

Company: Caerus Operating LLC

Well: Puckett 15B-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 15B-26
Company: Caerus Operating LLC

Mesa F26	Location:		Elev.: K.B. 8352.00 ft G.L. 8322.00 ft D.F. 8352.00 ft
	Permanent Datum:	Ground Level	
	Log Measured From:	Kelly Bushing	
	Drilling Measured From:	Kelly Bushing	
API Serial No. 0504523409	Section: 26	Township: 6S	Range: 97W

Logging Date 23-Jul-2018

Run Number One

Depth Driller 9349.60 ft

Schlumberger Depth 9258.00 ft

Bottom Log Interval 9258.00 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 2519.60 ft

To 9258.00 ft

Casing/Tubing Size 4.5 in

Weight 11.6 lbm/ft

Grade P110

From 0.00 ft

To 9258.00 ft

Max Recorded Temperatures 228 degF

Logger on Bottom 23-Jul-2018 16:00:00

Unit Number 3108

Recorded By Beatriz Guaita

Witnessed By Ryan Tompkins

Disclaimer

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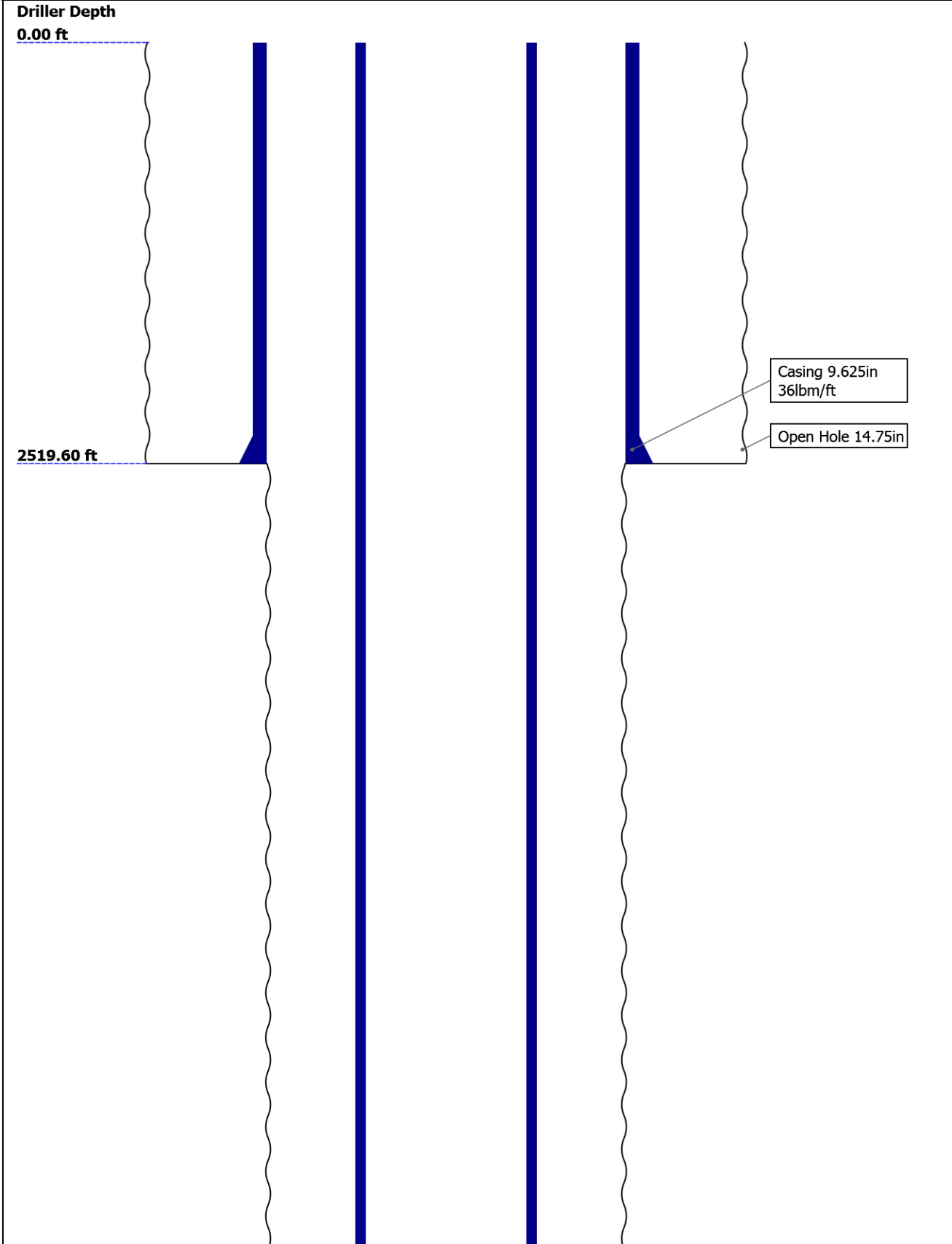
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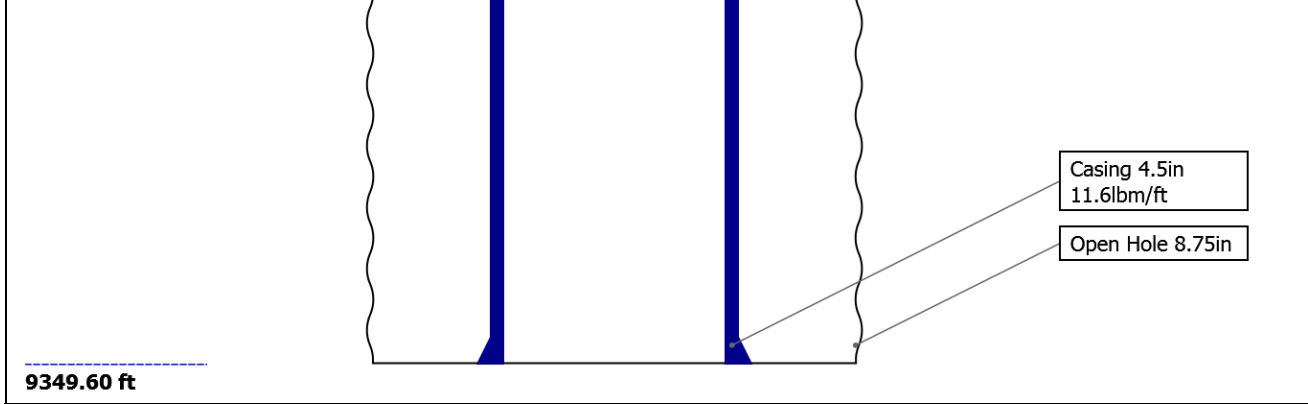
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Well Sketch



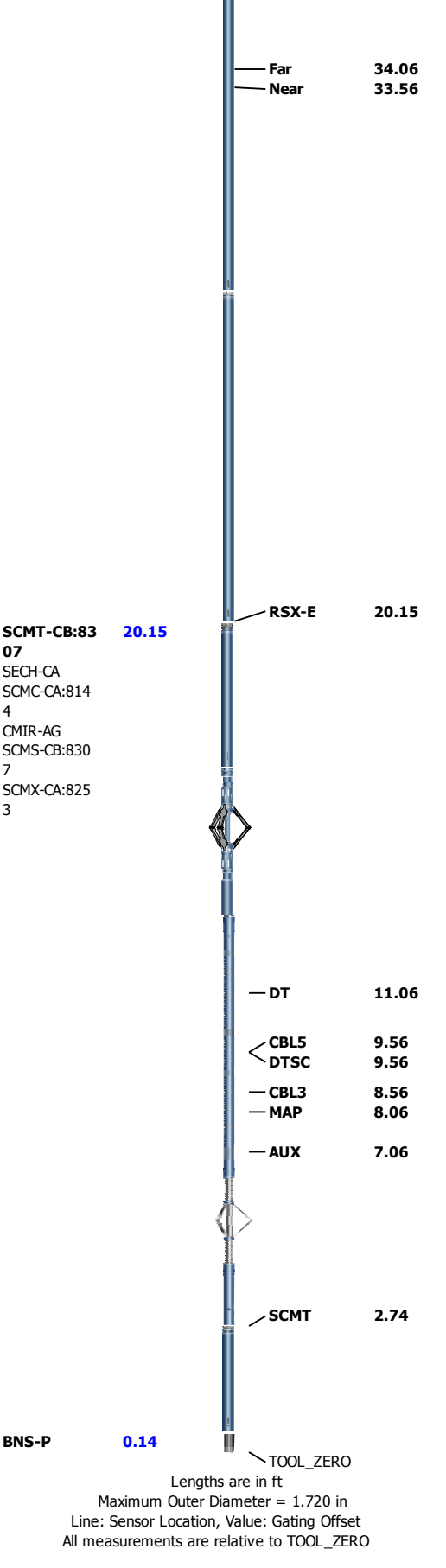


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	14.75	8.75				
Top Driller (ft)	0	2519.6				
Top Logger (ft)	0	2519.6				
Bottom Driller (ft)	2519.6	9349.6				
Bottom Logger (ft)	2519.6	9258				
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)	2519.6	9349.6				
Bottom Logger (ft)	2519.6	9258				

Remarks and Equipment Summary

One: Toolstring				One: Remarks		
Equip name	Length	MP name	Offset	Tool ran as per Tool Sketch.		
PEH-E	53.4			3 Gemcos used for Tool Centralization.		
				Max Temperature Recorded 228DegF		
AH-38	51.72			Max Pressure Recorded 3722psi.		
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		

400	us	200
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2300

2310

2320

2330

2340

2350

2360

2370

CLD 2380

2390

TENS 2400

2410

2420

2430

2440

2450

2460

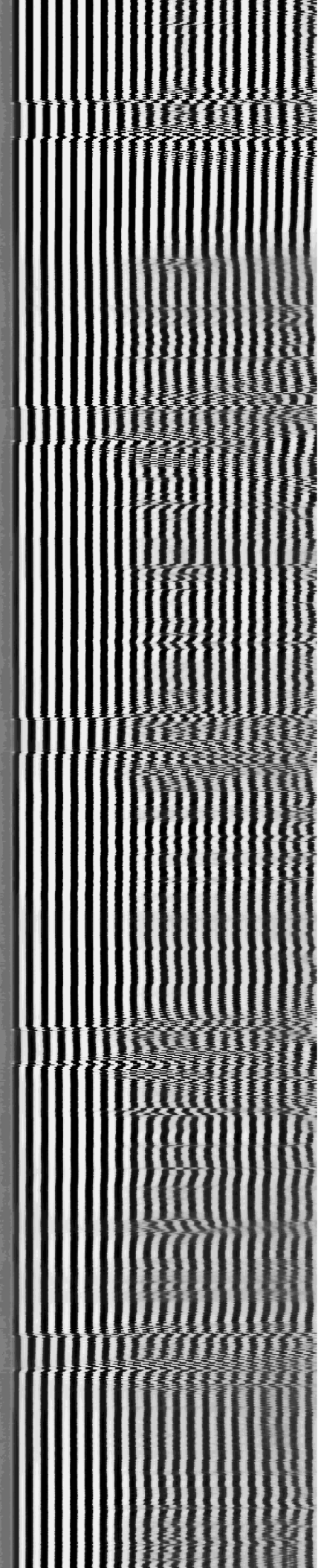
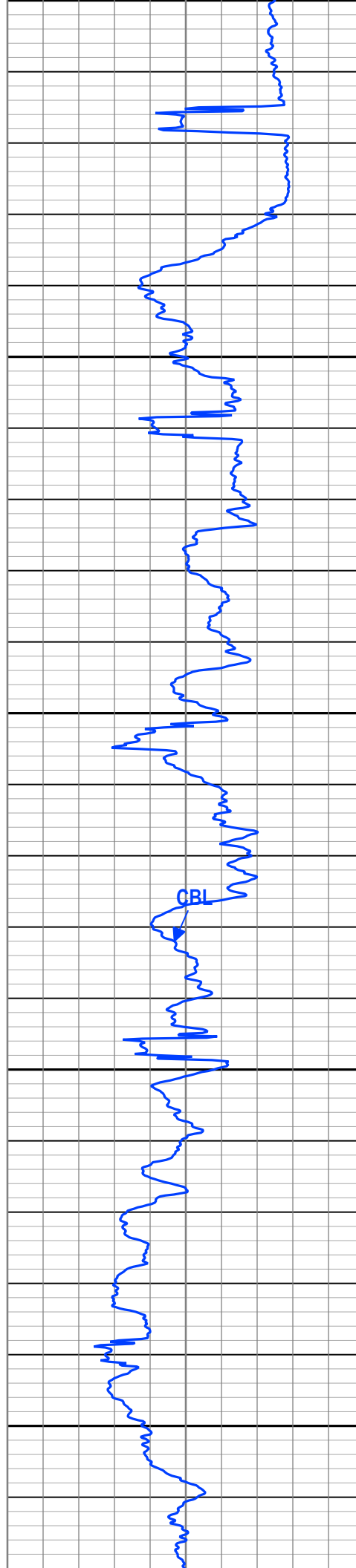
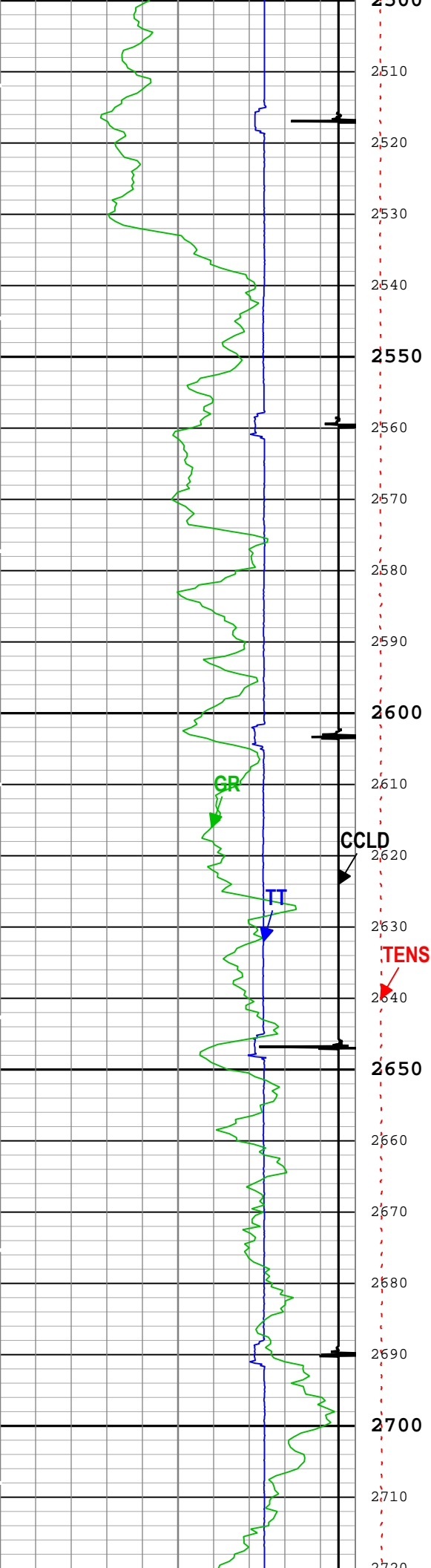
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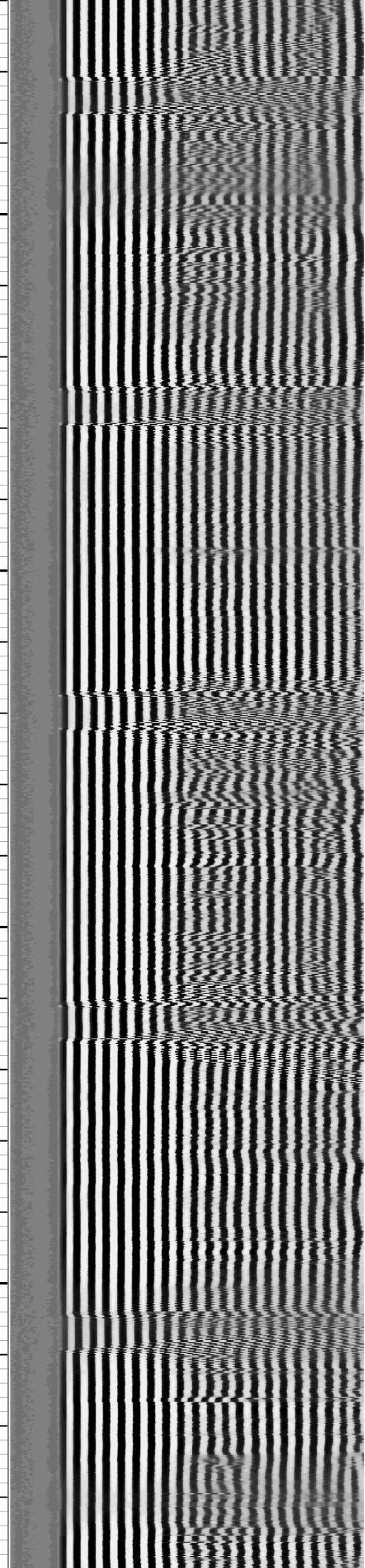
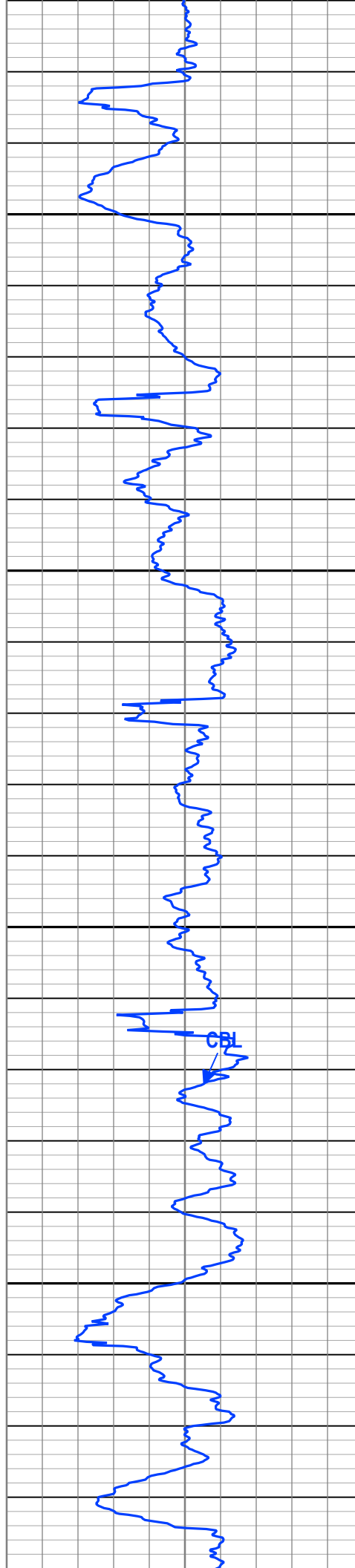
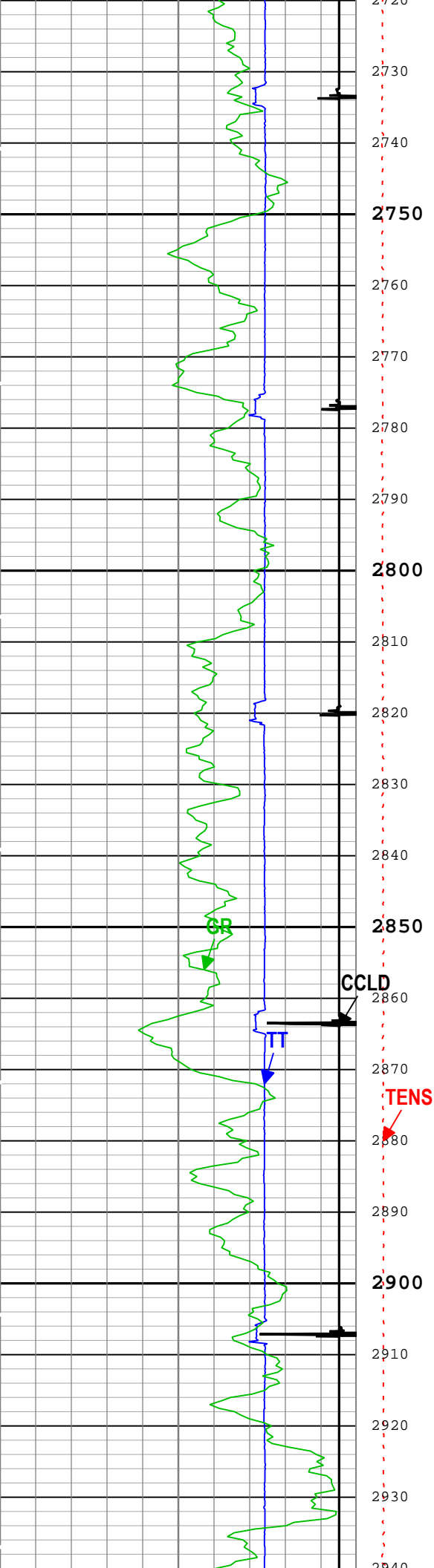
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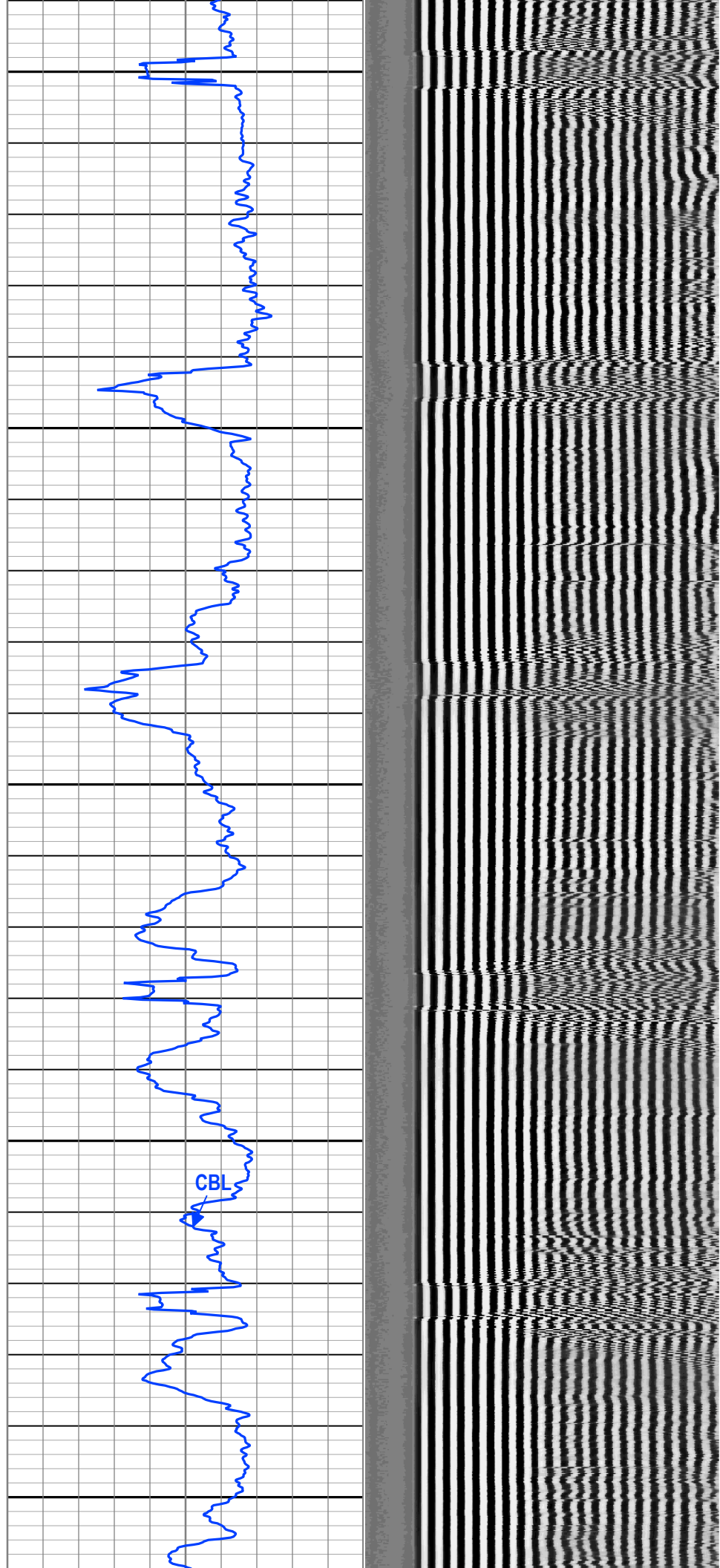
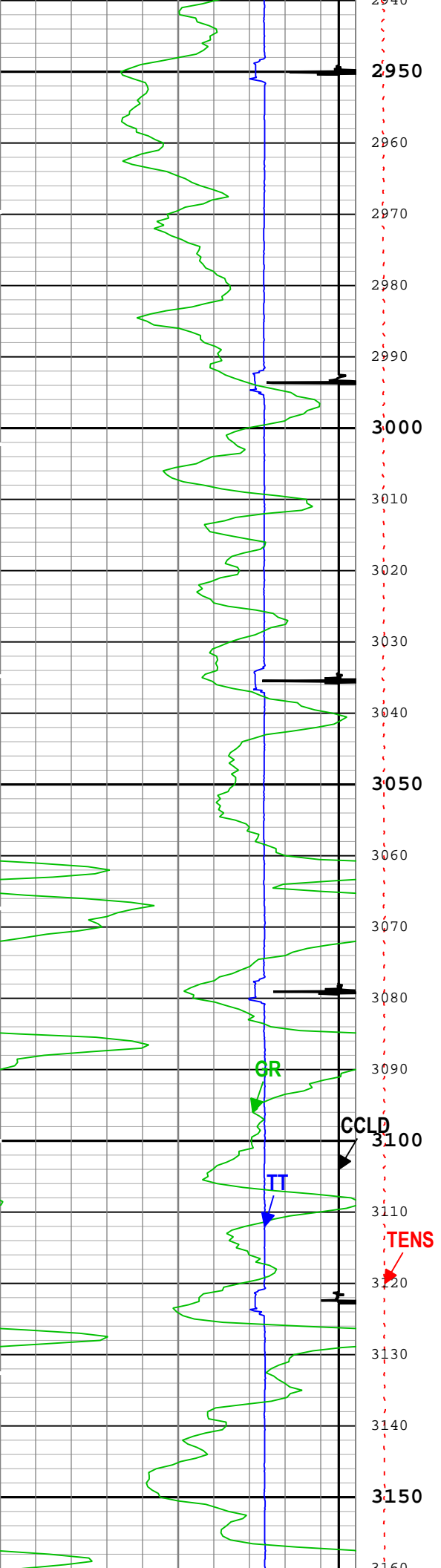
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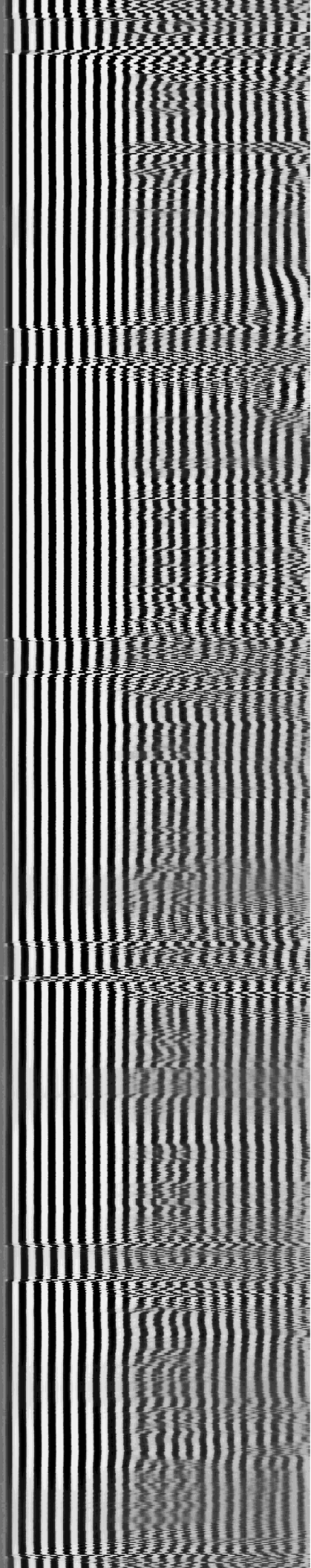
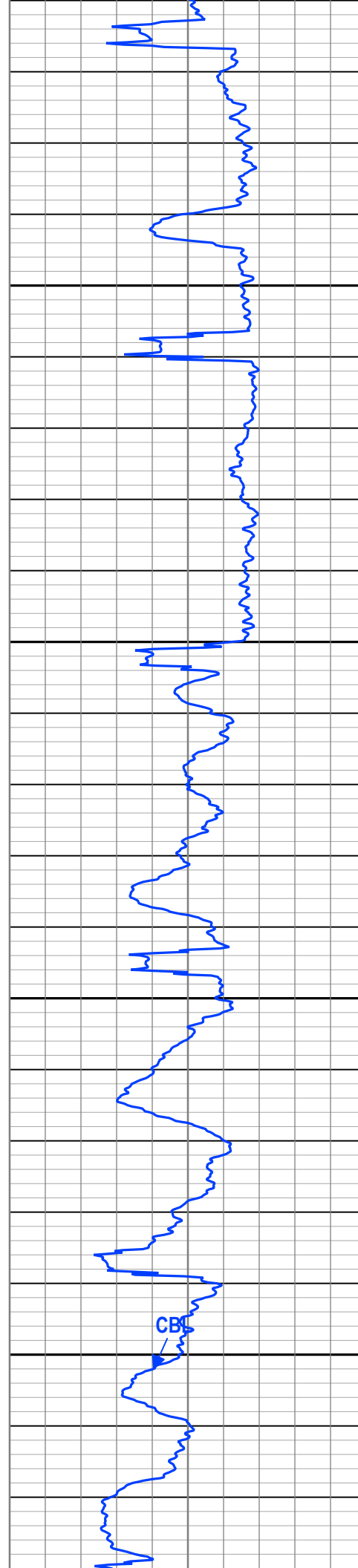
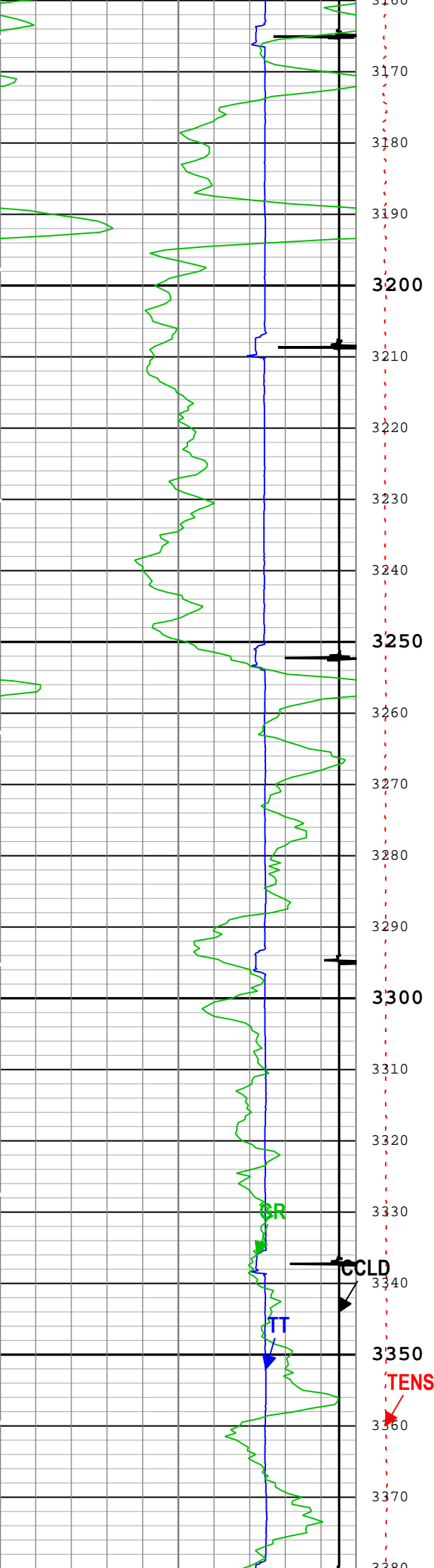
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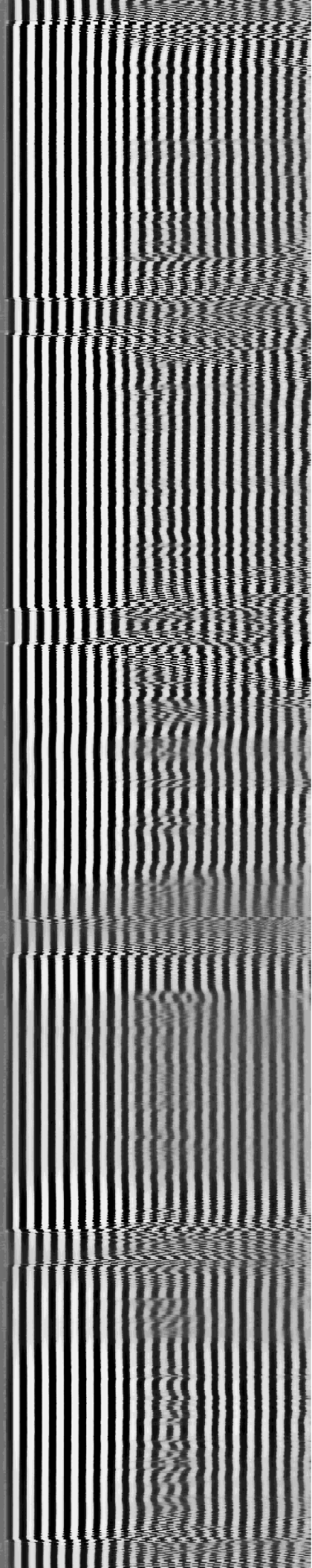
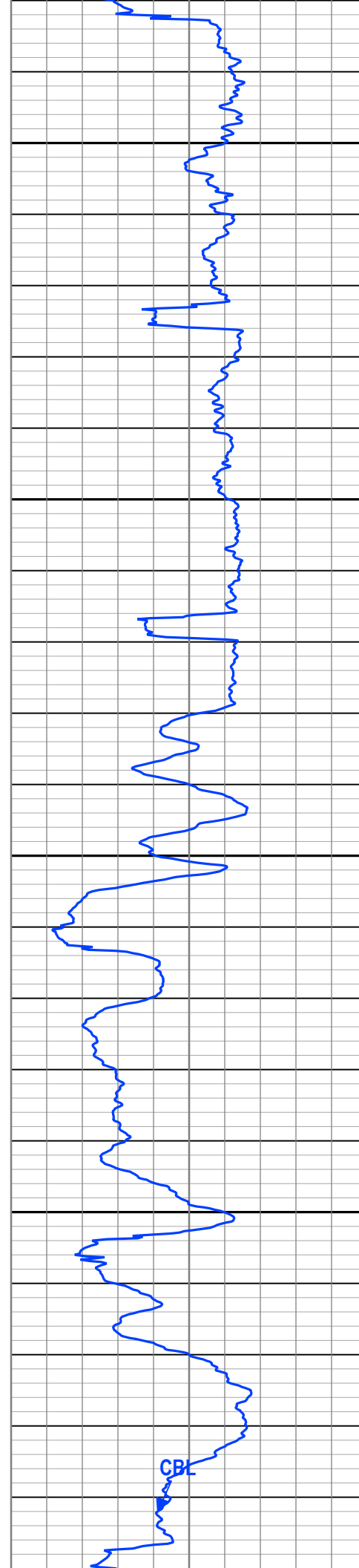
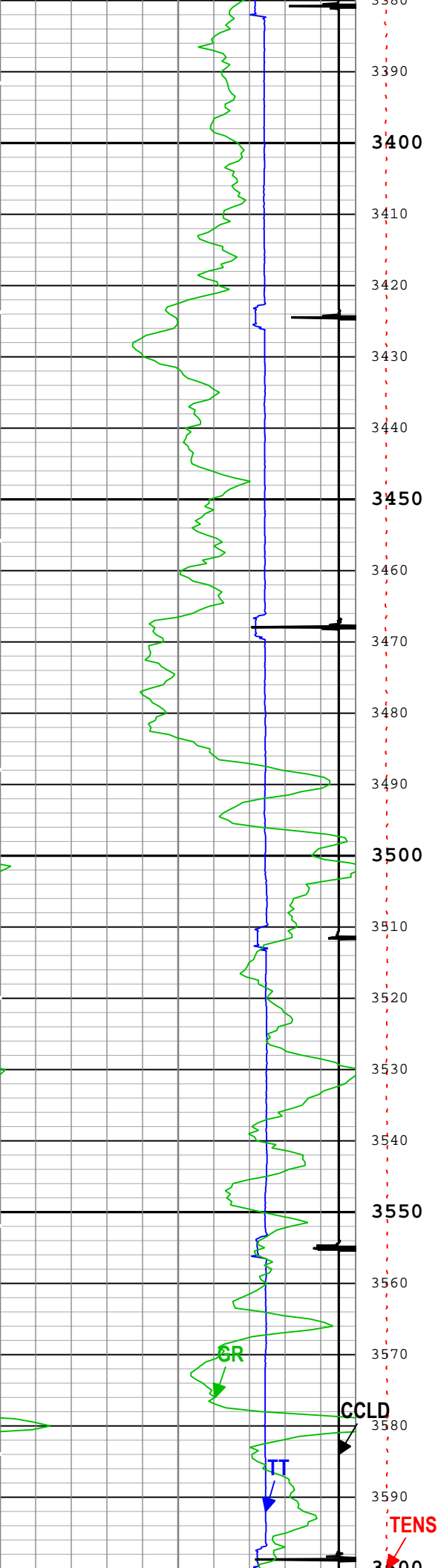
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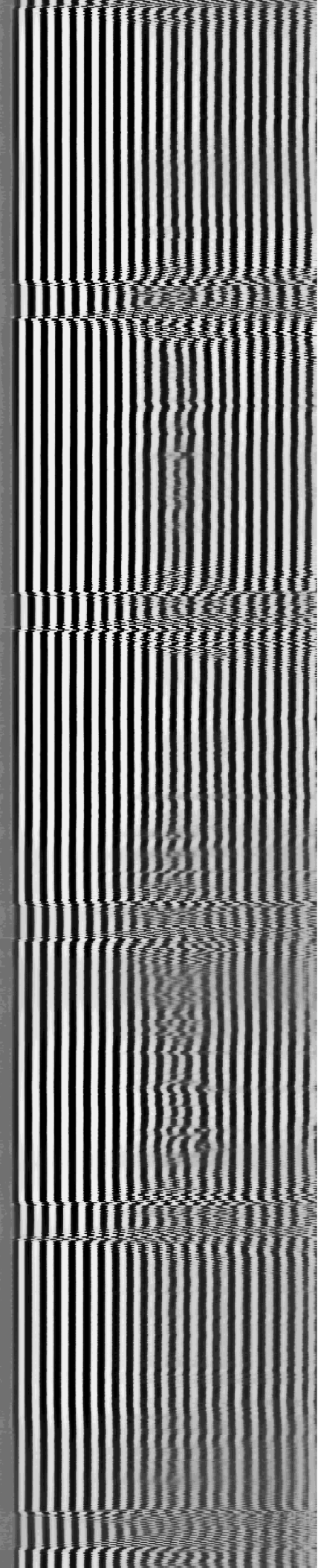
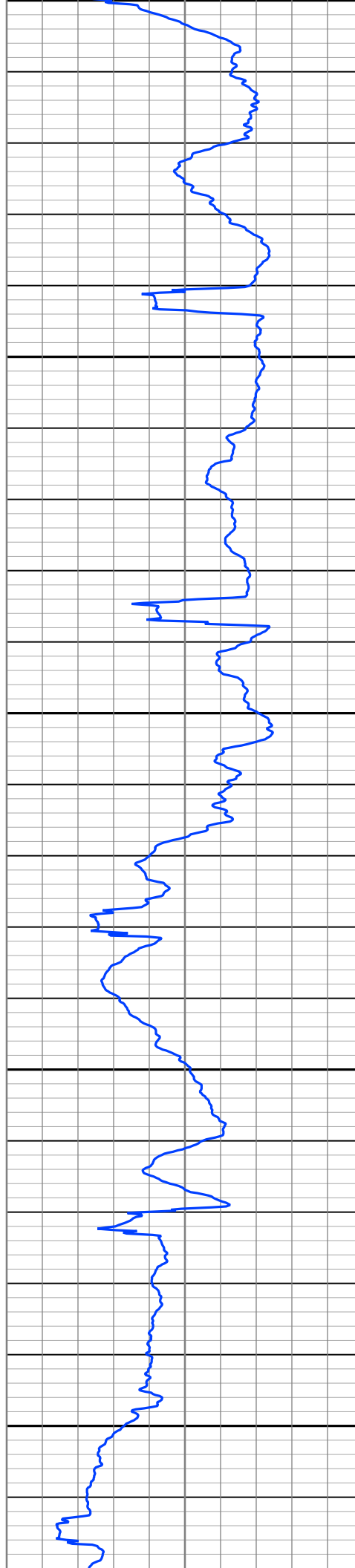
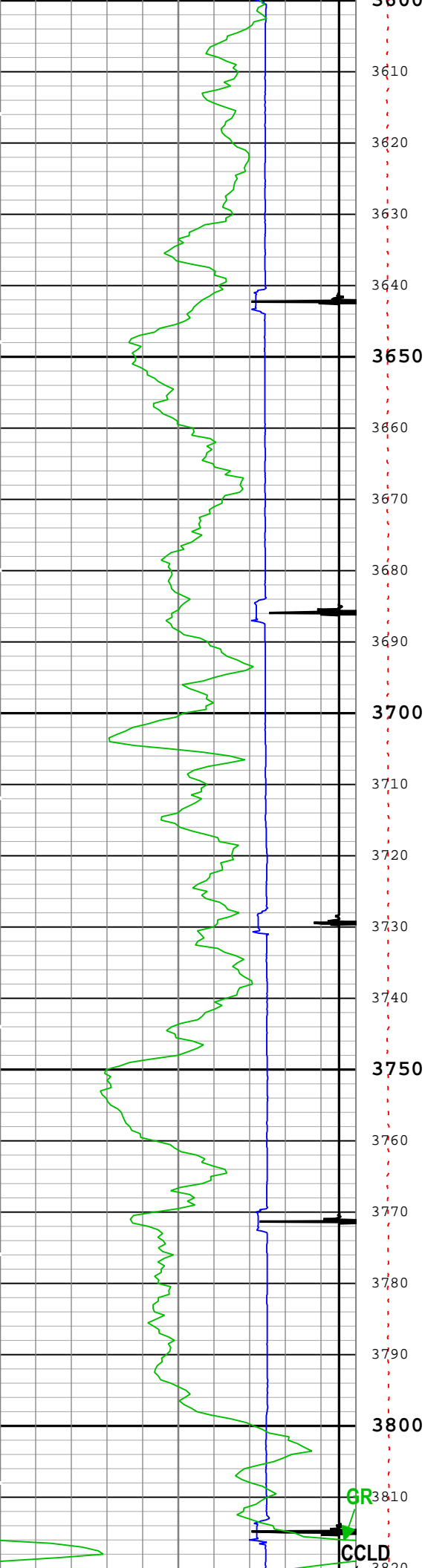


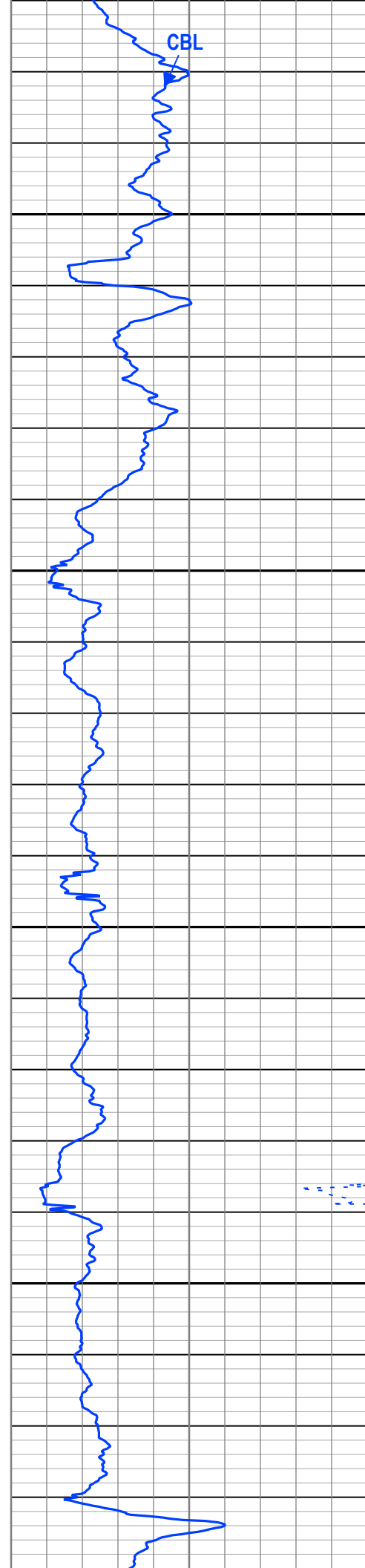
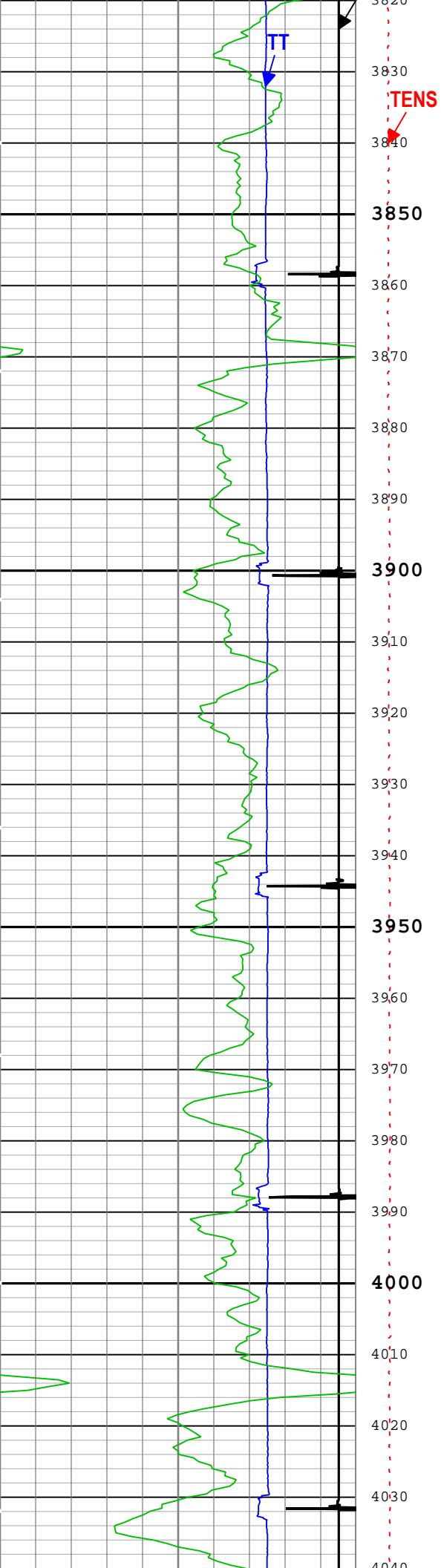


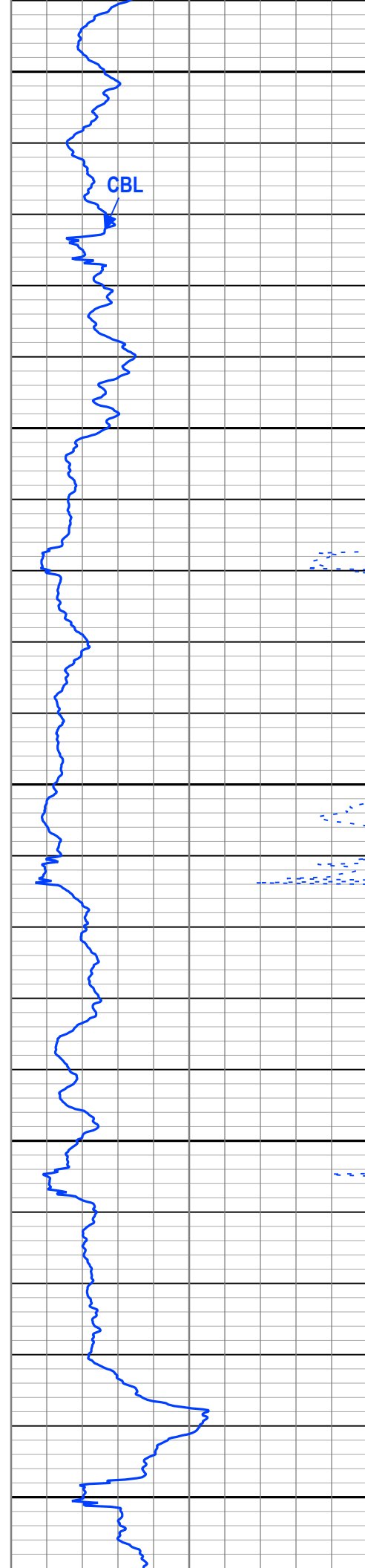
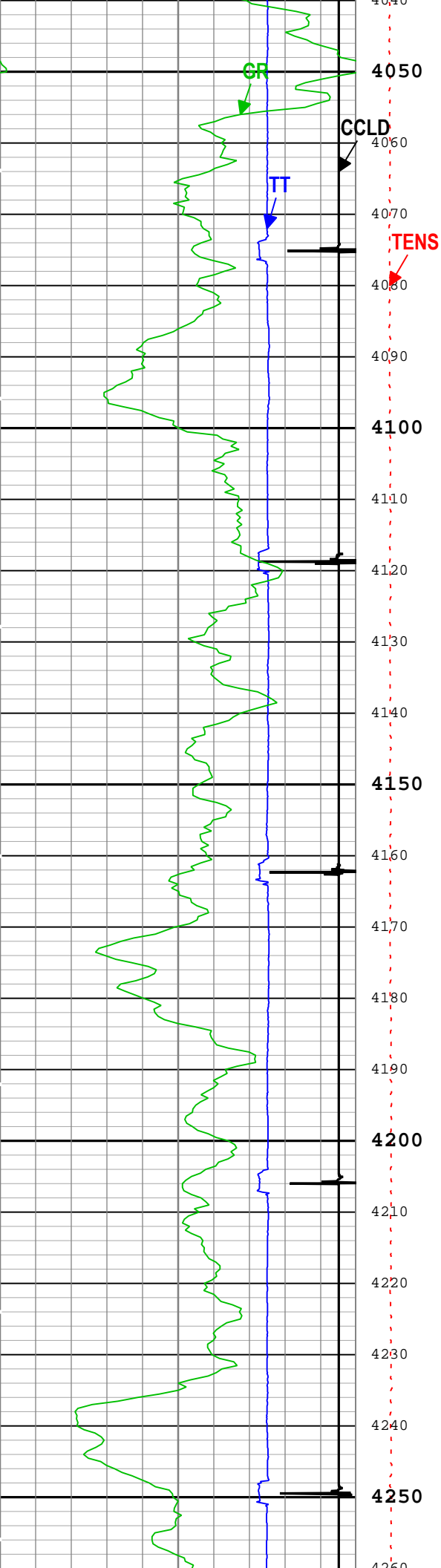


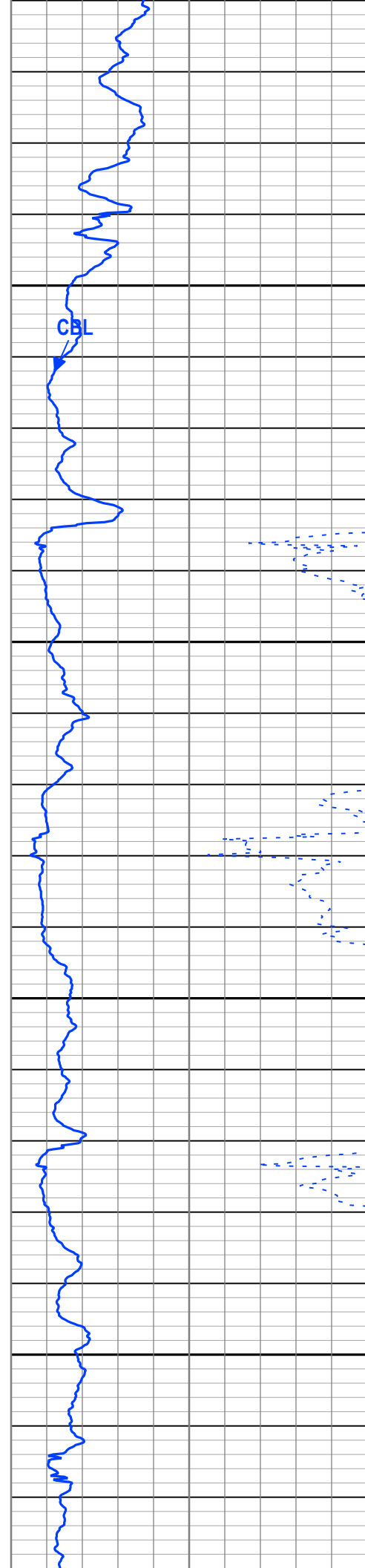
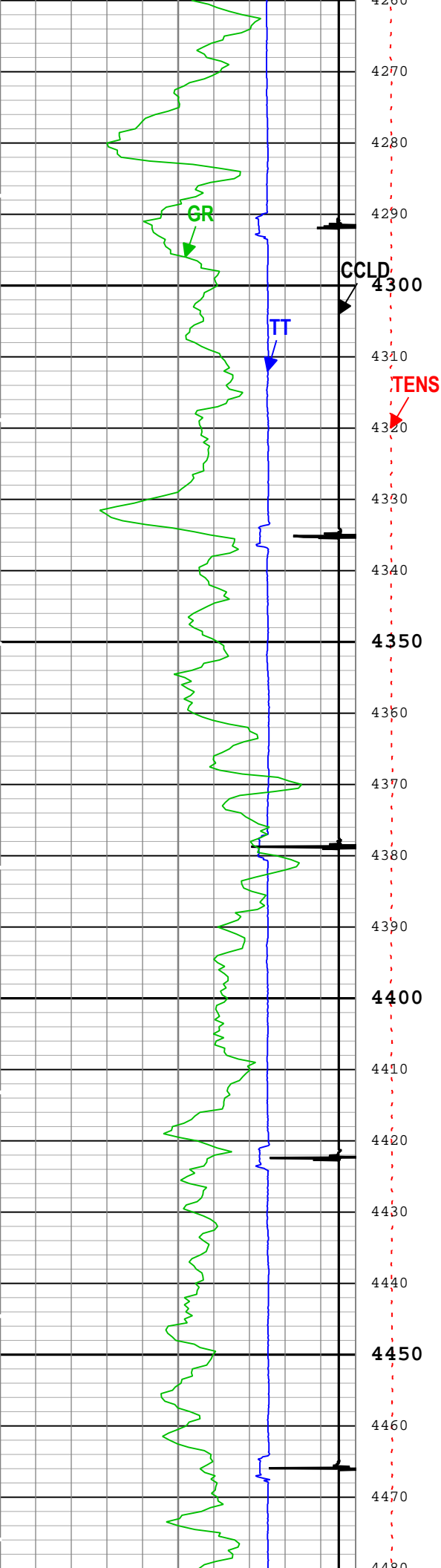


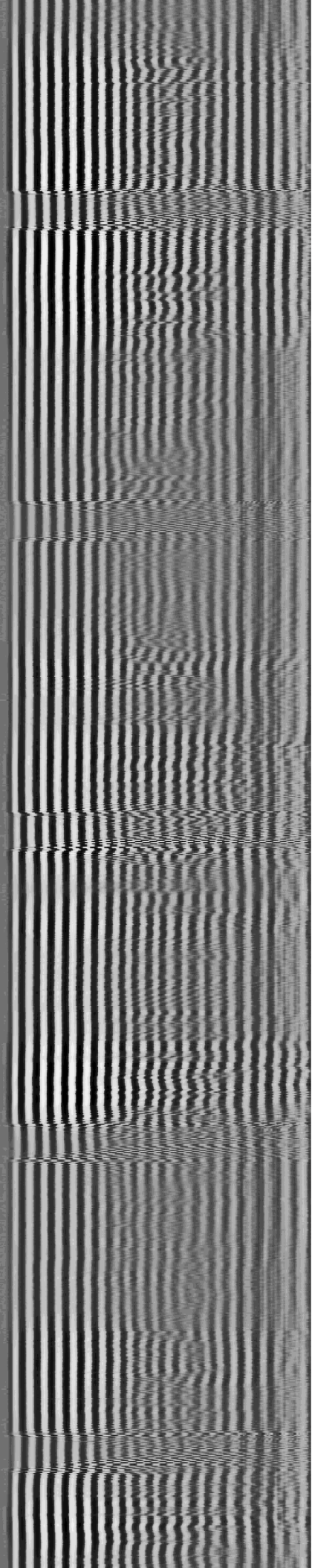
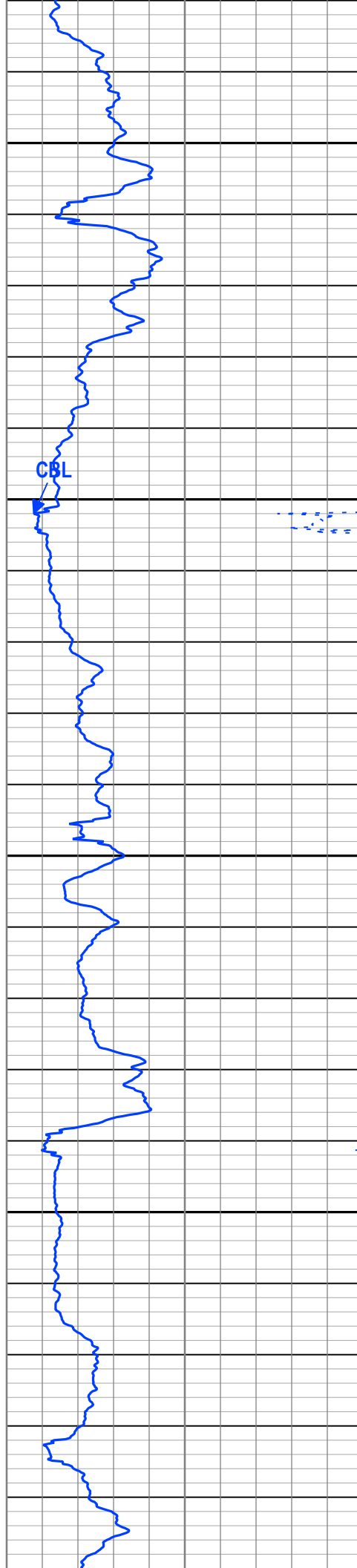
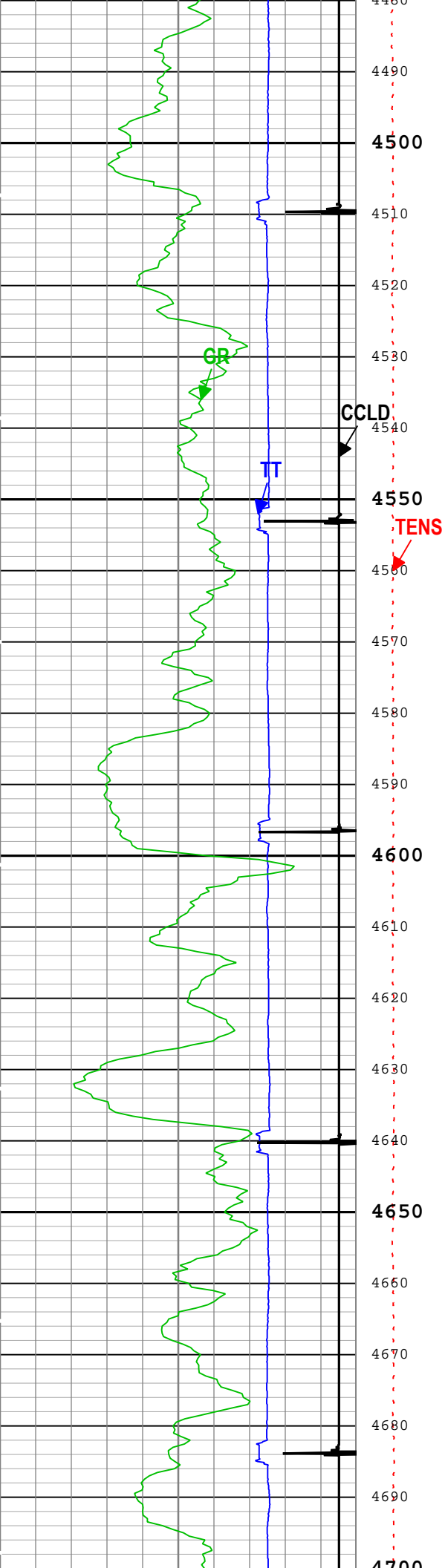


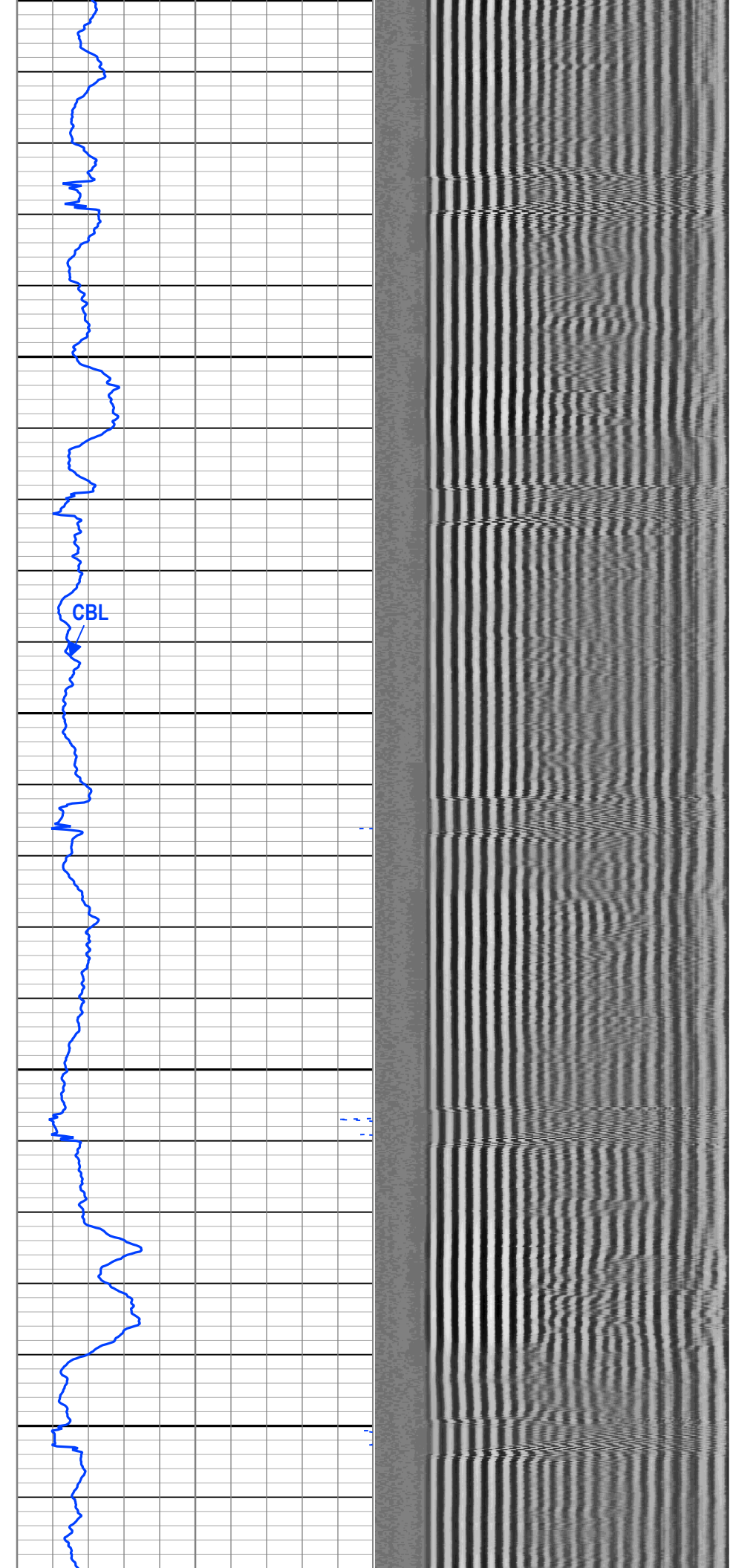
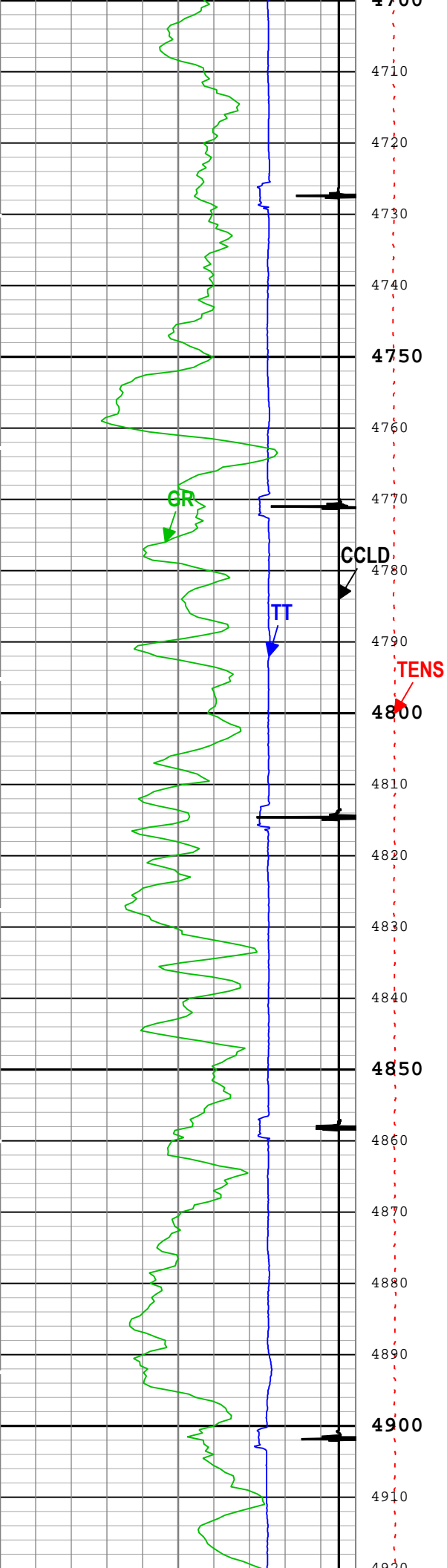


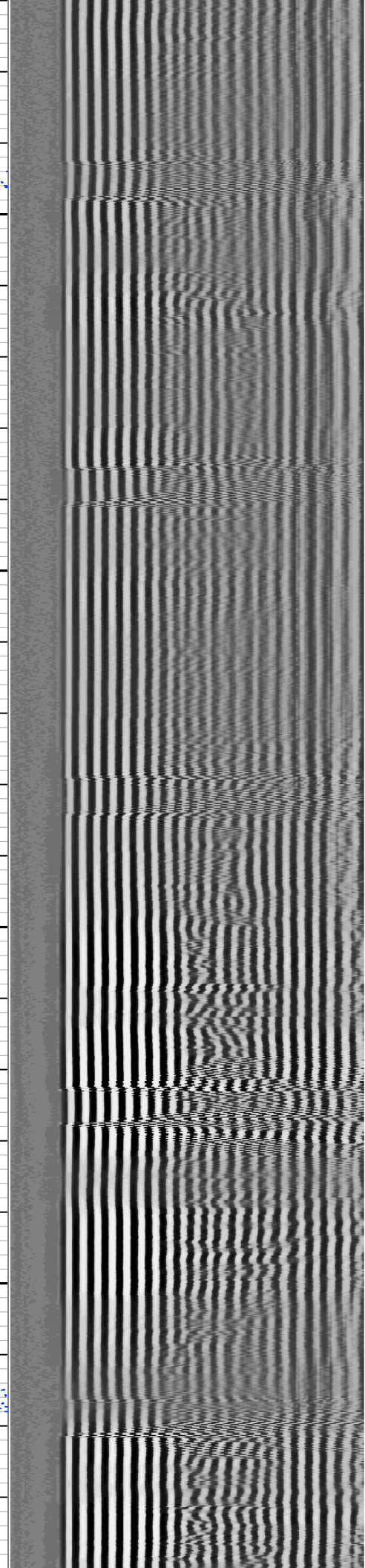
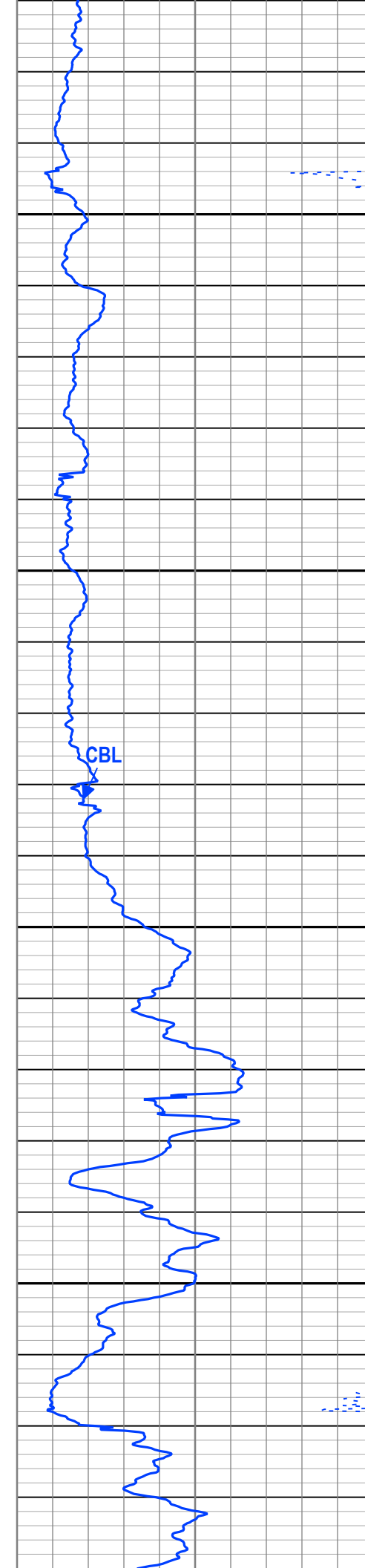
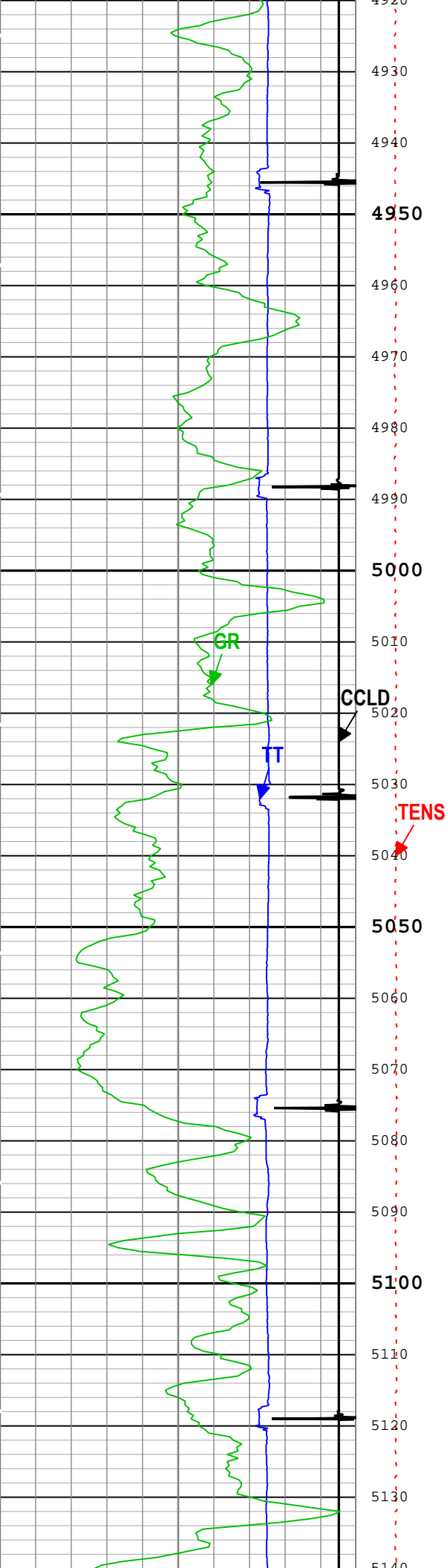


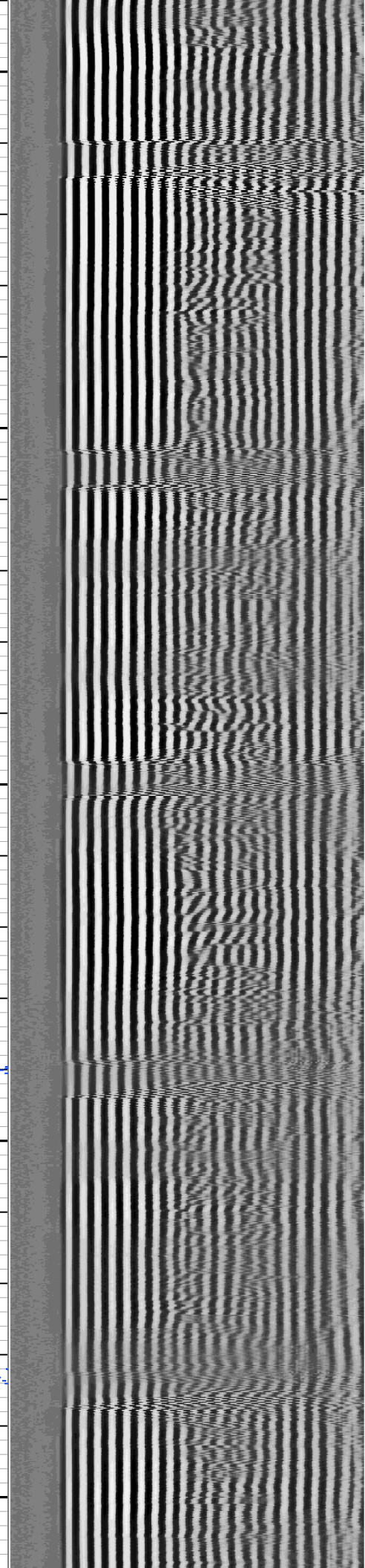
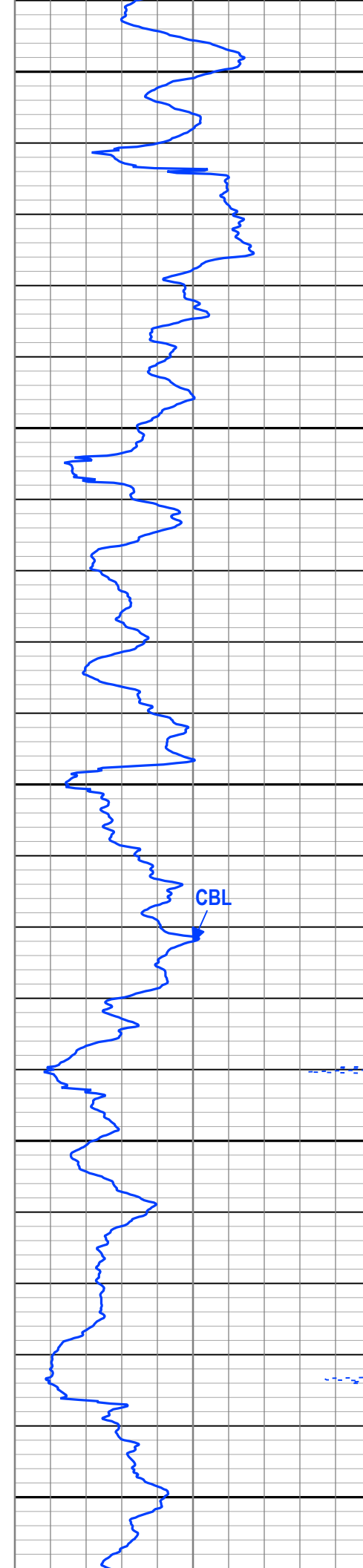
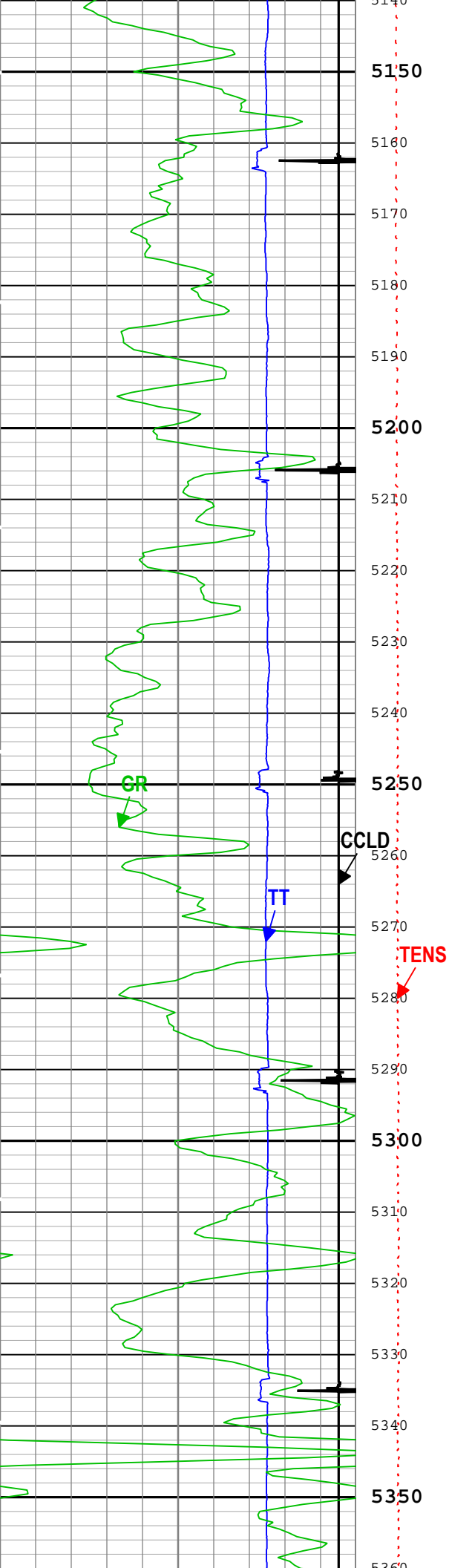


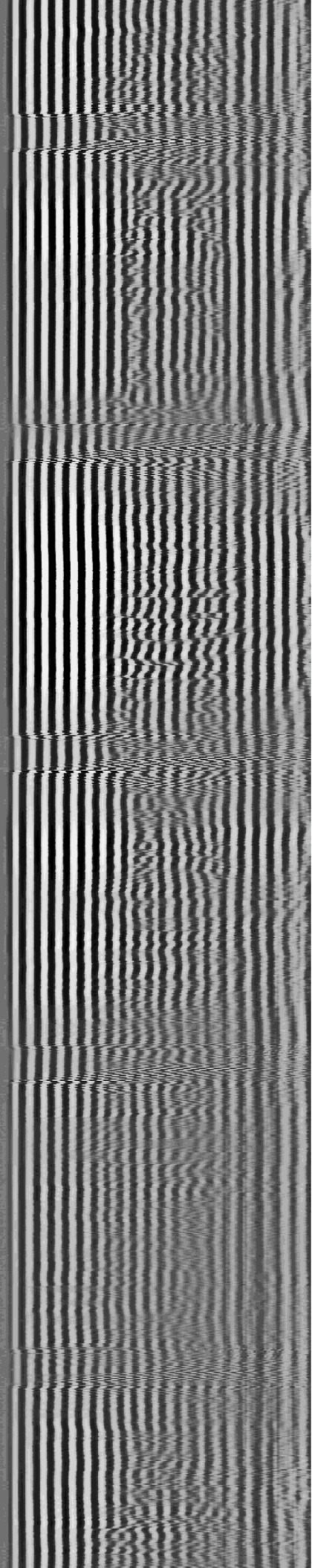
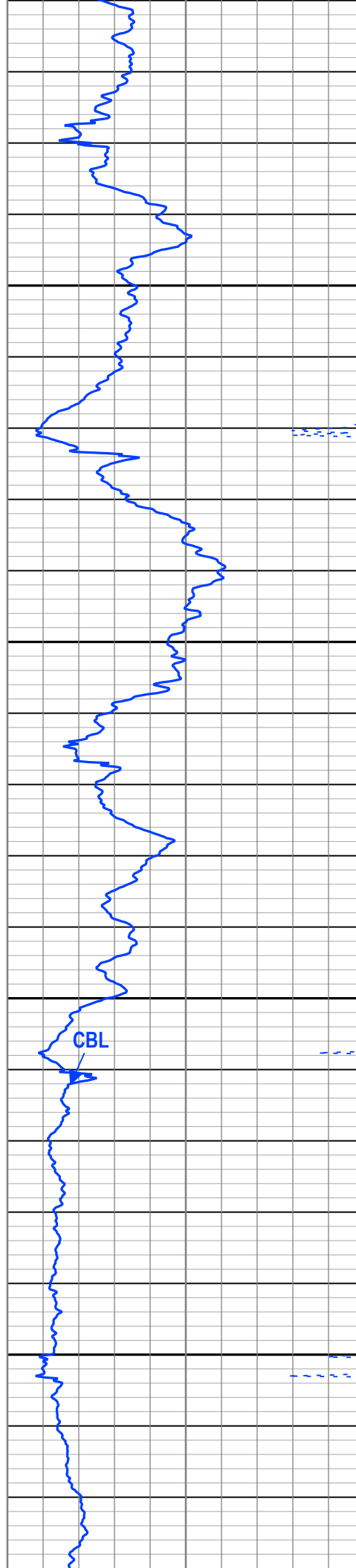
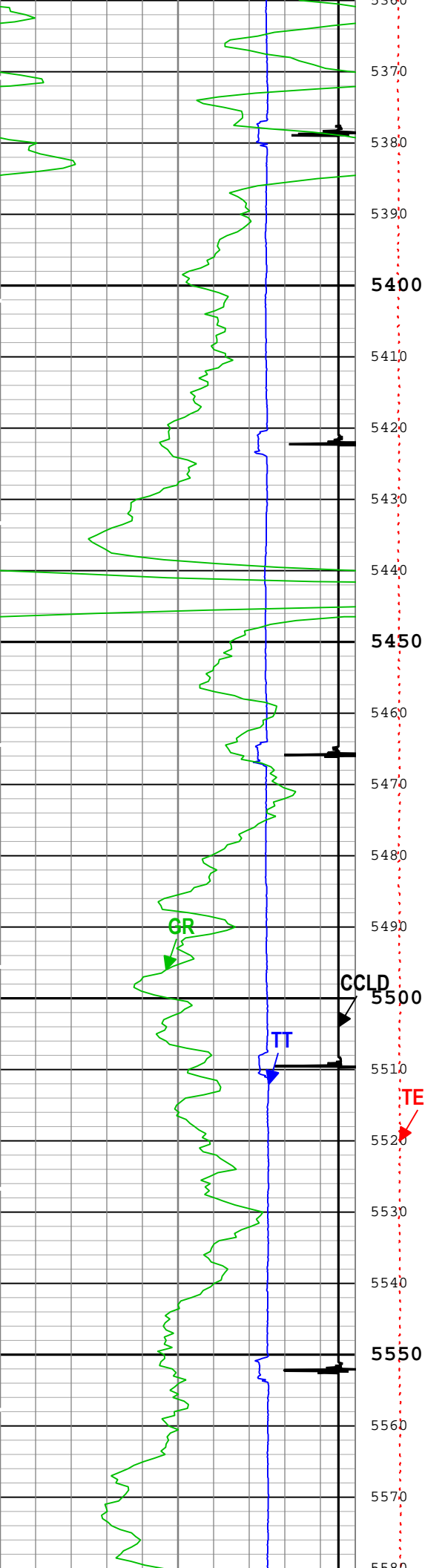


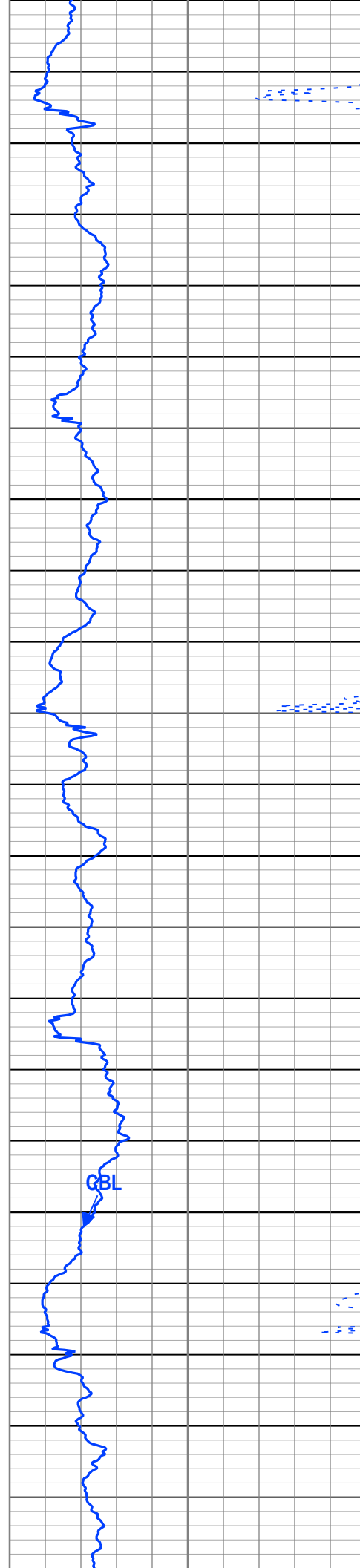
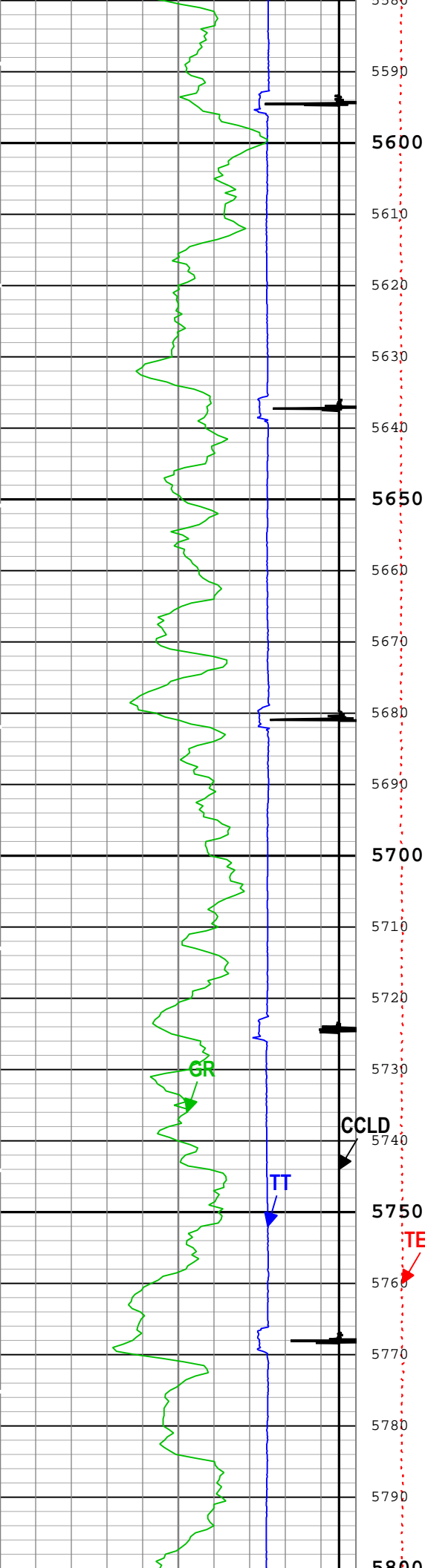


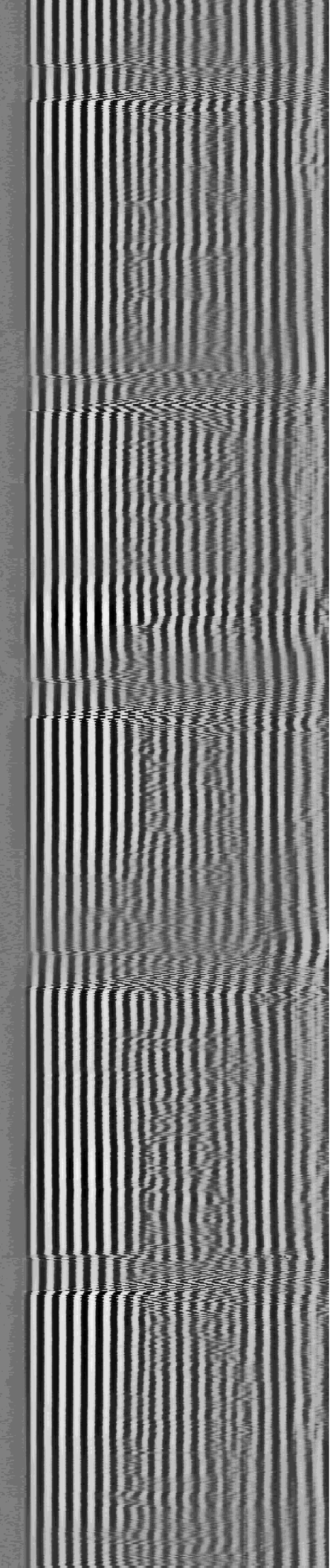
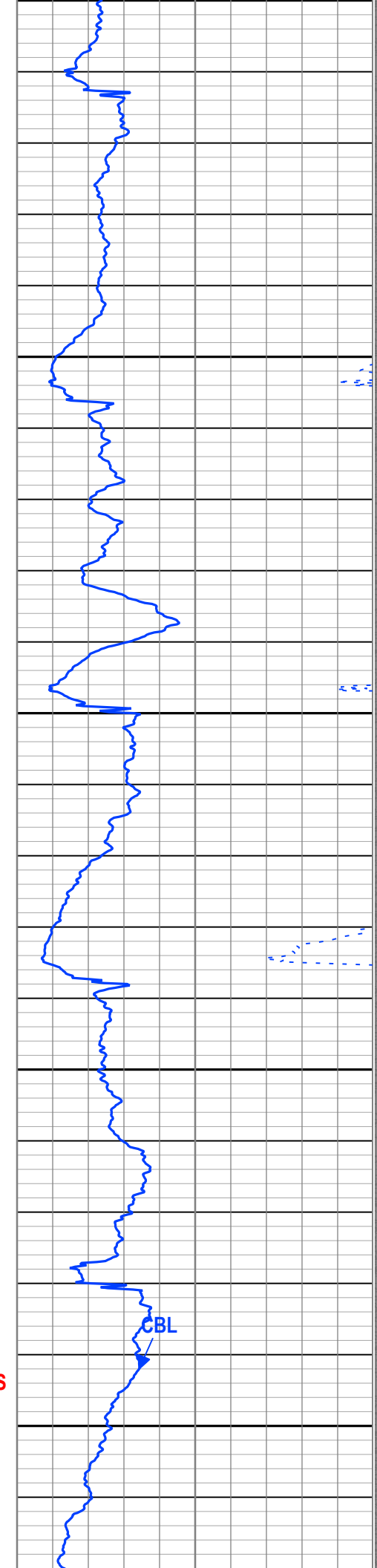
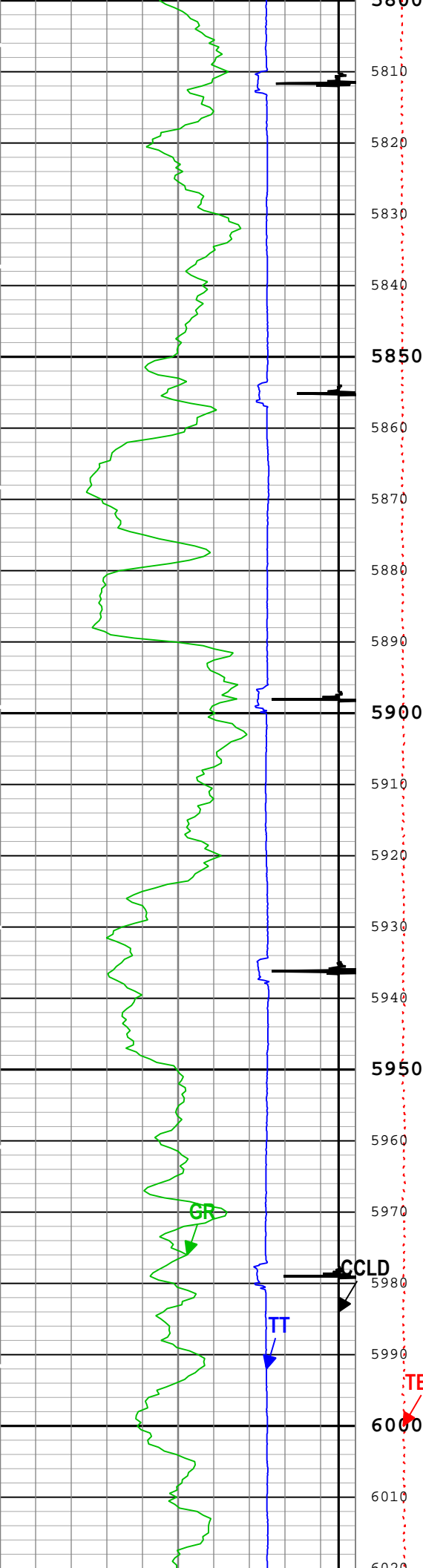


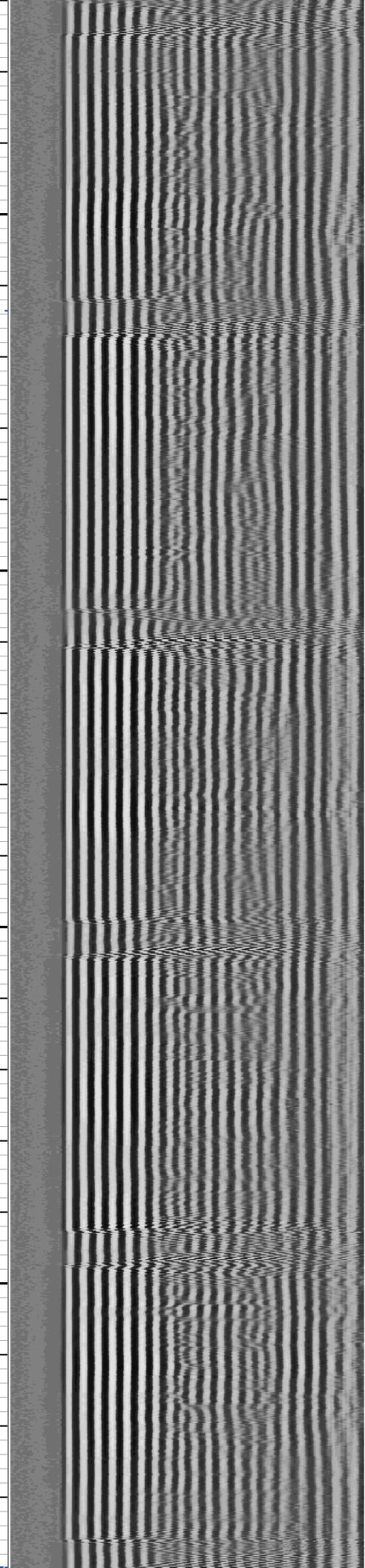
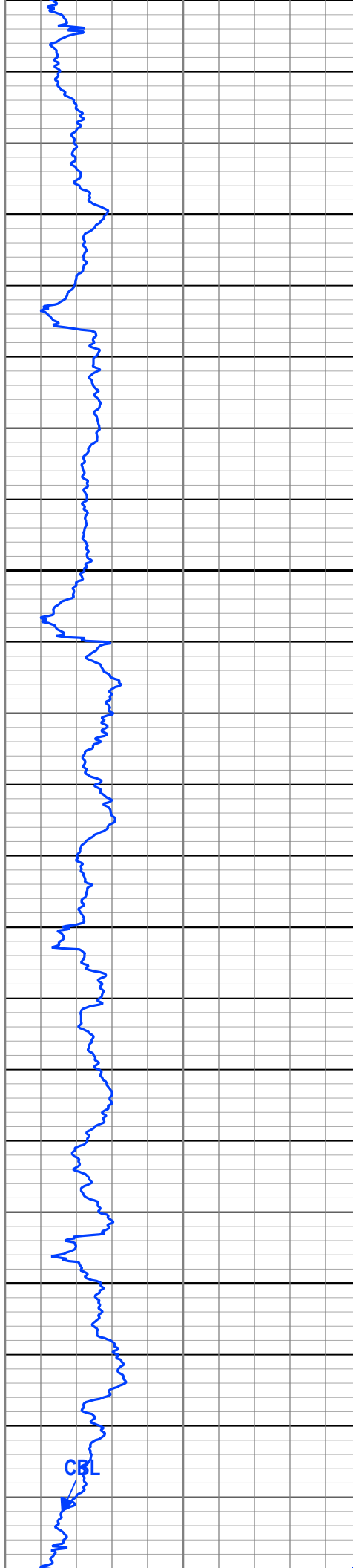
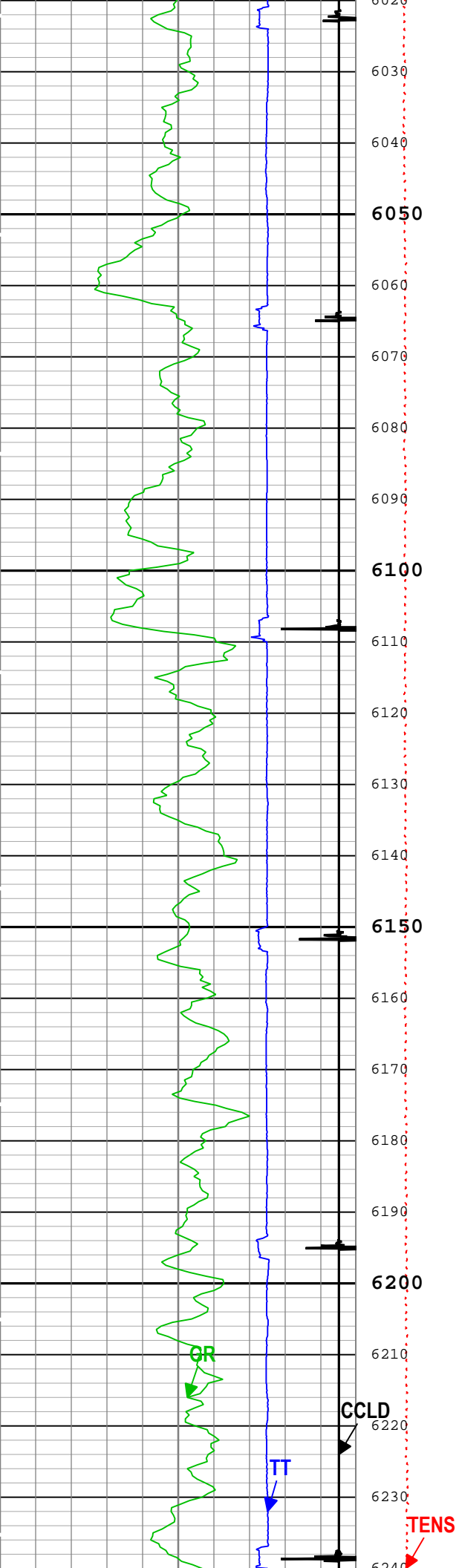


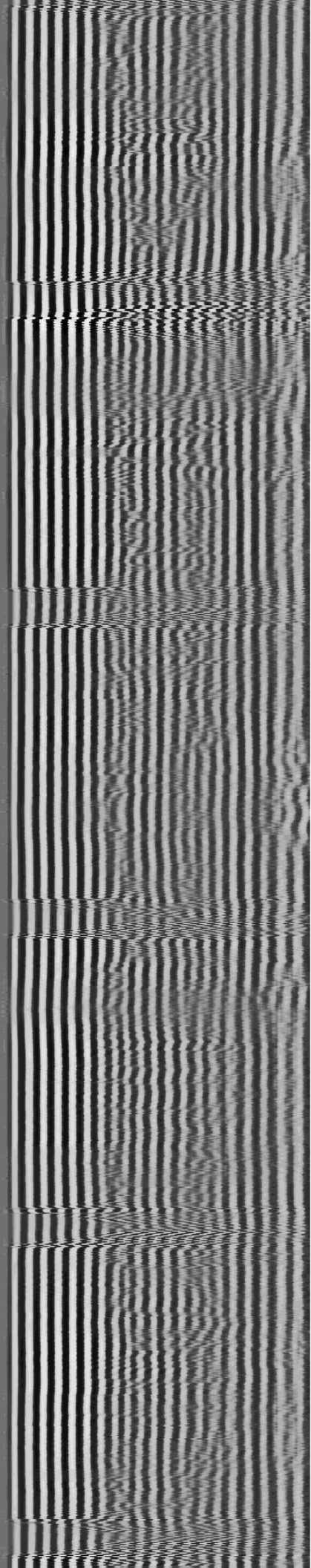
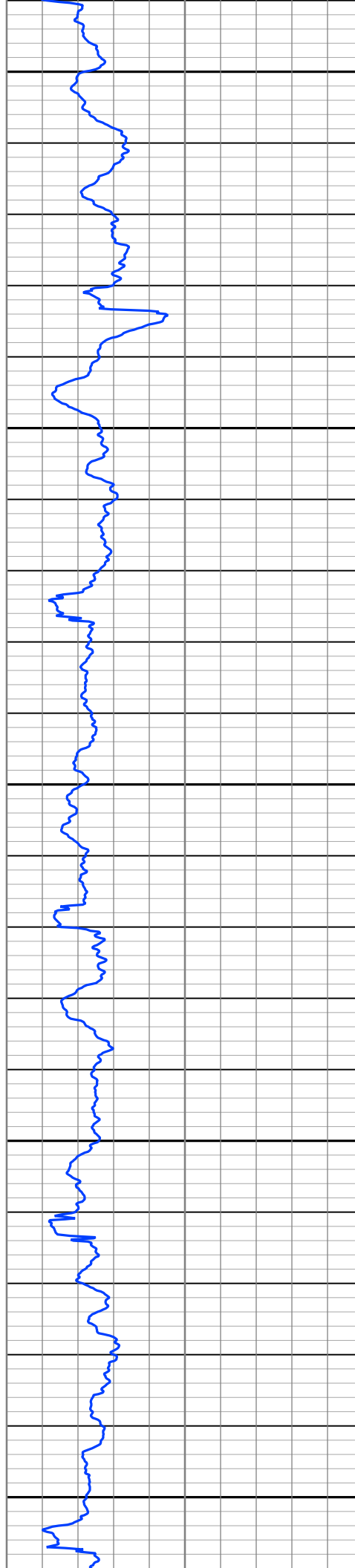
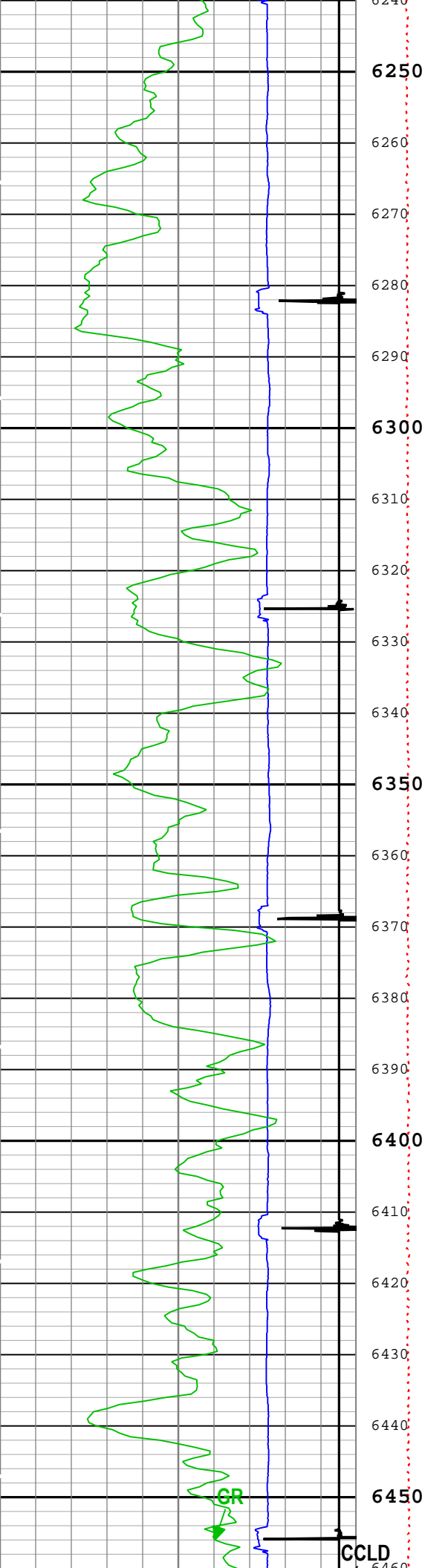


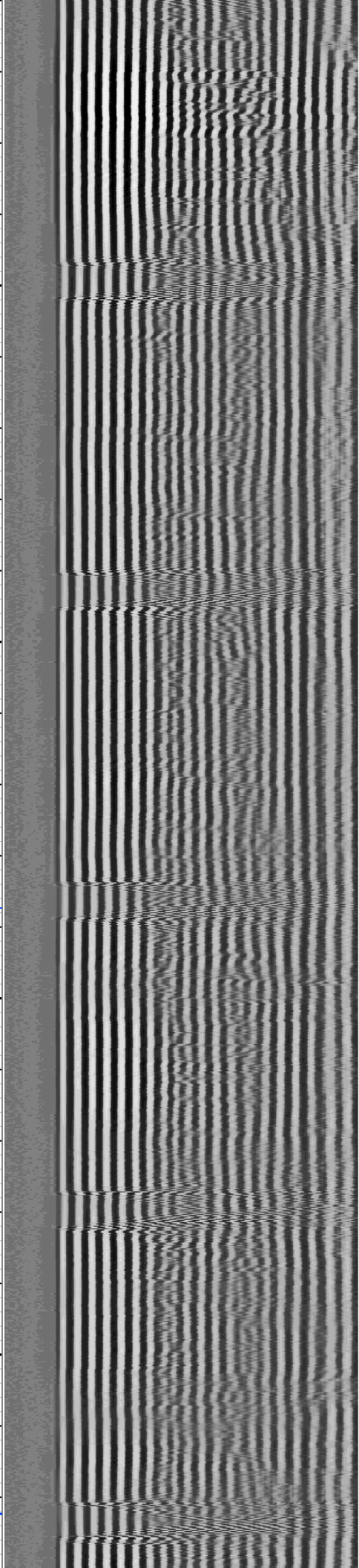
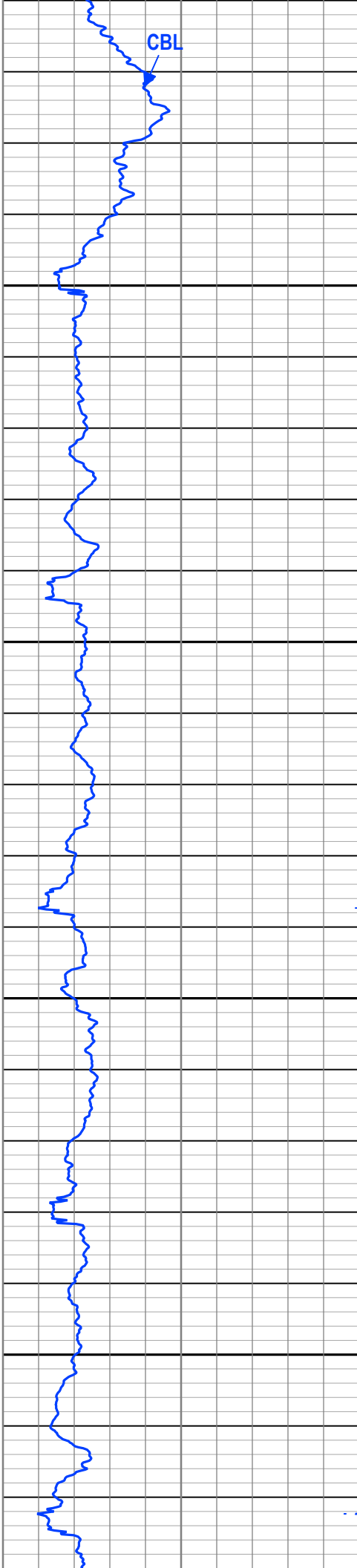
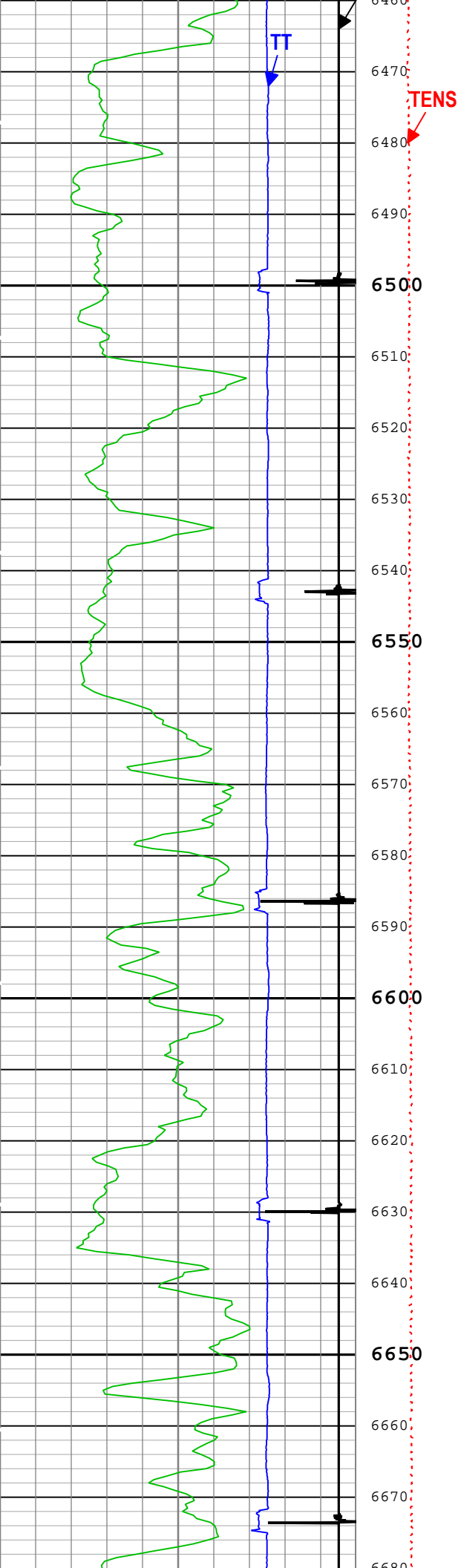


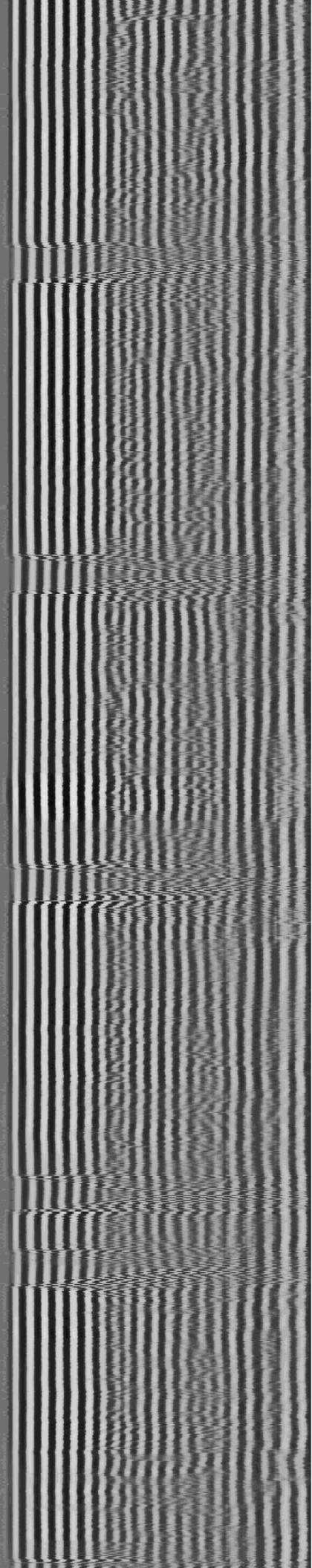
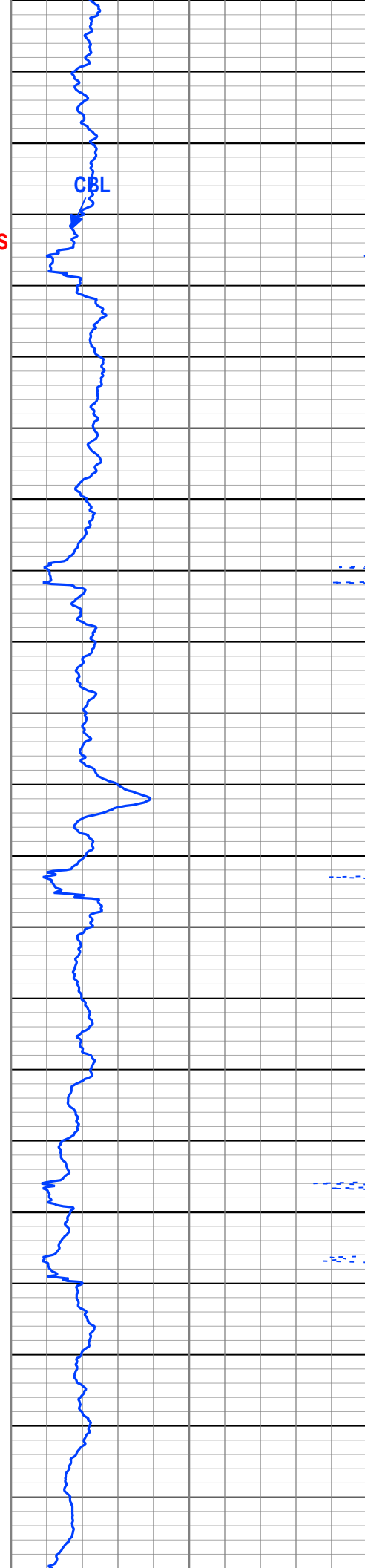
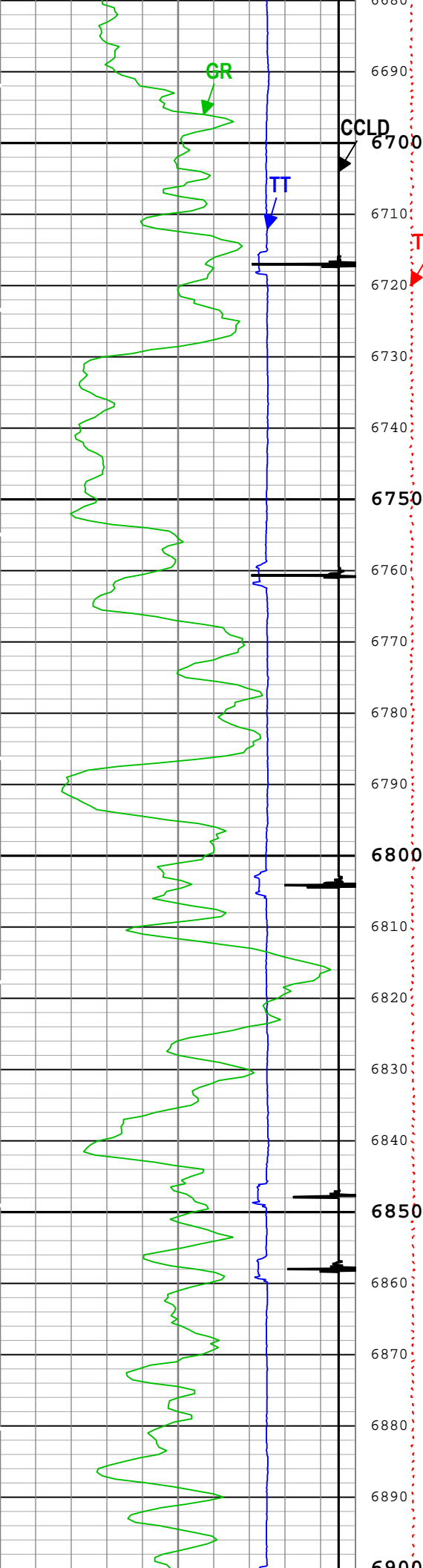


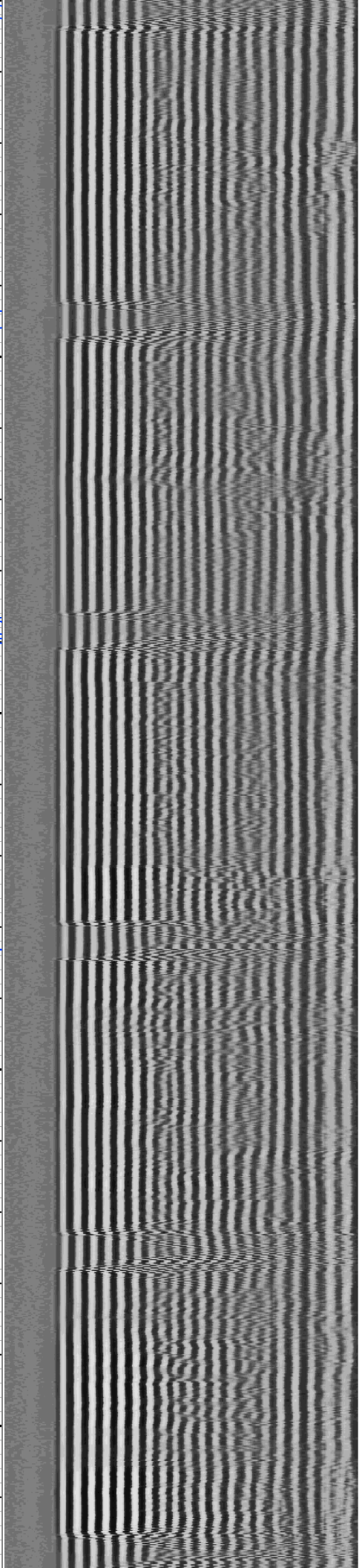
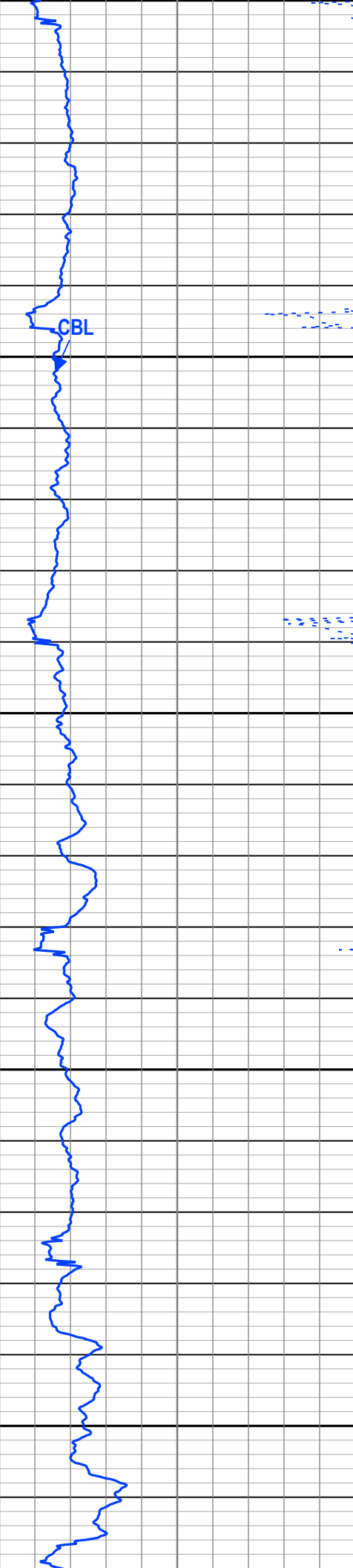
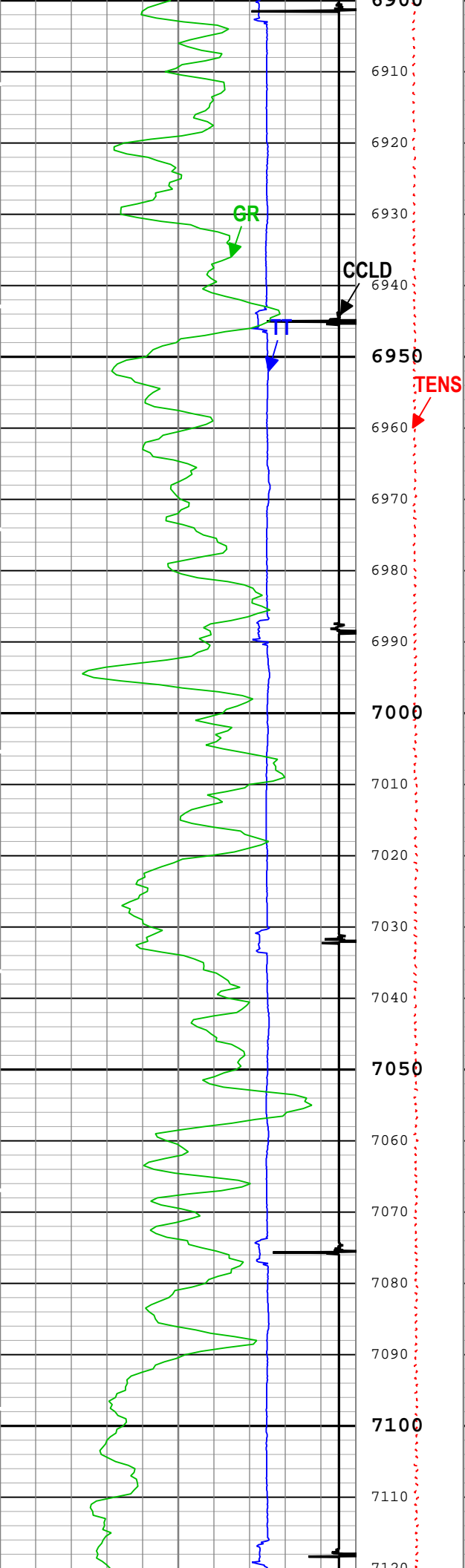


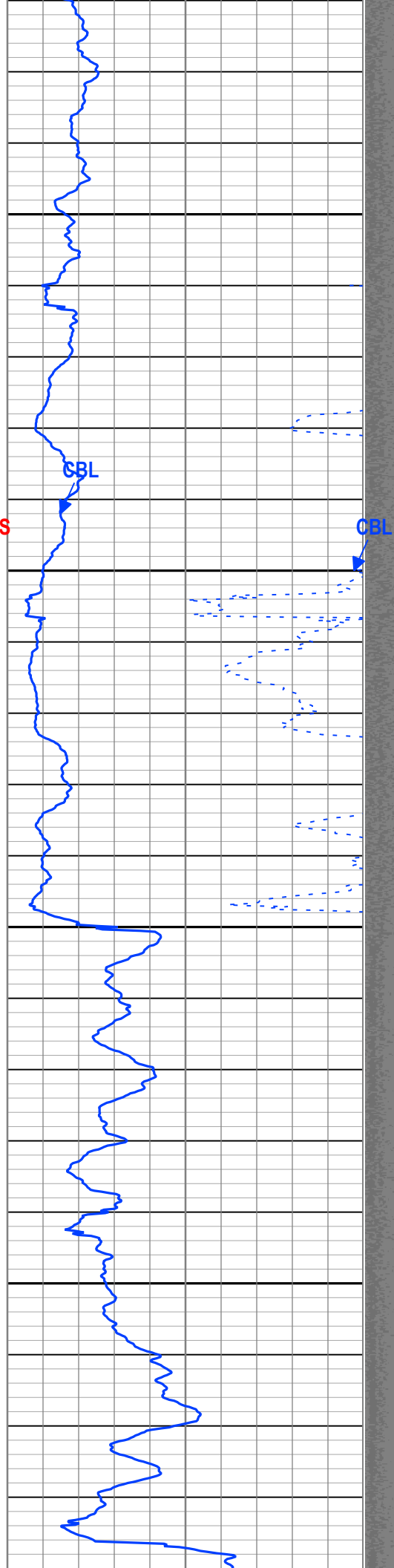
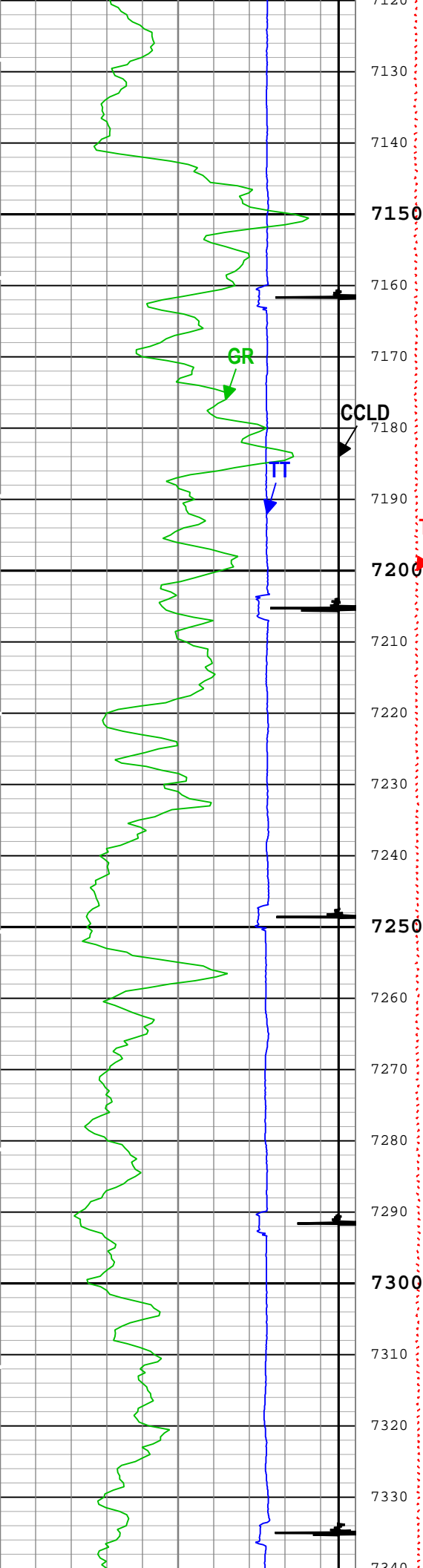


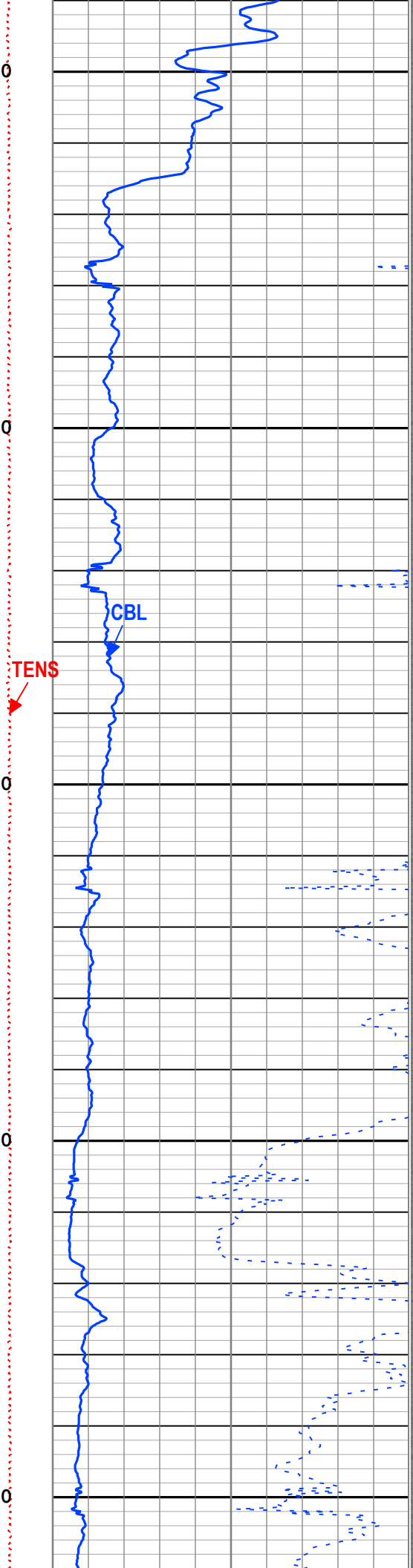
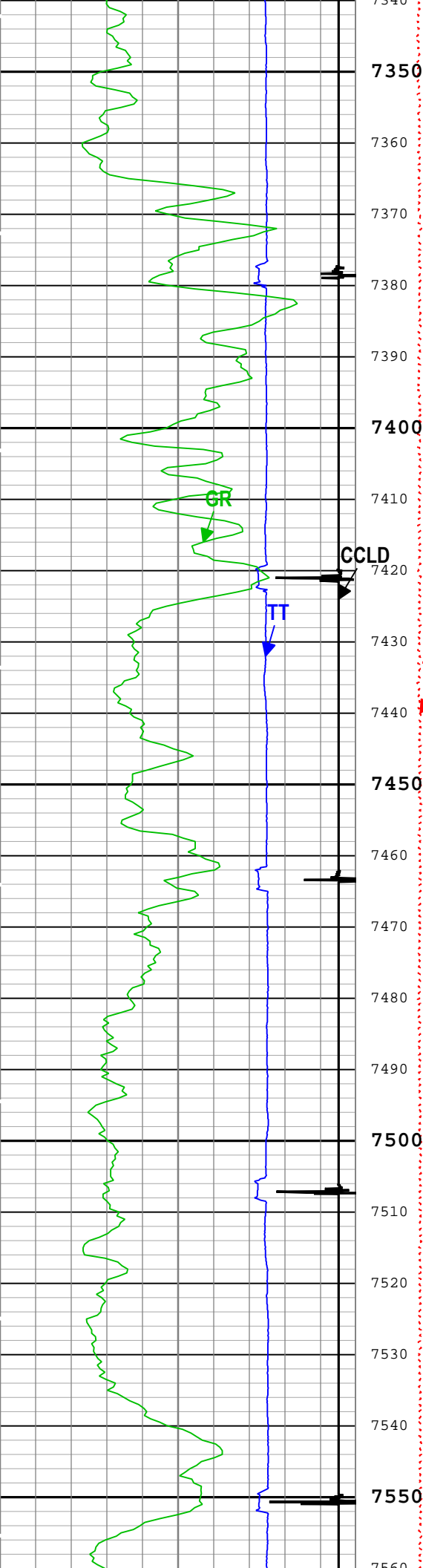


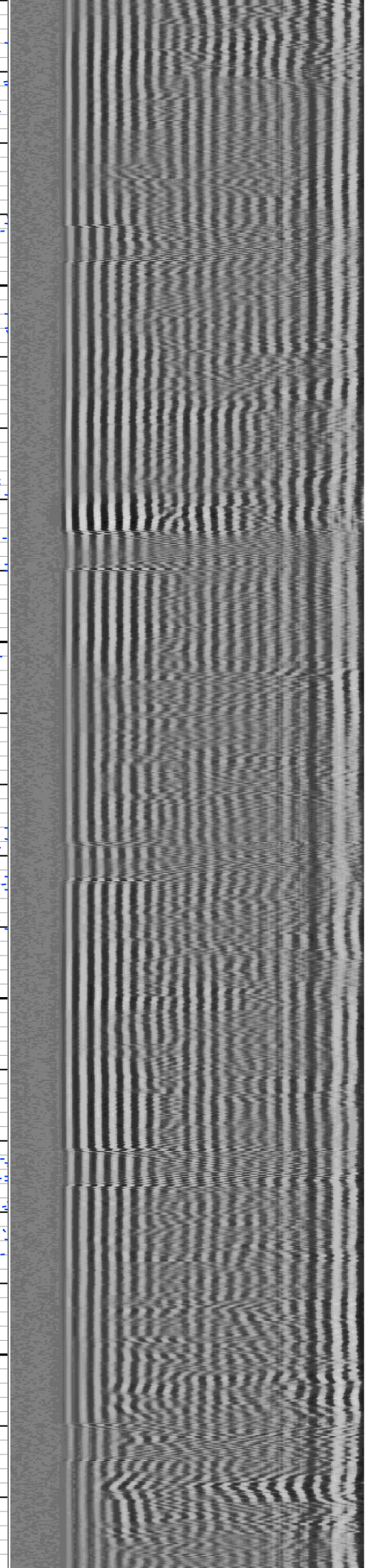
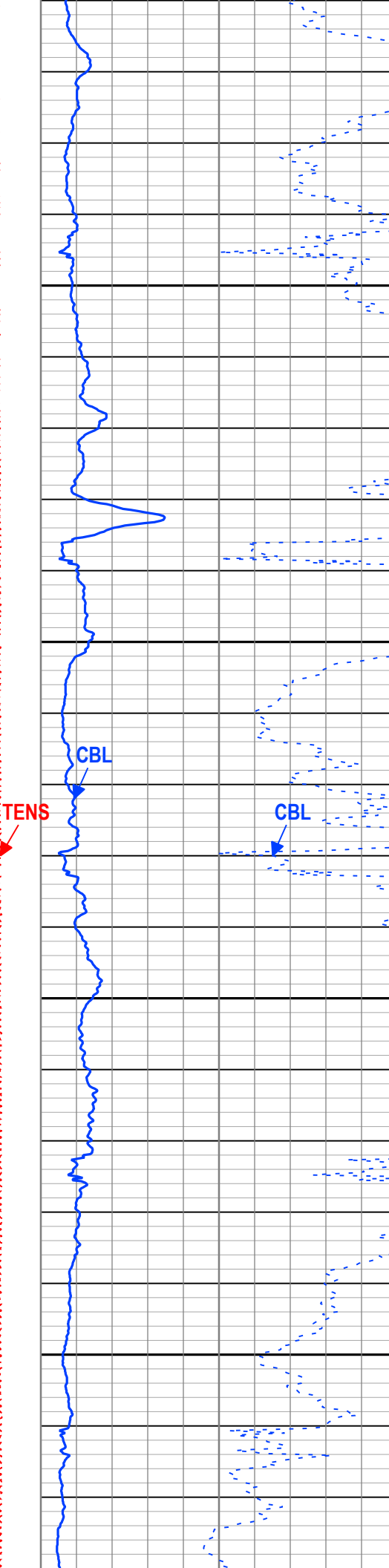
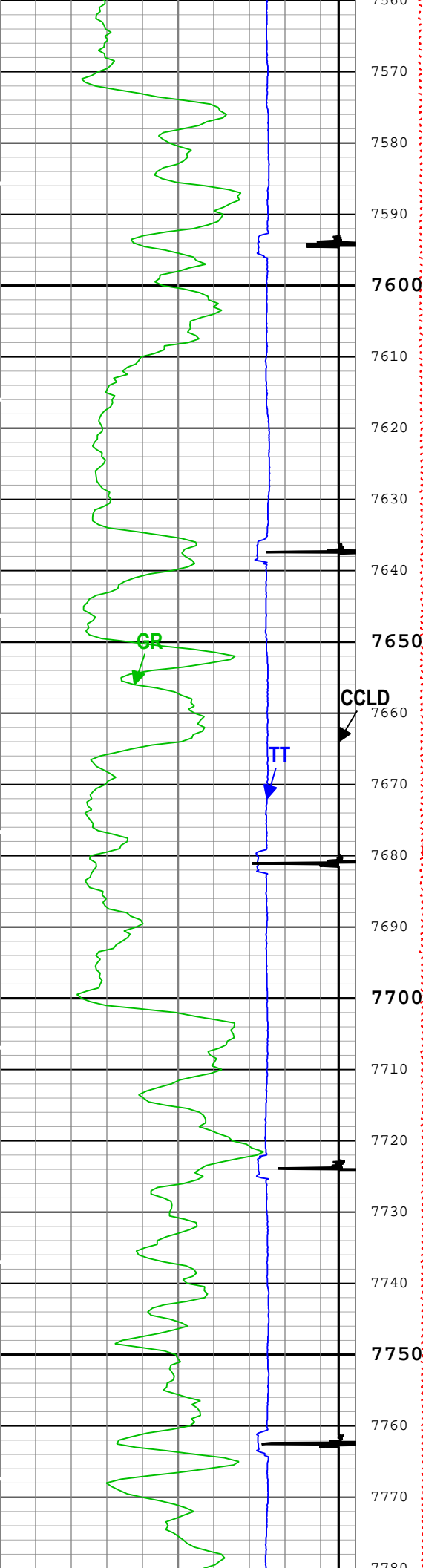


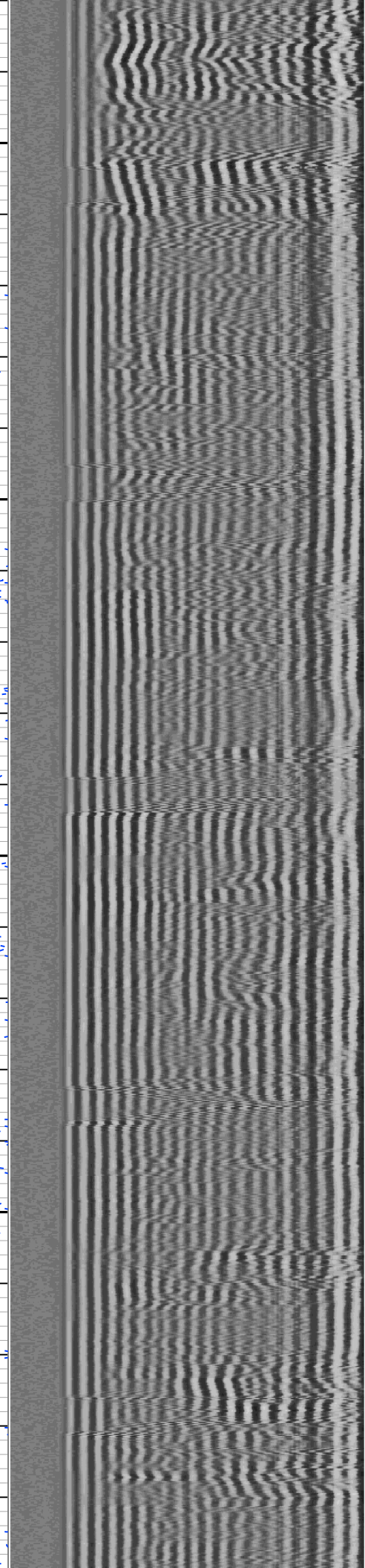
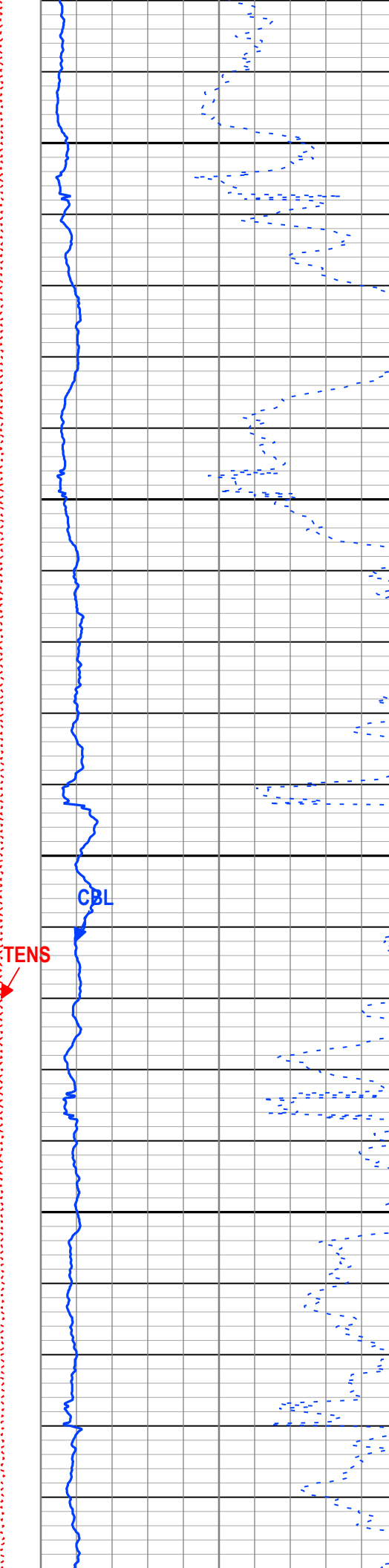
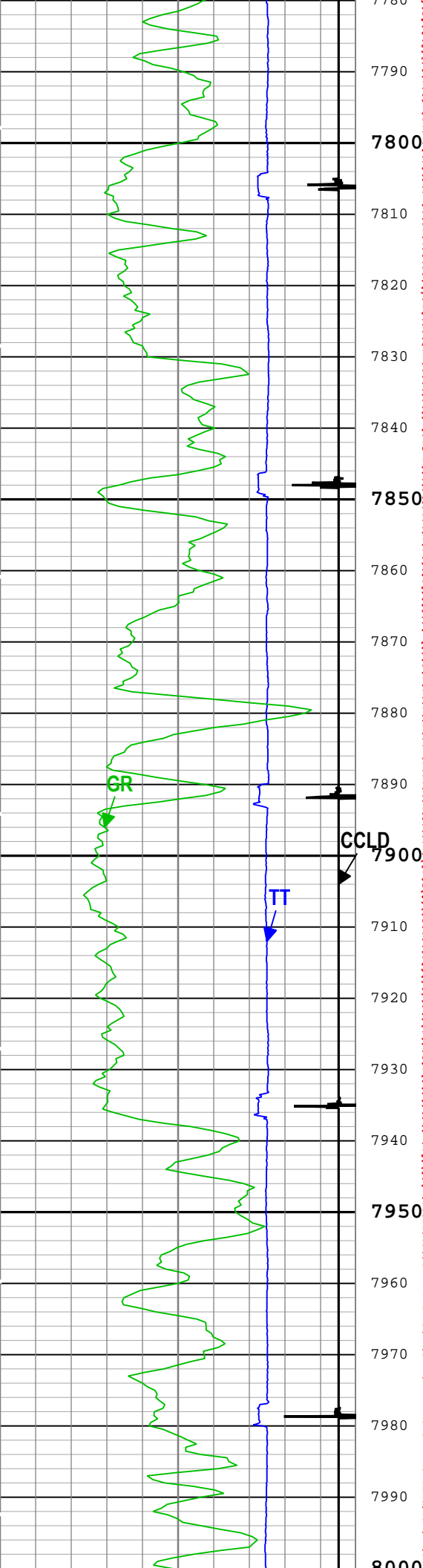


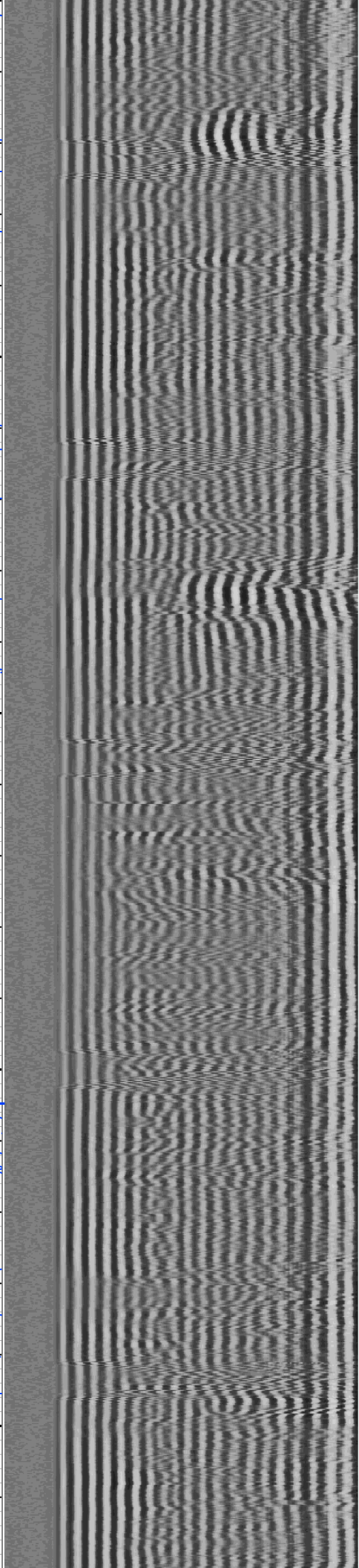
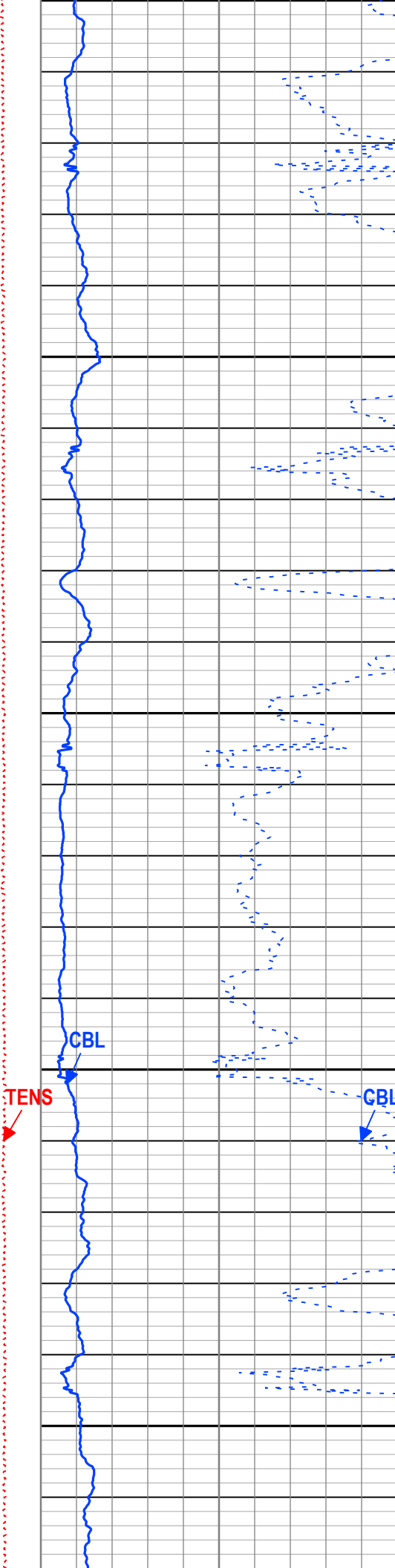
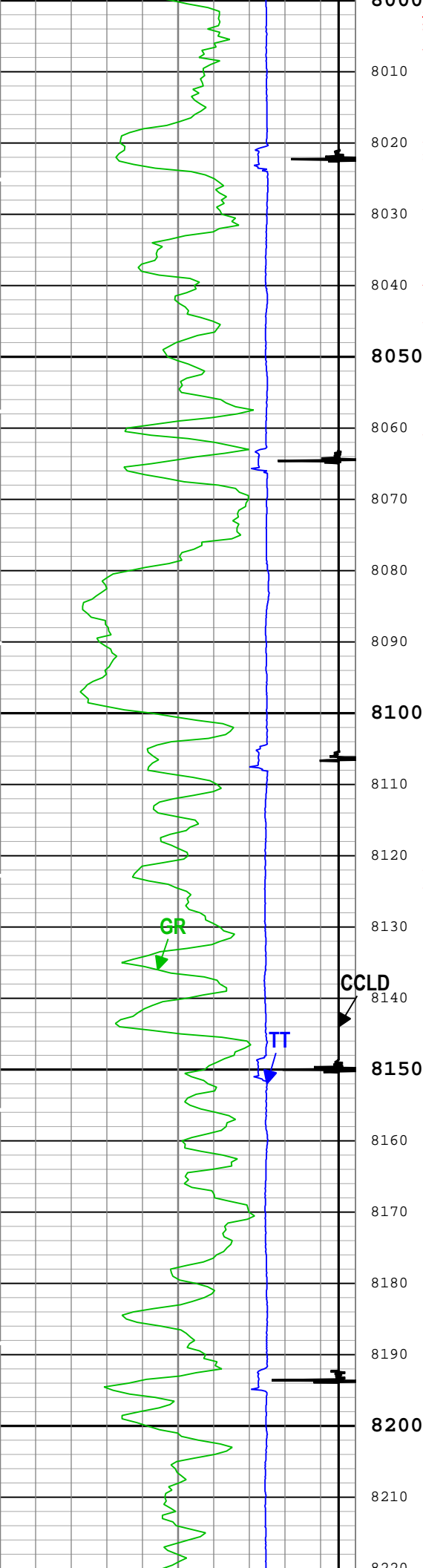


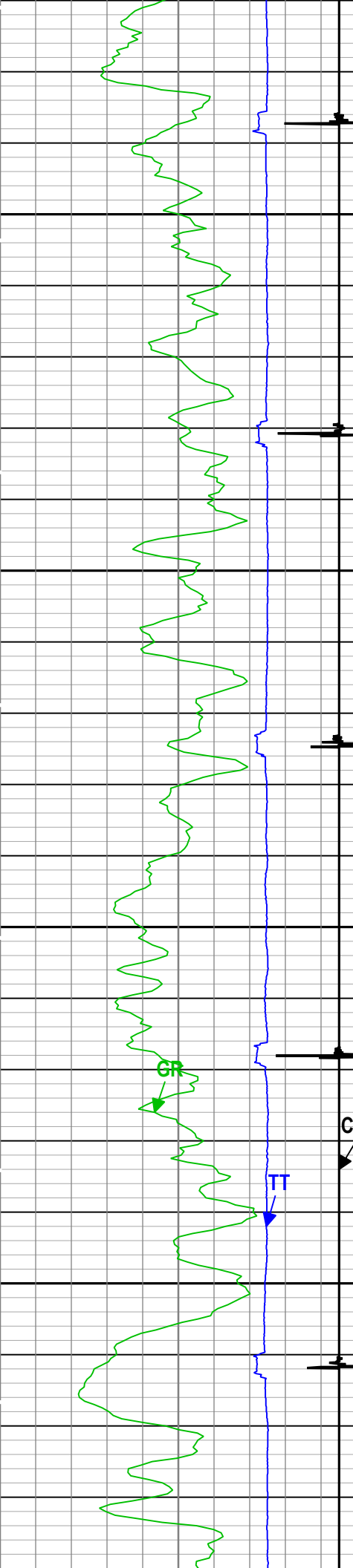




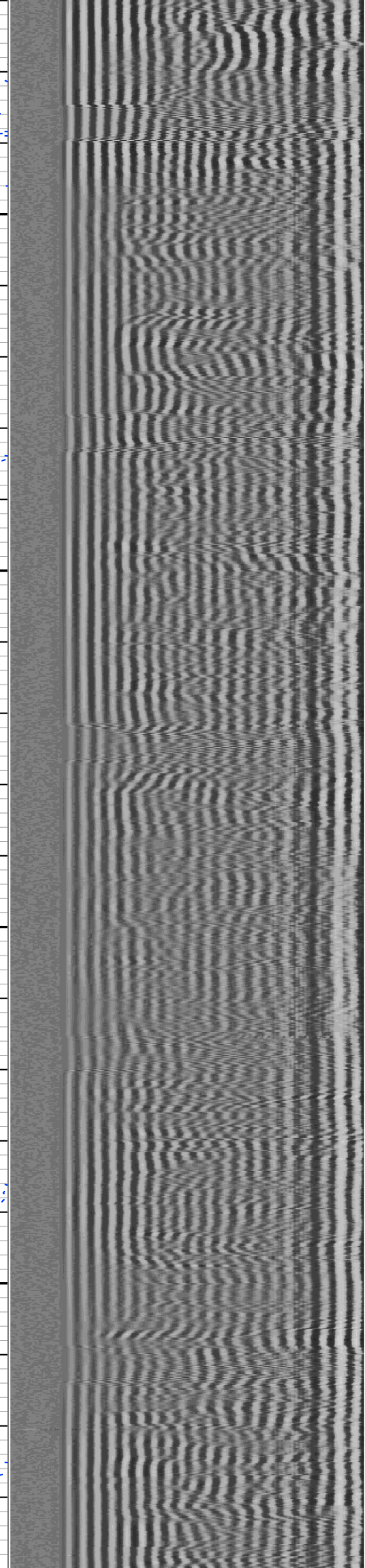
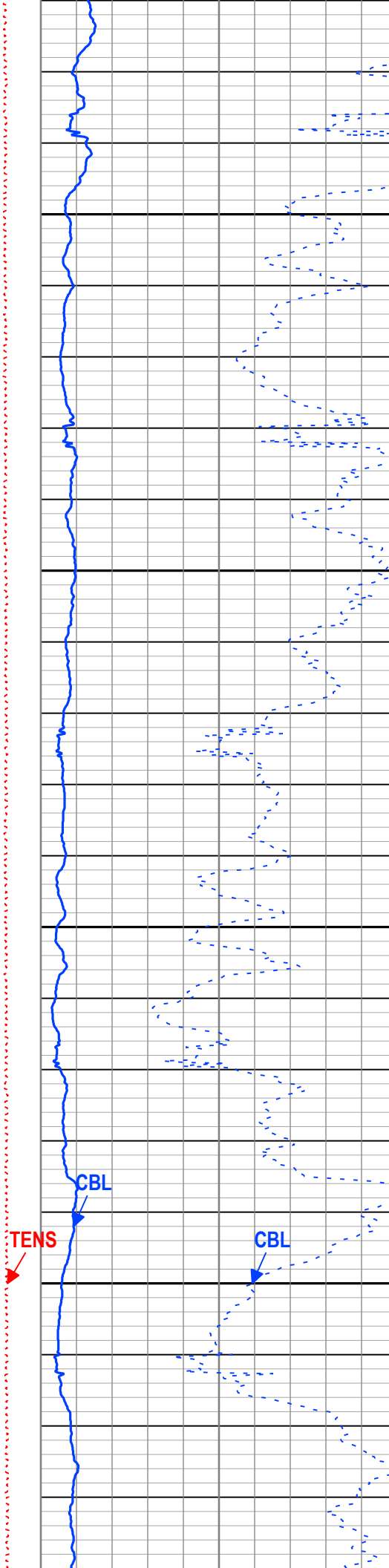


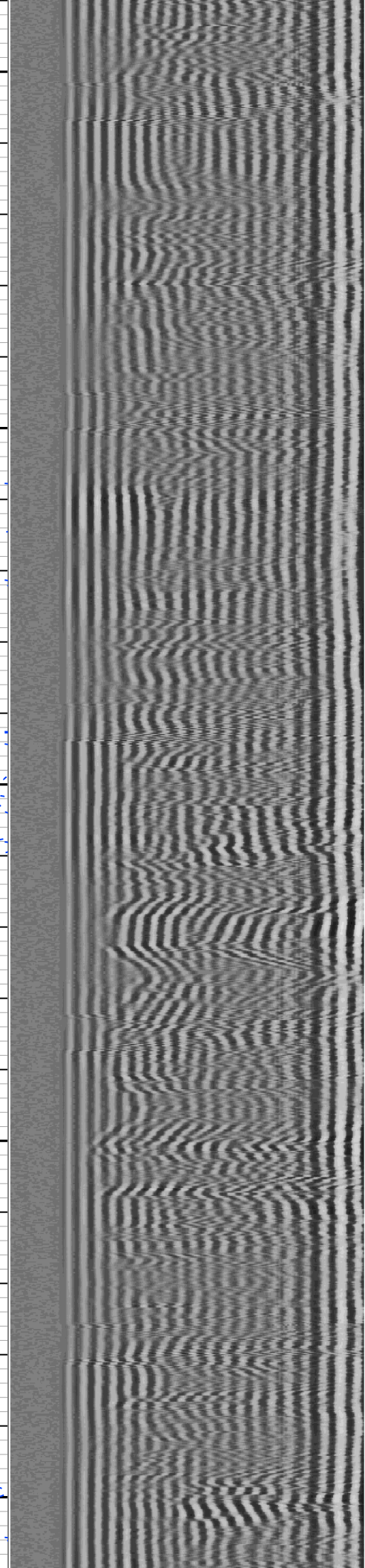
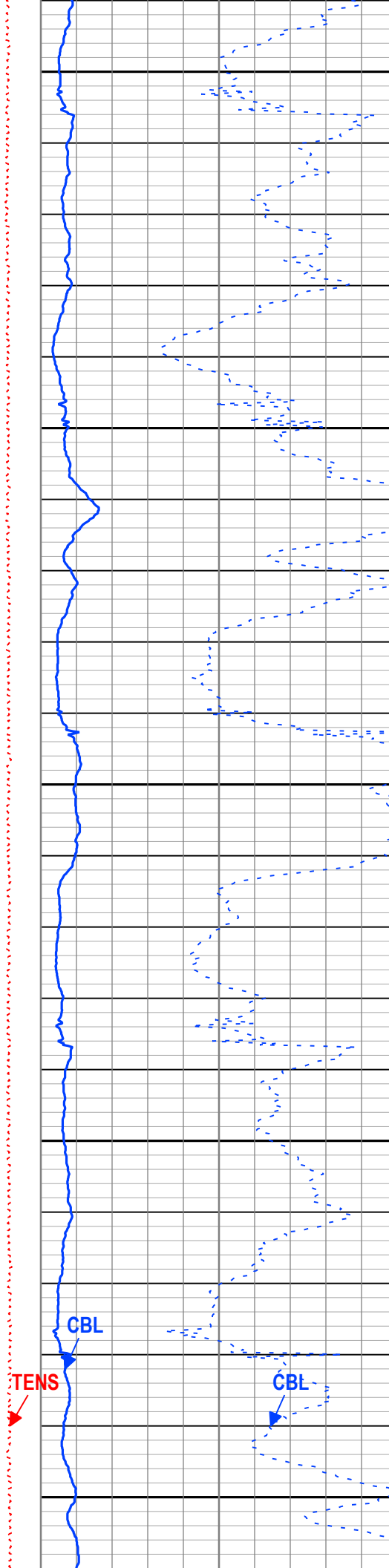
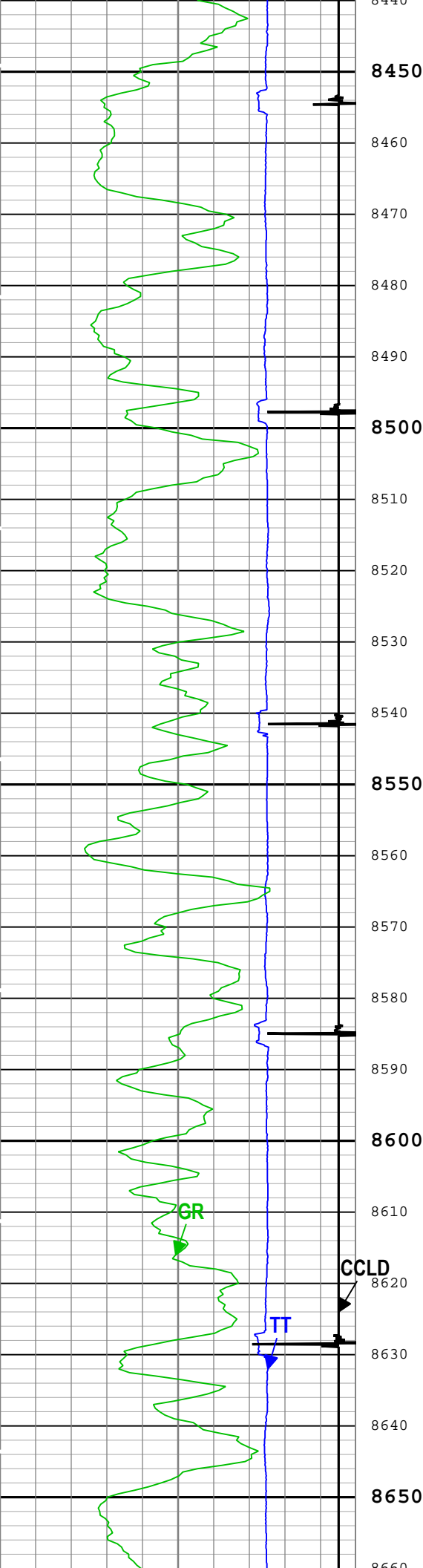


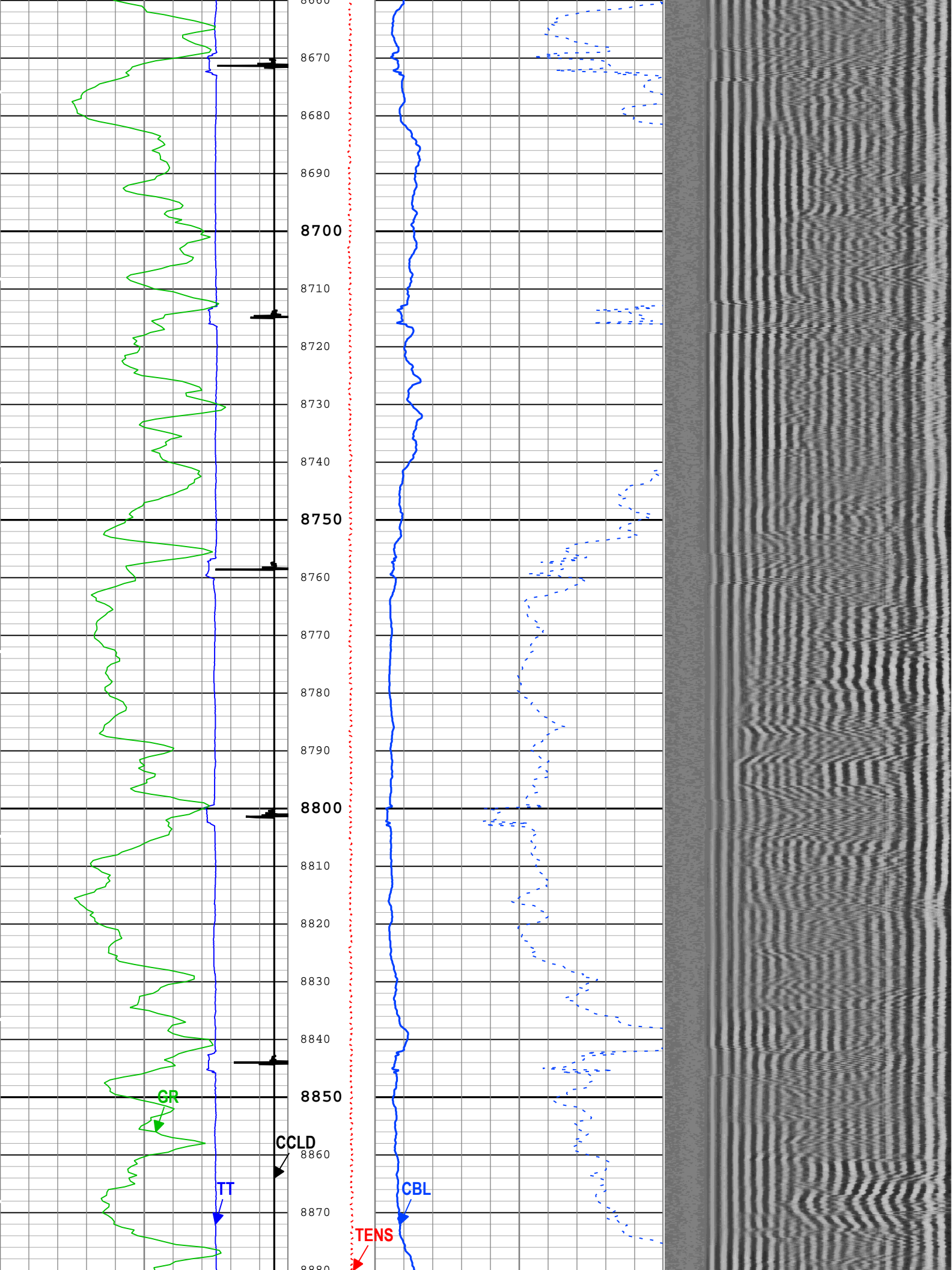


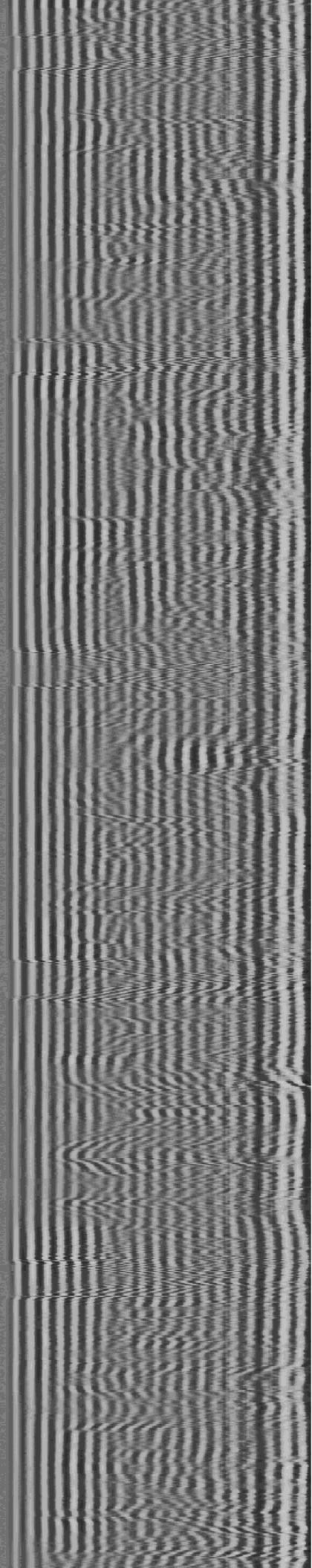
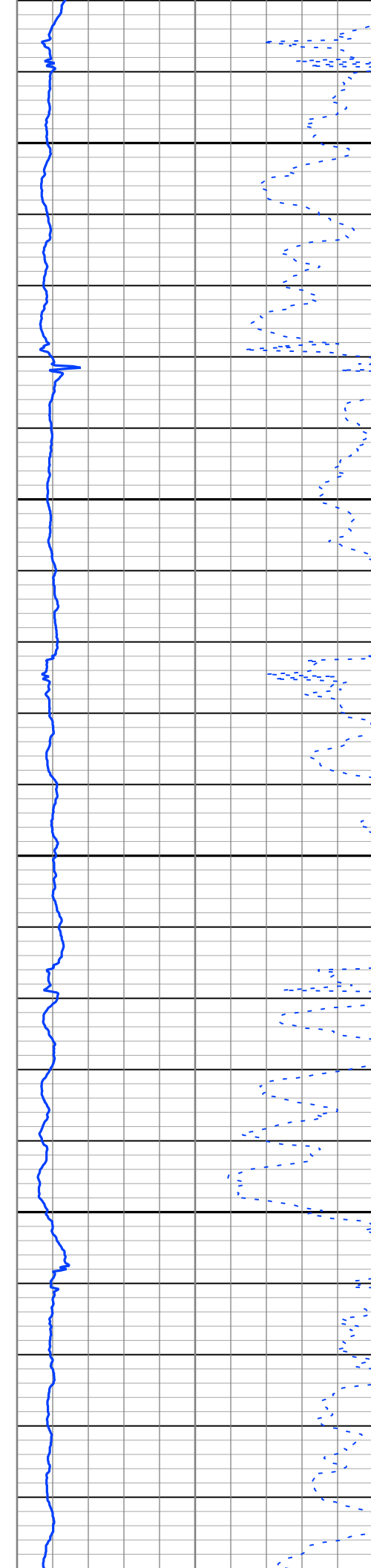
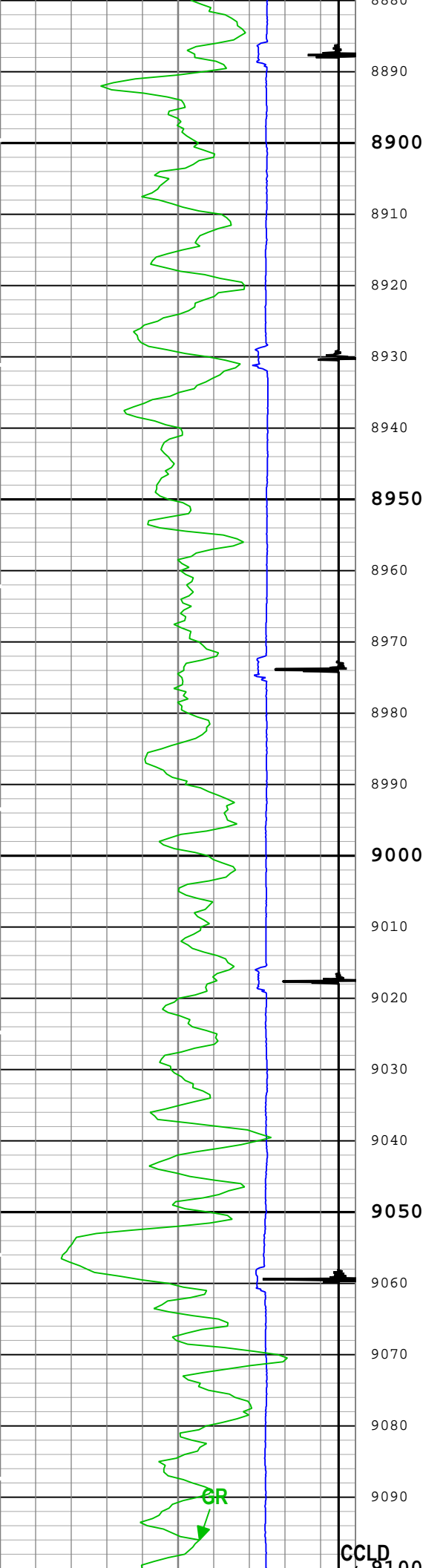


8220
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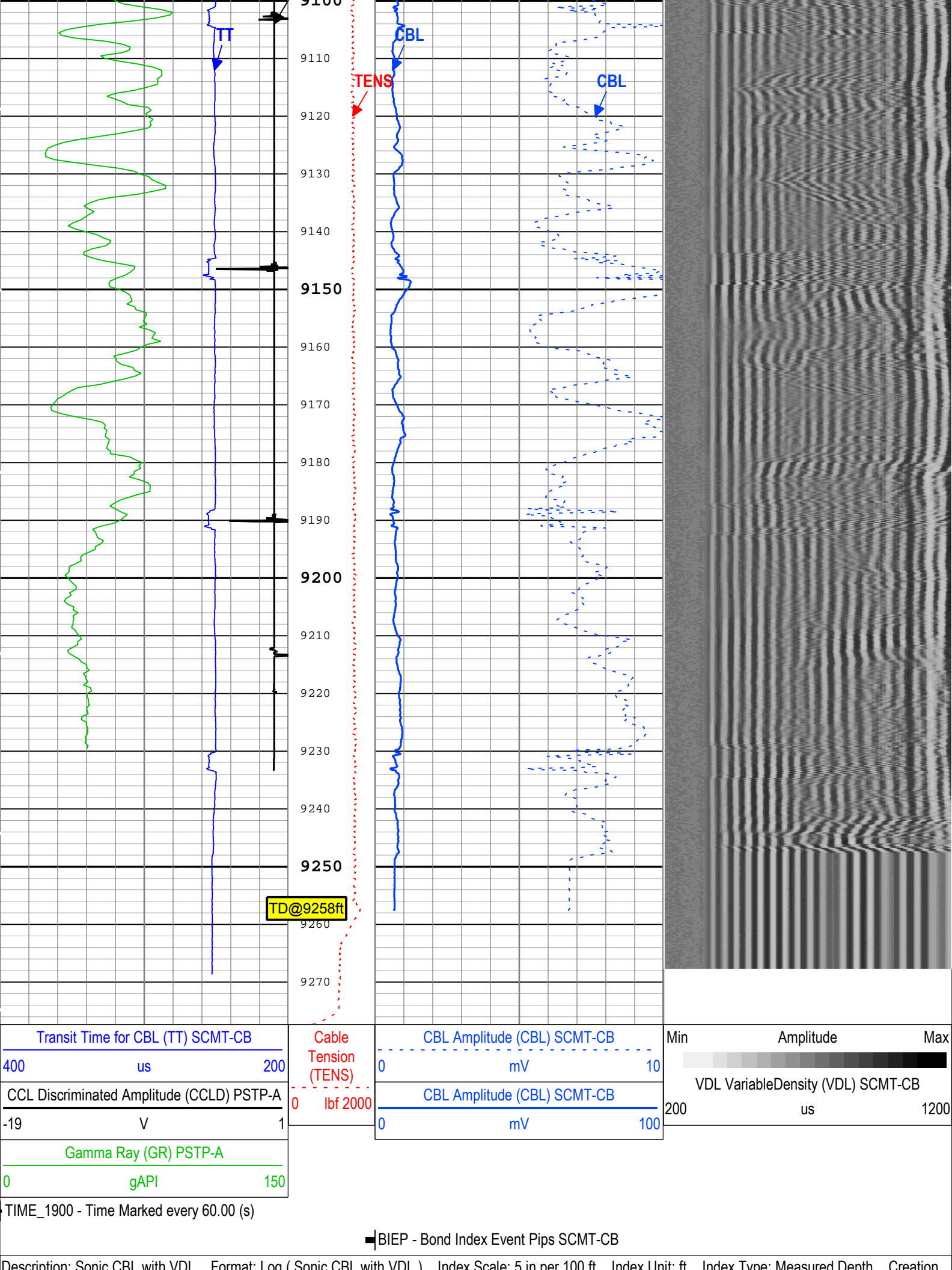








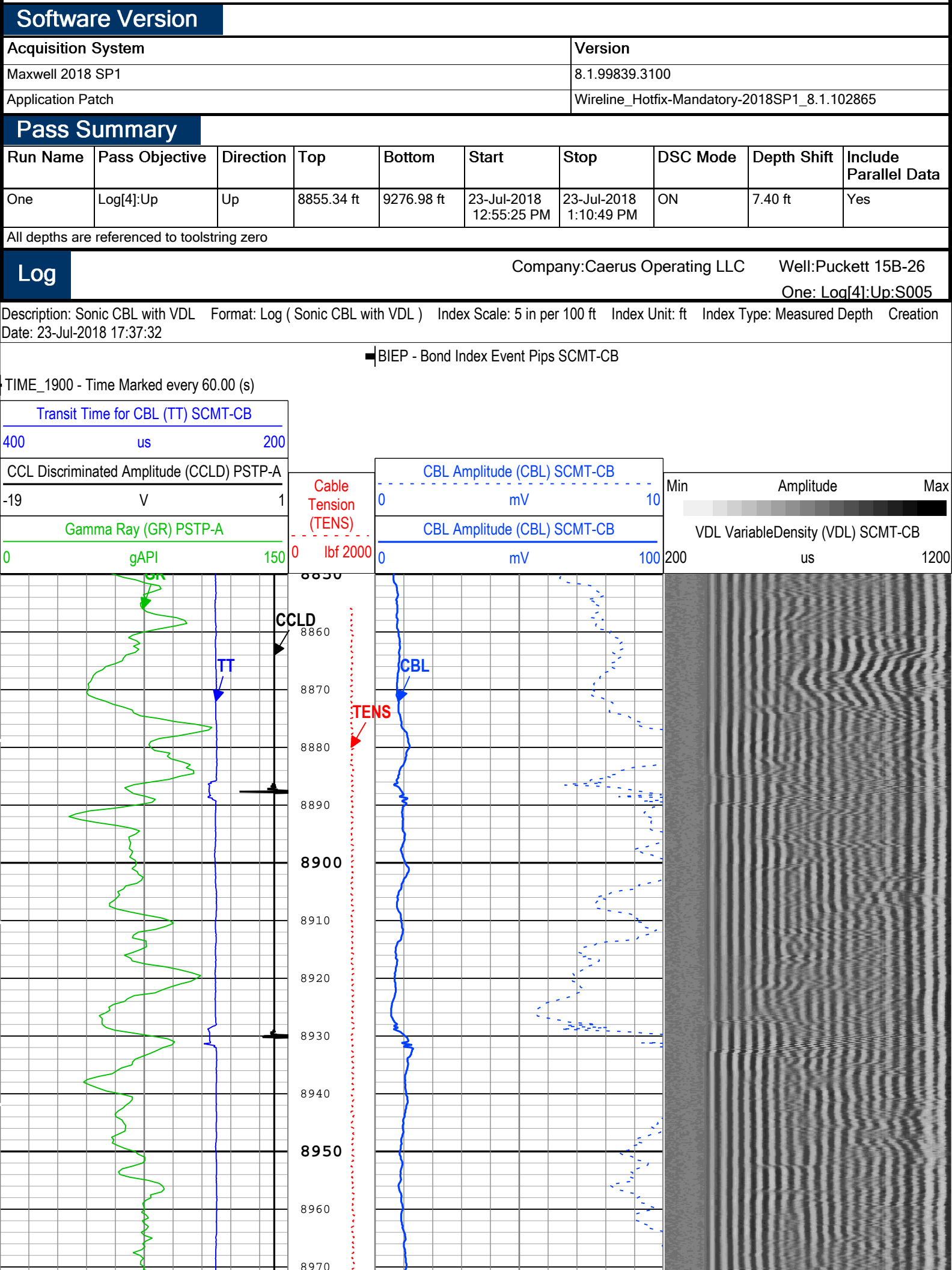
CCLD
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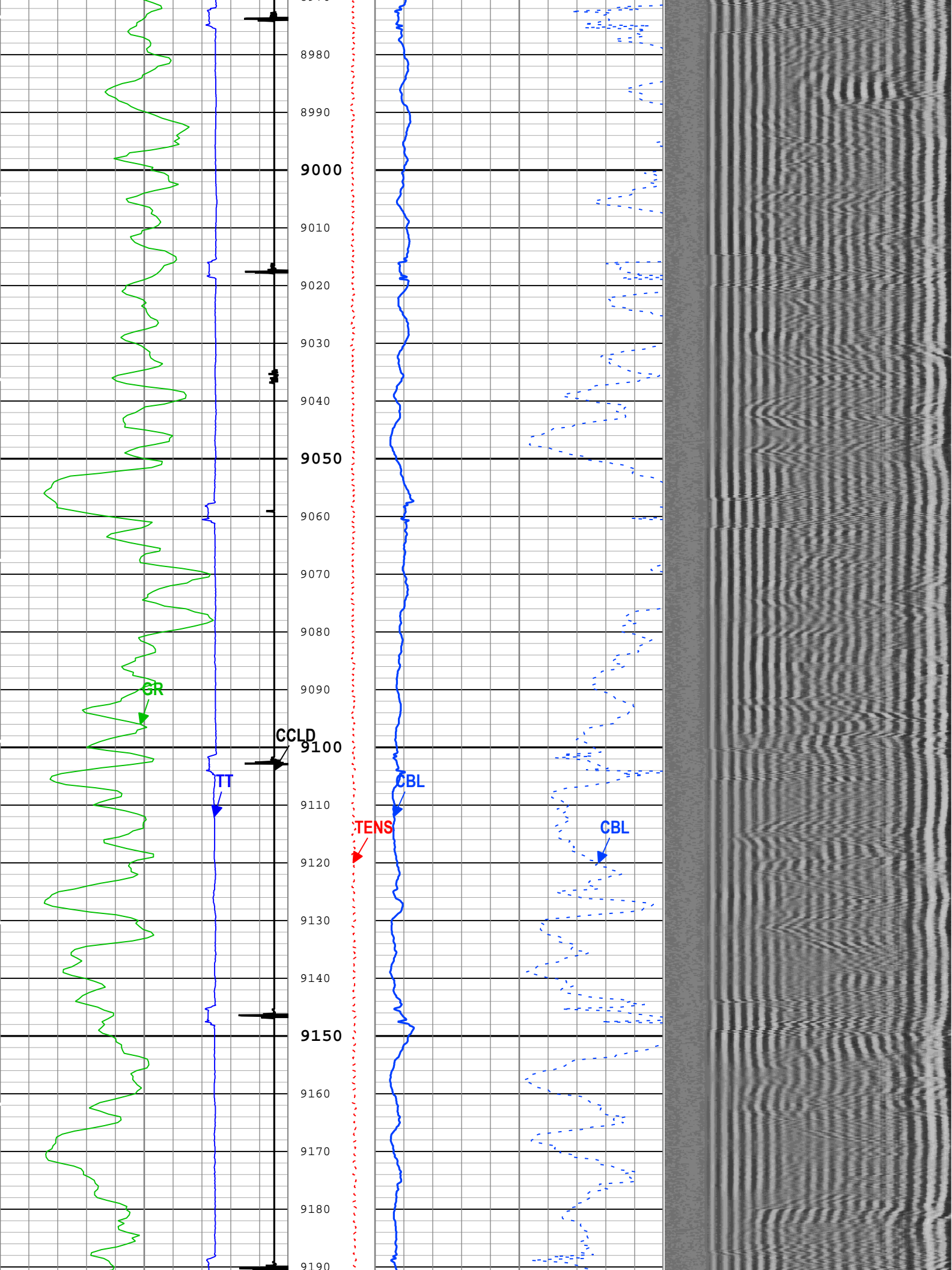


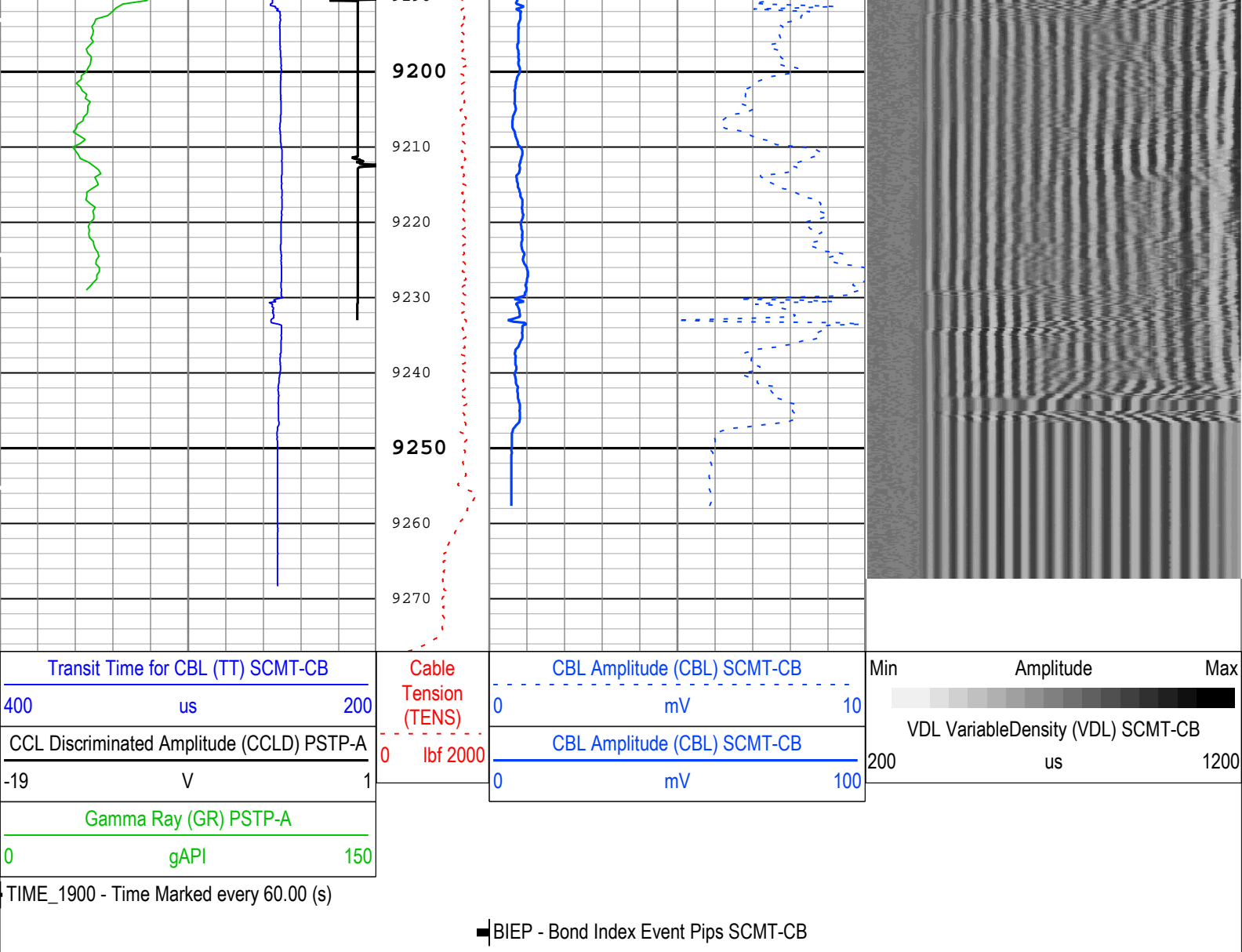
Channel Processing Parameters				
One: Parameters				
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	Depth Zoned	mV
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	Depth Zoned	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	Depth Zoned	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	Depth Zoned	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	Depth Zoned	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)
CBRA	80	2300	9258
CBRA	0	9258	9277.33
GOBO_CURR	1.4	2300	9258
GOBO_CURR	0	9258	9277.33
MATT_CURR	16.92	2300	9258
MATT_CURR	0	9258	9277.33
MCI	14.81	2300	2519.6
MCI	1.25	2519.6	9258
MCI	0	9258	9277.33
MSA	0.51	2300	9258
MSA	0	9258	9277.33
MSA_CURR	0.51	2300	9258
MSA_CURR	0	9258	9277.33
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-A	24 dB	
One				
CBL-VDL Repeat Pass				







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 17:37:32

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	Depth Zoned	mV
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	Depth Zoned	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	Depth Zoned	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	Depth Zoned	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	Depth Zoned	mV
PDAT	Permanent Datum	WLSESSION	8322	ft

PDA1	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)
CBRA	80	8850	9258
CBRA	0	9258	9277
GOBO_CURR	1.4	8850	9258
GOBO_CURR	0	9258	9277
MATT_CURR	16.92	8850	9258
MATT_CURR	0	9258	9277
MCI	1.25	8850	9258
MCI	0	9258	9277
MSA	0.51	8850	9258
MSA	0	9258	9277
MSA_CURR	0.51	8850	9258
MSA_CURR	0	9258	9277
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-A	24 dB	

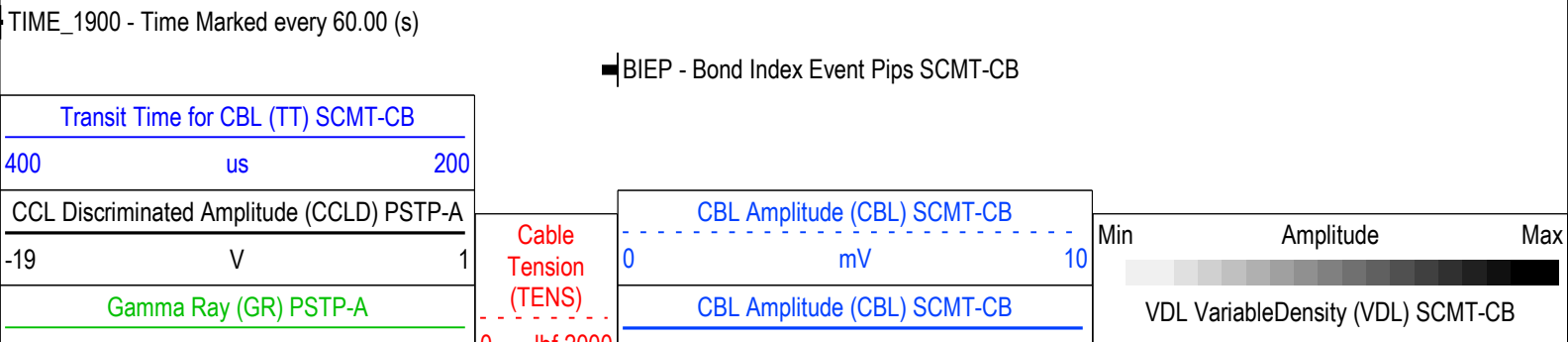
One				
CBL-VDL Free Pipe				

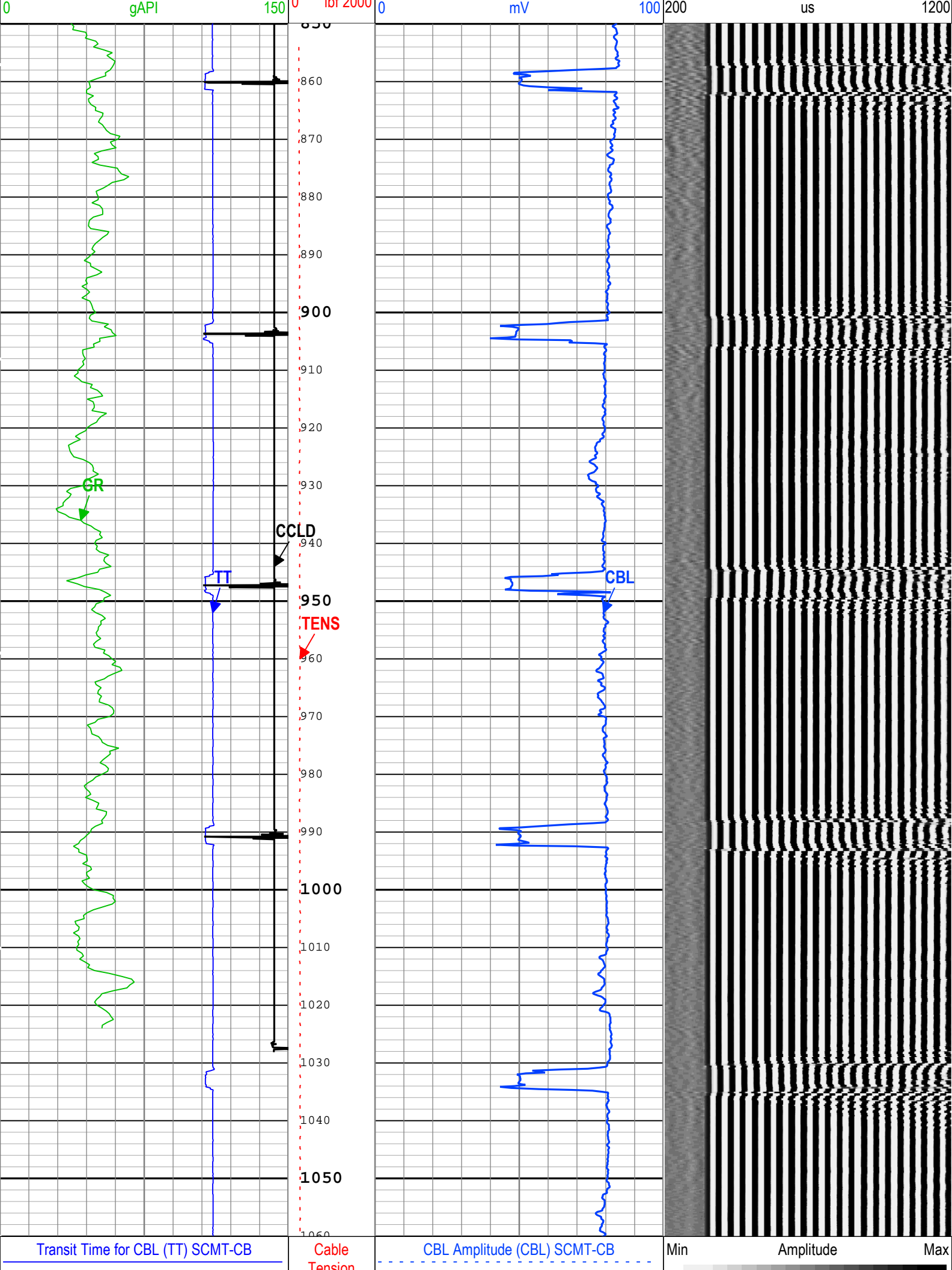
Software Version	
Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[2]:Up	Up	852.78 ft	1072.14 ft	23-Jul-2018 12:26:33 PM	23-Jul-2018 12:31:11 PM	ON	0.00 ft	Yes

All depths are referenced to toolstring zero									
Log		Company:Caerus Operating LLC Well:Puckett 15B-26 One: Log[2]:Up:S005							

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 17:37:33





400	us	200	Pressure (TENS)	0	mV	10	VDL VariableDensity (VDL)	SCMT-CB	
CCL Discriminated Amplitude (CCLD) PSTP-A			0	lbf 2000	CBL Amplitude (CBL) SCMT-CB		200	us	1200
-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 17:37:33									

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
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

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

Pass Summary

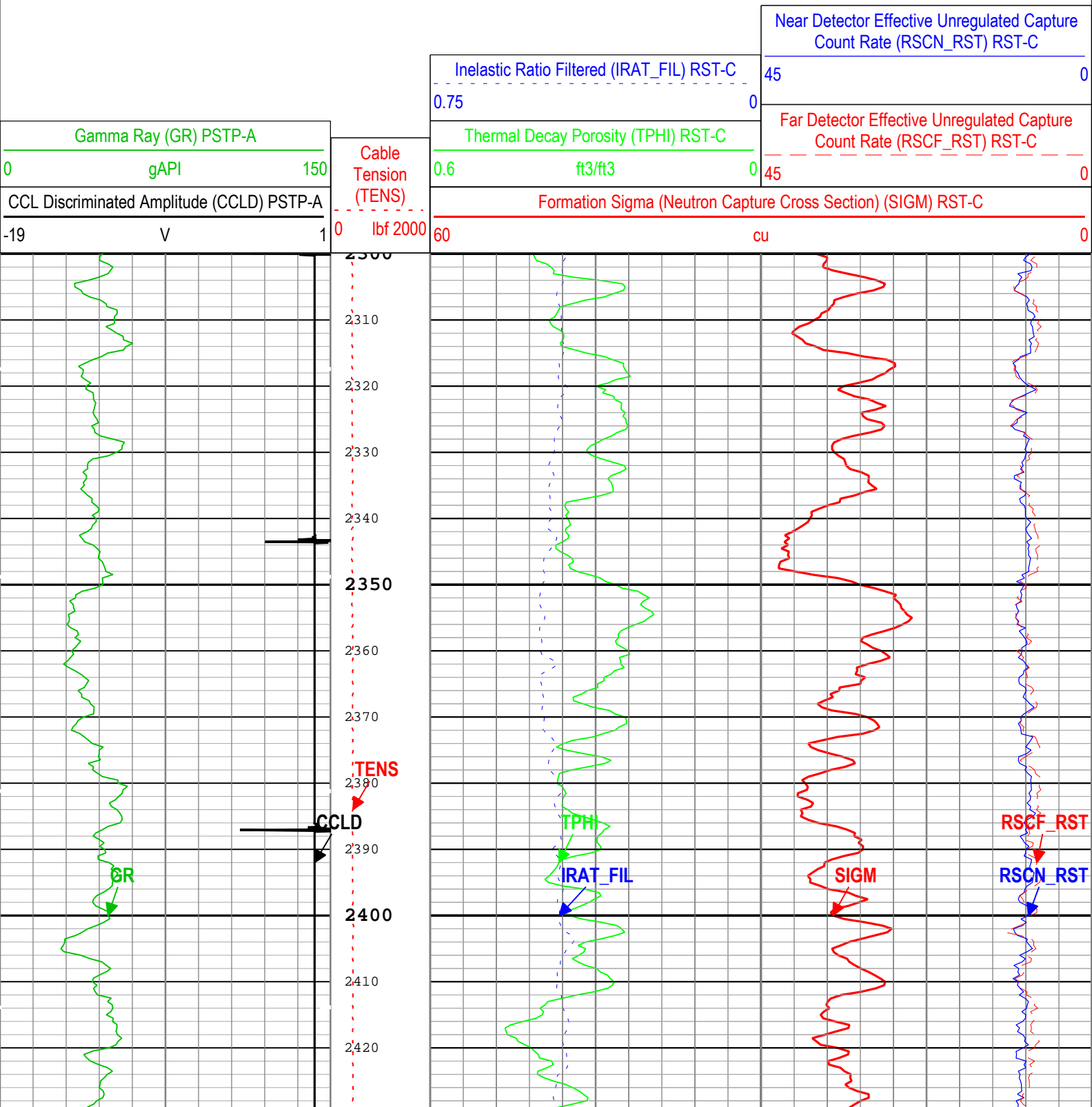
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[5]:Up	Up	2287.33 ft	9277.31 ft	23-Jul-2018	23-Jul-2018	ON	8.10 ft	Yes

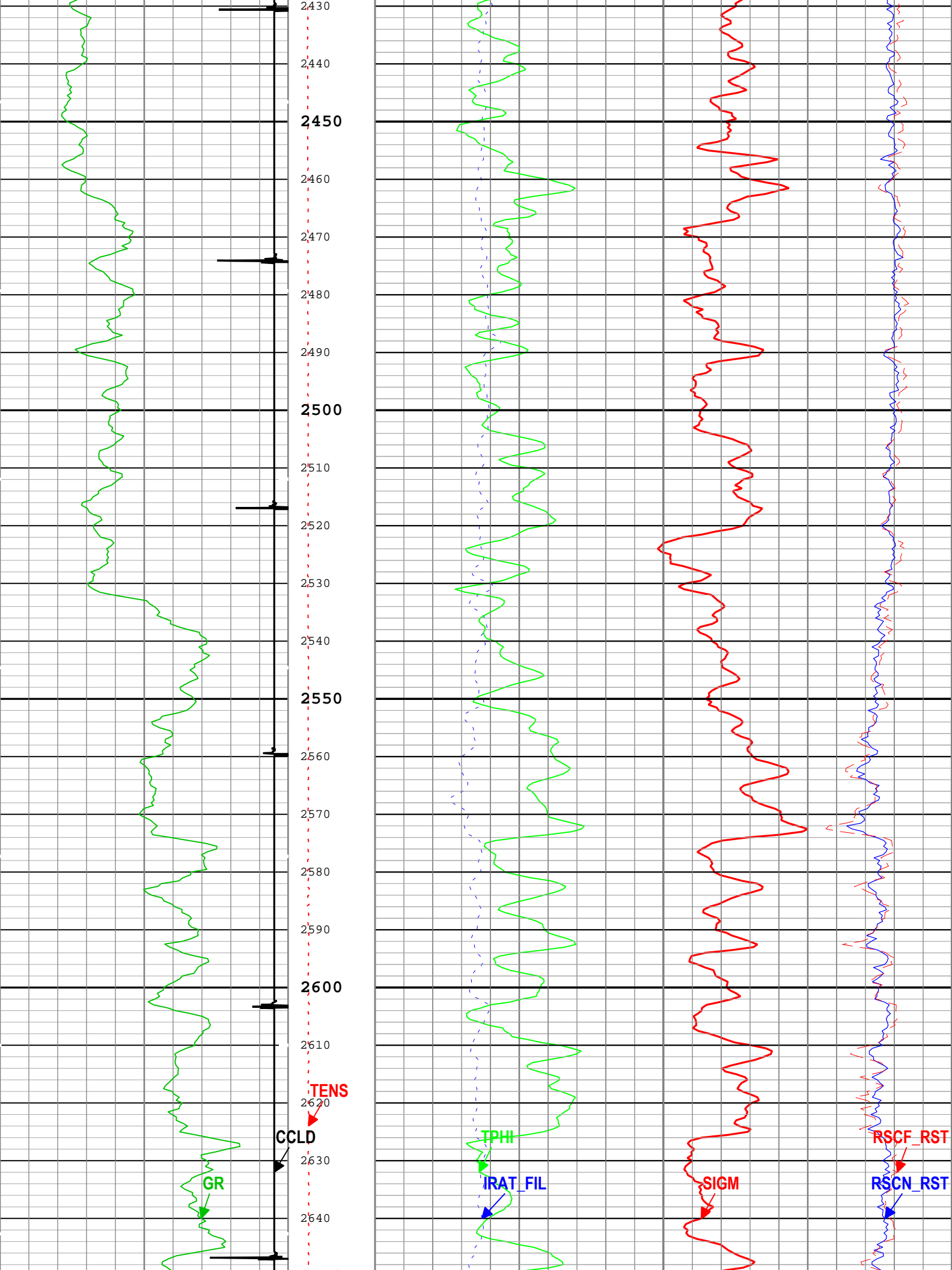
All depths are referenced to toolstring zero

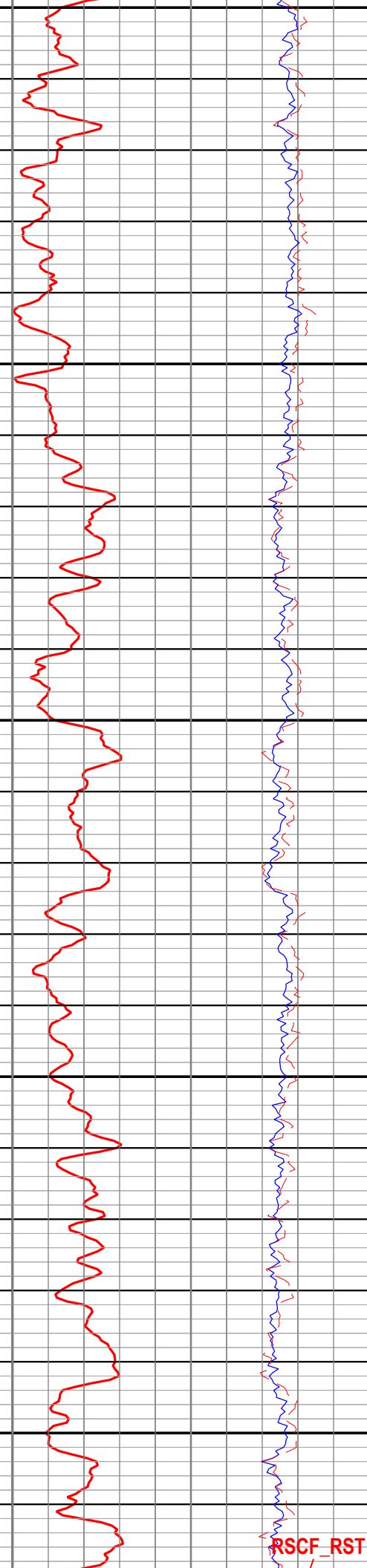
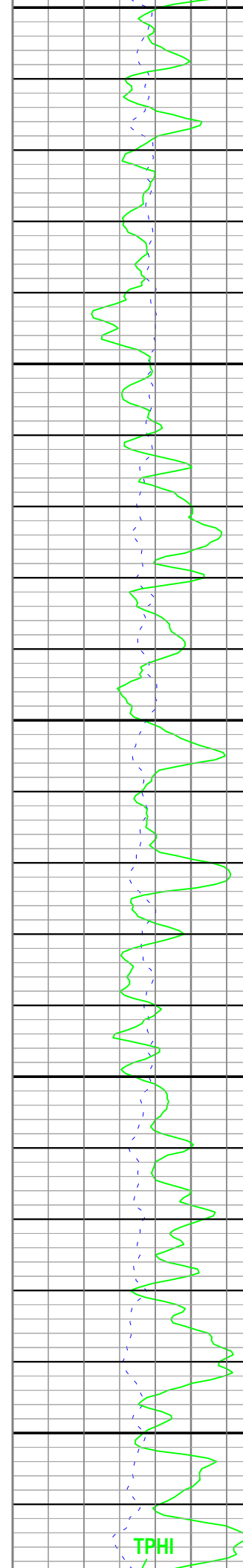
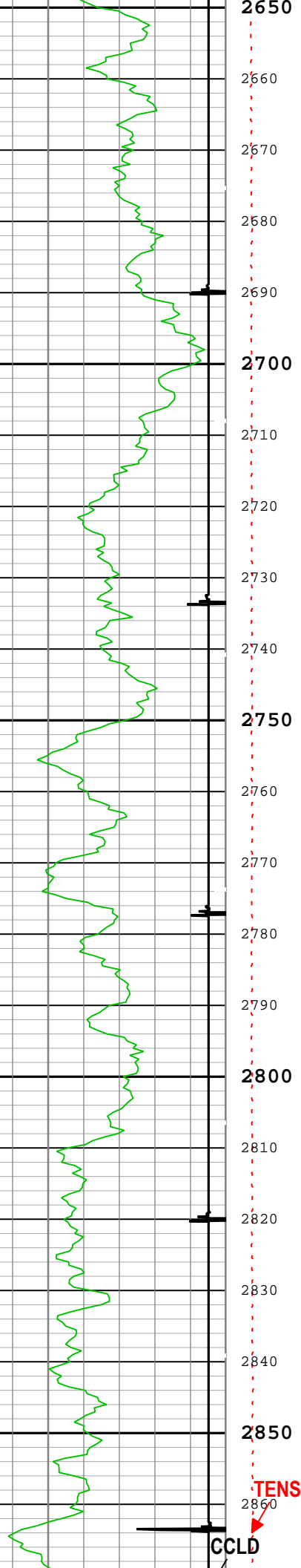
Description: RST SIGMA Answer Format: Log (RST SIGMA Answer) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 23-Jul-2018 17:37:35

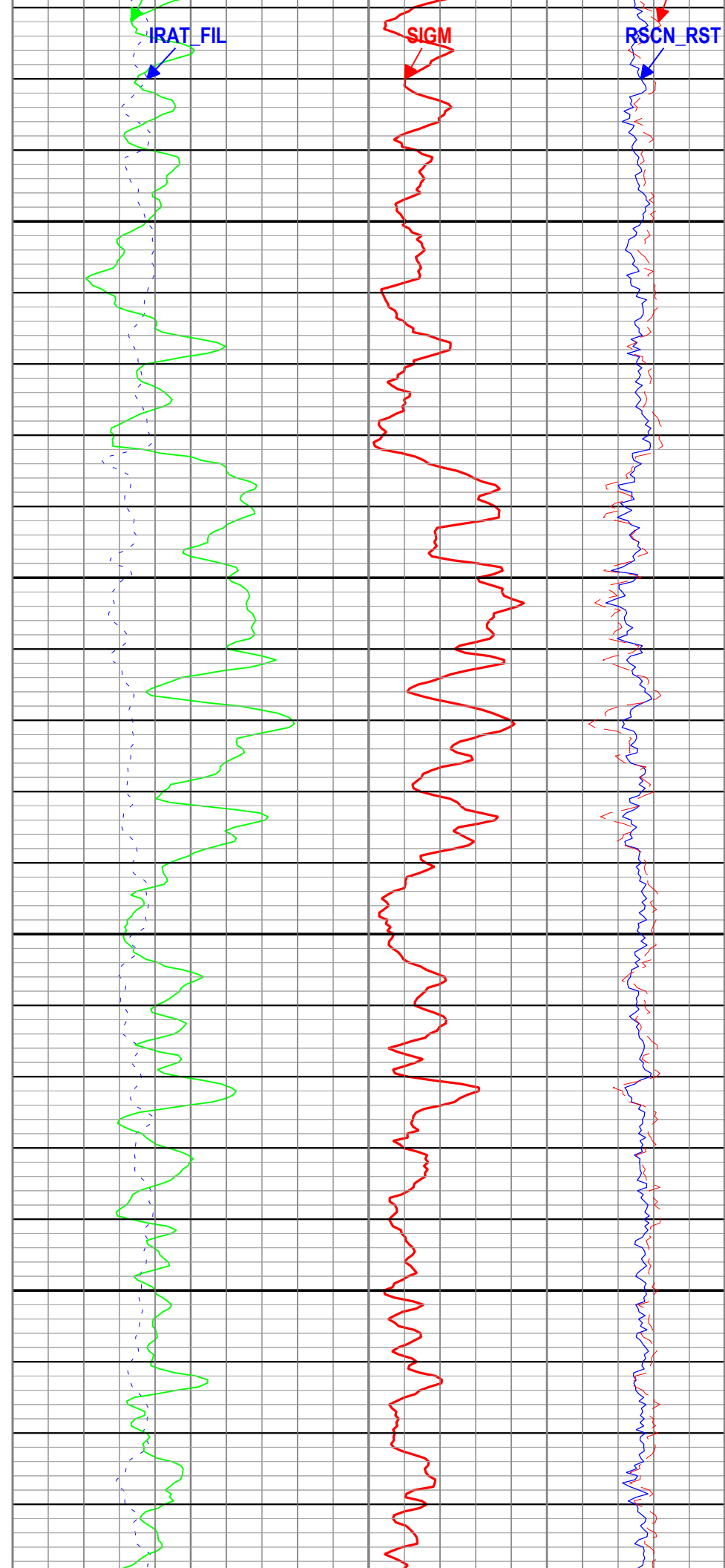
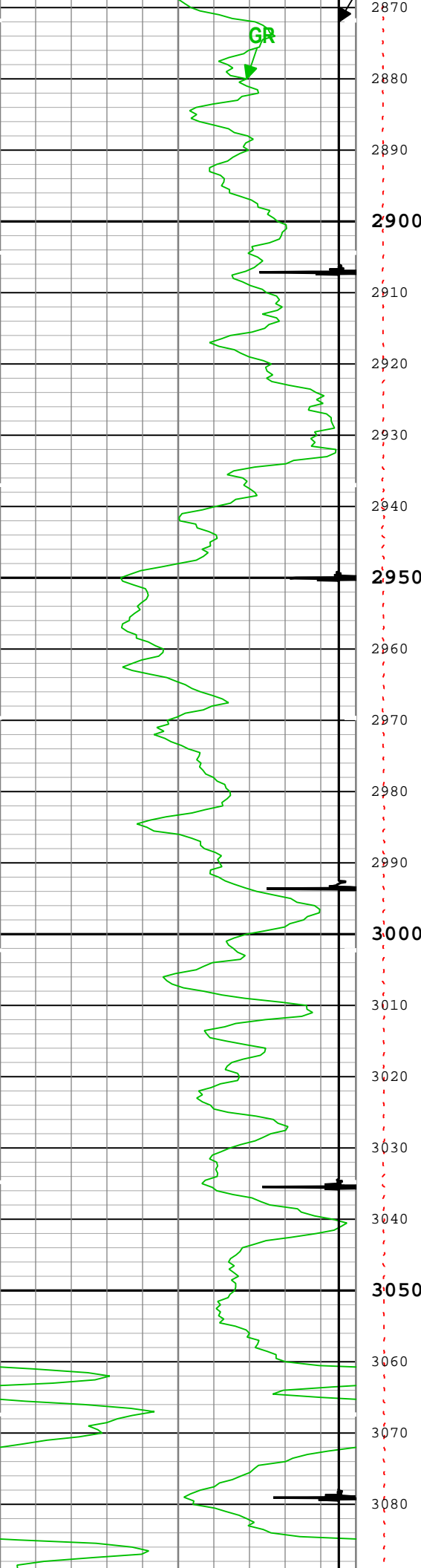
- |IHV - Integrated Hole Volume every 10.00 (ft3)
- |IHV - Integrated Hole Volume every 100.00 (ft3)
- |ICV - Integrated Cement Volume every 10.00 (ft3)
- |TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)
- |ICV - Integrated Cement Volume every 100.00 (ft3)

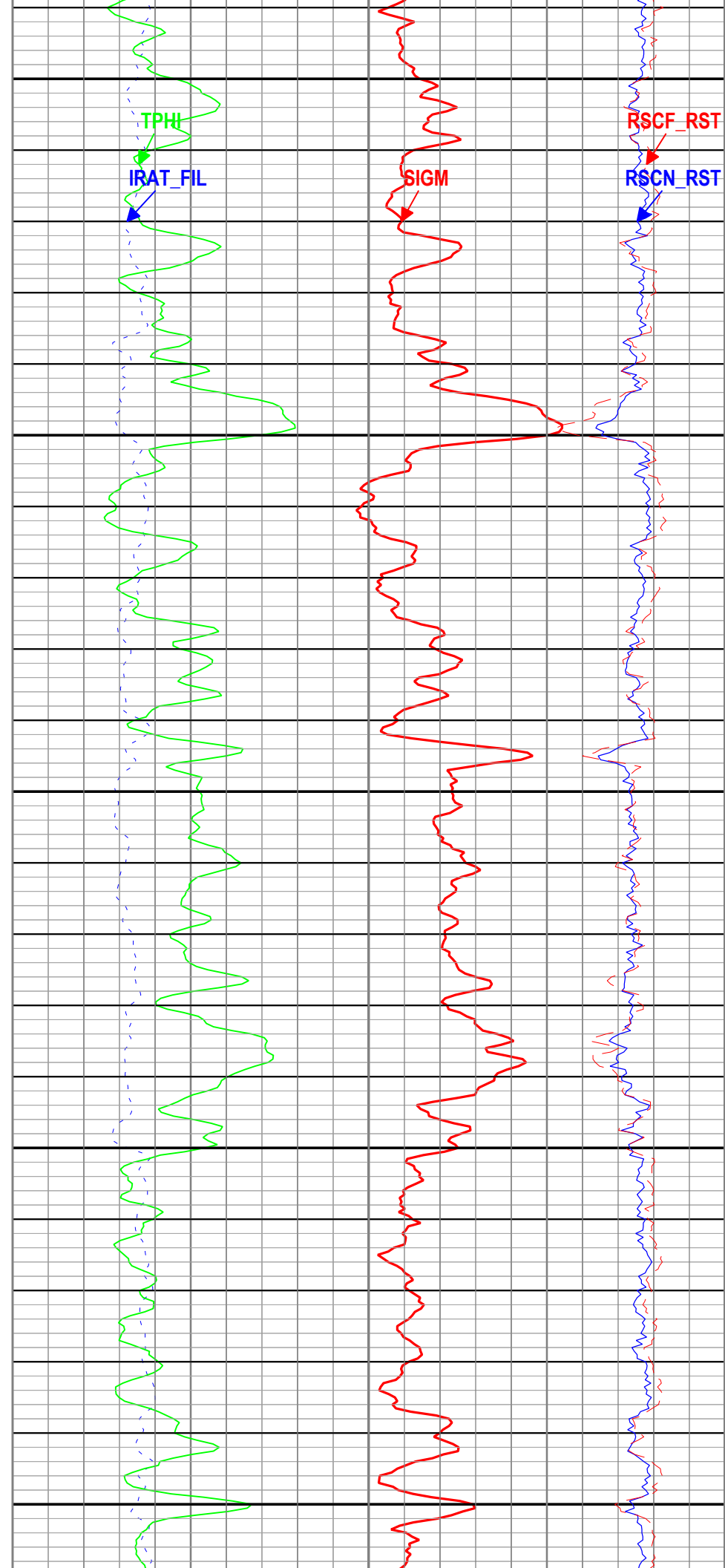
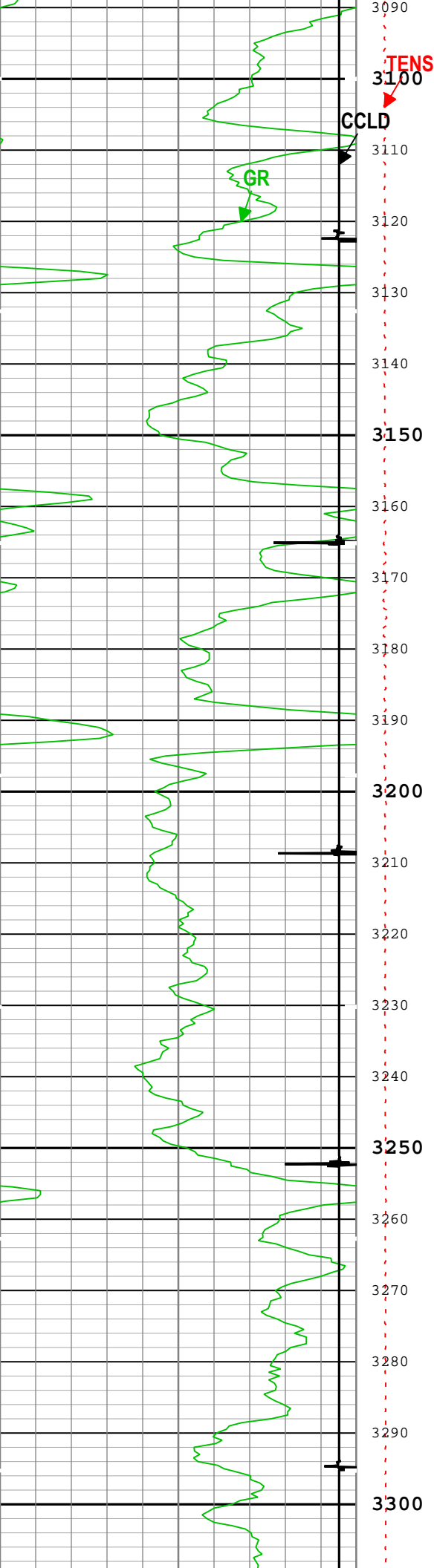
TIME_1900 - Time Marked every 60.00 (s)

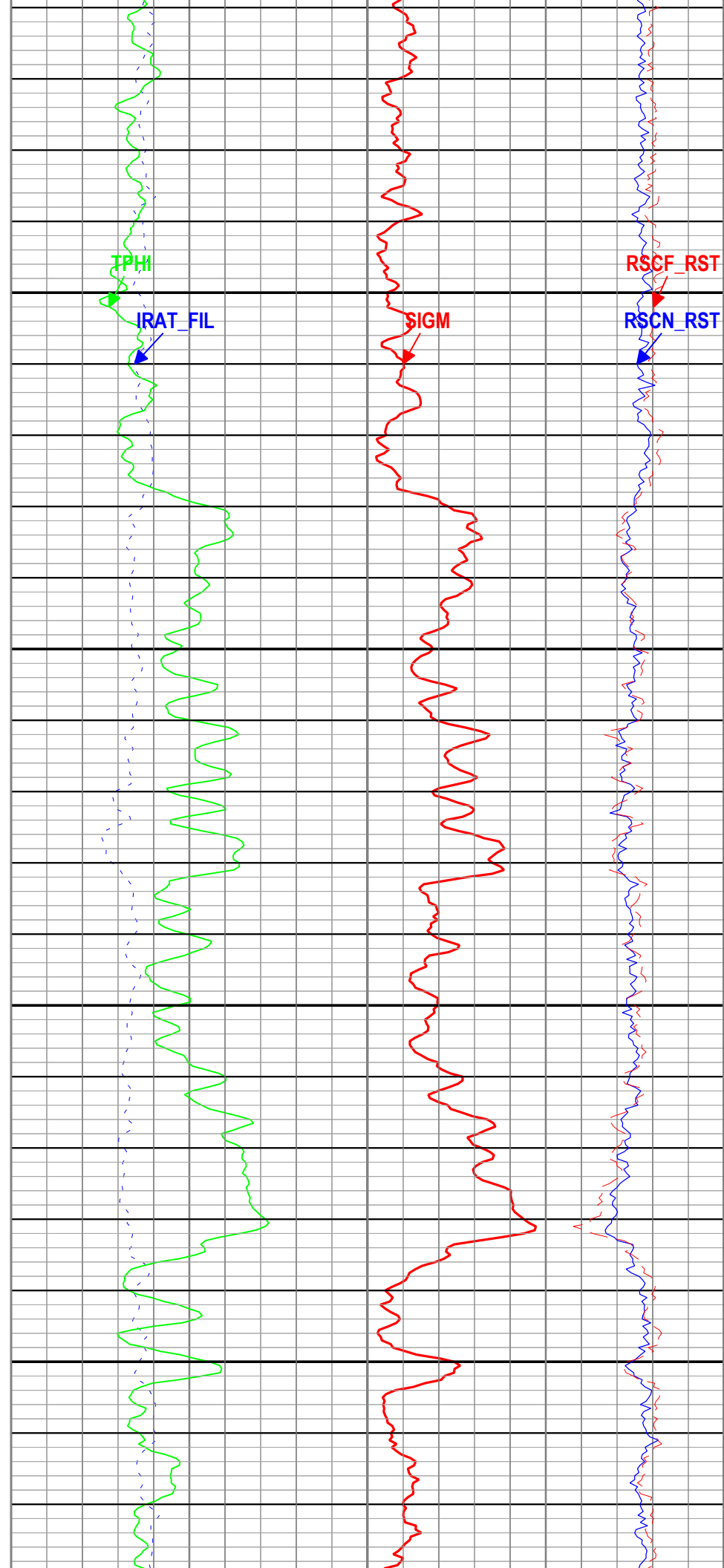
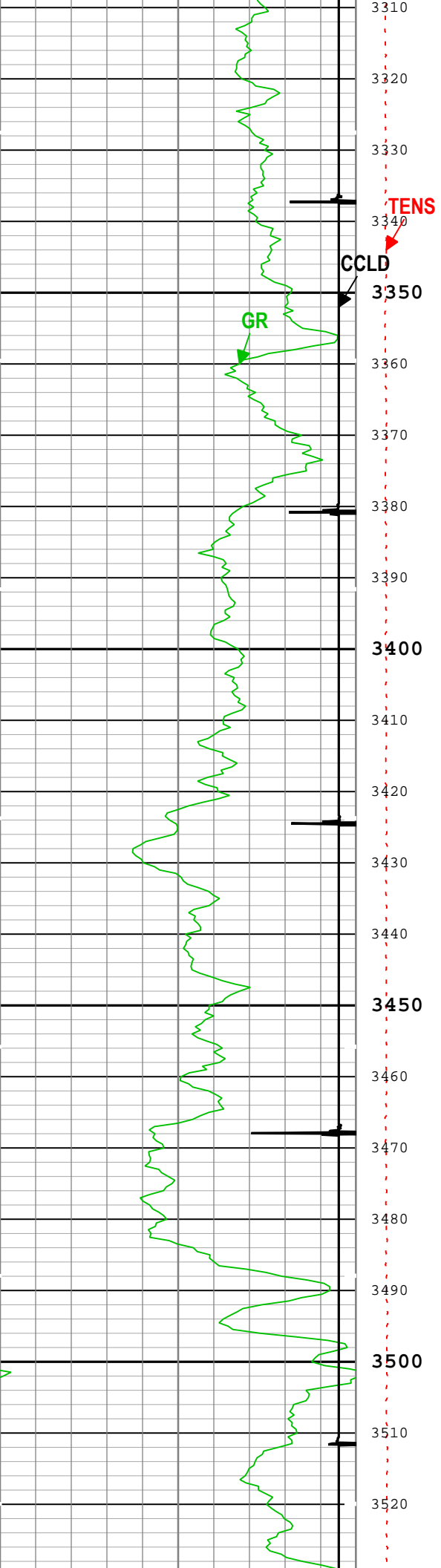


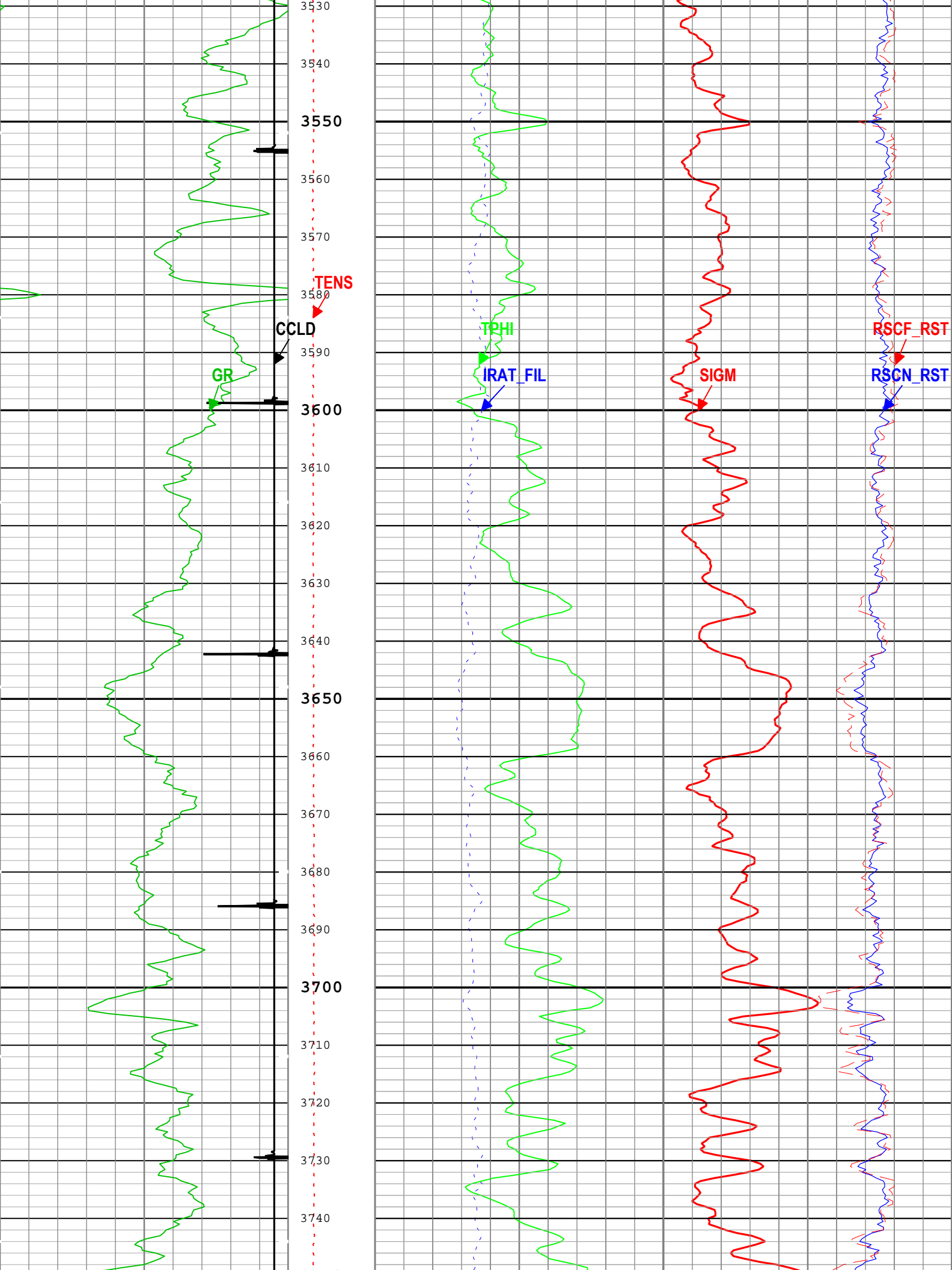


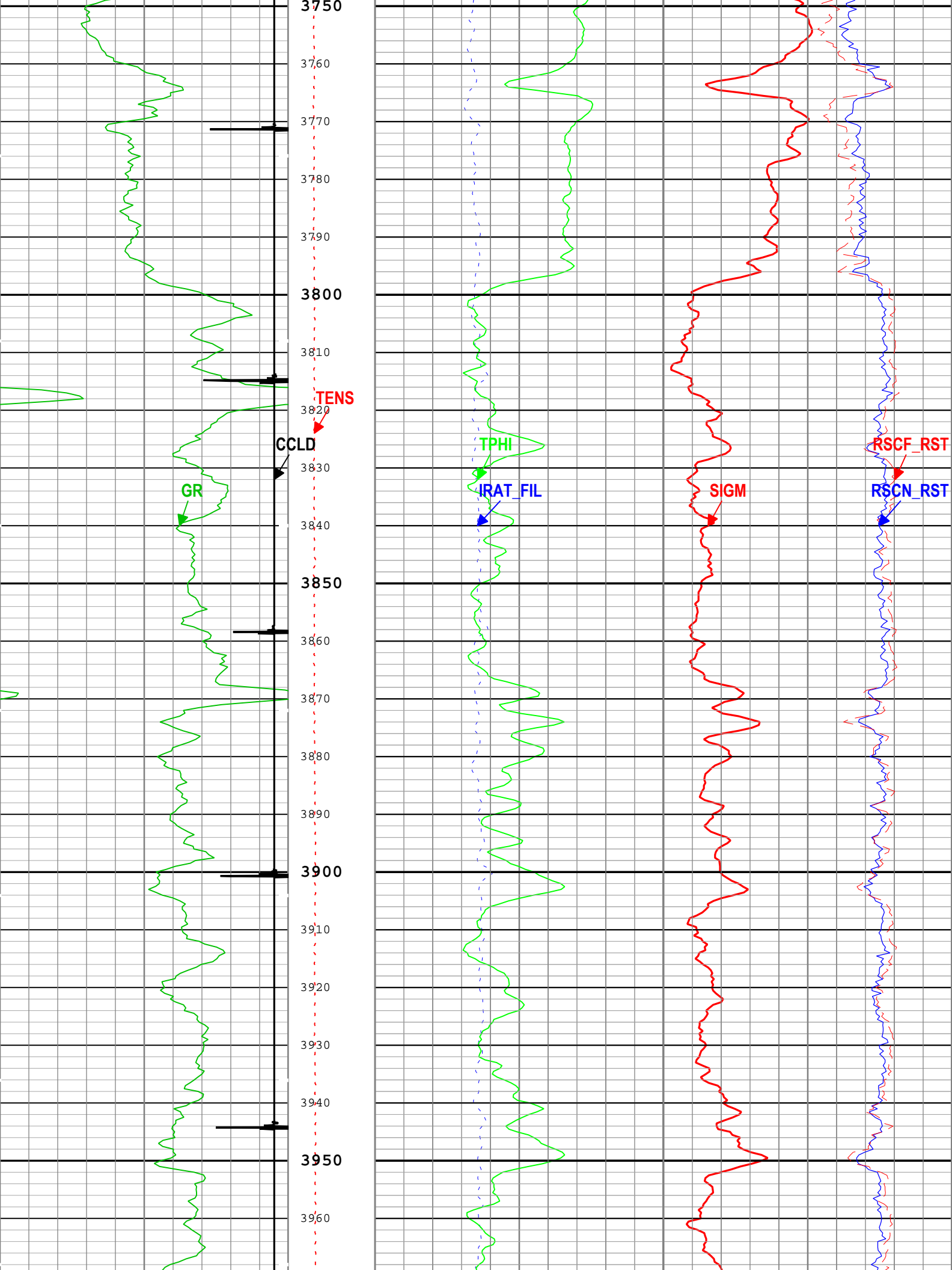


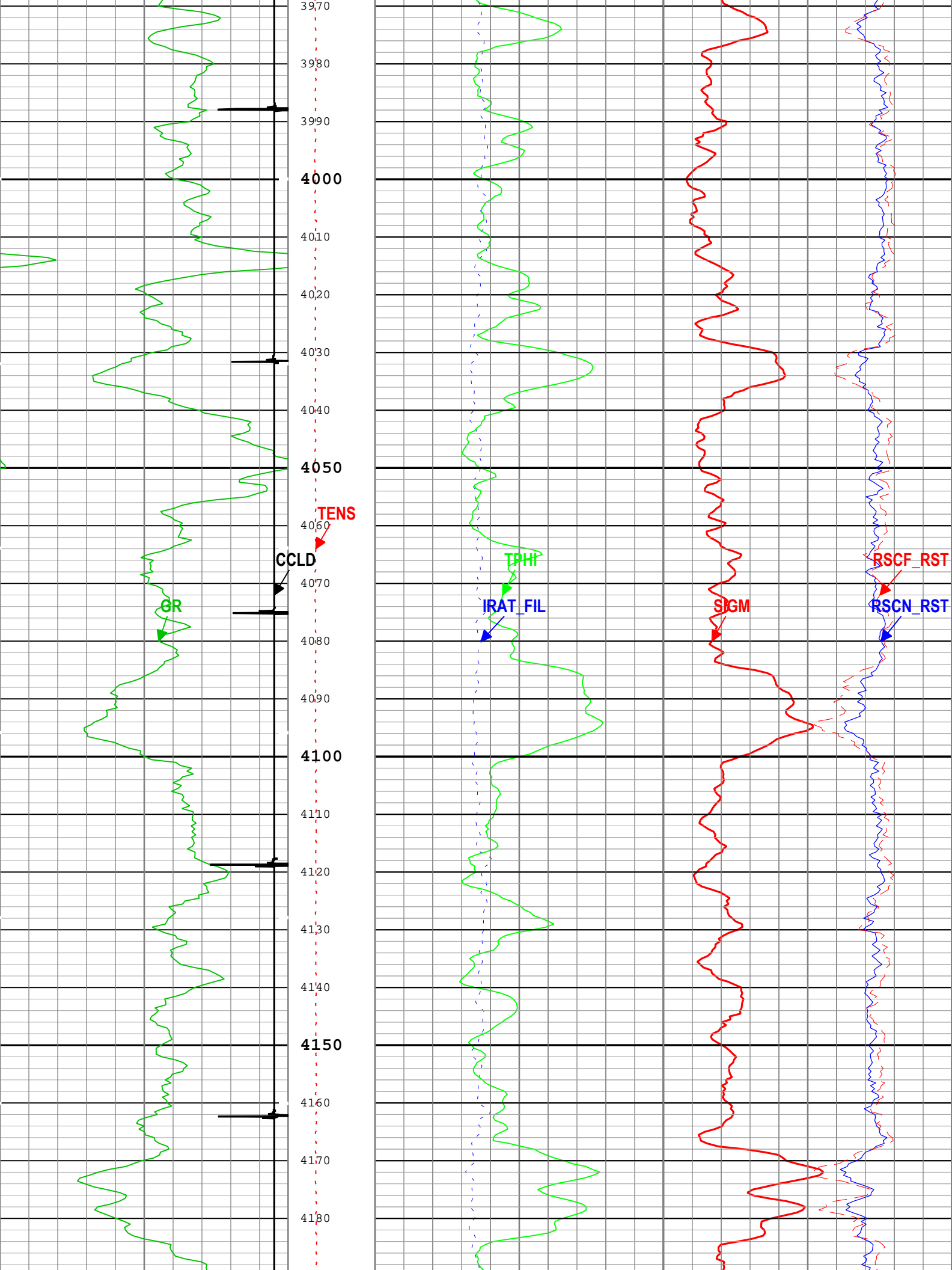


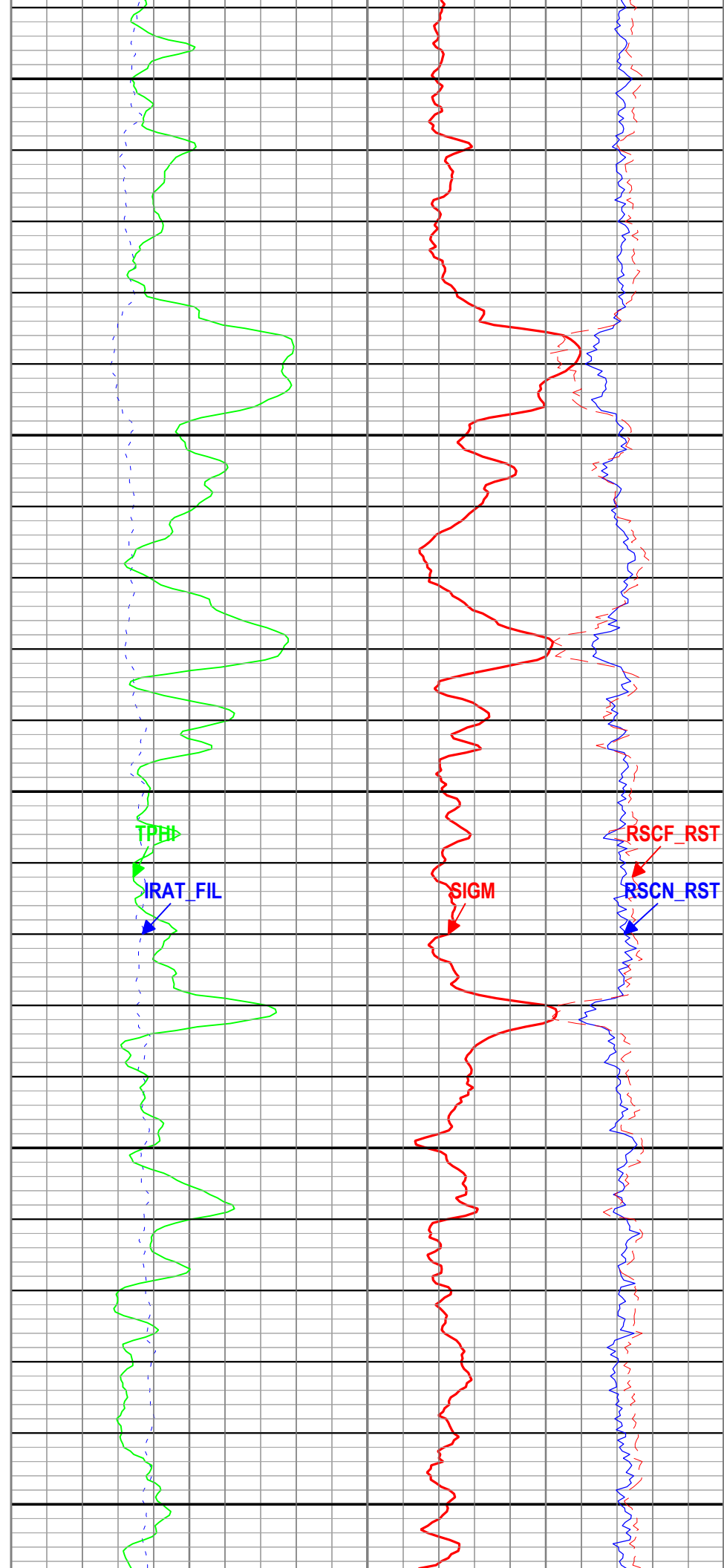
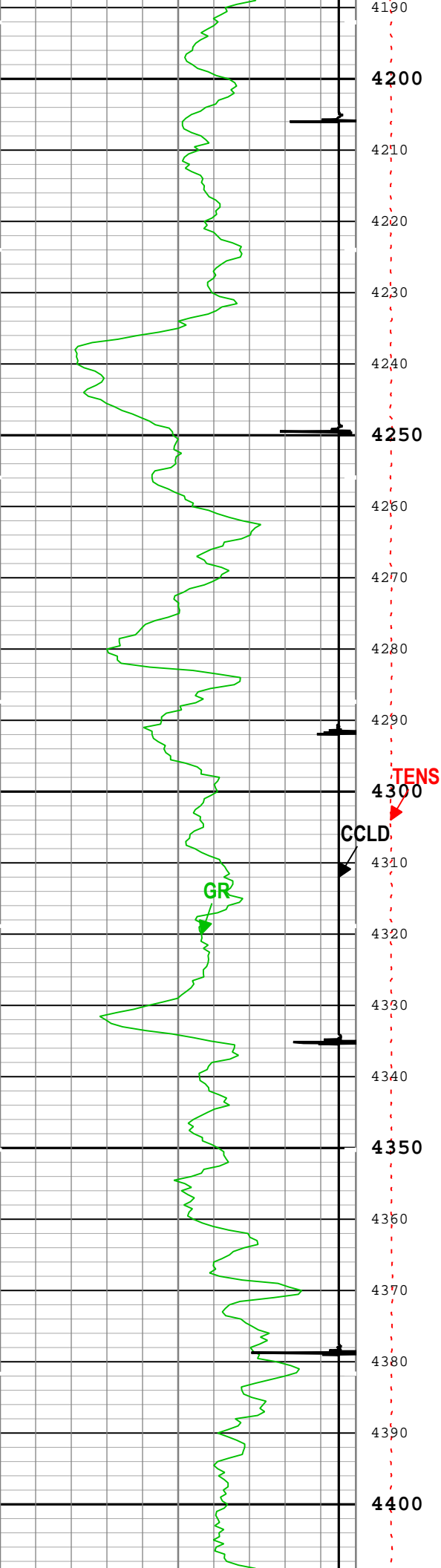


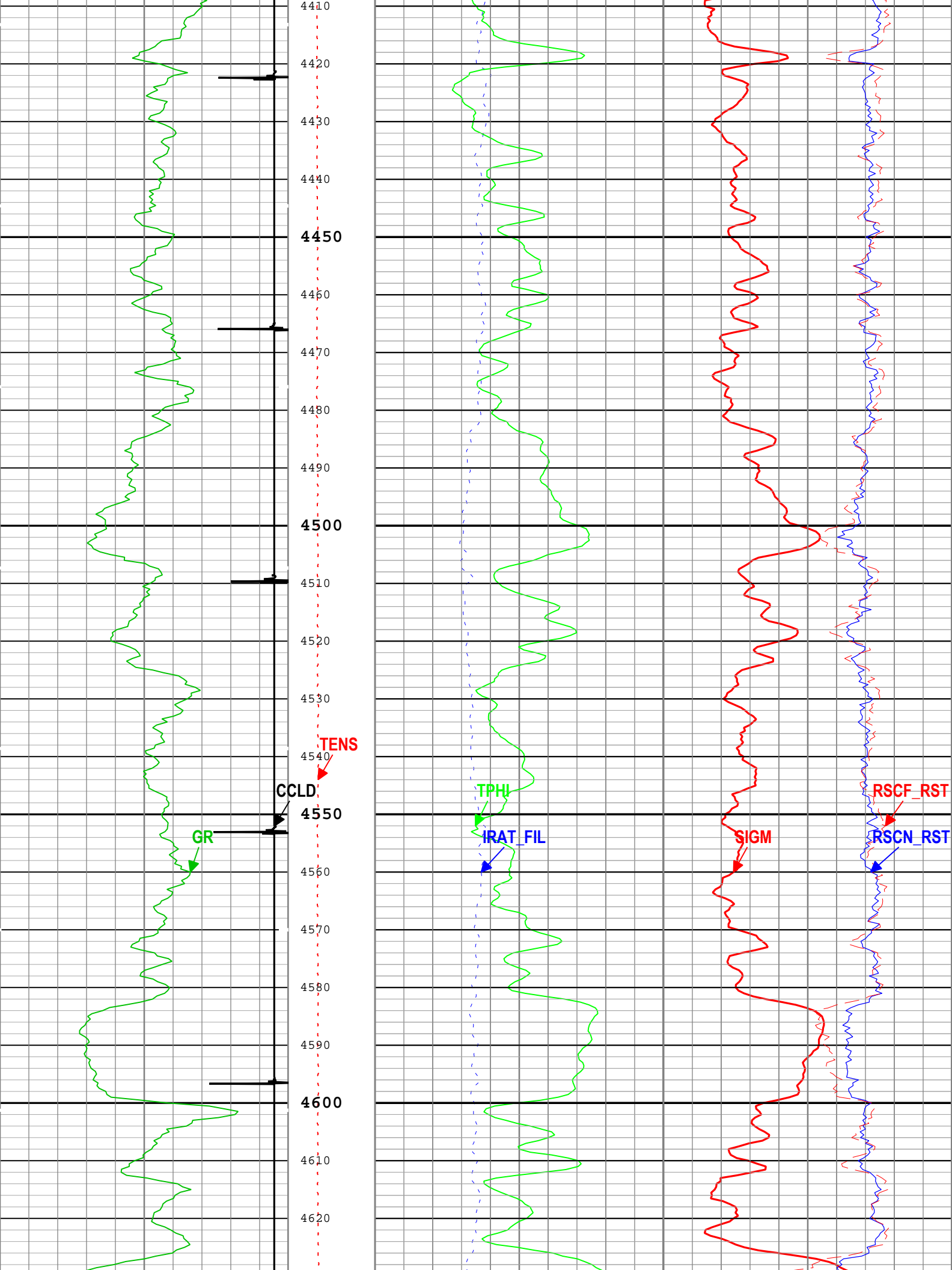


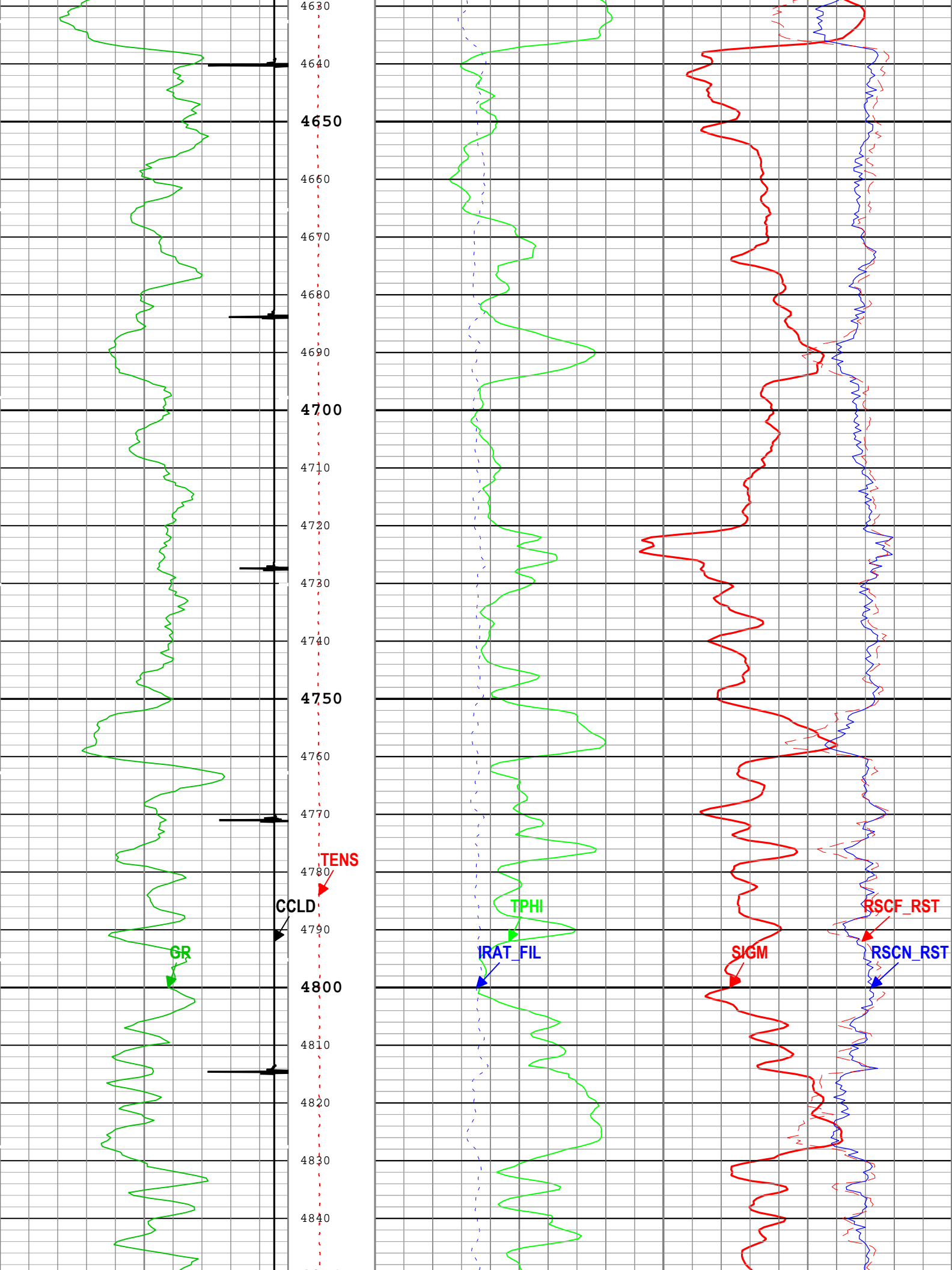


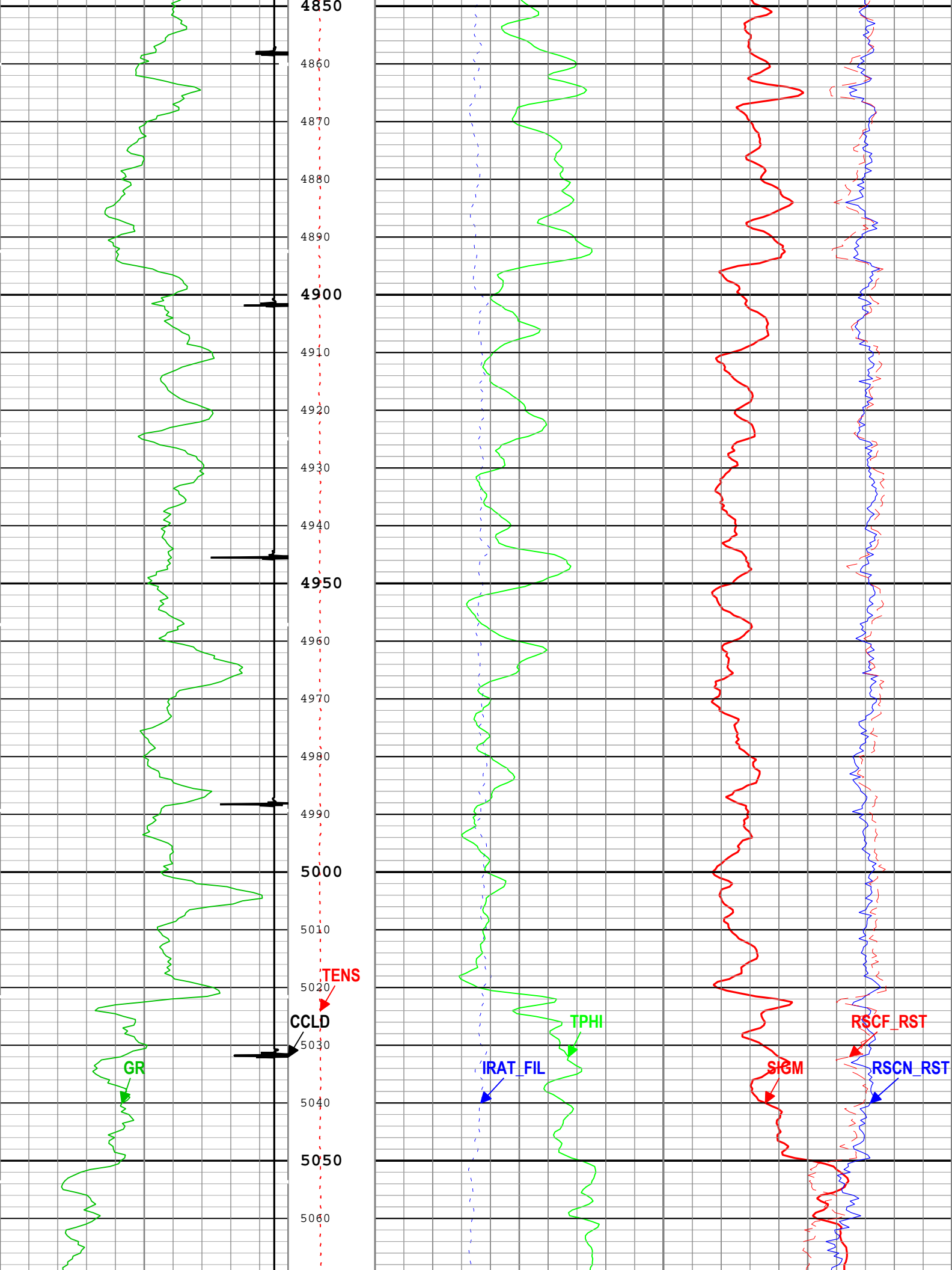


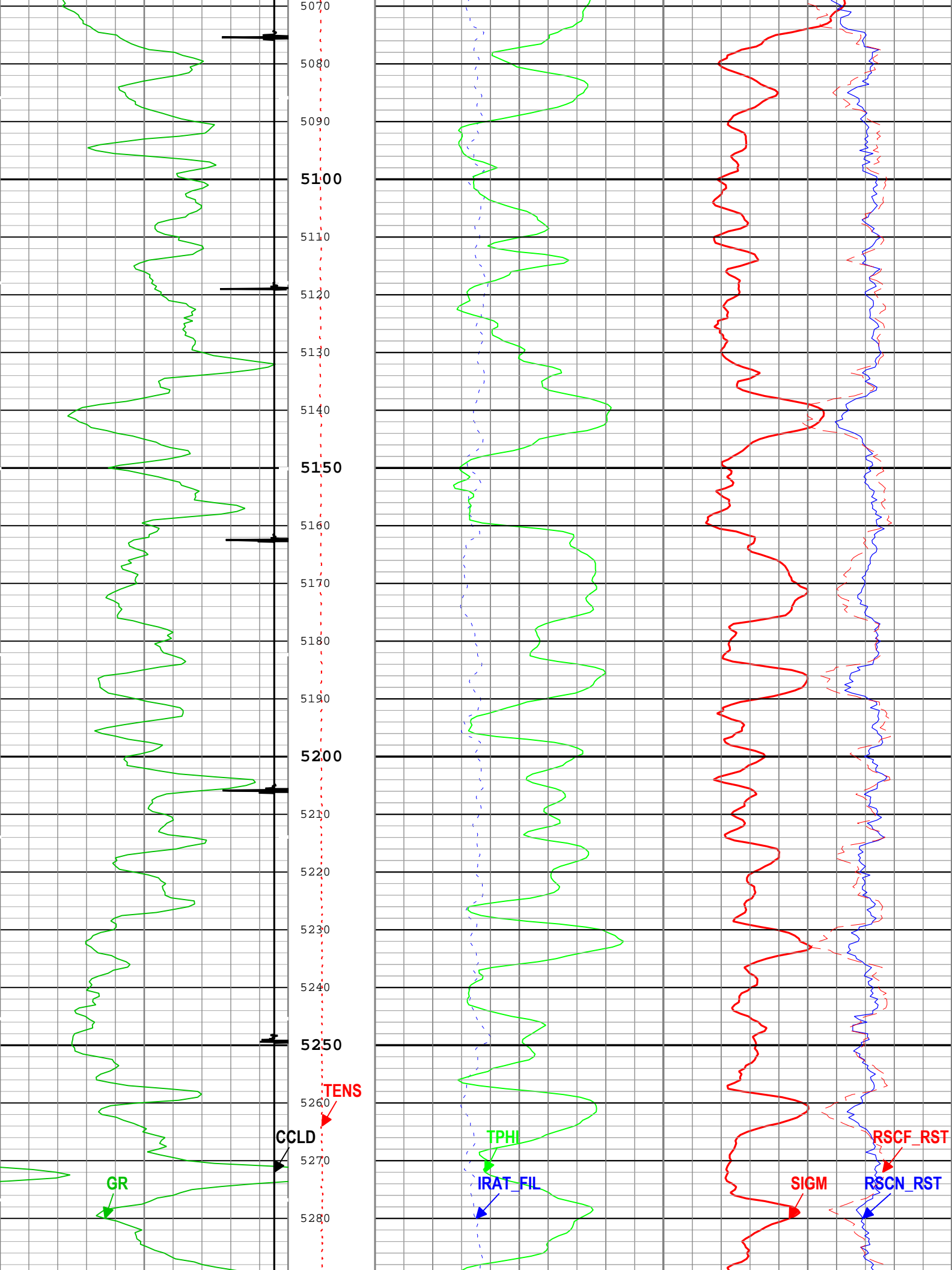


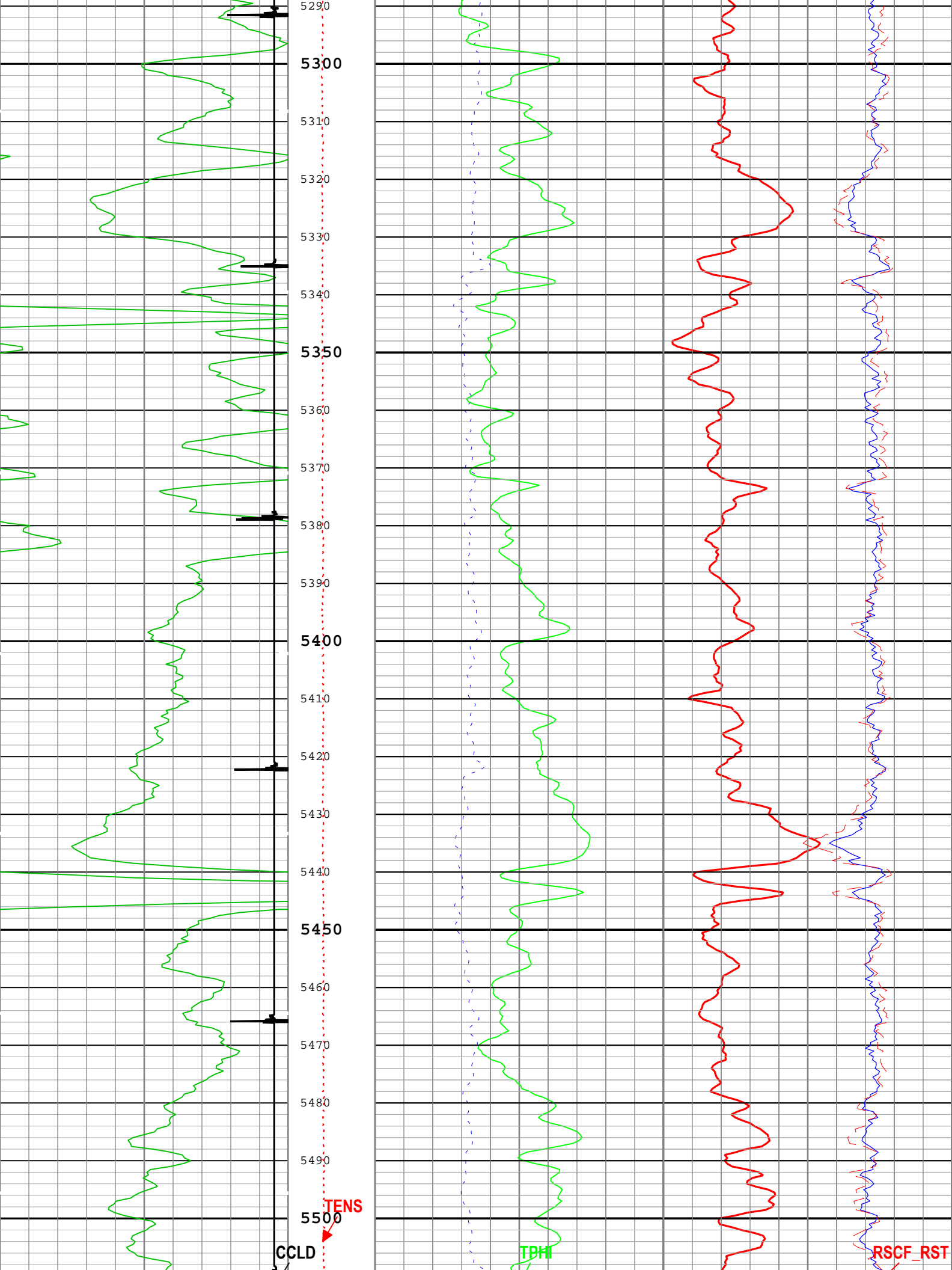


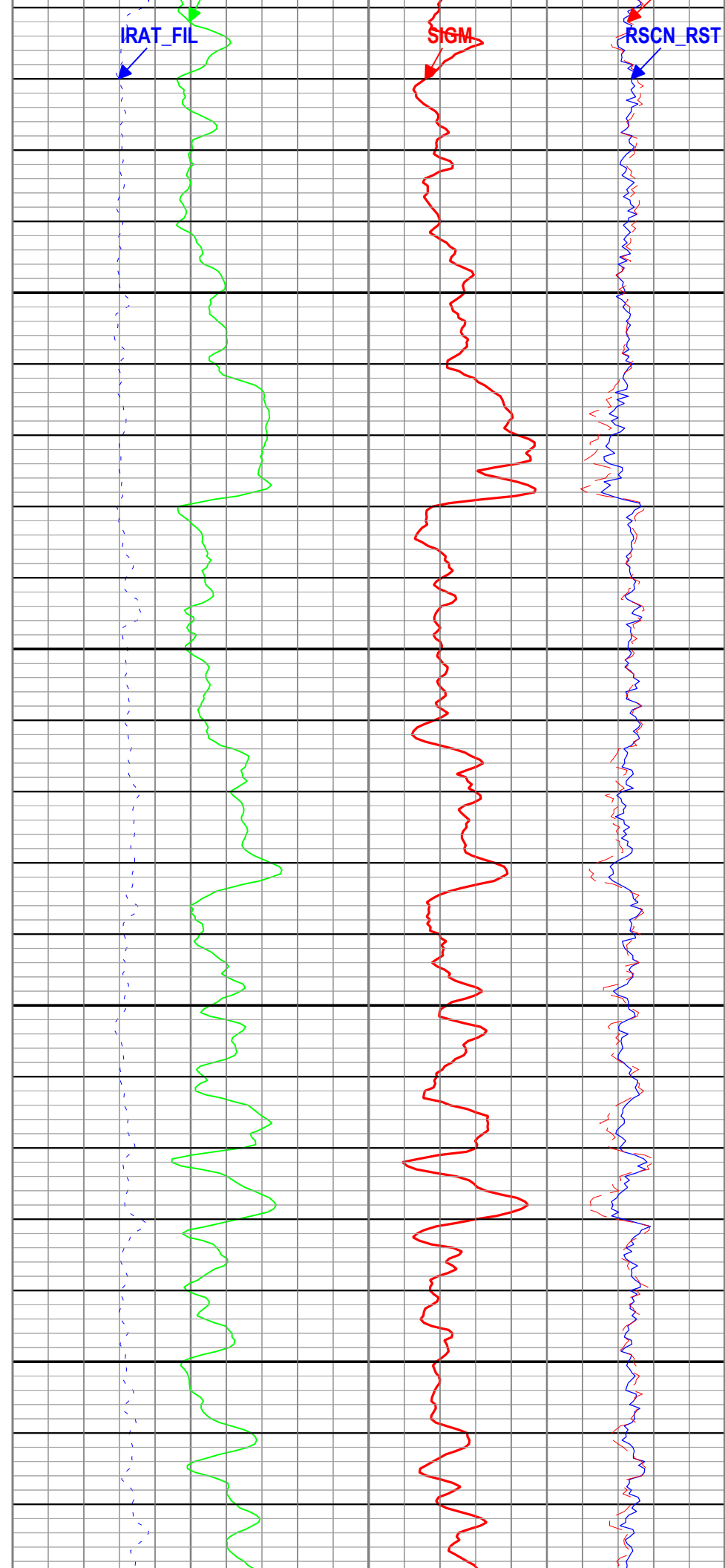
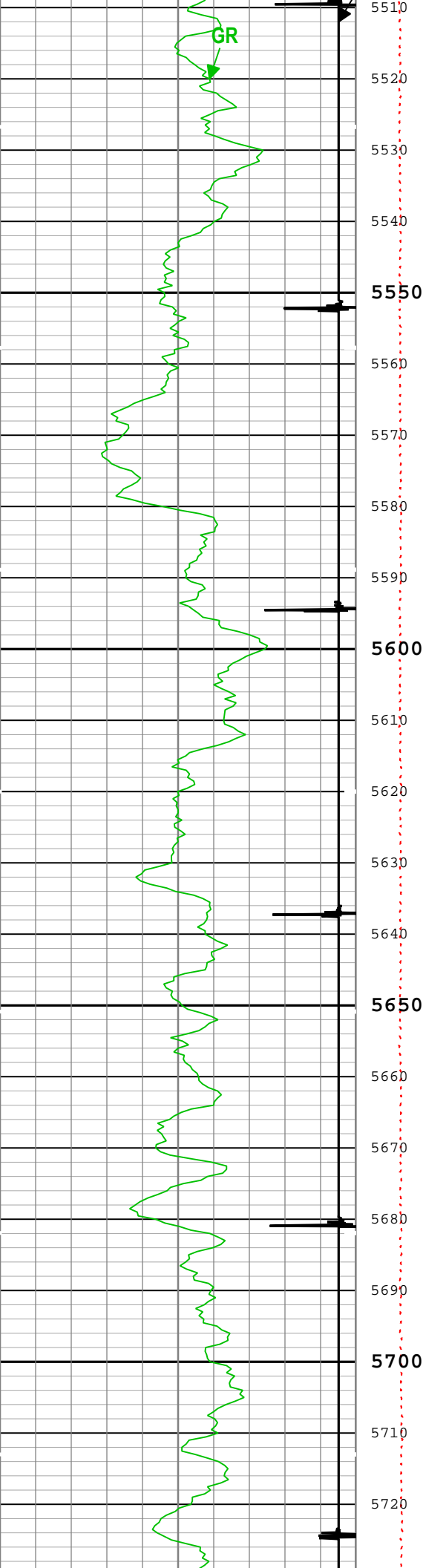


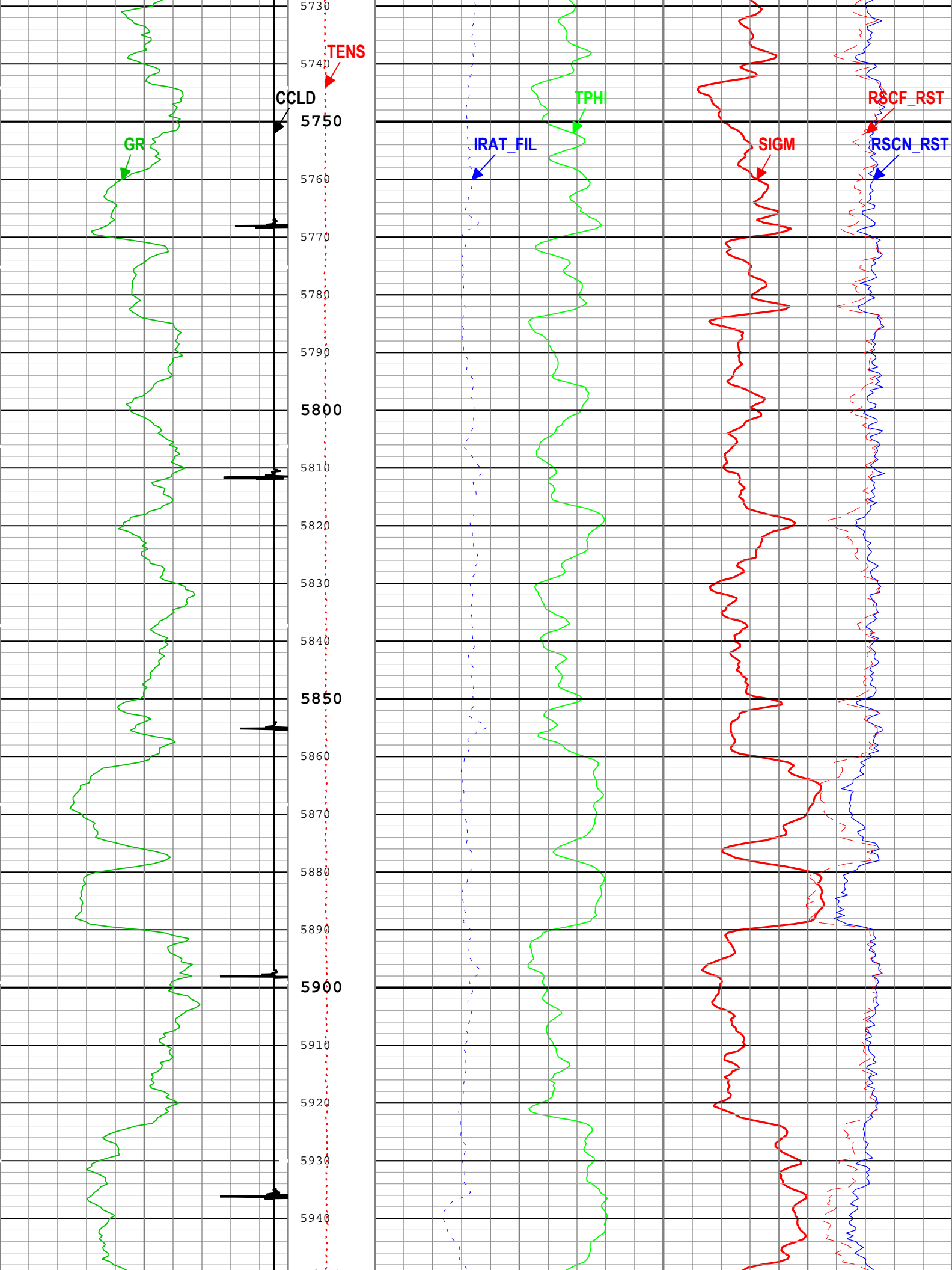


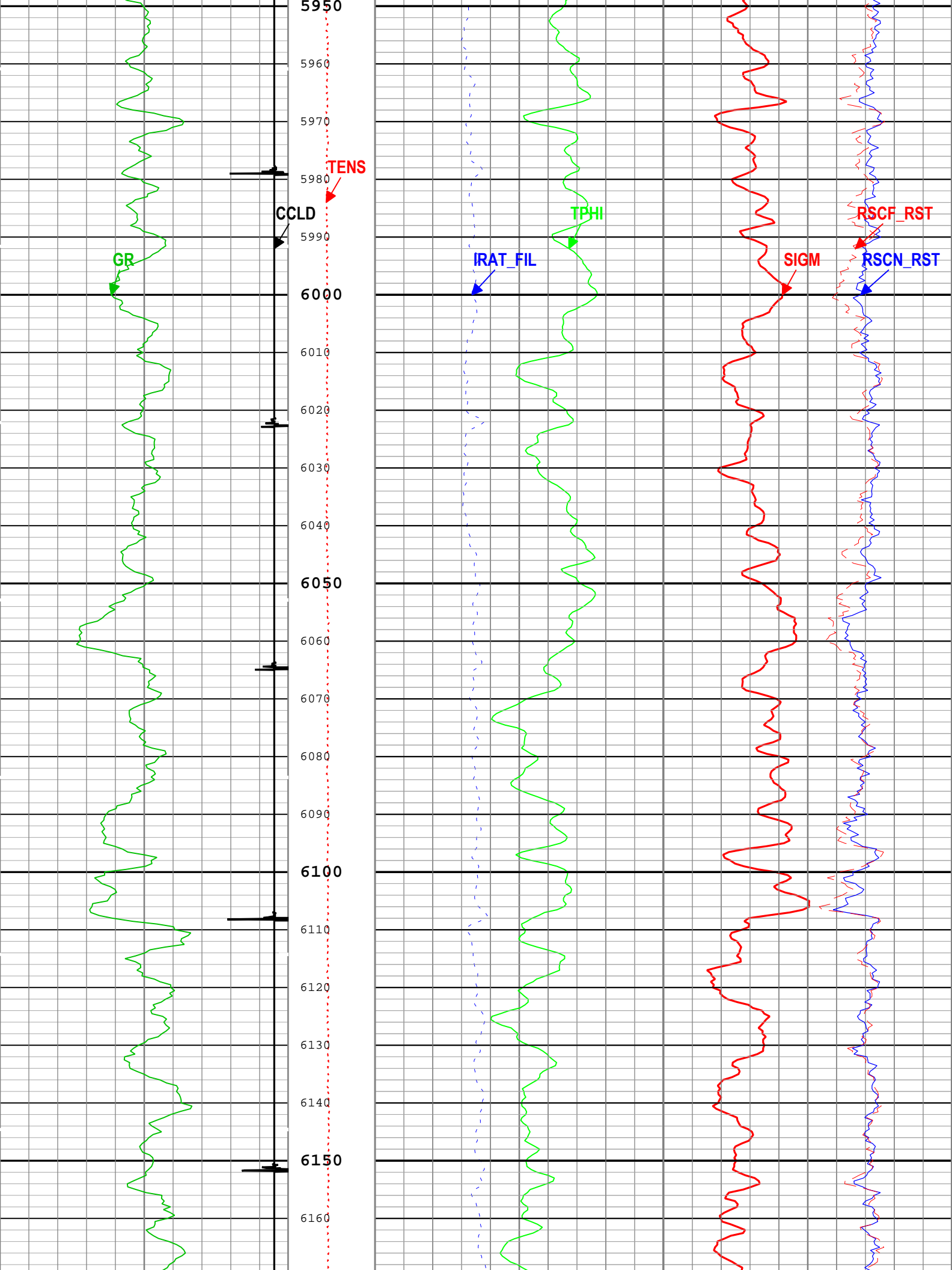


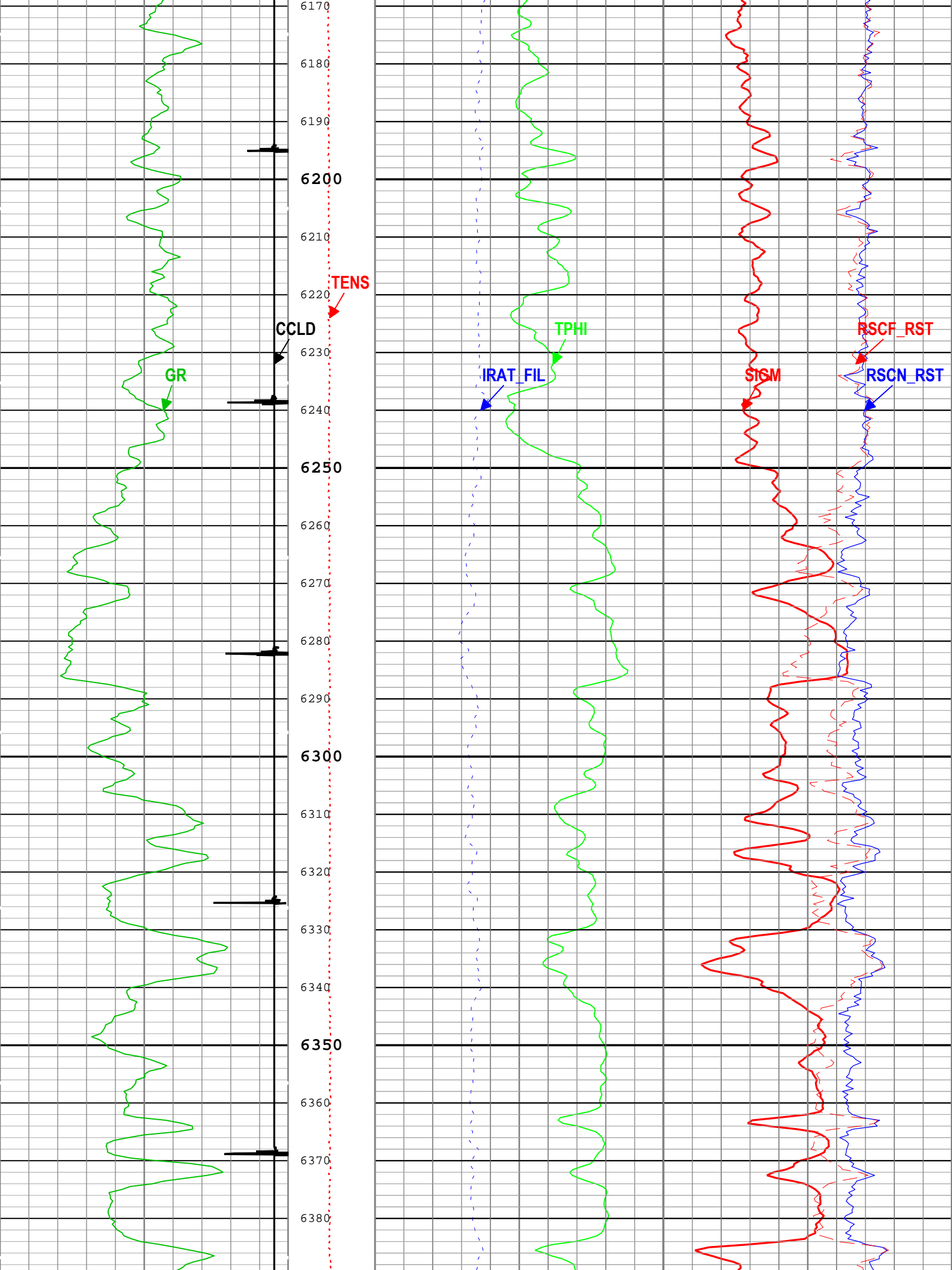


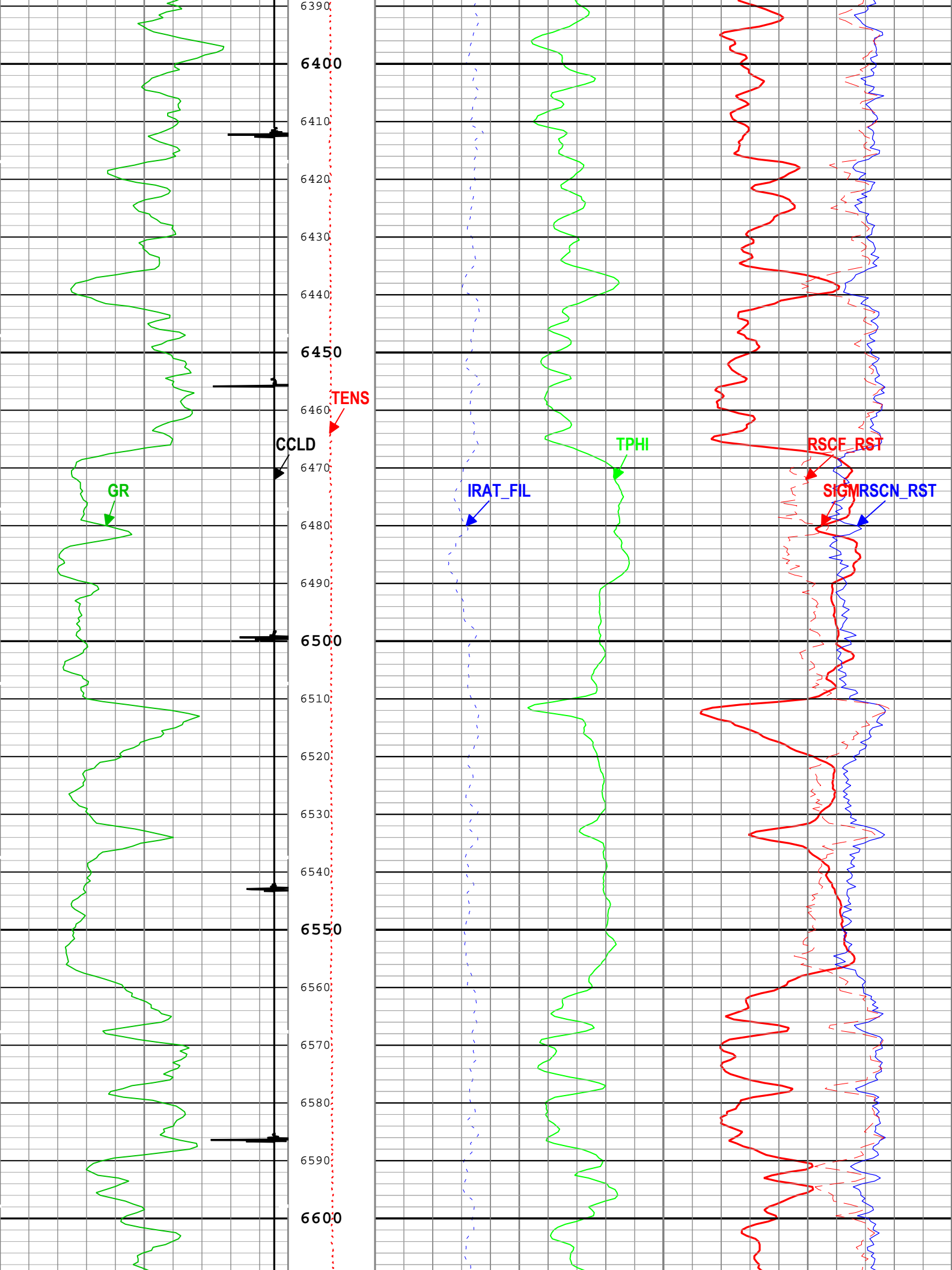


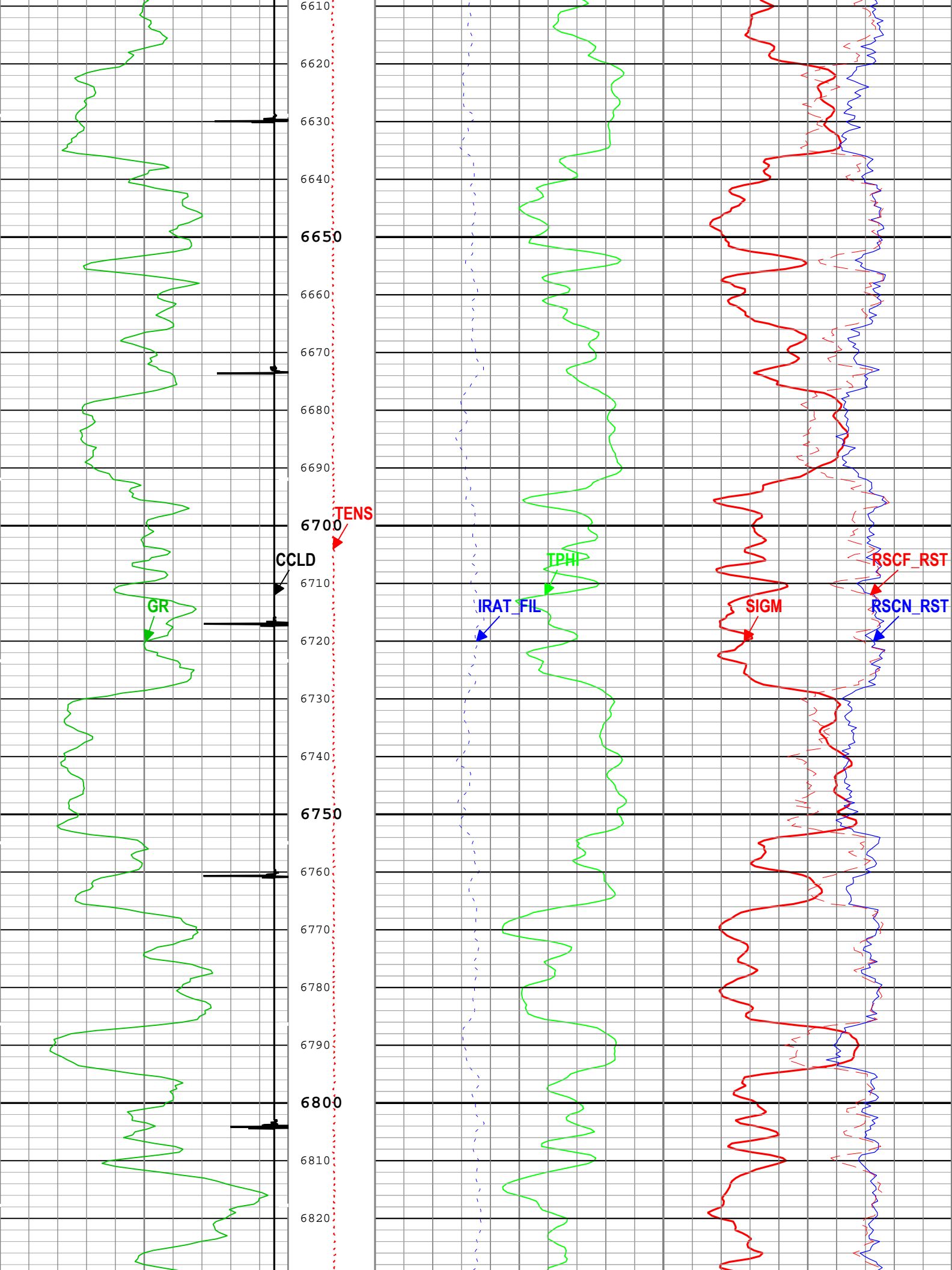


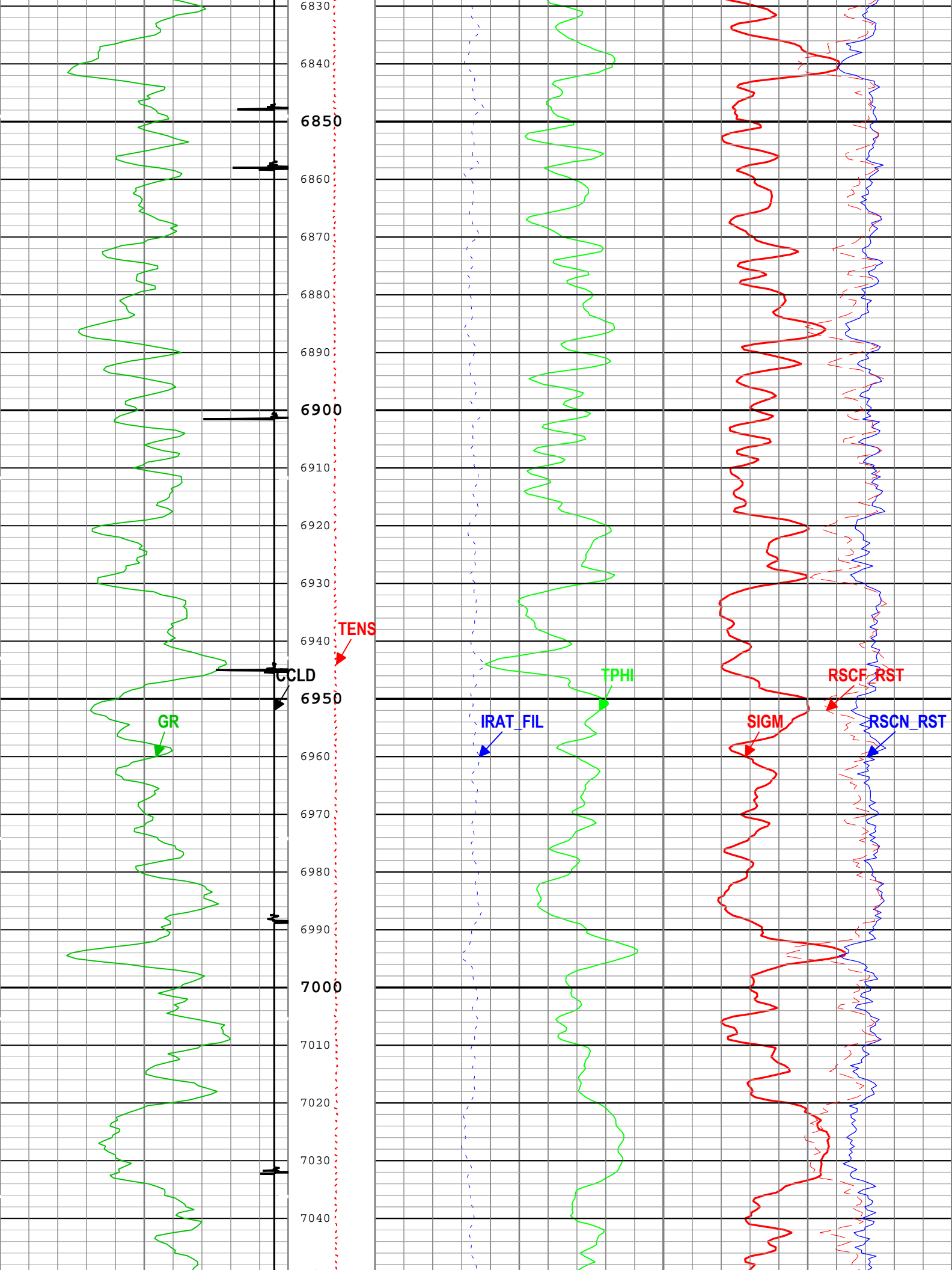


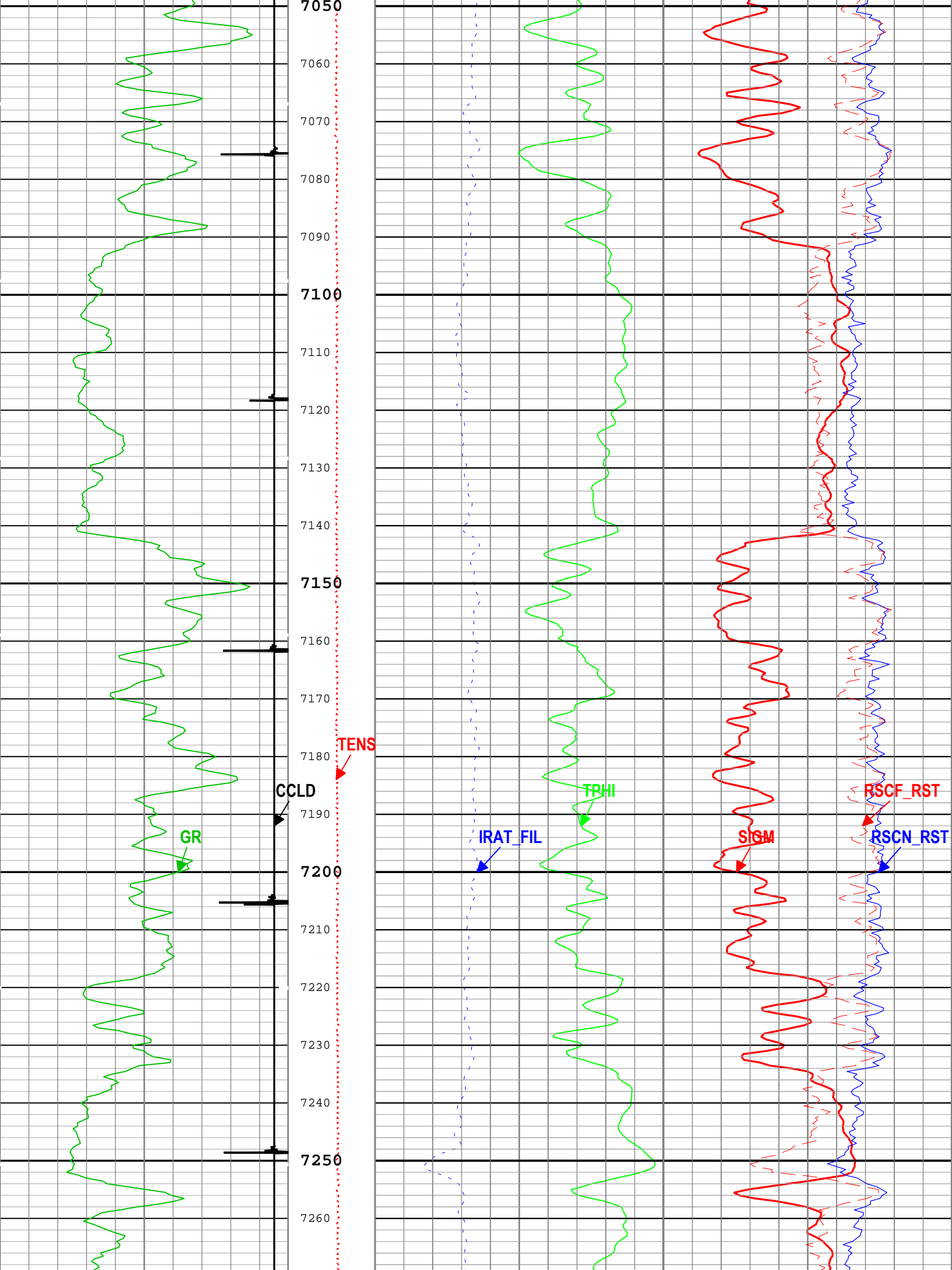


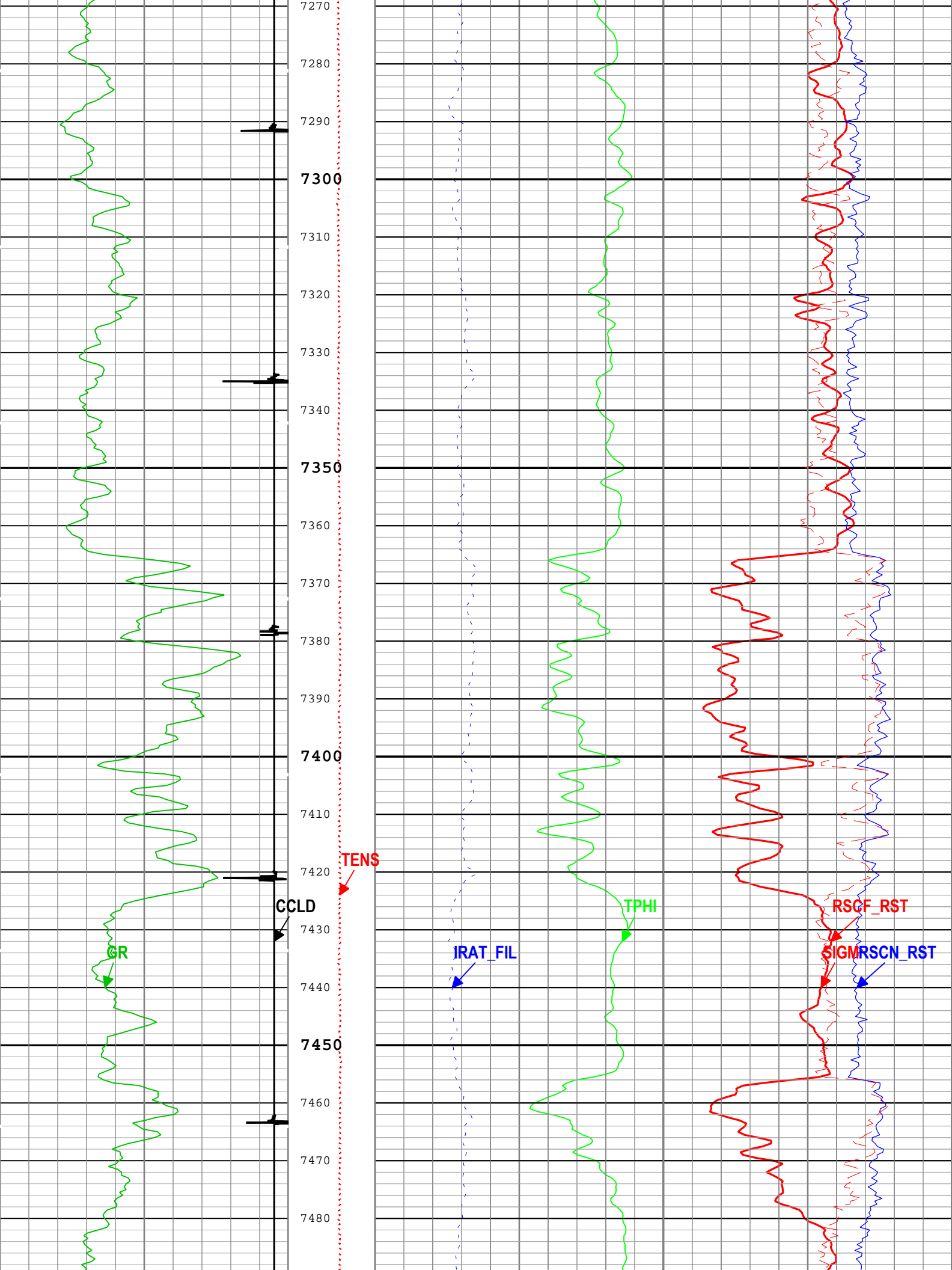


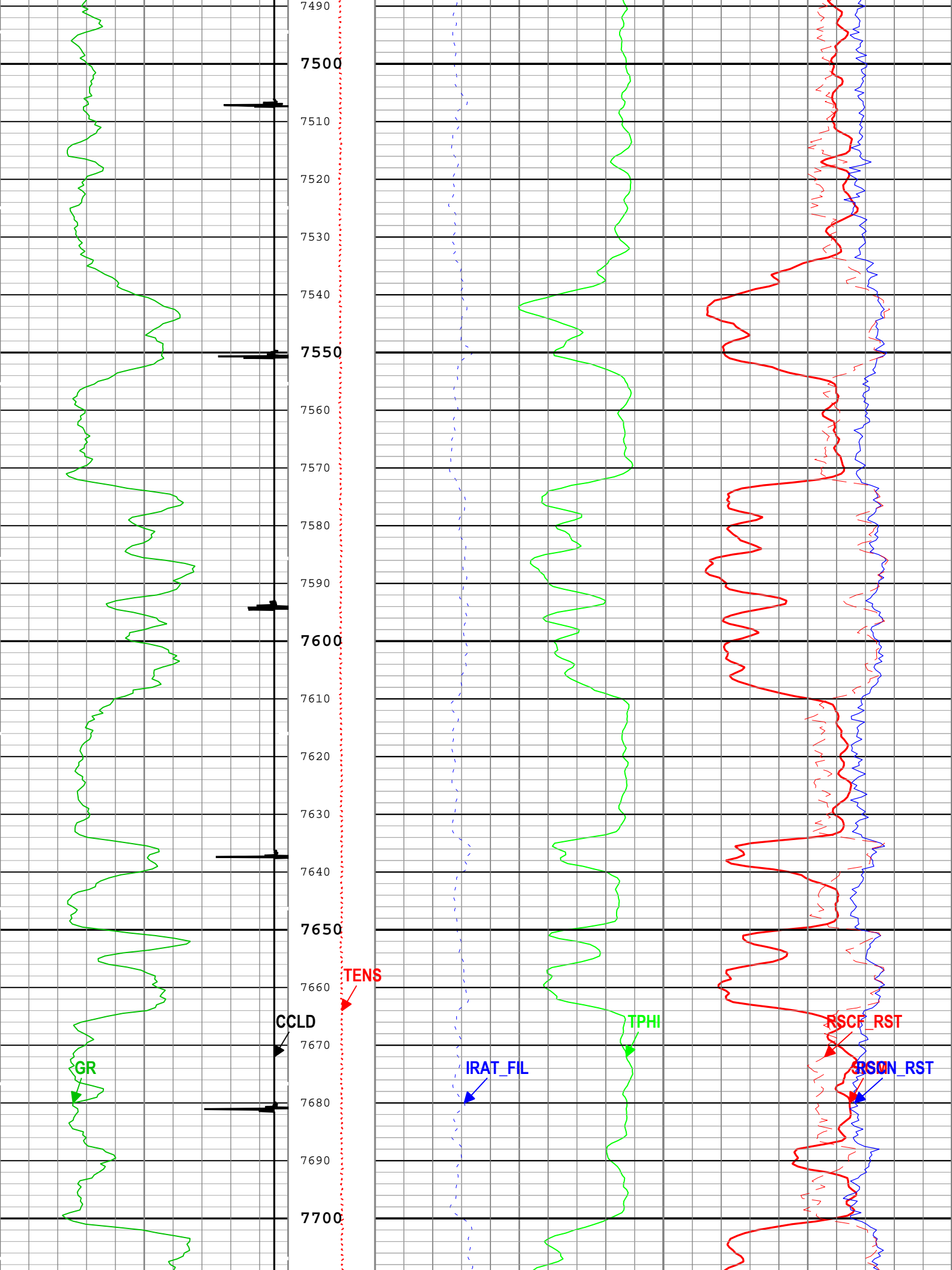


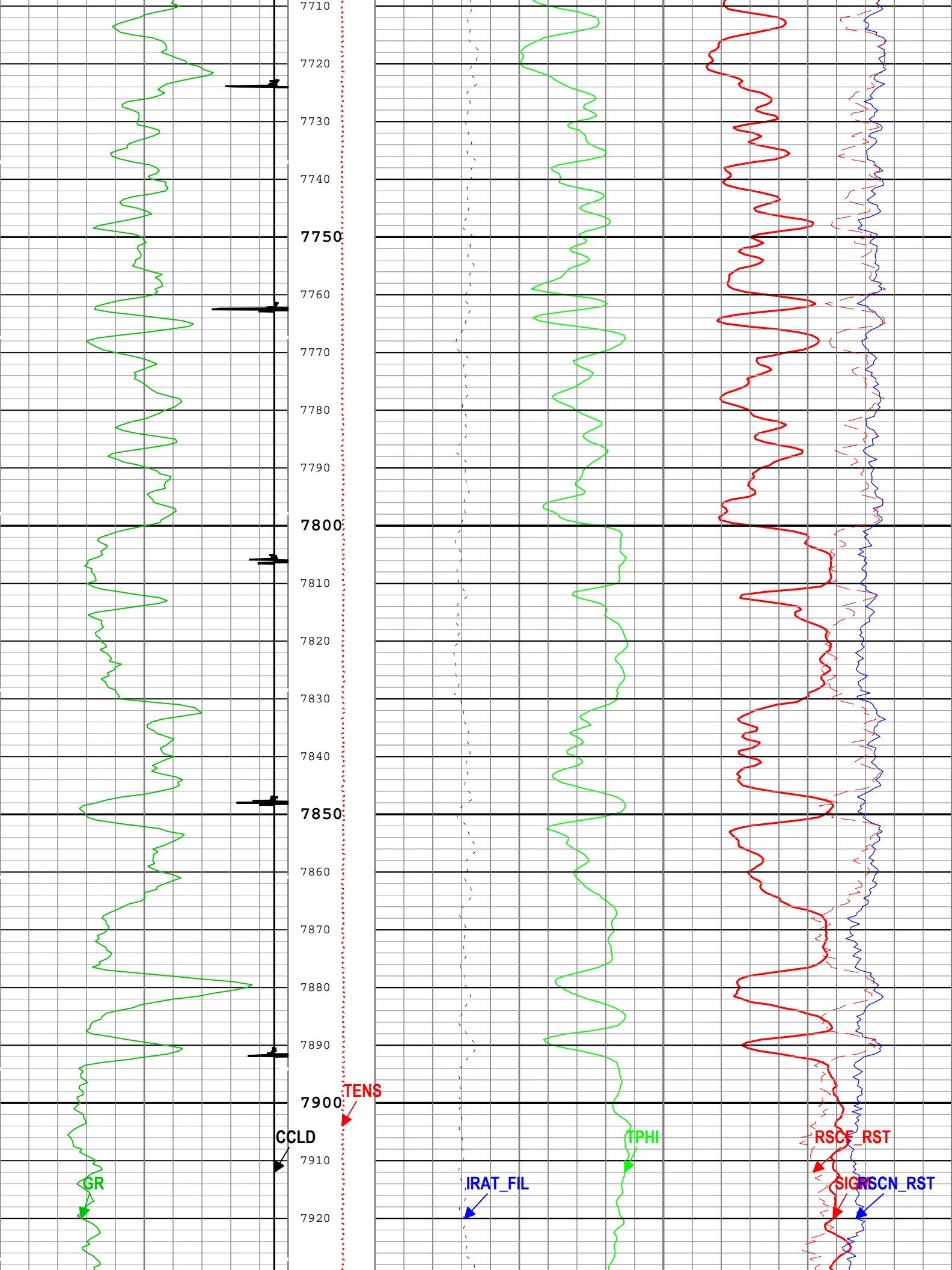


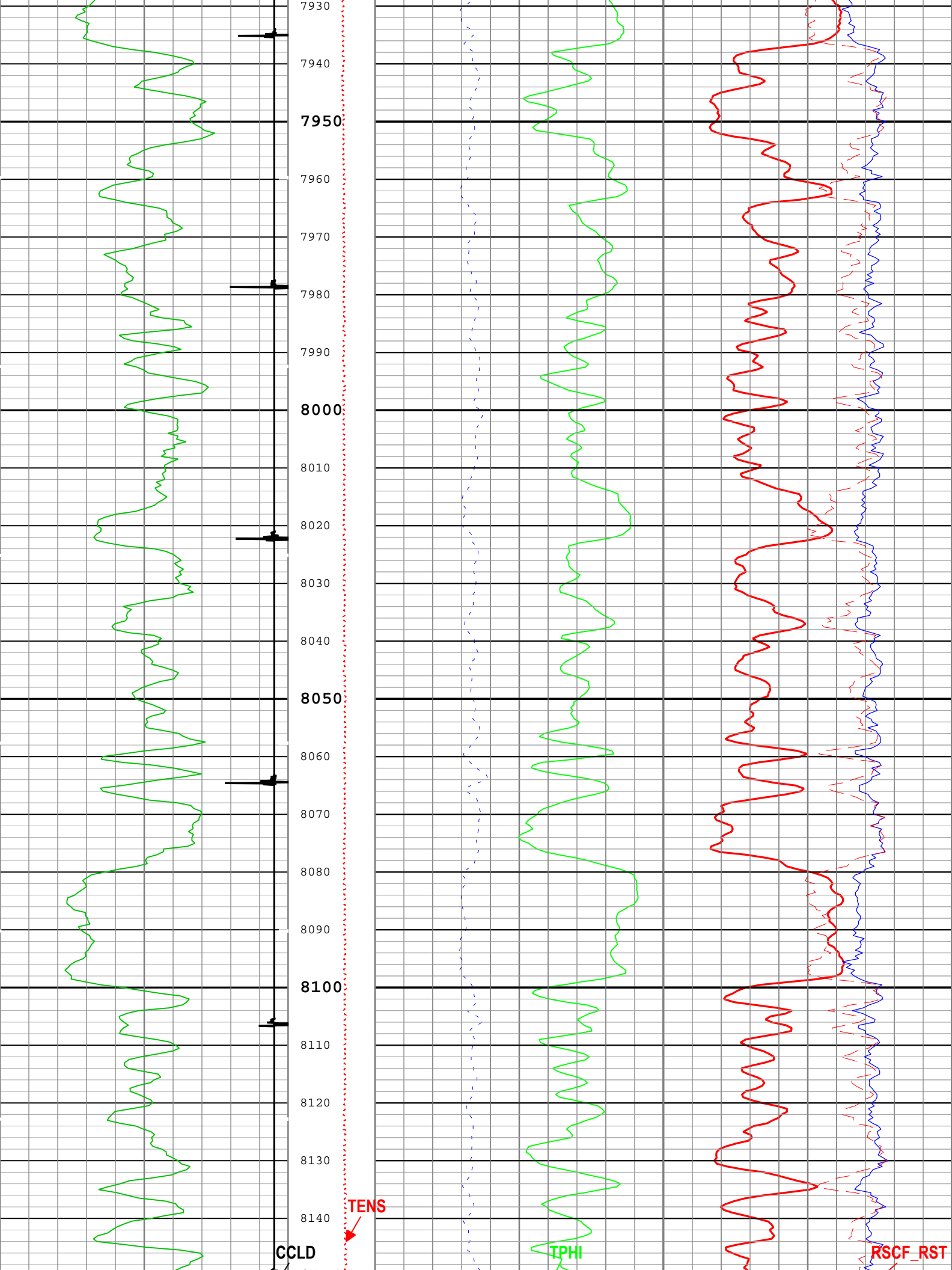


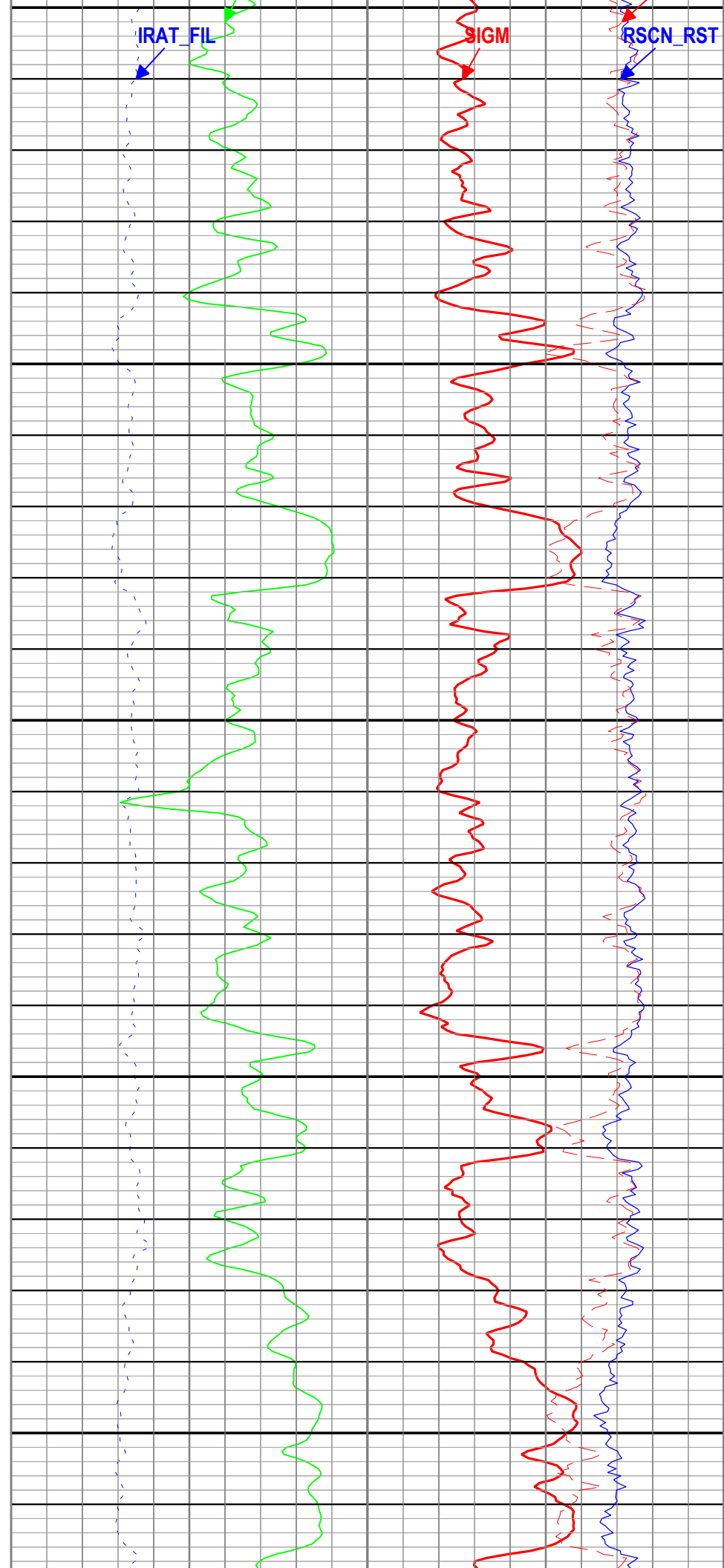
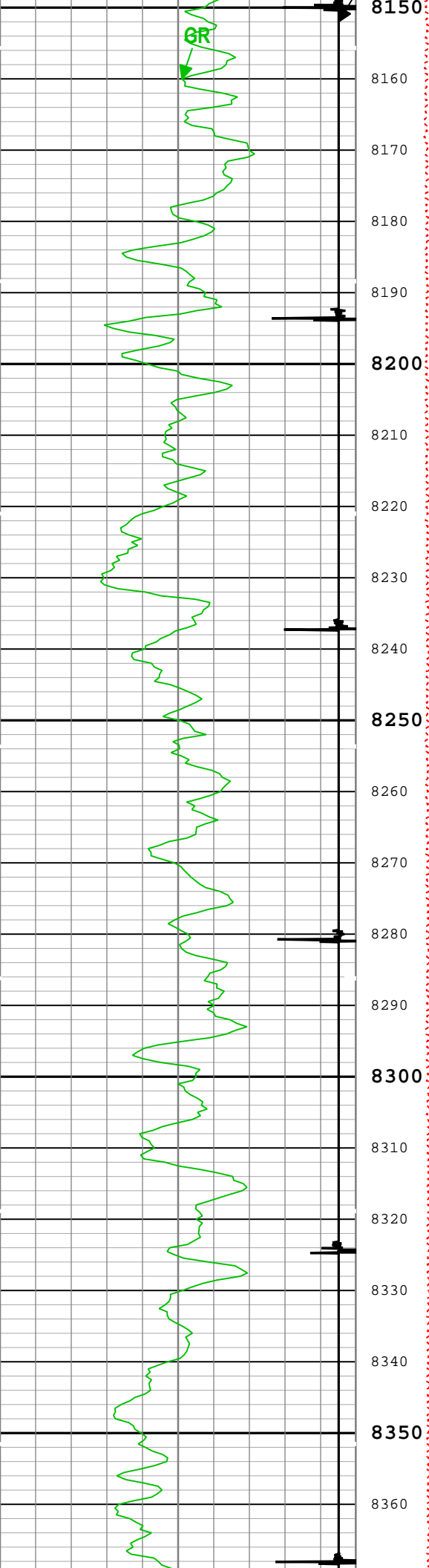


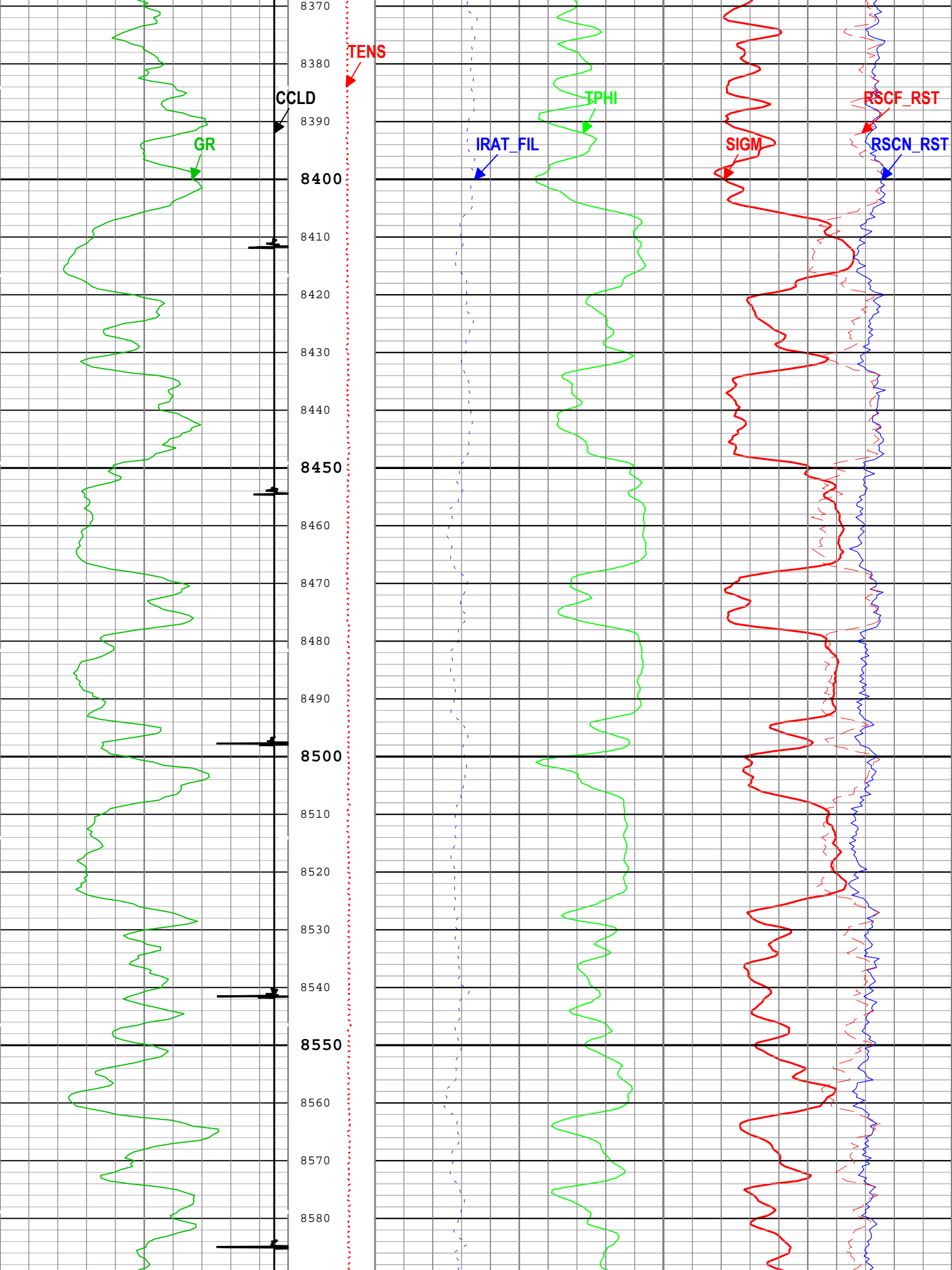


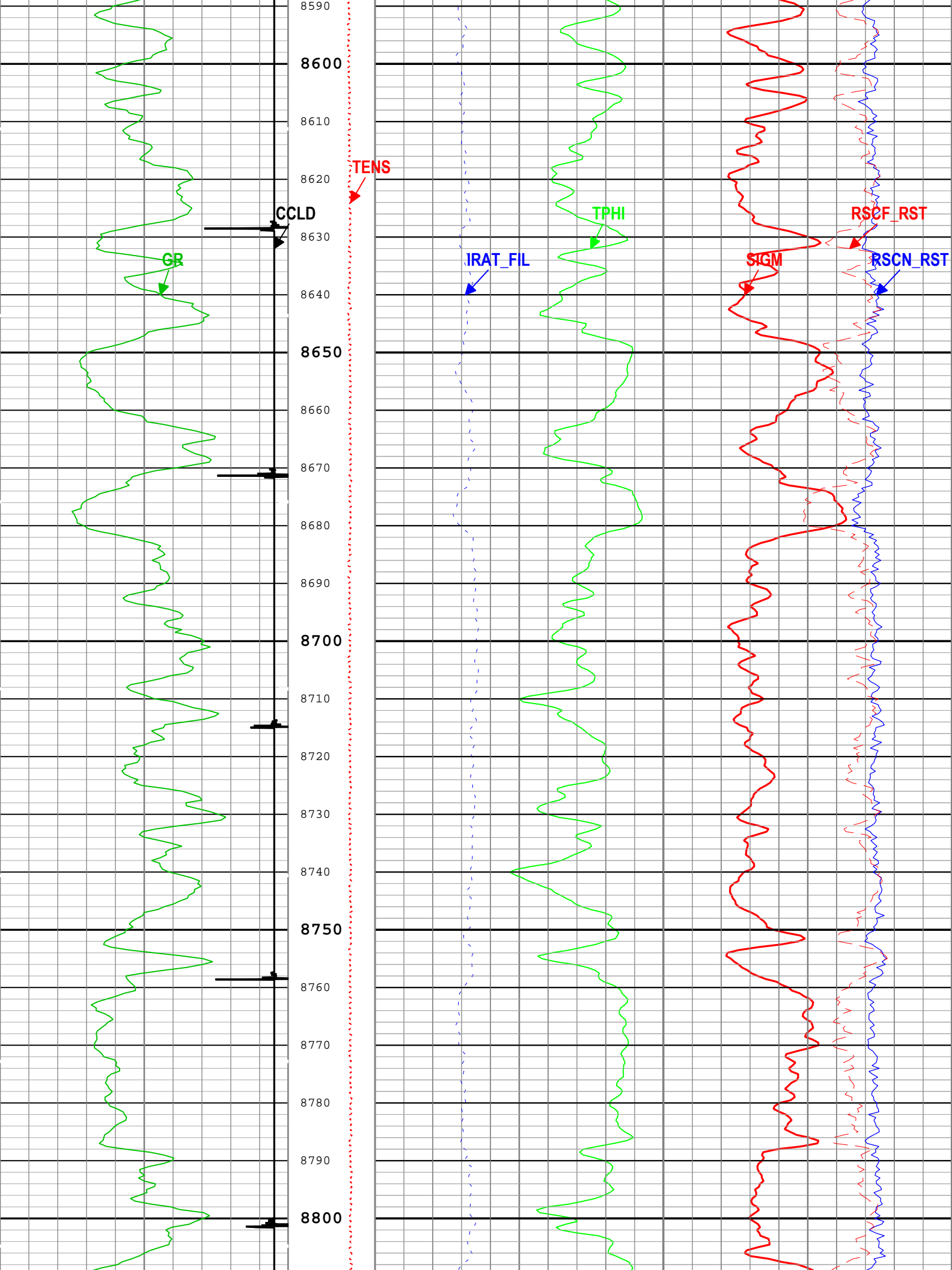


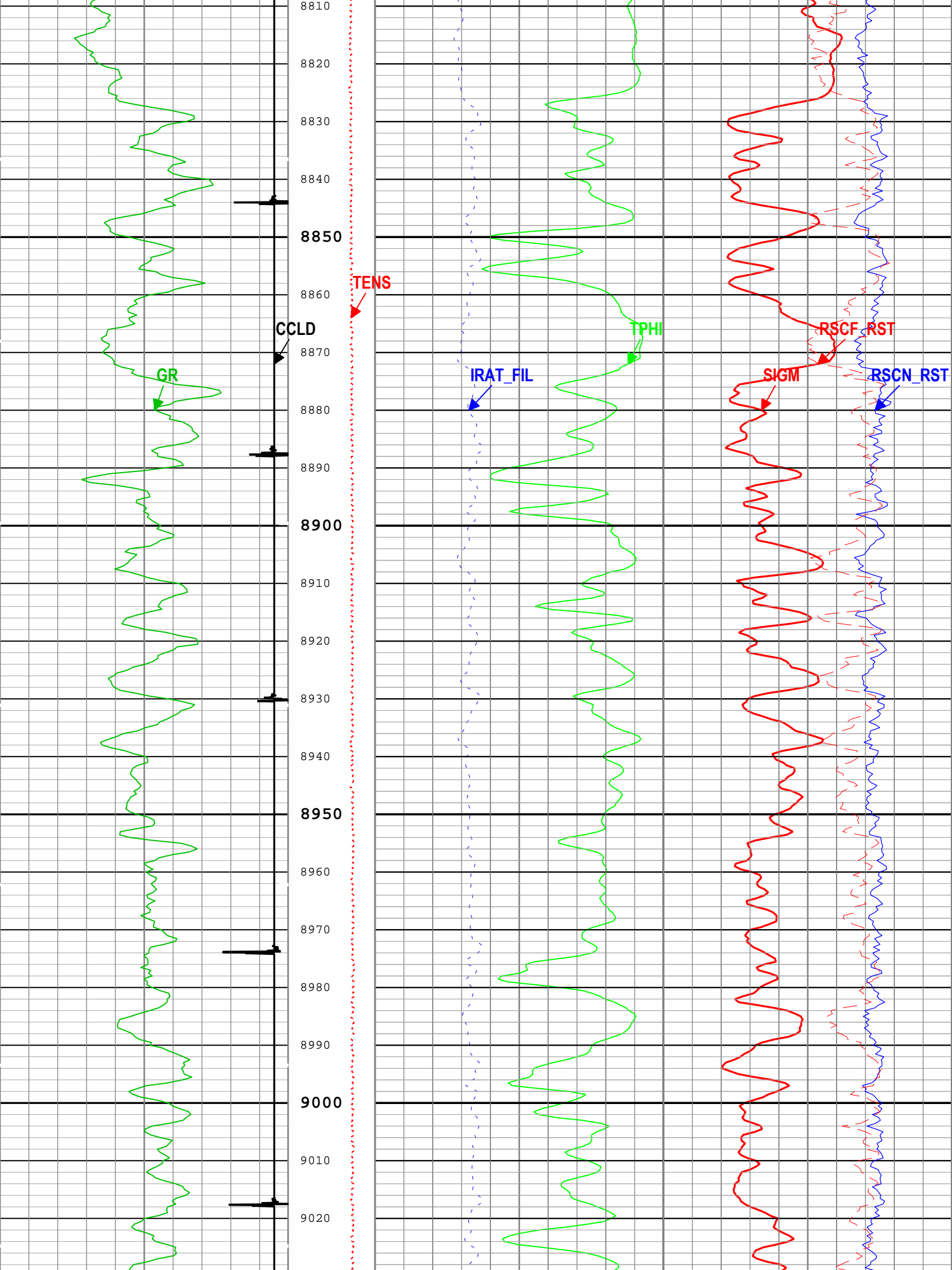


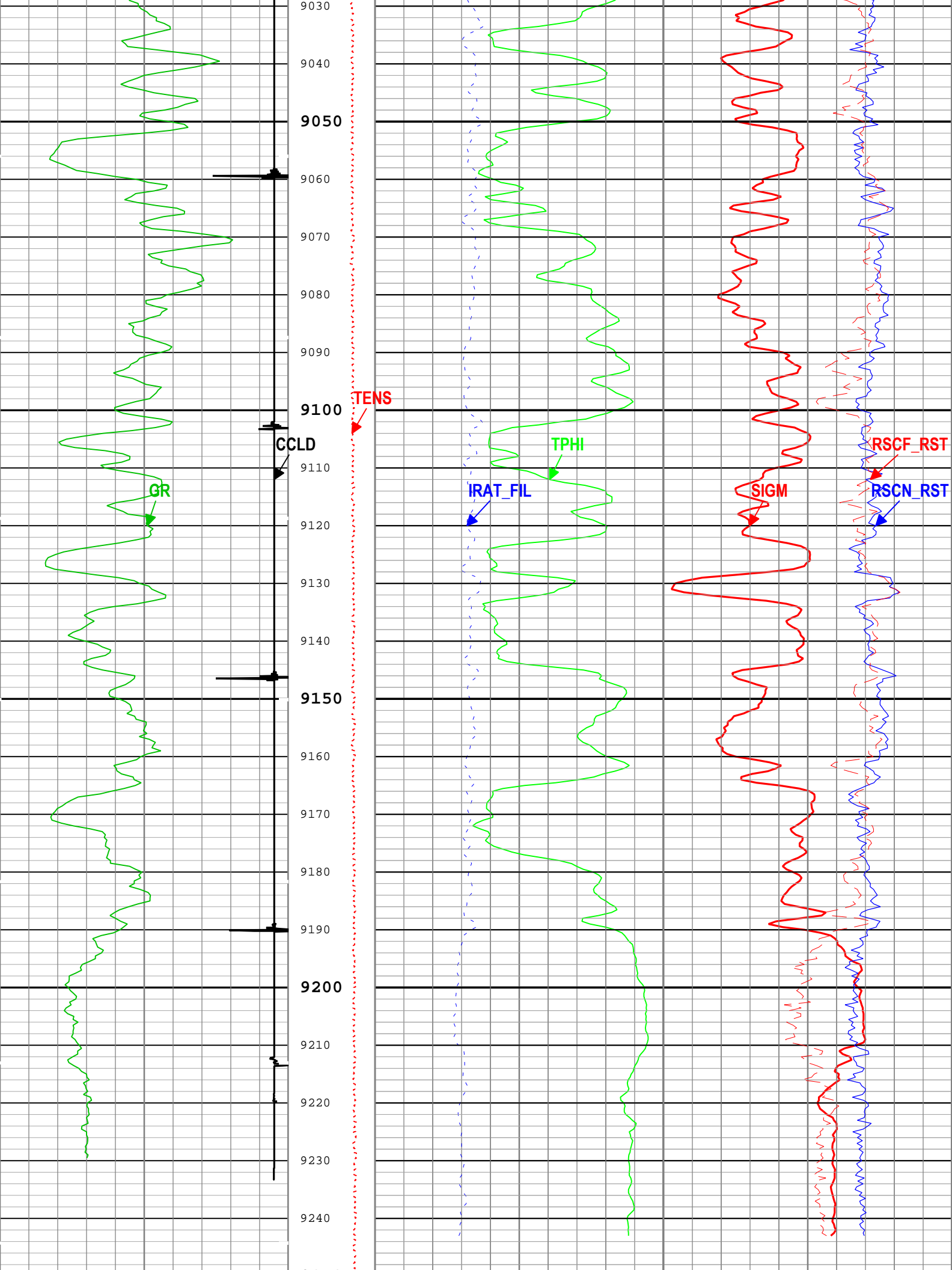


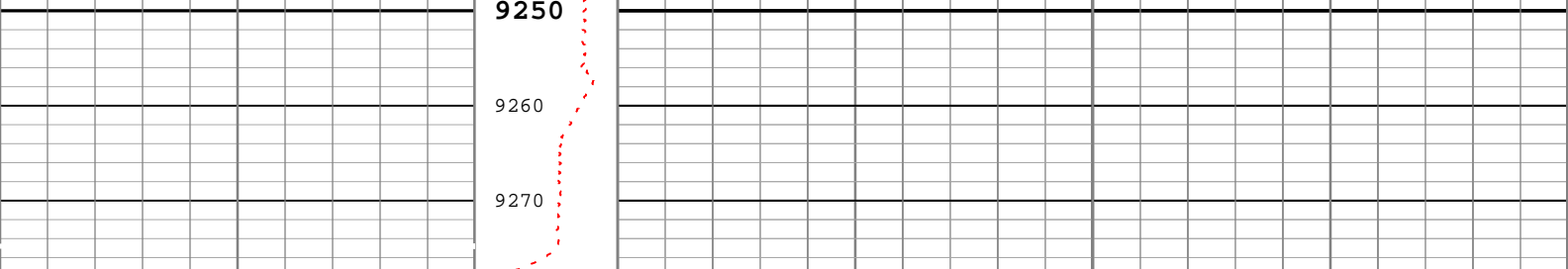












Gamma Ray (GR) PSTP-A			Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
0	gAPI	150	60	cu	0
CCL Discriminated Amplitude (CCLD) PSTP-A			Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C		
-19	V	1	Inelastic Ratio Filtered (IRAT_FIL) RST-C	0	45
			Far Detector Effective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

TIME_1900 - Time Marked every 60.00 (s)

— 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)

— 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 17:37:35

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	2300	2519.6
BS	8.75	2519.6	9258

All depth are actual.

Tool Control Parameters

One: Parameters

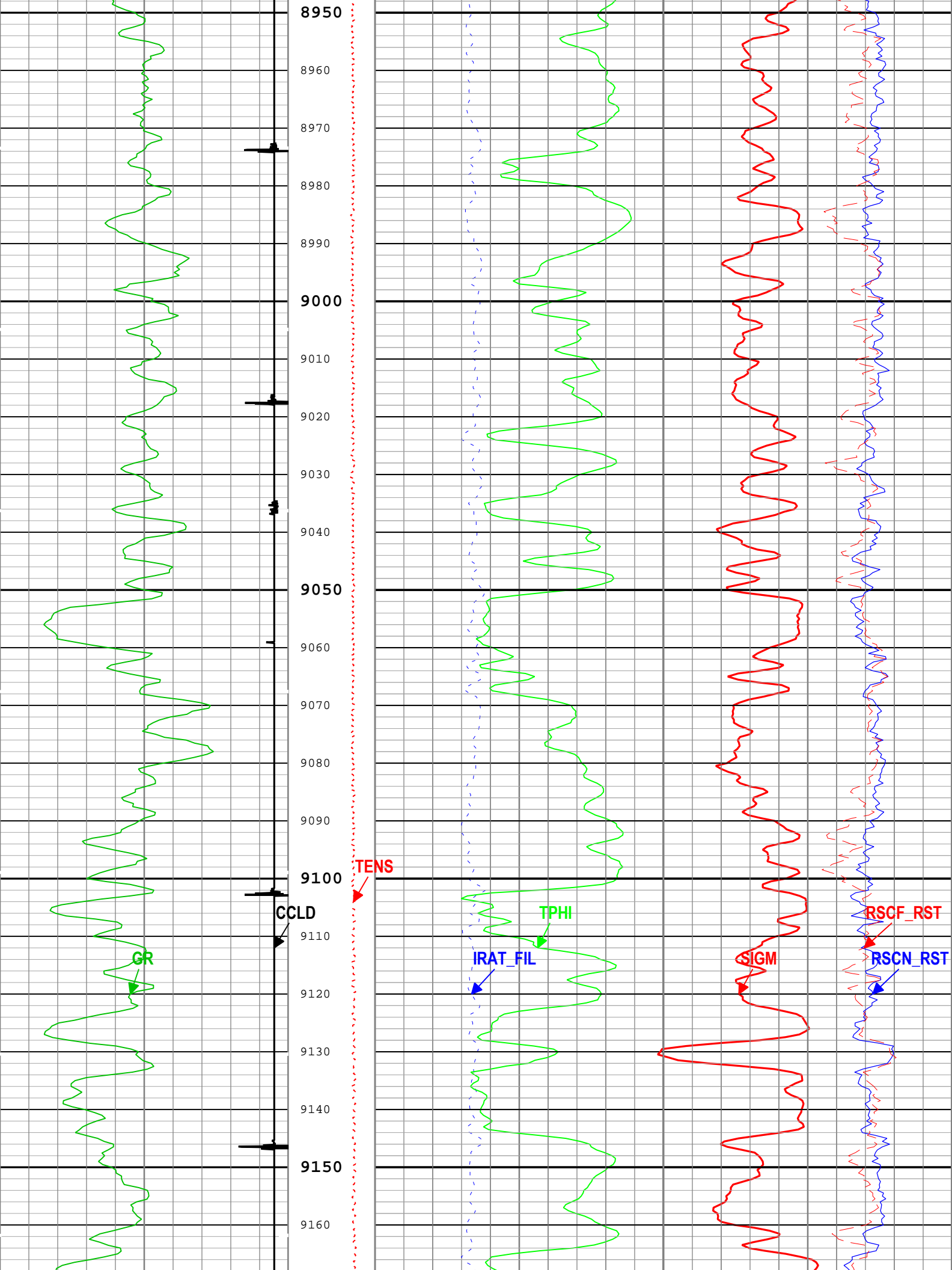
Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	24 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

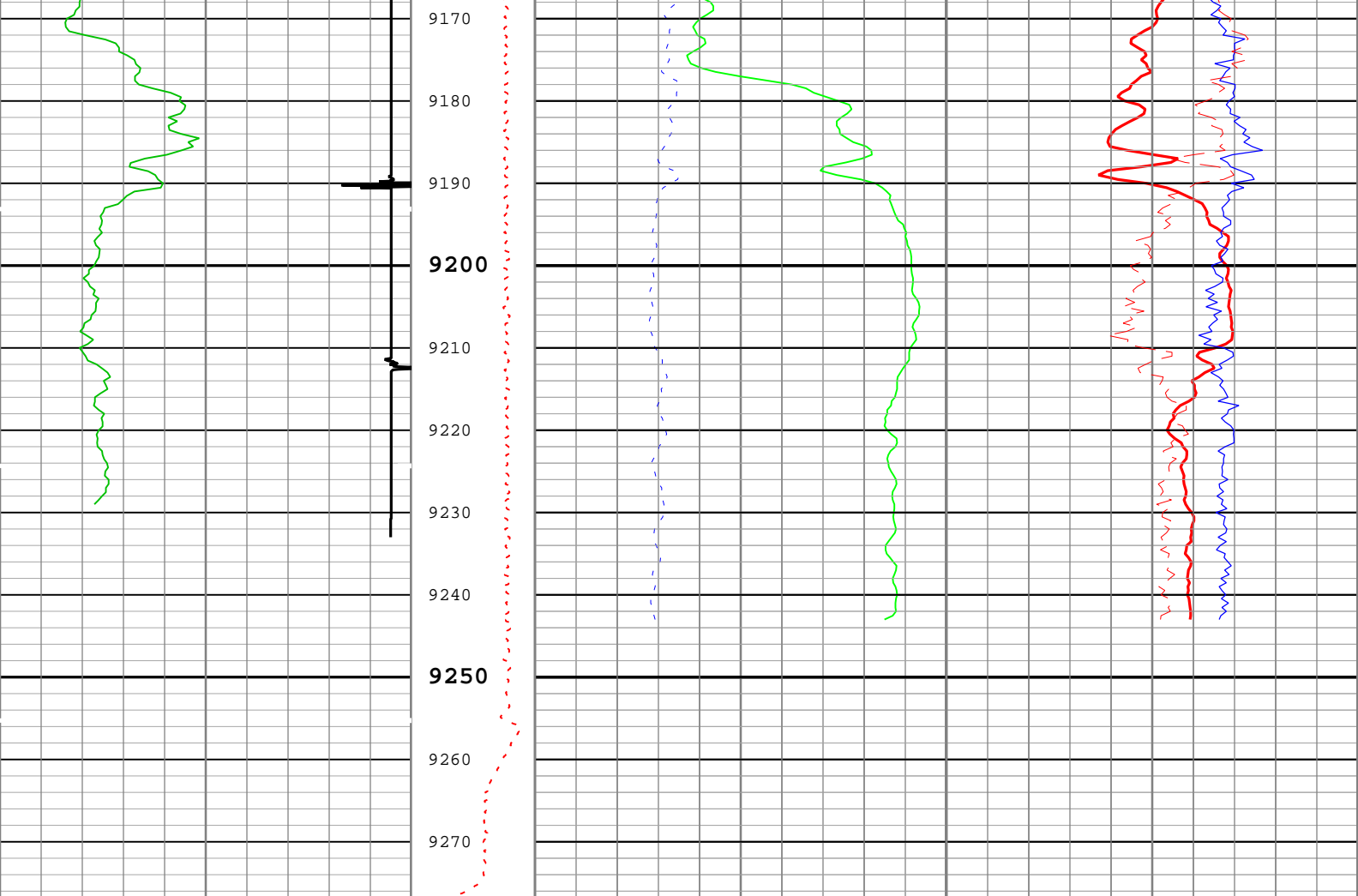
One

RST Sigma Repeat Pass

Software Version

TIME_1900 - Time Marked every 60.00 (s)		Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C	
Gamma Ray (GR) PSTP-A		Inelastic Ratio Filtered (IRAT_FIL) RST-C	
0	150	0.75	0
CCL Discriminated Amplitude (CCLD) PSTP-A		Thermal Decay Porosity (TPHI) RST-C	
-19	1	0.6	0
Cable Tension (TENS)		Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C	
0	1bf 2000	60	0
		Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C	
		cu	





Gamma Ray (GR) PSTP-A			Cable Tension (TENS)	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
0	gAPI	150		60	cu0	
CCL Discriminated Amplitude (CCLD) PSTP-A				Inelastic Ratio Filtered (IRAT_FIL) RST-C		
-19	V	1		0.75	0	Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C
			Thermal Decay Porosity (TPHI) RST-C			
			0.6	ft3/ft3	0	Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
			450			
			450			

TIME_1900 - Time Marked every 60.00 (s)

— 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)

— 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 17:37:38

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	
DET_CATEGORY	Drilling Fluid Type	Borehole	Water	

DPT_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 15B-26	
Field:	Grand Valley	
County:	Garfield	
State:	Colorado	
Cement Bond Log		
RST Sigma Log		
Gamma Ray - Collar Locator Log		