

Company: Caerus Piceance LLC

Well: Puckett 43B-2

Field: Wildcat

County: Garfield Country: US

Slim Cement Mapping Tool

CBL-VDL

County: Garfield
Field: Wildcat
Location: SHL: S2, T7S, R97W
Well: Puckett 43B-2
Company: Caerus Piceance LLC

Location:		SHL: S2, T7S, R97W 2122' FSL & 1154' FEL LAT: 39.475678 / LONG: -108.180261	Elev.: K.B. 8509.00 ft G.L. 8479.00 ft D.F. 8509.00 ft
Permanent Datum:	Ground Level		Elev.: 8479.00 f
Log Measured From:	Kelly Bushing		30.00 ft above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Max.Hole Deviation	Longitude:	Latitude:
05-045-22624	0 deg	-108.18026 degrees	39.475678 degrees

Logging Date 24-Jul-2015

Run Number ONE

Depth Driller 8915.00 ft

Schlumberger Depth 8848.00 ft

Bottom Log Interval 8848.00 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 2500.00 ft

To 8915.00 ft

Casing/Tubing Size 4.5 in

Weight 11.6 lbm/ft

Grade P110

From 0.00 ft

To 8911.00 ft

Max Recorded Temperatures 225 degF

Logger on Bottom 24-Jul-2015 14:37:00

Unit Number 2135 Location: Benjamin Mammon Fort Morgan, CO

Recorded 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.

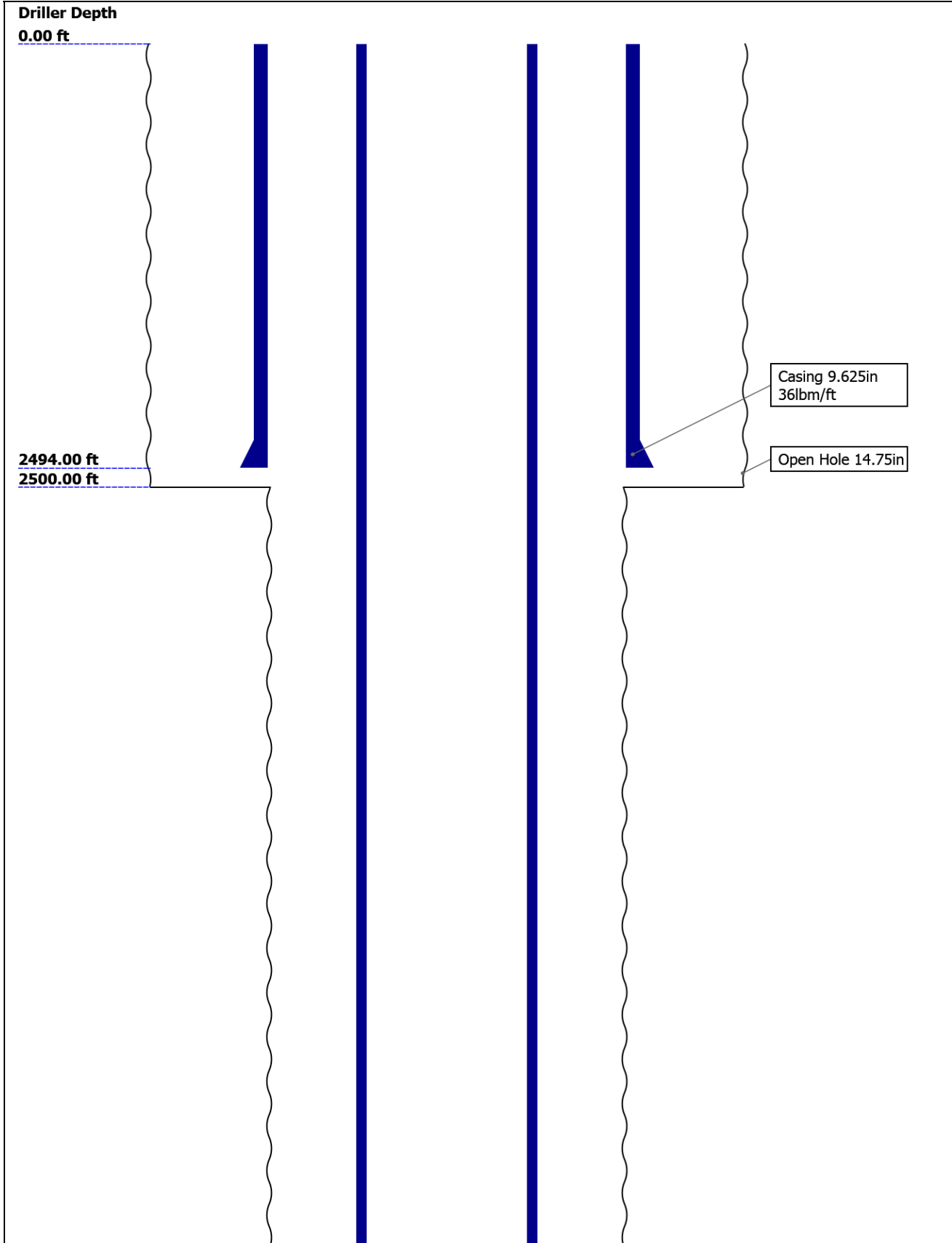
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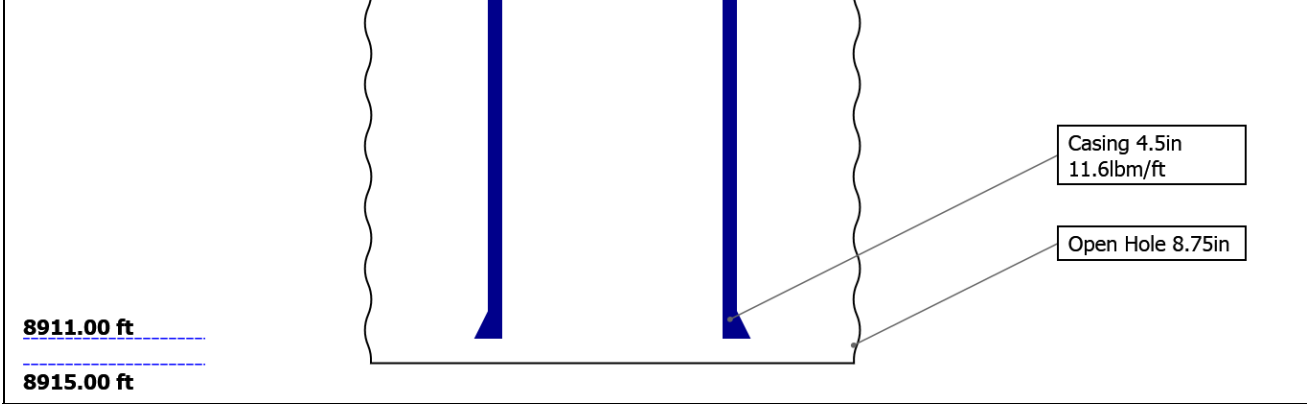
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Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	14.75	8.75				
Top Driller (ft)	0	2500				
Top Logger (ft)	0	2500				
Bottom Driller (ft)	2500	8915				
Bottom Logger (ft)	2500	8915				
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)	2494	8911				
Bottom Logger (ft)	2494	8911				

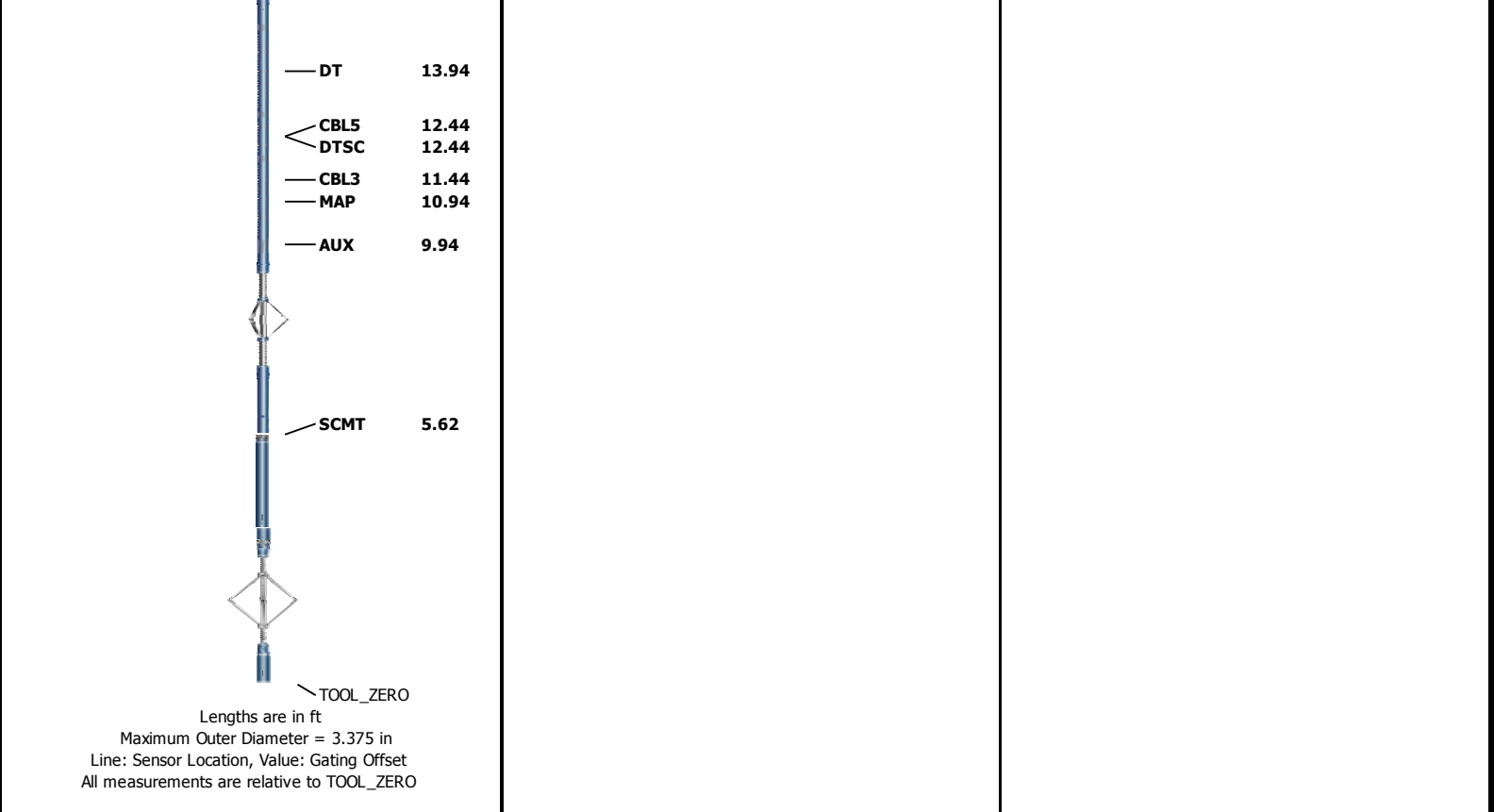
Operational Run Summary

Parameter (unit)	ONE					
Date Log Started	24-Jul-2015					
Time Log Started	13:16:34					
Date Log Finished	24-Jul-2015					
Time Log Finished	19:07:47					
Top Log Interval (ft)	2500.00					
Bottom Log Interval (ft)	8848.00					
Total Depth (ft)						
Max Hole Deviation (deg)	0.00					
Azimuth of Max Deviation (deg)	0.00					
Bit Size (in)	8.750					
Logging Unit Number	2135					
Logging Unit Location	Fort Morgan, CO					
Recorded By	Benjamin Marmon					

Witnessed By	Natalie Naeve					
Service Order Number	D5ND-00079					

Remarks and Equipment Summary

ONE: Toolstring				ONE: Remarks	
<div><div><div>Equip name</div><div>LEH-QT</div><div>LEH-QT</div></div><div><div>Length</div><div>58.39</div></div></div> <div></div> <div><div><div>MP name</div><div>Offset</div></div><div><div>GR</div><div>50.62</div></div><div><div>PSTC</div><div>50.32</div></div><div><div>PSTC Too</div><div>0.00</div></div><div><div>I String B</div><div></div></div><div><div>ottom</div><div></div></div><div><div>Tempera</div><div>47.53</div></div><div><div>ture</div><div></div></div><div><div>Sapphire</div><div>47.42</div></div><div><div>Pressure</div><div></div></div><div><div>CCL</div><div>46.81</div></div><div><div>PBMS</div><div>46.06</div></div><div><div>RSC-E</div><div>39.7</div></div><div><div>Far</div><div>36.94</div></div><div><div>Near</div><div>36.44</div></div><div><div>RSX-E</div><div>23.03</div></div></div>	Tool ran as per tool sketch.				
		This is the first run in the hole.			
		Main and Repeat passes are correlated to			
	<div><div><div>AH-63</div><div>AH-79</div></div><div><div>55.47</div><div>55.16</div></div></div>	RST ran in Sigma mode.			
	<div><div><div>PSTP-A:19</div><div>63</div></div><div><div>54.32</div></div></div> <div><div>PSC-A</div><div>PSTC-A</div><div>PBMS-A:196</div><div>3</div><div>Sapphire 10k</div><div>PSI</div></div>	Matrix: Sandstone, 2.68 g/cc			
		Tagged float collar at 8848'.			
		Repeat pass is done with 0 psi.			
		Main pass logged with 2500 psi.			
		Logged stopped at 2500' as per client request.			
	<div><div><div>RST-C:178</div><div>7</div></div><div><div>46.06</div></div></div> <div><div>RSCH-A:374</div><div>RSC-E:381</div><div>RSS-A:254</div><div>MNTR-F:1</div><div>RSXH-A:275</div><div>RSX-E:1787</div></div>				



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		Depth Control Remarks	
Log Sequence	First Log In the Well	All Schlumberger depth control procedures were followed during logging operations. IDW used as primary depth control. Z-Chart used as secondary depth control	
Rig Up Length At Surface			
Rig Up Length At Bottom			

Rig Up Length At Bottom	2 Chart used as secondary depth control.
Rig Up Length Correction	
Stretch Correction	
Tool Zero Check At Surface	

ONE

Main Pass 2500 PSI

Software Version

Acquisition System	Version
Maxwell 2016	6.0.47569.3100

Pass Summary

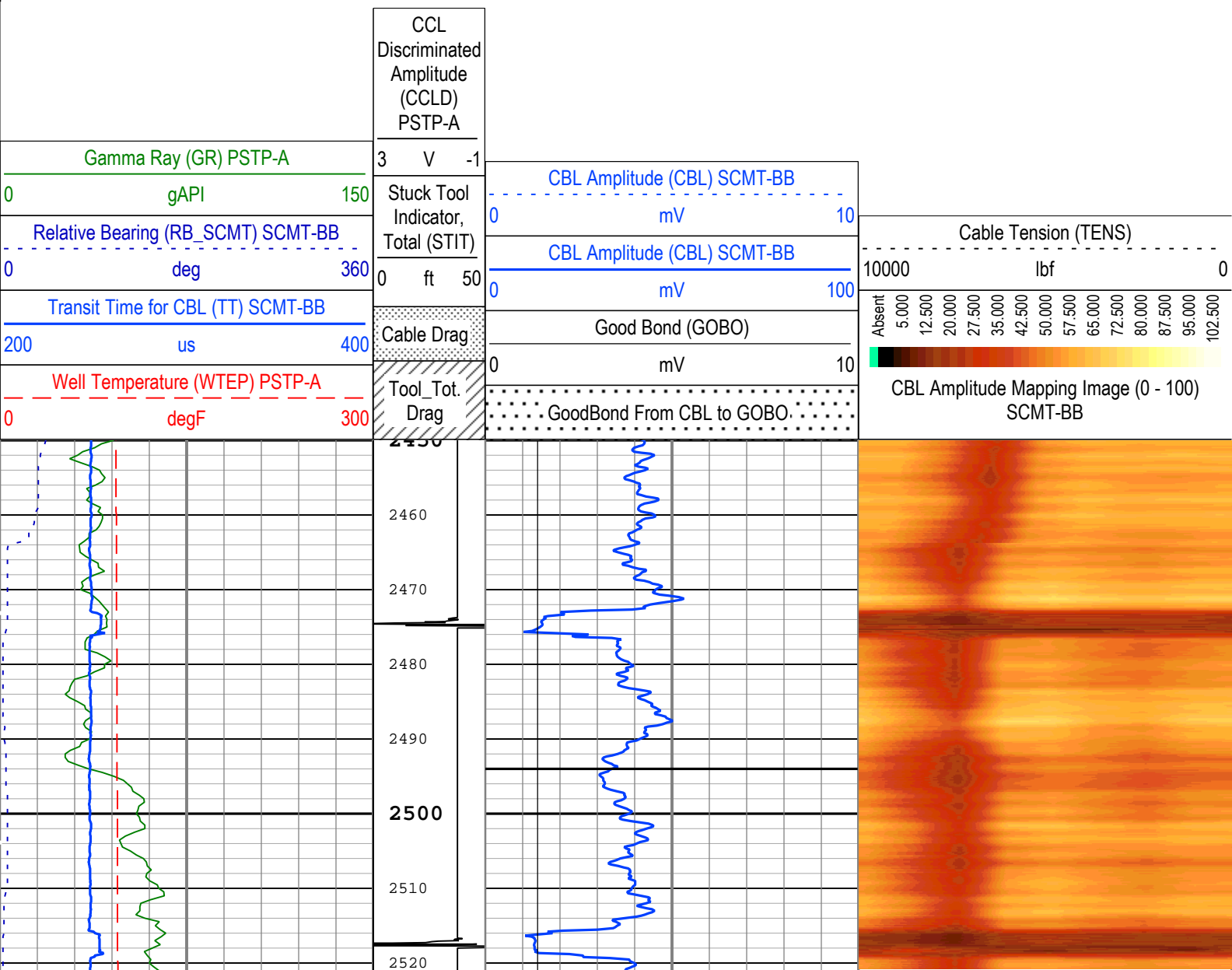
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[3]:Up	Up	2449.81 ft	8880.28 ft	24-Jul-2015 3:08:05 PM	24-Jul-2015 6:42:45 PM	ON	5.73 ft	Yes

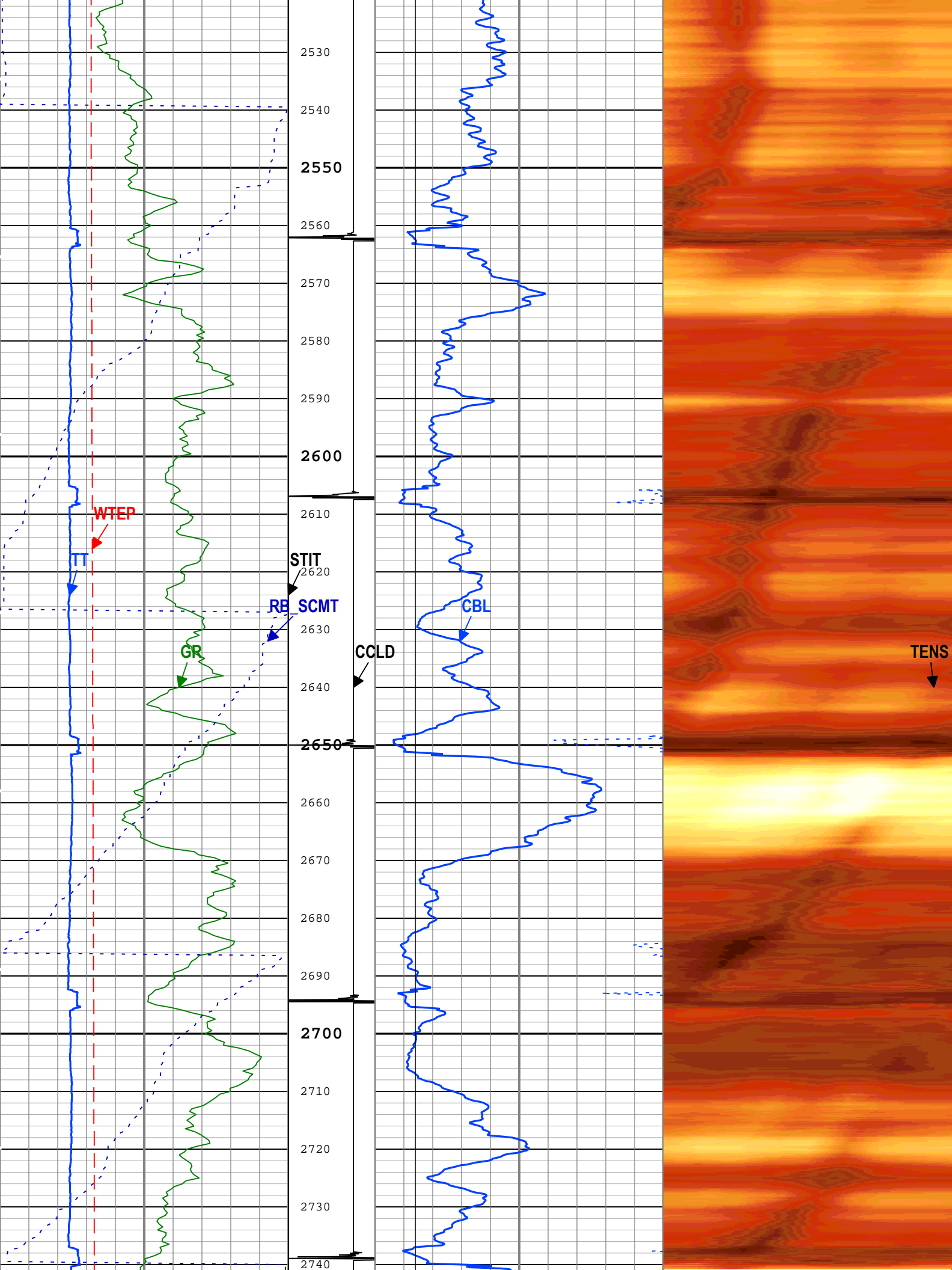
All depths are referenced to toolstring zero

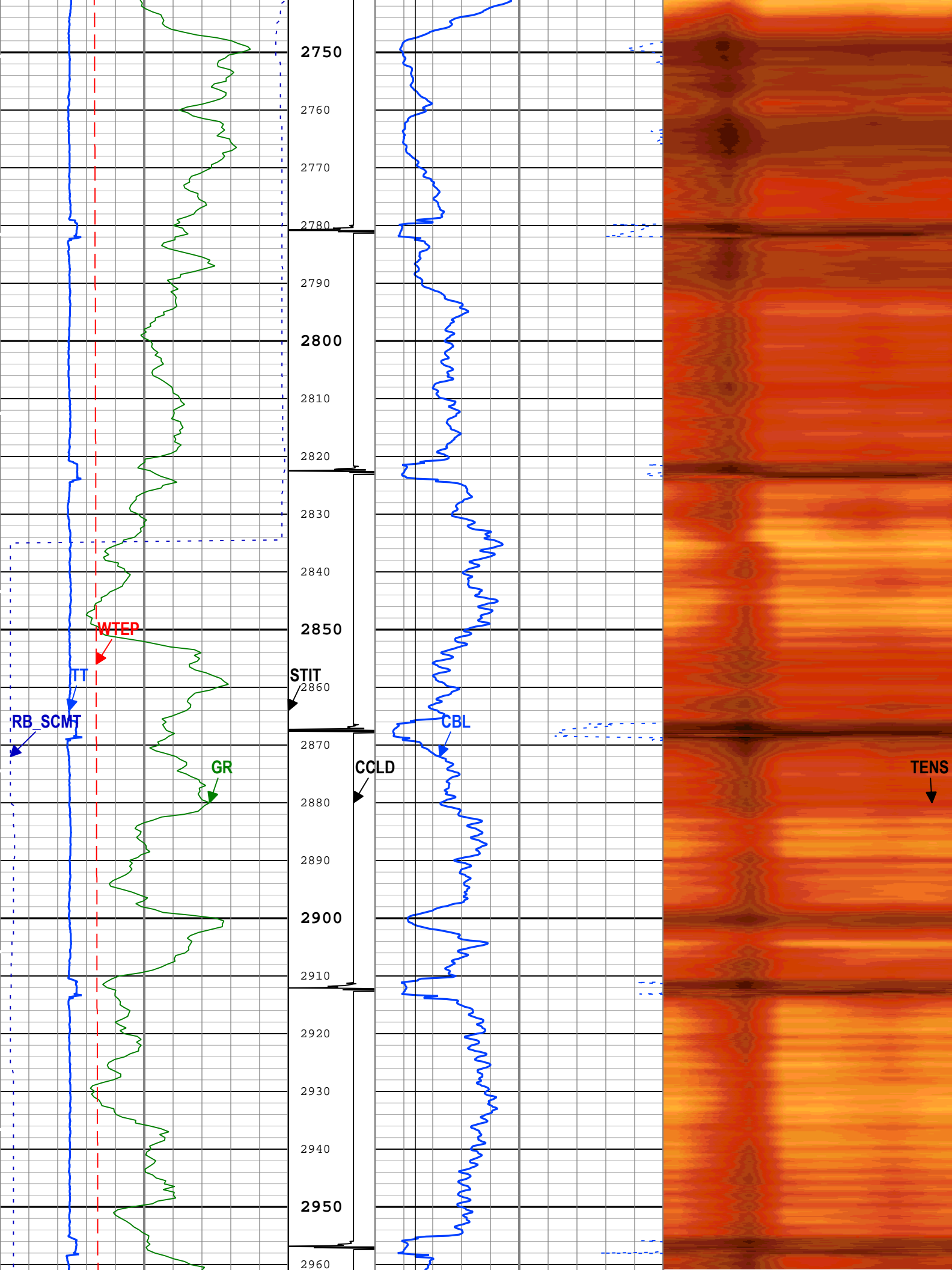
Log	Company:Caerus Piceance LLC Well:Puckett 43B-2 ONE: Log[3]:Up:S013
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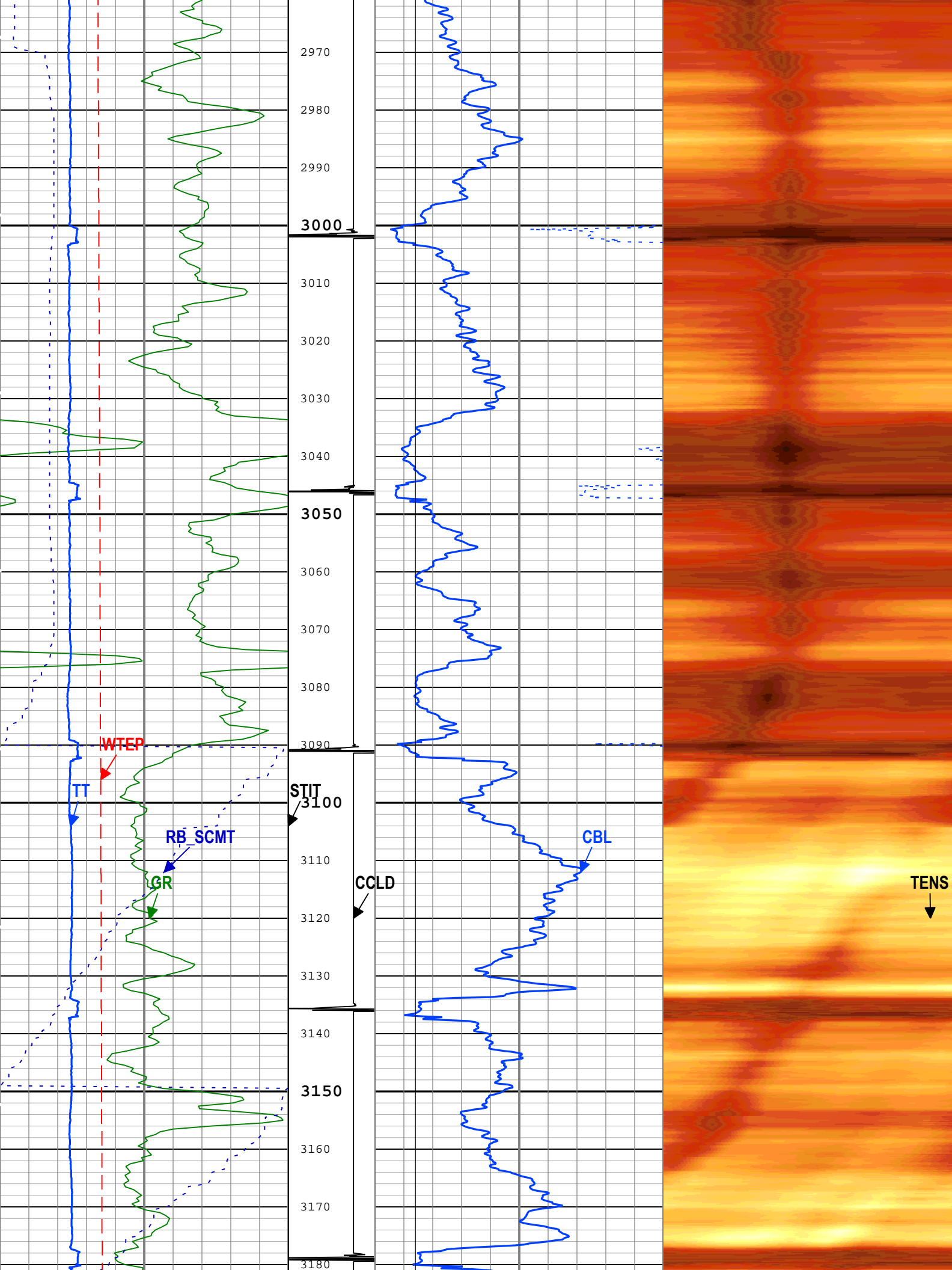
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Depth Creation Date: 05-Aug-2015 18:20:20

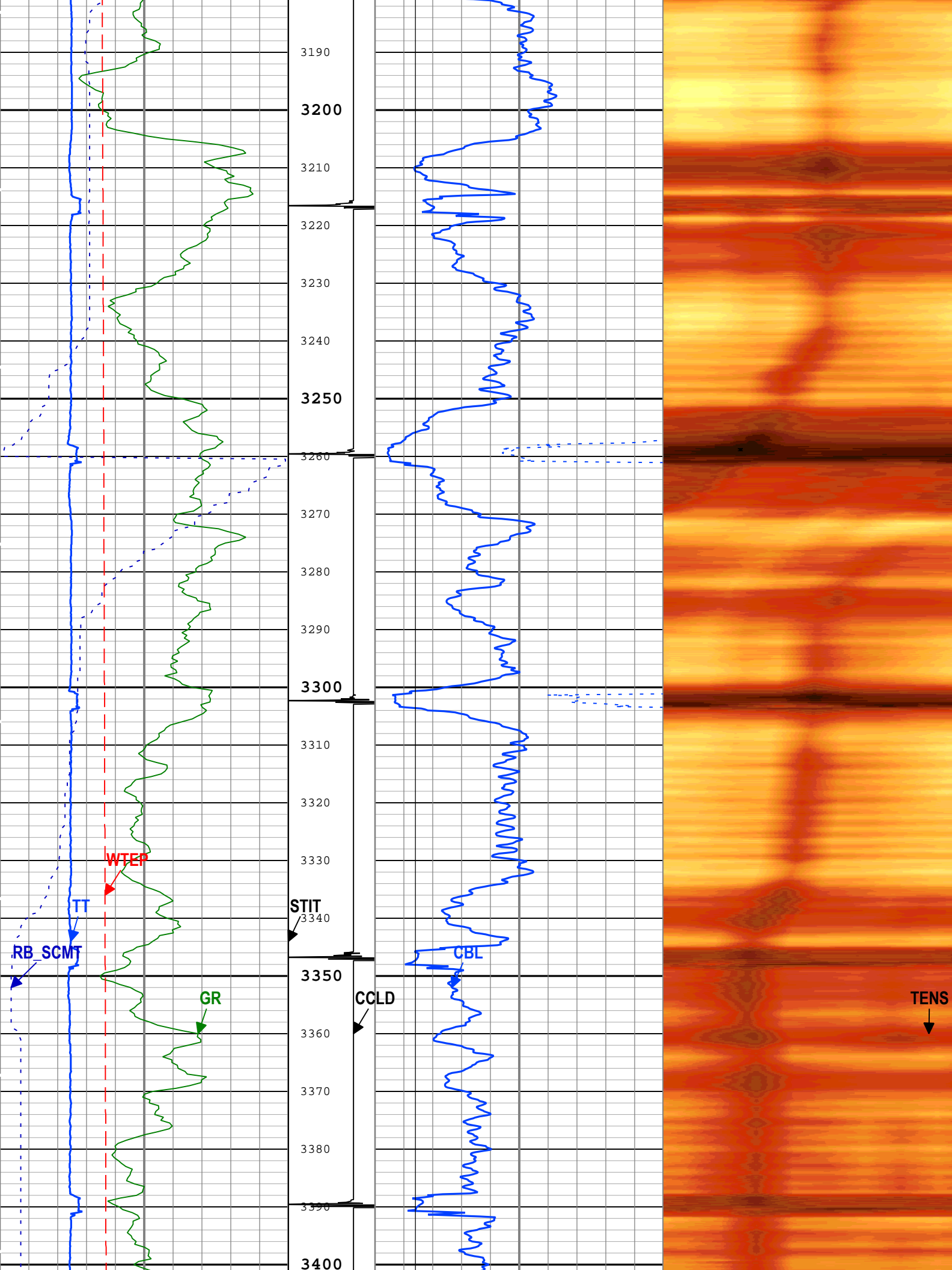
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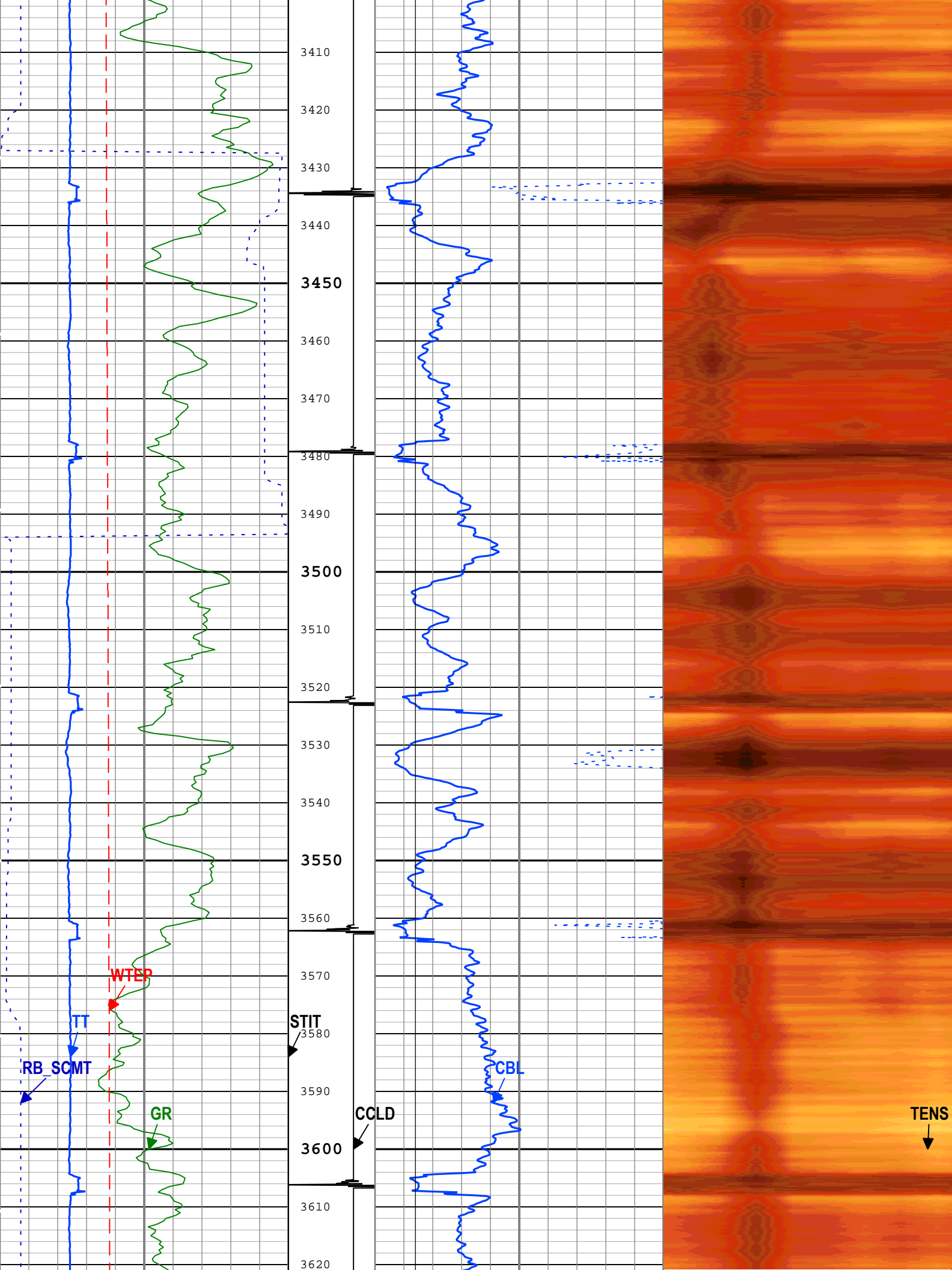


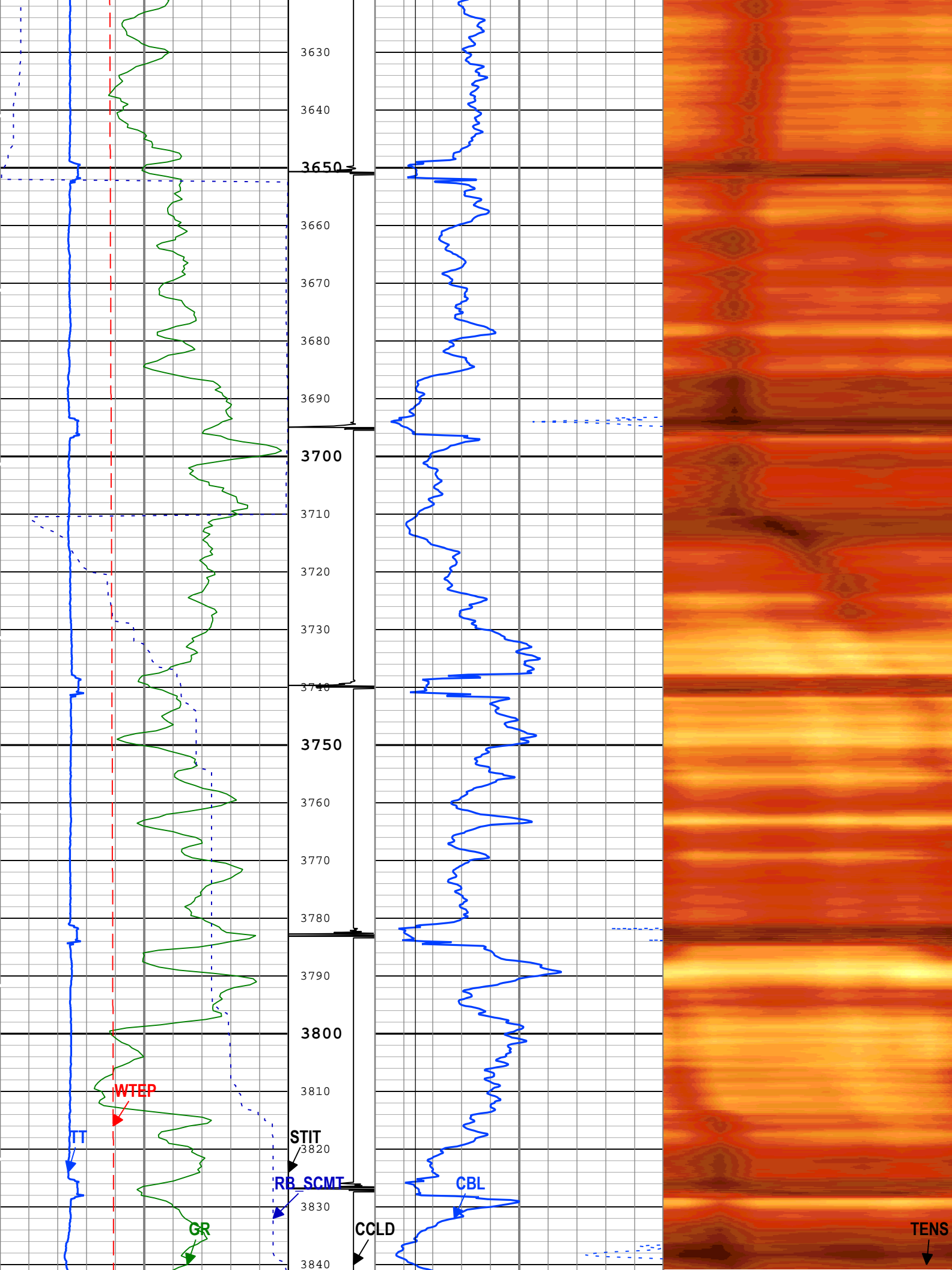


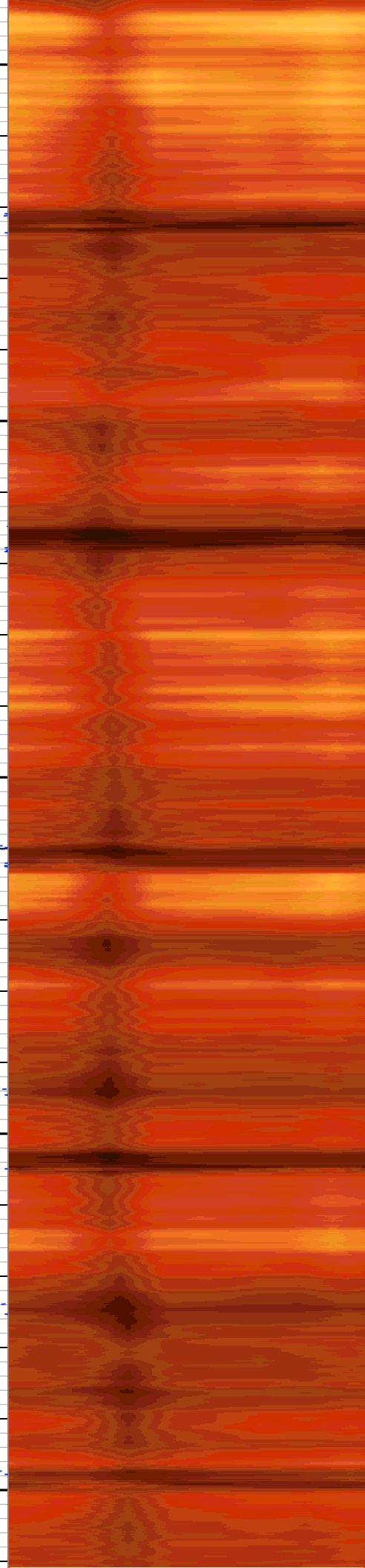
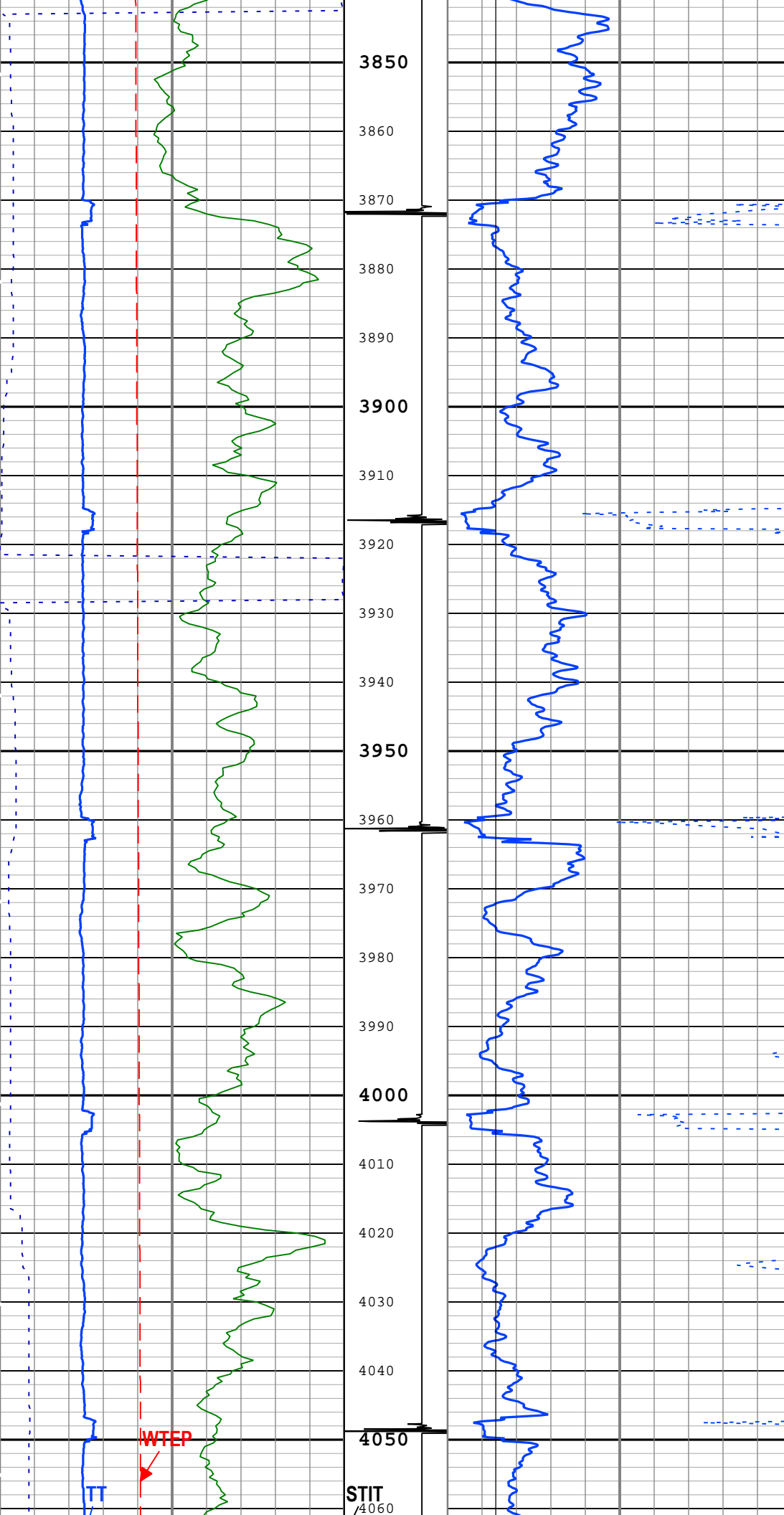


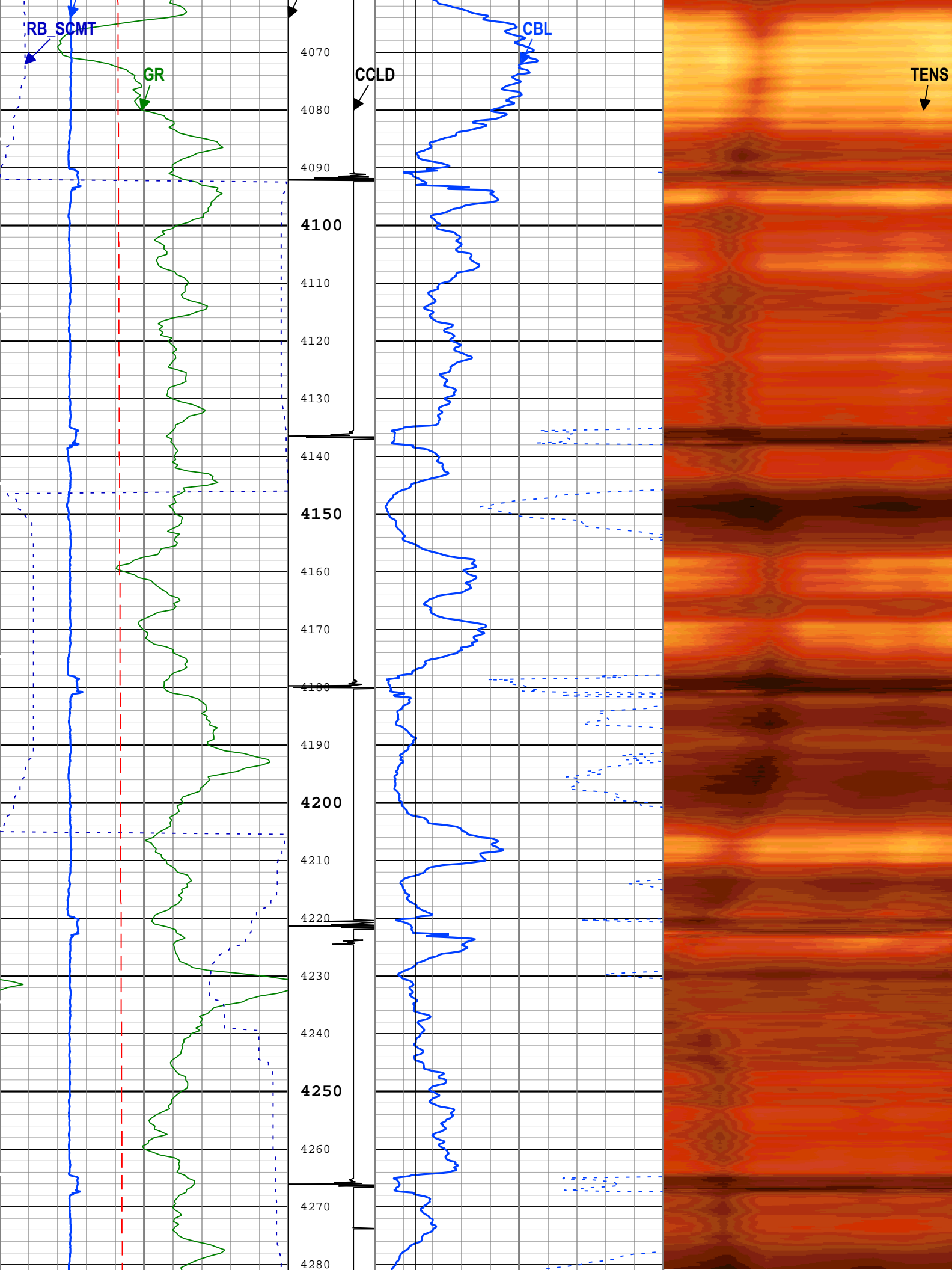


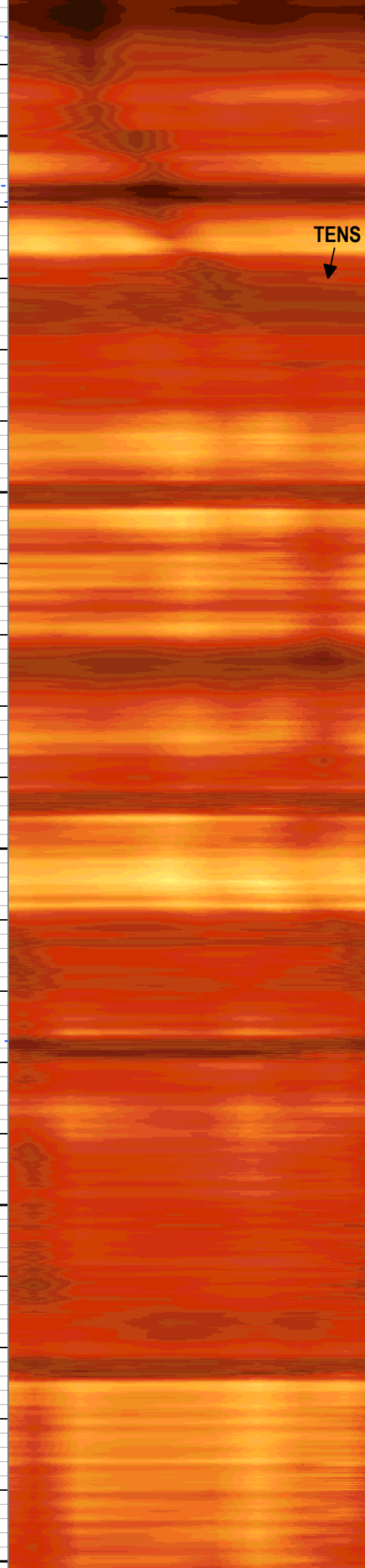
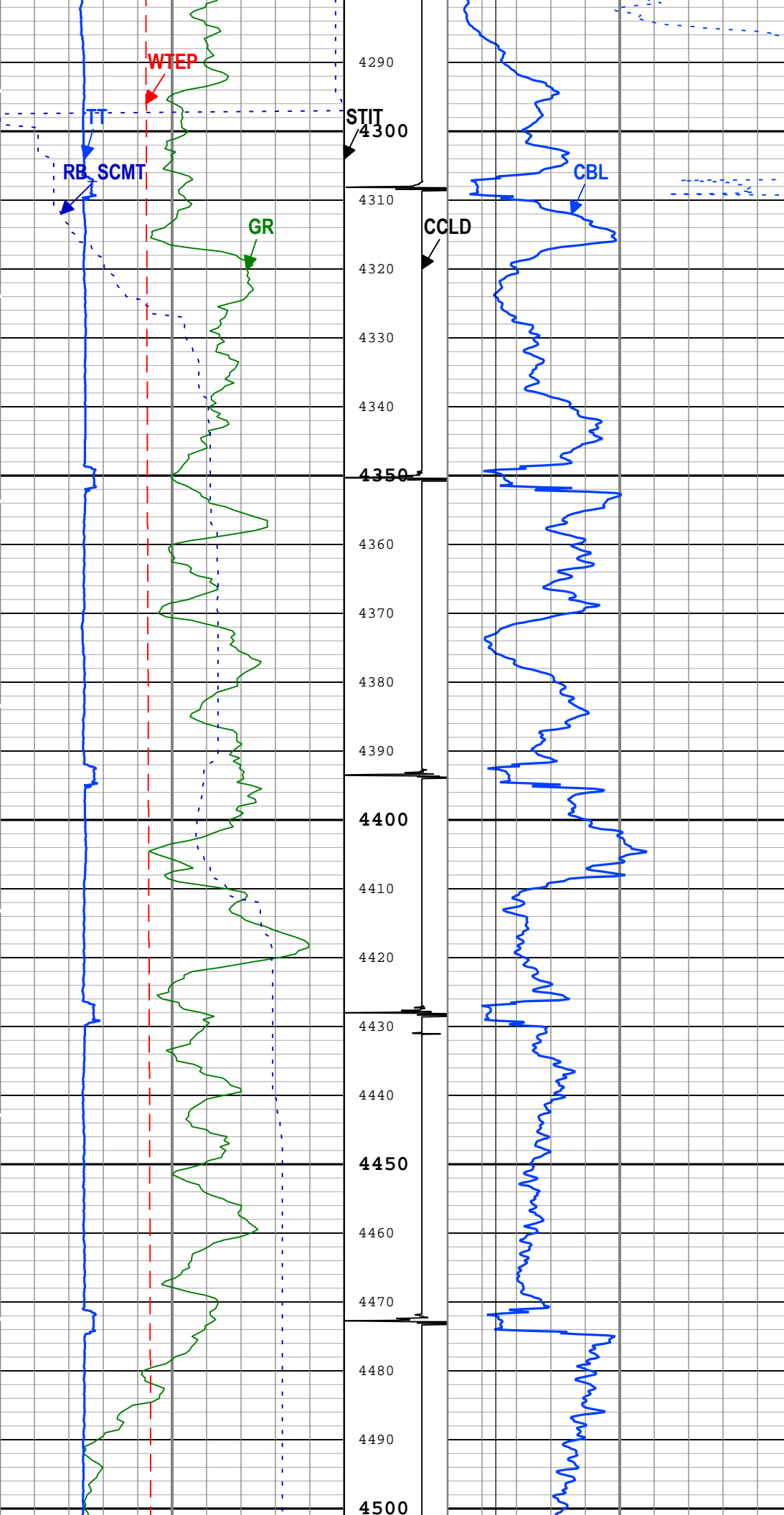


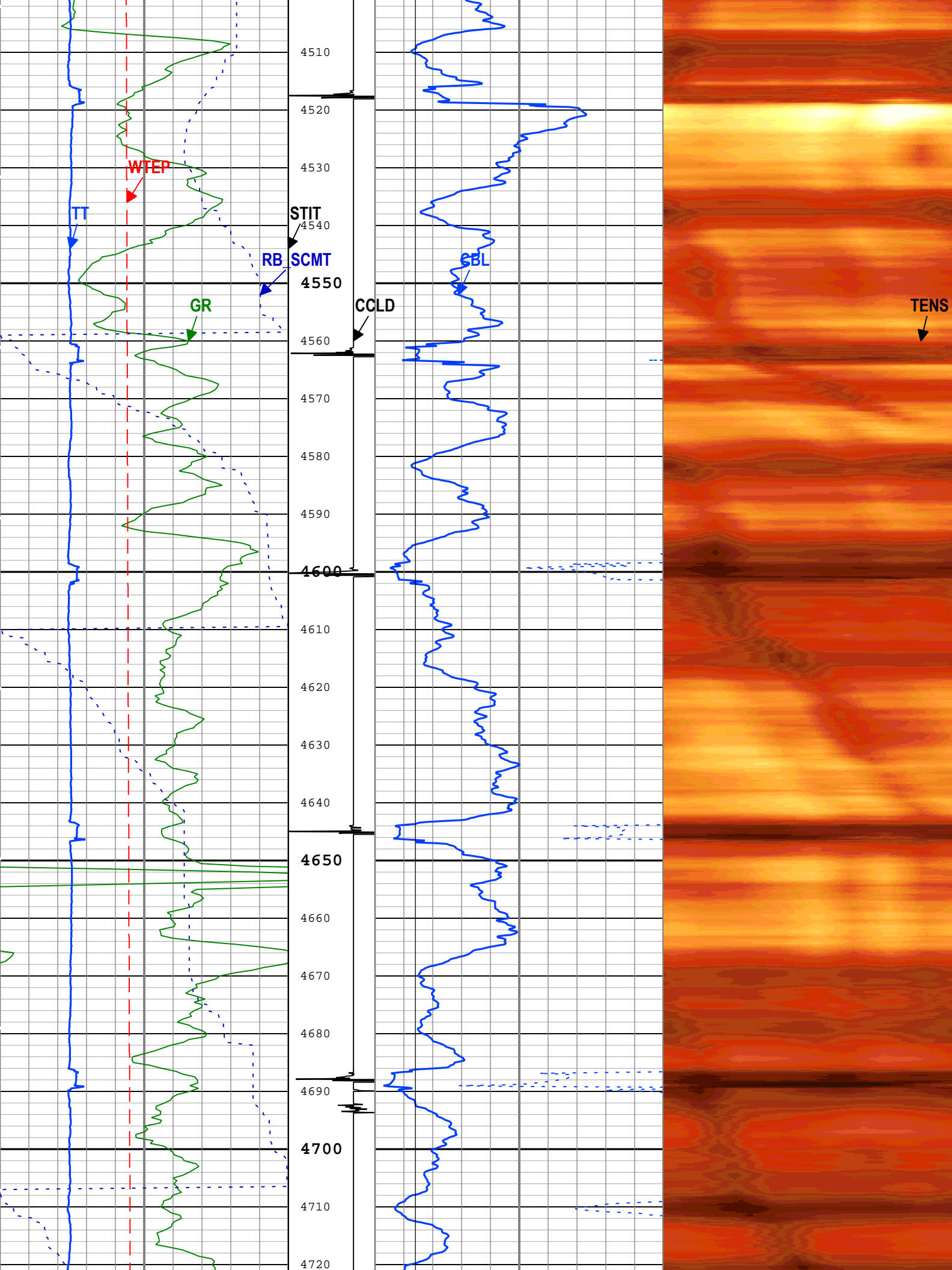


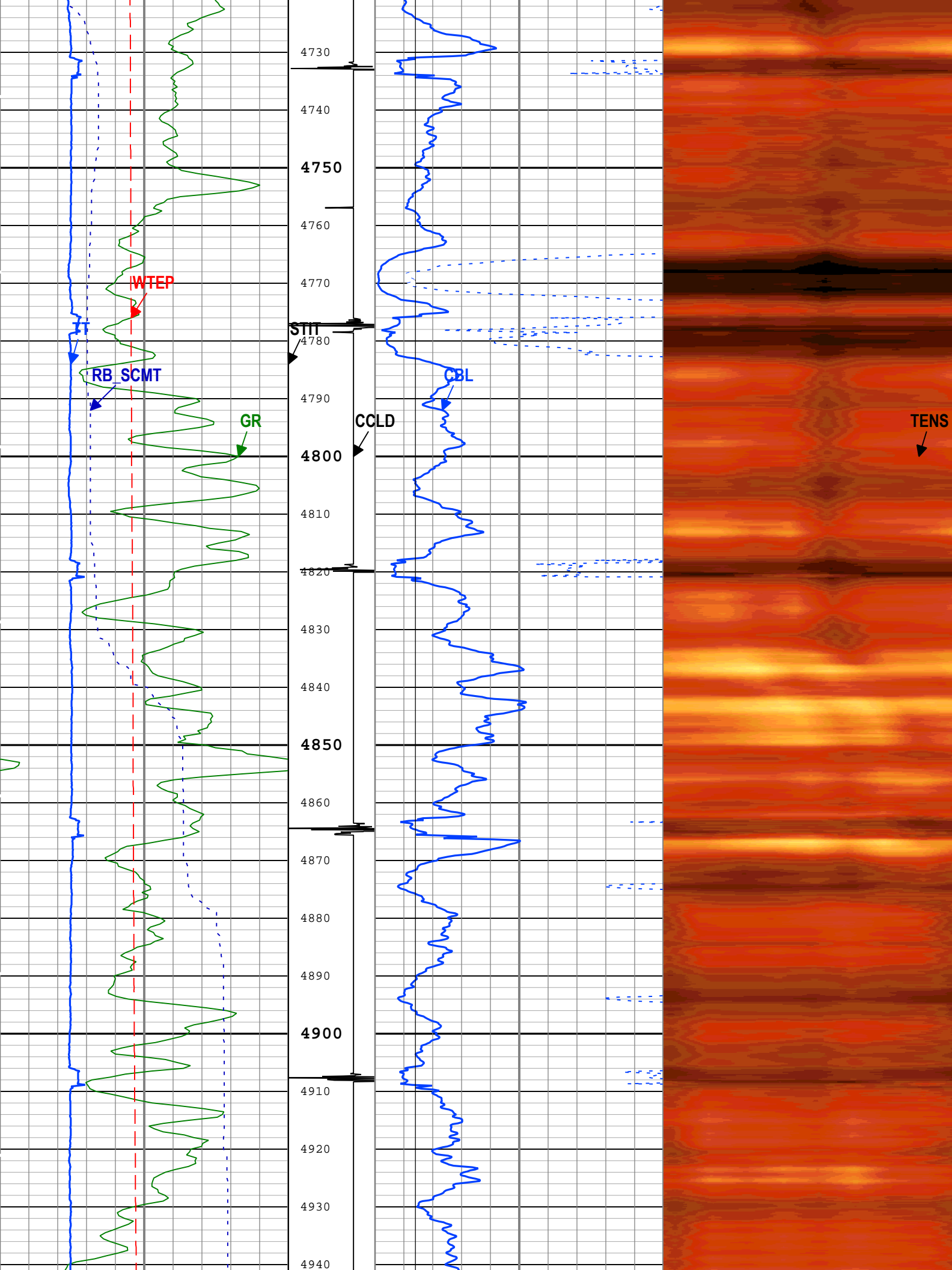


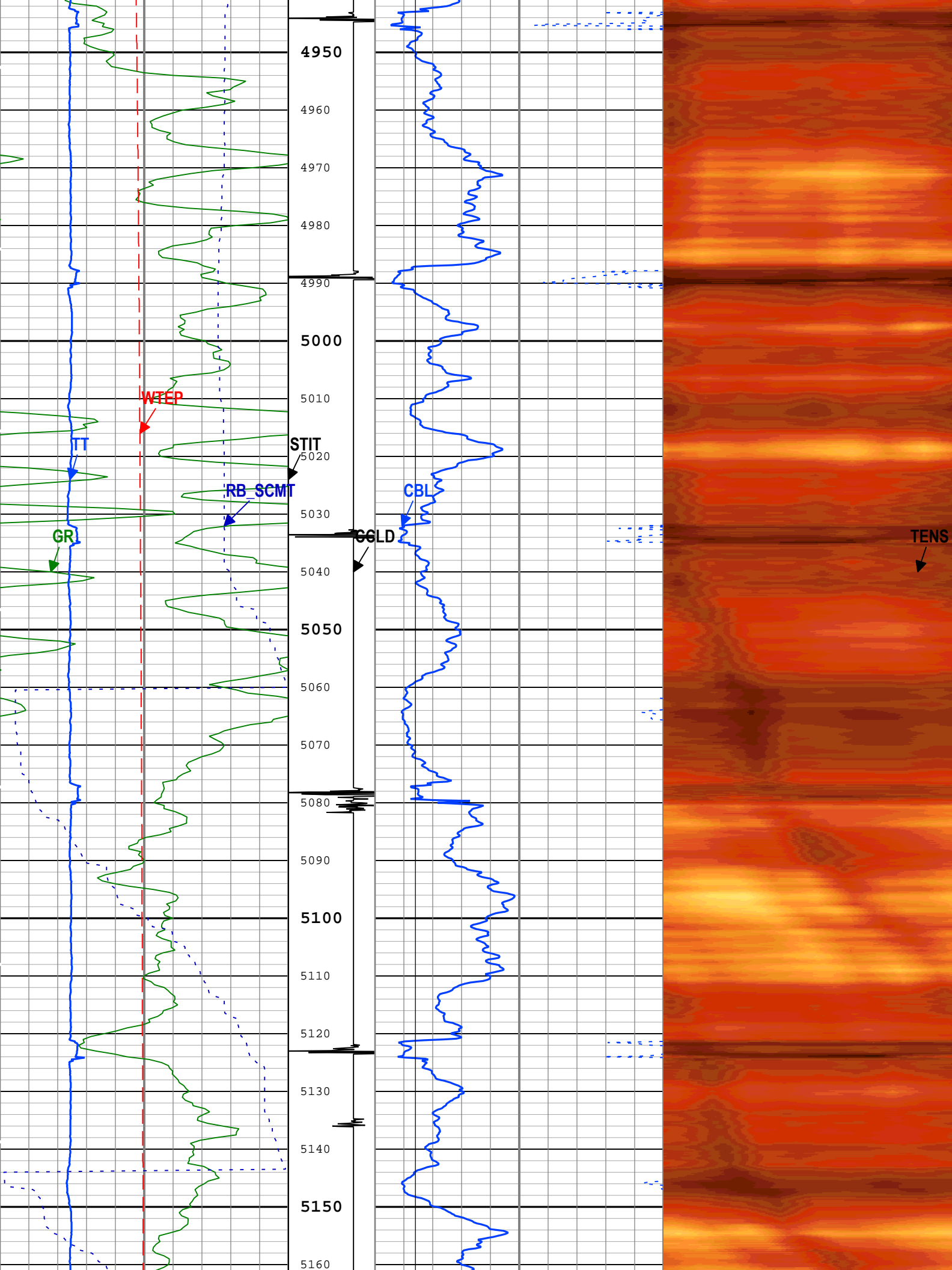


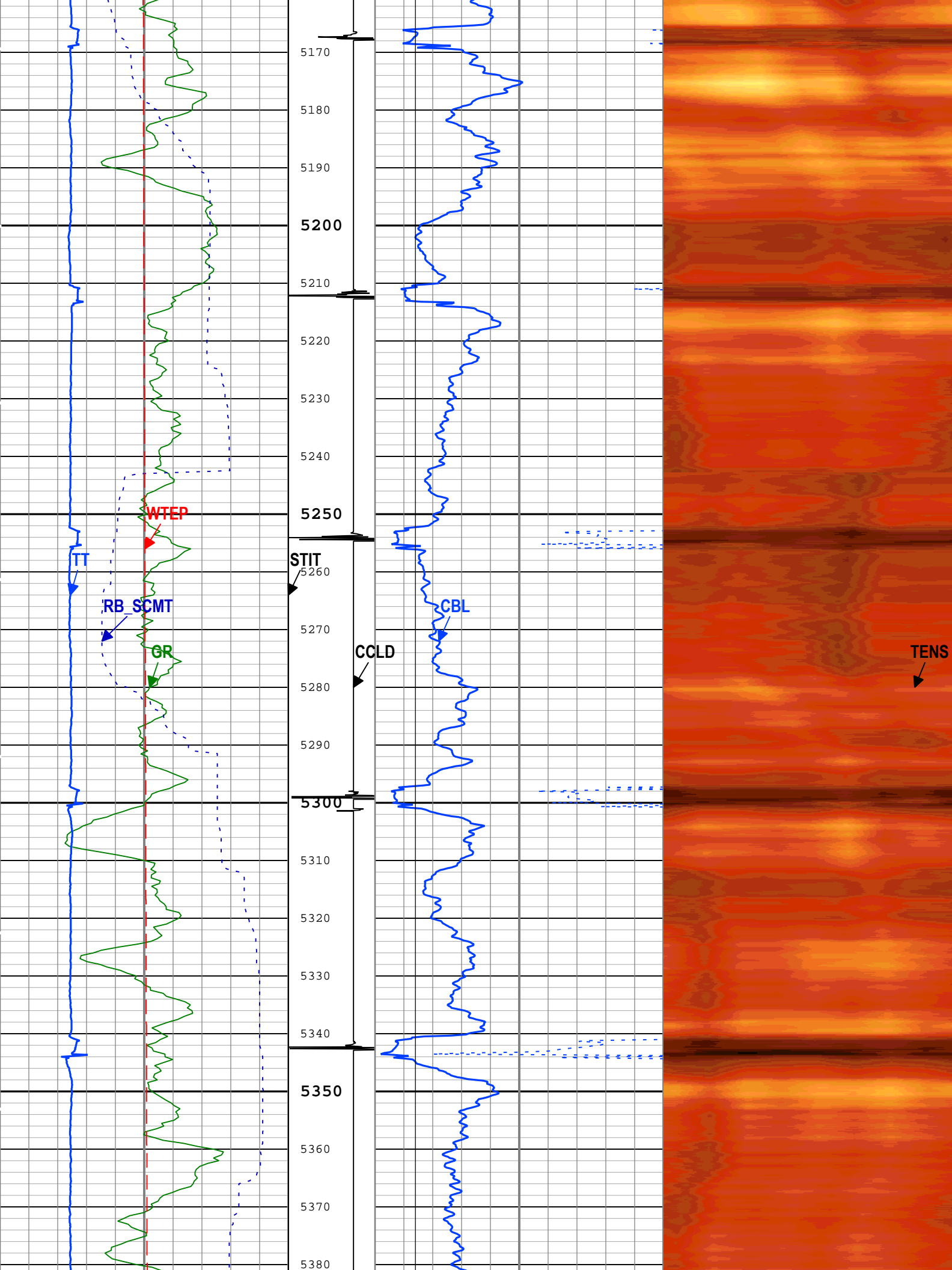


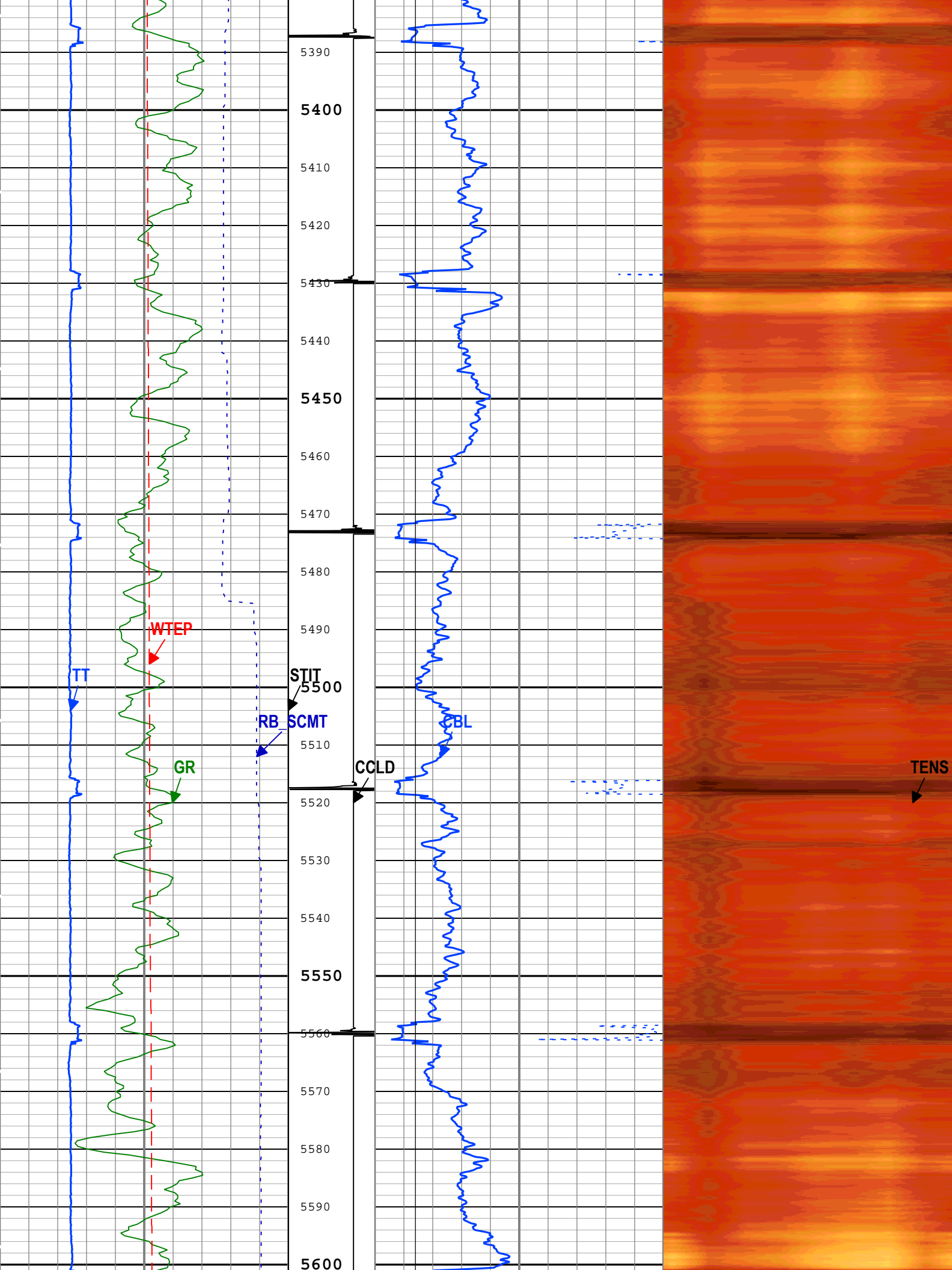


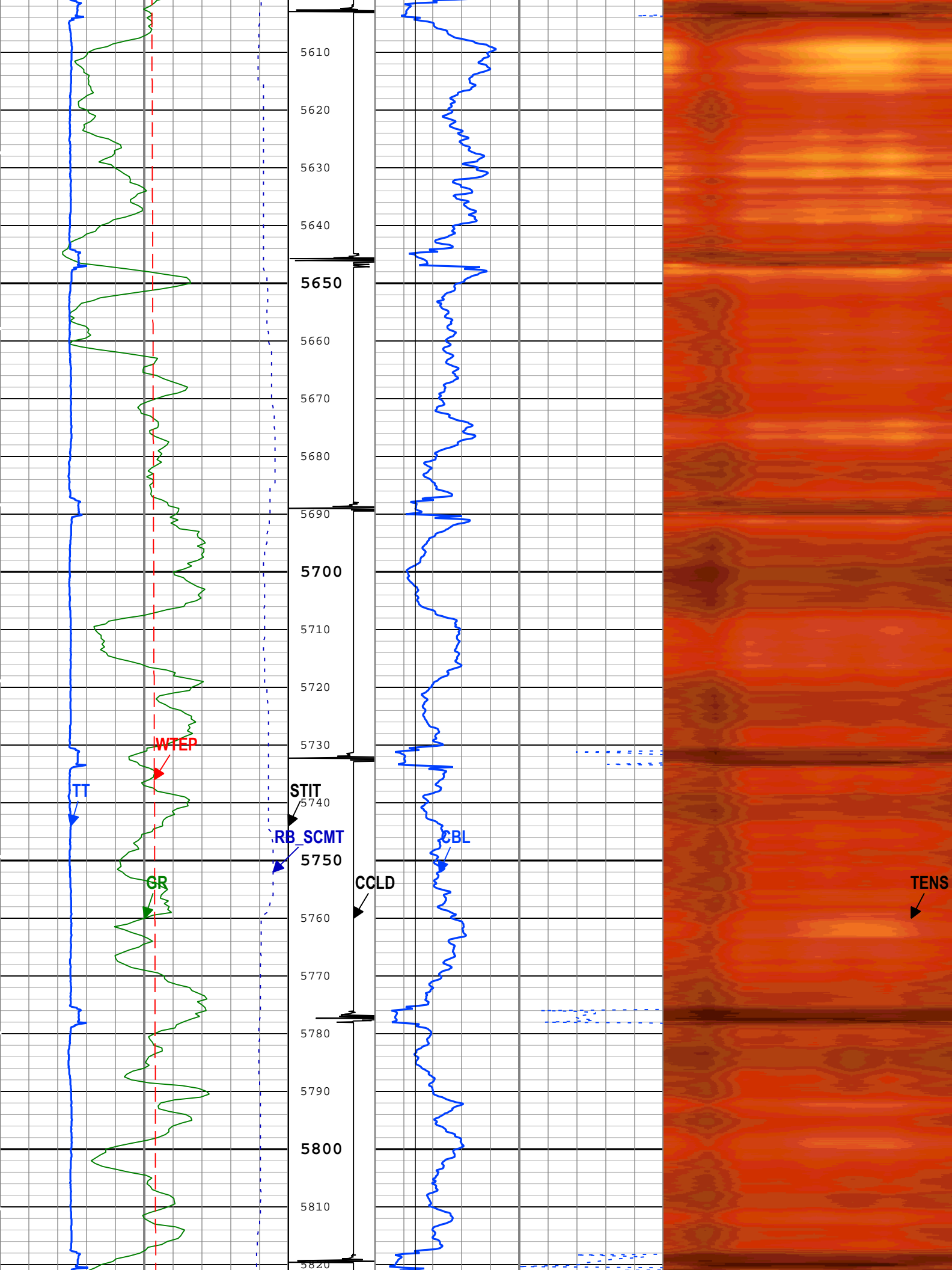


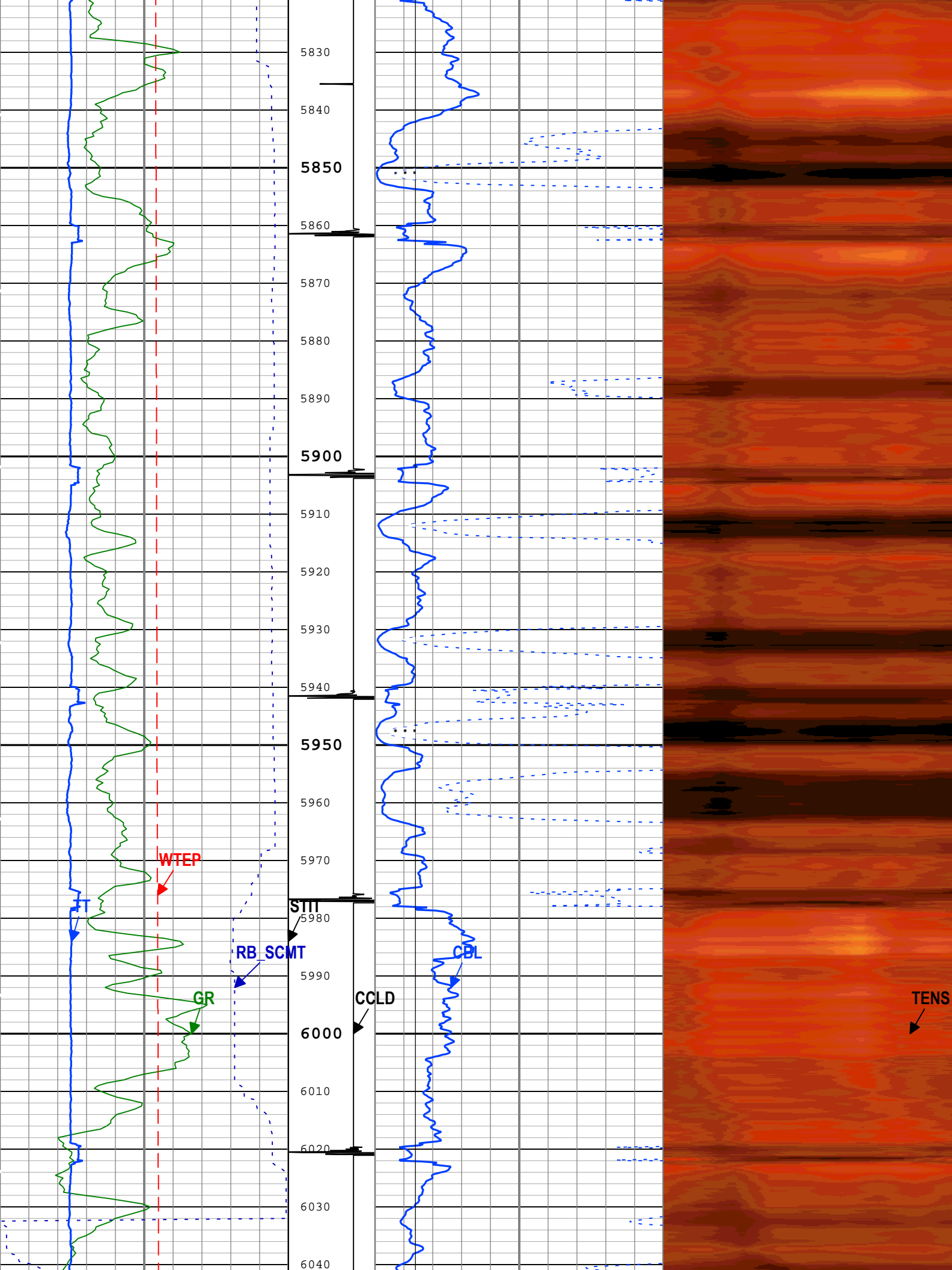


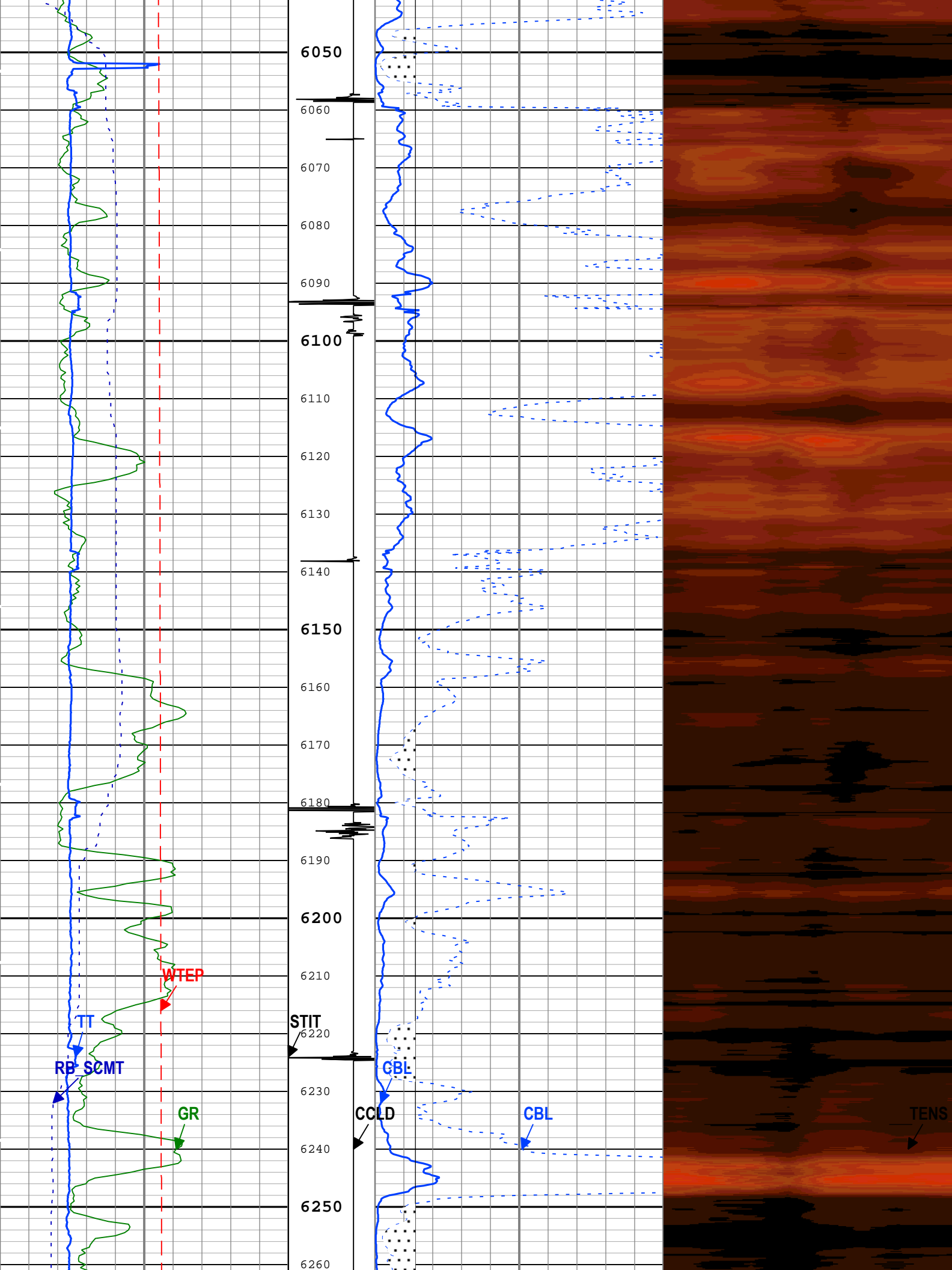


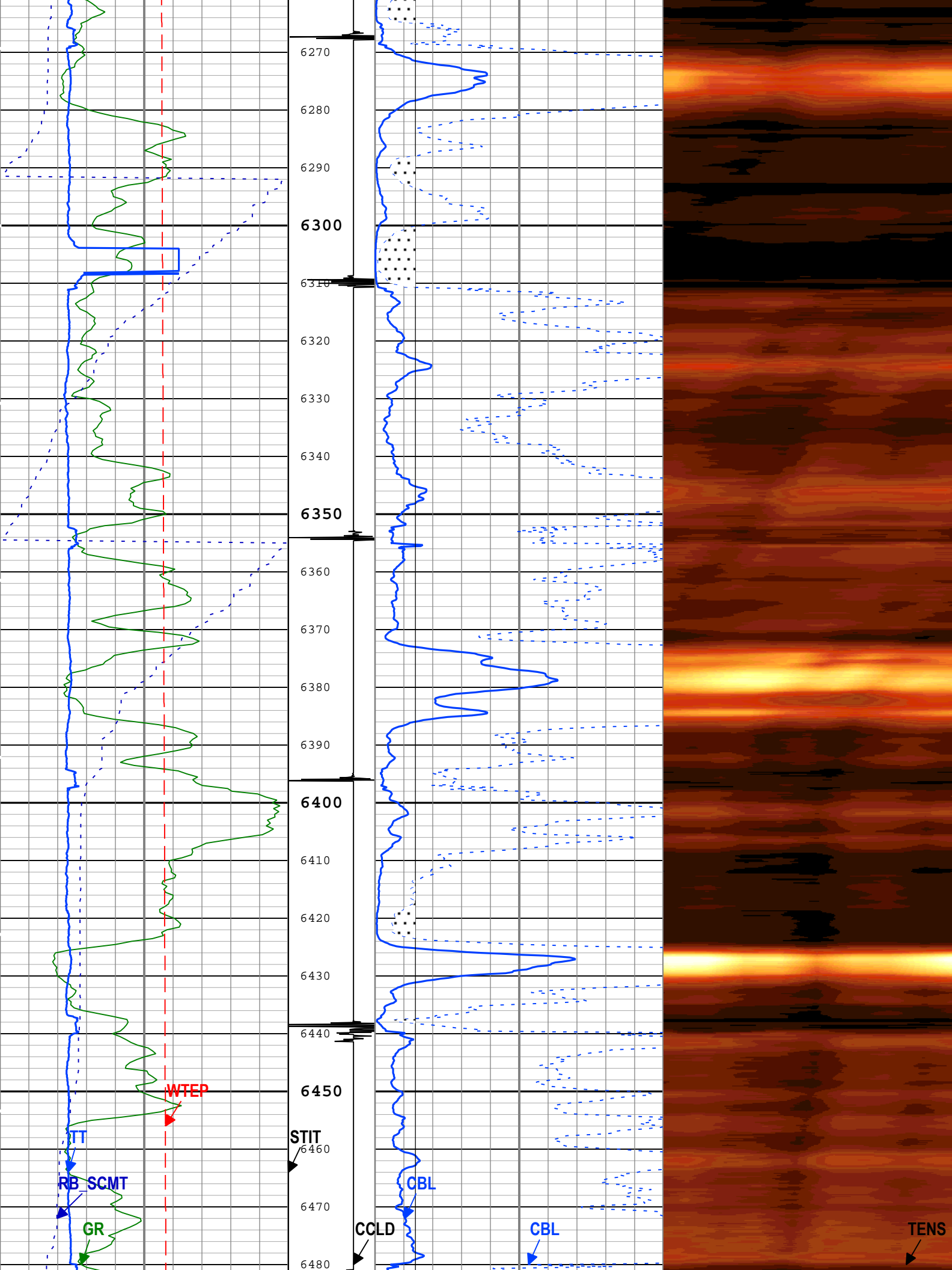


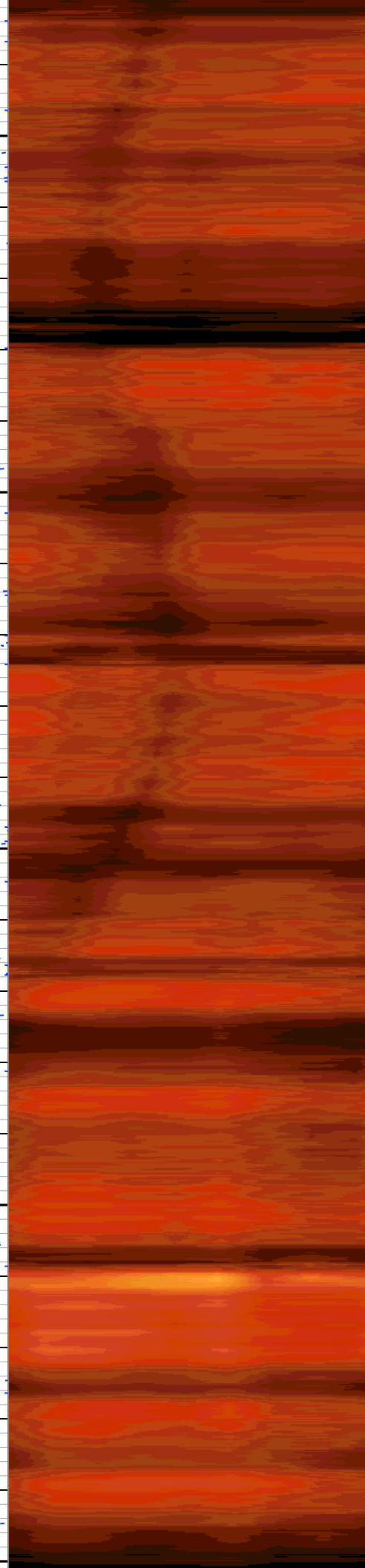
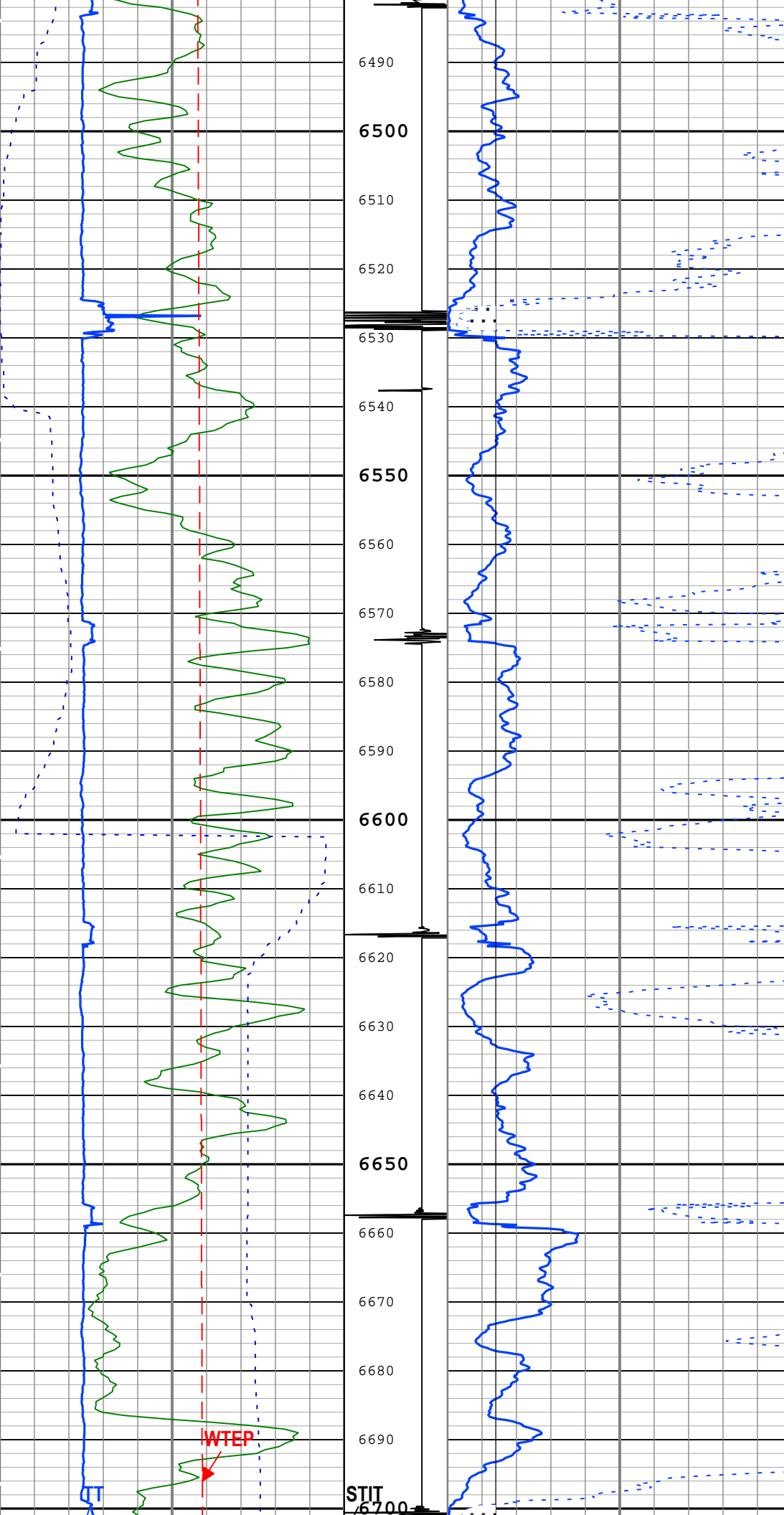


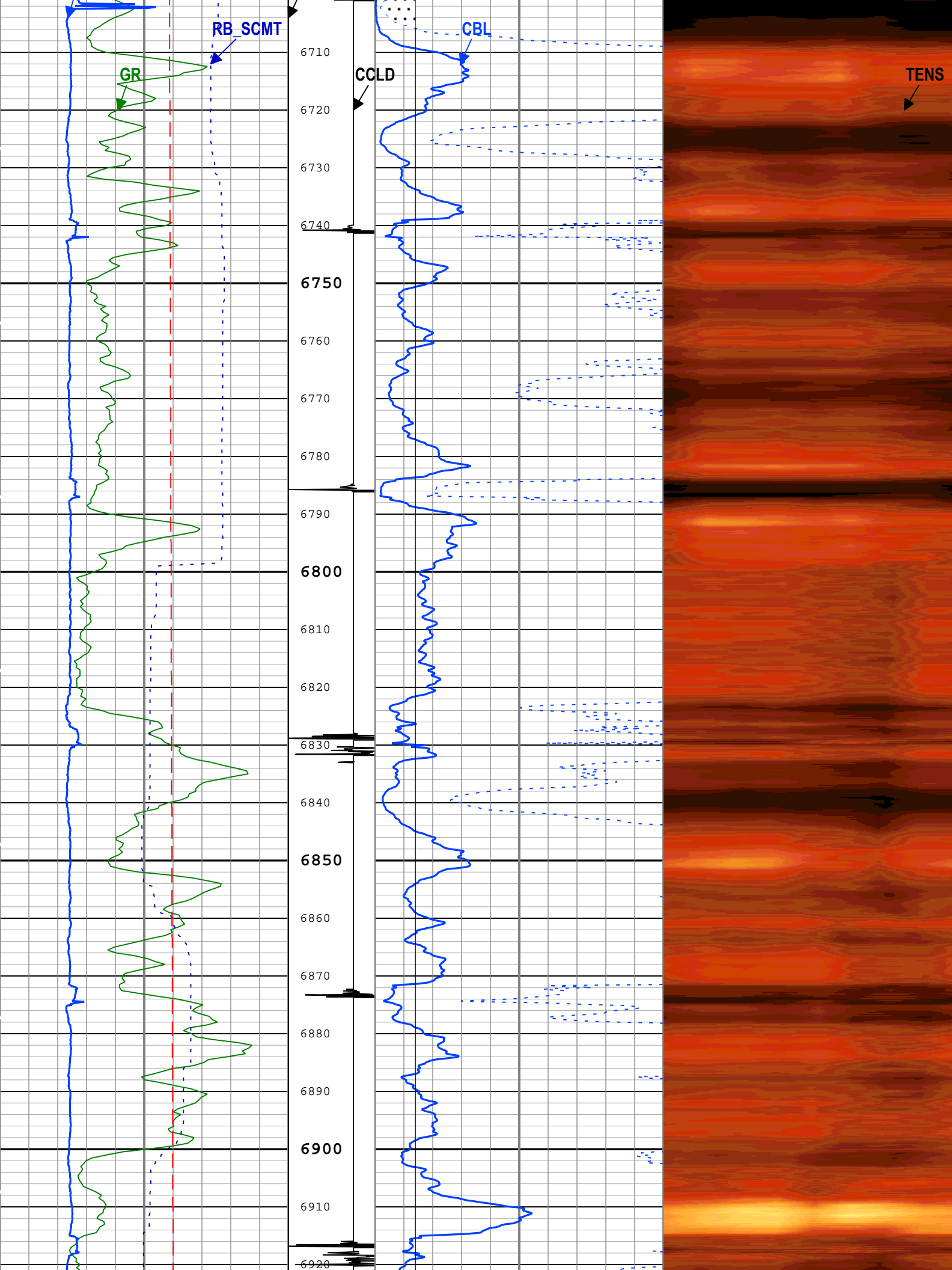


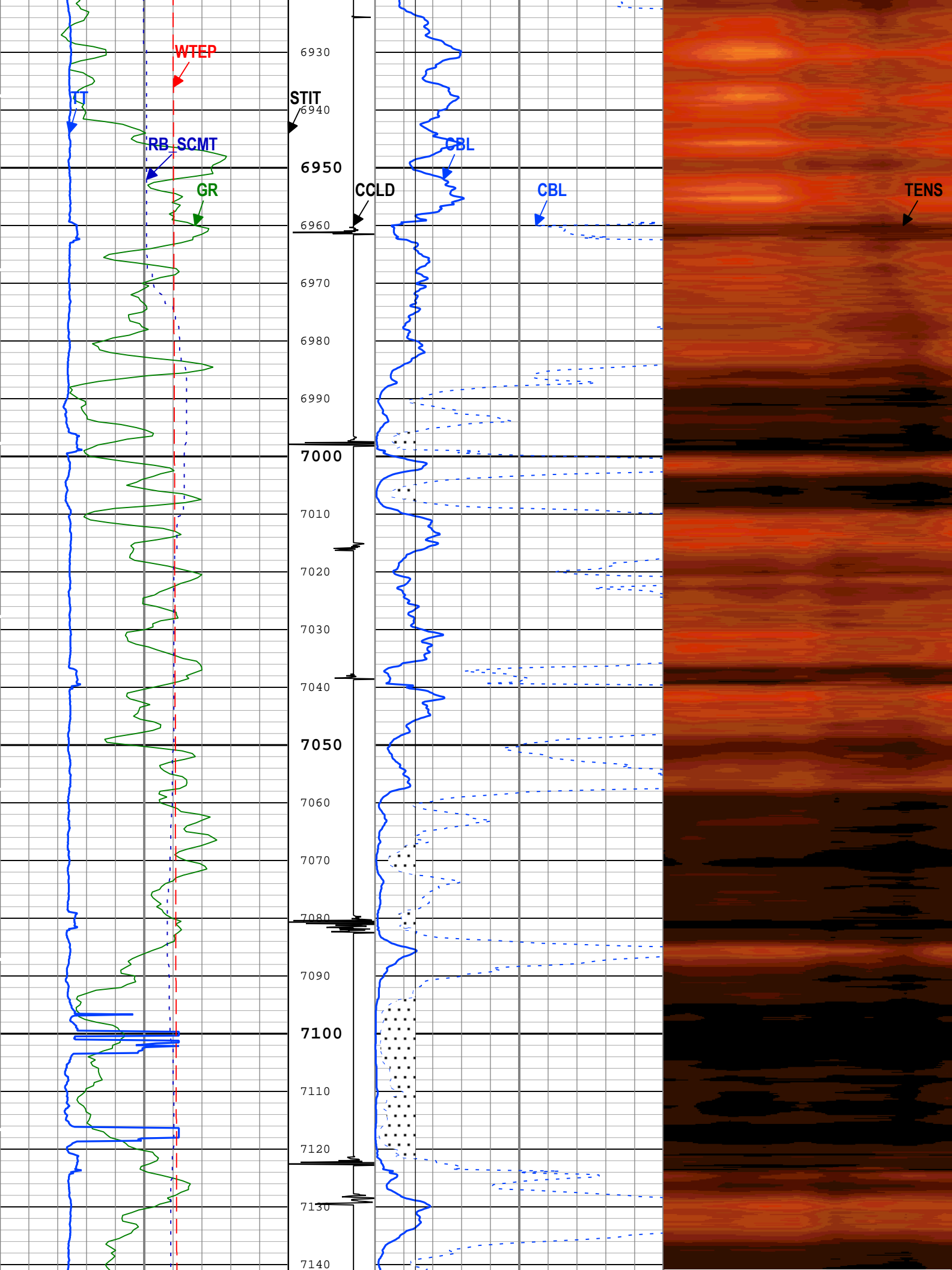


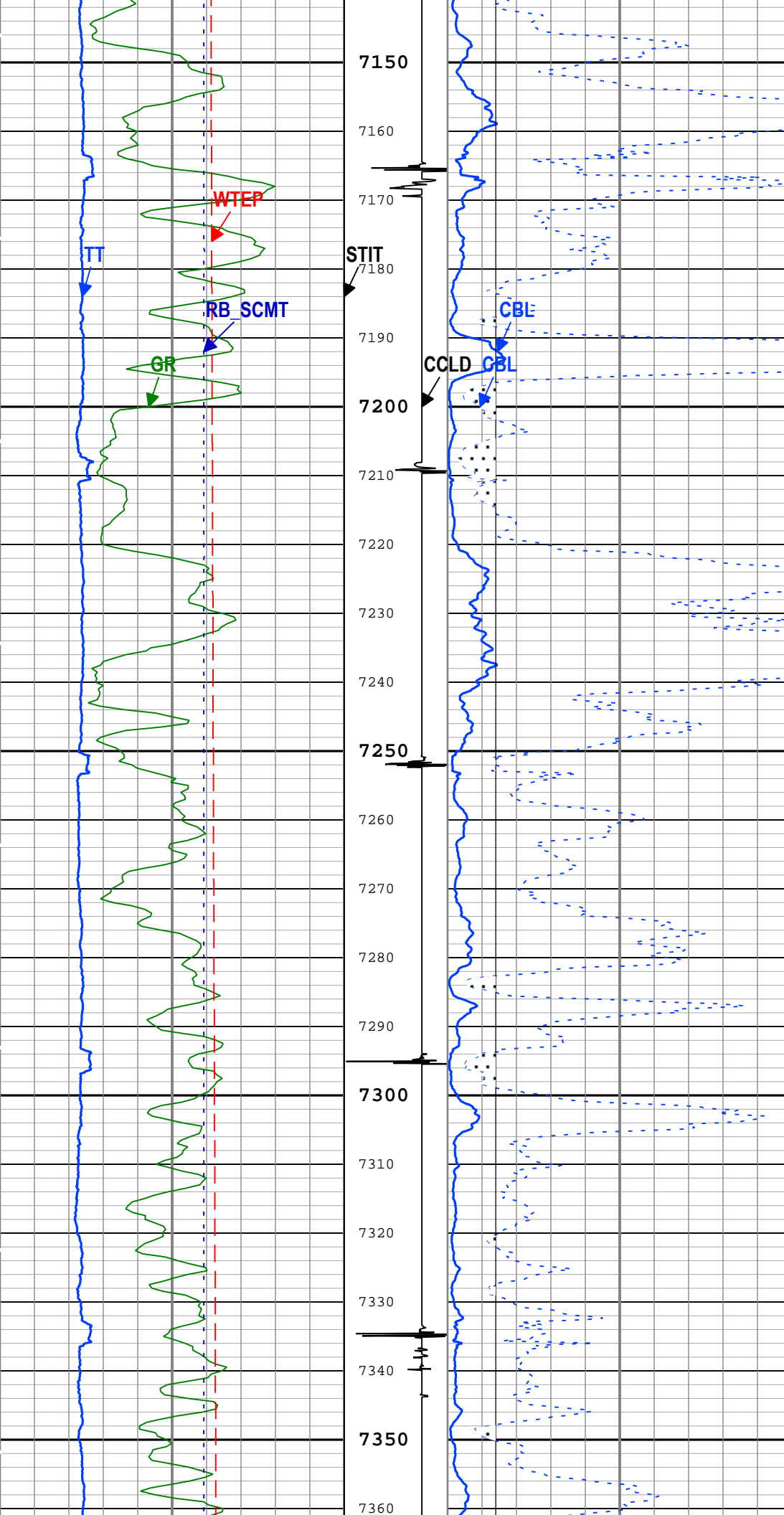


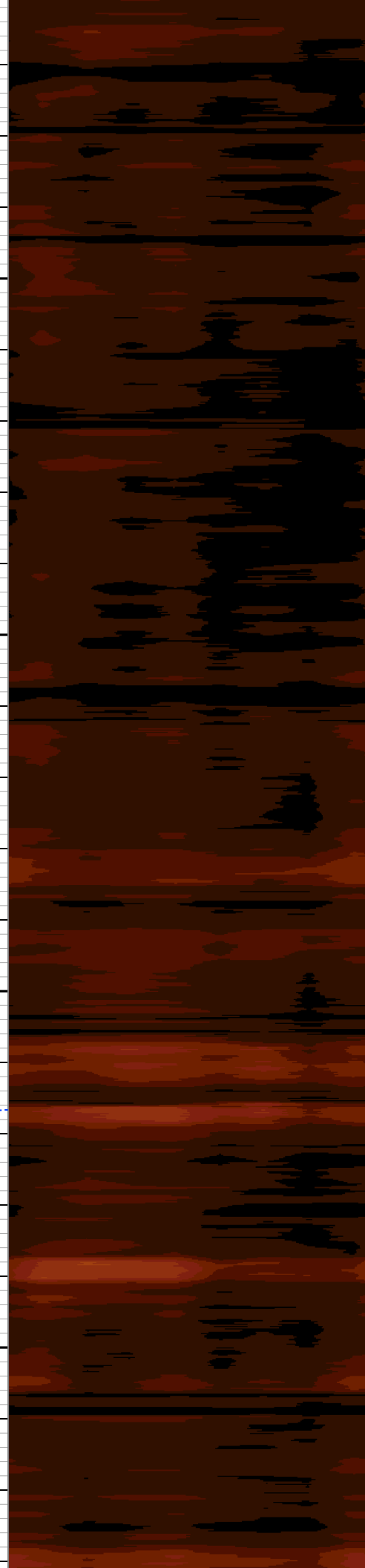
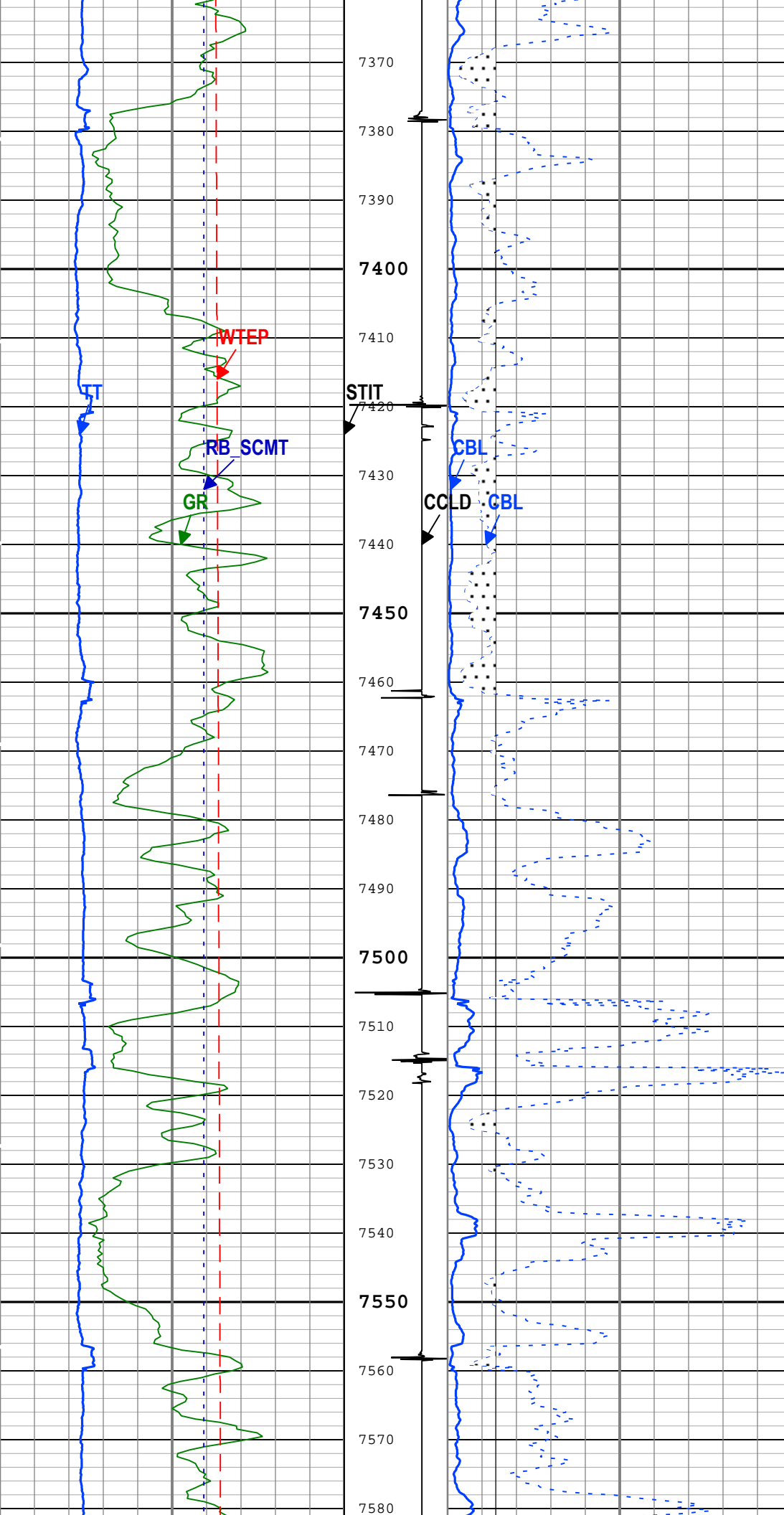


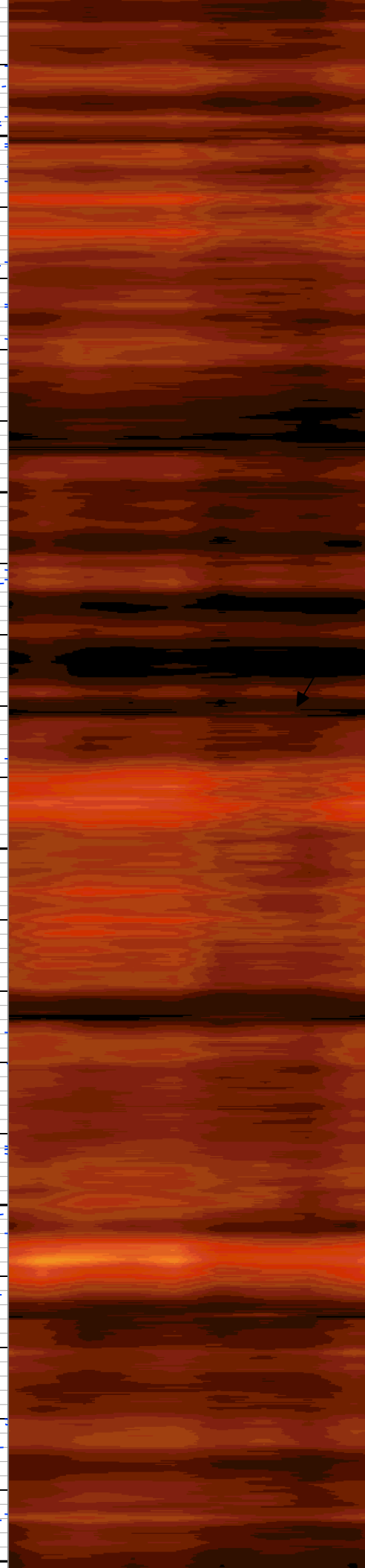
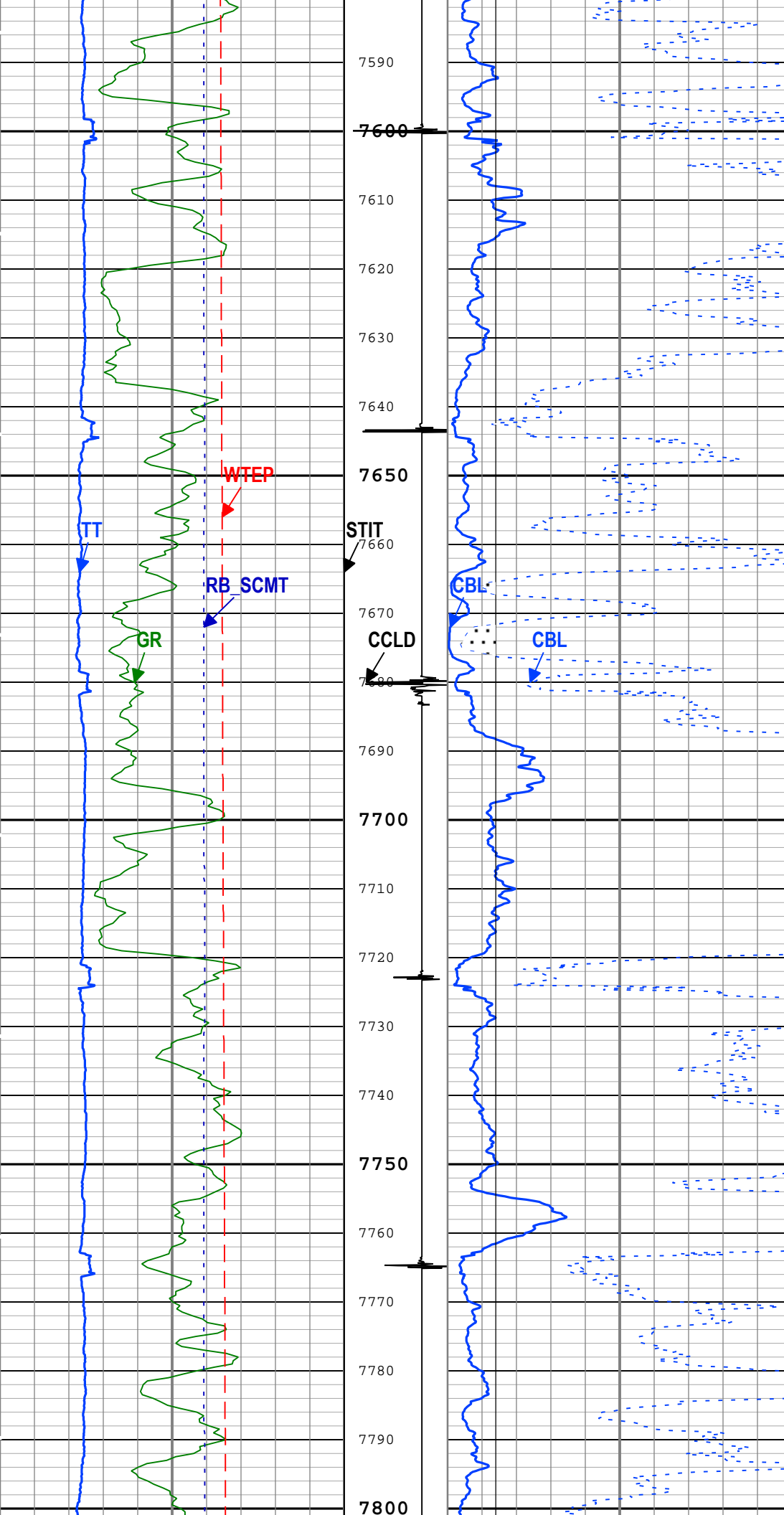


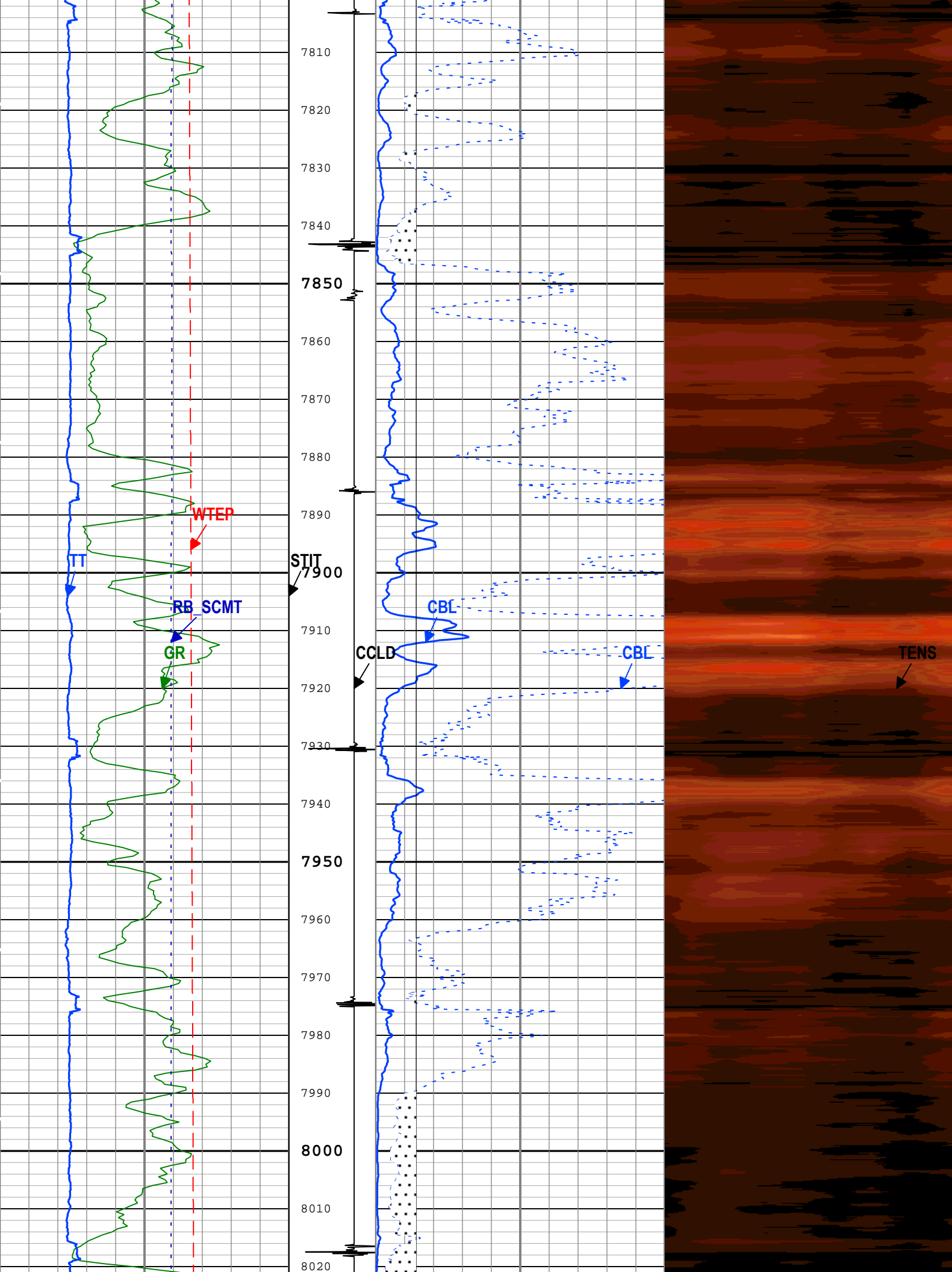


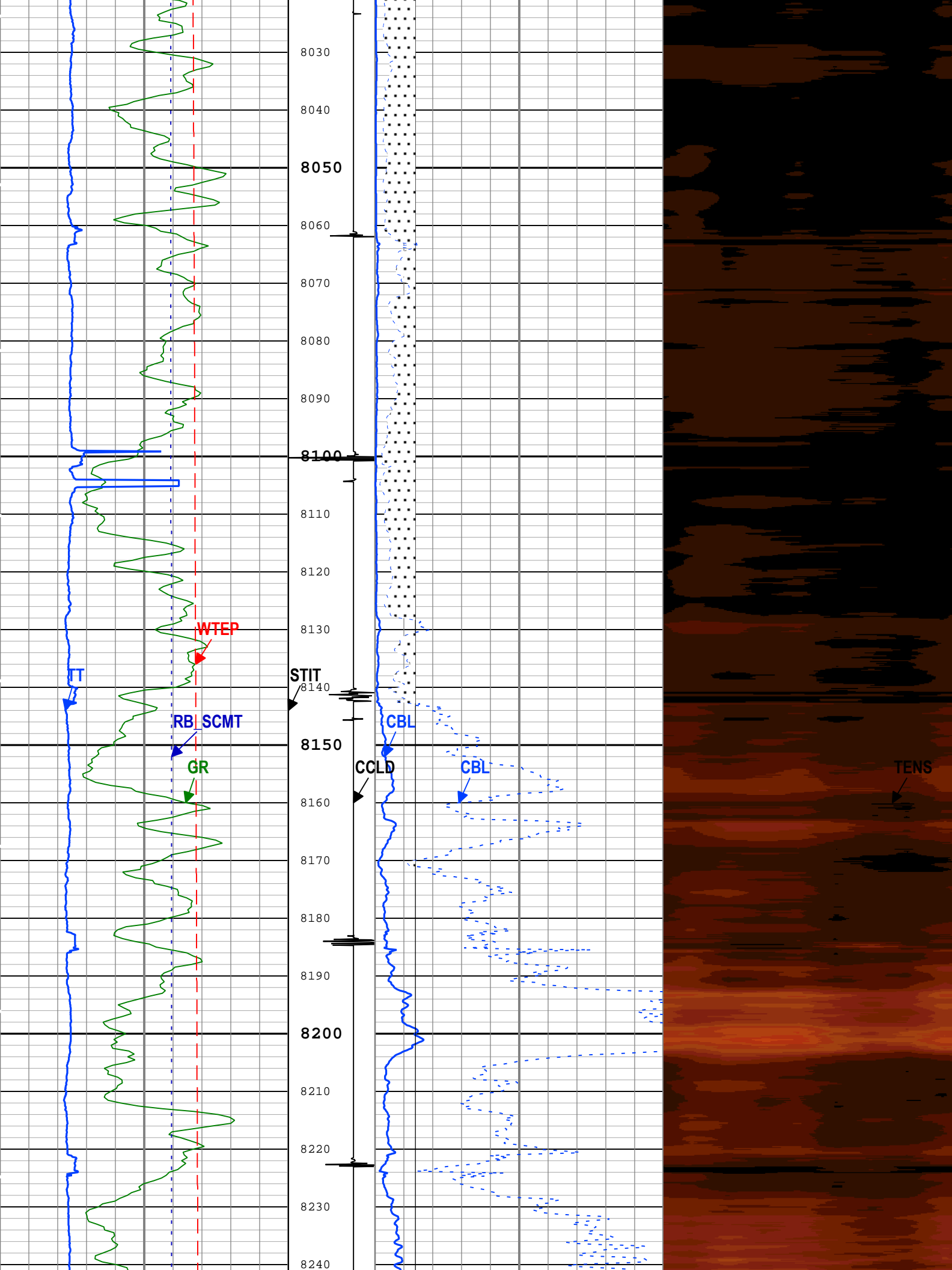


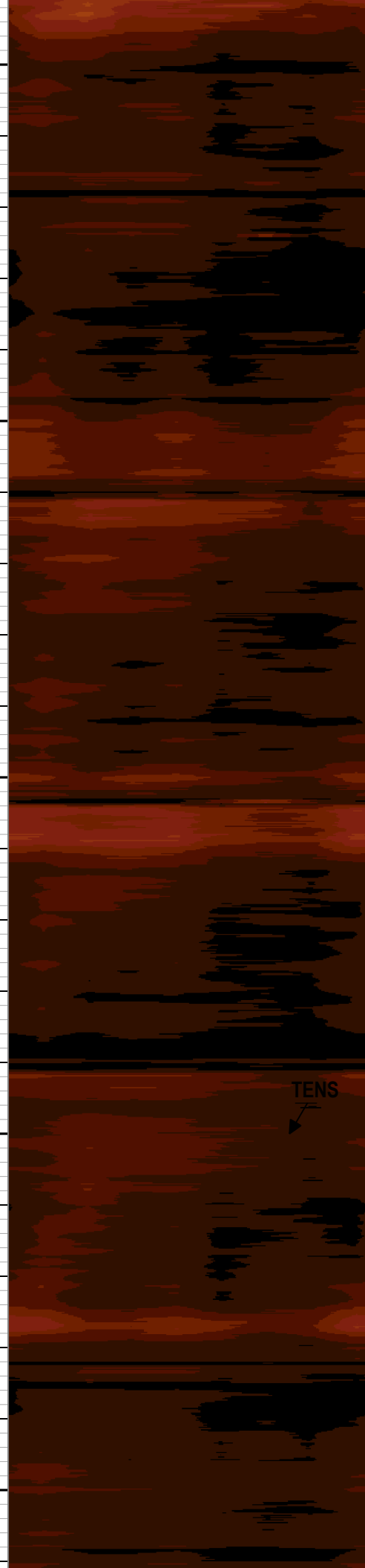
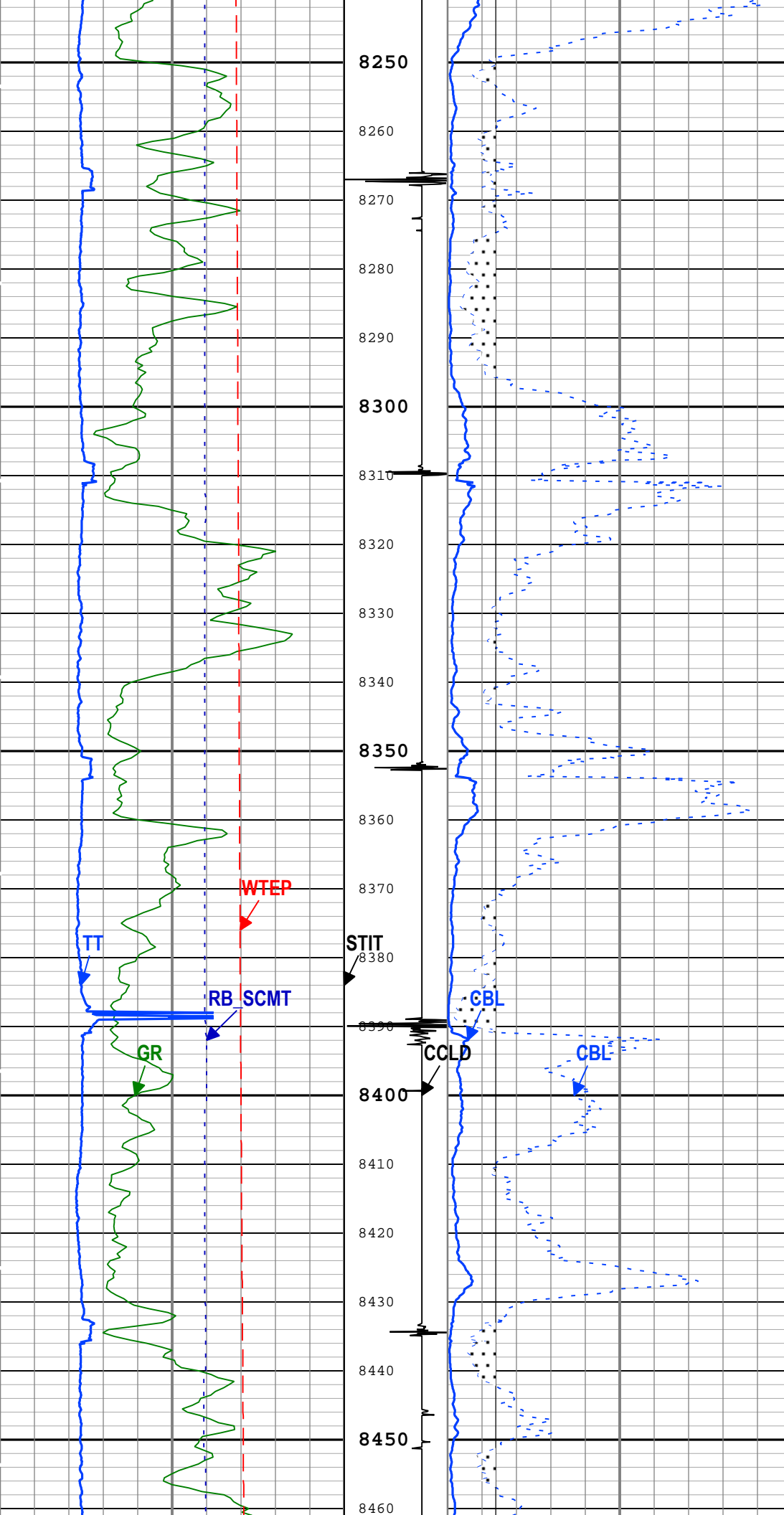


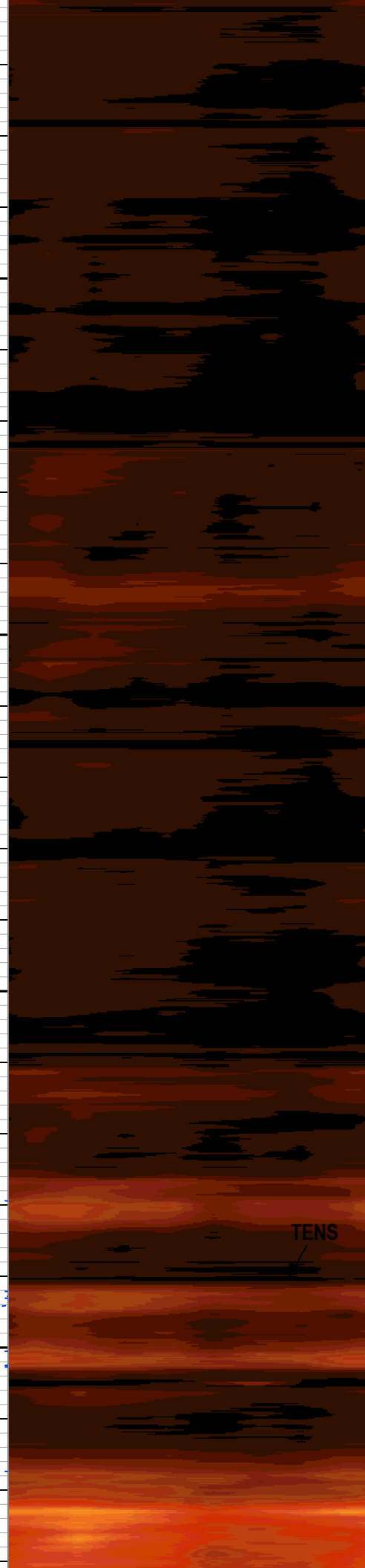
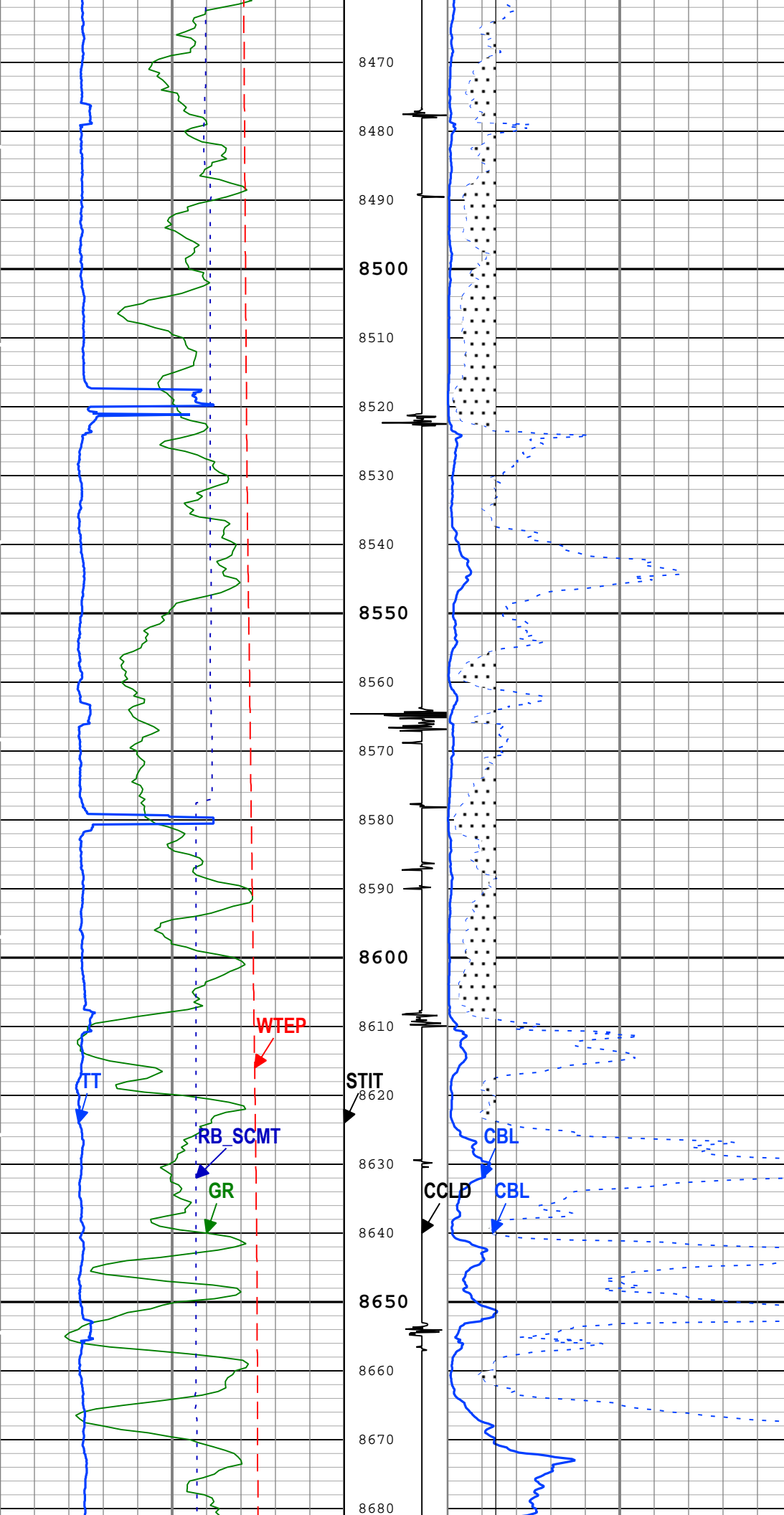


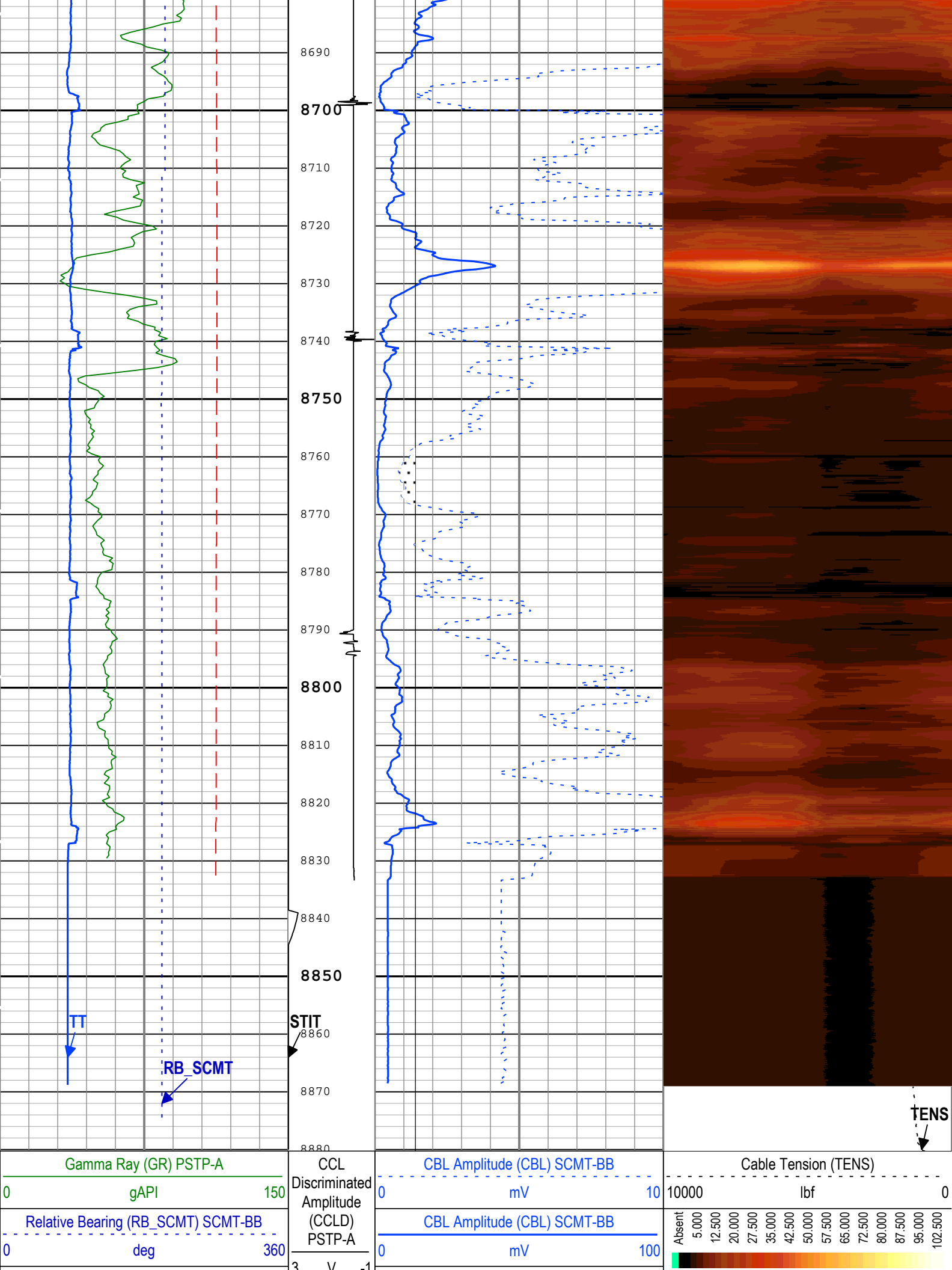


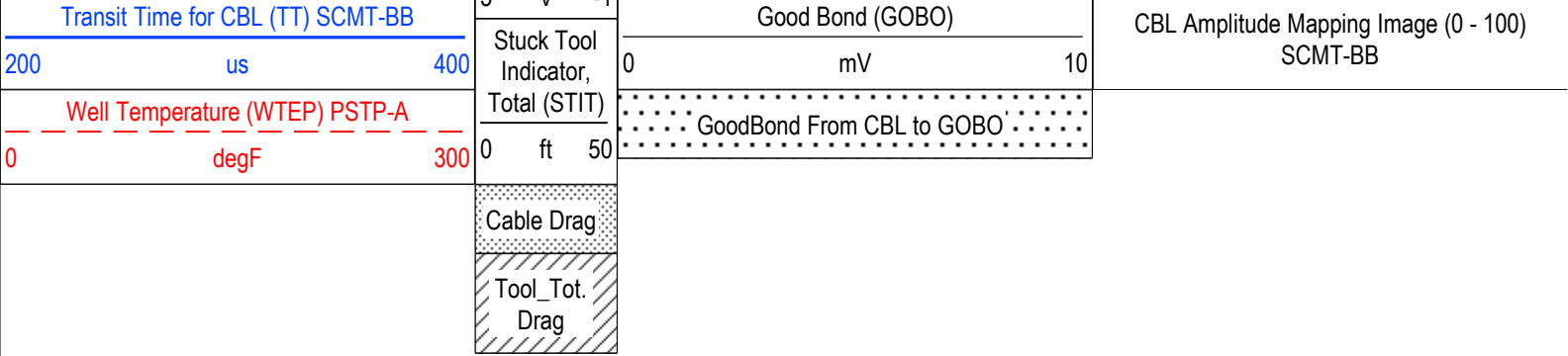












TIME_1900 - Time Marked every 60.00 (s)

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: 05-Aug-2015 18:20:20

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	225	degF
CB3D	SCMT CBL 3 ft Peak Detection Mode	SCMT-BB	Peak	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-BB	224	us
CB3T	SCMT CBL 3 ft Fixed Threshold Level	SCMT-BB	20	mV
CBLG	CBL Gate Width	SCMT-BB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-BB	80	mV
CMCF	CBL Cement Type Compensation Factor	SCMT-BB	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
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8479	ft
ETEM	HP Estimated Temperature	PSTP-A	212	degF
FCF	CBL Fluid Compensation Factor	SCMT-BB	0.89	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST	
M1EF	MAP sensitivity equalization factor of receiver 1	SCMT-BB	1.16	
M2EF	MAP sensitivity equalization factor of receiver 2	SCMT-BB	1.89	
M3EF	MAP sensitivity equalization factor of receiver 3	SCMT-BB	1.43	
M4EF	MAP sensitivity equalization factor of receiver 4	SCMT-BB	0.64	
M5EF	MAP sensitivity equalization factor of receiver 5	SCMT-BB	0.54	
M6EF	MAP sensitivity equalization factor of receiver 6	SCMT-BB	0.64	
M7EF	MAP sensitivity equalization factor of receiver 7	SCMT-BB	0.97	
M8EF	MAP sensitivity equalization factor of receiver 8	SCMT-BB	1.22	
MAPD	SCMT MAP Peak Detection Mode	SCMT-BB	Peak	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-BB	167	us
MAPT	SCMT MAP Fixed Threshold Level	SCMT-BB	30	mV
MCCF	MAP Cement Type Compensation Factor	SCMT-BB	0.25	
MMSA	MAP Minimum Sonic Amplitude	SCMT-BB	3.98	mV
MSA	Minimum Sonic Amplitude	SCMT-BB	0.51	mV
PTCO	PBMS Pressure Temperature Correction Option	PSTP-A	Gauge Temperature	
PDAT	Permanent Datum	WLSESSION	GL	
RBC	Relative Bearing Correction Allow/Disallow	SCMT-BB	Allow	

RUN_SNUM	Run Sequence Number	WSDRUN	1	
SHT	Surface Hole Temperature	Borehole	68	degF

Tool Control Parameters

ONE: Parameters

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

ONE

Repeat Pass 0 PSI

Software Version

Acquisition System	Version
Maxwell 2016	6.0.47569.3100

Pass Summary

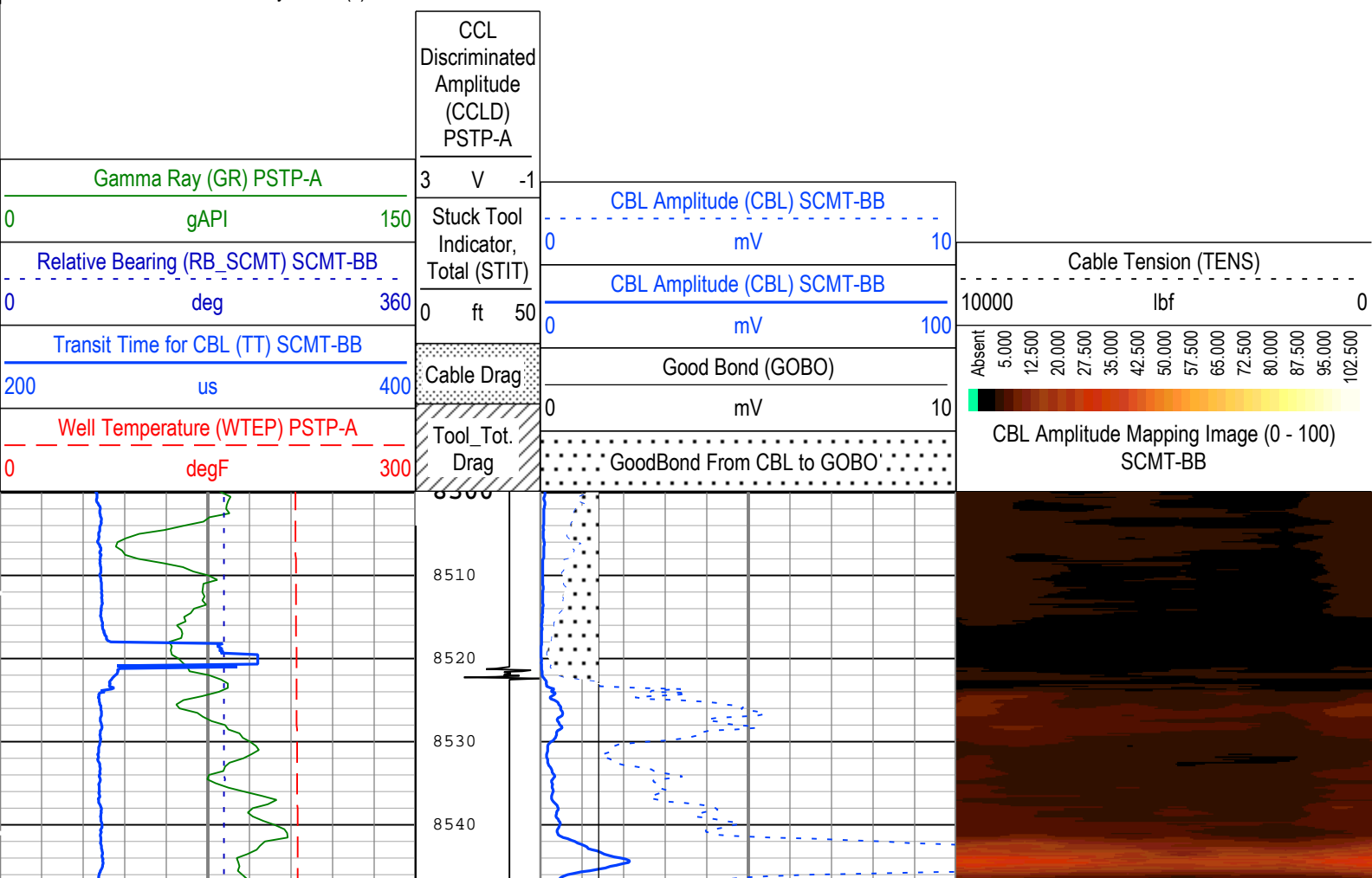
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[2]:Up	Up	8503.72 ft	8862.37 ft	24-Jul-2015 2:40:43 PM	24-Jul-2015 2:53:23 PM	ON	3.91 ft	Yes

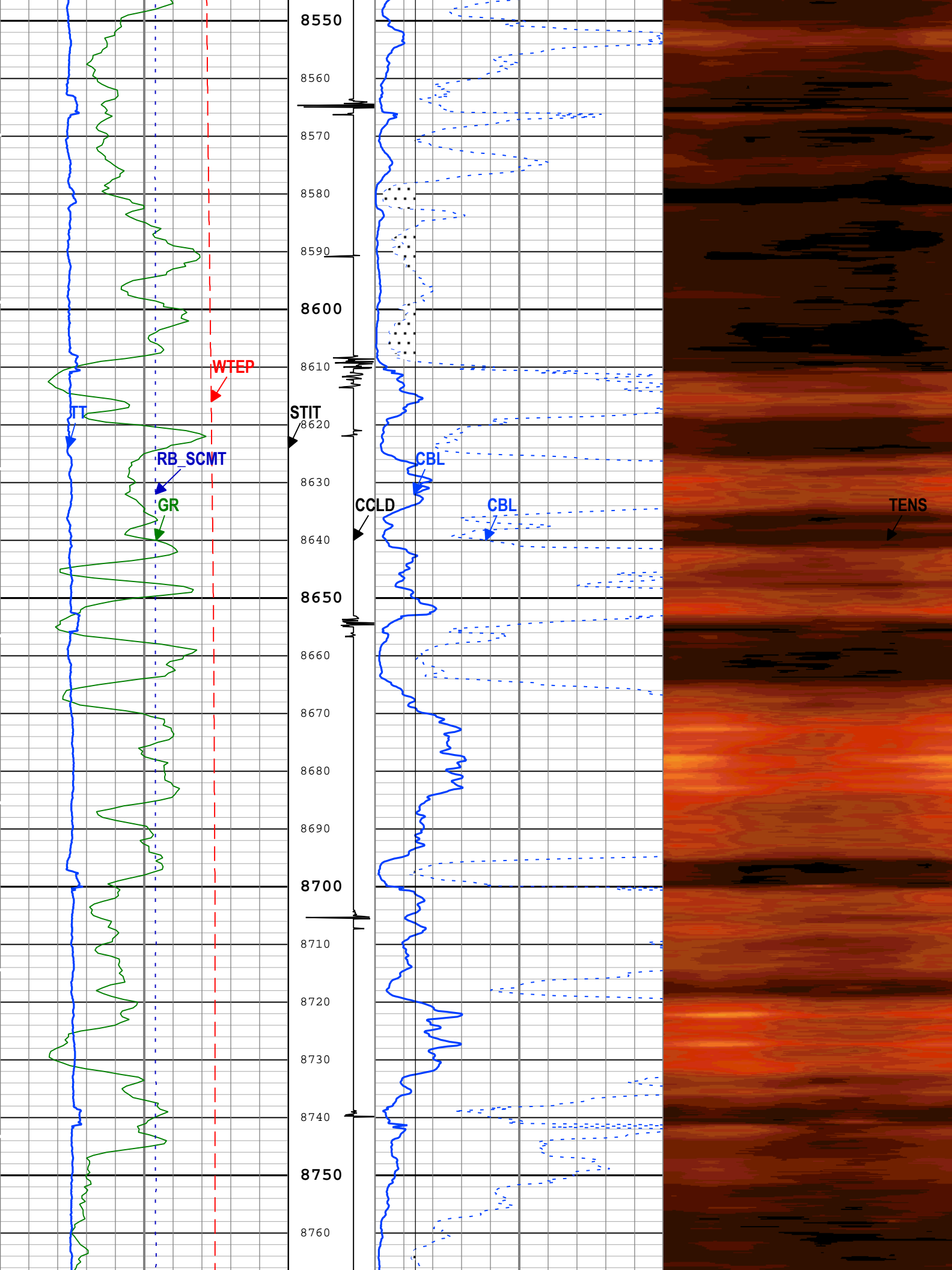
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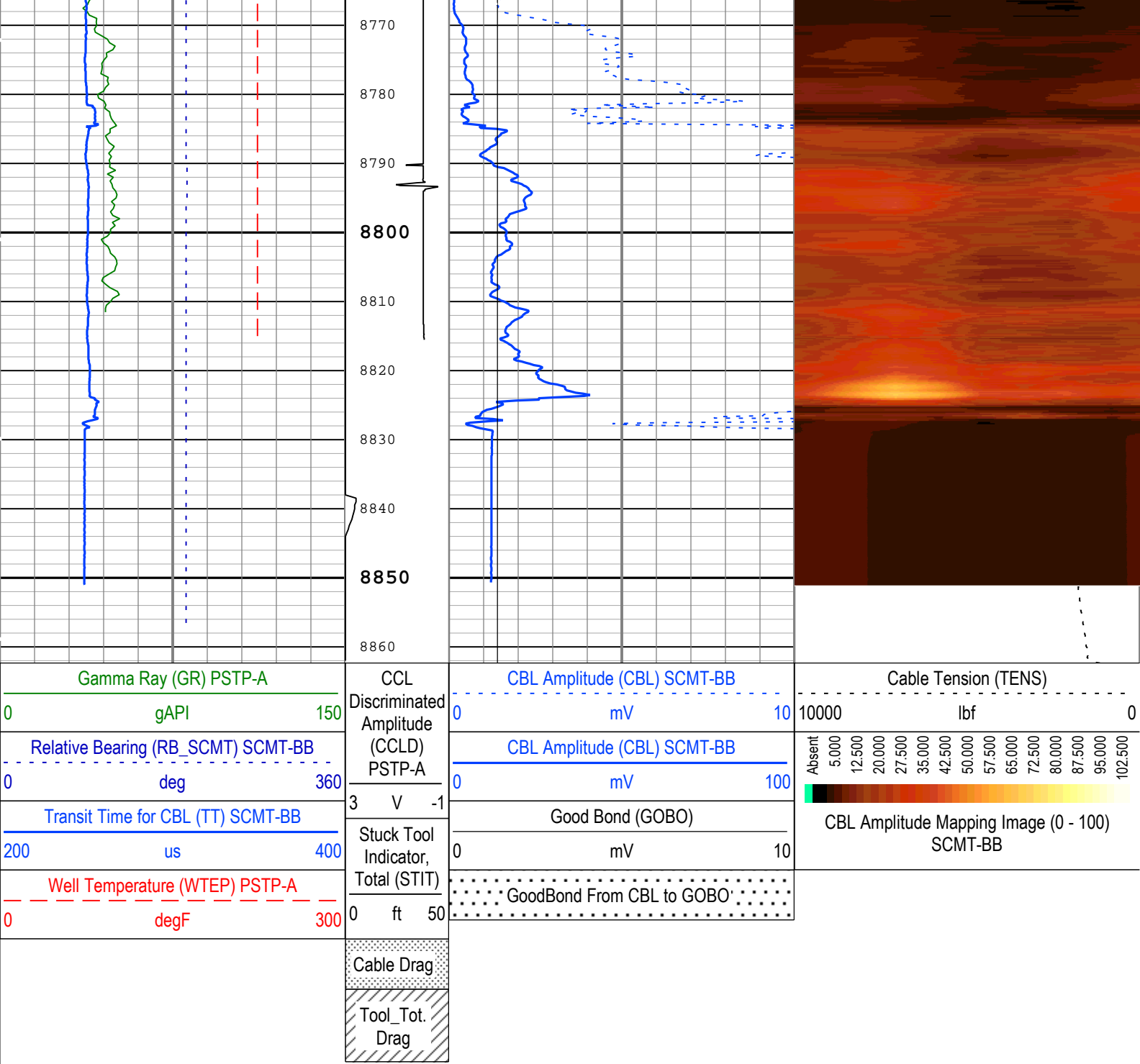
Log	Company:Caerus Piceance LLC	Well:Puckett 43B-2
		ONE: Log[2]:Up:S013

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: 05-Aug-2015 18:20:26

TIME_1900 - Time Marked every 60.00 (s)







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: 05-Aug-2015 18:20:26

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	225	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-BB	224	us
CBLG	CBL Gate Width	SCMT-BB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-BB	80	mV
CMCF	CBL Cement Type Compensation Factor	SCMT-BB	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
DET	Drilling Fluid Type	Borehole	Water	

DTMD	Borehole Fluid Slowness	Borehole	196	us/ft
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8479	ft
FCF	CBL Fluid Compensation Factor	SCMT-BB	0.89	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST	
M1EF	MAP sensitivity equalization factor of receiver 1	SCMT-BB	1.16	
M2EF	MAP sensitivity equalization factor of receiver 2	SCMT-BB	1.89	
M3EF	MAP sensitivity equalization factor of receiver 3	SCMT-BB	1.43	
M4EF	MAP sensitivity equalization factor of receiver 4	SCMT-BB	0.64	
M5EF	MAP sensitivity equalization factor of receiver 5	SCMT-BB	0.54	
M6EF	MAP sensitivity equalization factor of receiver 6	SCMT-BB	0.64	
M7EF	MAP sensitivity equalization factor of receiver 7	SCMT-BB	0.97	
M8EF	MAP sensitivity equalization factor of receiver 8	SCMT-BB	1.22	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-BB	167	us
MCCF	MAP Cement Type Compensation Factor	SCMT-BB	0.25	
MMSA	MAP Minimum Sonic Amplitude	SCMT-BB	3.98	mV
MSA	Minimum Sonic Amplitude	SCMT-BB	0.51	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
SHT	Surface Hole Temperature	Borehole	68	degF

Tool Control Parameters

ONE: Parameters

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

ONE

Main Pass 2500 PSI

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[3]:Up	Up	2449.81 ft	8880.28 ft	24-Jul-2015 3:08:05 PM	24-Jul-2015 6:42:45 PM	ON	5.73 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Caerus Piceance LLC
Well:Puckett 43B-2

ONE: Log[3]:Up:S013

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: 05-Aug-2015 18:20:28

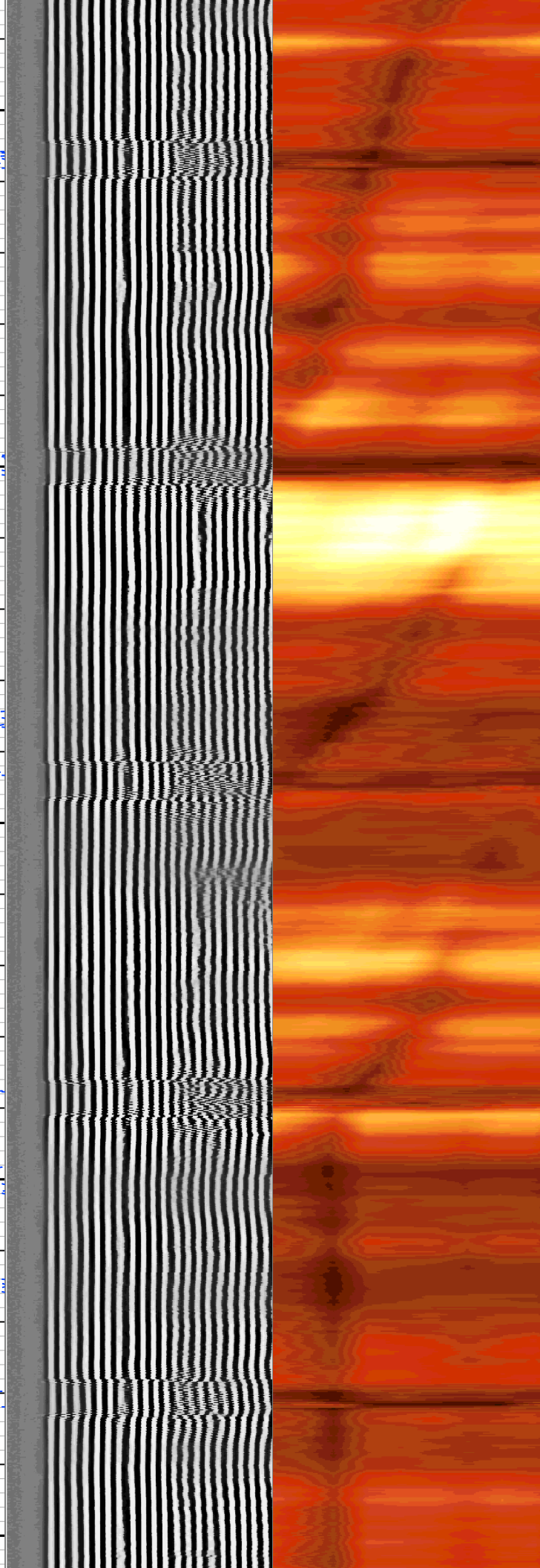
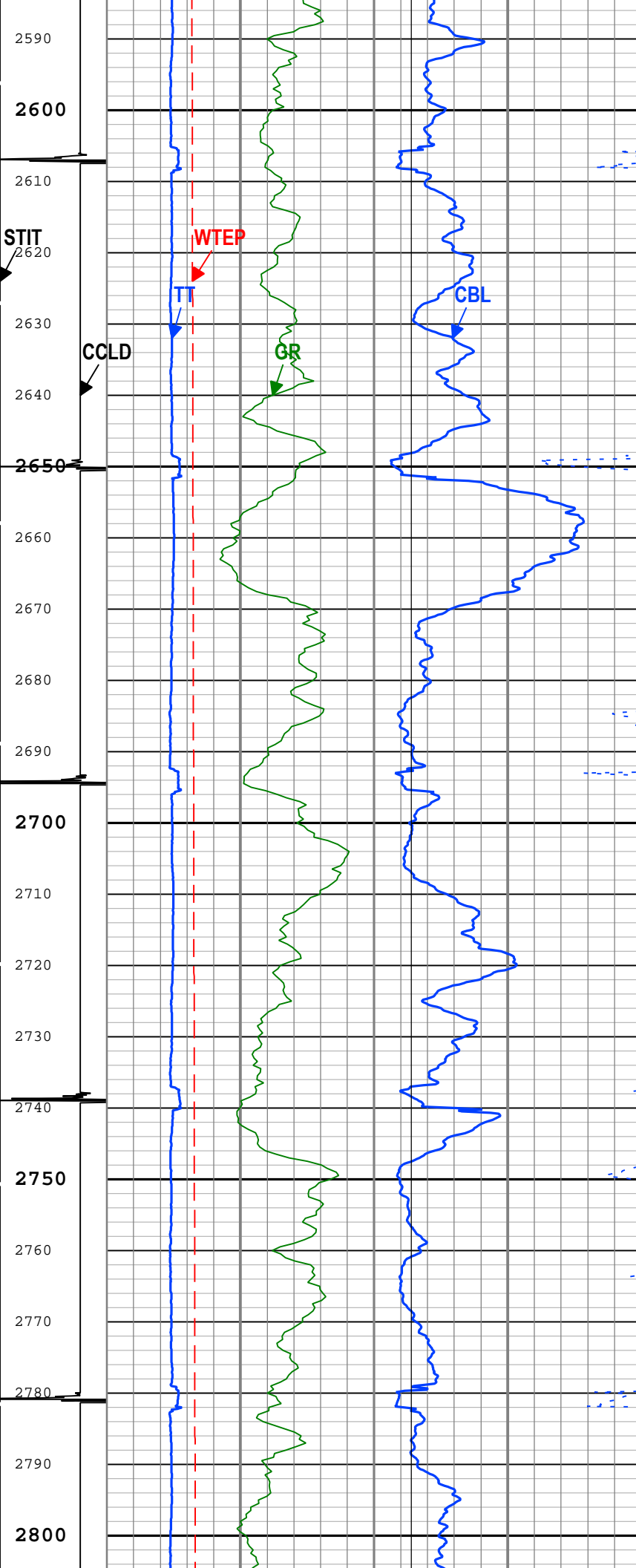
TIME_1900 - Time Marked every 60.00 (s)

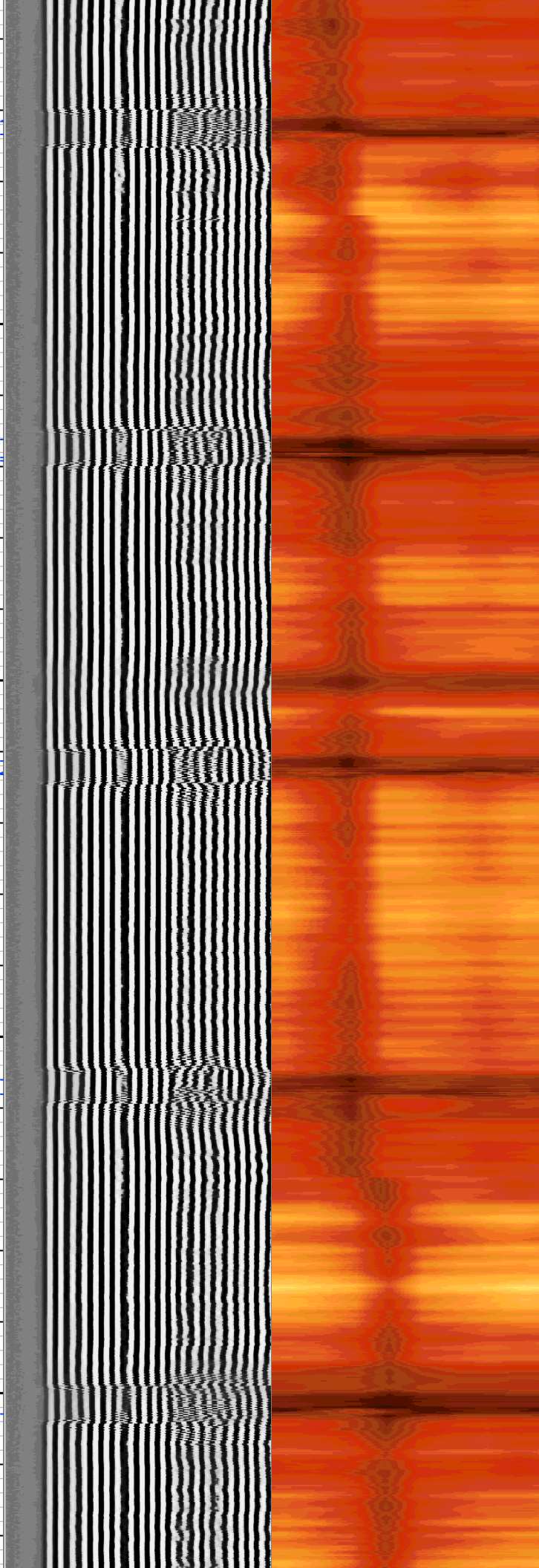
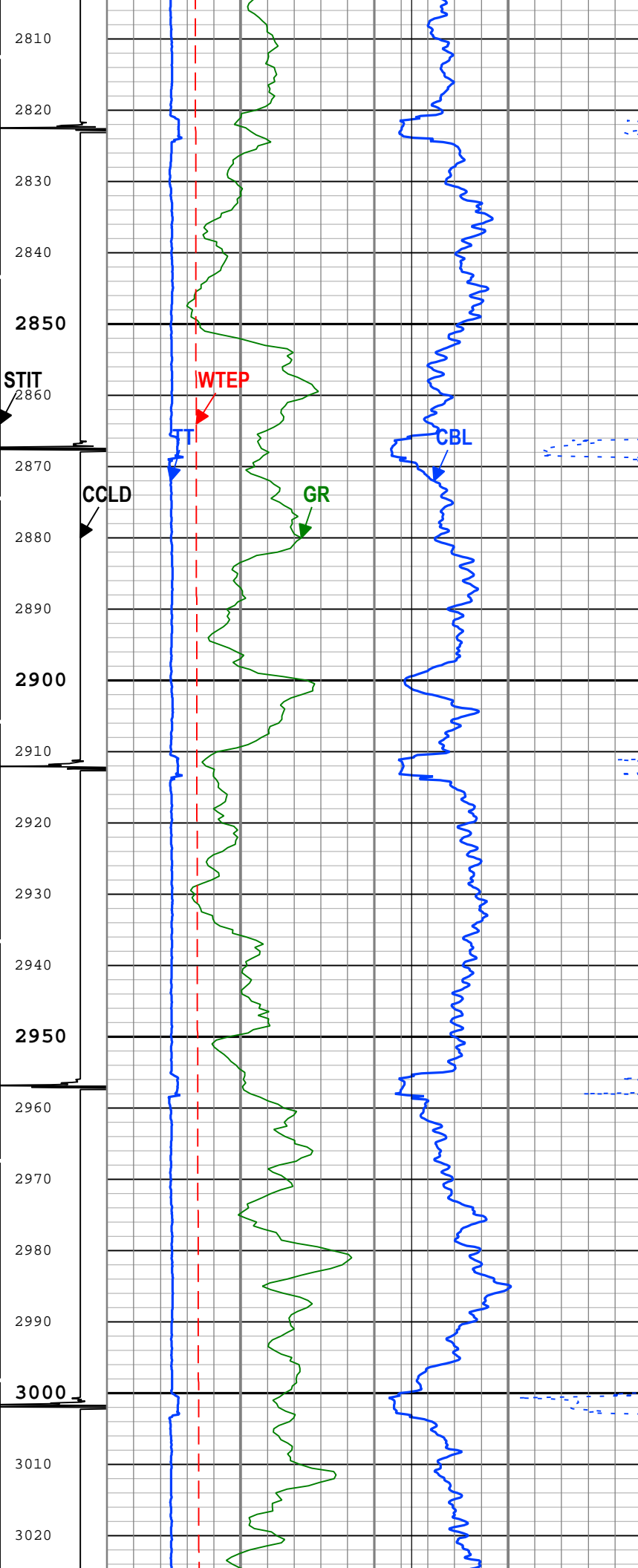
CCL Discriminated Amplitude (CCLD) PSTP-A

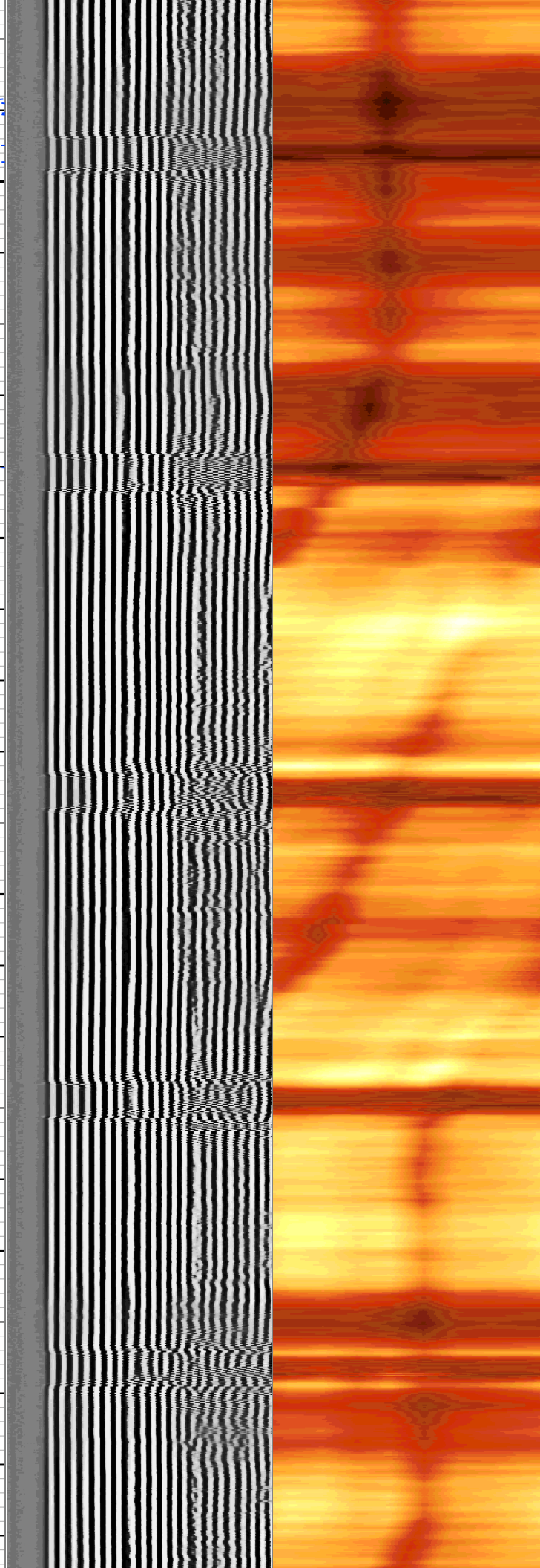
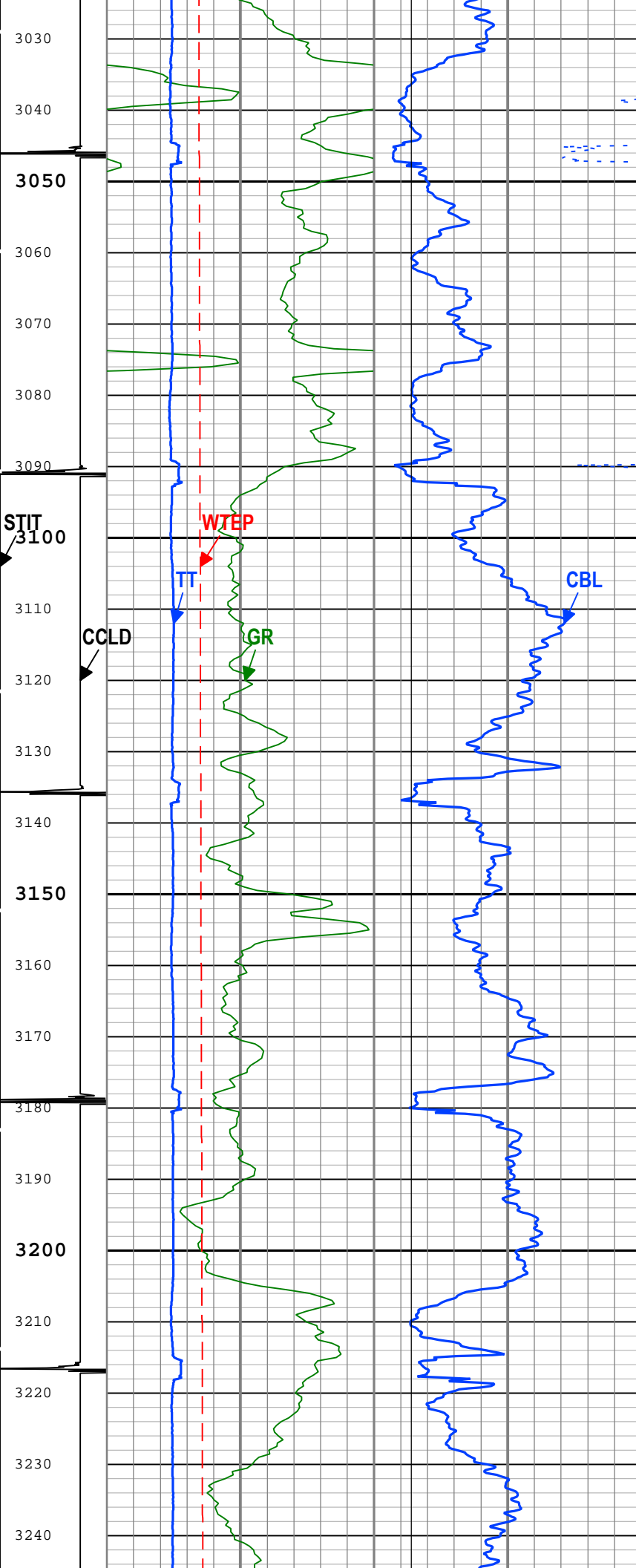
3
V
-1

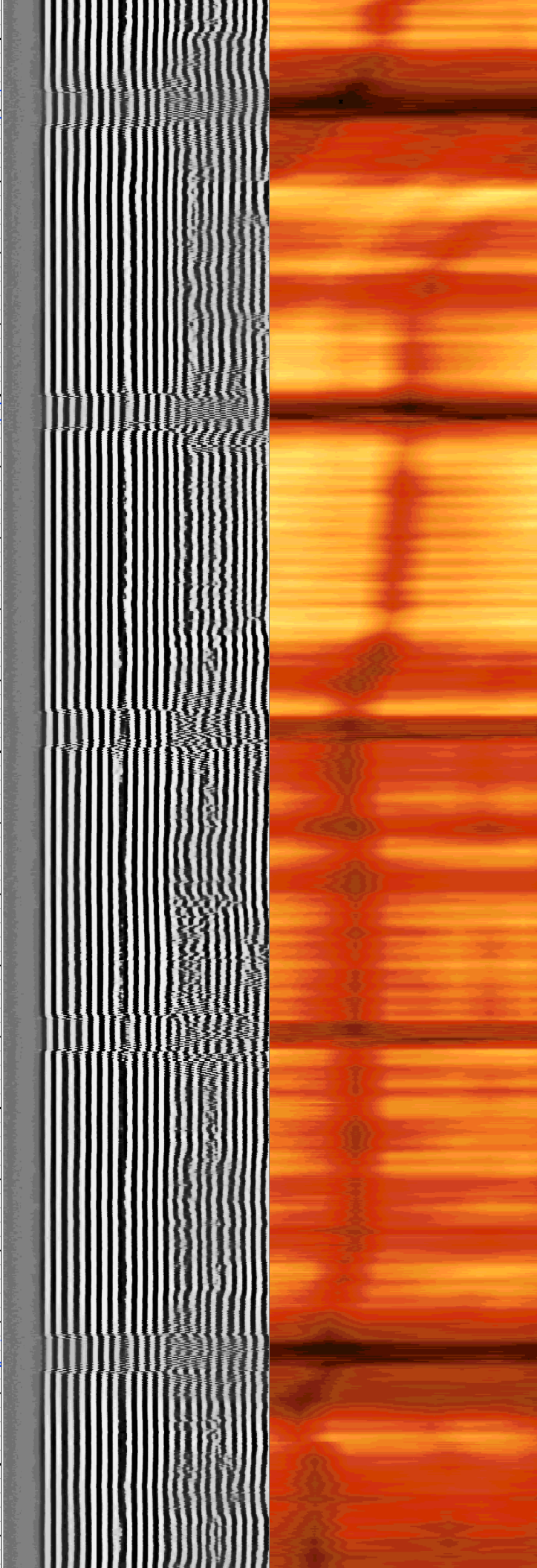
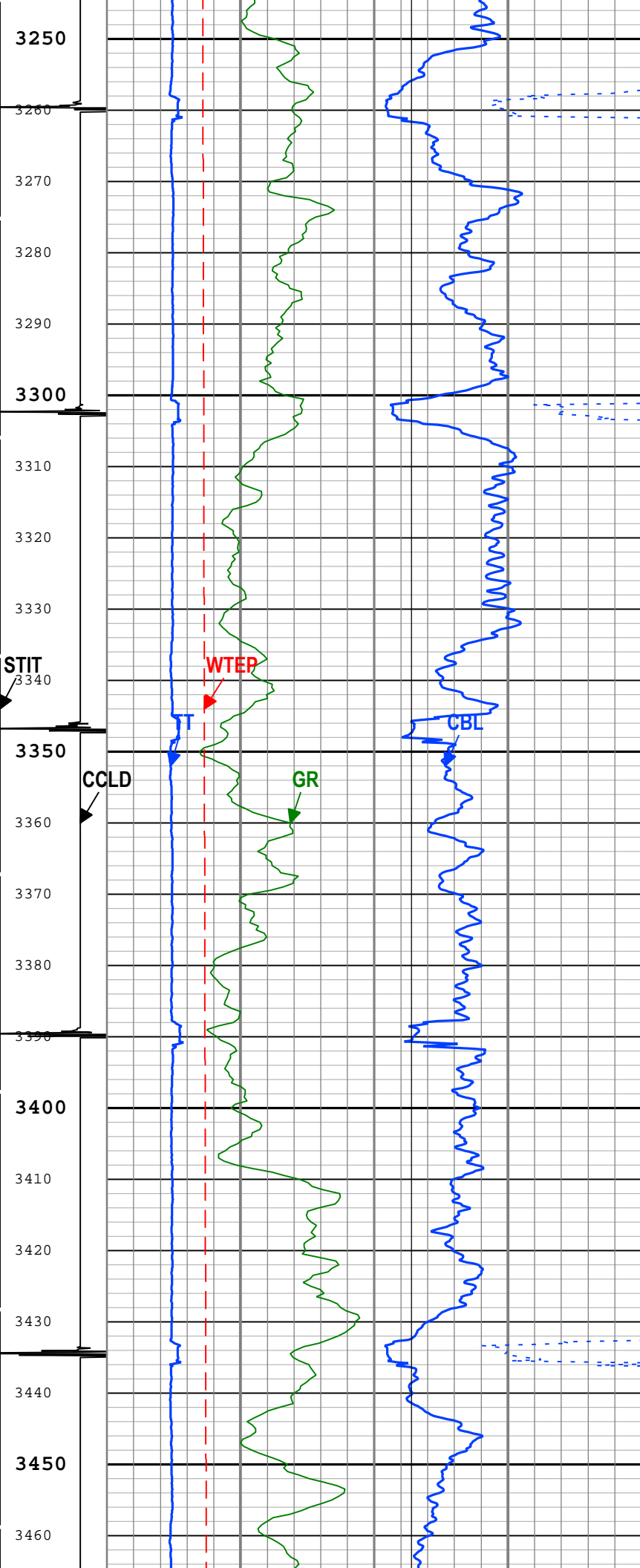
CBL Amplitude (CBL) SCMT BB

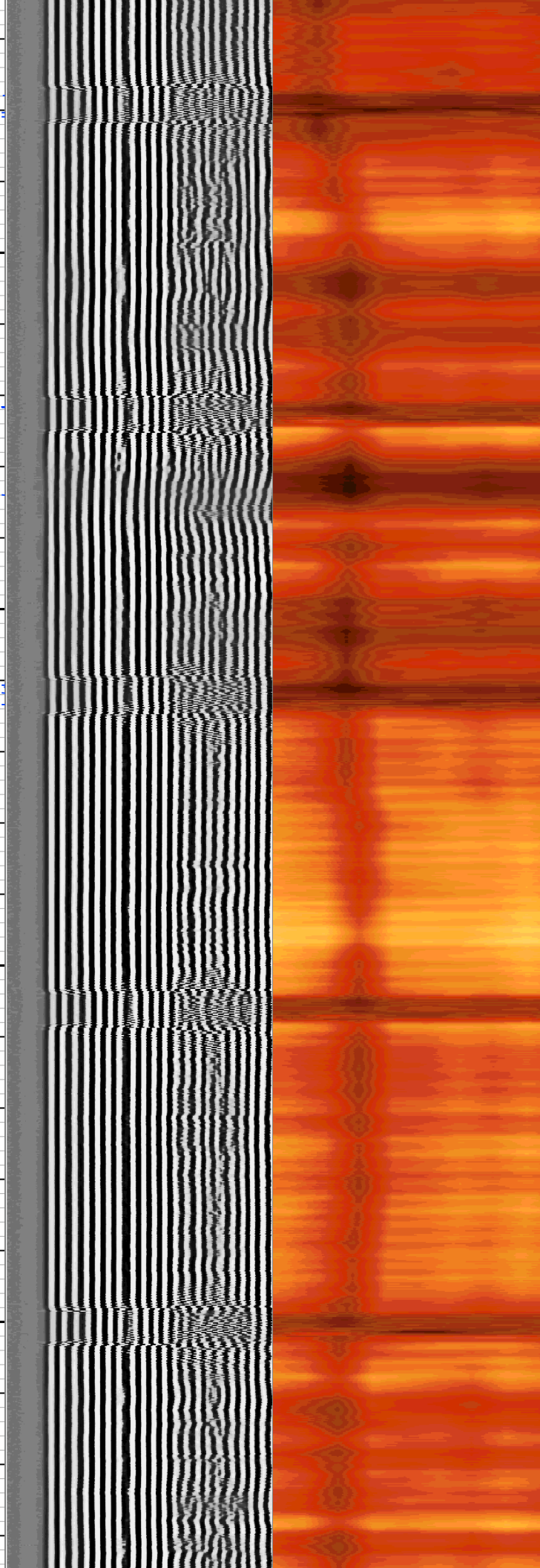
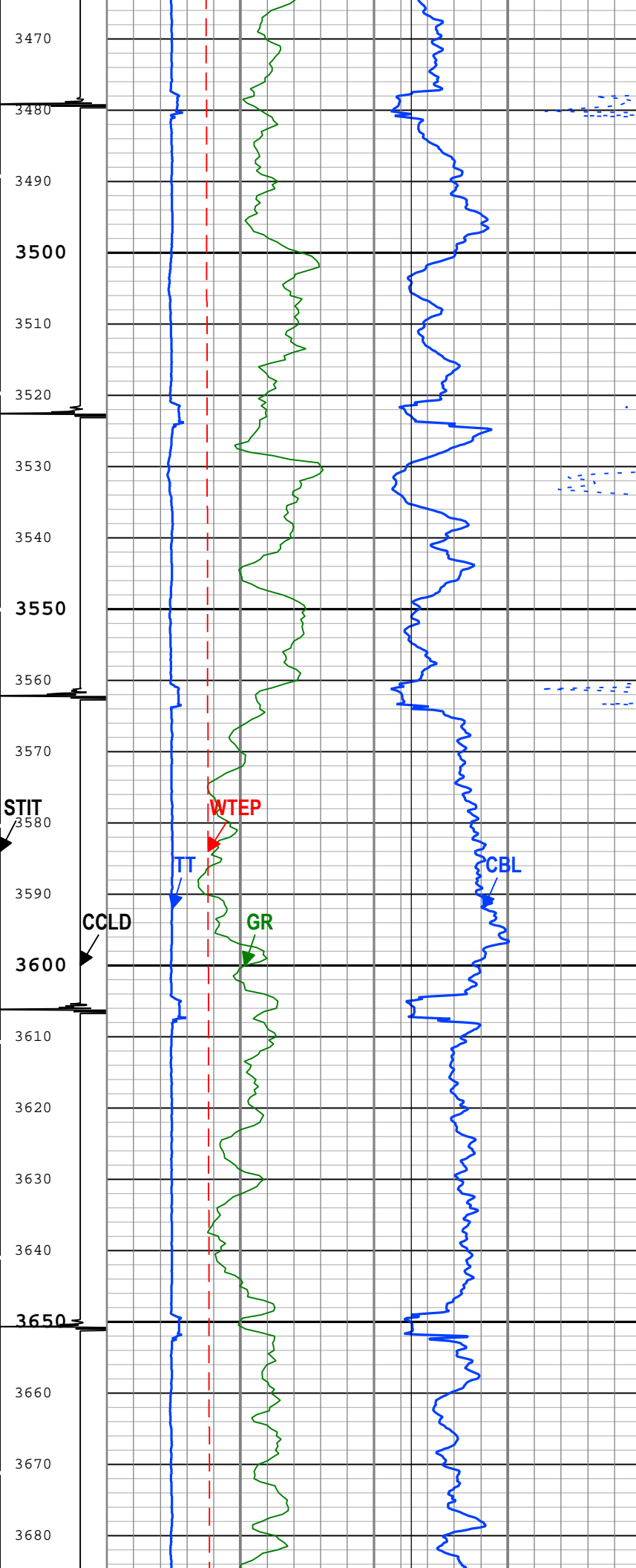
Stuck Tool Indicator, Total (STIT)			Gamma Ray (GR) PSTP-A			CBL Amplitude (CBL) SCMT-BB		
0 ft 50			0 gAPI 150			0 mV 10		
Cable Drag			Transit Time for CBL (TT) SCMT-BB			CBL Amplitude (CBL) SCMT-BB		
200 us 400			0 mV 100			0 mV 10		
Tool_Tot. Drag			Well Temperature (WTEP) PSTP-A			Good Bond (GOBO)		
2400			0 degF 300			0 mV 10		
						GoodBond From CBL to GOBO		
						200 us 1200		
2410								
2420								
2430								
2440								
2450								
2460								
2470								
2480								
2490								
2500								
2510								
2520								
2530								
2540								
2550								
2560								
2570								
2580								

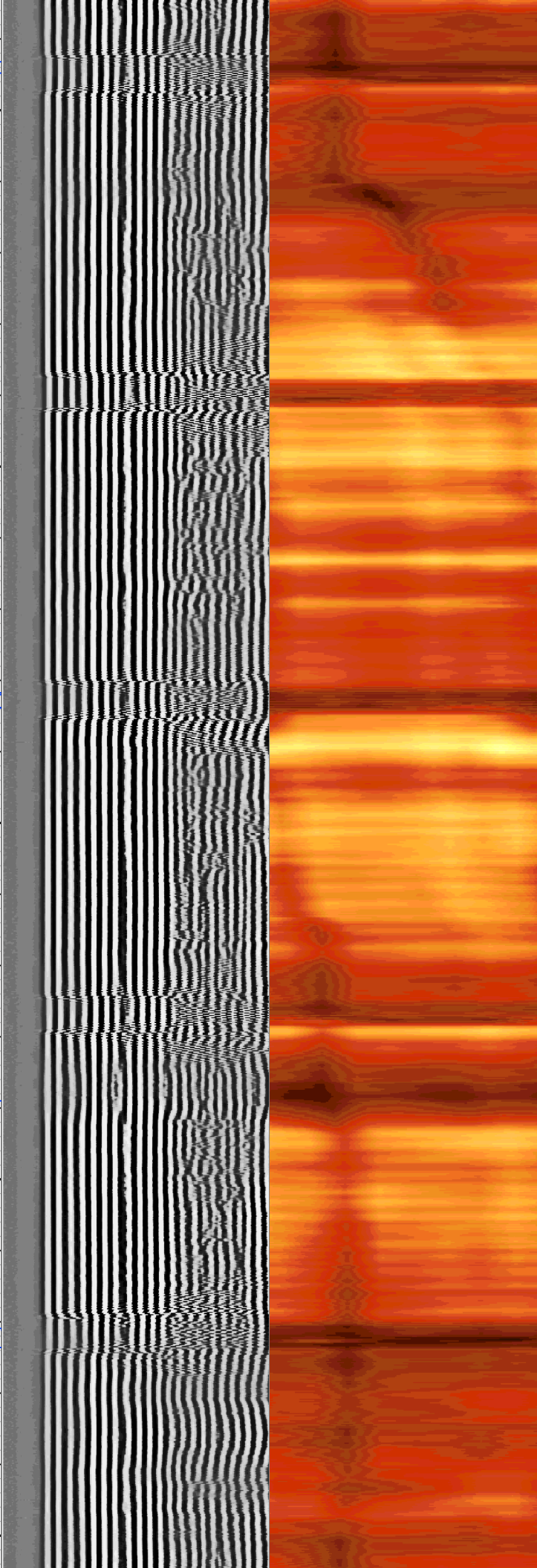
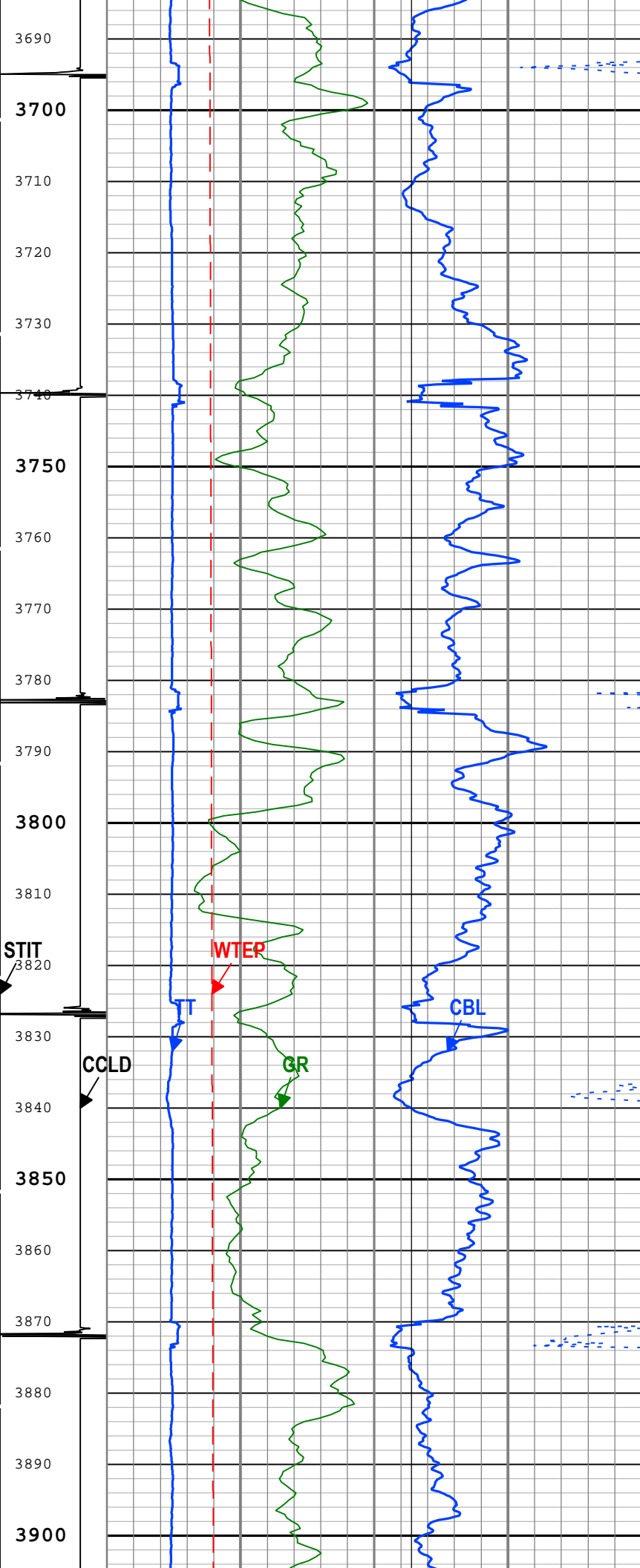


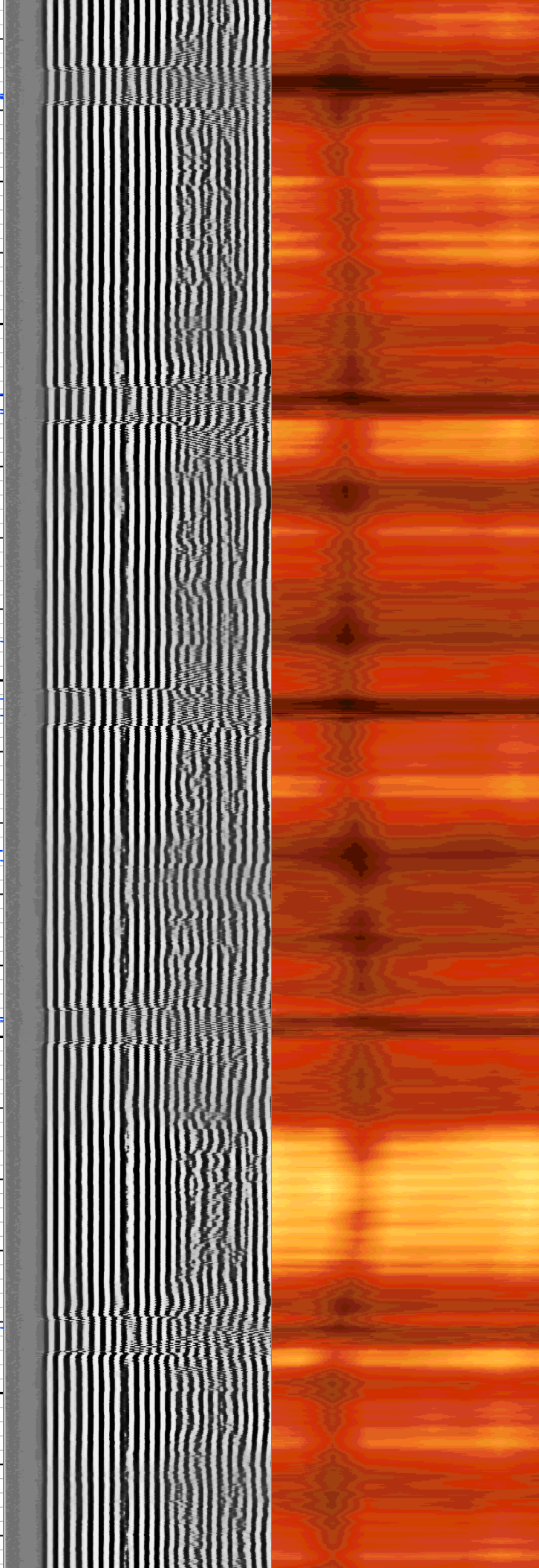
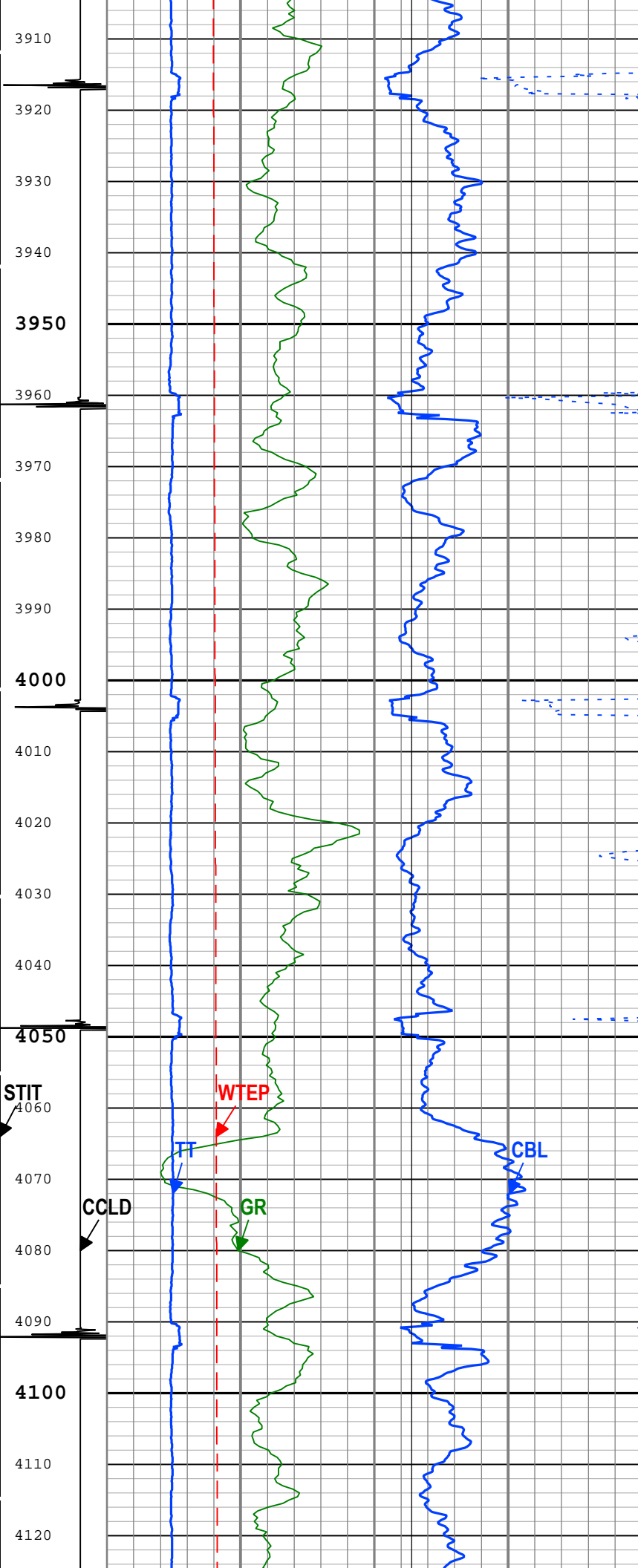


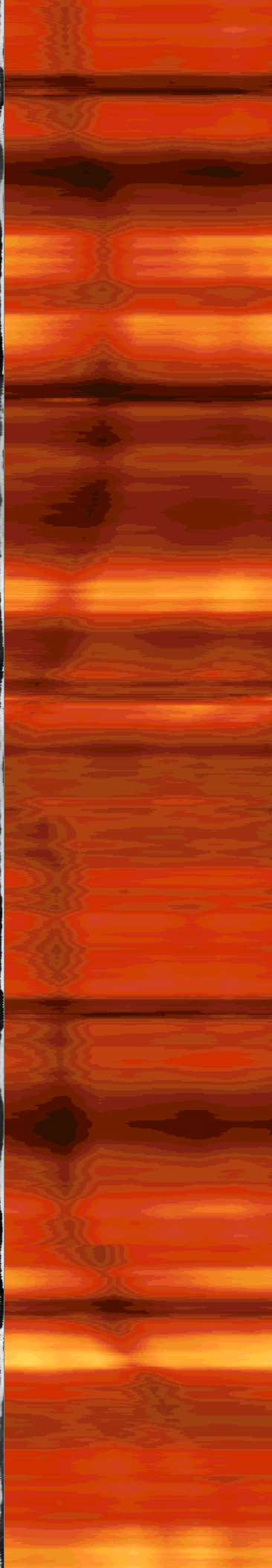
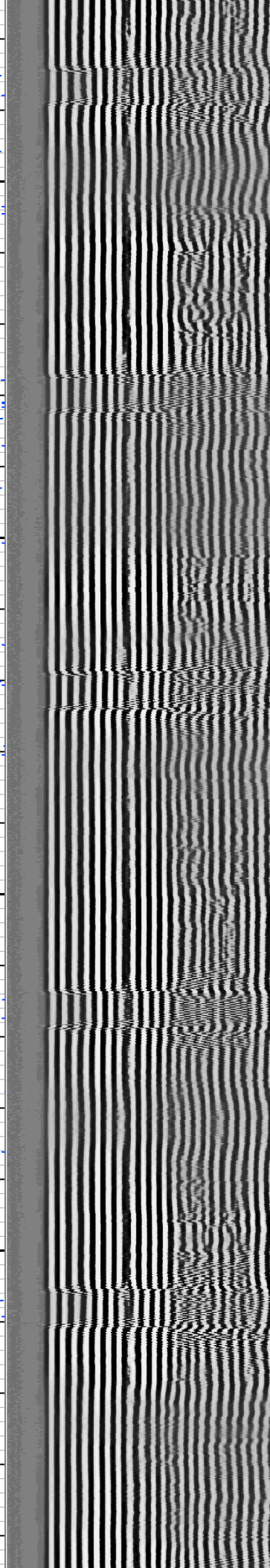
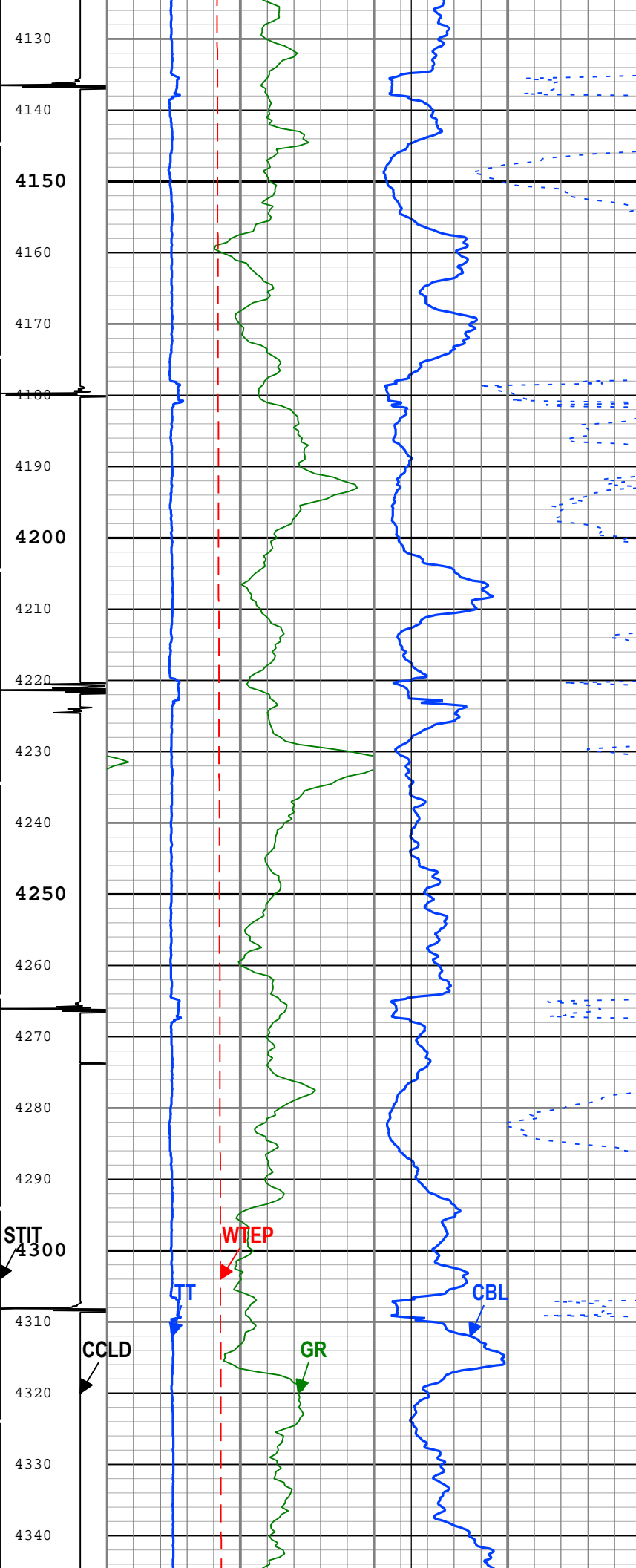


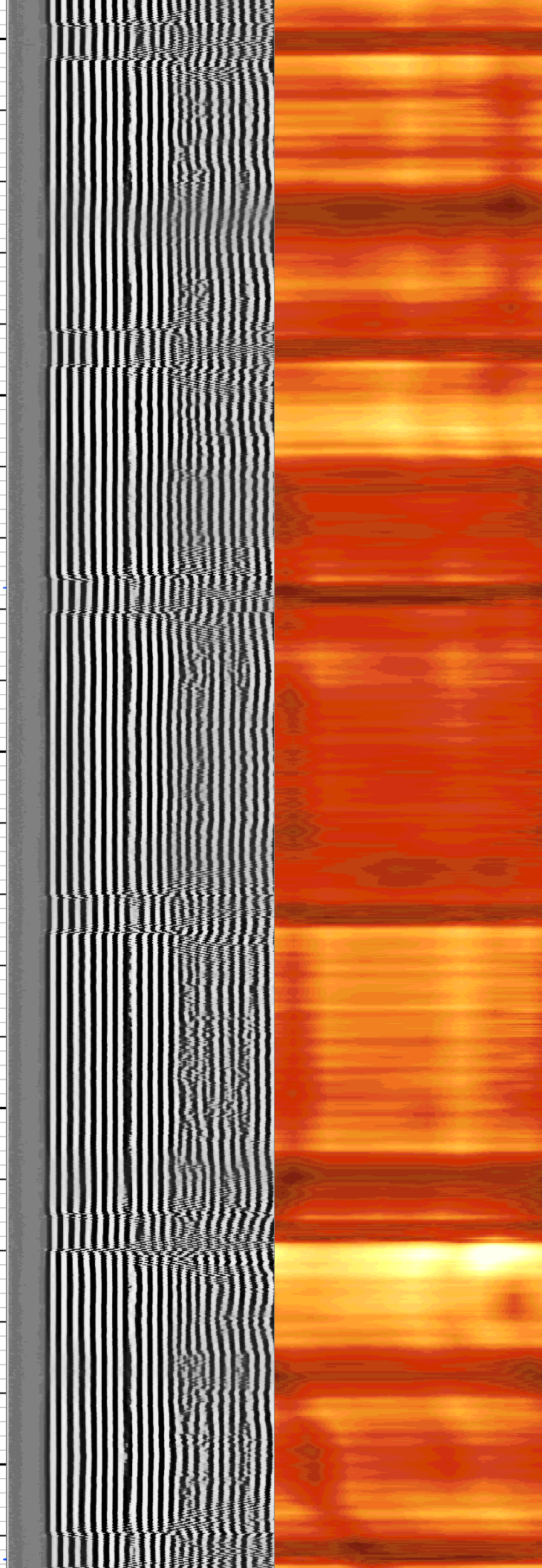
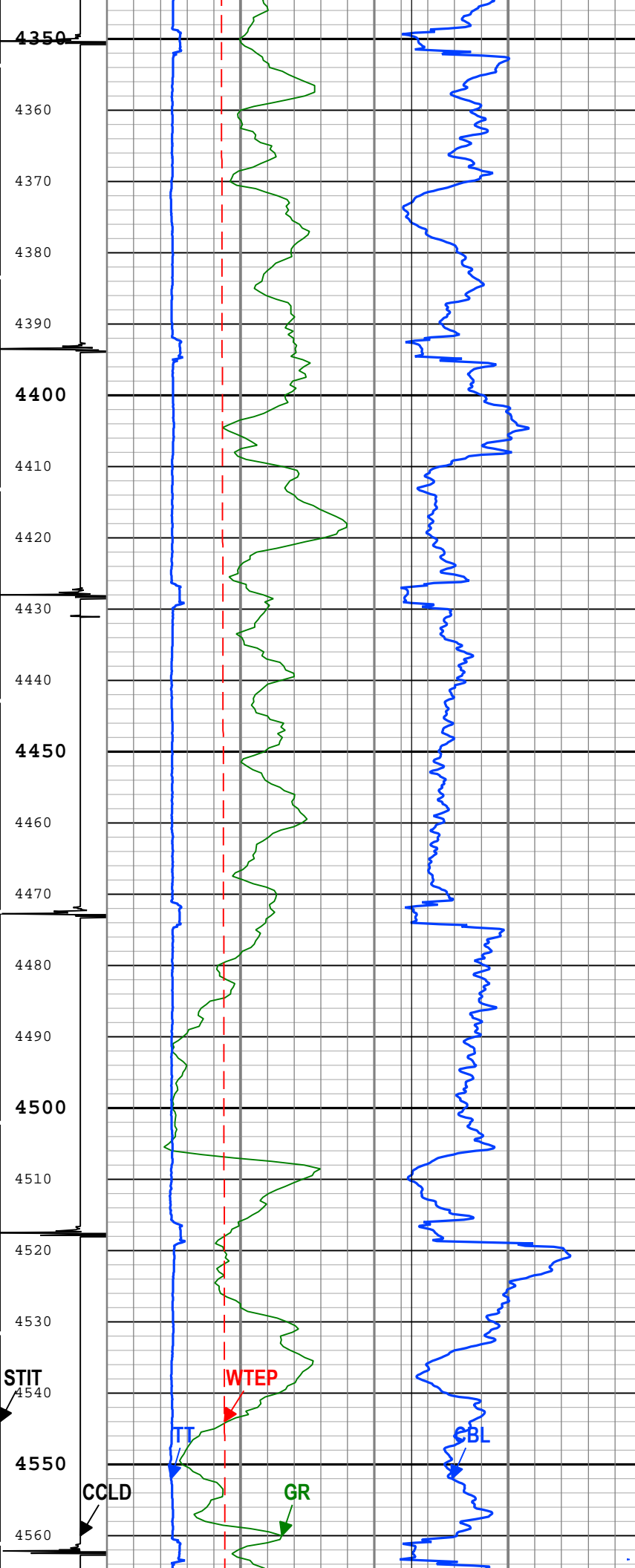


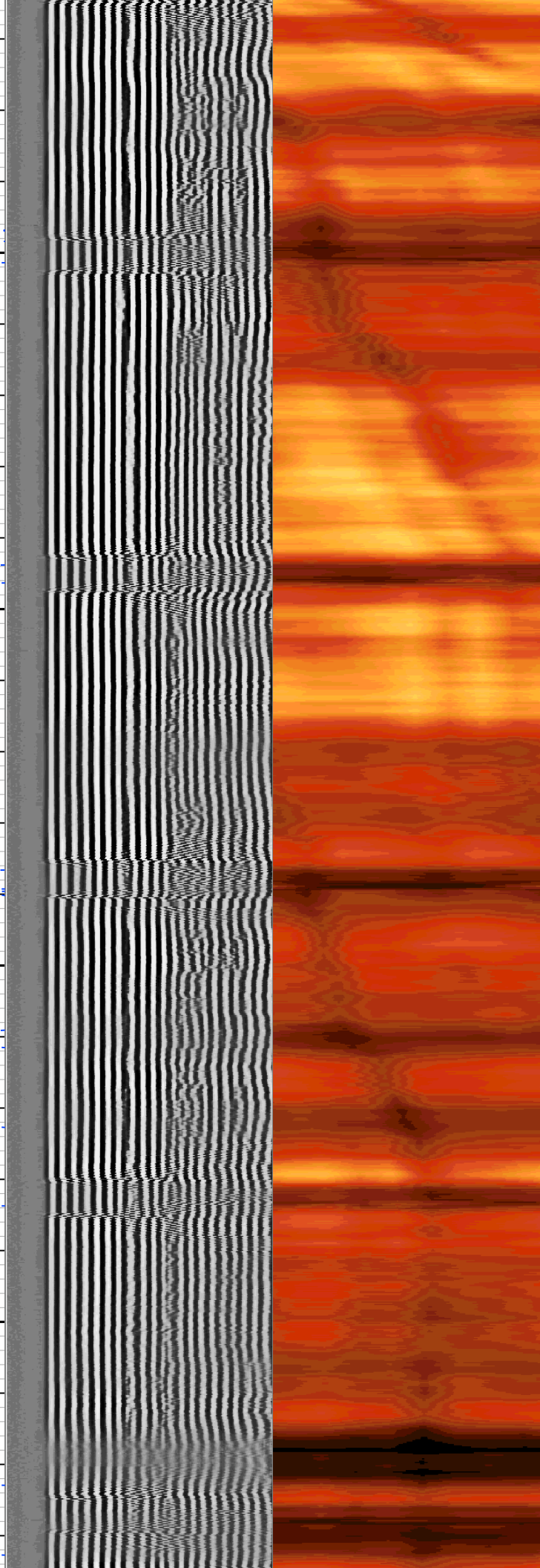
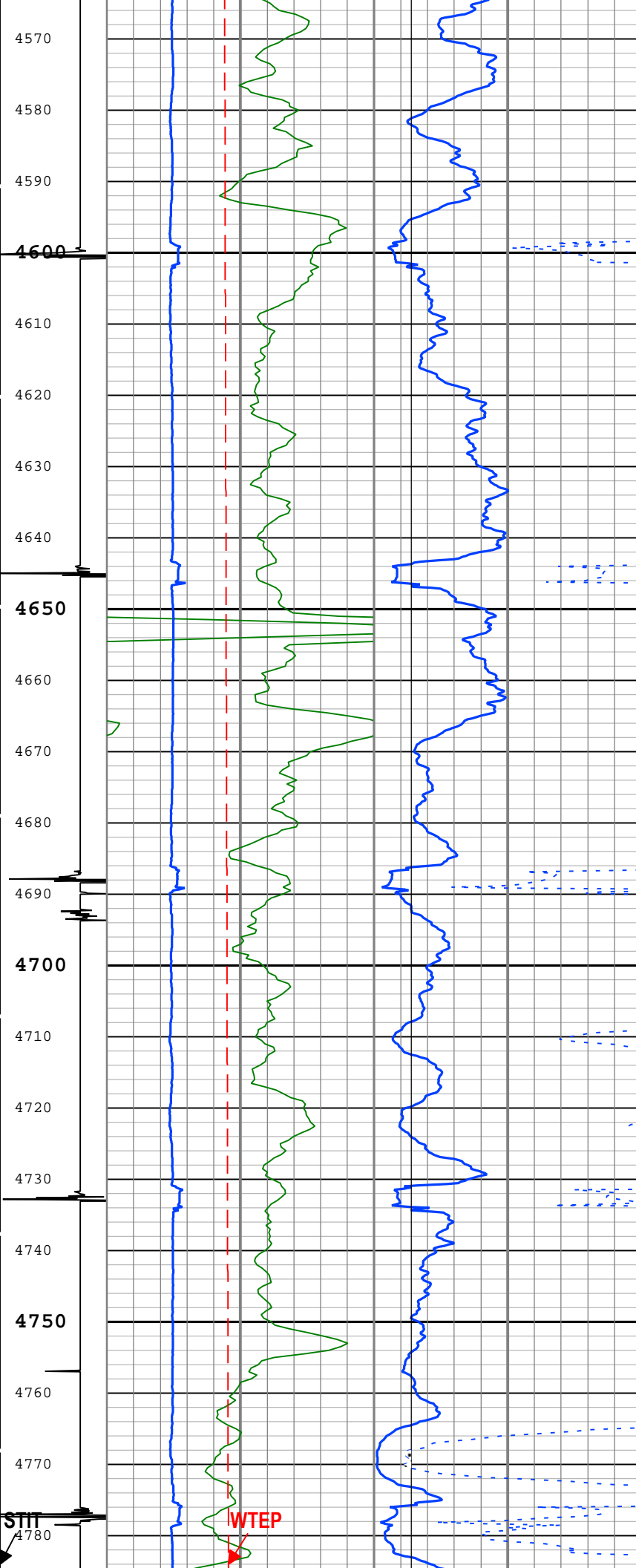


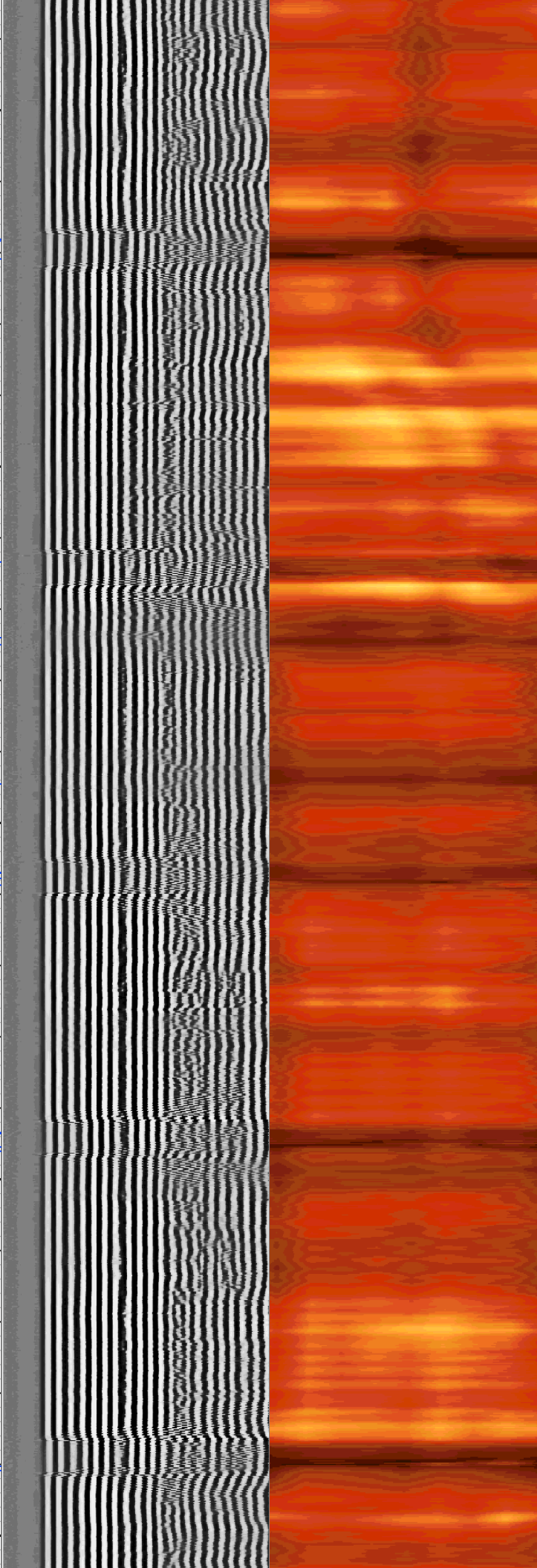
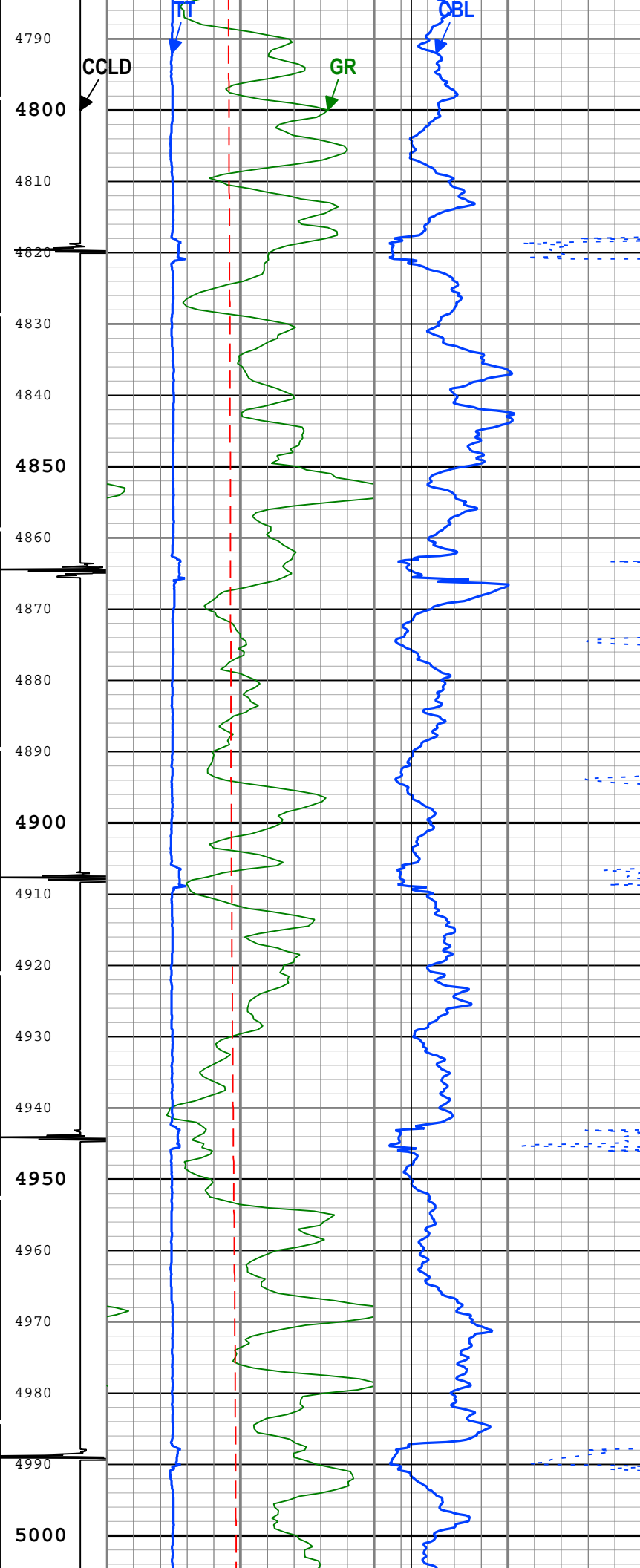


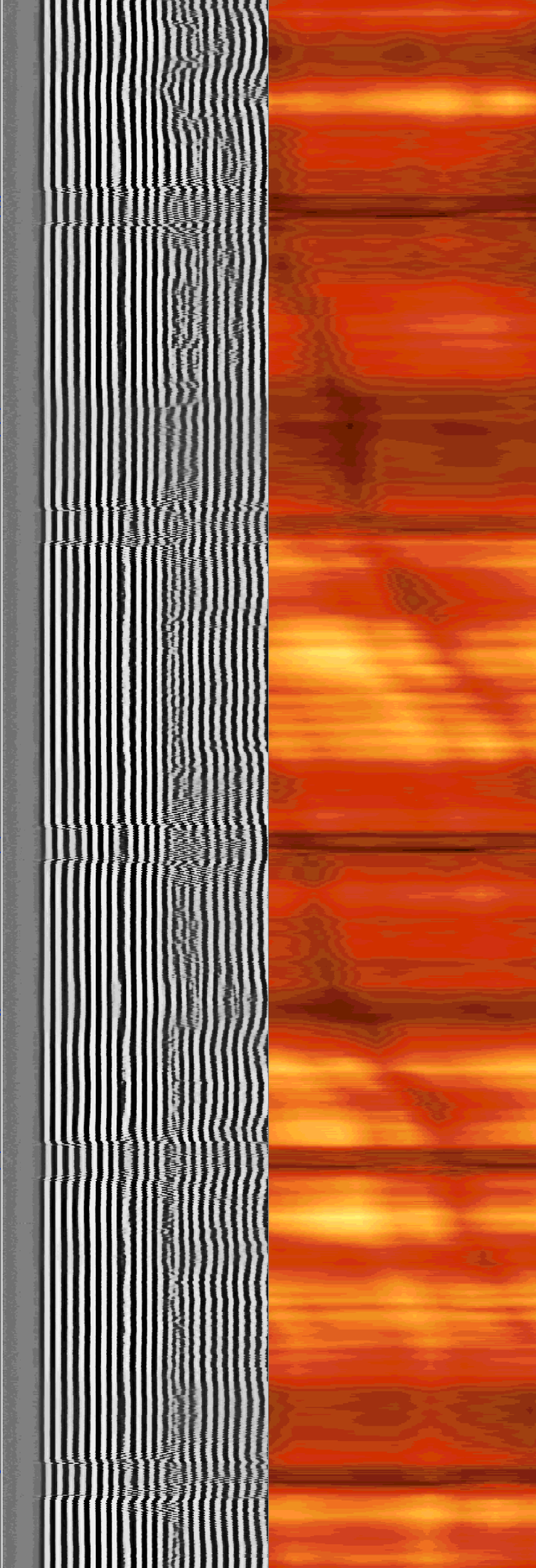
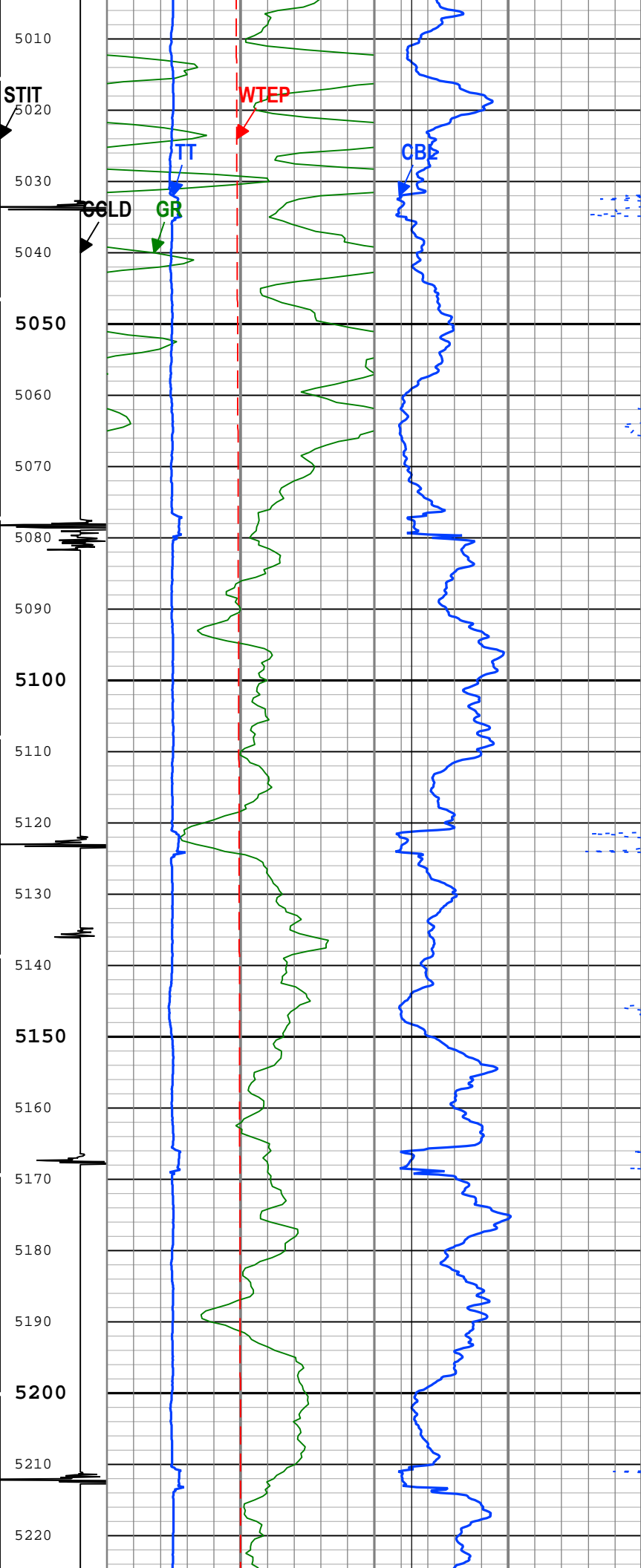


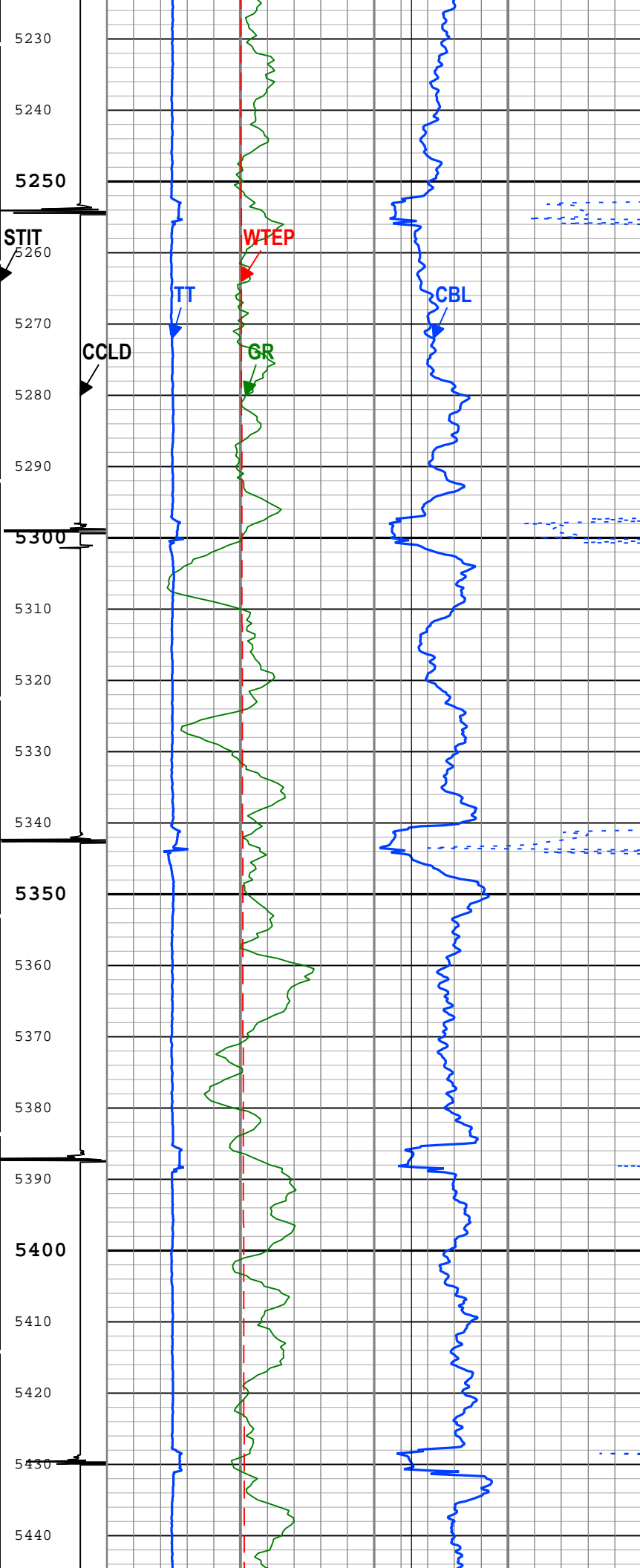


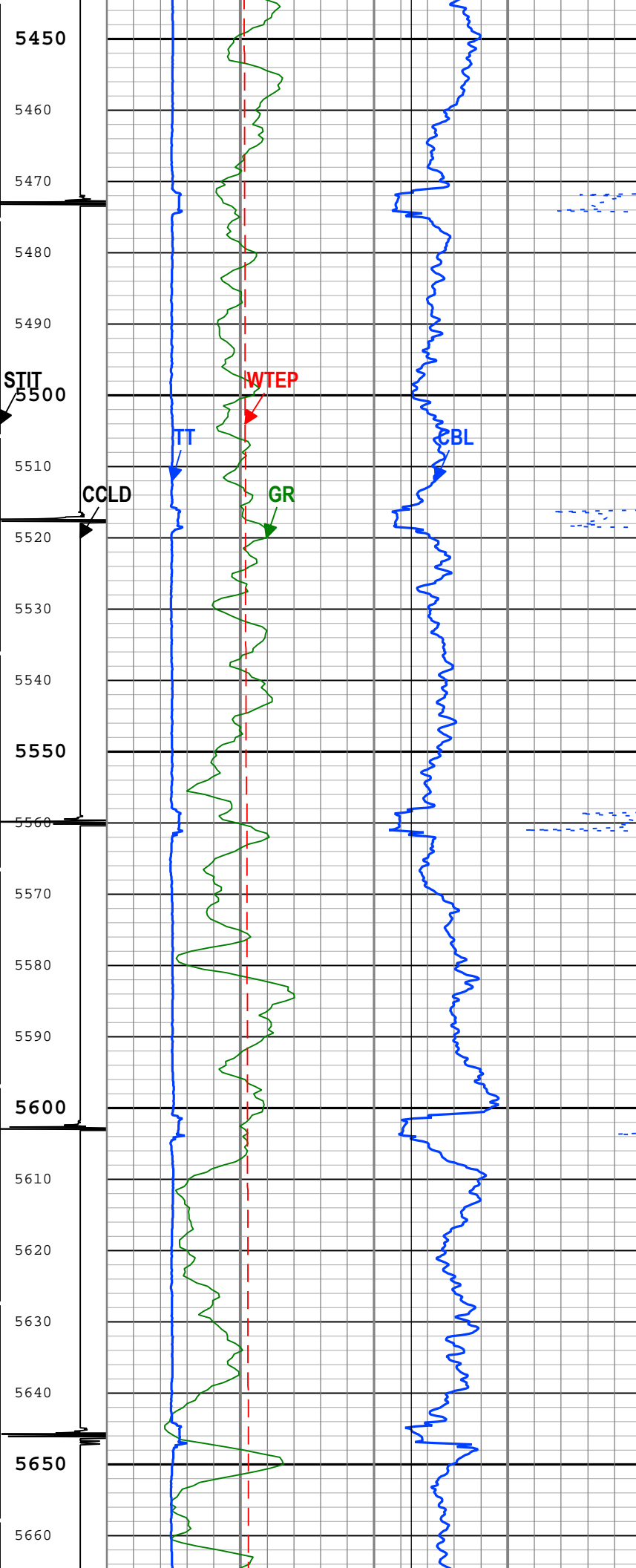


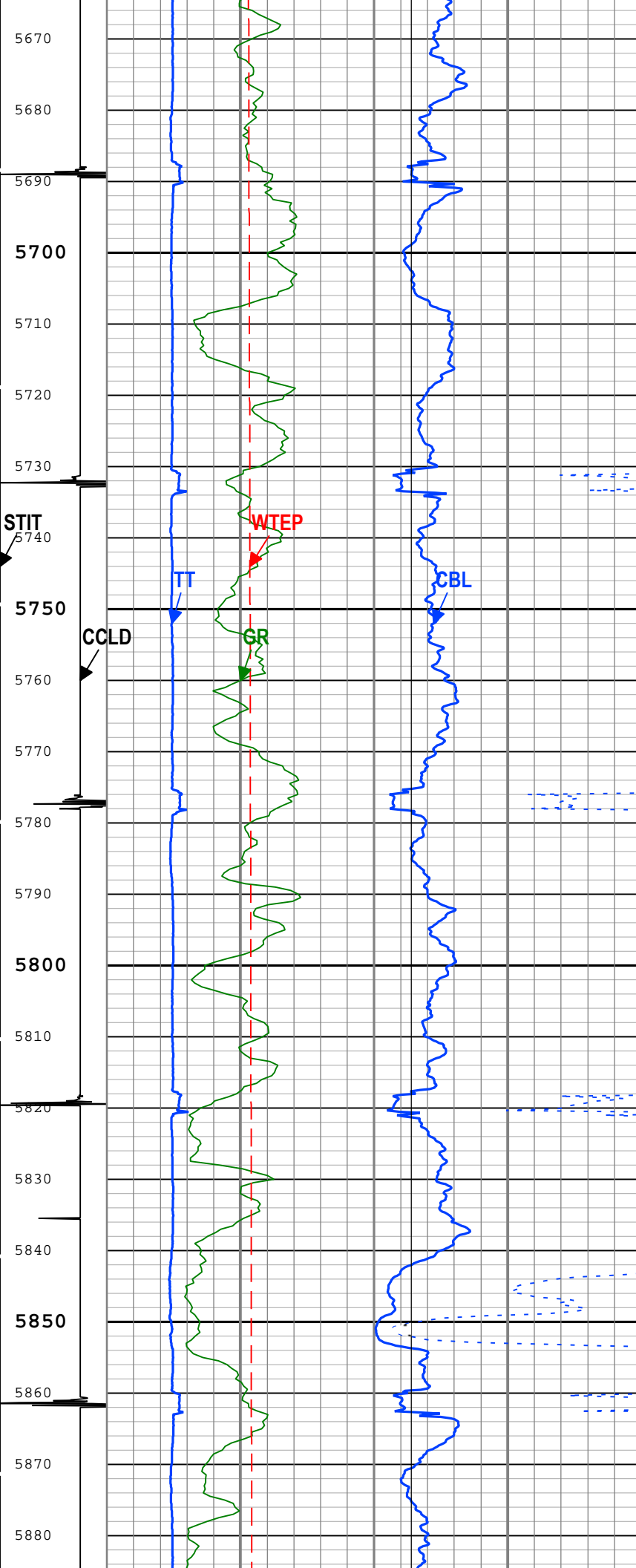


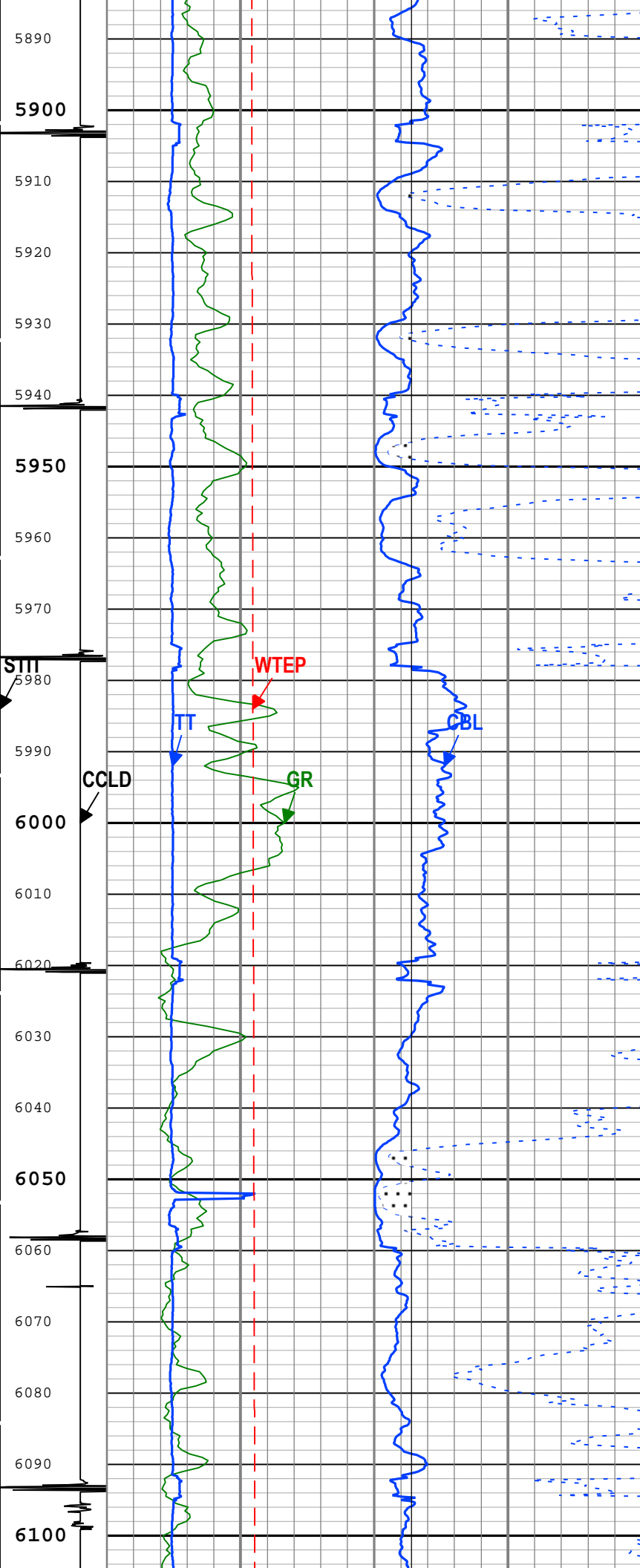


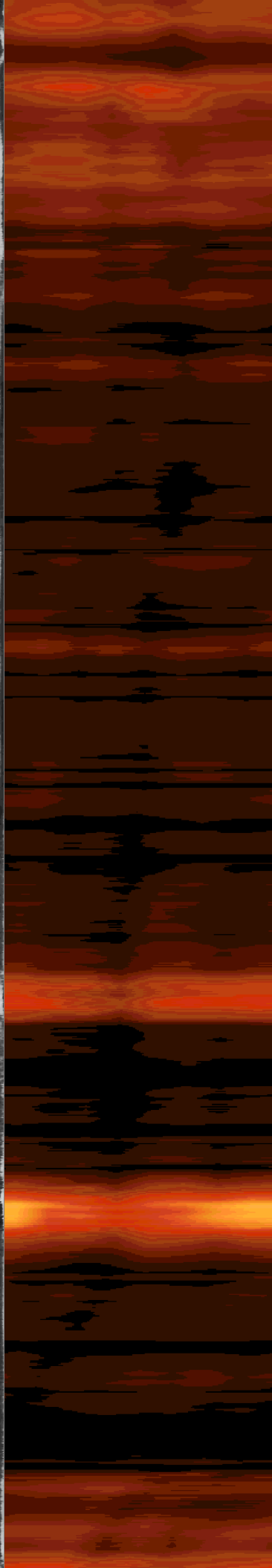
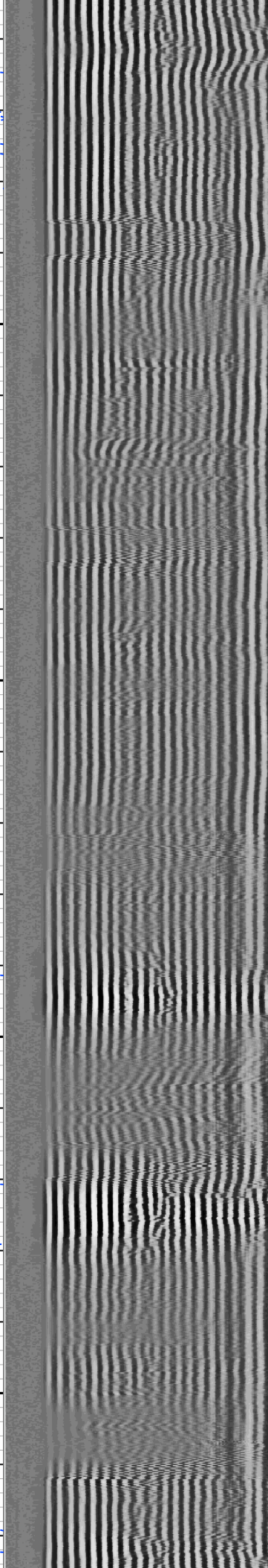
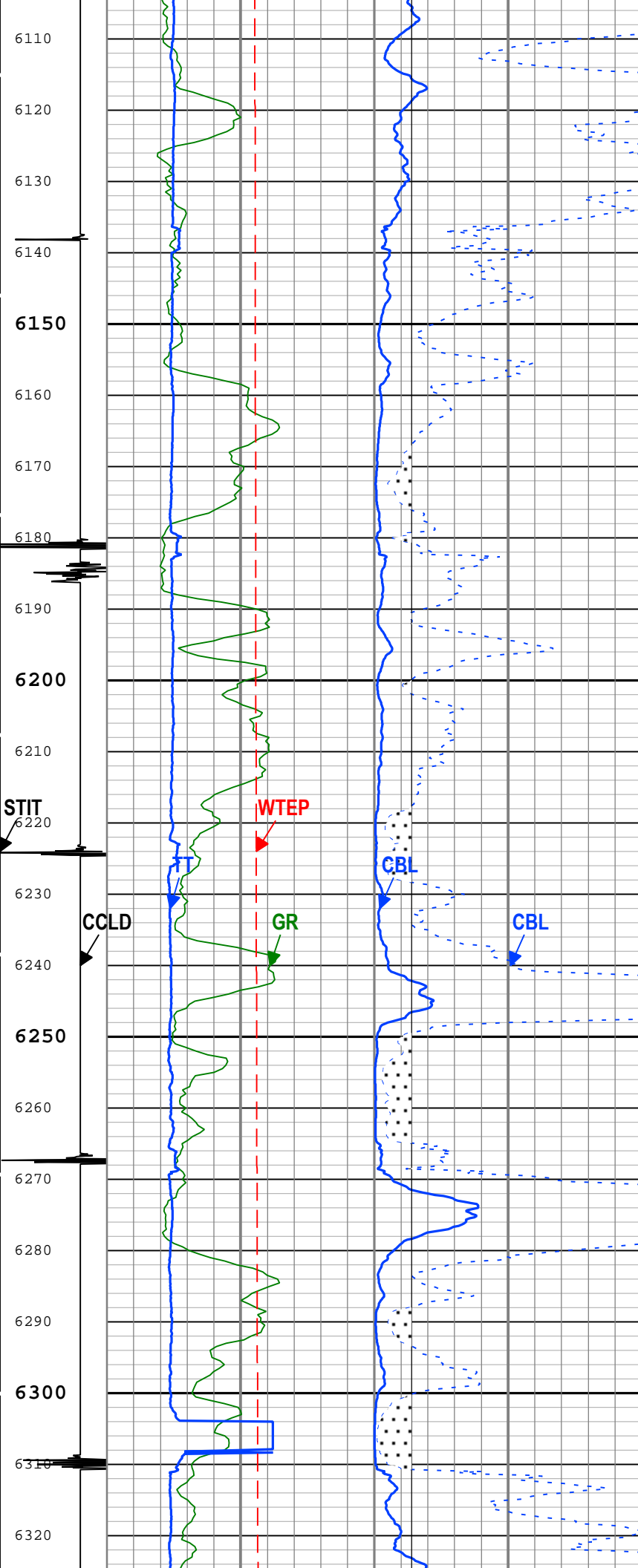


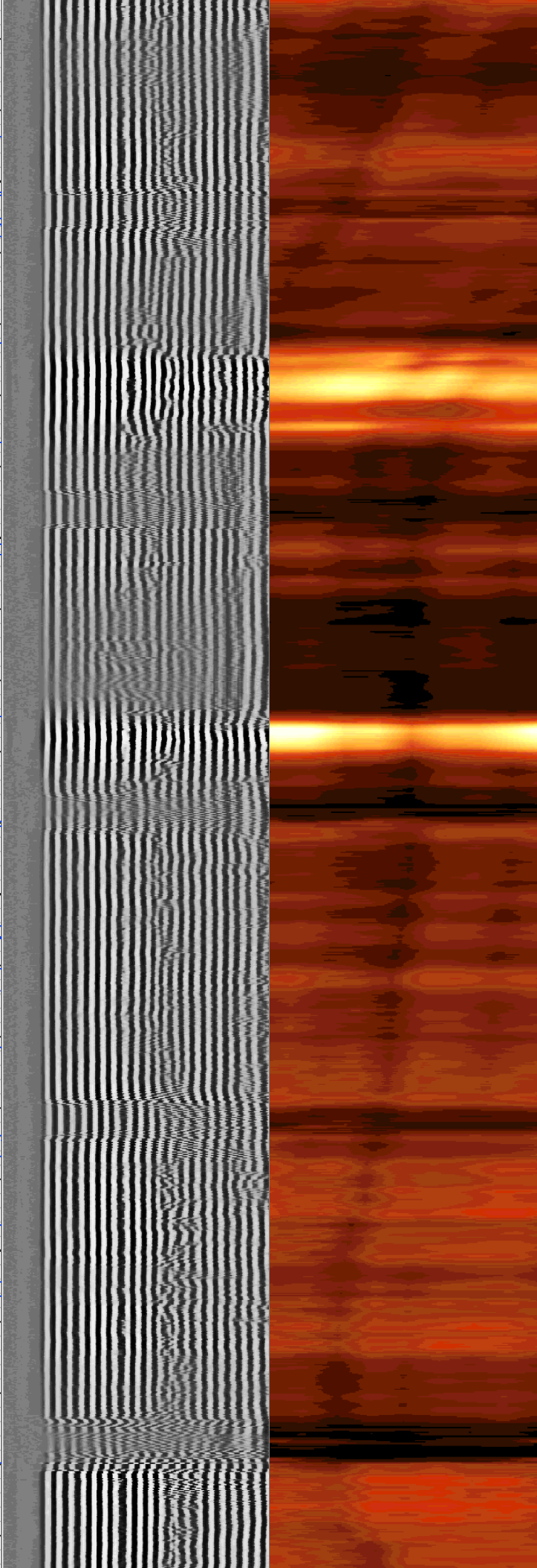
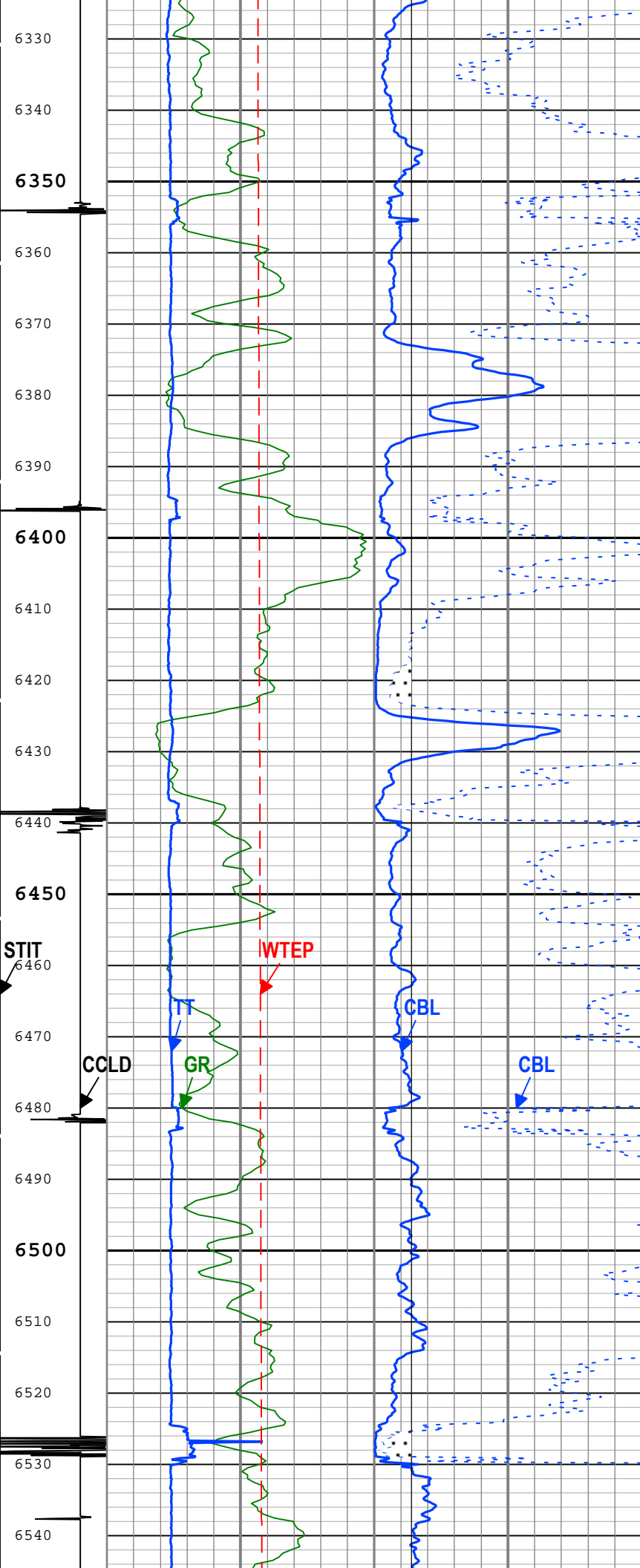


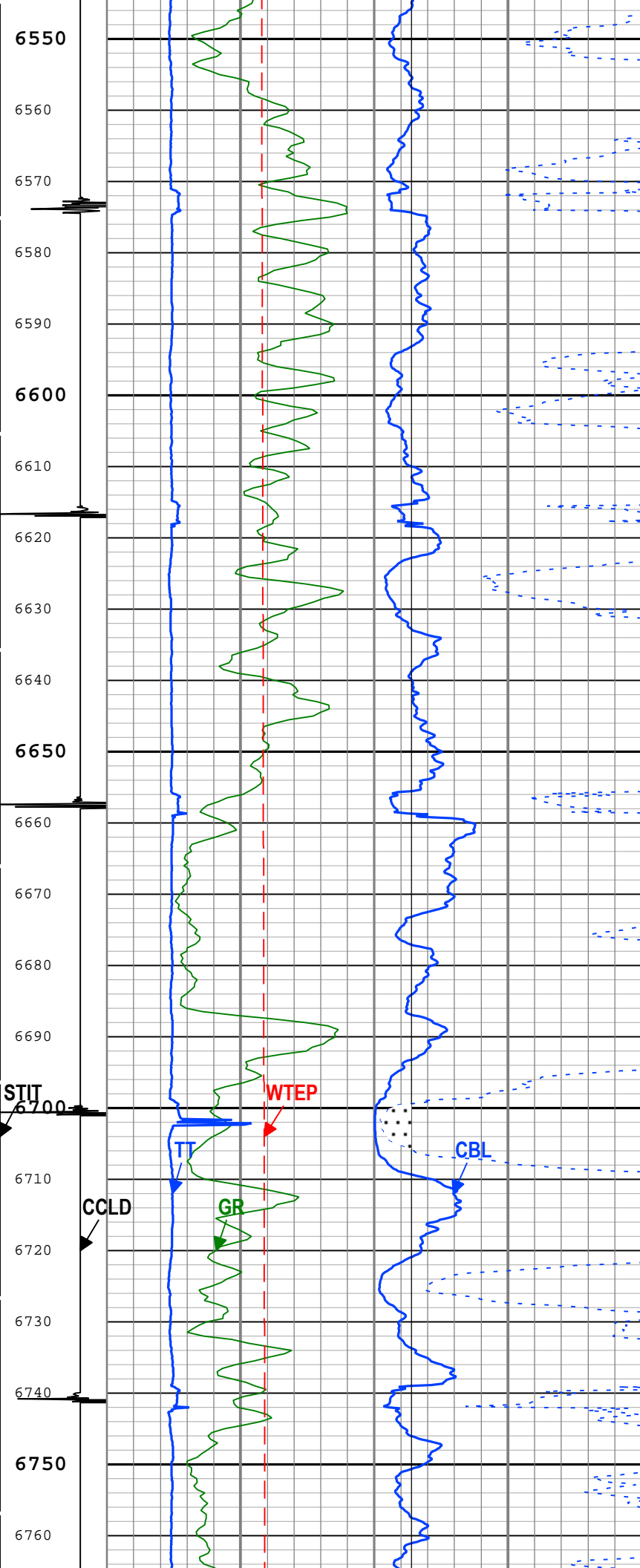


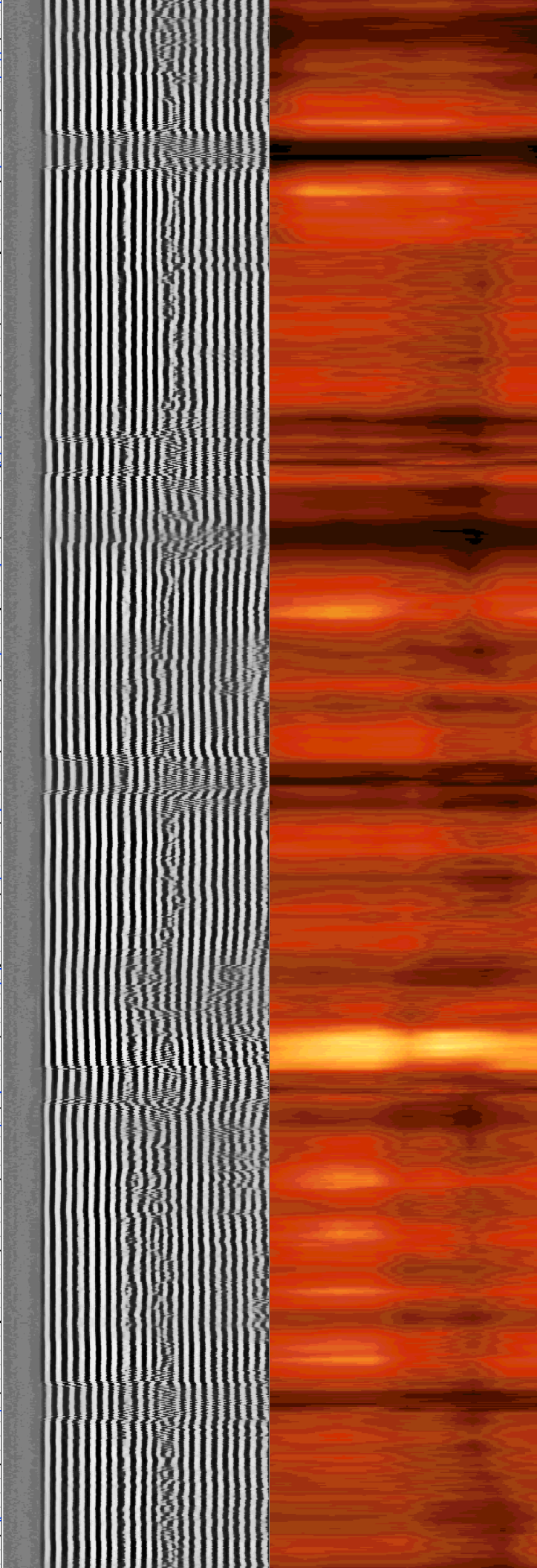
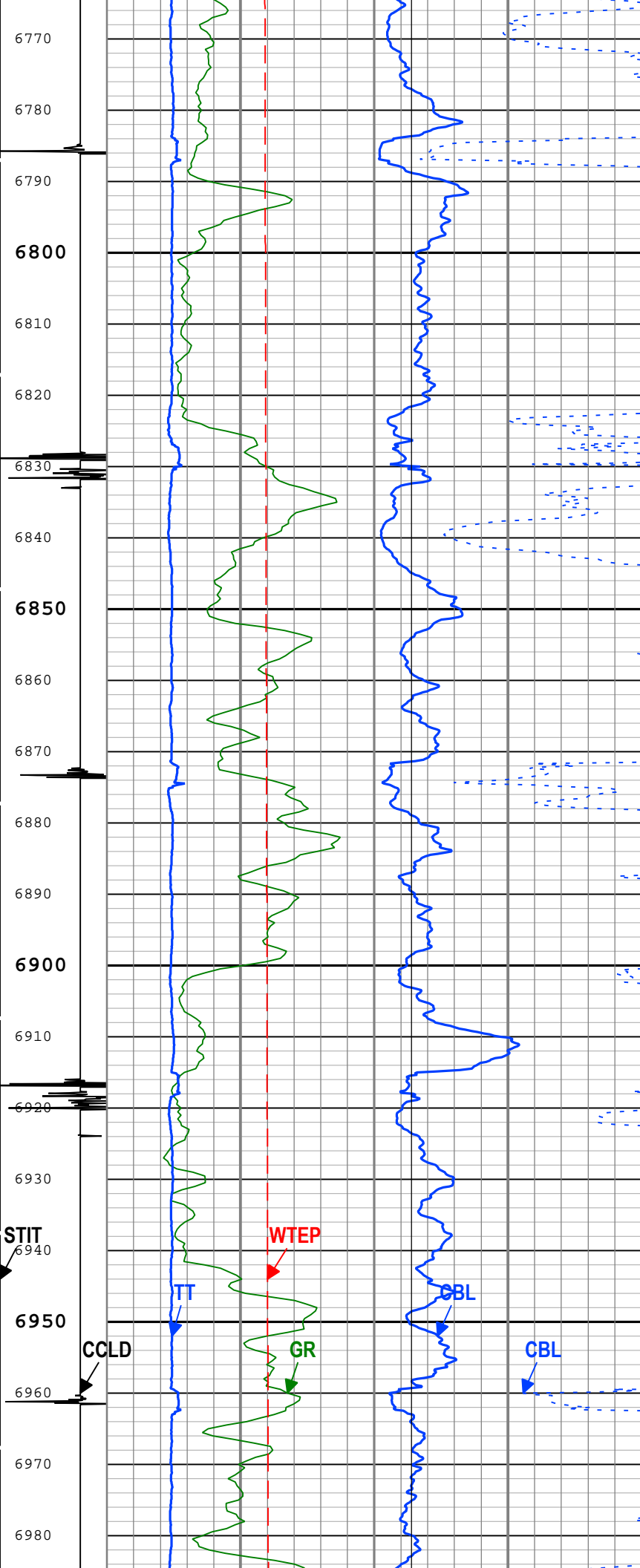


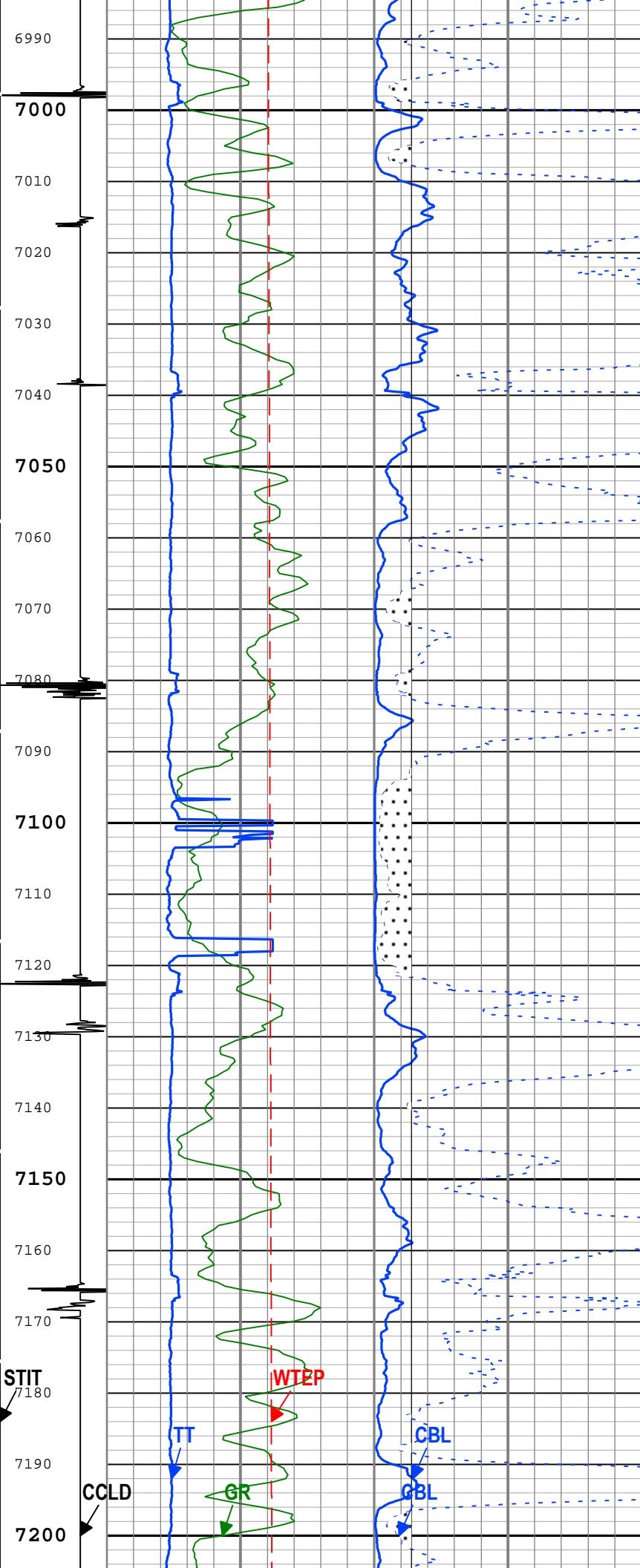


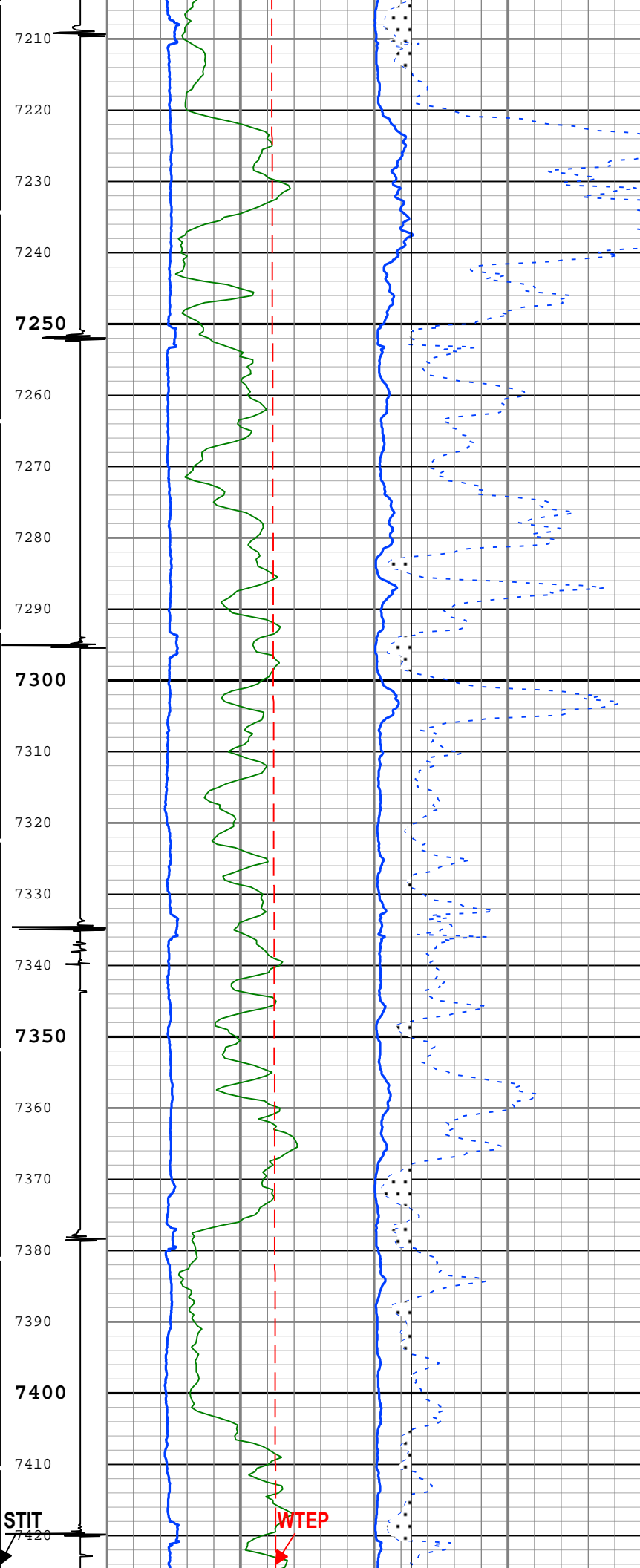


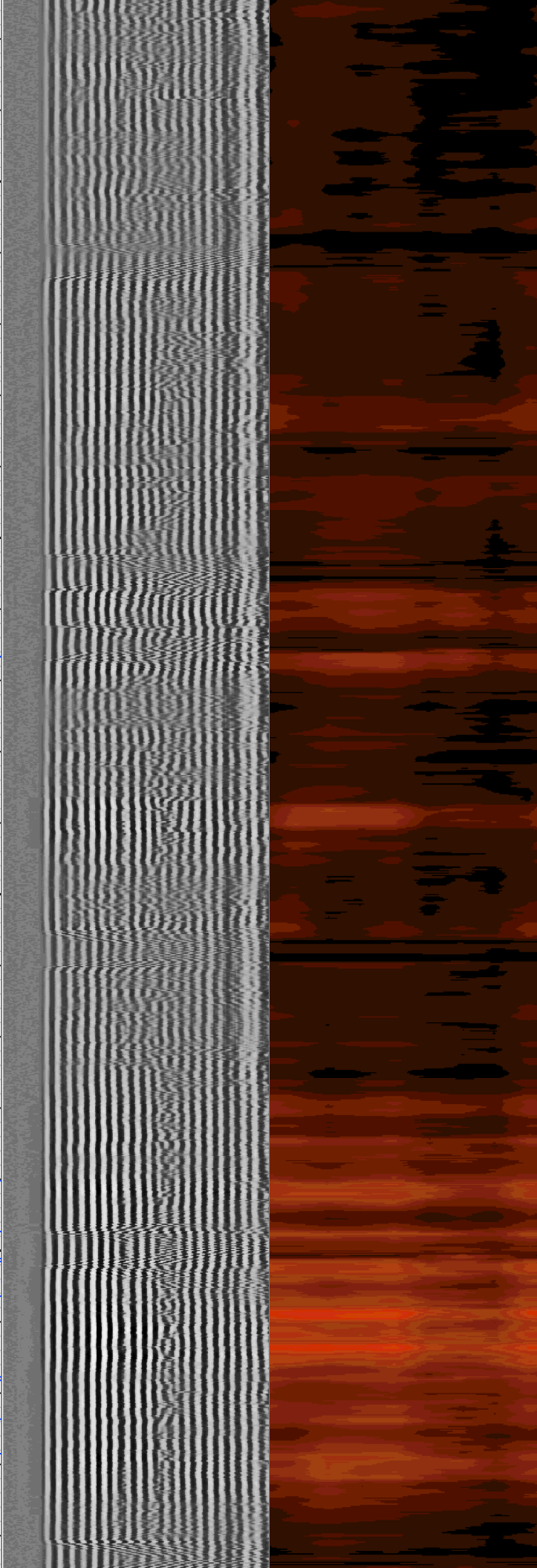
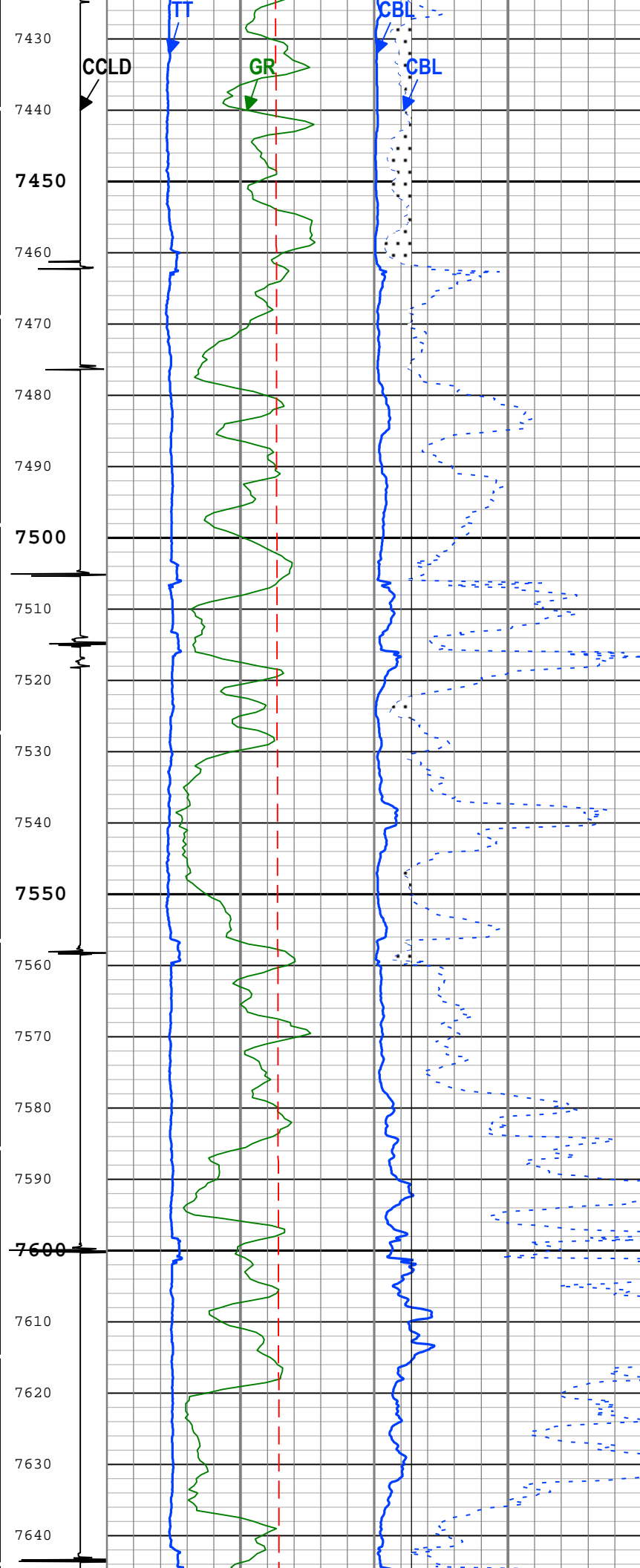


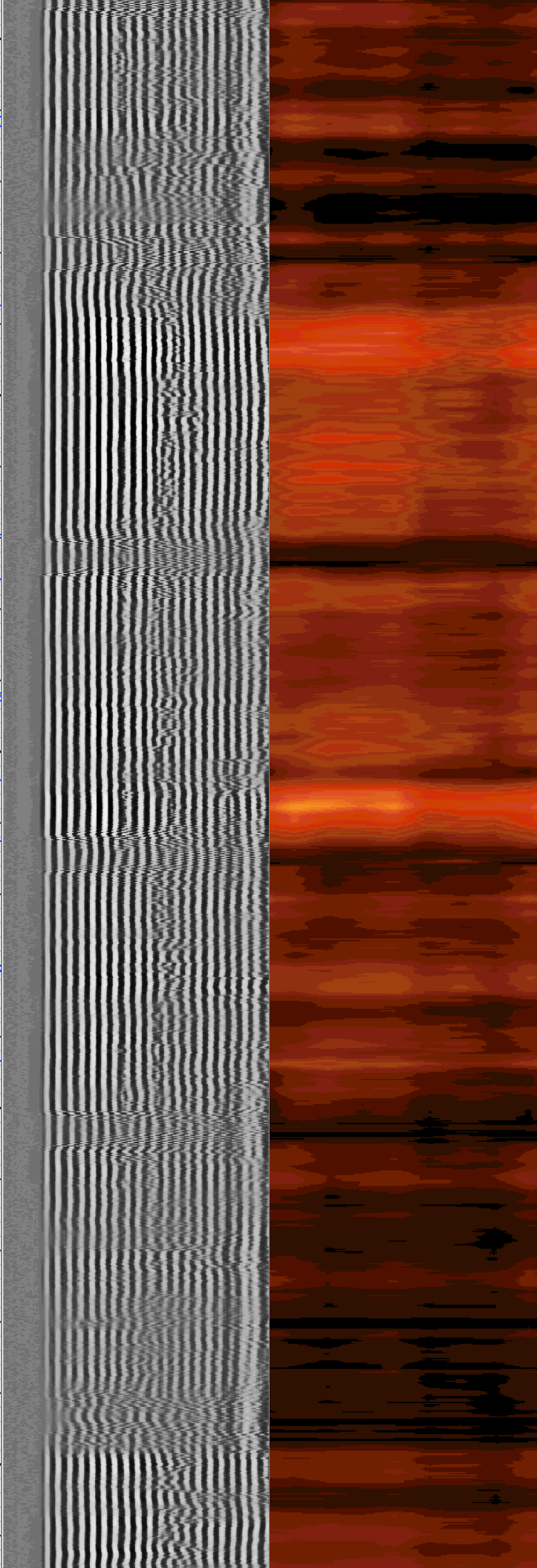
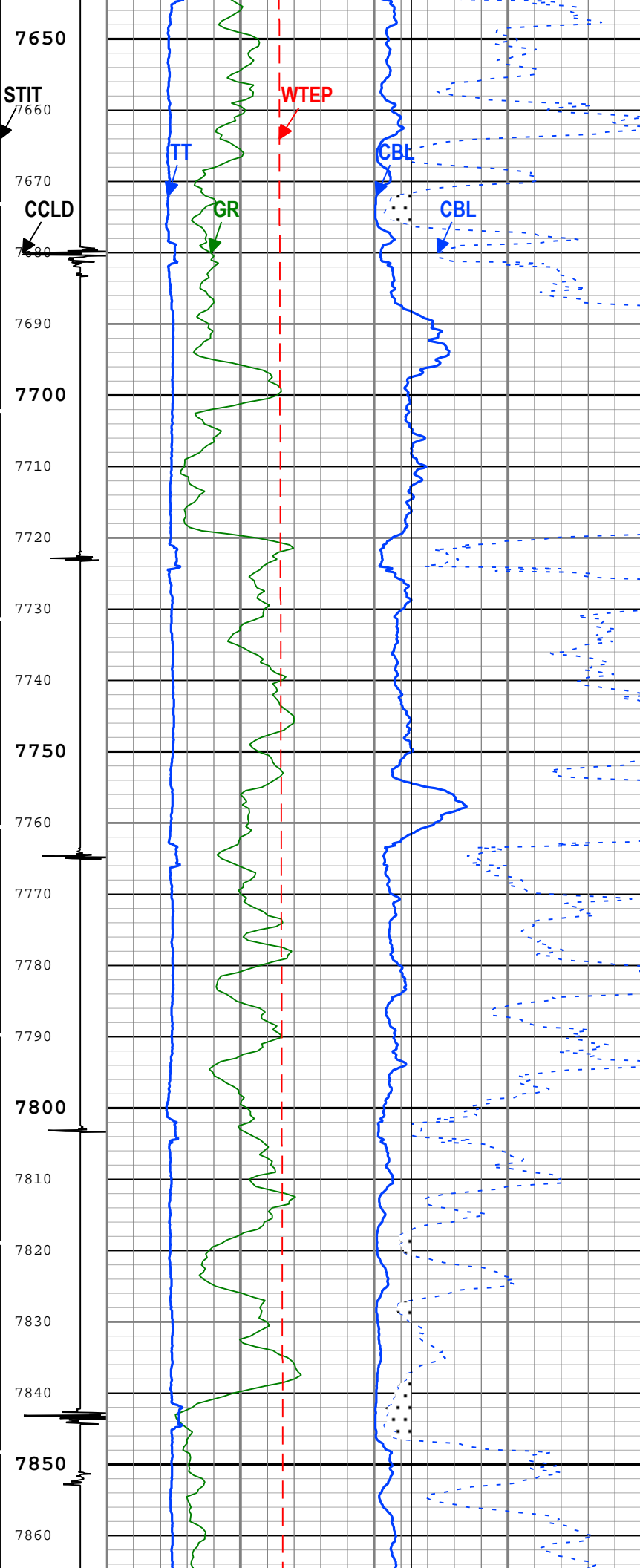


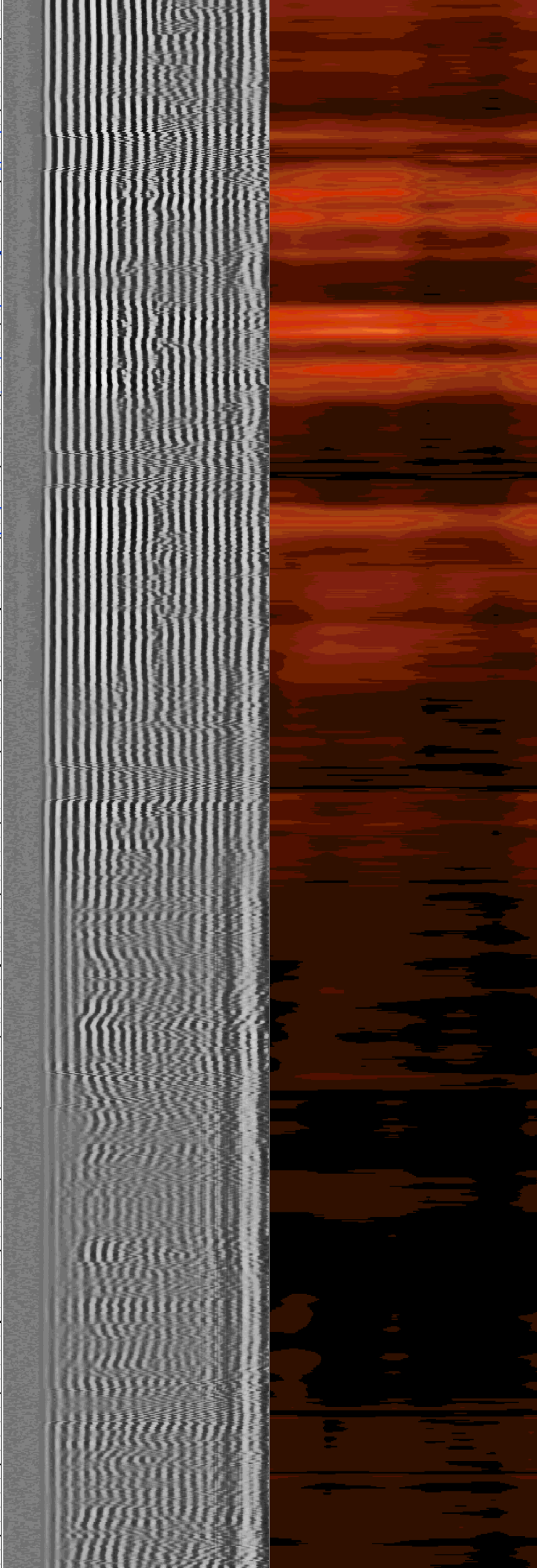
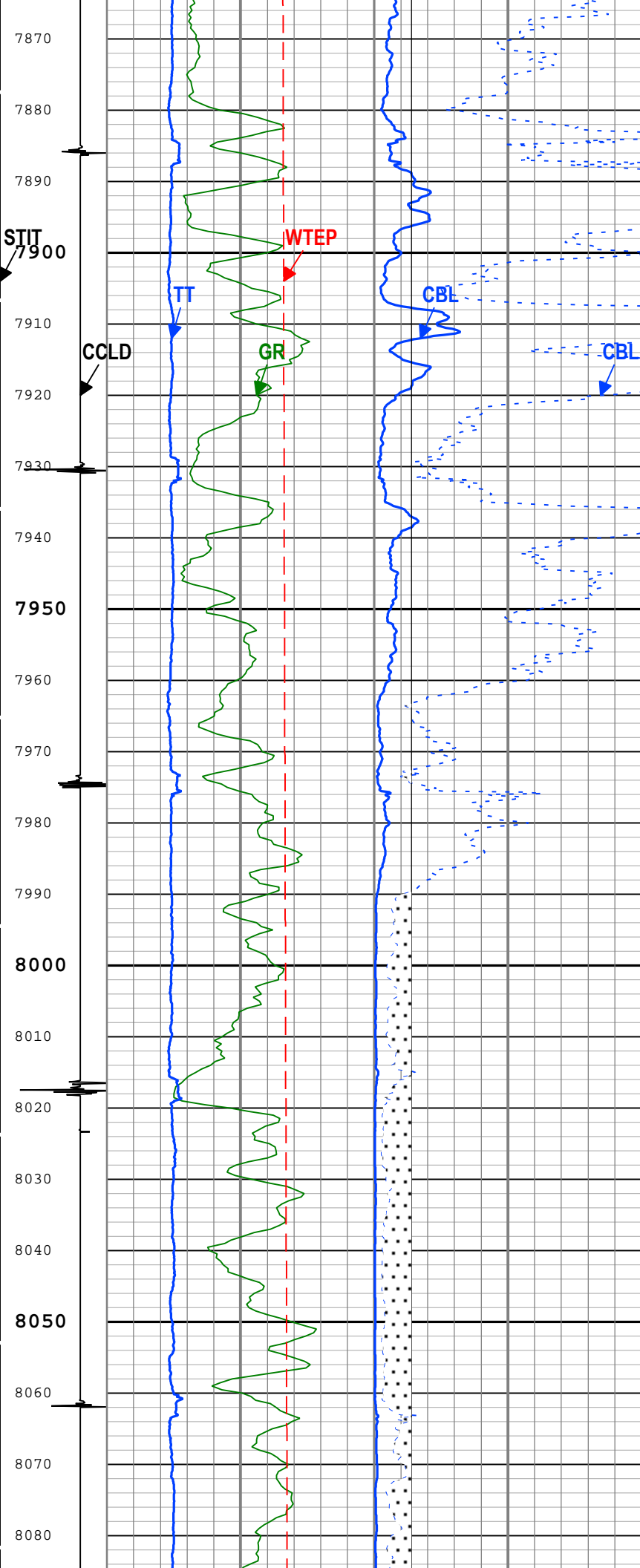


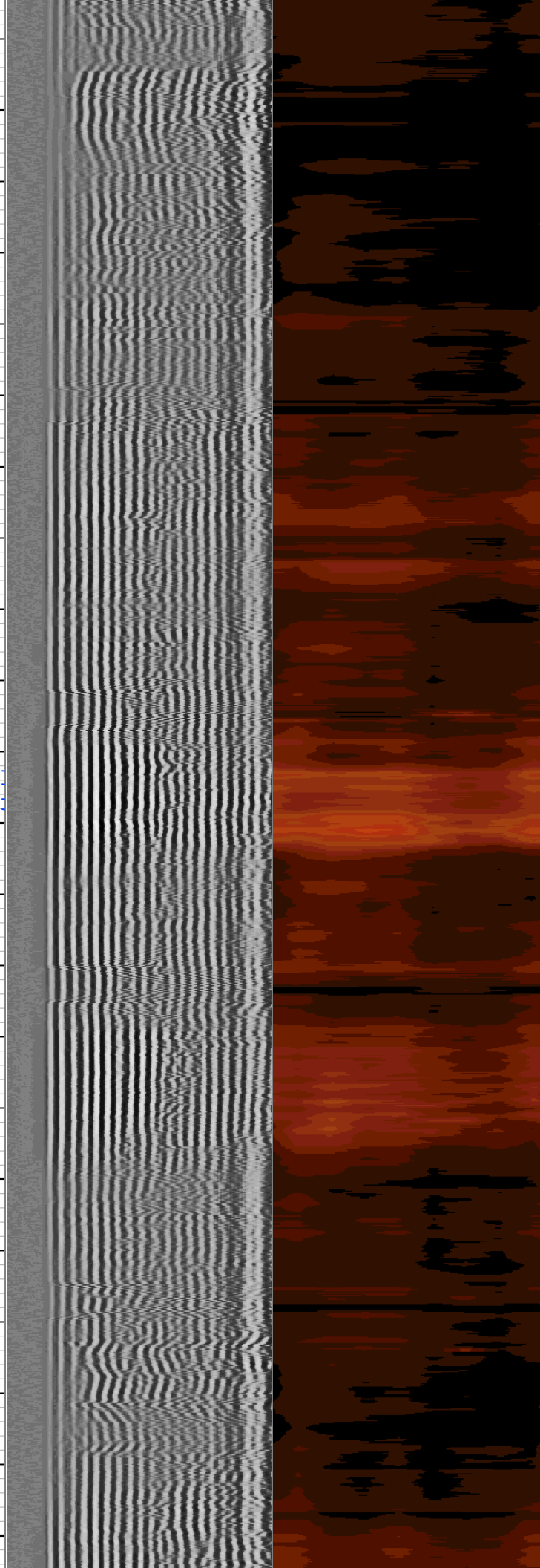
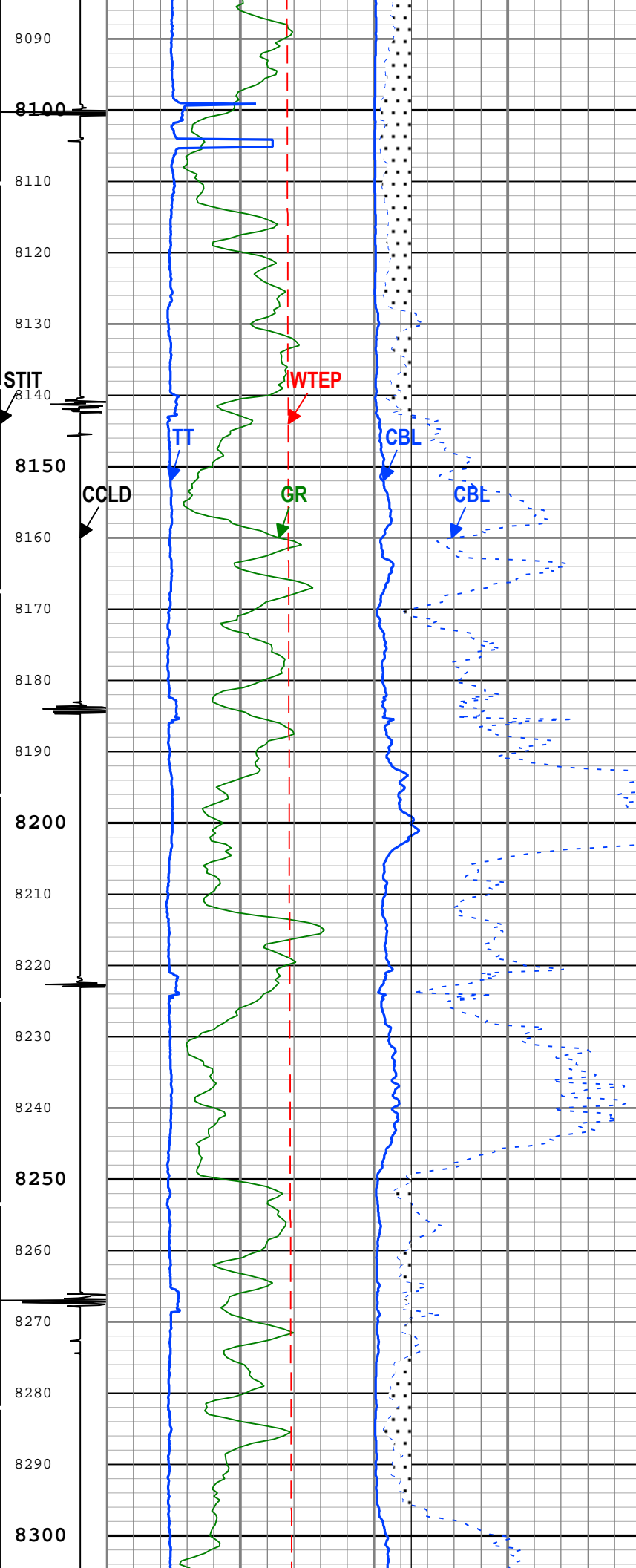


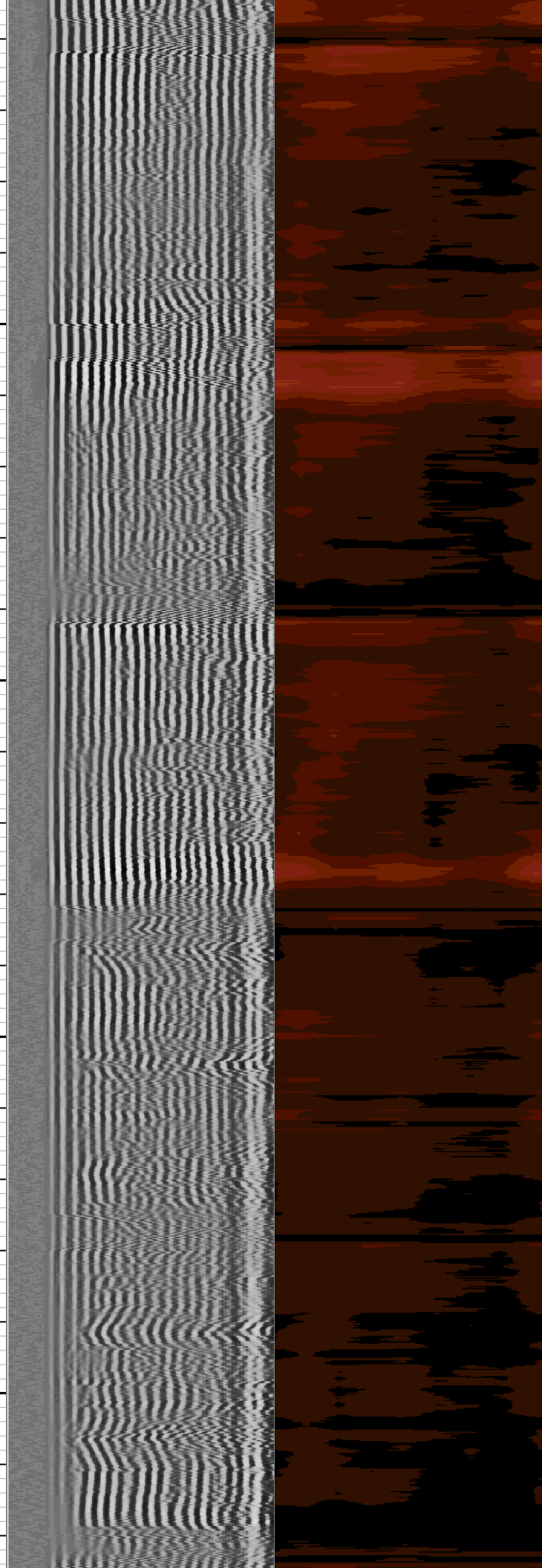
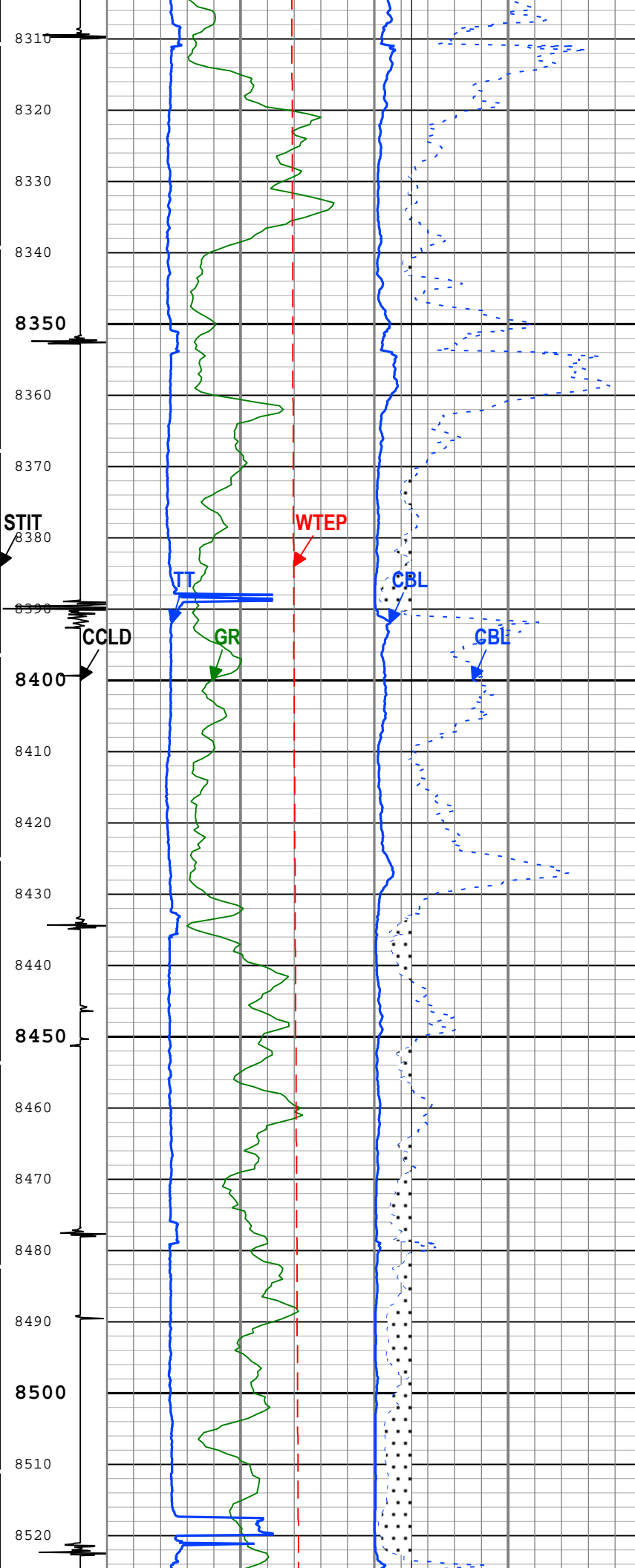


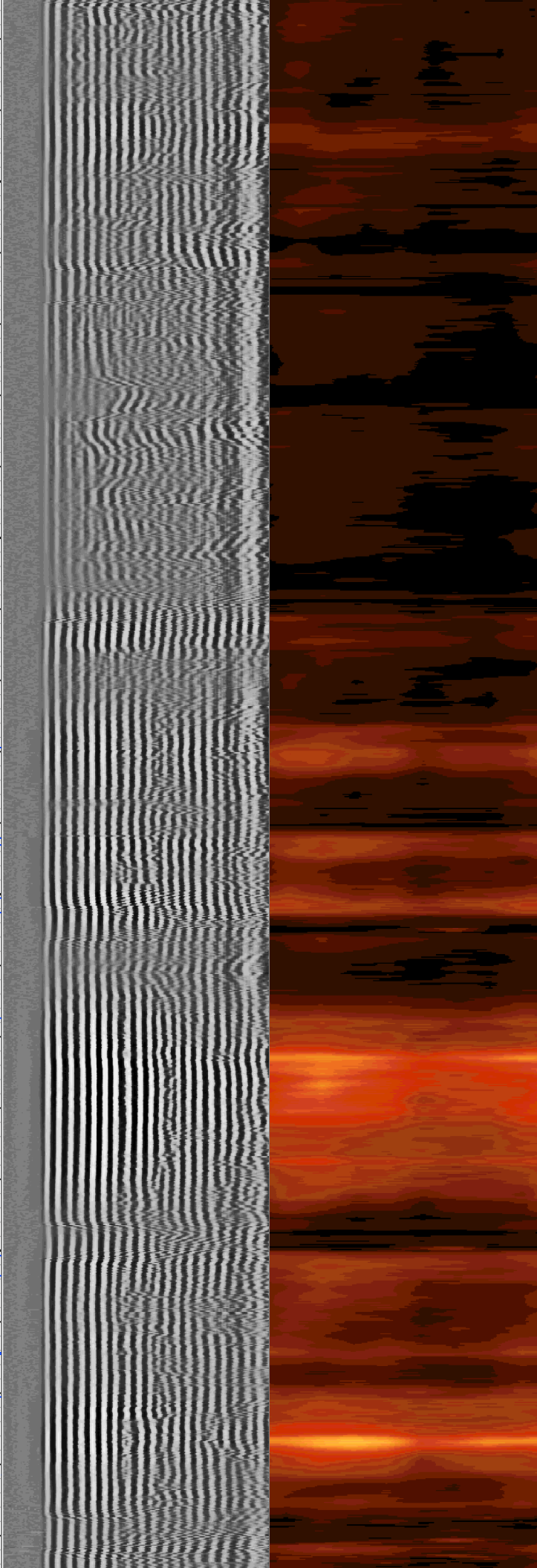
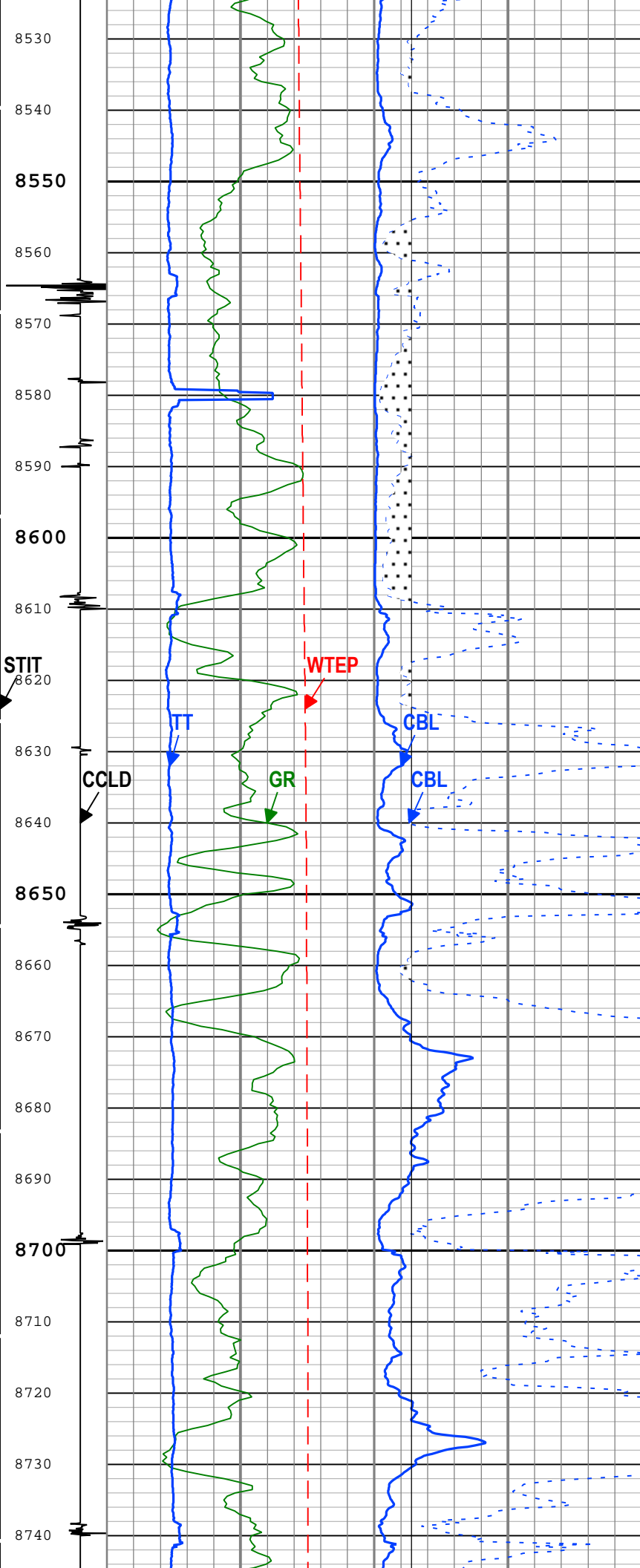


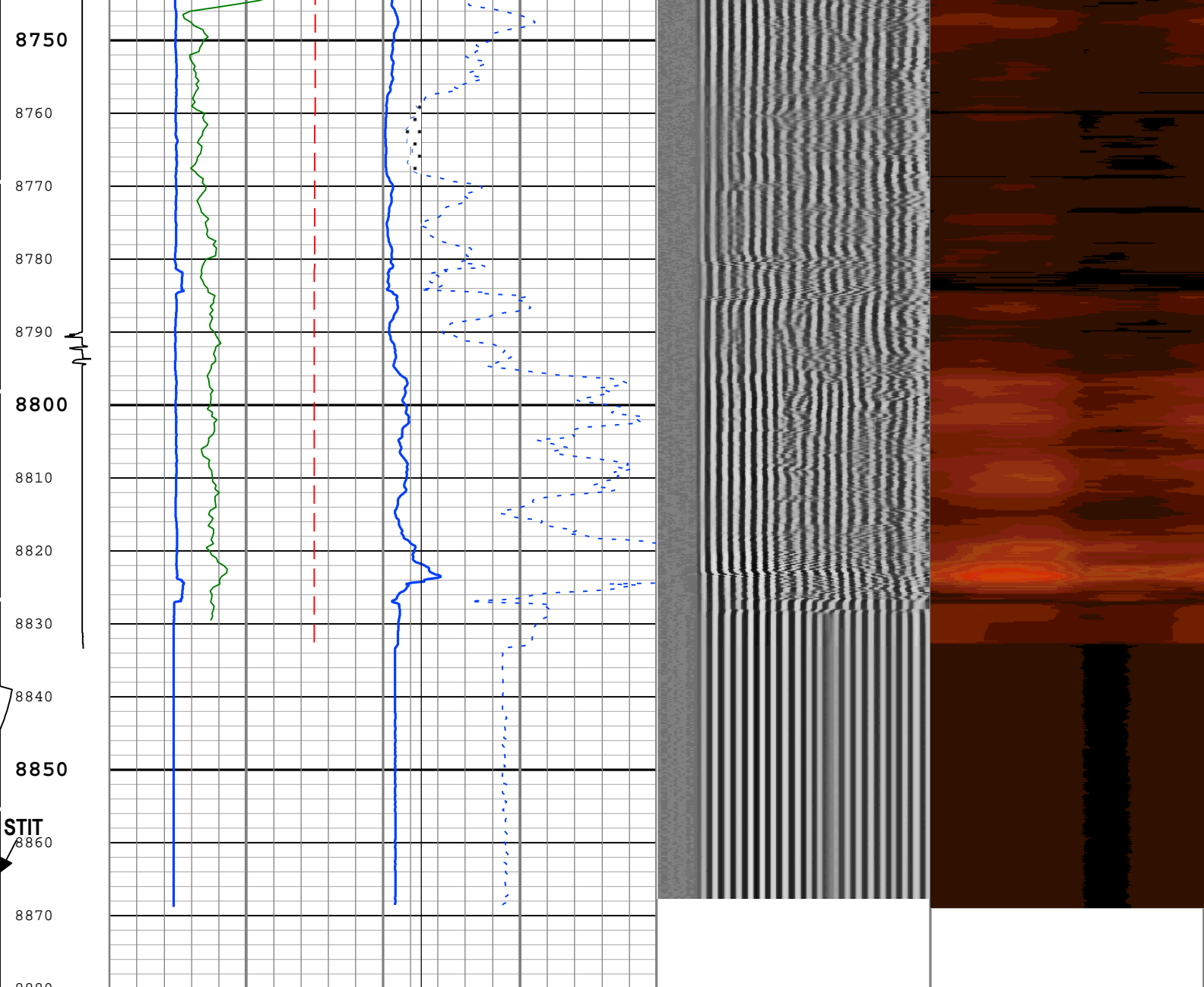










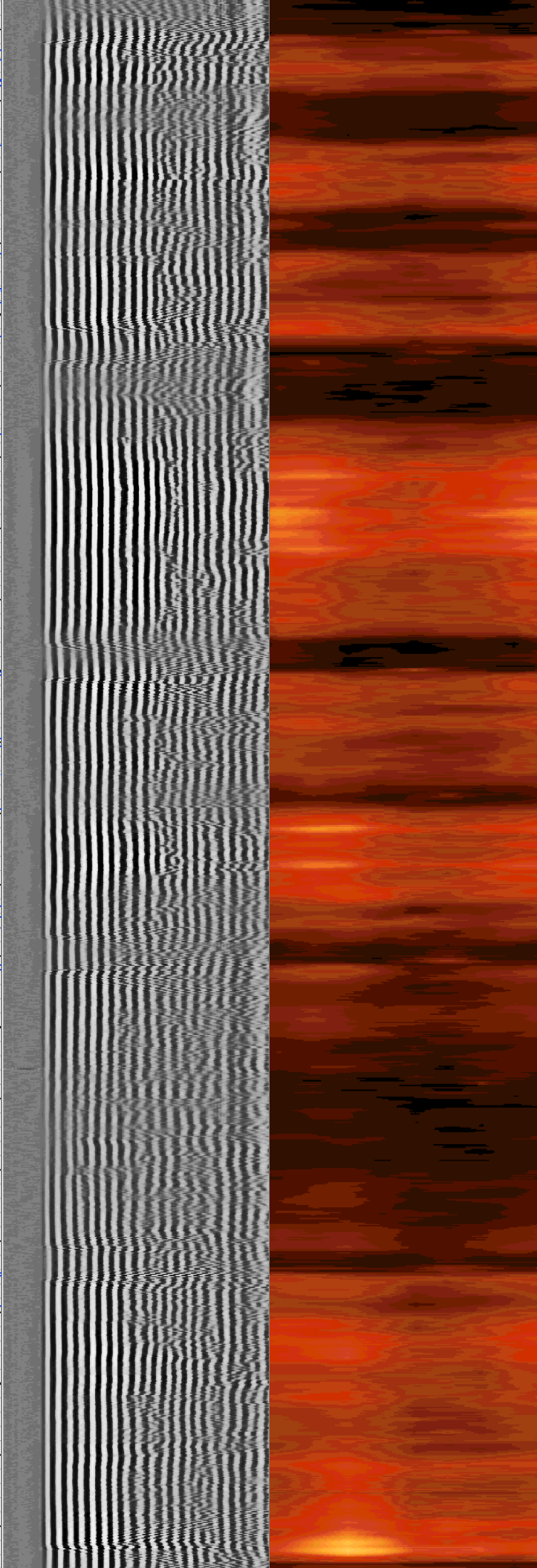
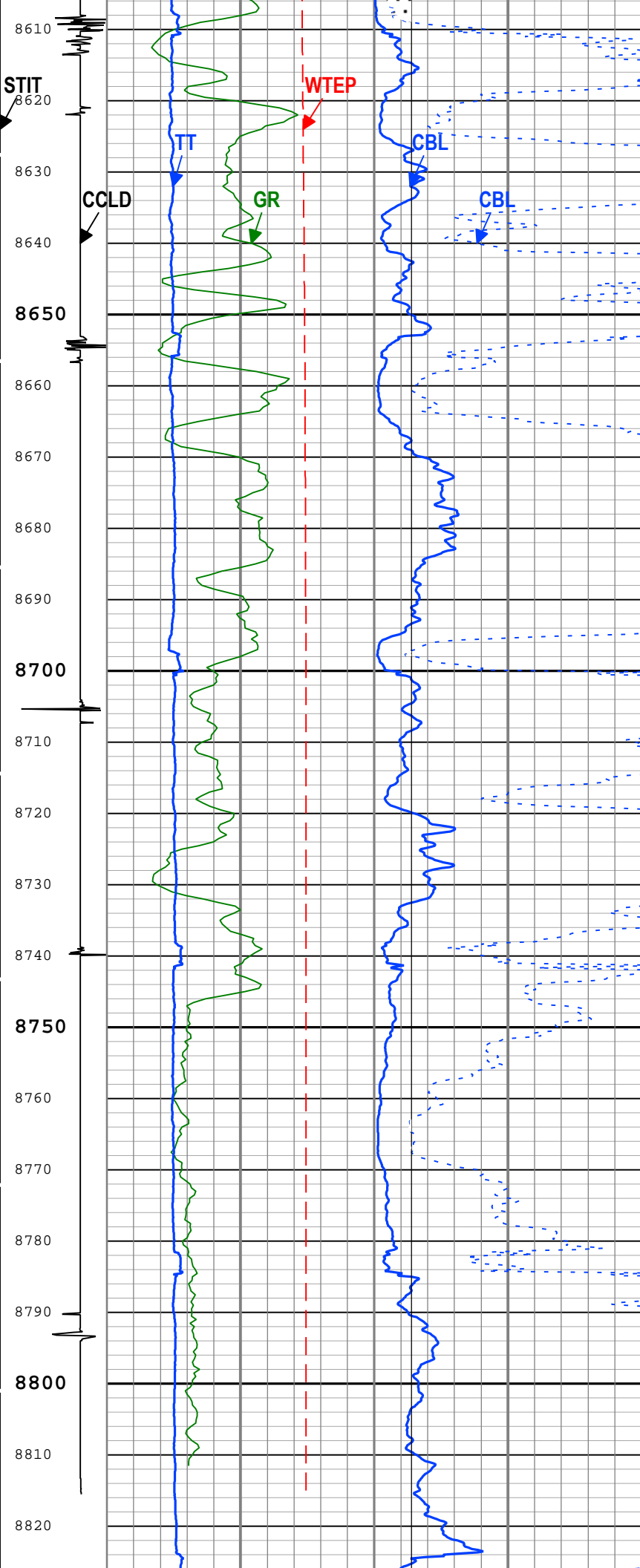


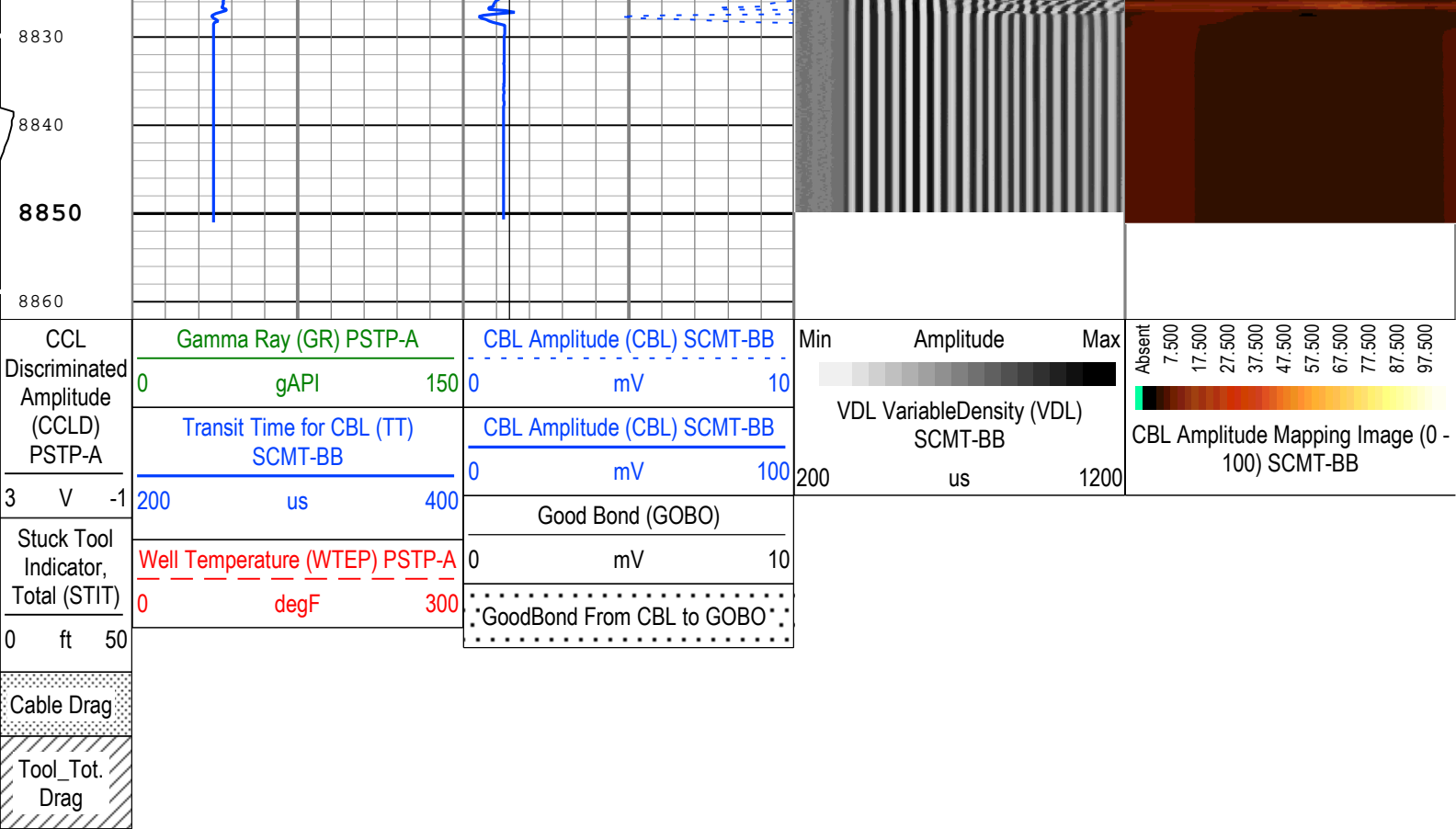
CCL	Gamma Ray (GR) PSTP-A		CBL Amplitude (CBL) SCMT-BB		Min	Amplitude	Max	Absent 7,500 17,500 27,500 37,500 47,500 57,500 67,500 77,500 87,500 97,500										
Discriminated Amplitude (CCLD) PSTP-A	0	gAPI 150	0	mV 10	200	VDL VariableDensity (VDL) SCMT-BB us 1200		CBL Amplitude Mapping Image (0 - 100) SCMT-BB										
	Transit Time for CBL (TT) SCMT-BB		CBL Amplitude (CBL) SCMT-BB															
3 V -1	200	us 400	0	mV 100														
Stuck Tool Indicator, Total (STIT)			Good Bond (GOBO)															
	Well Temperature (WTEP) PSTP-A		0 mV 10															
0 ft 50	0	degF 300	GoodBond From CBL to GOBO															

Channel Processing Parameters					
ONE: Parameters					
Parameter	Description	Tool	Value	Unit	

BHT	Bottom Hole Temperature	Borehole	225	degF
CB3D	SCMT CBL 3 ft Peak Detection Mode	SCMT-BB	Peak	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-BB	224	us
CB3T	SCMT CBL 3 ft Fixed Threshold Level	SCMT-BB	20	mV
CBLG	CBL Gate Width	SCMT-BB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-BB	80	mV
CMCF	CBL Cement Type Compensation Factor	SCMT-BB	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
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8479	ft
ETEM	HP Estimated Temperature	PSTP-A	212	degF
FCF	CBL Fluid Compensation Factor	SCMT-BB	0.89	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST	
M1EF	MAP sensitivity equalization factor of receiver 1	SCMT-BB	1.16	
M2EF	MAP sensitivity equalization factor of receiver 2	SCMT-BB	1.89	
M3EF	MAP sensitivity equalization factor of receiver 3	SCMT-BB	1.43	
M4EF	MAP sensitivity equalization factor of receiver 4	SCMT-BB	0.64	
M5EF	MAP sensitivity equalization factor of receiver 5	SCMT-BB	0.54	
M6EF	MAP sensitivity equalization factor of receiver 6	SCMT-BB	0.64	
M7EF	MAP sensitivity equalization factor of receiver 7	SCMT-BB	0.97	
M8EF	MAP sensitivity equalization factor of receiver 8	SCMT-BB	1.22	
MAPD	SCMT MAP Peak Detection Mode	SCMT-BB	Peak	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-BB	167	us
MAPT	SCMT MAP Fixed Threshold Level	SCMT-BB	30	mV
MCCF	MAP Cement Type Compensation Factor	SCMT-BB	0.25	
MMSA	MAP Minimum Sonic Amplitude	SCMT-BB	3.98	mV
MSA	Minimum Sonic Amplitude	SCMT-BB	0.51	mV
PTCO	PBMS Pressure Temperature Correction Option	PSTP-A	Gauge Temperature	
PDAT	Permanent Datum	WLSESSION	GL	
RBC	Relative Bearing Correction Allow/Disallow	SCMT-BB	Allow	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
SHT	Surface Hole Temperature	Borehole	68	degF
VDLG	VDL Manual Gain	SCMT-BB	5	

Tool Control Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-BB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	36 dB	
ONE				
Repeat Pass 0 PSI				





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: 05-Aug-2015 18:20:36

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	225	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-BB	224	us
CBLG	CBL Gate Width	SCMT-BB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-BB	80	mV
CMCF	CBL Cement Type Compensation Factor	SCMT-BB	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
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8479	ft
FCF	CBL Fluid Compensation Factor	SCMT-BB	0.89	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST	
M1EF	MAP sensitivity equalization factor of receiver 1	SCMT-BB	1.16	
M2EF	MAP sensitivity equalization factor of receiver 2	SCMT-BB	1.89	
M3EF	MAP sensitivity equalization factor of receiver 3	SCMT-BB	1.43	
M4EF	MAP sensitivity equalization factor of receiver 4	SCMT-BB	0.64	
M5EF	MAP sensitivity equalization factor of receiver 5	SCMT-BB	0.54	
M6EF	MAP sensitivity equalization factor of receiver 6	SCMT-BB	0.64	
M7EF	MAP sensitivity equalization factor of receiver 7	SCMT-BB	0.97	

M8EF	MAP sensitivity equalization factor of receiver 8	SCMT-BB	1.22	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-BB	167	us
MCCF	MAP Cement Type Compensation Factor	SCMT-BB	0.25	
MMSA	MAP Minimum Sonic Amplitude	SCMT-BB	3.98	mV
MSA	Minimum Sonic Amplitude	SCMT-BB	0.51	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
SHT	Surface Hole Temperature	Borehole	68	degF

Tool Control Parameters

ONE: Parameters

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

Calibration Report

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

Primary Equipment :			
Slim Cement Mapping Sonde		SCMS-BB	8002

CBL and MAP Amplitude Adjustment - Measurements

Before (Manual Entry):		17:57:06 05-Aug-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):		17:57:06 05-Aug-2015					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Adjustment Factor		Before			0.950		
CBL LQC Reference Amplitude in Free Pipe	mV	Before			80.00		
MAP Adjustment Factor		Before			1.009		
Depth of Before Calibration	ft	Before			2106.94		

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

Primary Equipment :			
PBMS-A		PBMS-A	1963
Calibration Parameter :			
JIG-BKGD (Jig minus background reference)		150	

PBMS Well Temp Master Calibration						
Master (EEPROM):		00:00:00 12-May-2005				
PBMS_RTD_THERM (Master)		RTD Coefficients				
	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tt**0	-1418.501	1118.407	-362.1241	56.89739	-3.317989	0

PBMS Gamma Ray Master Calibration		
Master (EEPROM):		00:00:00 01-Dec-2003
PBMS_GR_MODEL (Master) GR Coefficients		
	Rt**0	Rt**1

Rt**0	2000	4740
-------	------	------

PBMS A Reference Clock Master Calibration						
Master (EEPROM): 00:00:00 12-May-2005						
PBMS_REF_CLOCK PBMS A Clock Coefficients (Master)						
	Temp**0	Temp**1	Temp**2	Temp**3	Temp**4	Temp**5
Temp**0	45.0069	-9.445683	-0.02744274	0.0002354008	3.654205E-06	0

PBMS A Sapphire Master Calibration						
Master (EEPROM): 00:00:00 12-May-2005						
PBMS_P_GAUGE_PRES Sapphire Pressure Model Coefficients (Master)						
	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tp**0	4187.029	-3429.79	773.3541	-119.1729	7.244876	0
Tp**1	698.9312	545.2234	21.97955	-3.948855	0.2235462	0
Tp**2	-6.430802	9.633142	-3.005254	0	0	0
Tp**3	-2.550163	0.6971294	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	-293.9637	10.31608	-5.693609	1.308318	-0.1107738	0
Tt**1	63.53009	-2.347224	1.230874	-0.2610083	0.02165993	0
Tt**2	8.593975	0.03386374	-0.01621674	0	0	0
Tt**3	-0.487141	0.005250175	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 43B-2

Field: Wildcat

County: Garfield

Country: US

Slim Cement Mapping Tool

CBL-VDL