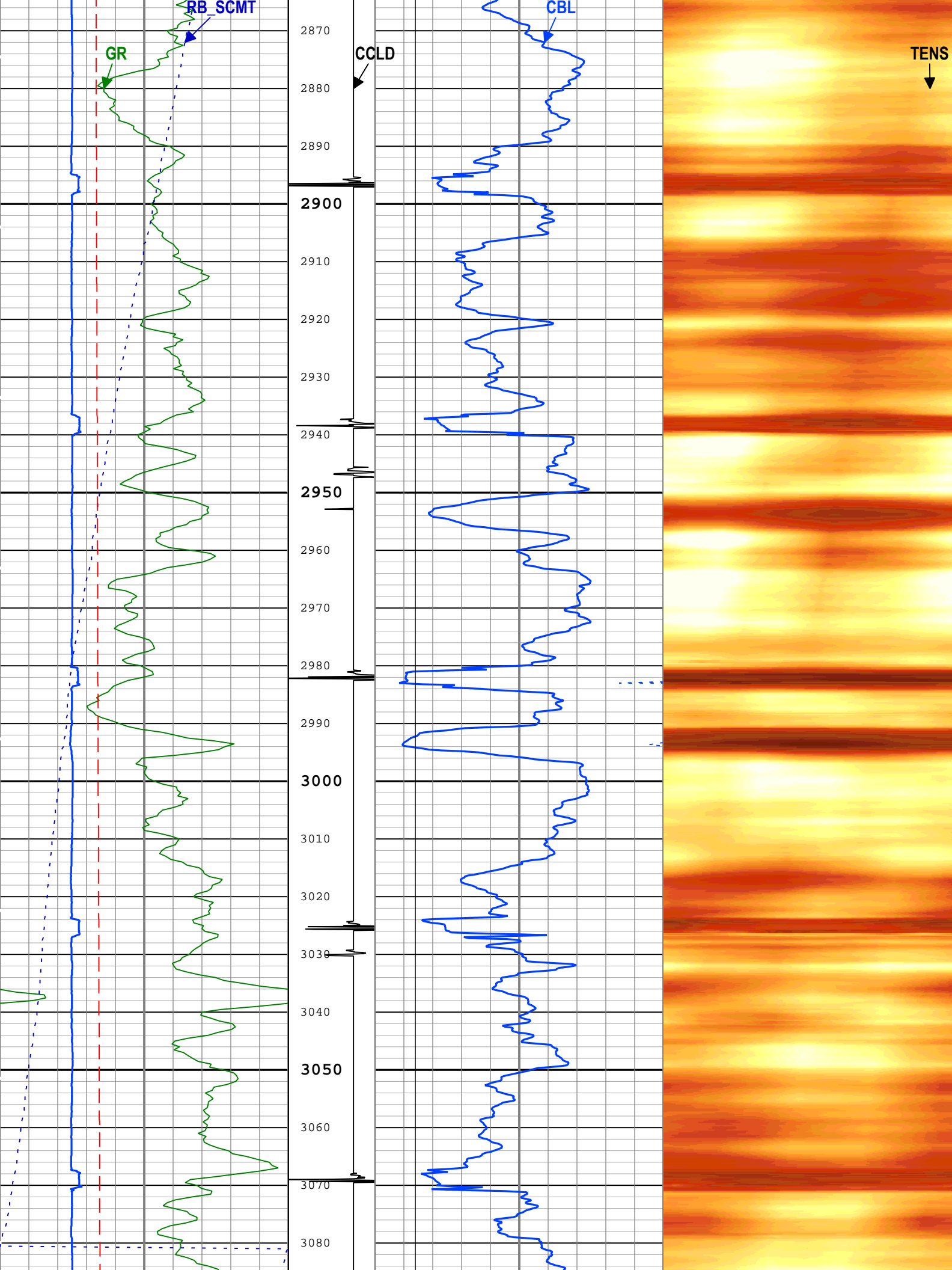
Description: SCMT Amplitudes and MAP Image		Format: Log ( SCMT_Amp_Image_1 )	Index Scale: 5 in per 100 ft	Index Unit: ft	Index Type: Measured
Depth	Creation Date: 06-Aug-2015 08:25:14				

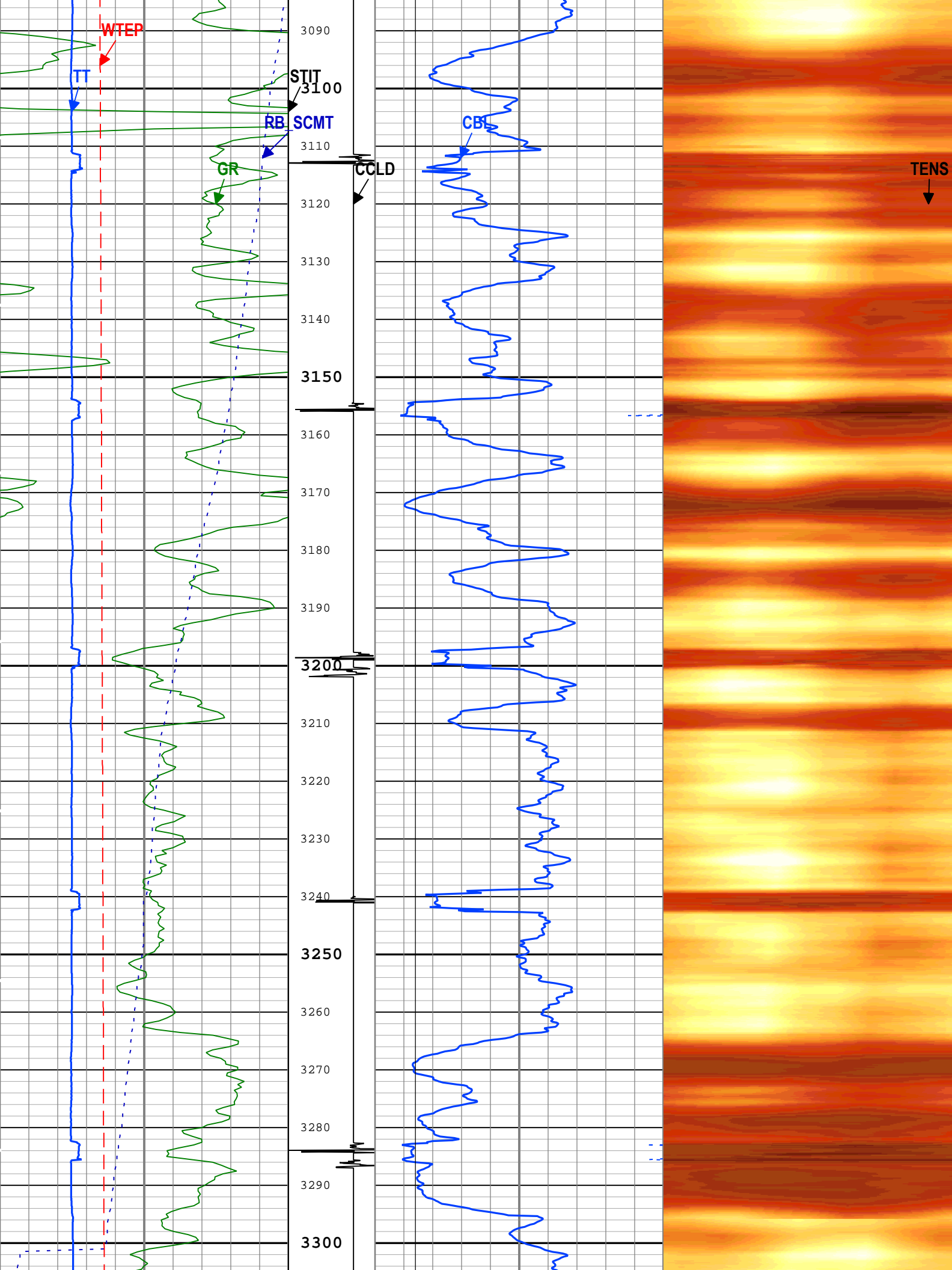
TIME\_1900 - Time Marked every 60.00 (s)

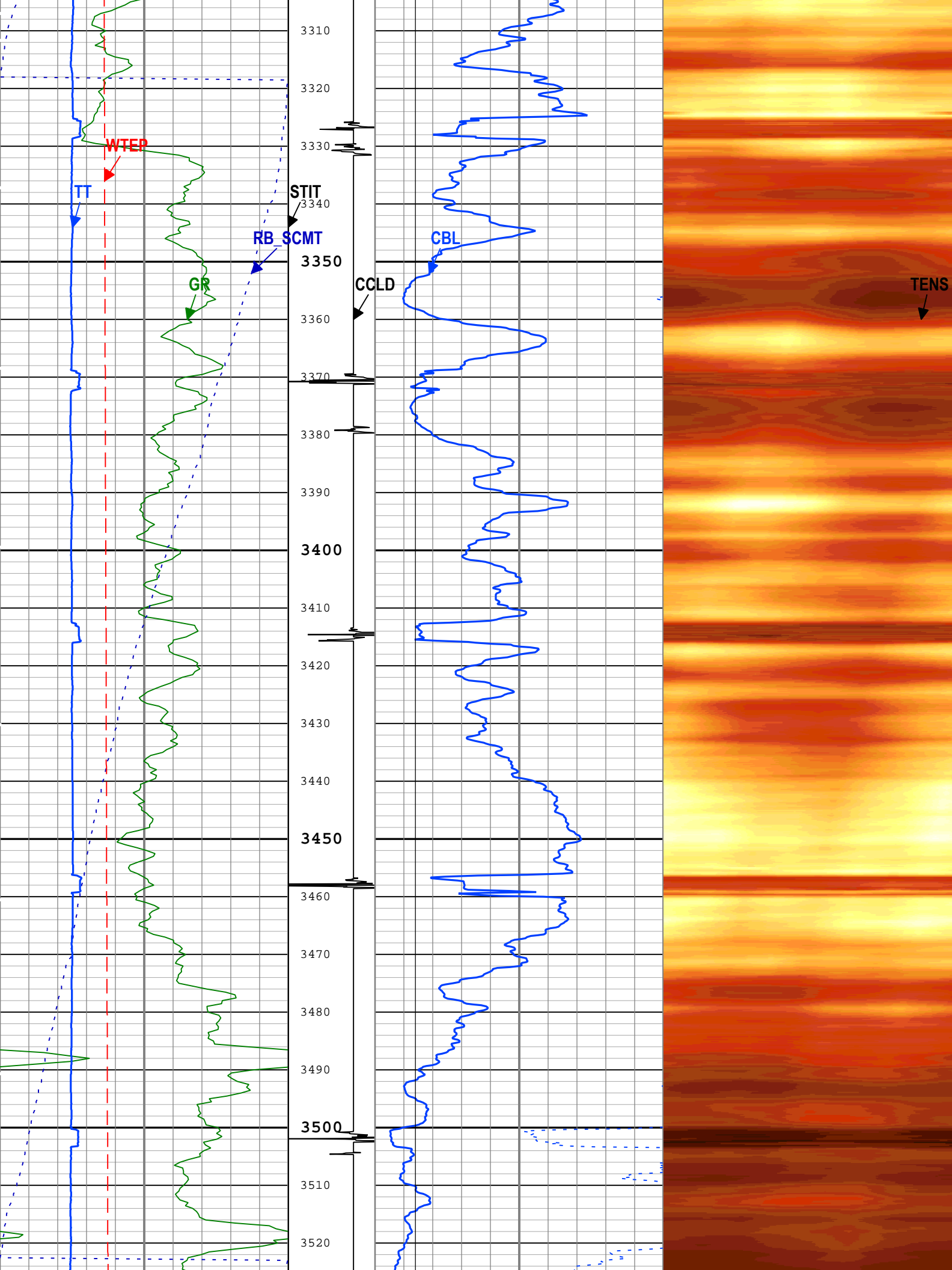


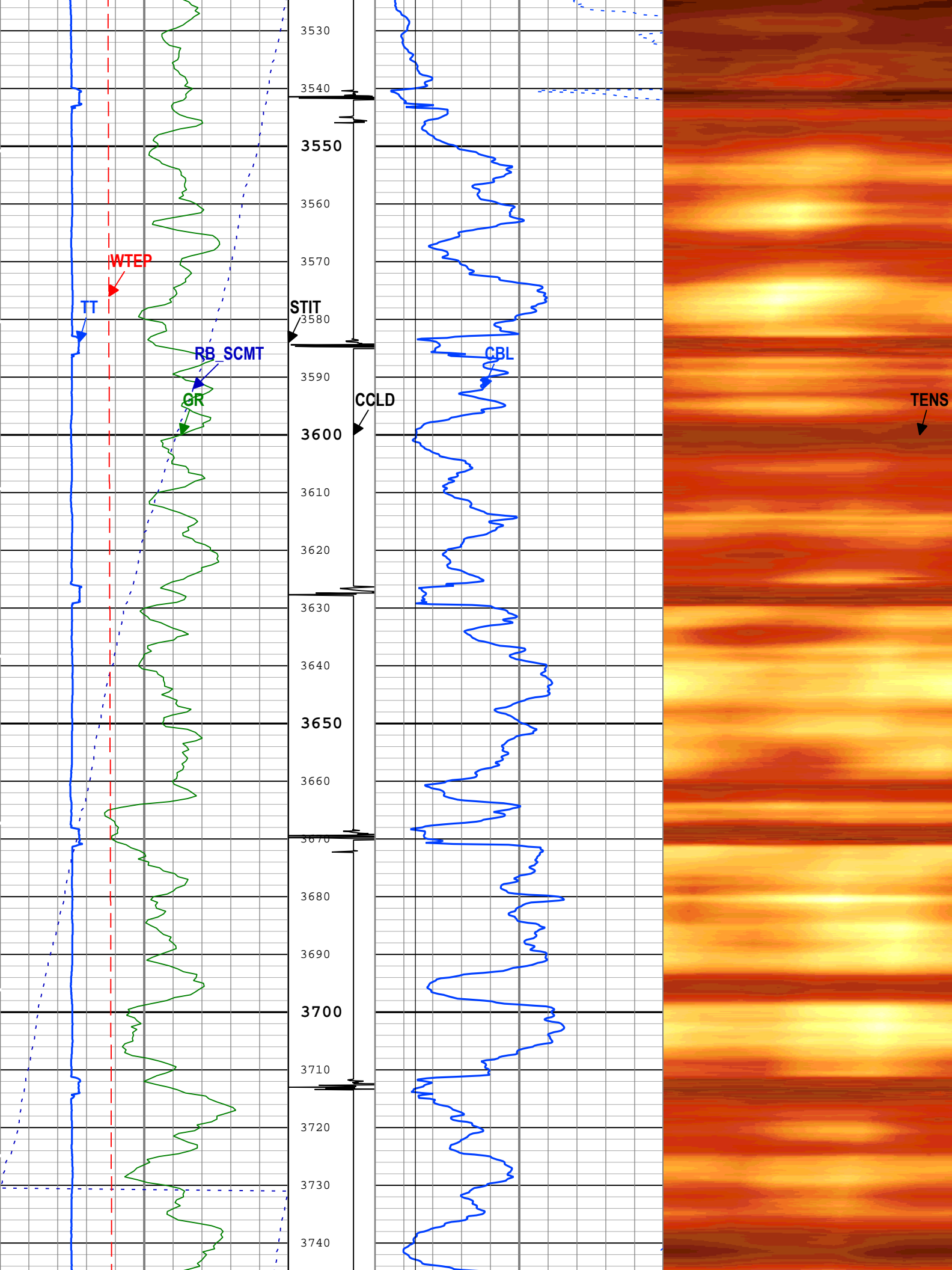




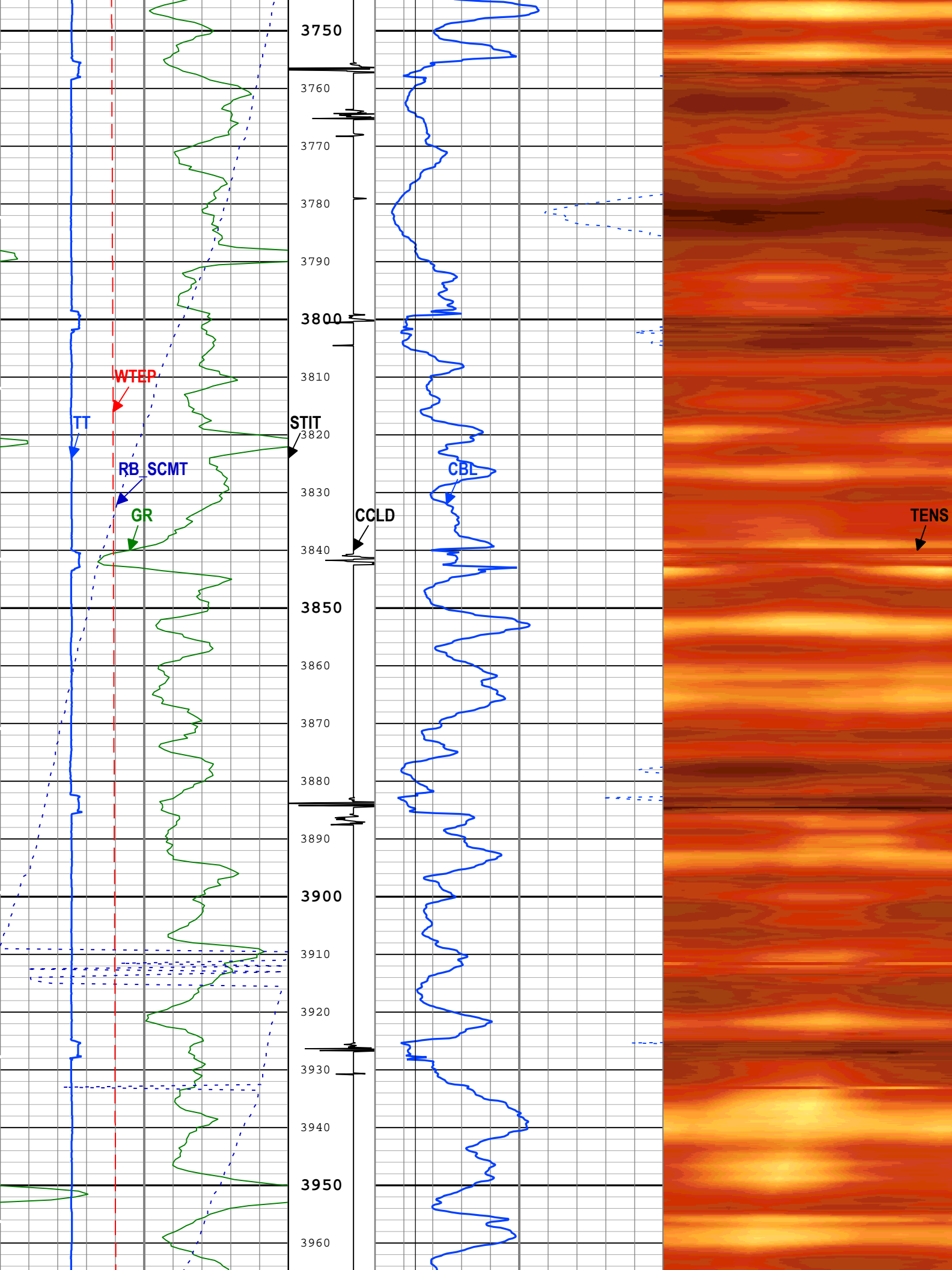


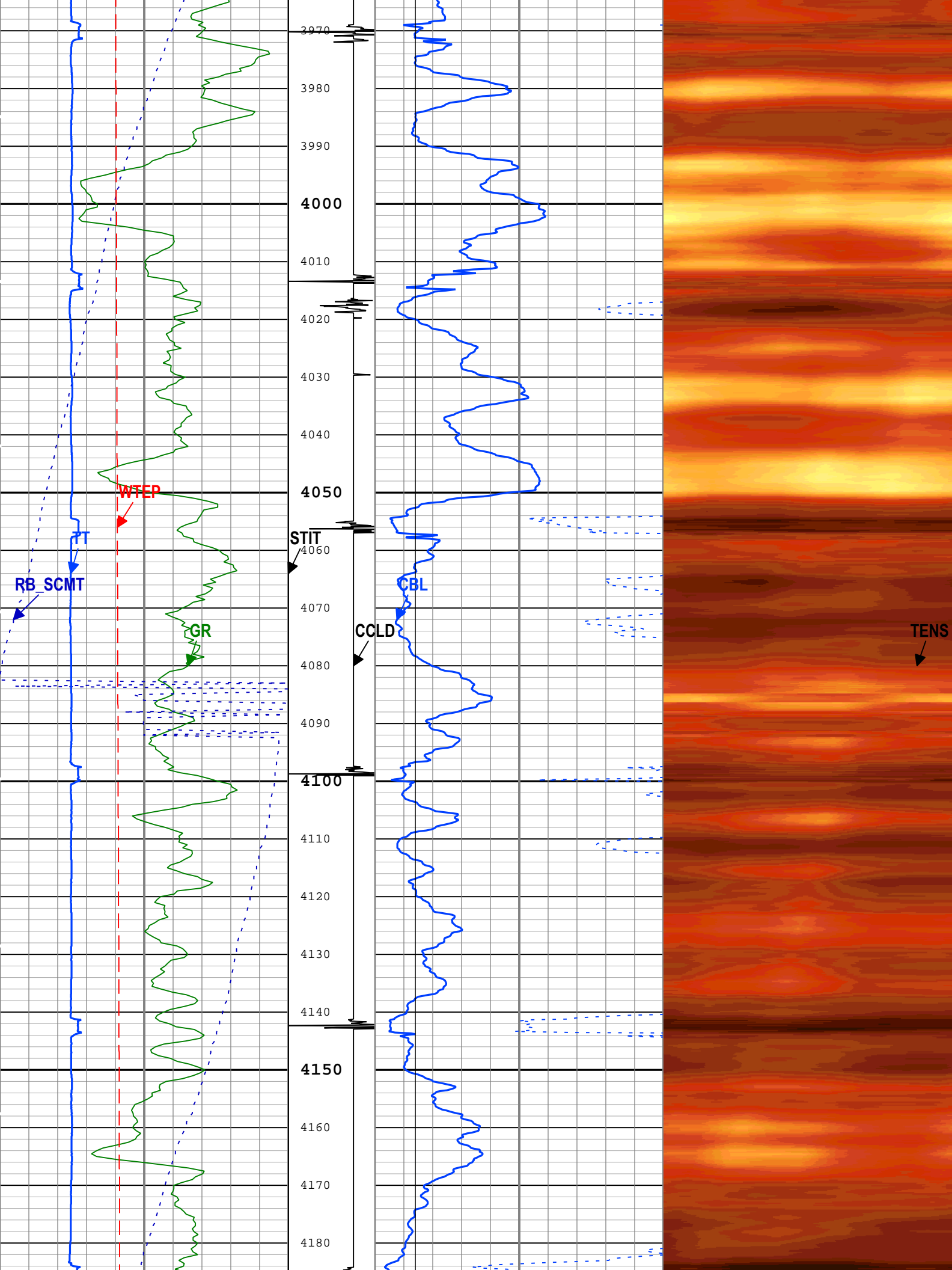


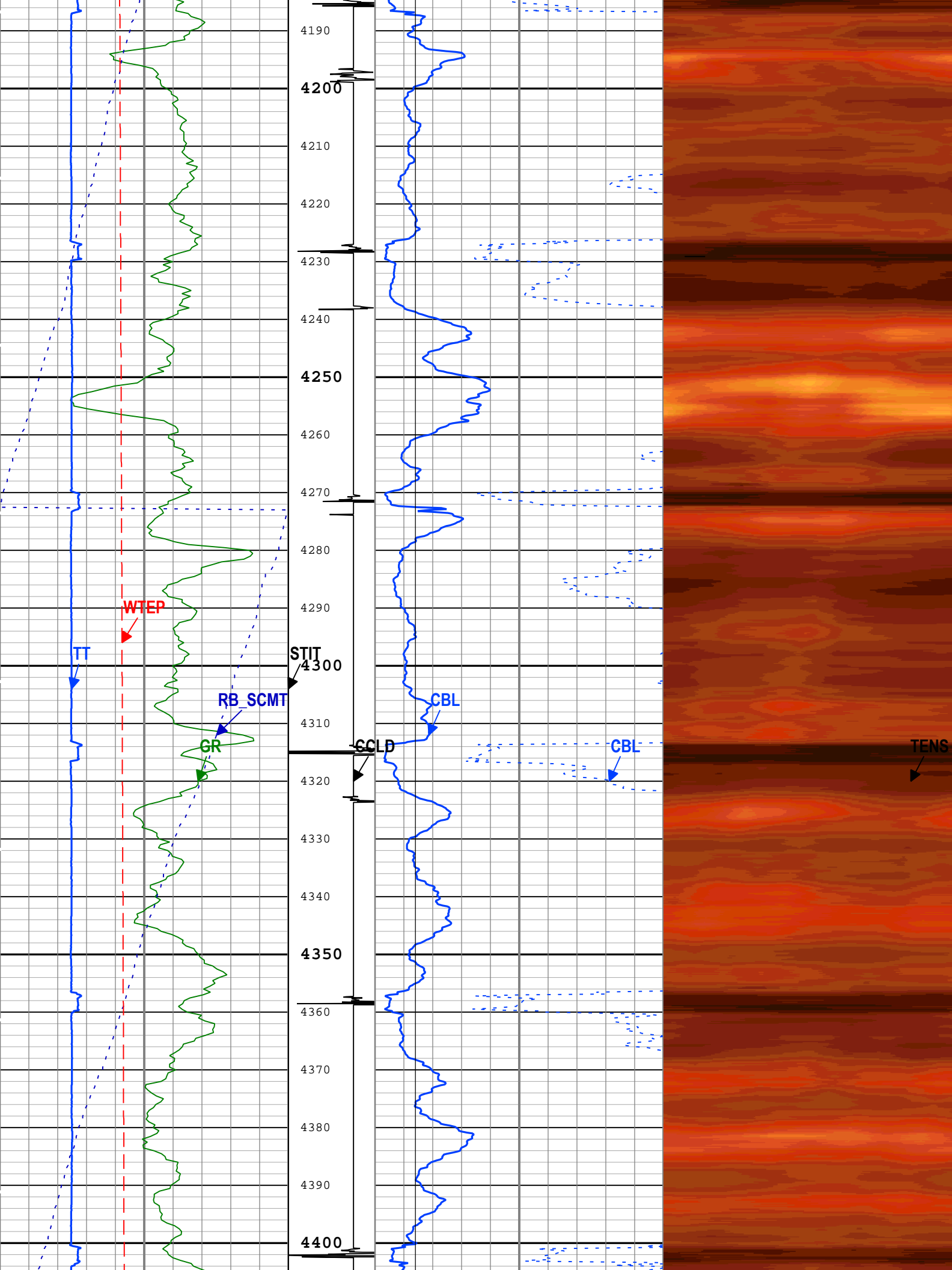


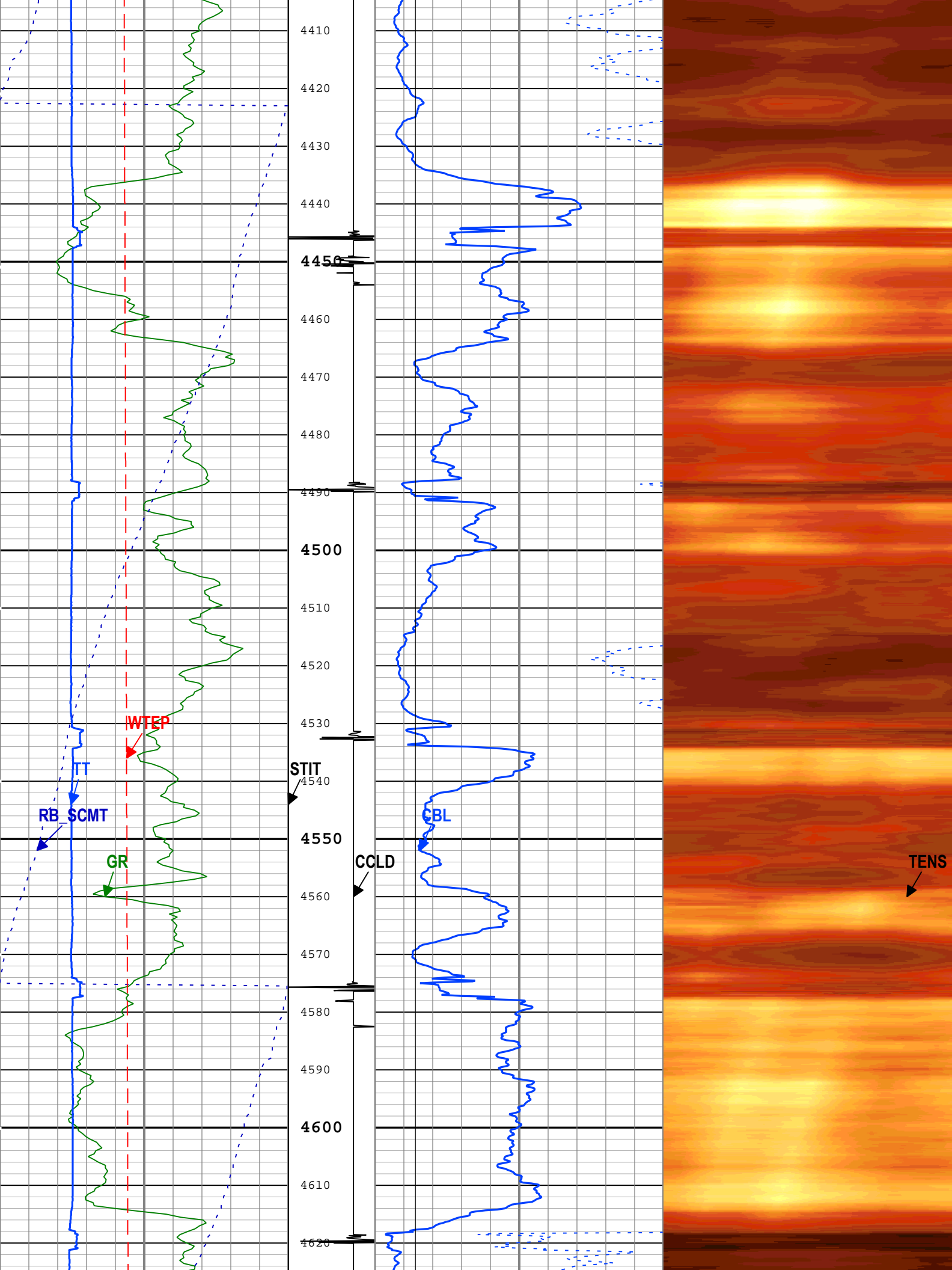


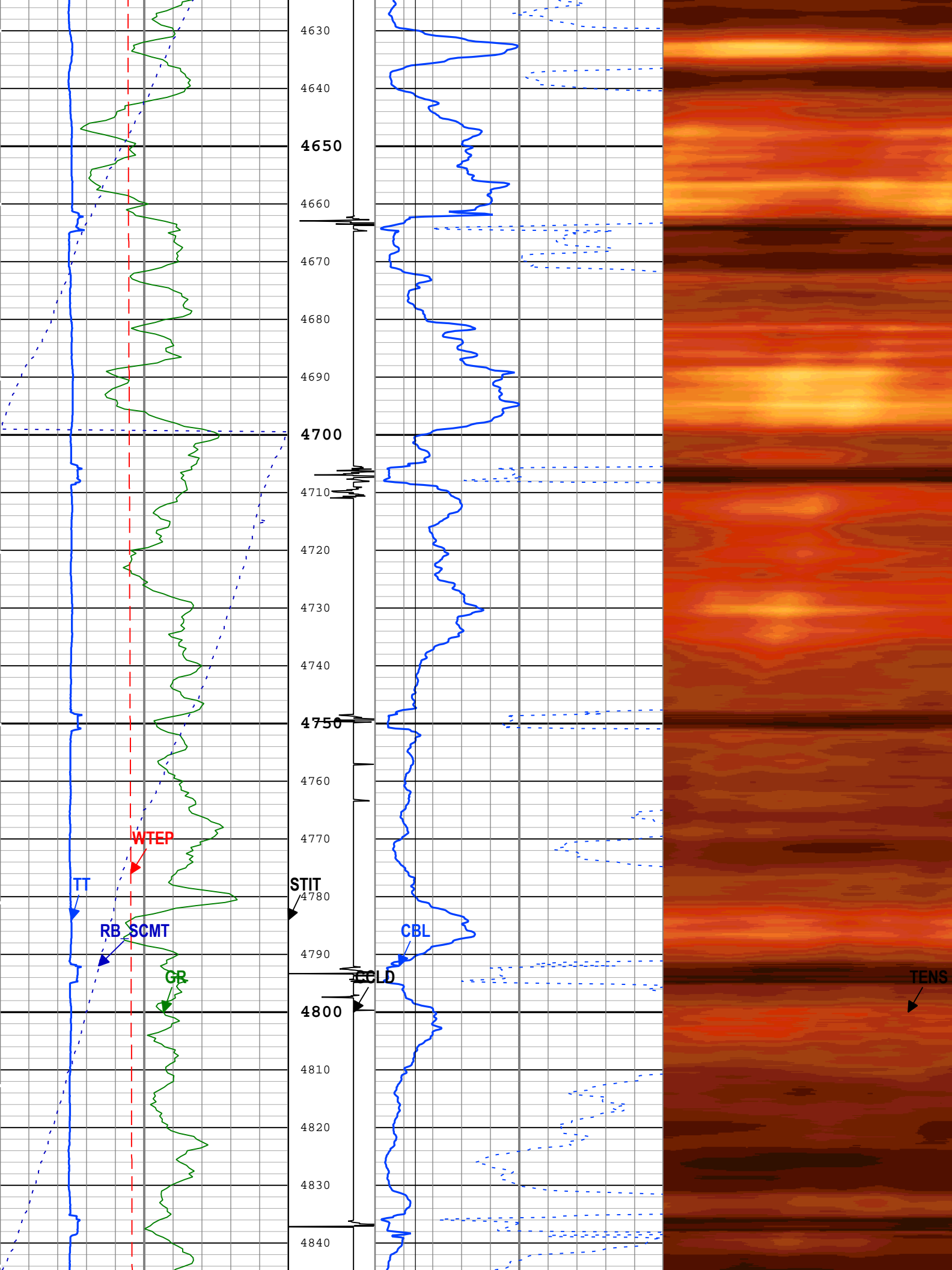


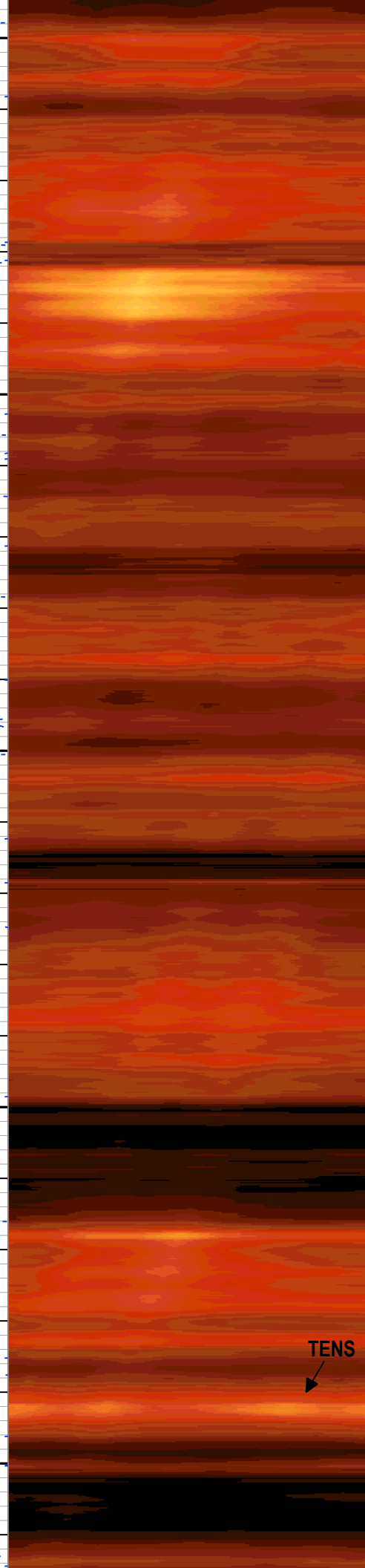
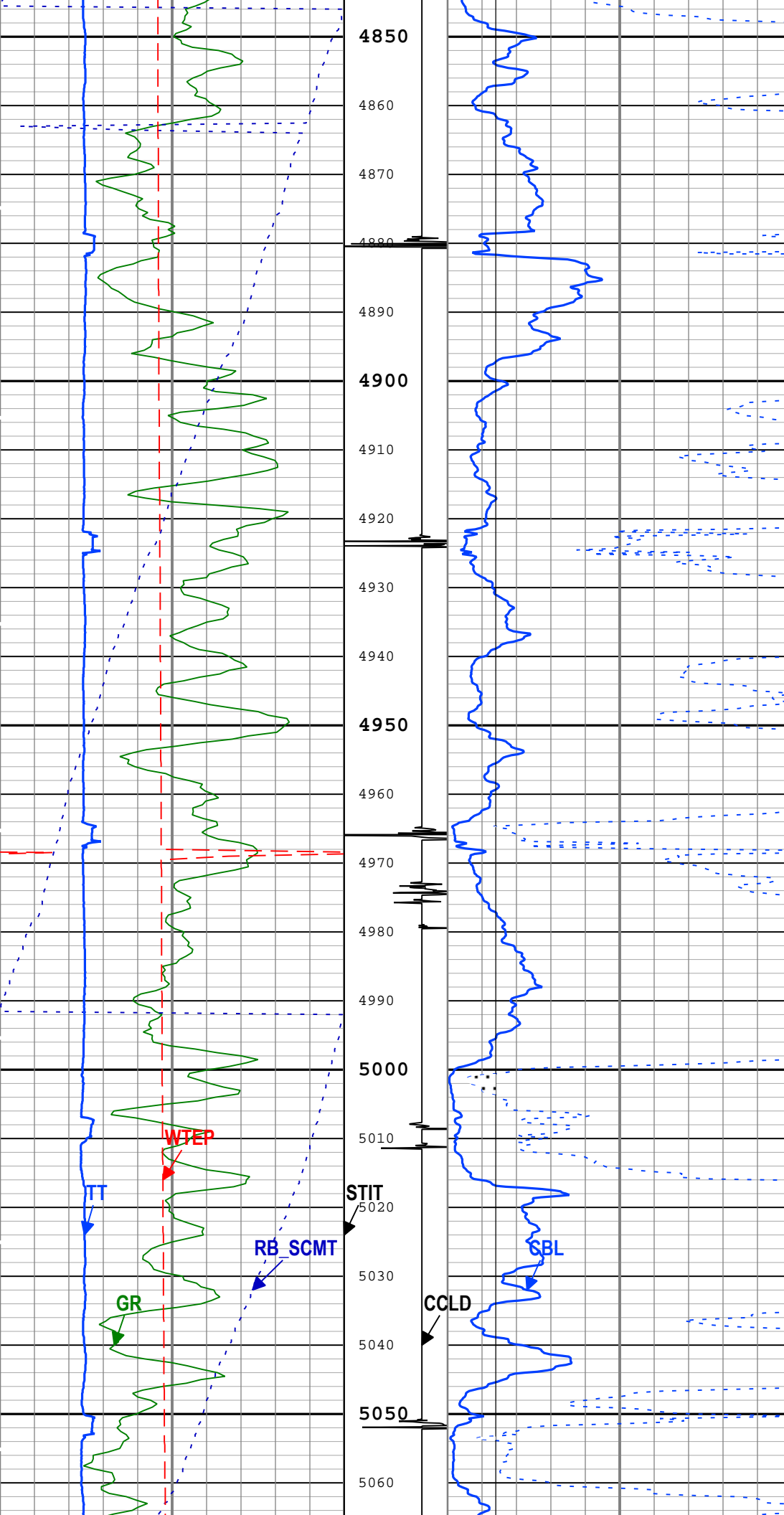


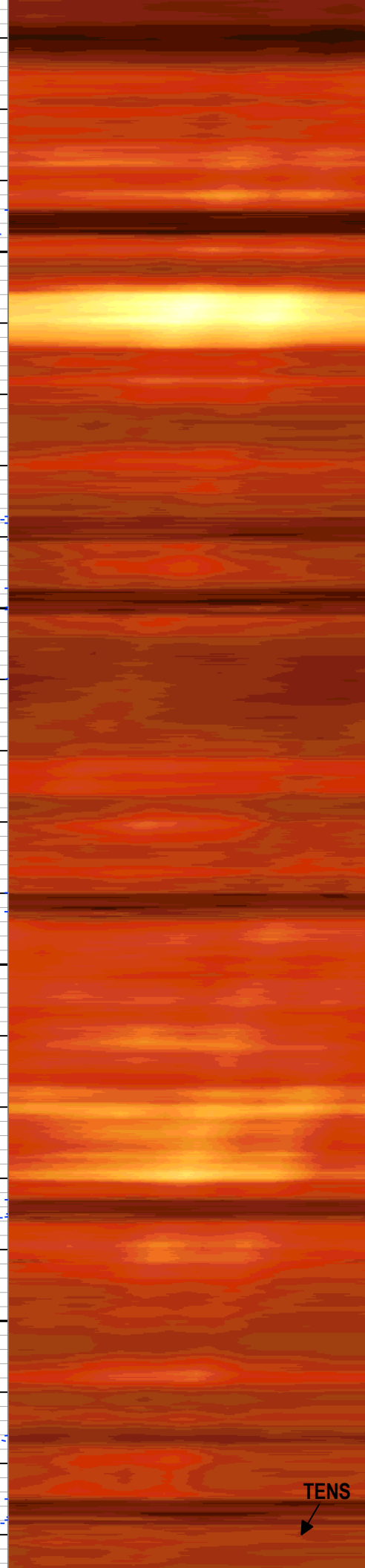
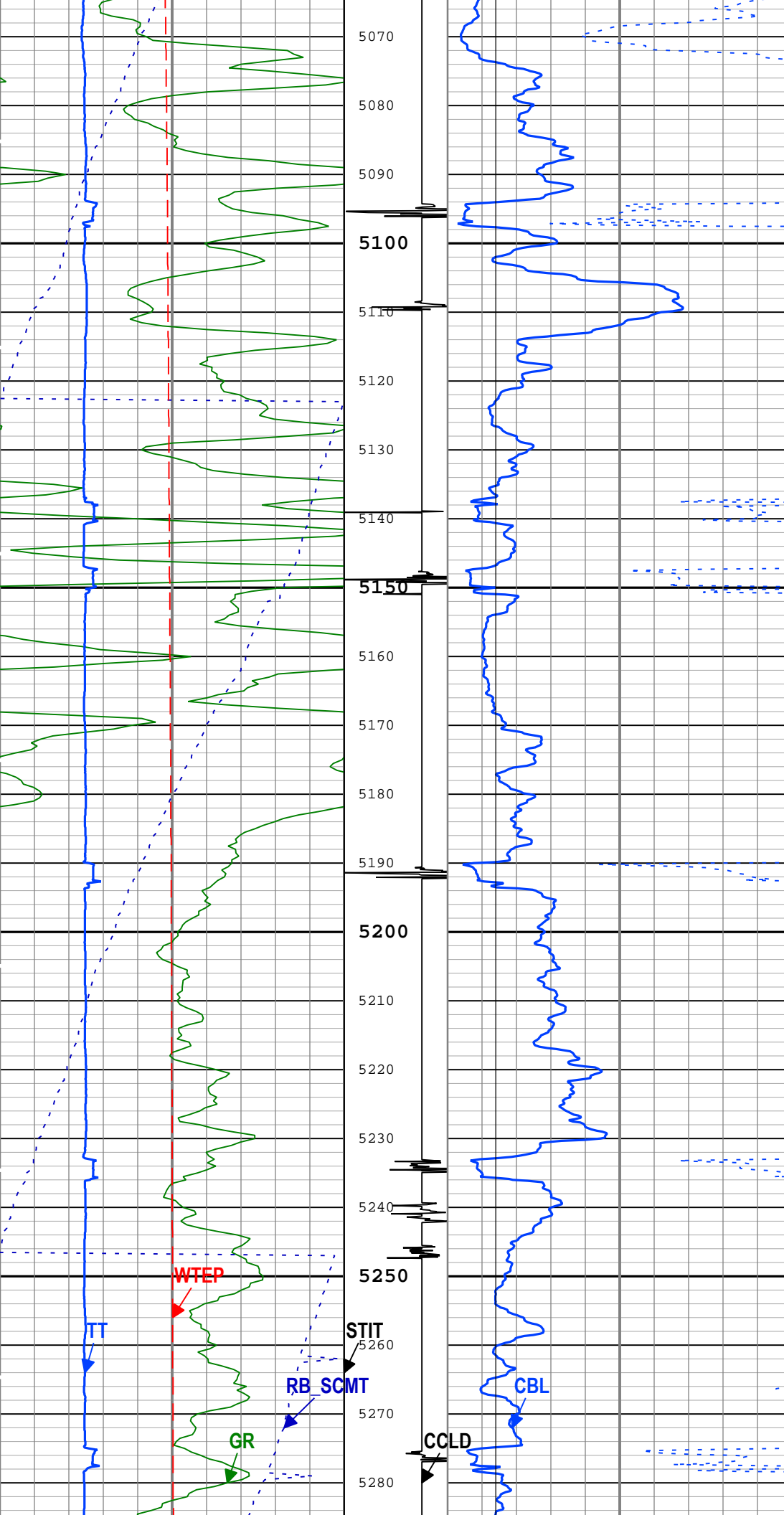




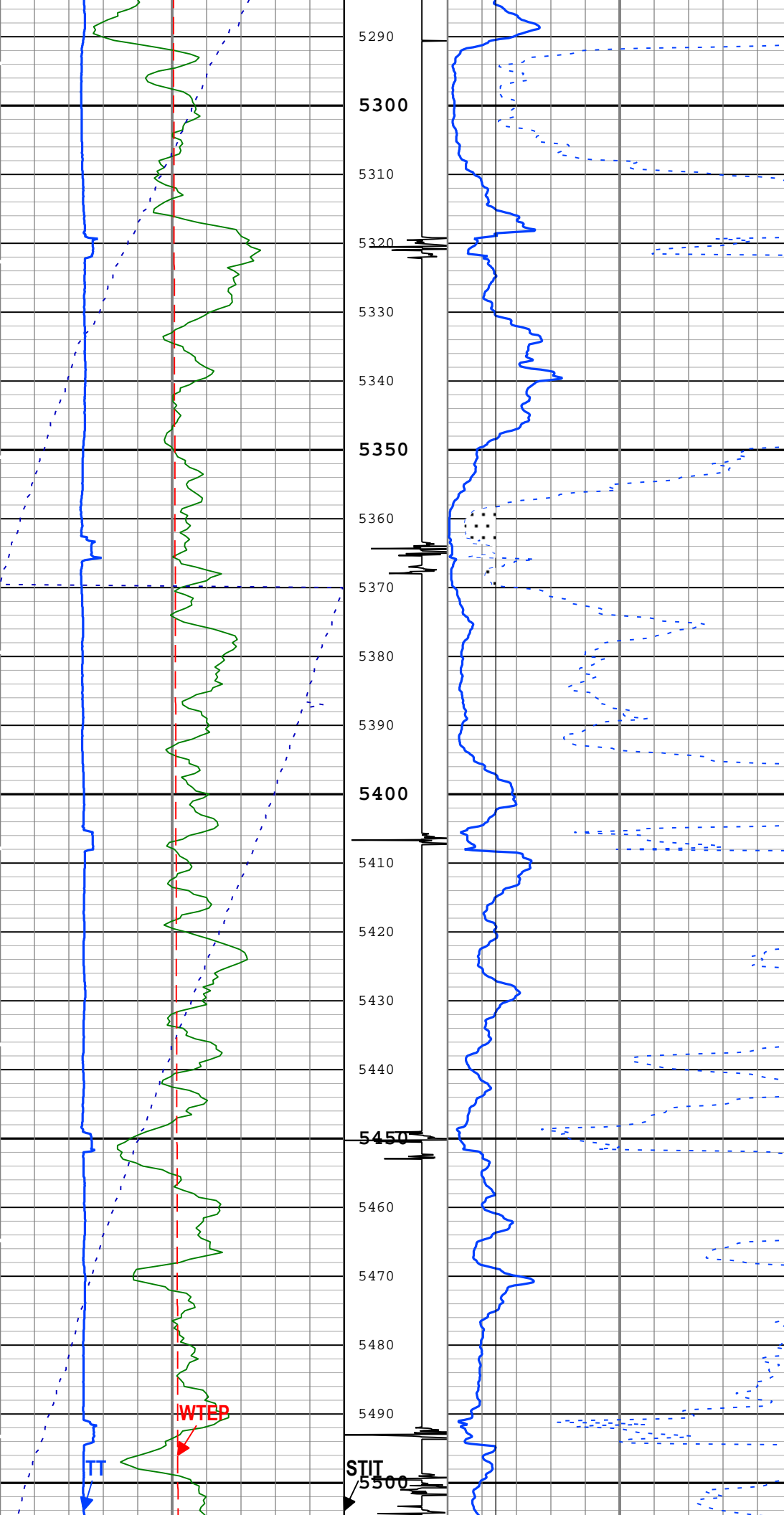




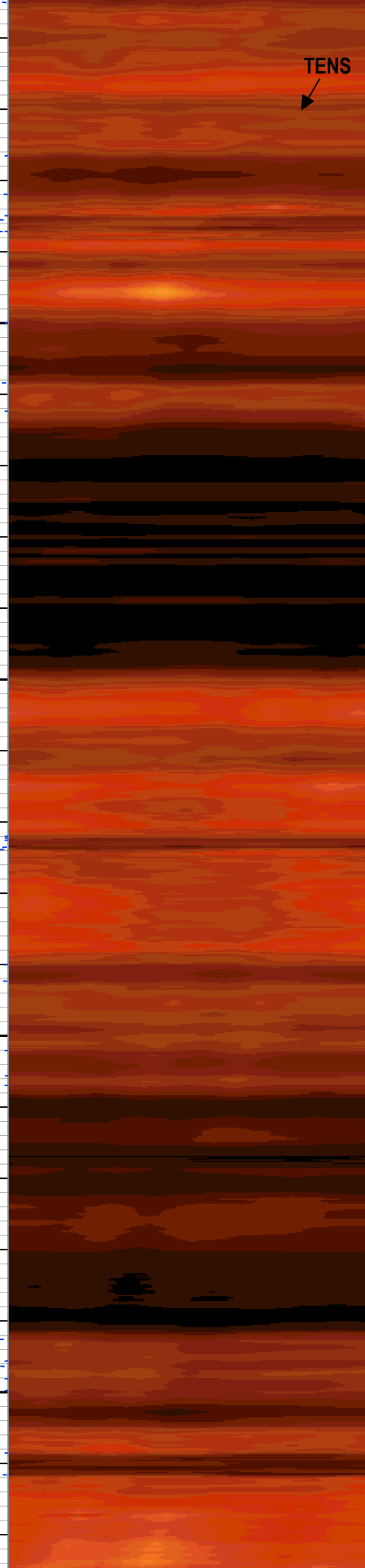
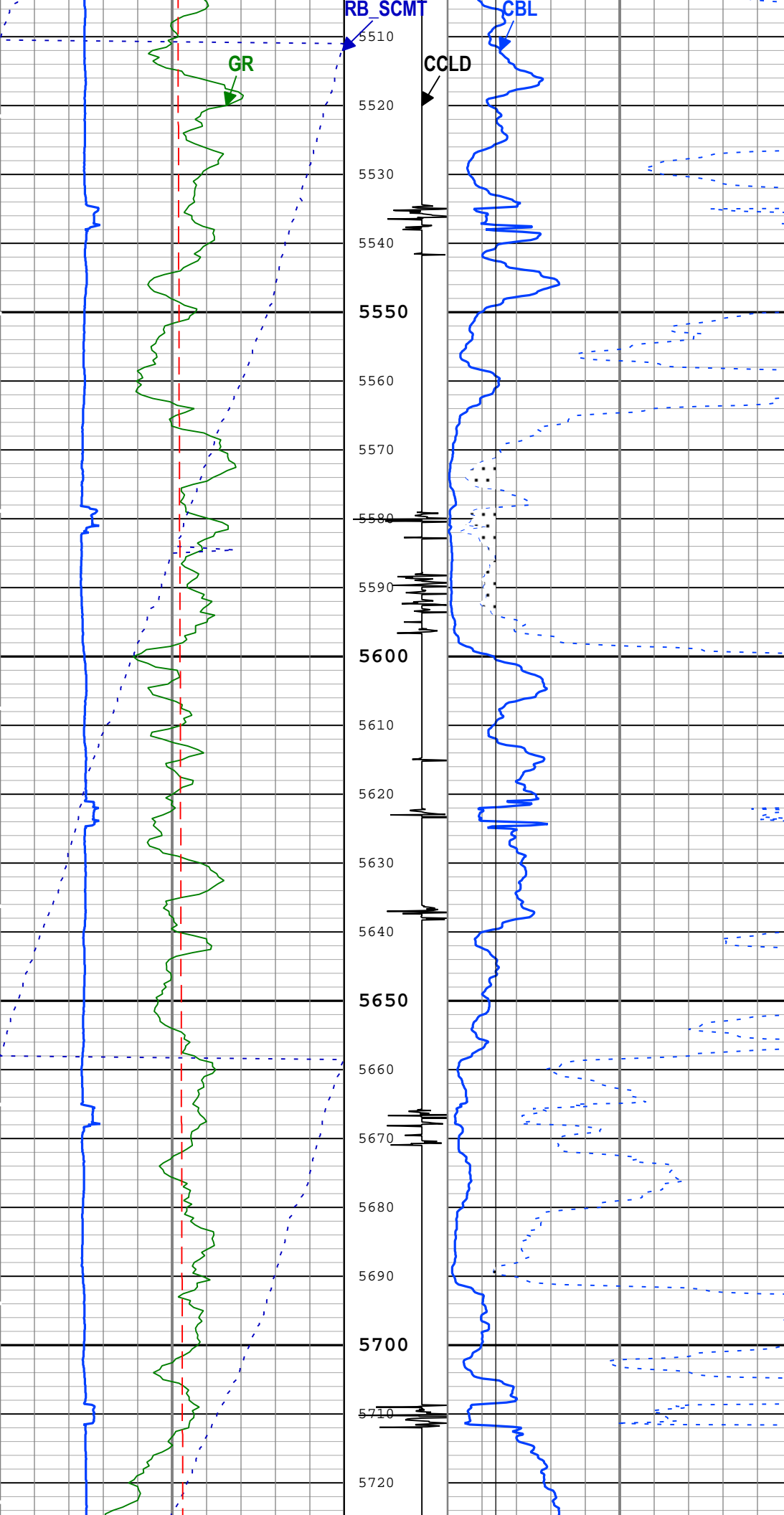


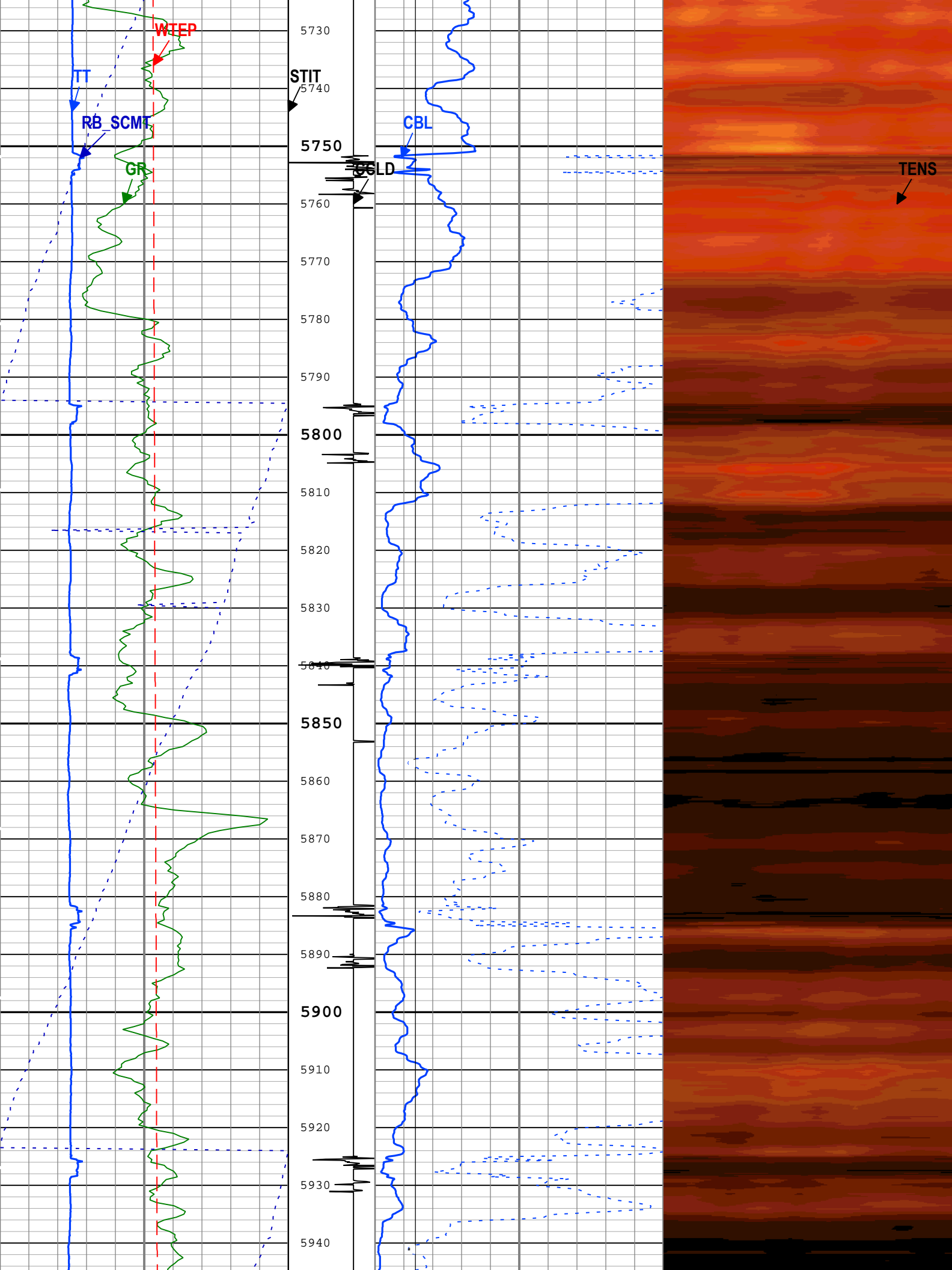


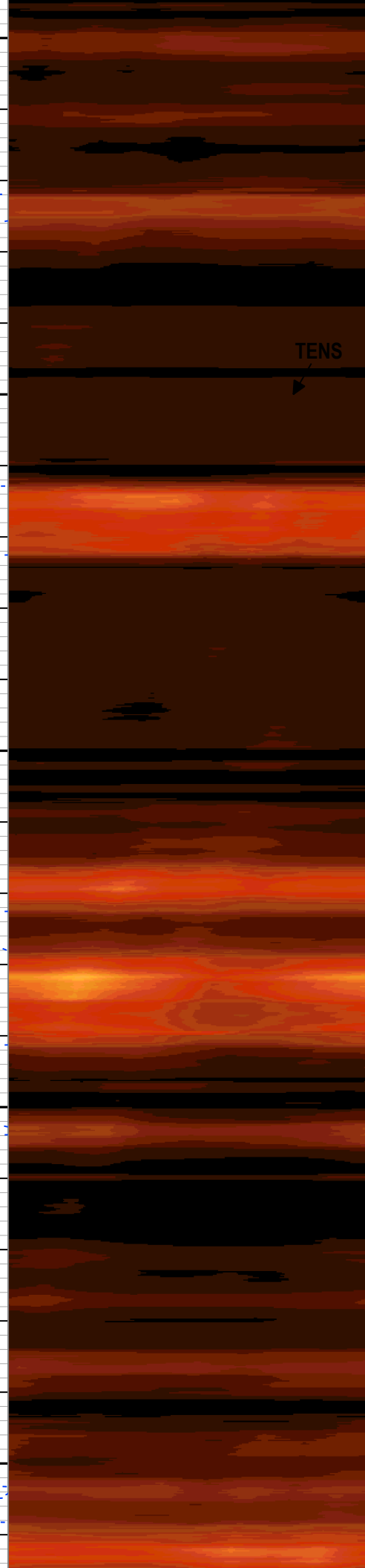
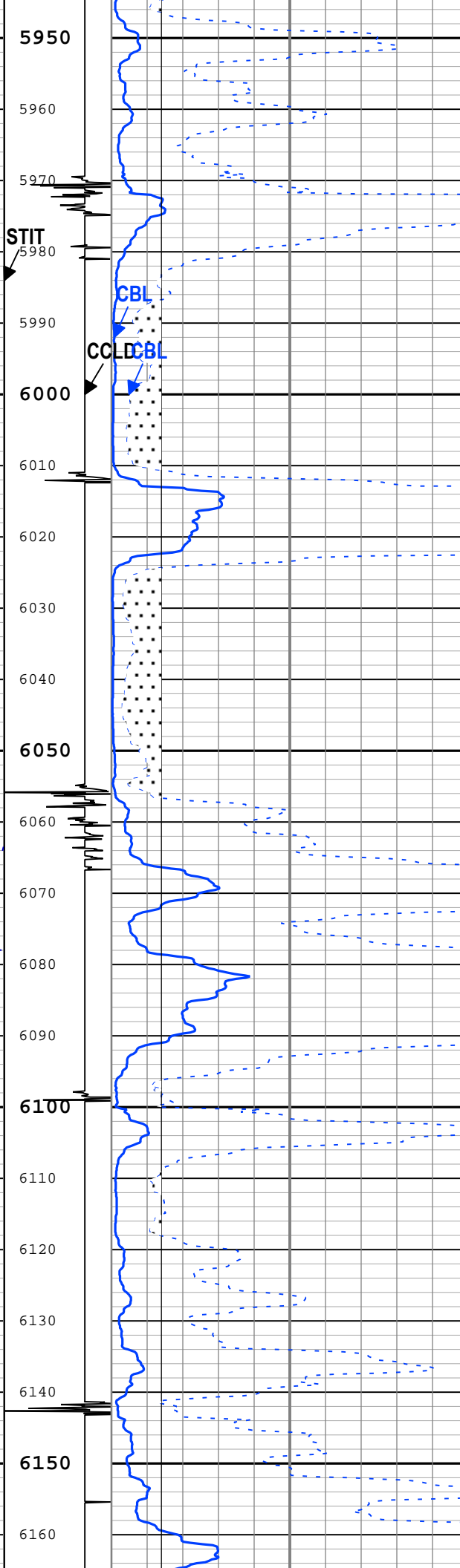
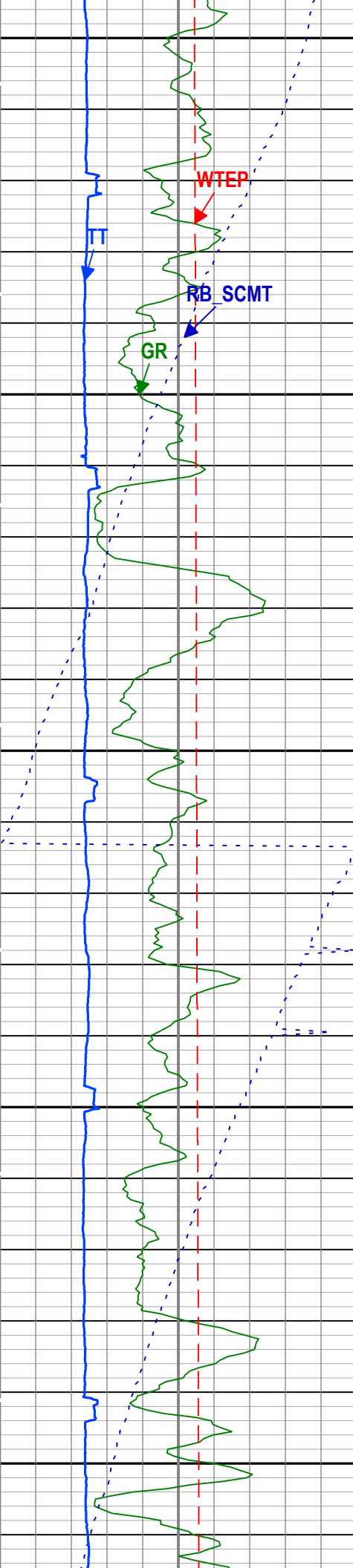
TENS

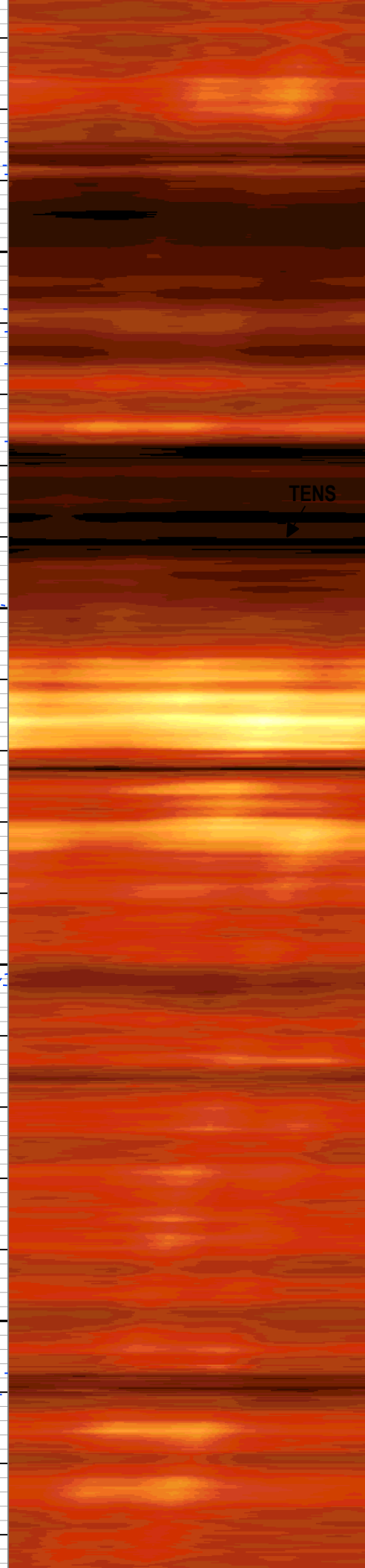
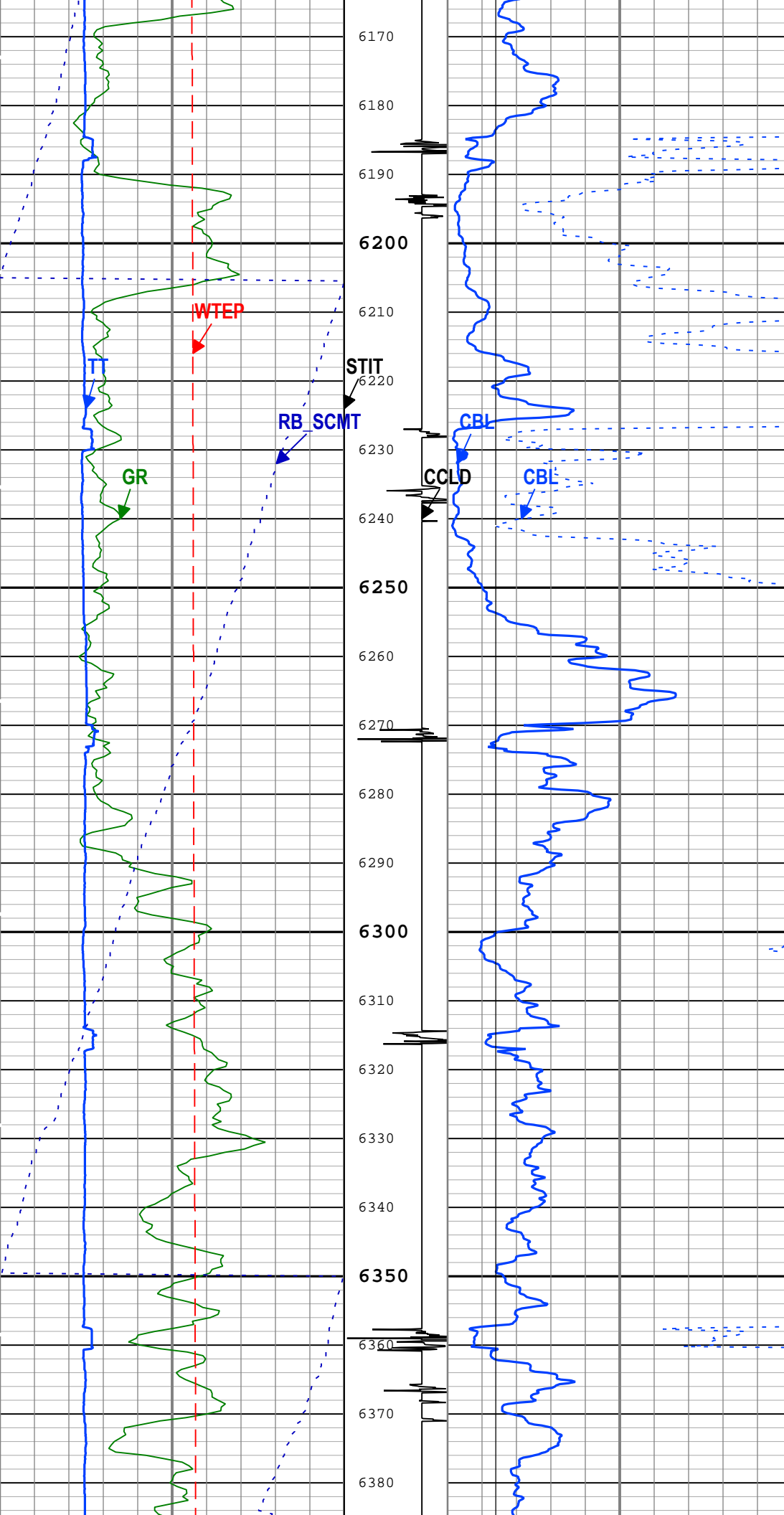


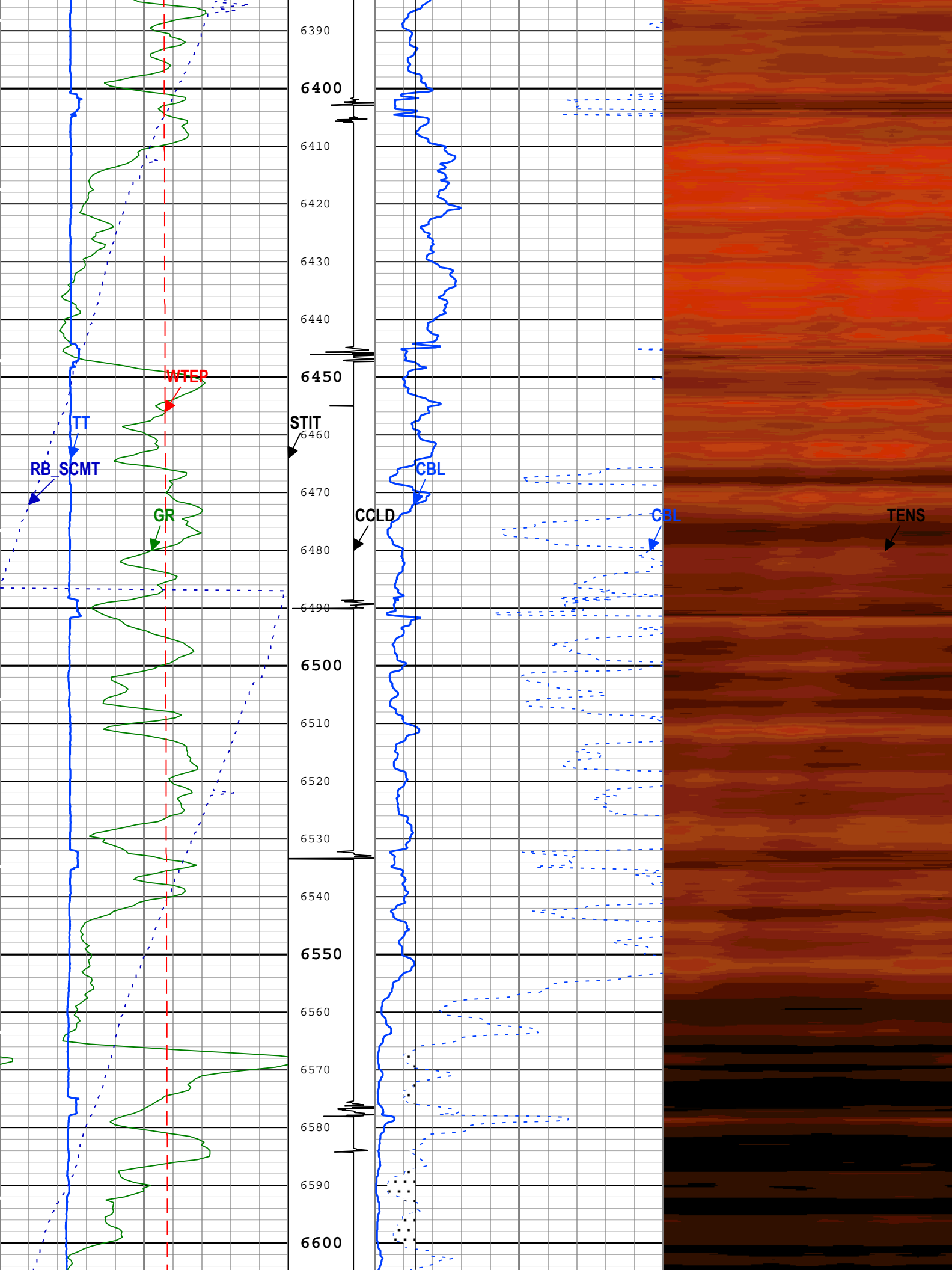


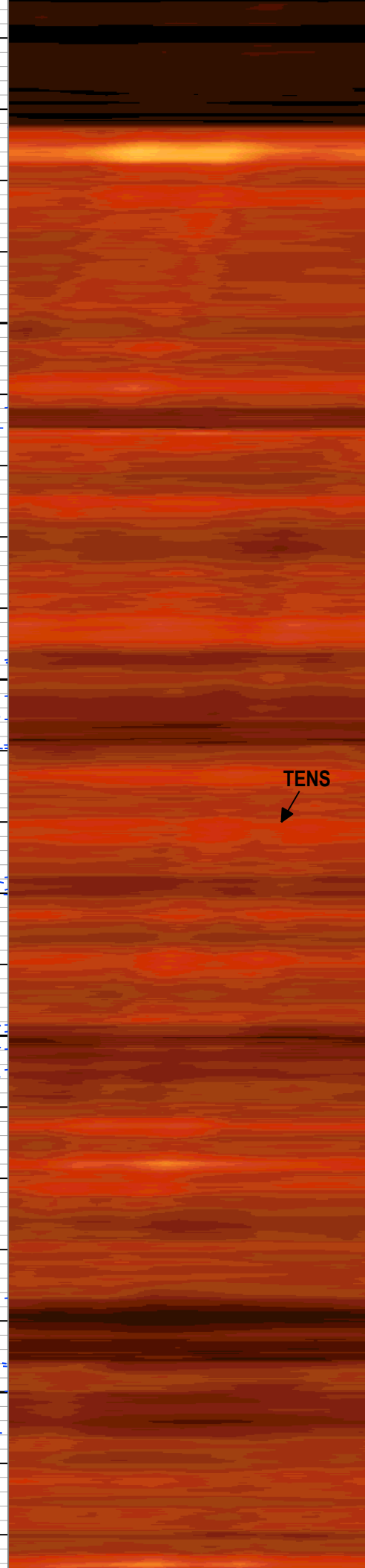
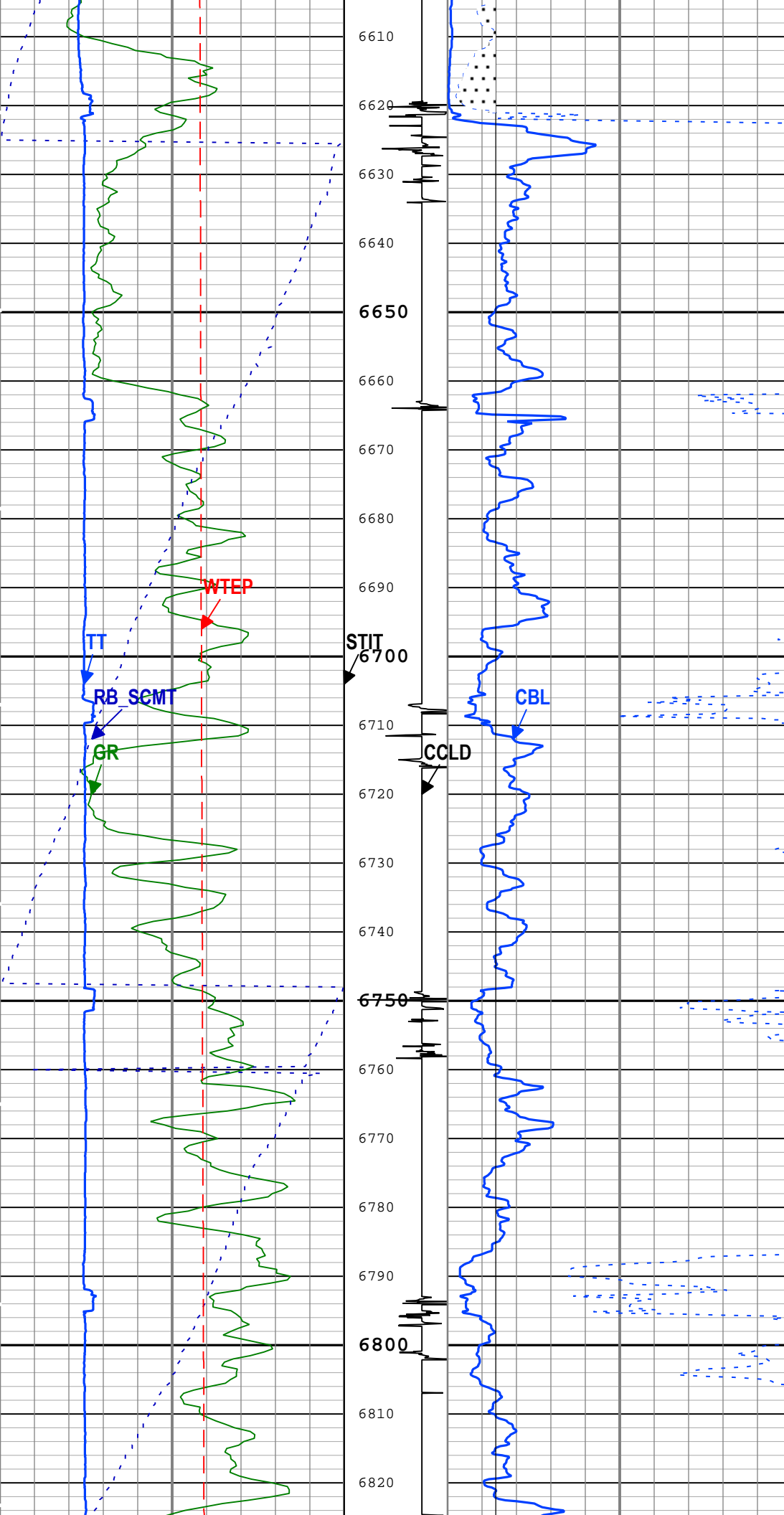


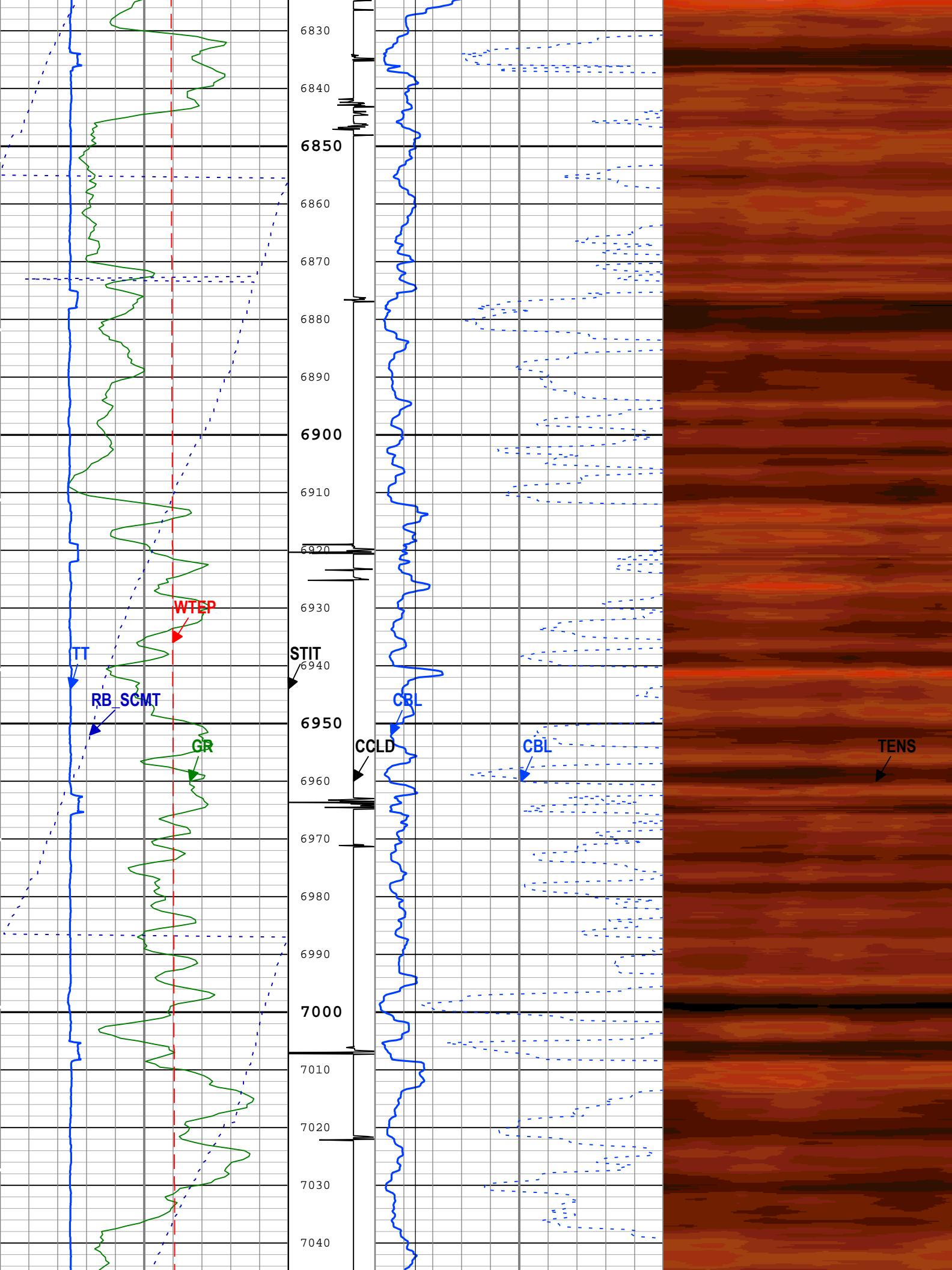


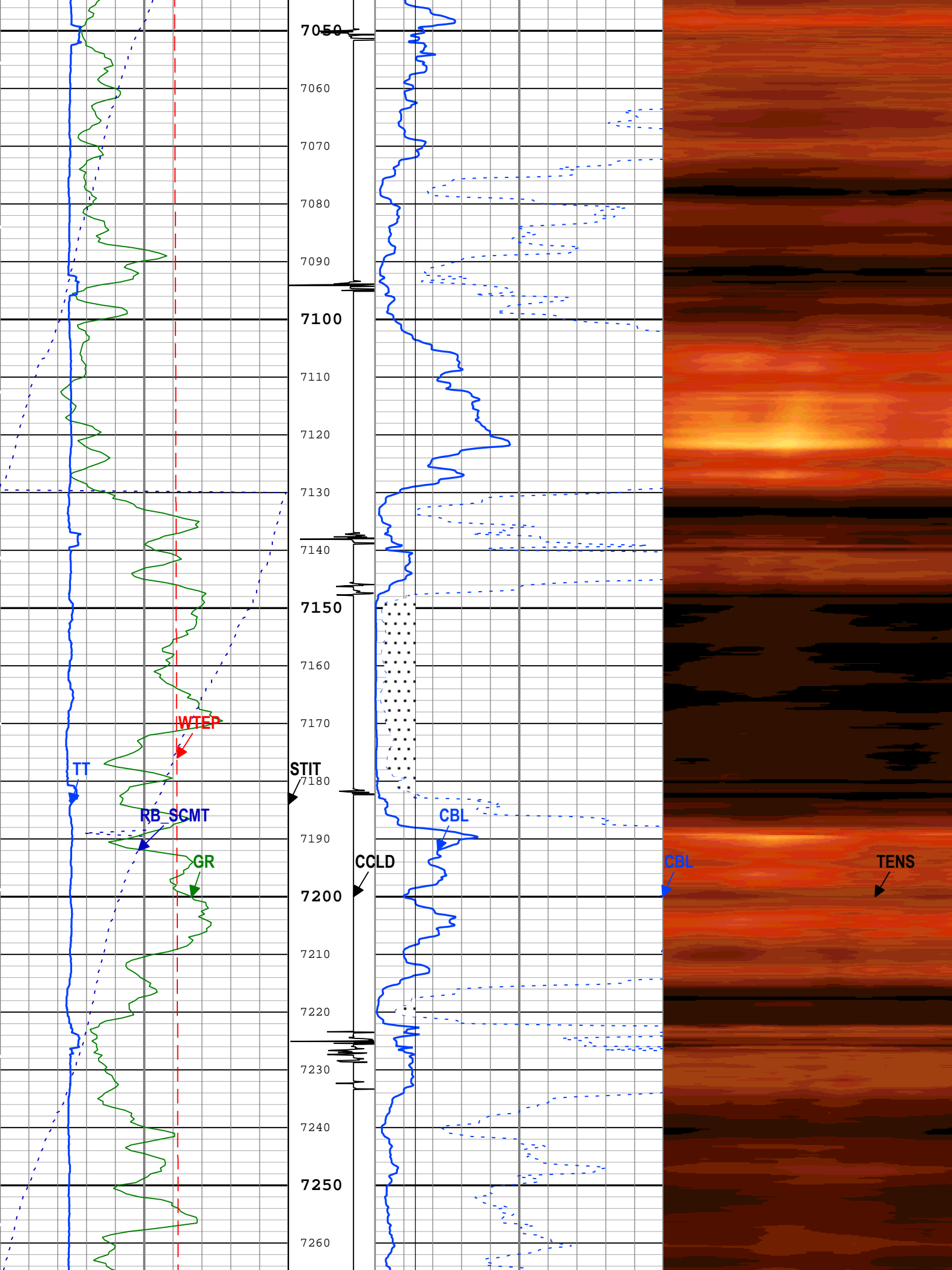




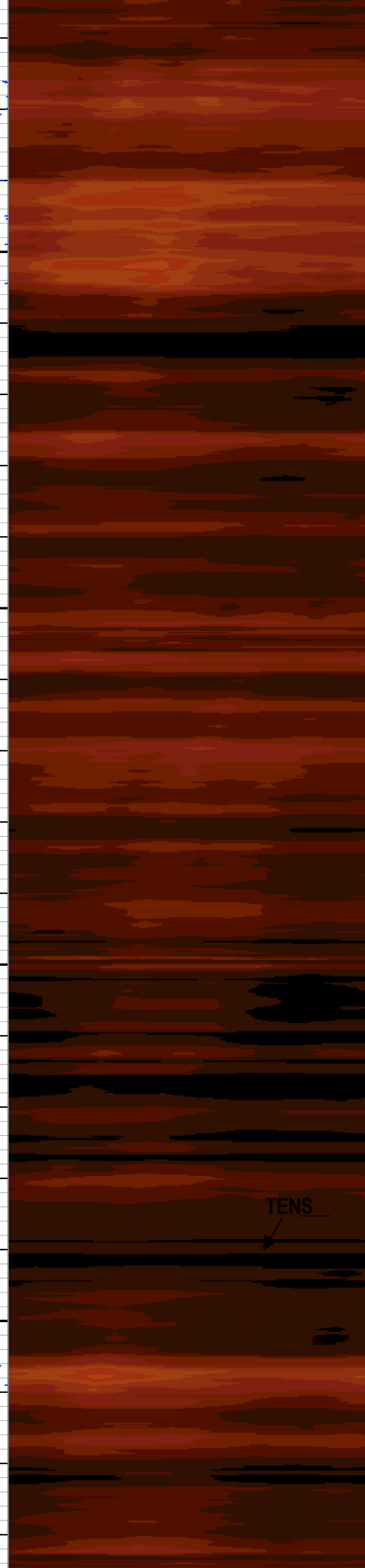
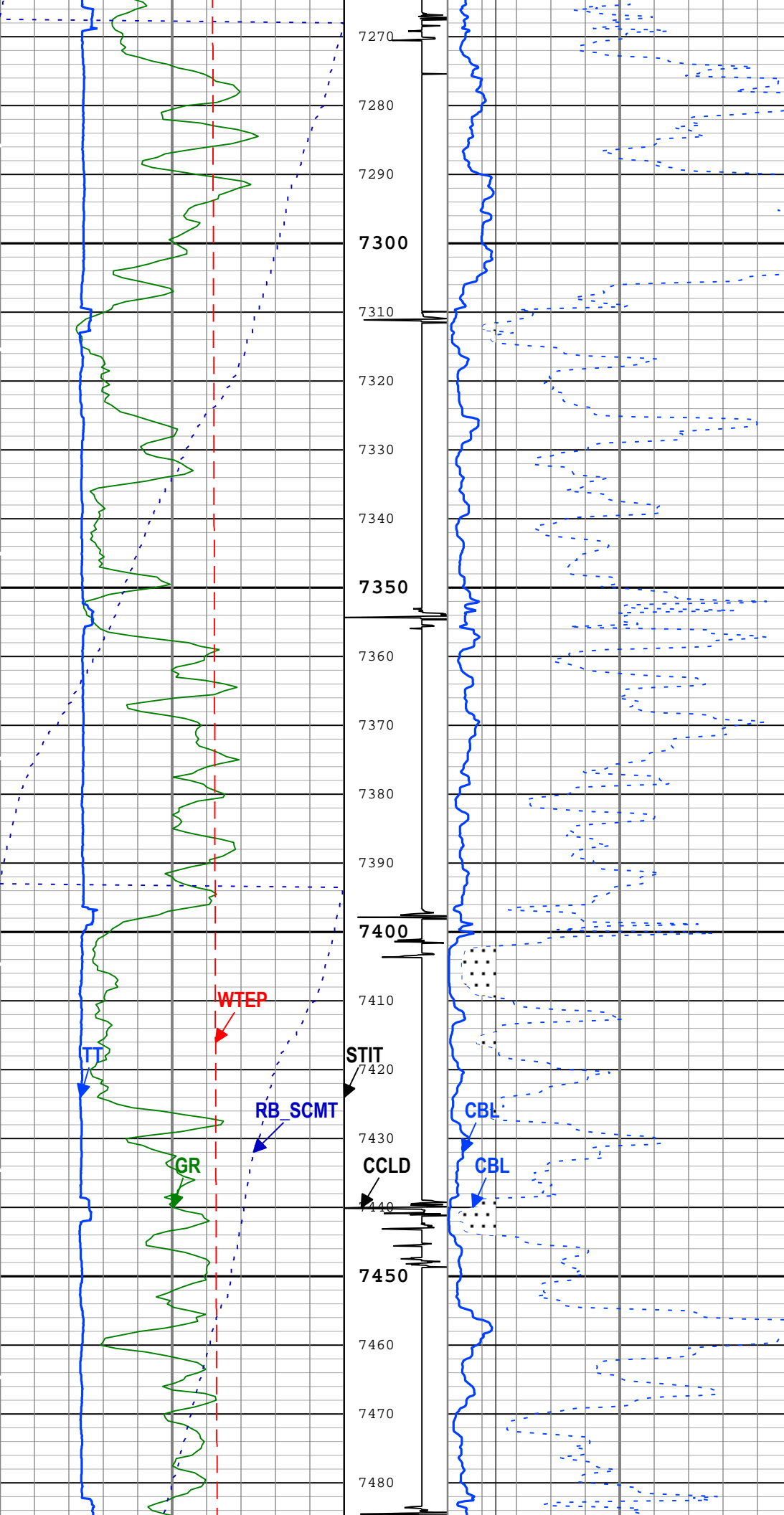


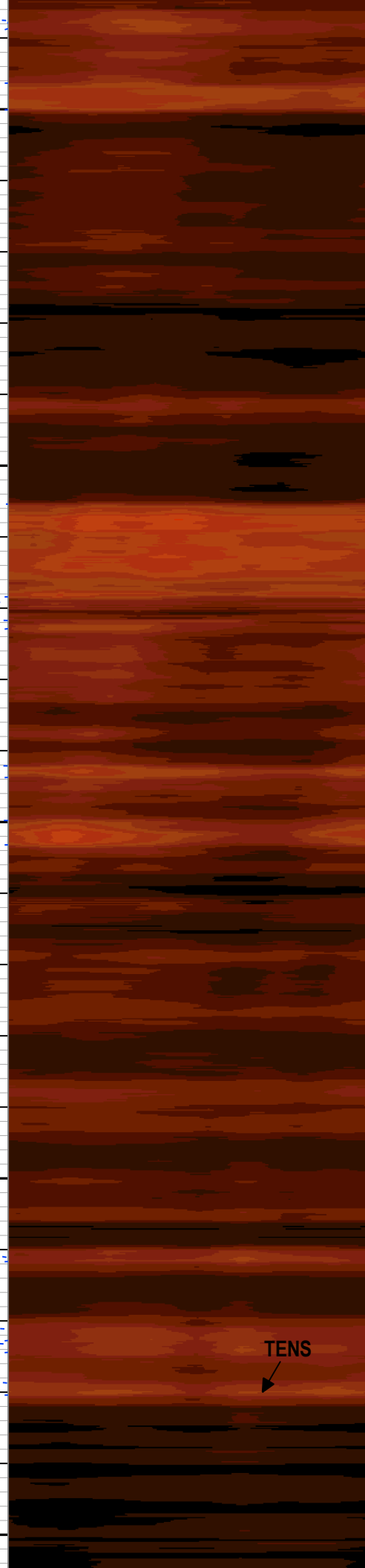
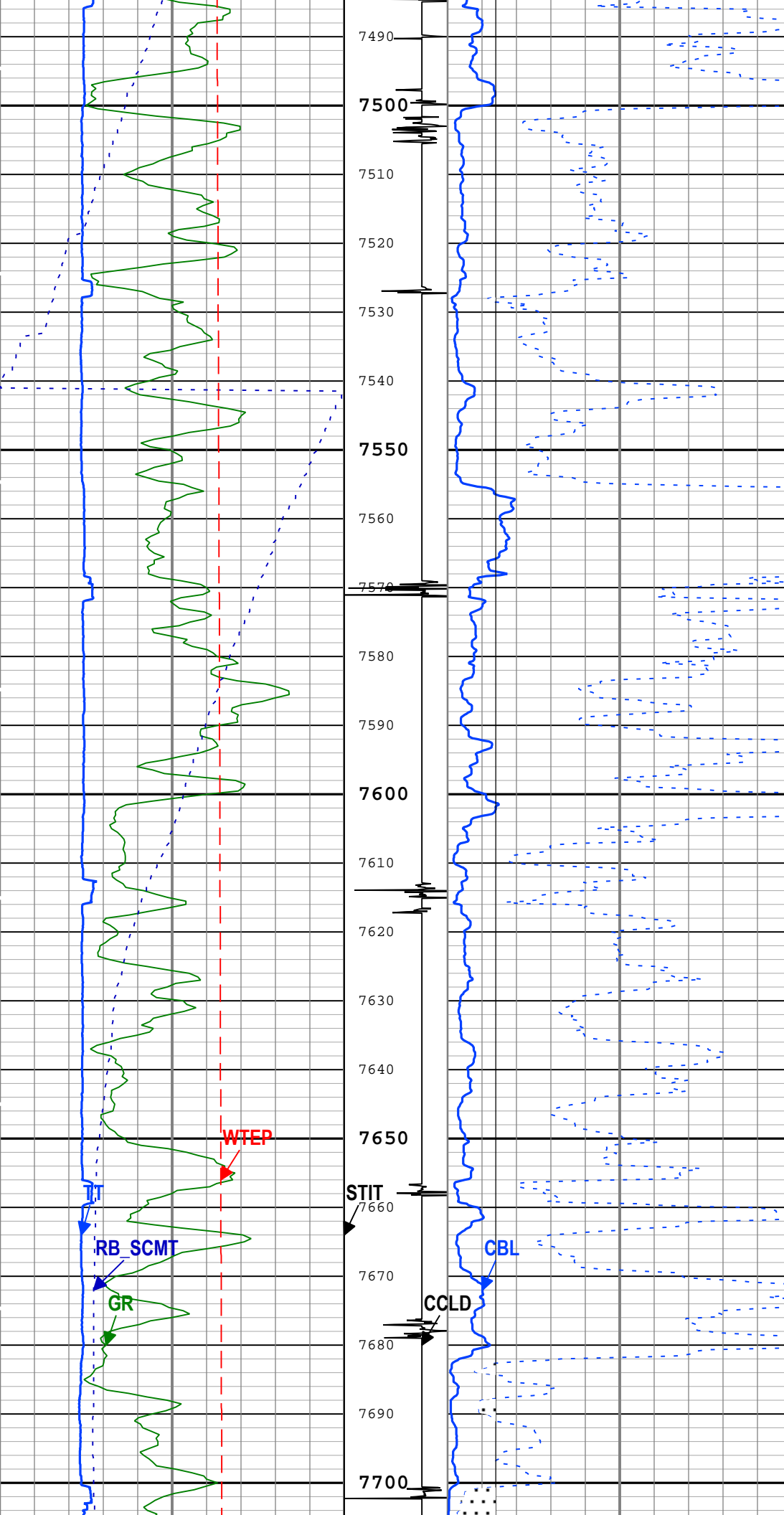


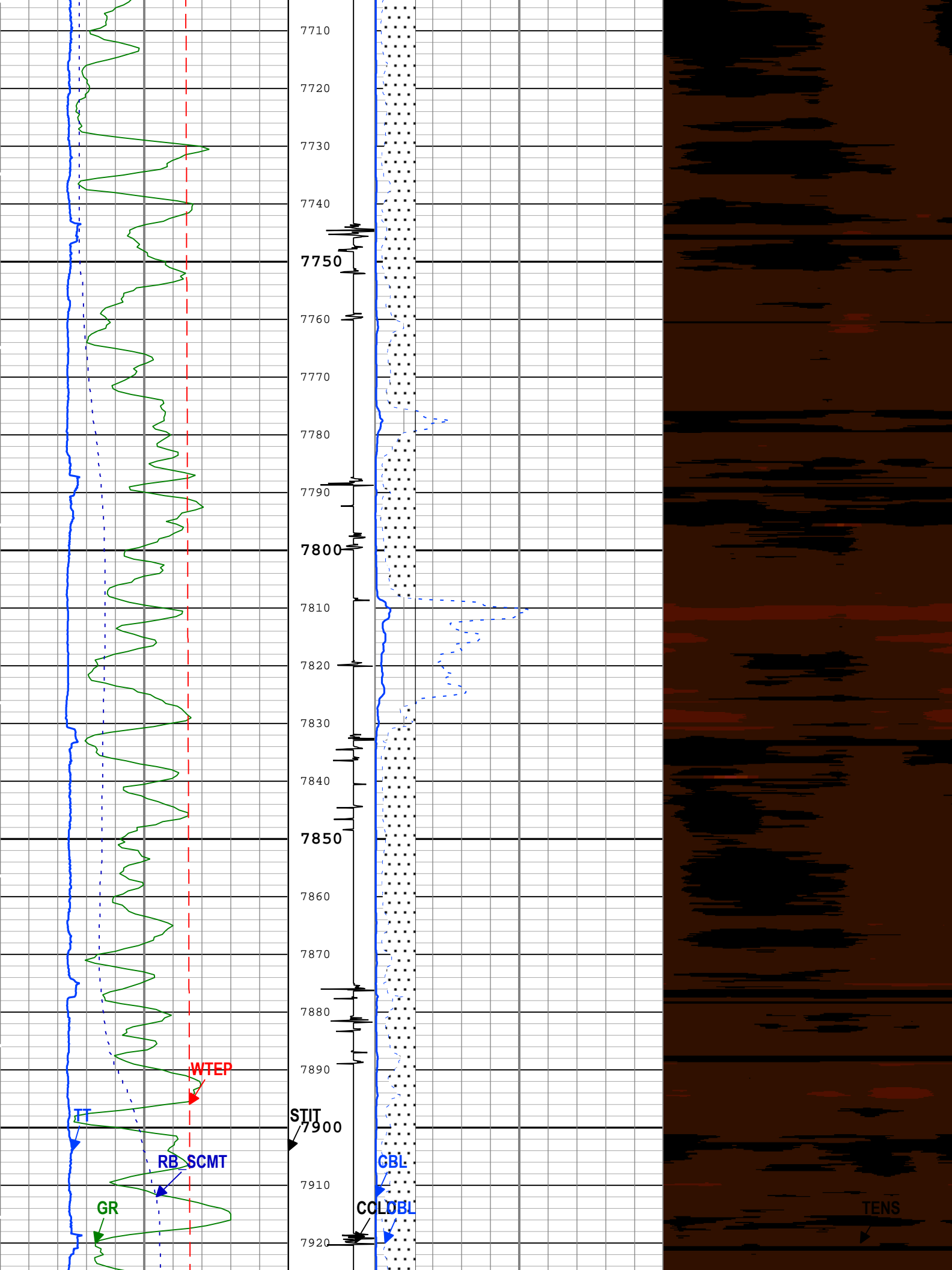


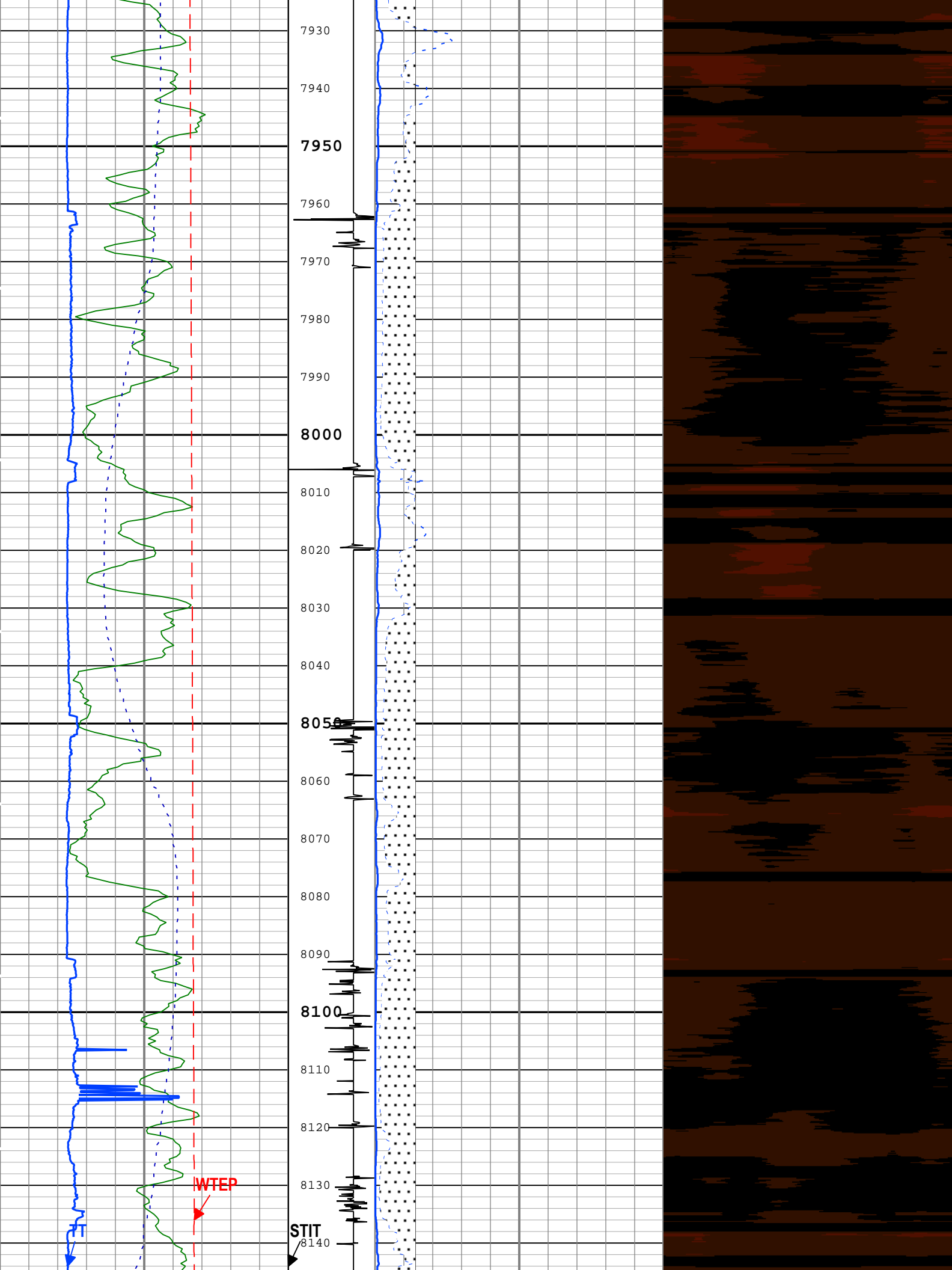


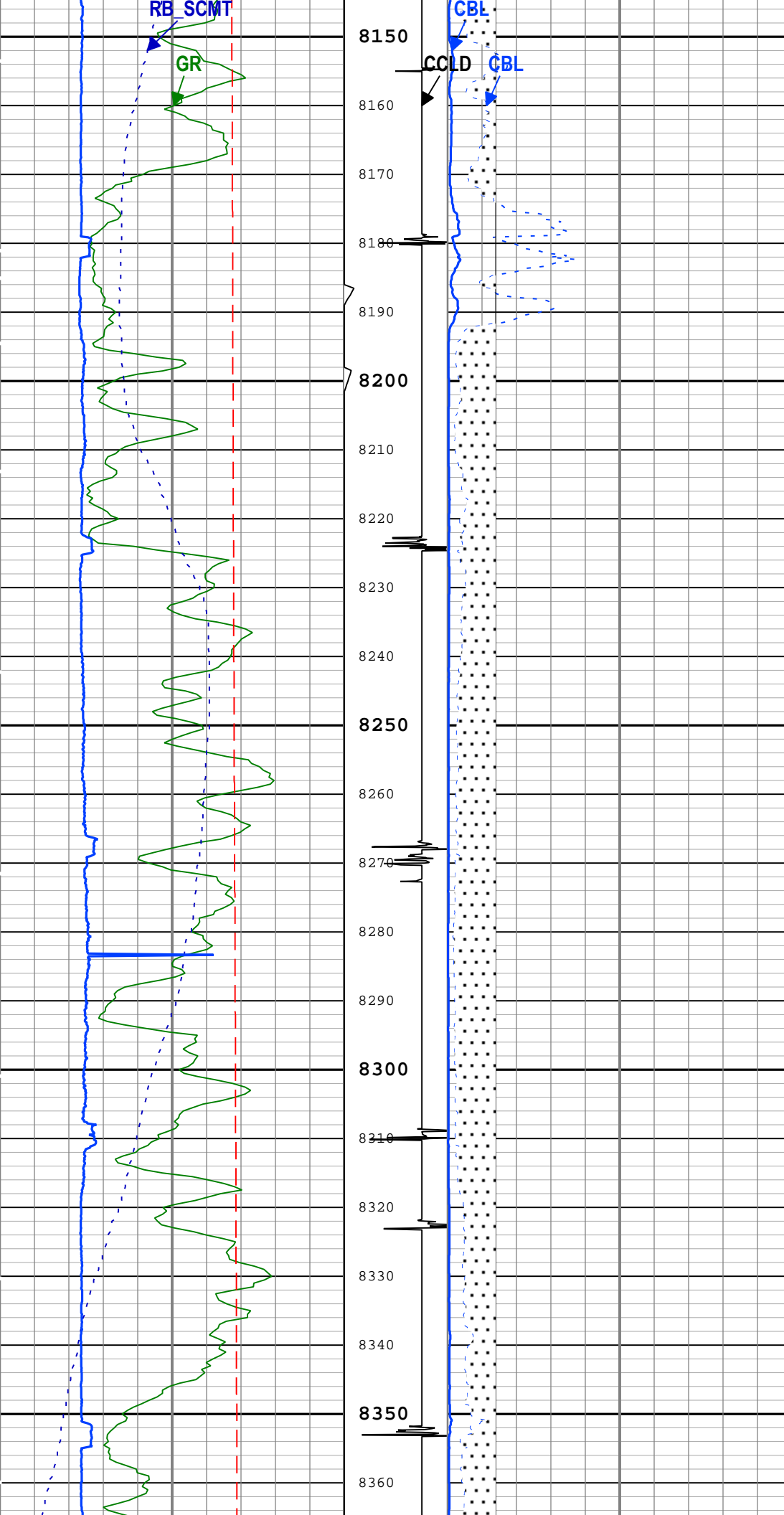


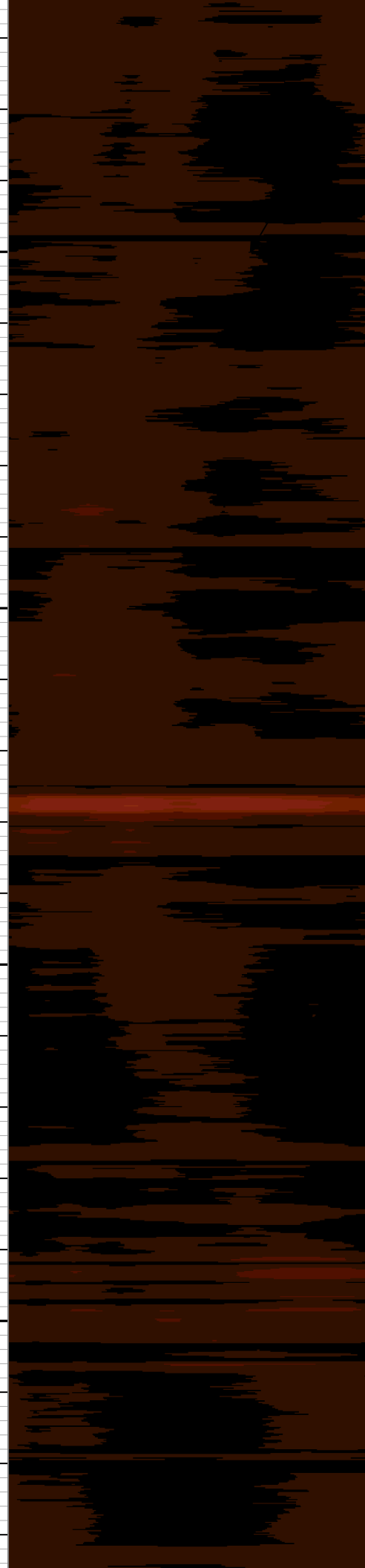
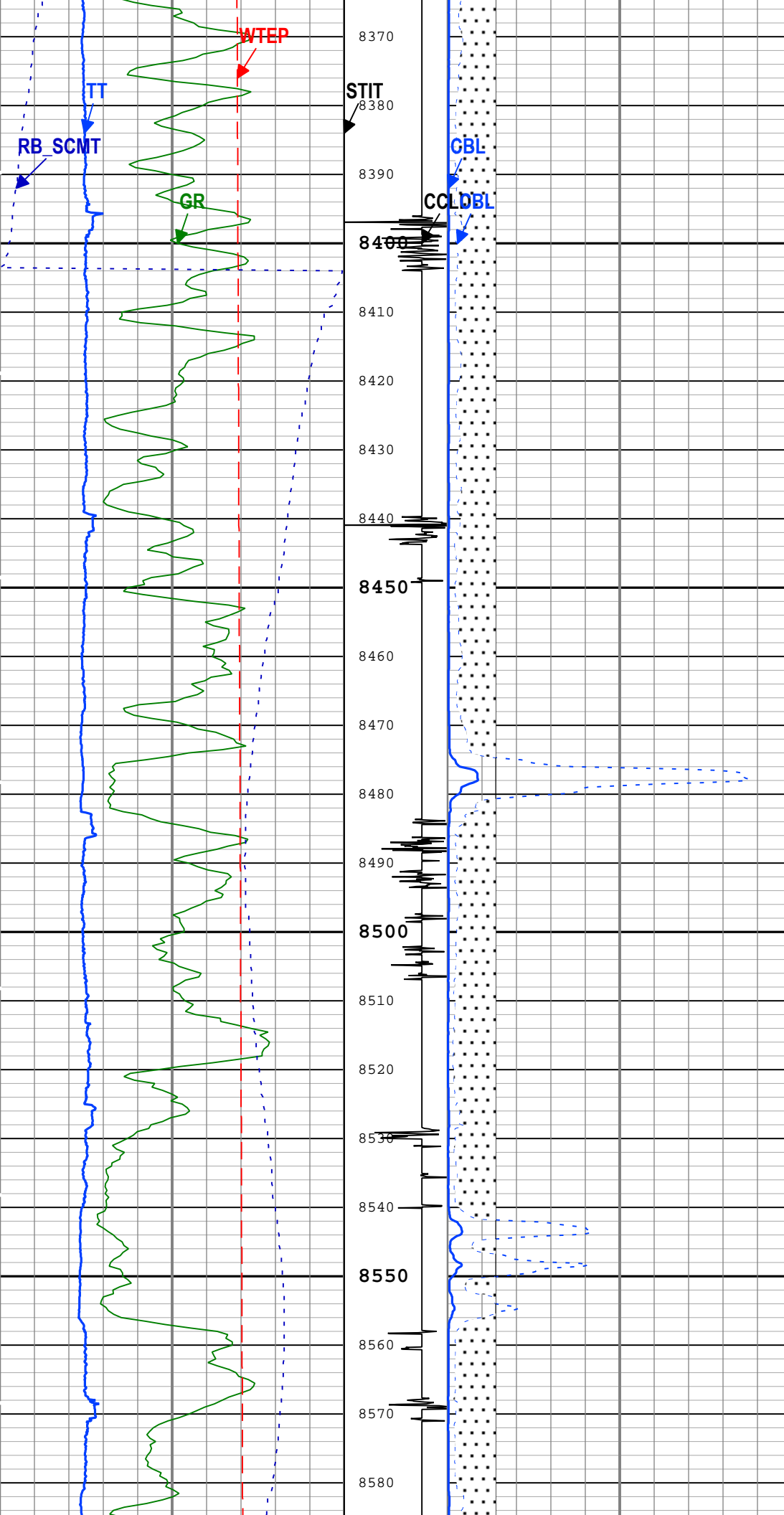


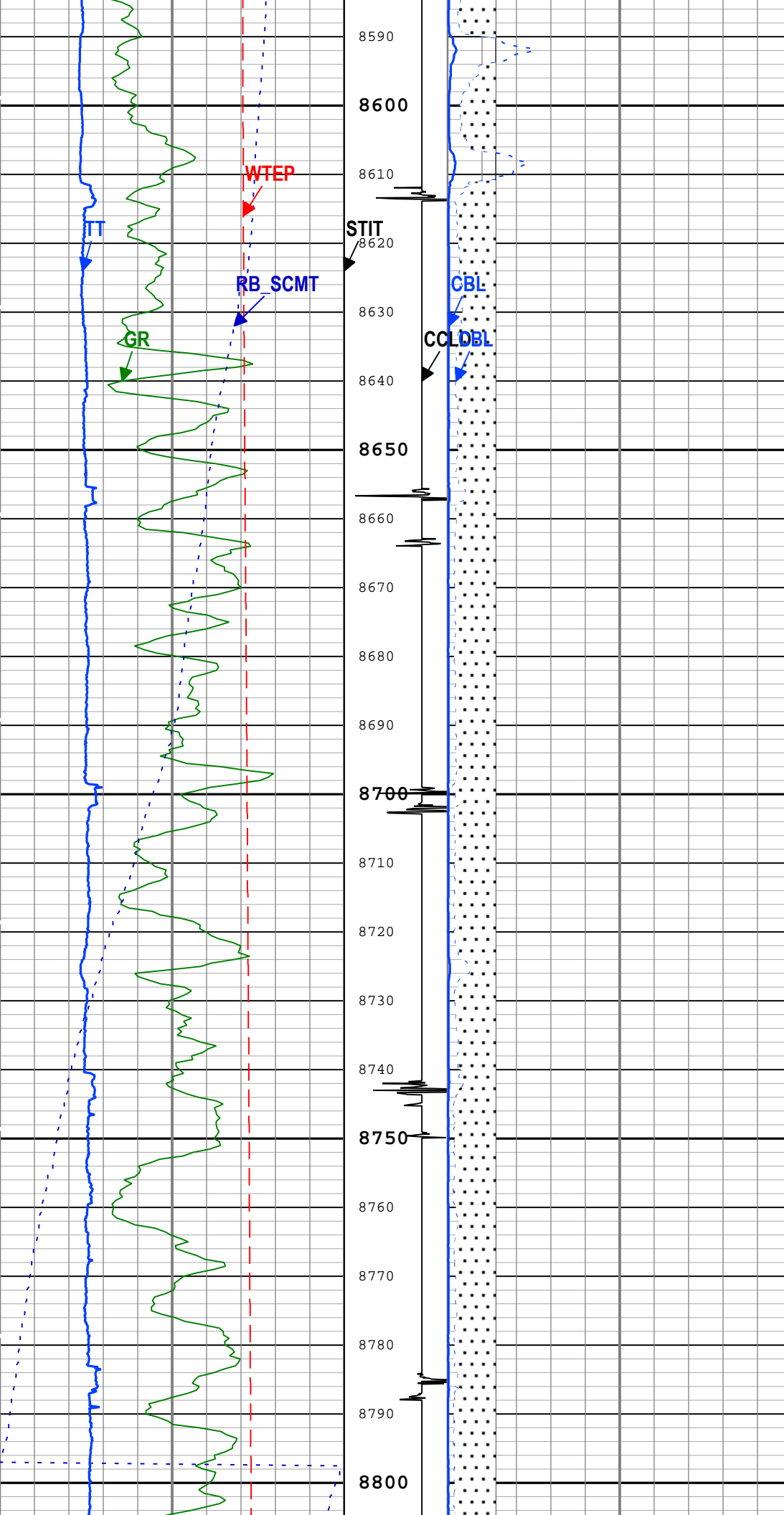


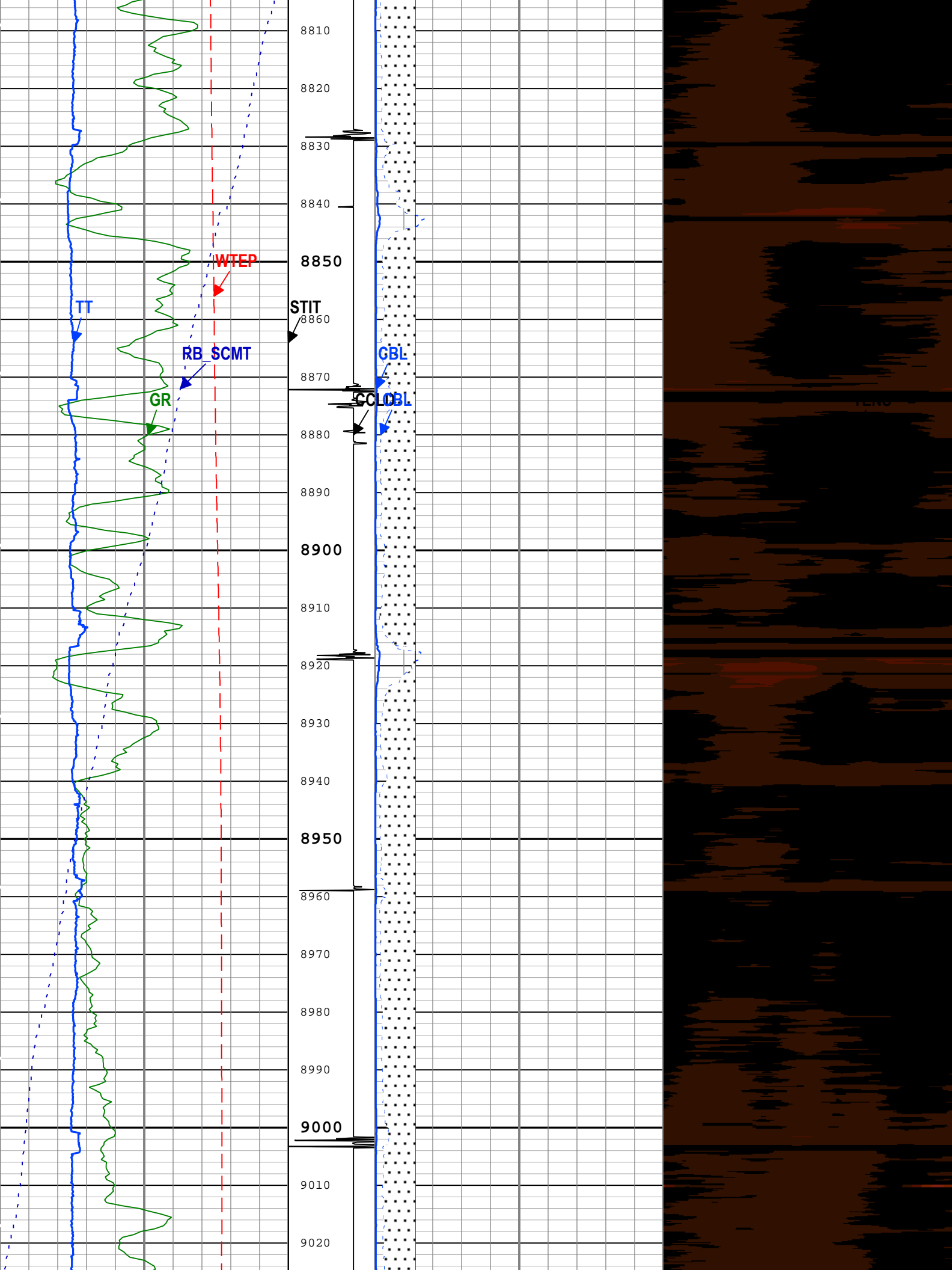




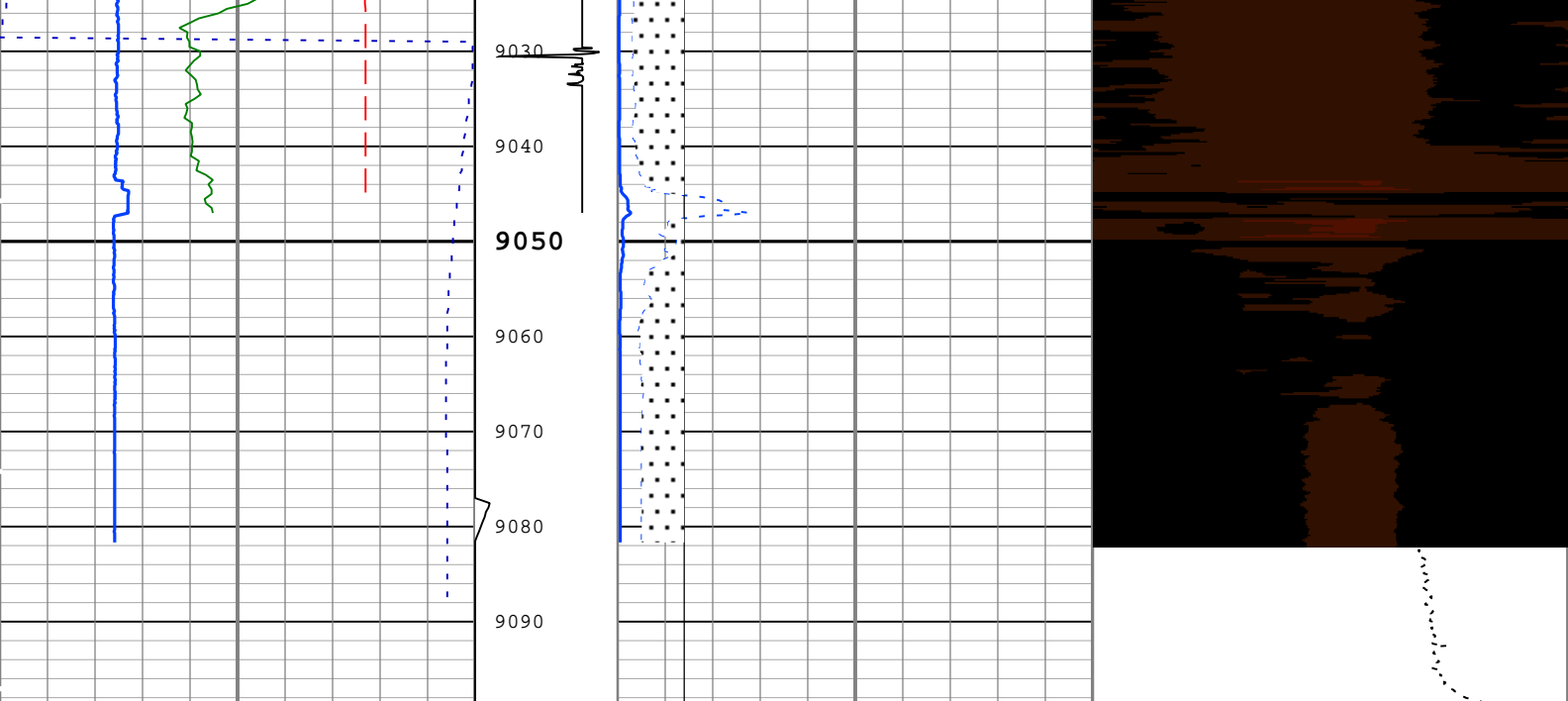












Gamma Ray (GR) PSTP-A[1]			CCL Discriminated Amplitude (CCLD) PSTP-A[1]  3 V -1  Stuck Tool Indicator, Total (STIT)  0 ft 50	CBL Amplitude (CBL) SCMT-CB[1]		Cable Tension (TENS)										
0	gAPI 150			0	mV 10		10000 lbf 0									
Relative Bearing (RB_SCMT) SCMT-CB[1]				CBL Amplitude (CBL) SCMT-CB[1]		<div>Absent 5,000 12,500 20,000 27,500 35,000 42,500 50,000 57,500 65,000 72,500 80,000 87,500 95,000 102,500</div> <div>CBL Amplitude Mapping Image (0 - 100) SCMT-CB[1]</div>										
0	deg 360			0	mV 100											
Transit Time for CBL (TT) SCMT-CB[1]				Good Bond (GOBO)												
200	us 400			0	mV 10											
Well Temperature (WTEP) PSTP-A[1]			GoodBond From CBL to GOBO													
0	degF 300															

TIME\_1900 - Time Marked every 60.00 (s)

Description: SCMT Amplitudes and MAP Image    Format: Log ( SCMT\_Amp\_Image\_1 )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured

Depth    Creation Date: 06-Aug-2015 08:25:14

## Channel Processing Parameters

### ONE: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	239	degF
BILI	Bond Index Level for Zone Isolation	SCMT-CB	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	SCMT-CB	Peak	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CB3T	SCMT CBL 3 ft Fixed Threshold Level	SCMT-CB	20	mV
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
CMCF	CBL Cement Type Compensation Factor	SCMT-CB	0.12	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	196	us/ft
EITEM	HP Estimated Temperature	PSTP-A	212	degF

TEMP	TM Estimated Temperature	TCMT-A	2.12	deg.
FCF	CBL Fluid Compensation Factor	SCMT-CB	0.89	
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	7.87	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MAPD	SCMT MAP Peak Detection Mode	SCMT-CB	Peak	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-CB	167	us
MAPT	SCMT MAP Fixed Threshold Level	SCMT-CB	30	mV
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	10.14	dB/ft
MCCF	MAP Cement Type Compensation Factor	SCMT-CB	0.25	
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MMSA	MAP Minimum Sonic Amplitude	SCMT-CB	3.98	mV
MSA	Minimum Sonic Amplitude	SCMT-CB	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	4.41	mV
PTCO	PBMS Pressure Temperature Correction Option	PSTP-A	Gauge Temperature	
RBC	Relative Bearing Correction Allow/Disallow	SCMT-CB	Allow	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
ZCMT	Acoustic Impedance of Cement	SCMT-CB	3.4	Mrayl
ZCMT_NEAT	Acoustic Impedance of Cement in Neat Cement	SCMT-CB	6.8	Mrayl

ONEDepth Zoned Parameters				
Parameter	Value	Start ( ft )	Stop ( ft )	
MCI	14.81	2368.5	2510	
MCI	1.25	2510	9098.5	
All depth are actual.				

Tool Control Parameters	
-------------------------	--

ONE: Parameters				
Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	36 dB	

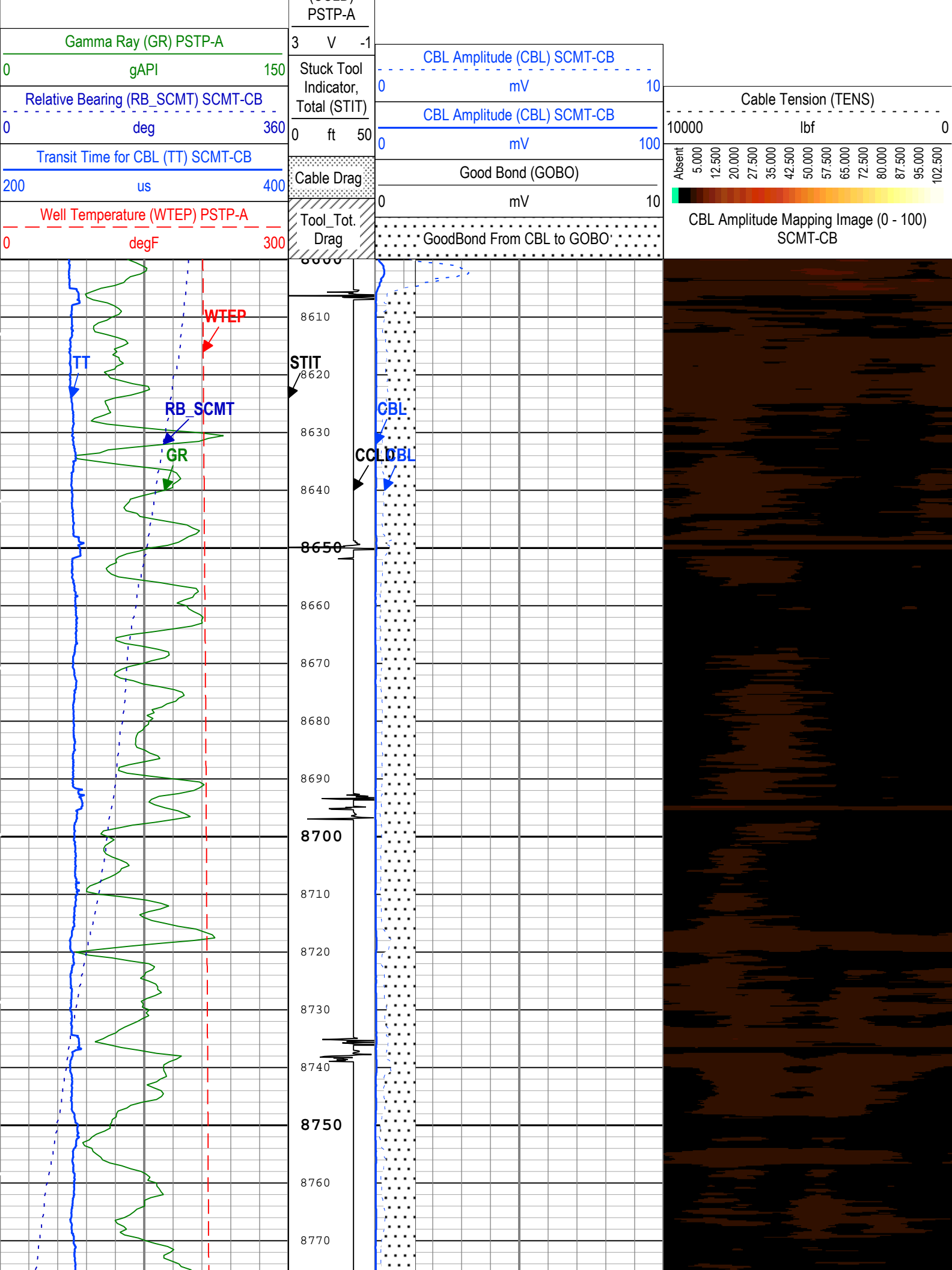
ONE									

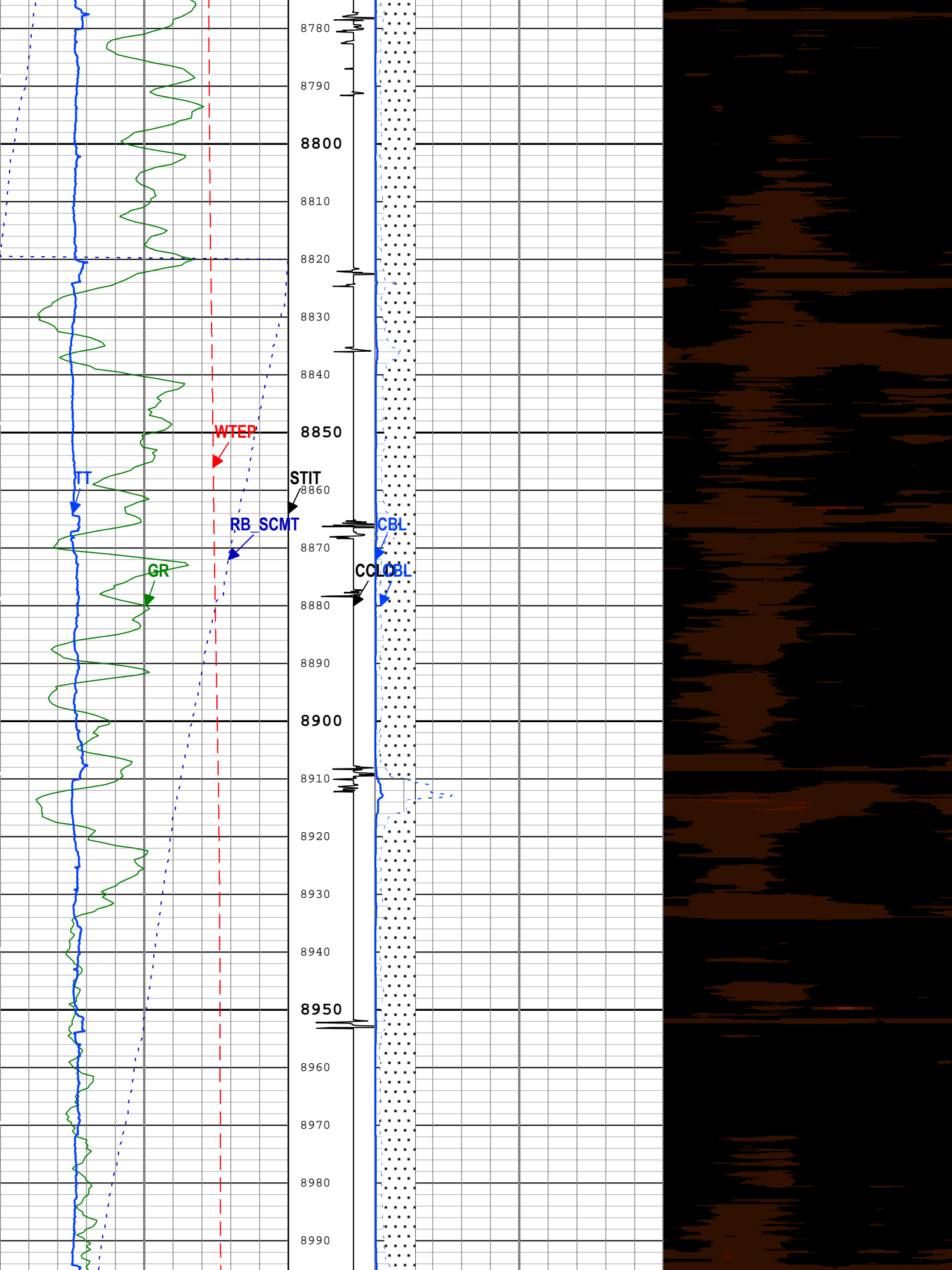
Software Version	
Acquisition System	Version
Maxwell 2016	6.0.47569.3100

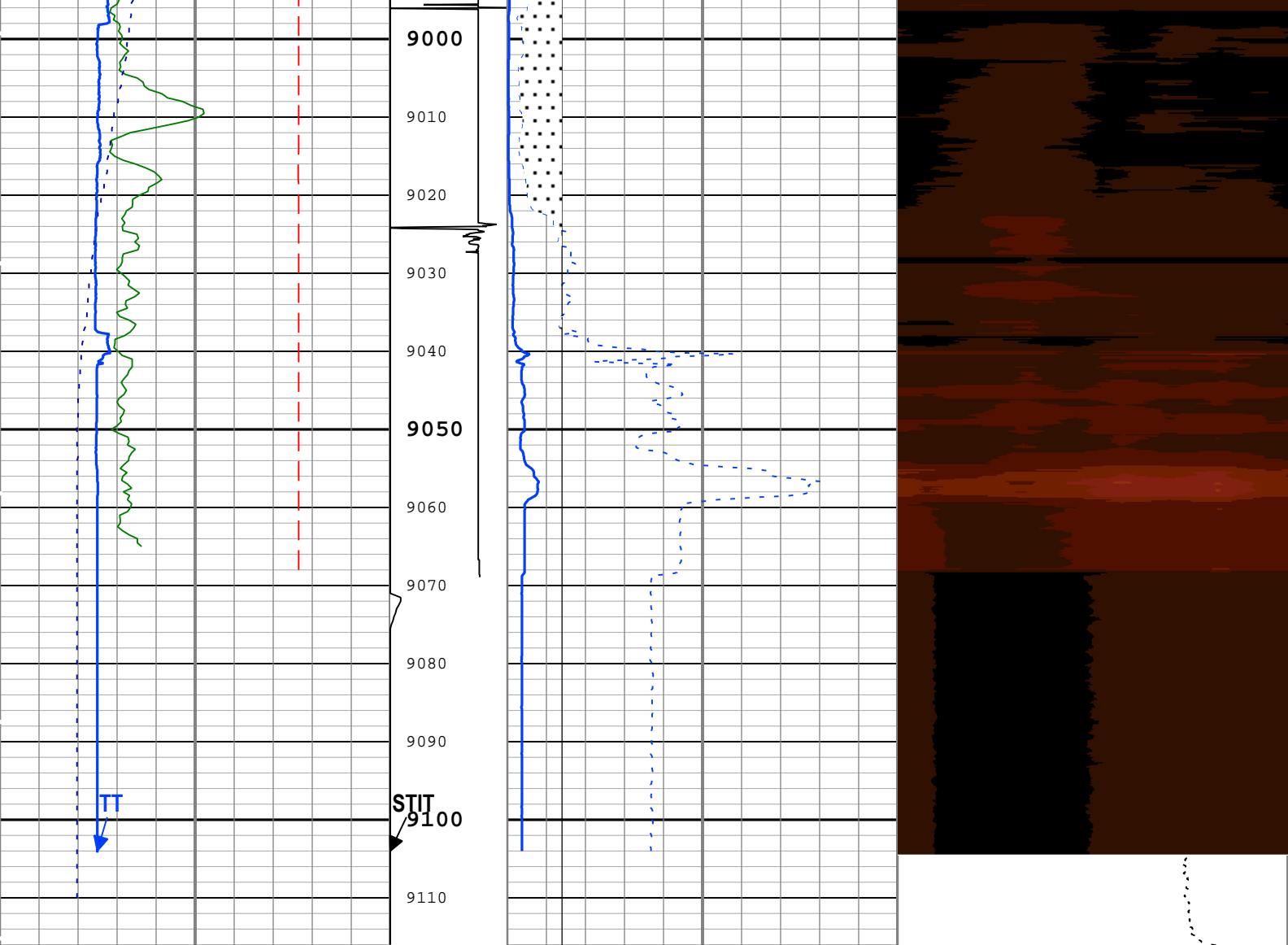
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	8594.82 ft	9116.27 ft	22-Jul-2015 1:51:49 PM	22-Jul-2015 2:09:57 PM	ON	0.00 ft	Yes
All depths are referenced to toolstring zero									

Log	Company:Caerus Piceance LLC				Well:Puckett 41B-2	
ONE: Log[4]:Up:S012						
Description: SCMT Amplitudes and MAP Image		Format: Log ( SCMT_Amp_Image_1 )		Index Scale: 5 in per 100 ft		Index Unit: ft
Depth		Creation Date: 06-Aug-2015 08:25:20		Index Type: Measured		
TIME_1900 - Time Marked every 60.00 (s)						

CCL  
Discriminated  
Amplitude  
(CCLD)







Gamma Ray (GR) PSTP-A			CCL Discriminated Amplitude (CCLD) PSTP-A  3 V -1  Stuck Tool Indicator, Total (STIT)  0 ft 50	CBL Amplitude (CBL) SCMT-CB		Cable Tension (TENS)												
0	gAPI 150			0	mV 10		10000 lbf 0											
Relative Bearing (RB_SCMT) SCMT-CB				CBL Amplitude (CBL) SCMT-CB		<div>Absent 5,000 12,500 20,000 27,500 35,000 42,500 50,000 57,500 65,000 72,500 80,000 87,500 95,000 102,500</div> <p>CBL Amplitude Mapping Image (0 - 100) SCMT-CB</p>												
0	deg 360			0	mV 100													
Transit Time for CBL (TT) SCMT-CB				Good Bond (GOBO)														
200	us 400		0	mV 10														
Well Temperature (WTEP) PSTP-A			GoodBond From CBL to GOBO.															
0	degF 300																	
			Cable Drag															
			Tool_Tot. Drag															

TIME\_1900 - Time Marked every 60.00 (s)

Description: SCMT Amplitudes and MAP Image    Format: Log ( SCMT\_Amp\_Image\_1 )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured  
Depth    Creation Date: 06-Aug-2015 08:25:20

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	239	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	40	us

CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
CMCF	CBL Cement Type Compensation Factor	SCMT-CB	0.12	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	196	us/ft
FCF	CBL Fluid Compensation Factor	SCMT-CB	0.89	
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	7.87	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-CB	167	us
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	10.14	dB/ft
MCCF	MAP Cement Type Compensation Factor	SCMT-CB	0.25	
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	1.25	ft
MMSA	MAP Minimum Sonic Amplitude	SCMT-CB	3.98	mV
MSA	Minimum Sonic Amplitude	SCMT-CB	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	4.41	mV
RUN_SNUM	Run Sequence Number	WSDRUN	1	
ZCMT	Acoustic Impedance of Cement	SCMT-CB	3.4	Mrayl

## Tool Control Parameters

## ONE: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h

## Composite 1

## Software Version

Acquisition System	Version
Maxwell 2016	6.0.47569.3100

## Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[5]:Up	Up	3030.78 ft	9098.50 ft	22-Jul-2015 2:21:43 PM	22-Jul-2015 5:49:19 PM	ON	9.90 ft	Yes
ONE	Log[6]:Up	Up	2419.30 ft	3311.69 ft	22-Jul-2015 5:56:38 PM	22-Jul-2015 6:27:27 PM	ON	10.32 ft	Yes

All depths are referenced to toolstring zero

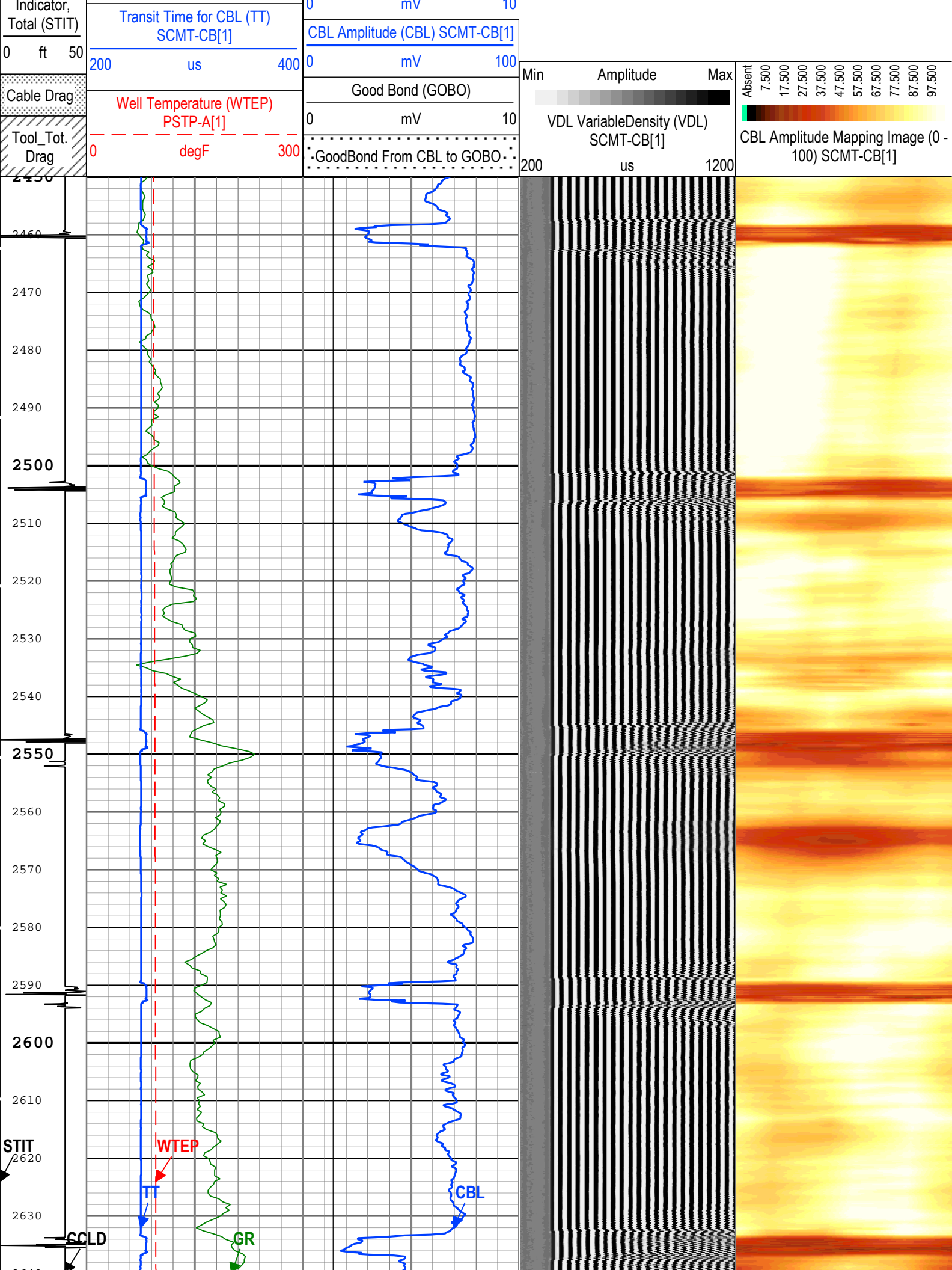
## Log

Company:Caerus Piceance LLC      Well:Puckett 41B-2  
Composite 1:S012

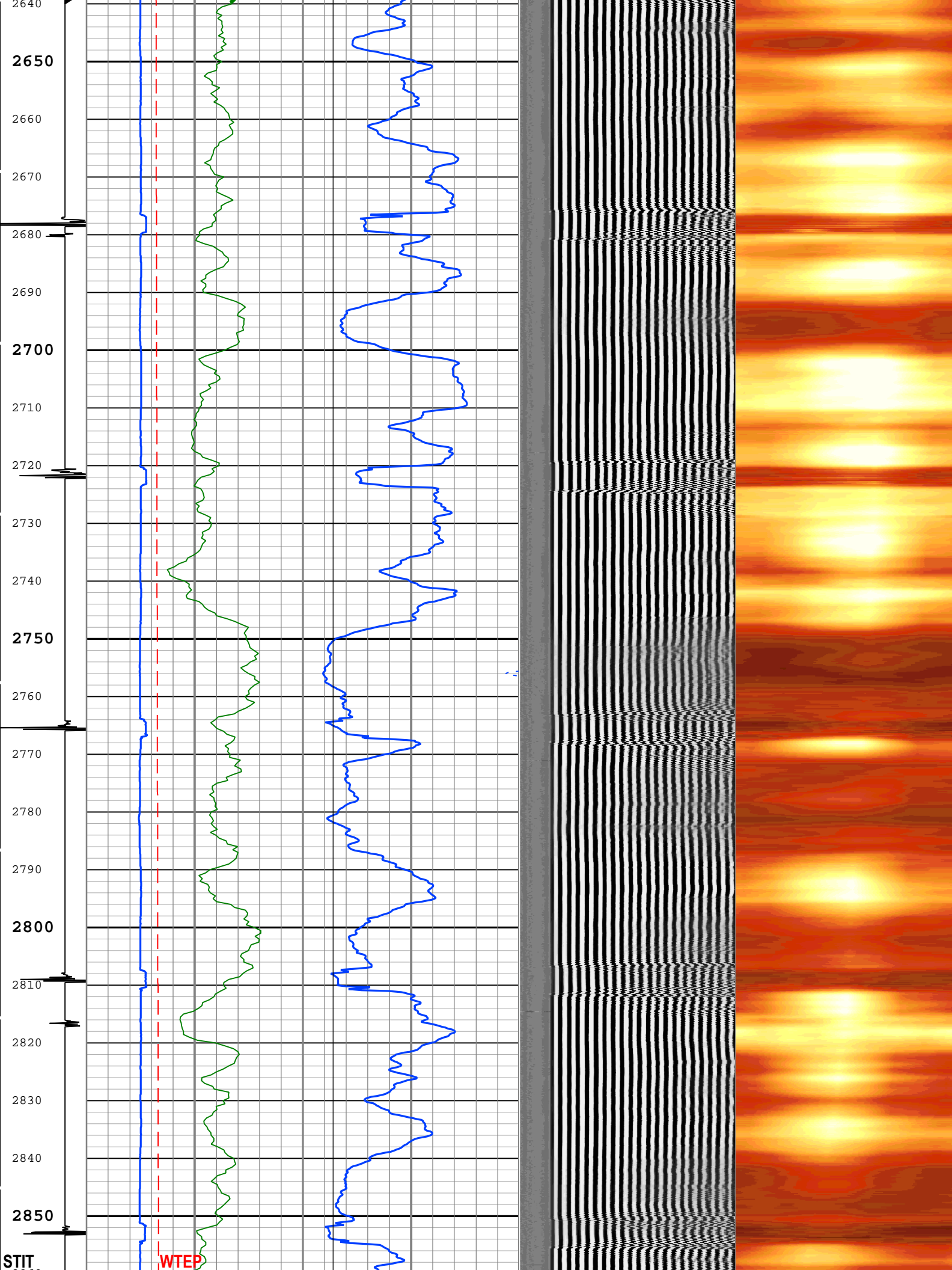
Description: SCMT VDL Image    Format: Log ( SCMT\_VDL\_Image\_1 )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 06-Aug-2015 08:25:22

TIME\_1900 - Time Marked every 60.00 (s)

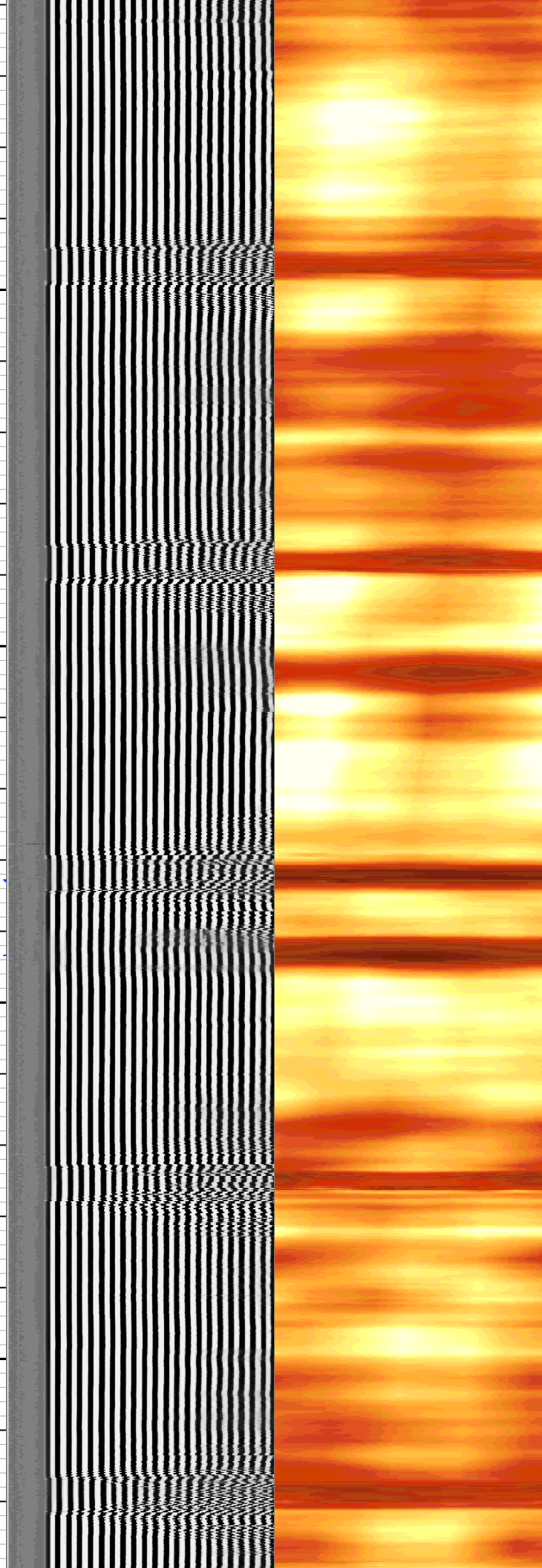
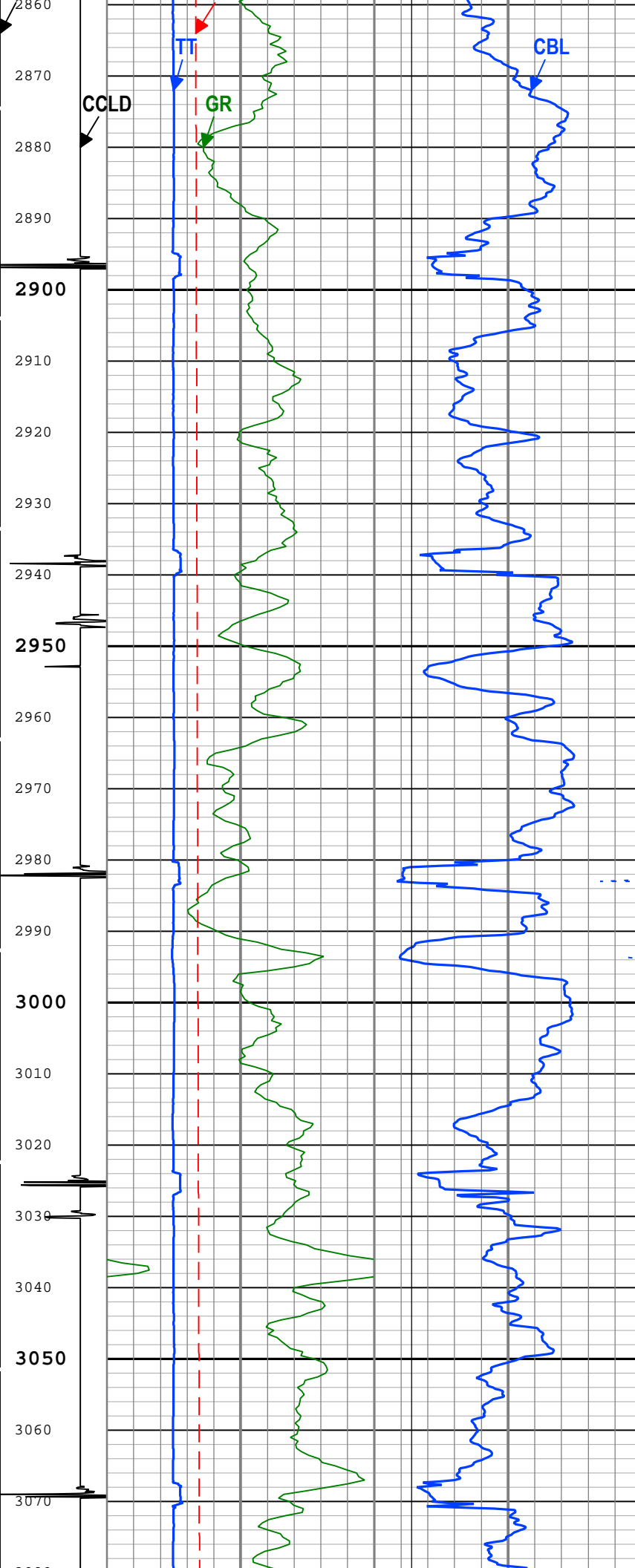
CCL Discriminated Amplitude (CCLD) PSTP-A[1]			
3 V -1	Gamma Ray (GR) PSTP-A[1]		
Stuck Tool	0 gAPI 150	CBL Amplitude (CBL) SCMT-CB[1]	

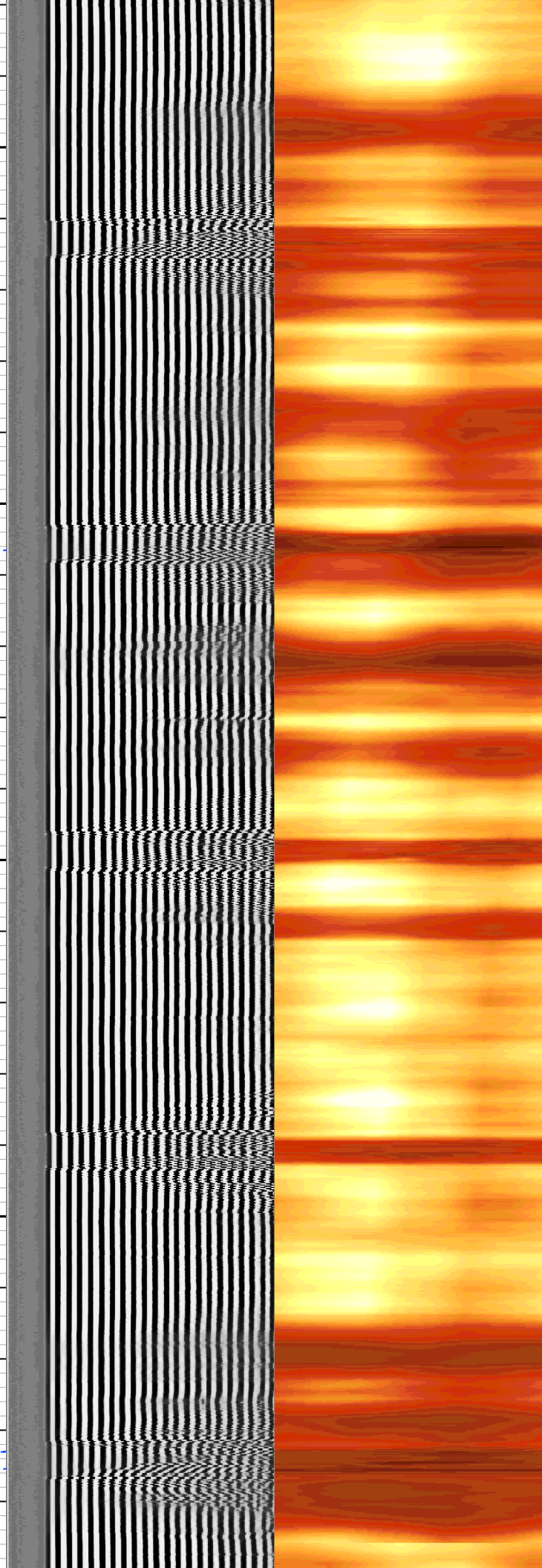
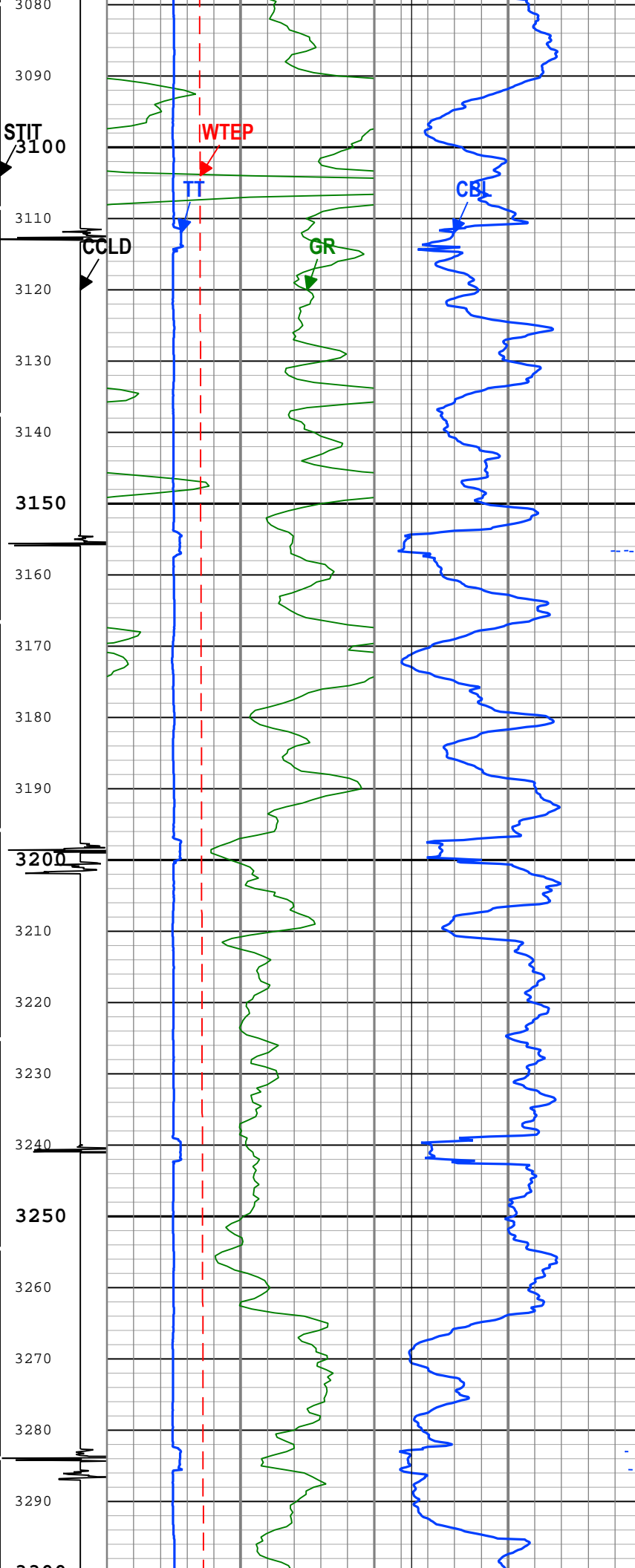


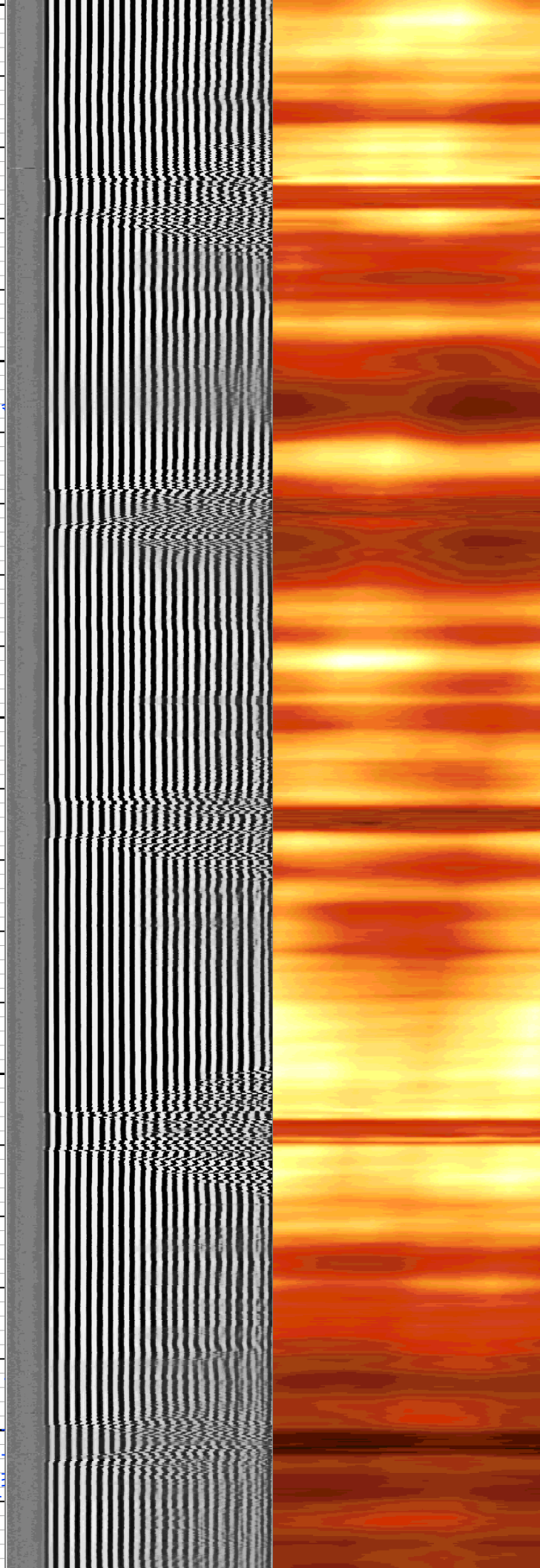
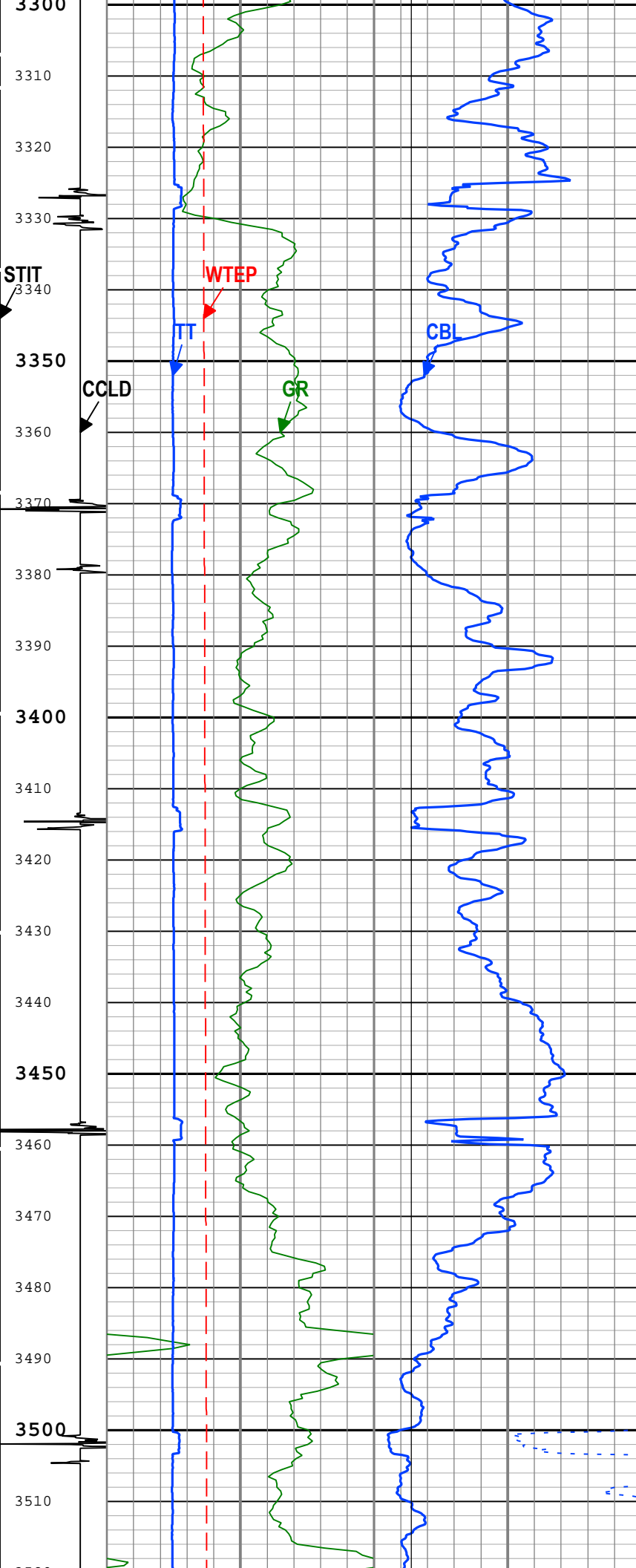




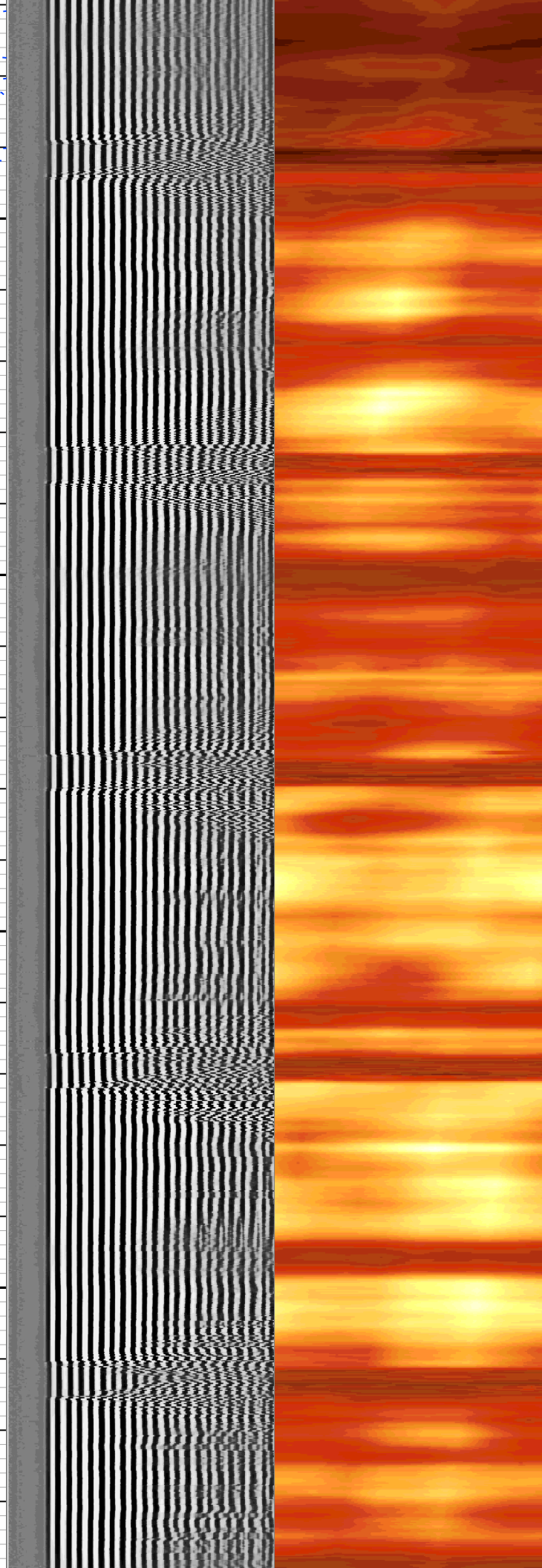
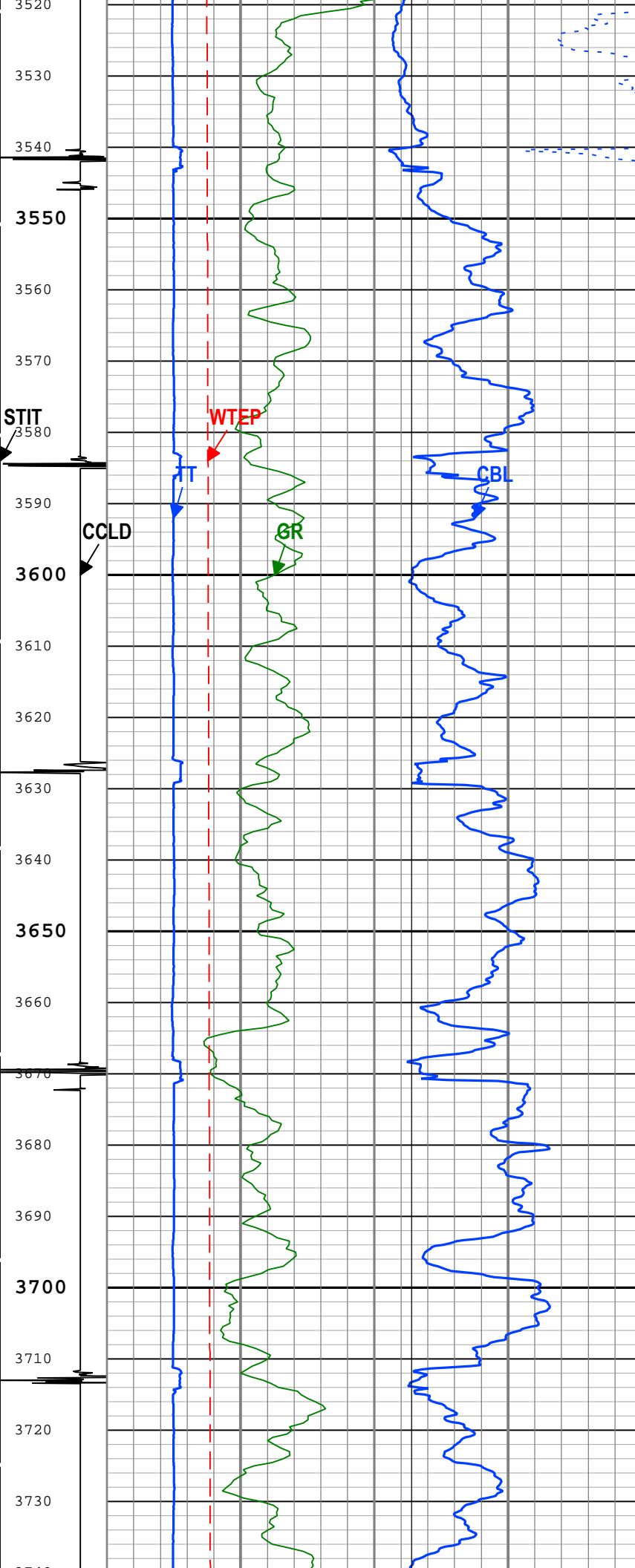


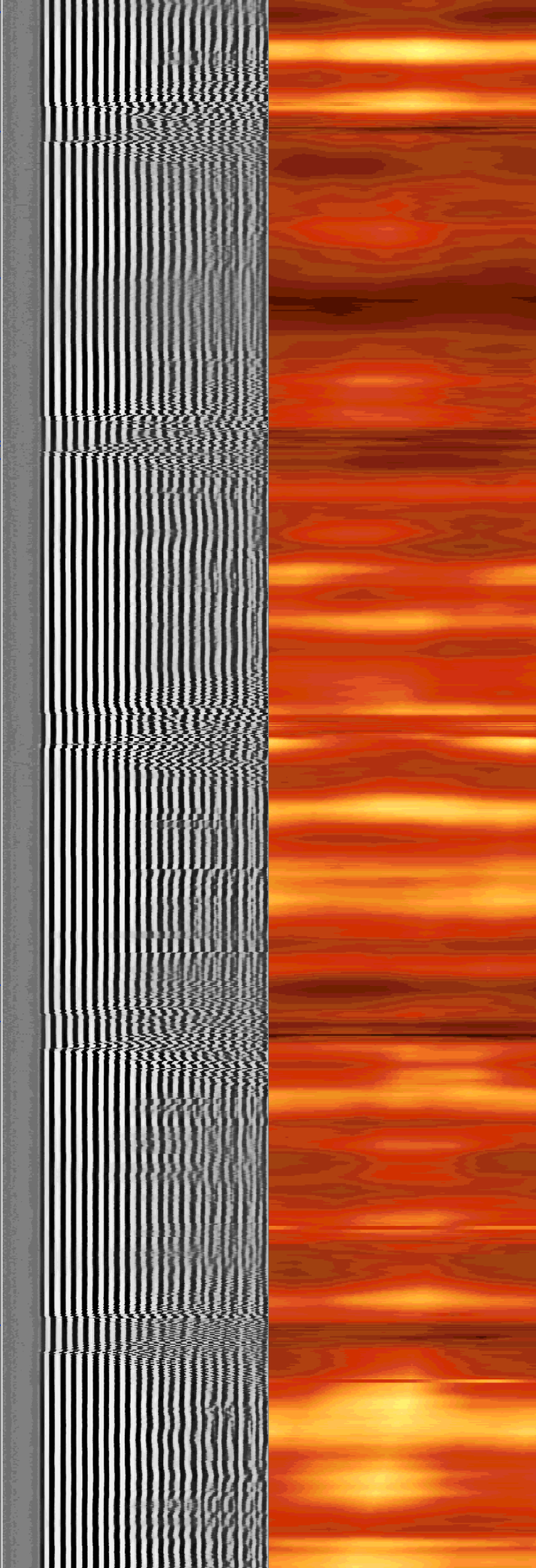
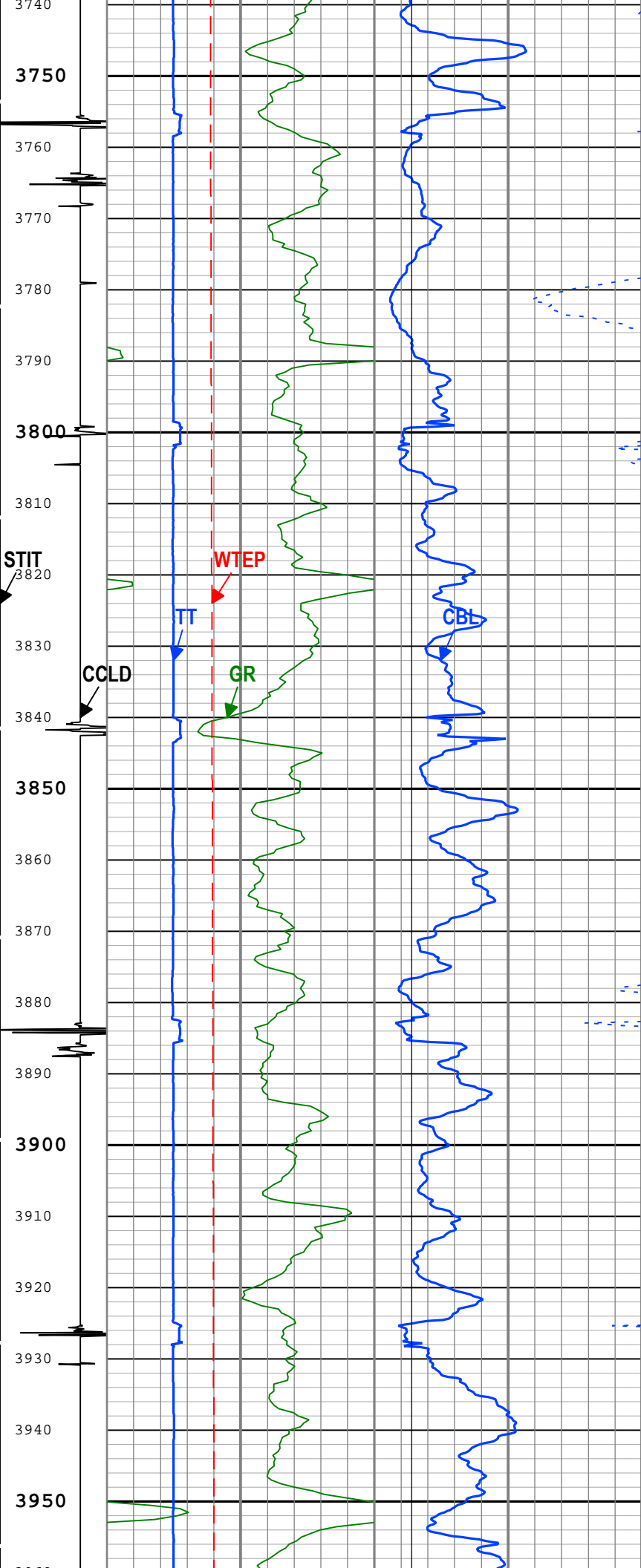


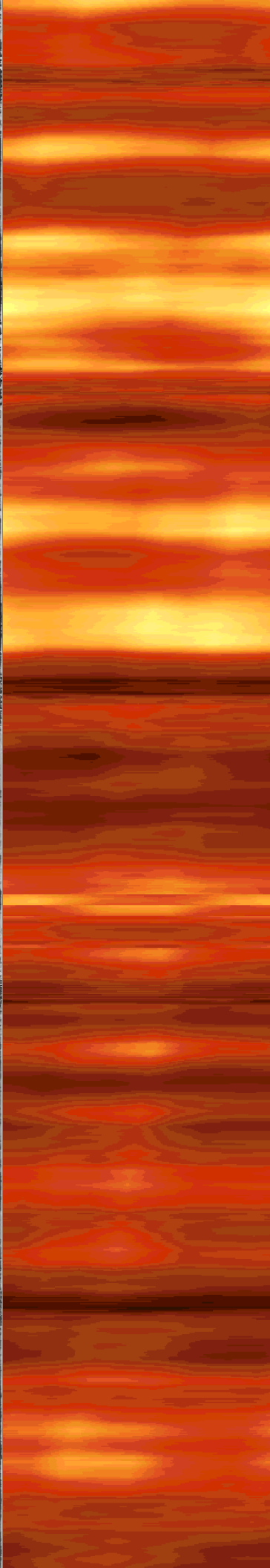
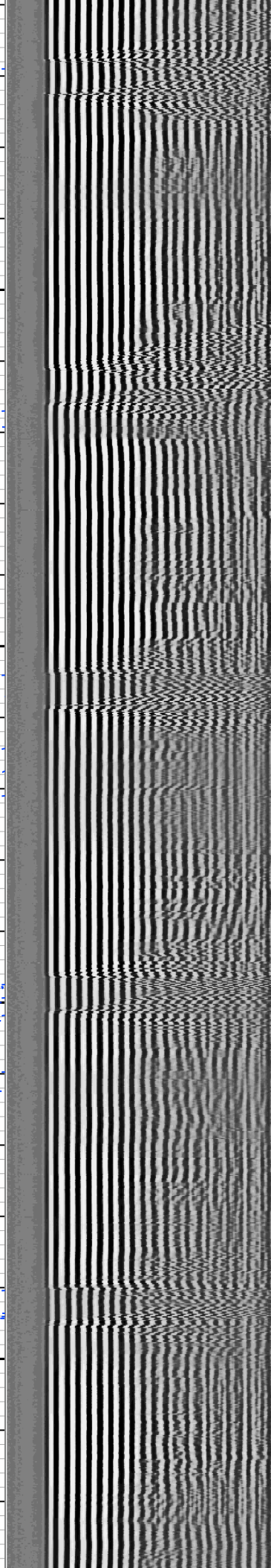
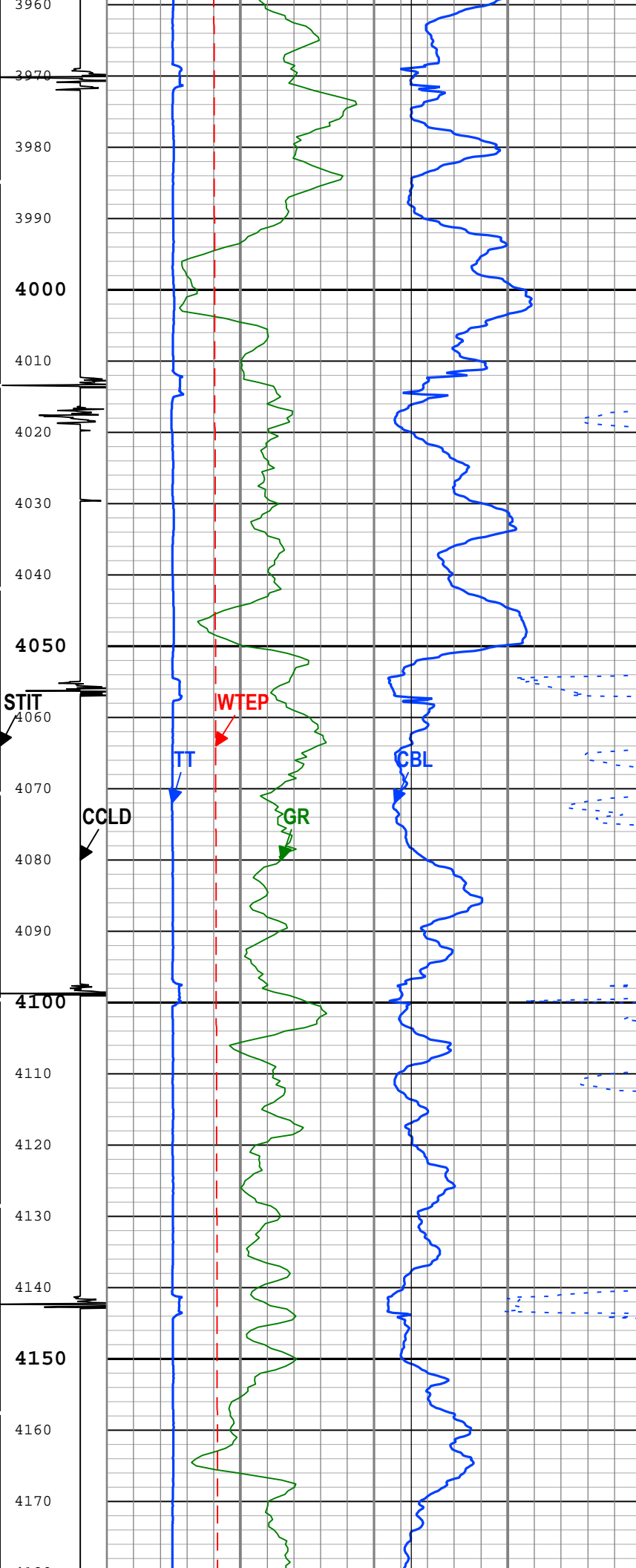




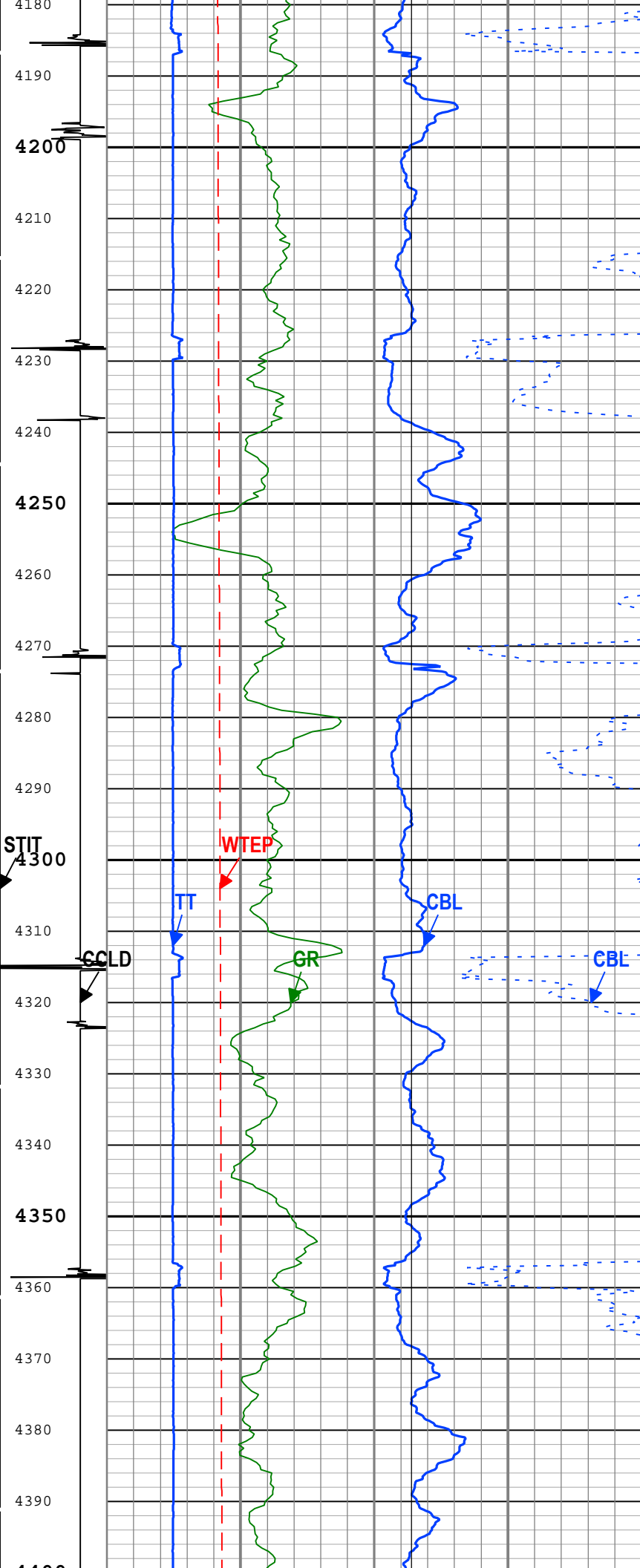


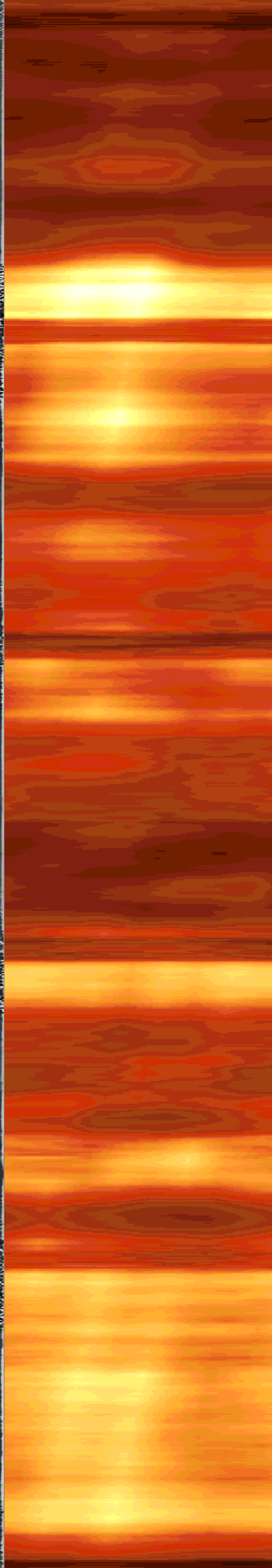
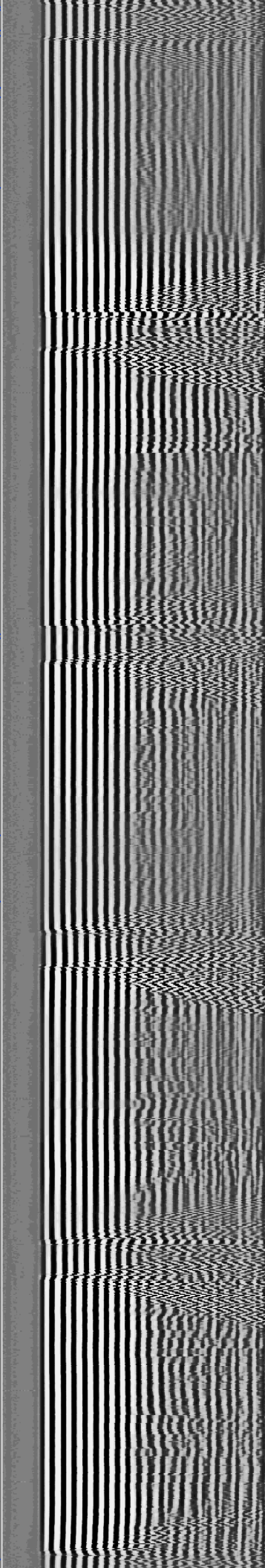
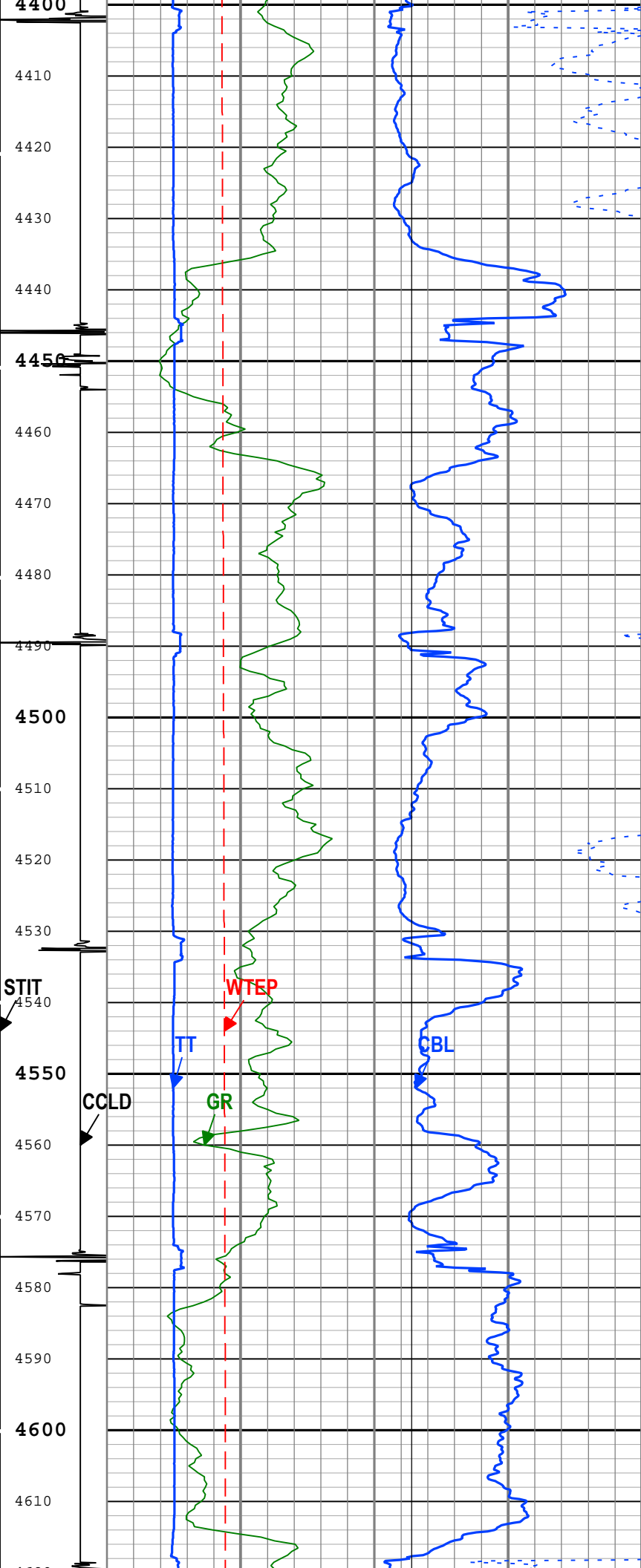




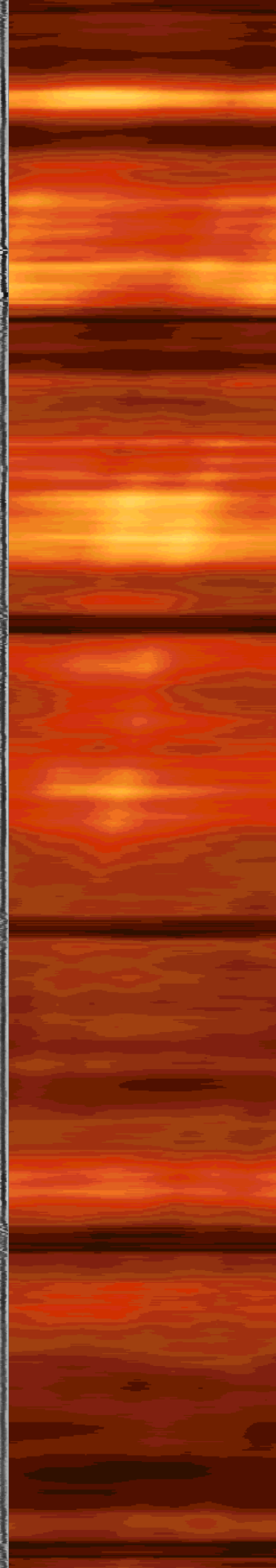
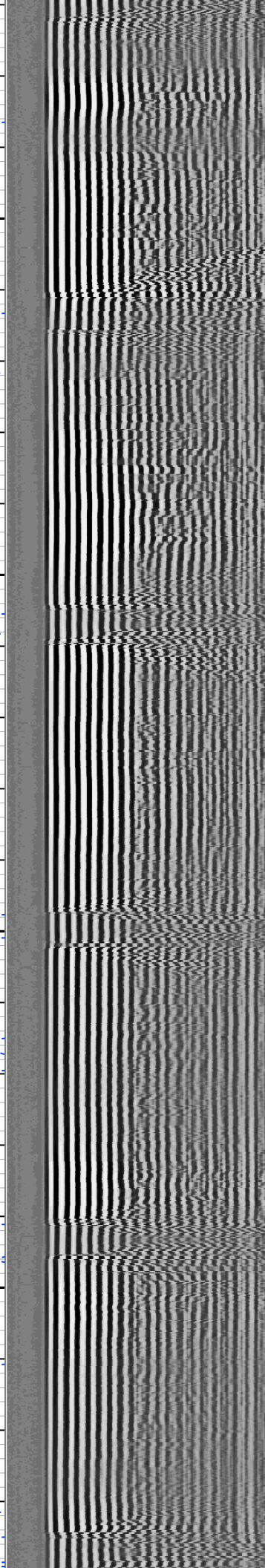
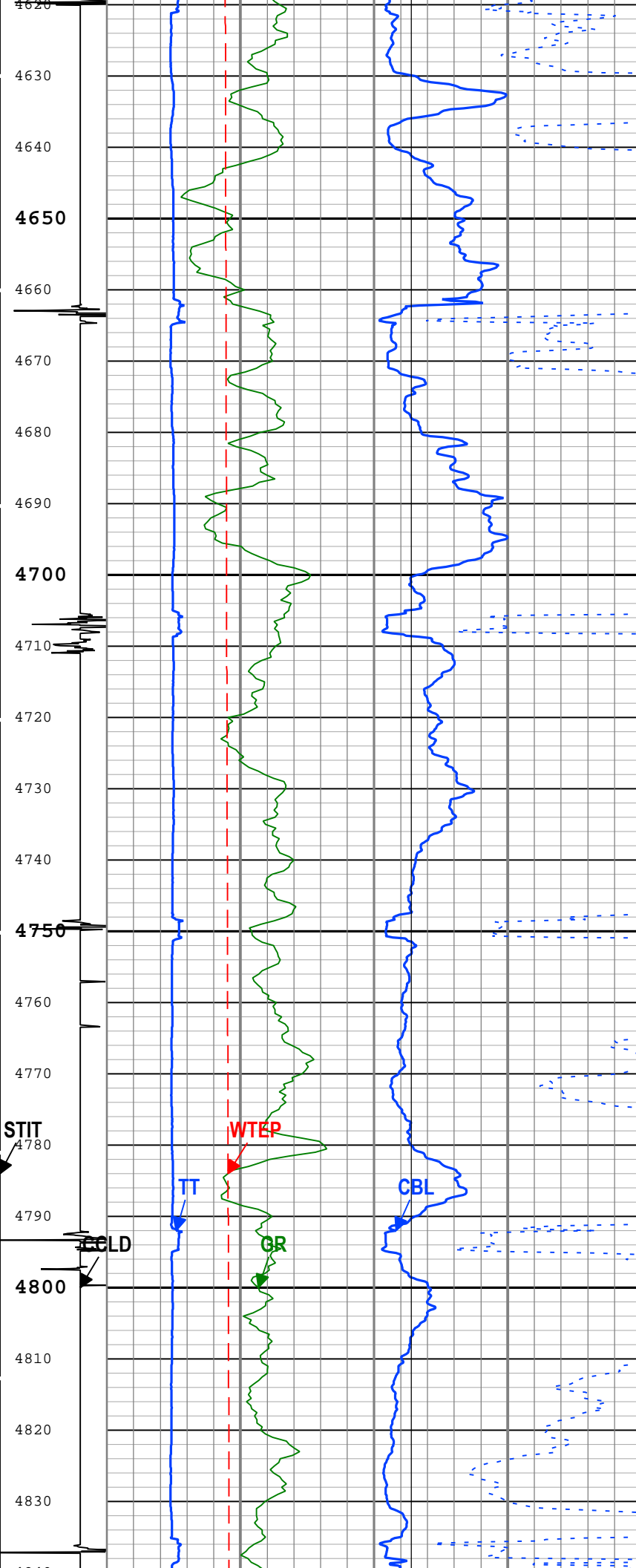


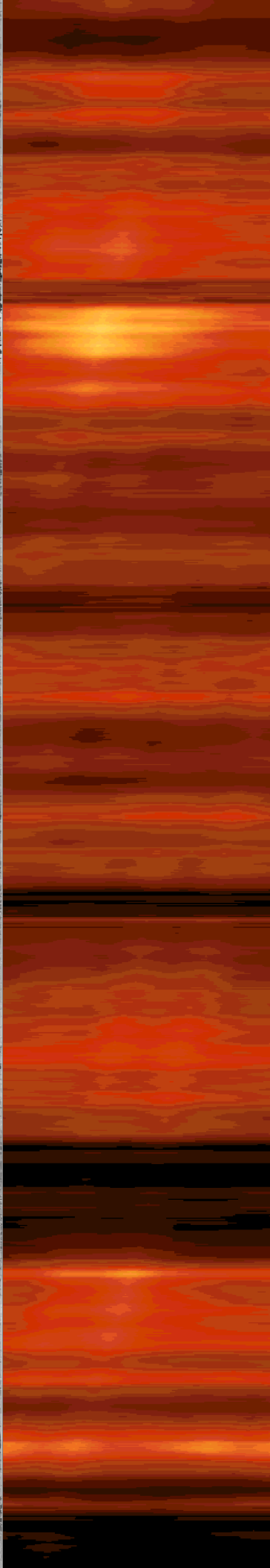
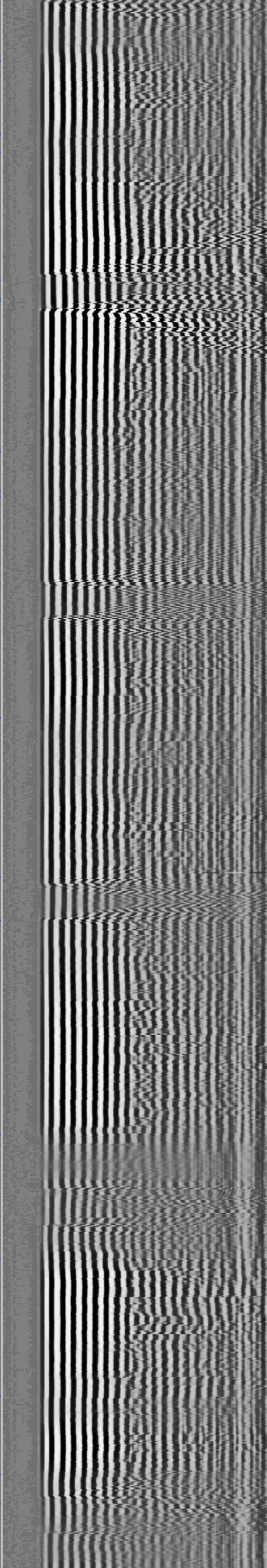
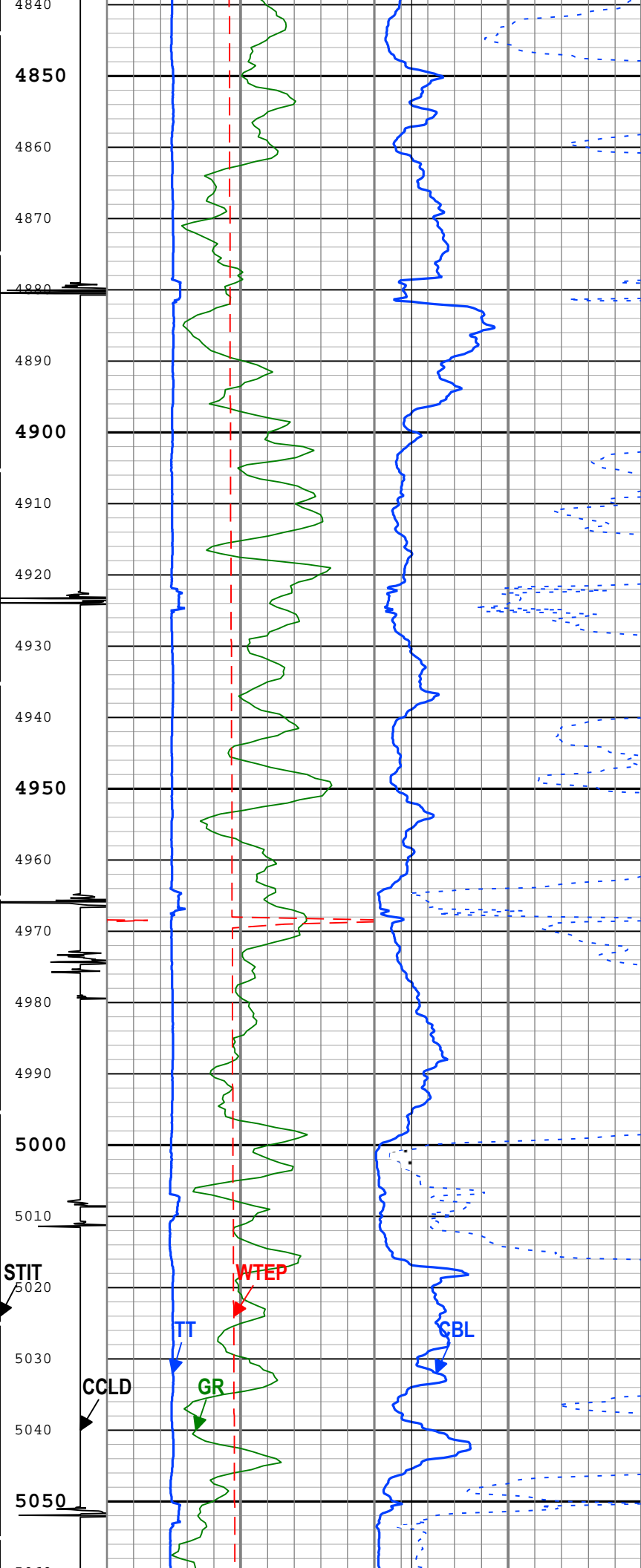


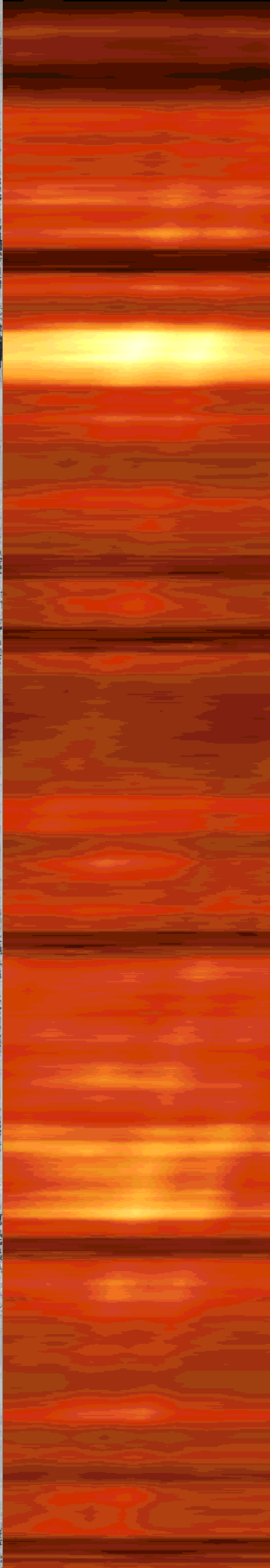
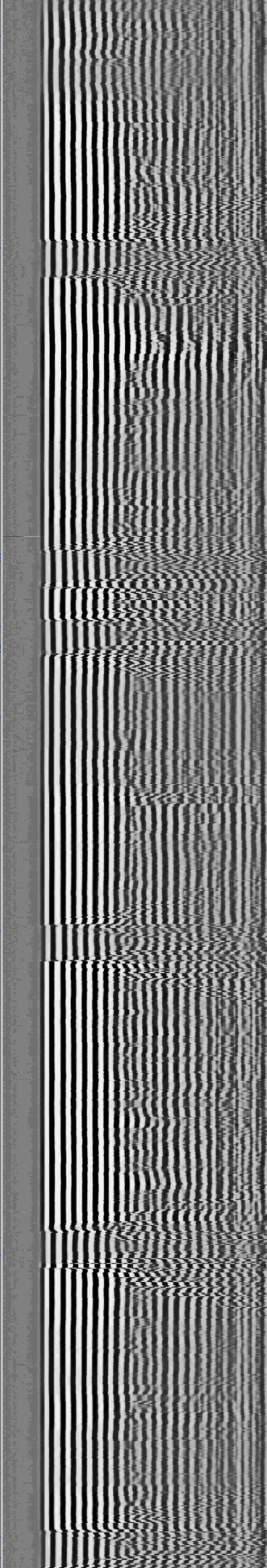
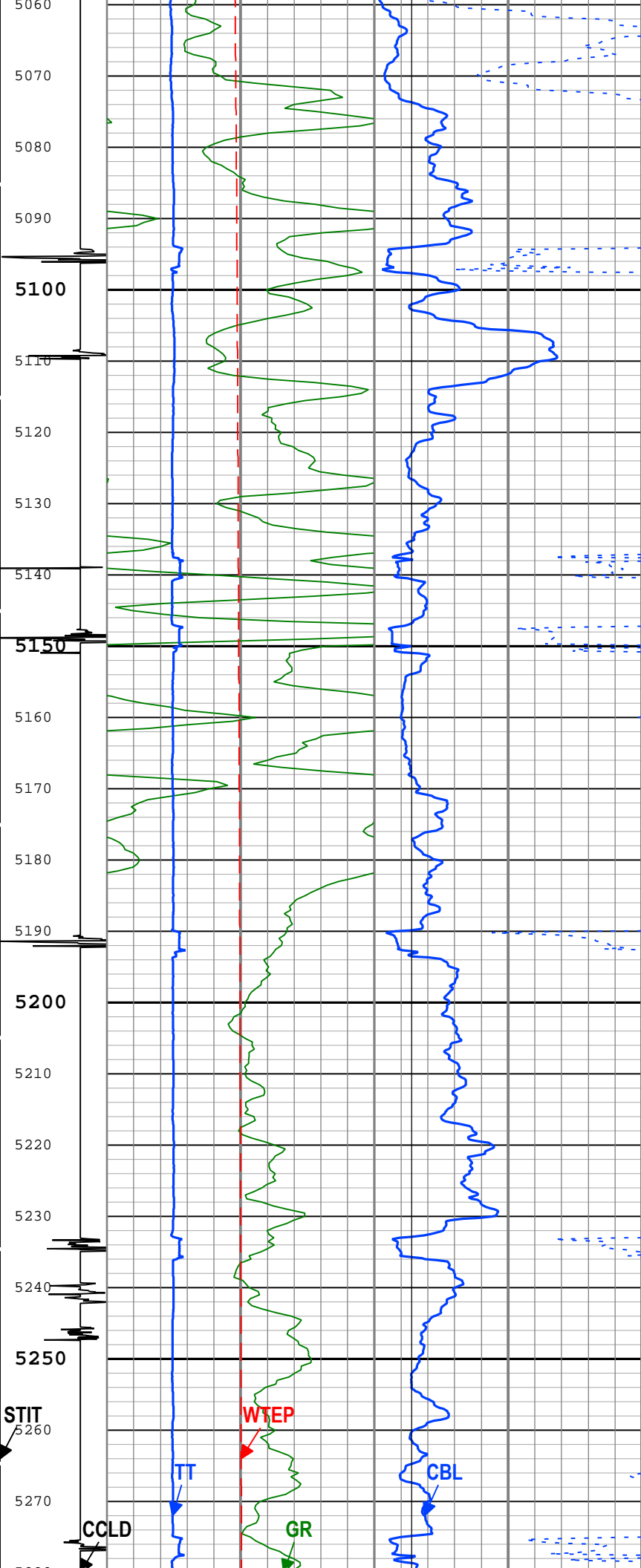




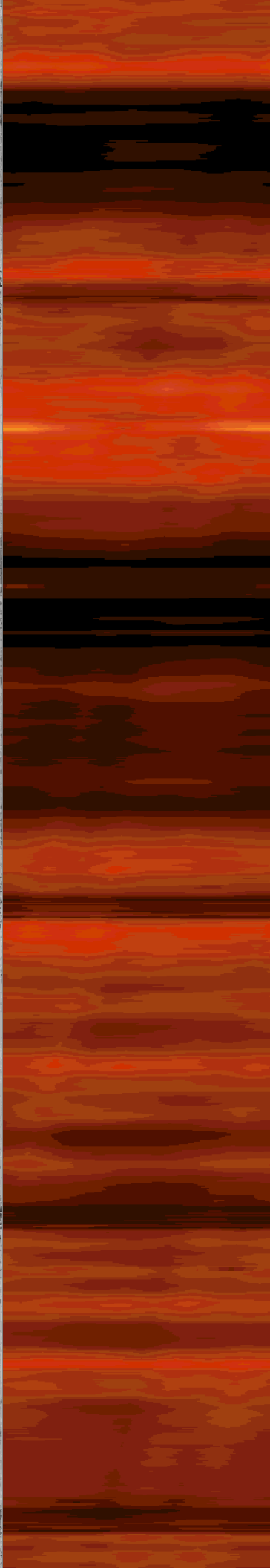
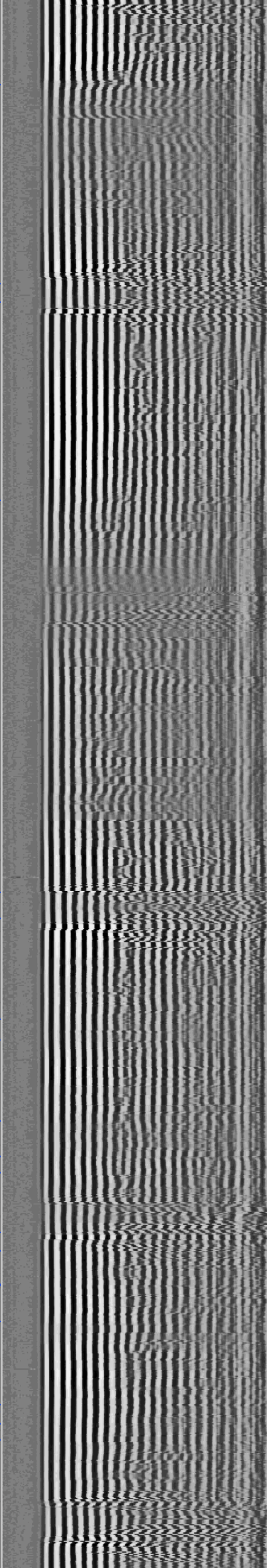
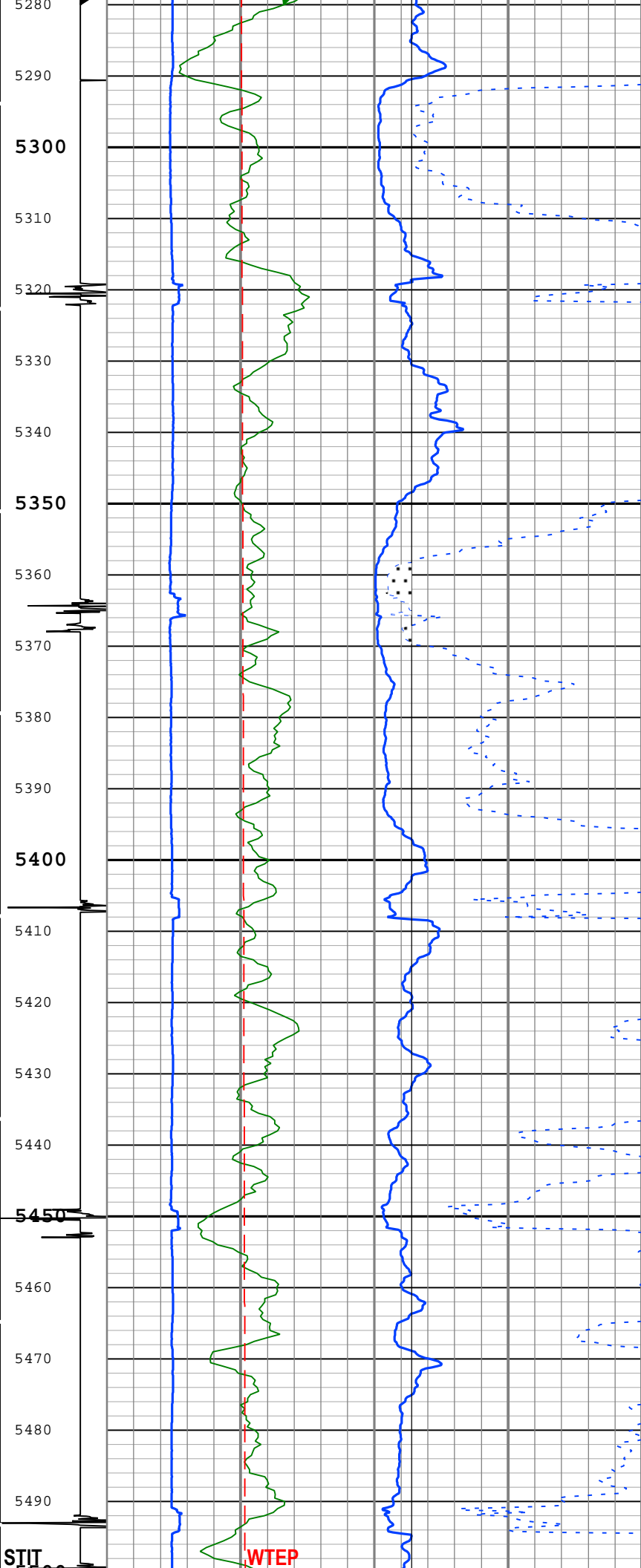


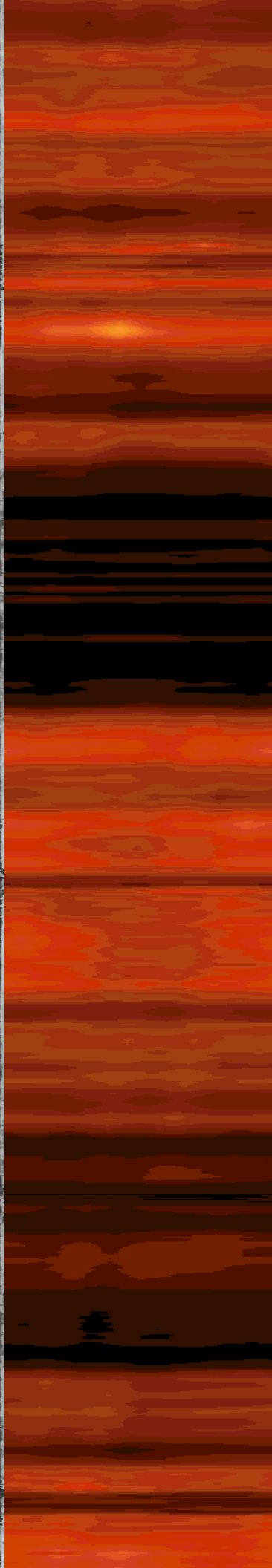
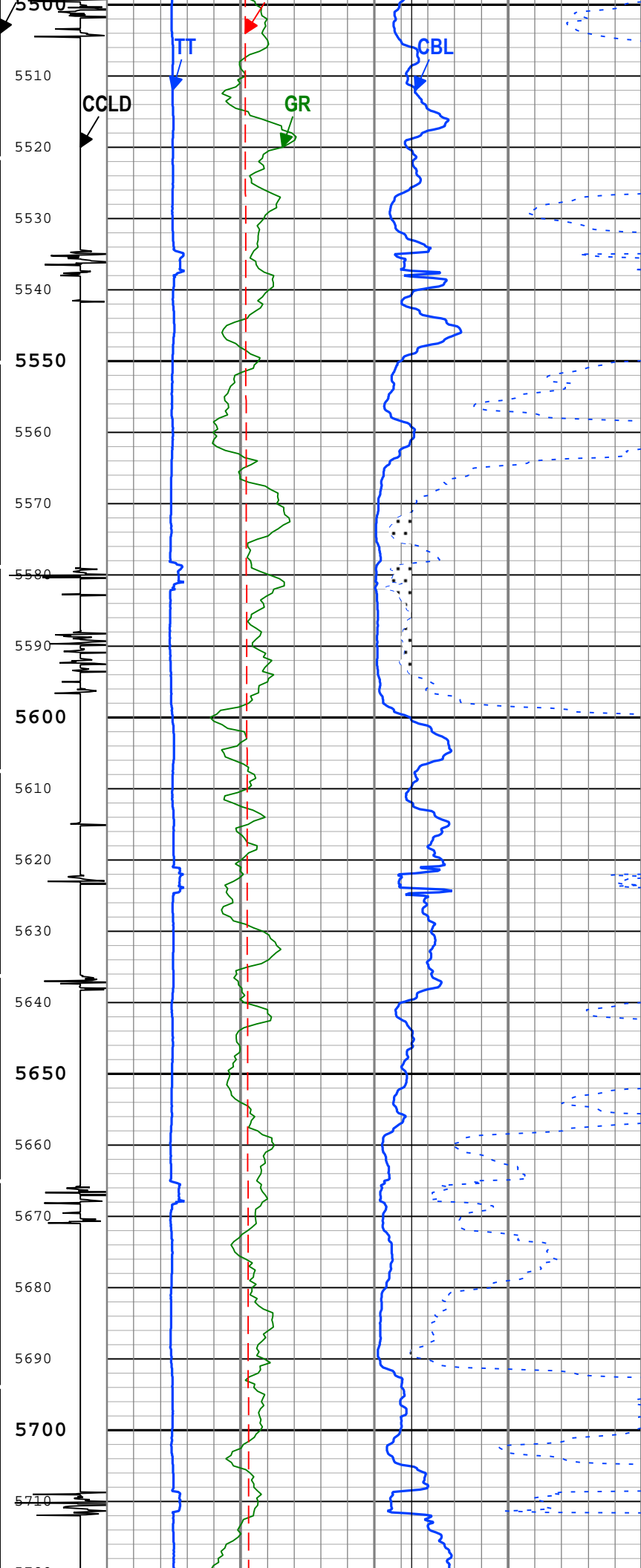


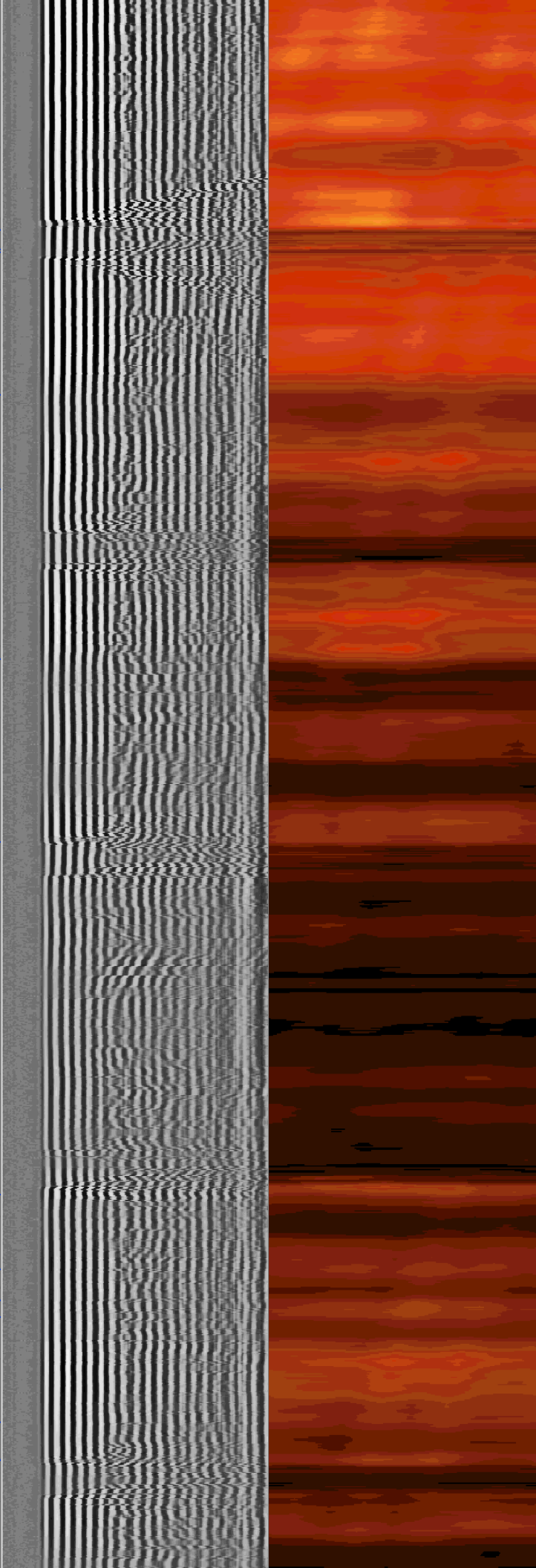
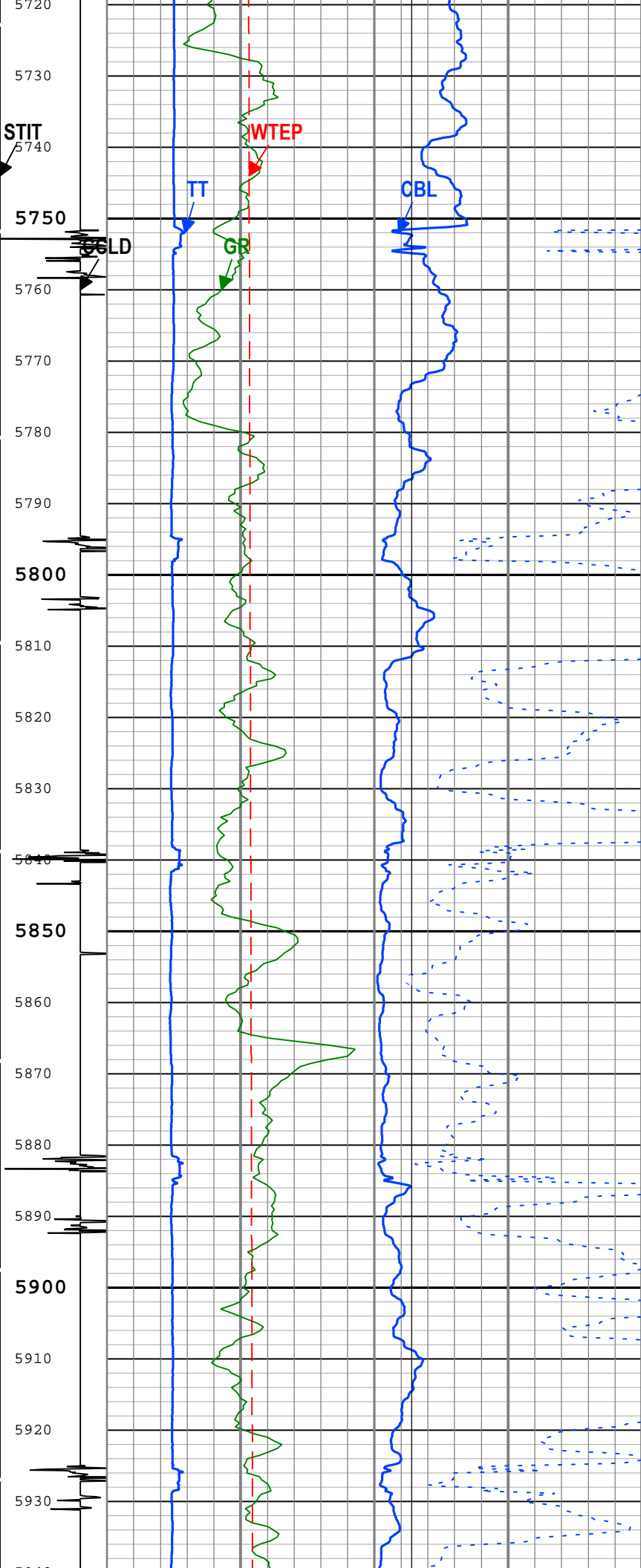




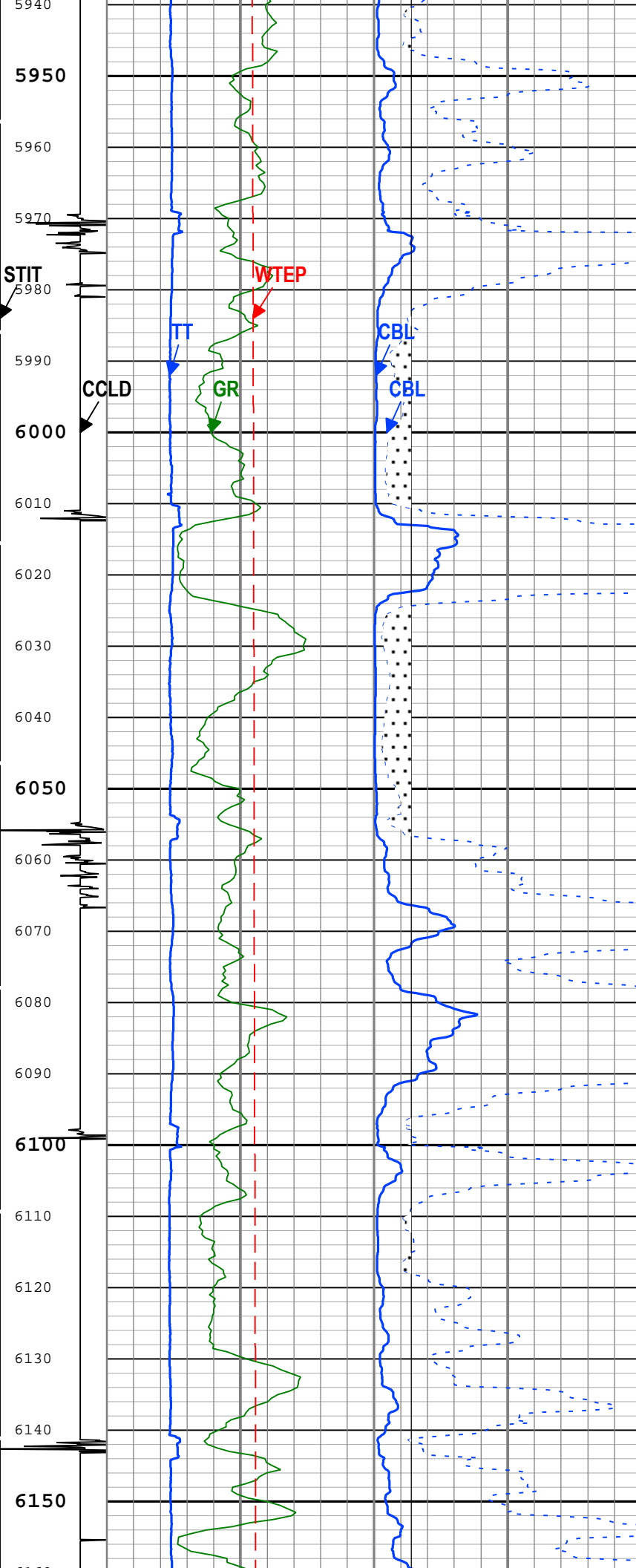


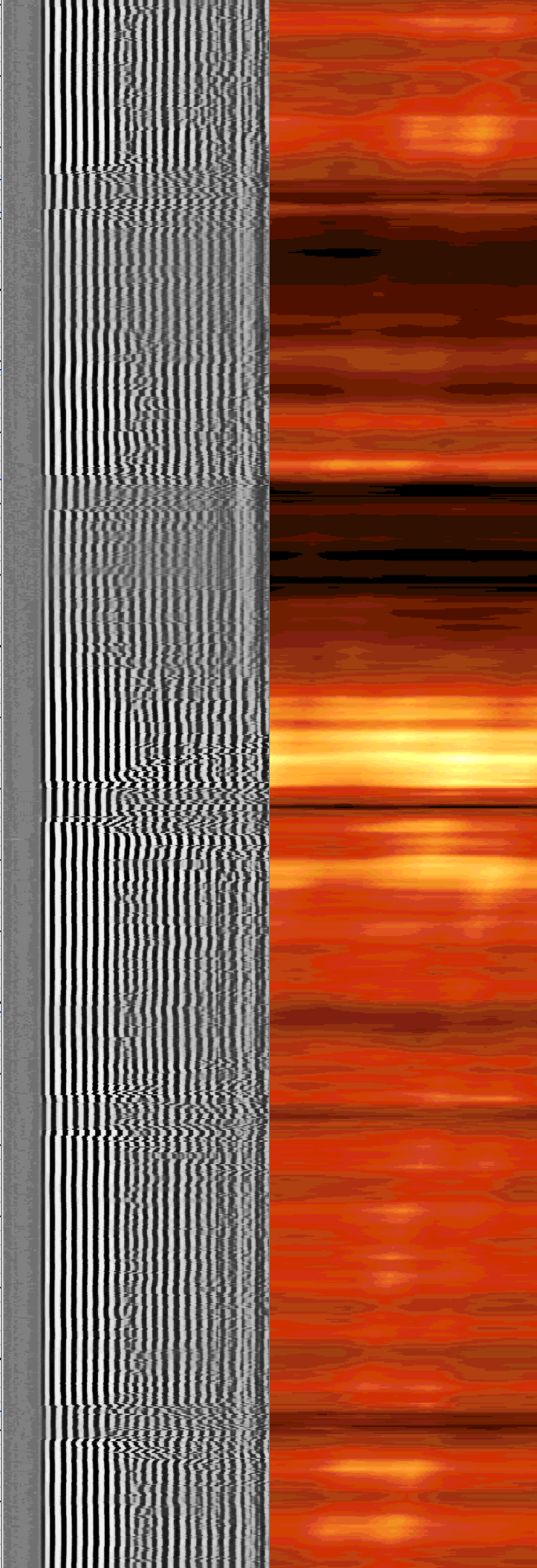
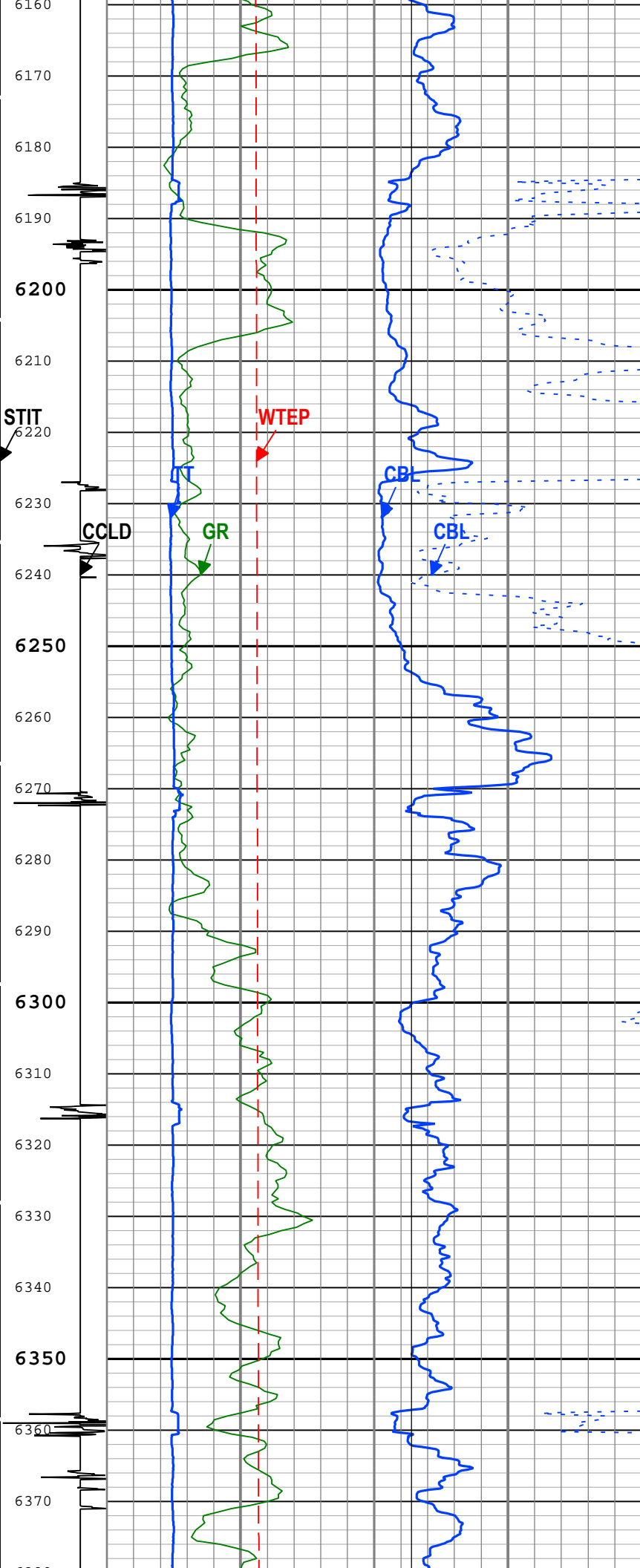




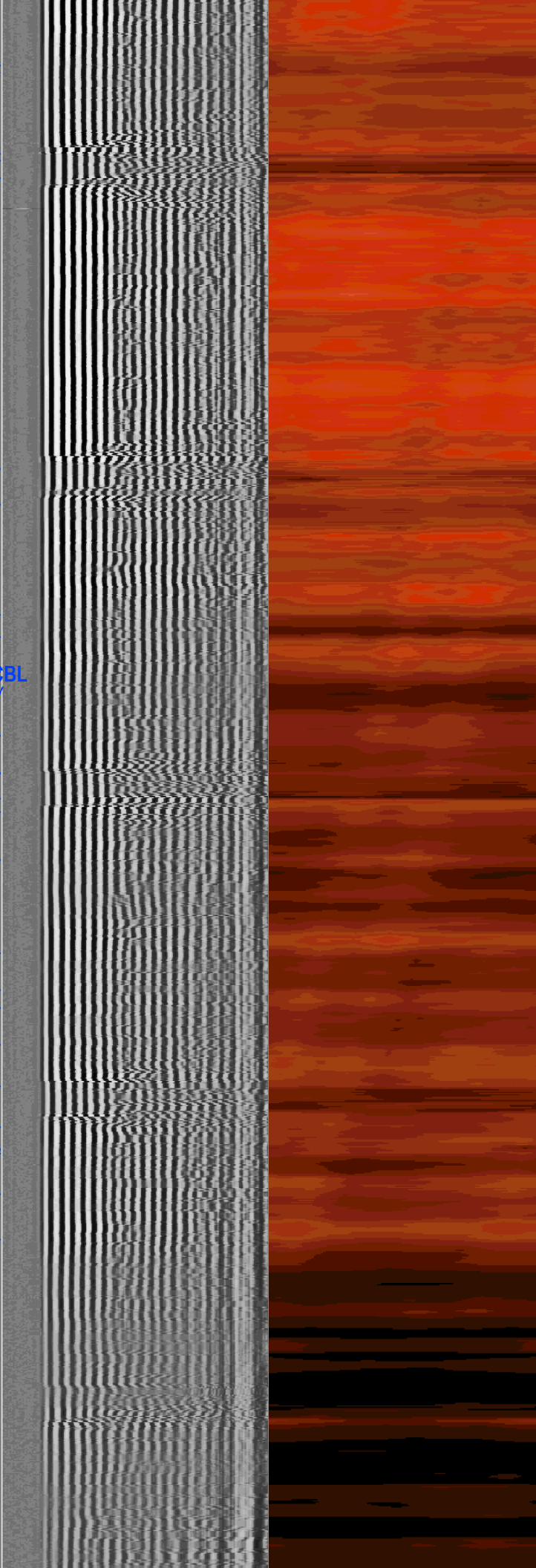
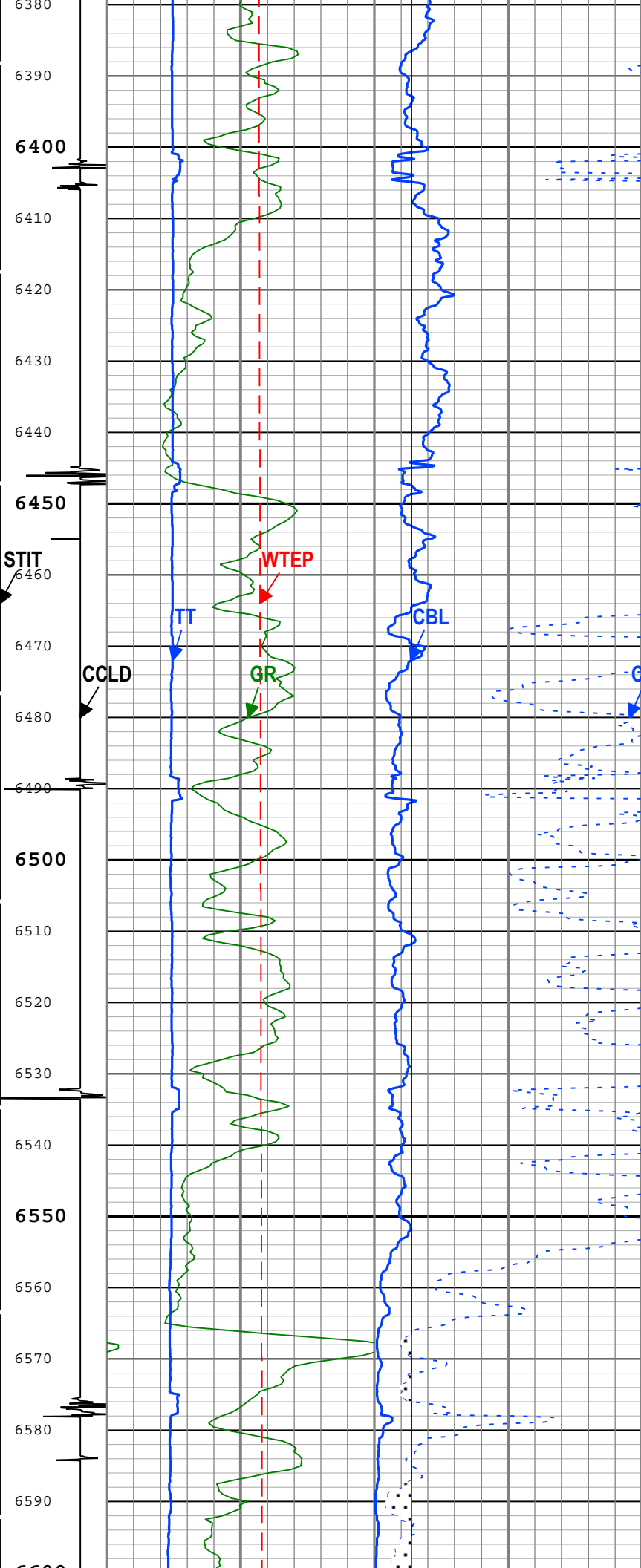


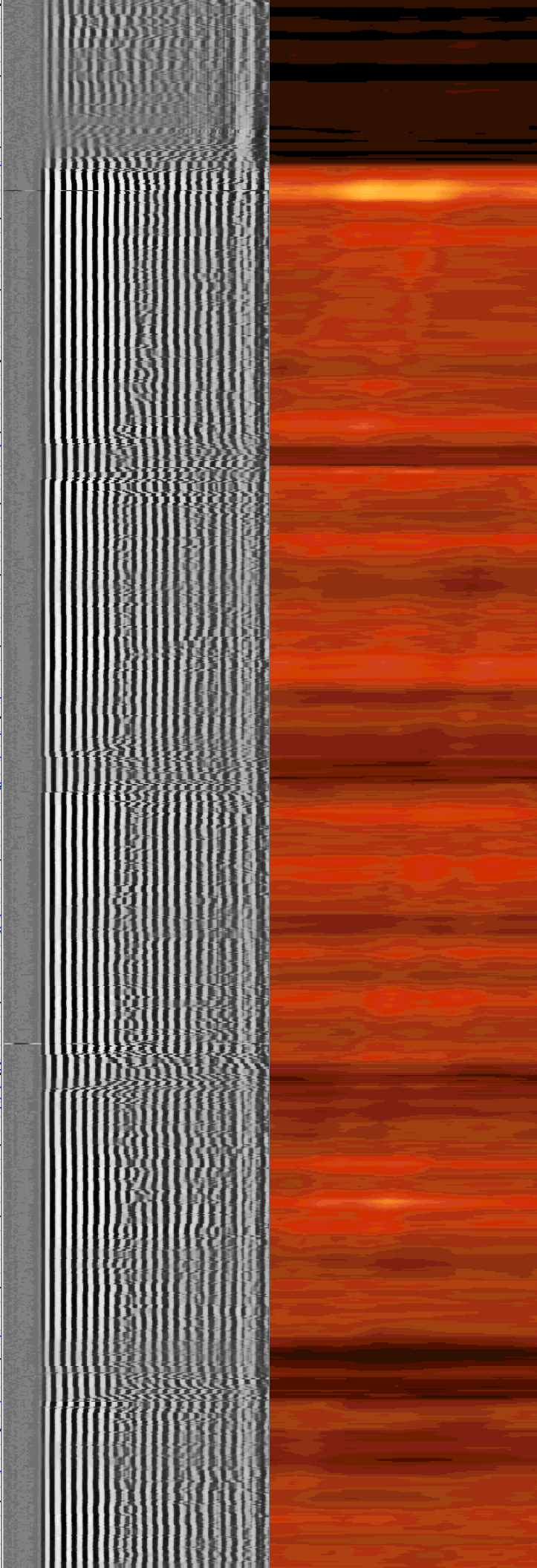
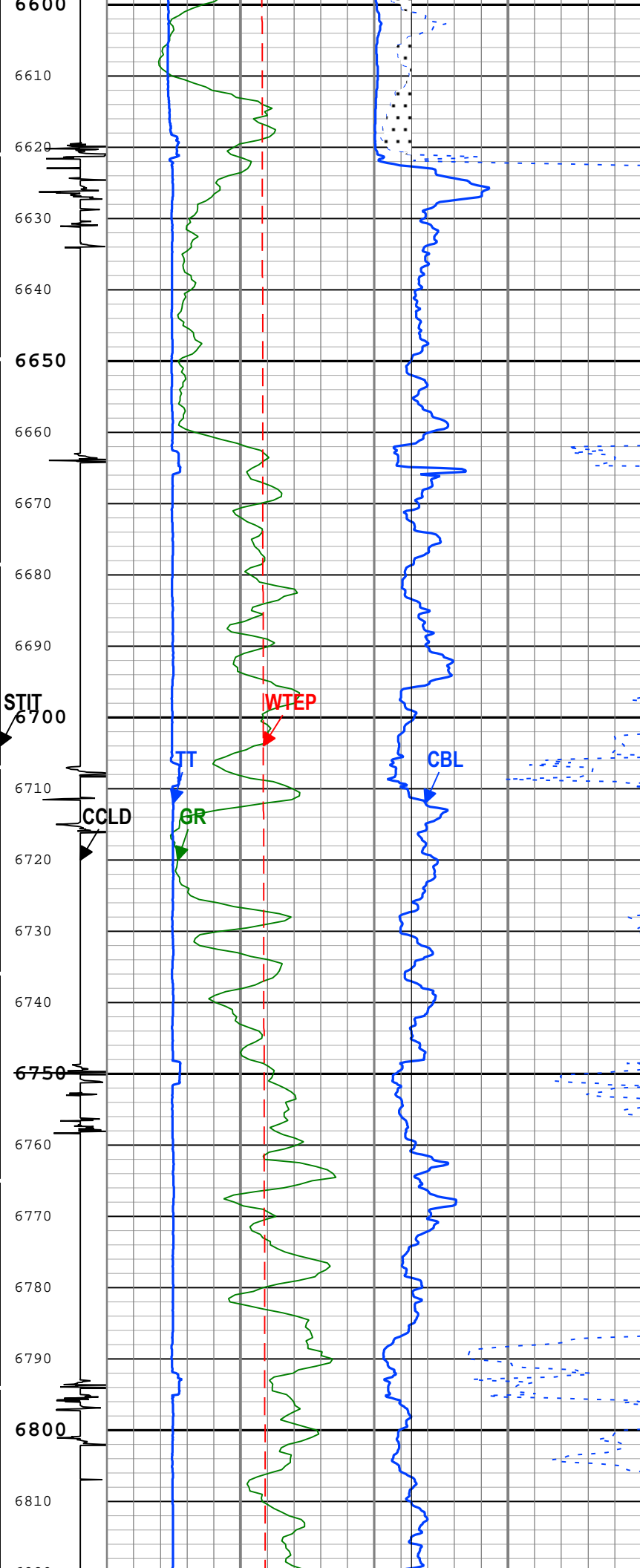


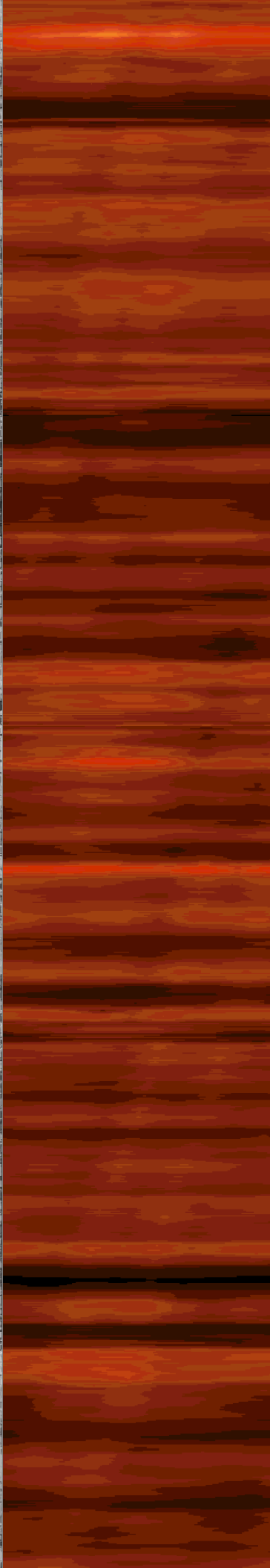
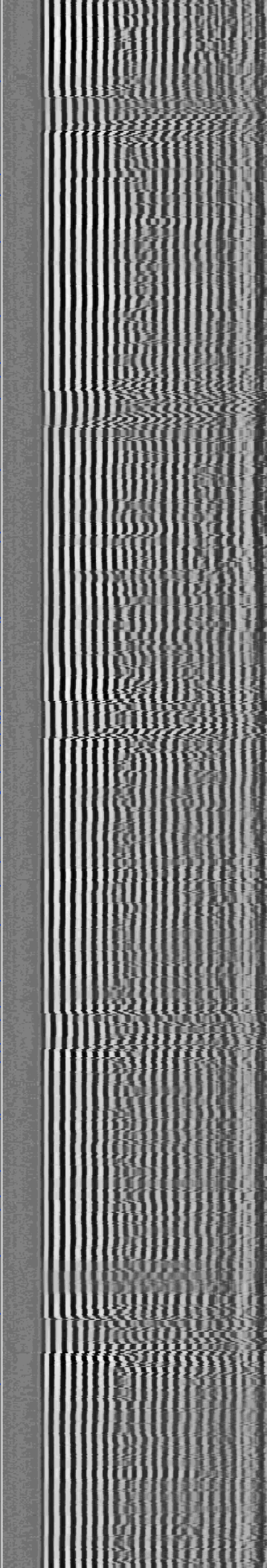
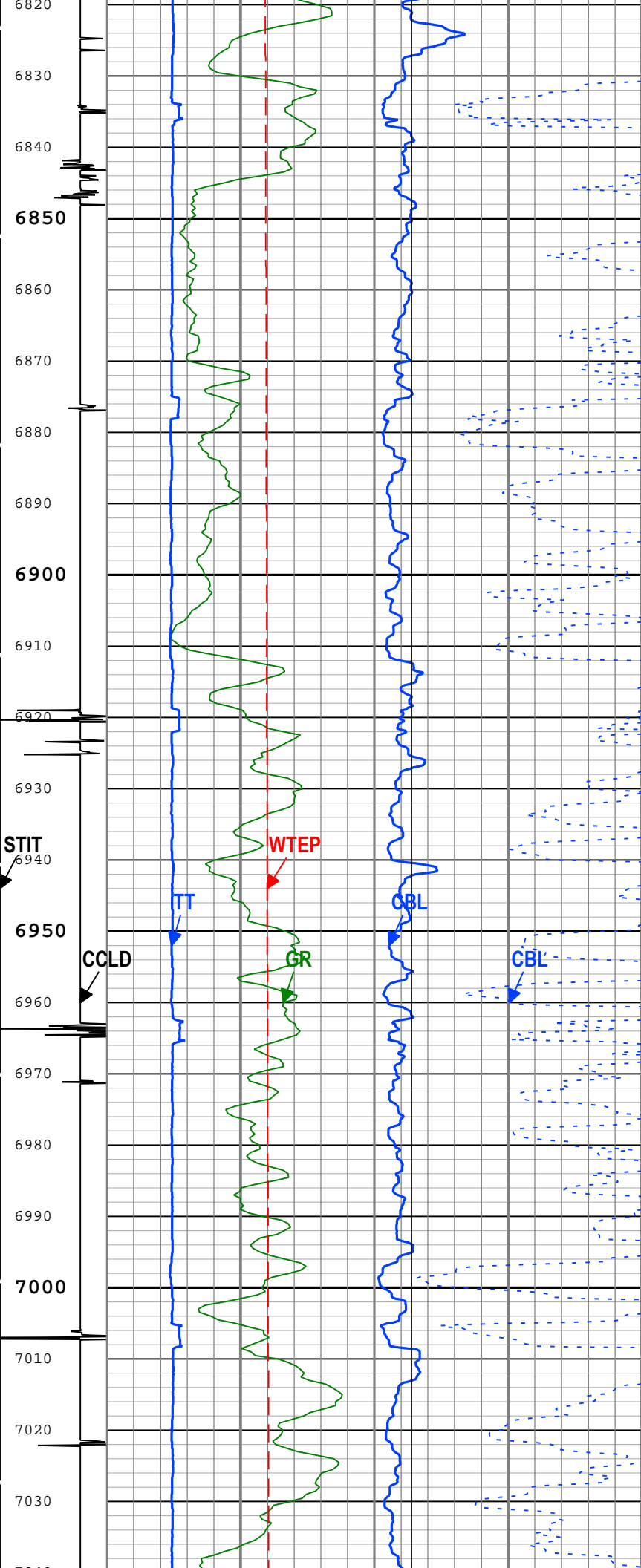




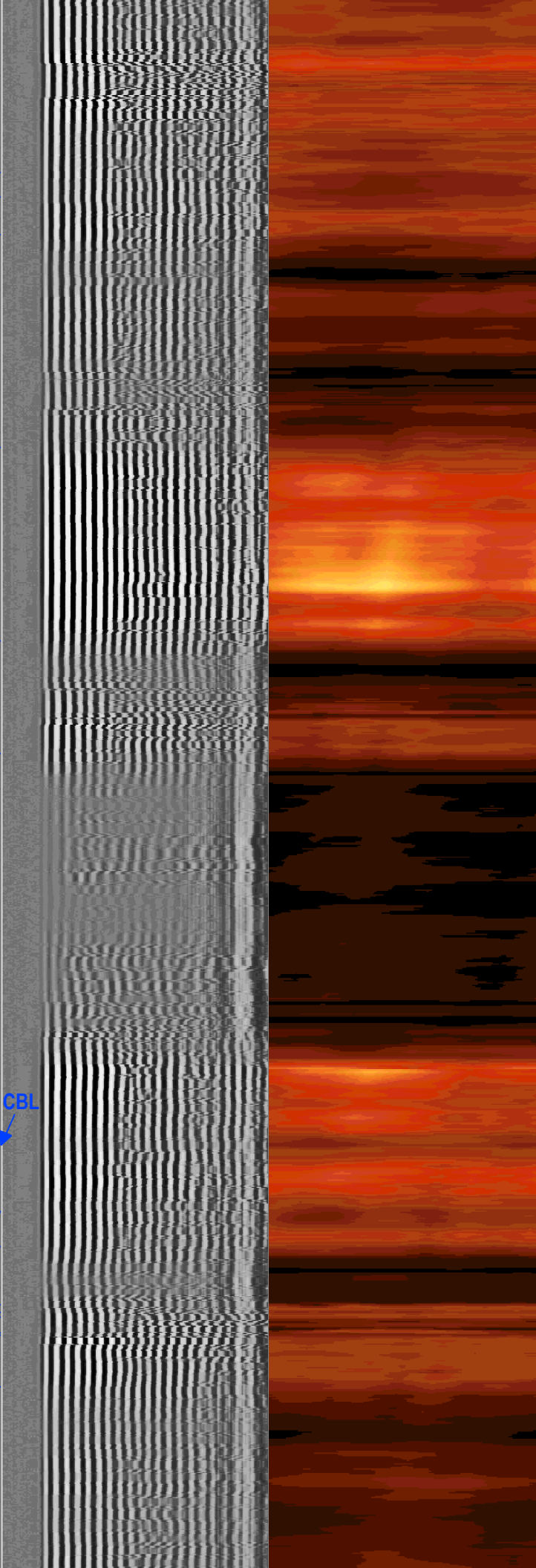
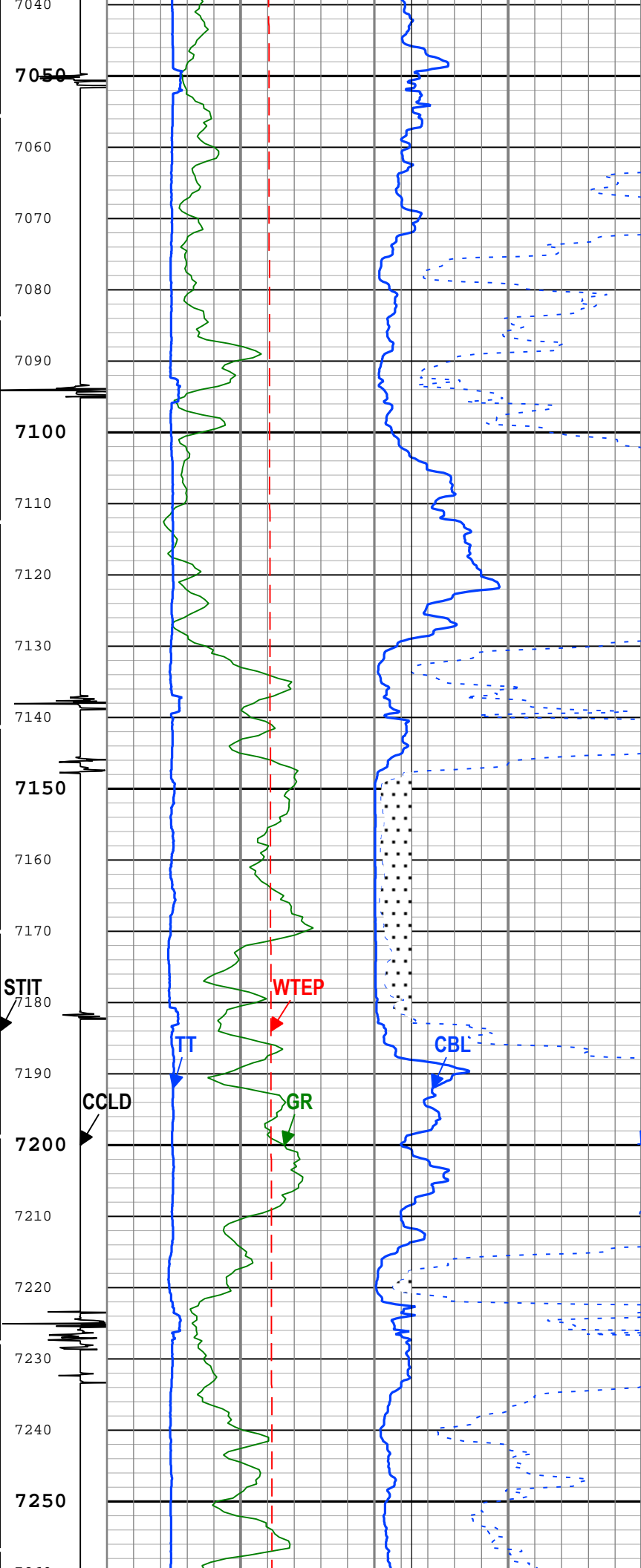


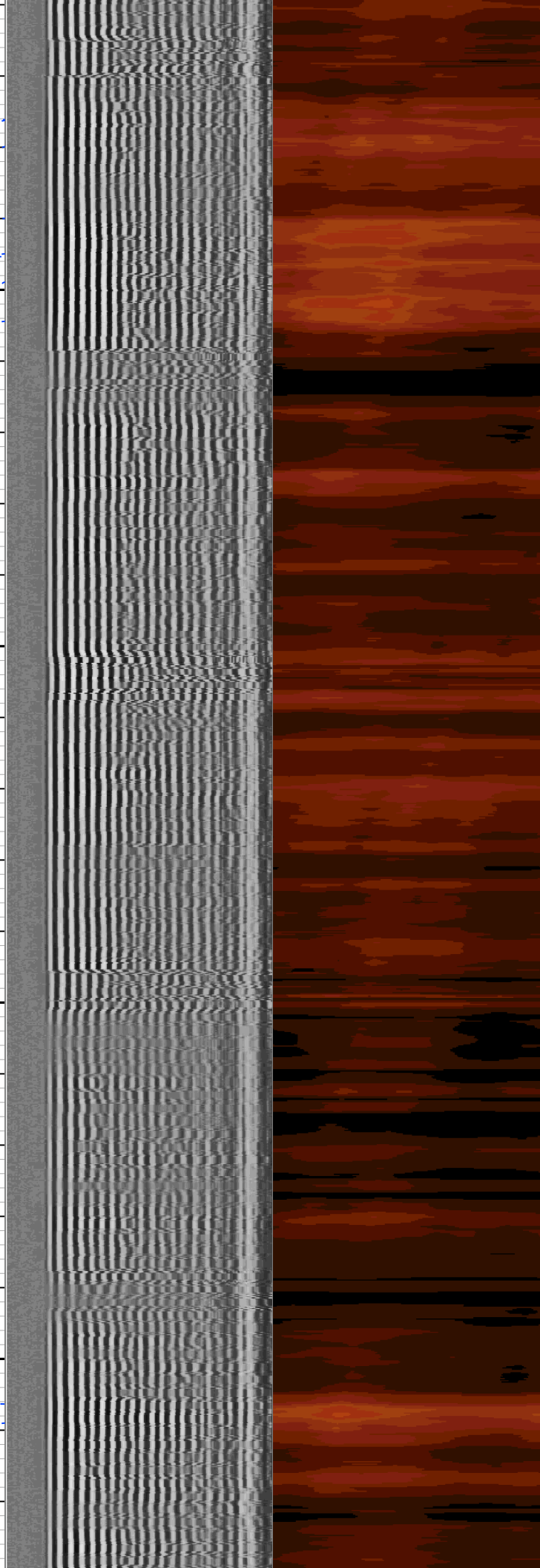
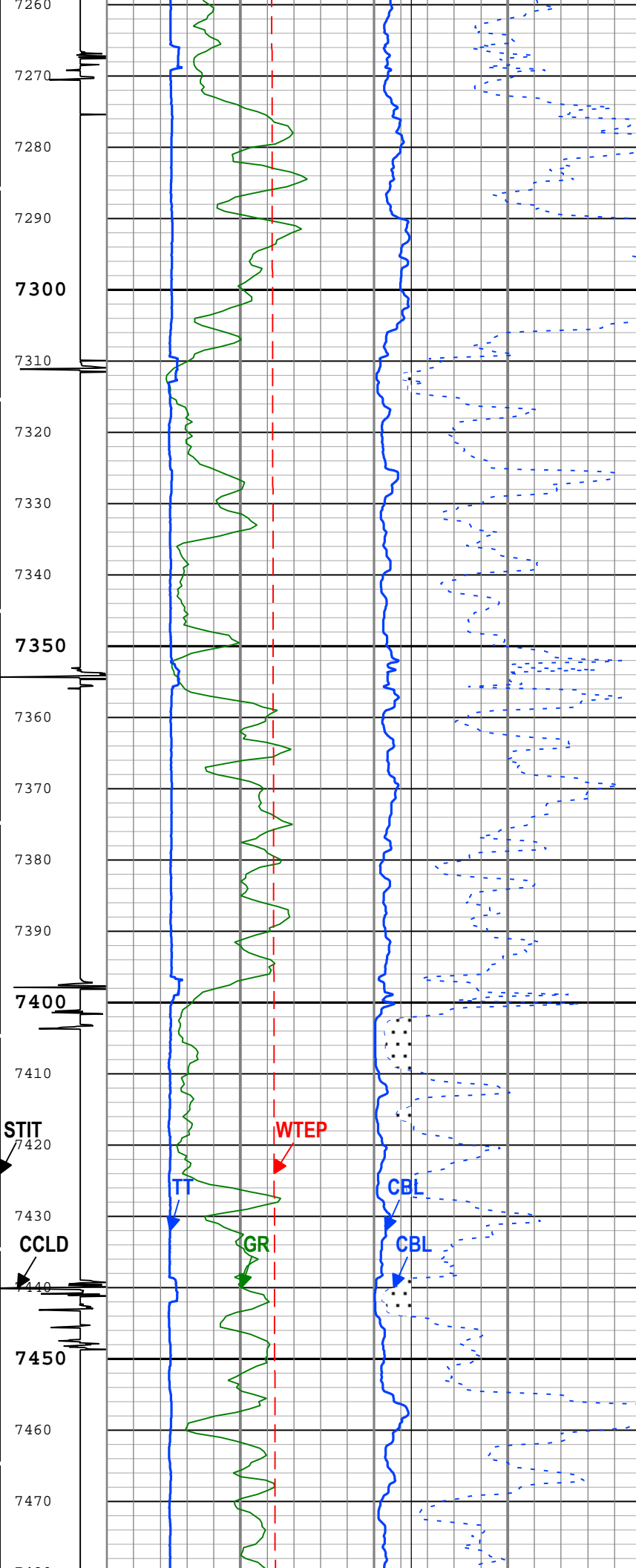


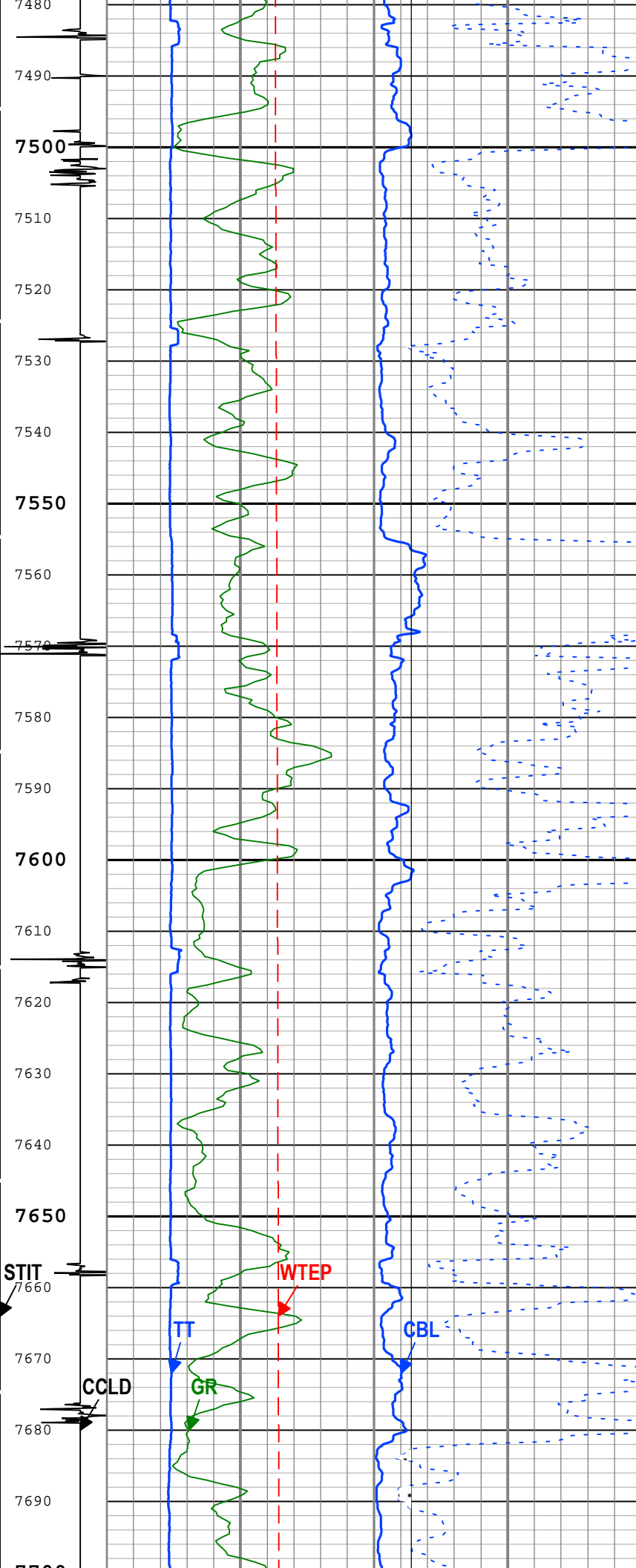




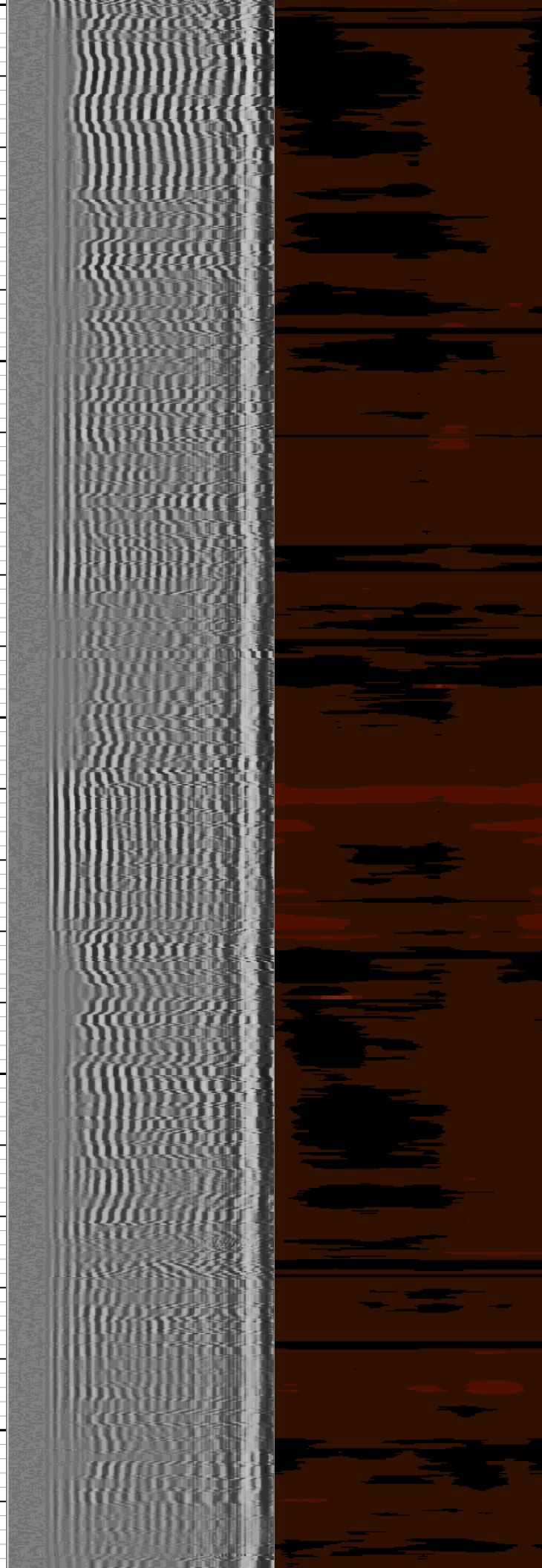
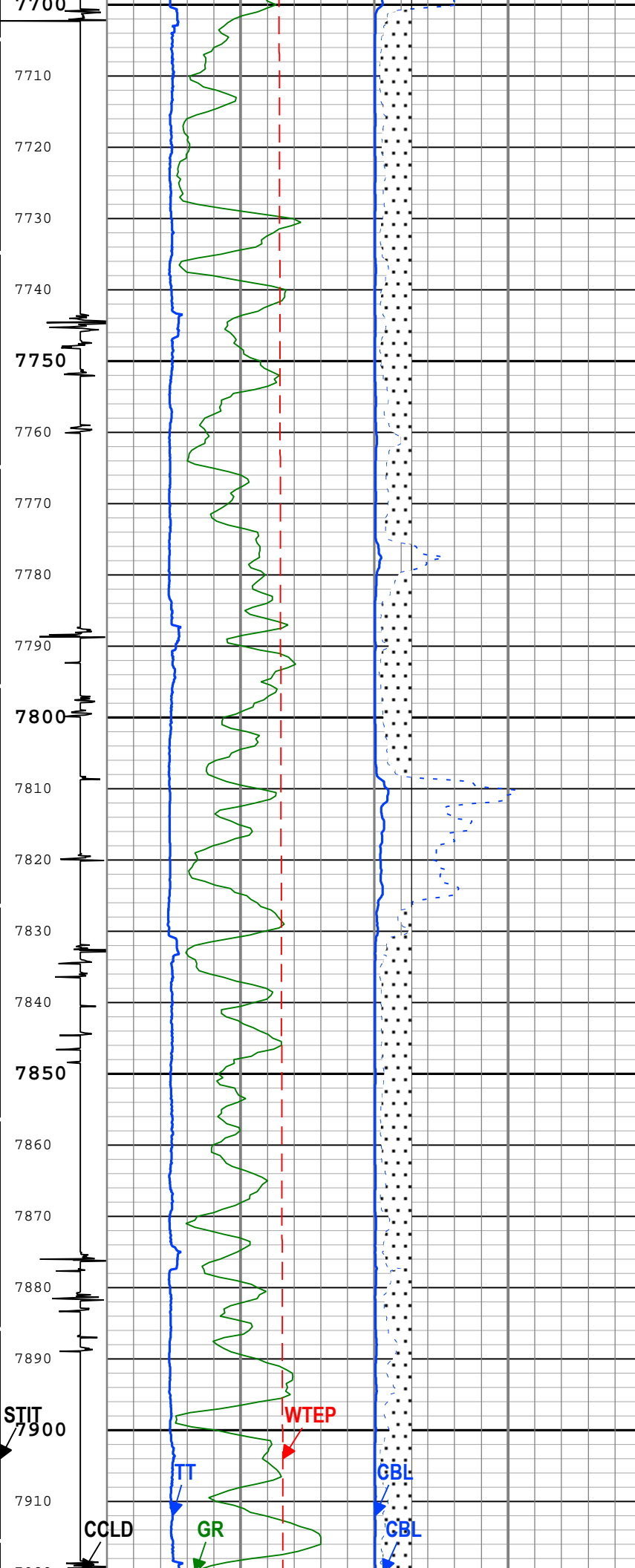


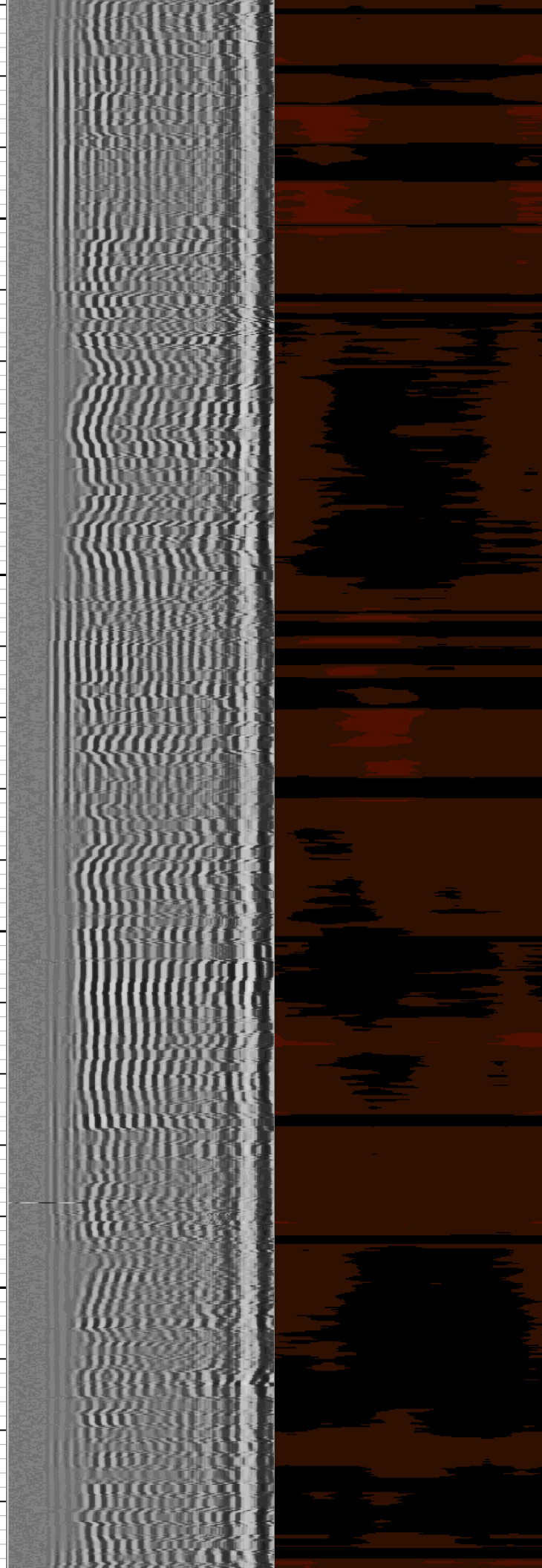
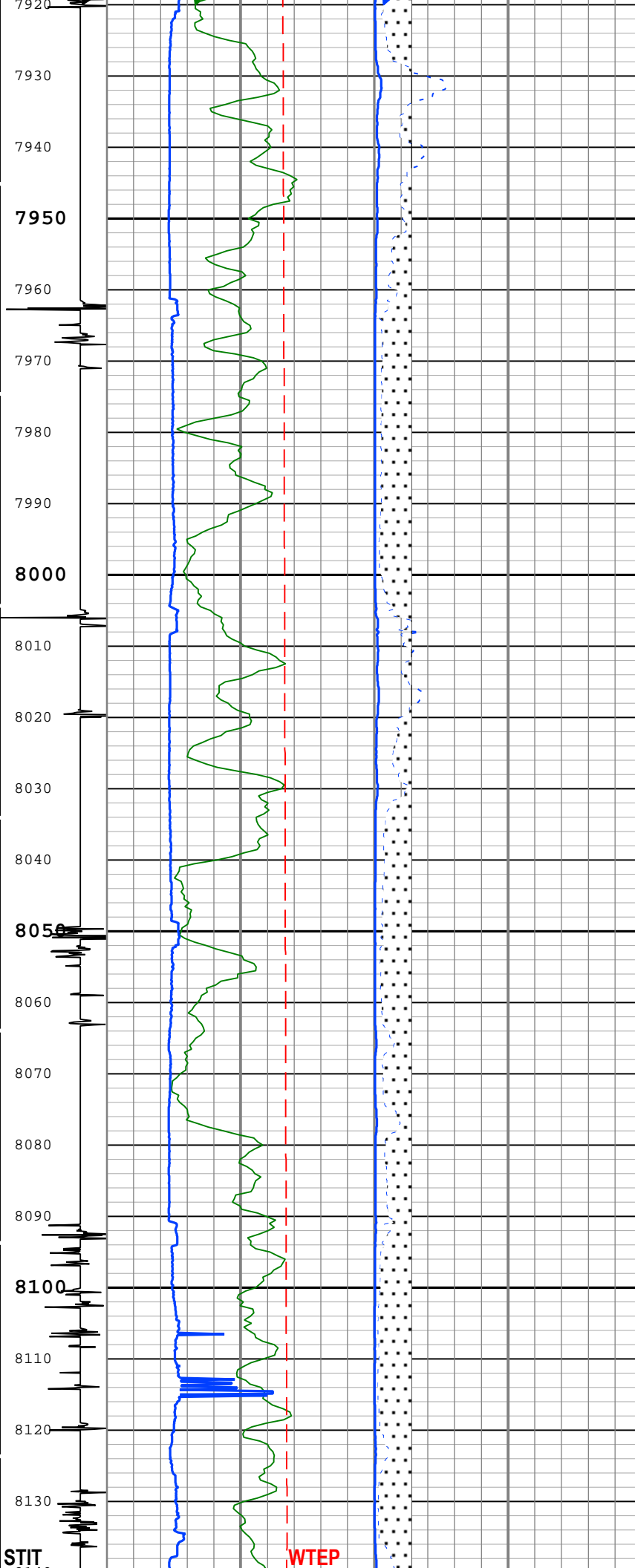




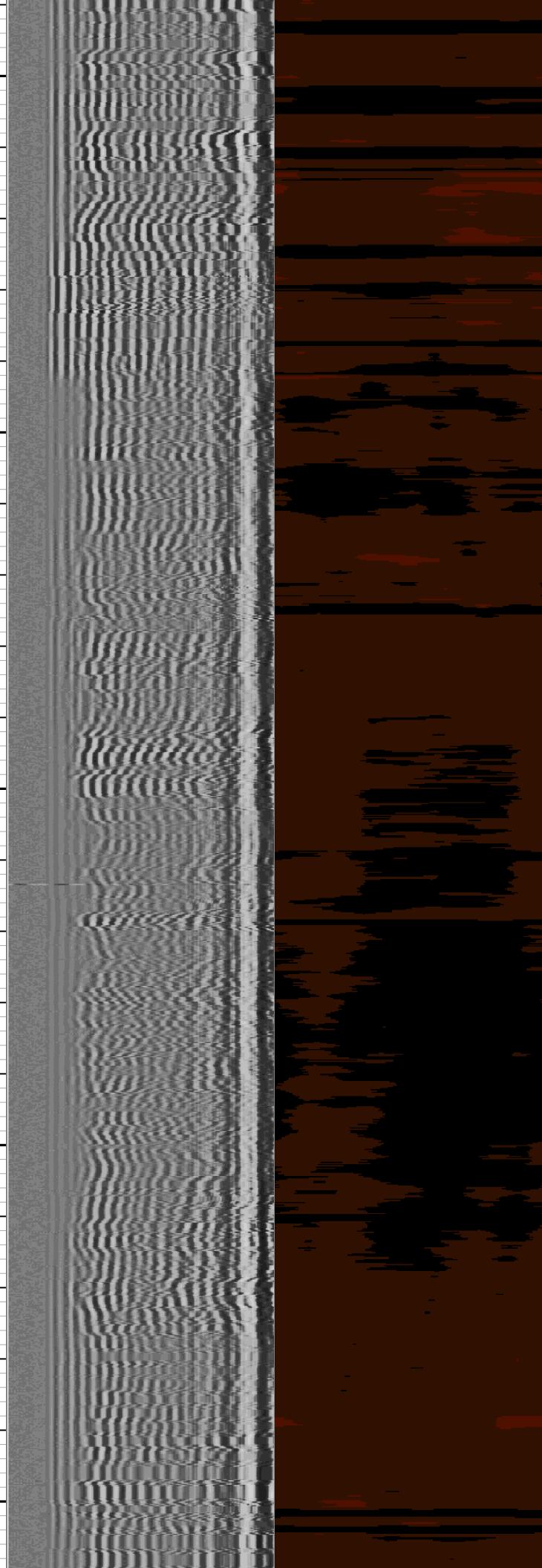
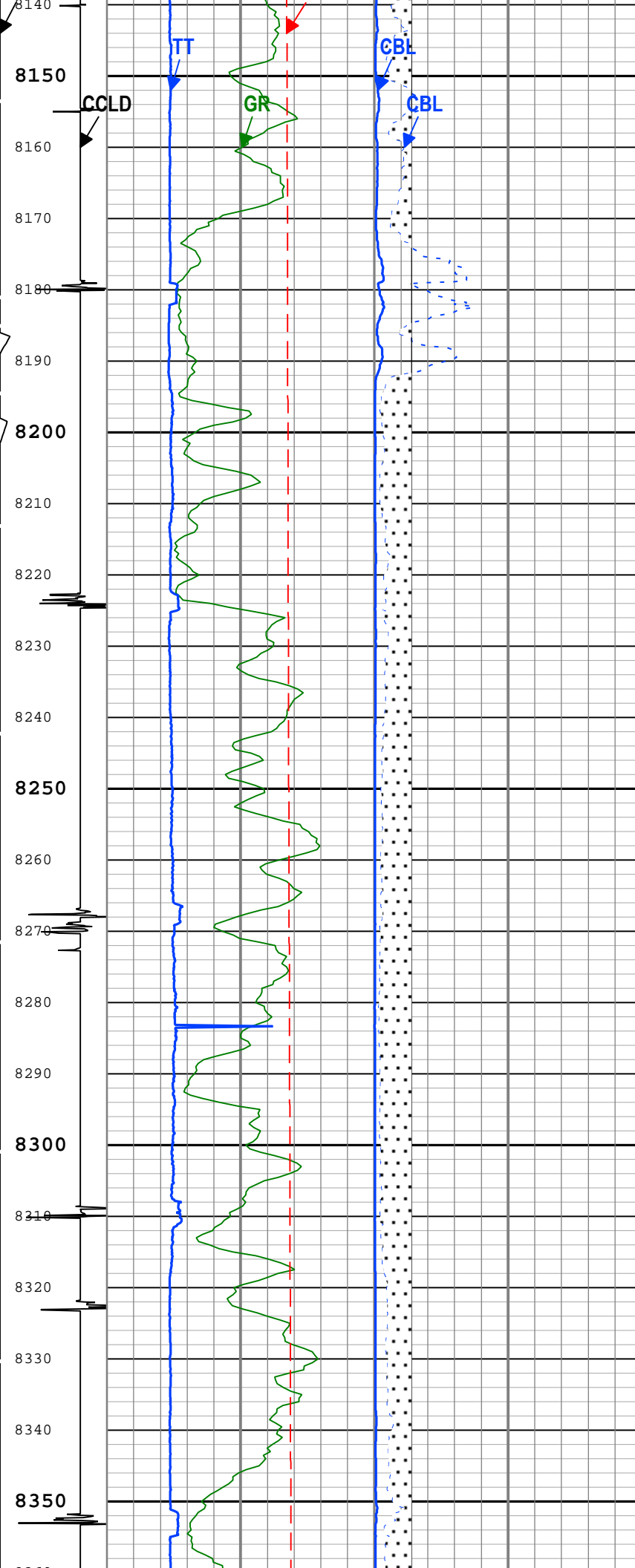


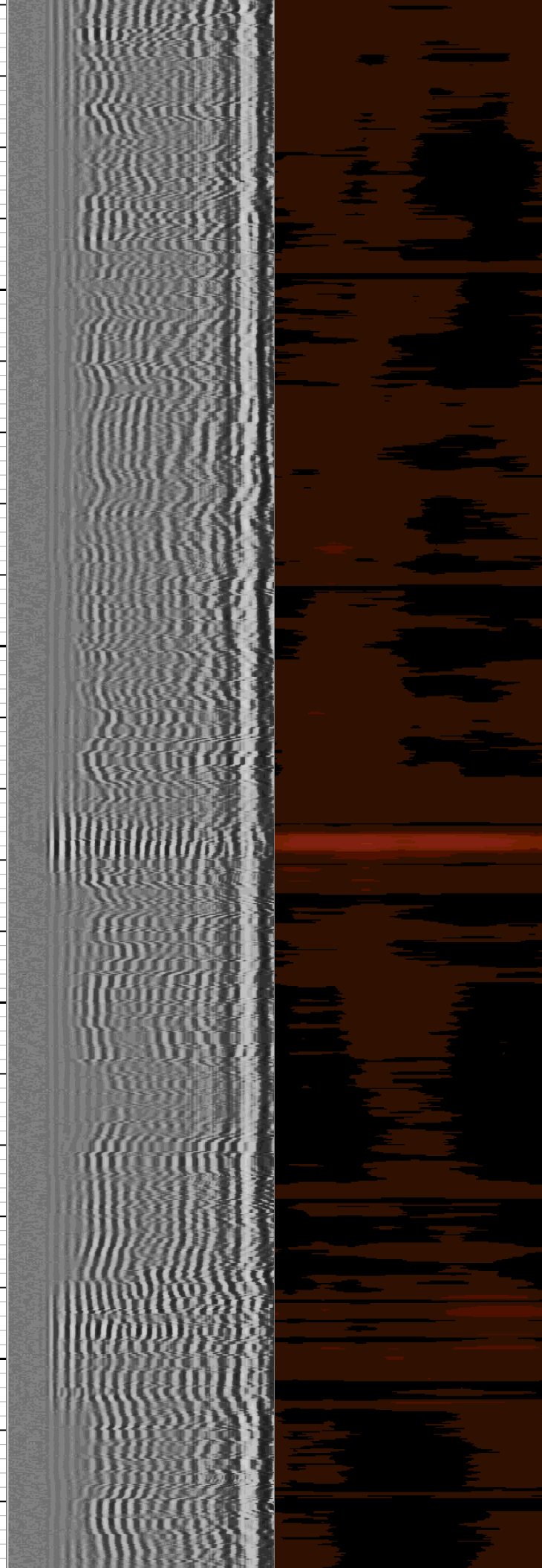
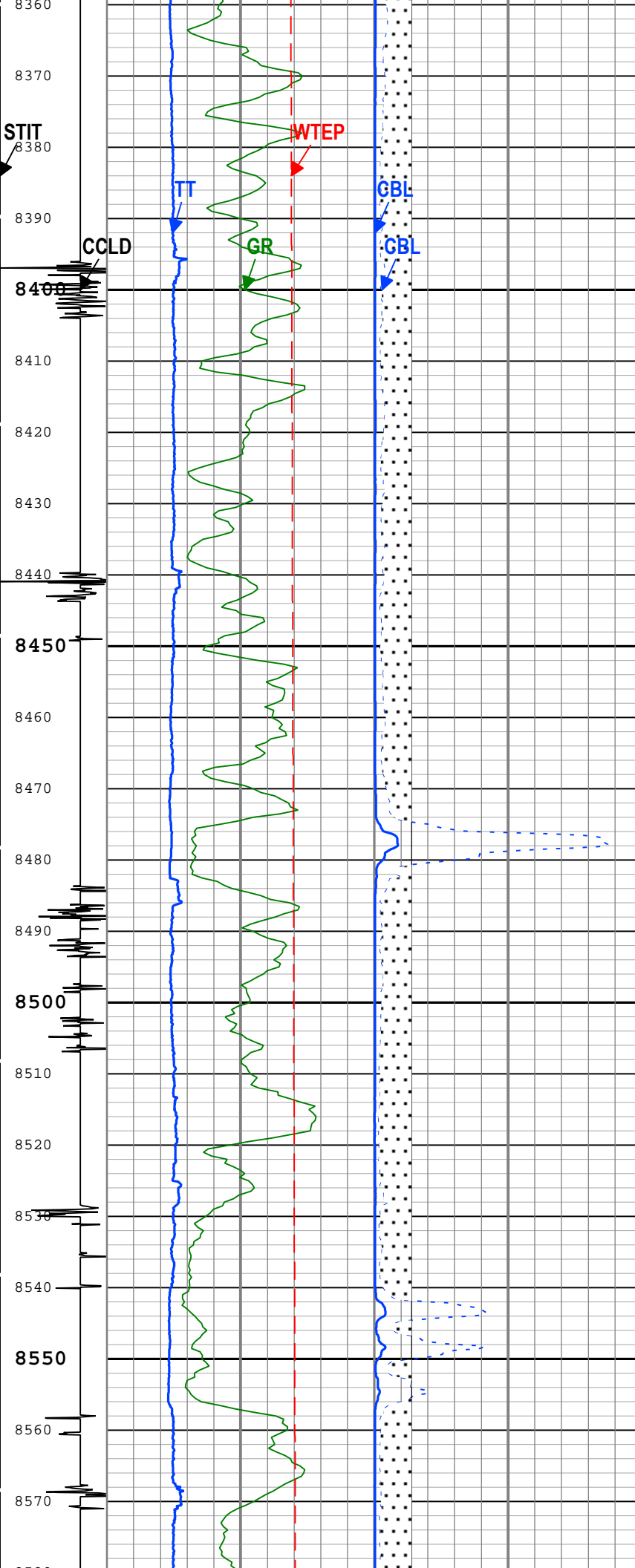


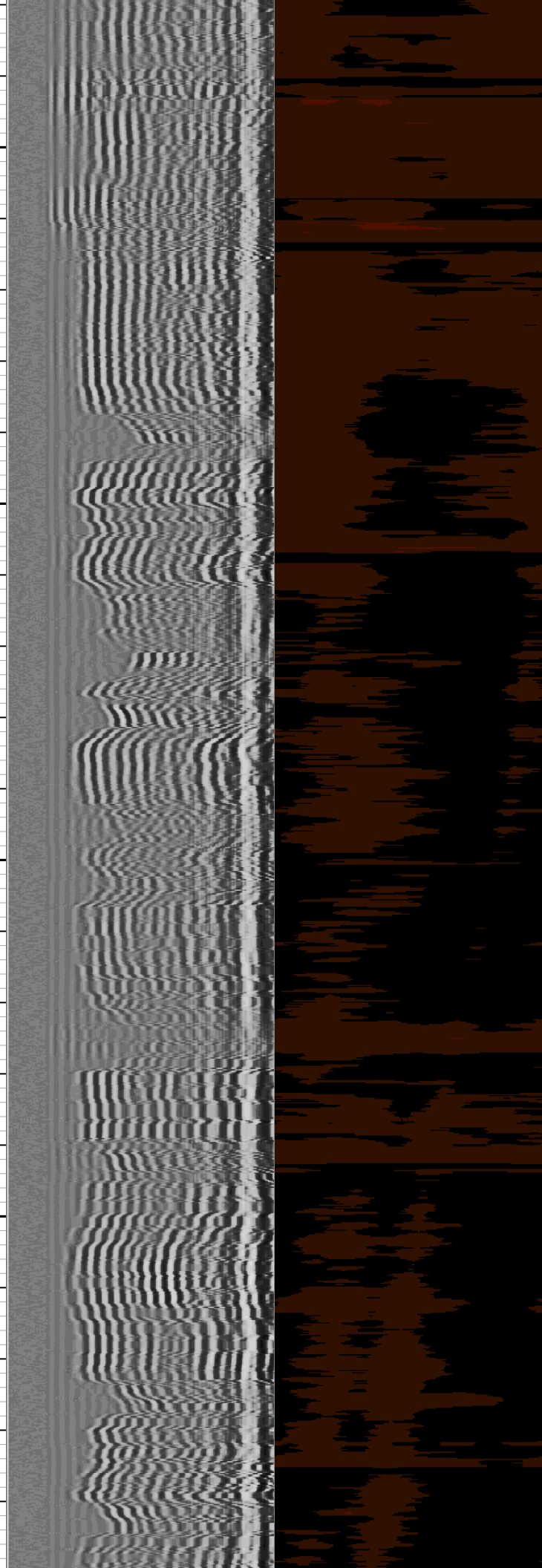
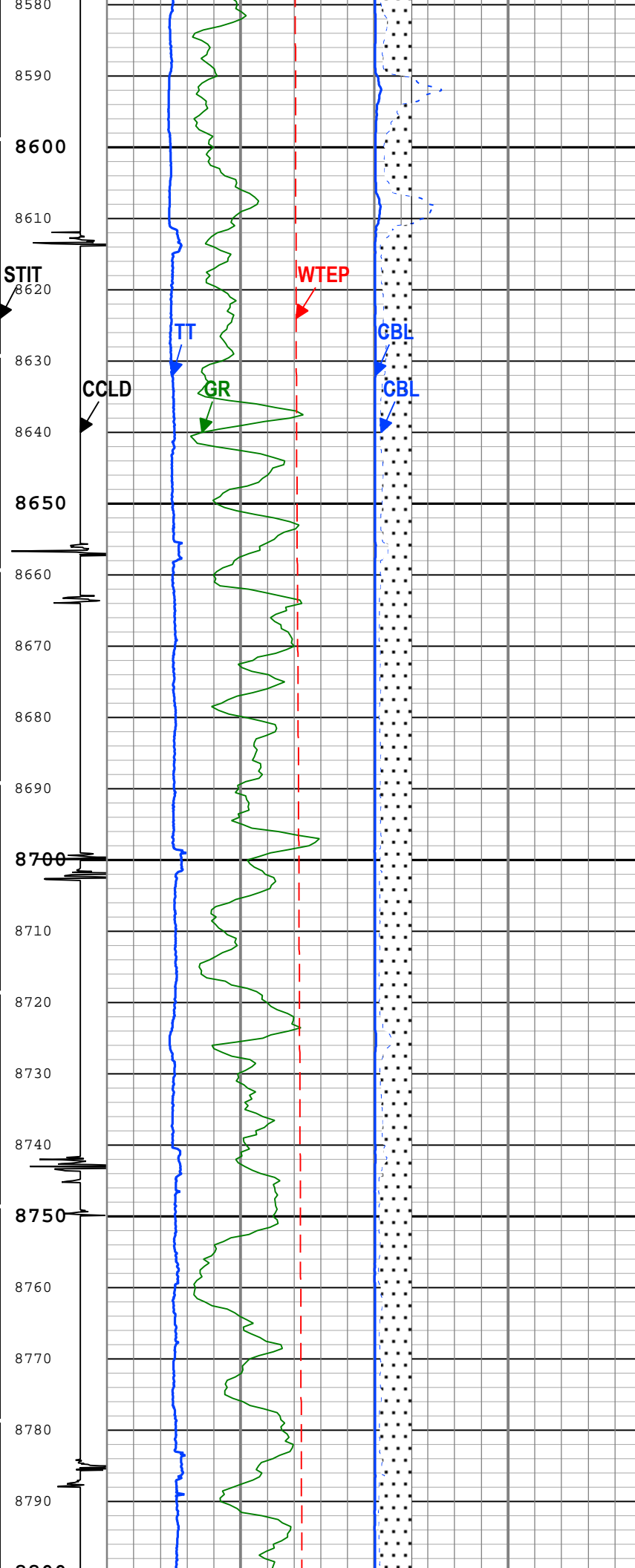




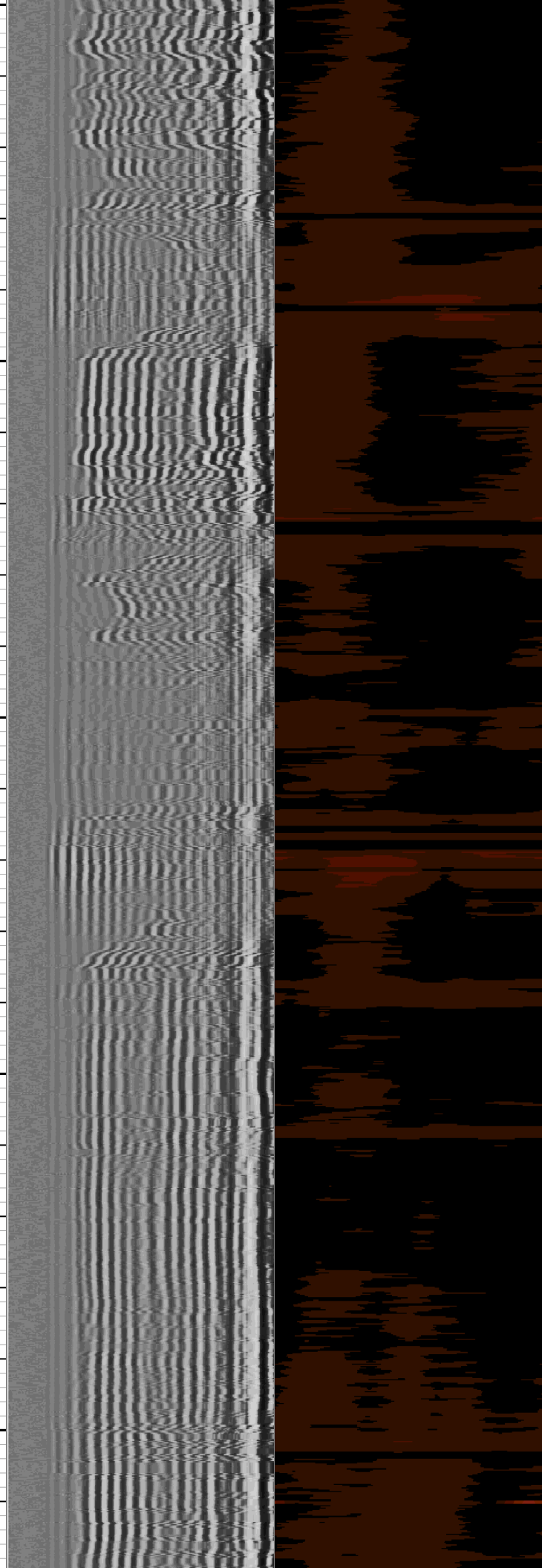
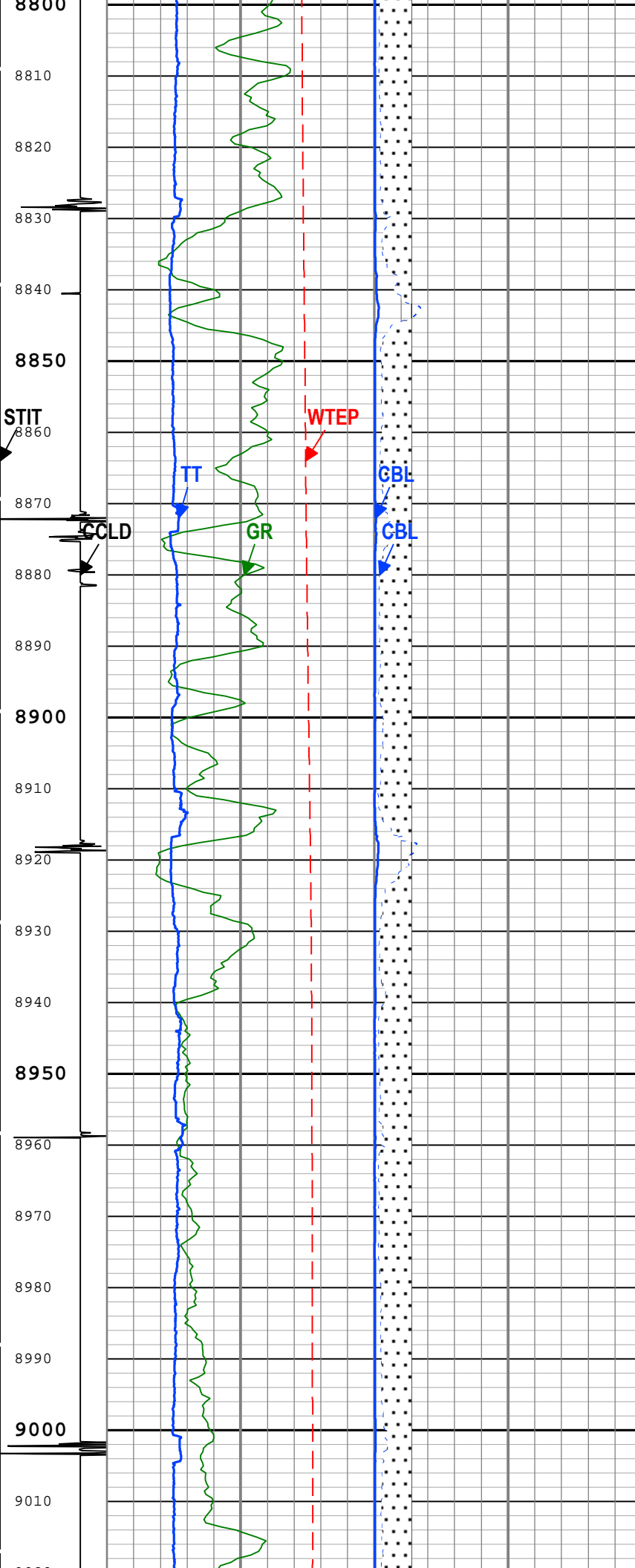


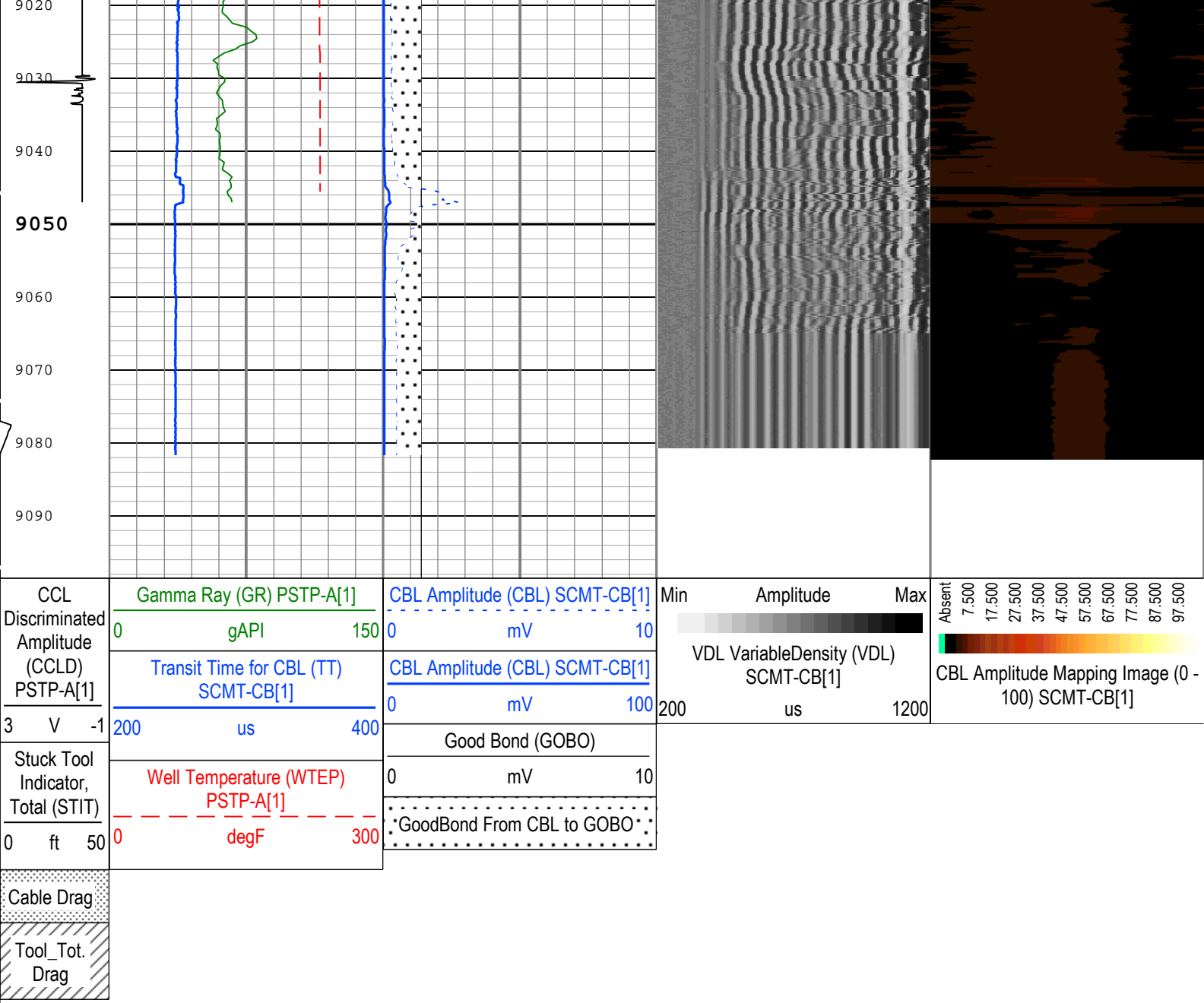










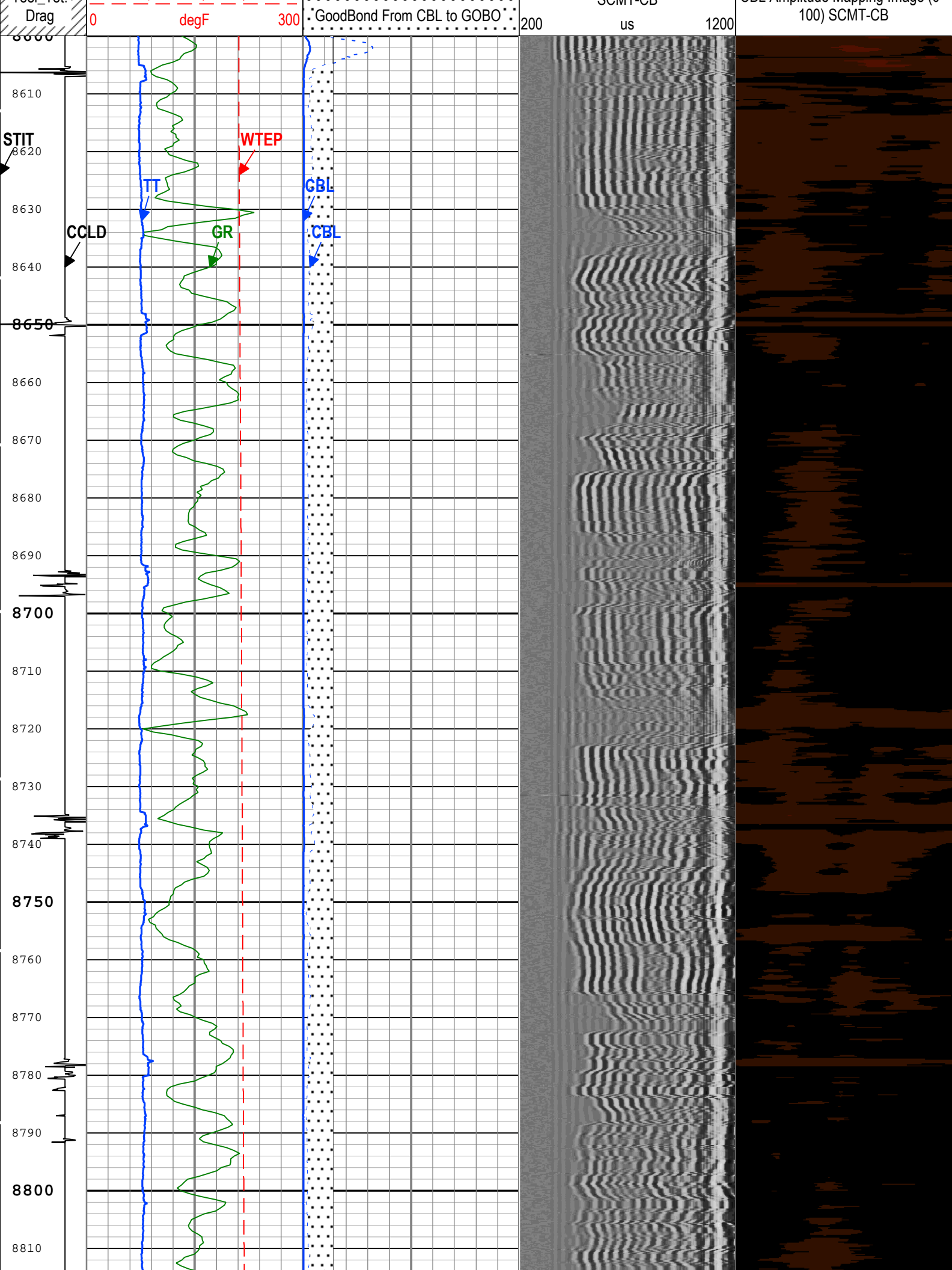


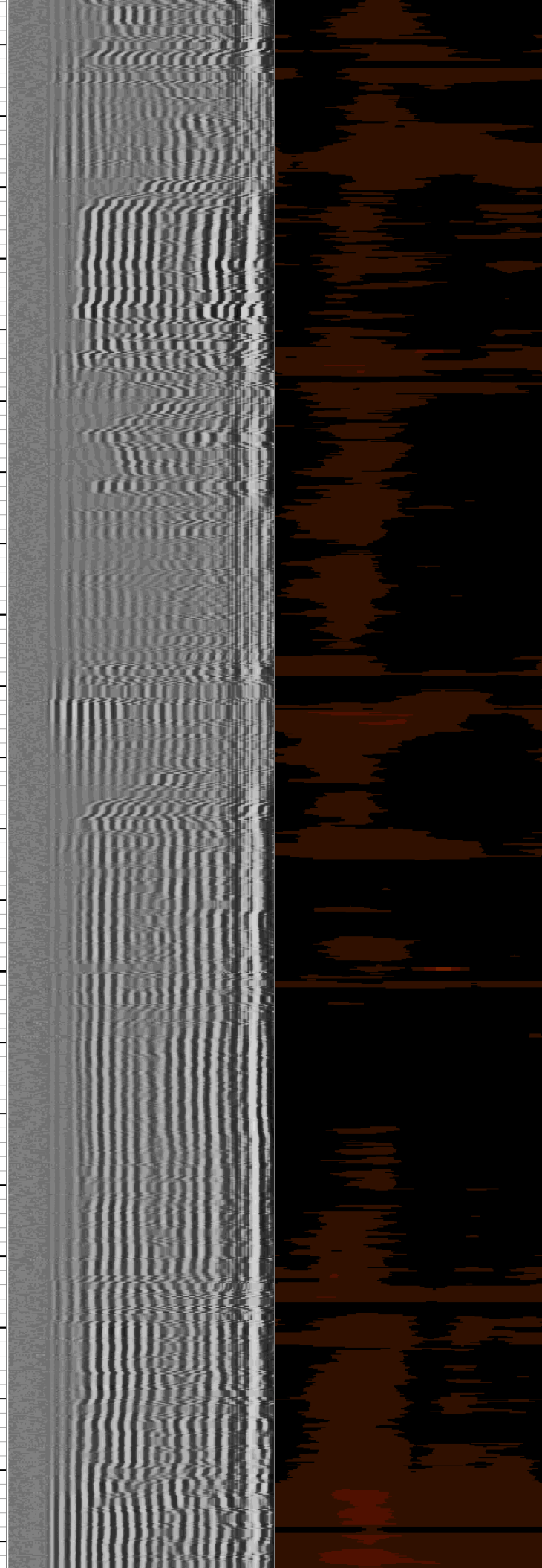
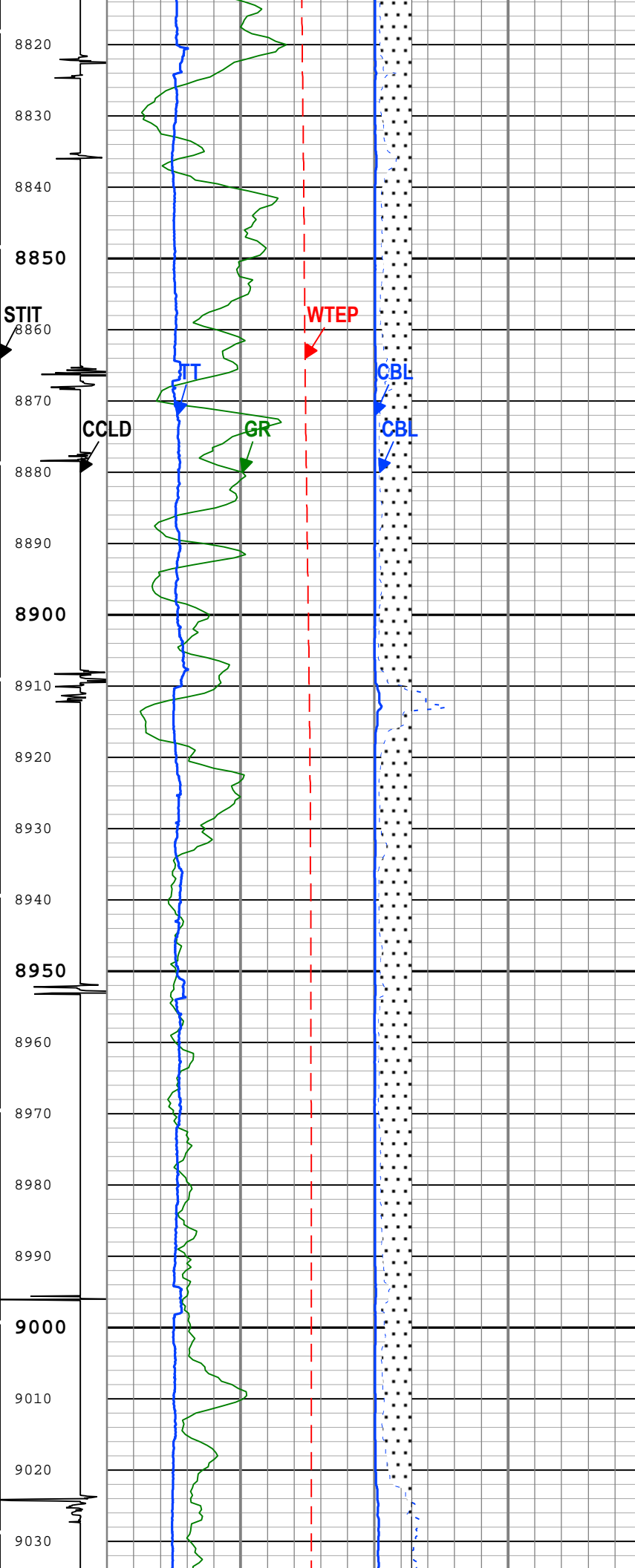
TIME\_1900 - Time Marked every 60.00 (s)

Description: SCMT VDL Image Format: Log ( SCMT\_VDL\_Image\_1 ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 06-Aug-2015 08:25:22

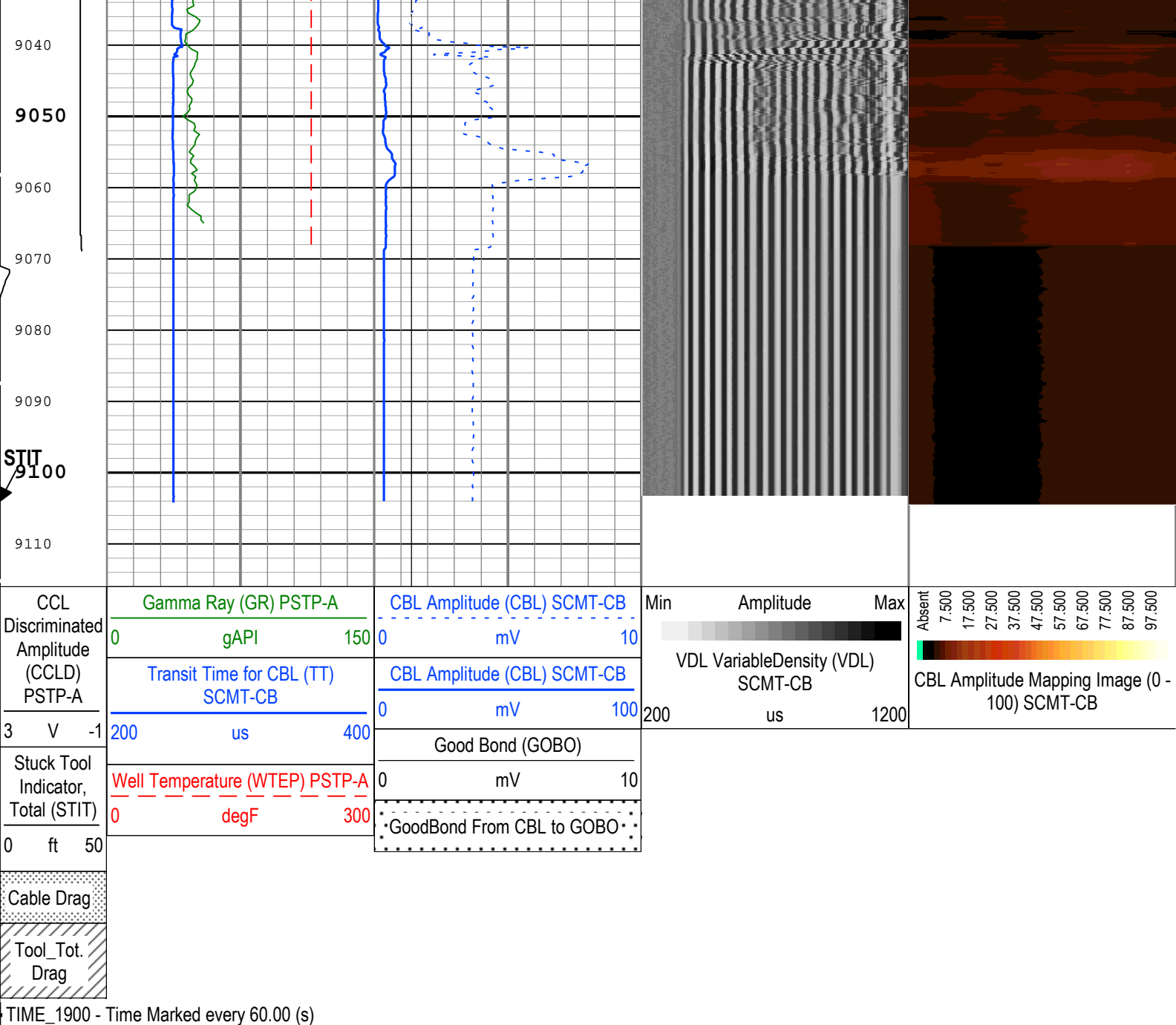
Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	239	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
CMCF	CBL Cement Type Compensation Factor	SCMT-CB	0.12	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	196	us/ft
FCF	CBL Fluid Compensation Factor	SCMT-CB	0.89	
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	7.87	mV











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: 06-Aug-2015 08:25:30

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	239	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
CMCF	CBL Cement Type Compensation Factor	SCMT-CB	0.12	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	196	us/ft
FCF	CBL Fluid Compensation Factor	SCMT-CB	0.89	
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	7.87	mV

GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-CB	167	us
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	10.14	dB/ft
MCCF	MAP Cement Type Compensation Factor	SCMT-CB	0.25	
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	1.25	ft
MMSA	MAP Minimum Sonic Amplitude	SCMT-CB	3.98	mV
MSA	Minimum Sonic Amplitude	SCMT-CB	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	4.41	mV
RUN_SNUM	Run Sequence Number	WSDRUN	1	
ZCMT	Acoustic Impedance of Cement	SCMT-CB	3.4	Mrayl

## Tool Control Parameters

### ONE: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h

## Calibration Report

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

Primary Equipment :

Slim Cement Mapping Sonde

SCMS-CB

8372

### CBL and MAP Amplitude Adjustment - Measurements

Before (Manual Entry): 12:42:39 30-Jul-2015

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Amplitude - 0	mV	Before	----	----	----	----	
Average MAP Amplitude (Fluid Compensated) - 0	mV	Before	----	----	----	----	
Measurement Depth - 0	ft	Before	----	----	----	----	

### CBL and MAP Amplitude Adjustment - Coefficients

Before (Manual Entry): 12:42:39 30-Jul-2015

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Adjustment Factor		Before			0.708		
CBL LQC Reference Amplitude in Free Pipe	mV	Before			80.00		
MAP Adjustment Factor		Before			0.882		
Depth of Before Calibration	ft	Before			1483.07		

### PSTP-A (PSP Telemetry Platform A - Sapphire) Calibration - Run ONE

Primary Equipment :

PBMS-A

PBMS-A

1814

Calibration Parameter :

JIG-BKGD (Jig minus background reference)

150

### PBMS Well Temp Master Calibration

Master (EEPROM): 00:00:00 11-Mar-2002

PBMS\_RTD\_THERM (Master) RTD Coefficients

	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tt**0	166.2169	-442.9836	222.5367	-39.3639	2.621679	0

### PBMS Gamma Ray Master Calibration

Master (EEPROM): 00:00:00 14-Nov-2001

PBMS_GR_MODEL GR Coefficients (Master)		
	Rt**0	Rt**1
Rt**0	1500	3840

PBMS A Reference Clock Master Calibration						
Master (EEPROM): 00:00:00 11-Mar-2002						
PBMS_REF_CLOCK PBMS A Clock Coefficients (Master)						
	Temp**0	Temp**1	Temp**2	Temp**3	Temp**4	Temp**5
Temp**0	-278.6698	2.064625	-0.2005075	0.001553137	-2.817383E-07	0

PBMS A Sapphire Master Calibration						
Master (EEPROM): 00:00:00 11-Mar-2002						
PBMS_P_GAUGE_PRES Sapphire Pressure Model Coefficients (Master)						
	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tp**0	-30895.39	22304.77	-7131.54	1088.081	-64.84312	0
Tp**1	22708.98	-15815.74	5200.516	-813.7849	49.69807	0
Tp**2	-206.2166	83.83393	-9.064614	0	0	0
Tp**3	3.194887	-0.7157836	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	2222.343	-1.531535	-1.735451	0.3578298	-0.04106665	0
Tt**1	-1381.82	3.050812	0.4269152	-0.03685322	0.004793864	0
Tt**2	302.3562	-1.086123	-0.04274265	0	0	0
Tt**3	-23.36074	0.1179722	0	0	0	0
Tt**4	0	0	0	0	0	0
Tt**5	0	0	0	0	0	0

Company:	Caerus Piceance LLC	Schlumberger
Well:	Puckett 41B-2	
Field:	Wildcat	
County:	Garfield	
Country:	US	
Slim Cement Mapping Tool		
CBL-VDL		