

Company: Caerus Operating LLC

Well: Puckett 34A-23 697

Field: Grand Valley

County: Garfield State: Colorado

Cement Bond Log  
RST Sigma Log  
Gamma Ray/ Collar LogCounty: Garfield  
Field: Grand Valley  
Location: Lat 39.30°07.76" N Long 108.11° 18.38"W  
Well: Puckett 34A-23 697  
Company: Caerus Operating LLC

Location:	Lat 39.30°07.76" N Long 108.11° 18.38"W	Elev.:	K.B.	8462.00 ft
			G.L.	8432.00 ft
			D.F.	8462.00 ft
Permanent Datum:		Ground Level		
Log Measured From:		Kelly Bushing	30.00 ft	8432.00 f
Drilling Measured From:		Kelly Bushing		above Perm.Datum
API Serial No.	5045233930000	Section:	23	Township:
				6S
				Range:
				97W

Logging Date 22-Dec-2017

Run Number One

Depth Driller 9358.00 ft

Schlumberger Depth 9326.00 ft

Bottom Log Interval 9326.00 ft

Top Log Interval 2500.00 ft

Casing Fluid Type Water

Salinity

Density 8.6 lbm/gal

Fluid Level 8.00 ft

BIT/CASING/TUBING STRING

Bit Size 8.50 in

From 30.00 ft

To 9358.00 ft

Casing/Tubing Size 4.5 in

Weight 11.6 lbm/ft

Grade P110

From 30.00 ft

To 9358.00 ft

Max Recorded Temperatures 238 degF

Logger on Bottom 22-Dec-2017

Unit Number 3003

Recorded By Beatriz Guaita

Witnessed By Ryan Tompkins

## 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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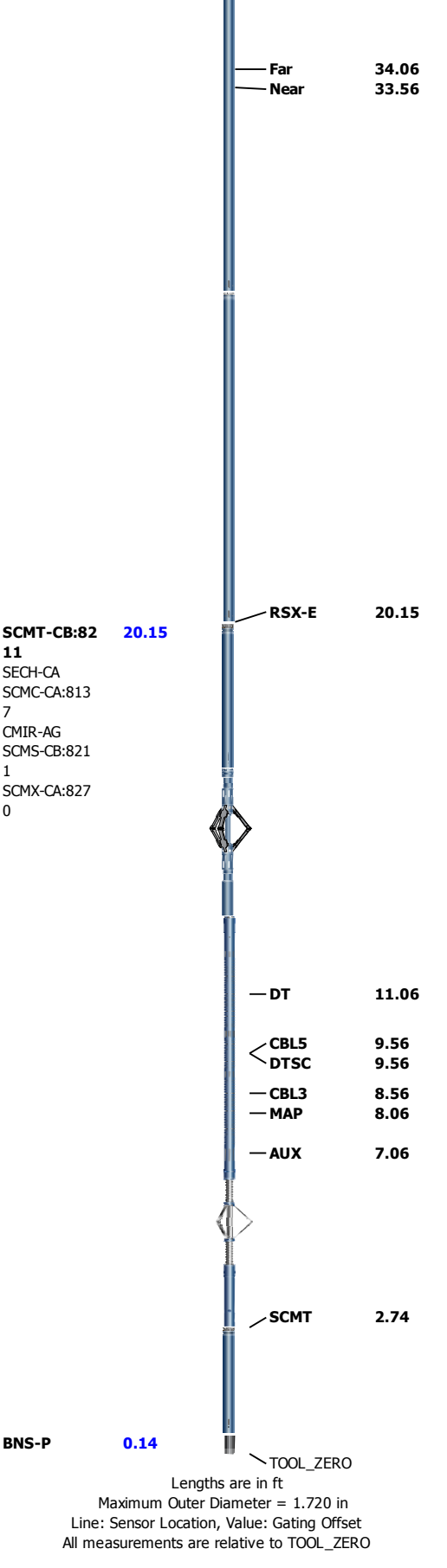
## Well Sketch

**Driller Depth**

**30.00 ft**







One	
Main Pass	
Software Version	
Acquisition System	Version
Maxwell 2017 SP3	7.3.92069.3100

# Pass Summary

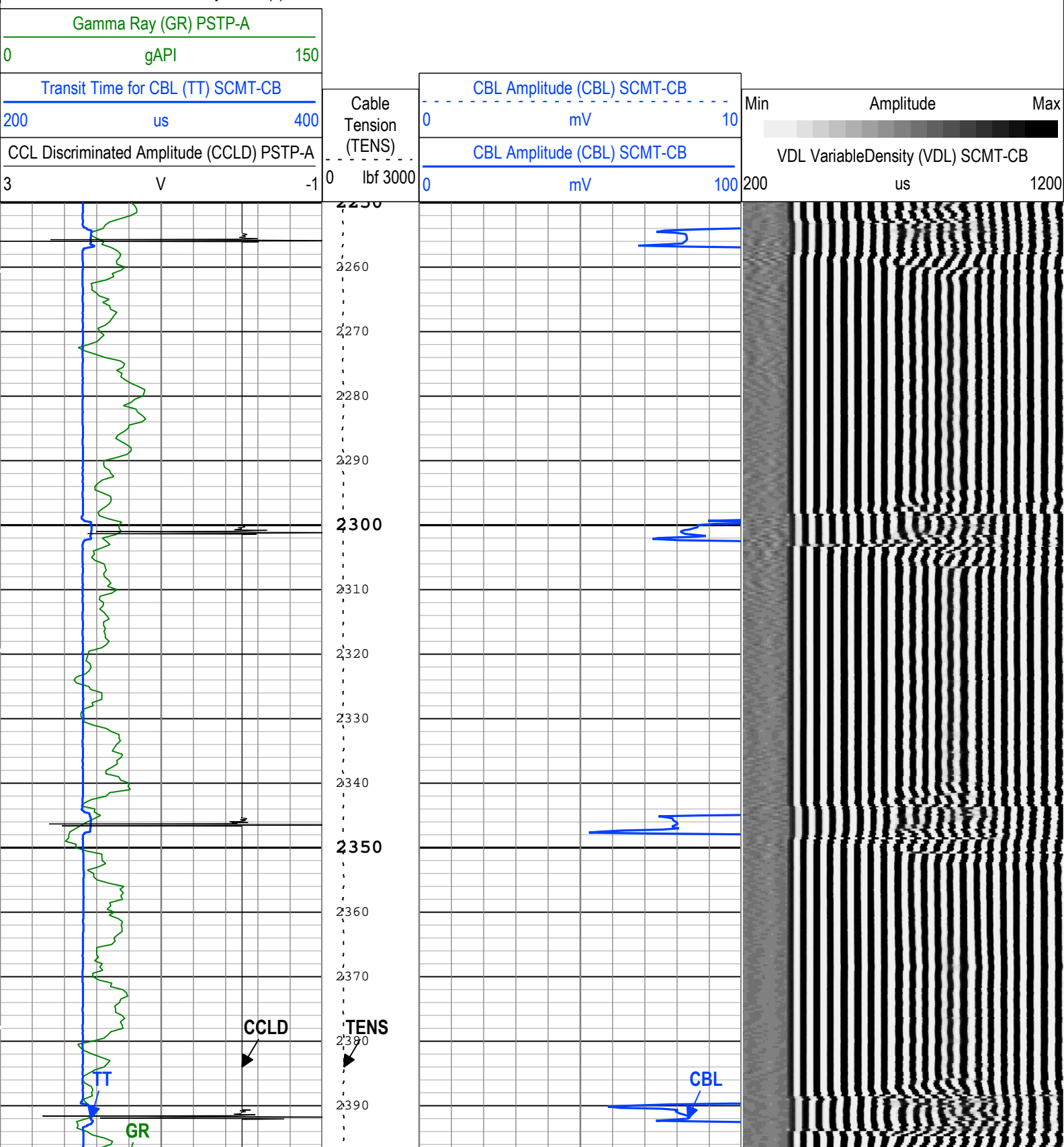
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[5]:Up	Up	2249.93 ft	9342.61 ft	22-Dec-2017 10:12:06 PM	23-Dec-2017 12:38:10 AM	ON	7.58 ft	Yes

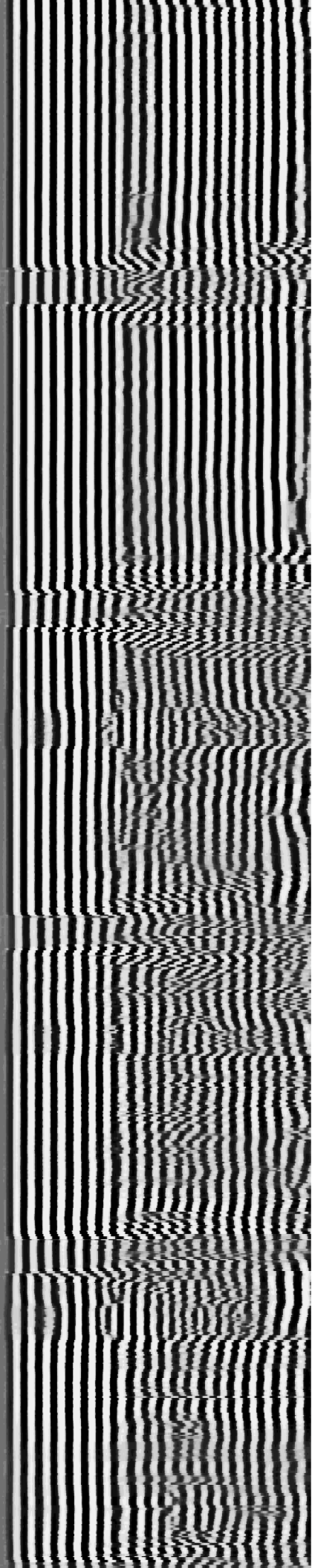
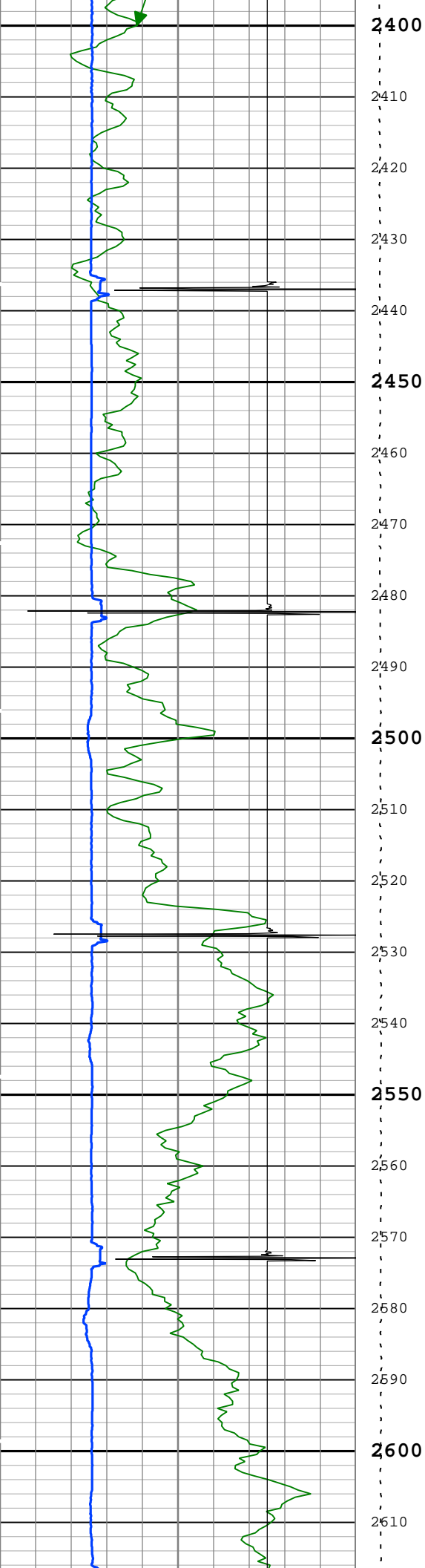
All depths are referenced to toolstring zero

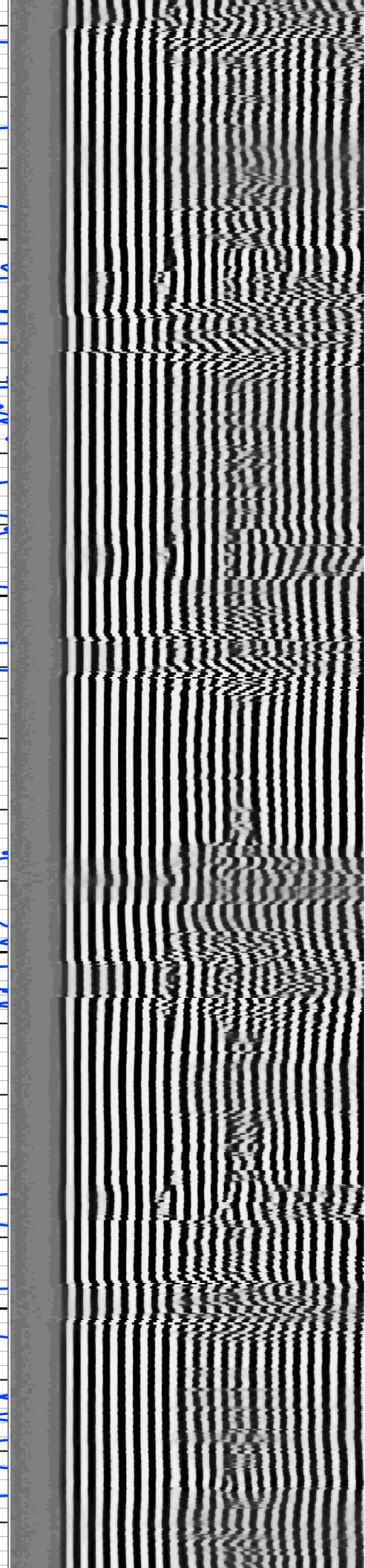
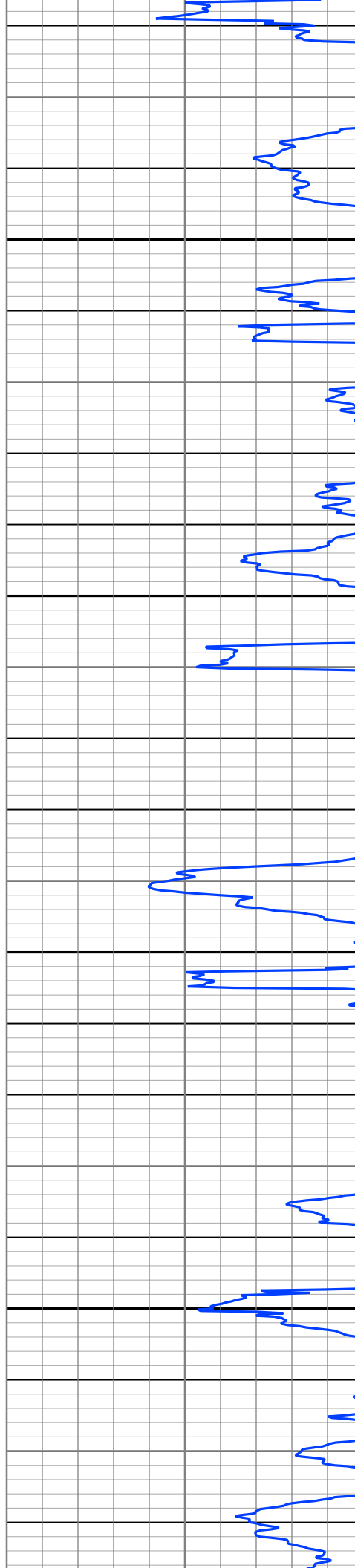
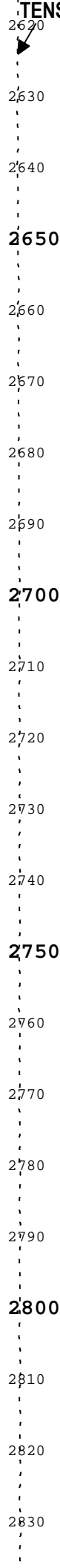
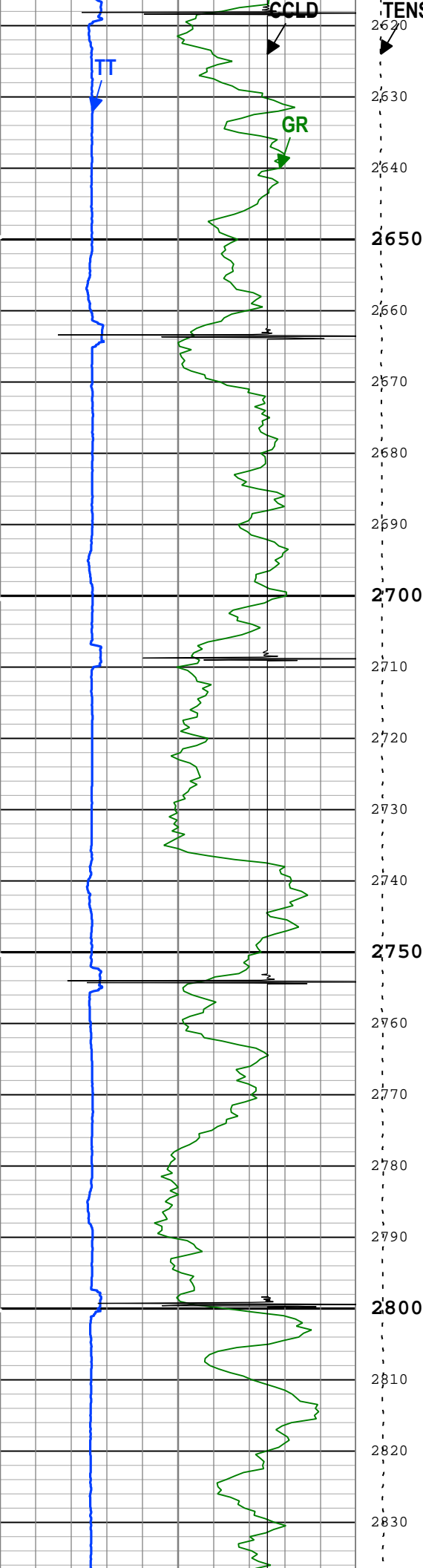
Log	Company:Caerus Operating LLC	Well:Puckett 34A-23 697
		One: Log[5]:Up:S005

Description: SCMT Amplitudes and VDL Format: Log ( SCMT\_Amp\_VDL ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth  
Creation Date: 07-Jan-2018 11:40:50

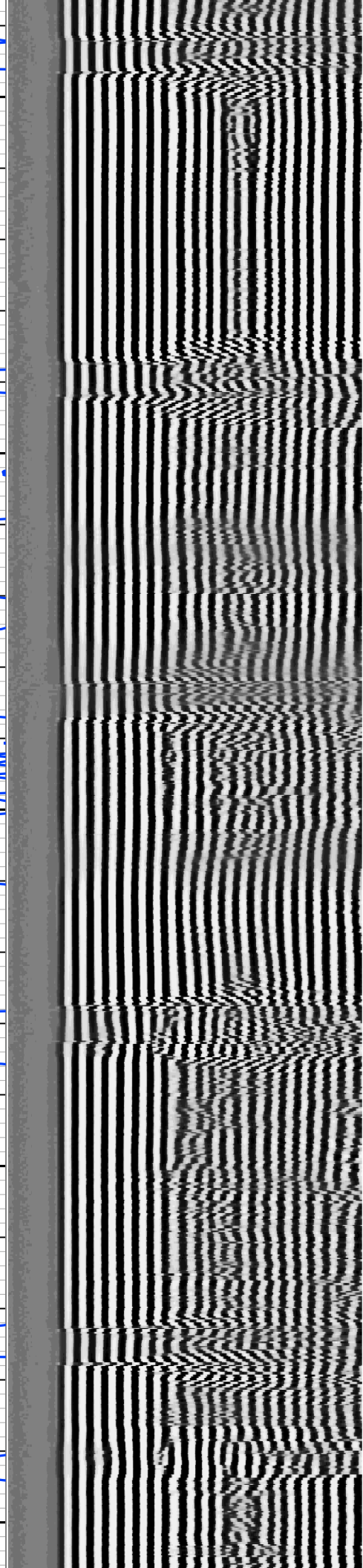
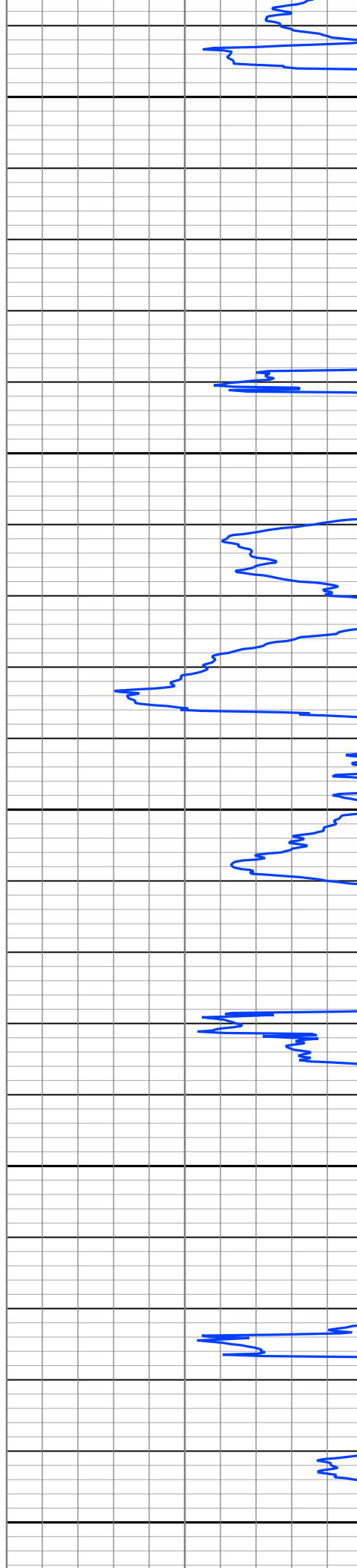
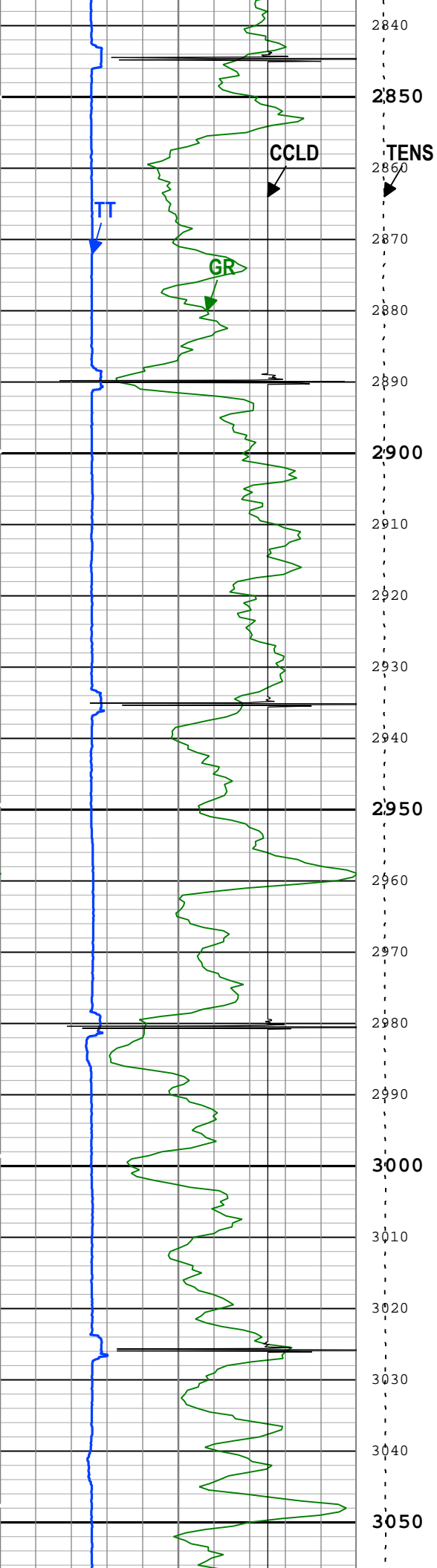
TIME\_1900 - Time Marked every 60.00 (s)



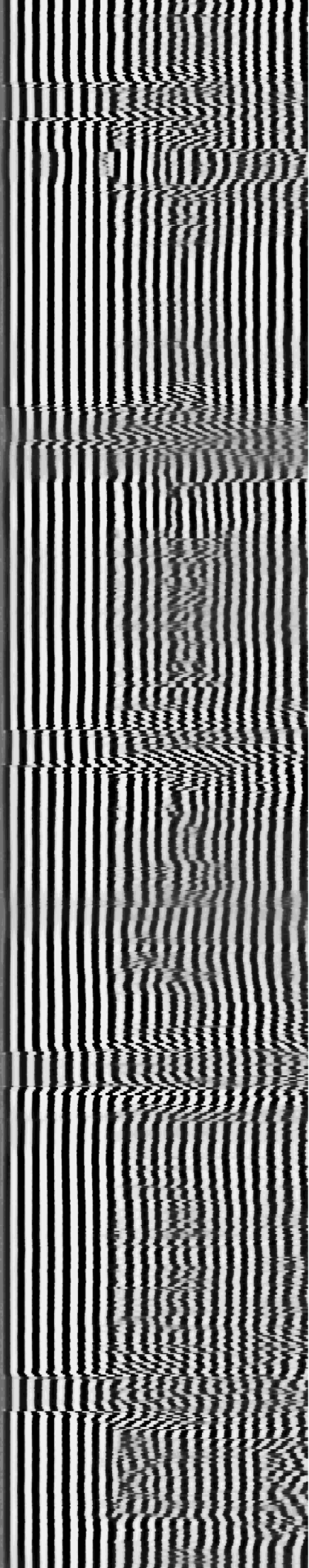
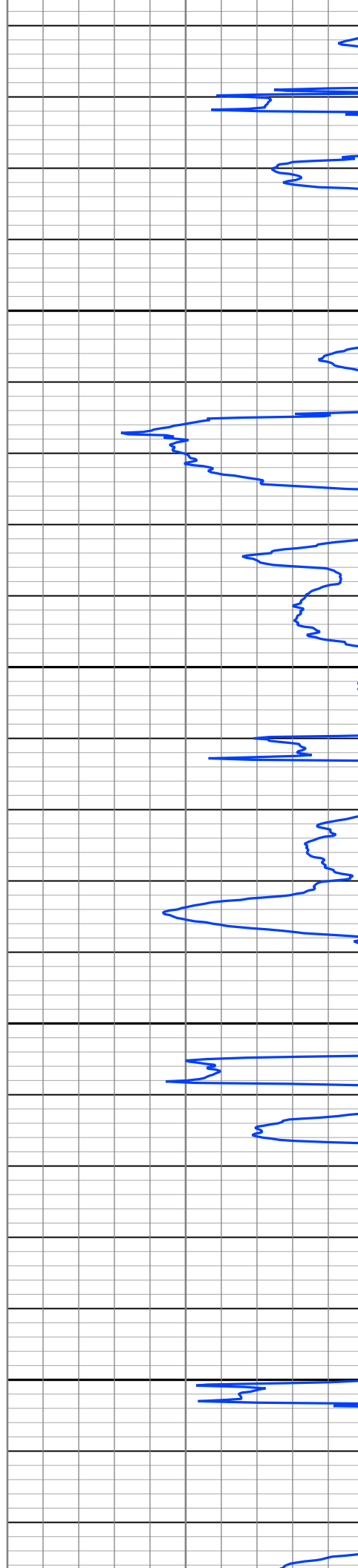
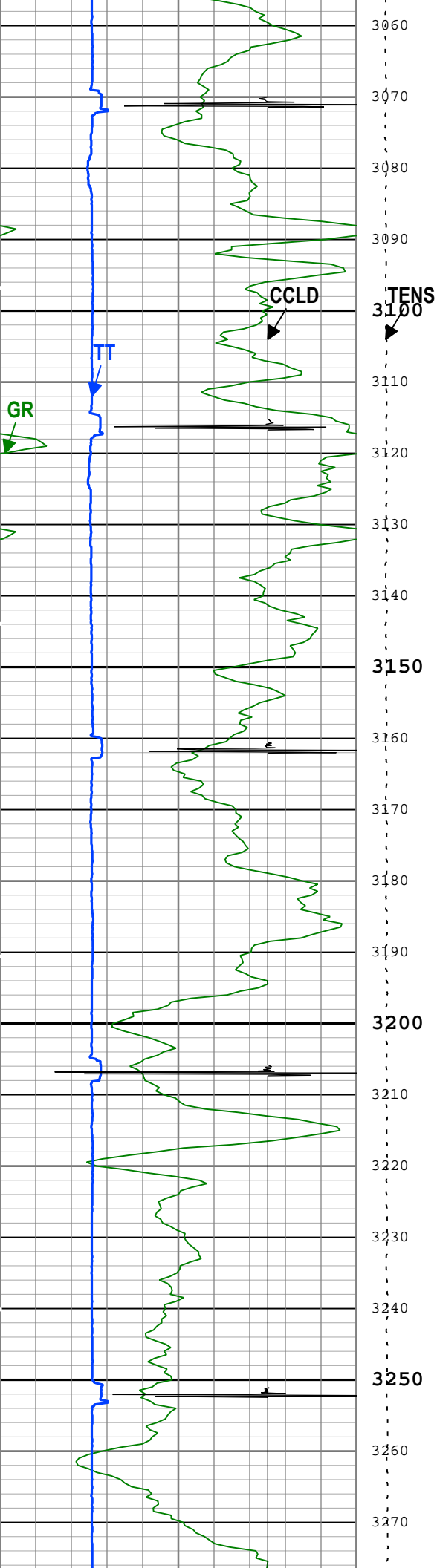


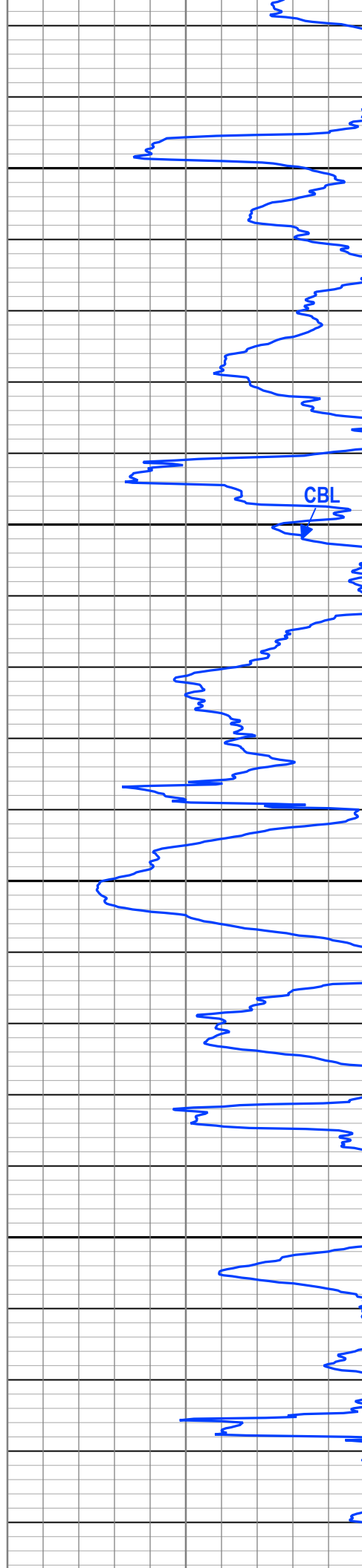
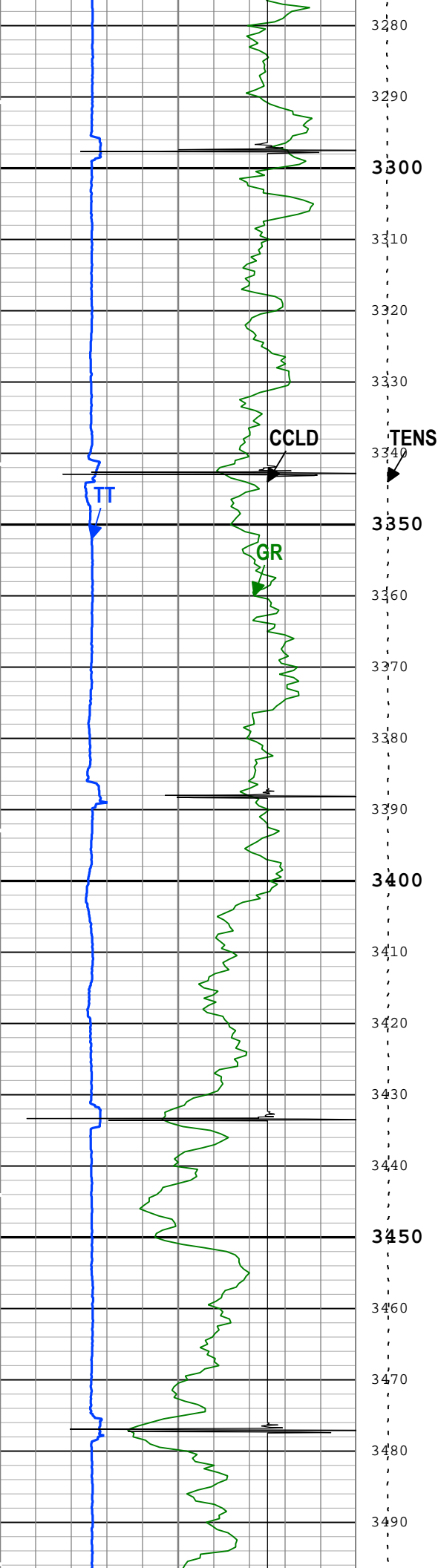


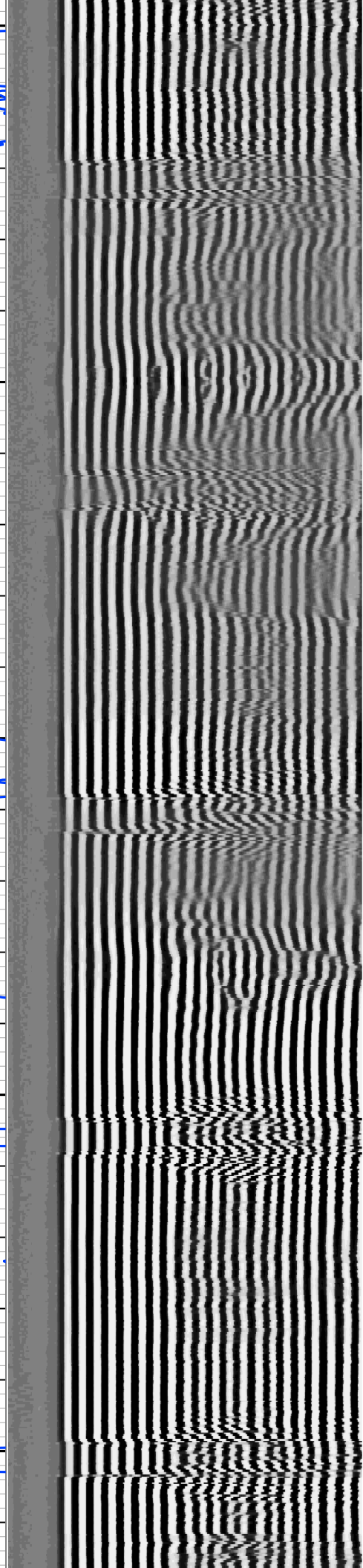
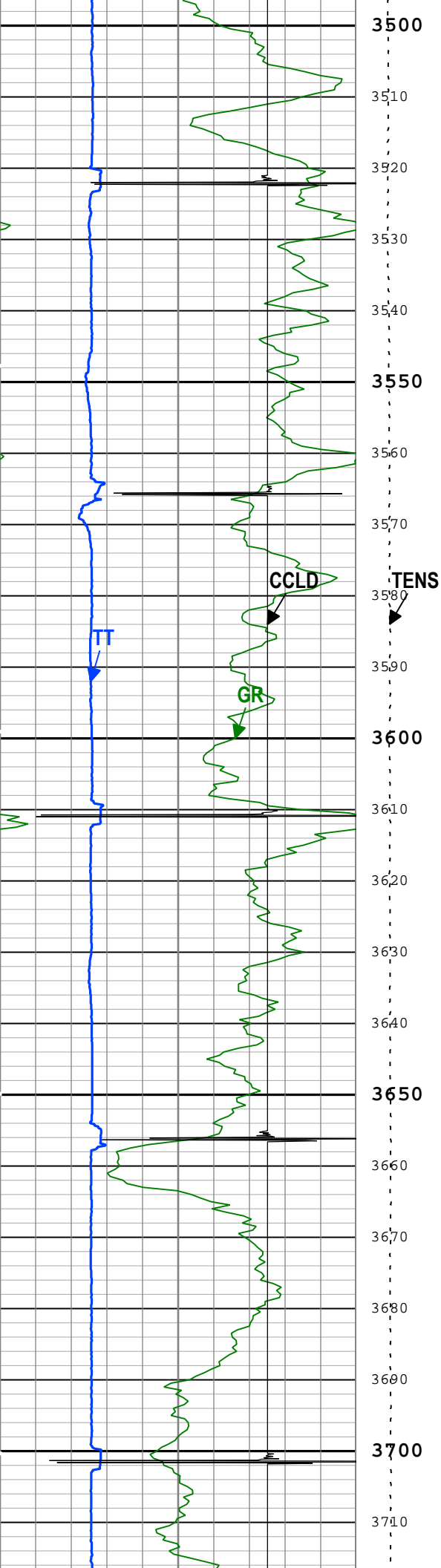


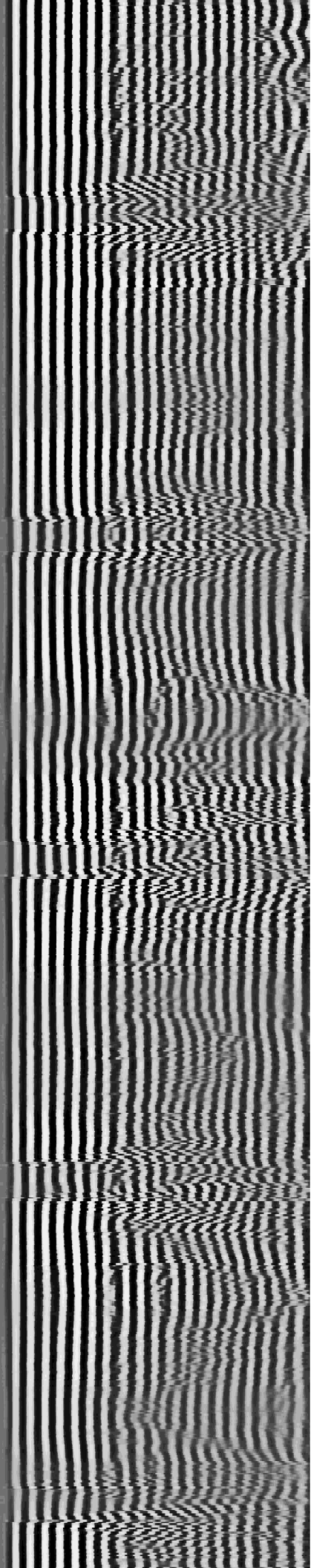
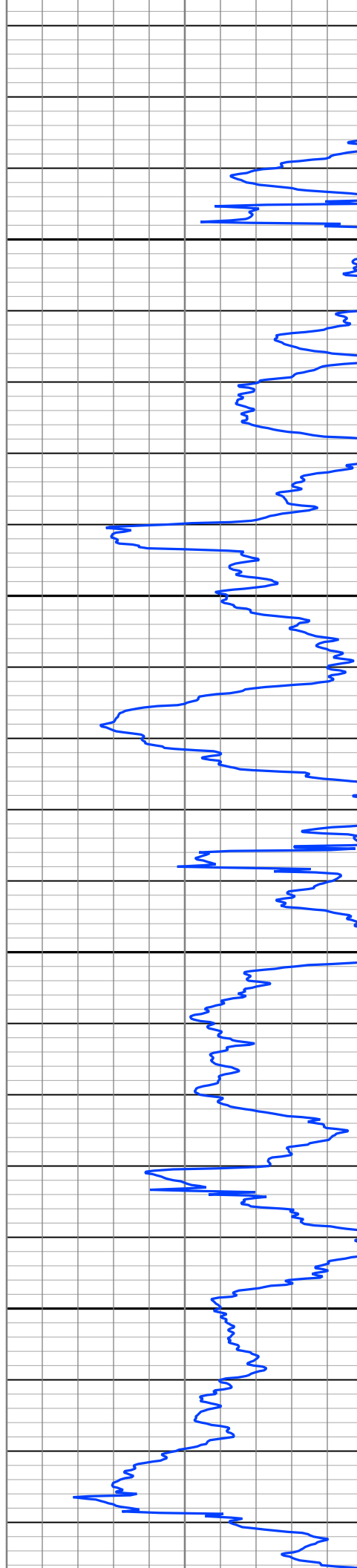
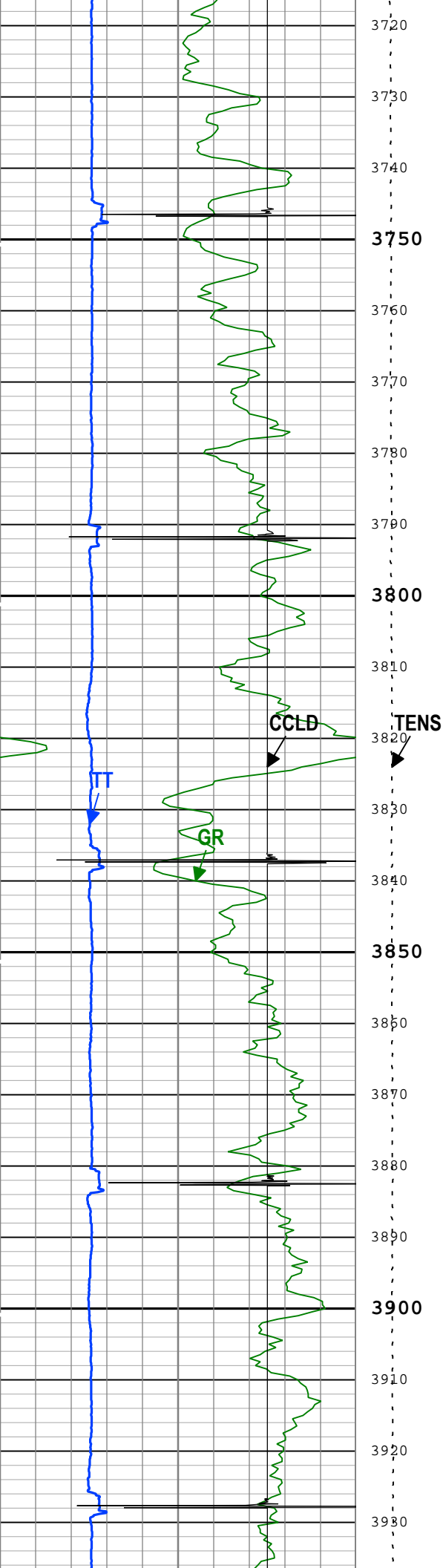




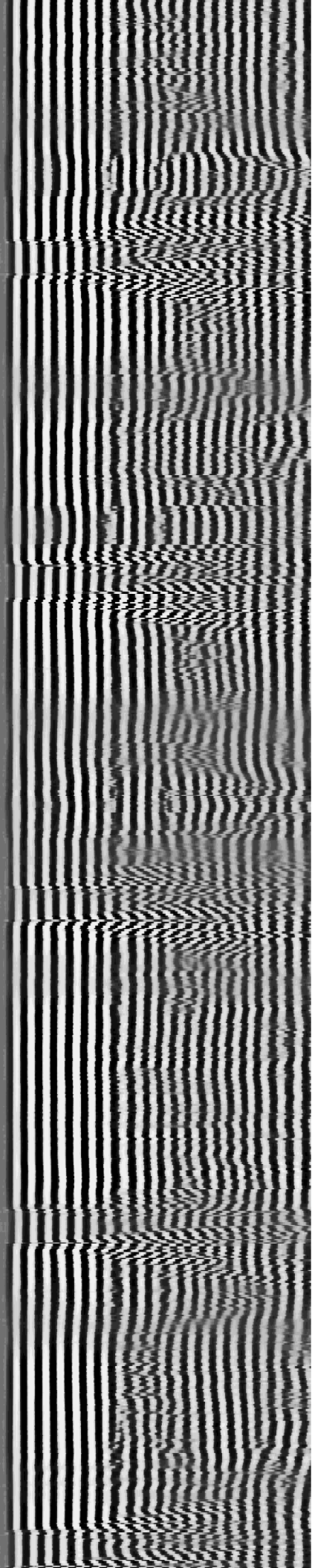
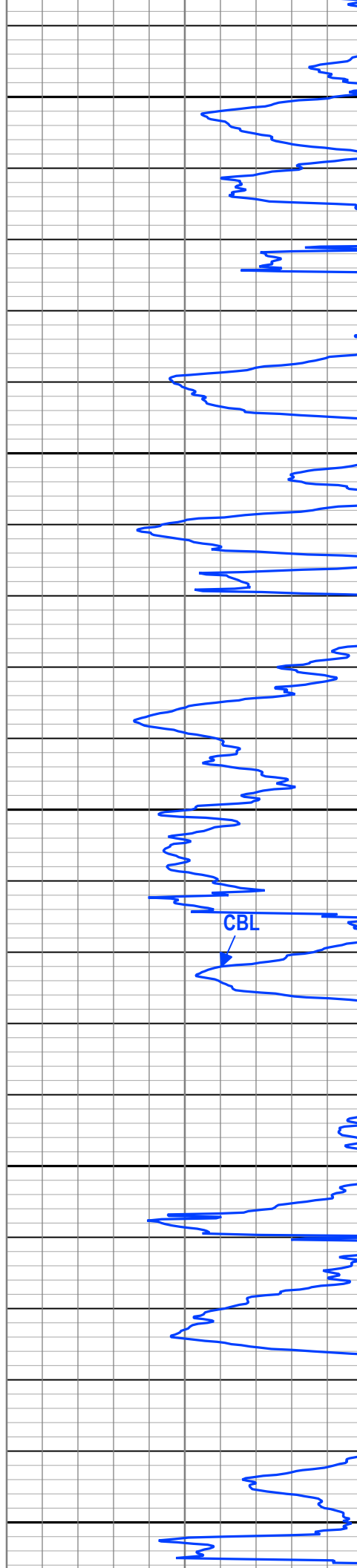
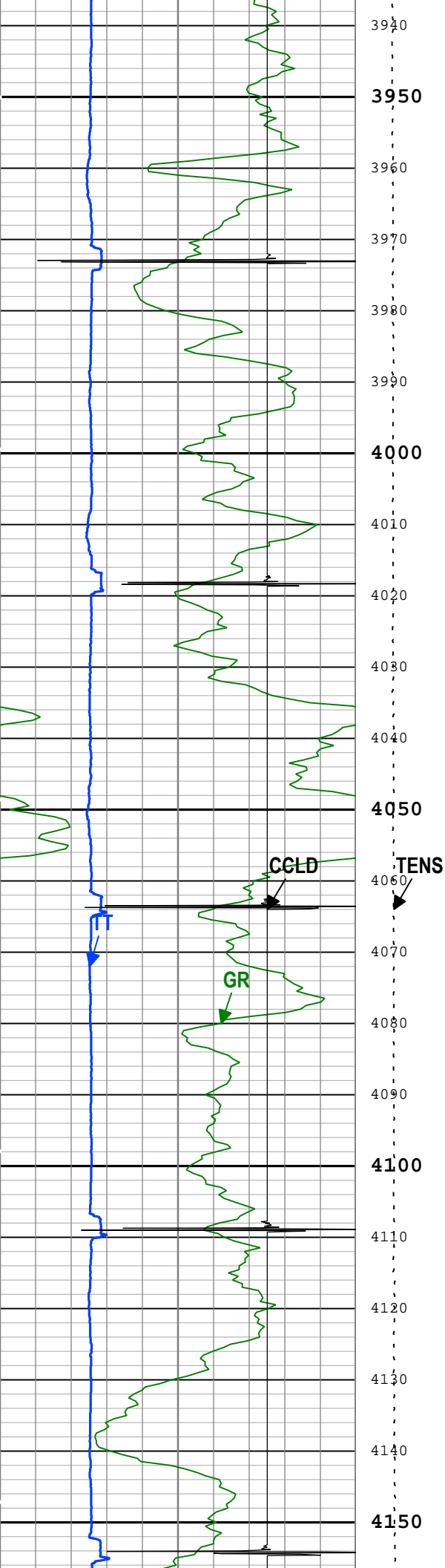


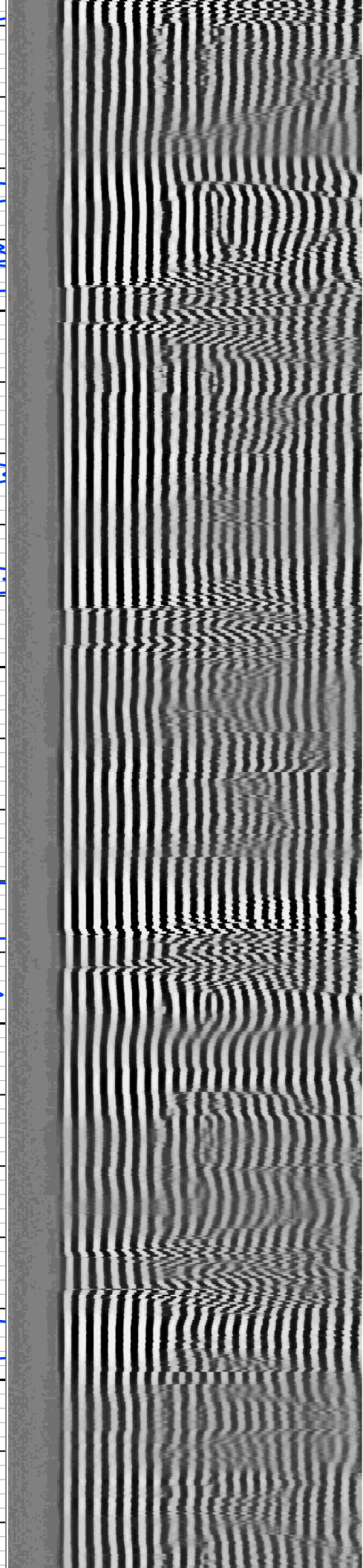
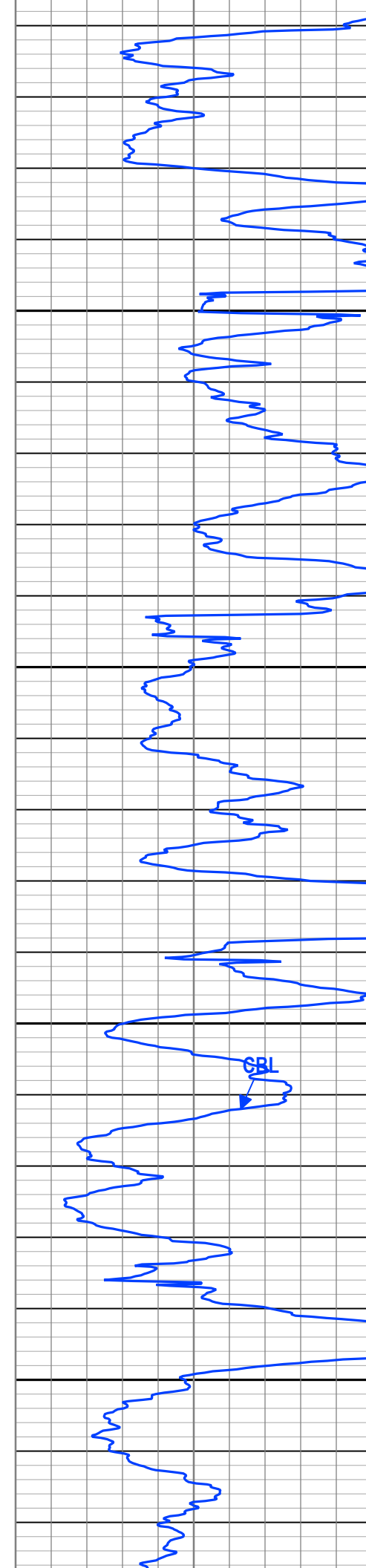
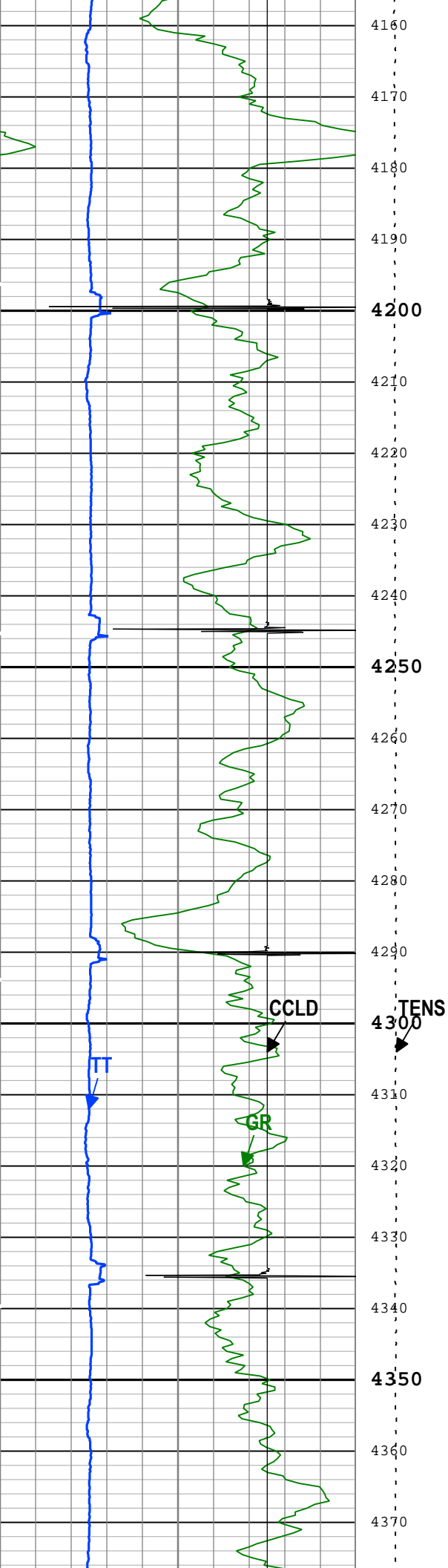


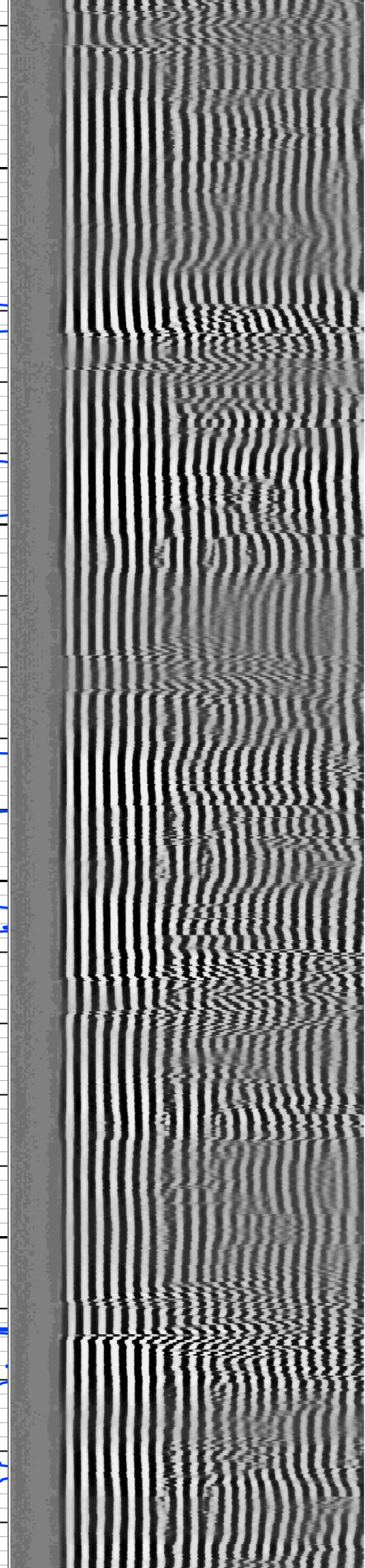
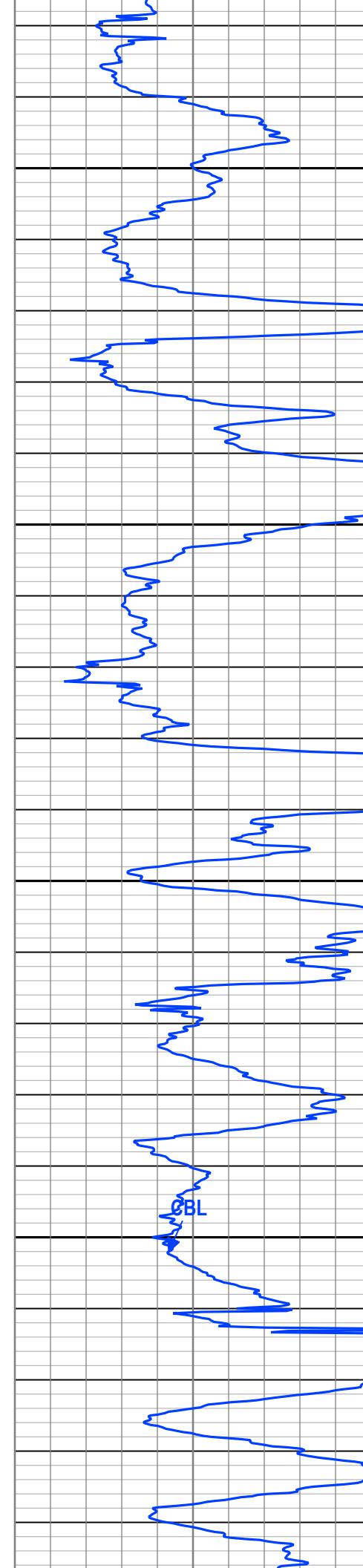
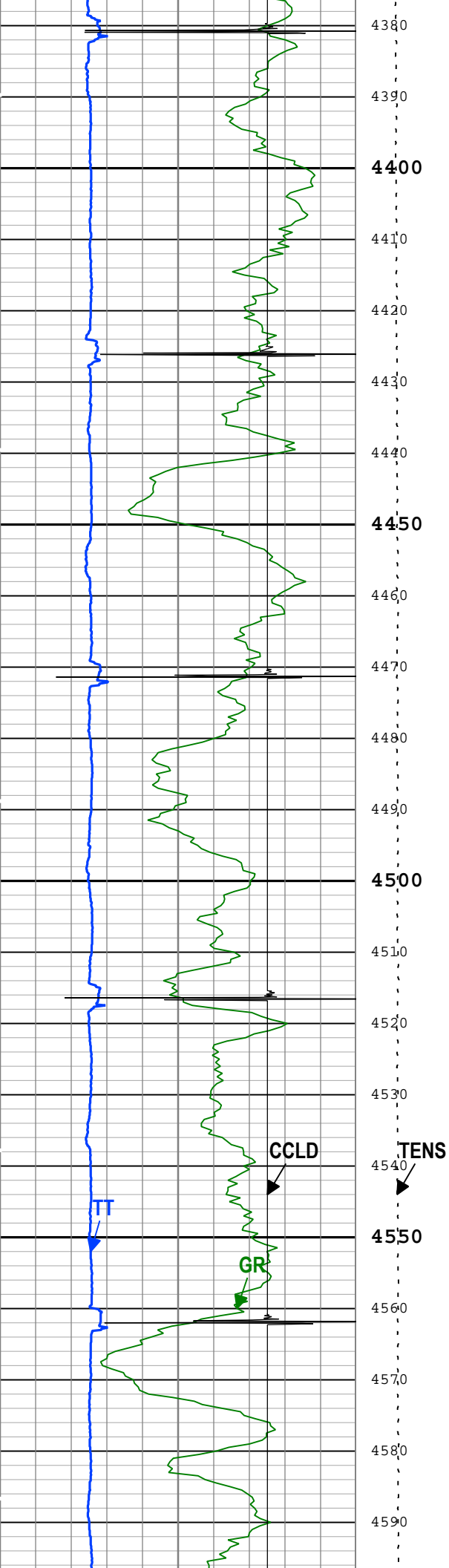




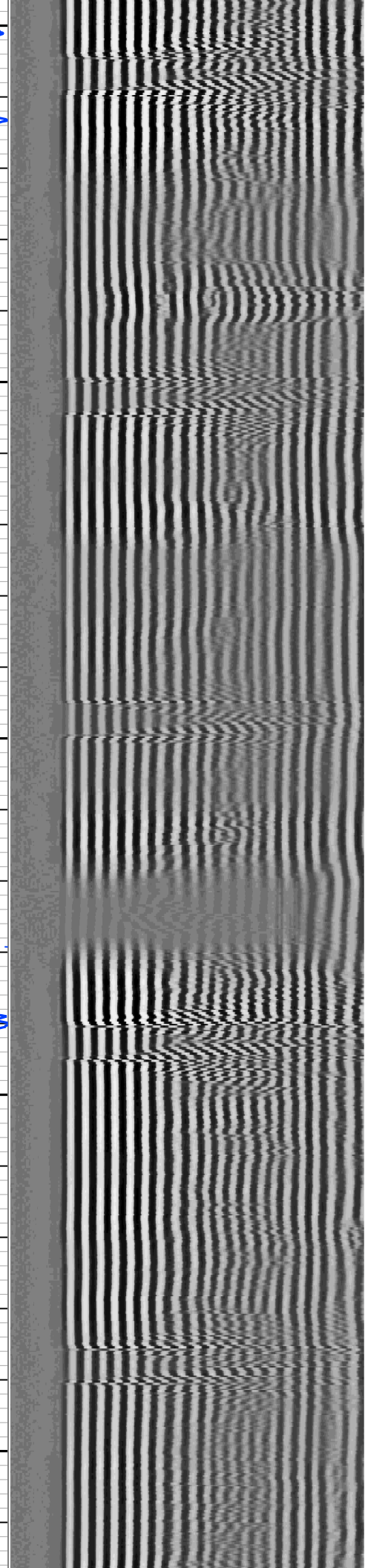
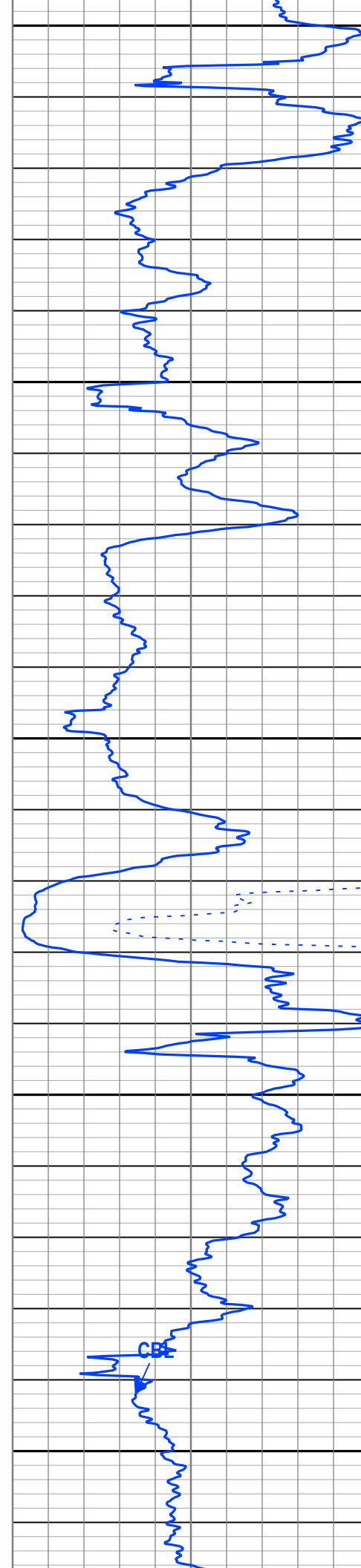
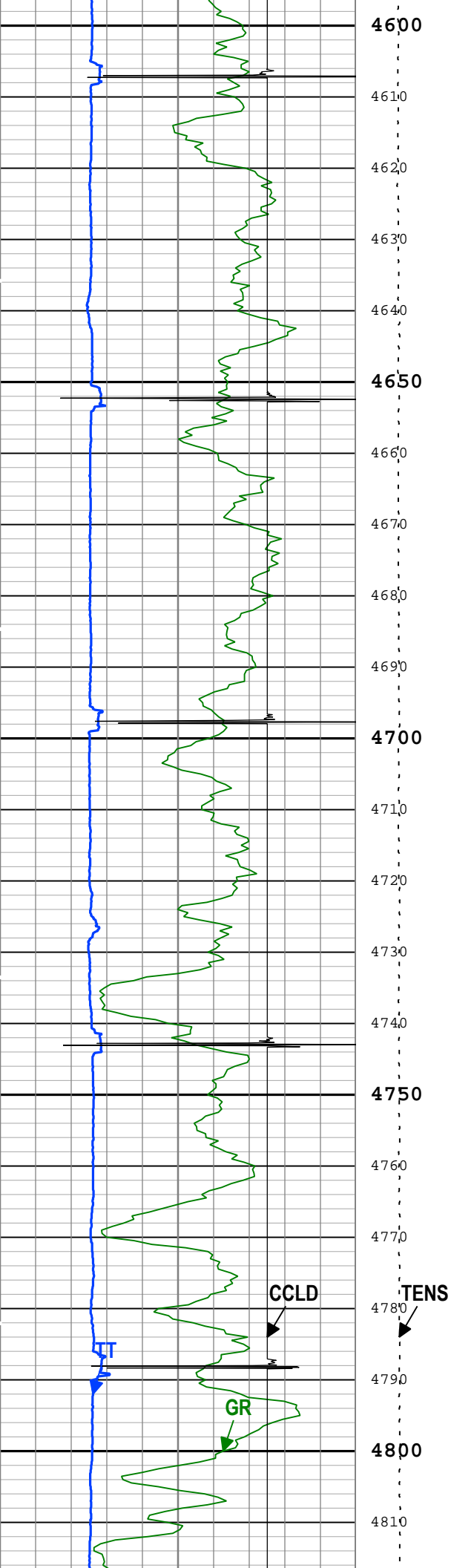


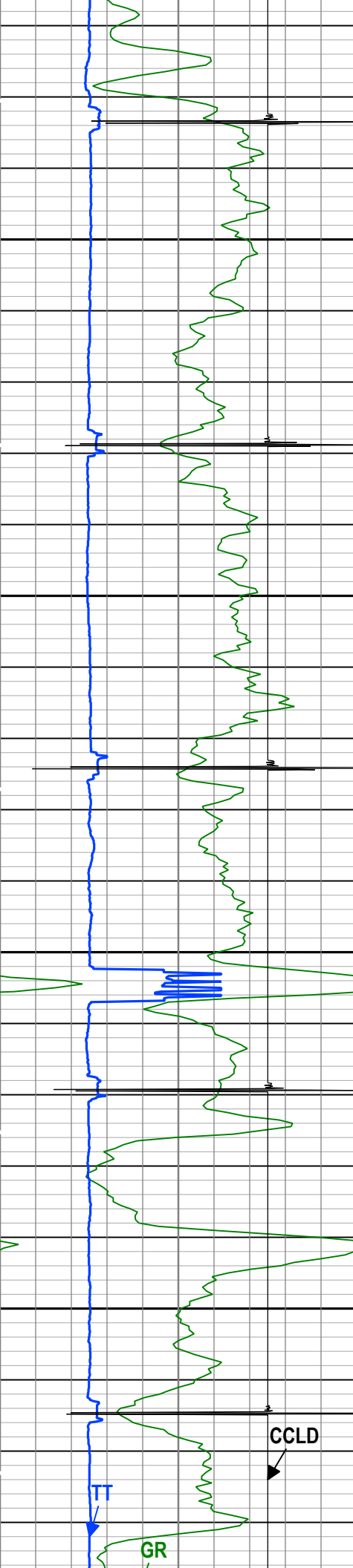








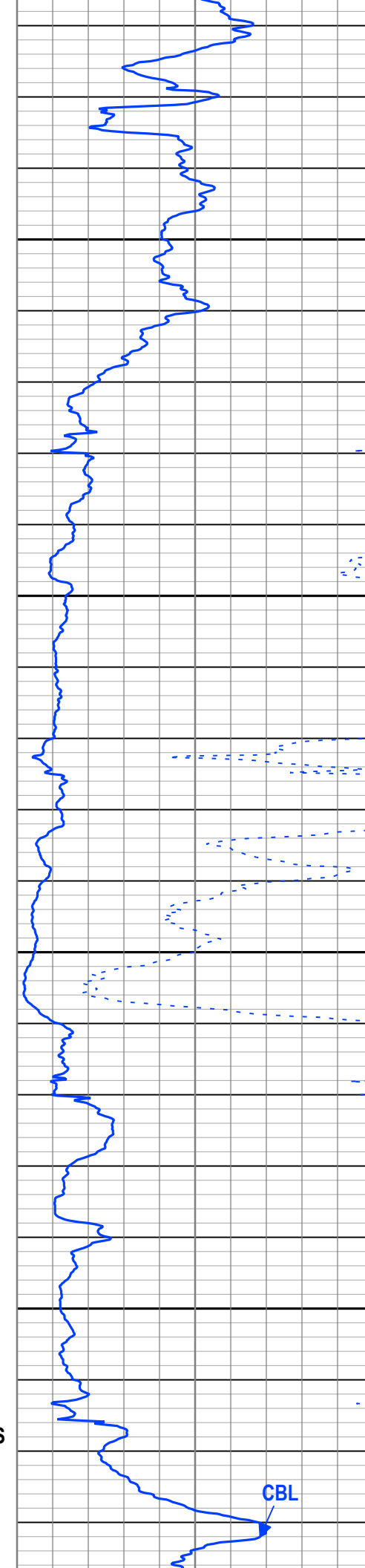




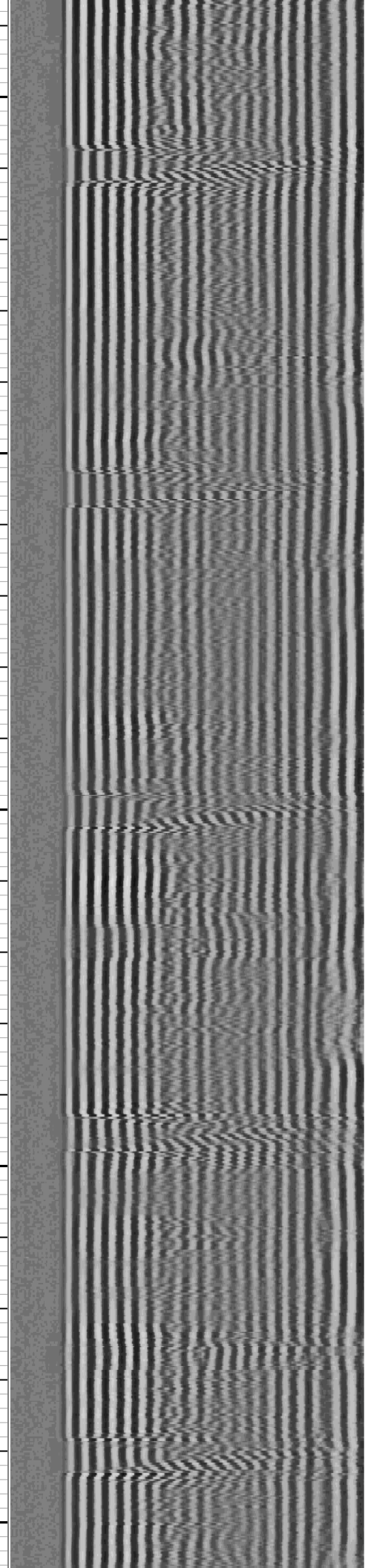
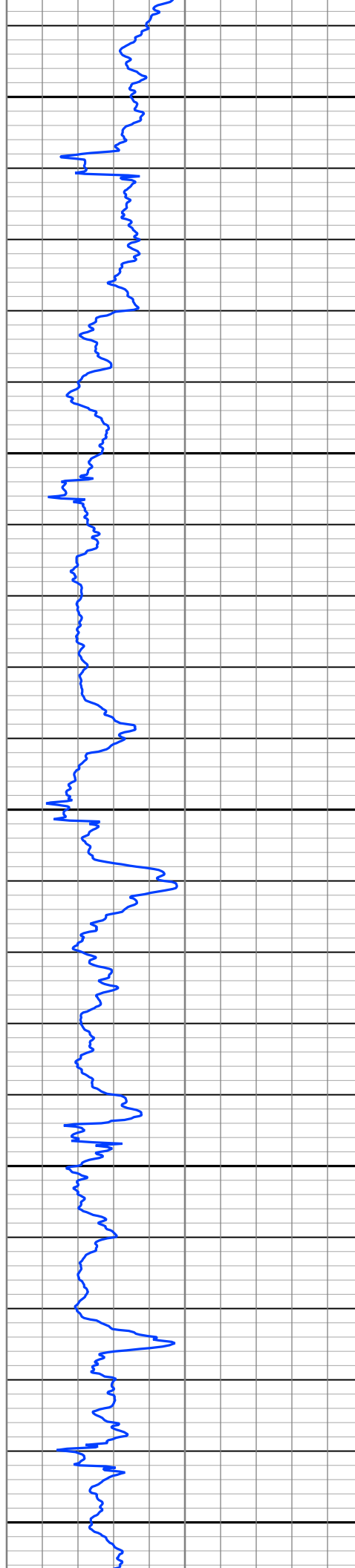
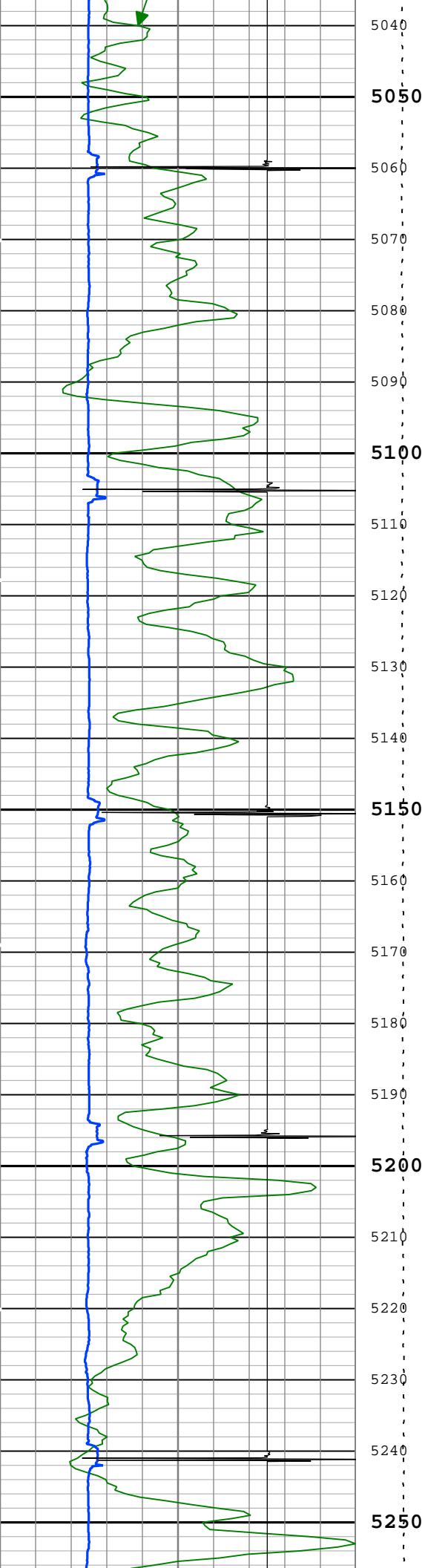
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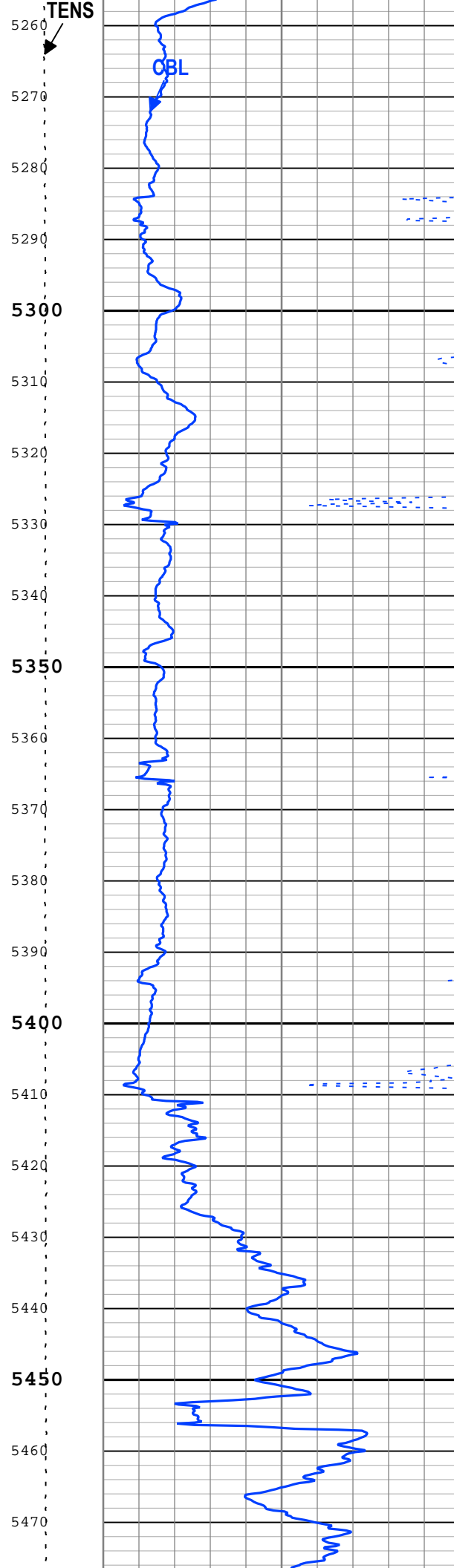
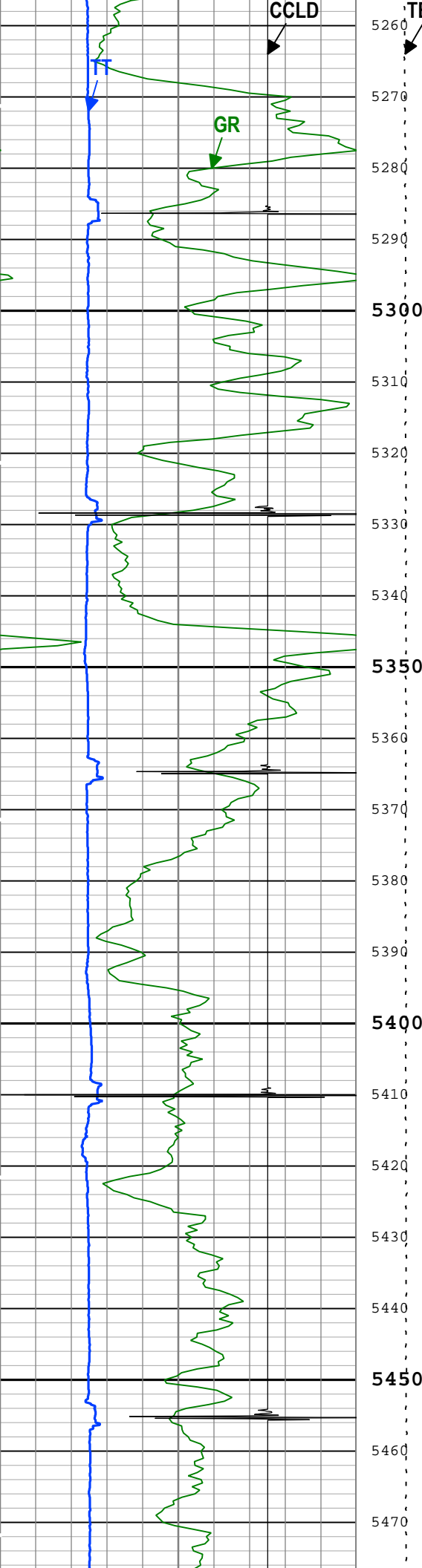
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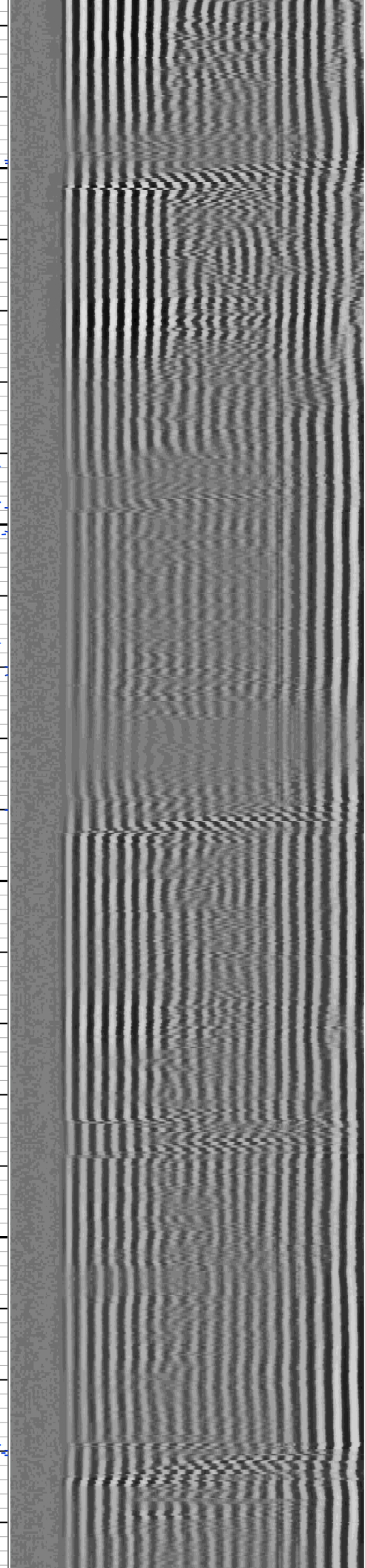
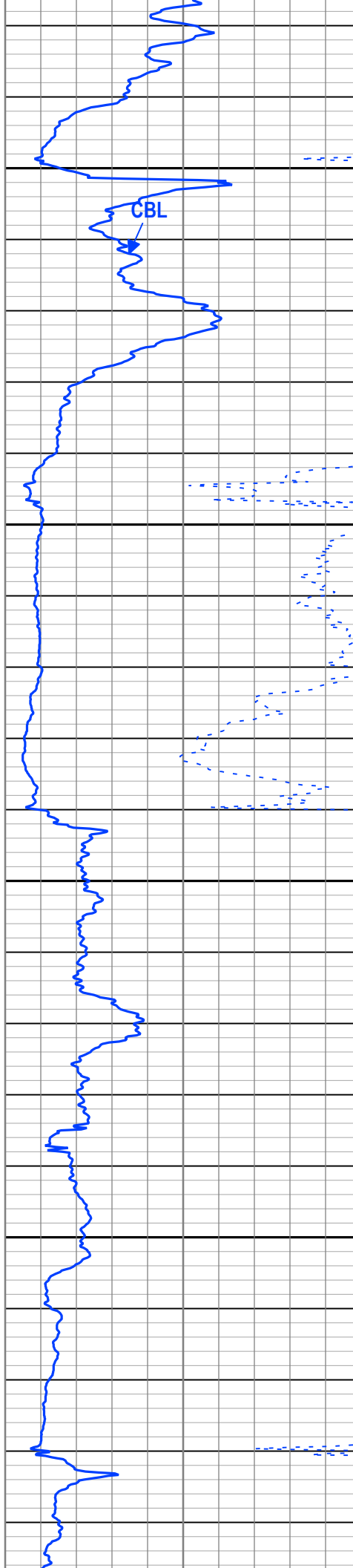
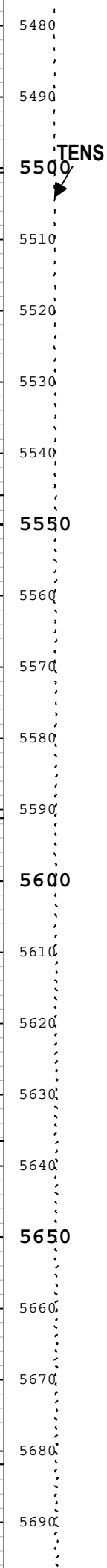
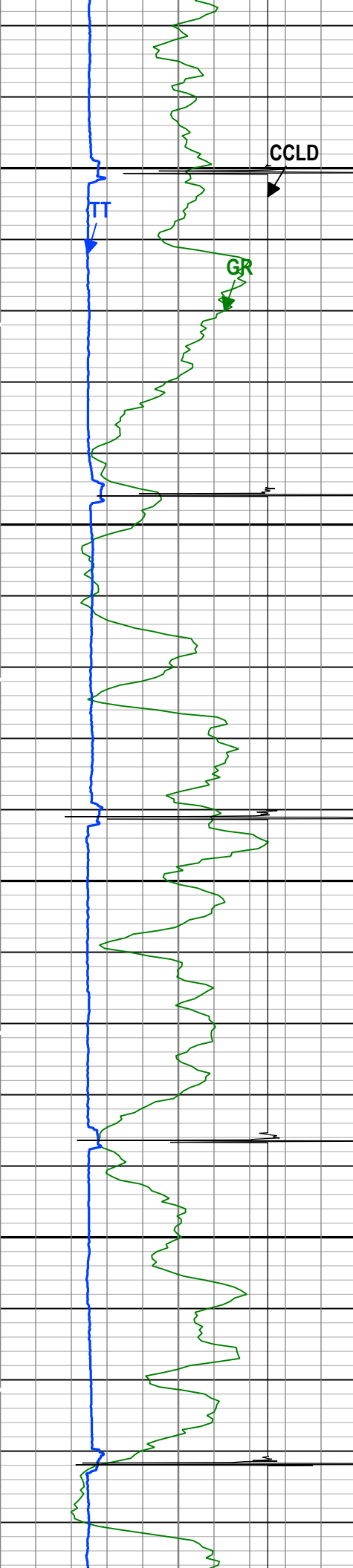


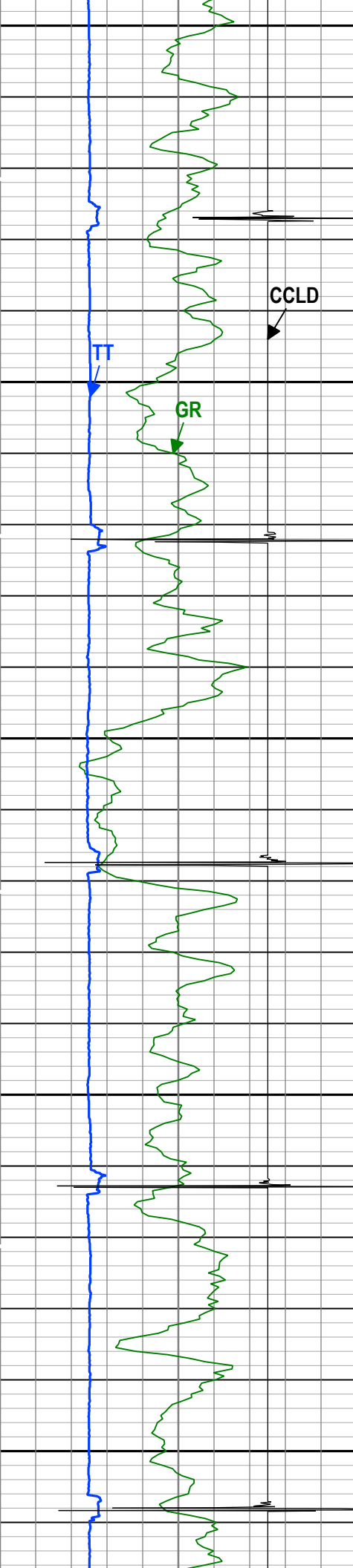
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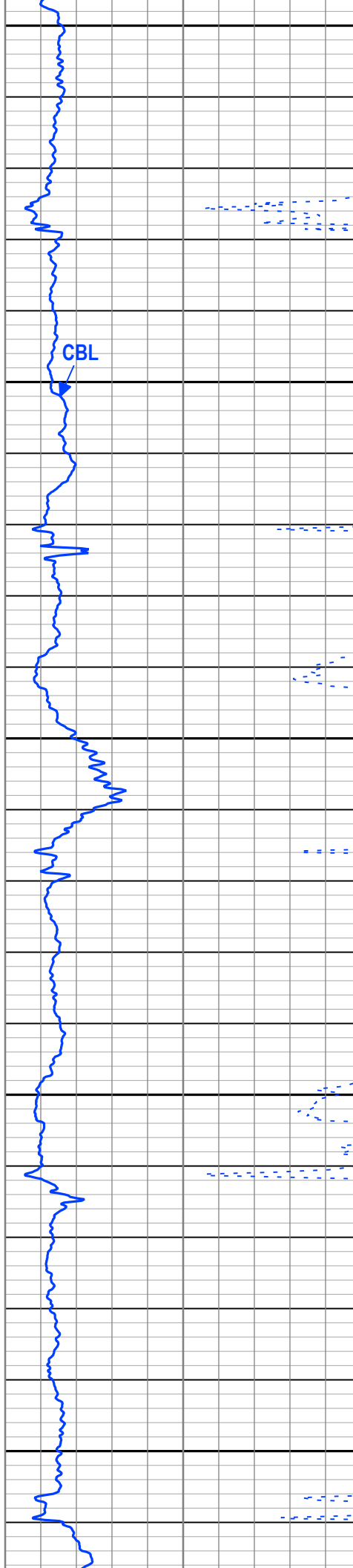


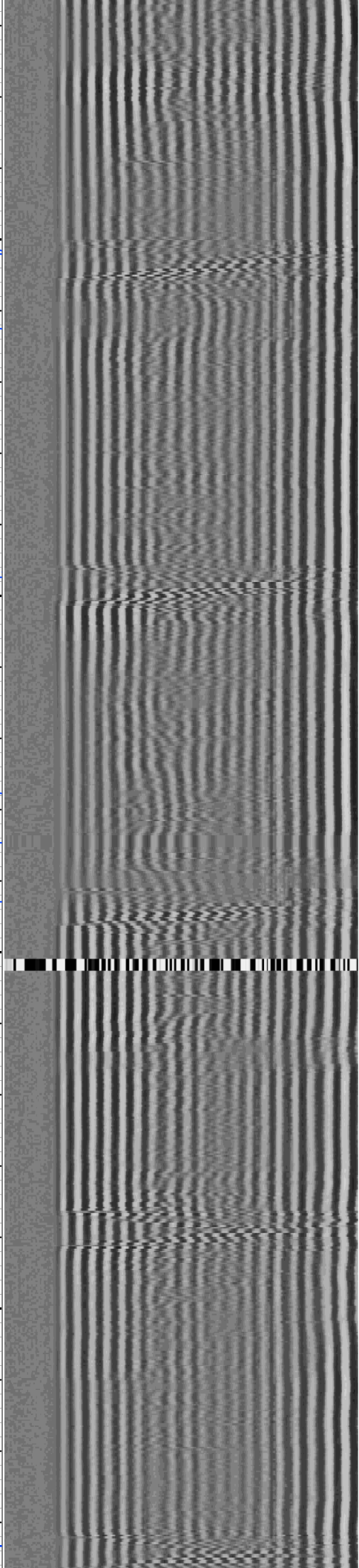
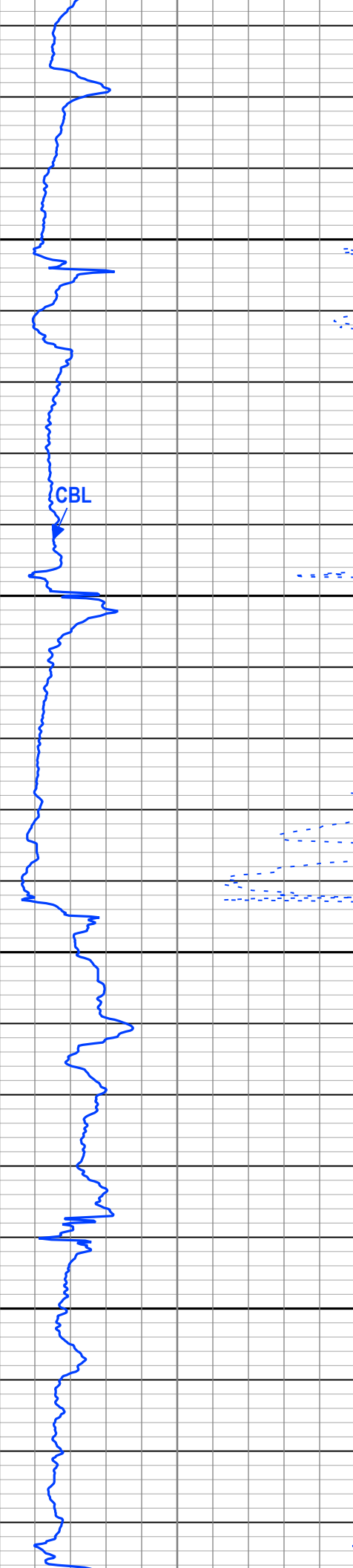
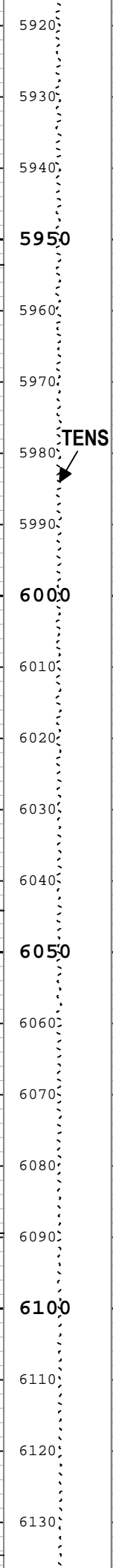
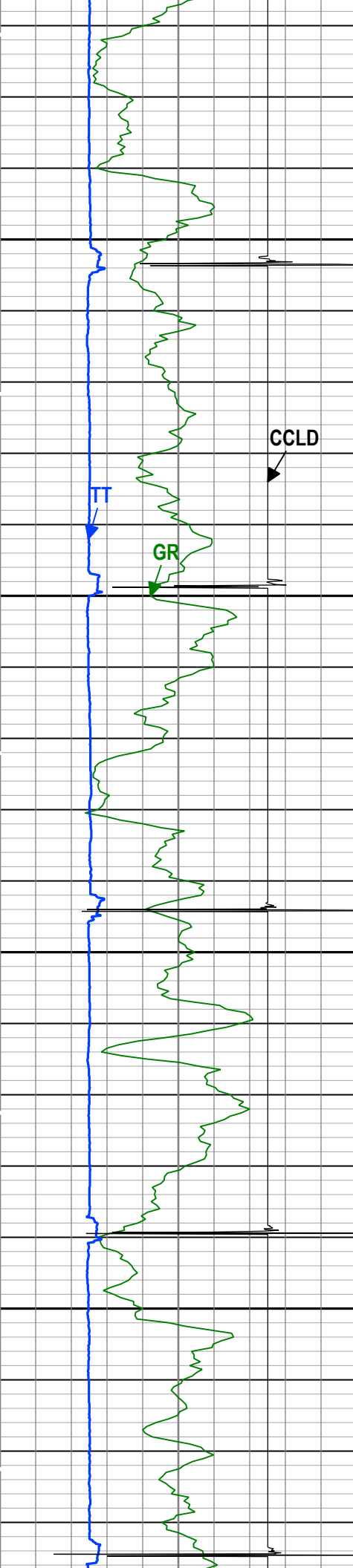




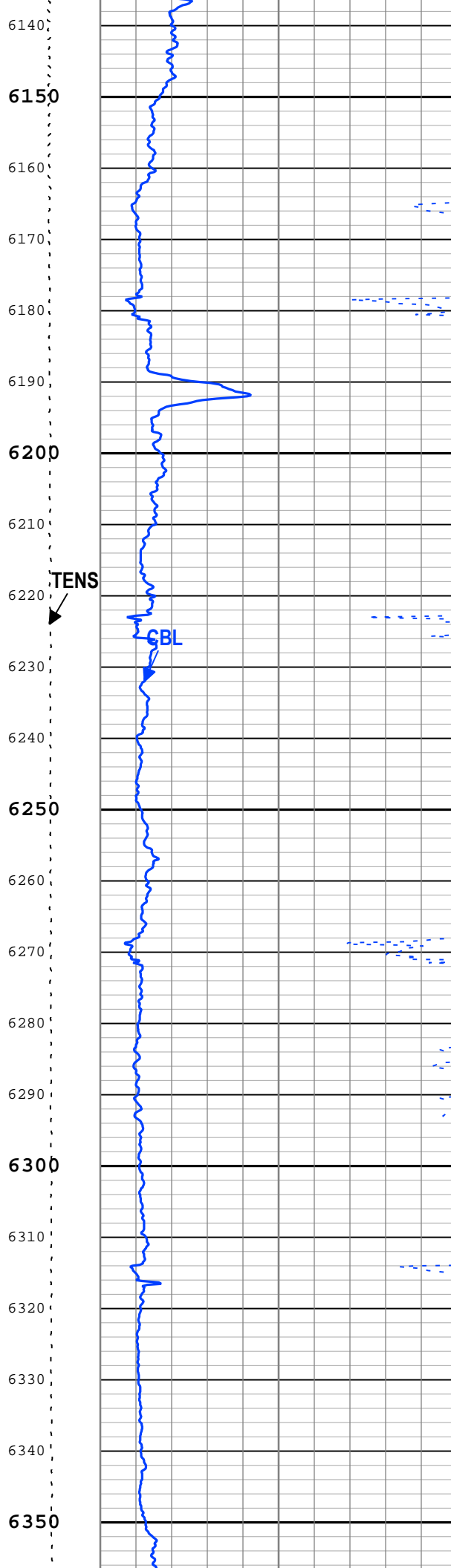
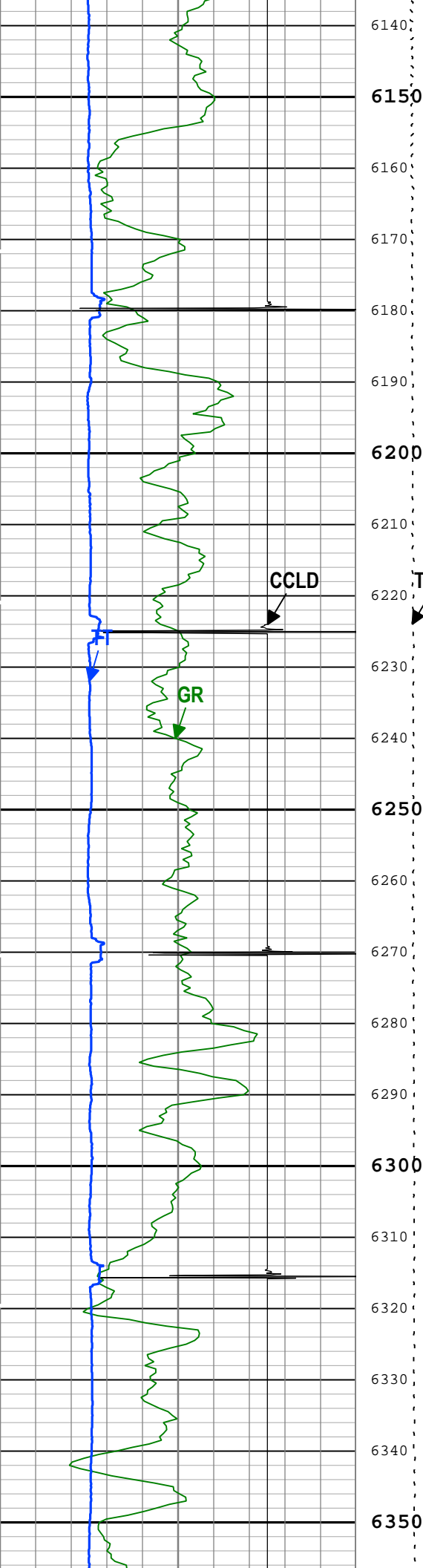


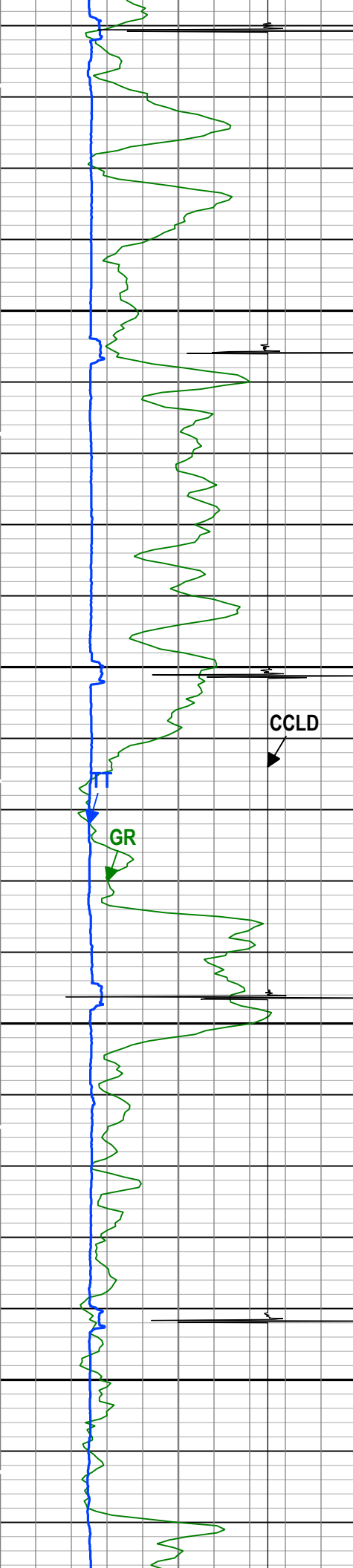
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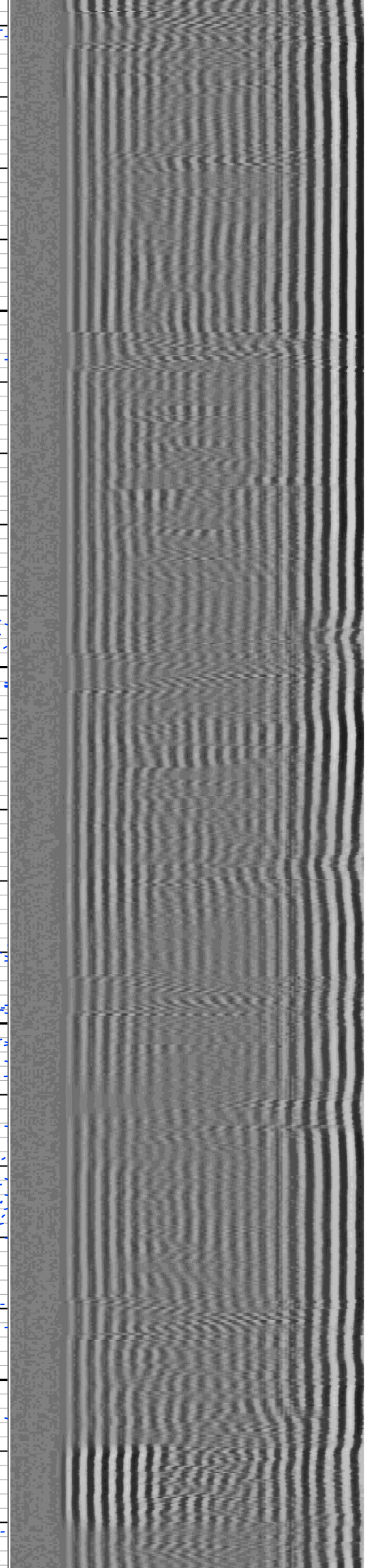
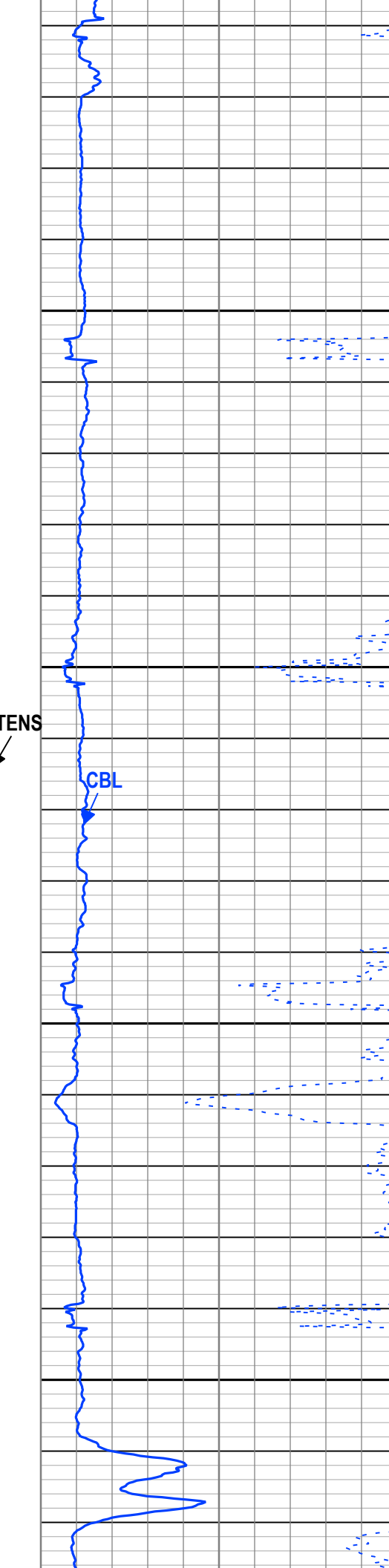


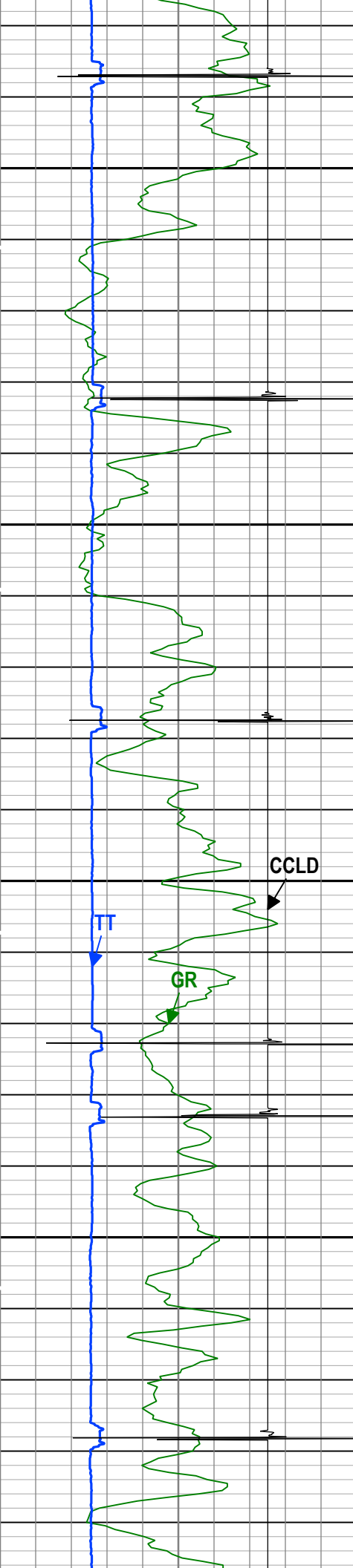




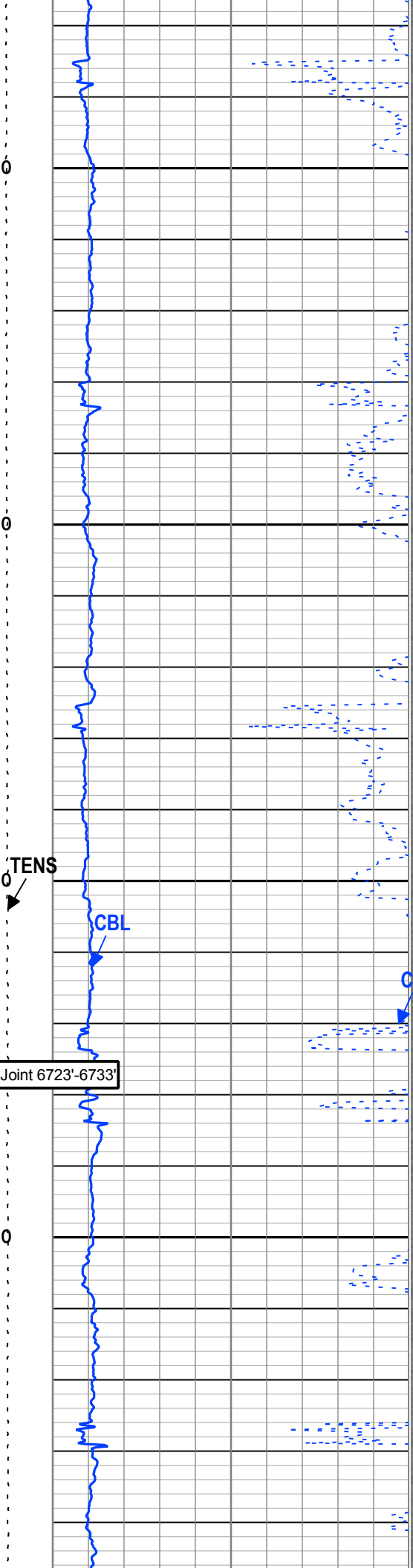


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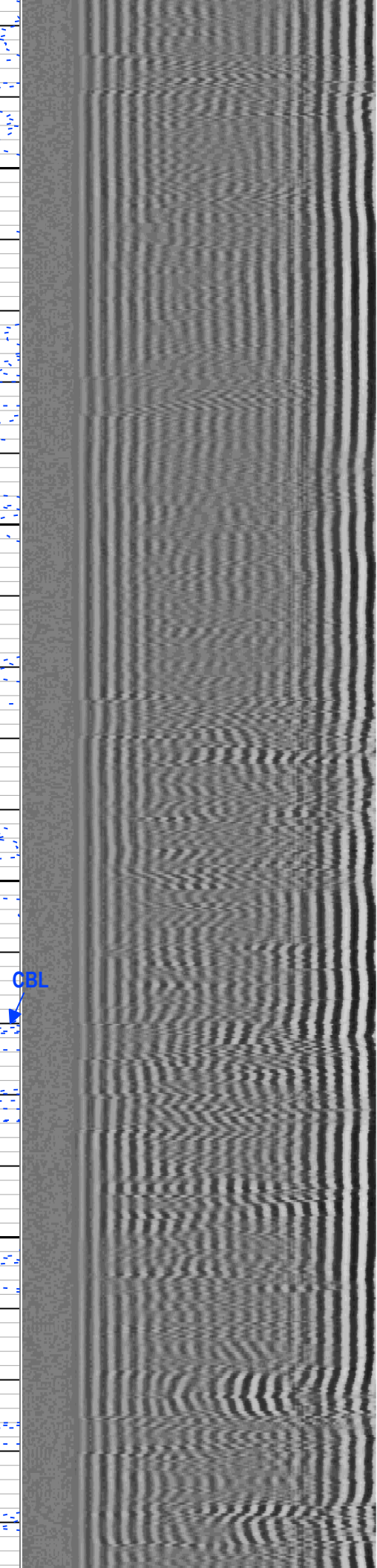


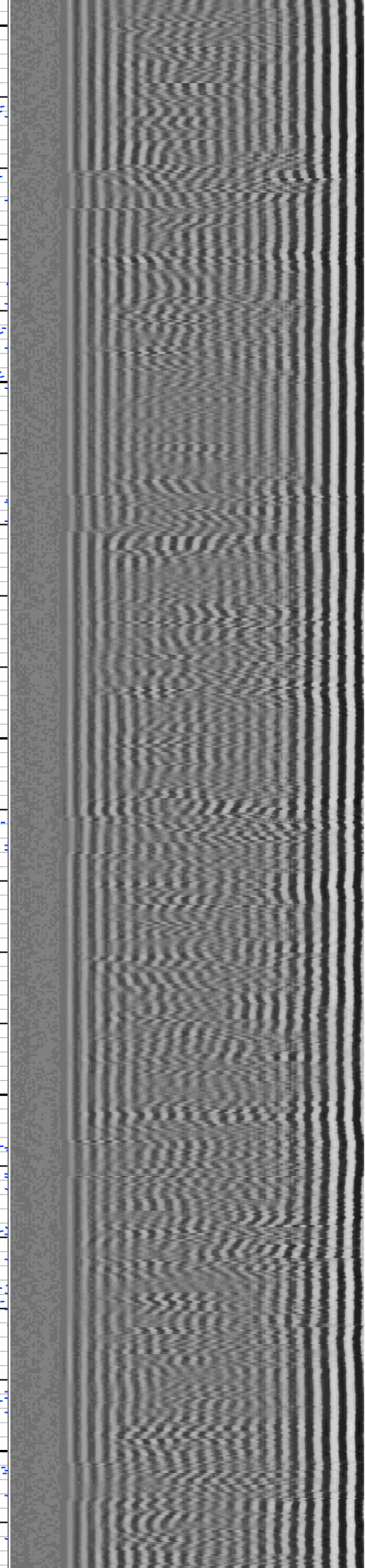
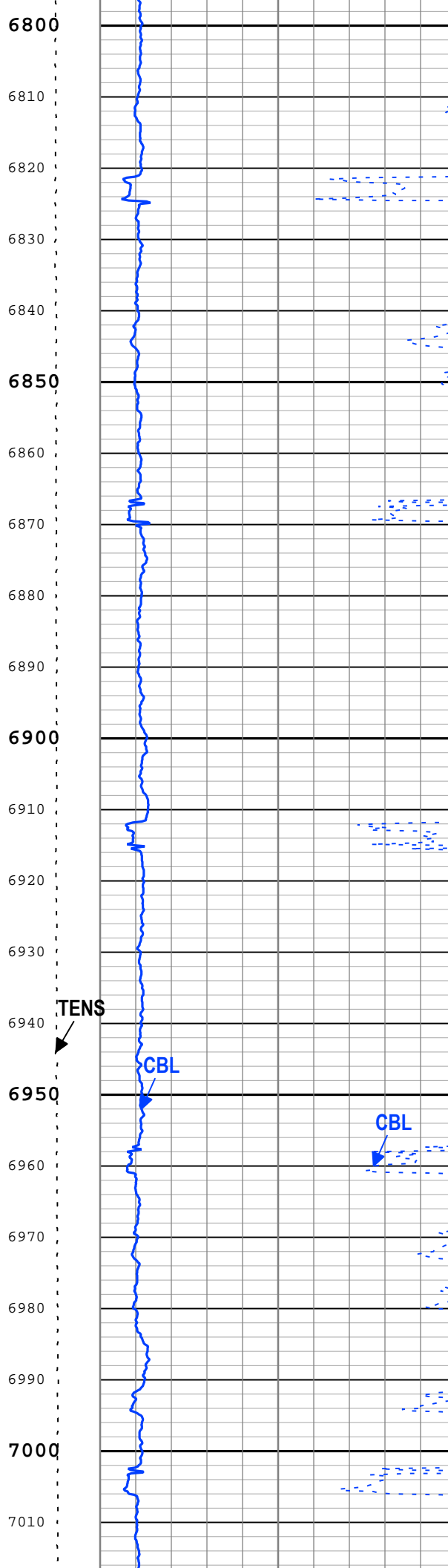
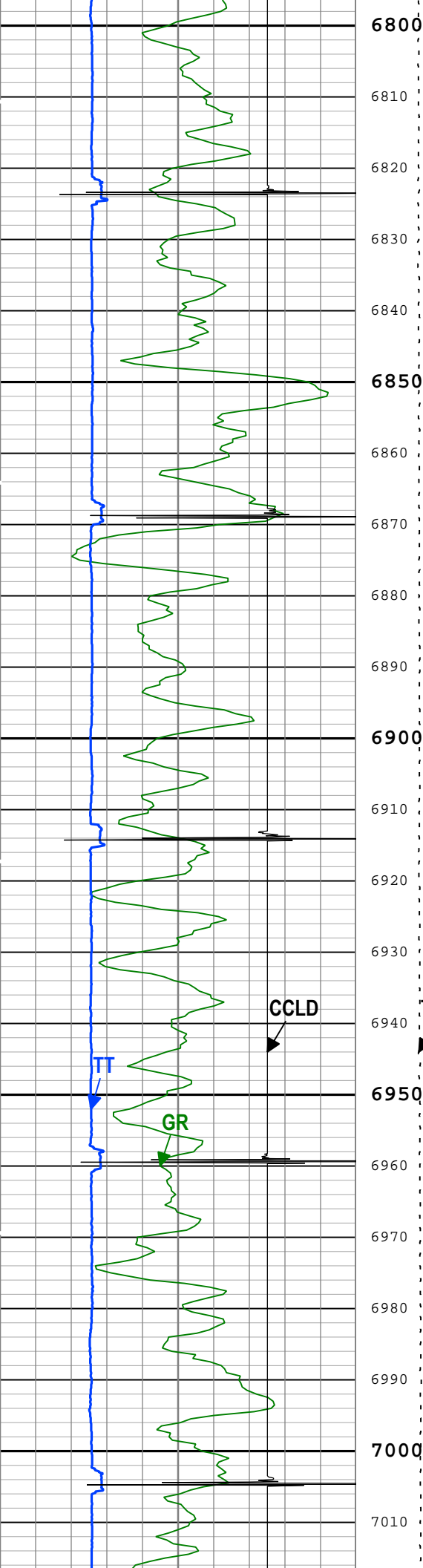


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Short Joint 6723'-6733'

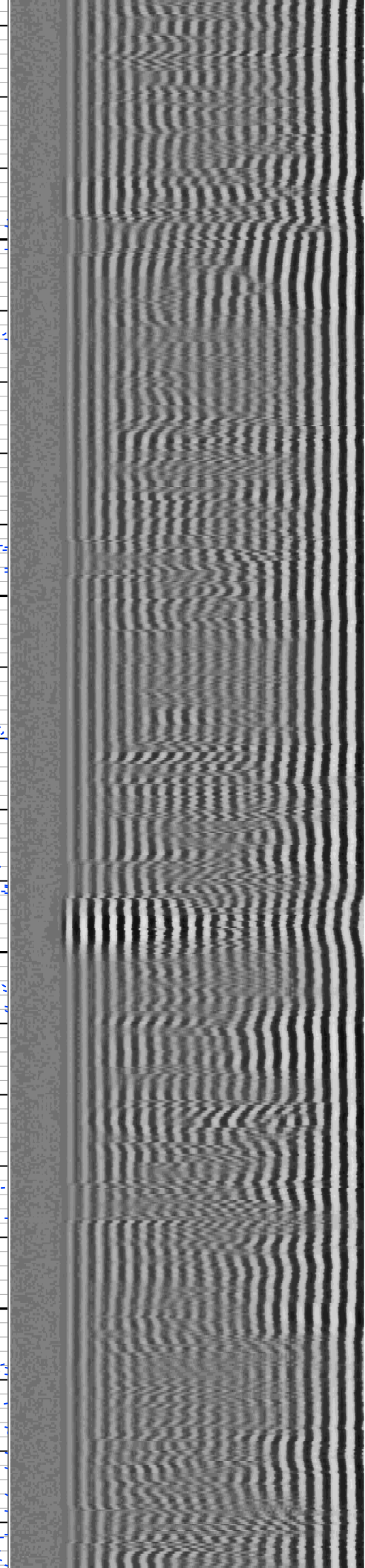
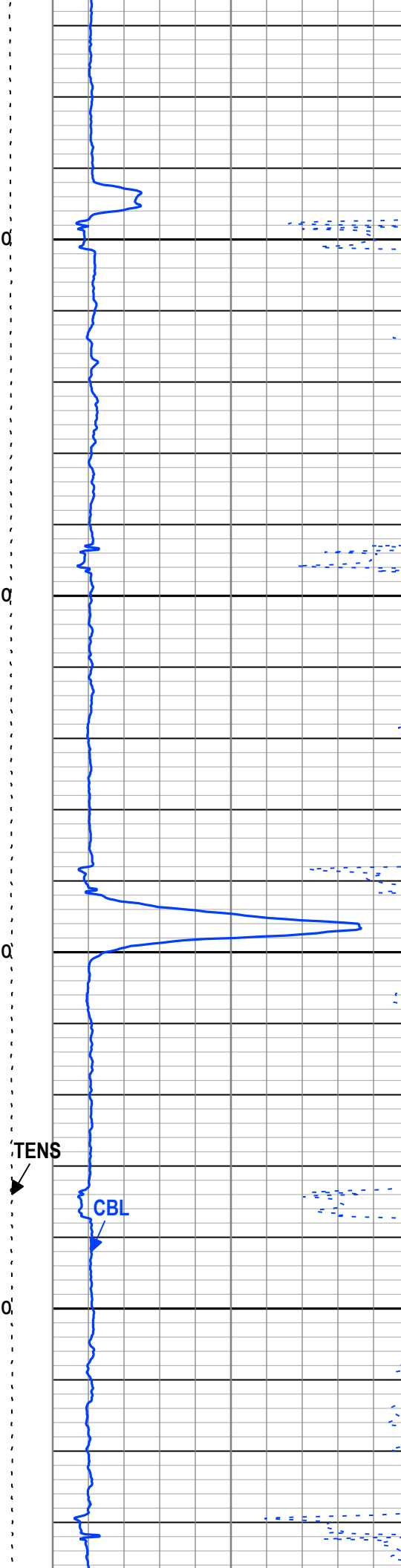


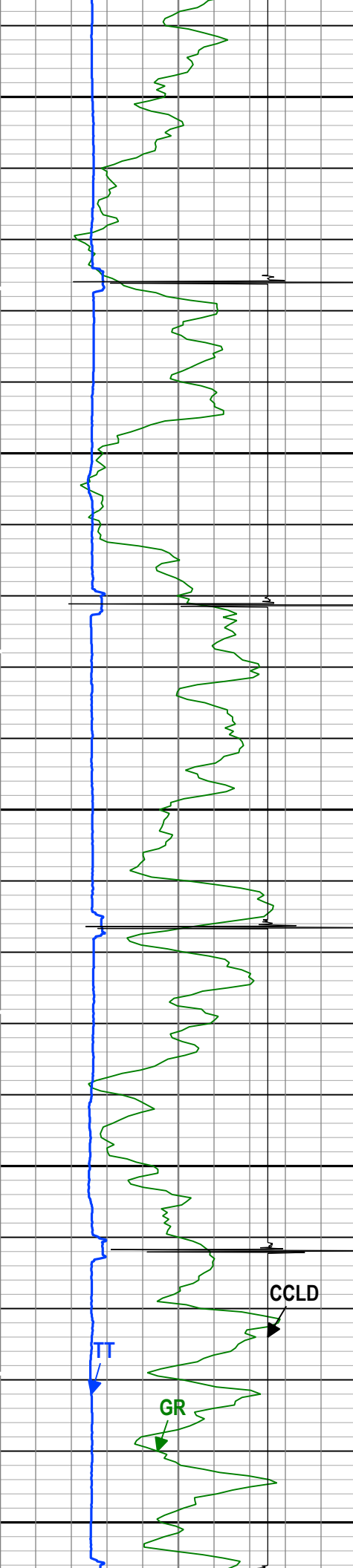




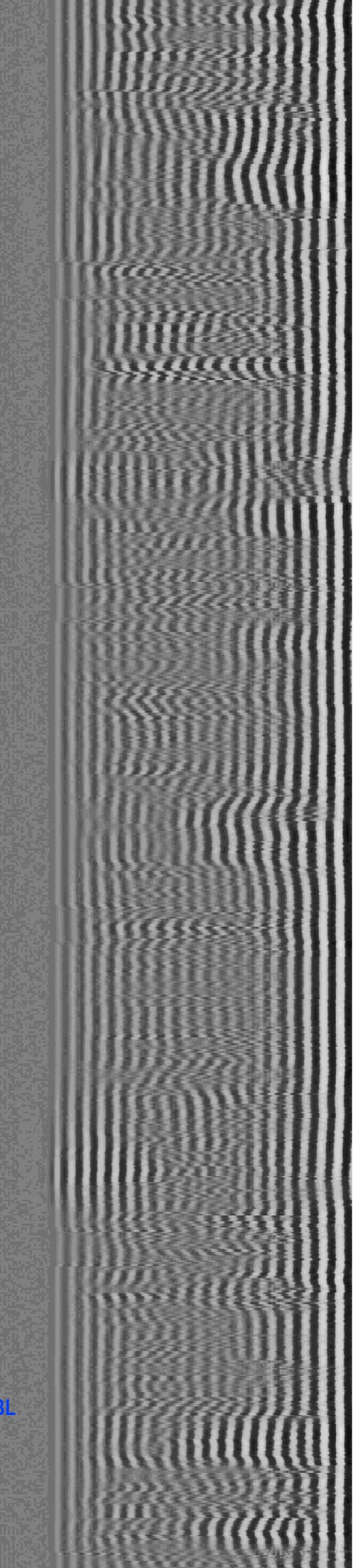
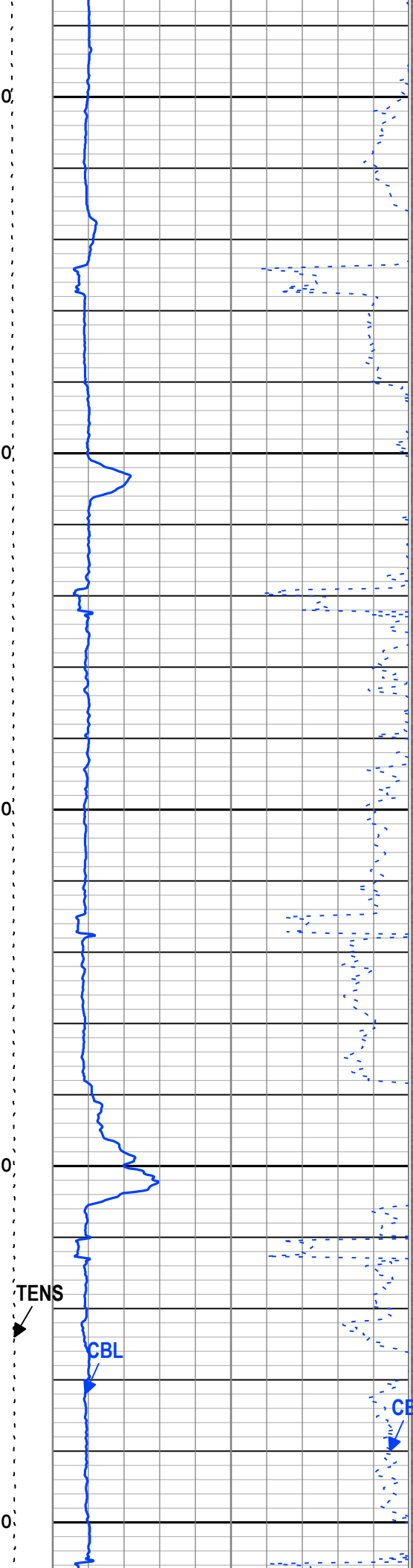


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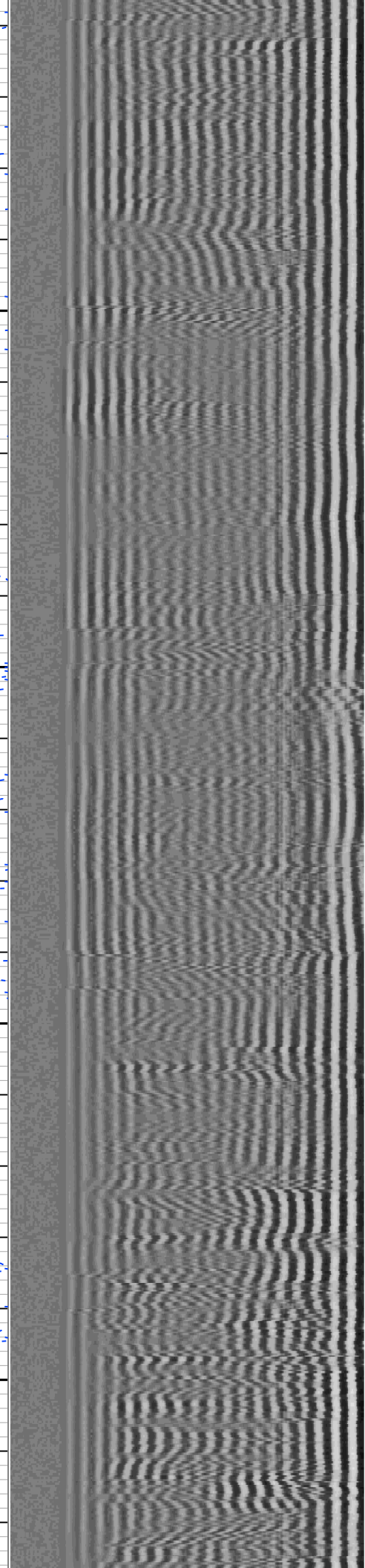
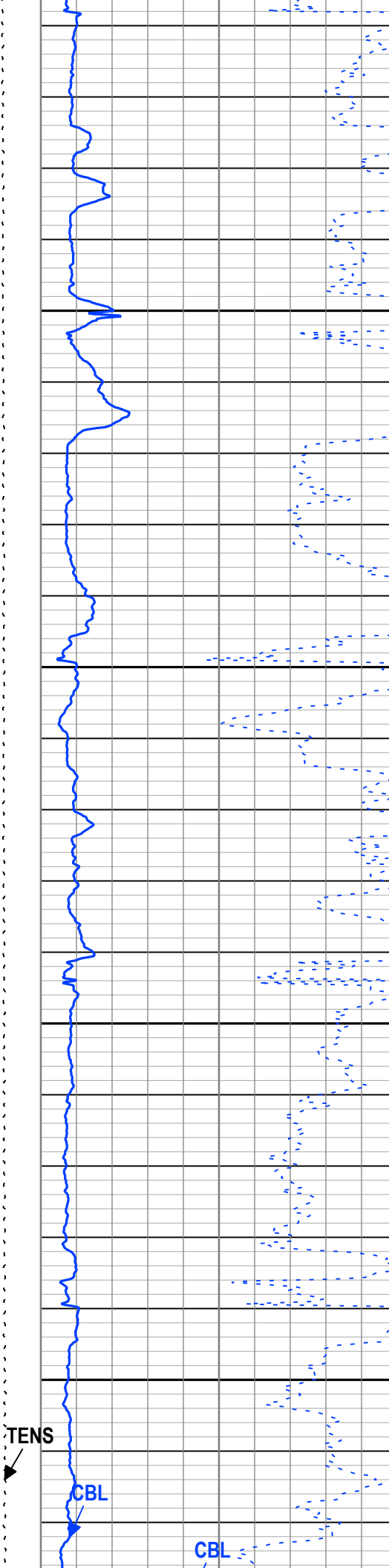
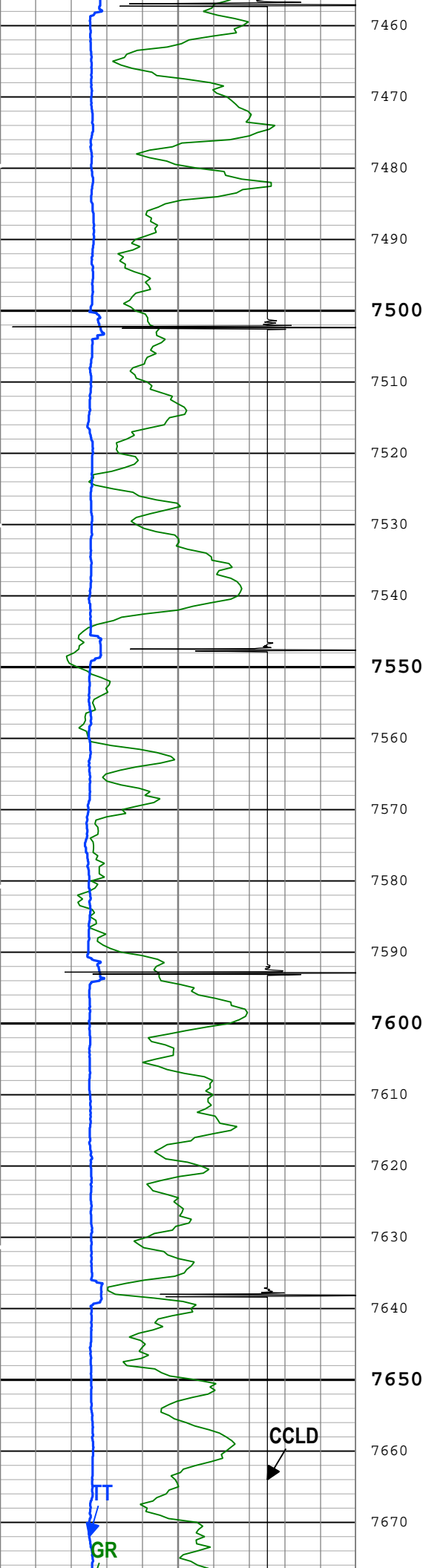
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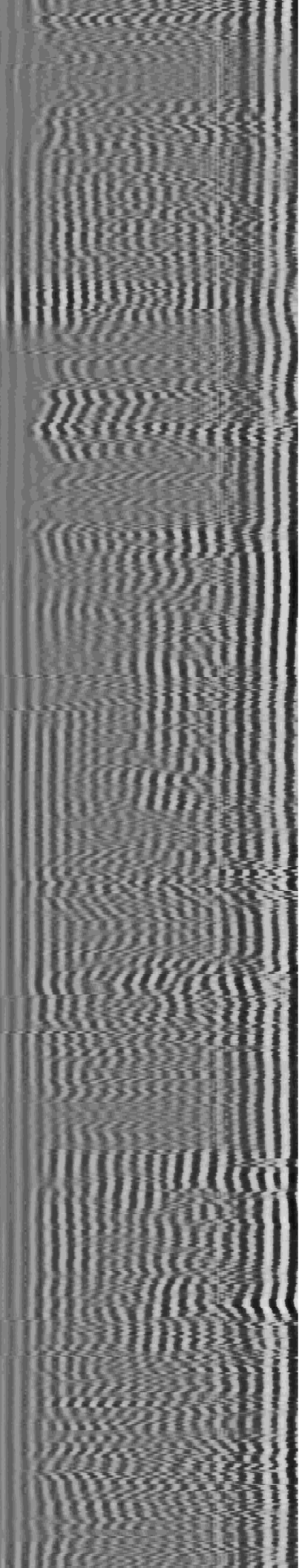
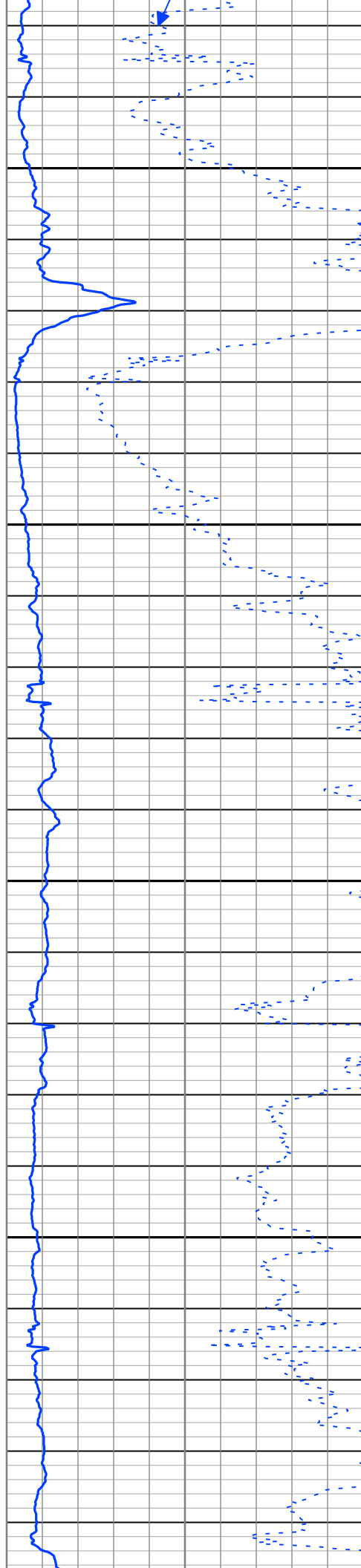
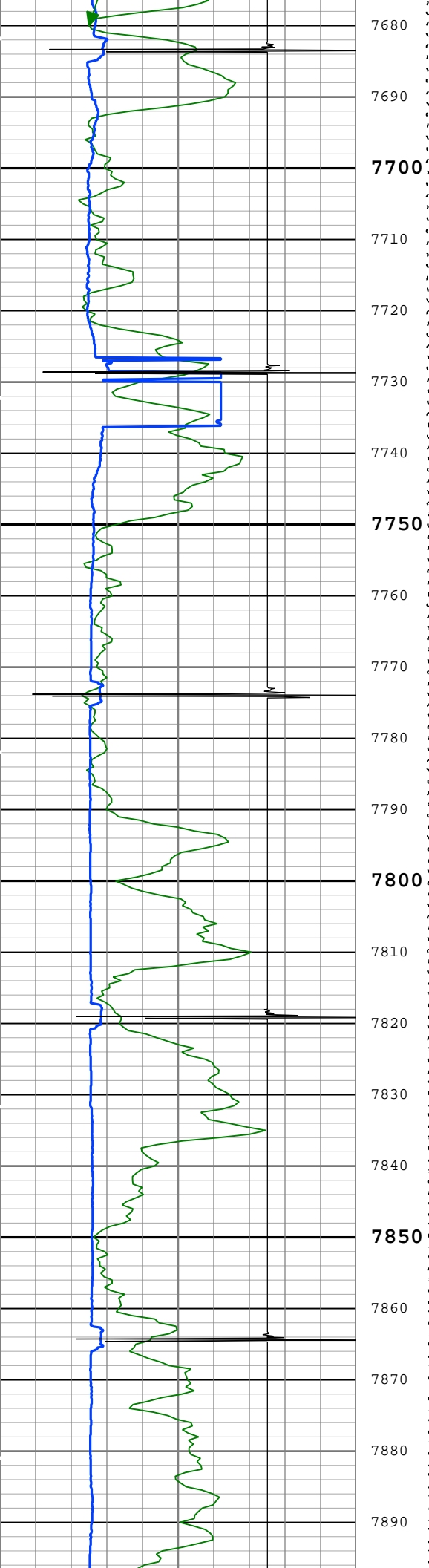
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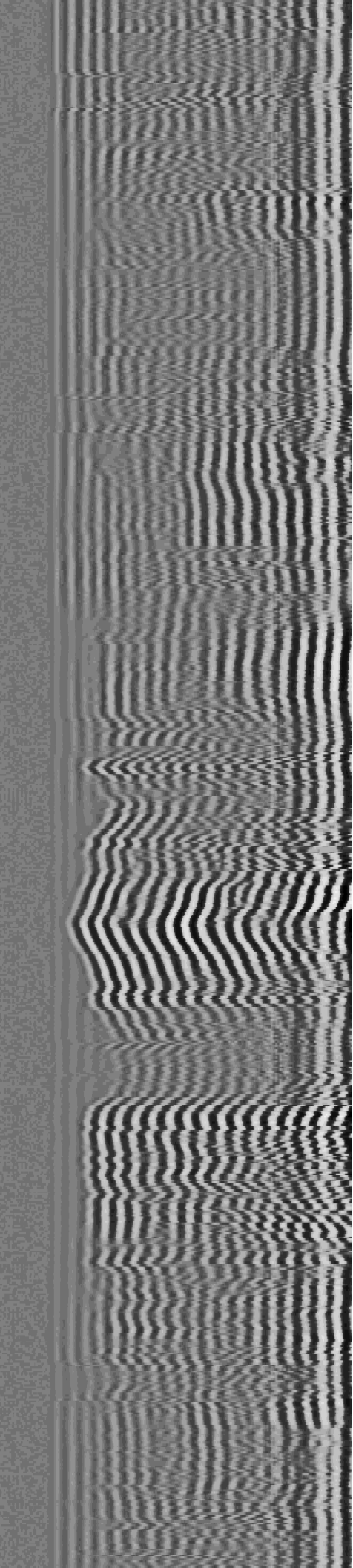
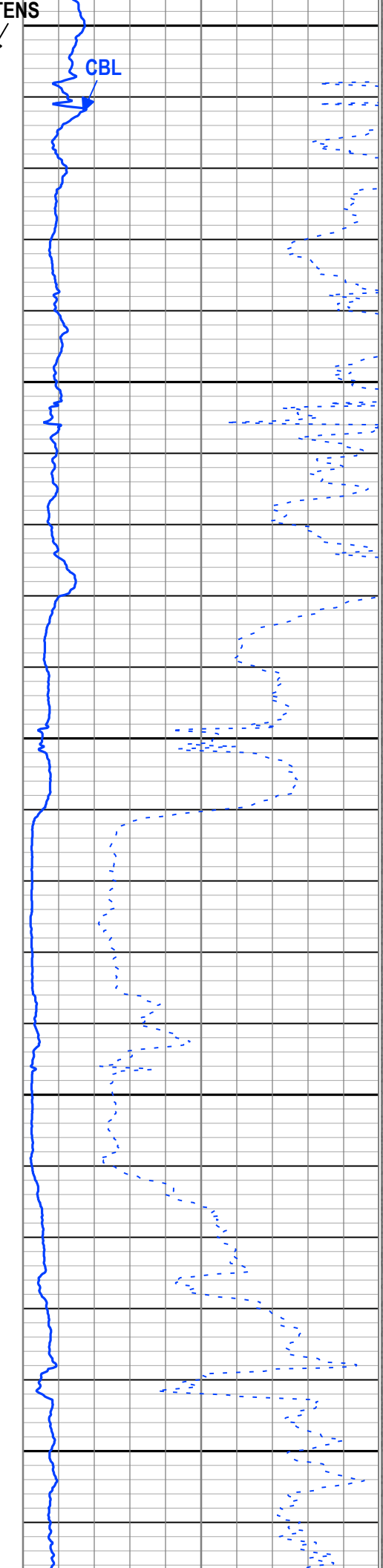
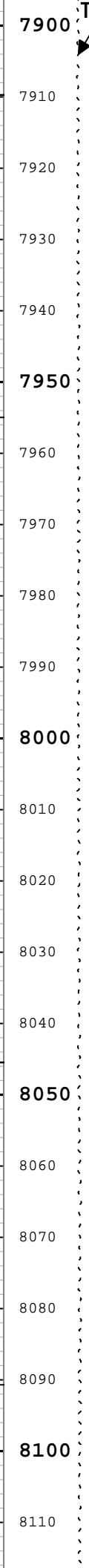
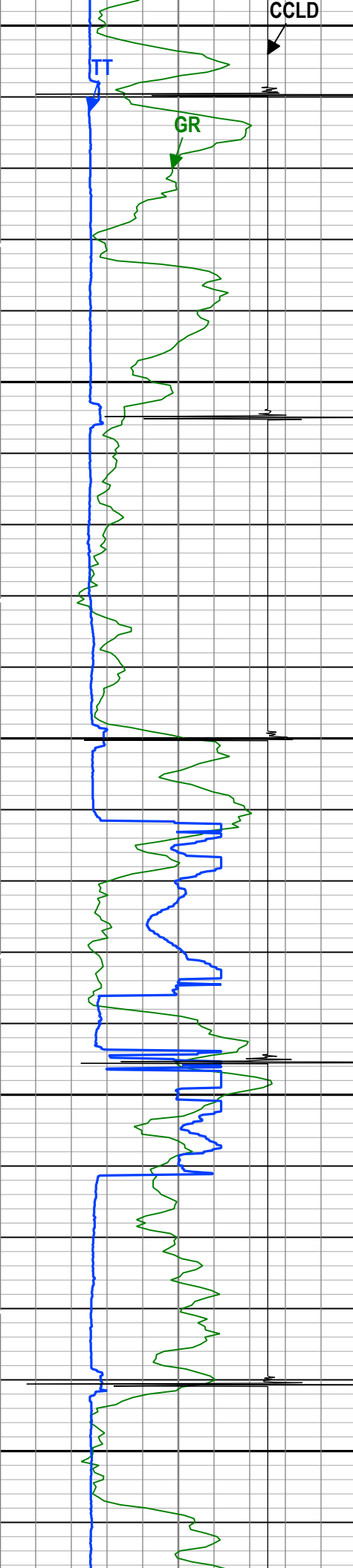
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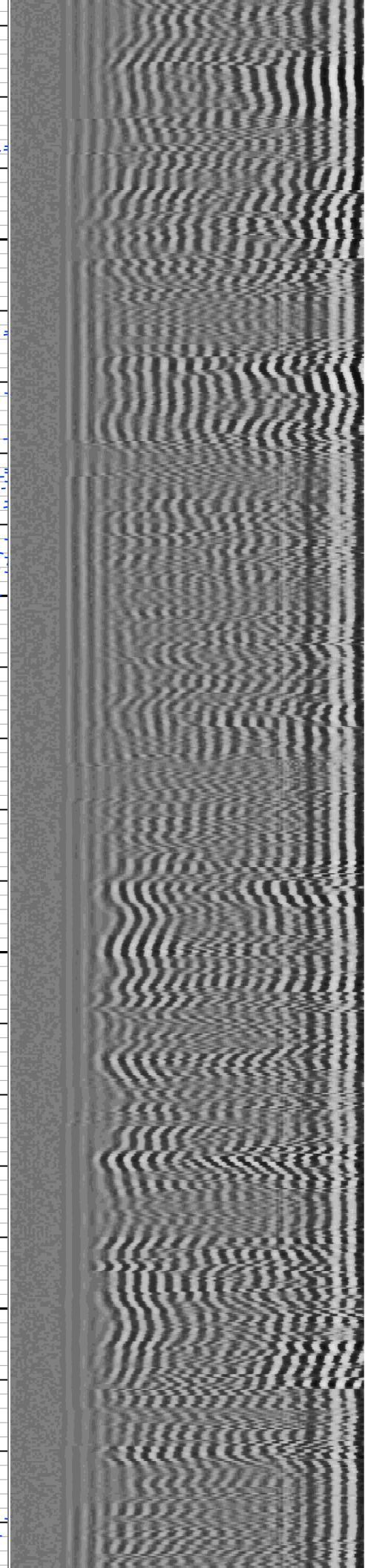
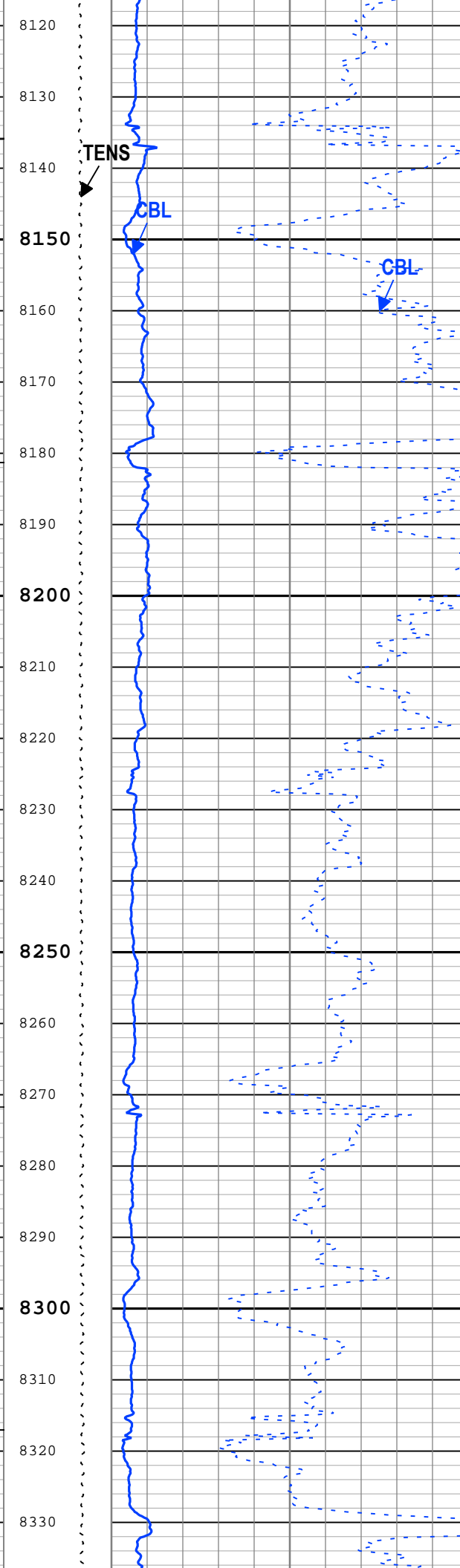
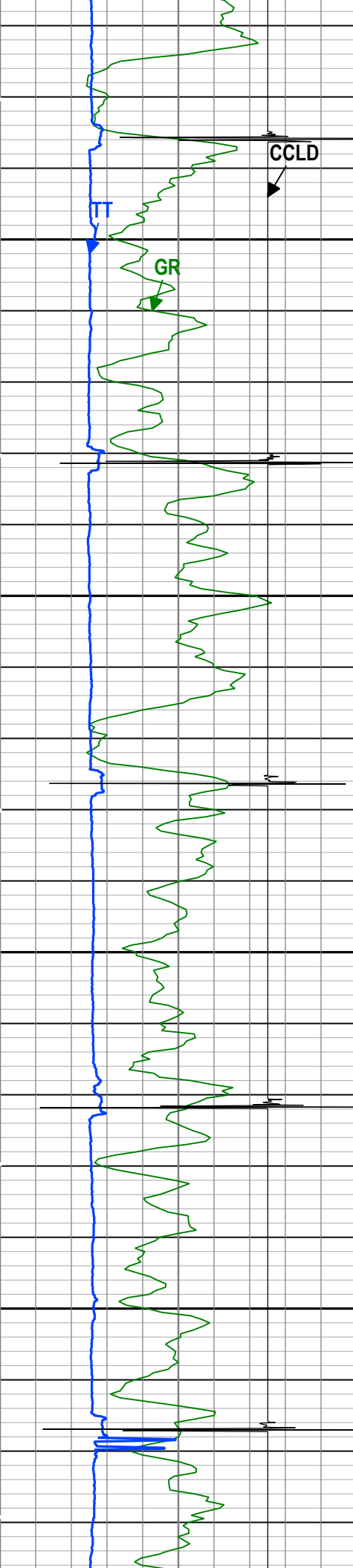
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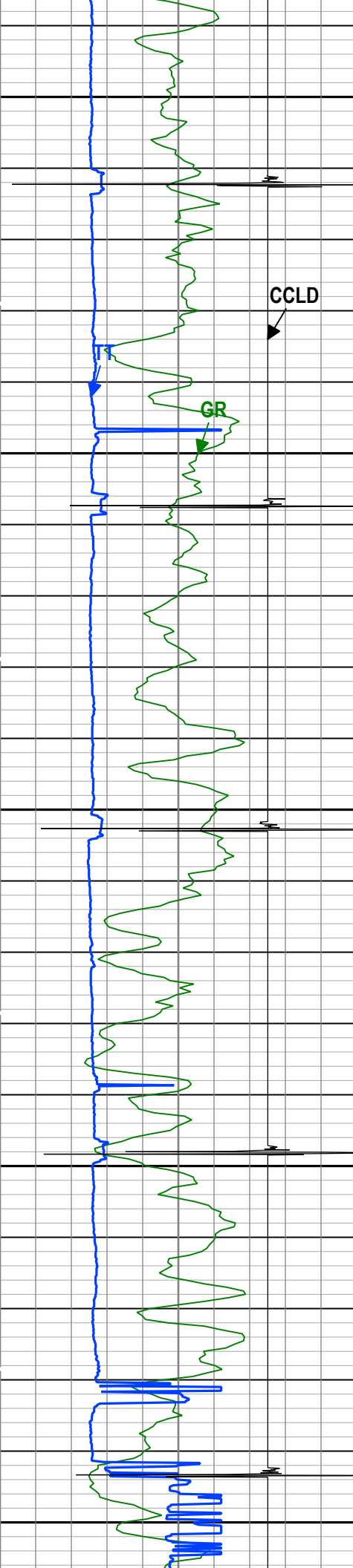




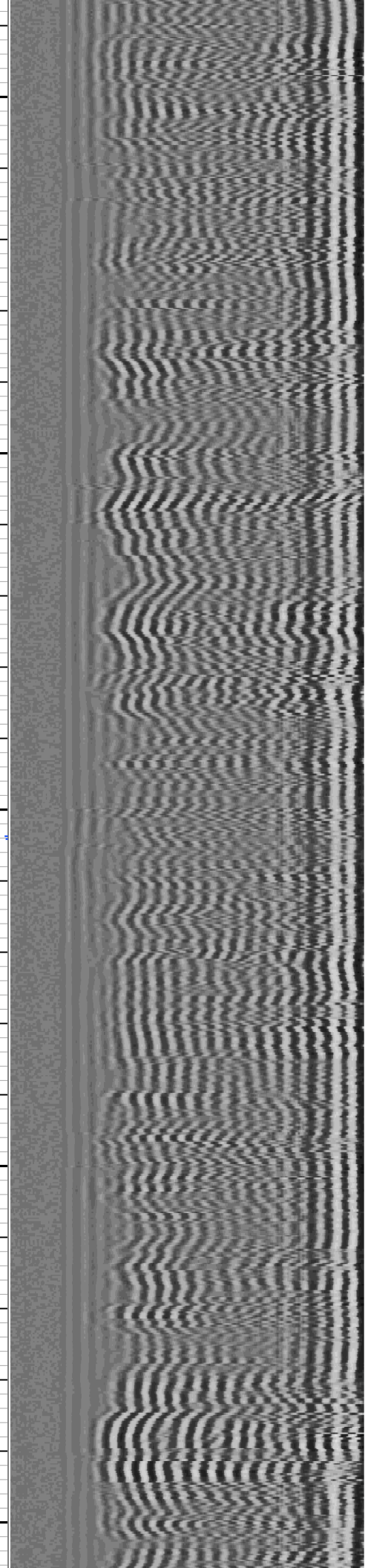
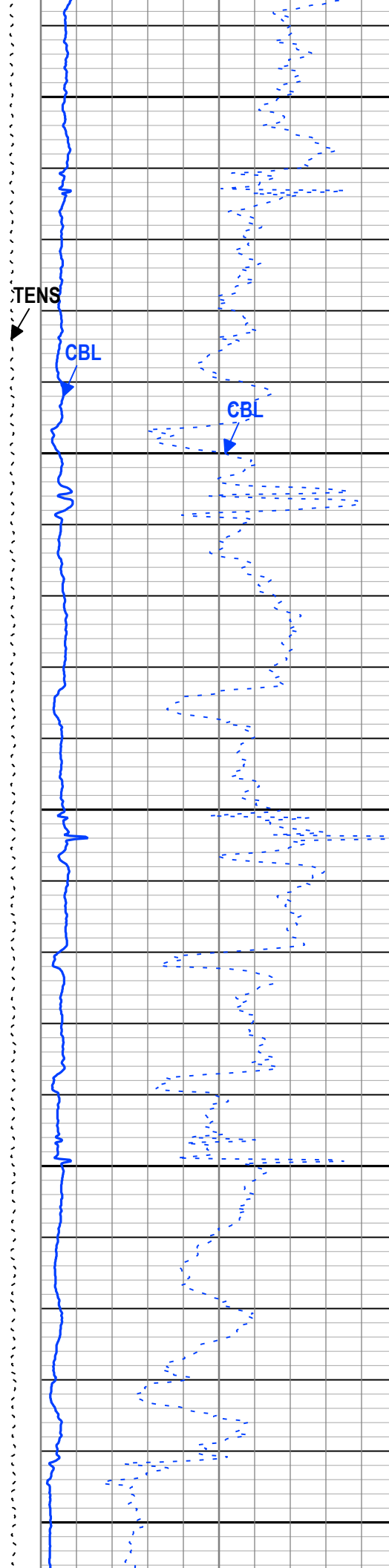




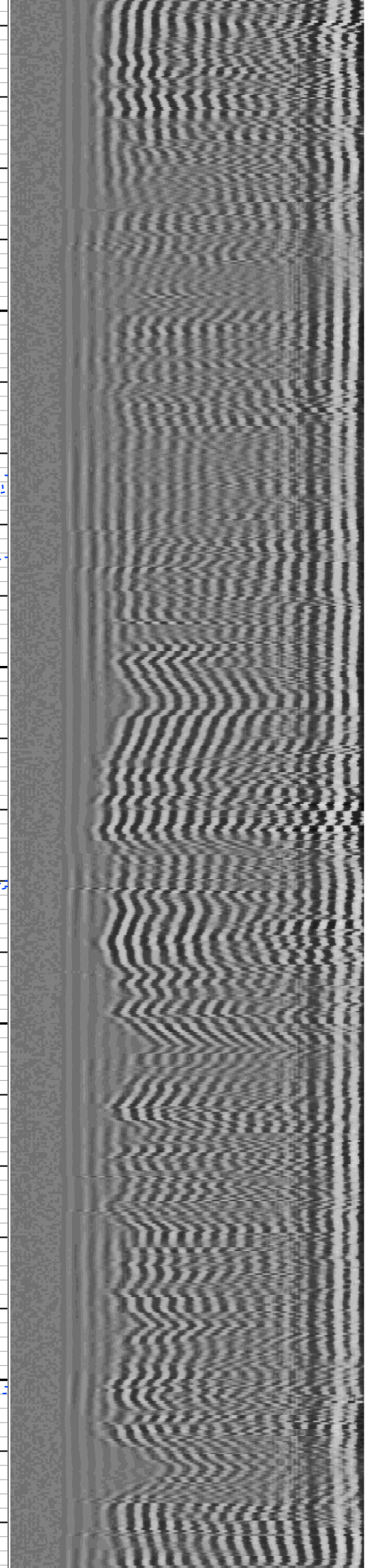
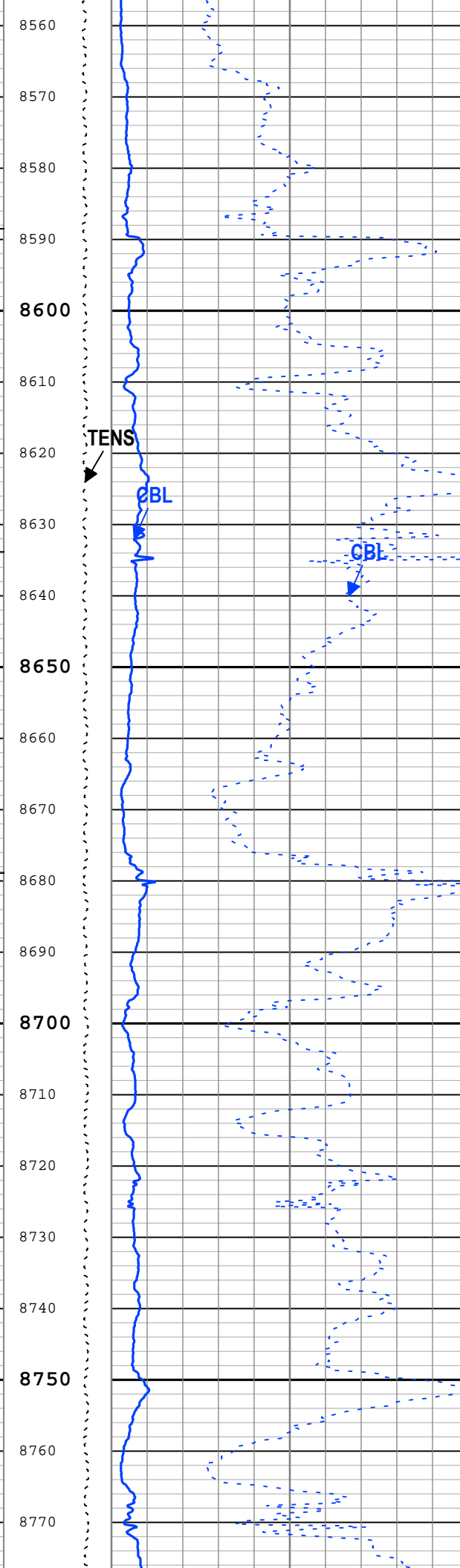
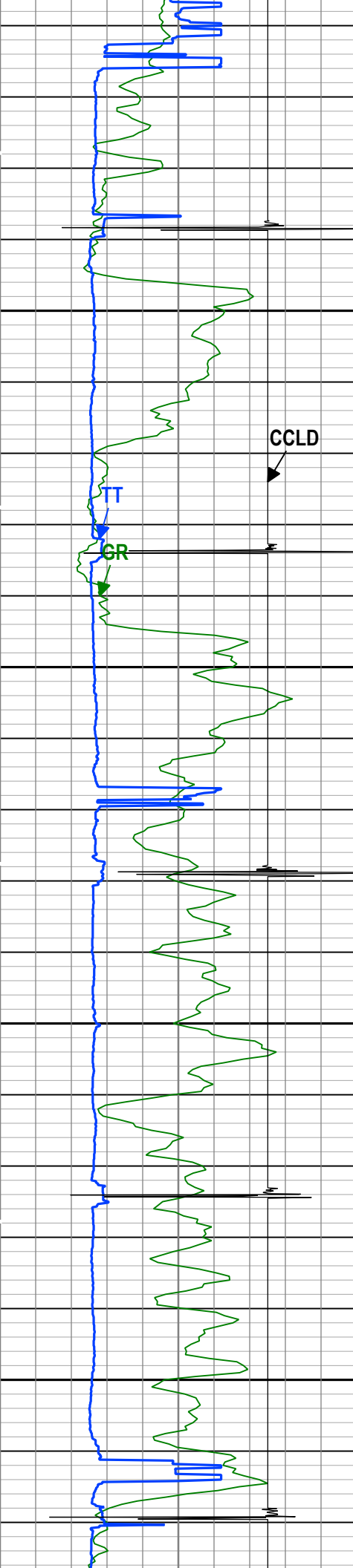


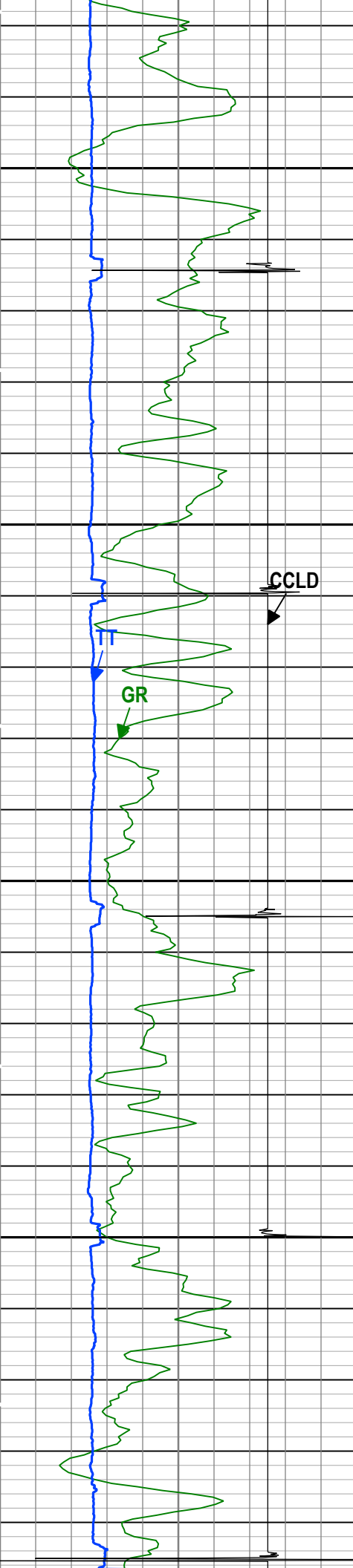


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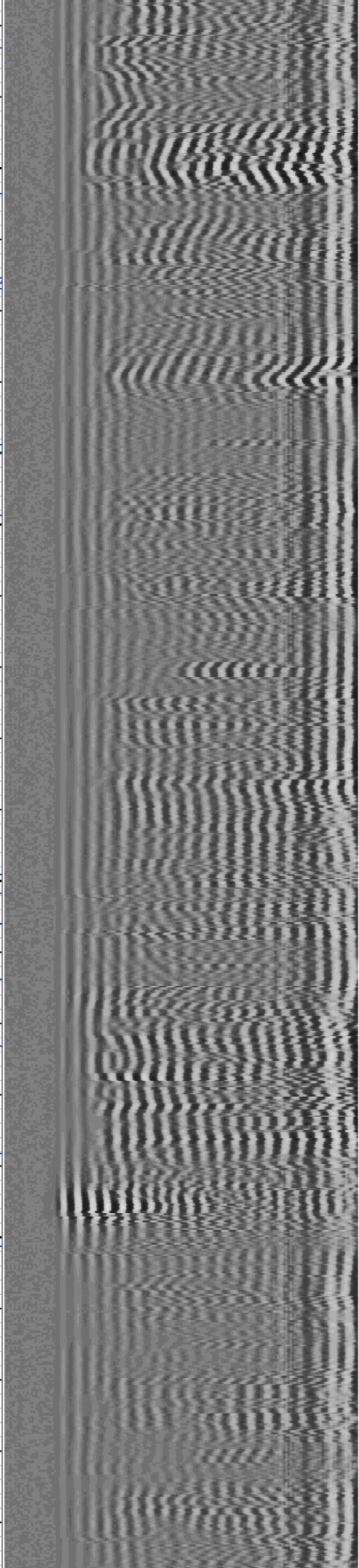
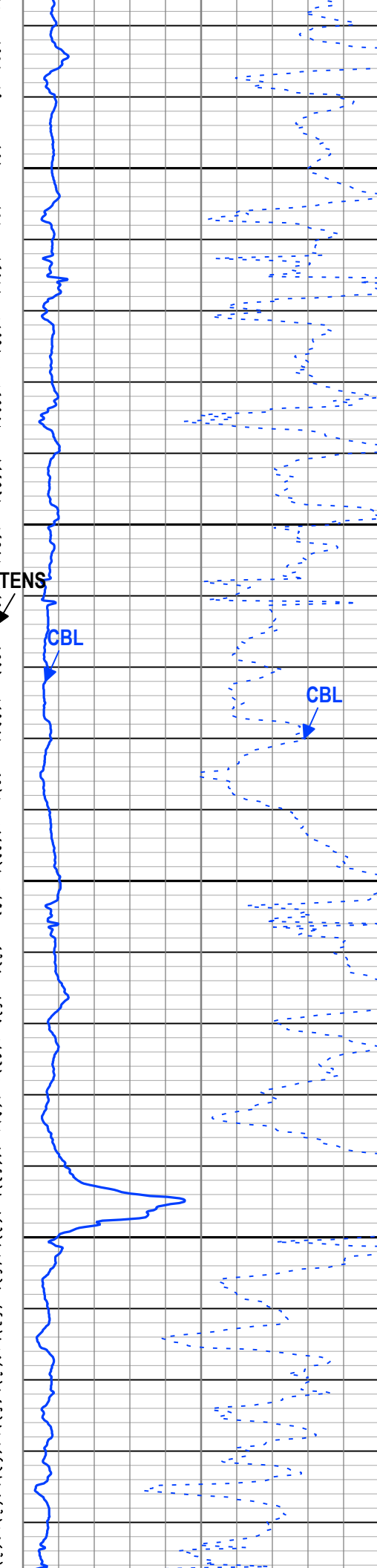


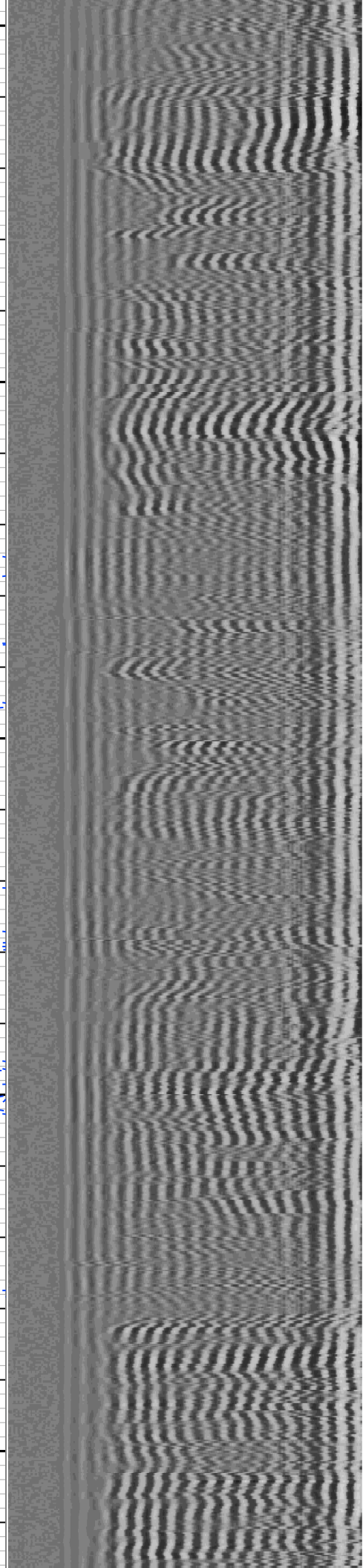
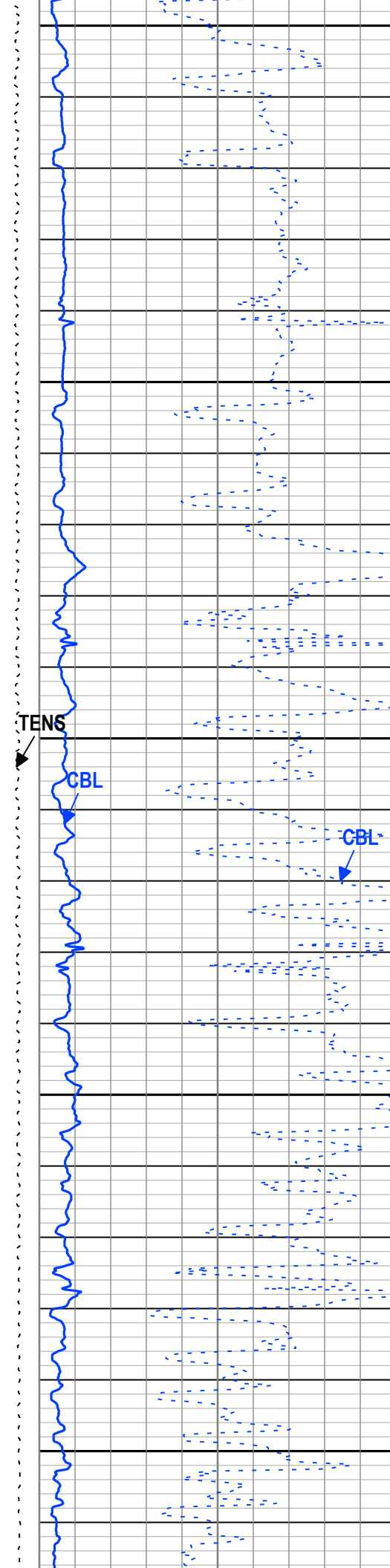
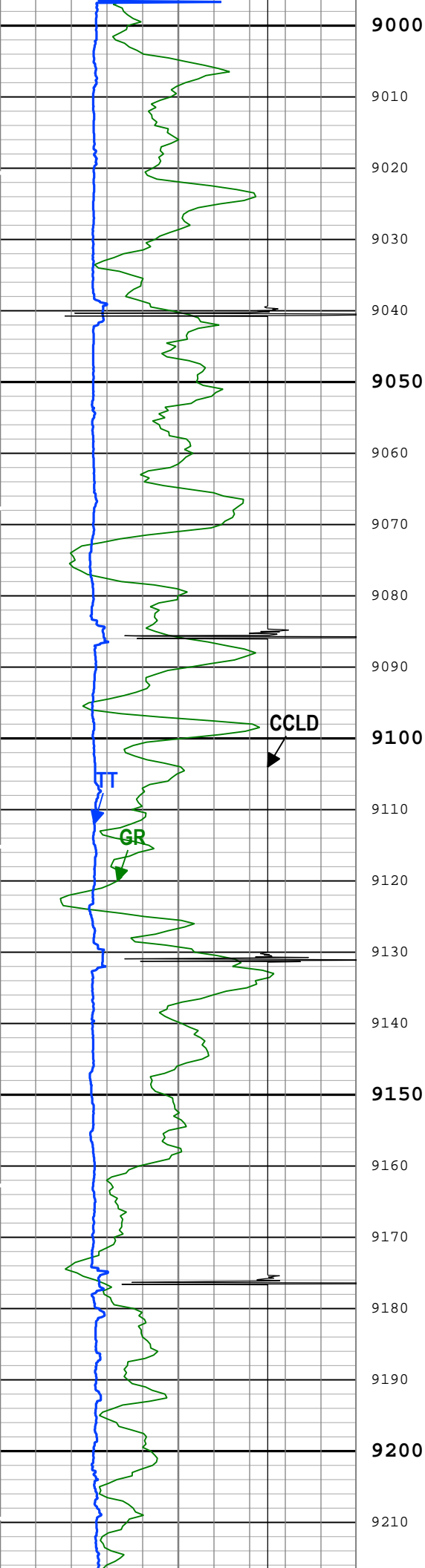






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## One: Parameters

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	8.6	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	8432	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	12 dB	

One

Repeat Pass

Software Version

Acquisition System	Version
Maxwell 2017 SP3	7.3.92069.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[4]:Up	Up	8858.30 ft	9341.16 ft	22-Dec-2017 9:54:39 PM	22-Dec-2017 10:06:31 PM	ON	6.74 ft	Yes

All depths are referenced to toolstring zero

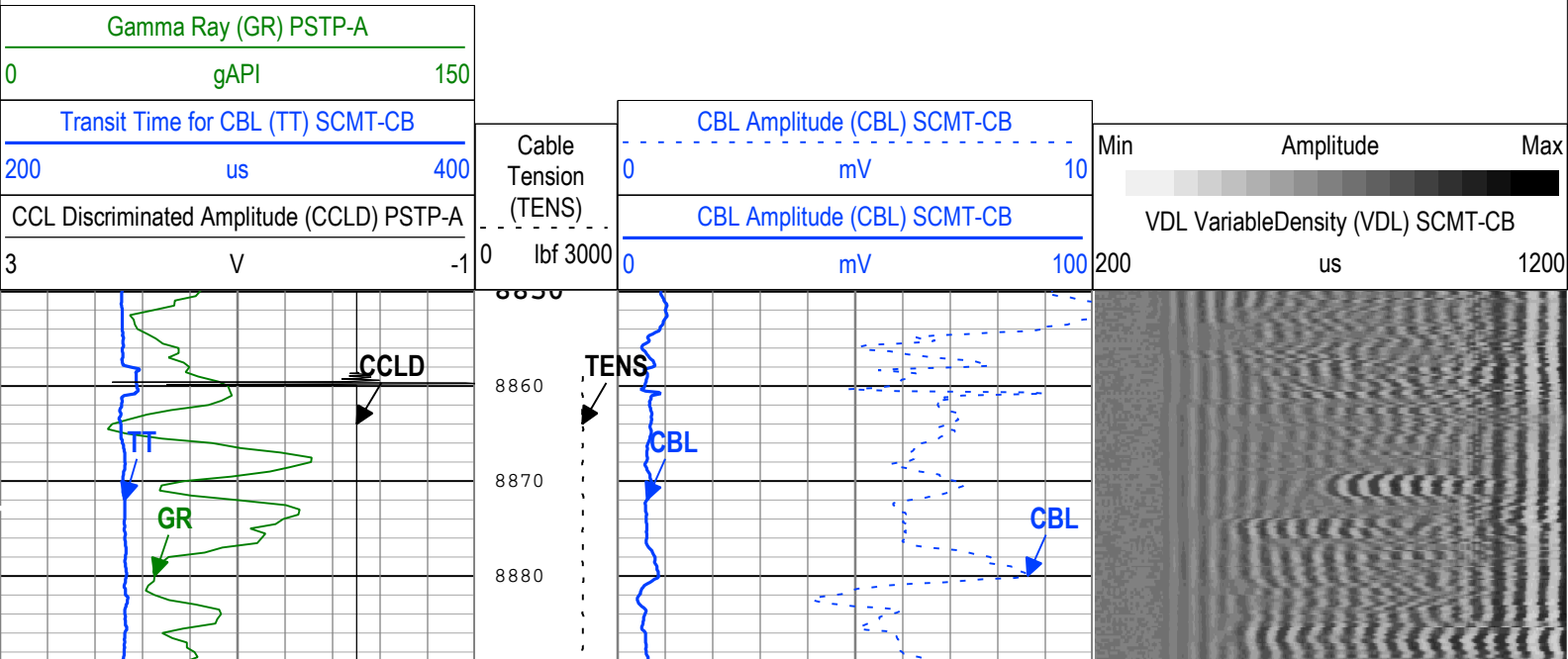
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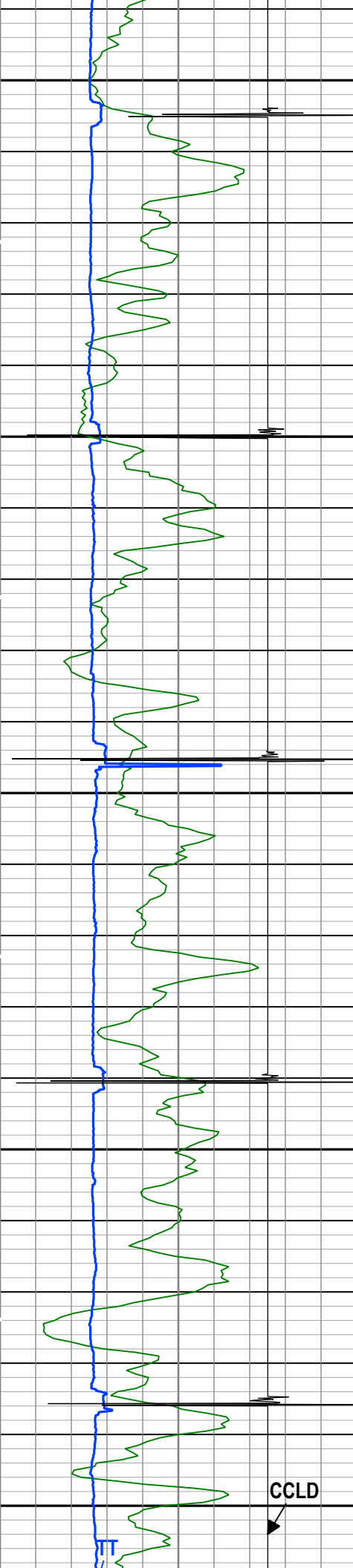
Company:Caerus Operating LLC      Well:Puckett 34A-23 697

One: Log[4]:Up:S005

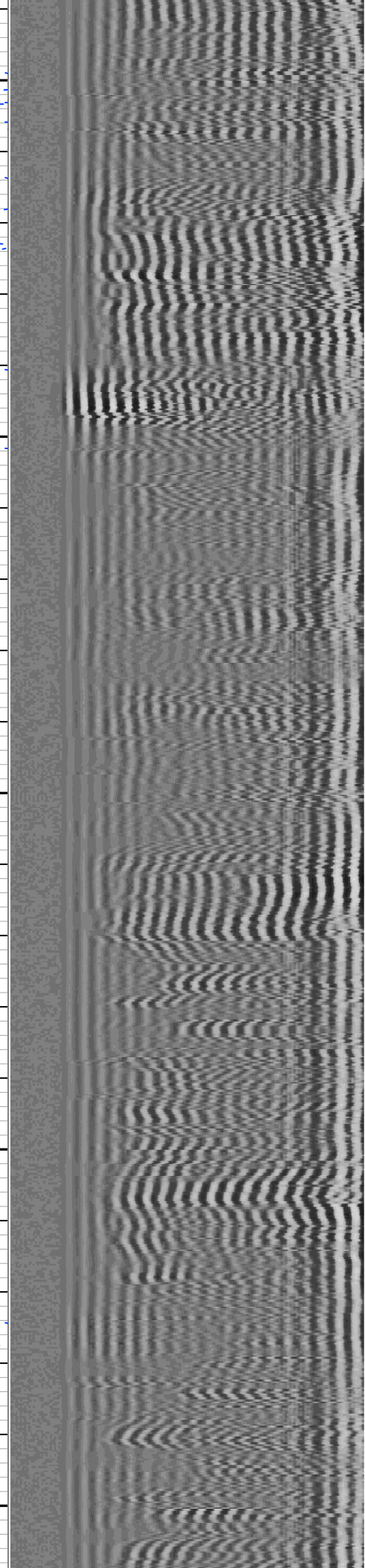
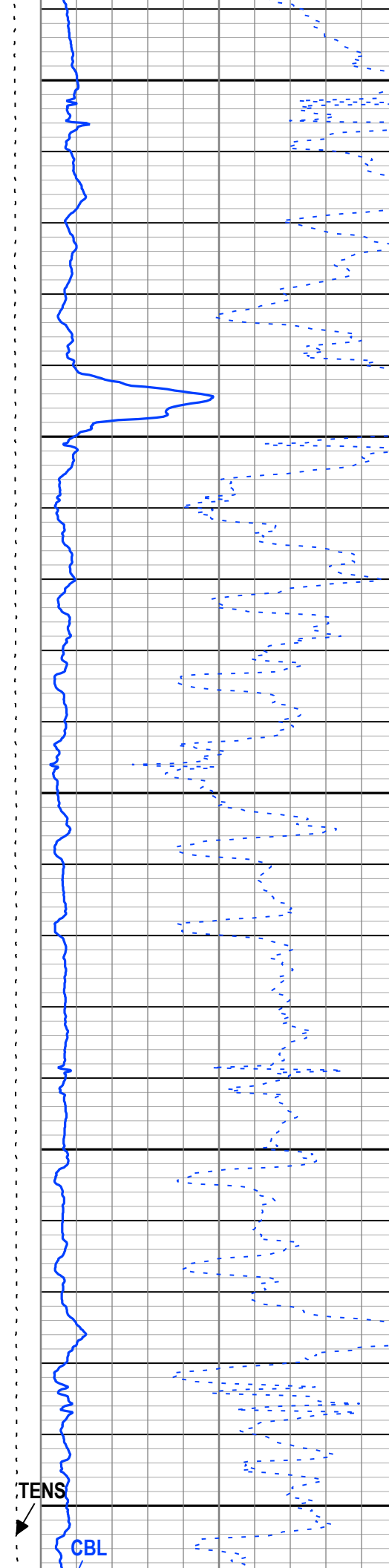
Description: SCMT Amplitudes and VDL    Format: Log ( SCMT\_Amp\_VDL )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth  
Creation Date: 07-Jan-2018 11:41:02

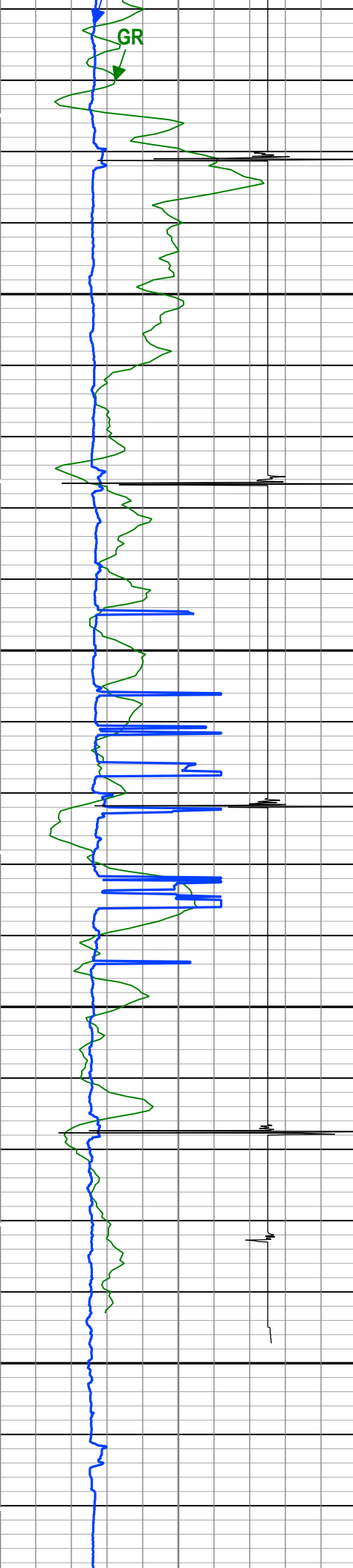
TIME\_1900 - Time Marked every 60.00 (s)



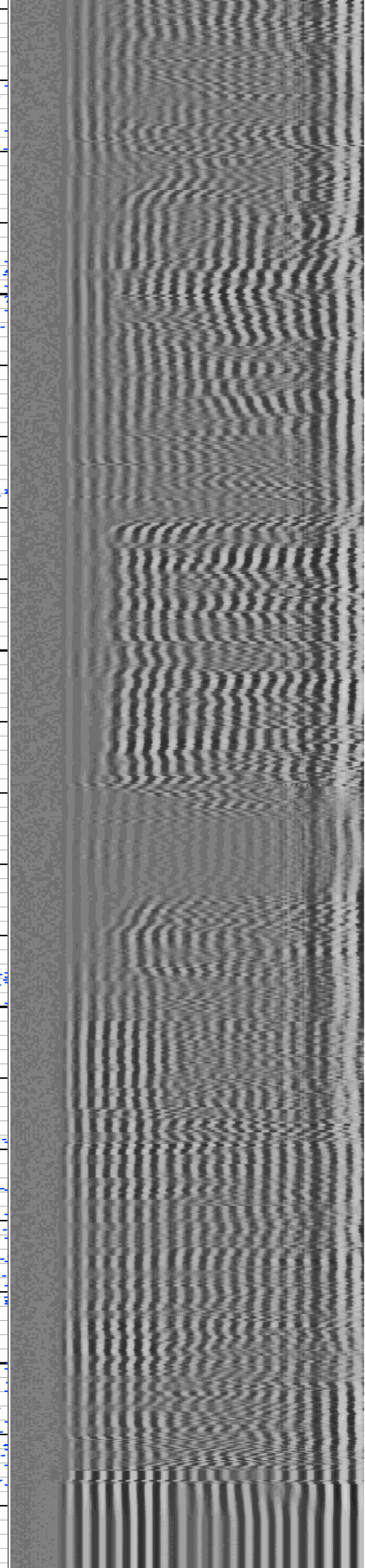
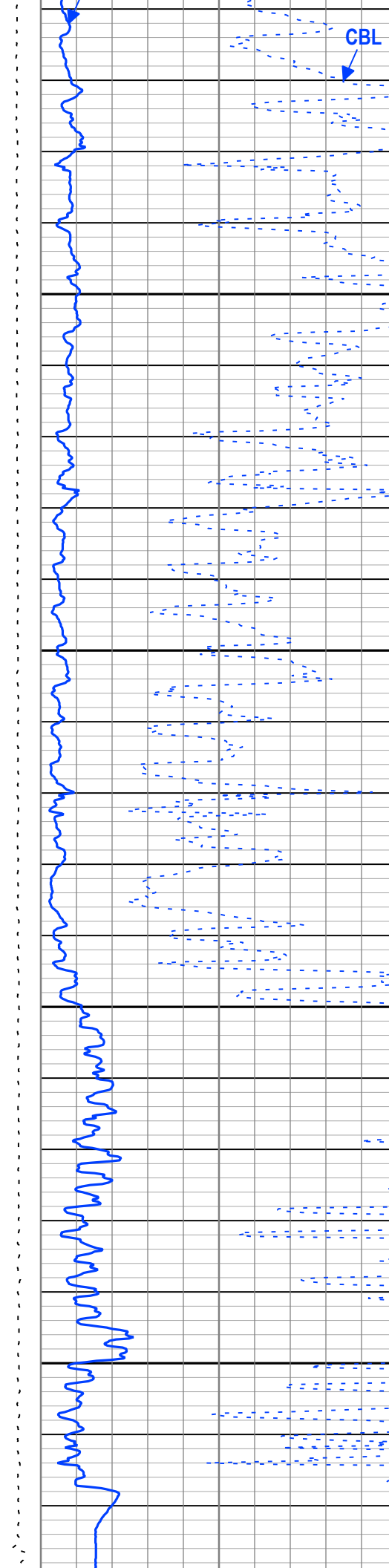


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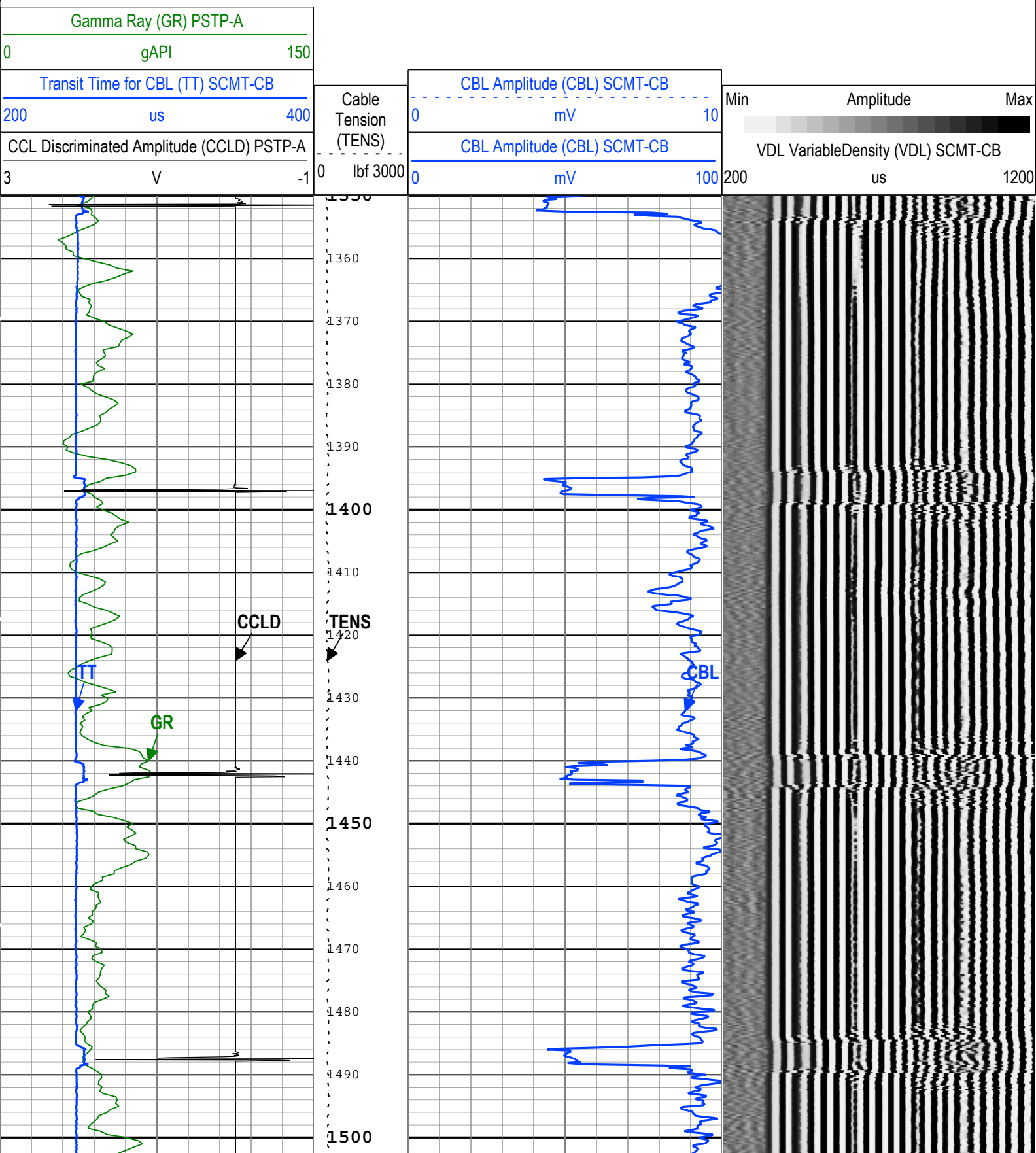
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[2]:Up	Up	1348.75 ft	1608.26 ft	22-Dec-2017 9:05:49 PM	22-Dec-2017 9:11:28 PM	ON	0.00 ft	No

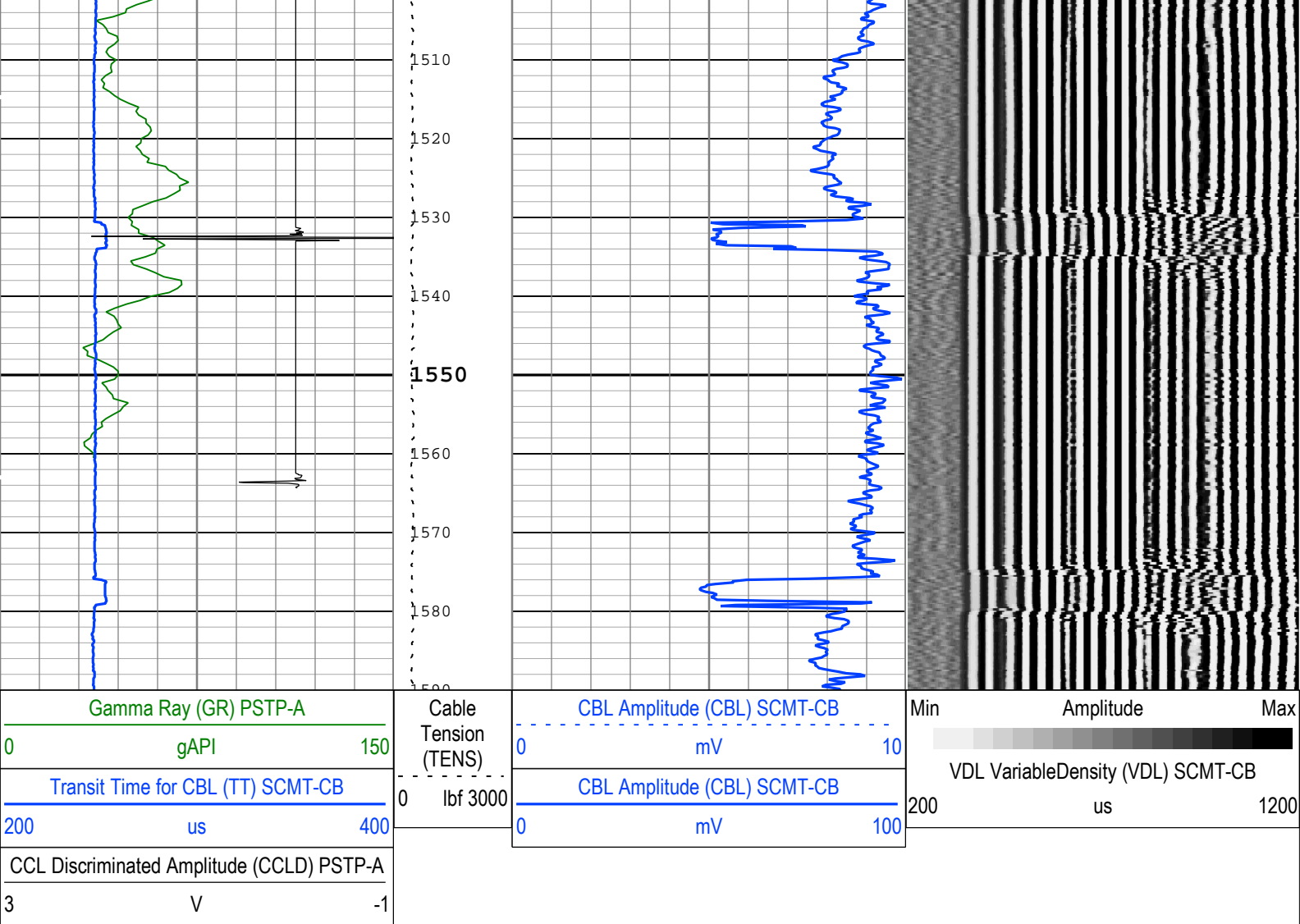
All depths are referenced to toolstring zero

Log	Company:Caerus Operating LLC	Well:Puckett 34A-23 697
		One: Log[2]:Up:S005

Description: SCMT Amplitudes and VDL    Format: Log ( SCMT\_Amp\_VDL )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth  
Creation Date: 07-Jan-2018 11:41:05

TIME\_1900 - Time Marked every 60.00 (s)



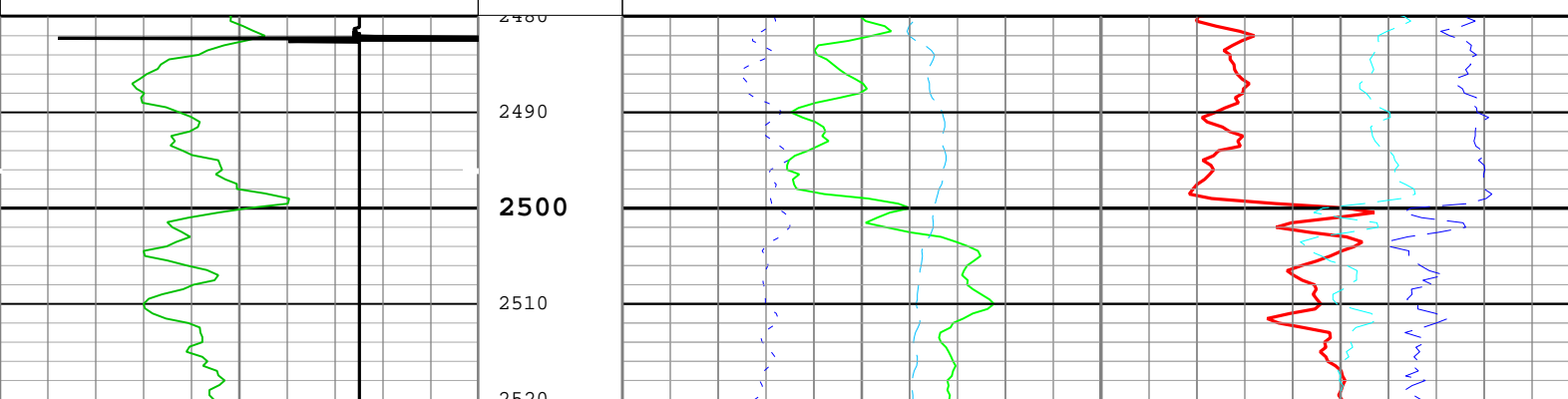


TIME\_1900 - Time Marked every 60.00 (s)

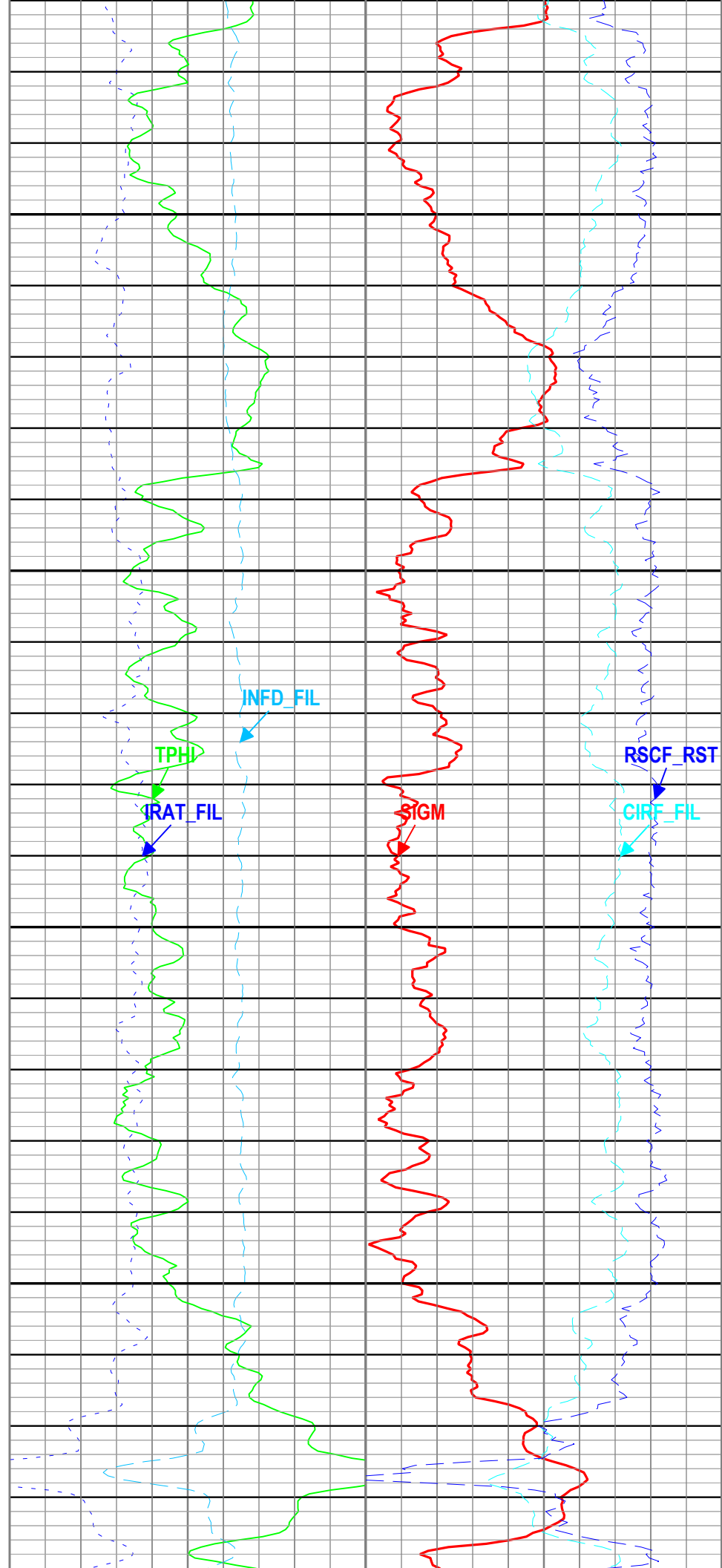
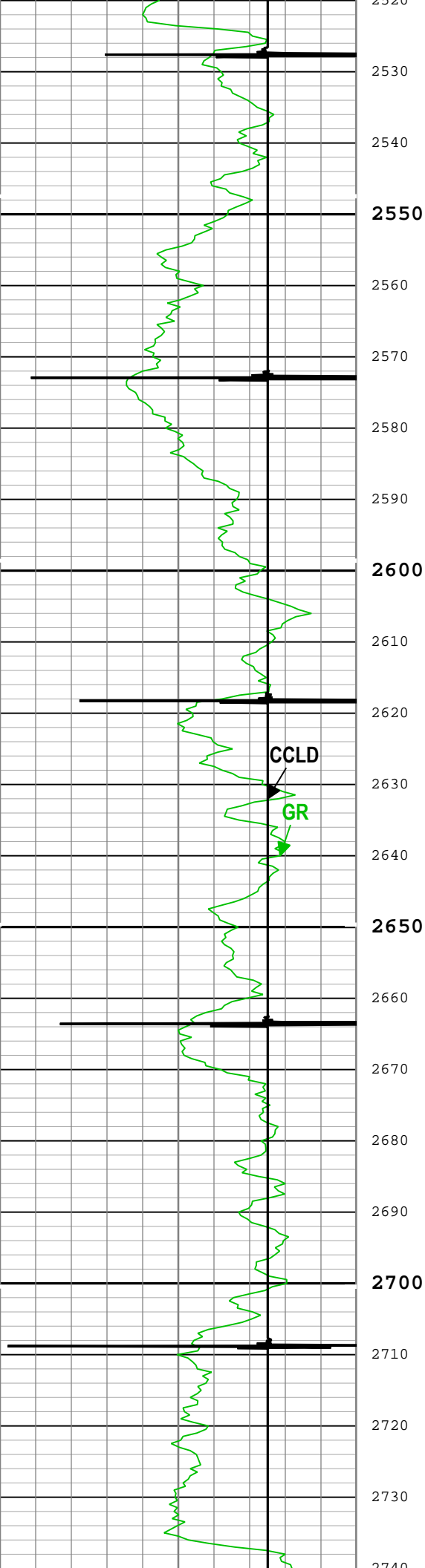
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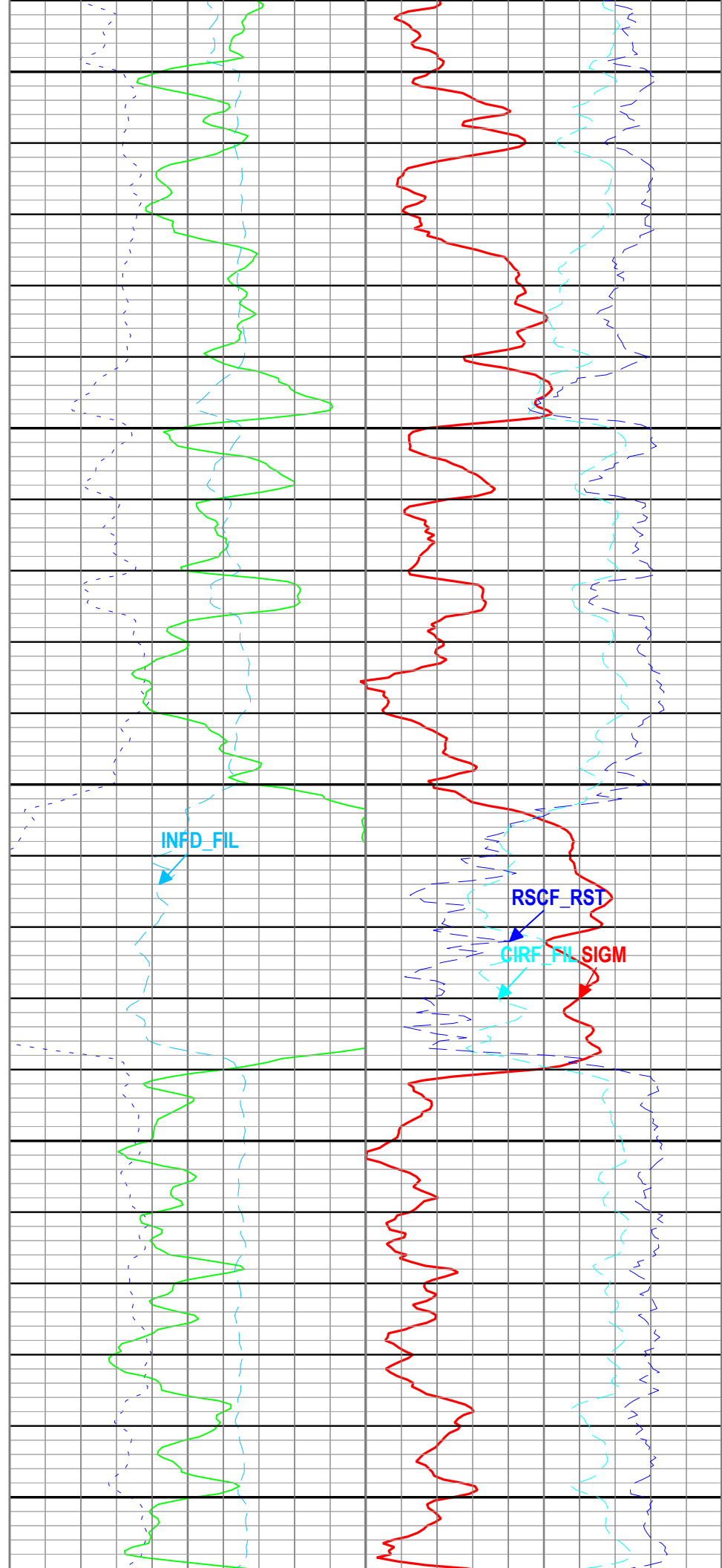
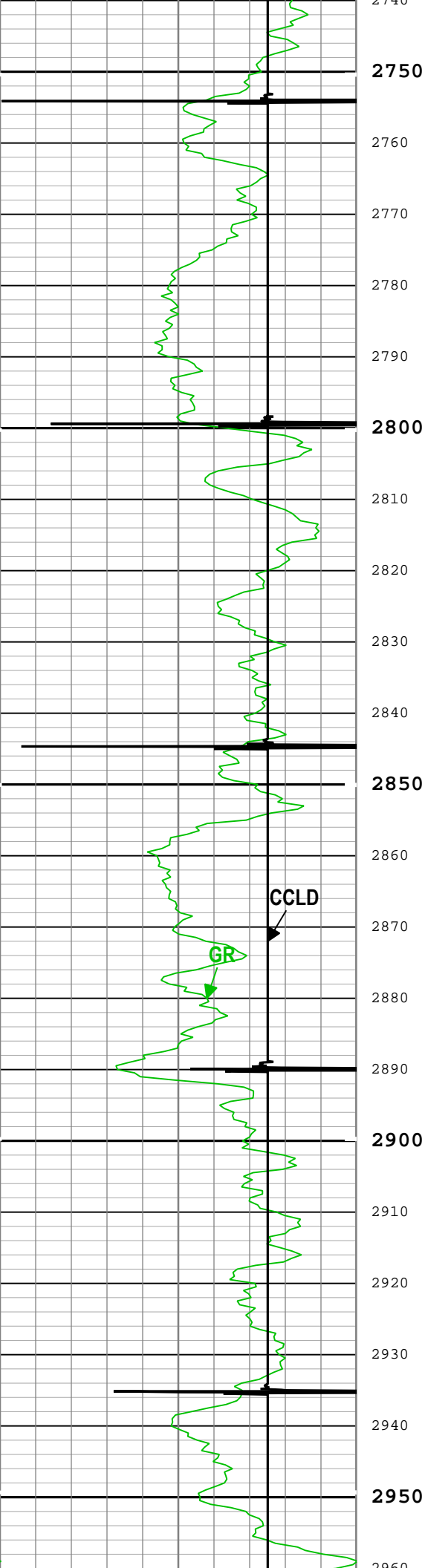
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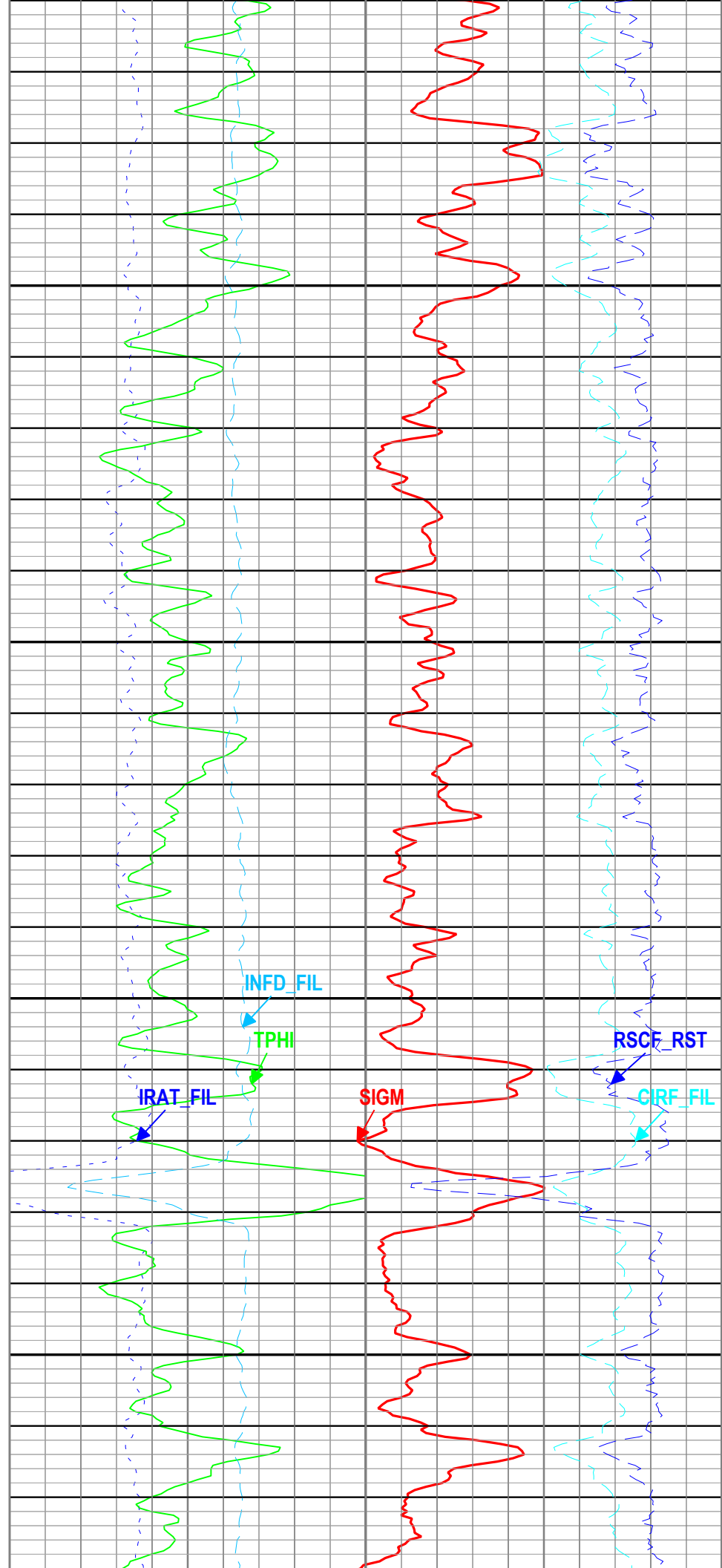
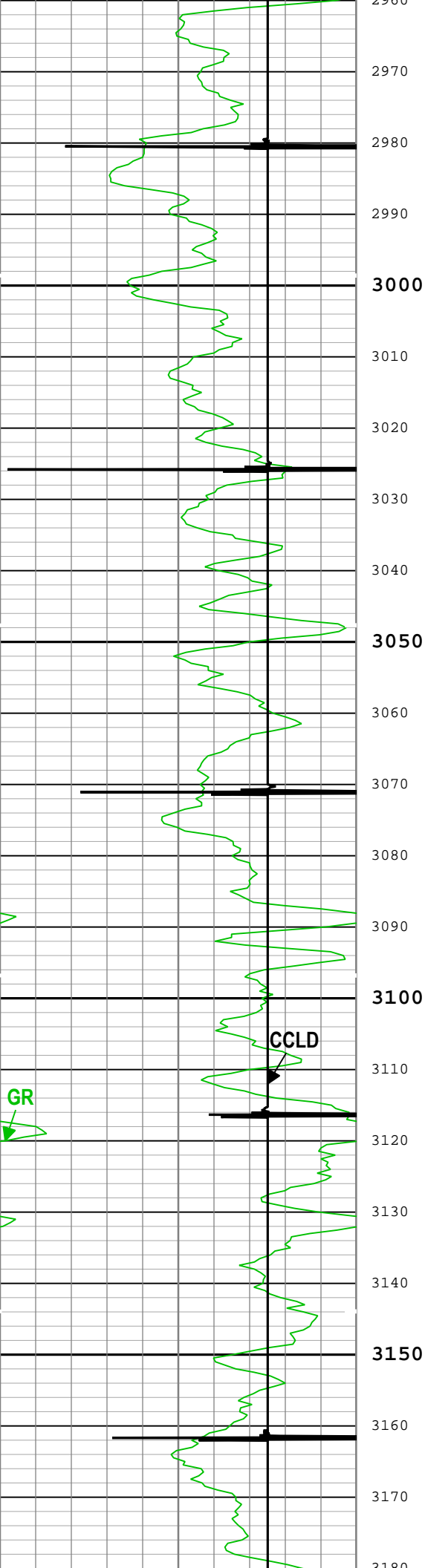
Channel Processing Parameters				
One: Parameters				
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
DFD	Drilling Fluid Density	Borehole	8.6	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	8432	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	

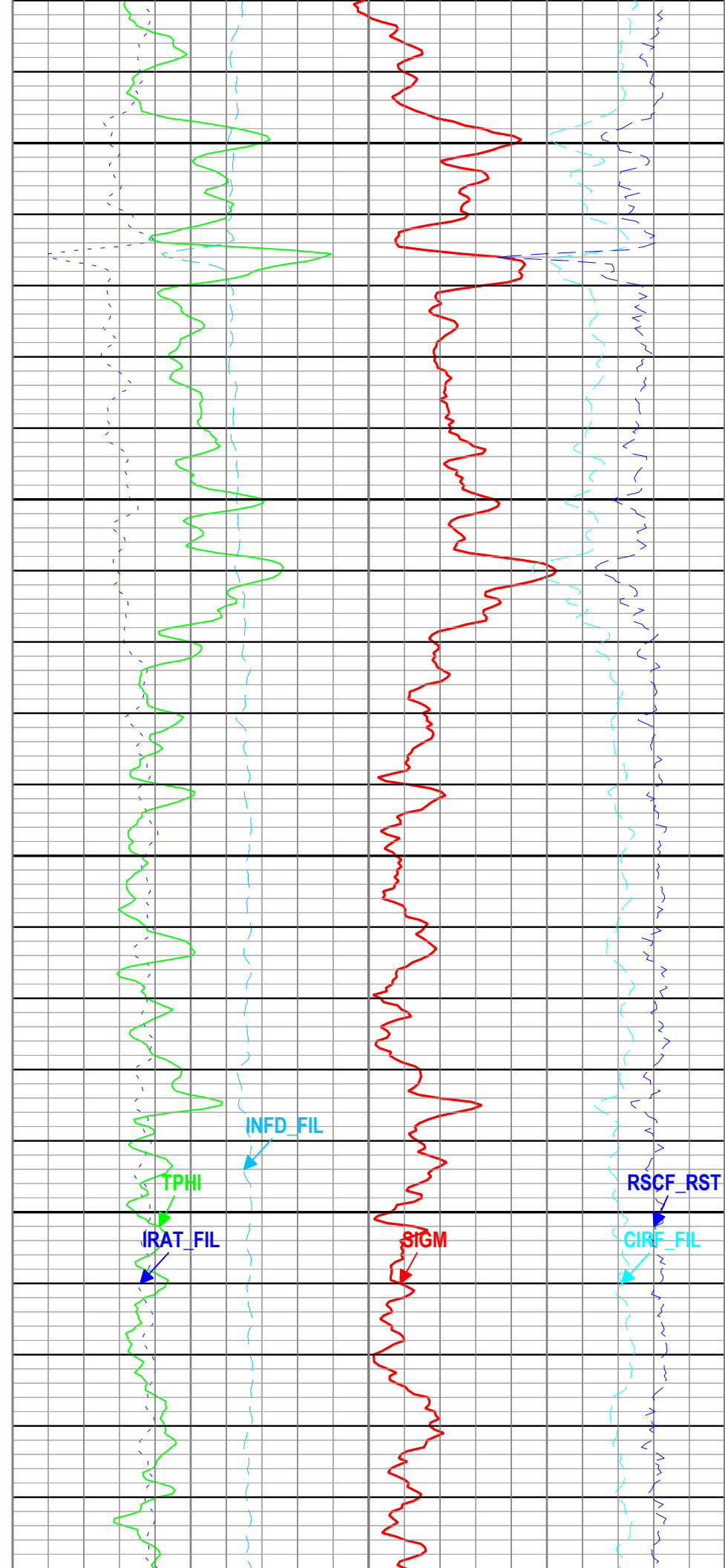
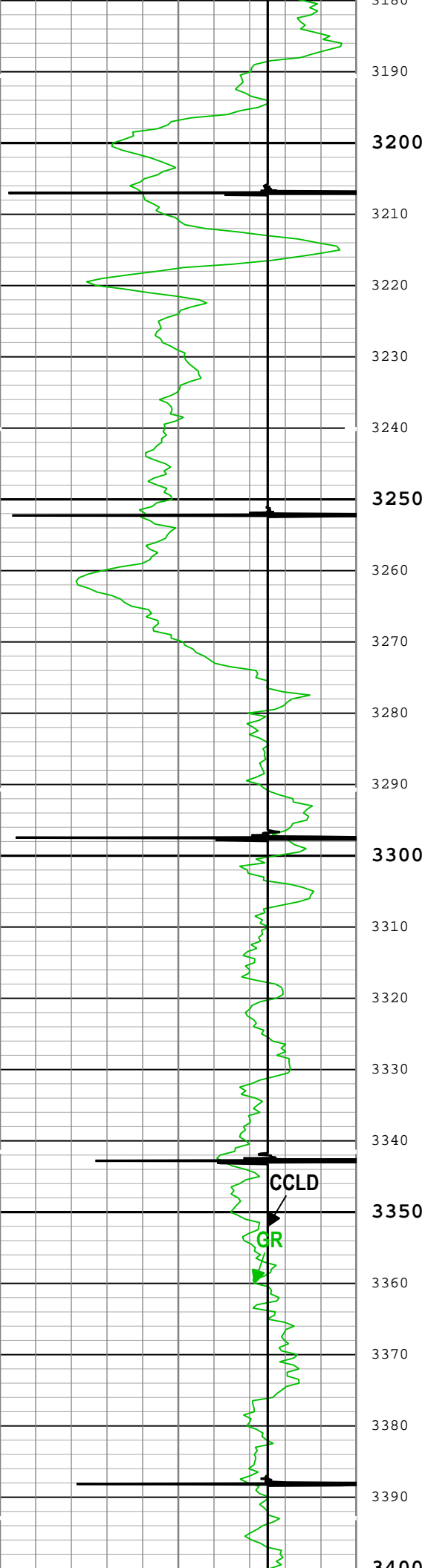




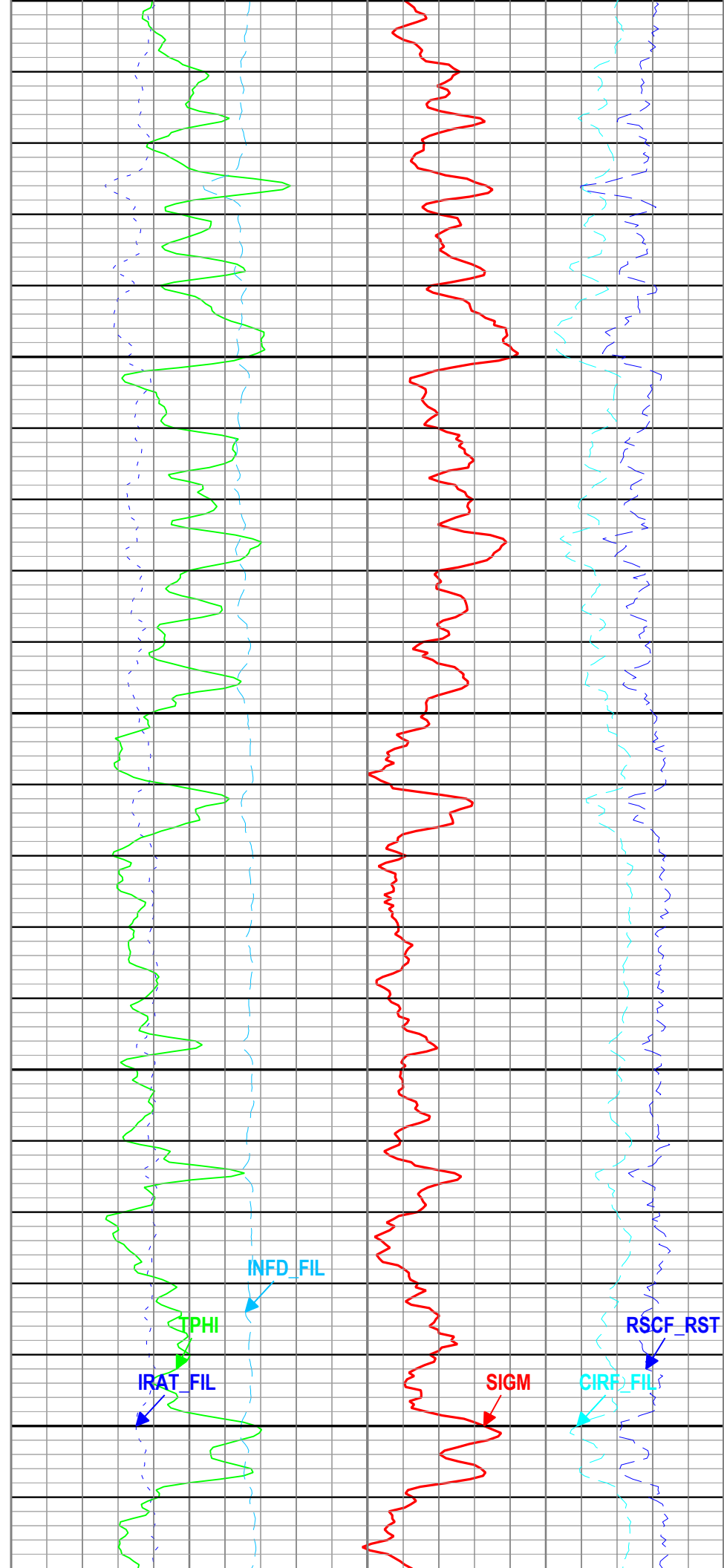
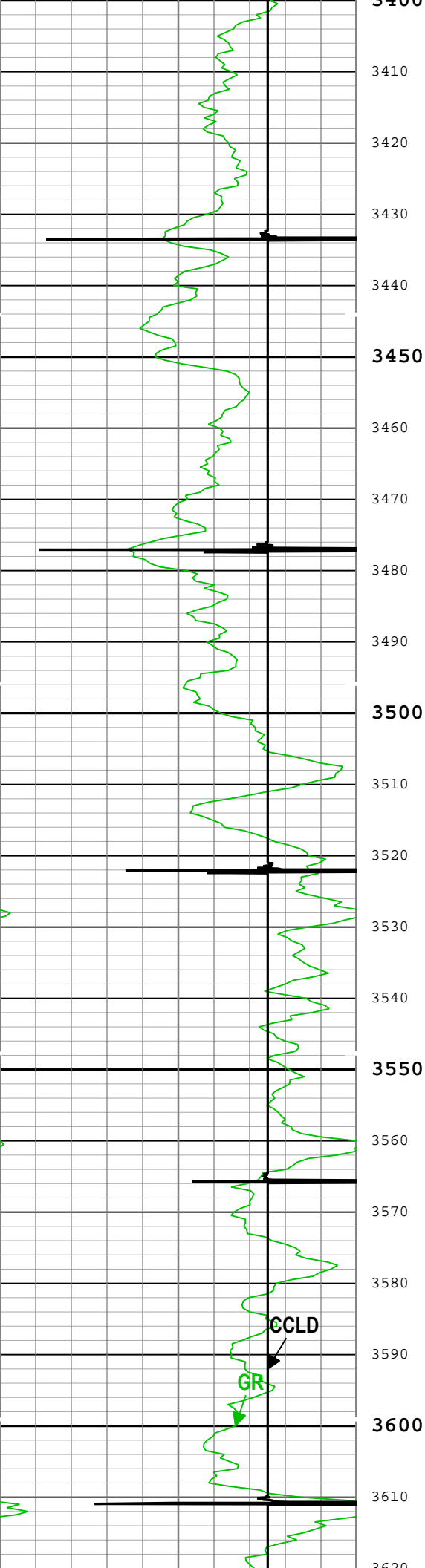


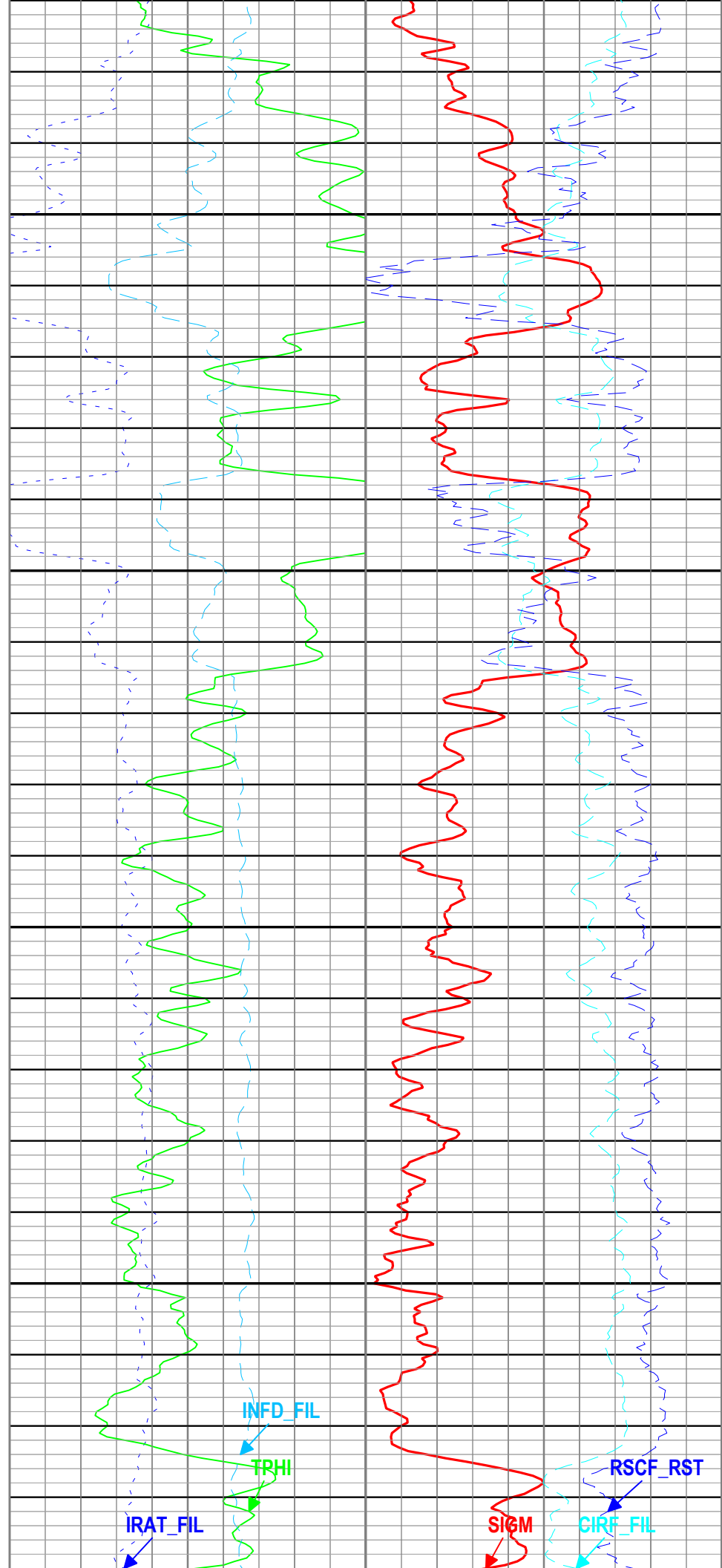
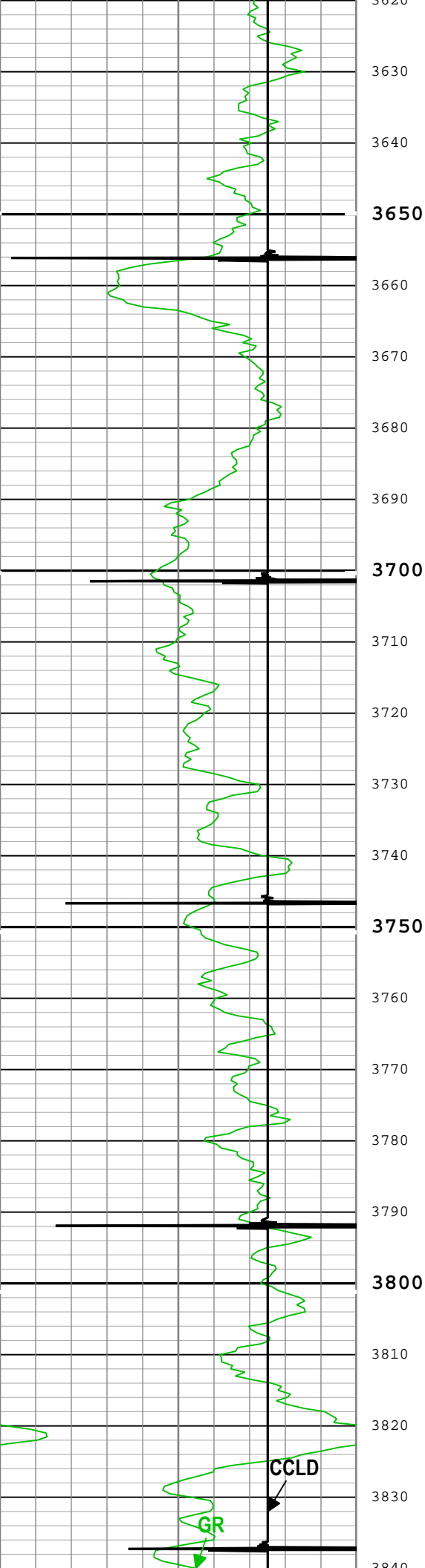


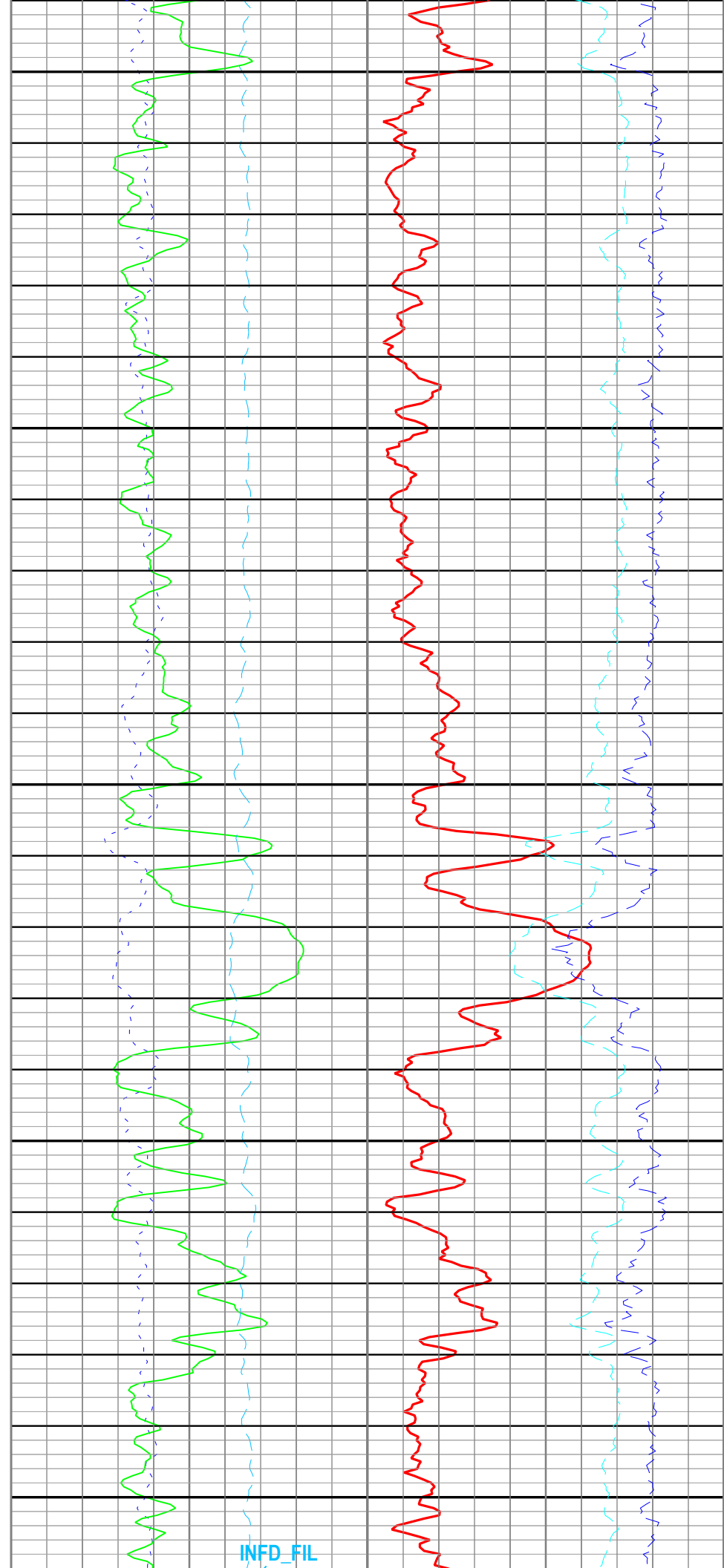
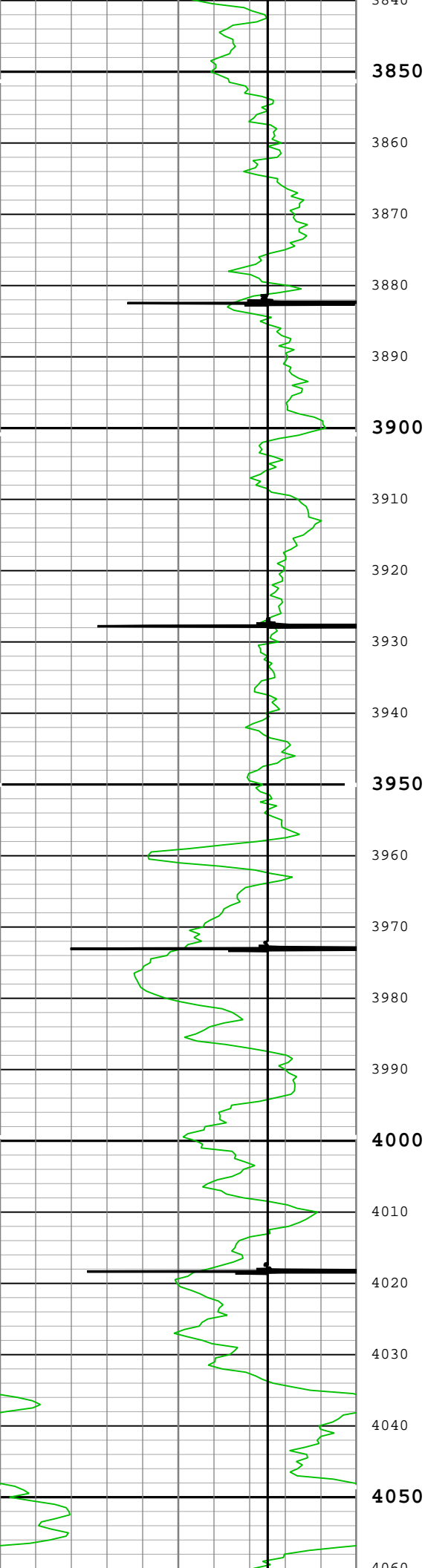


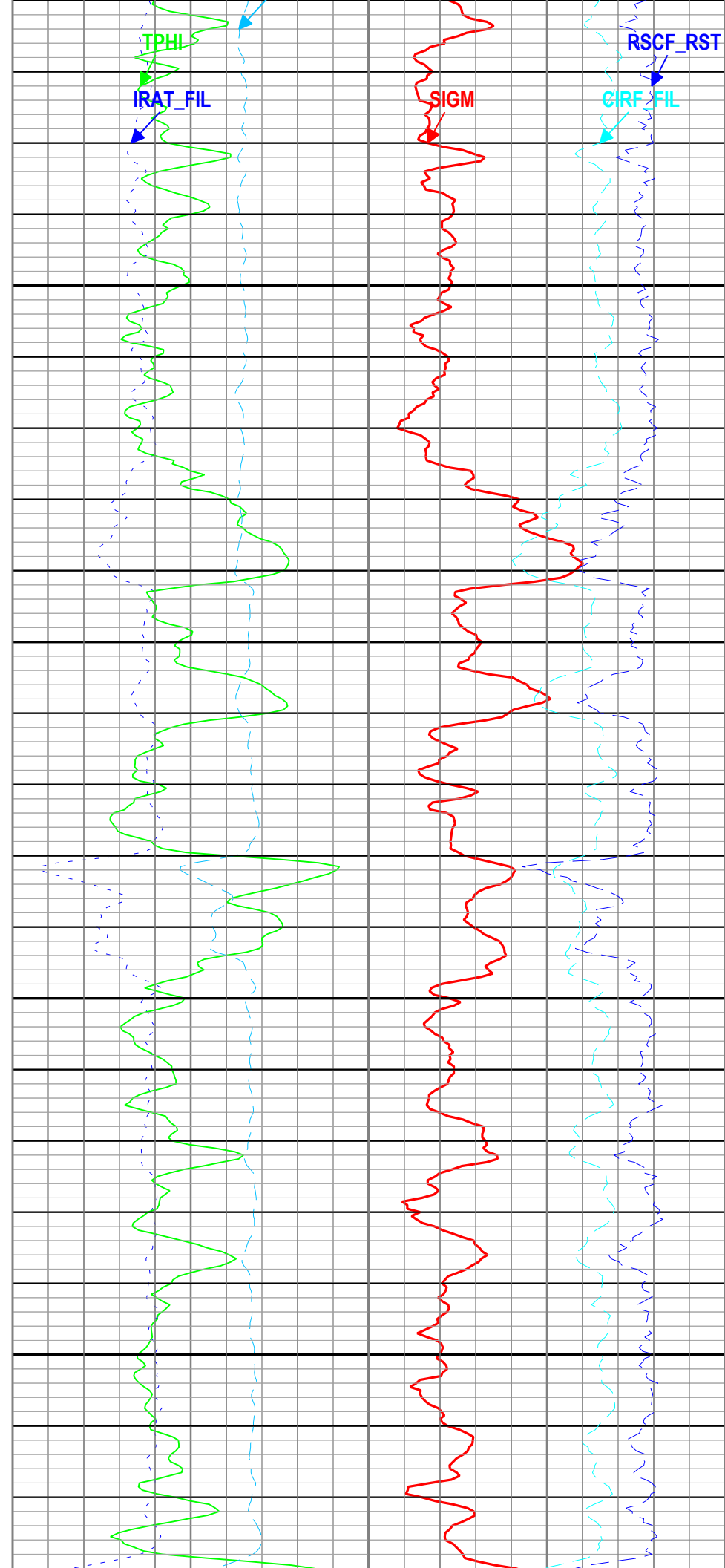
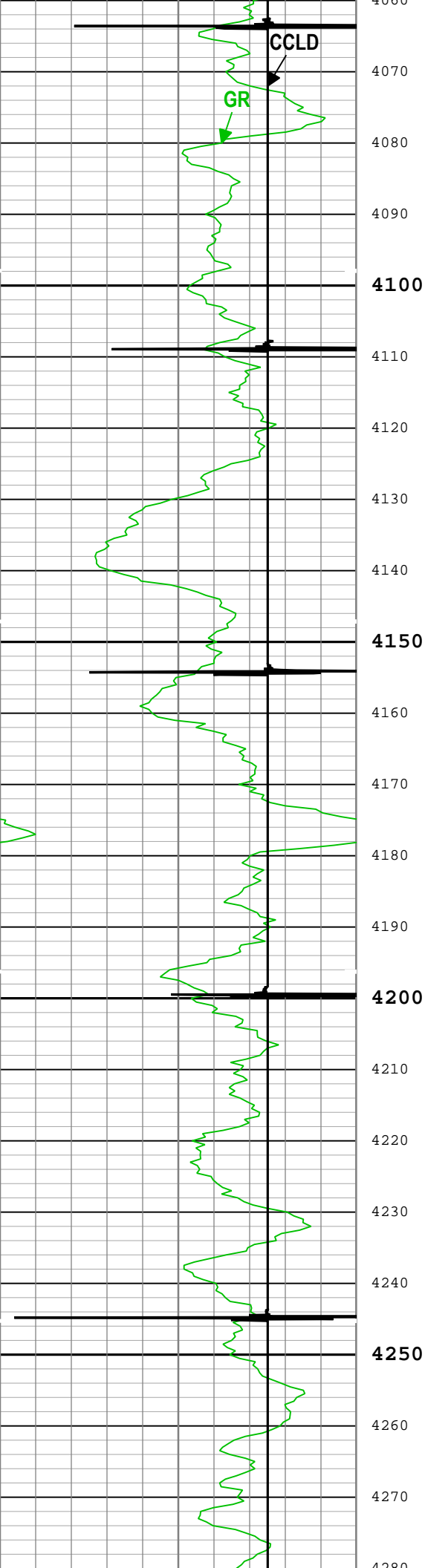




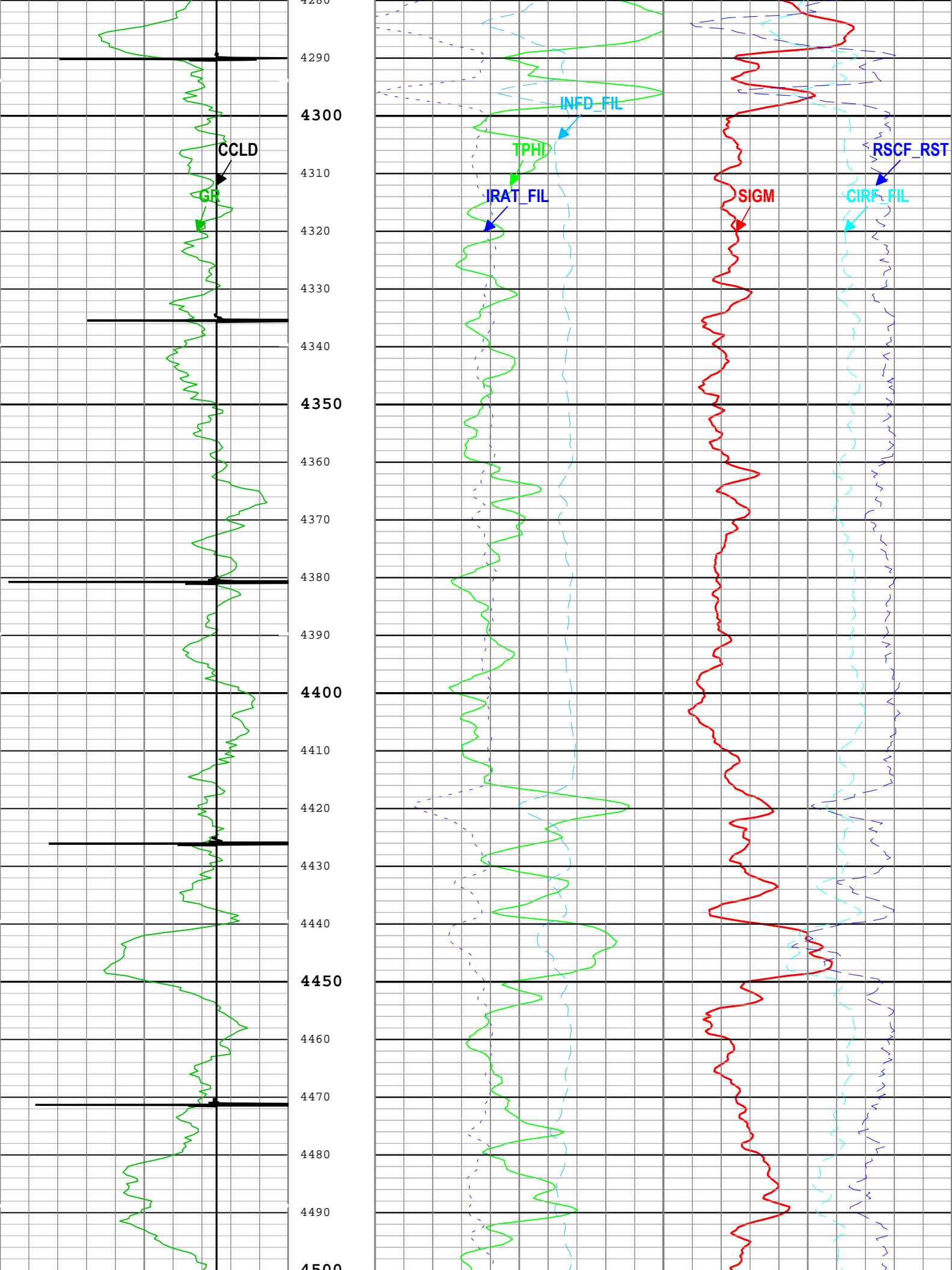


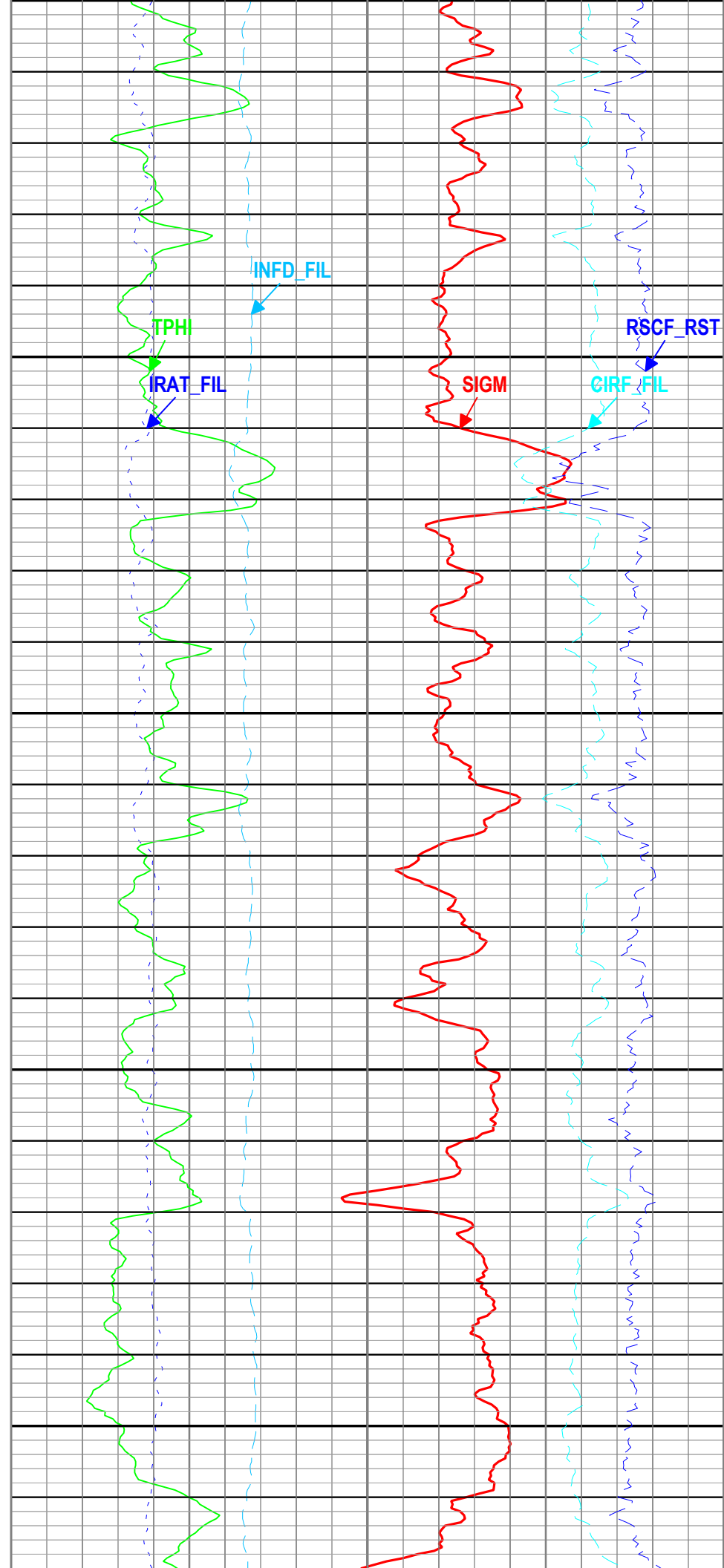
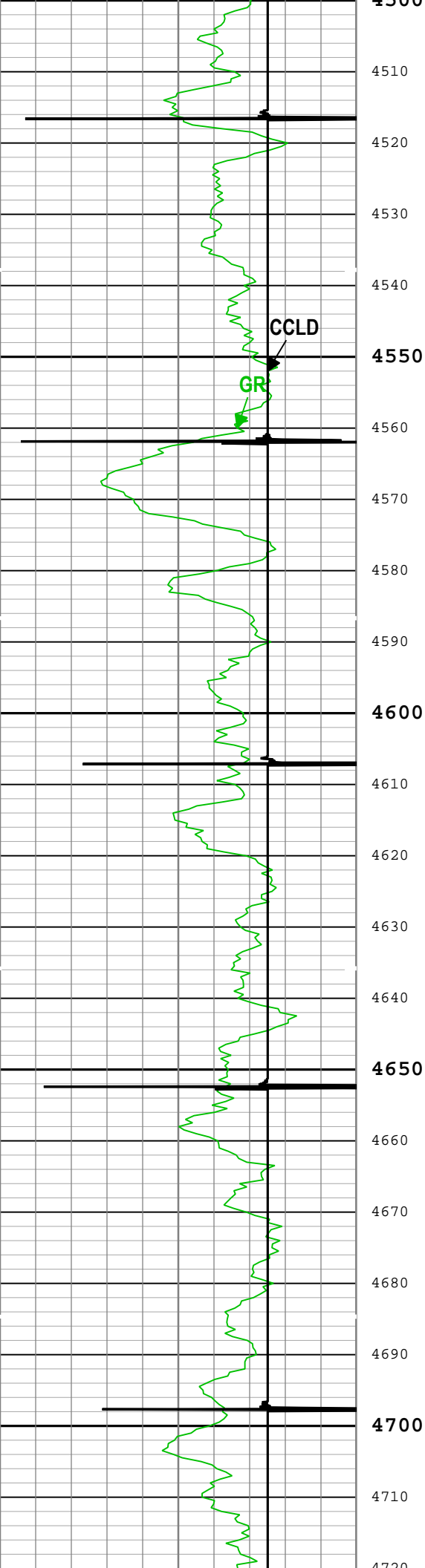


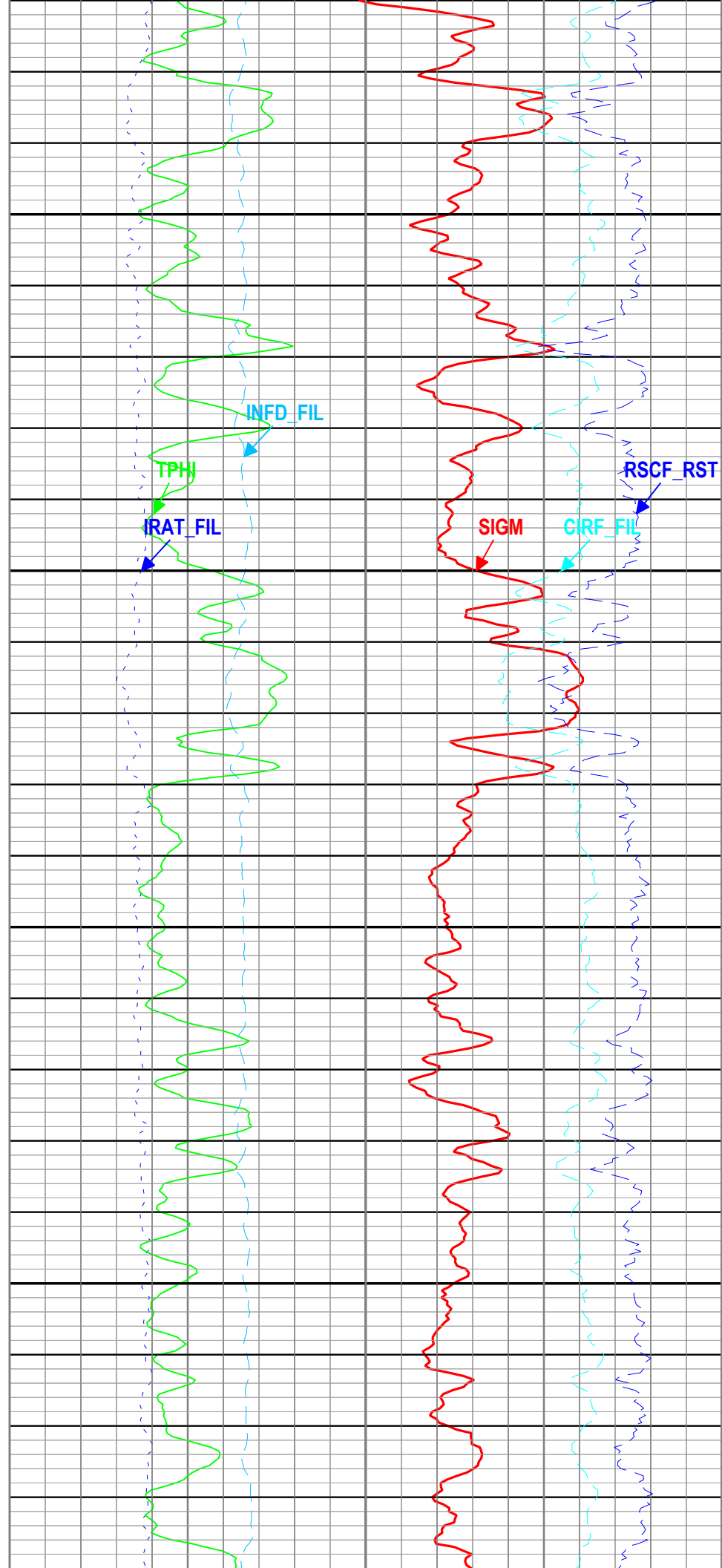
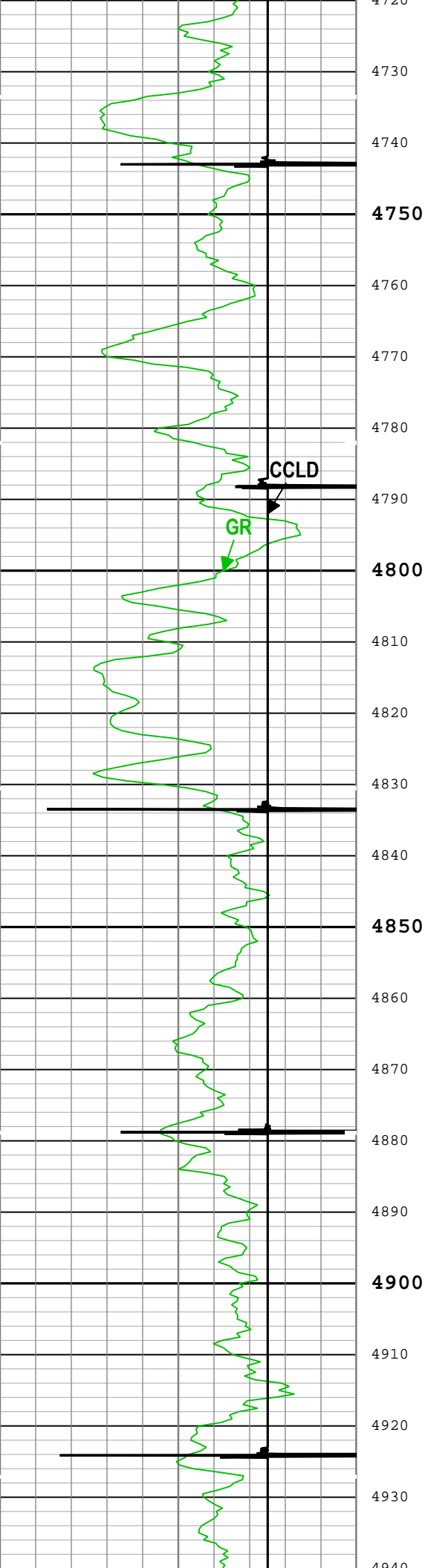


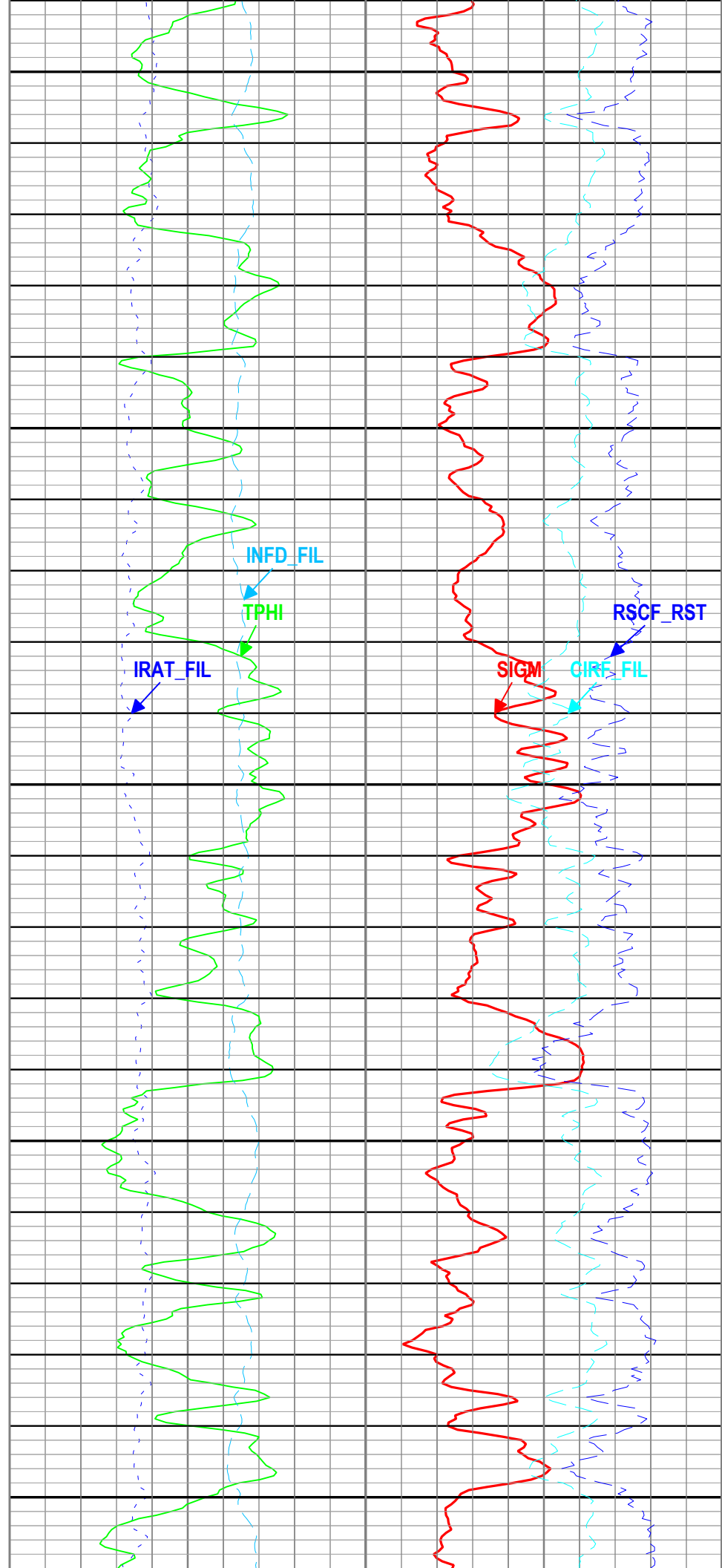
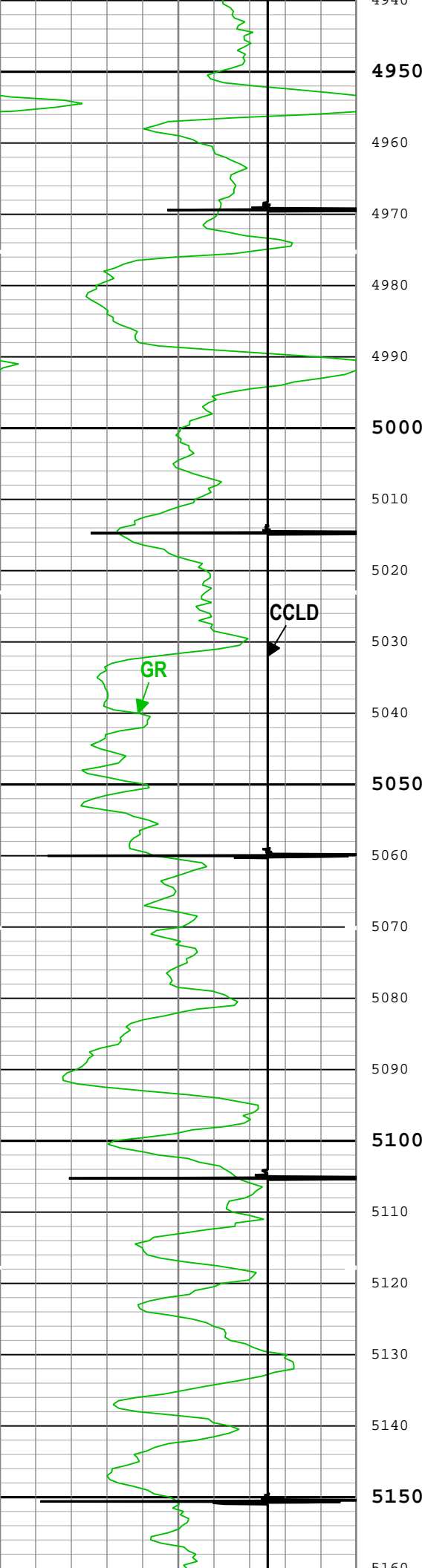




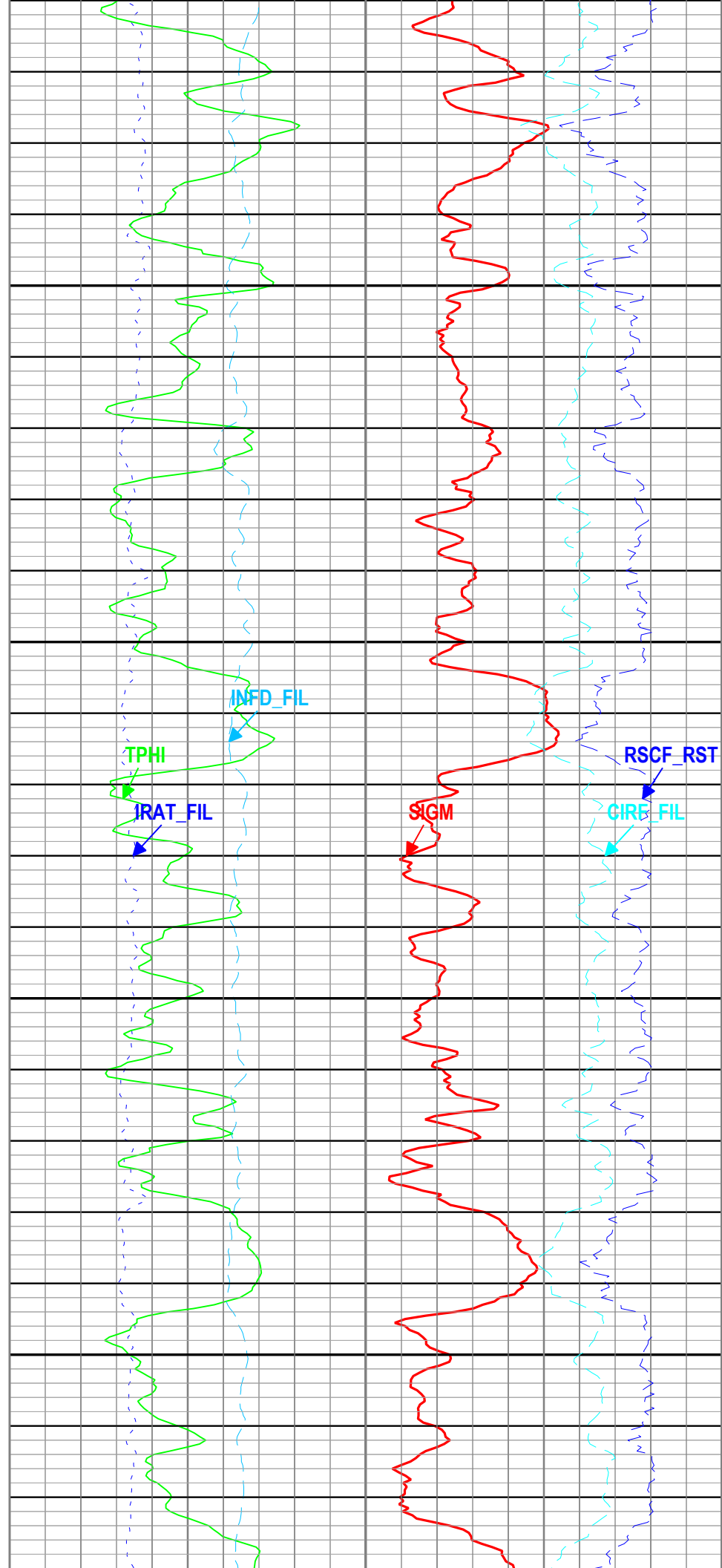
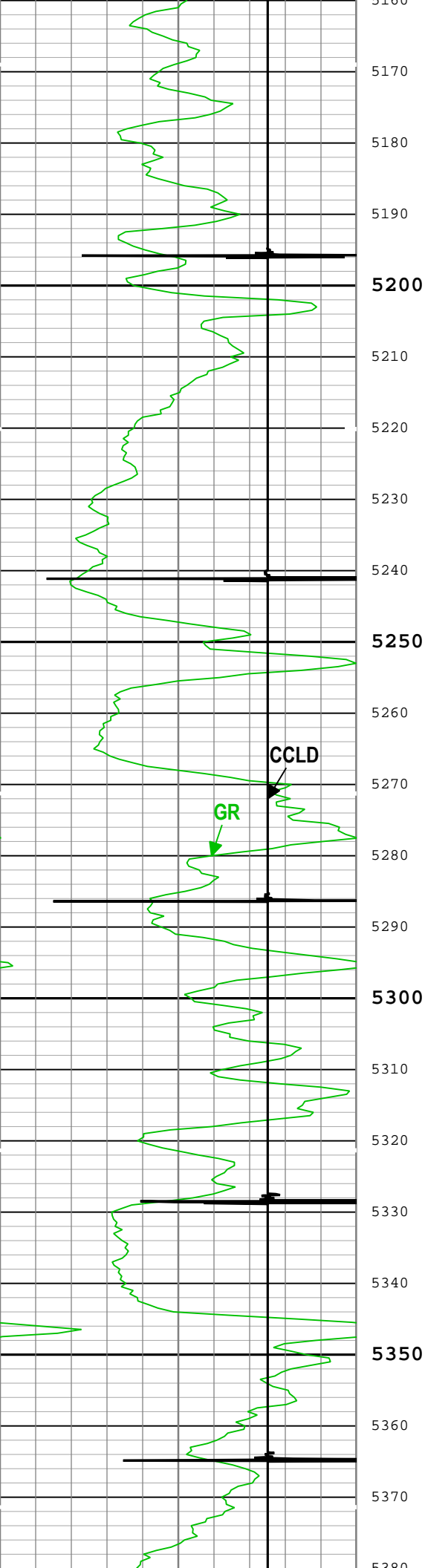


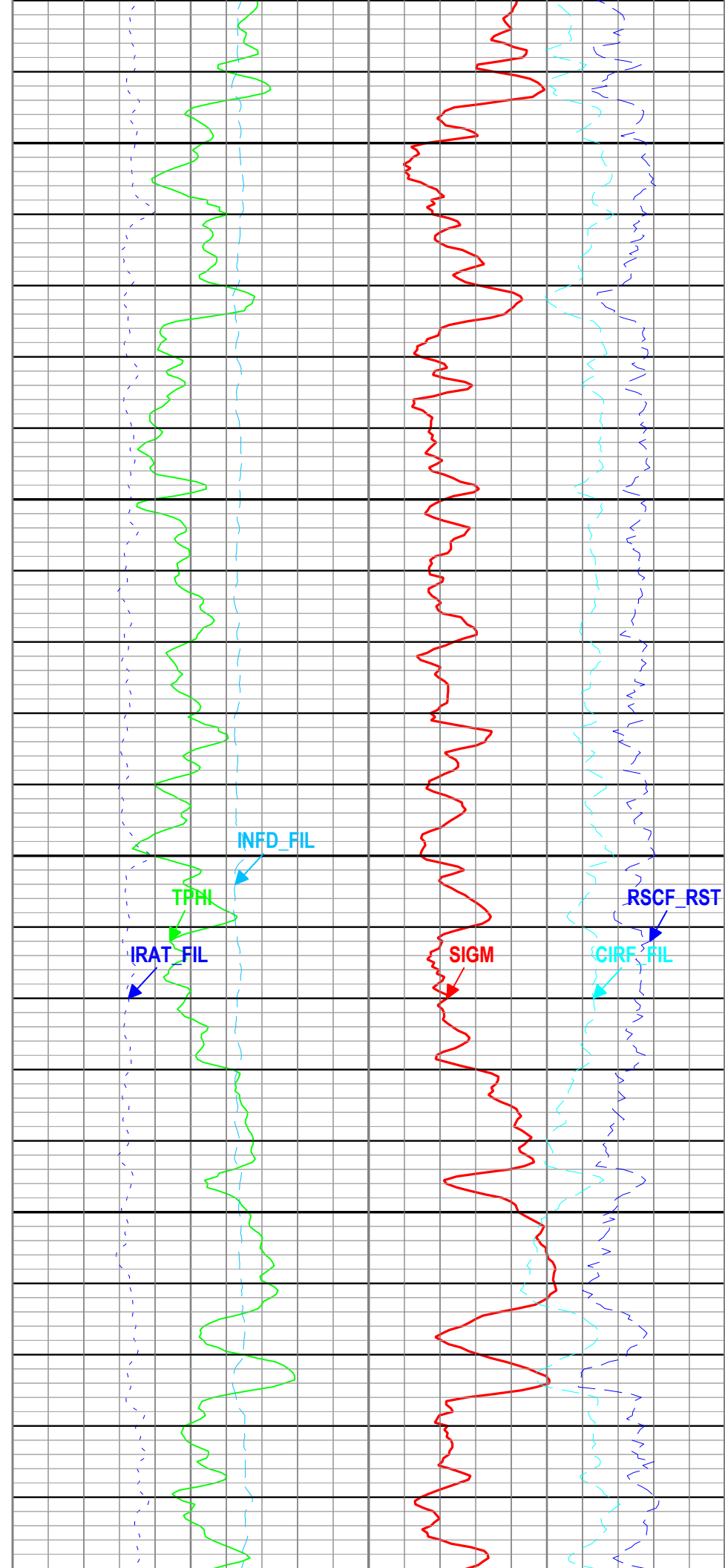
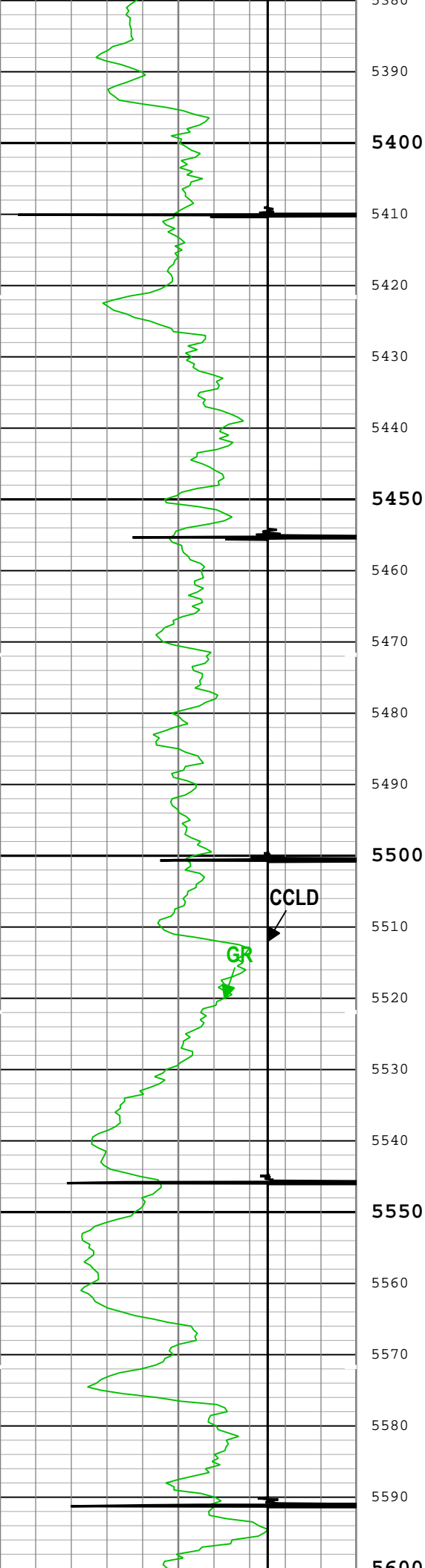


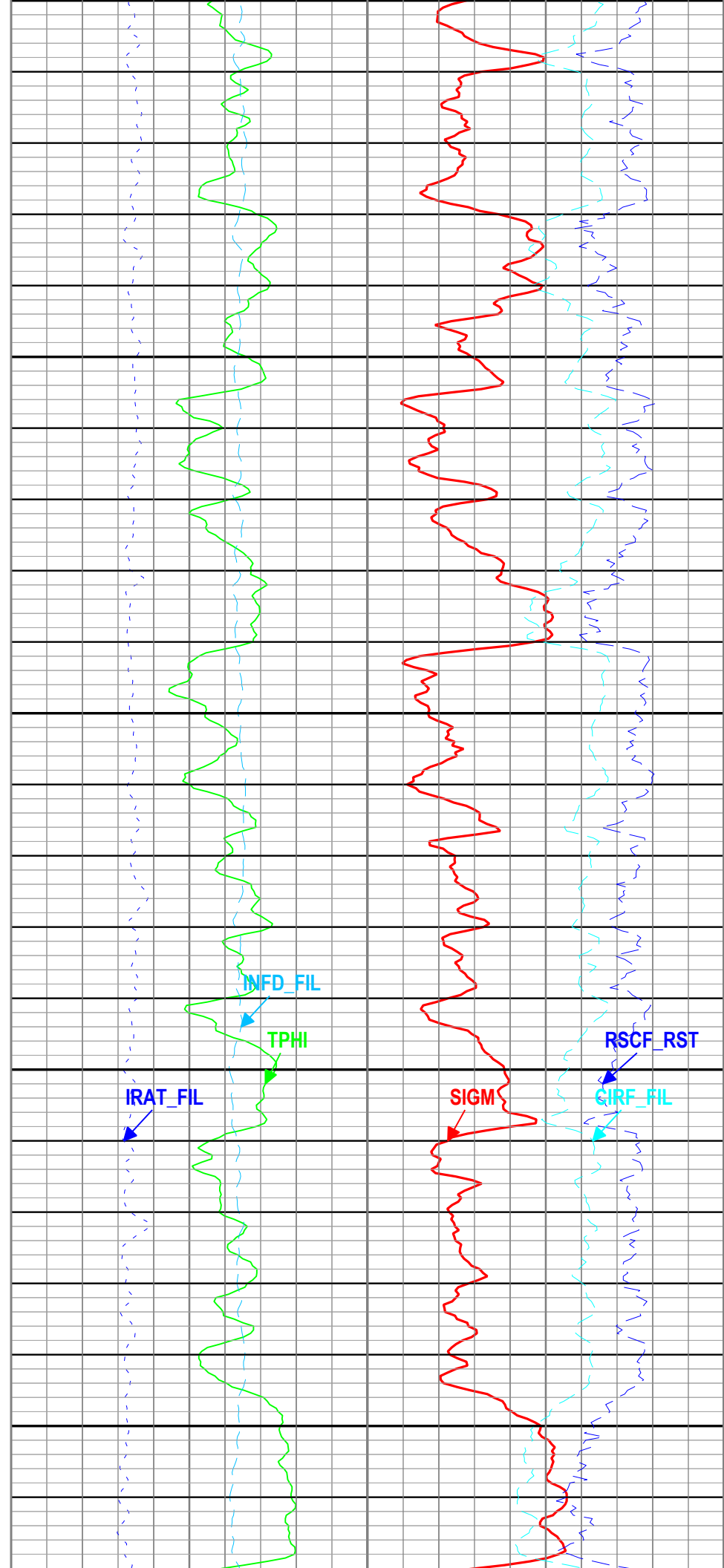
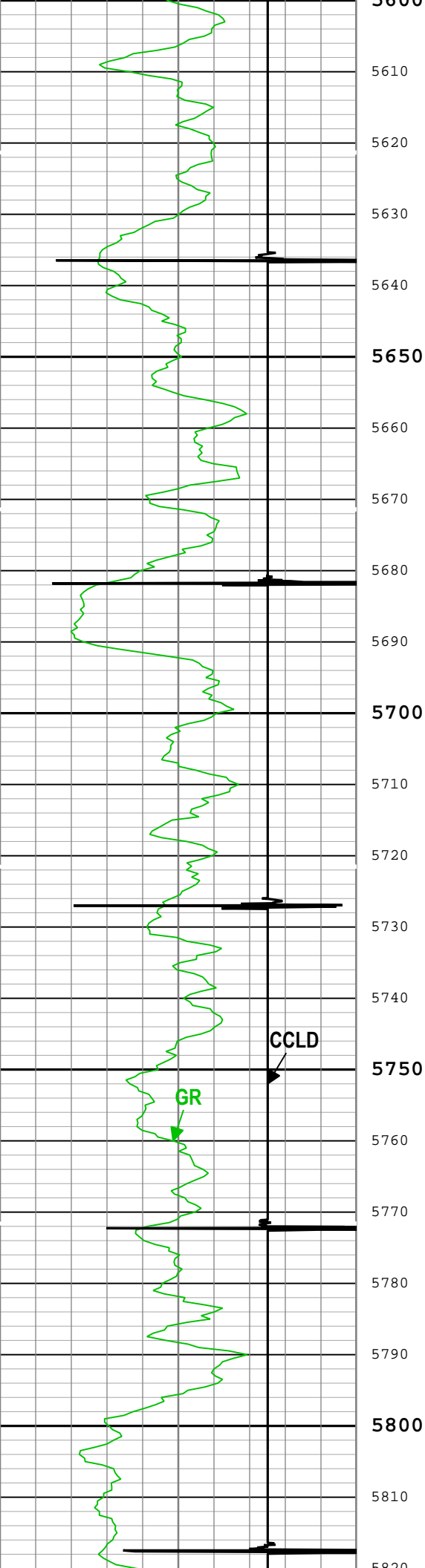


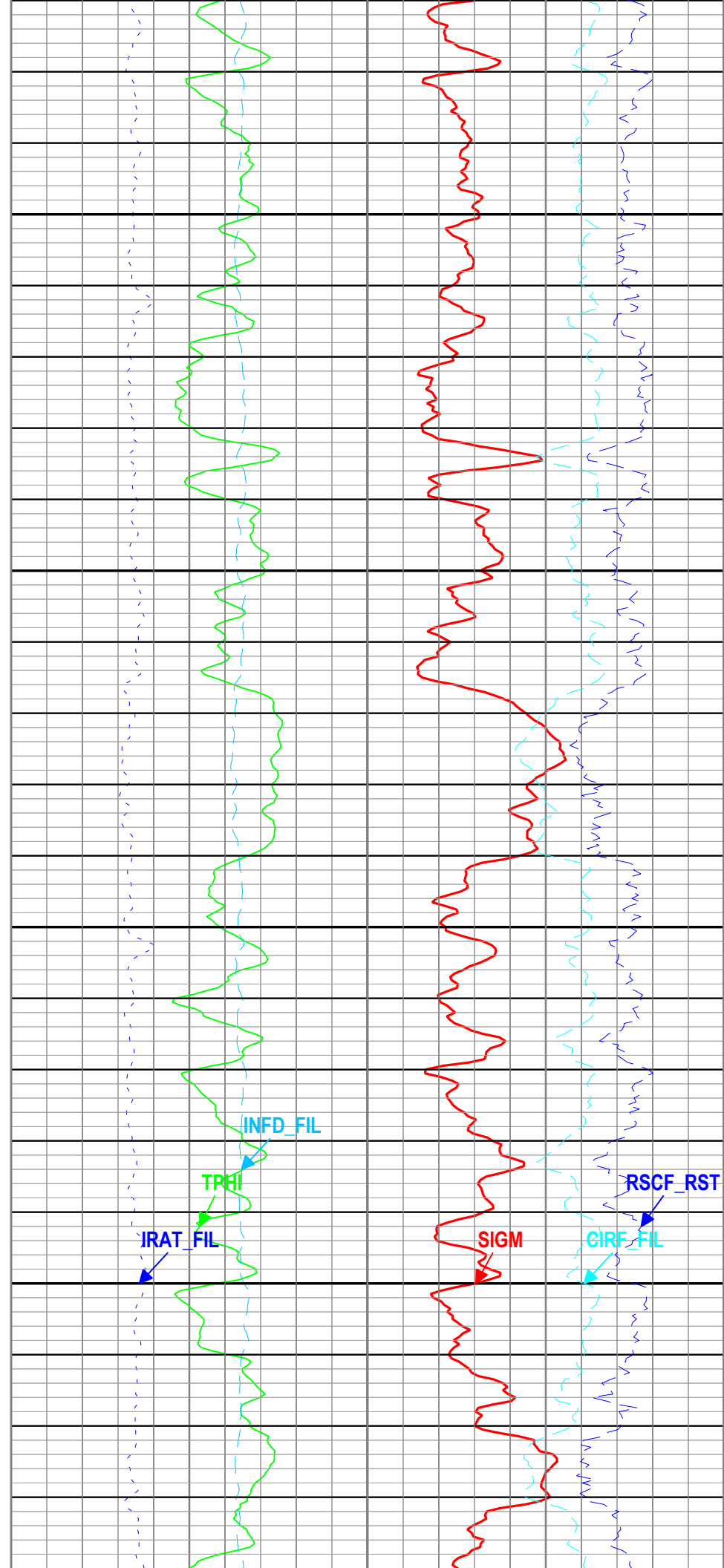
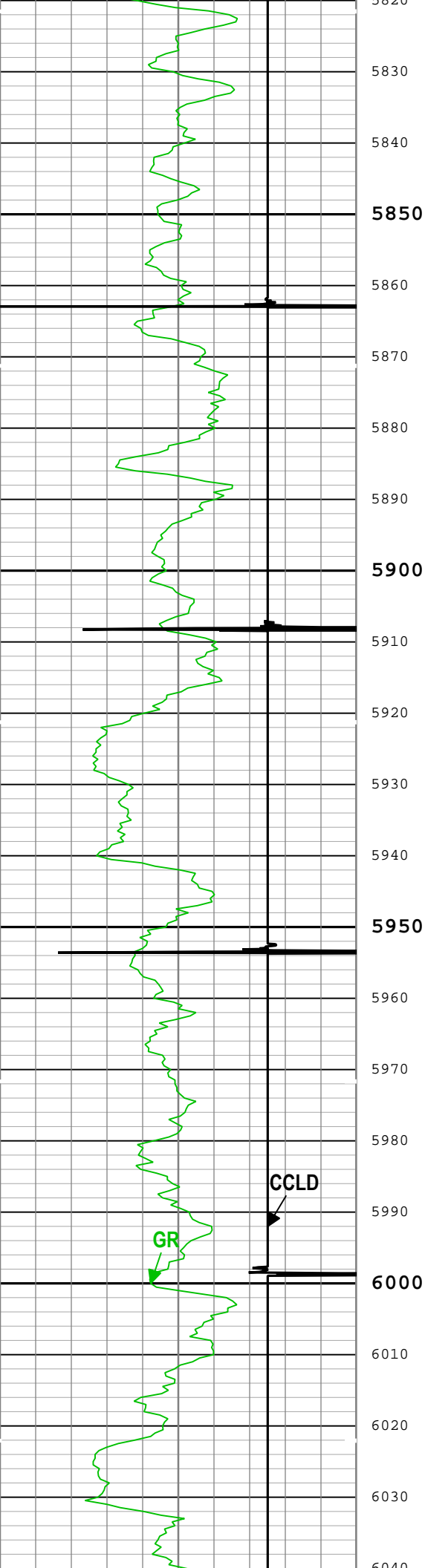




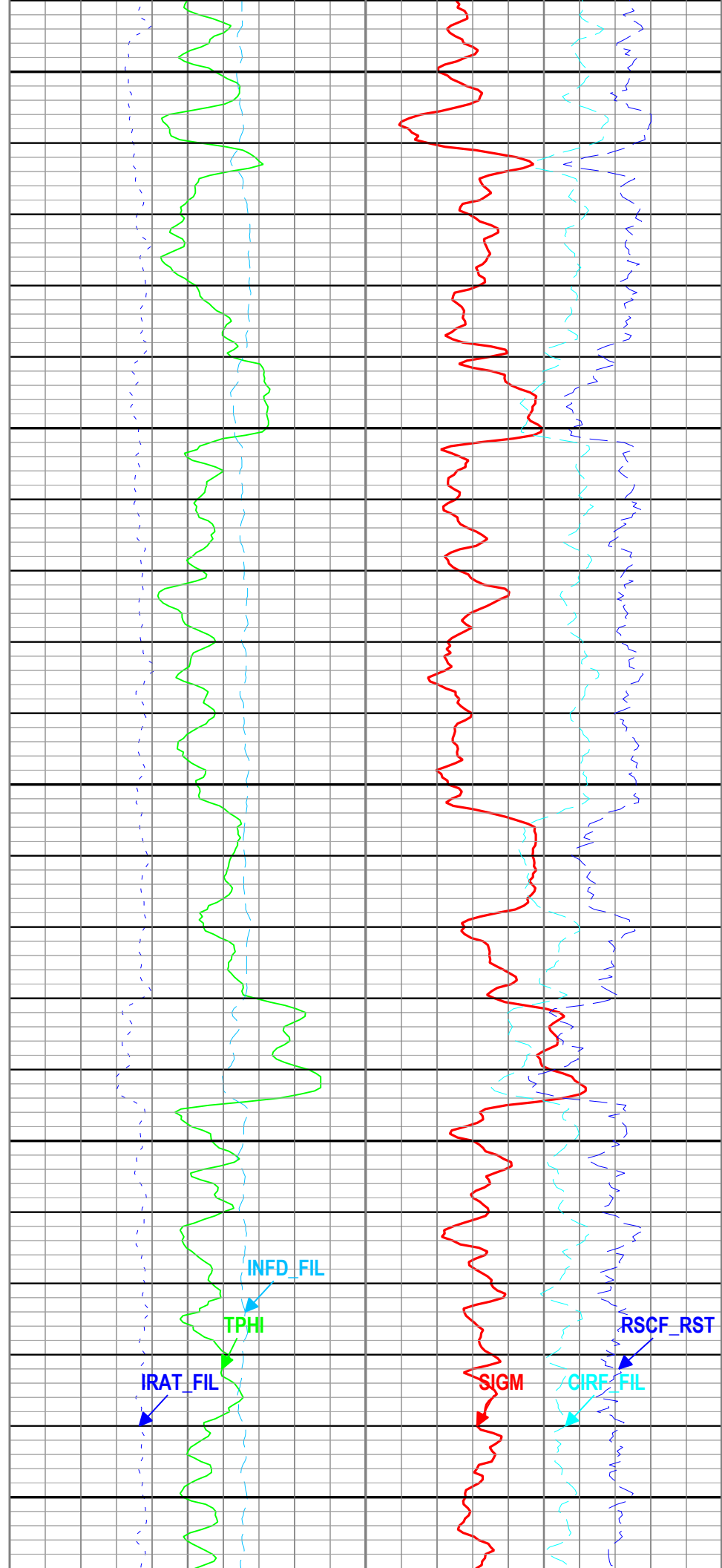
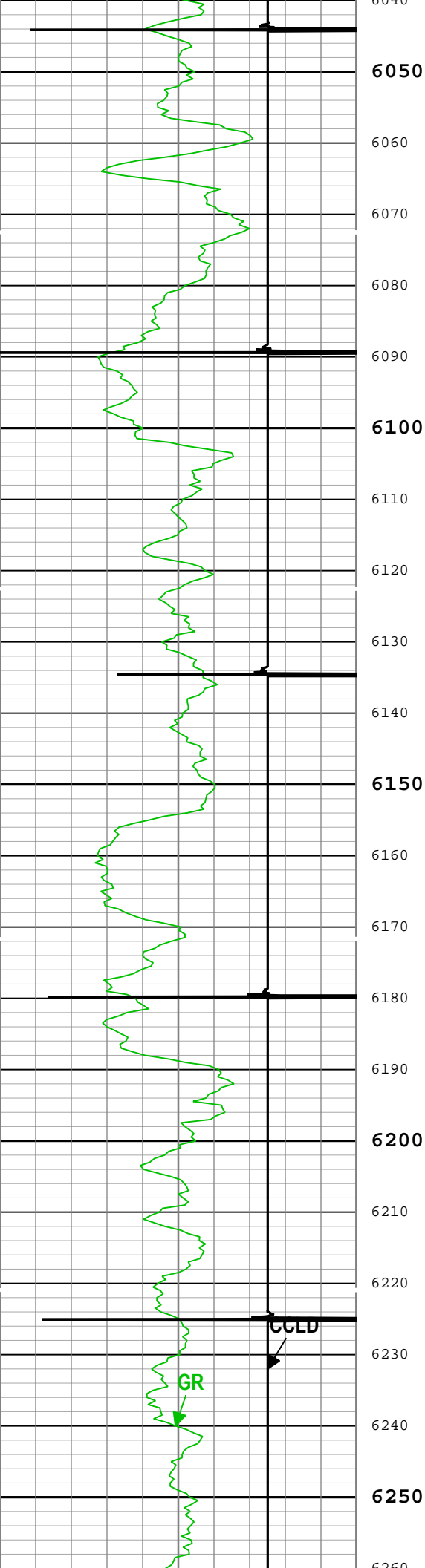


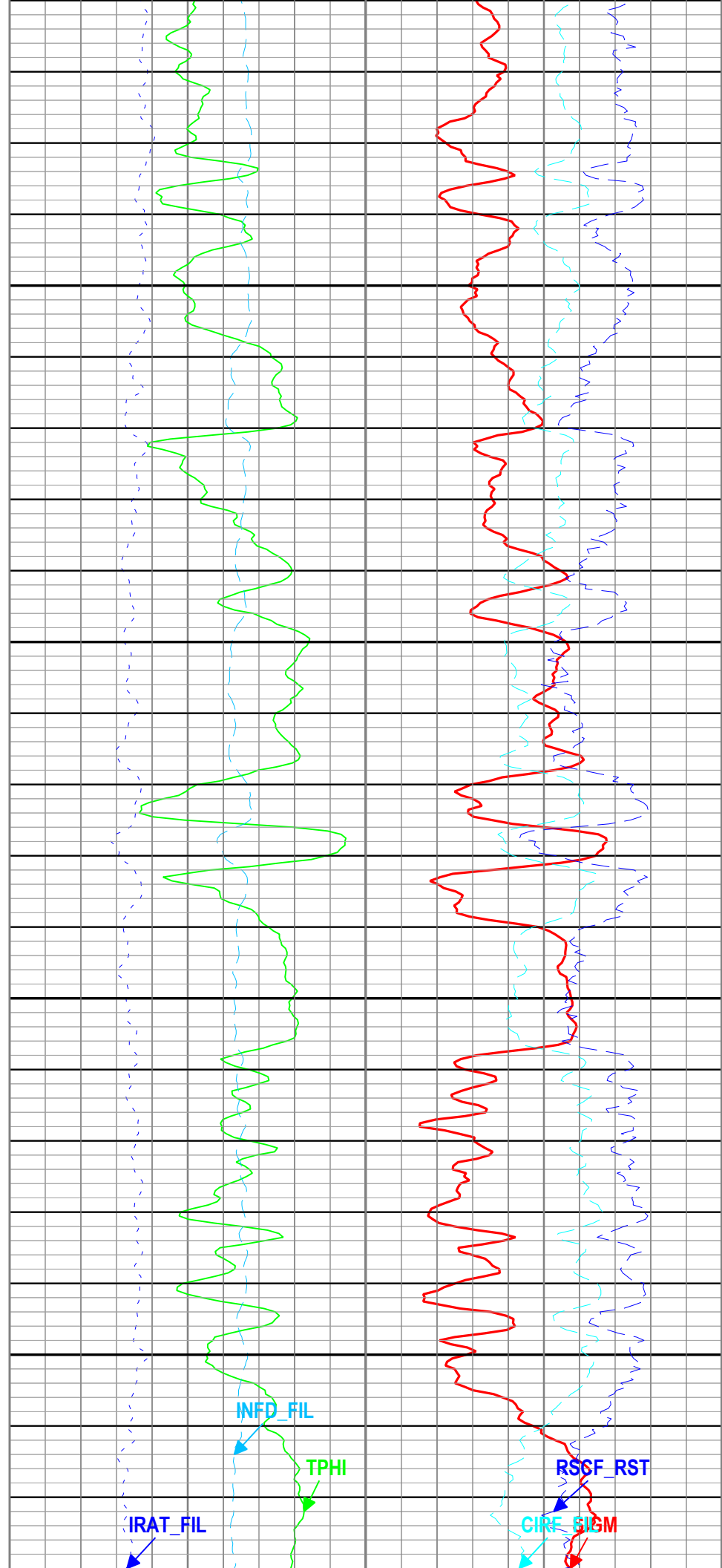
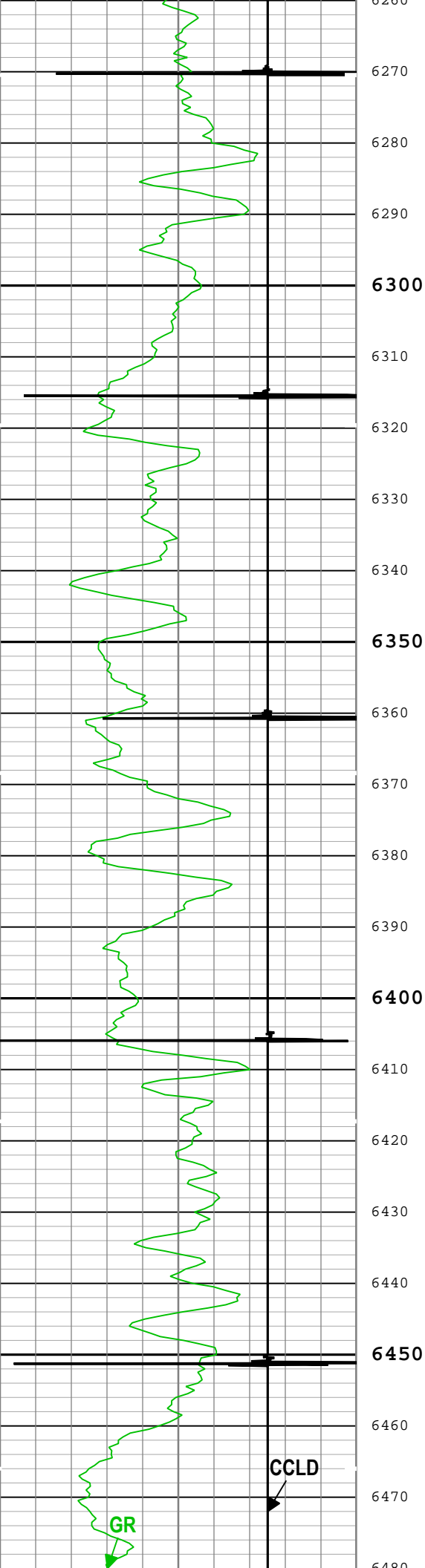


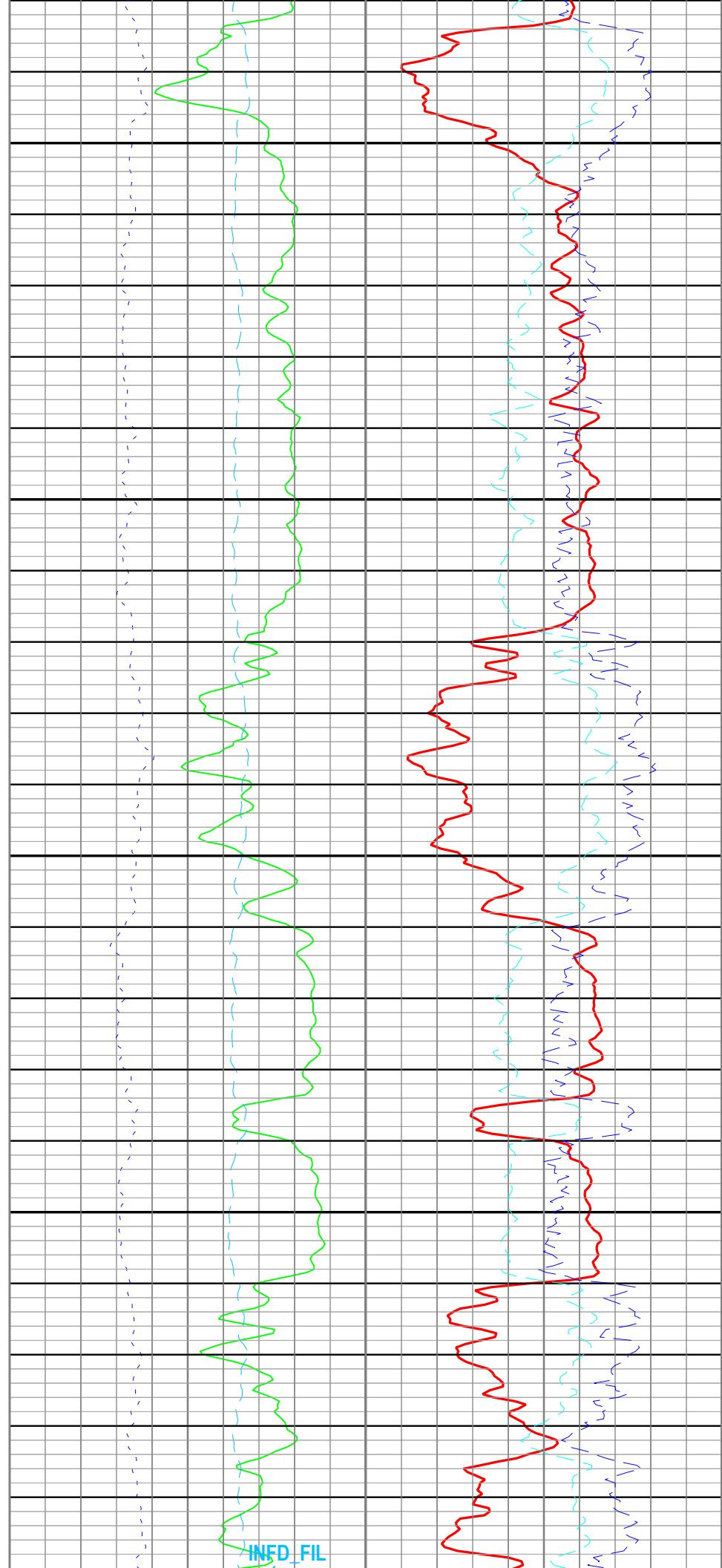
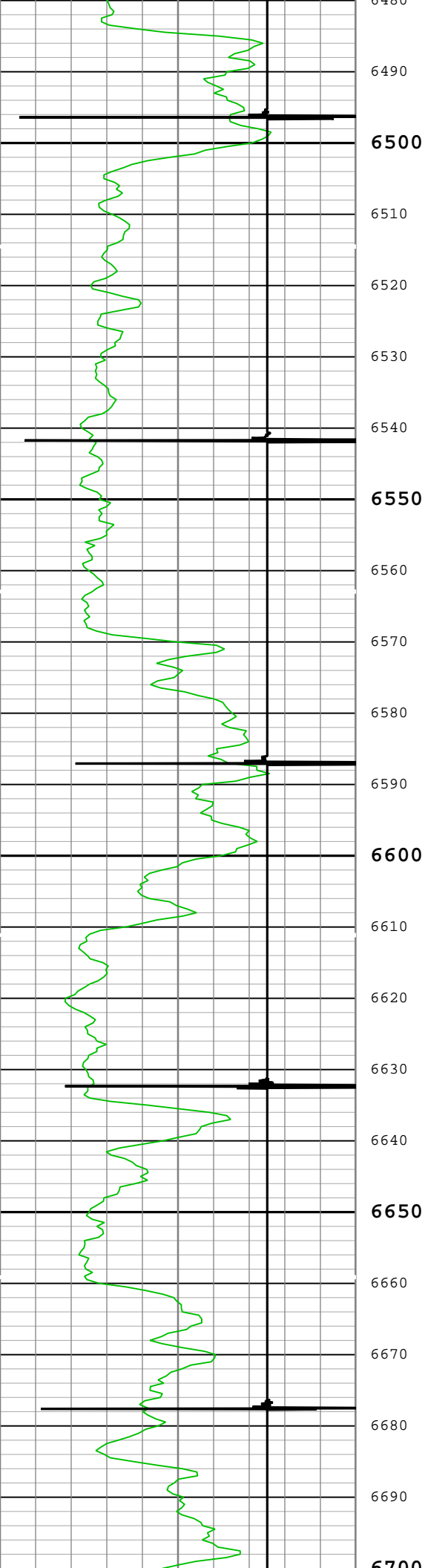


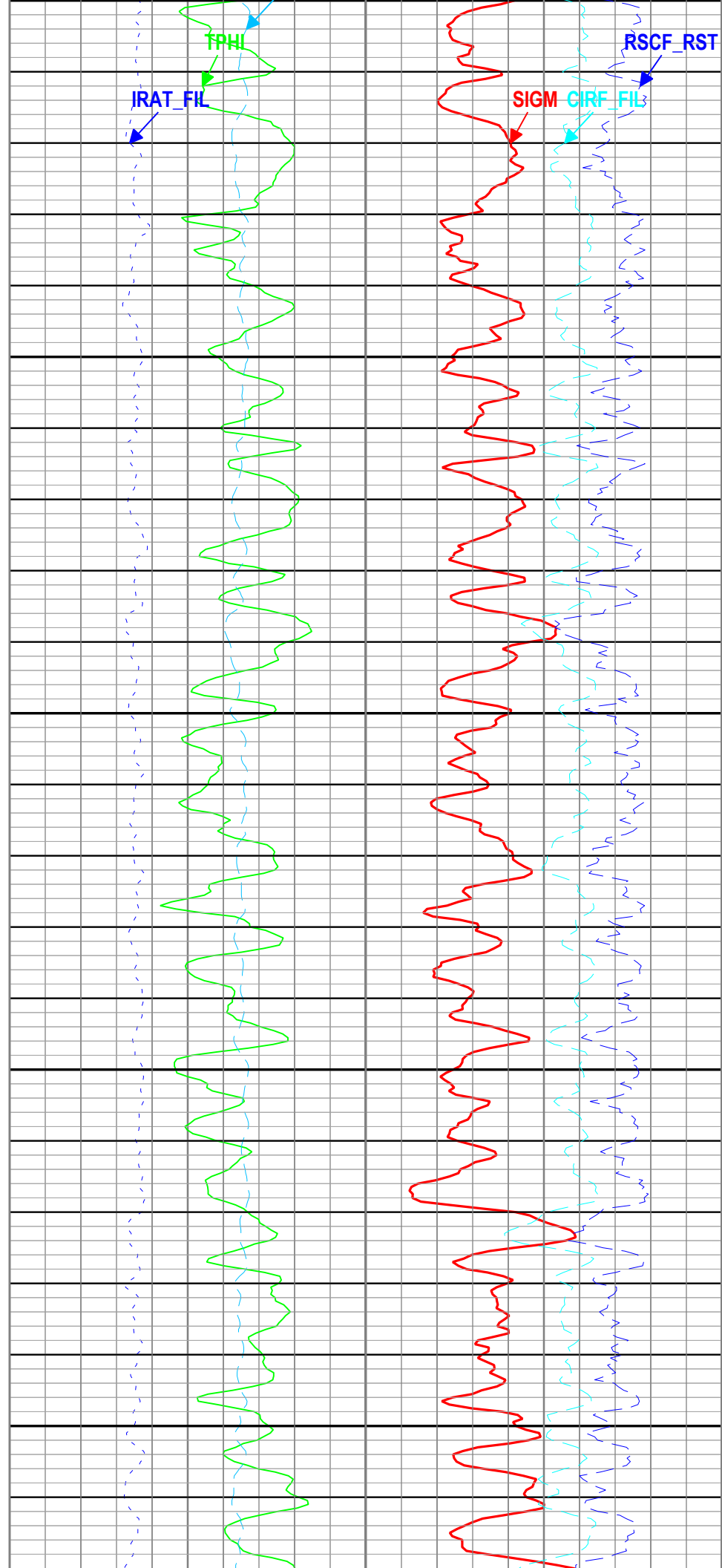
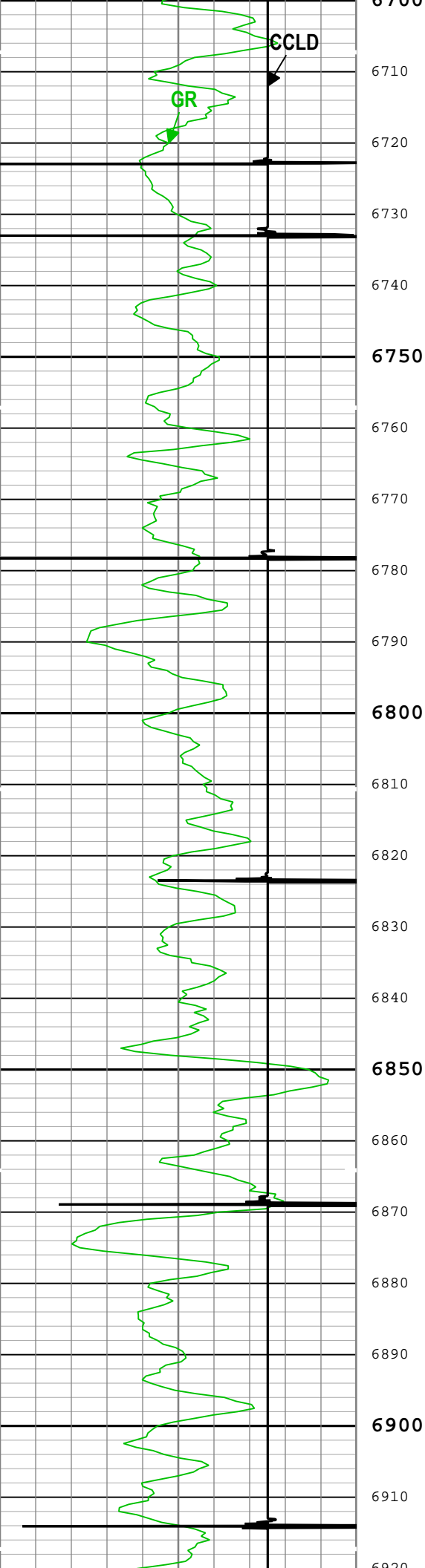


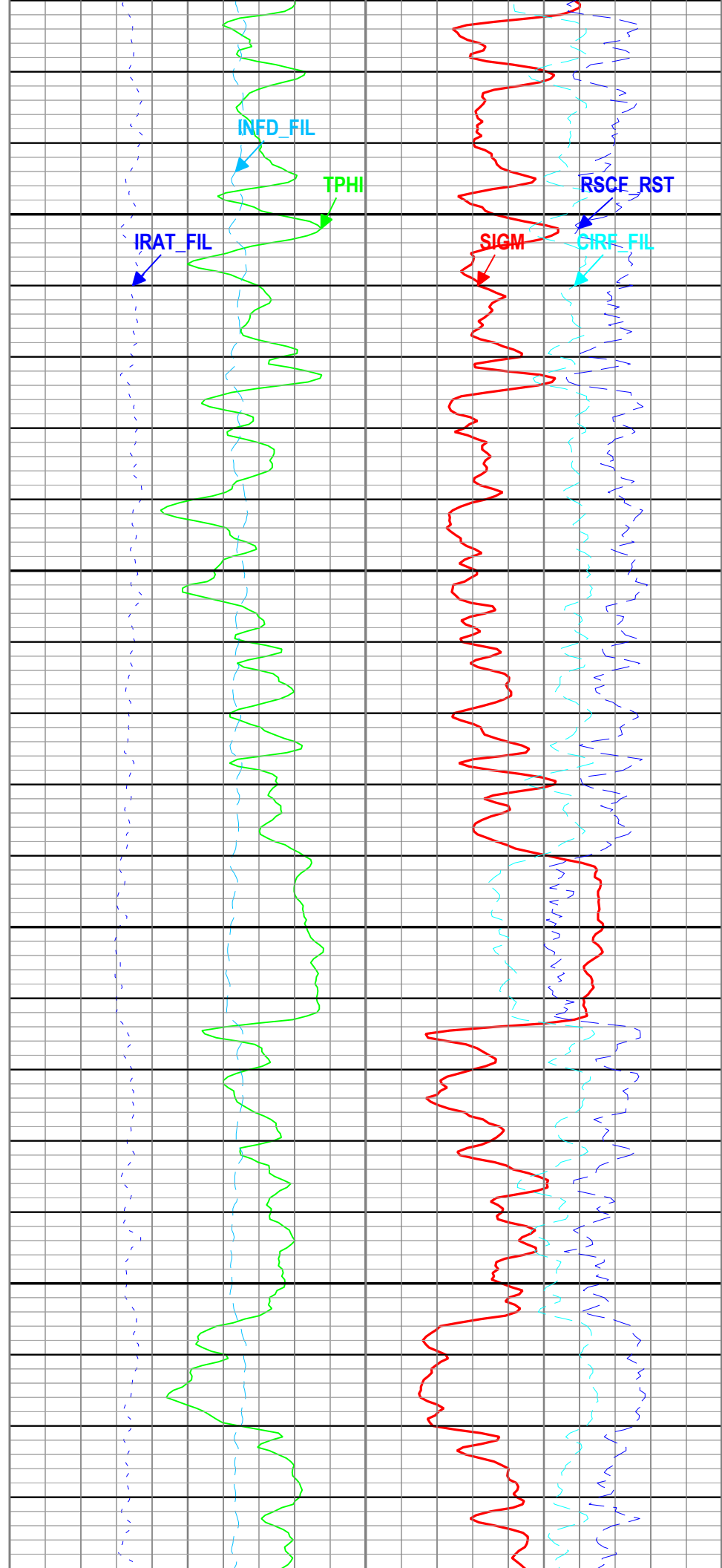
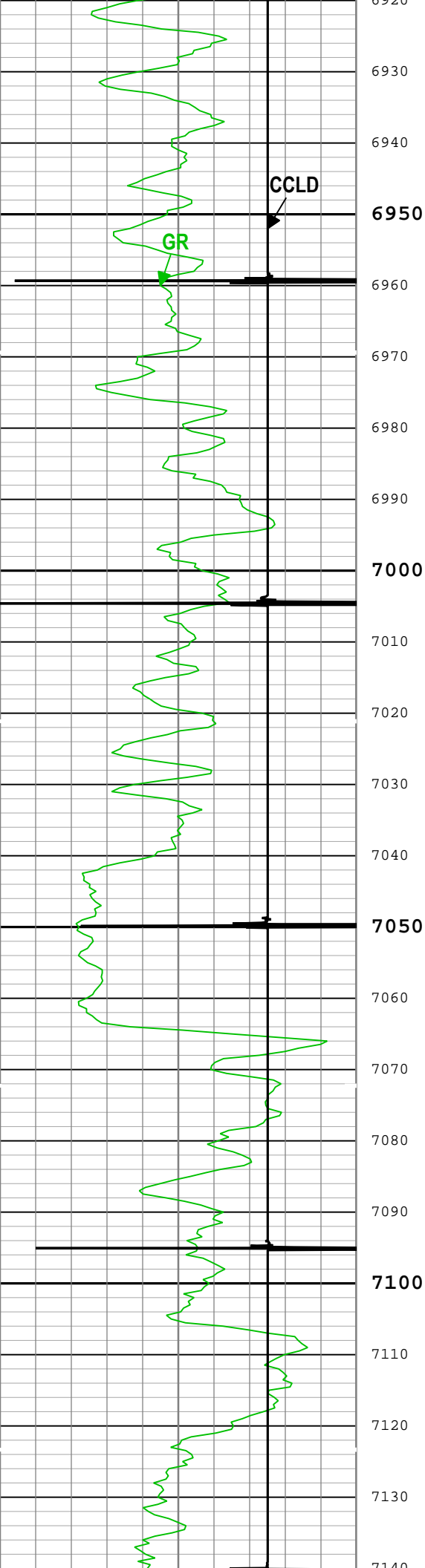




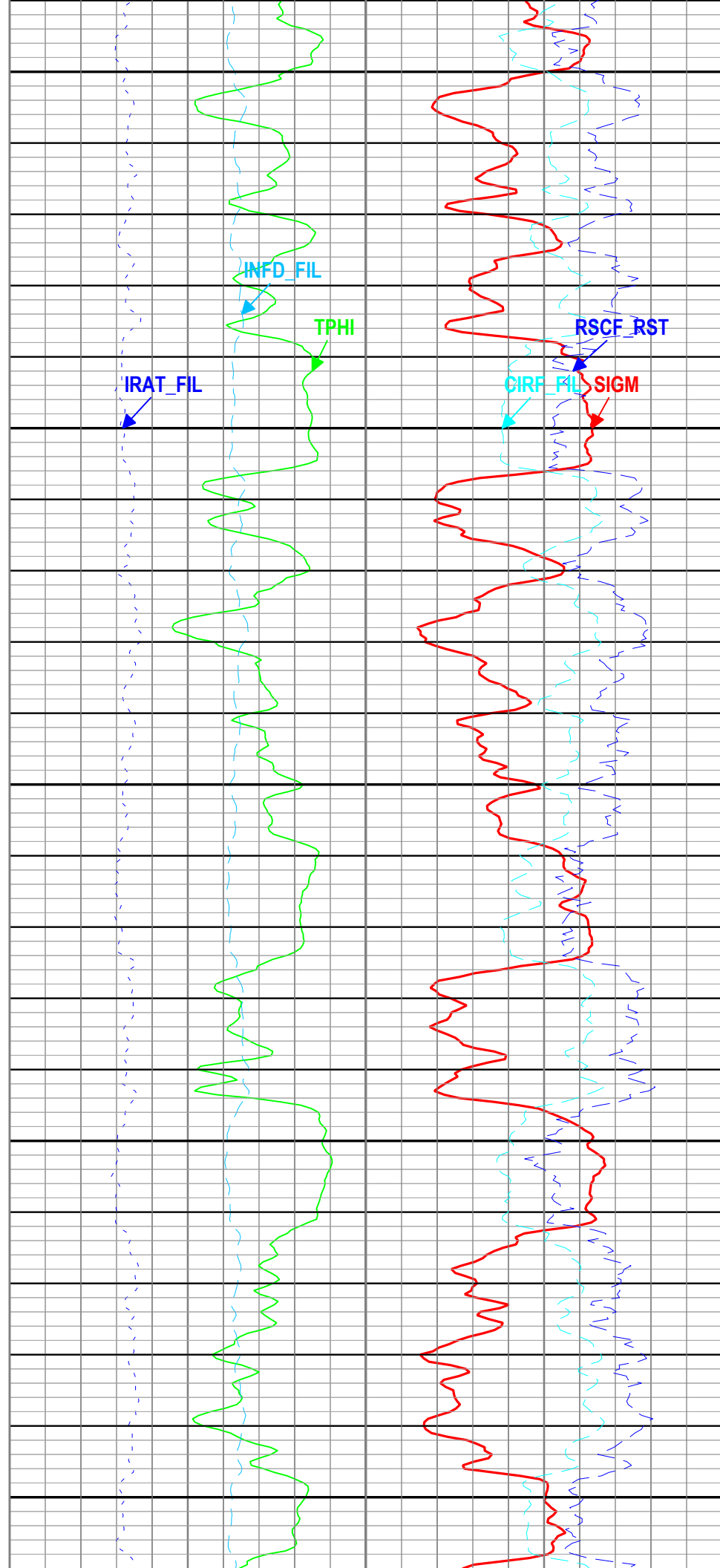
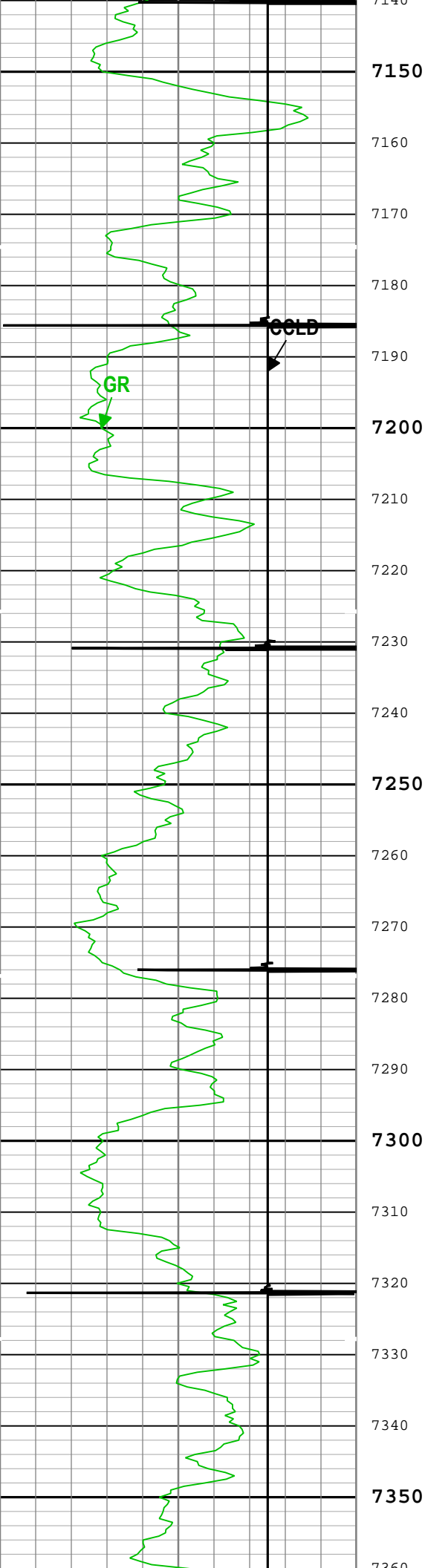


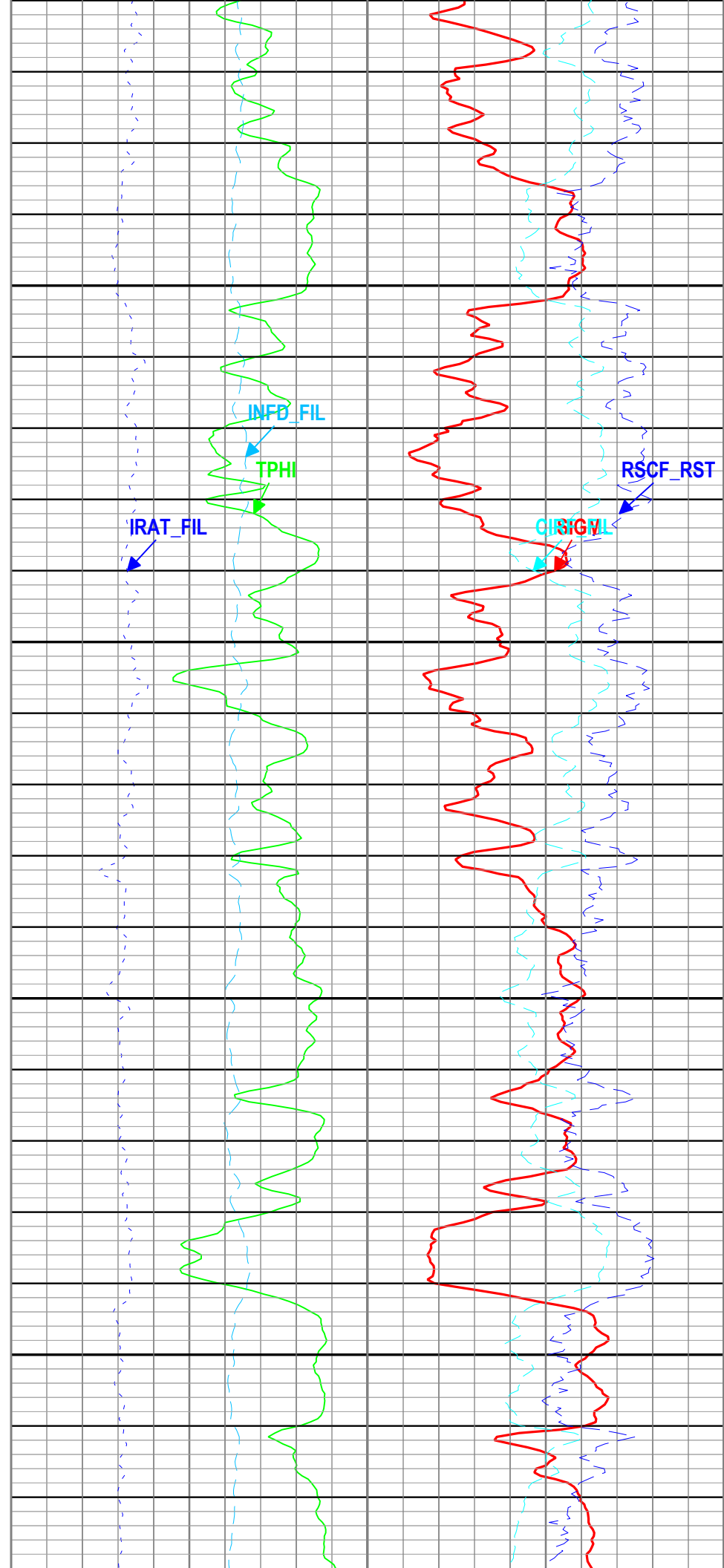
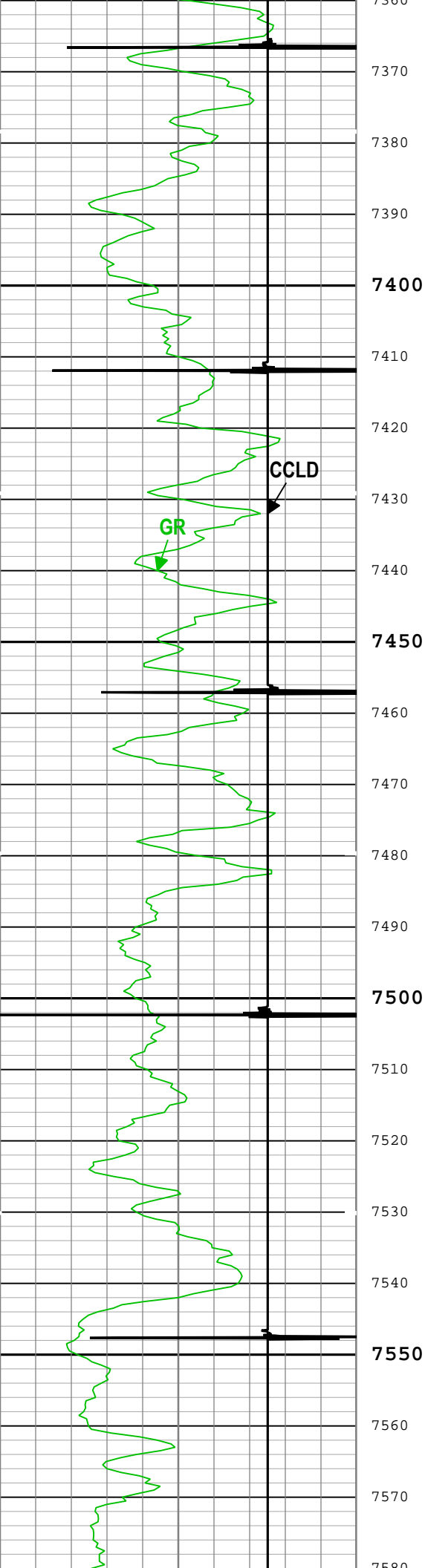


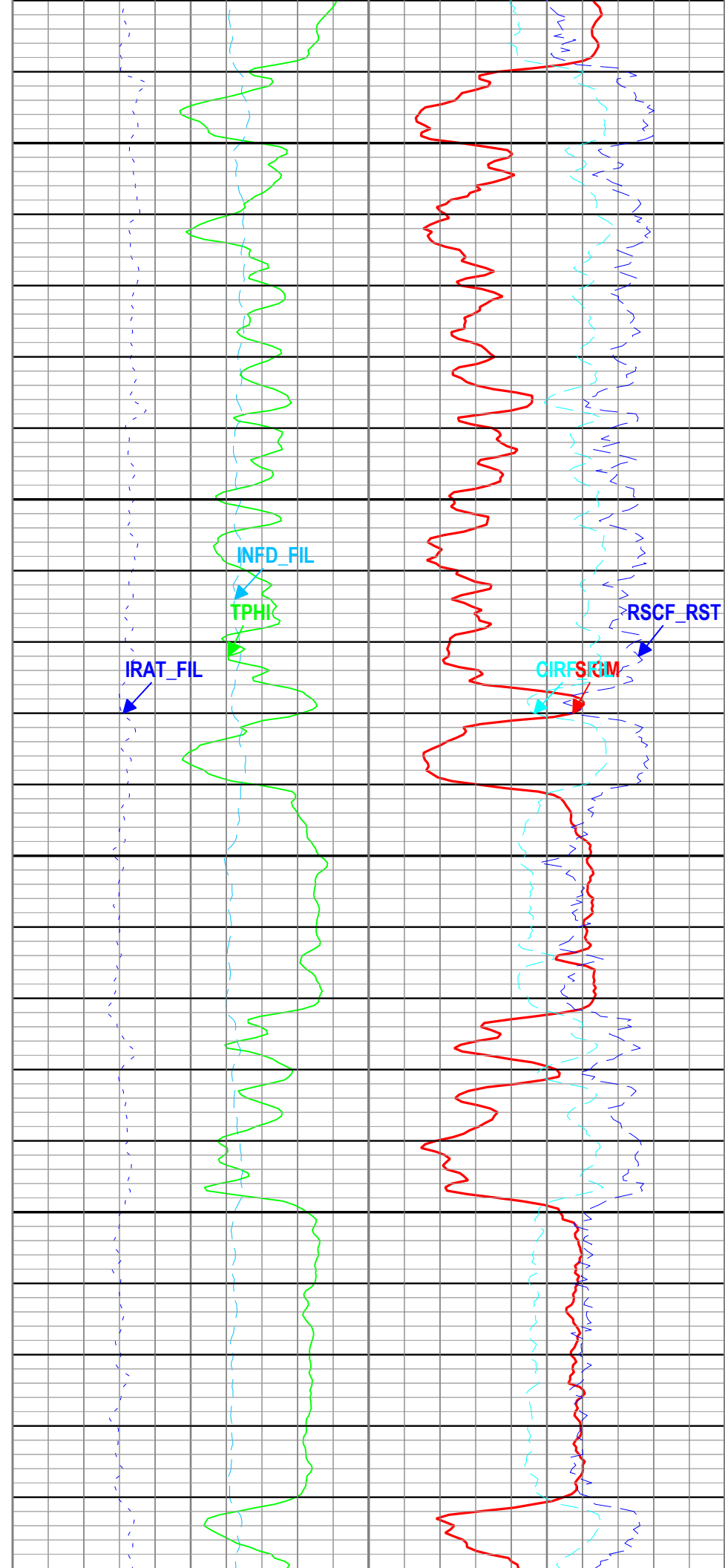
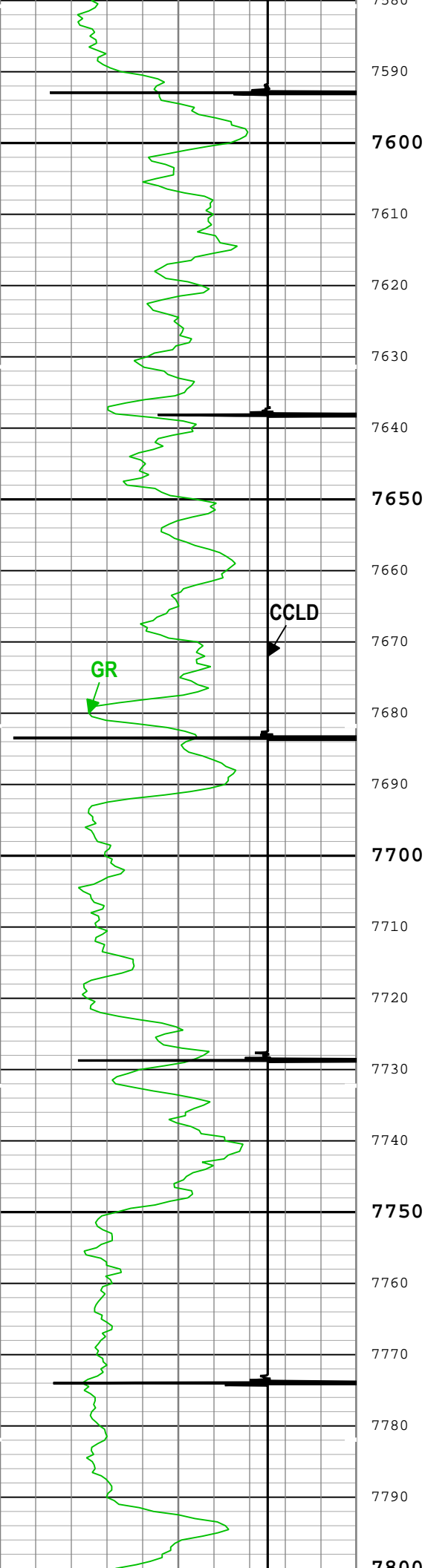


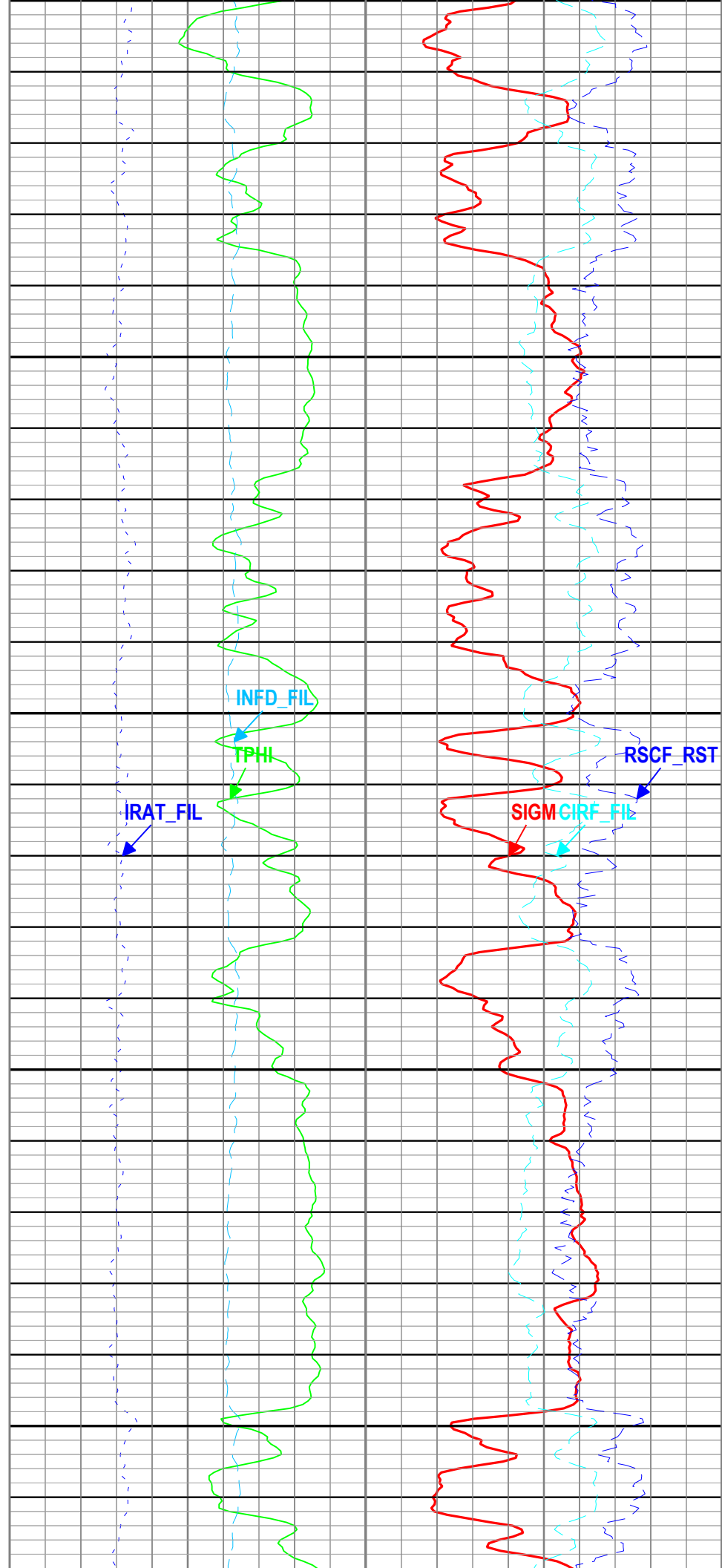
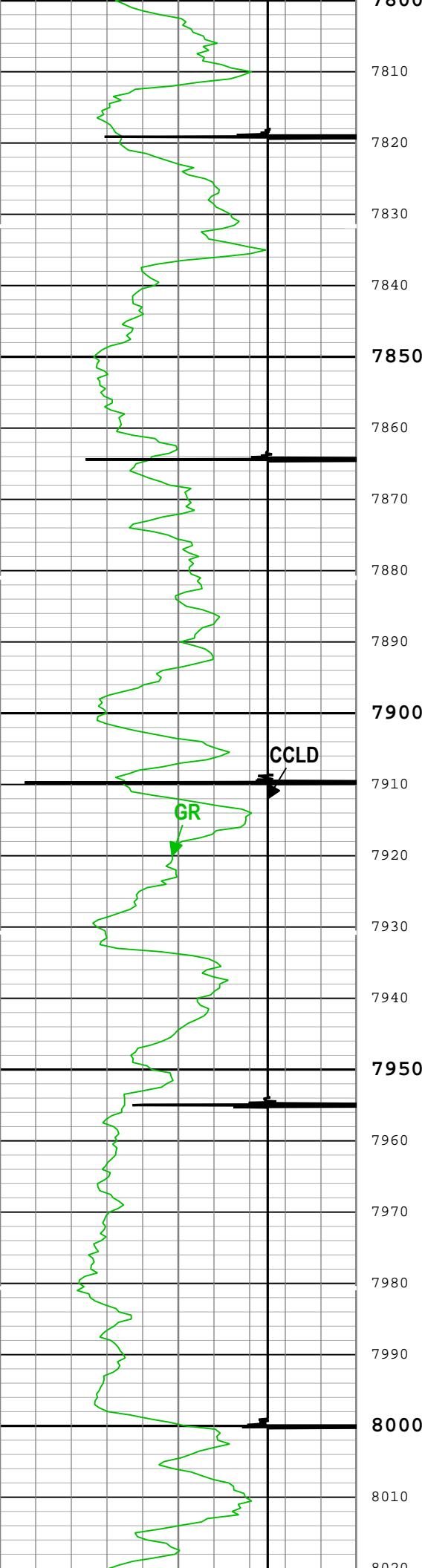


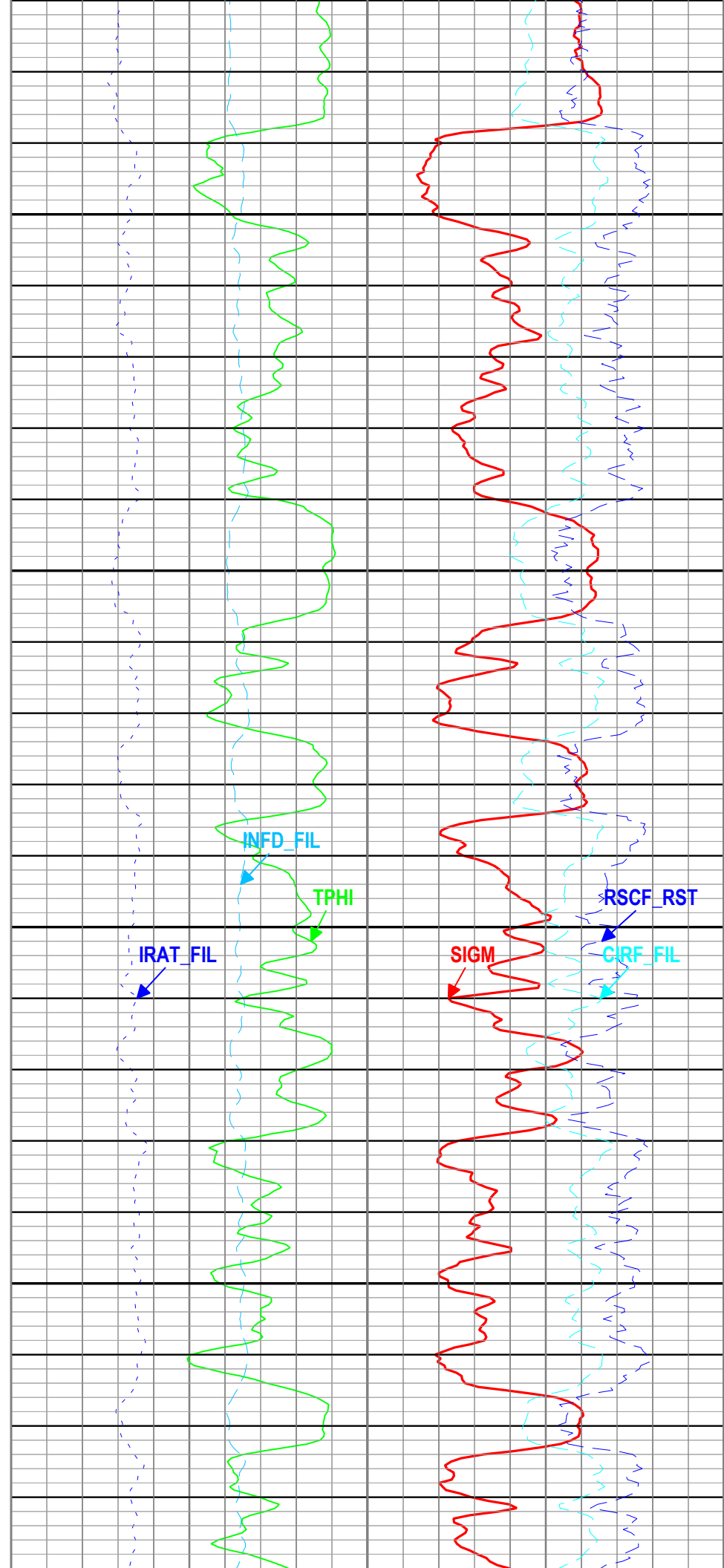
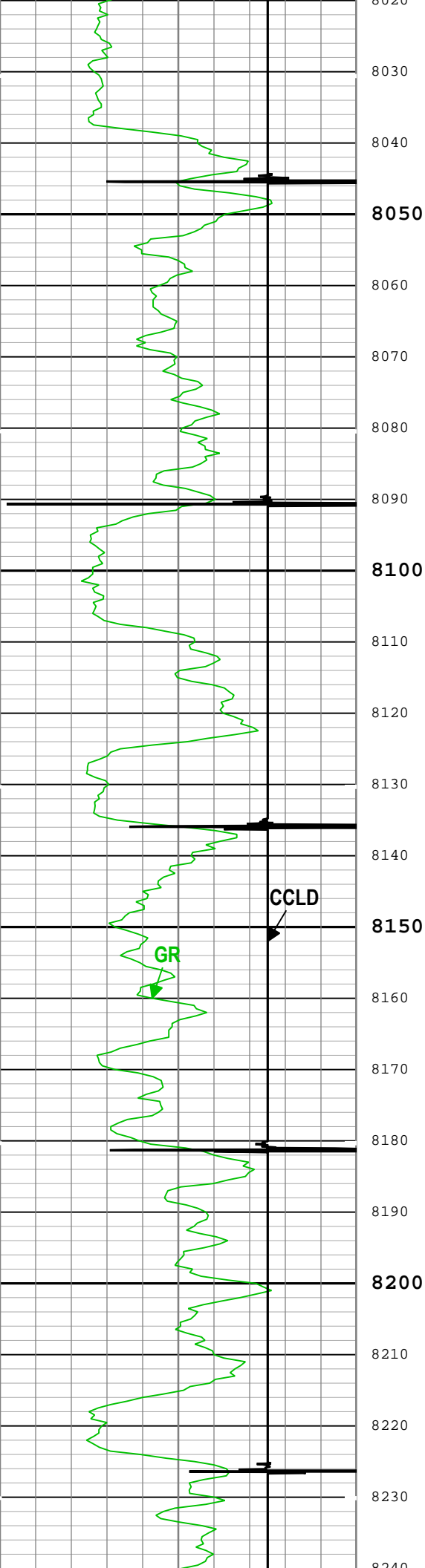




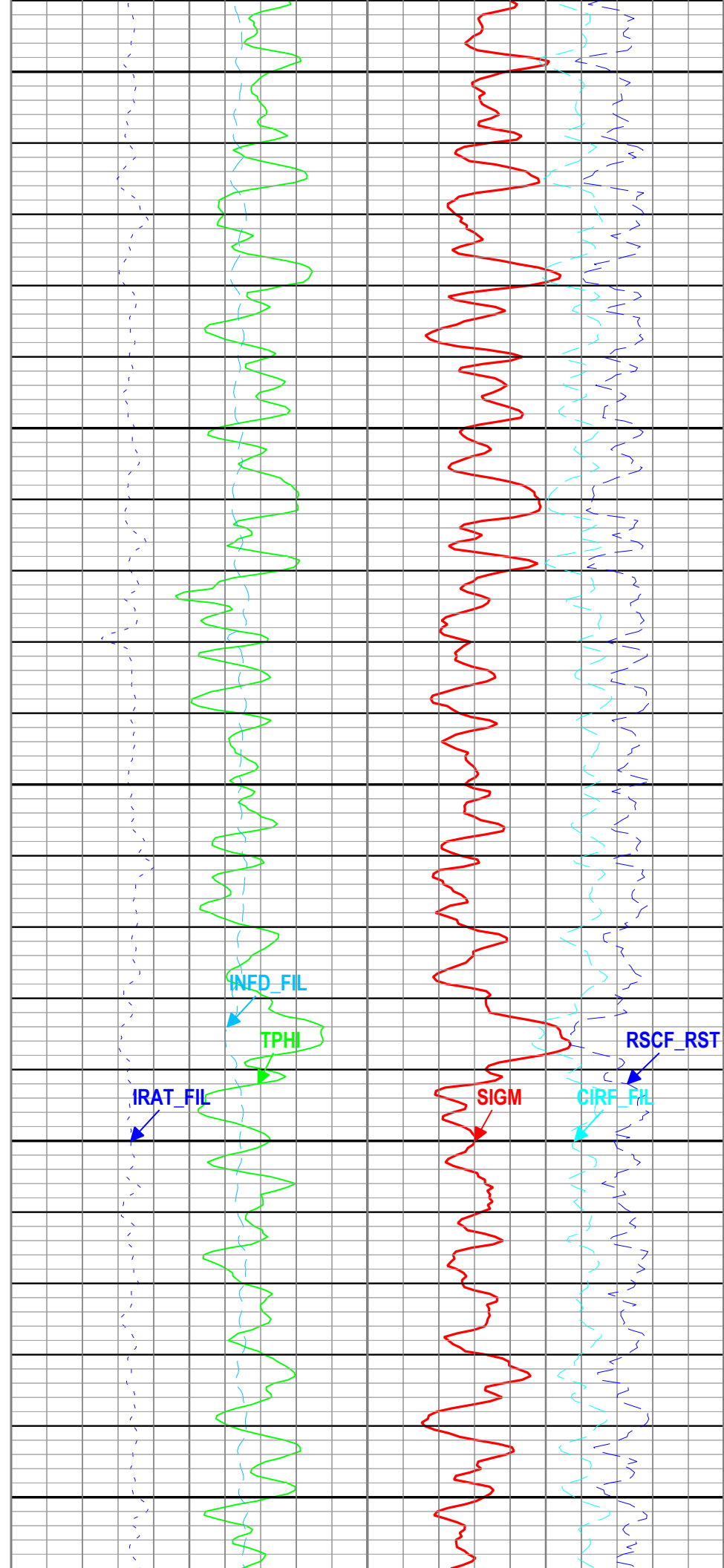
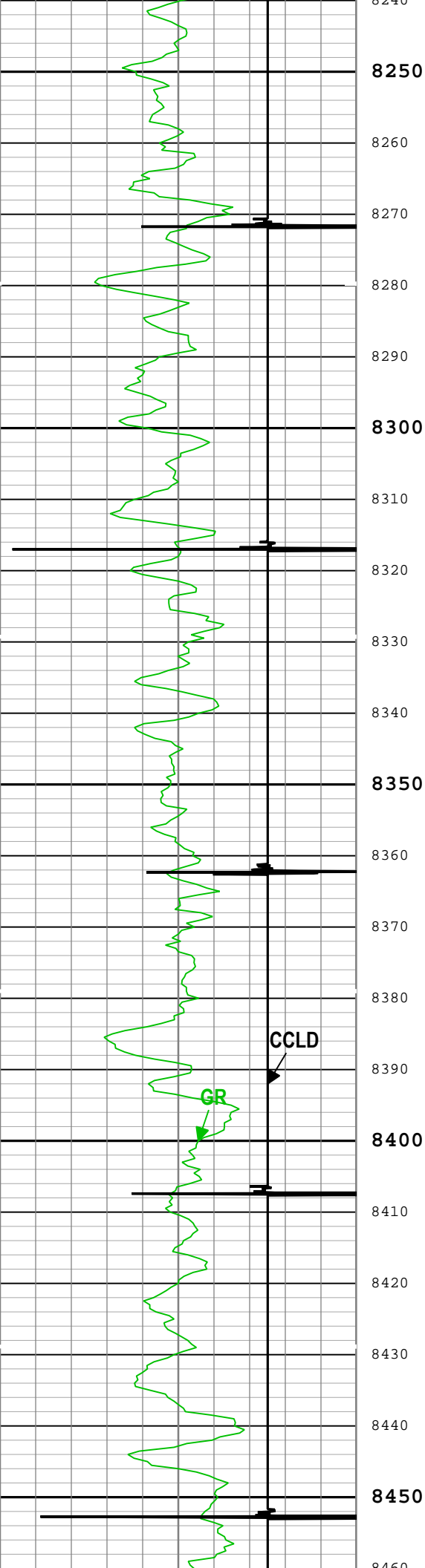


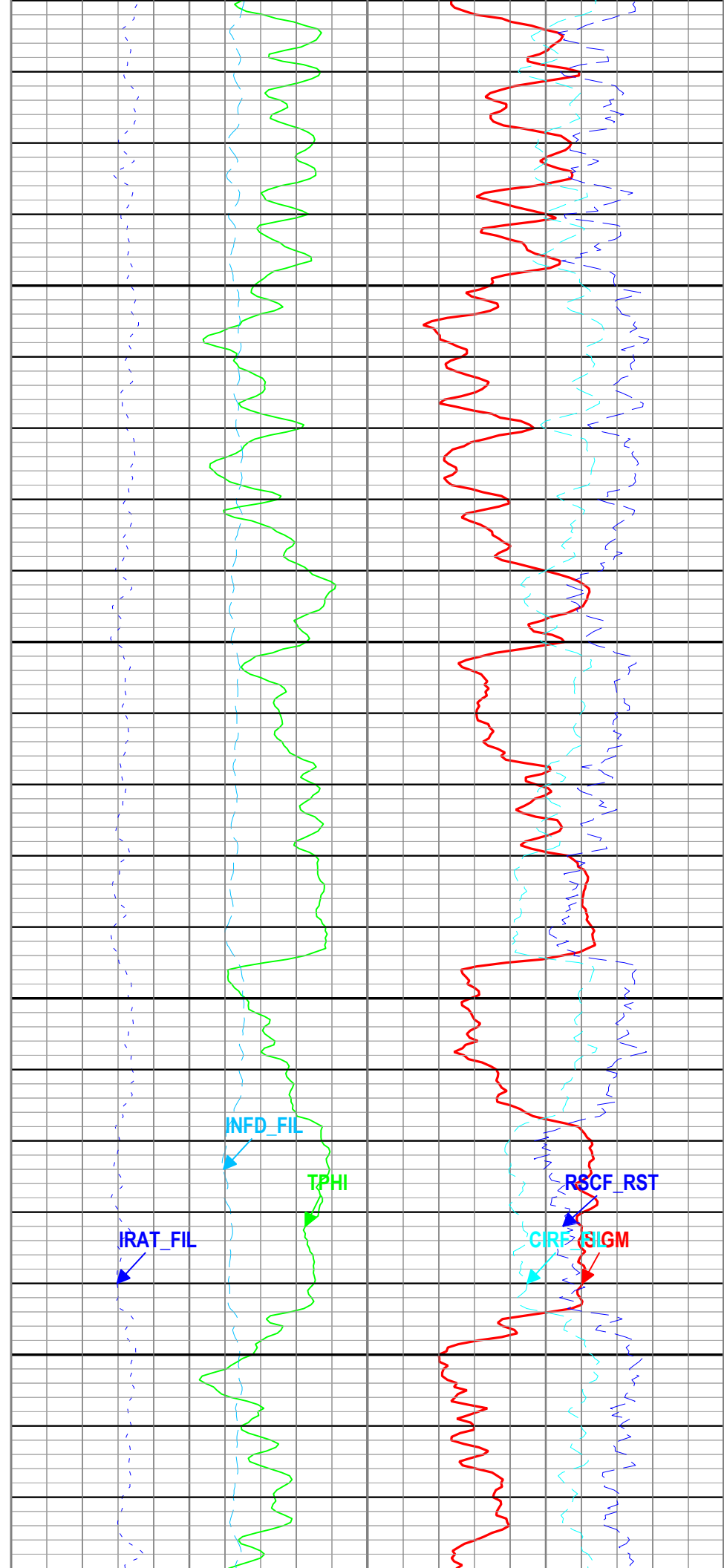
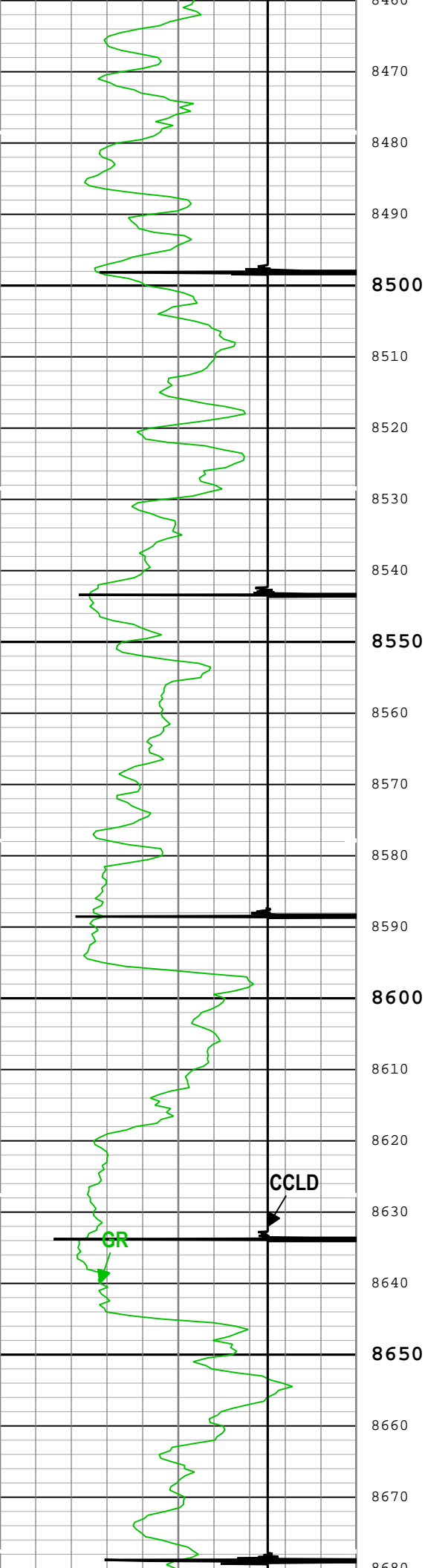


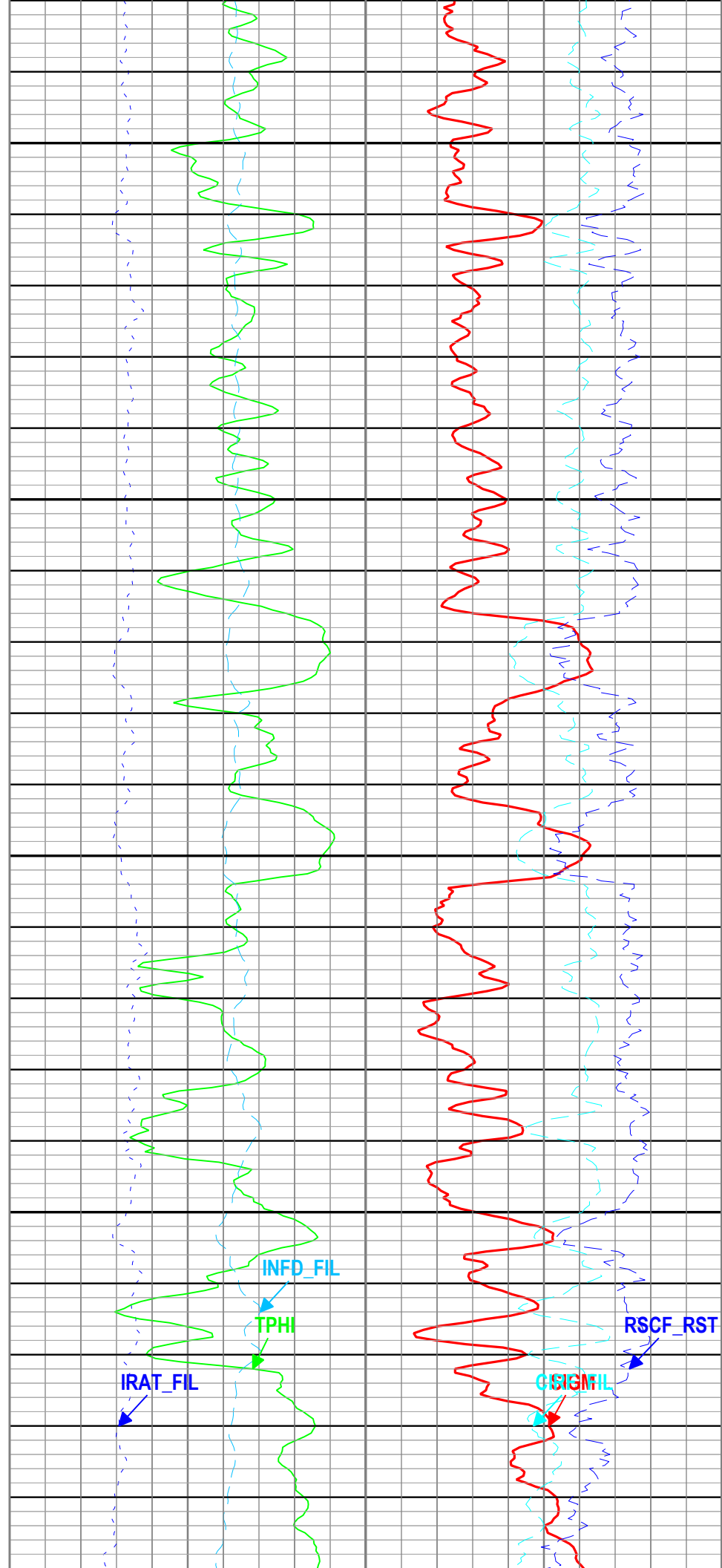
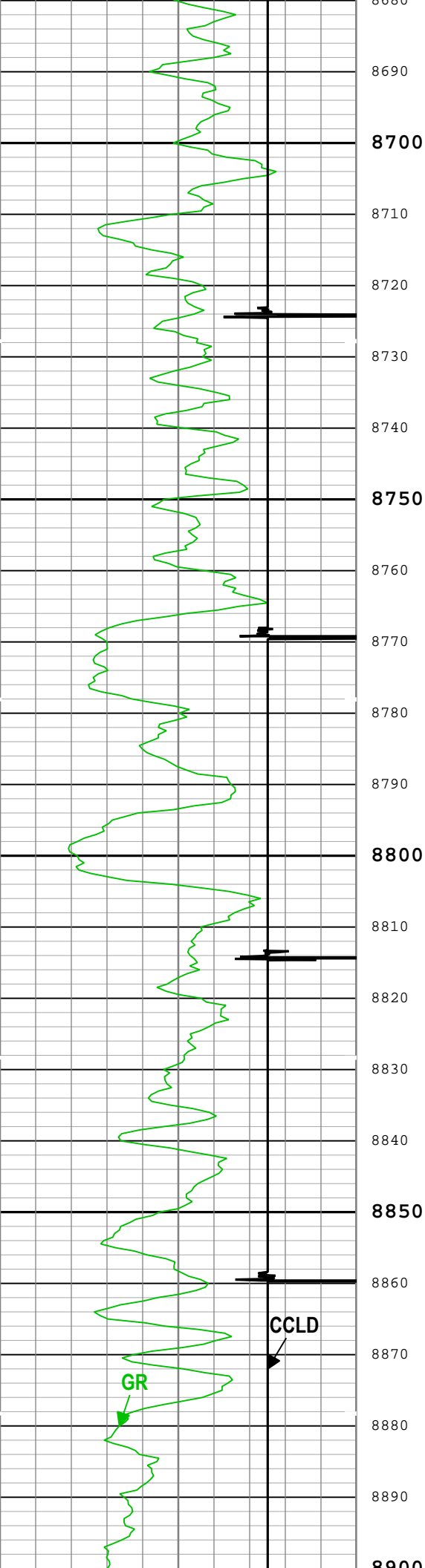


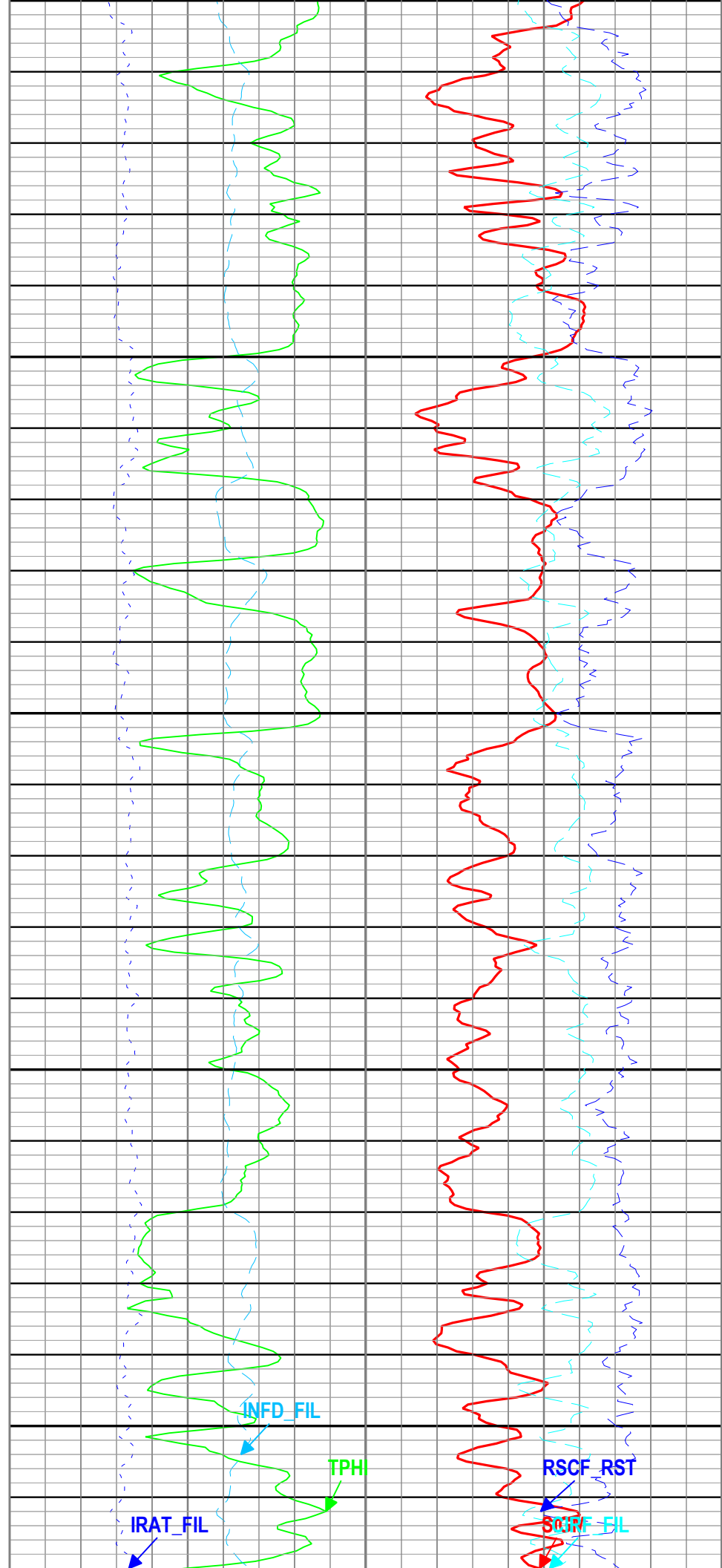
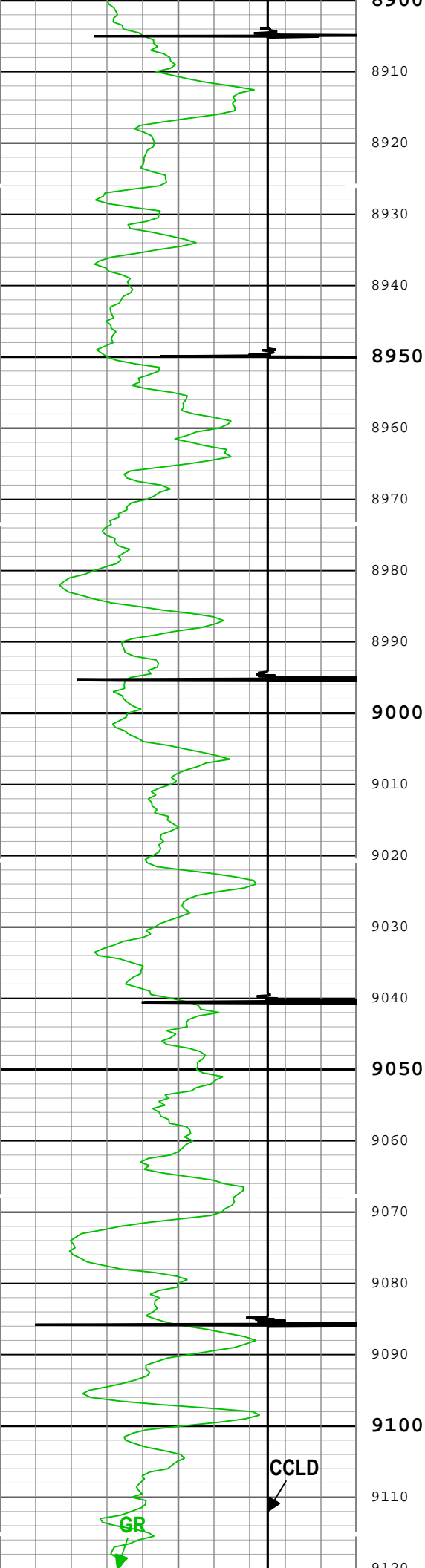


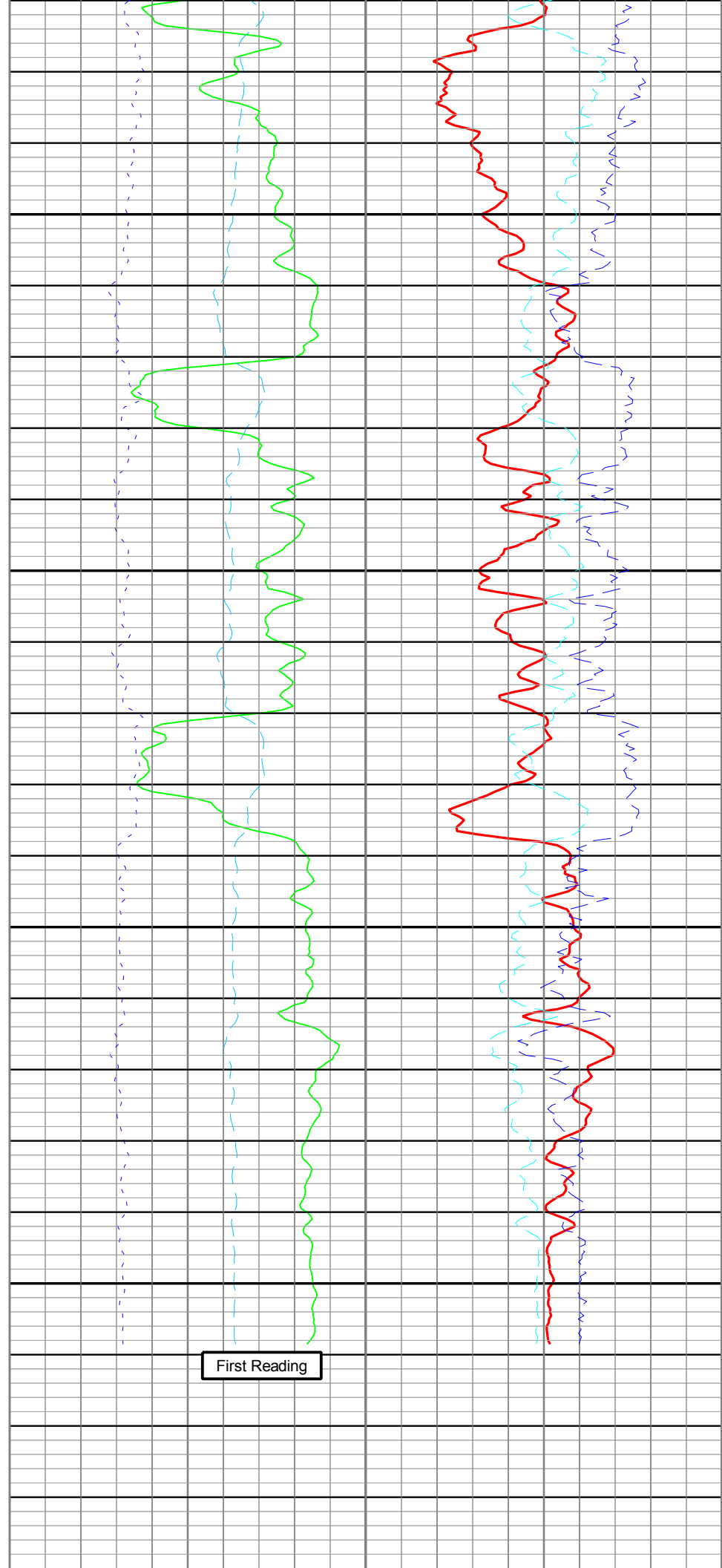
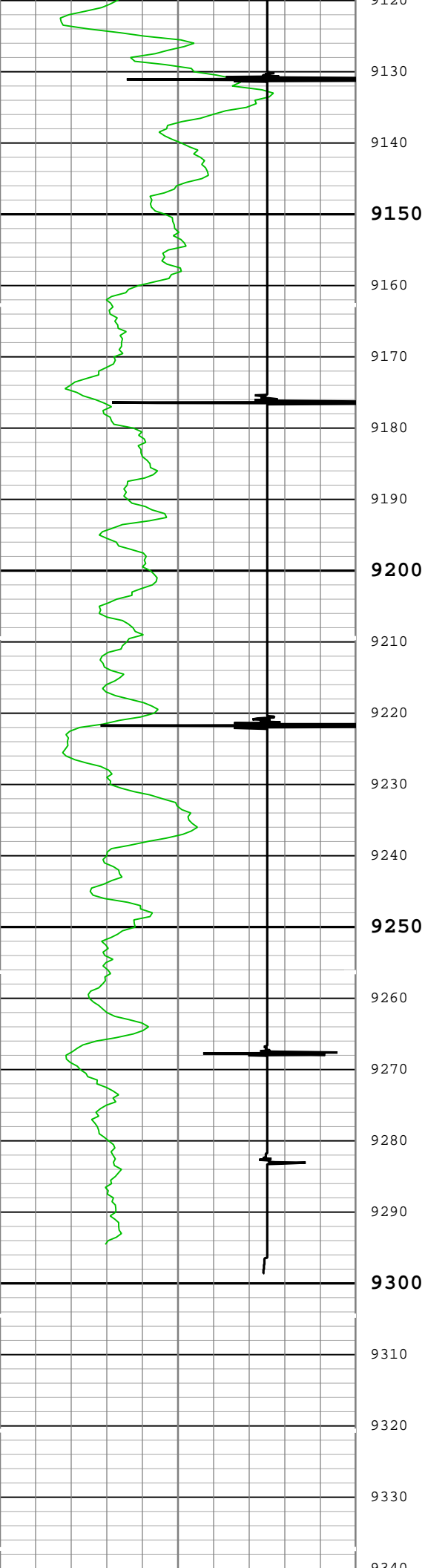














<b>Gamma Ray (GR) PSTP-A</b>												
0	gAPI								150			
<b>CCL Discriminated Amplitude (CCLD) PSTP-A</b>												
-3	V							1				

Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
60	cu	0
Inelastic Ratio Filtered (IRAT_FIL) RST-C	Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C	
0.75	5	0
Thermal Decay Porosity (TPHI) RST-C	Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C	
0.6 ft3/ft3	45	0
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C		
10000 1/s		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: 07-Jan-2018 11:41:08
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## Channel Processing Parameters

## One: Parameters

Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	8.5	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	12 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

# One

## Sigma Repeat Pass

## Software Version

Acquisition System	Version
Maxwell 2017 SP3	7.3.92069.3100

## Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[4]:Up	Up	8858.30 ft	9341.16 ft	22-Dec-2017 9:54:39 PM	22-Dec-2017 10:06:31 PM	ON	6.74 ft	Yes

All depths are referenced to toolstring zero

## Log

Company:Caerus Operating LLC

Well:Puckett 34A-23 697

One: Log[4]:Up:S005

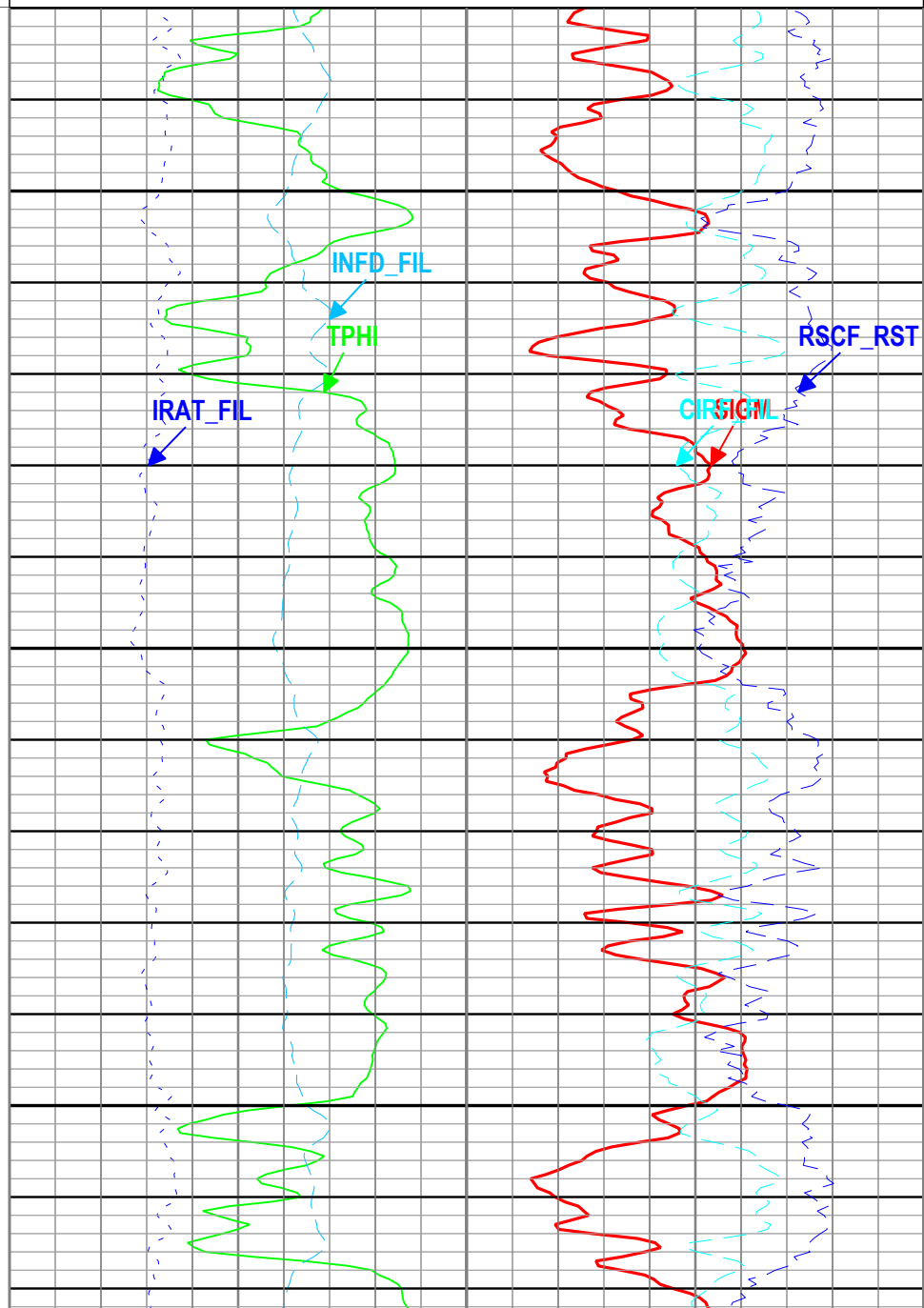
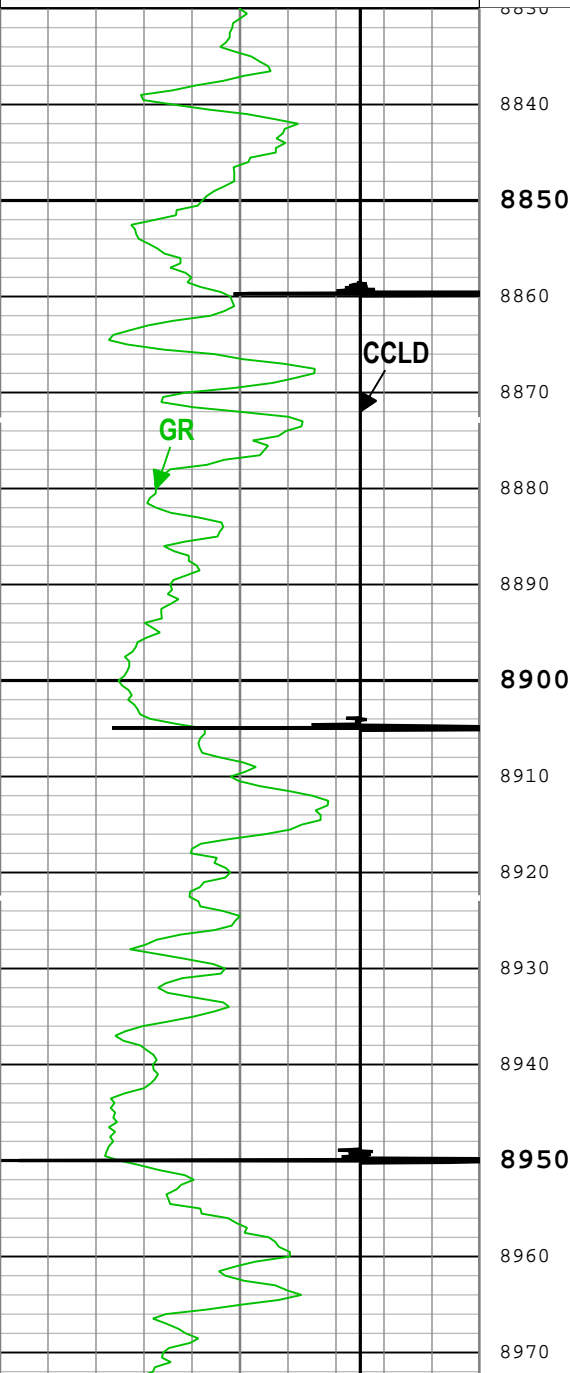
Description:	DST SIGMA Answer	Format:	(Log / DST SIGMA Answer)	Index Scale:	5 in per 100 ft	Index Unit:	ft	Index Type:	Measured Depth	Crestion
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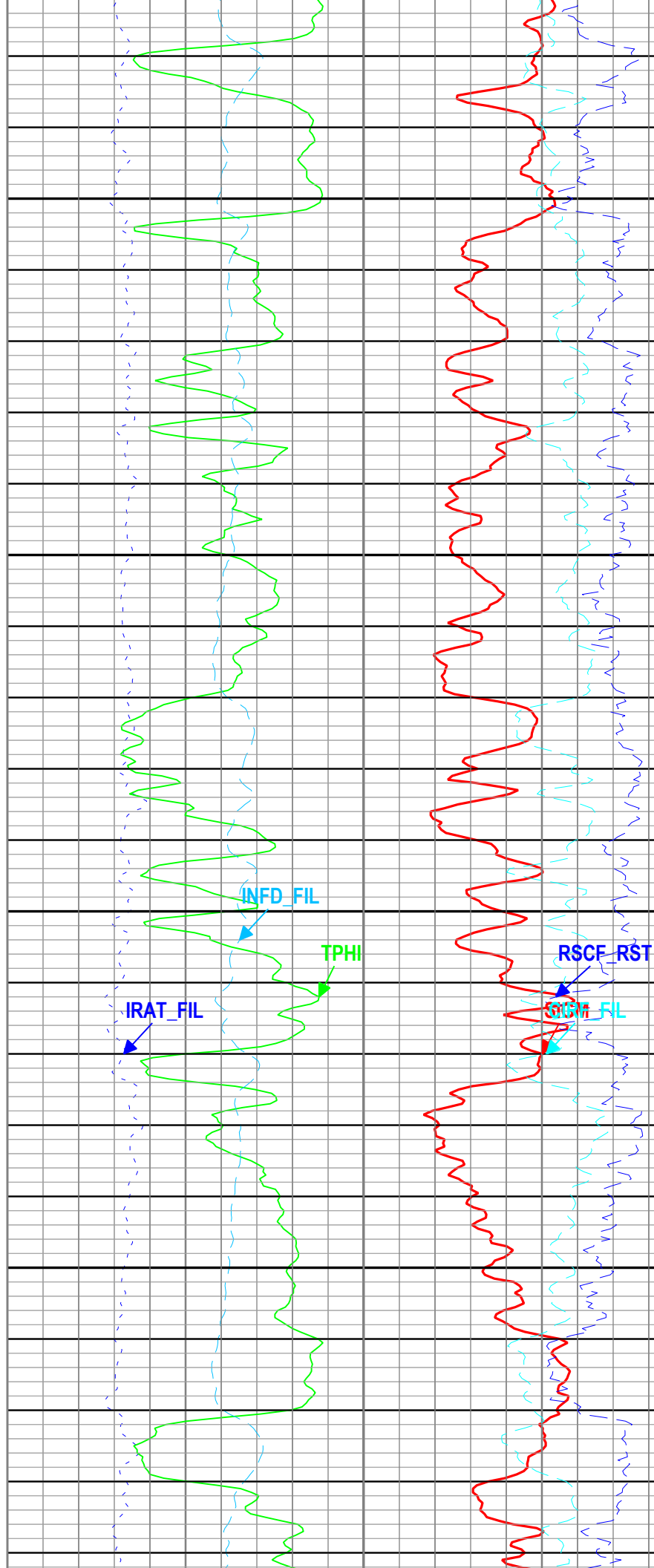
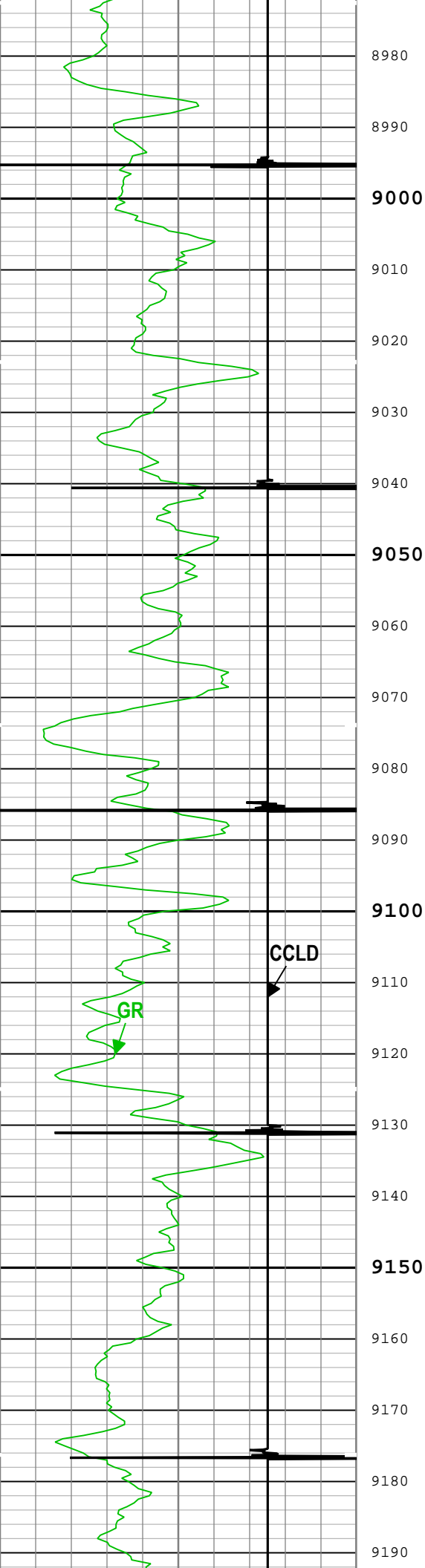
- IHV - Integrated Hole Volume every 10.00 (ft3)
- IHV - Integrated Hole Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)
- TIME\_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)
- ICV - Integrated Cement Volume every 100.00 (ft3)

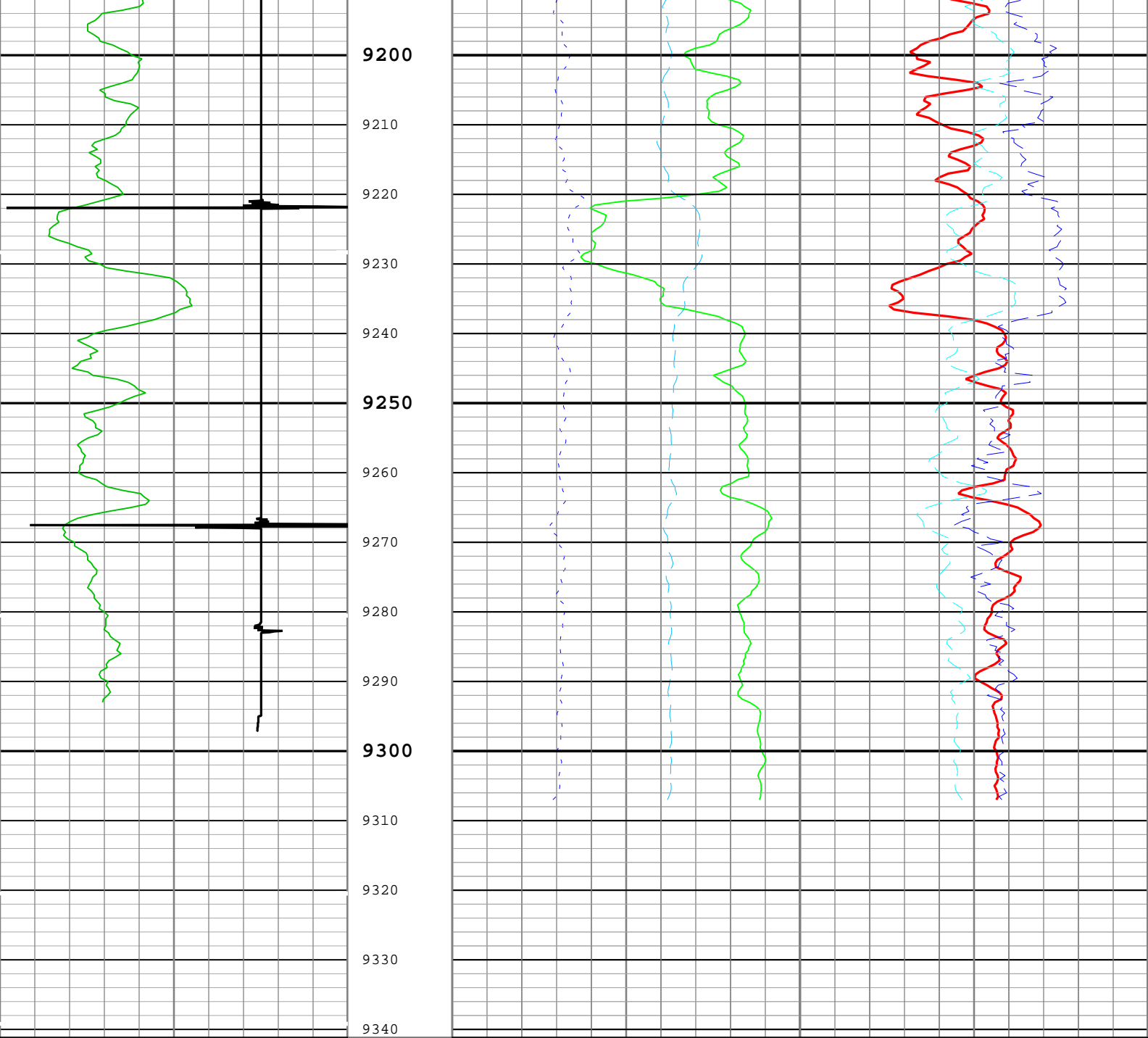
TIME\_1900 - Time Marked every 60.00 (s)

Gamma Ray (GR) PSTP-A		
0	gAPI	150
CCL Discriminated Amplitude (CCLD) PSTP-A		
-3	V	1

Inelastic Ratio Filtered (IRAT_FIL) RST-C			Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C		
0.75		0			0
Thermal Decay Porosity (TPHI) RST-C			Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C		
0.6	ft3/ft3	0	5		0
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C			Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
10000	1/s	0	45		0
60	cu				0







Gamma Ray (GR) PSTP-A		
0	gAPI	150
CCL Discriminated Amplitude (CCLD) PSTP-A		
-3	V	1

Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
60	cu	0
Inelastic Ratio Filtered (IRAT_FIL) RST-C		Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C
0.75	0	5
Thermal Decay Porosity (TPHI) RST-C		Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
0.6	ft3/ft3	0
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C		45
10000	1/s	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)

Channel Processing Parameters

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Tool Control Parameters

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RST_DLM	Depth Log Mode	RST-C	Sigma	



Company:	Caerus Operating LLC	Schlumberger
Well:	Puckett 34A-23 697	
Field:	Grand Valley	
County:	Garfield	
State:	Colorado	
Cement Bond Log		
RST Sigma Log		
Gamma Ray/ Collar Log		