

Company: Caerus Operating LLC

Well: NPR 11A-15 596

Field: NPR

County: Garfield State: Colorado

Cement Bond Log  
RST Sigma Log  
Gamma Ray - Collar Locator Log

County: Garfield  
Field: NPR  
Location: K10-596  
Well: NPR 11A-15 596  
Company: Caerus Operating LLC

K10-596	Location:		Elev.: K.B. 6733.00 ft G.L. 6709.00 ft D.F. 6733.00 ft
	Permanent Datum:	Ground Level	Elev.: 6709.00 f
Log Measured From:		Kelly Bushing	24.00 ft above Perm.Datum
Drilling Measured From:		Kelly Bushing	
API Serial No.	Section:	Township:	Range:
05045237850000	10	5S	96W

Logging Date 16-Sep-2018

Run Number	1
Depth Driller	9782.00 ft
Schlumberger Depth	9736.00 ft
Bottom Log Interval	9736.00 ft
Top Log Interval	1800.00 ft
Casing Fluid Type	2% KCL Water
Salinity	
Density	8.5 lbm/gal
Fluid Level	8.00 ft
BIT/CASING/TUBING STRING	
Bit Size	8.75 in
From	2061.00 ft
To	9782.00 ft
Casing/Tubing Size	4.5 in
Weight	11.6 lbm/ft
Grade	P110
From	0.00 ft
To	9737.00 ft
Max Recorded Temperatures	274 degF
Logger on Bottom	17-Sep-2018 01:45:00
Unit Number	3007
Recorded By	Richard Woods
Witnessed By	Trent Ray

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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9.4 Log ( Sonic CBL with VDL )

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10. Main Pass RST Sigma Main Pass

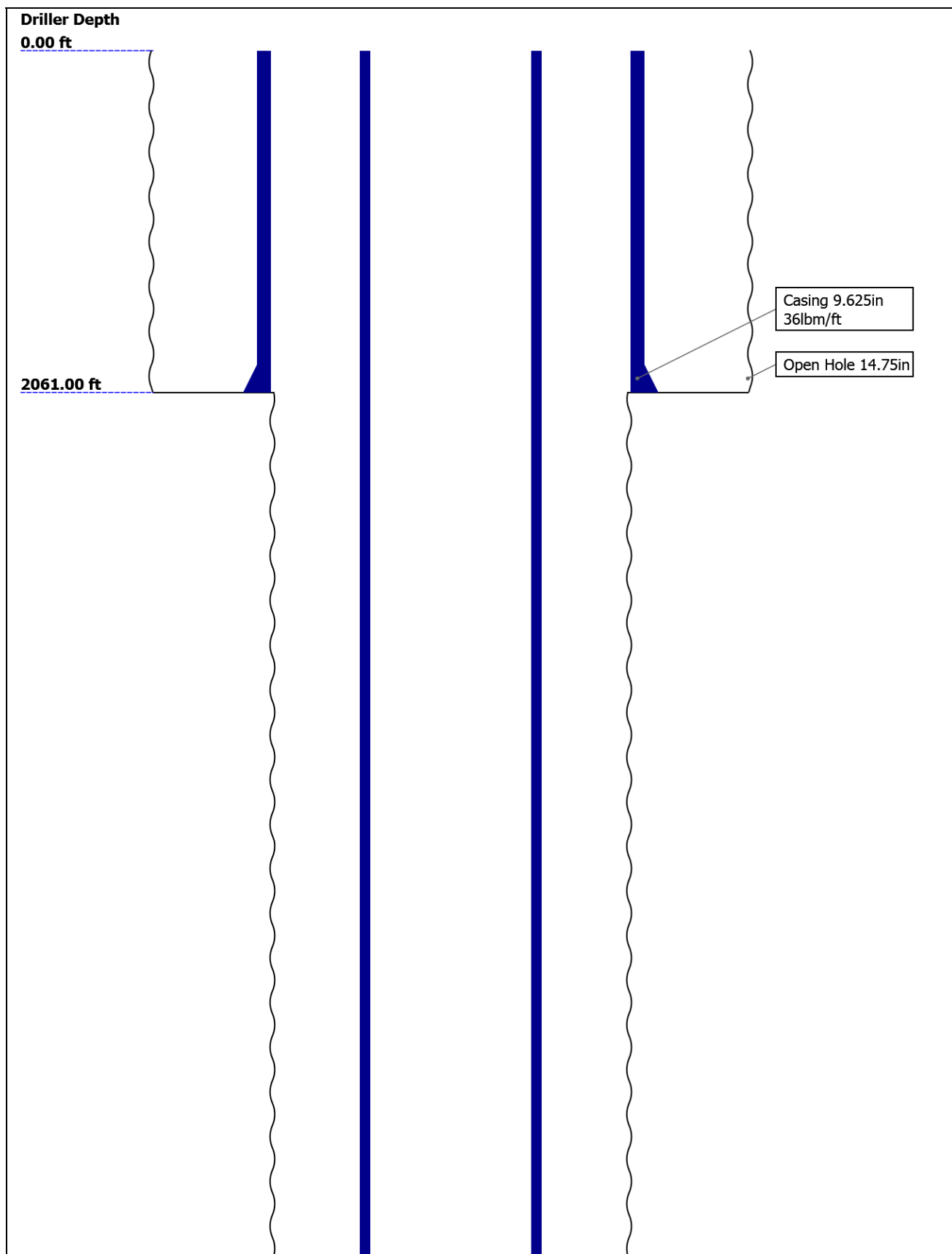
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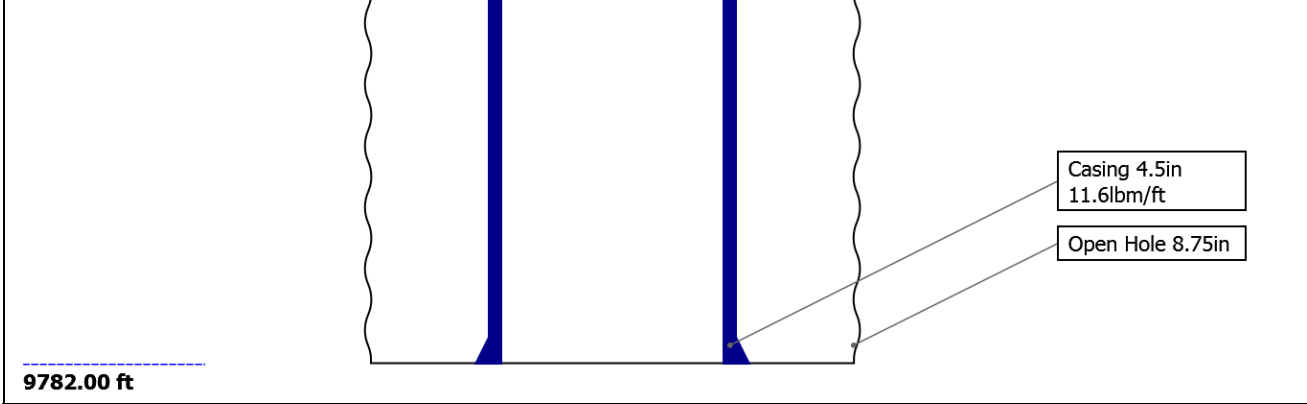
10.2 Software Version

10.3 Composite Summary

10.4 Log ( RST SIGMA Answer )

## Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size ( in )	14.75	8.75				
Top Driller ( ft )	0	2061				
Top Logger ( ft )	0	2061				
Bottom Driller ( ft )	2061	9782				
Bottom Logger ( ft )	2061	9782				
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 )	2061	9782				
Bottom Logger ( ft )	2061	9737				

Remarks and Equipment Summary

1: Toolstring				1: Remarks
Equip name	Length	MP name	Offset	Tool ran as per tool Sketch.
PEH-E	61.66			RST Sigma Mode.
				Max Temperature Recorded 274DegF.
AH-38	59.98	GR	55.99	Matrix: Sandstone.
PSTP-B:282	59.7	PSTC	55.7	
6		PSTC Tool	0.00	
PSC-A		String Bot		
PSTC-A		tom		
PBMS-B:2826		Temperatu	52.95	
		re		
		CQG Press	52.6	
		ure		
		CCL	52.18	
		PBMS	51.43	
RST-C:578	51.43			
RSCH-A:437				
RSC-E:551				
RSS-A:488				
MNTR-F:1352				
-51352				
RSXH-A				
RSX-E:578				
		RSC-E	45.08	

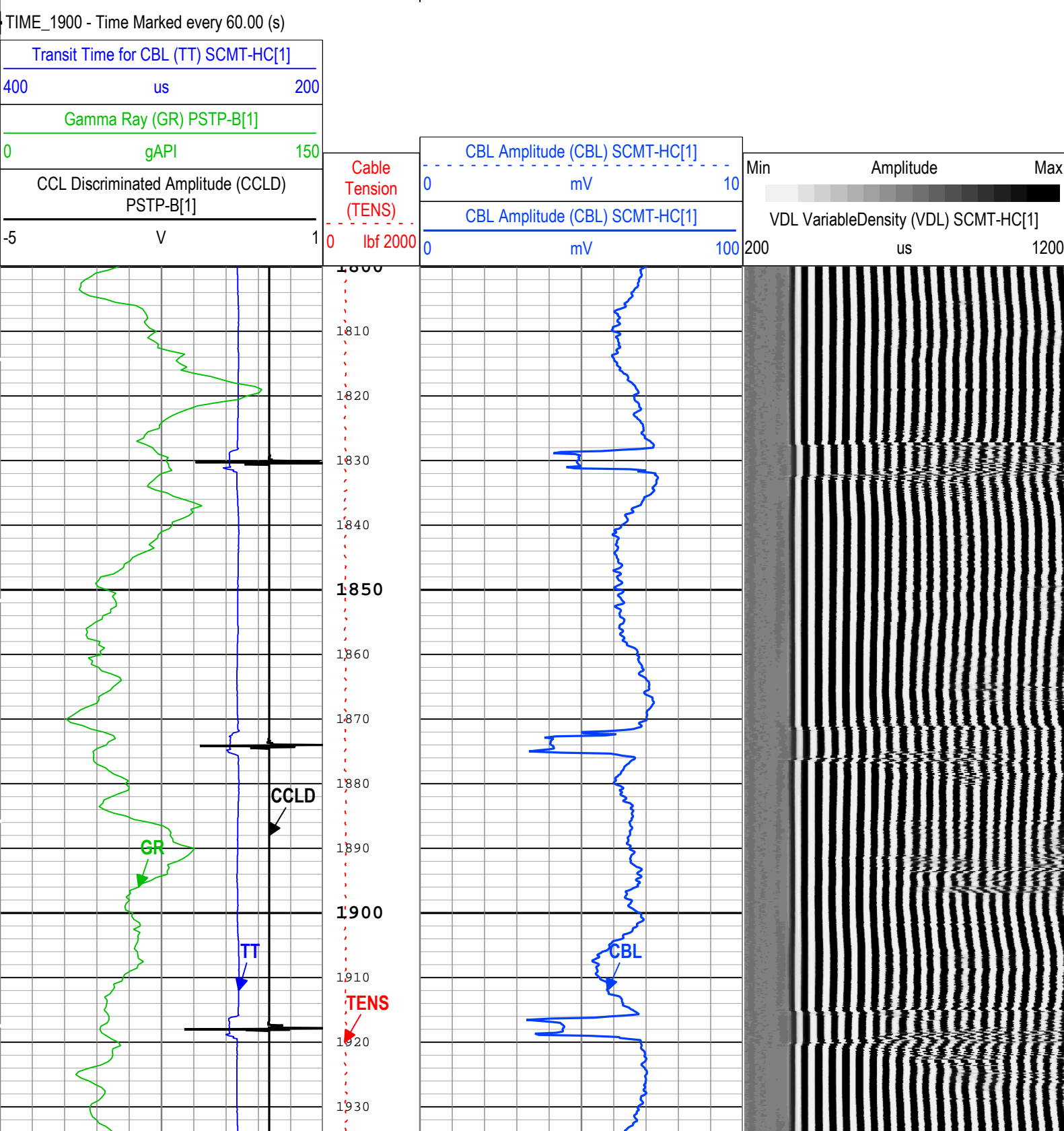
Component	Value	Value
Far		42.32
Near		41.82
Adaptor_Head	28.41	28.41
SCMT-HC:8225	26.49	
UDFH-RMC:8220		
SCMC-HC:8225		
SCME-K		
SCMS-CA:8225		
UDFH-RMT		
SCMX-HC		
DT		14.03
CBL5		12.53
DTSC		12.53
CBL3		11.53
MAP		11.03
AUX		10.03
SCMT		5.71

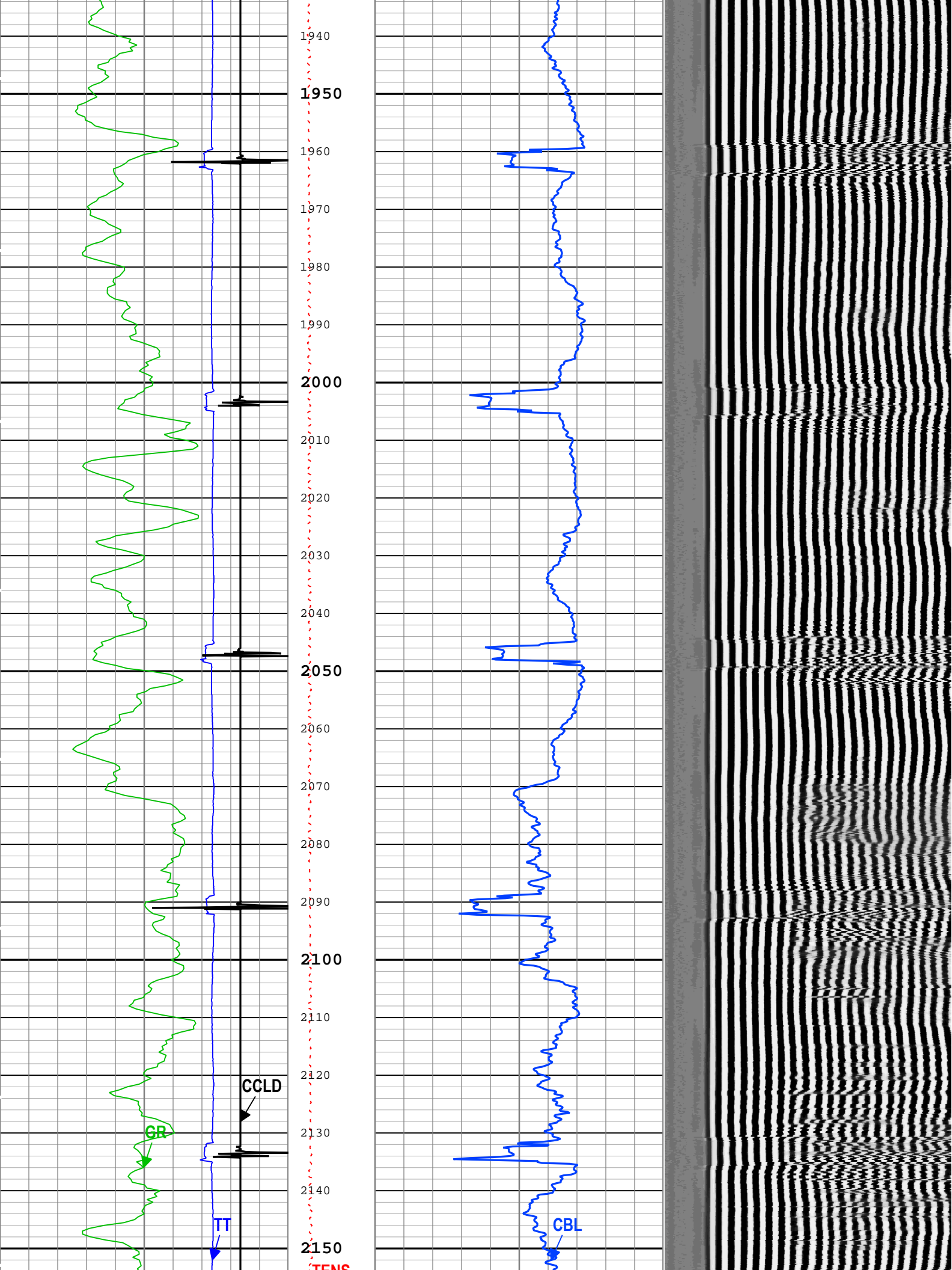


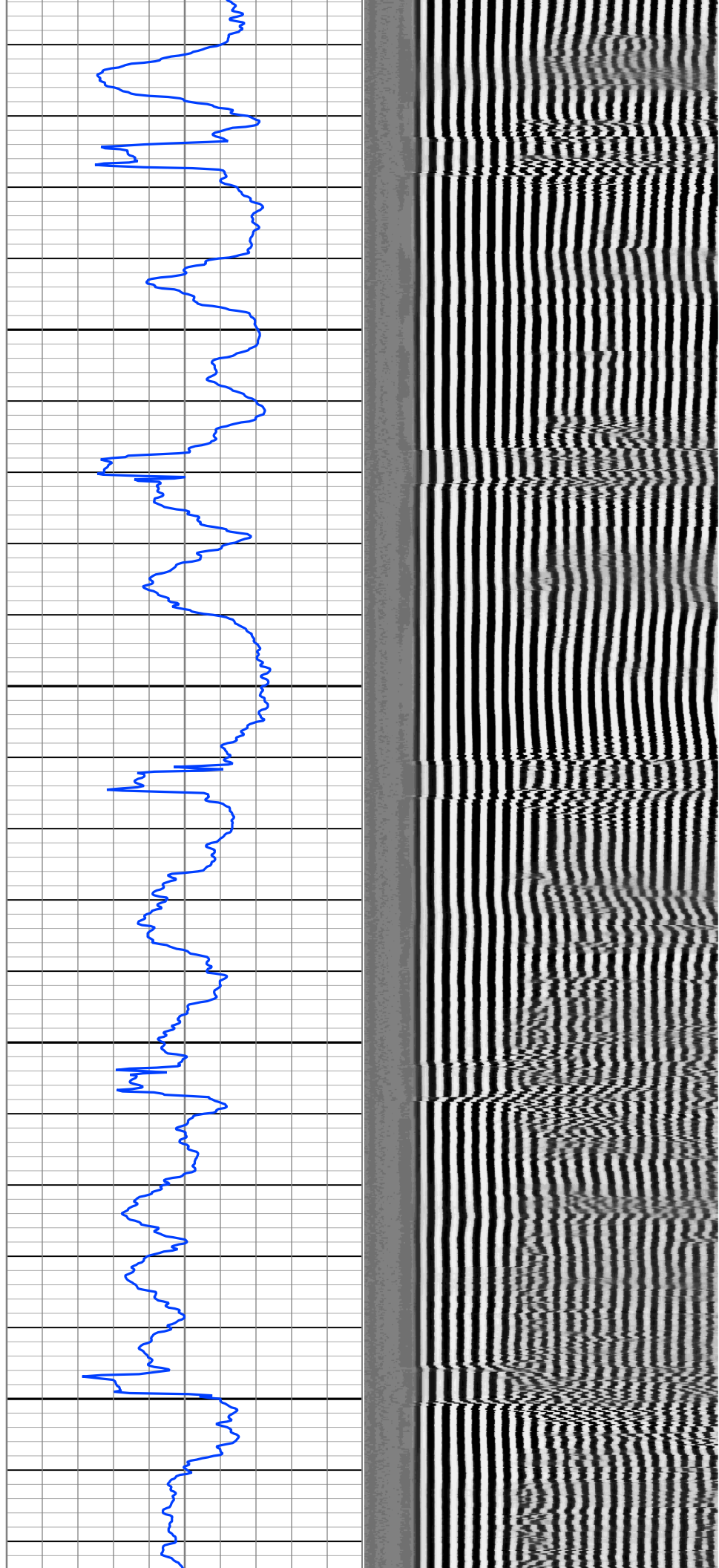
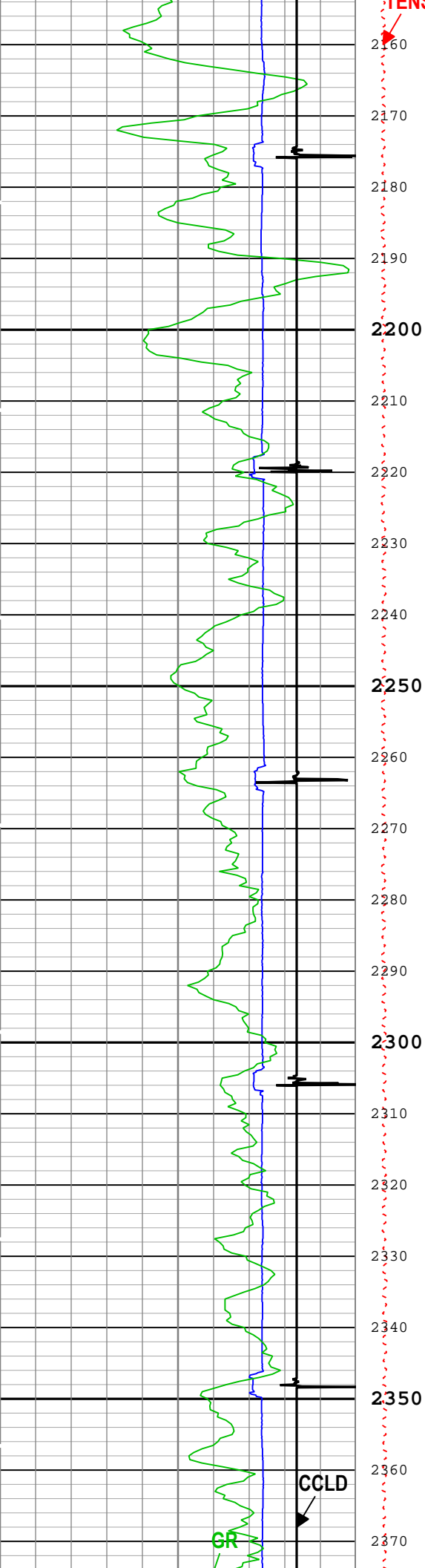
<div><div><div>BNS-P</div><div>0.14</div></div><div><div><div></div><div>TOOL_ZERO</div></div><div>Lengths are in ft</div><div>Maximum Outer Diameter = 2.065 in</div><div>Line: Sensor Location, Value: Gating Offset</div><div>All measurements are relative to TOOL_ZERO</div></div></div>							
Depth Summary							
		1					
Depth Measuring Device							
Type		IDW-JA					
Serial Number		5979					
Calibration Date		10-JUN-2017					
Calibrator Serial Number		IDWC-C-57					
Calibration Cable Type		1-25ZA-XXS					
Wheel Correction 1		-3					
Wheel Correction 2		-3					
Tension Device							
Type		CMTD-B/A					
Serial Number		5036					
Calibration Date		10-Sep-2018					
Calibrator Serial Number		112544A					
Number of Calibration Points		10					
Calibration Root Mean Square Error		21					
Calibration Peak Error		10					
Logging Cable							
Type		1-25ZA					
Serial Number		112140					
Length		16800.00 ft					
Conveyance Type		Wireline					
Rig Type		Crane					
1:Depth Control Parameters				Depth Control Remarks			
Log Sequence		First Log In the Well		All Schlumberger depth control procedures followed.			
Rig Up Length At Surface				IDW used as promary depth control.			
Rig Up Length At Bottom				Z-Chart used as secondary depth control			
Rig Up Length Correction				Log Correlated with log down.			
Stretch Correction							
Tool Zero Check At Surface							
Main Pass							
CBL-VDL Main Pass							
Software Version							
Acquisition System				Version			
Maxwell 2017 SP3				7.3.92069.3100			
Application Patch				Wireline_Hotfix-RTDLIS-2017SP3_7.3.92363			
				Wireline_Hotfix-SML-2017SP3_7.3.101161			
Composite Summary							

Log	Company:Caerus Operating LLC	Well:NPR 11A-15 596
		Main Pass:S007

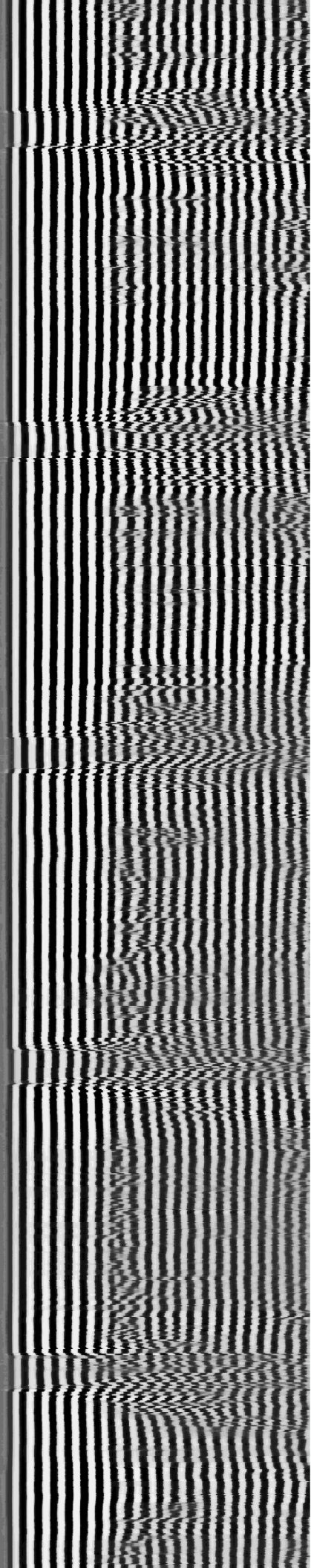
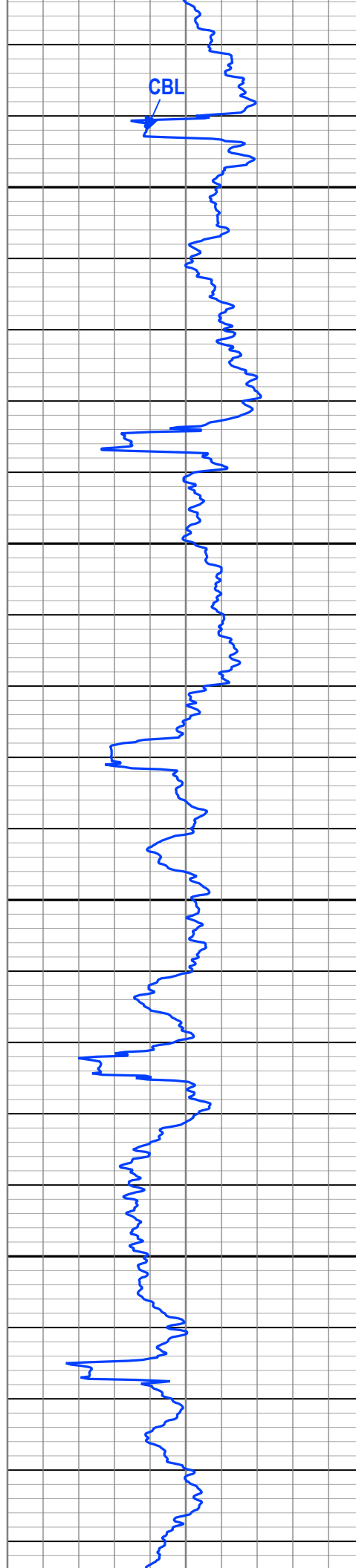
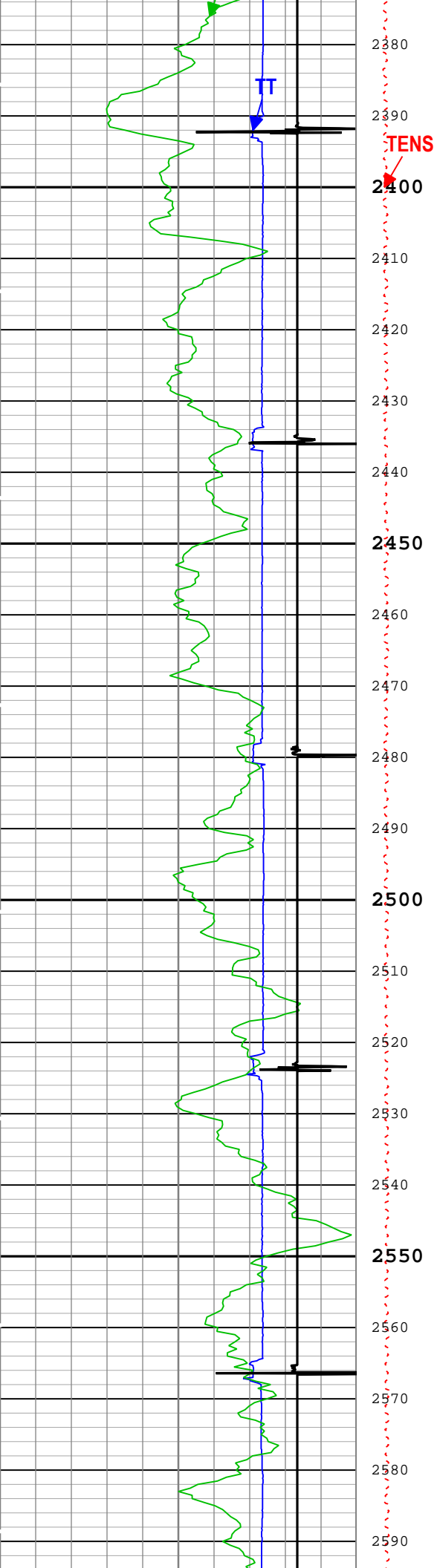
■ BIEP - Bond Index Event Pips SCMT-HC[1]

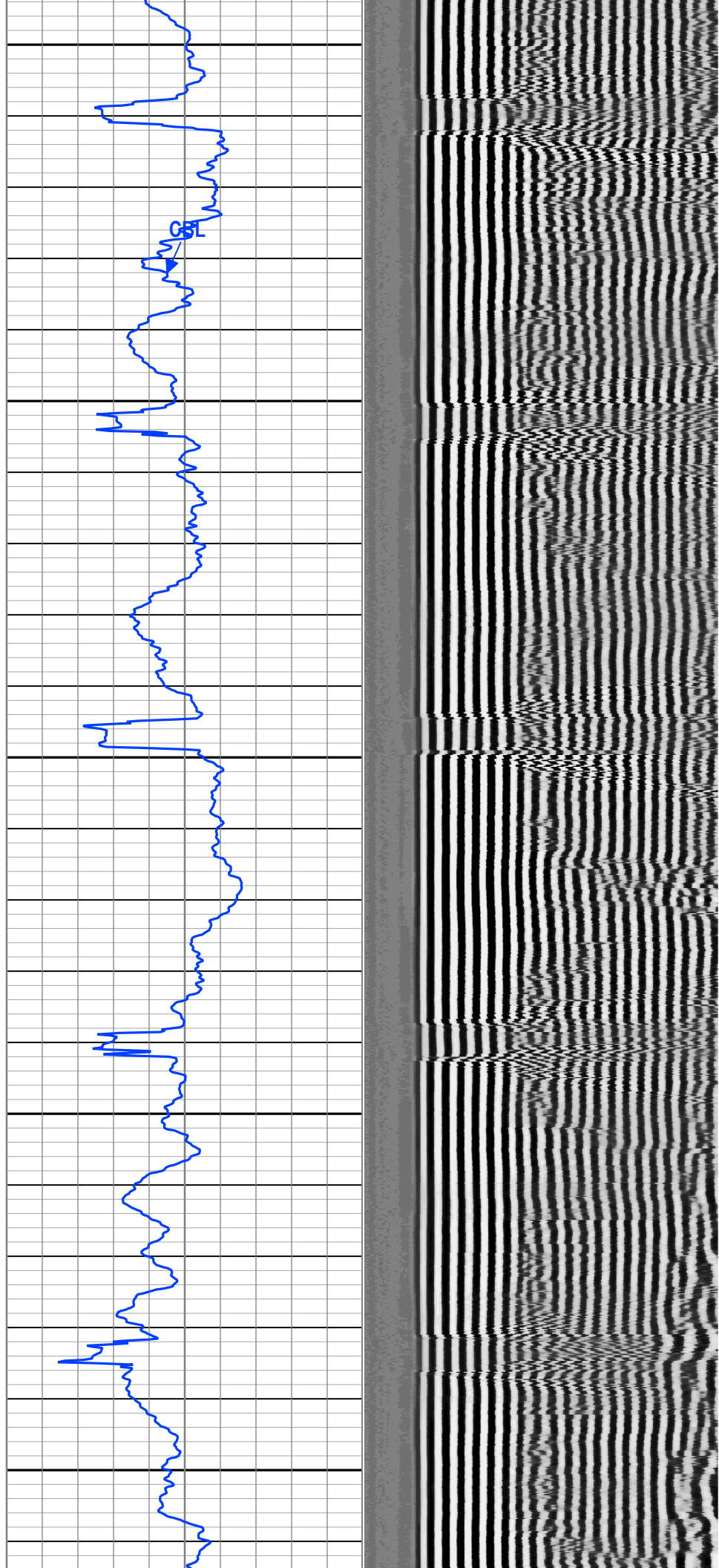
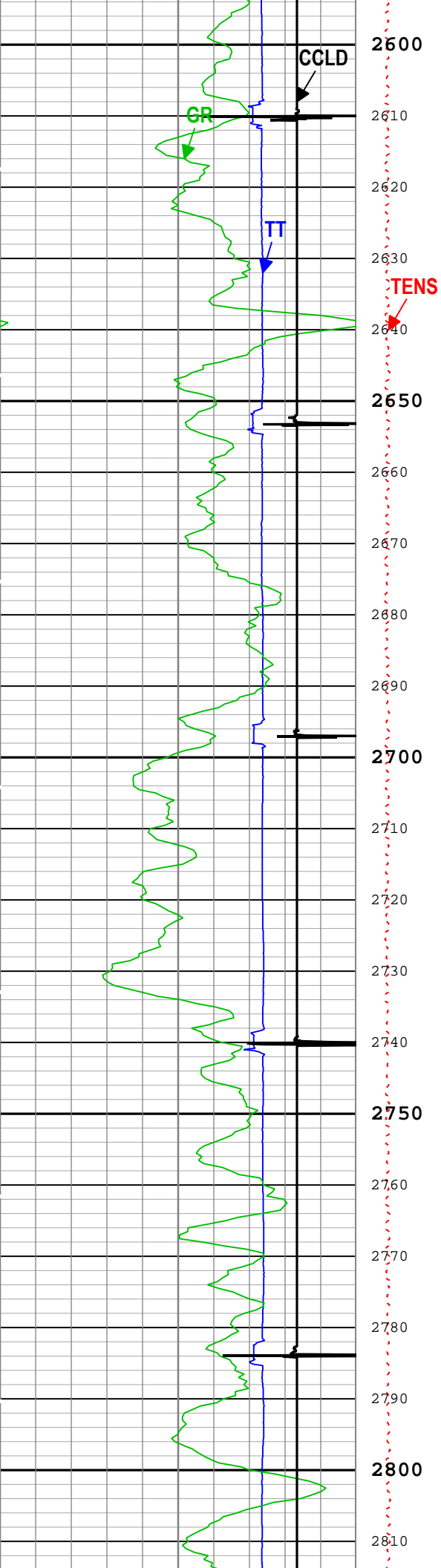


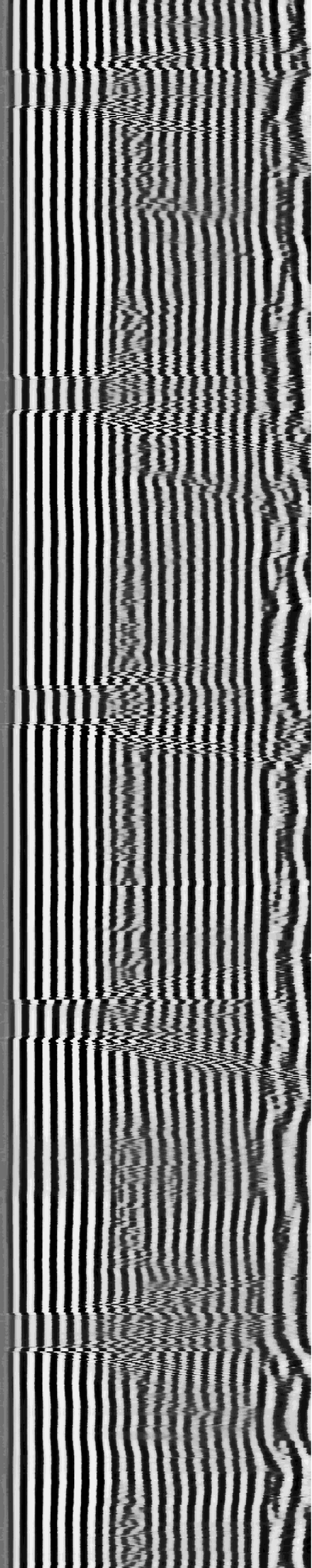
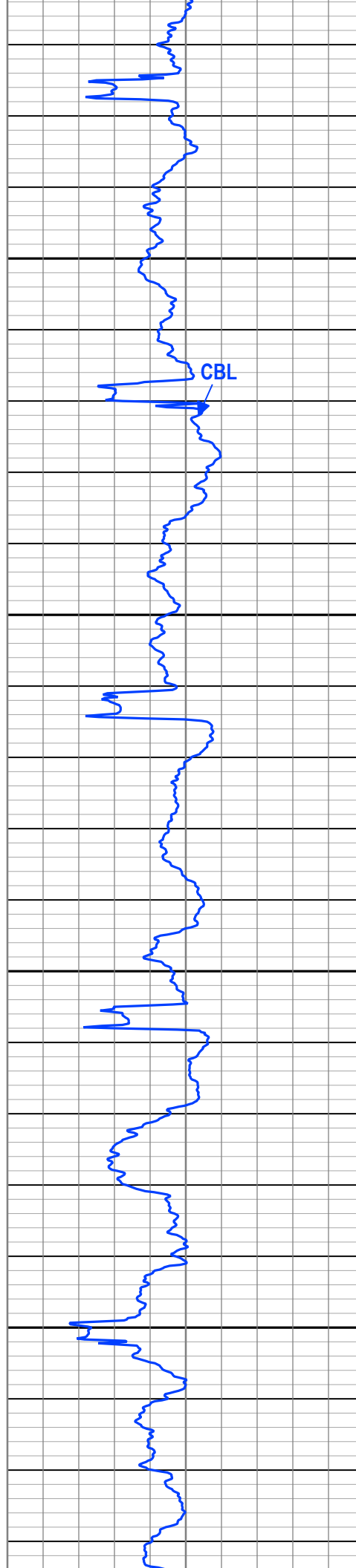
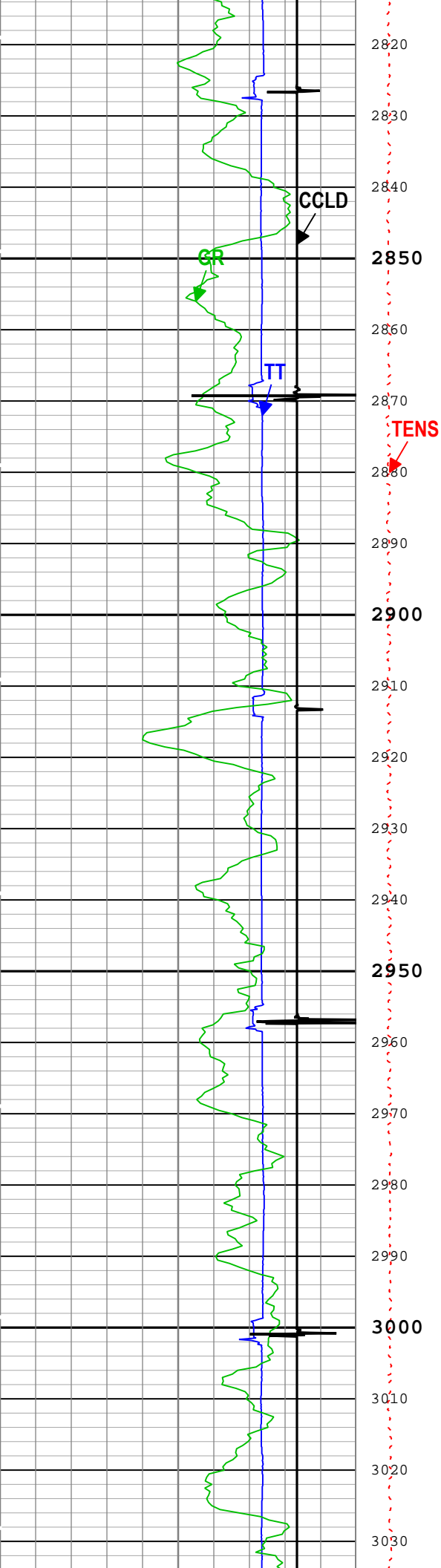




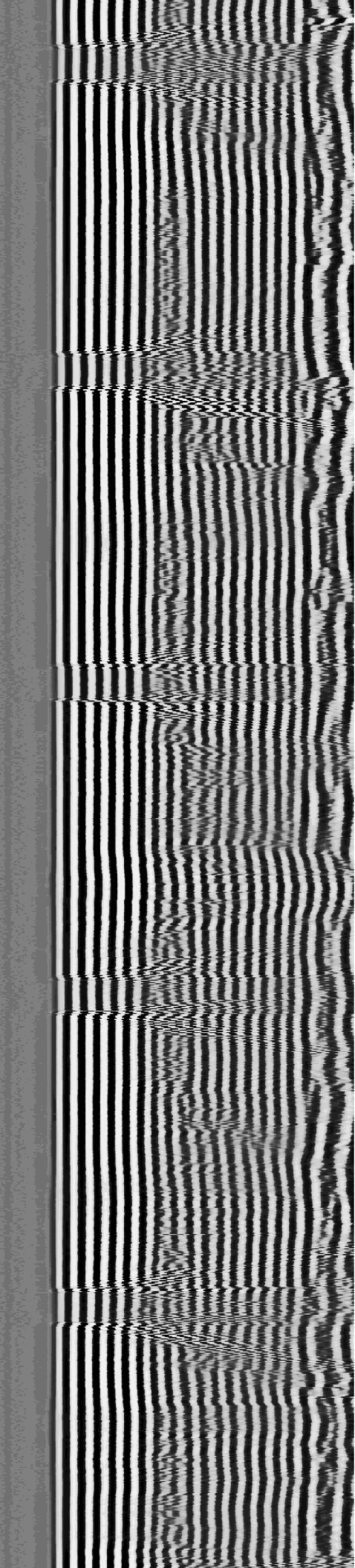
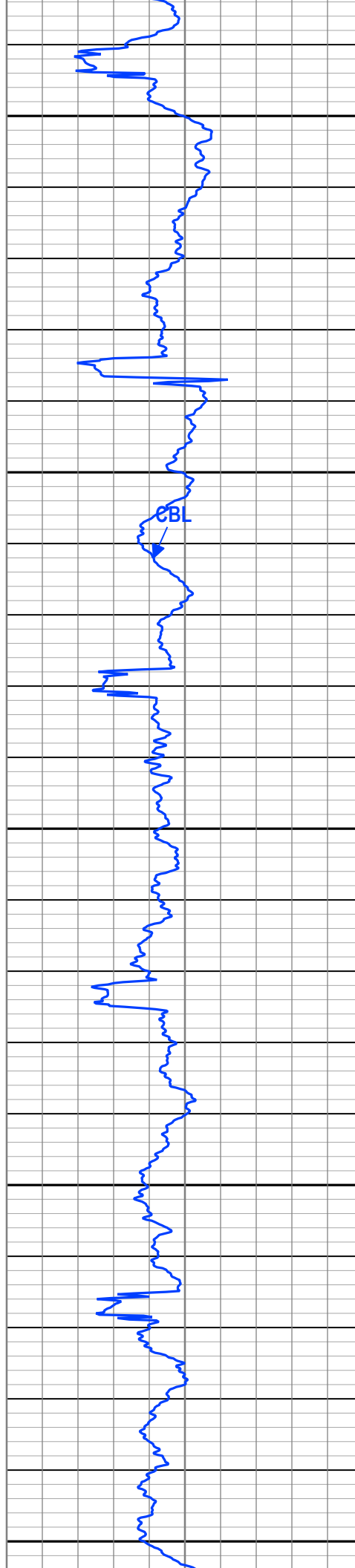
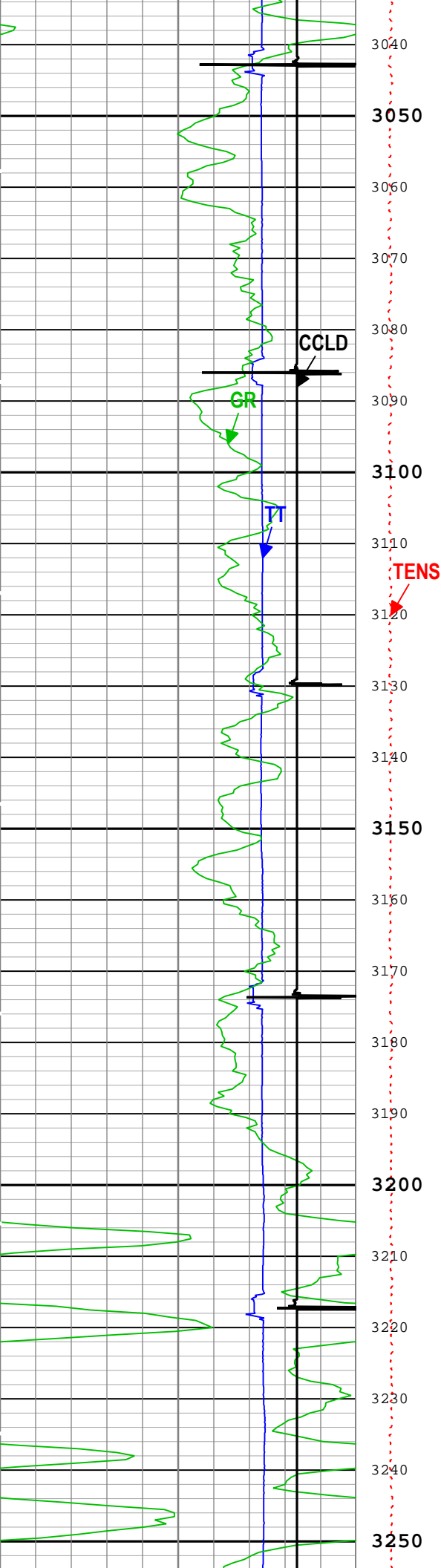




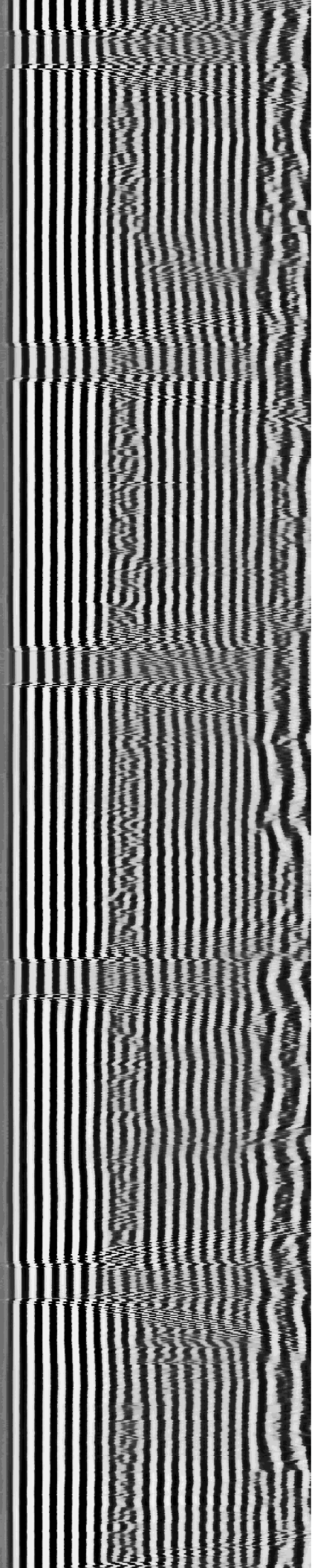
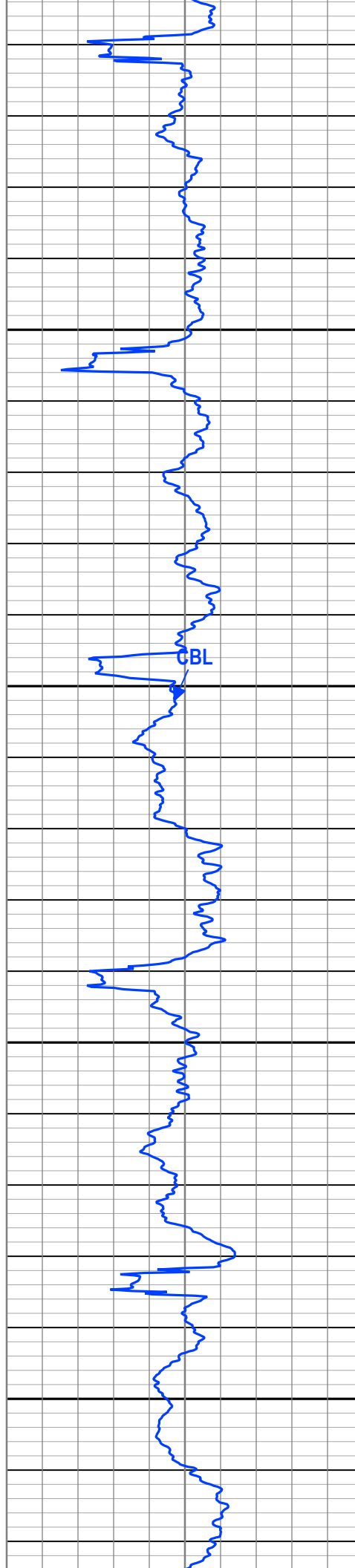
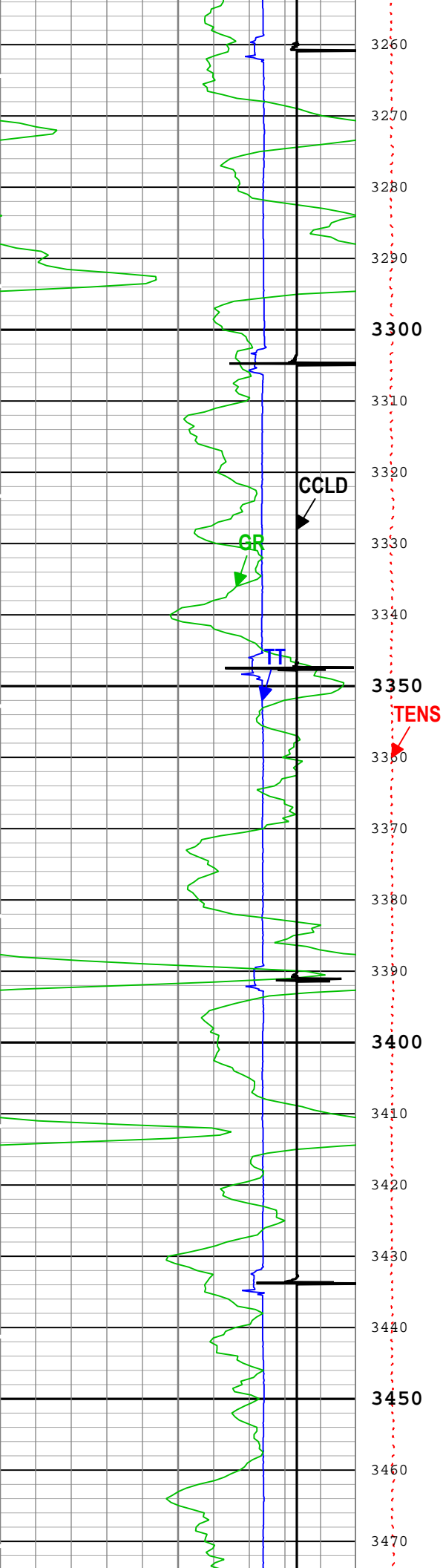


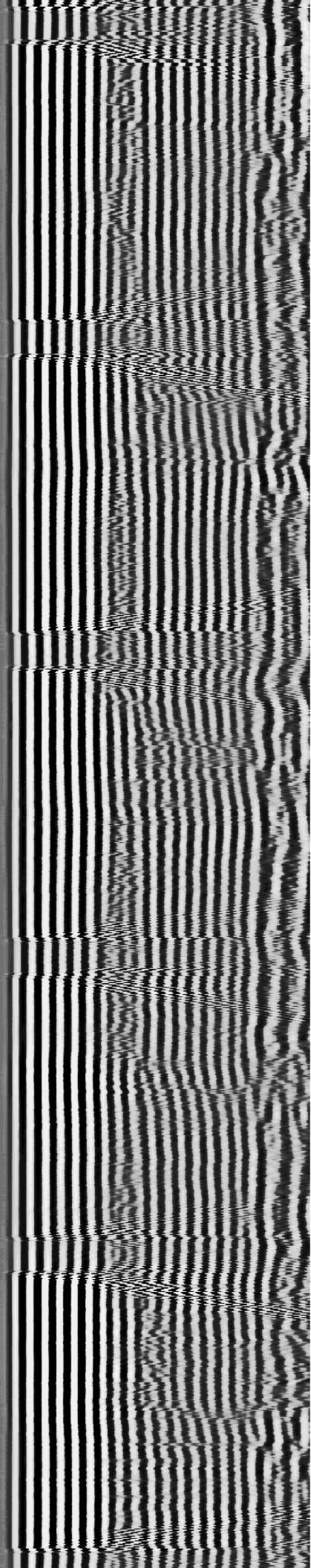
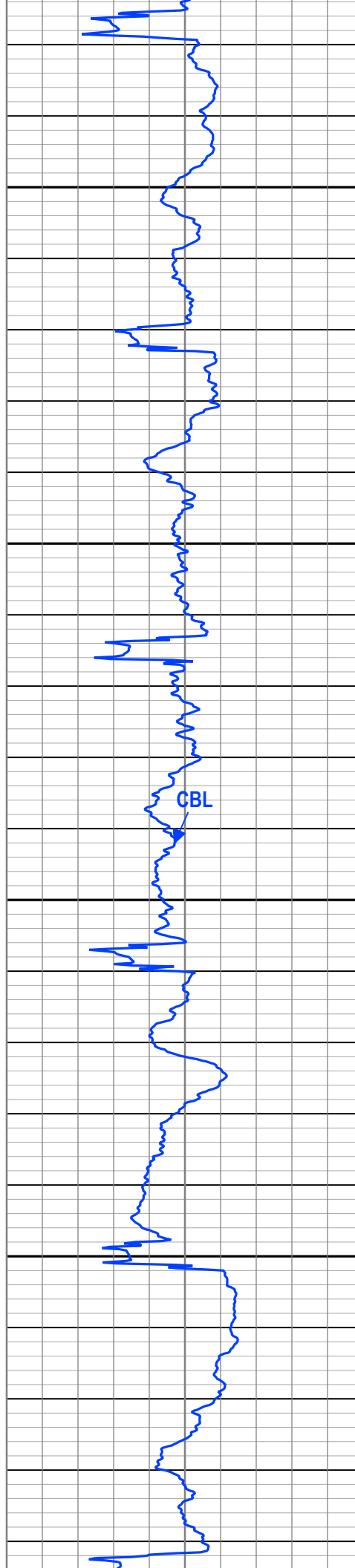
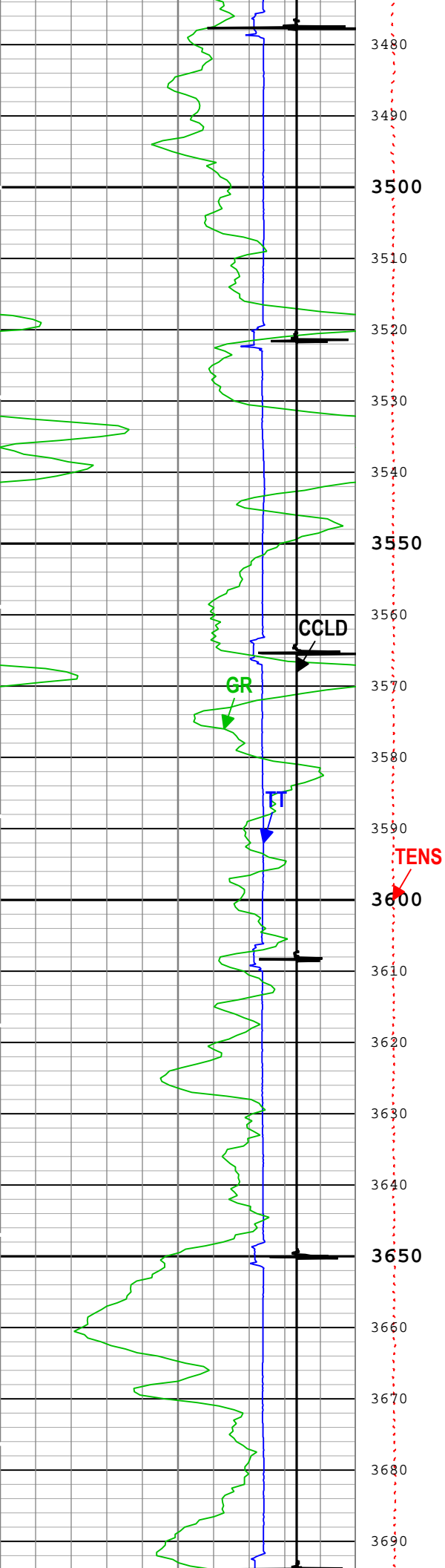


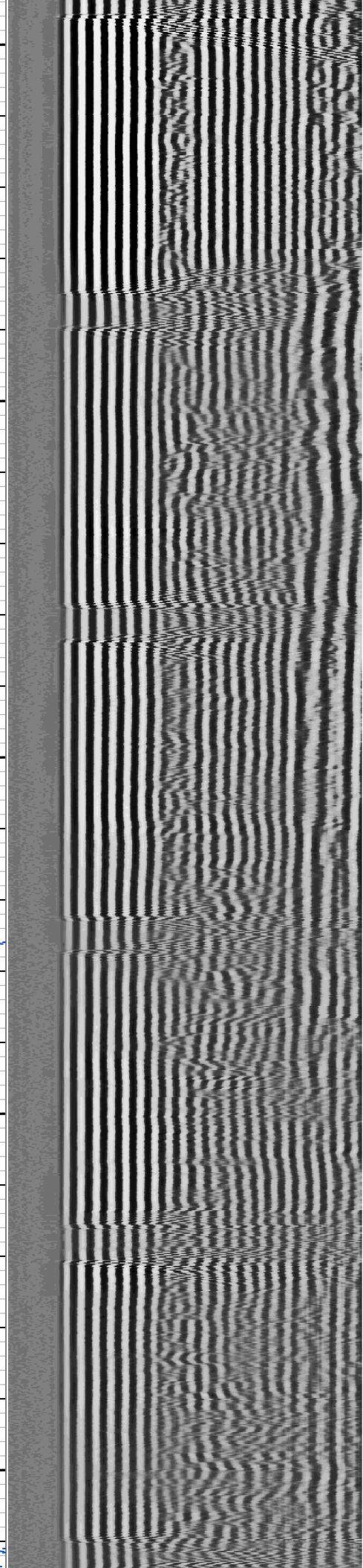
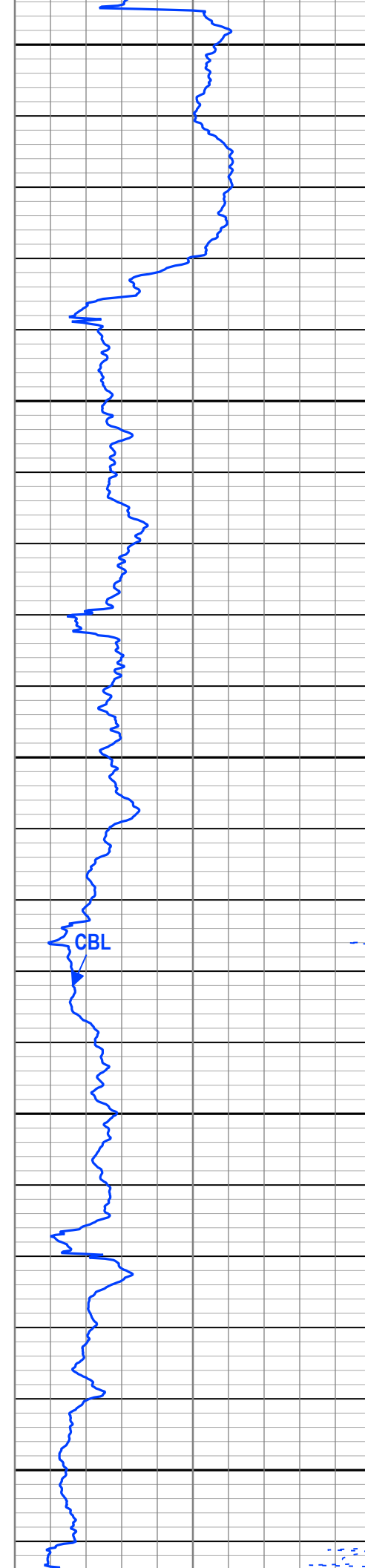
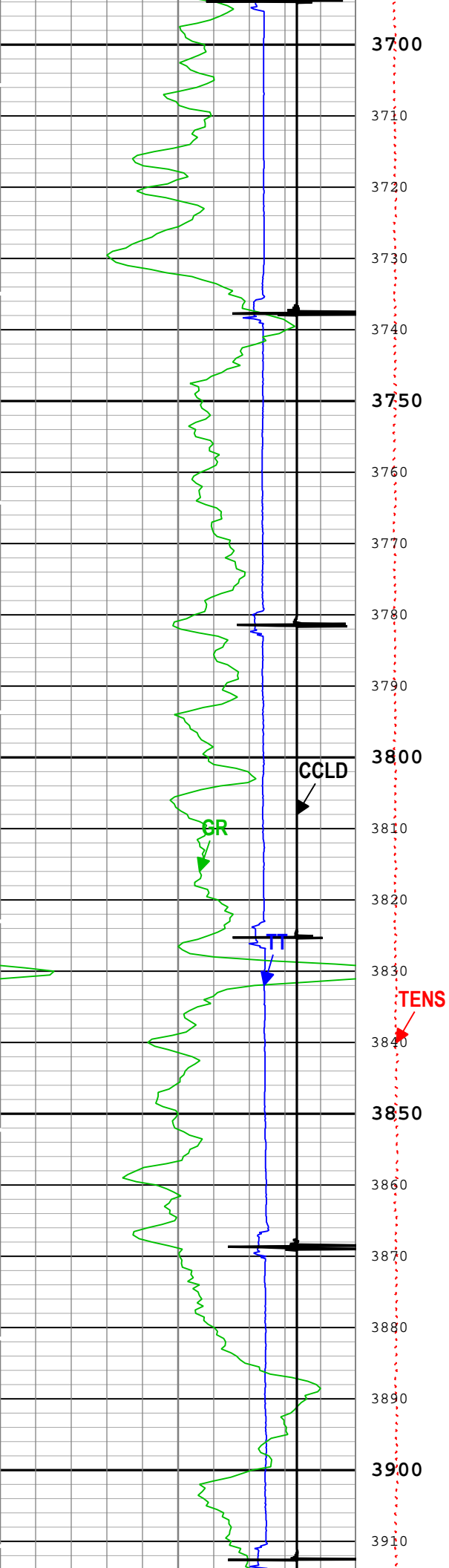




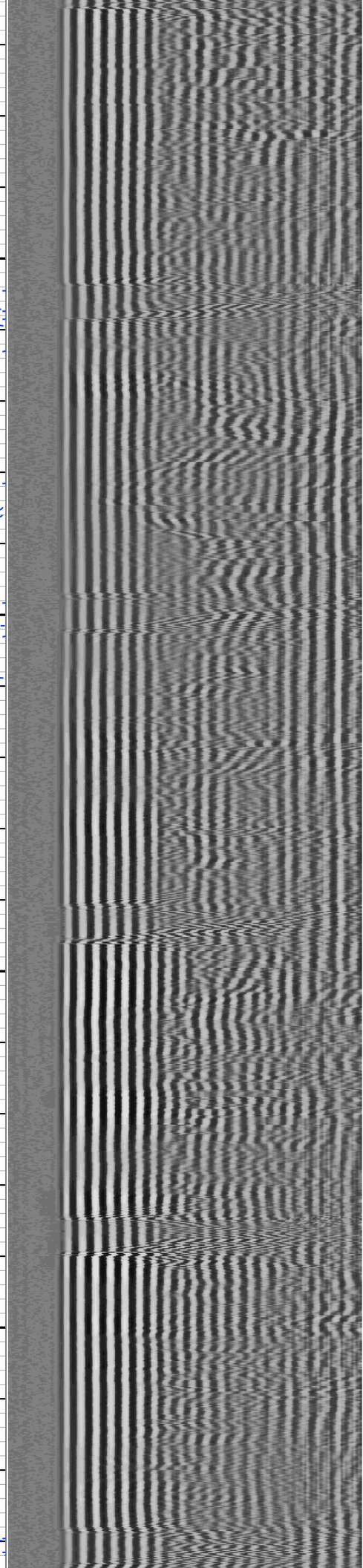
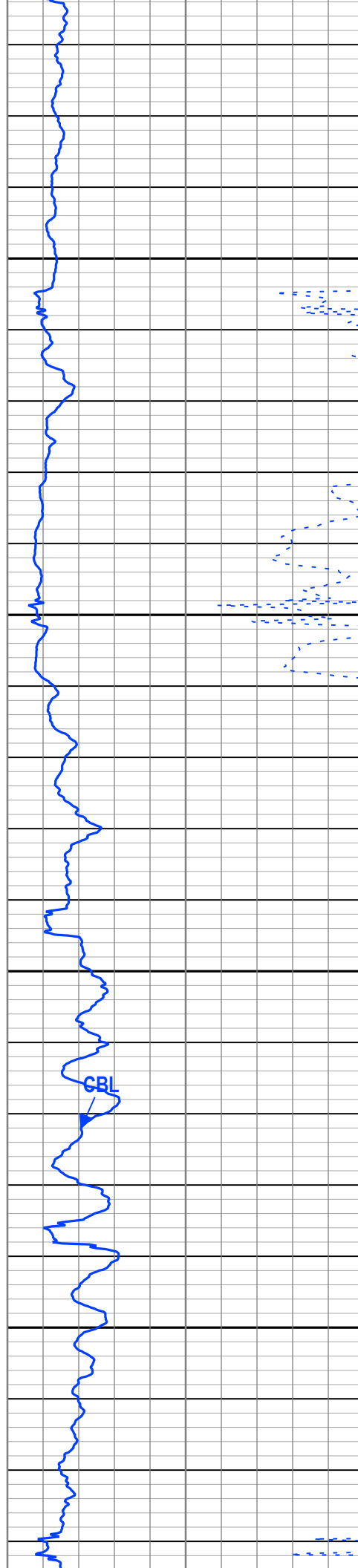
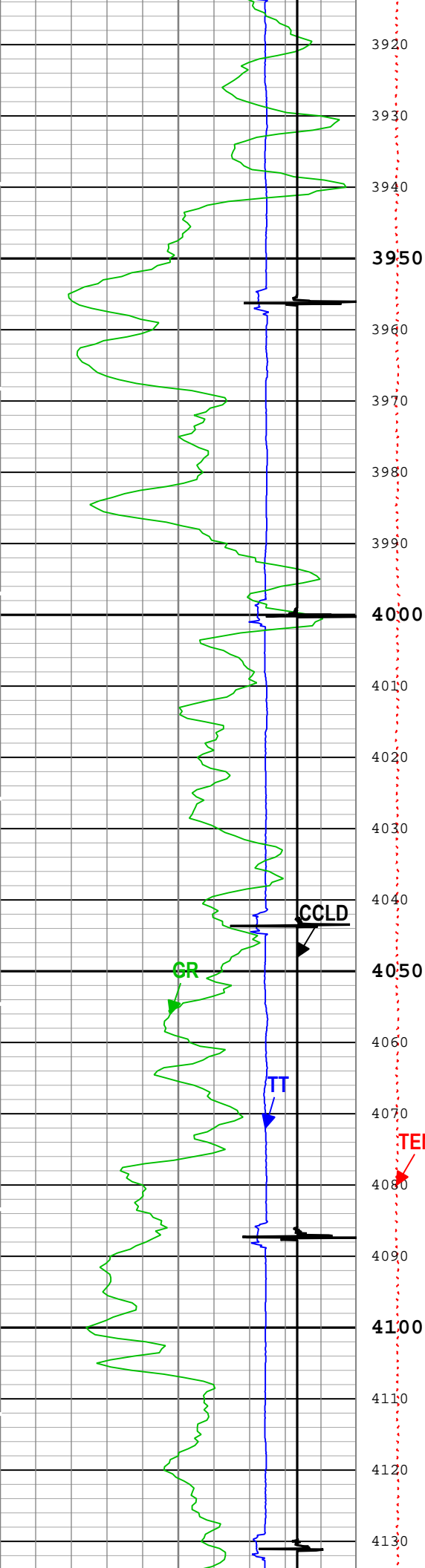


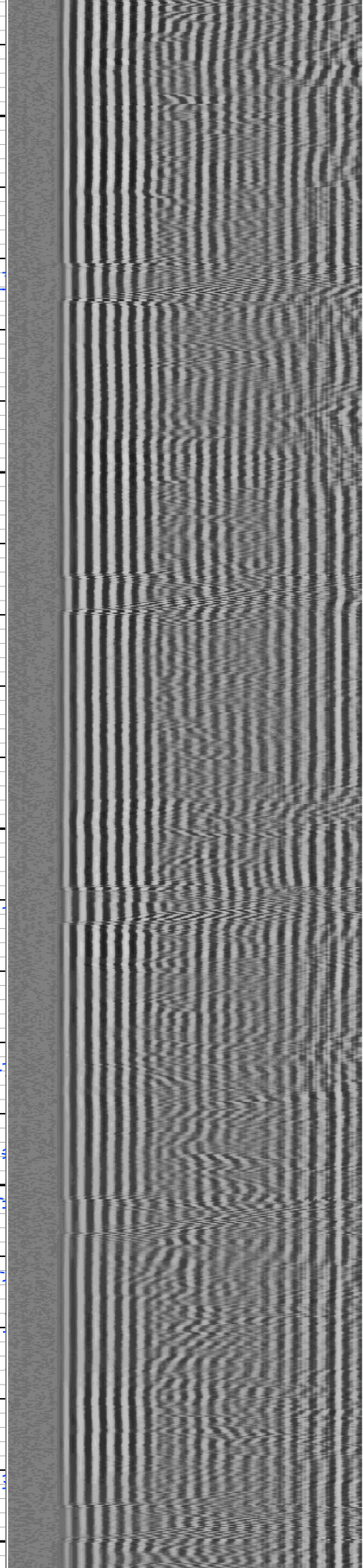
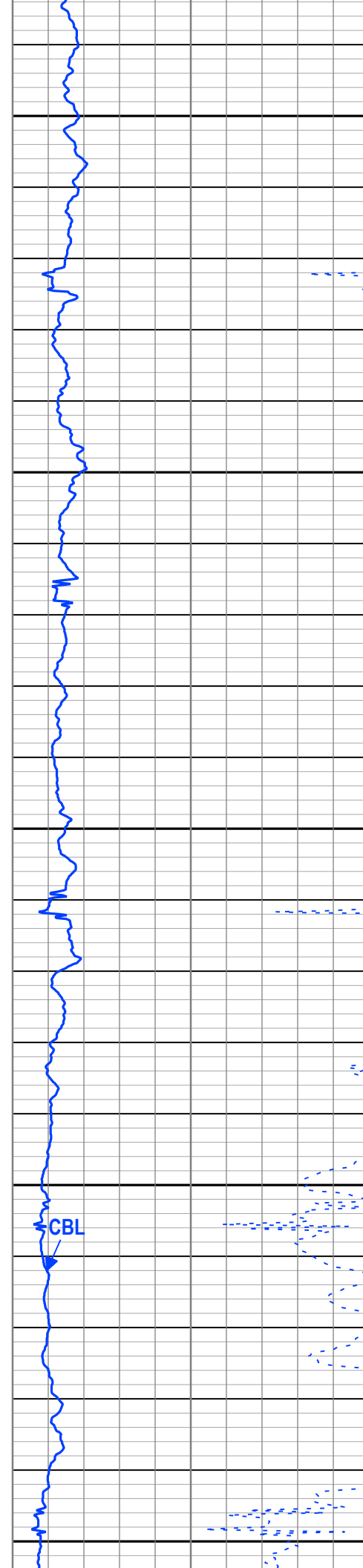
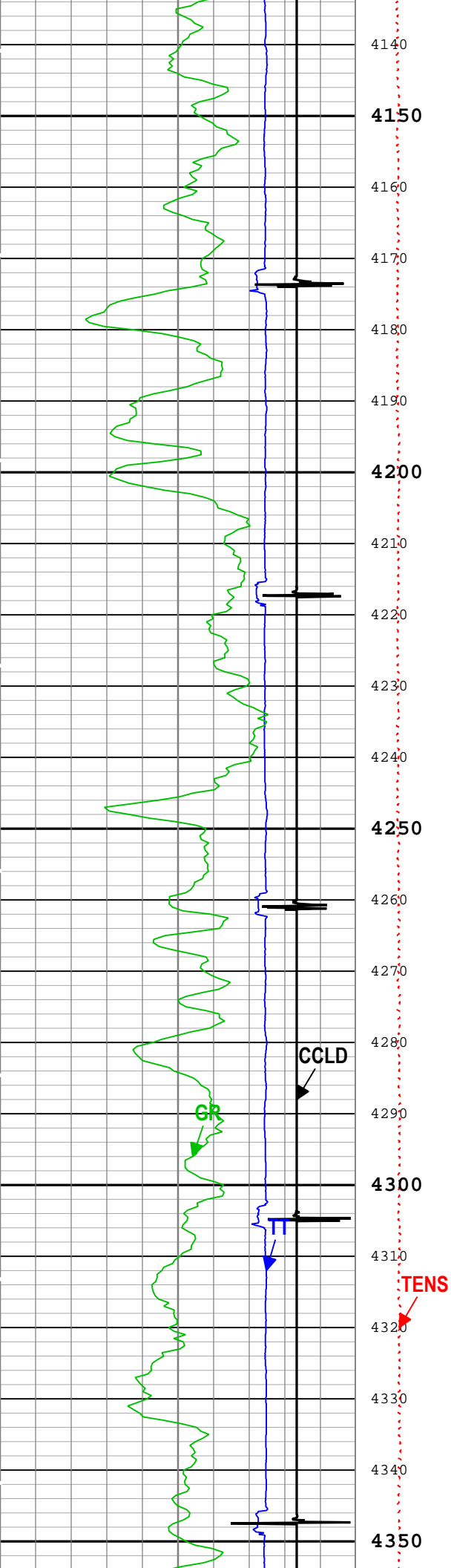


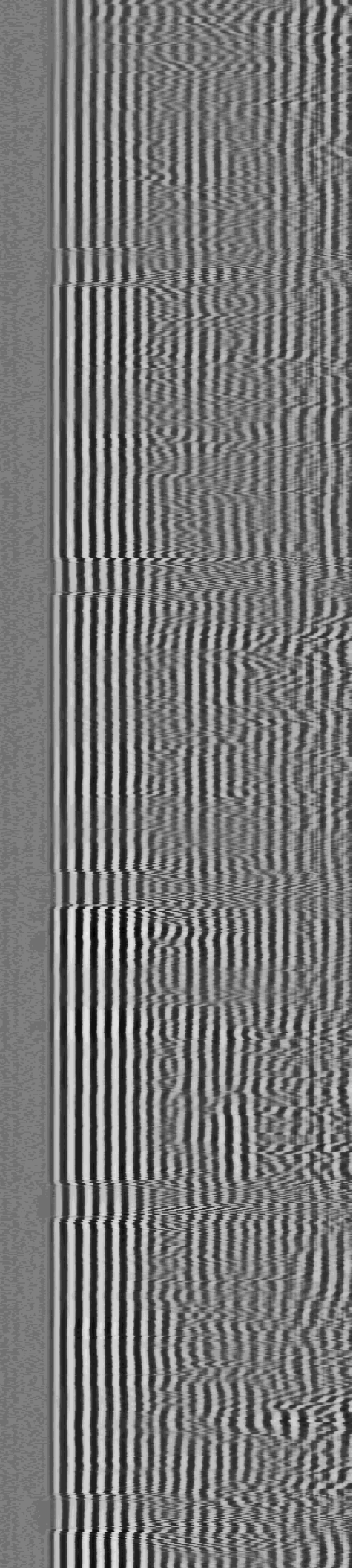
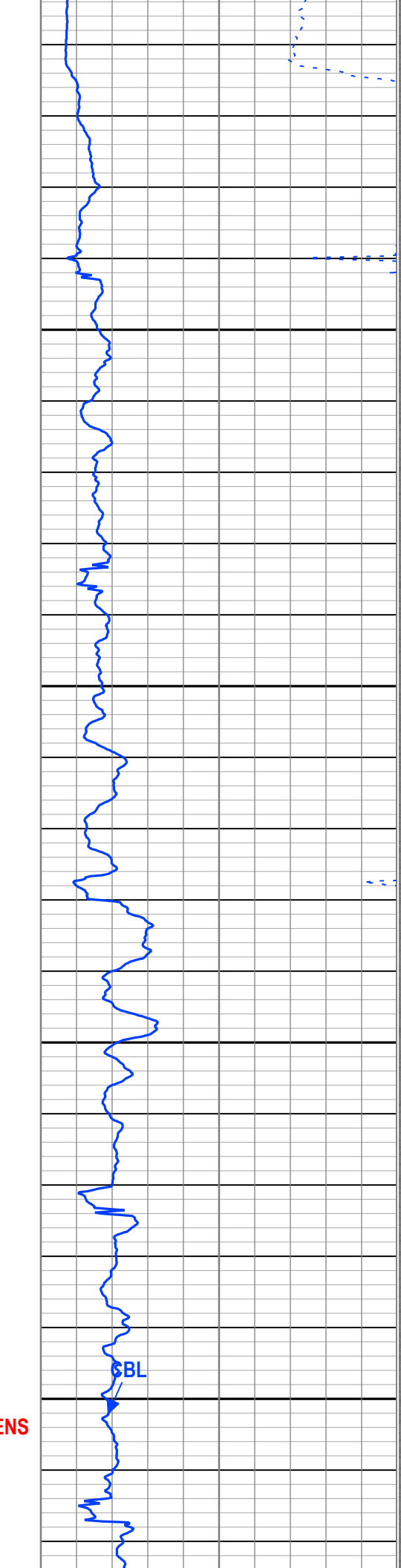
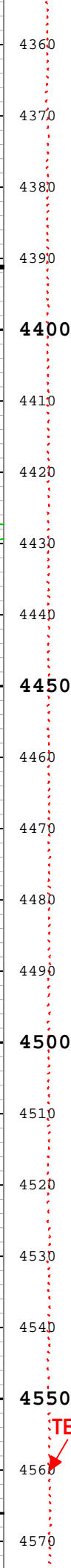
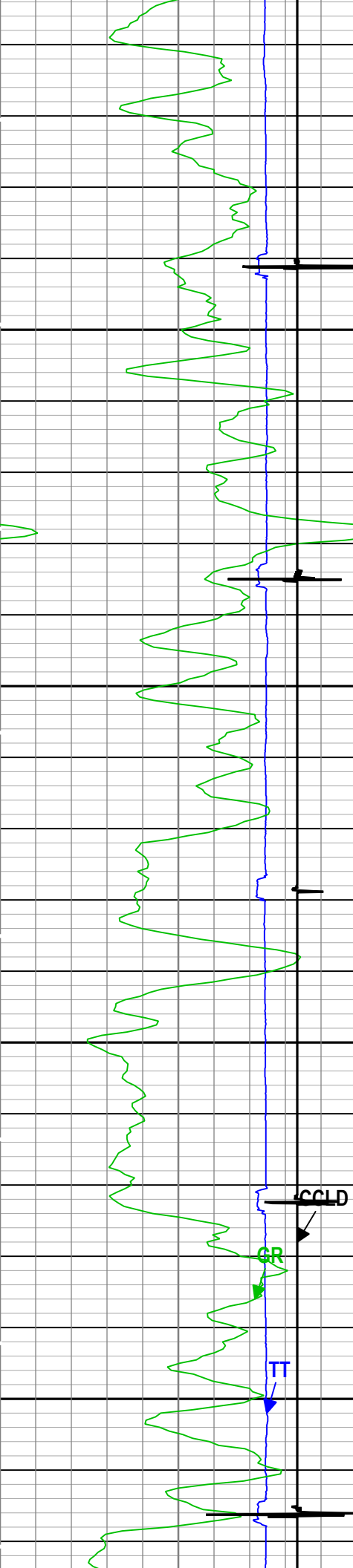




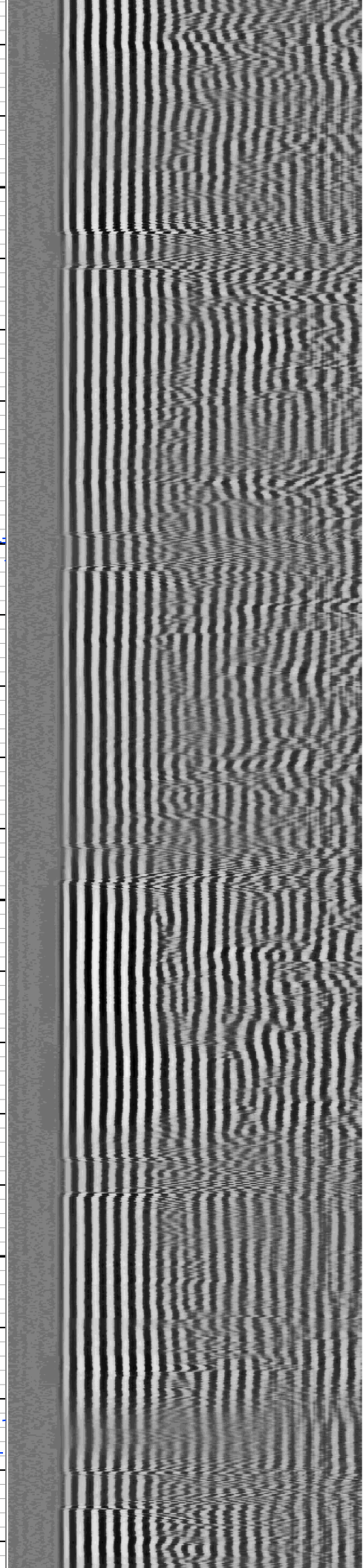
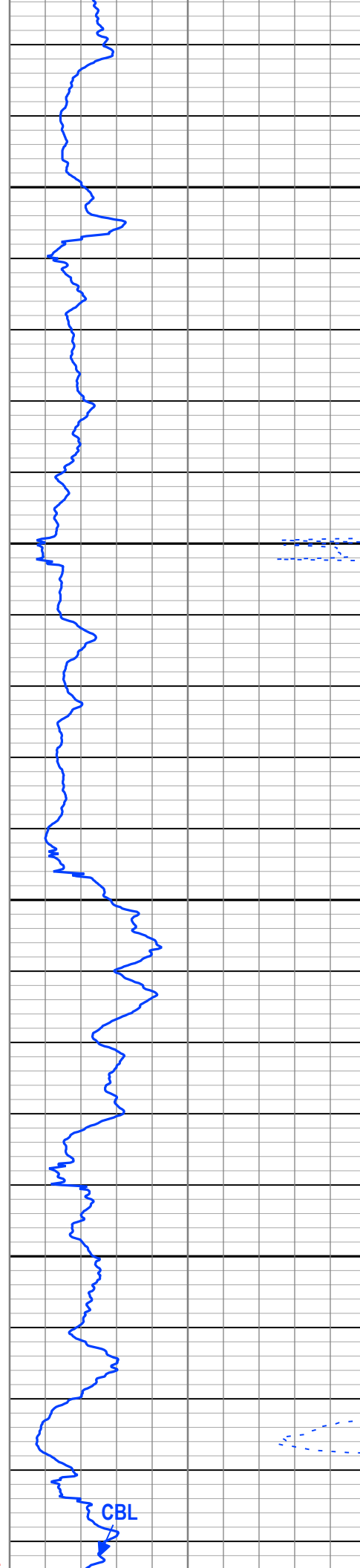
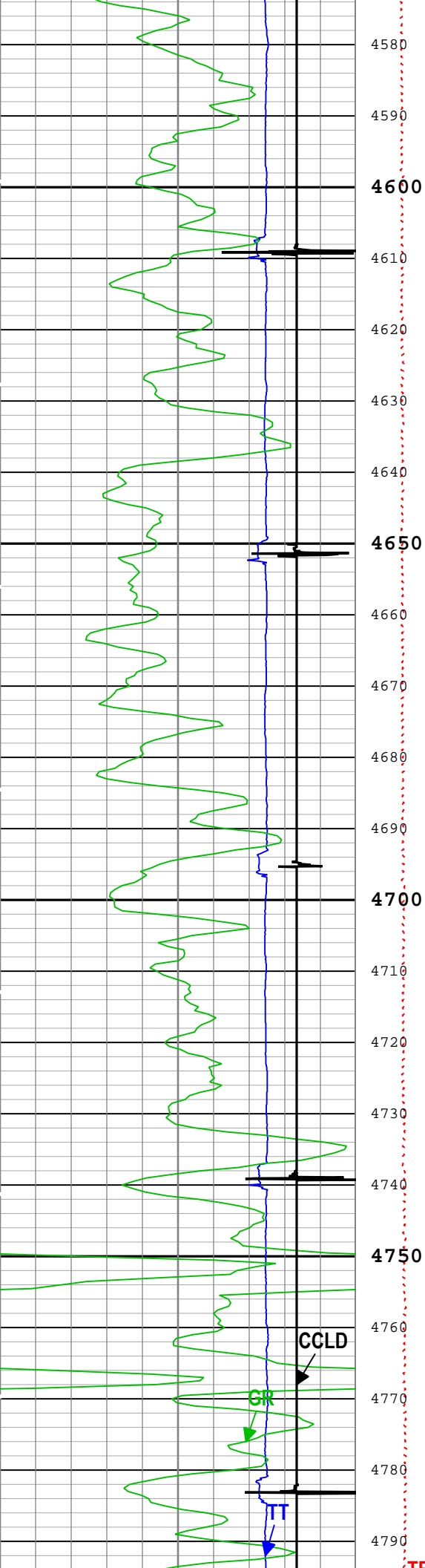


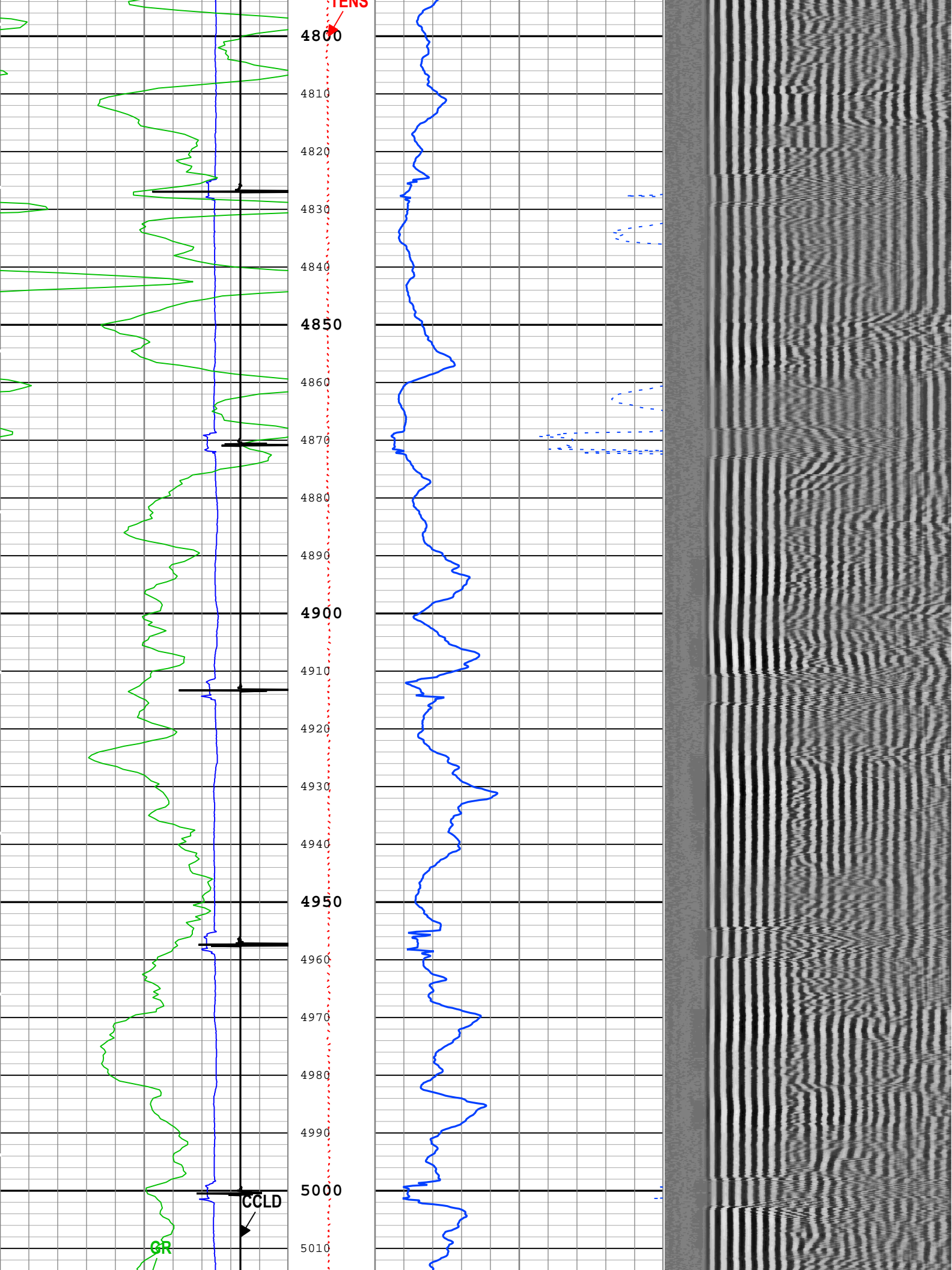




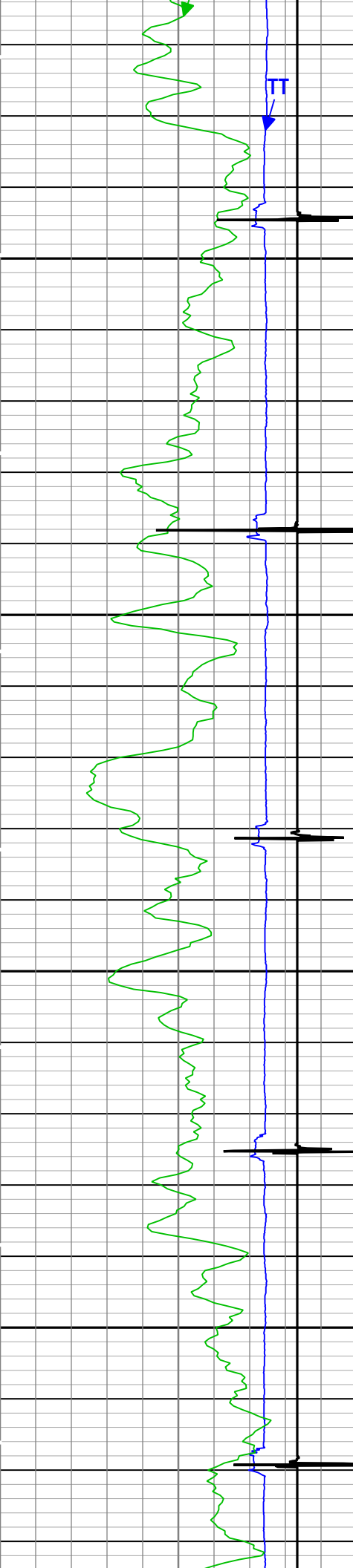












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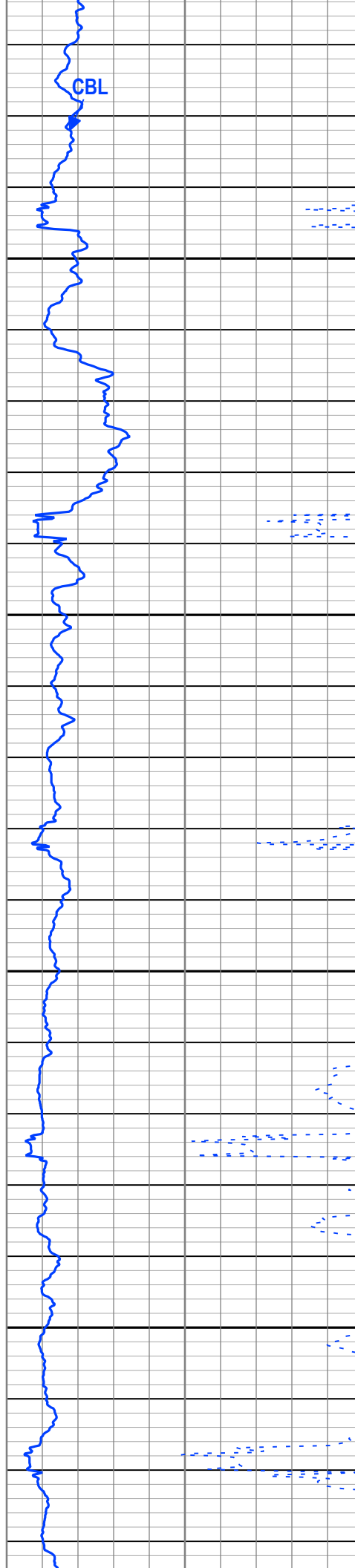
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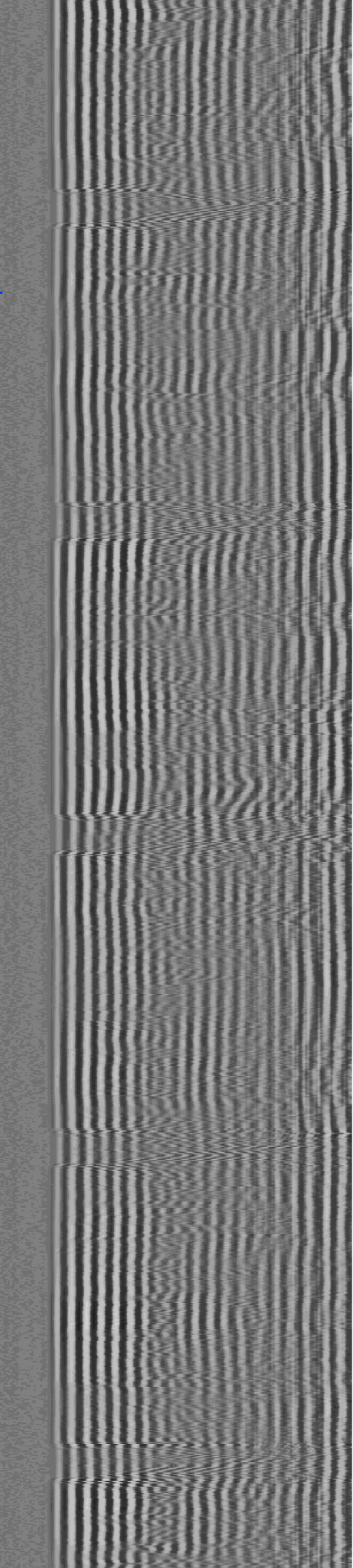
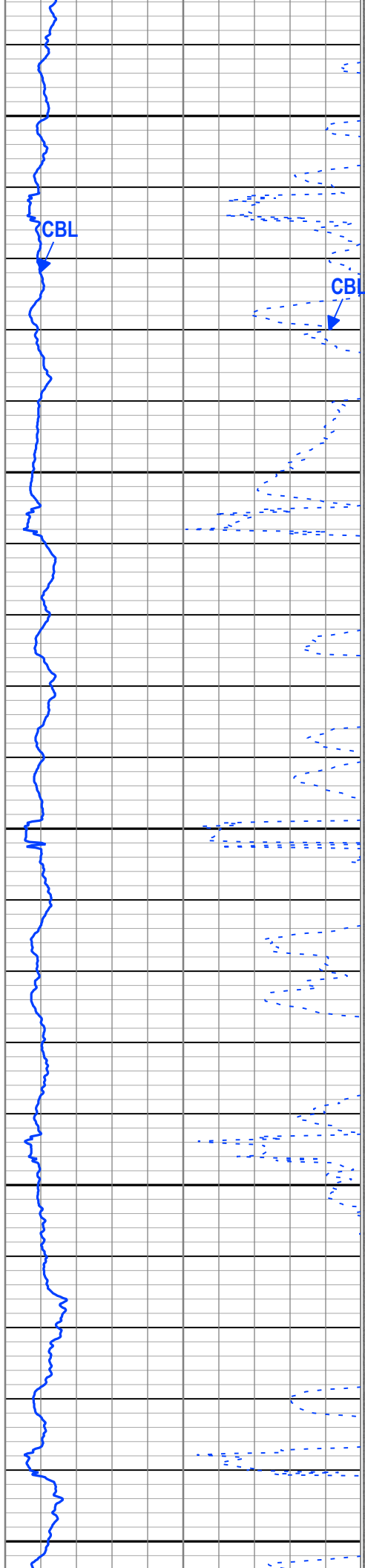
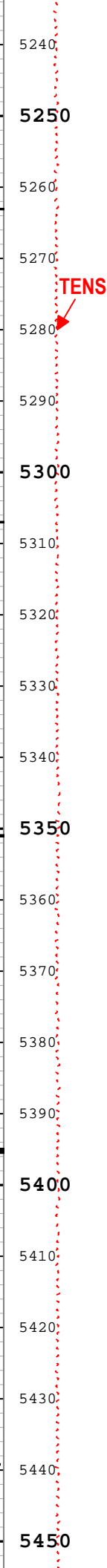
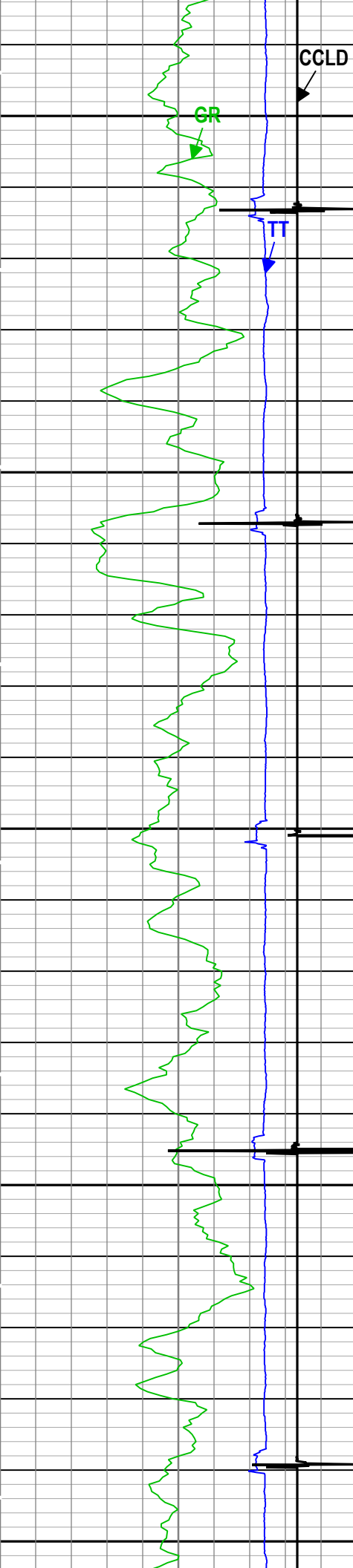
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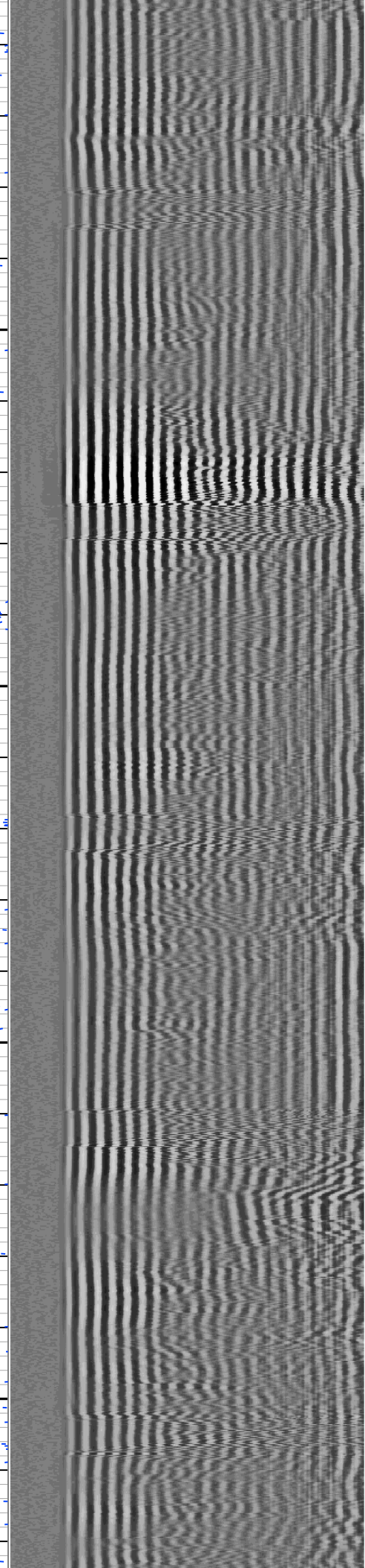
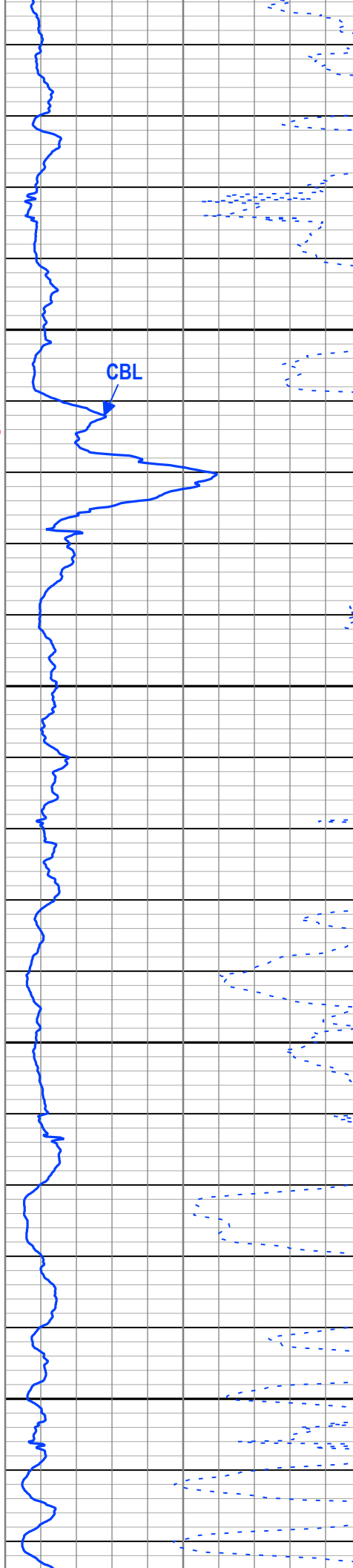
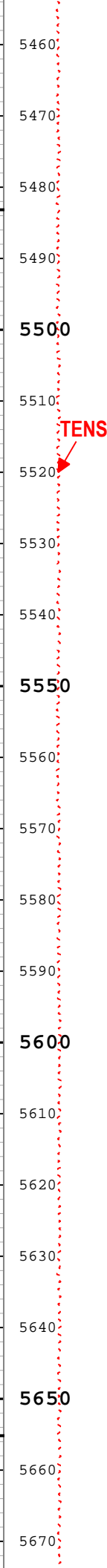
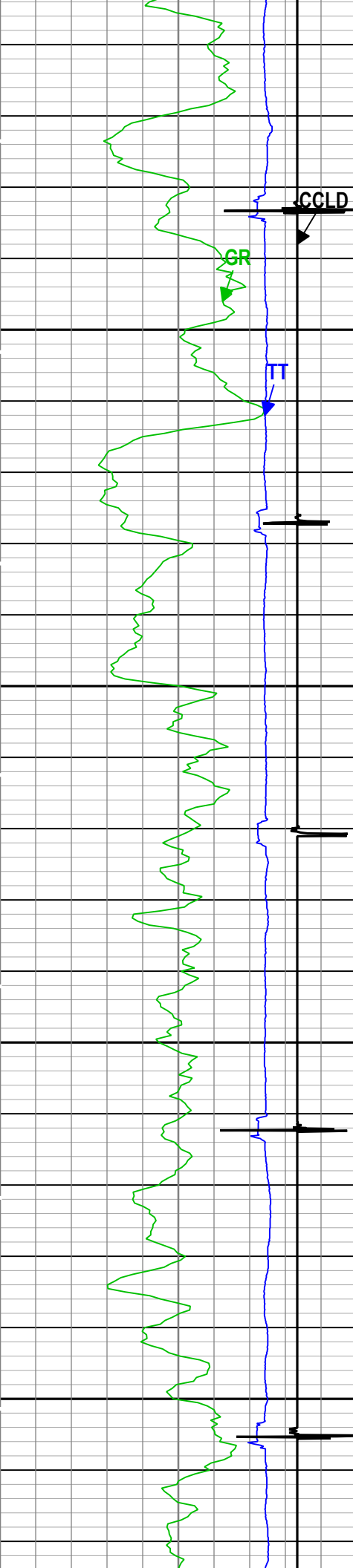
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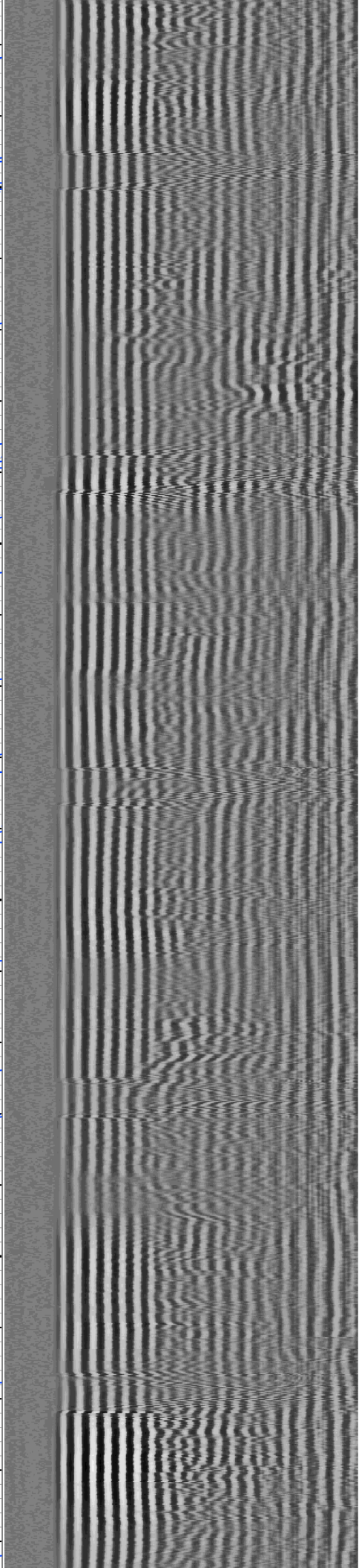
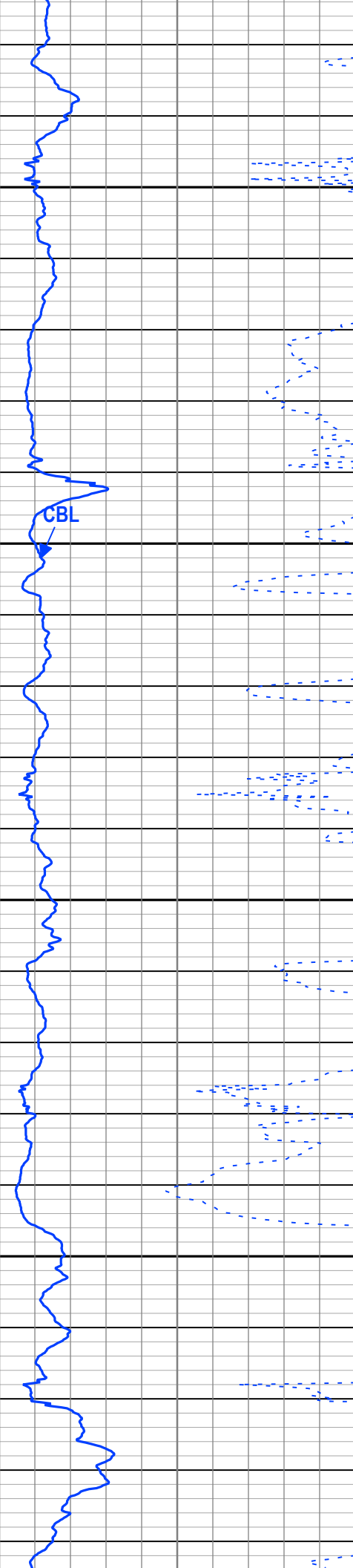
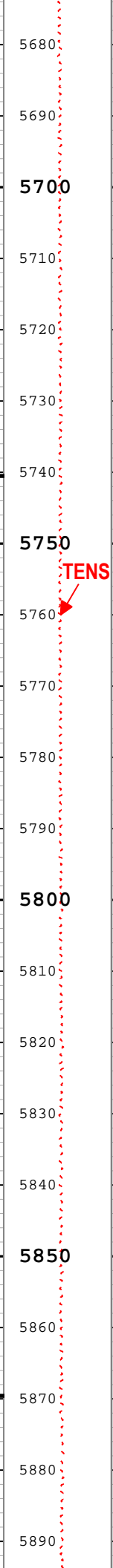
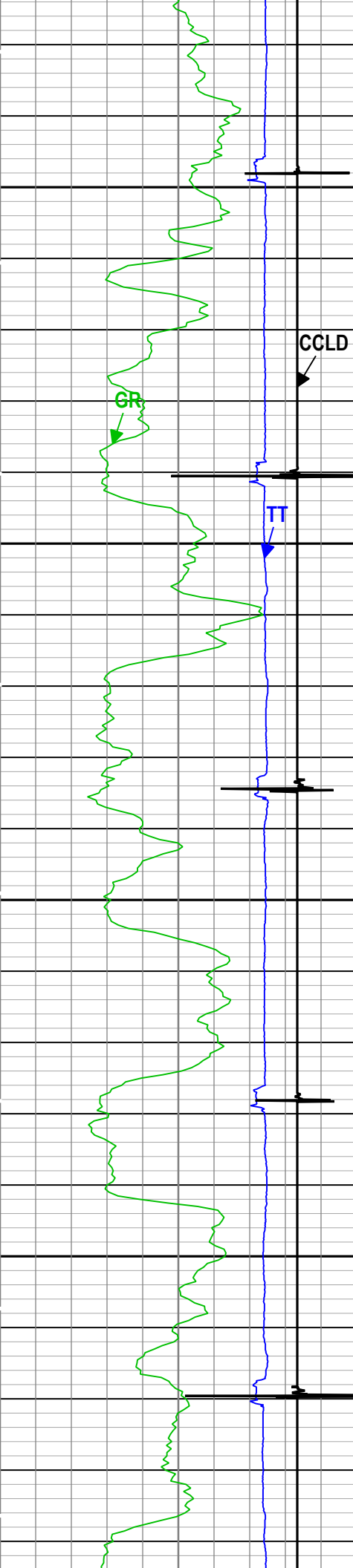


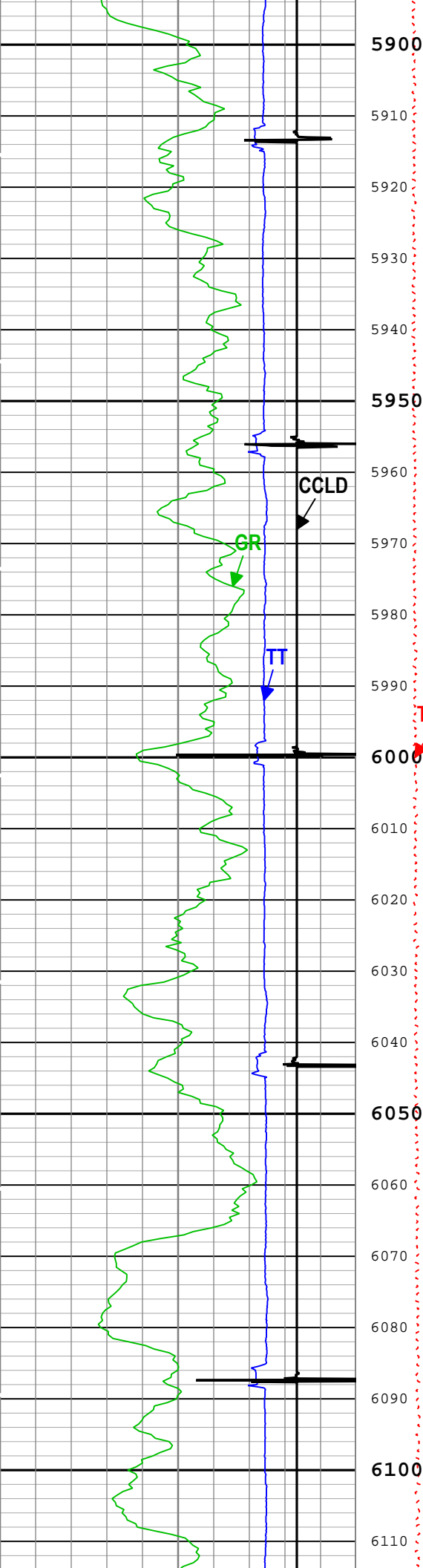
CBL











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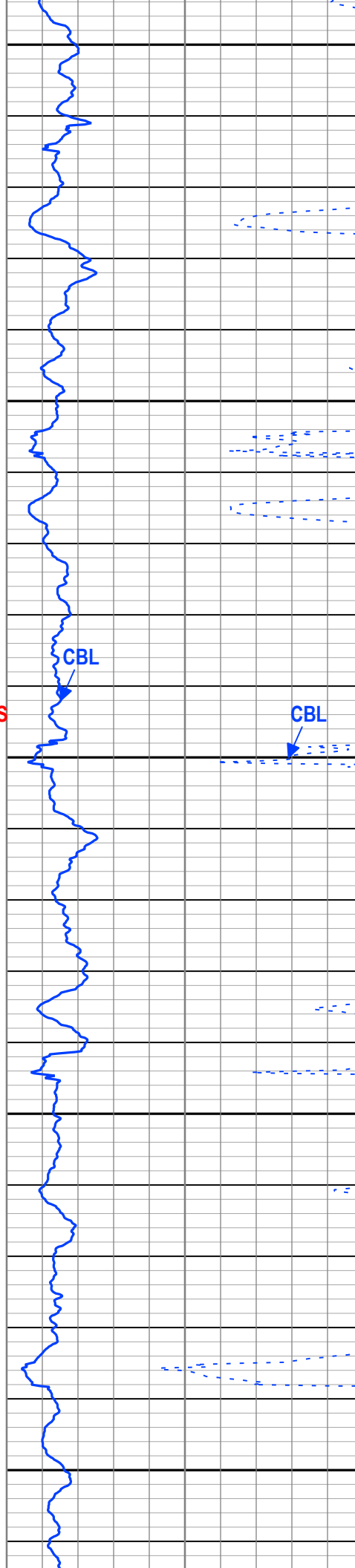
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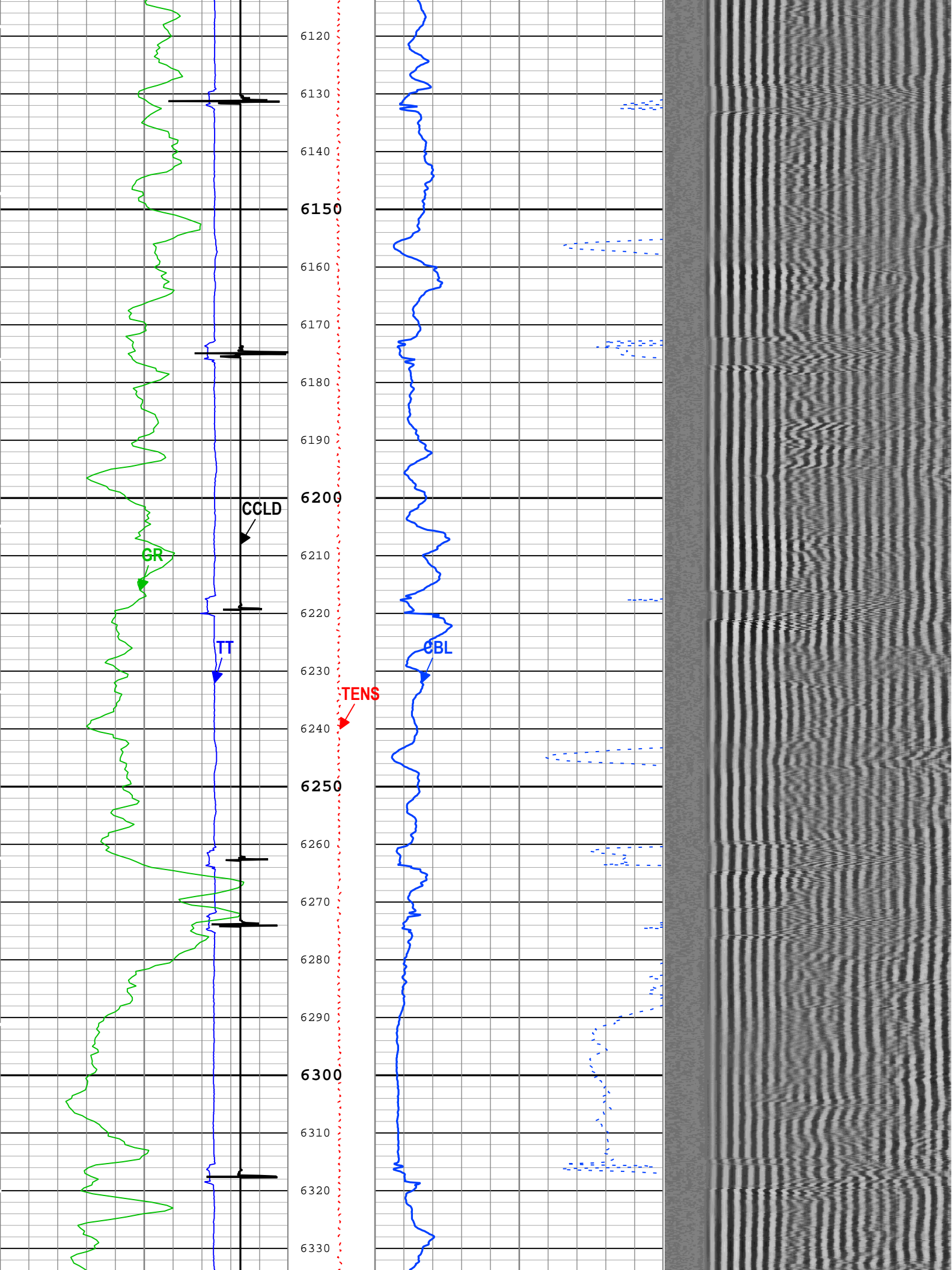
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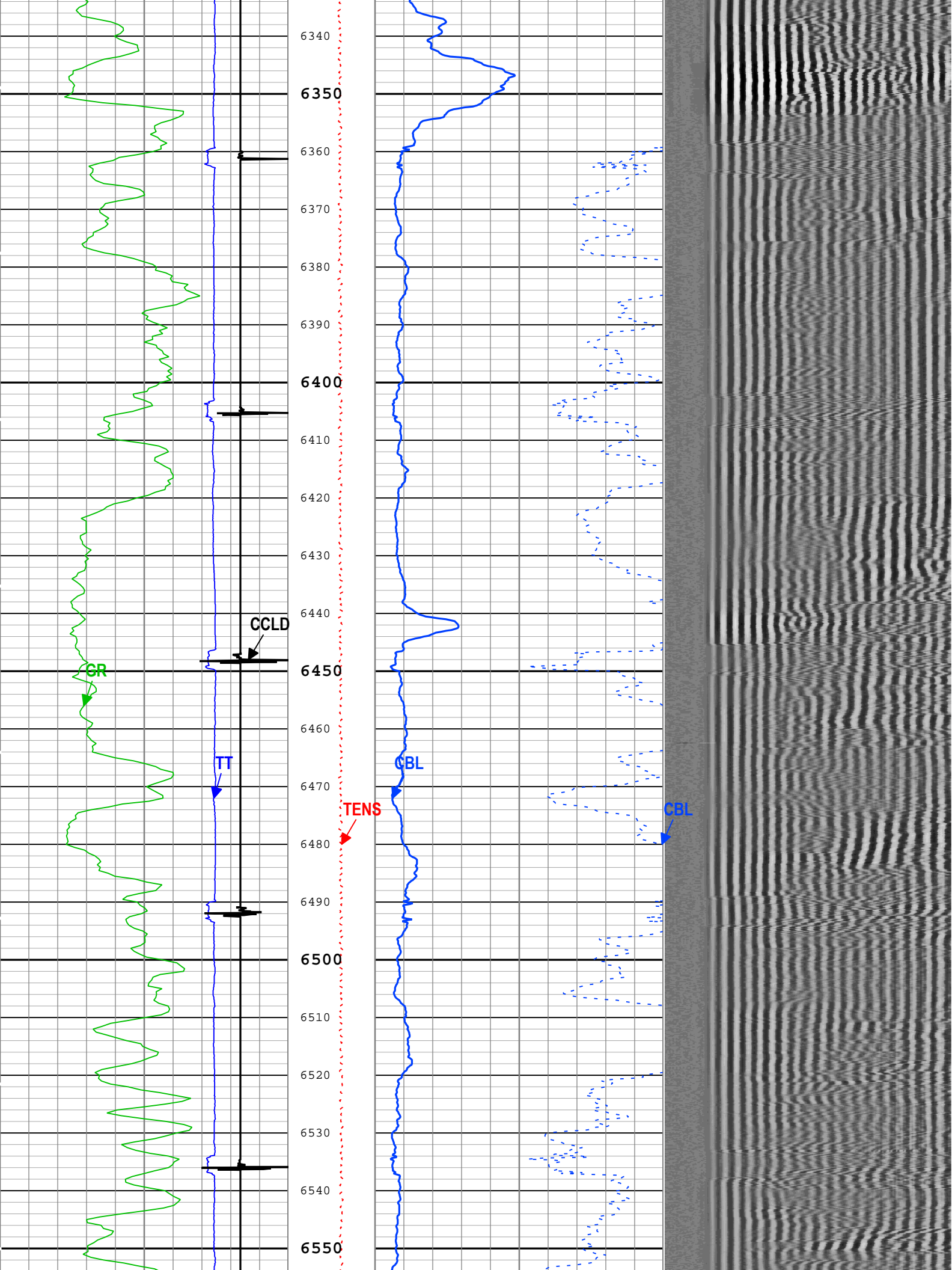


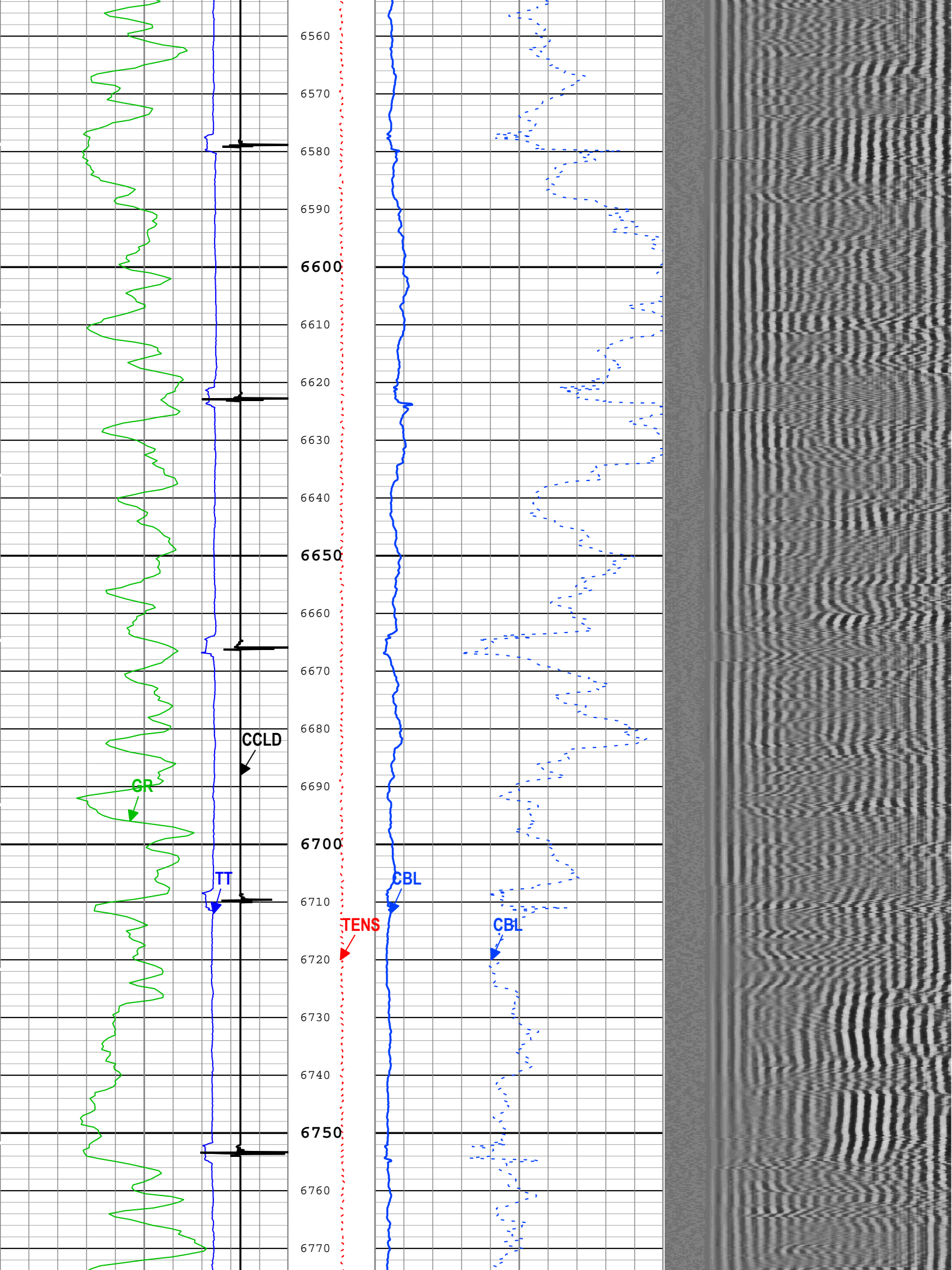
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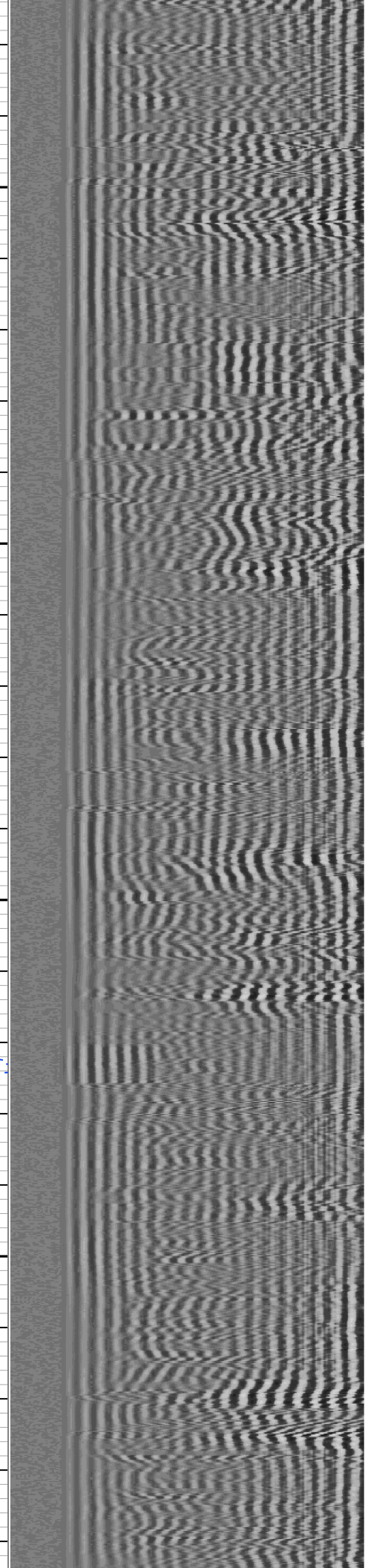
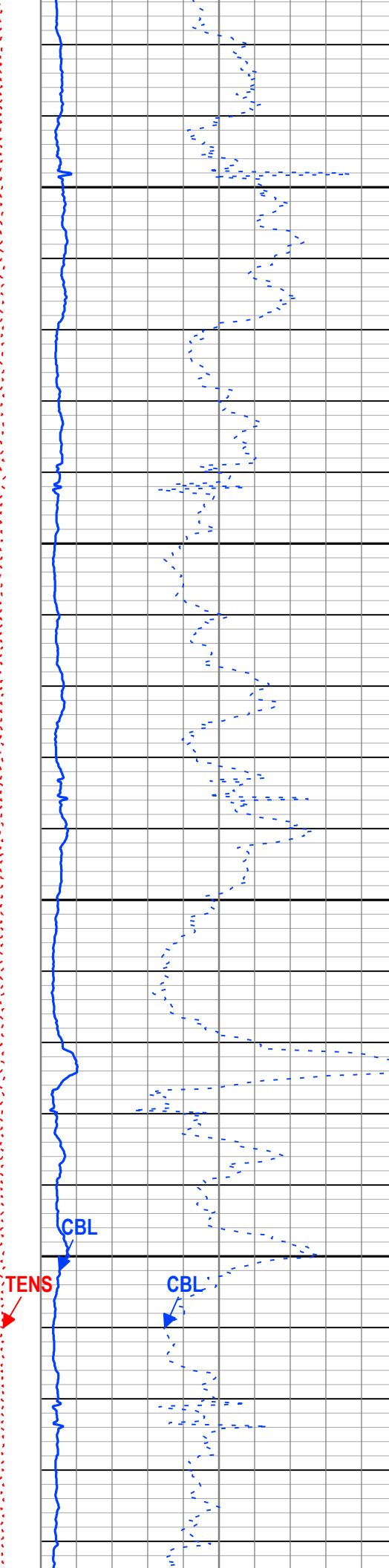
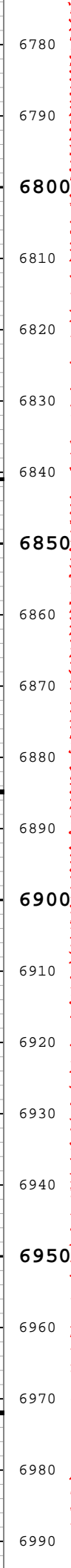
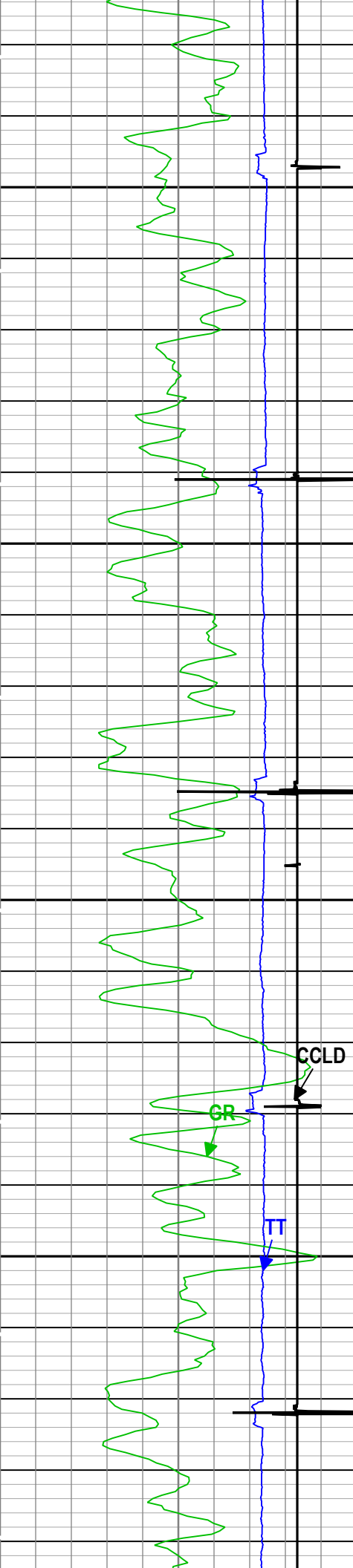


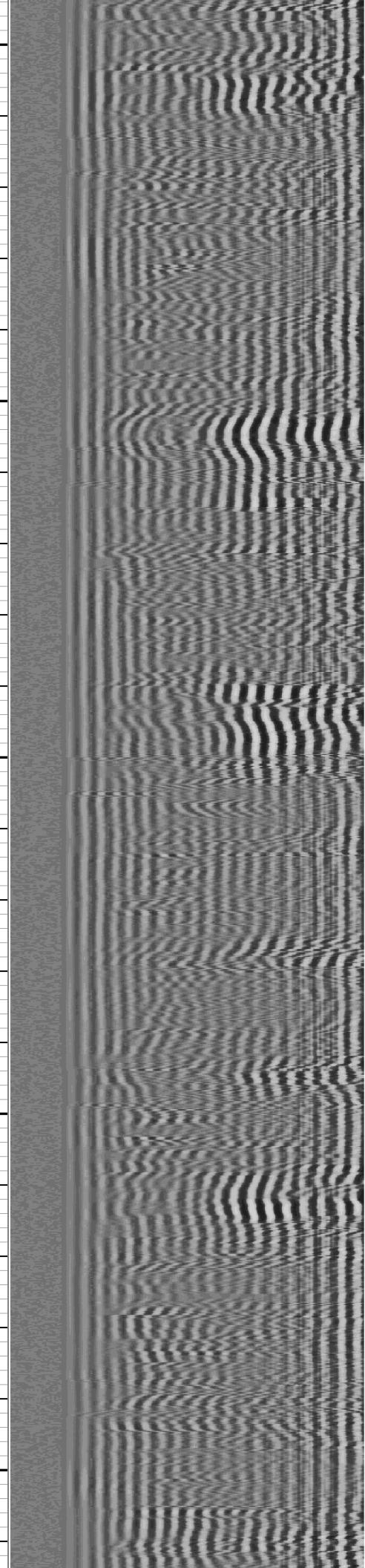
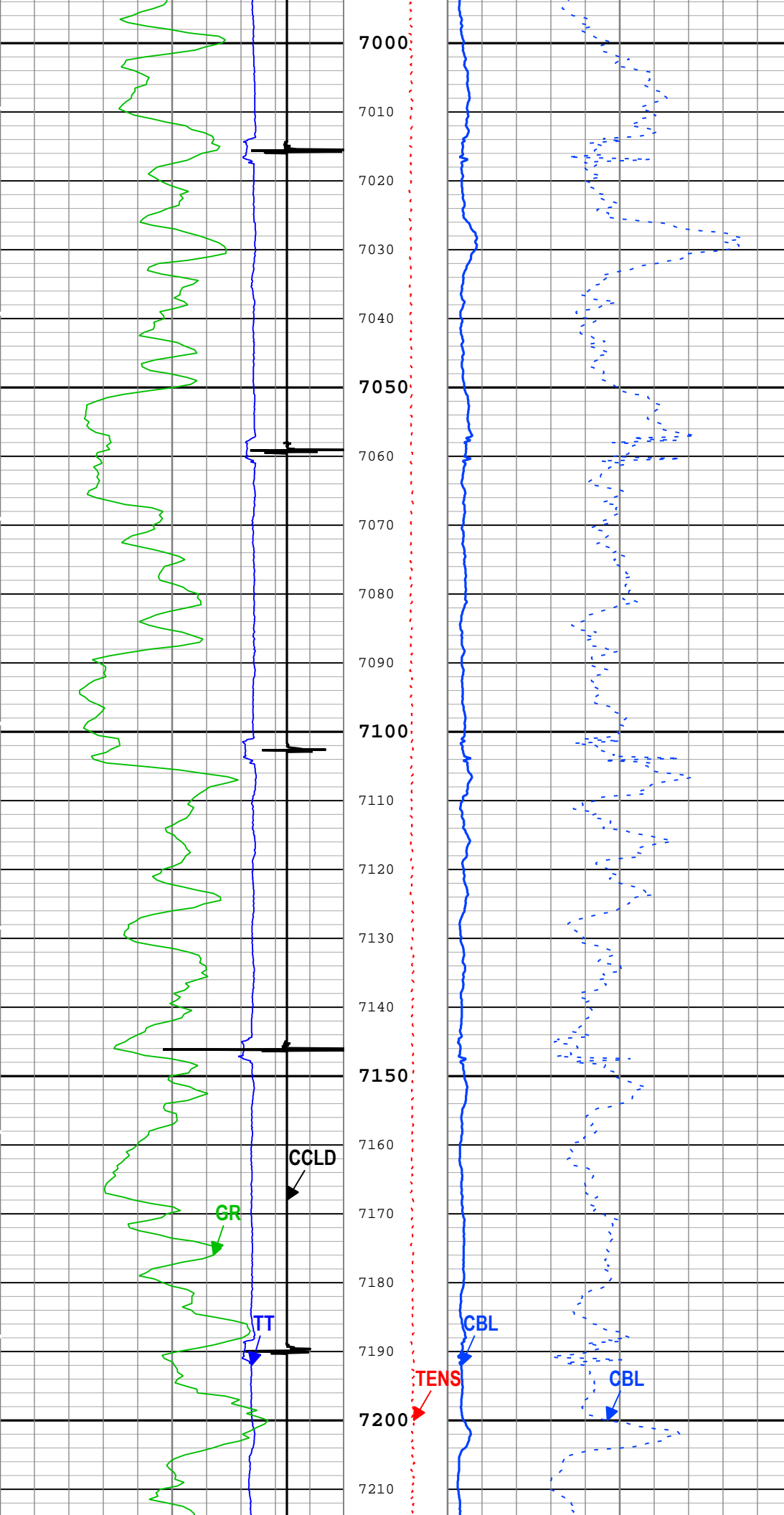


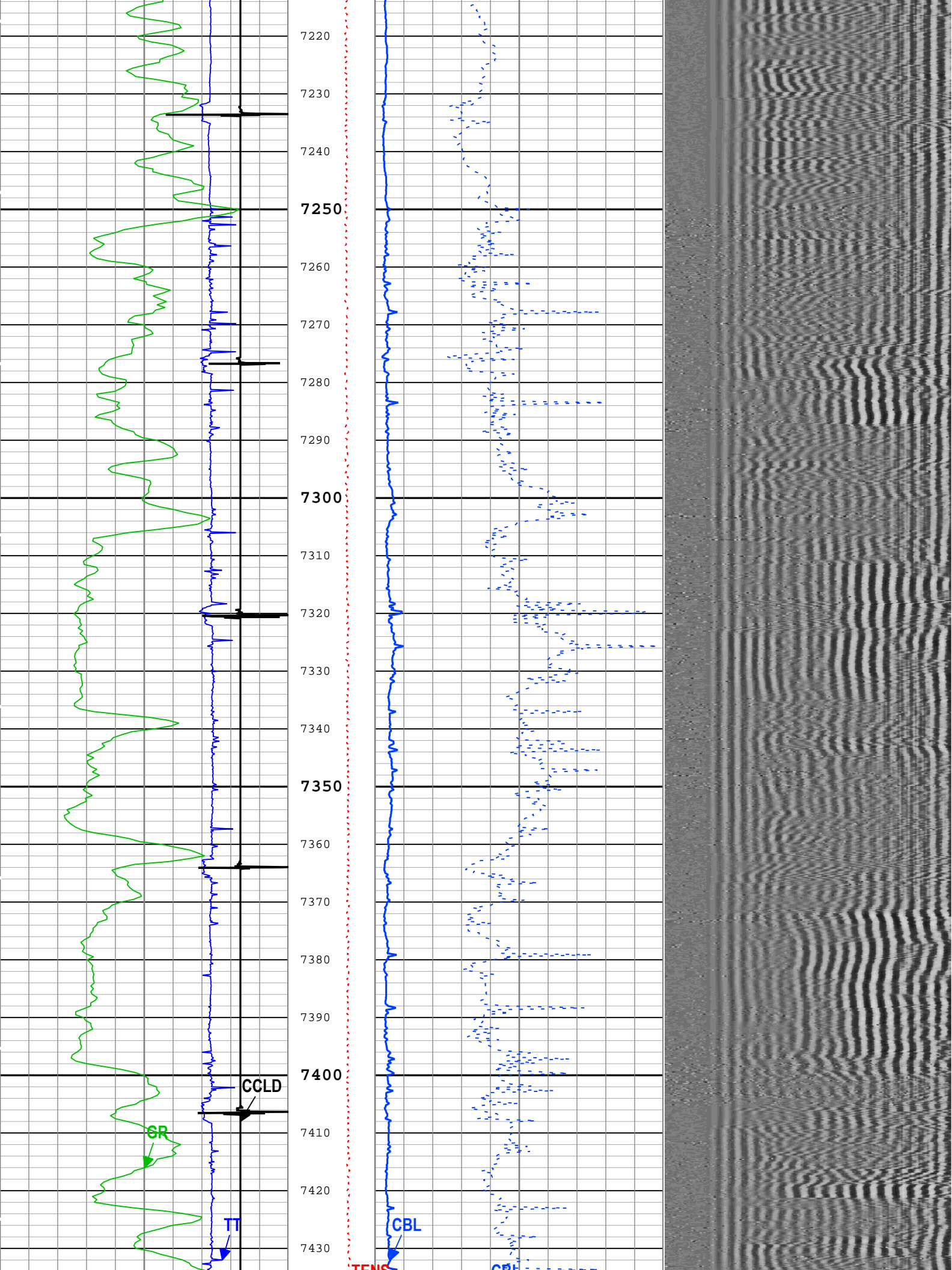




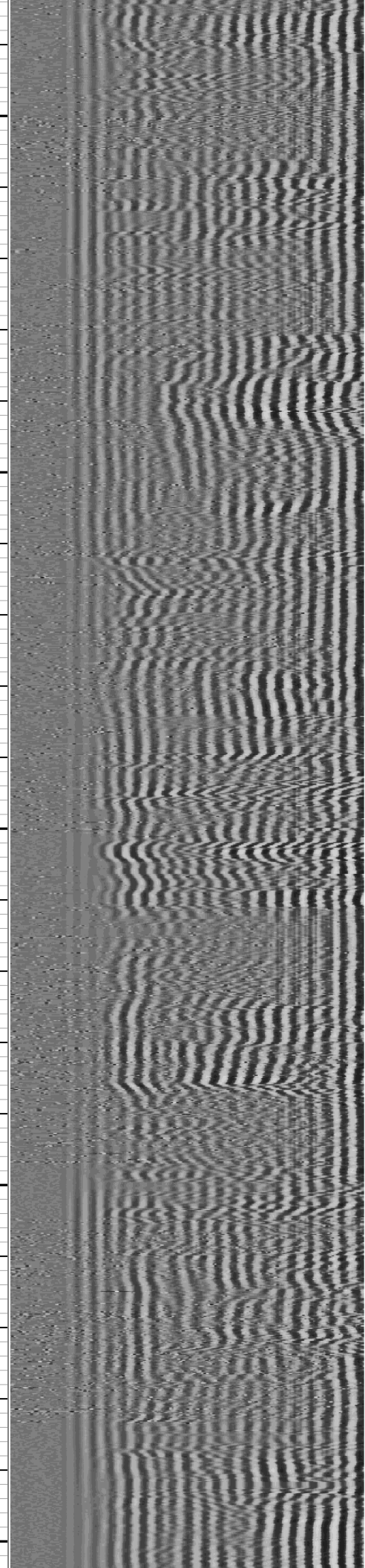
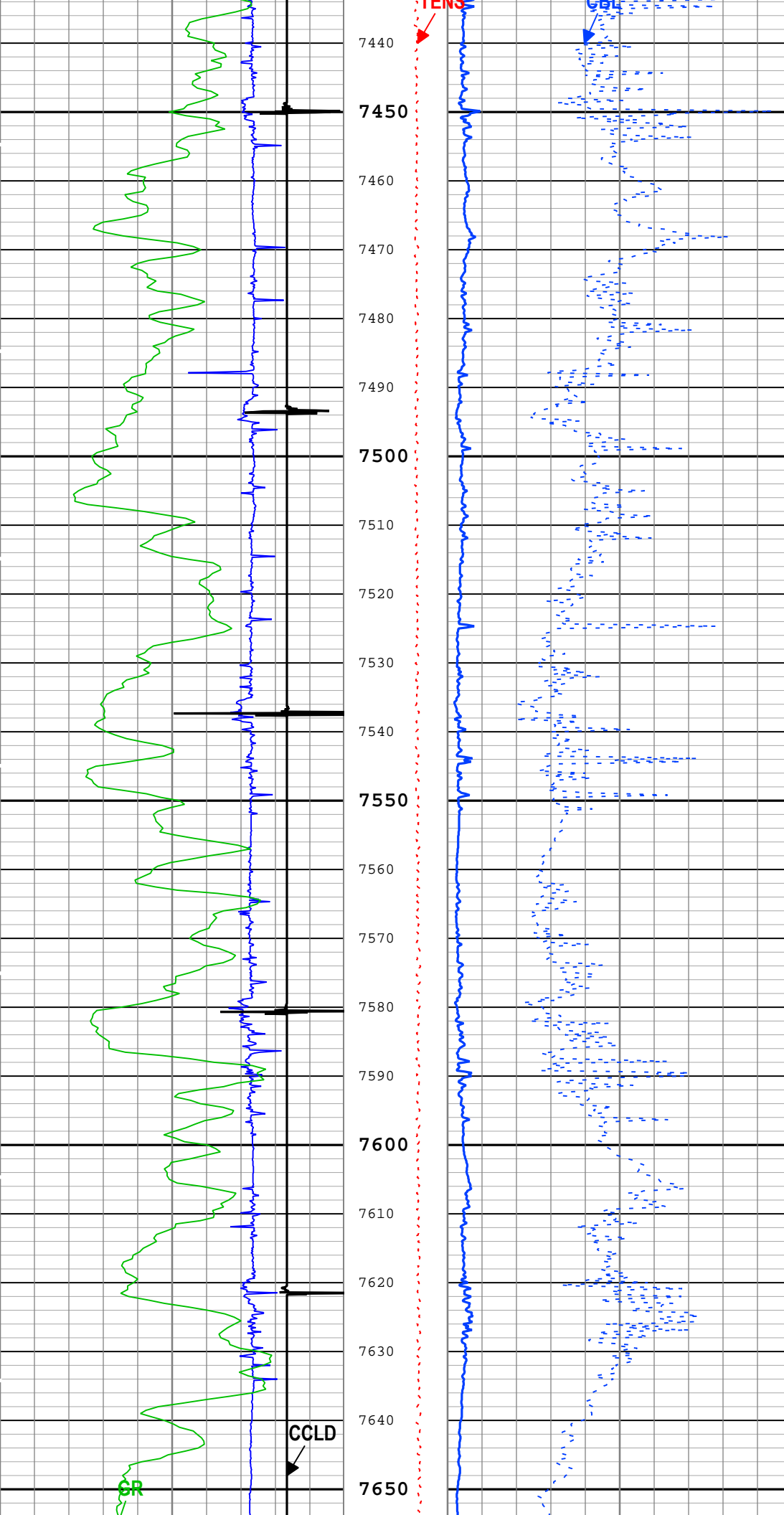


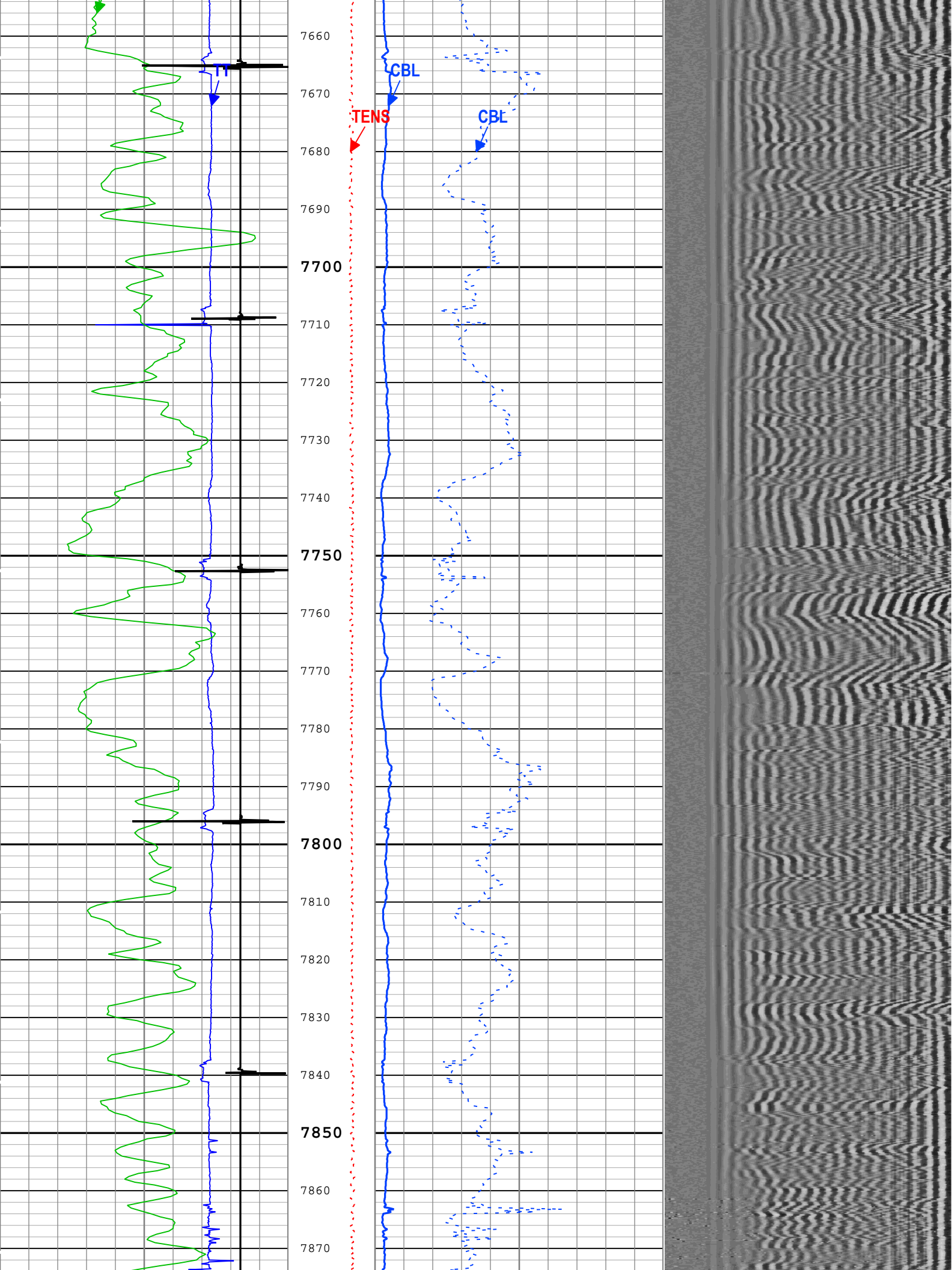




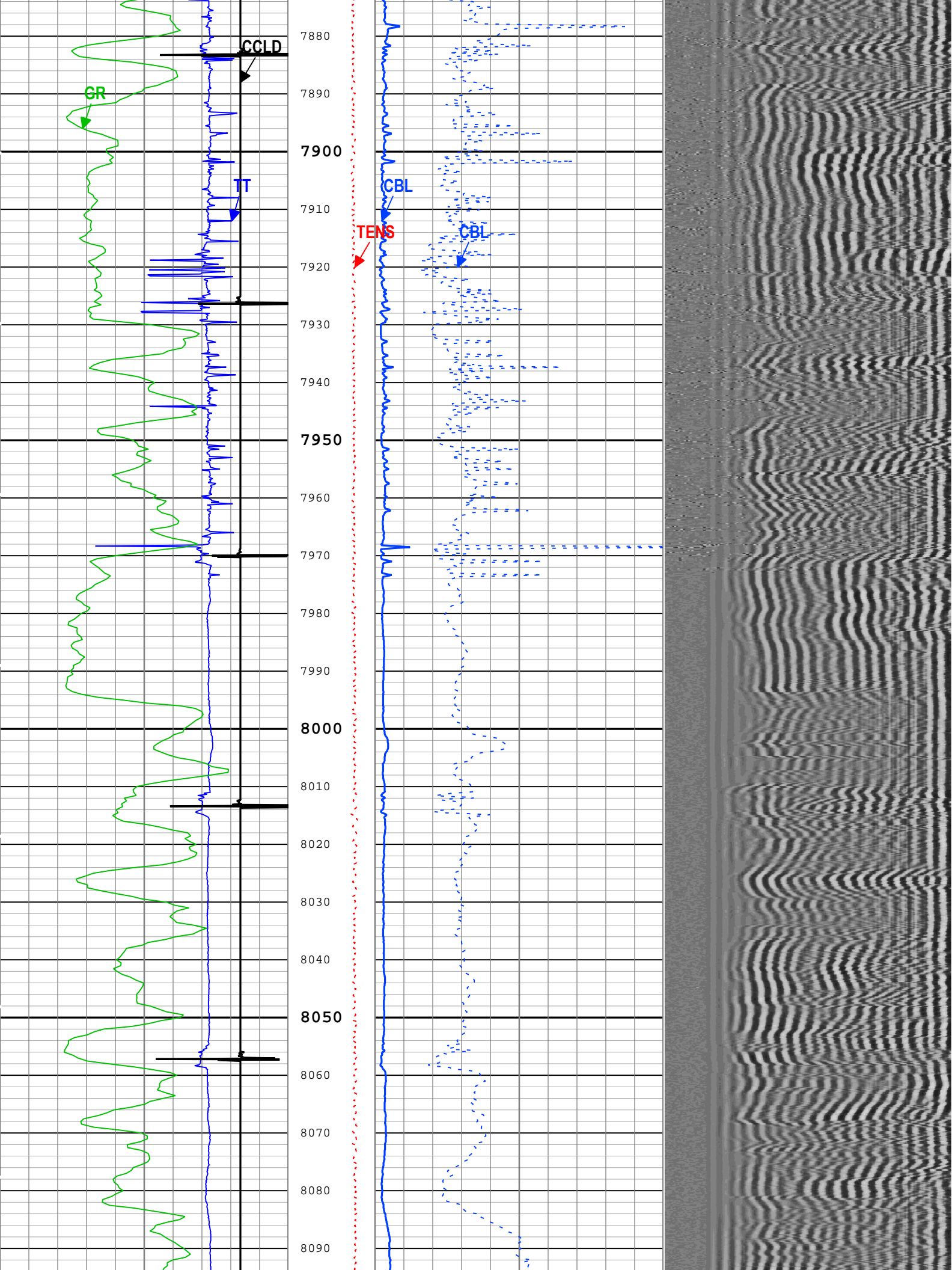


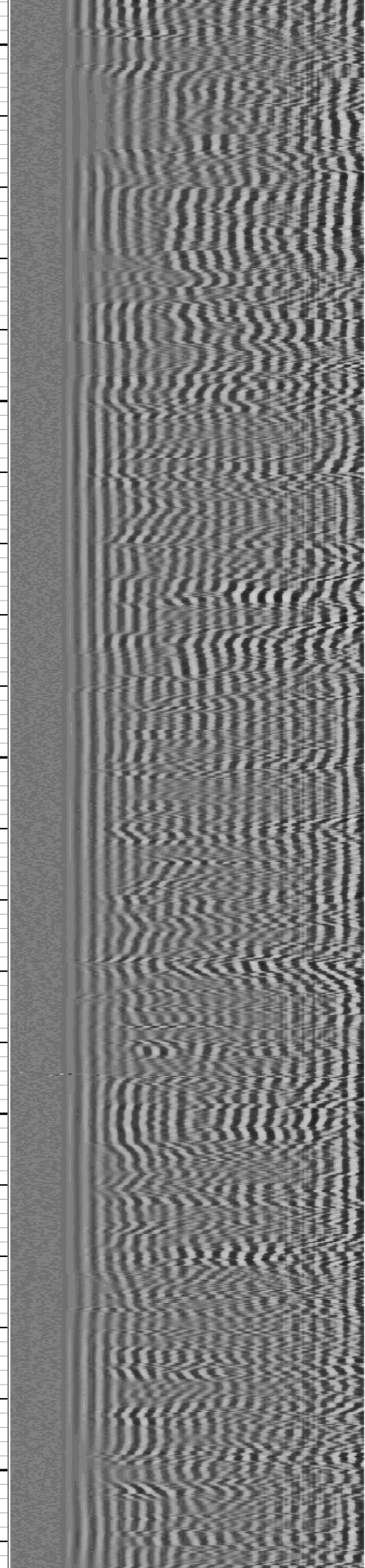
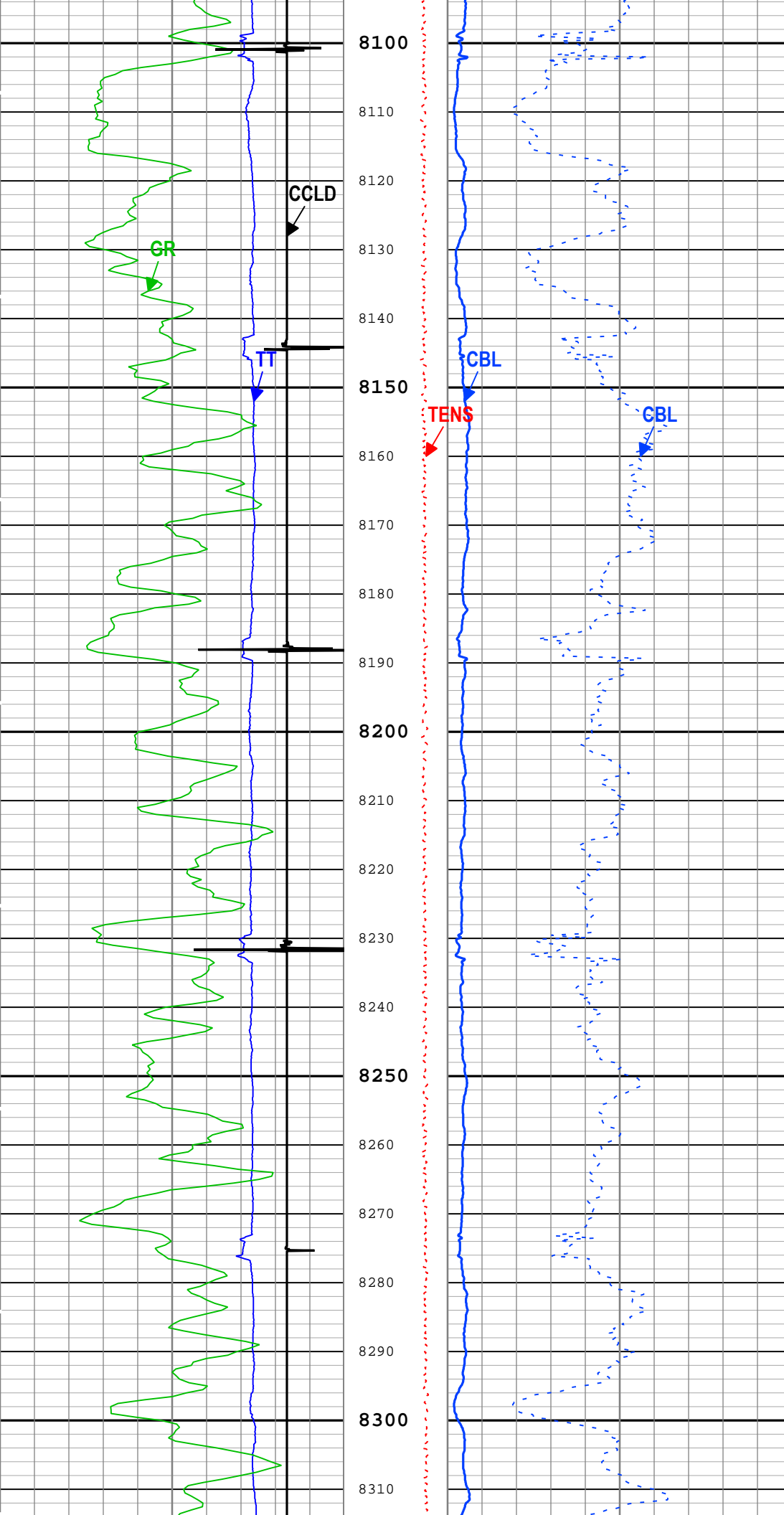


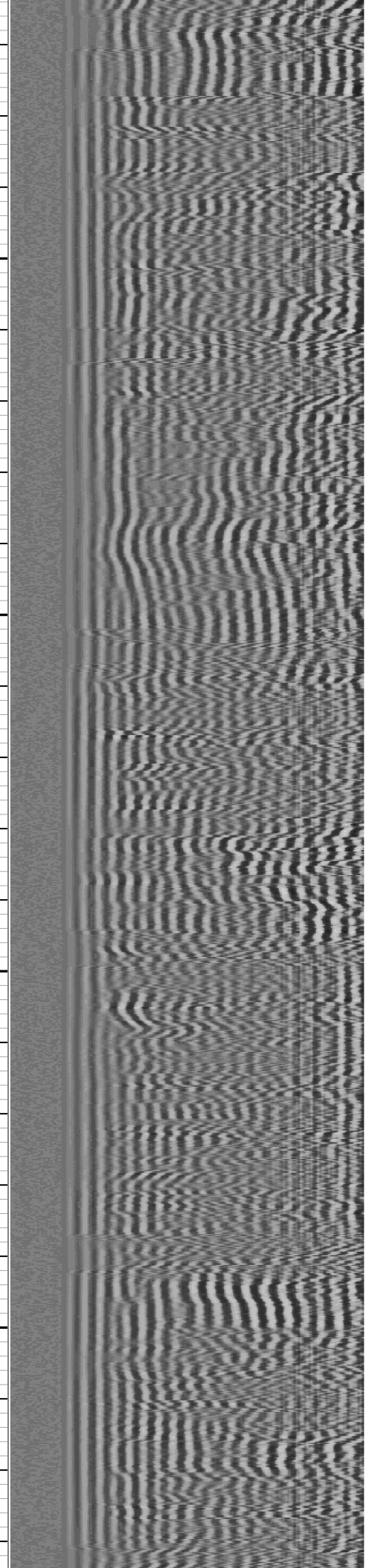
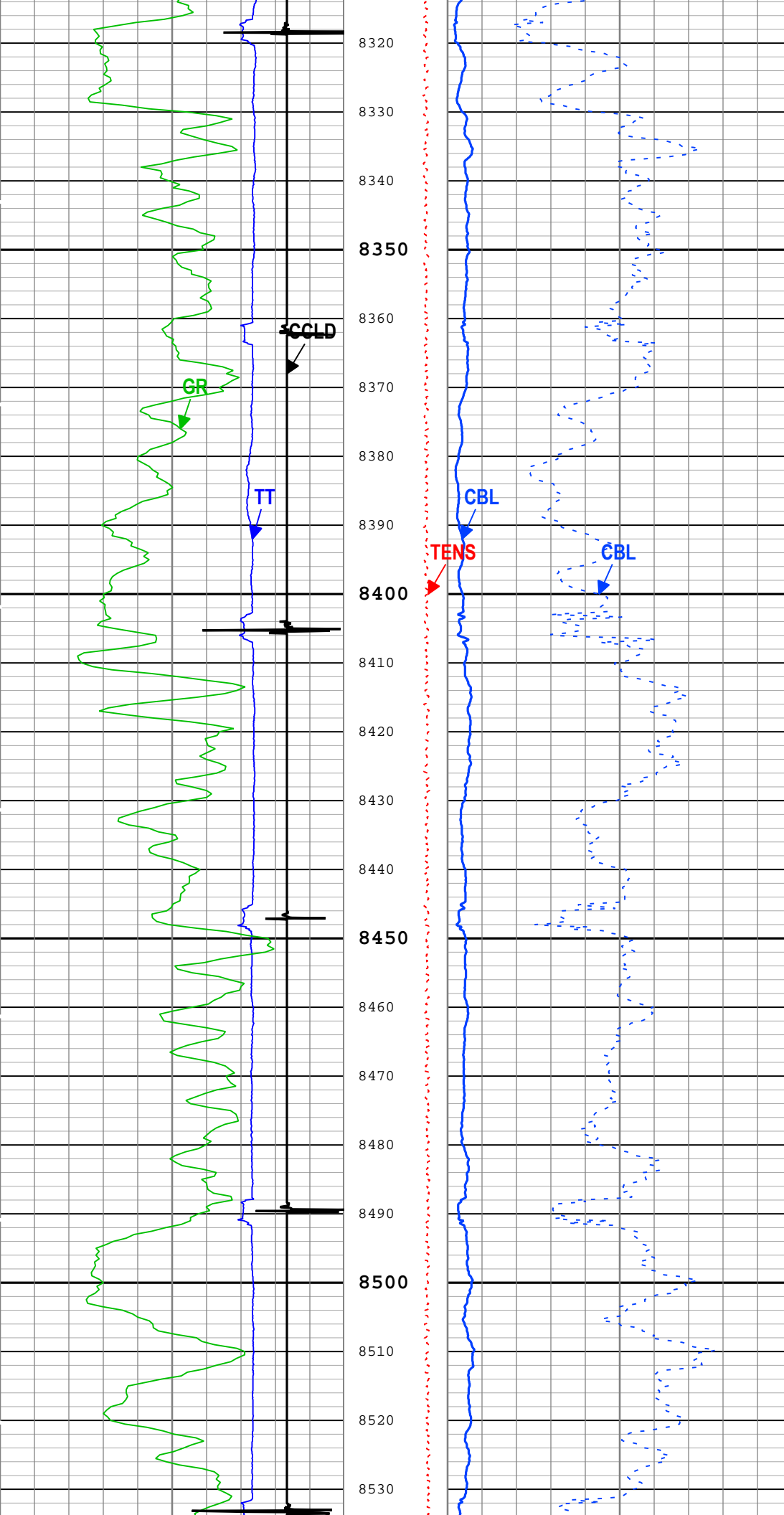




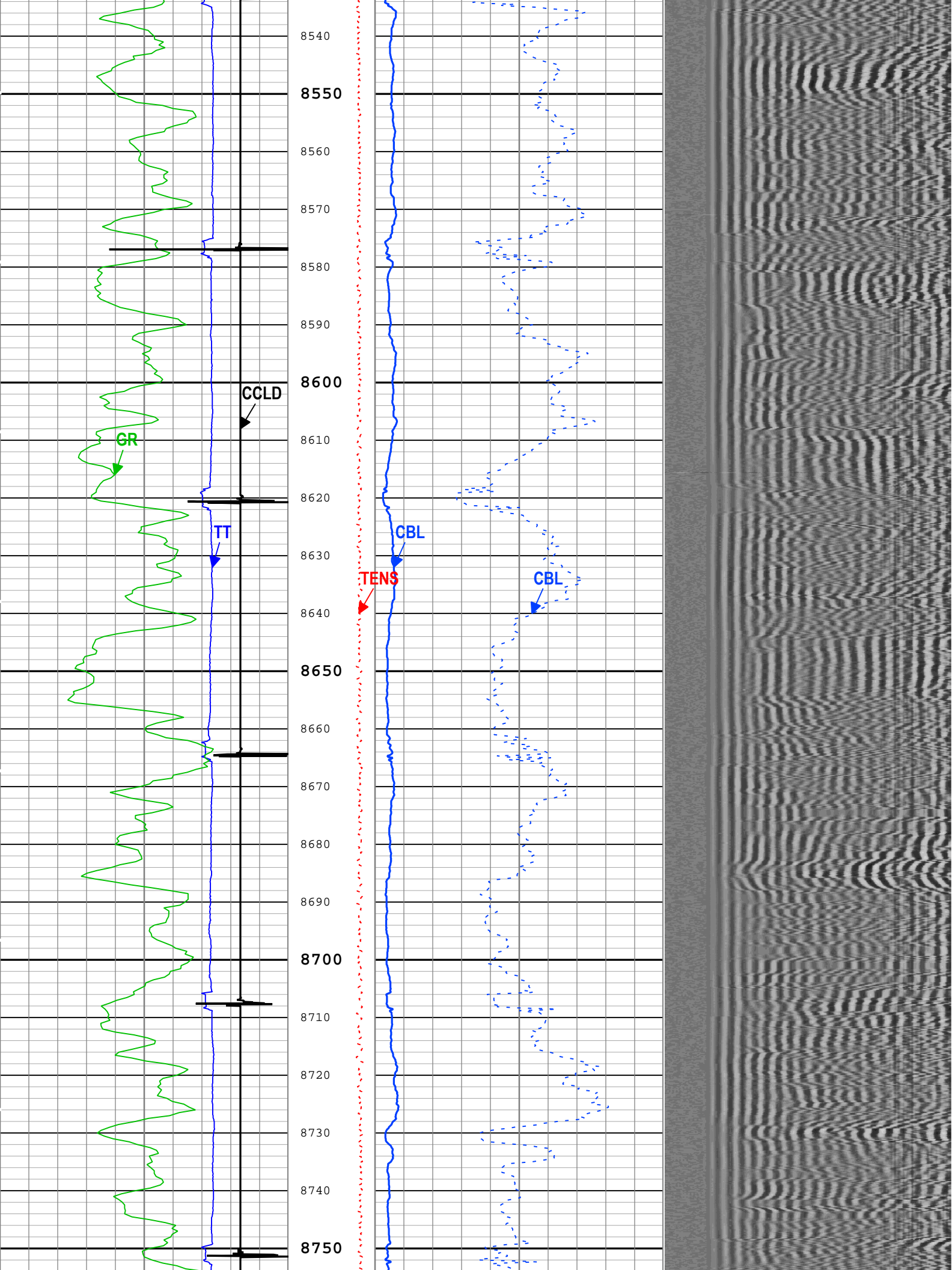


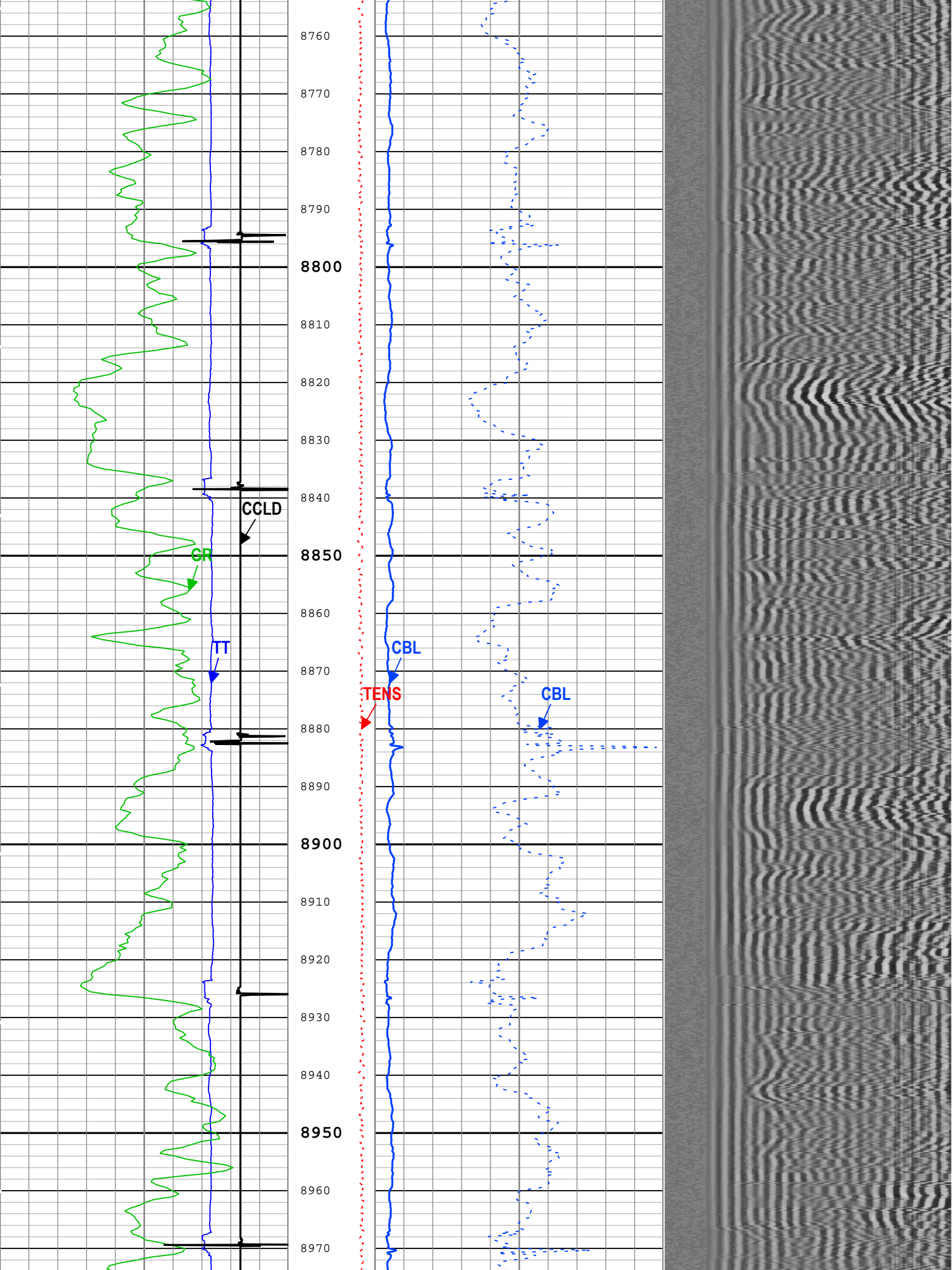


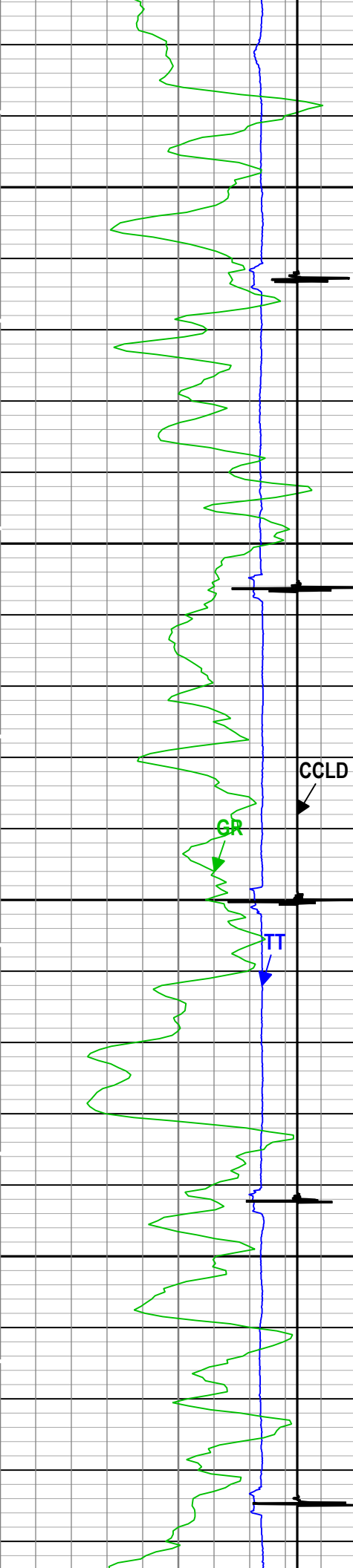




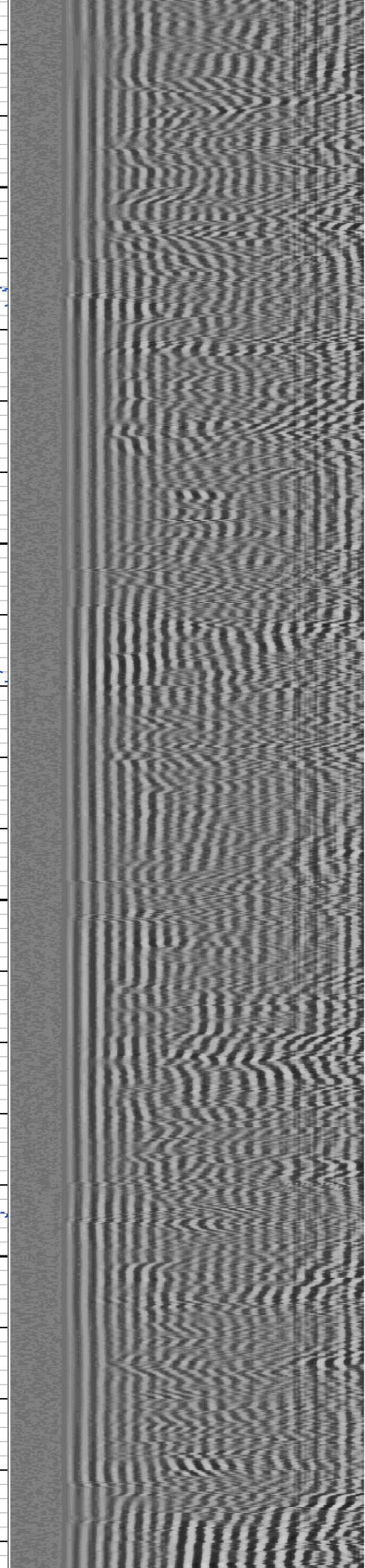
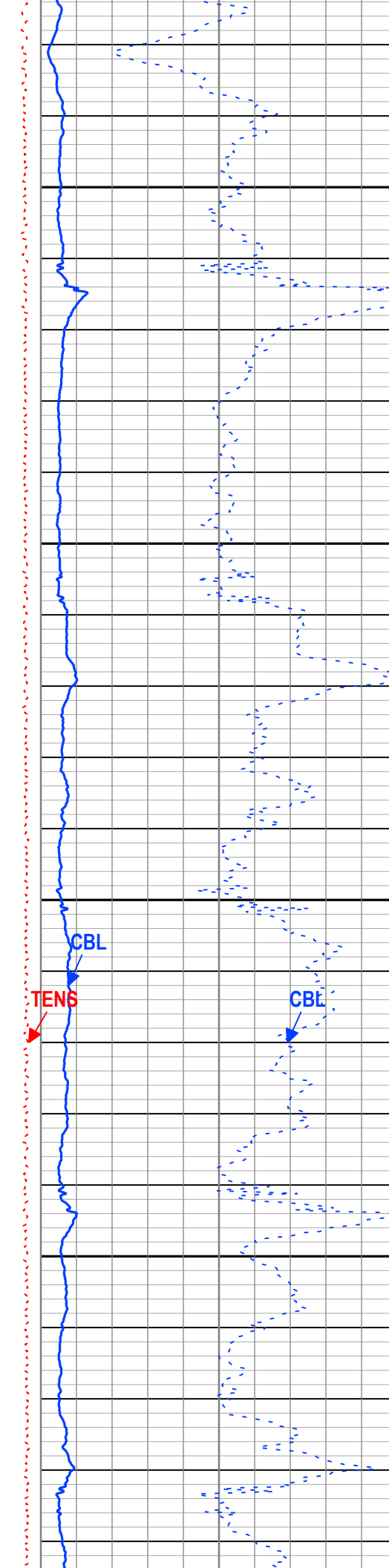




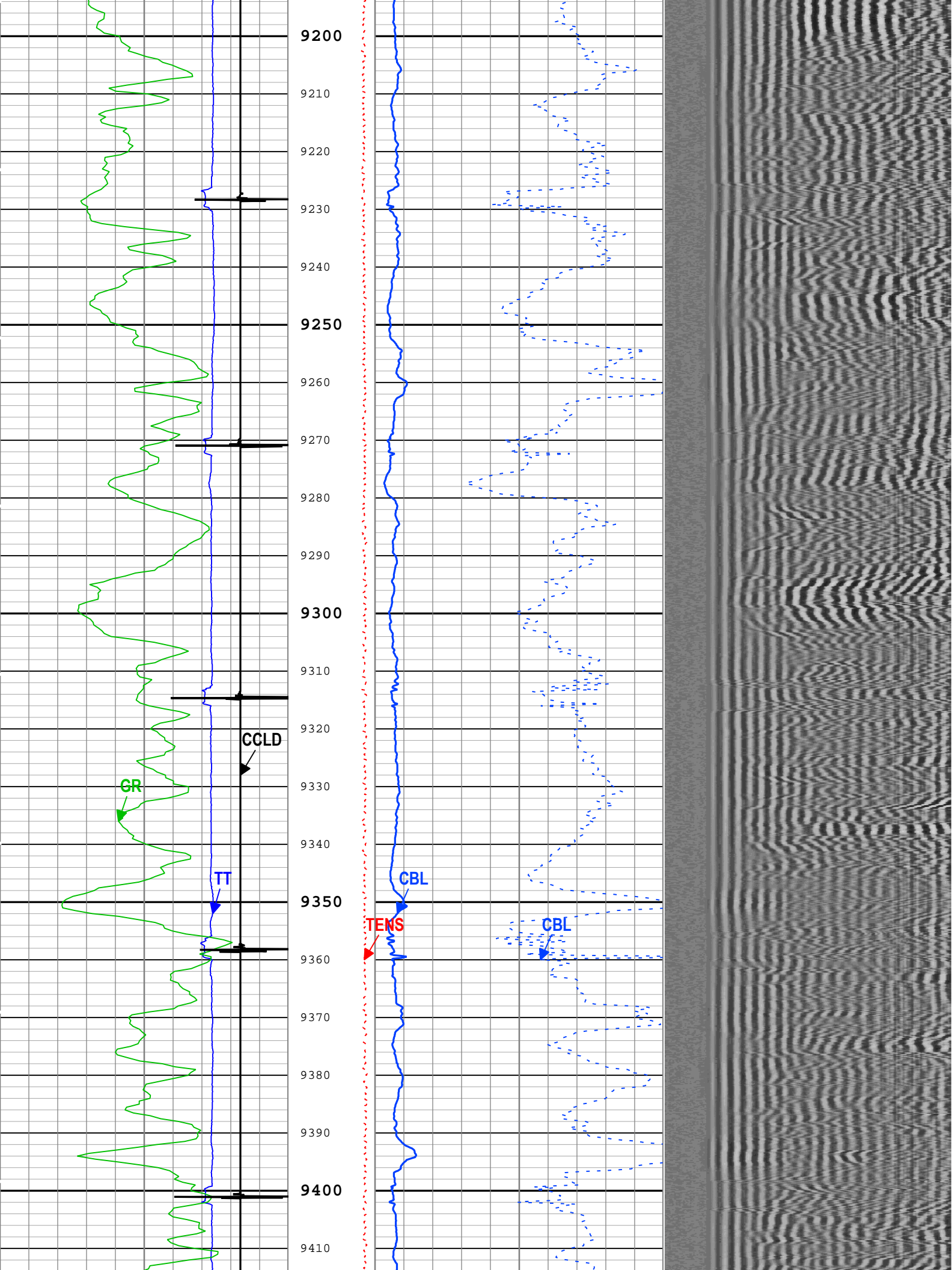


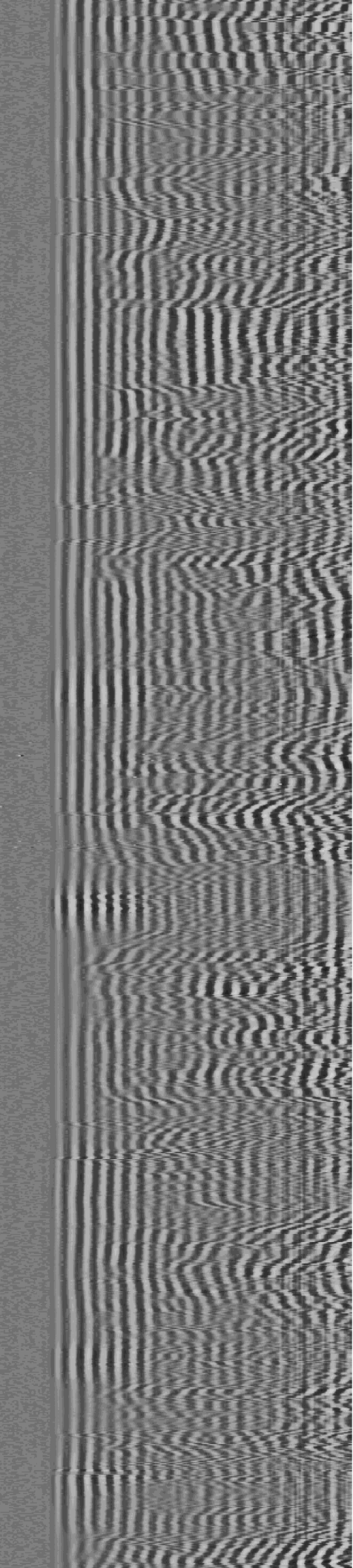
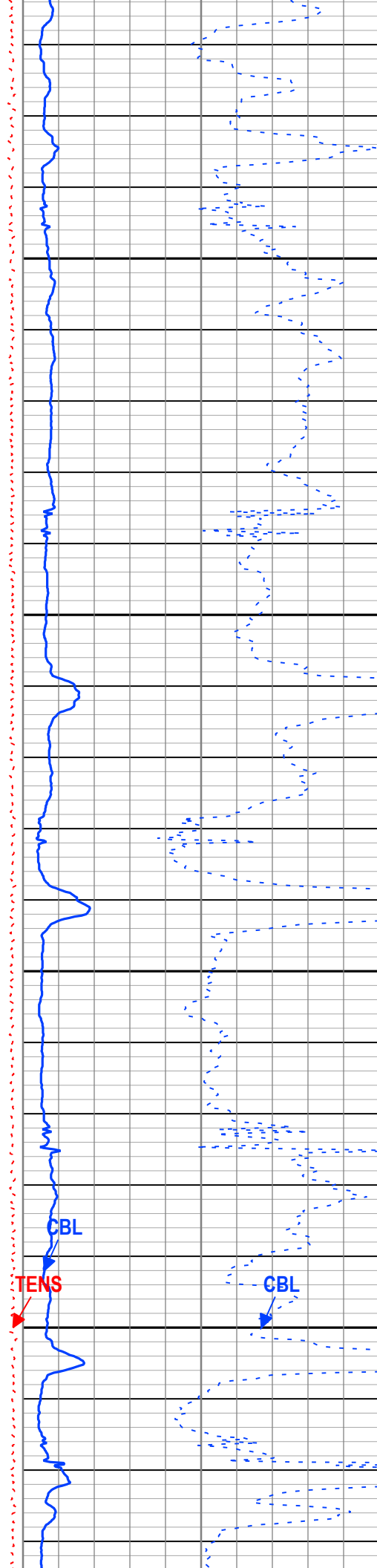
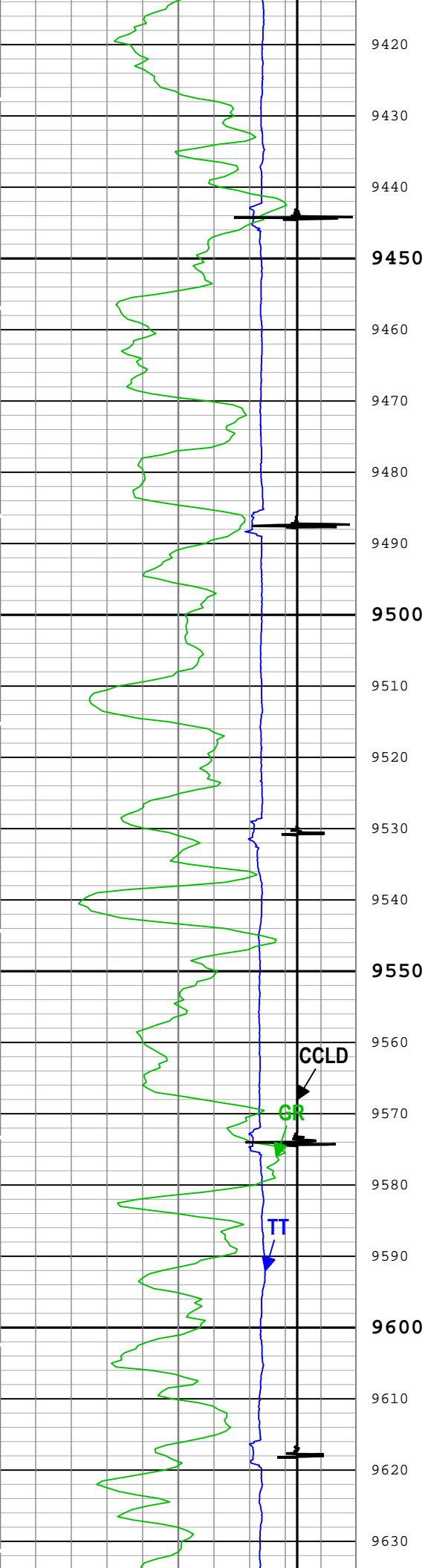


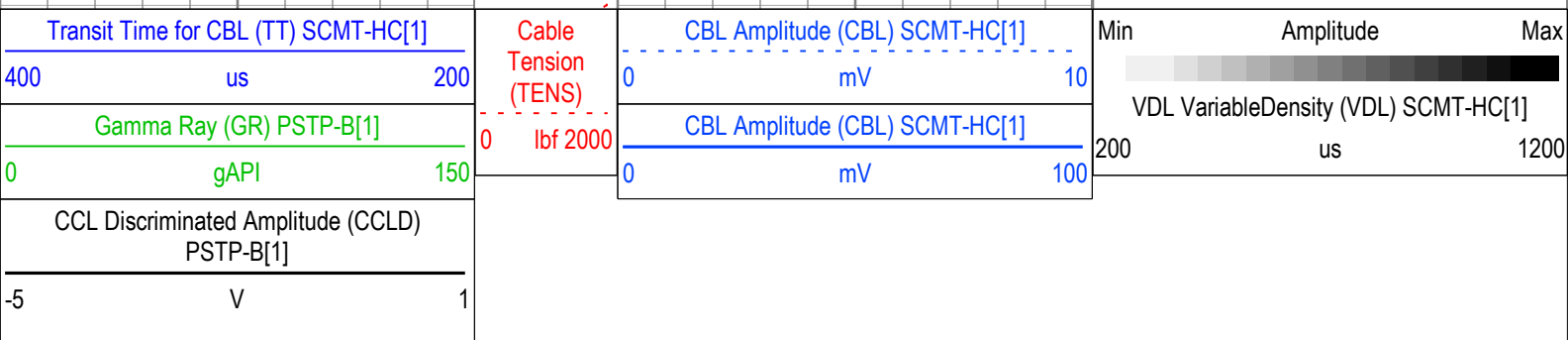
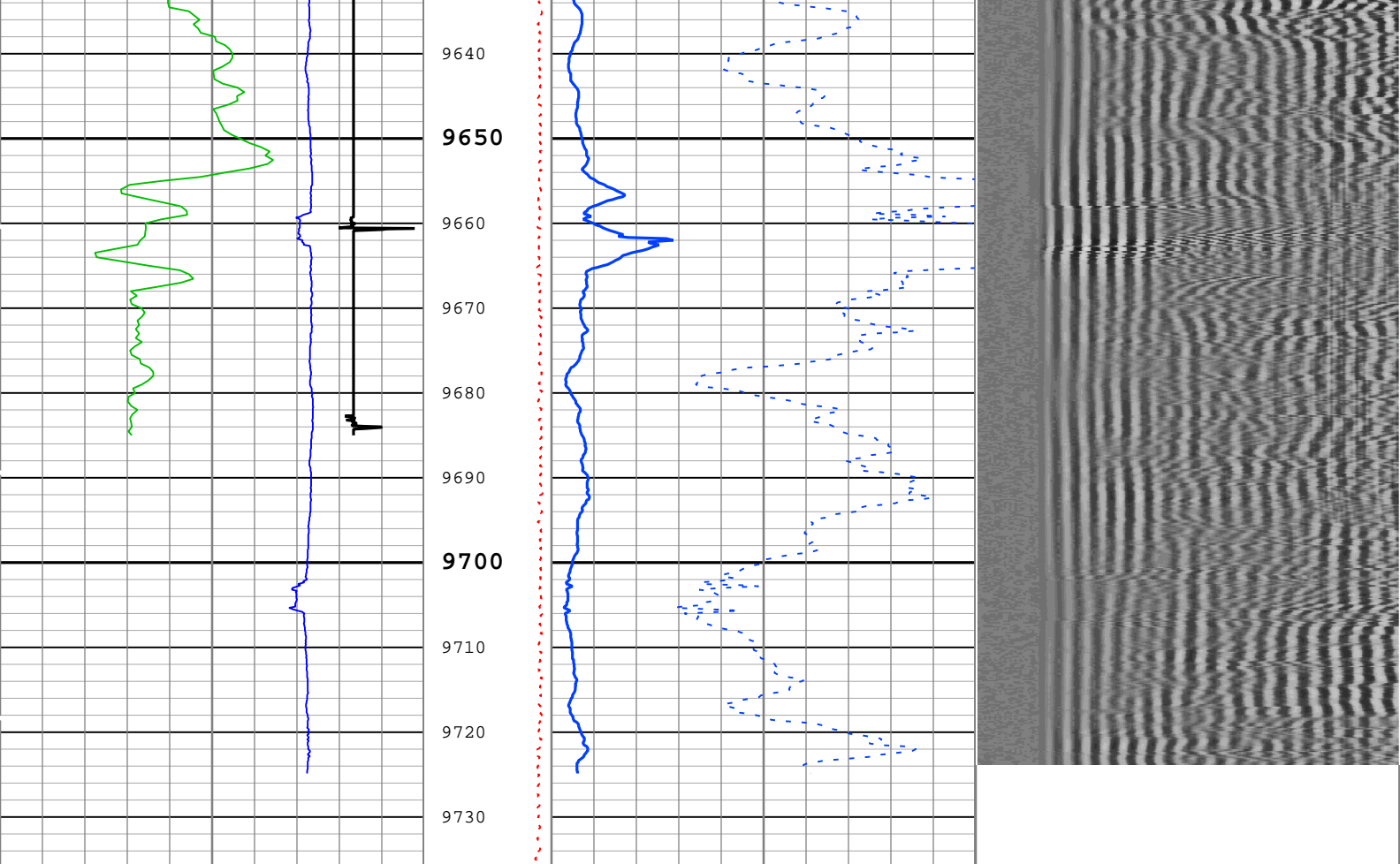
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TIME\_1900 - Time Marked every 60.00 (s)

■ BIEP - Bond Index Event Pips SCMT-HC[1]

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: 17-Sep-2018 13:39:32

## Channel Processing Parameters

### 1: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	274	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-HC	234.82	us
CBLG	CBL Gate Width	SCMT-HC	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-HC	80	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-HC	1.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-HC	16.92	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-HC	Depth Zoned	ft



MSA	Minimum Sonic Amplitude	SCMT-HC	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-HC	0.51	mV
RUN_SNUM	Run Sequence Number	WSDRUN	5	

1Depth Zoned Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
MCI	14.81	1800	2061
MCI	1.25	2061	9736.42

All depth are actual.

Tool Control Parameters

1: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-HC	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-B	12 dB	

1

CBL-VDL Repeat Pass

Software Version

Acquisition System	Version
Maxwell 2017 SP3	7.3.92069.3100
Application Patch	Wireline_Hotfix-RTDLIS-2017SP3_7.3.92363
	Wireline_Hotfix-SML-2017SP3_7.3.101161

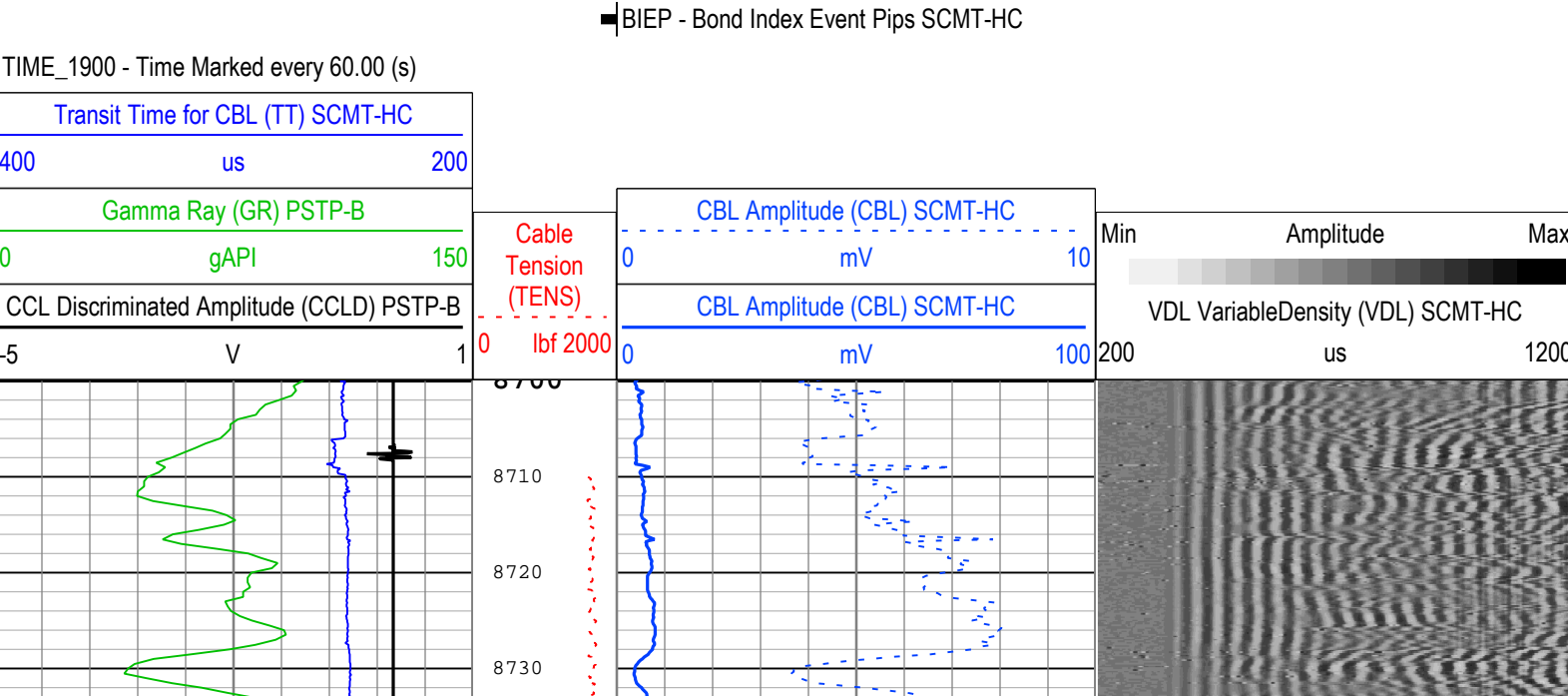
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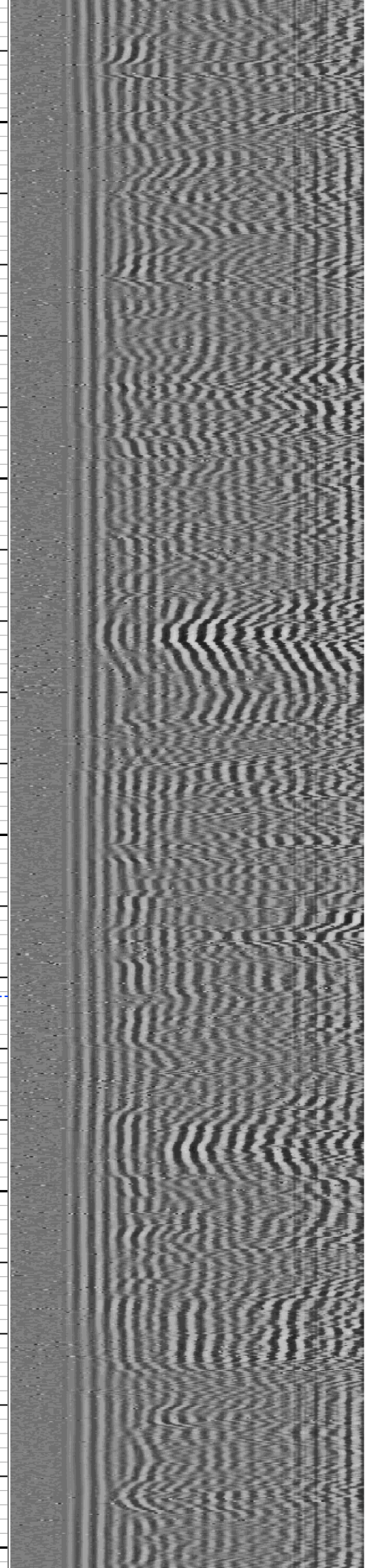
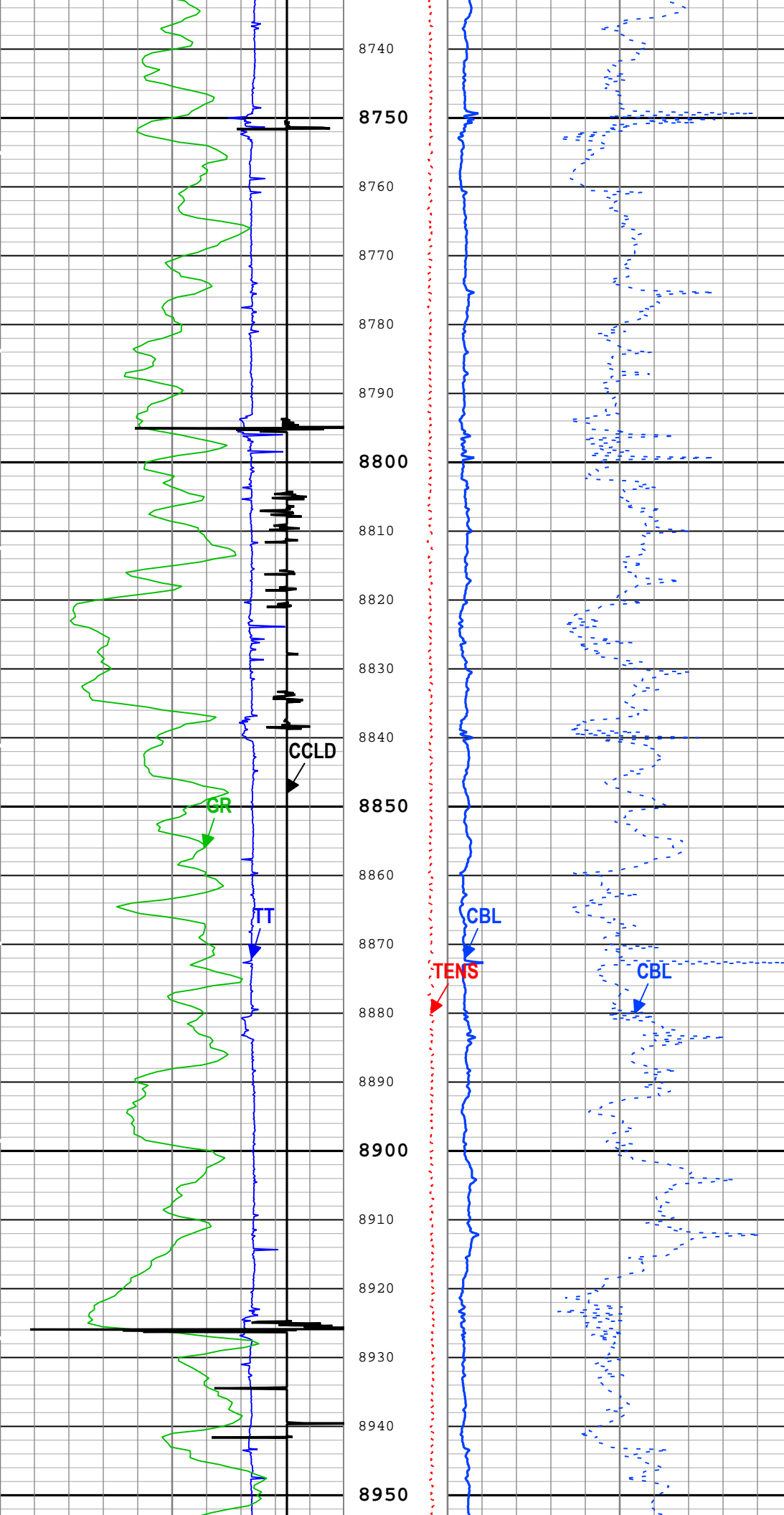
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1	Log[4]:Up	Up	8709.92 ft	9746.08 ft	17-Sep-2018 1:15:07 AM	17-Sep-2018 1:51:34 AM	ON	8.51 ft	Yes

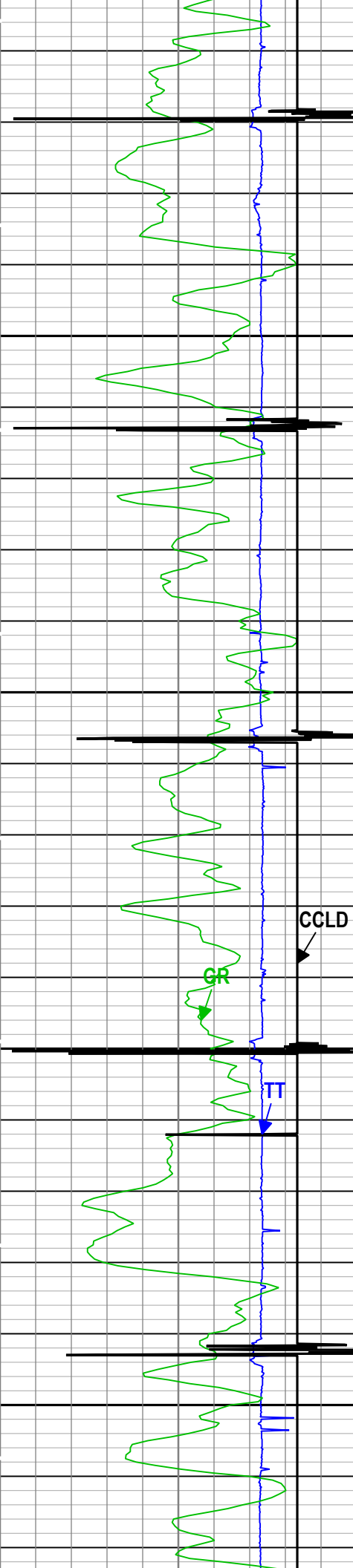
All depths are referenced to toolstring zero

Log	Company:Caerus Operating LLC	Well:NPR 11A-15 596
		1: Log[4]:Up:S007

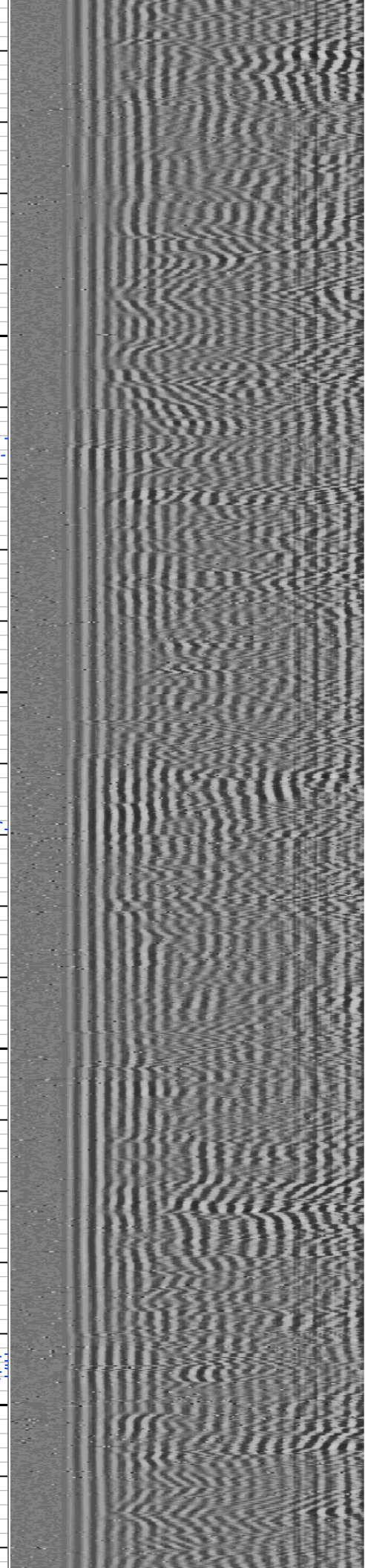
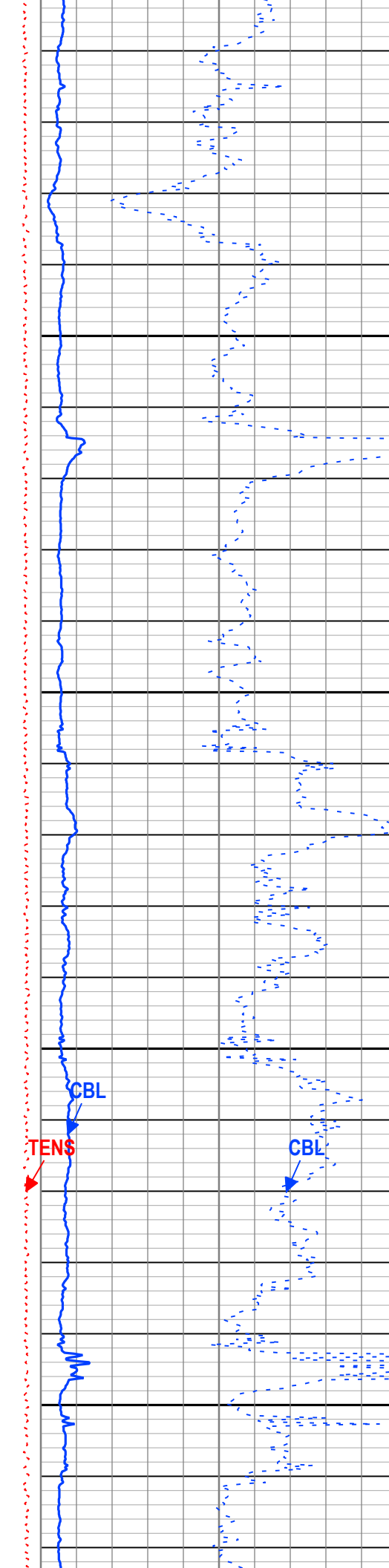
Description: Sonic CBL with VDL    Format: Log ( Sonic CBL with VDL )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 17-Sep-2018 13:39:48



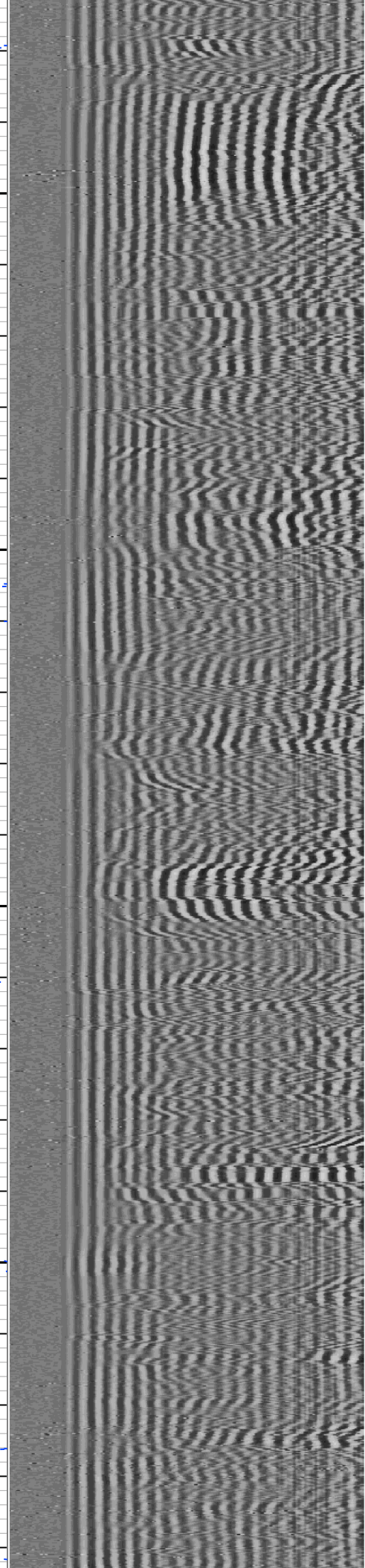
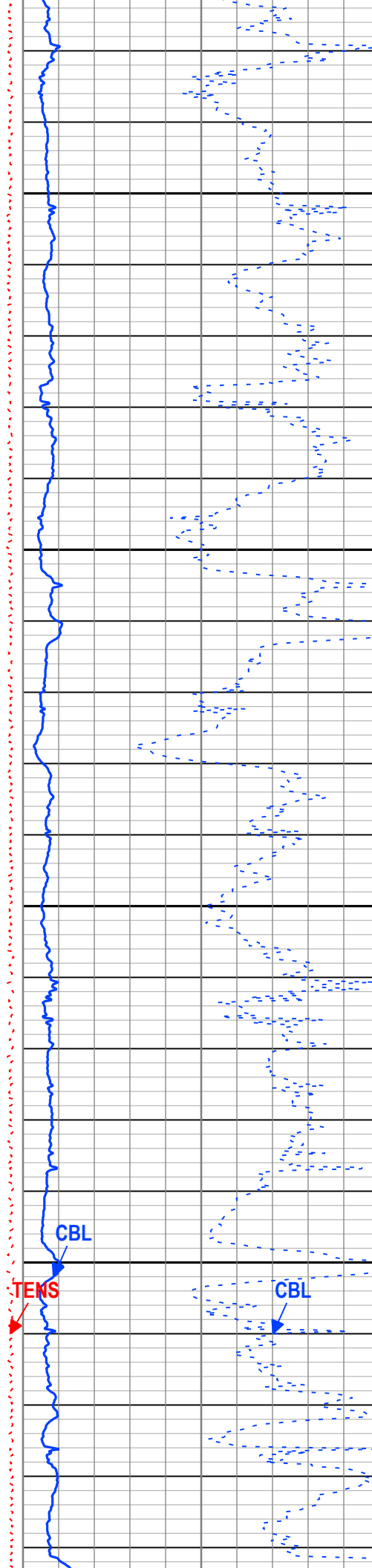
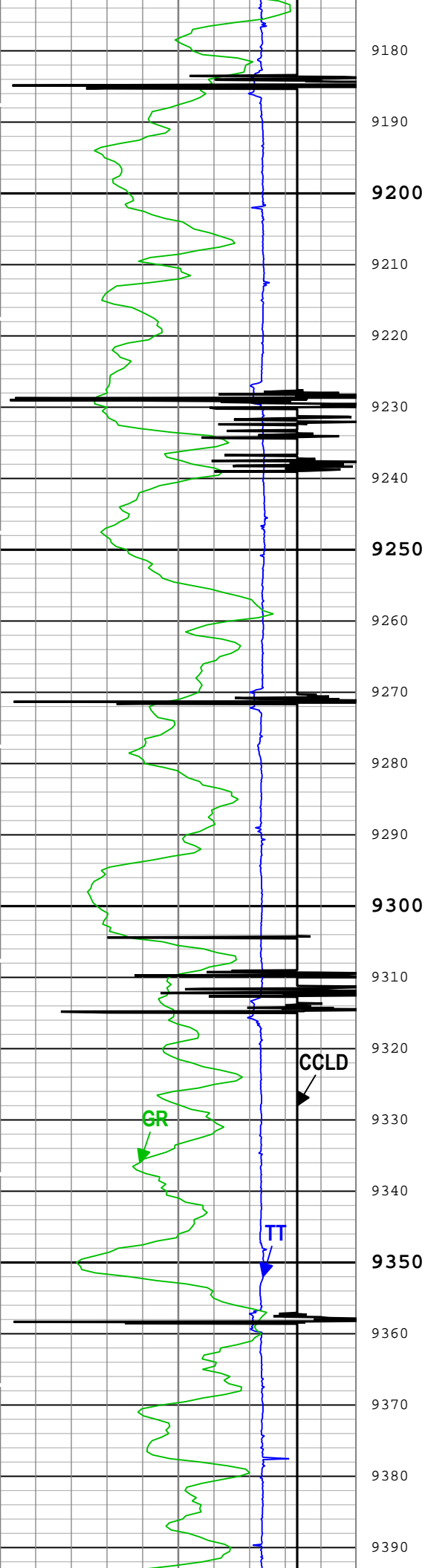


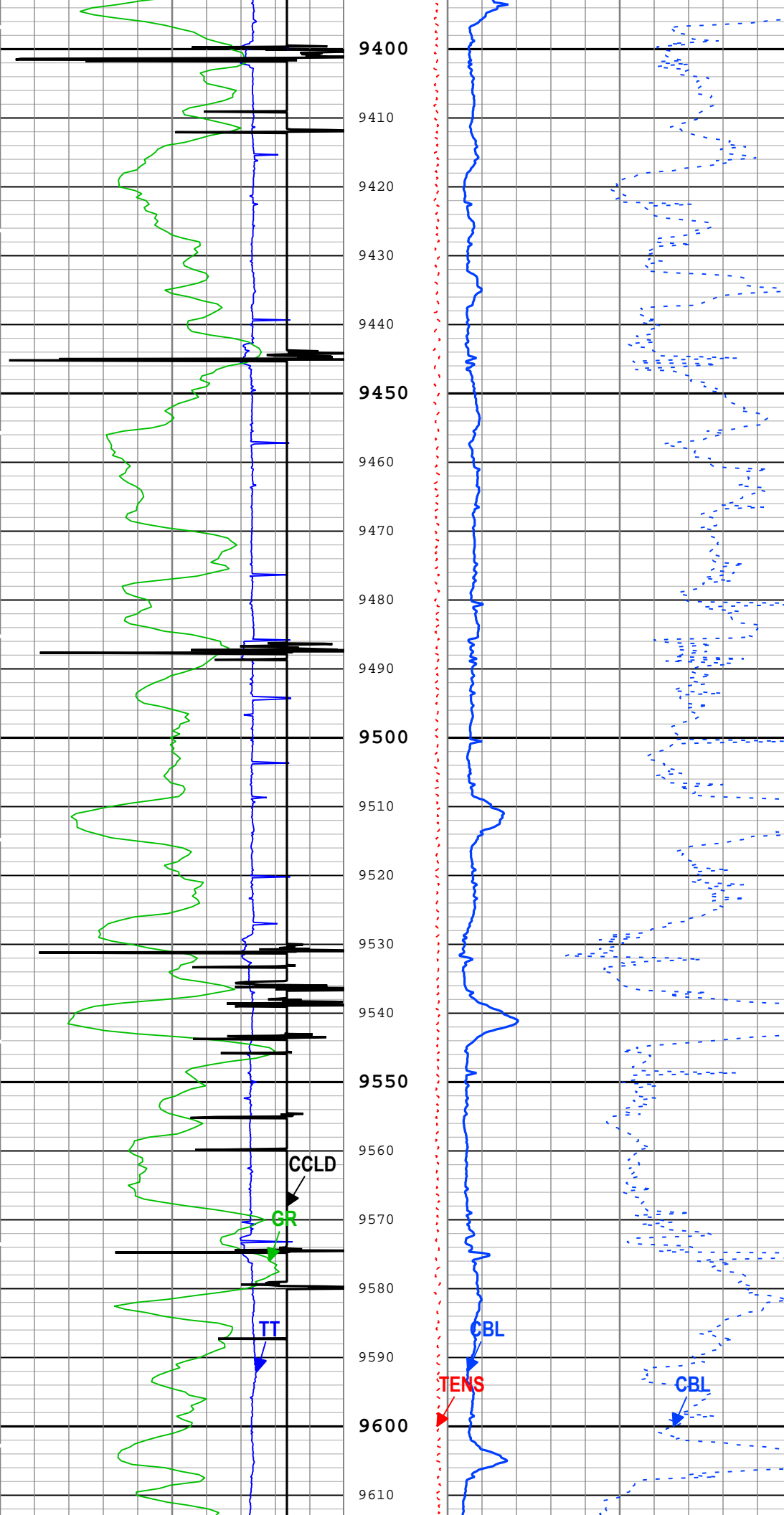


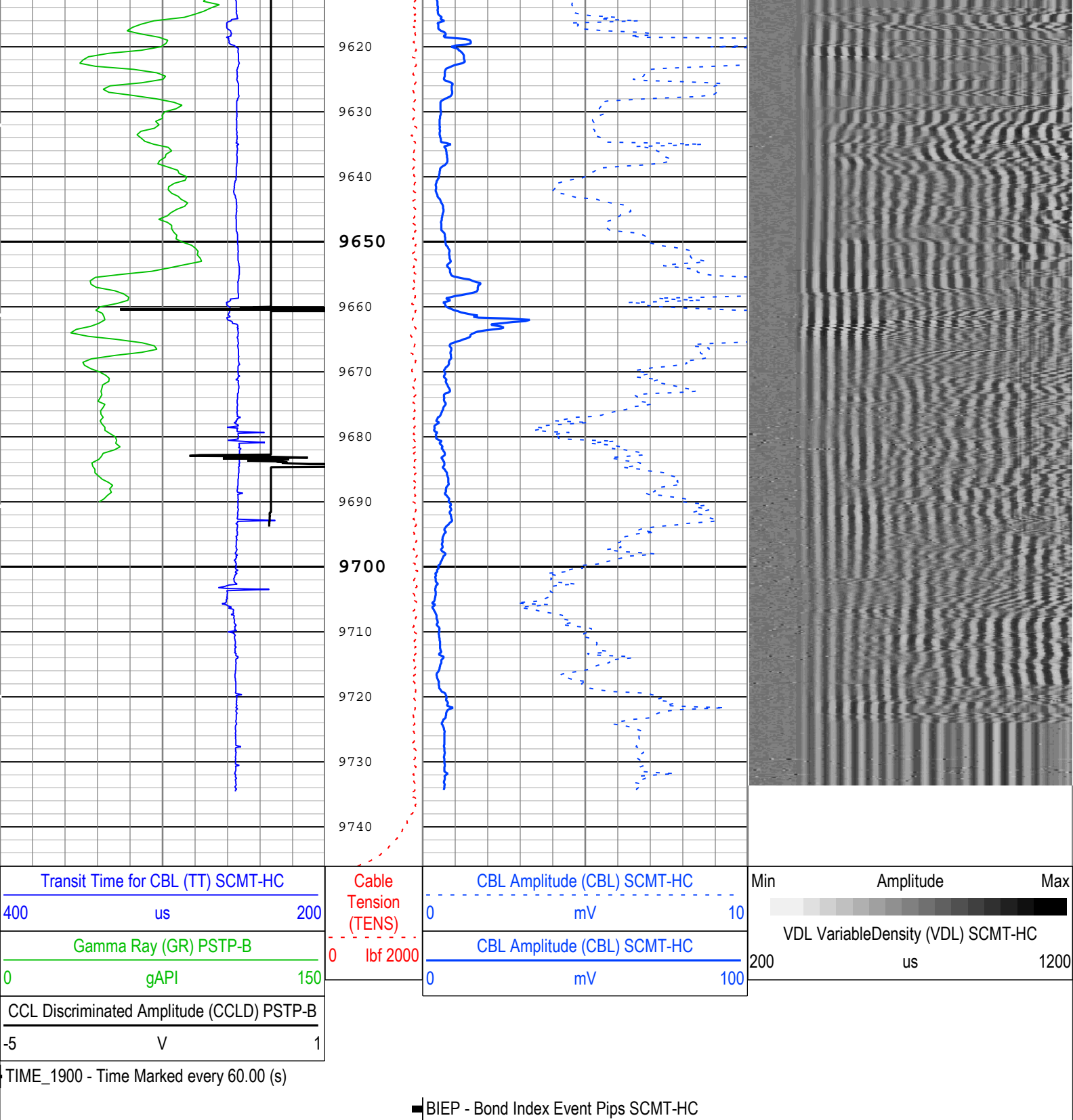
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Description: Sonic CBL with VDL    Format: Log ( Sonic CBL with VDL )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 17-Sep-2018 13:39:48

## Channel Processing Parameters

### 1: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	274	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-HC	Time Zoned	us
CBLG	CBL Gate Width	SCMT-HC	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-HC	Depth Zoned	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	



DFTD	Drilling Fluid Density	Borehole	8.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-HC	Depth Zoned	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-HC	Depth Zoned	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-HC	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-HC	Depth Zoned	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-HC	Depth Zoned	mV
RUN_SNUM	Run Sequence Number	WSDRUN	5	

Depth Zone Parameters			
Parameter	Value	Start ( ft )	Stop ( ft )
CBRA	80	8700	9737
CBRA	0	9737	9746.08
GOBO_CURR	1.4	8700	9737
GOBO_CURR	0	9737	9746.08
MATT_CURR	16.92	8700	9737
MATT_CURR	0	9737	9746.08
MCI	1.25	8700	9737
MCI	0	9737	9746.08
MSA	0.51	8700	9737
MSA	0	9737	9746.08
MSA_CURR	0.51	8700	9737
MSA_CURR	0	9737	9746.08
All depth are actual.			

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
CB3G	230.56	17-Sep-2018 01:15:07	17-Sep-2018 01:29:24	9746.08	9355.25
CB3G	234.82	17-Sep-2018 01:29:24	17-Sep-2018 01:51:34	9355.25	8709.92
All depth are at tool zero.					

Tool Control Parameters				
1: Parameters				
Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-HC	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-B	Time Zoned	

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
PCCG	36 dB	17-Sep-2018 01:15:07	17-Sep-2018 01:42:37	9746.08	8966.73
PCCG	12 dB	17-Sep-2018 01:42:37	17-Sep-2018 01:45:22	8966.73	8887.62
PCCG	24 dB	17-Sep-2018 01:45:22	17-Sep-2018 01:48:08	8887.62	8808.27
PCCG	12 dB	17-Sep-2018 01:48:08	17-Sep-2018 01:51:34	8808.27	8709.92
All depth are at tool zero.					

Main Pass				
RST Sigma Main Pass				

Software Version	

Acquisition System	Version
Maxwell 2017 SP3	7.3.92069.3100
Application Patch	Wireline_Hotfix-RTDLIS-2017SP3_7.3.92363
	Wireline_Hotfix-SML-2017SP3_7.3.101161

## Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1	Log[5]:Up	Up	6767.96 ft	9745.45 ft	17-Sep-2018 2:06:49 AM	17-Sep-2018 3:49:08 AM	ON	6.06 ft	Yes
1	Log[6]:Up	Up	1699.08 ft	7057.52 ft	17-Sep-2018 4:14:31 AM	17-Sep-2018 7:19:10 AM	ON	6.06 ft	Yes

All depths are referenced to toolstring zero

## Log

Company:Caerus Operating LLC

Well:NPR 11A-15 596

Main Pass:S007

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: 17-Sep-2018 13:39:53
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—IHV - Integrated Hole Volume every 10.00 (ft3)

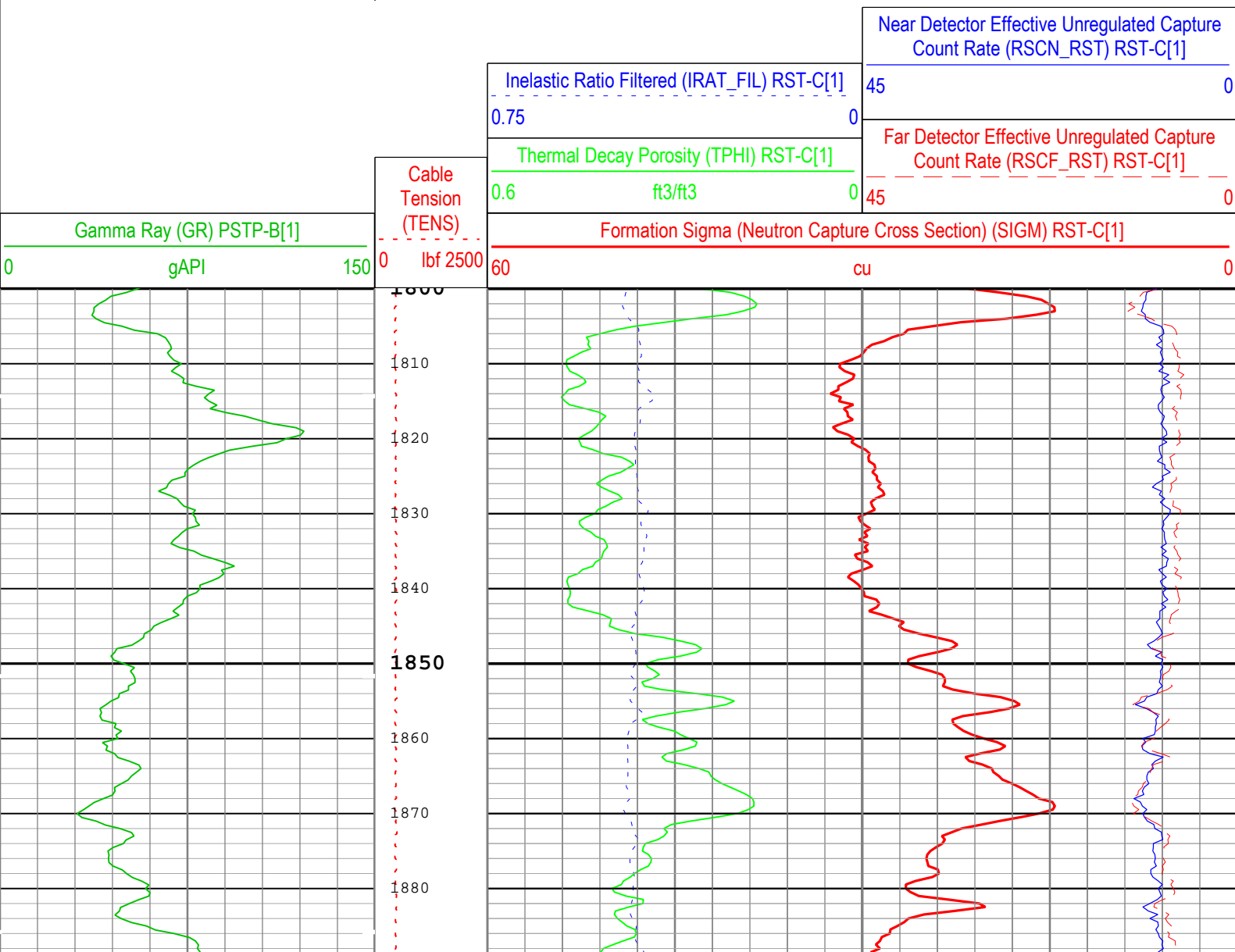
—IHV - Integrated Hole Volume every 100.00 (ft3)

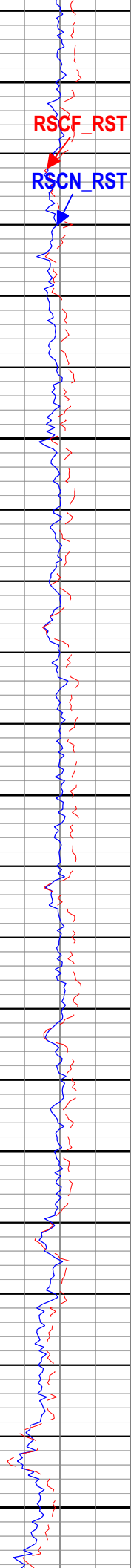
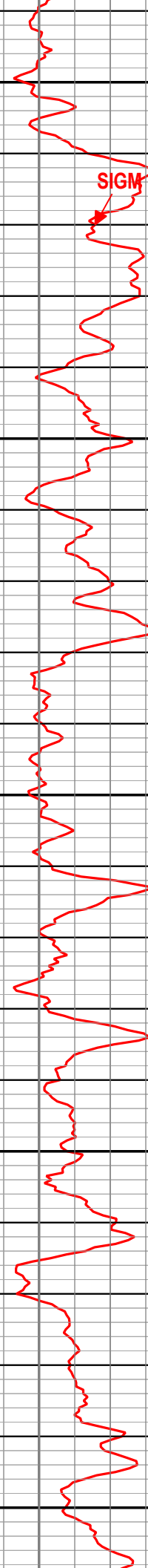
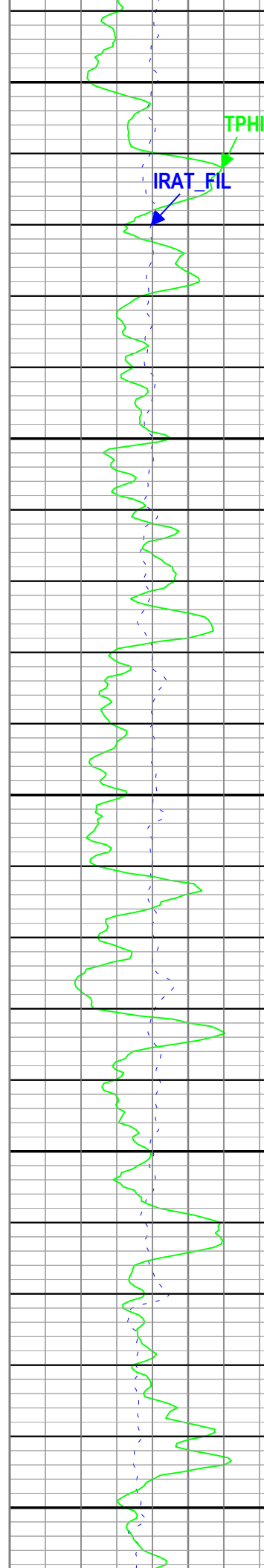
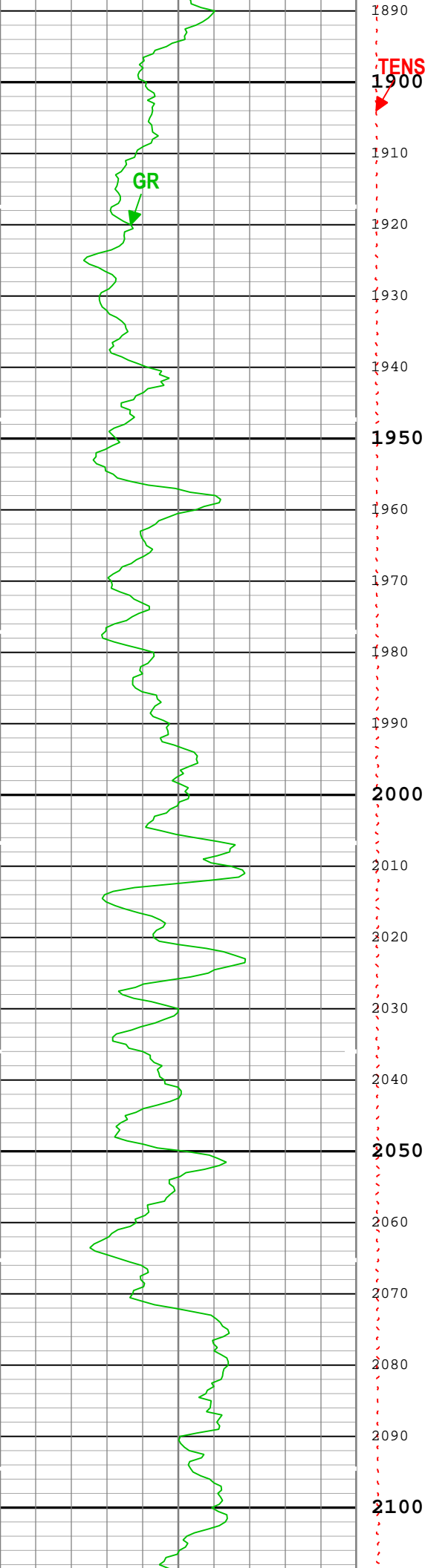
TIME\_1900 - Time Marked every 60.00 (s)

└ ICV - Integrated Cement Volume every 10.00 (ft3)

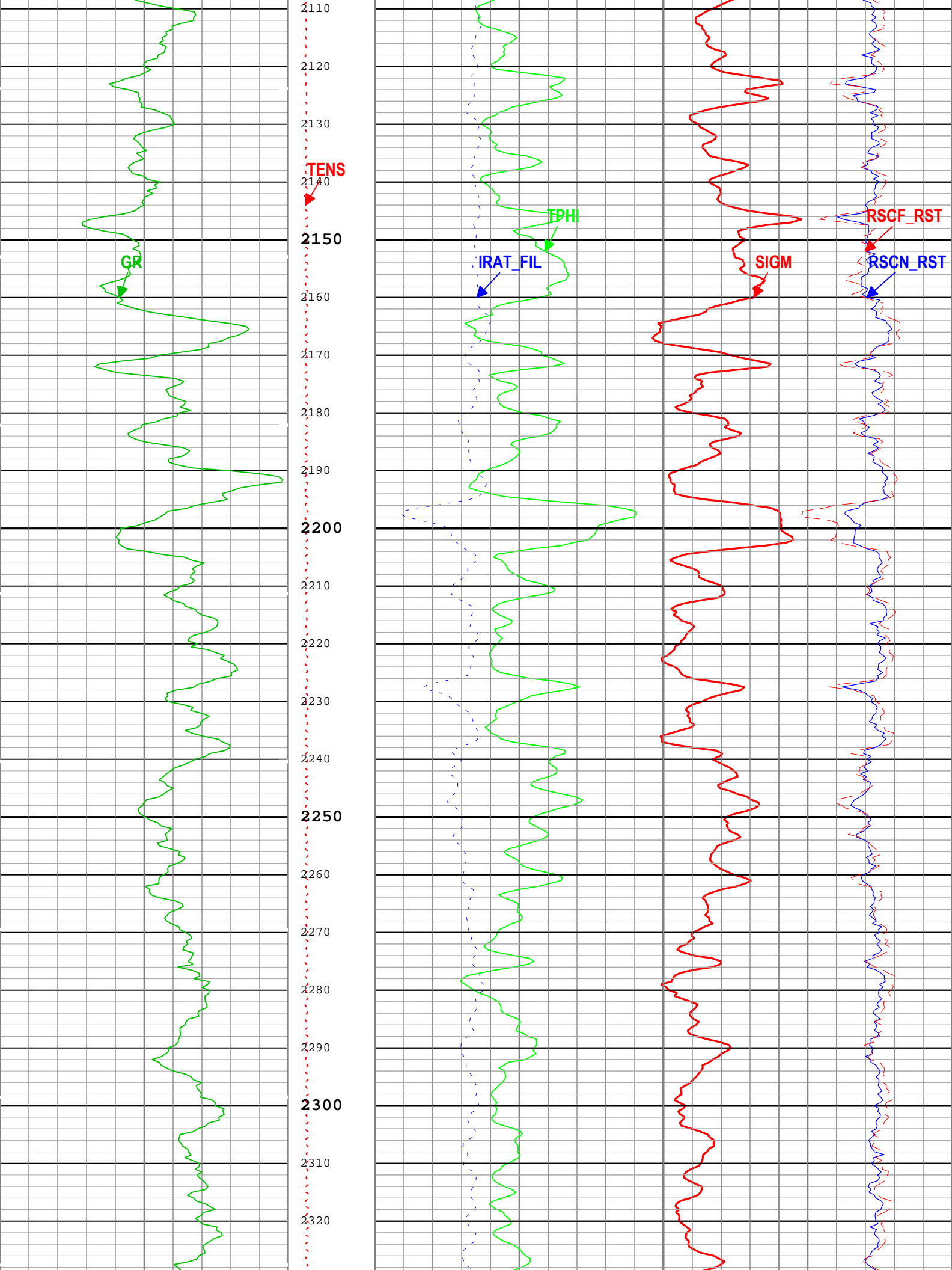
TIME\_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)

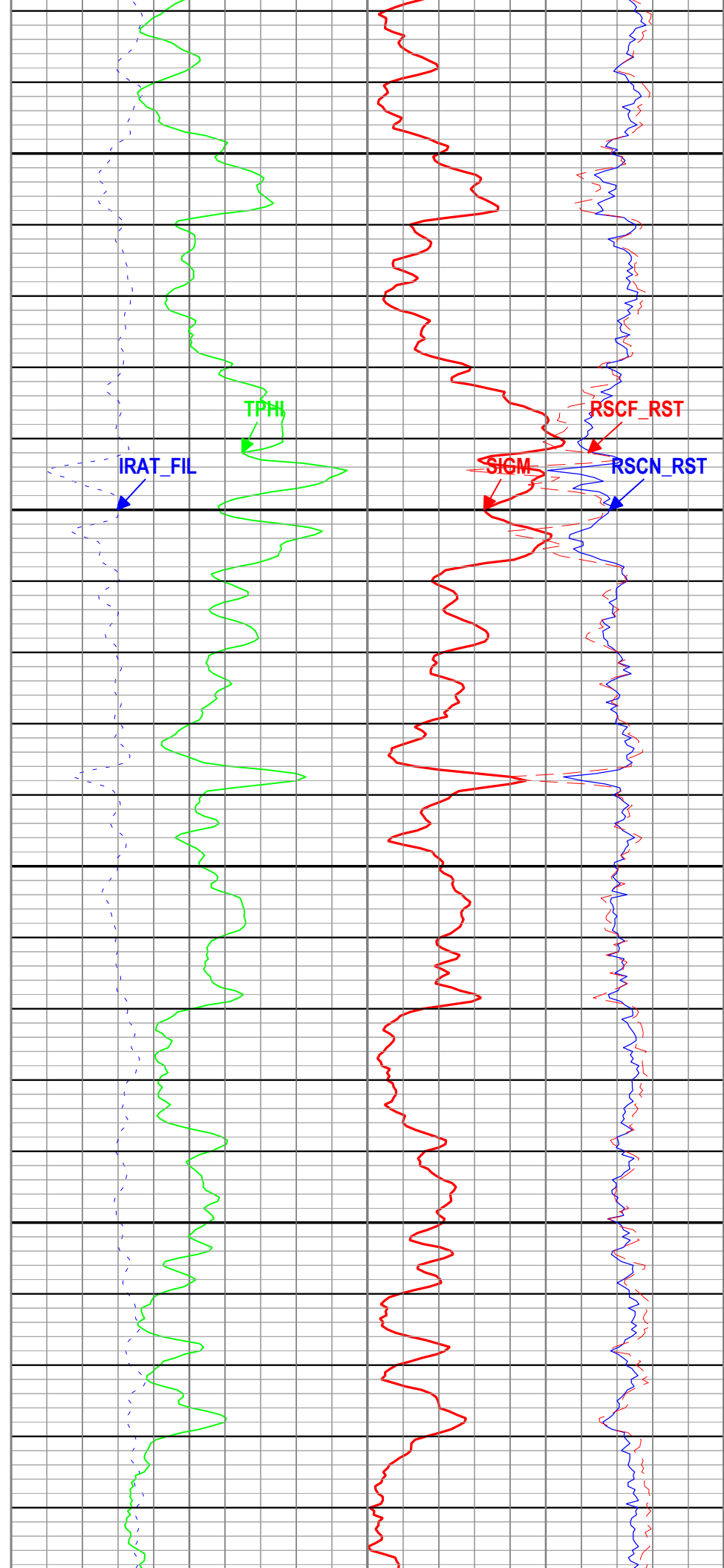
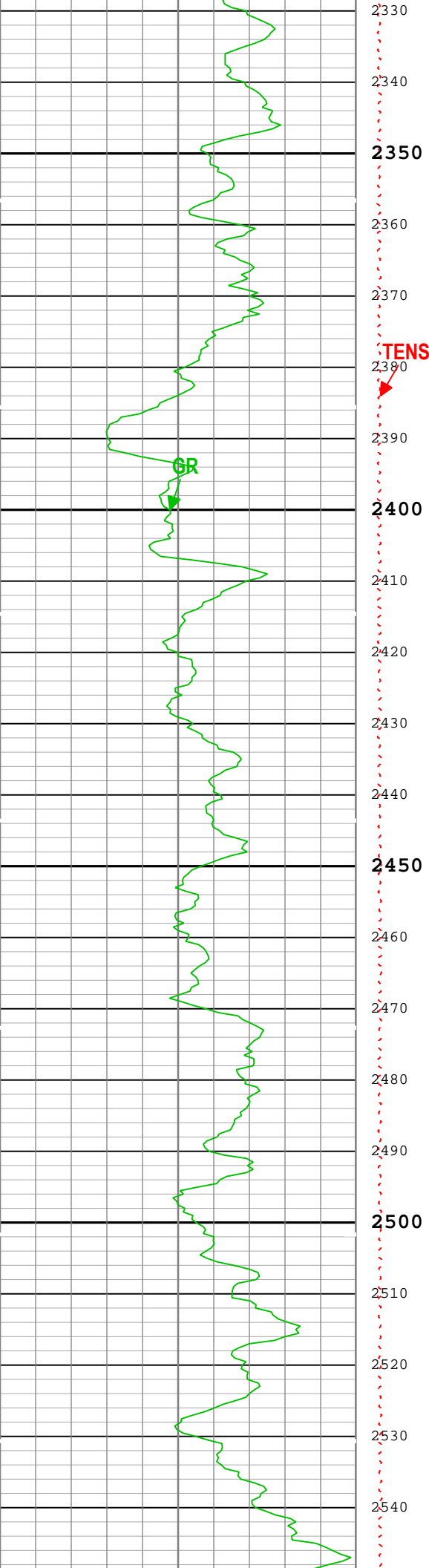
— ICV - Integrated Cement Volume every 100.00 (ft3)

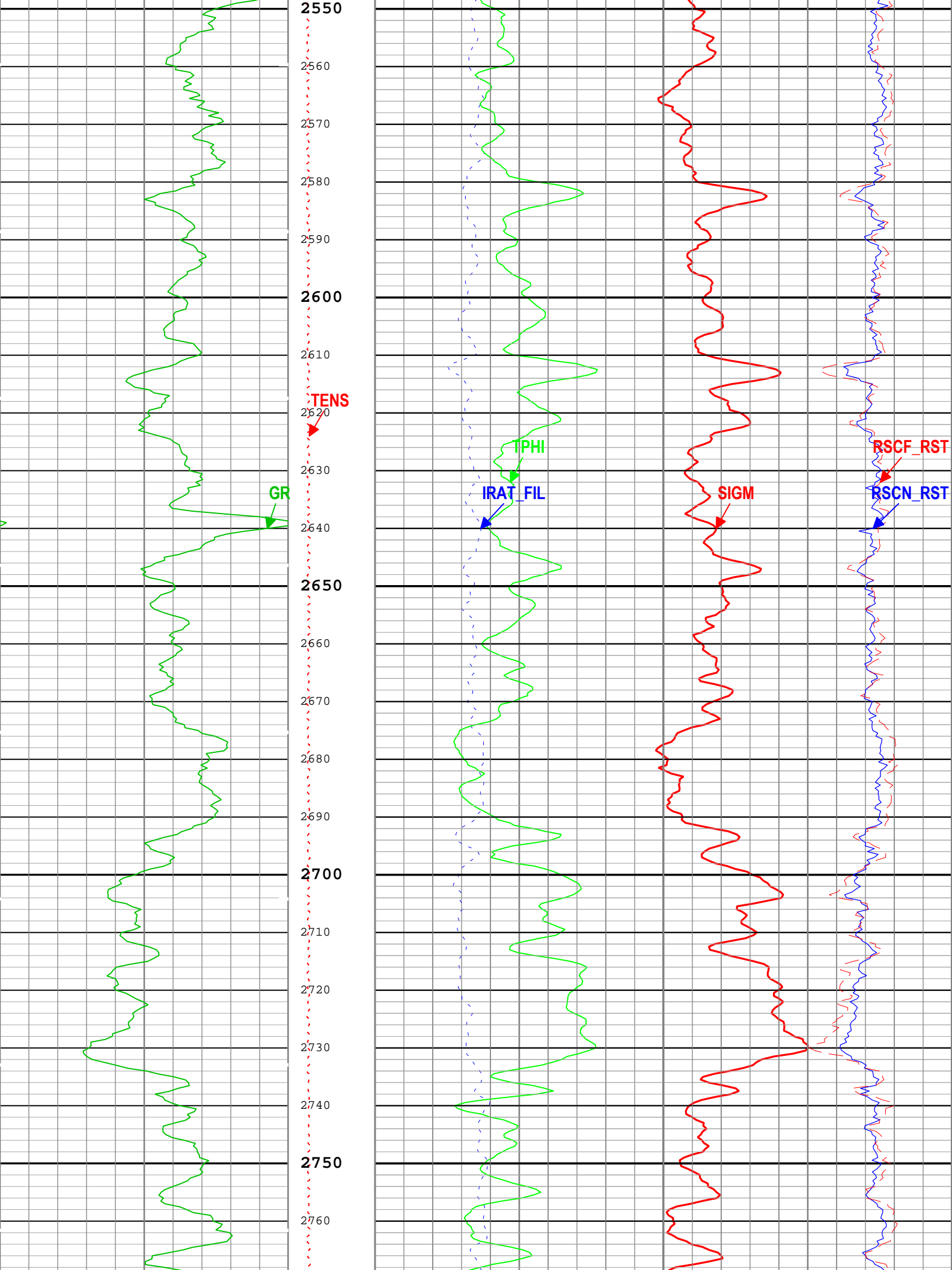




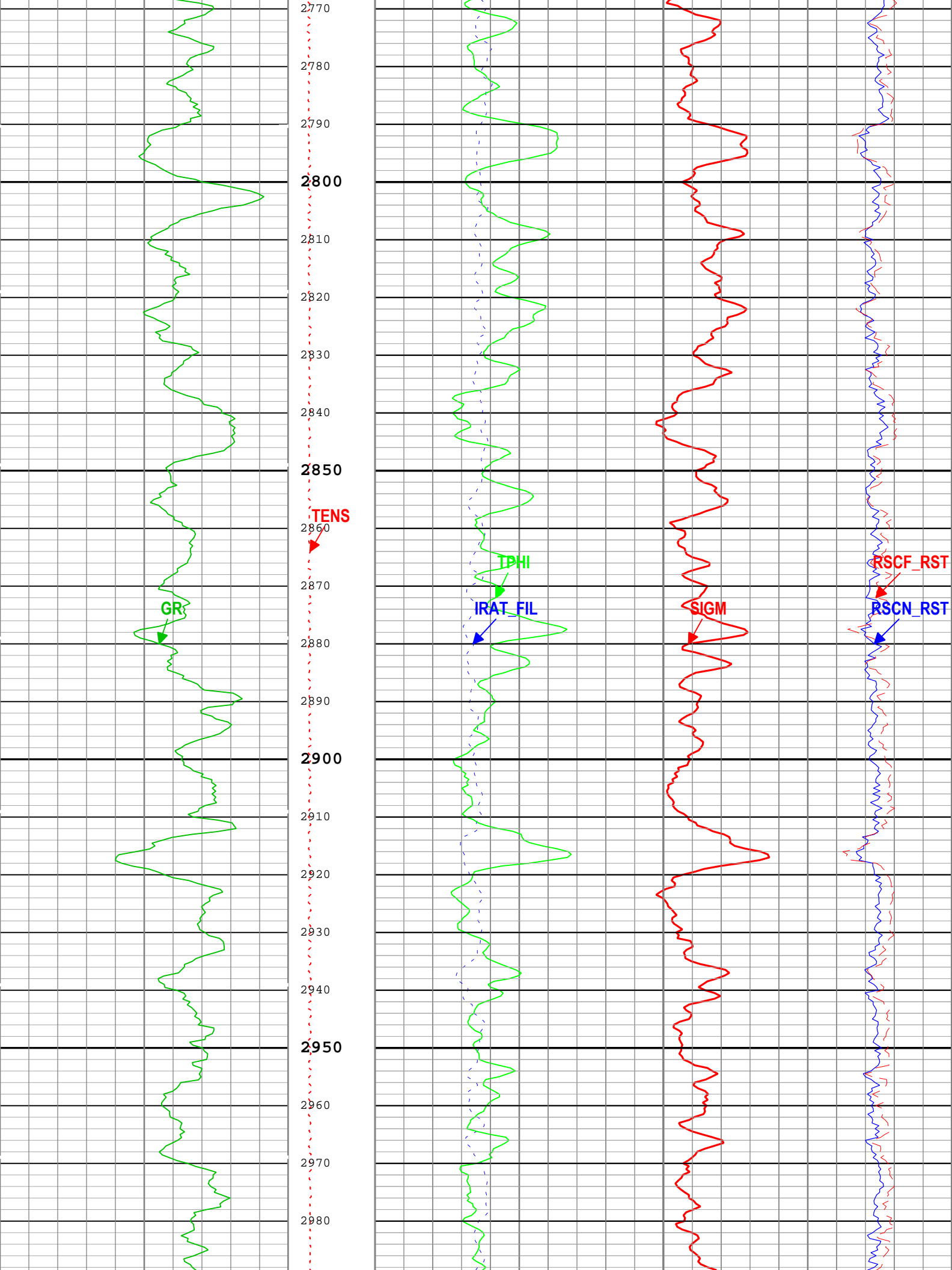


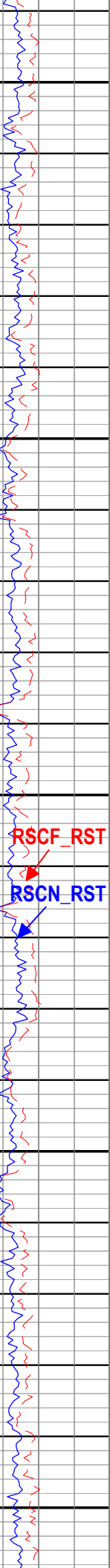
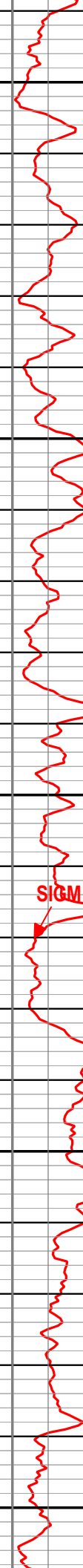
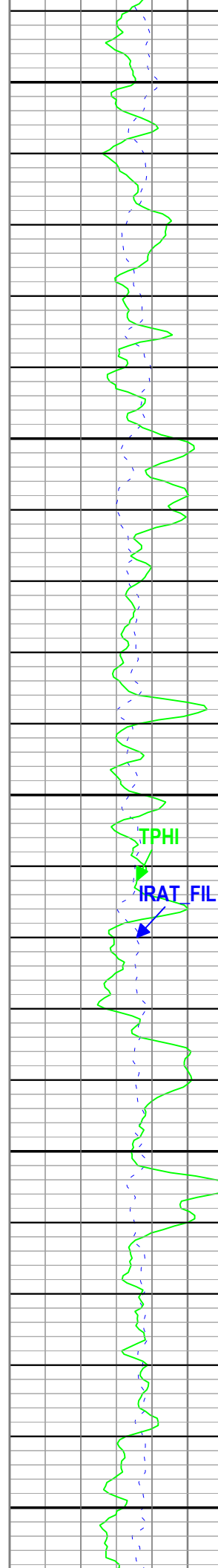
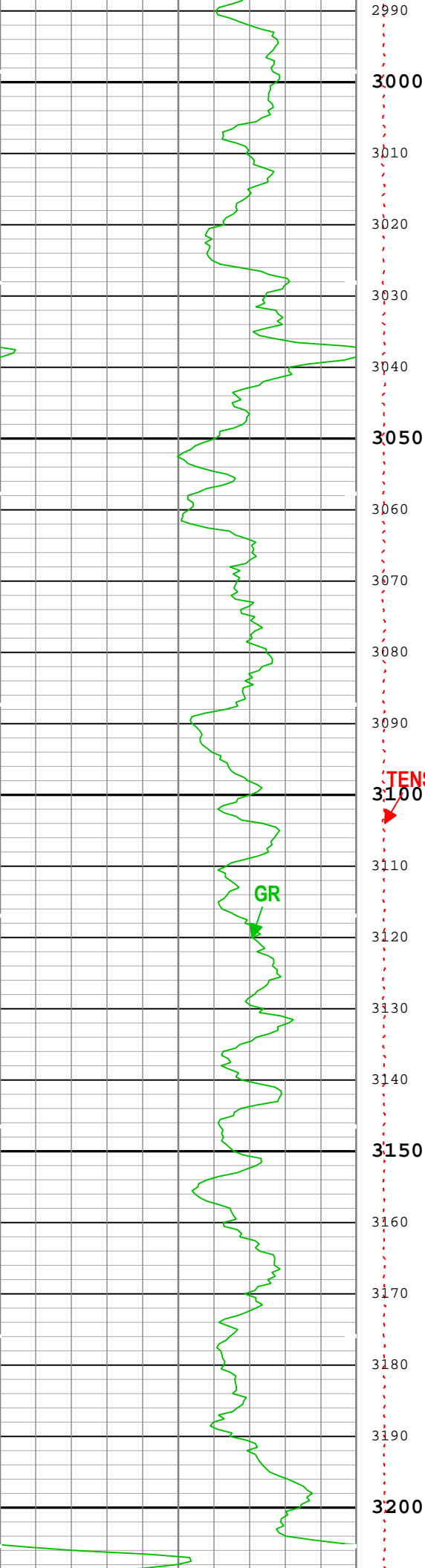






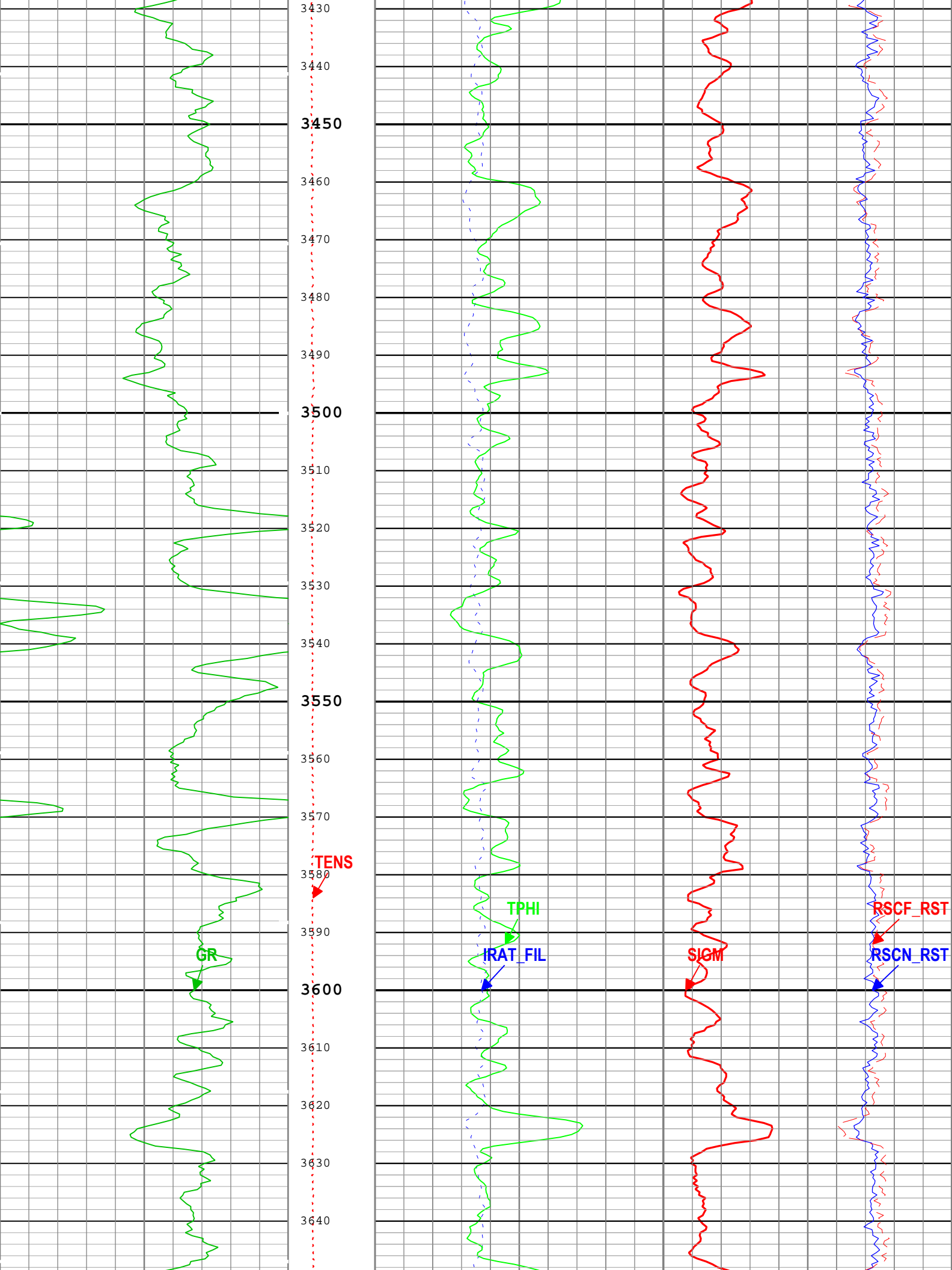


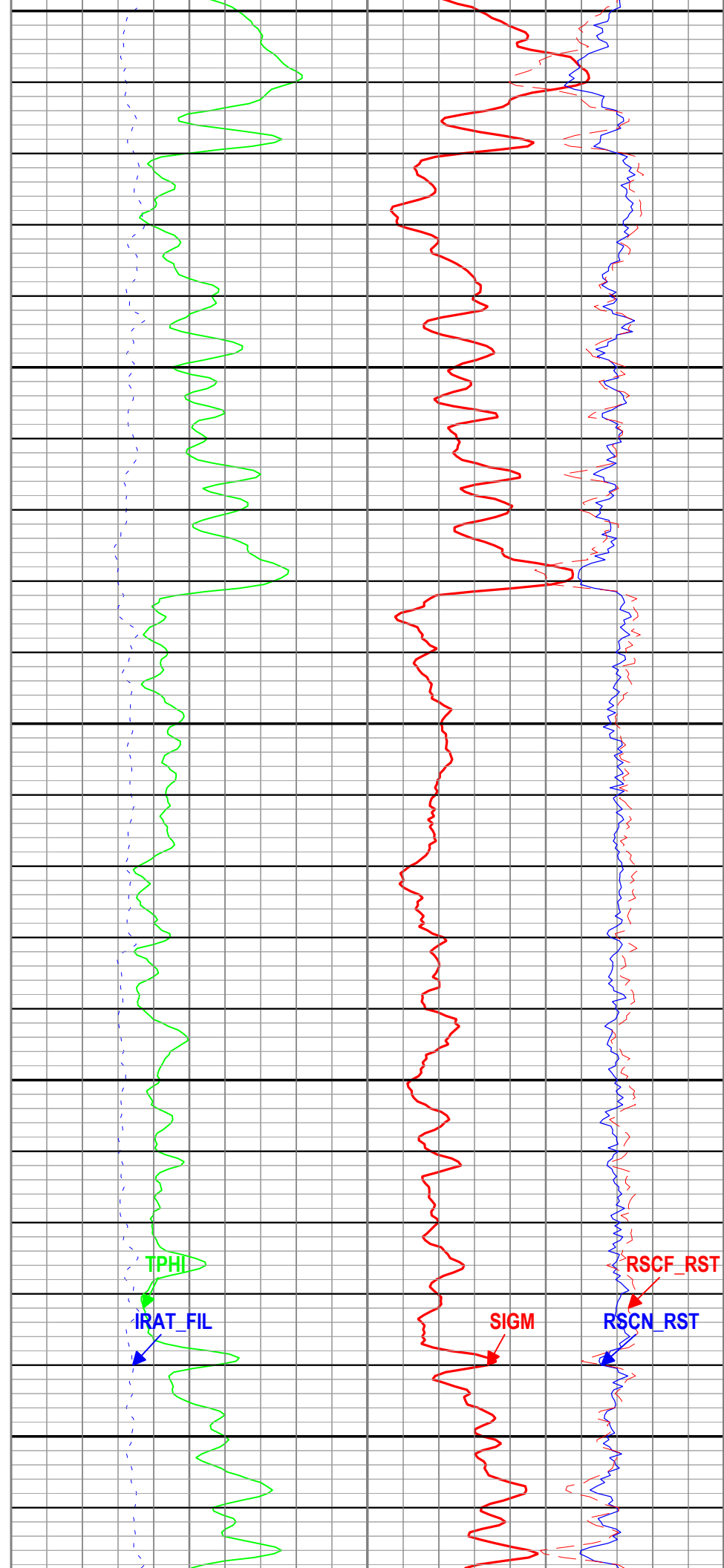
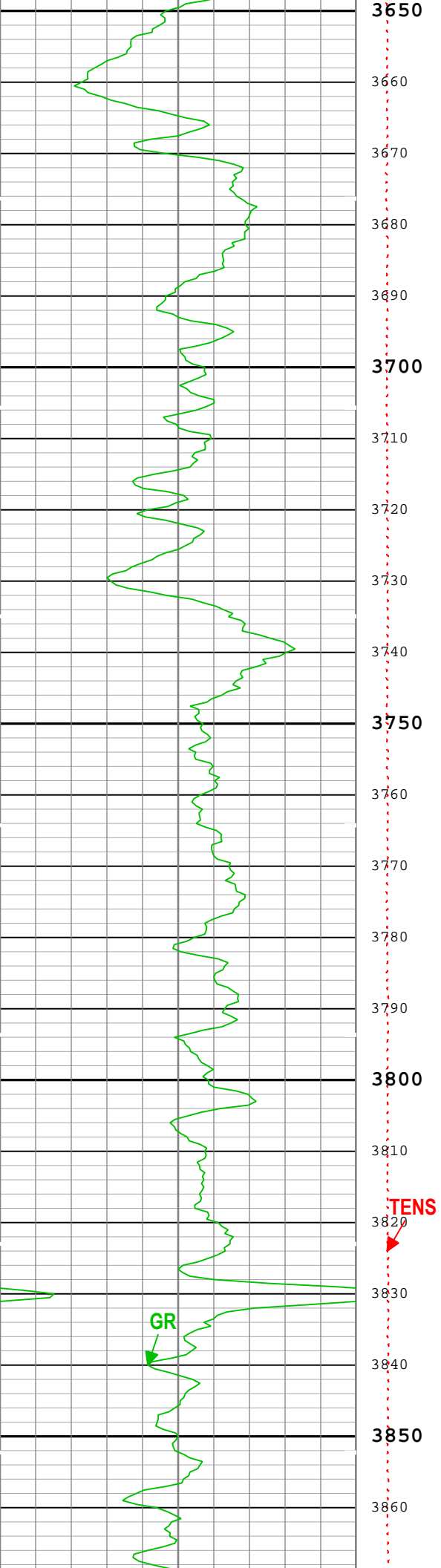


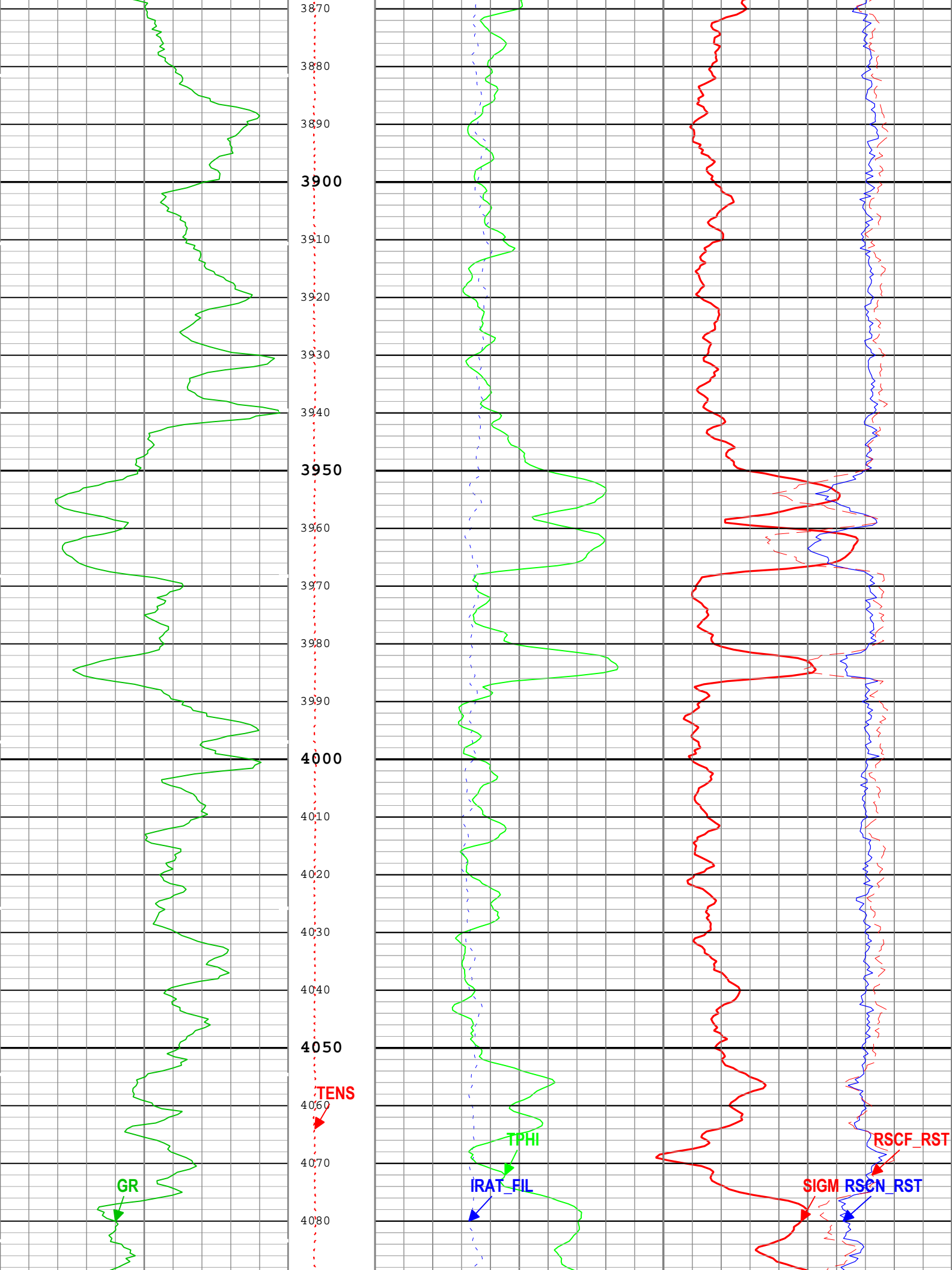




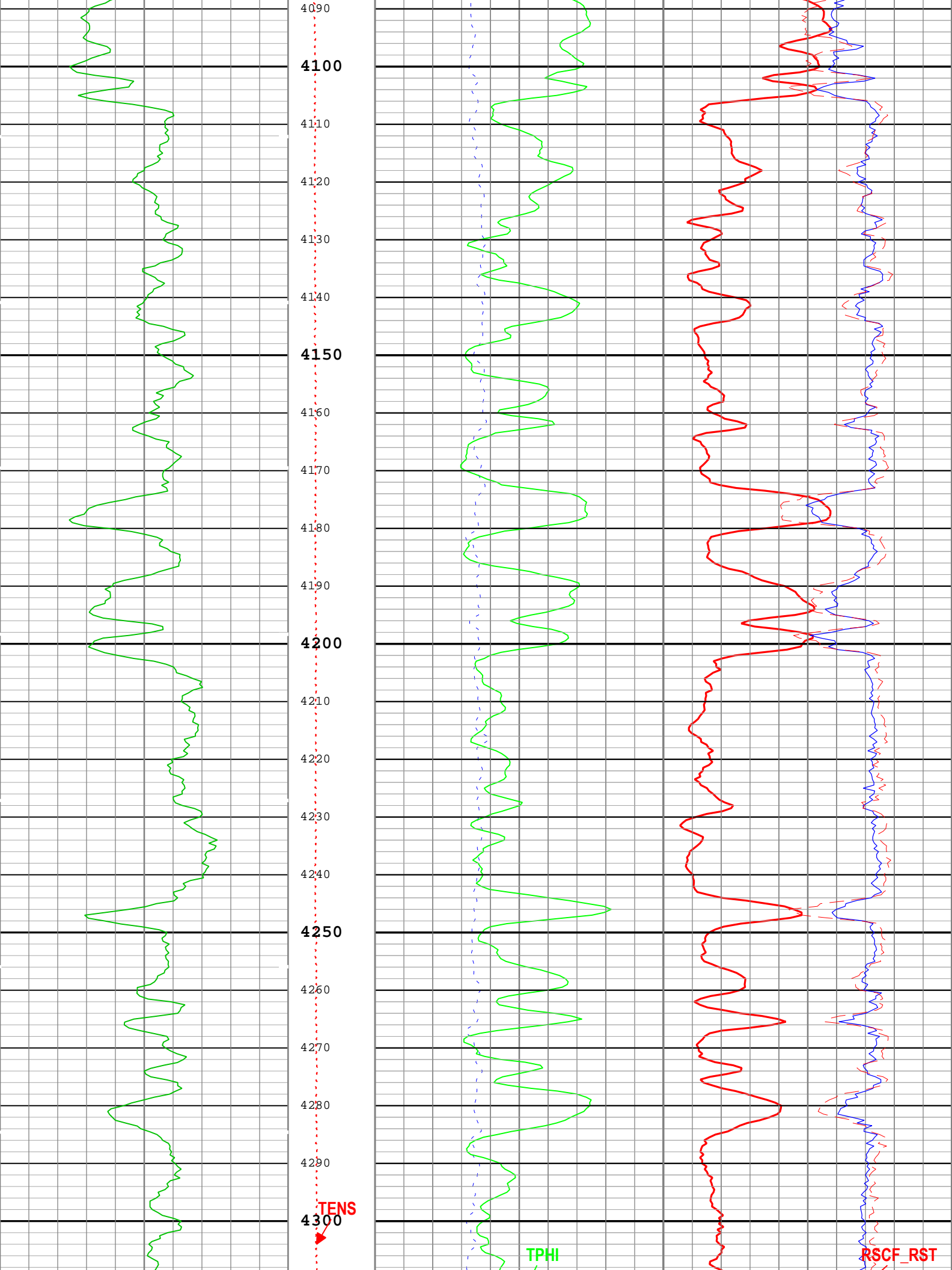


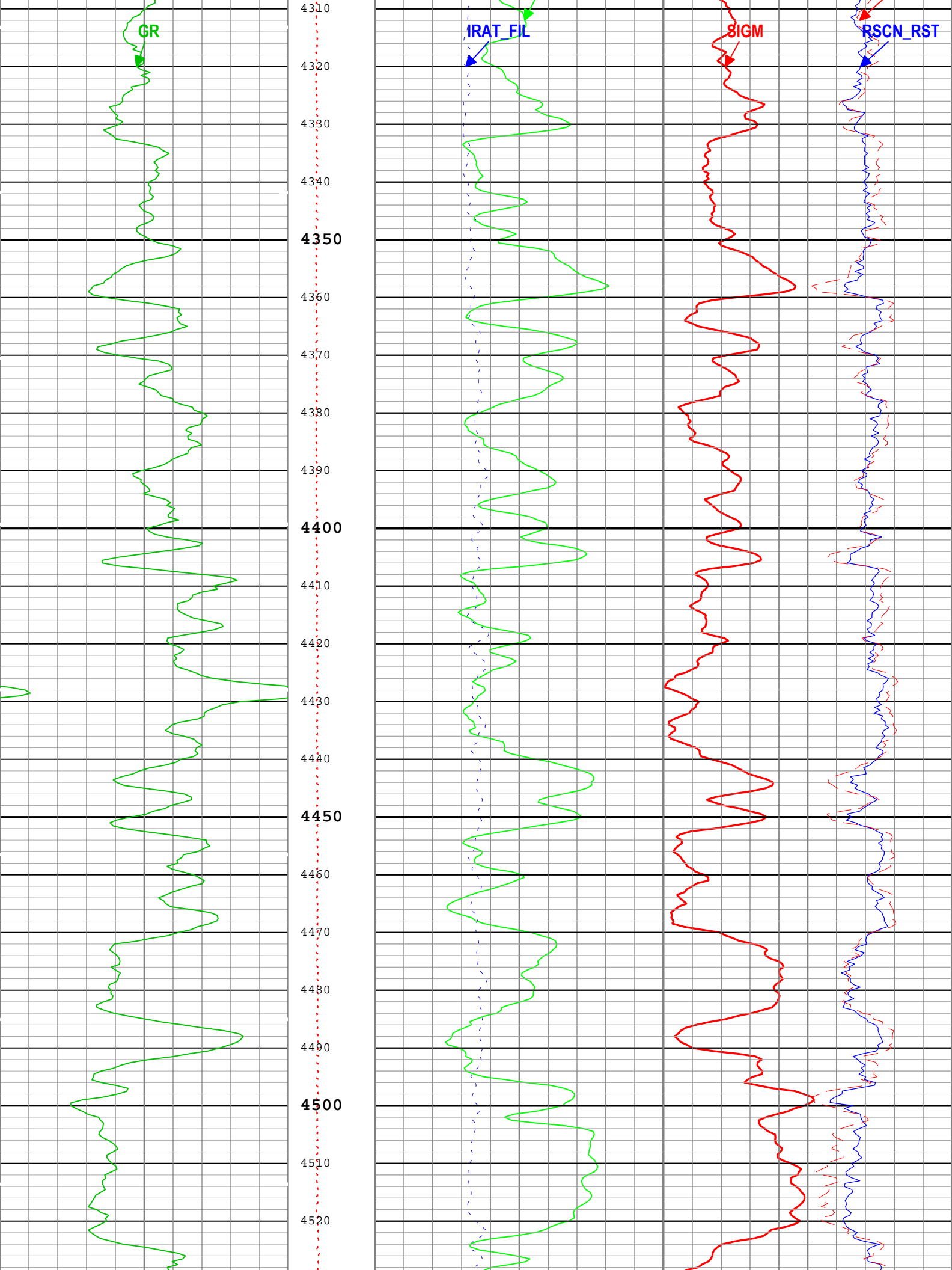


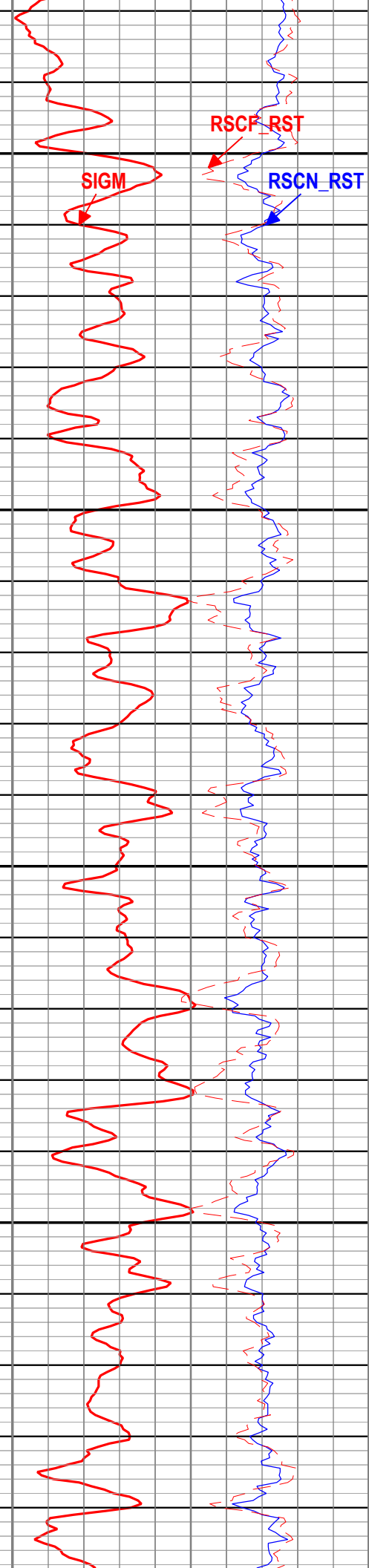
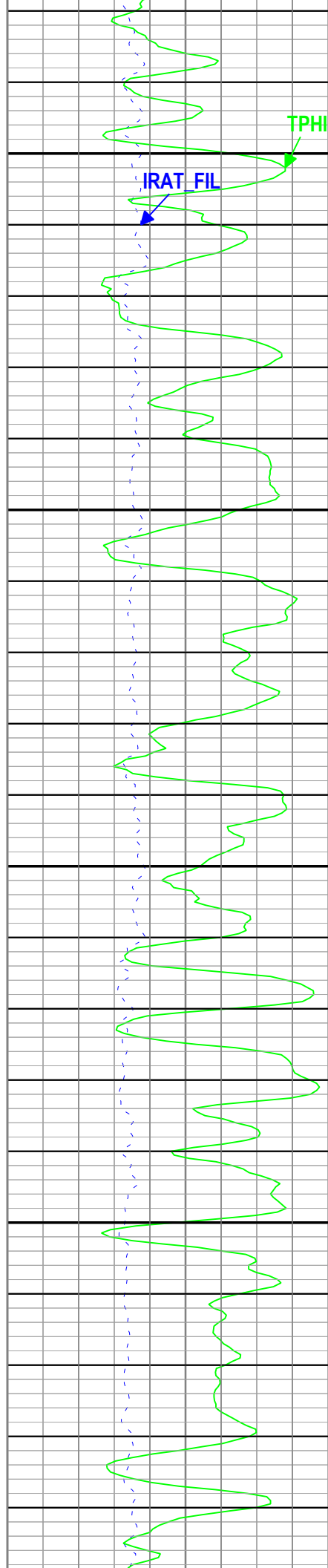
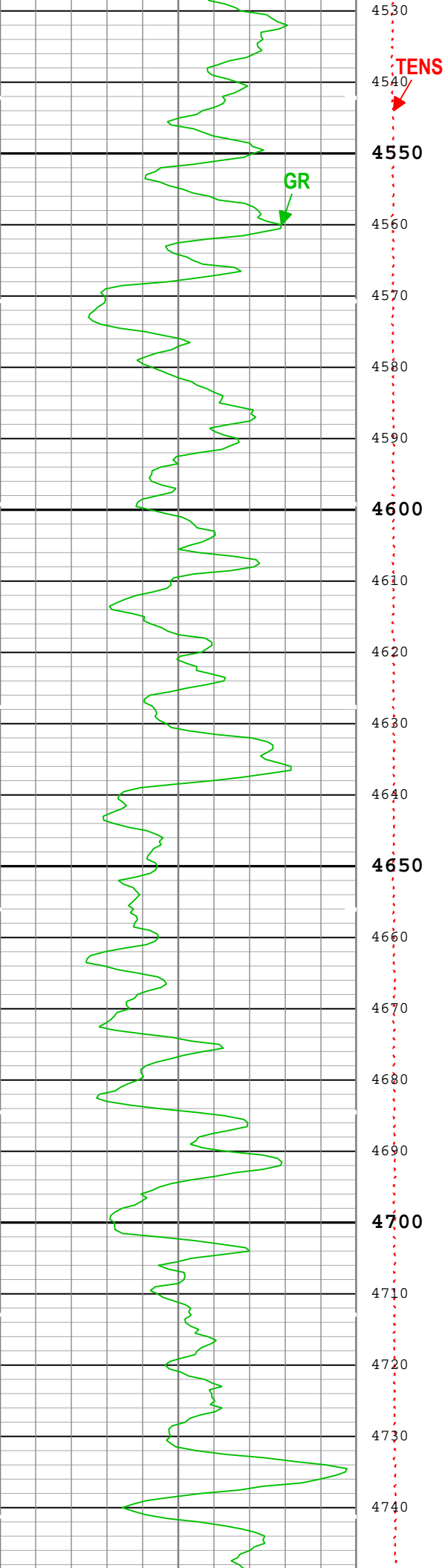




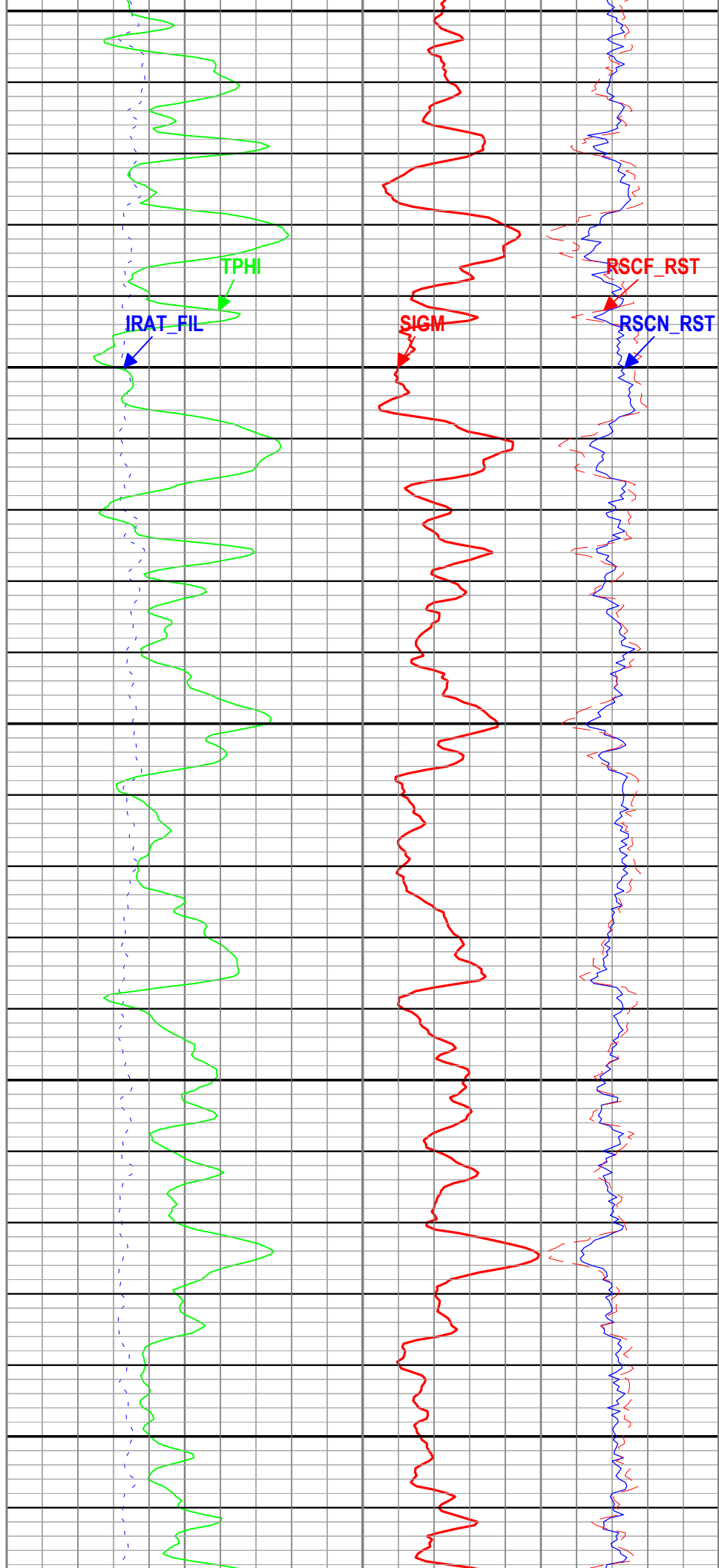
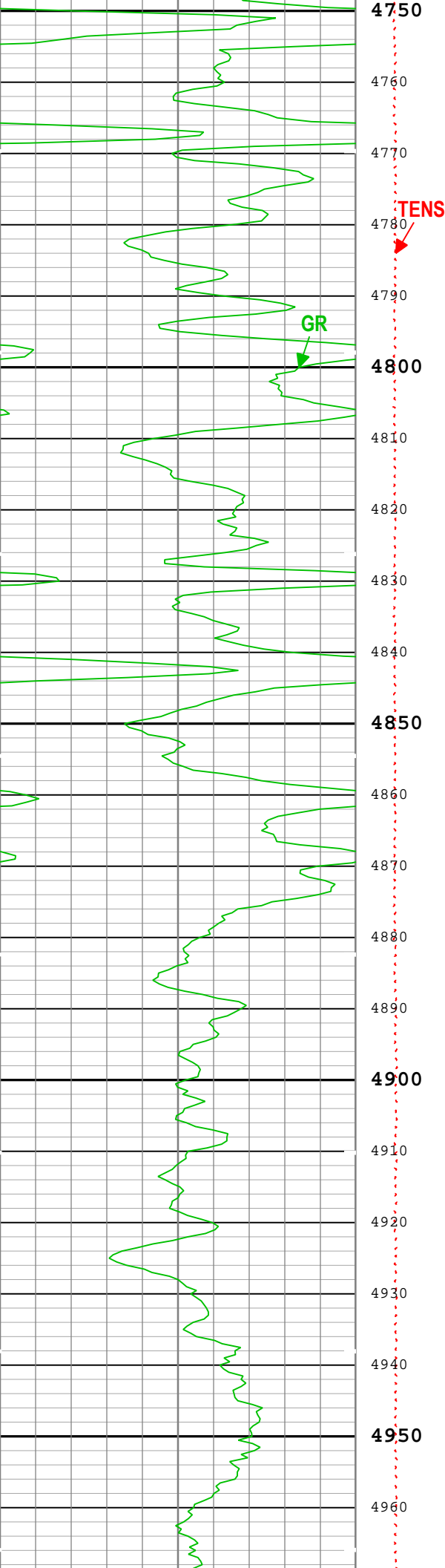


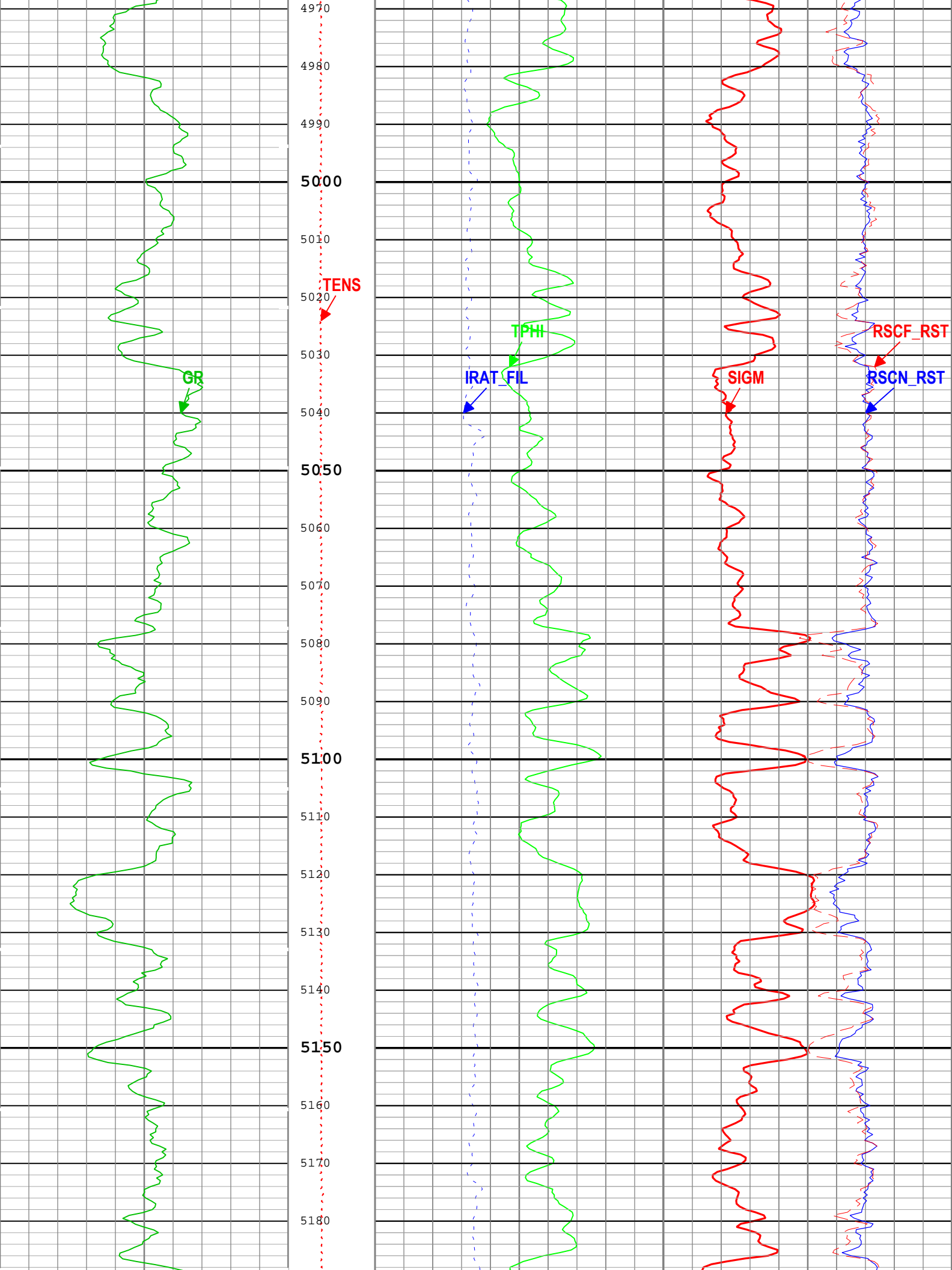


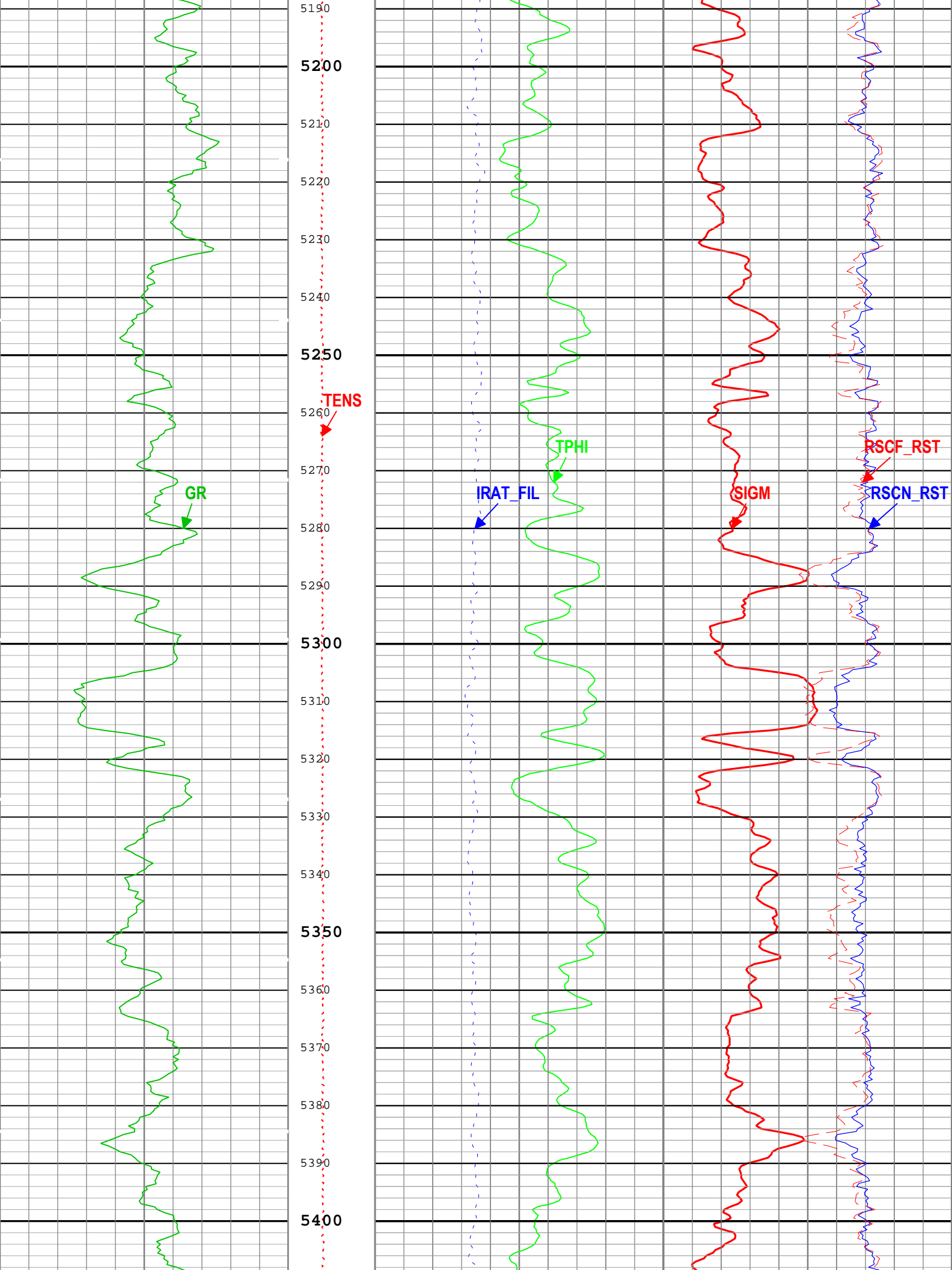




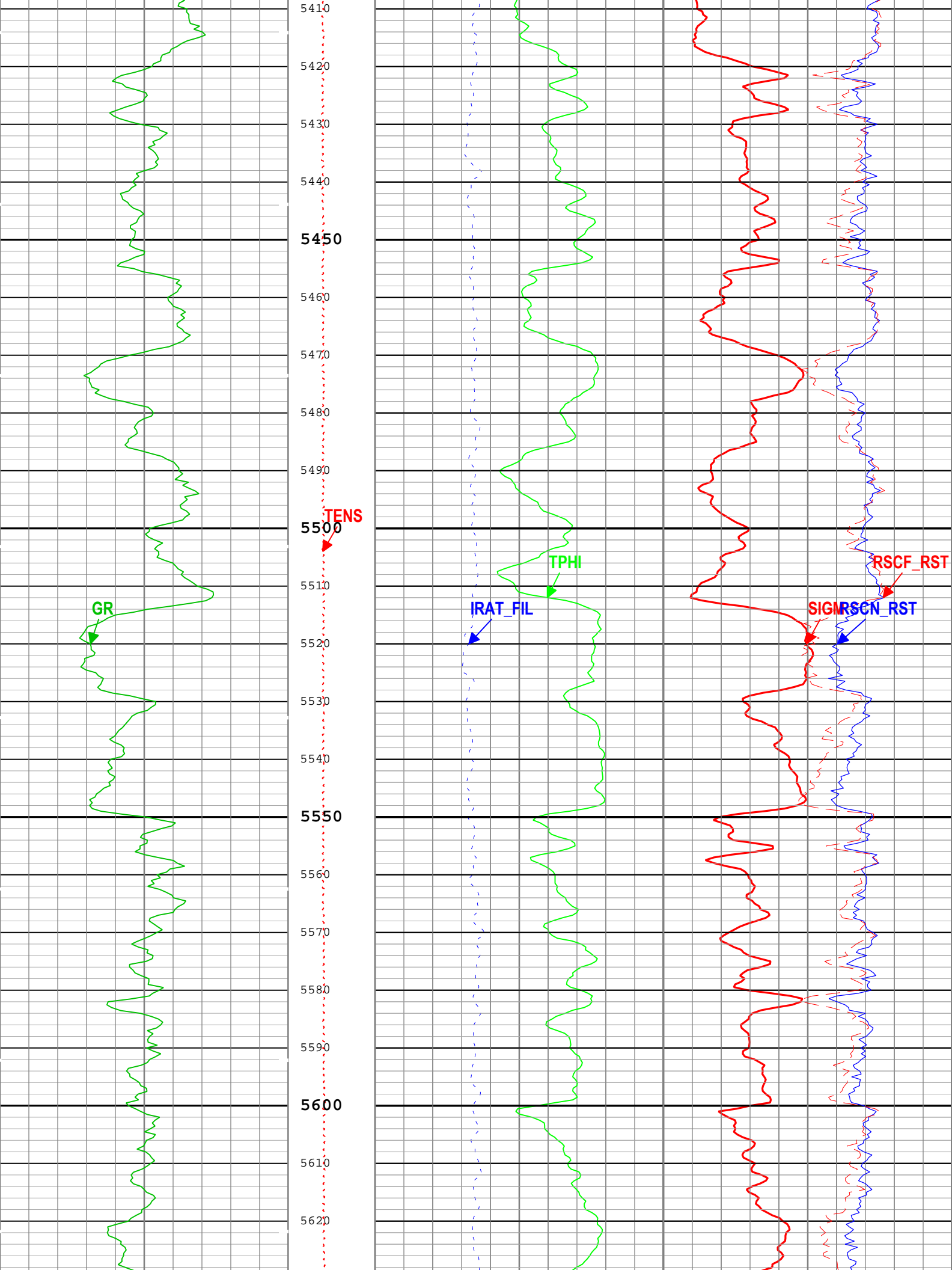


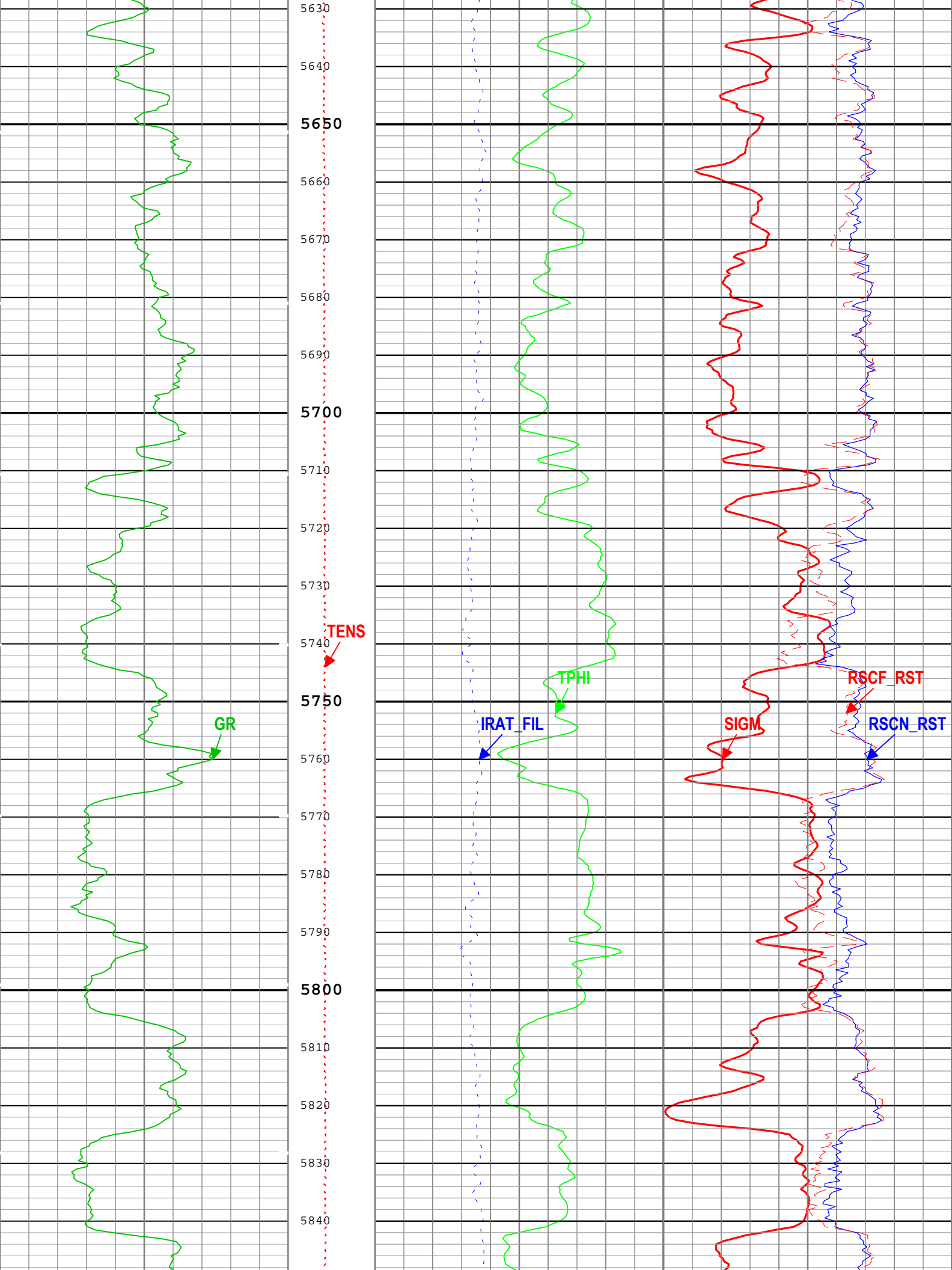


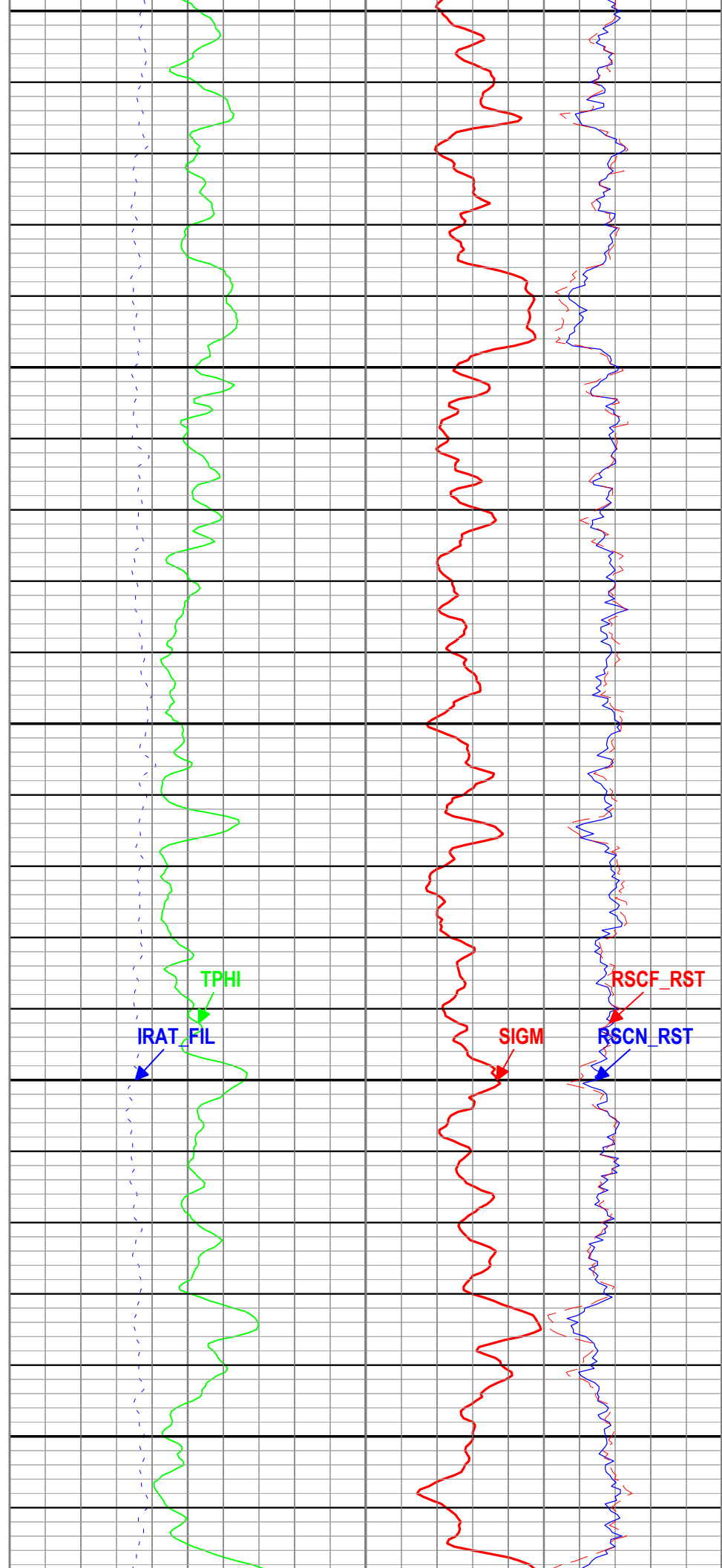
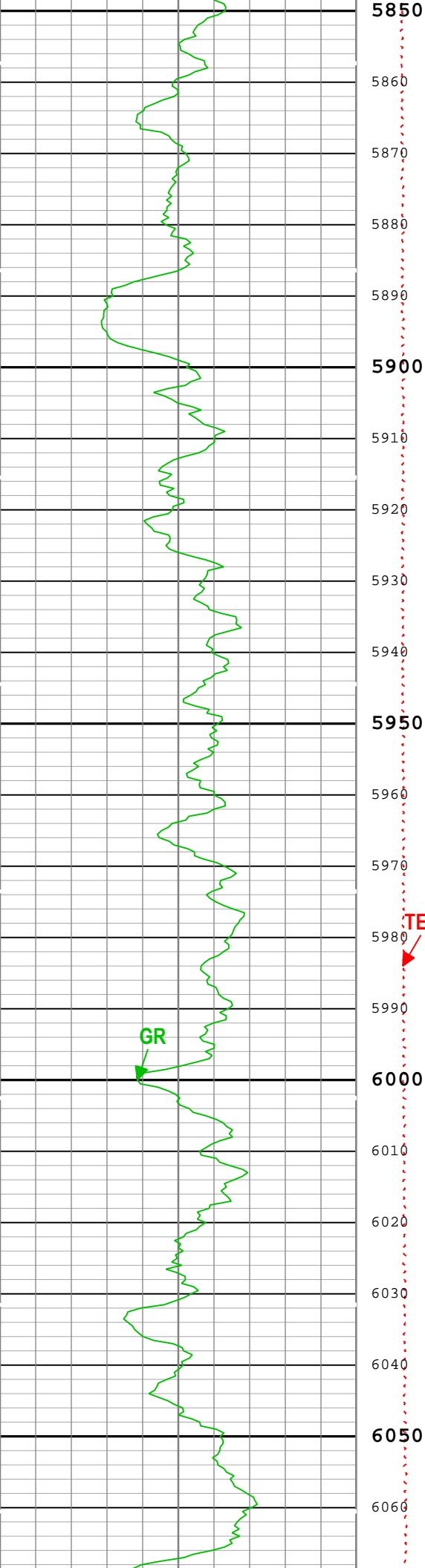


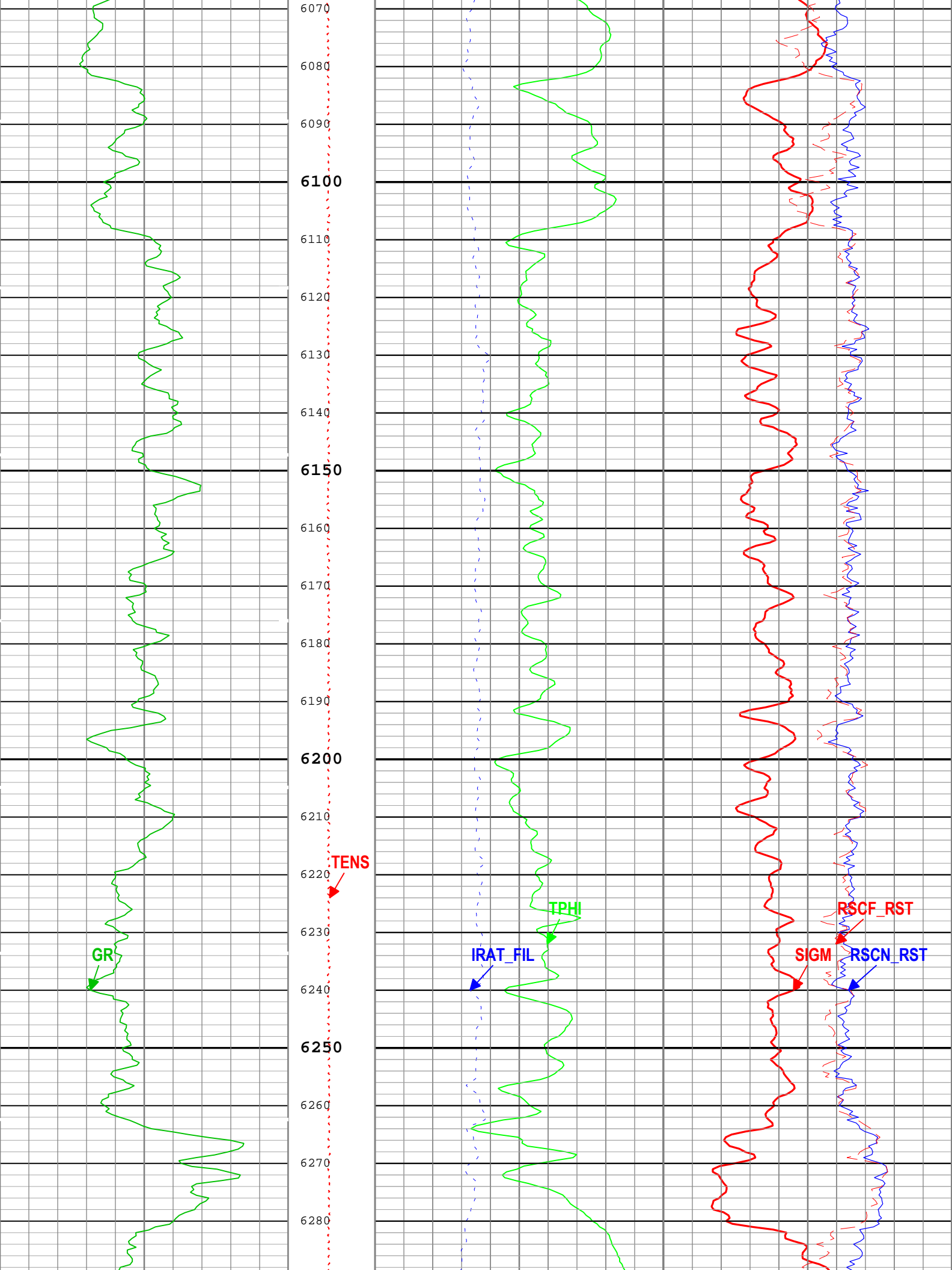




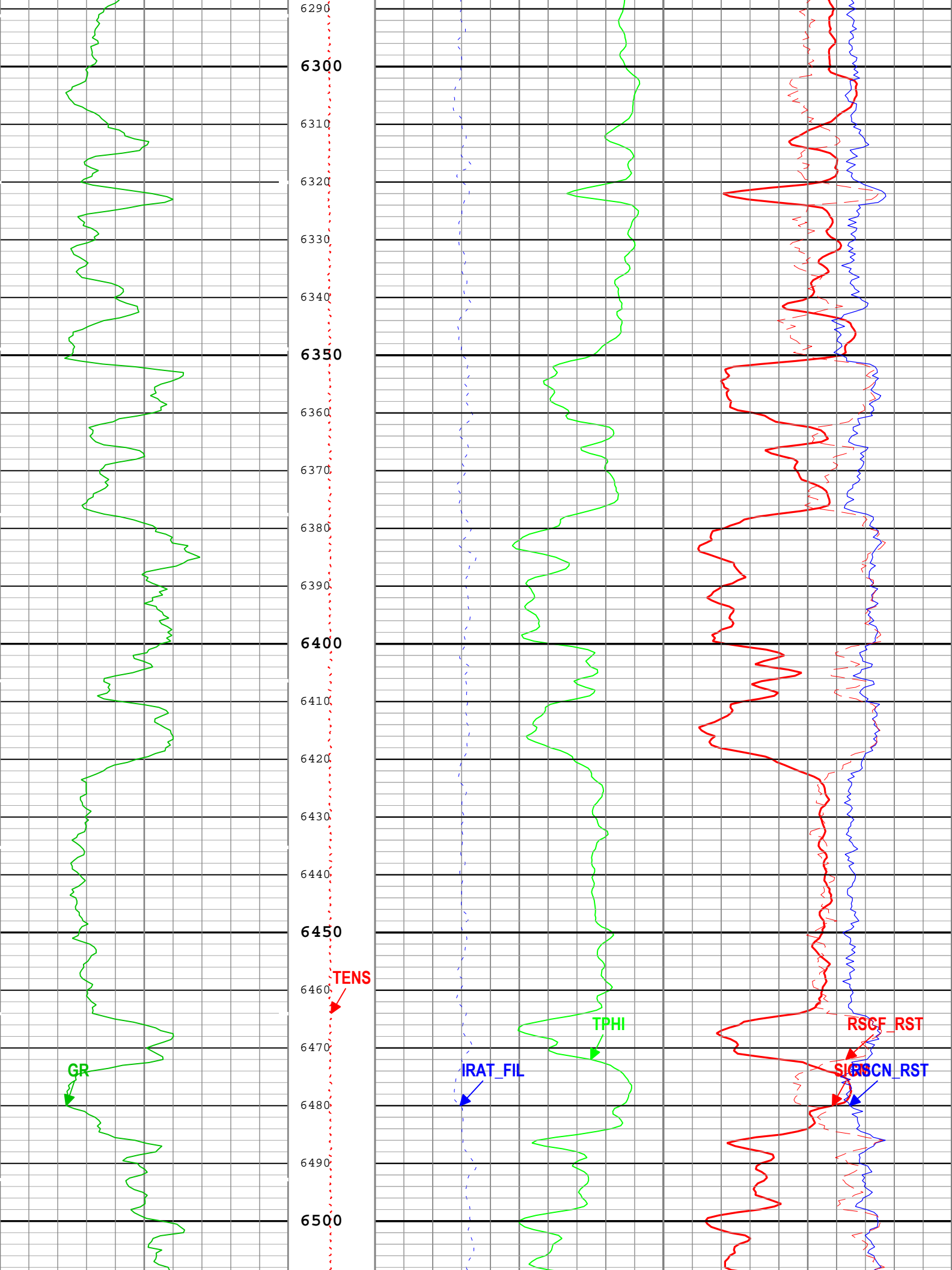


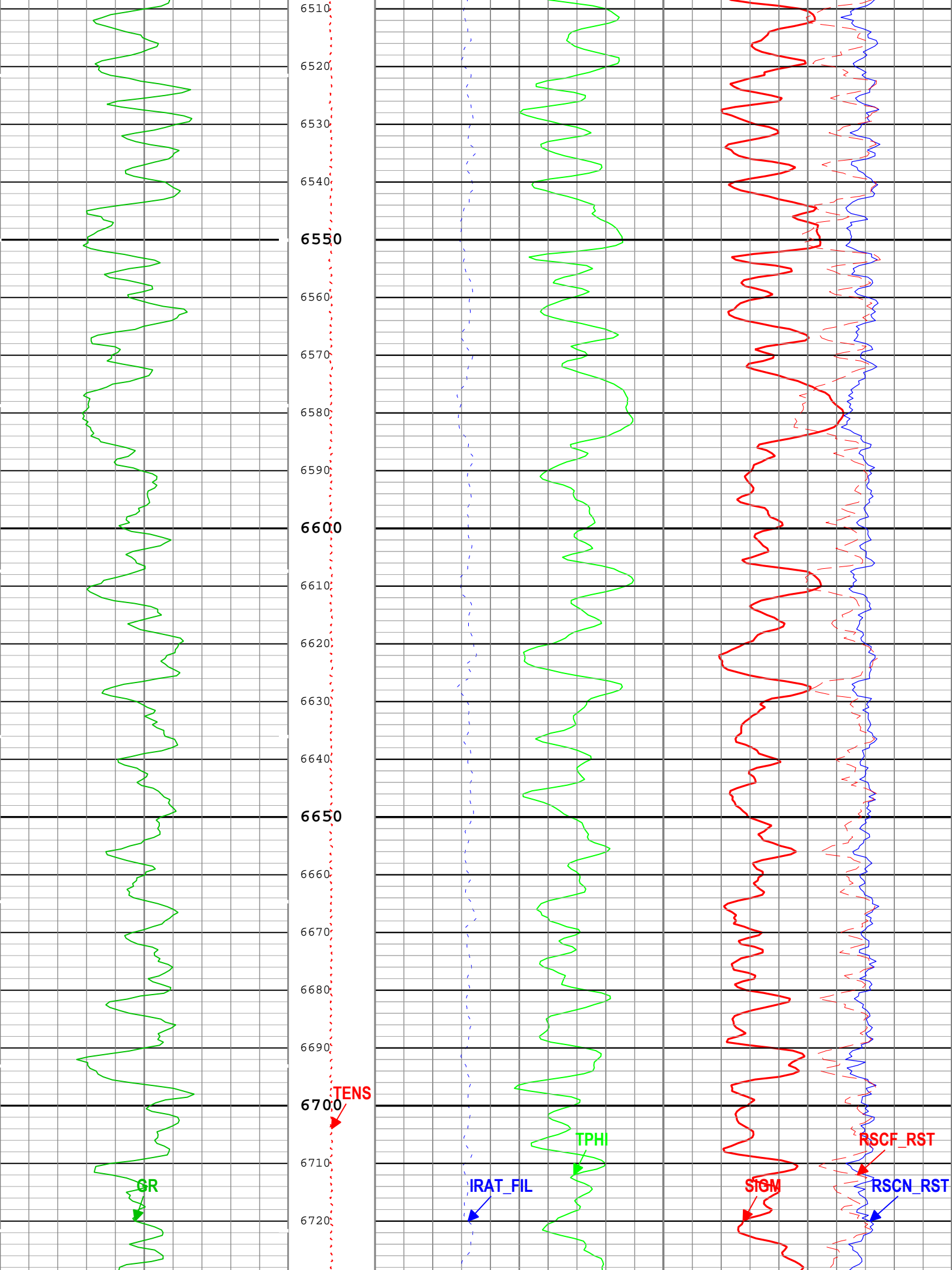


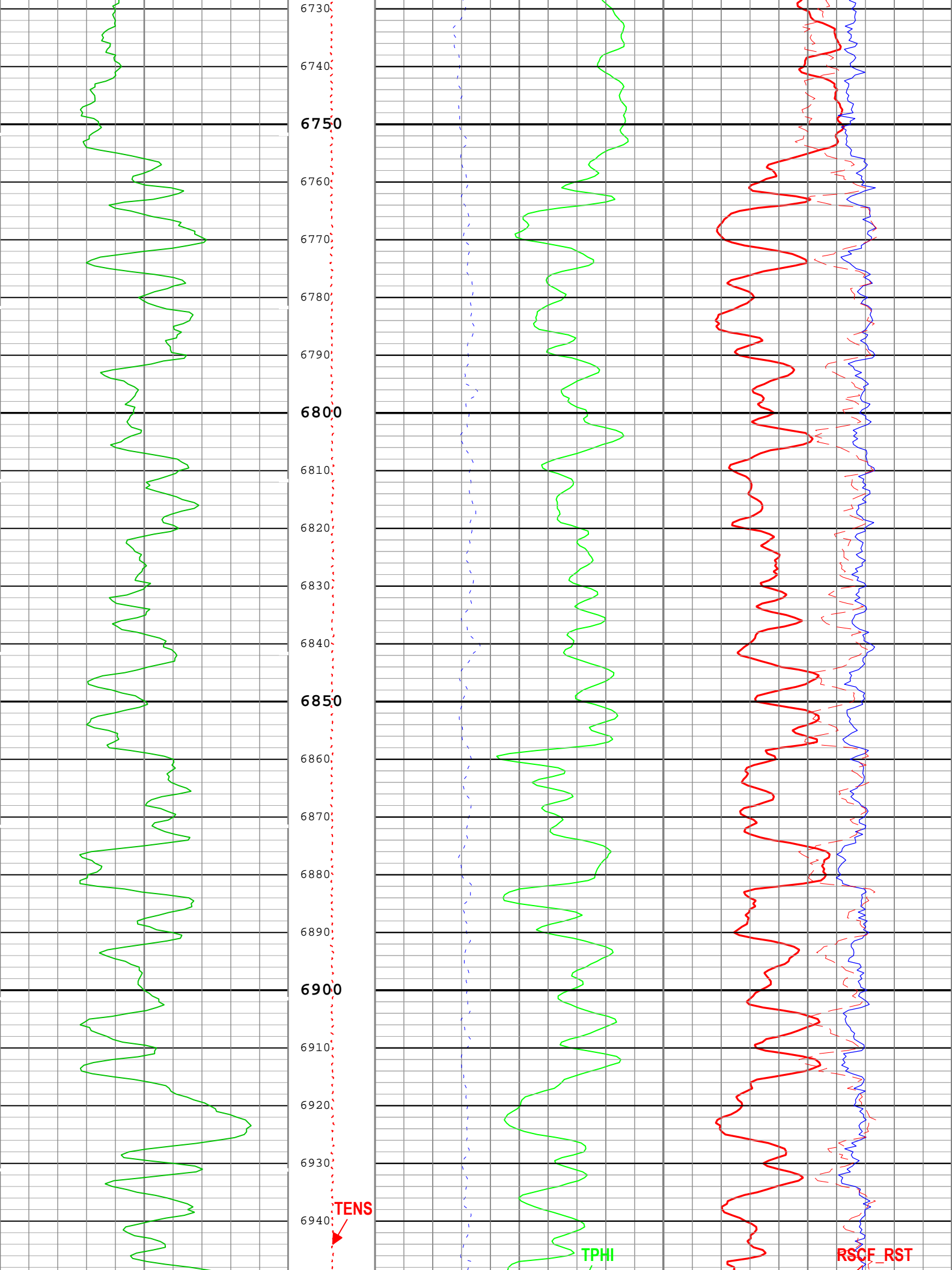


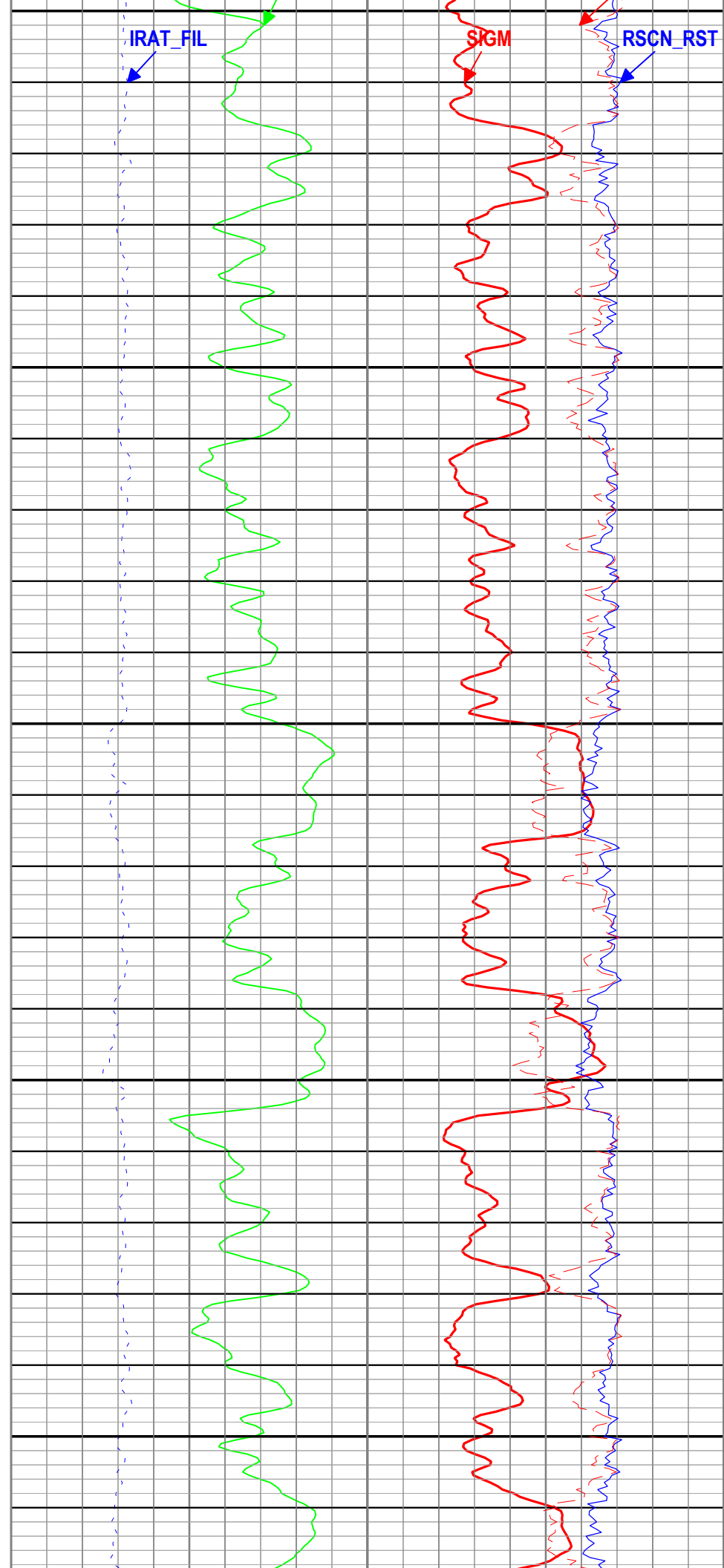
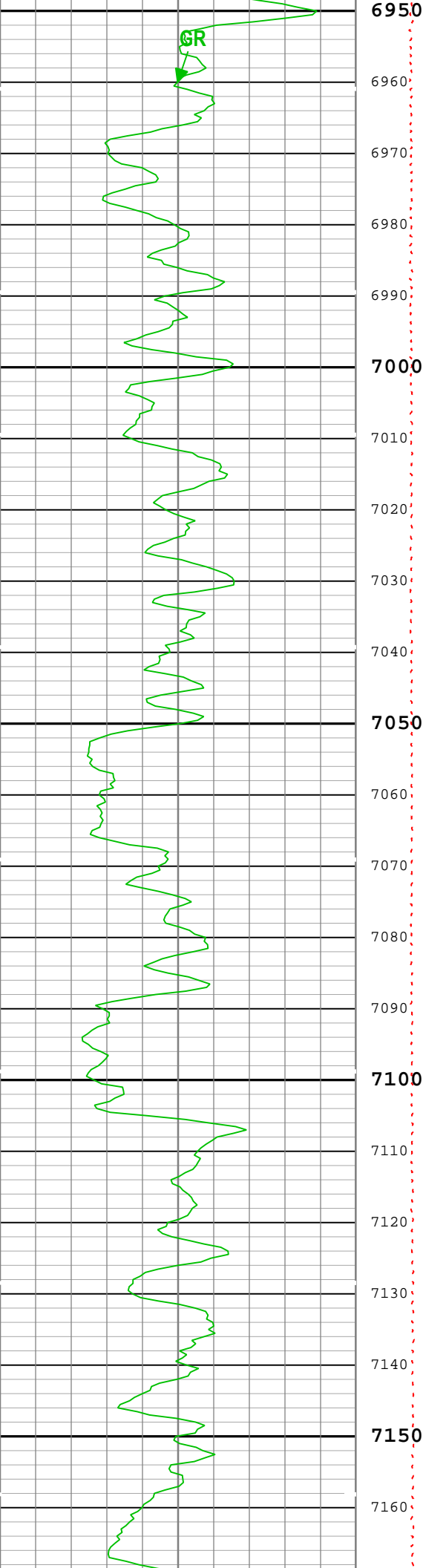




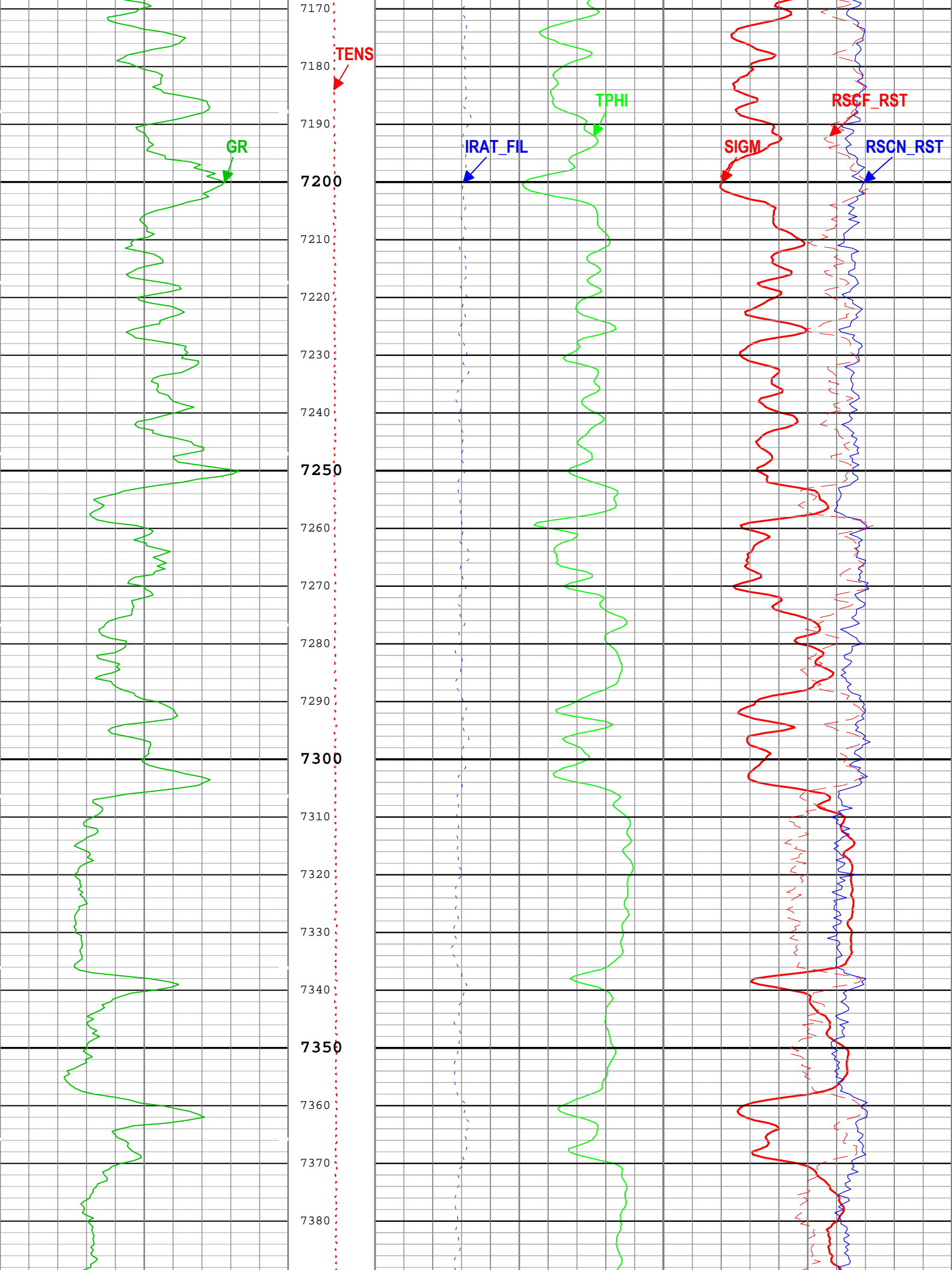


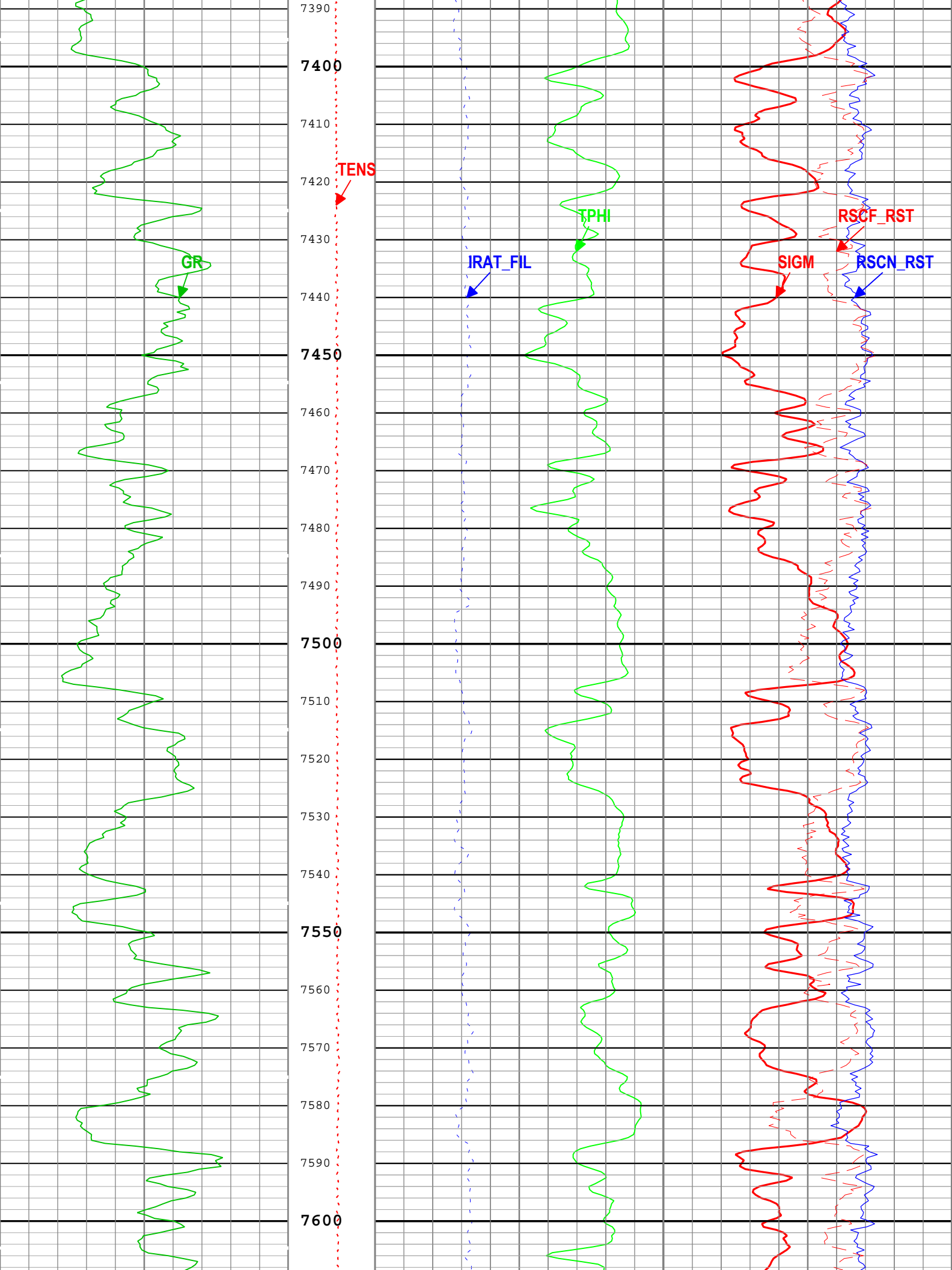


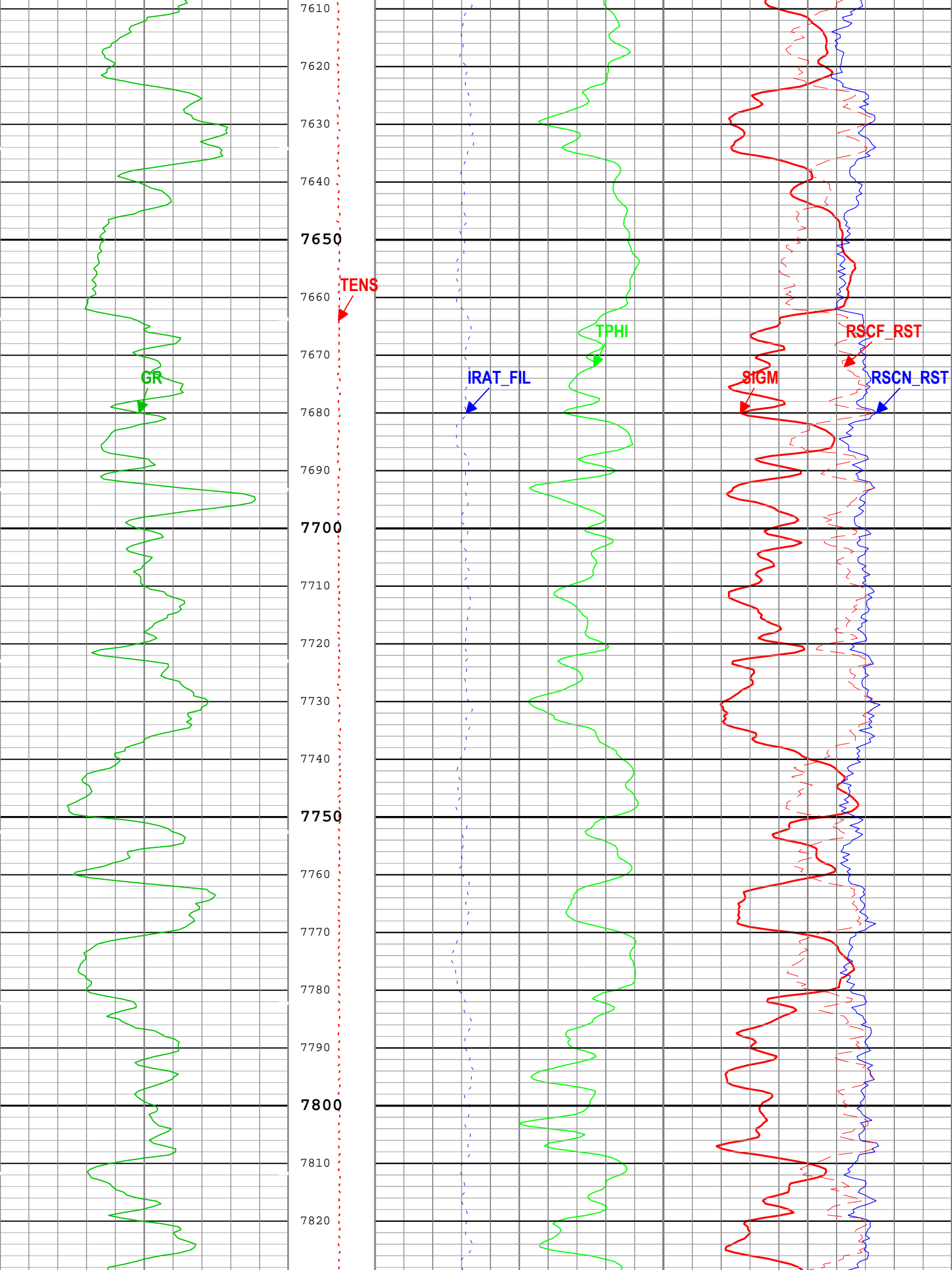


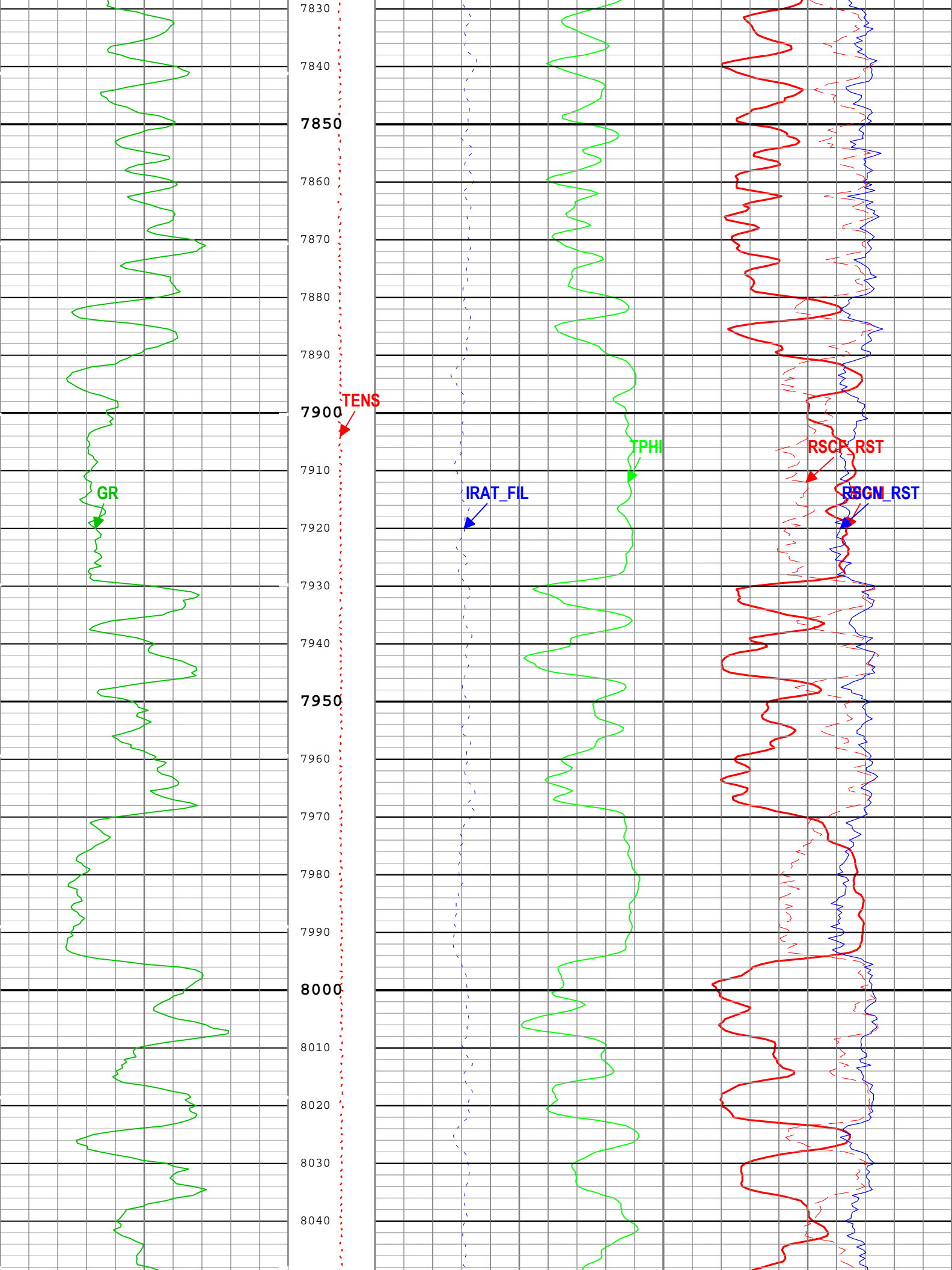




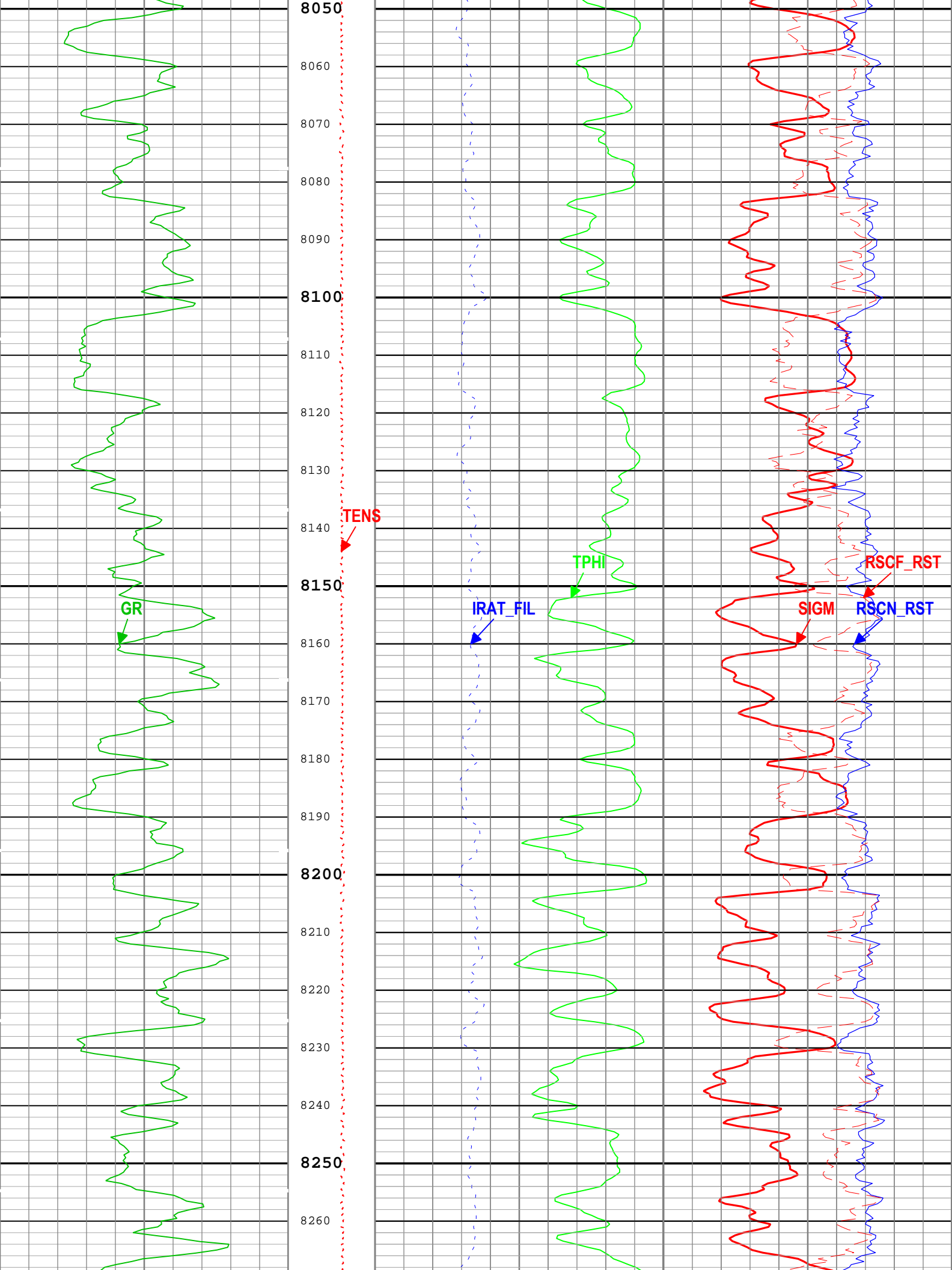


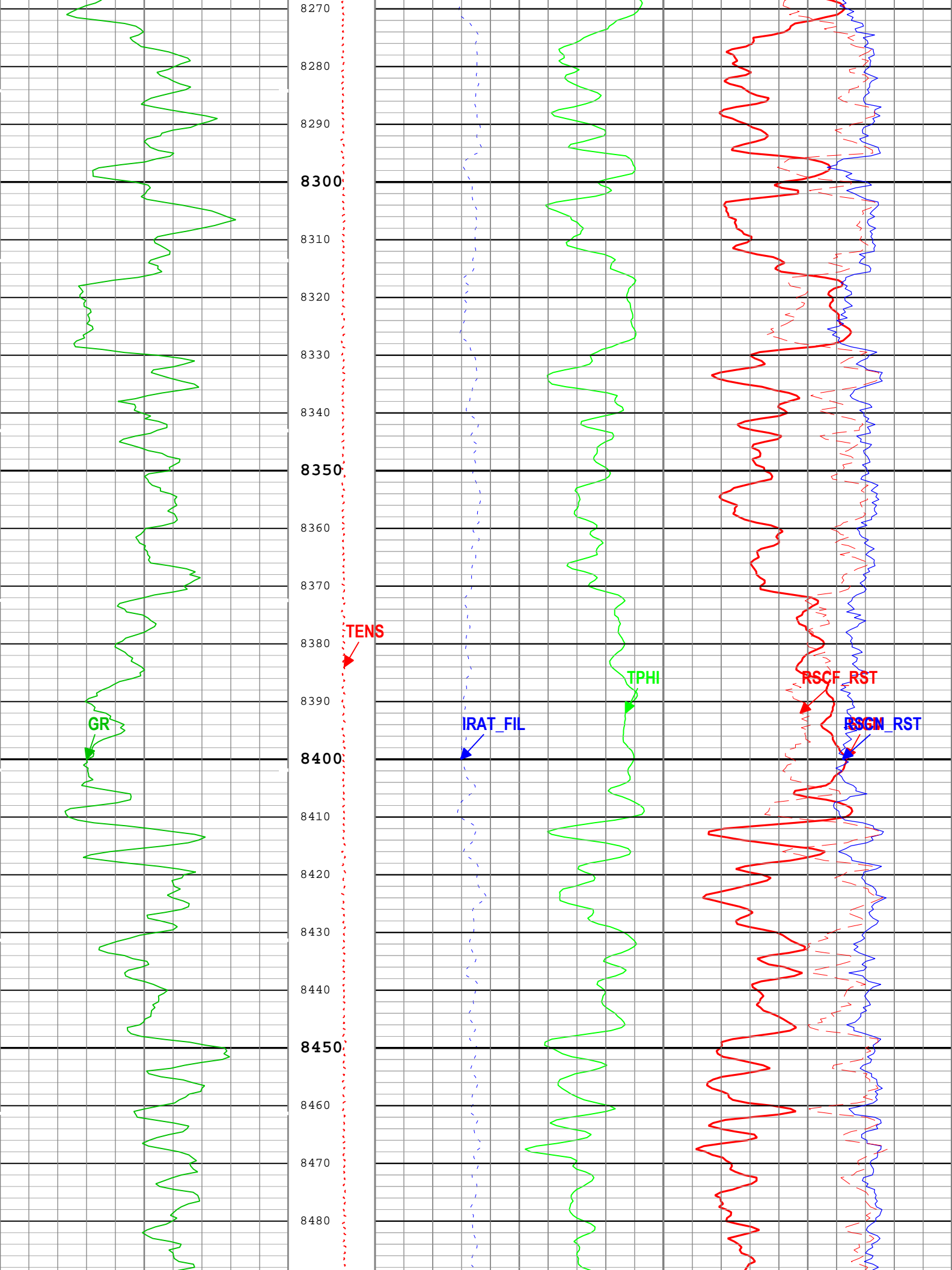


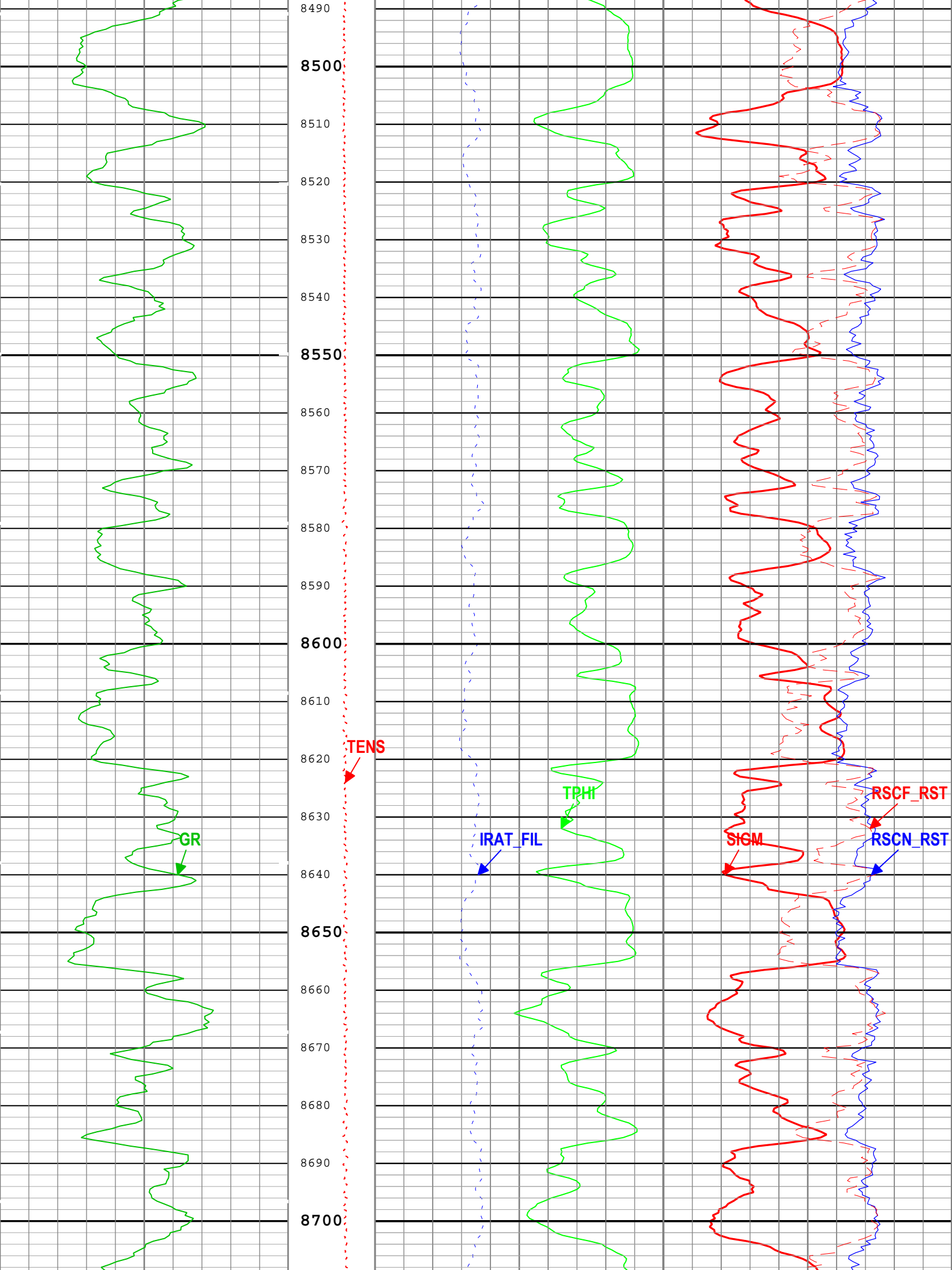


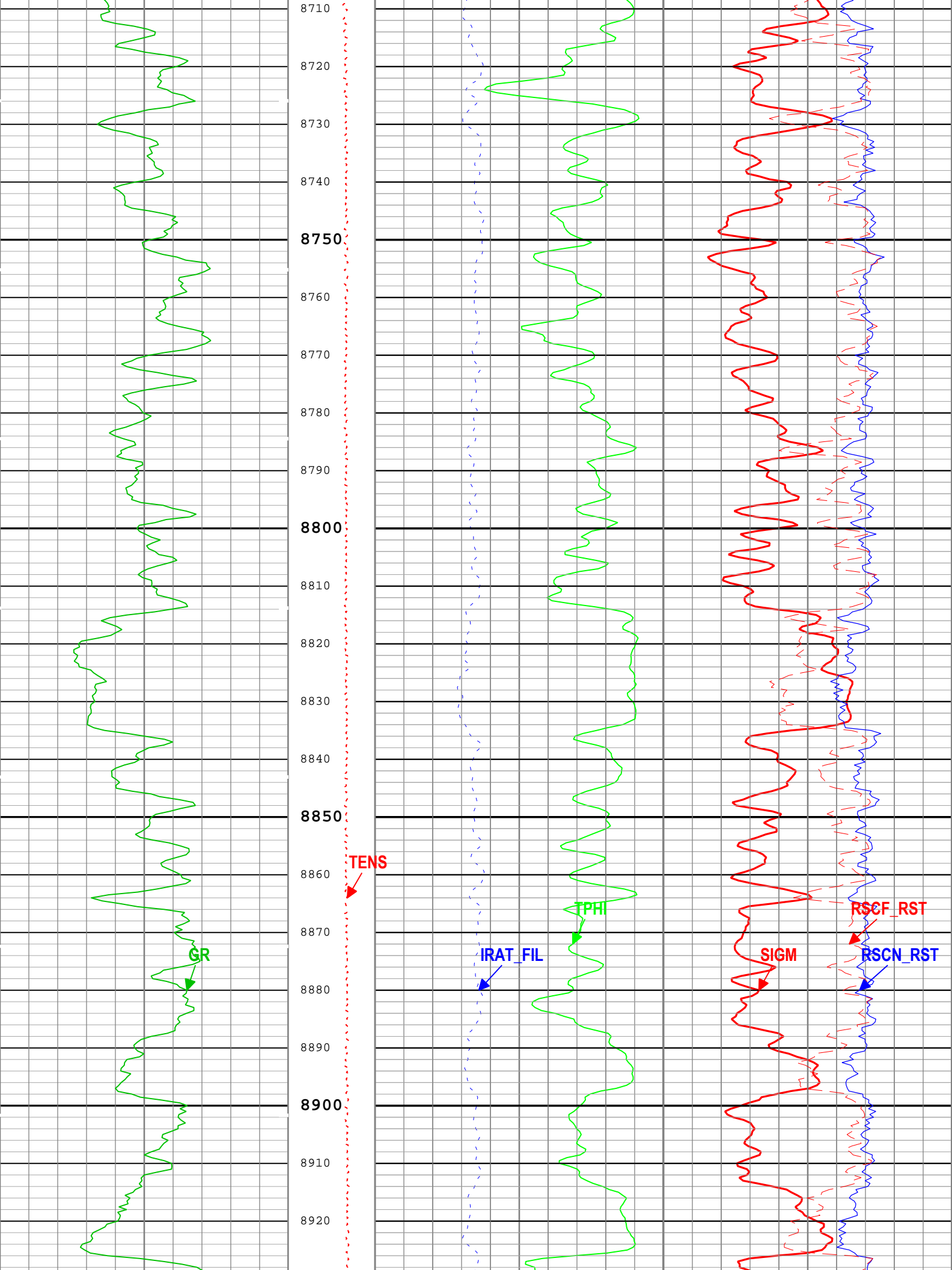




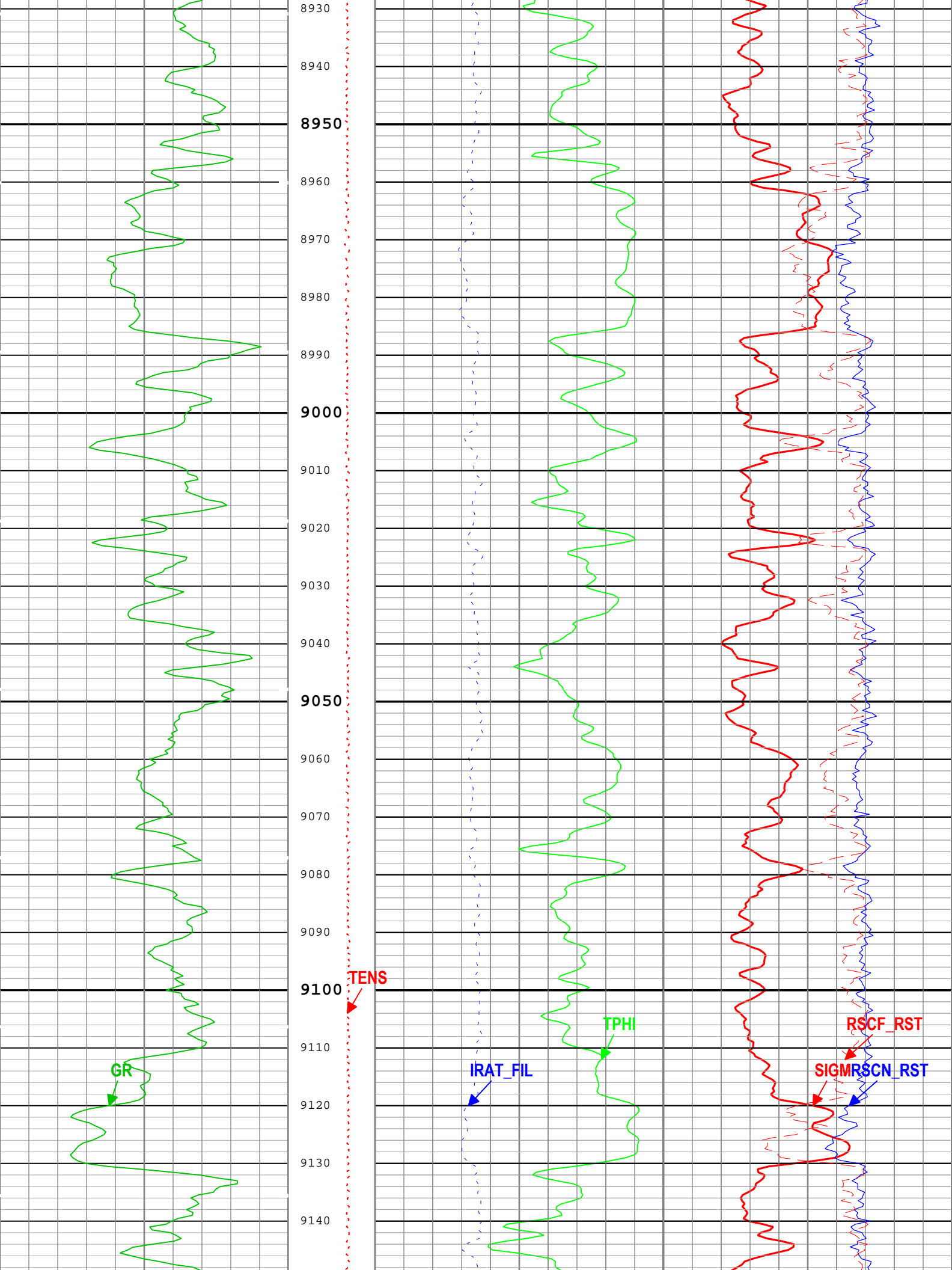


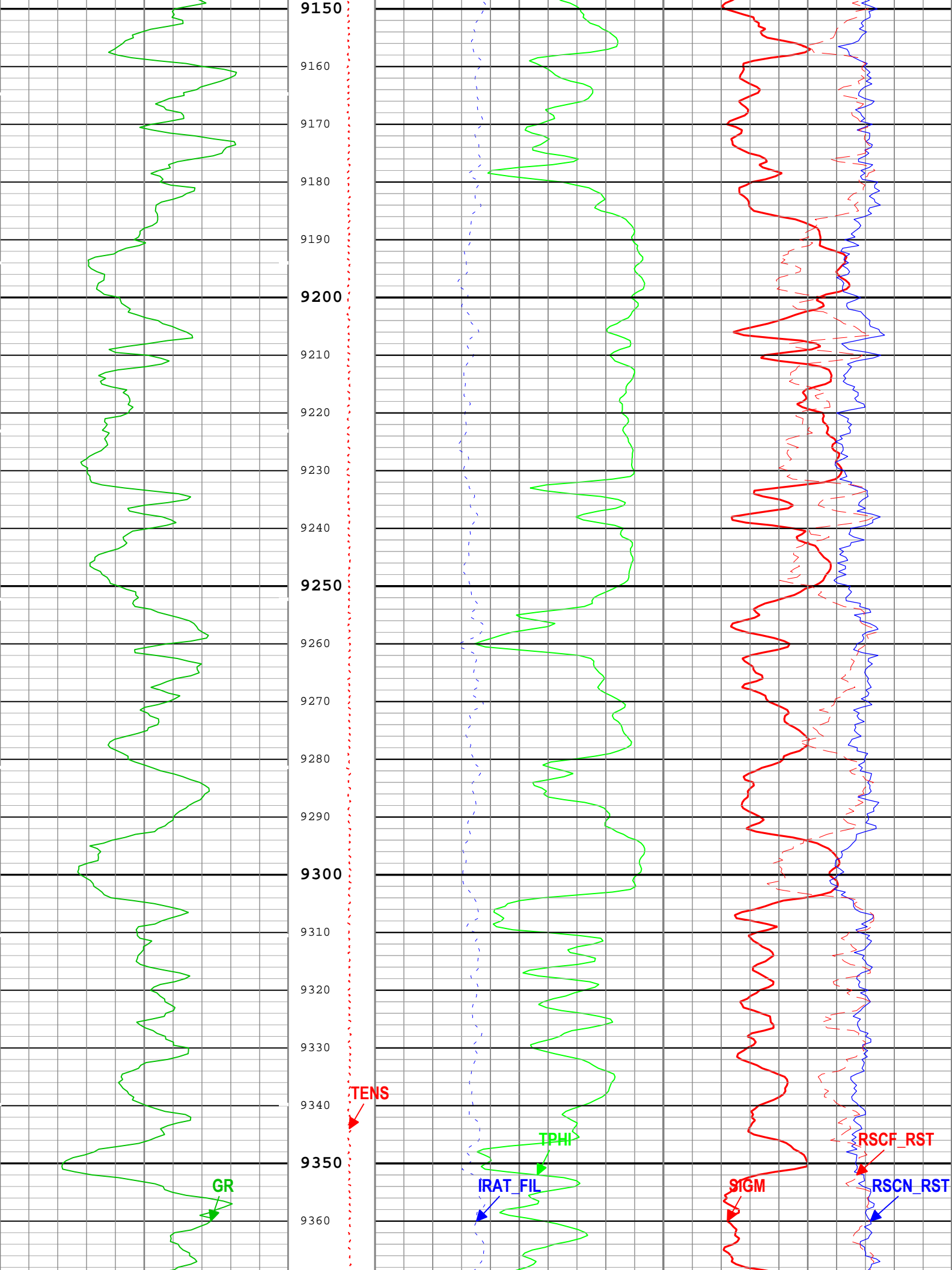


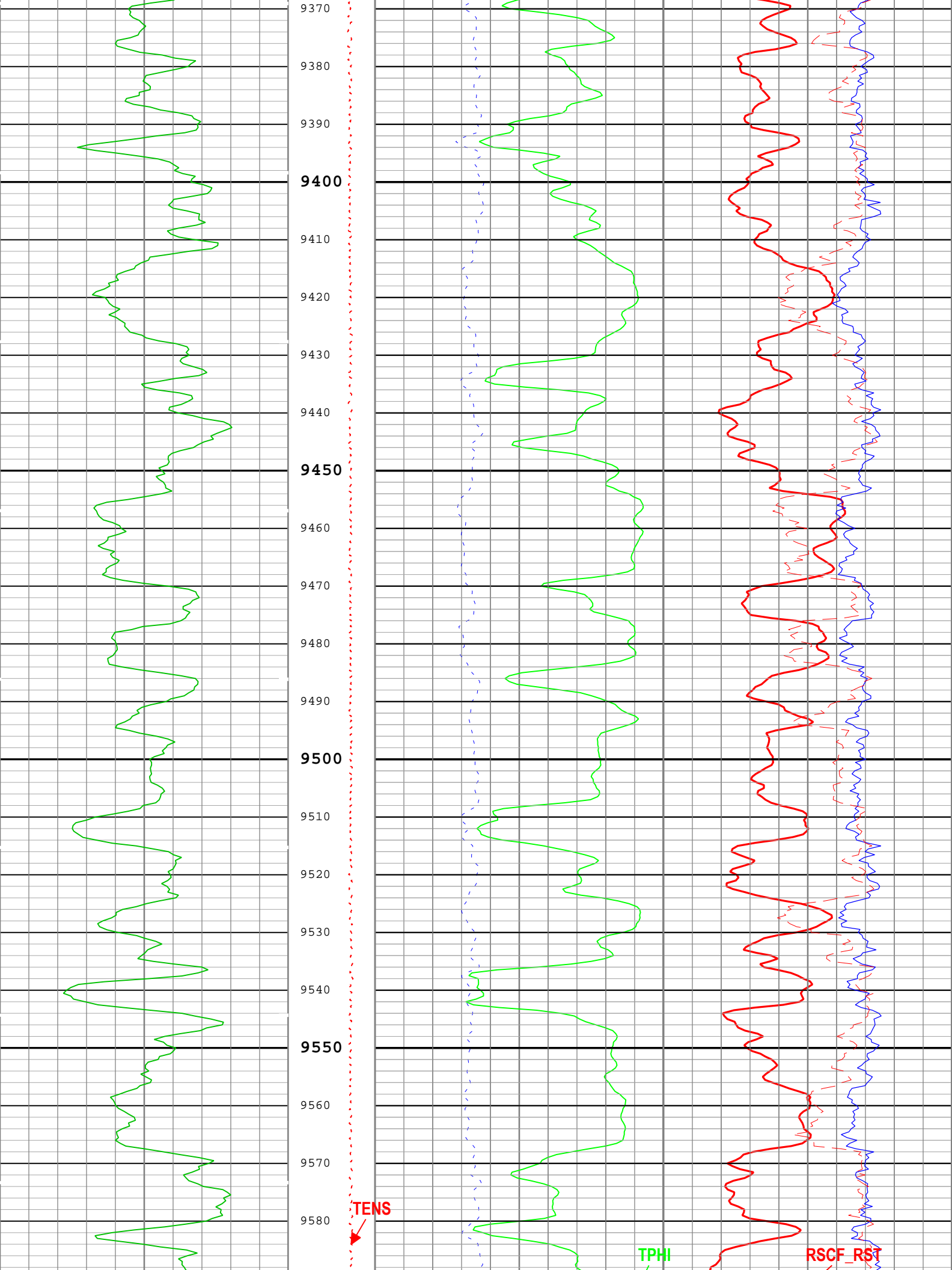


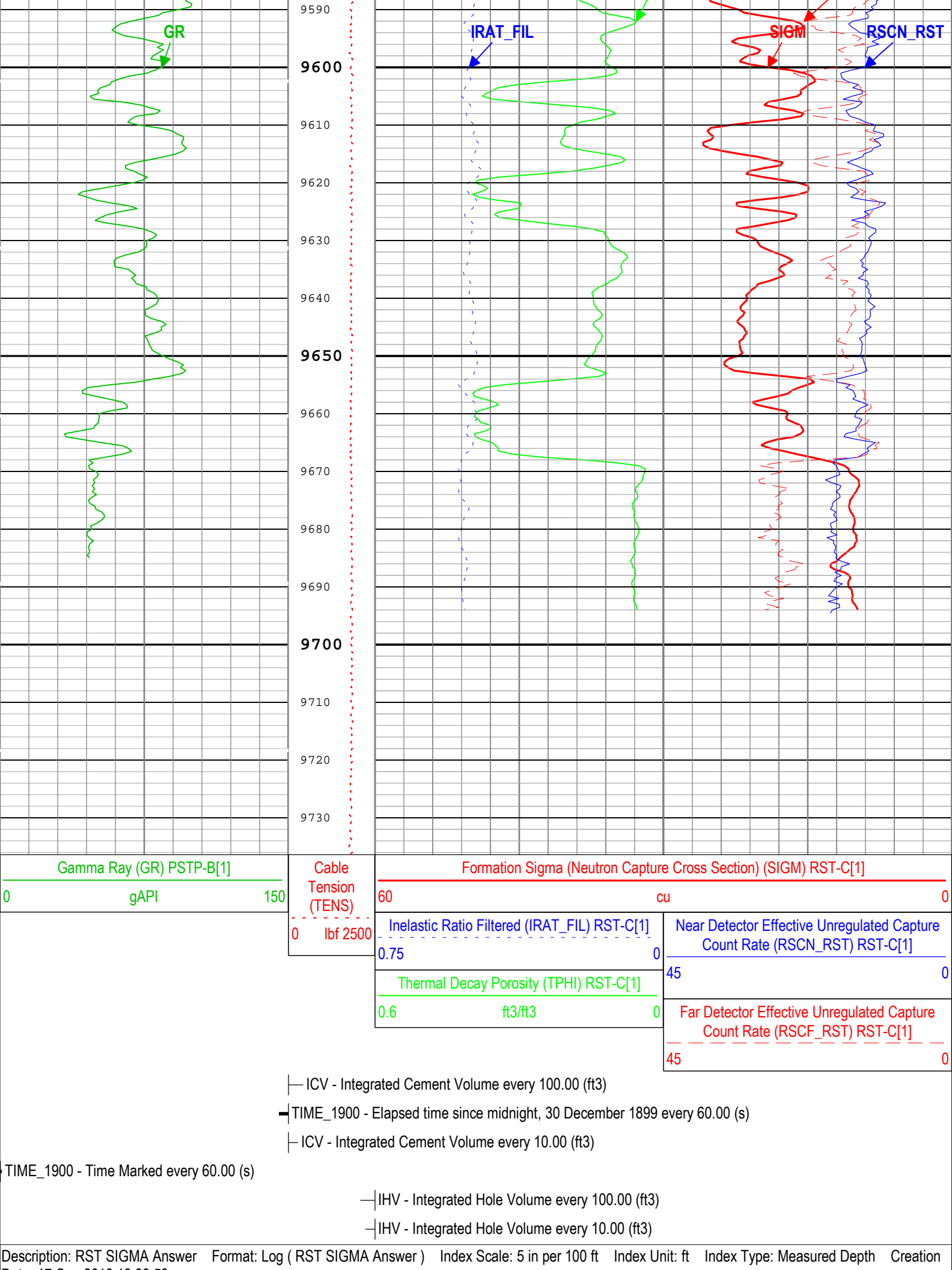












## Channel Processing Parameters

### 1: 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	

### 1Depth Zoned Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
BS	14.75	1800	2061
BS	8.75	2061	9736.43

All depth are actual.

## Tool Control Parameters

### 1: Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-B	12 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

1

## RST Sigma Repeat Pass

## Software Version

Acquisition System	Version
Maxwell 2017 SP3	7.3.92069.3100
Application Patch	Wireline_Hotfix-RTDLIS-2017SP3_7.3.92363
	Wireline_Hotfix-SML-2017SP3_7.3.101161

## Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1	Log[4]:Up	Up	8709.92 ft	9746.08 ft	17-Sep-2018 1:15:07 AM	17-Sep-2018 1:51:34 AM	ON	8.51 ft	Yes

All depths are referenced to toolstring zero

## Log

Company:Caerus Operating LLC Well:NPR 11A-15 596

1: Log[4]:Up:S007

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: 17-Sep-2018 13:40:02

—|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)

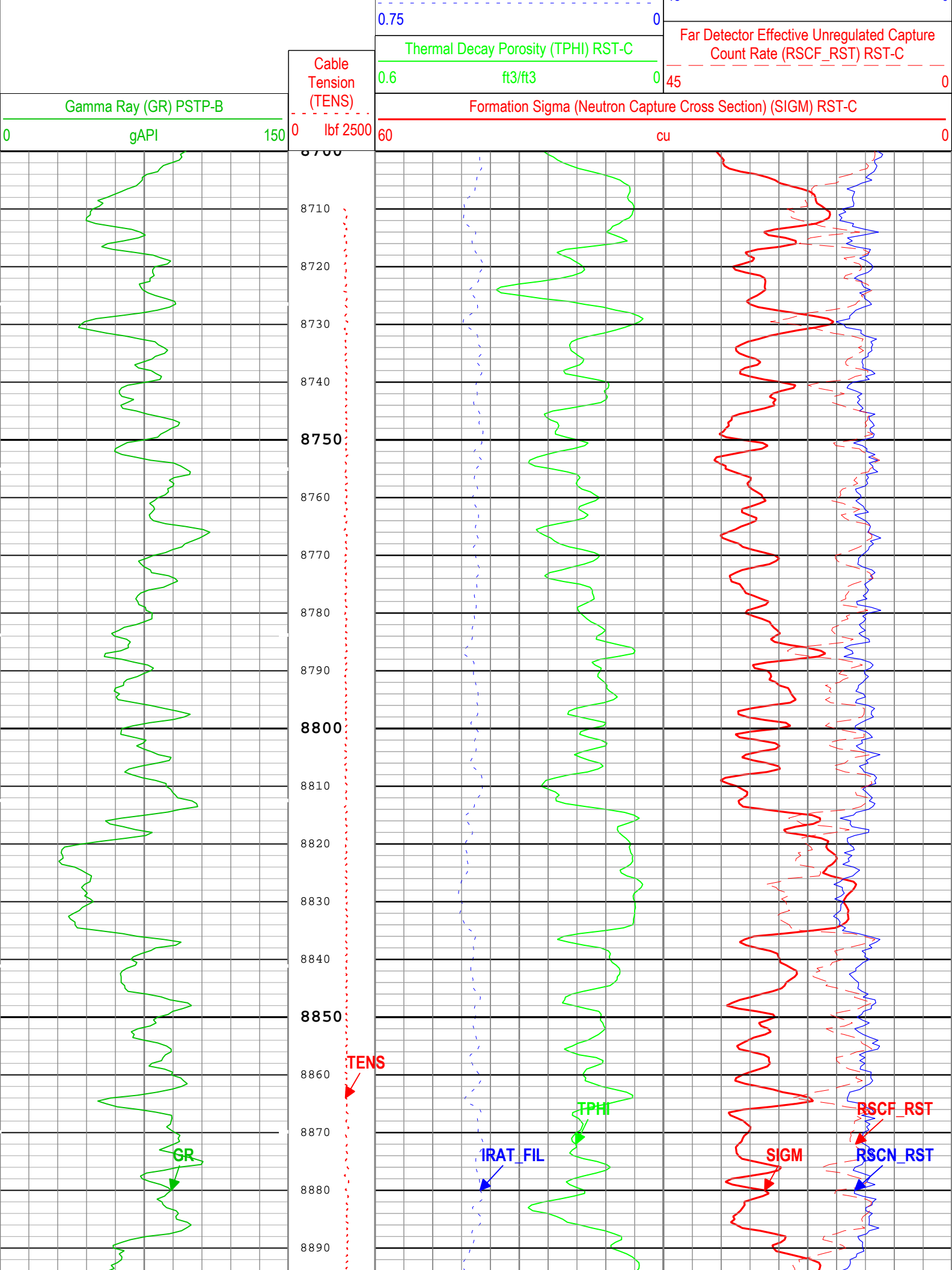
TIME\_1900 - Time Marked every 60.00 (s)

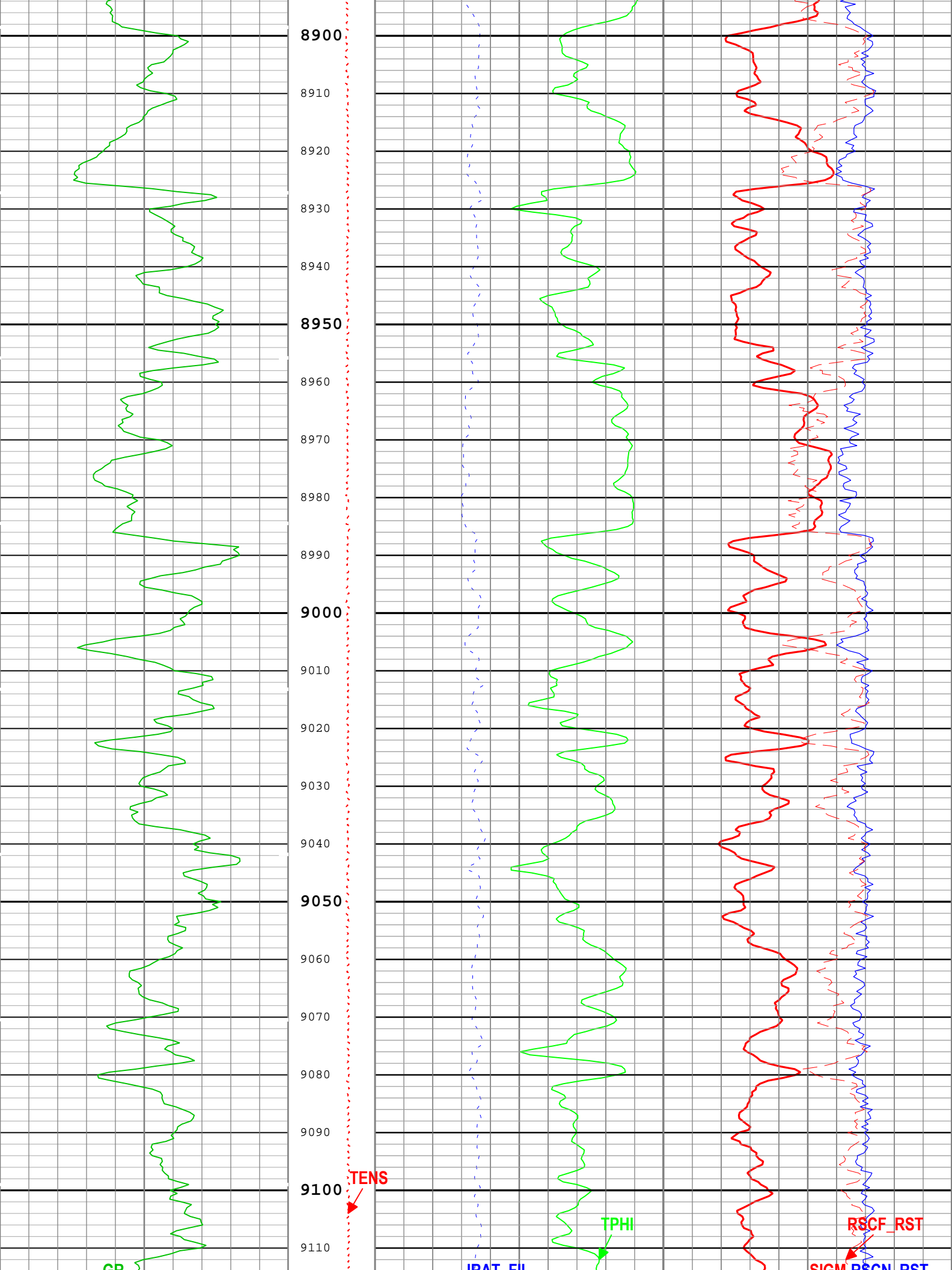
Near Detector Effective Unregulated Capture Count Rate (RSCN\_RST) RST-C

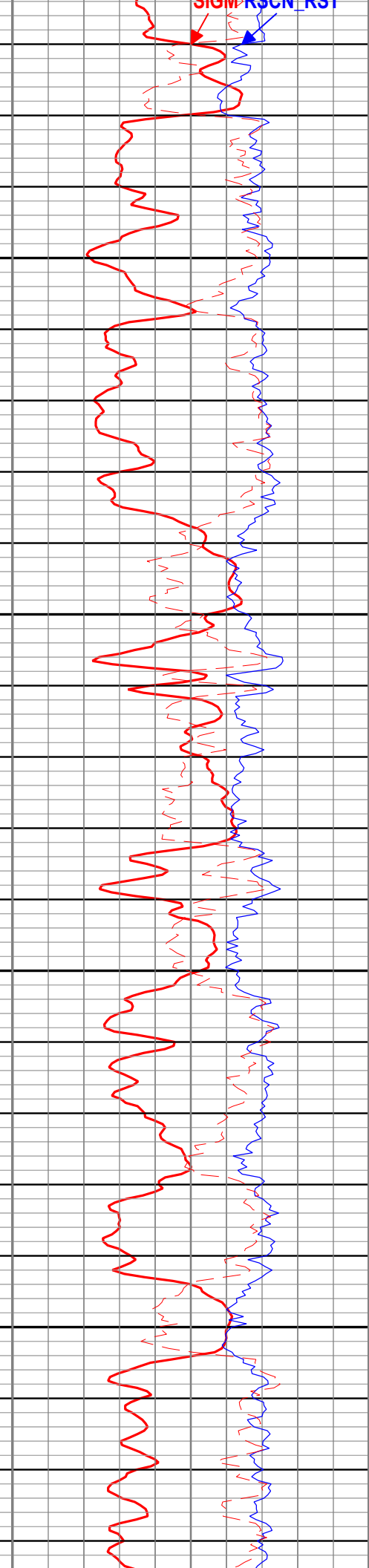
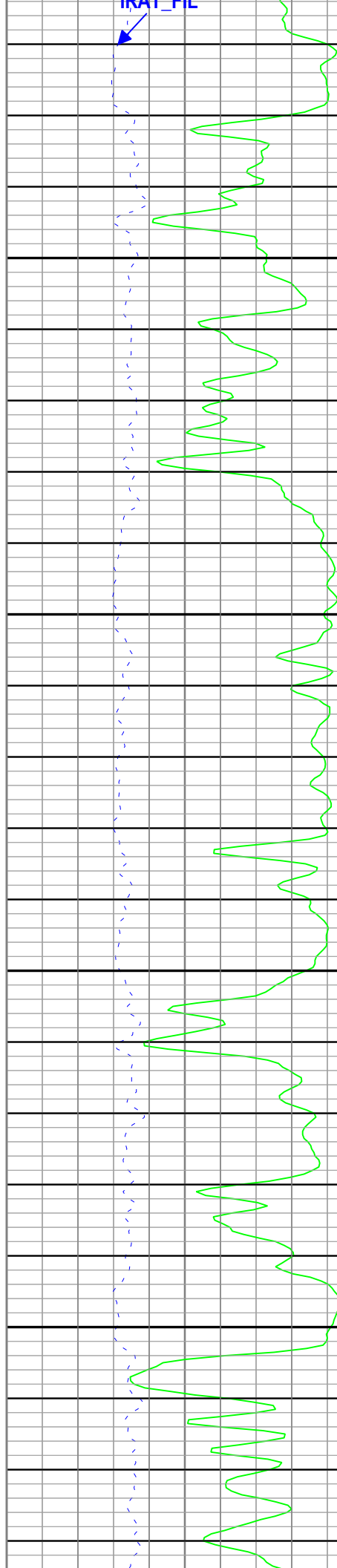
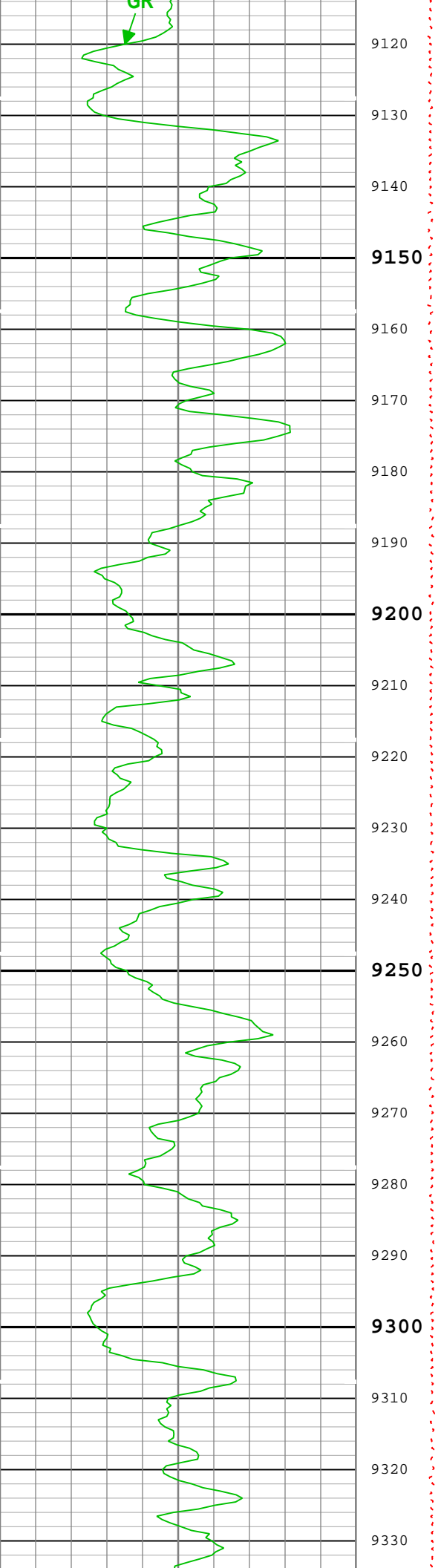
Inelastic Ratio Filtered (IRAT\_FIL) RST-C

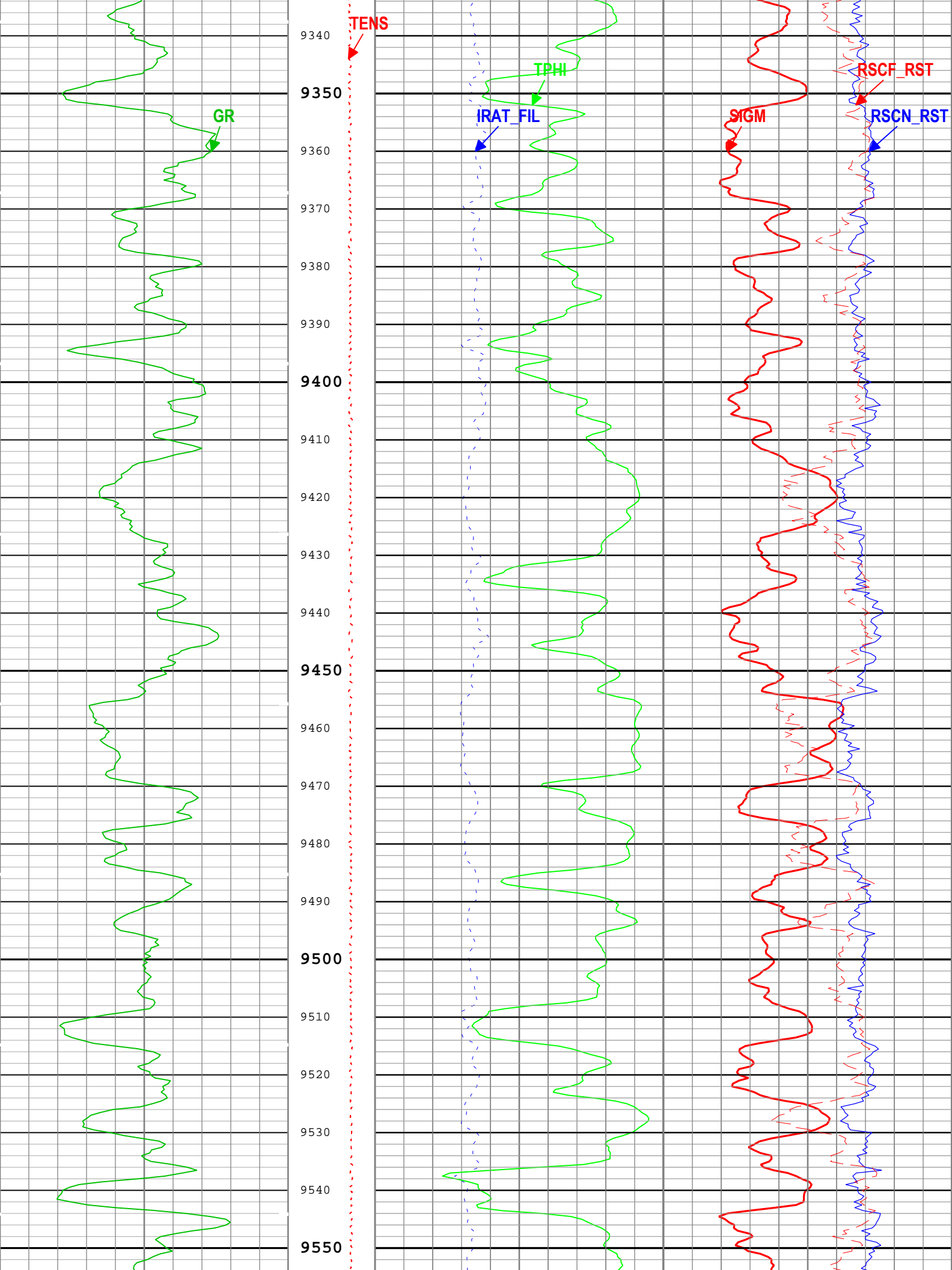
45

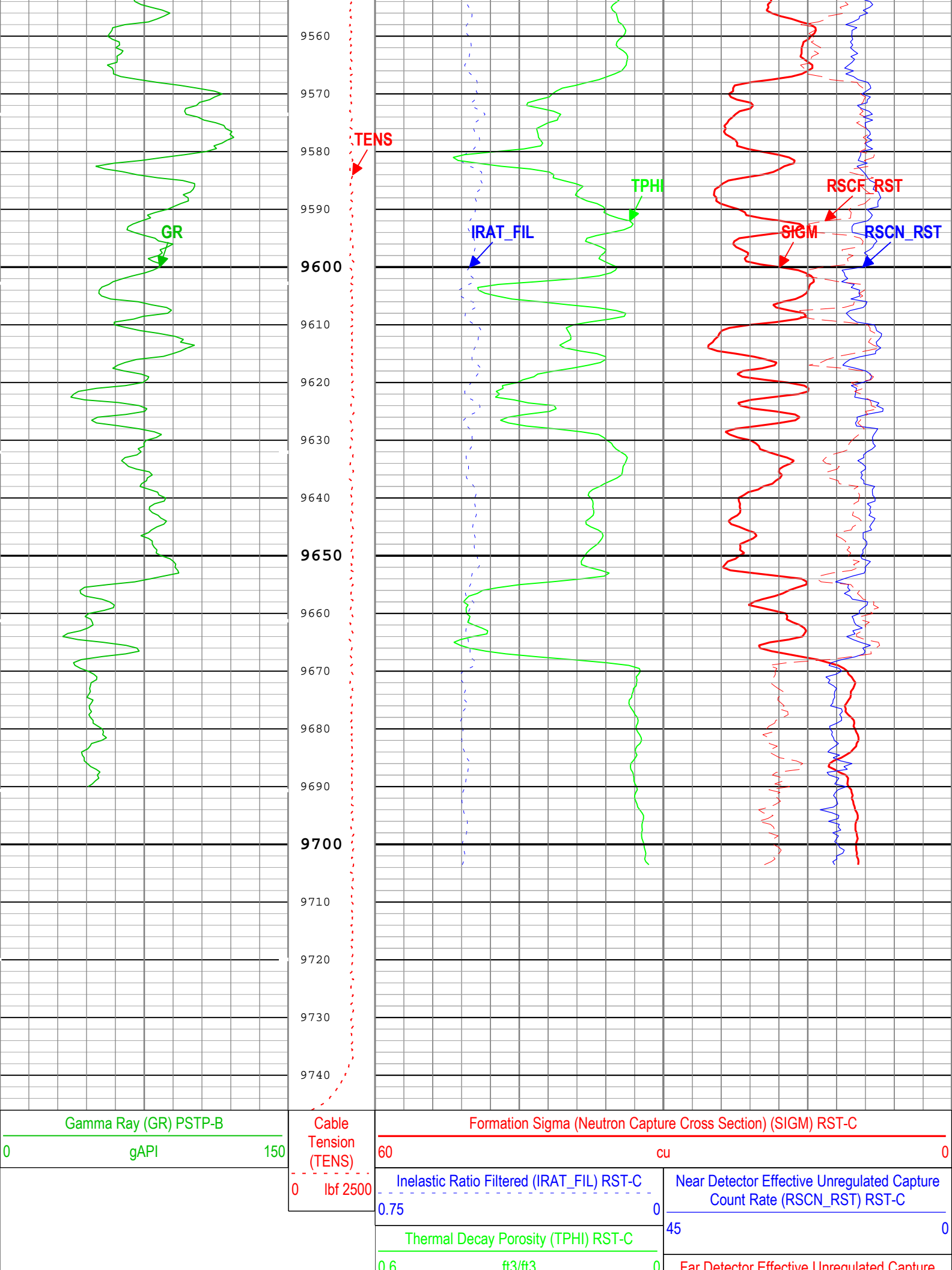














— ICV - Integrated Cement Volume every 100.00 (ft3)

└ ICV - Integrated Cement Volume every 10.00 (ft3)

—IHV - Integrated Hole Volume every 100.00 (ft3)

—IHV - Integrated Hole Volume every 10.00 (ft3)

Date: 17-Sep-2018 13:40:02

## 1: Parameters

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	

## 1: Parameters

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

Parameter	Value	Start Time	Stop Time	Start Depth ( ft )	Stop Depth ( ft )
PCCG	36 dB	17-Sep-2018 01:15:07	17-Sep-2018 01:42:37	9746.08	8966.73
PCCG	12 dB	17-Sep-2018 01:42:37	17-Sep-2018 01:45:22	8966.73	8887.62
PCCG	24 dB	17-Sep-2018 01:45:22	17-Sep-2018 01:48:08	8887.62	8808.27
PCCG	12 dB	17-Sep-2018 01:48:08	17-Sep-2018 01:51:34	8808.27	8709.92

All depth are at tool zero.

# Schlumberger

Field: NPR

County:	Garfield
State:	Colorado
Cement Bond Log	
RST Sigma Log	
Gamma Ray - Collar Locator Log	