

Company: Noble Energy Inc

Well: Moser H34-750

Field: Wattenberg

County: Weld State: Colorado

Slim Cement Mapping Tool  
Cement Evaluation

County:	Weld
Field:	Wattenberg
Location:	SESW Sec.22, T3N, R65W
Well:	Moser H34-750
Company:	Noble Energy Inc
Location:	
SESW Sec.22, T3N, R65W	Elev.: K.B. 4840.00 ft
SHL: 400' FSL x 2221' FWL	G.L. 4810.00 ft
Lat: 40.204760/ Long: -104.651330	D.F. 4839.00 ft
Permanent Datum:	Ground Level
Log Measured From:	Kelly Bushing
Drilling Measured From:	Kelly Bushing
API Serial No.	Section: 22
05-123-40618	Township: 3N
	Range: 65W

Logging Date	25-Nov-2015
Run Number	Run 2
Depth Driller	16800.00 ft
Schlumberger Depth	16800.00 ft
Bottom Log Interval	7220.00 ft
Top Log Interval	30.00 ft
Casing Fluid Type	Brine
Salinity	
Density	8.4 lbm/gal
Fluid Level	0.00 ft
BIT/CASING/TUBING STRING	
Bit Size	8.50 in
From	1889.00 ft
To	16800.00 ft
Casing/Tubing Size	5.5 in
Weight	20 lbm/ft
Grade	P110
From	0.00 ft
To	16790.00 ft
Max Recorded Temperatures	250.28 degF
Logger on Bottom	25-Nov-2015
Unit Number	9115
Recorded By	Aleksei Bekhterev
Witnessed By	Bill Mansfield

Disclaimer

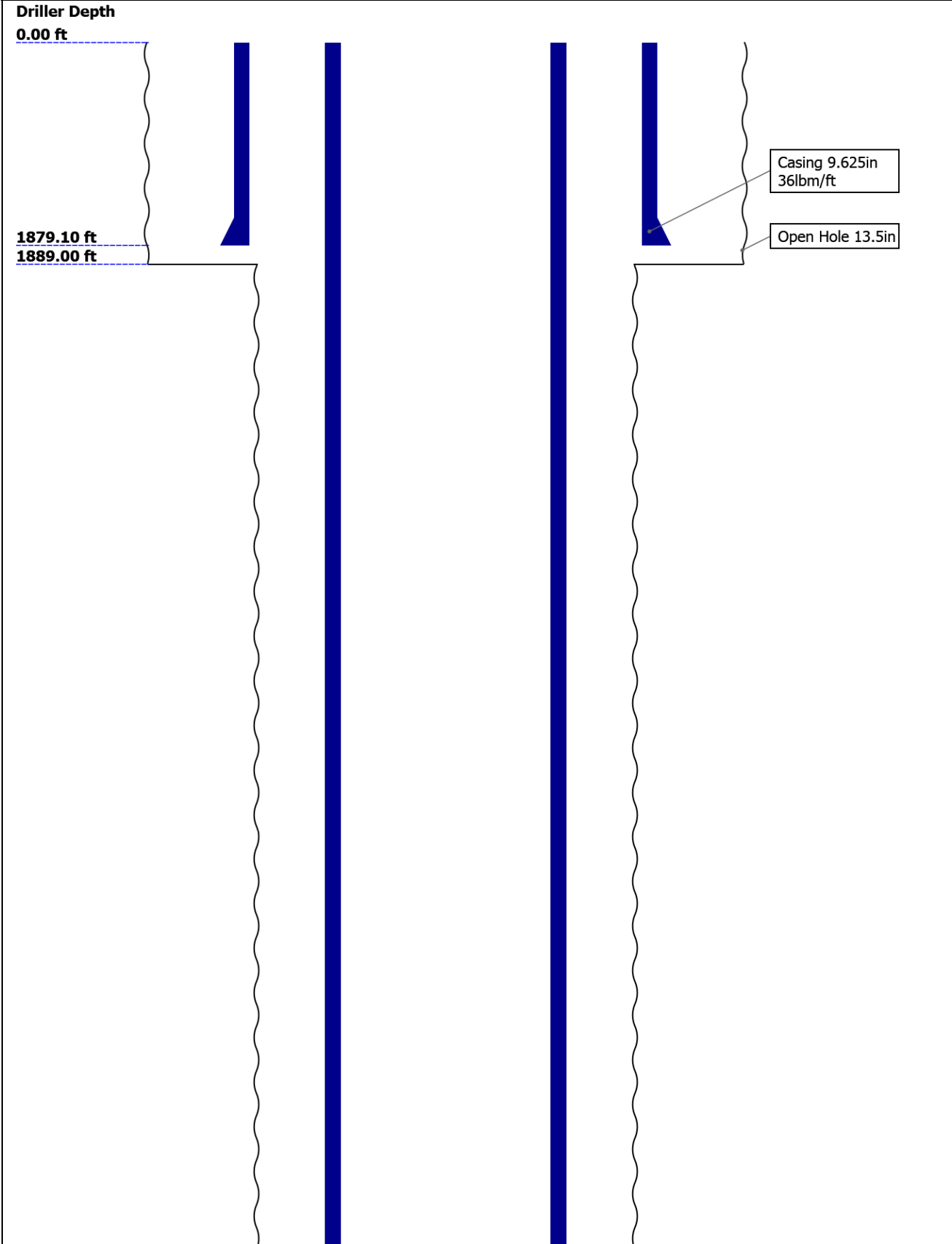
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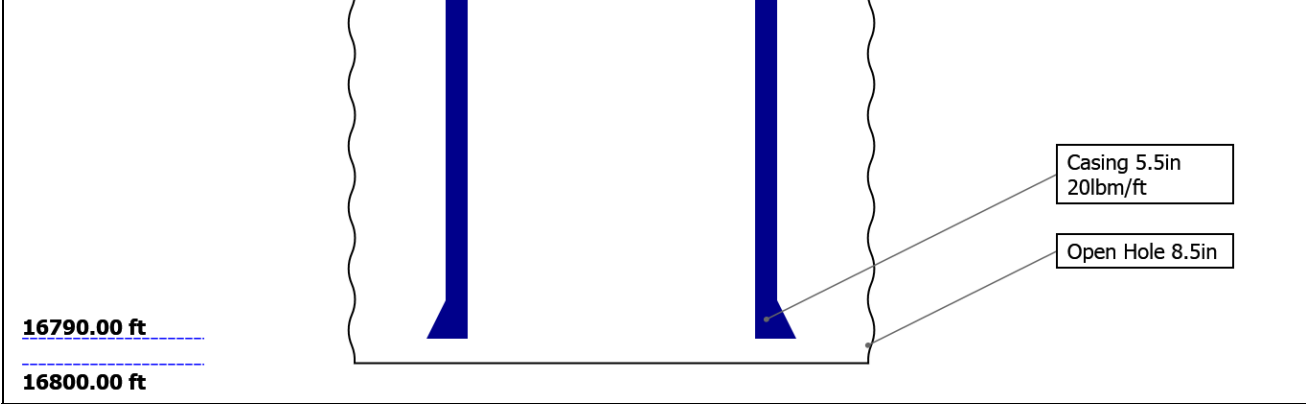
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Well Sketch





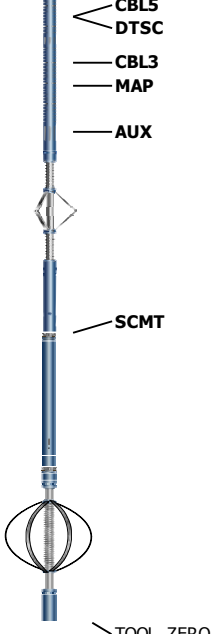
Borehole Size/Casing/Tubing Record

Bit						
Bit Size ( in )	13.5	8.5				
Top Driller ( ft )	0	1889				
Top Logger ( ft )	0	1889				
Bottom Driller ( ft )	1889	16800				
Bottom Logger ( ft )	1889	16800				
Casing						
Size ( in )	9.625	5.5				
Weight ( lbm/ft )	36	20				
Inner Diameter ( in )	8.921	4.778				
Grade	J55	P110				
Top Driller ( ft )	0	0				
Top Logger ( ft )	0	0				
Bottom Driller ( ft )	1879.1	16790				
Bottom Logger ( ft )	1879.1	16790				

Operational Run Summary

Parameter ( unit )	Run 2					
Date Log Started	25-Nov-2015					
Time Log Started	16:09:45					
Date Log Finished	25-Nov-2015					
Time Log Finished	19:50:05					
Top Log Interval ( ft )	30.00					
Bottom Log Interval ( ft )	7220.00					
Total Depth ( ft )	16800.00					
Max Hole Deviation ( deg )	0.00					
Azimuth of Max Deviation ( deg )	0.00					
Bit Size ( in )	8.500					
Logging Unit Number	9115					
Logging Unit Location	Ft. Morgan, CO					
Recorded By	Aleksei Bekhterev					



 <p>Lengths are in ft Maximum Outer Diameter = 3.375 in Line: Sensor Location, Value: Gating Offset All measurements are relative to TOOL_ZERO</p>			

Depth Summary			
	Run 2		
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	24000.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane		
Run 2:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well	All Schlumberger depth policies followed	
Rig Up Length At Surface		IDW used as primary depth device	
Rig Up Length At Bottom		Z-chart used as secondary depth reference	
Rig Up Length Correction			
Stretch Correction			

## Run 2

## Software Version

Acquisition System

Maxwell 2016

Version

6.0.52439.3100

## Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 2	Main[3]:Up	Up	71.40 ft	7254.25 ft	25-Nov-2015 5:18:44 PM	25-Nov-2015 7:34:32 PM	ON	4.02 ft	No

All depths are referenced to toolstring zero

## Log

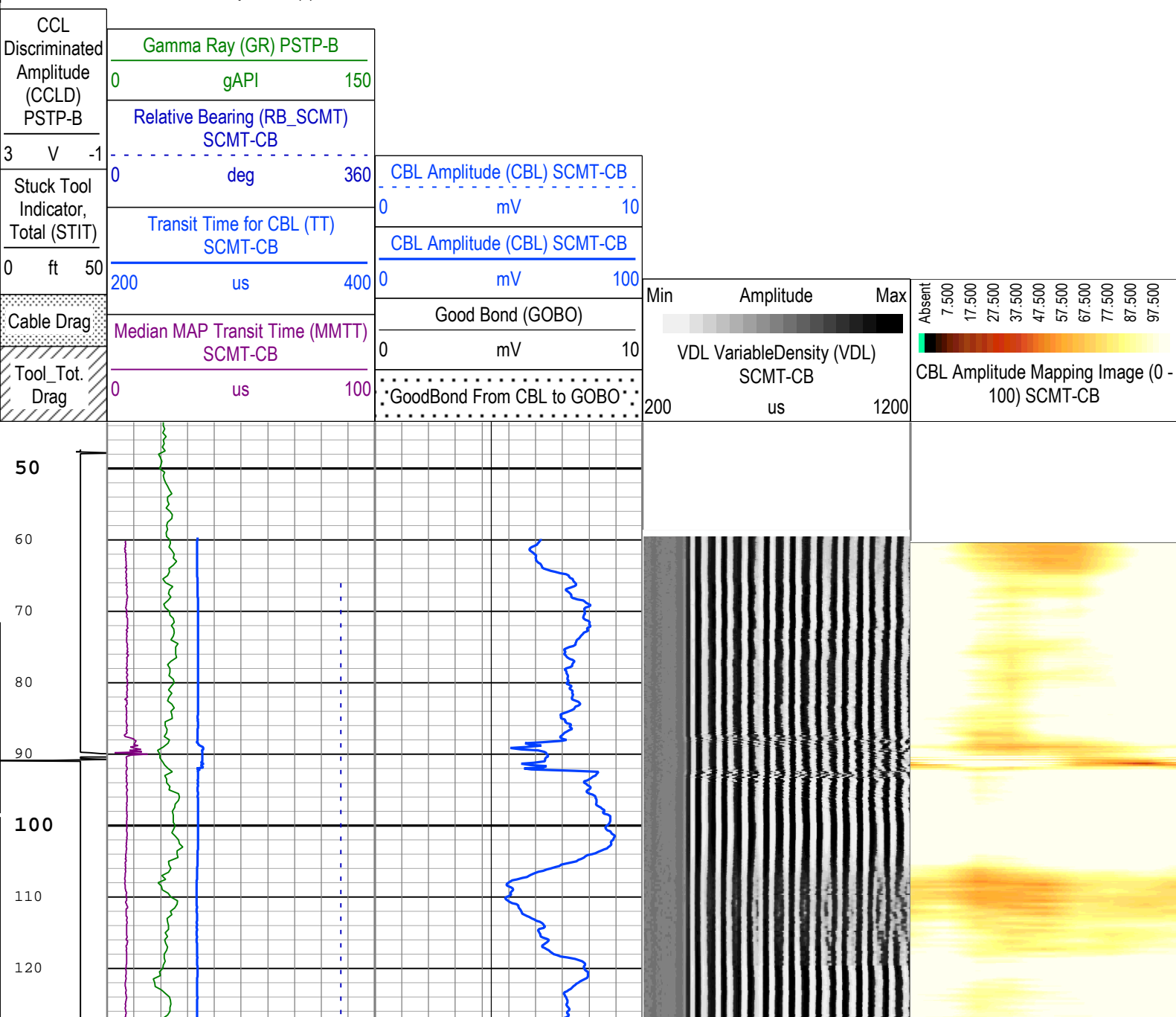
Company:Noble Energy Inc

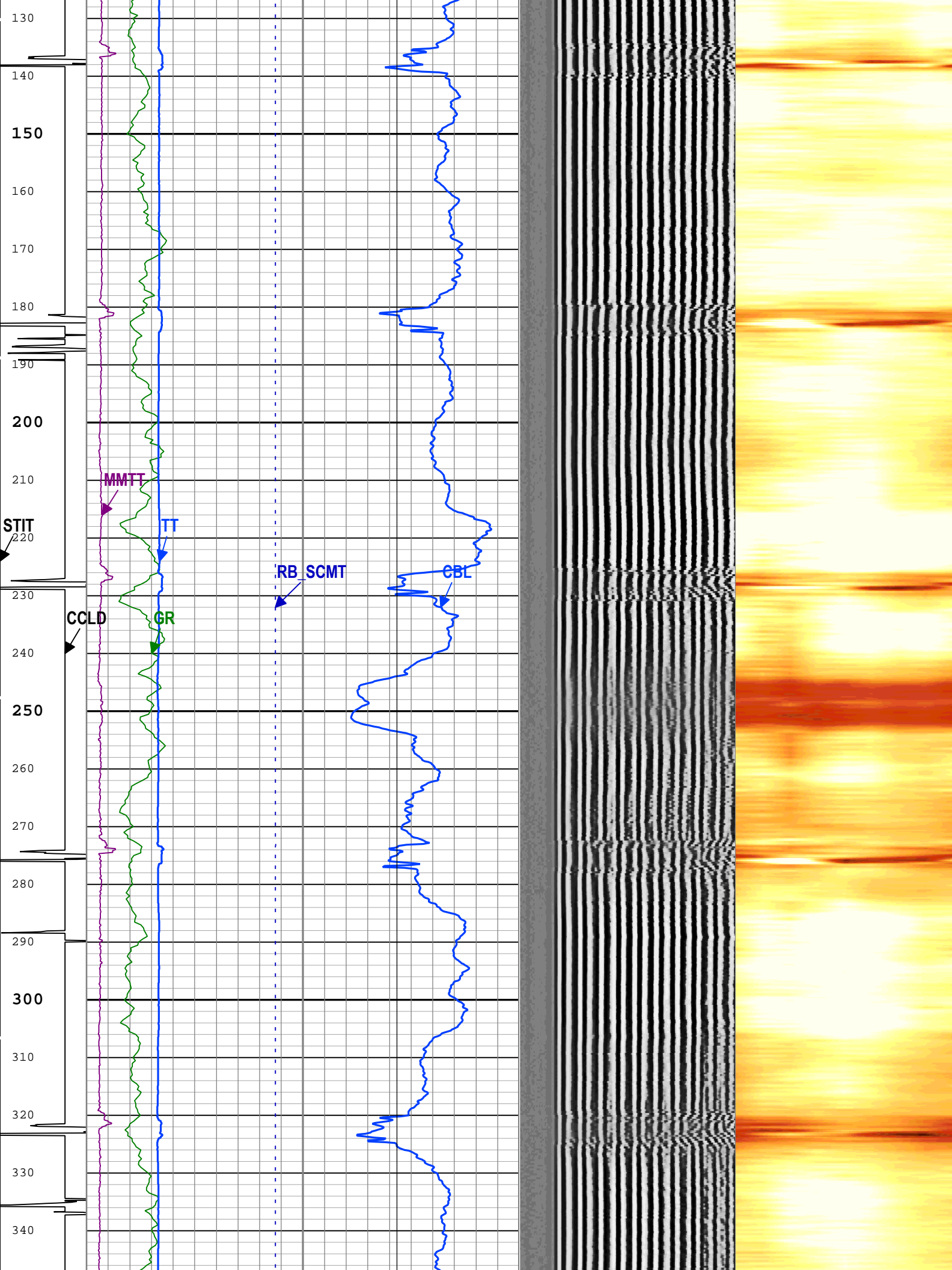
Well:Moser H34-750

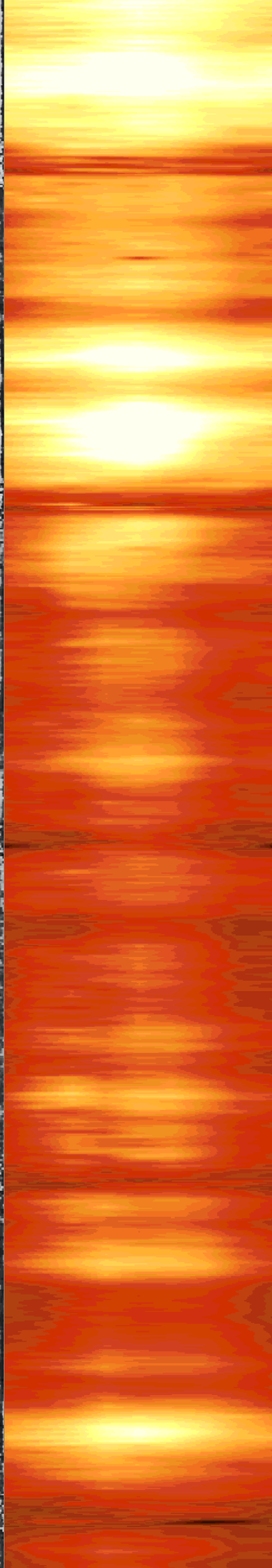
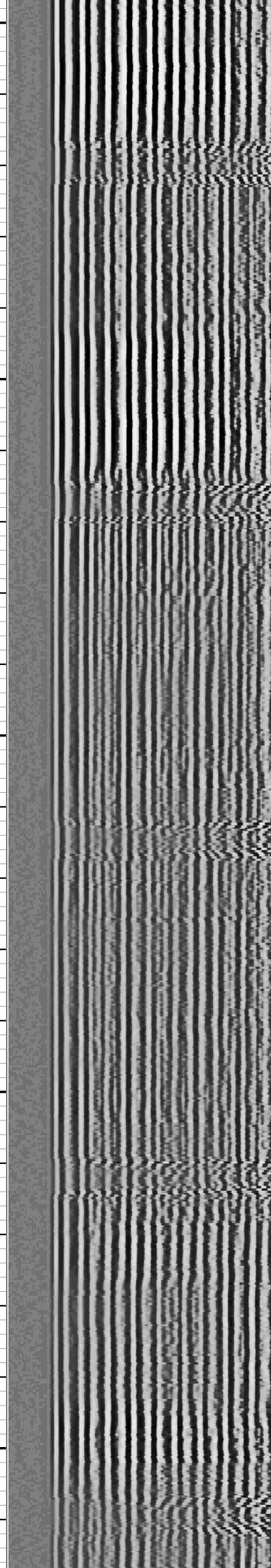
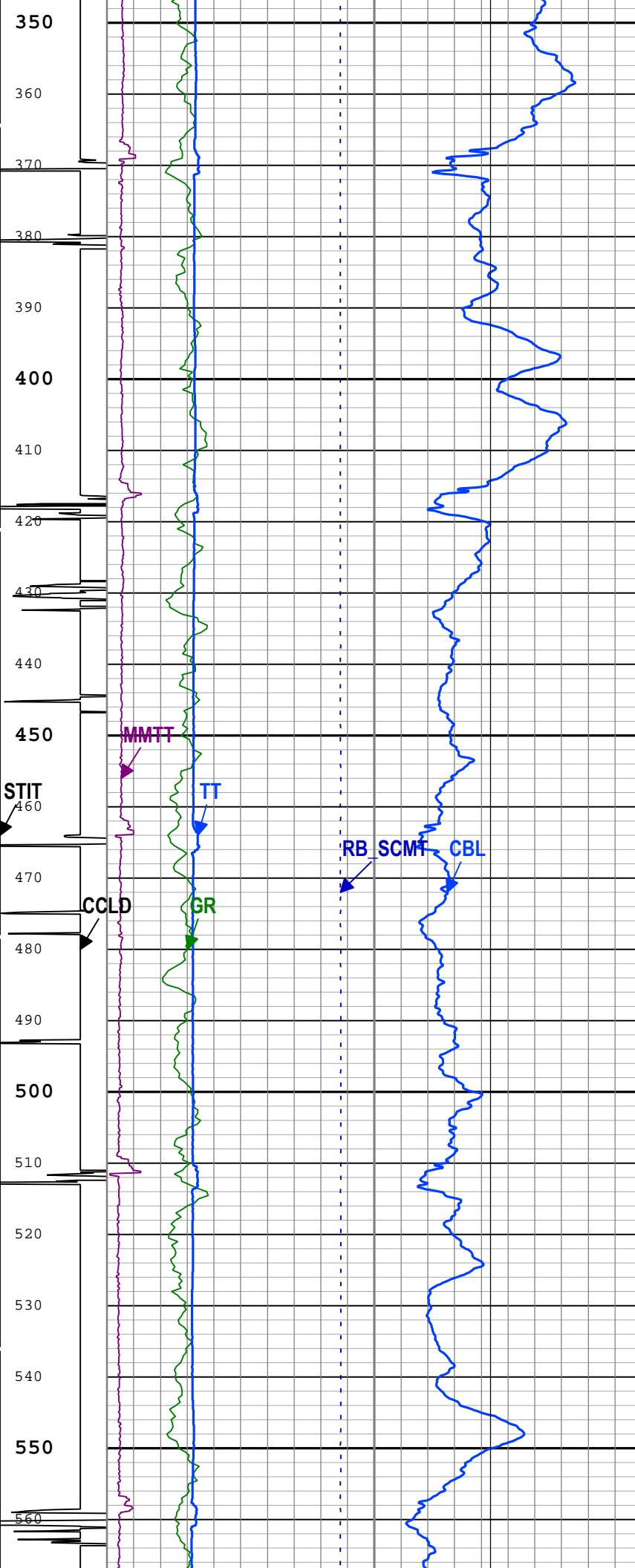
Run 2: Main[3]:Up:S042

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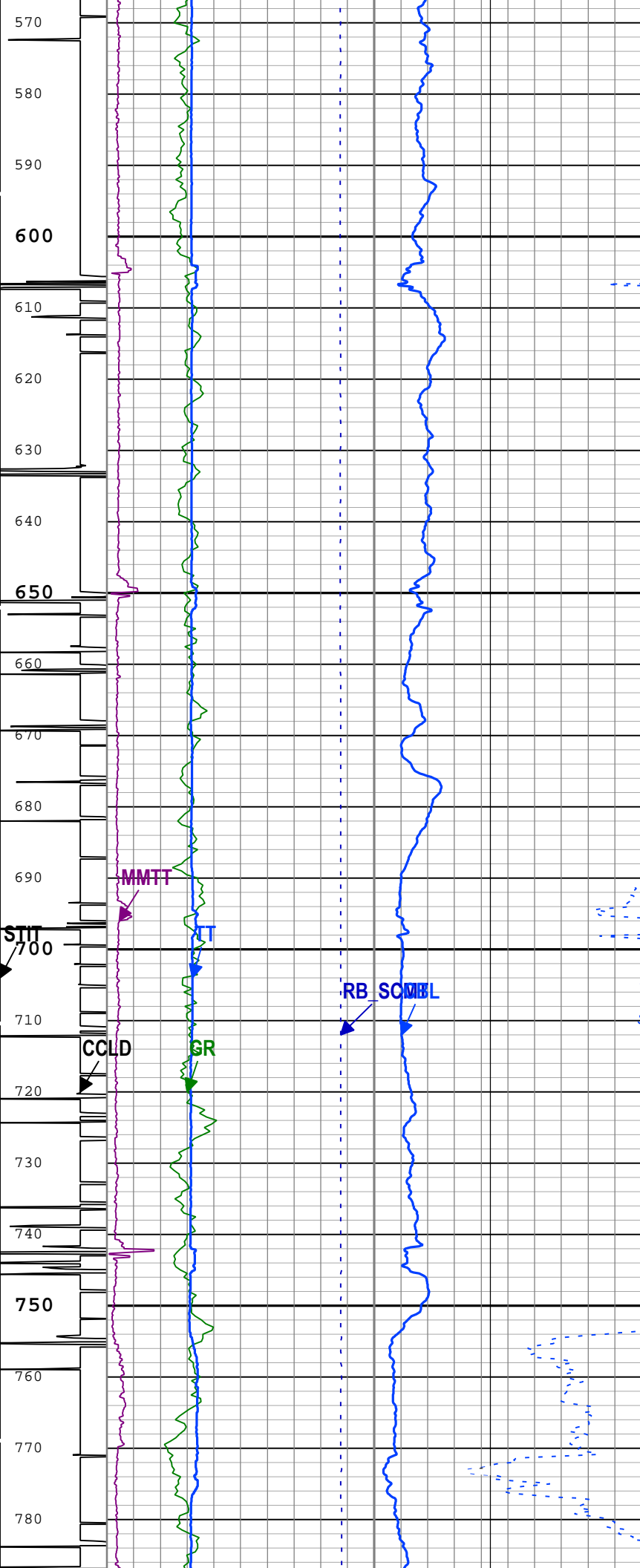
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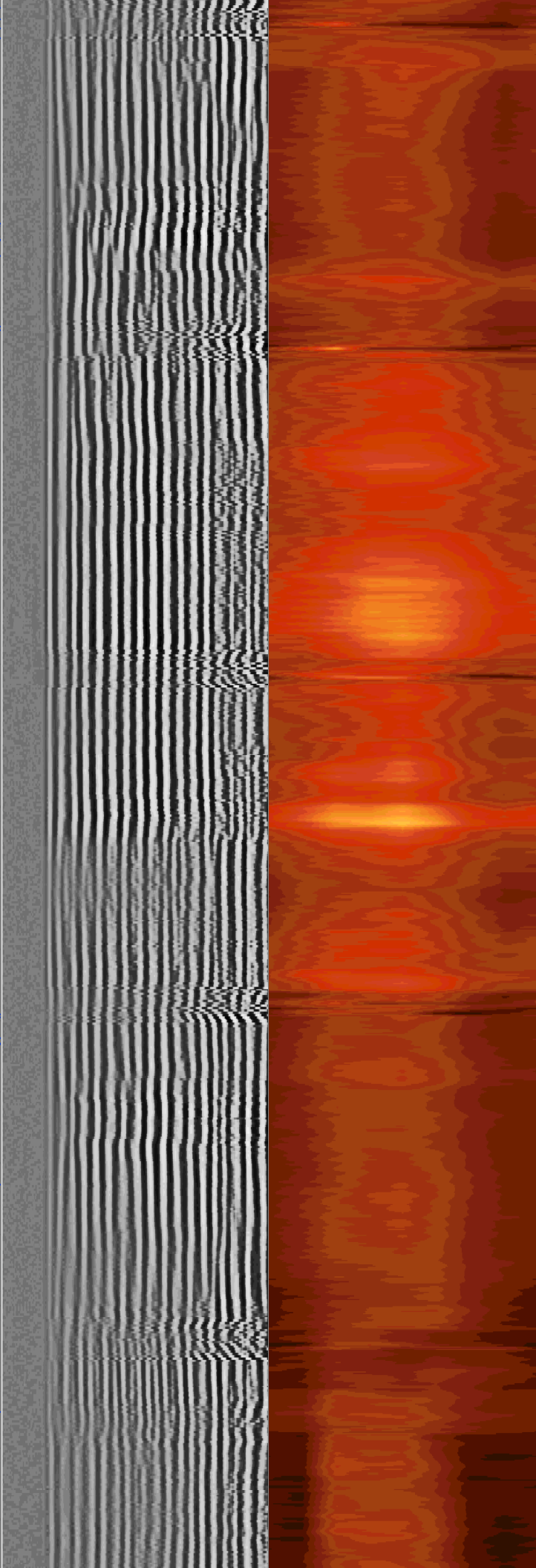
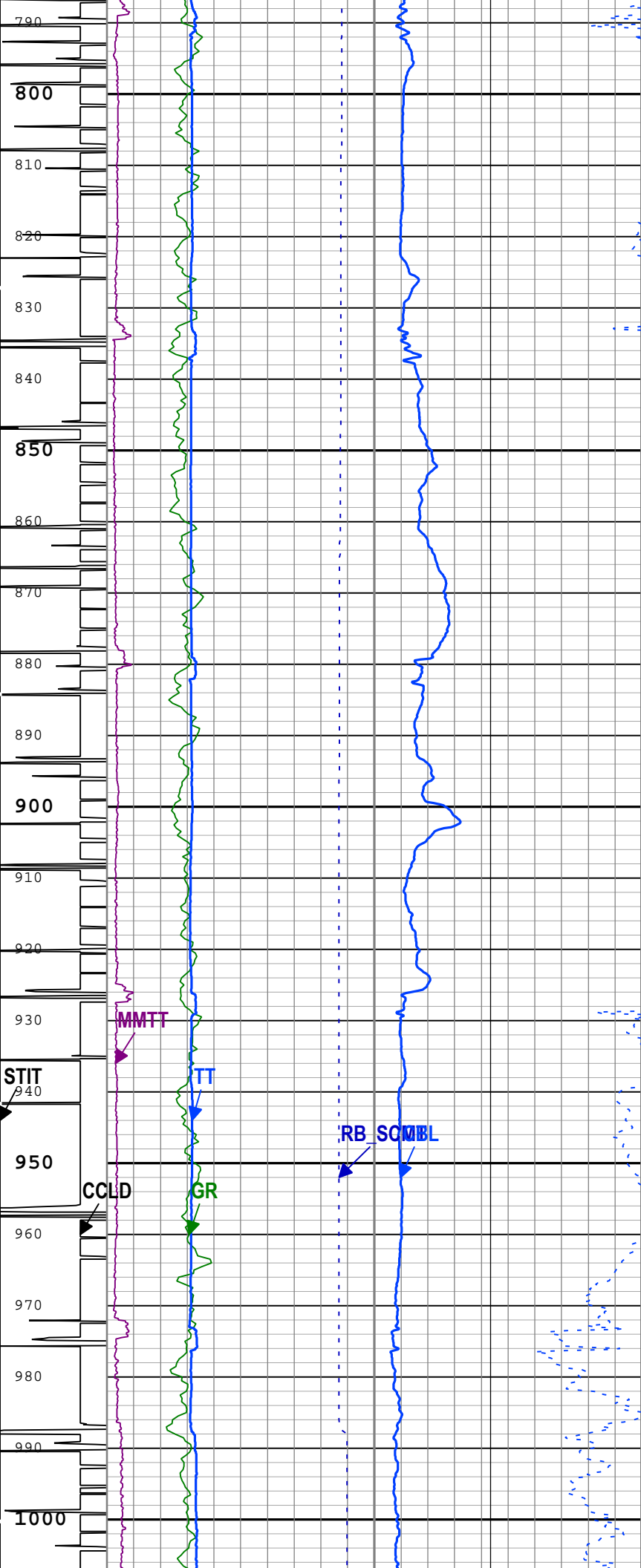


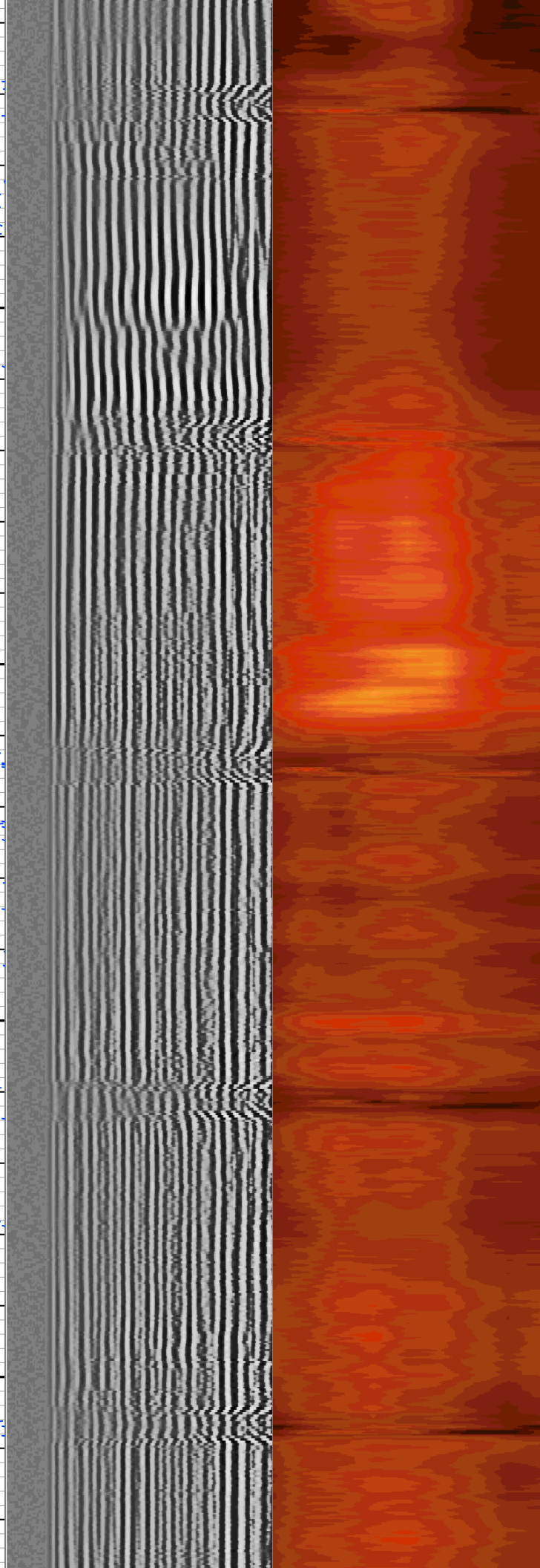
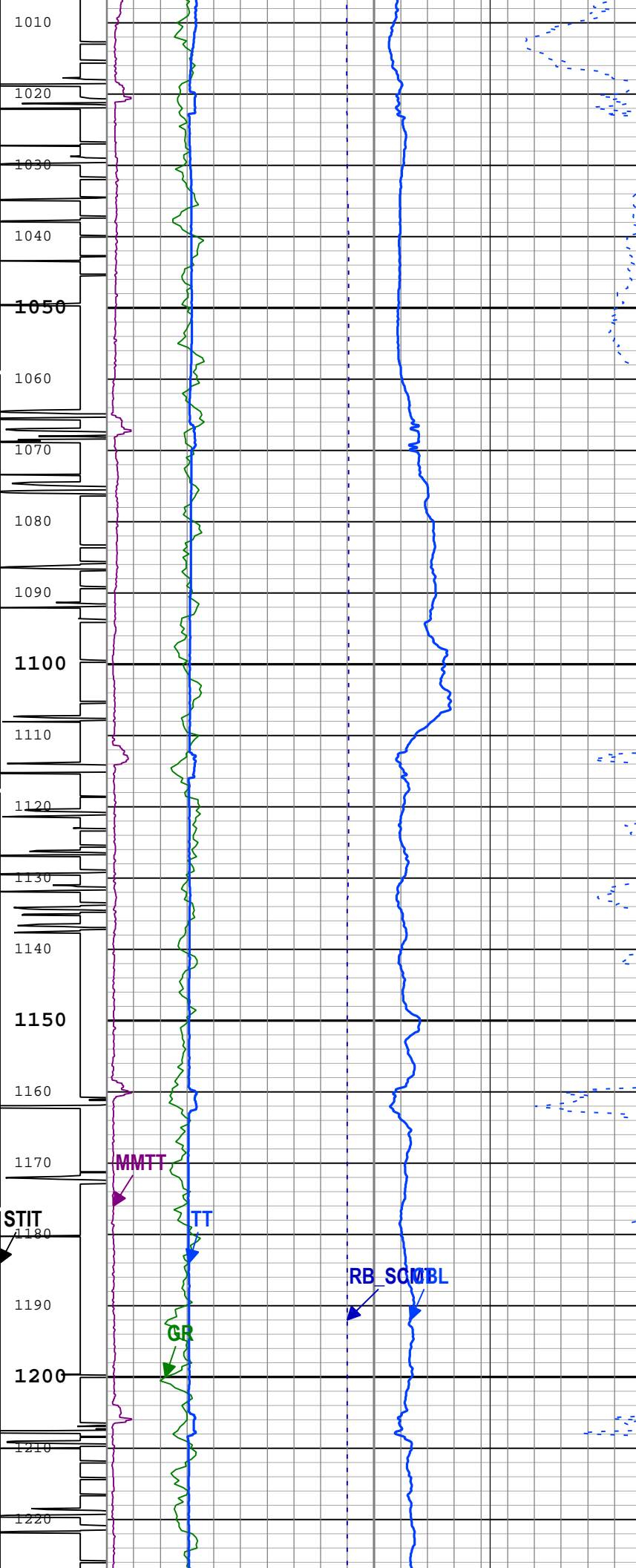


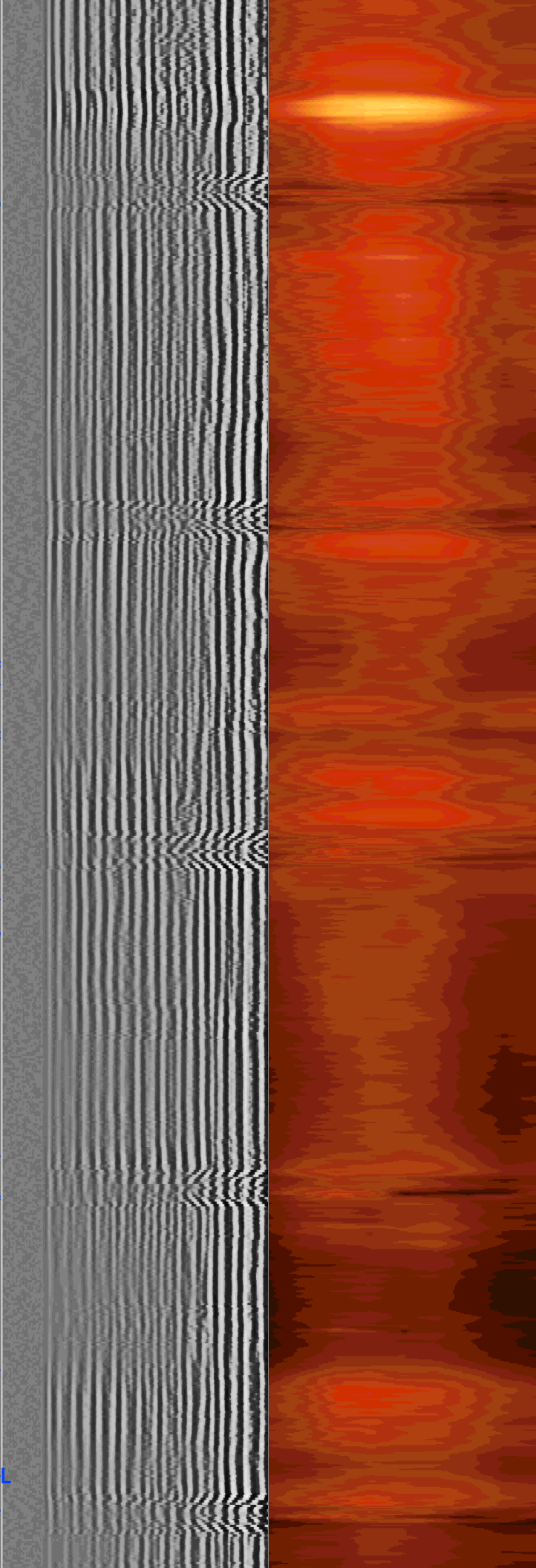
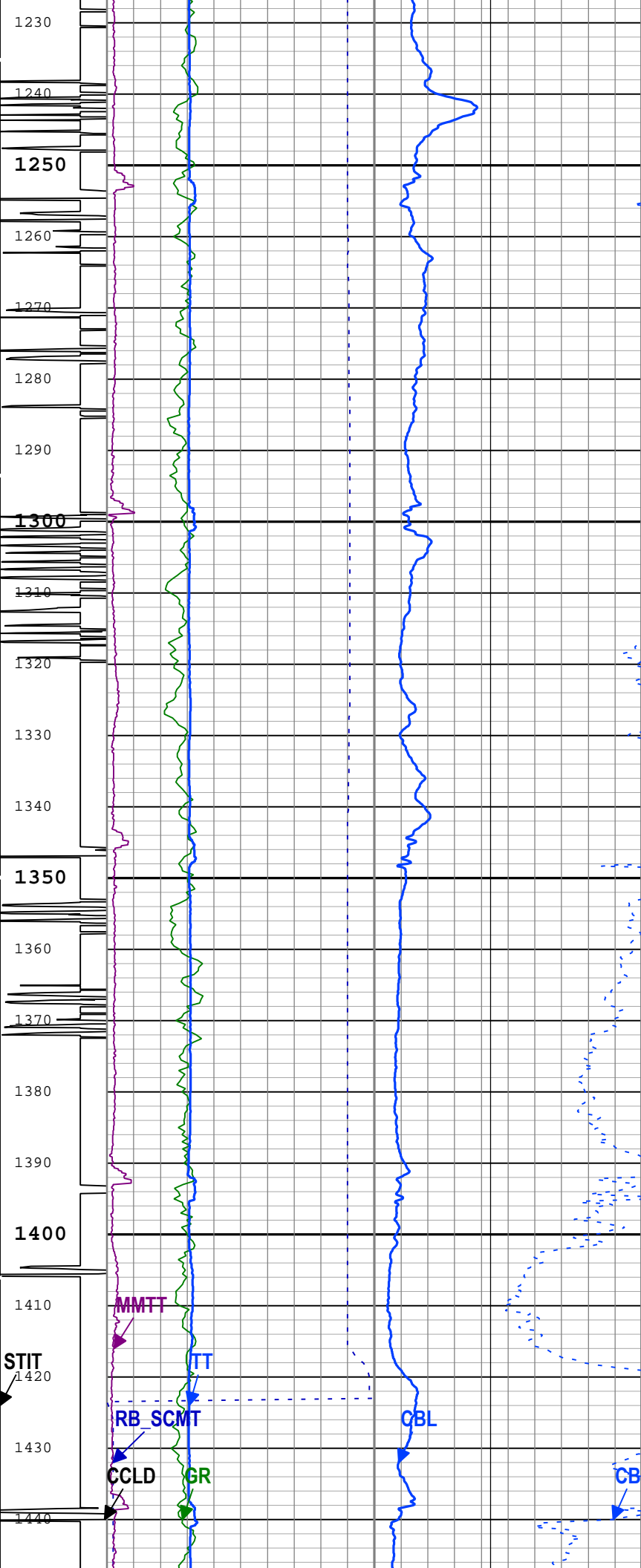




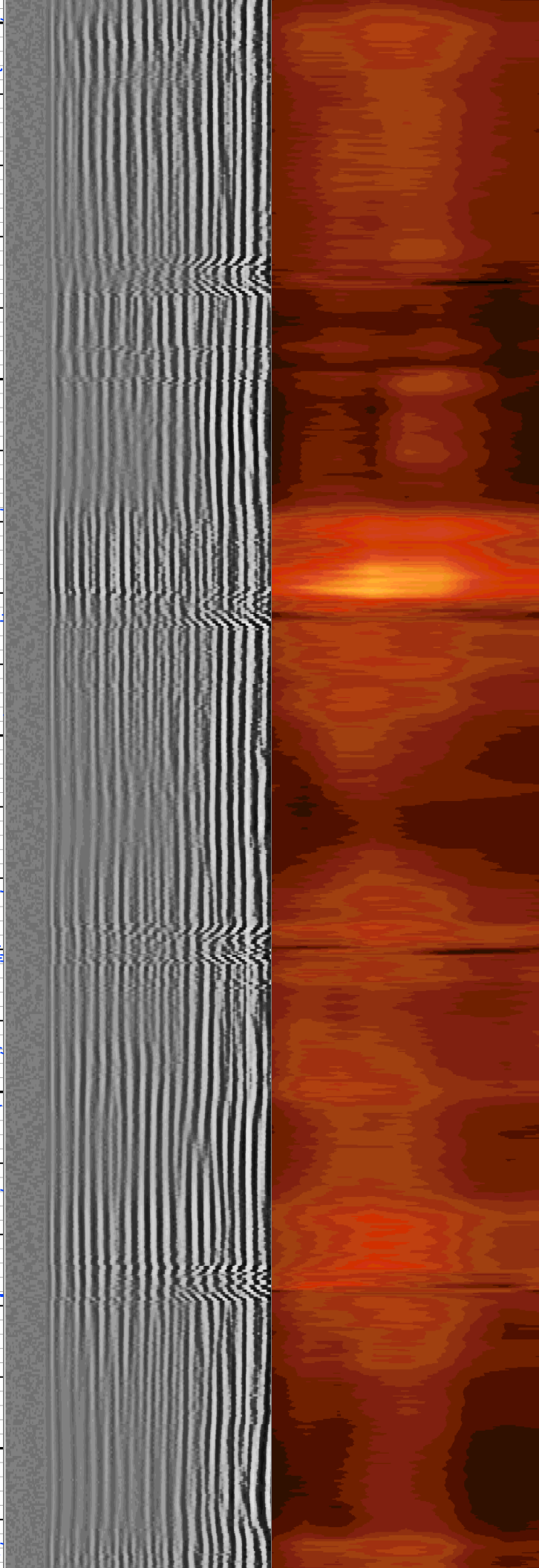
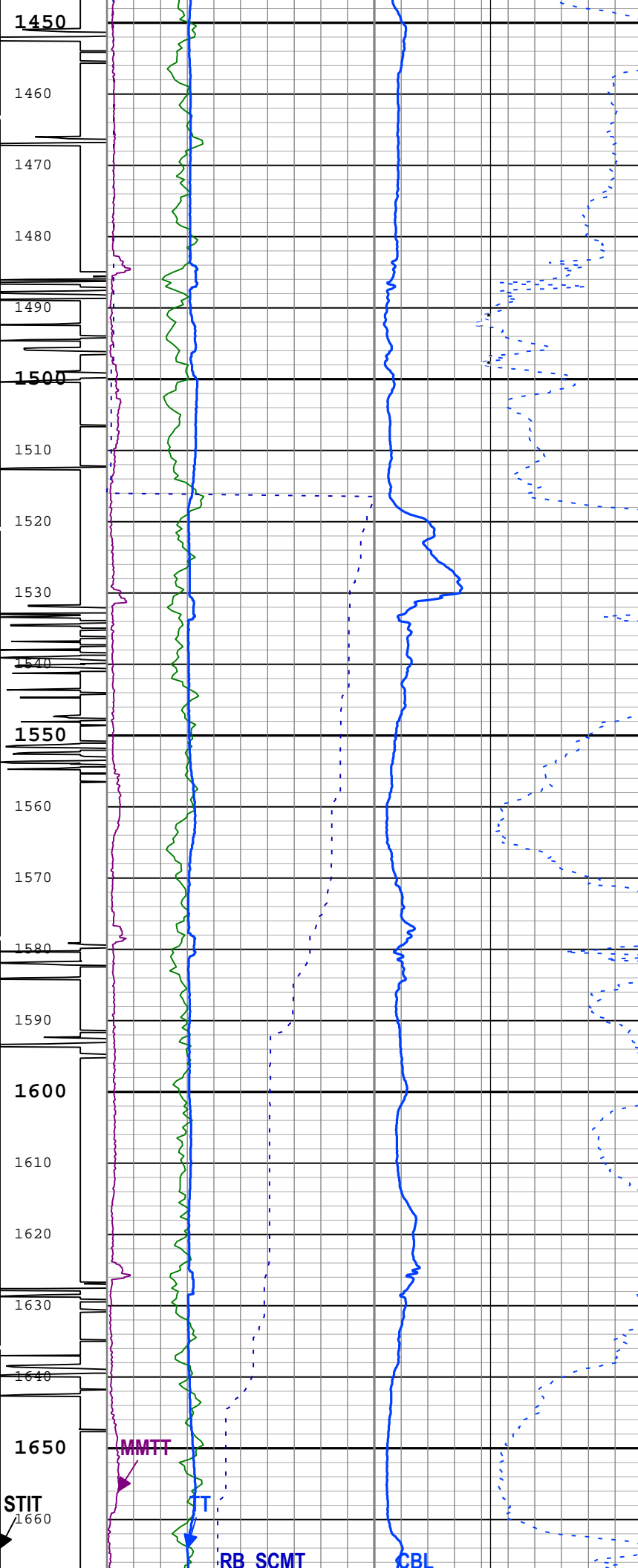


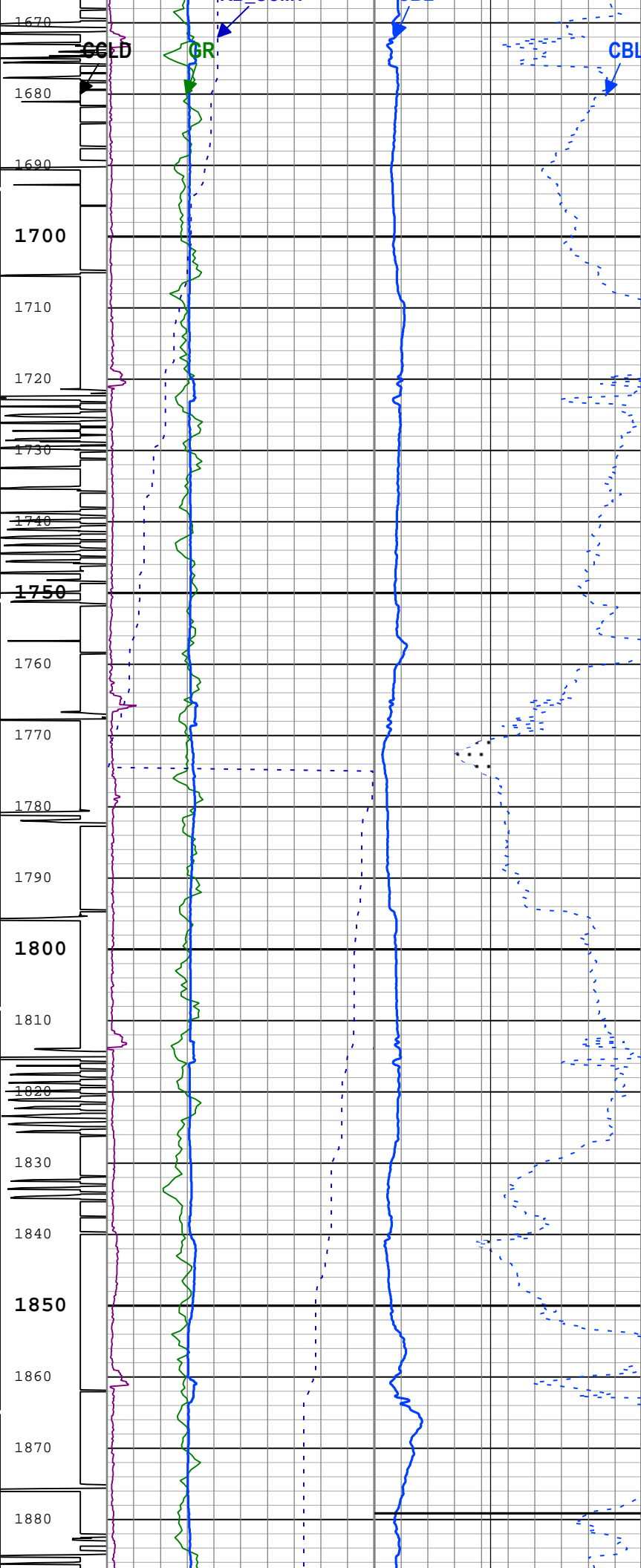


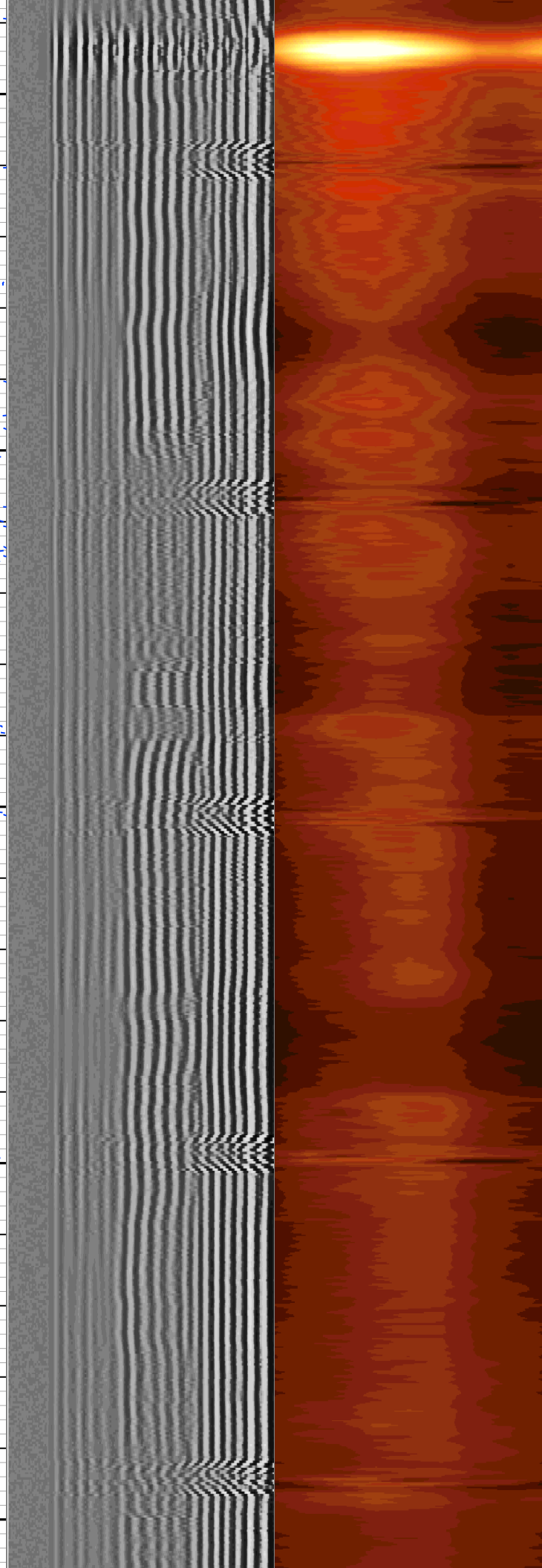
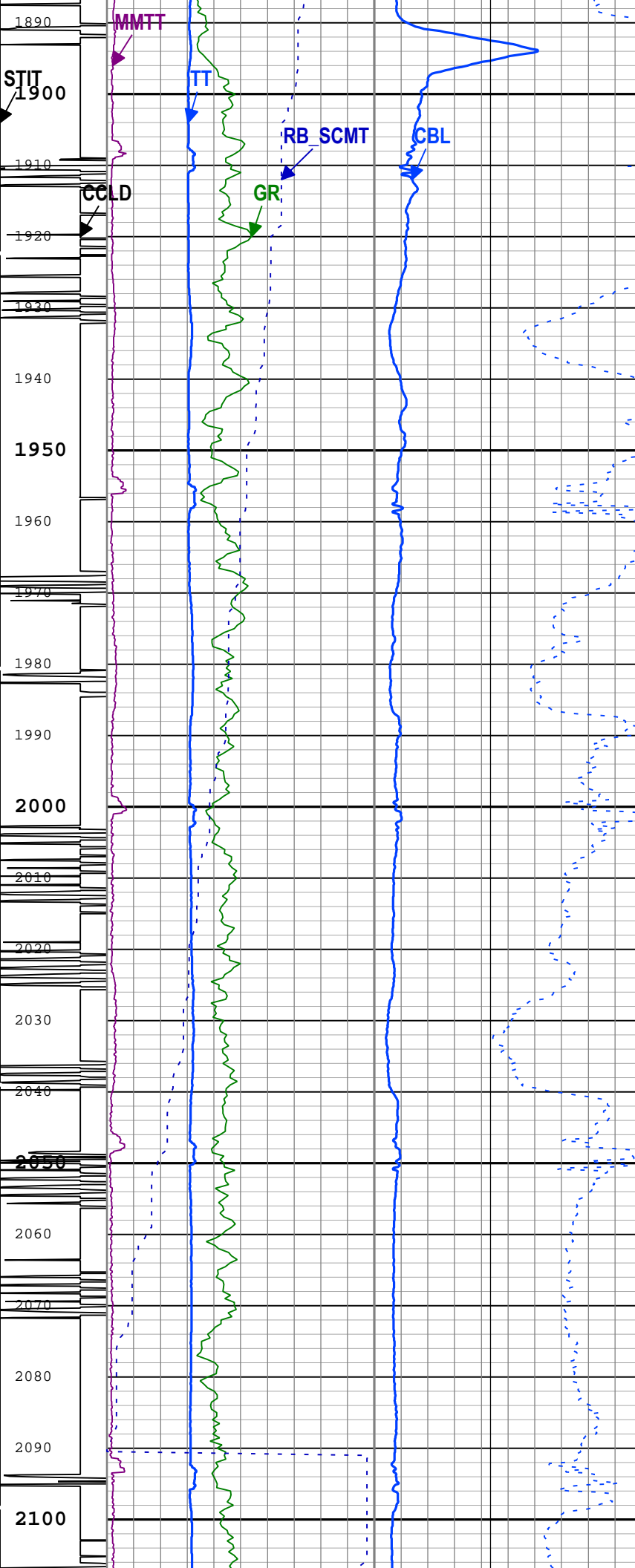


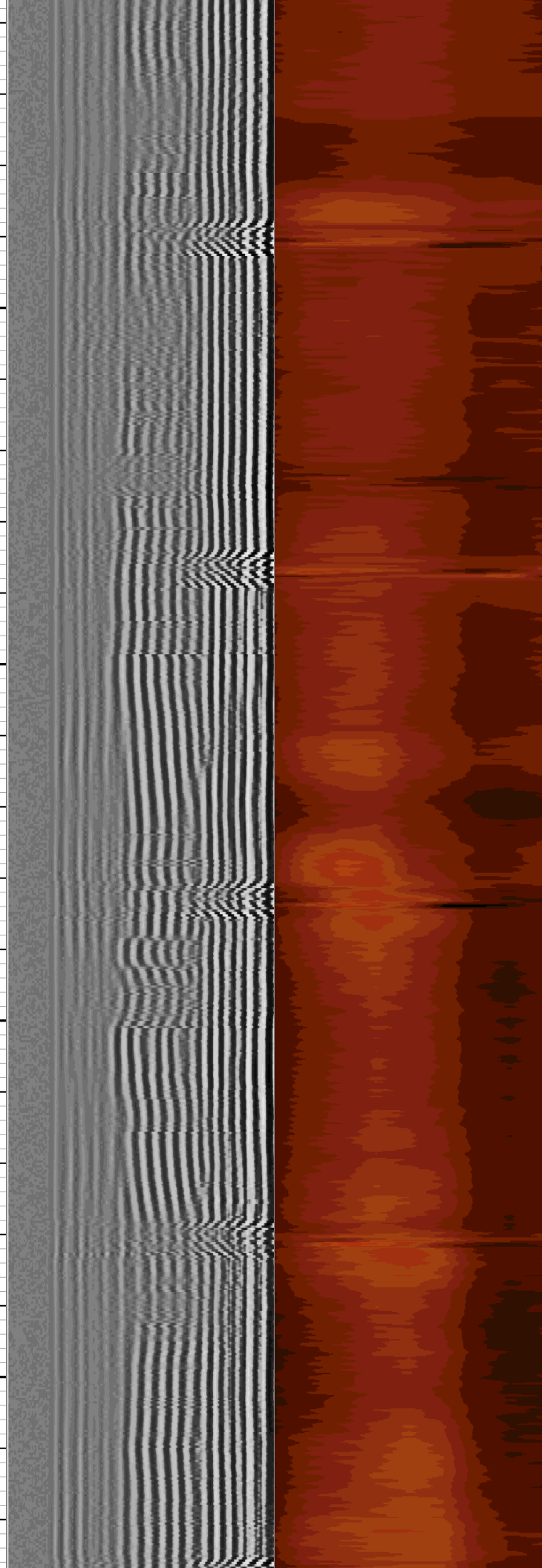
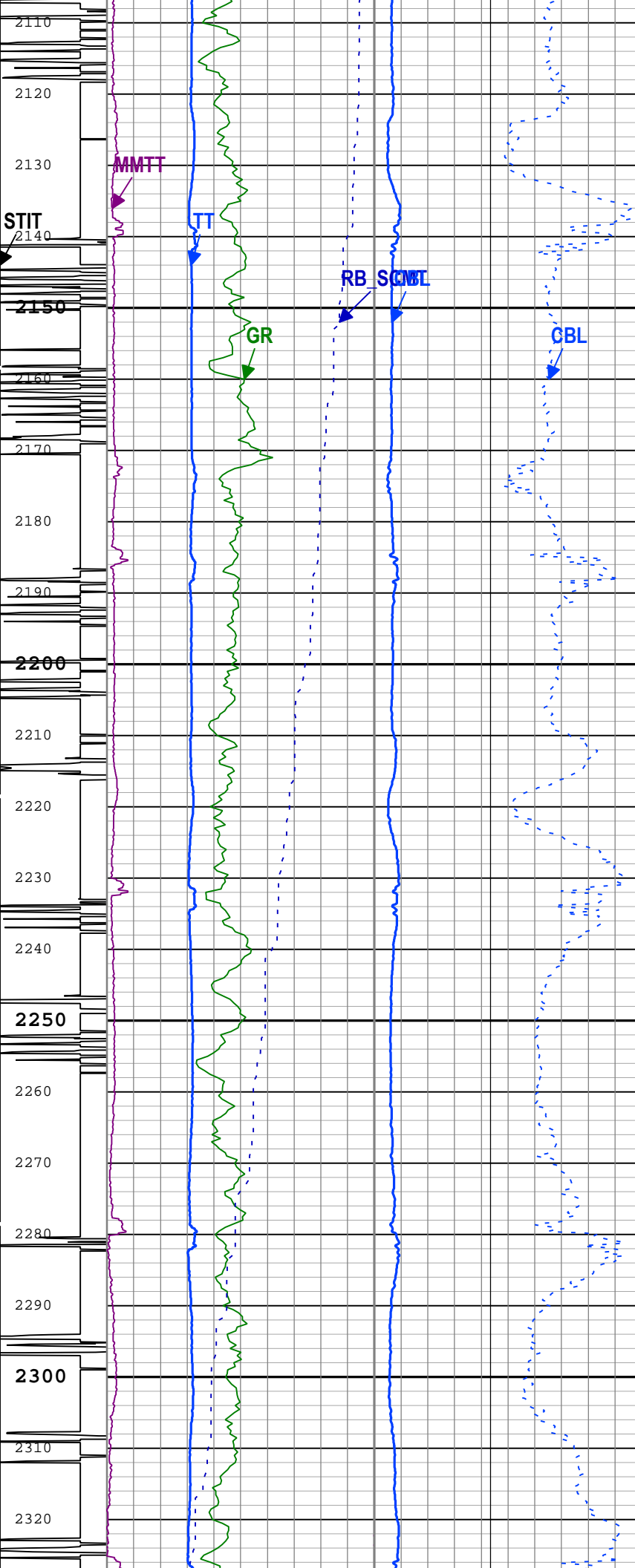




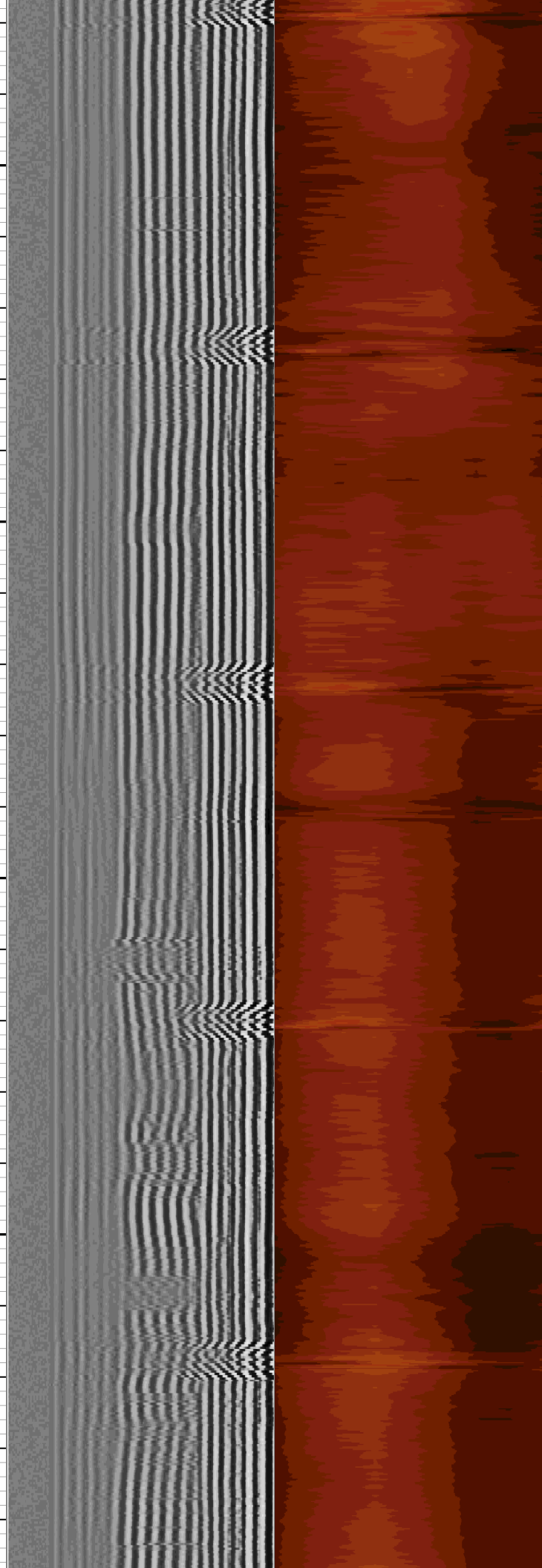
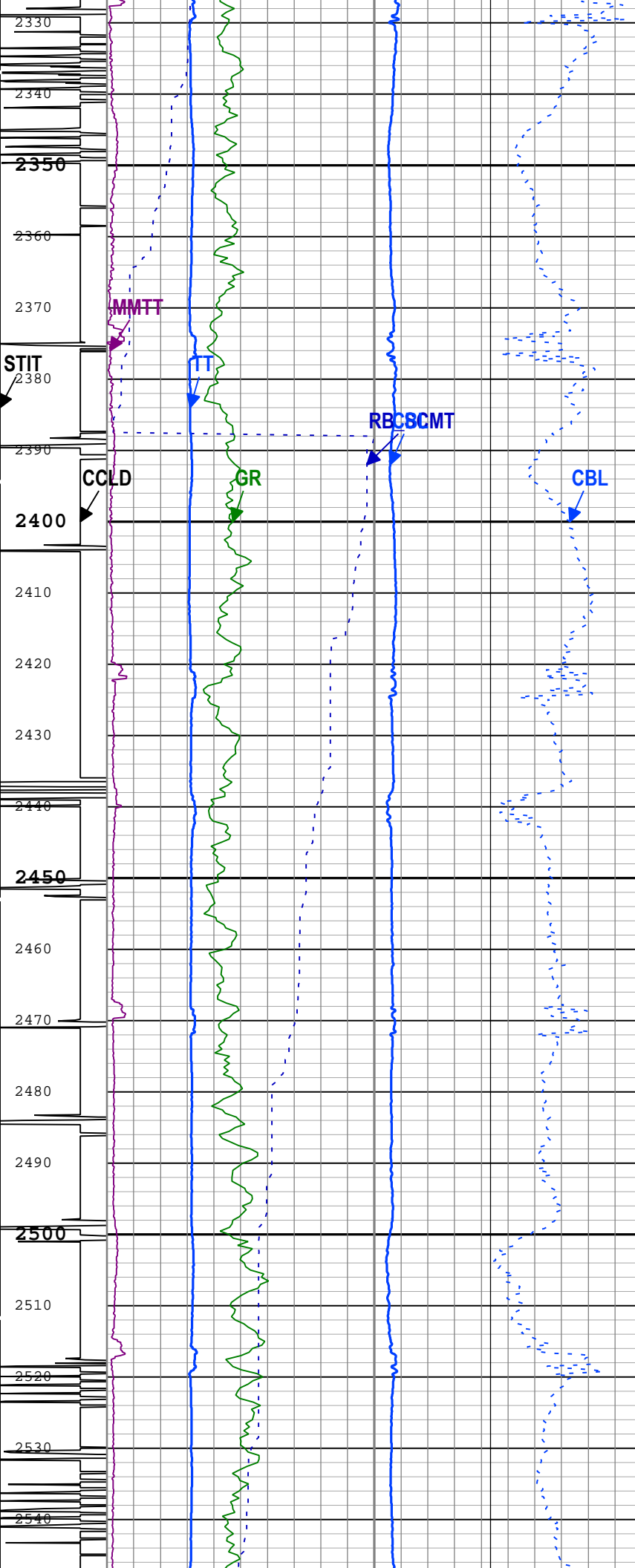


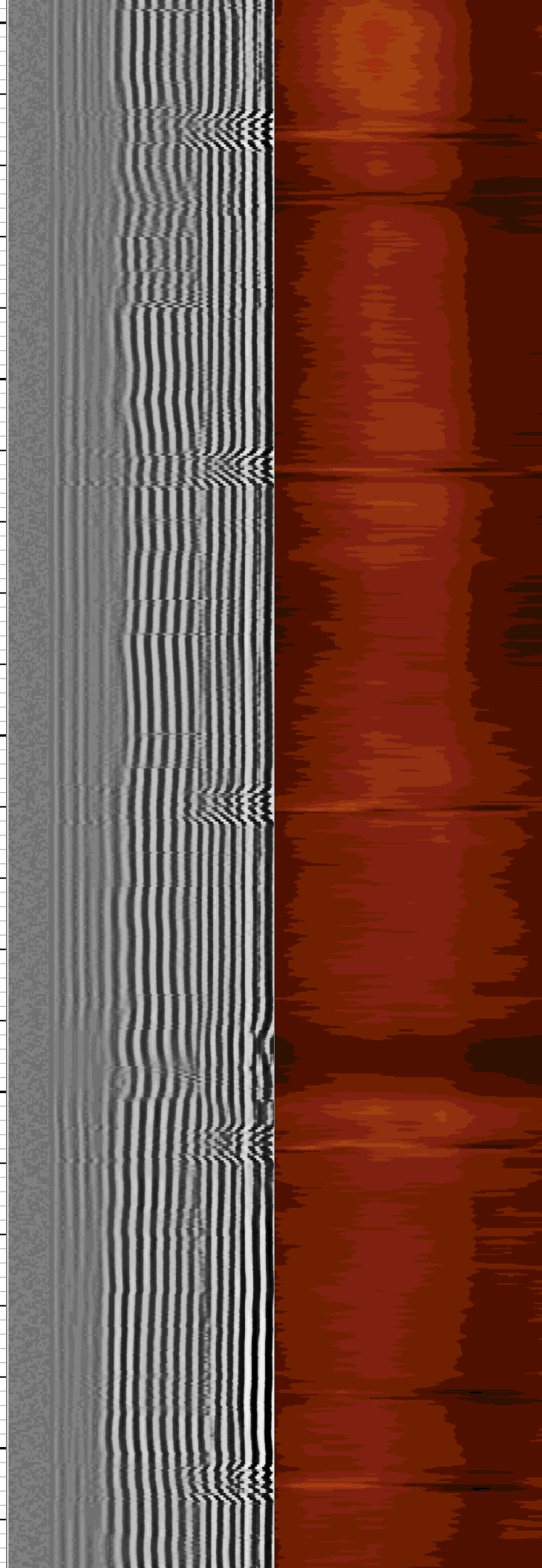
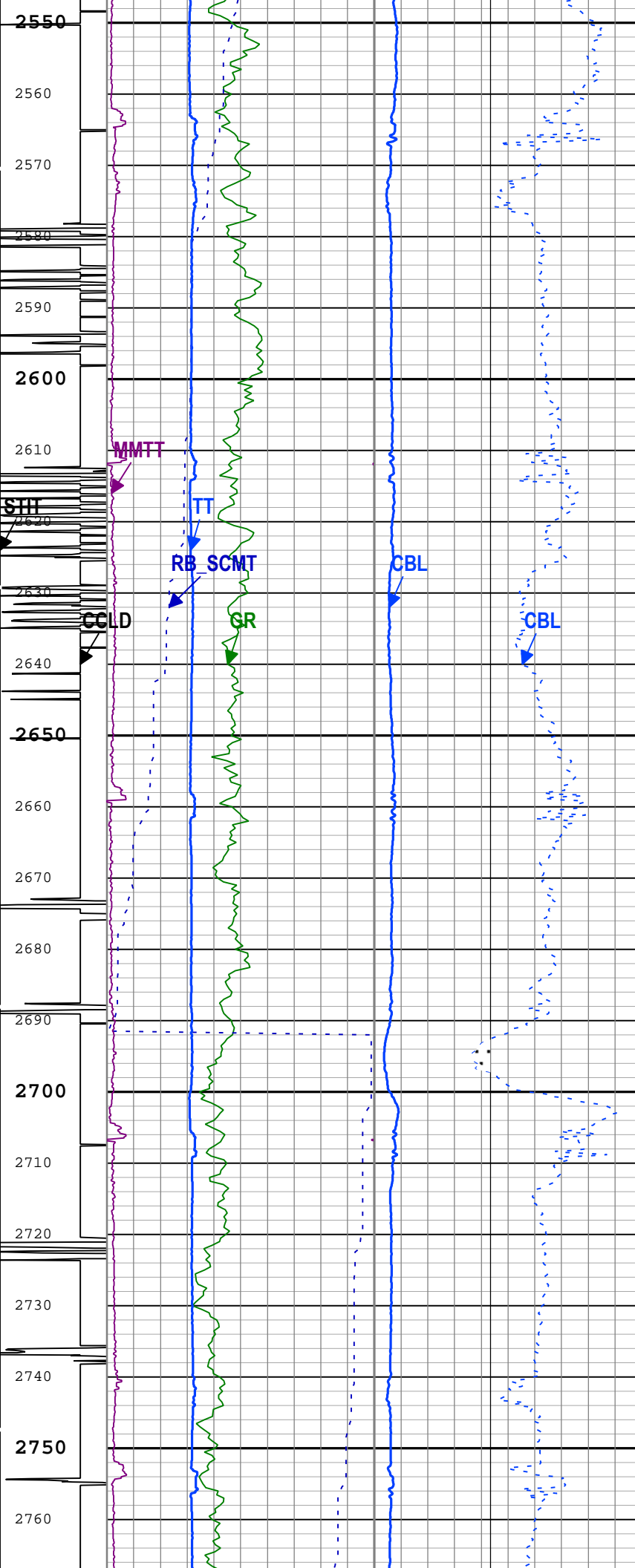


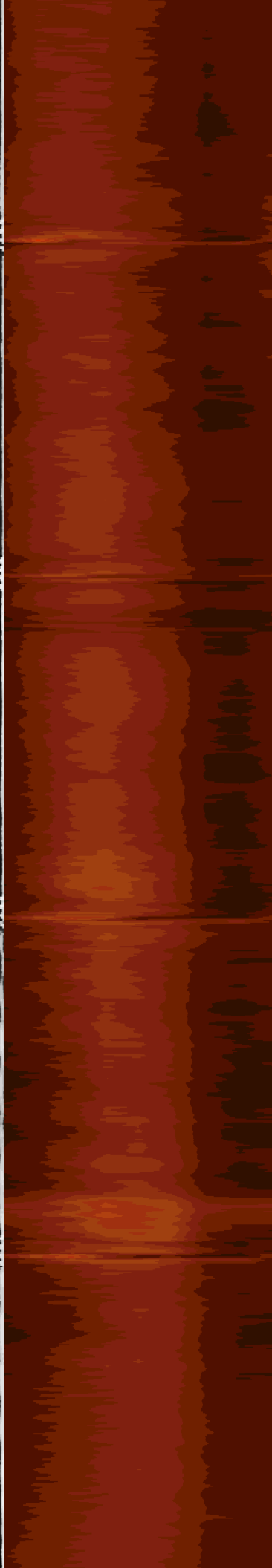
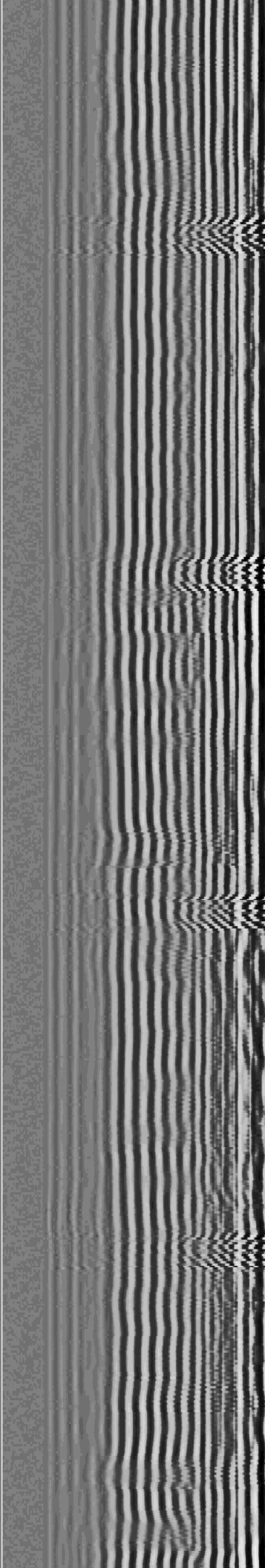
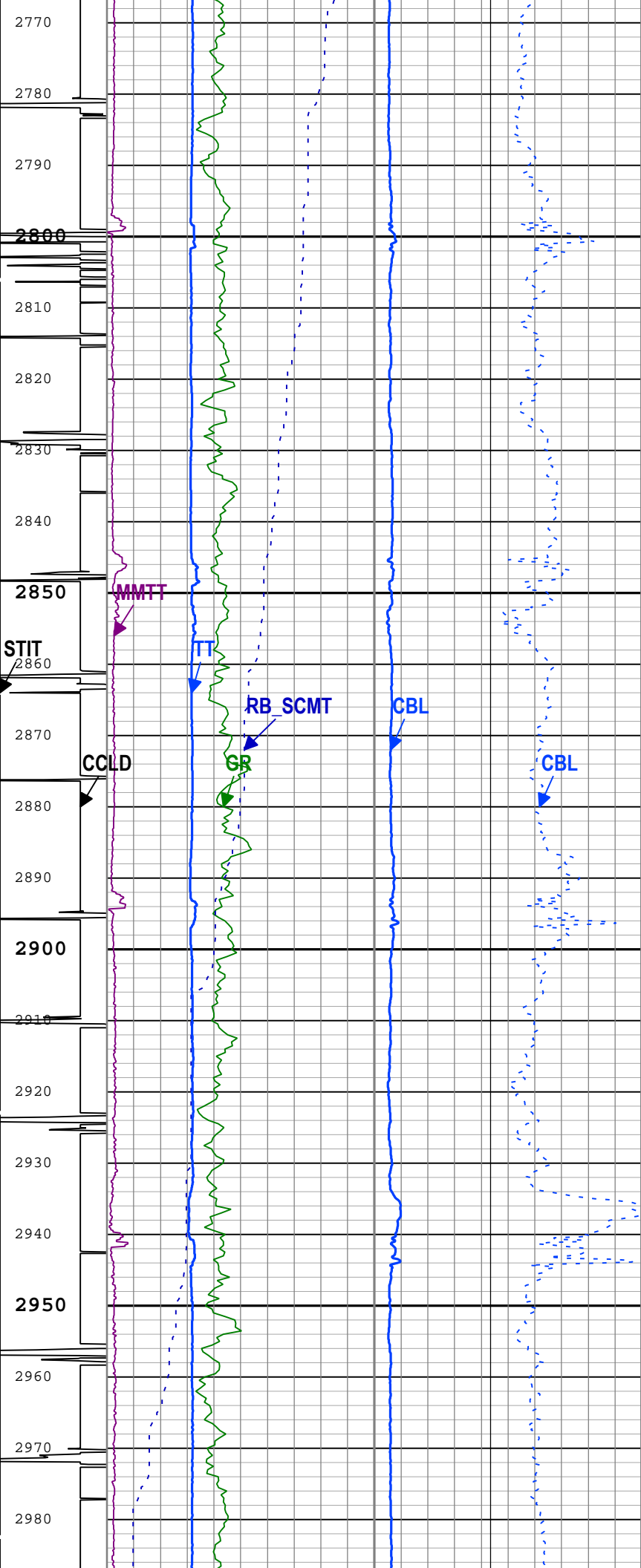


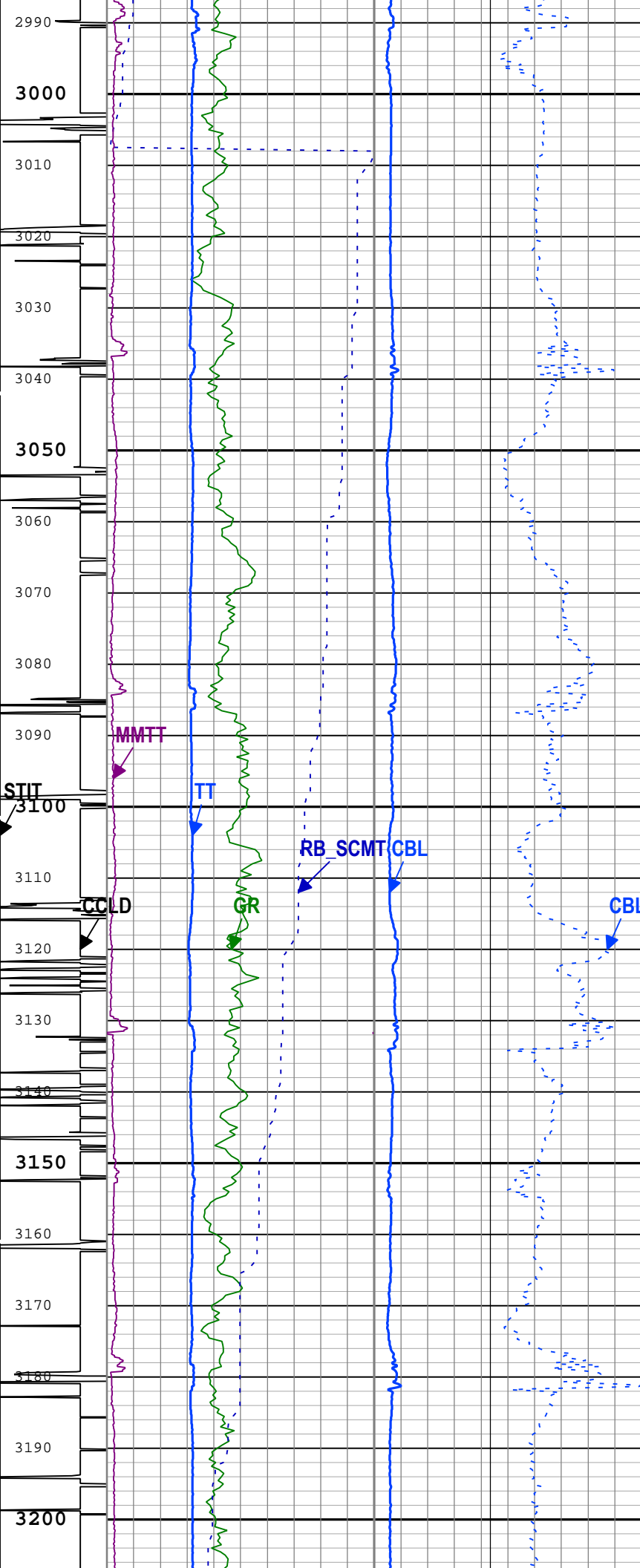


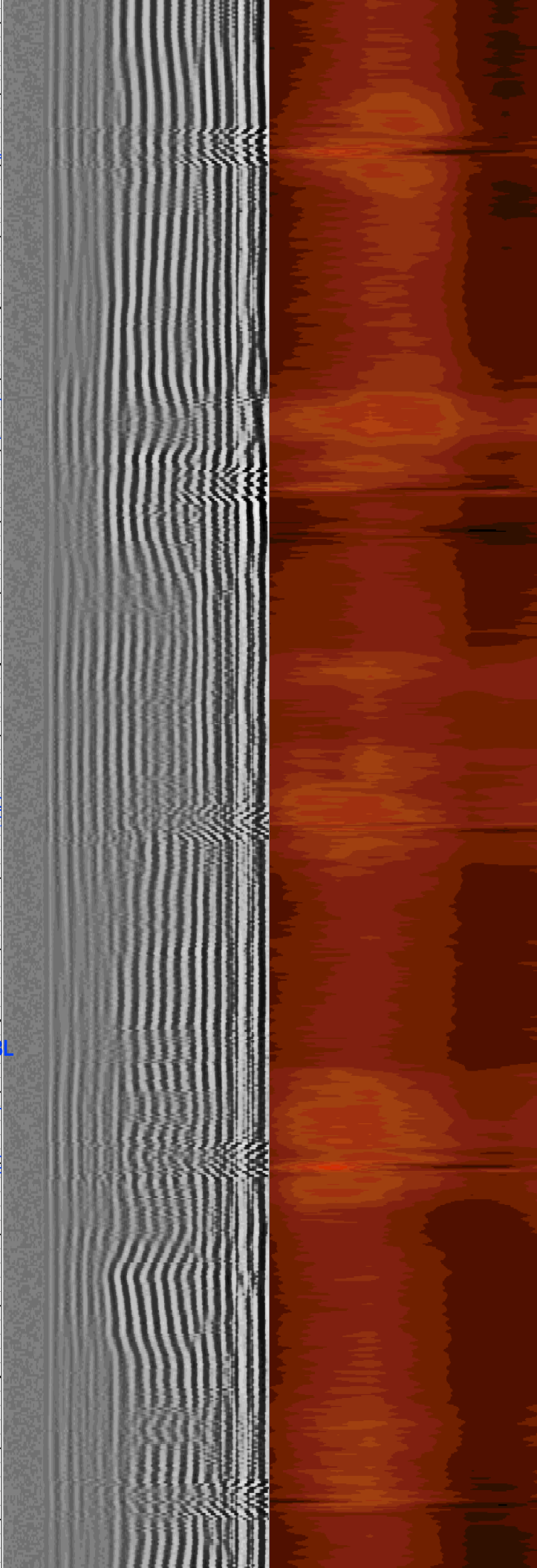
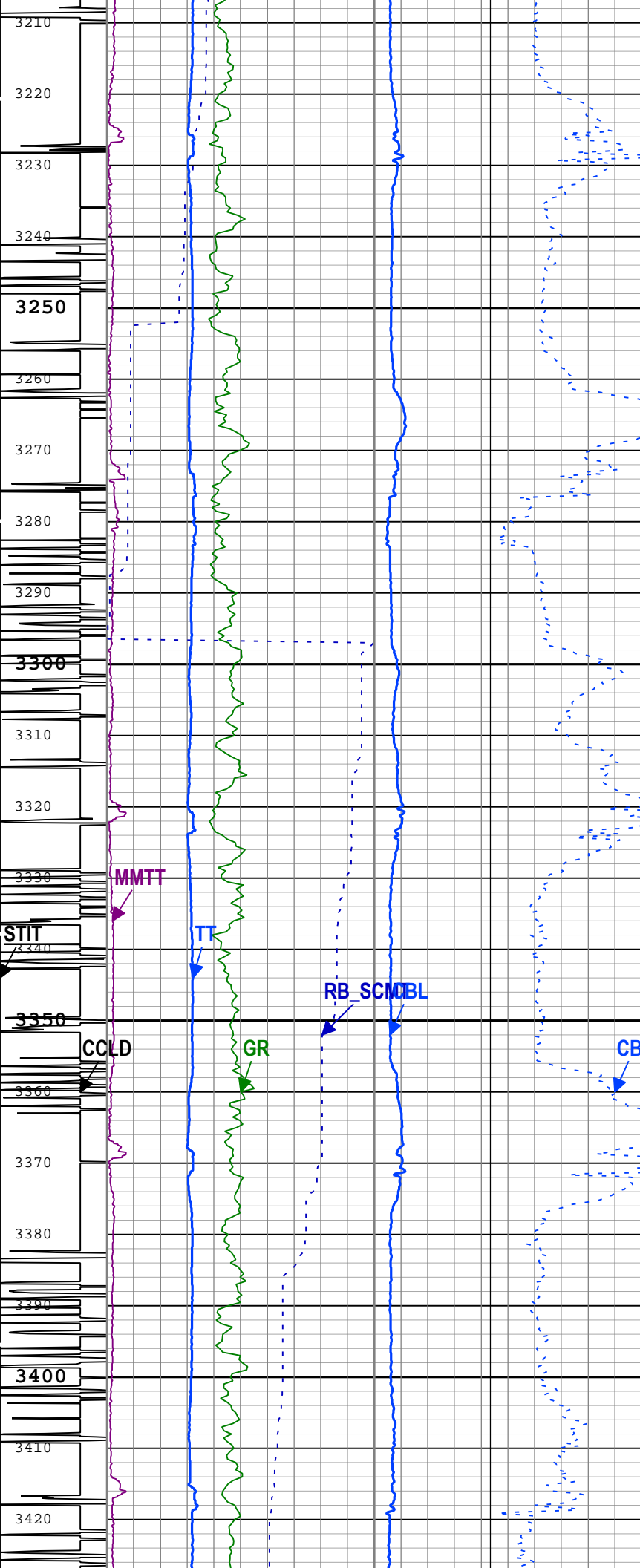




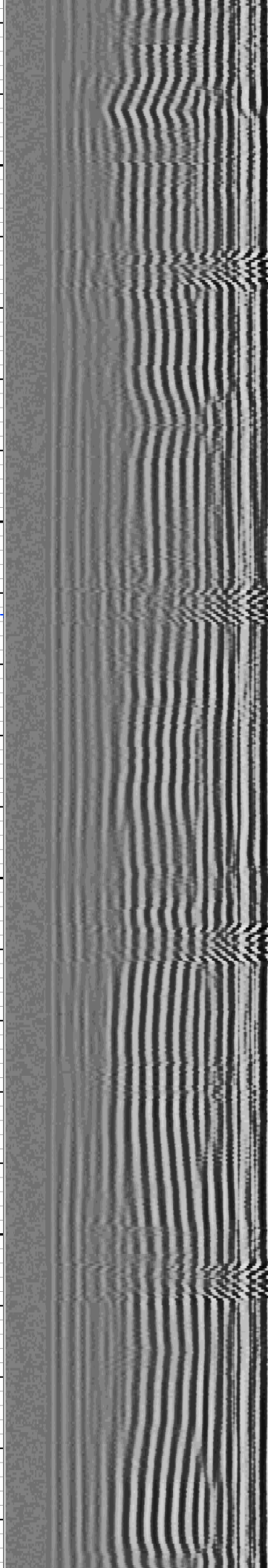
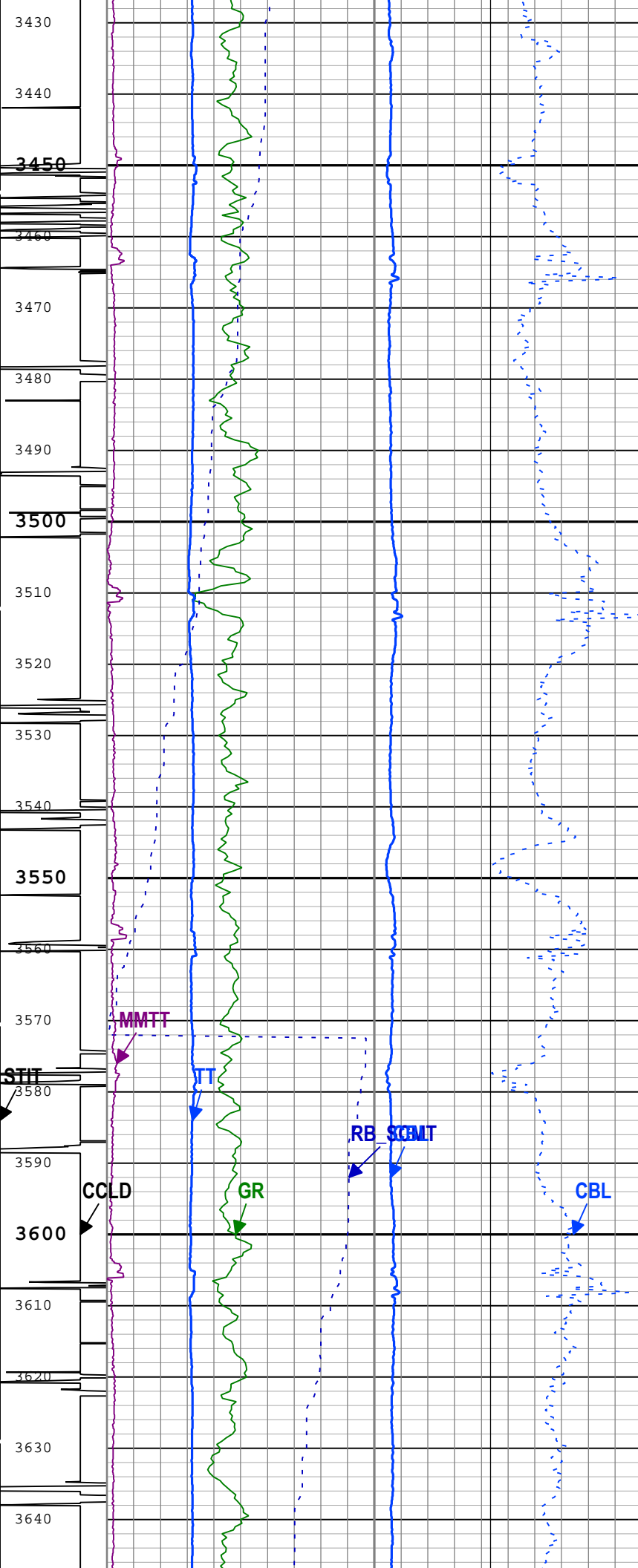


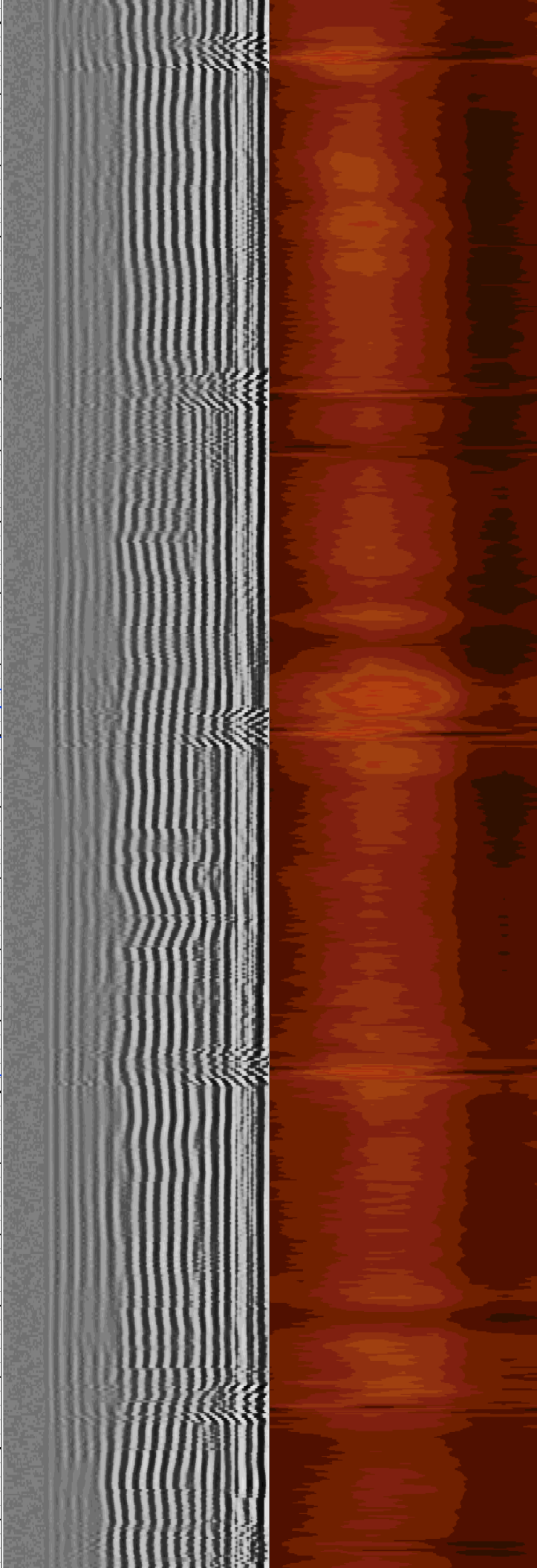
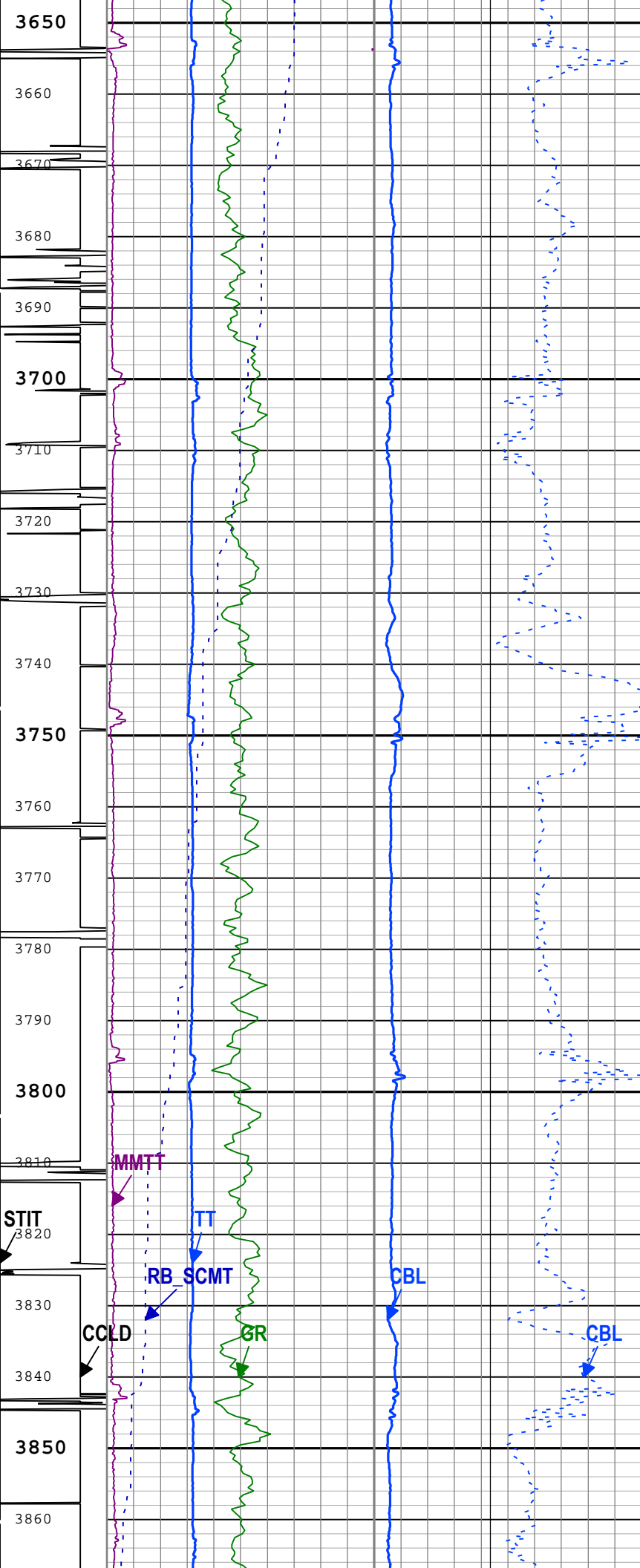


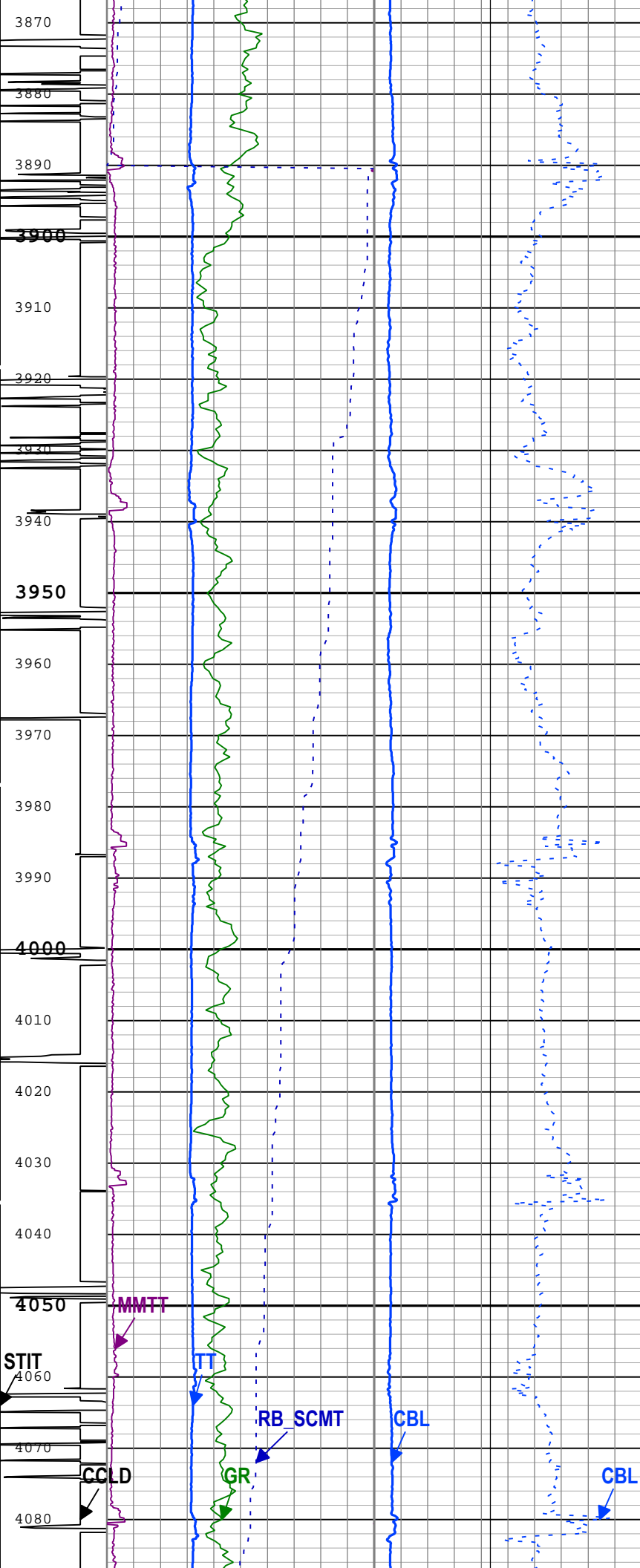




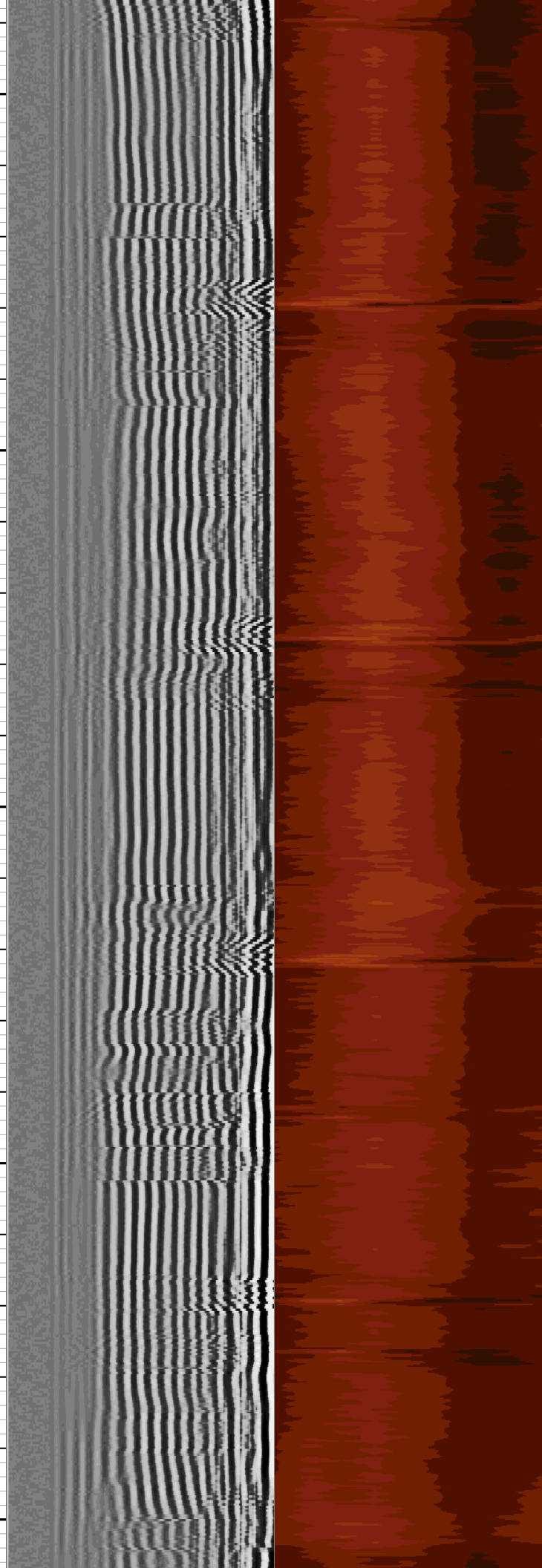
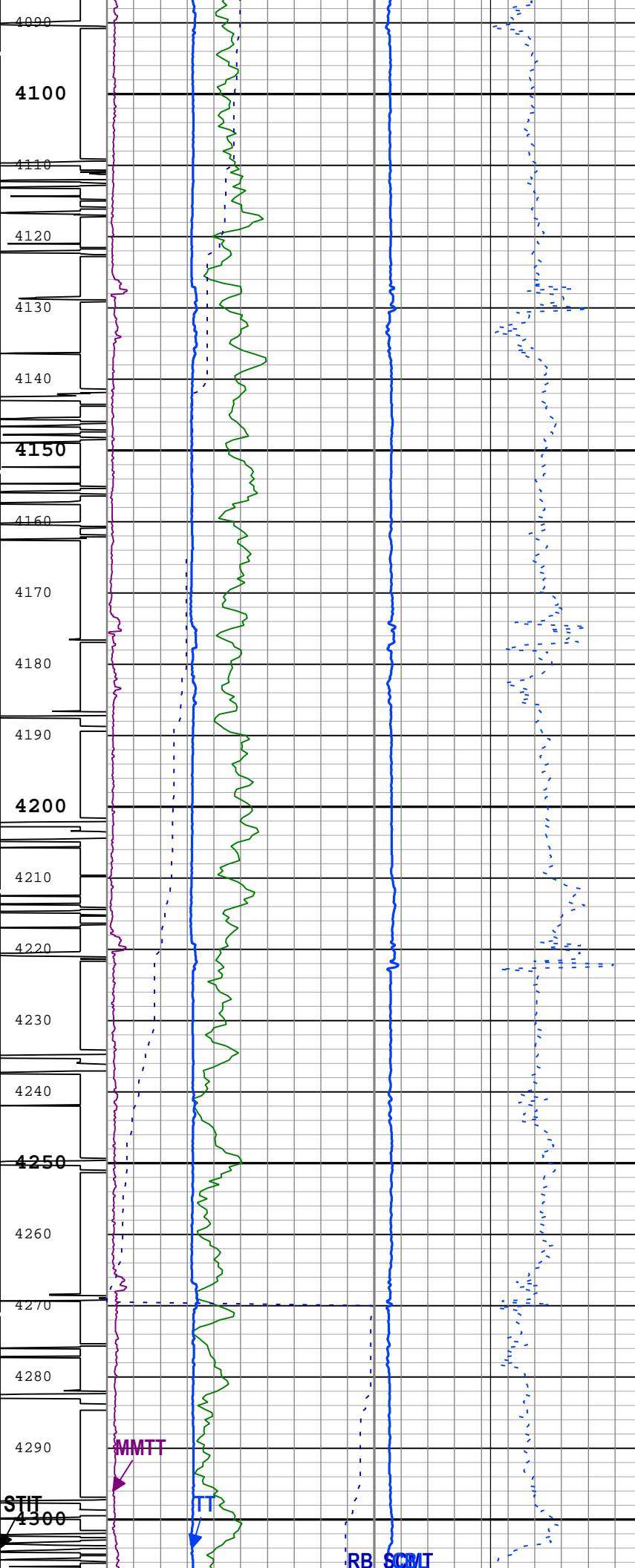


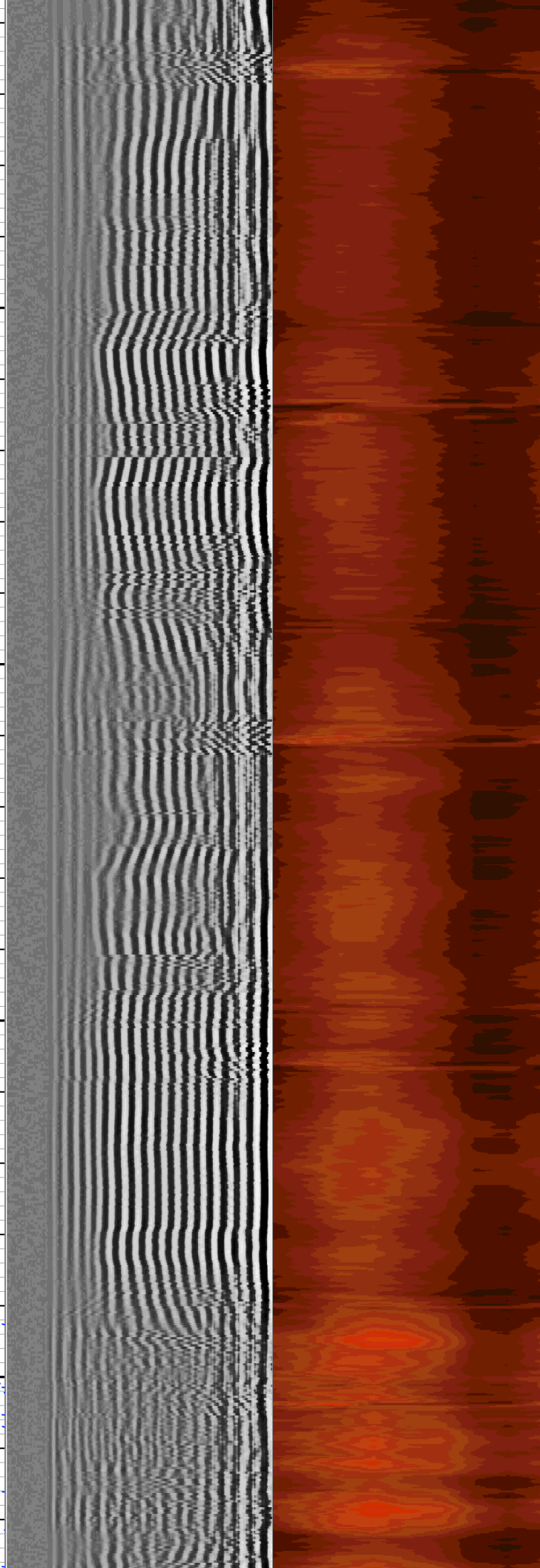
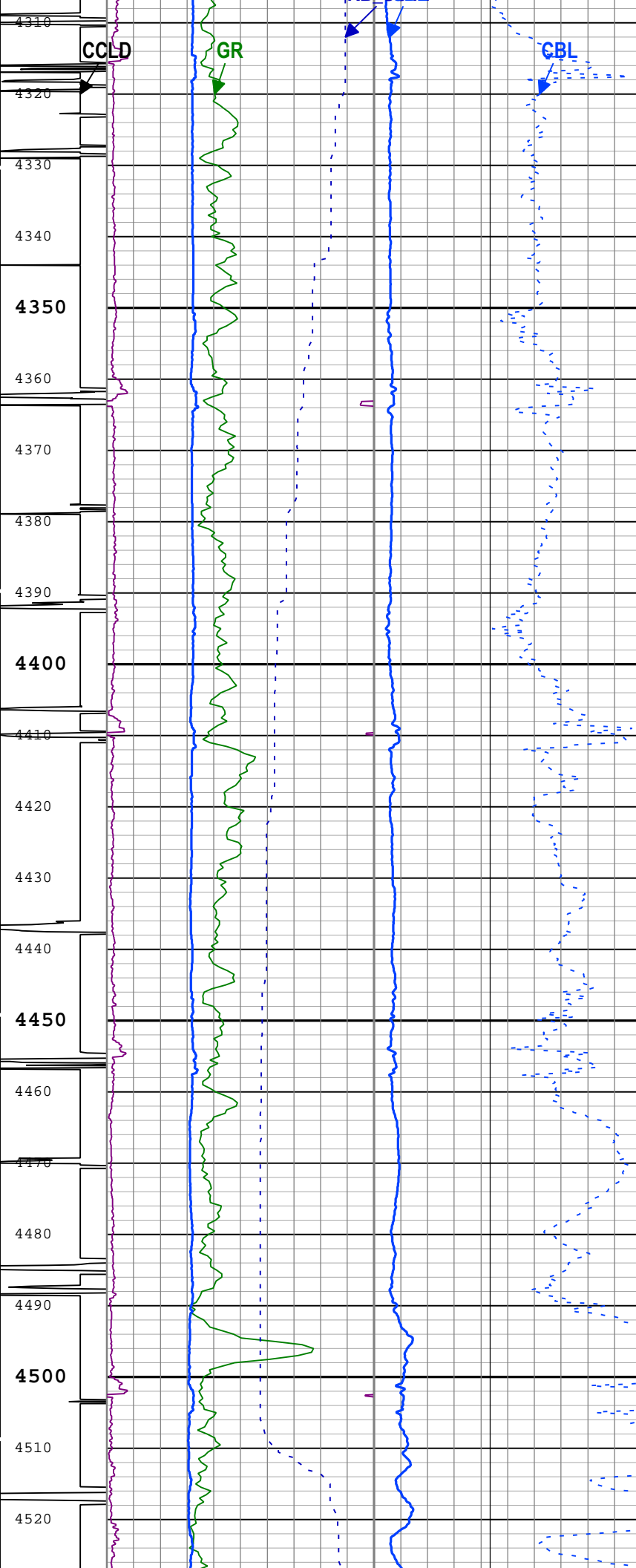


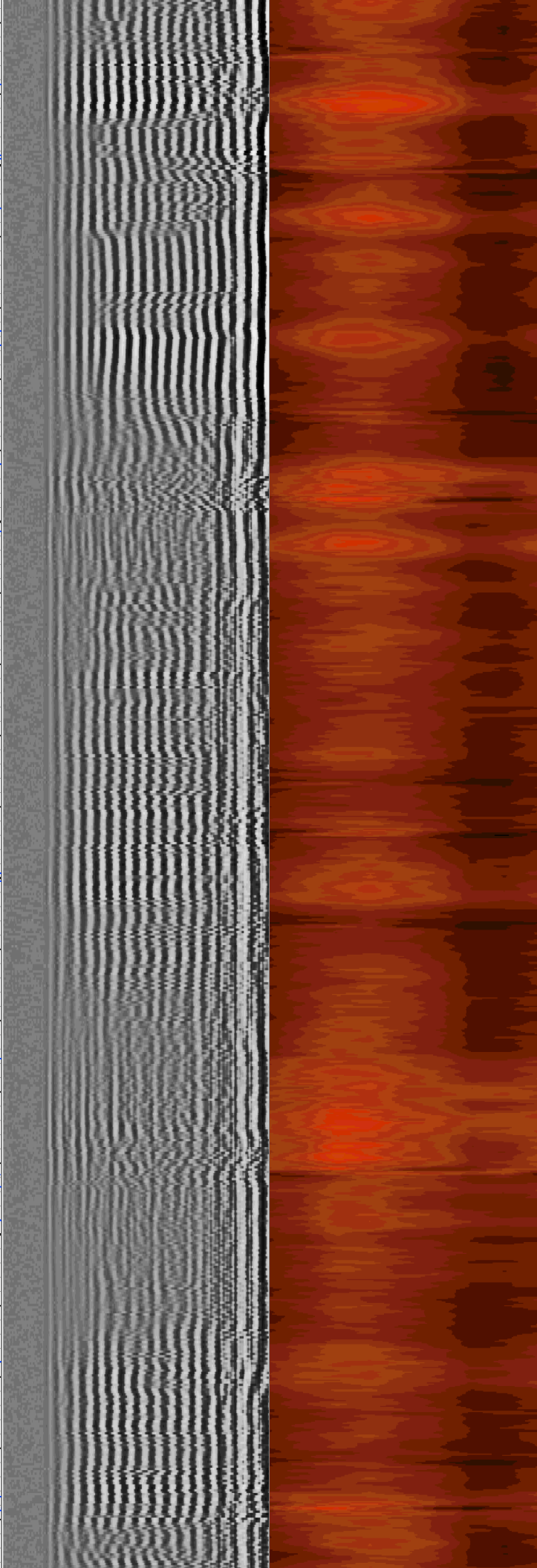
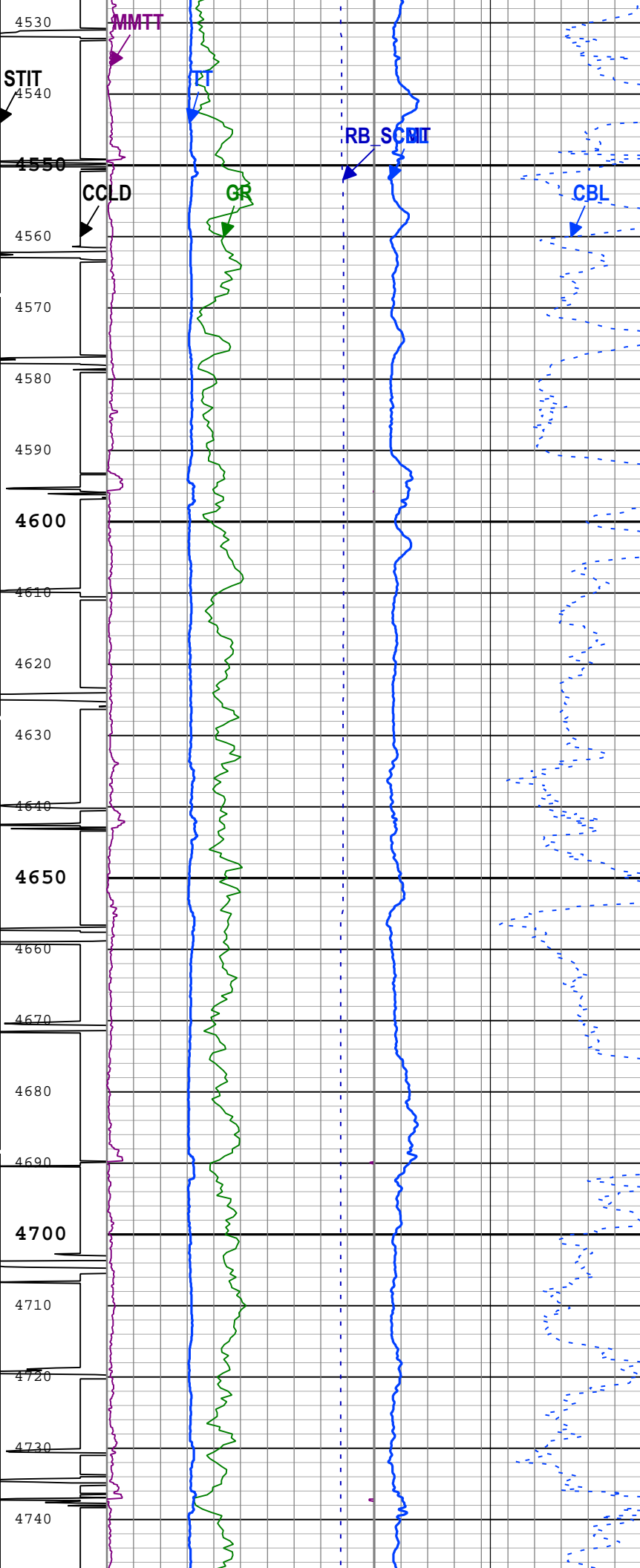


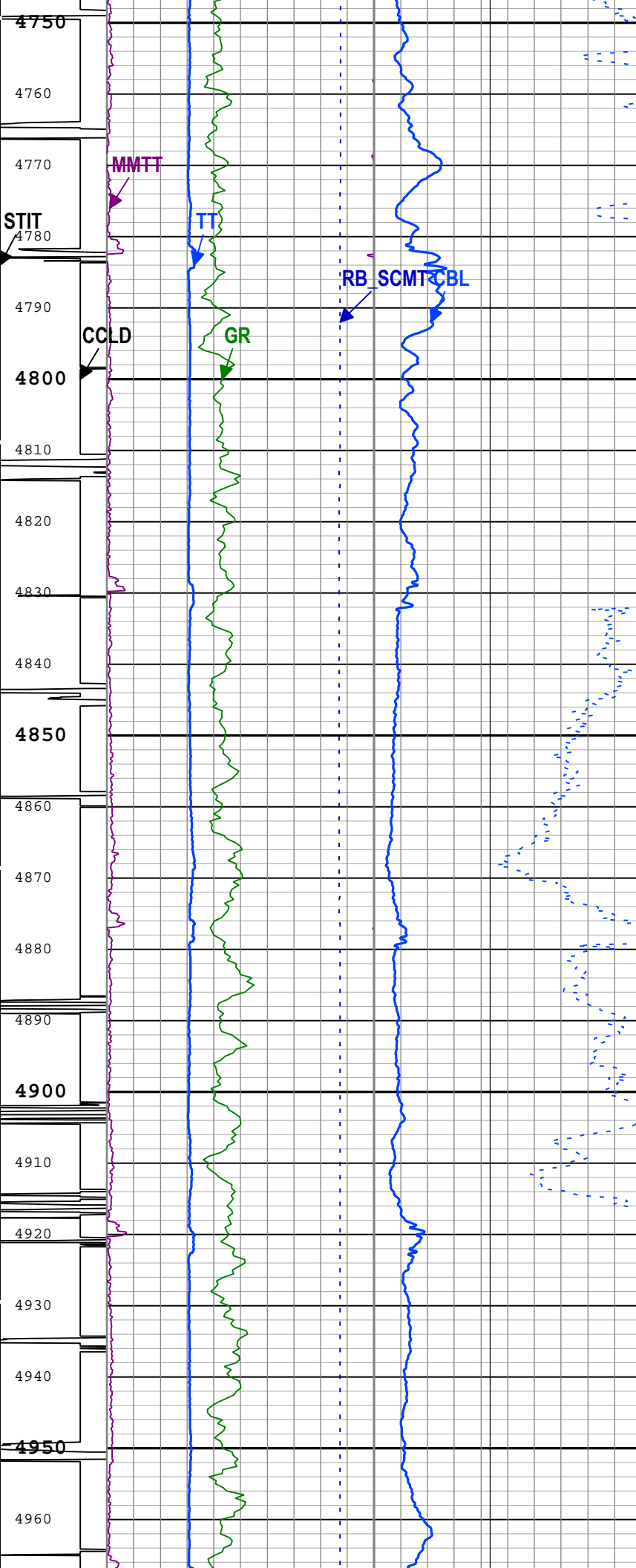




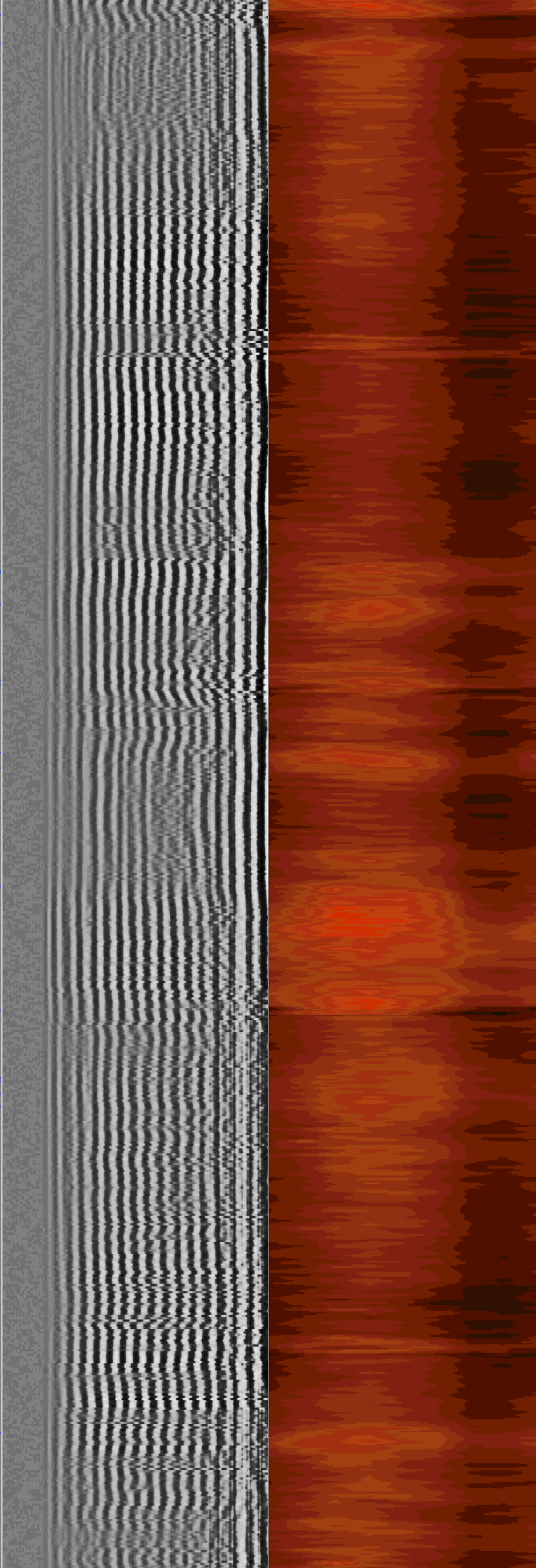
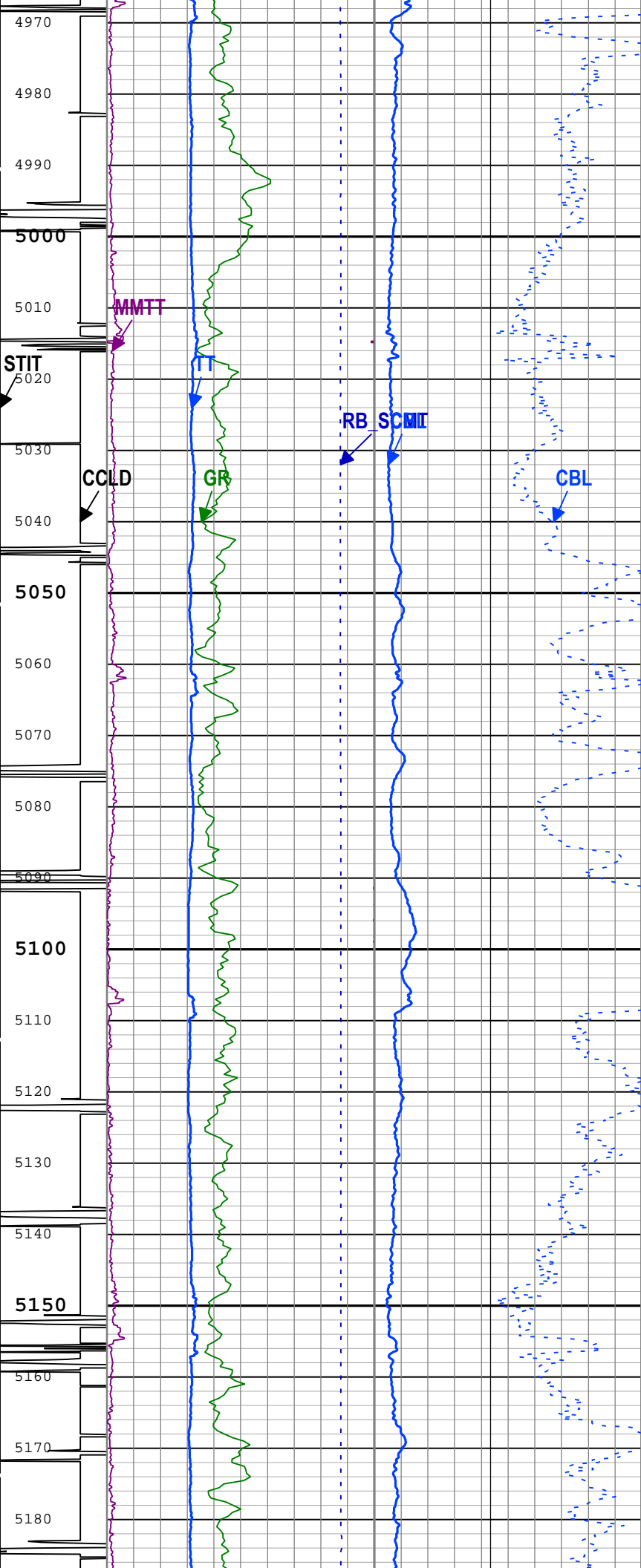


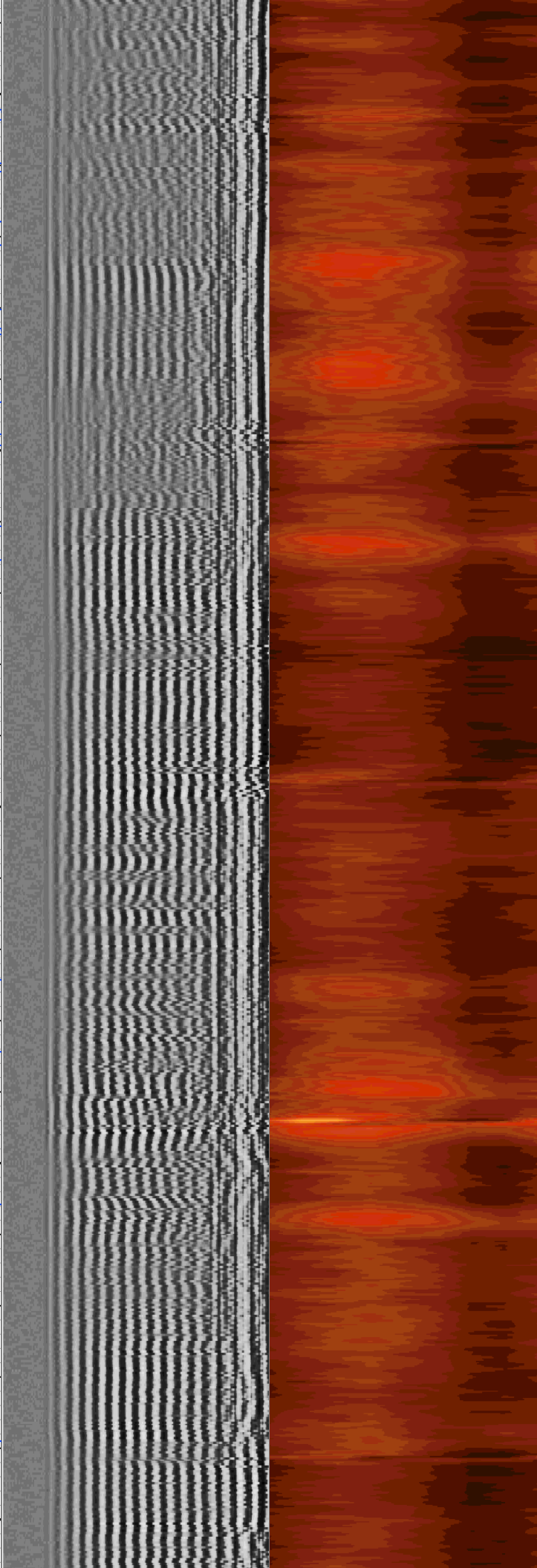
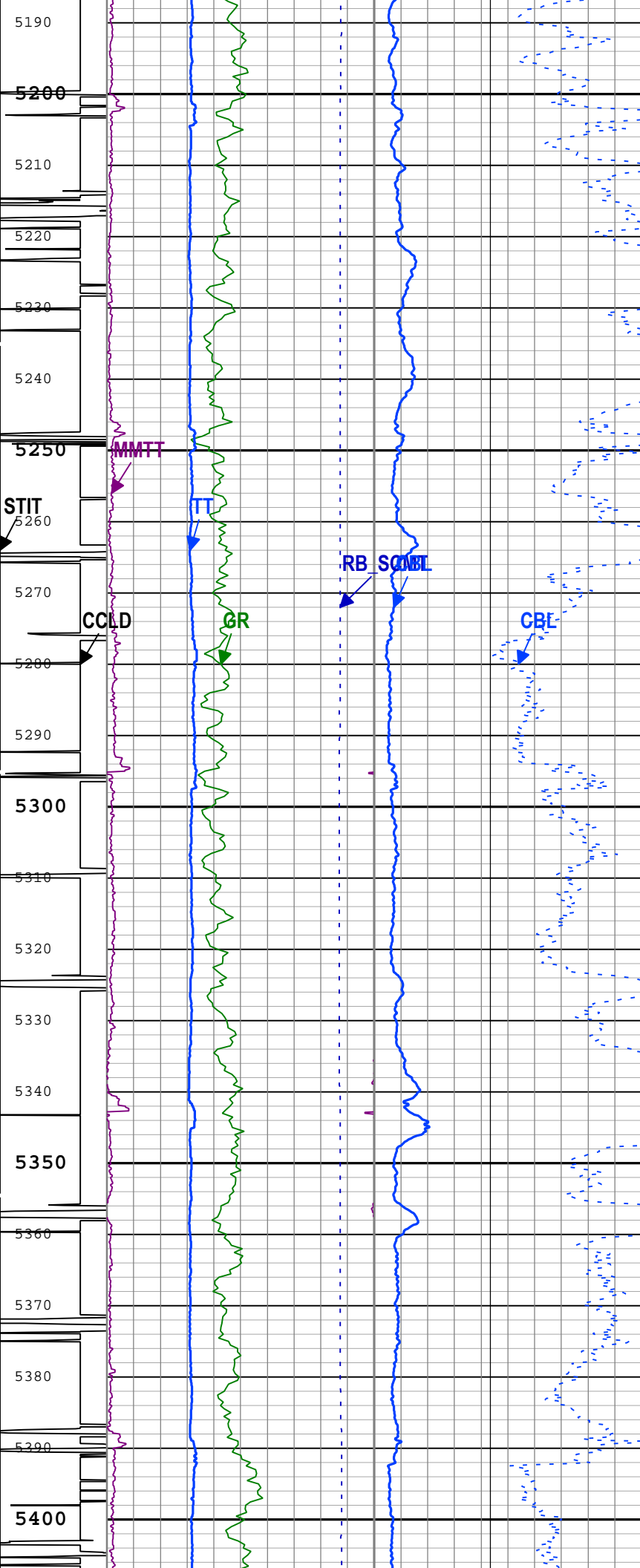


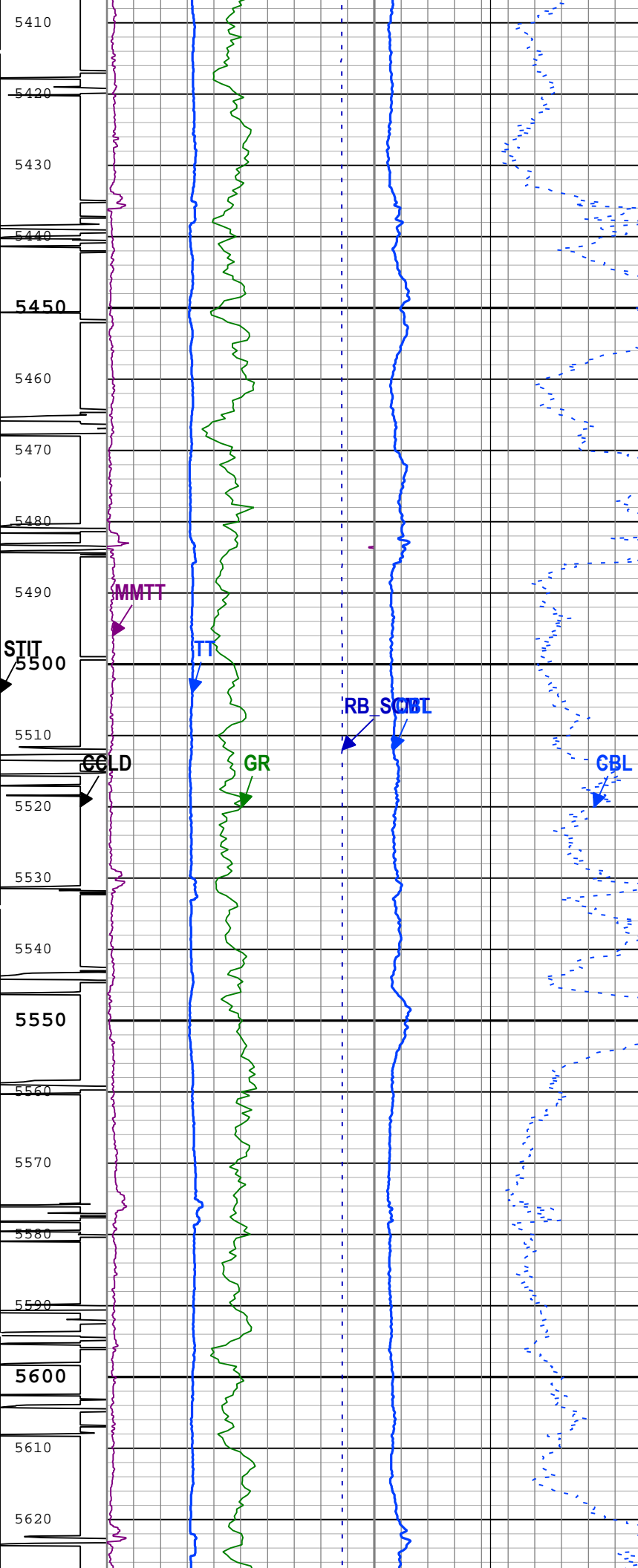


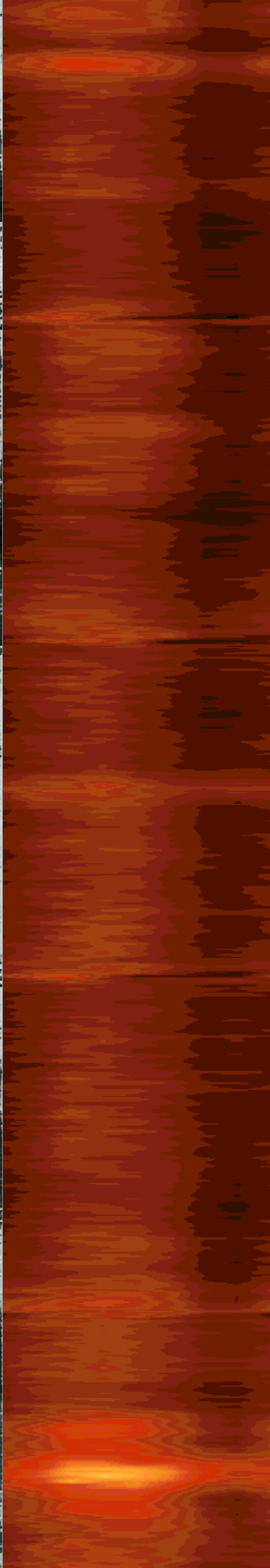
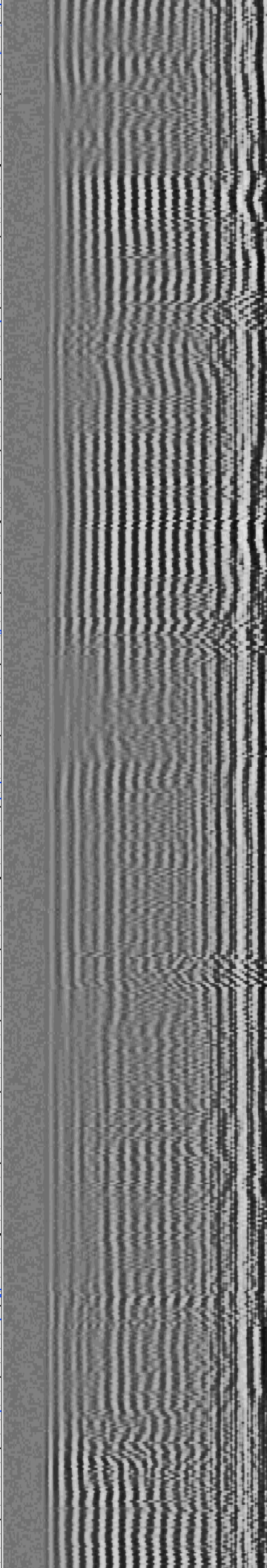
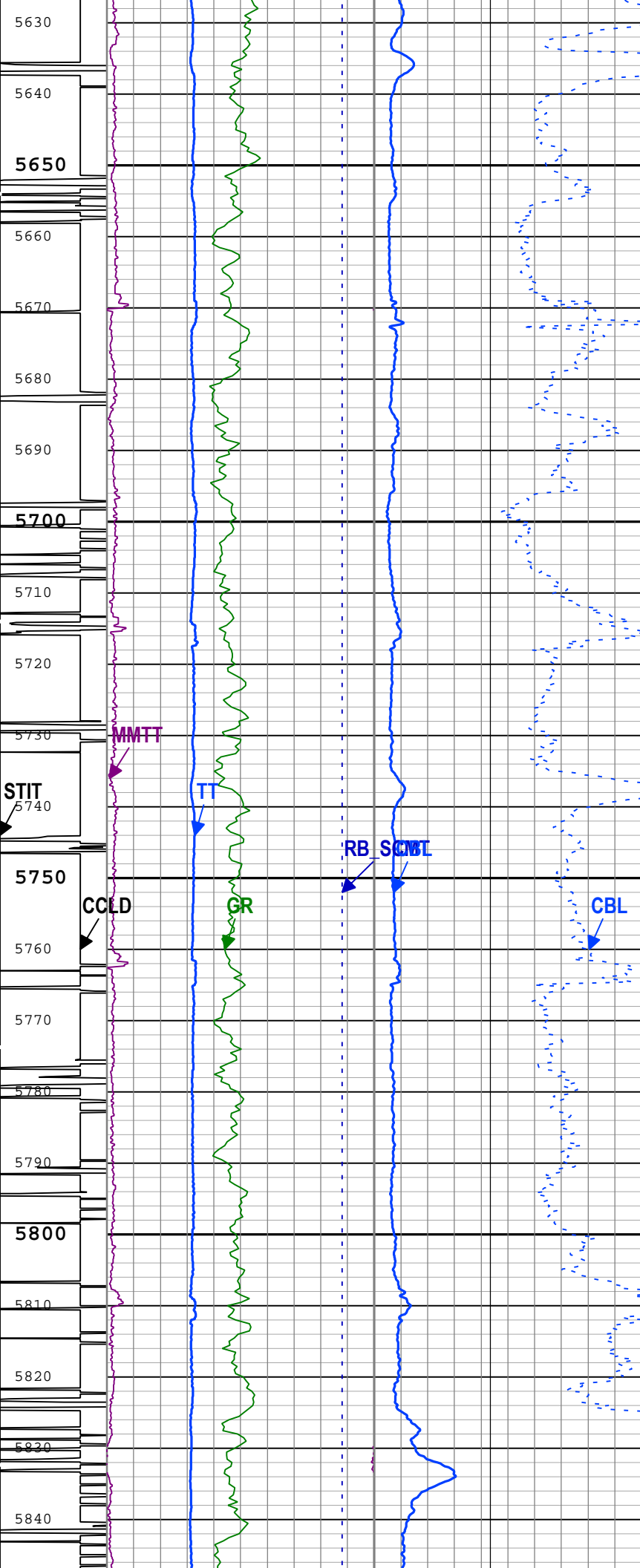




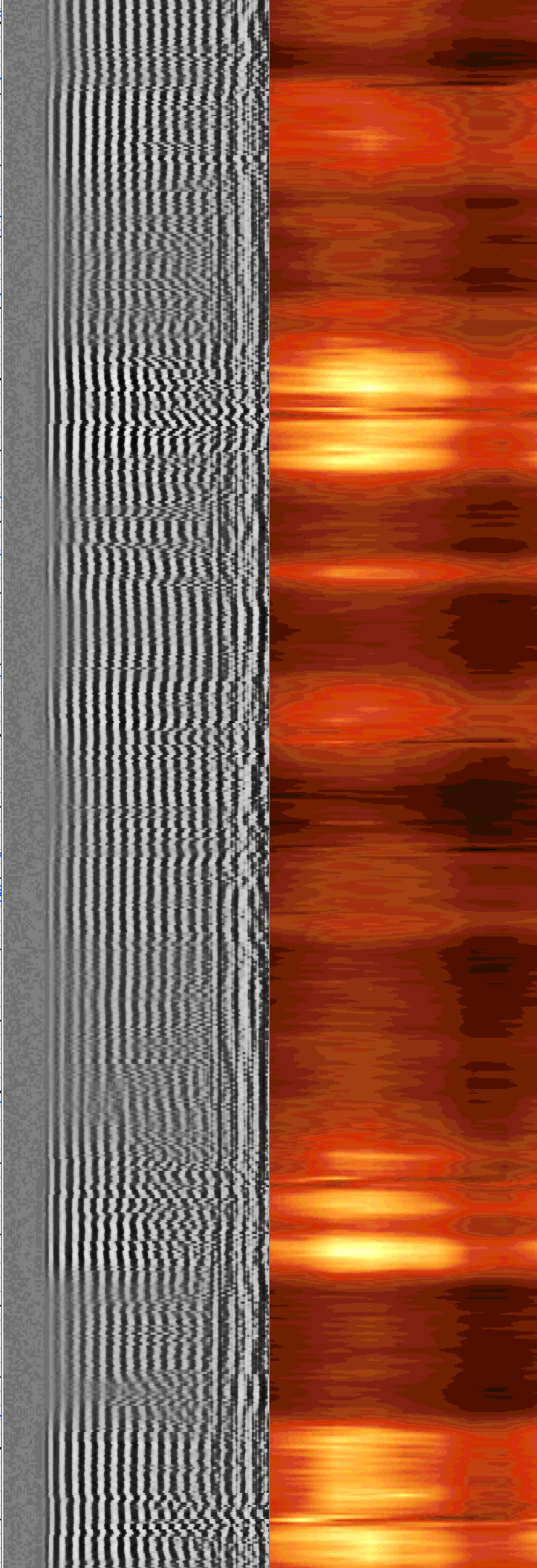
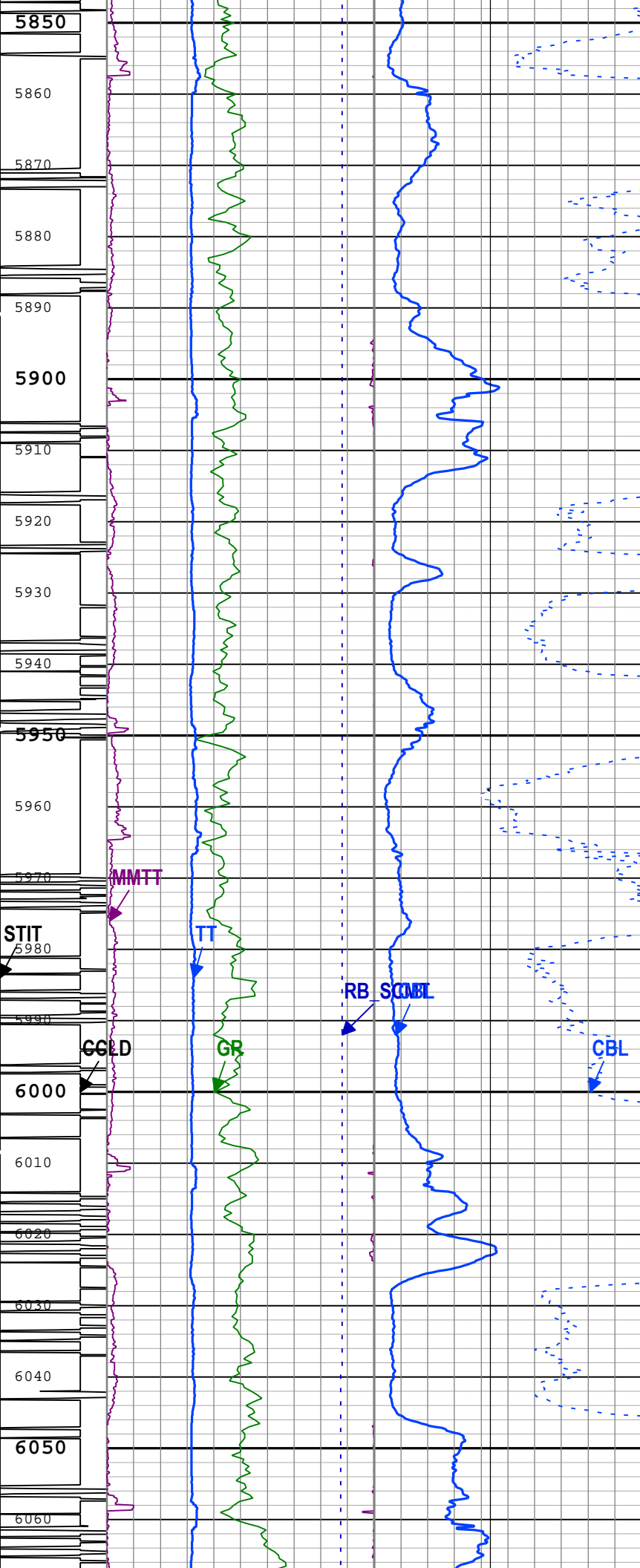


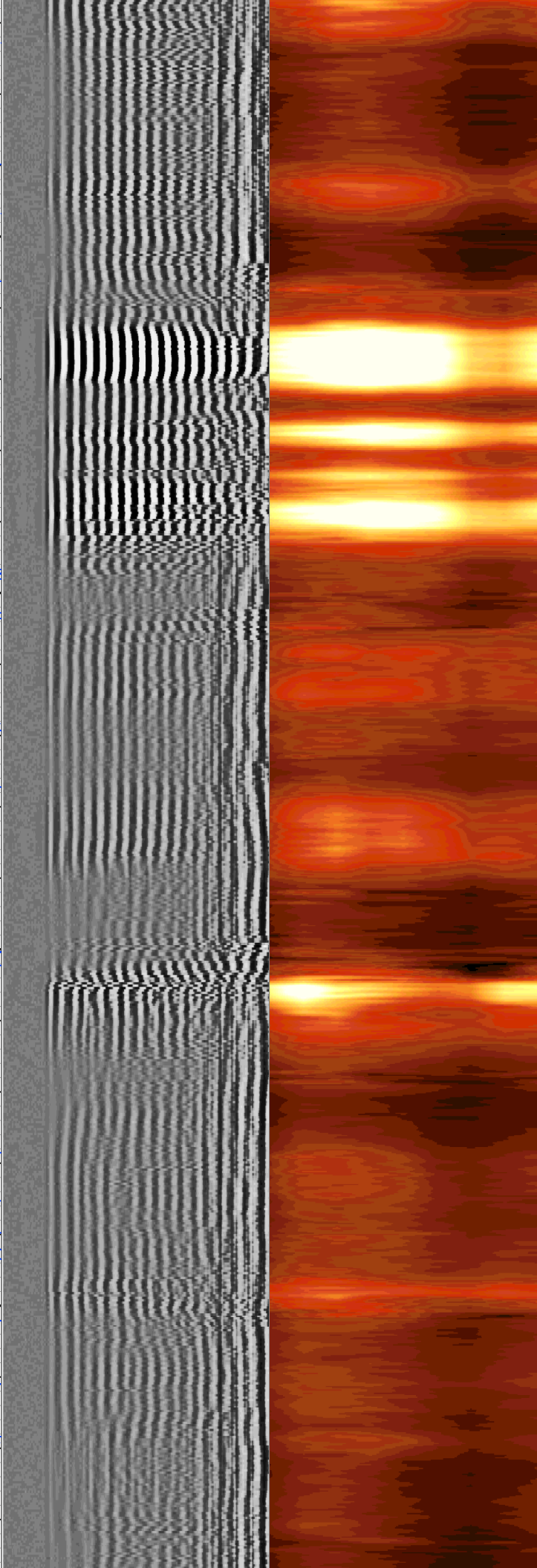
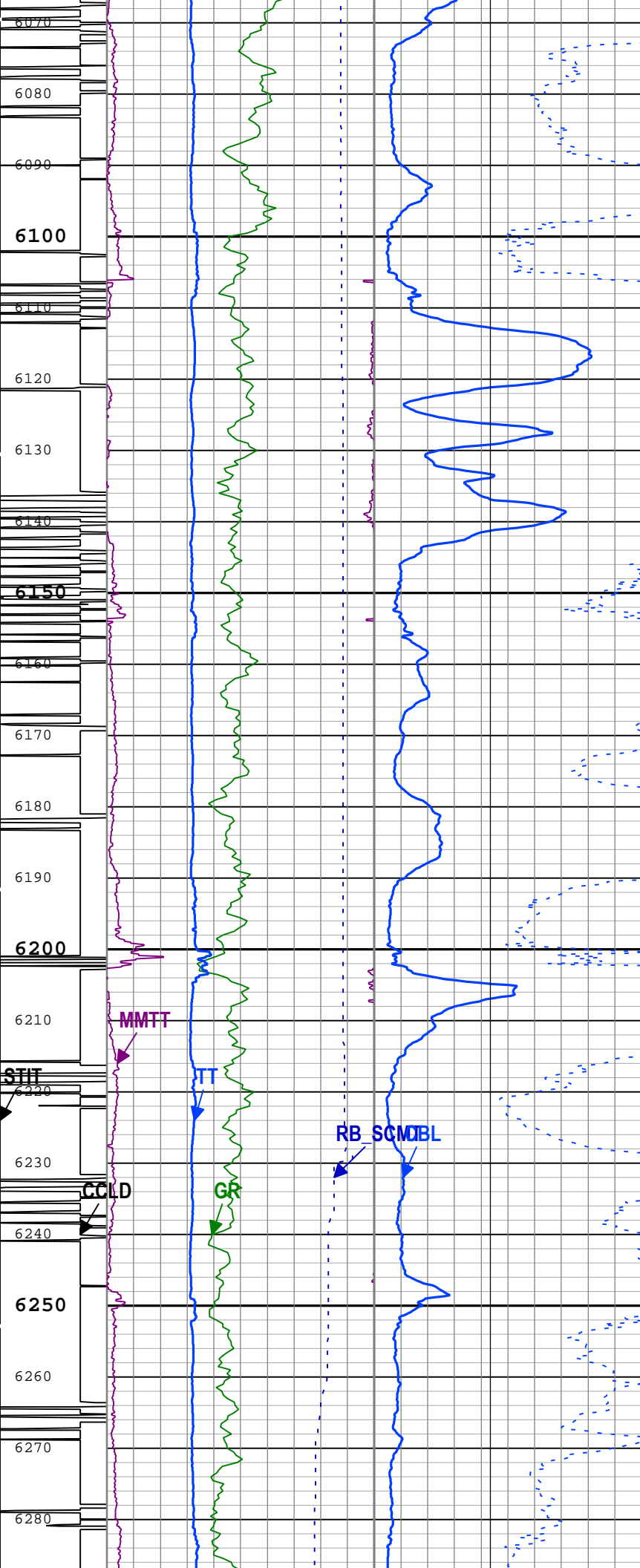


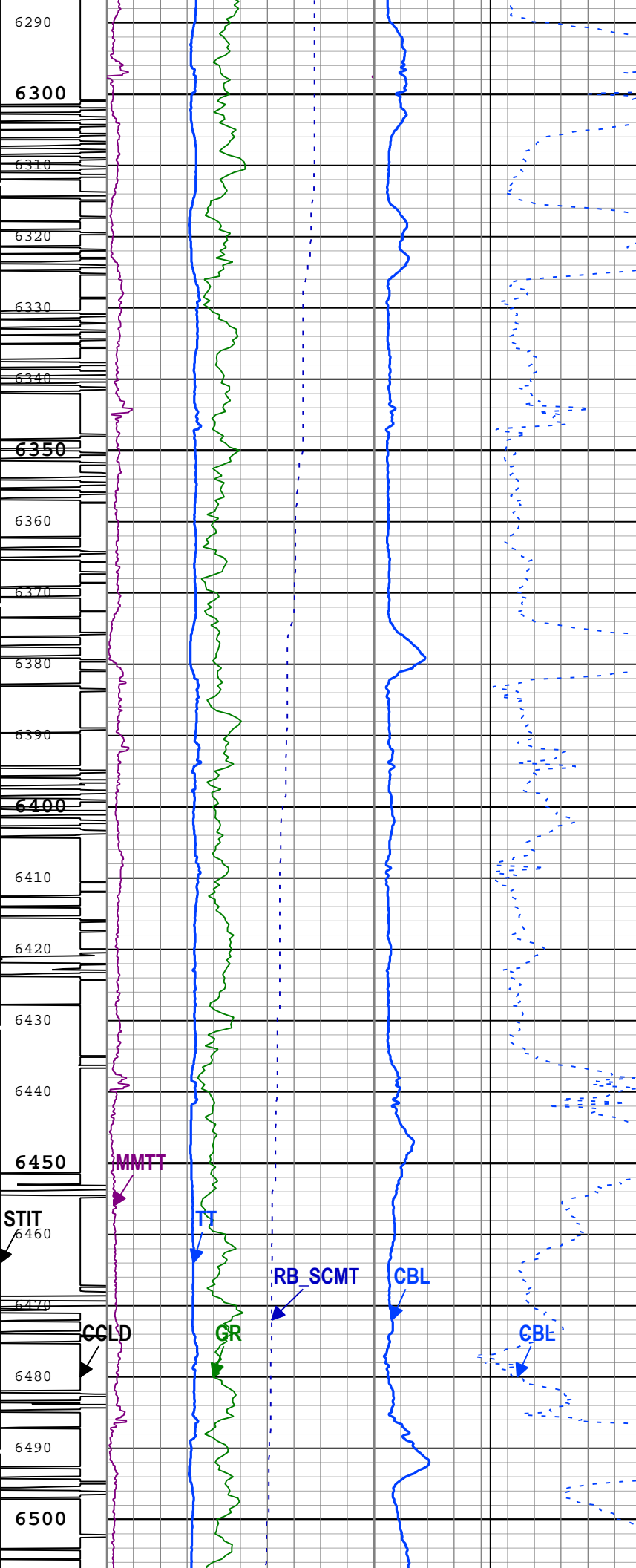




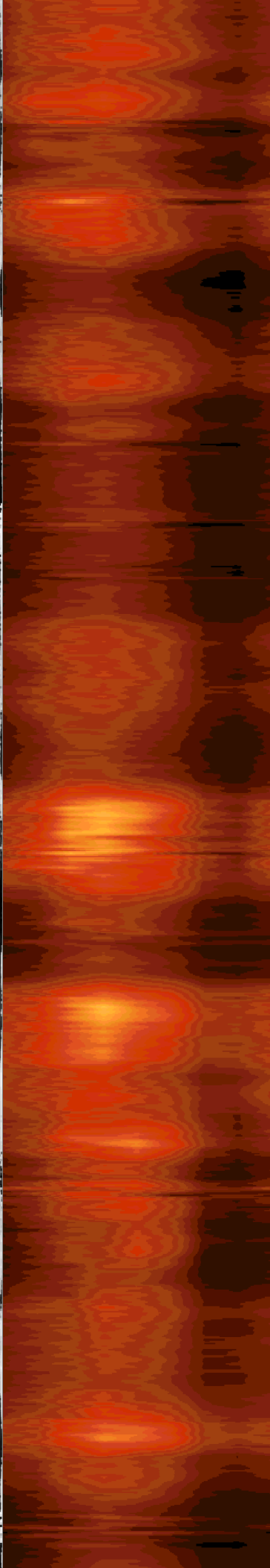
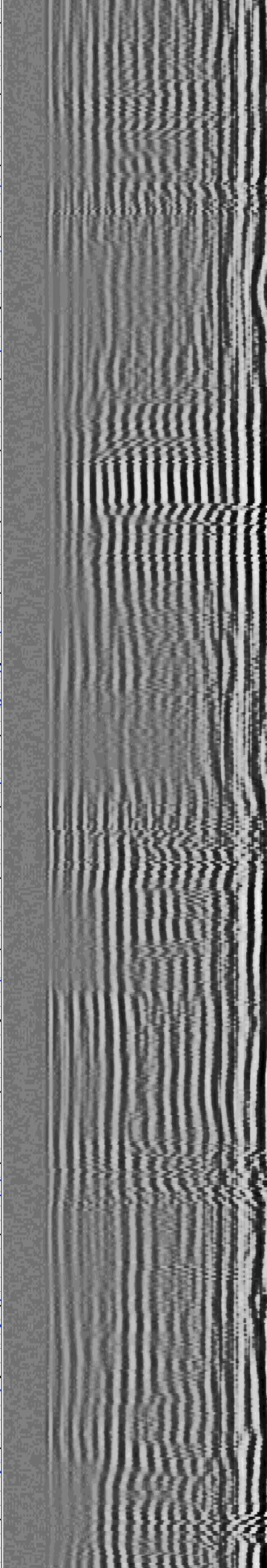
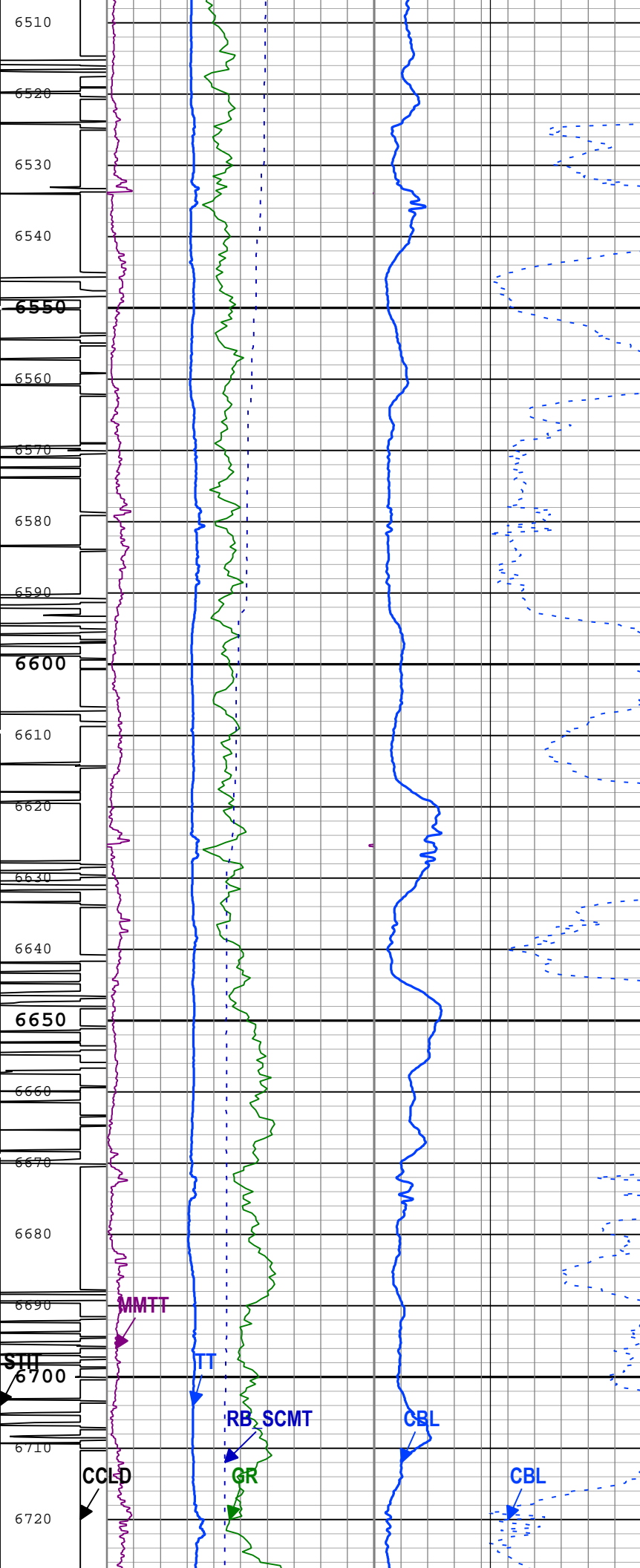


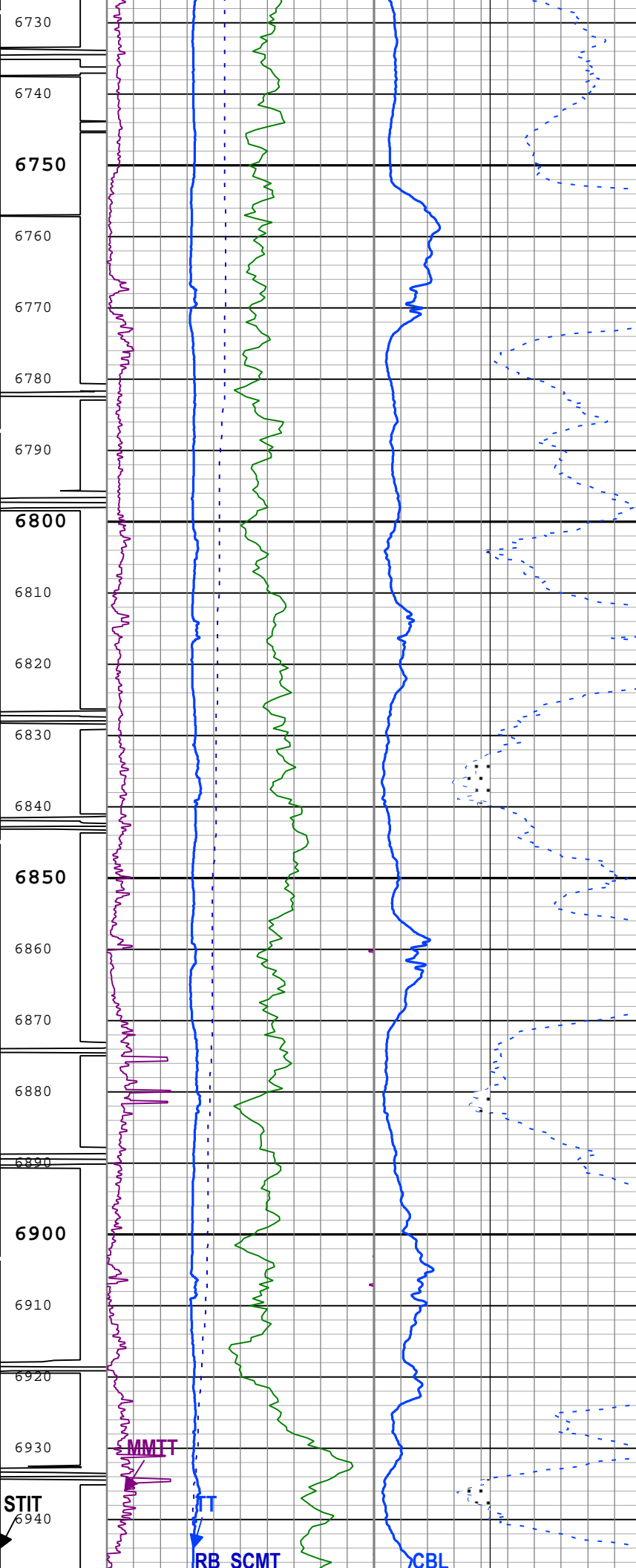


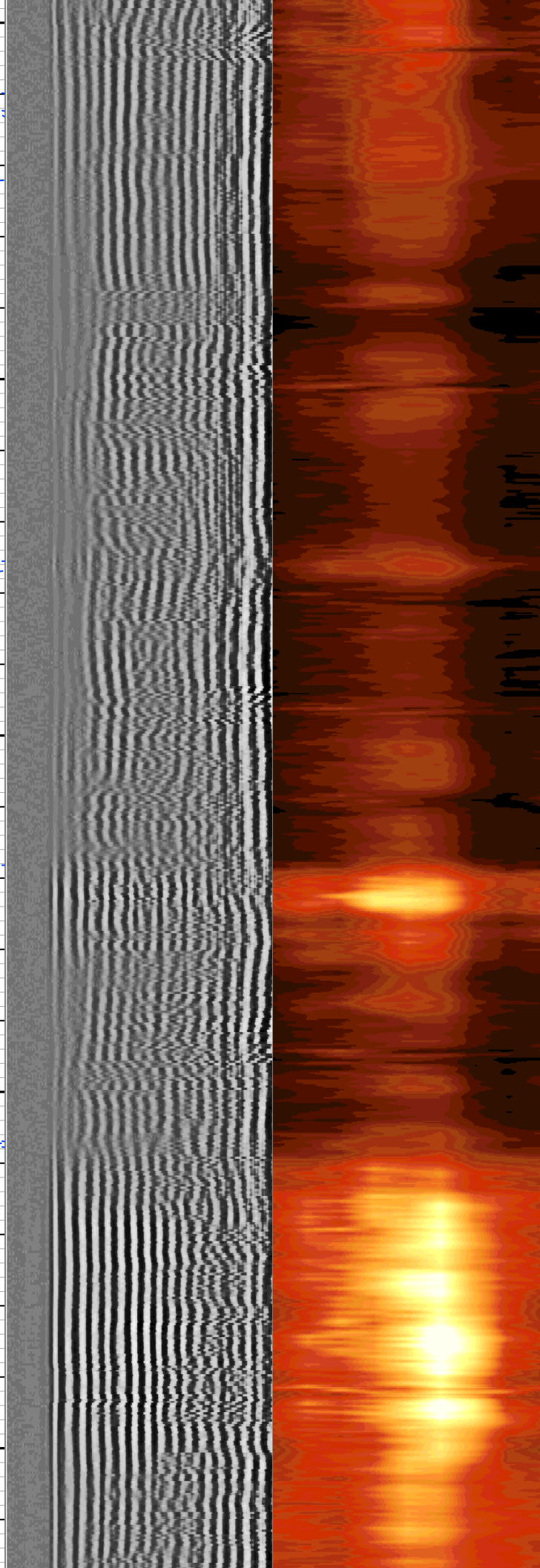
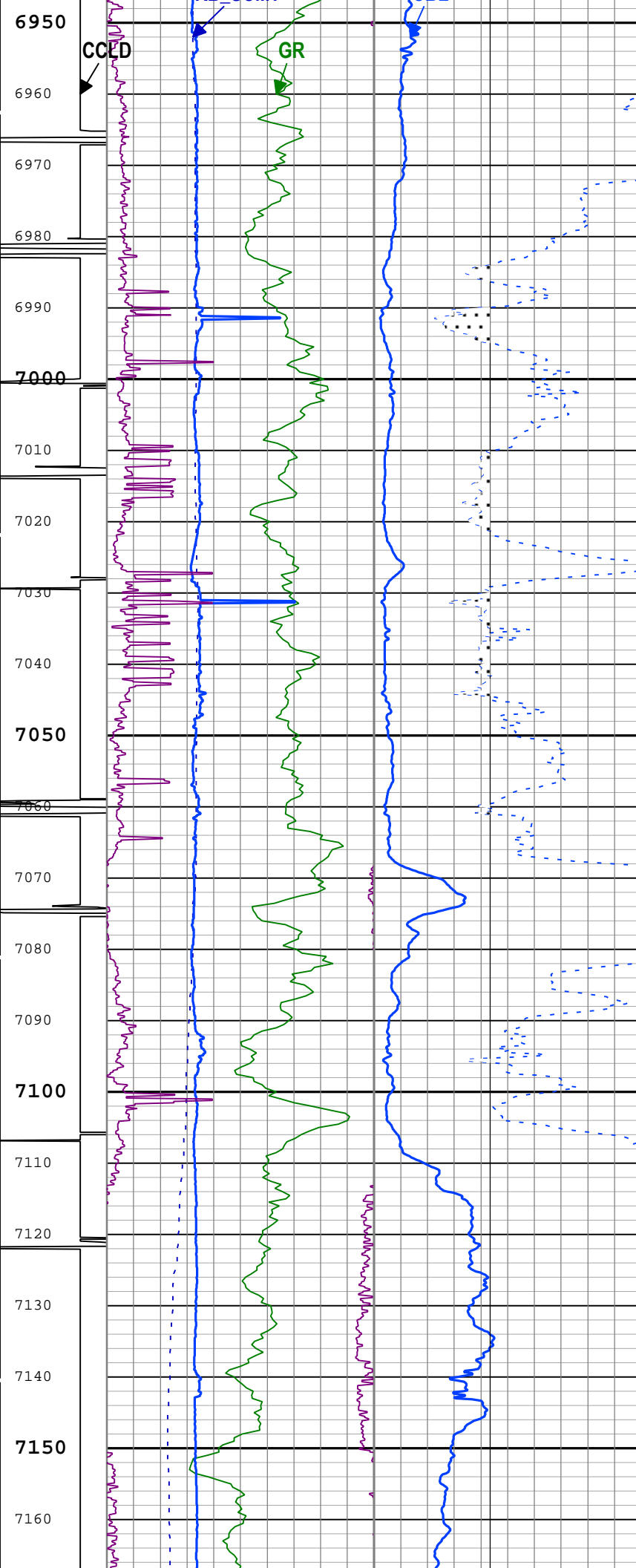


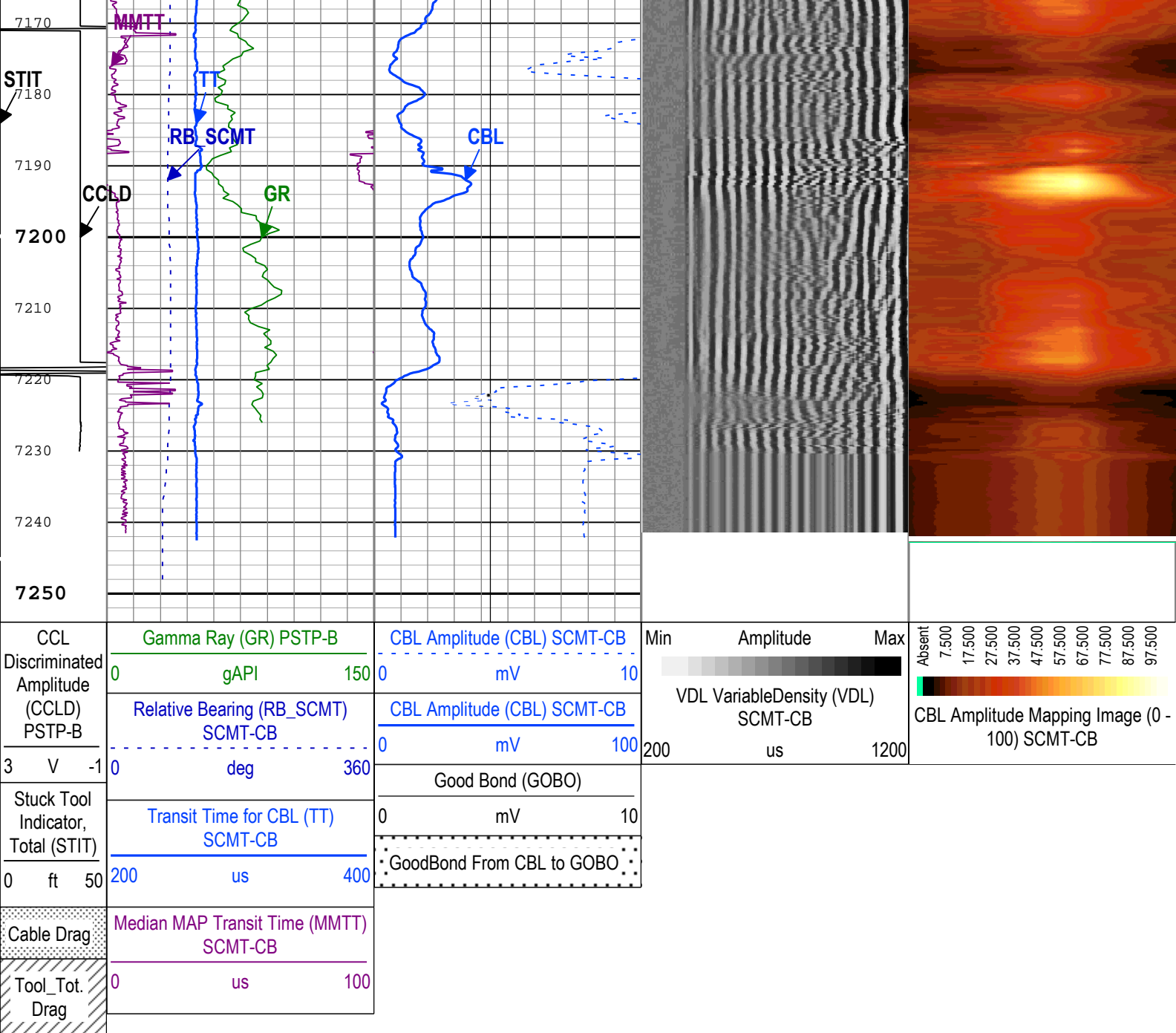












Description: SCMT VDL Image    Format: Log ( SCMT\_VDL\_Image )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 25-Nov-2015 20:01:37

## Channel Processing Parameters

### Run 2: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	250.28	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	242.1	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	71	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	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FCF	CBL Fluid Compensation Factor	SCMT-CB	1	
GTSE	Generalized Temperature Selection, from Measured or	Borehole	WTGP	



CTSC	Generalized Temperature Selection, from measured or Computed Temperature	Borehole	WFL	
M1EF	MAP sensitivity equalization factor of receiver 1	SCMT-CB	0.97	
M2EF	MAP sensitivity equalization factor of receiver 2	SCMT-CB	1.61	
M3EF	MAP sensitivity equalization factor of receiver 3	SCMT-CB	1.95	
M4EF	MAP sensitivity equalization factor of receiver 4	SCMT-CB	1.54	
M5EF	MAP sensitivity equalization factor of receiver 5	SCMT-CB	1.18	
M6EF	MAP sensitivity equalization factor of receiver 6	SCMT-CB	0.79	
M7EF	MAP sensitivity equalization factor of receiver 7	SCMT-CB	0.63	
M8EF	MAP sensitivity equalization factor of receiver 8	SCMT-CB	0.7	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-CB	182.67	us
MMSA	MAP Minimum Sonic Amplitude	SCMT-CB	10.85	mV
MSA	Minimum Sonic Amplitude	SCMT-CB	2.16	mV
RBC	Relative Bearing Correction Allow/Disallow	SCMT-CB	Disallow	
RUN_SNUM	Run Sequence Number	WSDRUN	3	
TD	Total Measured Depth	Borehole	16800	ft

## Tool Control Parameters

### Run 2: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h

## Run 2

## Software Version

Acquisition System	Version
Maxwell 2016	6.0.52439.3100

## Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 2	Repeat[2]:Up	Up	6923.53 ft	7270.96 ft	25-Nov-2015 5:08:23 PM	25-Nov-2015 5:14:28 PM	ON	1.46 ft	No

All depths are referenced to toolstring zero

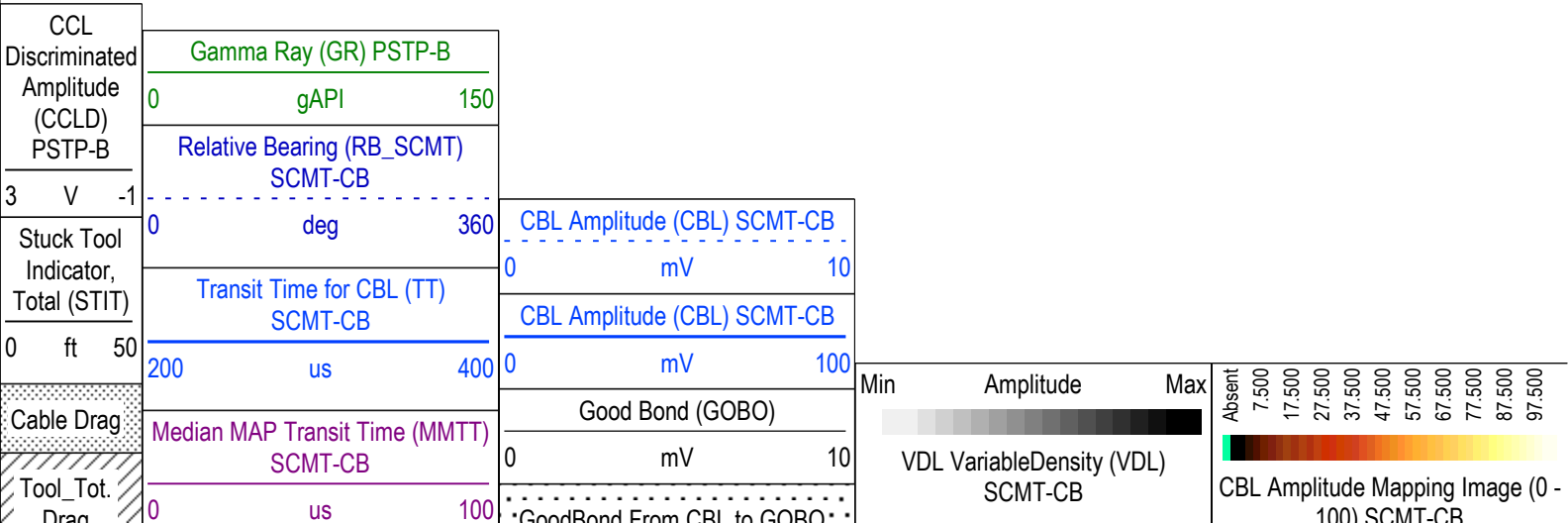
## Log

Company:Noble Energy Inc      Well:Moser H34-750

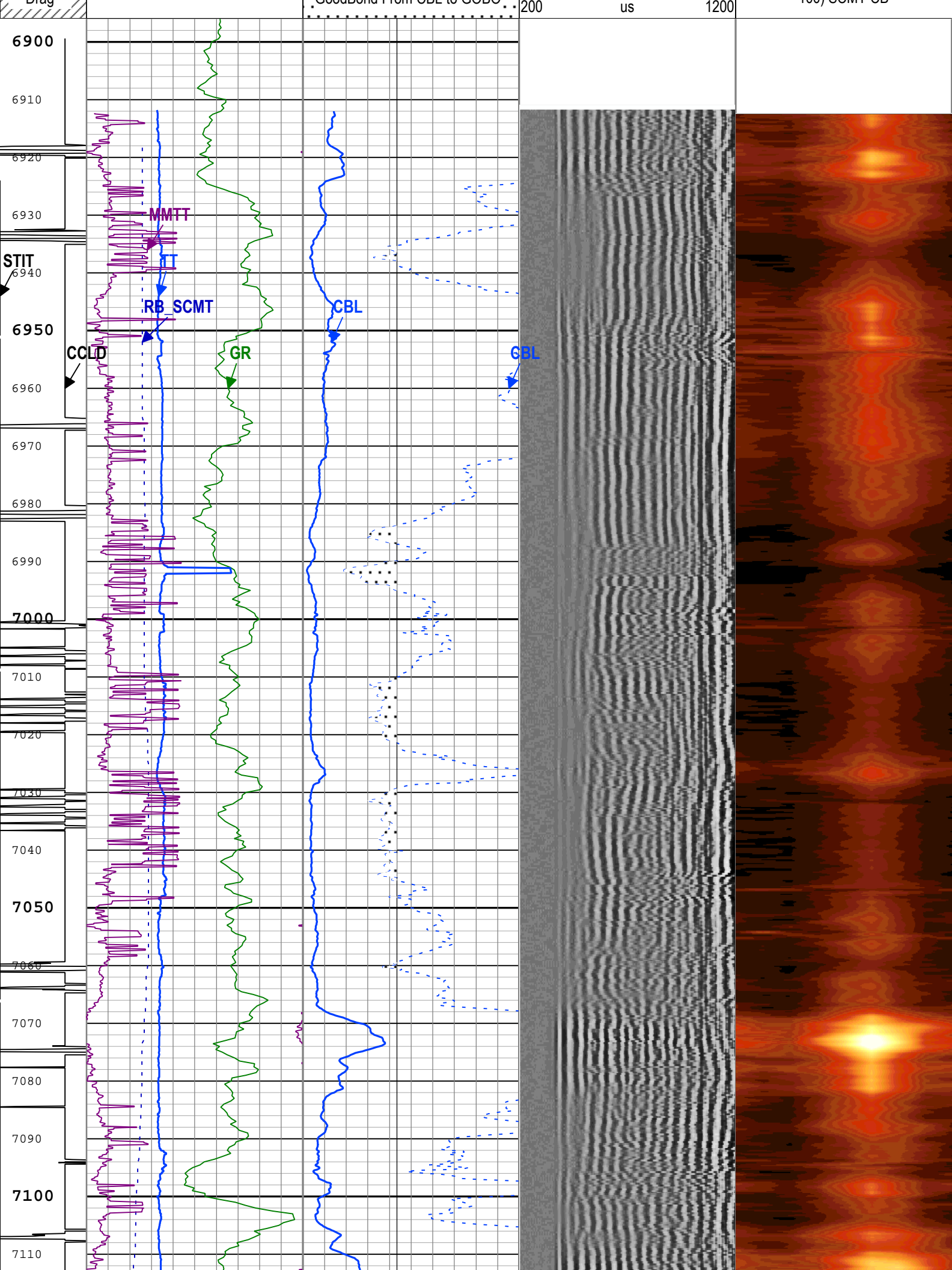
Run 2: Repeat[2]:Up:S042

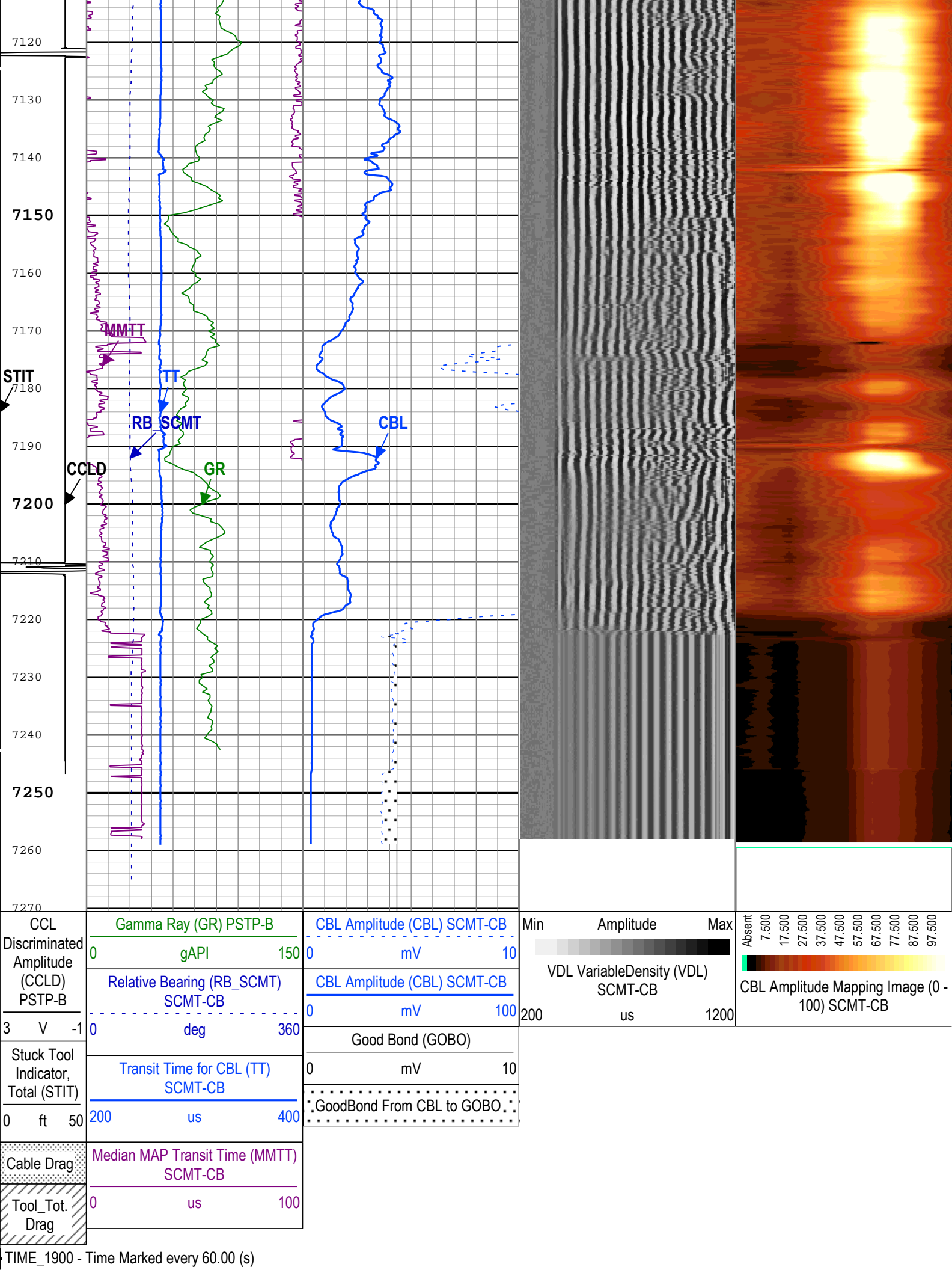
Description: SCMT VDL Image    Format: Log ( SCMT\_VDL\_Image )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 25-Nov-2015 20:01:47

TIME\_1900 - Time Marked every 60.00 (s)









Channel Processing Parameters				
Run 2: Parameters				
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	250.28	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	242.1	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	71	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	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FCF	CBL Fluid Compensation Factor	SCMT-CB	1	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
M1EF	MAP sensitivity equalization factor of receiver 1	SCMT-CB	1	
M2EF	MAP sensitivity equalization factor of receiver 2	SCMT-CB	1	
M3EF	MAP sensitivity equalization factor of receiver 3	SCMT-CB	1	
M4EF	MAP sensitivity equalization factor of receiver 4	SCMT-CB	1	
M5EF	MAP sensitivity equalization factor of receiver 5	SCMT-CB	1	
M6EF	MAP sensitivity equalization factor of receiver 6	SCMT-CB	1	
M7EF	MAP sensitivity equalization factor of receiver 7	SCMT-CB	1	
M8EF	MAP sensitivity equalization factor of receiver 8	SCMT-CB	1	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	SCMT-CB	182.67	us
MMSA	MAP Minimum Sonic Amplitude	SCMT-CB	10.85	mV
MSA	Minimum Sonic Amplitude	SCMT-CB	2.16	mV
RBC	Relative Bearing Correction Allow/Disallow	SCMT-CB	Disallow	
RUN_SNUM	Run Sequence Number	WSDRUN	3	
TD	Total Measured Depth	Borehole	16800	ft

Tool Control Parameters				
Run 2: Parameters				
Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h

Calibration Report				
SCMT-CB (Slim Cement Mapping Tool, 1-11/16 OD) Calibration - Run 2				
Primary Equipment :				
Slim Cement Mapping Sonde		SCMS-CB	8372	

CBL and MAP Amplitude Normalization - Measurements							
Master (File):		13:09:55 24-Nov-2015					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 4 Temperature/Pressure Compensated	mV	Master	----	----	----	----	

MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master					
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	

CBL and MAP Amplitude Normalization - Coefficients							
Master (File):		13:09:55 24-Nov-2015					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Normalization Temperature in SFT Tube	degF	Master			74.10		
CBL Correction Factor		Master			0.062		
MAP 1 Correction Factor		Master			0.090		
MAP 2 Correction Factor		Master			0.111		
MAP 3 Correction Factor		Master			0.112		

MAP 4 Correction Factor		Master			0.112		
MAP 5 Correction Factor		Master			0.109		
MAP 6 Correction Factor		Master			0.096		
MAP 7 Correction Factor		Master			0.094		
MAP 8 Correction Factor		Master			0.104		

## CBL and MAP Amplitude Adjustment - Measurements

Before (Measured): 19:48:49 25-Nov-2015

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Amplitude	mV	Before			54.94		
Average MAP Amplitude (Fluid Compensated)	mV	Before			74.44		
Measurement Depth	ft	Before			179.28		

## CBL and MAP Amplitude Adjustment - Coefficients

Before (Measured): 19:48:49 25-Nov-2015

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Adjustment Factor		Before			1.292		
CBL LQC Reference Amplitude in Free Pipe	mV	Before			71.00		
MAP Adjustment Factor		Before			1.343		
Depth of Before Calibration	ft	Before			179.28		

## PSTP-B (PSP Telemetry Platform B - Quartz) Calibration - Run 2

Primary Equipment :

PBMS-B

PBMS-B

4785

Calibration Parameter :

JIG-BKGD

### PBMS RTD Well Thermometer Master Calibration

Master (EEPROM):	00:00:00 23-Oct-2013					
PBMS_RTD_THERM (Master)	RTD Coefficients					
	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tt**0	3590.834	-3814.345	1457.729	-240.4961	14.87112	0

### PBMS Gamma Ray Master Calibration

Master (EEPROM):	00:00:00 14-Dec-2013				
PBMS_GR_MODEL (Master)	GR Coefficients				
	Rt**0			Rt**1	
Rt**0	2000			1790	

### PBMS CQG Master Calibration

Master (EEPROM):	00:00:00 23-Oct-2013					
PBMS_P_GAUGE_PRE (Master)	CQG Pressure Model Coefficients					
	Fb**0	Fb**1	Fb**2	Fb**3	Fb**4	Fb**5
Fc**0	8357.748	0.03008868	2.247234E-07	-7.799753E-11	-1.13647E-16	-6.938739E-20
Fc**1	-1.05514	-1.282427E-05	-1.033689E-10	-5.459842E-16	4.44398E-20	0
Fc**2	1.026428E-06	4.685515E-11	1.137004E-15	0	0	0
Fc**3	1.235781E-12	1.55603E-16	0	0	0	0
Fc**4	0	0	0	0	0	0
Fc**5	0	0	0	0	0	0

PBMS_P_GAUGE_TEMP (Master)	CQG Temperature Model Coefficients					
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(Master)

	Fc**0	Fc**1	Fc**2	Fc**3	Fc**4	Fc**5
Fb**0	126.4079	-0.0003761023	6.932981E-09	3.975792E-13	-1.227317E-17	-3.523365E-21
Fb**1	-0.006092092	1.957618E-08	2.360367E-15	-6.912805E-18	-1.688305E-21	0
Fb**2	-9.154806E-09	-1.595766E-13	2.46875E-17	0	0	0
Fb**3	-1.249628E-12	3.25082E-17	0	0	0	0
Fb**4	0	0	0	0	0	0
Fb**5	0	0	0	0	0	0

PBMS\_CQG\_FCLK\_FREQ CQG Clock Frequency Model Coefficients  
(Master)

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	31075.94	0.002803827	6.939392E-07	-6.545451E-11	-4.175611E-16	1.266099E-21

PBMS\_CQG\_FCLK\_TEMP CQG Clock Temperature Model Coefficients  
(Master)

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	116.0681	-0.005552122	-5.724419E-08	-5.003935E-12	9.781305E-16	-3.787513E-20

Company:	Noble Energy Inc	Schlumberger
Well:	Moser H34-750	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
Slim Cement Mapping Tool		
Cement Evaluation		