

Company: Caerus Operating LLC

Well: Puckett 15A-26

Field: Grand Valley

County: Garfield State: Colorado

Cement Bond Log
RST Sigma Log
Gamma Ray - Collar Locator LogCounty: Garfield
Field: Grand Valley
Location: Mesa F26
Well: Puckett 15A-26
Company: Caerus Operating LLC

Mesa F26	Location:		Elev.:		K.B.	8352.00 ft
	Permanent Datum:	Ground Level	Elev.:	G.L.	8322.00 ft	
	Log Measured From:	Kelly Bushing	30.00 ft	D.F.	8352.00 ft	
	Drilling Measured From:	Kelly Bushing				
API Serial No.	Section:	Township:	Range:			
05045234070000	26	6S	97W			

Logging Date 23-Jul-2018

Run Number One

Depth Driller 9235.00 ft

Schlumberger Depth 9061.50 ft

Bottom Log Interval 9061.50 ft

Top Log Interval 2300.00 ft

Casing Fluid Type 2% KCL

Salinity

Density 8.49 lbm/gal

Fluid Level 8.00 ft

BIT/CASING/TUBING STRING

Bit Size 8.75 in

From 2472.60 ft

To 9235.00 ft

Casing/Tubing Size 4.5 in

Weight 11.6 lbm/ft

Grade P110

From 0.00 ft

To 9235.00 ft

Max Recorded Temperatures 215 degF

Logger on Bottom 23-Jul-2018

Unit Number 3108

Recorded By Justin Ray

Witnessed By Ryan Tompkins

Disclaimer

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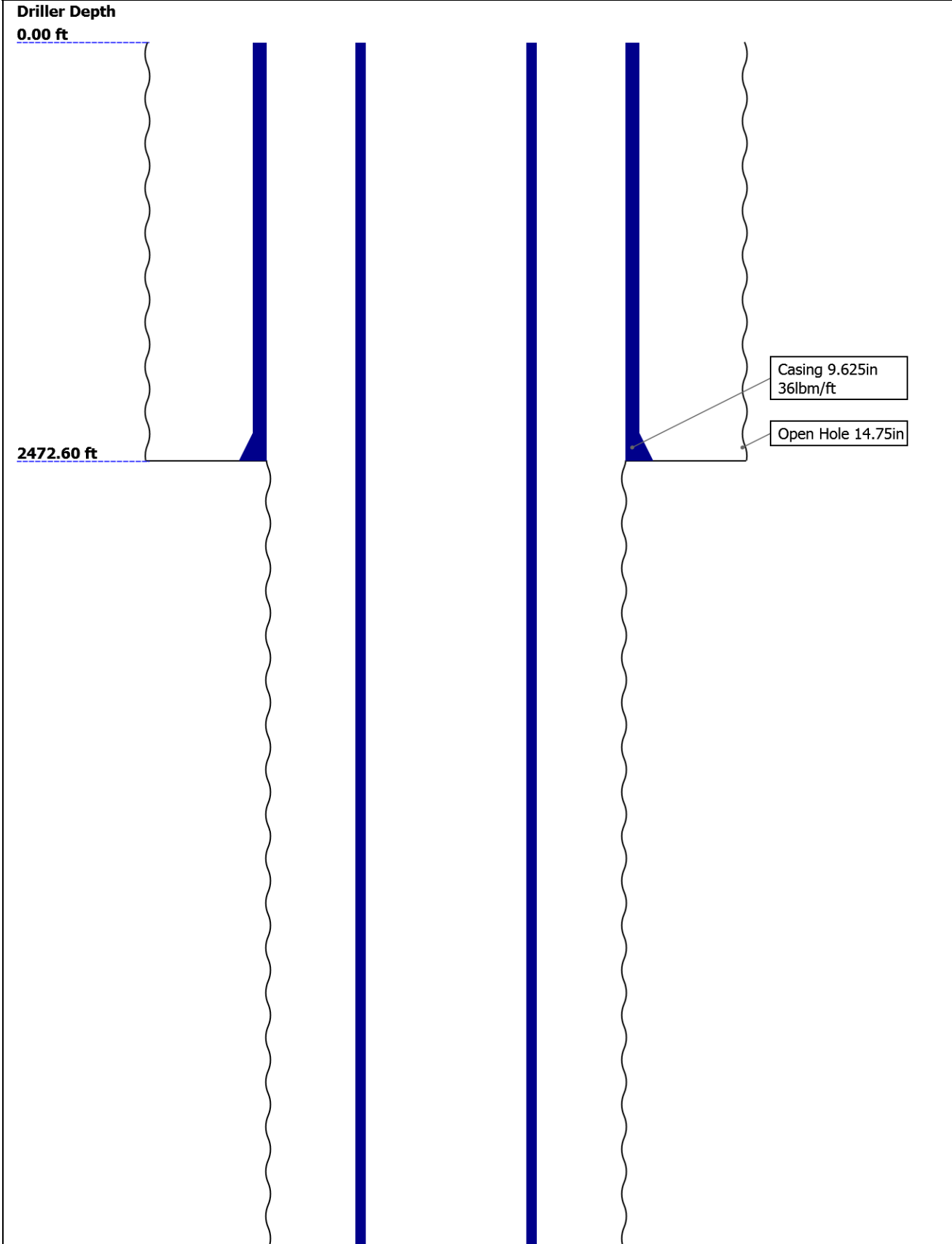
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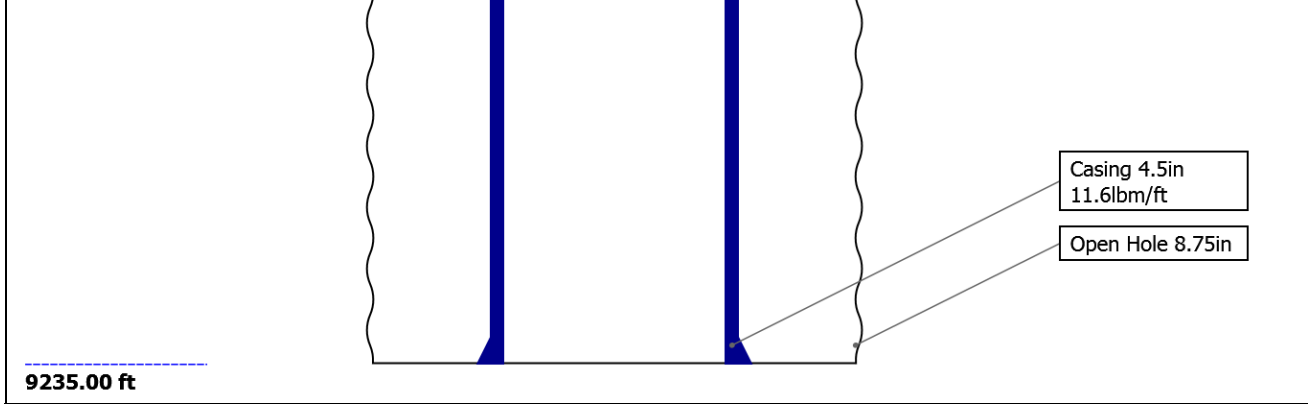
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Well Sketch



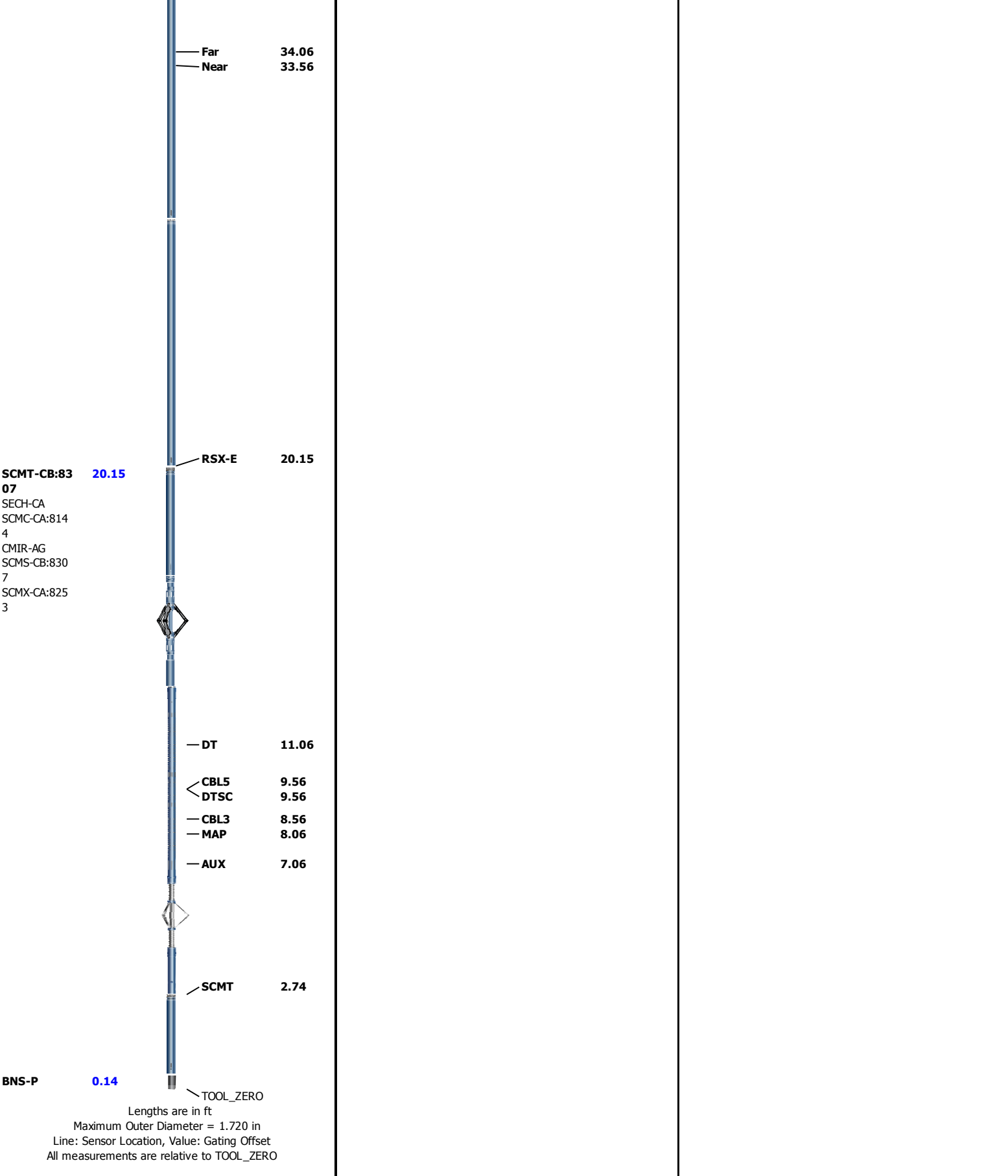


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	14.75	8.75				
Top Driller (ft)	0	2472.6				
Top Logger (ft)	0	2472.6				
Bottom Driller (ft)	2472.6	9235				
Bottom Logger (ft)	2472.6	9235				
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)	2472.6	9235				
Bottom Logger (ft)	2472.6	9235				

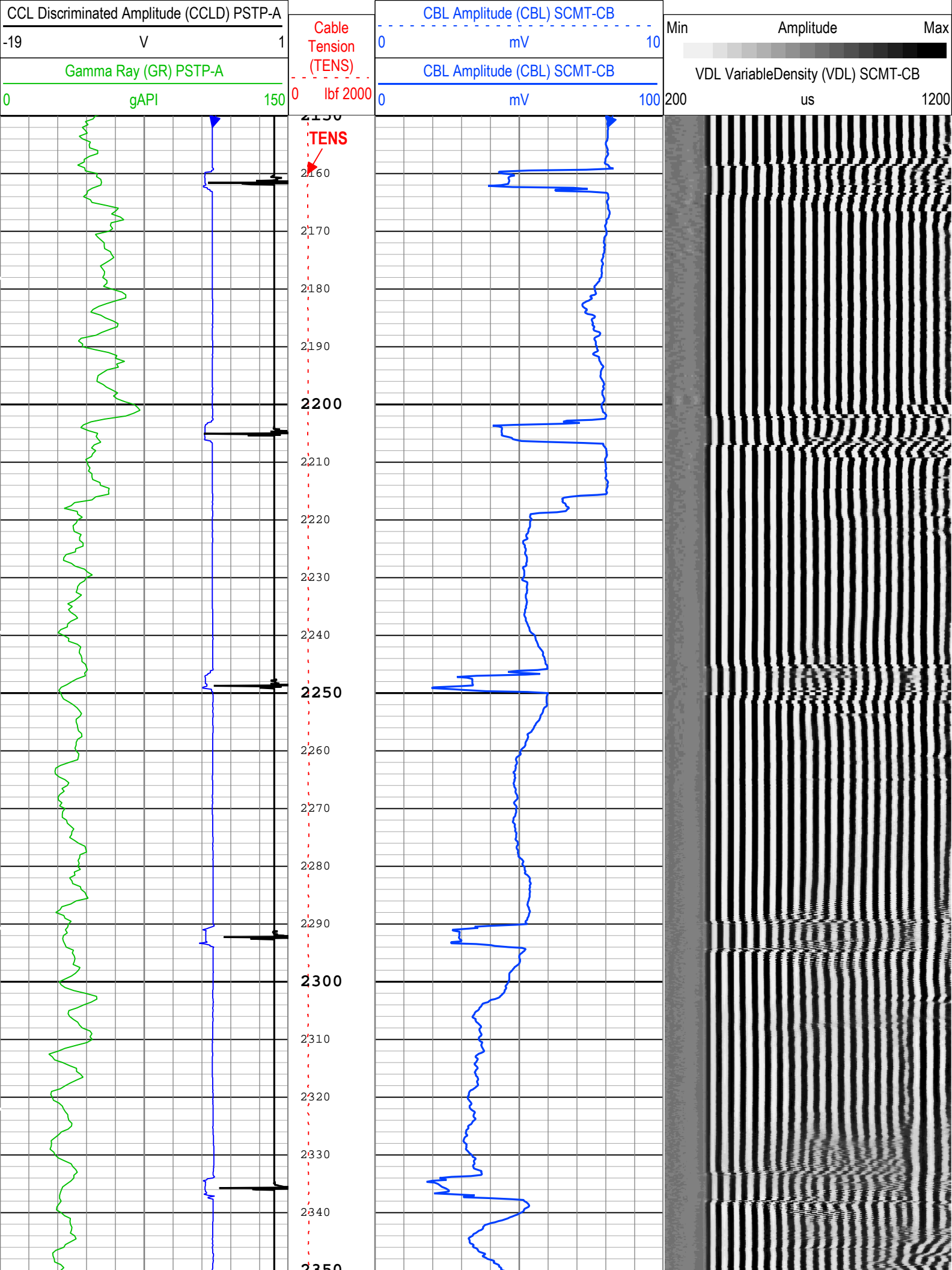
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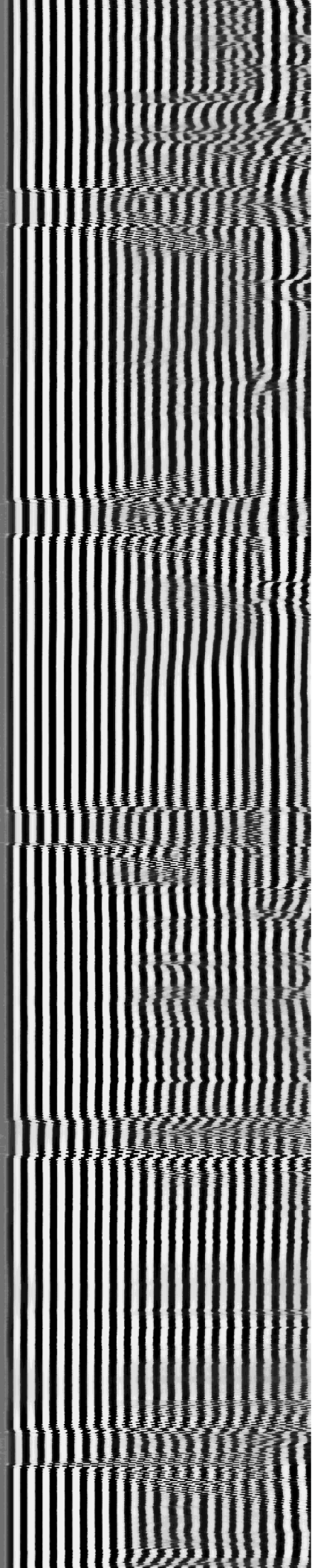
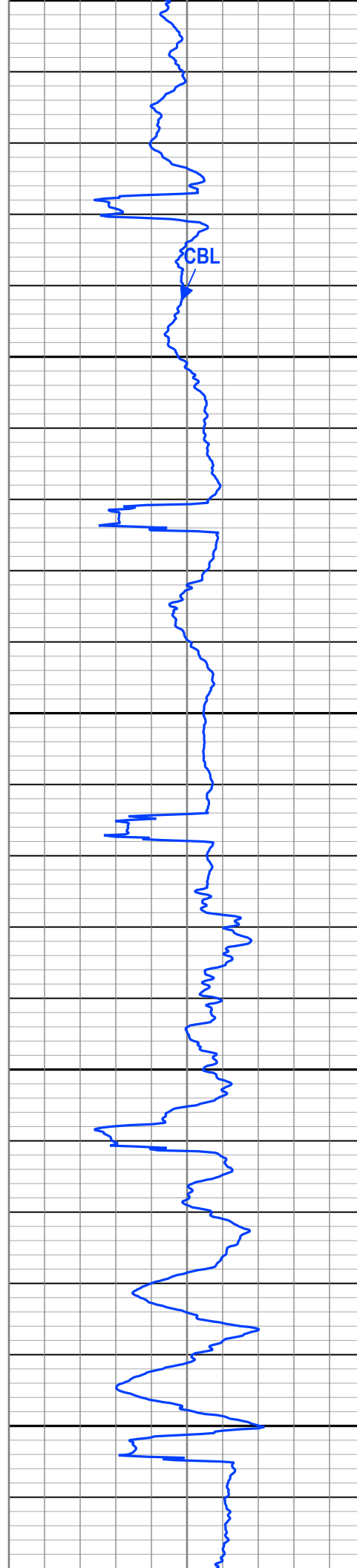
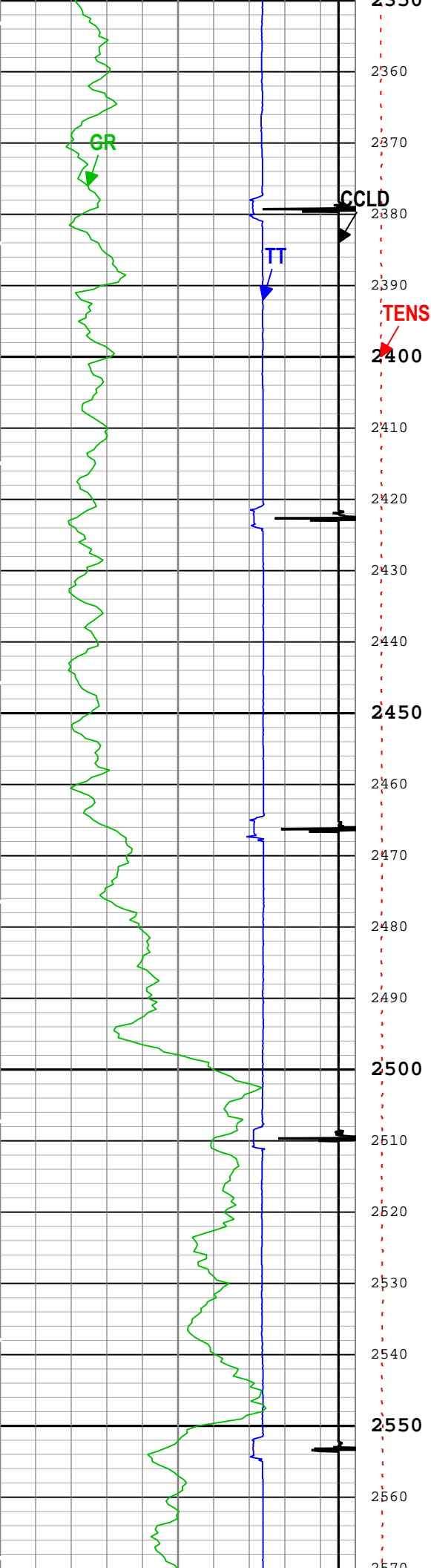
One: Toolstring				One: Remarks		
Equip name	Length	MP name	Offset	Tool ran as per Tool Sketch.		
PEH-E	53.4			Gemcos used for Tool Centralization.		
				Max recorded temp of 215 deg F		
AH-38	51.72			Schlumberger TD tagged at 9061.5 ft		
PSTP-A:378	51.44			Thanks for choosing Schlumberger!		
1						
PSC-A		GR	47.74			
PSTC-A:3781		PSTC	47.44			
PBMS-A:3781		PSTC Tool	0.00			
Sapphire 10kP		String Bot				
SI:3781		tom				
		Temperatu	44.65			
		re				
		Sapphire P	44.54			
		ressure				
		CCL	43.92			
		PBMS	43.17			
RST-C:296	43.17					
RSCH-A:530						
RSC-E:544						
RSS-A:222						
MNTR-F:1356						
RSXH-A:288						
RSX-E:296						
		RSC-E	36.82			

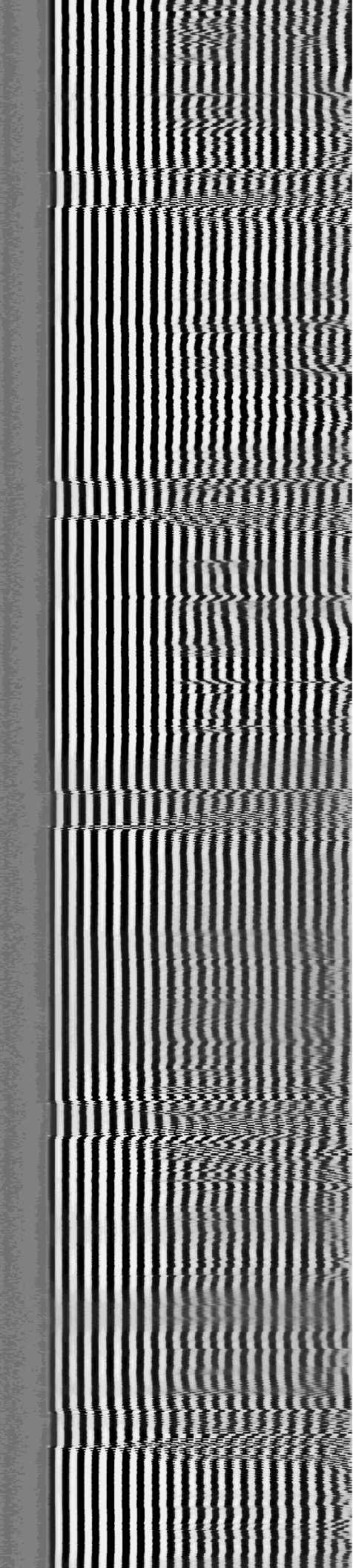
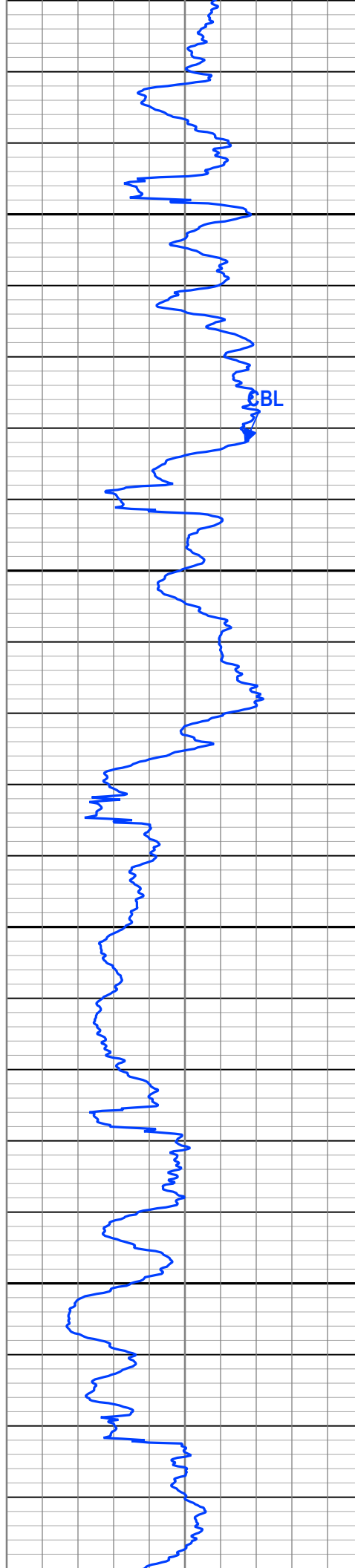
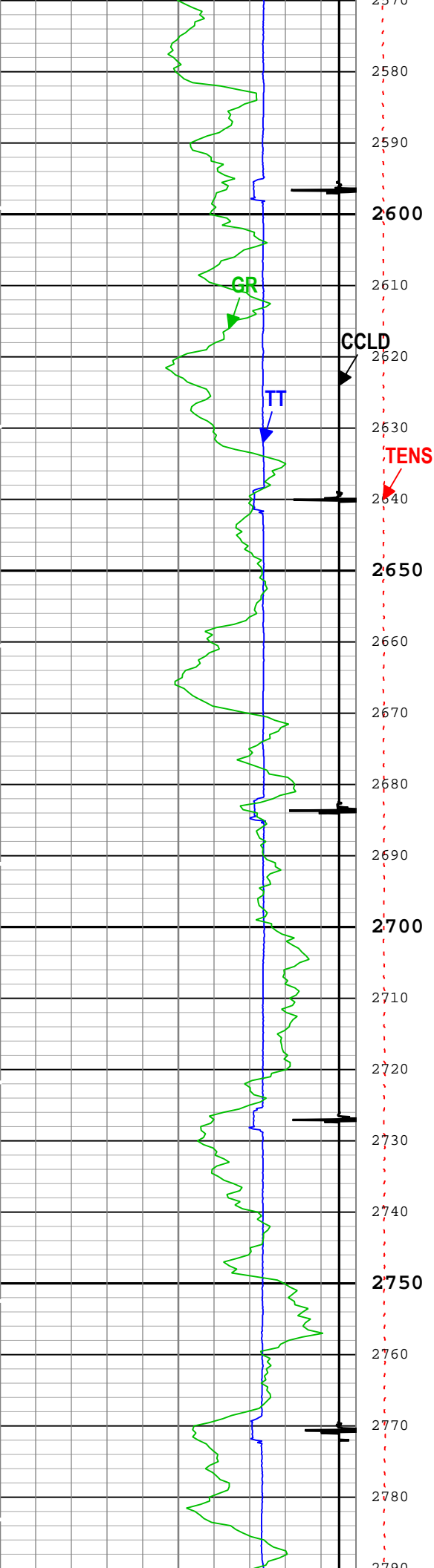


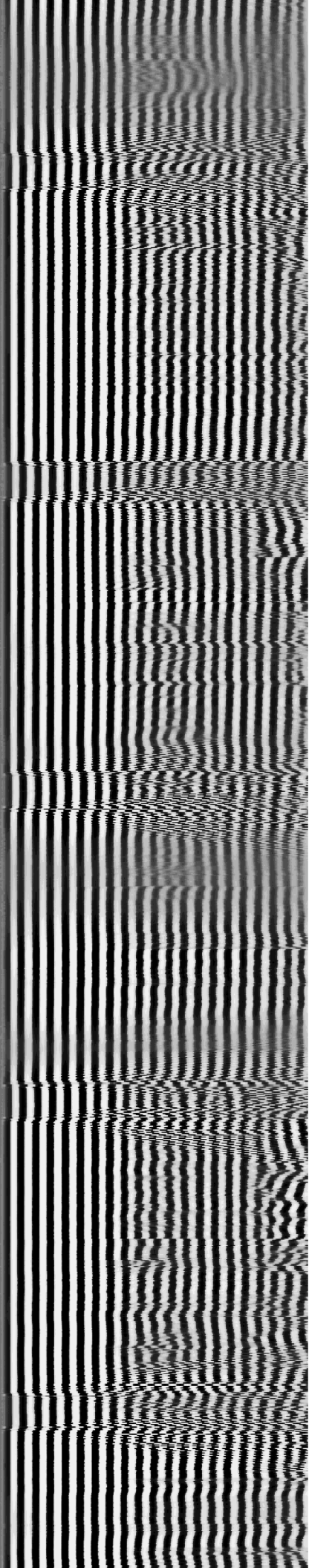
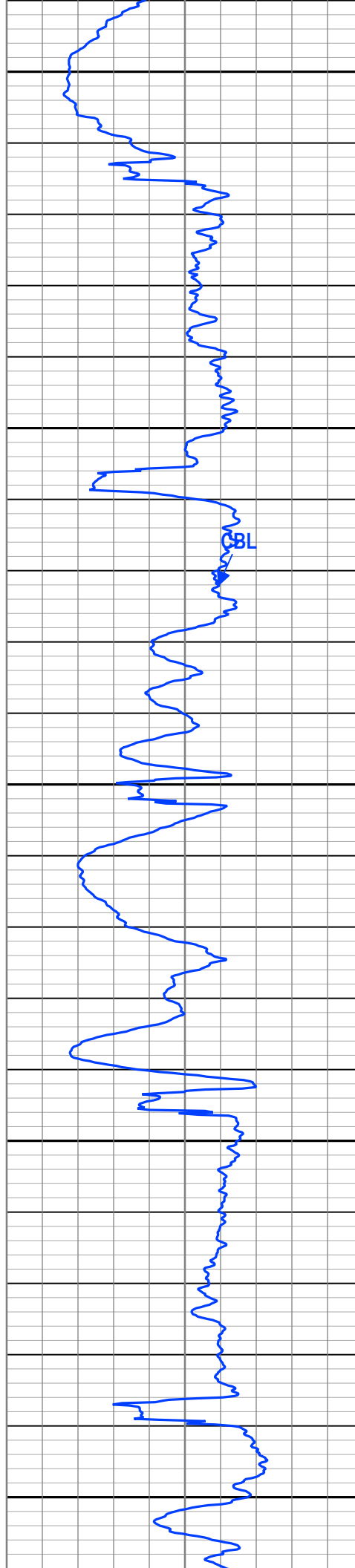
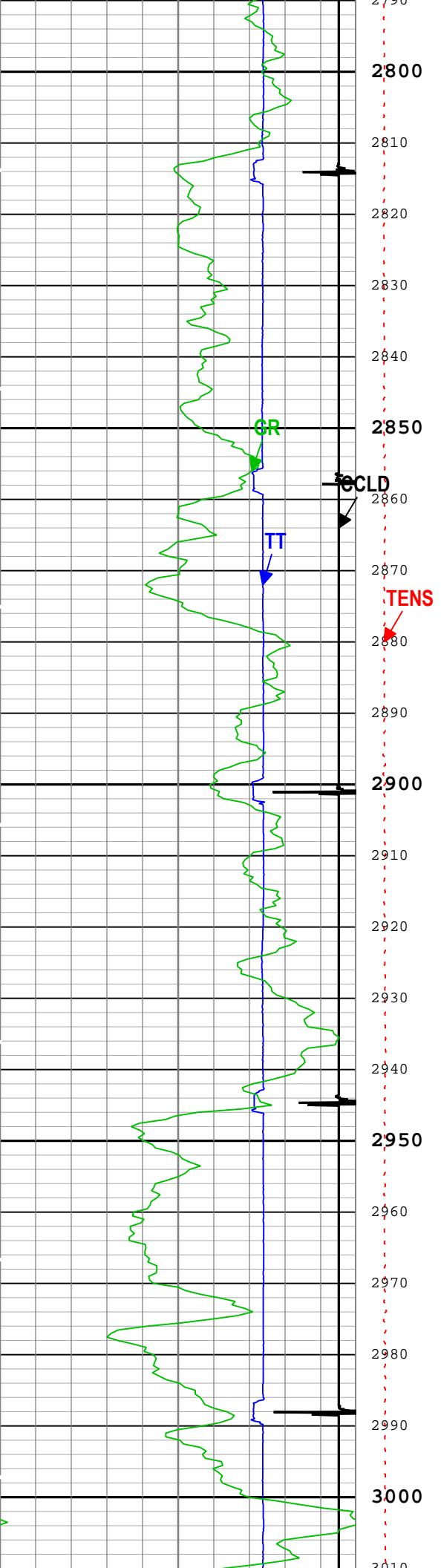
Depth Summary			
One			
Depth Measuring Device			
Type	IDW-B		
Serial Number	5979		
Calibration Date	09-Oct-2017		

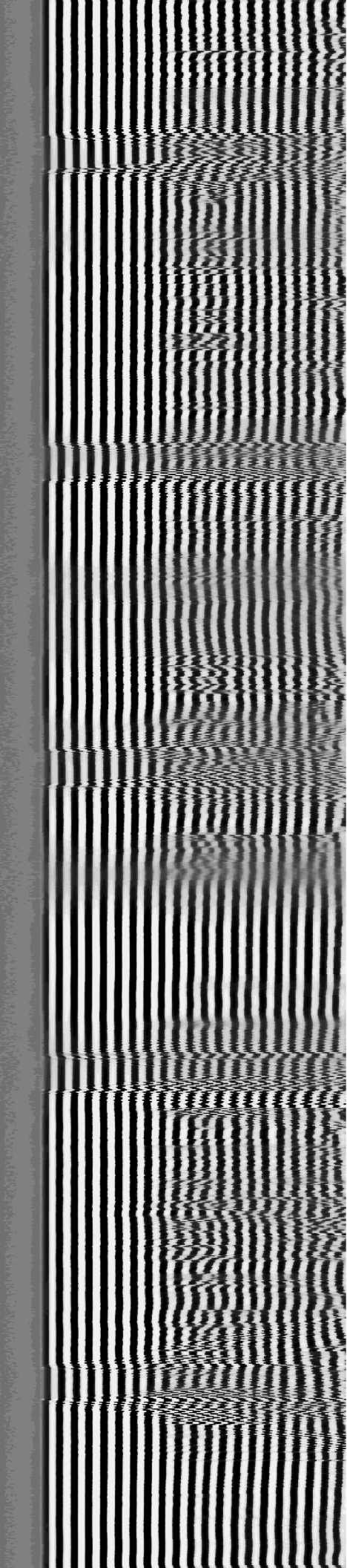
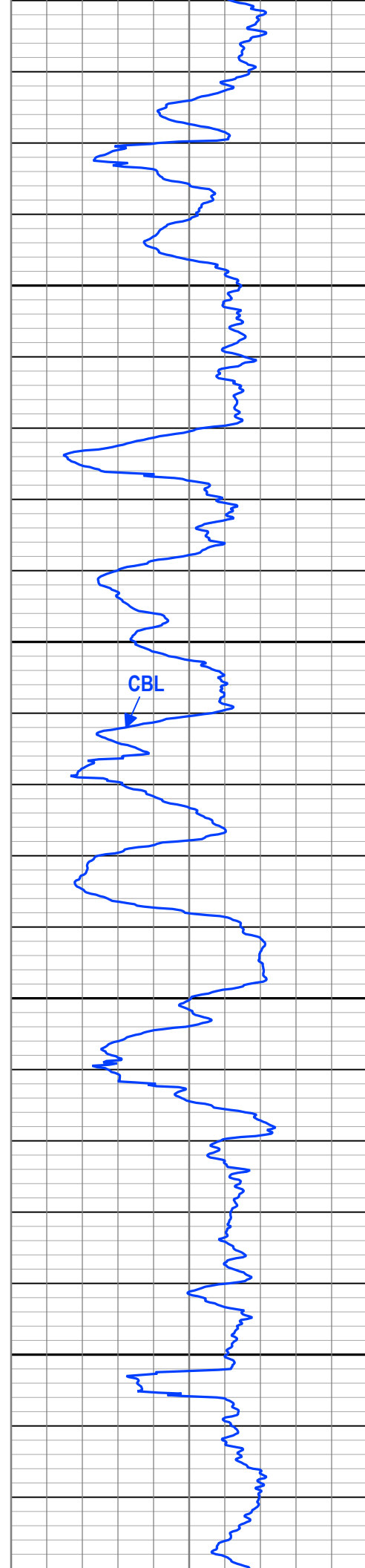
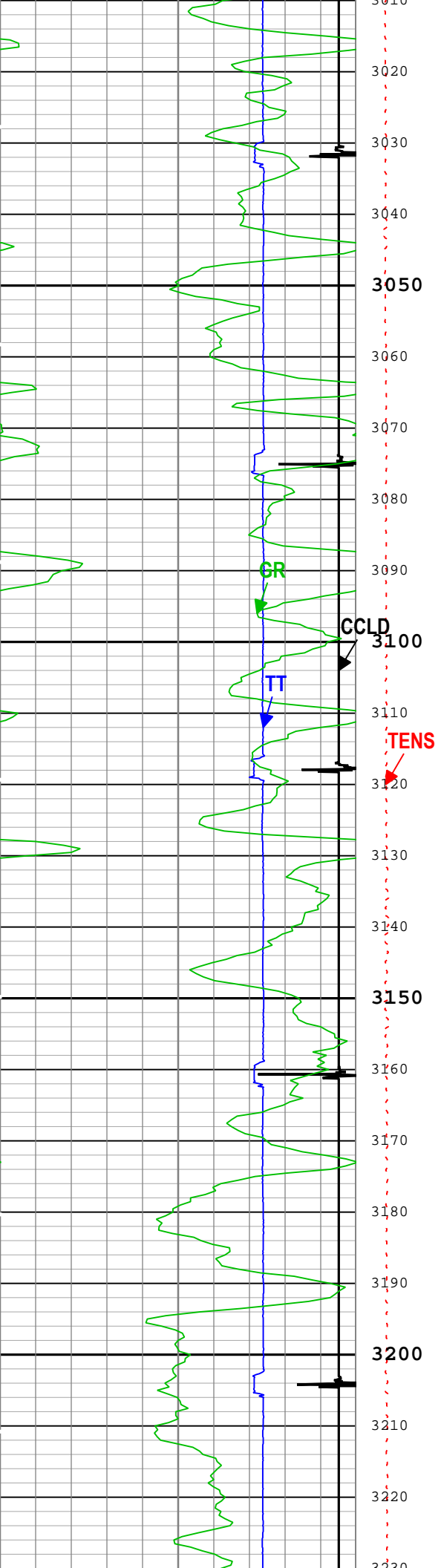
Transit Time for CBL (TT) SCMT-CB		
400	us	200

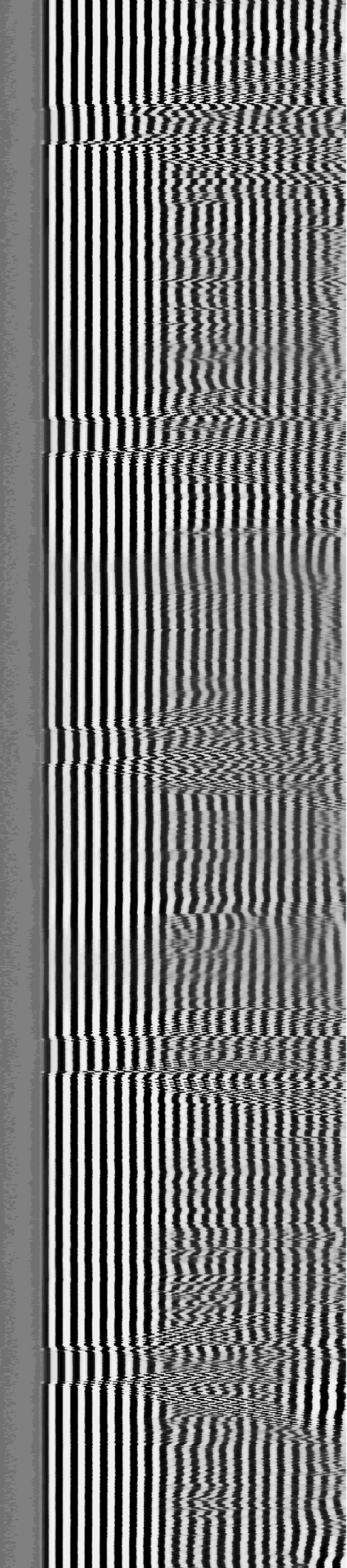
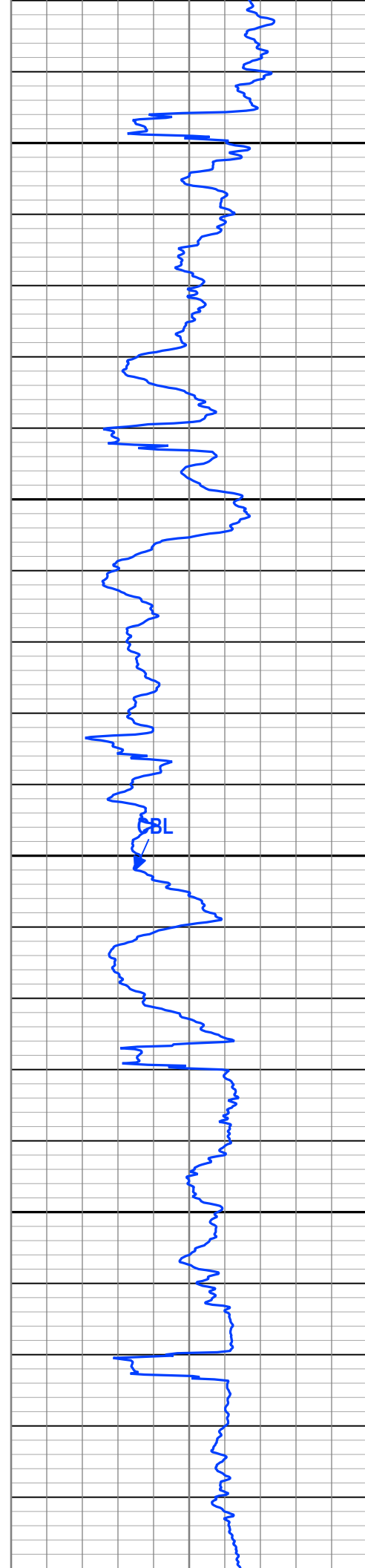
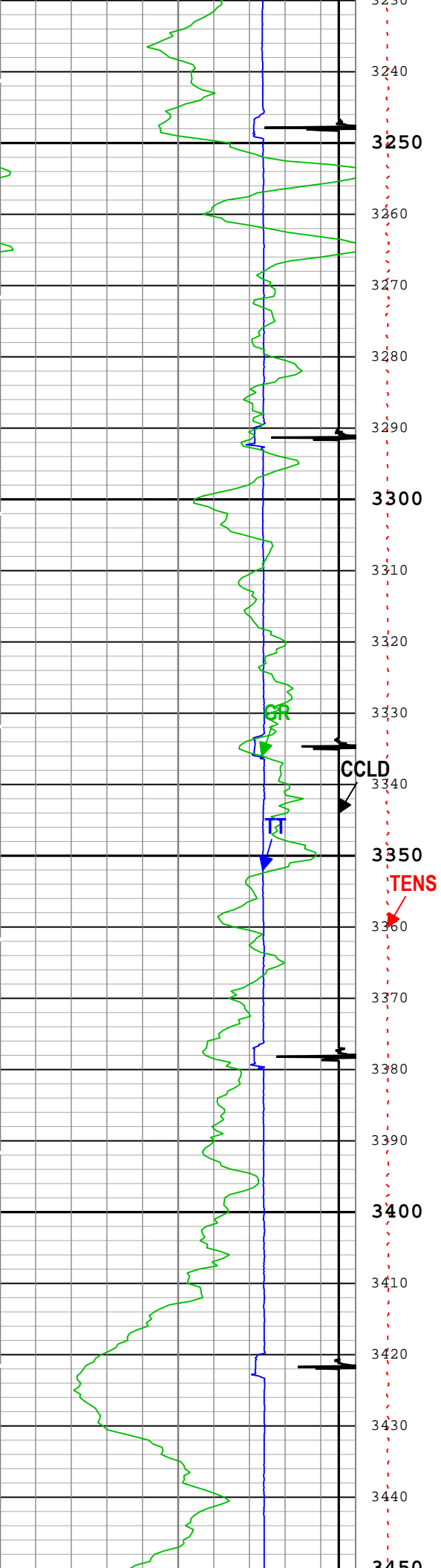


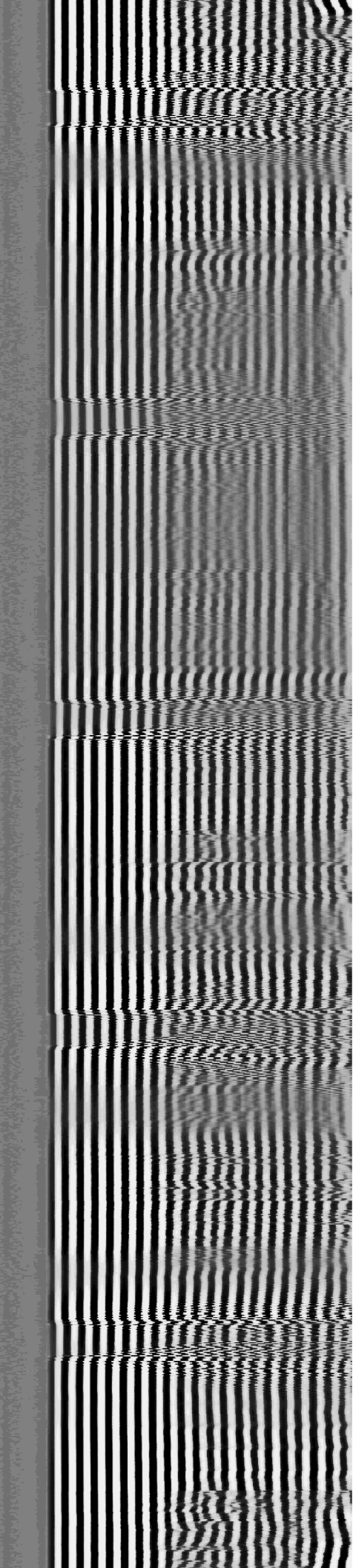
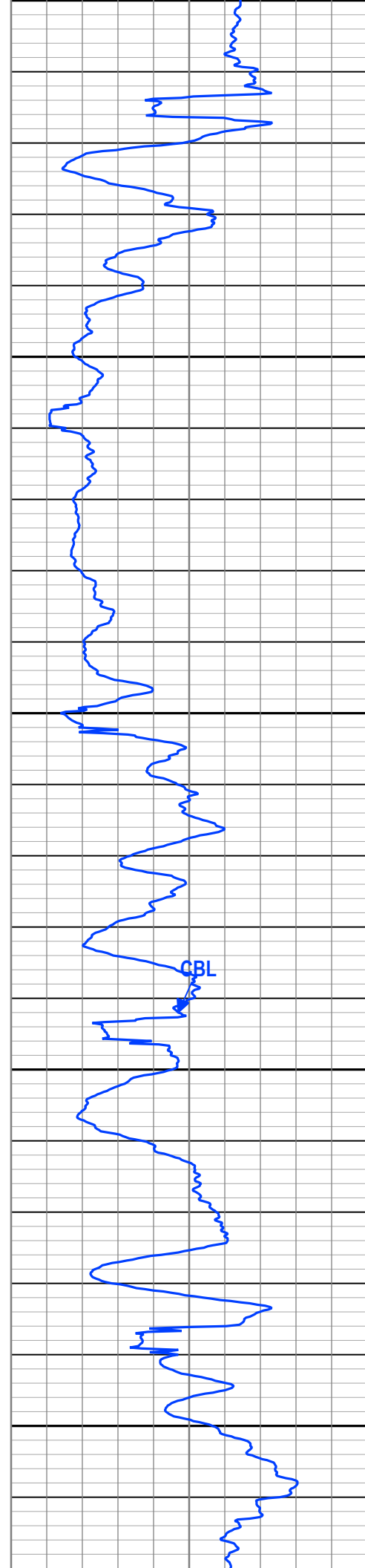
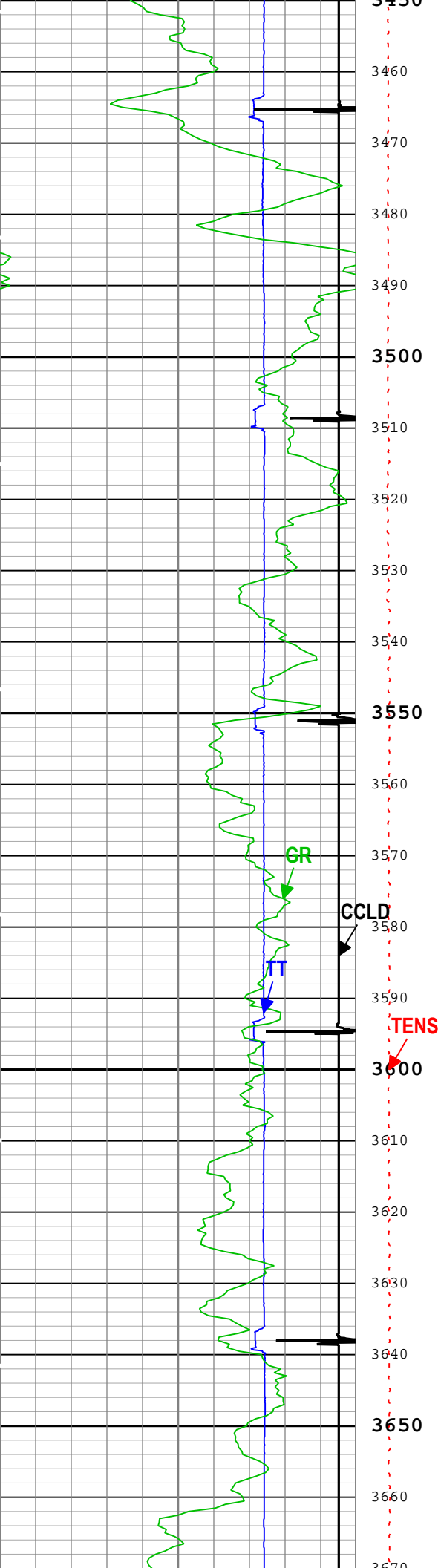


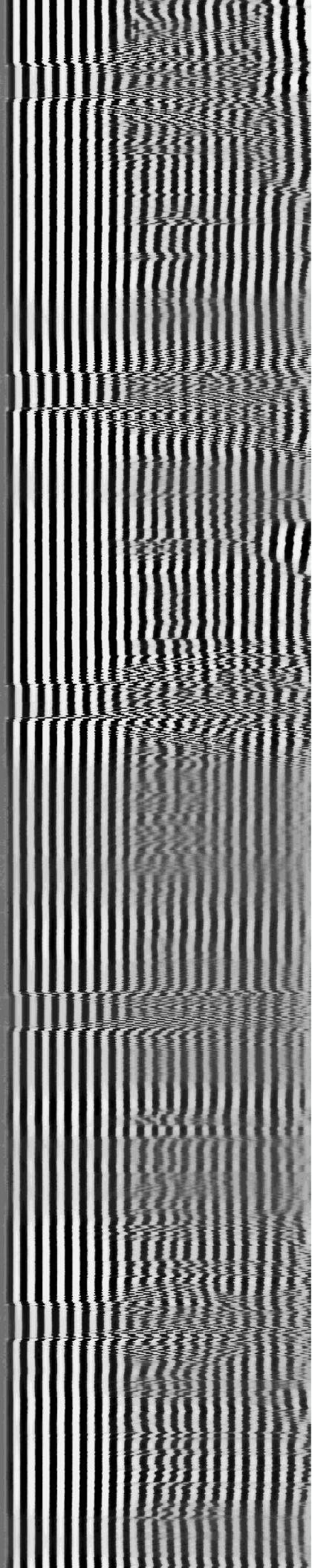
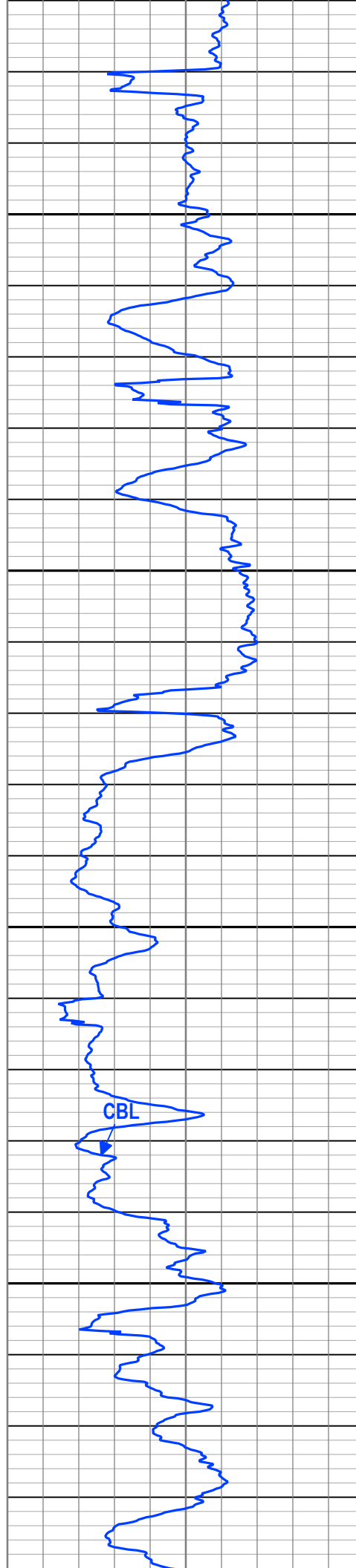
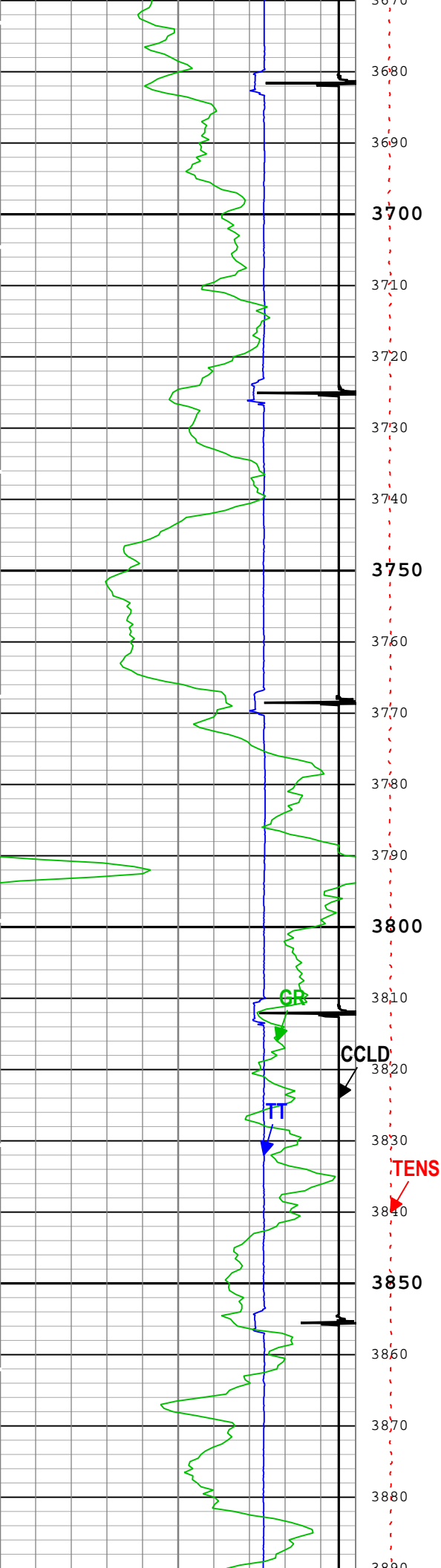


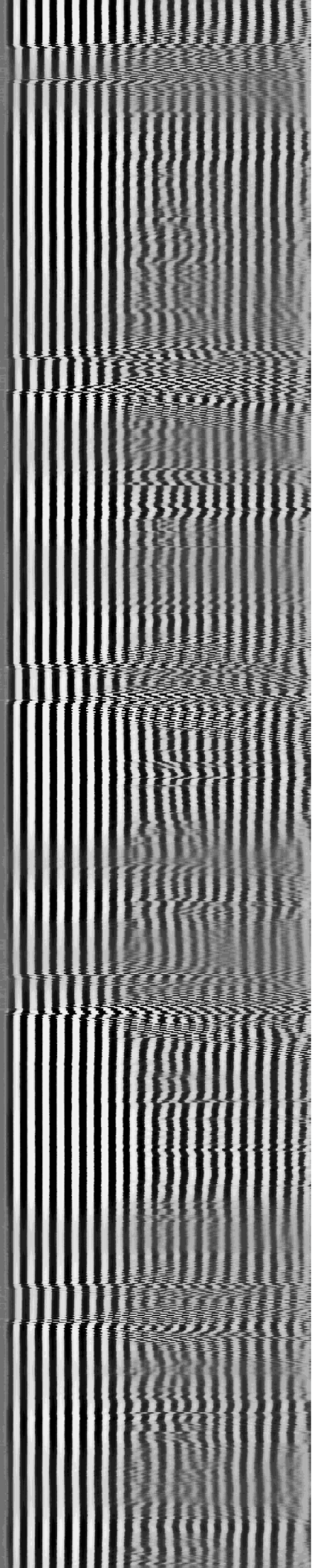
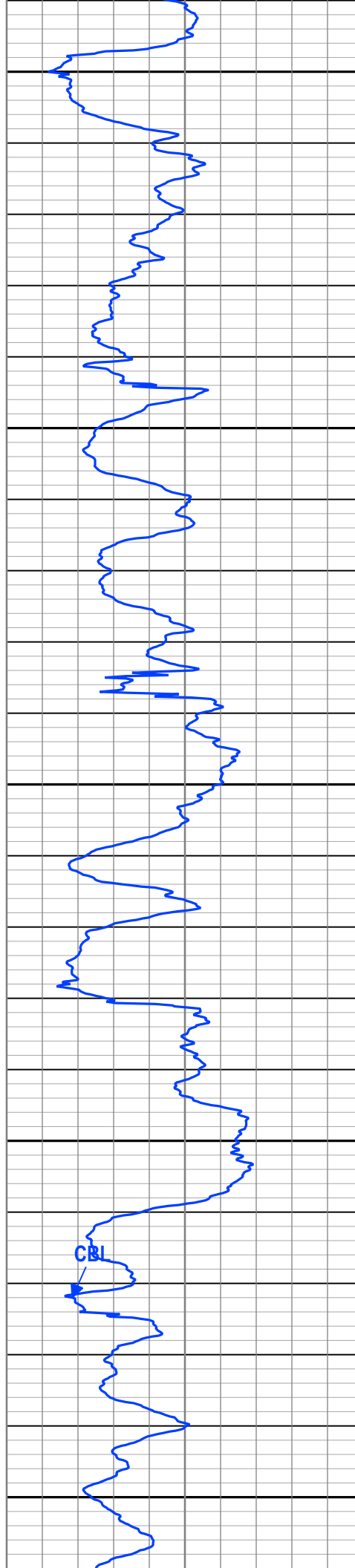
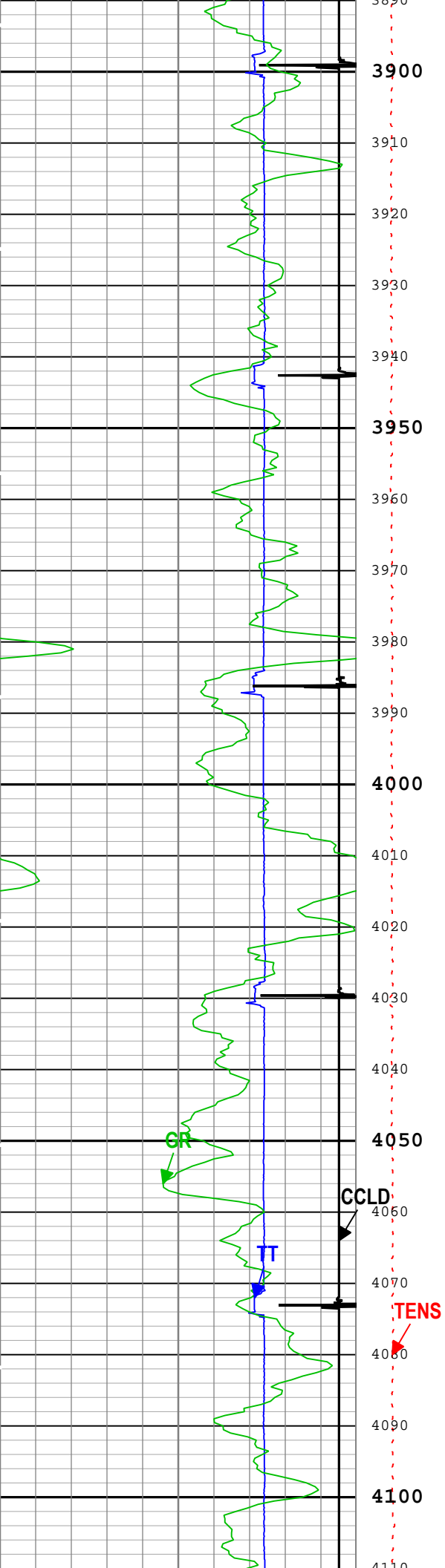


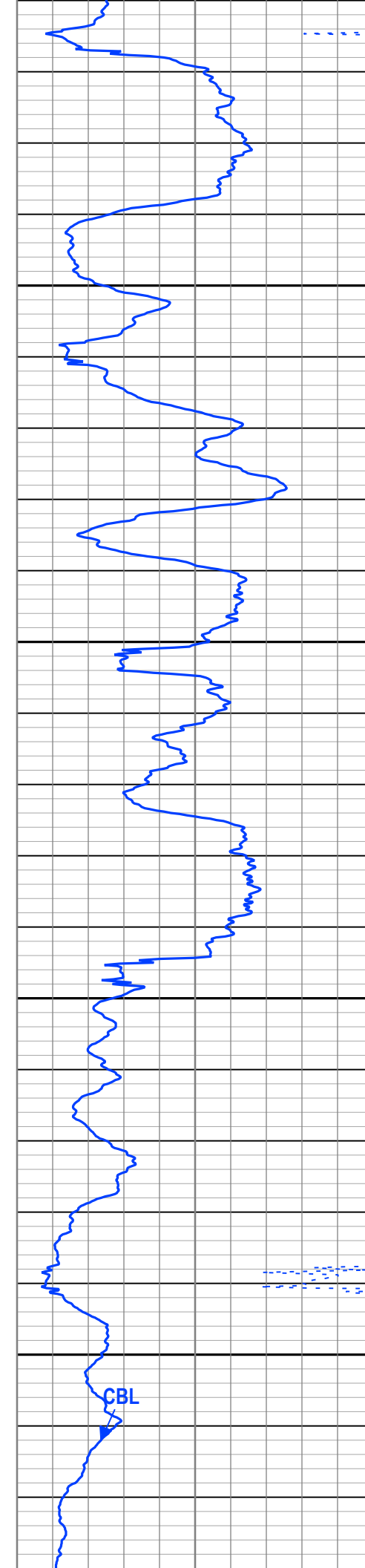
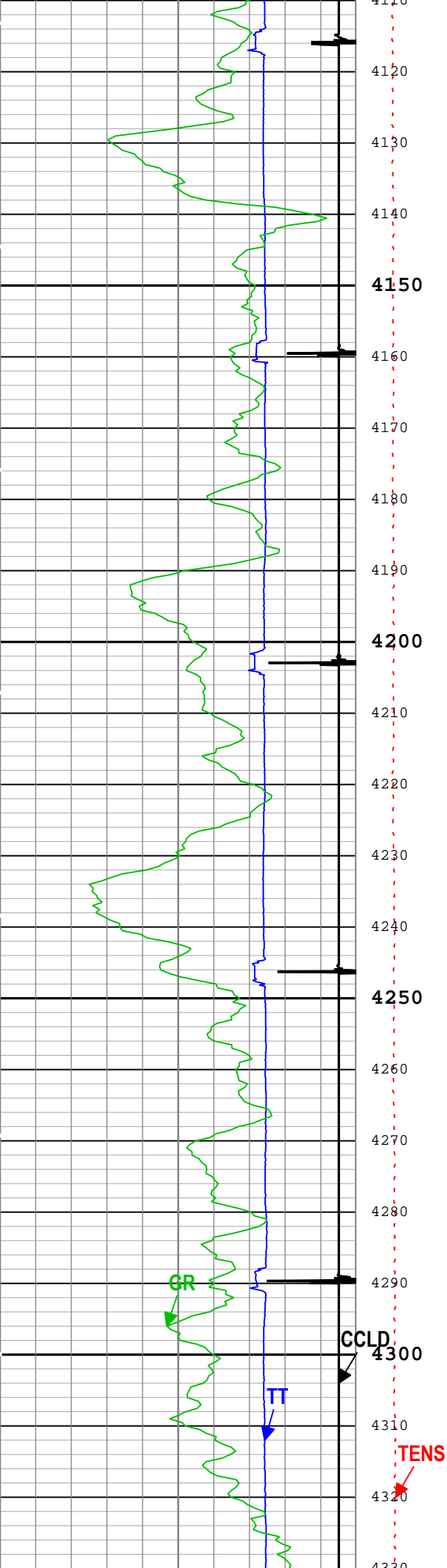


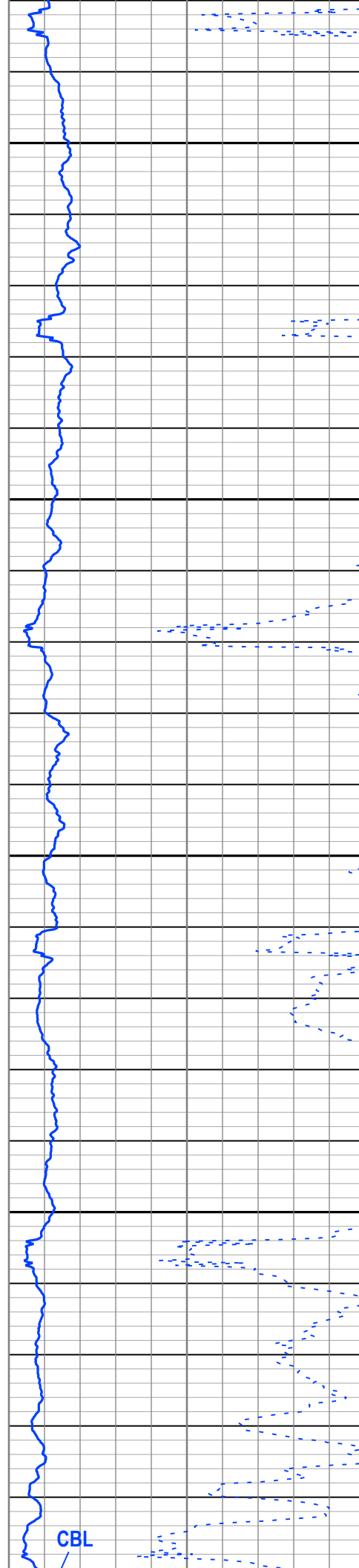
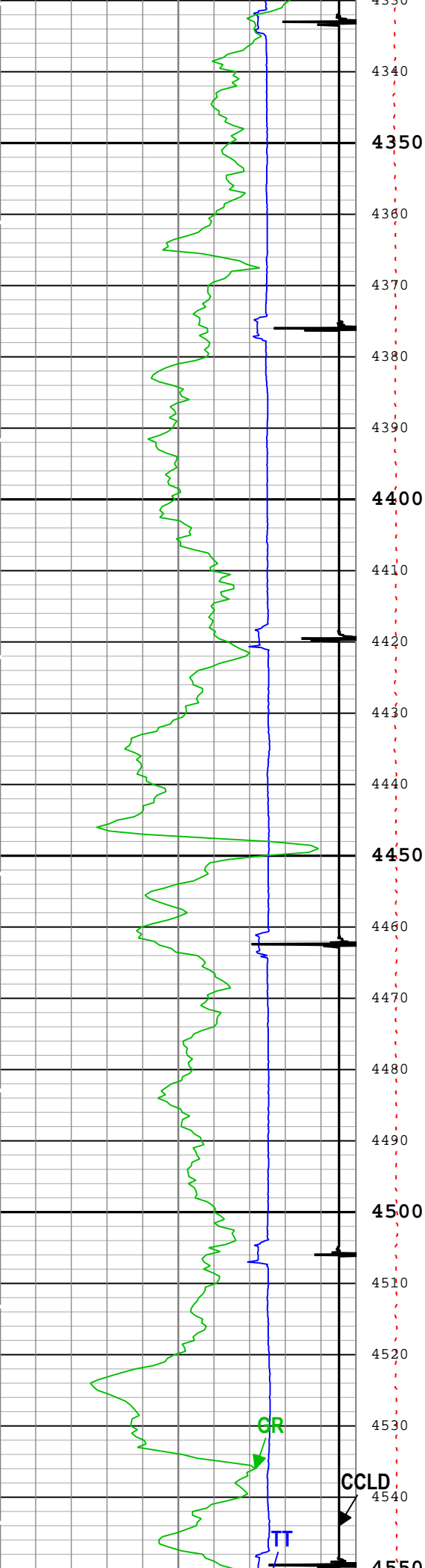


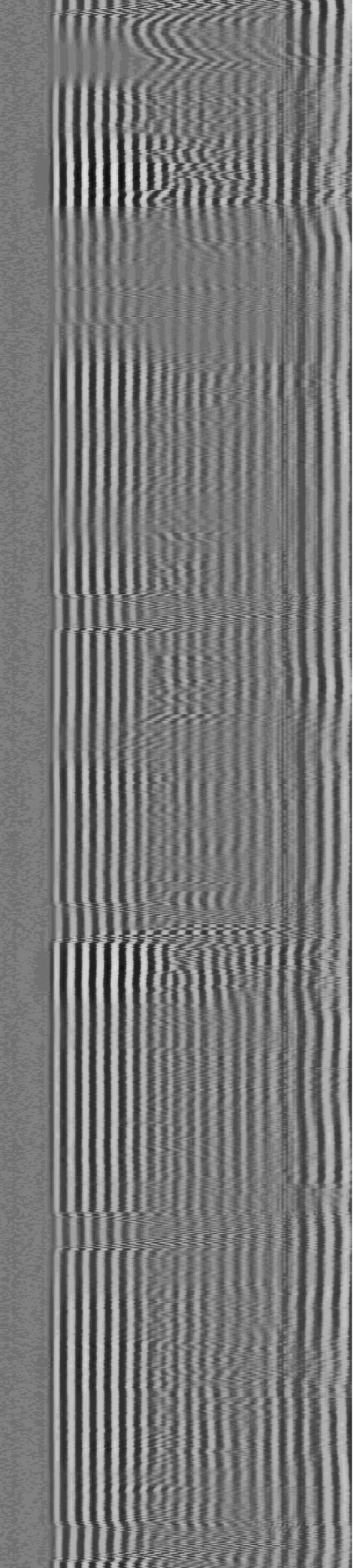
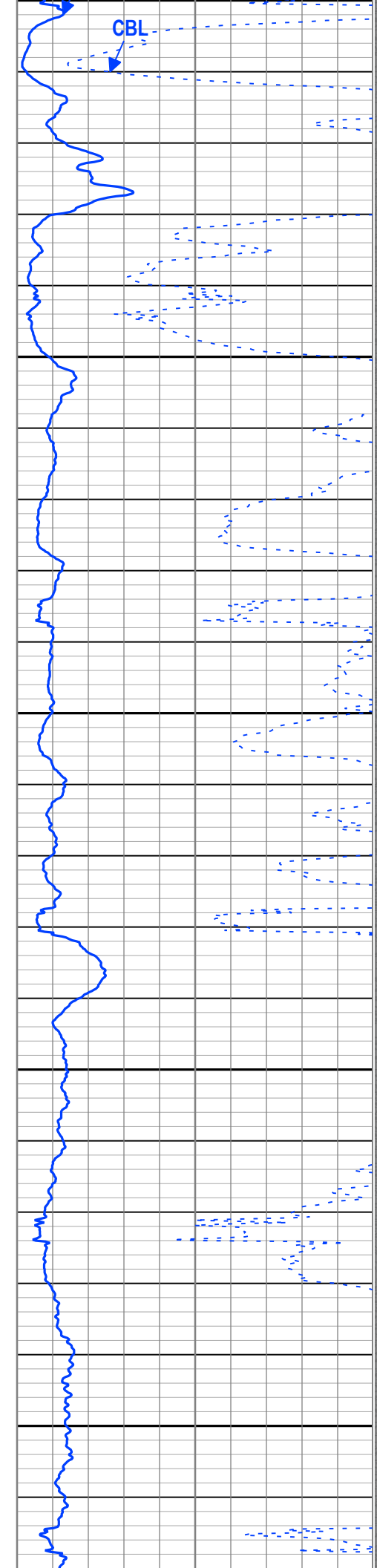
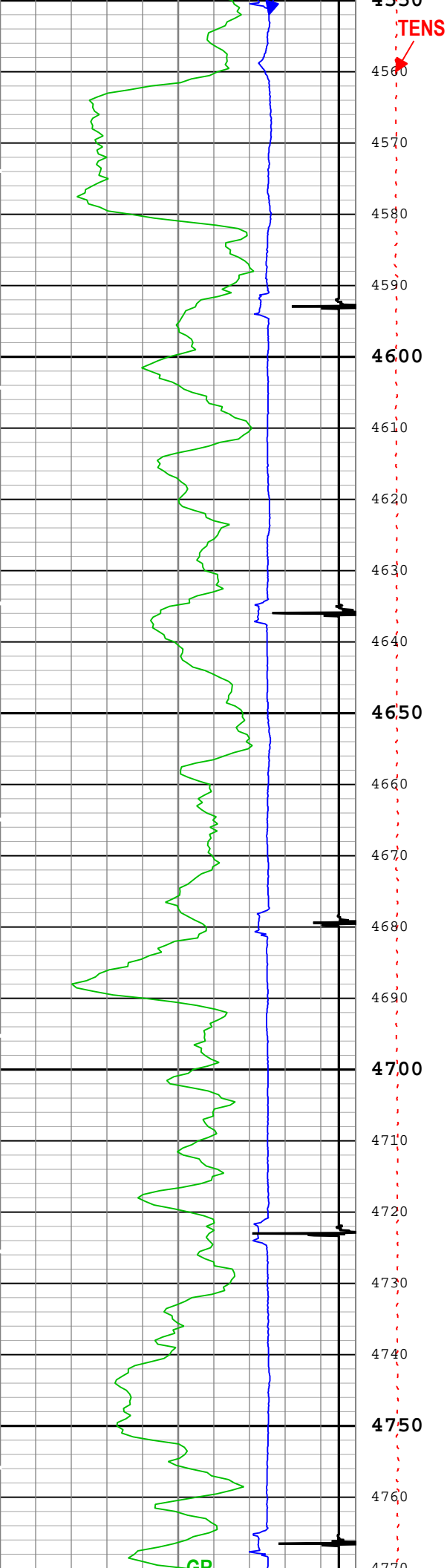


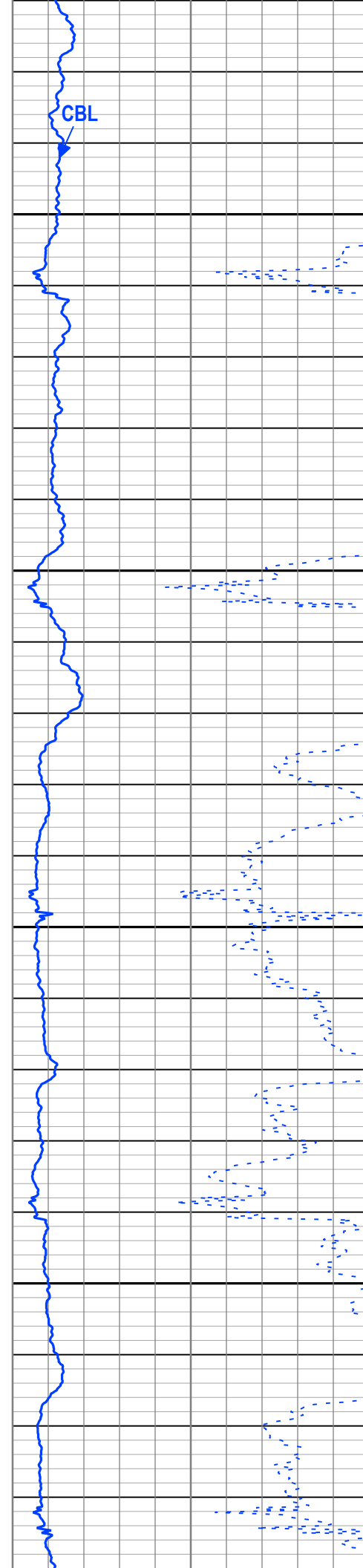
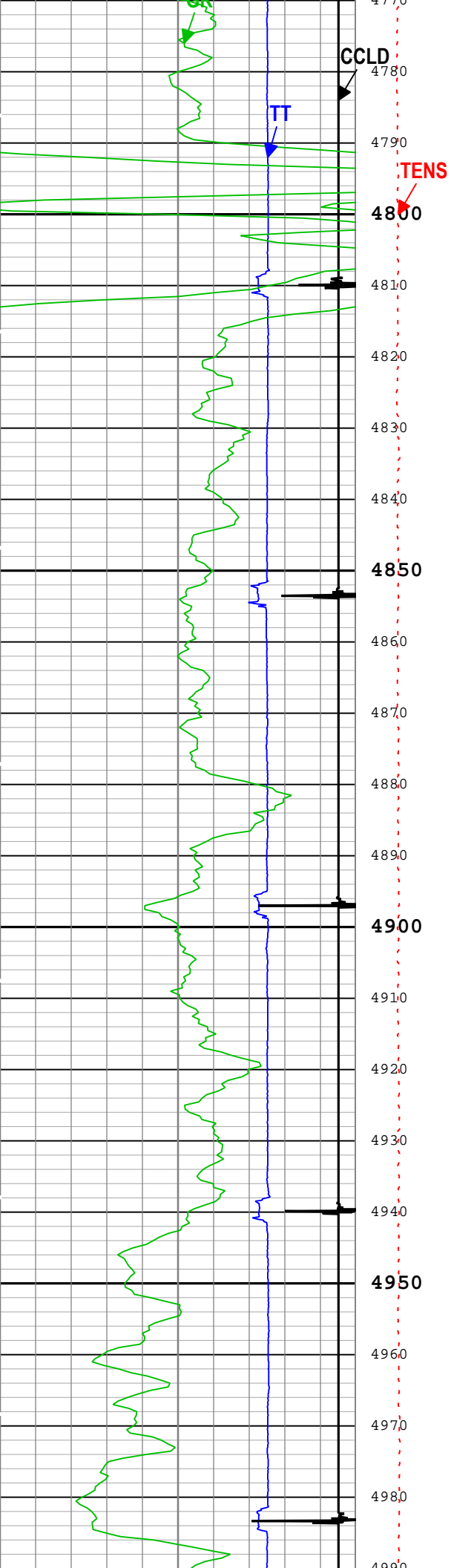


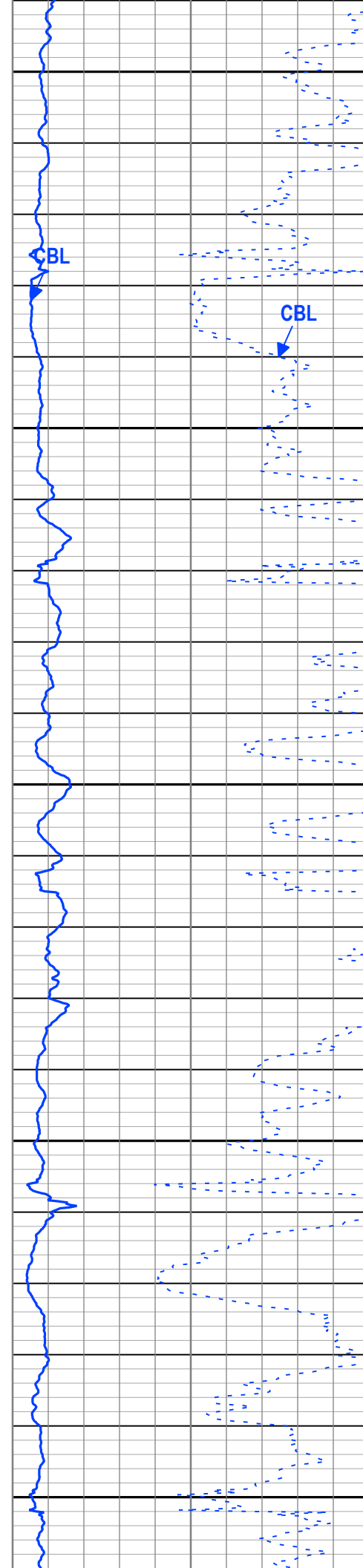
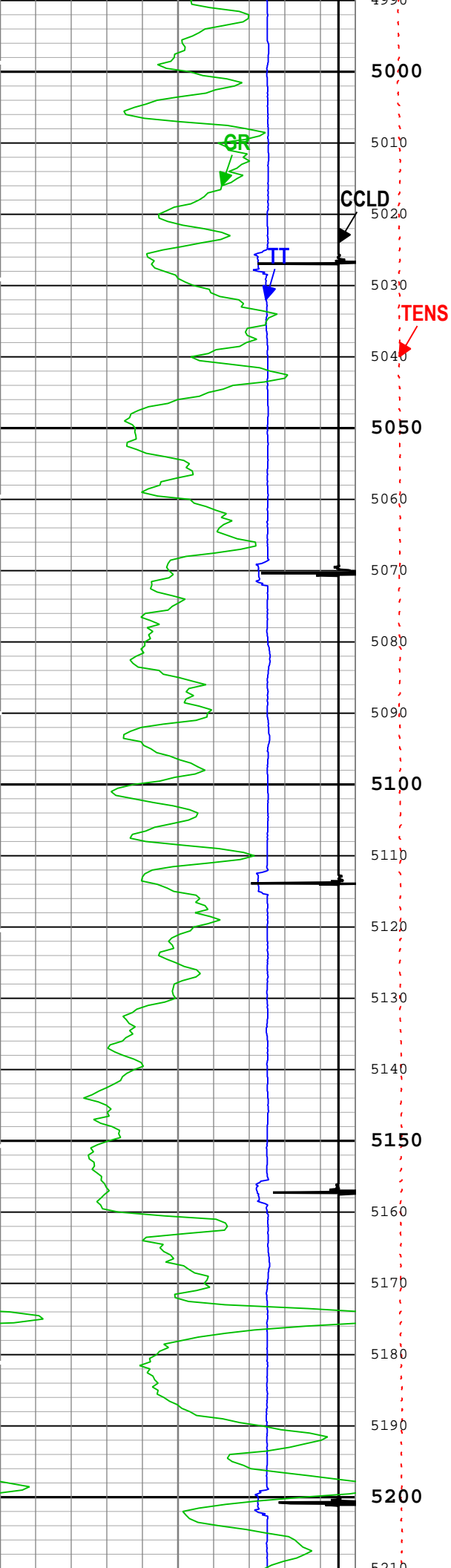


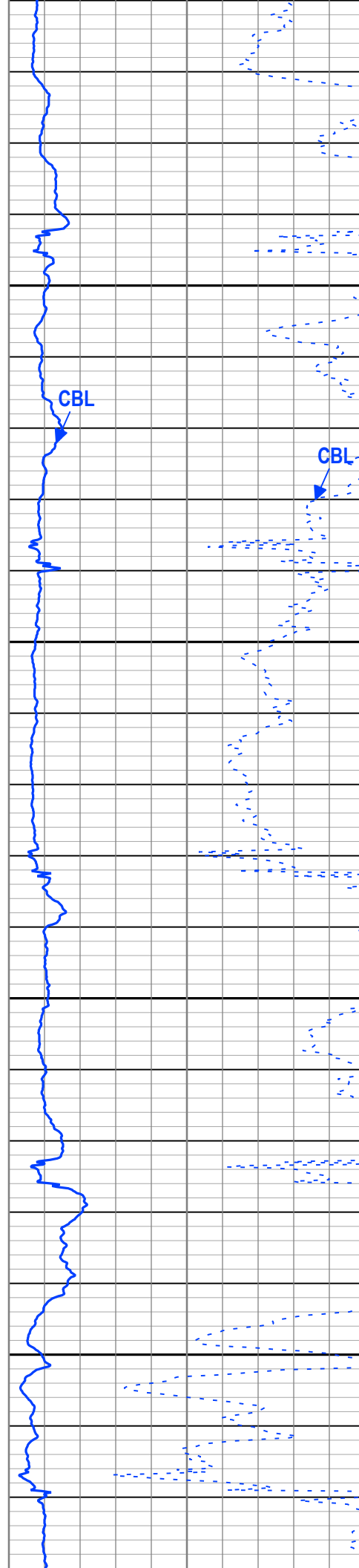
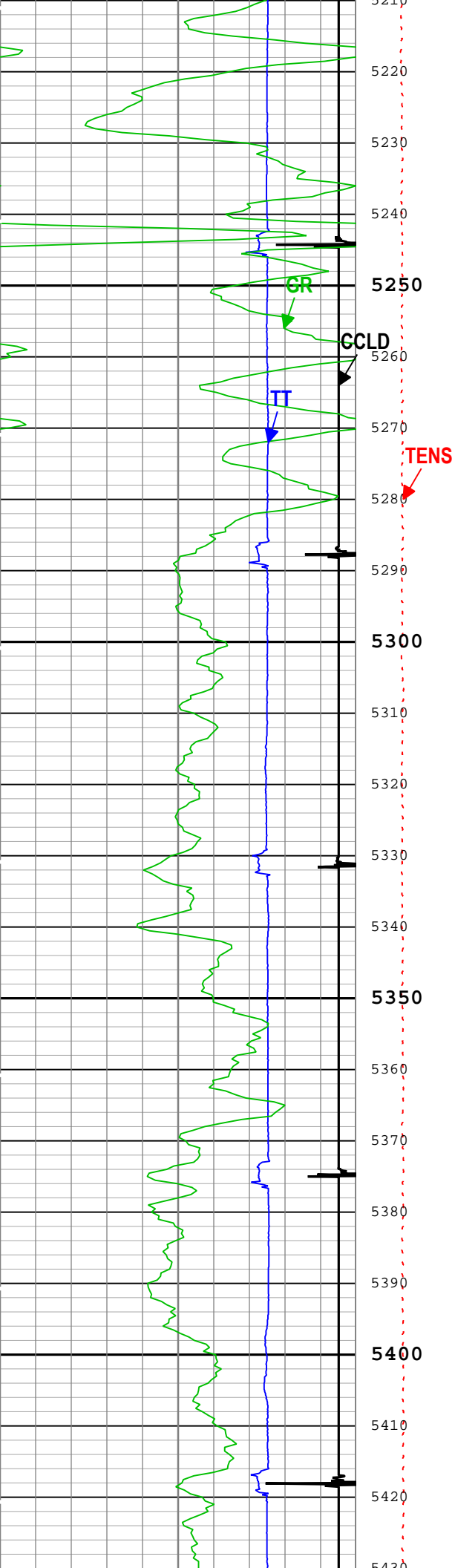


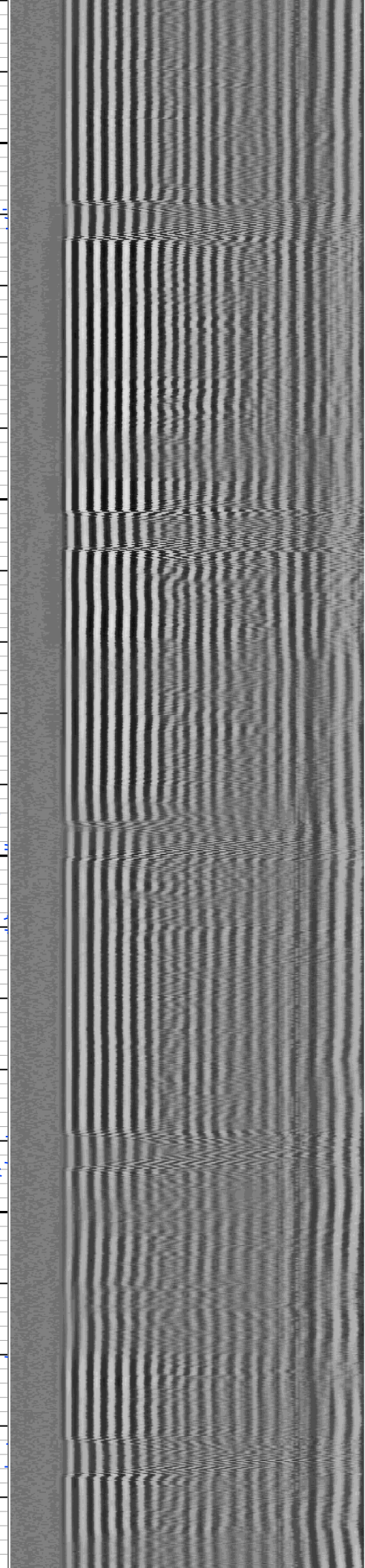
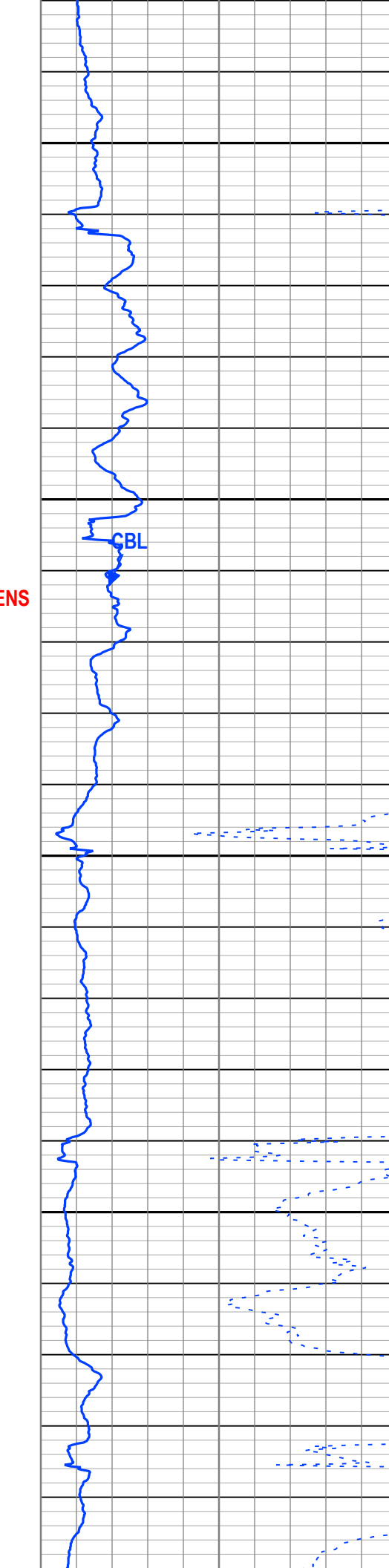
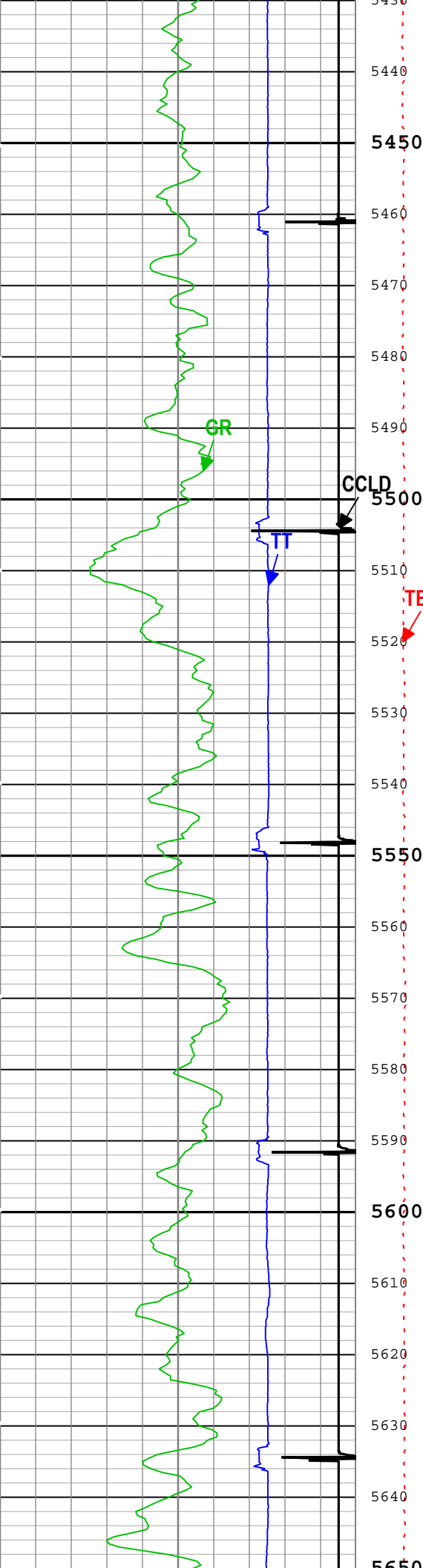


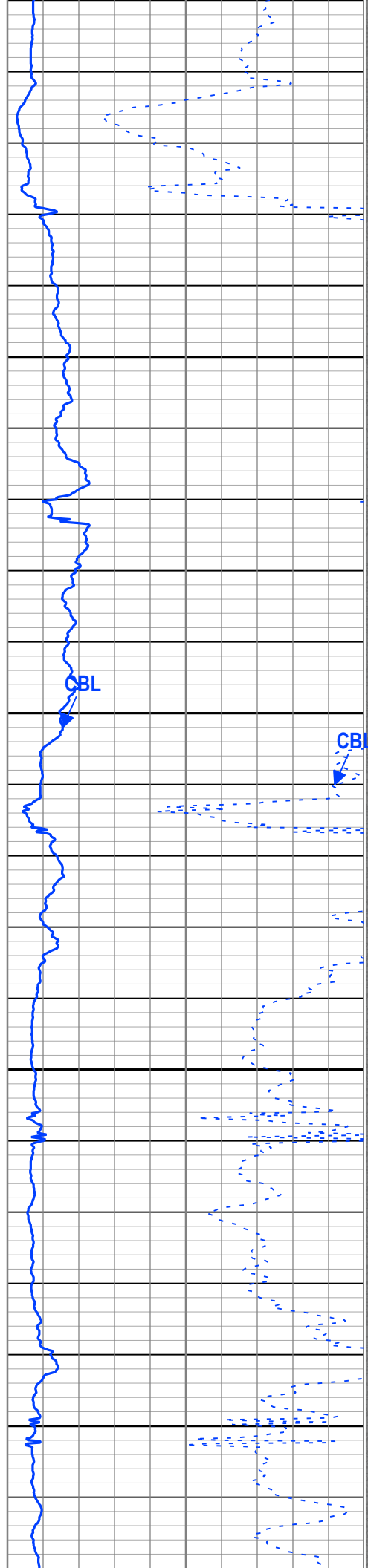
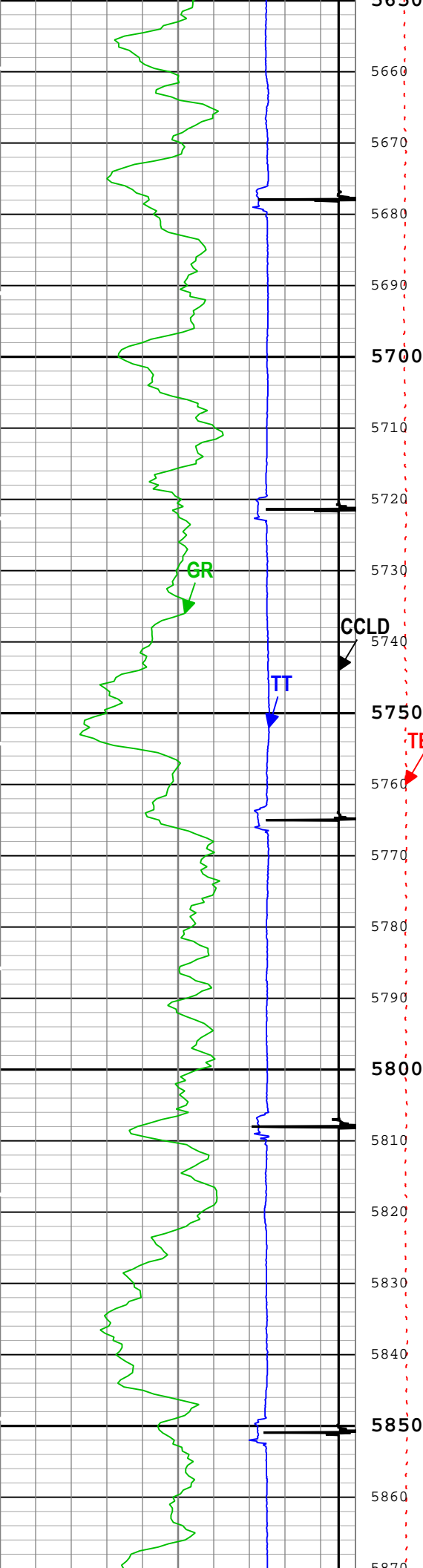


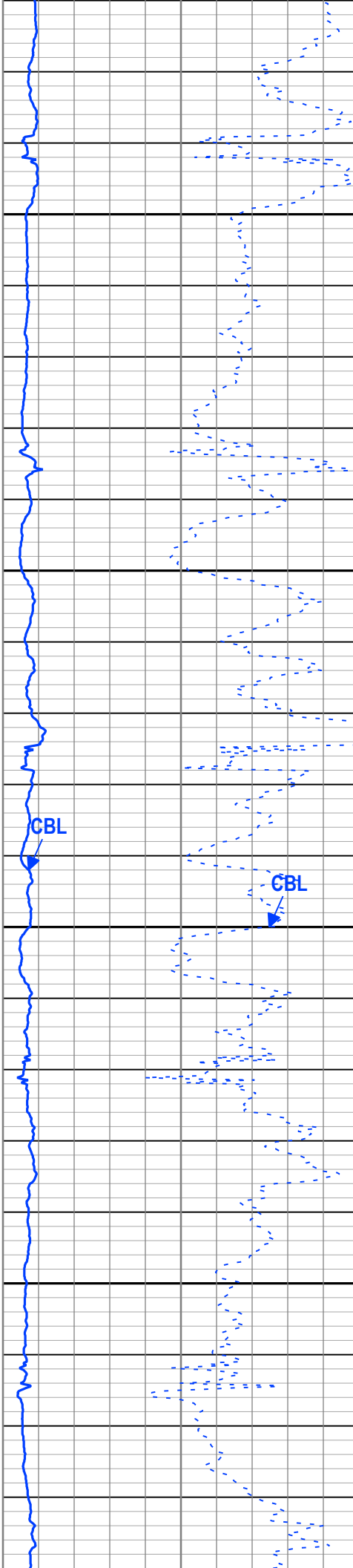
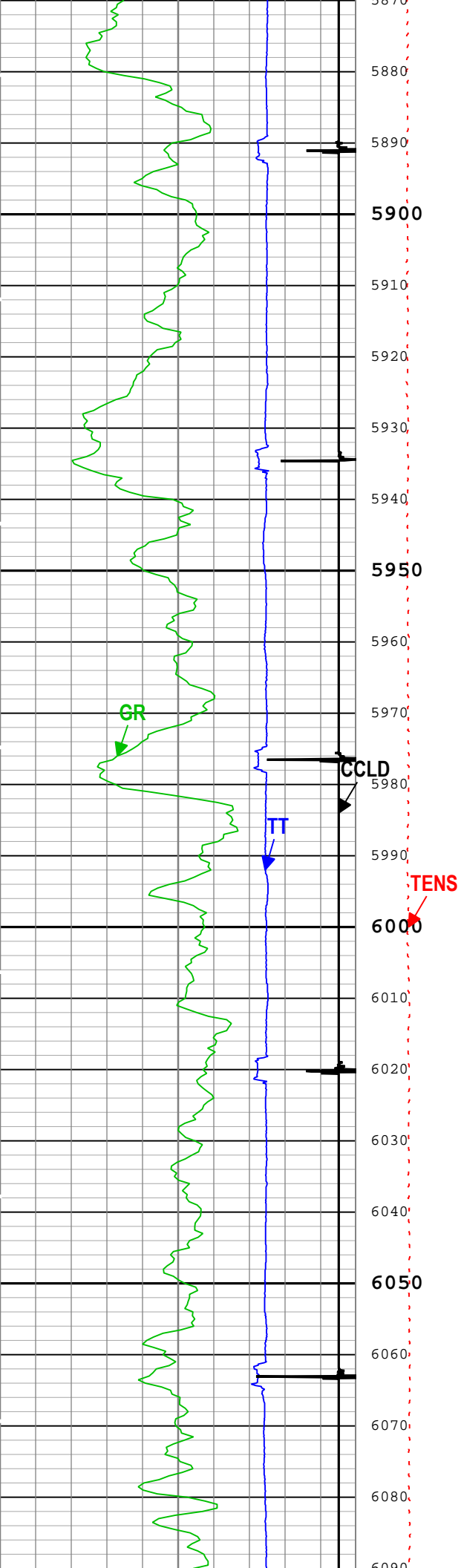


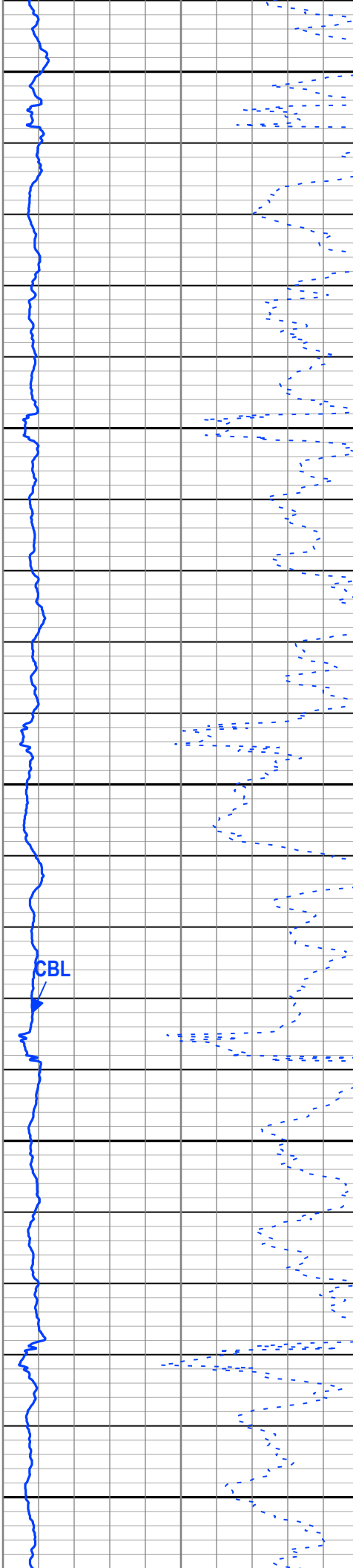
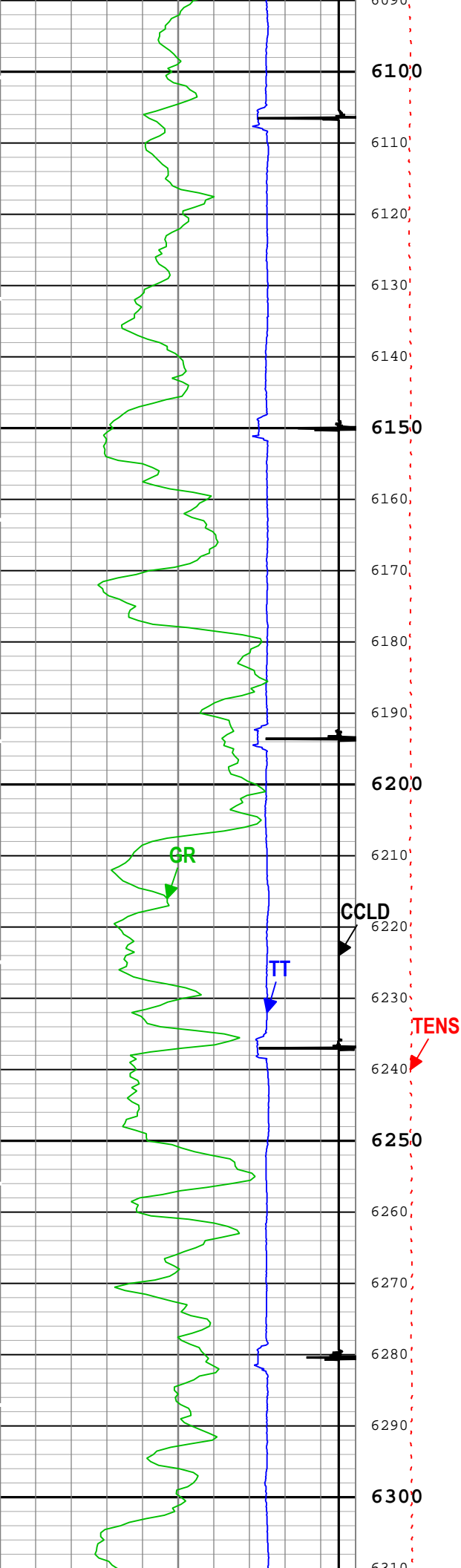


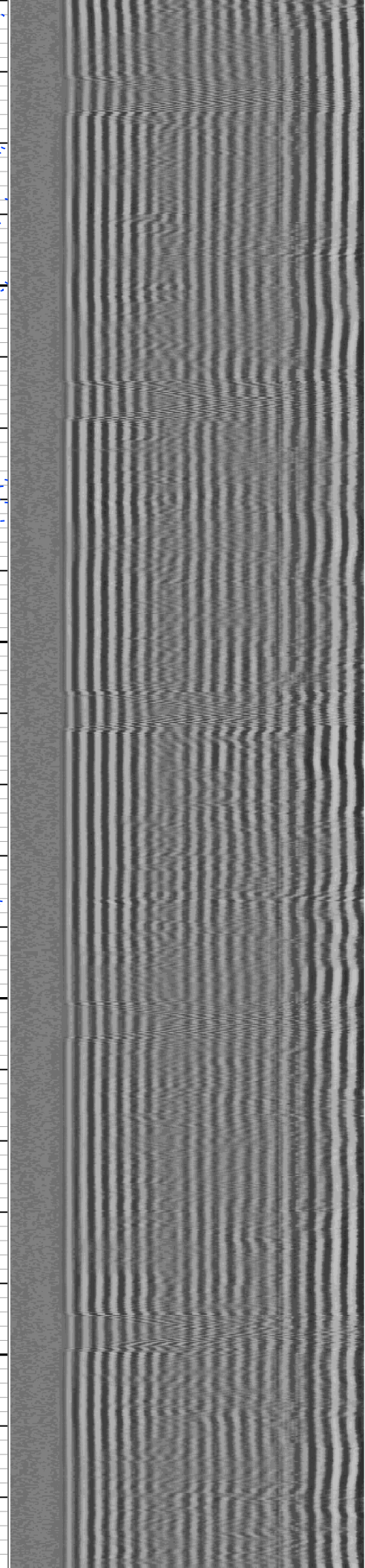
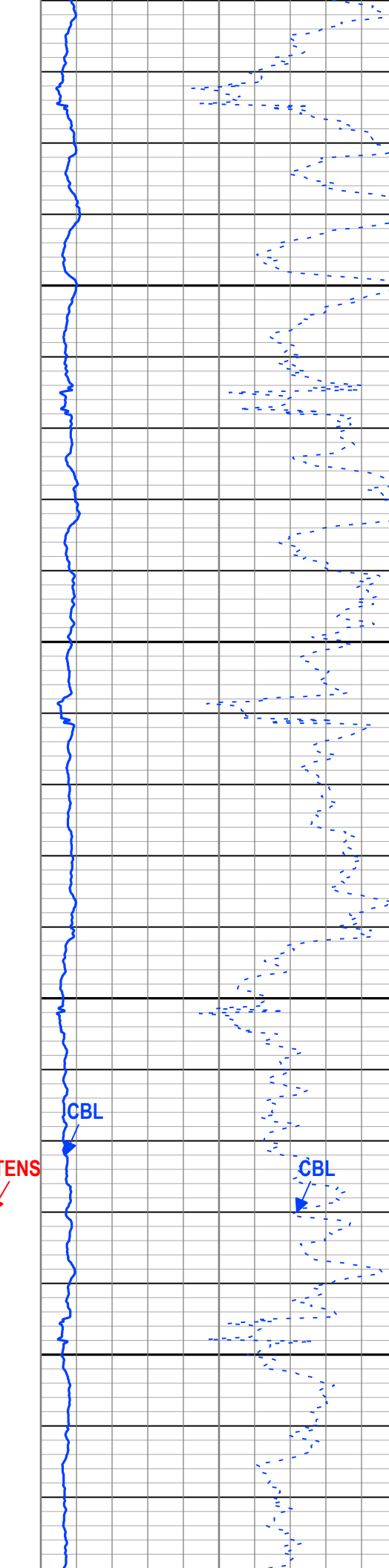
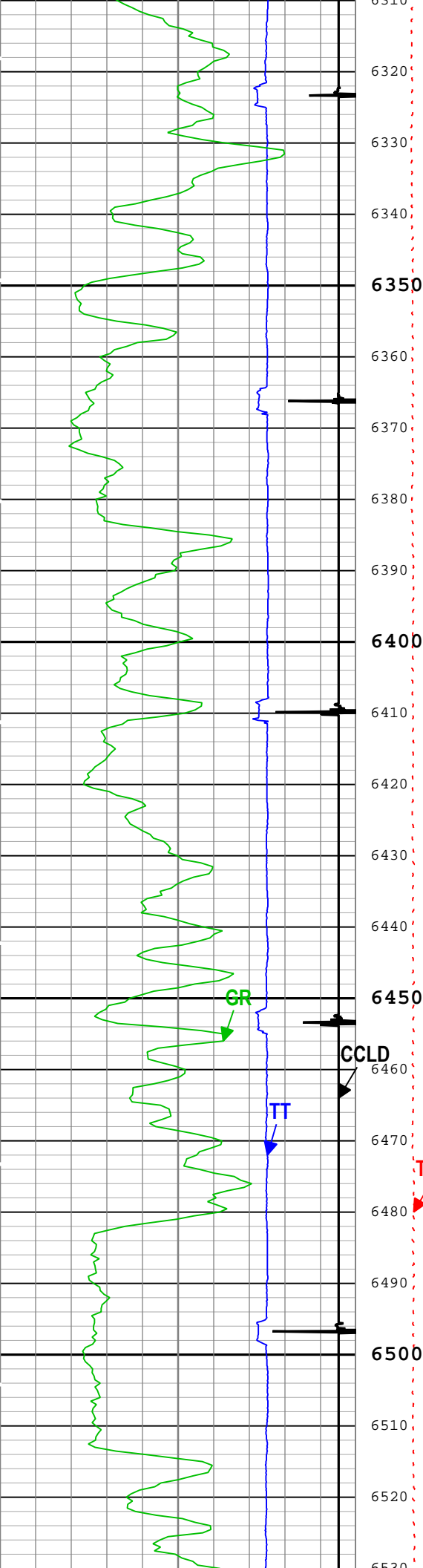


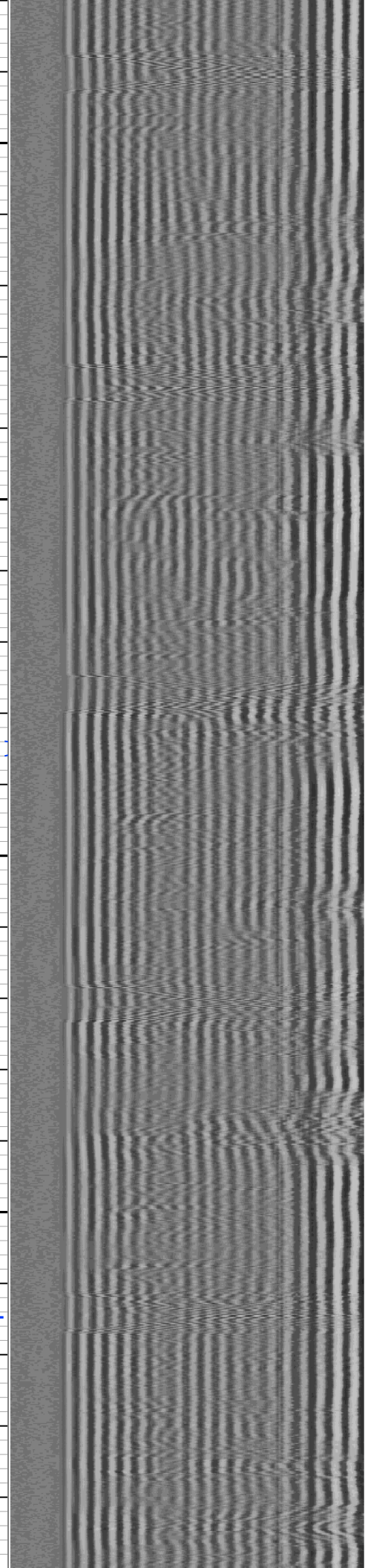
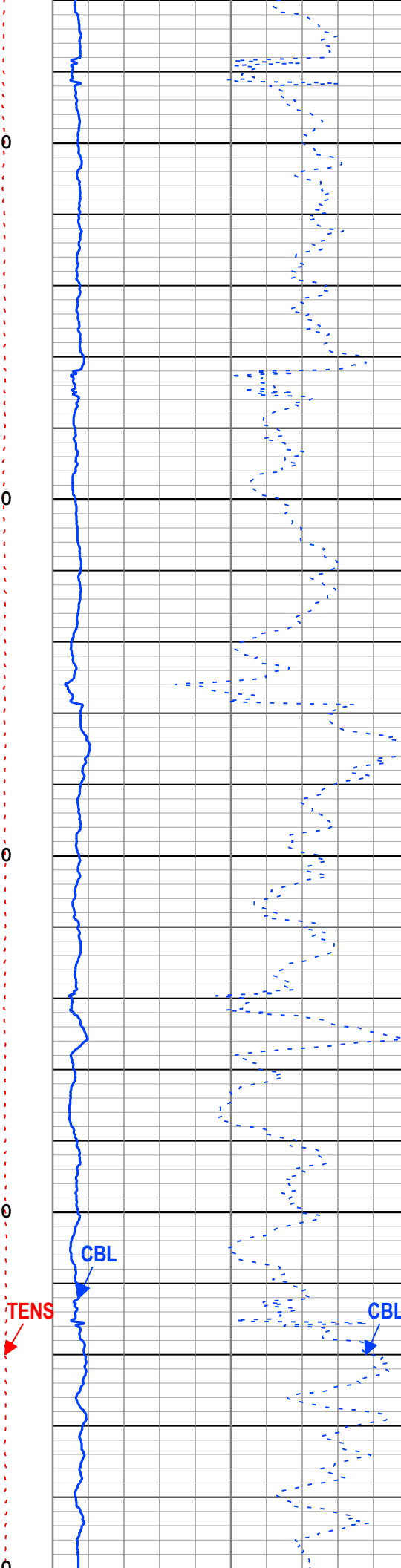
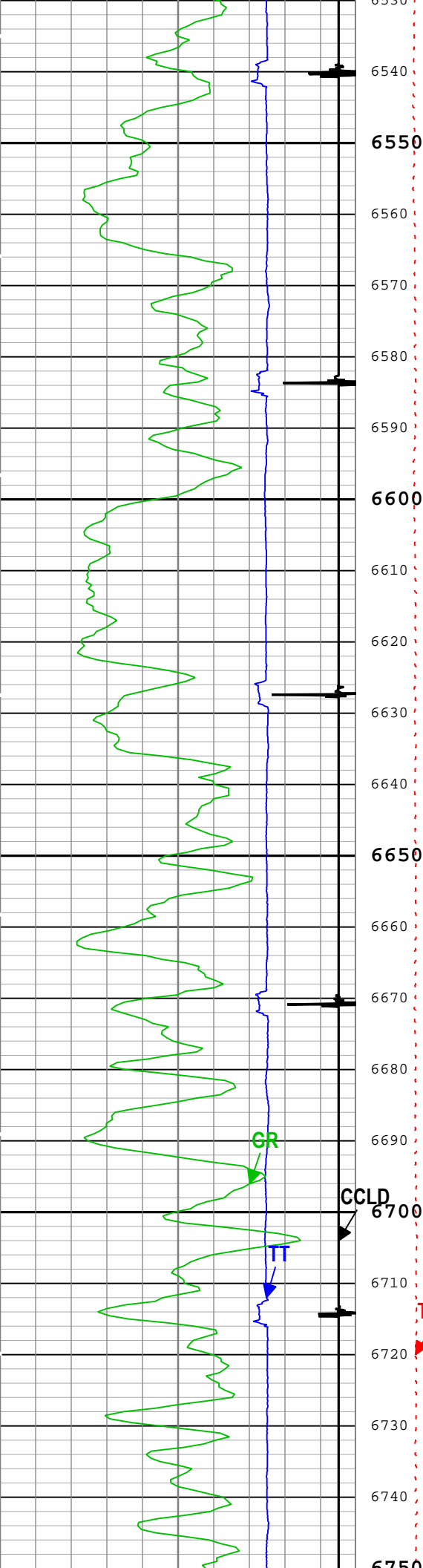


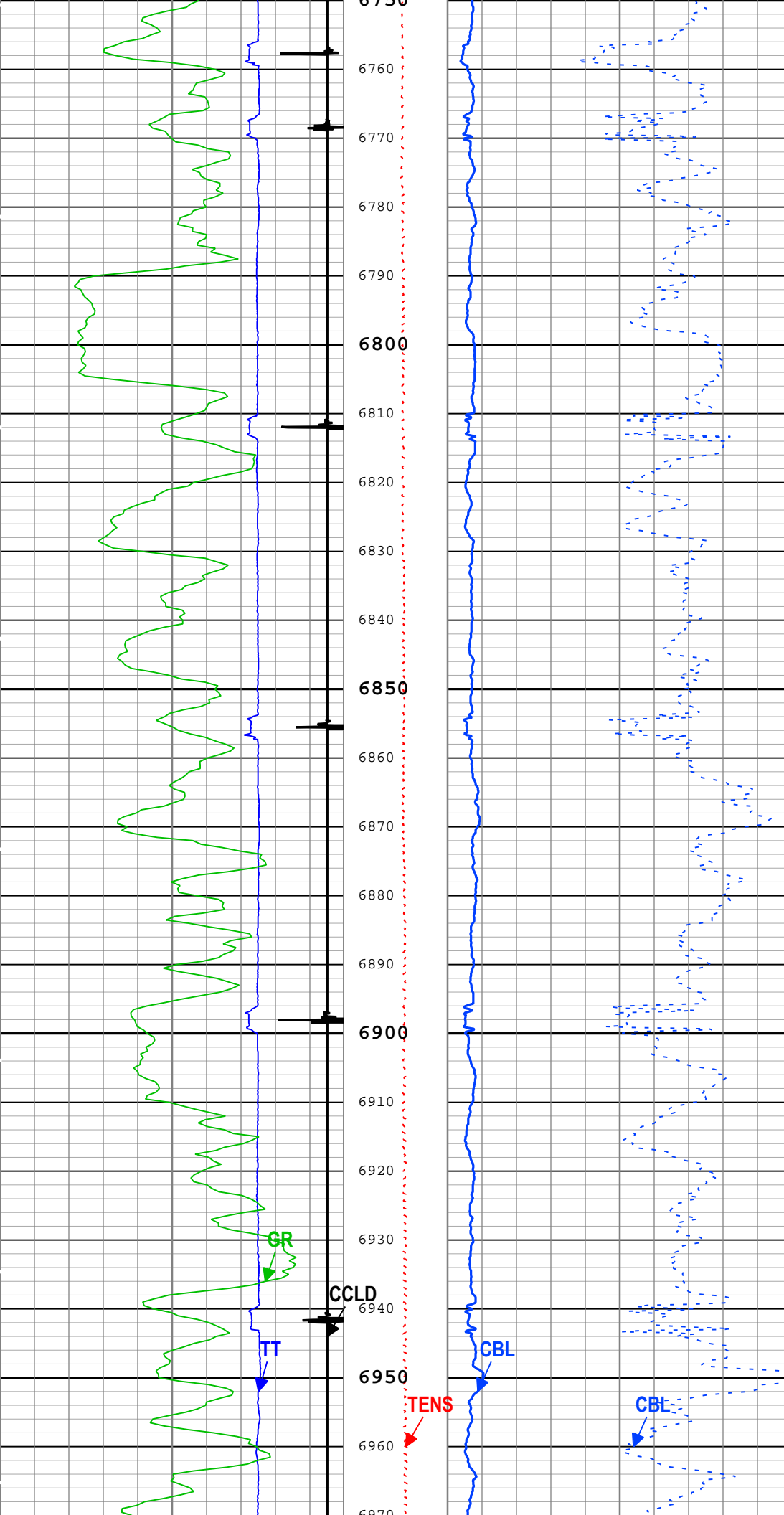


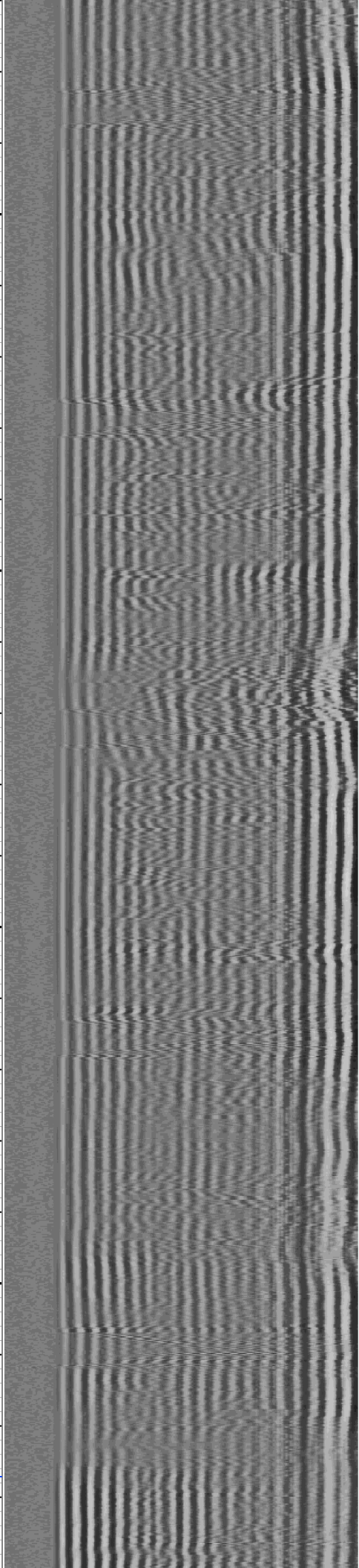
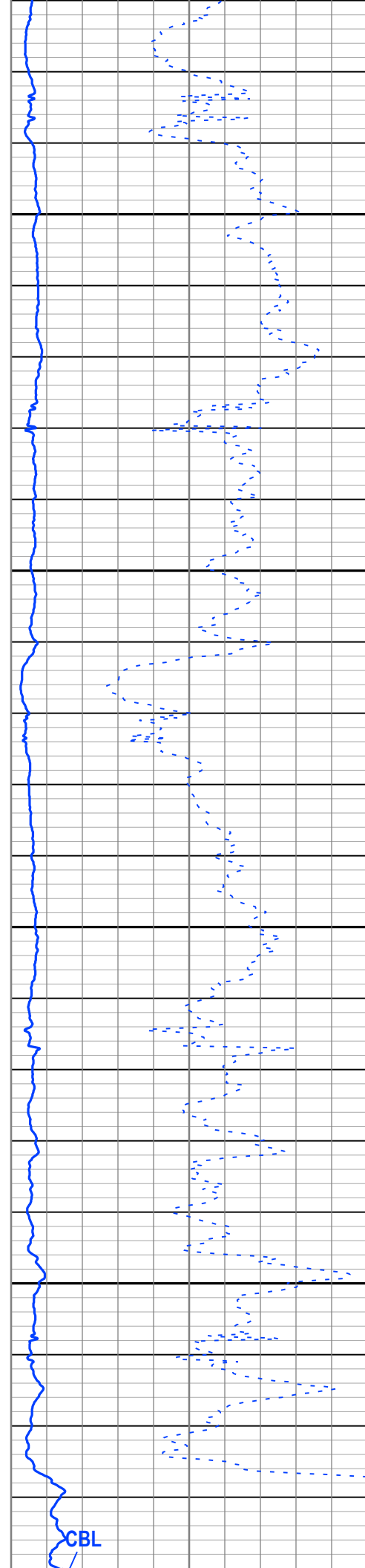
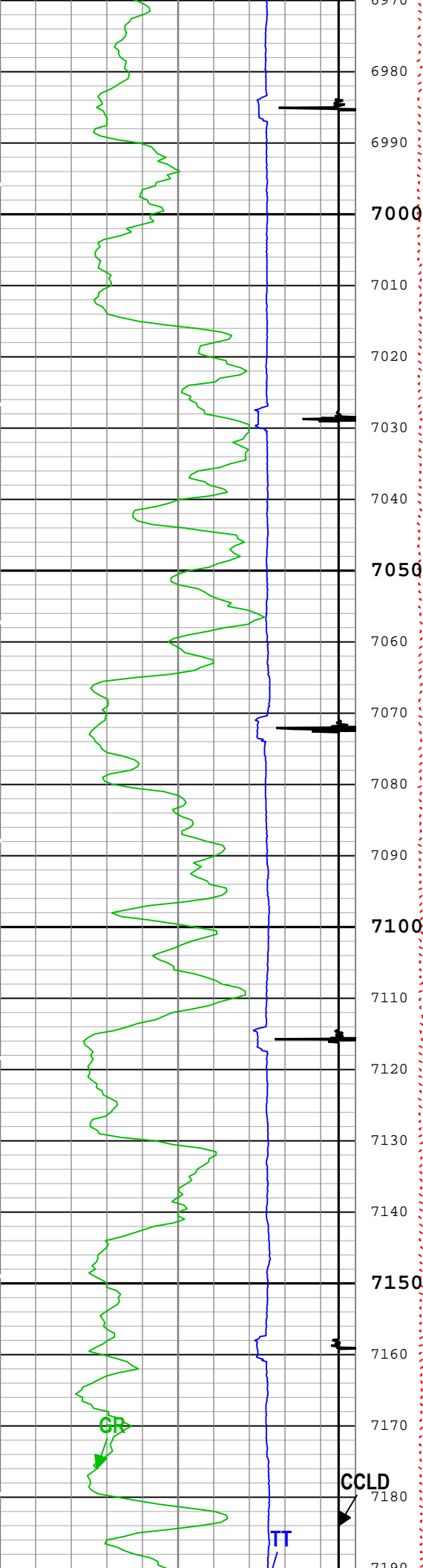


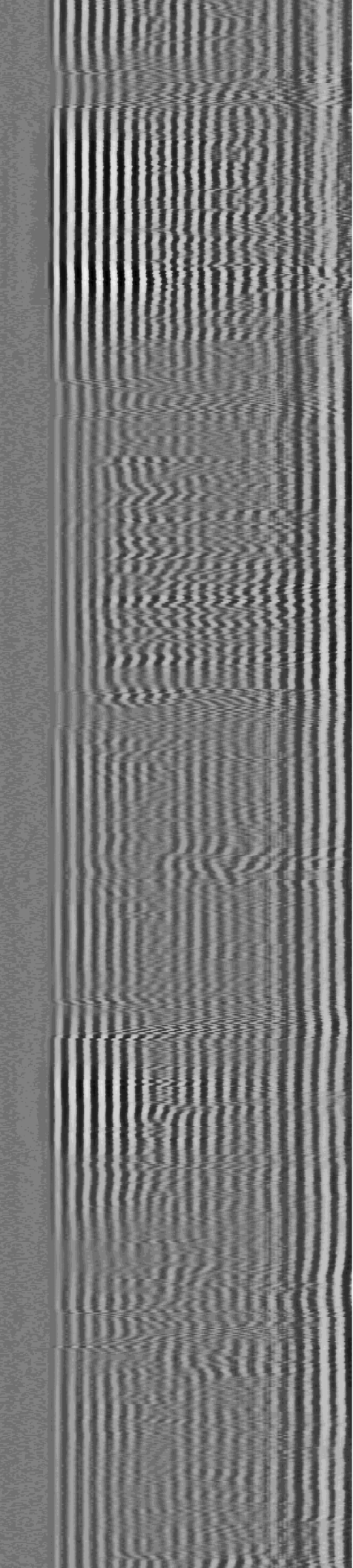
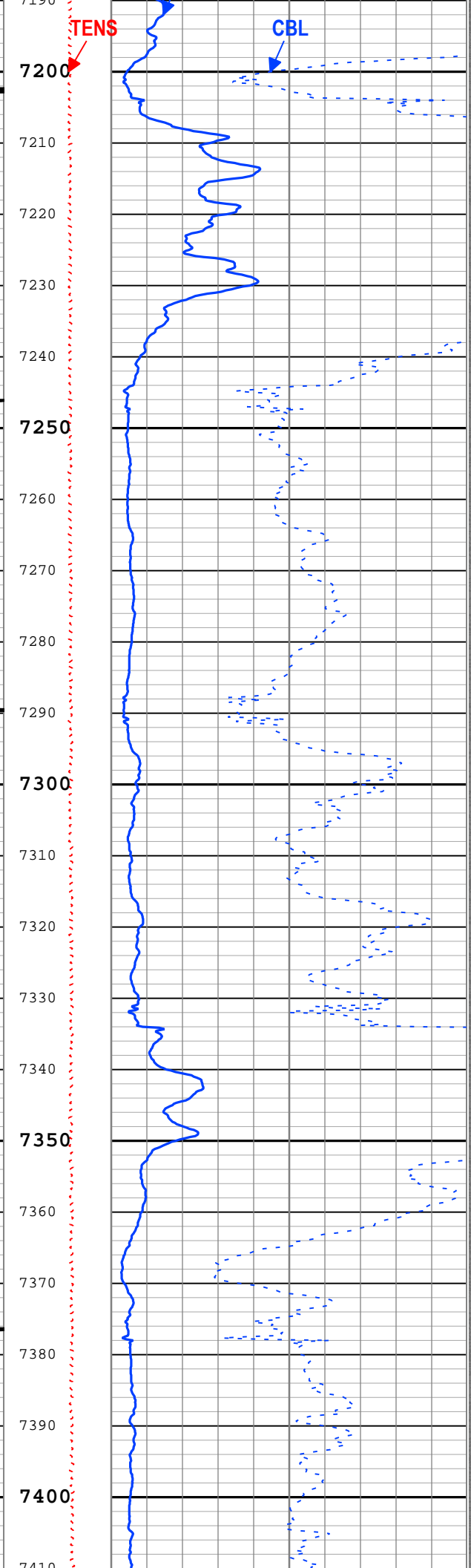
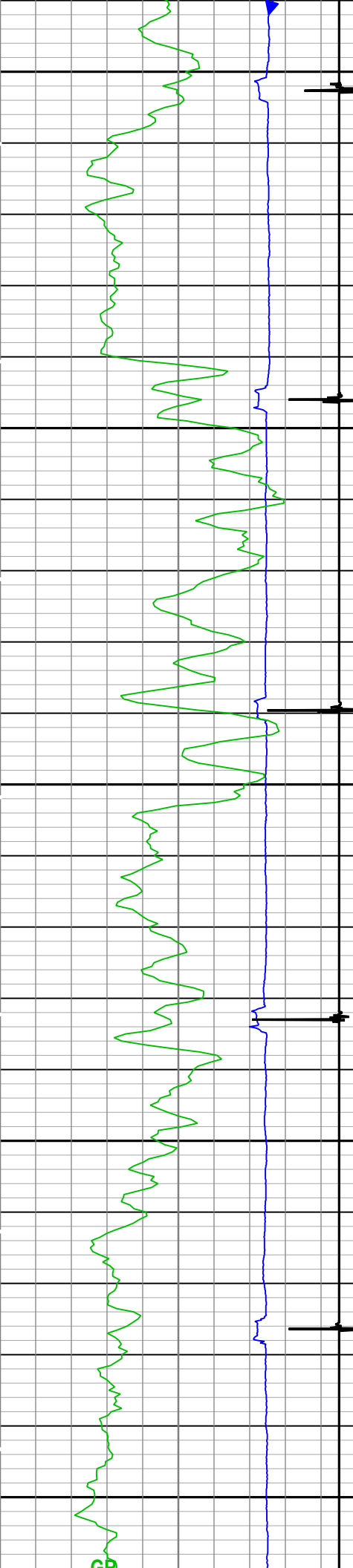


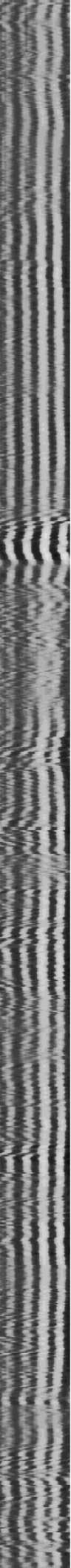
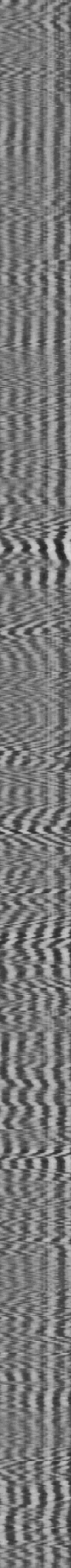
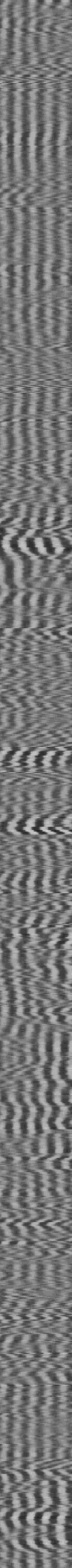
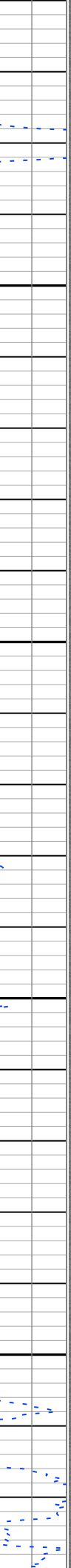
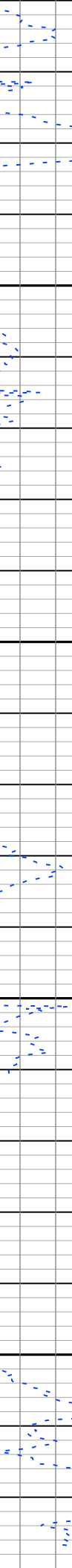
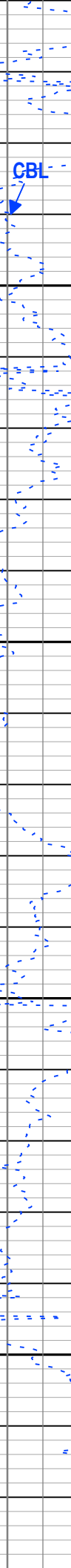
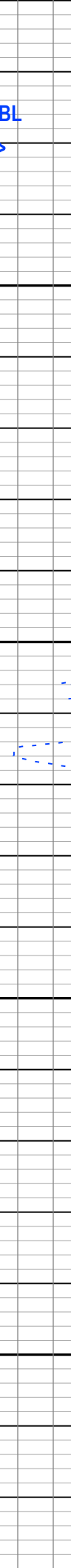
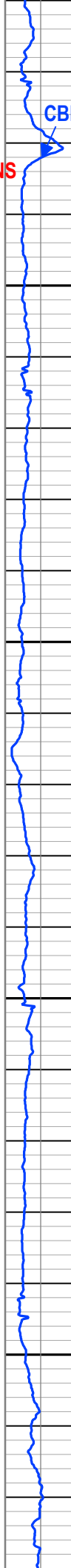
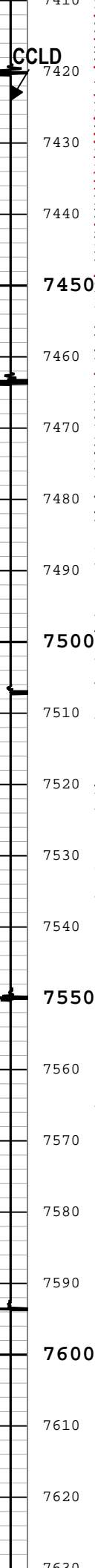
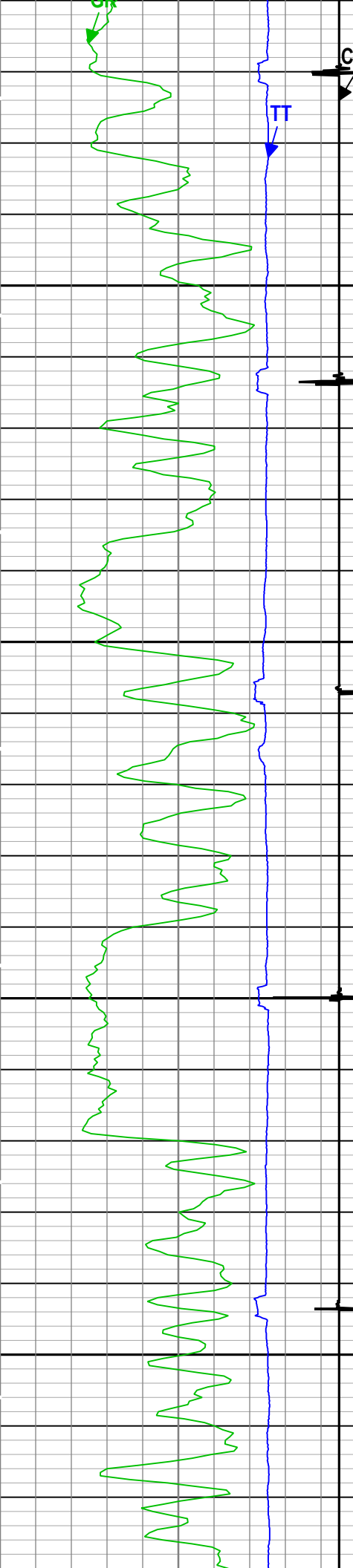


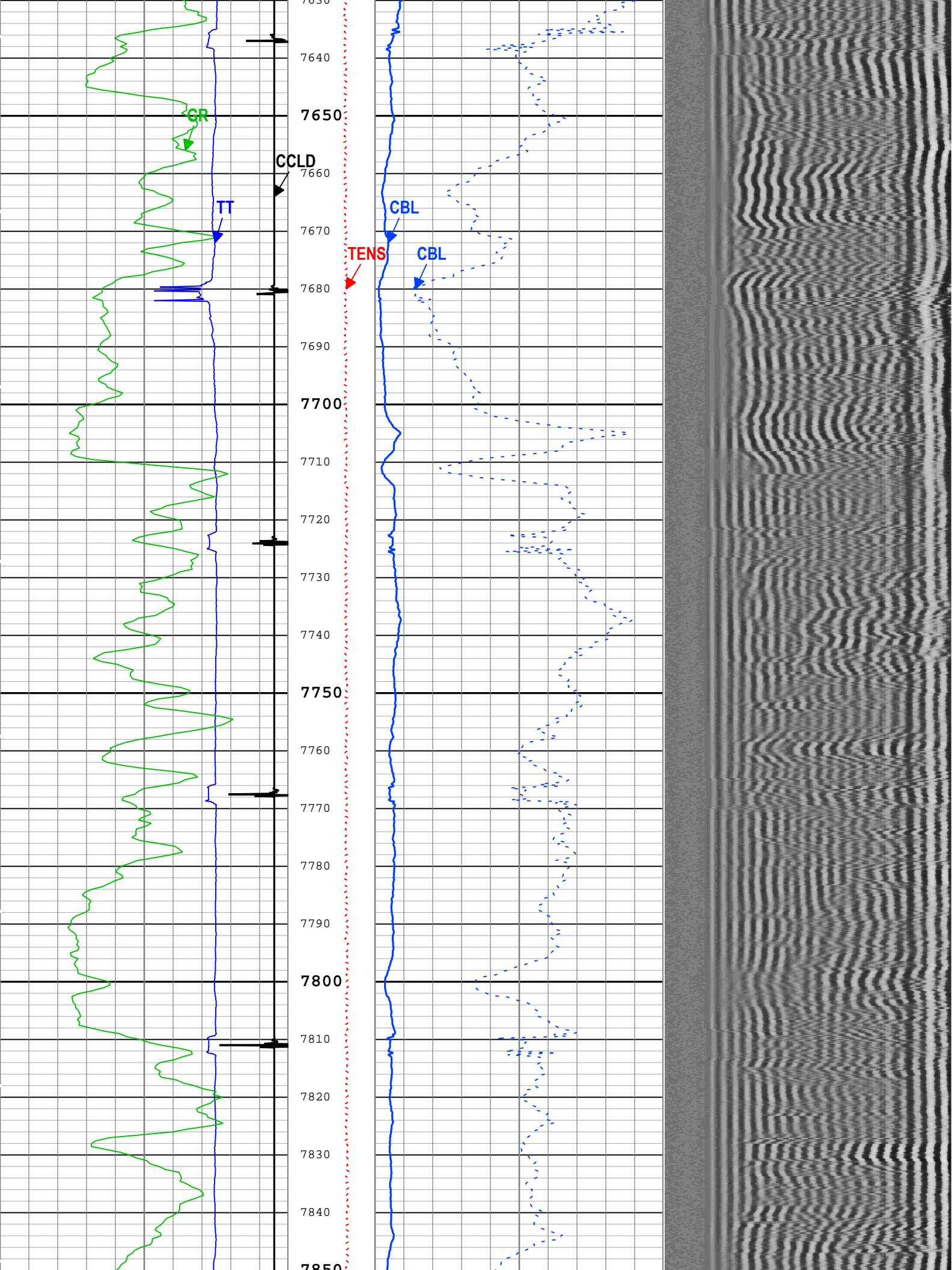


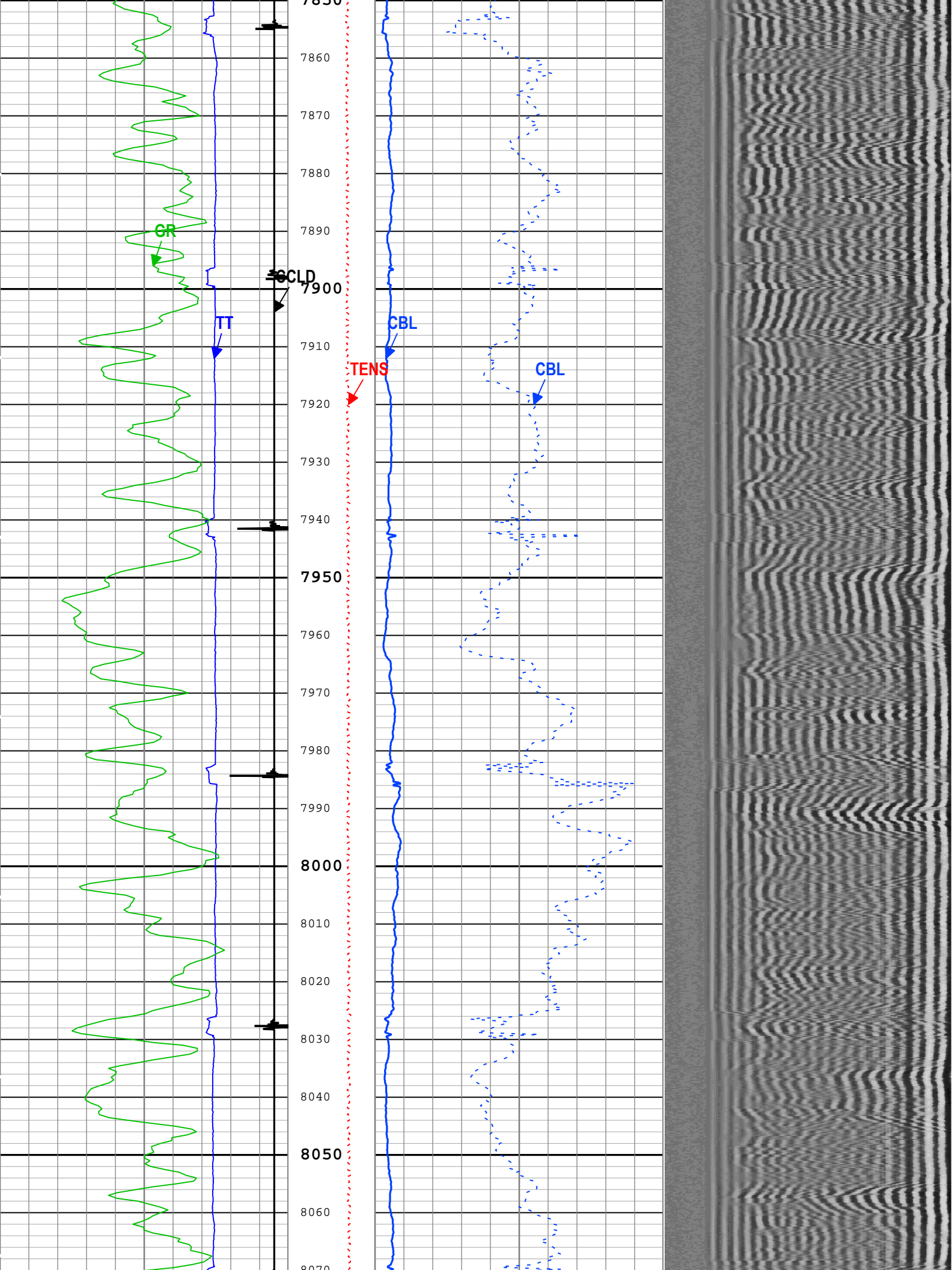


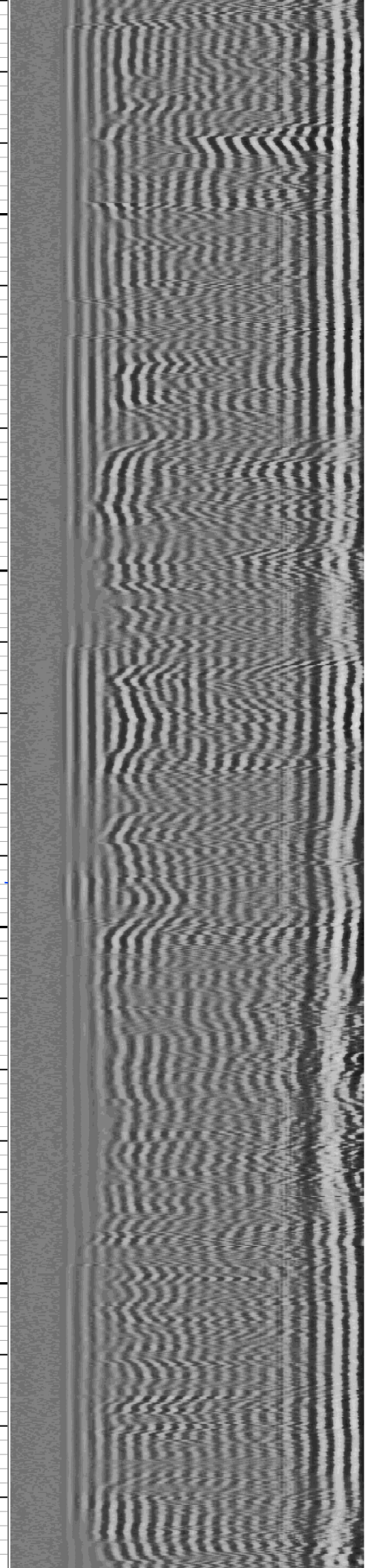
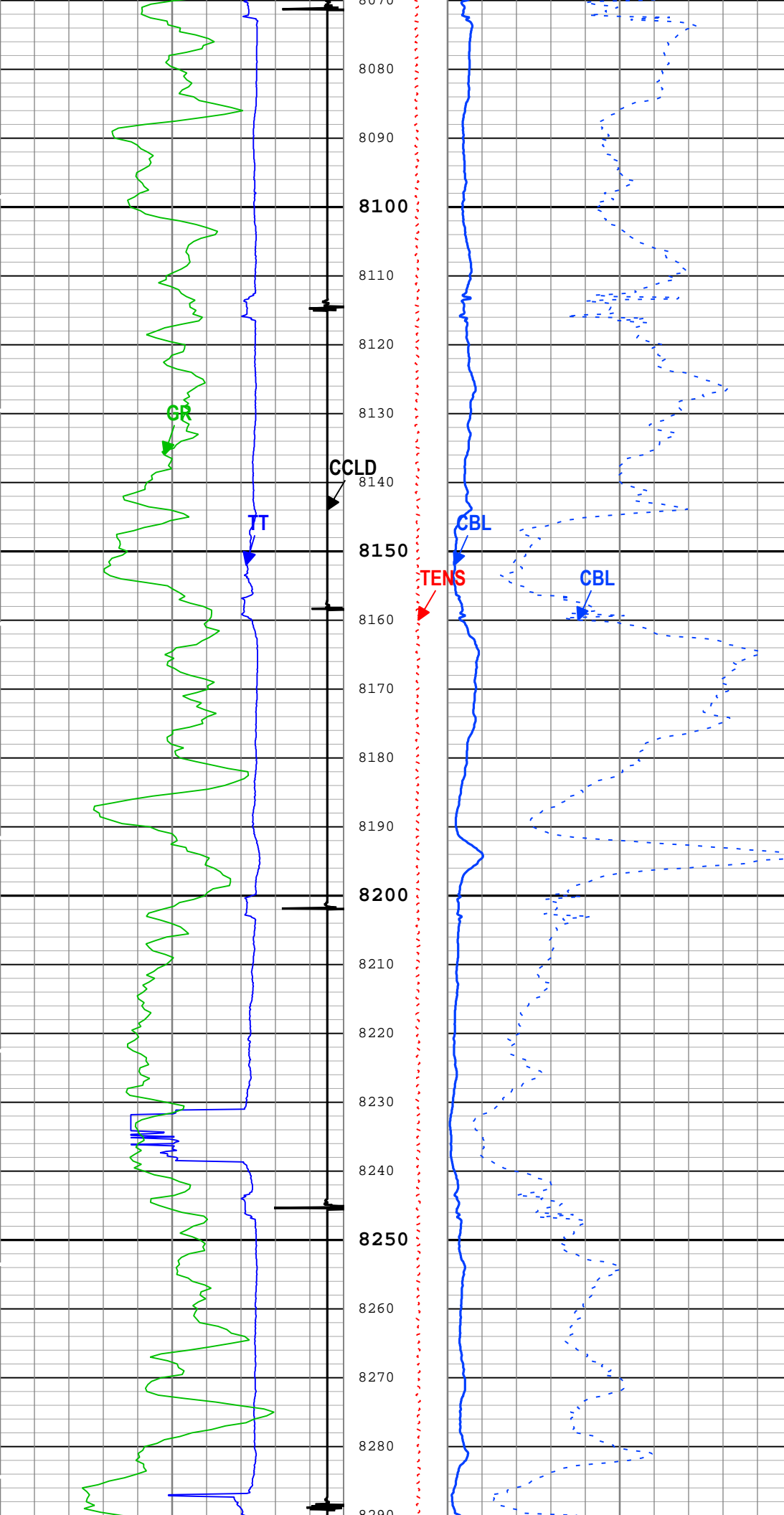


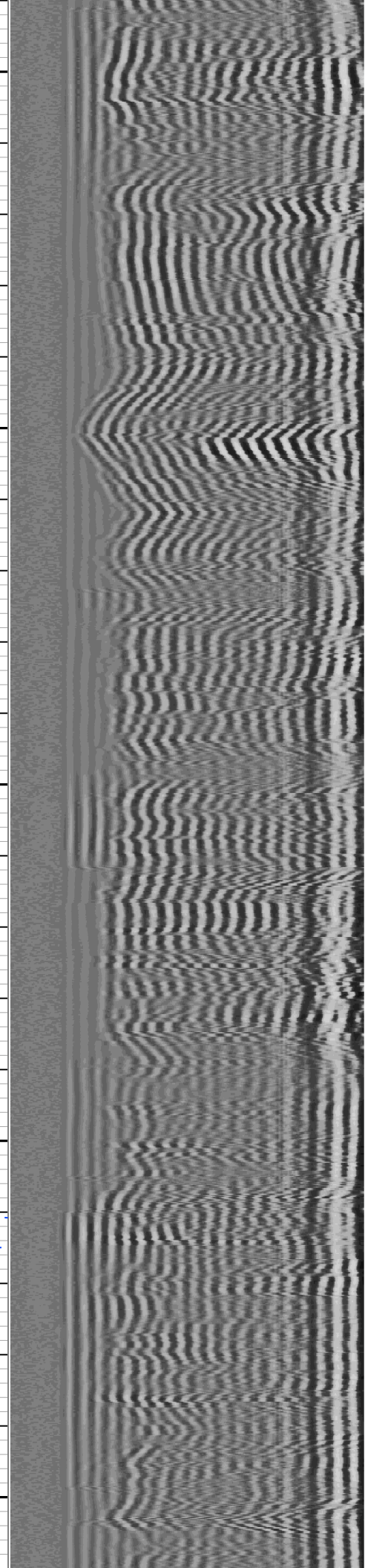
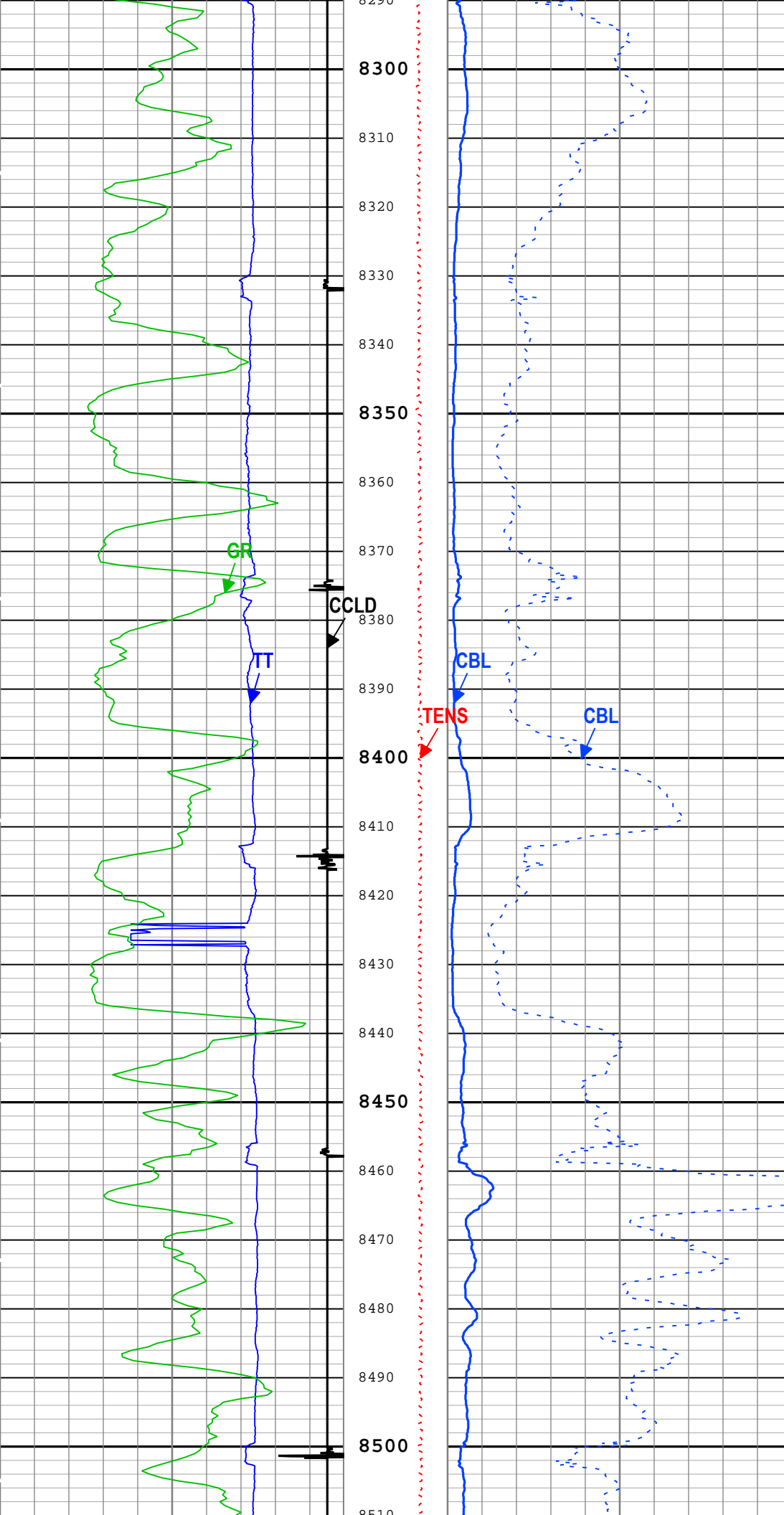


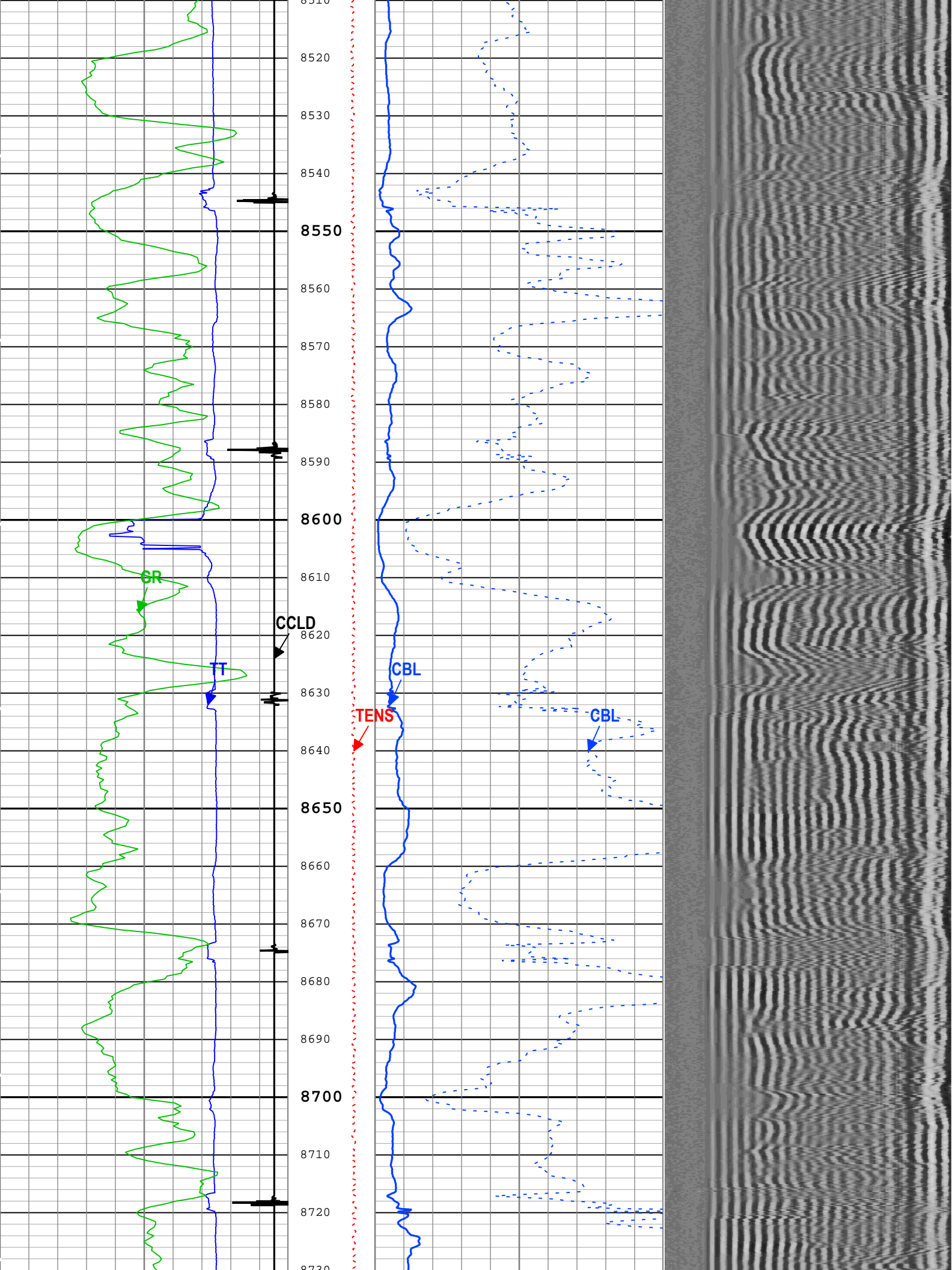


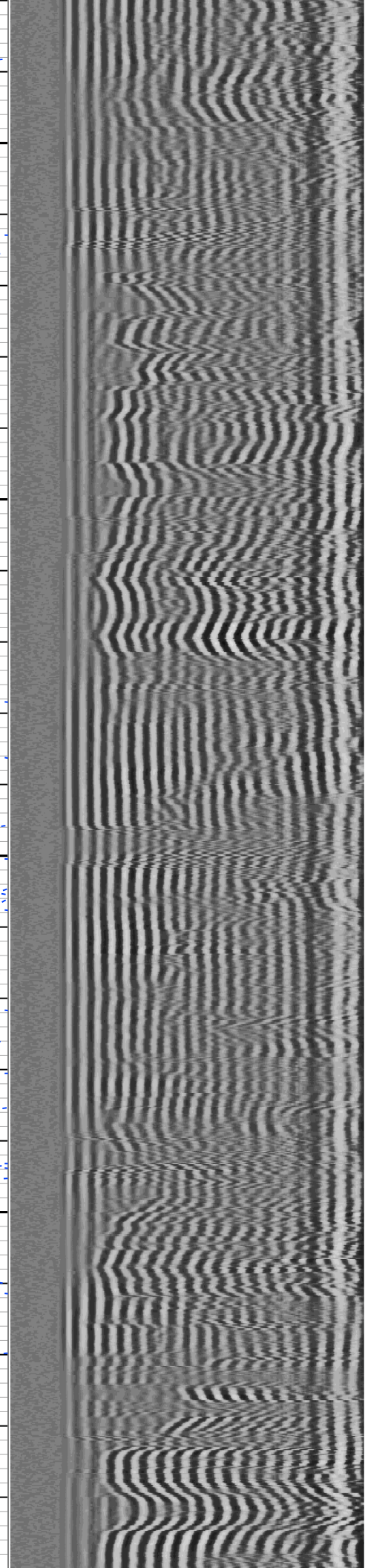
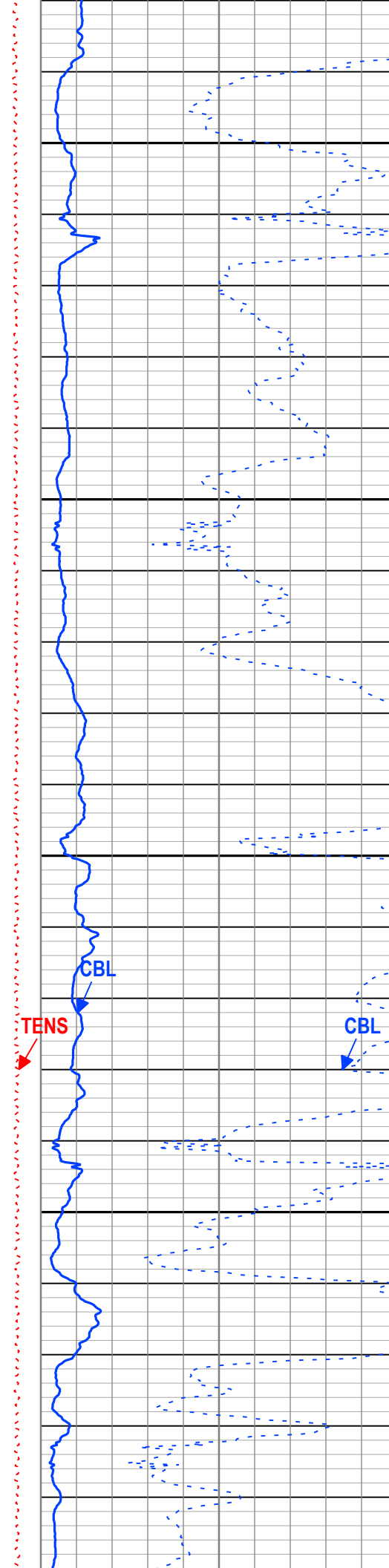
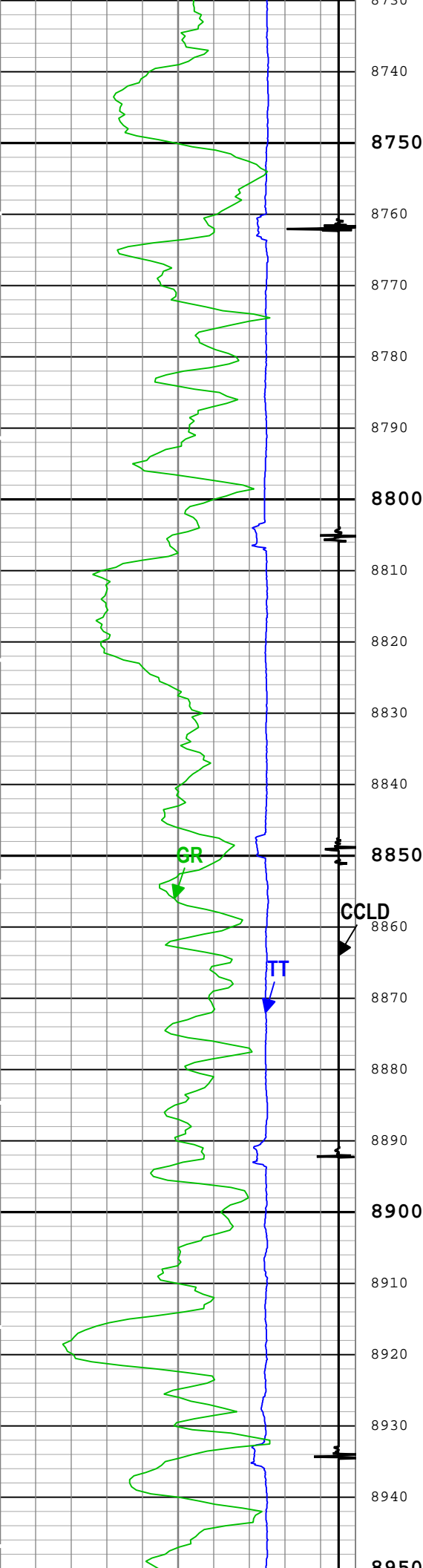


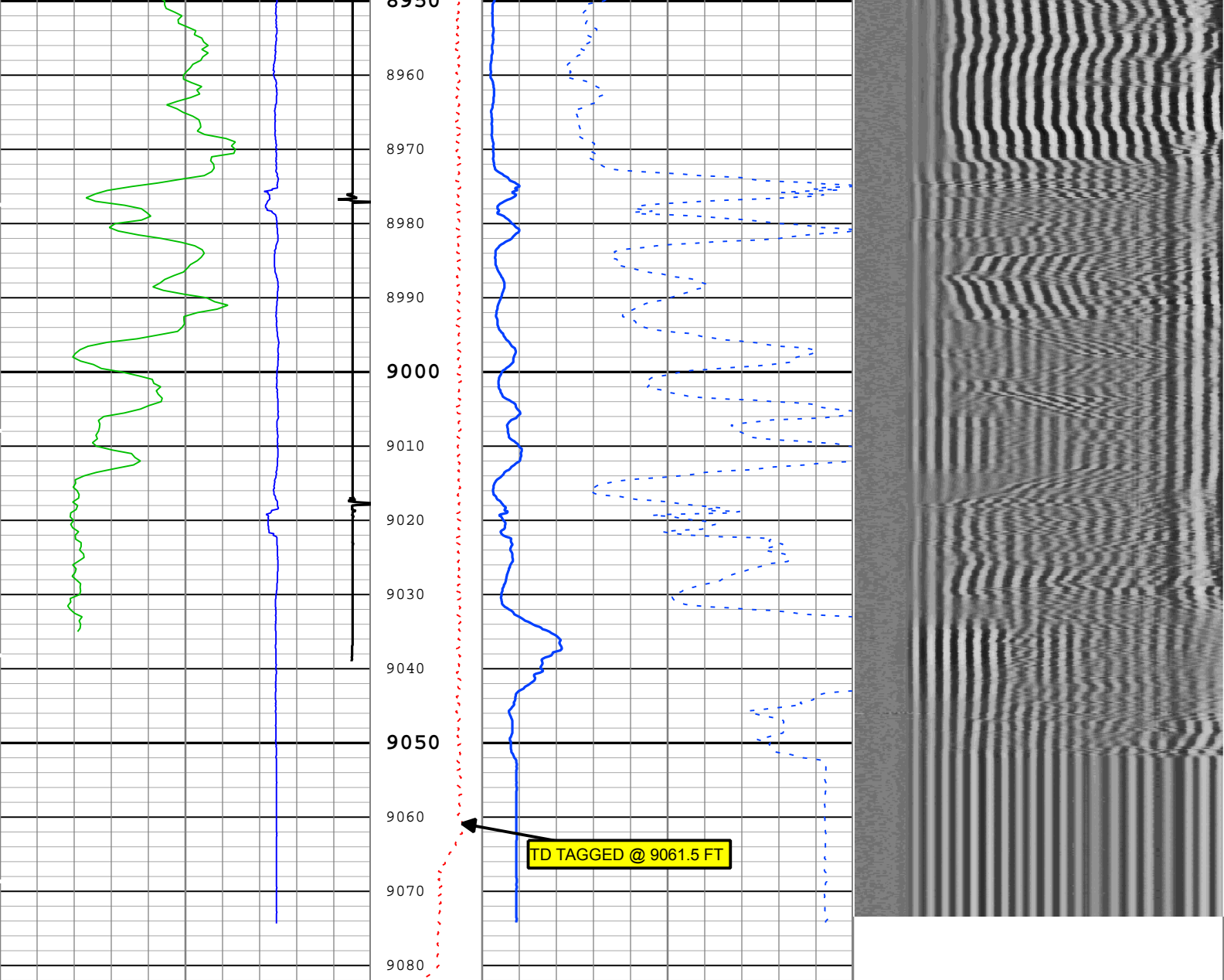













Transit Time for CBL (TT) SCMT-CB			Cable Tension (TENS) 0 lbf 2000	CBL Amplitude (CBL) SCMT-CB			Min  VDL VariableDensity (VDL) SCMT-CB 200 us 1200
400	us	200		0	mV	10	
CCL Discriminated Amplitude (CCLD) PSTP-A				CBL Amplitude (CBL) SCMT-CB			
-19	V	1		0	mV	100	
Gamma Ray (GR) PSTP-A							
0	gAPI	150					

■ 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: 23-Jul-2018 22:47:00

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	Time Zoned	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	

DFT	Drilling Fluid Density	Borehole	8.49	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	8322	ft
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	2150	2472.6
MCI	1.25	2472.6	9082.92
All depth are actual.			

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
CBLG	40	23-Jul-2018 18:43:18	23-Jul-2018 19:00:48	9082.94	8606.69
CBLG	60	23-Jul-2018 19:00:48	23-Jul-2018 22:28:36	8606.69	2140.96
All depth are at tool zero.					

Tool Control Parameters				
One: Parameters				
Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	24 dB	

One				
CBL-VDL Repeat Pass				

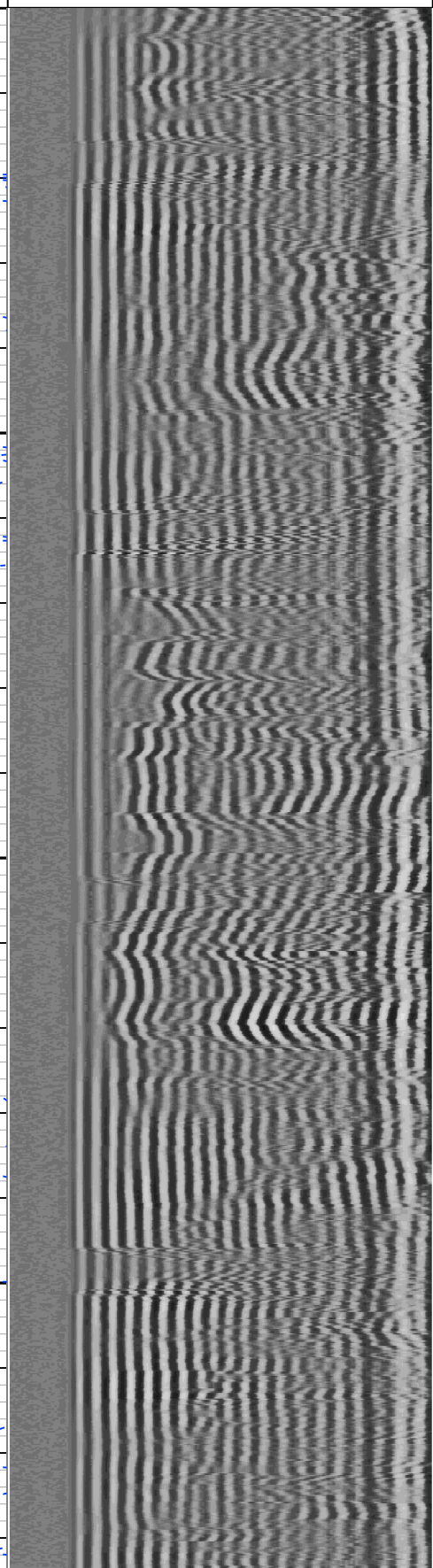
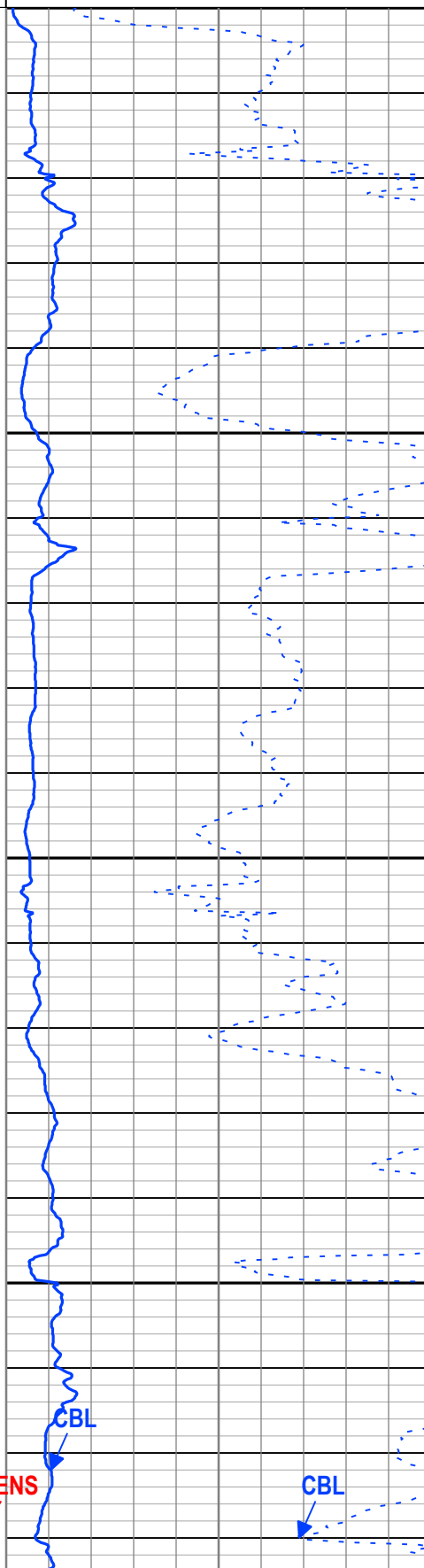
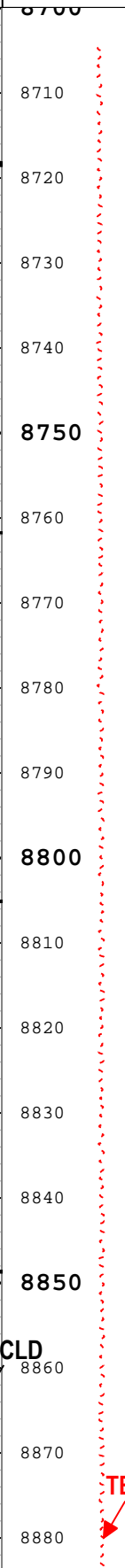
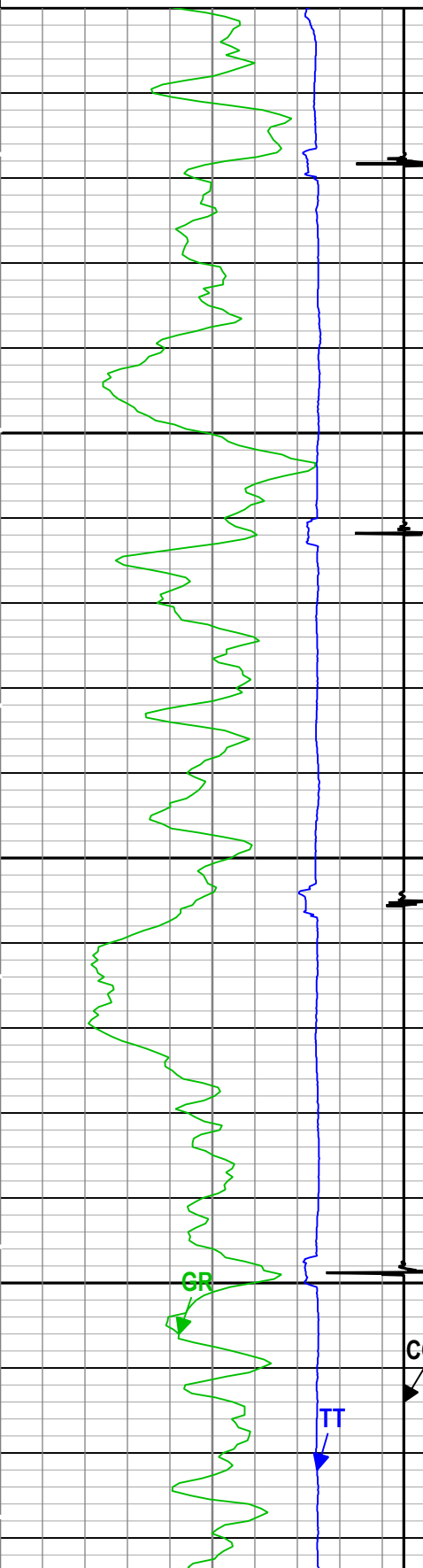
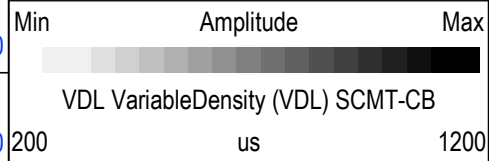
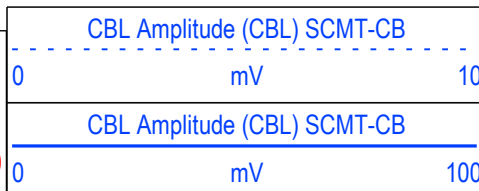
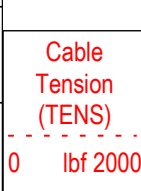
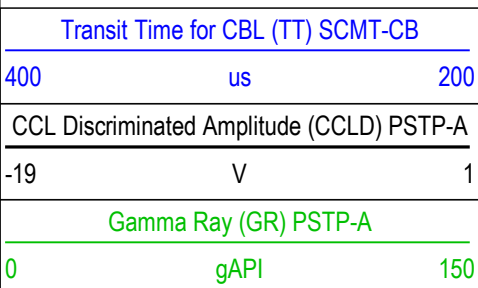
Software Version				
Acquisition System			Version	
Maxwell 2018 SP1			8.1.99839.3100	
Application Patch			Wireline_Hotfix-Mandatory-2018SP1_8.1.102865	

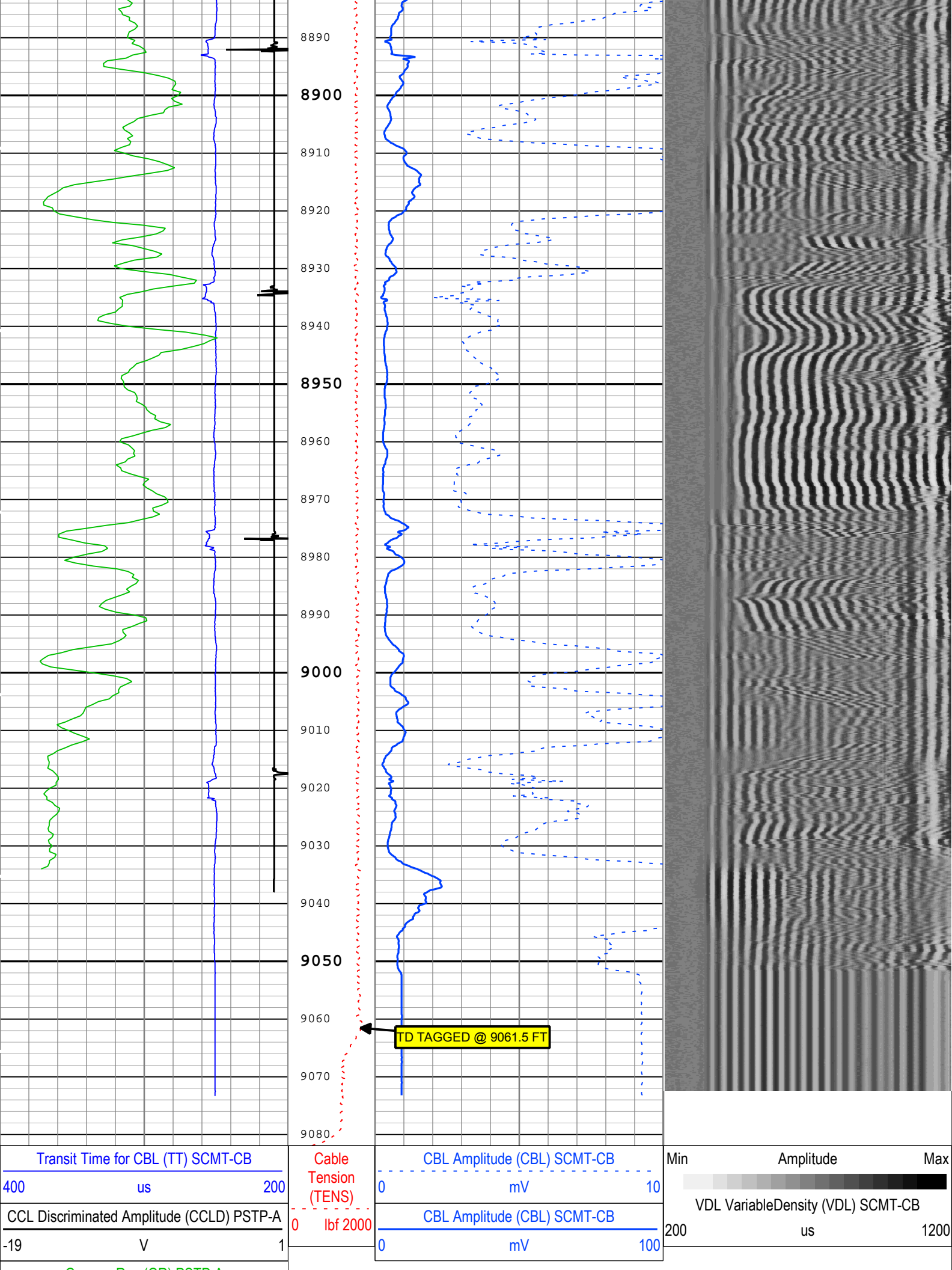
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[3]:Up	Up	8704.02 ft	9081.93 ft	23-Jul-2018 6:26:54 PM	23-Jul-2018 6:41:38 PM	ON	6.71 ft	Yes
All depths are referenced to toolstring zero									

Log	Company:Caerus Operating LLC	Well:Puckett 15A-26
		One: Log[3]: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: 23-Jul-2018 22:47:07

TIME_1900 - Time Marked every 60.00 (s)





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: 23-Jul-2018 22:47:07

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	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.49	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	8322	ft
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-A	24 dB	

One

CBL-VDL Free Pipe

Software Version

Acquisition System		Version
Maxwell 2018 SP1		8.1.99839.3100
Application Patch		Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Pass Summary

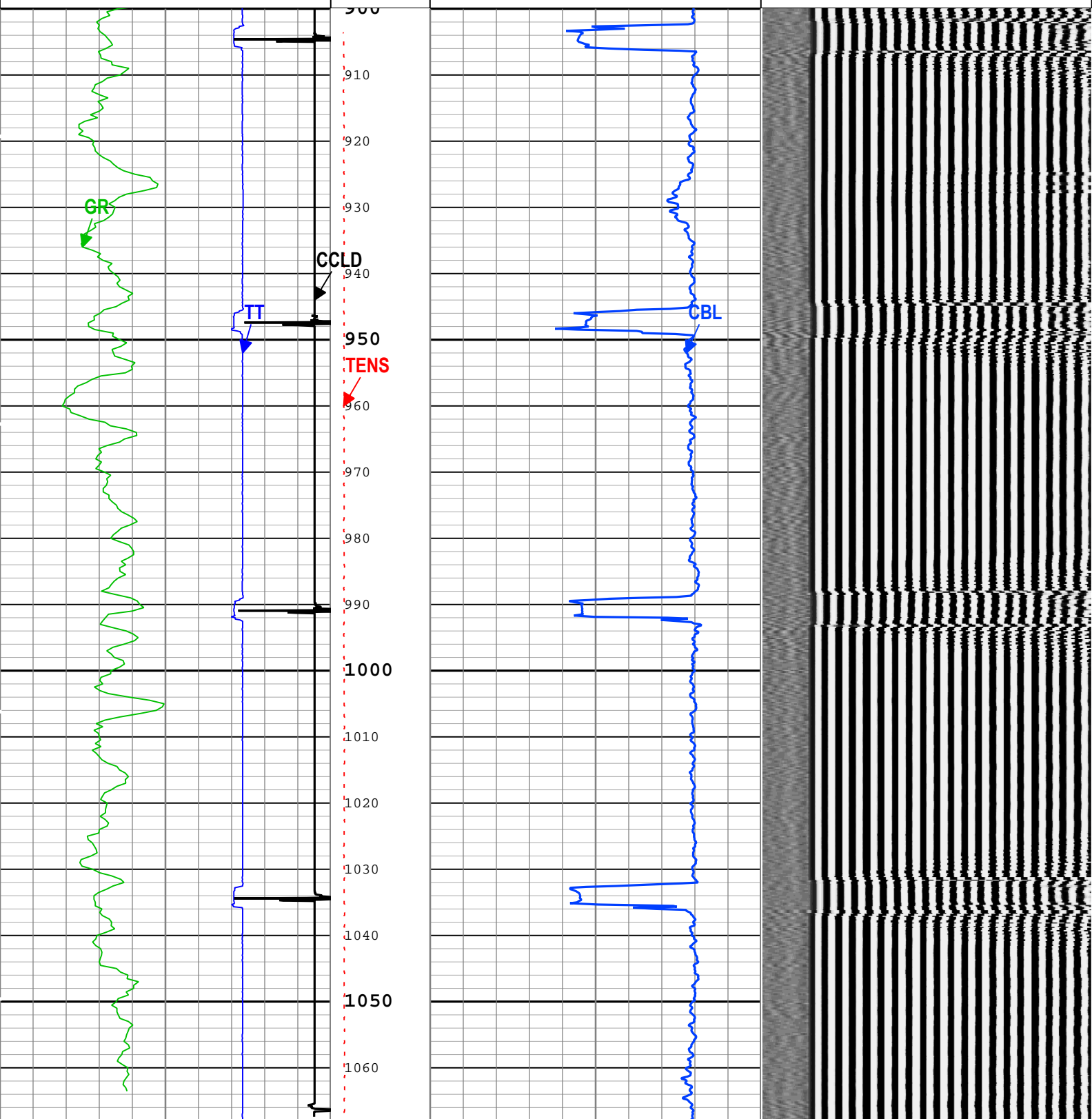
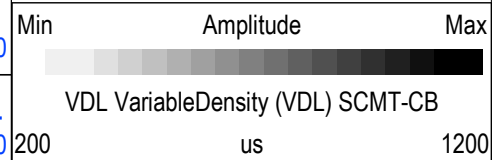
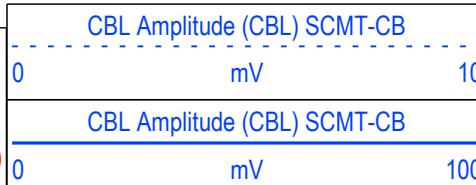
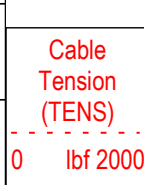
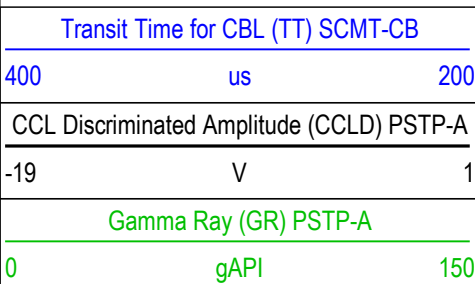
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[1]:Up	Up	903.54 ft	1111.38 ft	23-Jul-2018 5:57:28 PM	23-Jul-2018 6:02:23 PM	ON	0.00 ft	No

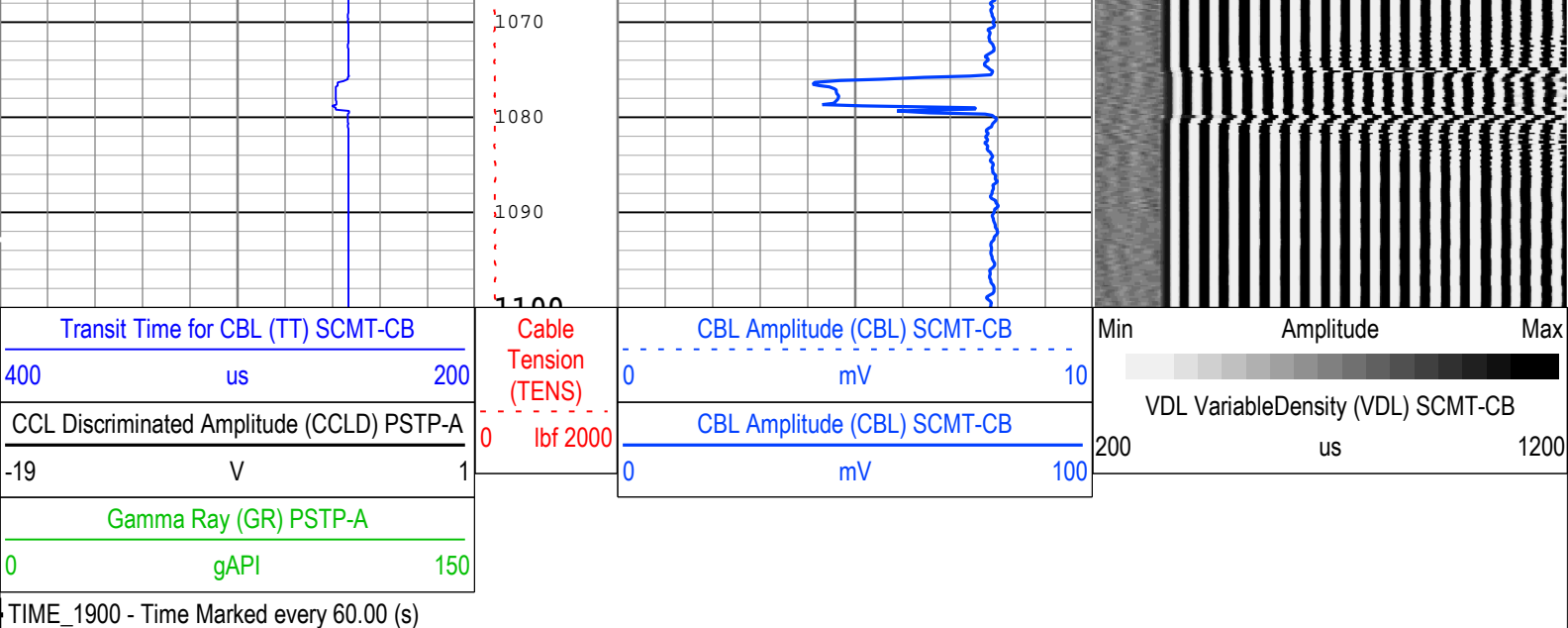
All depths are referenced to toolstring zero

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: 23-Jul-2018 22:47:08

■ BIEP - Bond Index Event Pips SCMT-CB

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: 23-Jul-2018 22:47:08

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	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.49	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	8322	ft
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	14.81	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-A	24 dB	

One

RST Sigma Main Pass

Software Version	
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Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Pass Summary	
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Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[4]:Up	Up	2140.96 ft	9082.94 ft	23-Jul-2018 6:43:18 PM	23-Jul-2018 10:28:36 PM	ON	7.49 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Caerus Operating LLC	Well:Puckett 15A-26
		One: Log[4]:Up:S004

Well:Puckett 15A-26

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: 23-Jul-2018 22:47:10
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—IHV - Integrated Hole Volume every 10.00 (ft3)

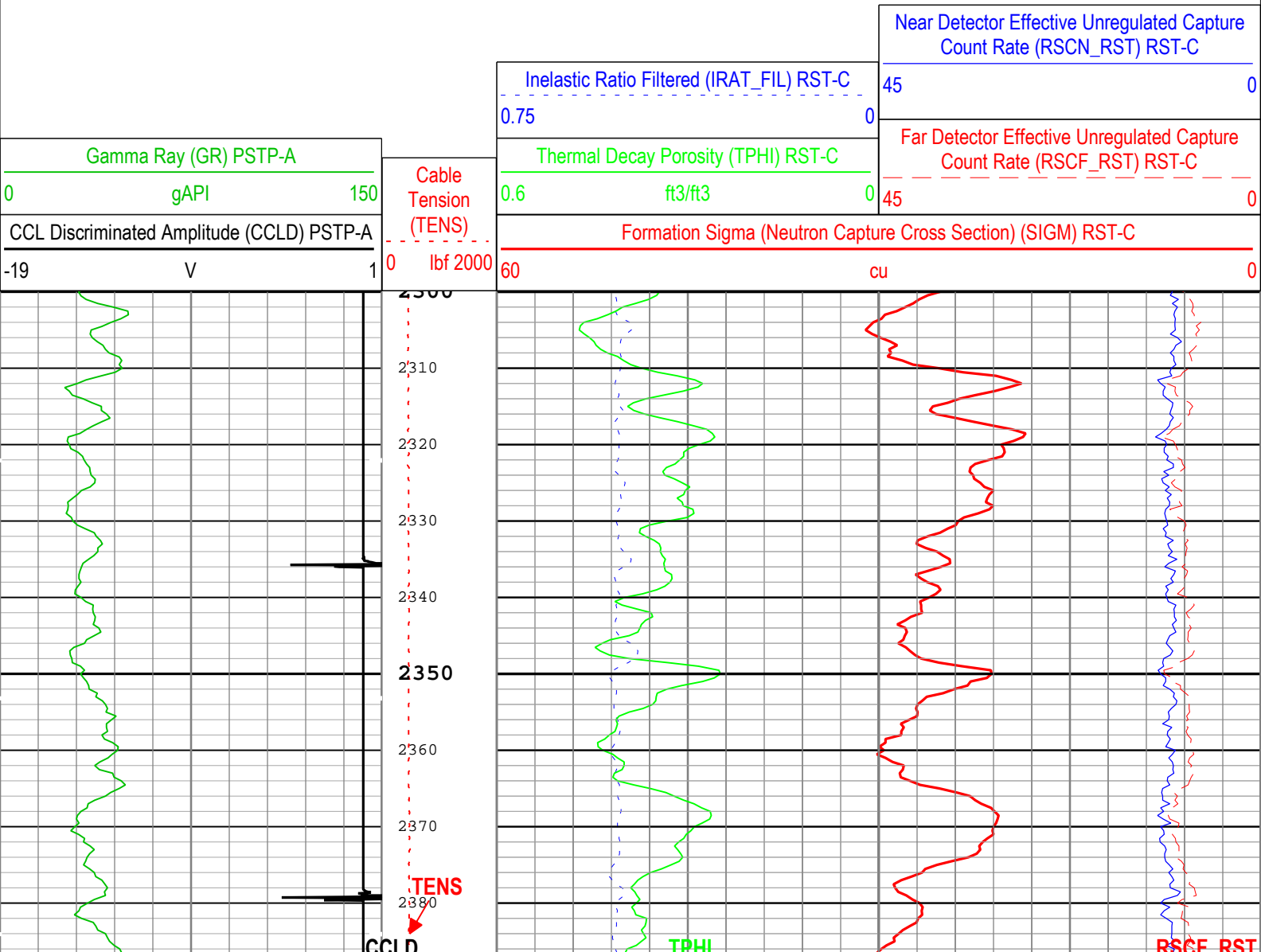
—| IHV - Integrated Hole Volume every 100.00 (ft3)

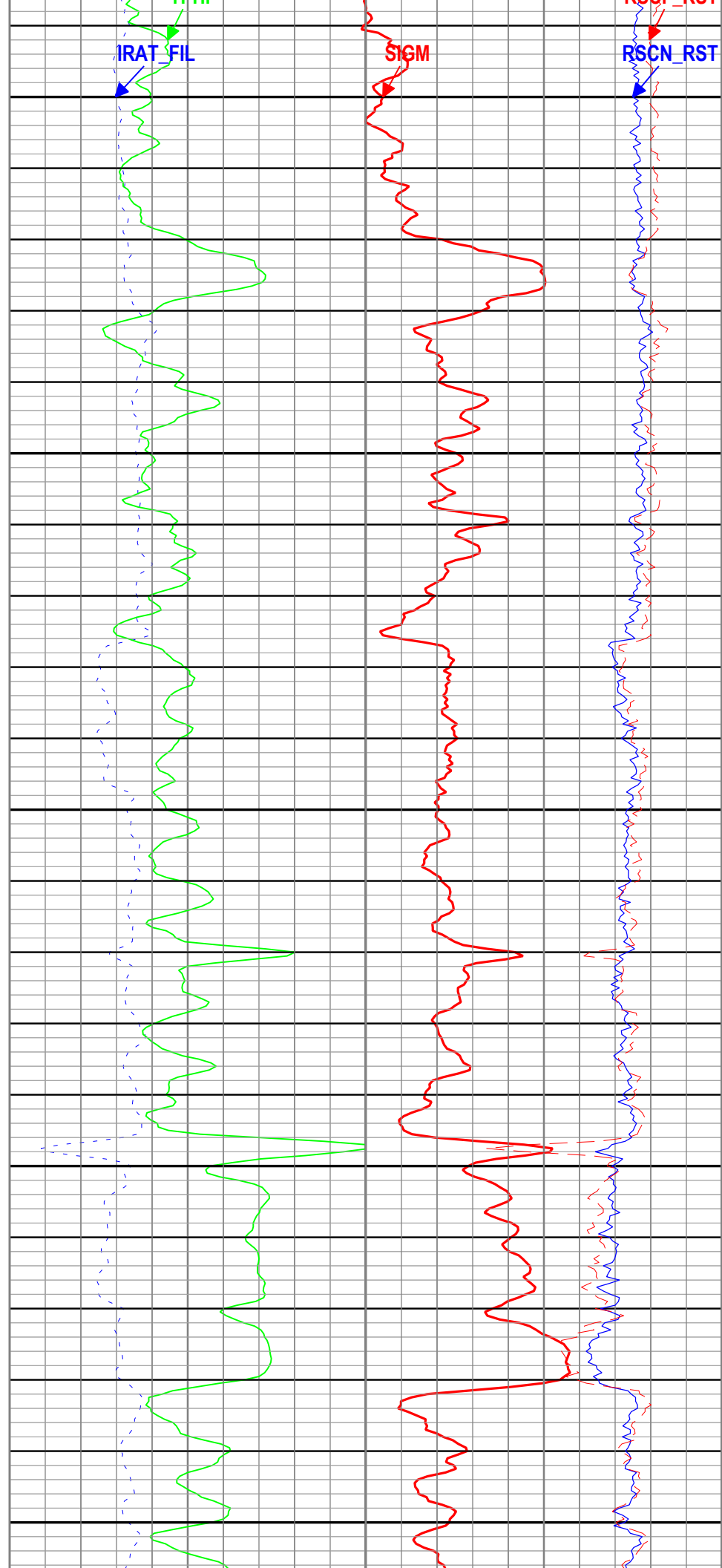
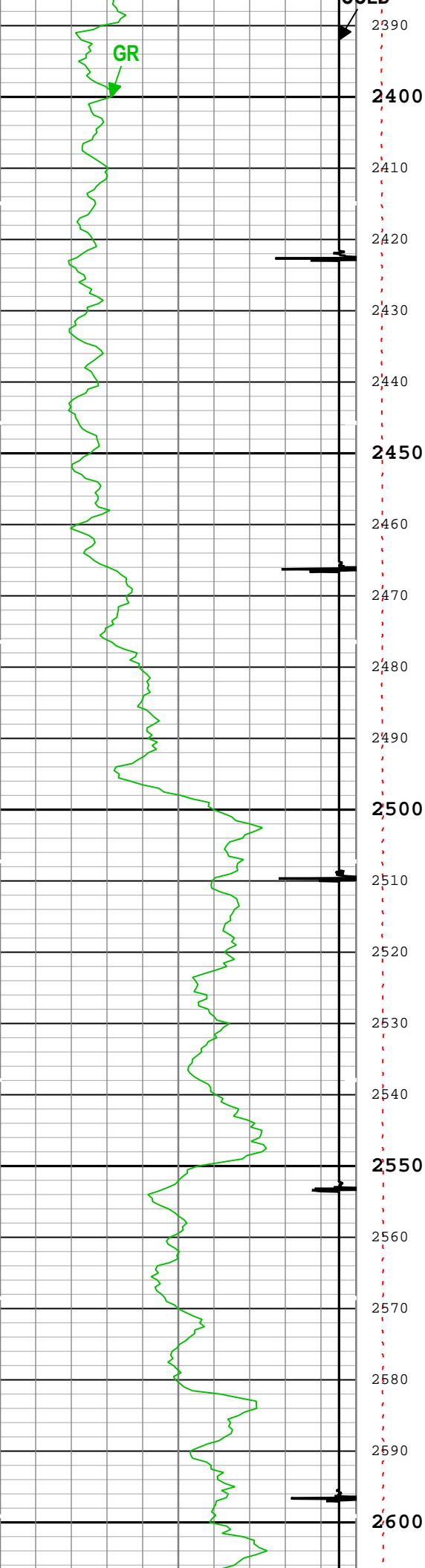
TIME_1900 - Time Marked every 60.00 (s)

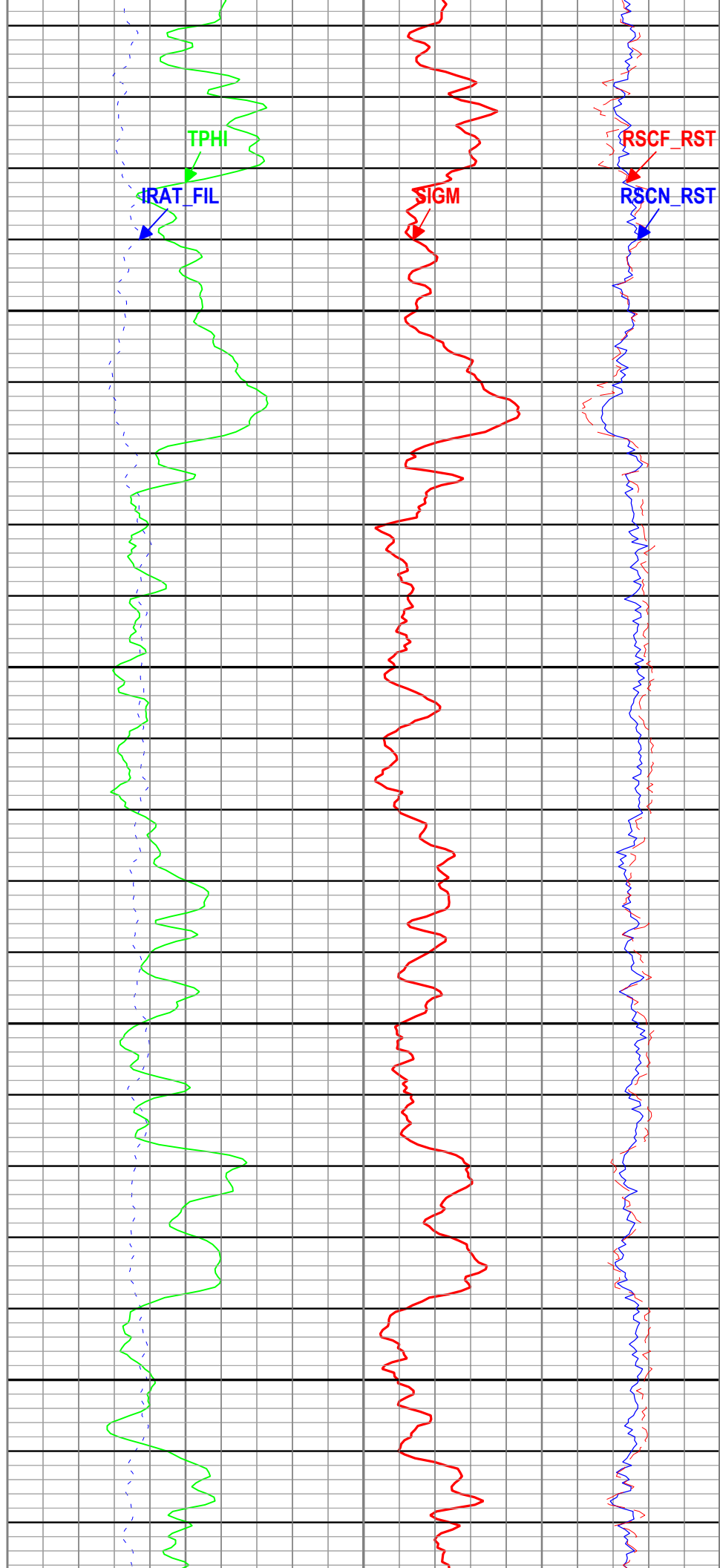
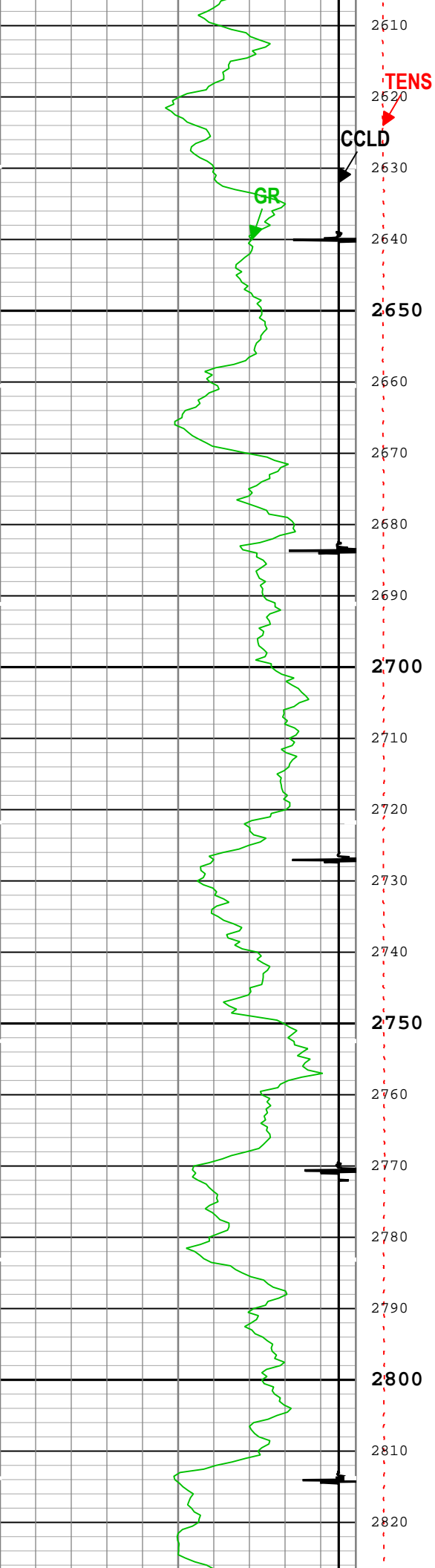
— ICV - Integrated Cement Volume every 10.00 (ft3)

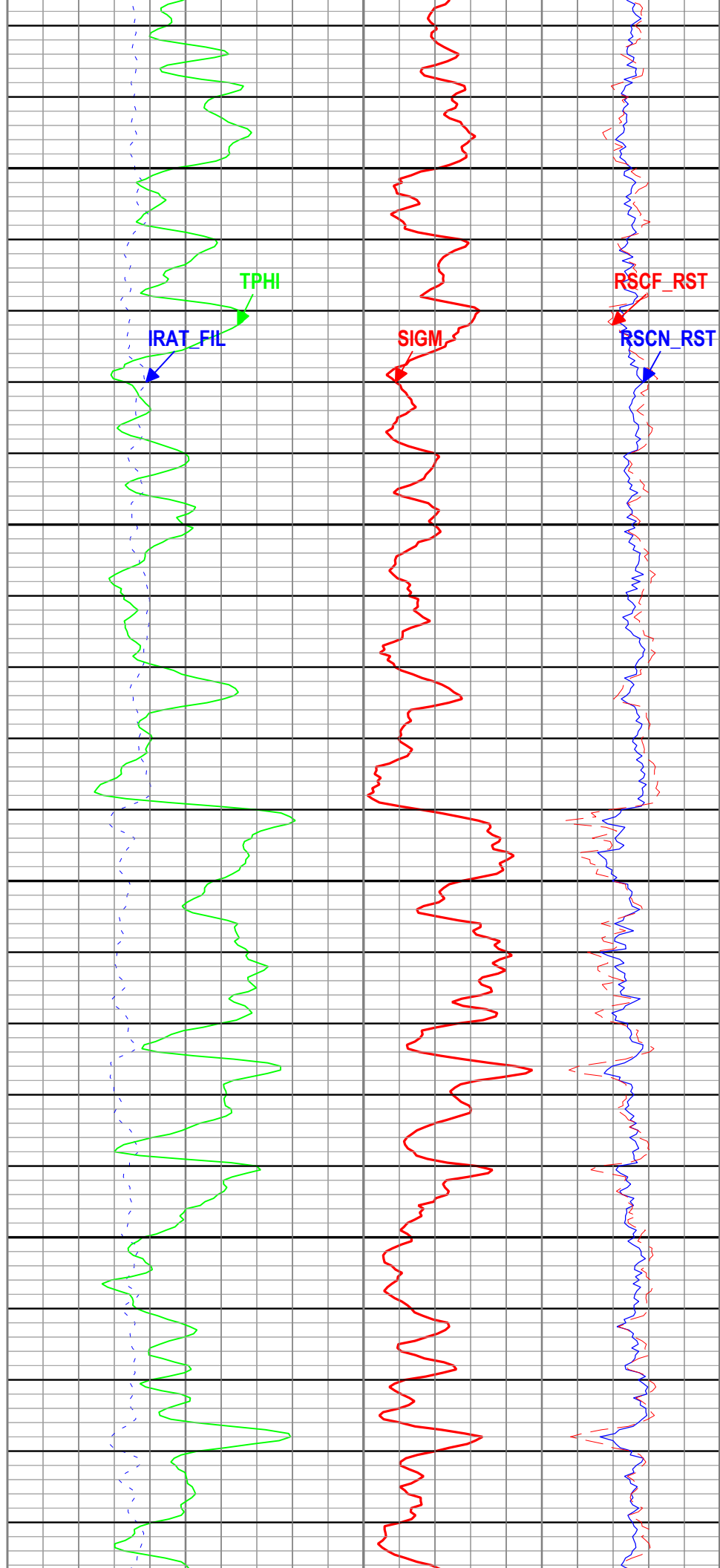
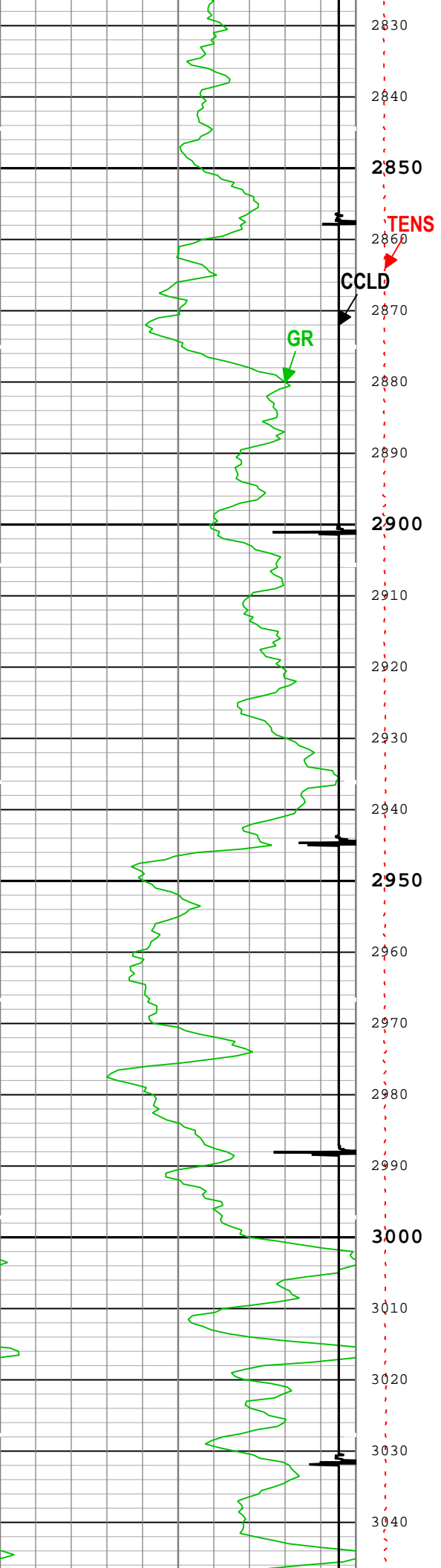
TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)

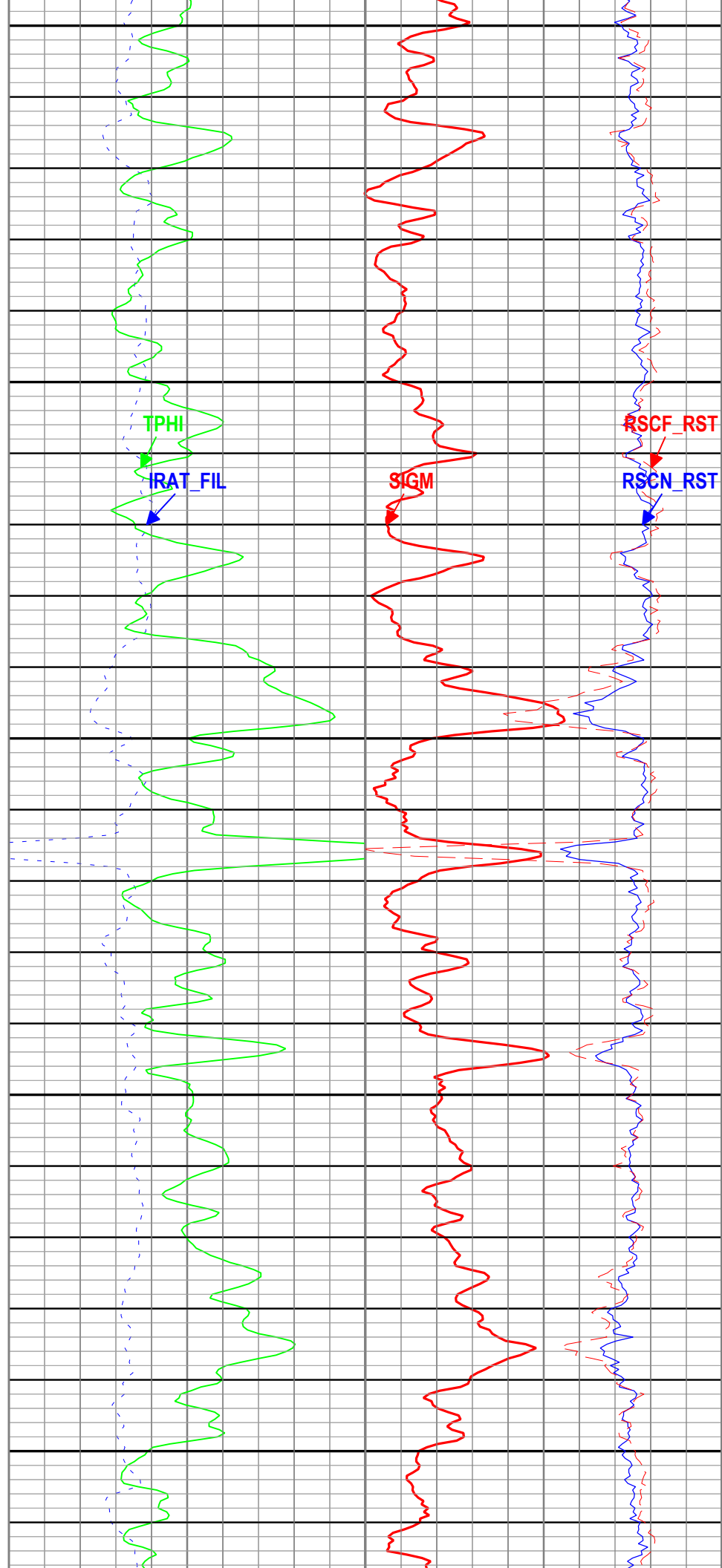
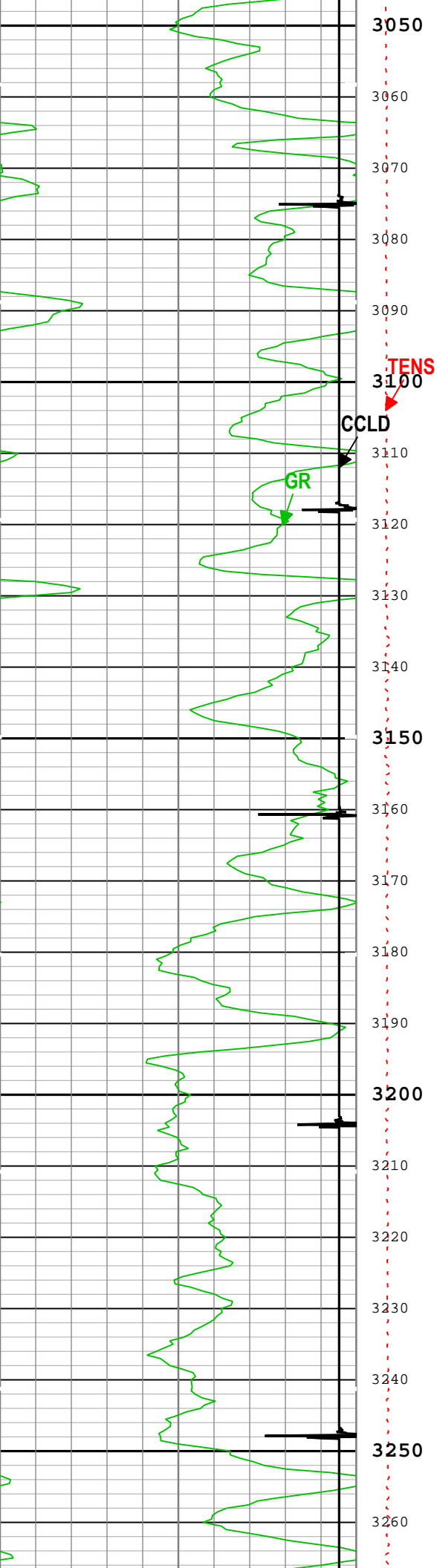
— ICV - Integrated Cement Volume every 100.00 (ft3)

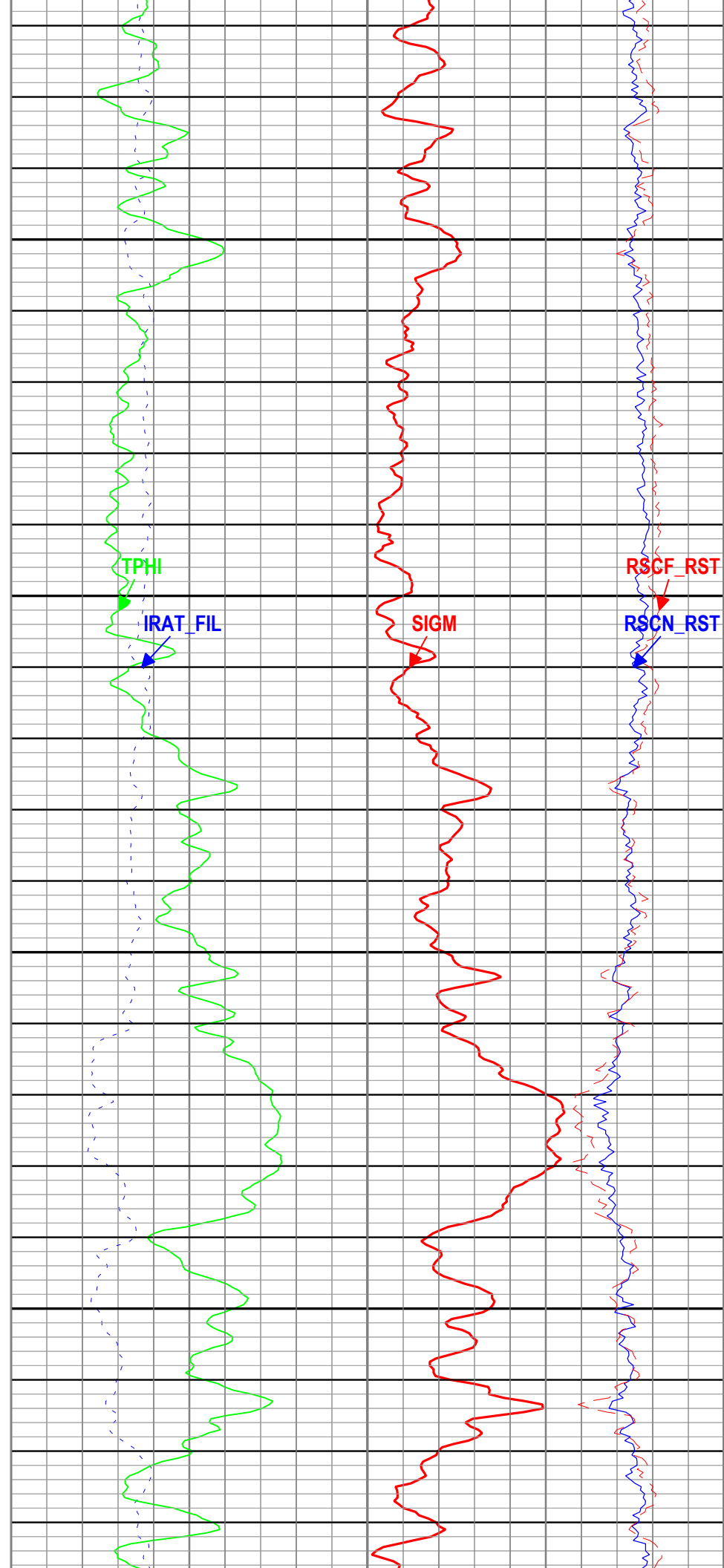
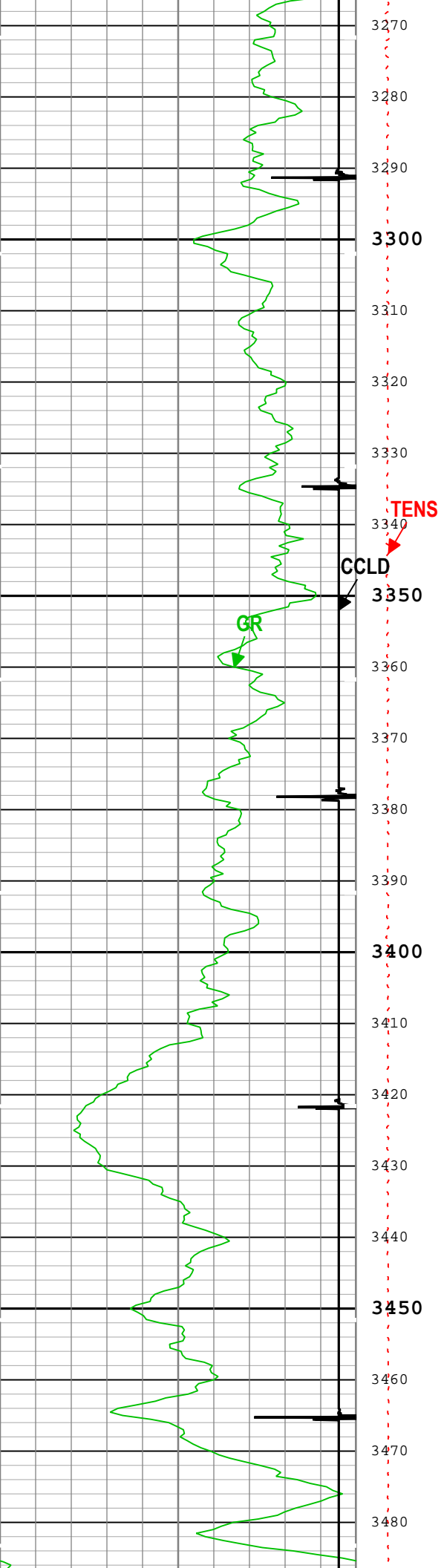


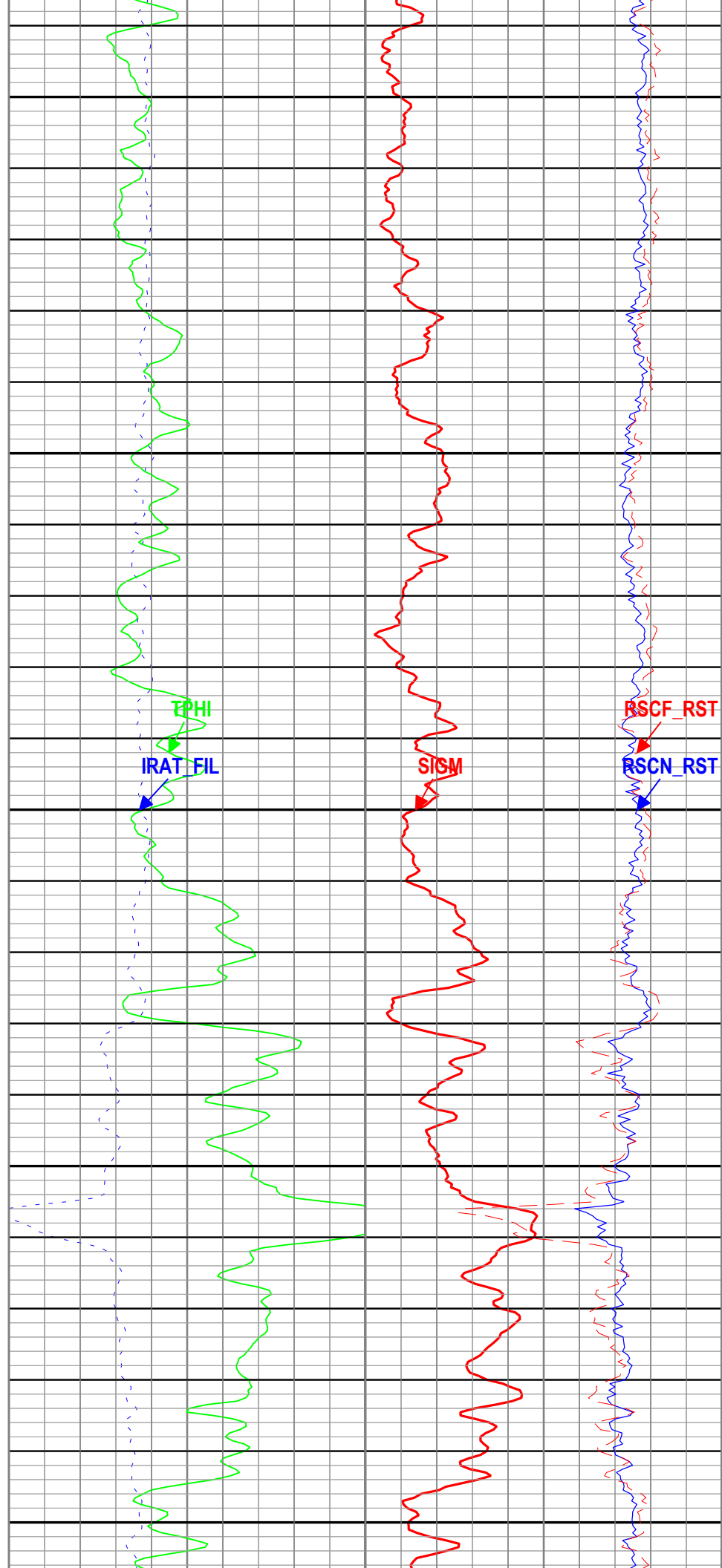
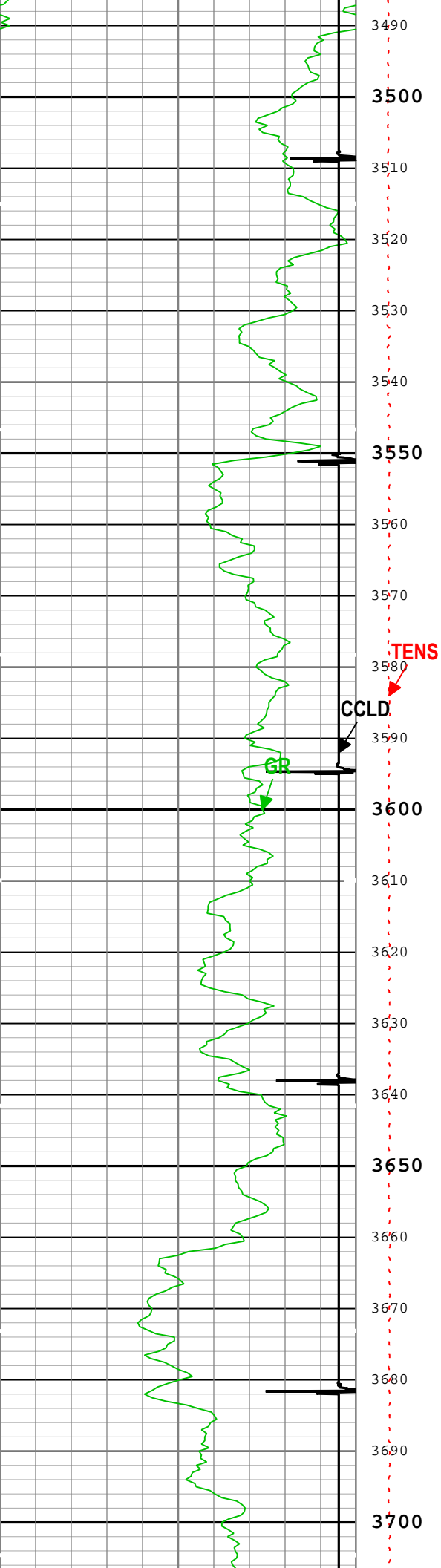


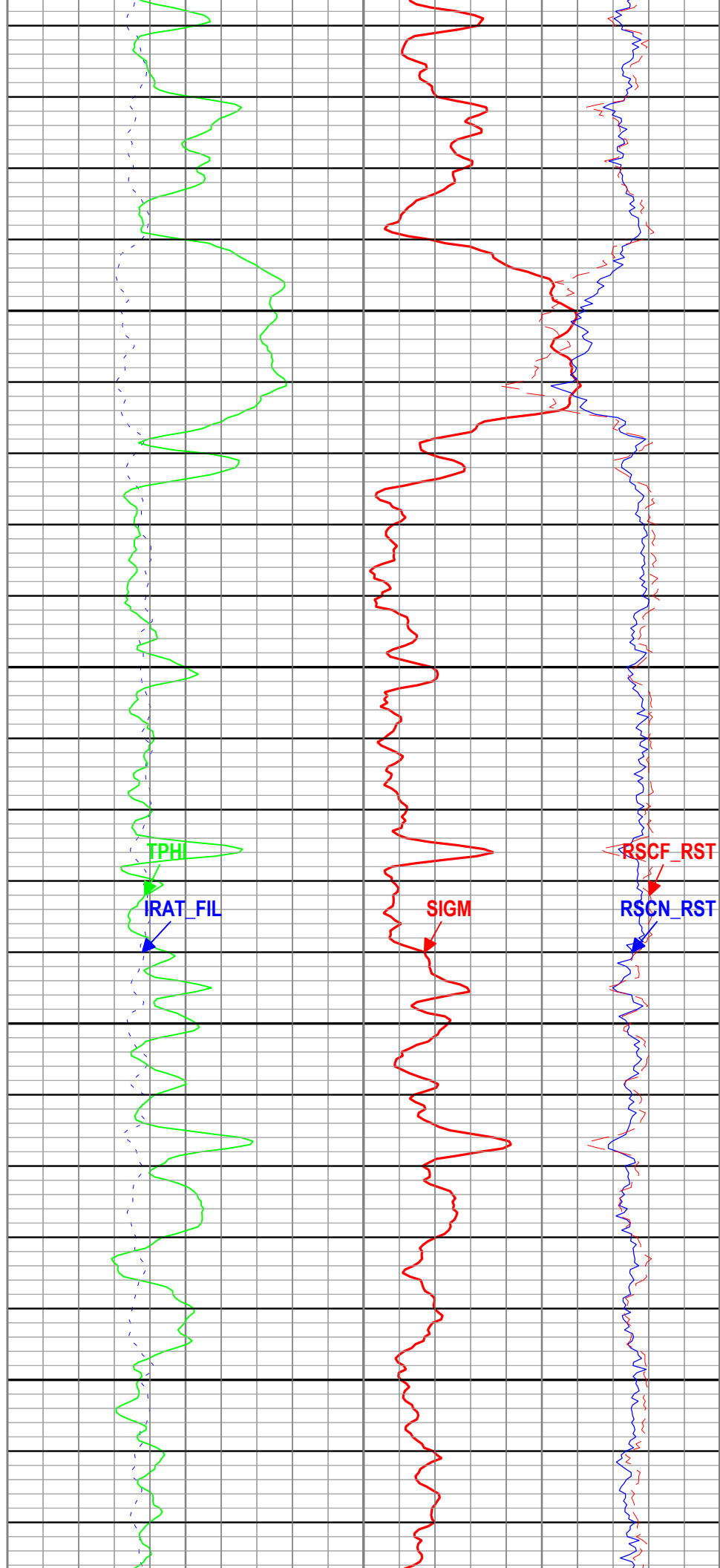
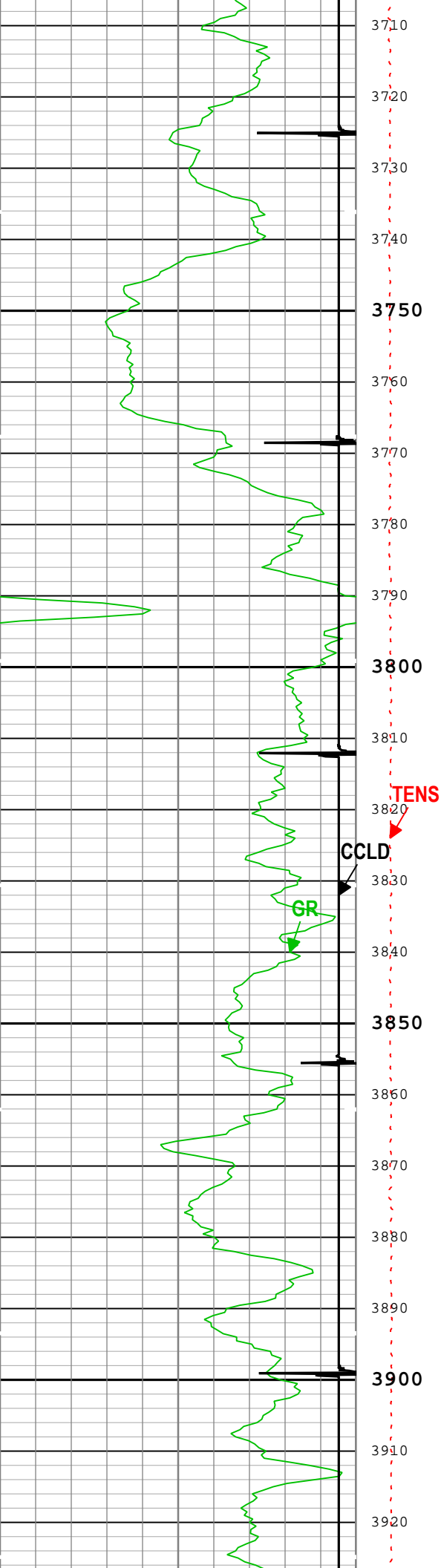


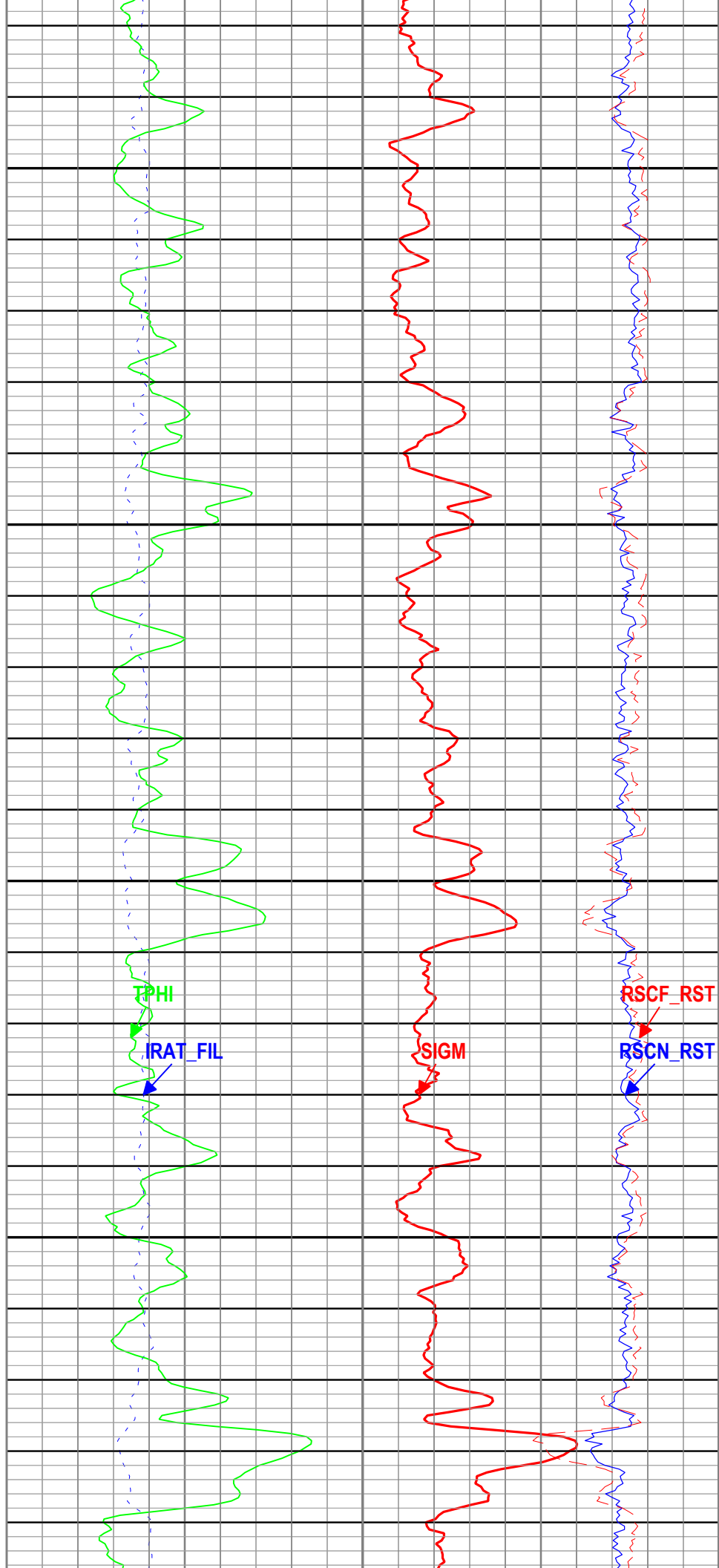
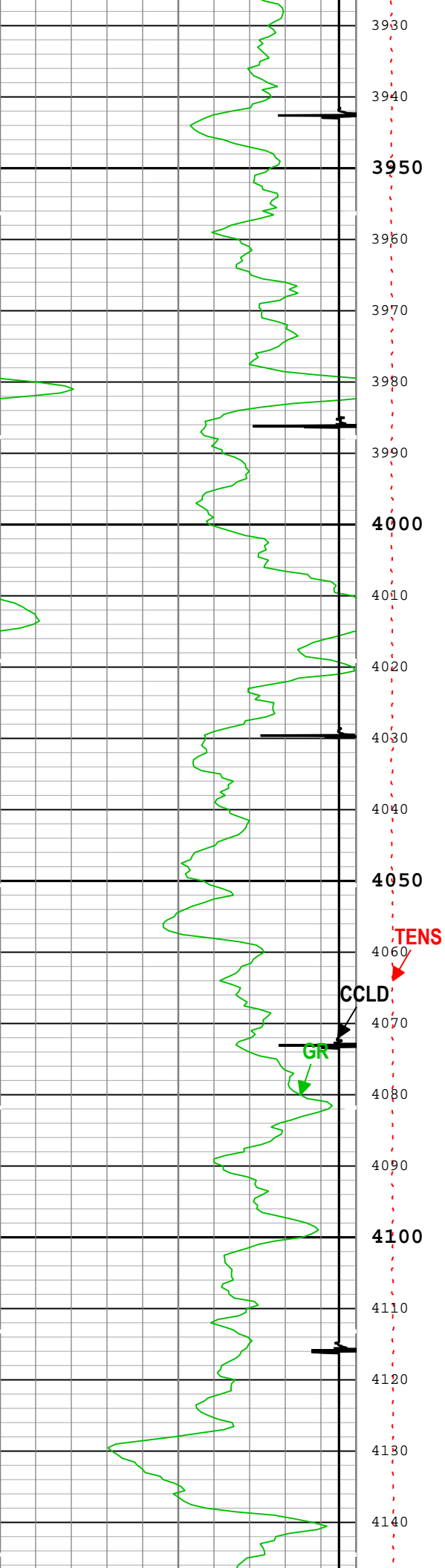


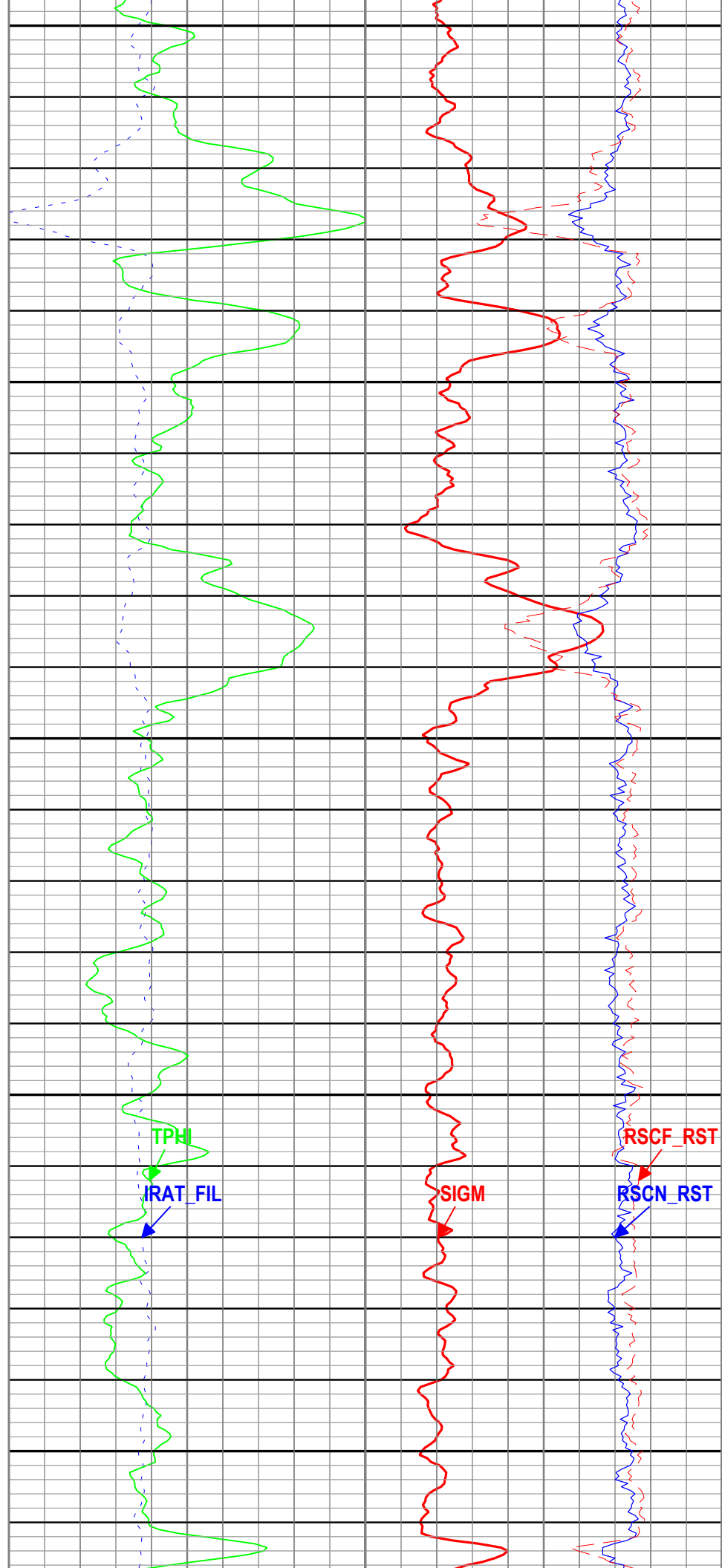
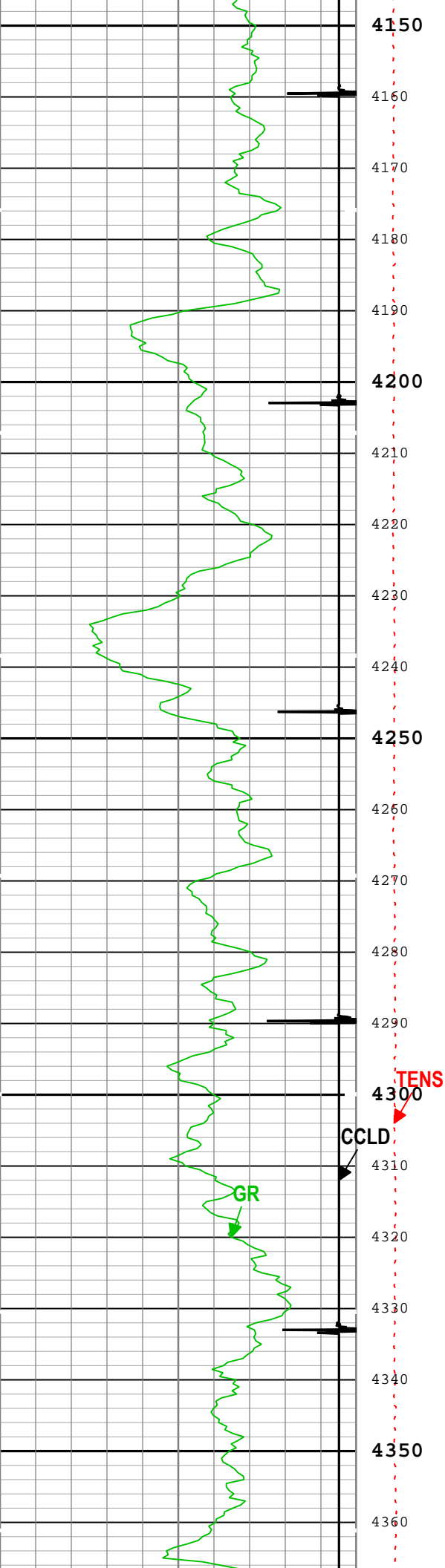


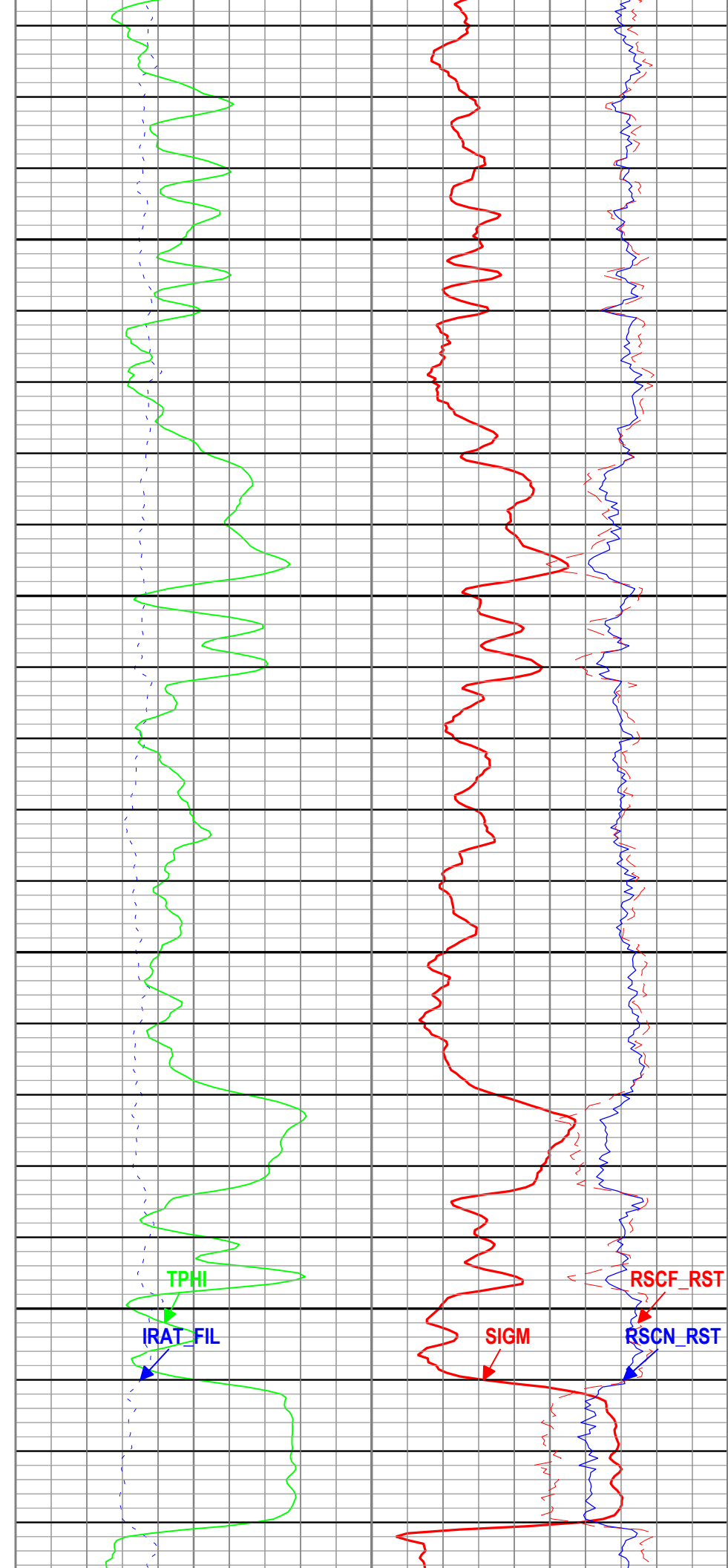
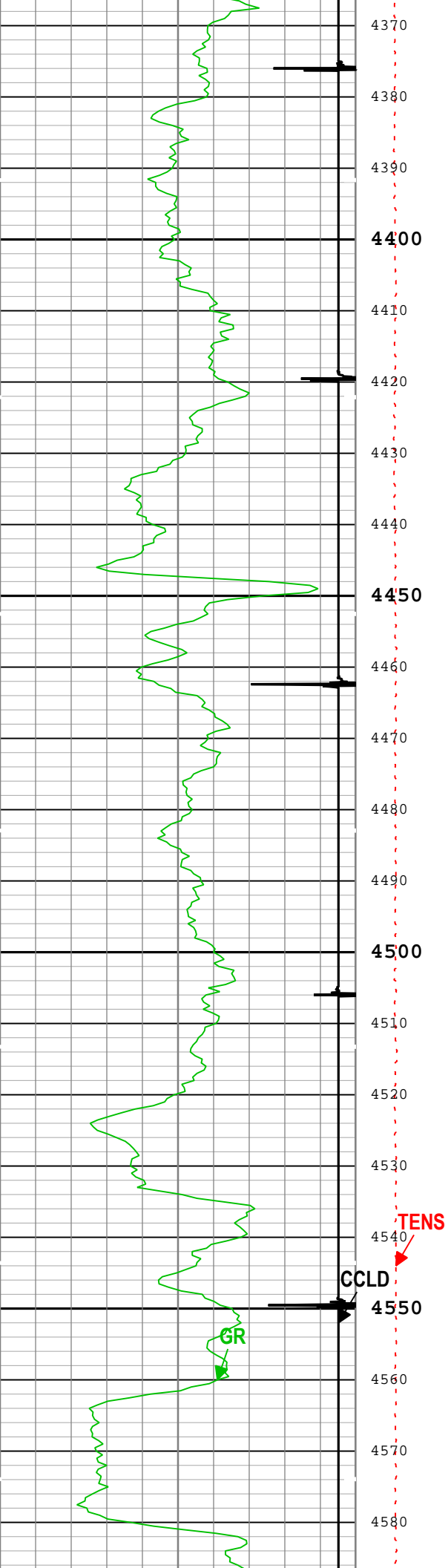


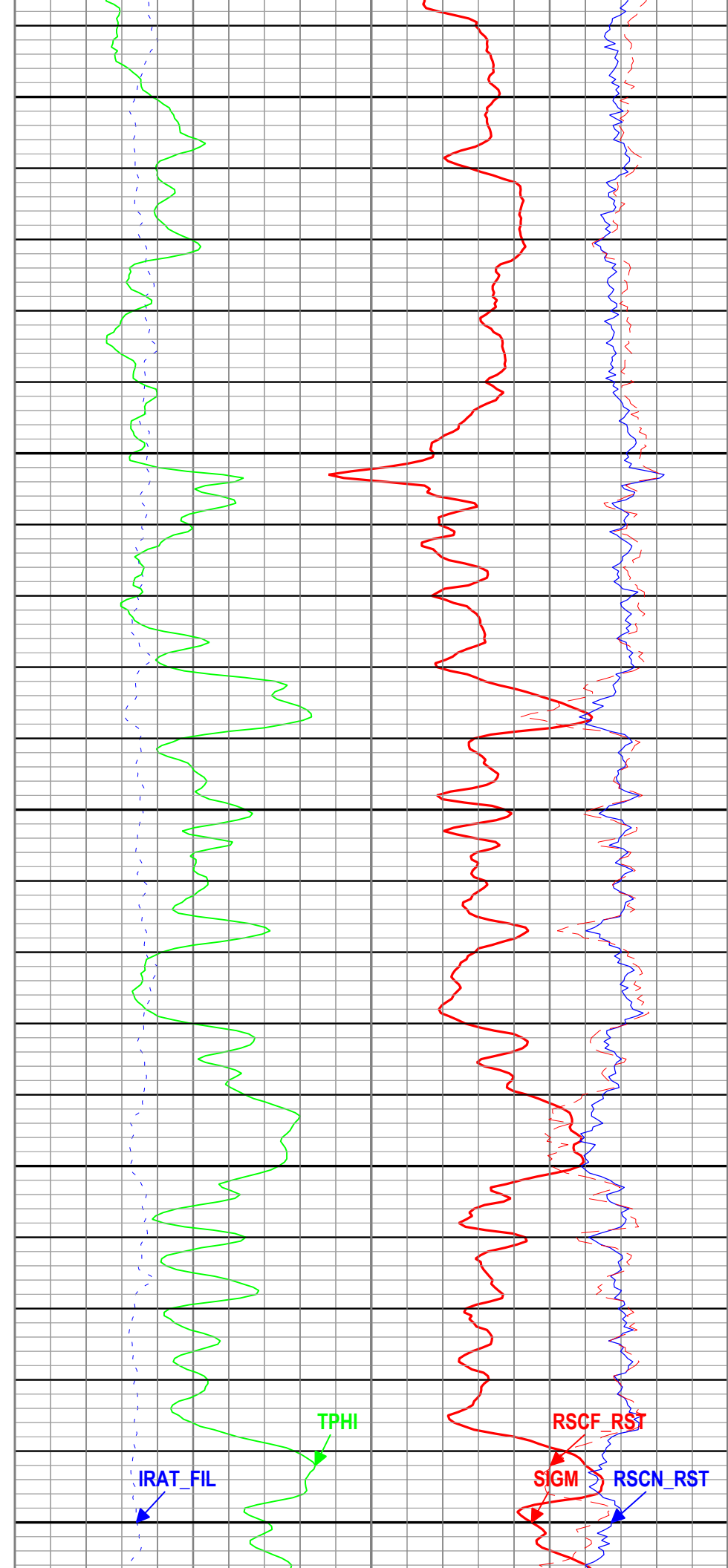
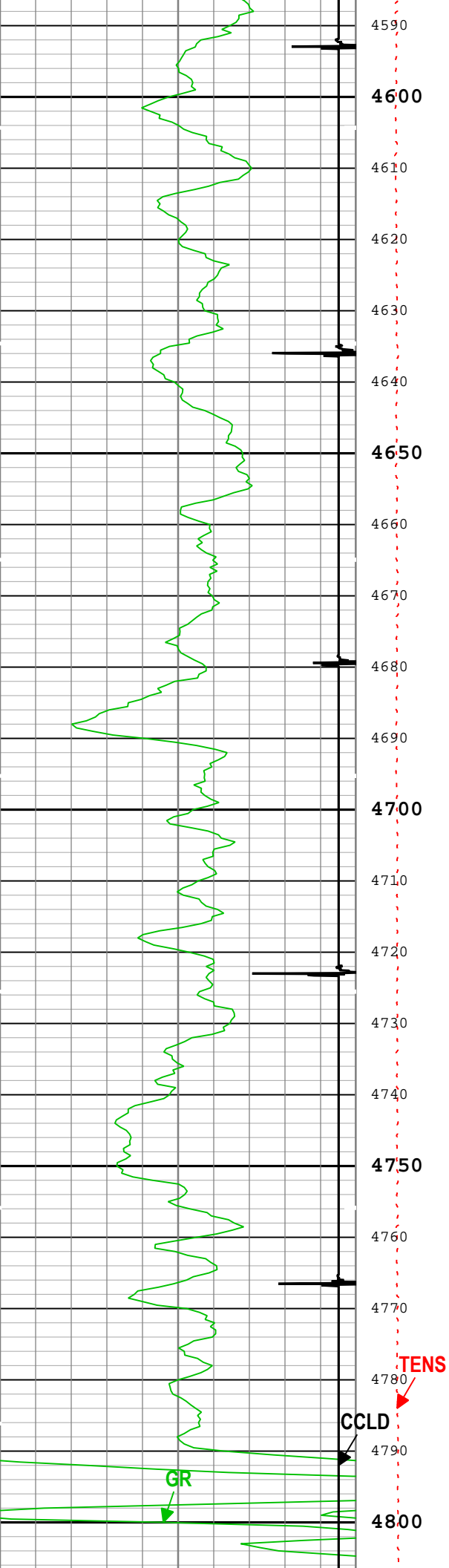


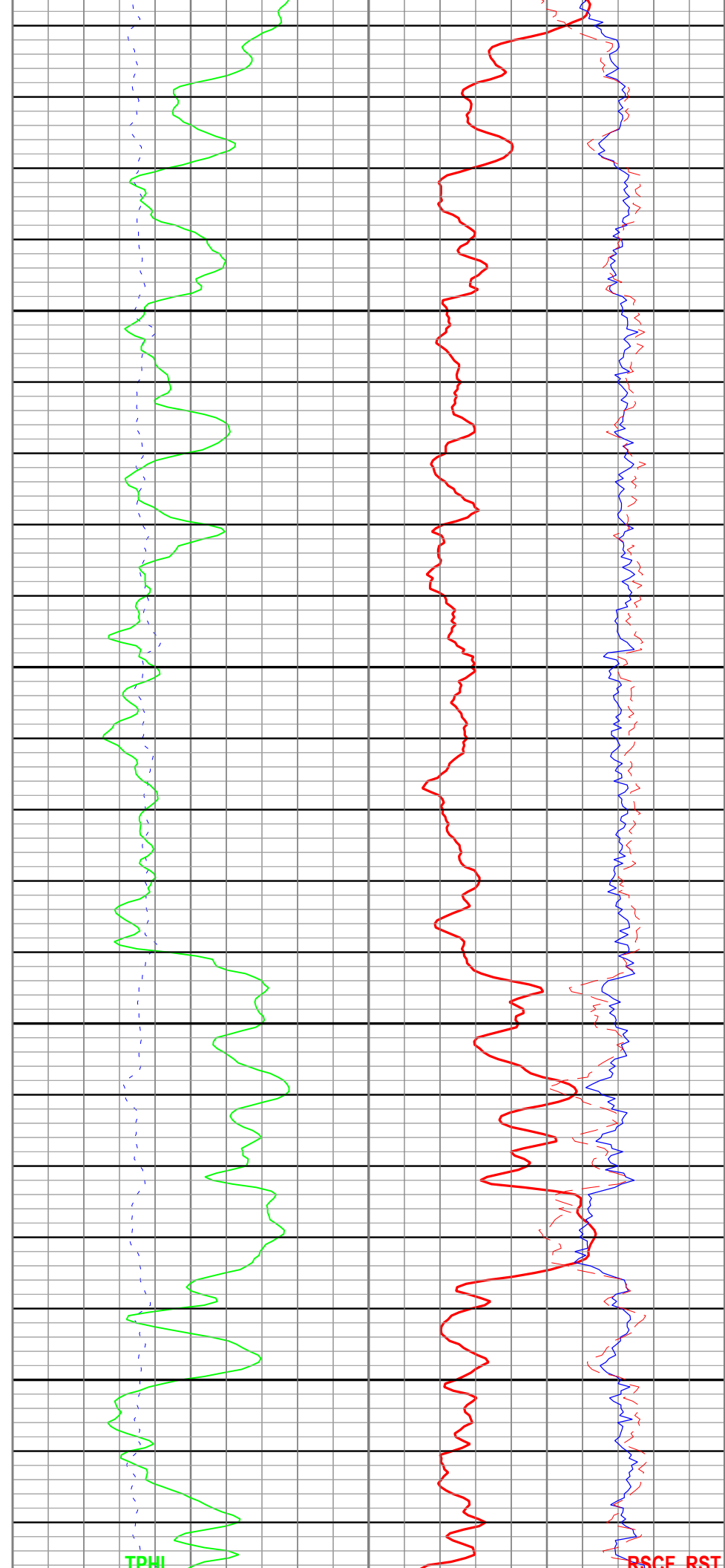
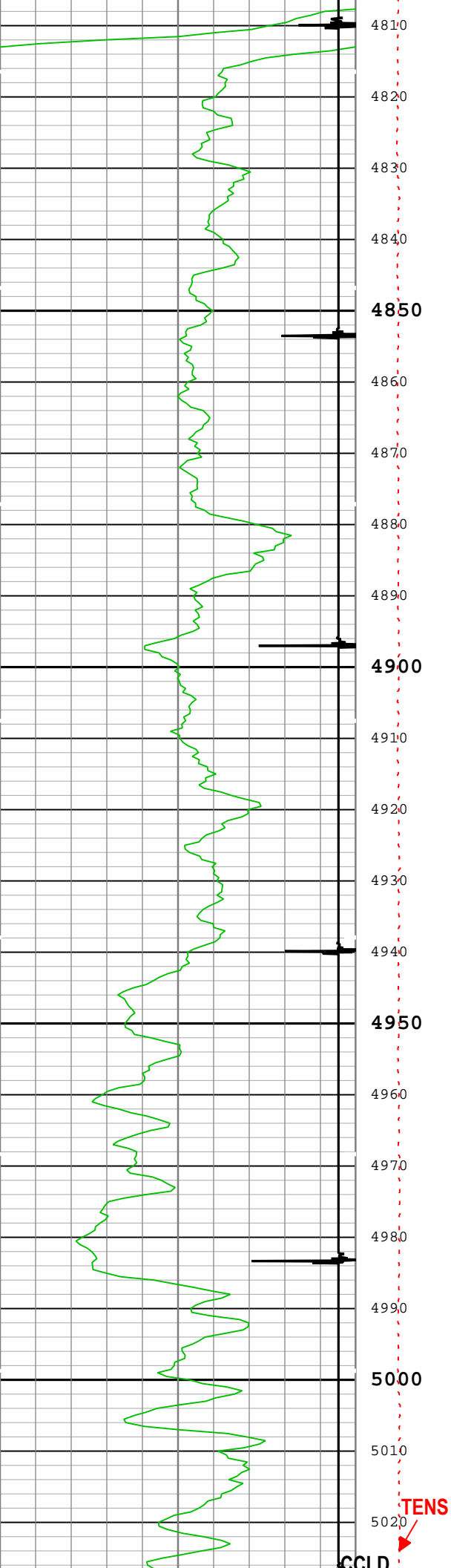


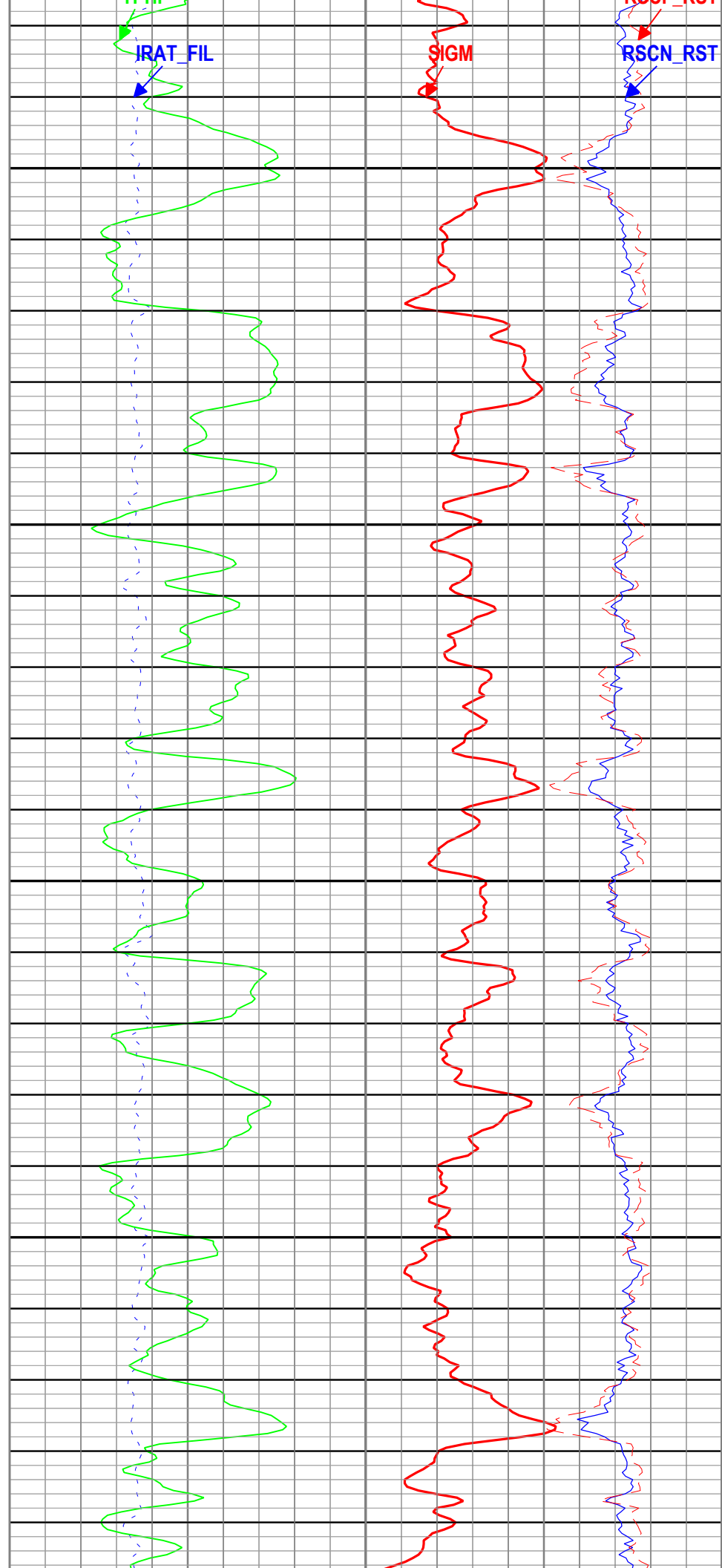
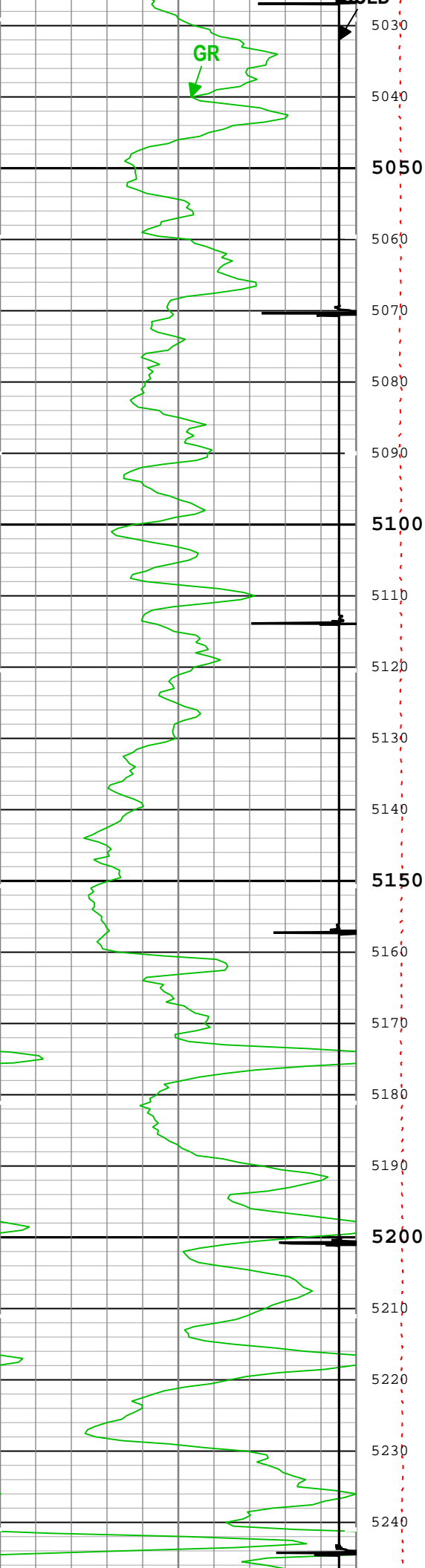


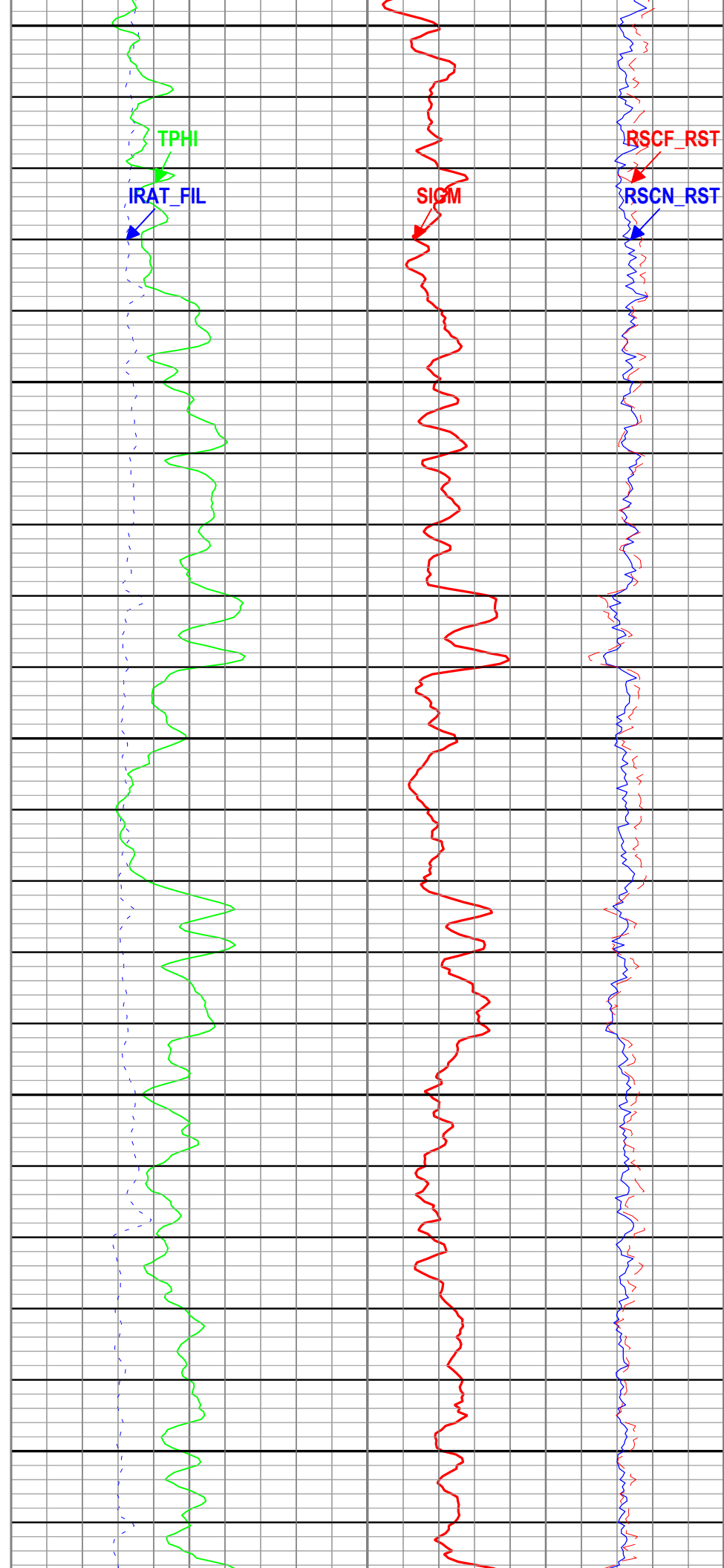
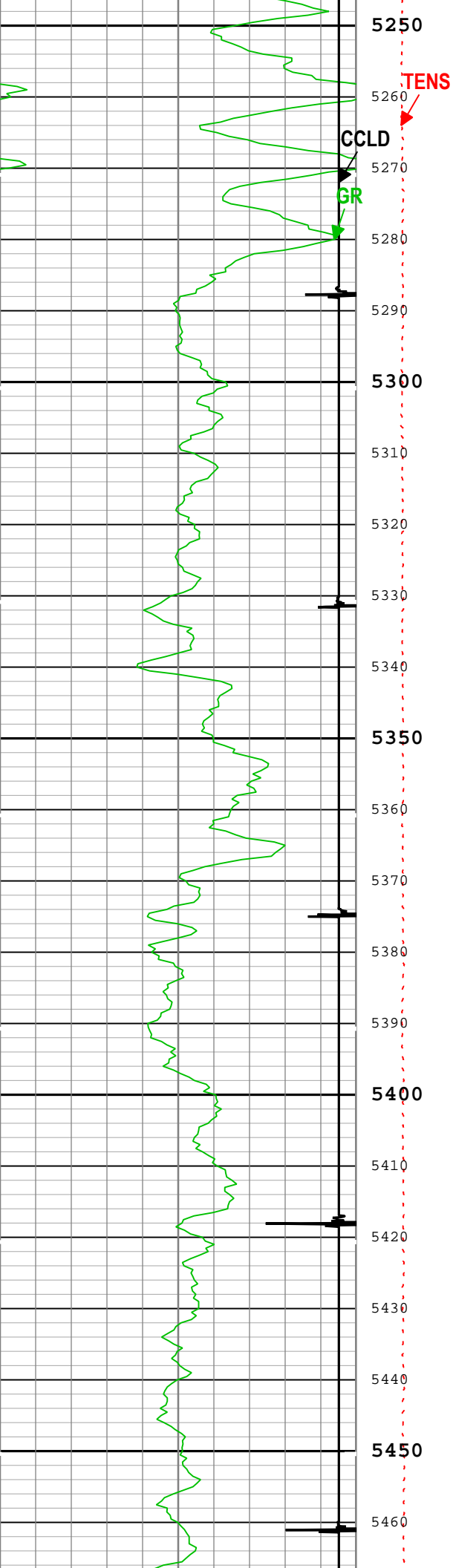


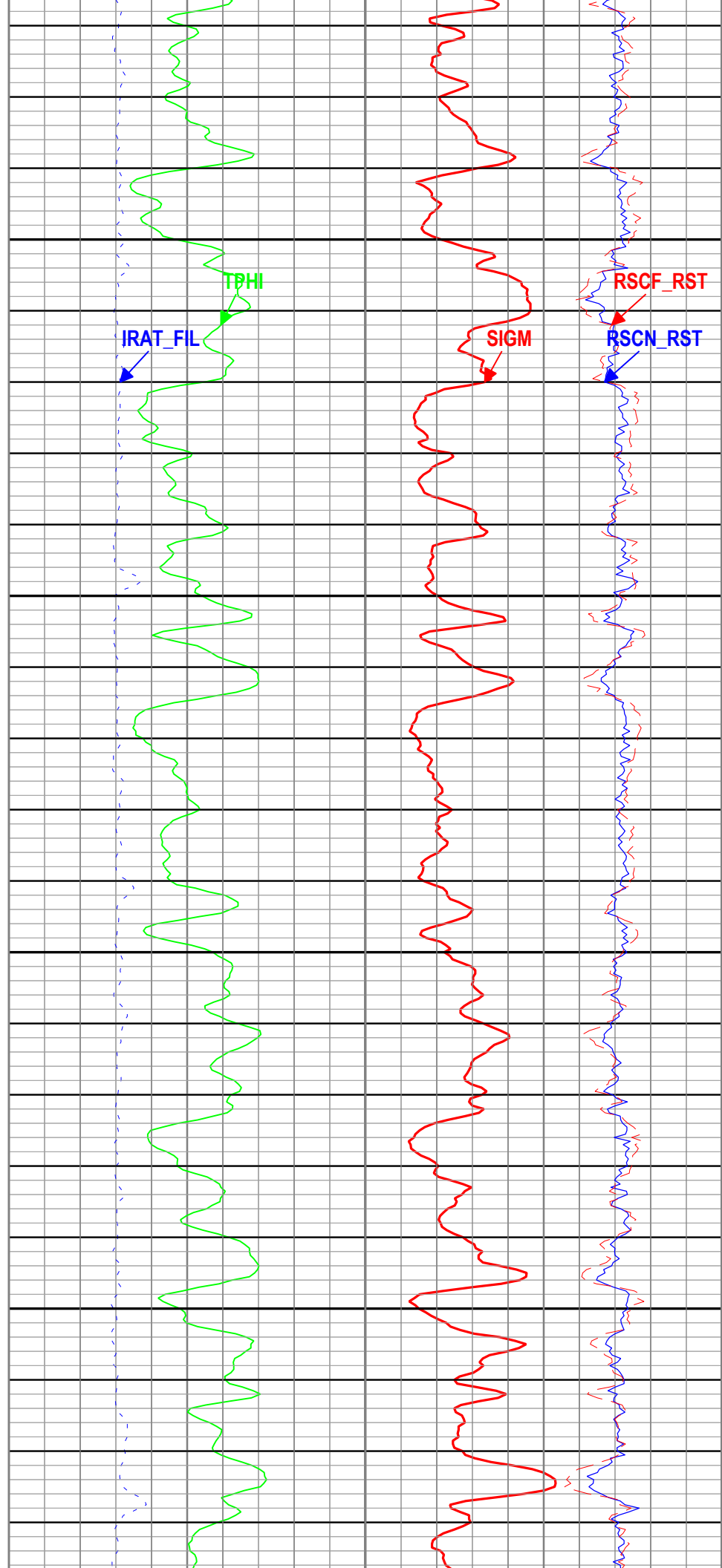
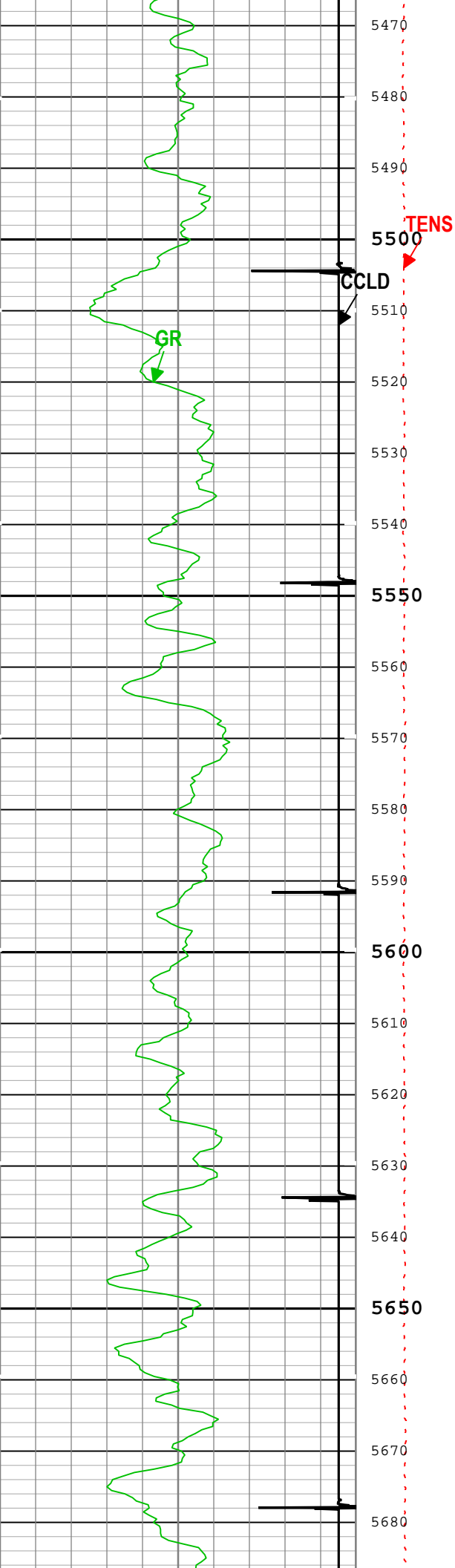


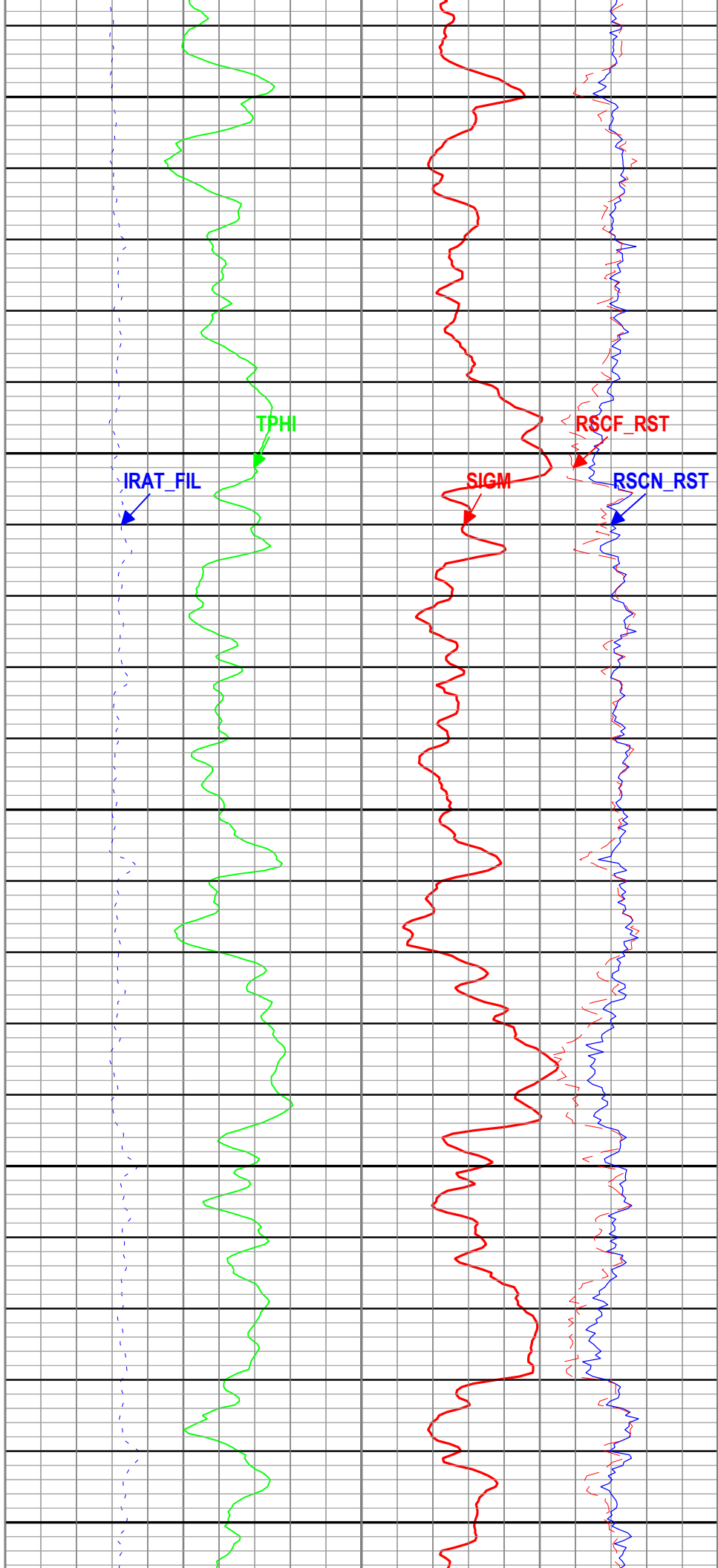
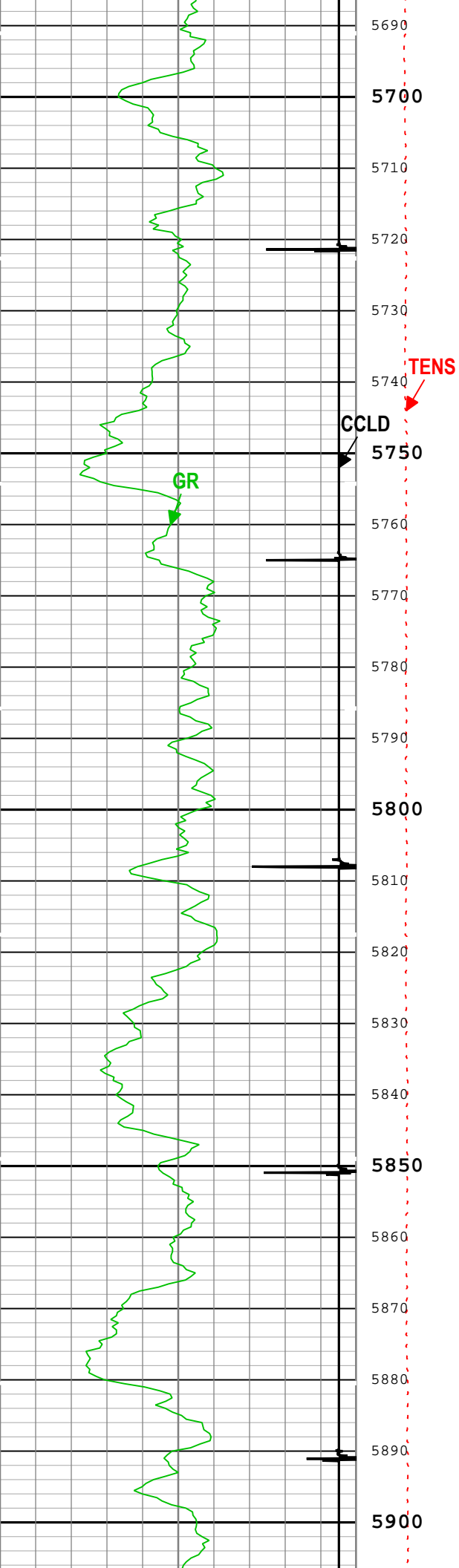


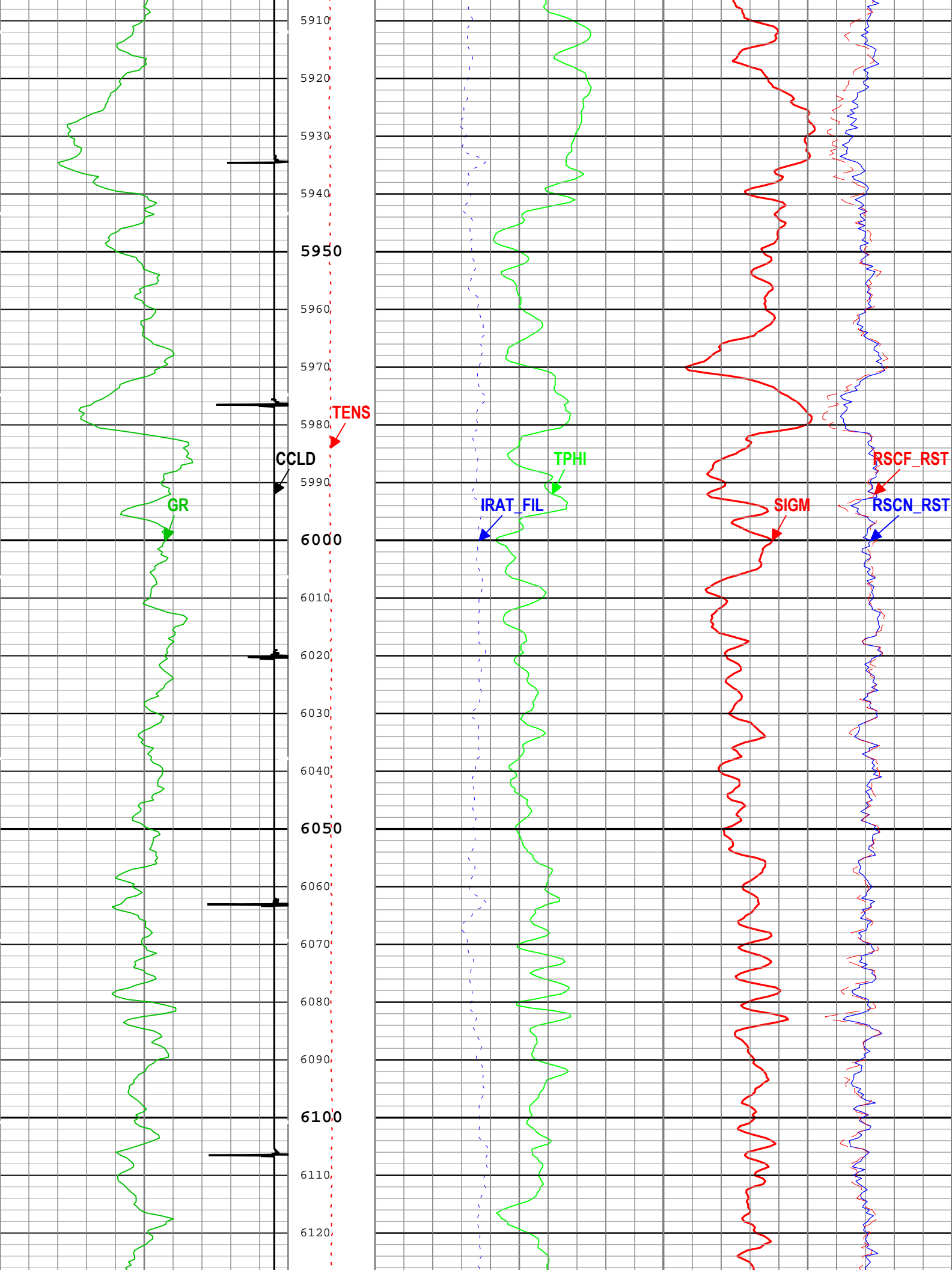


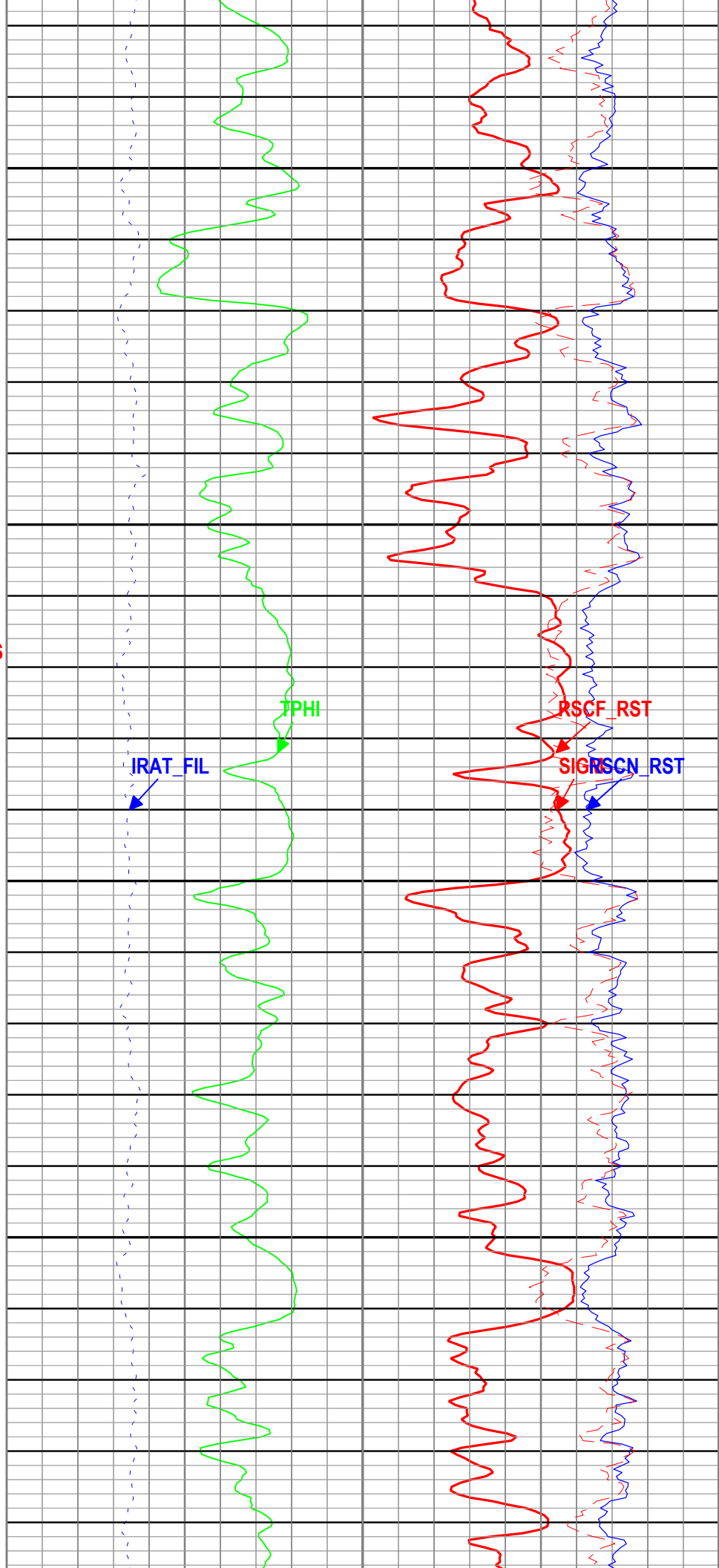
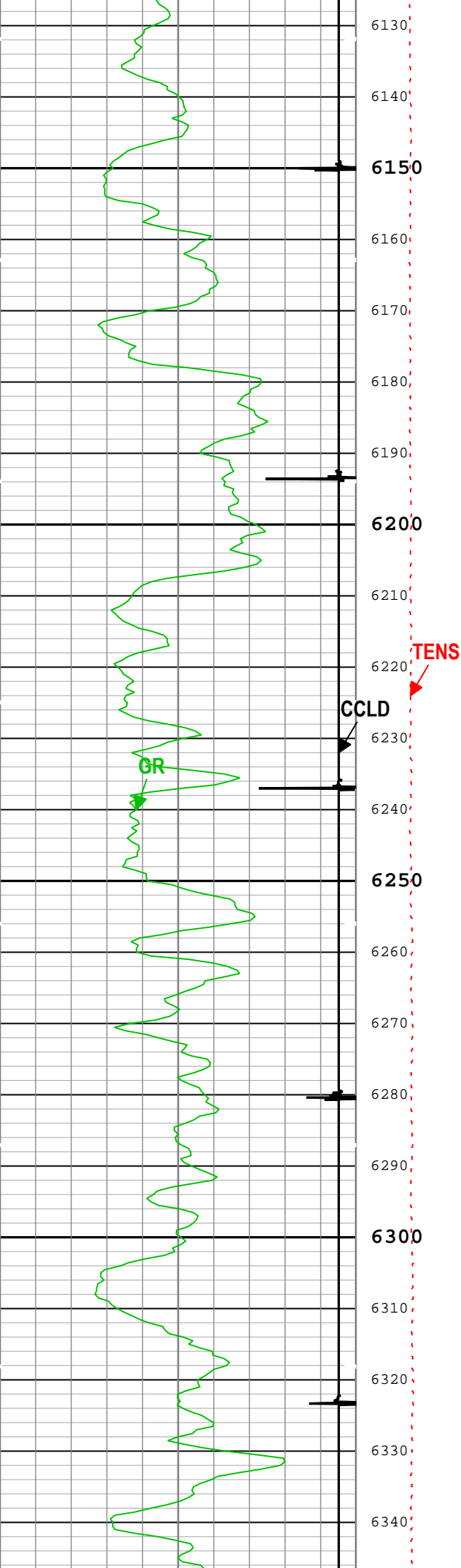


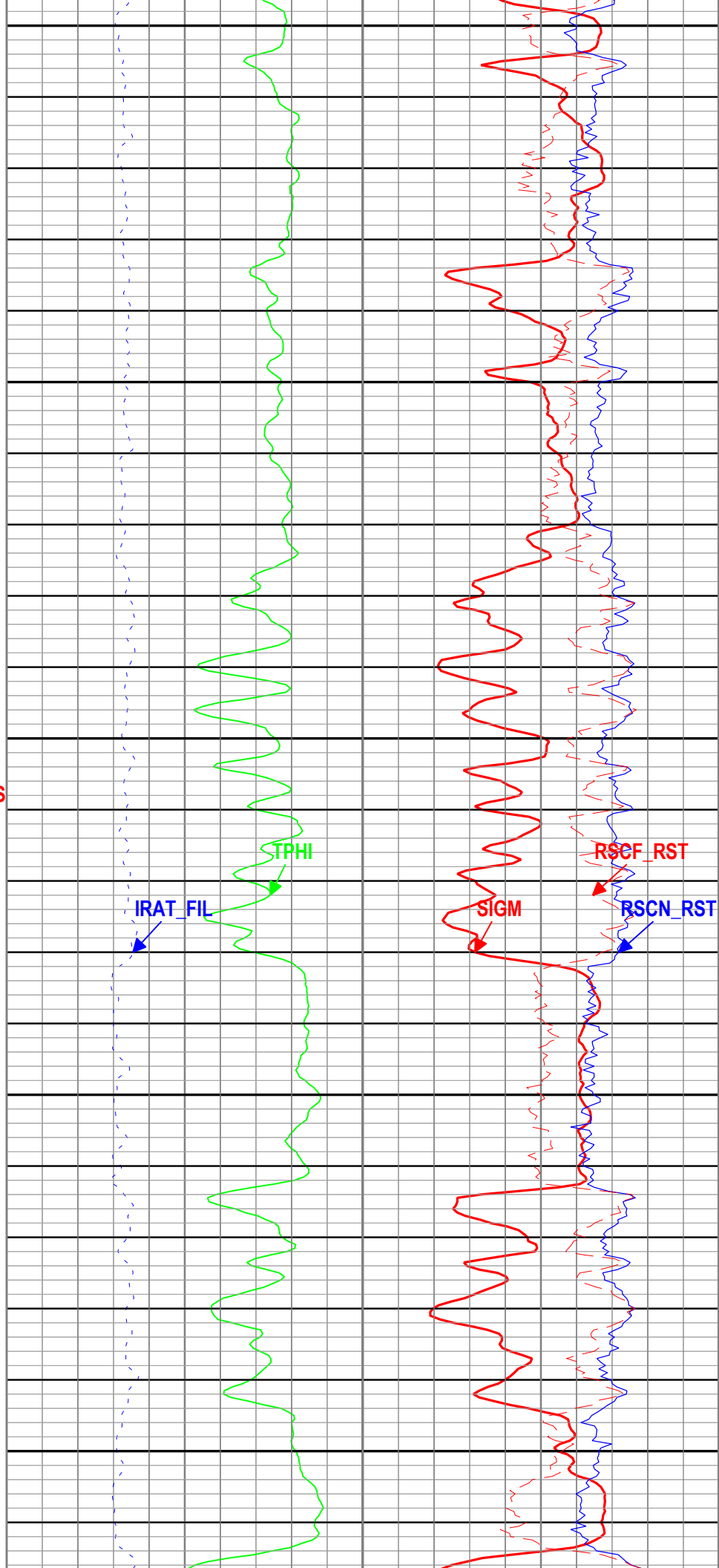
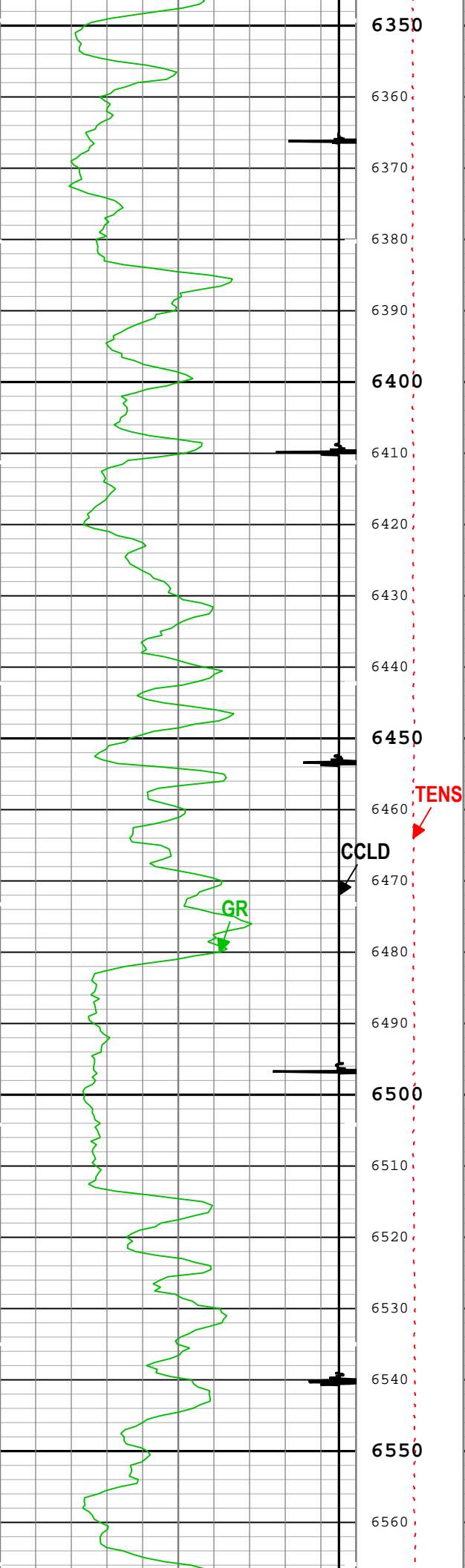


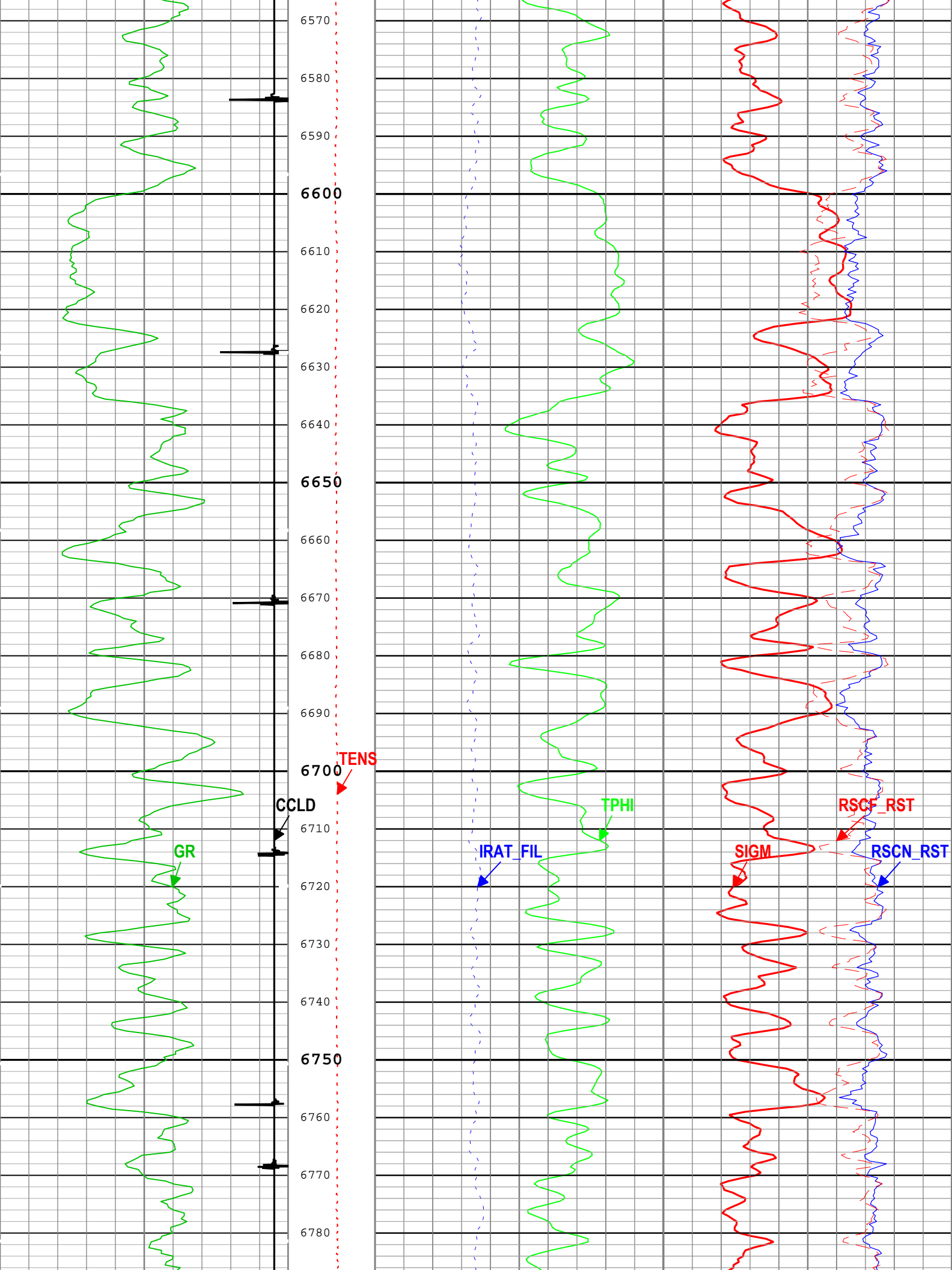


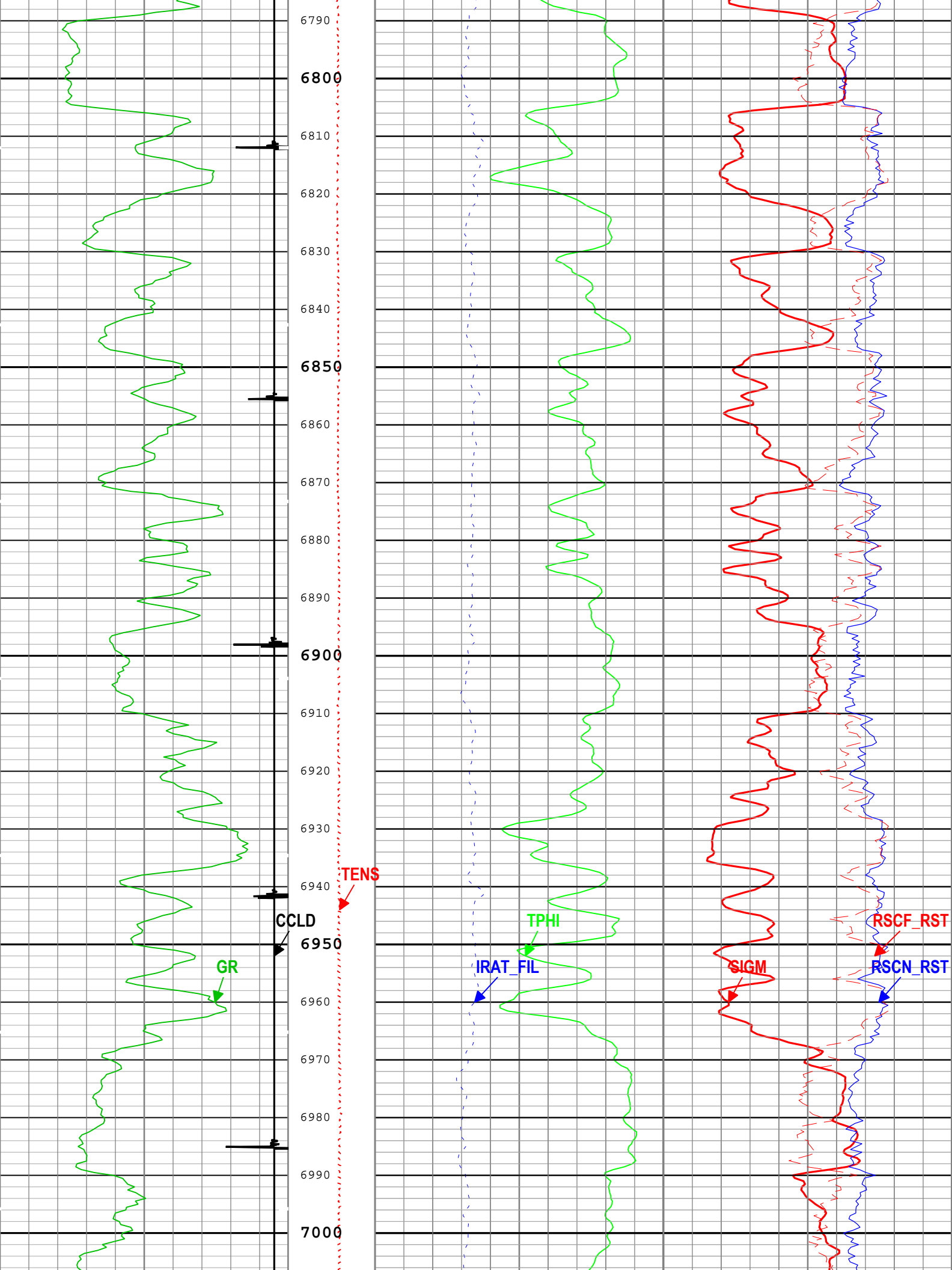


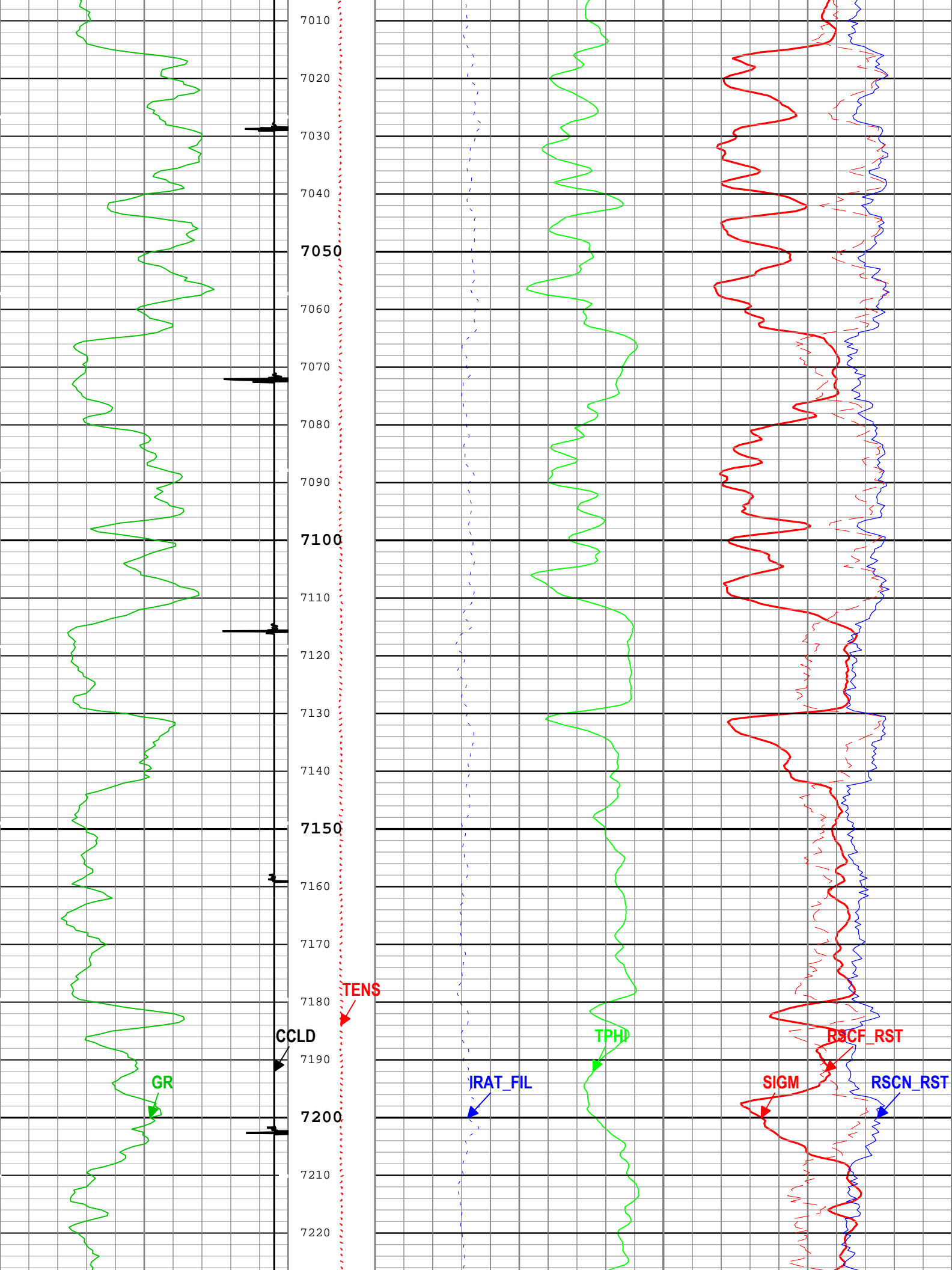


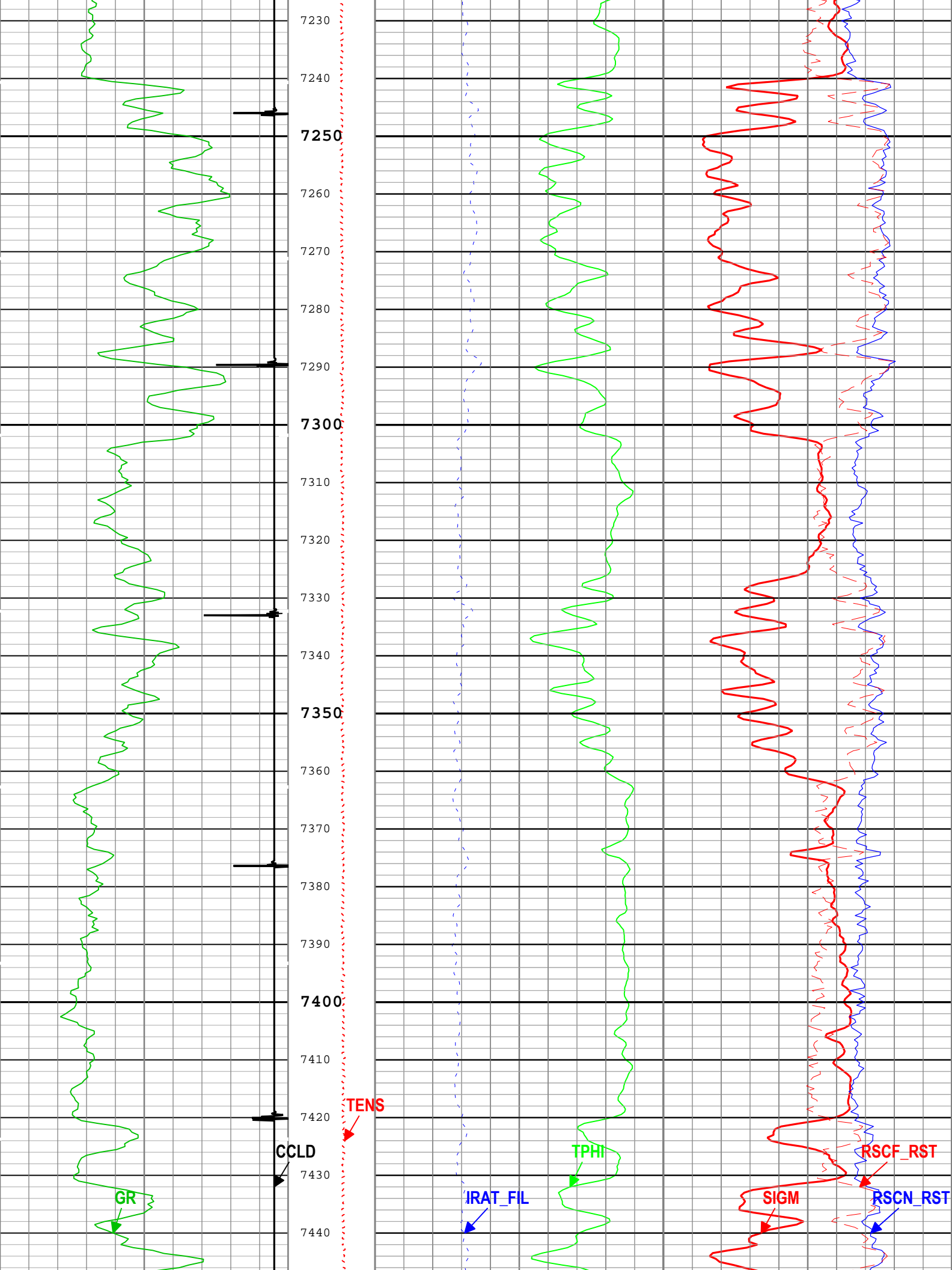


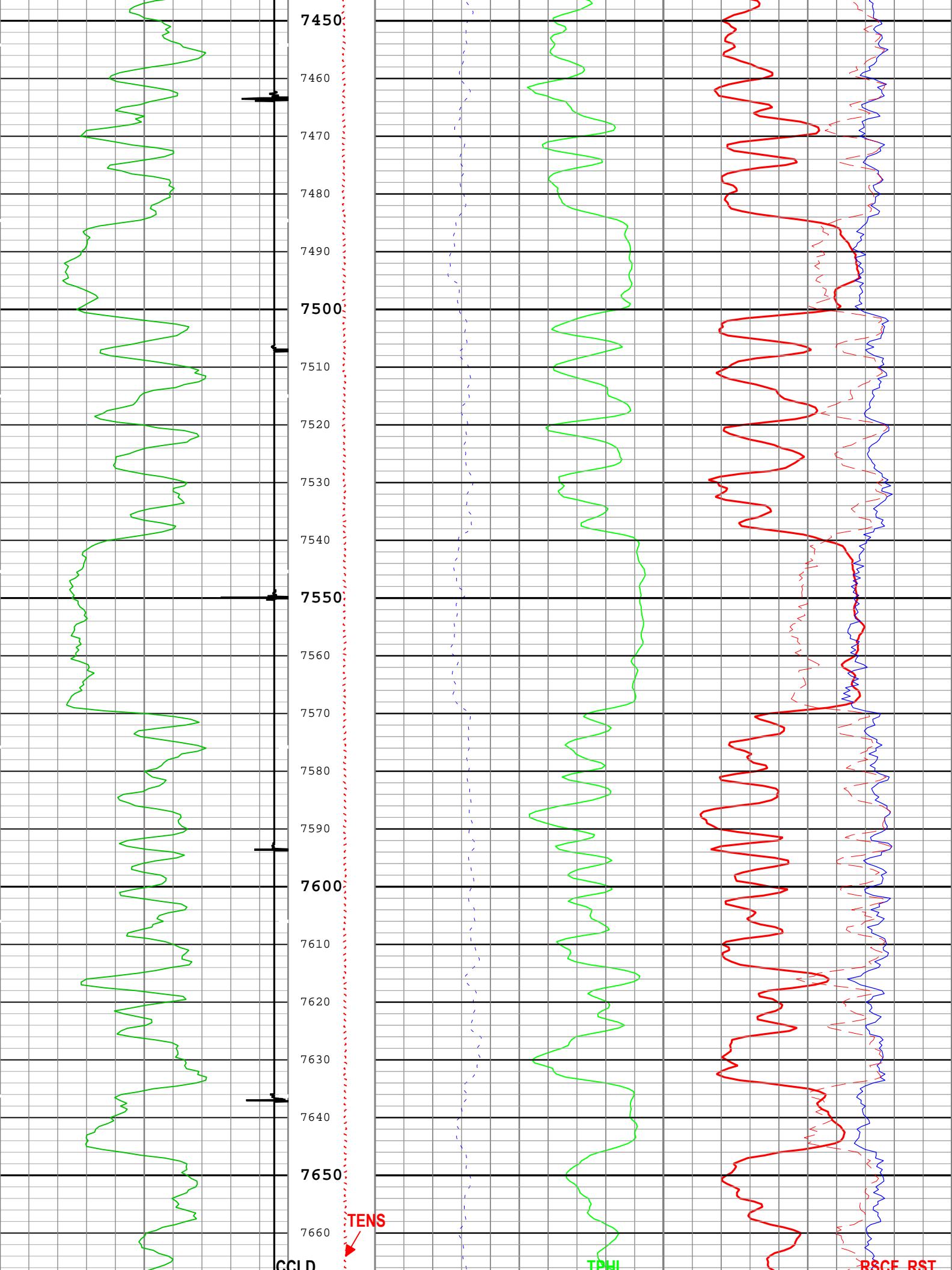


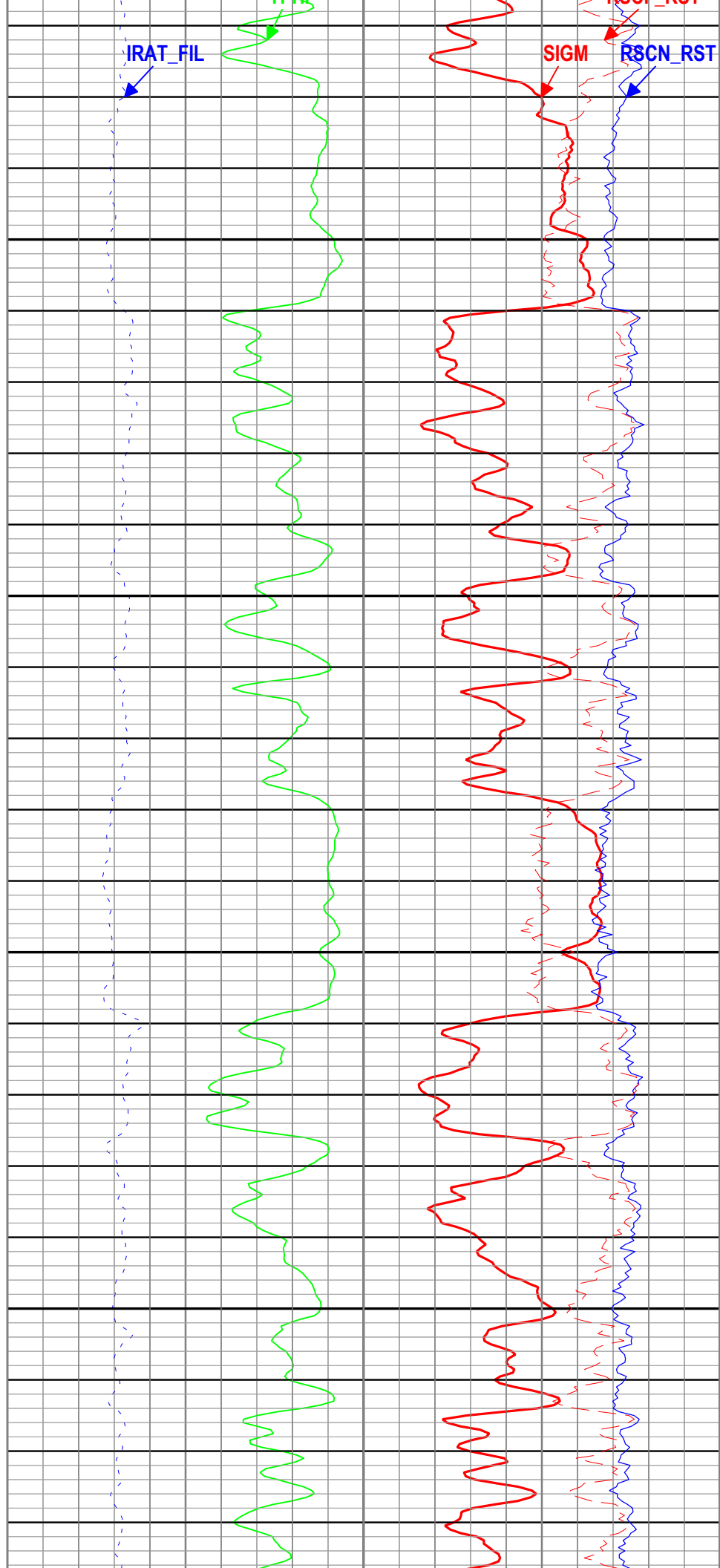
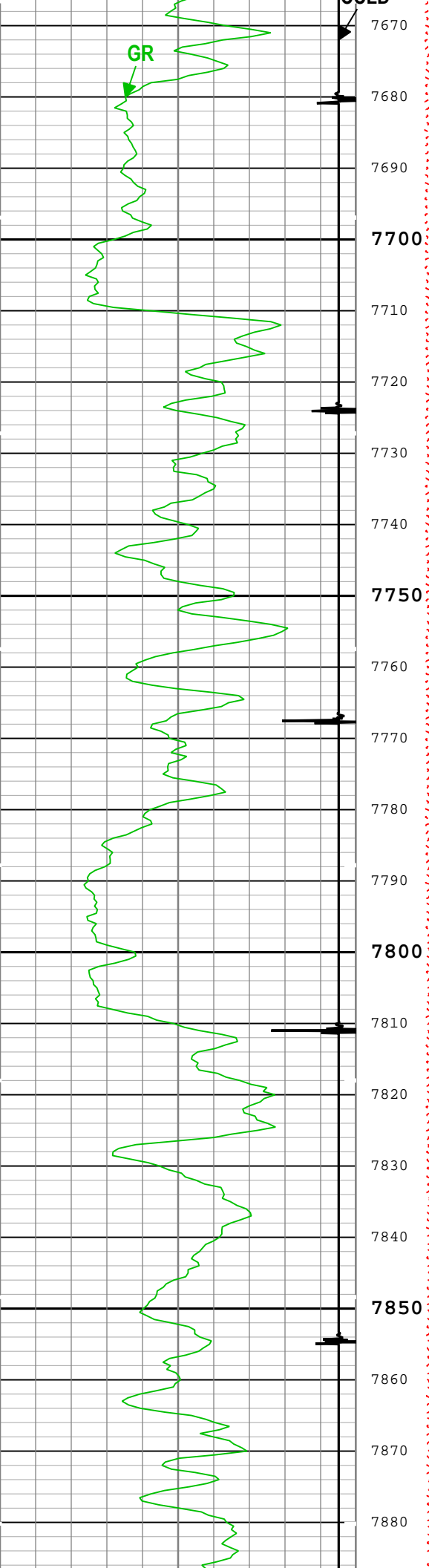


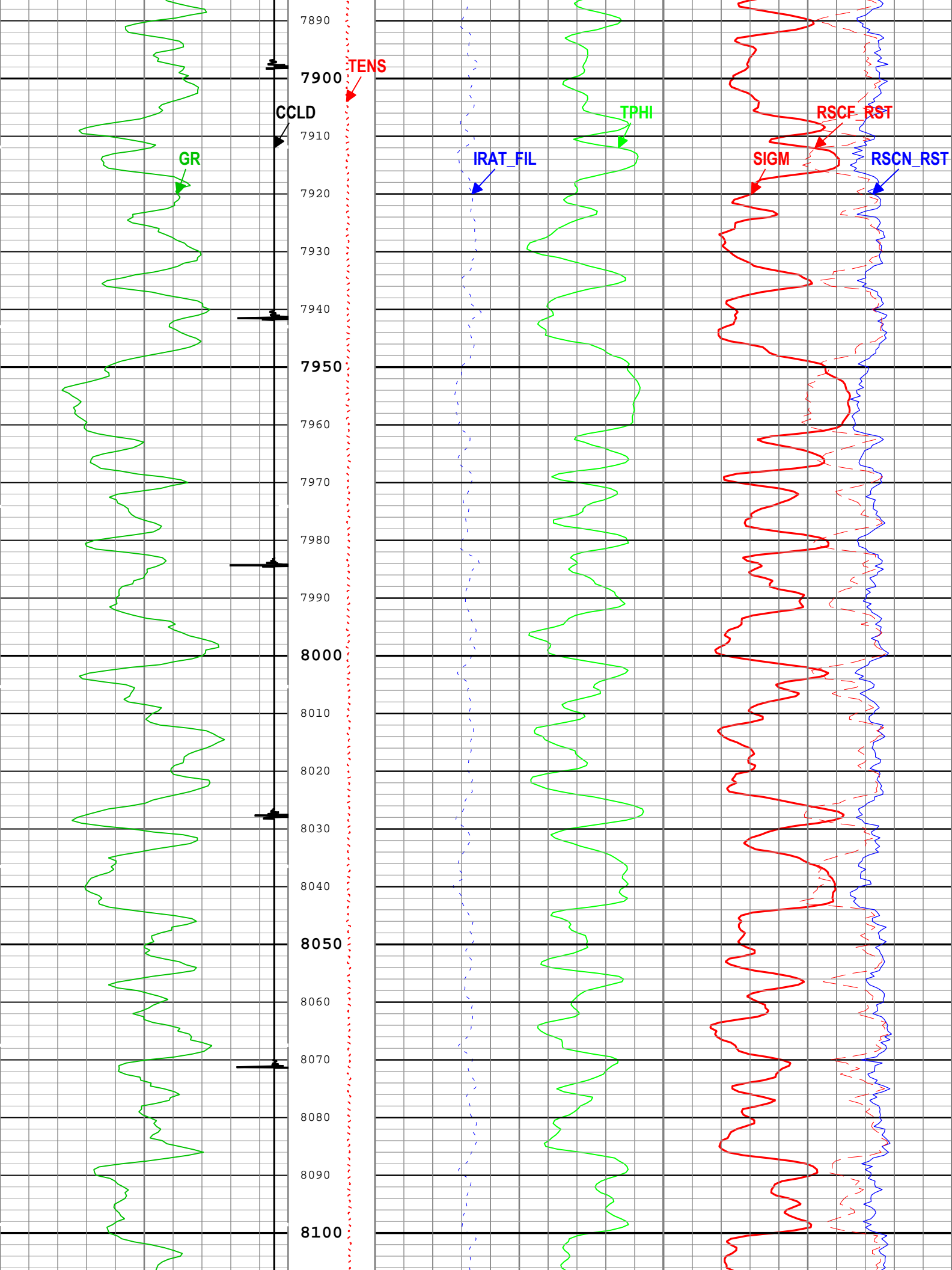


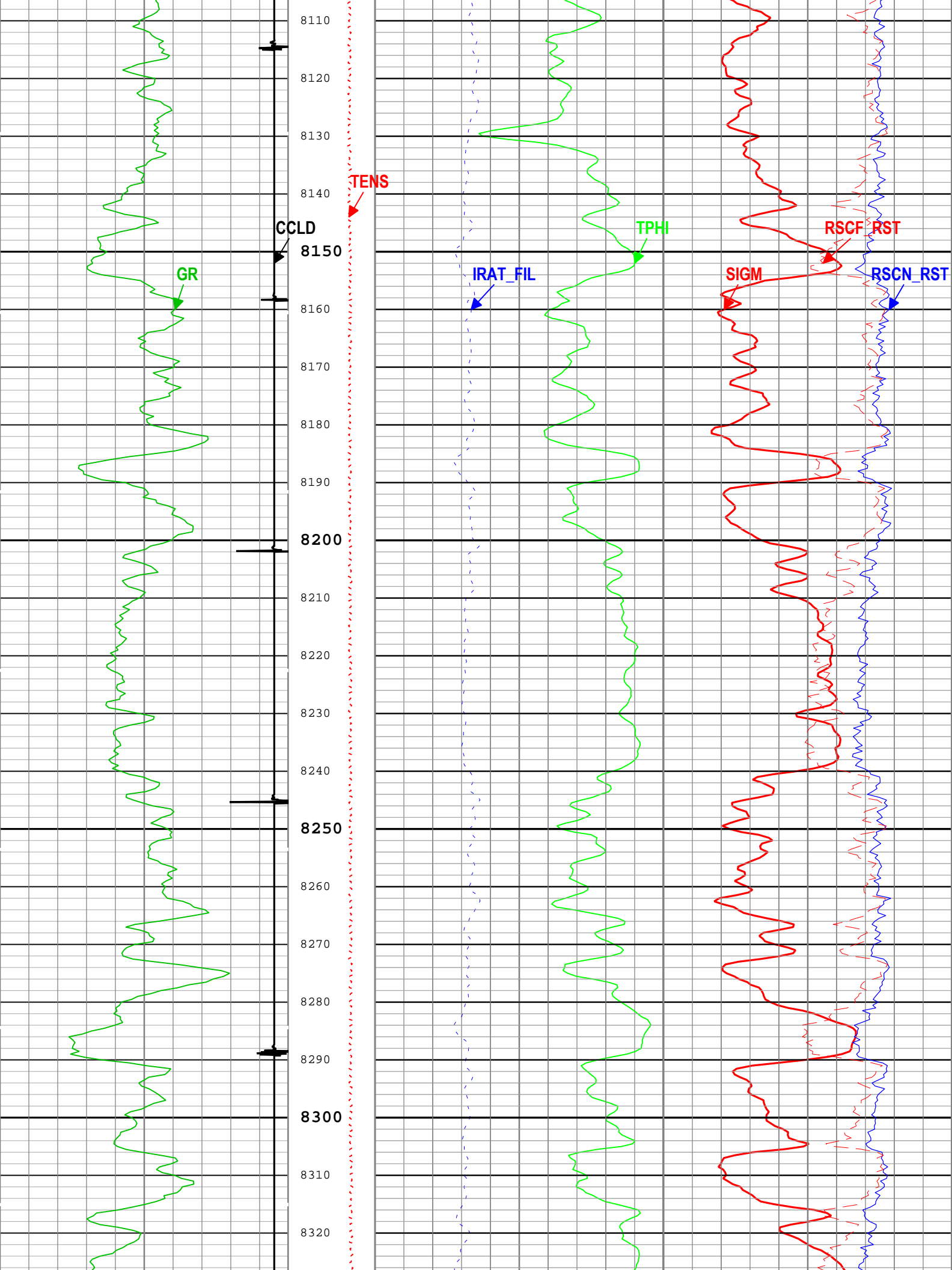


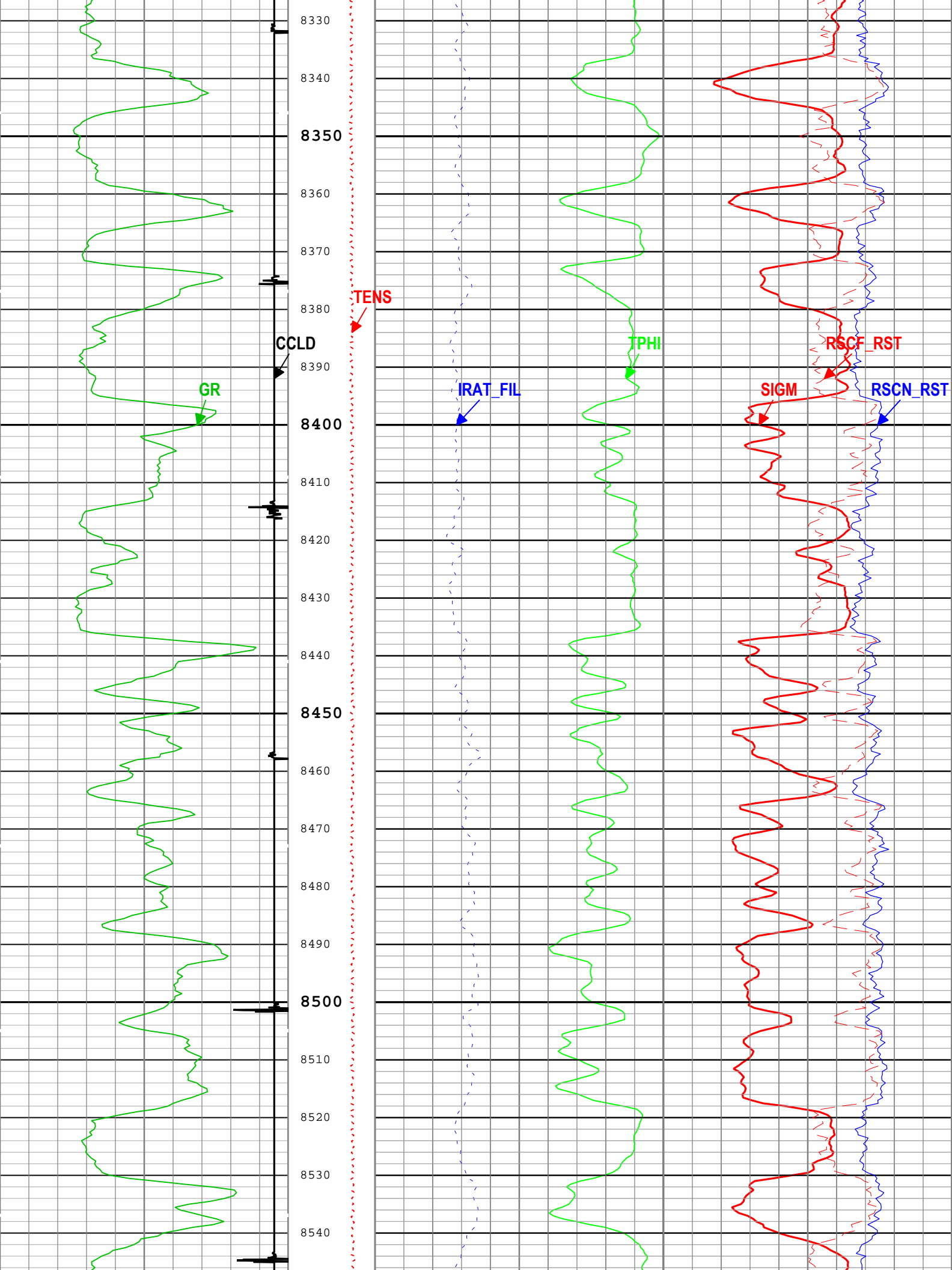


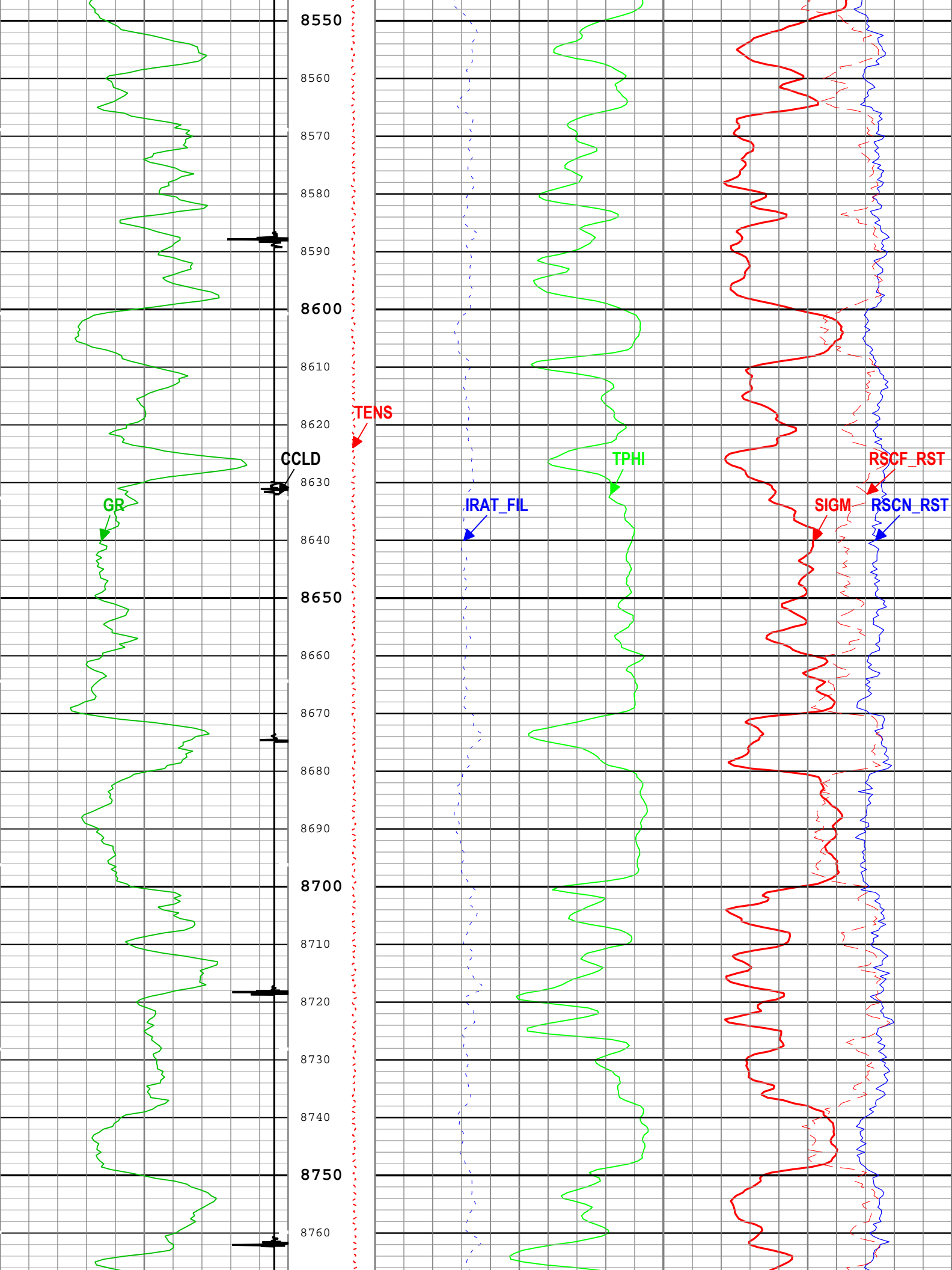


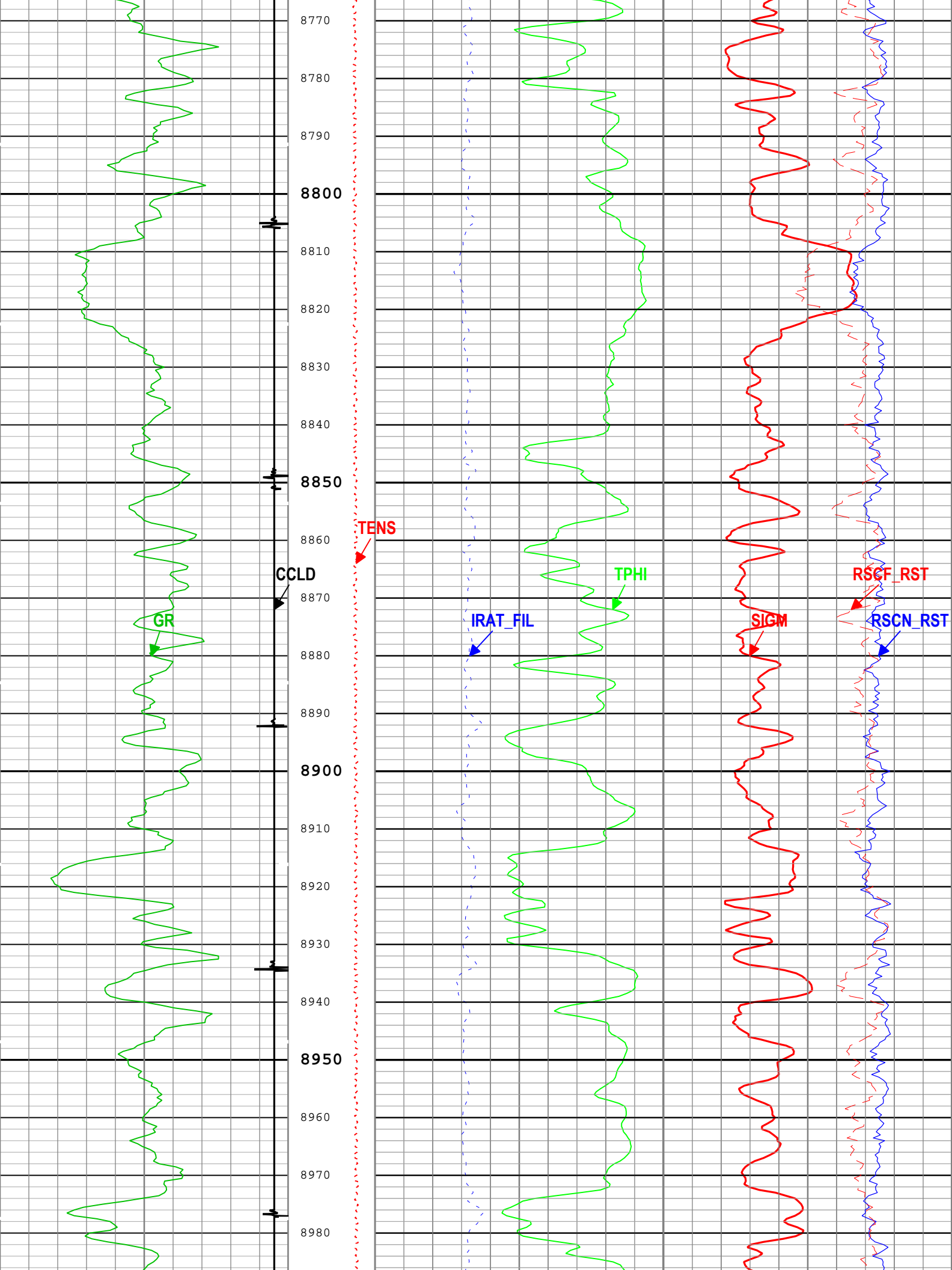


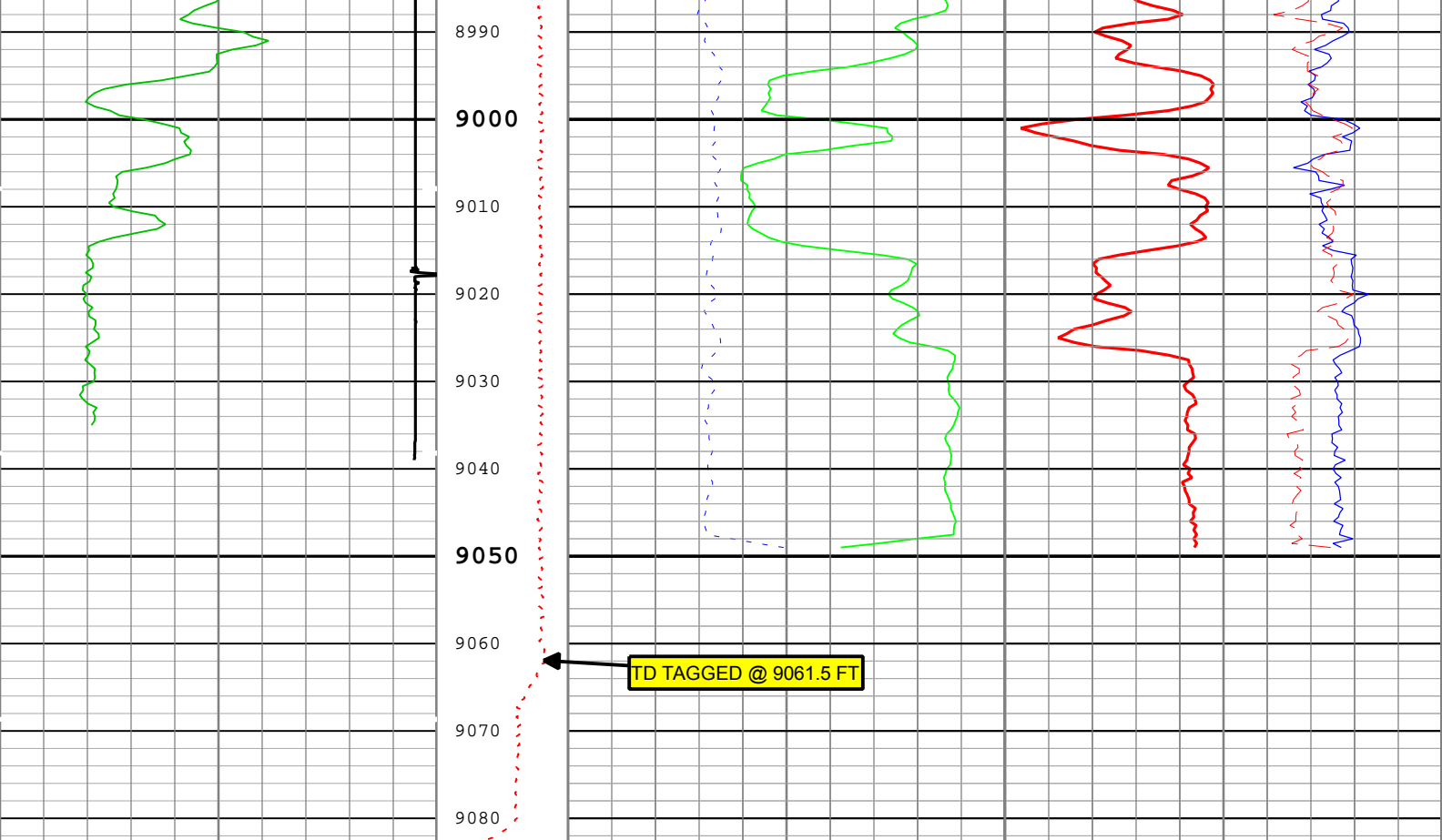












Gamma Ray (GR) PSTP-A		Cable Tension (TENS)	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C	
0	gAPI 150		60	cu 0
CCL Discriminated Amplitude (CCLD) PSTP-A		0 lbf 2000	Inelastic Ratio Filtered (IRAT_FIL) RST-C	Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C
-19	V 1		0.75 0	45 0
			Thermal Decay Porosity (TPHI) RST-C	Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
			0.6 ft3/ft3 0	45 0

— ICV - Integrated Cement Volume every 100.00 (ft3)
— TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)
— ICV - Integrated Cement Volume every 10.00 (ft3)
TIME_1900 - Time Marked every 60.00 (s)

— IHV - Integrated Hole Volume every 100.00 (ft3)
— IHV - Integrated Hole Volume every 10.00 (ft3)

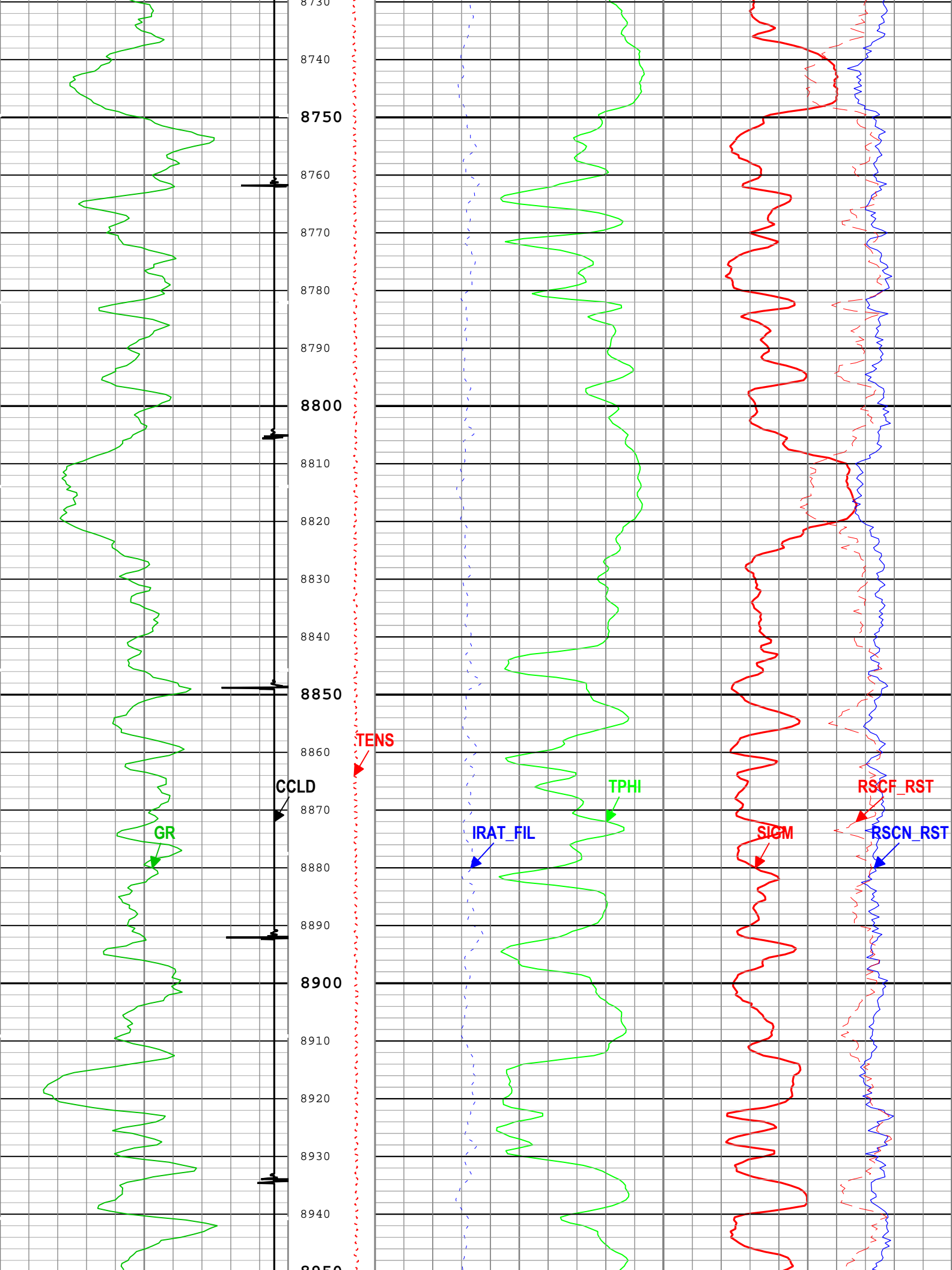
Description: RST SIGMA Answer Format: Log (RST SIGMA Answer) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 23-Jul-2018 22:47:10

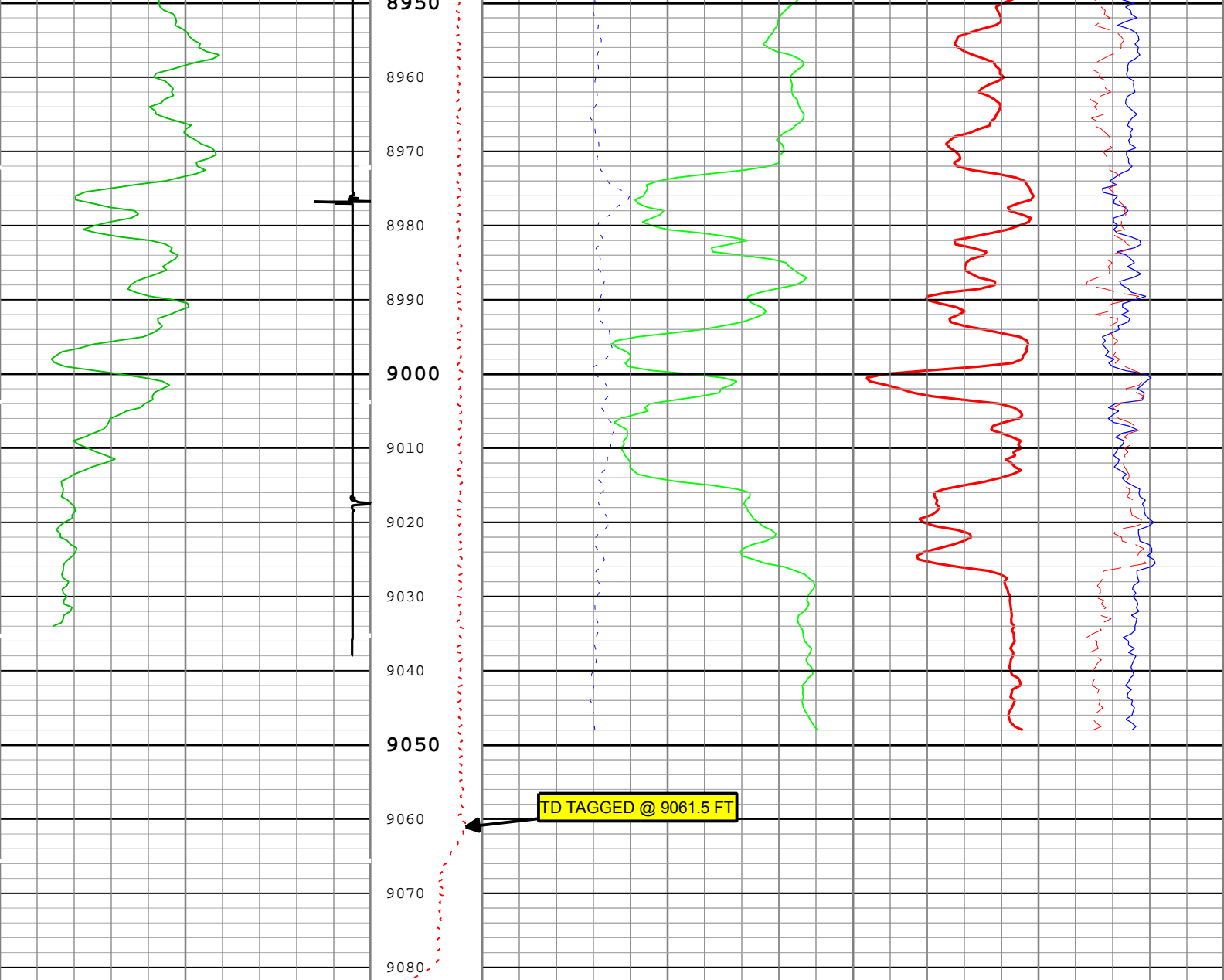
Channel Processing Parameters

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





Gamma Ray (GR) PSTP-A		Cable Tension (TENS)	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C	
0	gAPI 150		60	cu 0
CCL Discriminated Amplitude (CCLD) PSTP-A		0 lbf 2000	Inelastic Ratio Filtered (IRAT_FIL) RST-C	Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C
-19	V 1		0.75	45 0
			Thermal Decay Porosity (TPHI) RST-C	Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
			0.6 ft3/ft3 0	45 0

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

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: 23-Jul-2018 22:47:13

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-A	24 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

Company:	Caerus Operating LLC	Schlumberger
Well:	Puckett 15A-26	
Field:	Grand Valley	
County:	Garfield	
State:	Colorado	
Cement Bond Log		
RST Sigma Log		
Gamma Ray - Collar Locator Log		