

Company: CAERUS OIL & GAS LLC

Well: NPR 23D-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 23D-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:	Range:	
5045240010000	3	5S	96W	

Logging Date 08-Mar-2019

Run Number ONE

Depth Driller 11554.00 ft

Schlumberger Depth 11554.00 ft

Bottom Log Interval 11403.00 ft

Top Log Interval 2000.00 ft

Casing Fluid Type Water

Salinity

Density 8.4 lbm/gal

Fluid Level 8.00 ft

BIT/CASING/TUBING STRING

Bit Size 8.75 in

From 2984.20 ft

To 11554.00 ft

Casing/Tubing Size 4.5 in

Weight 11.6 lbm/ft

Grade P110

From 0.00 ft

To 11532.50 ft

Max Recorded Temperatures 275 degF

Logger on Bottom 08-Mar-2019 06:00:00

Unit Number MSLC-AR2 3007 EVANSTON,WY

Recorded By BEATRIZ GUATTA / ANTHONY VOYAGE

Witnessed By ED KOENIG

Disclaimer

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

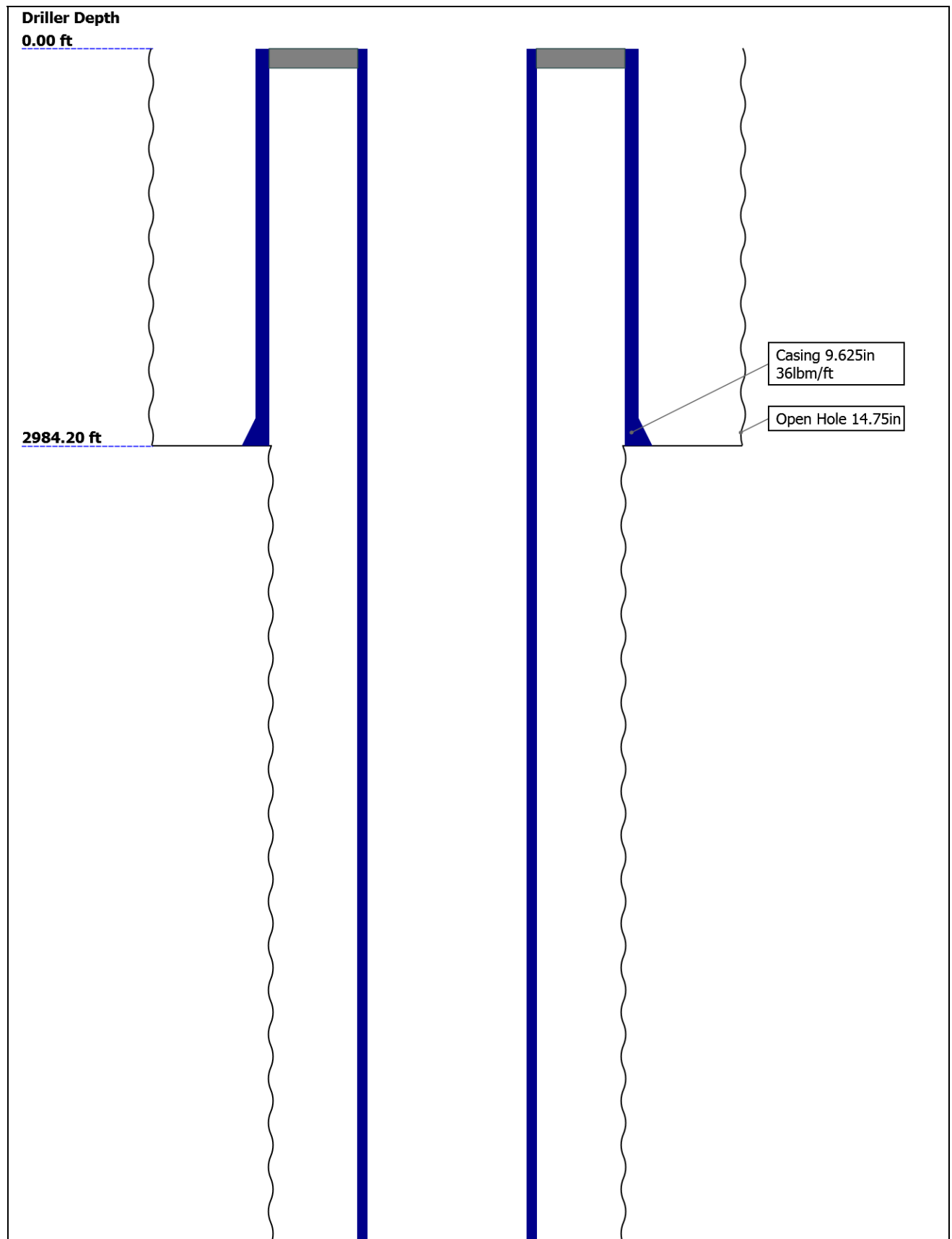
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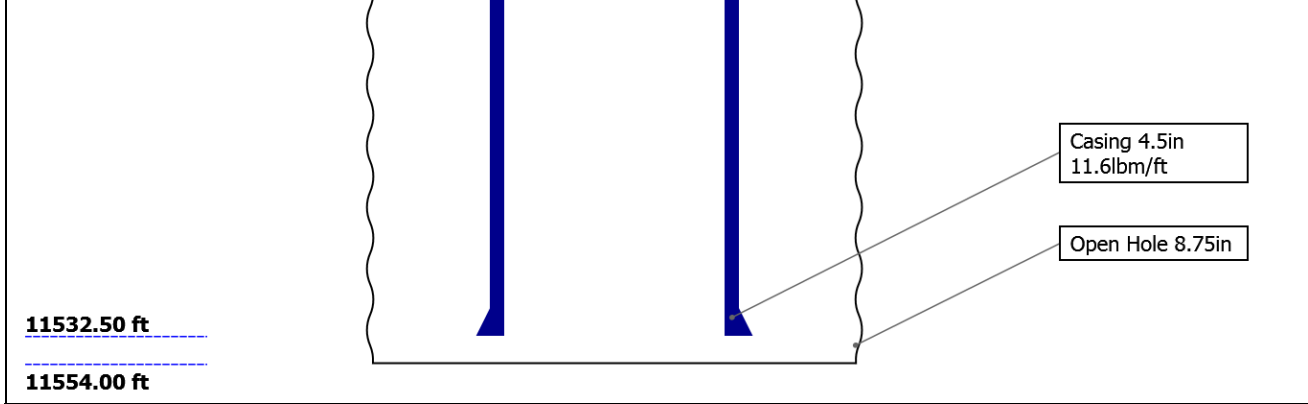
10.2 Software Version

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Well Sketch



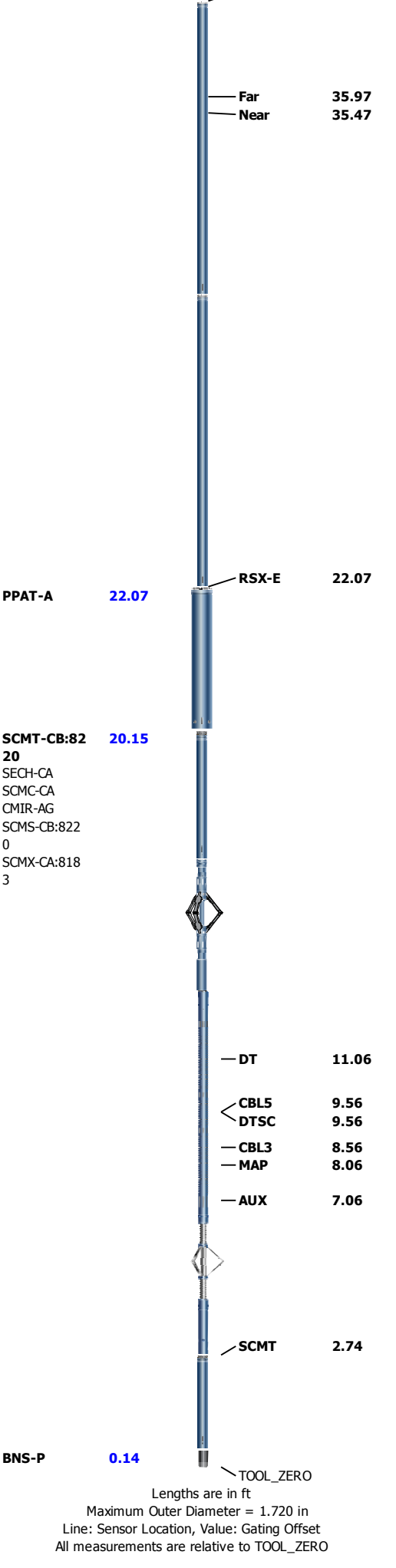


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	14.75	8.75				
Top Driller (ft)	0	2984.2				
Top Logger (ft)	0	2984.2				
Bottom Driller (ft)	2984.2	11554				
Bottom Logger (ft)	2984.2	11554				
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)	2984.2	11532.5				
Bottom Logger (ft)	2984.2	11532.5				

Remarks and Equipment Summary

ONE: Toolstring				ONE: Remarks
Equip name	Length	MP name	Offset	THANK YOU FOR CHOOSING SCHLUMBERGER! TOOLSTRING RUN AS PER TOOLSKETCH. RST MODE: SIGMA MATRIX: SANDSTONE. GEMCOS USED FOR TOOL CENTRALIZATION. MAX RECORDED TEMPERATURE: 275DEGF. MAX RECORDED PRESSURE: 4747PSI. CYCLE SKIPPIND DUE TO GOOD QUALITY CEMENT. SLB DEPTH: 11403 FT
PEH-E	55.32			
AH-38	53.64			
PSTP-E:824	53.36			
PSC-A		GR	49.65	
PSTC-E:822		PSTC	49.36	
PBMS-E:824		PSTC Tool String Bottom	0.00	
Sapphire 175: 37216		Temperature	46.57	
		Board Temperature	46.45	
		Sapphire Pressure	46.45	
		CCL	45.84	
		PBMS	45.09	
RST-C:389	45.09			
RSCH-A:218				
RSC-E:270				
RSS-A:507				
MNTR-F:1688-51463				
RSXH-A:386				
RSX-E:389				
		RSC-E	38.73	

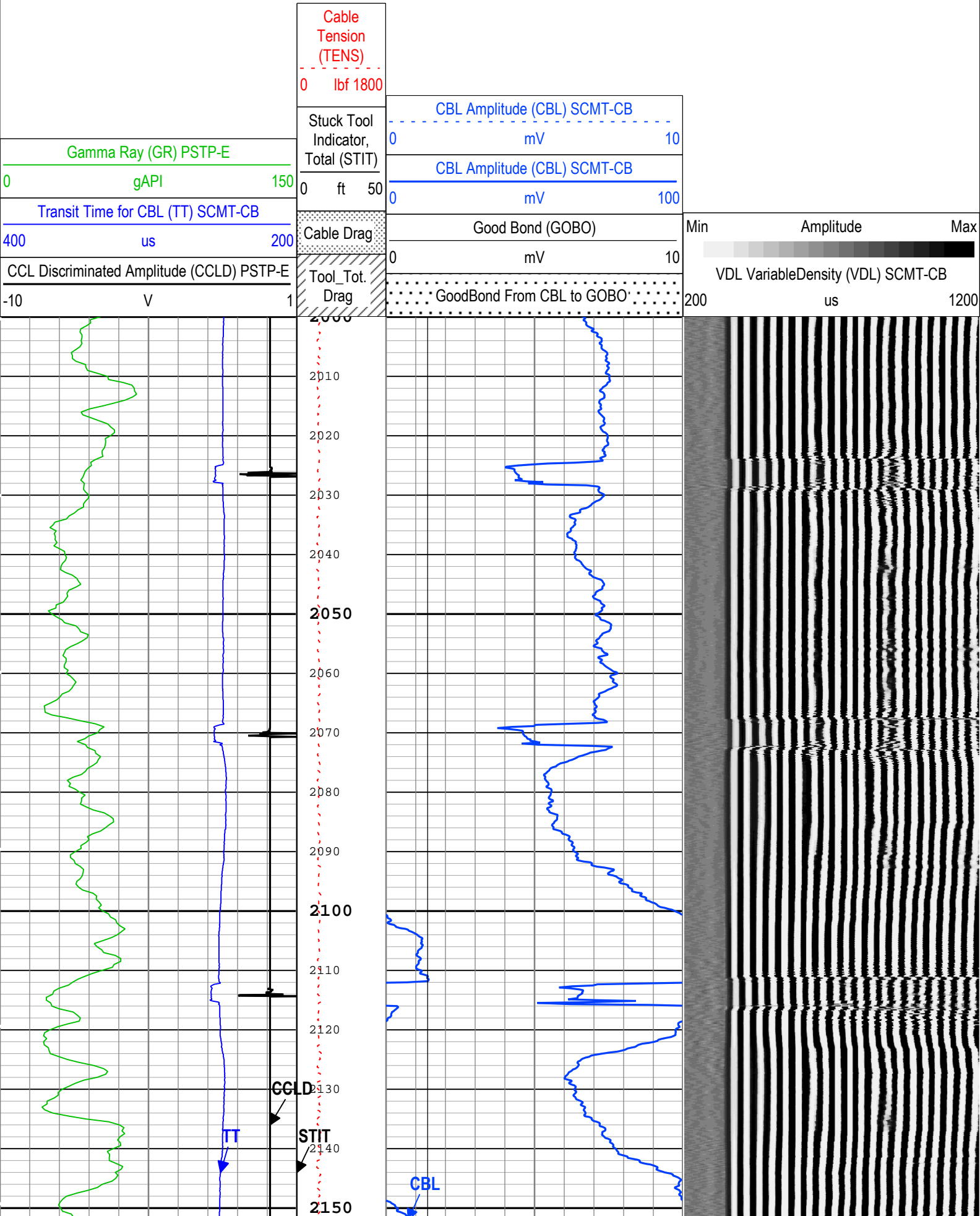


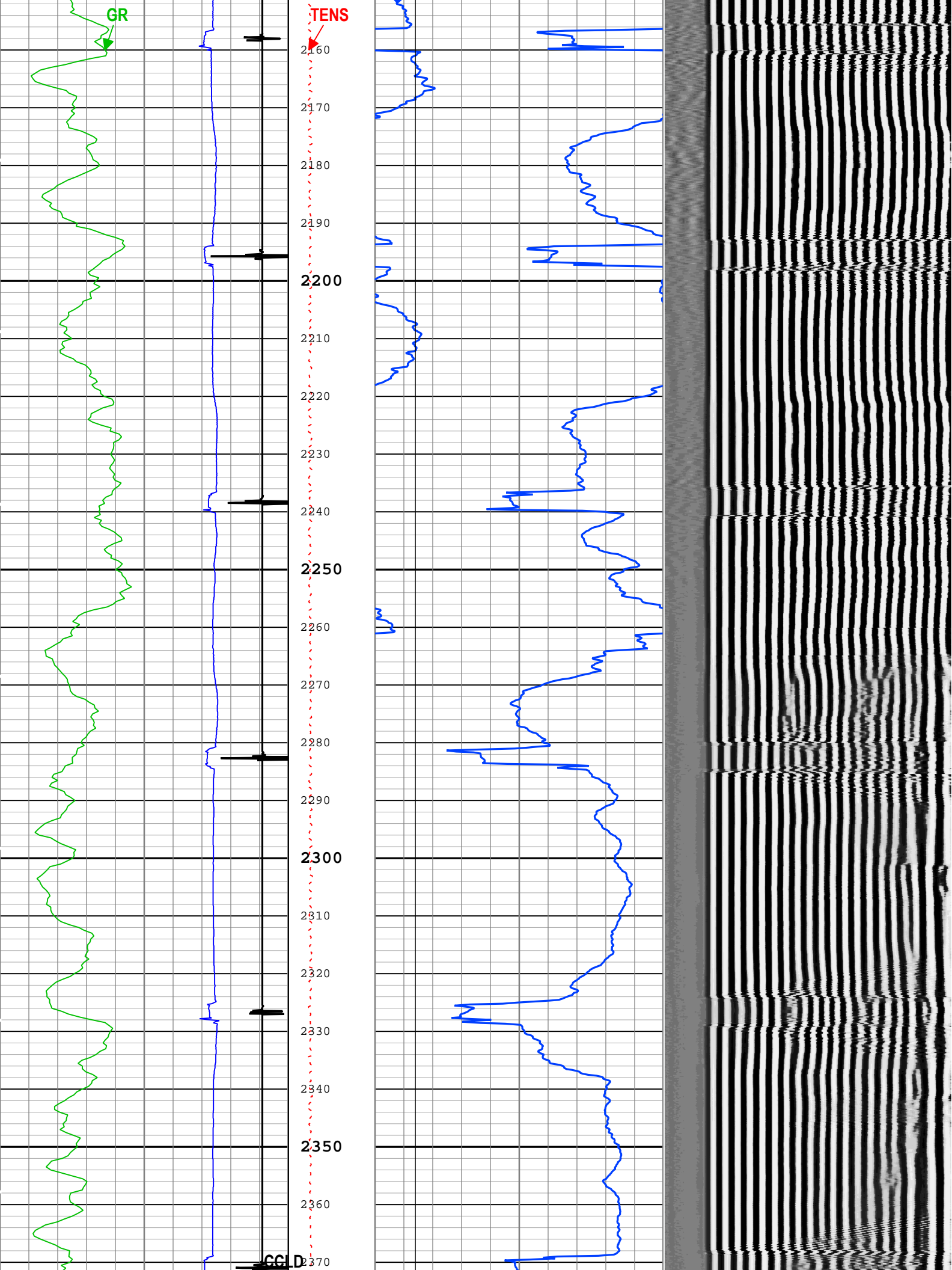
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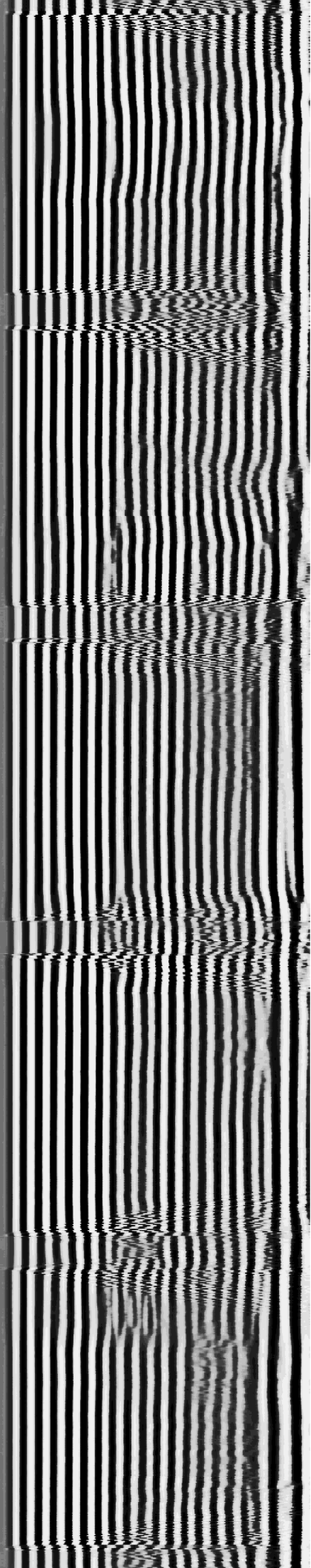
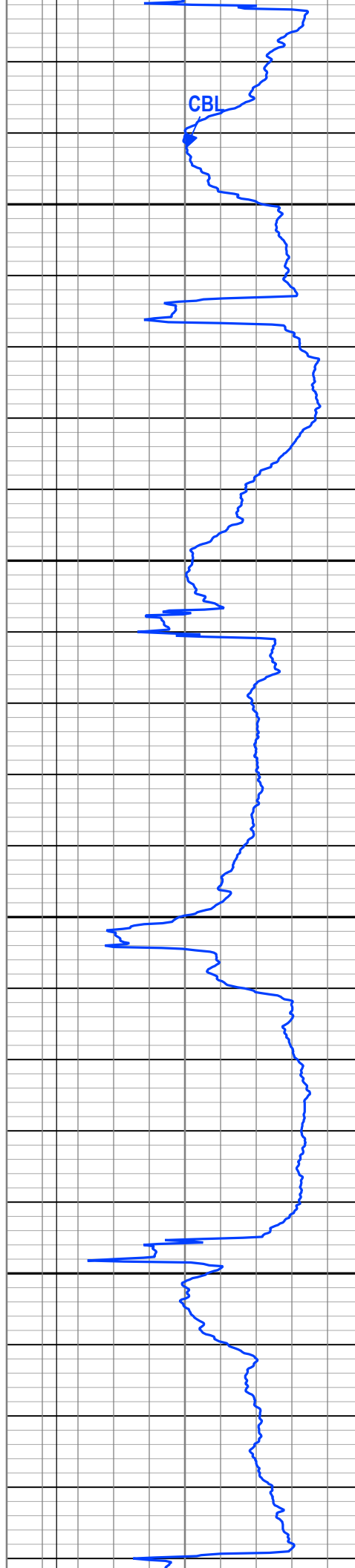
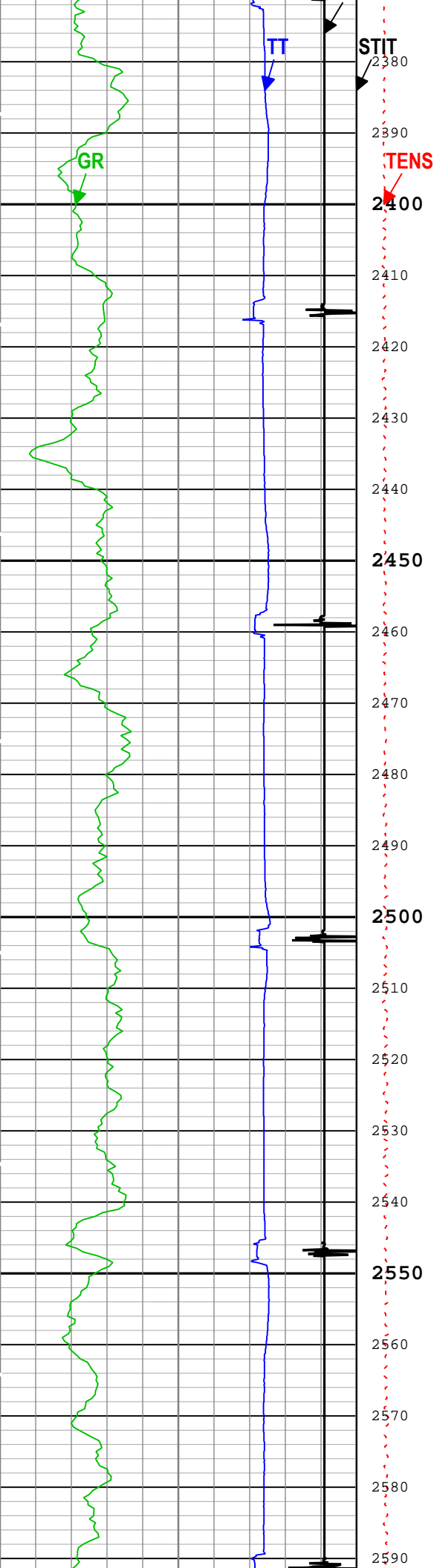
		ONE							
Depth Measuring Device									
Type		IDW-JA							
Serial Number		6912							
Calibration Date		21-JAN-2019							
Calibrator Serial Number		57							
Calibration Cable Type		1-25ZA-XXS							
Wheel Correction 1		-4							
Wheel Correction 2		-5							
Tension Device									
Type		CMTD-B/A							
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 CONTROL POLICES AND PROCEDURES FOLLOWED.				
Rig Up Length At Surface					IDW USED AS PRIMARY DEPTH CONTROL.				
Rig Up Length At Bottom					Z-CHART USED AS SECONDARY DEPTH CONTROL.				
Rig Up Length Correction					LOGS CORRELATED TO DOWN LOG.				
Stretch Correction									
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[7]:Up	Up	1808.84 ft	11419.18 ft	08-Mar-2019 5:12:27 AM	08-Mar-2019 10:34:27 AM	ON	10.57 ft	Yes
All depths are referenced to toolstring zero									
Log	Company:CAERUS OIL & GAS LLC Well:NPR 23D-3 596 ONE: Log[7]:Up:S004								

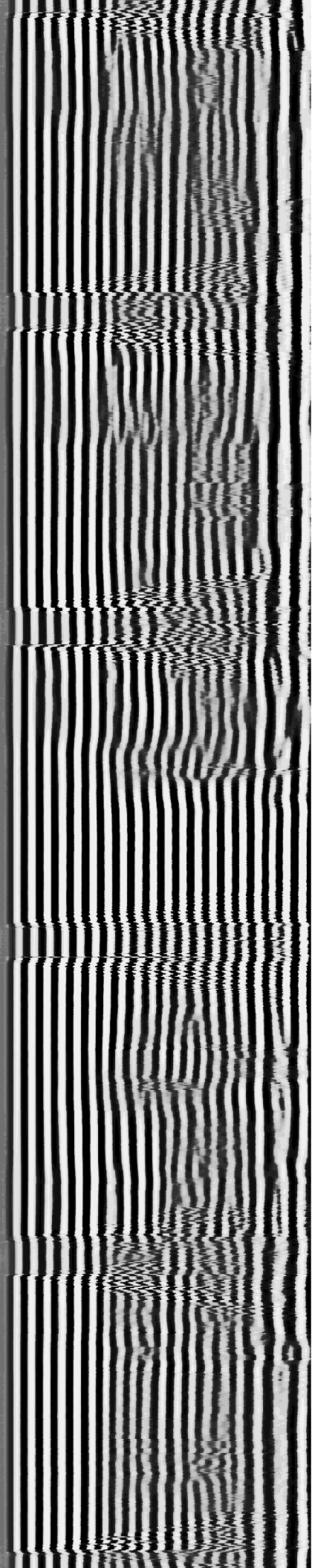
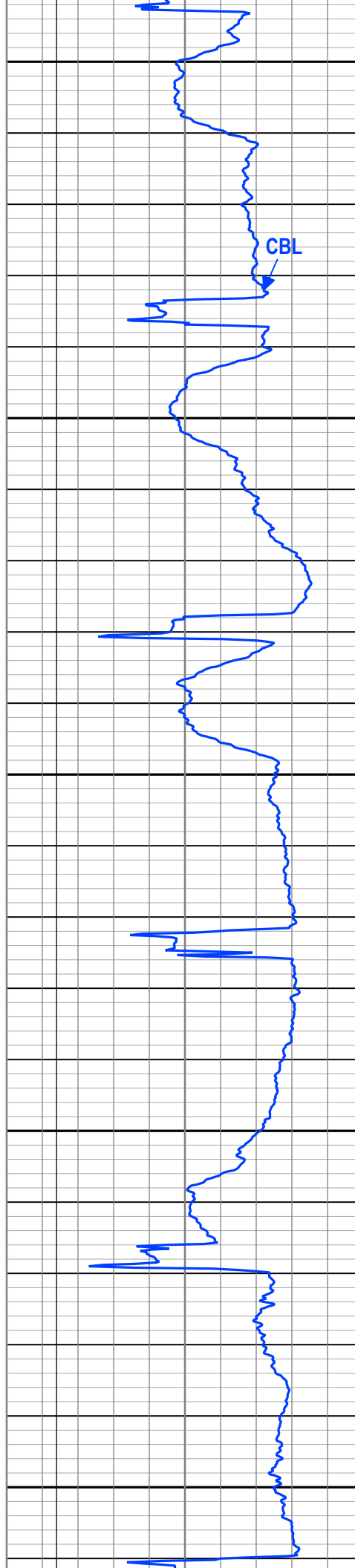
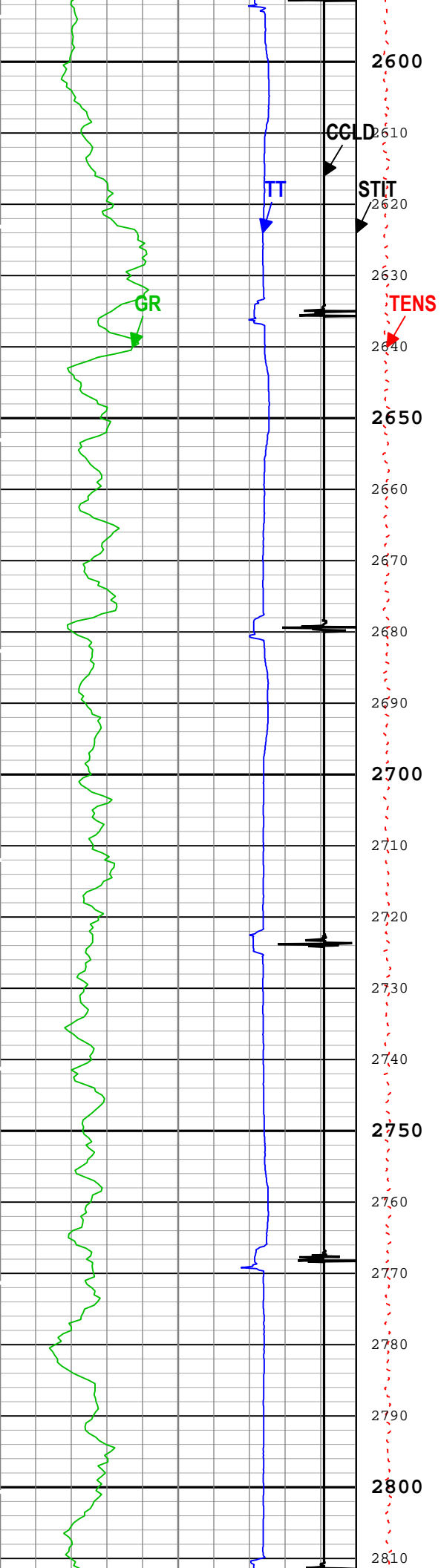
TIME_1900 - Time Marked every 60.00 (s)

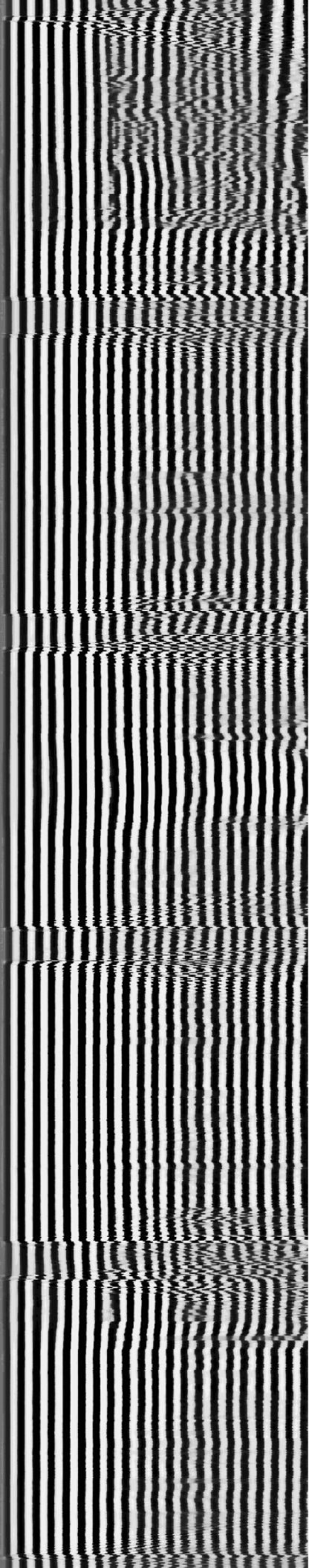
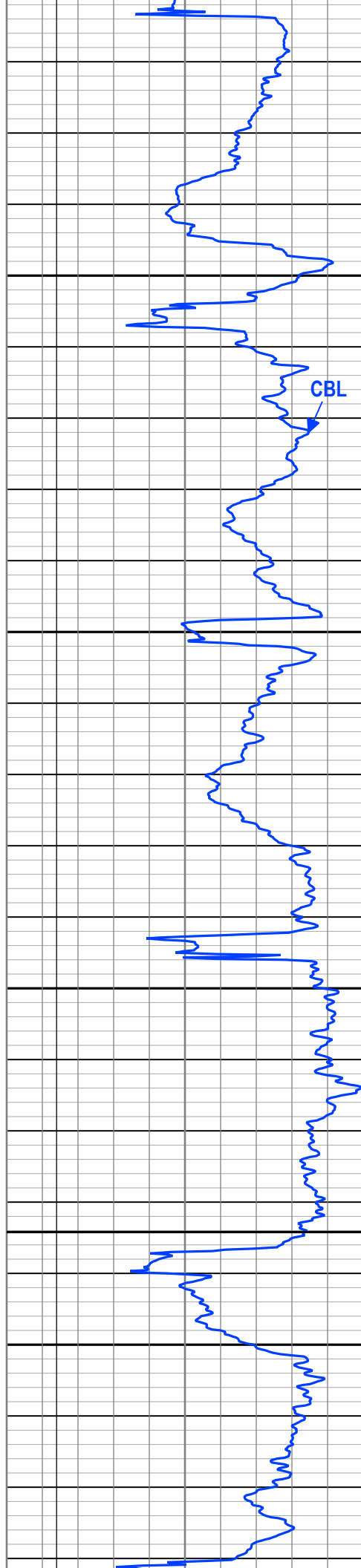
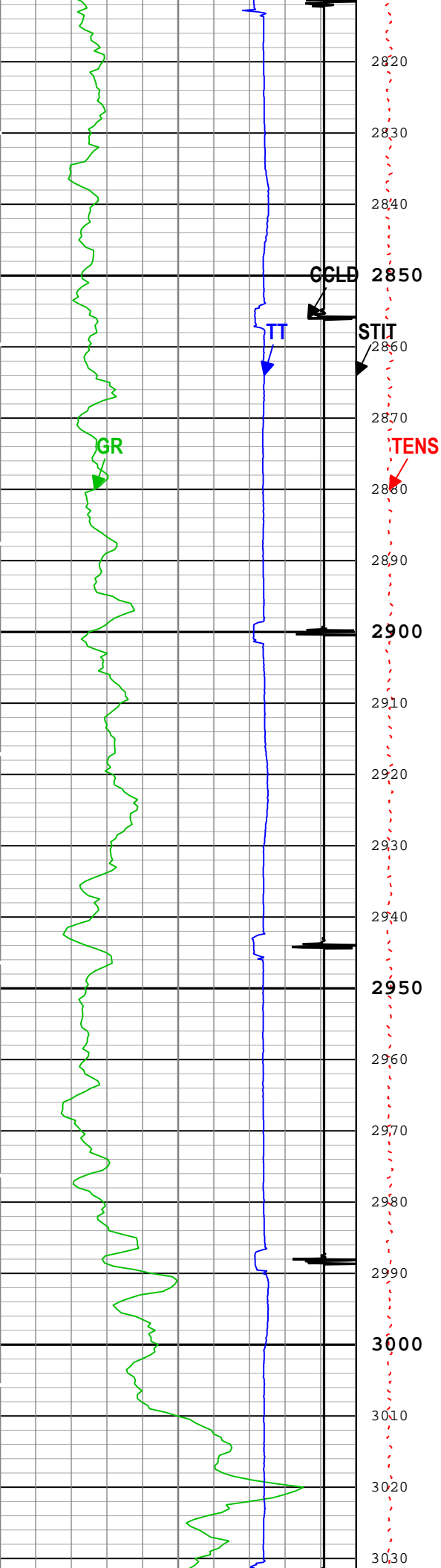
■ BIEP - Bond Index Event Pips SCMT-CB

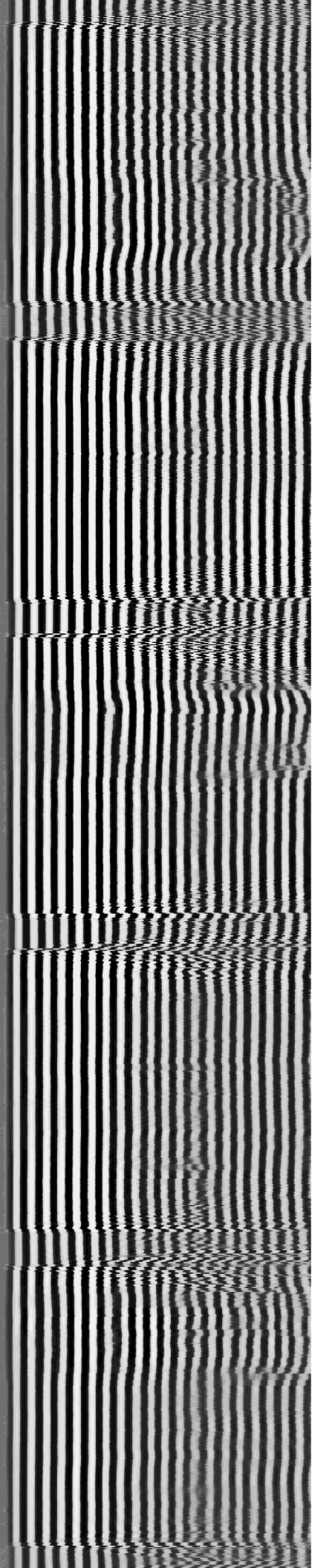
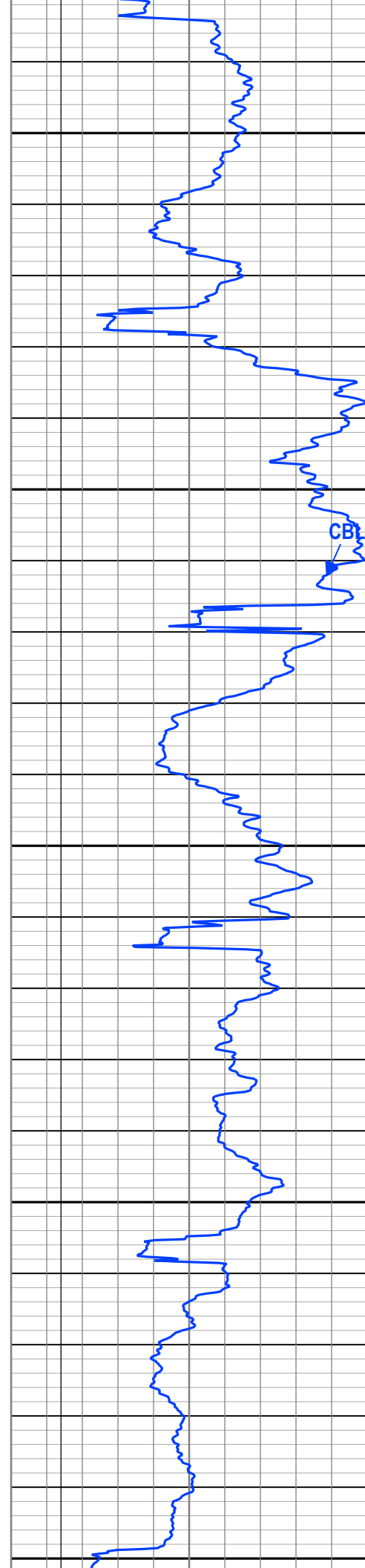
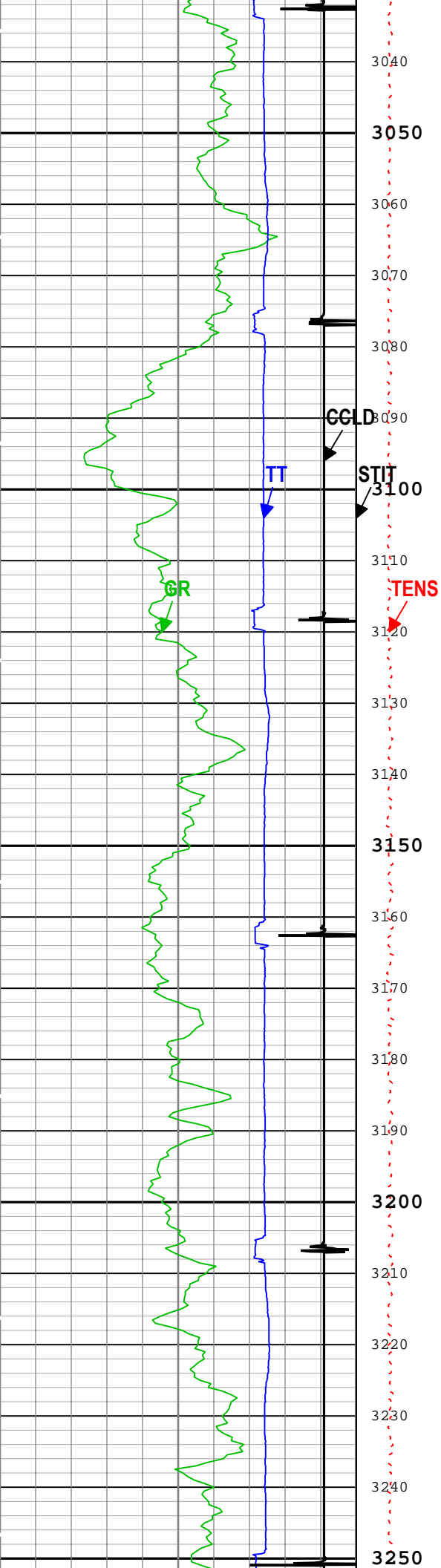


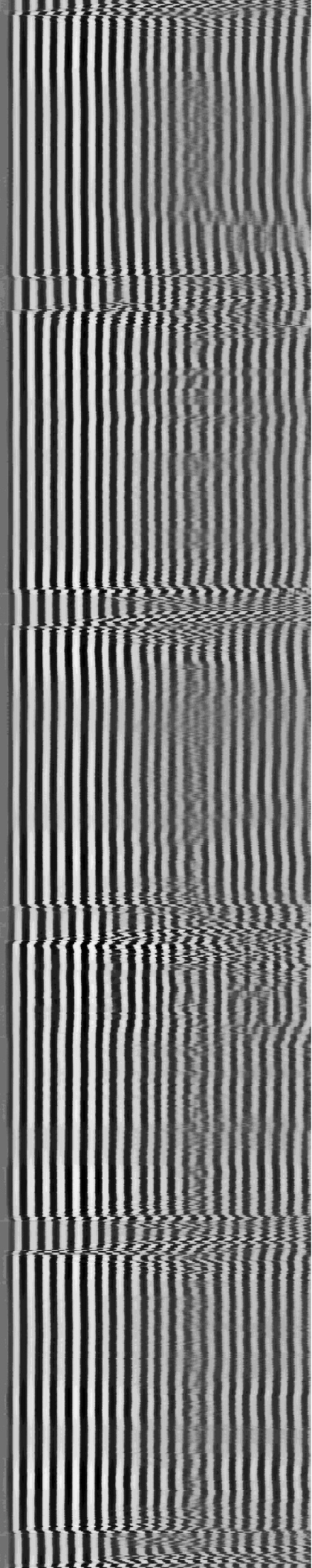
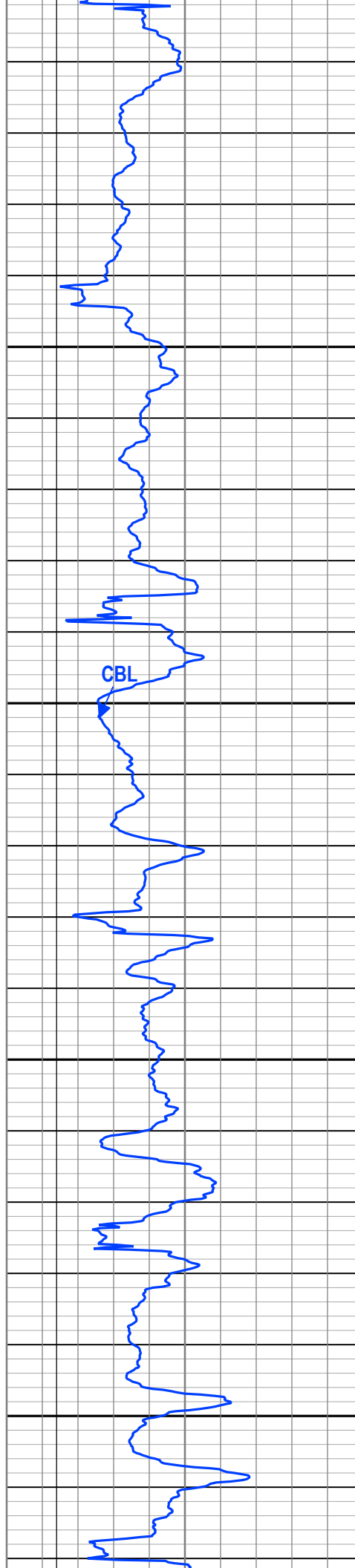
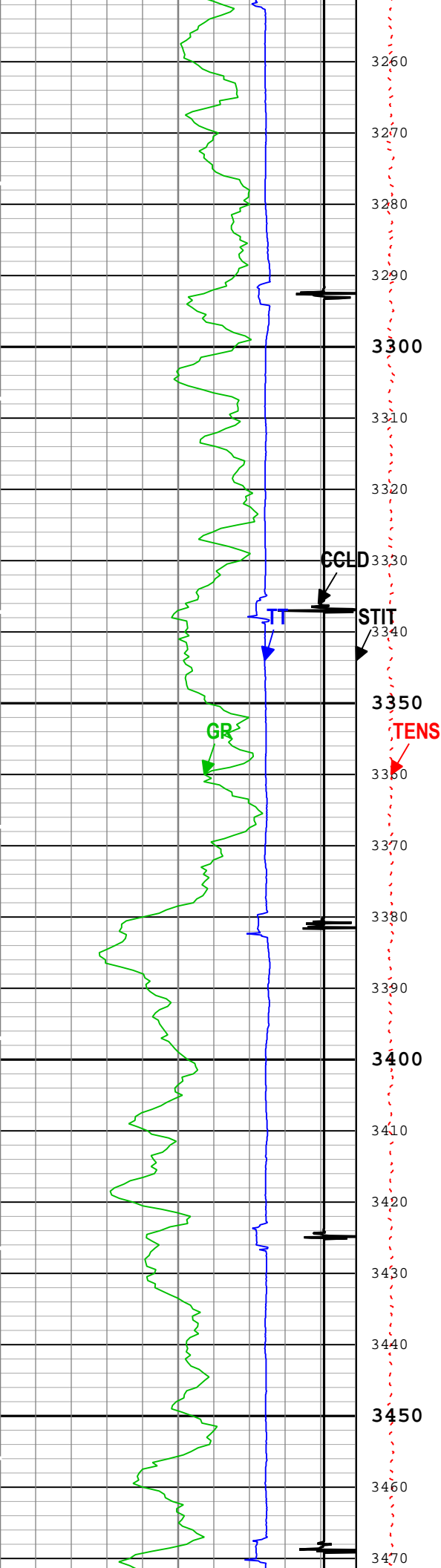


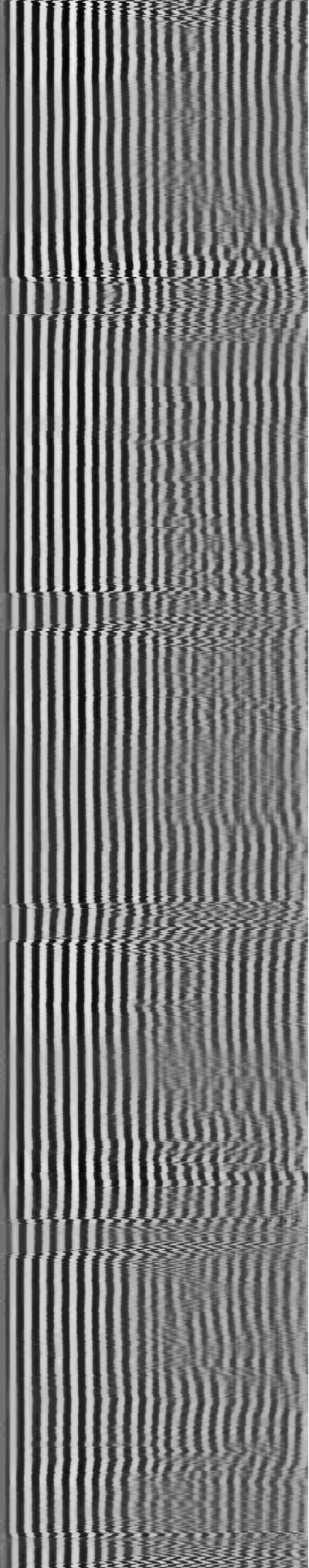
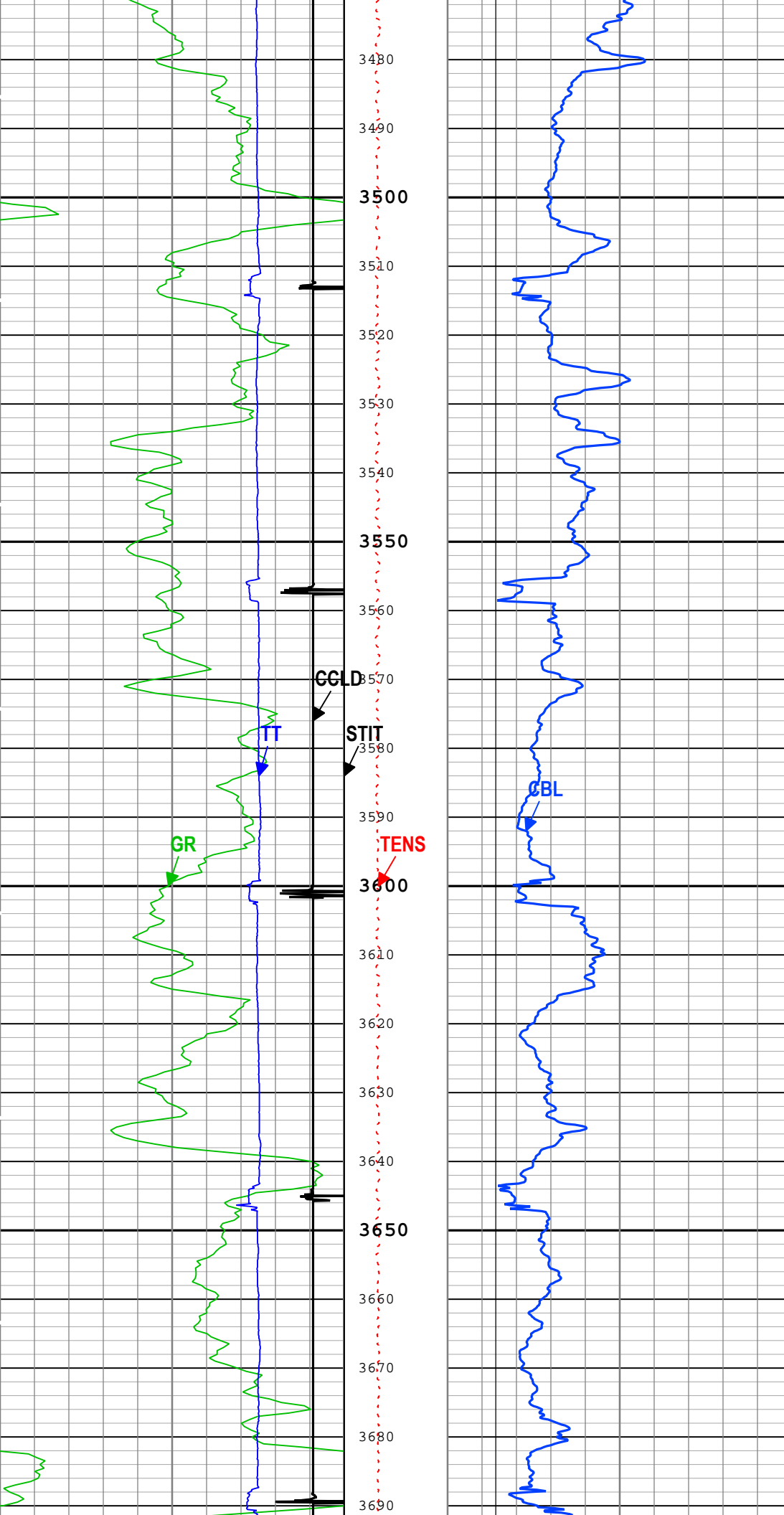


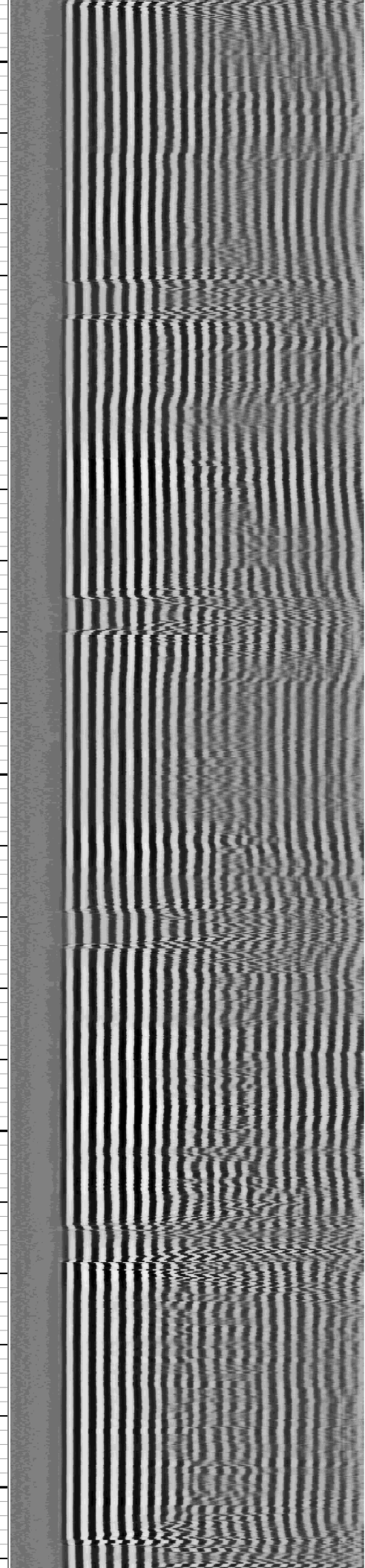
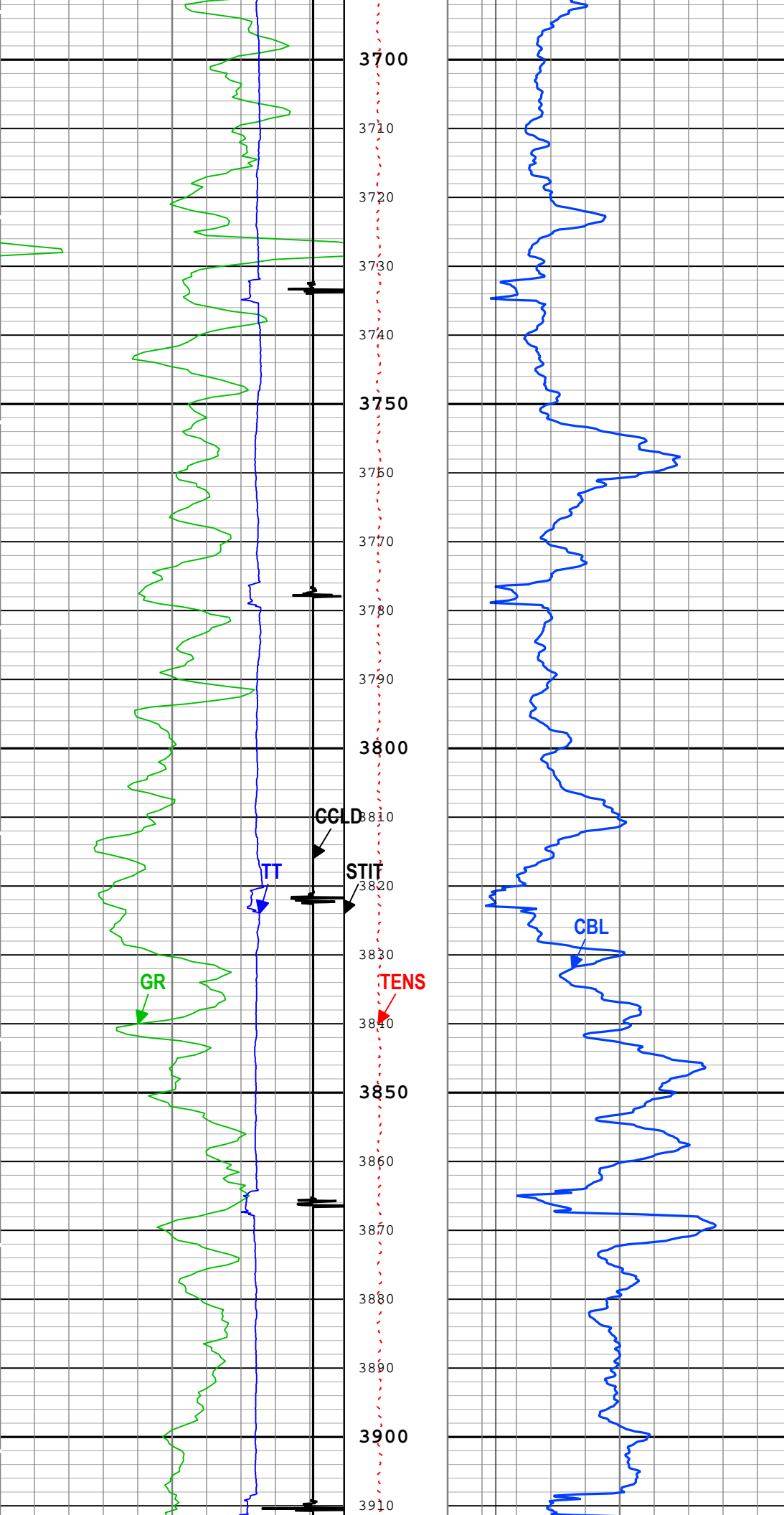


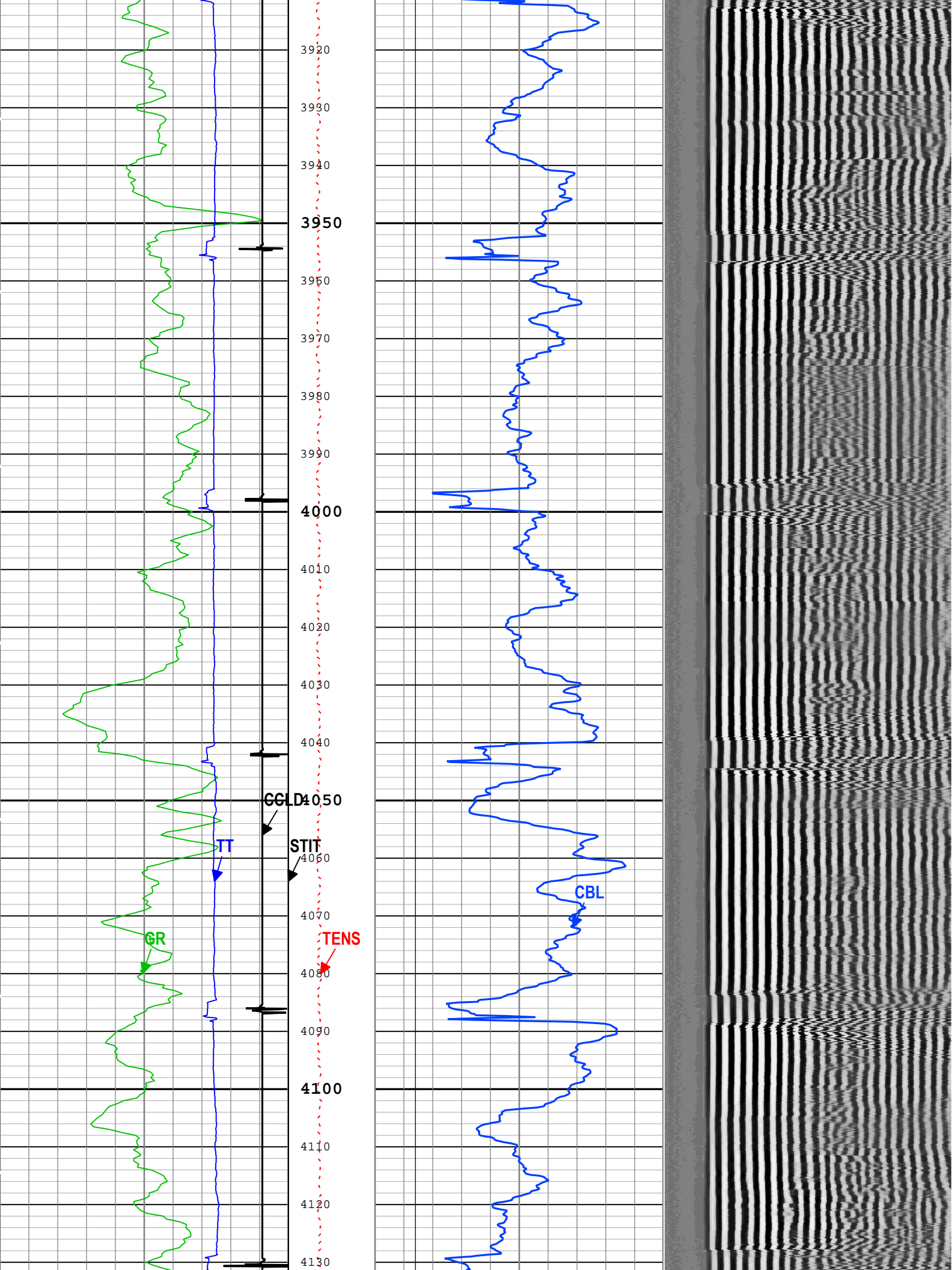


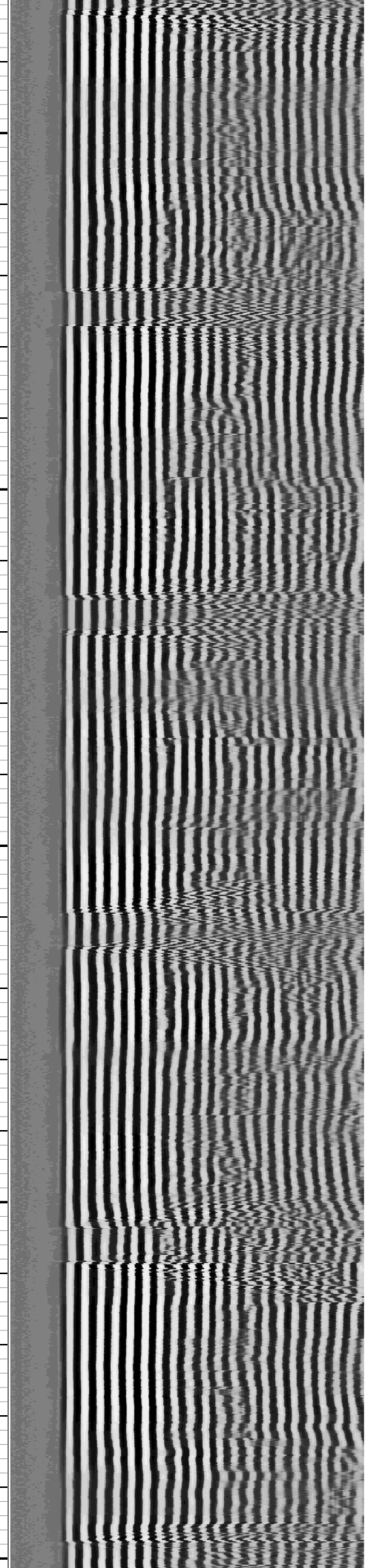
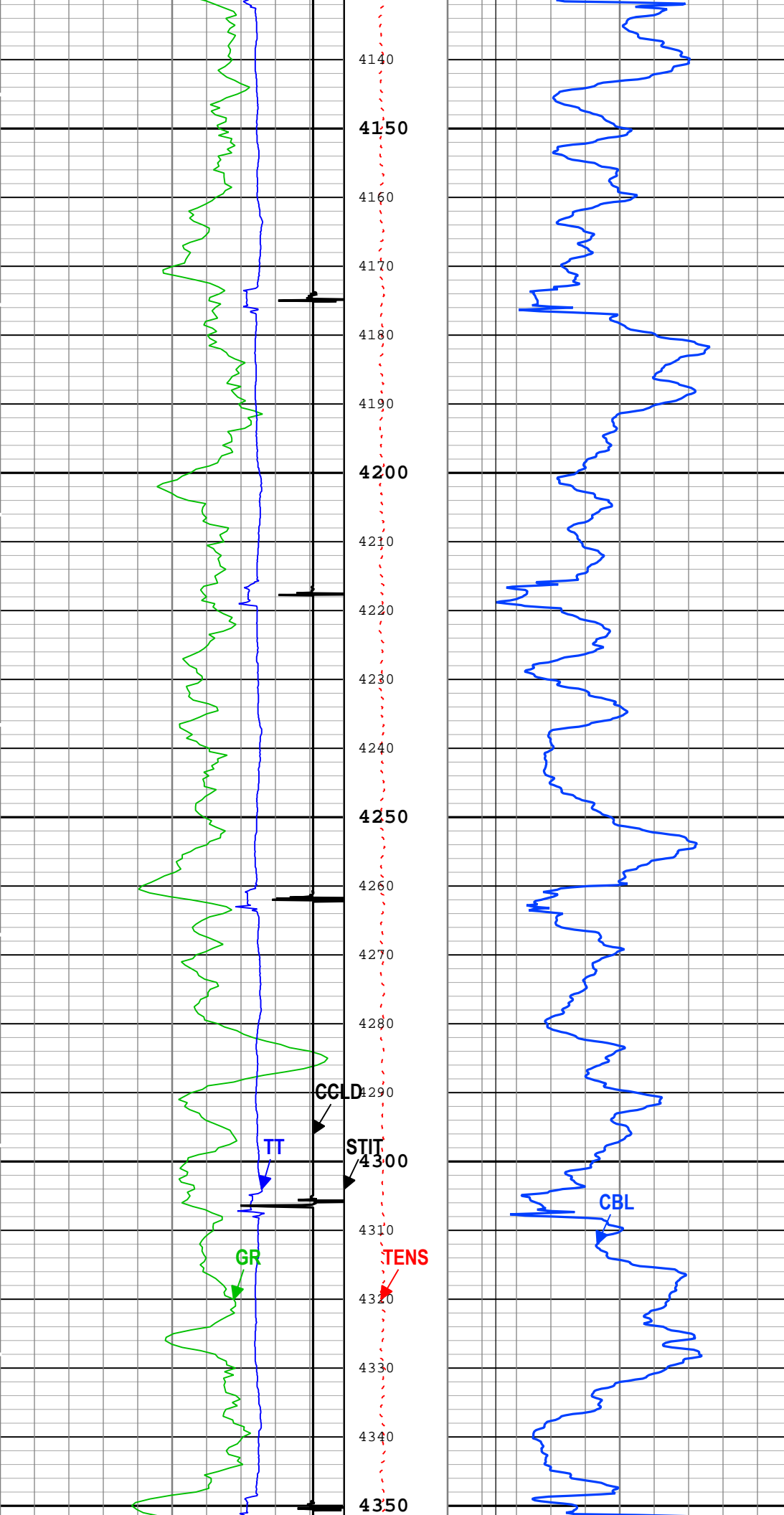


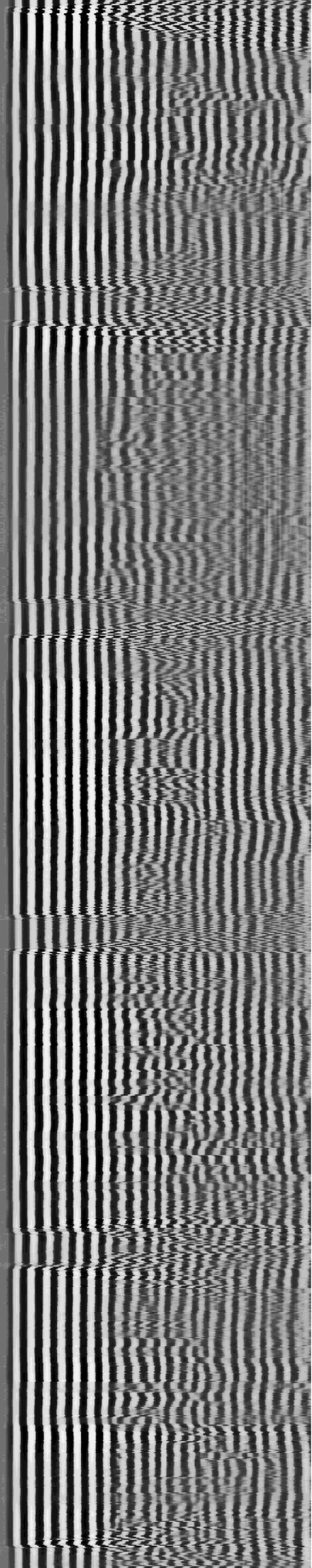
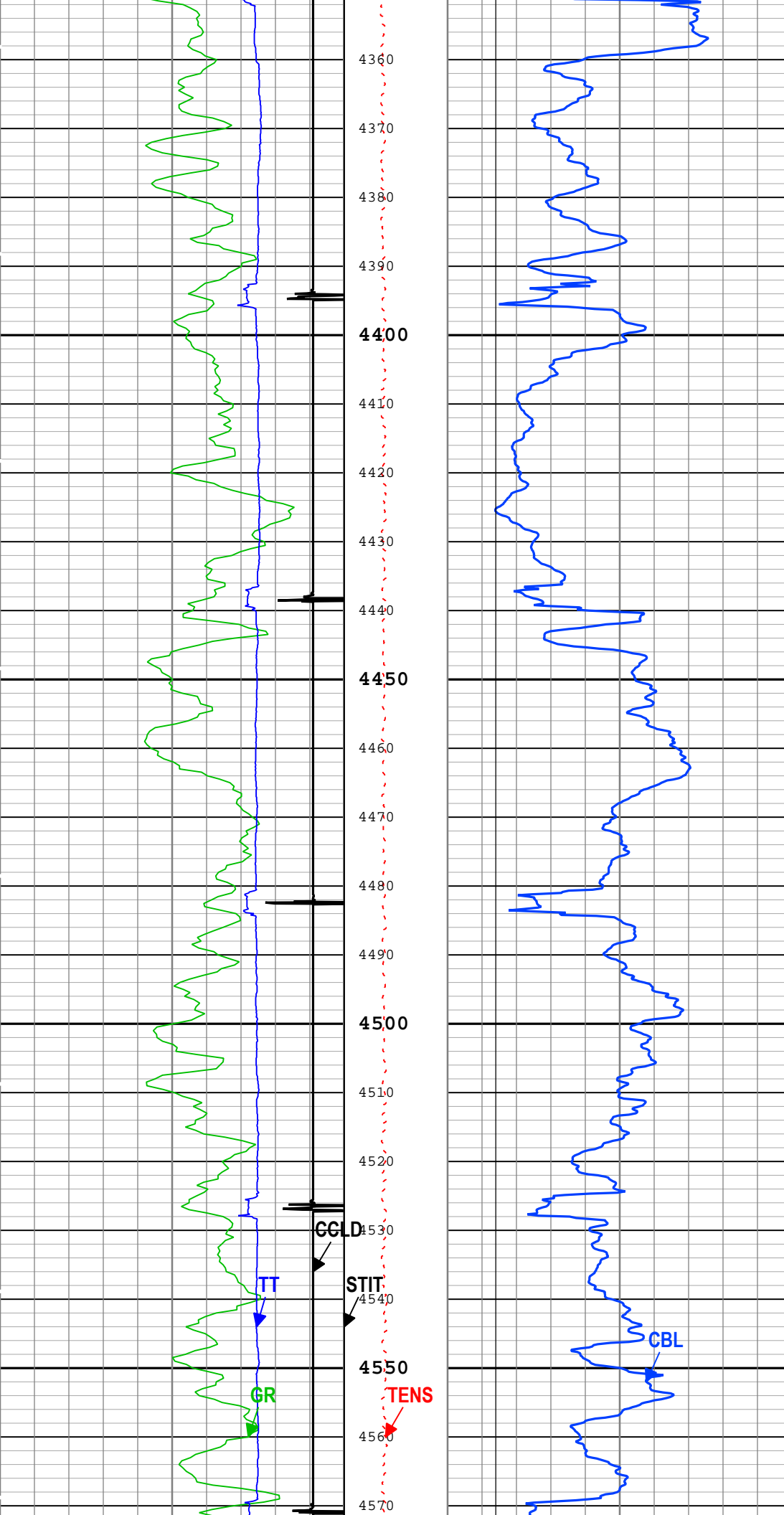


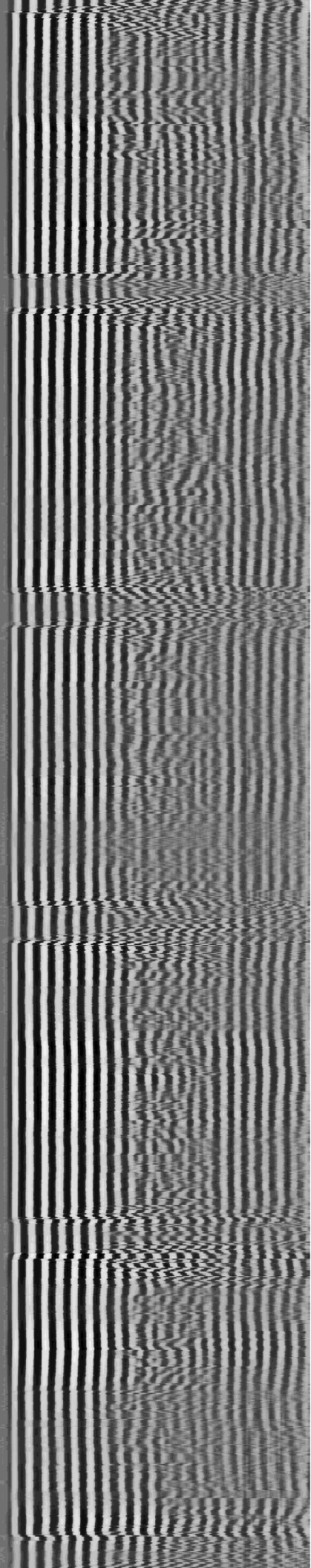
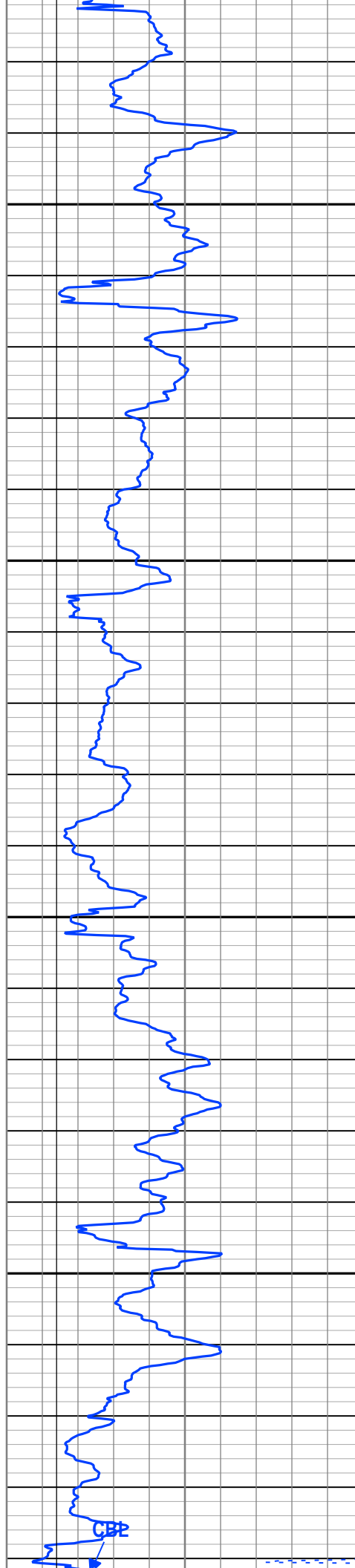
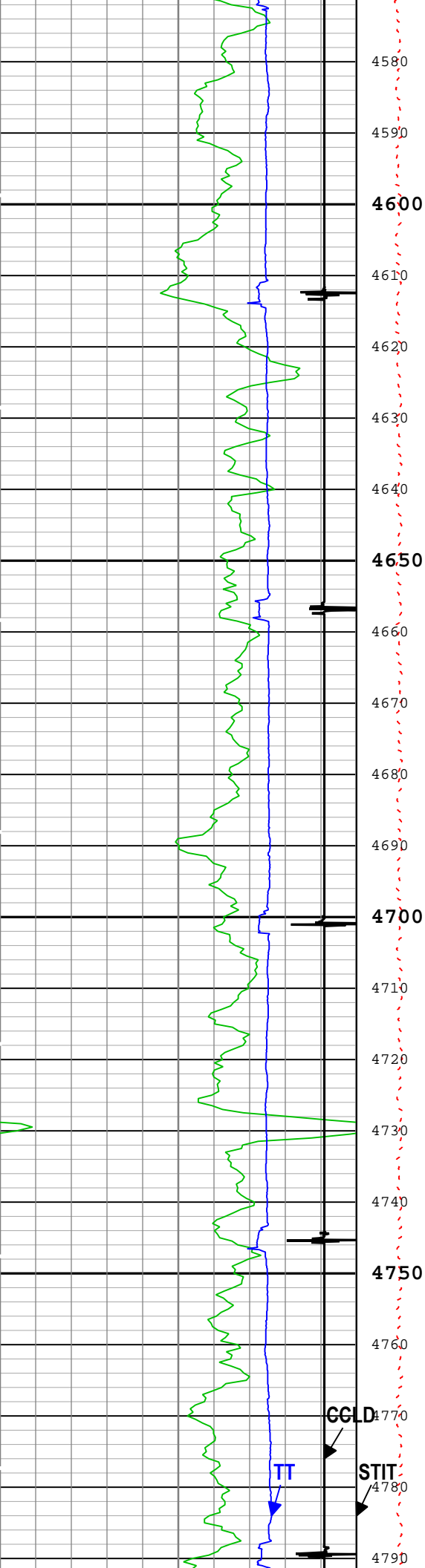


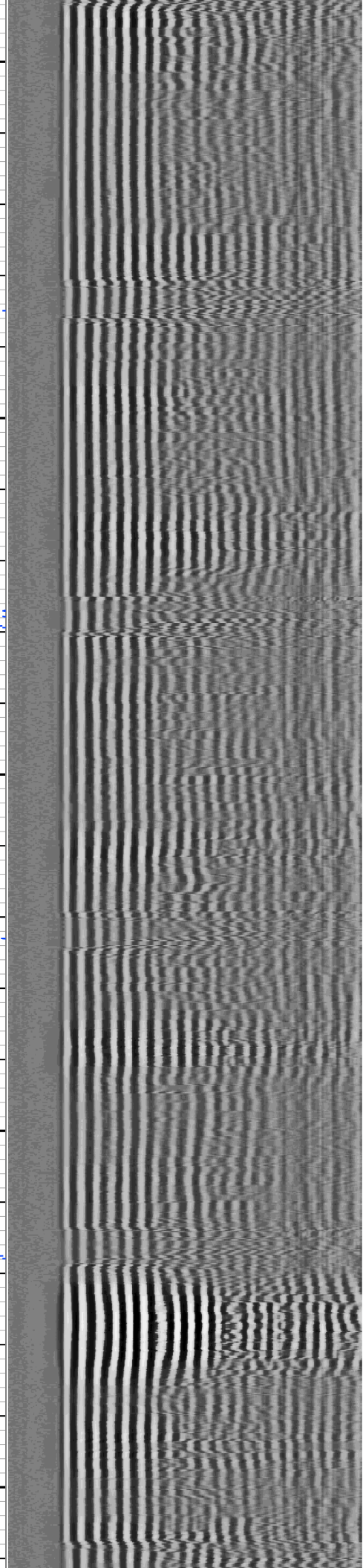
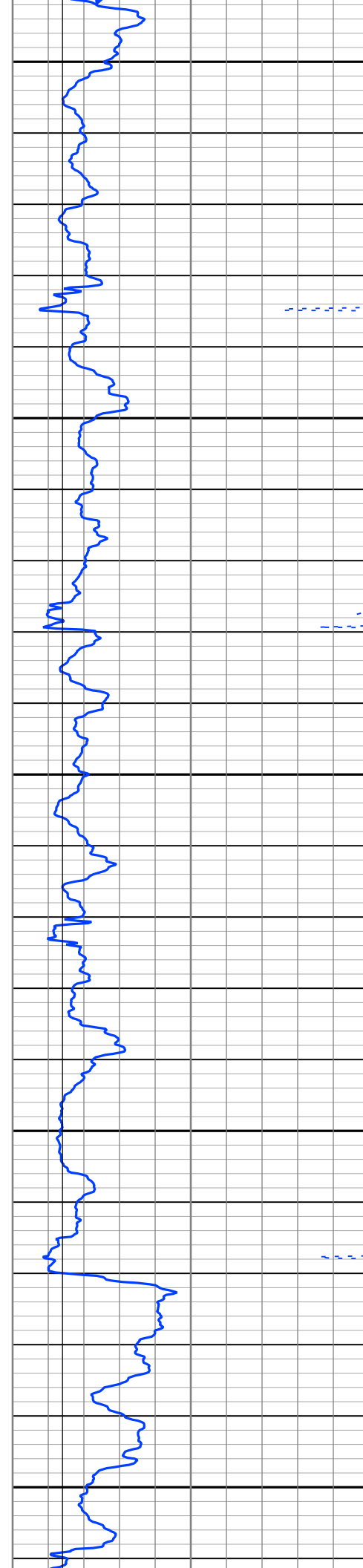
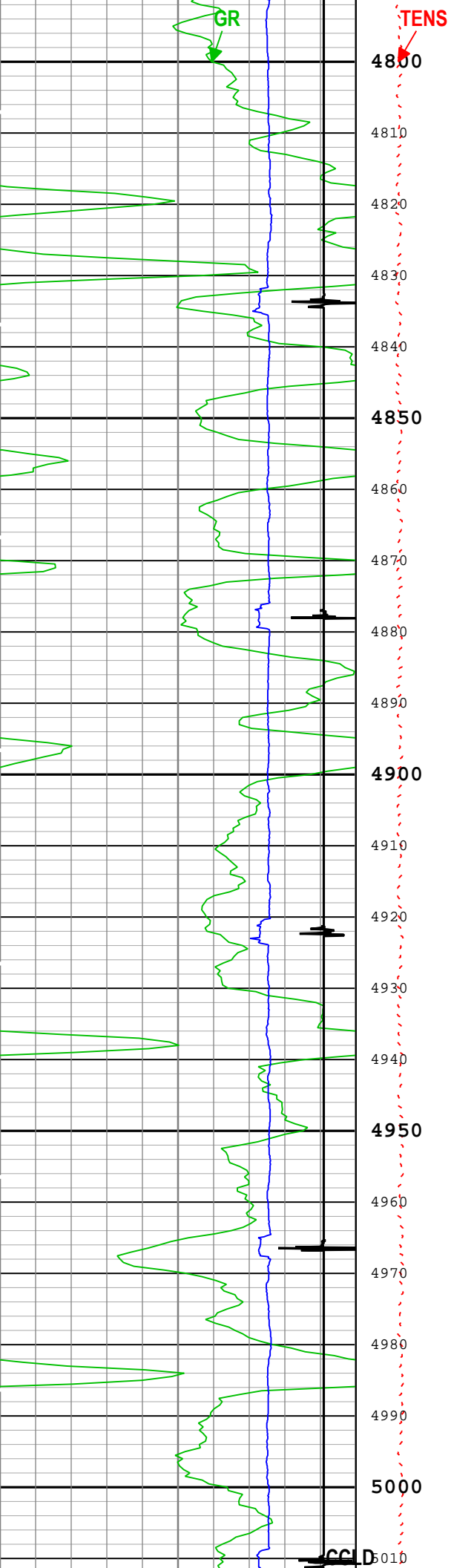


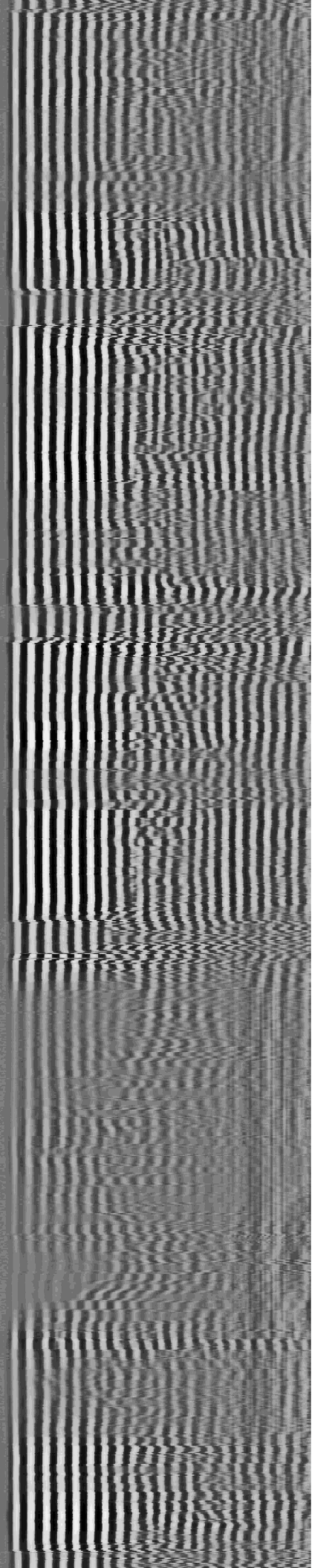
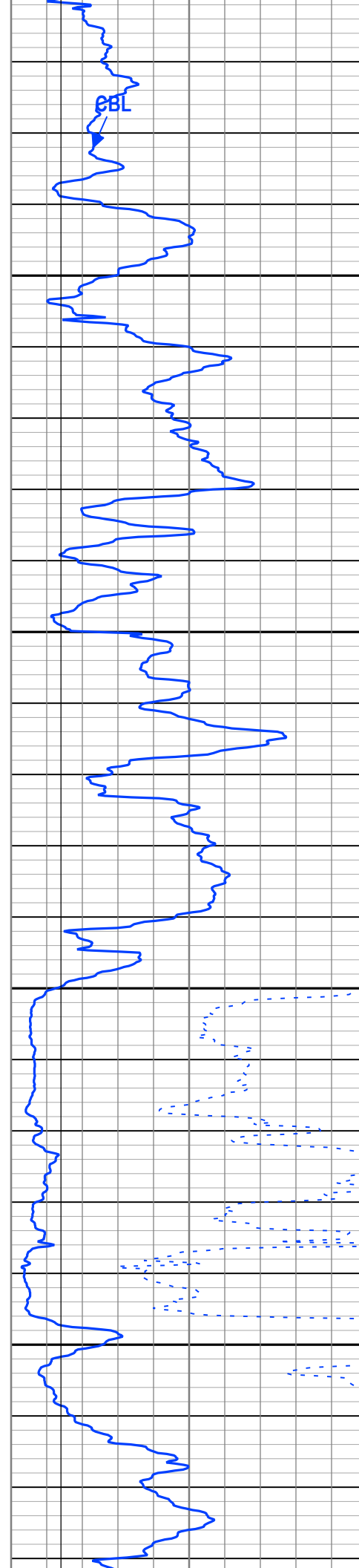
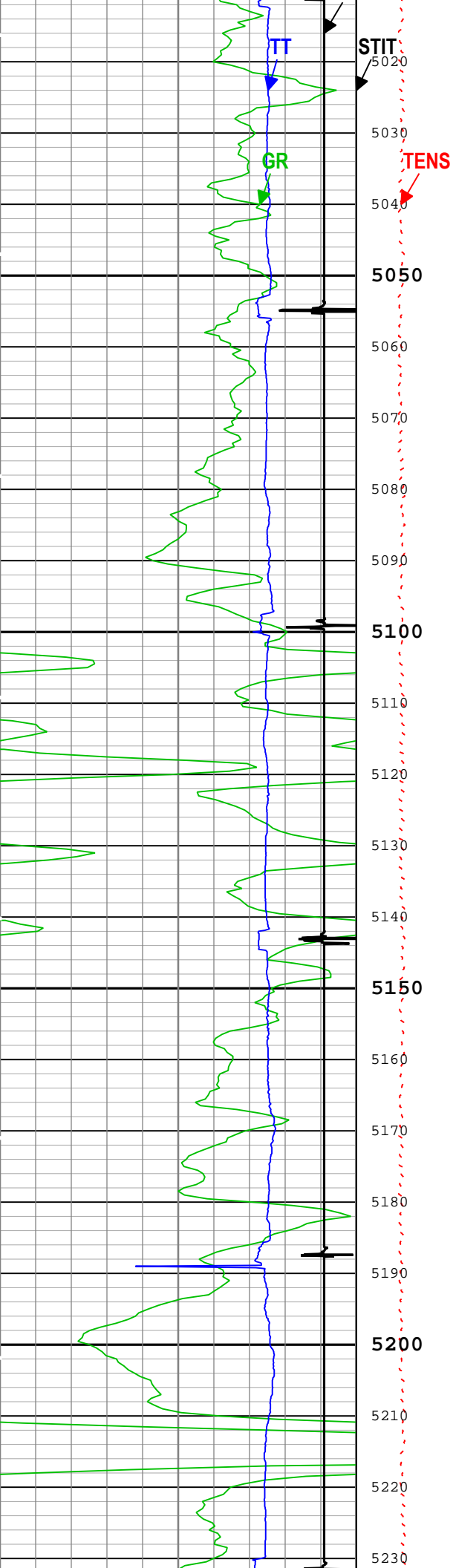


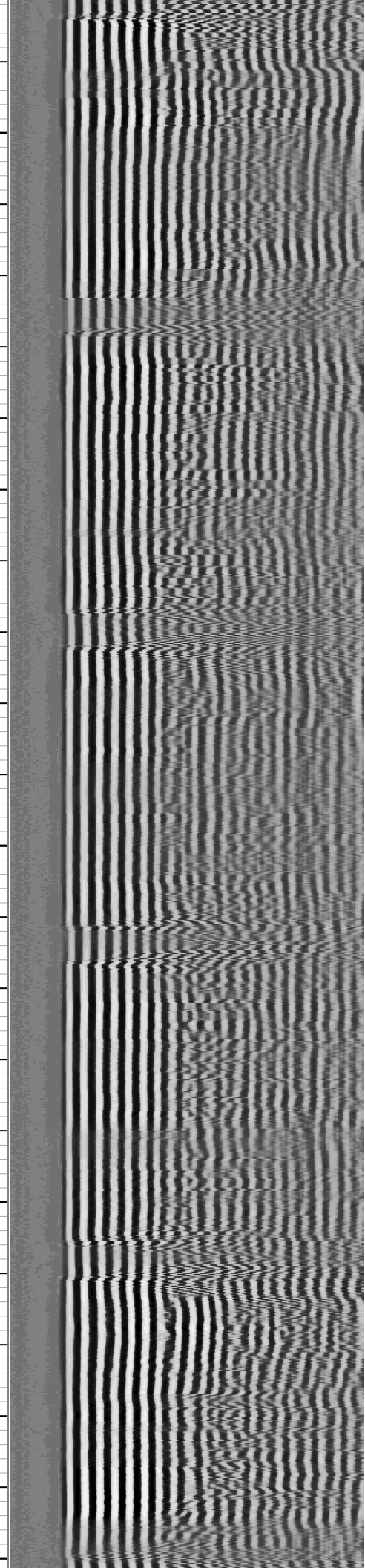
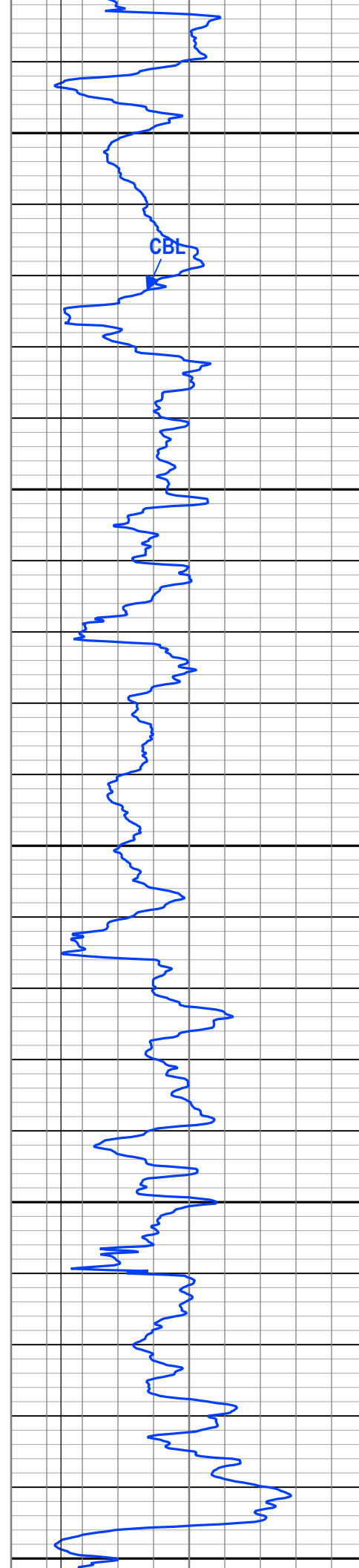
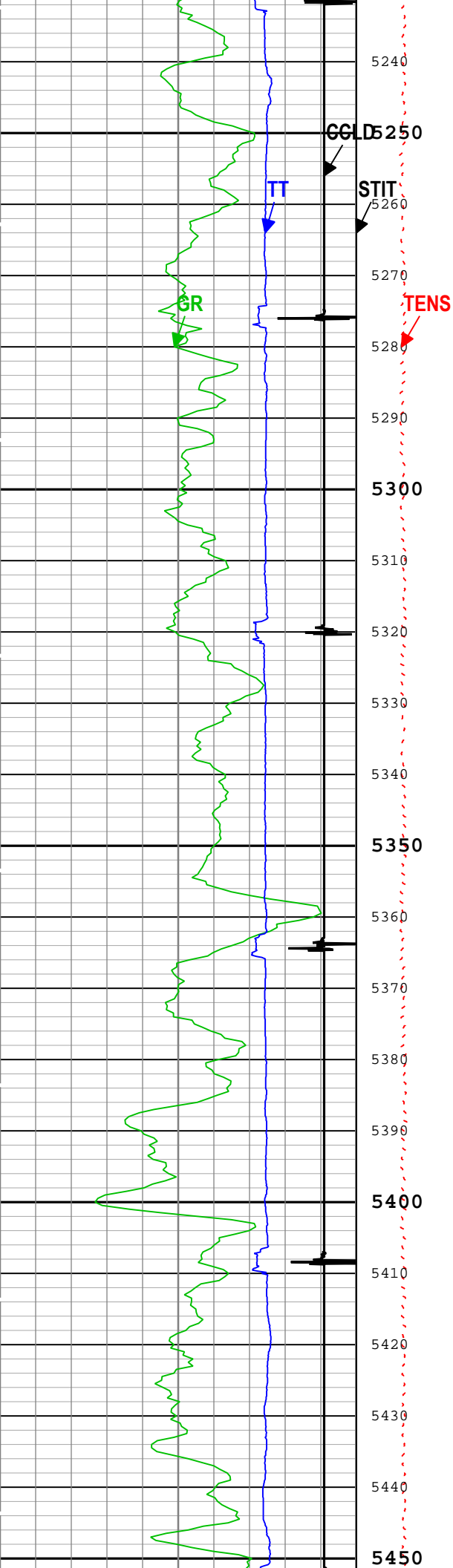


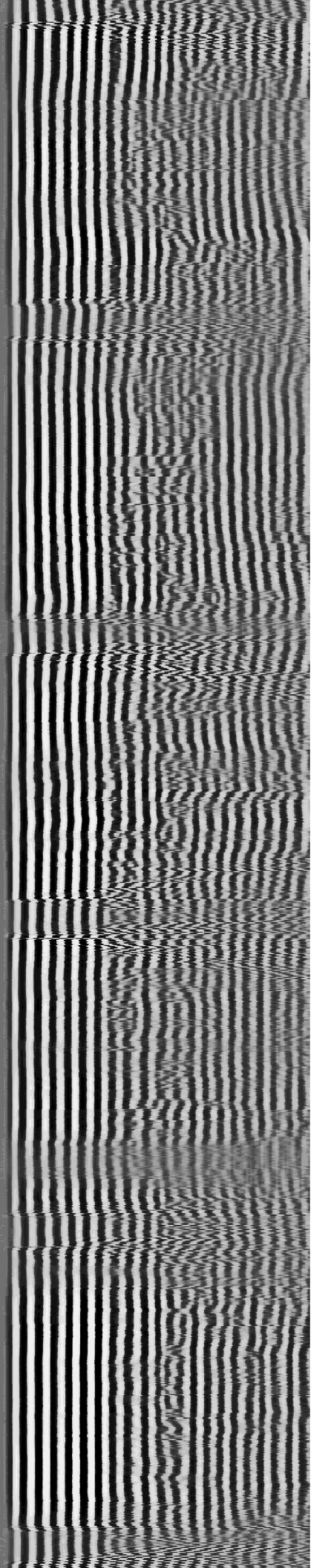
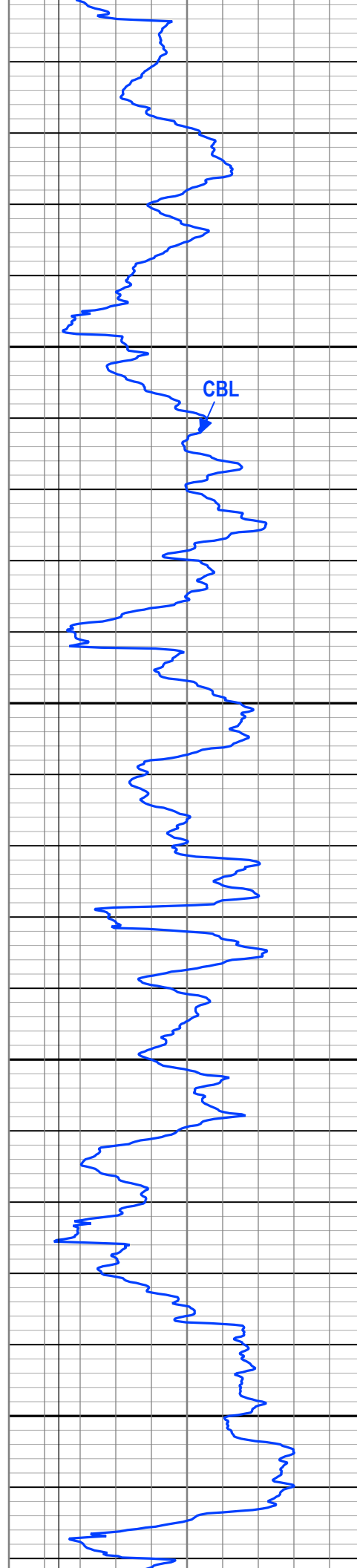
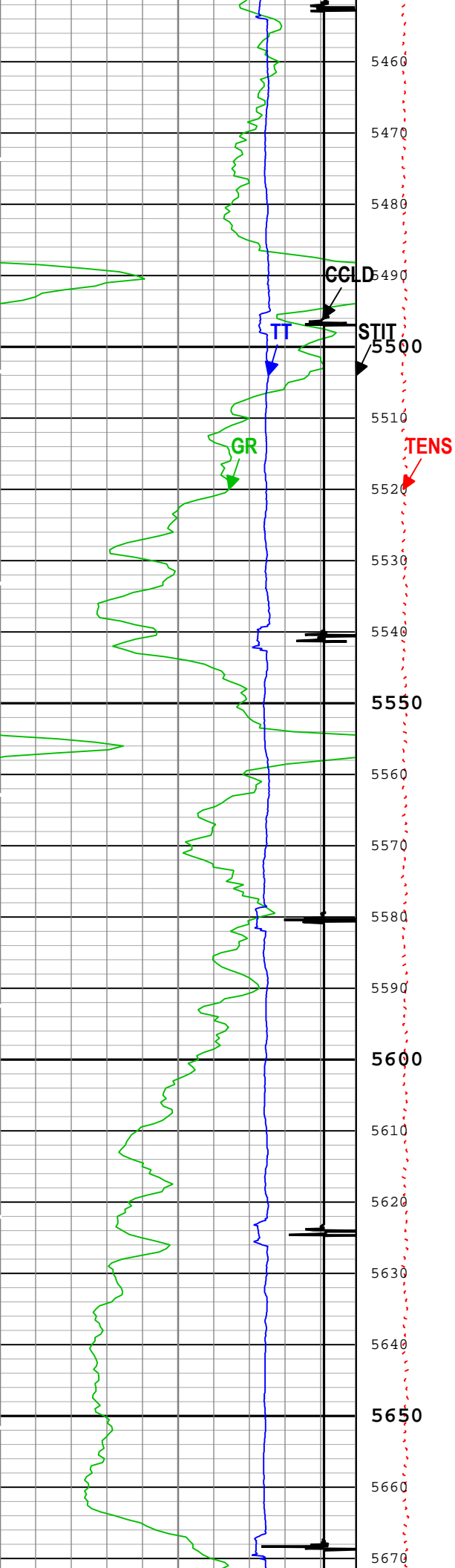


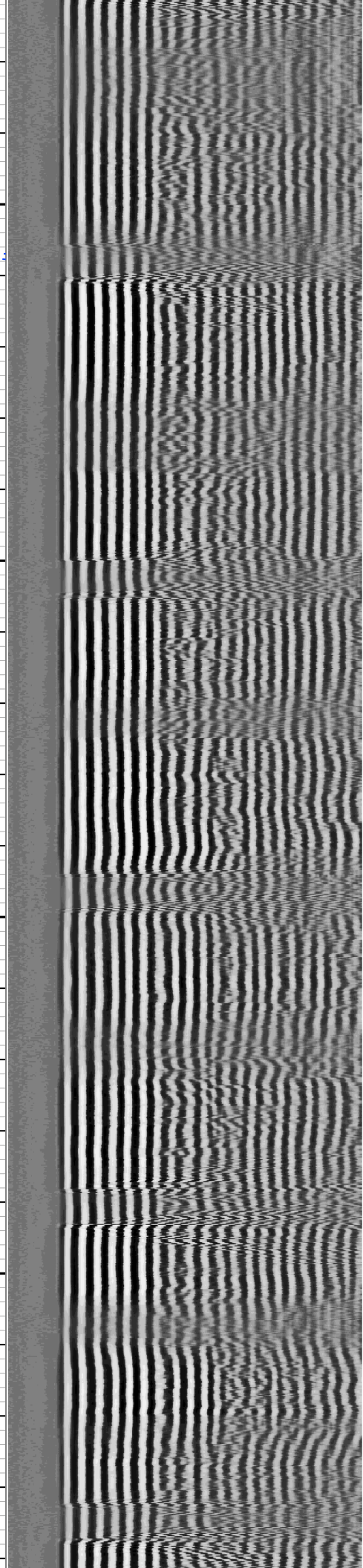
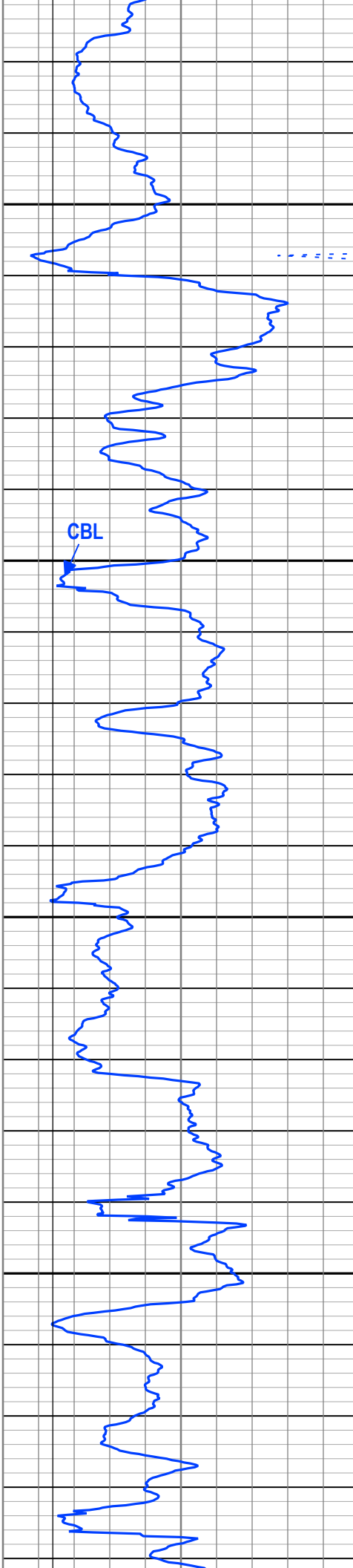
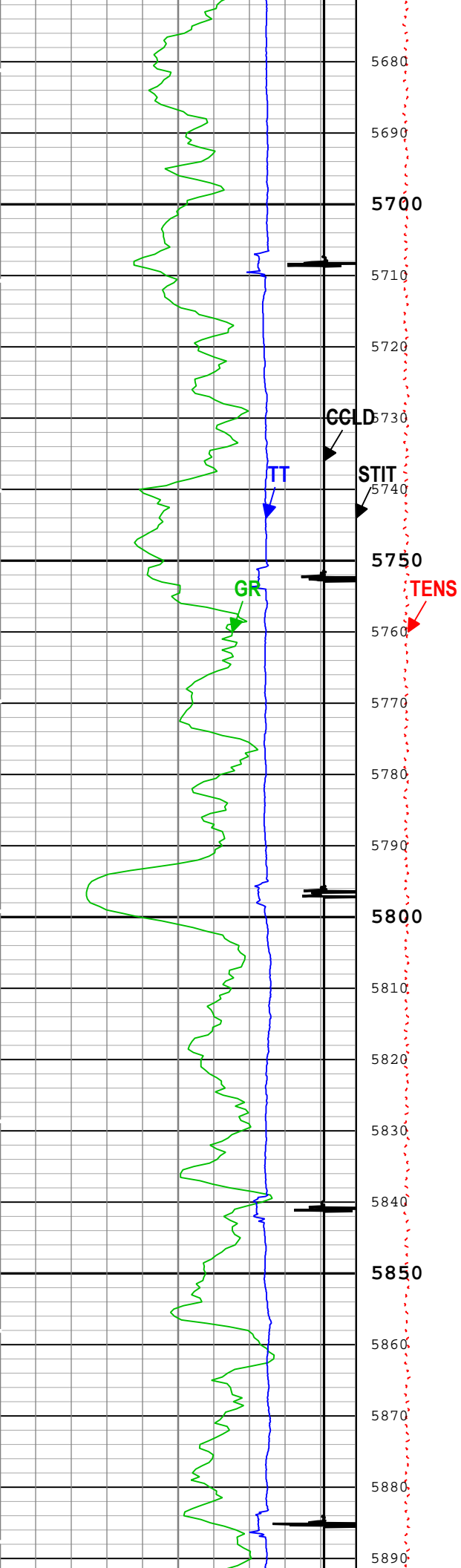


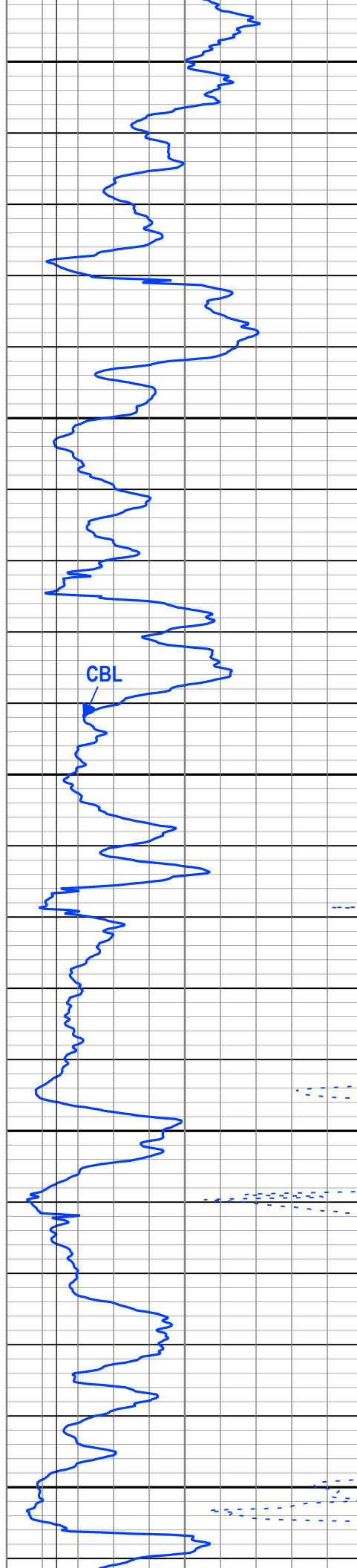
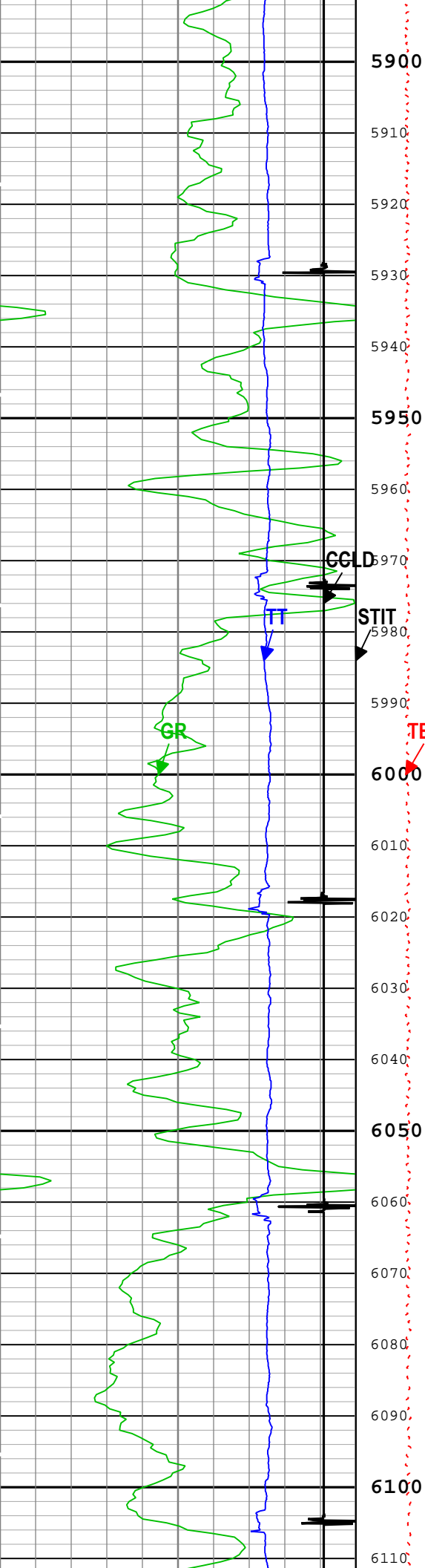


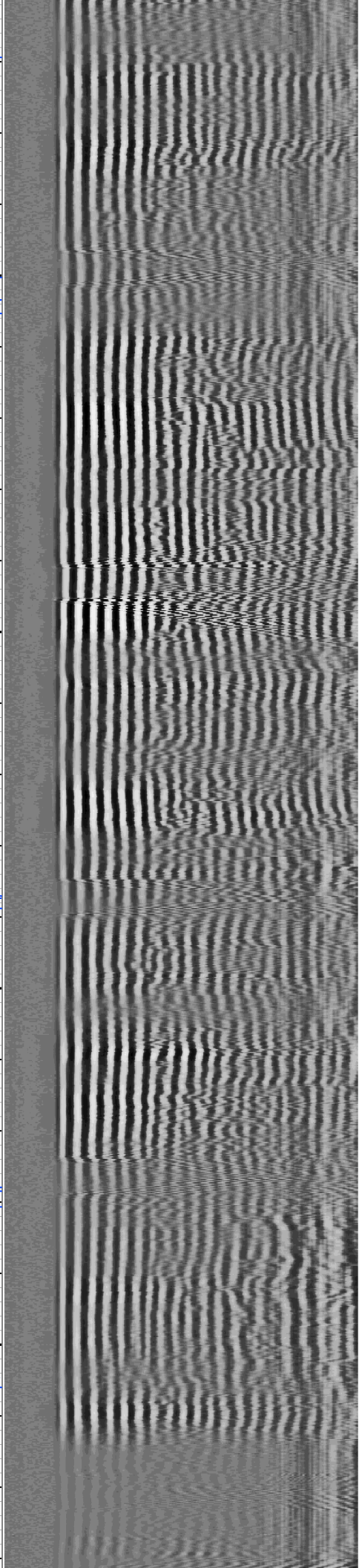
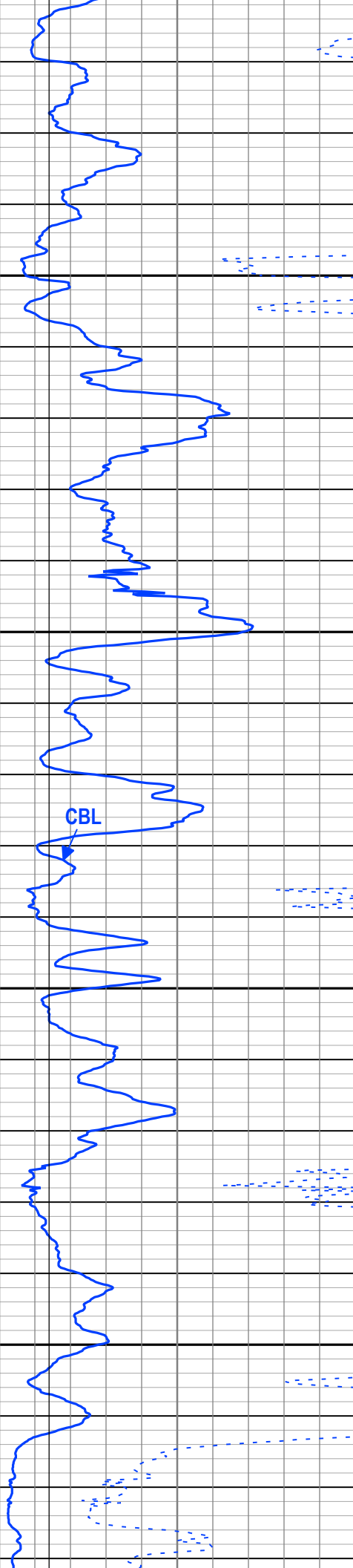
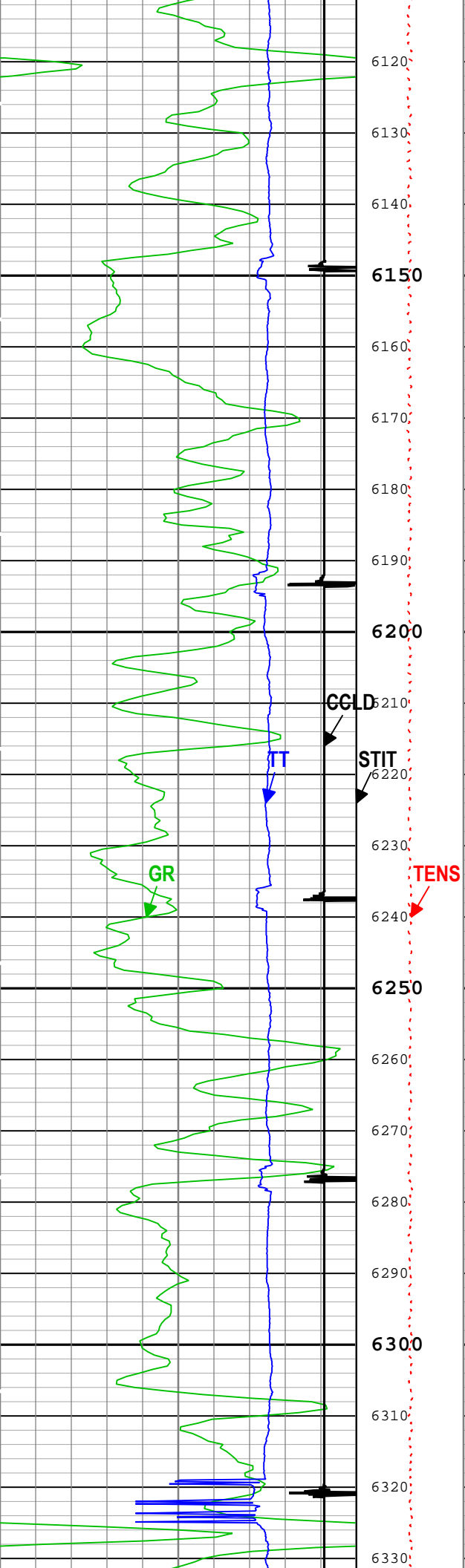


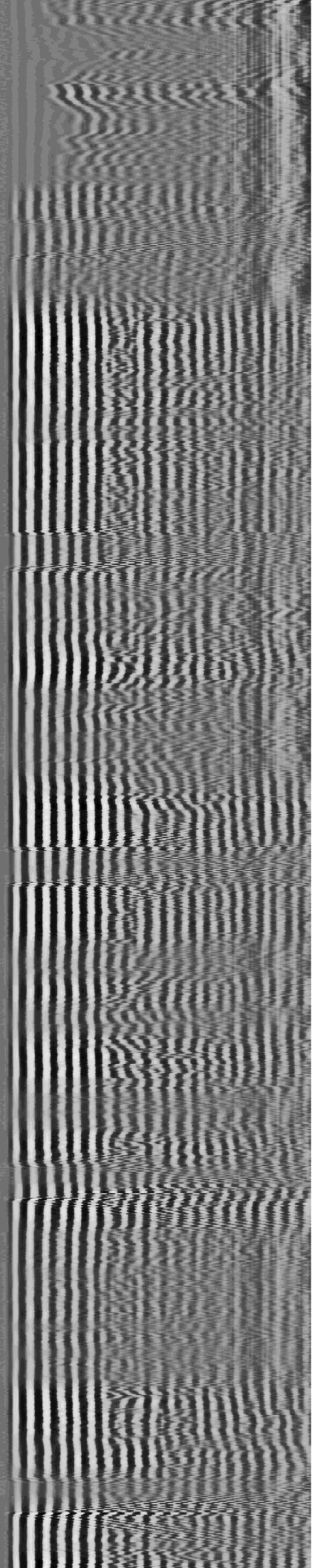
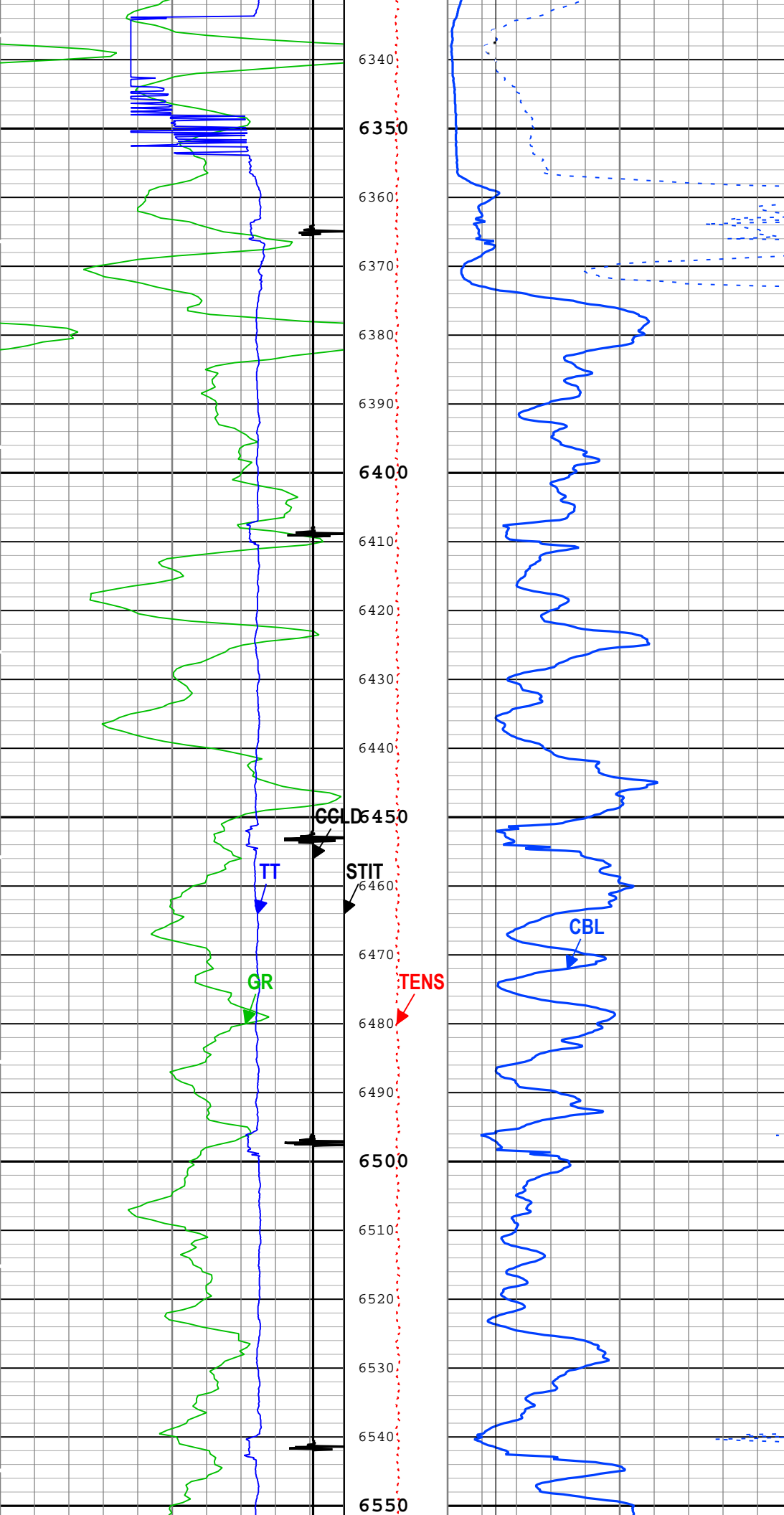


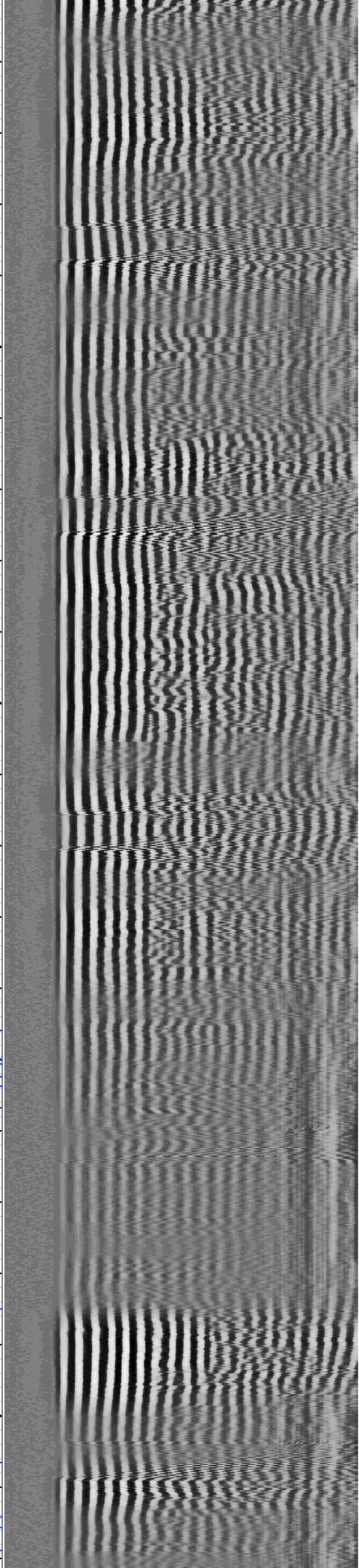
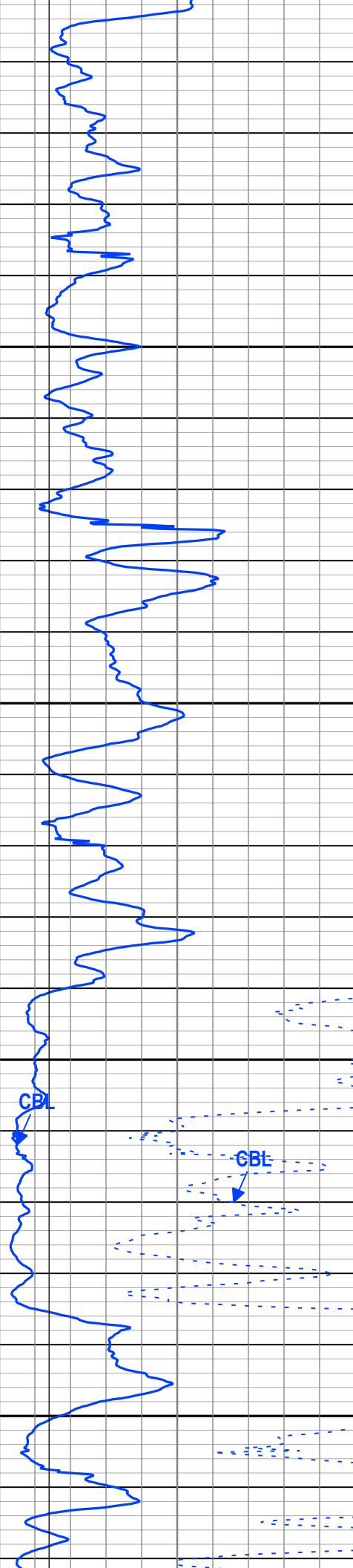
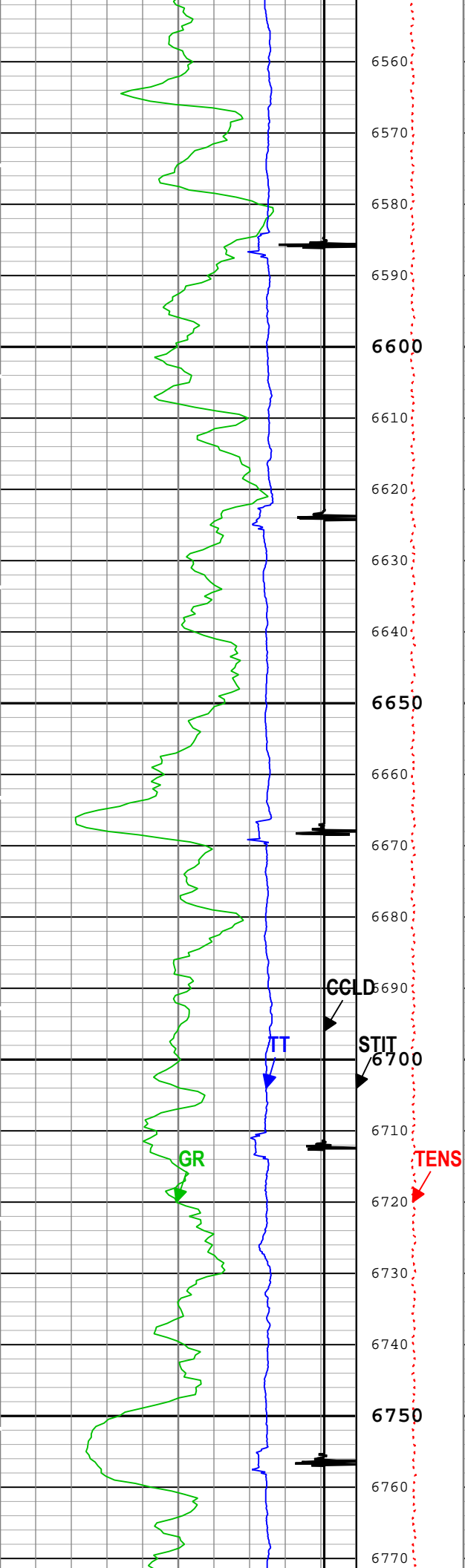


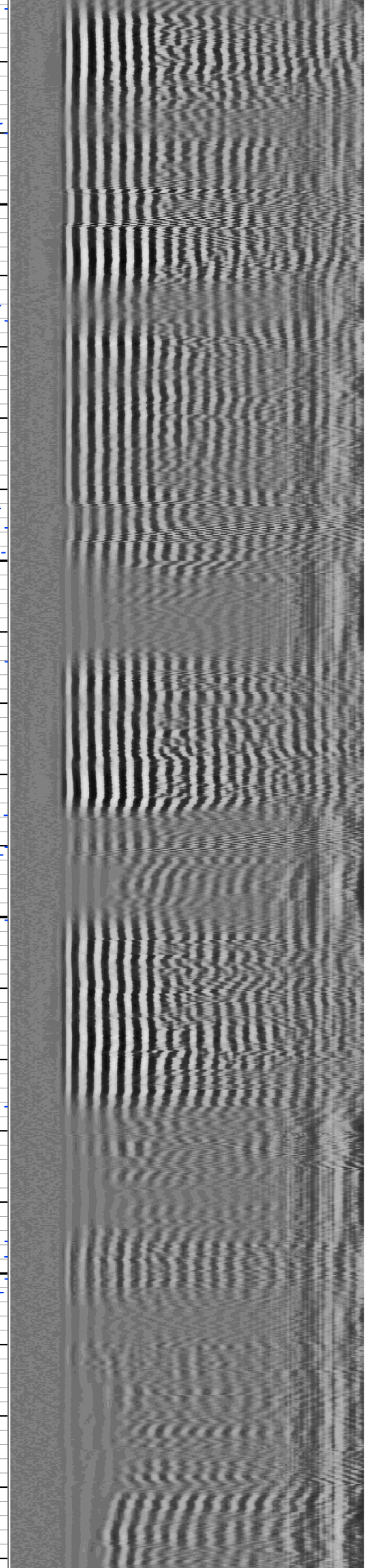
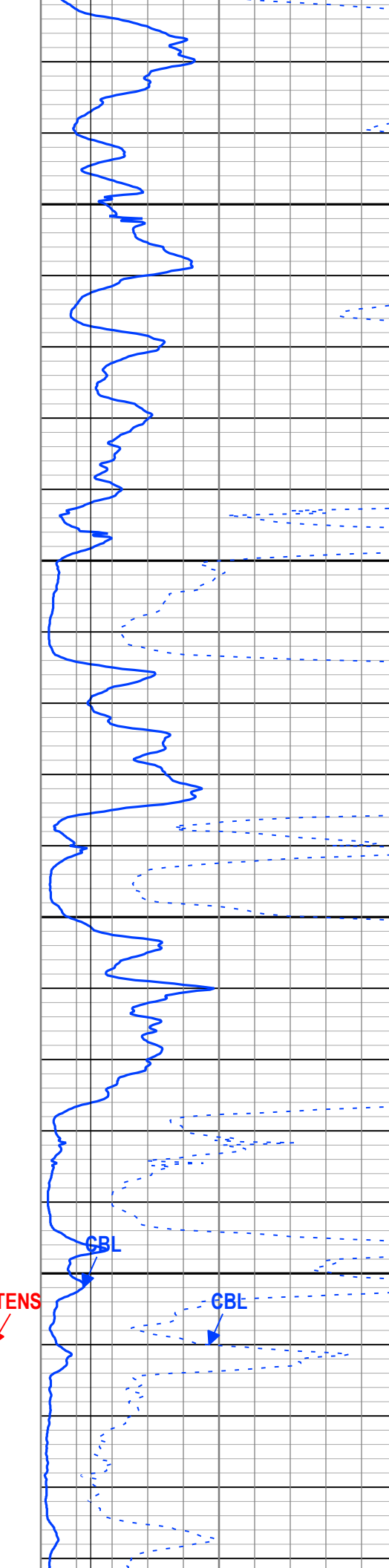
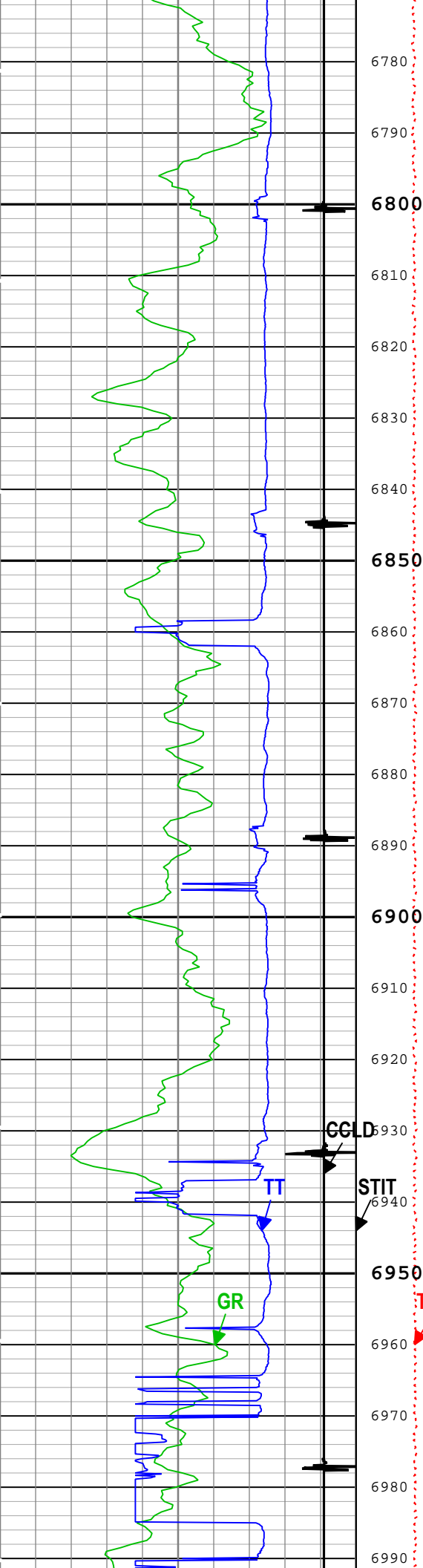


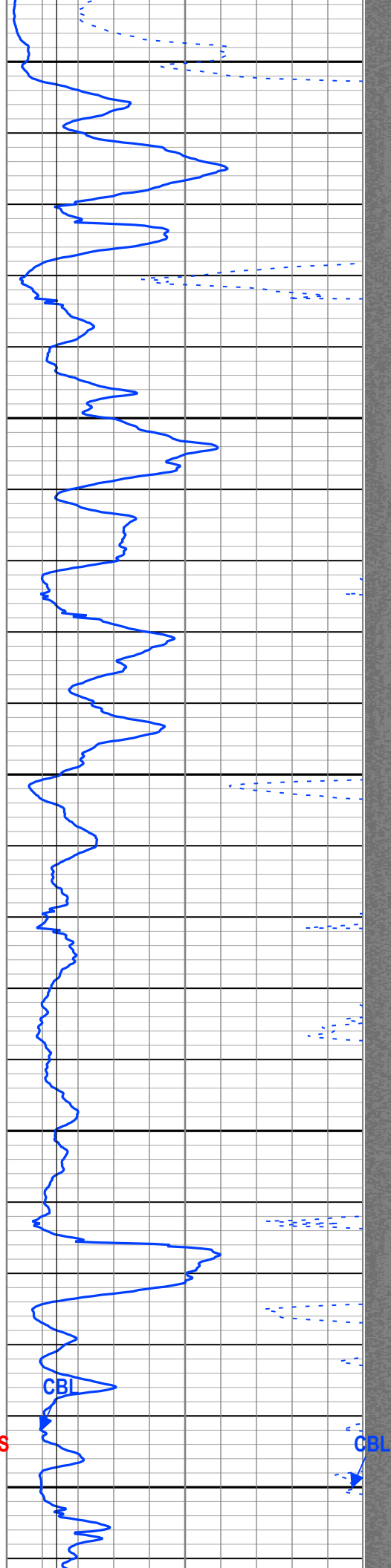
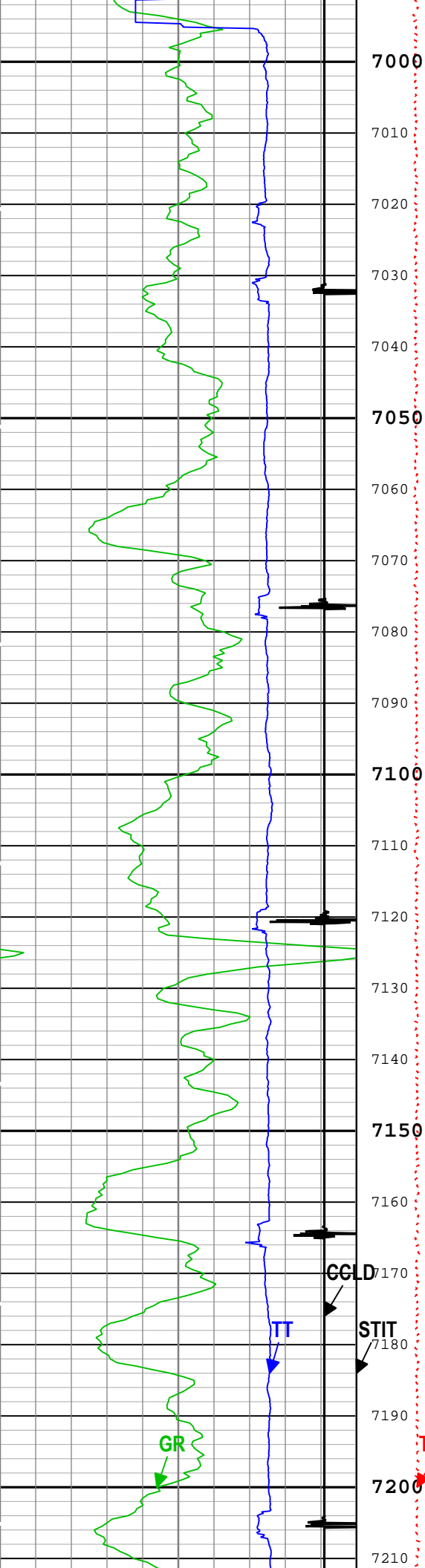


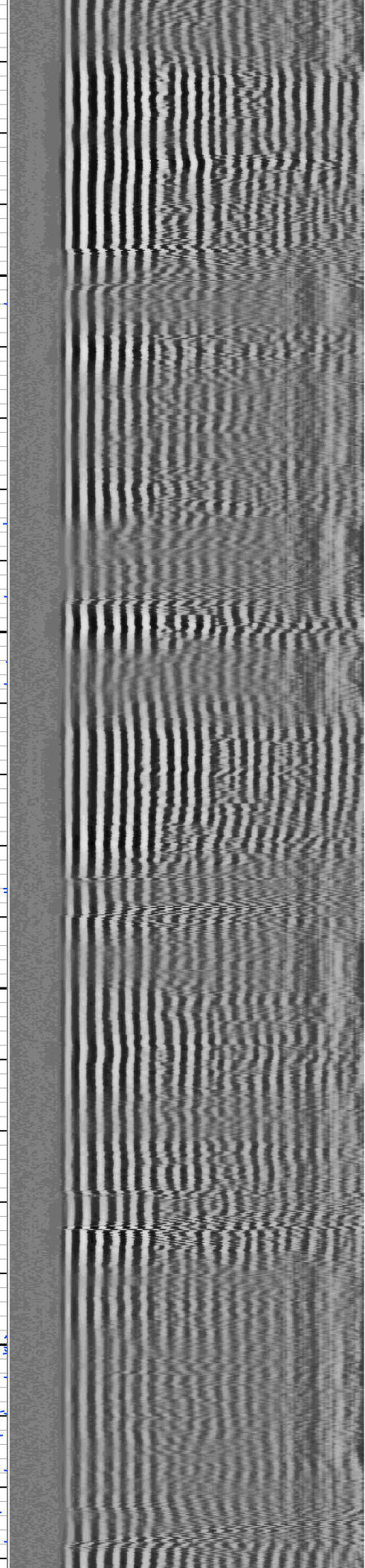
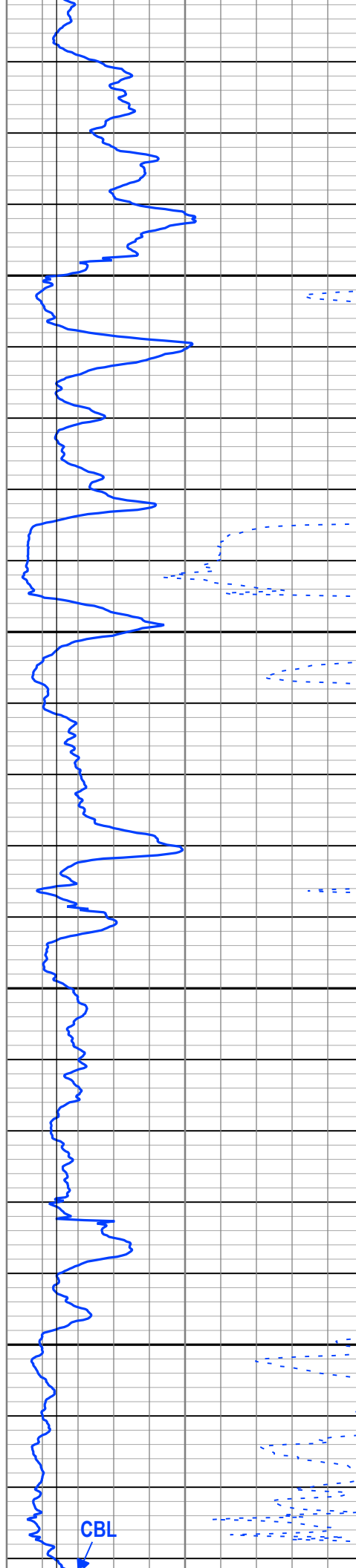
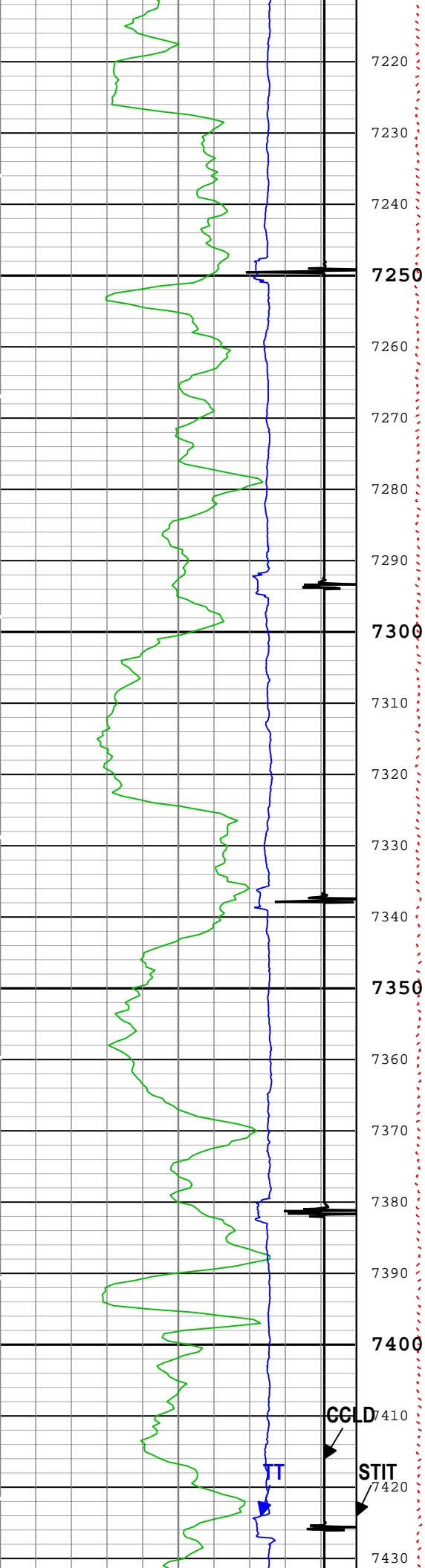


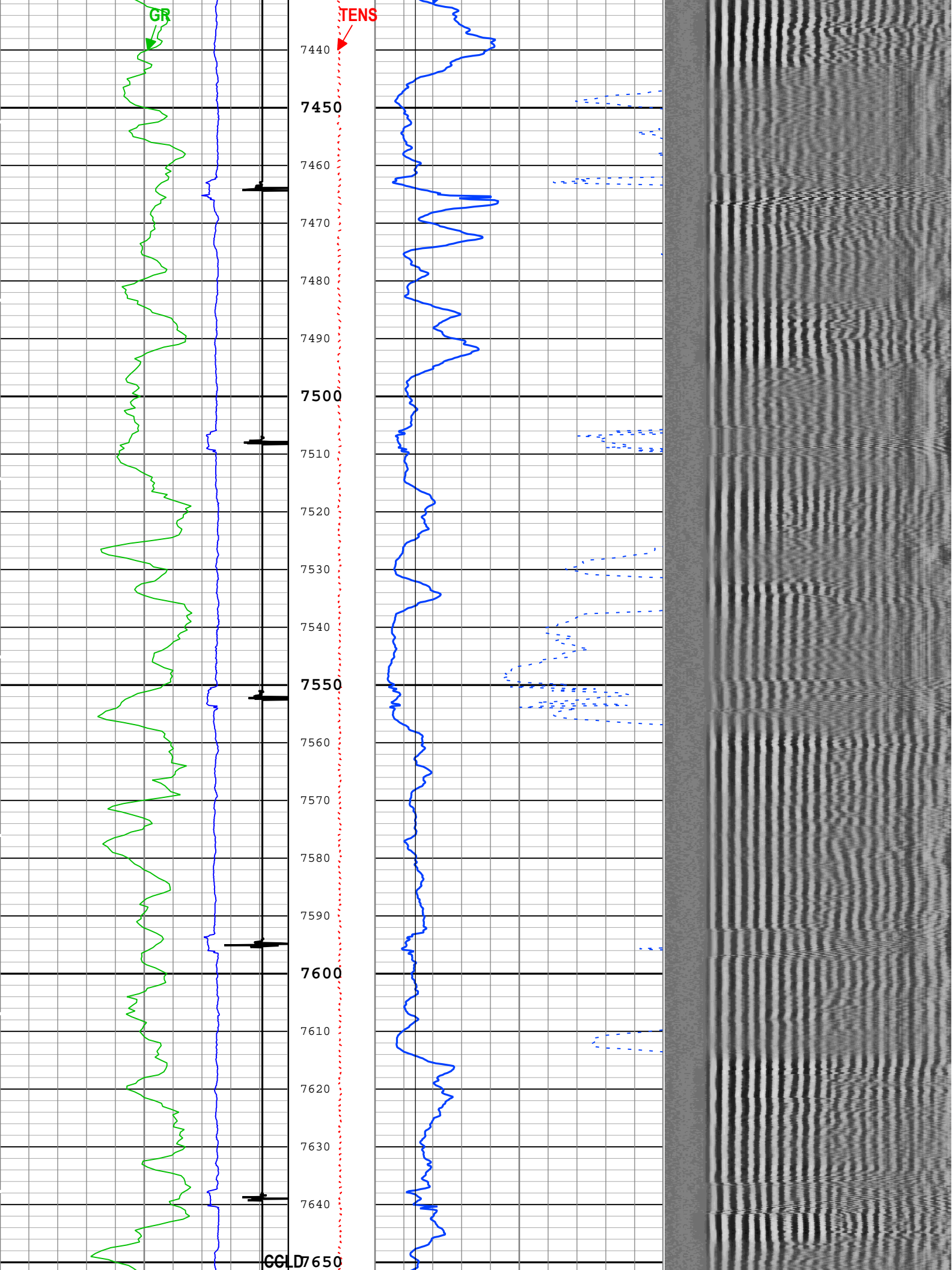


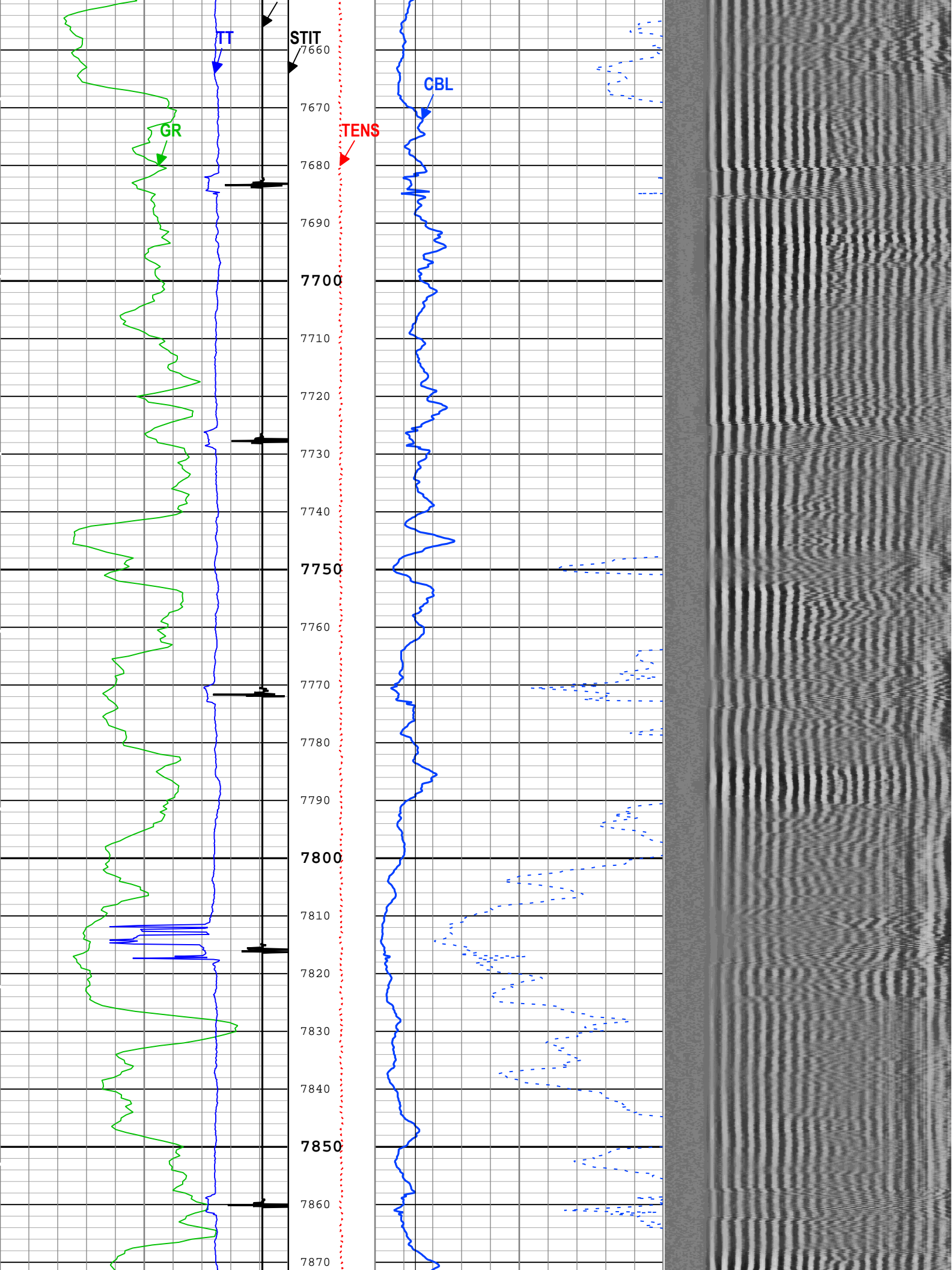


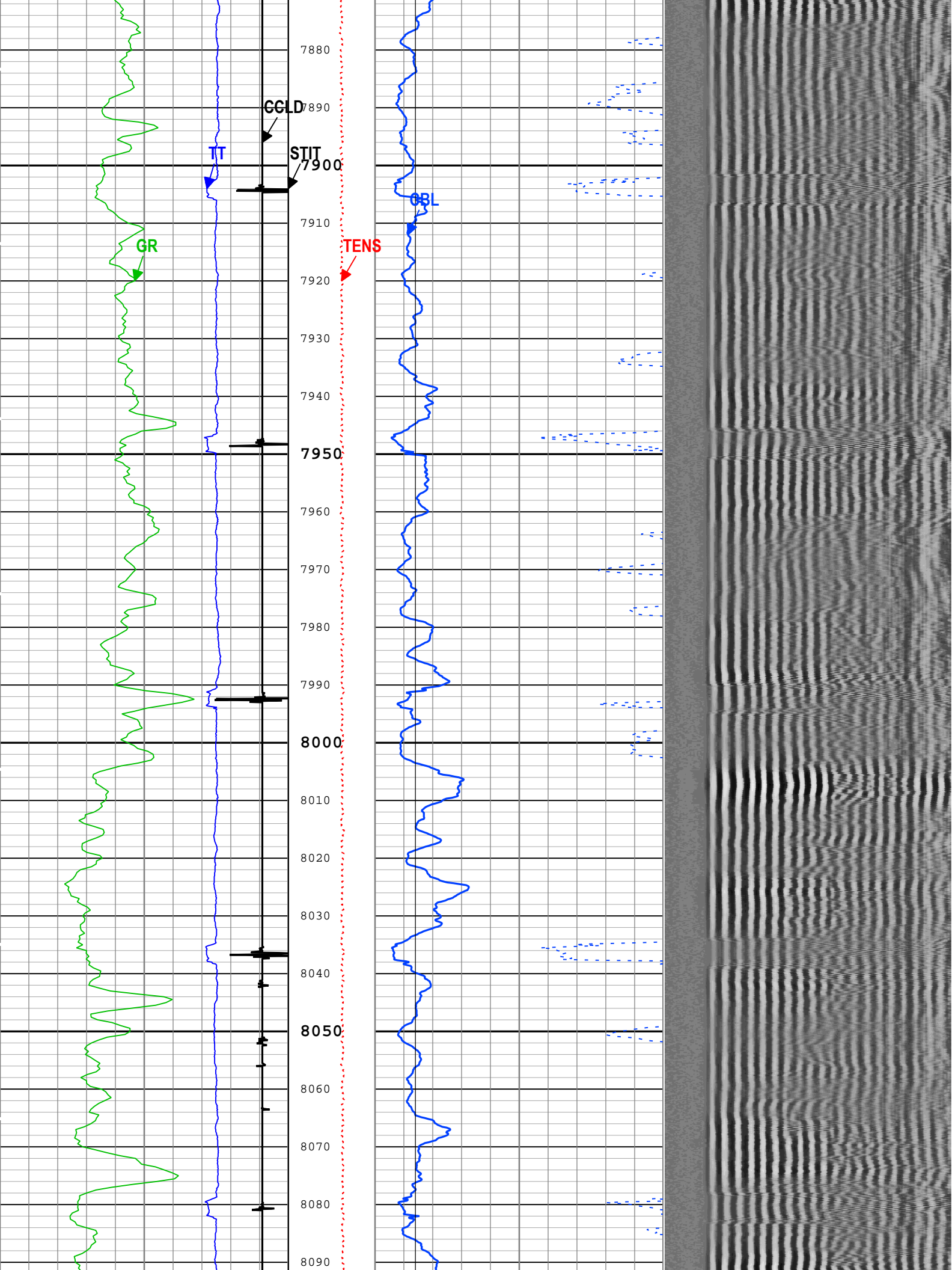


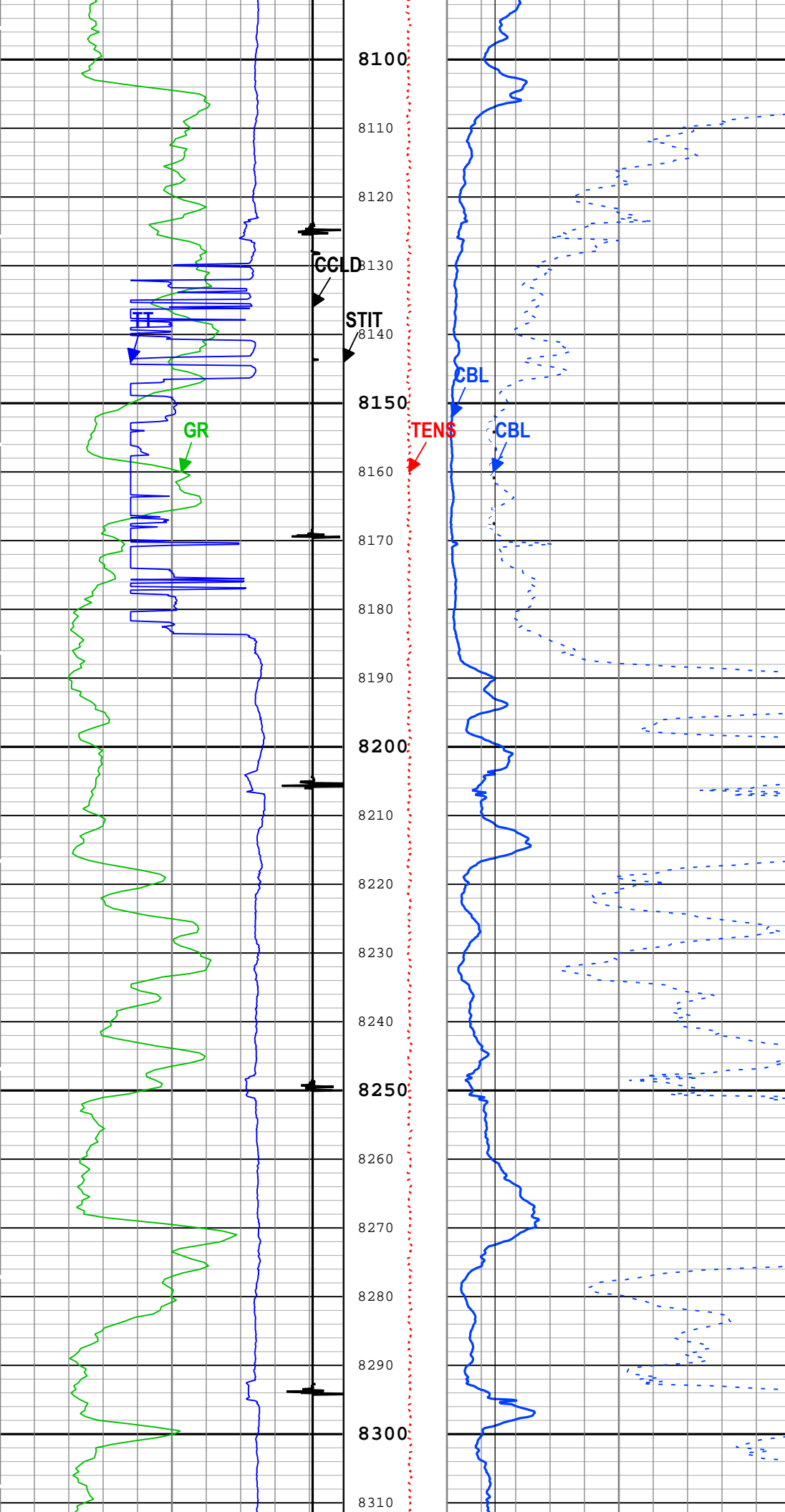


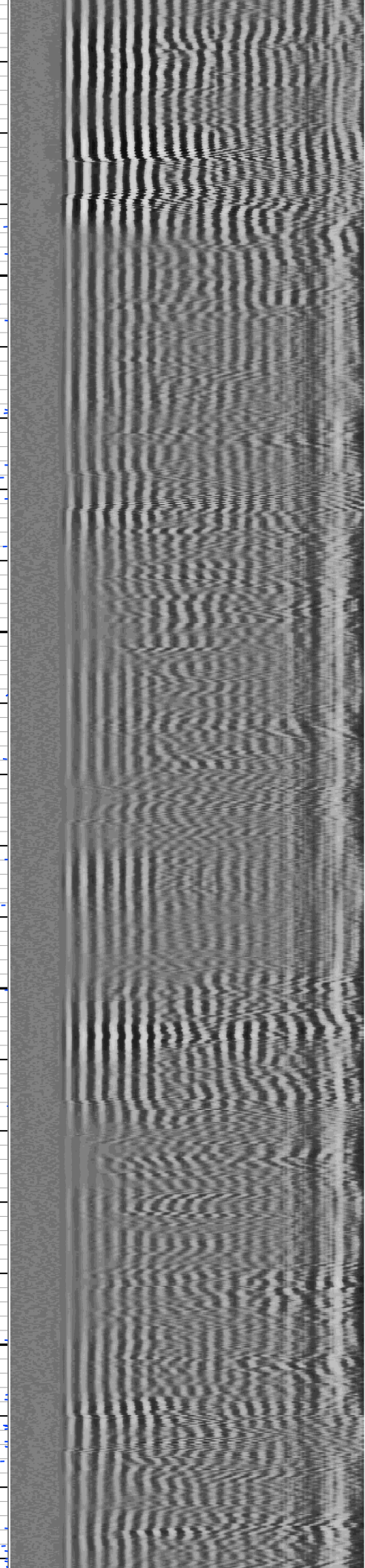
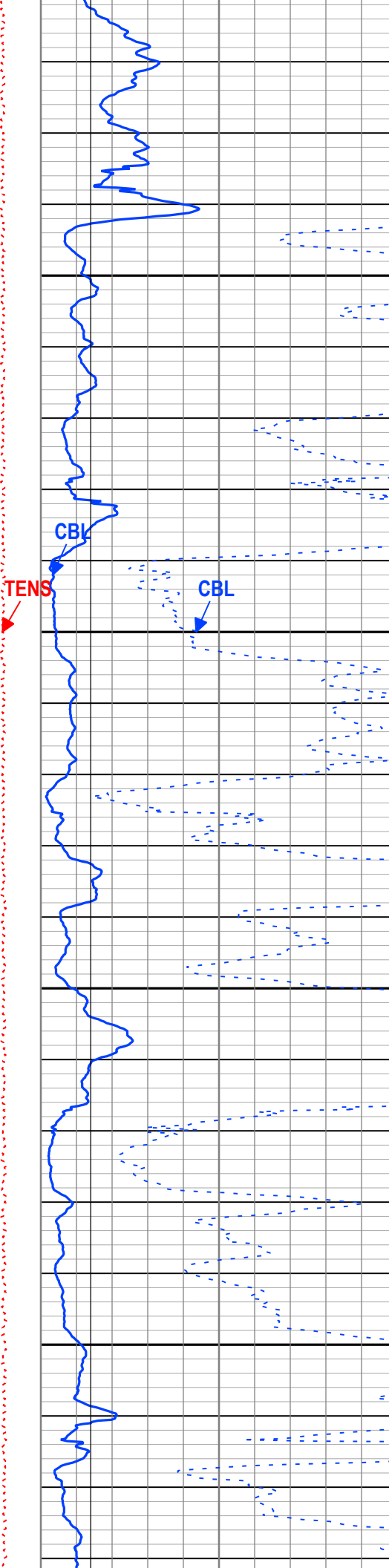
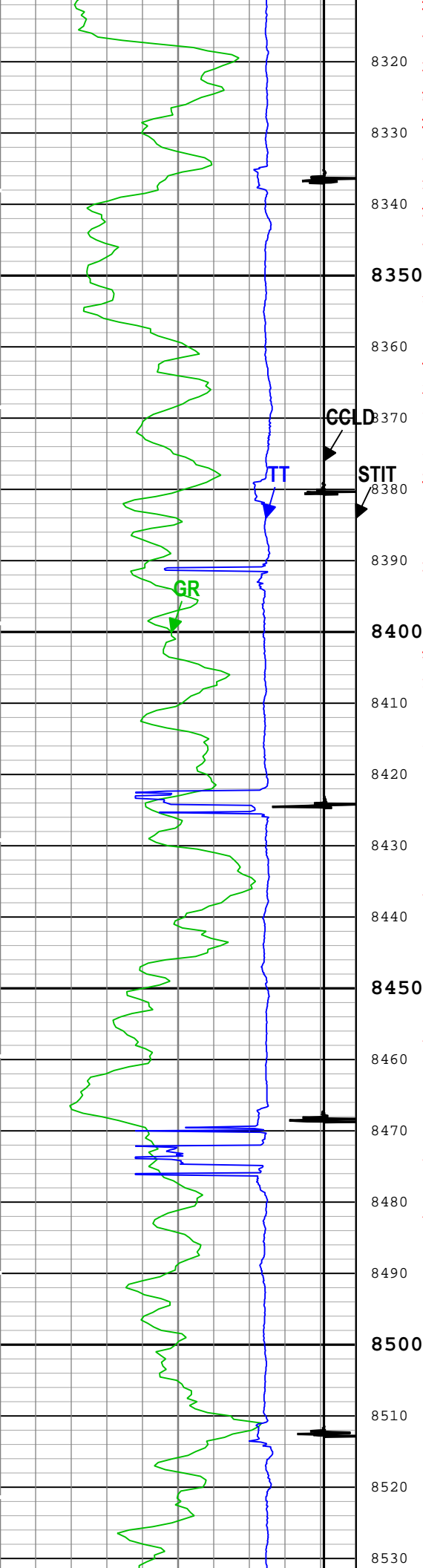


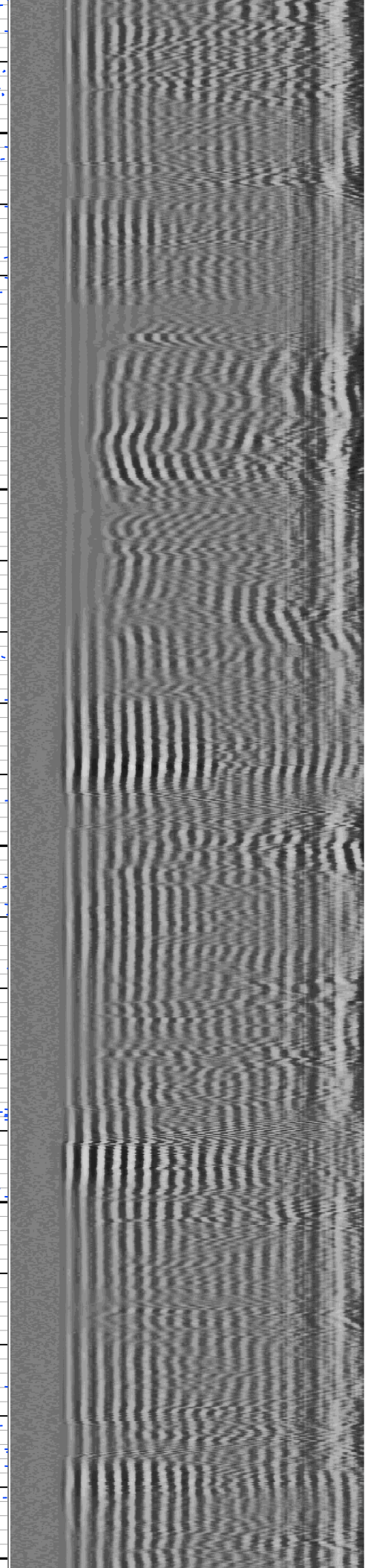
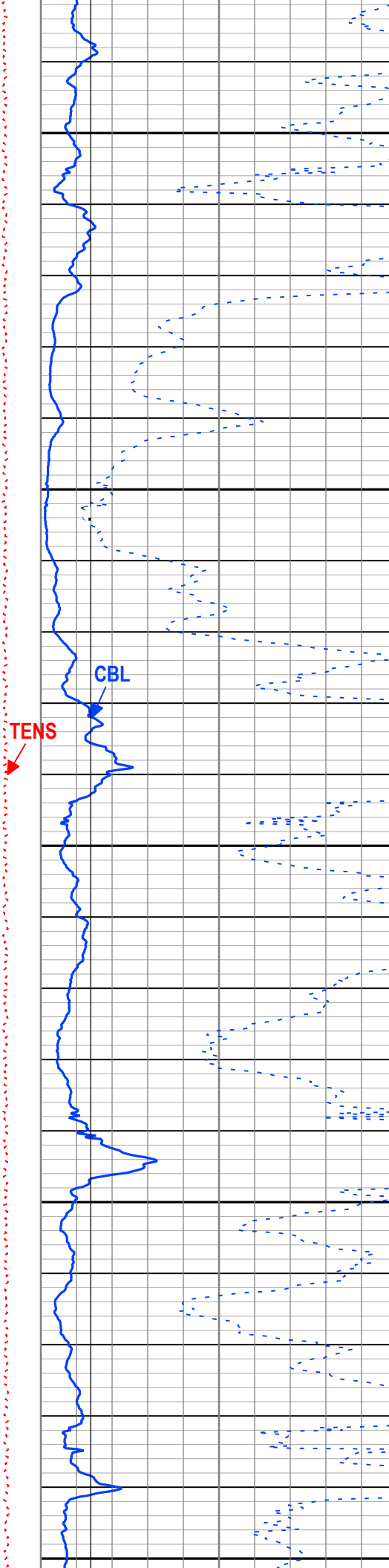
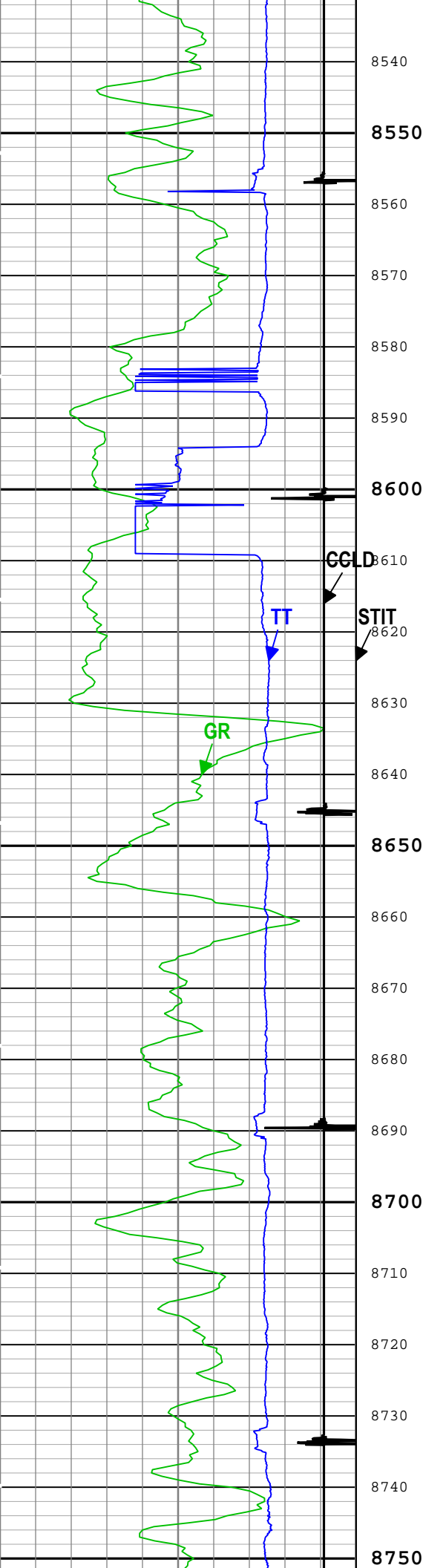


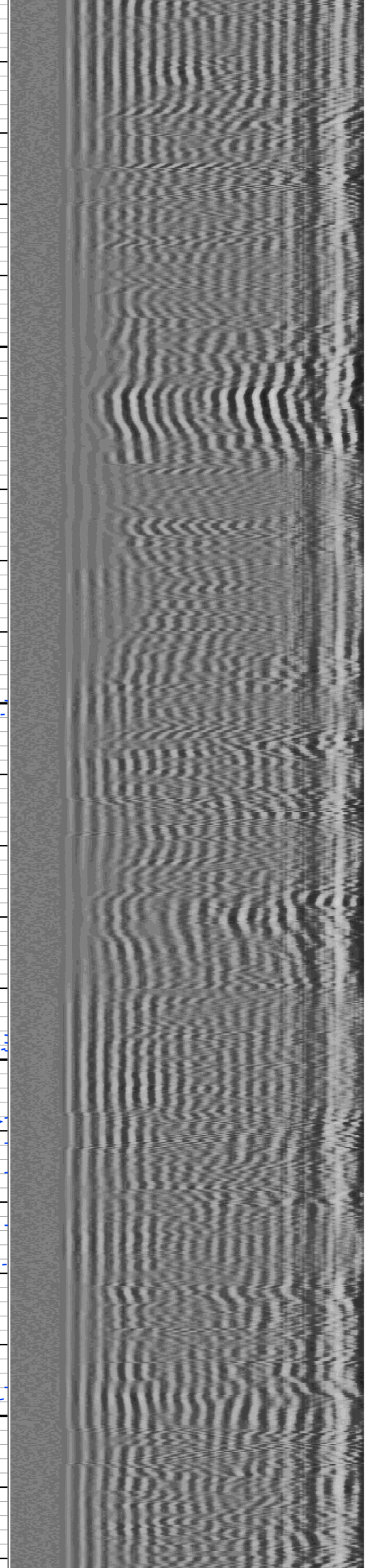
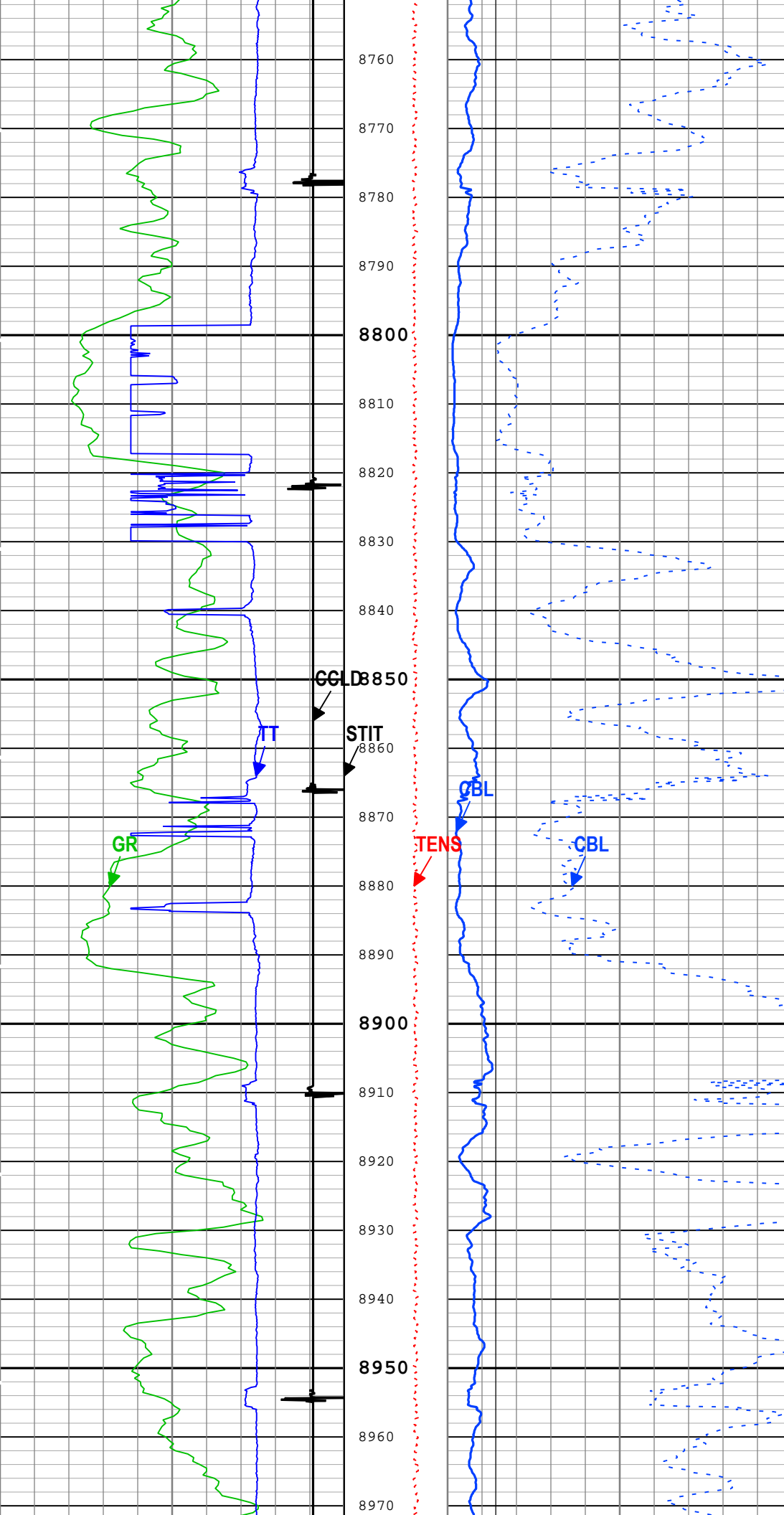


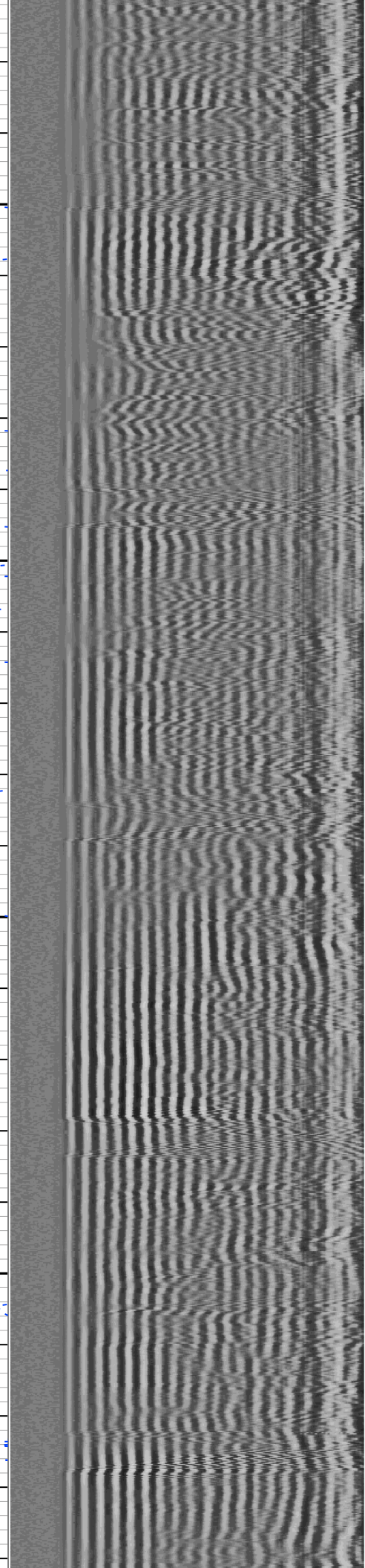
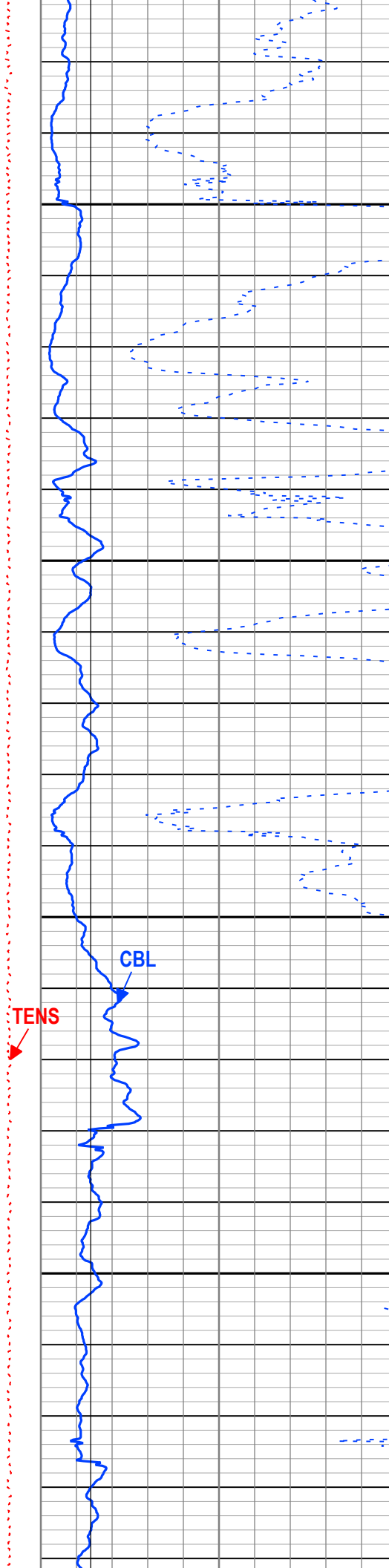
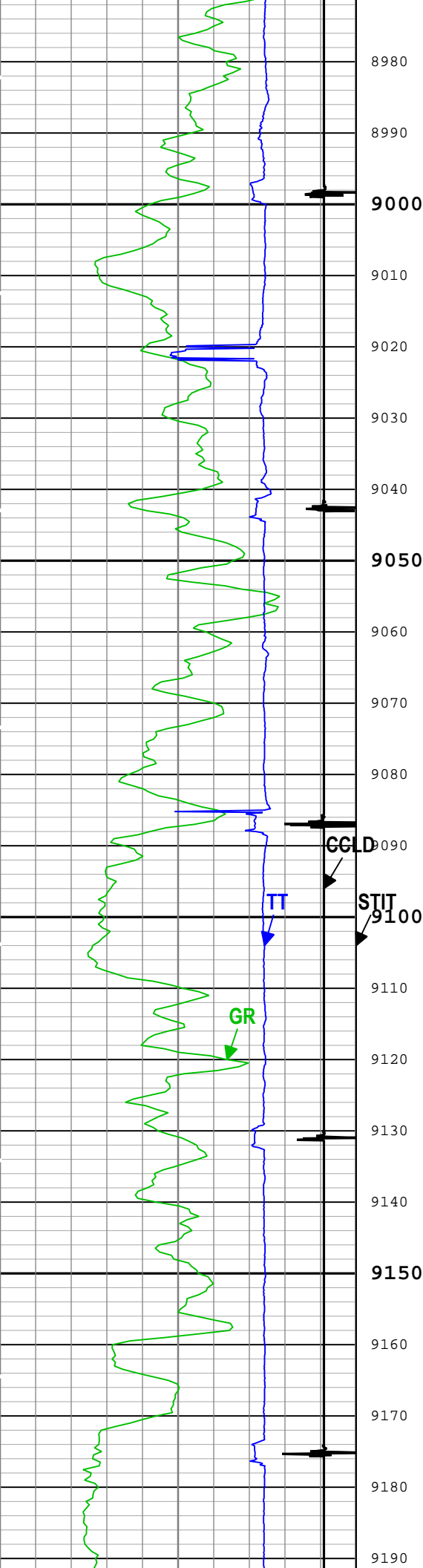


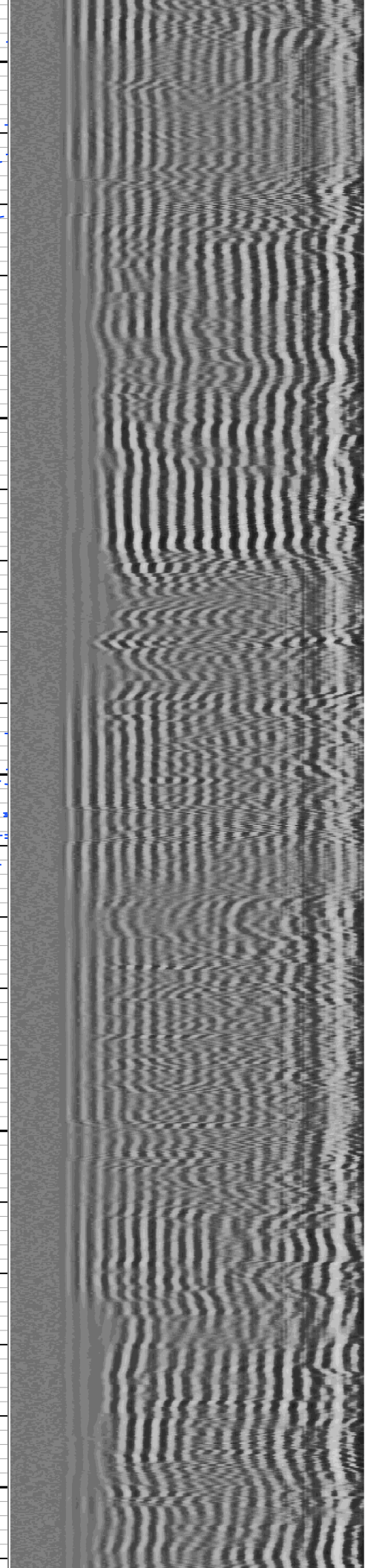
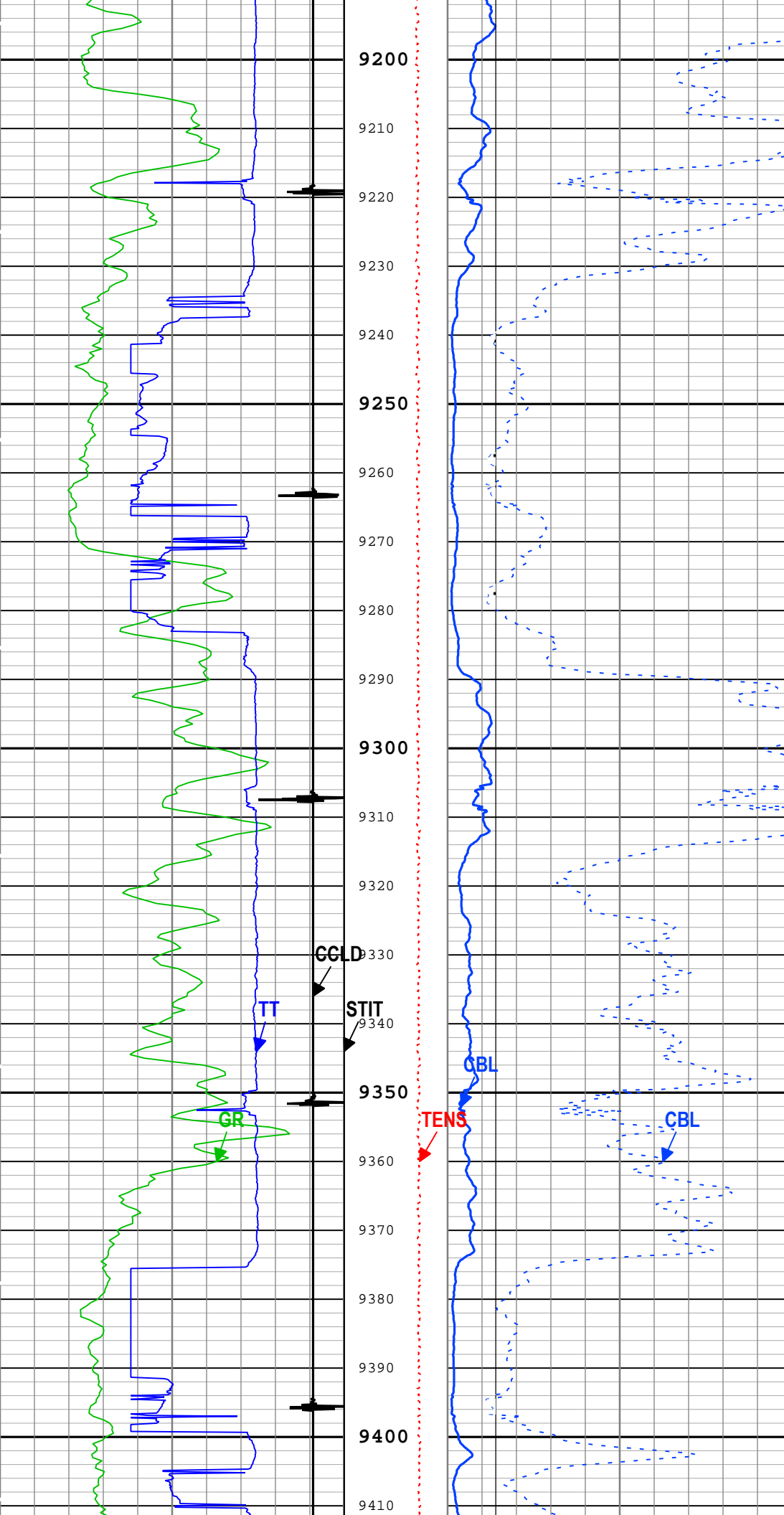


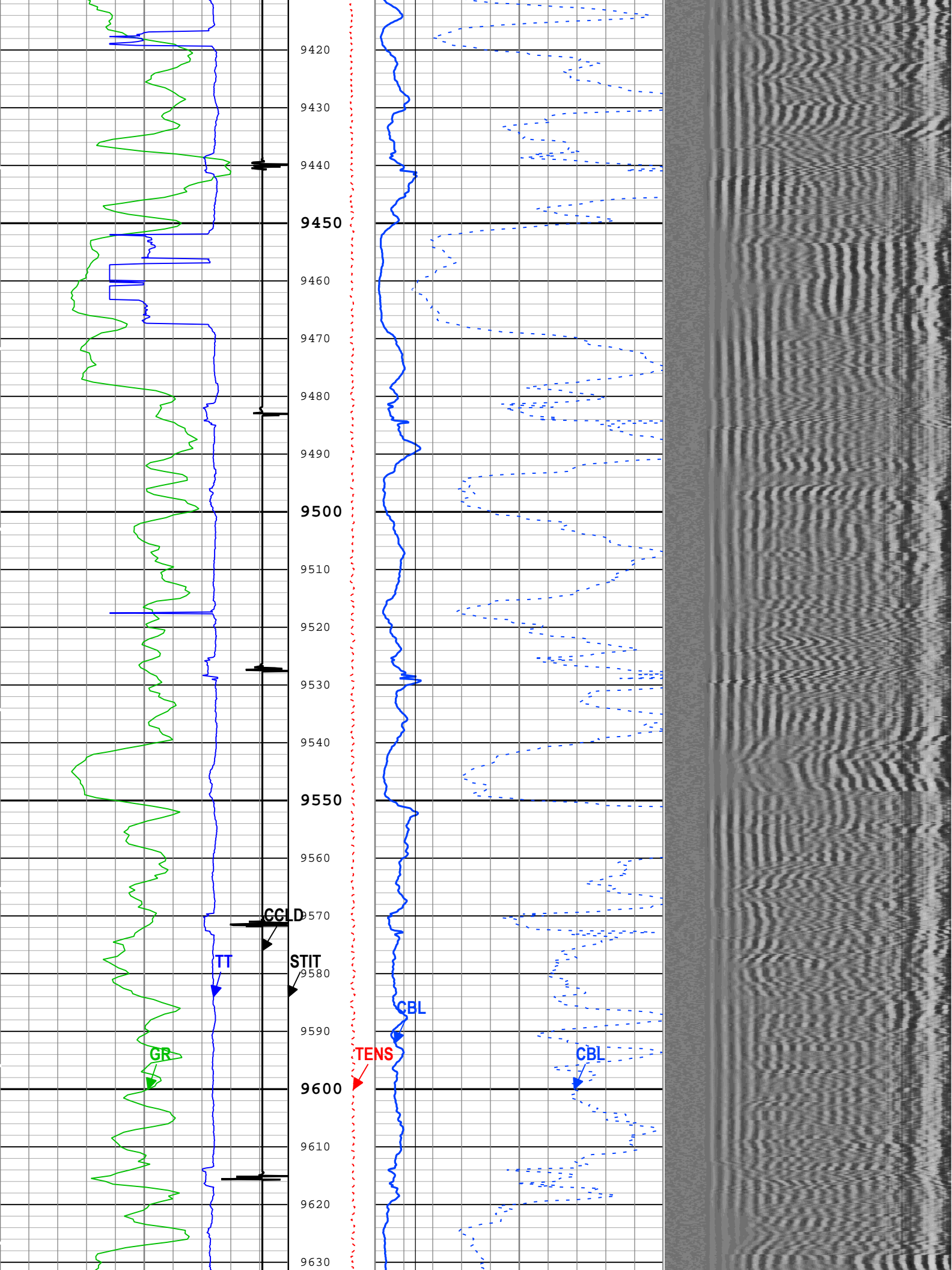


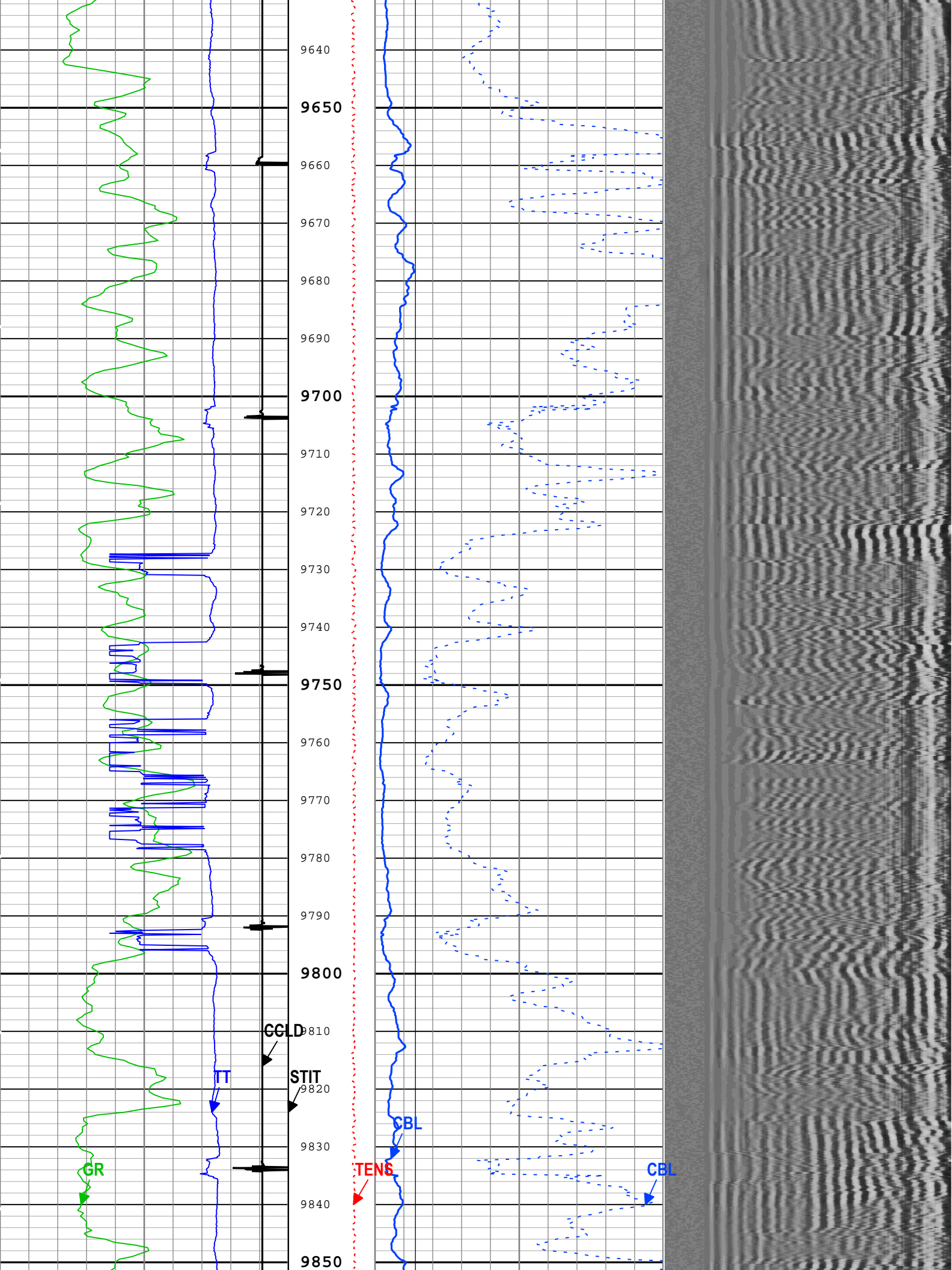


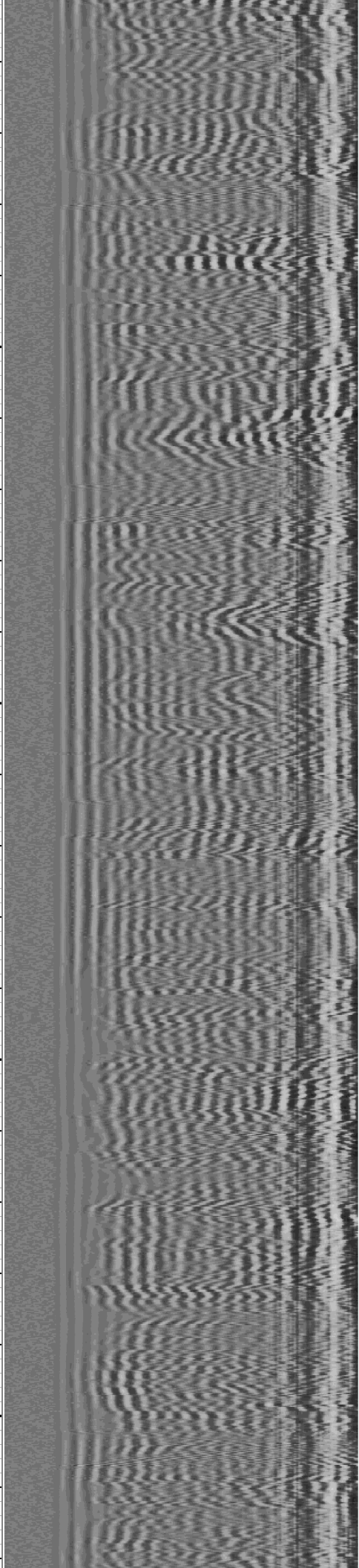
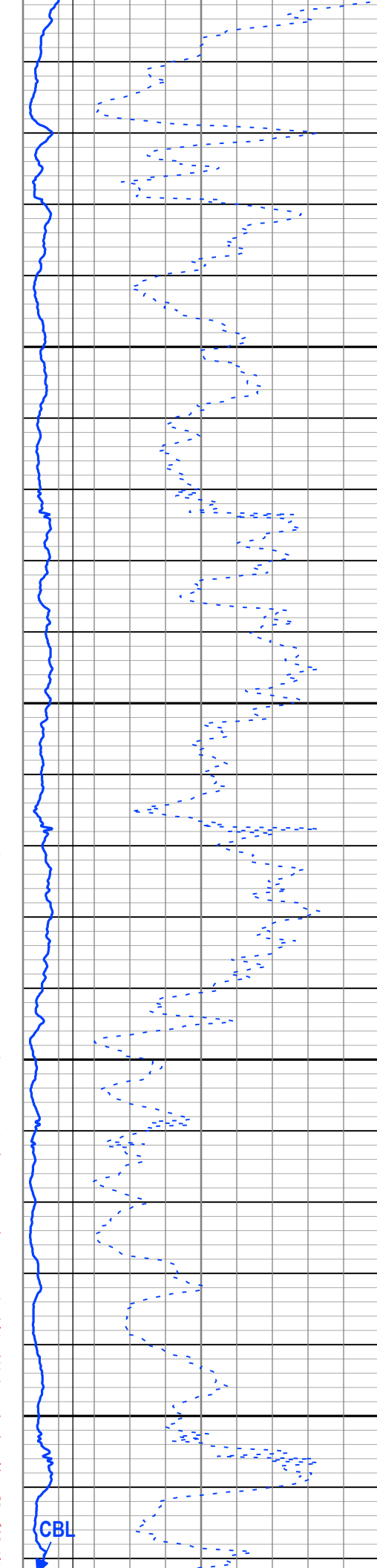
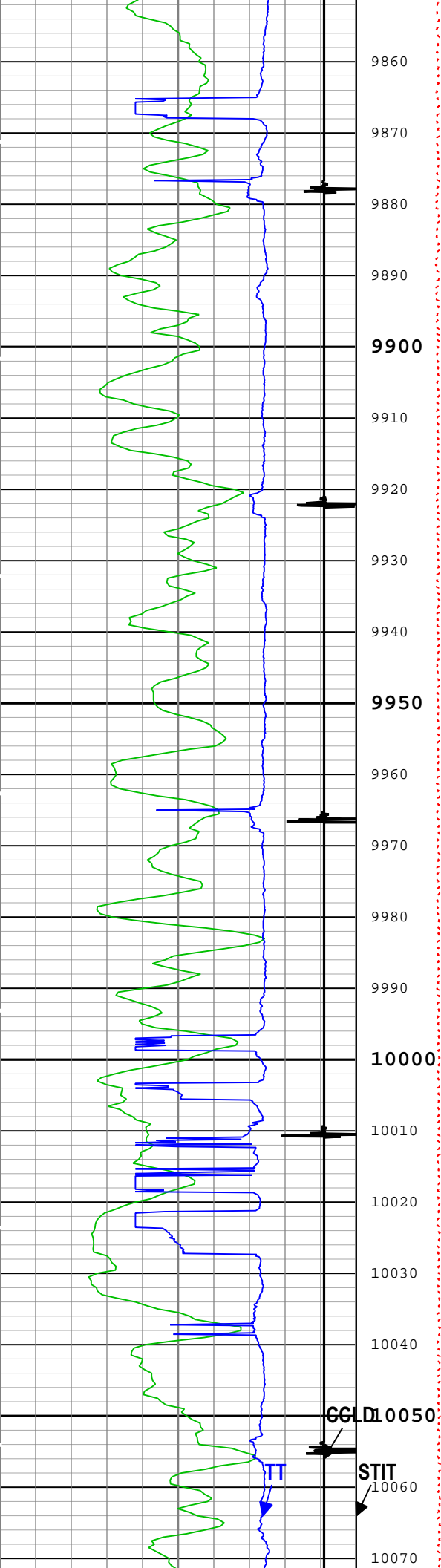


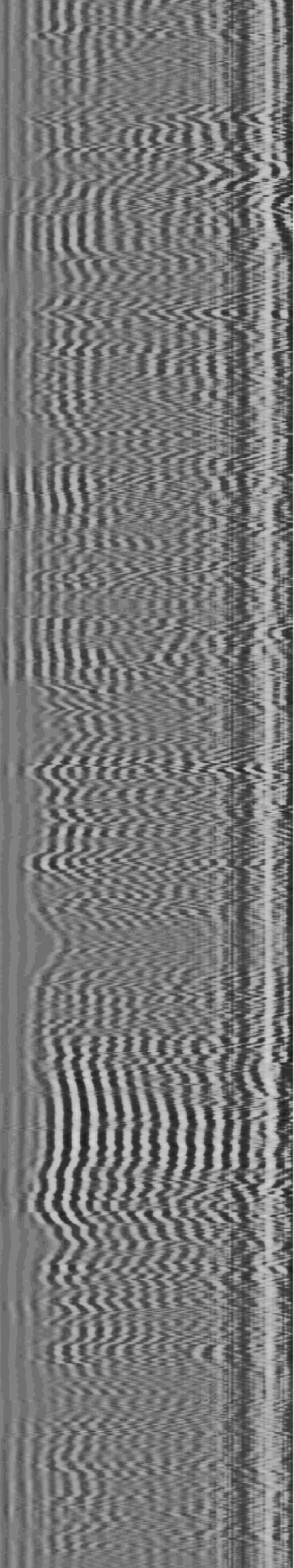
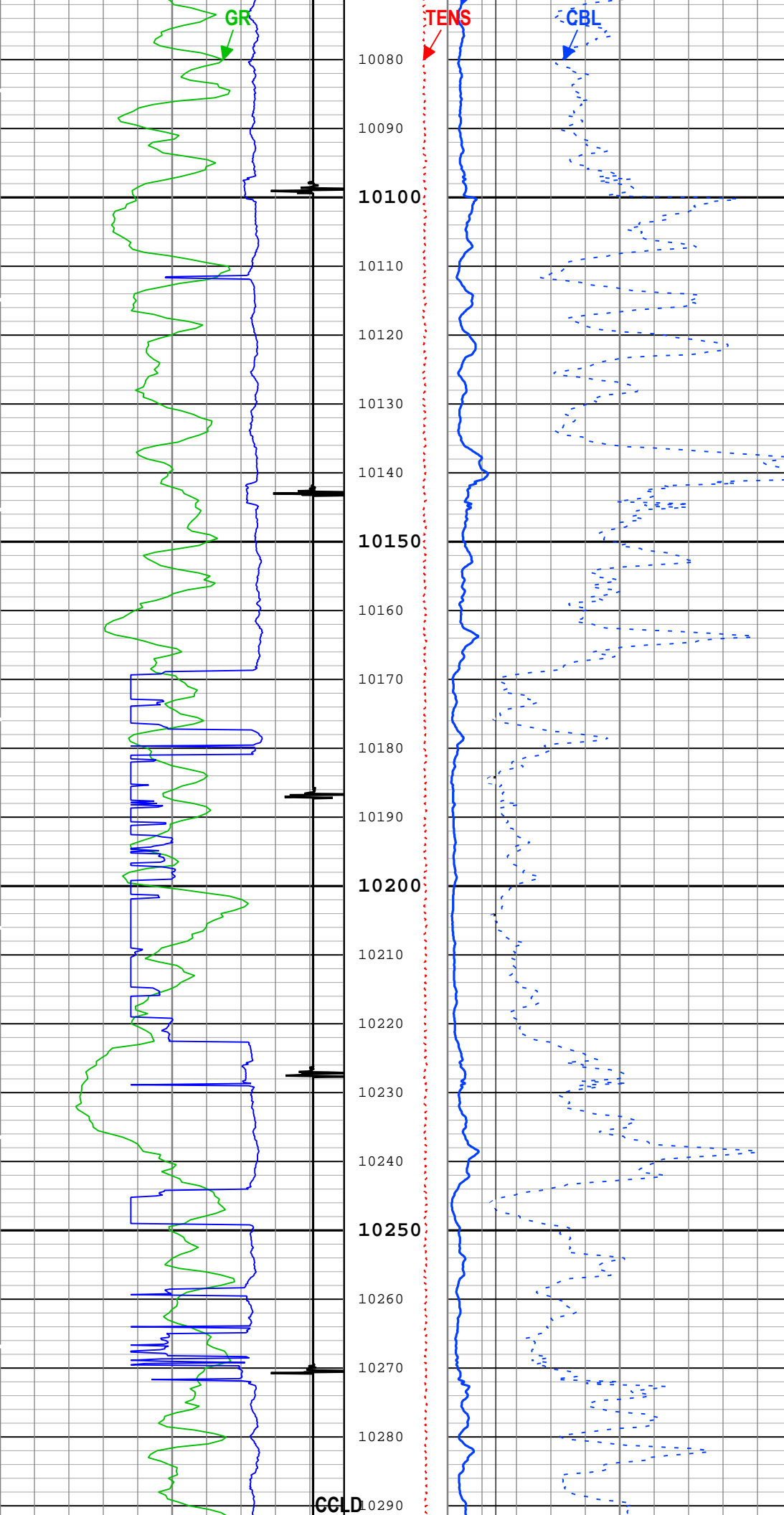


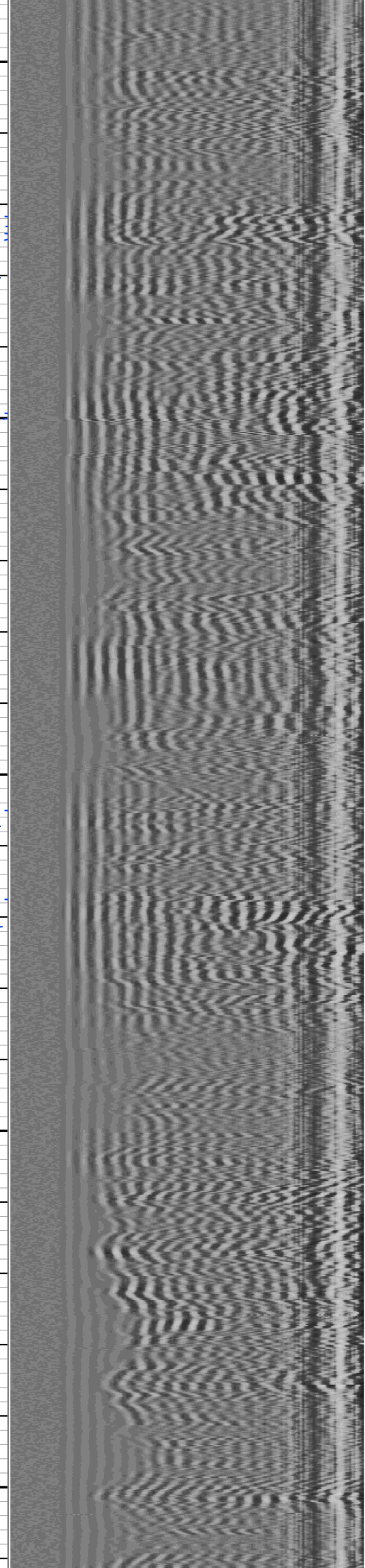
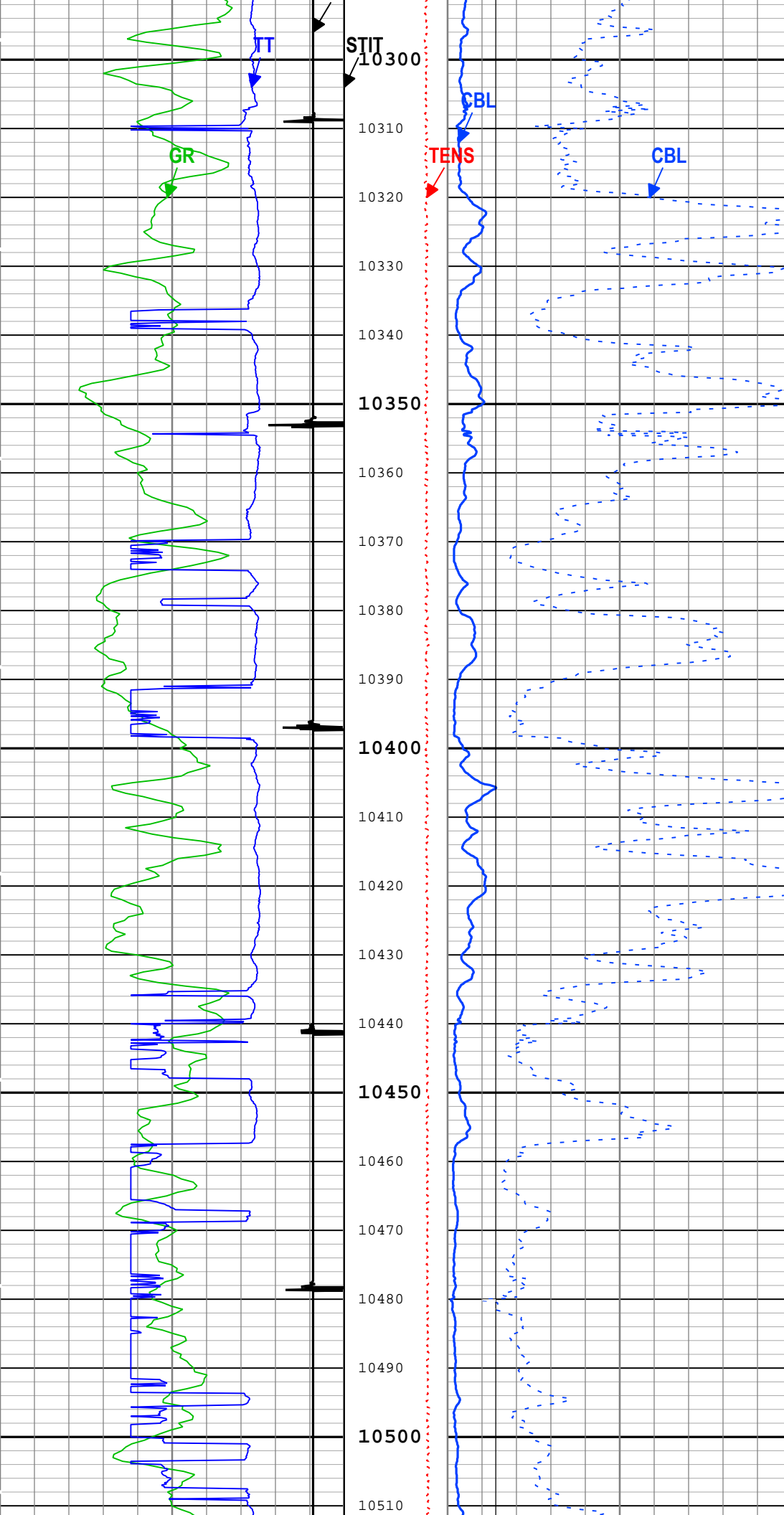


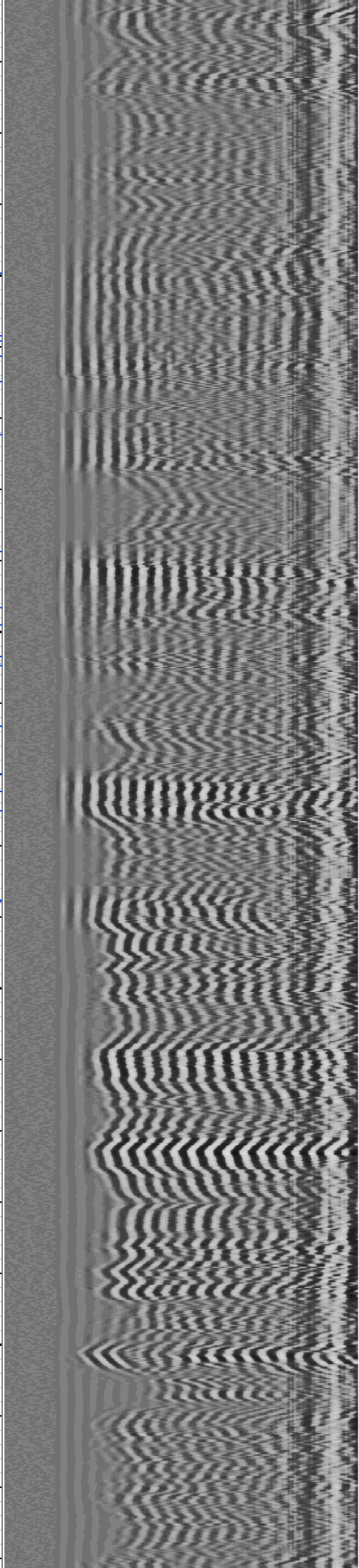
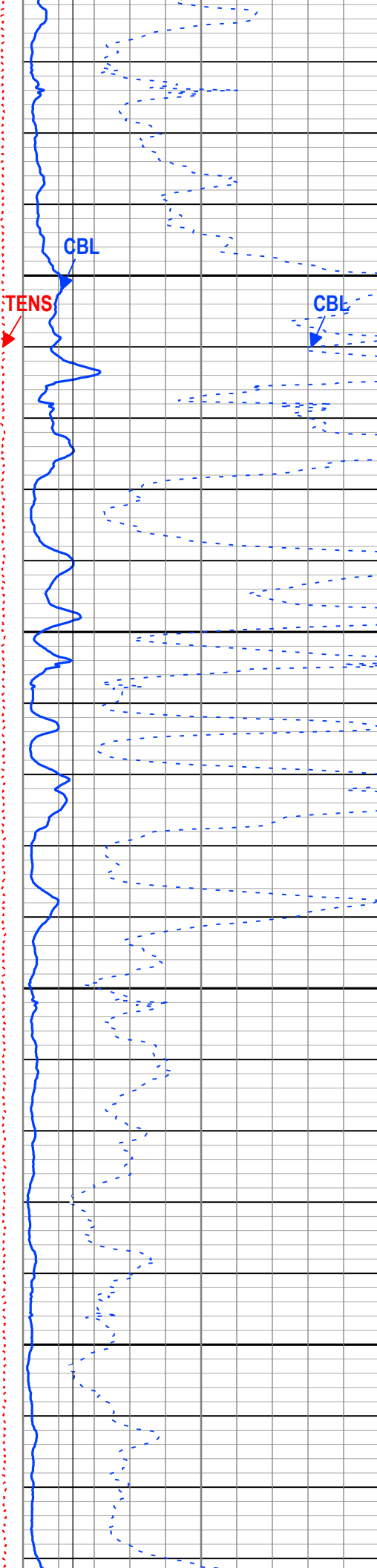
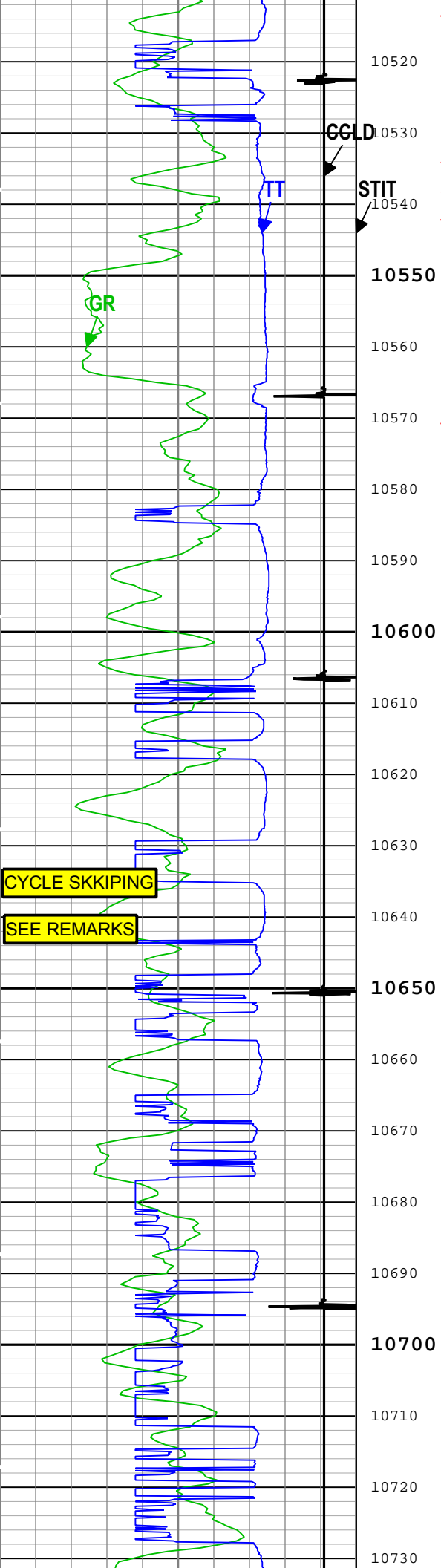


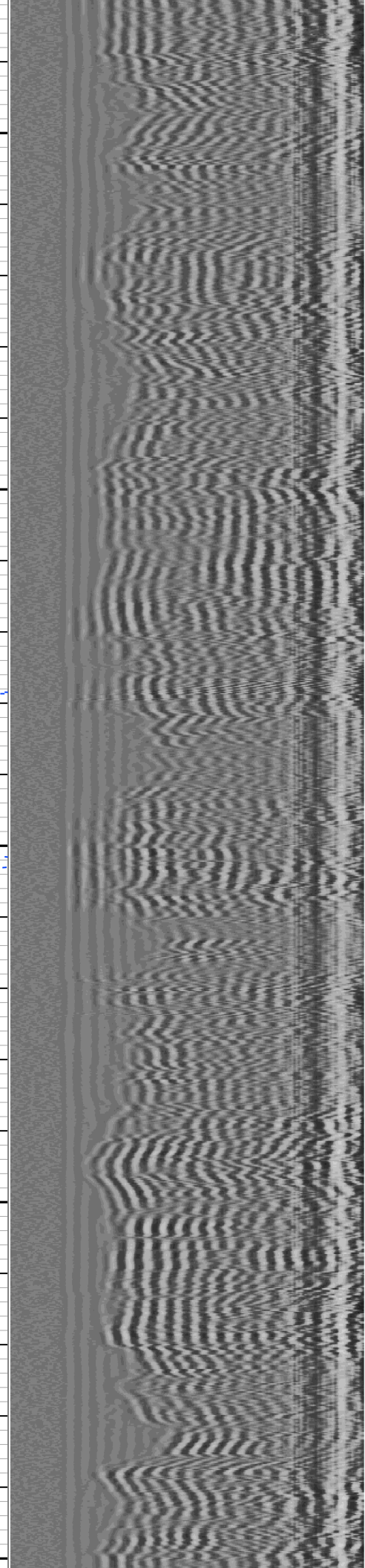
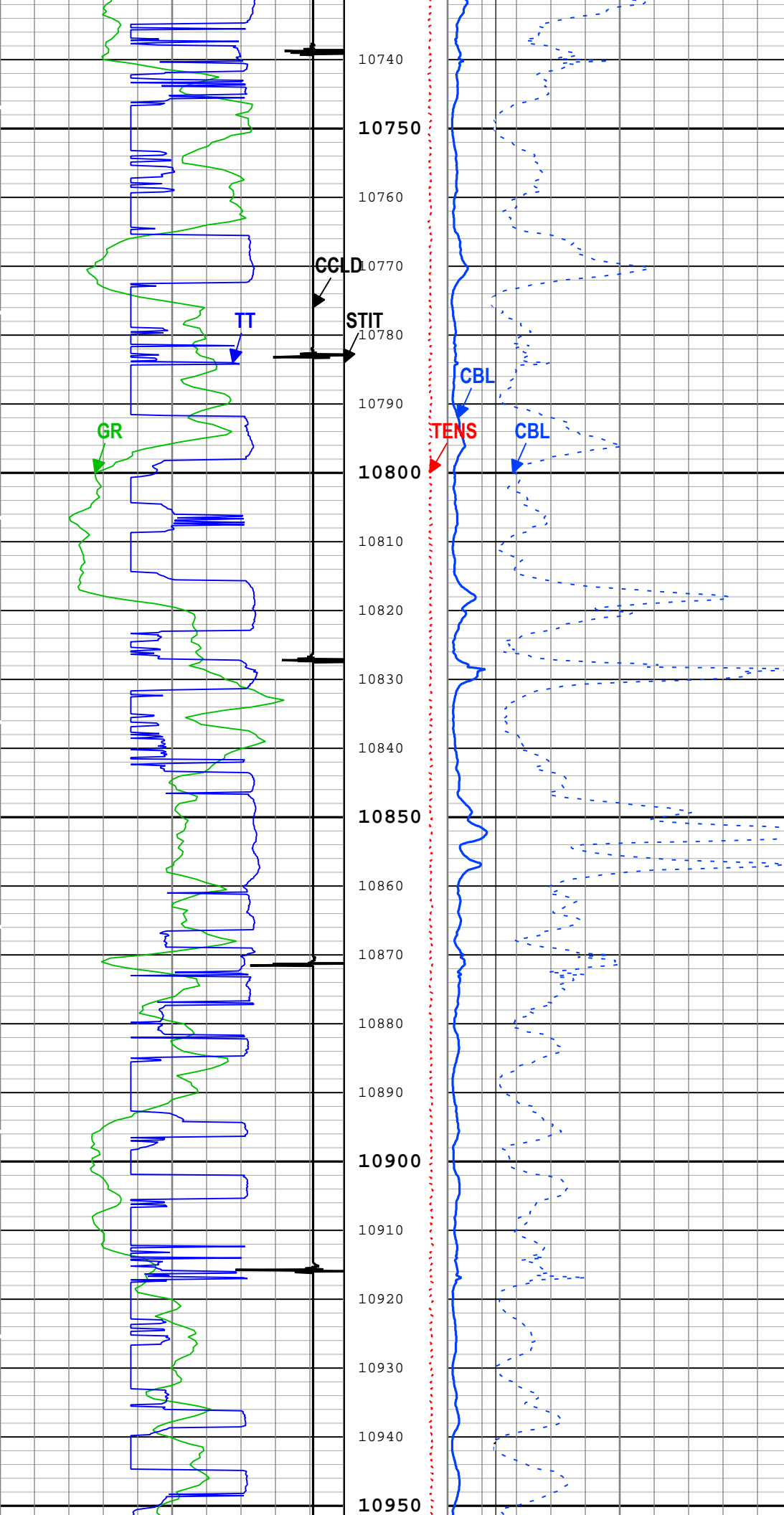


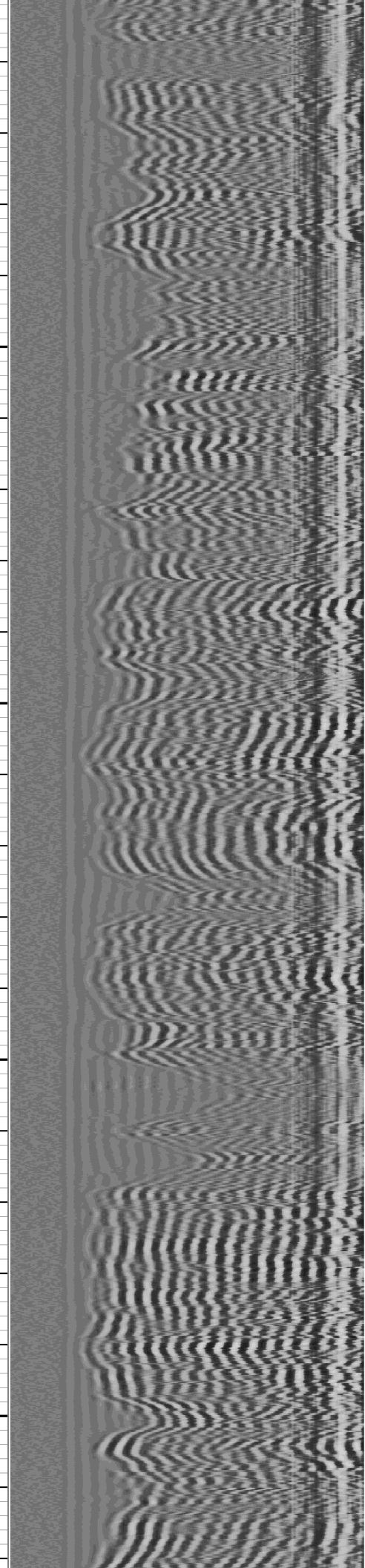
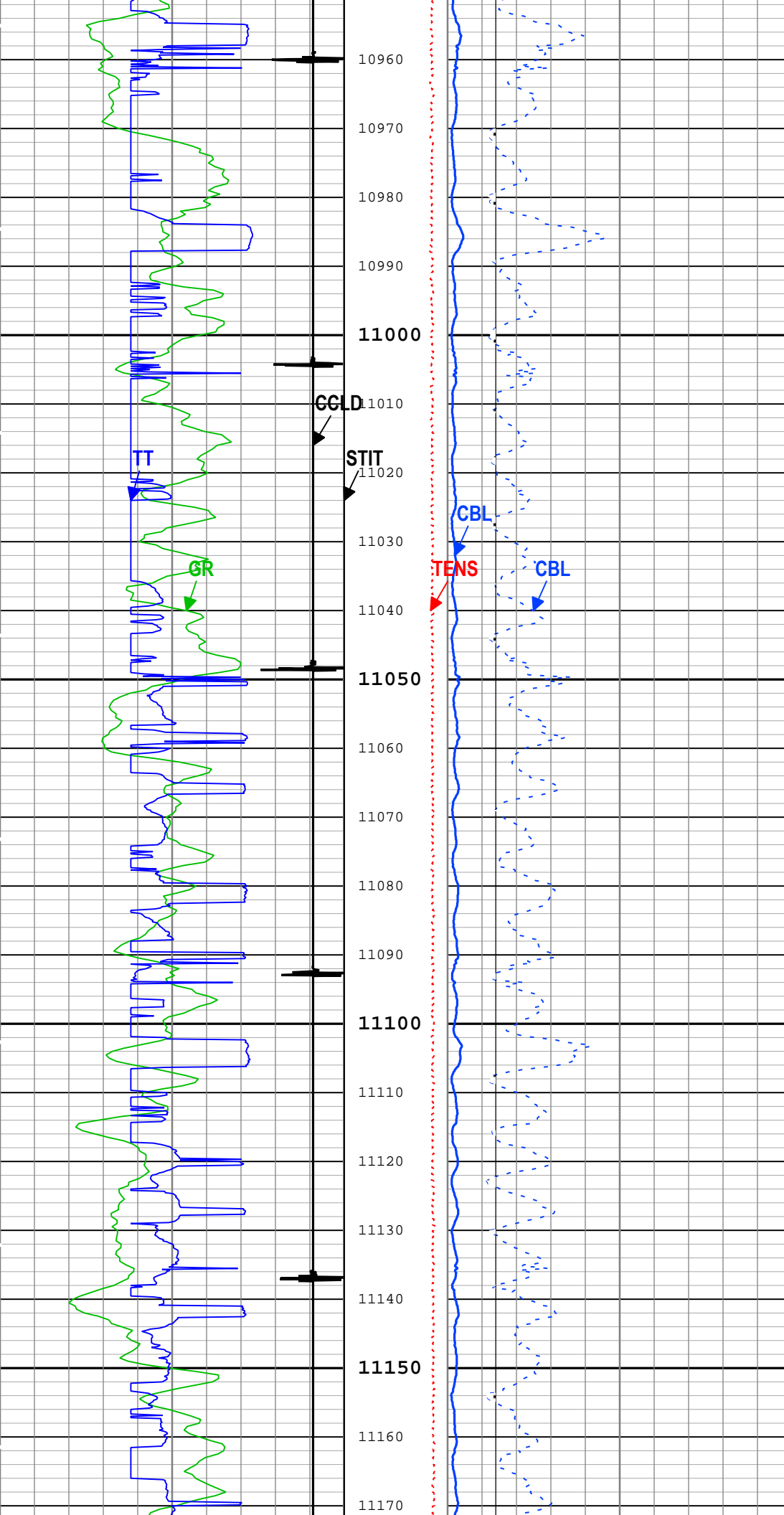


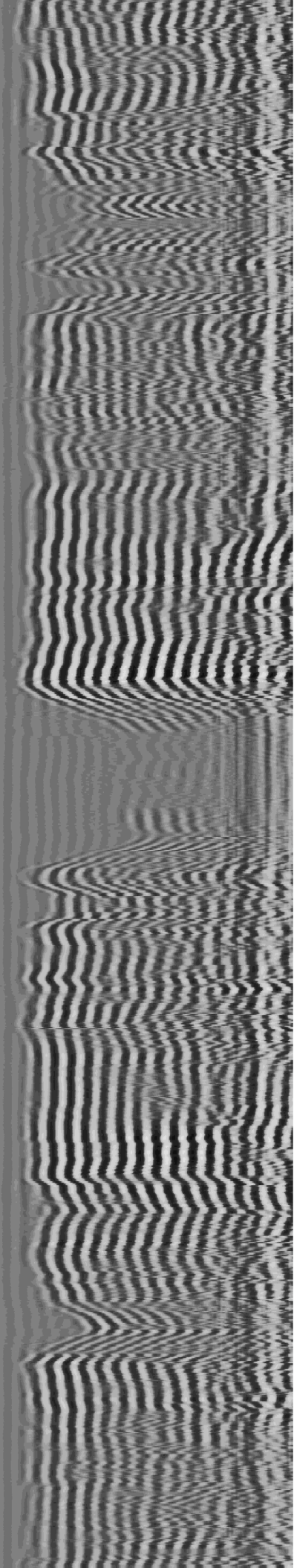
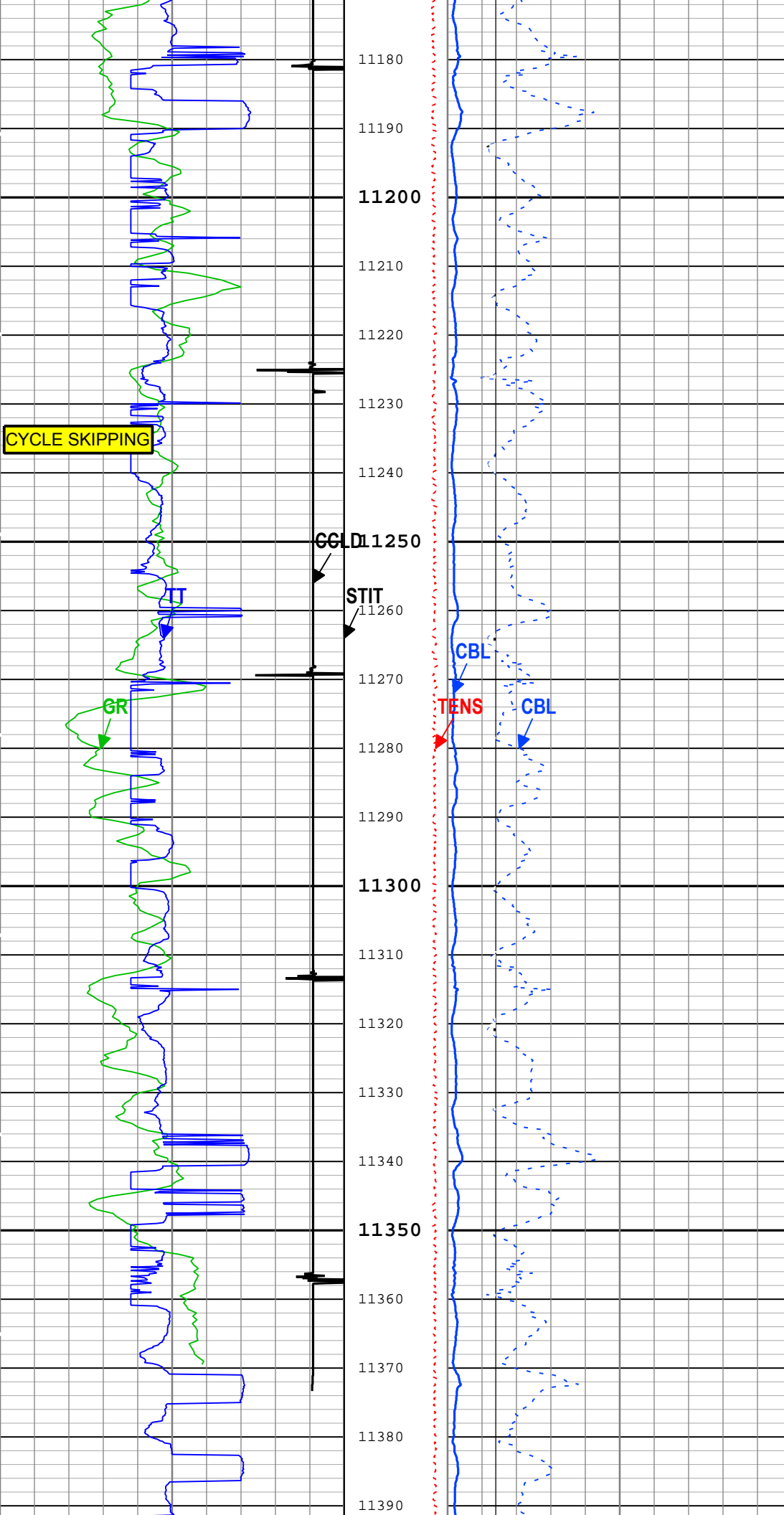


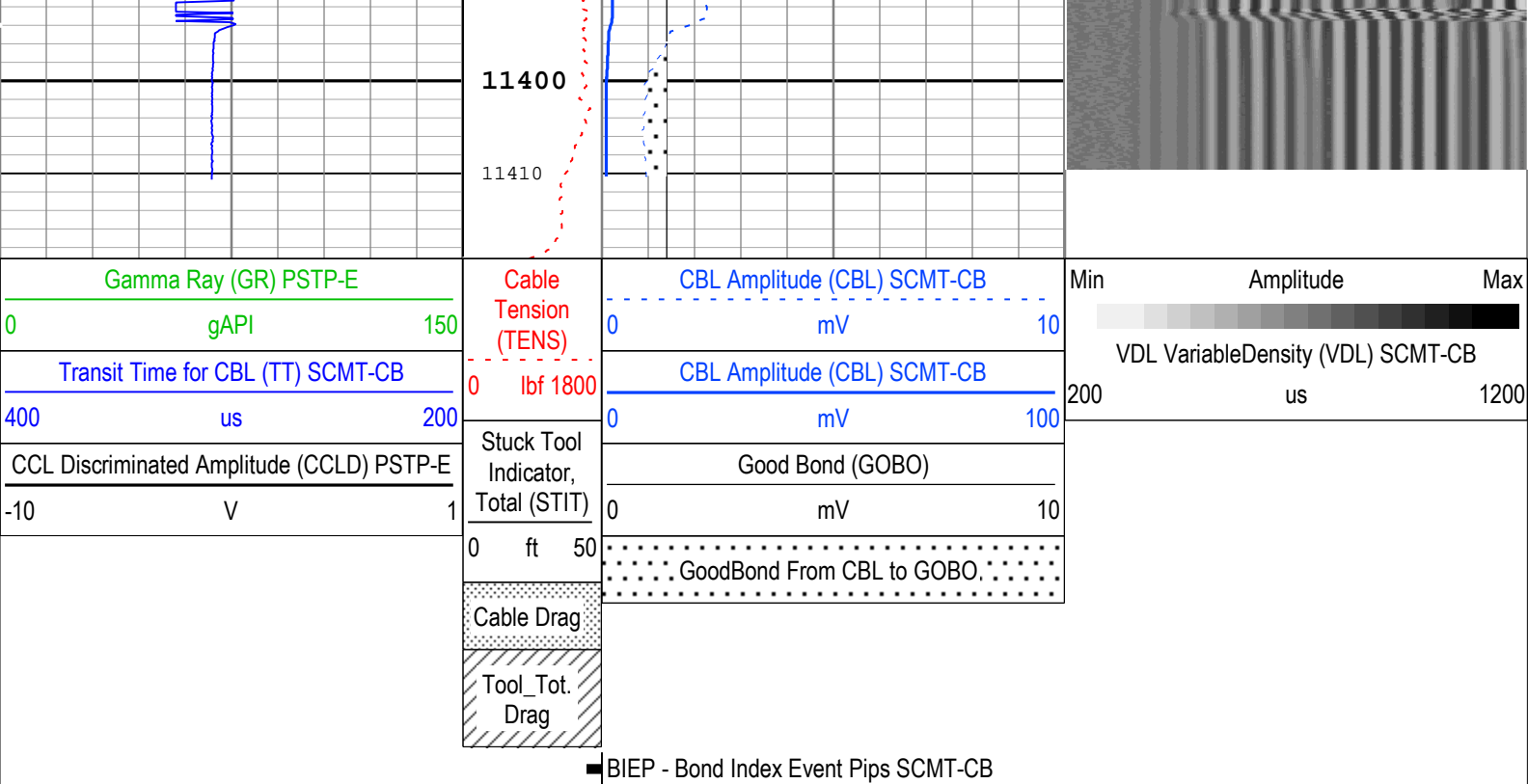












TIME_1900 - Time Marked every 60.00 (s)

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: 08-Mar-2019 11:40:06

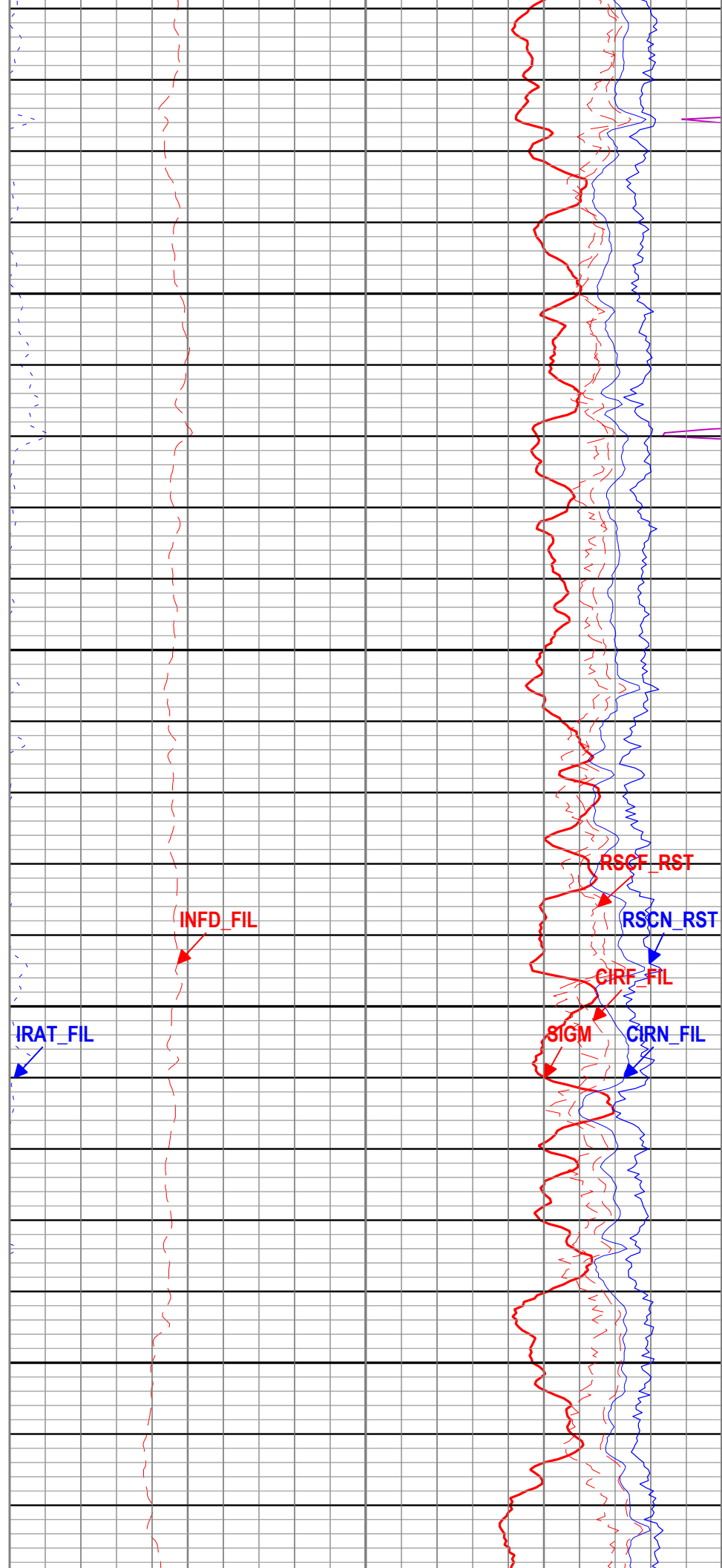
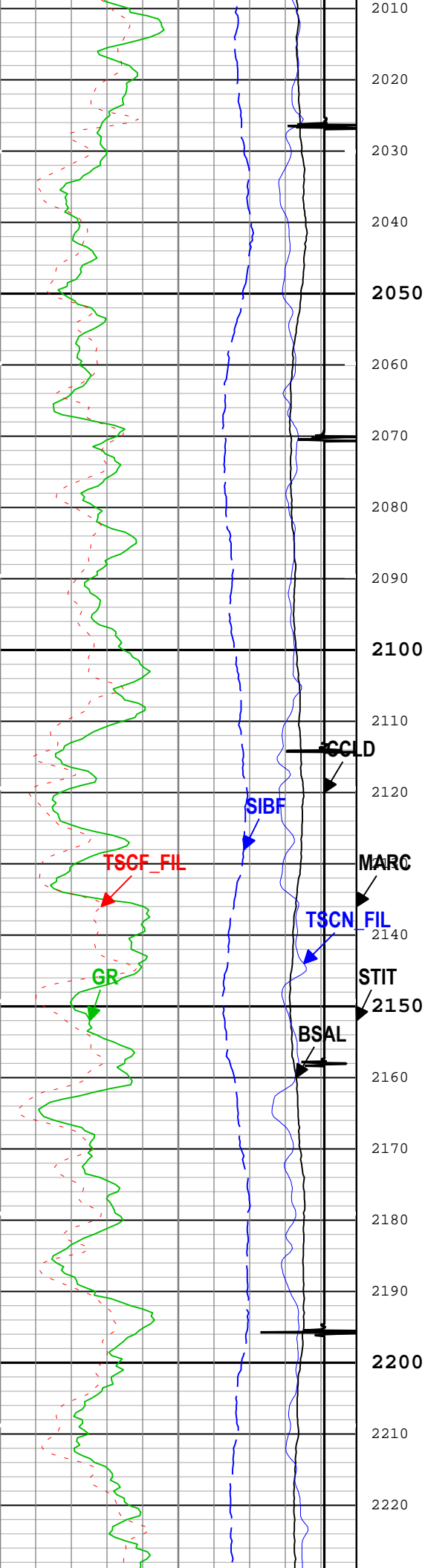
Channel Processing Parameters

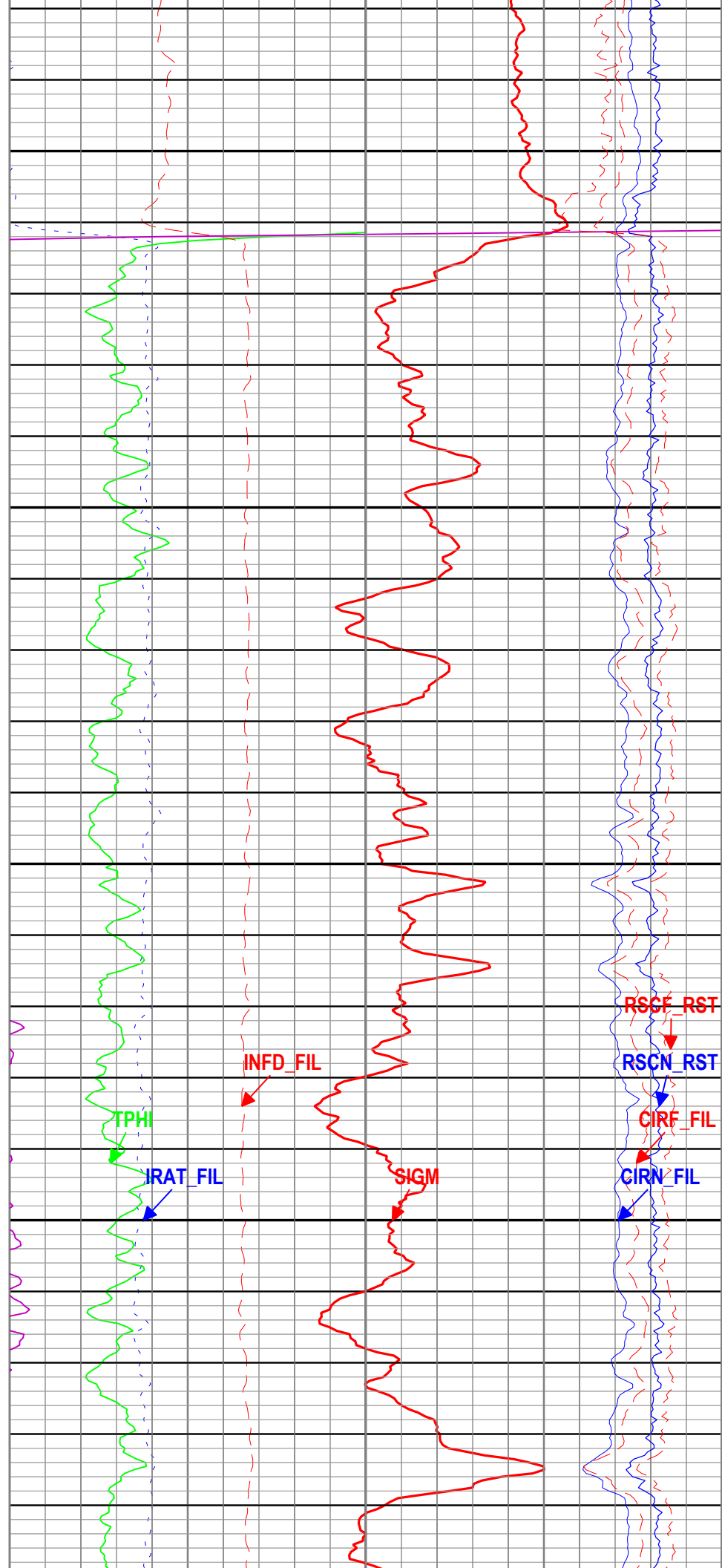
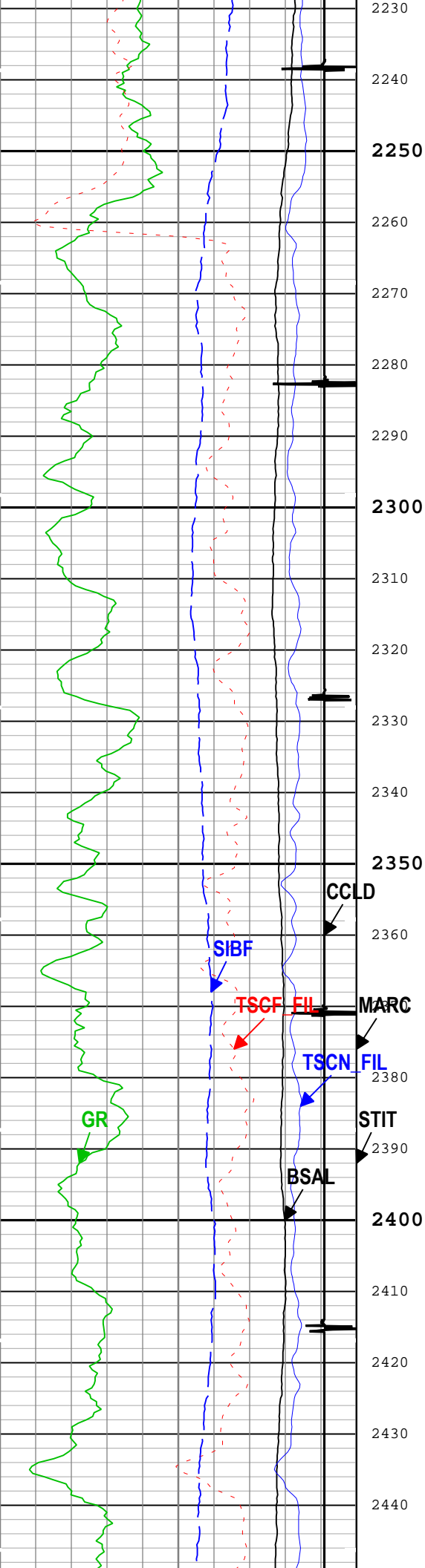
ONE: Parameters

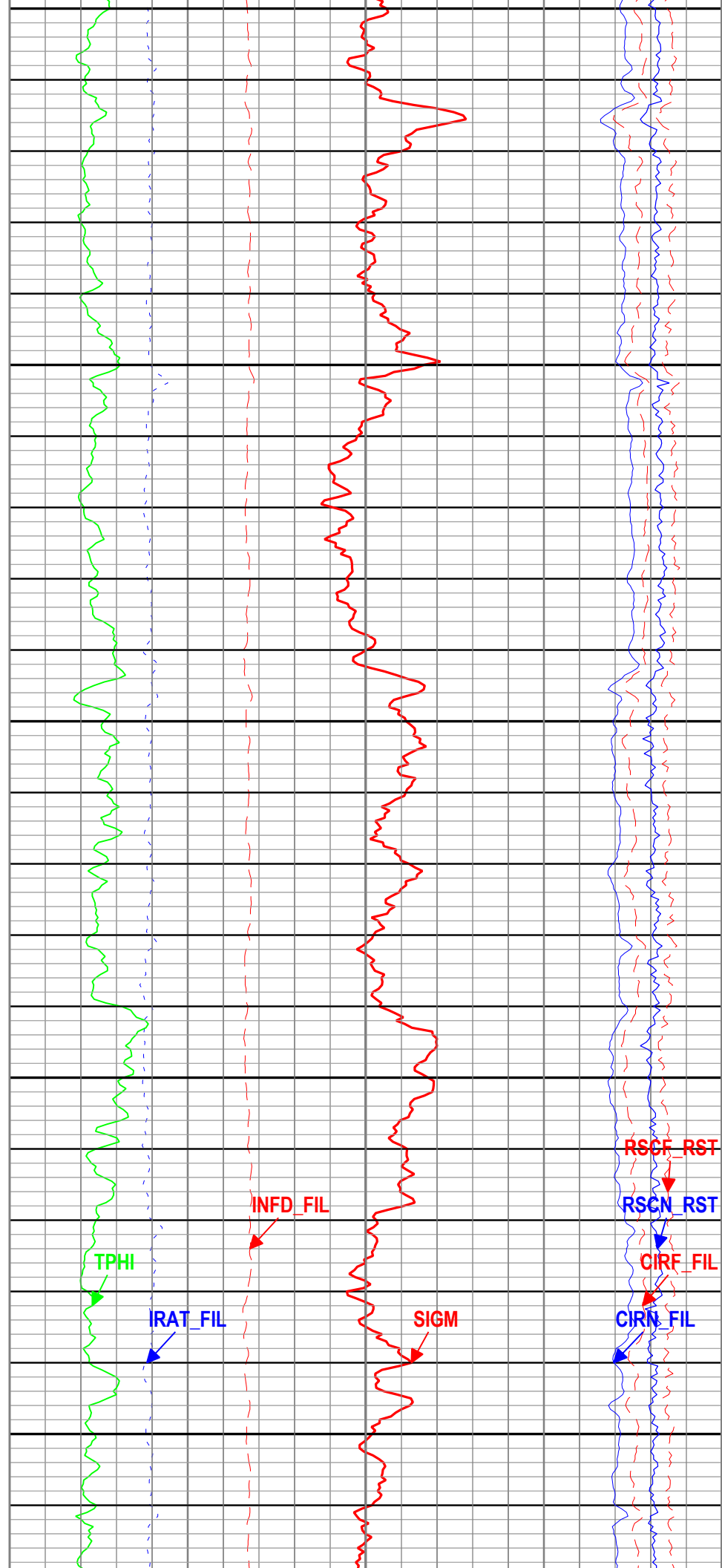
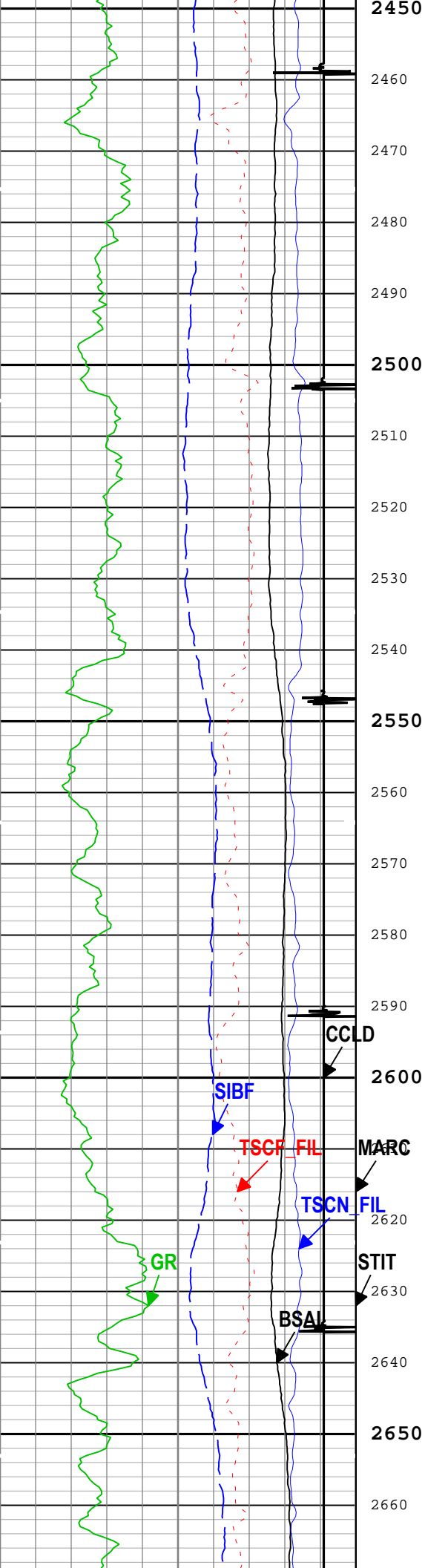
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	275	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	59	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
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

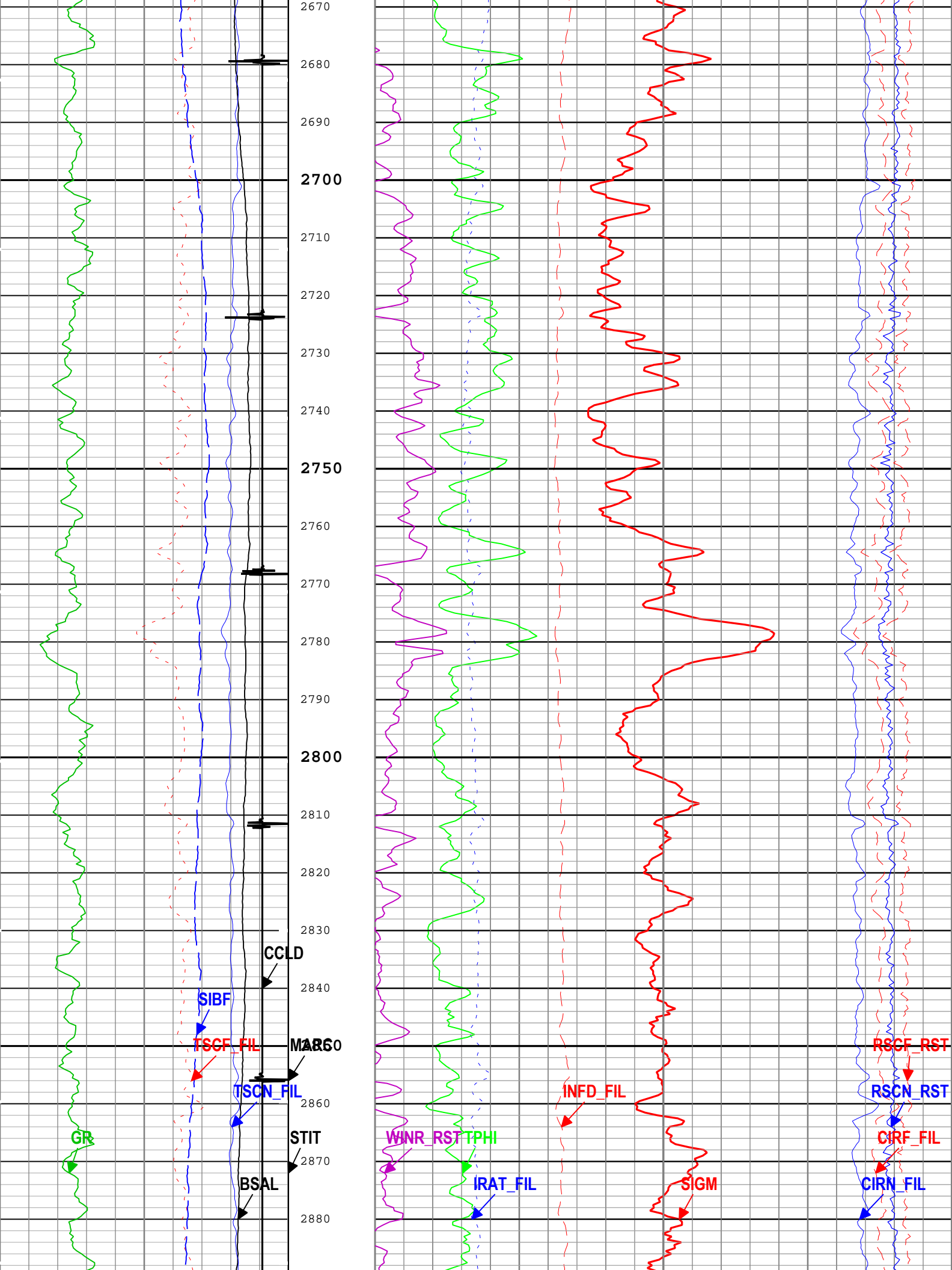
Depth Zone Parameters

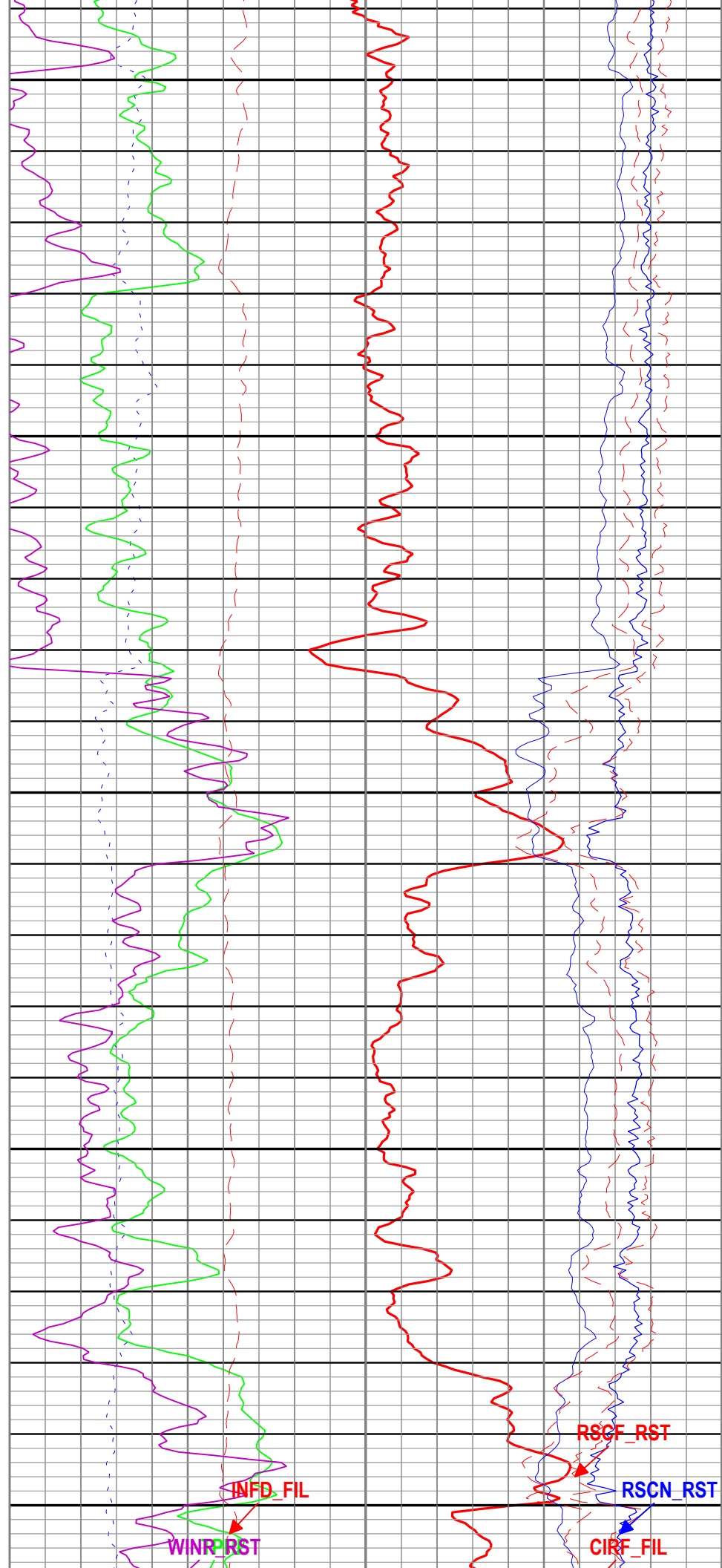
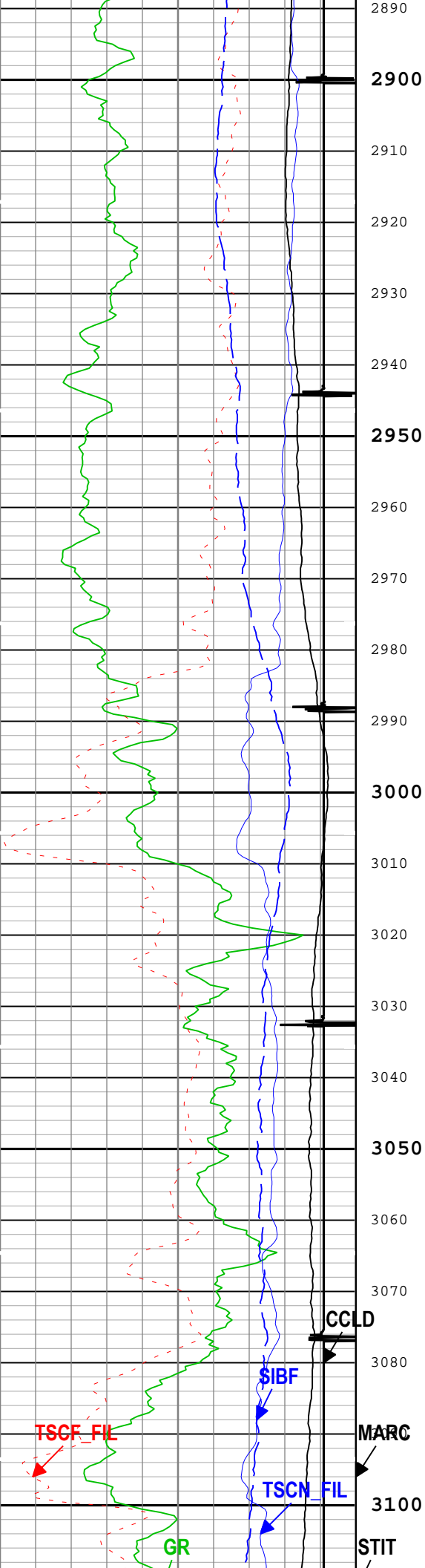
Parameter	Value	Start (ft)	Stop (ft)
MCI	14.81	2000	2984.2
MCI	1.25	2984.2	11419.17

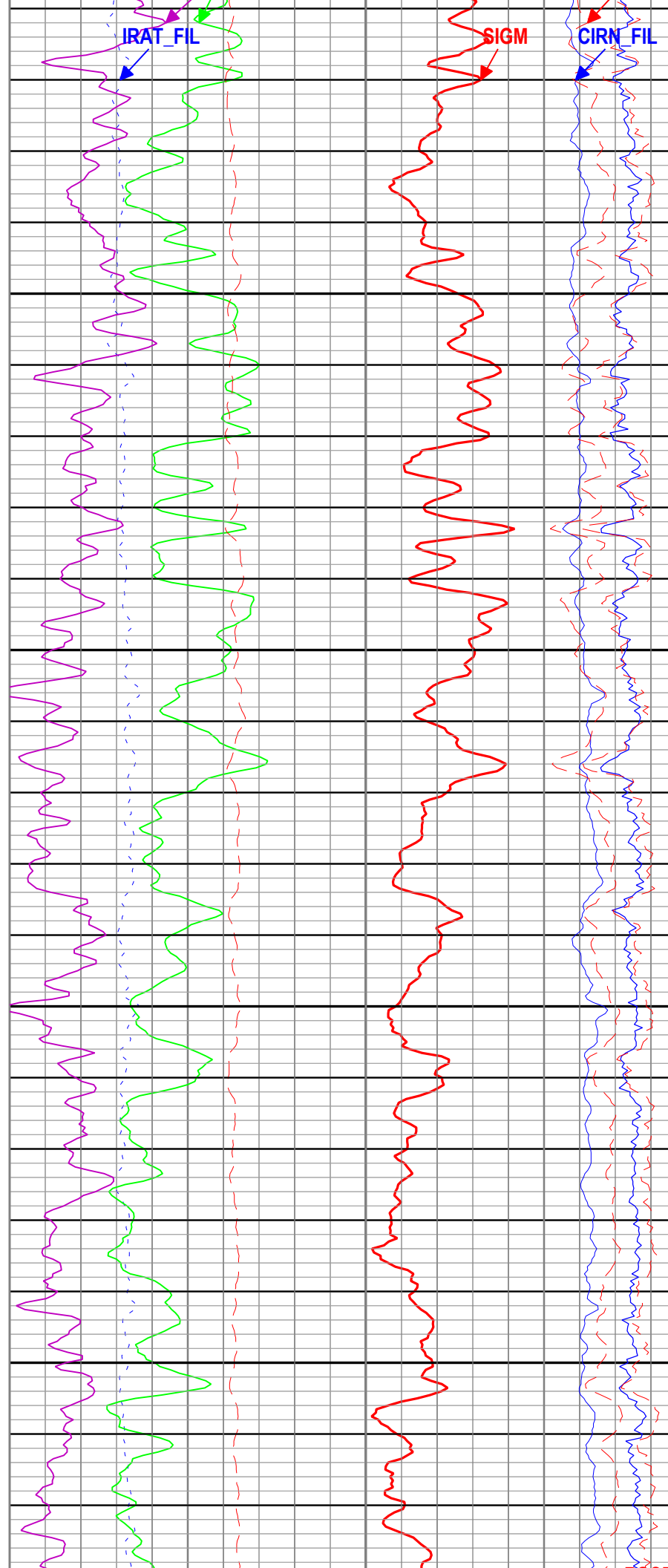
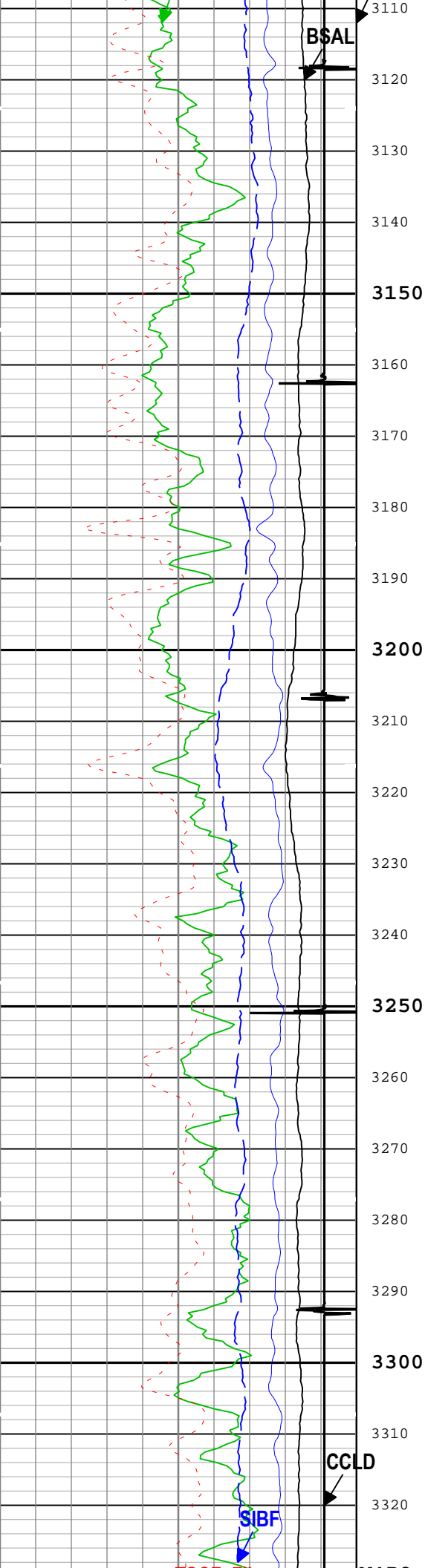


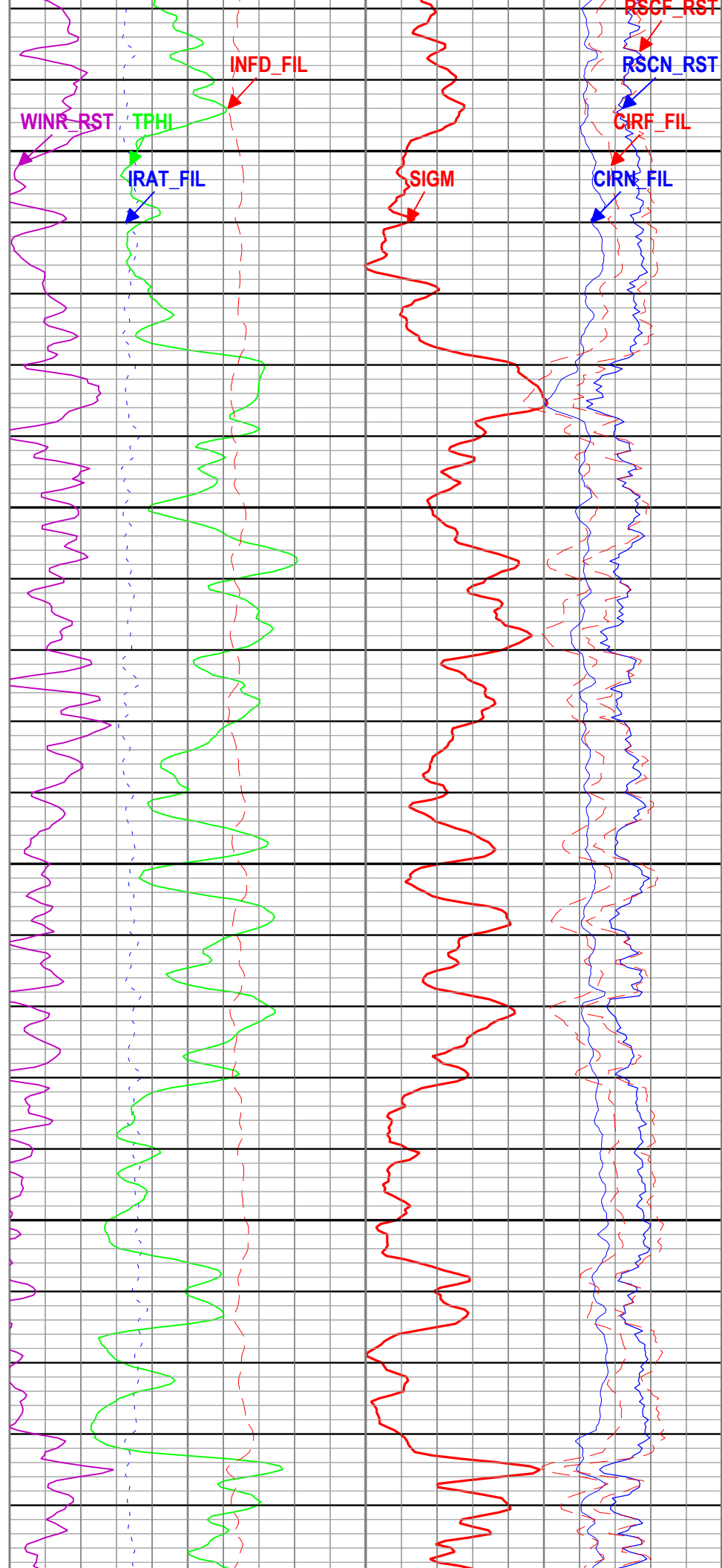
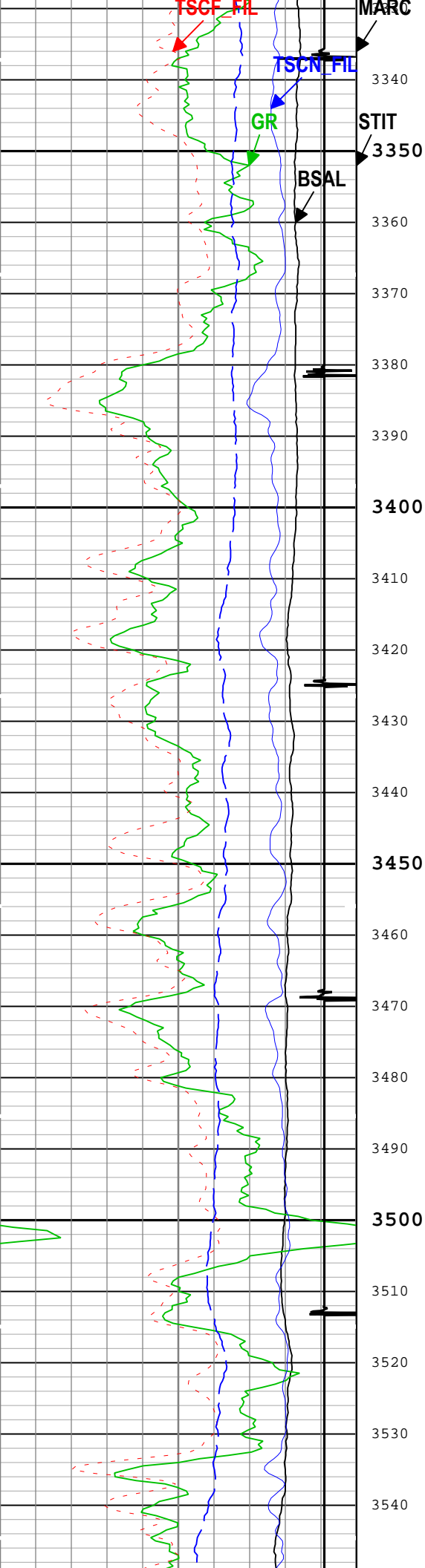


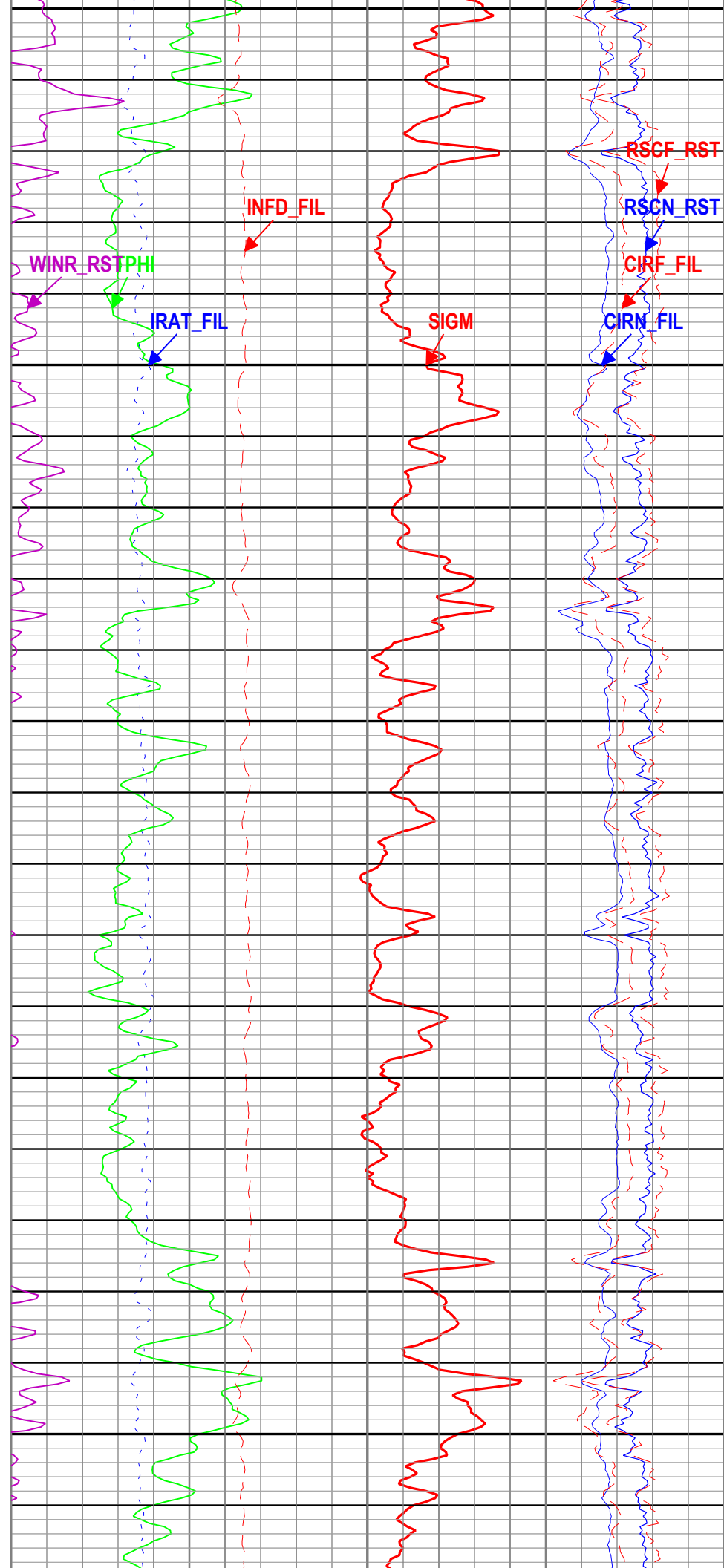
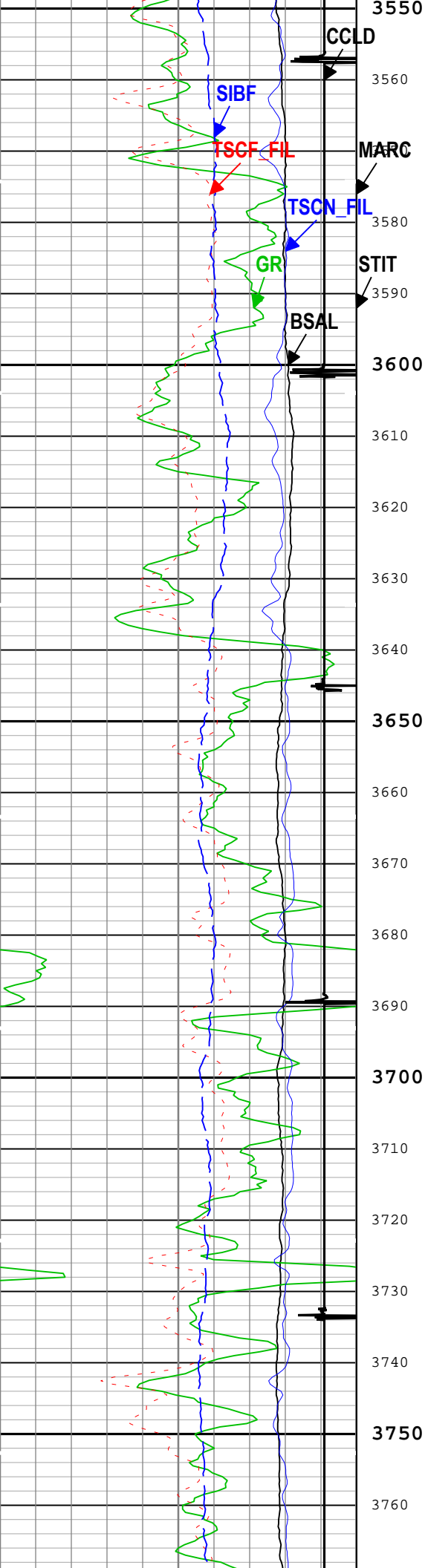


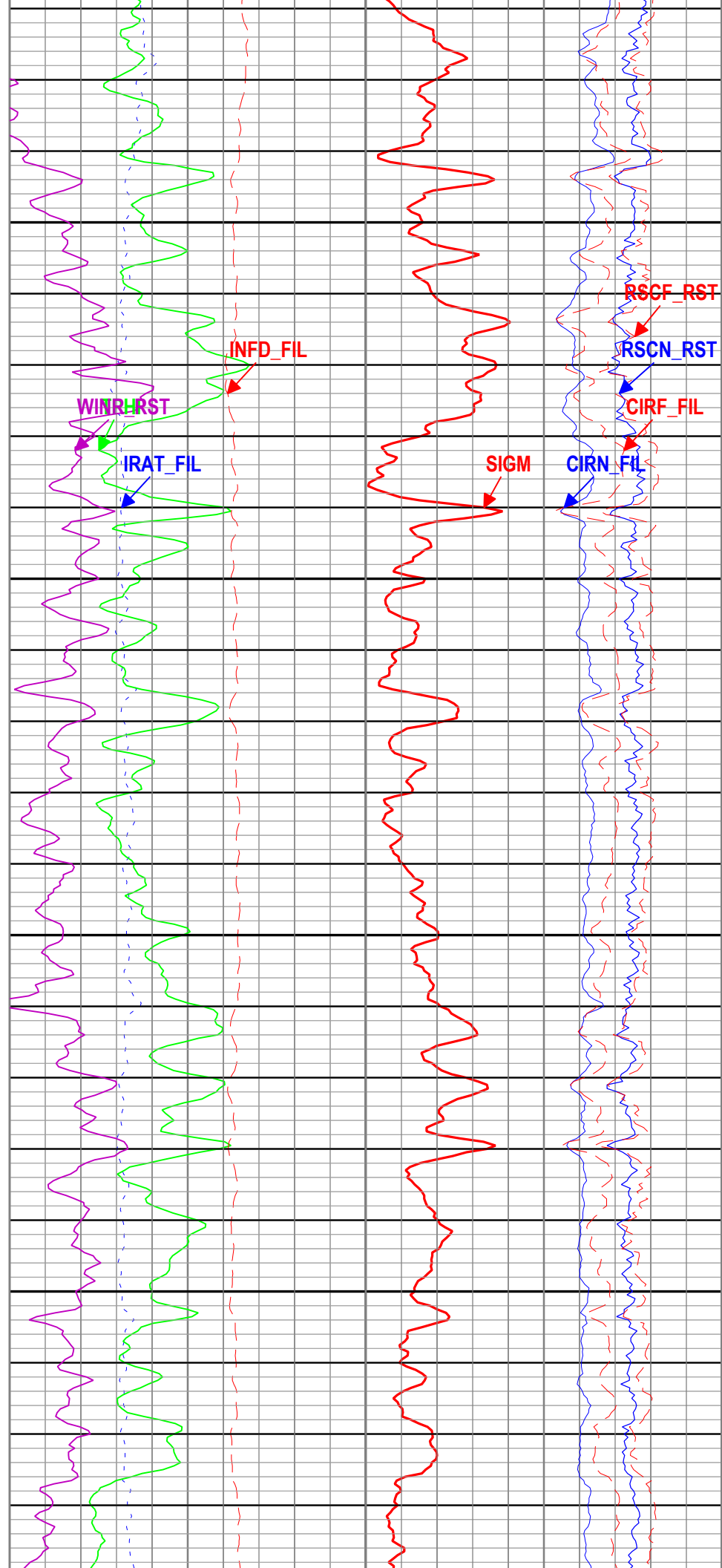
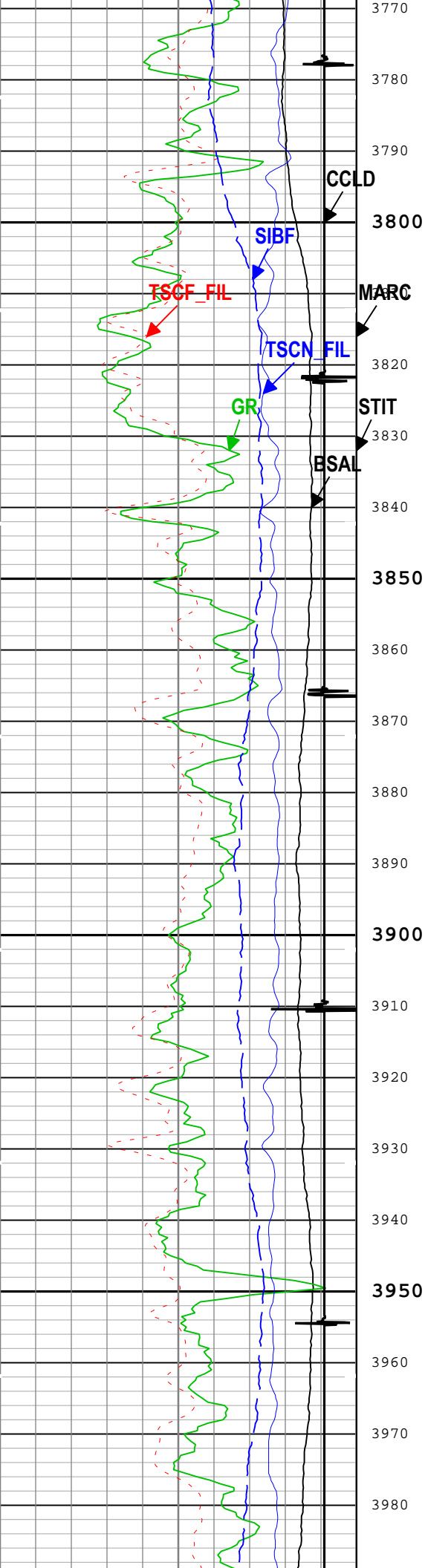


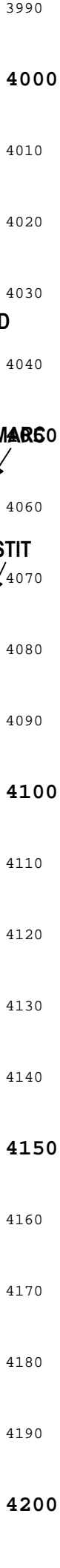
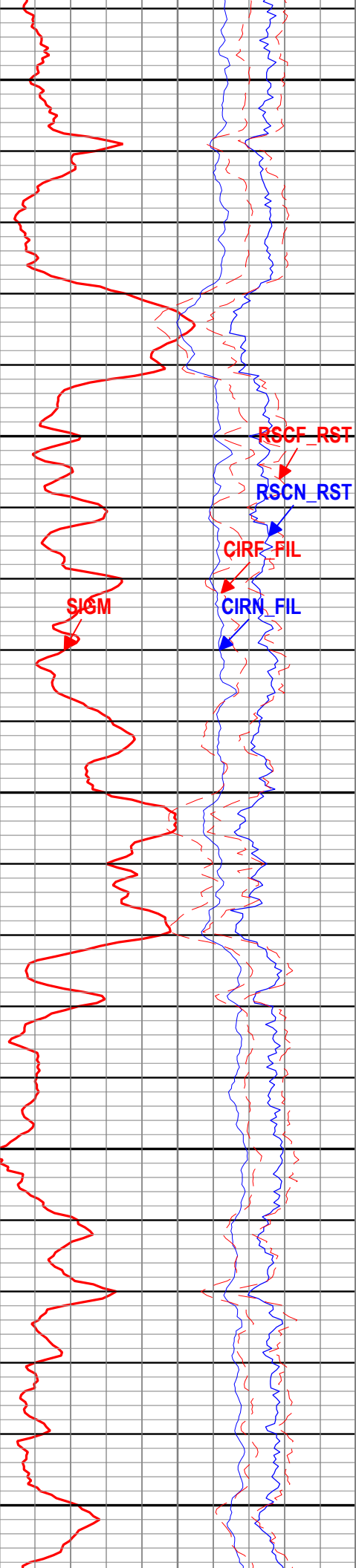
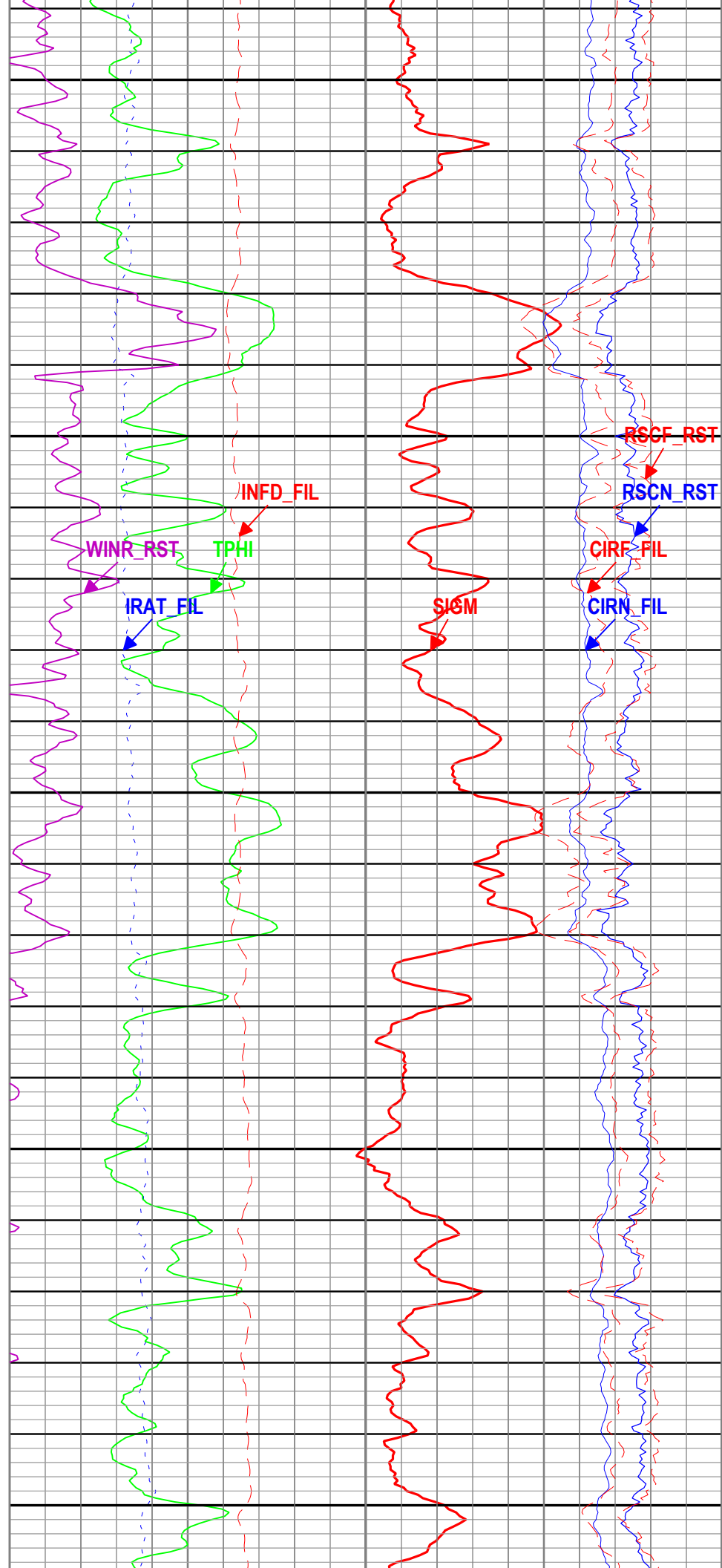
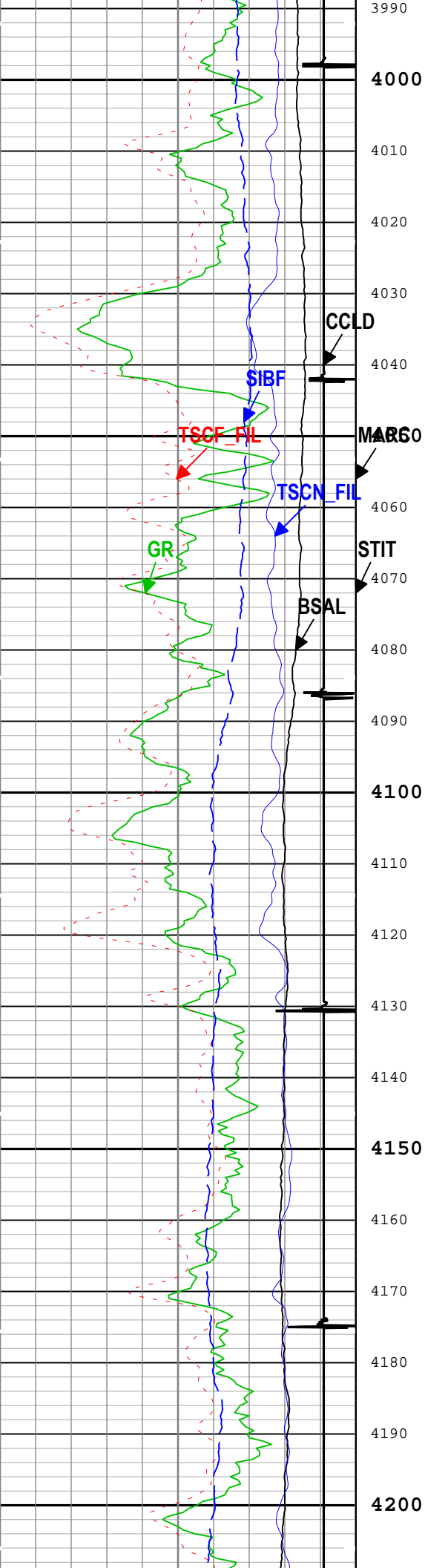


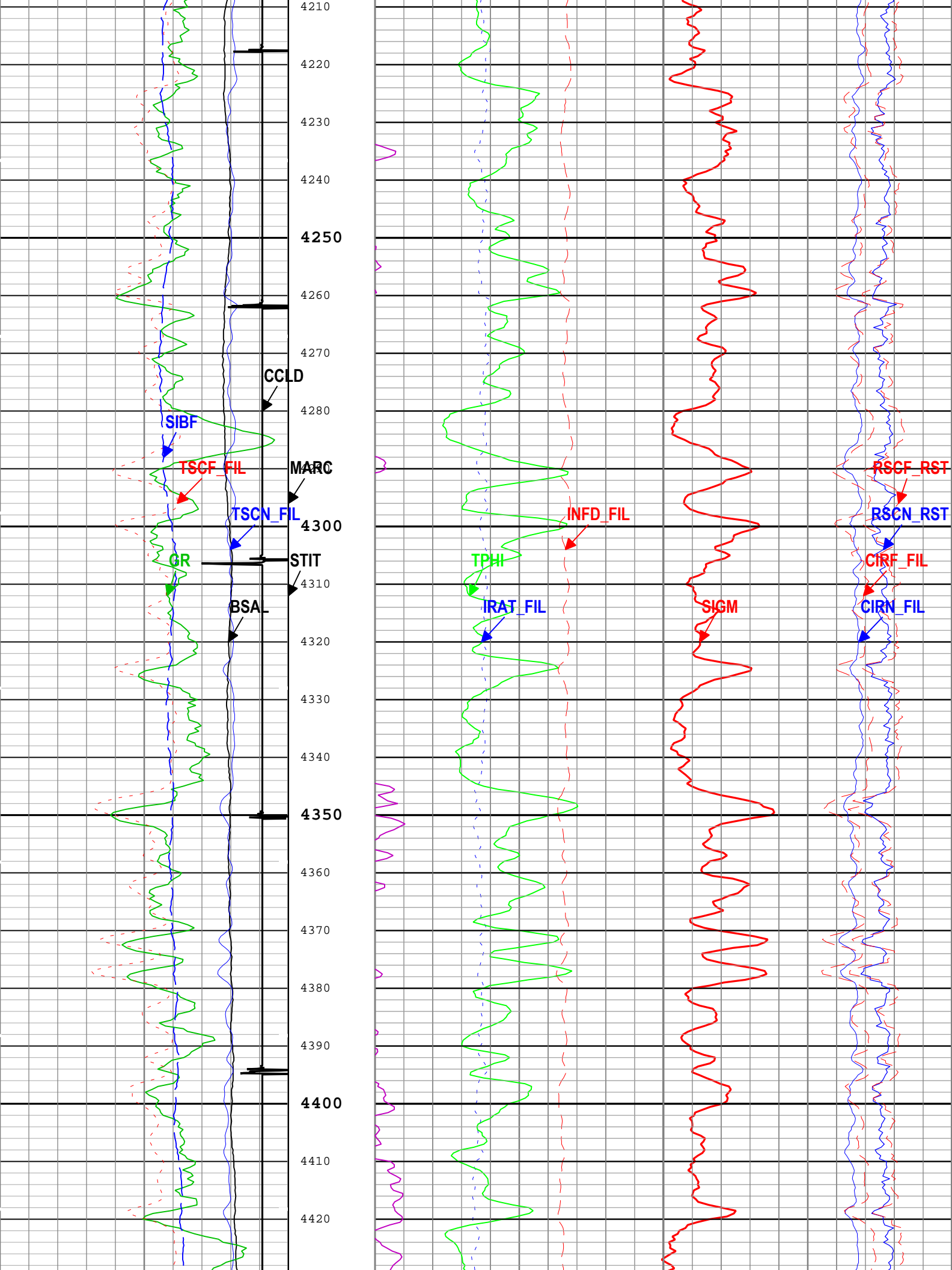


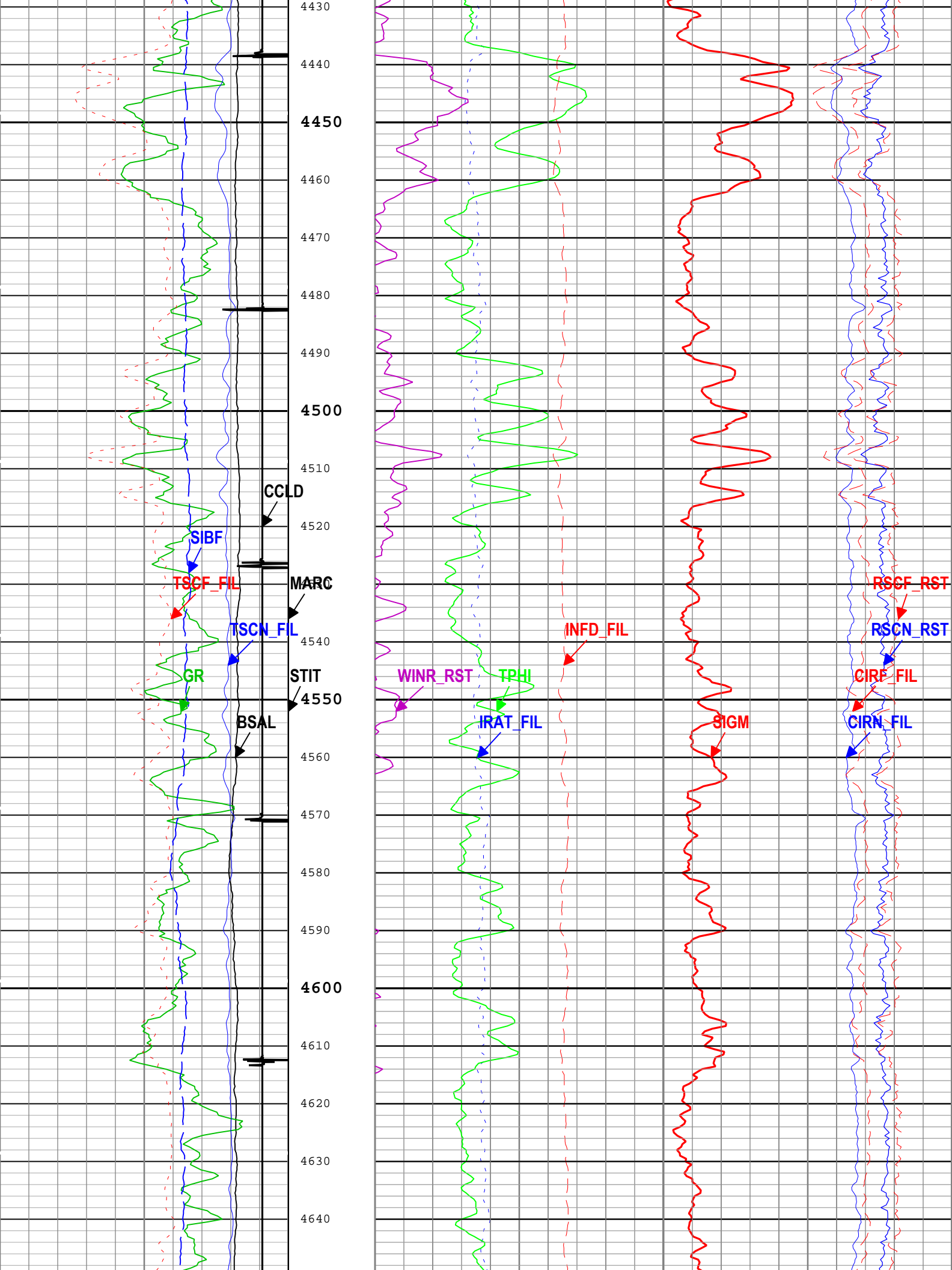


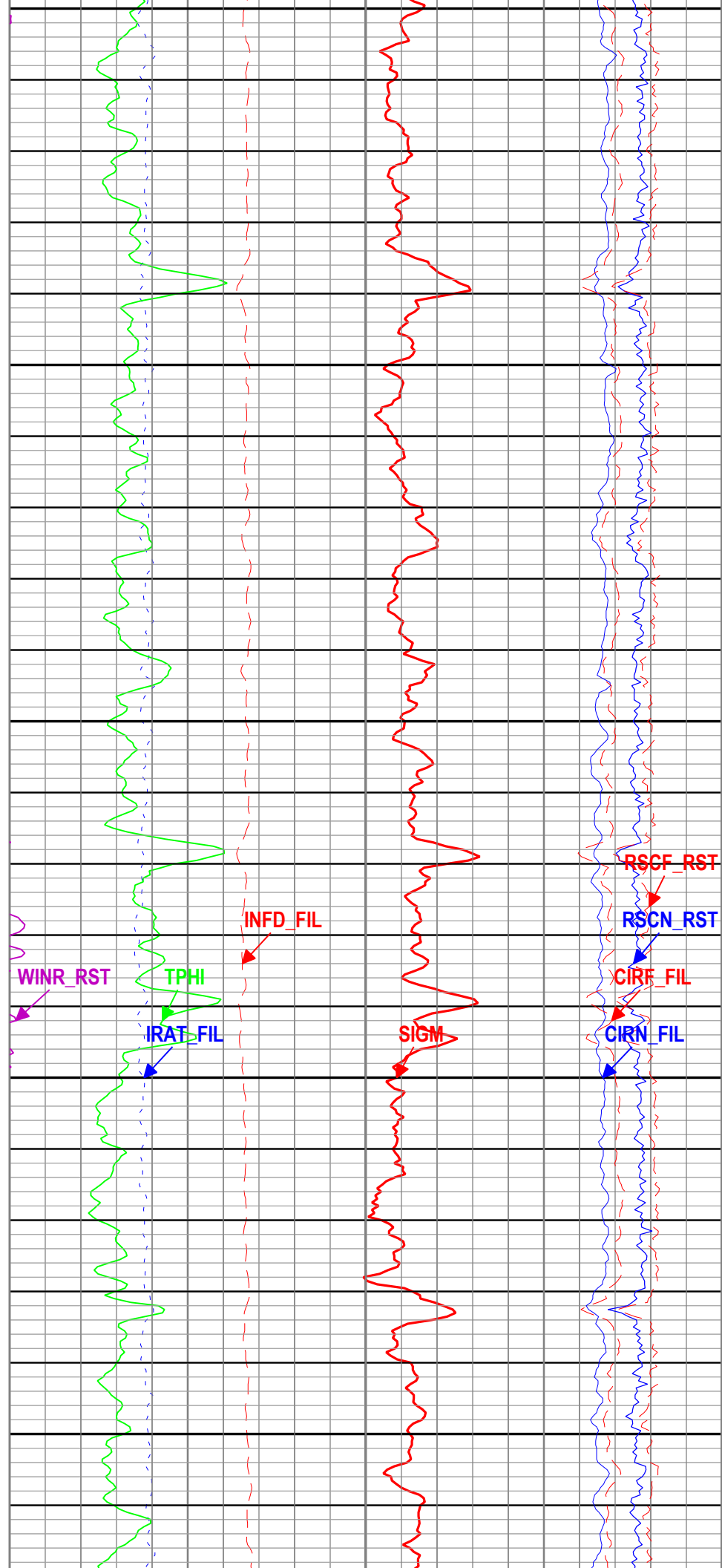
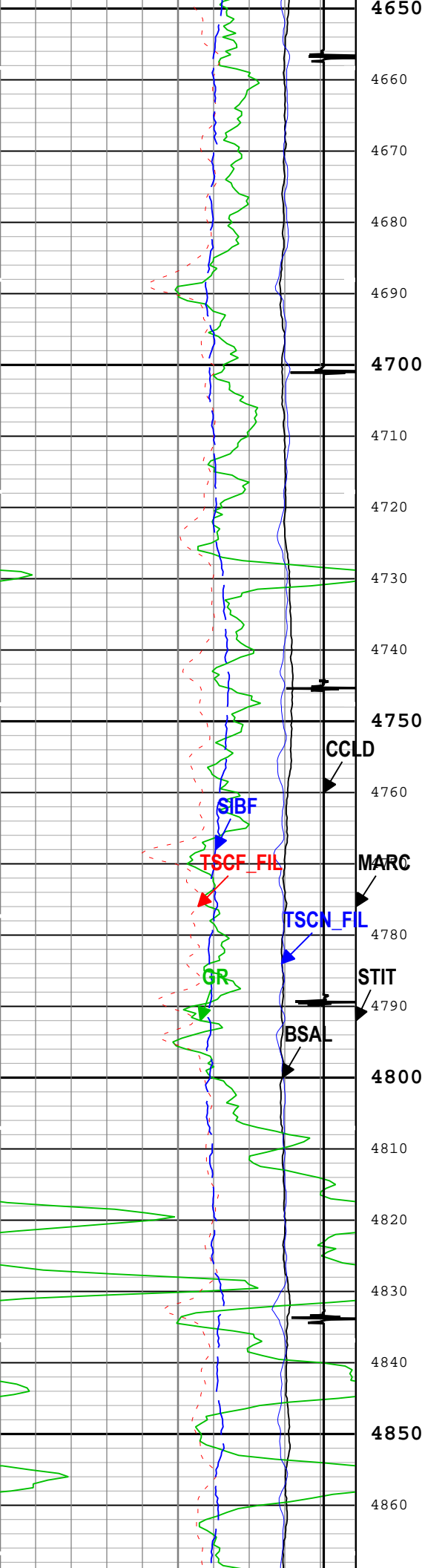


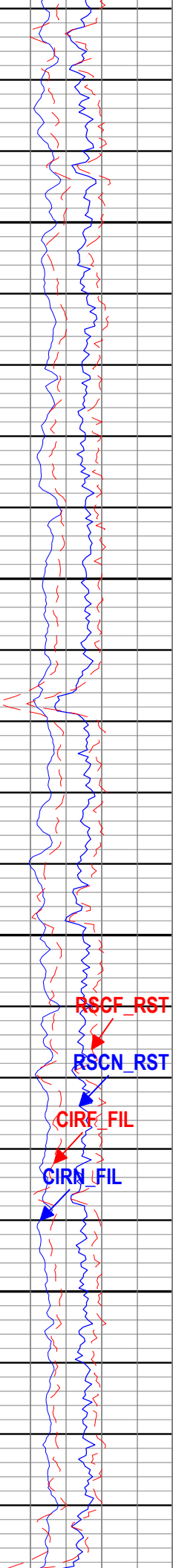
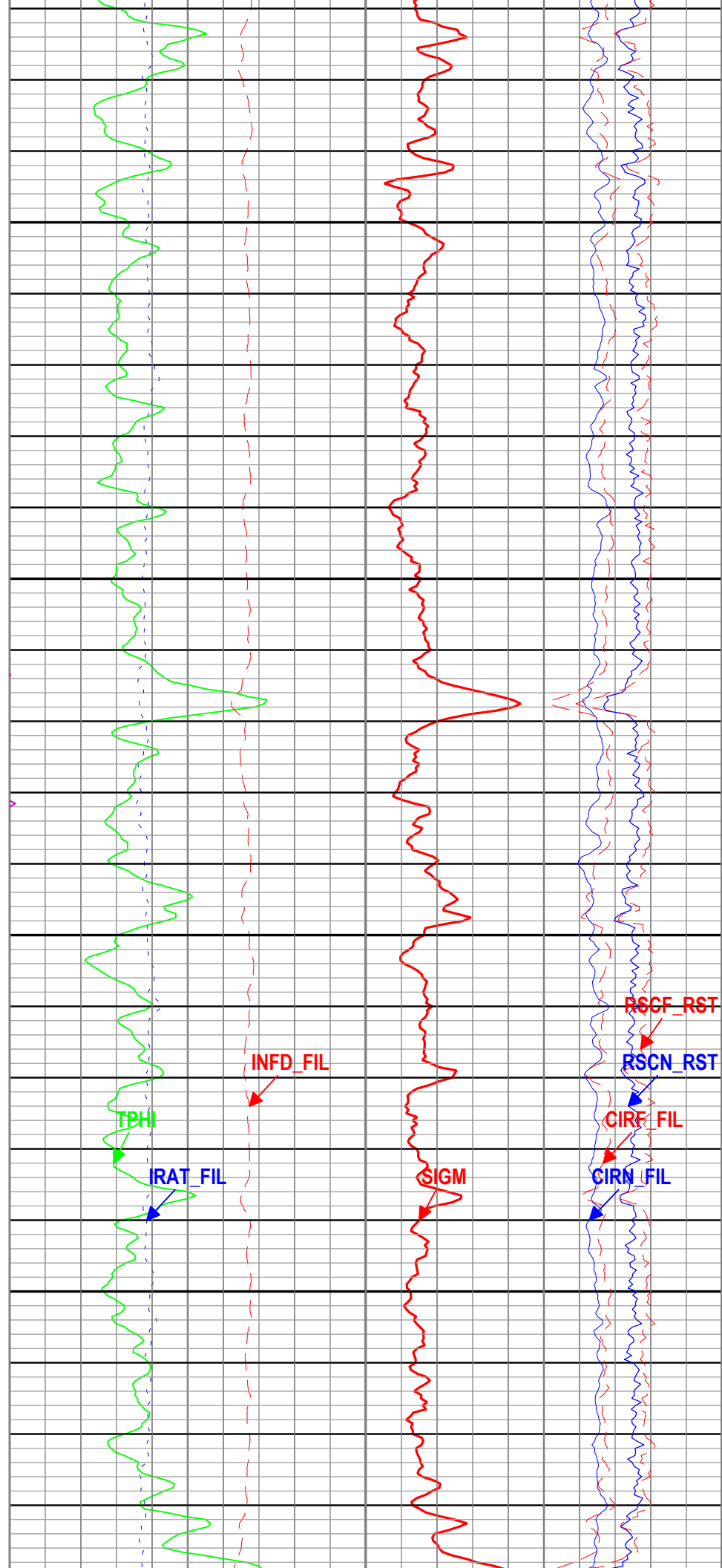
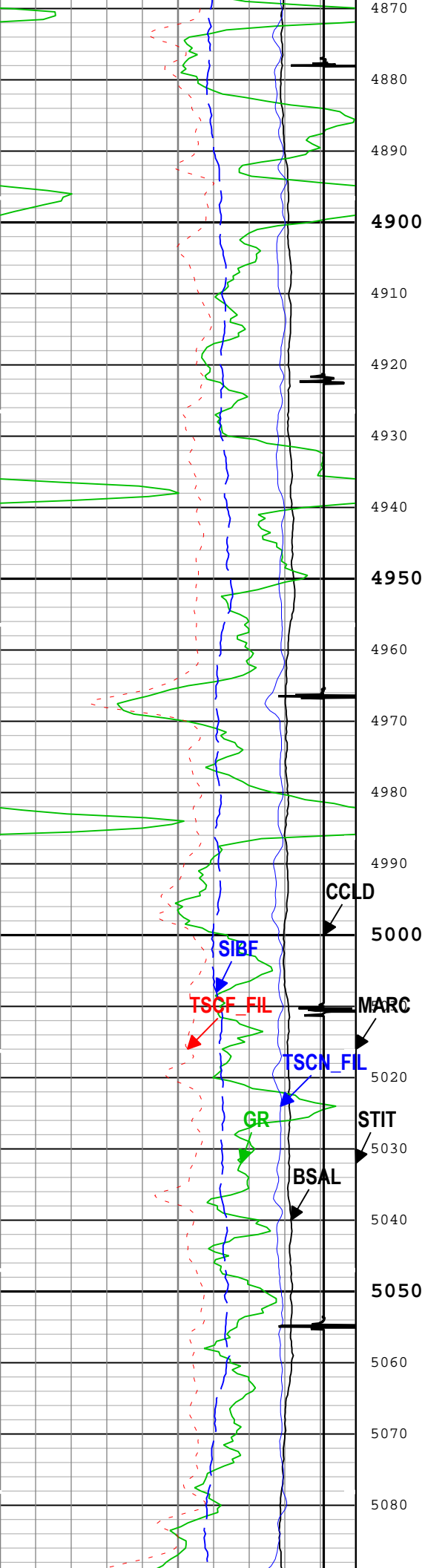


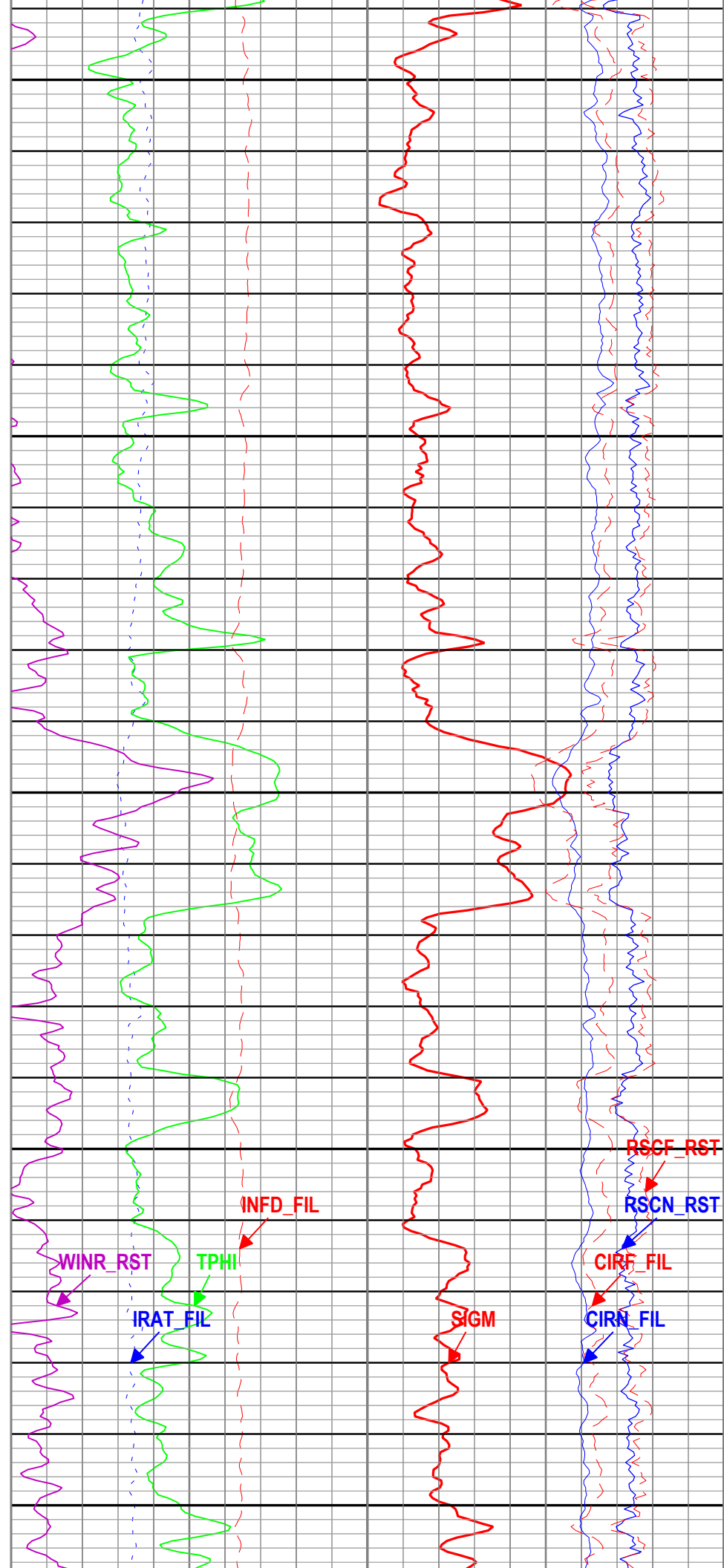
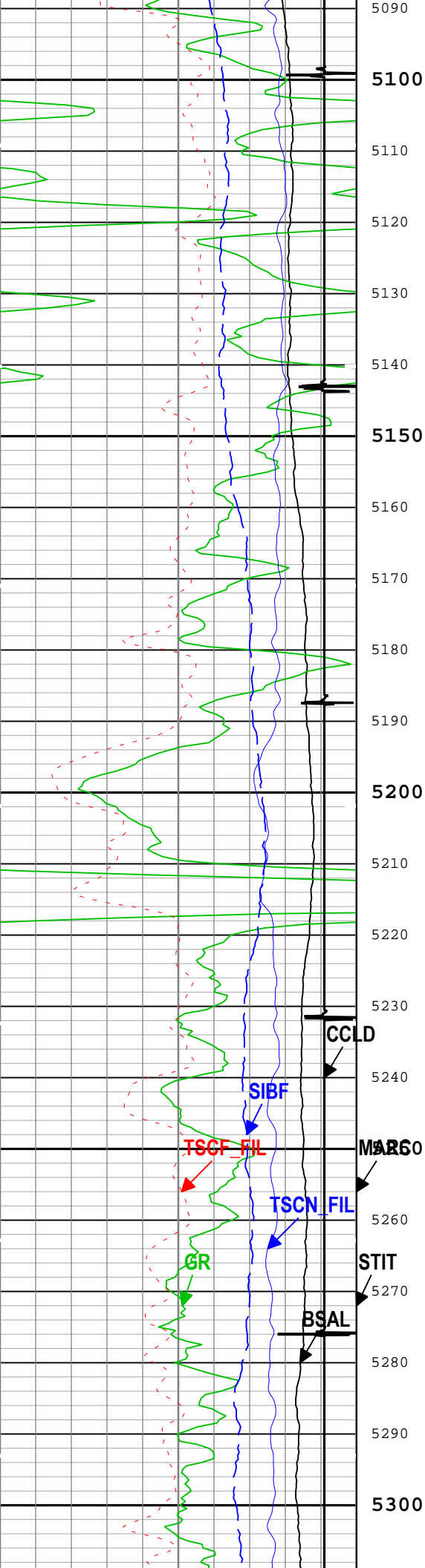


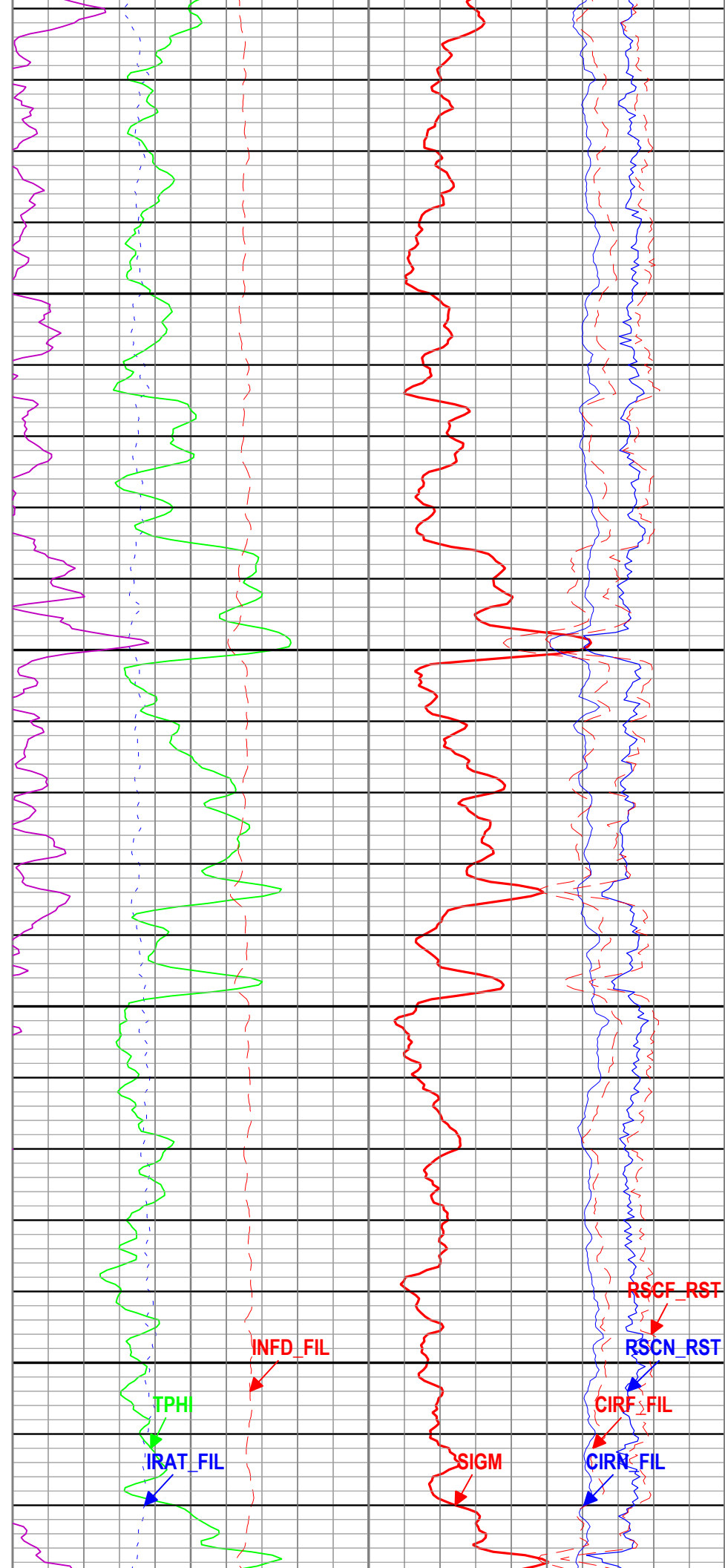
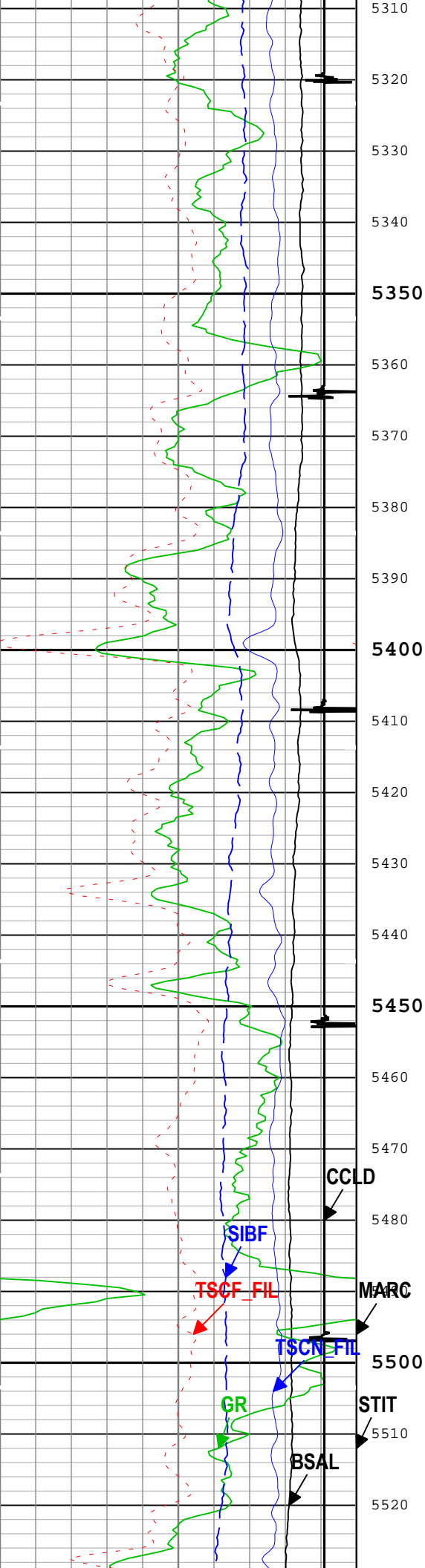


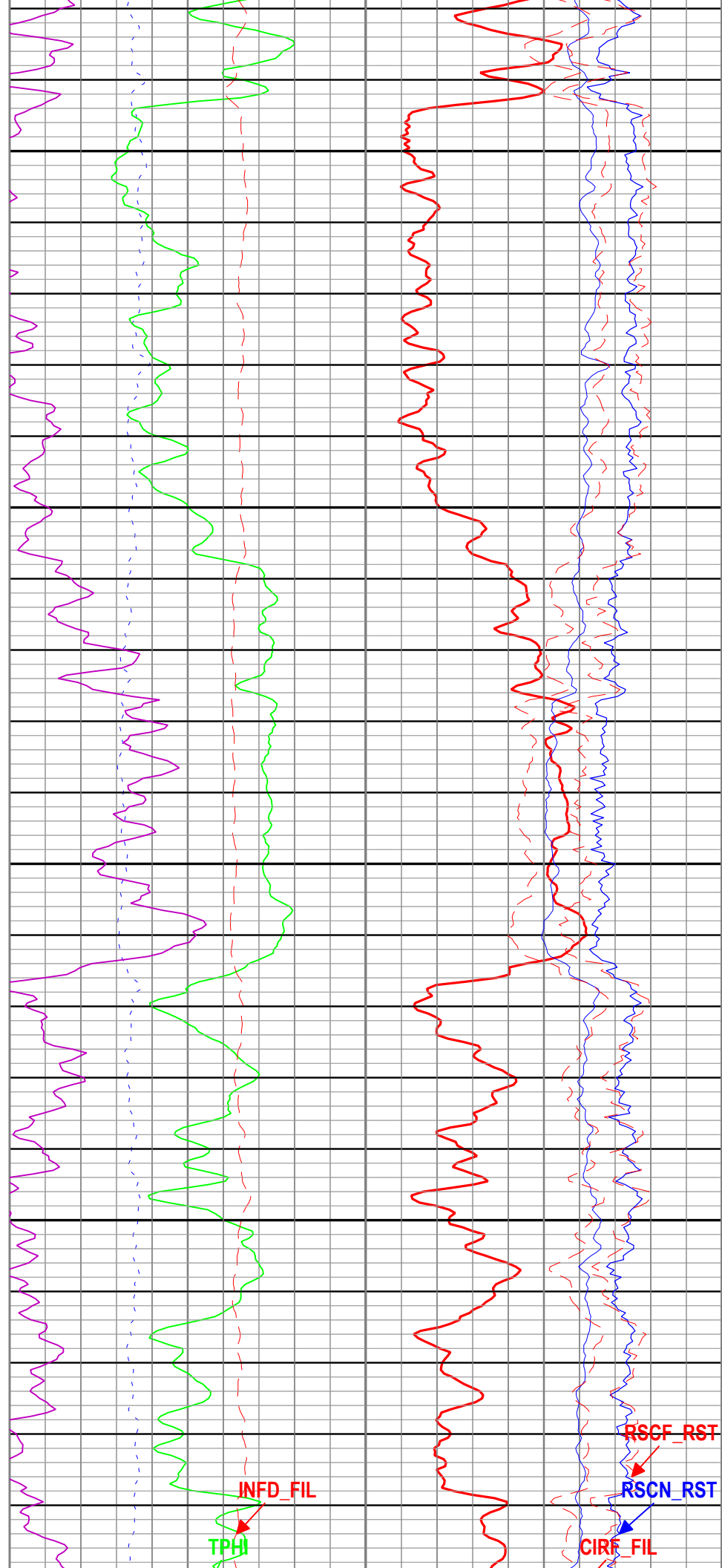
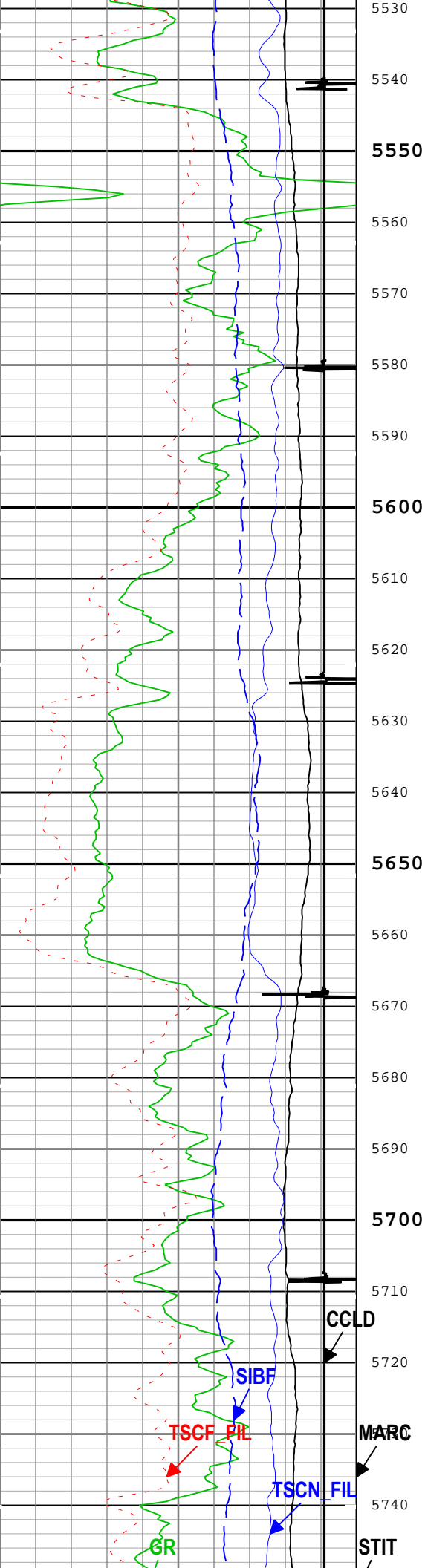


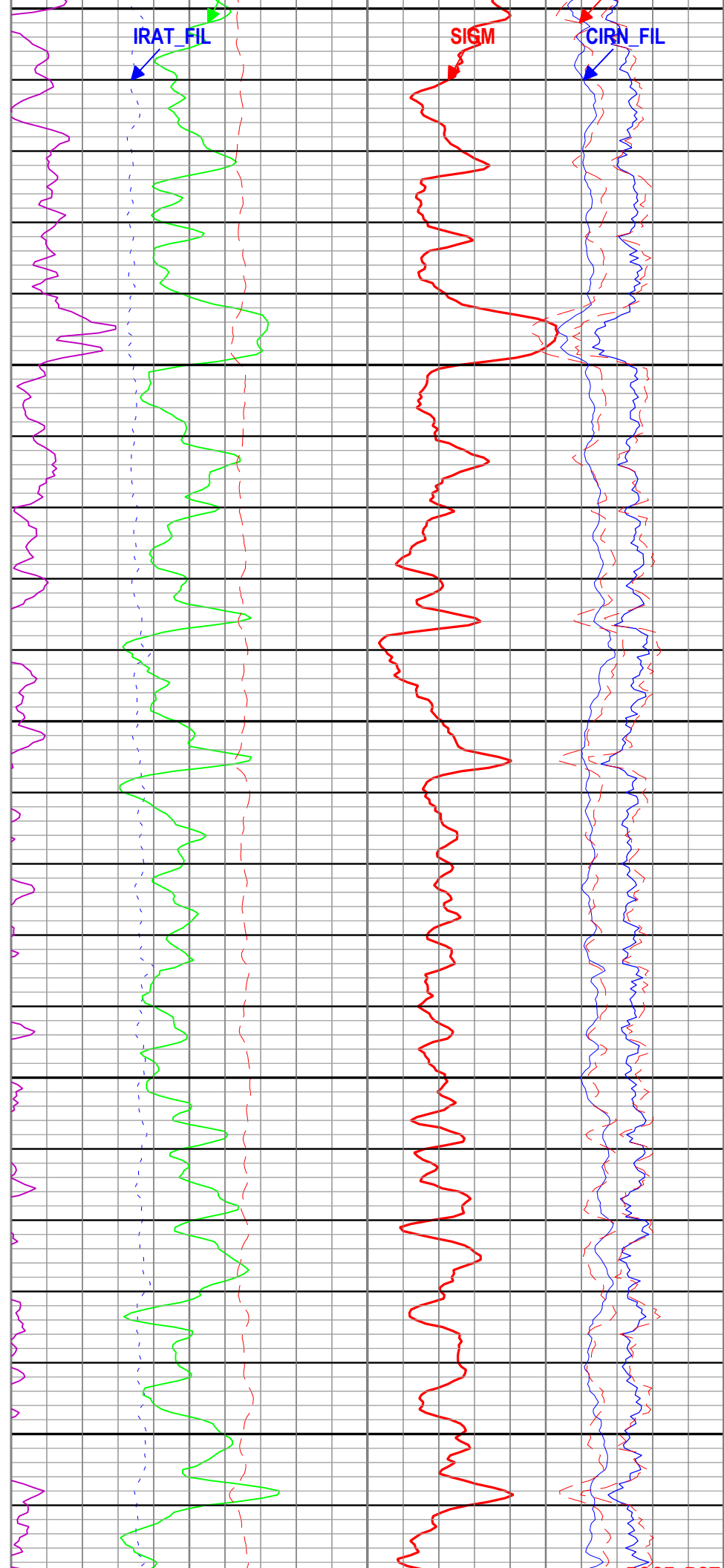
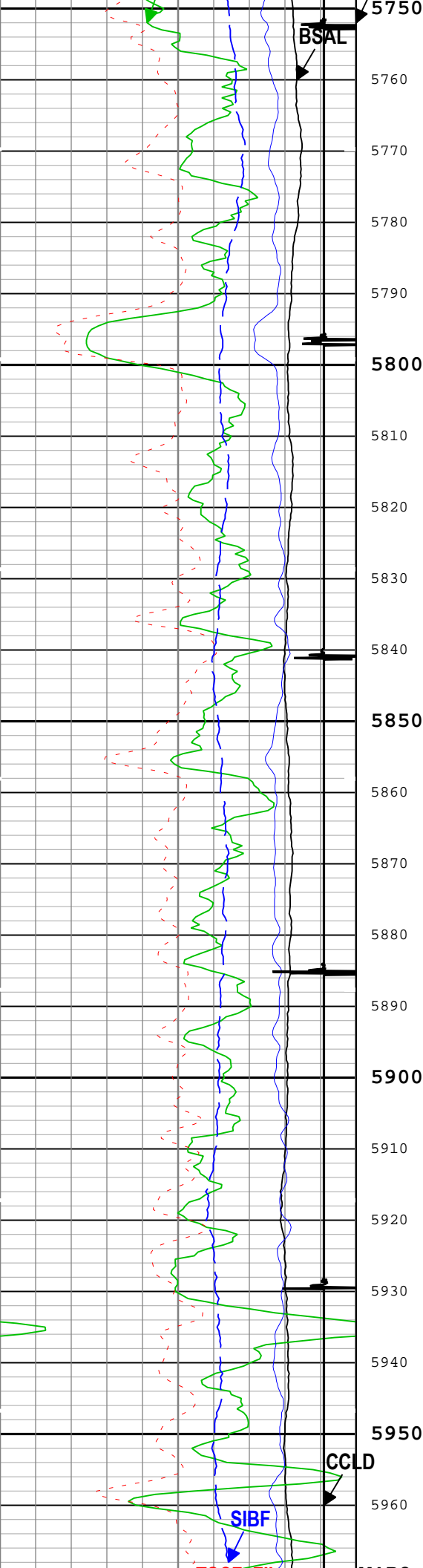


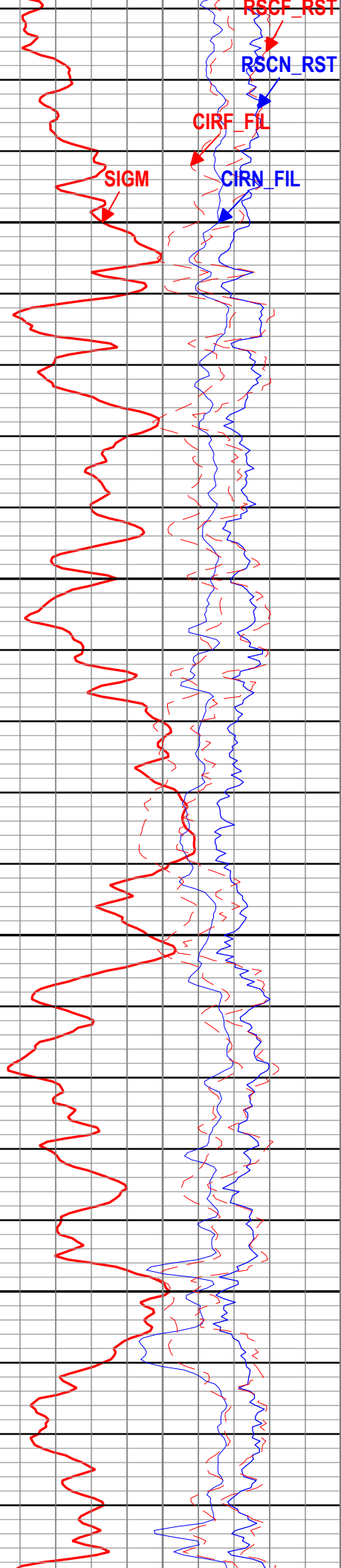
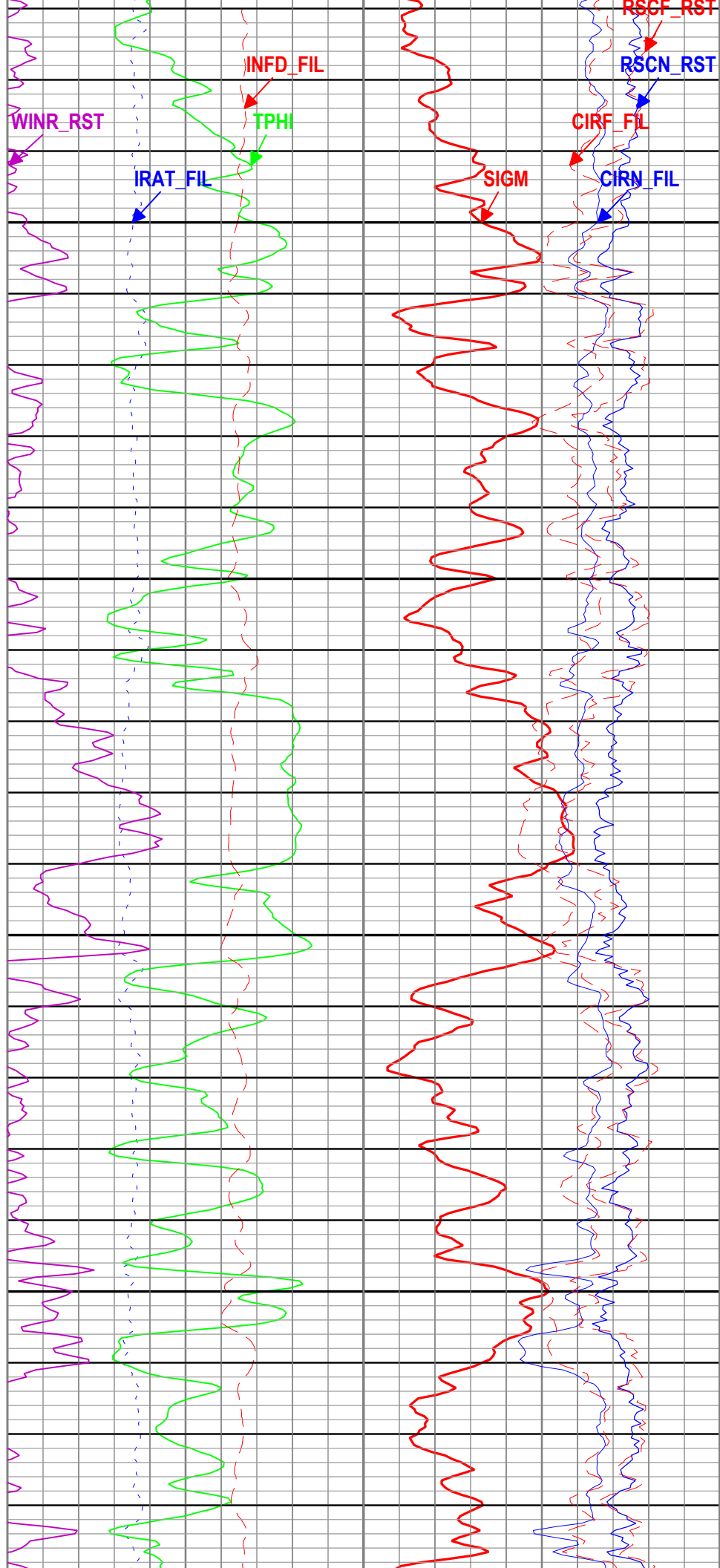
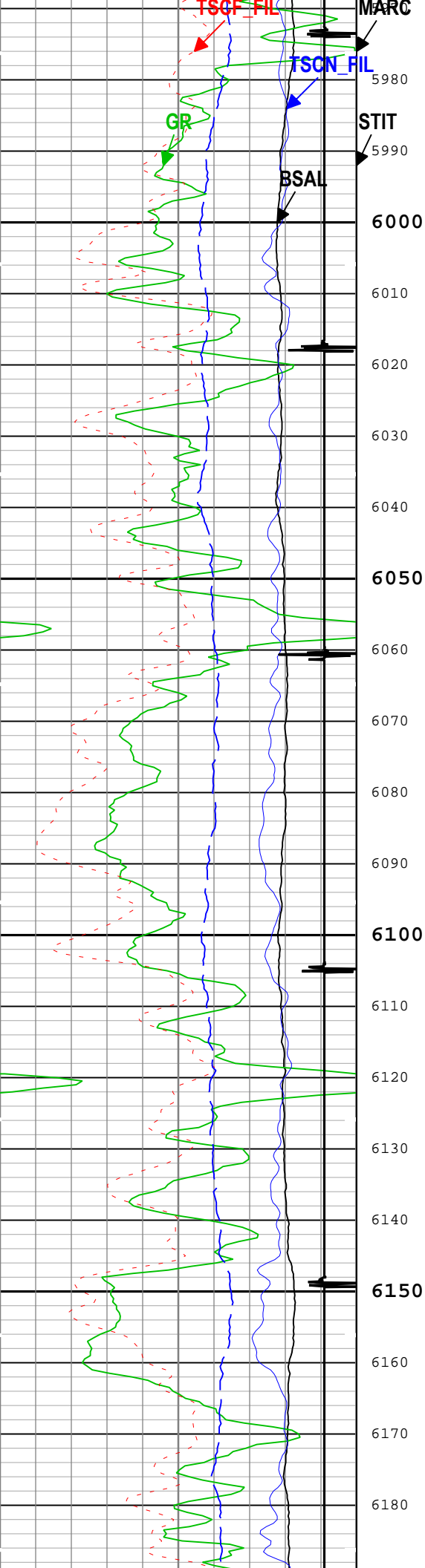


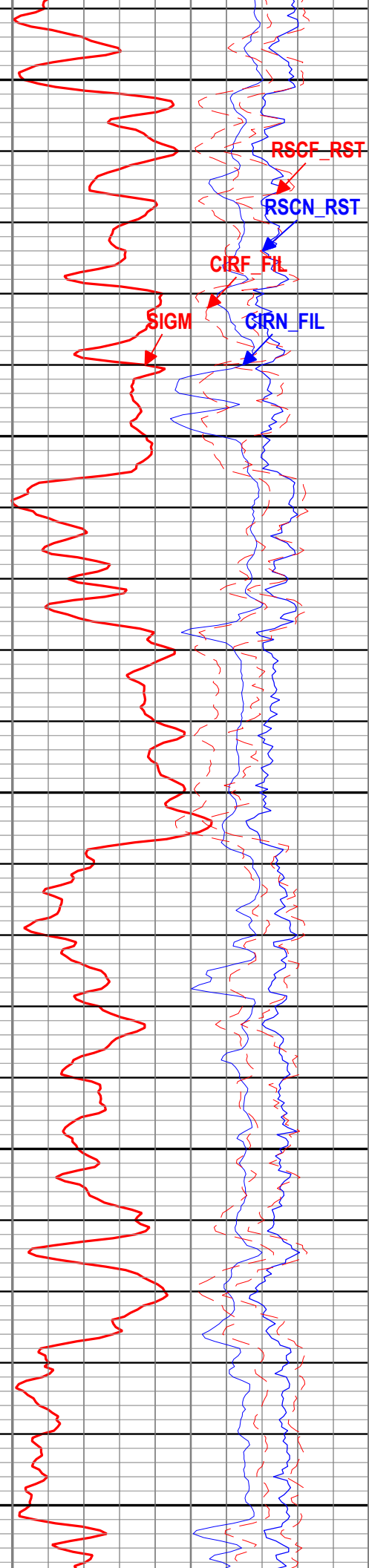
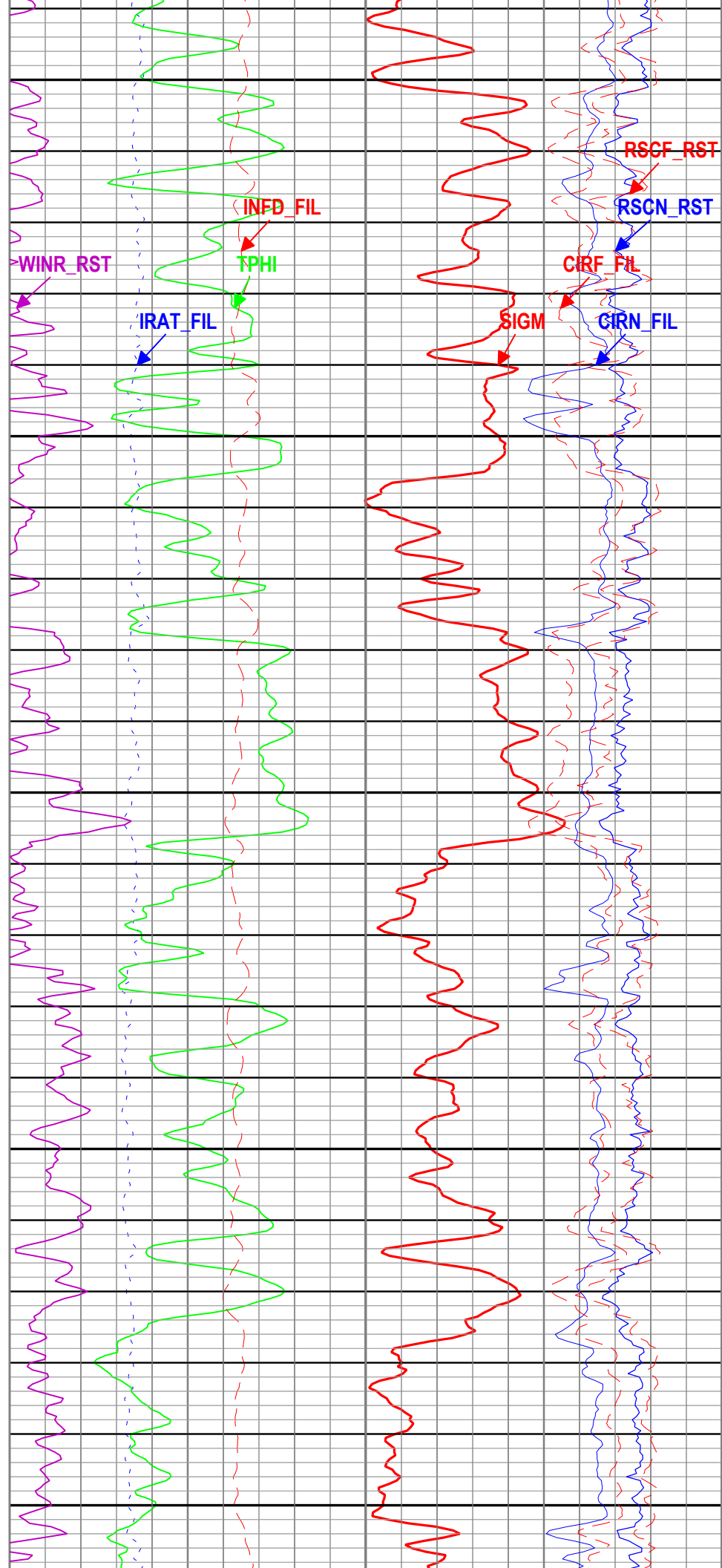
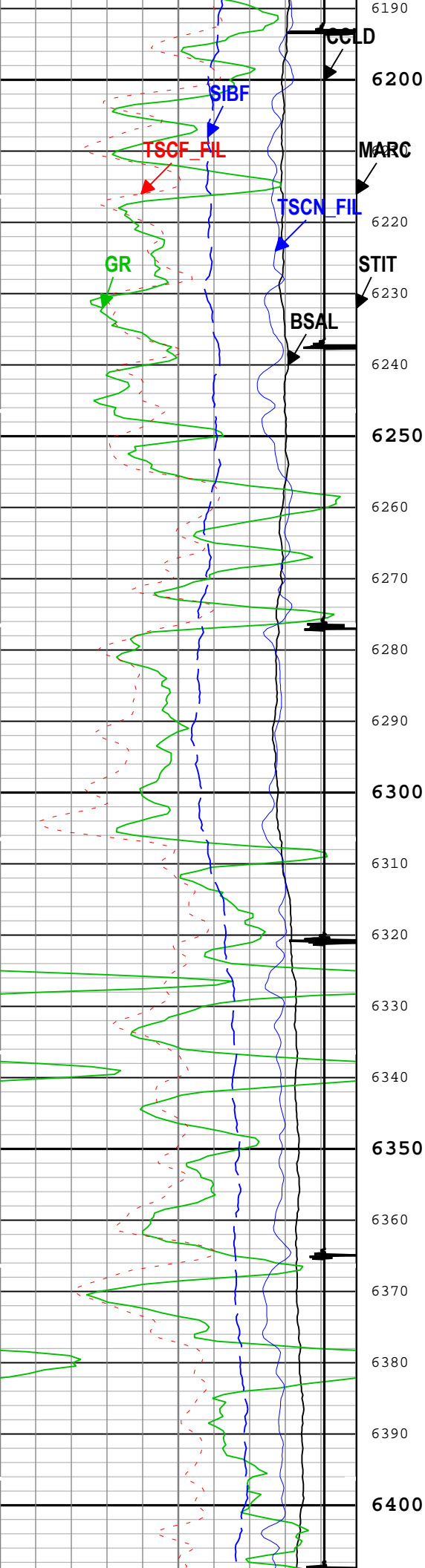


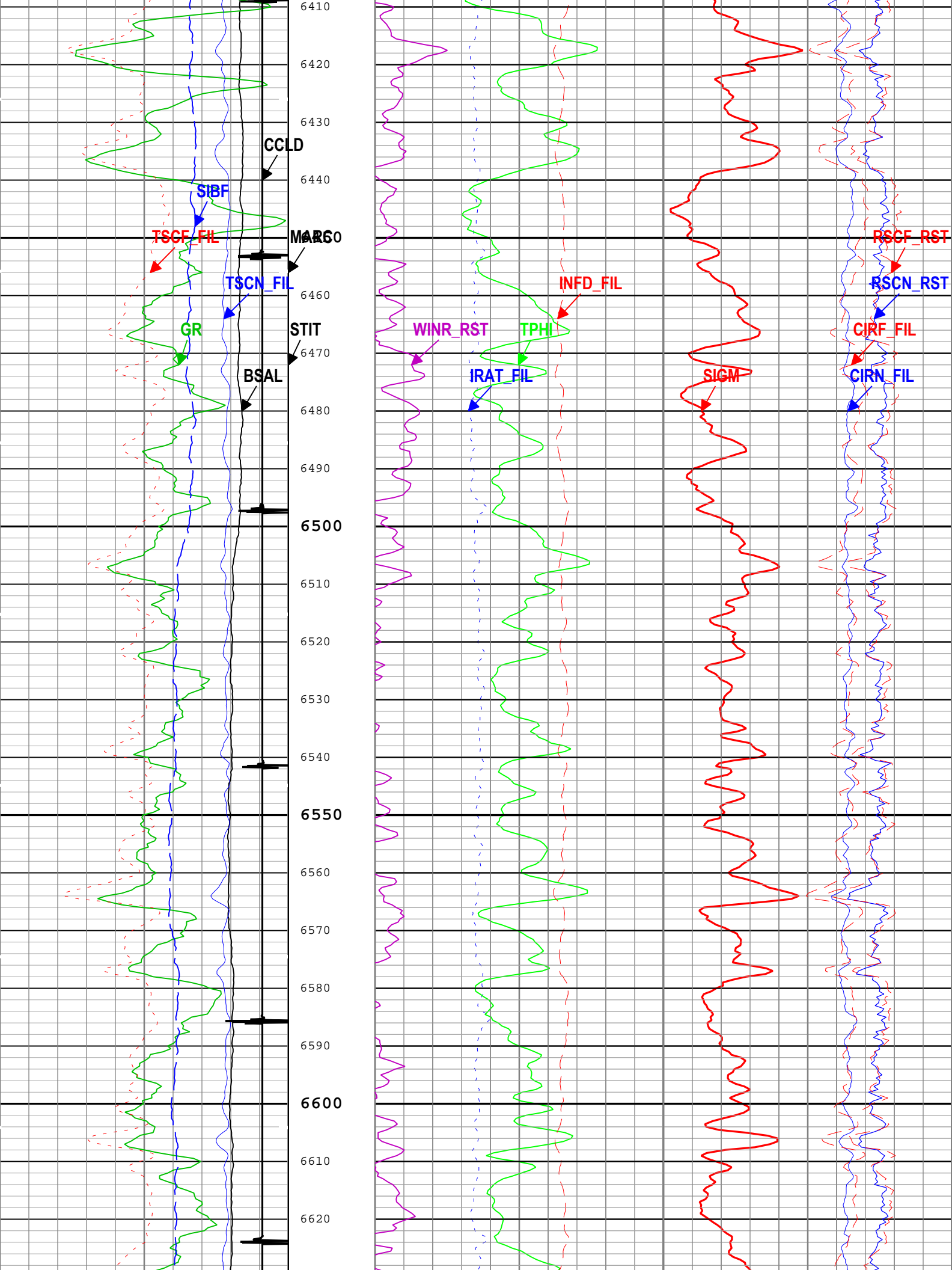


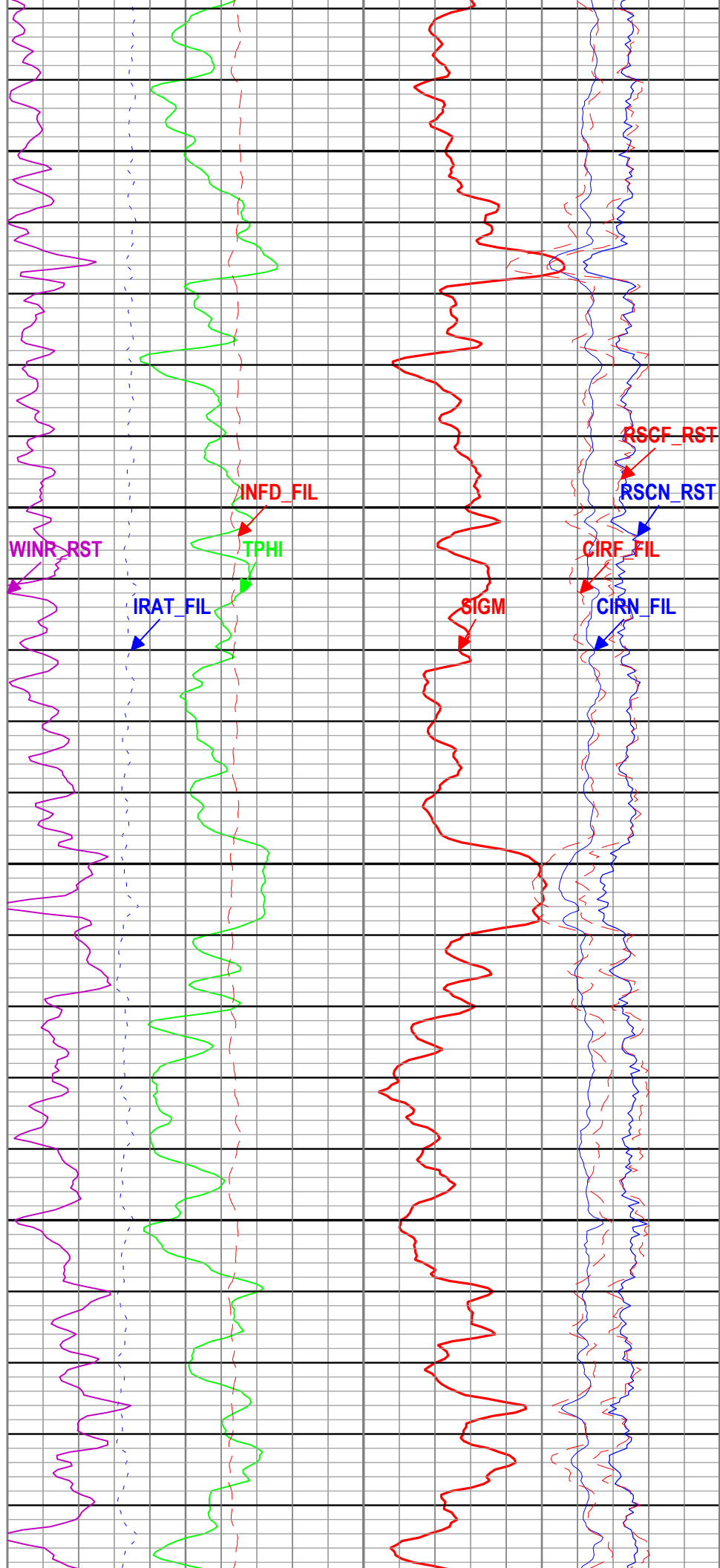
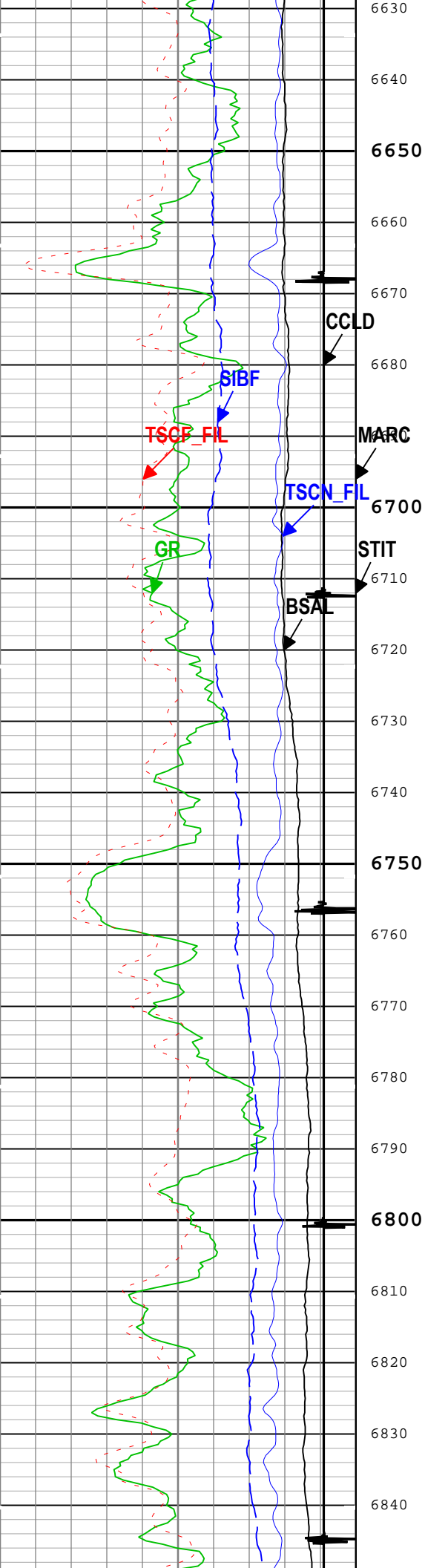


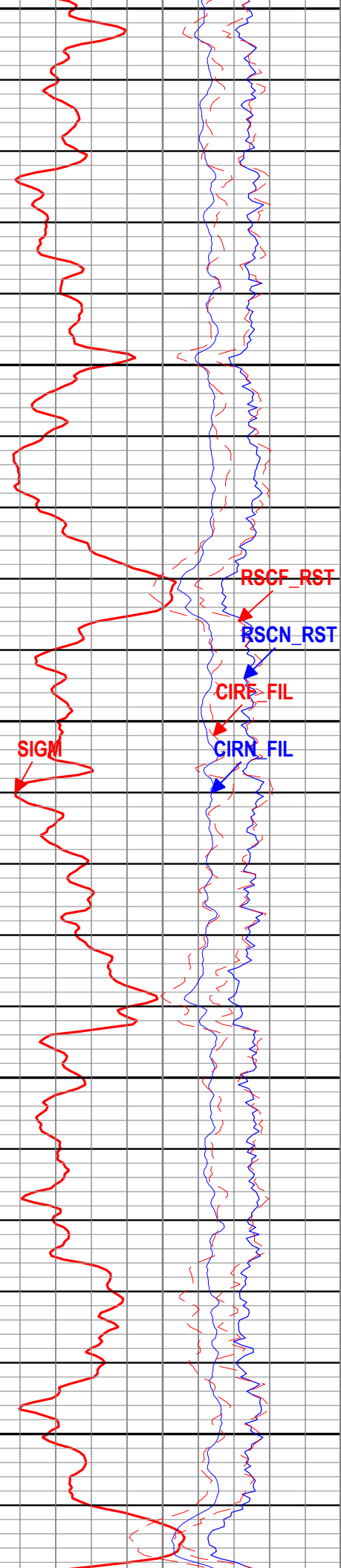
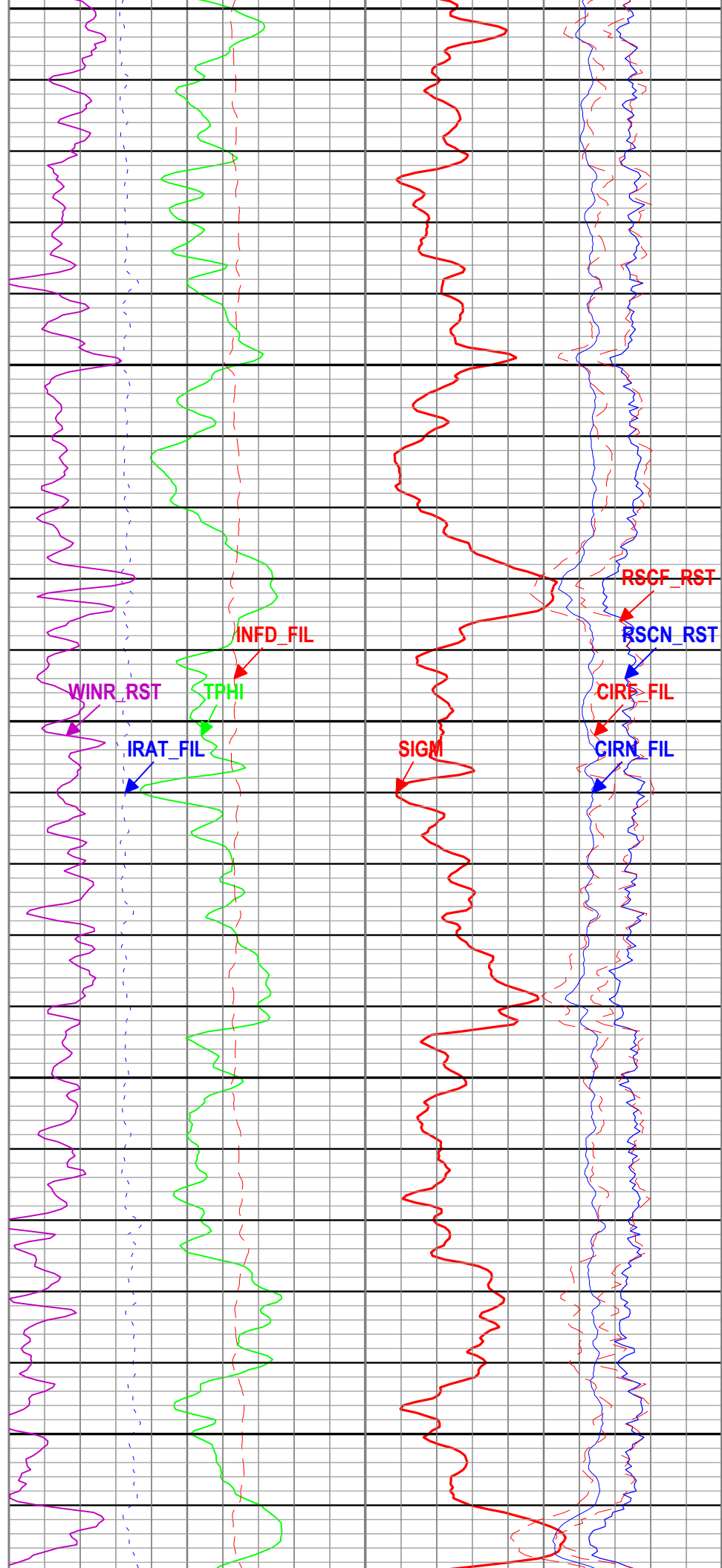
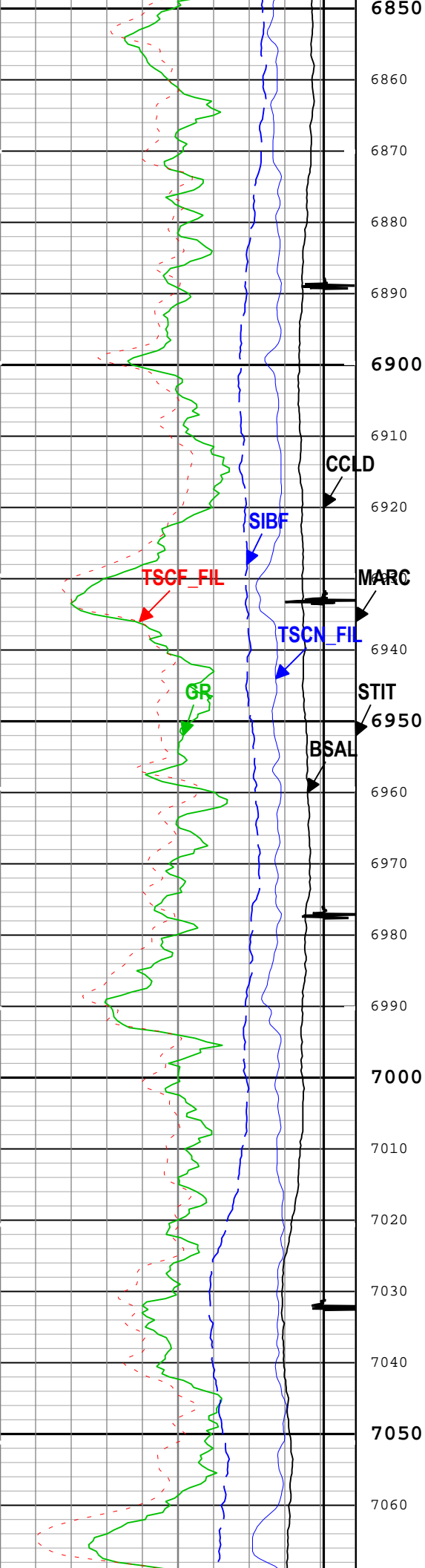


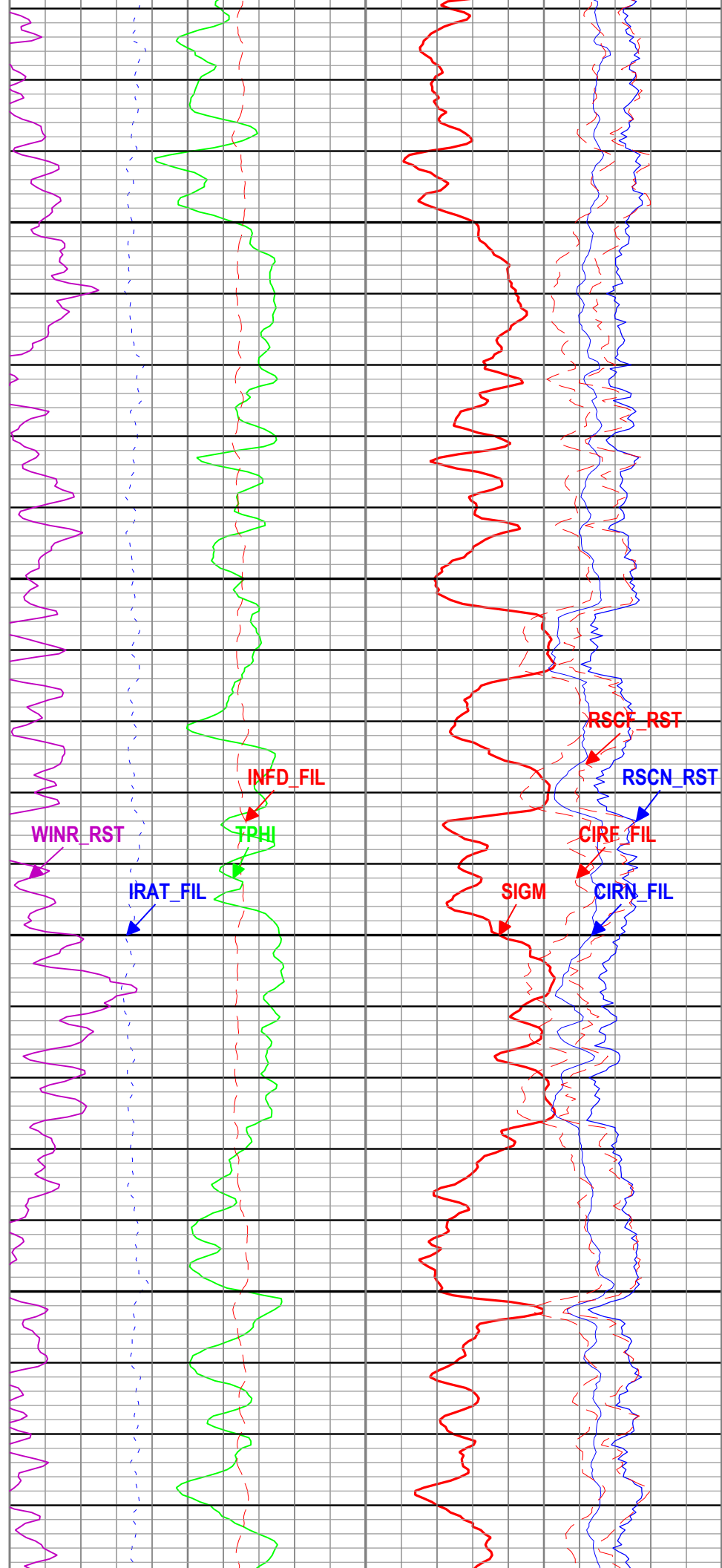
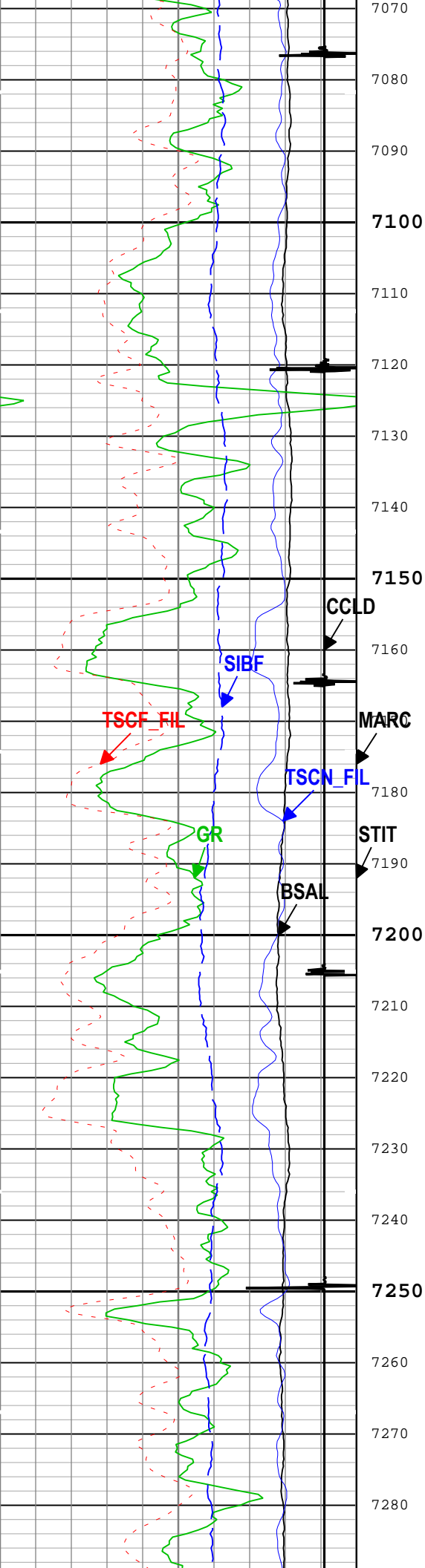


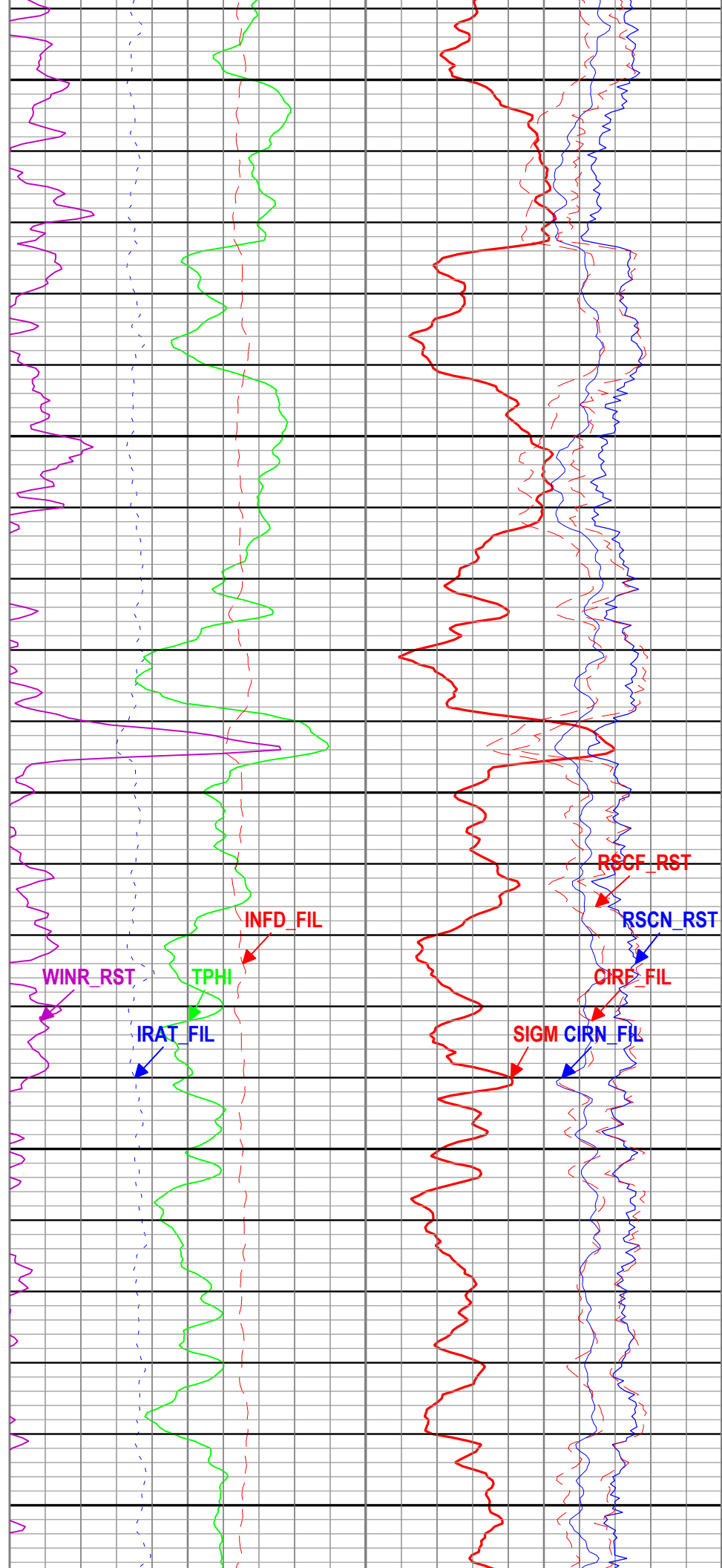
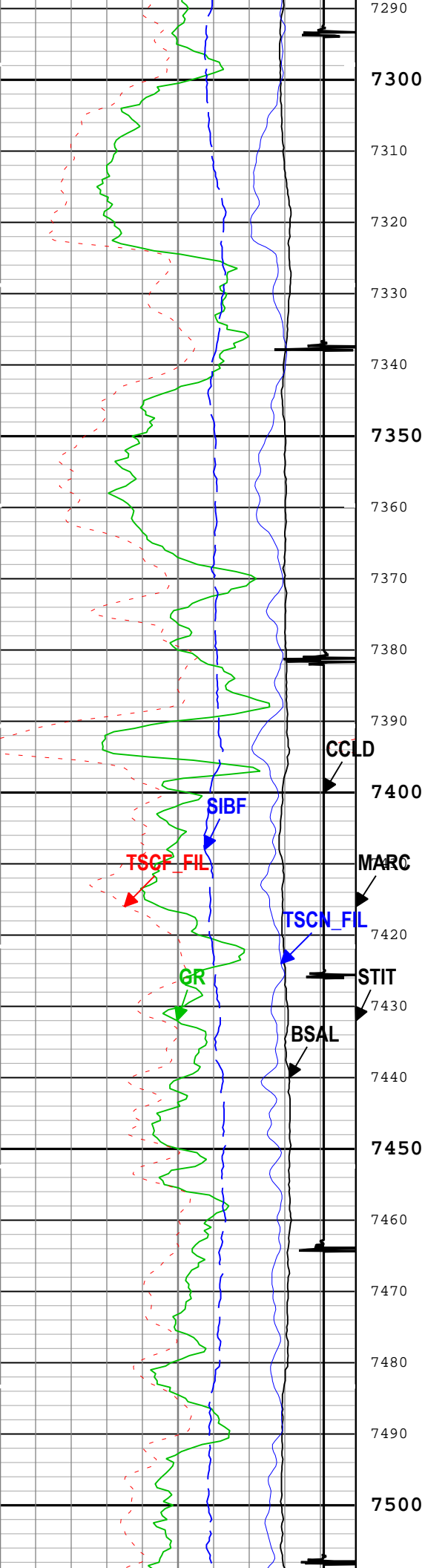


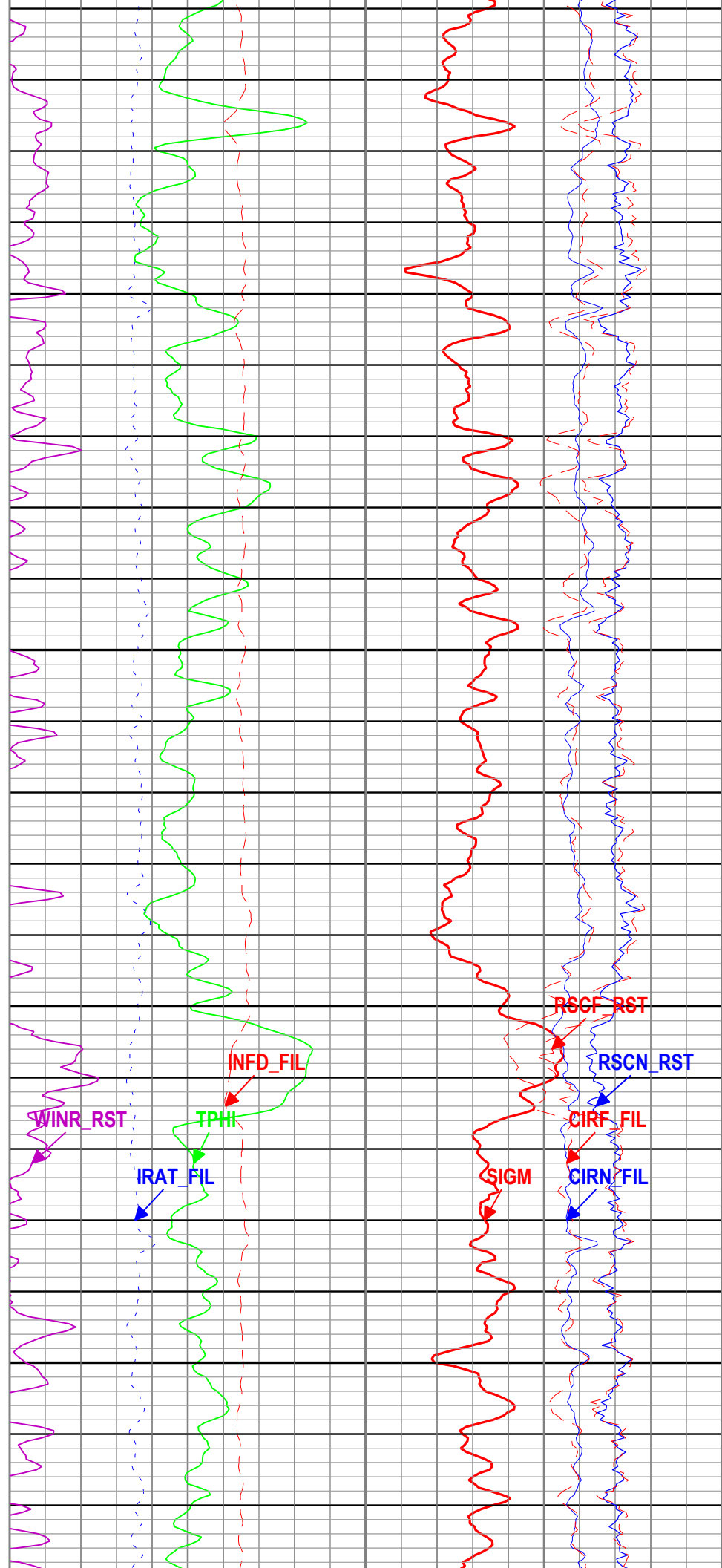
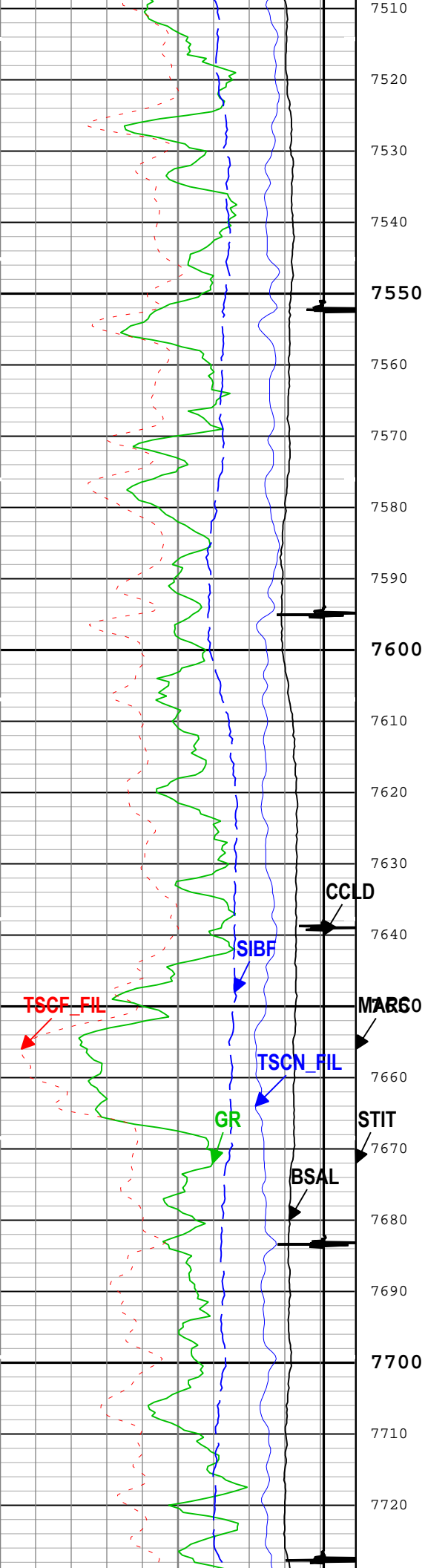


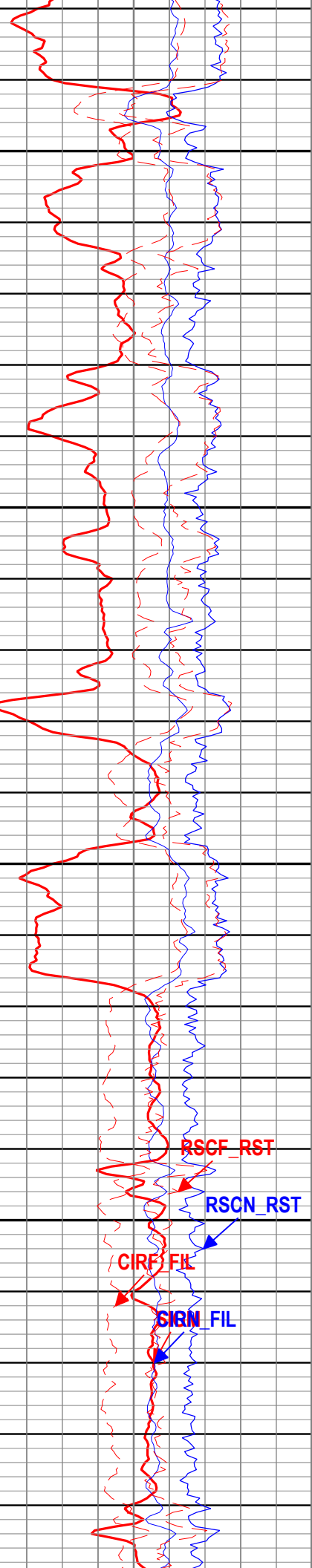
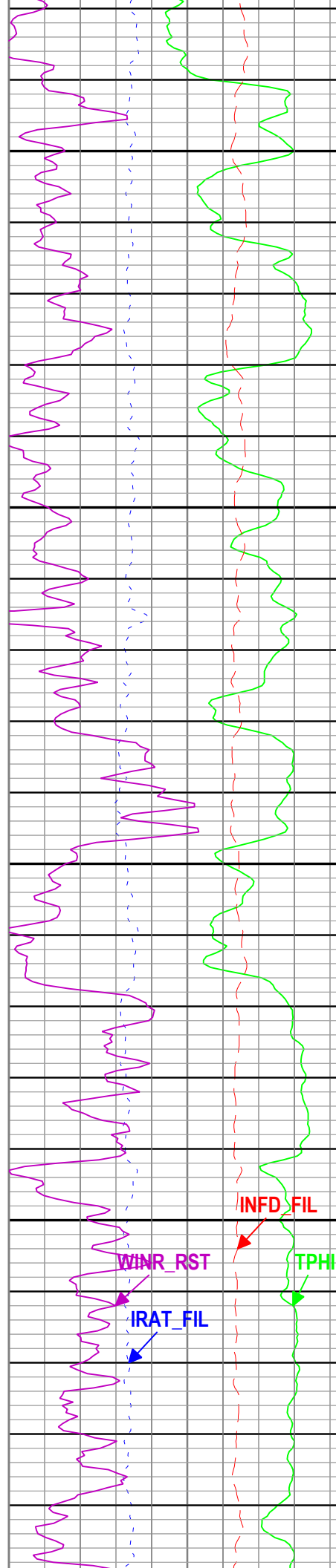
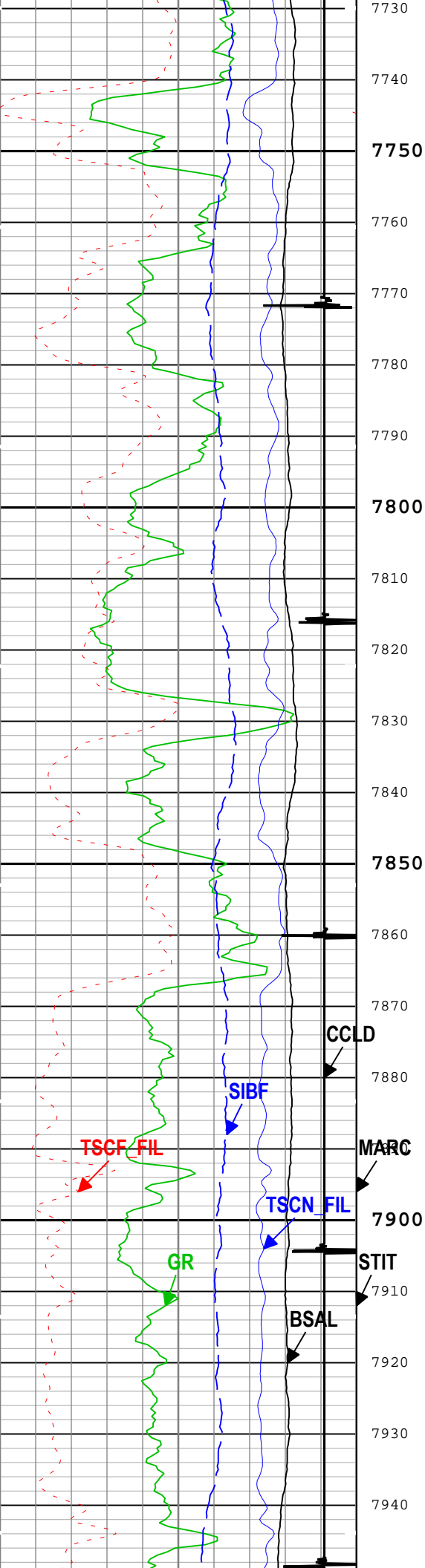


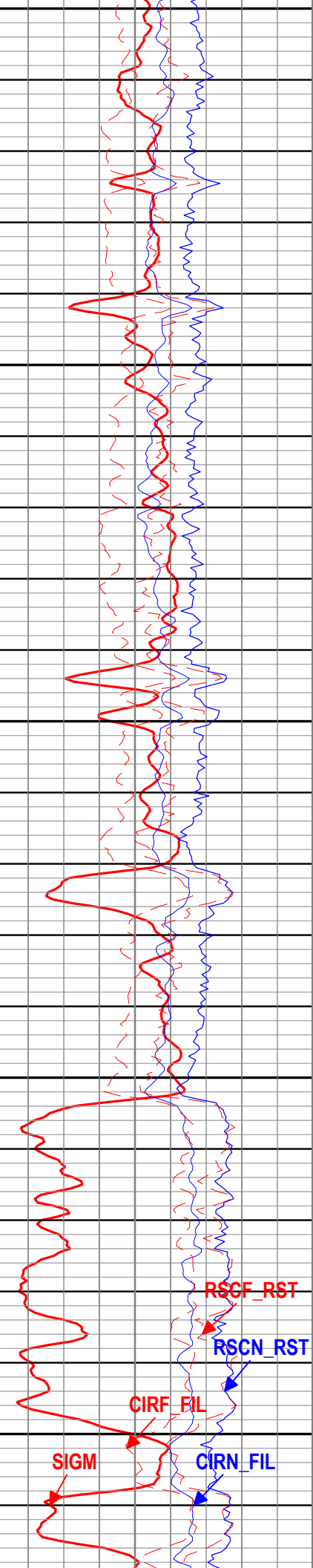
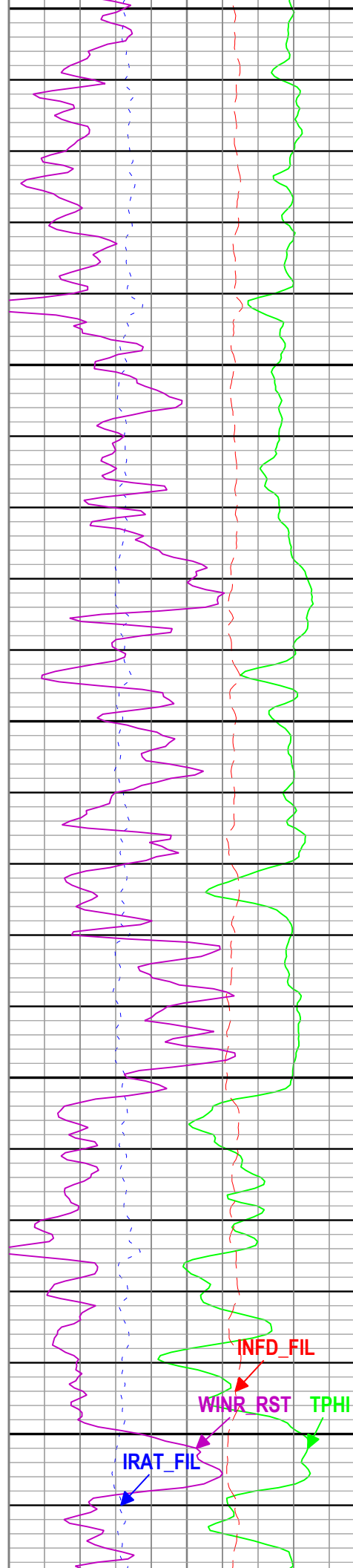
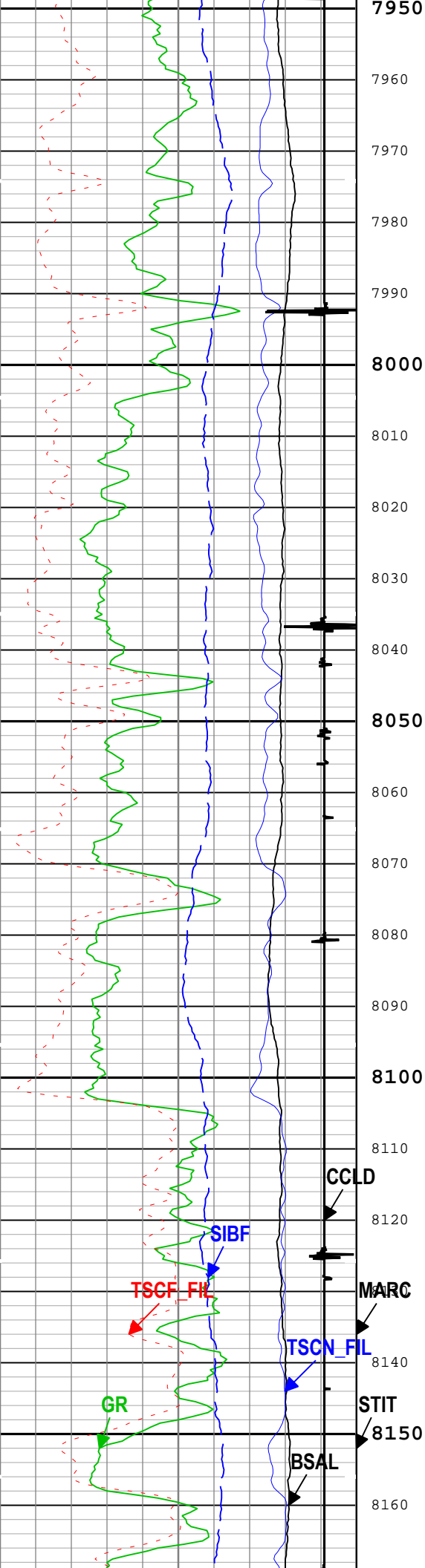


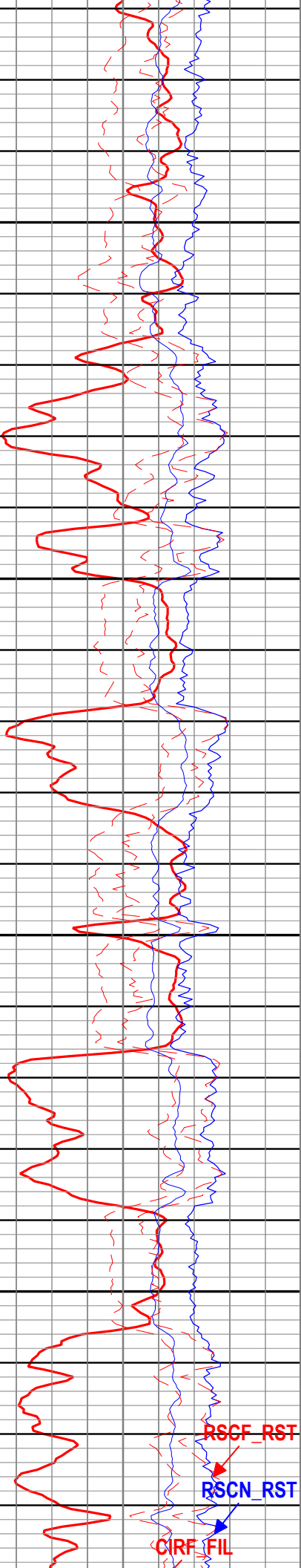
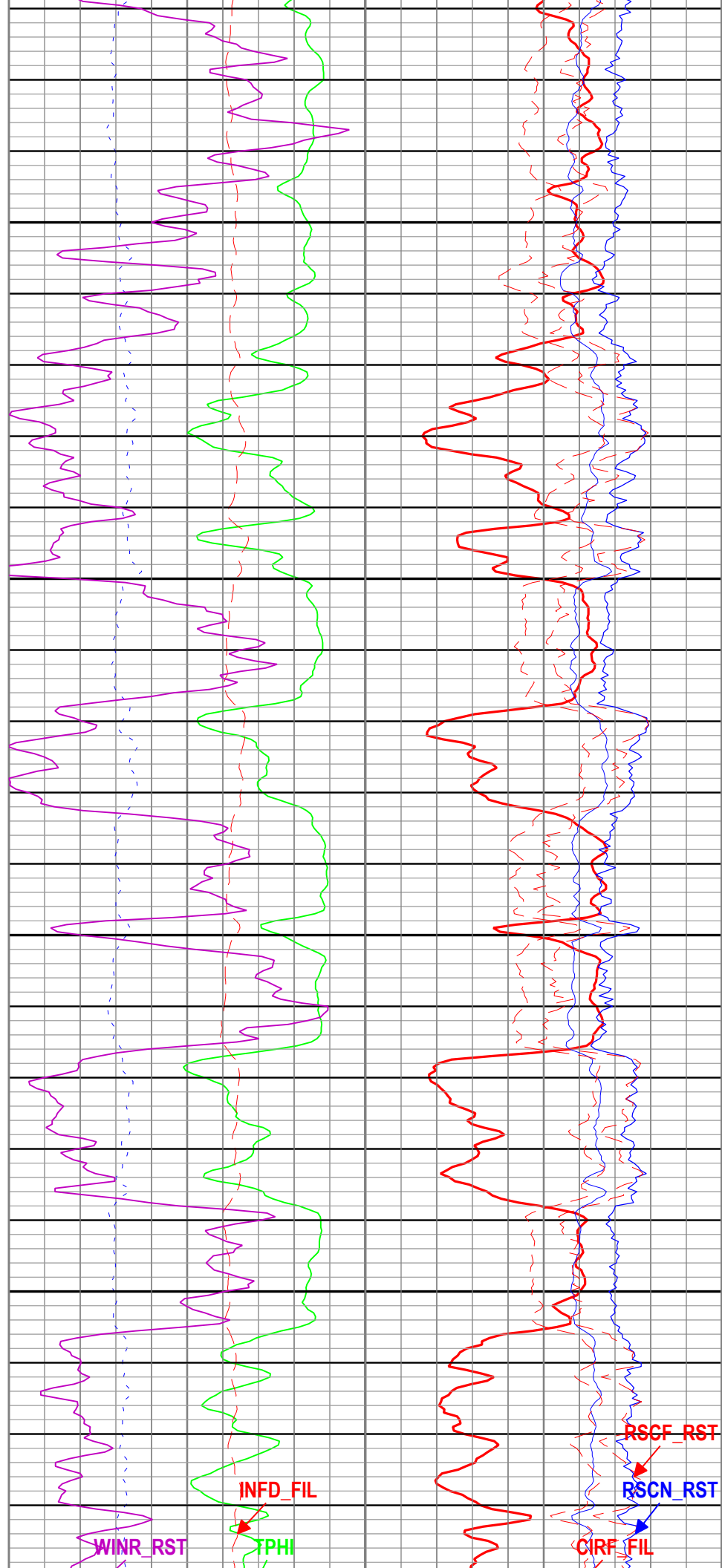
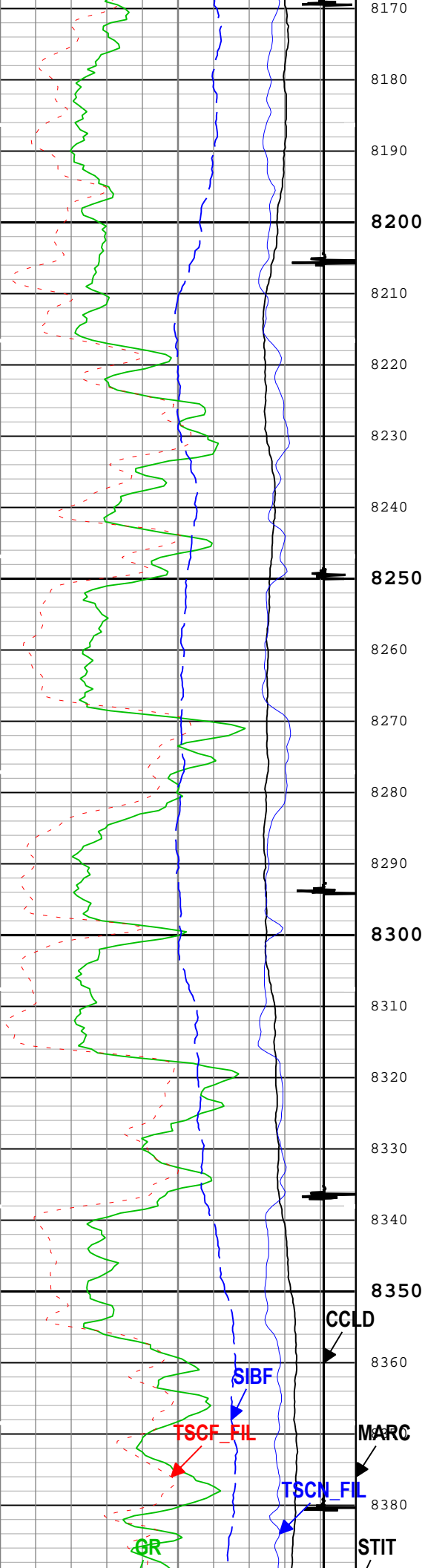


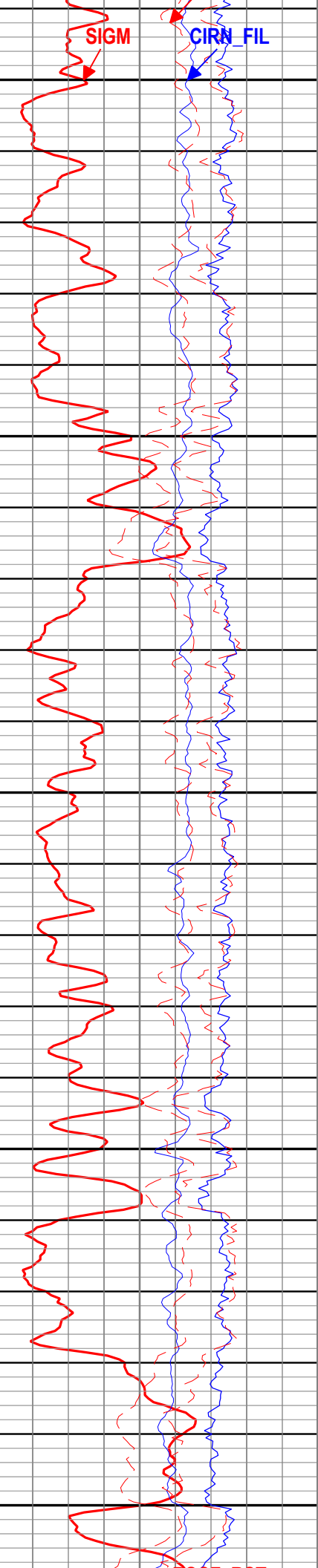
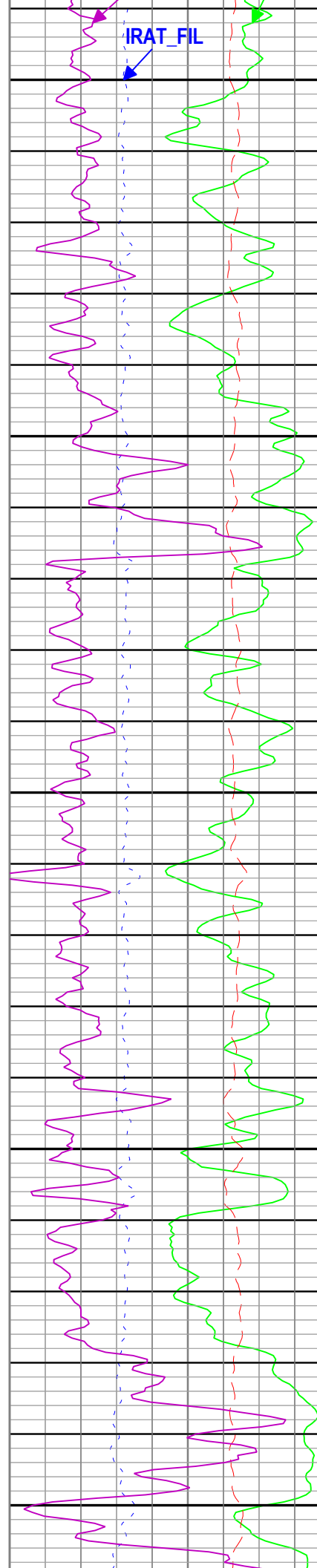
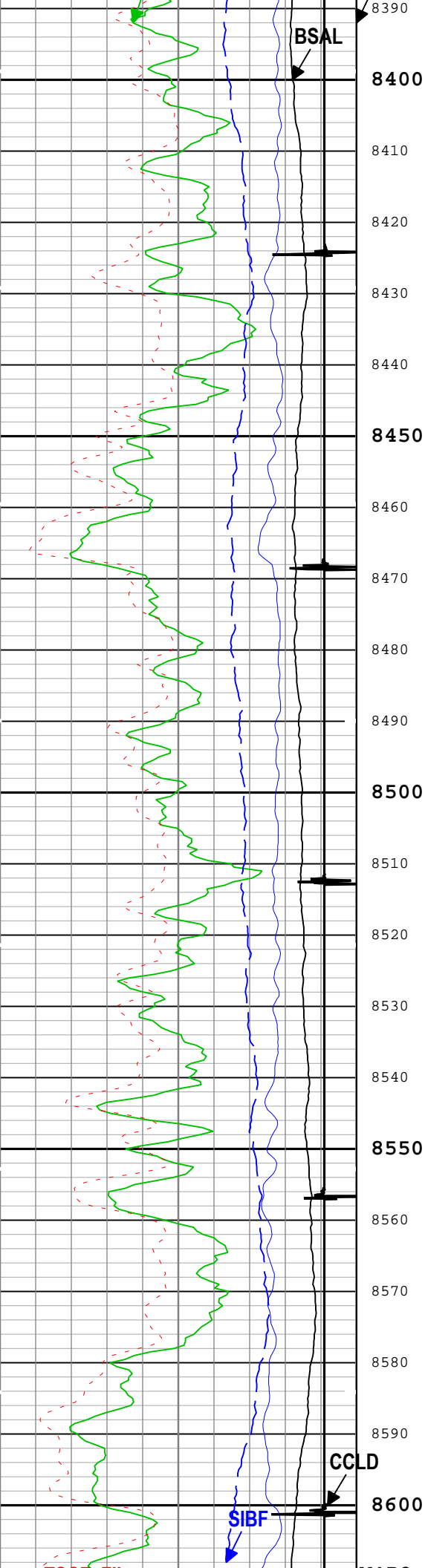


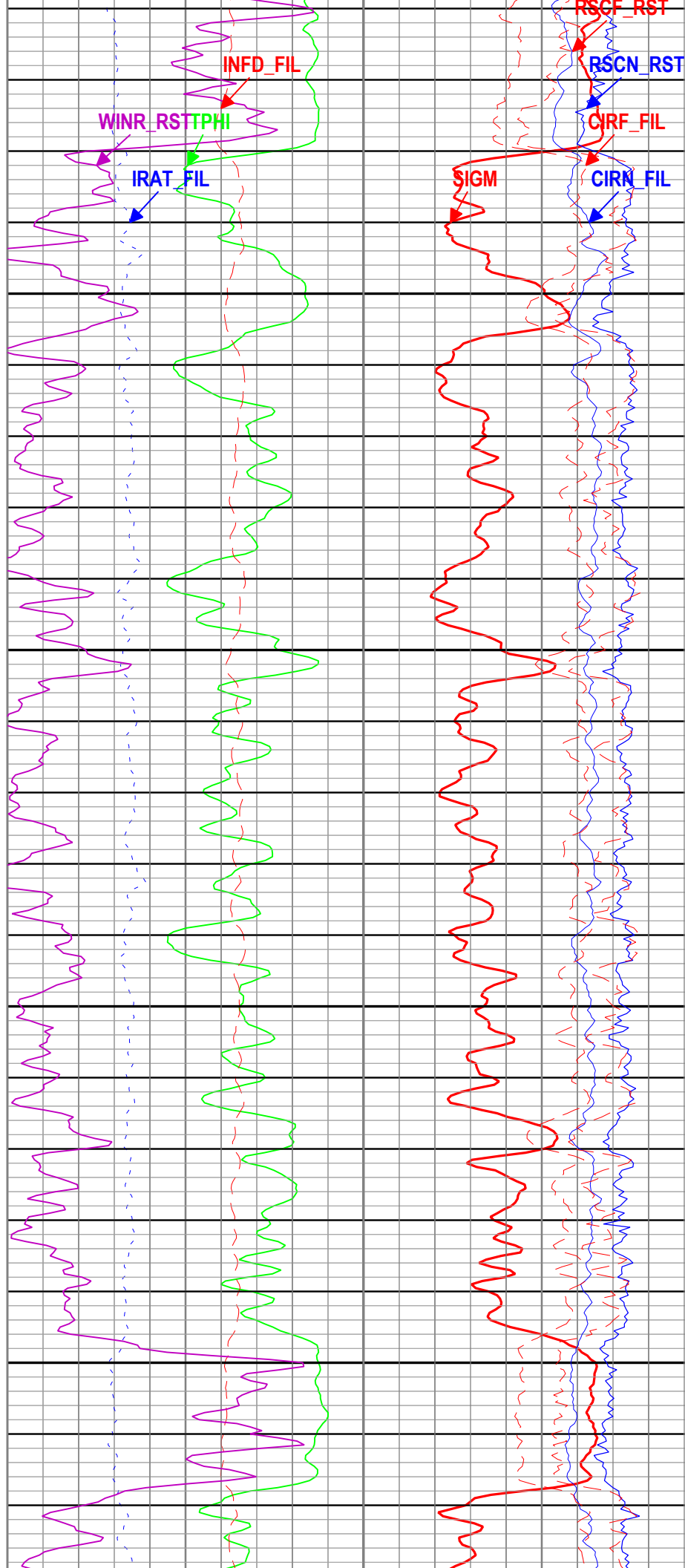
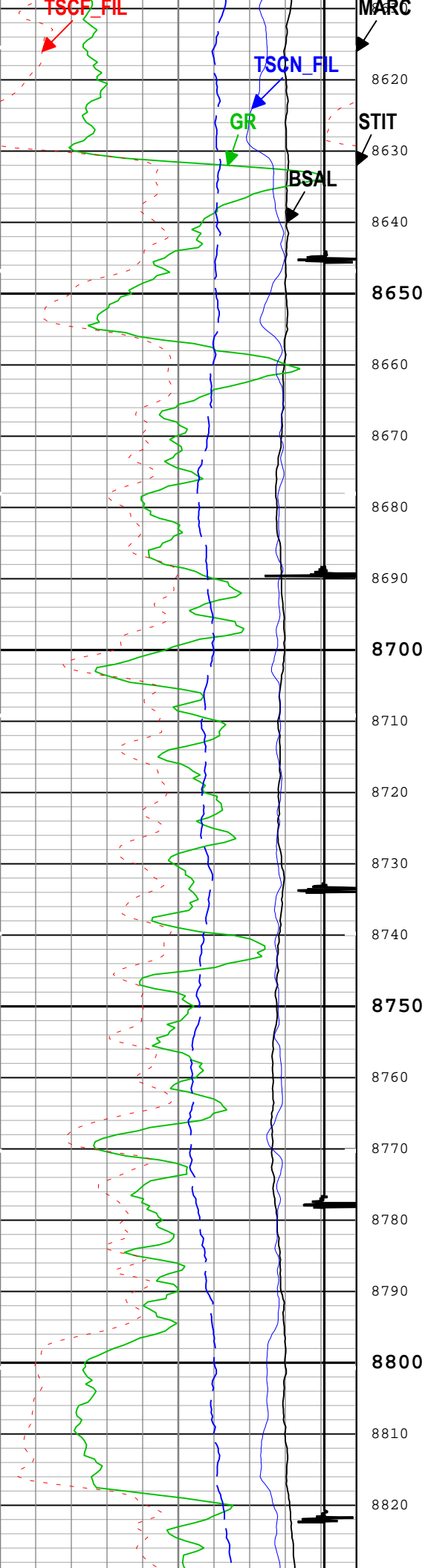


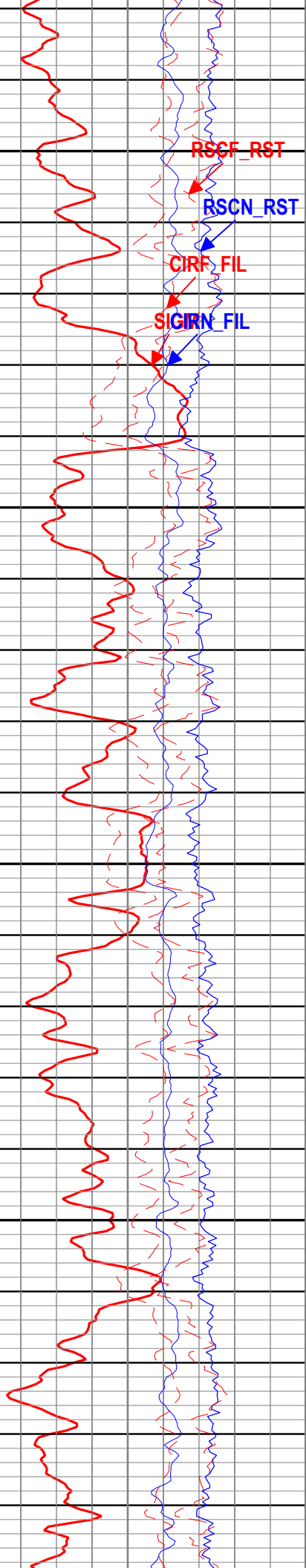
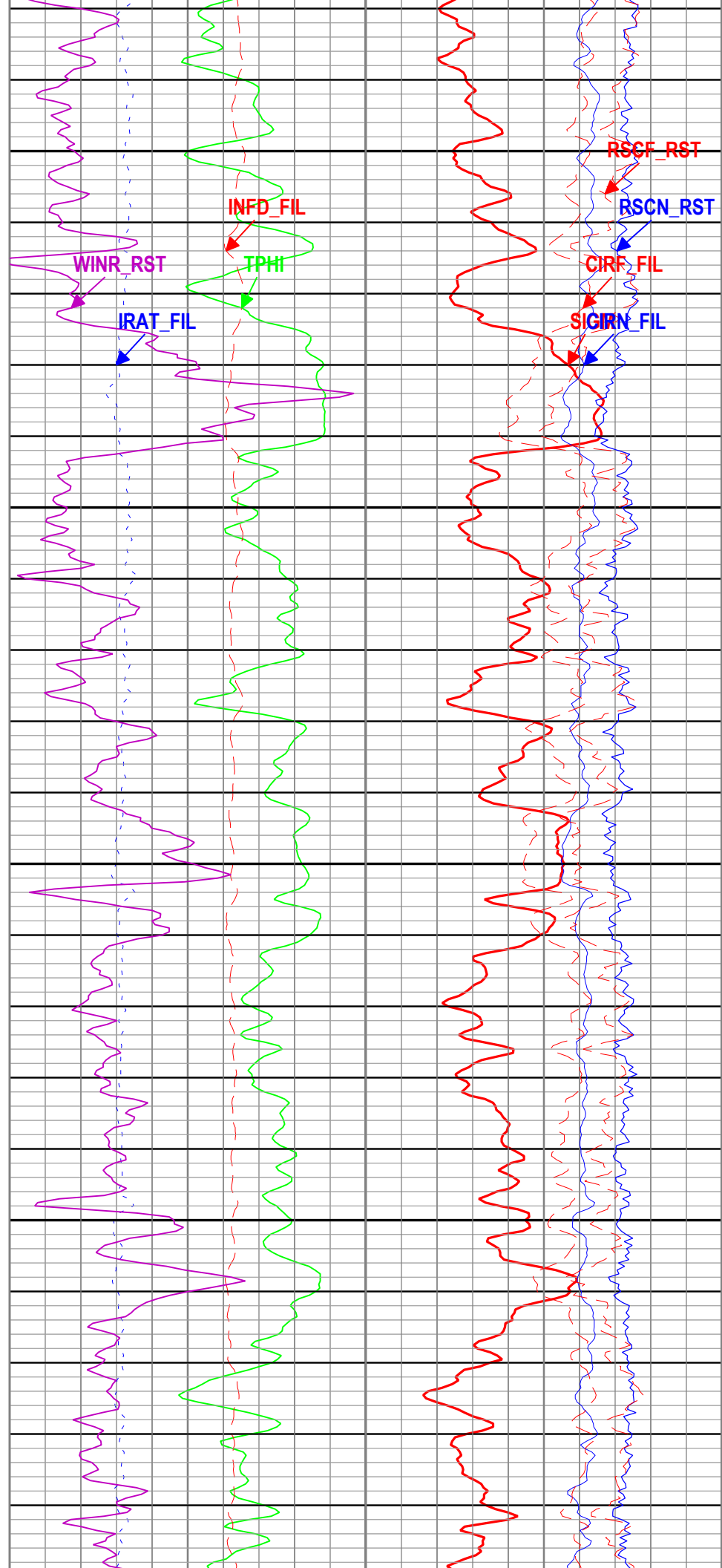
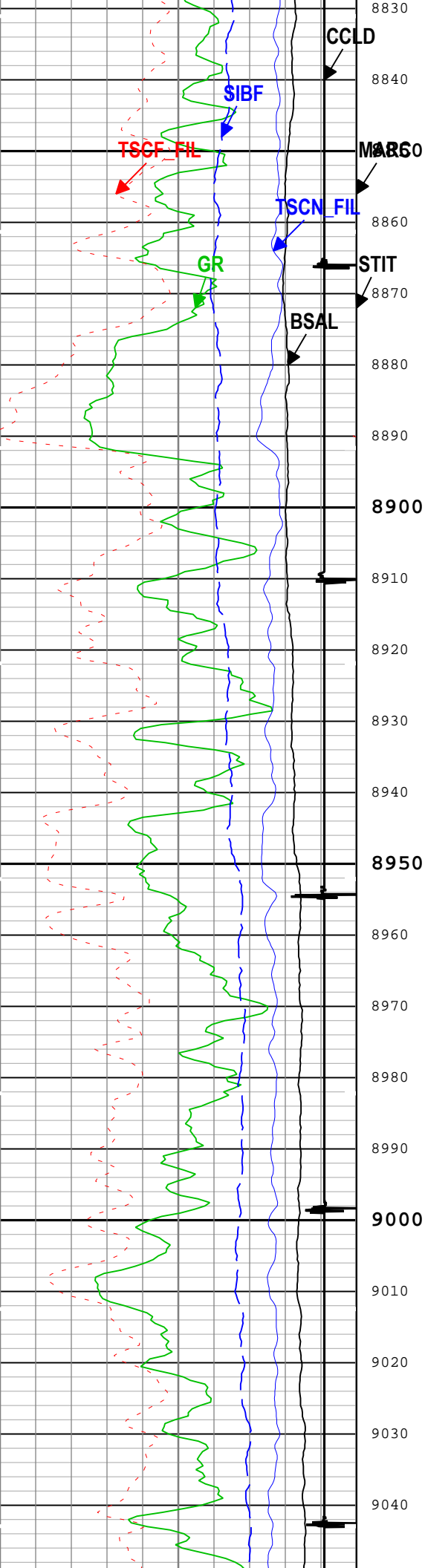


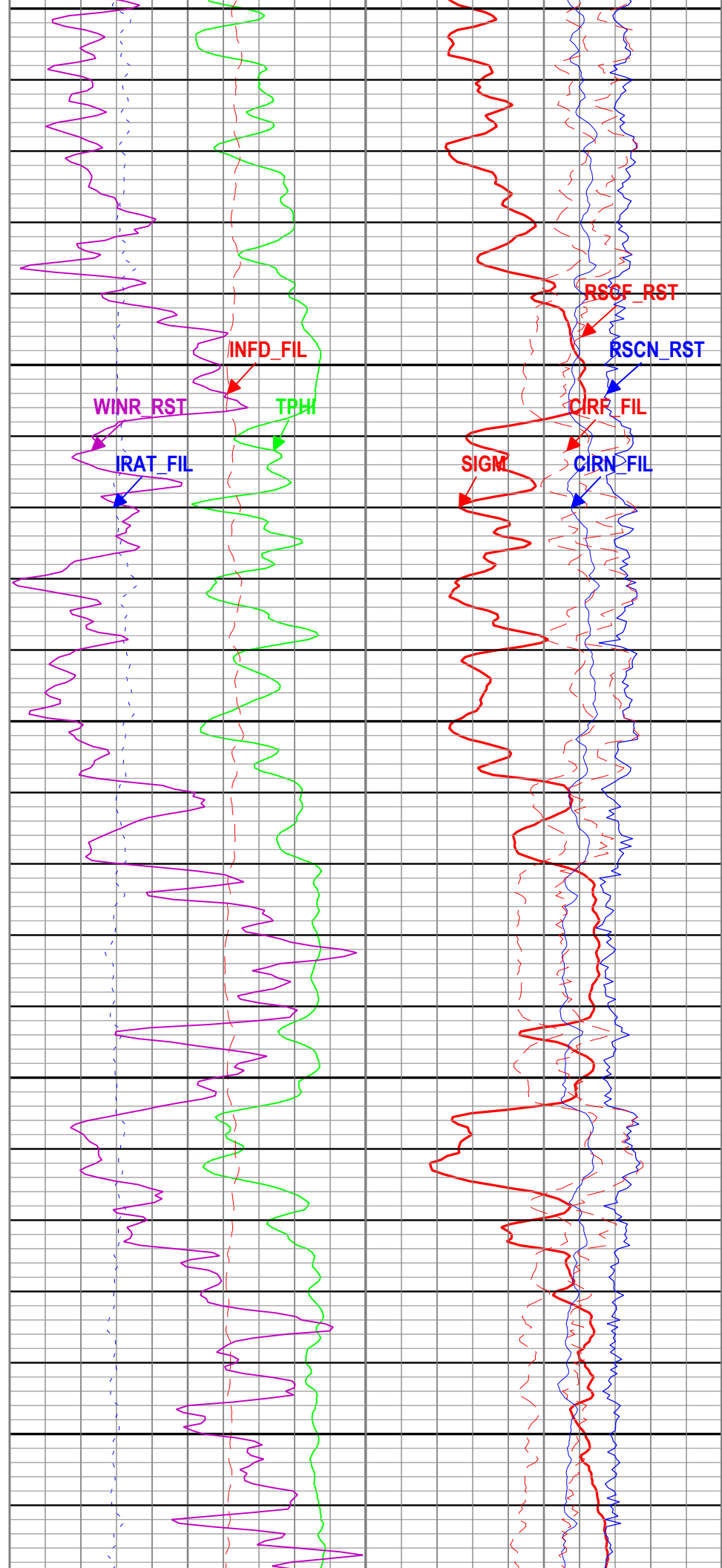
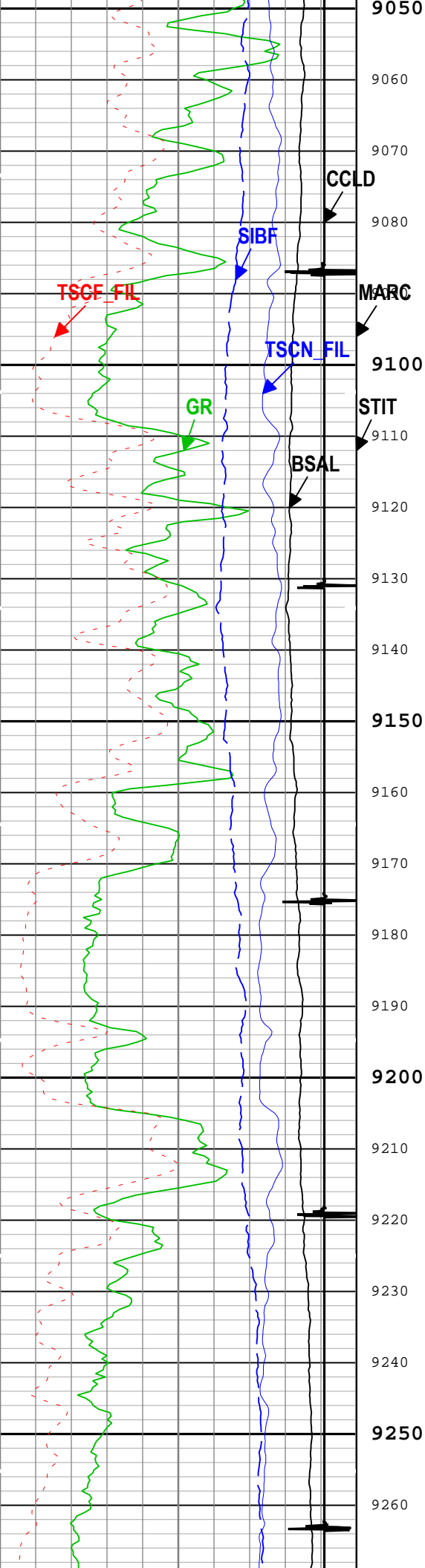


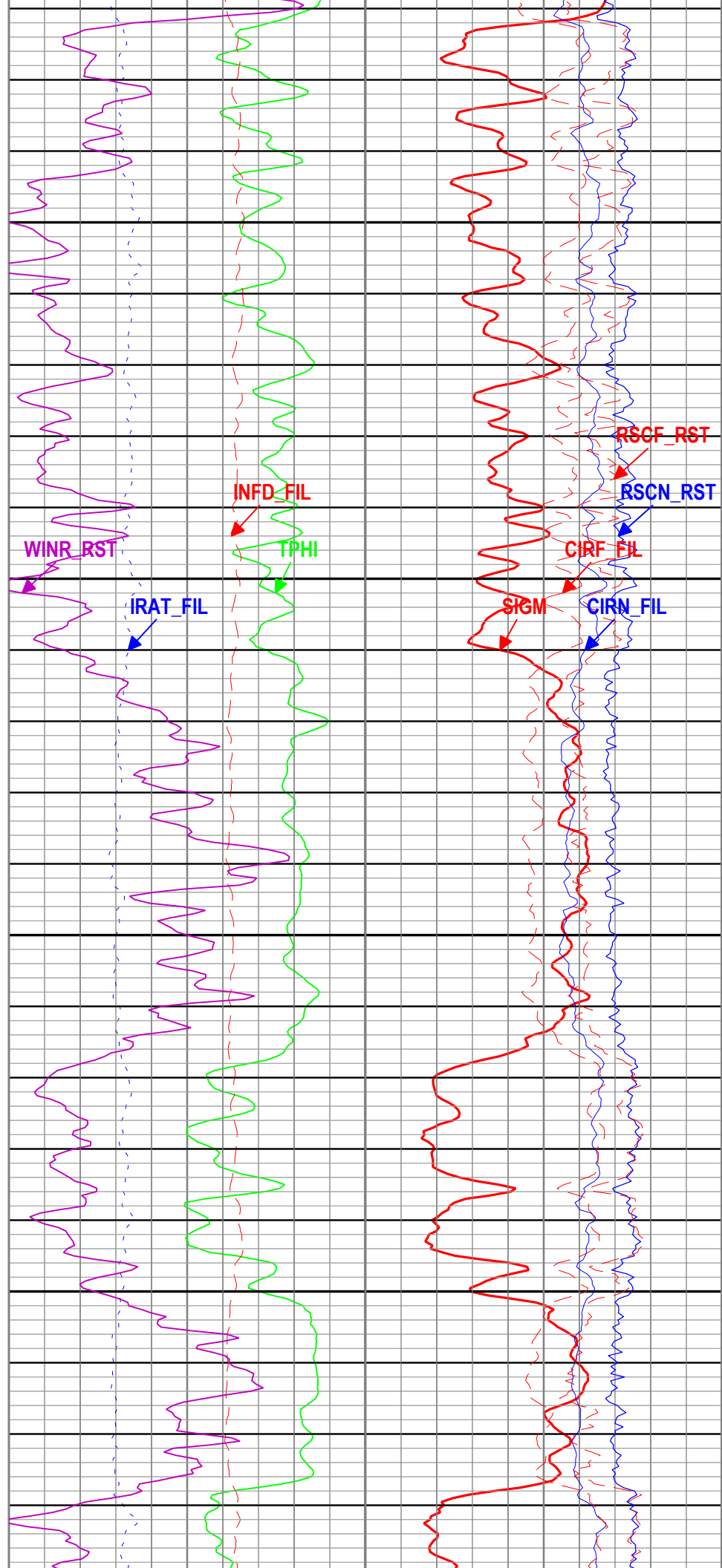
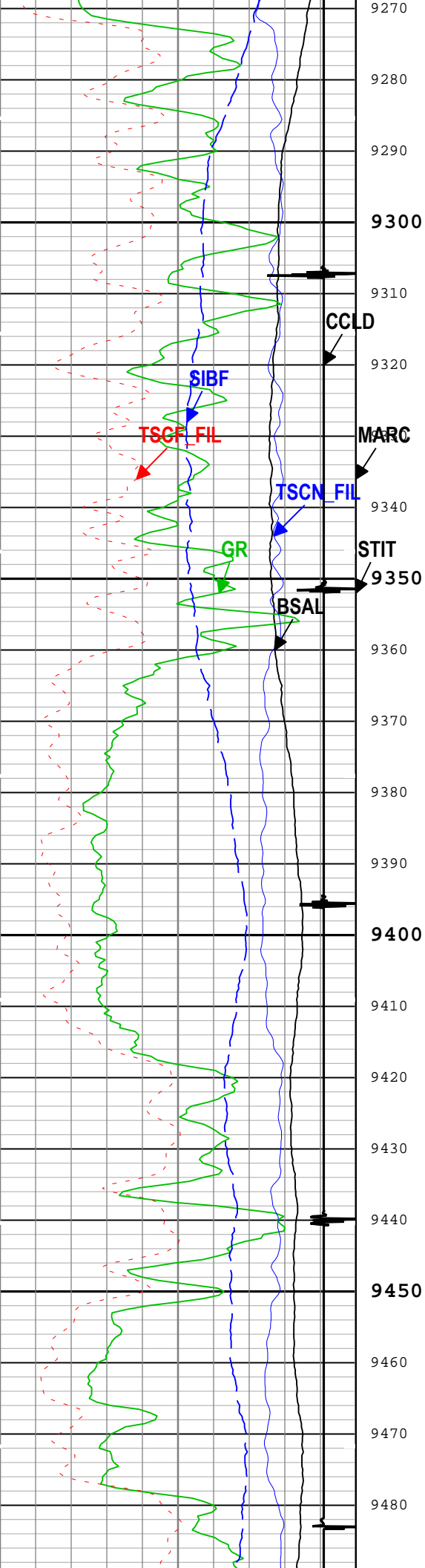


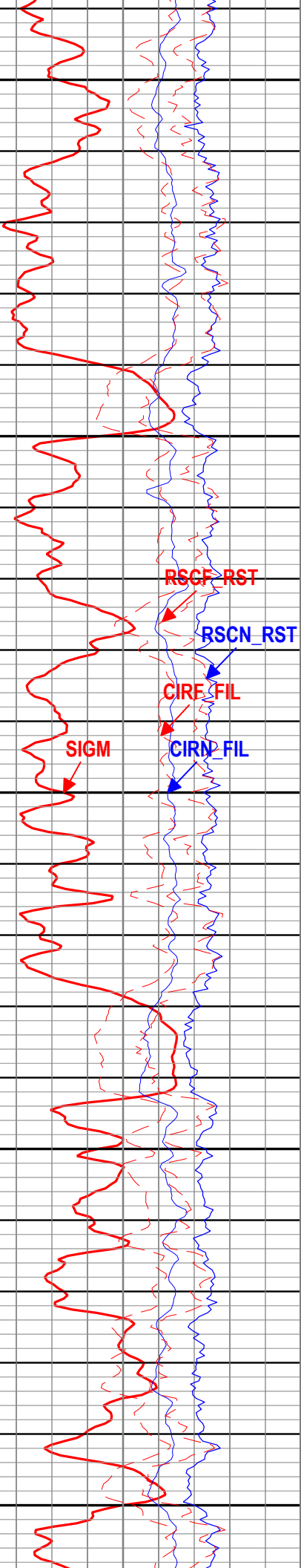
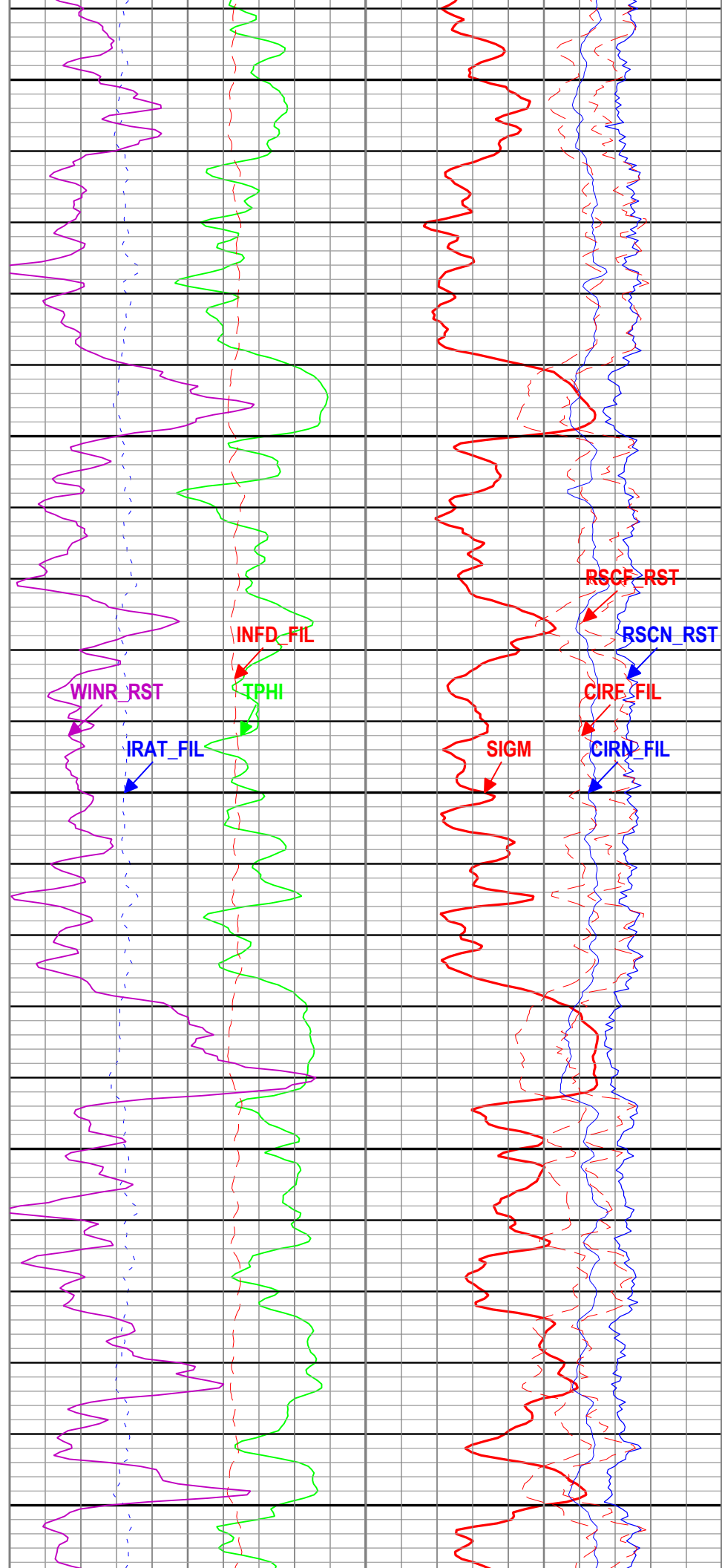
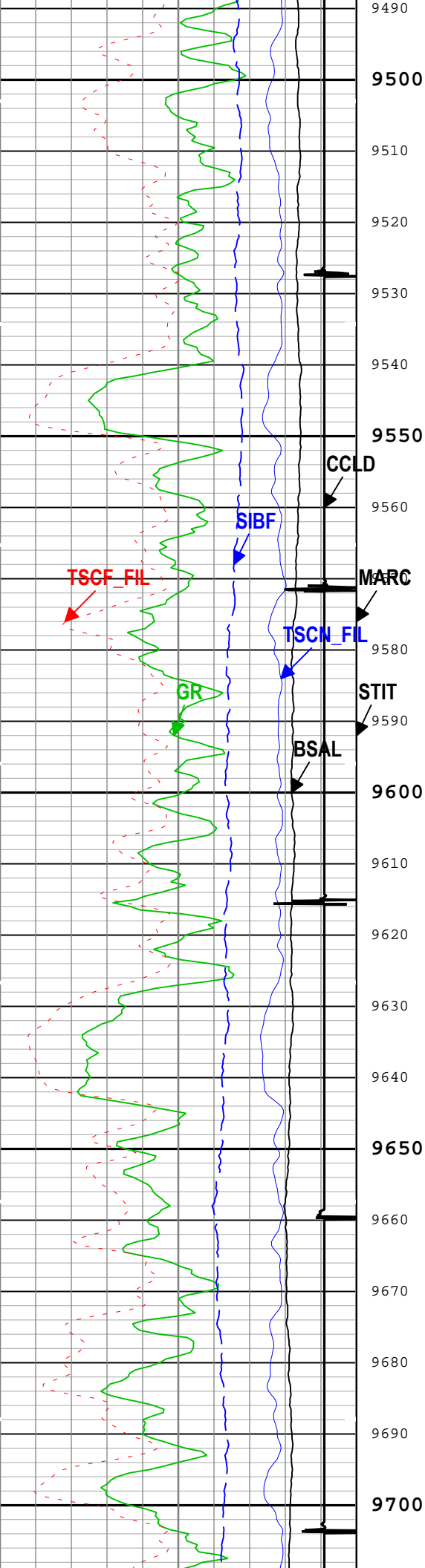


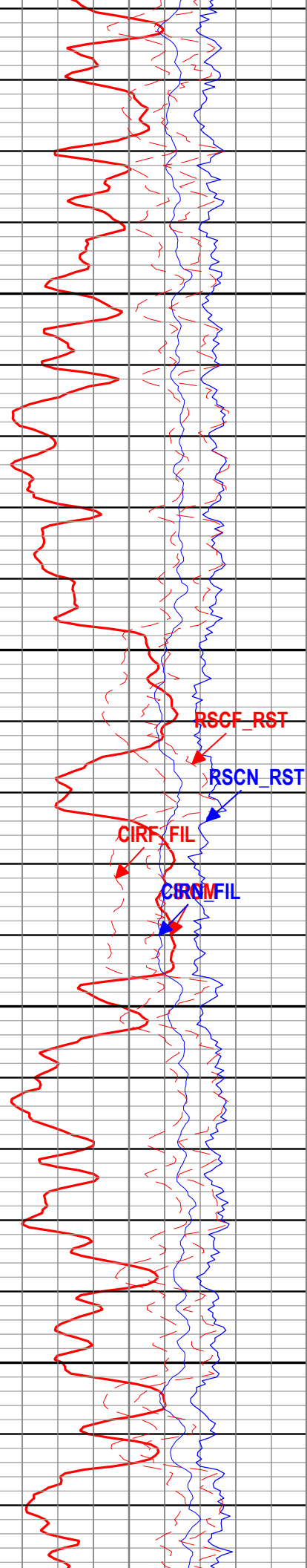
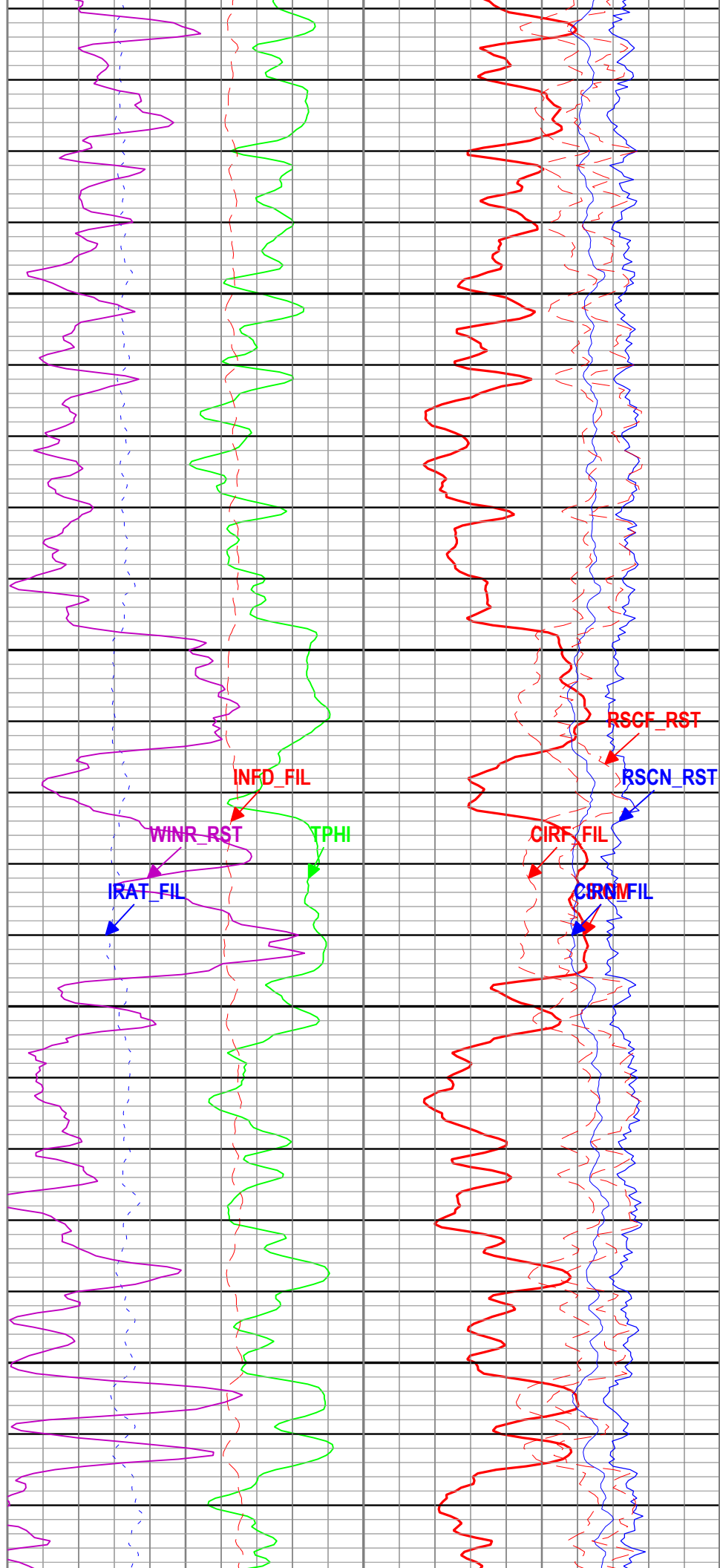
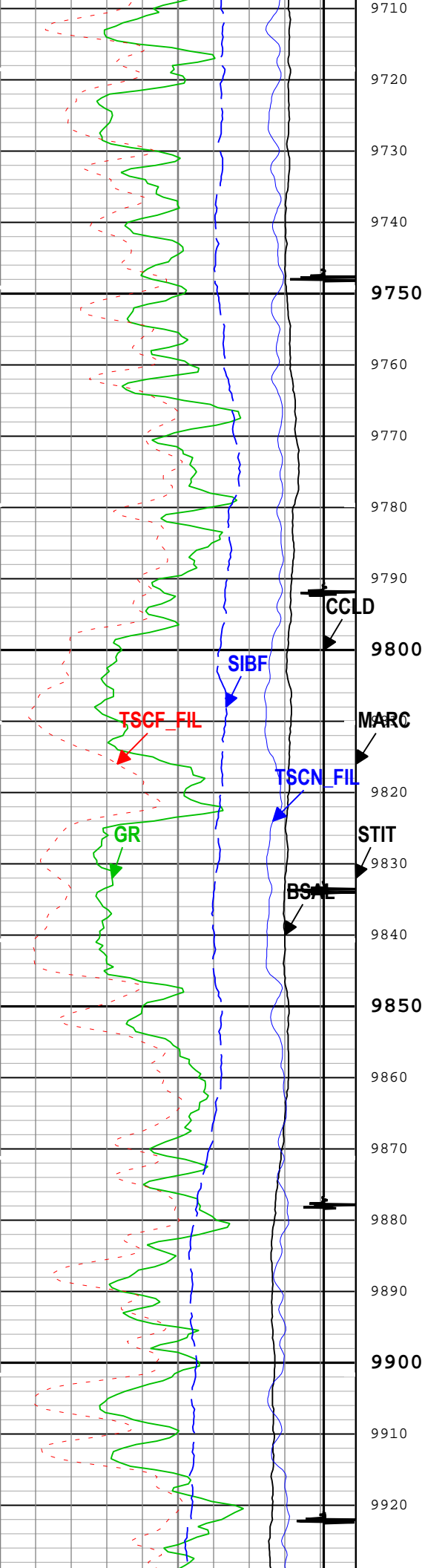


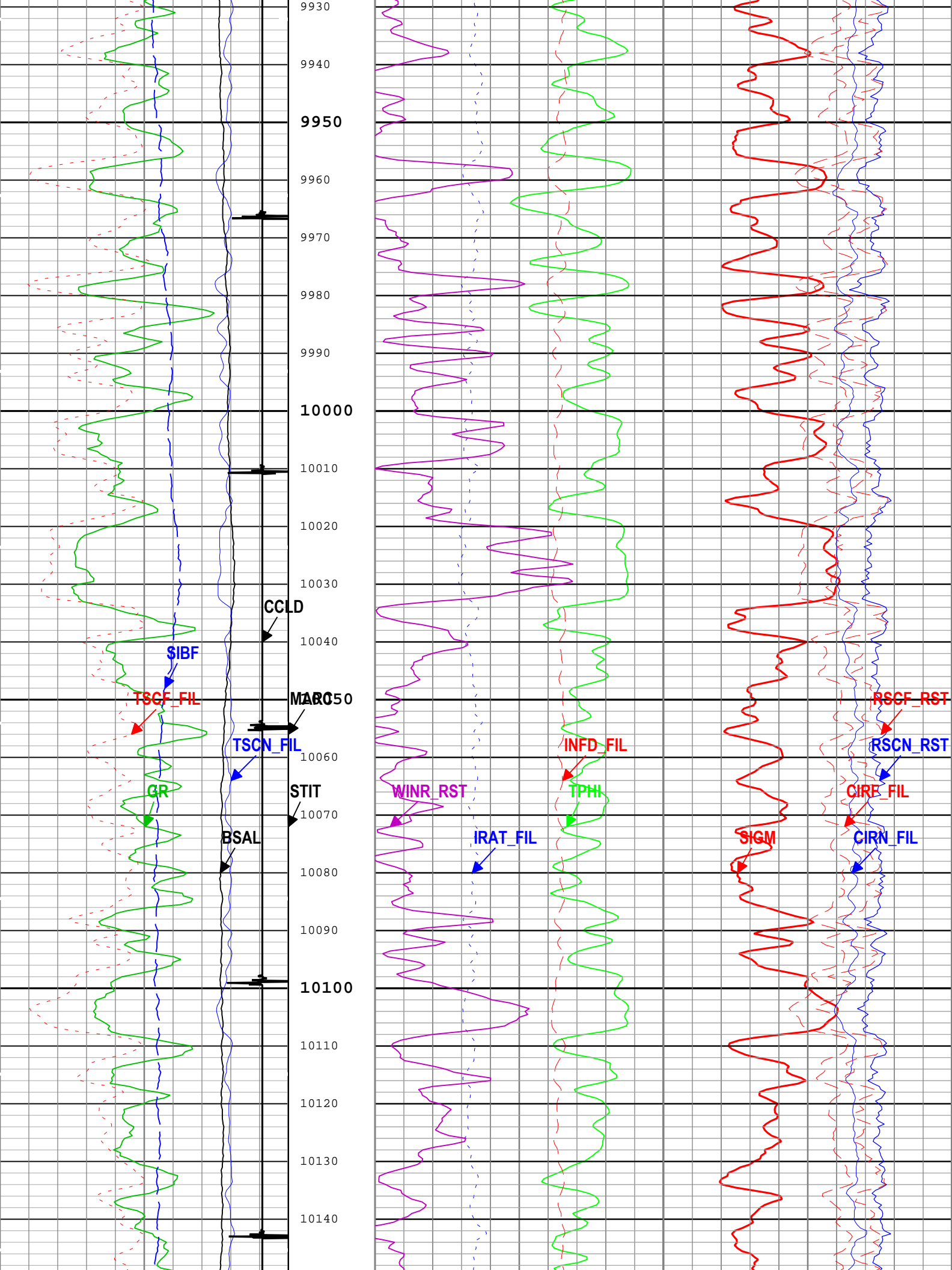


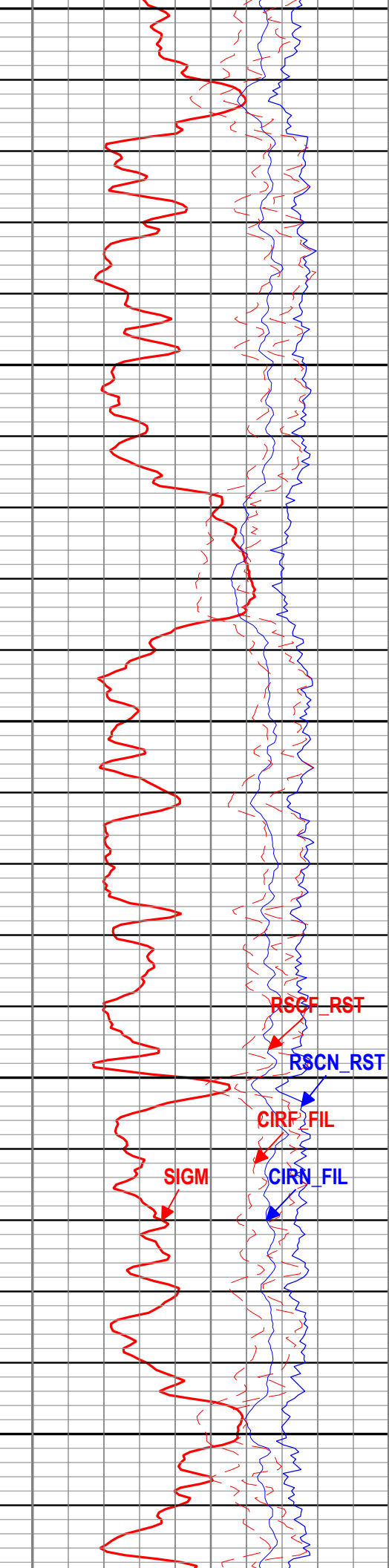
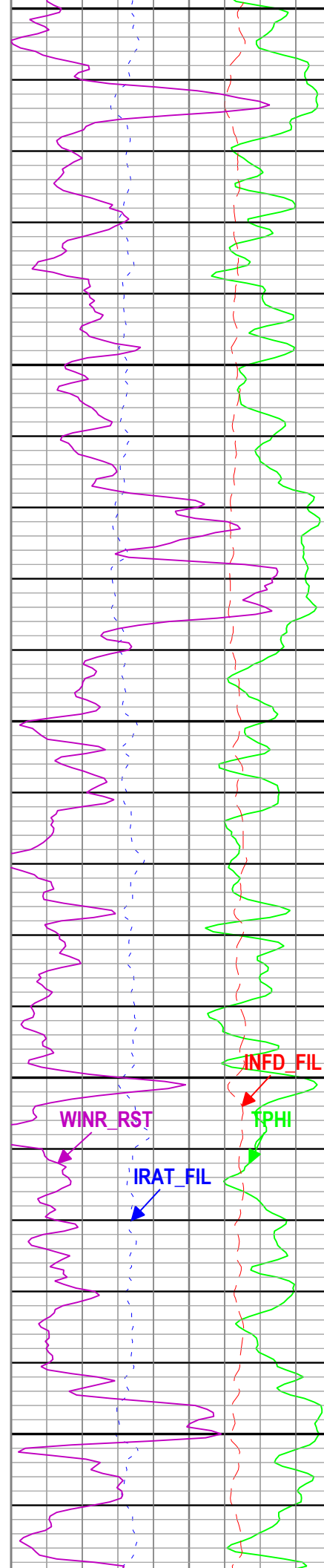
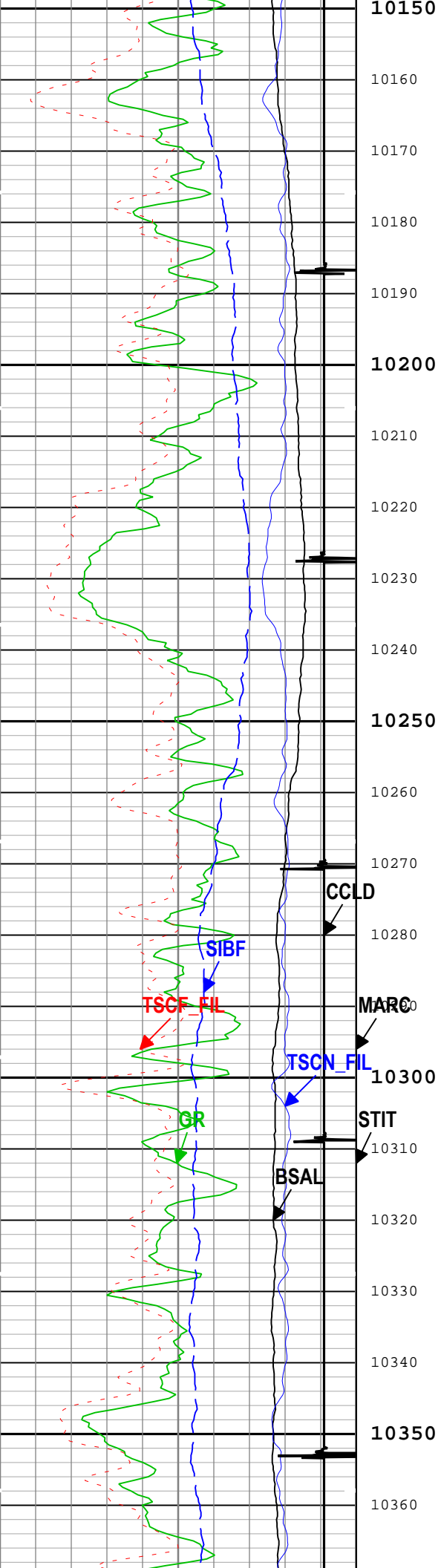


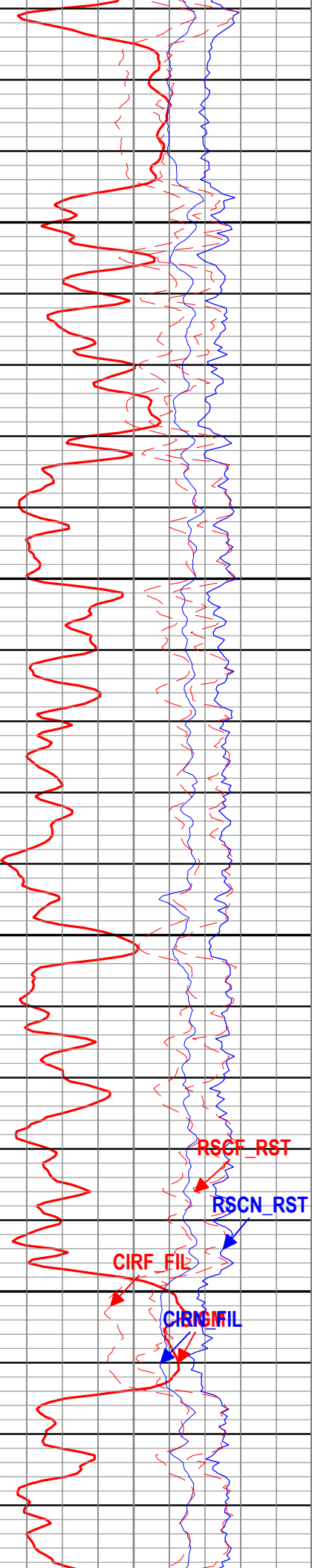
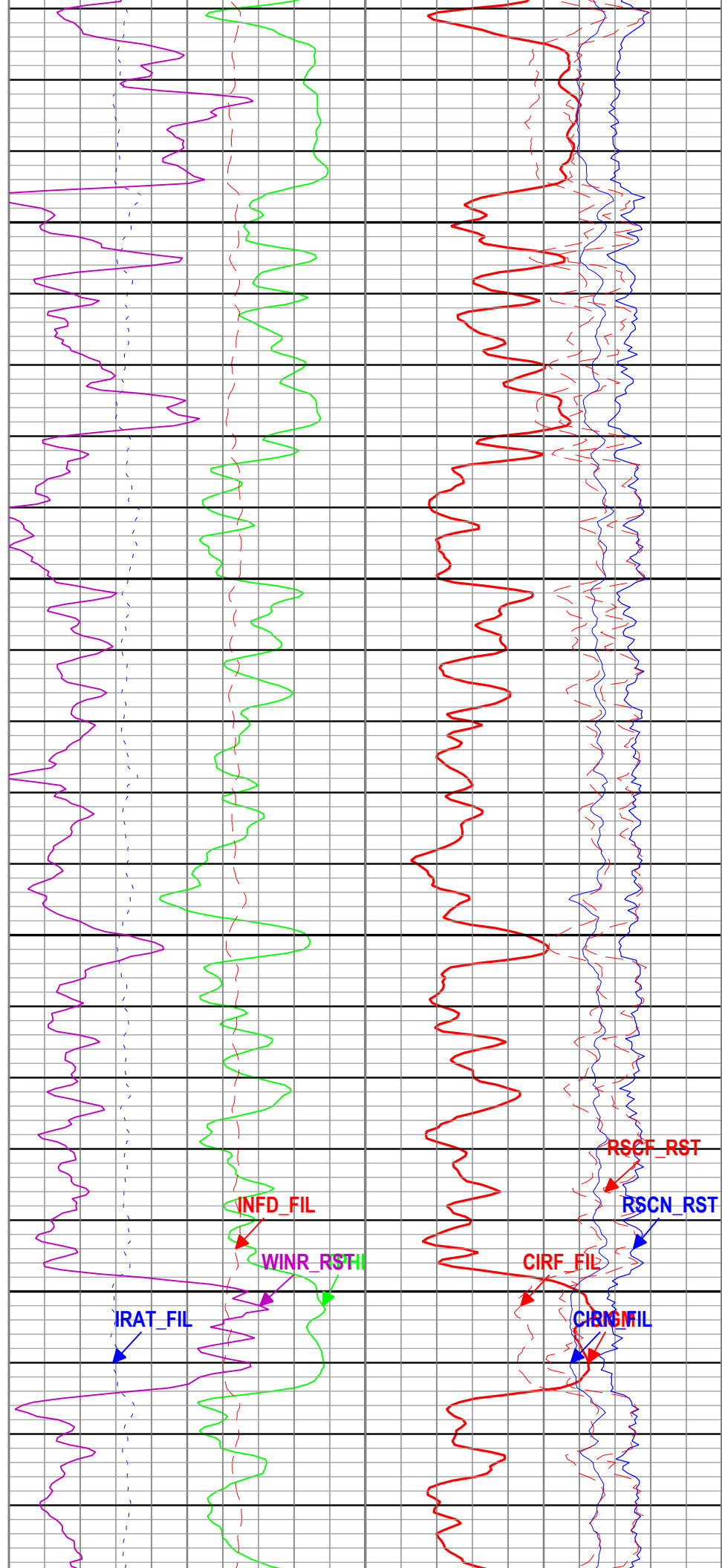
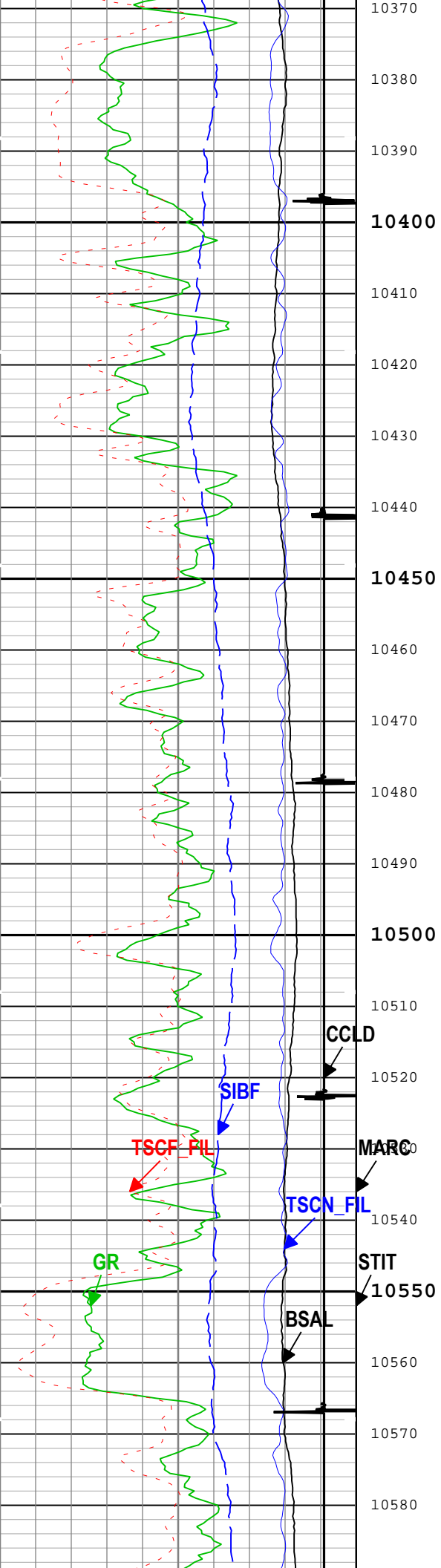


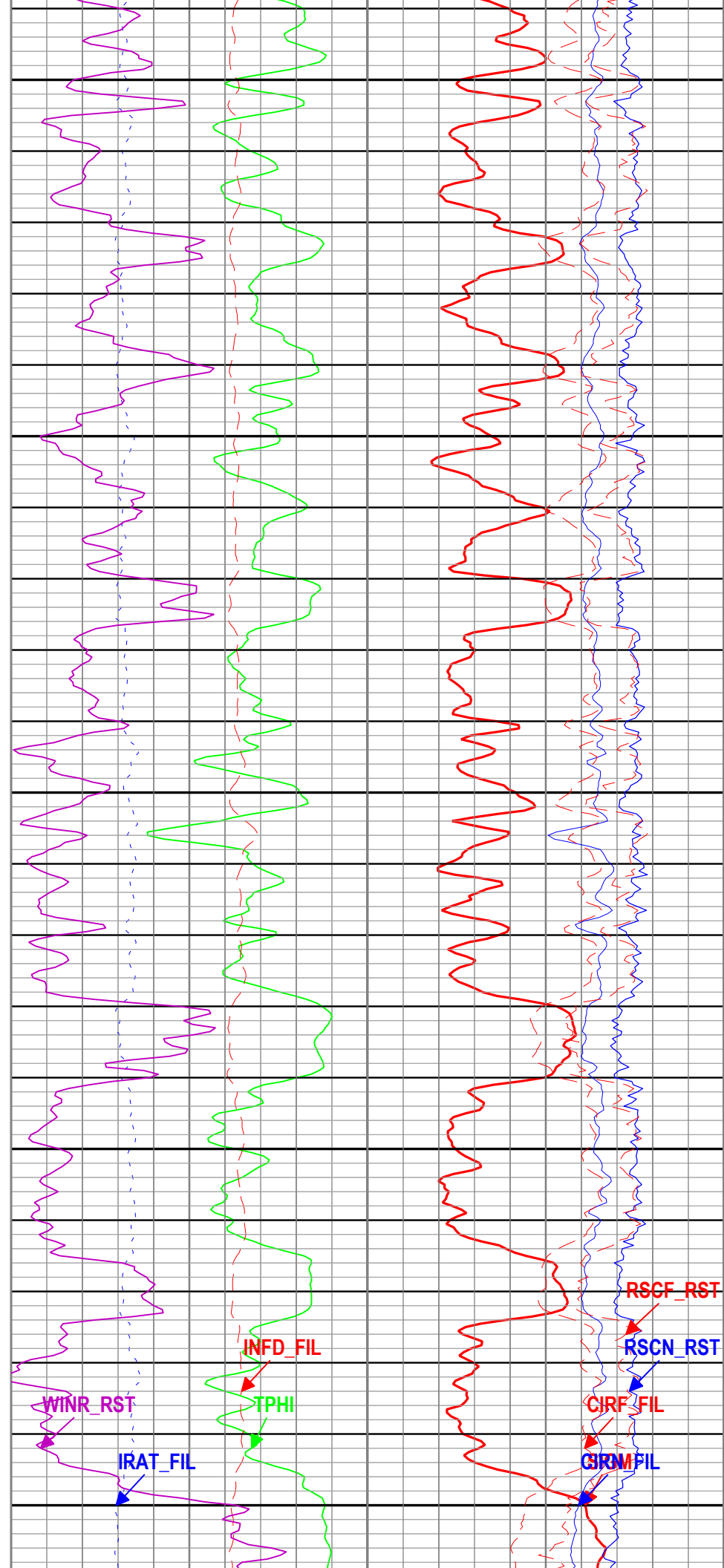
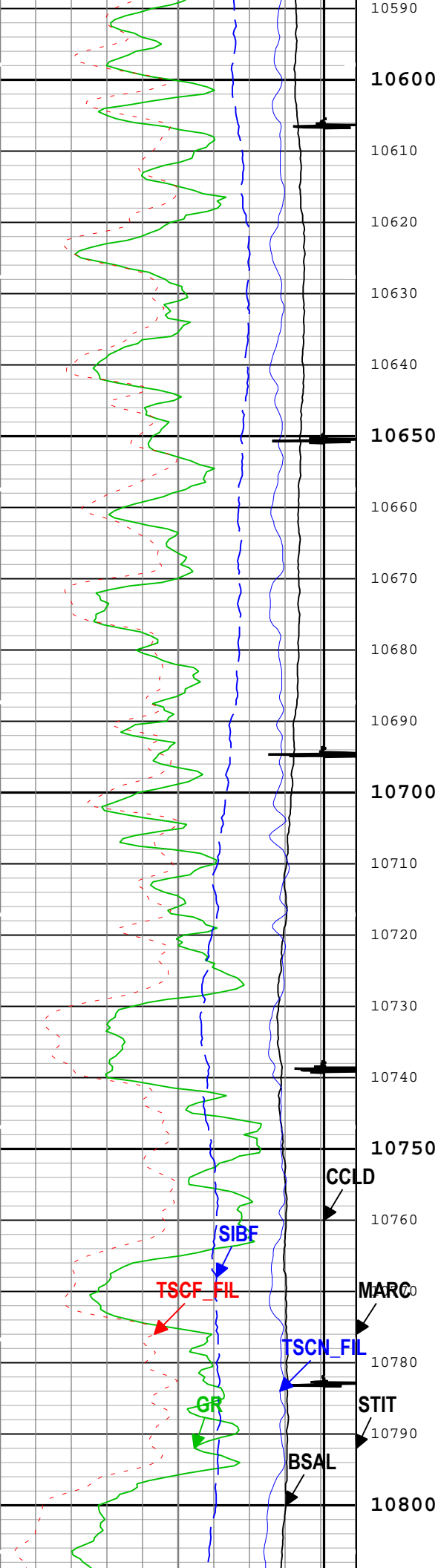


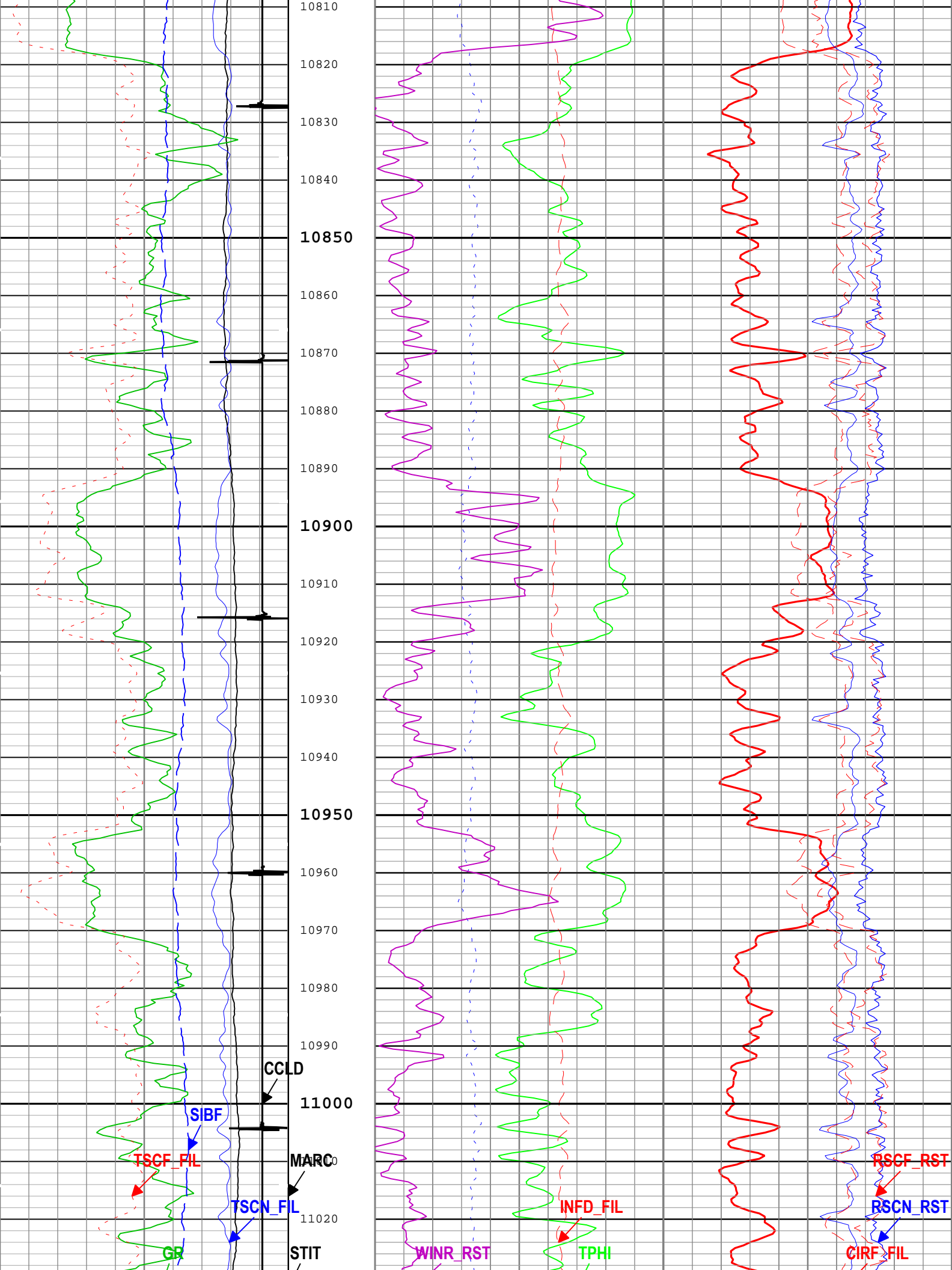


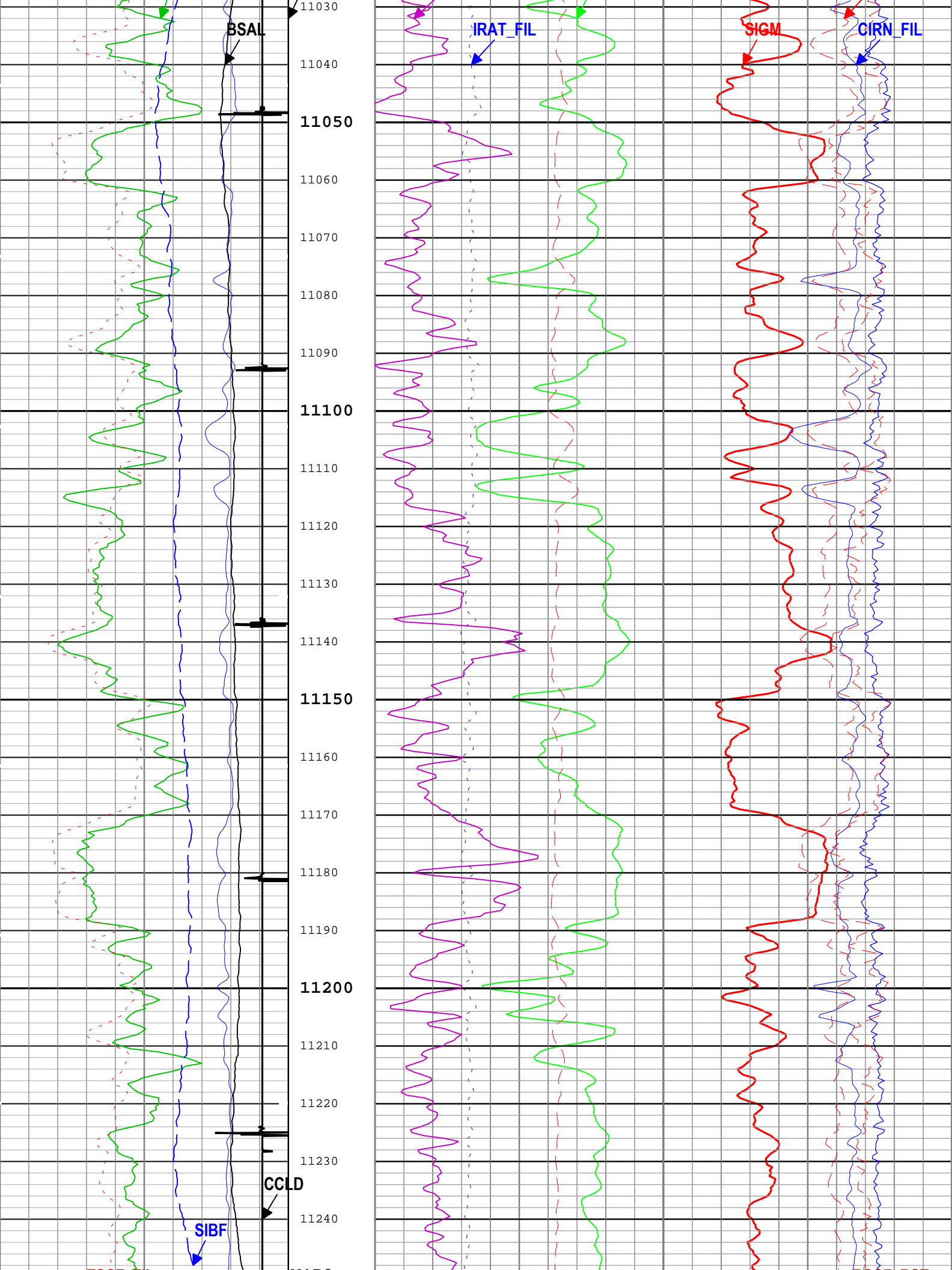


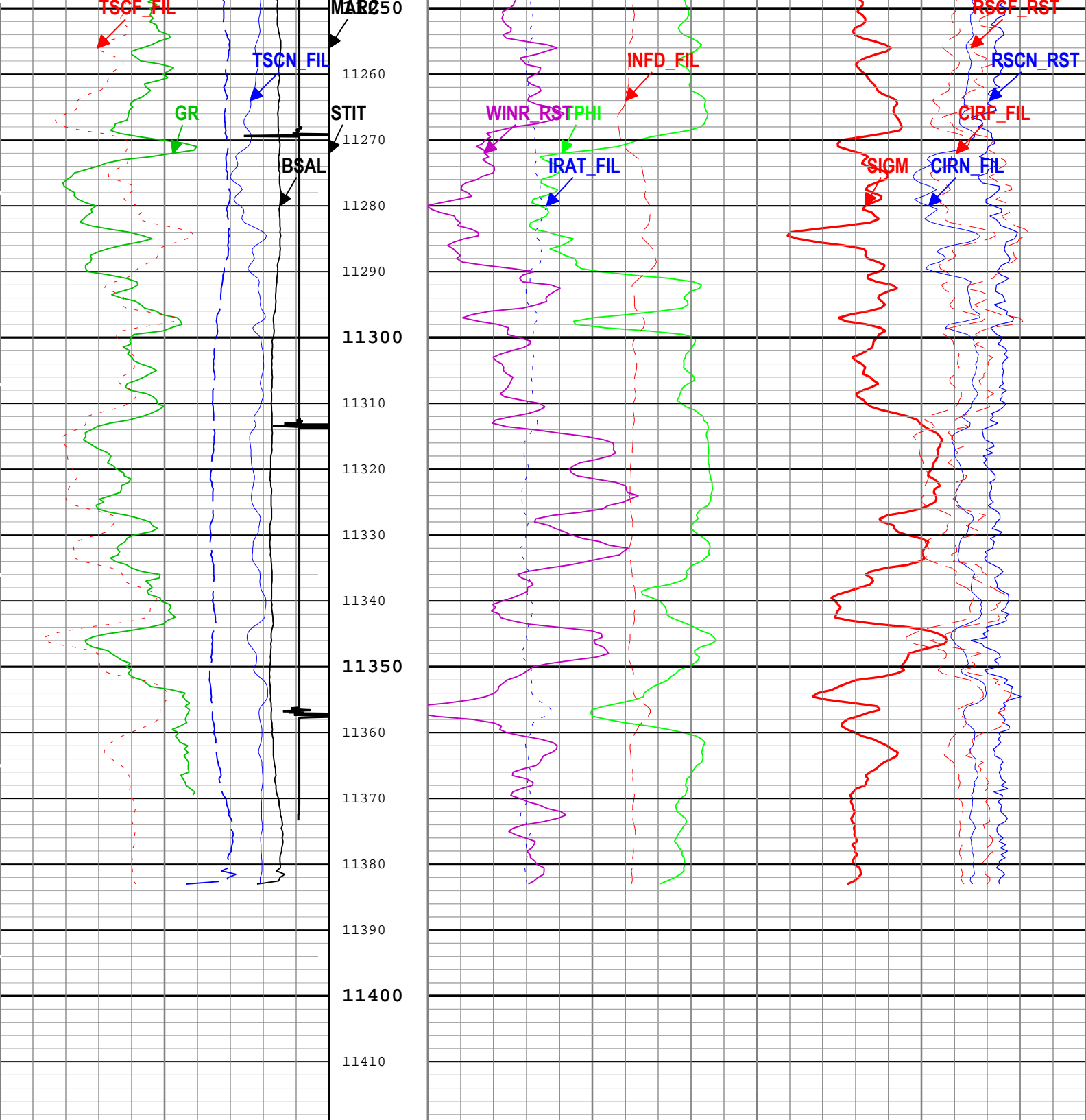












Borehole Salinity (BSAL) RST-C			Stuck Tool Indicator, Total (STIT)		Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C			
450	ppk	-50			60	cu		0
Gamma Ray (GR) PSTP-E			0 ft 50		Weighted Inelastic Ratio (WINR_RST) RST-C			
0	gAPI	150			0			0.4
Total Selected Count Rate Near Detector Filtered (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	0
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	ft3/ft3	0	5
Sigma Borehole Fluid (SIBF) RST-C					Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C		Near Detector Effective Unregulated Capture	

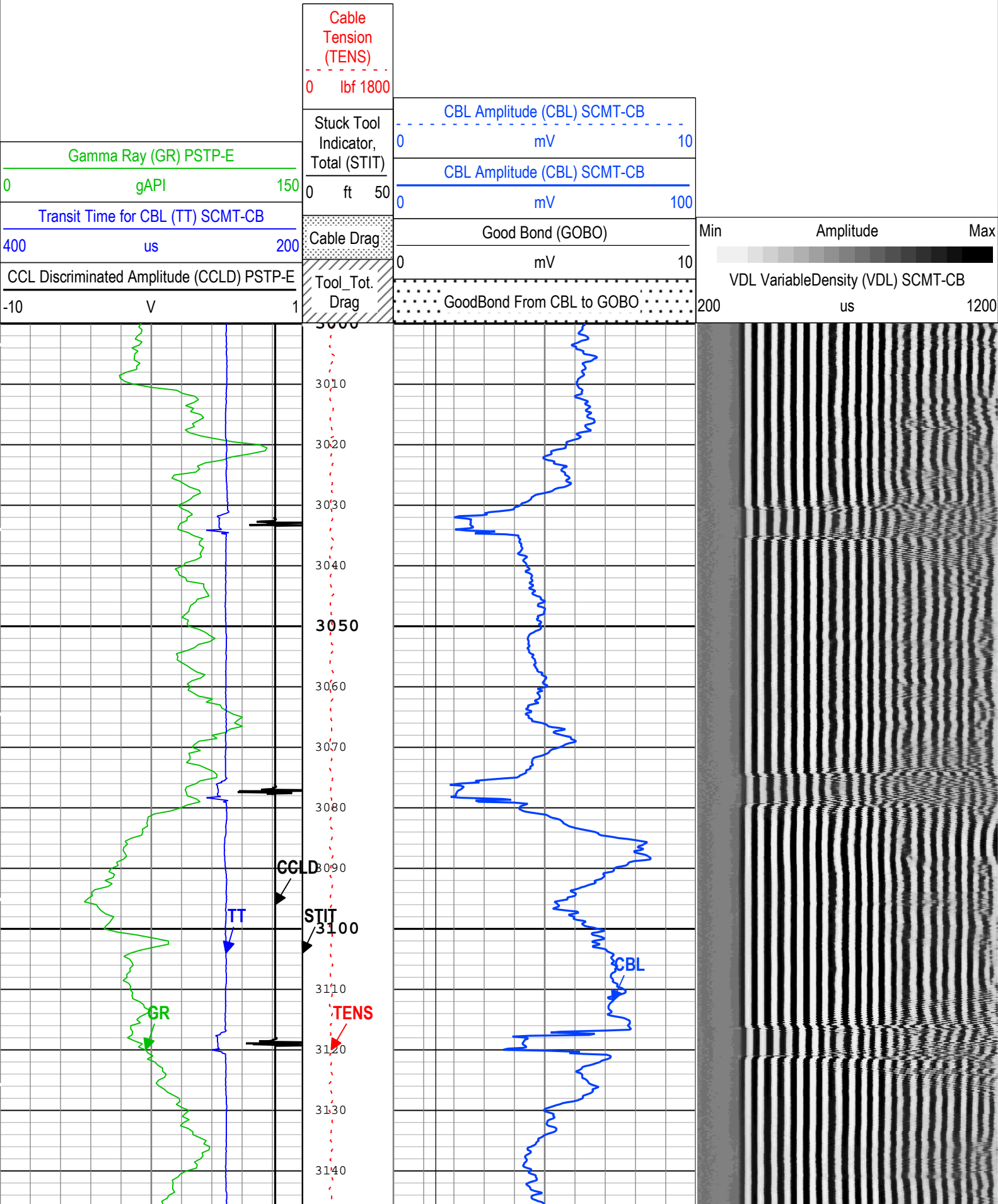
100	cu	0	Minitron Arc Count (MARC) RST-C	10000	1/s	0	Count Rate (RSCN_RST) RST-C	45	0
CCL Discriminated Amplitude (CCLD) PSTP-E								Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C	
-10	V	1	0	5				45	0
<div> <div>ICV - Integrated Cement Volume every 100.00 (ft3)</div> <div>ICV - Integrated Cement Volume every 10.00 (ft3)</div> <div>IHV - Integrated Hole Volume every 100.00 (ft3)</div> <div>IHV - Integrated Hole Volume every 10.00 (ft3)</div> </div>									
TIME_1900 - Time Marked every 60.00 (s)									
TIME_1900 - Elapsed time since midnight, 30 December 1899 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: 08-Mar-2019 11:40:21									

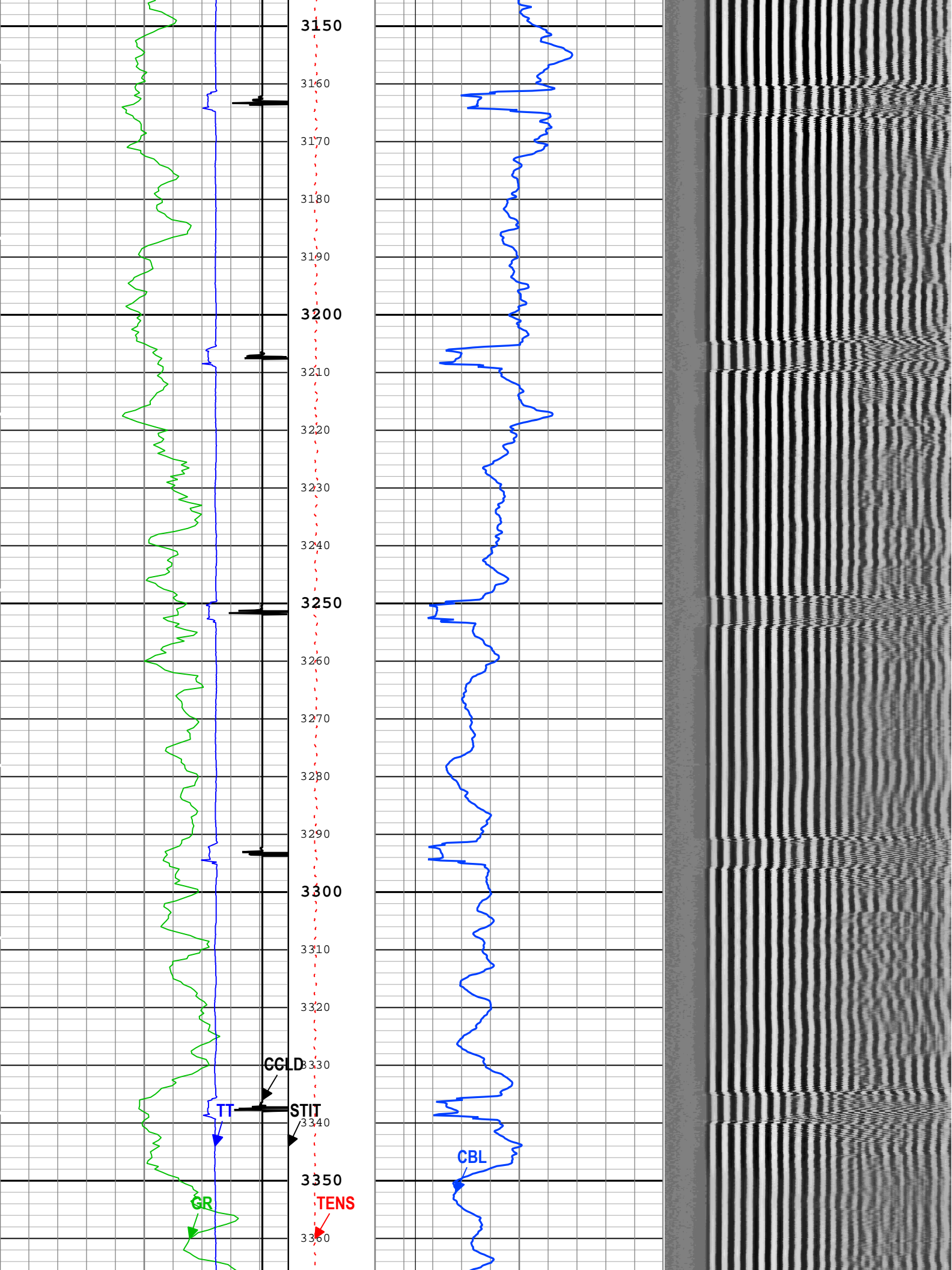
Channel Processing Parameters									
ONE: Parameters									
Parameter		Description			Tool		Value		Unit
BHS		Borehole Status (Open or Cased Hole)			Borehole		Cased		
BS		Bit Size			WLSESSION		Depth Zoned		in
BSAL		Borehole Salinity			Borehole		0		ppm
BSALOPT		Borehole Salinity Option			RST-C		Unknown		
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		2000			2984.2		
BS		8.75		2984.2			11419.18		
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[8]:Up	Up	3000.10 ft	3516.02 ft	08-Mar-2019 10:47:54 AM	08-Mar-2019 11:05:06 AM	ON	12.39 ft	Yes
All depths are referenced to toolstring zero									

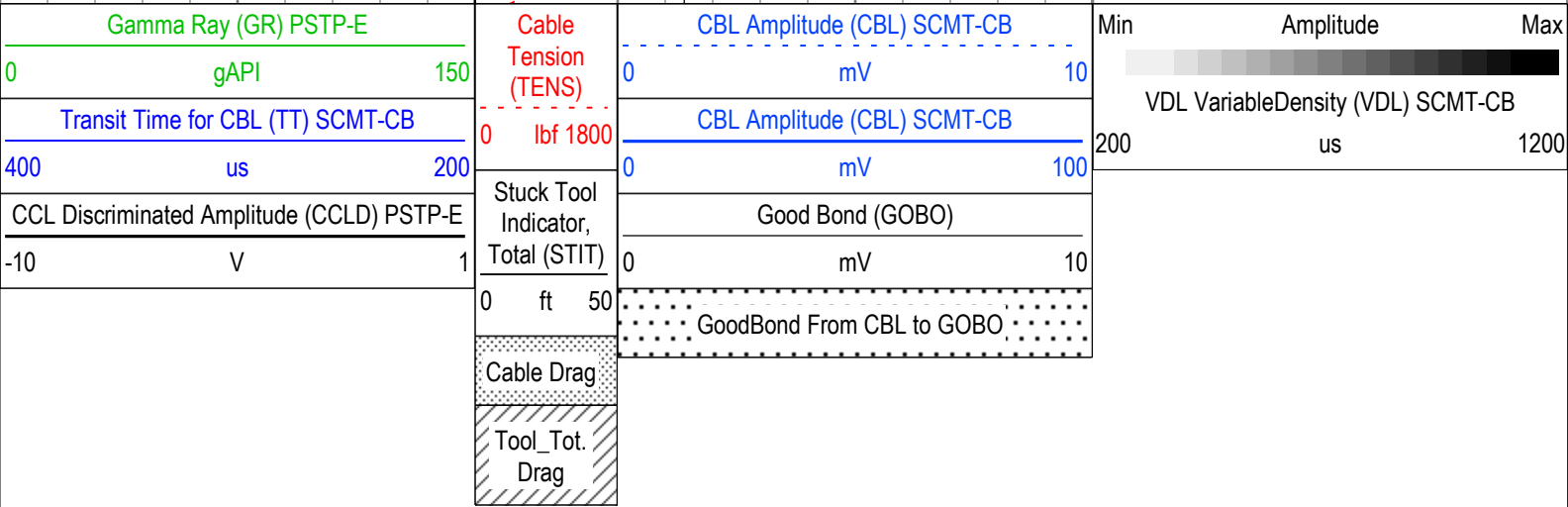
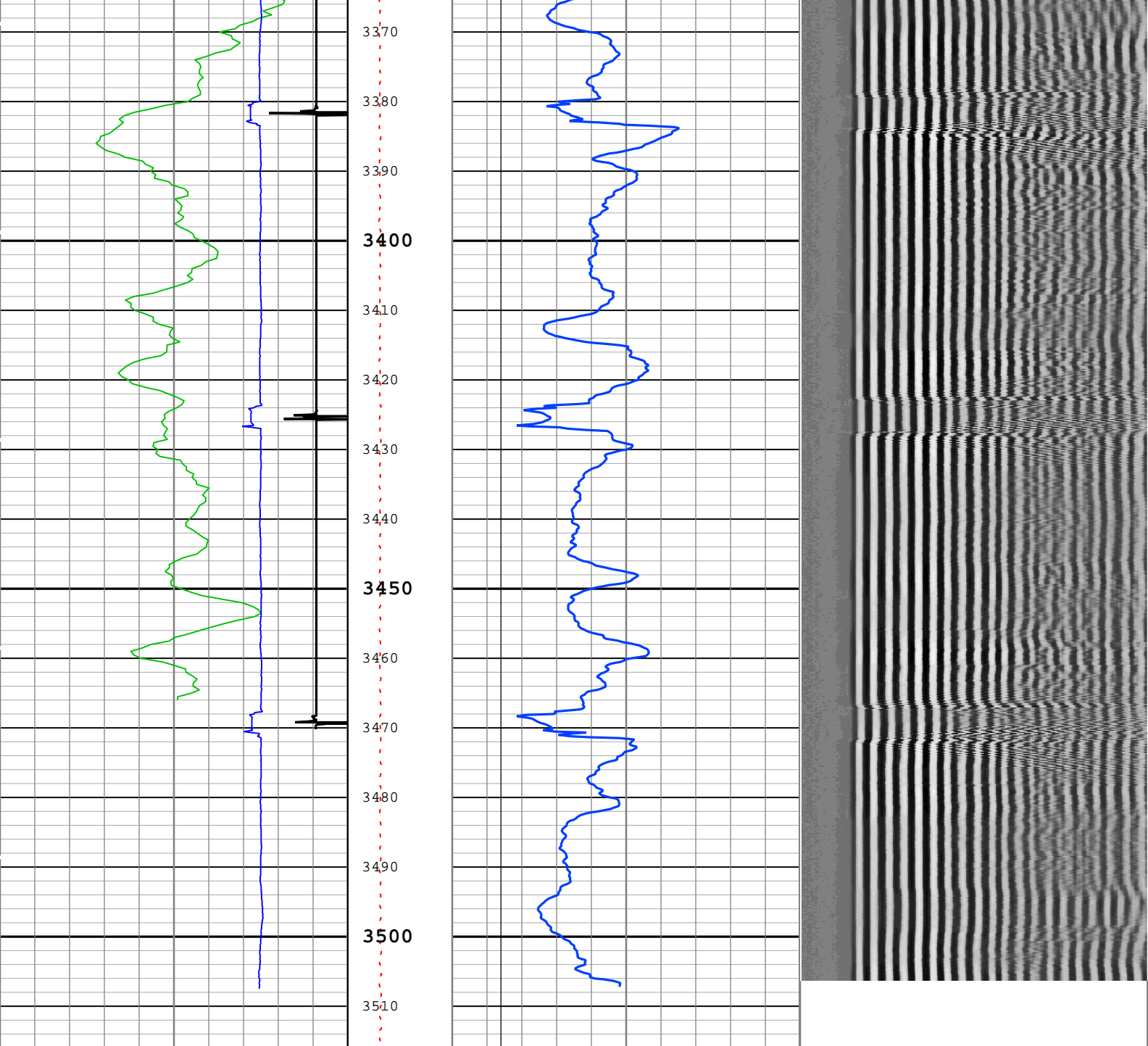
Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 08-Mar-2019 11:40:28

TIME_1900 - Time Marked every 60.00 (s)

■ BIEP - Bond Index Event Pips SCMT-CB







■ 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: 08-Mar-2019 11:40:28

ONE: Parameters

Tool Control Parameters

ONE: Parameters

ONE

RST SIGMA REPEAT PASS [5:100]

Software Version

Pass Summary

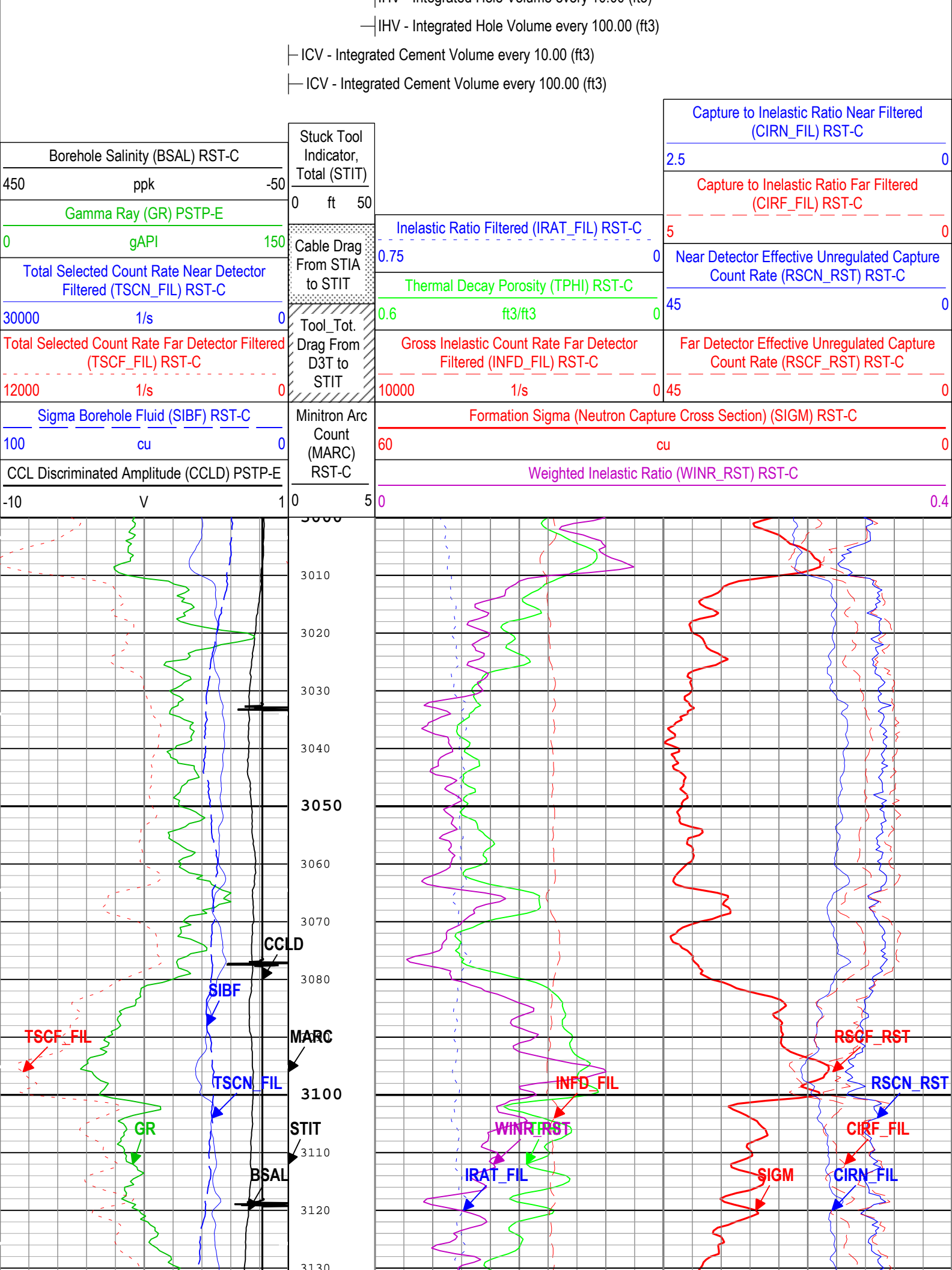
All depths are referenced to toolstring zero

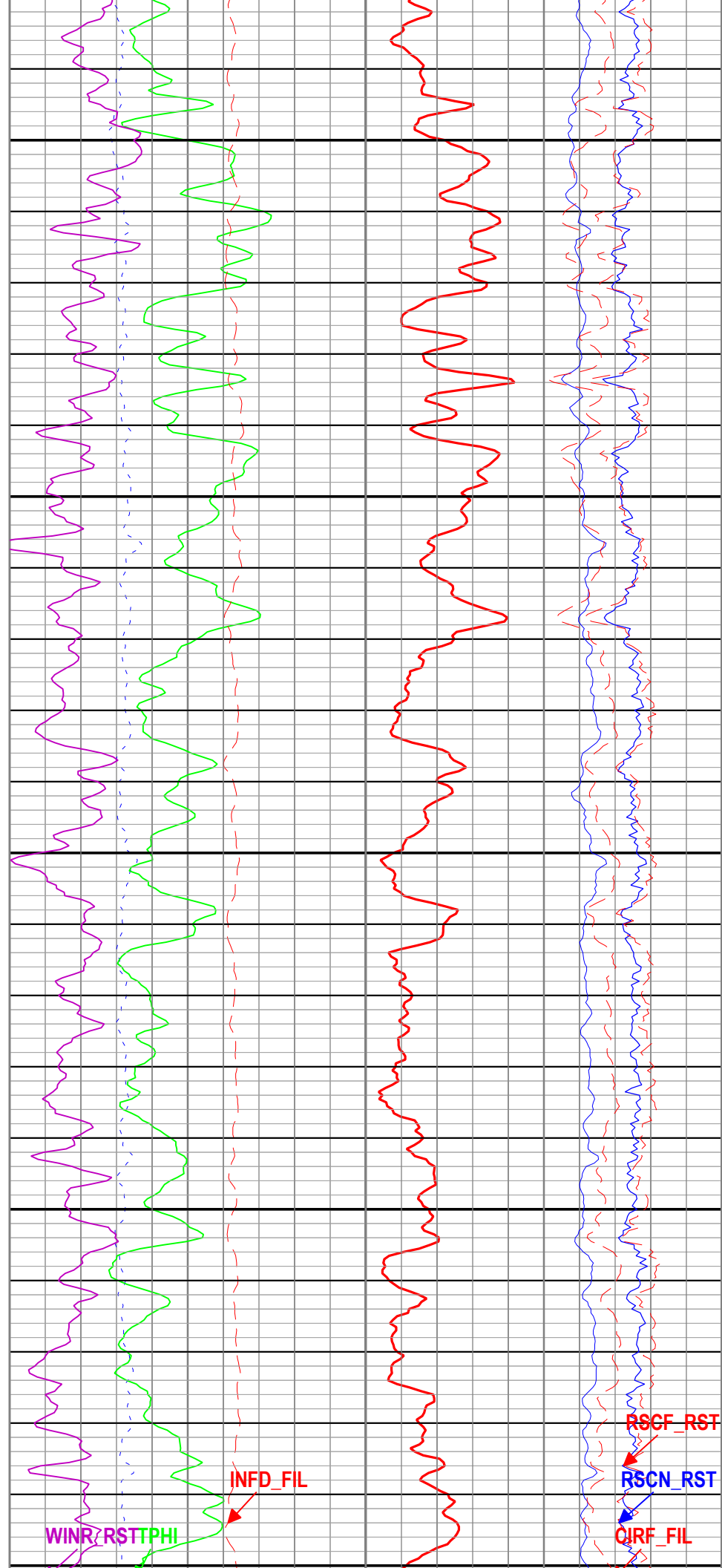
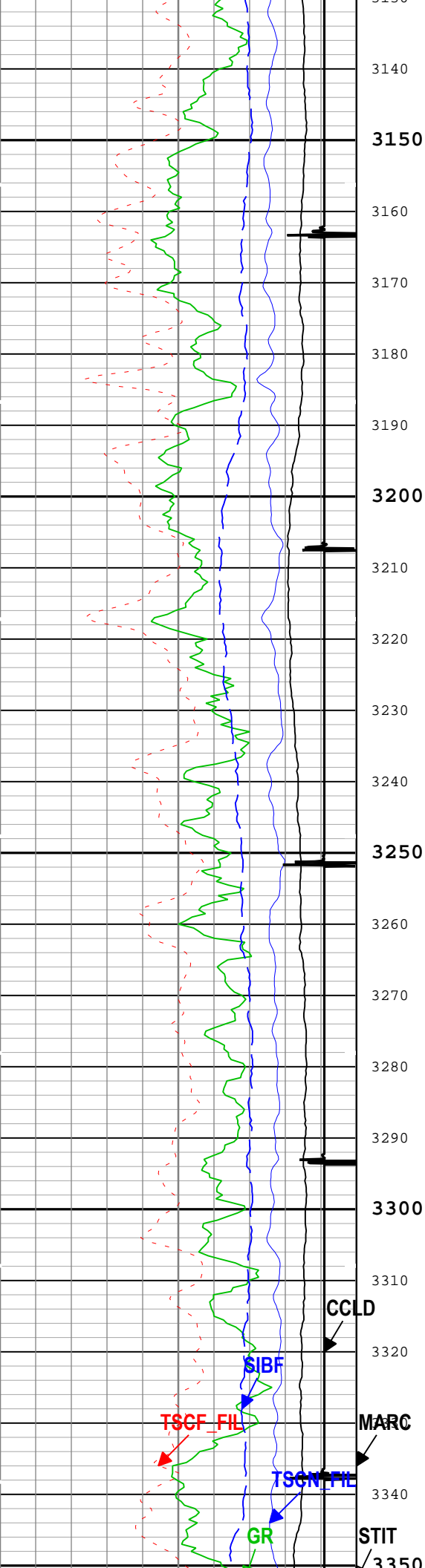
Log

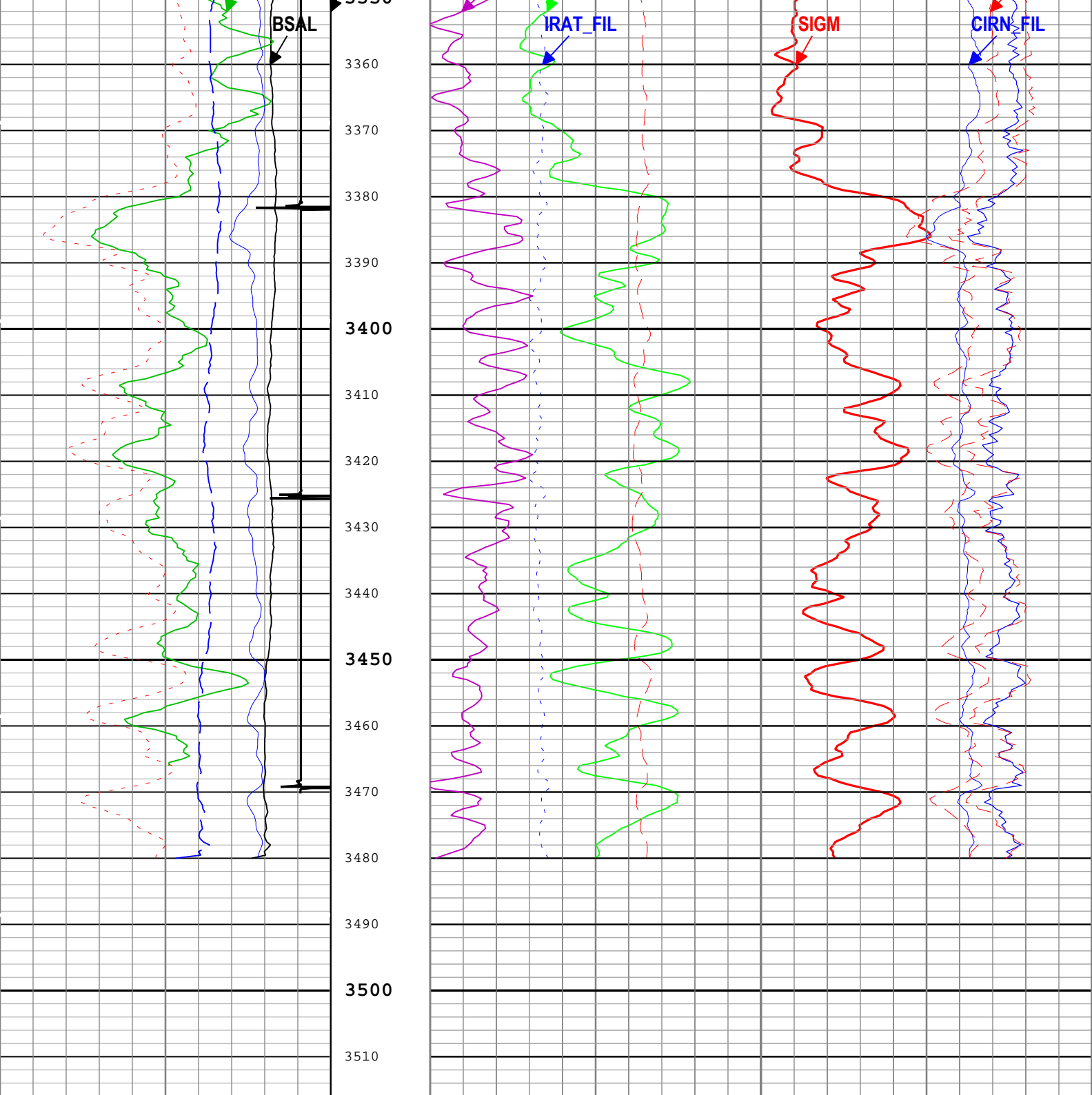
ONE: Log[8]:Up:S004

TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)

—IHV - Integrated Hole Volume every 10.00 (ft3)







Borehole Salinity (BSAL) RST-C			Stuck Tool Indicator, Total (STIT)			Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
450	ppk	-50	0	ft	50	60	cu	0
Gamma Ray (GR) PSTP-E			Cable Drag From STIA to STIT			Weighted Inelastic Ratio (WINR_RST) RST-C		
0	gAPI	150	Tool_Tot. Drag From D3T to STIT			0		0.4
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C			Minitron Arc Count			Inelastic Ratio Filtered (IRAT_FIL) RST-C		
30000	1/s	0				0.75		0
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C						Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C		
12000	1/s	0				2.5		0
Sigma Borehole Fluid (SIBF) RST-C						Thermal Decay Porosity (TPHI) RST-C		
100	cu	0				0.6	ft3/ft3	0
						Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C		
						10000	1/s	0
						Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C		
						5		0
						Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C		

CCL Discriminated Amplitude (CCLD) PSTP-E	Count (MARC) RST-C
-10 V 1	0 5

45	0
Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C	
45	0

<div> <div>ICV - Integrated Cement Volume every 100.00 (ft3)</div> <div>ICV - Integrated Cement Volume every 10.00 (ft3)</div> <div>IHV - Integrated Hole Volume every 100.00 (ft3)</div> <div>IHV - Integrated Hole Volume every 10.00 (ft3)</div> </div>
<div> <div>TIME_1900 - Time Marked every 60.00 (s)</div> <div>TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)</div> </div>

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: 08-Mar-2019 11:40:31

Channel Processing Parameters

ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	8.75	in
BSAL	Borehole Salinity	Borehole	0	ppm
BSALOPT	Borehole Salinity Option	RST-C	Unknown	
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	

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	

Well: NPR 23D-3 596
Field: NPR
County: GARFIELD
State: COLORADO

CEMENT BOND LOG

RST SIGMA LOG

GAMMA RAY - COLLAR LOCATOR LOG