

Company: CAERUS OIL & GAS LLC

Well: NPR 24D-3 596

Field: NPR

County: GARFIELD State: COLORADO

CEMENT BOND LOG

RST SIGMA LOG

GAMMA RAY - COLLAR LOCATOR LOG

County:	GARFIELD		
Field:	NPR		
Location:	NPR A03 596 PAD		
Well:	NPR 24D-3 596		
Company:	CAERUS OIL & GAS LLC		
Location:	NPR A03 596 PAD	Elev.:	K.B. 8361.00 ft
	SE 1/4 NE 1/4		G.L. 8331.00 ft
	SEC3, T5S, R96W		D.F. 8361.00 ft
	Permanent Datum:	Ground Level	Elev.: 8331.00 f
	Log Measured From:	Kelly Bushing	30.00 ft above Perm.Datum
Drilling Measured From:	Kelly Bushing		
	API Serial No.	Section:	Township:
	504524000000	3	5S
Logging Date	09-Mar-2019		
Run Number	ONE		
Depth Driller	11823.00 ft		
Schlumberger Depth	11823.00 ft		
Bottom Log Interval	11750.00 ft		
Top Log Interval	1850.00 ft		
Casing Fluid Type	Water		
Salinity			
Density	8.4 lbm/gal		
Fluid Level	8.00 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.50 in		
From	9379.00 ft		
To	11823.00 ft		
Casing/Tubing Size	4.5 in		
Weight	11.6 lbm/ft		
Grade	P110		
From	0.00 ft		
To	11803.10 ft		
Max Recorded Temperatures	278 degF		
Logger on Bottom	09-Mar-2019	06:52:00	
Unit Number	MSLC-AR2 3007	EVASNTON, WY	
Recorded By	B. GUATTA / A. VOYAGE		
Witnessed By	ED KOENIG		

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. Remarks and Equipment Summary
- 7. Depth Summary
- 8. ONE CBL-VDL MAIN PASS [5:100]
  - 8.1 Integration Summary
  - 8.2 Software Version
  - 8.3 Composite Summary
  - 8.4 Log ( Sonic CBL with VDL )
  - 8.5 Parameter Listing
- 9. ONE RST SIGMA MAIN PASS [5:100]
  - 9.1 Integration Summary
  - 9.2 Software Version
  - 9.3 Composite Summary

- 10.5 Parameter Listing
- 11. ONE RST SIGMA REPEAT PASS [5:100]
  - 11.1 Integration Summary
  - 11.2 Software Version
  - 11.3 Composite Summary
  - 11.4 Log ( RST SIGMA Answer )
  - 11.5 Parameter Listing
- 12. Tail

9.4 Log ( RST SIGMA Answer )

9.5 Parameter Listing

10. ONE CBL-VDL REPEAT PASS [5:100]

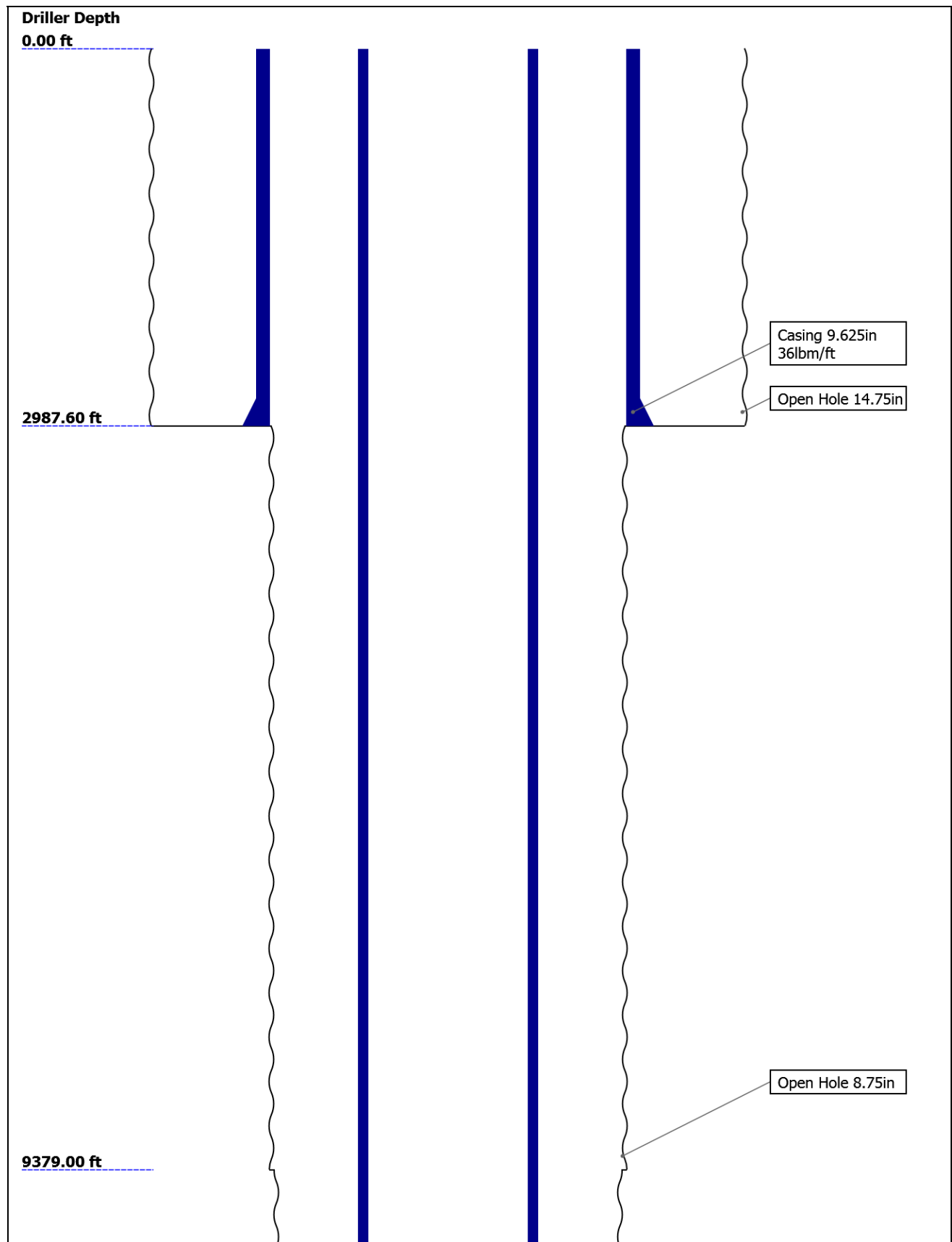
10.1 Integration Summary

10.2 Software Version

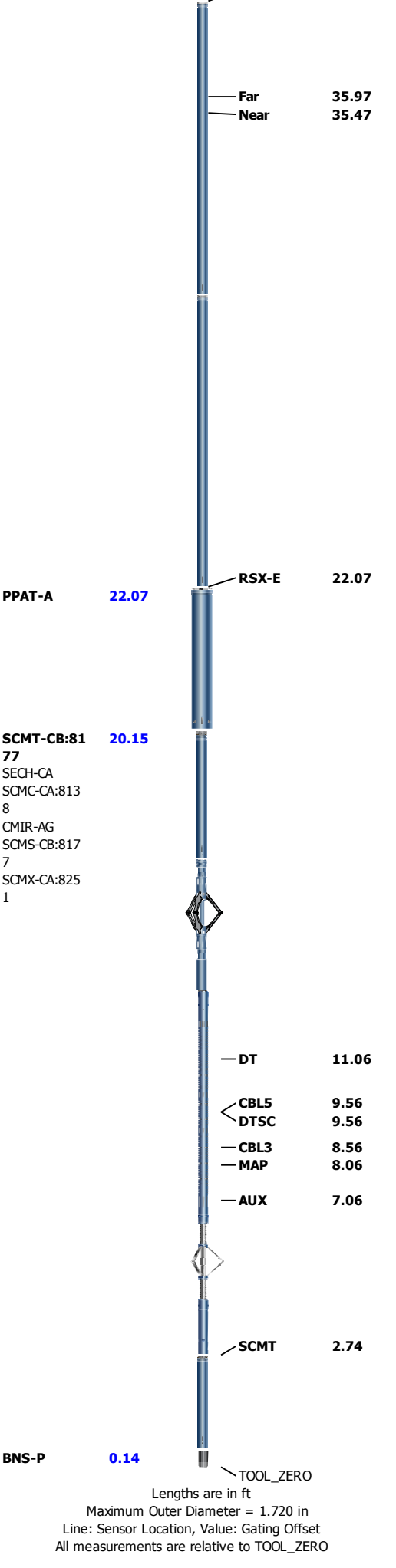
10.3 Composite Summary

10.4 Log ( Sonic CBL with VDL )

## Well Sketch







## Depth Summary

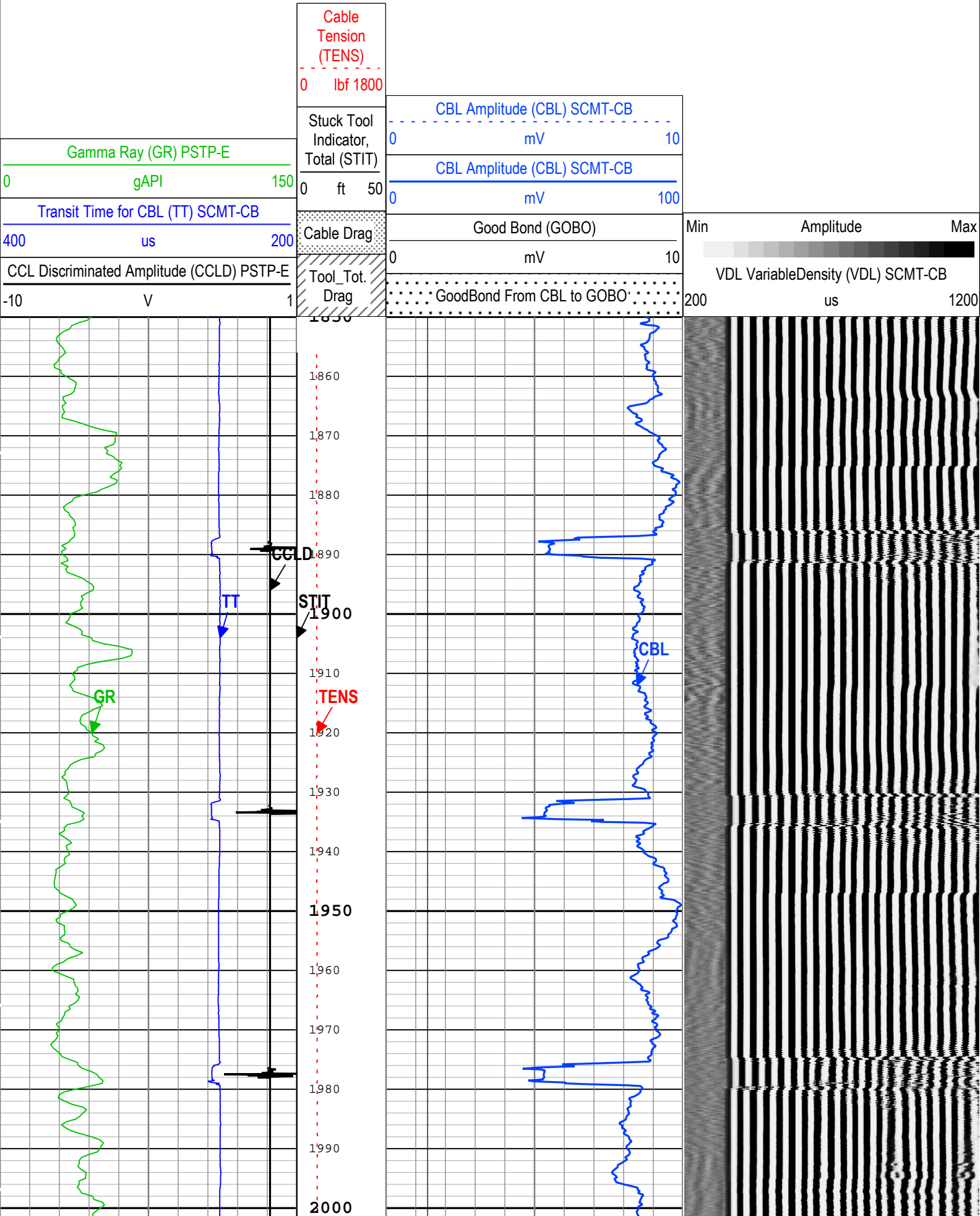


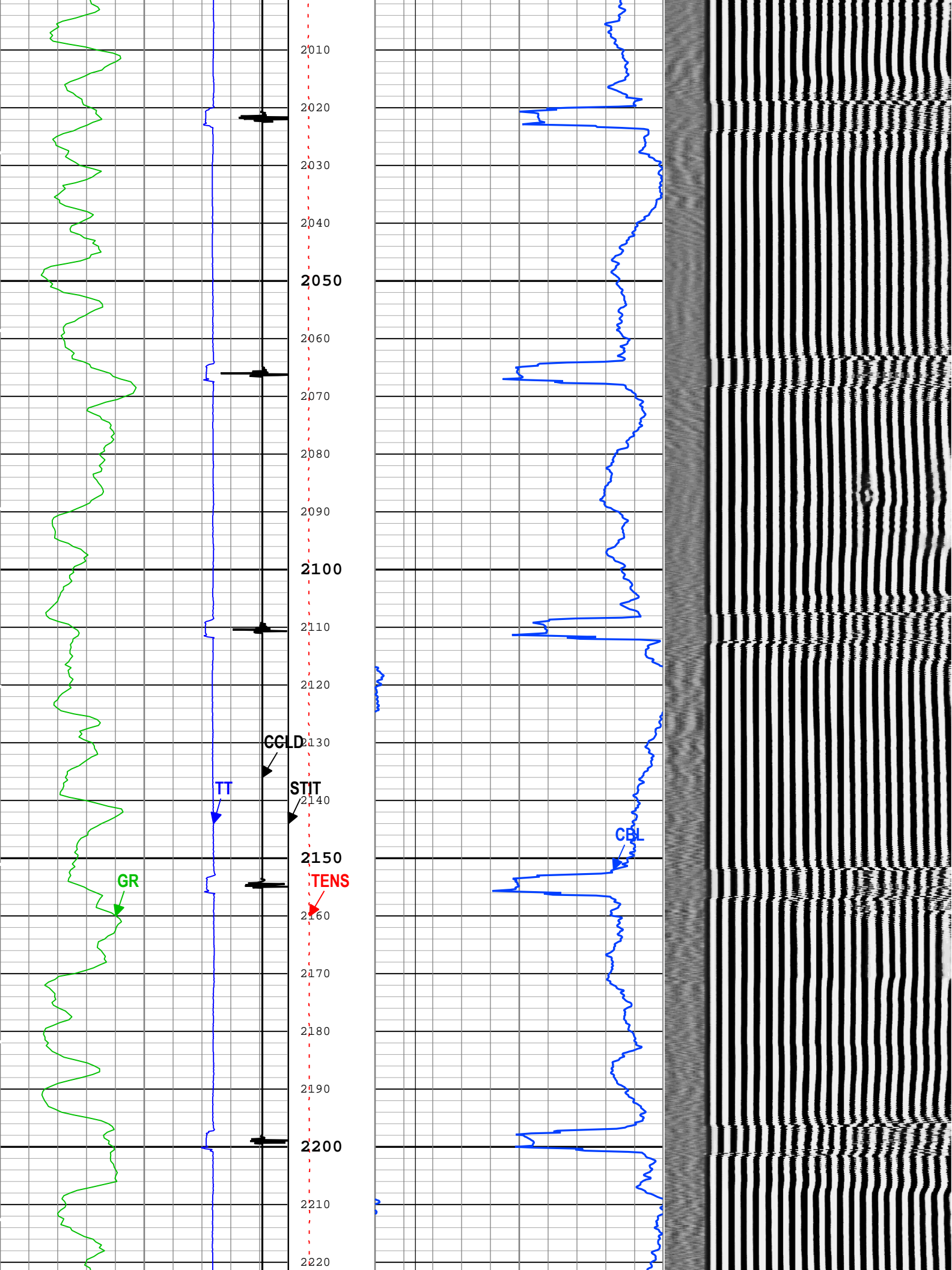
		ONE							
Depth Measuring Device									
Type		IDW-JA							
Serial Number		6912							
Calibration Date		21-JAN-2019							
Calibrator Serial Number		57							
Calibration Cable Type		1-25ZA-XXS							
Wheel Correction 1		-4							
Wheel Correction 2		-5							
Tension Device									
Type		CMTD-B/A							
Serial Number		5036							
Calibration Date		22-JAN-2019							
Calibrator Serial Number		282973A							
Number of Calibration Points		10							
Calibration Root Mean Square Error		16							
Calibration Peak Error		22							
Logging Cable									
Type		1-25ZA-XXS							
Serial Number		F112140							
Length		17000.00 ft							
Conveyance Type		Wireline							
Rig Type		MAST							
ONE:Depth Control Parameters					Depth Control Remarks				
Log Sequence		First Log In the Well			ALL SCHLUMBERGER DEPTH CONTROLS AND PROCEDURES FOLLOWED  IDW USED AS PRIMARY DEPTH CONTROL DEVICE  Z-CHART USED AS SECONDARY DEPTH CONTROL DEVICE.  ALL LOGS CORRELATED TO DOWN PASS				
Rig Up Length At Surface									
Rig Up Length At Bottom									
Rig Up Length Correction									
Stretch Correction		6.01 ft							
Tool Zero Check At Surface									
ONE									
CBL-VDL MAIN PASS [5:100]									
Software Version									
Acquisition System						Version			
Maxwell 2018 SP2						8.2.104493.3100			
Application Patch						Wireline_Hotfix-Mandatory-2018.2_8.2.108371			
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	1855.61 ft	11772.19 ft	09-Mar-2019 6:51:19 AM	09-Mar-2019 12:28:14 PM	ON	6.01 ft	No
All depths are referenced to toolstring zero									
Log					Company:CAERUS OIL & GAS LLC			Well:NPR 24D-3 596	
								ONE: Log[4]:Up:S004	

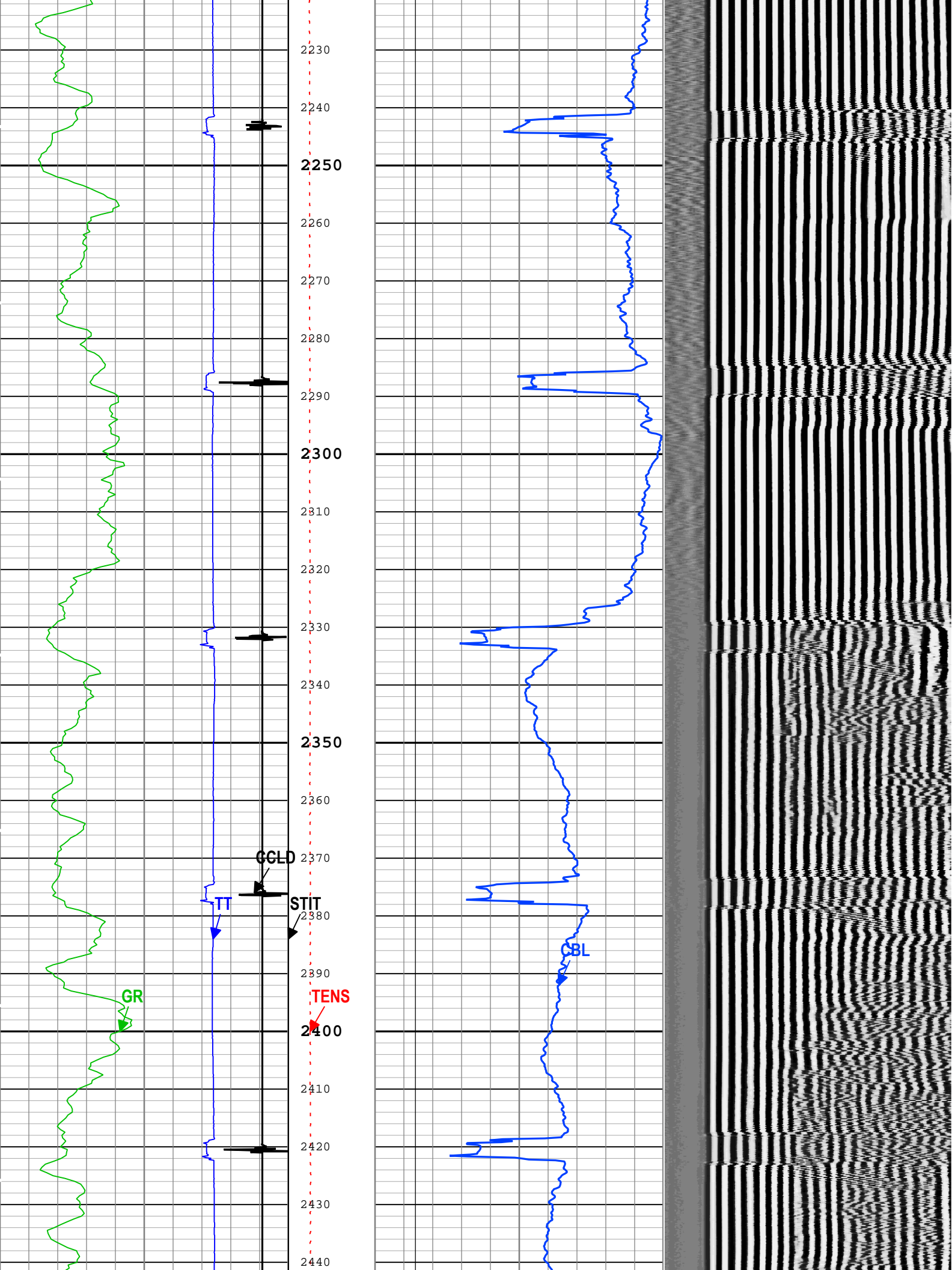
Position: Core: CBL-VDL Main Pass (Core: CBL-VDL) Shot: 5 Shot: 100

TIME\_1900 - Time Marked every 60.00 (s)

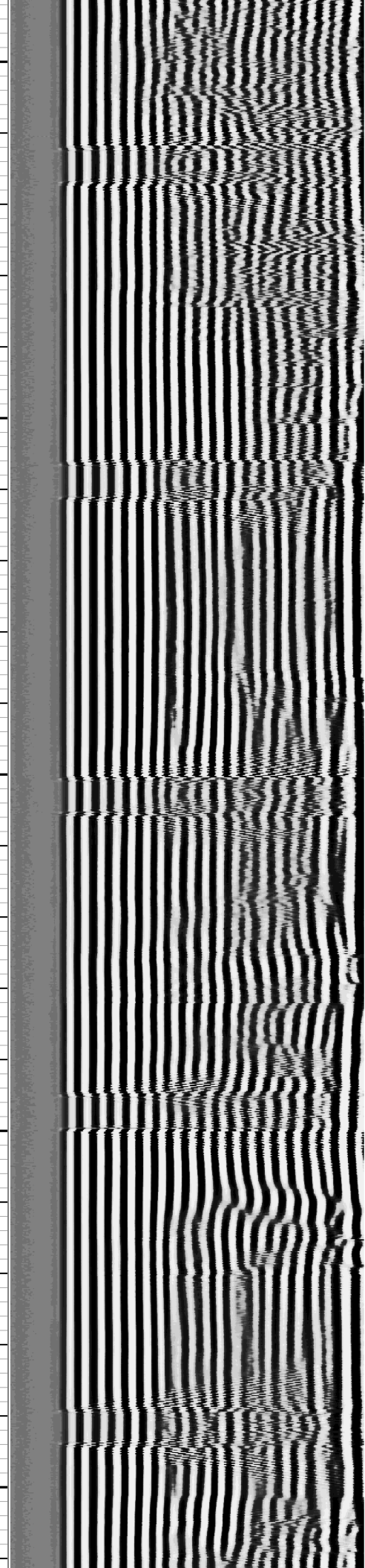
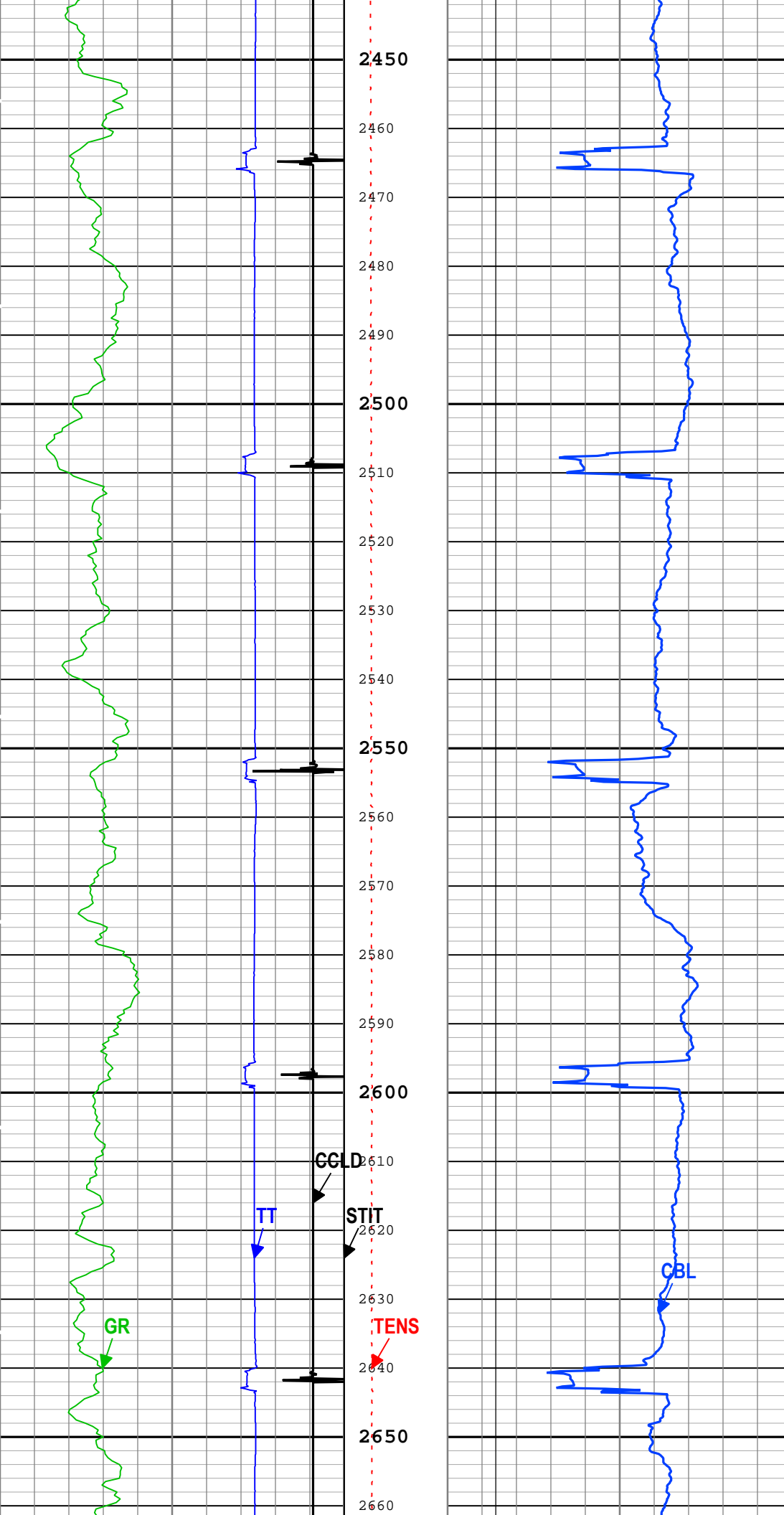
■ BIEP - Bond Index Event Pips SCMT-CB

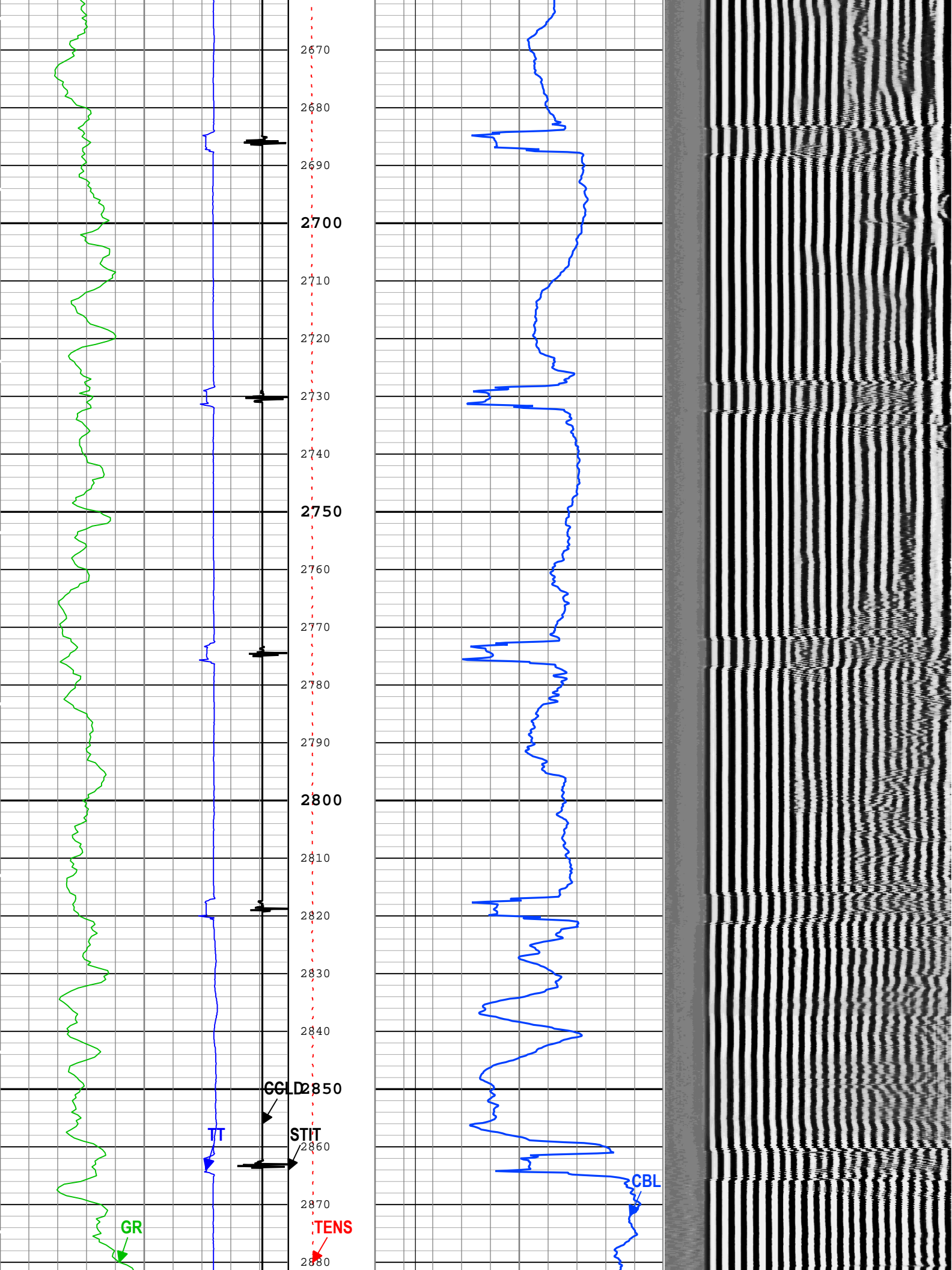


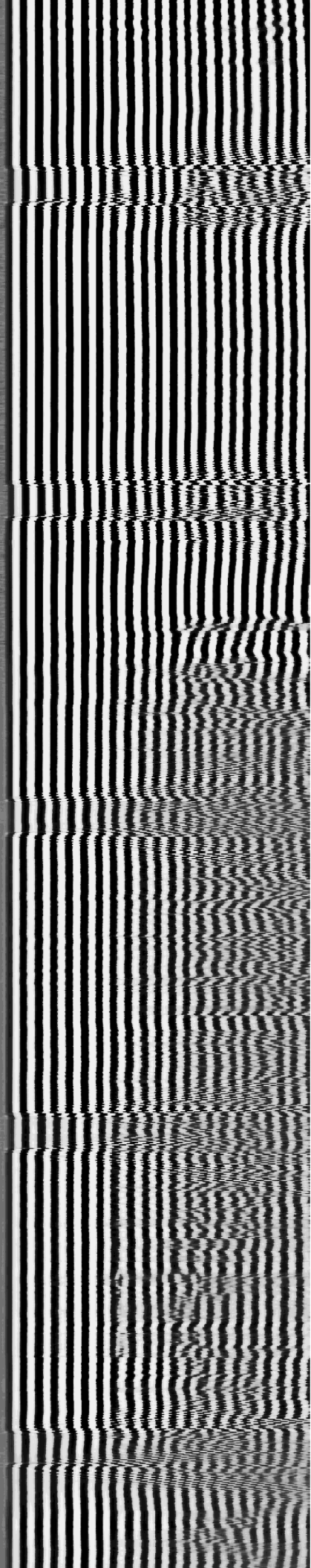
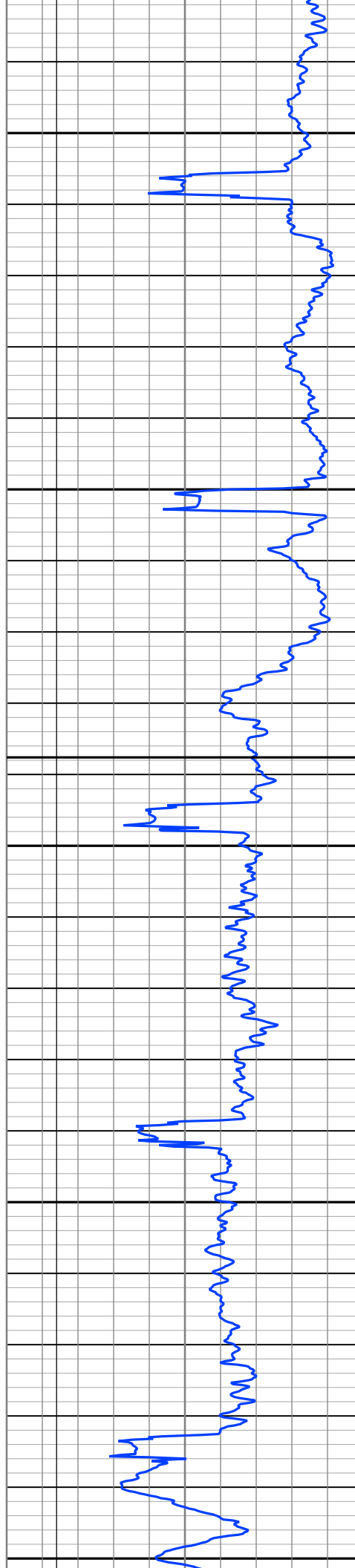
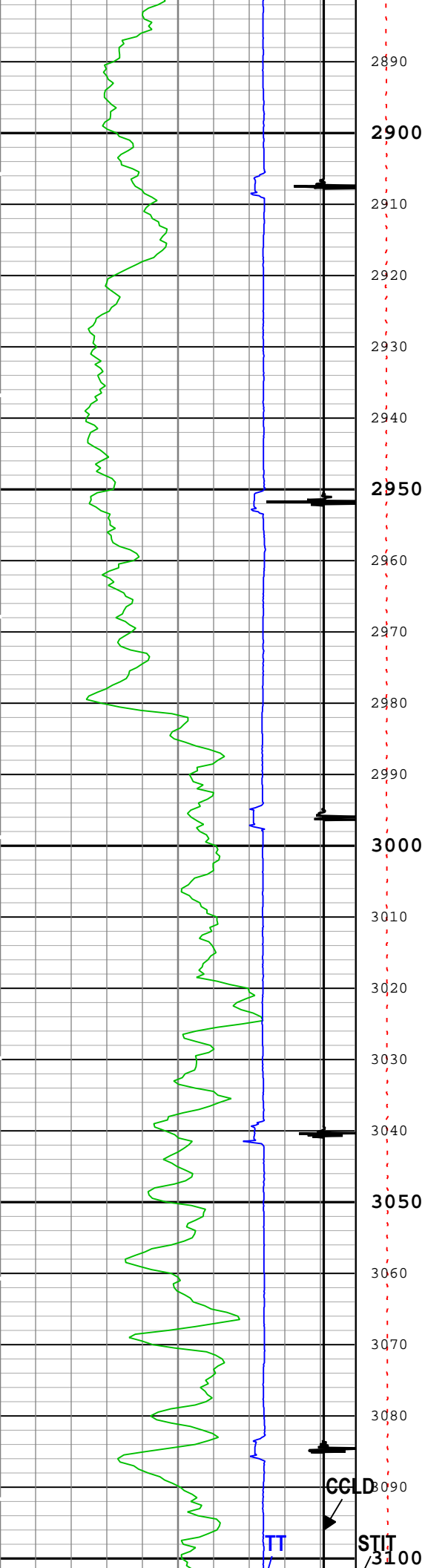




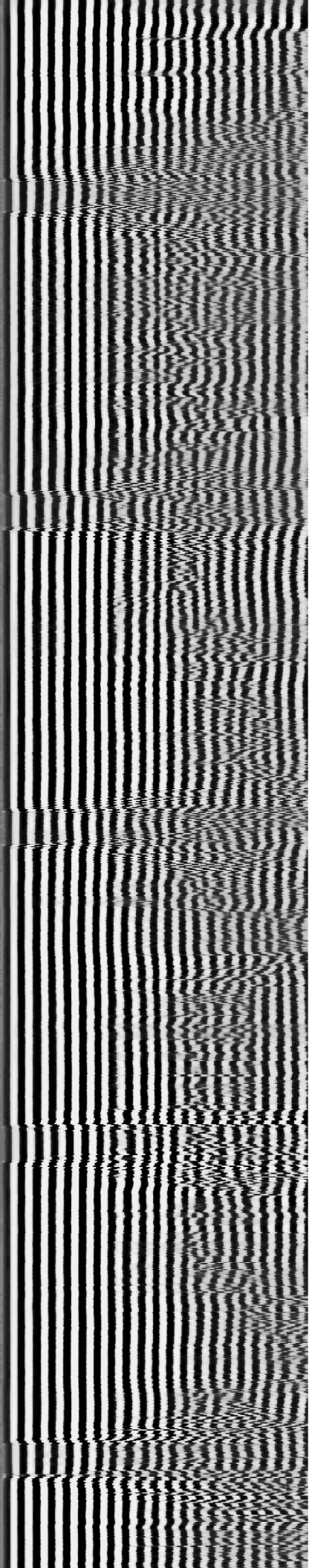
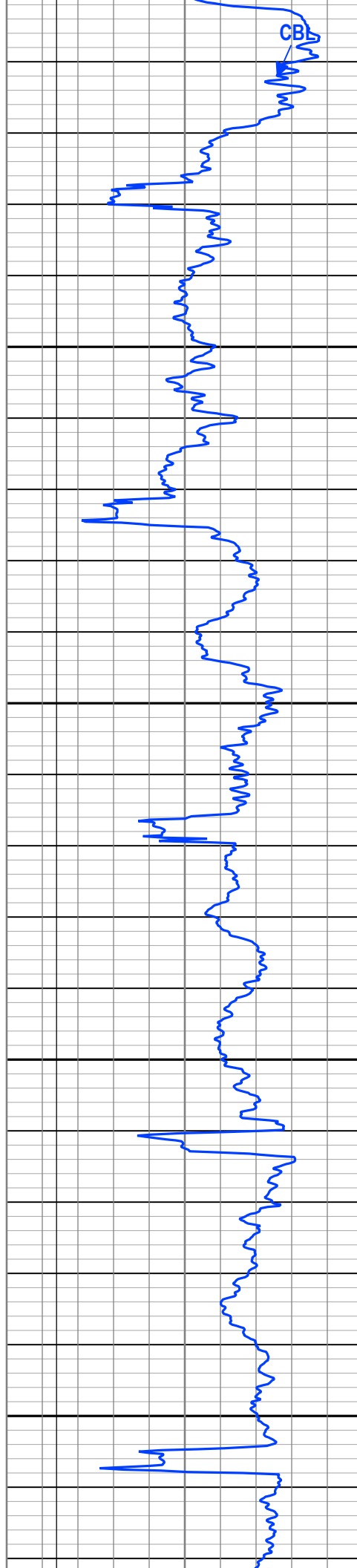
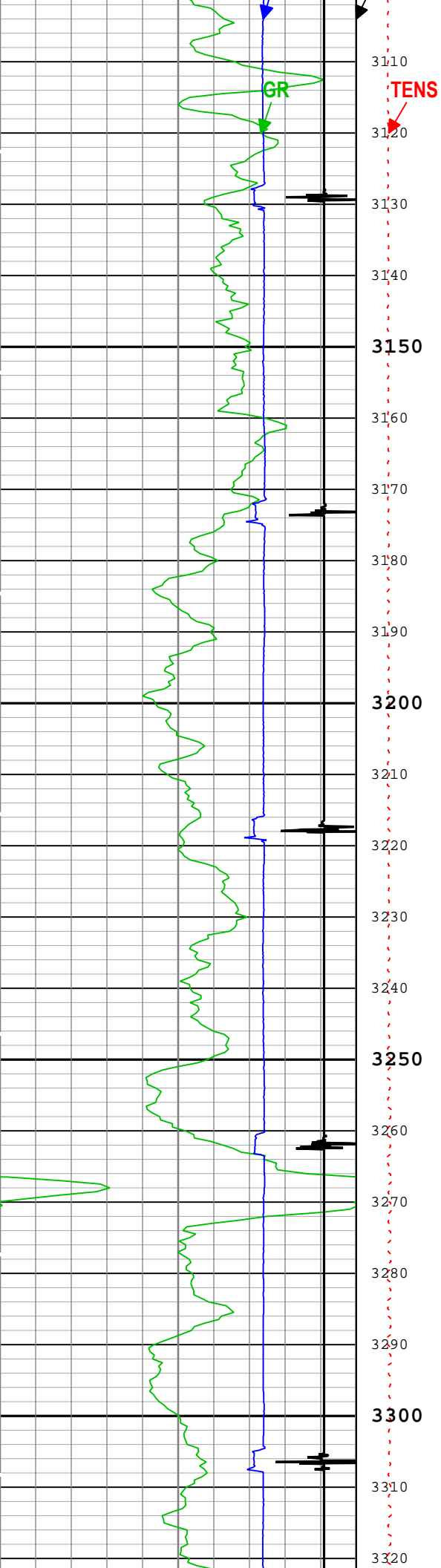




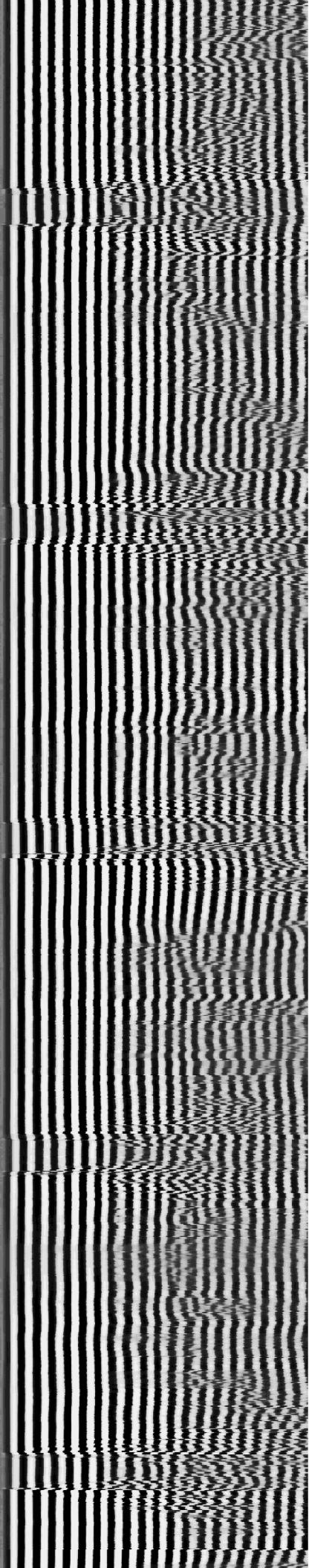
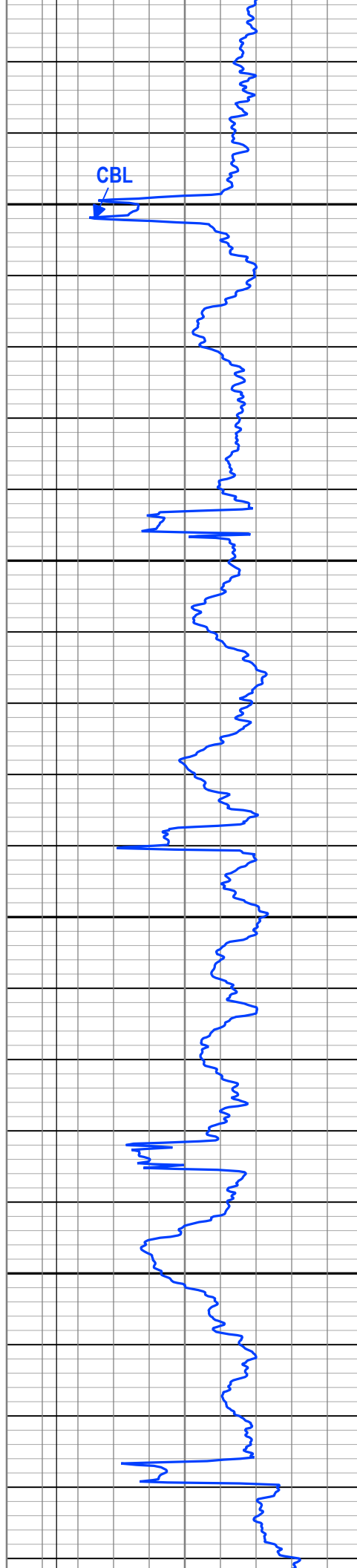
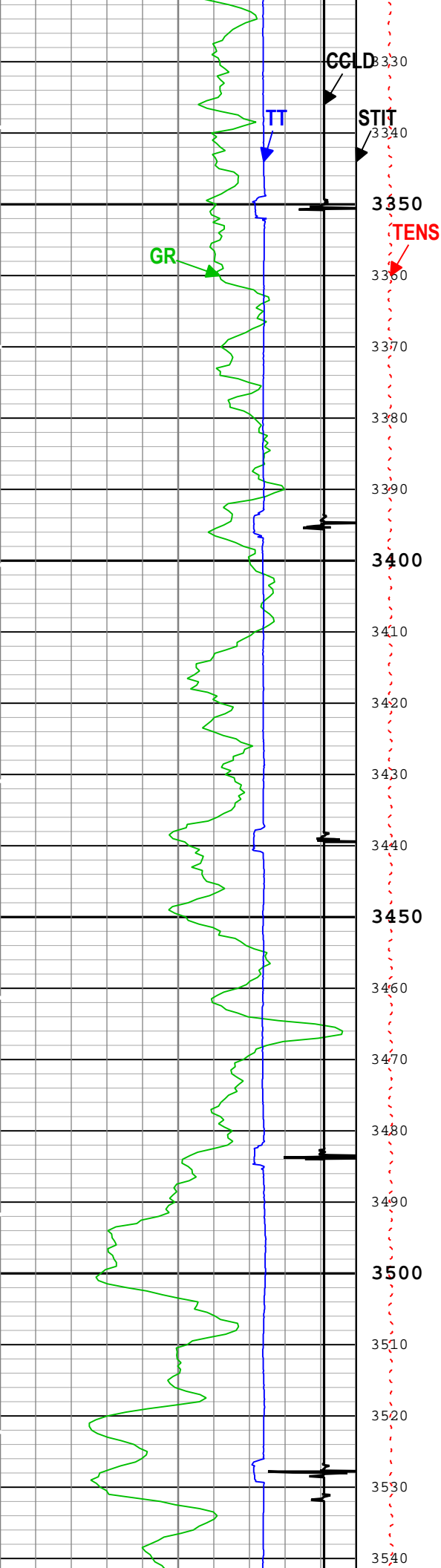


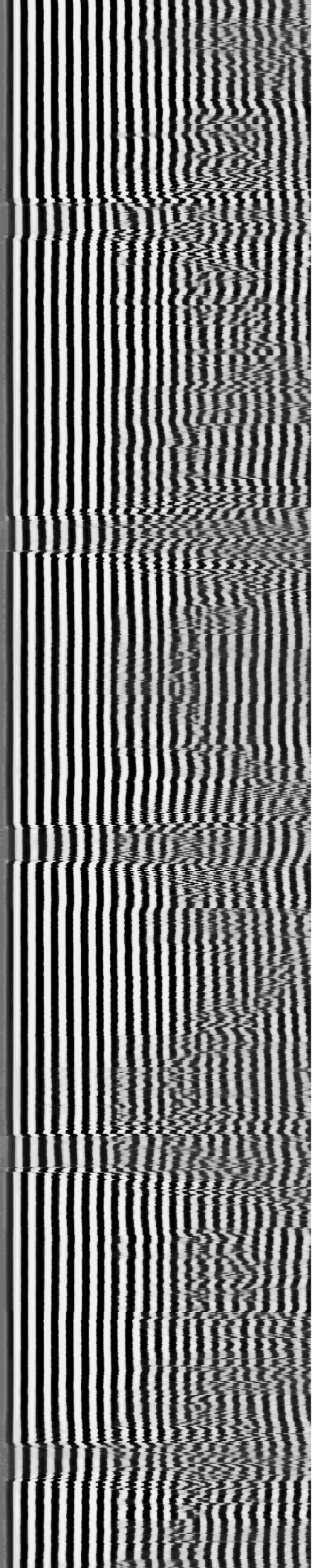
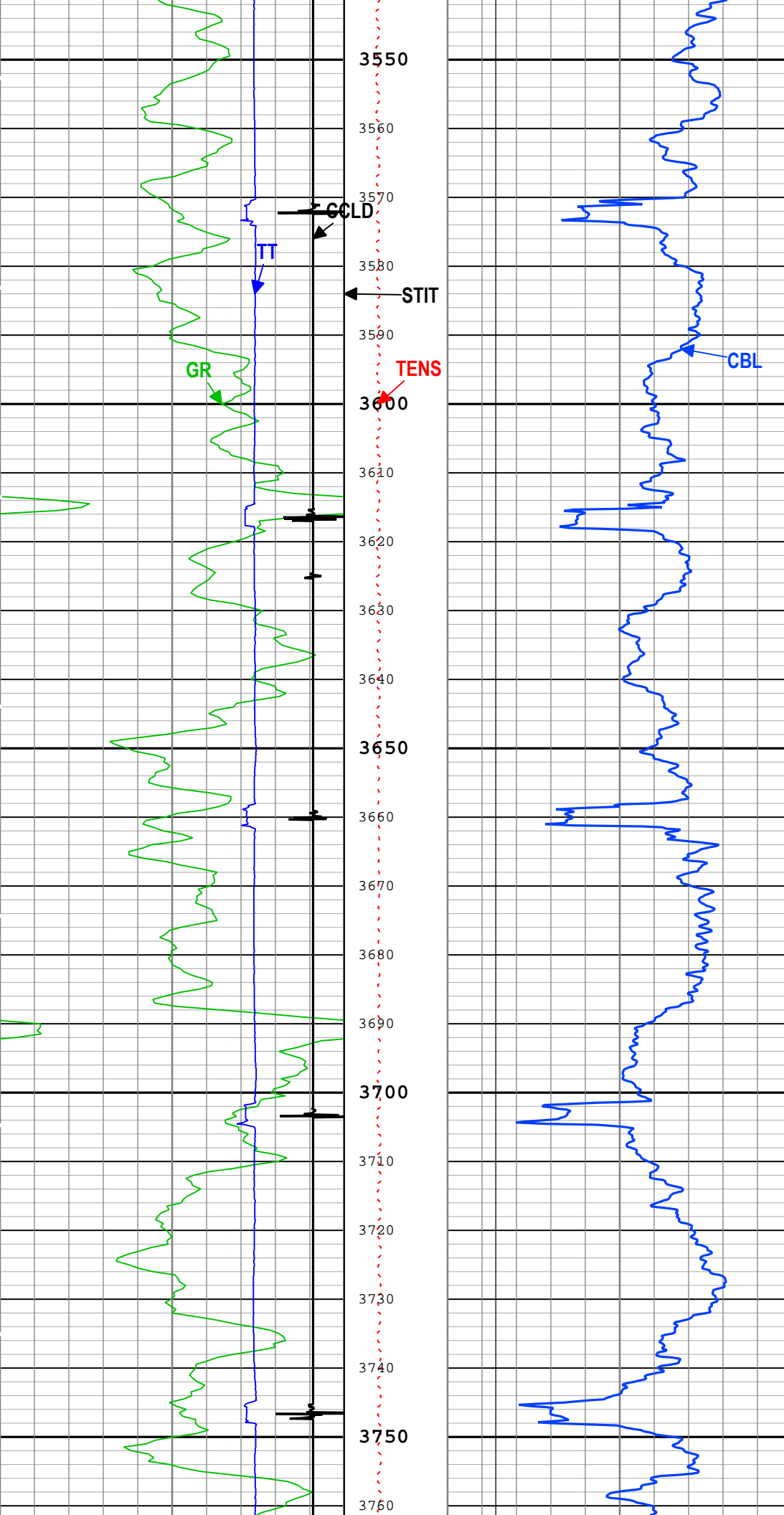


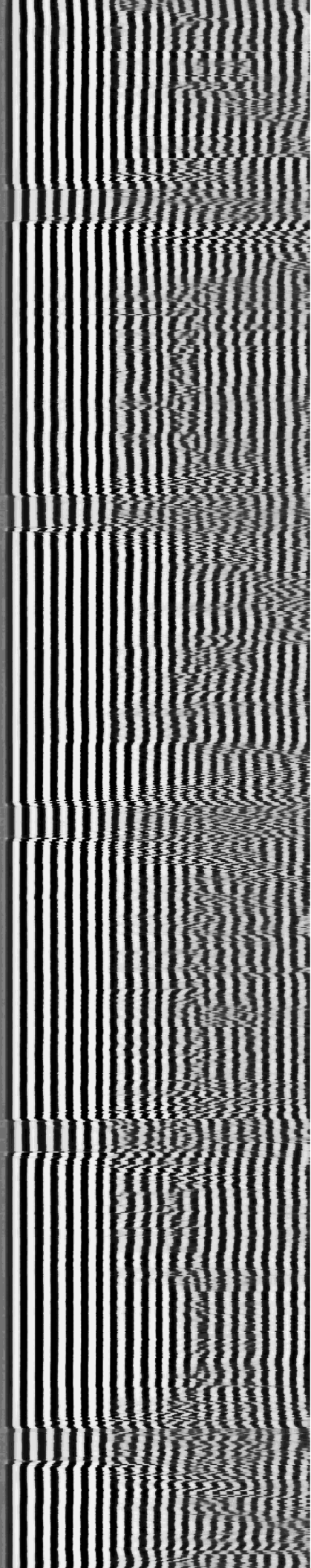
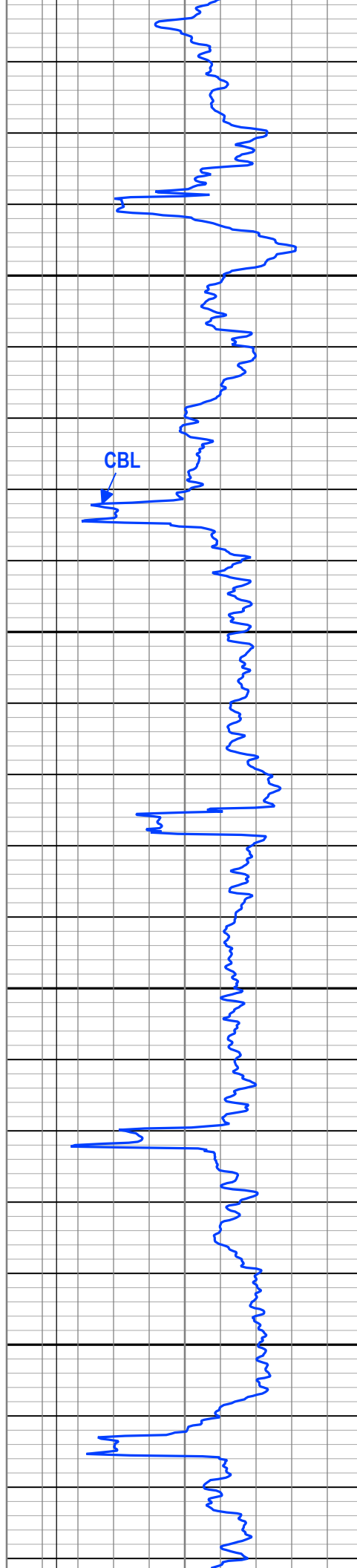
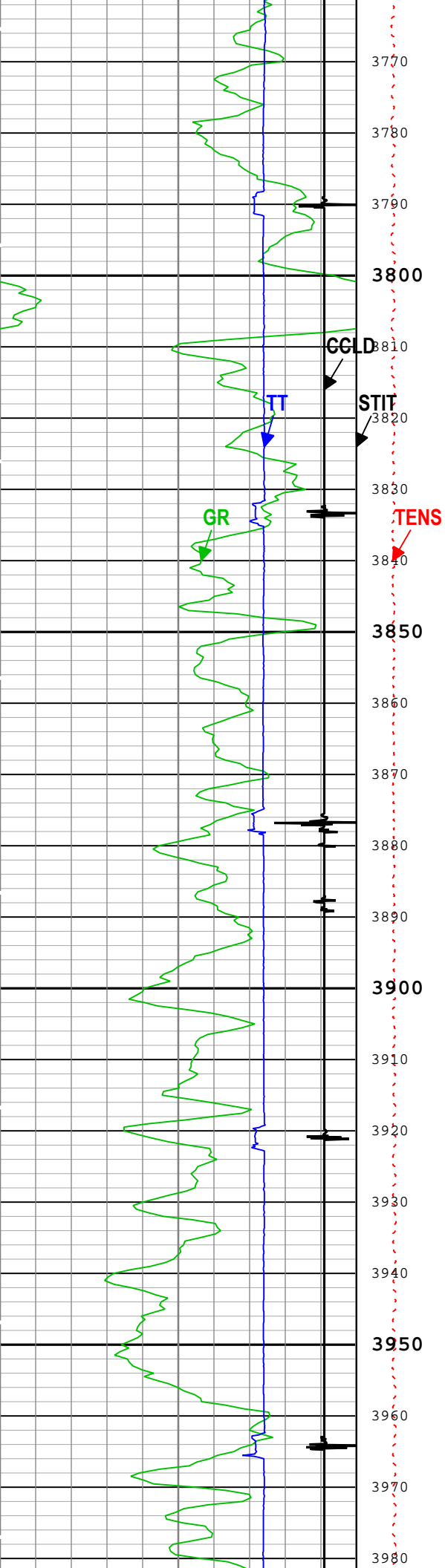




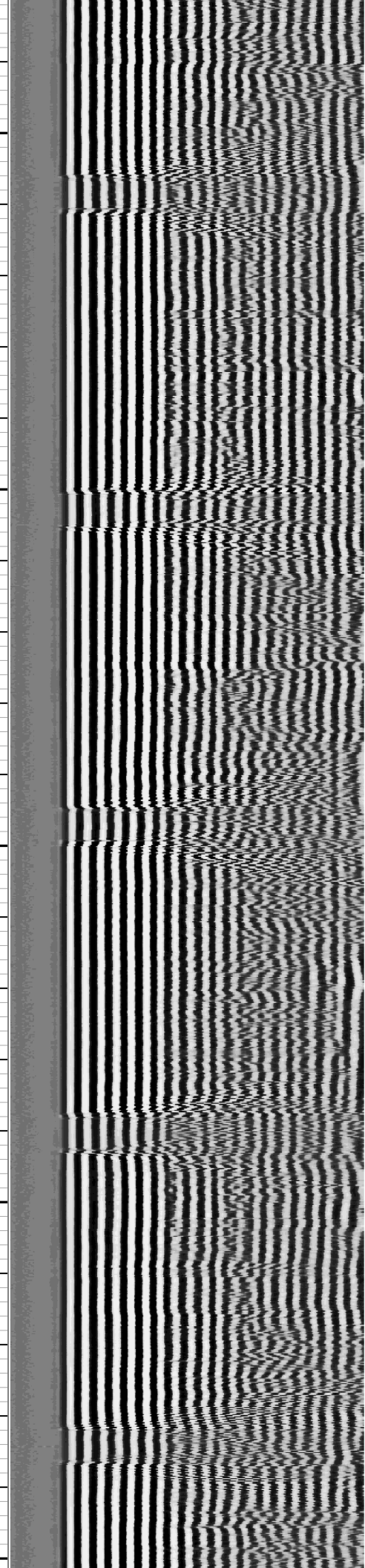
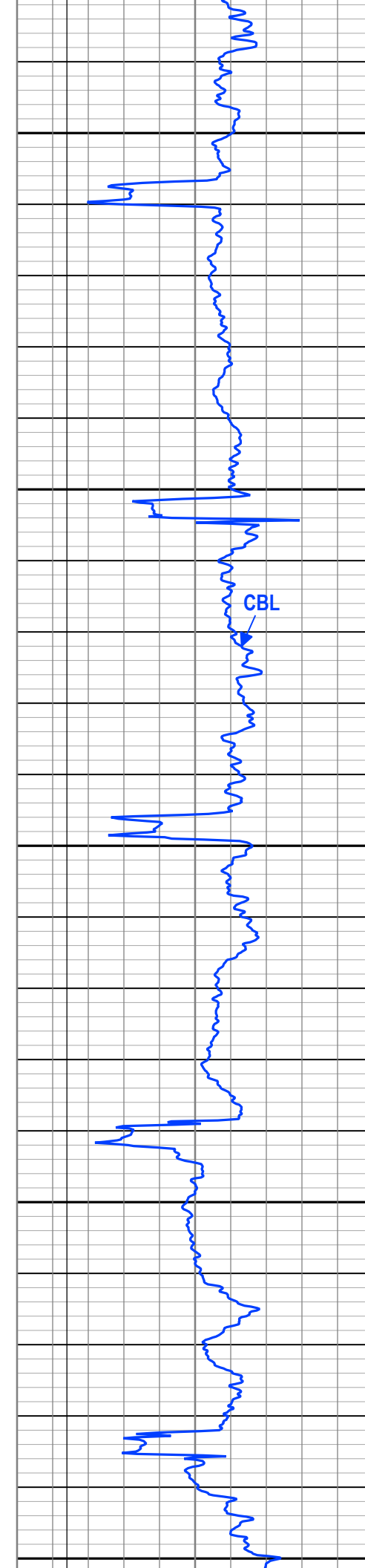
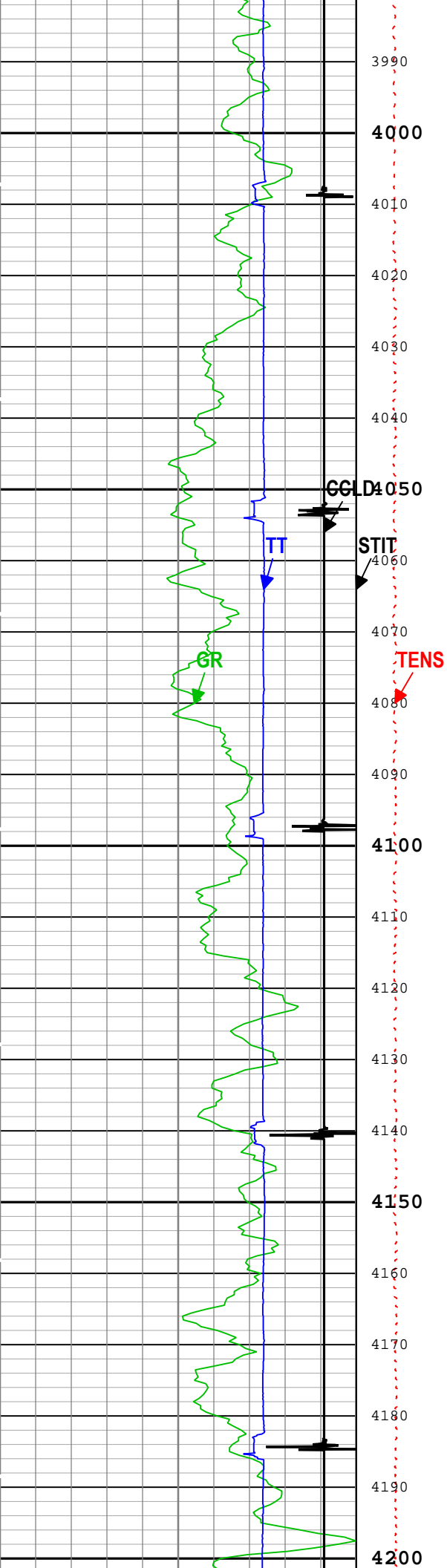


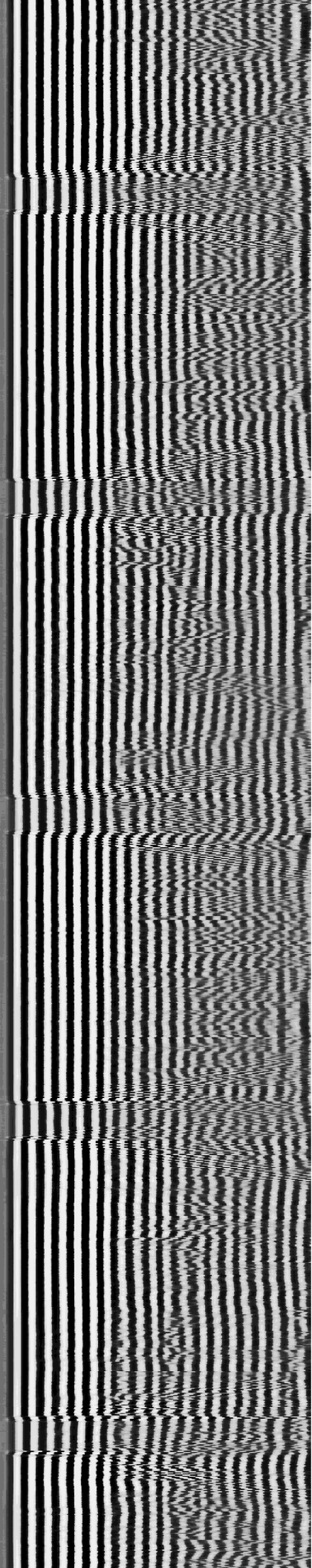
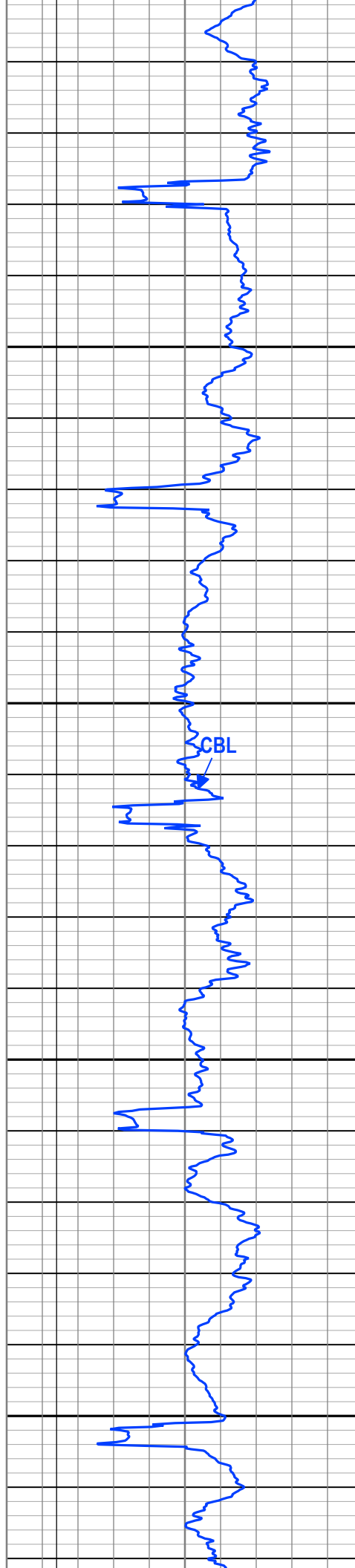
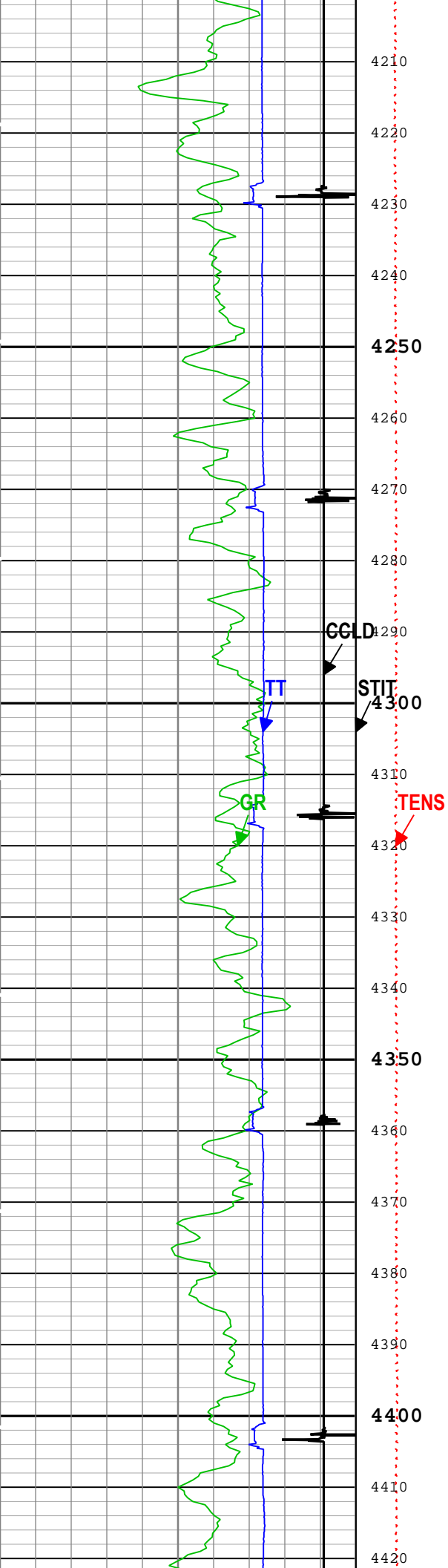




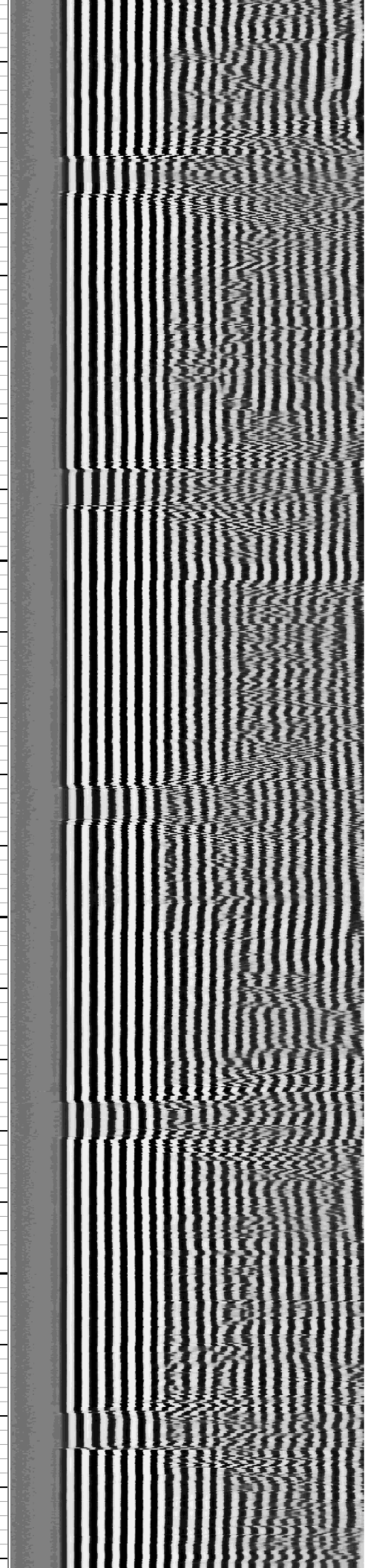
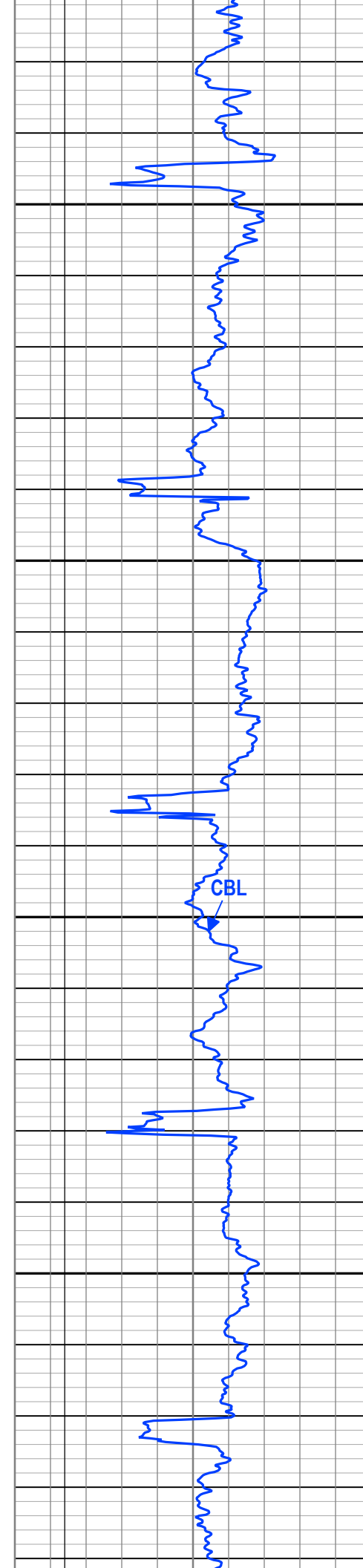
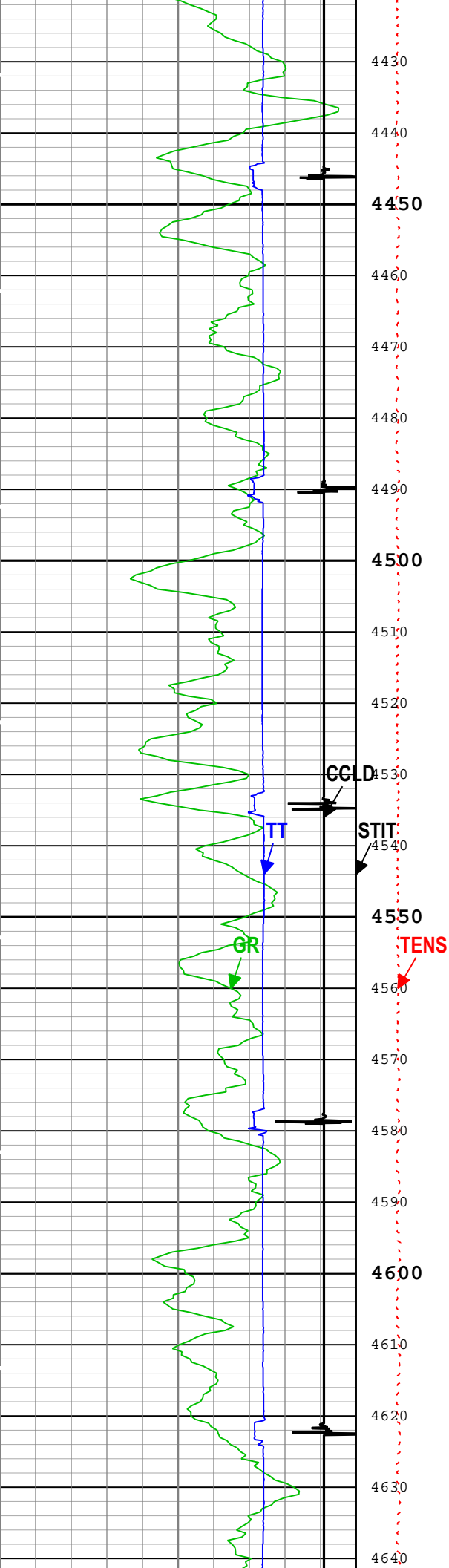


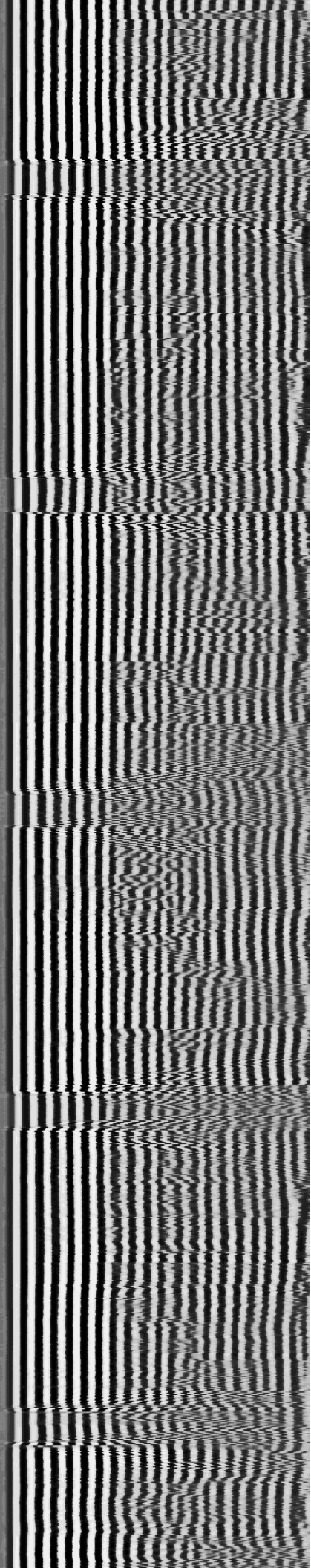
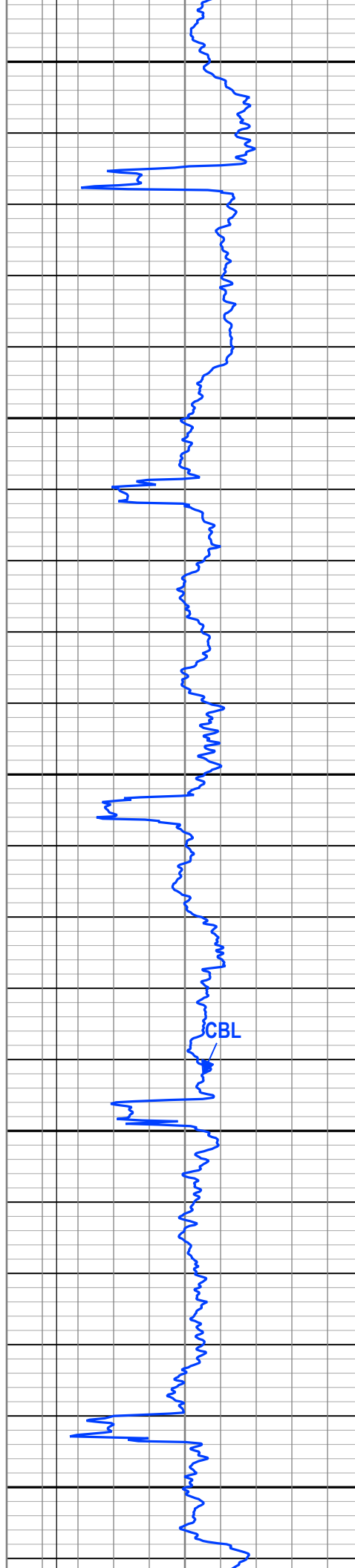
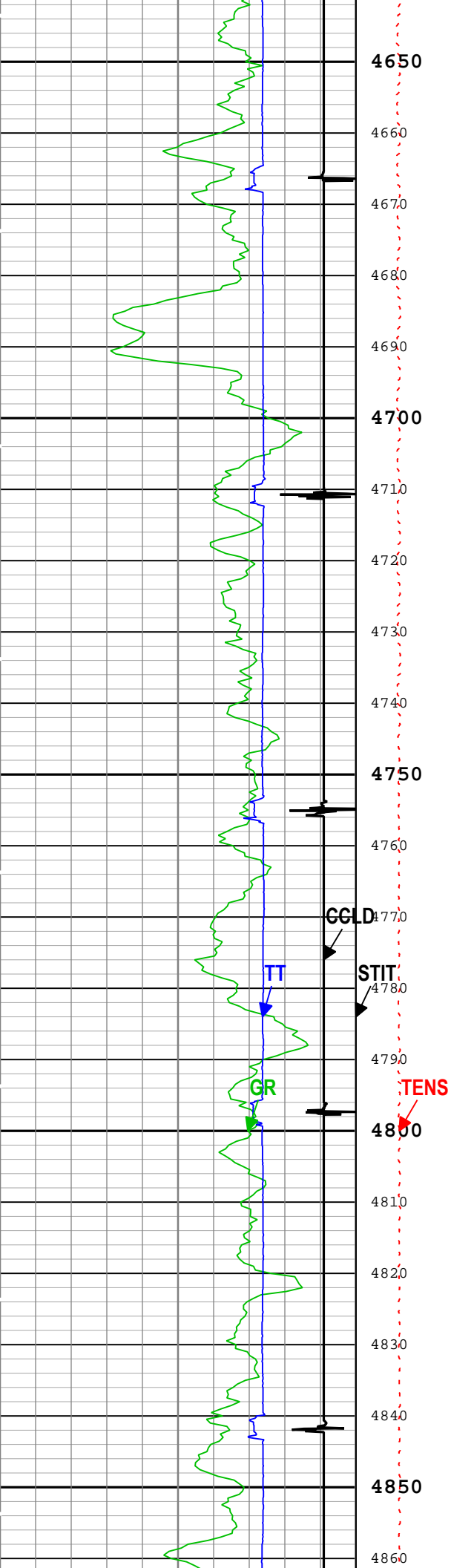




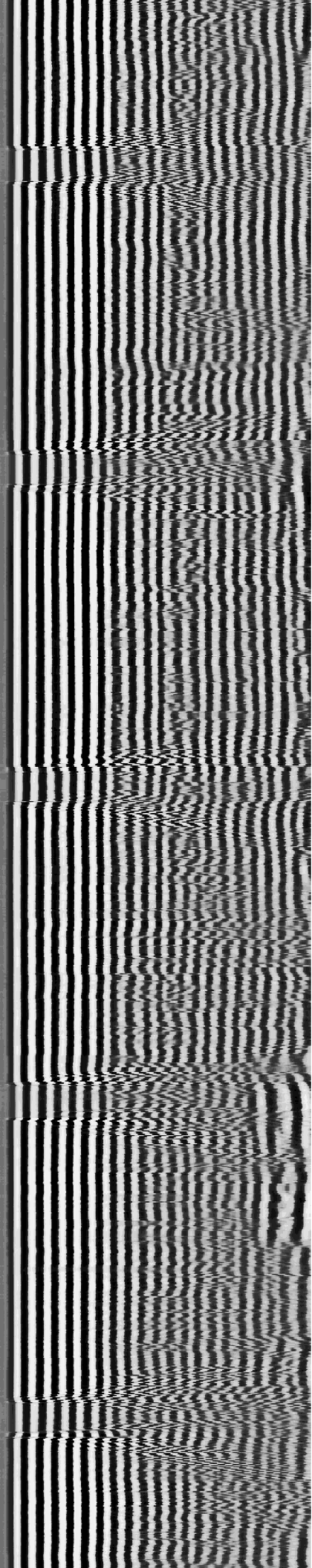
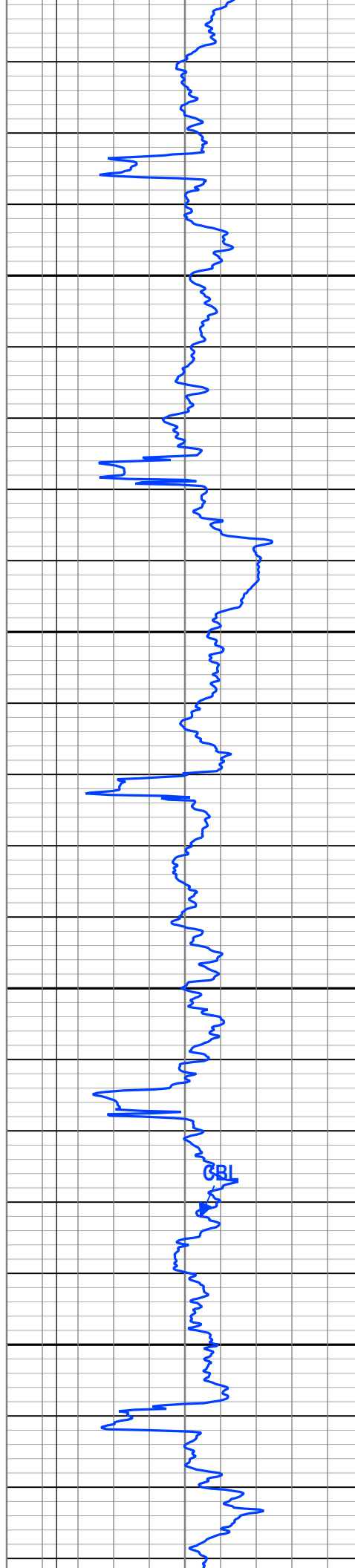
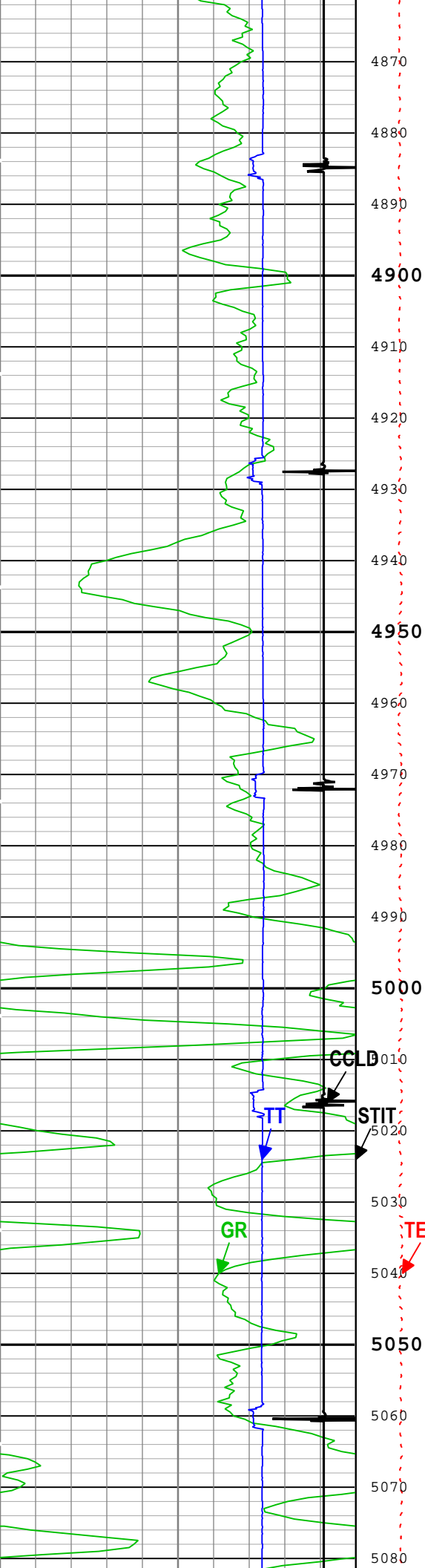




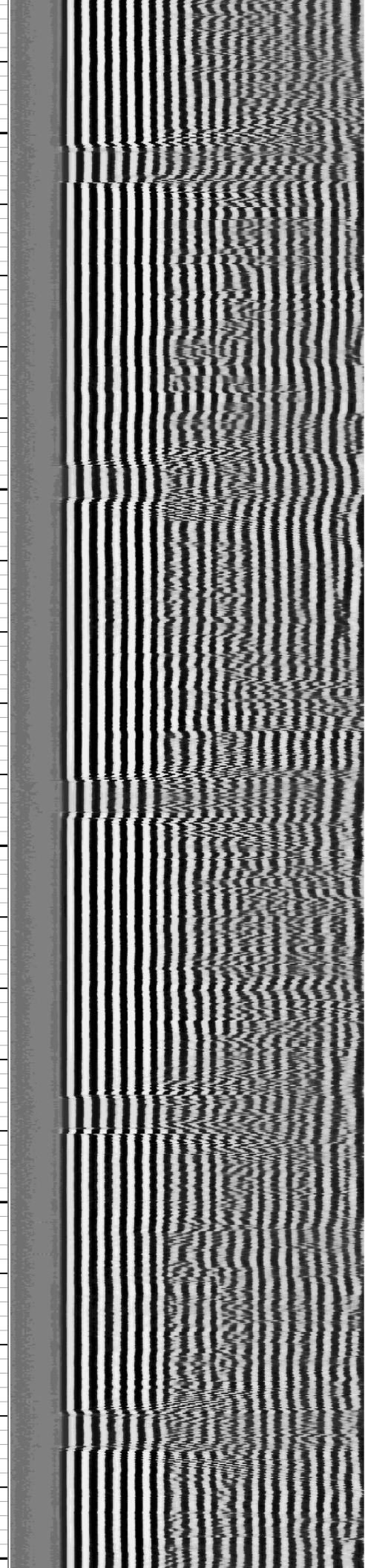
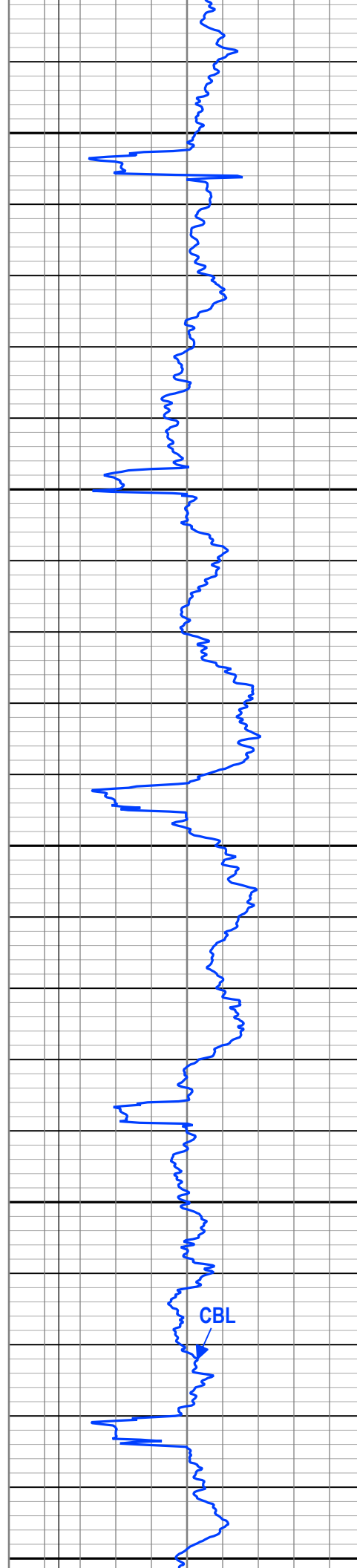
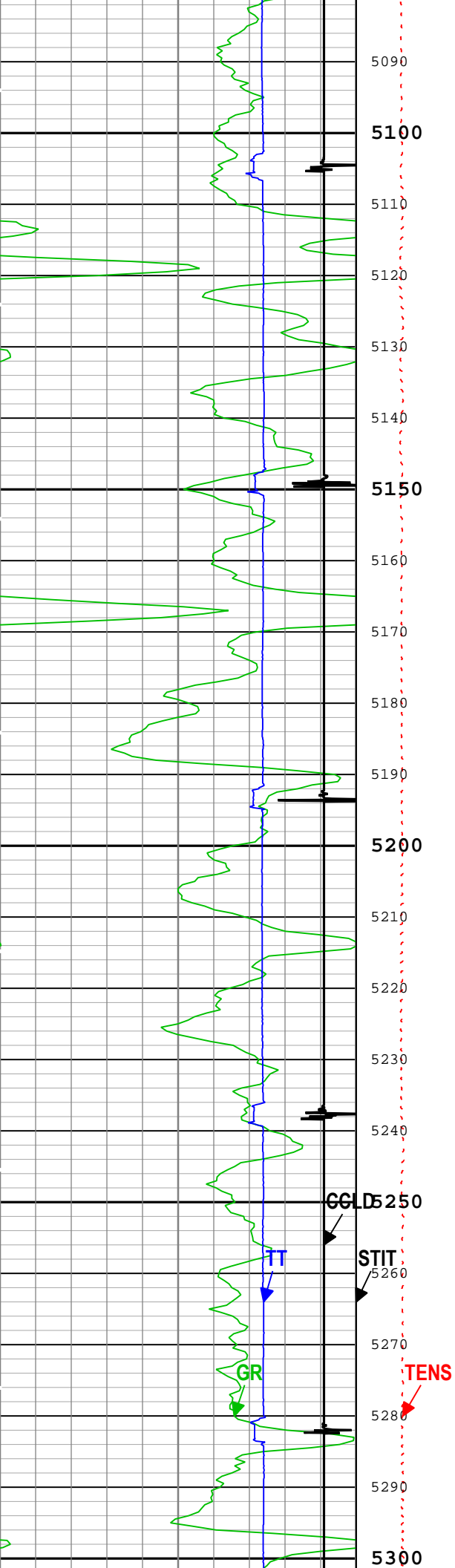


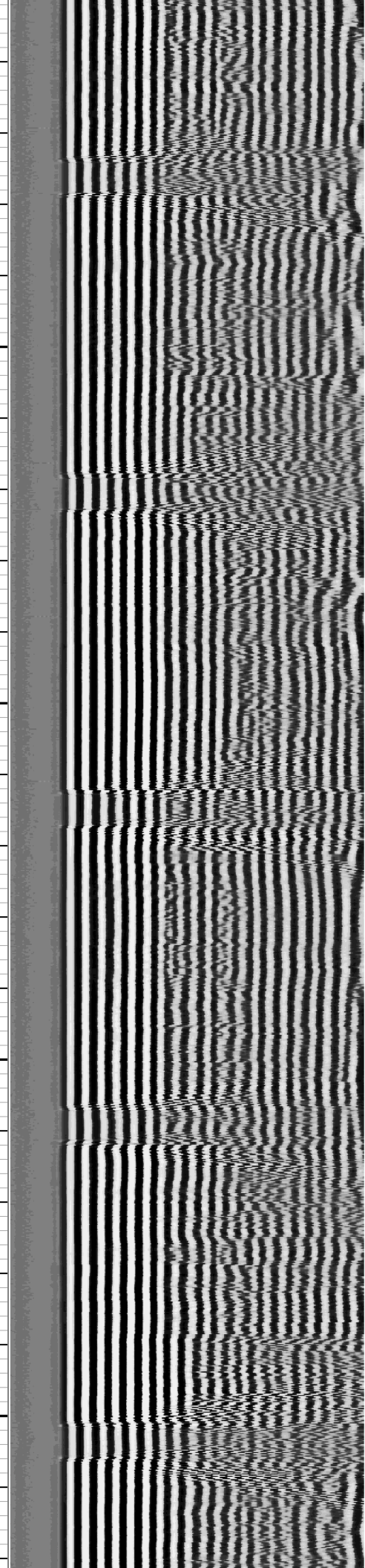
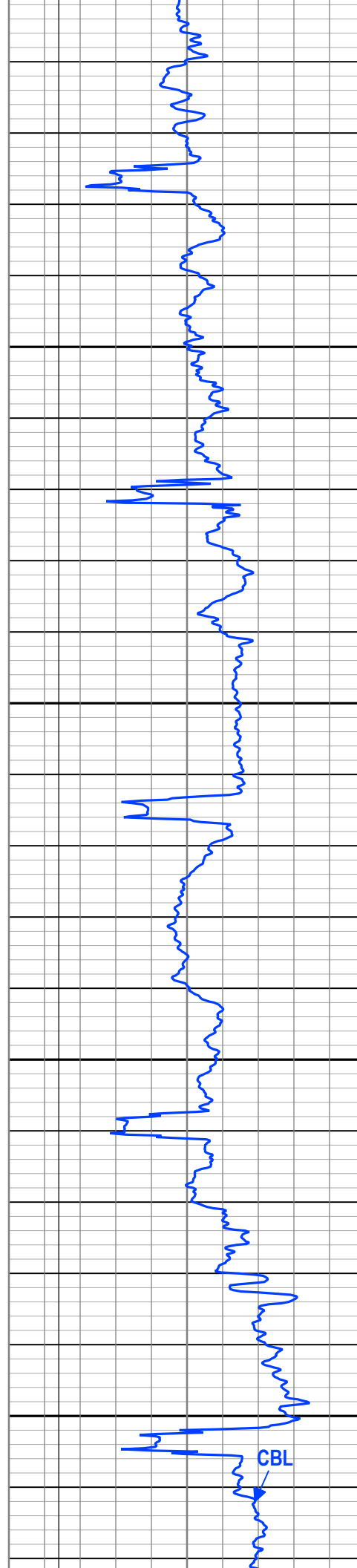
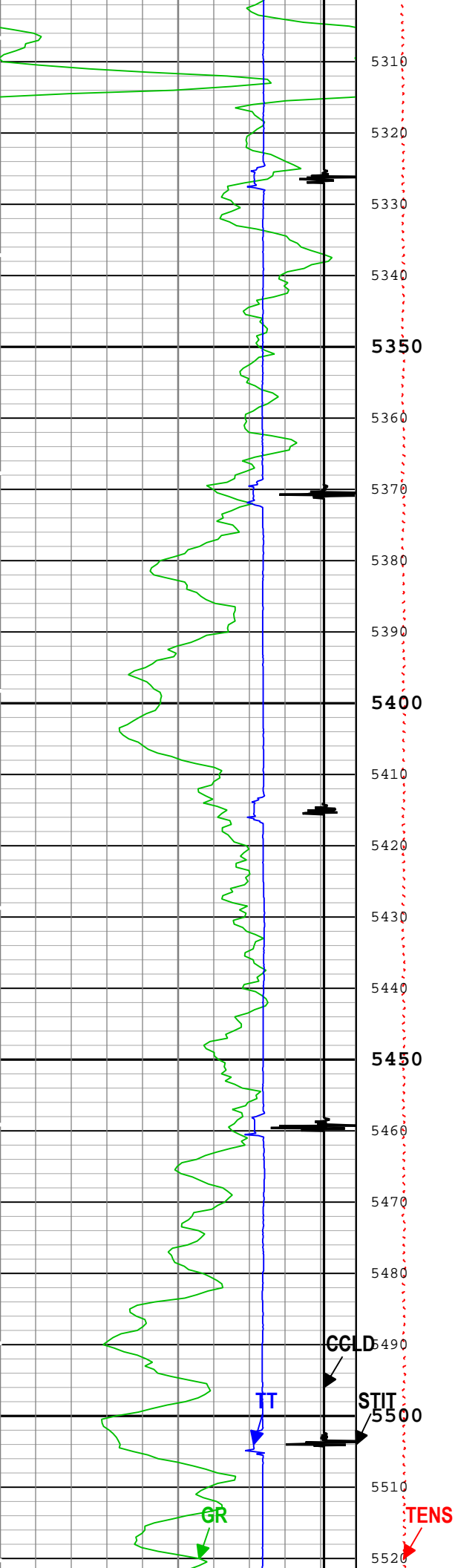




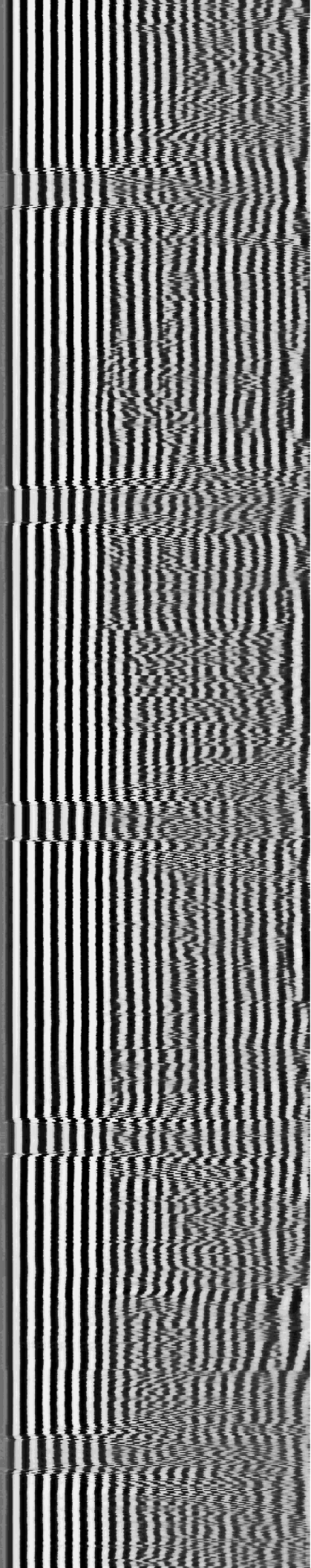
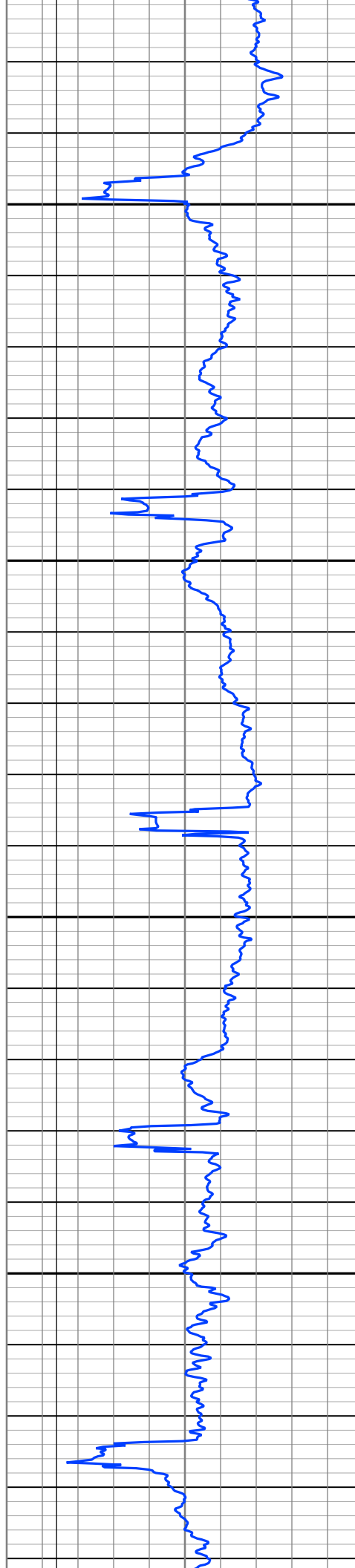
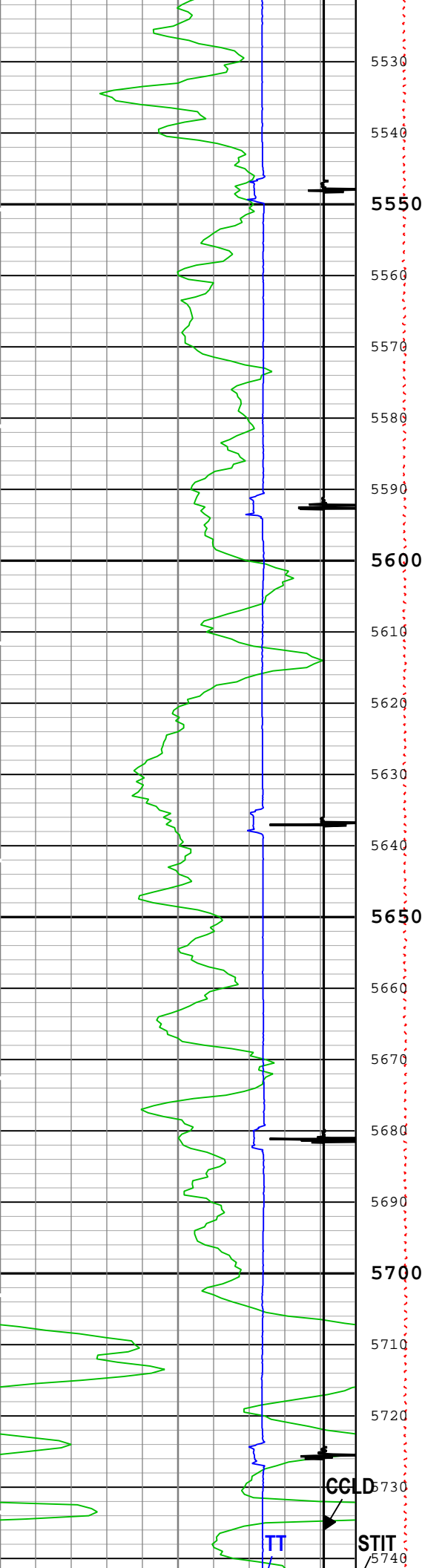


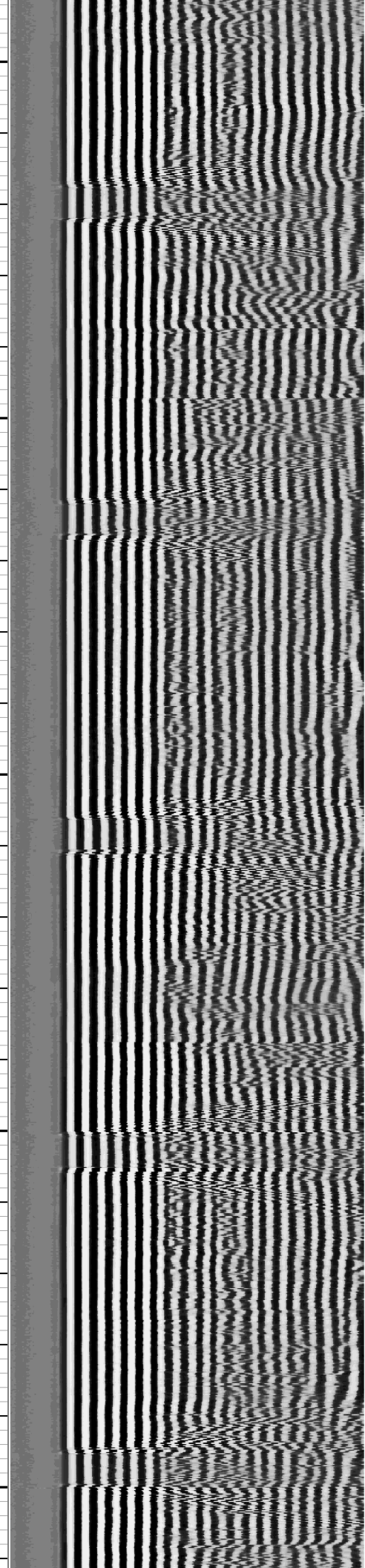
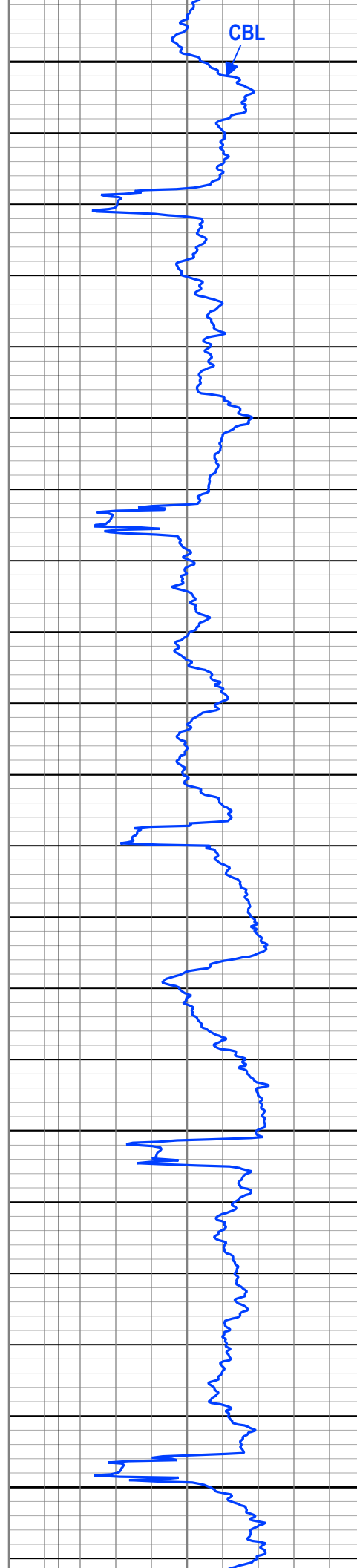
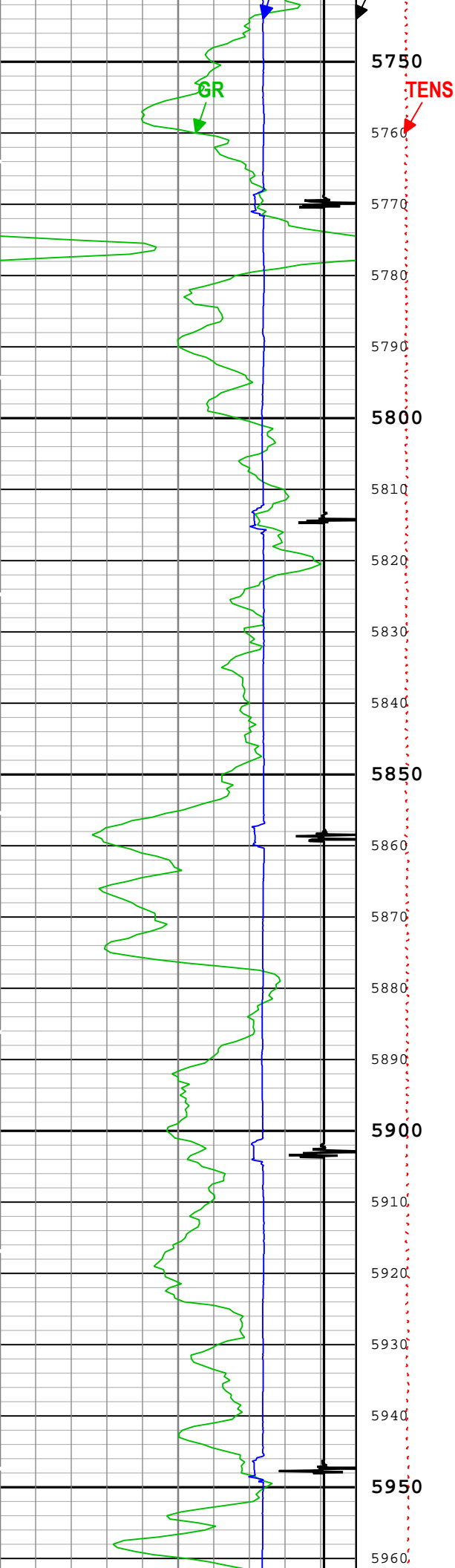




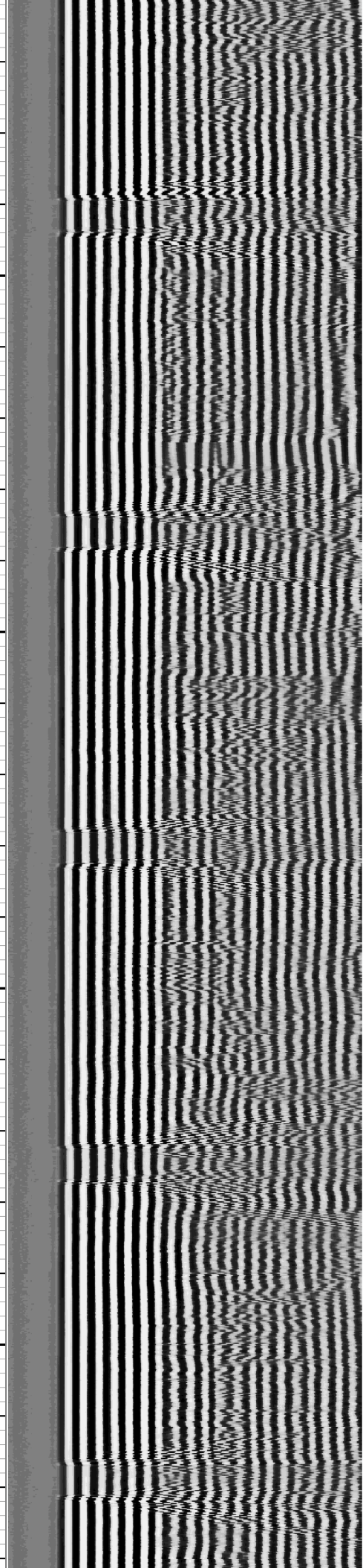
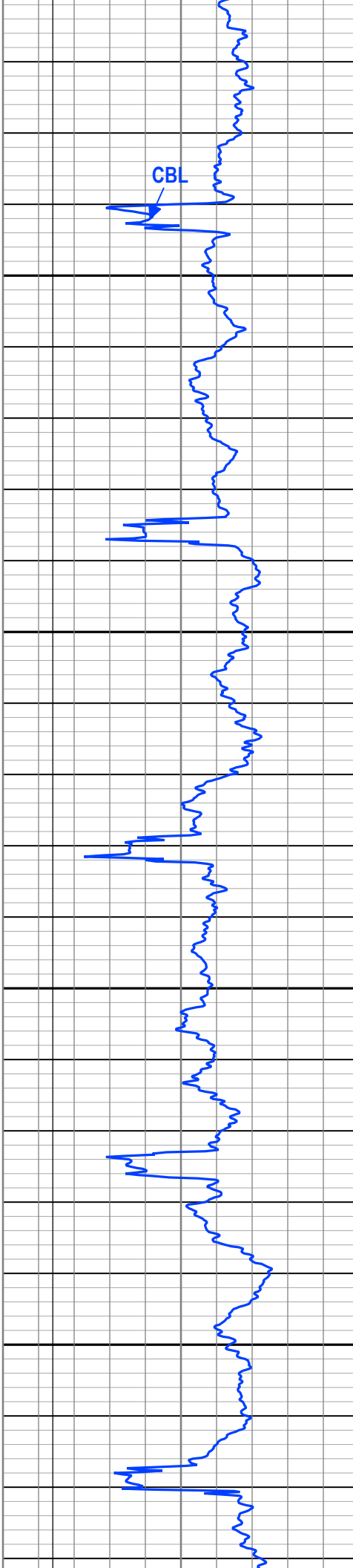
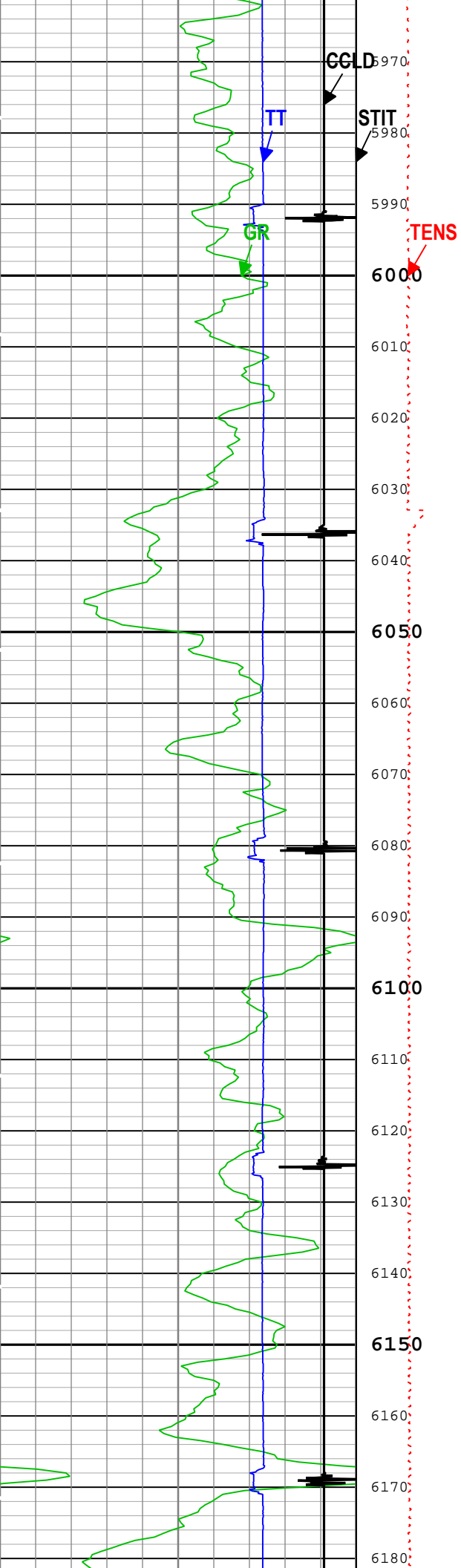


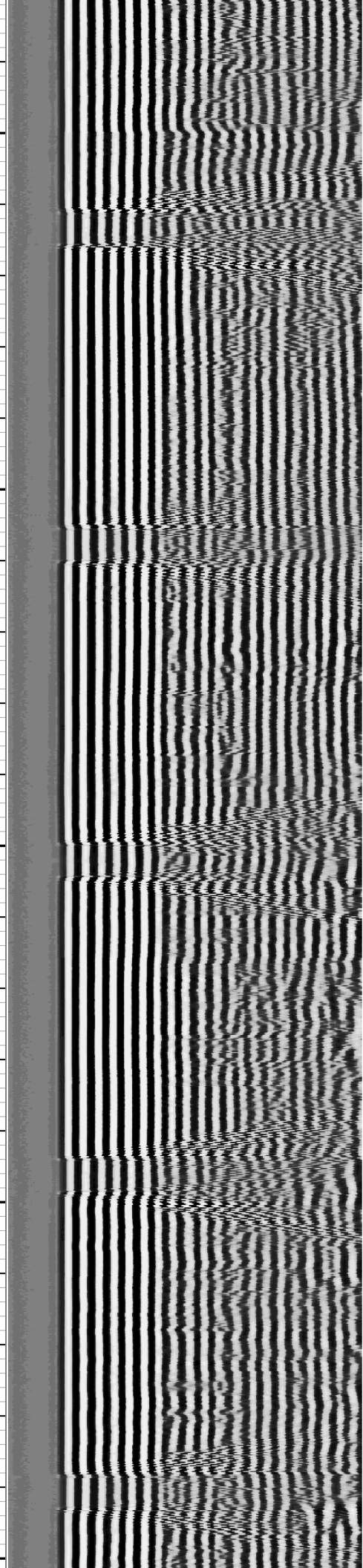
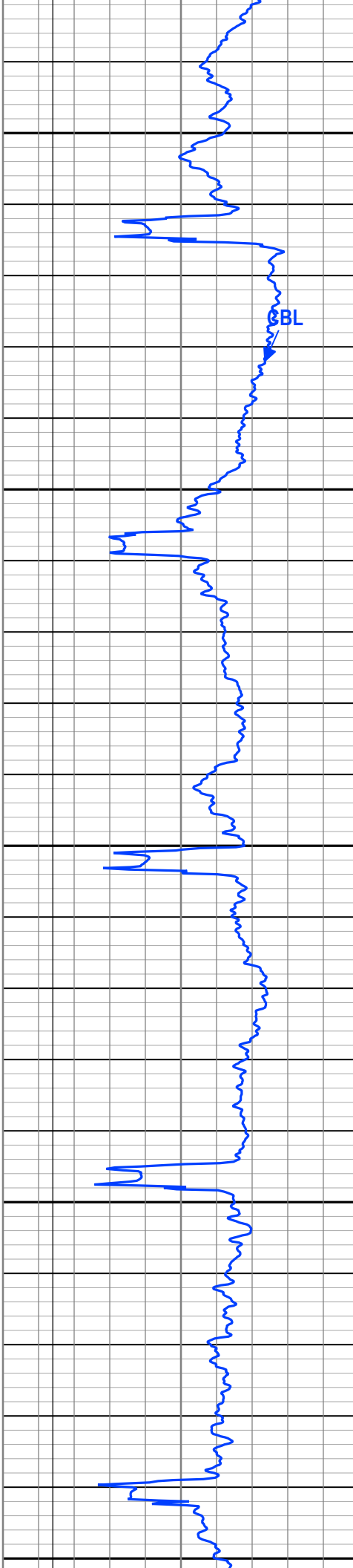
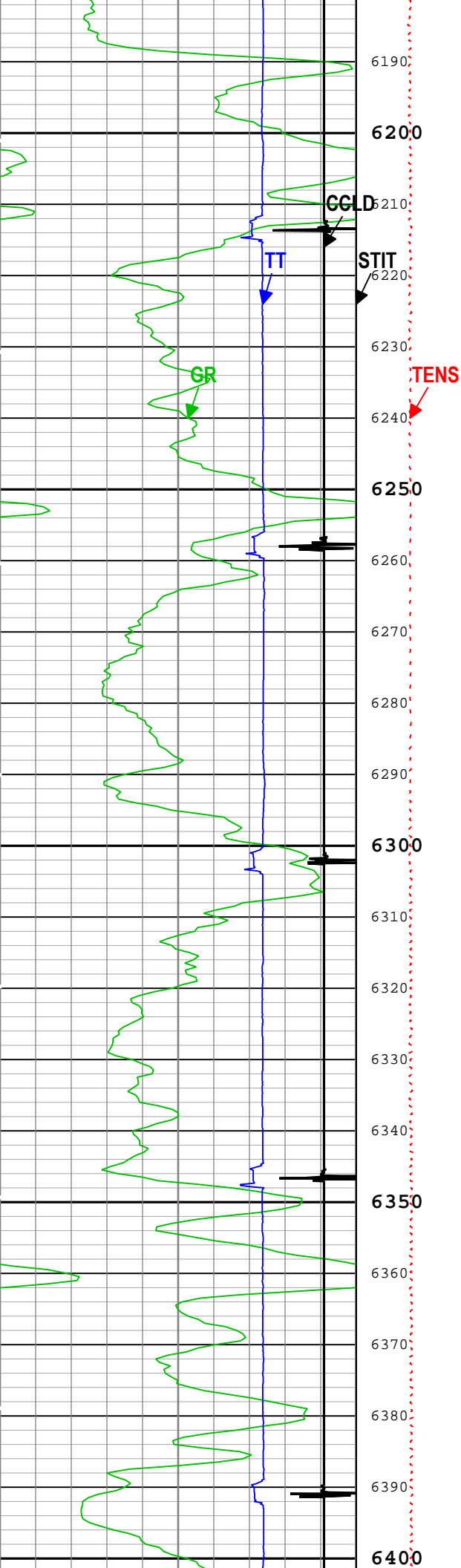




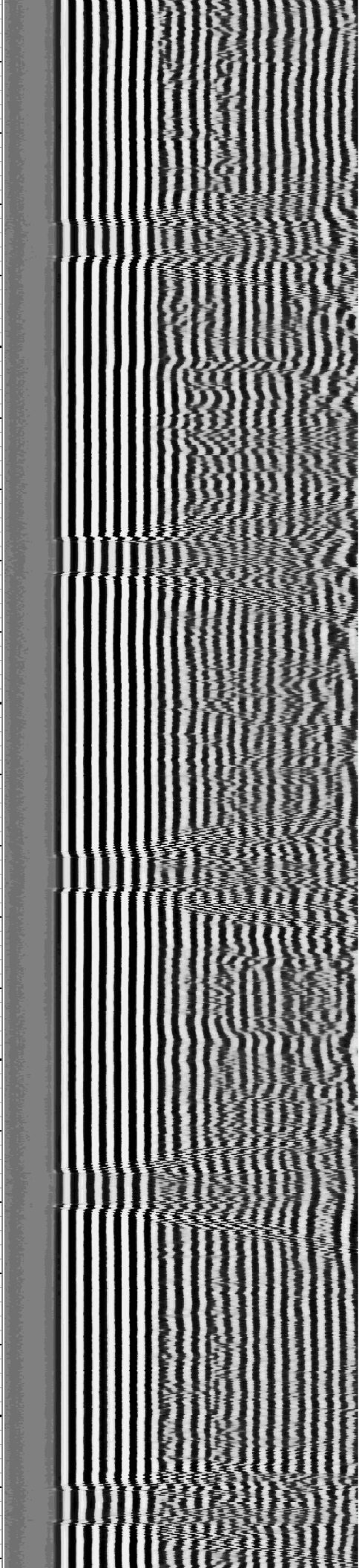
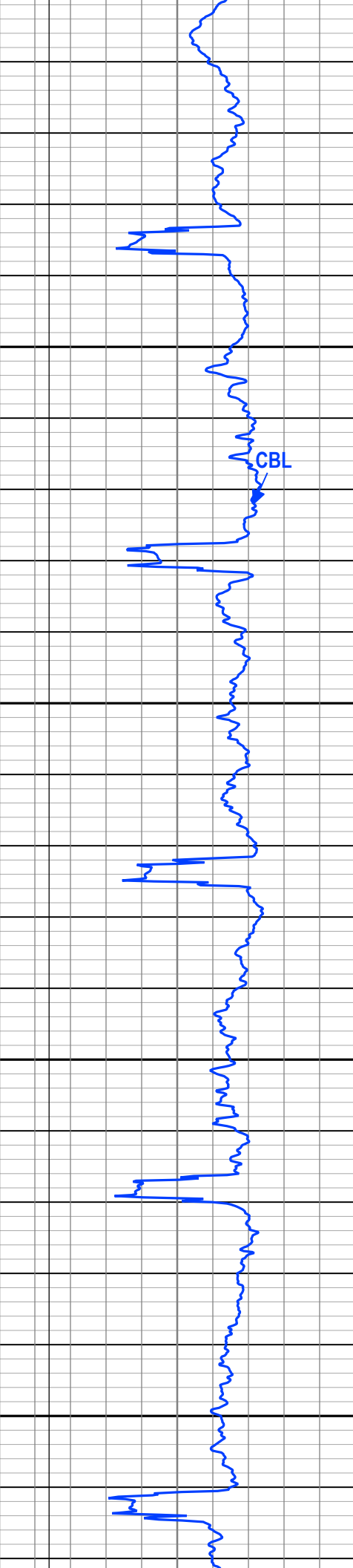
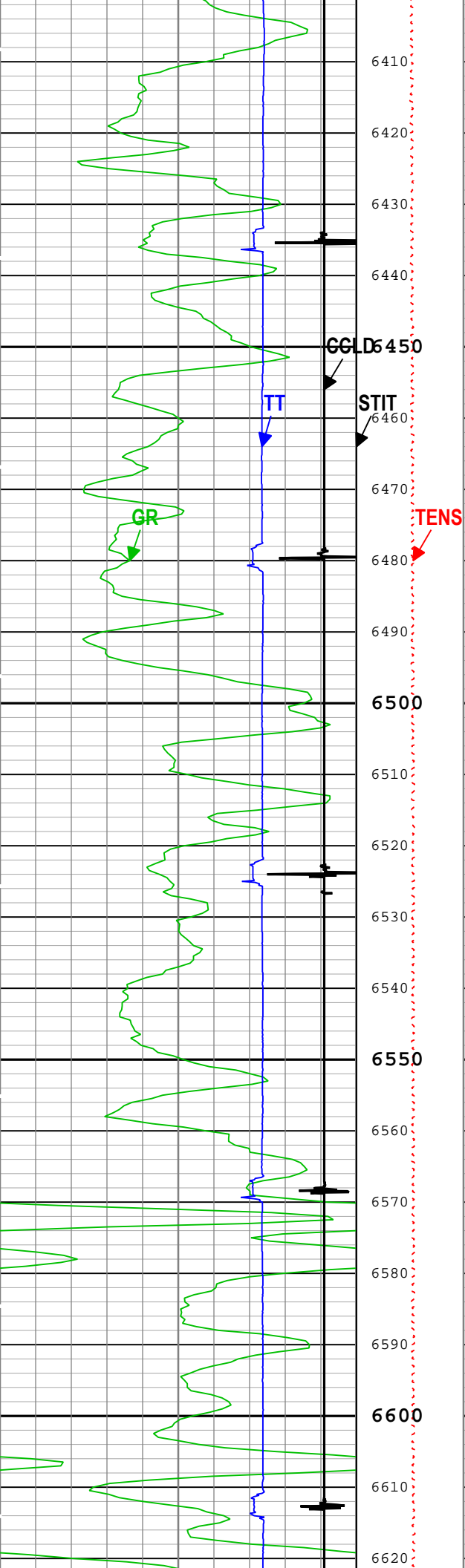


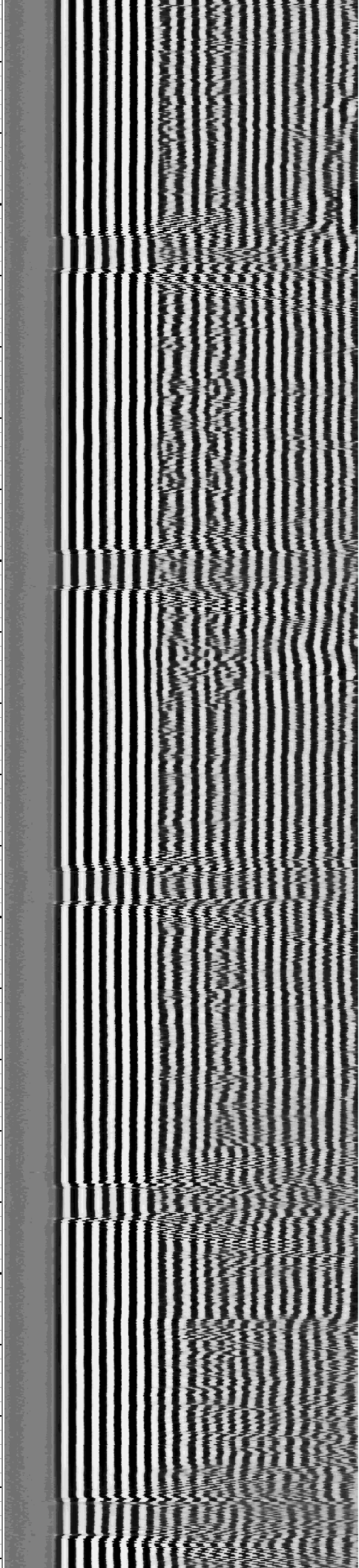
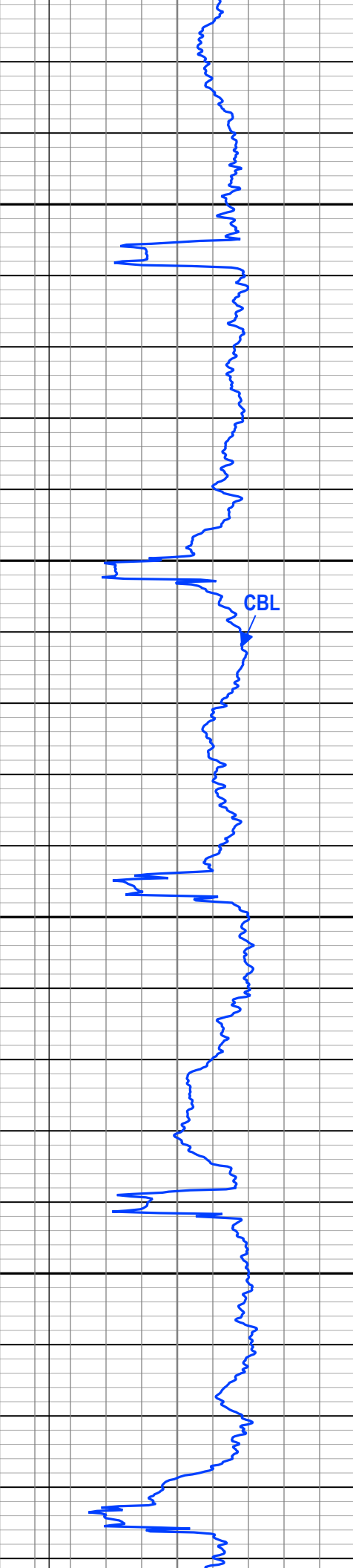
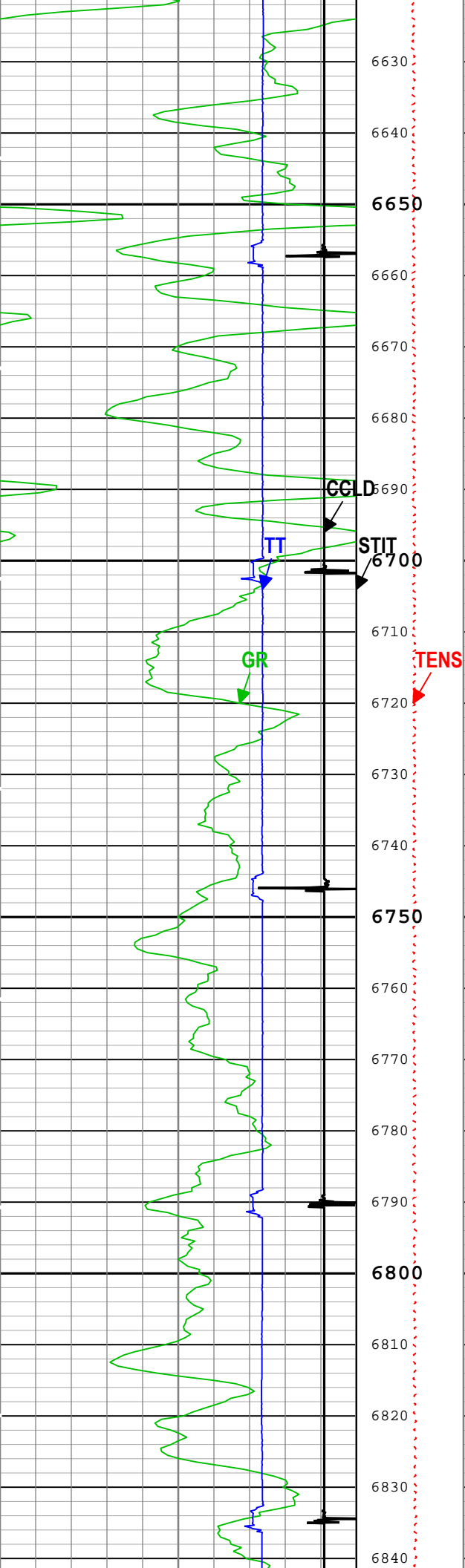




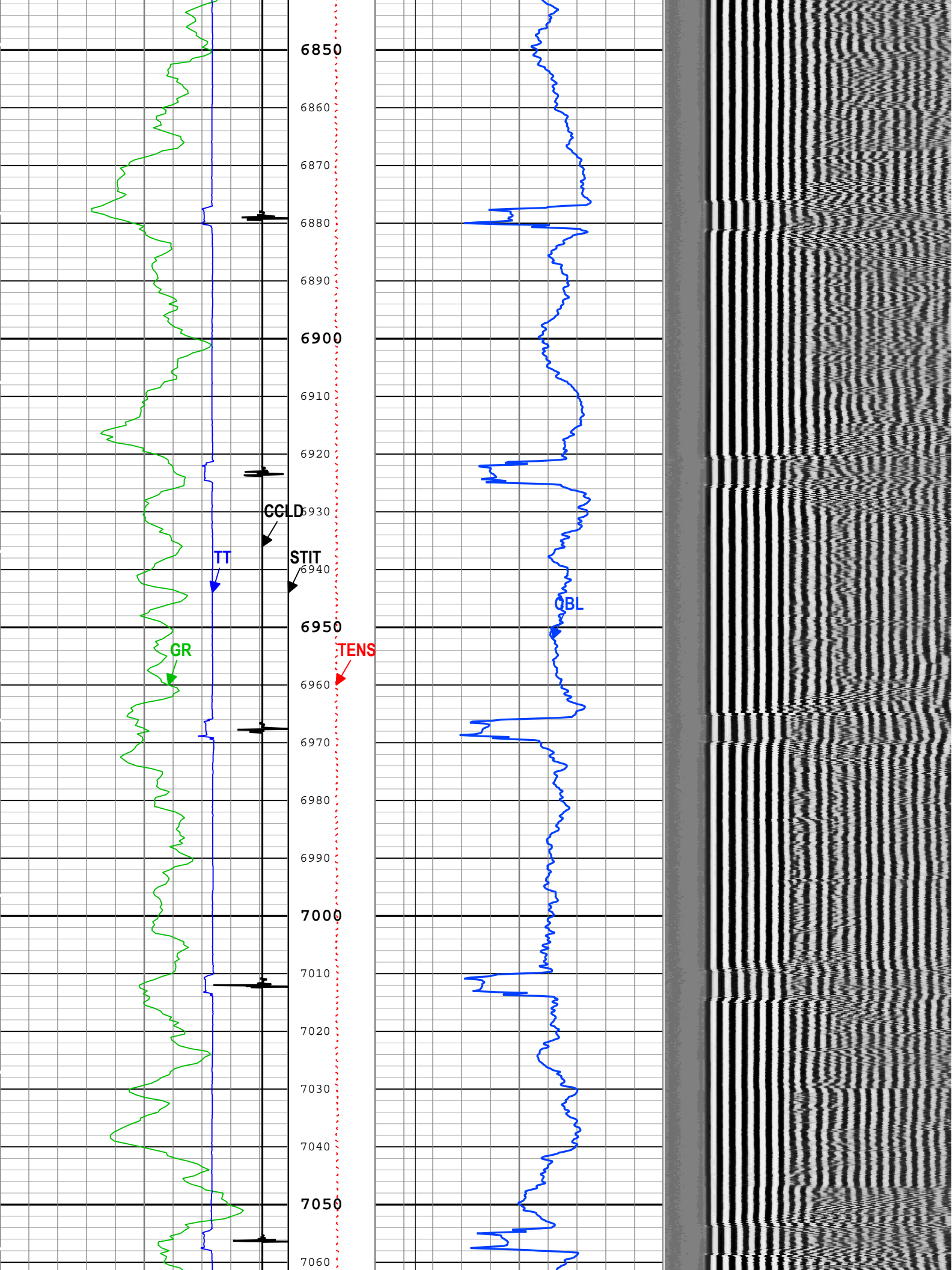


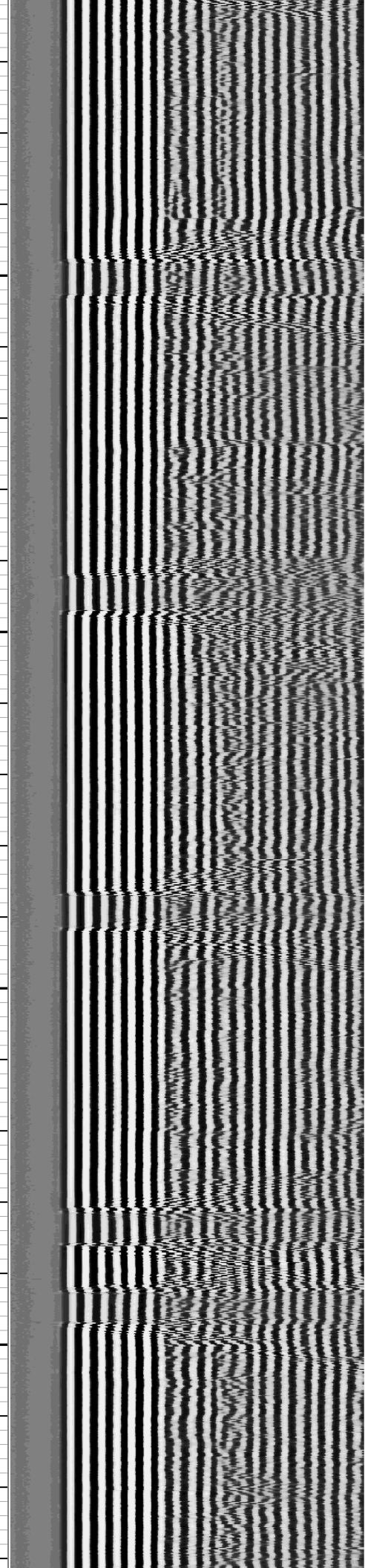
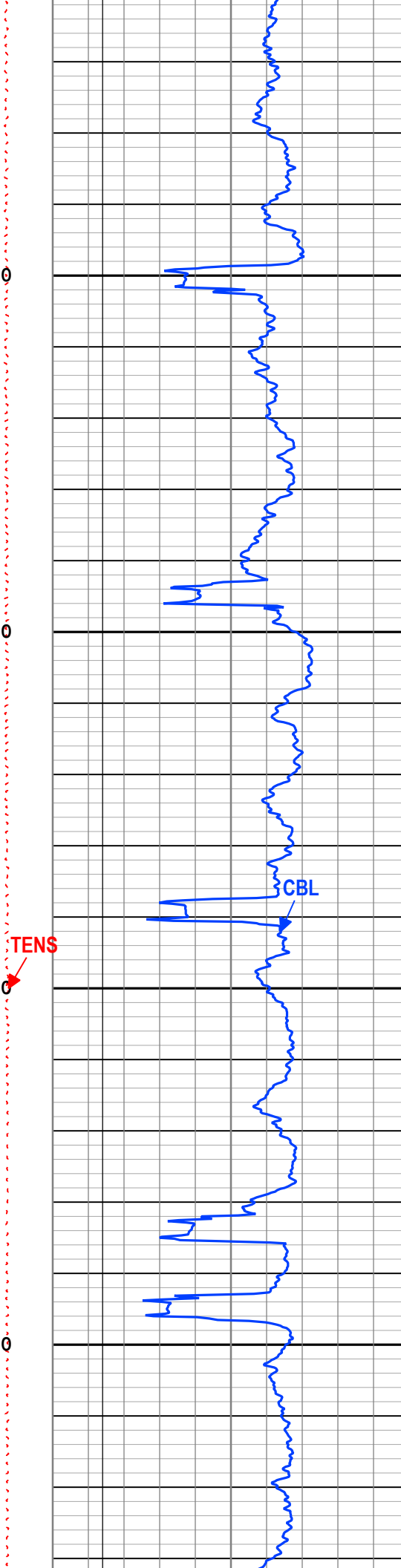
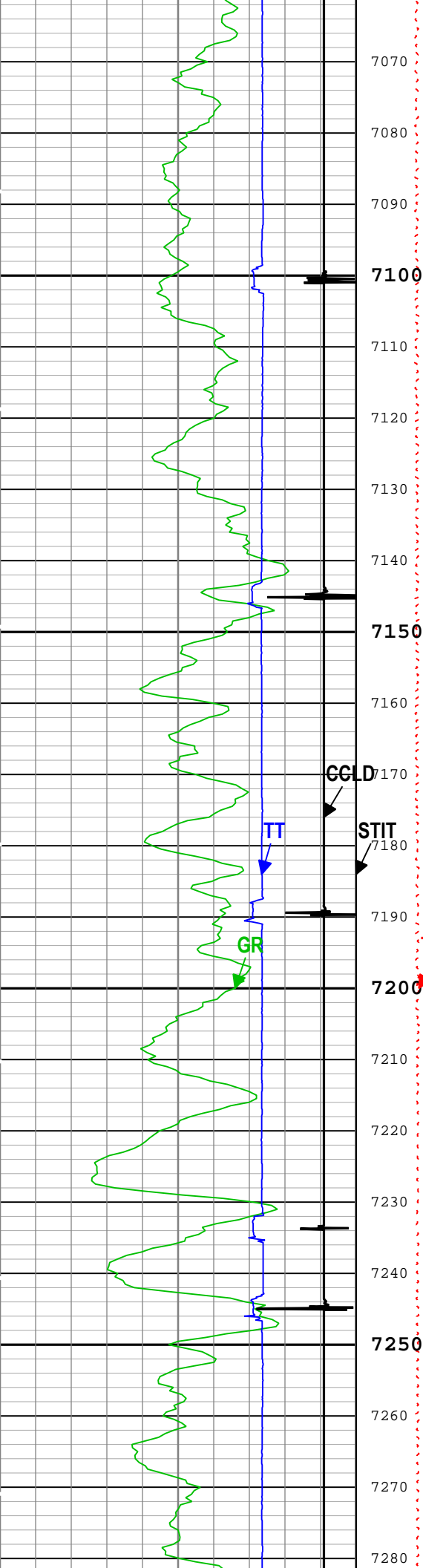




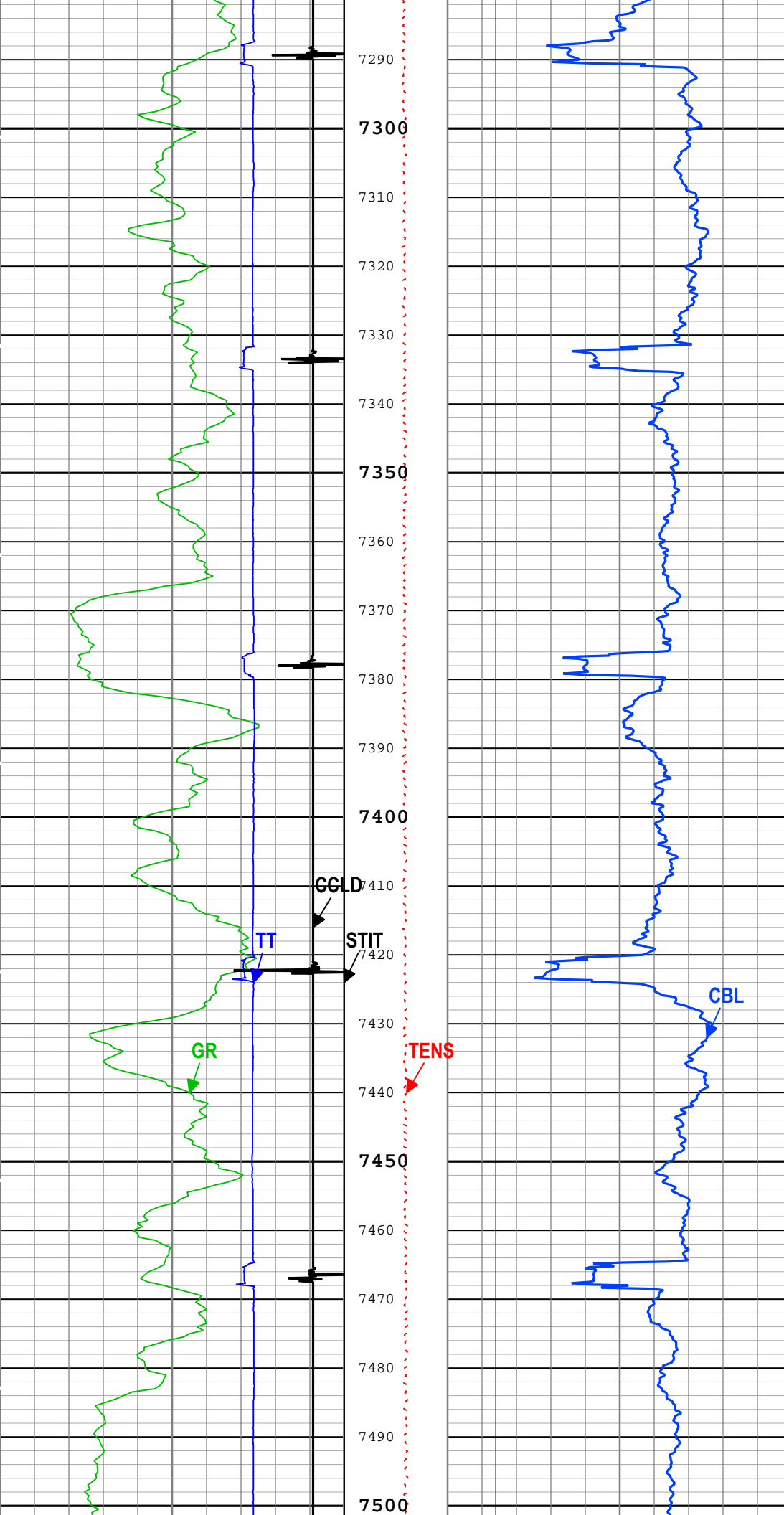


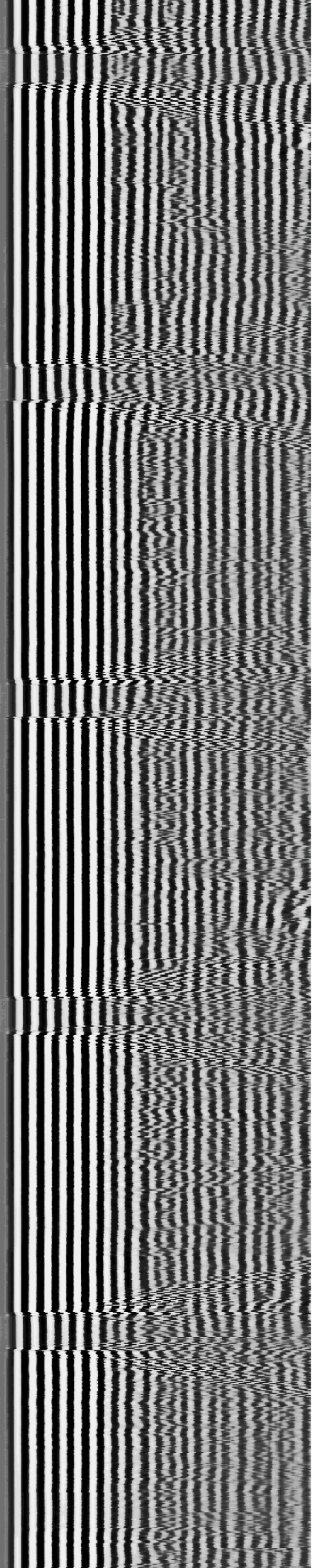
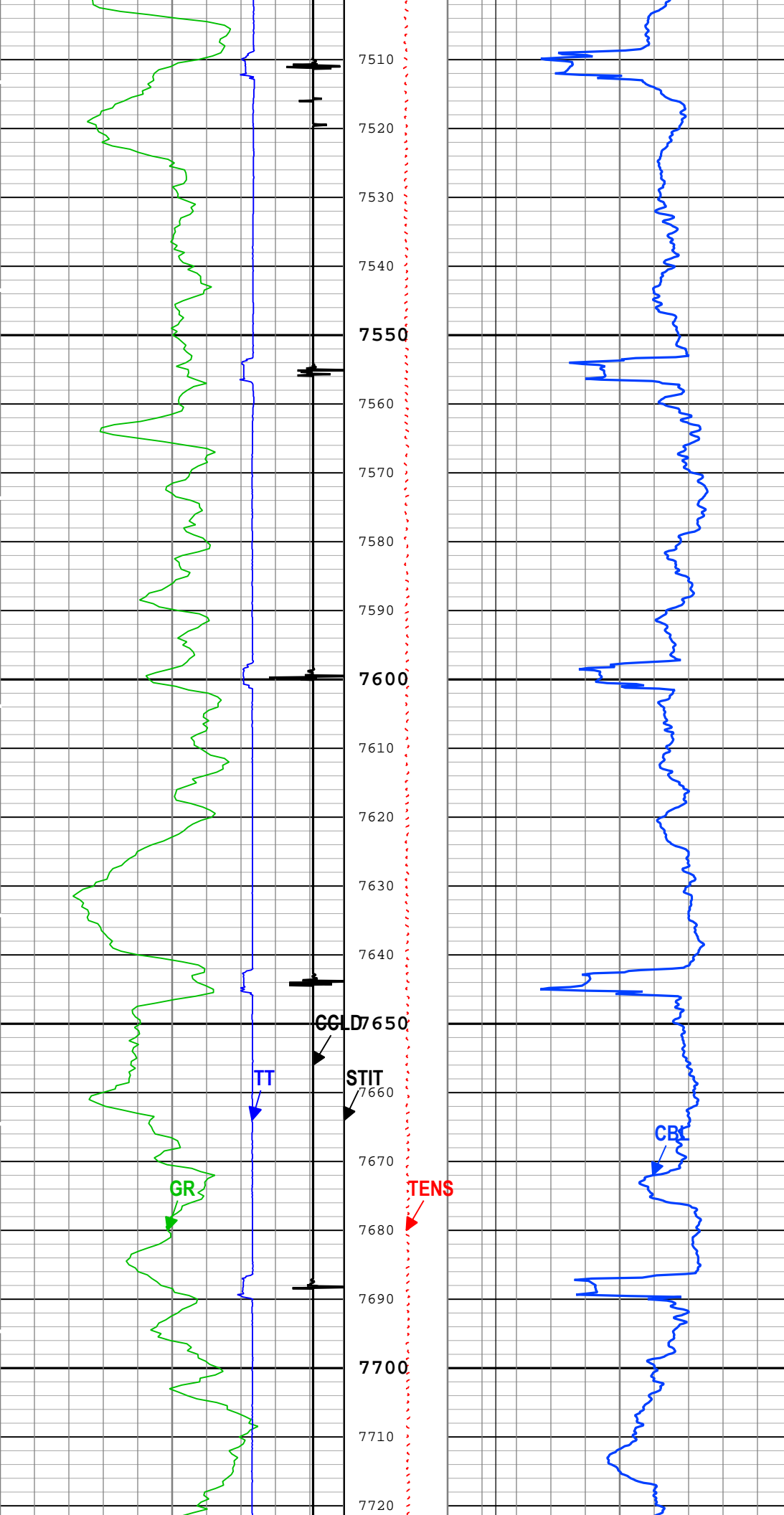




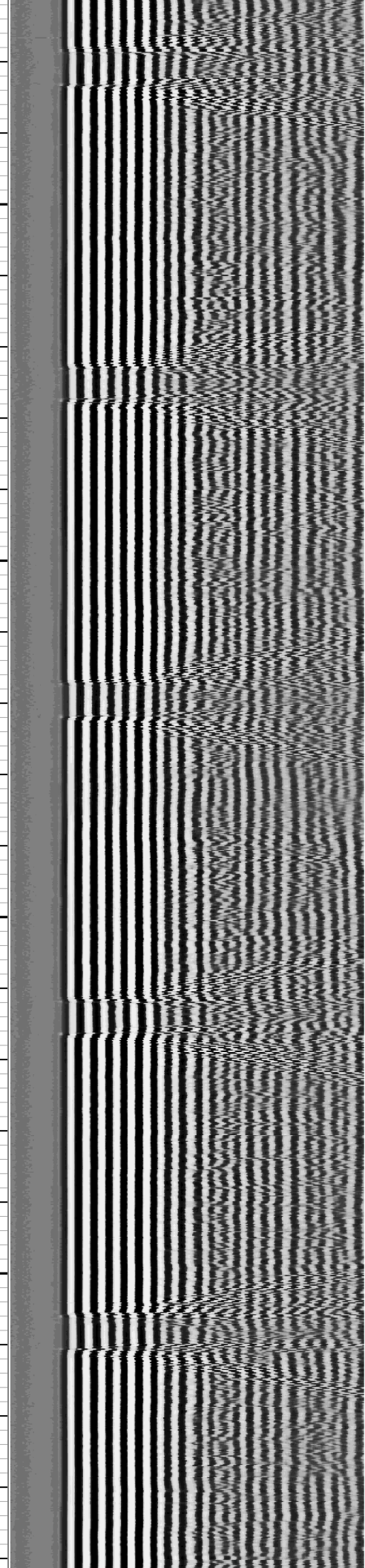
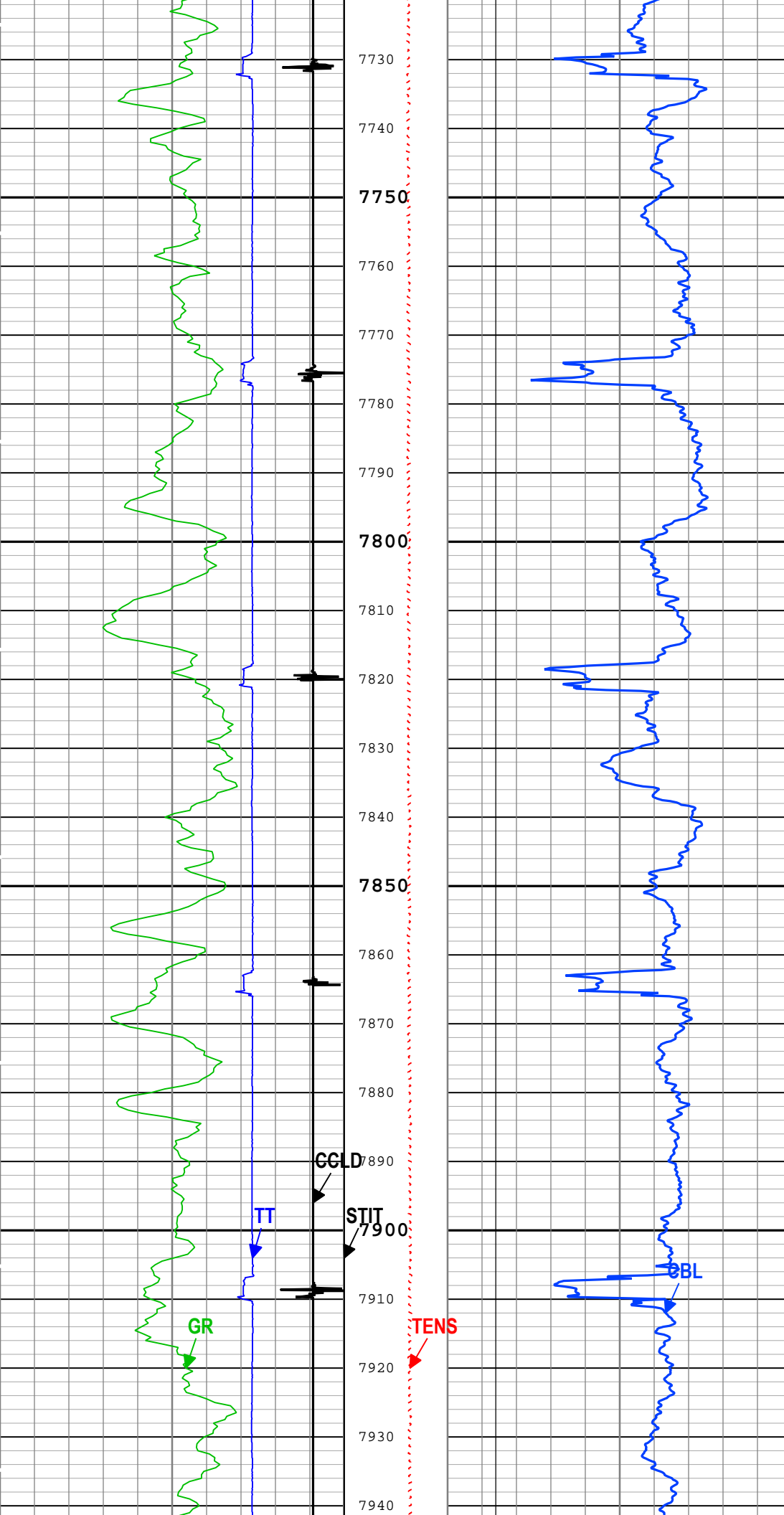


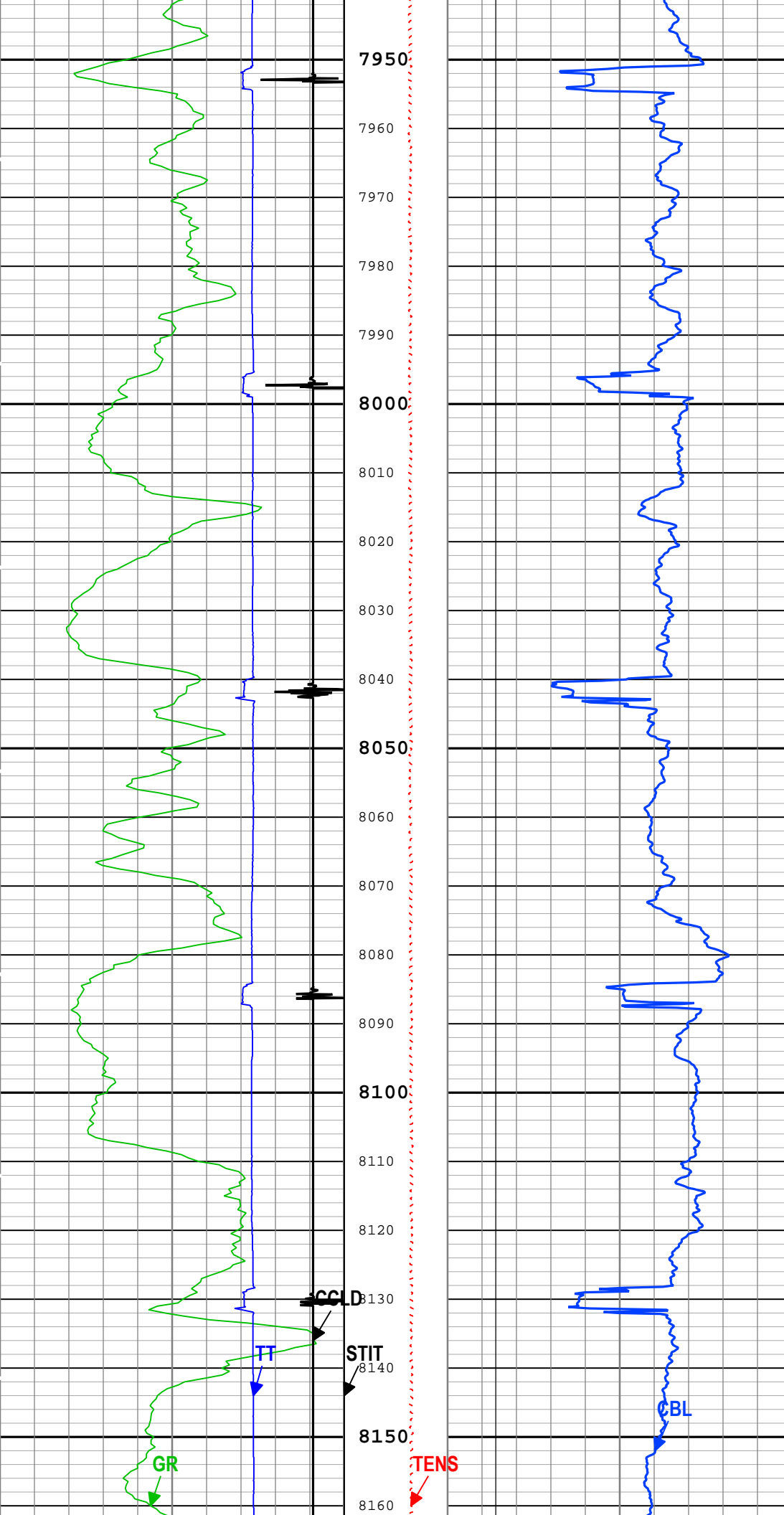


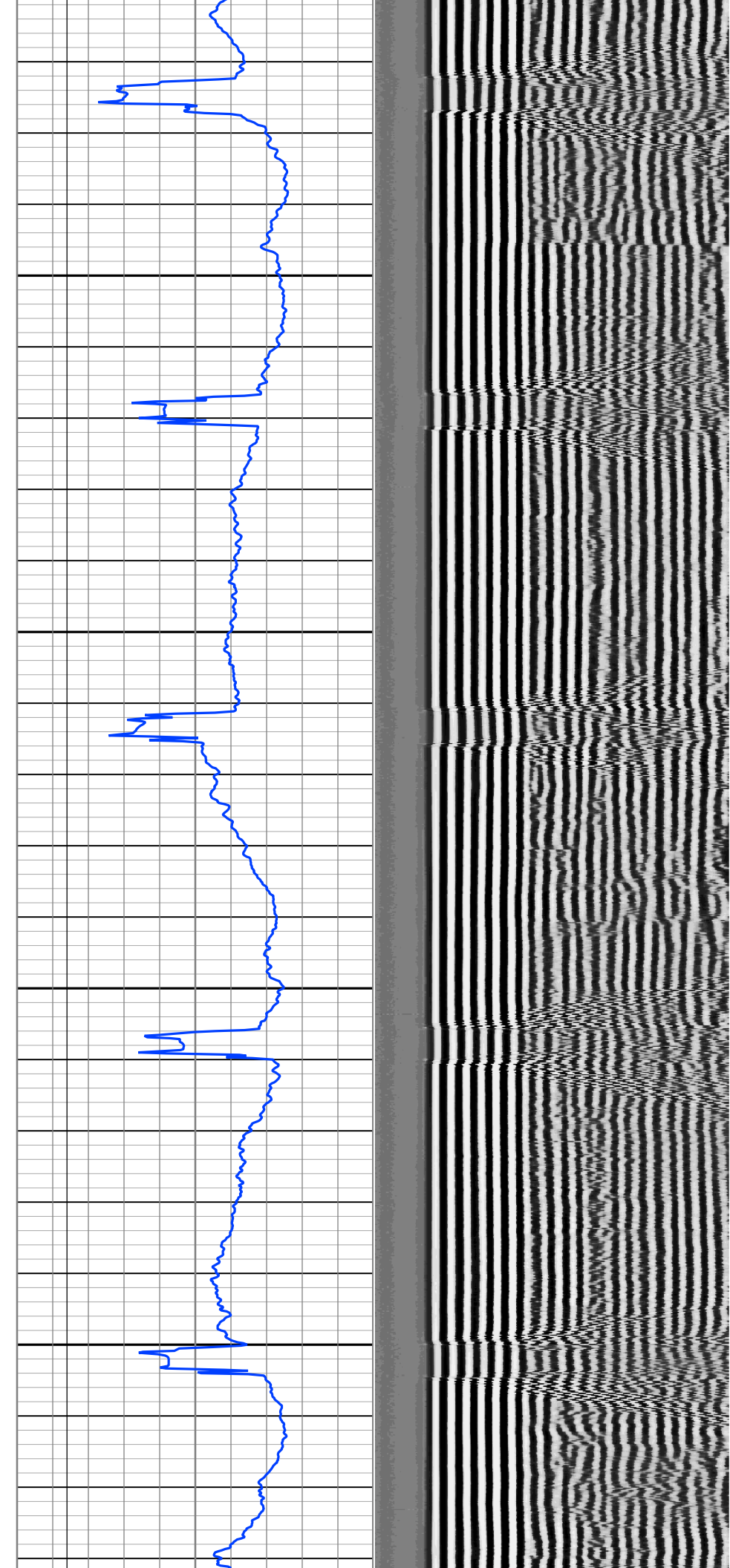
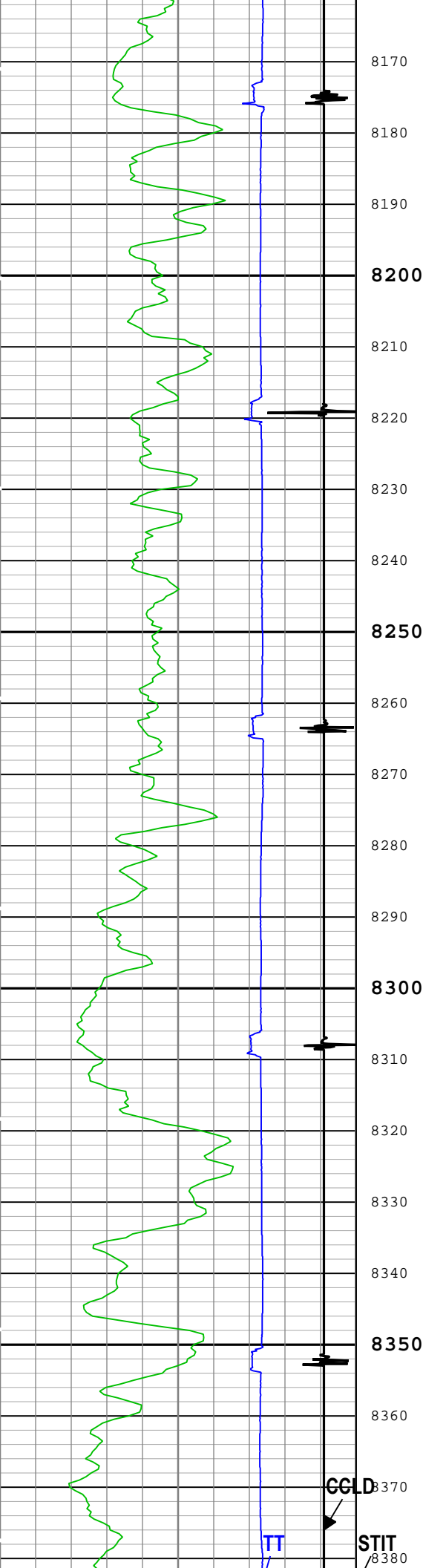




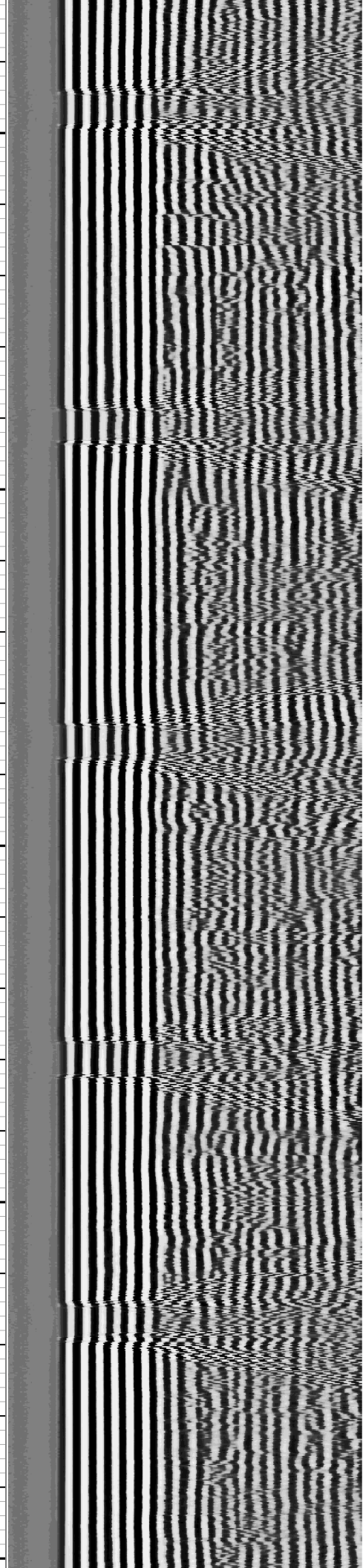
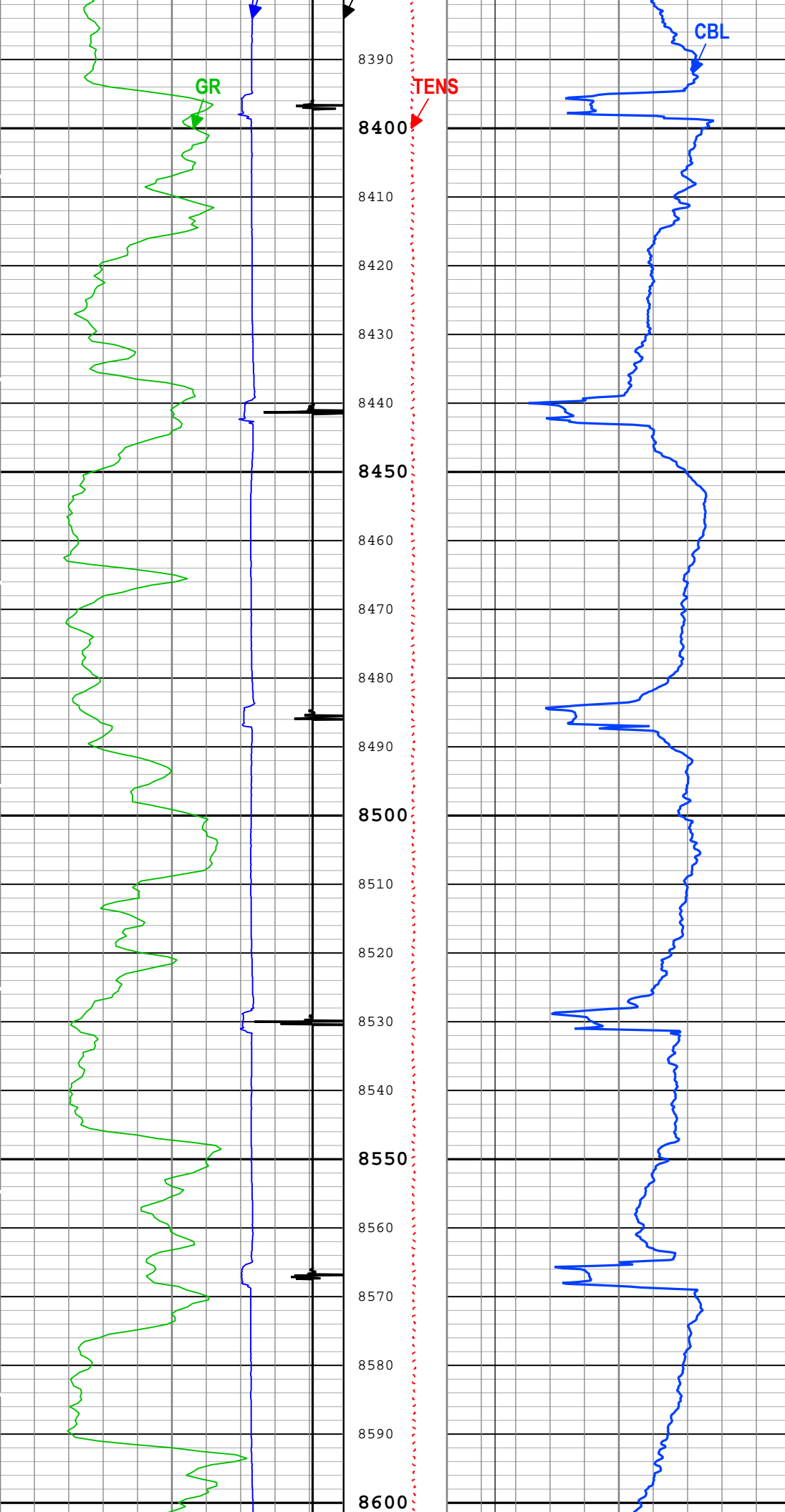




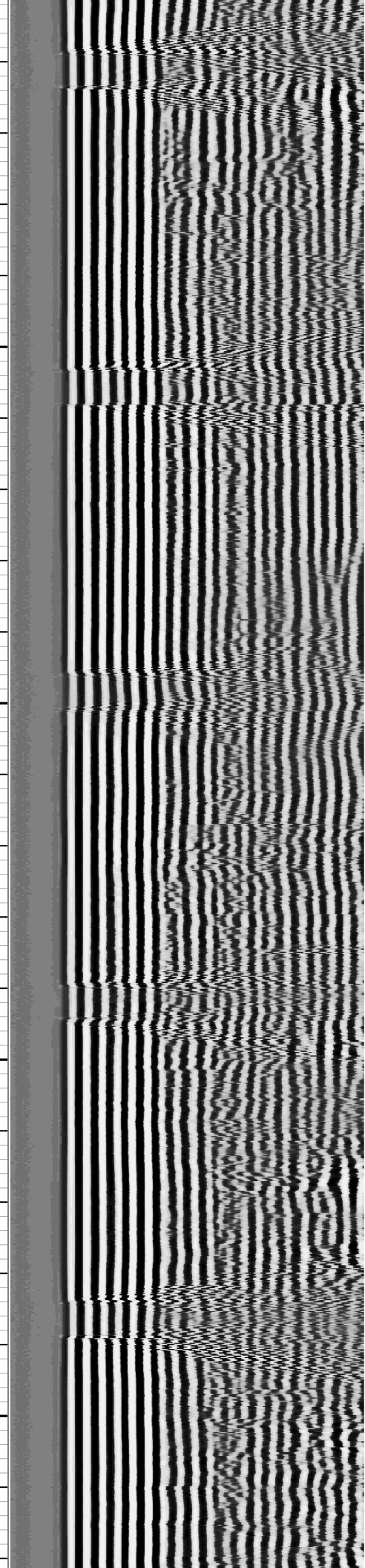
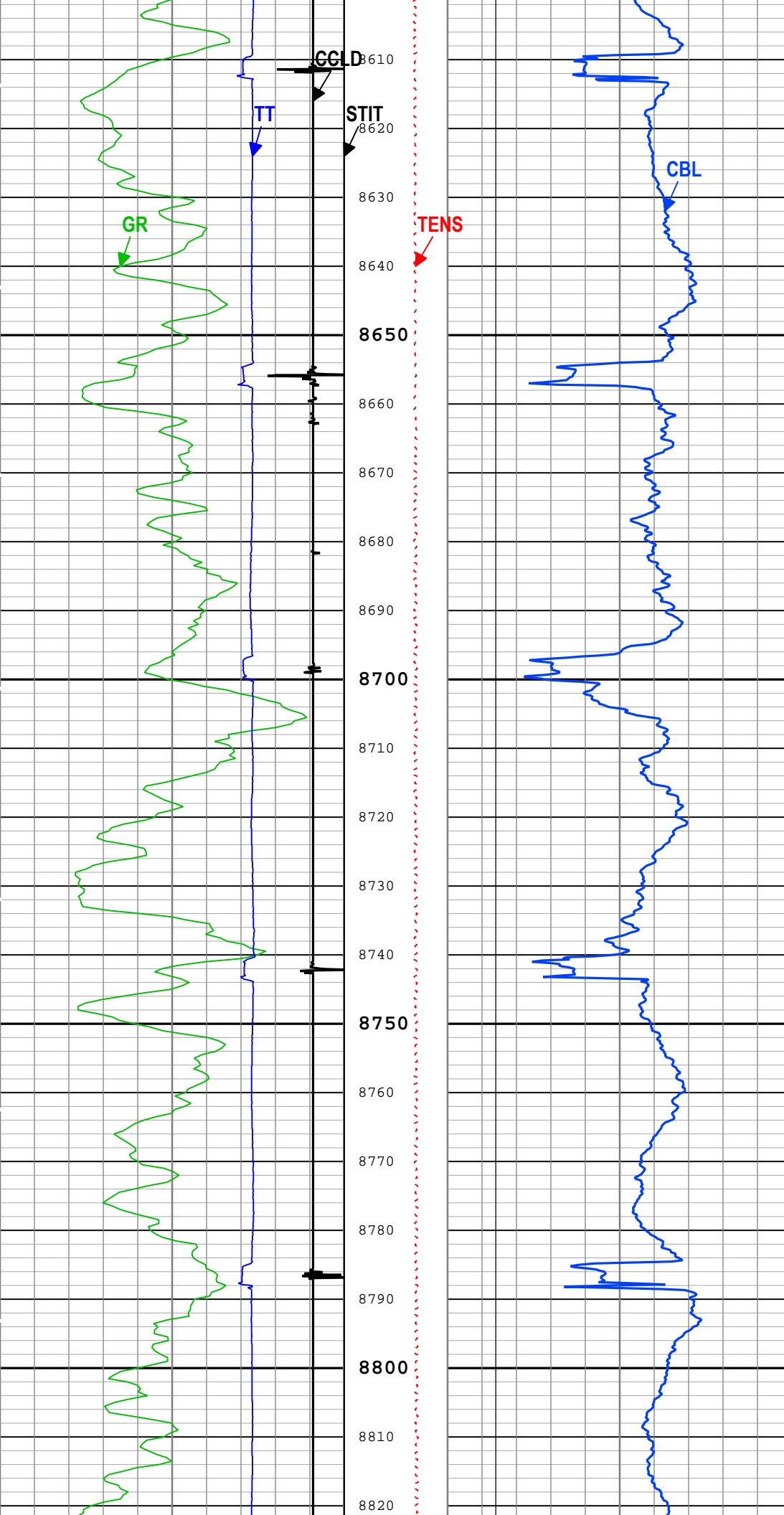


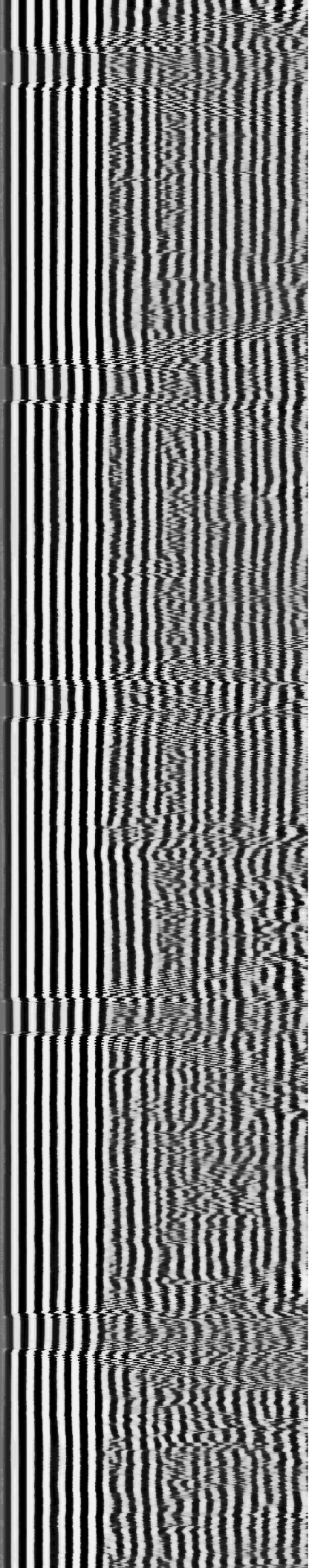
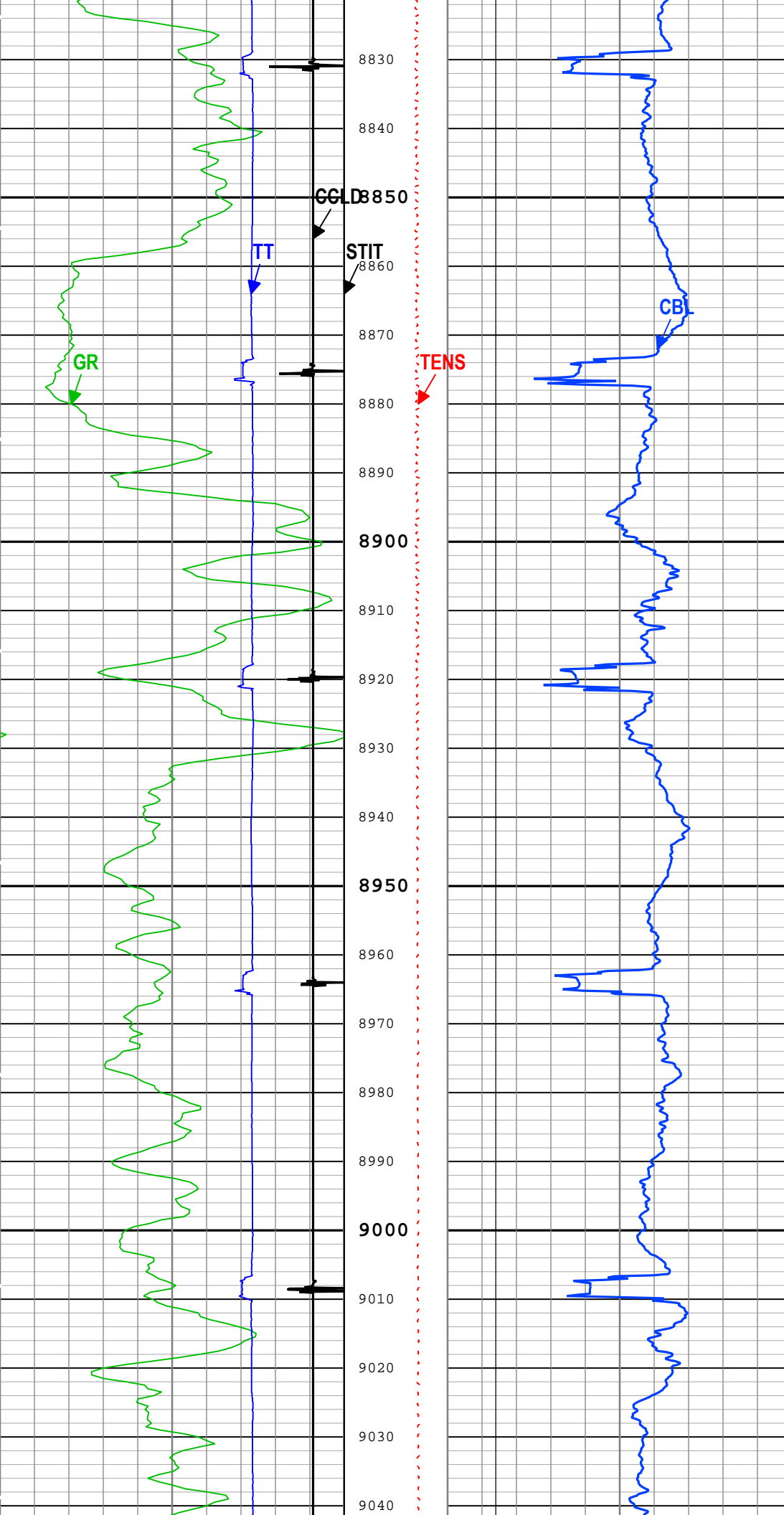


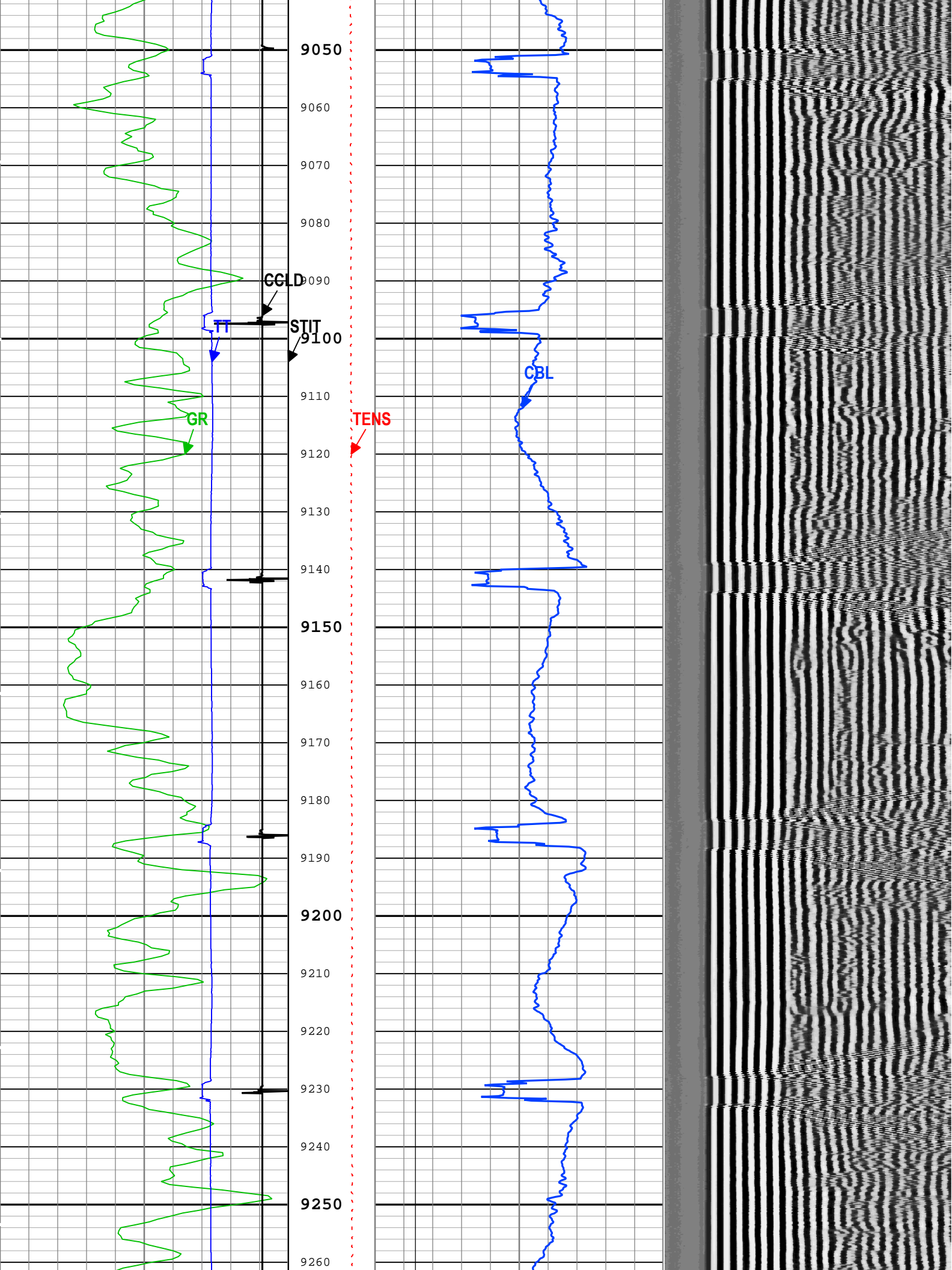




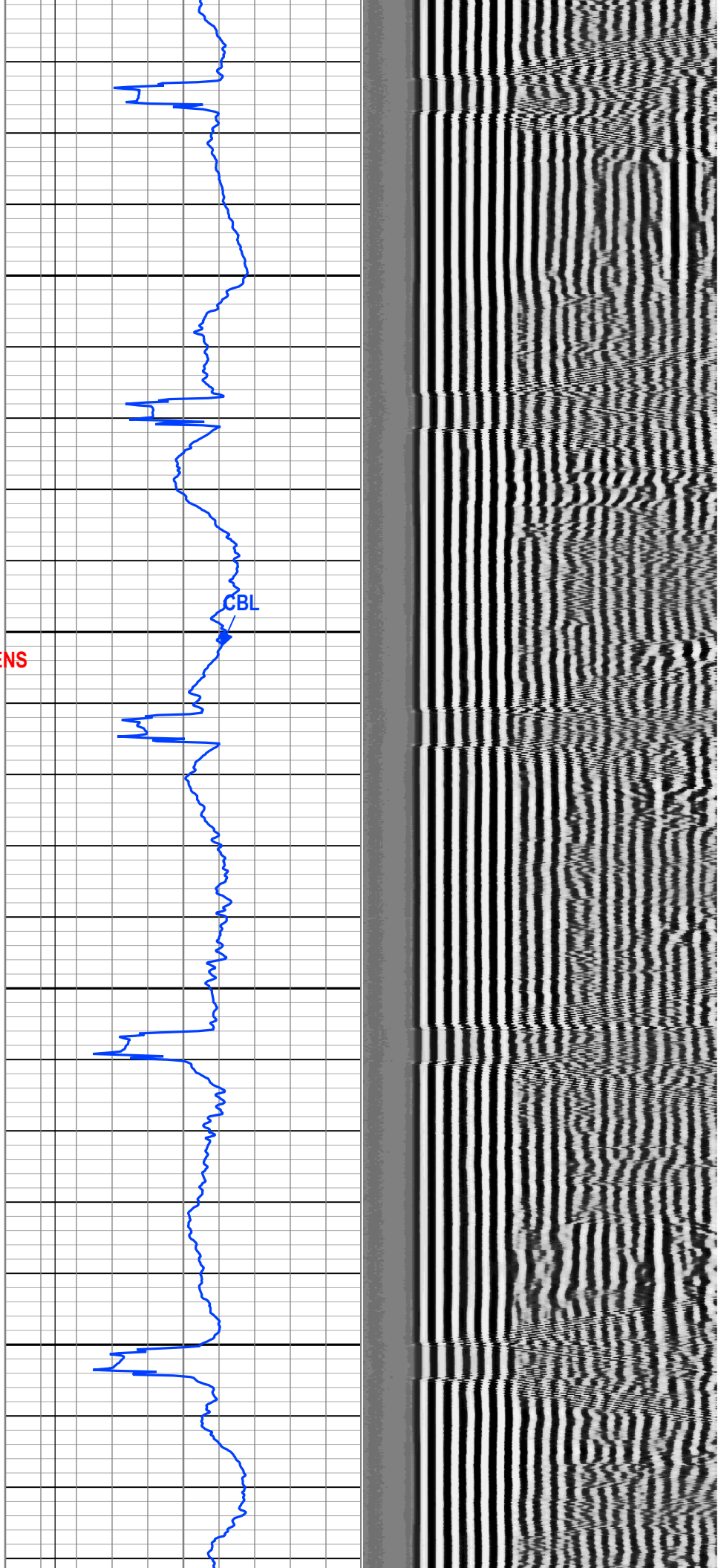
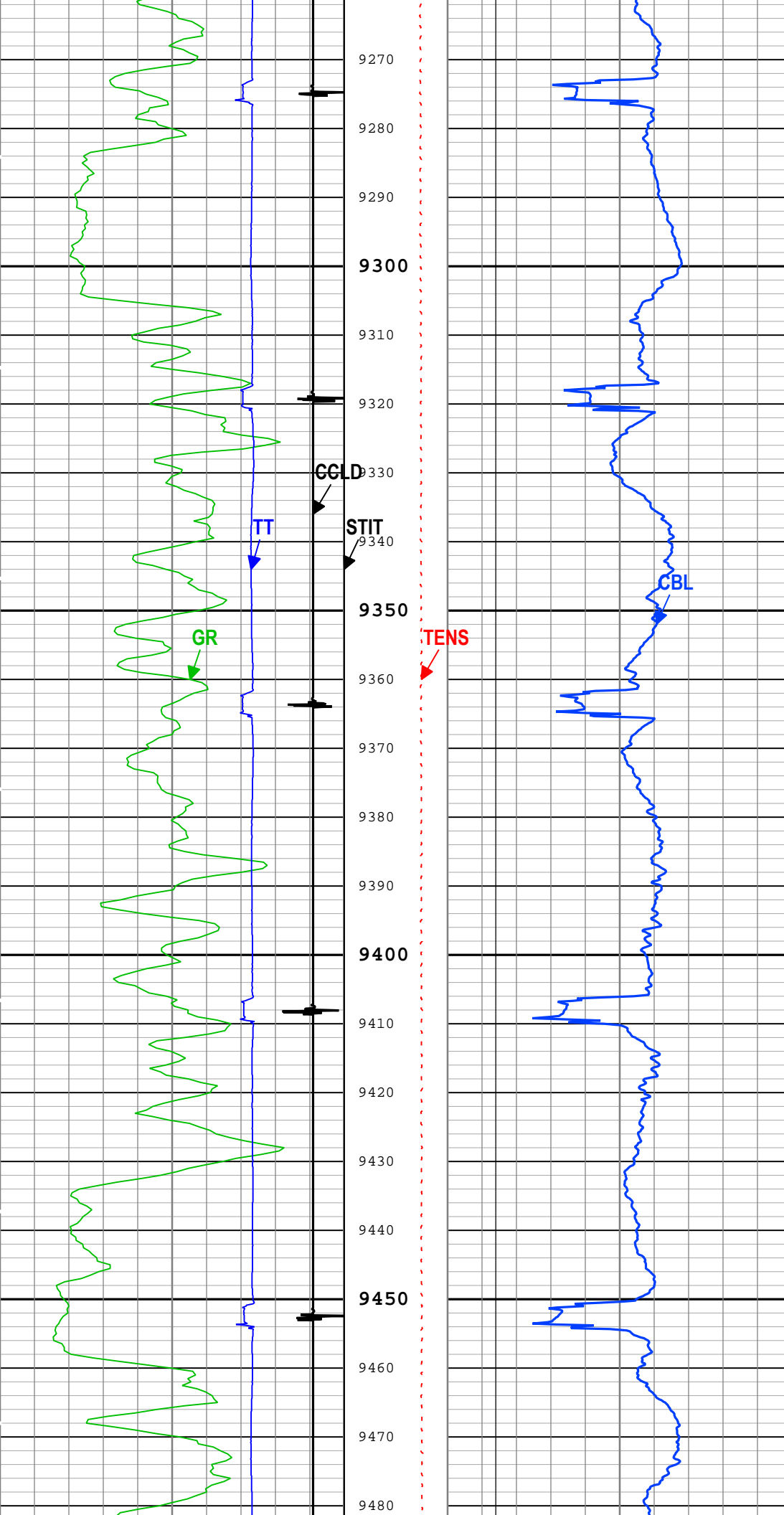


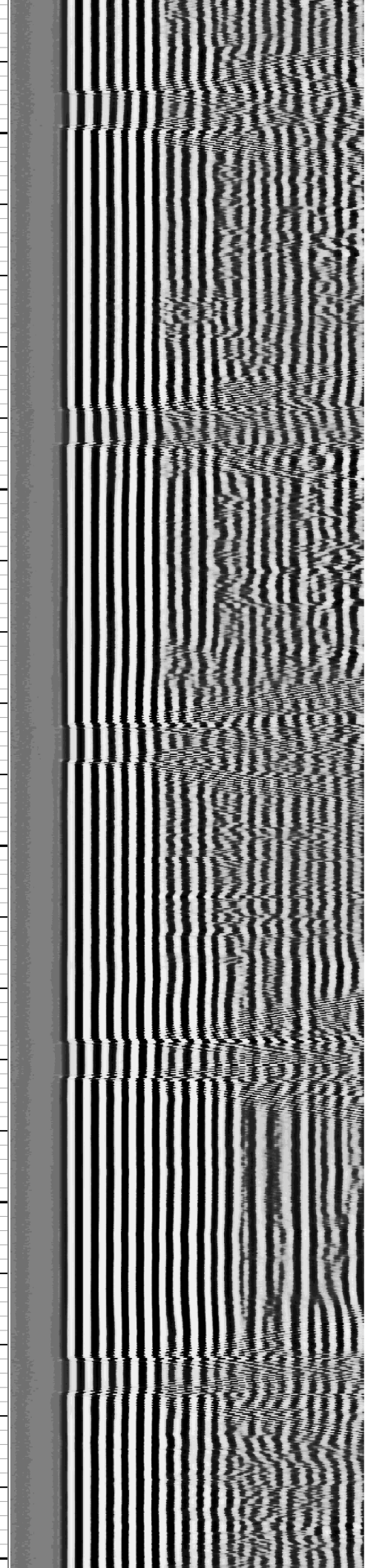
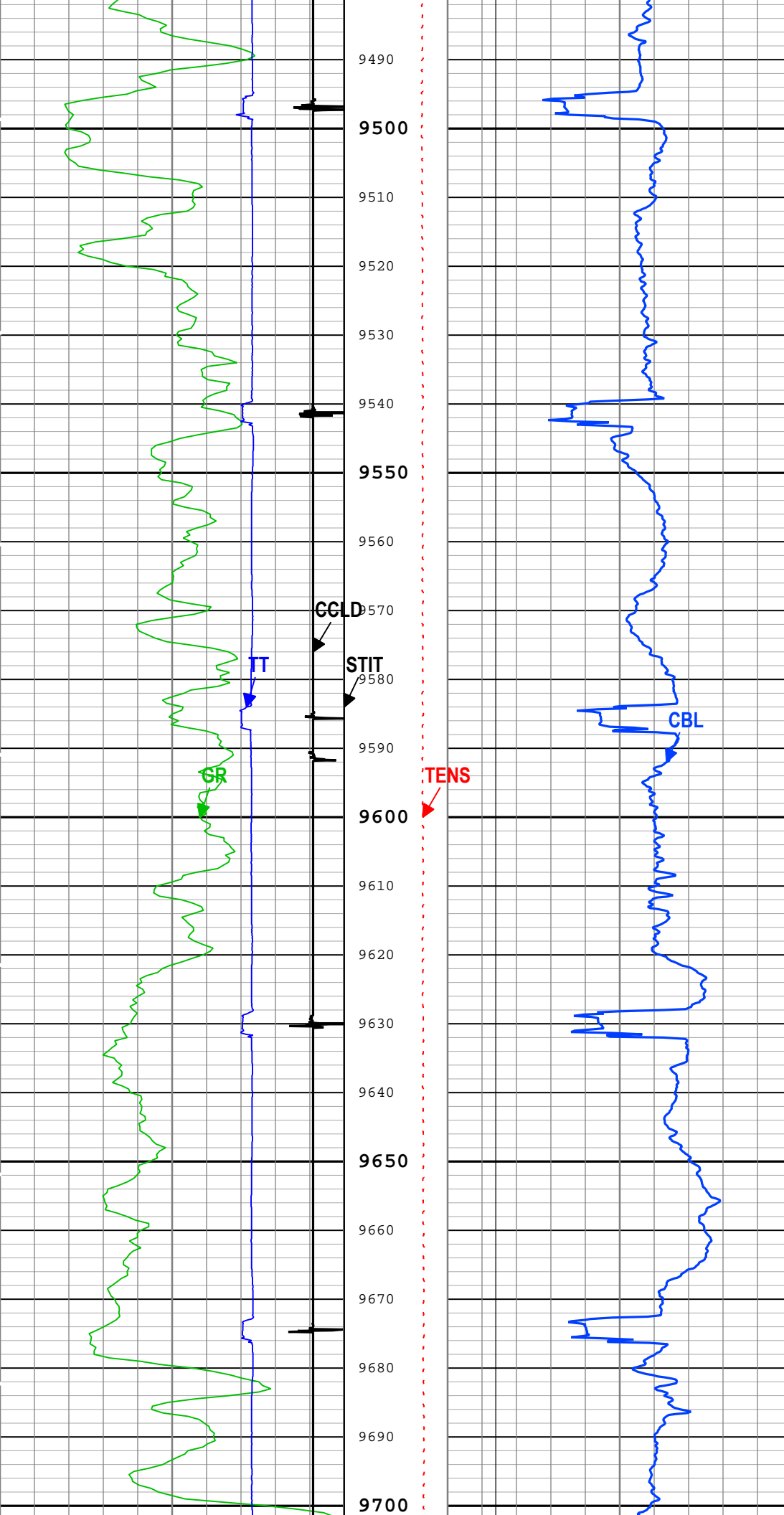


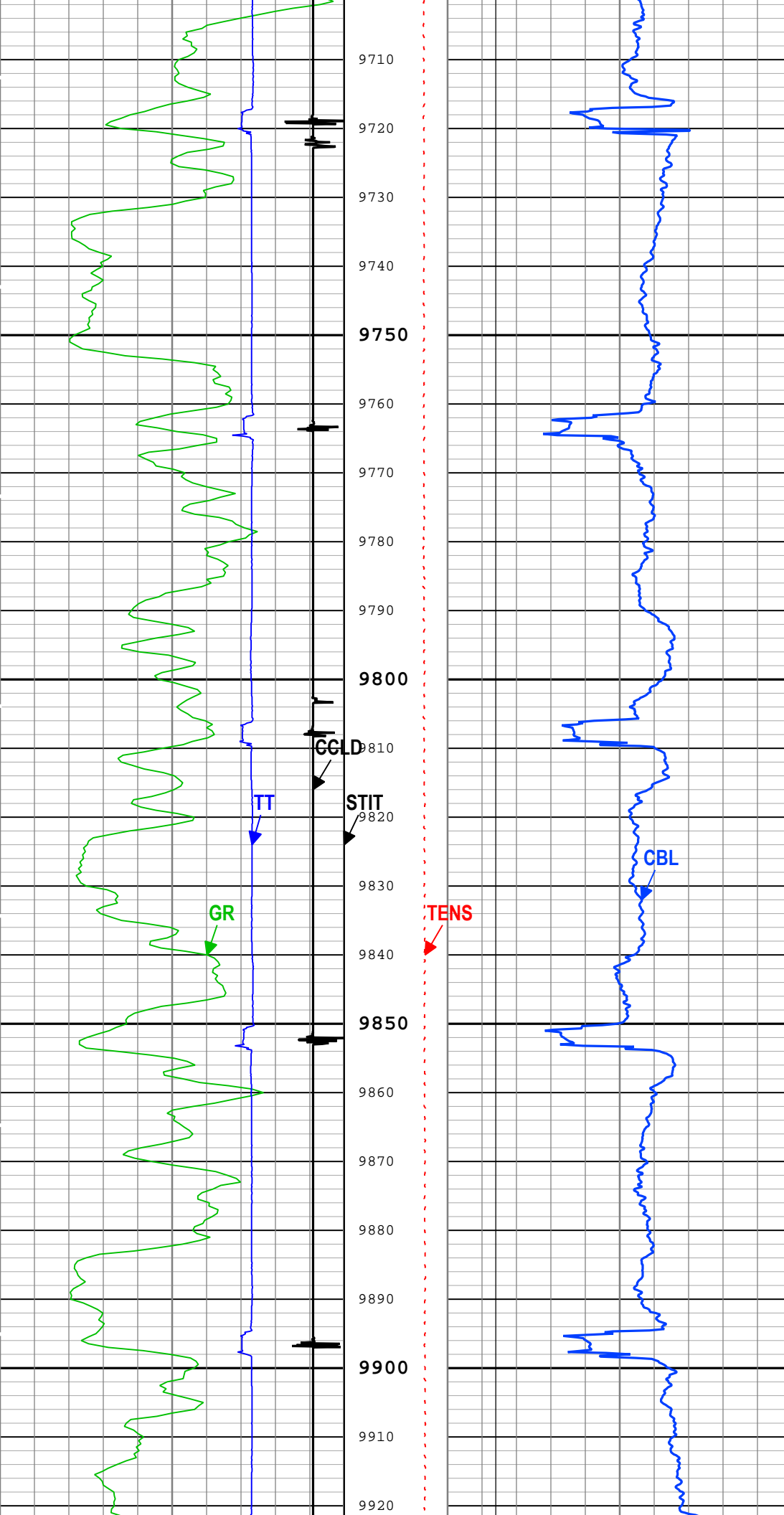




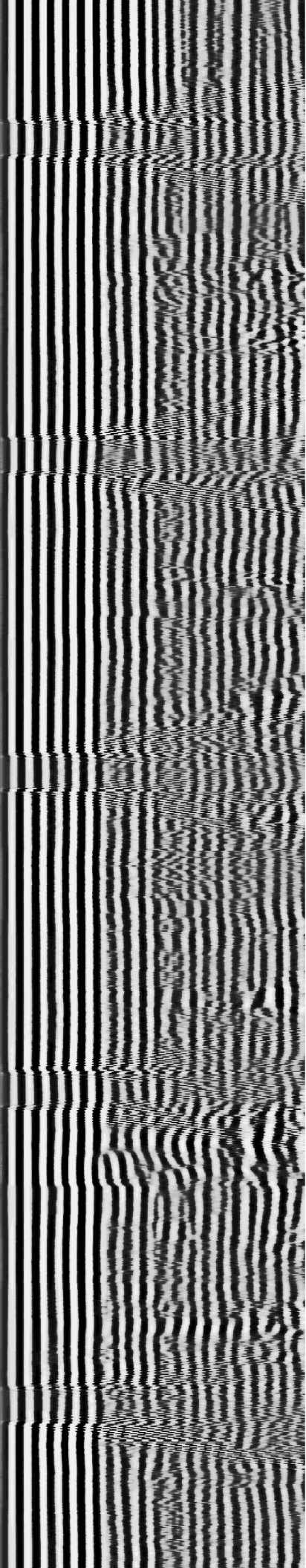
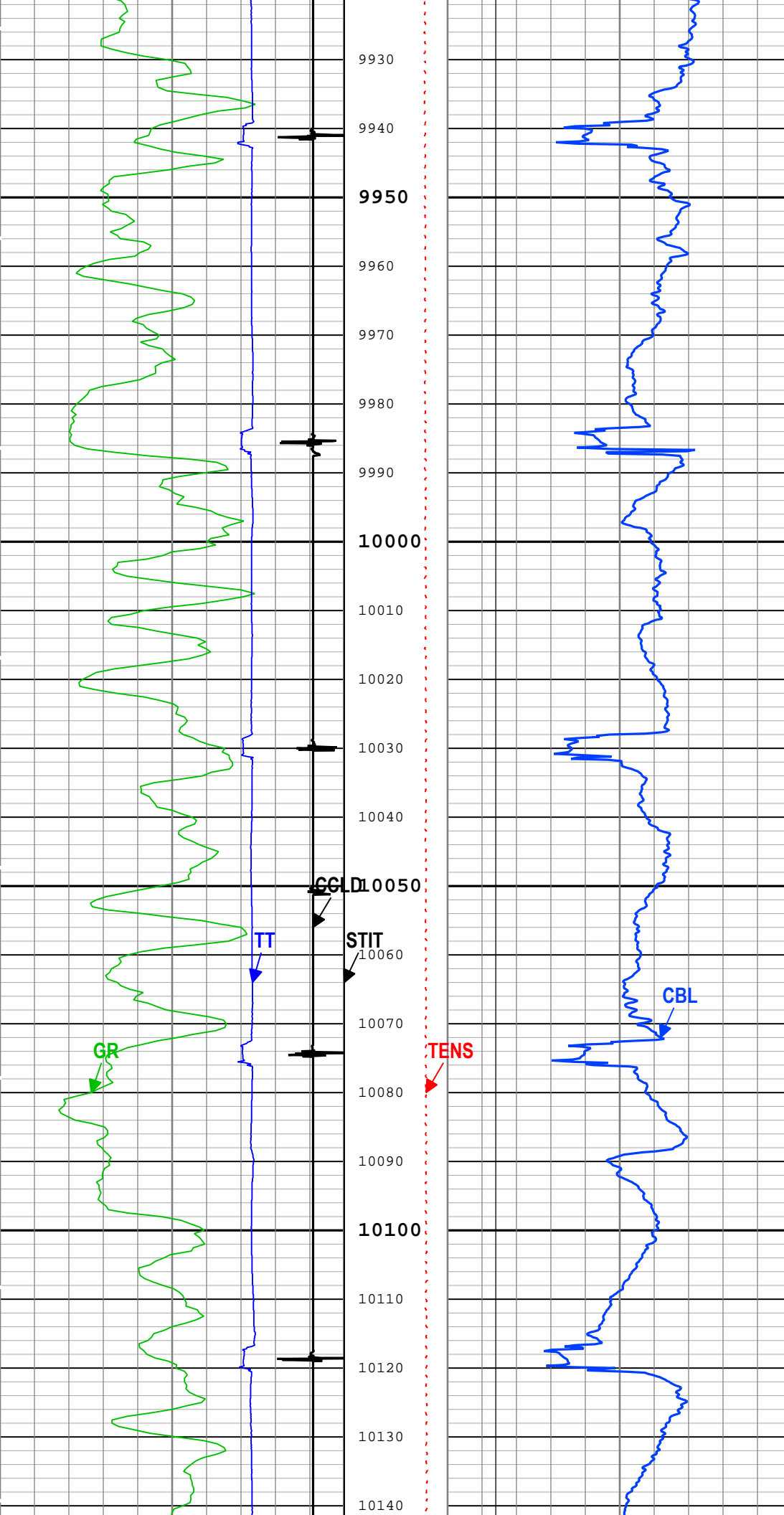


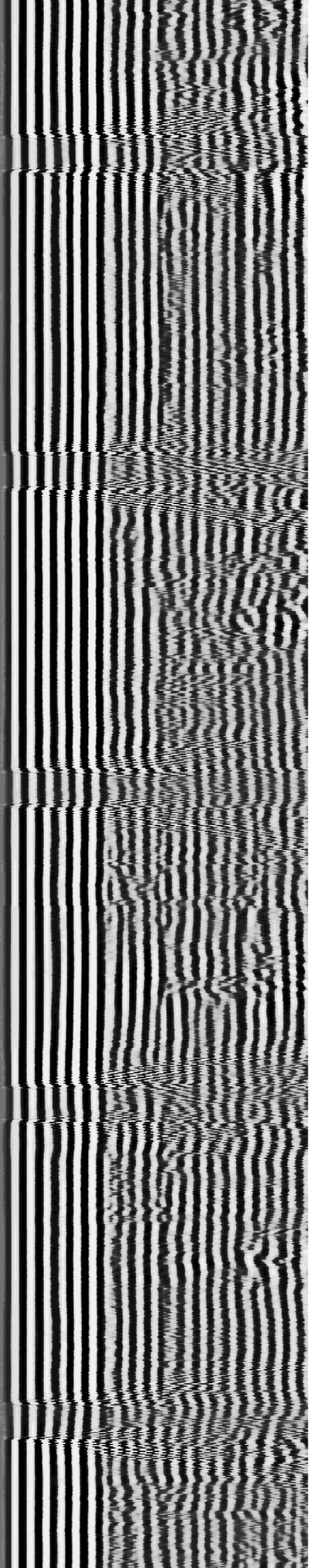
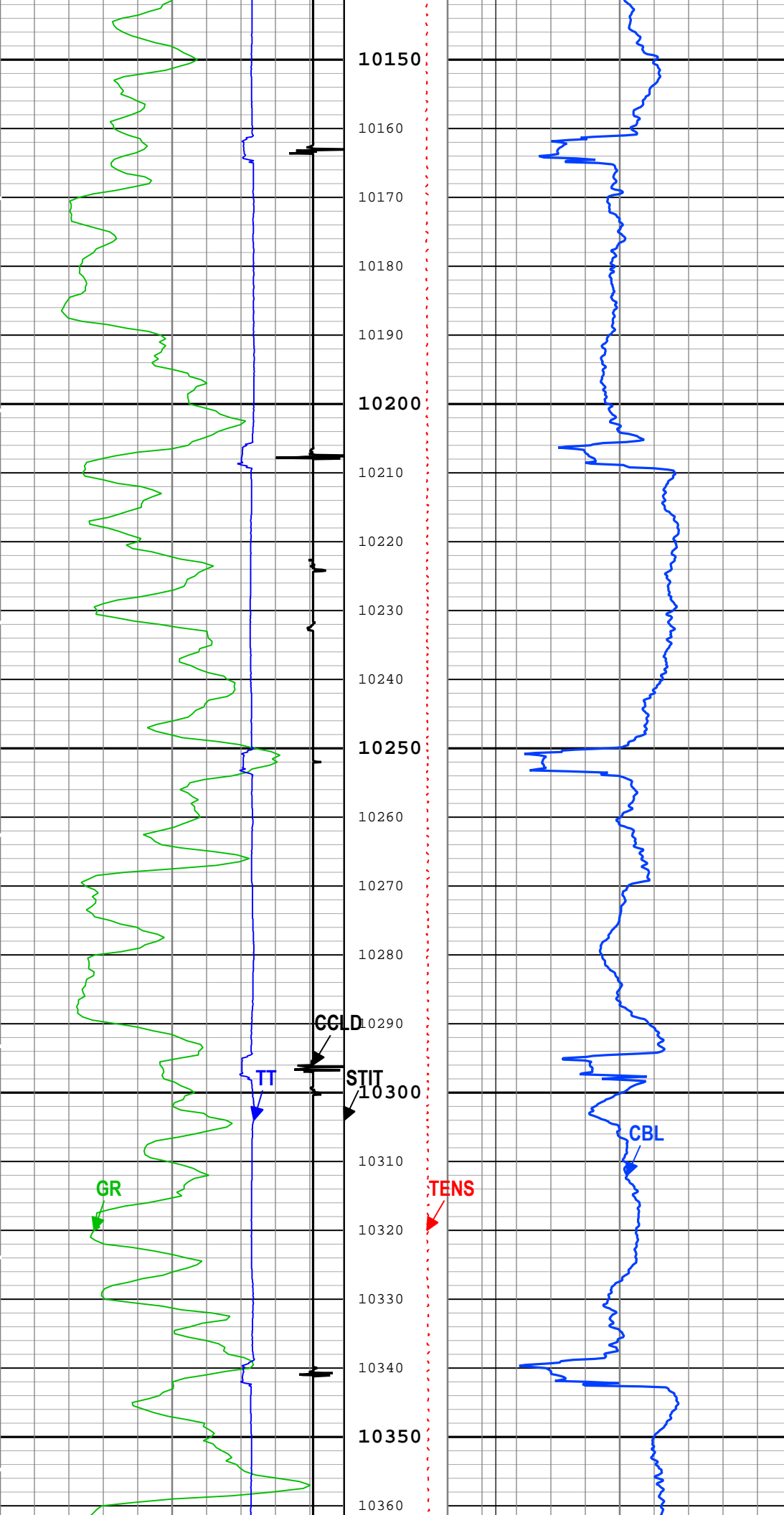


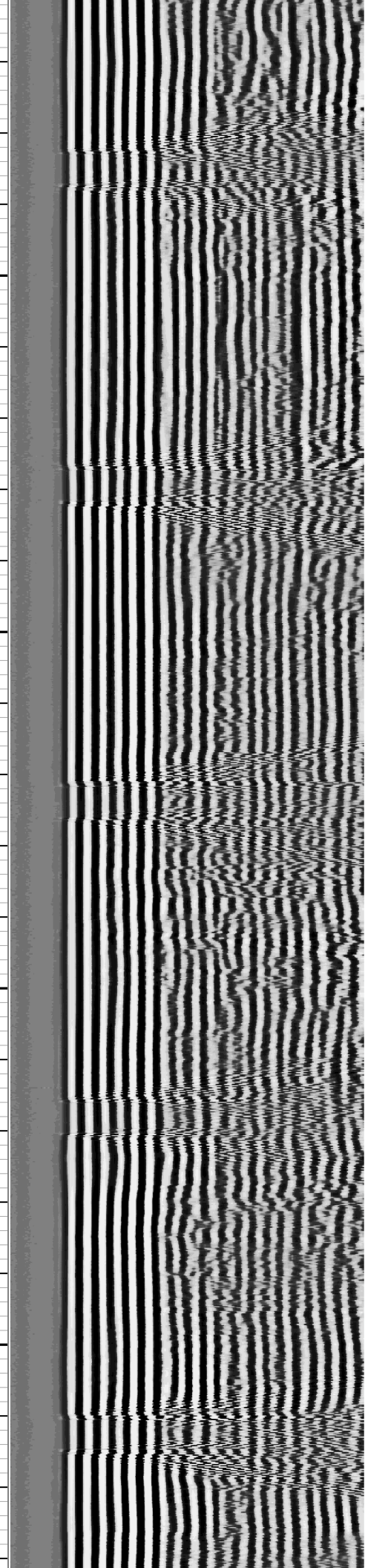
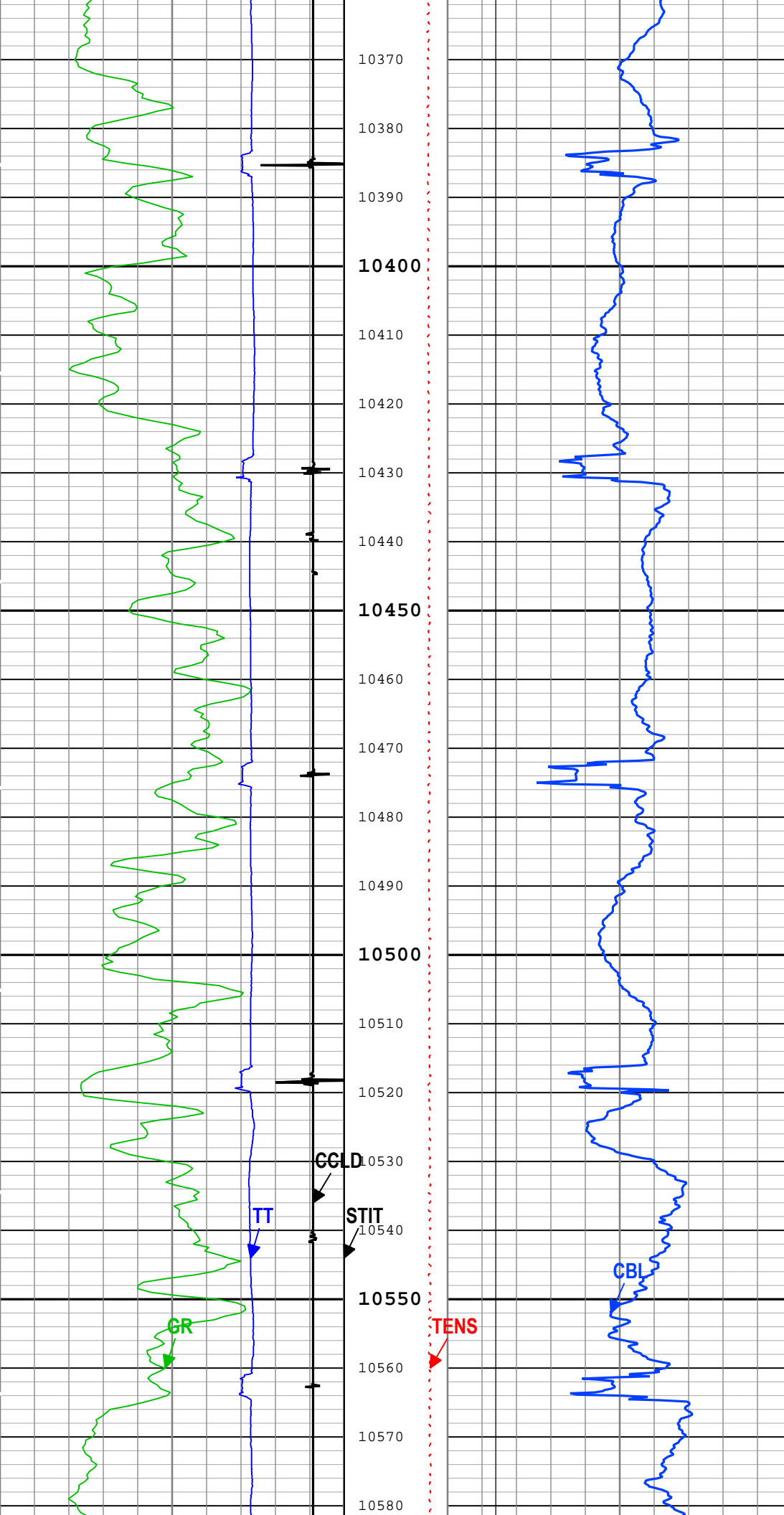




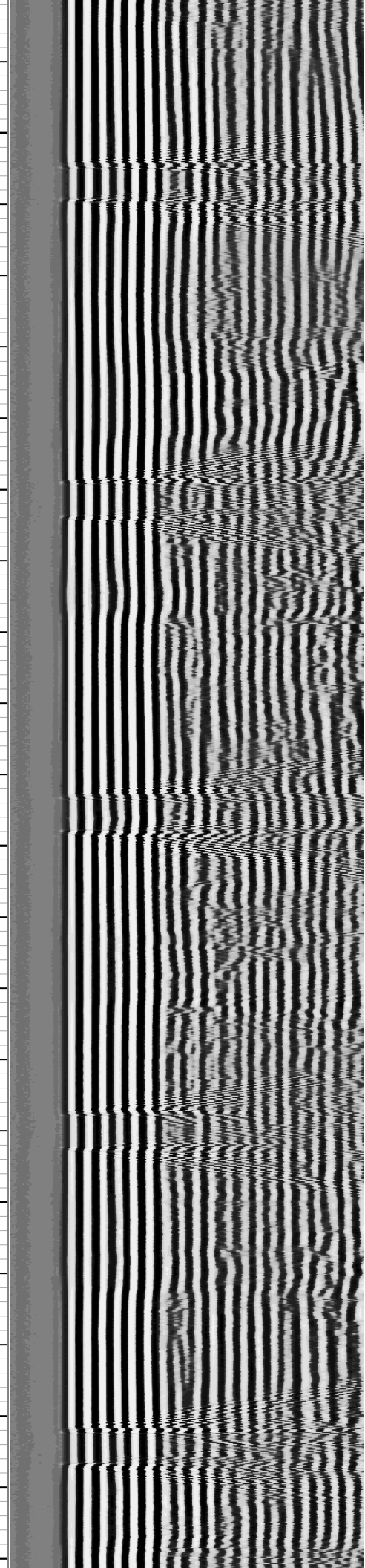
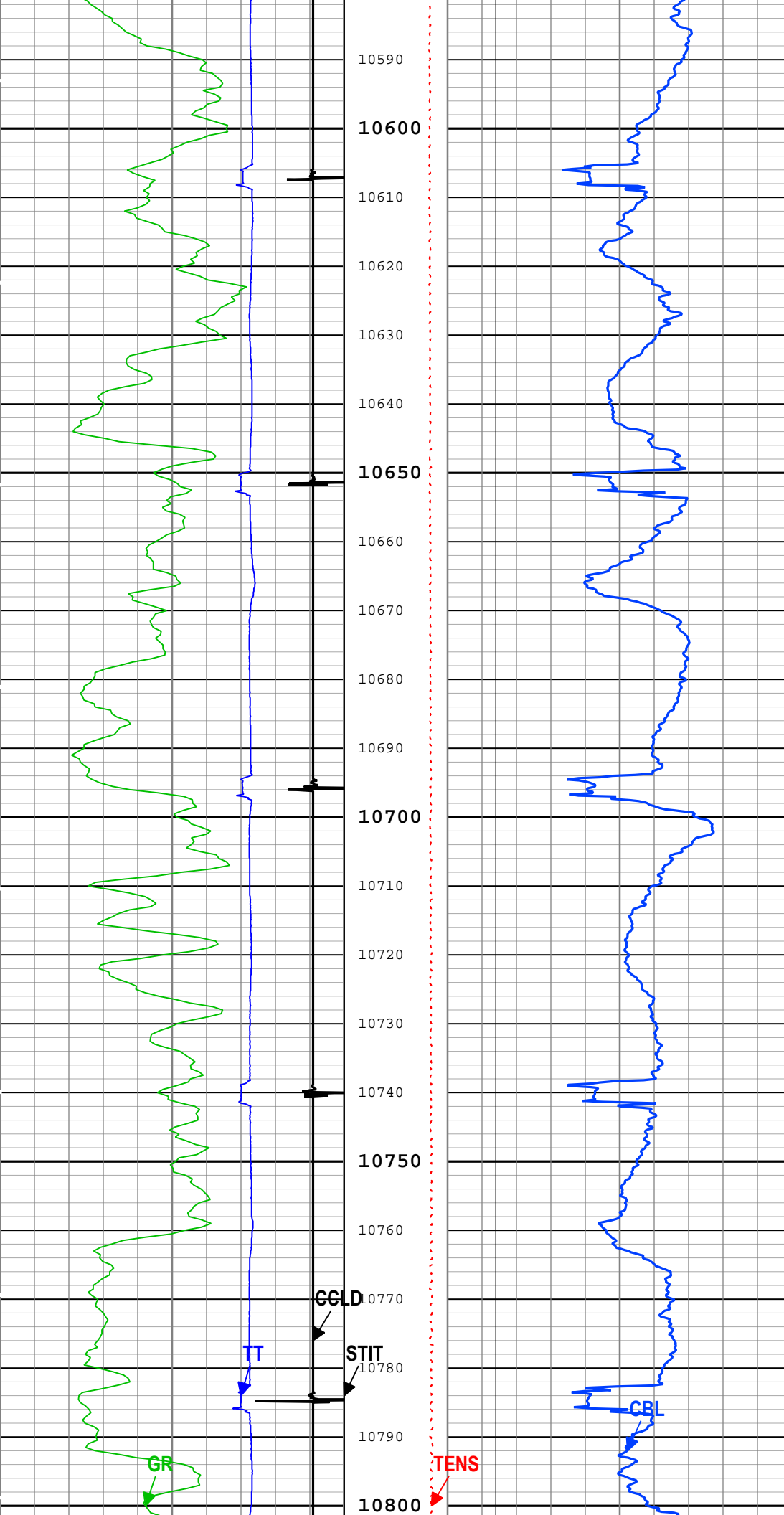


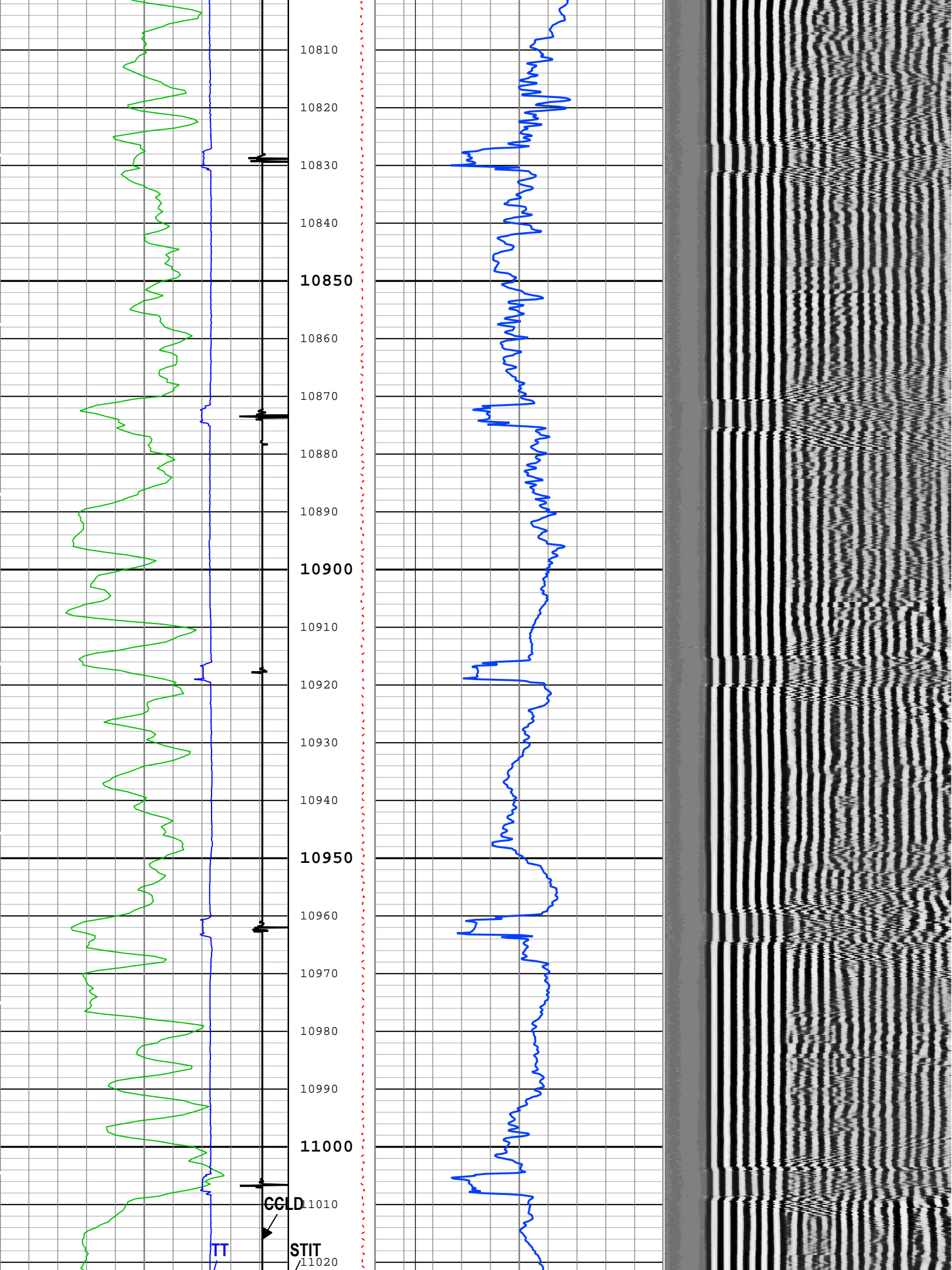


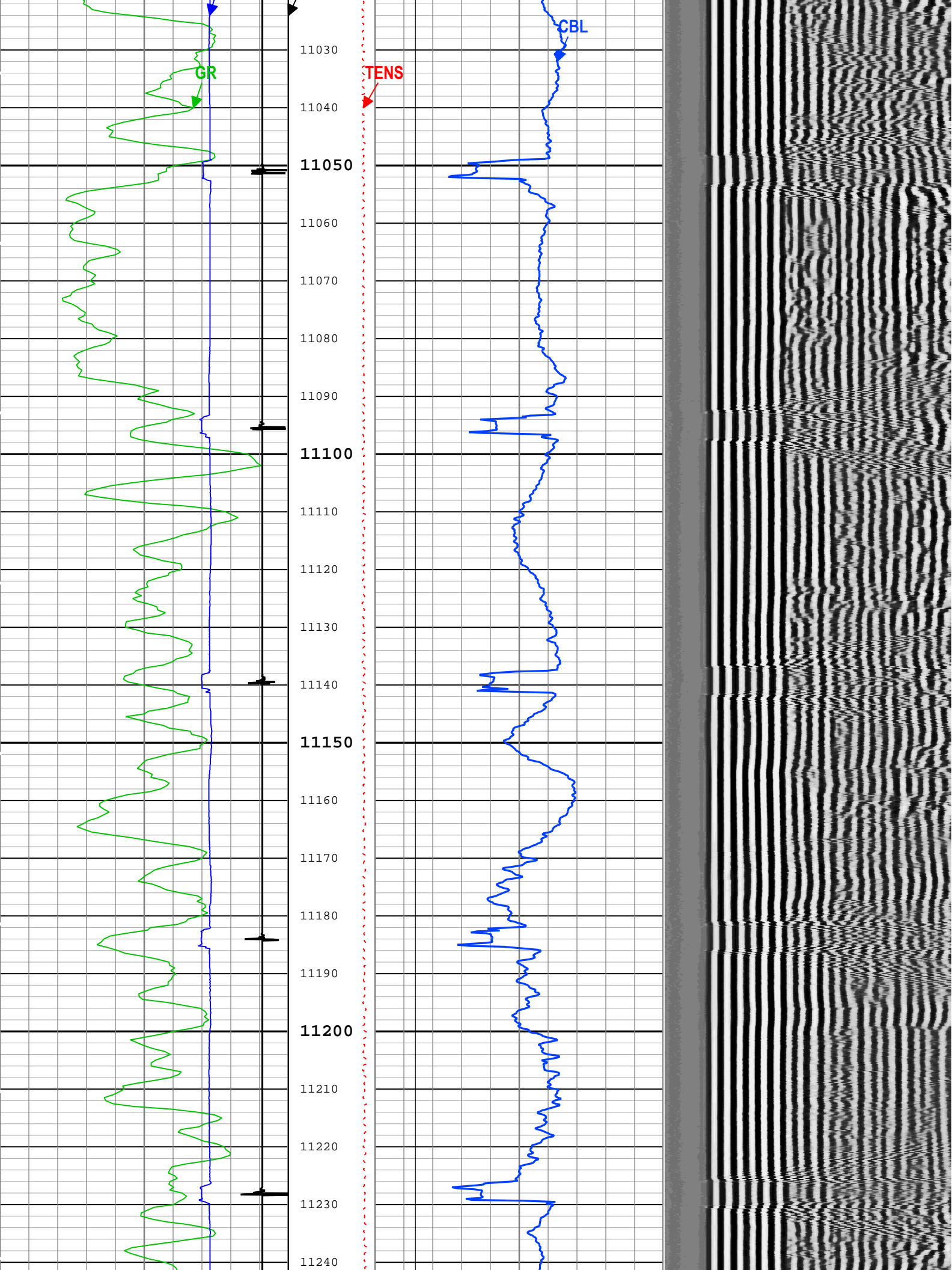




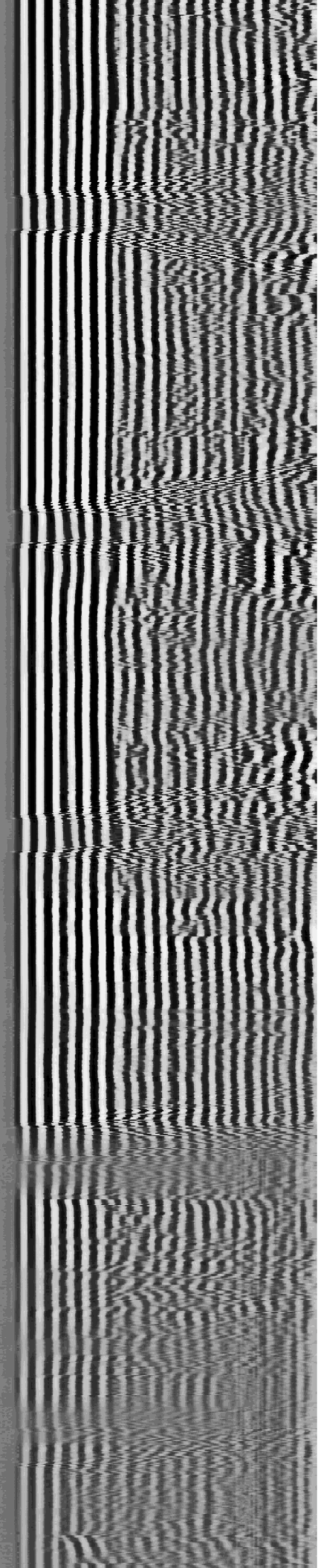
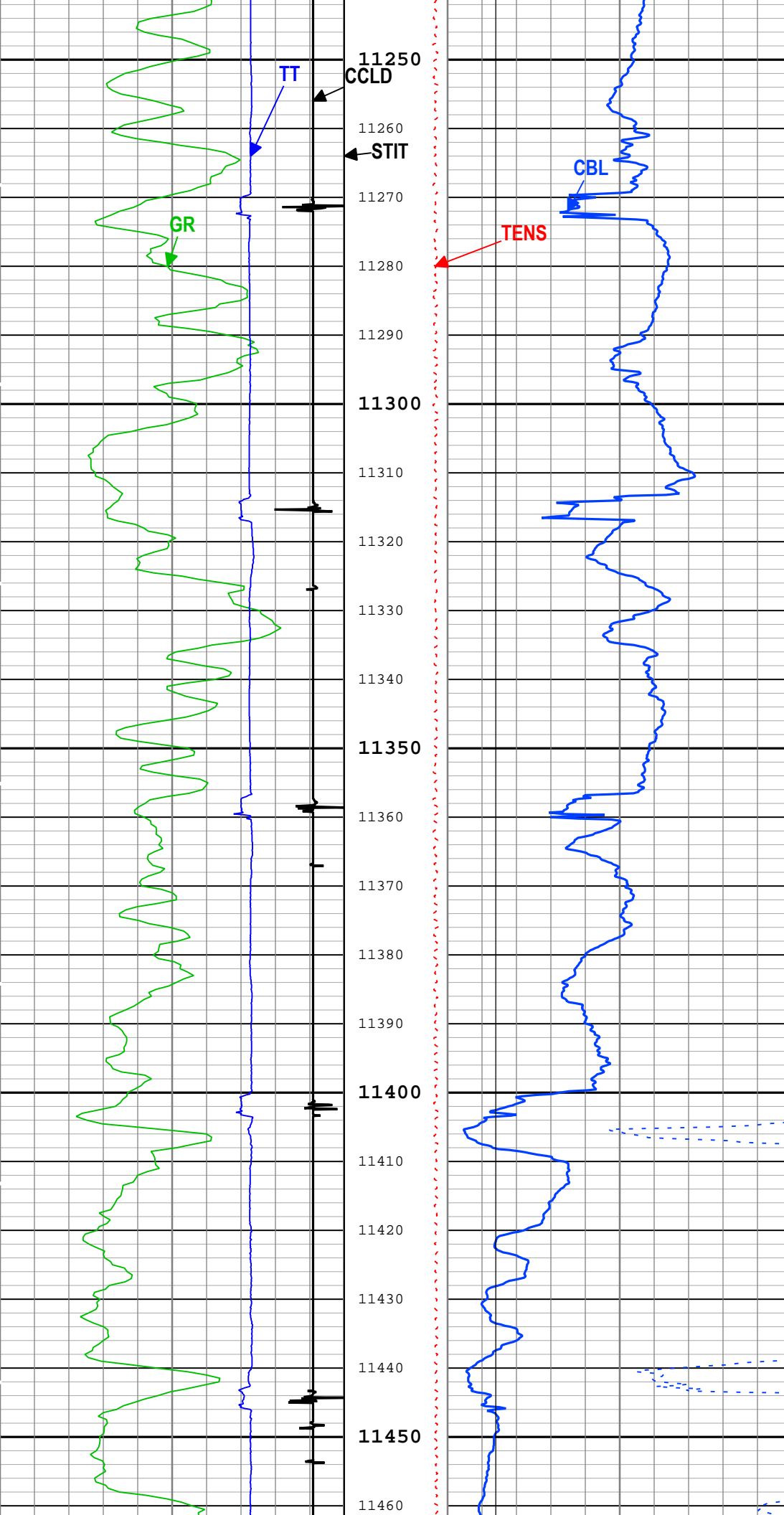


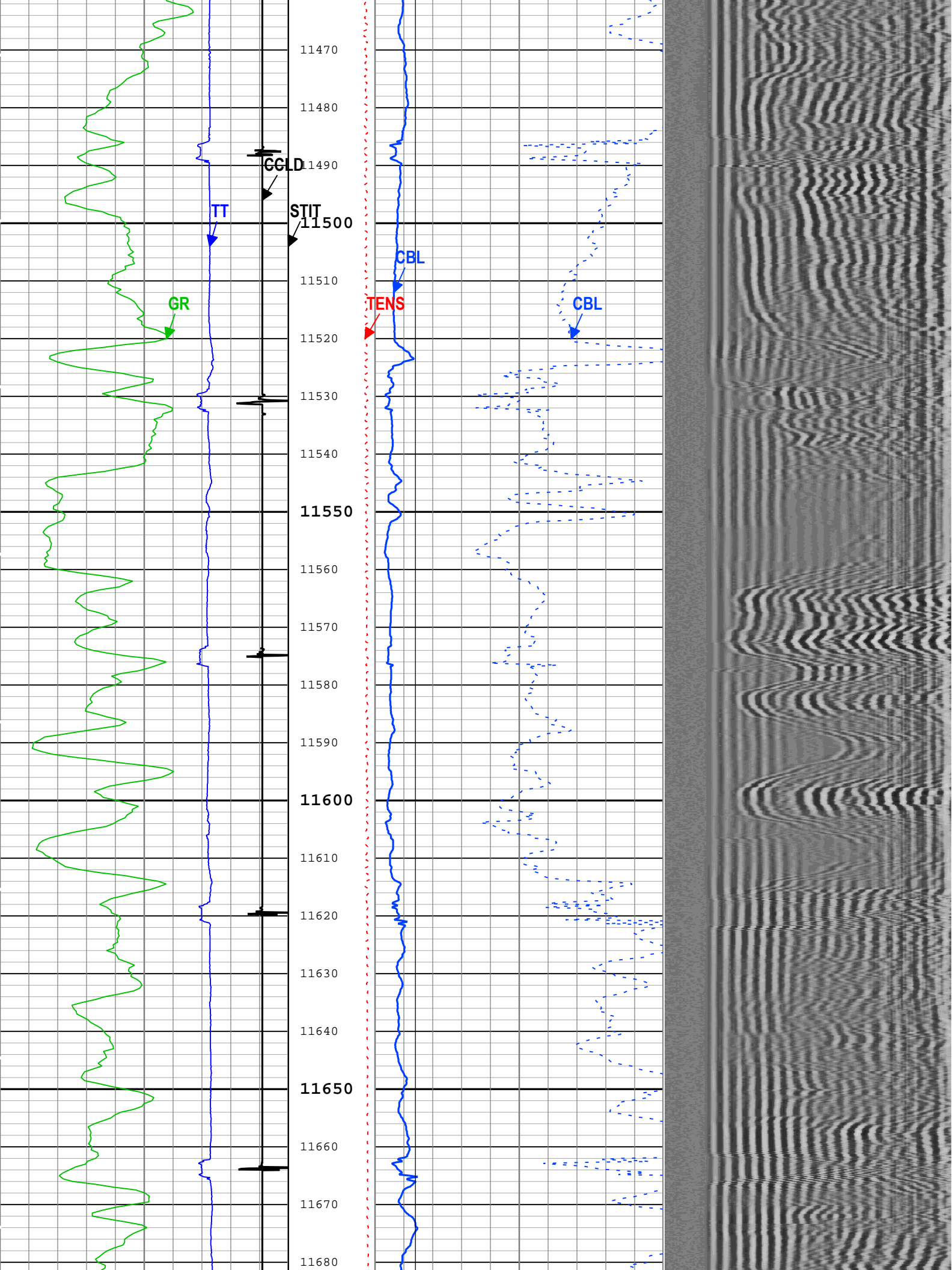


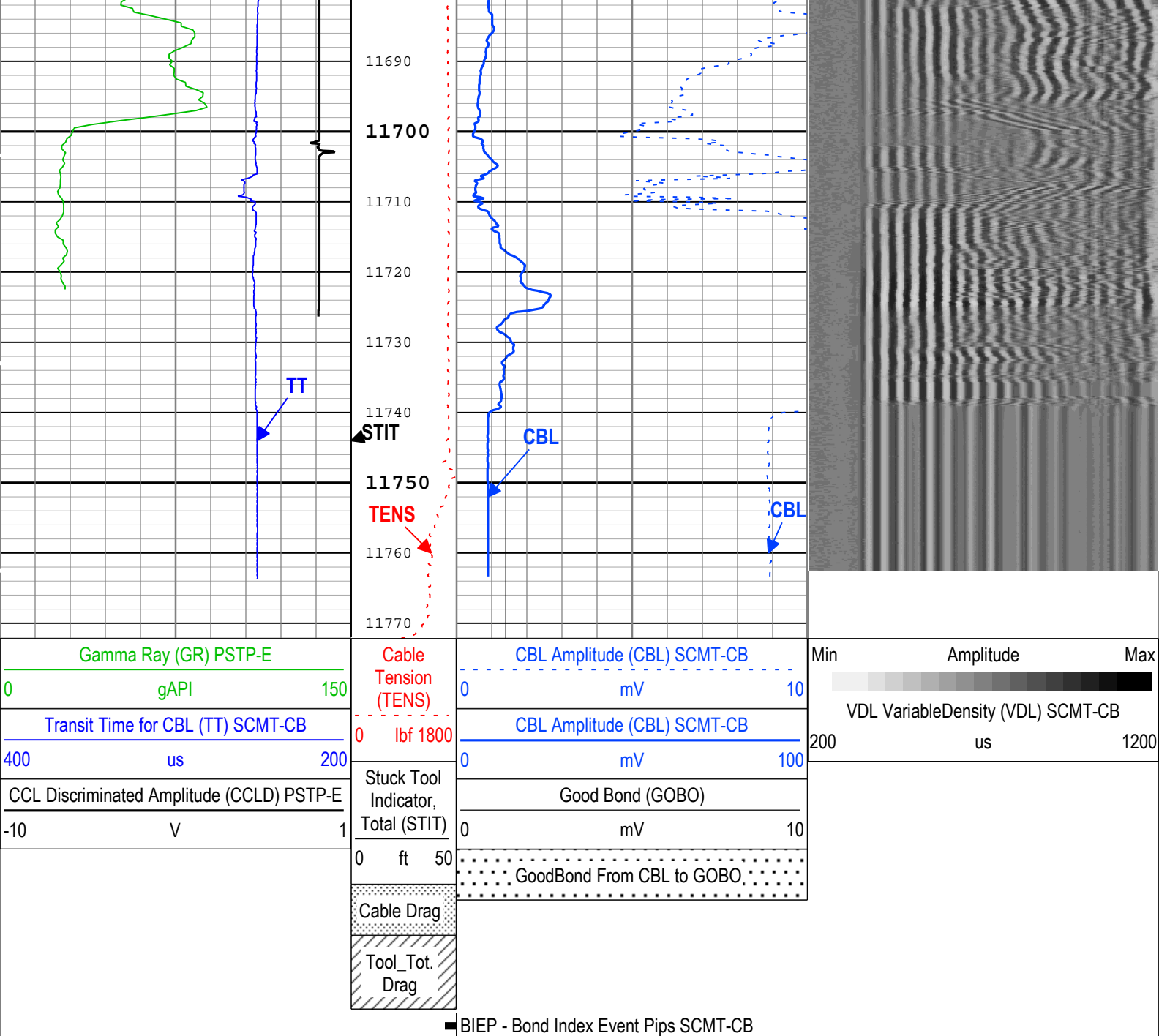












TIME\_1900 - Time Marked every 60.00 (s)

Description: Sonic CBL with VDL Format: Log ( Sonic CBL with VDL ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 09-Mar-2019 13:04:08

## Channel Processing Parameters

### ONE: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	57	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
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	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft



EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8331	ft
FCF	CBL Fluid Compensation Factor	SCMT-CB	1	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	1.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	16.92	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	0.51	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
SHT	Surface Hole Temperature	Borehole	68	degF

Depth Zone Parameters				
Parameter	Value	Start ( ft )	Stop ( ft )	
MCI	14.81	1850	2987.6	
MCI	1.25	2987.6	11772.17	
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-E	0 dB	

ONE				
RST SIGMA MAIN PASS [5:100]				

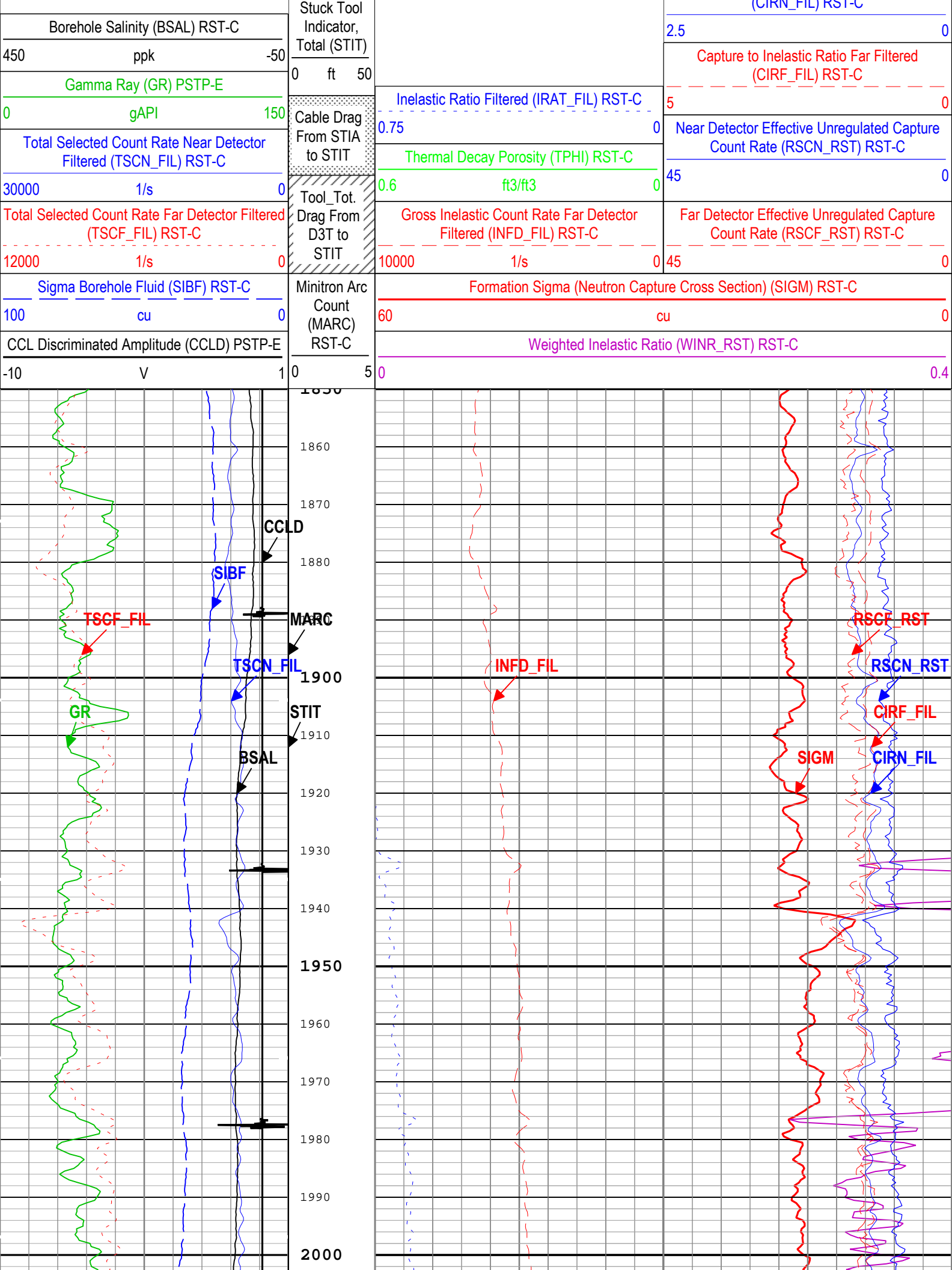
Software Version				
Acquisition System			Version	
Maxwell 2018 SP2			8.2.104493.3100	
Application Patch			Wireline_Hotfix-Mandatory-2018.2_8.2.108371	

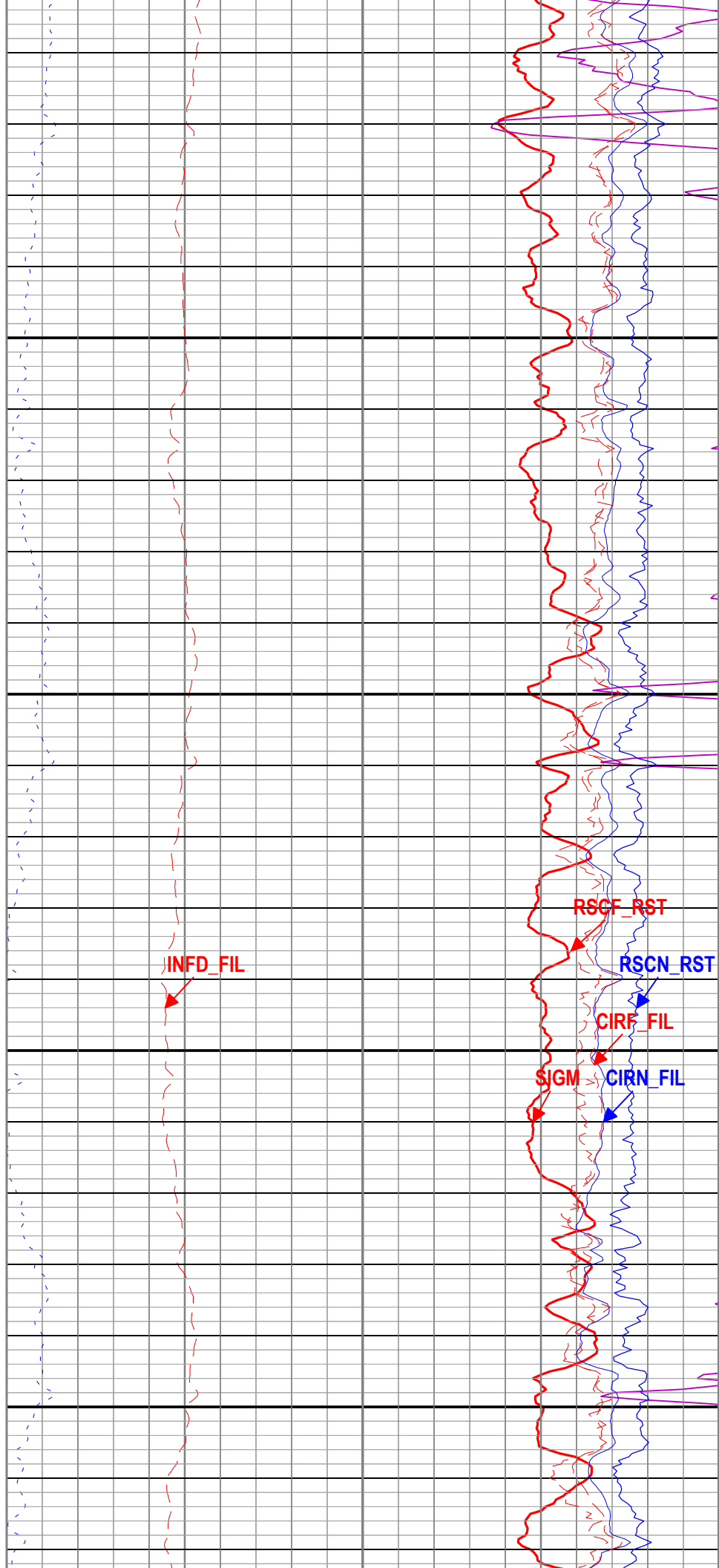
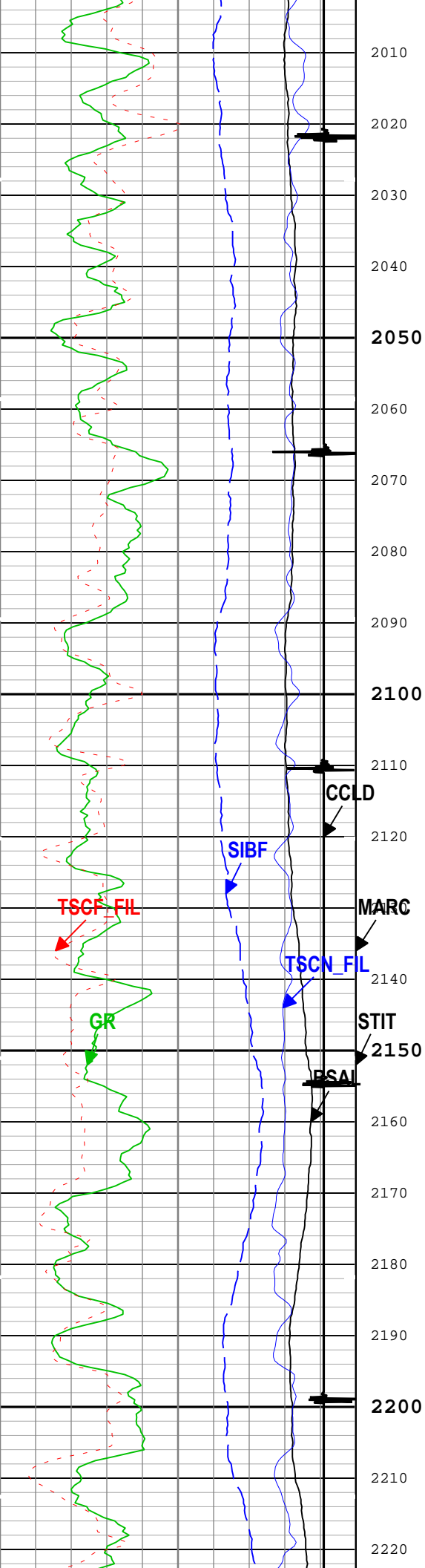
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	1855.61 ft	11772.19 ft	09-Mar-2019 6:51:19 AM	09-Mar-2019 12:28:14 PM	ON	6.01 ft	No
All depths are referenced to toolstring zero									

Log	Company:CAERUS OIL & GAS LLC	Well:NPR 24D-3 596
	ONE: Log[4]:Up:S004	

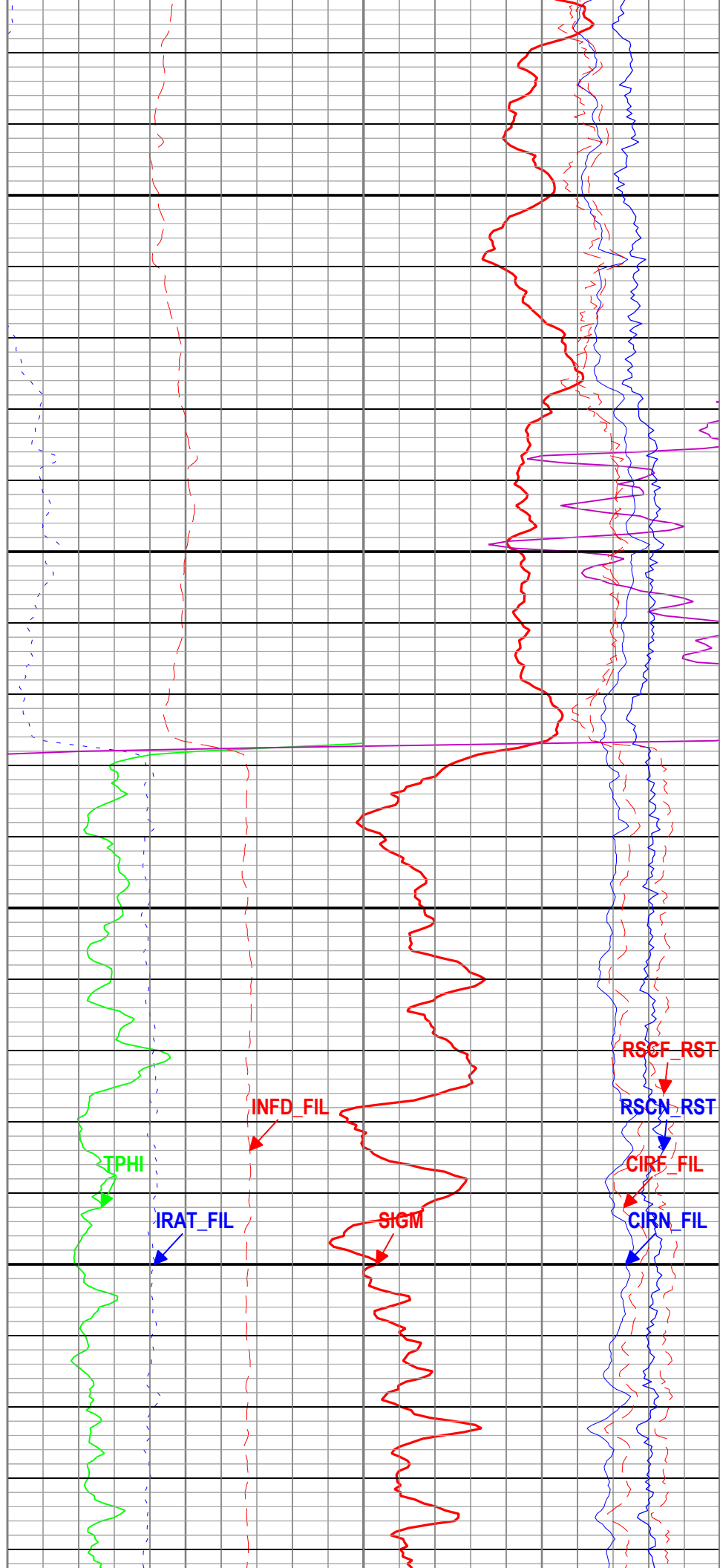
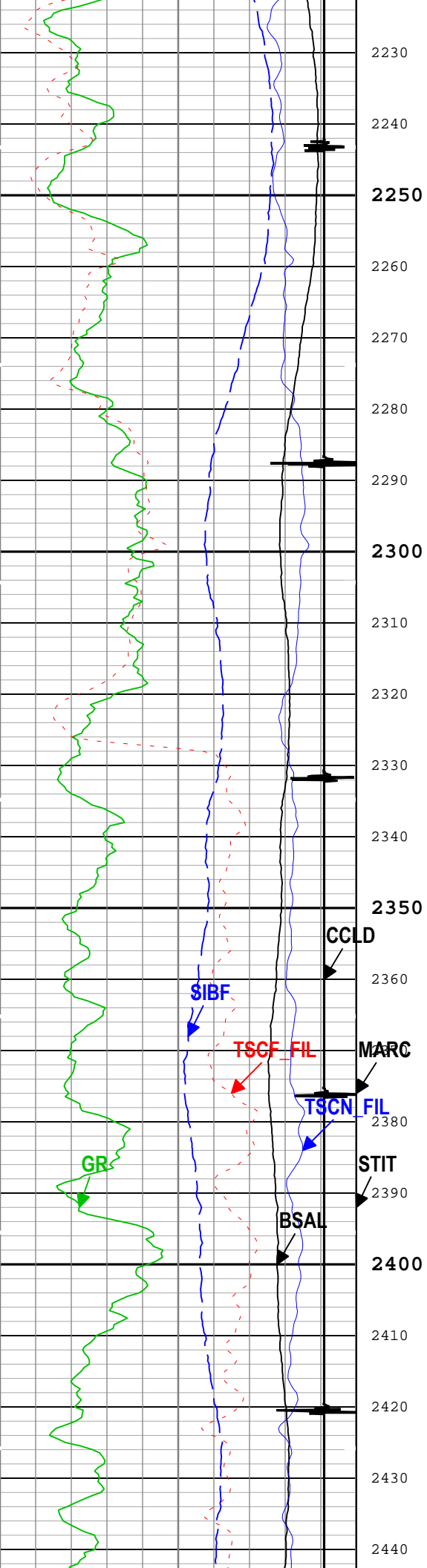
Description: RST SIGMA Answer    Format: Log ( RST SIGMA Answer )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 09-Mar-2019 13:04:24

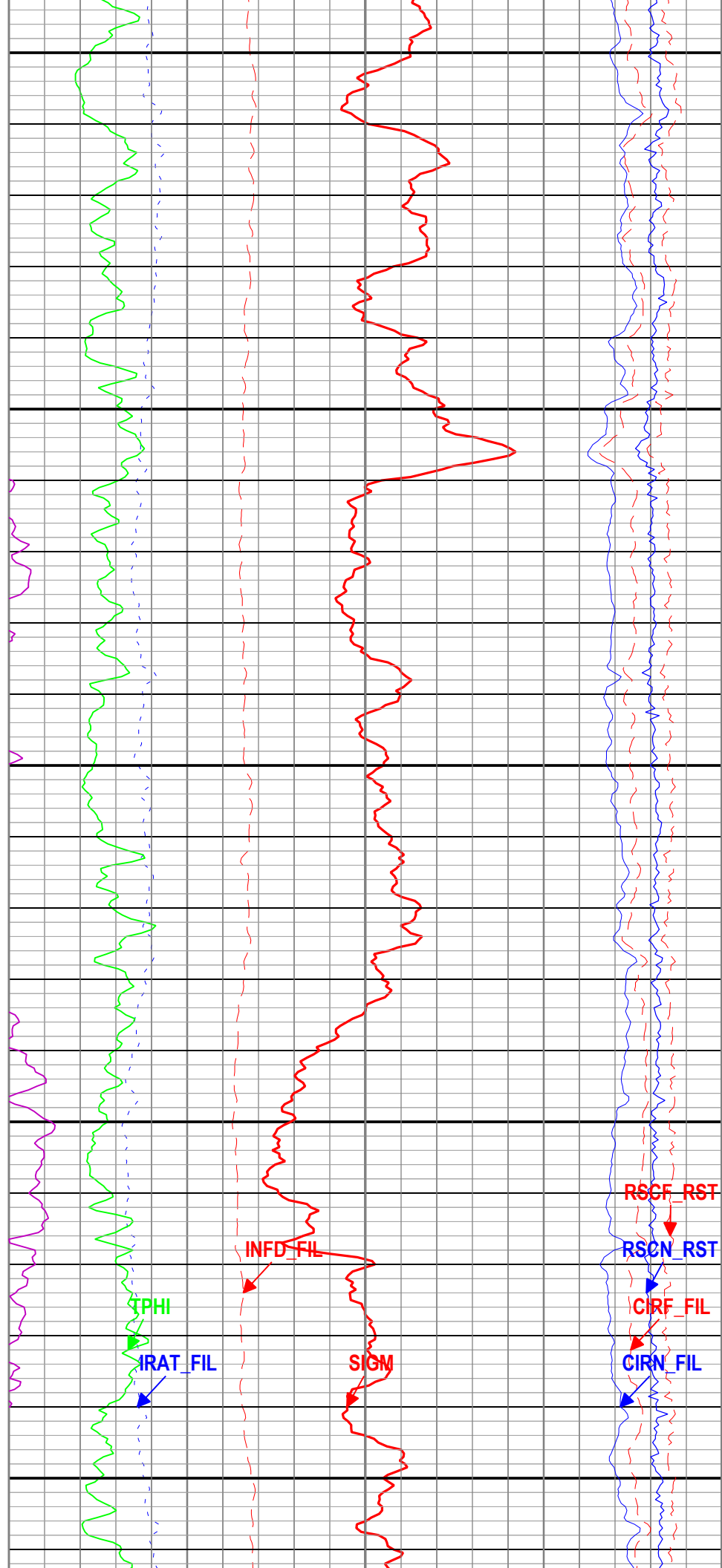
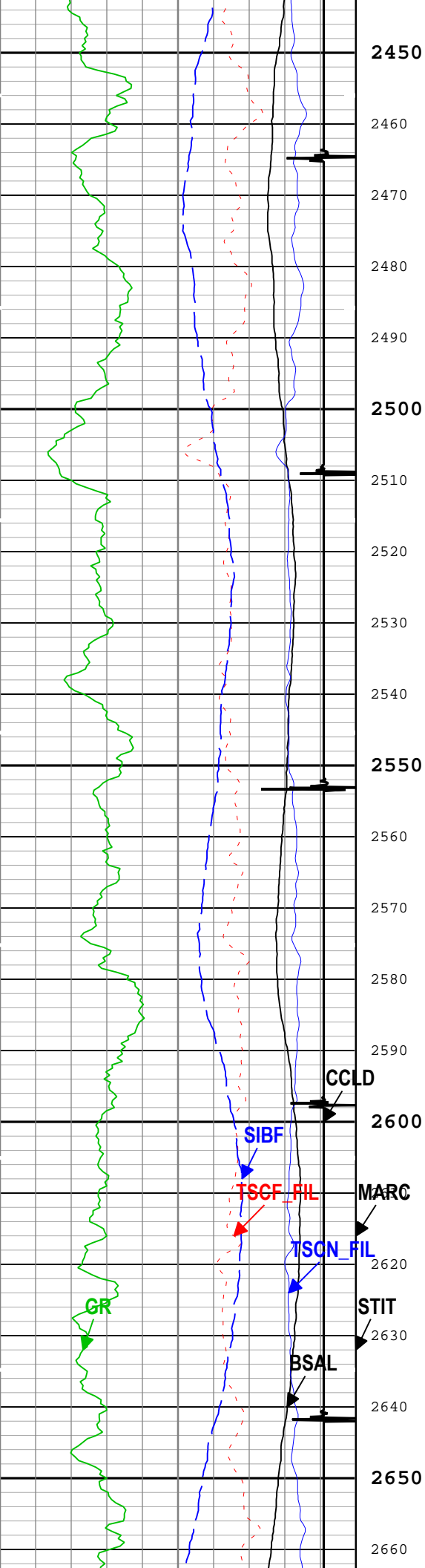
TIME_1900 - Time Marked every 60.00 (s)				
<div> <div> <div>TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)</div> <div> <div> <div>—IHV - Integrated Hole Volume every 10.00 (ft3)</div> <div>—IHV - Integrated Hole Volume every 100.00 (ft3)</div> <div>—ICV - Integrated Cement Volume every 10.00 (ft3)</div> <div>—ICV - Integrated Cement Volume every 100.00 (ft3)</div> </div> </div> </div> </div>				
			<div>Capture to Inelastic Ratio Near Filtered (CIRN.FIL) RST C</div>	

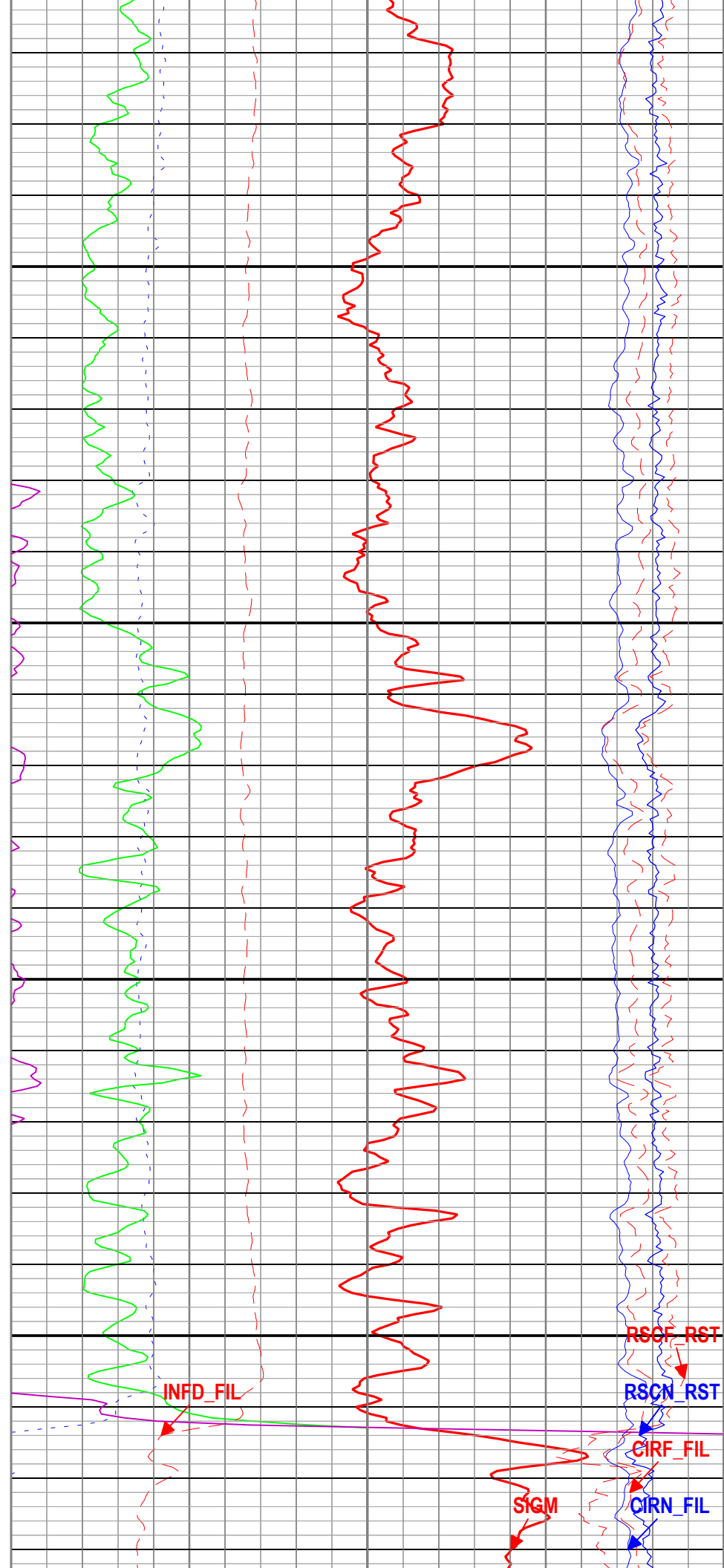
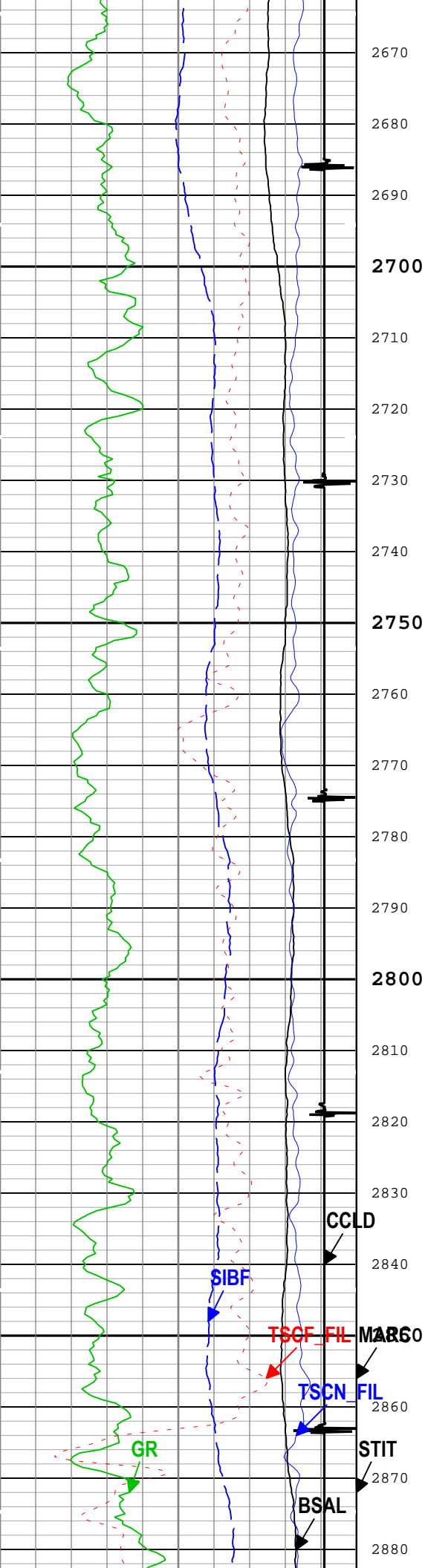




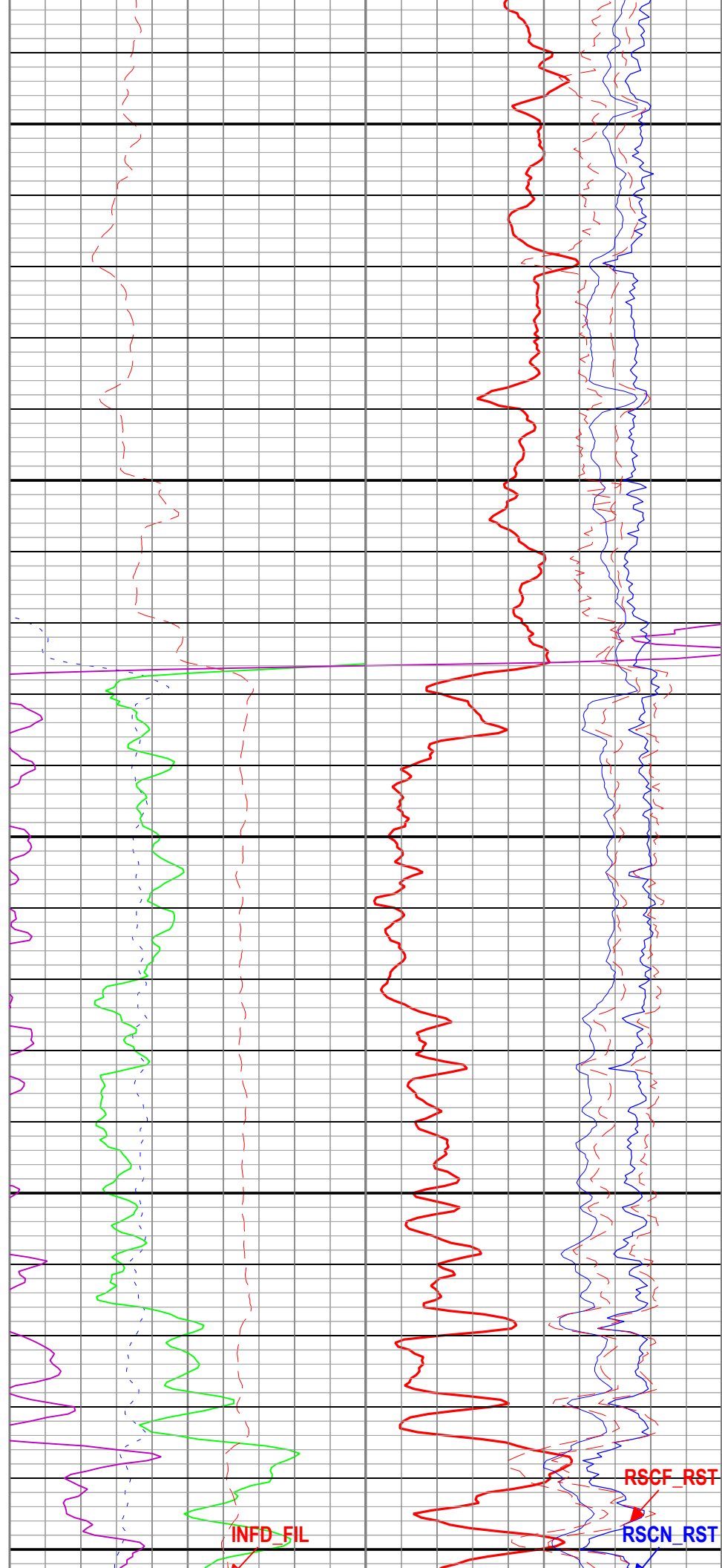
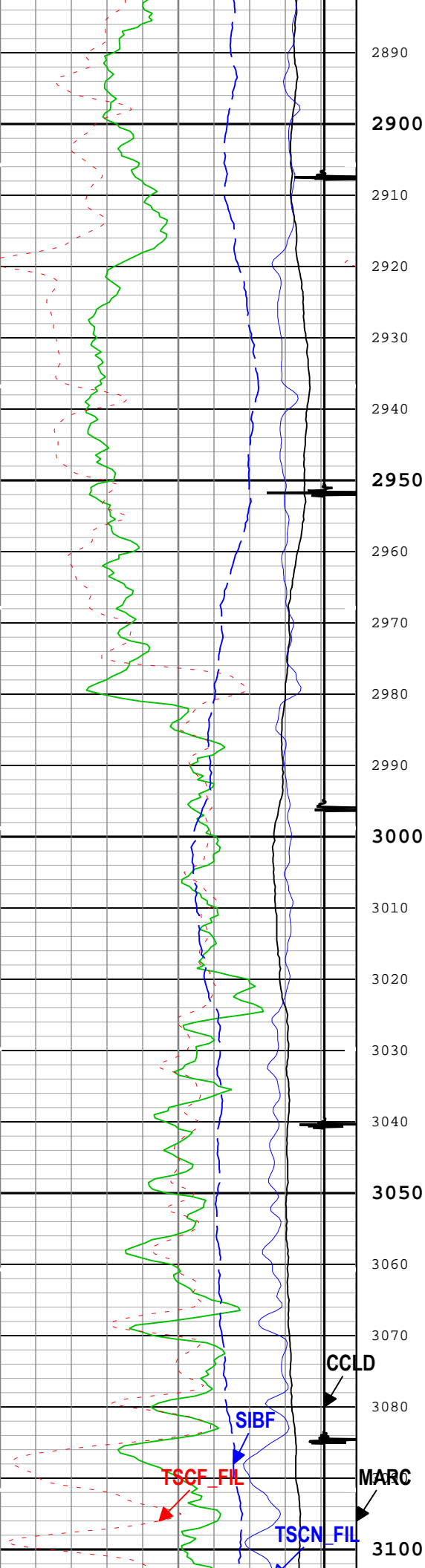


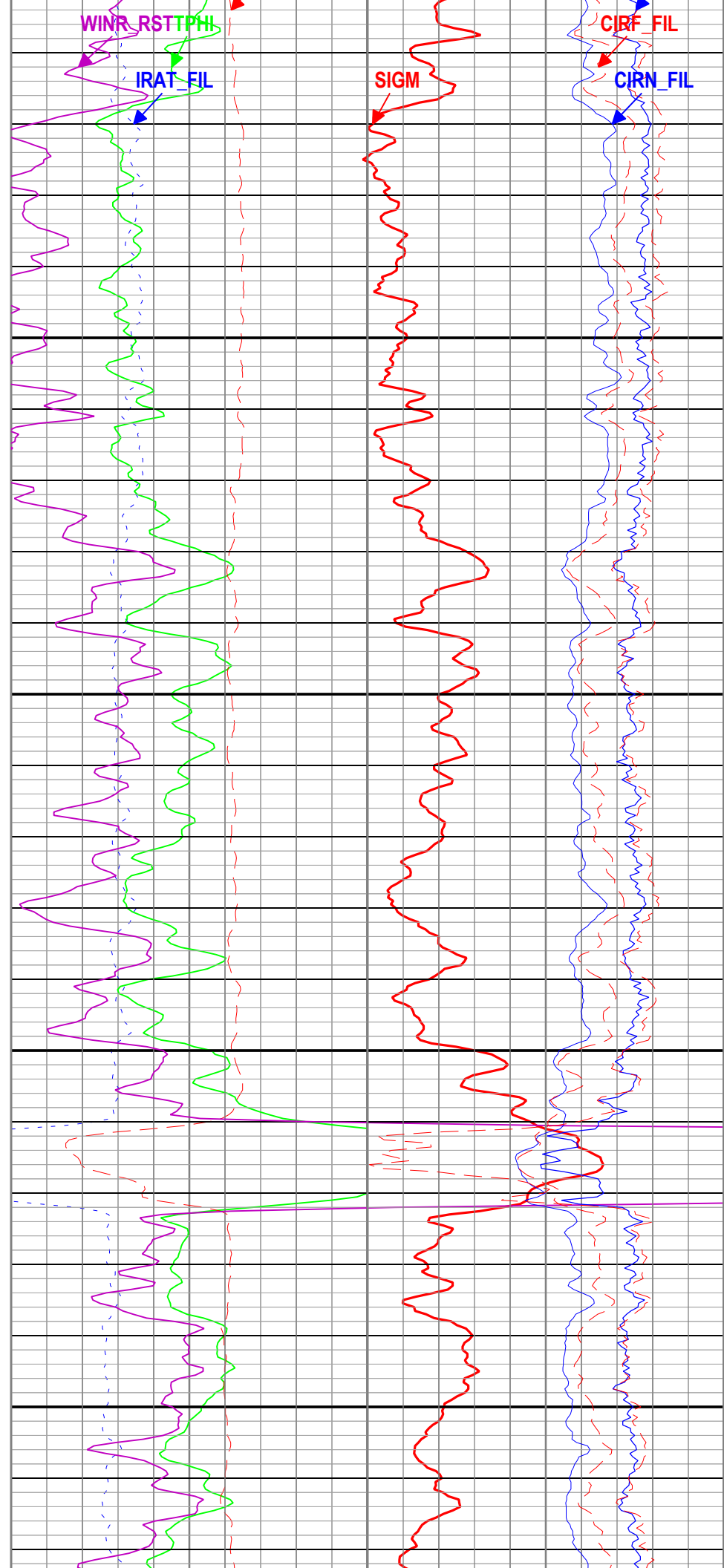
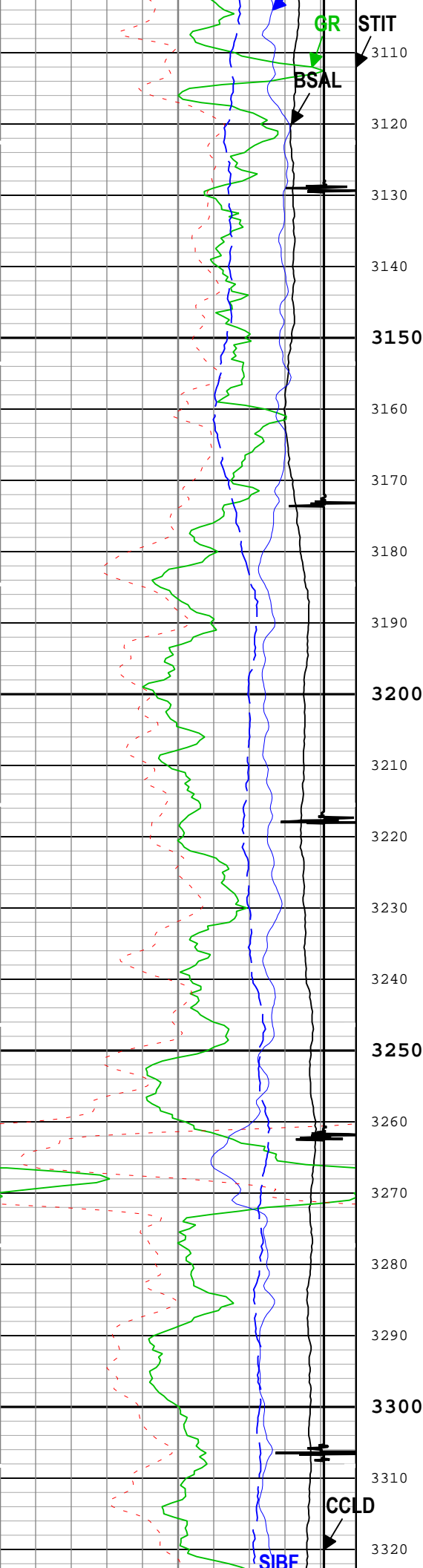


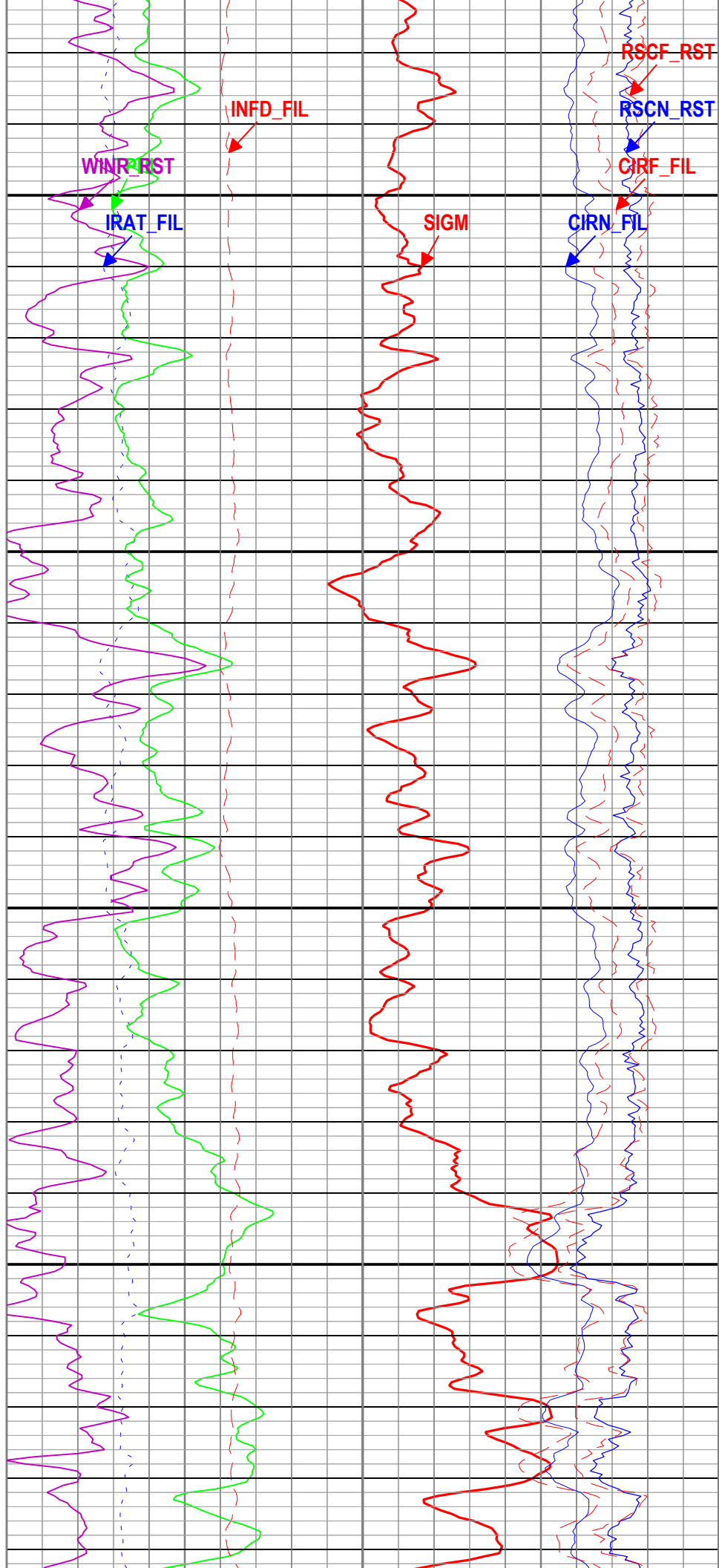
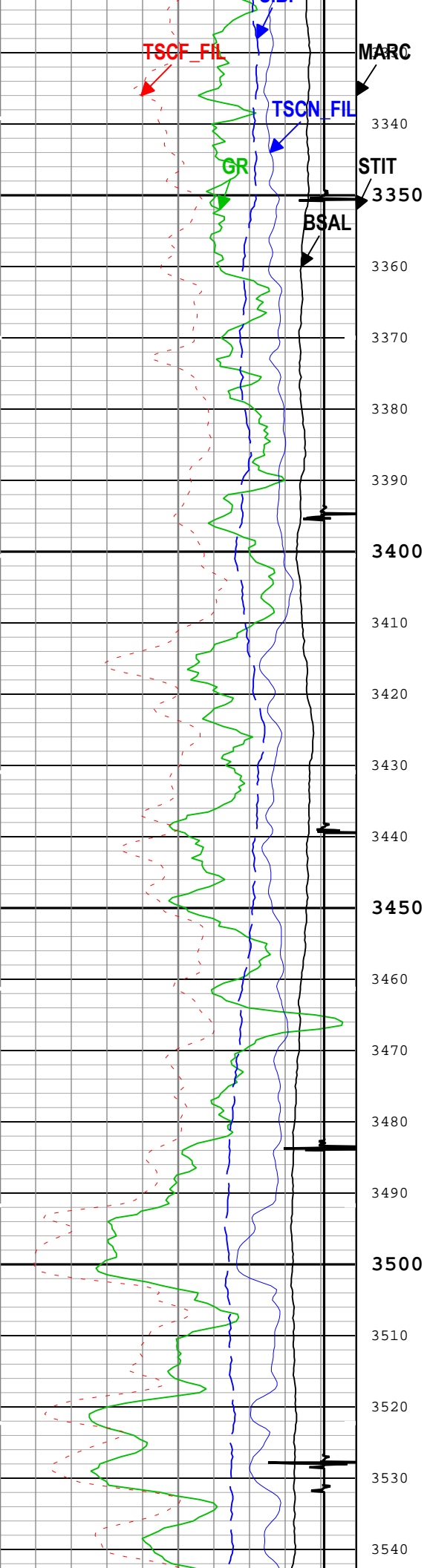




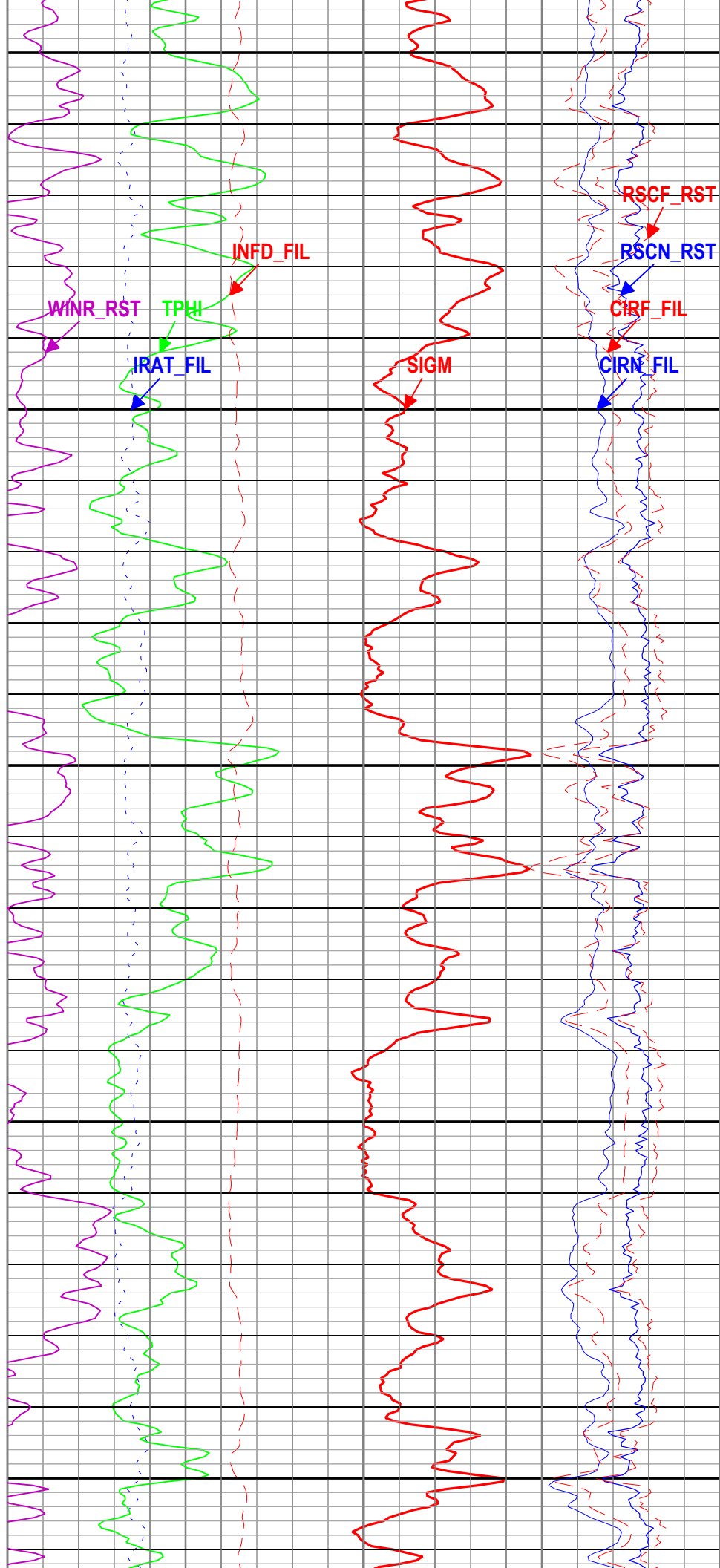
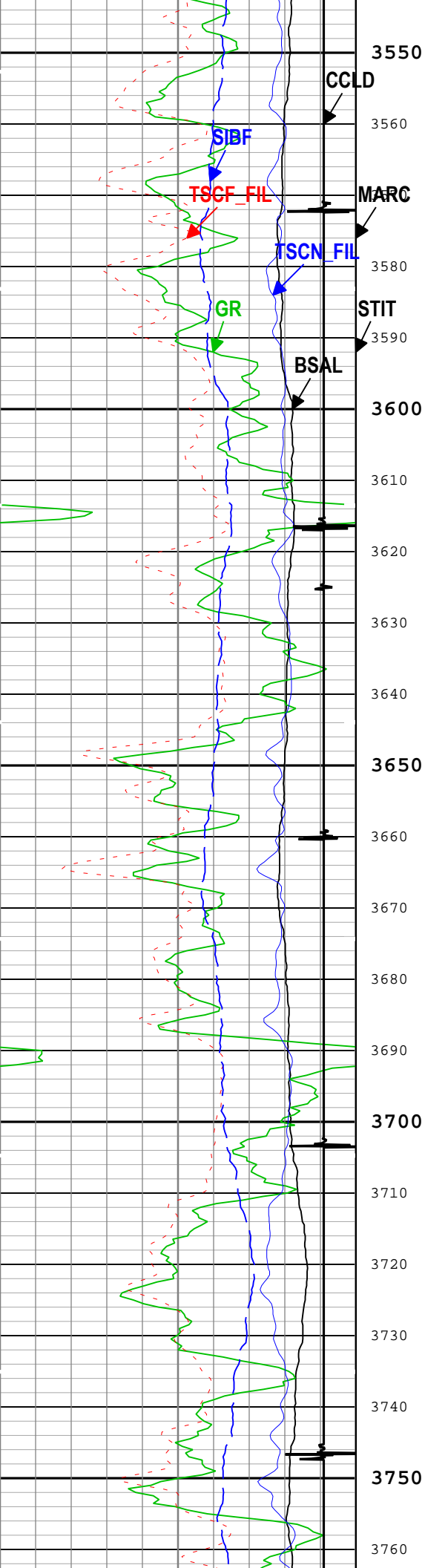


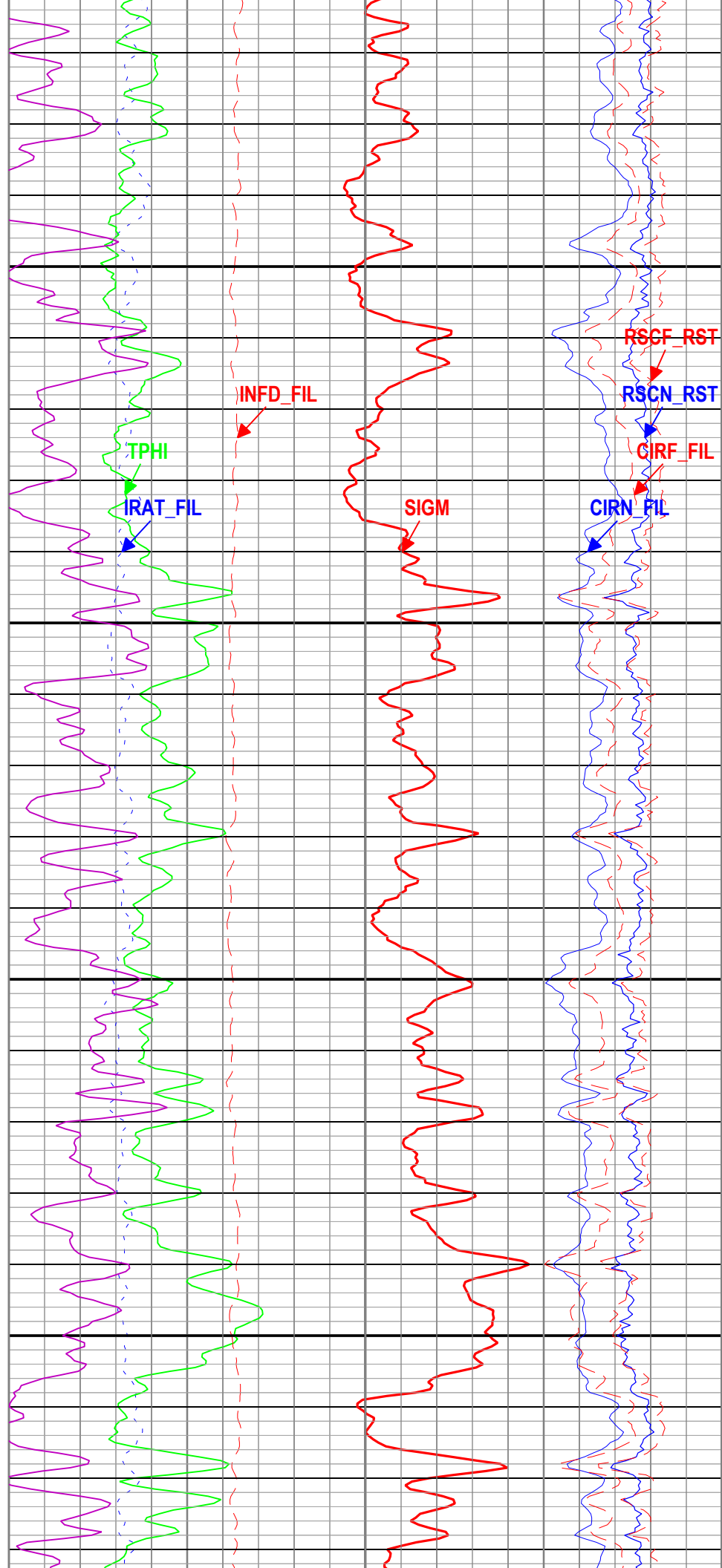
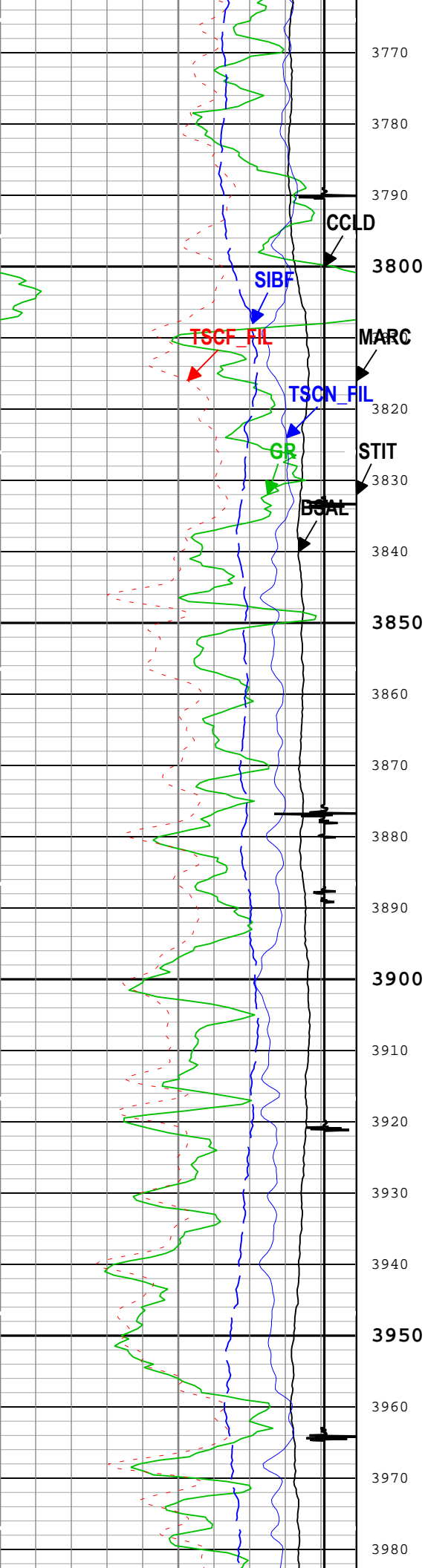


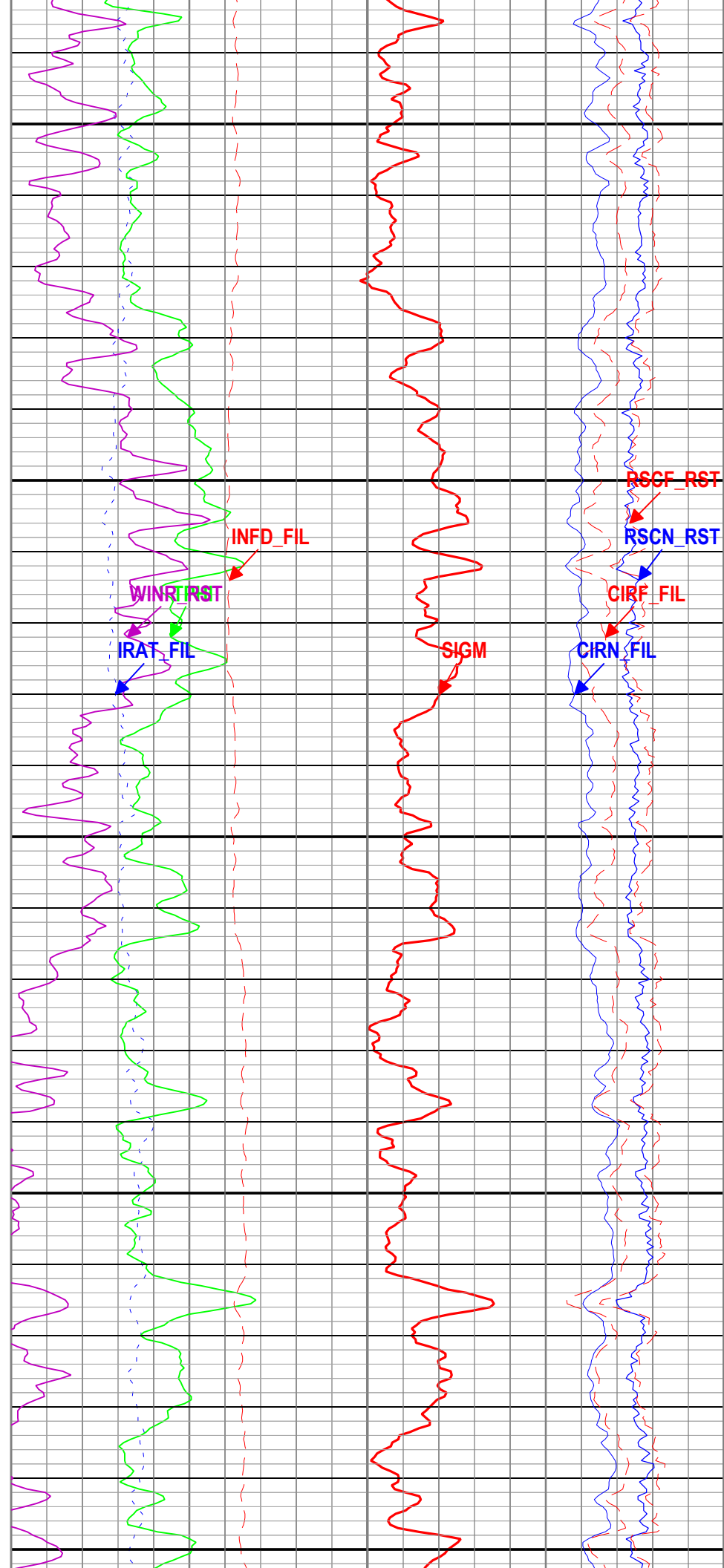
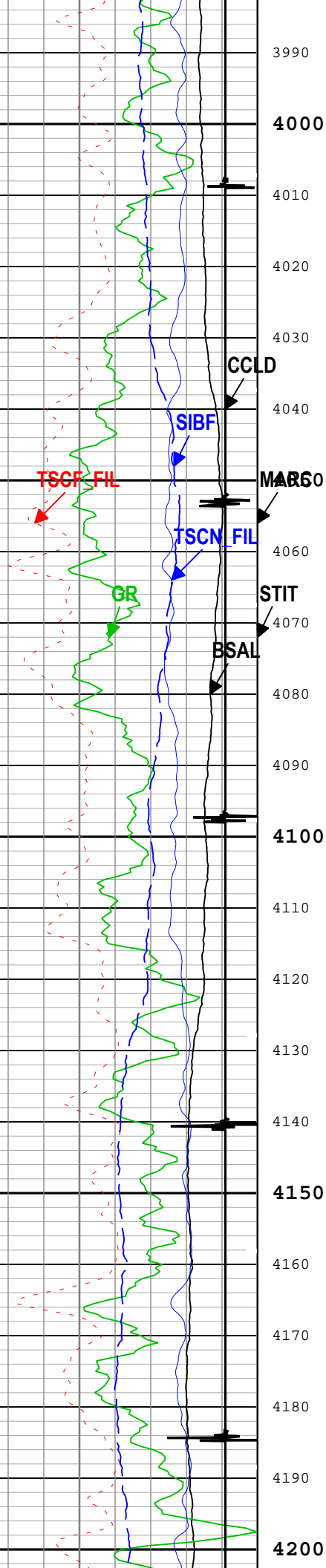




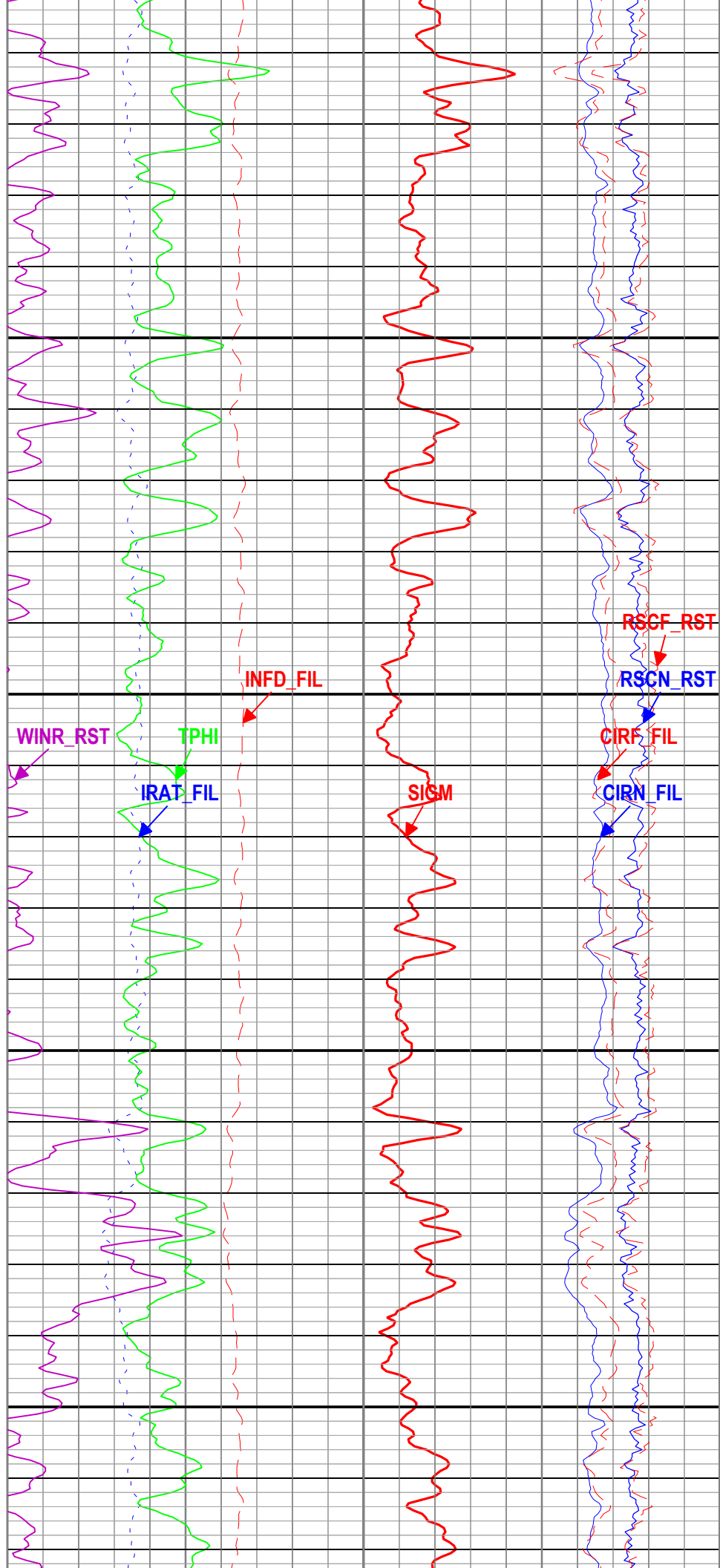
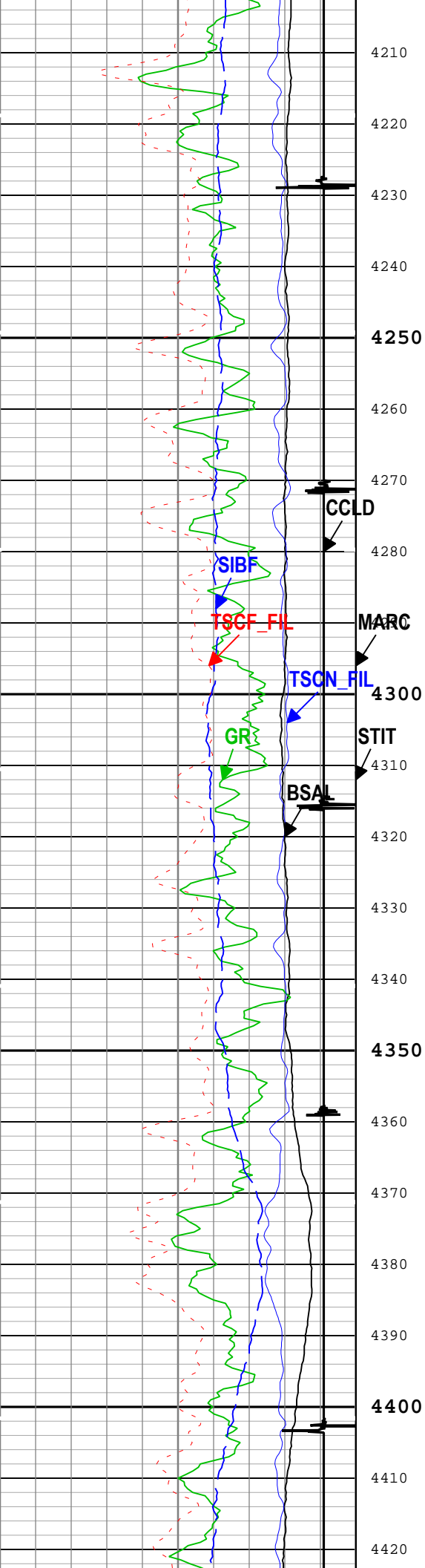


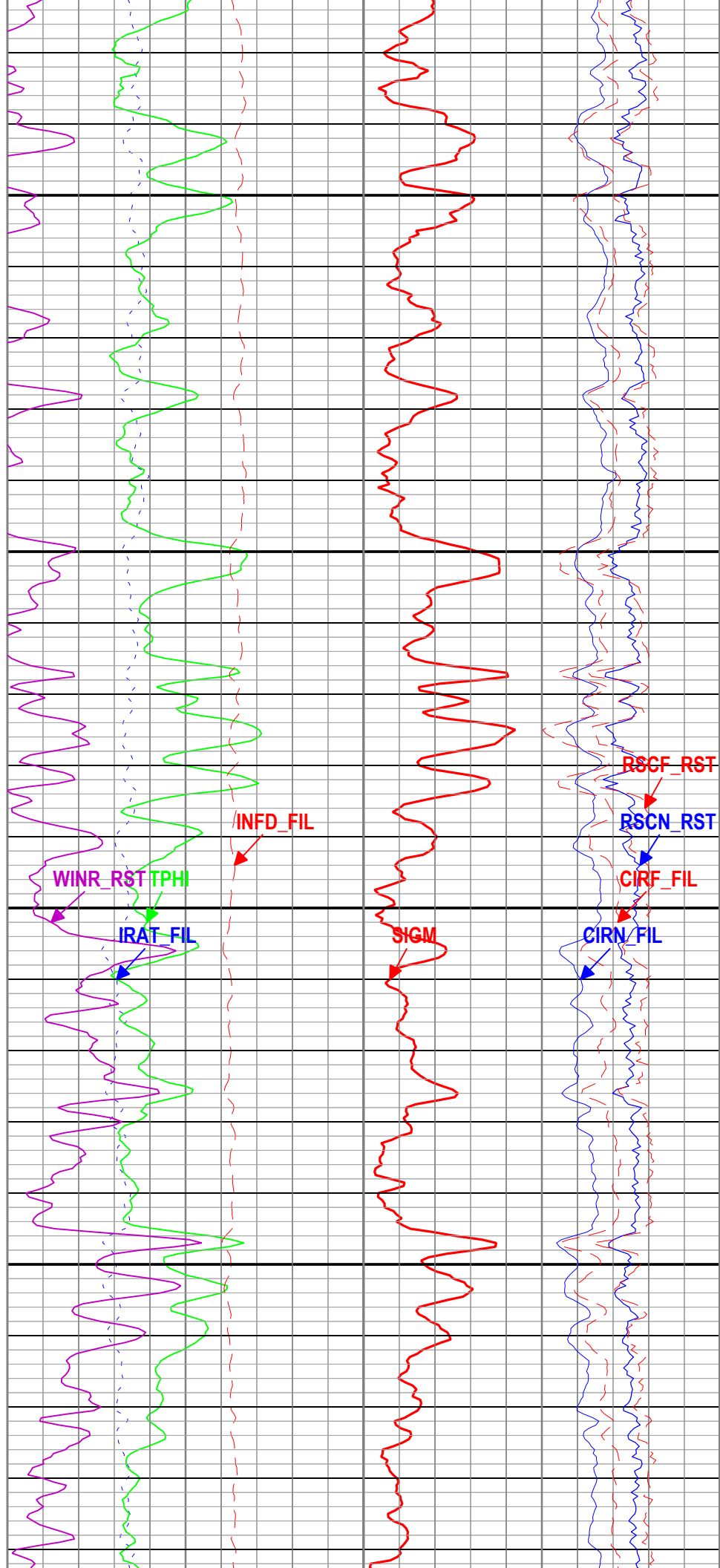
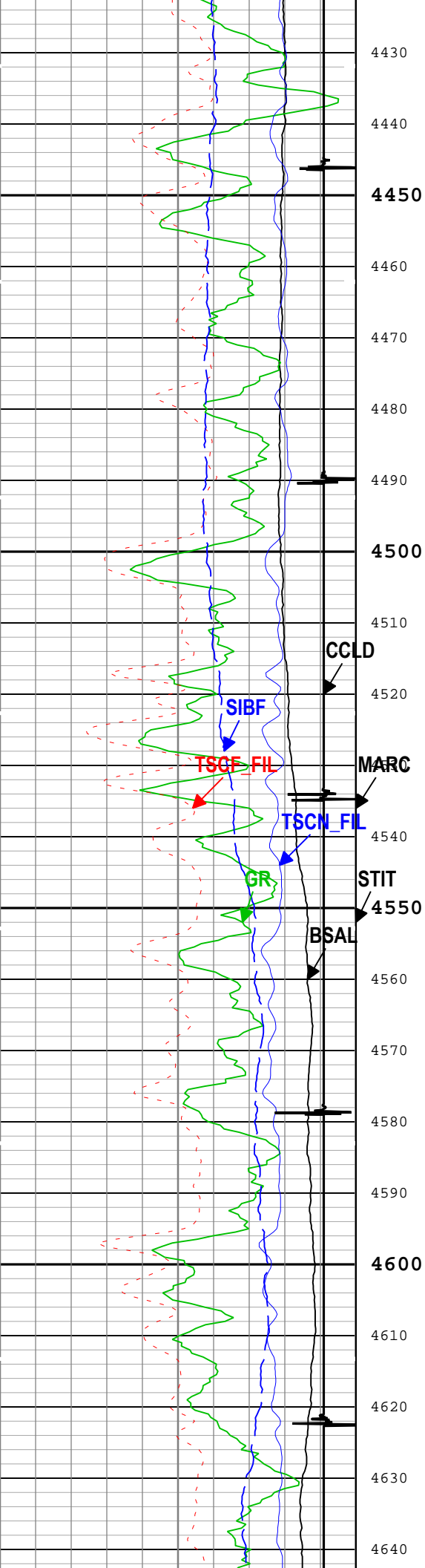


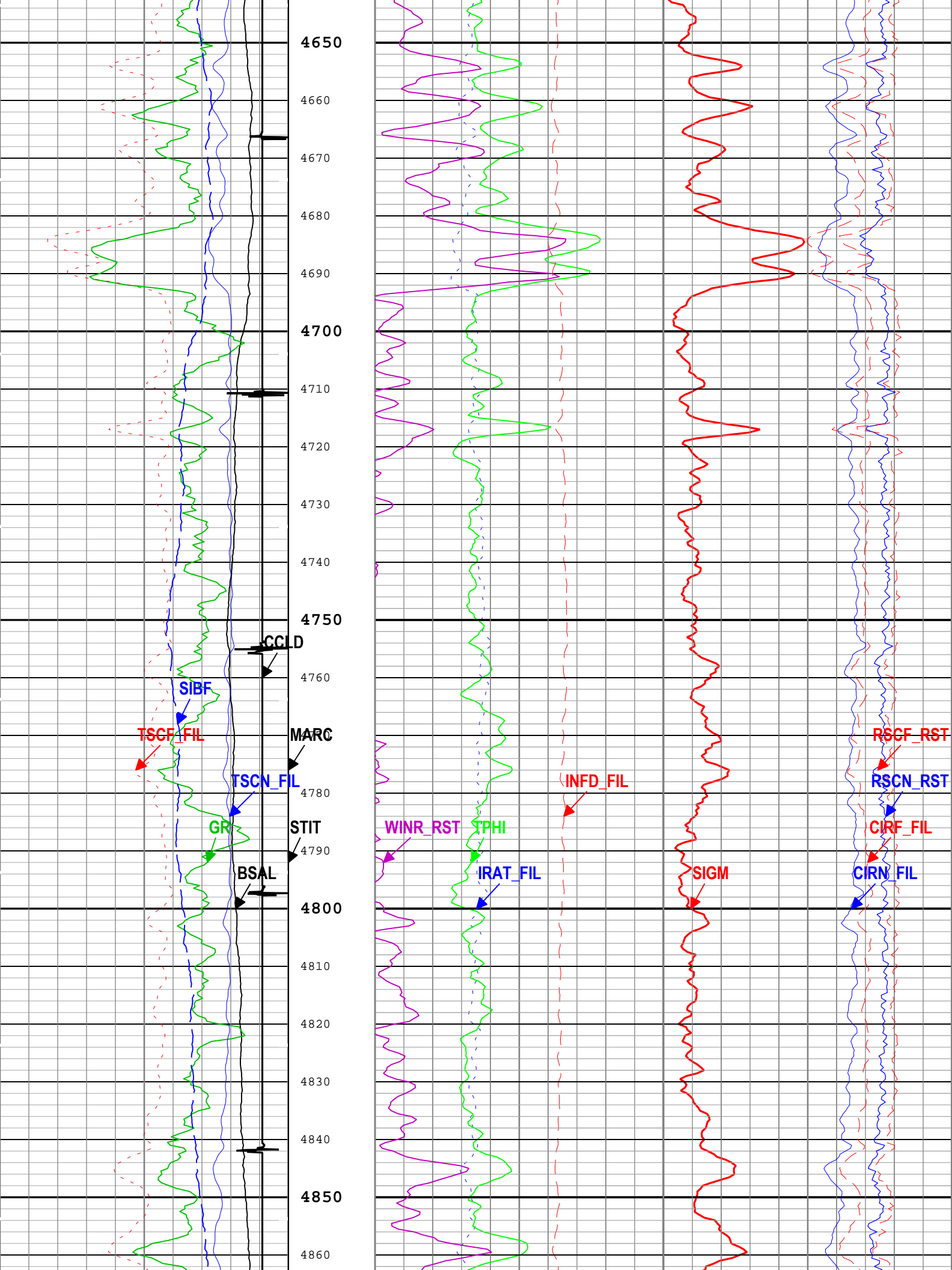




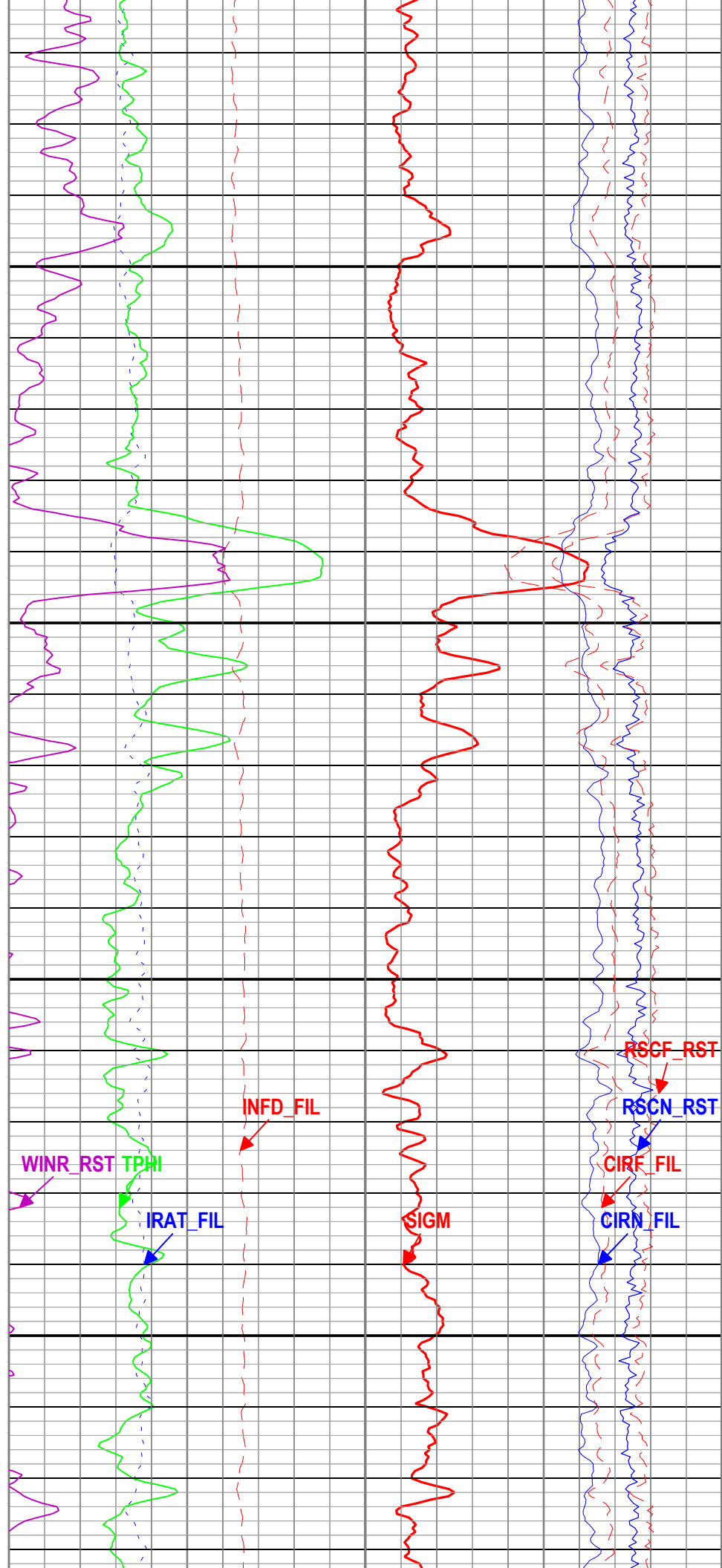
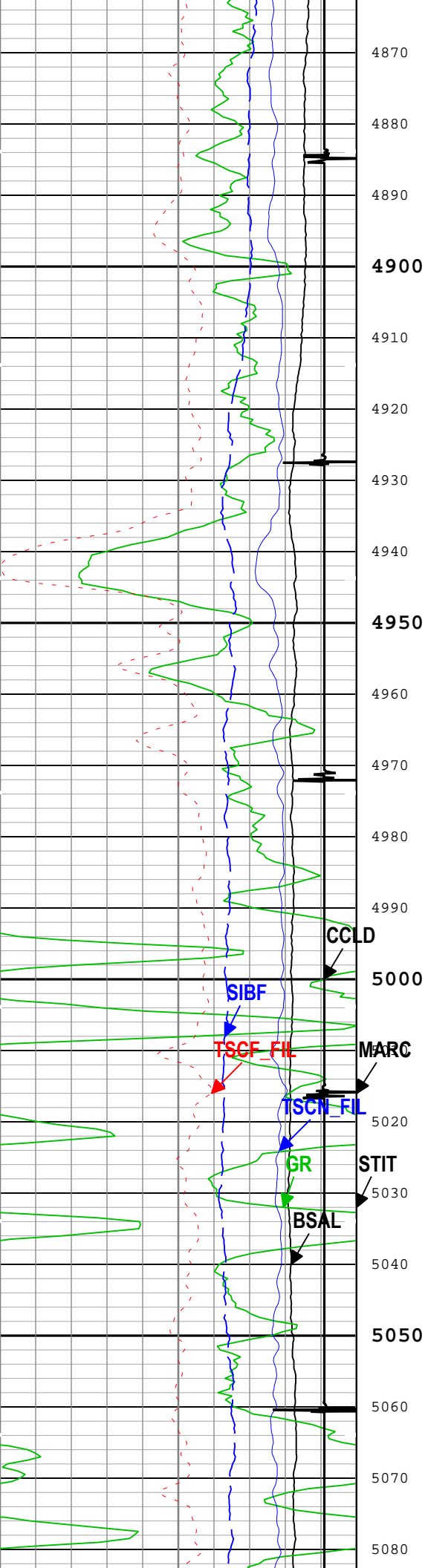


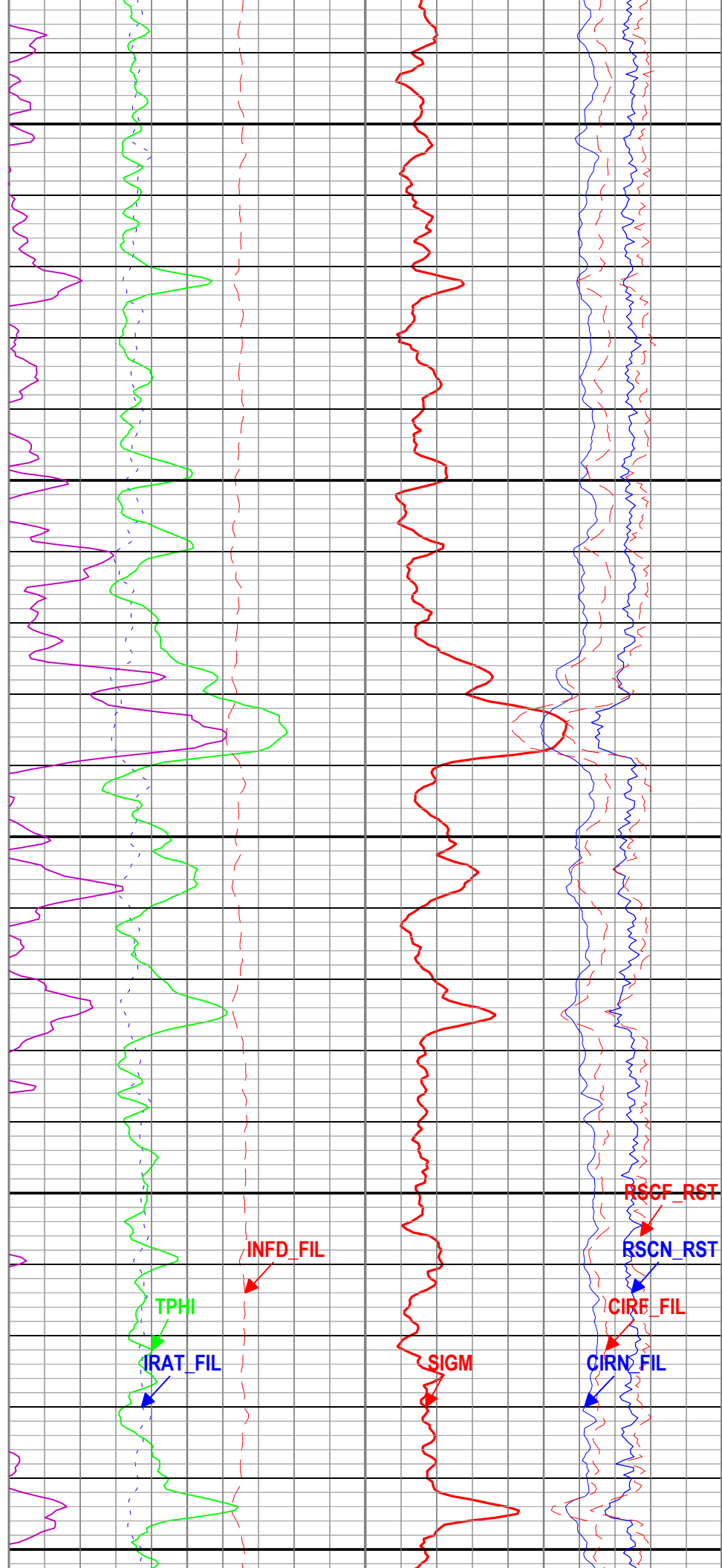
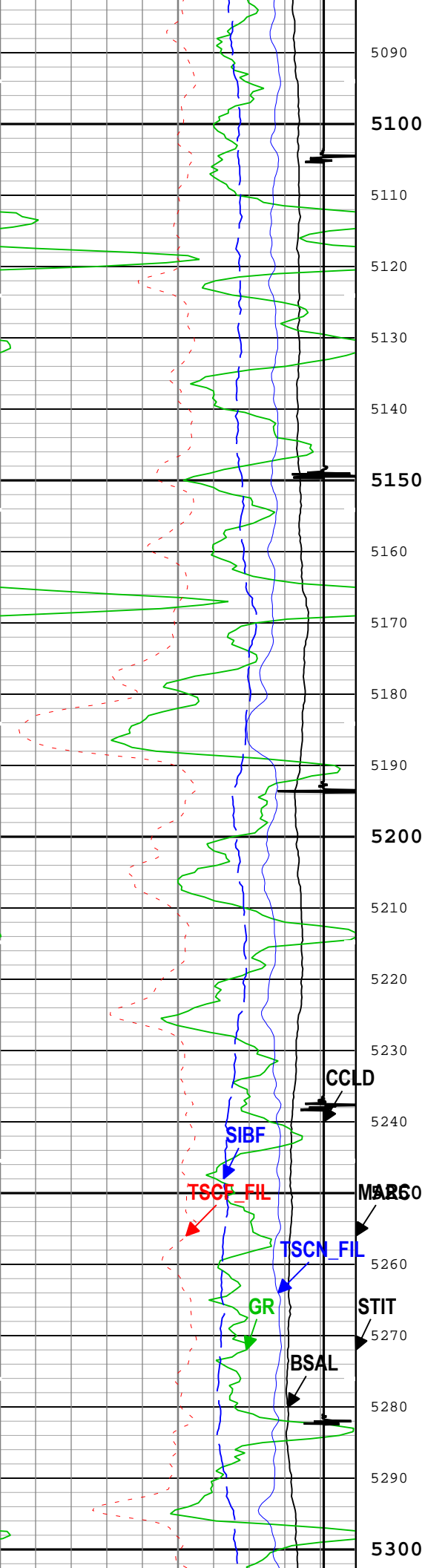


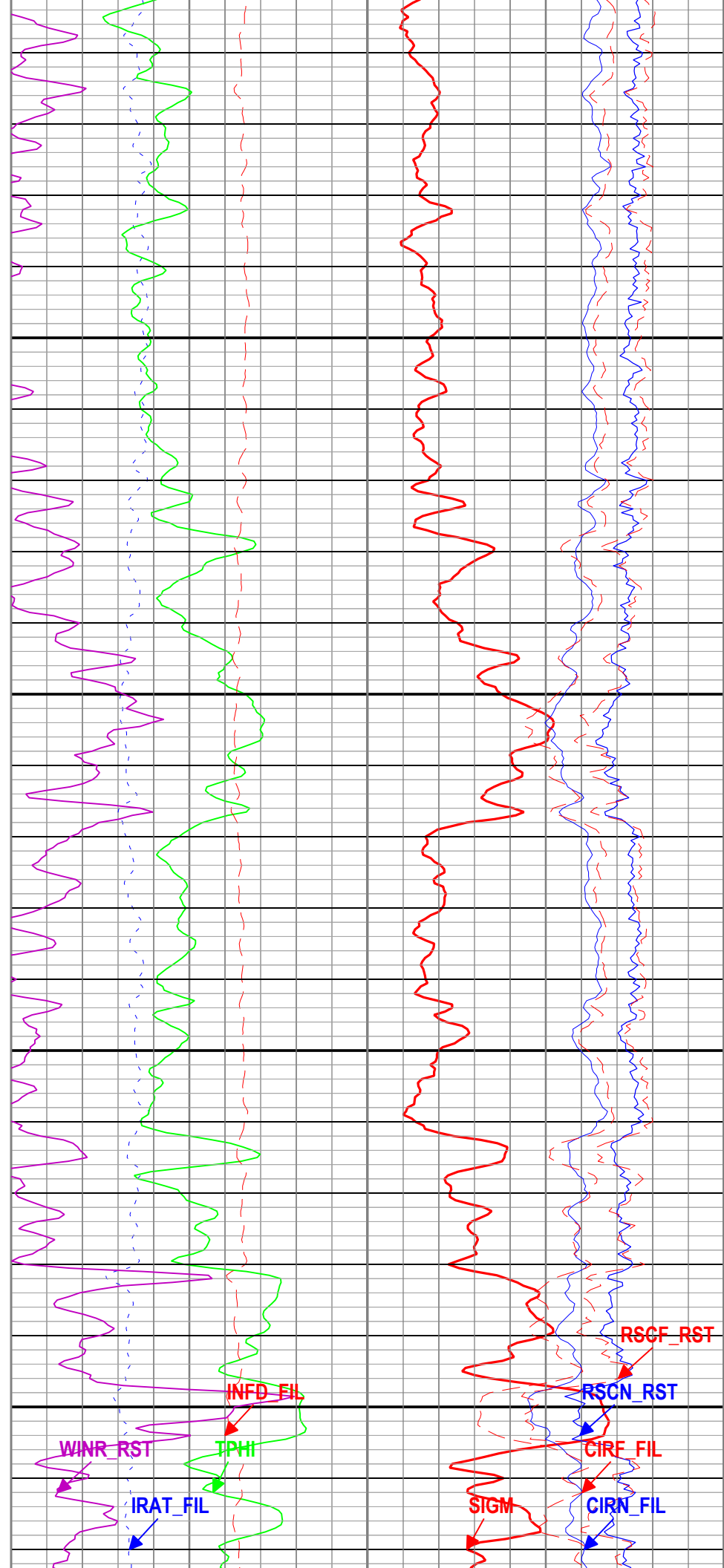
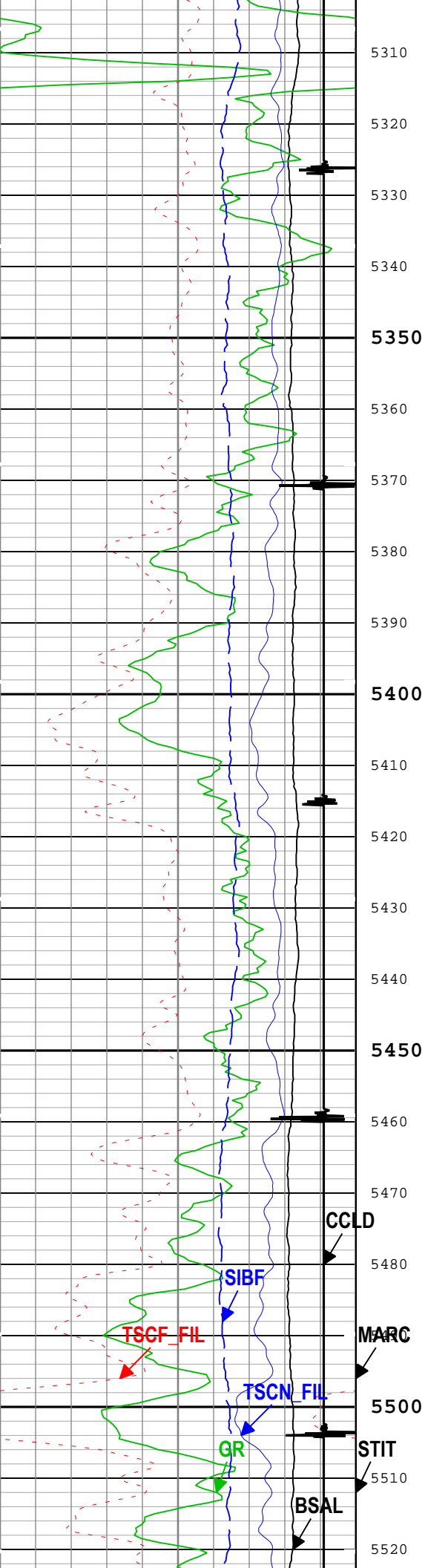




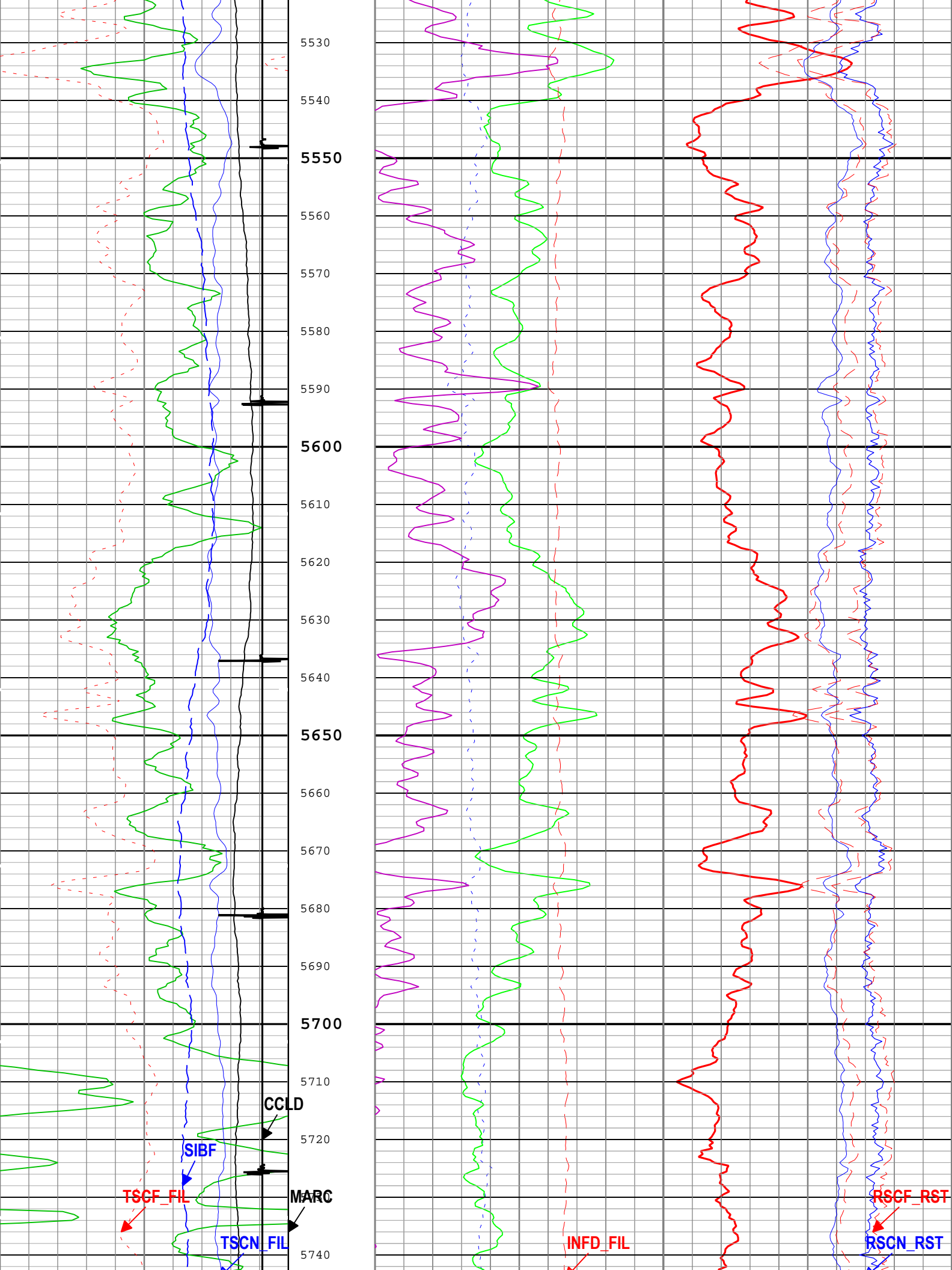


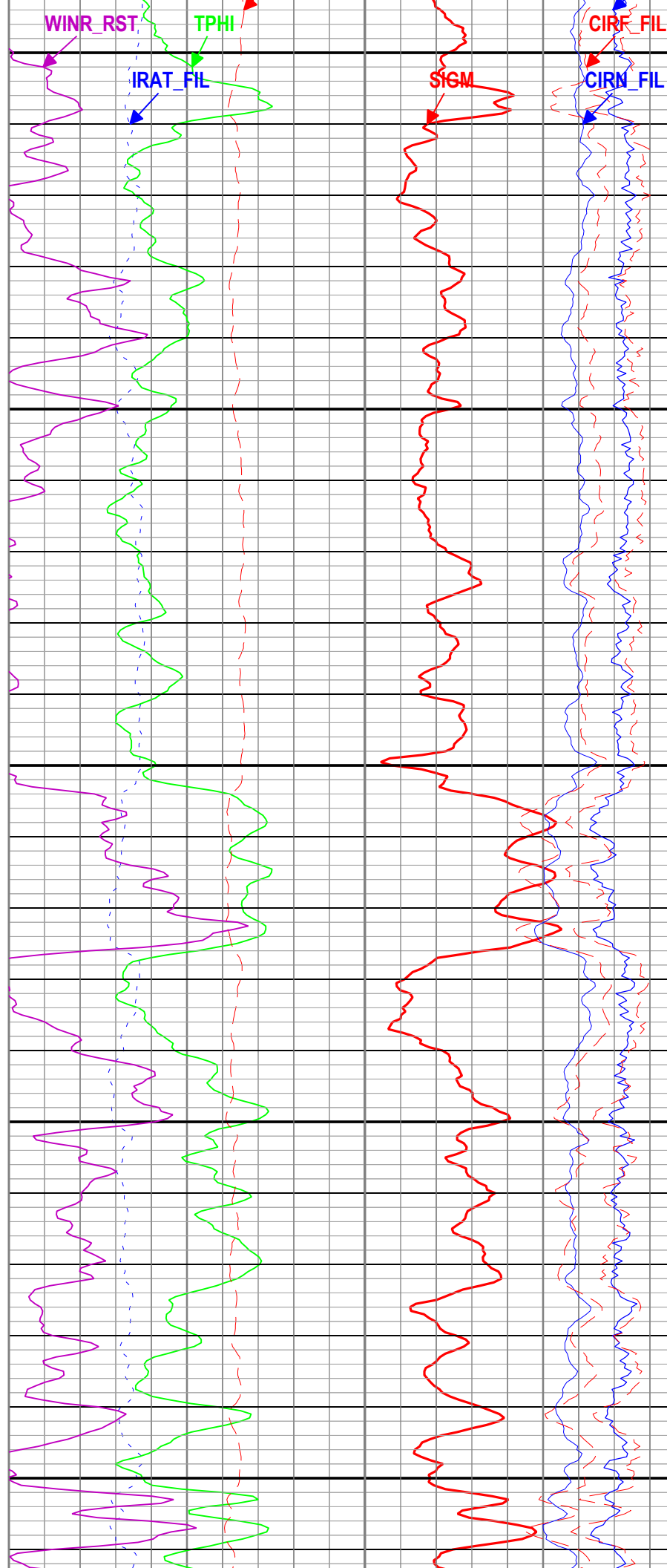
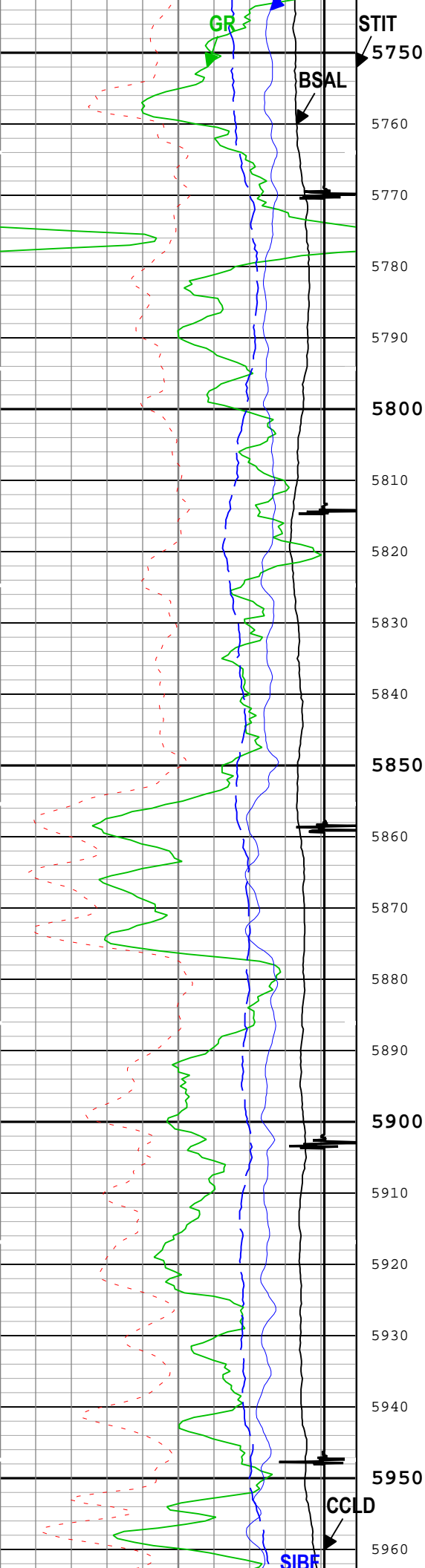


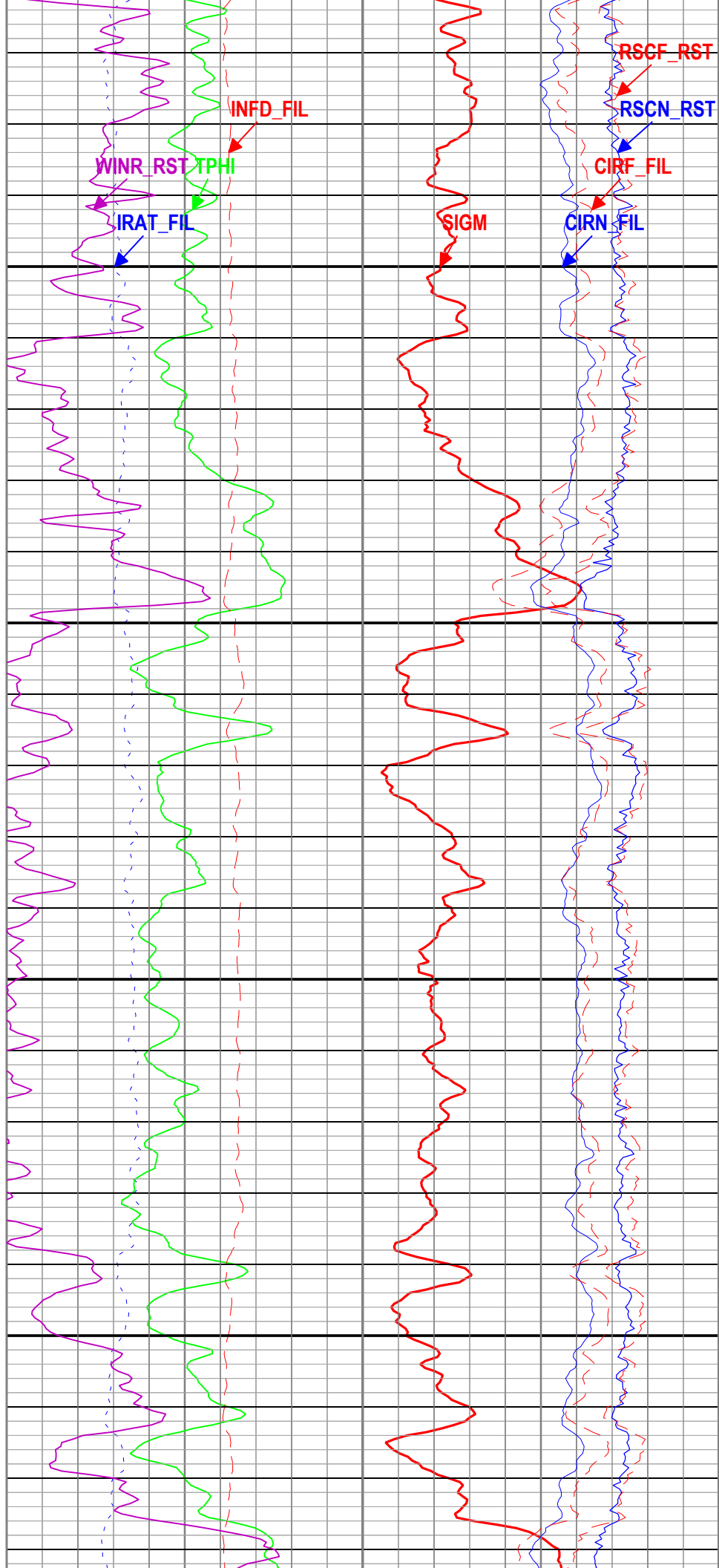
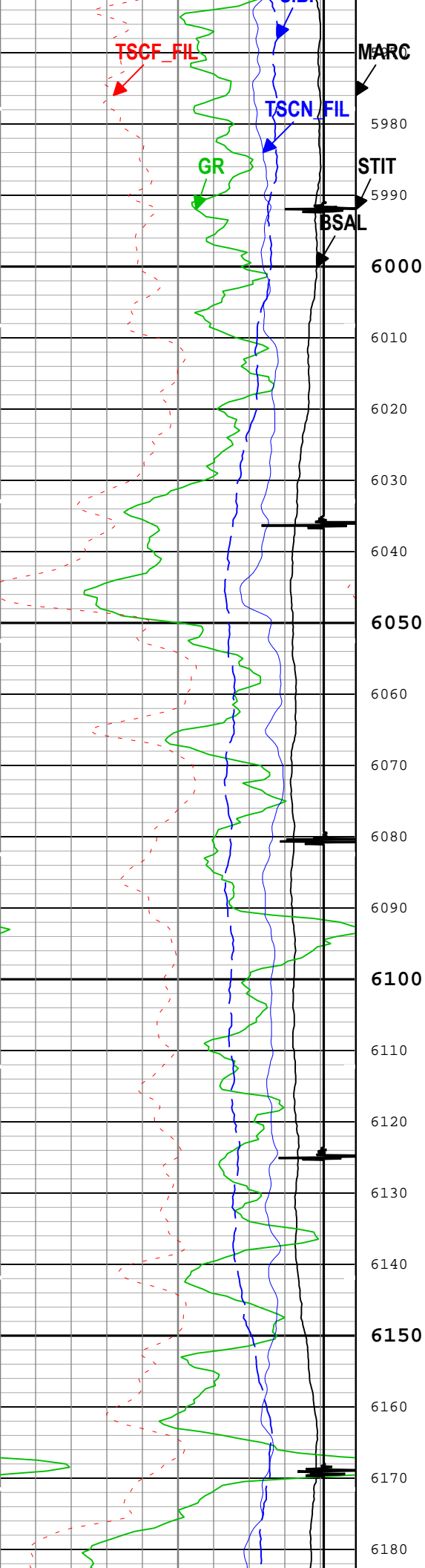


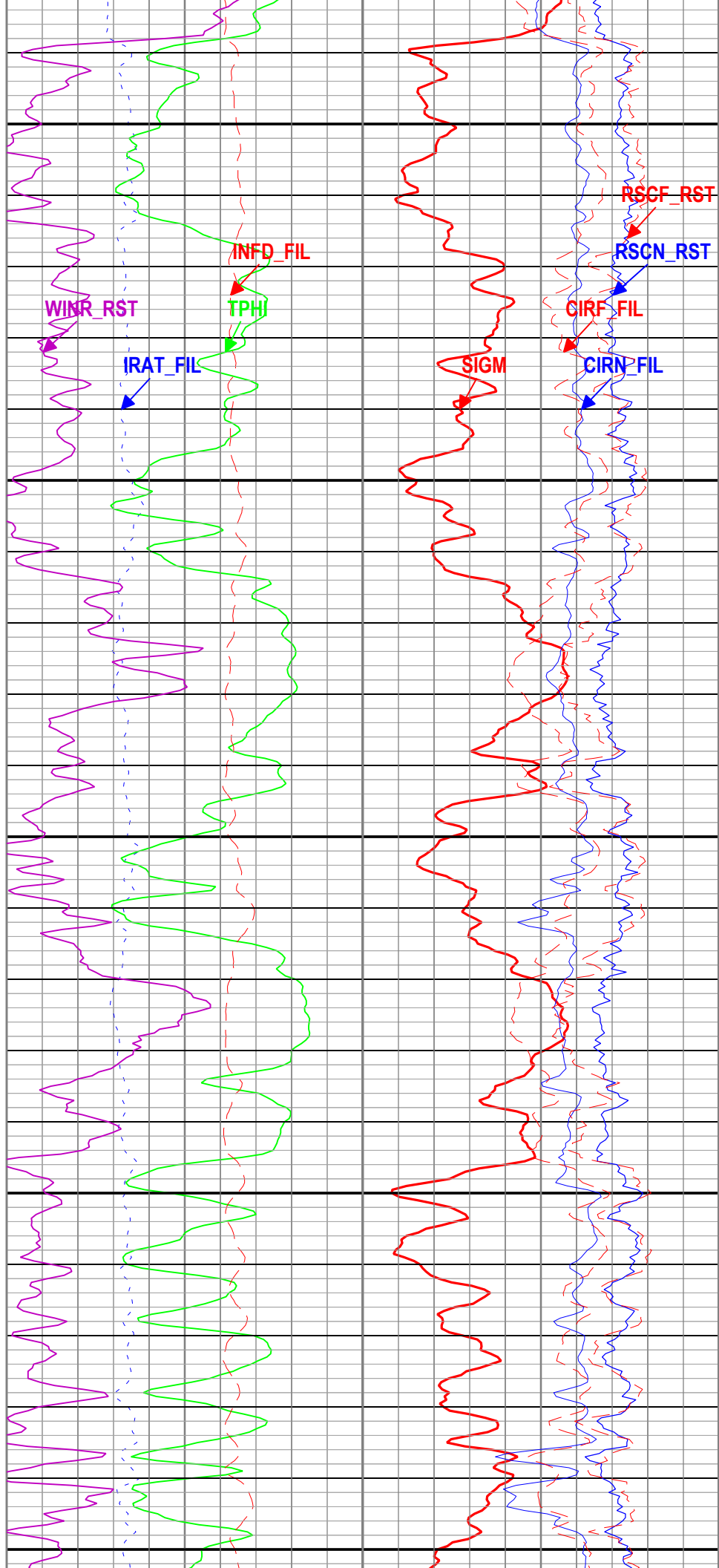
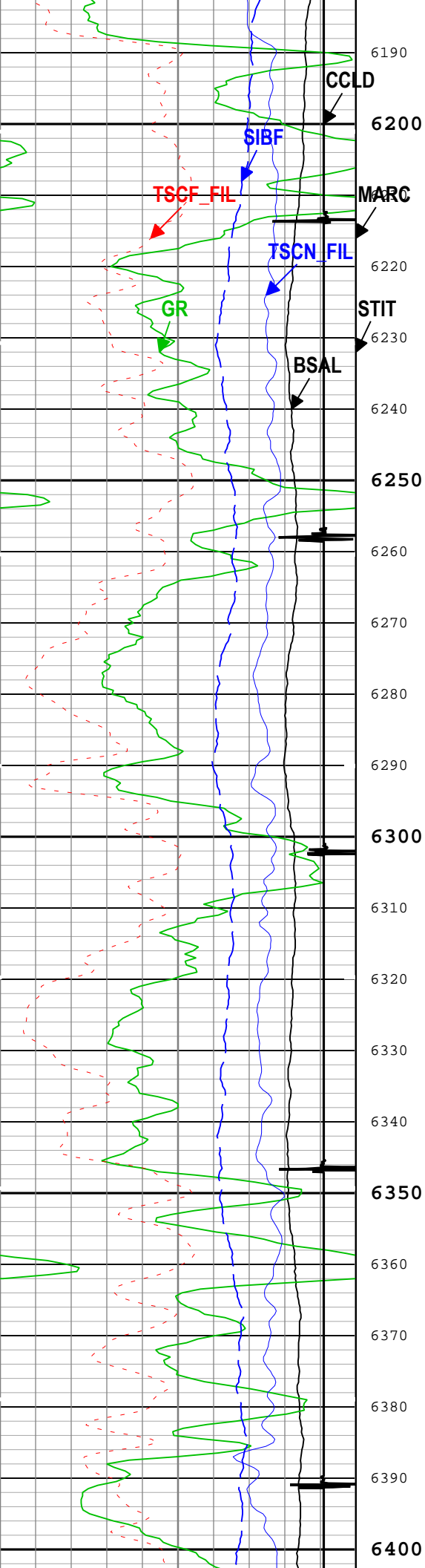




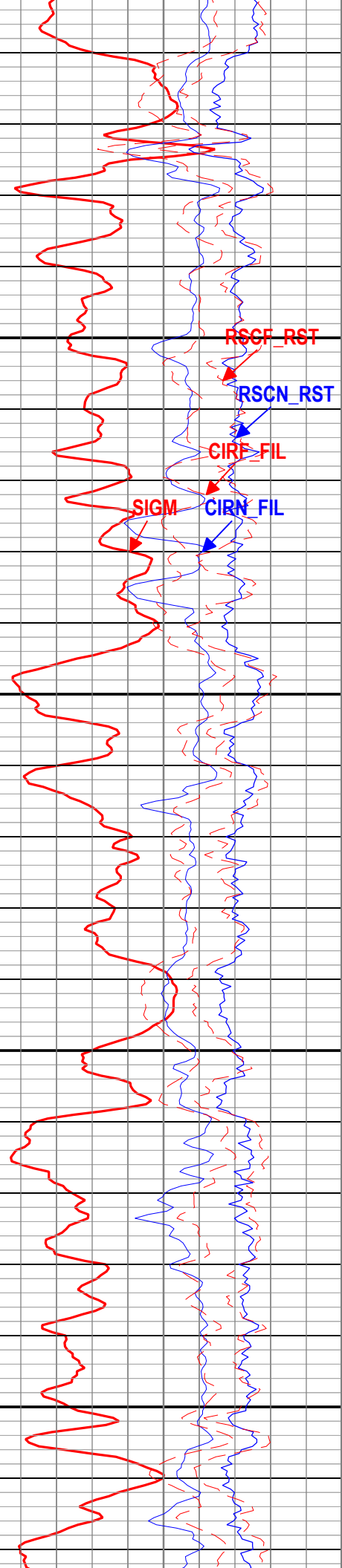
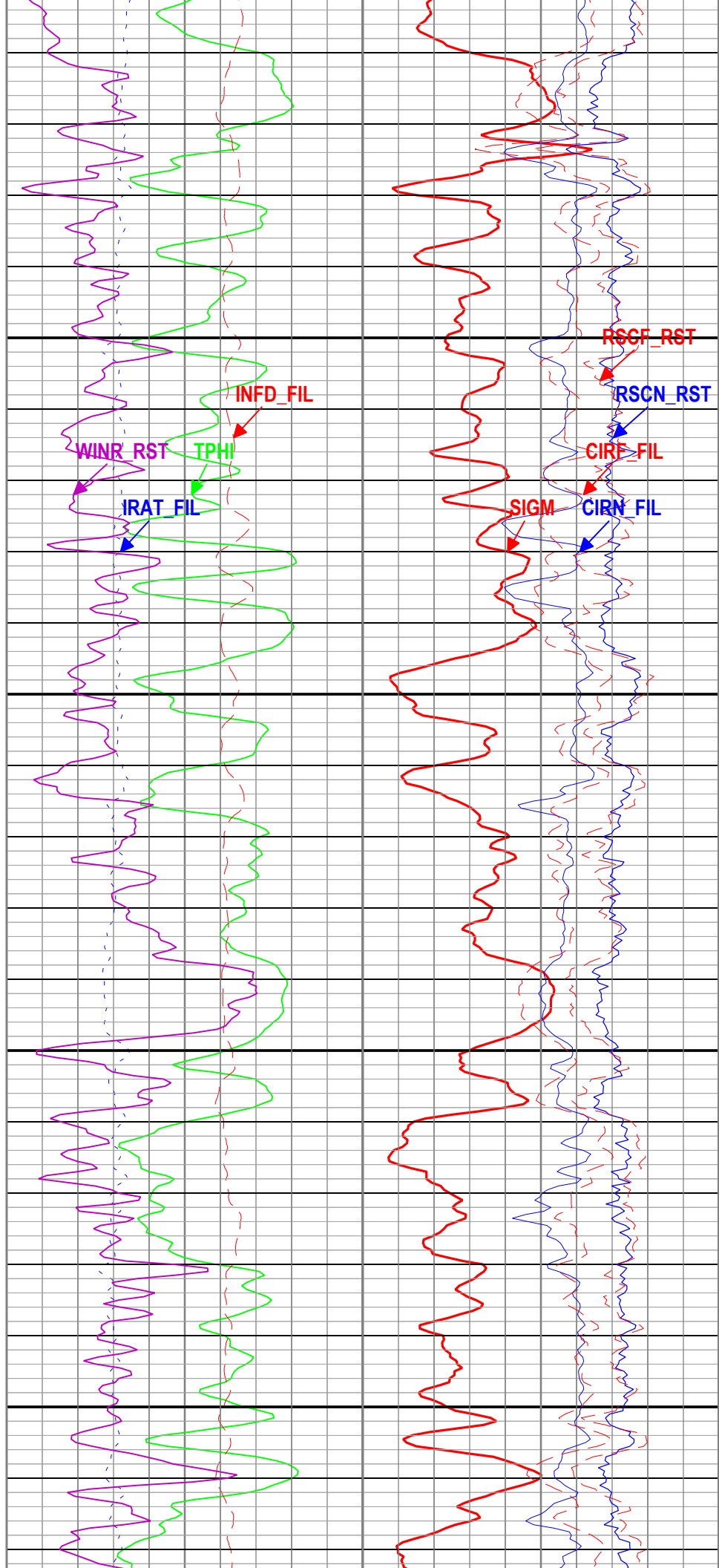
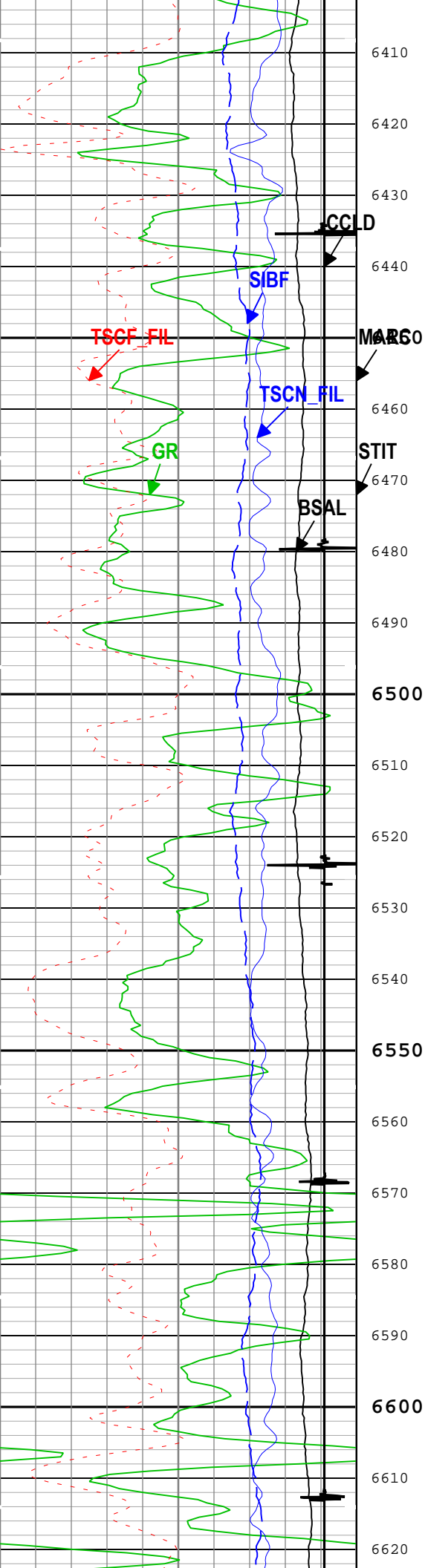


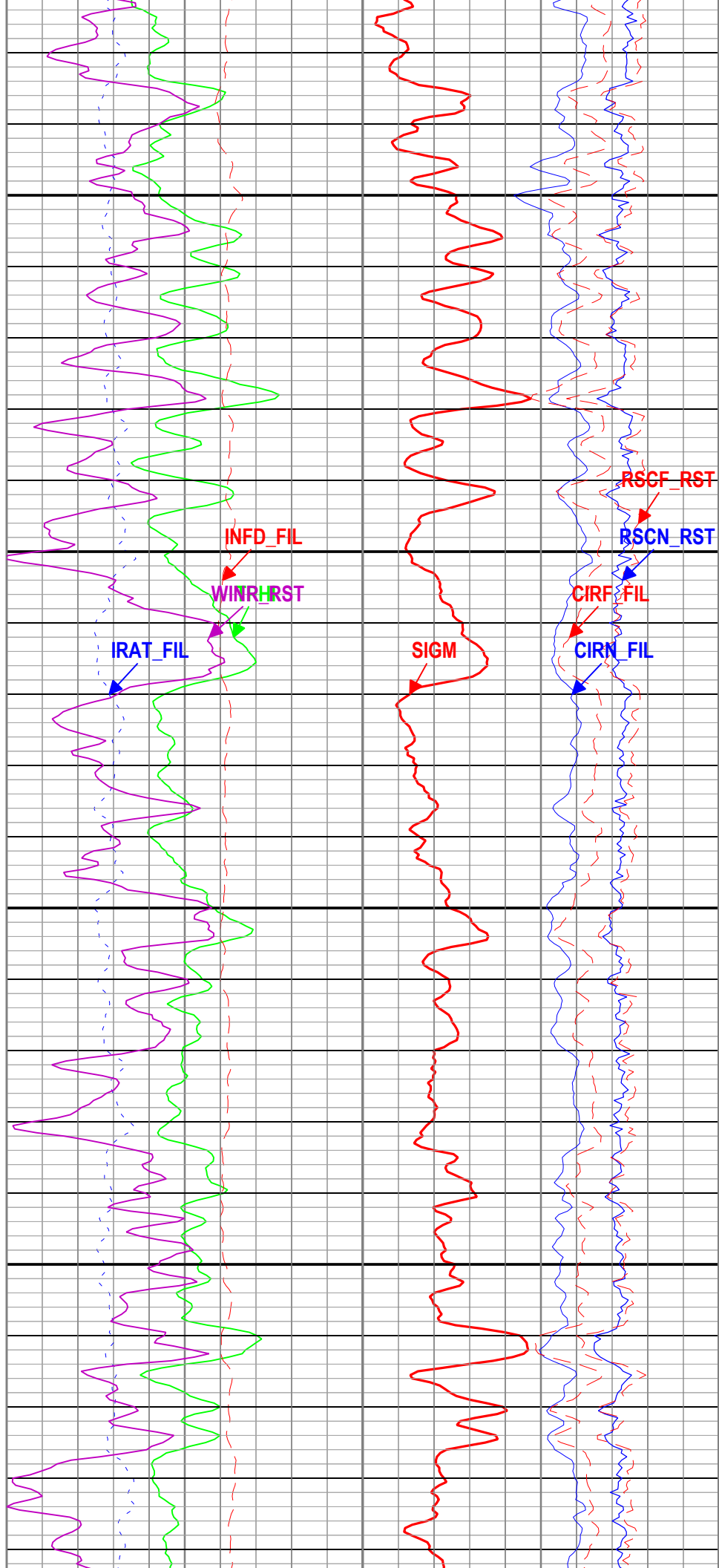
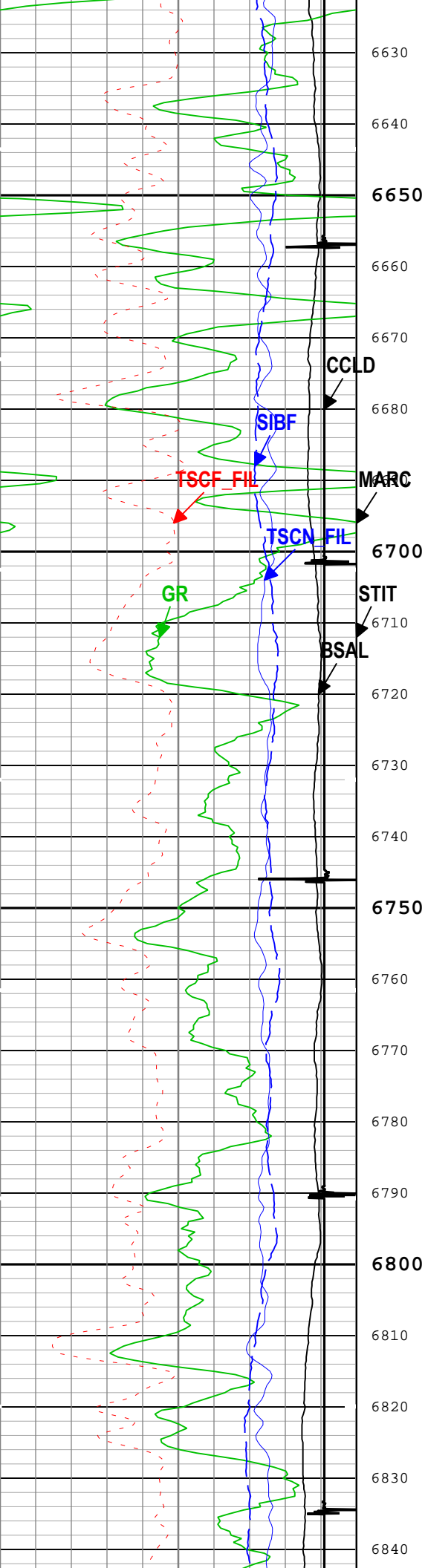


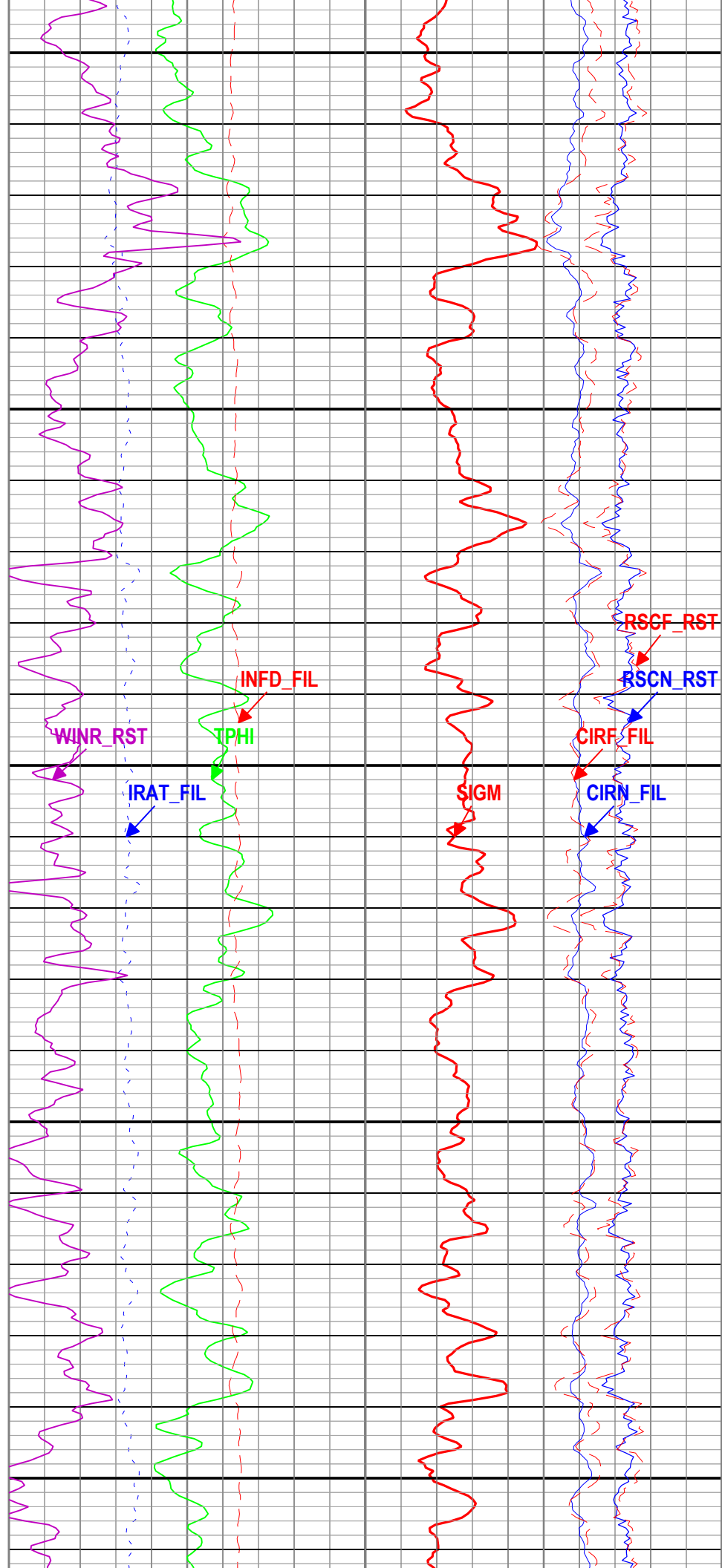
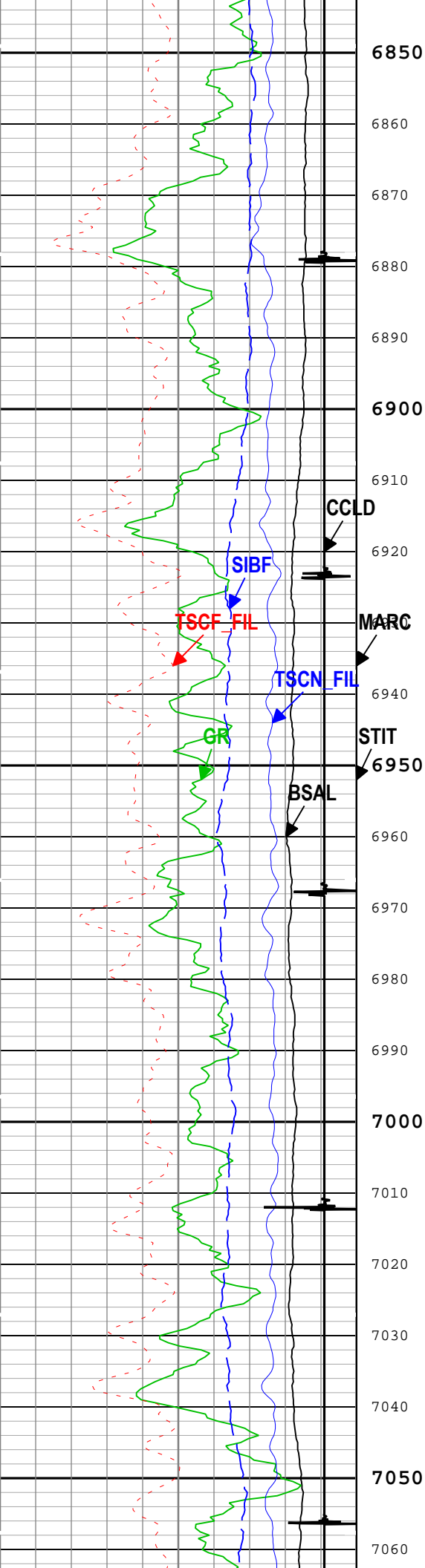


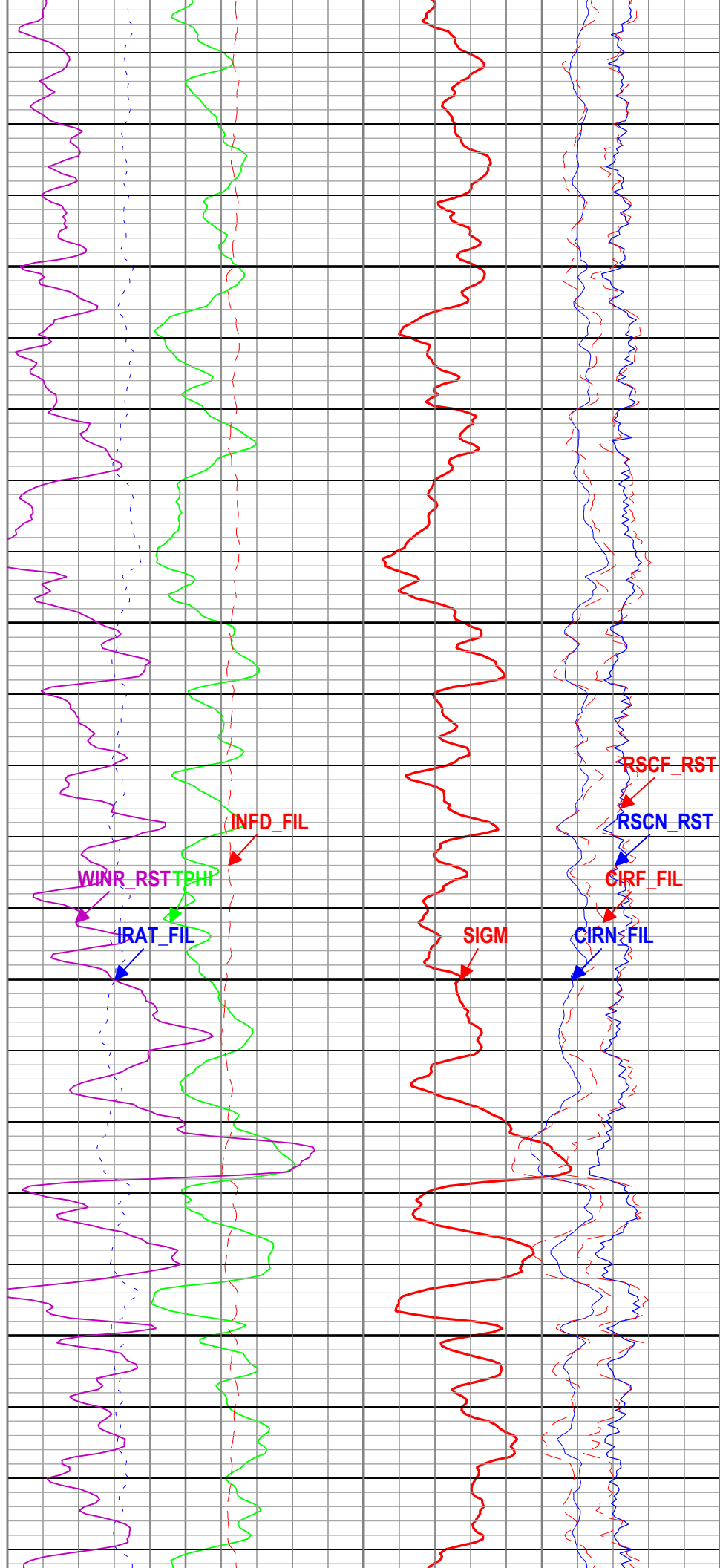
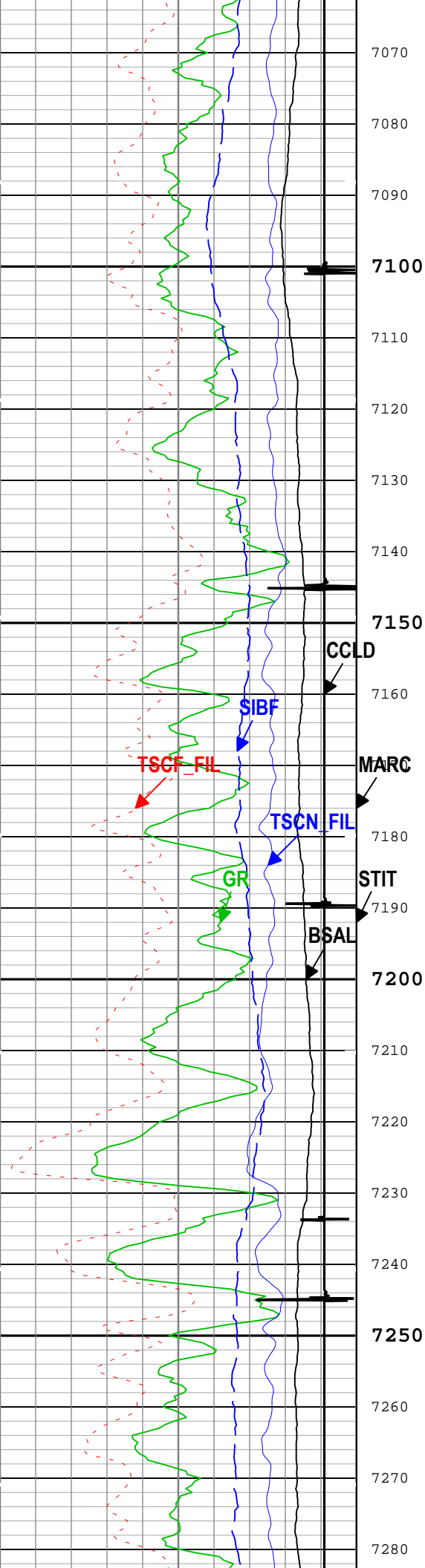




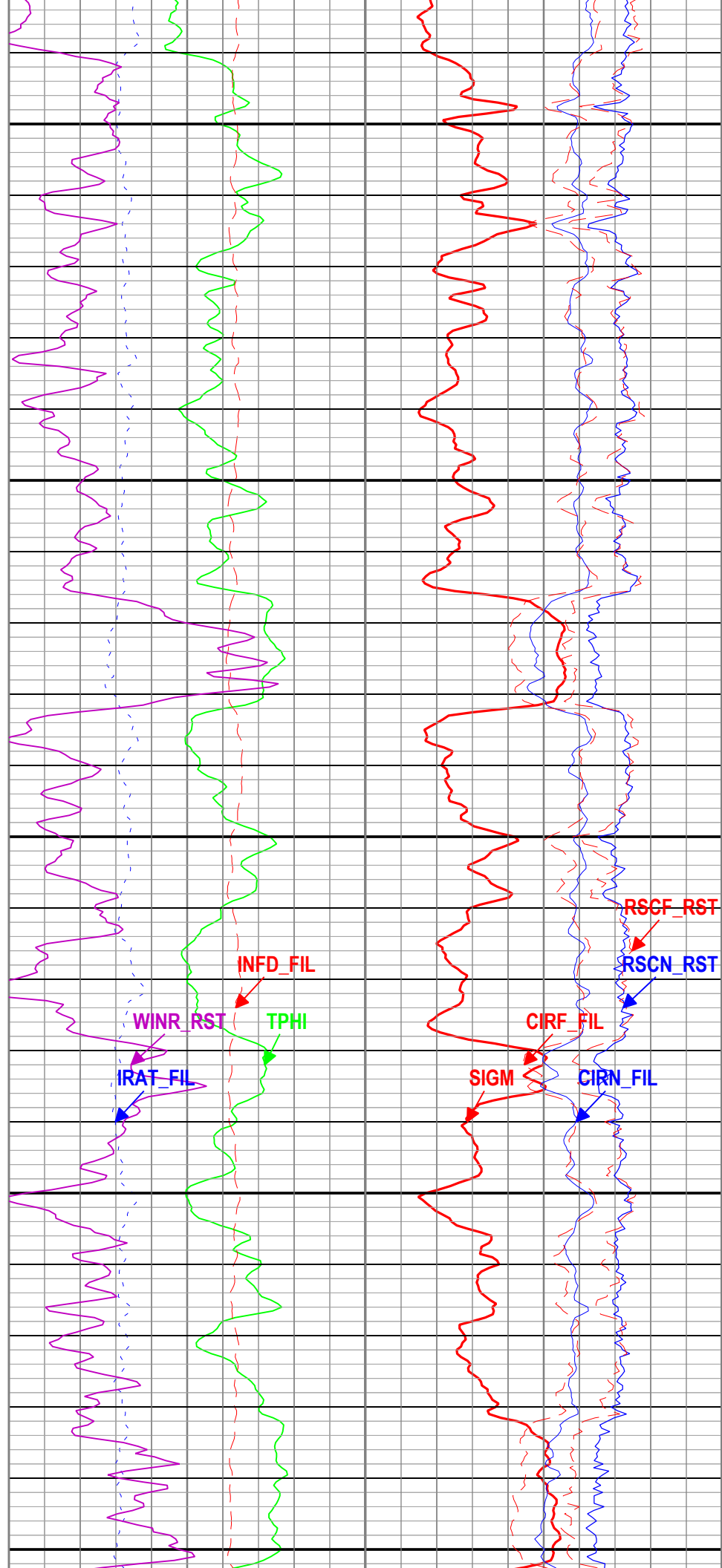
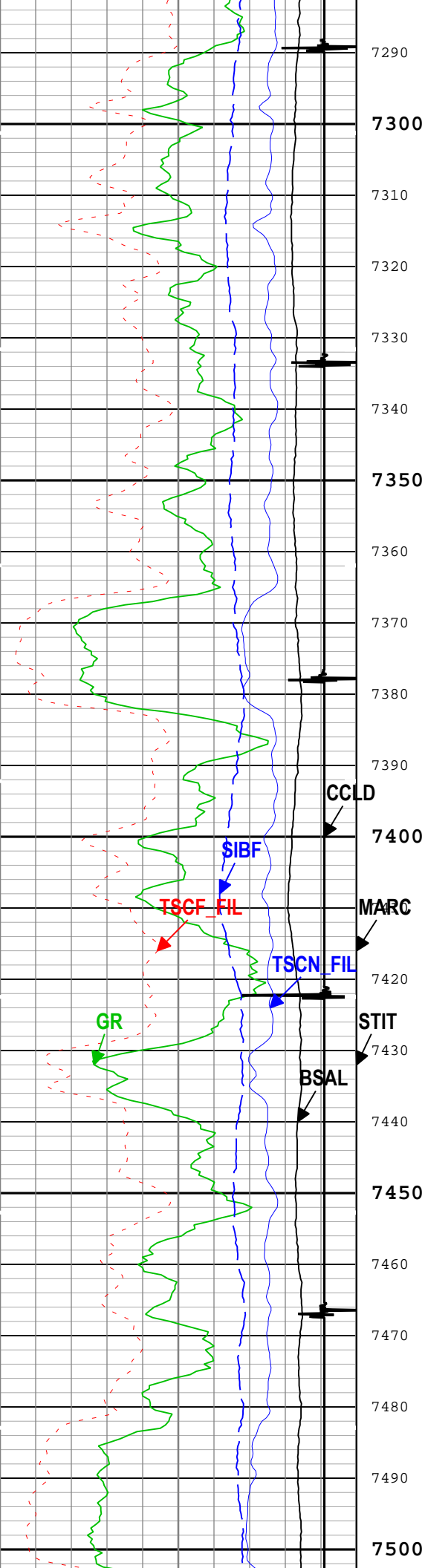


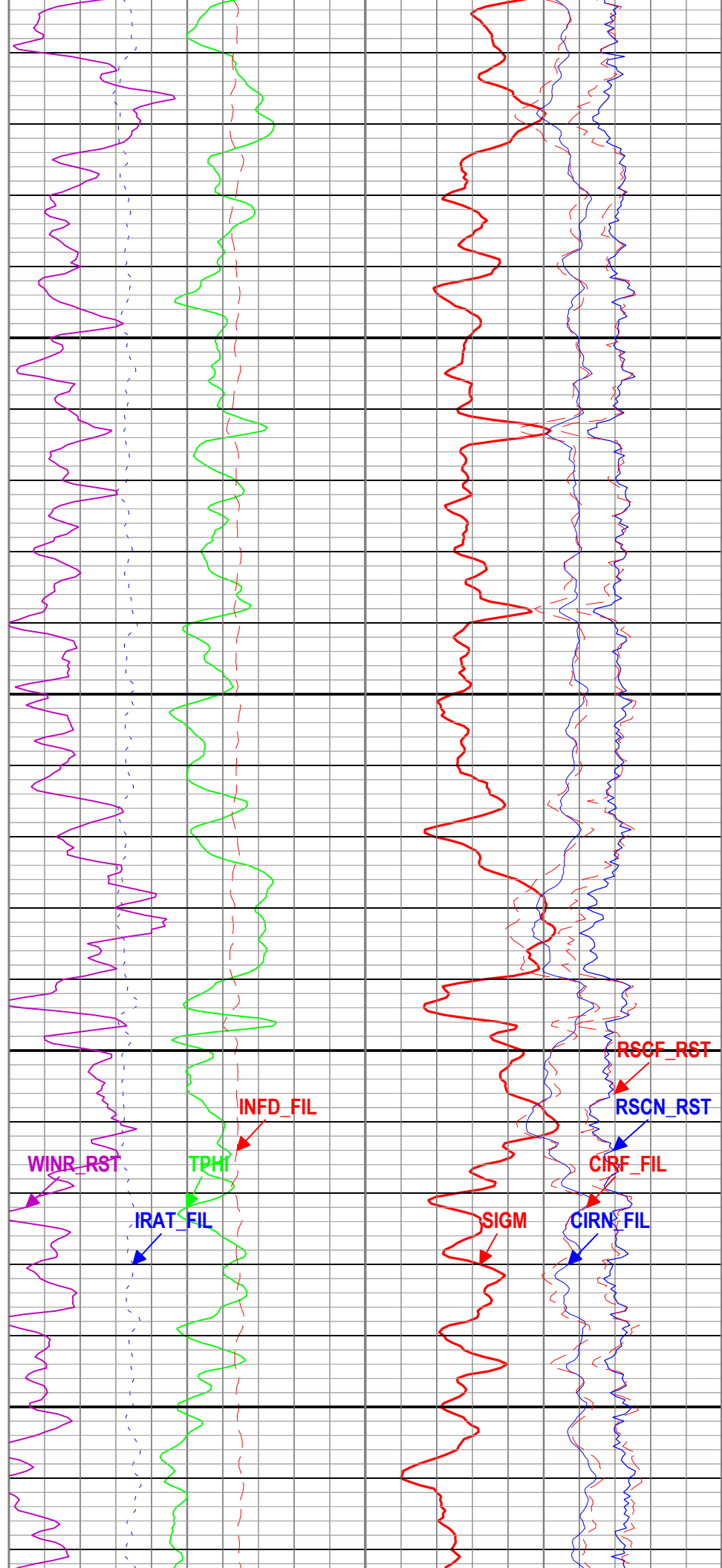
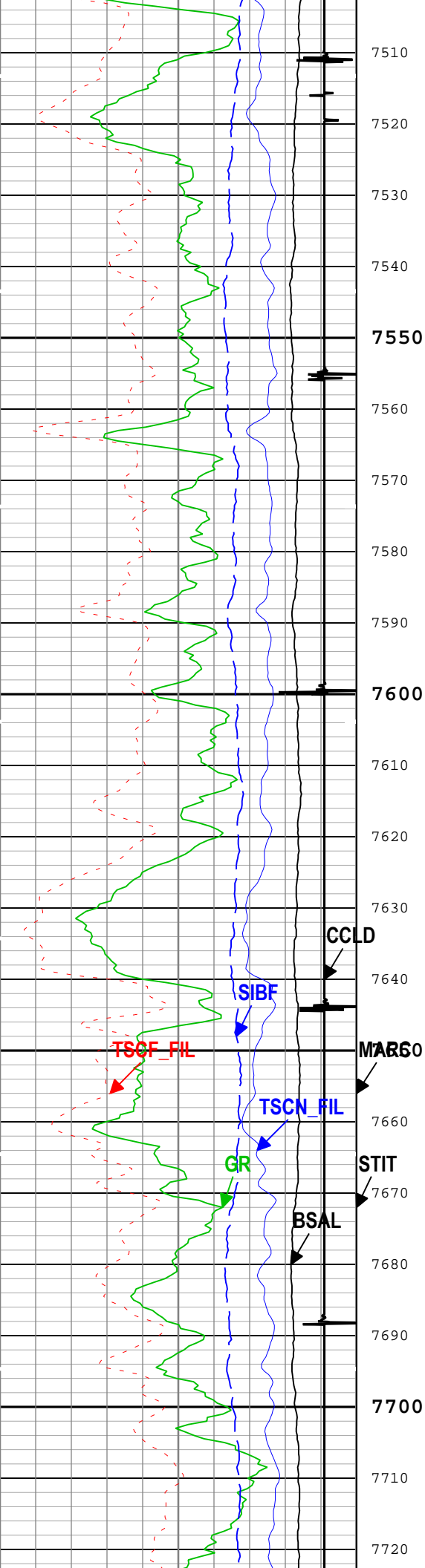


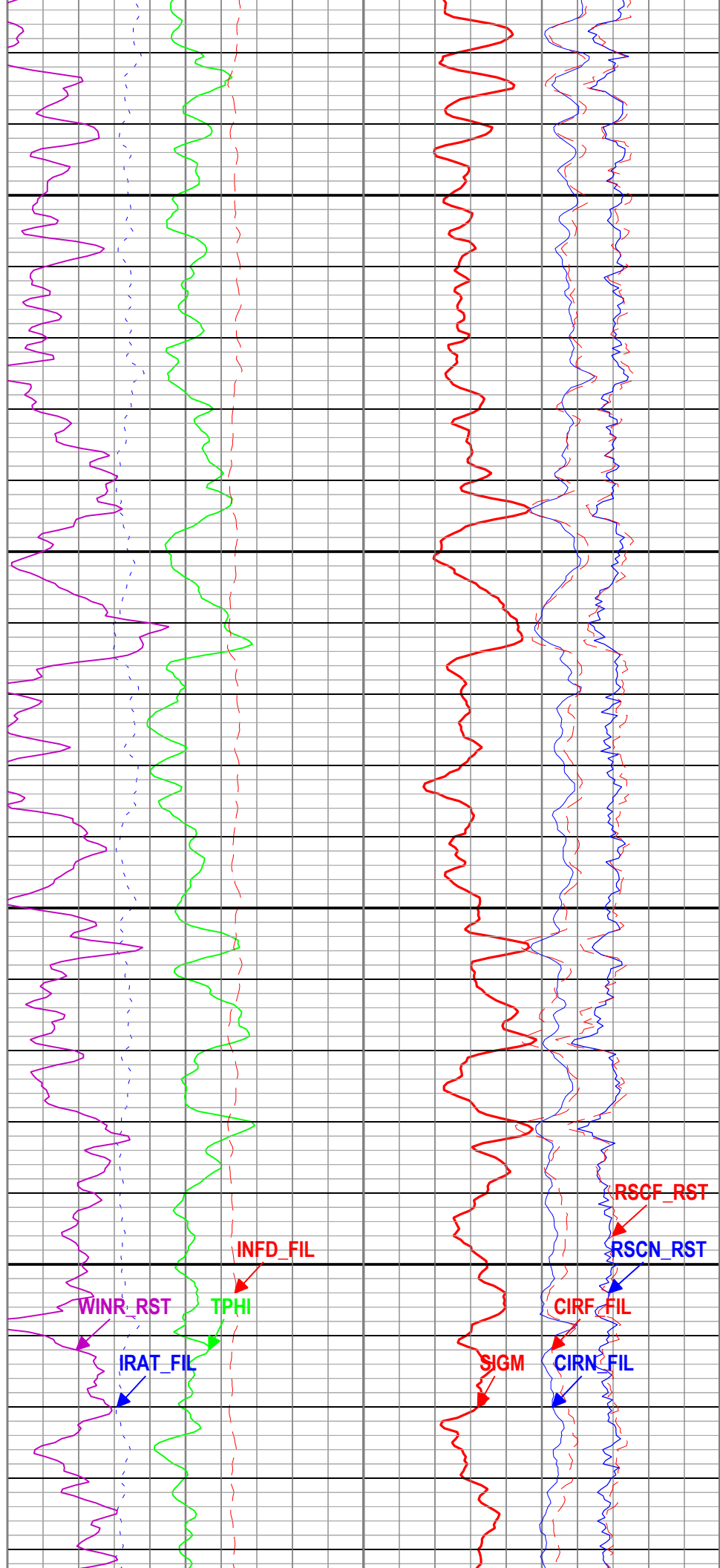
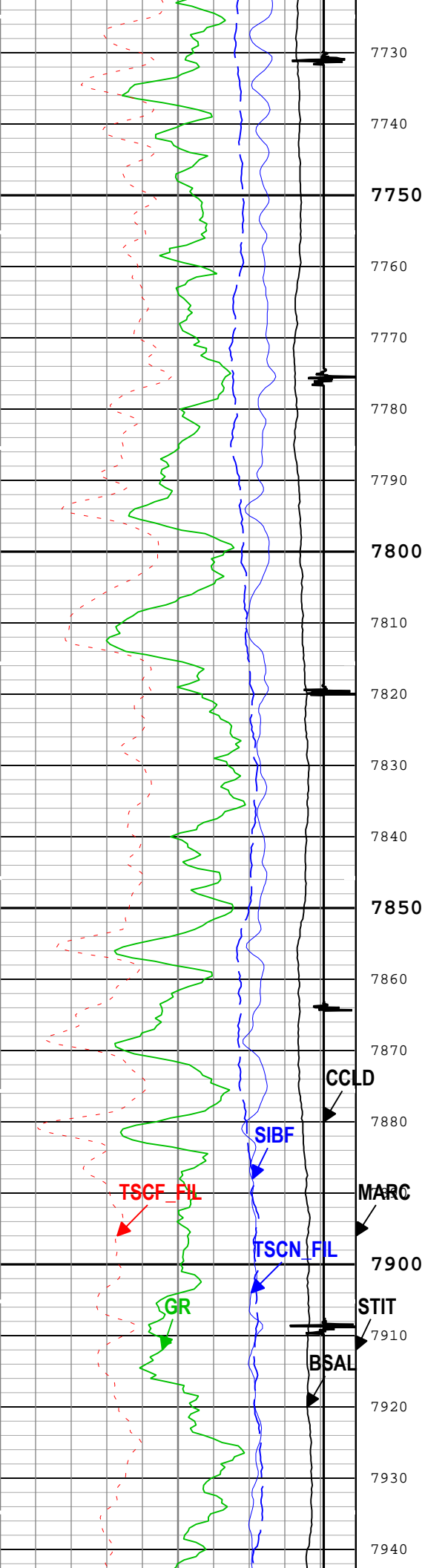


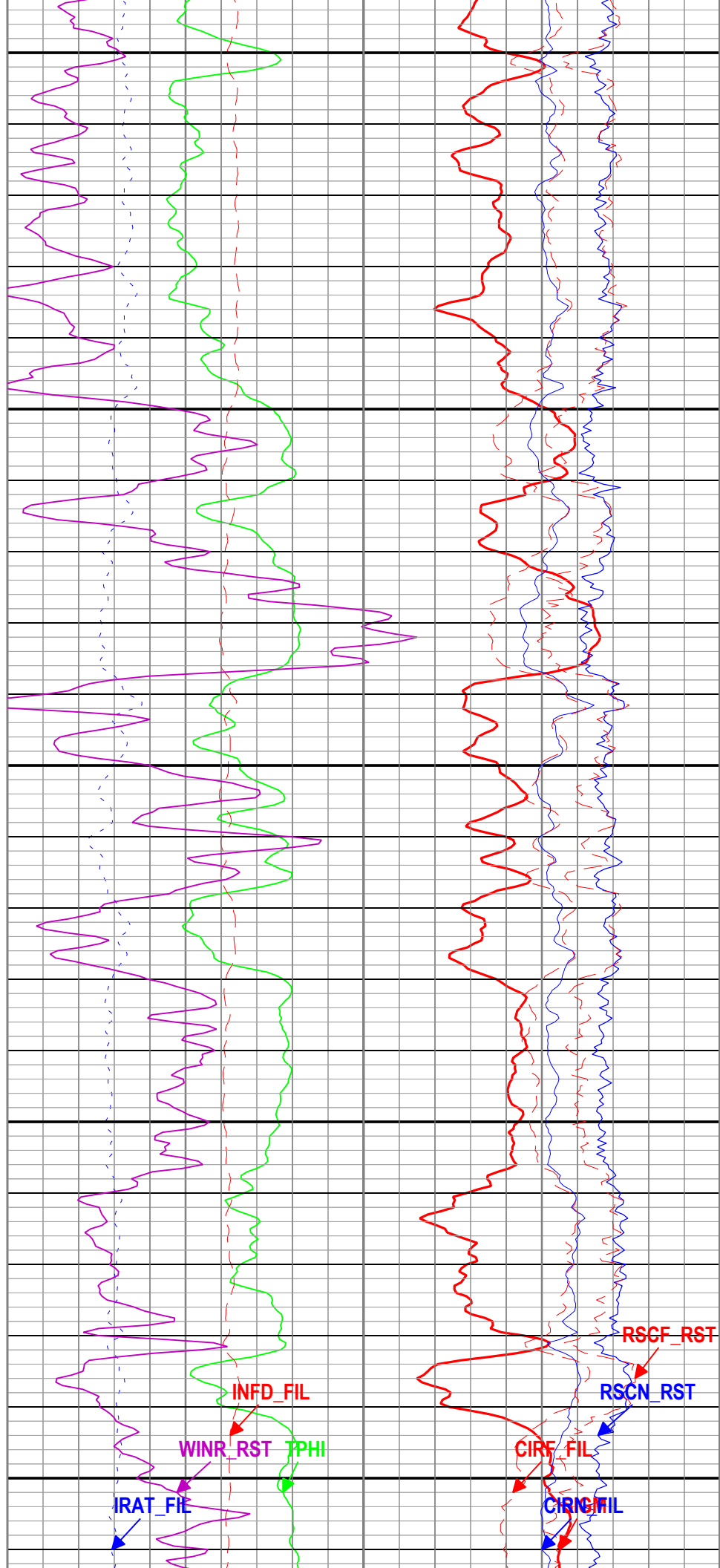
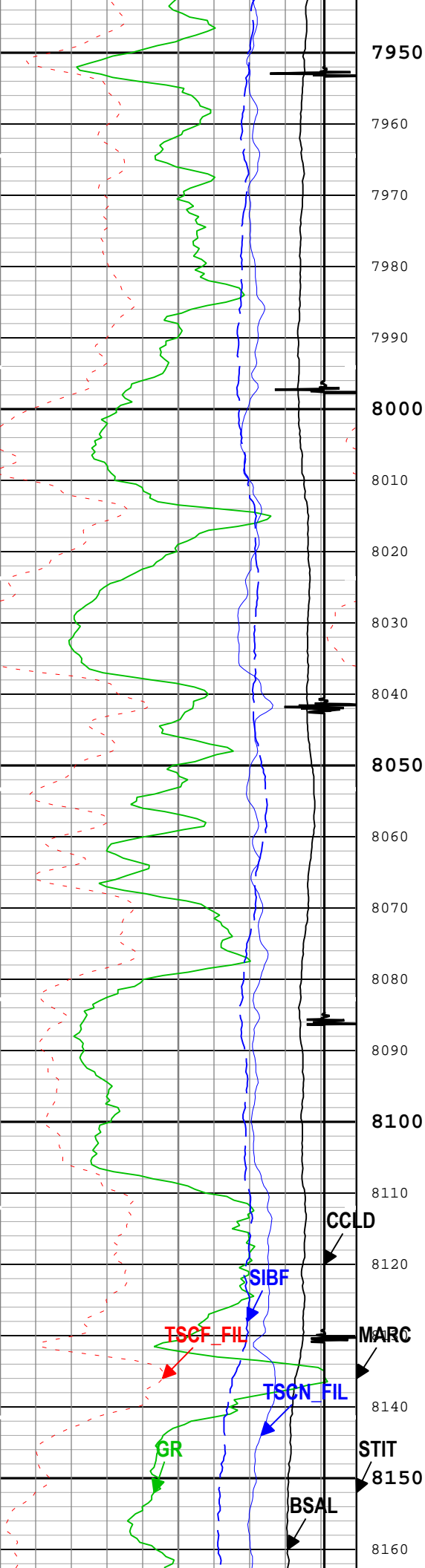




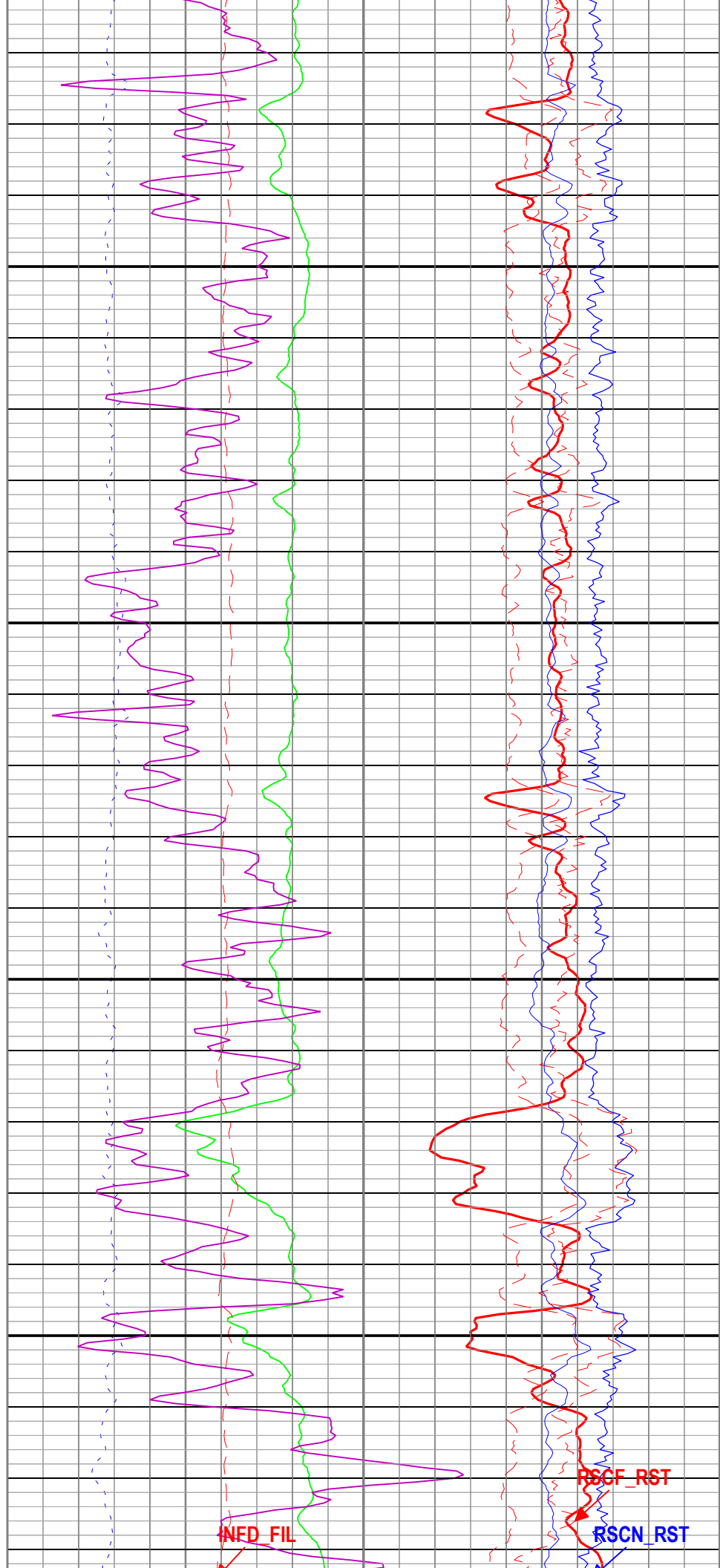
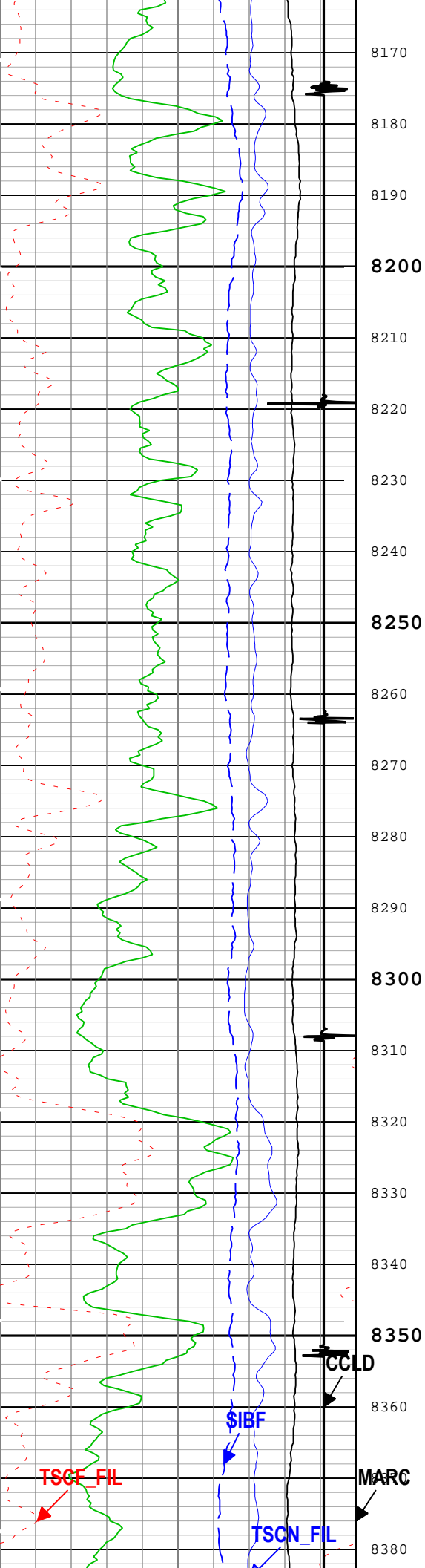


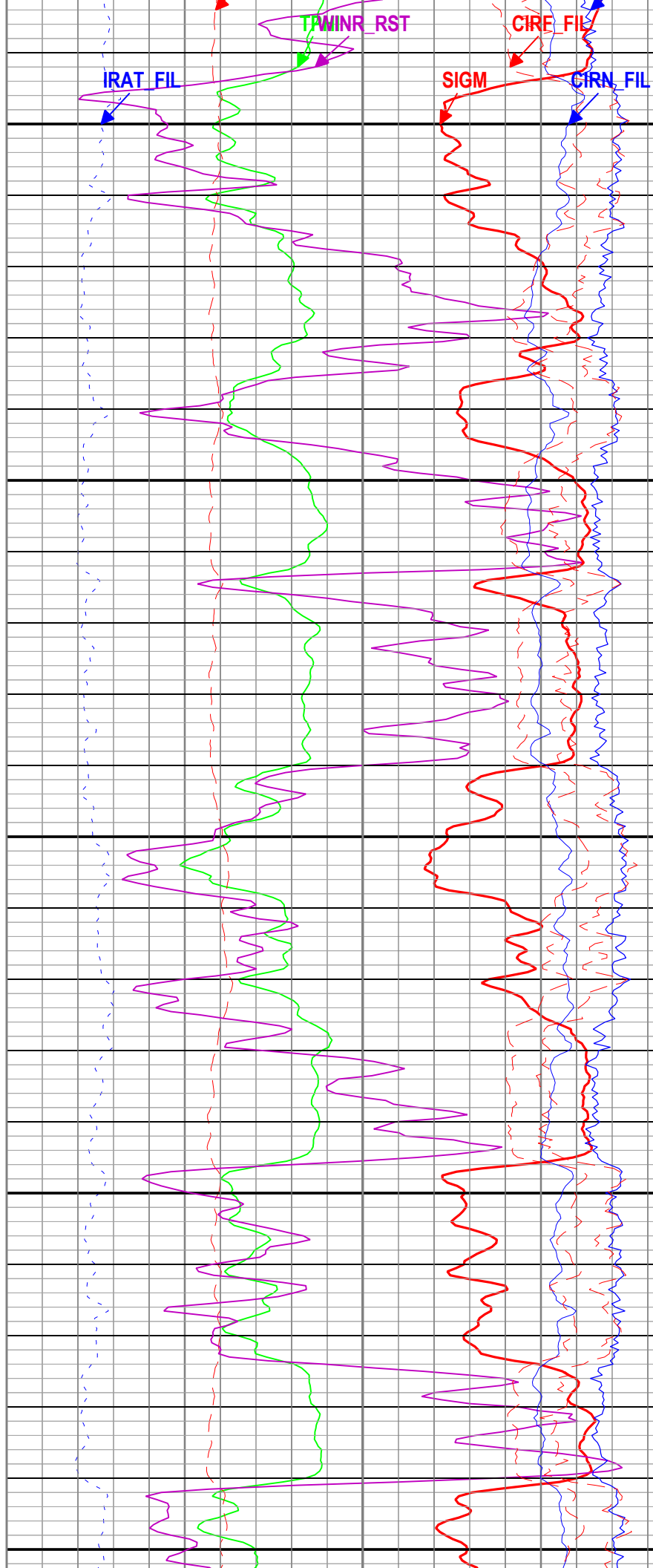
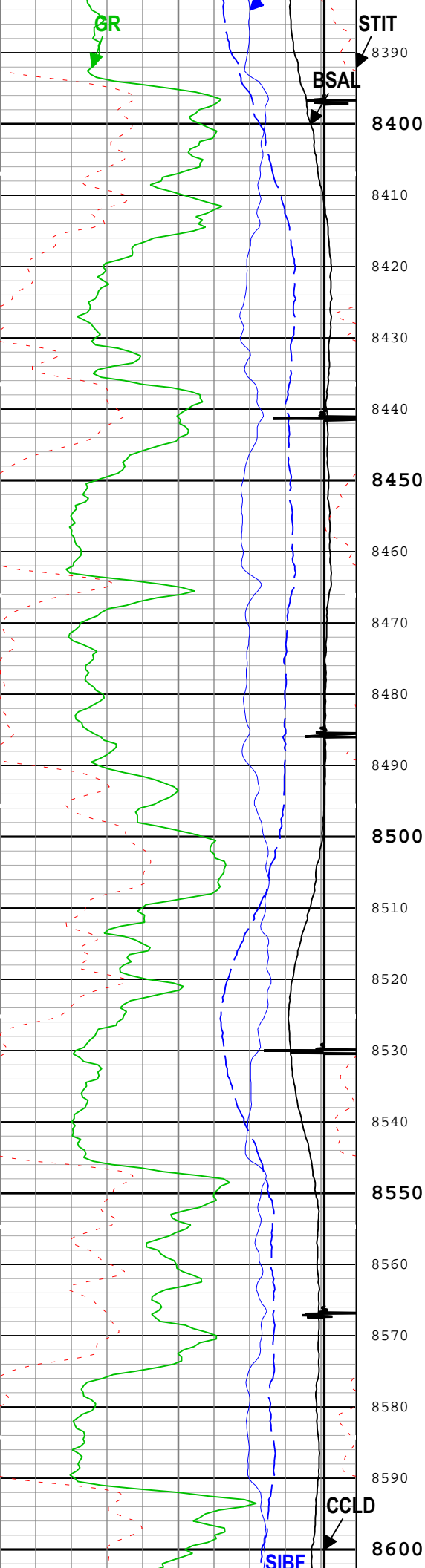


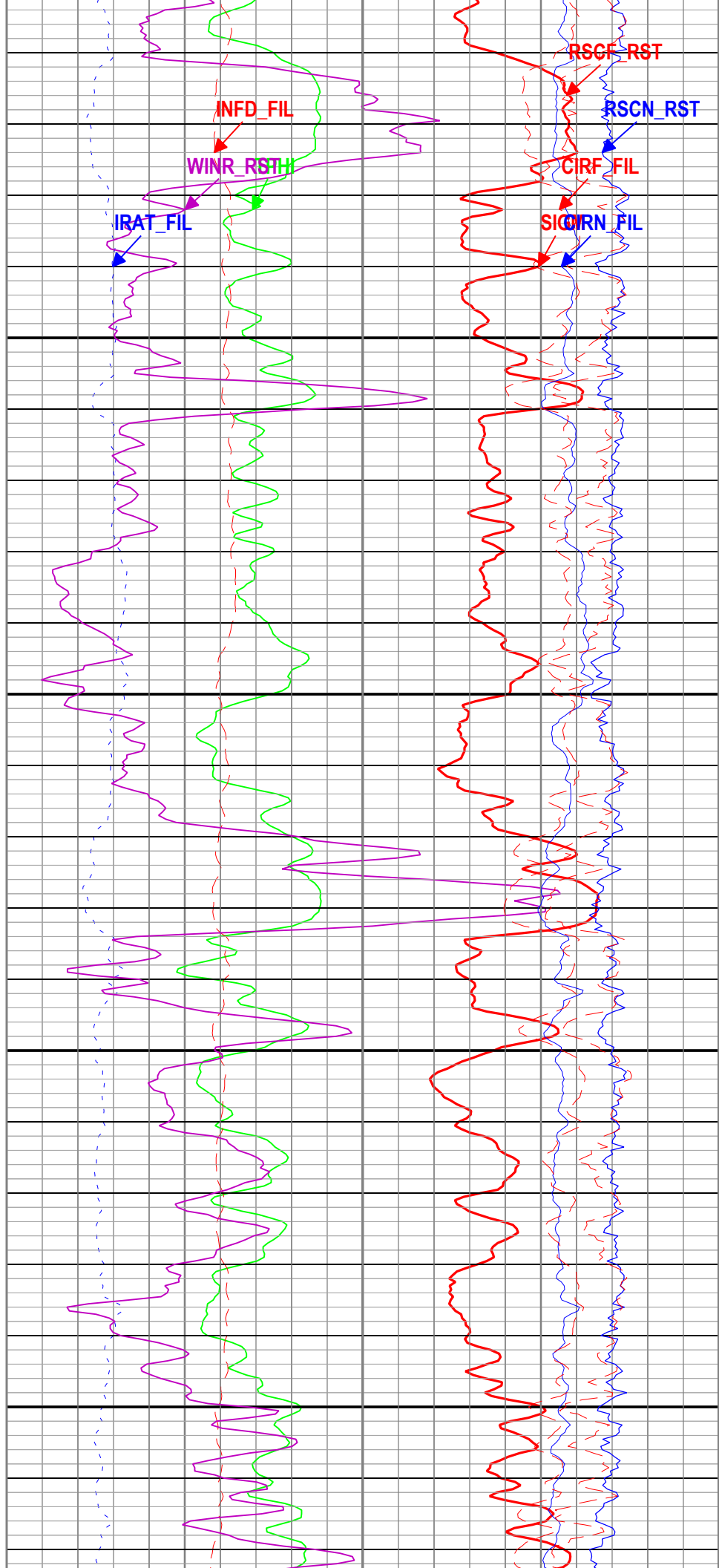
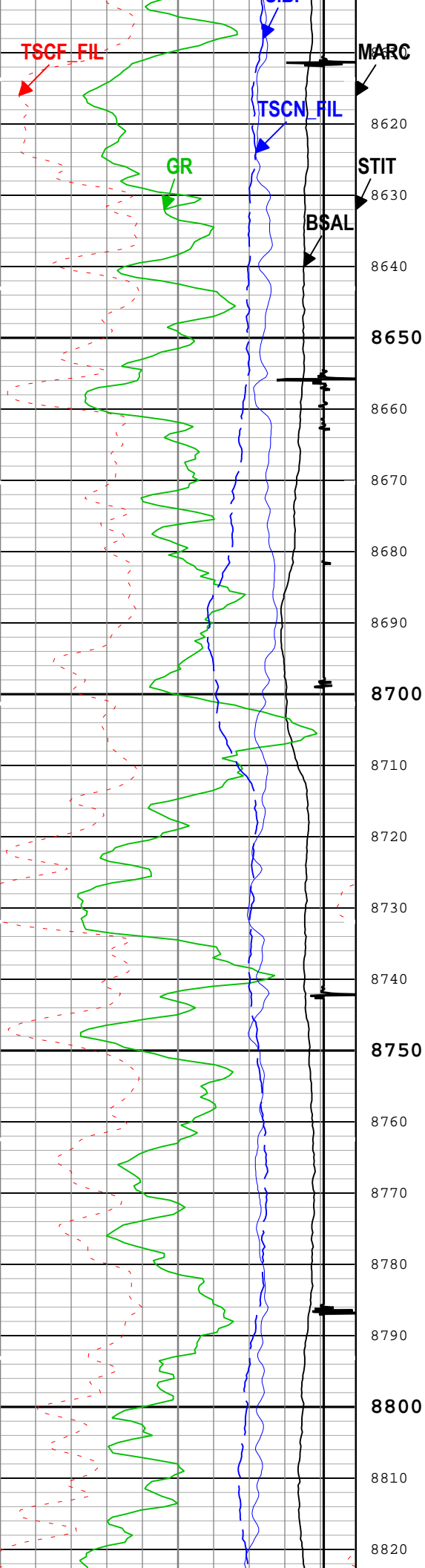


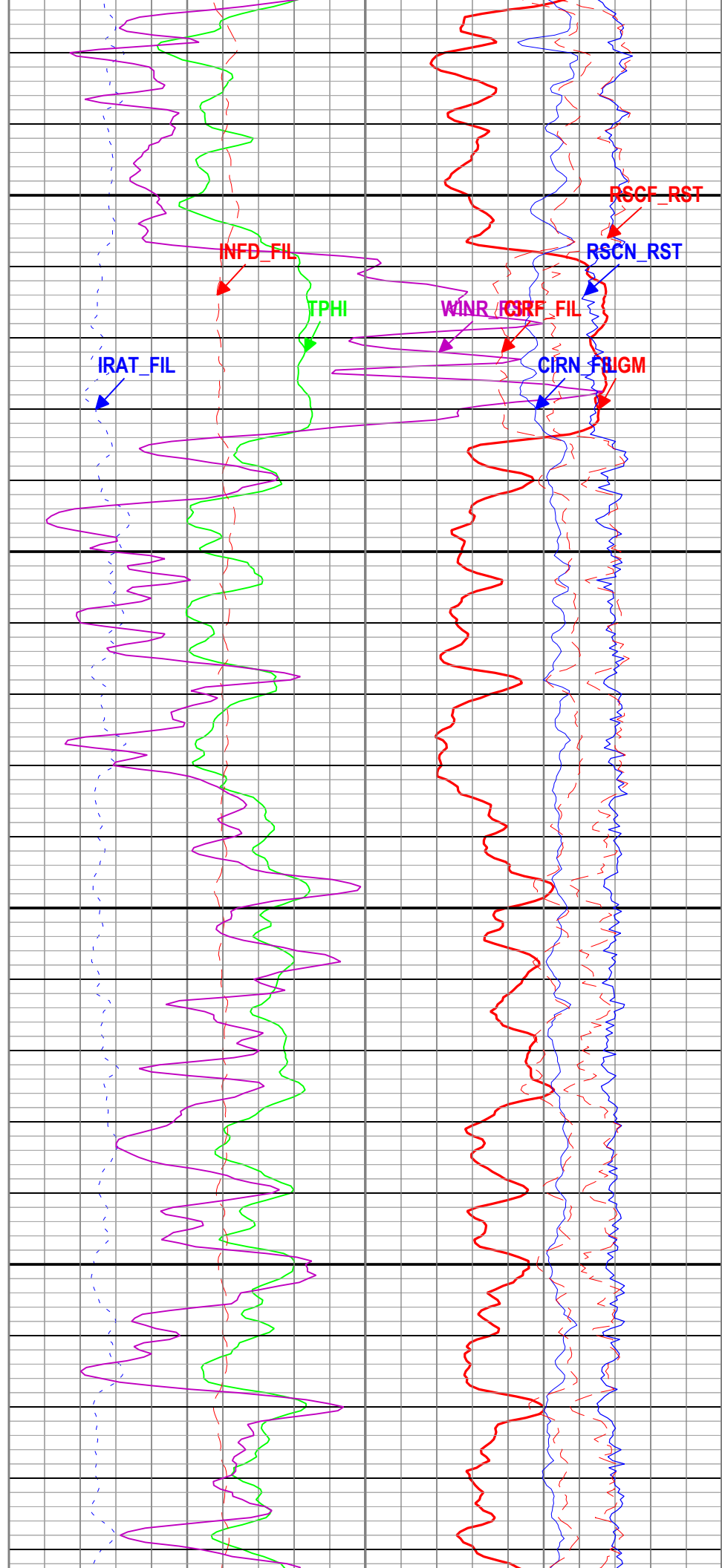
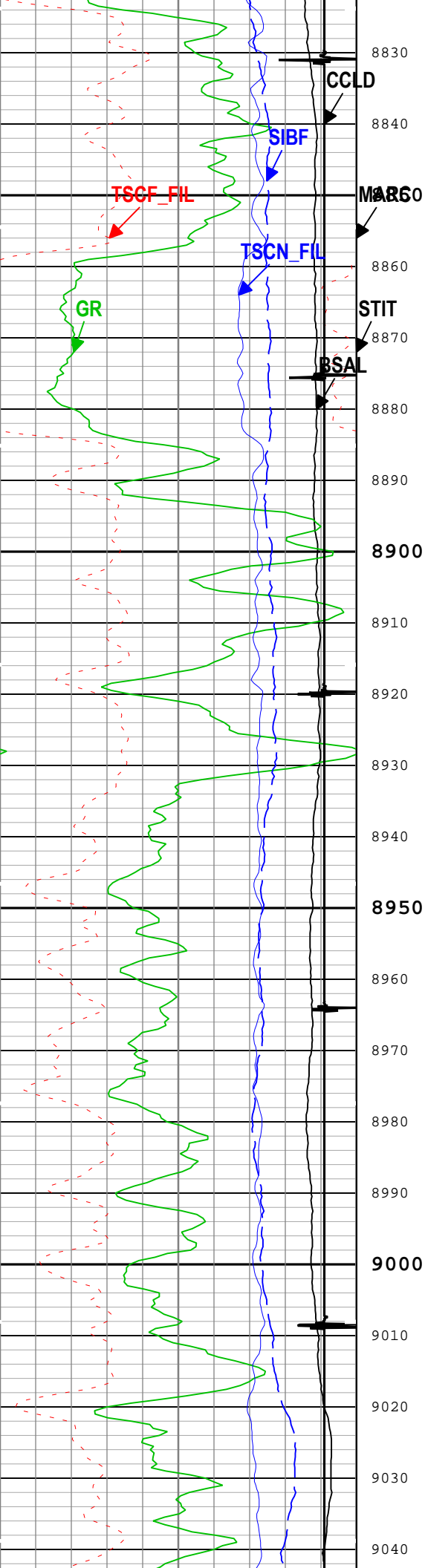




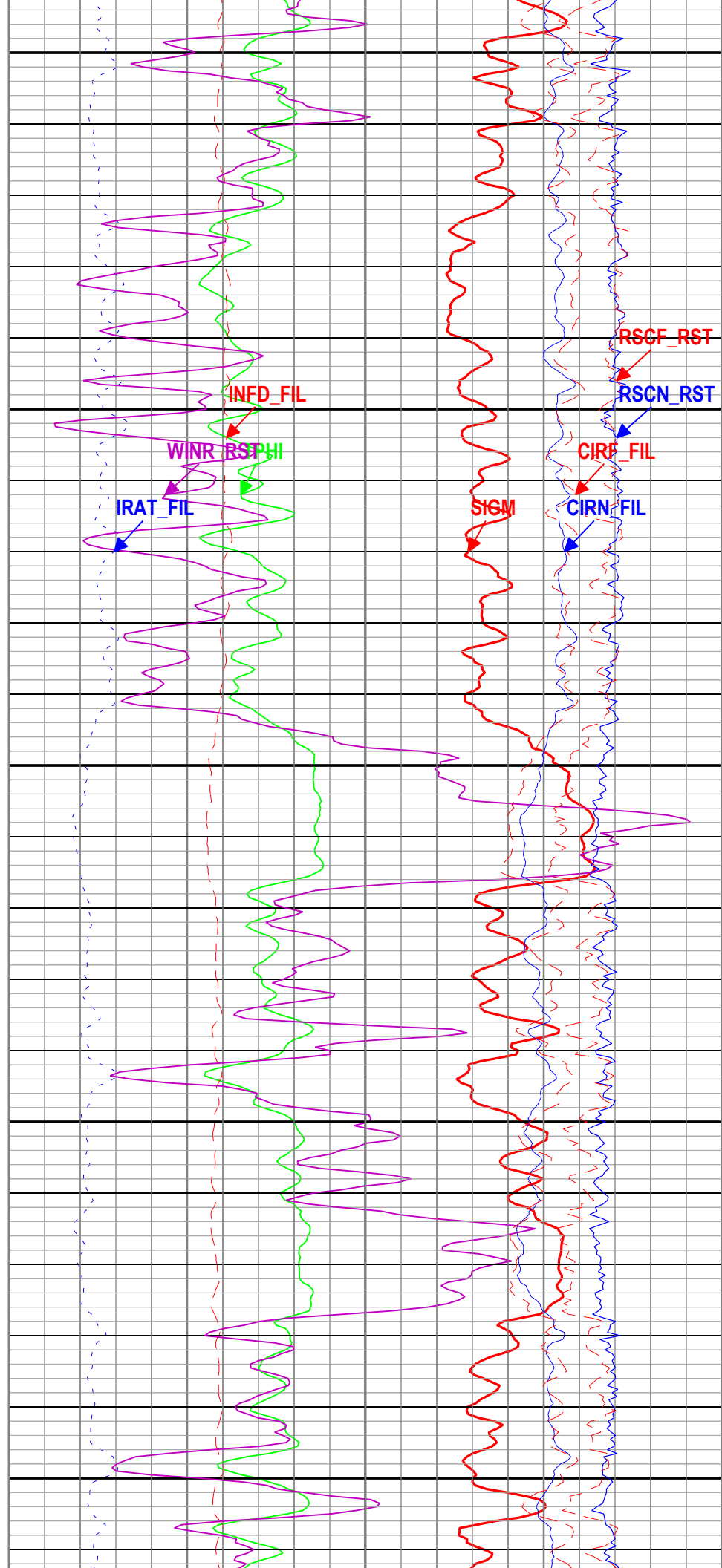
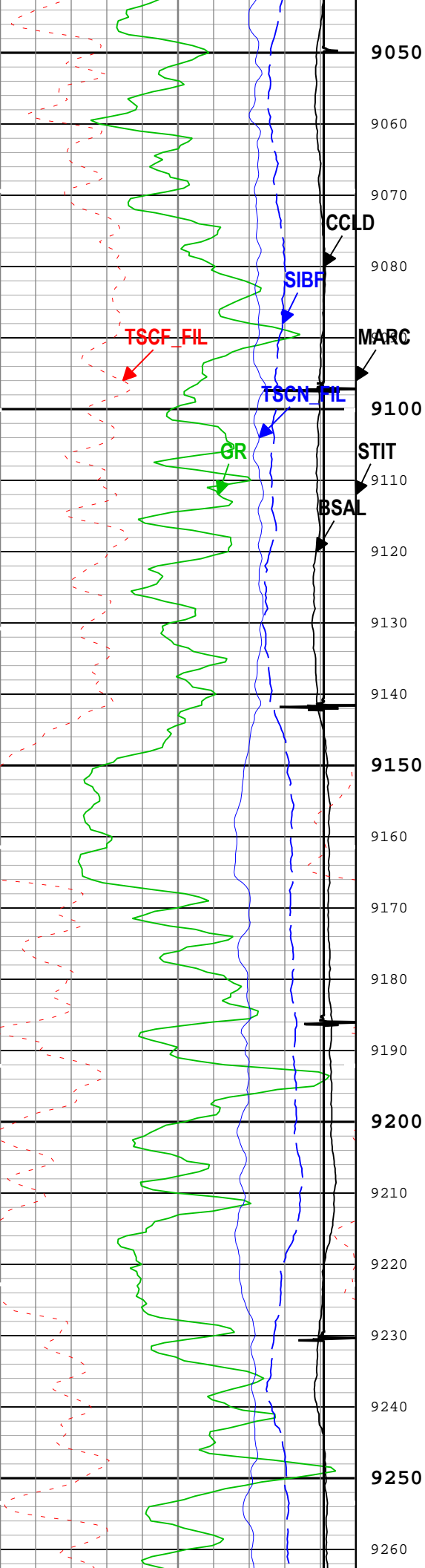




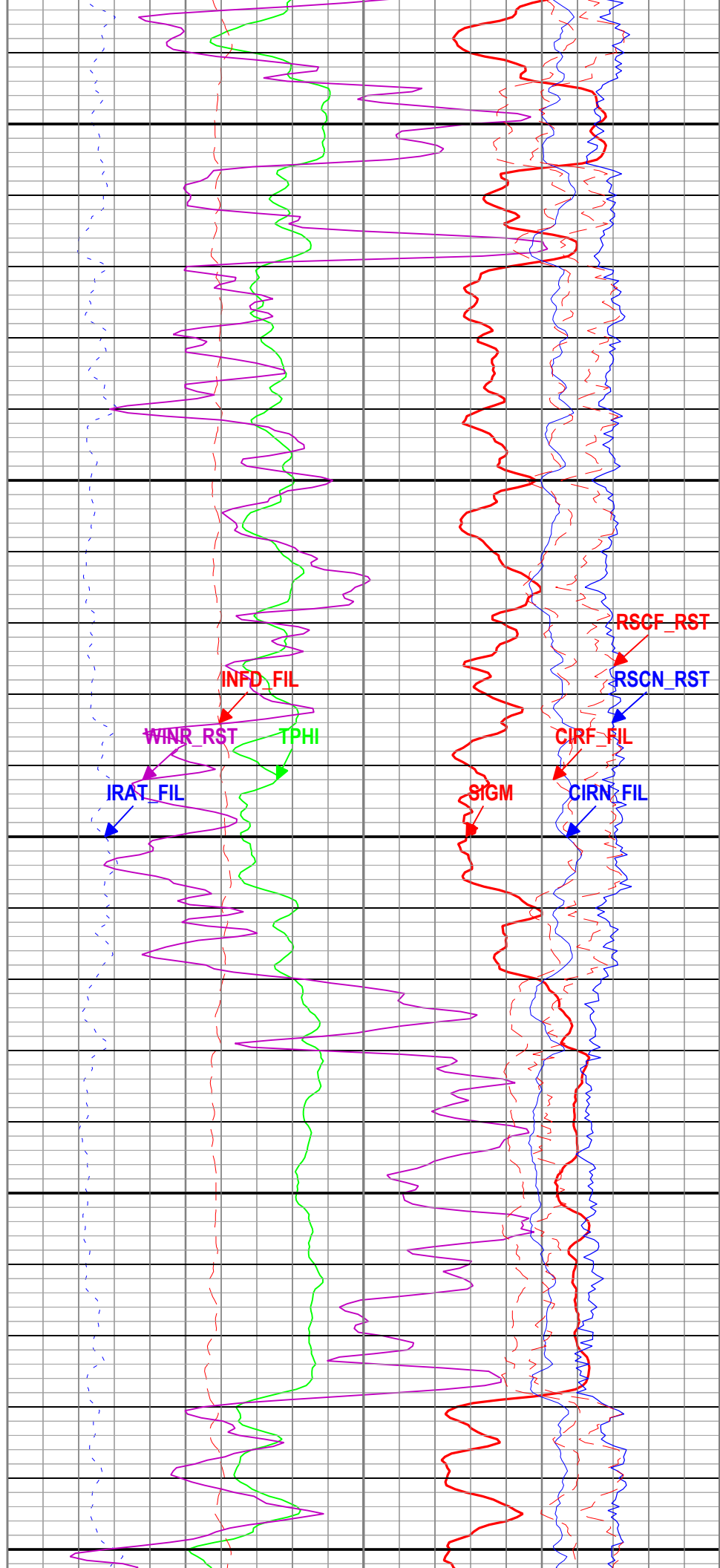
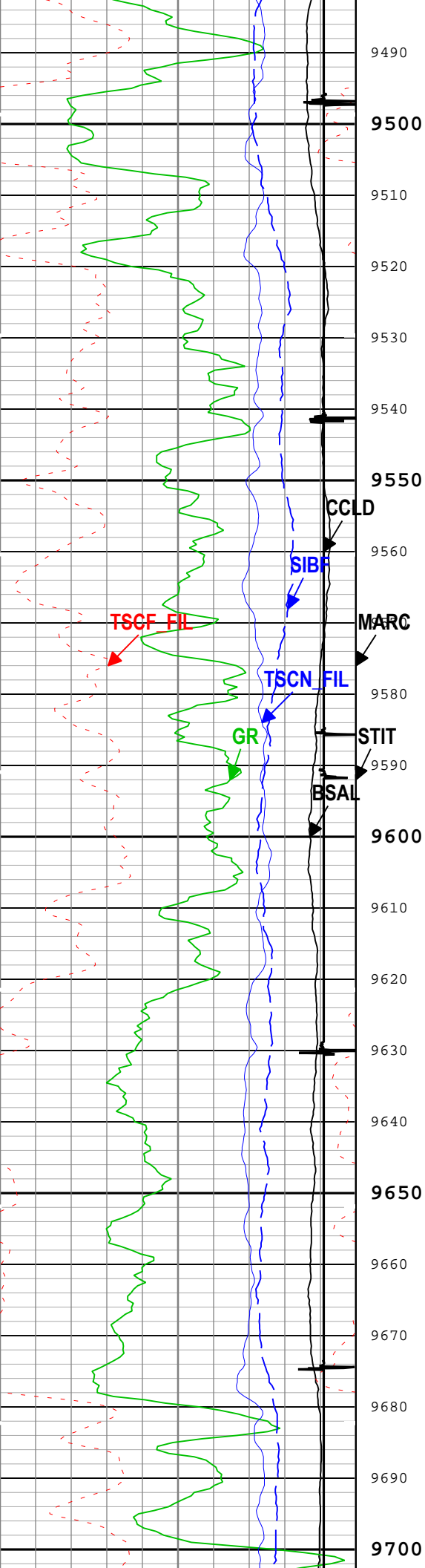


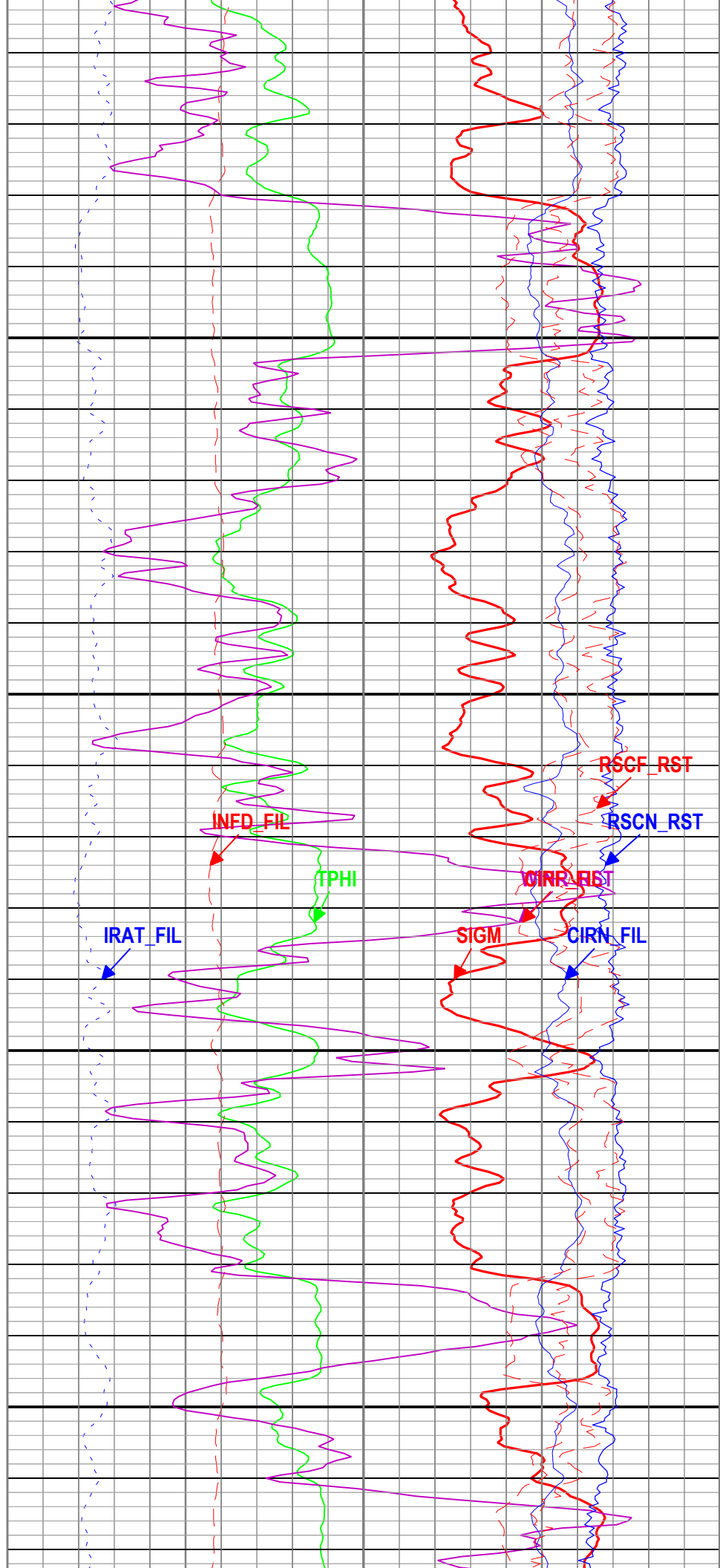
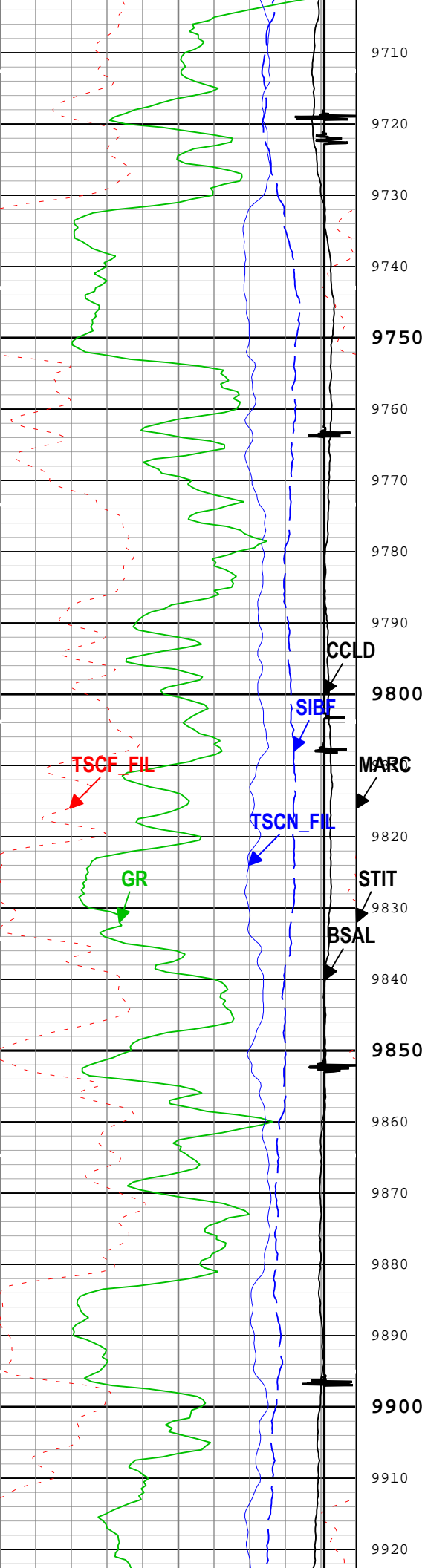




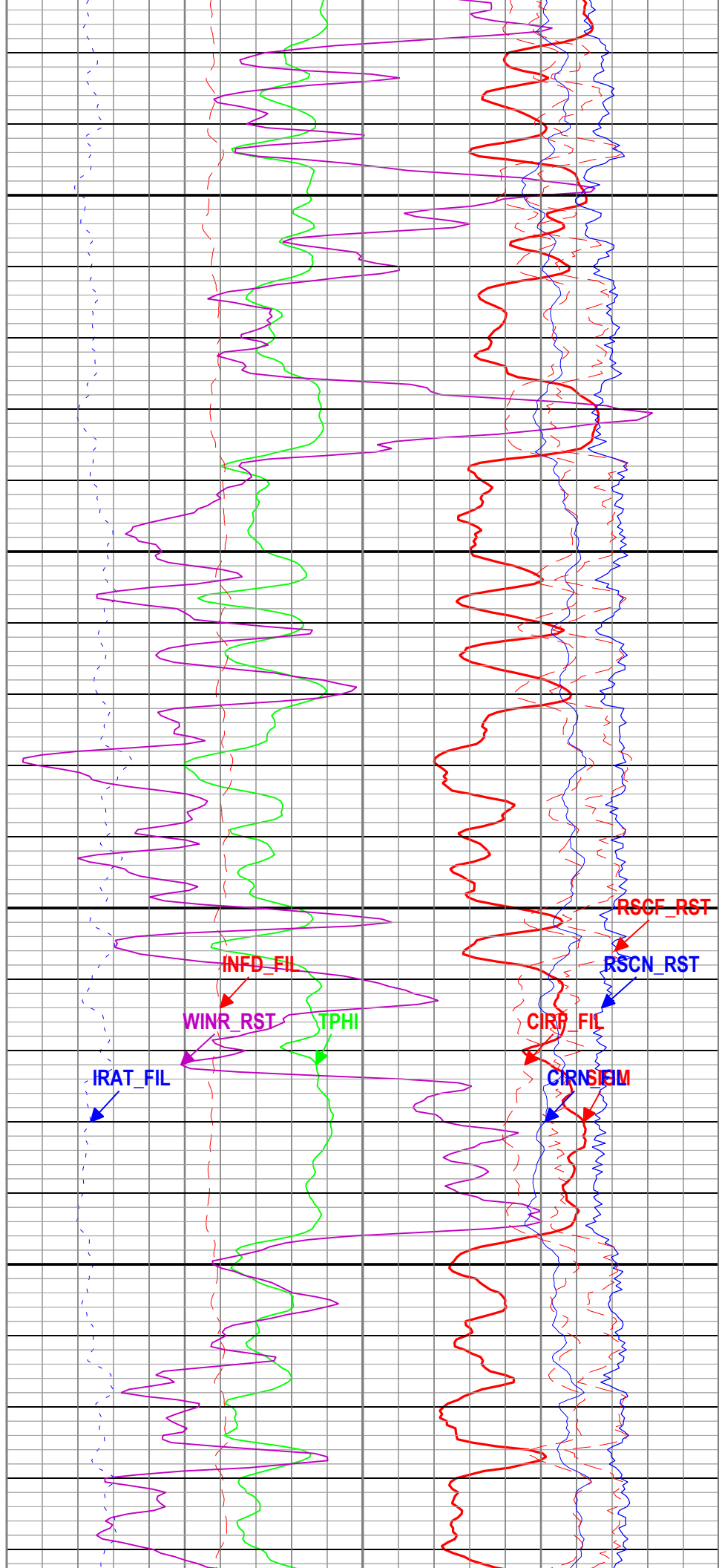
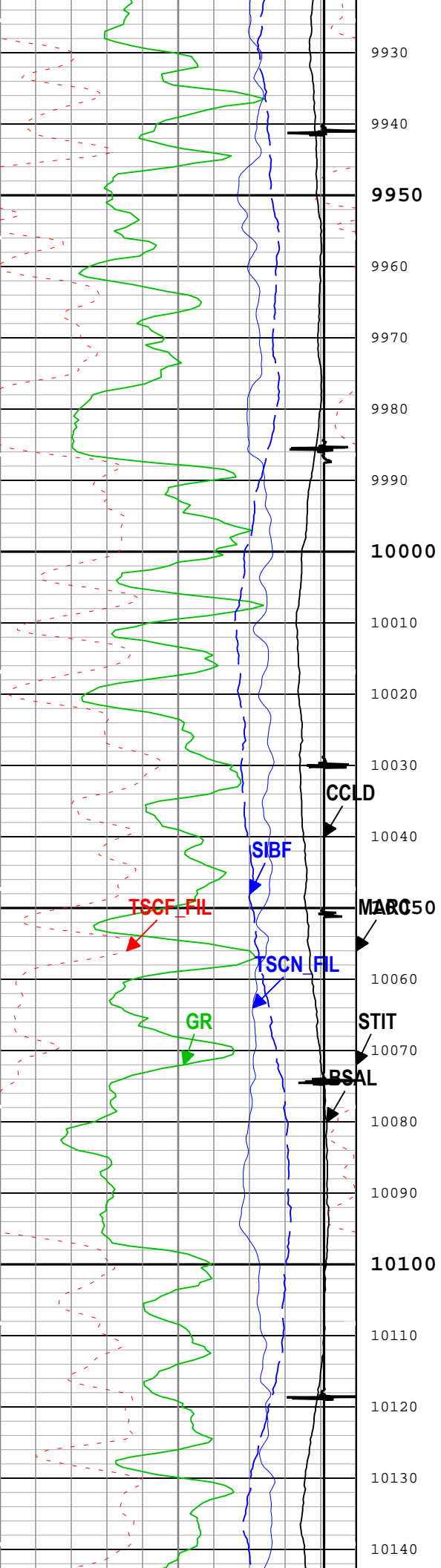


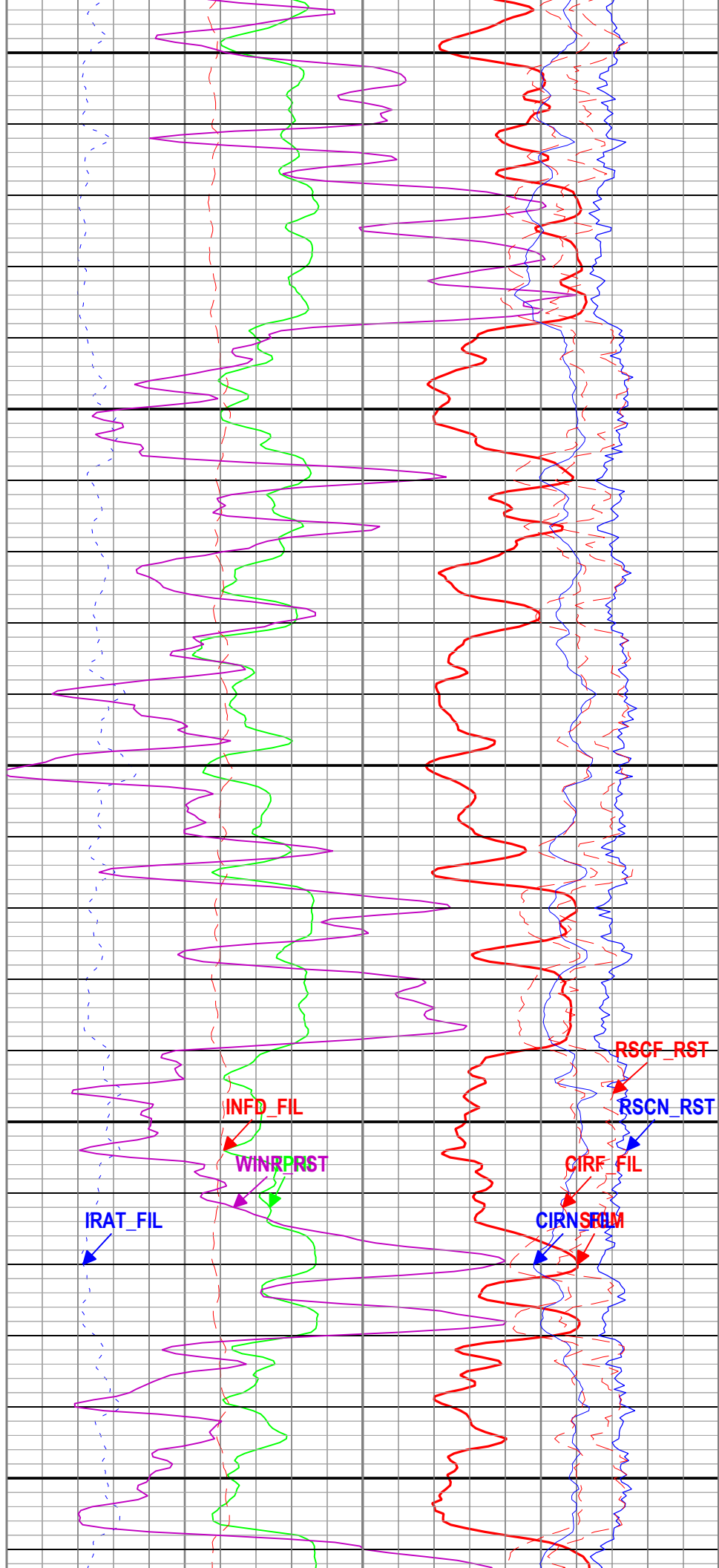
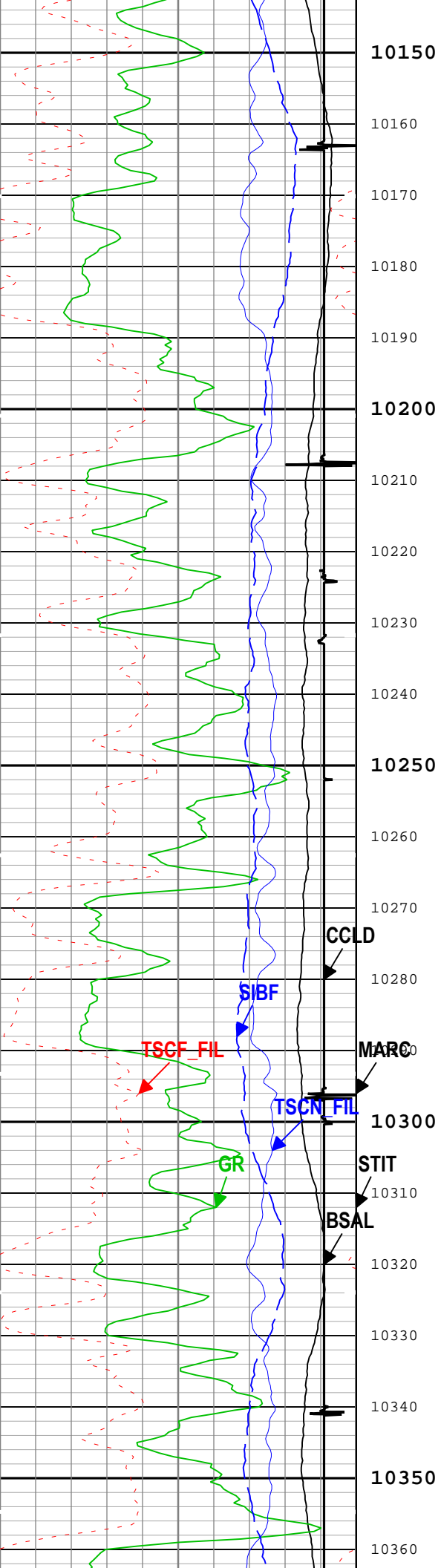


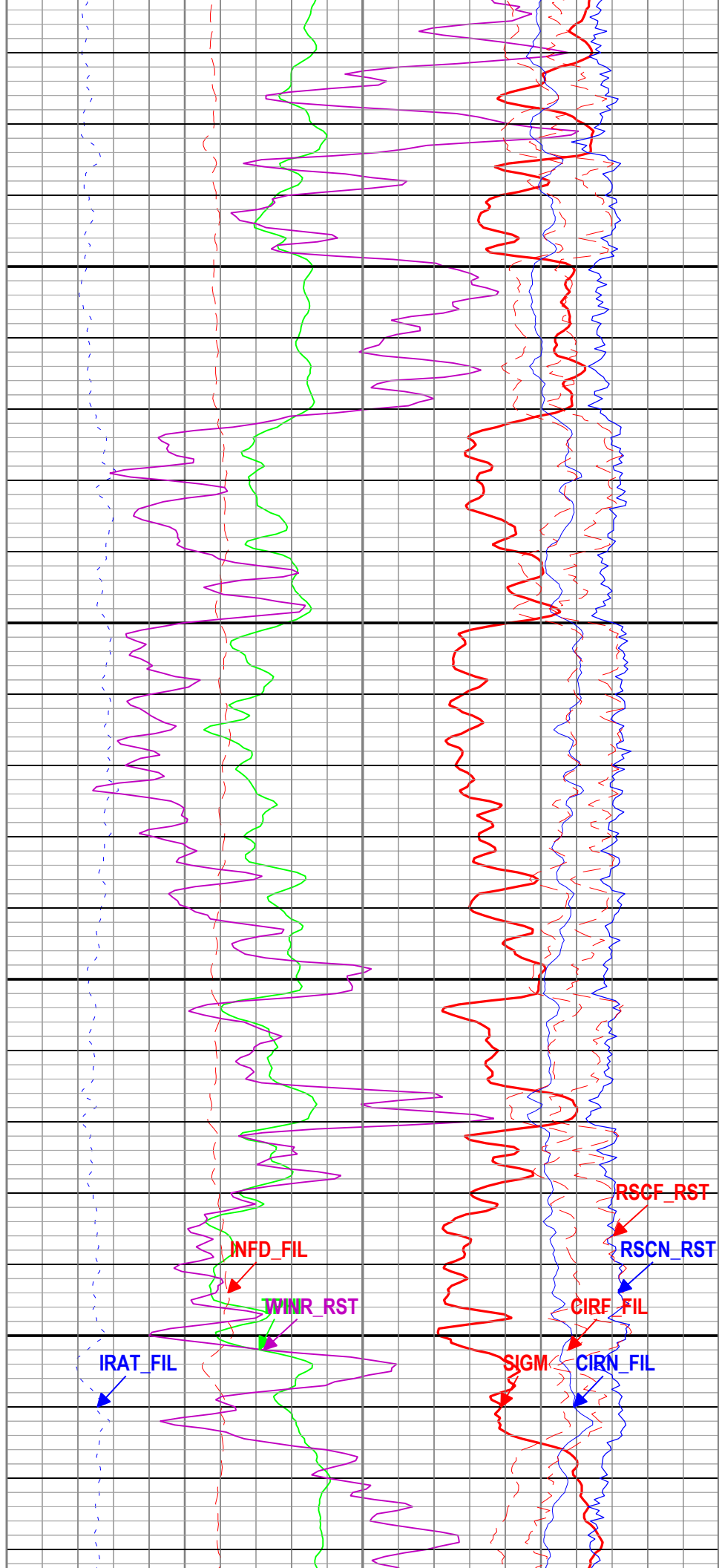
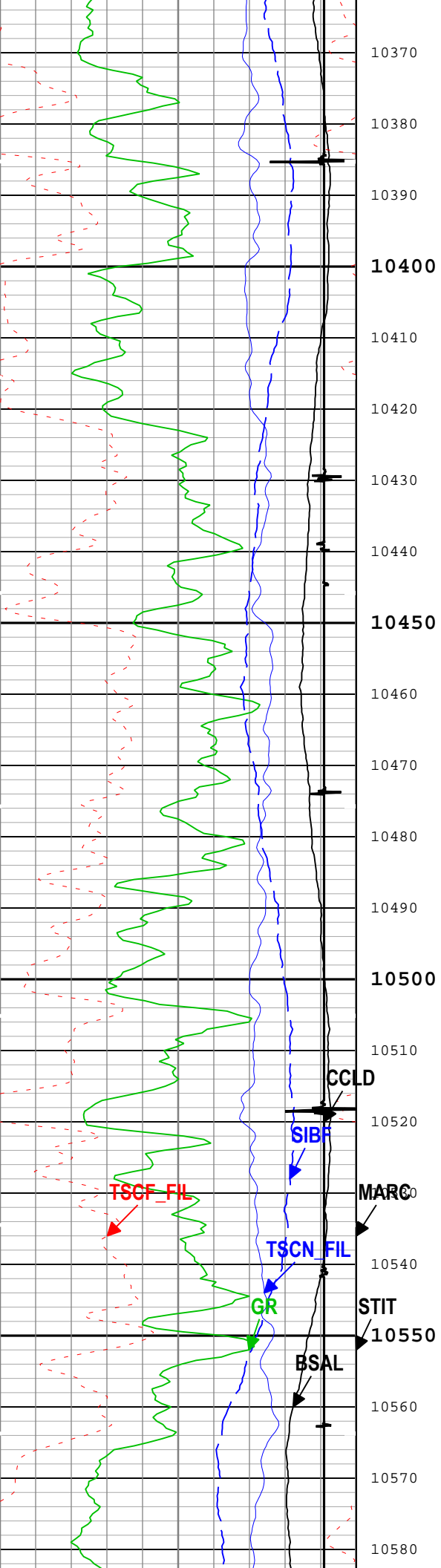


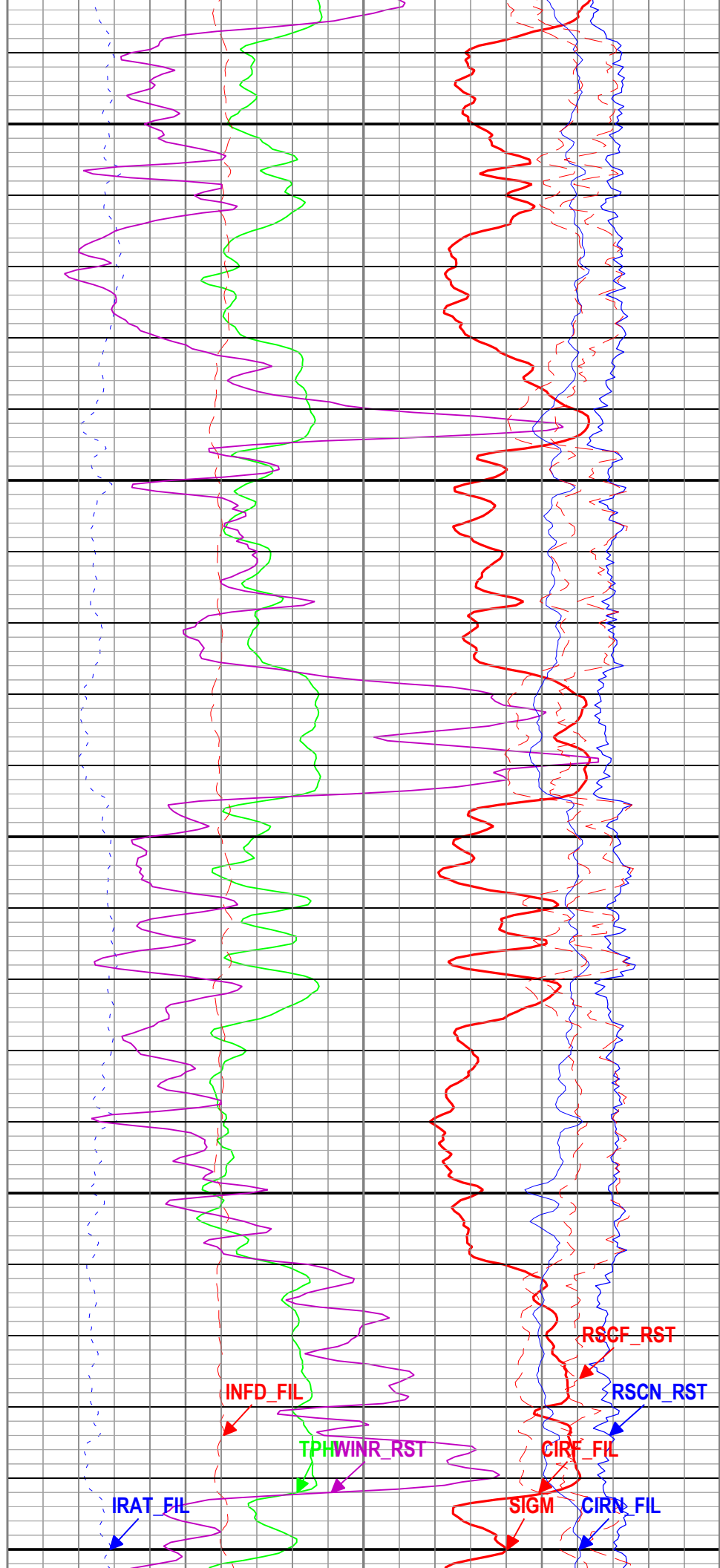
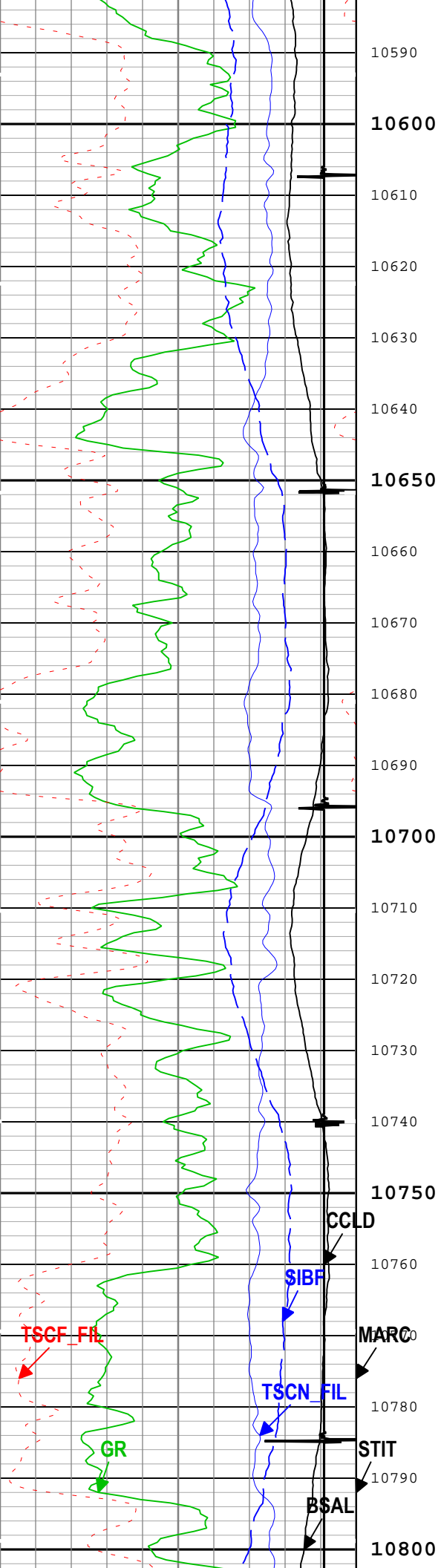




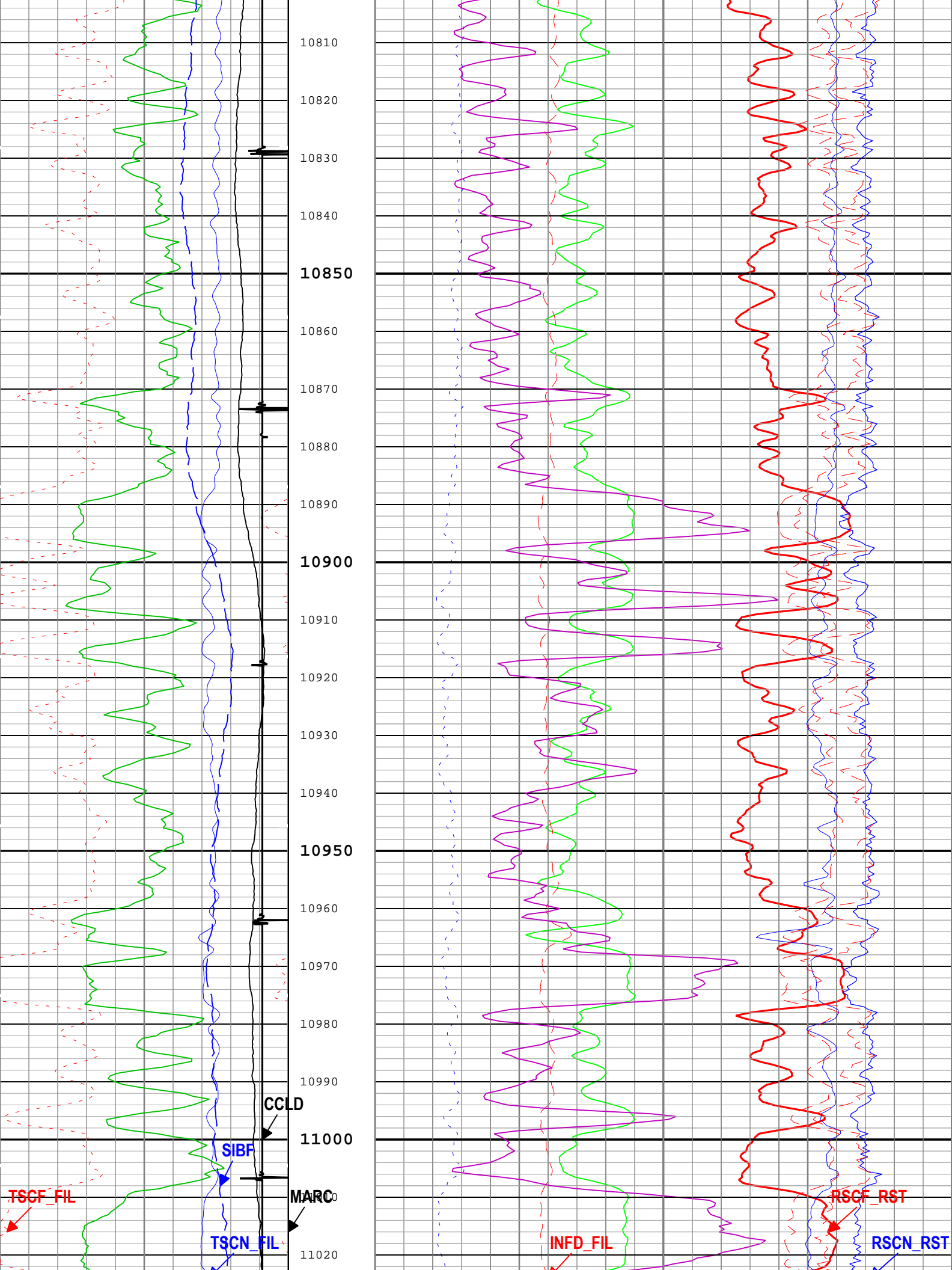


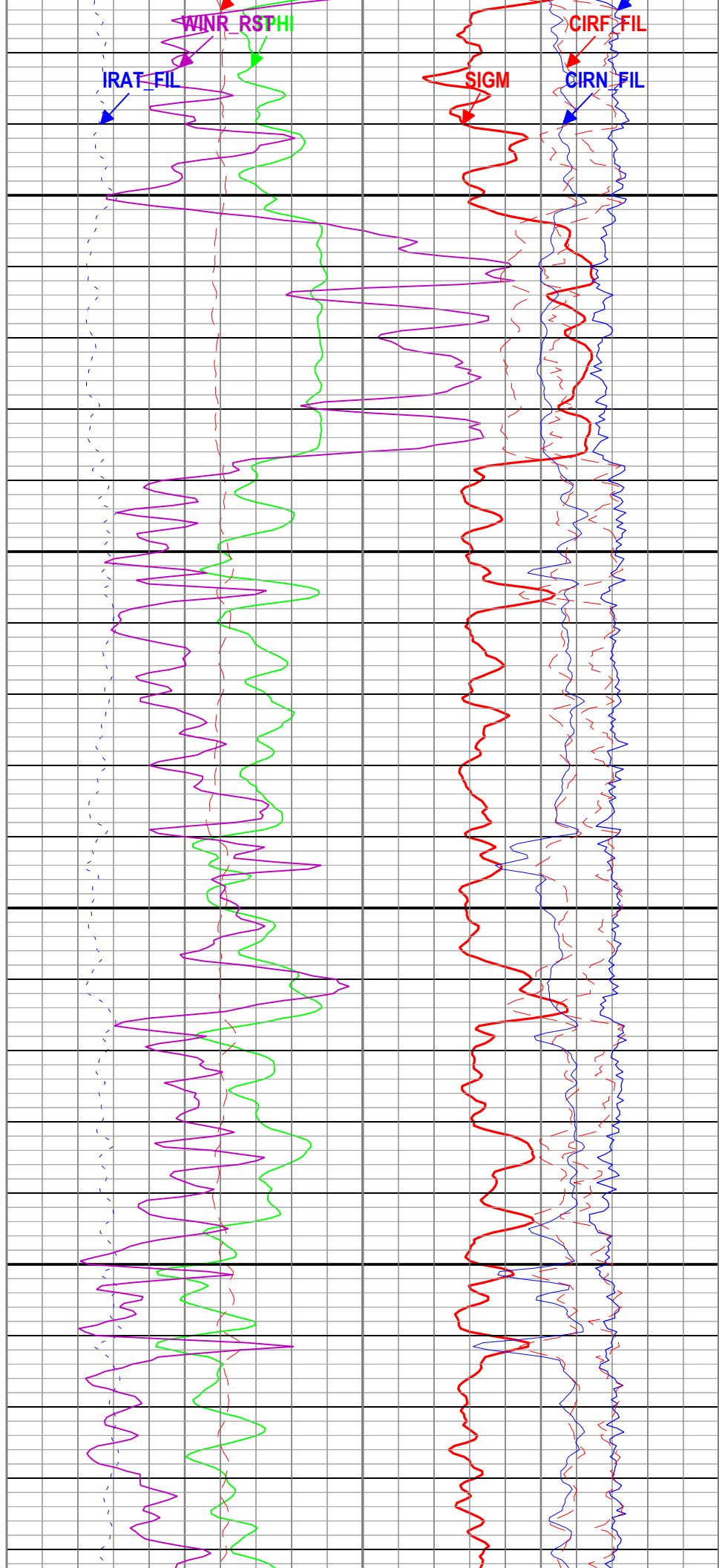
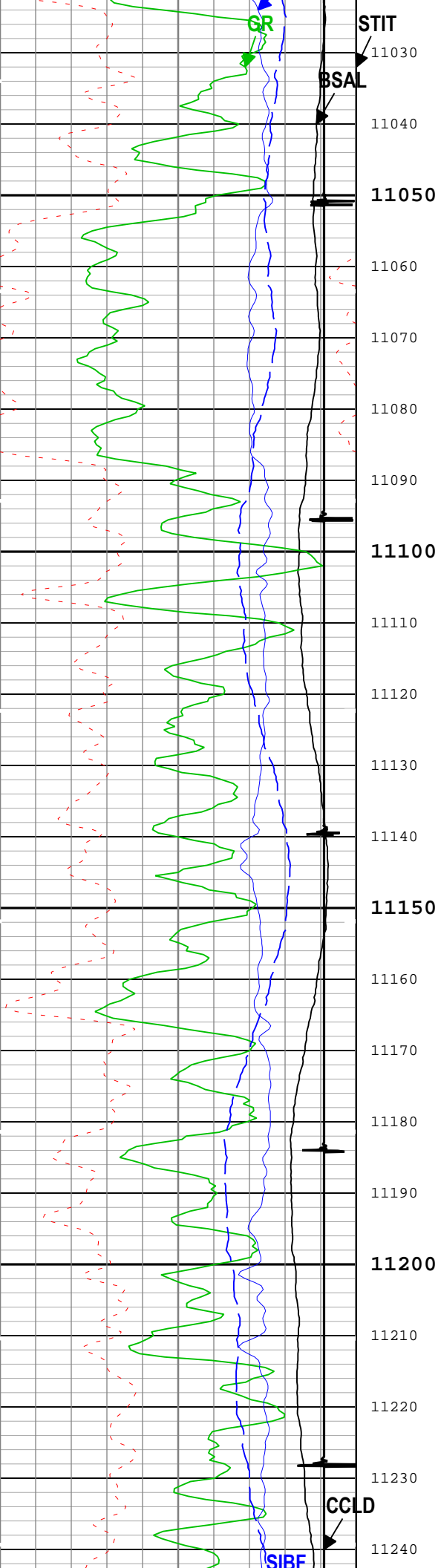


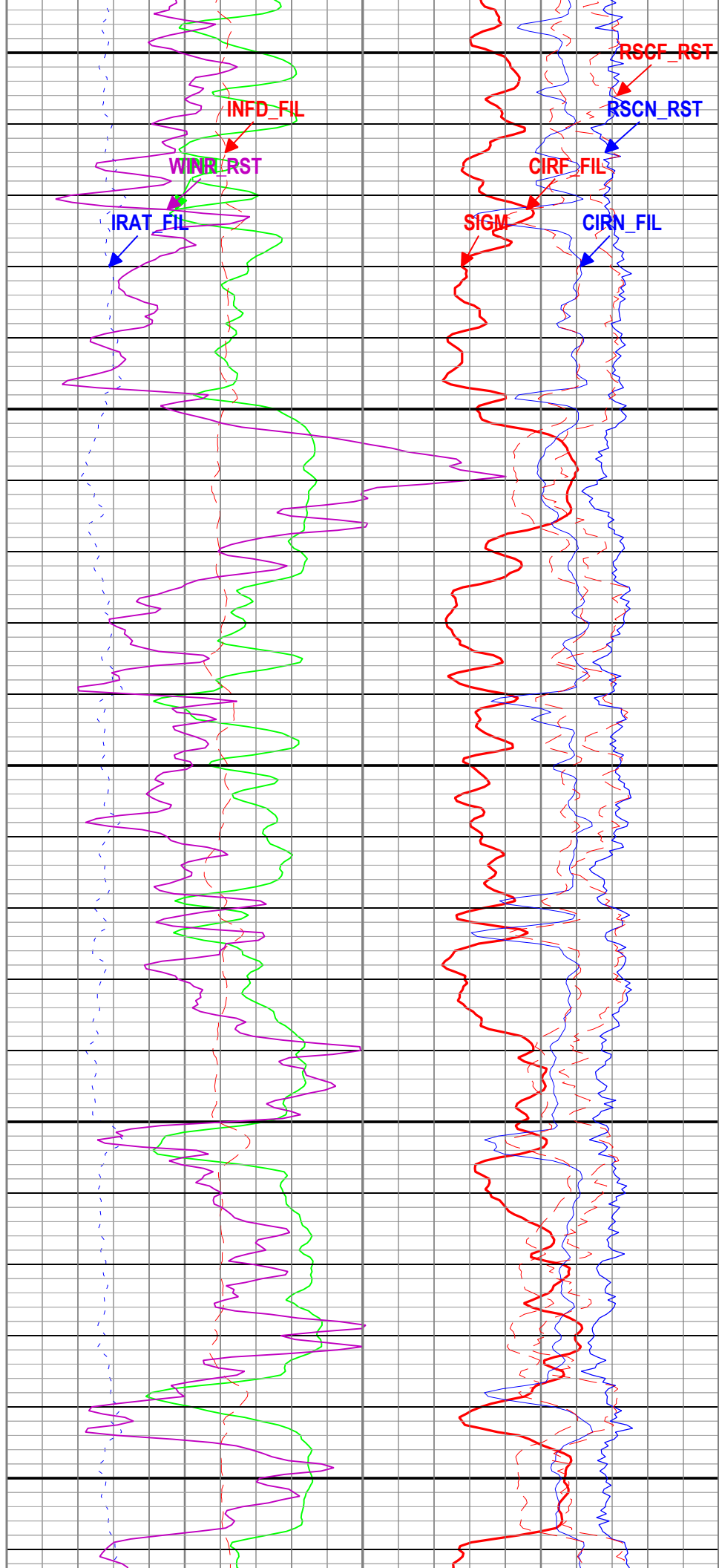
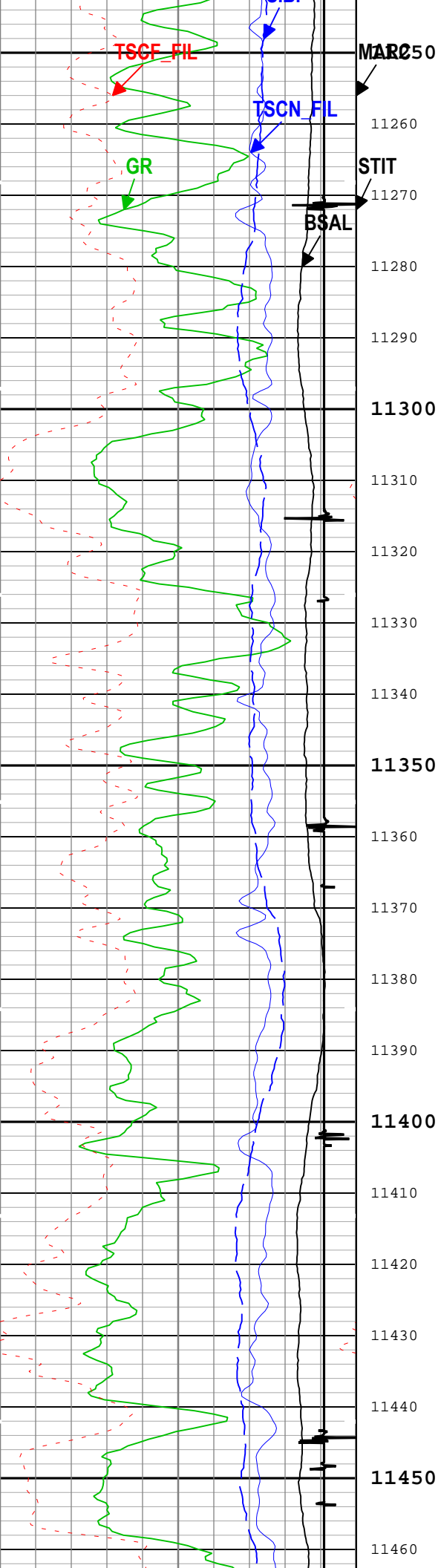


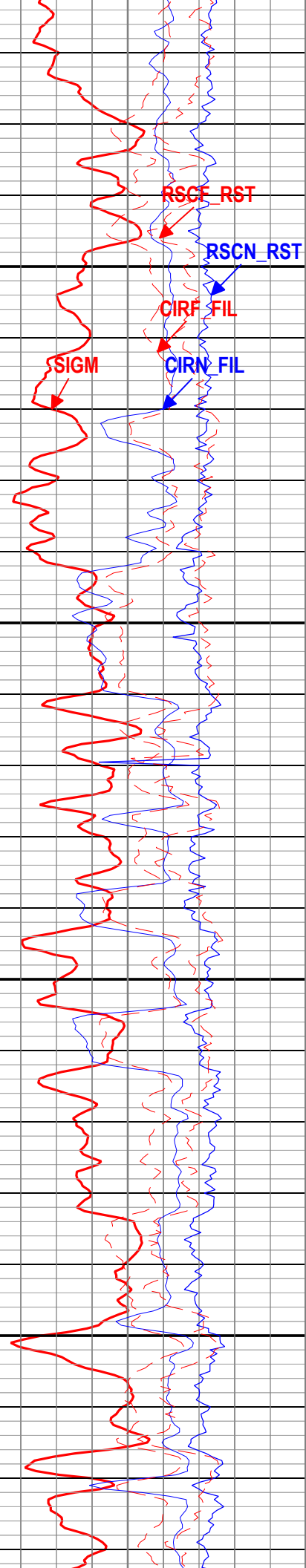
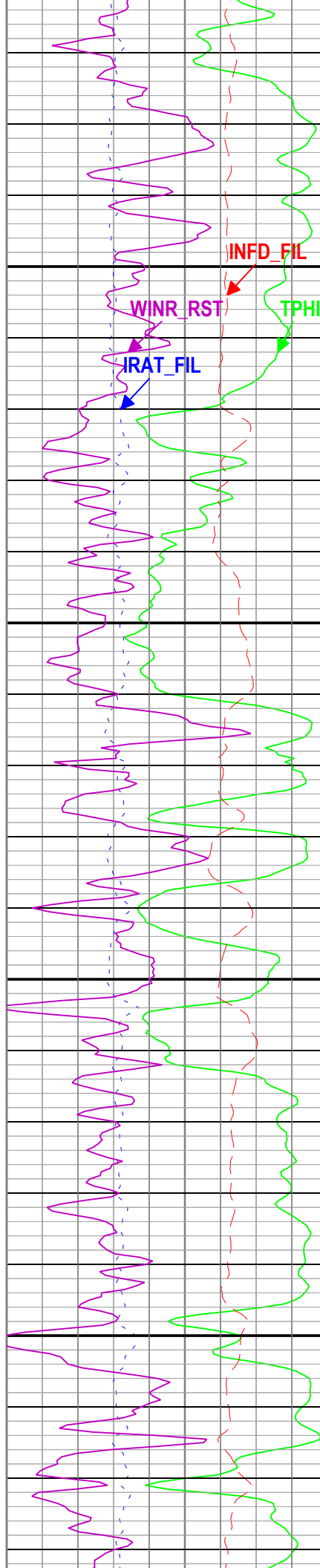
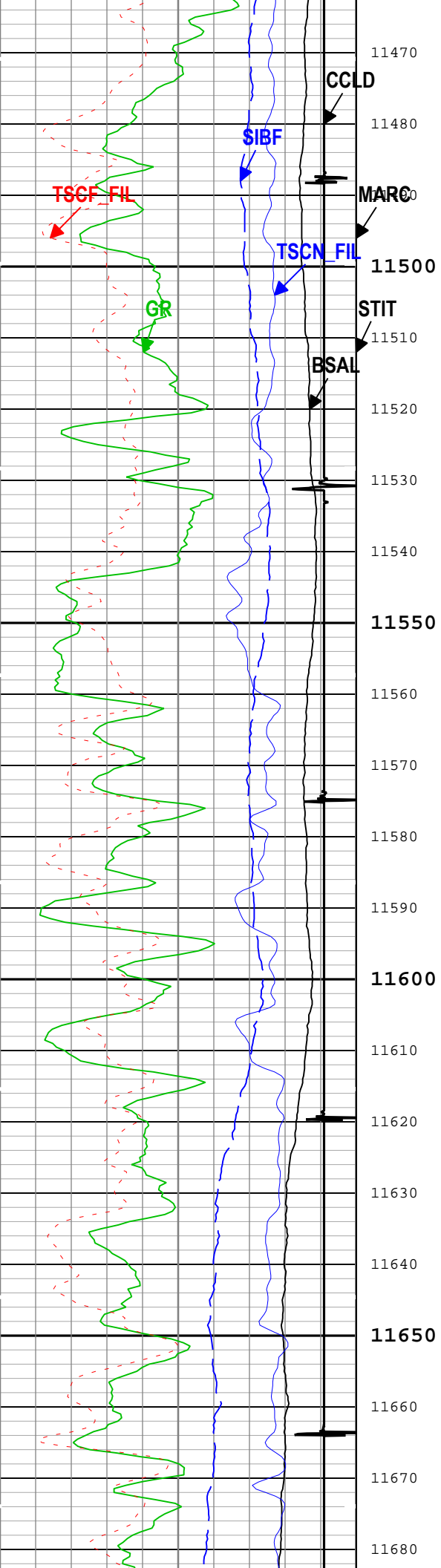




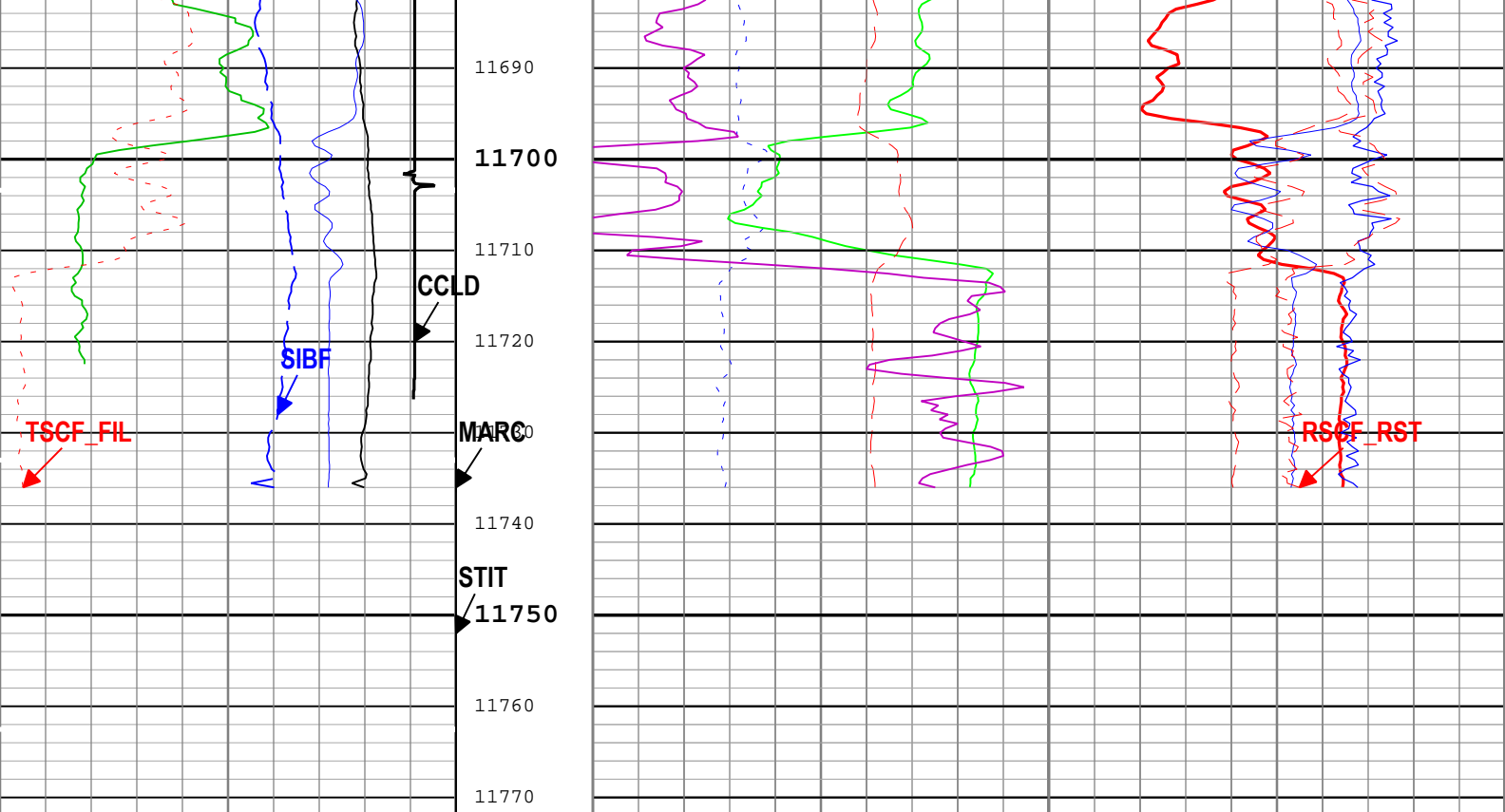












Borehole Salinity (BSAL) RST-C			Stuck Tool Indicator, Total (STIT)	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
450	ppk	-50		60	cu	0
Gamma Ray (GR) PSTP-E			0 ft 50	Weighted Inelastic Ratio (WINR_RST) RST-C		
0	gAPI	150		0		0.4
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C			Cable Drag From STIA to STIT	Inelastic Ratio Filtered (IRAT_FIL) RST-C	Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C	
30000	1/s	0		0.75	0	2.5
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C			Tool_Tot. Drag From D3T to STIT	Thermal Decay Porosity (TPHI) RST-C	Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C	
12000	1/s	0		0.6	0	5
Sigma Borehole Fluid (SIBF) RST-C			Minitron Arc Count (MARC) RST-C	Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C	Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C	
100	cu	0		10000	1/s	0
CCL Discriminated Amplitude (CCLD) PSTP-E			0 5	Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C		
-10	V	1		45		0

- ICV - Integrated Cement Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)
- IHV - Integrated Hole Volume every 100.00 (ft3)
- IHV - Integrated Hole Volume every 10.00 (ft3)
- TIME\_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)

TIME\_1900 - Time Marked every 60.00 (s)

Description: RST SIGMA Answer    Format: Log ( RST SIGMA Answer )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 09-Mar-2019 13:04:24

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	

BS	Bit Size	WLSESSION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	0	ppm
BSALOPT	Borehole Salinity Option	RST-C	Unknown	
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	

### Depth Zone Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
BS	14.75	1850	2987.6
BS	8.75	2987.6	9379
BS	8.5	9379	11772.19

All depth are actual.

## Tool Control Parameters

## ONE: Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-E	0 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

## ONE

CBL-VDL REPEAT PASS [5:100]

## Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100
Application Patch	Wireline_Hotfix-Mandatory-2018.2_8.2.108371

## Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[5]:Up	Up	3052.80 ft	3406.30 ft	09-Mar-2019 12:43:35 PM	09-Mar-2019 12:55:17 PM	ON	0.00 ft	Yes

All depths are referenced to toolstring zero

## Log

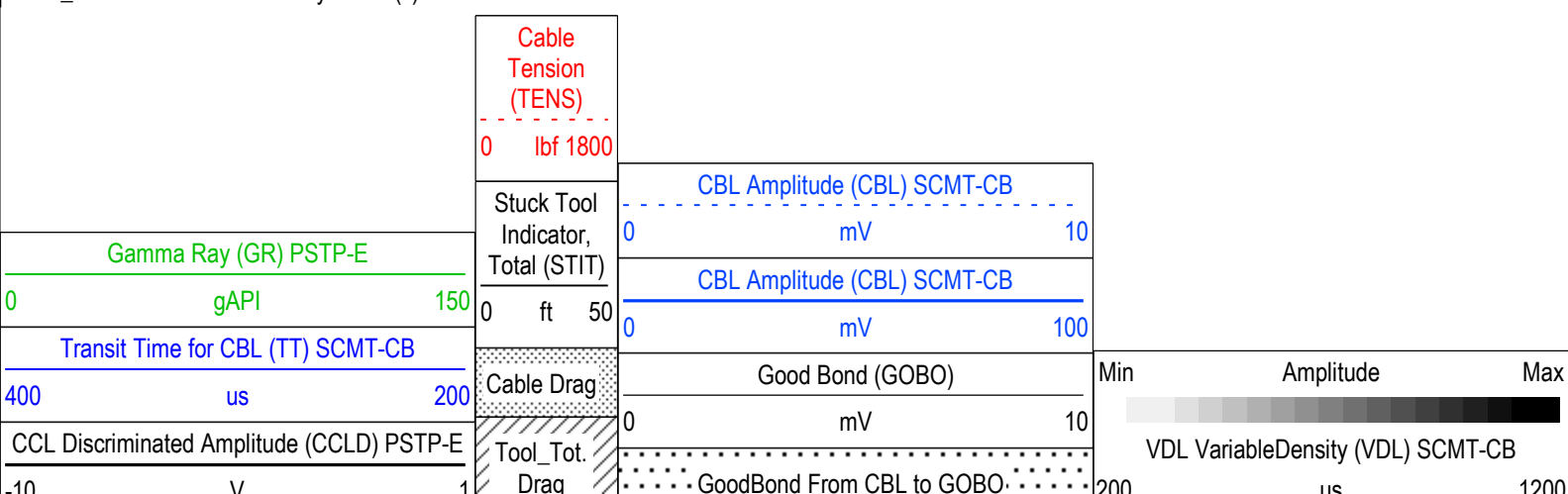
Company: CAERUS OIL & GAS LLC      Well: NPR 24D-3 596

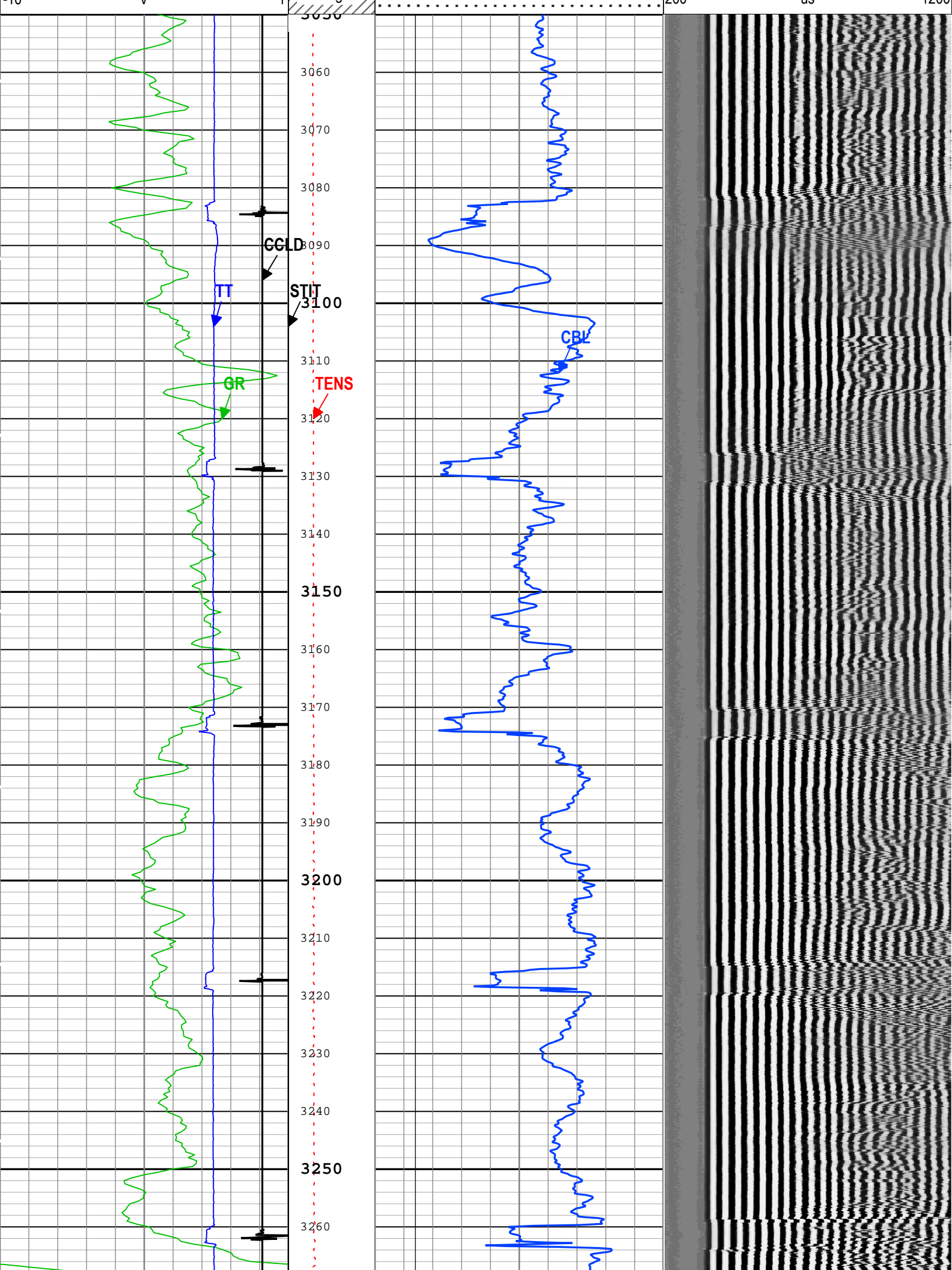
ONE: Log[5]:Up:S004

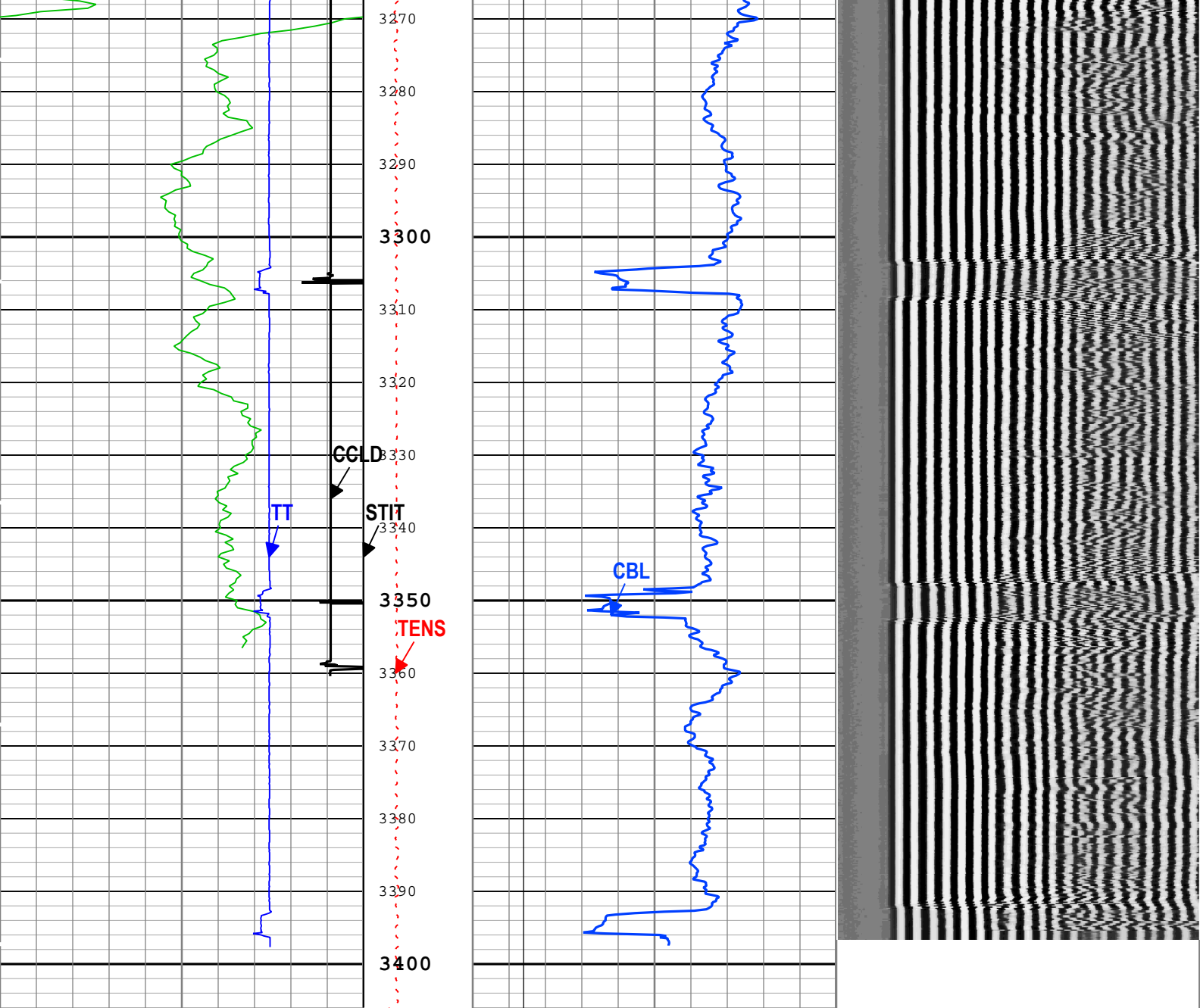
Description: Sonic CBL with VDL   Format: Log ( Sonic CBL with VDL )   Index Scale: 5 in per 100 ft   Index Unit: ft   Index Type: Measured Depth   Creation Date: 09-Mar-2019 13:04:32

■ BIEP - Bond Index Event Pips SCMT-CB

TIME 1900 - Time Marked every 60.00 (s)







Gamma Ray (GR) PSTP-E			Cable Tension (TENS)	CBL Amplitude (CBL) SCMT-CB			<div><div></div></div> <div>VDL VariableDensity (VDL) SCMT-CB</div>				
0	gAPI			150	0	mV		10			
Transit Time for CBL (TT) SCMT-CB				0	CBL Amplitude (CBL) SCMT-CB			200			
400	us		200	0	mV		100	200	us		1200

Cable Tension (TENS)		GoodBond From CBL to GOBO	
0	lbf 1800		
Stuck Tool Indicator, Total (STIT)			
0	ft 50		
Cable Drag			
Tool_Tot. Drag			

TIME\_1900 - Time Marked every 60.00 (s)

■ BIEP - Bond Index Event Pips SCMT-CB

Description: Sonic CBL with VDL    Format: Log ( Sonic CBL with VDL )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 09-Mar-2019 13:04:32



Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	57	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
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	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8331	ft
FCF	CBL Fluid Compensation Factor	SCMT-CB	1	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	1.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	16.92	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	1.25	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	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-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-E	0 dB	

ONE

RST SIGMA REPEAT PASS [5:100]

Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100
Application Patch	Wireline_Hotfix-Mandatory-2018.2_8.2.108371

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[5]:Up	Up	3052.80 ft	3406.30 ft	09-Mar-2019 12:43:35 PM	09-Mar-2019 12:55:17 PM	ON	0.00 ft	Yes

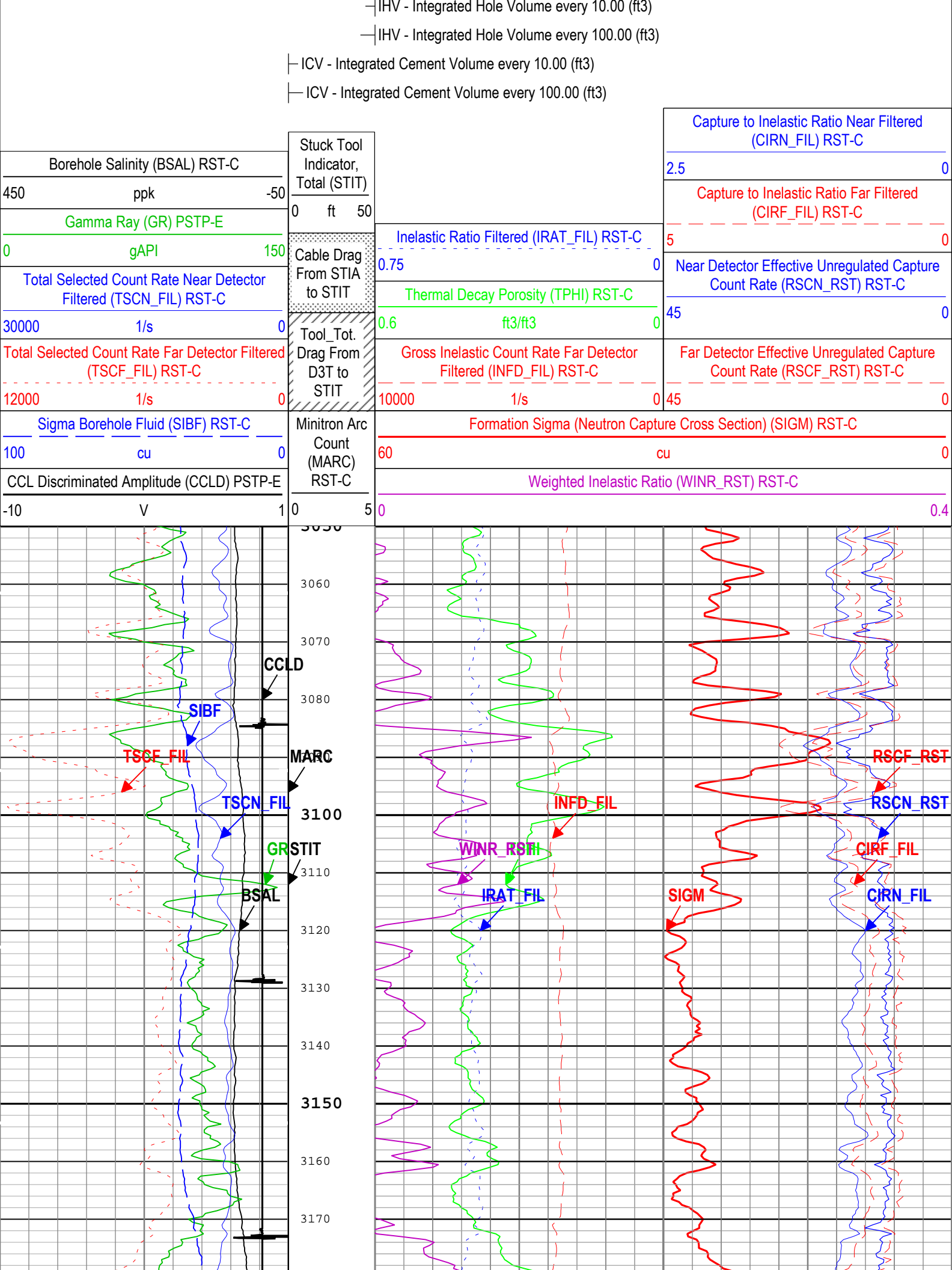
All depths are referenced to toolstring zero

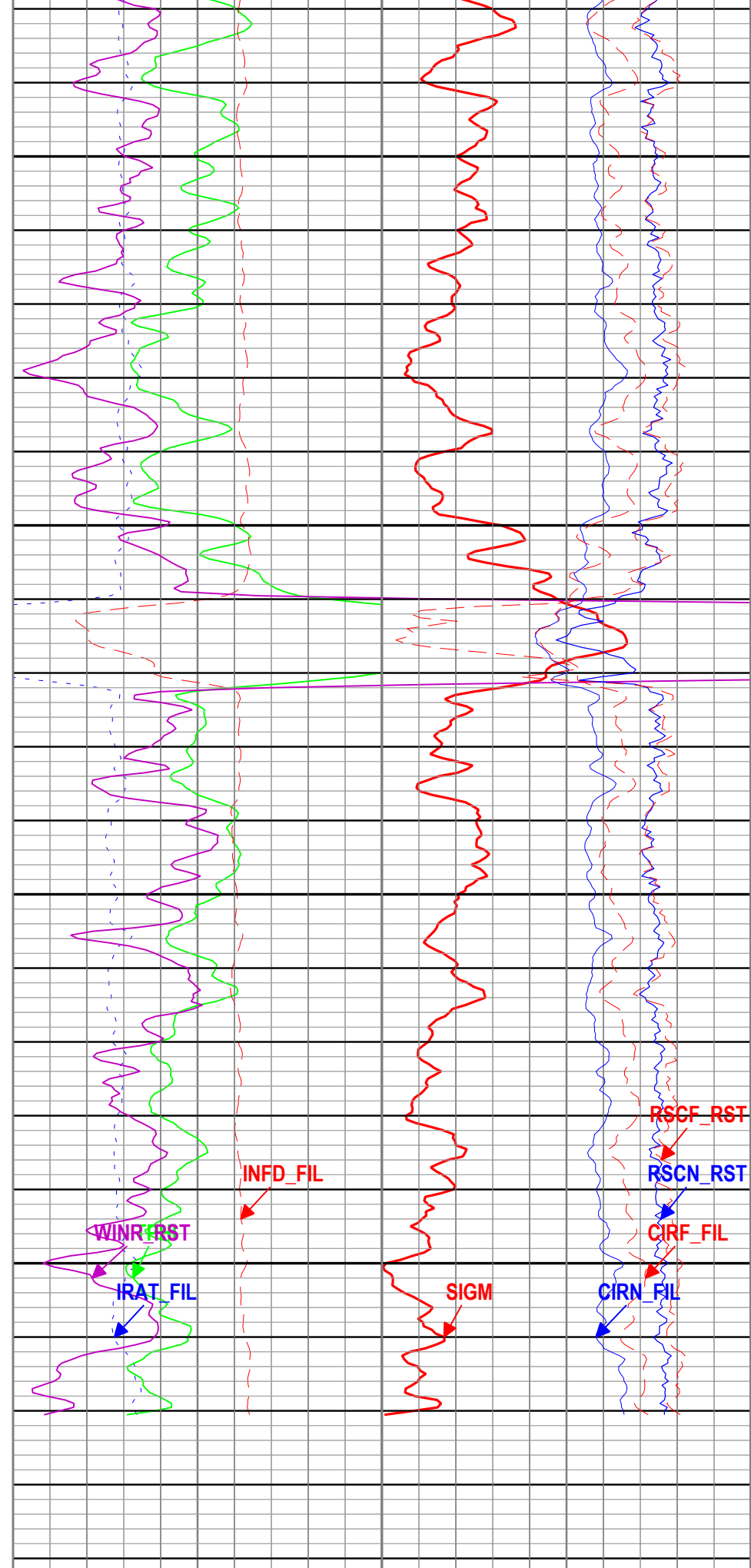
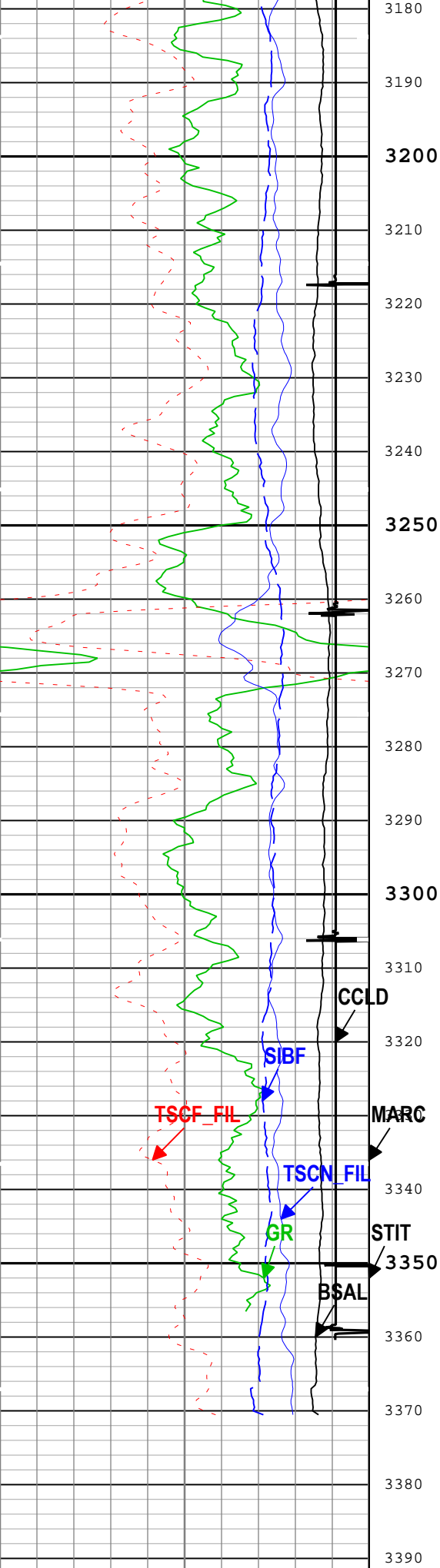
Log	Company:CAERUS OIL & GAS LLC	Well:NPR 24D-3 596
		ONE: Log[5]:Up:S004

Description: RST SIGMA Answer    Format: Log ( RST SIGMA Answer )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 09-Mar-2019 13:04:34

TIME\_1900 - Time Marked every 60.00 (s)

TIME\_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)





<ul style="list-style-type: none"> <li>└─ ICV - Integrated Cement Volume every 100.00 (ft3)</li> <li>└─ ICV - Integrated Cement Volume every 10.00 (ft3) <ul style="list-style-type: none"> <li>└─ IHV - Integrated Hole Volume every 100.00 (ft3)</li> <li>└─ IHV - Integrated Hole Volume every 10.00 (ft3)</li> </ul> </li> <li>─ TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)</li> </ul>
---

Description: RST SIGMA Answer	Format: Log ( RST SIGMA Answer )	Index Scale: 5 in per 100 ft	Index Unit: ft	Index Type: Measured Depth	Creation Date: 09-Mar-2019 13:04:34
-------------------------------	----------------------------------	------------------------------	----------------	----------------------------	-------------------------------------

## ONE: Parameters

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

Parameter	Description	Tool	Value	Unit
-----------	-------------	------	-------	------

MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-E	0 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	



Company:	CAERUS OIL & GAS LLC	Schlumberger
Well:	NPR 24D-3 596	
Field:	NPR	
County:	GARFIELD	
State:	COLORADO	
CEMENT BOND LOG		
RST SIGMA LOG		
GAMMA RAY - COLLAR LOCATOR LOG		