

Company: Caerus Operating LLC

Well: Puckett 15A-23 697

Field: Grand Valley

County: Garfield State: Colorado

Cement Bond Log  
RST Sigma Log  
Gamma Ray / CCL LogCounty: Garfield  
Field: Grand Valley  
Location: Lat 39.30' 07.76" N Long. 108.11' 18.38" W  
Well: Puckett 15A-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	Elev.: 8432.00 f	
	Log Measured From:	Kelly Bushing	30.00 ft above Perm.Datum	
	Drilling Measured From:	Kelly Bushing		
API Serial No.	Section:	Township:	Range:	
5045233890000	23	6S	97W	

Logging Date 21-Dec-2017

Run Number ONE

Depth Driller 9300.00 ft

Schlumberger Depth 9300.00 ft

Bottom Log Interval 9040.00 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 8.75 in

From 2525.00 ft

To 9300.00 ft

Casing/Tubing Size 4.5 in

Weight 11.6 lbm/ft

Grade P110

From 0.00 ft

To 9291.50 ft

Max Recorded Temperatures 232 degF

Logger on Bottom 21-Dec-2017 11:12:00

Unit Number 3003 Location: Evanston, Wyoming

Recorded By Justin Ray

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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8.5 Parameter Listing

9. ONE Free Pipe Pass

9.1 Integration Summary

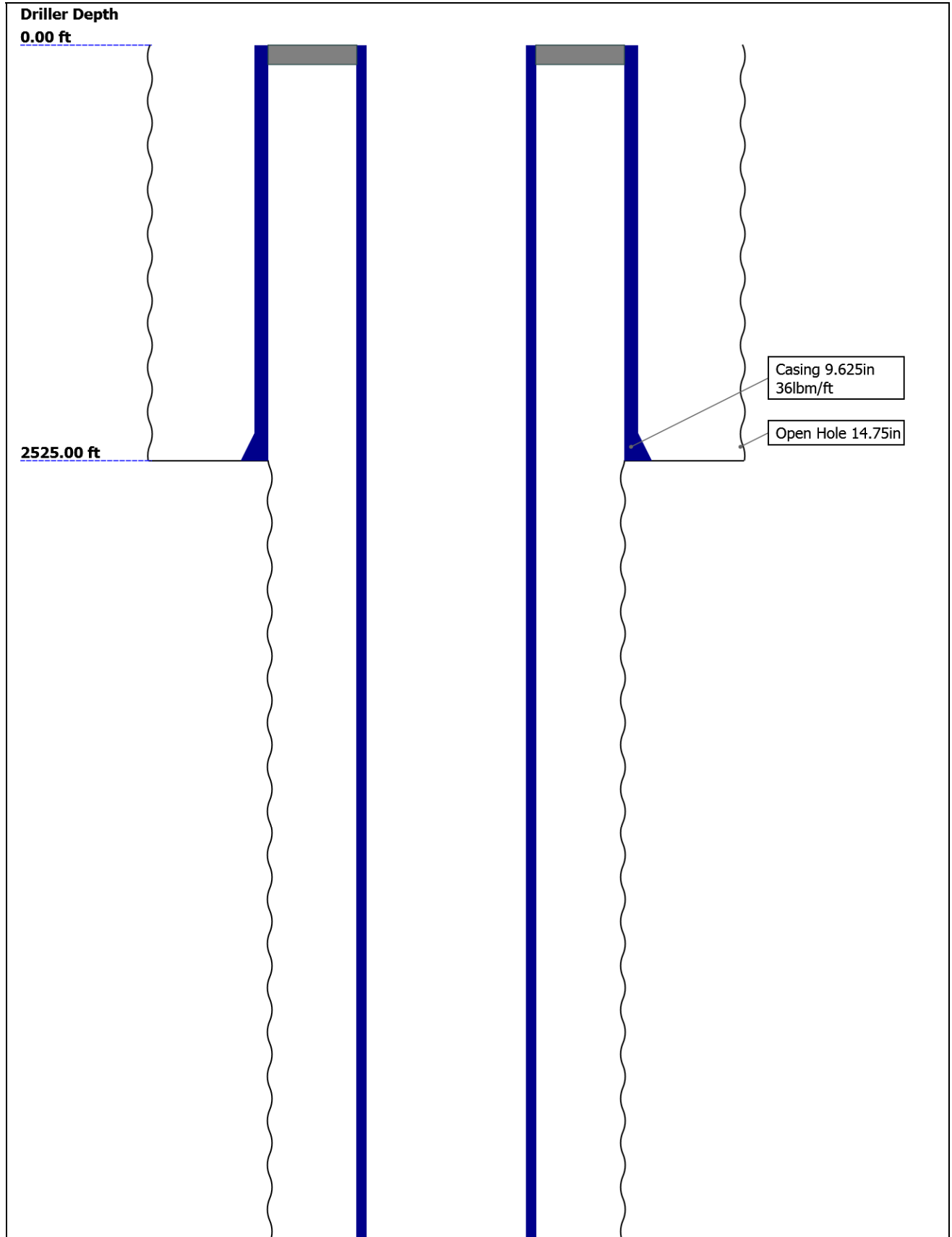
9.2 Software Version

9.3 Composite Summary

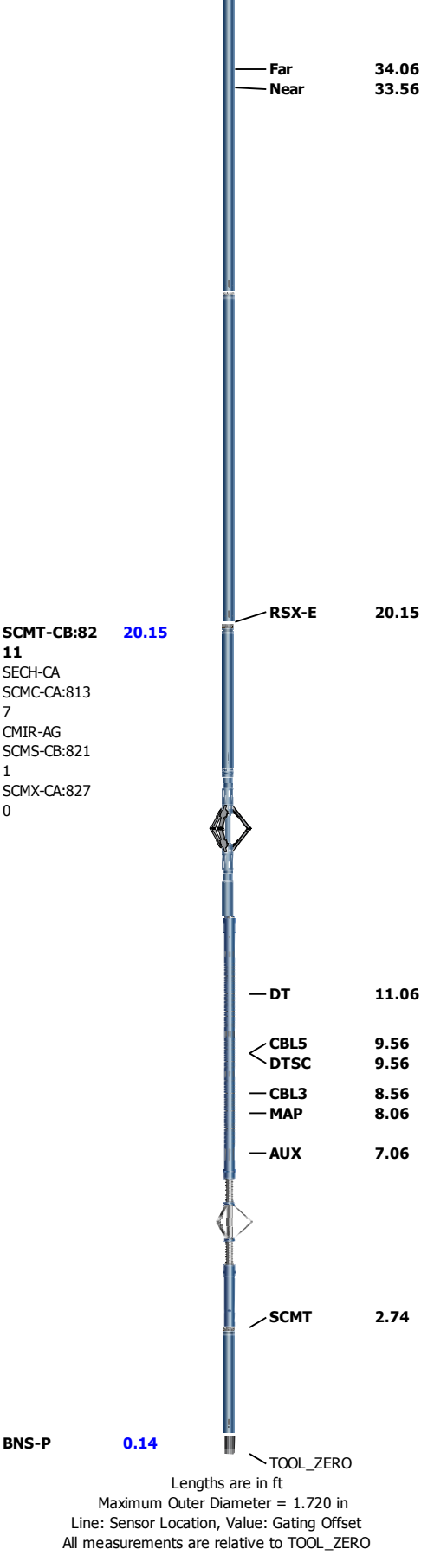
9.4 Log ( SCMT\_Amp\_VDL )

9.5 Parameter Listing

## Well Sketch







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

# Pass Summary

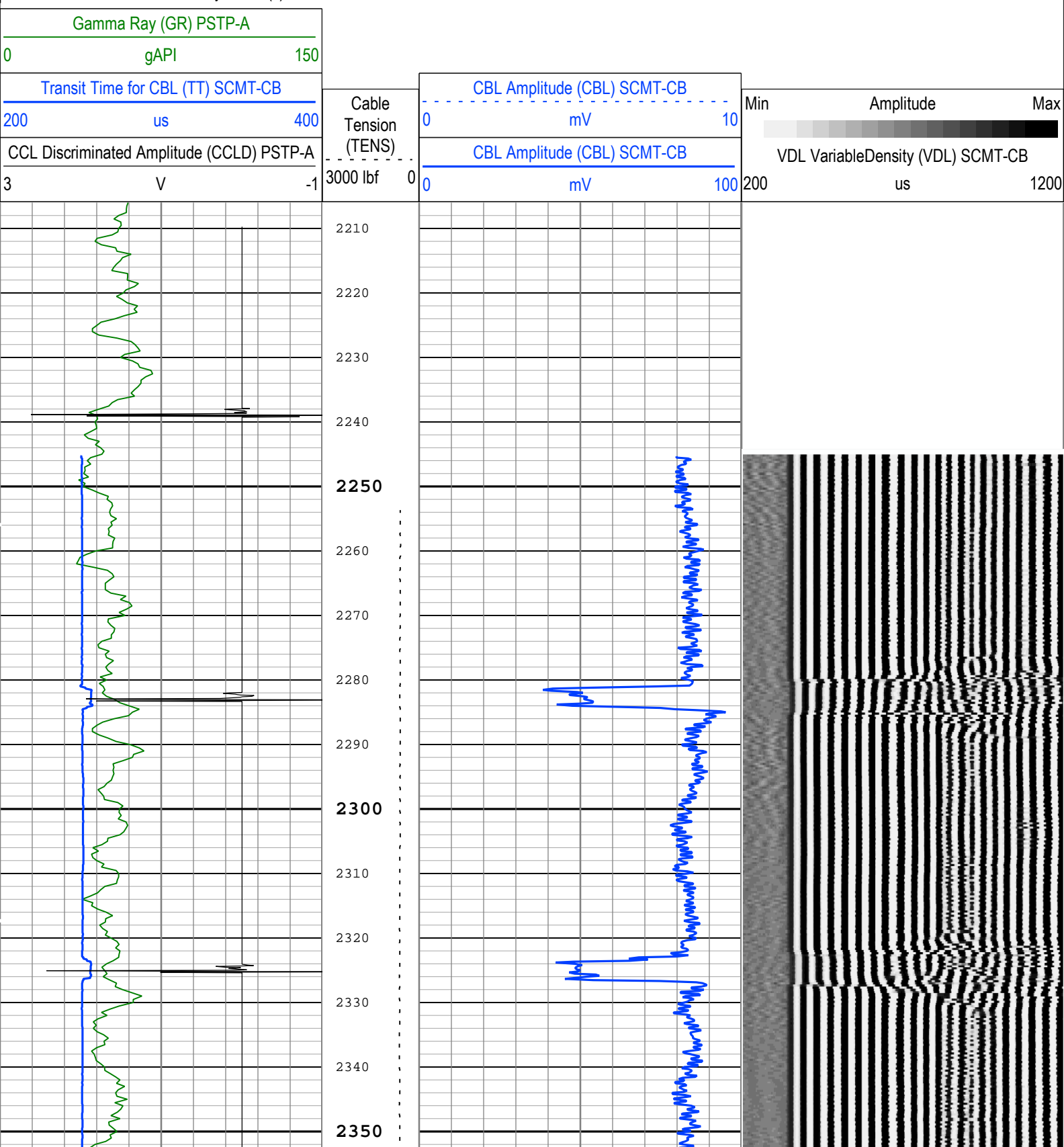
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[3]:Up	Up	2253.64 ft	9051.69 ft	21-Dec-2017 10:57:36 AM	21-Dec-2017 1:27:02 PM	ON	0.00 ft	Yes

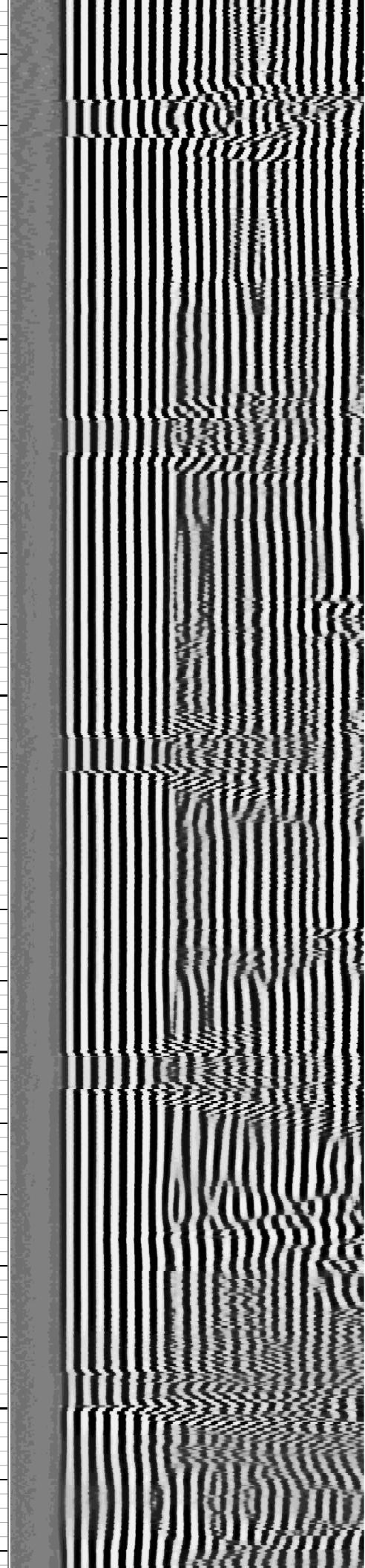
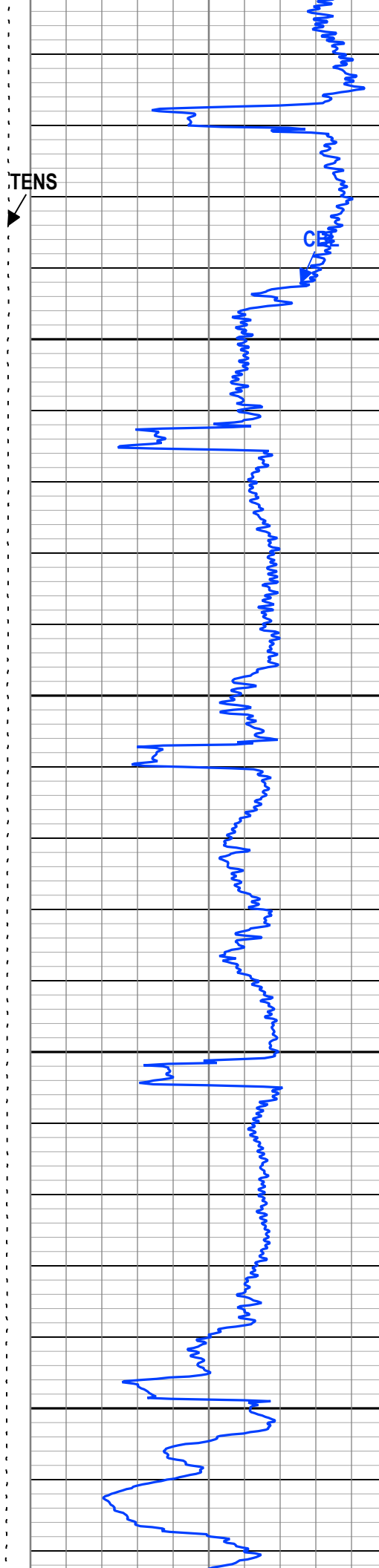
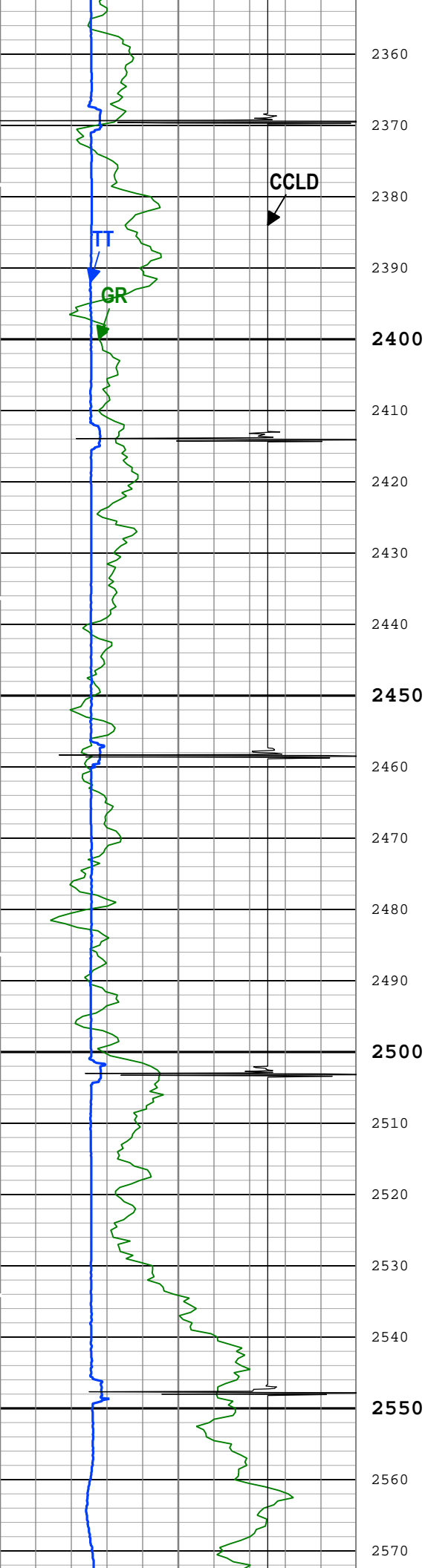
All depths are referenced to toolstring zero

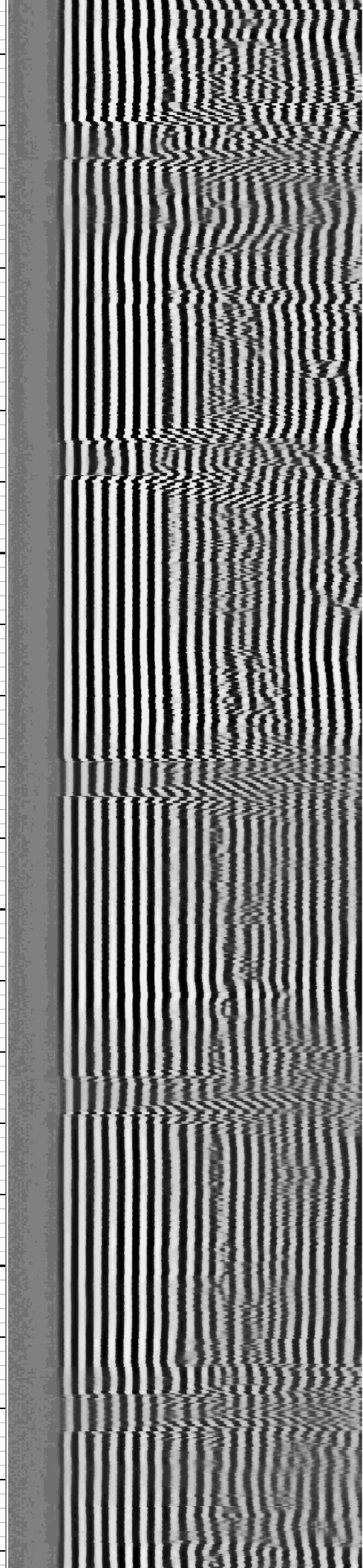
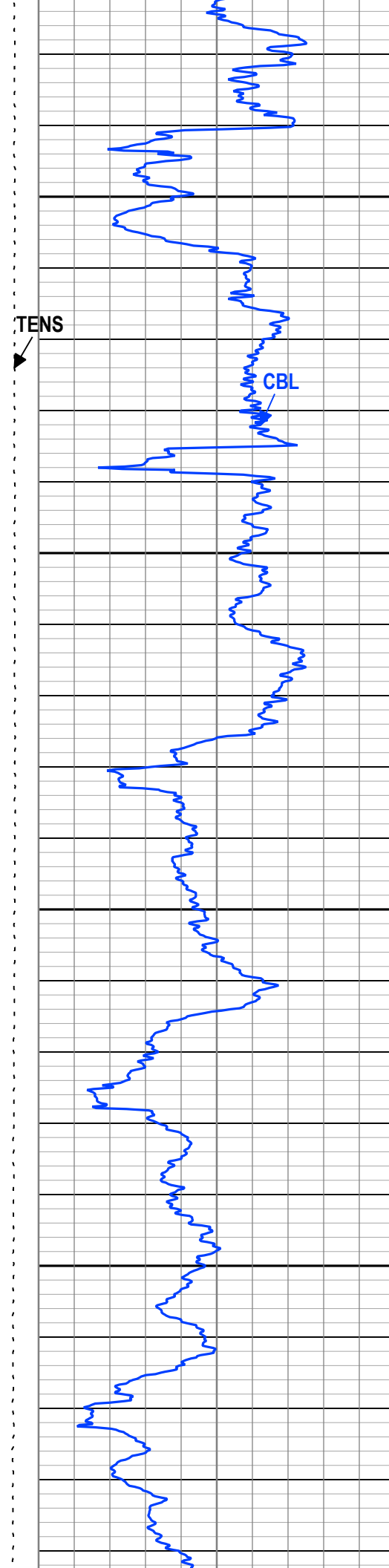
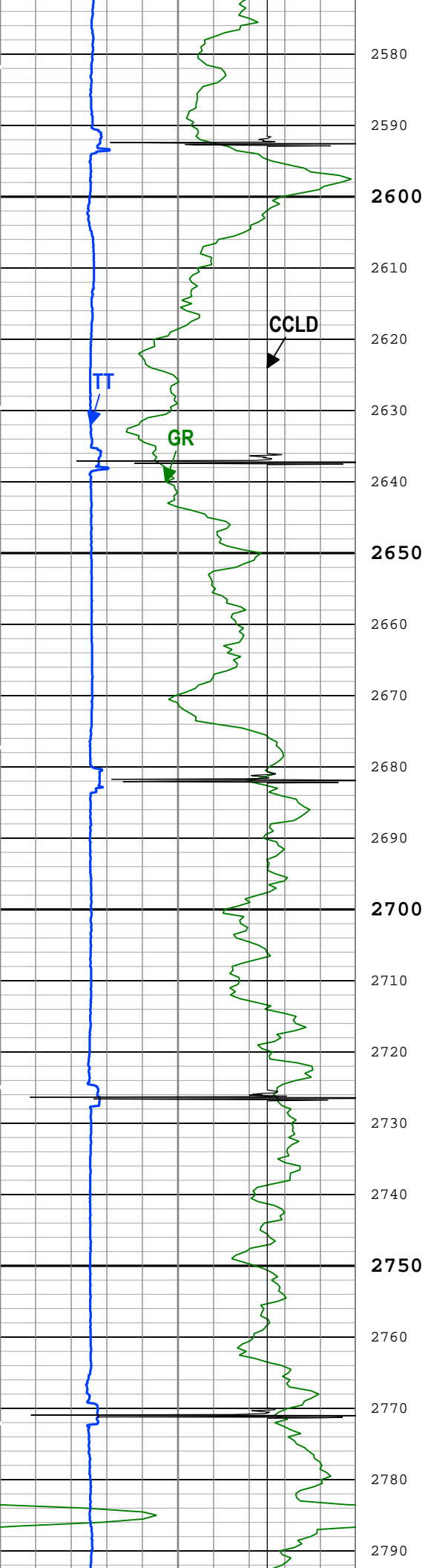
Log	Company:Caerus Operating LLC	Well:Puckett 15A-23 697
		ONE: Log[3]:Up:S008

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 10:42:59

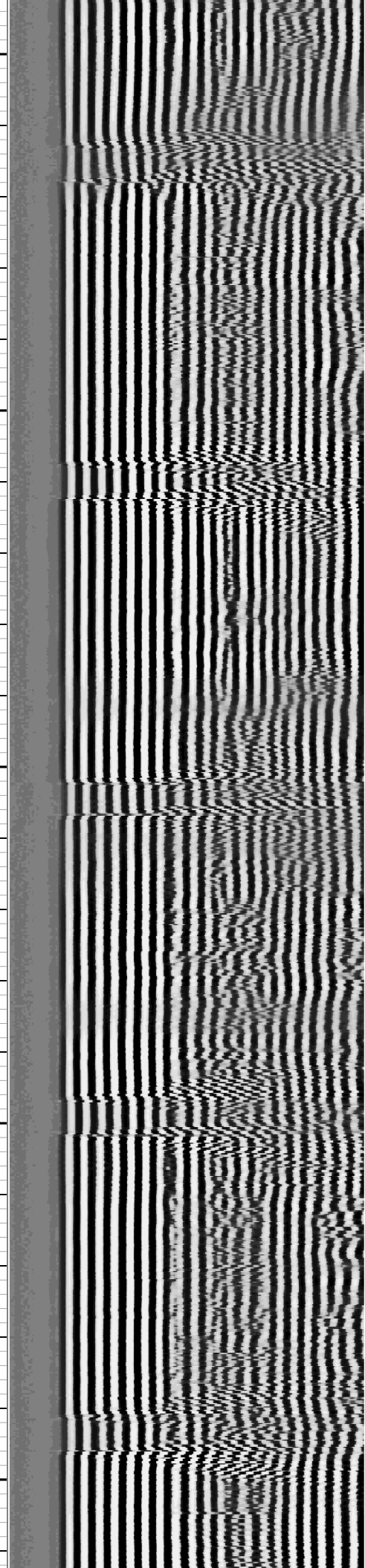
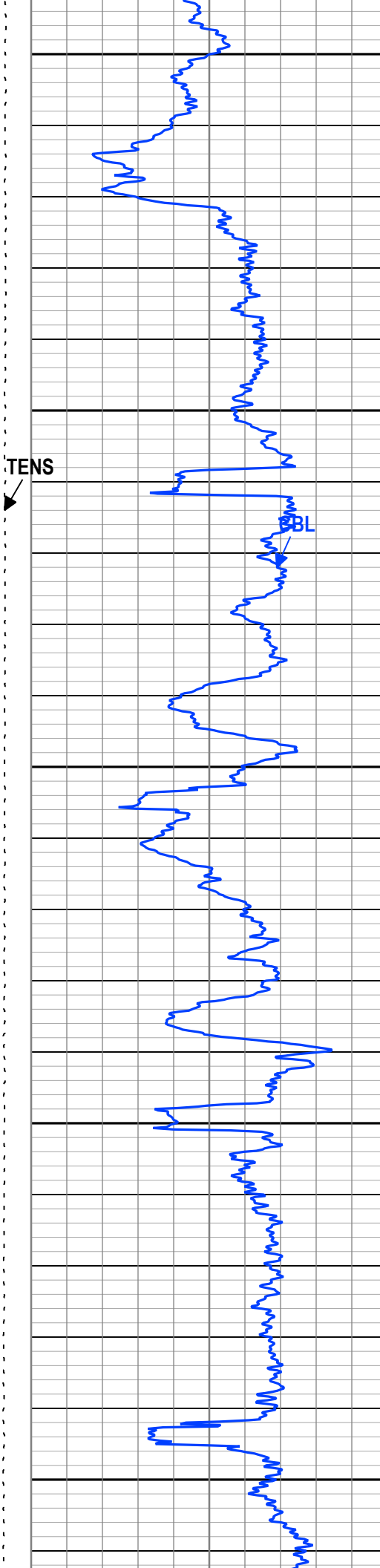
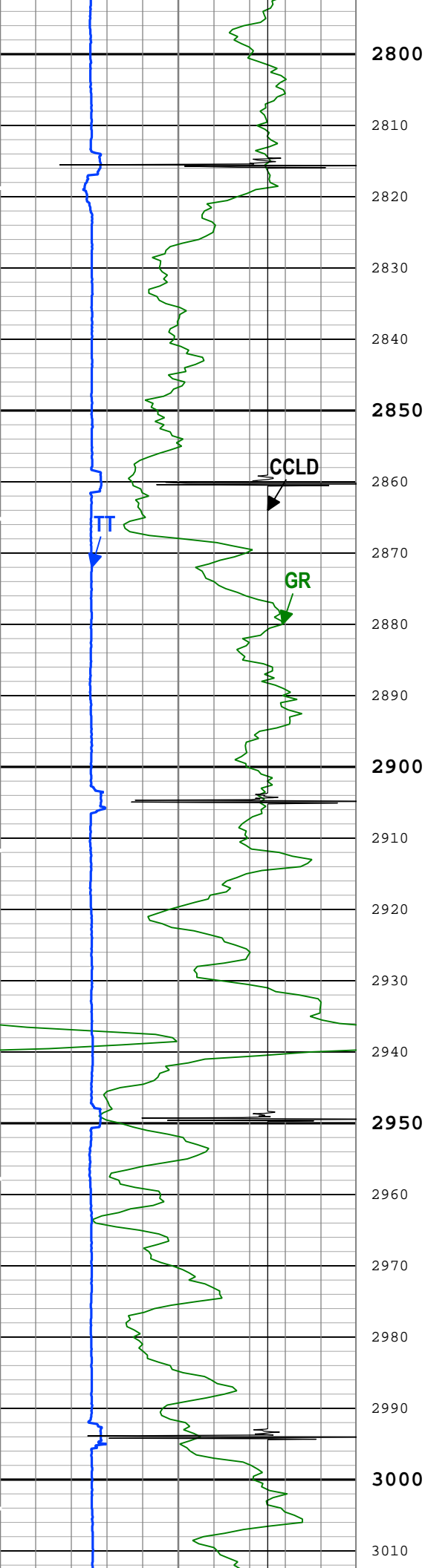
TIME\_1900 - Time Marked every 60.00 (s)



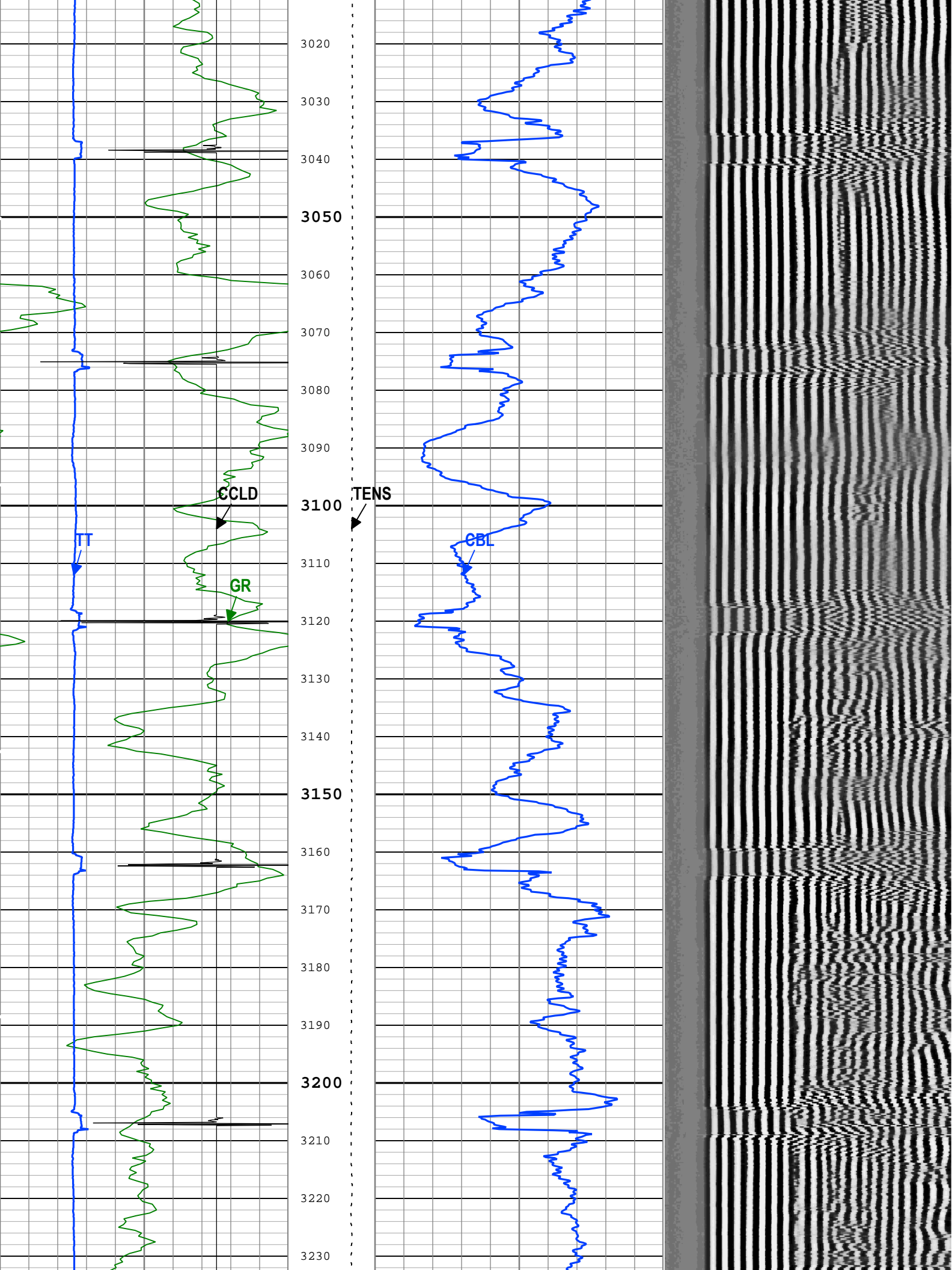


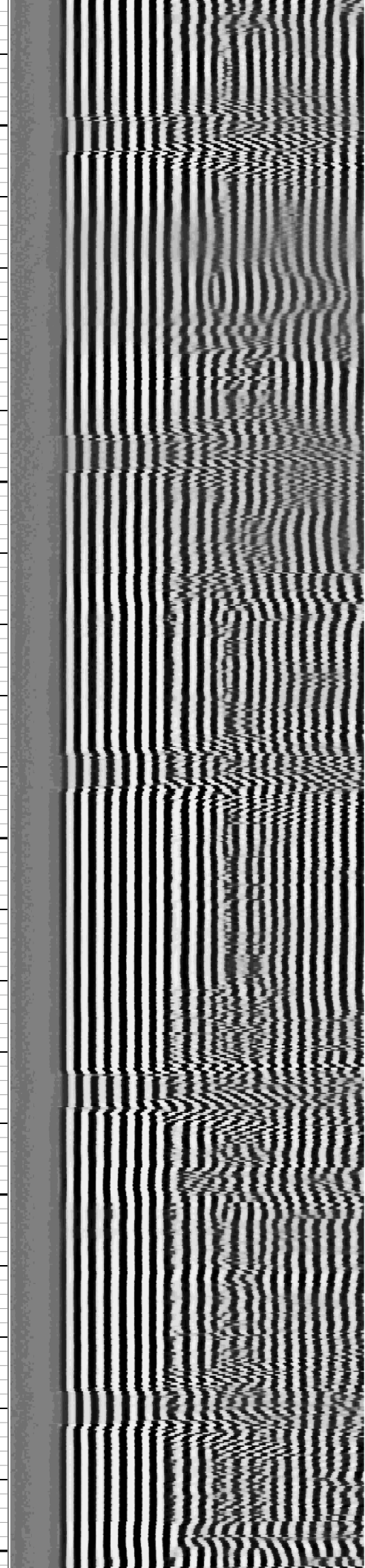
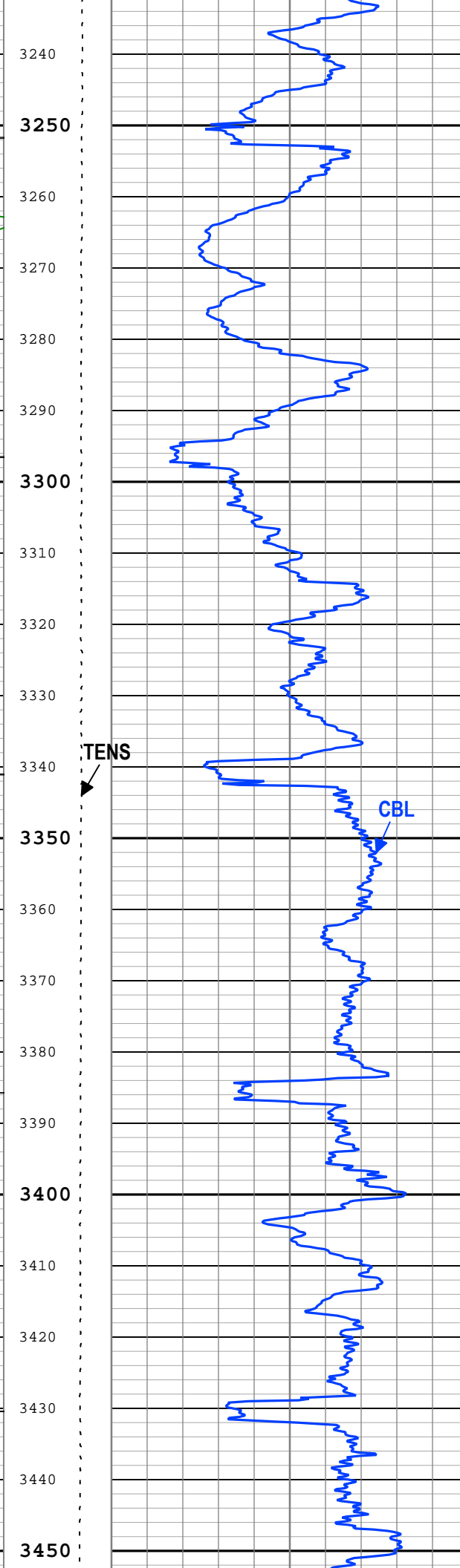
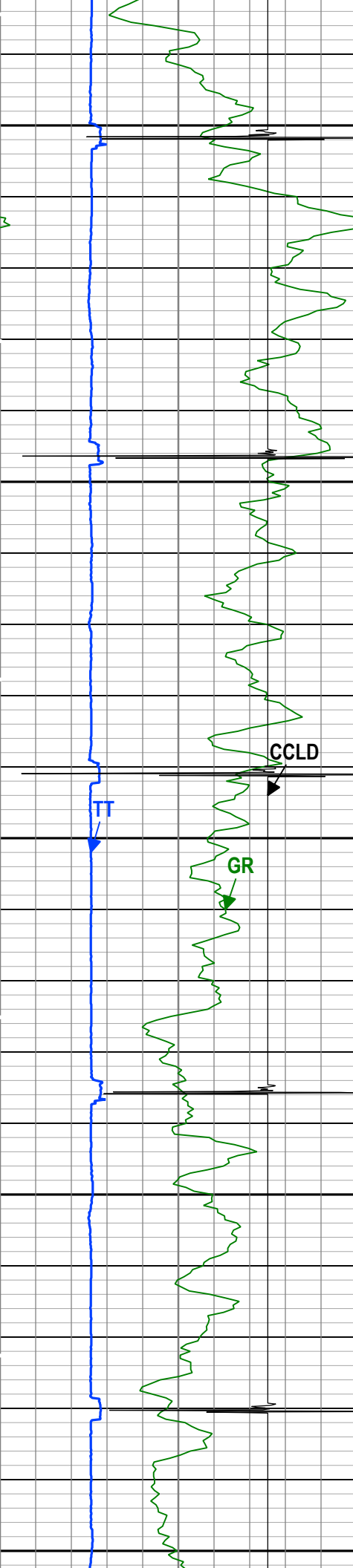


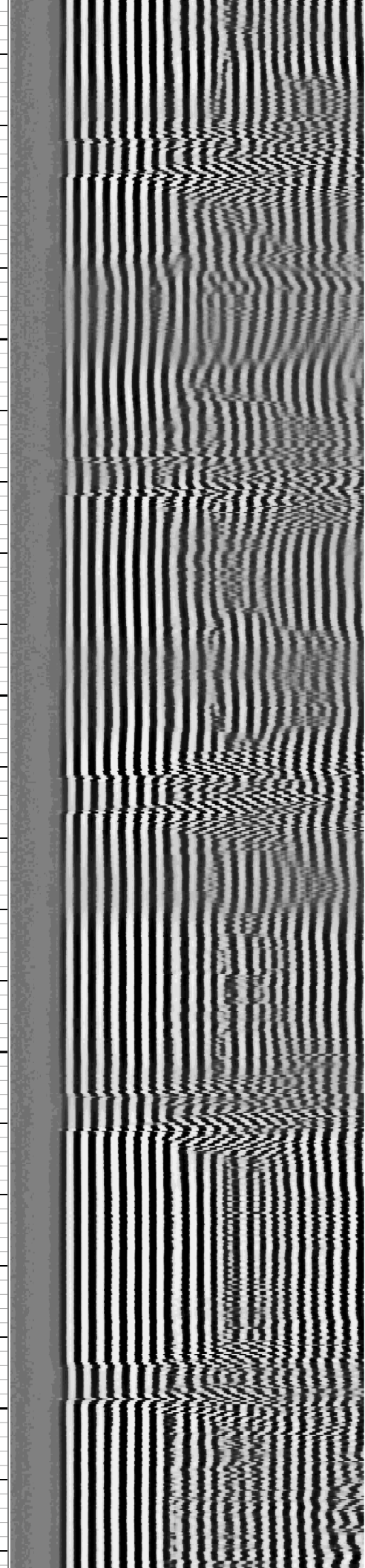
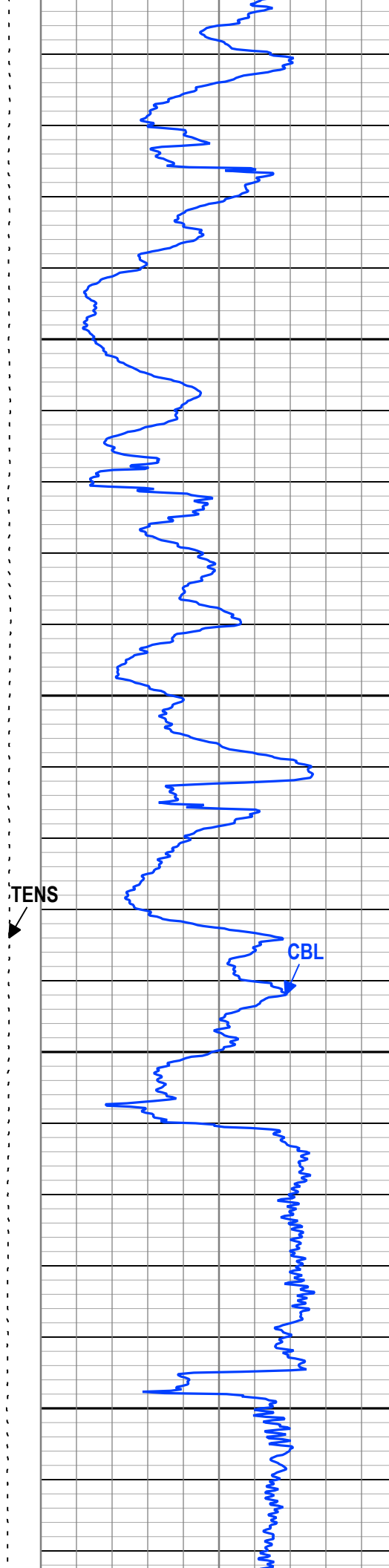
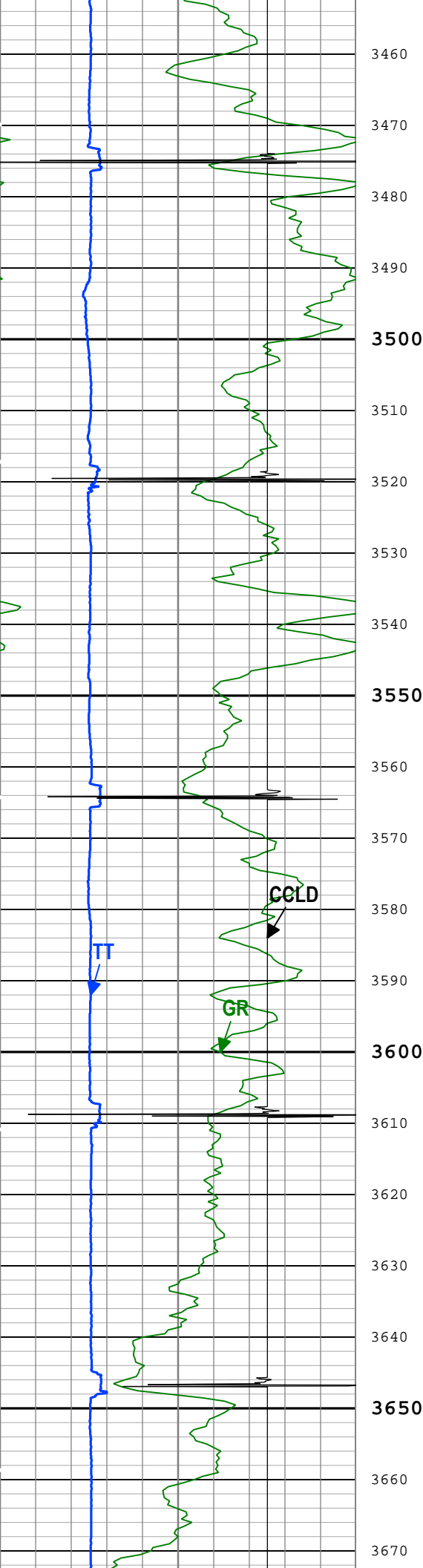




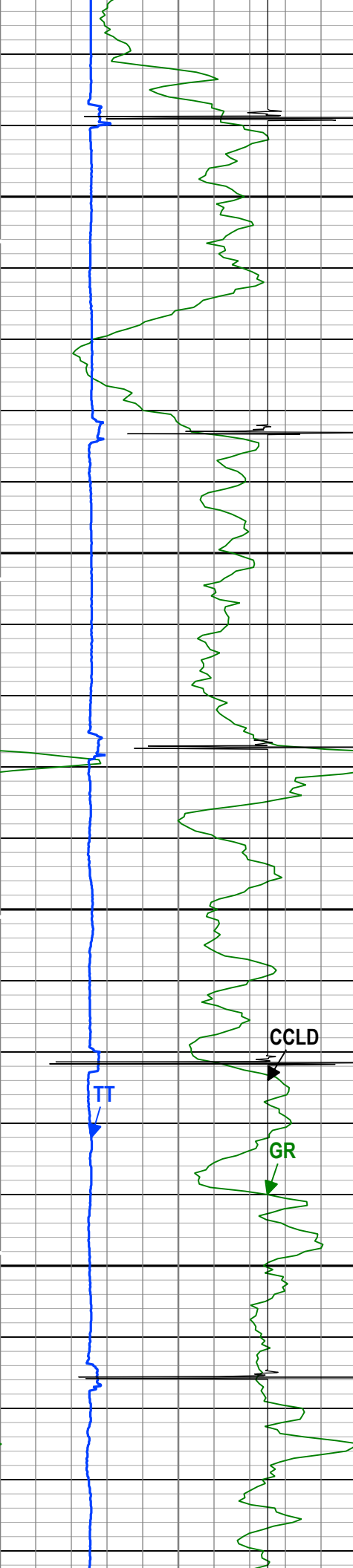












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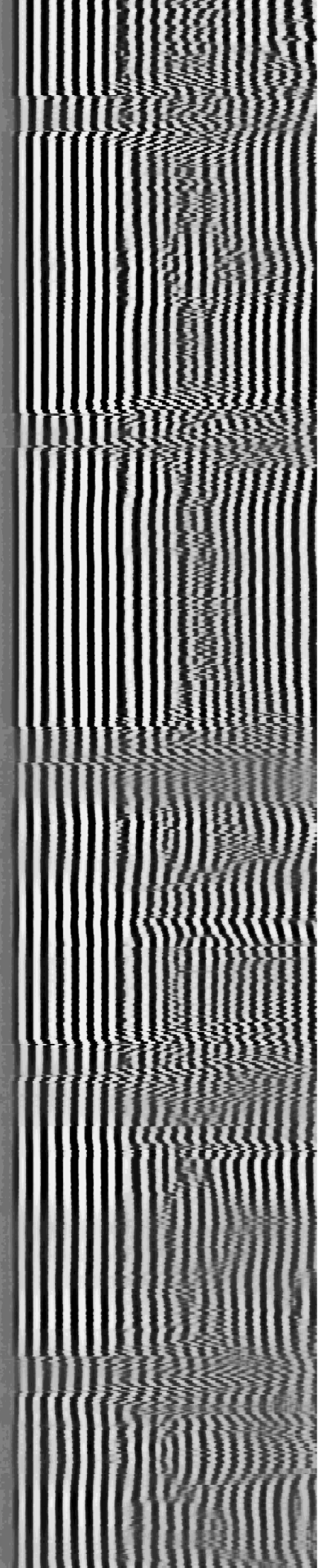
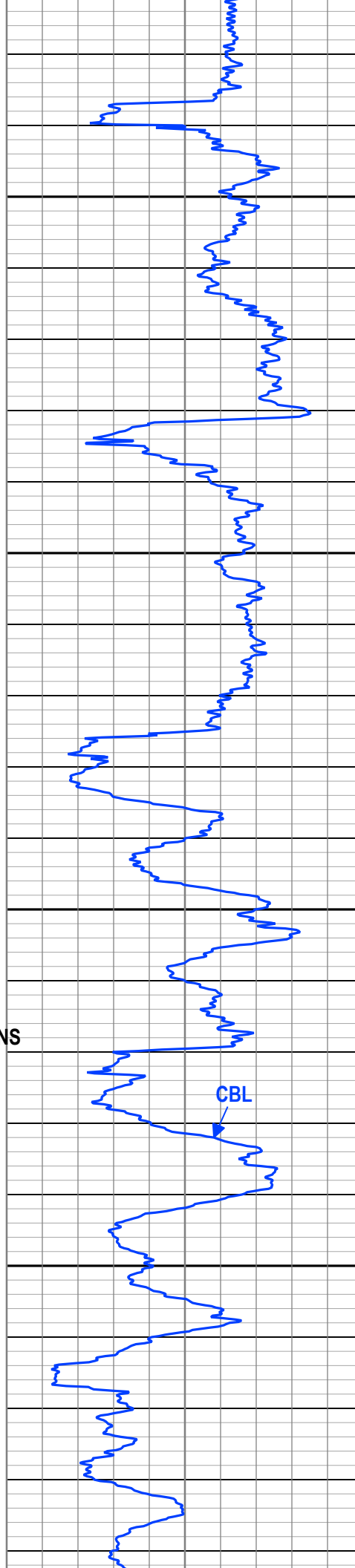
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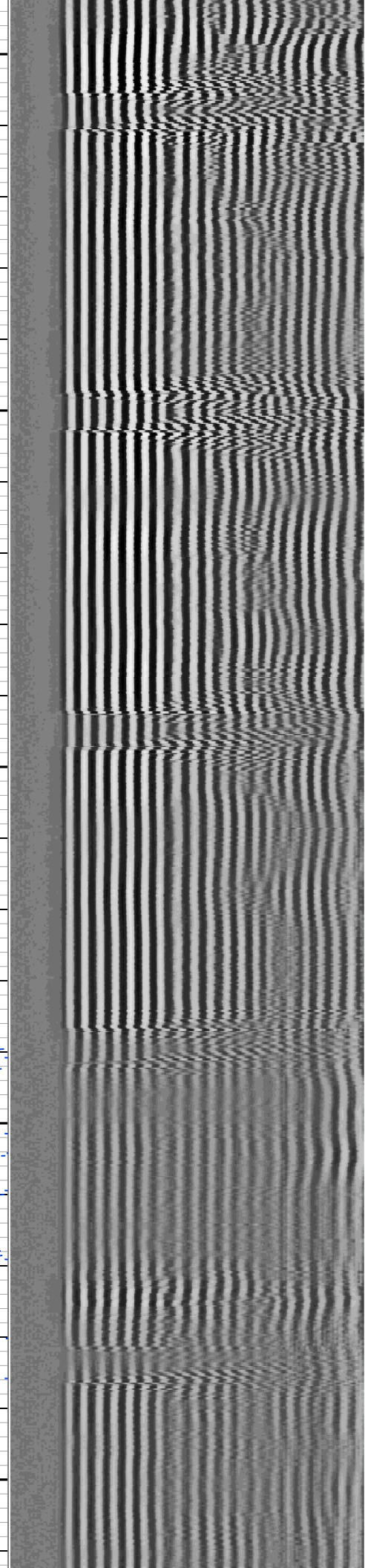
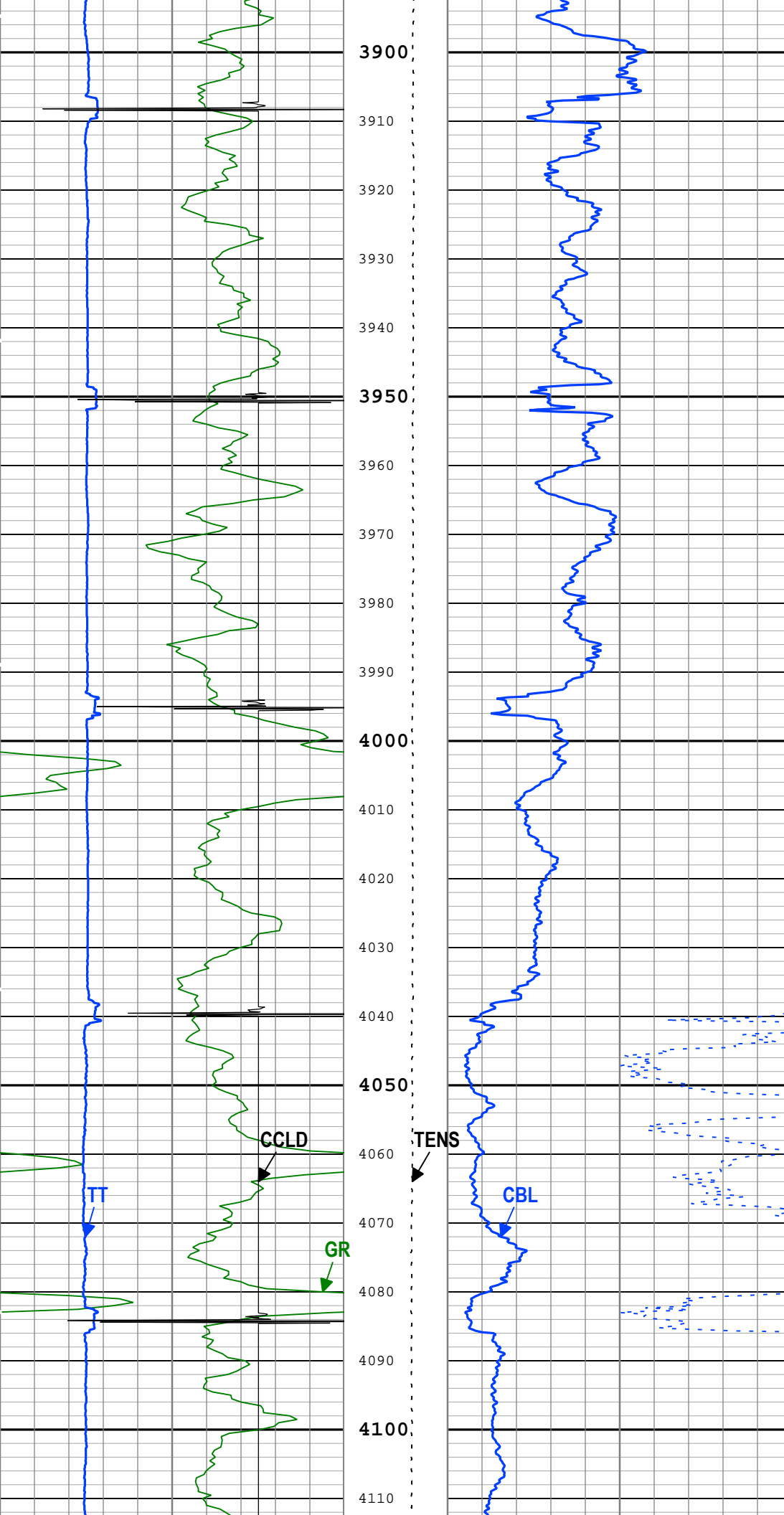
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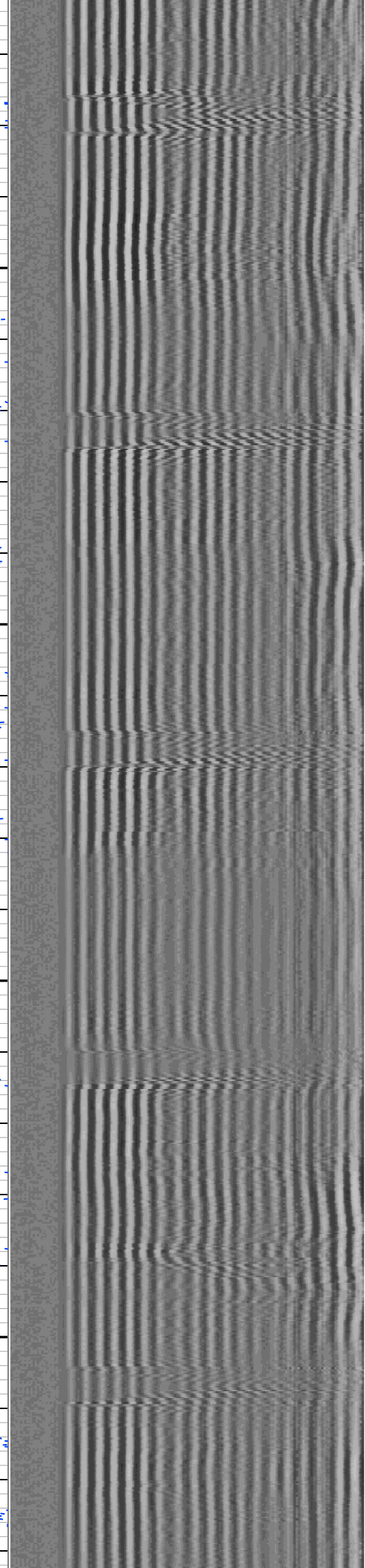
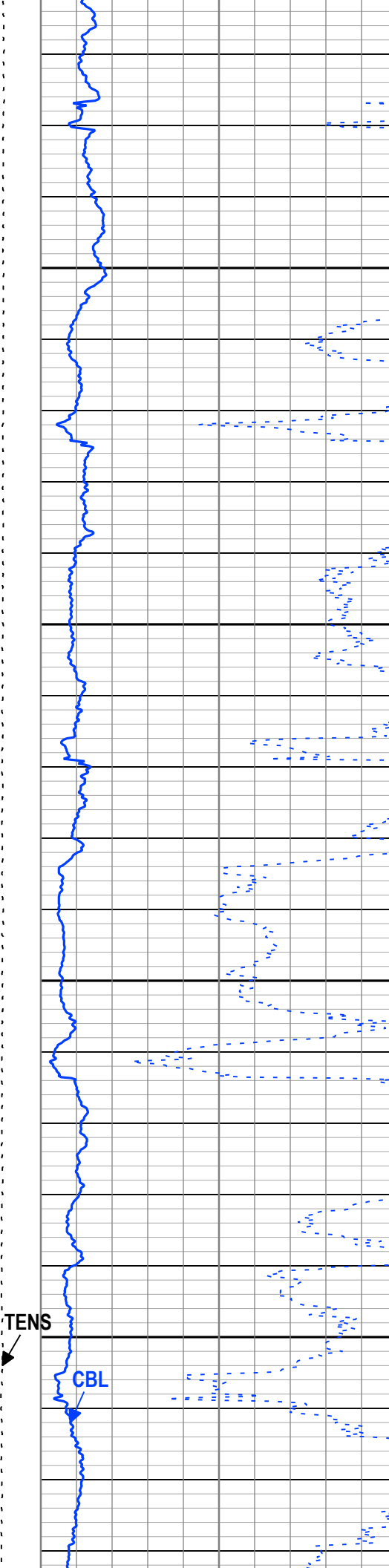
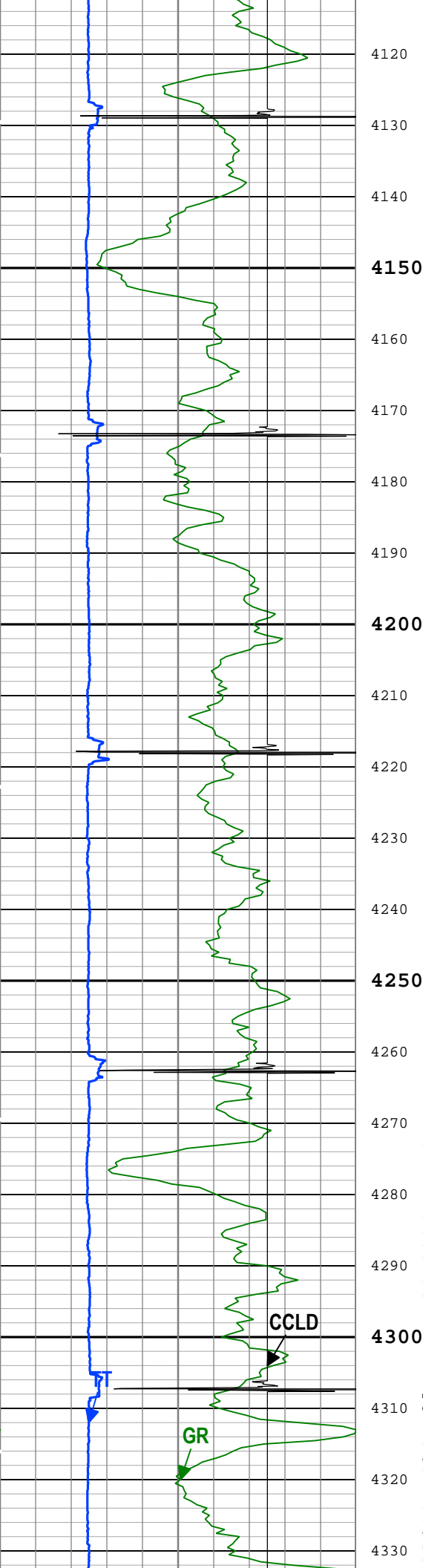
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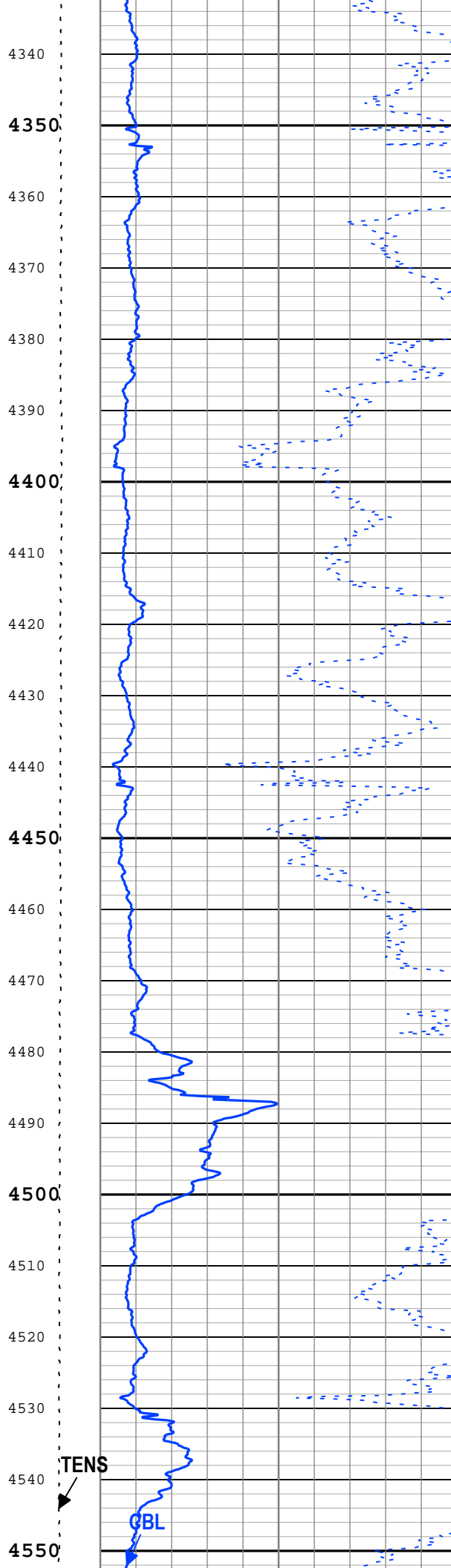
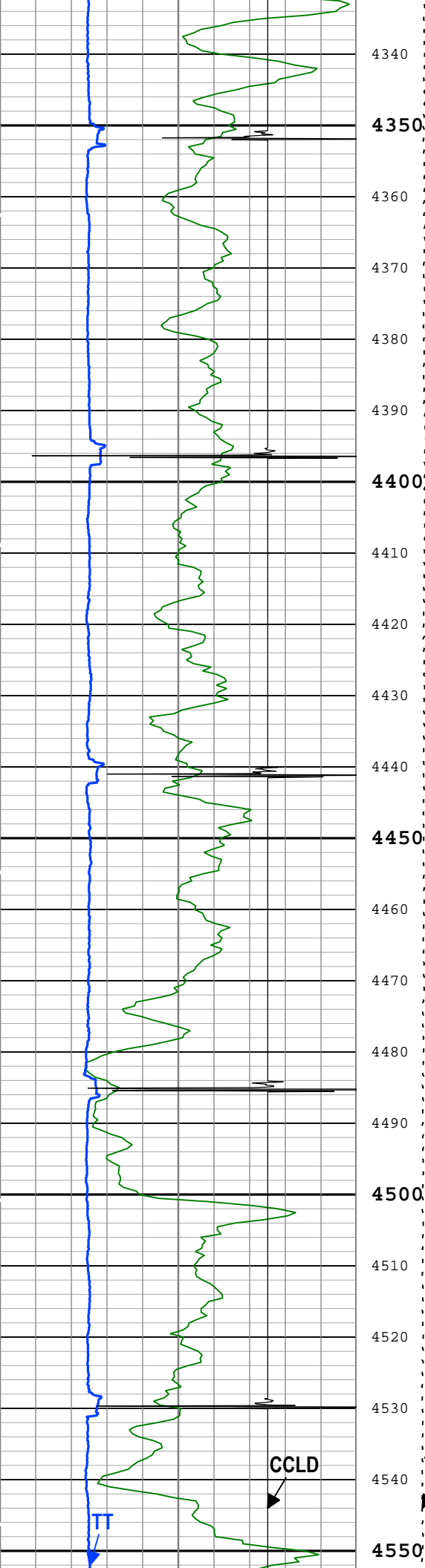
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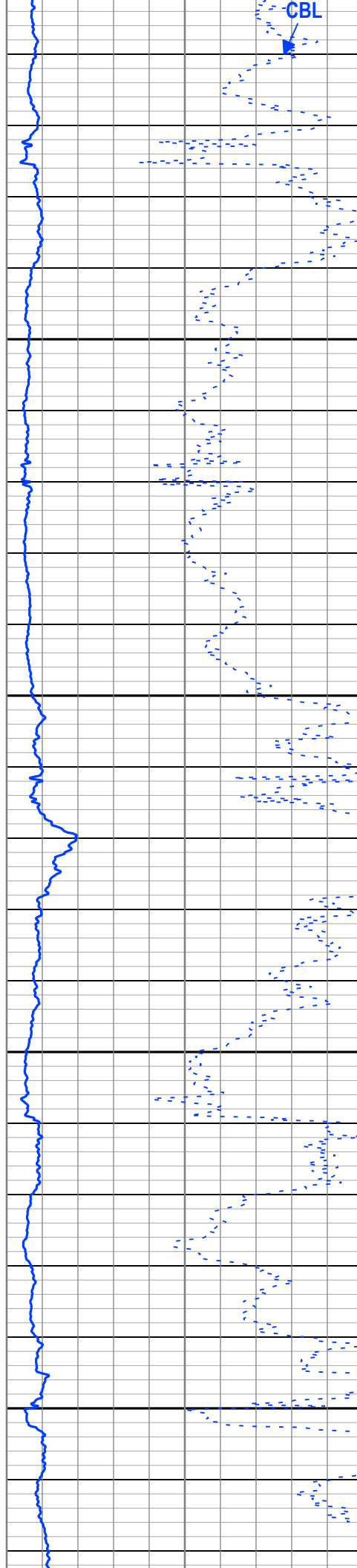
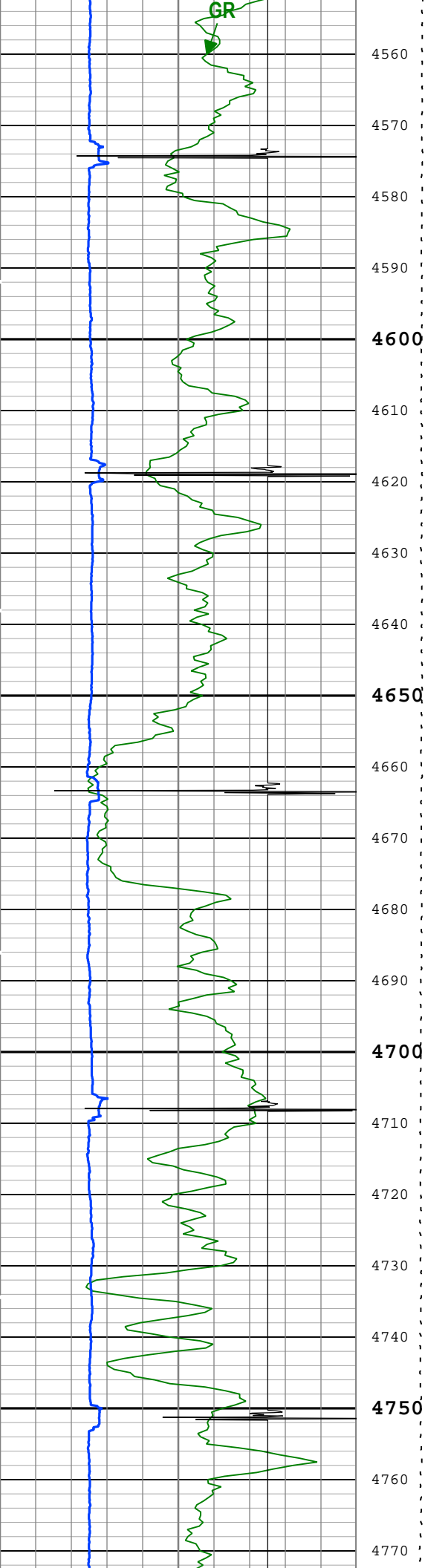


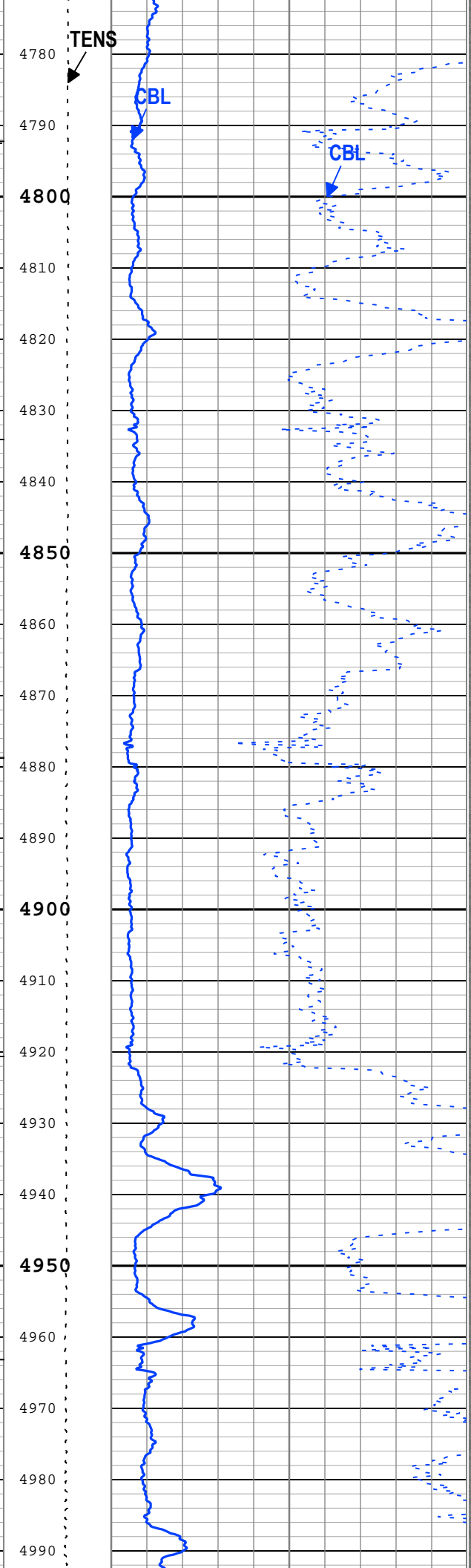
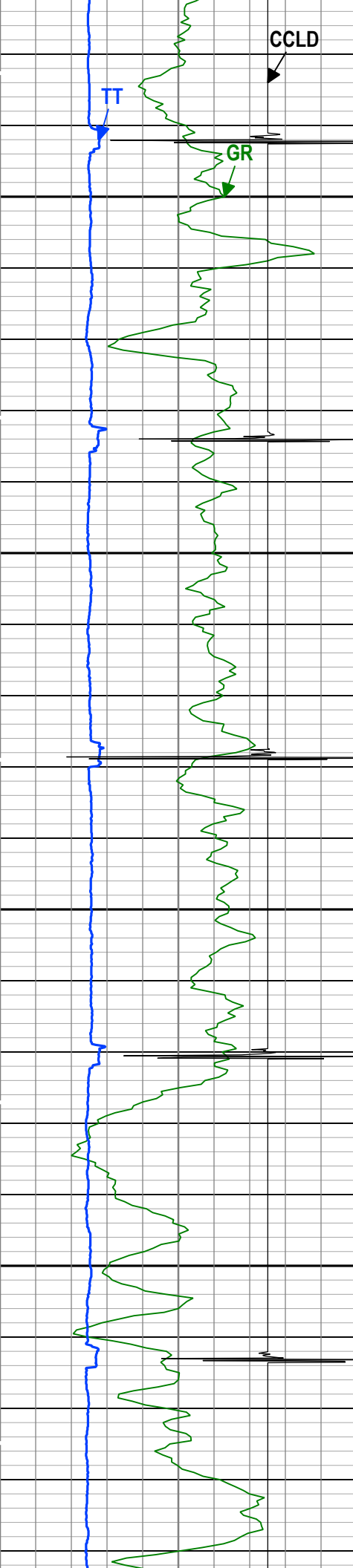


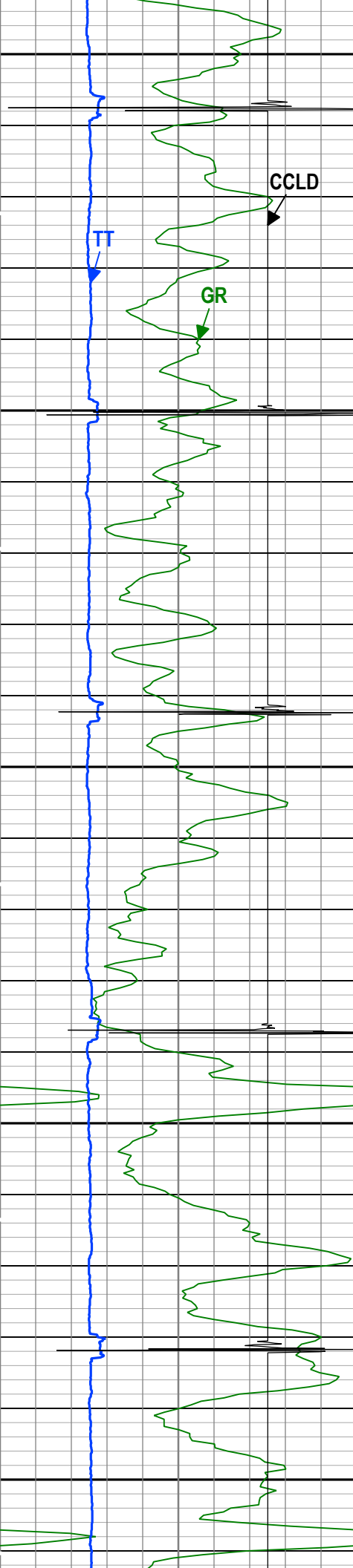












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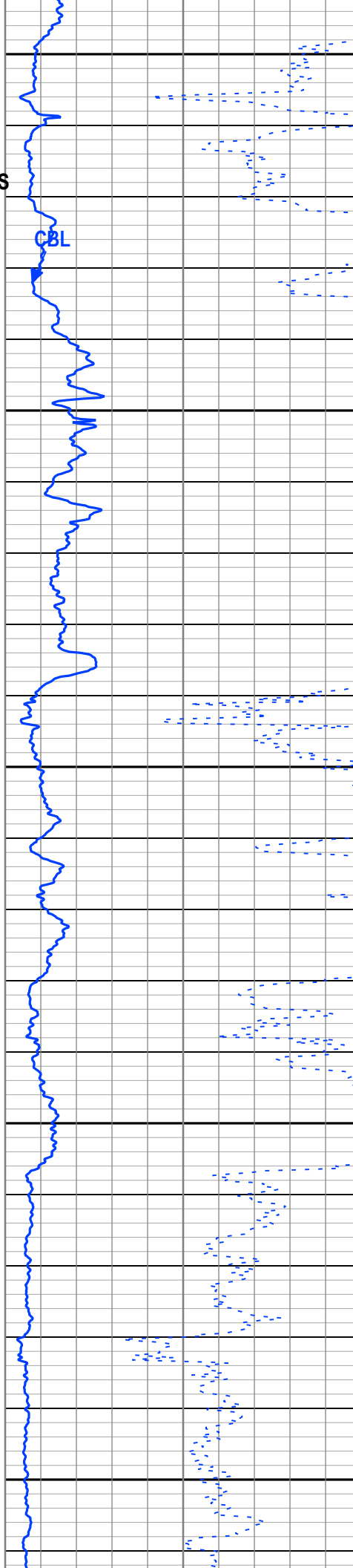
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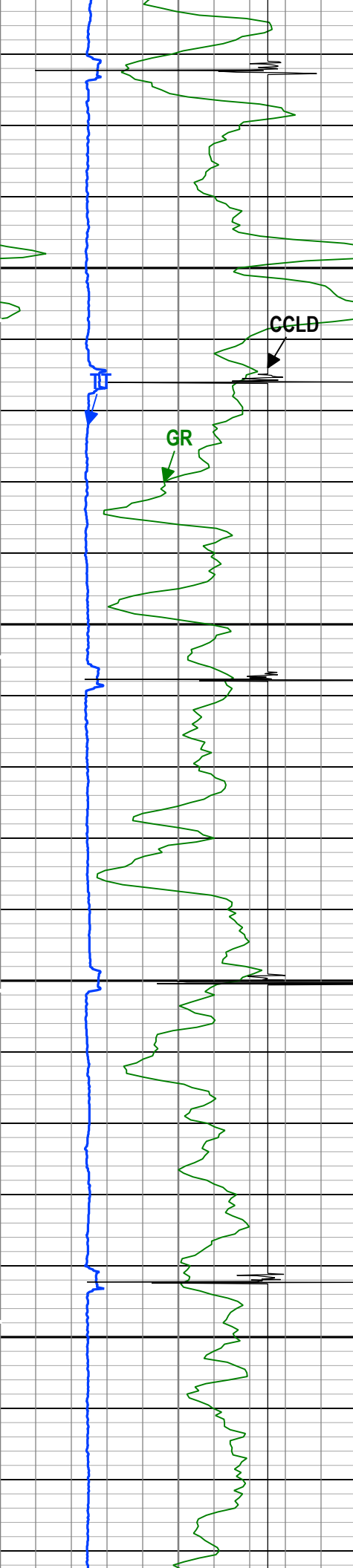
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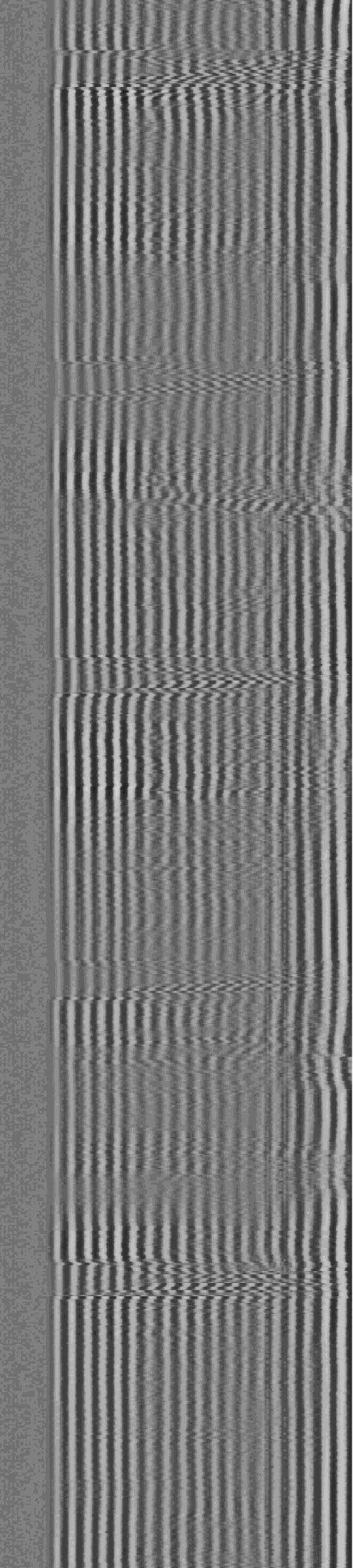
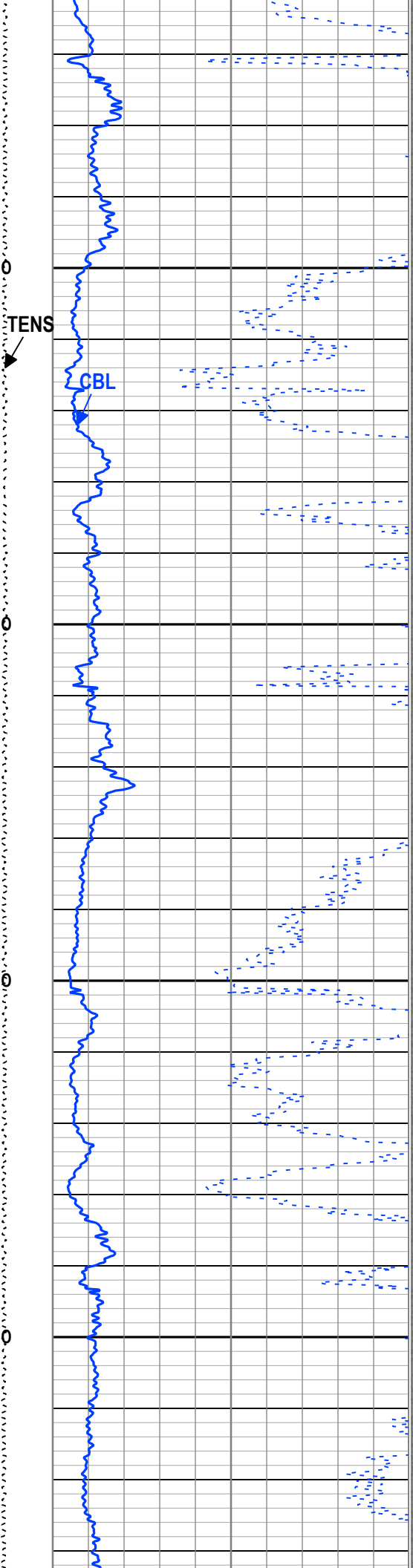
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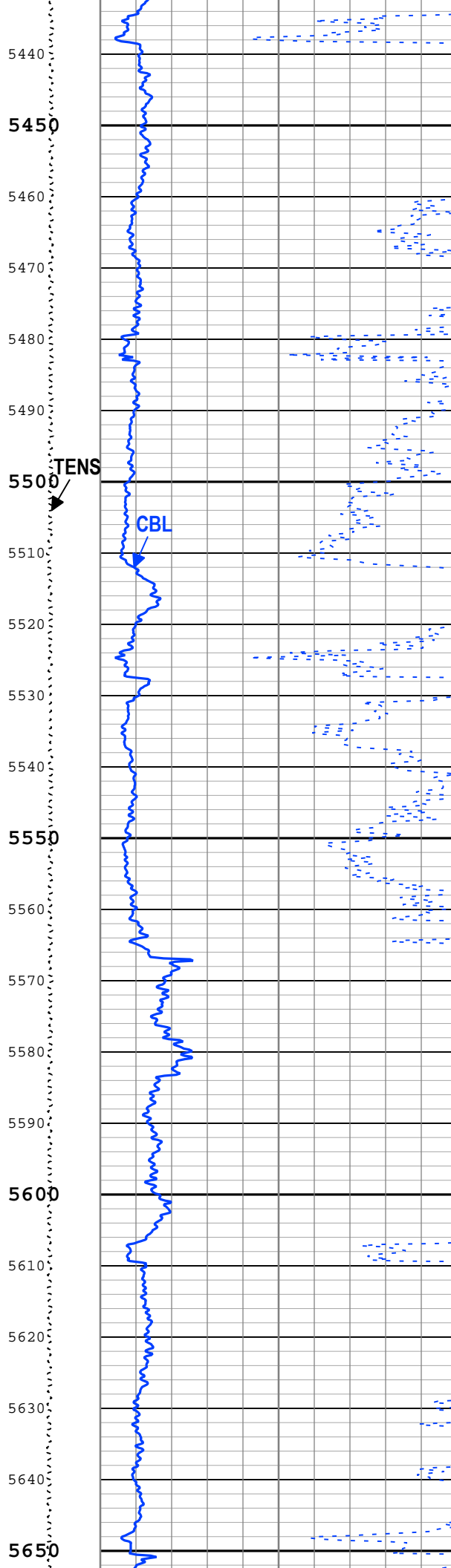
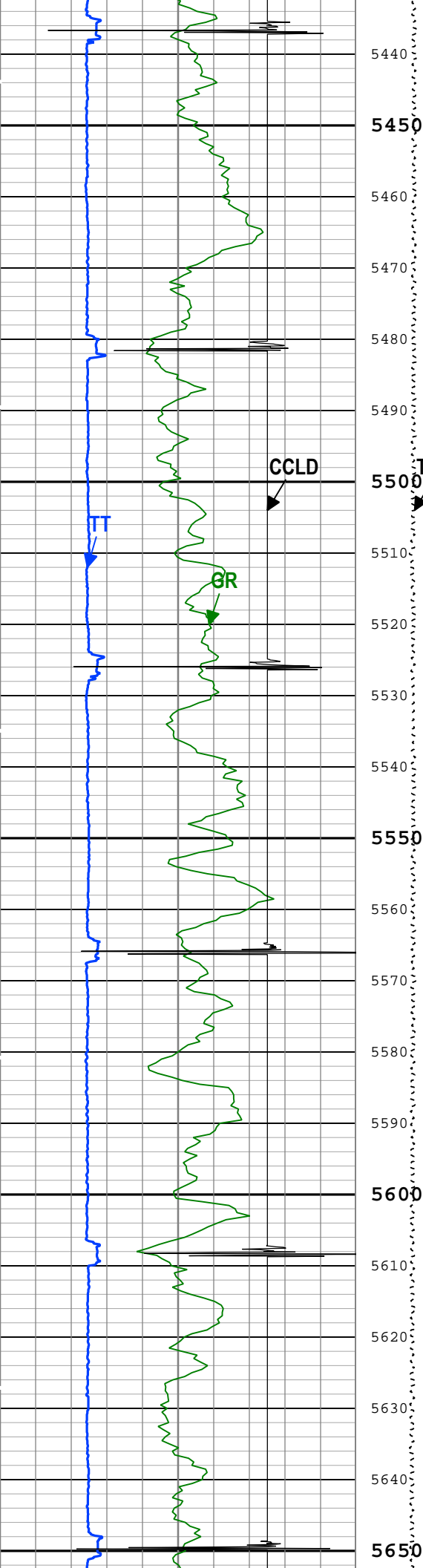




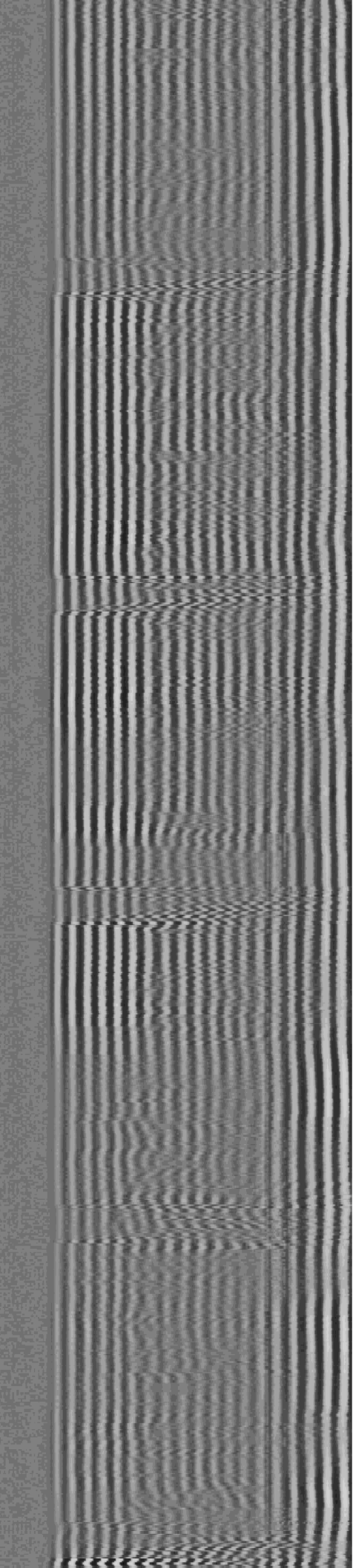
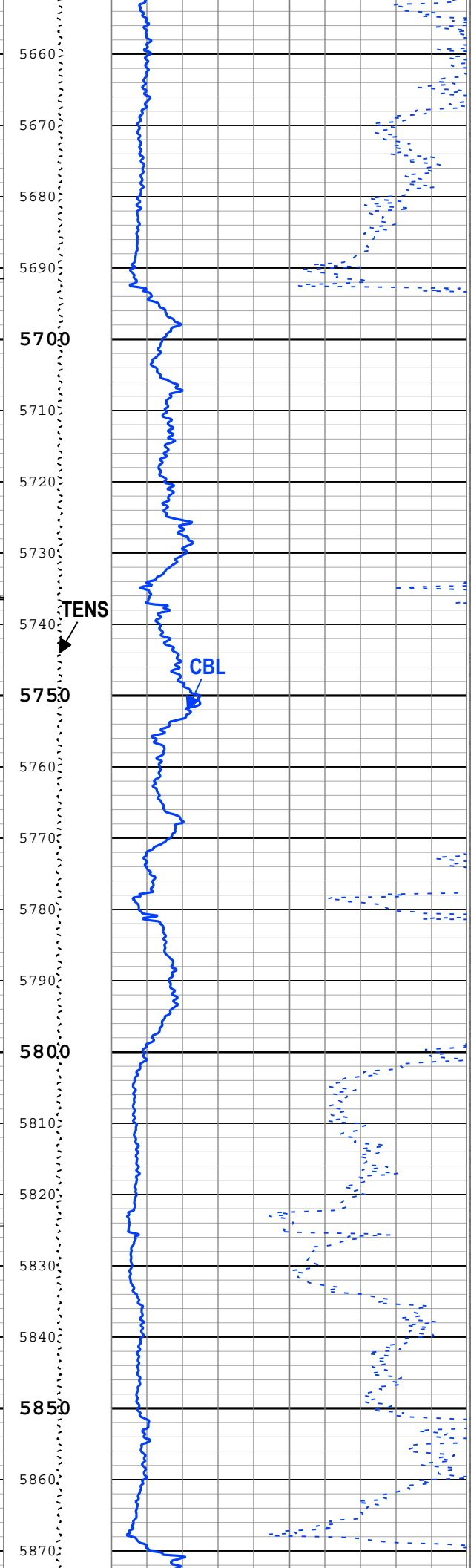
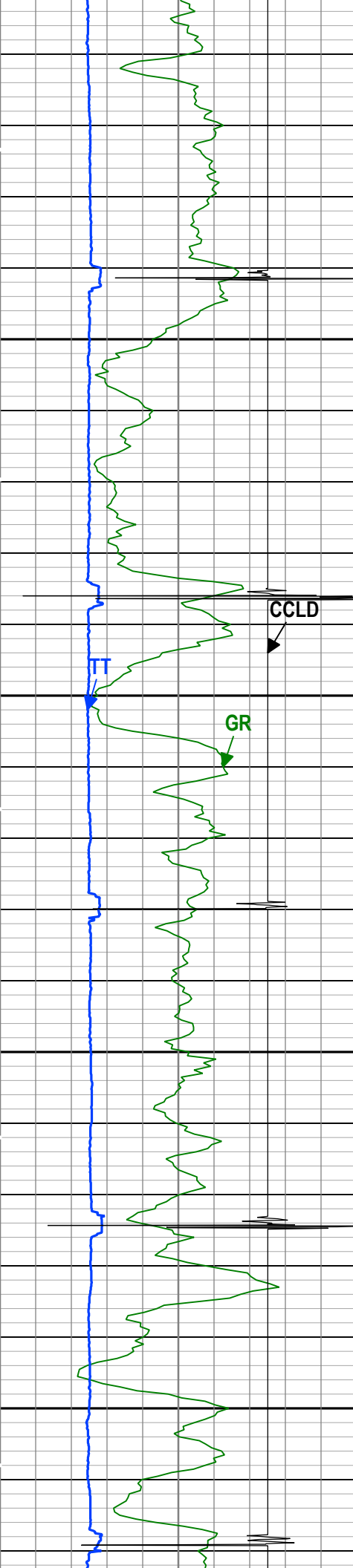


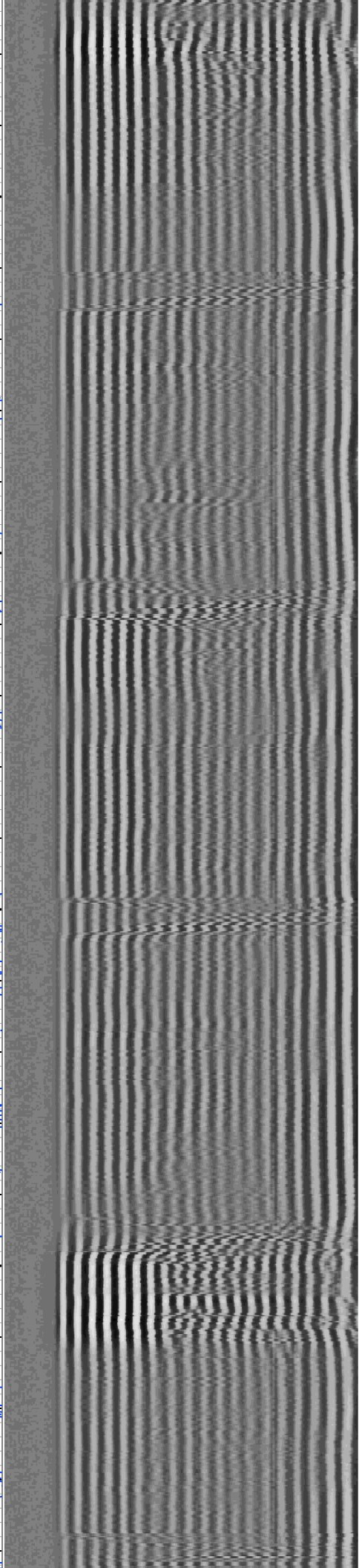
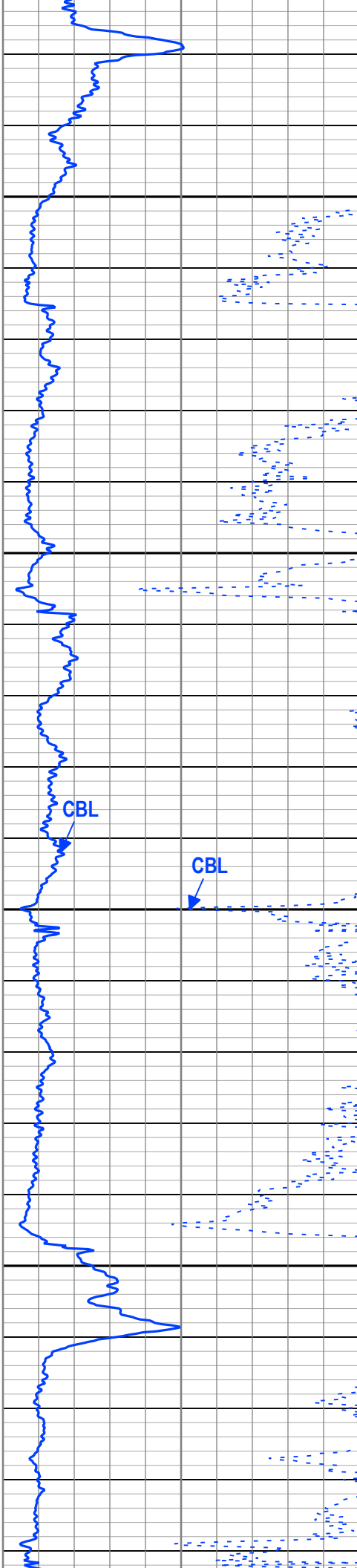
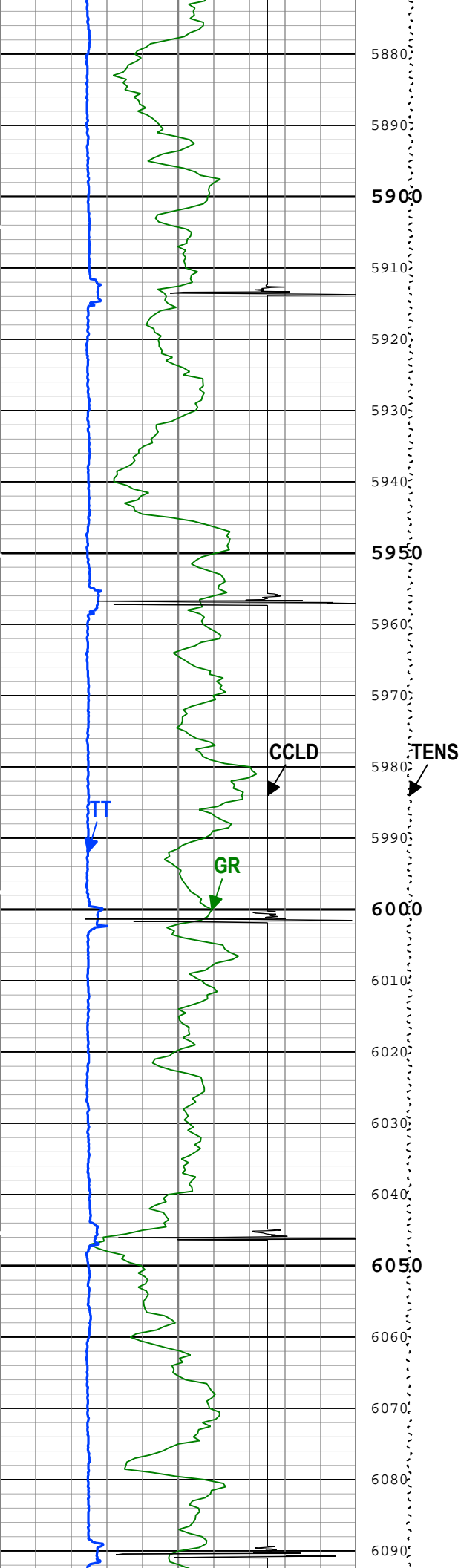
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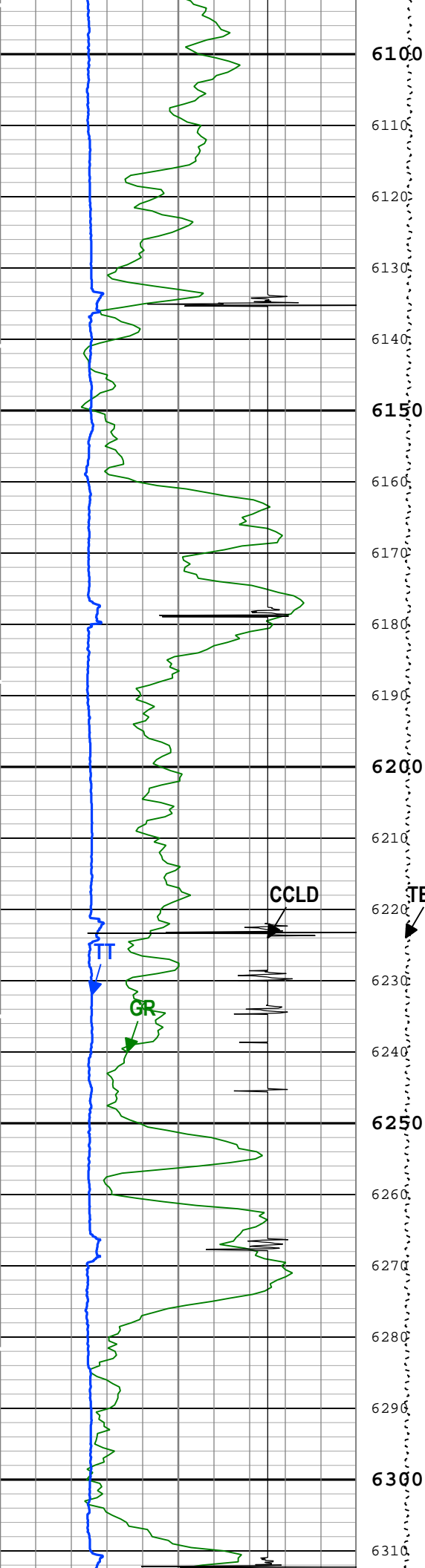












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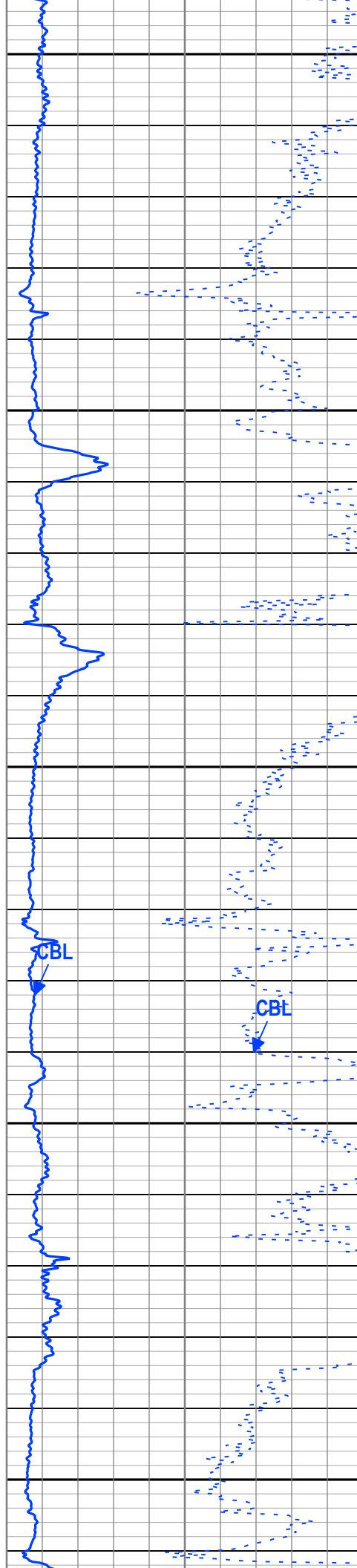
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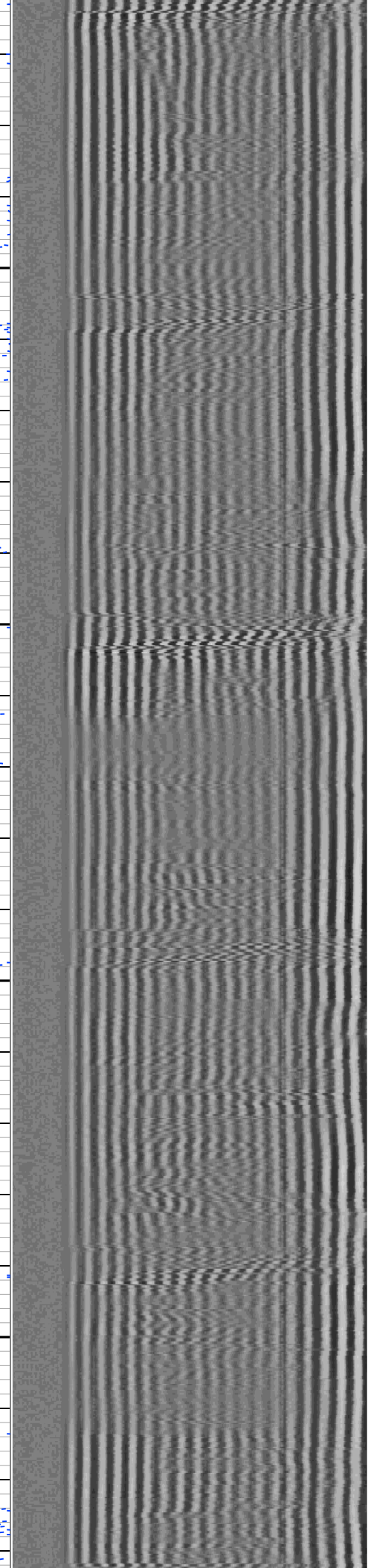
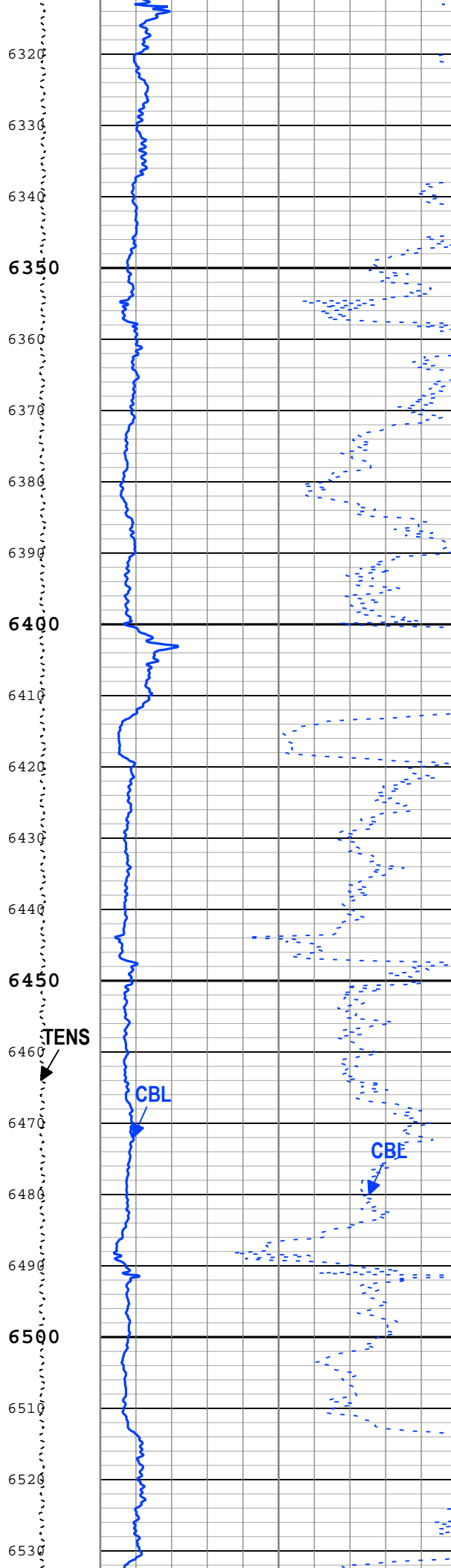
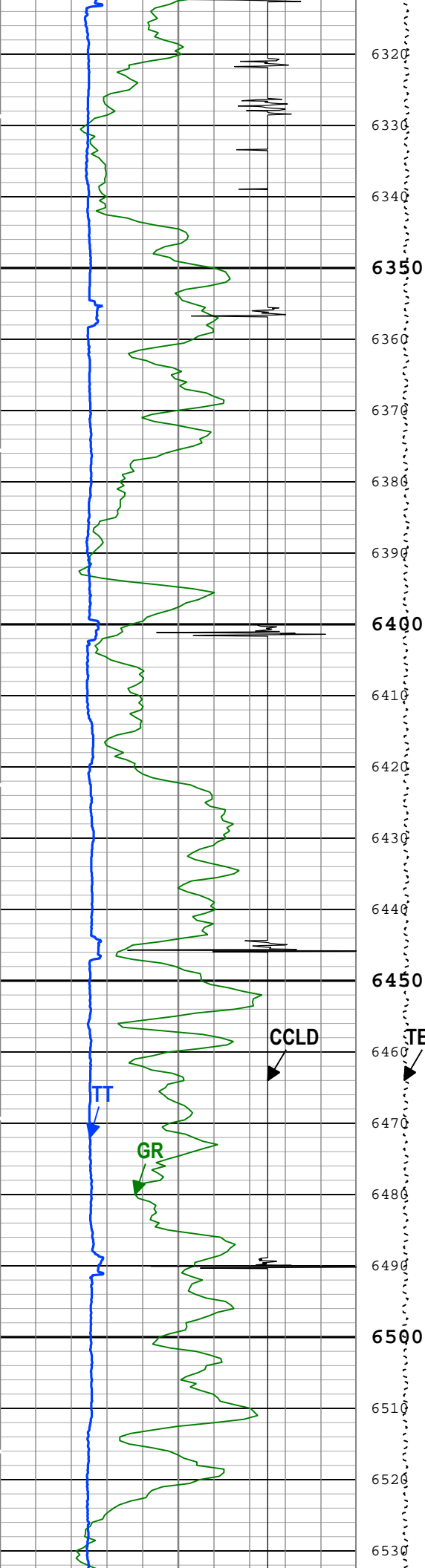
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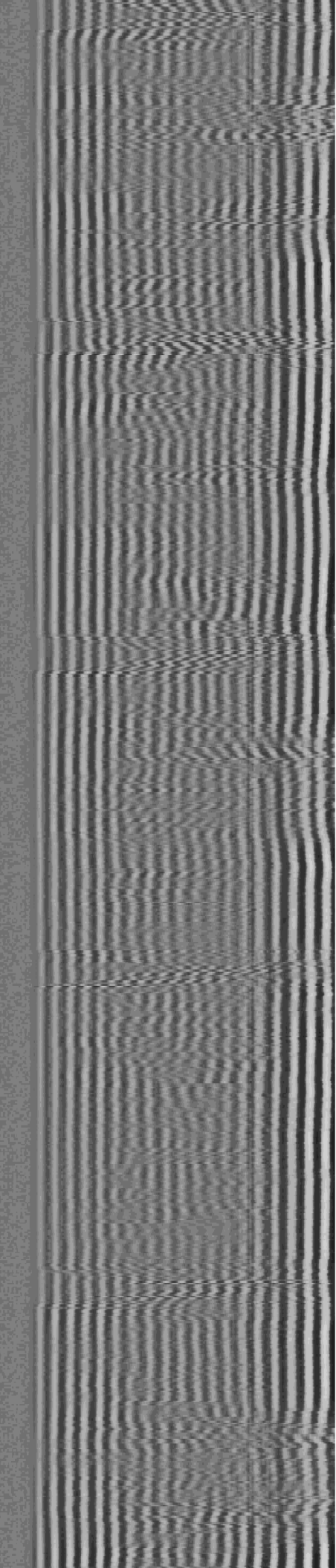
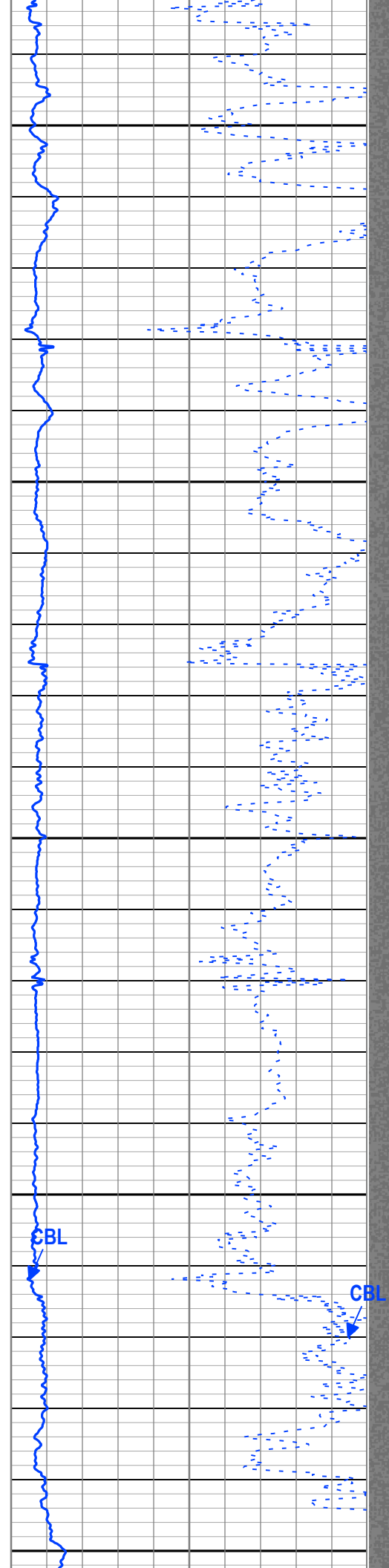
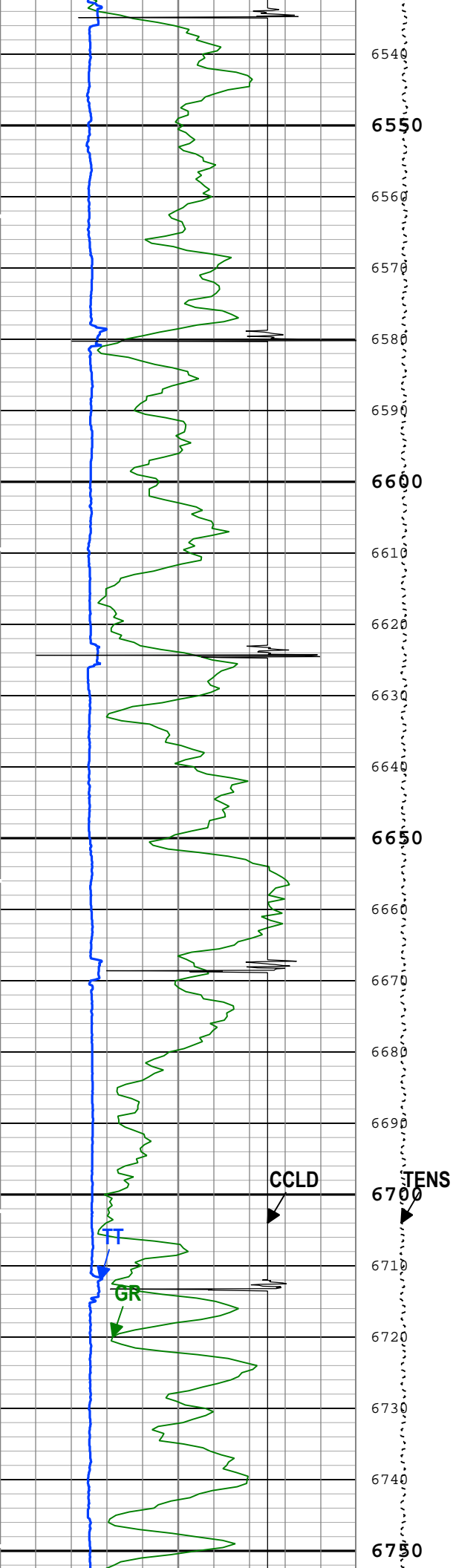


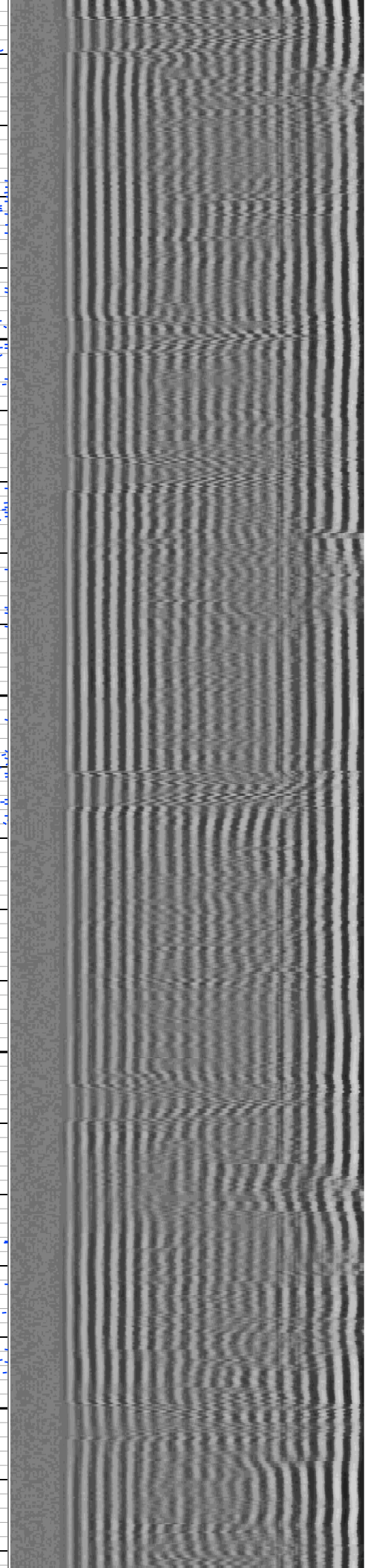
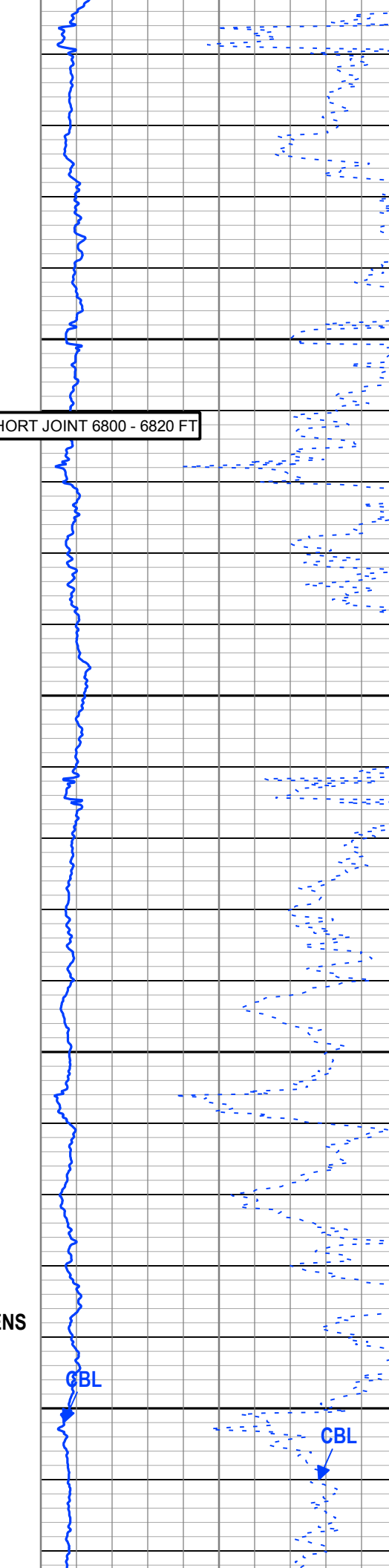
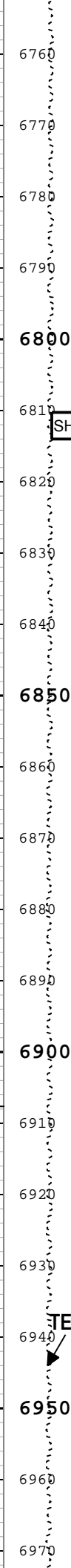
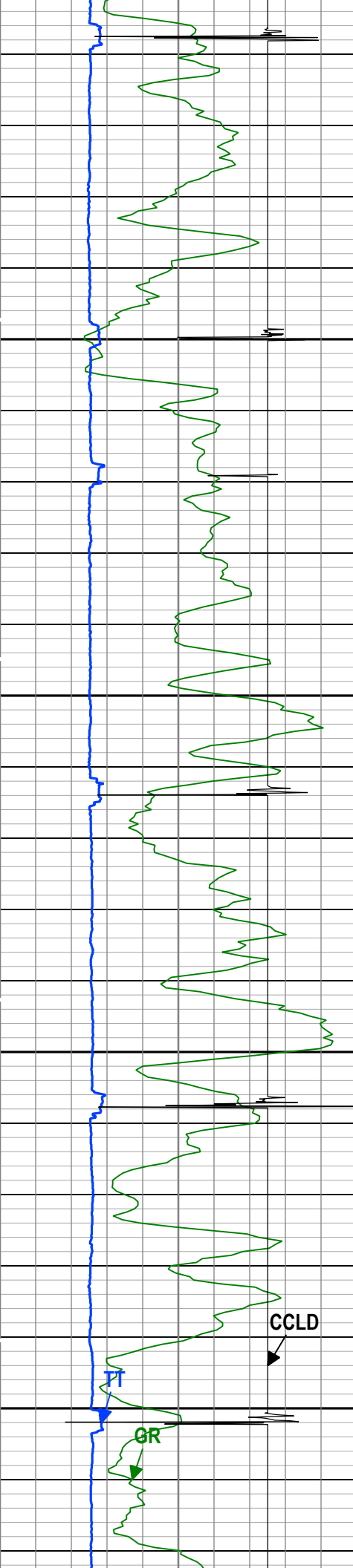
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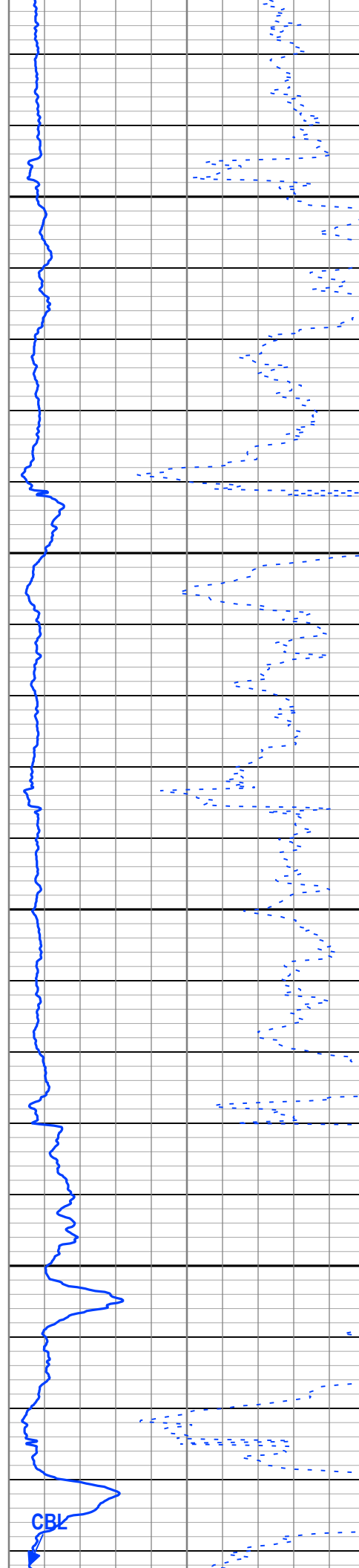
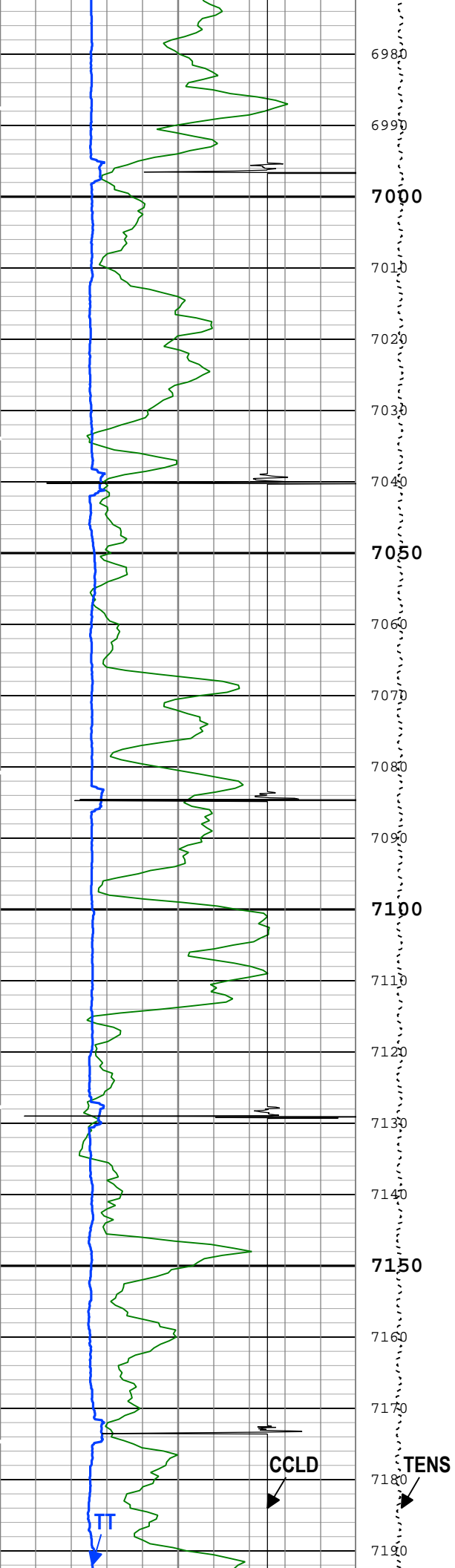


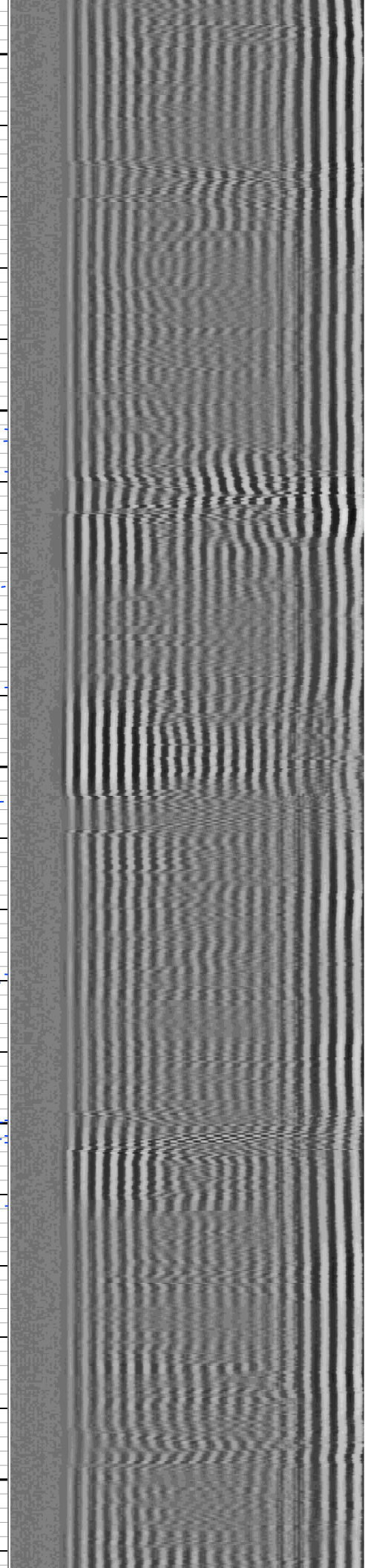
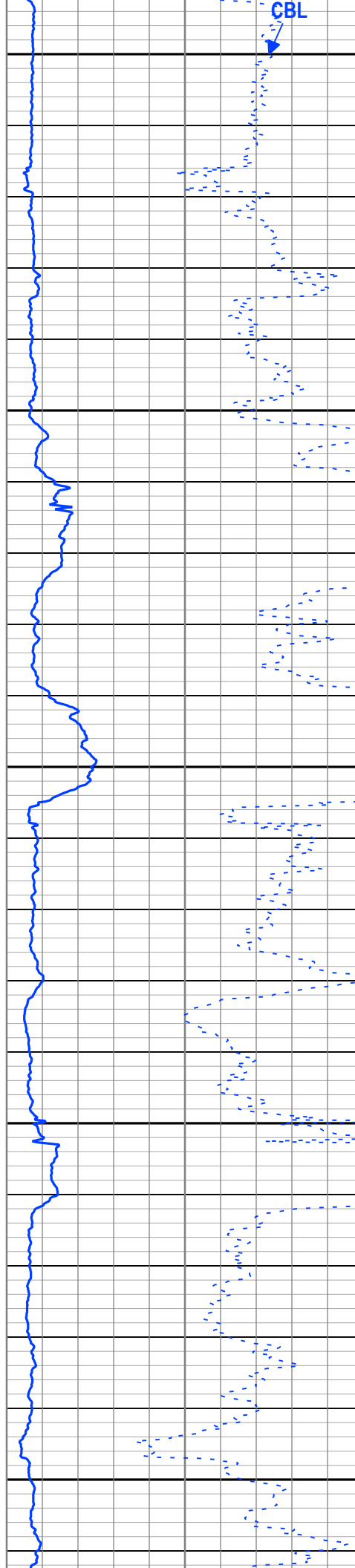
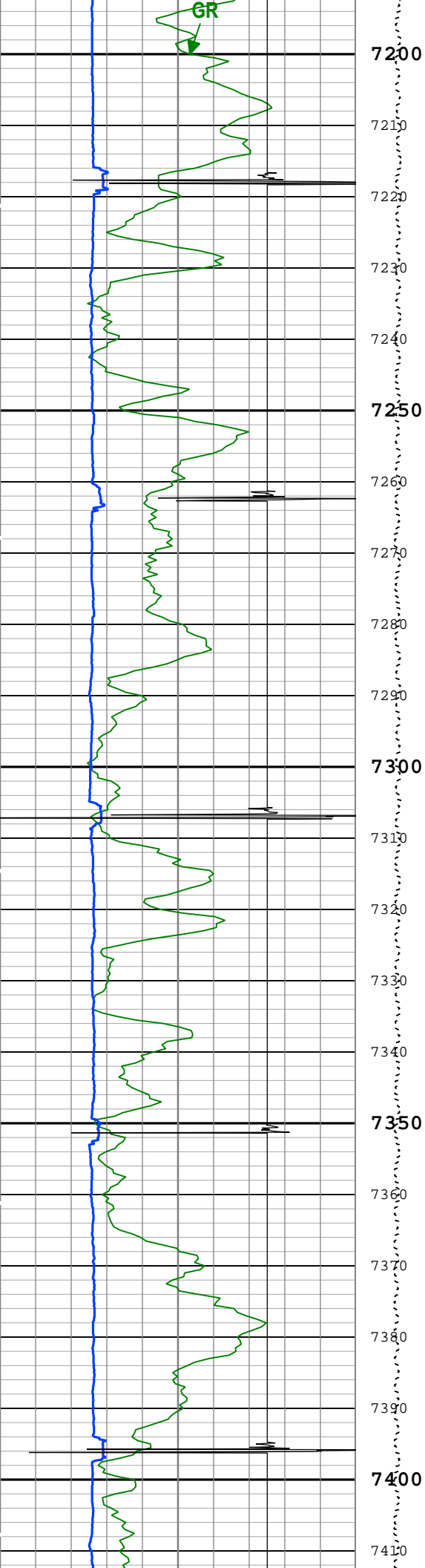


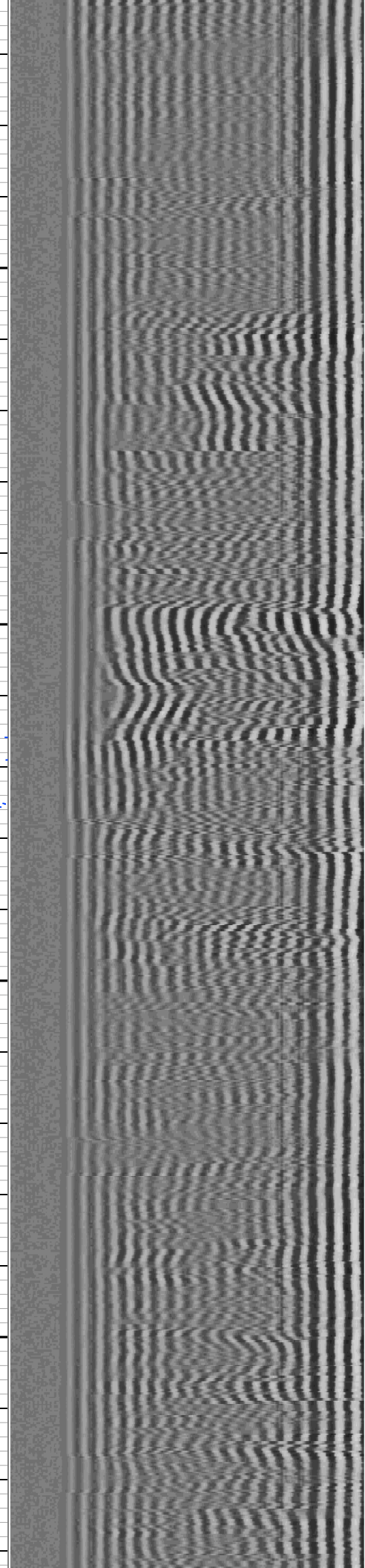
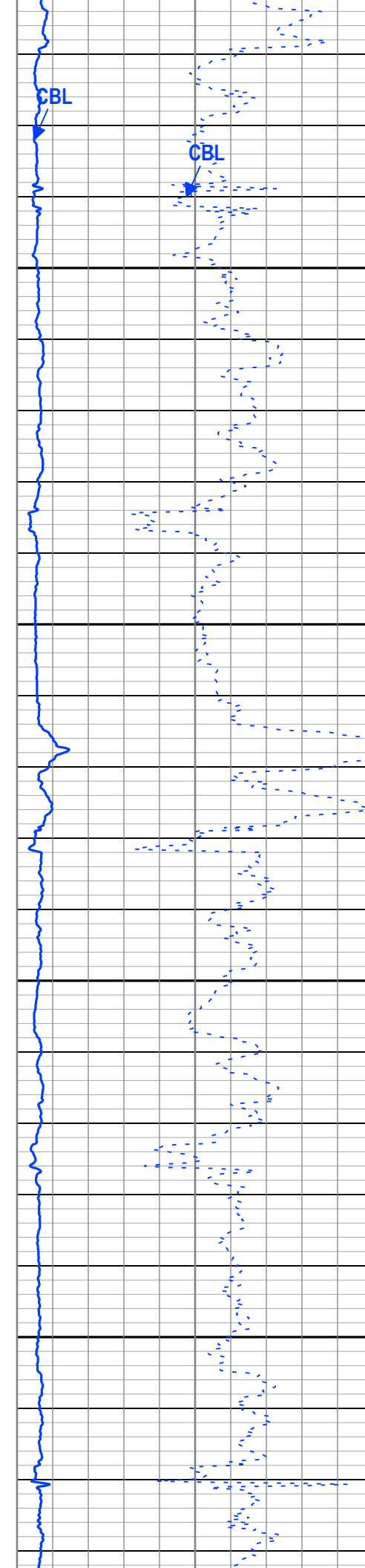
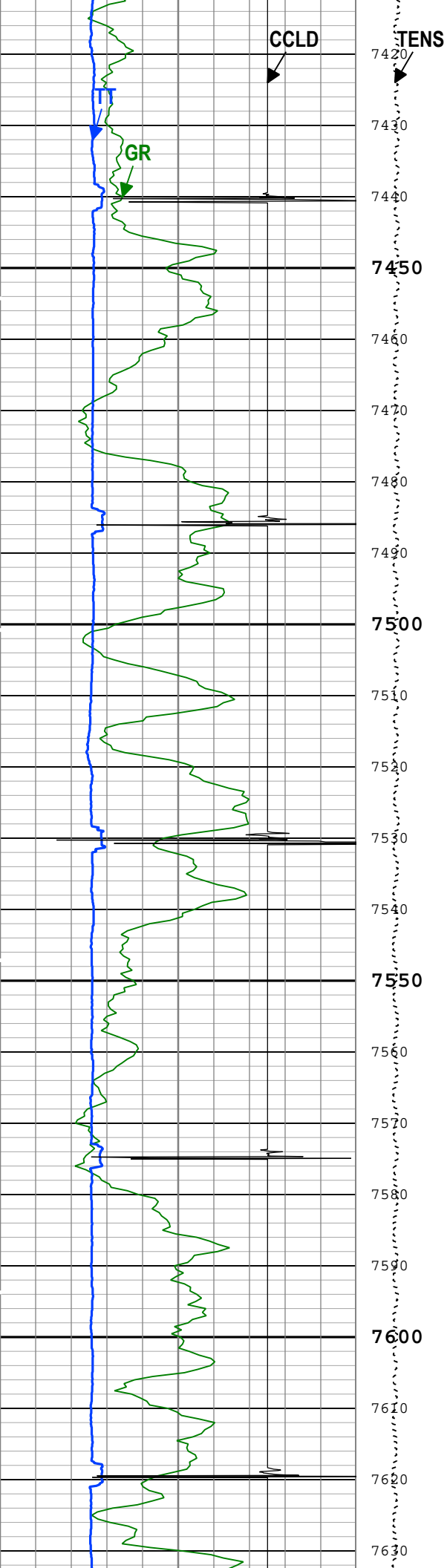


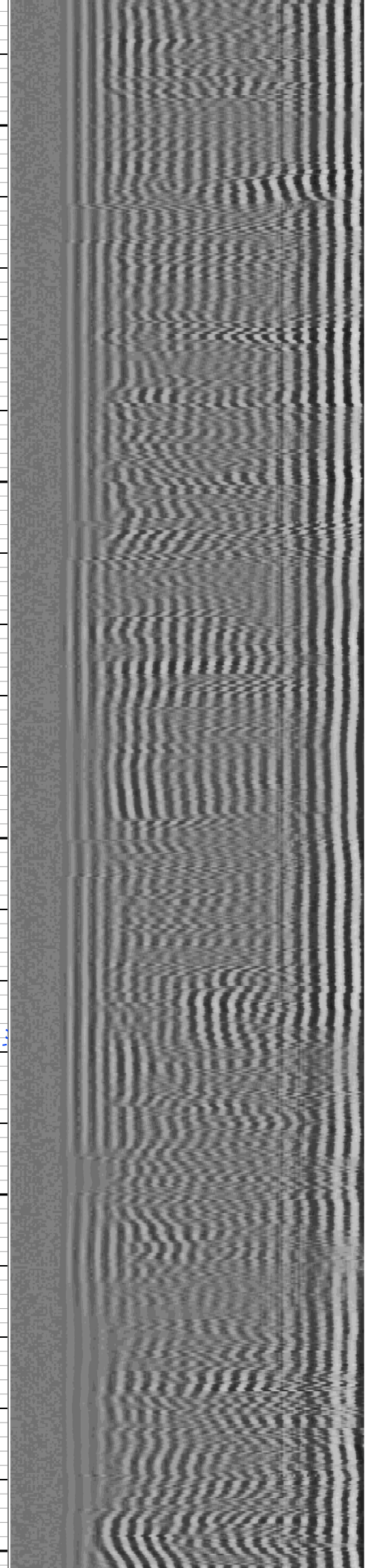
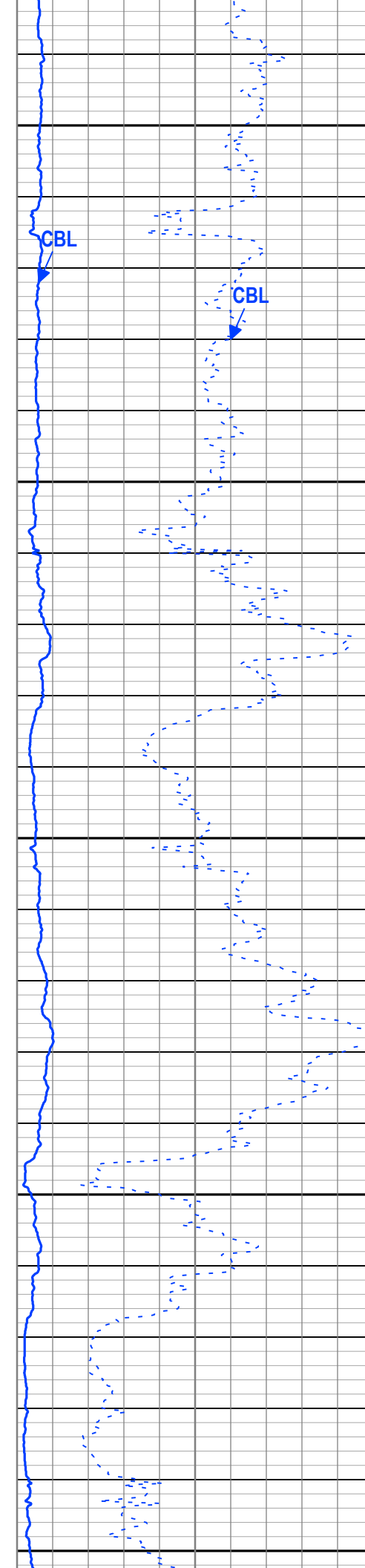
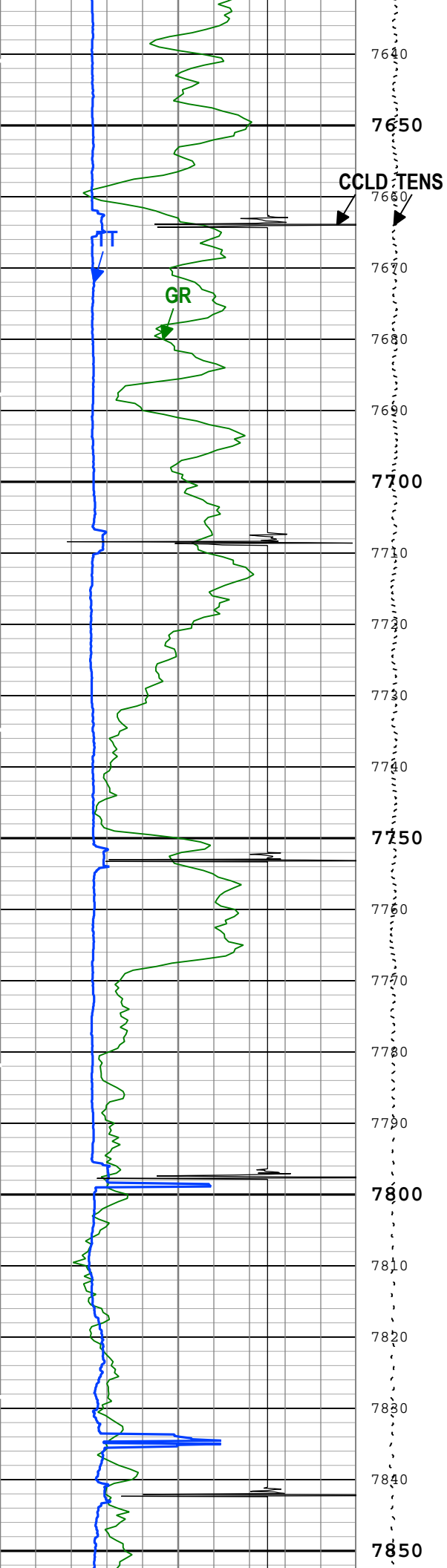




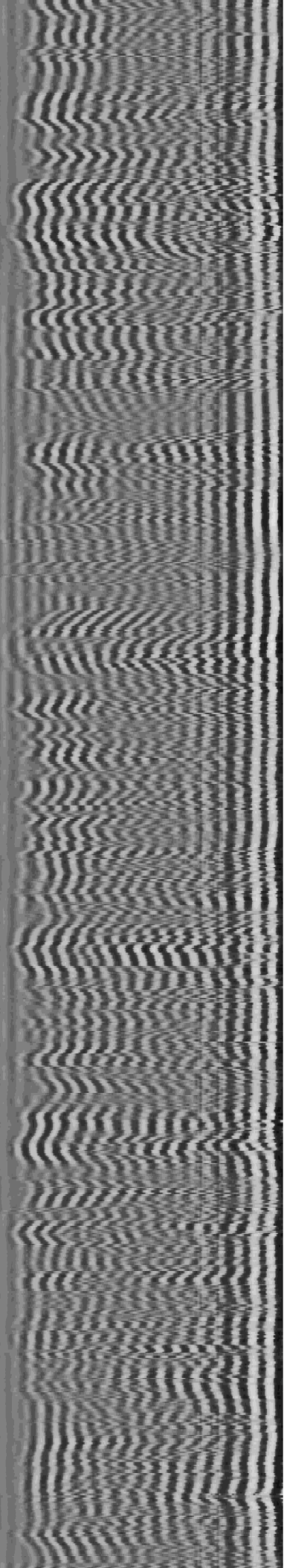
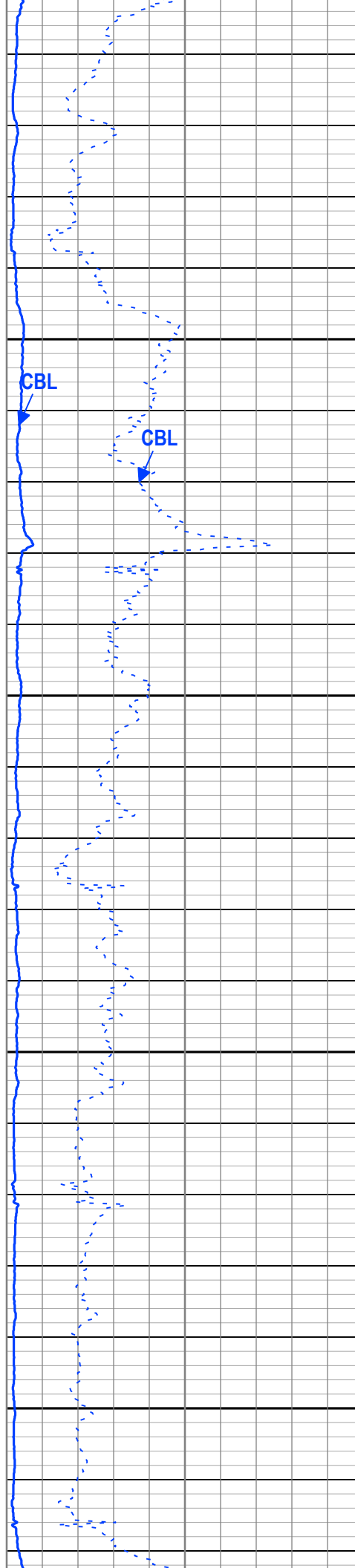
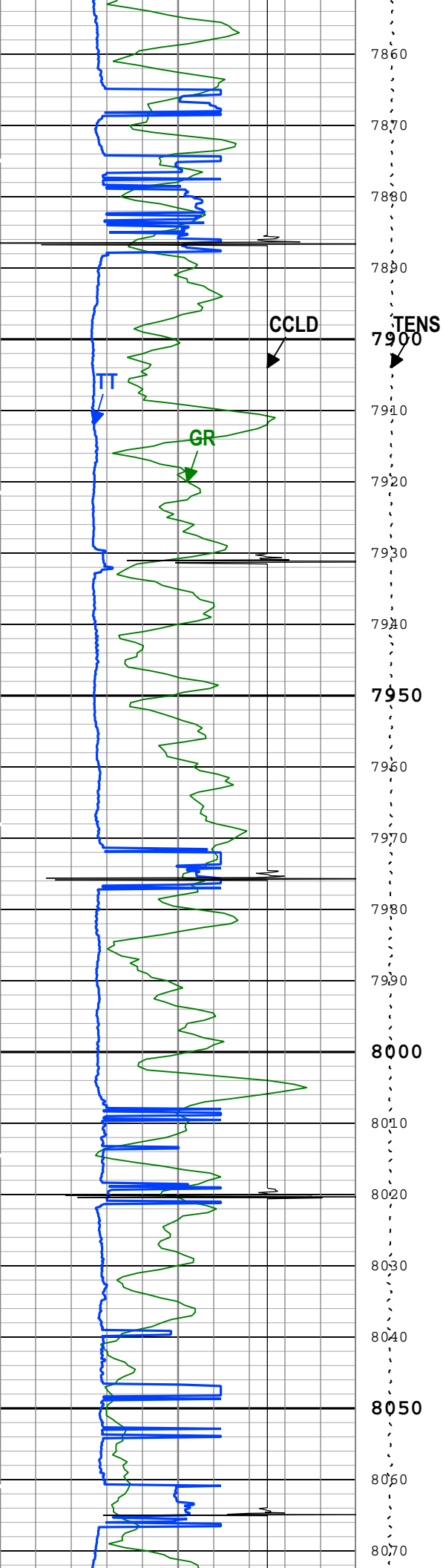


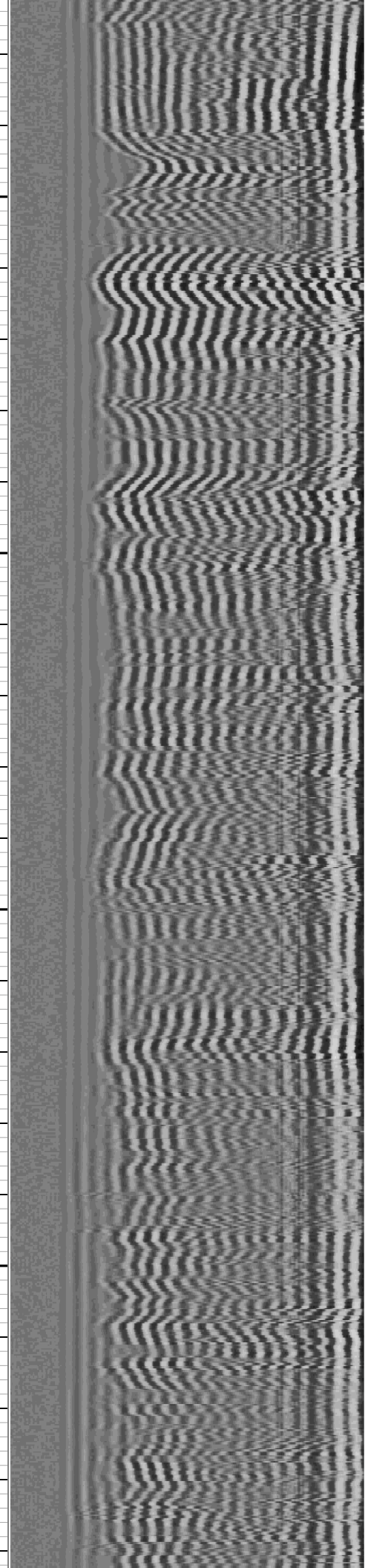
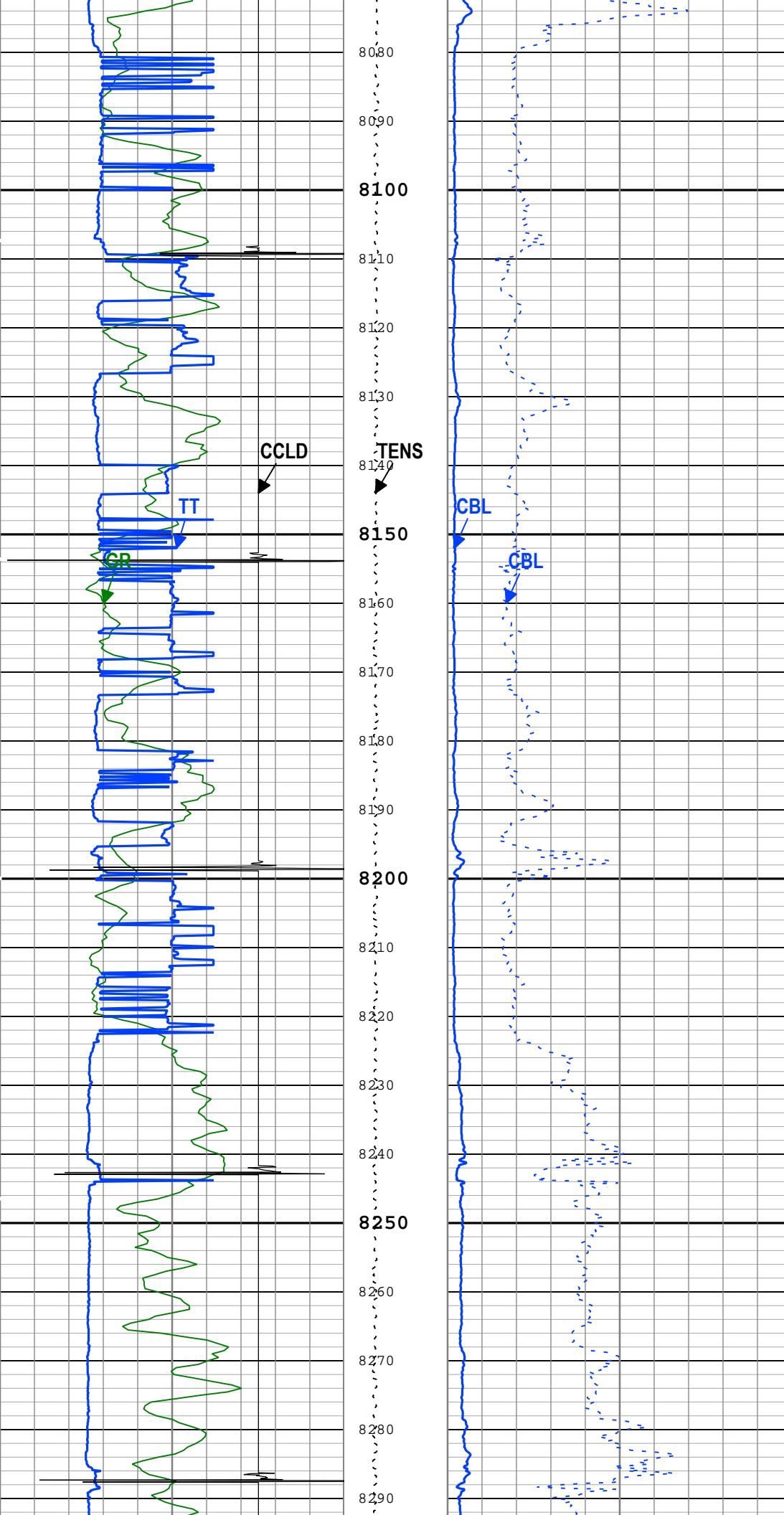




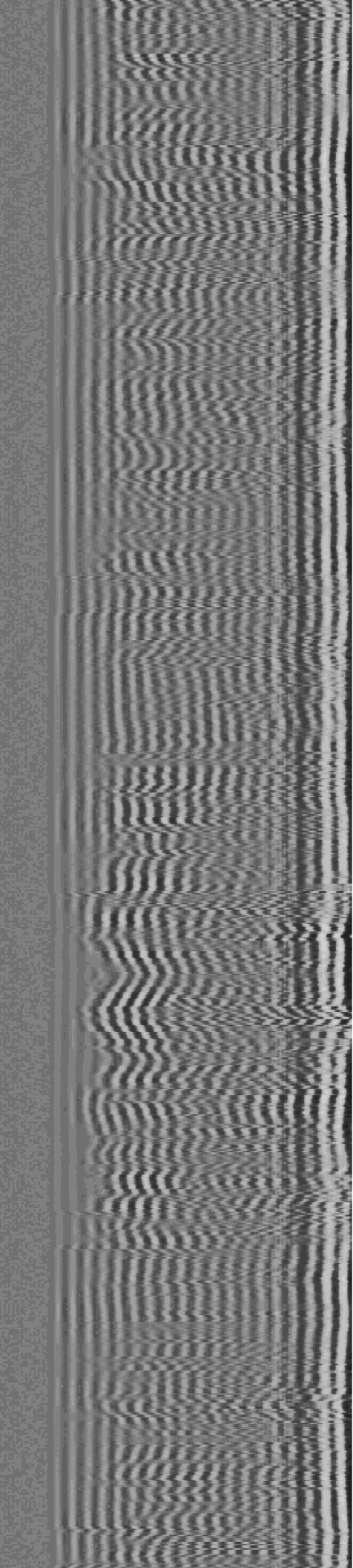
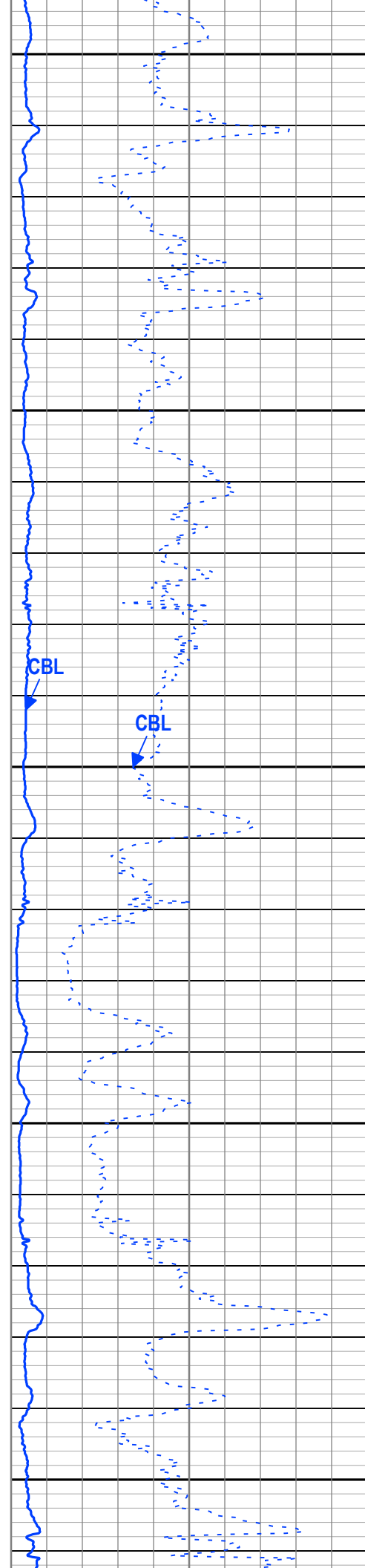
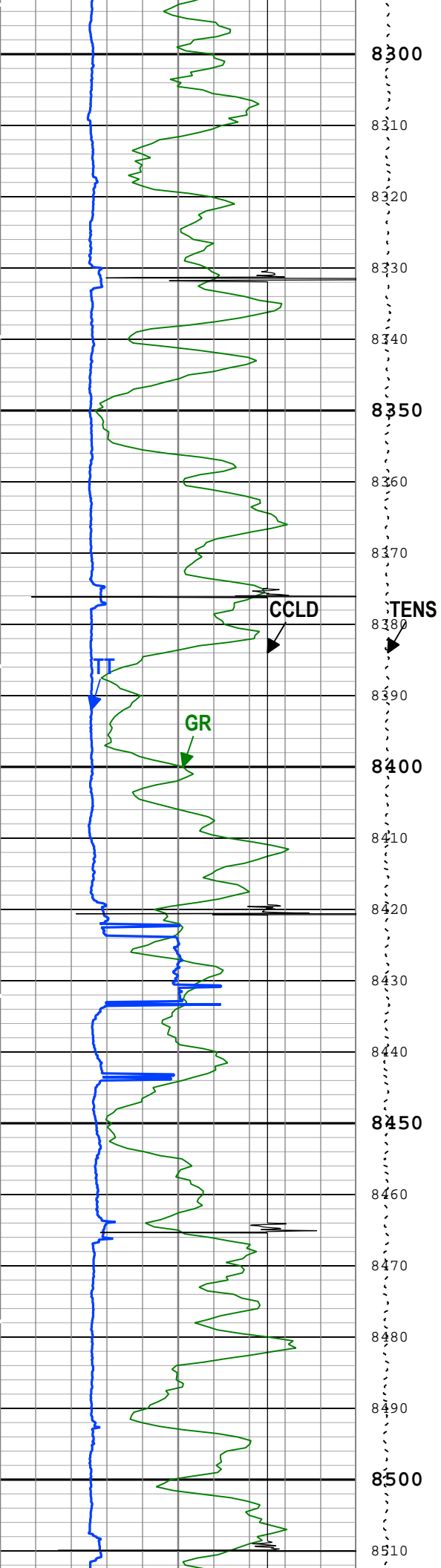


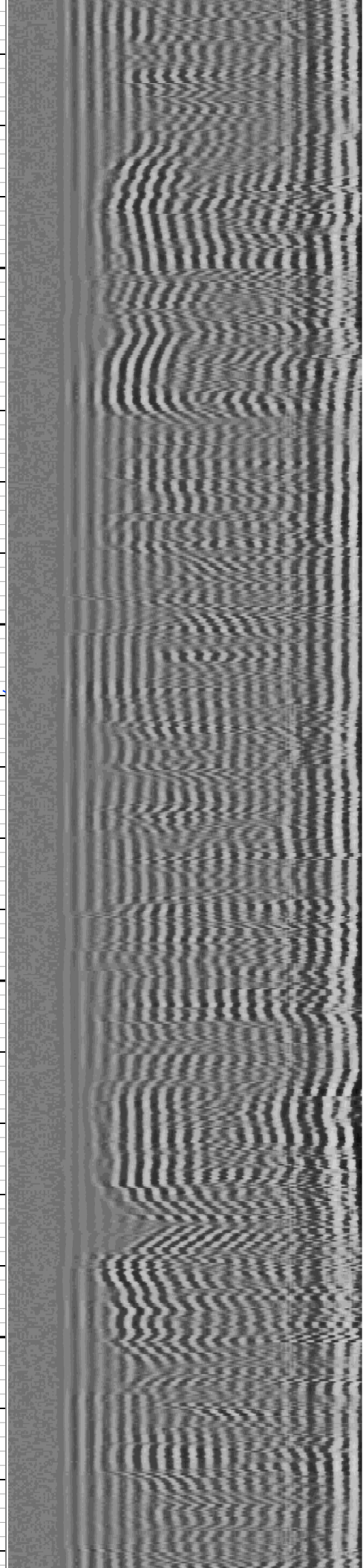
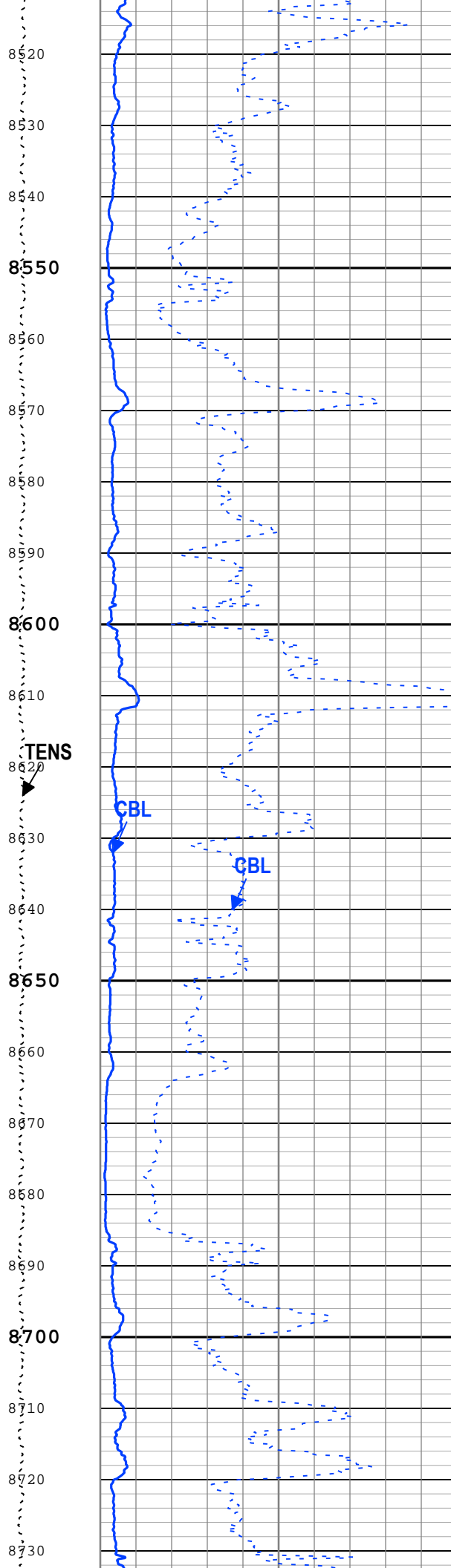
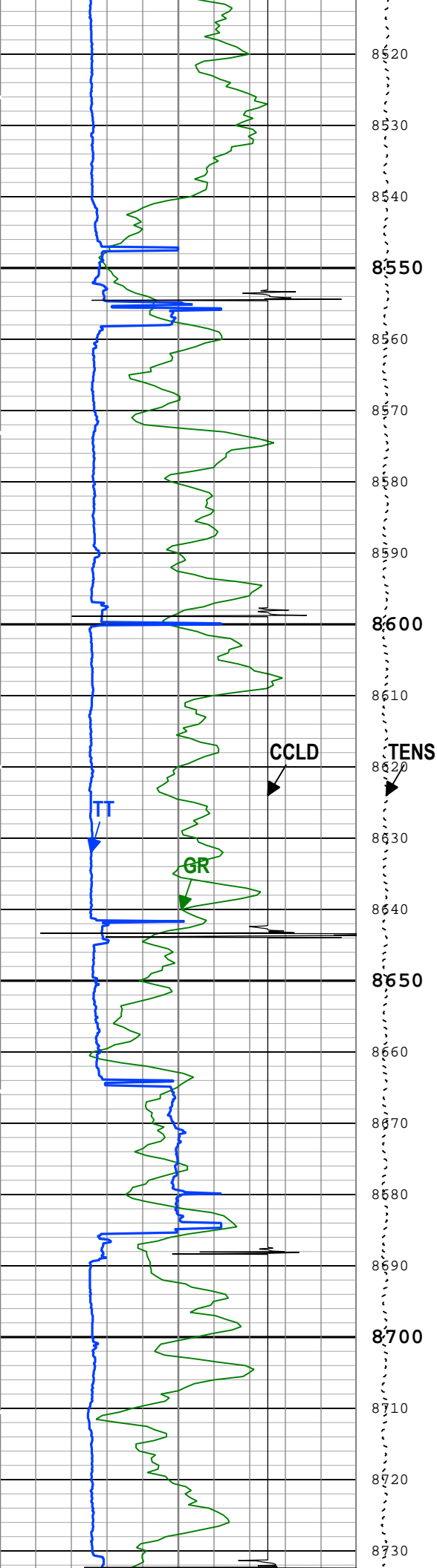


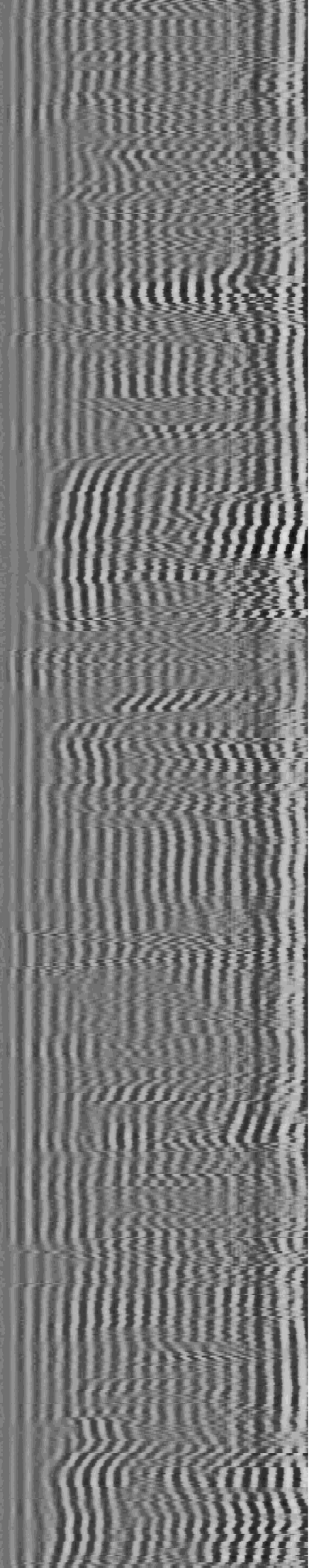
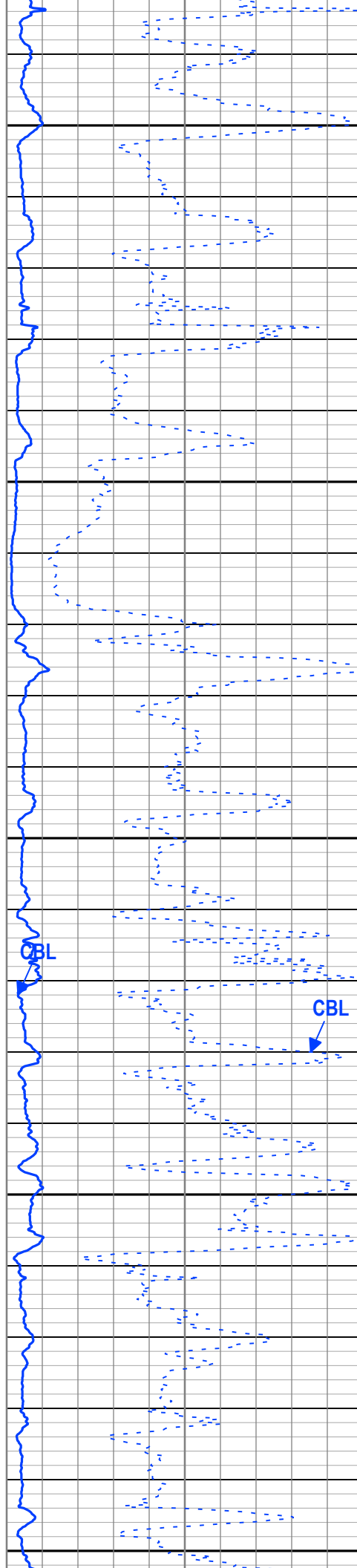
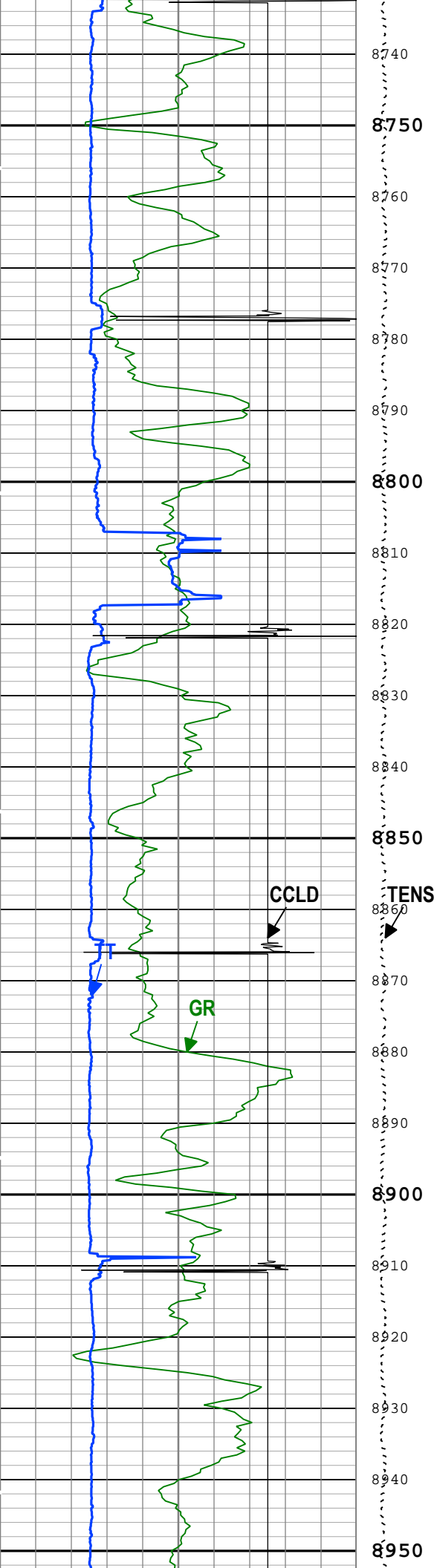


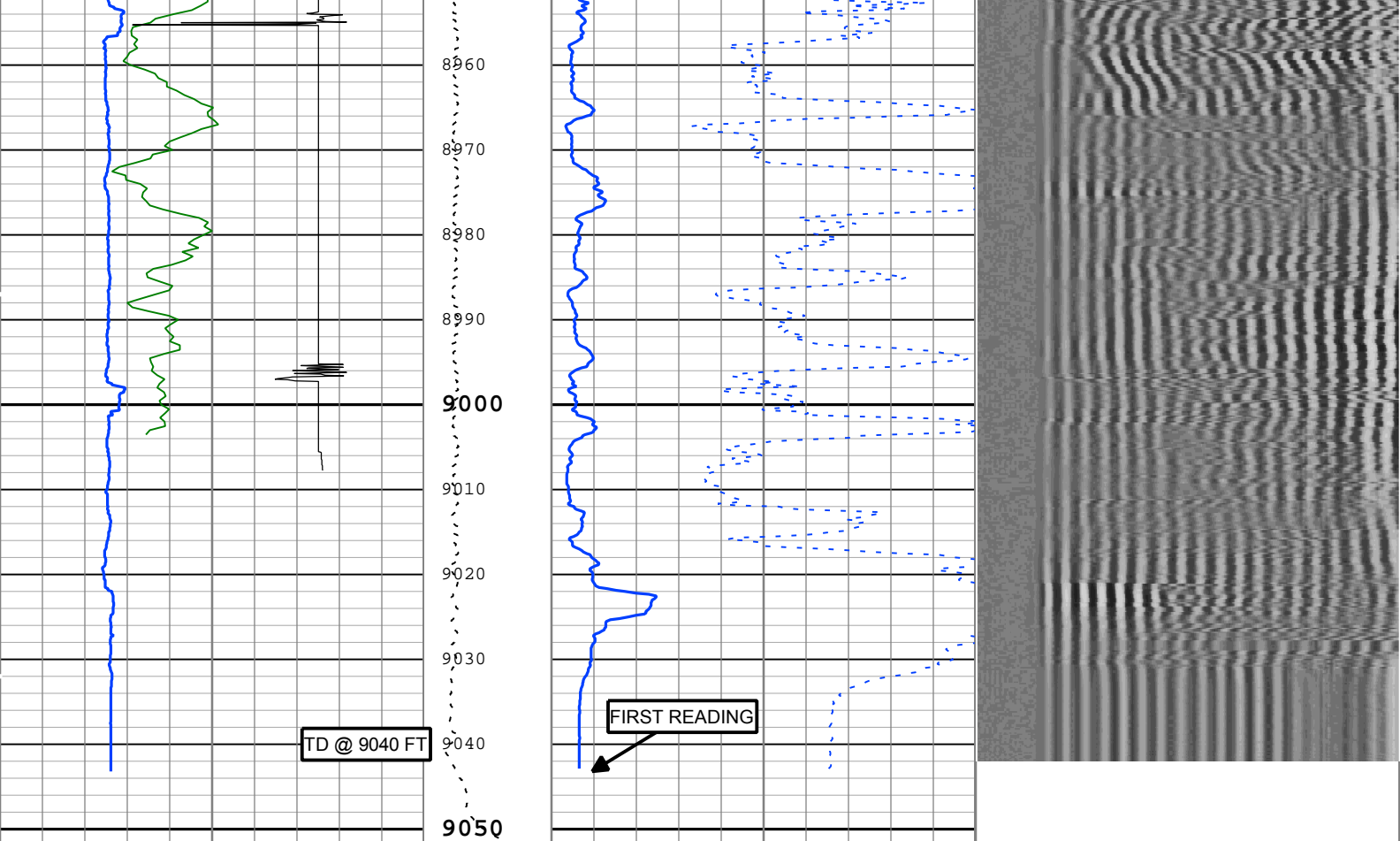












Gamma Ray (GR) PSTP-A	Cable Tension (TENS)	CBL Amplitude (CBL) SCMT-CB	Min	Amplitude	Max
0 gAPI 150	3000 lbf 0	0 mV 10			
Transit Time for CBL (TT) SCMT-CB		CBL Amplitude (CBL) SCMT-CB	VDL VariableDensity (VDL) SCMT-CB		
200 us 400		0 mV 100	200	us	1200
CCL Discriminated Amplitude (CCLD) PSTP-A					
3 V -1					

TIME\_1900 - Time Marked every 60.00 (s)

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 10:42:59

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.6	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
FCF	CBL Fluid Compensation Factor	SCMT-CB	0.9	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	1.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	16.92	dB/ft



MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	0.51	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
SHT	Surface Hole Temperature	Borehole	68	degF

## Depth Zone Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
MCI	14.81	2206	2525
MCI	1.25	2525	9051.67

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	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[2]:Up	Up	8830.84 ft	9063.55 ft	21-Dec-2017 10:48:23 AM	21-Dec-2017 10:56:28 AM	ON	0.00 ft	Yes

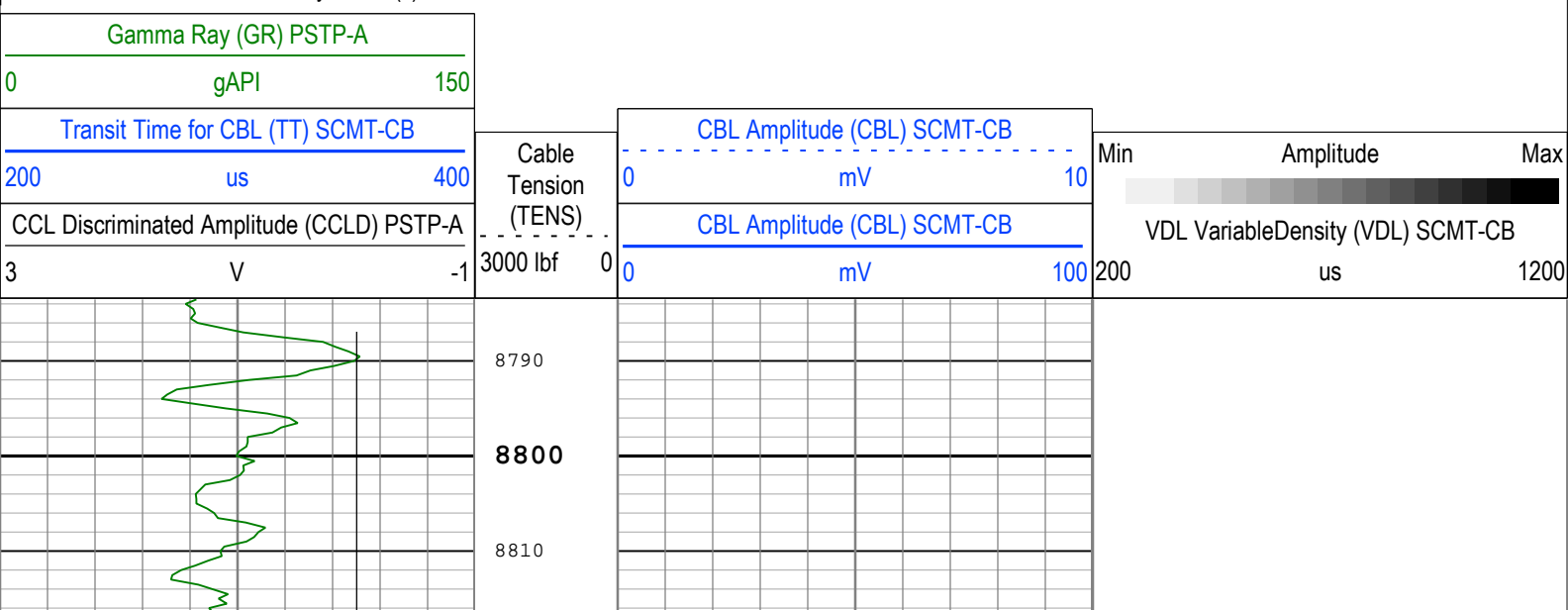
All depths are referenced to toolstring zero

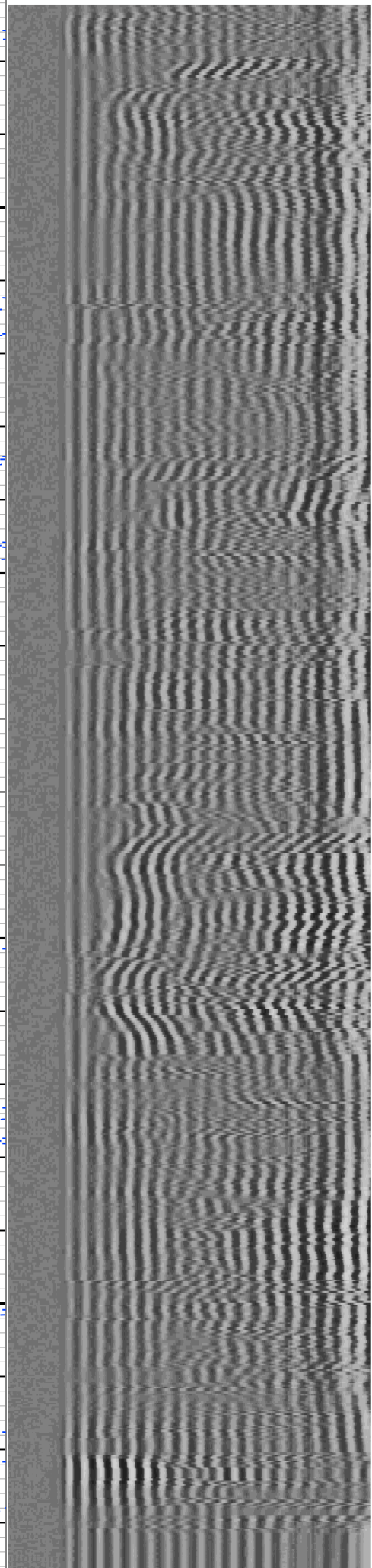
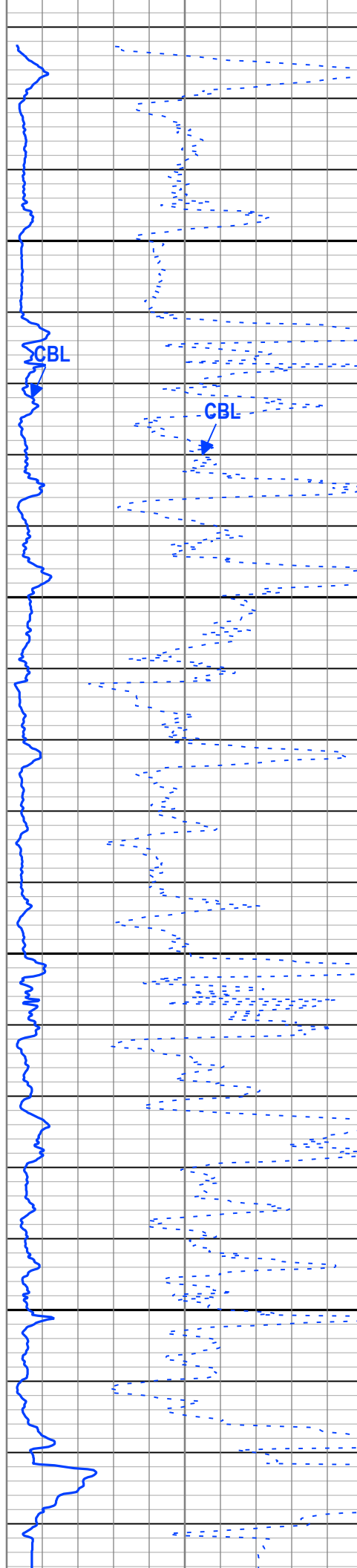
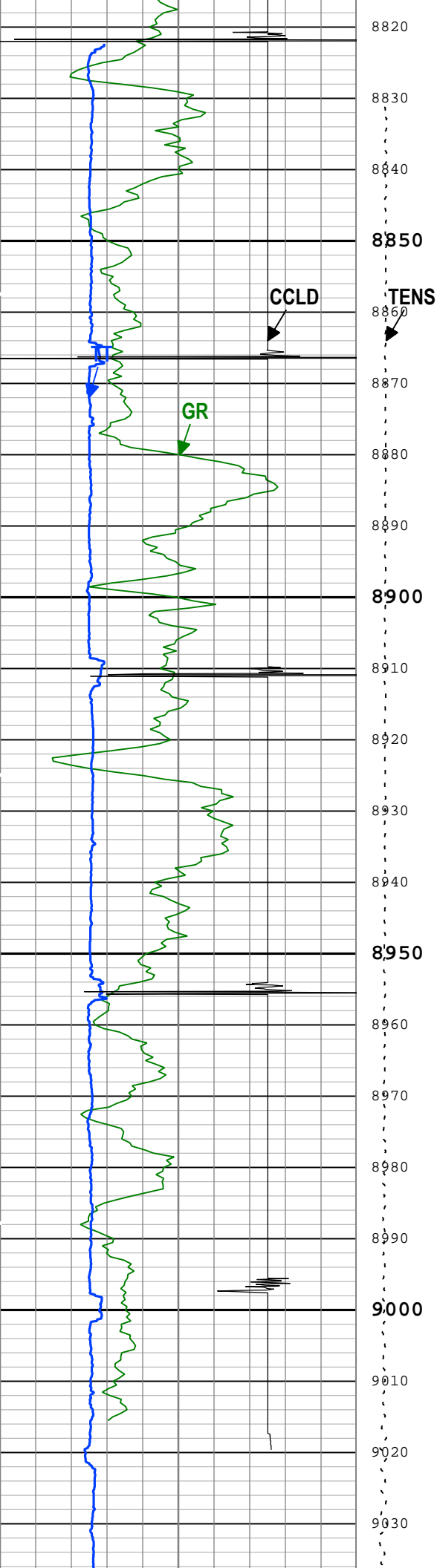
Log	Company:Caerus Operating LLC      Well:Puckett 15A-23 697 ONE: Log[2]:Up:S008
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Description: SCMT Amplitudes and VDL   Format: Log ( SCMT\_Amp\_VDL )   Index Scale: 5 in per 100 ft   Index Unit: ft   Index Type: Measured Depth

Creation Date: 07-Jan-2018 10:43:10

TIME\_1900 - Time Marked every 60.00 (s)

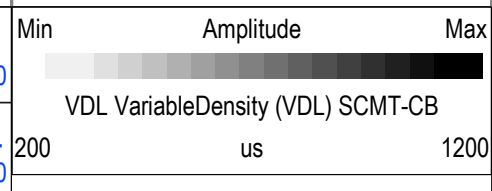
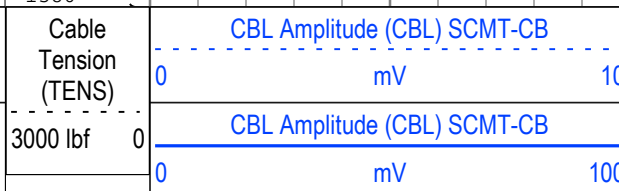
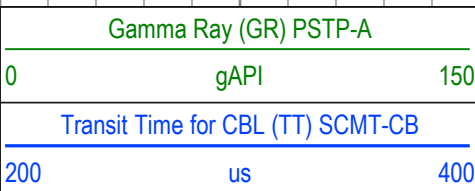
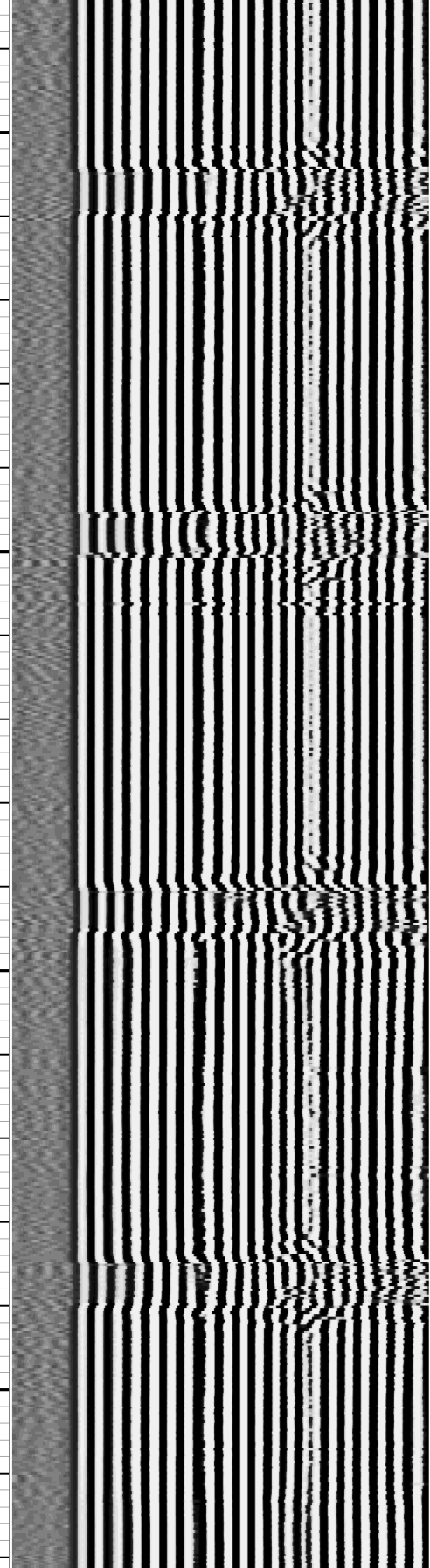
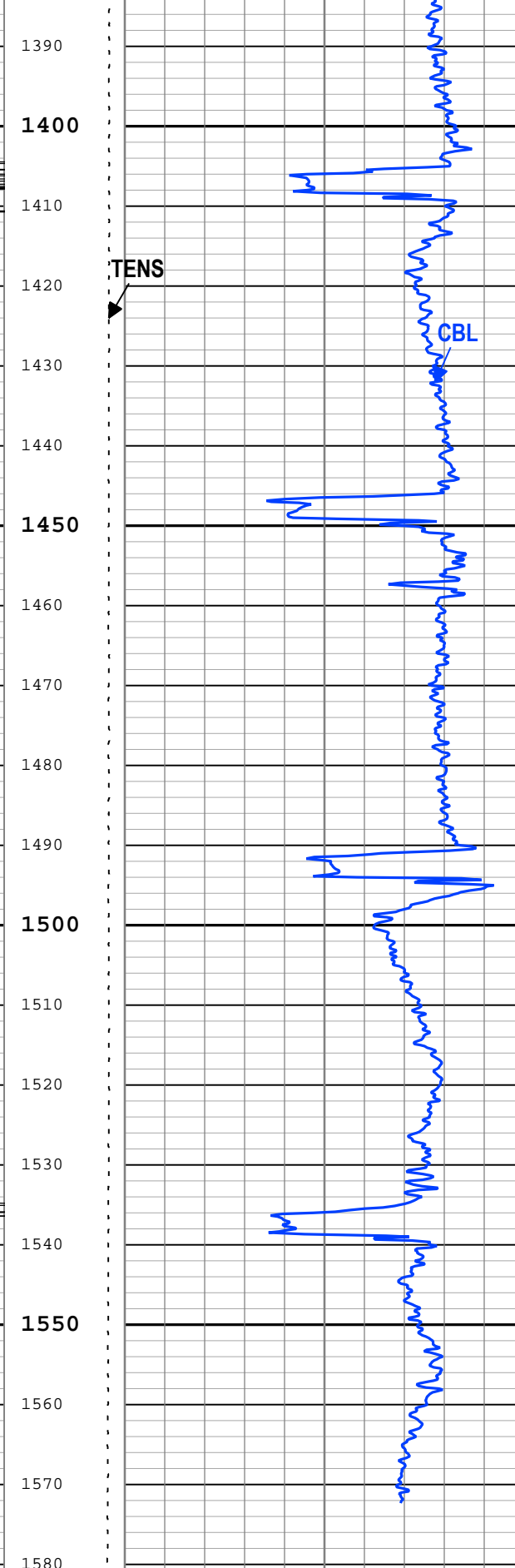
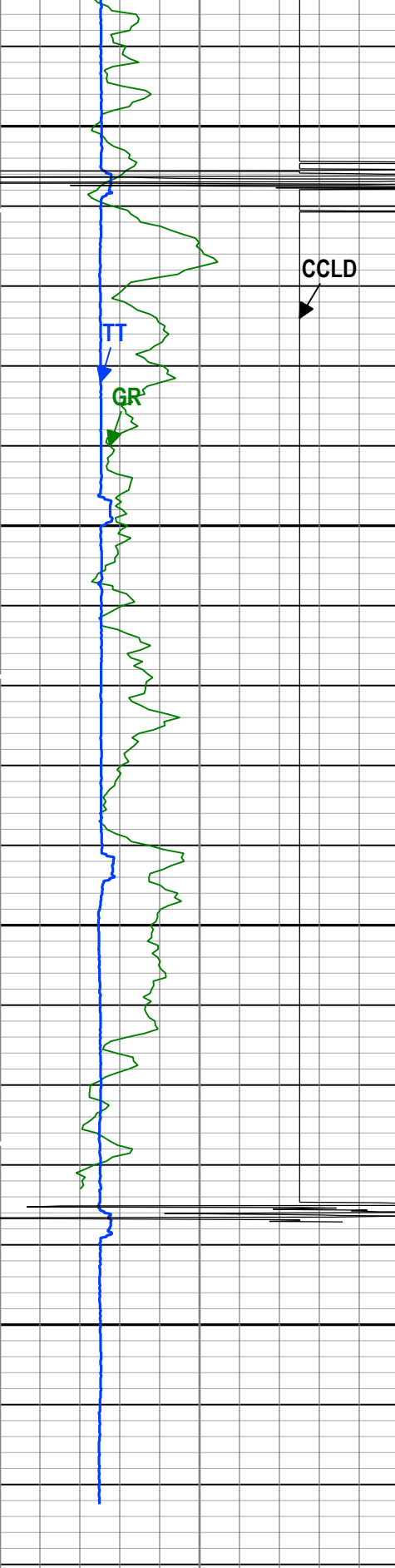












CCL Discriminated Amplitude (CCLD) PSTP-A

TIME\_1900 - Time Marked every 60.00 (s)

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 10:43:13

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.6	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
FCF	CBL Fluid Compensation Factor	SCMT-CB	0.9	
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	36 dB	

ONE

Main Pass

Software Version

Acquisition System	Version
Maxwell 2017 SP3	7.3.92069.3100

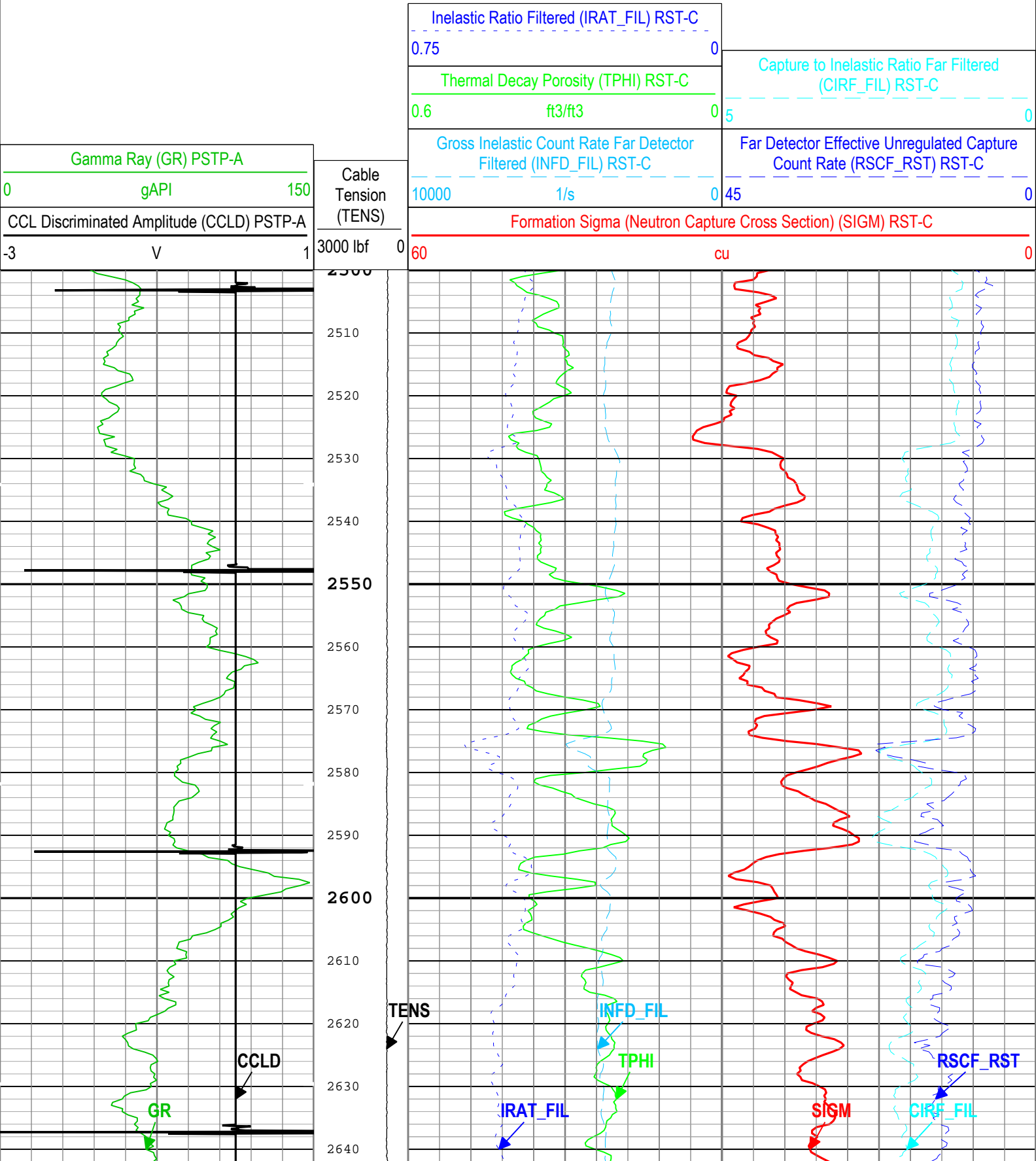
Pass Summary

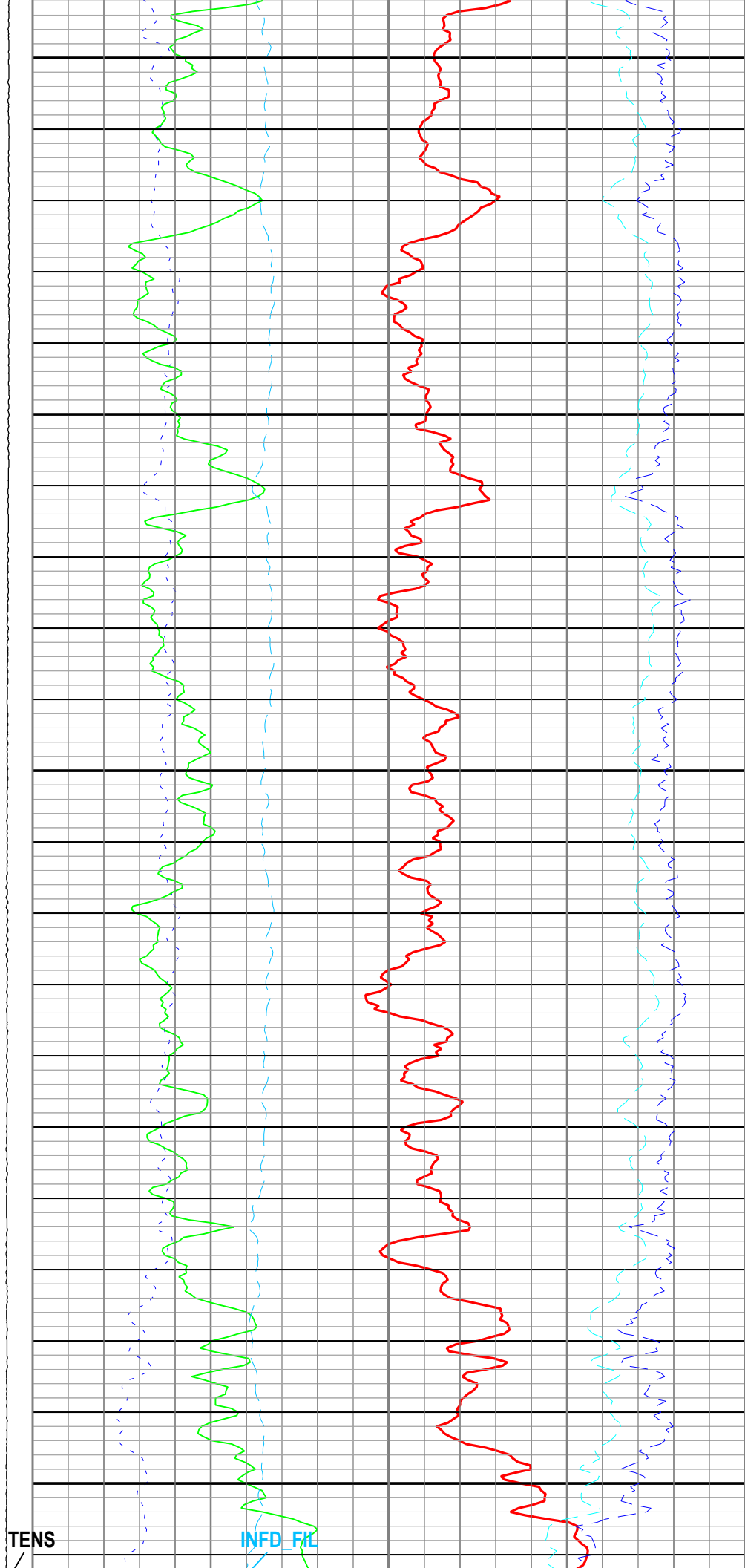
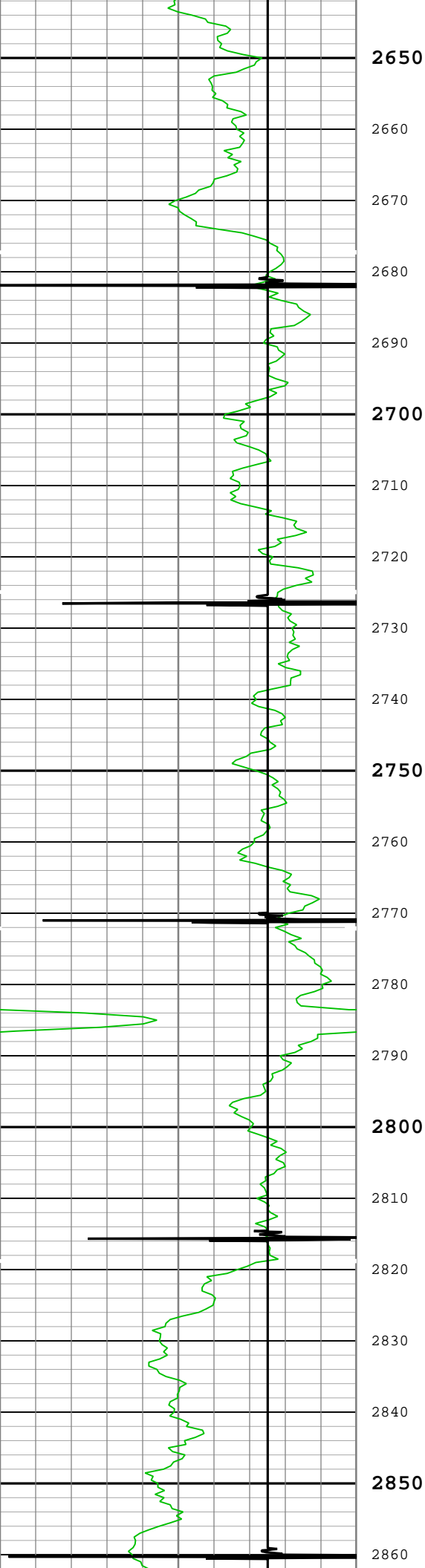
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[3]:Up	Up	2253.64 ft	9051.69 ft	21-Dec-2017 10:57:36 AM	21-Dec-2017 1:27:02 PM	ON	0.00 ft	Yes

All depths are referenced to toolstring zero

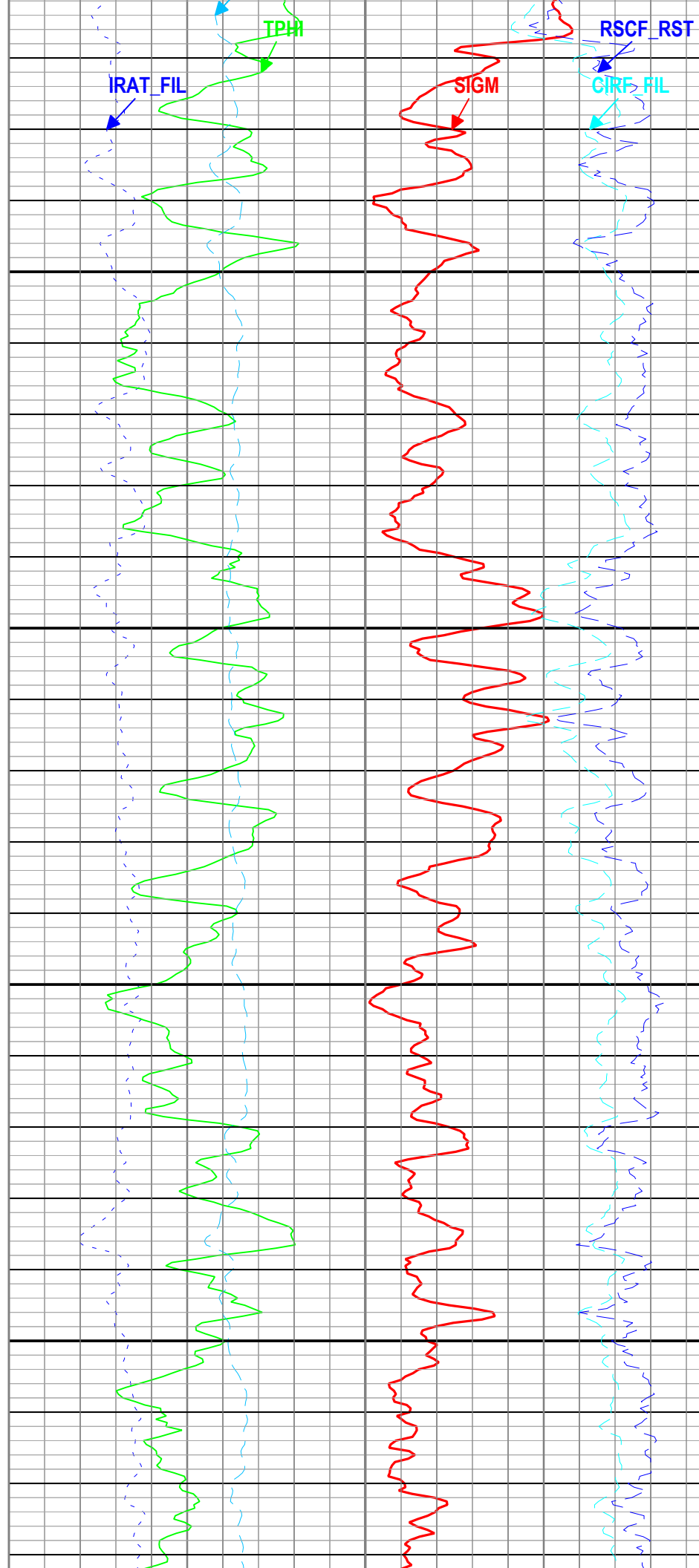
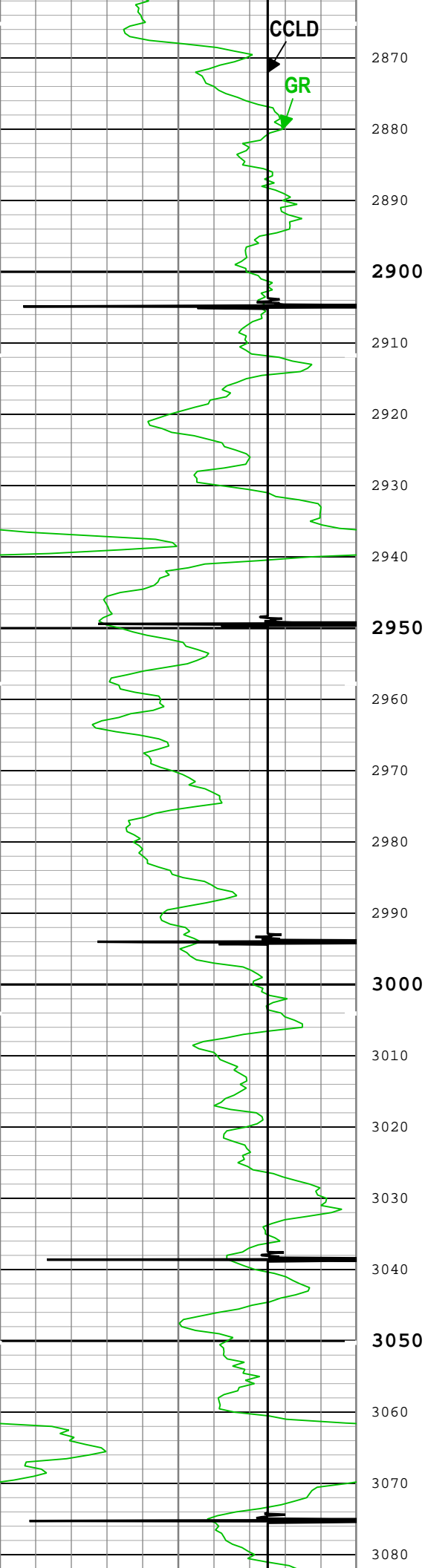
- IHV - Integrated Hole Volume every 10.00 (ft3)
- IHV - Integrated Hole Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)
- TIME\_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)
- ICV - Integrated Cement Volume every 100.00 (ft3)

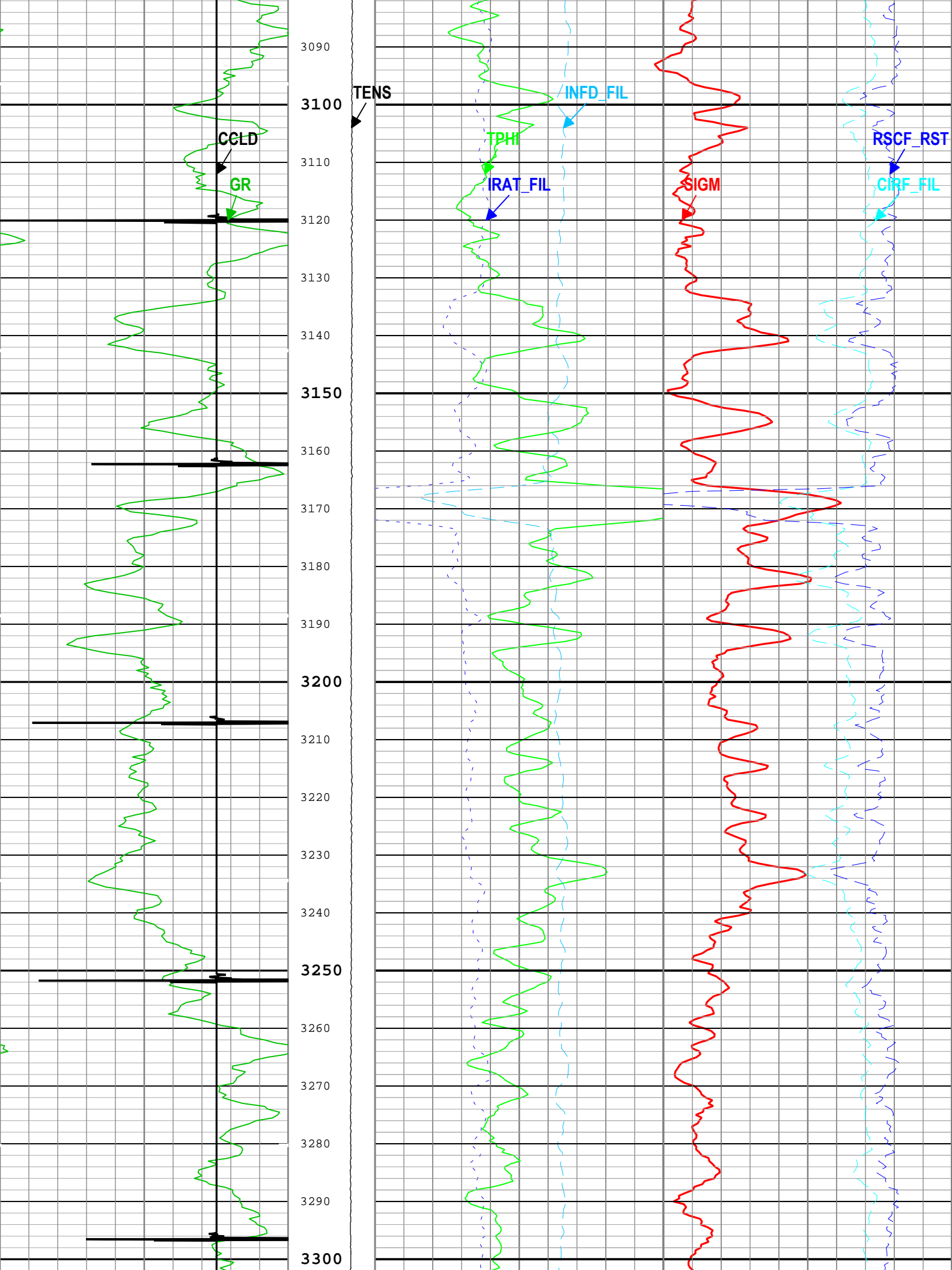
TIME\_1900 - Time Marked every 60.00 (s)

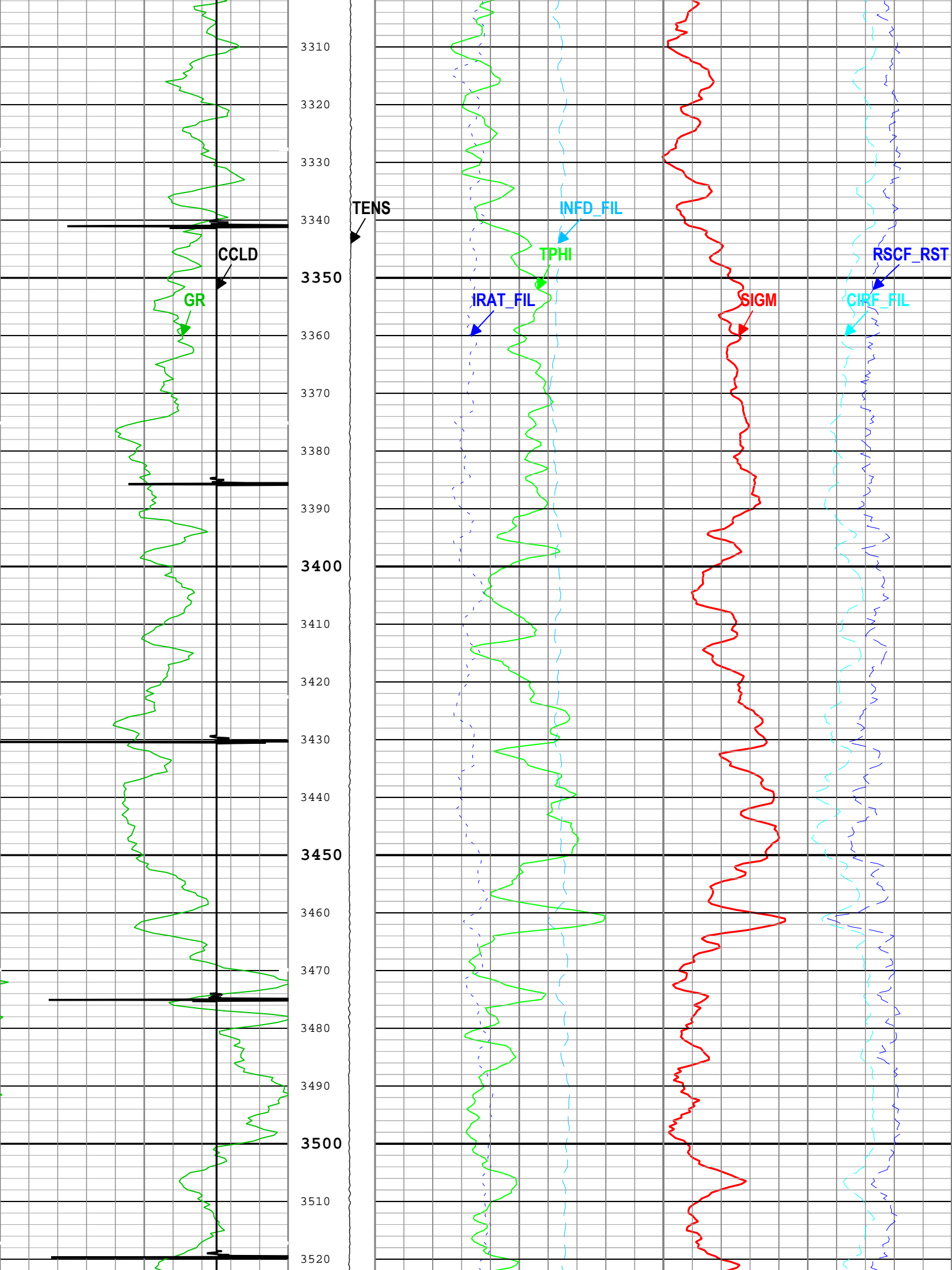


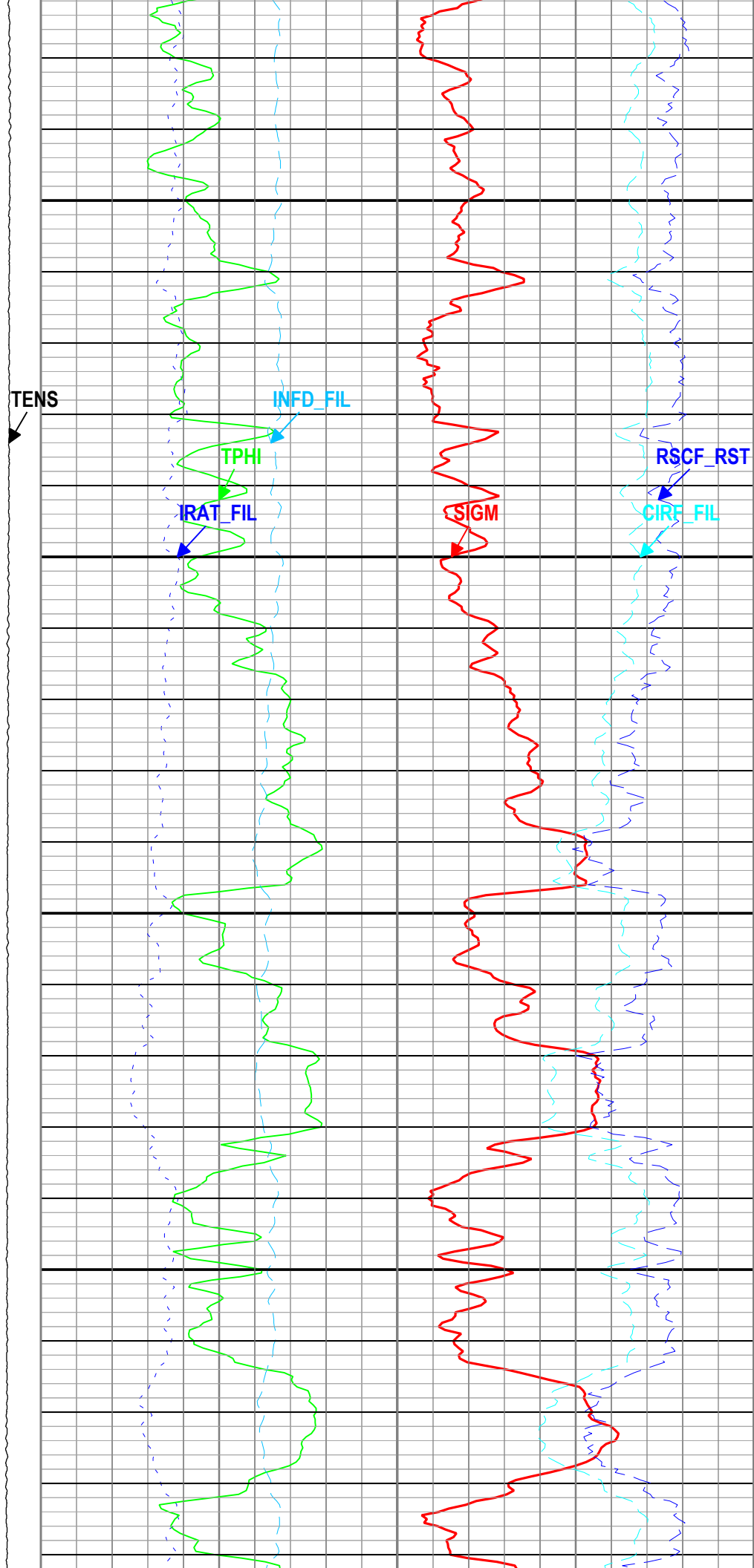
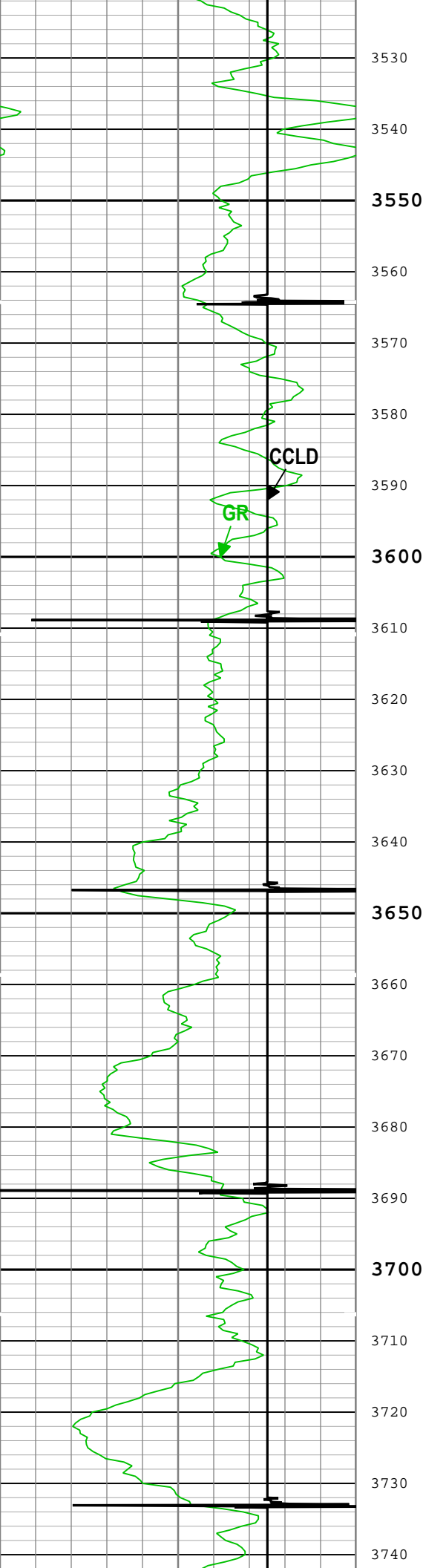




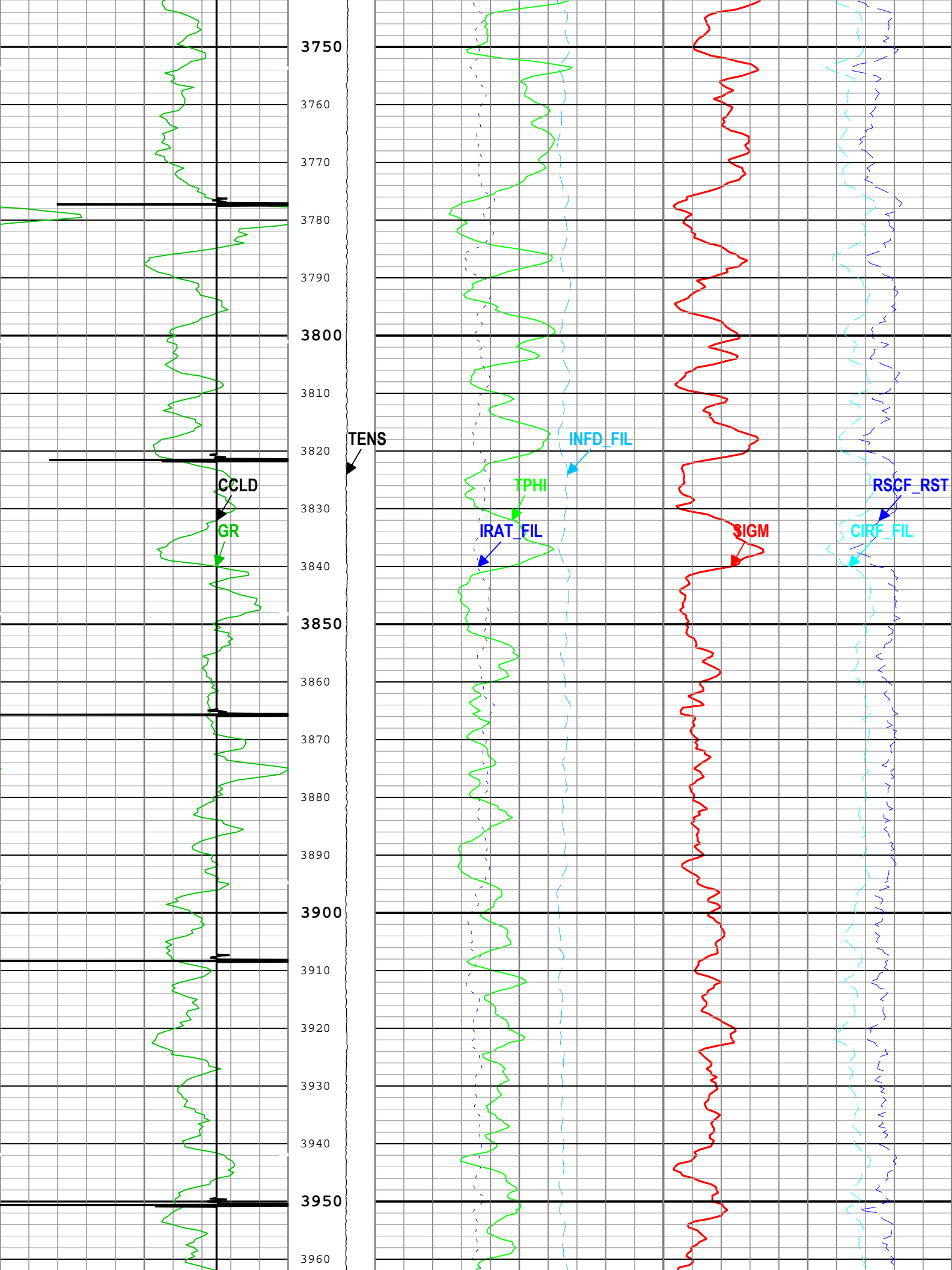


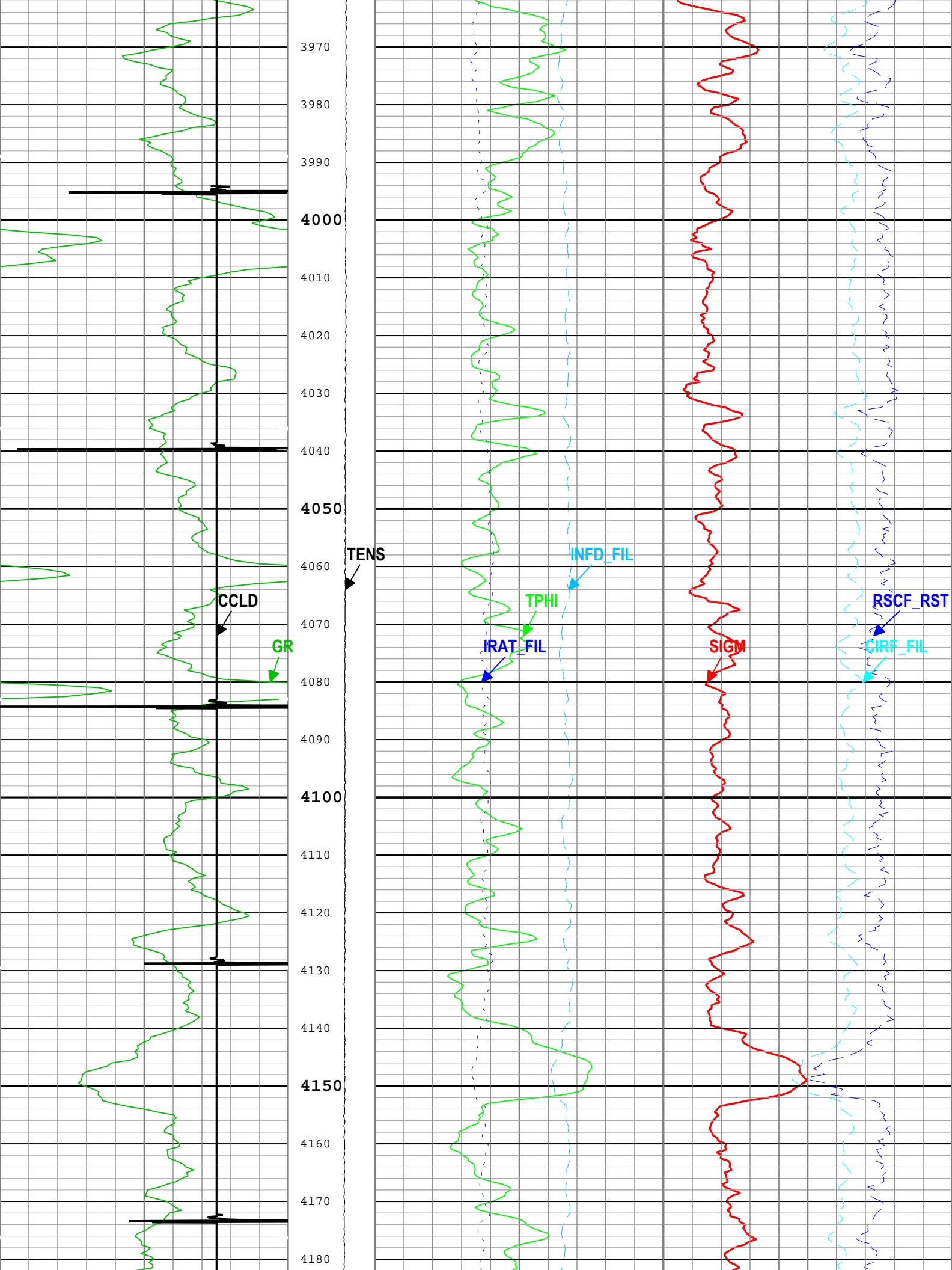


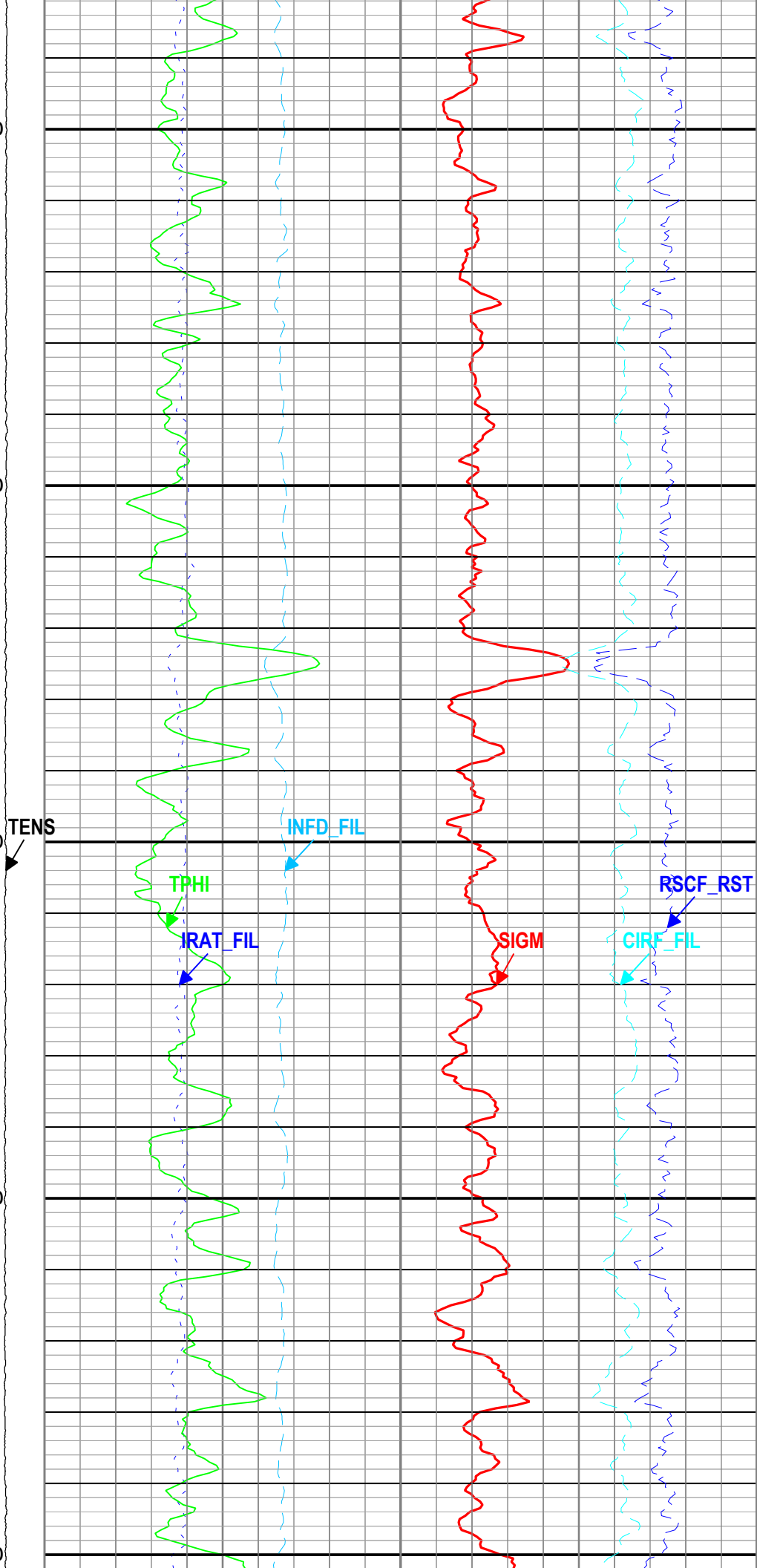
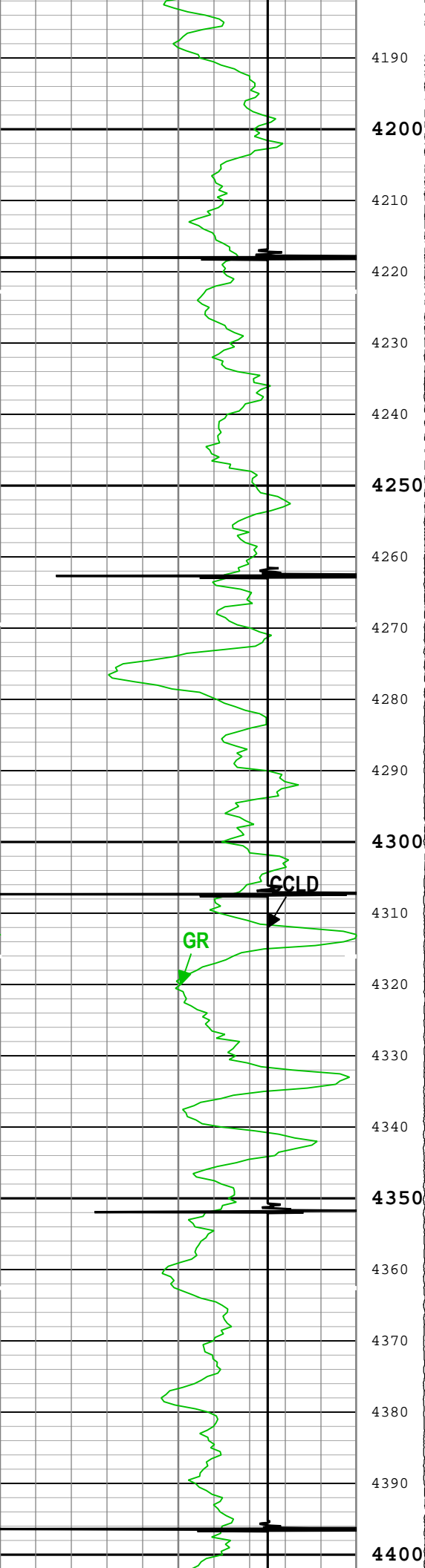


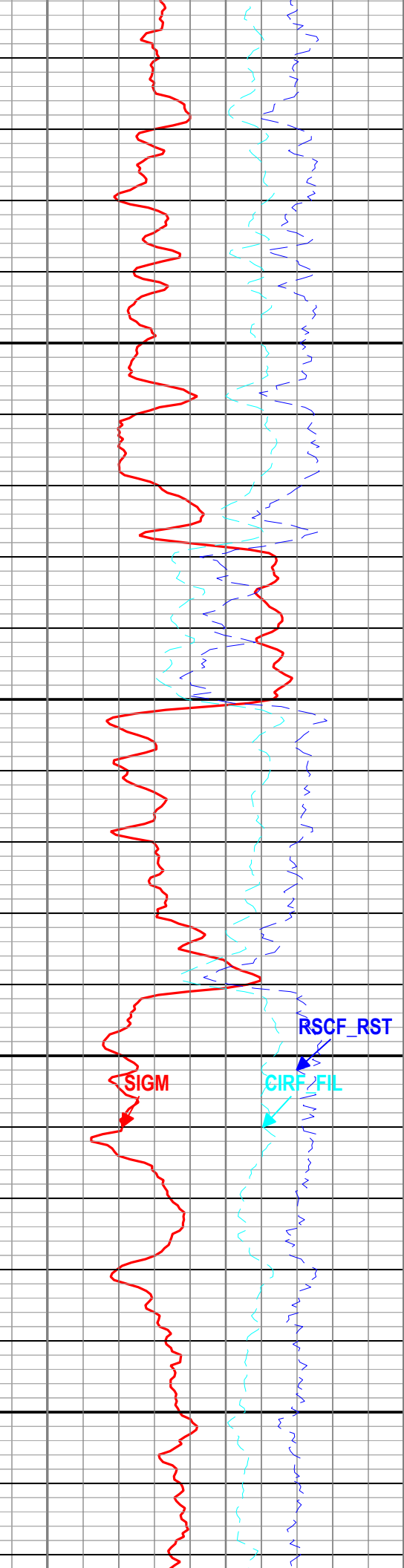
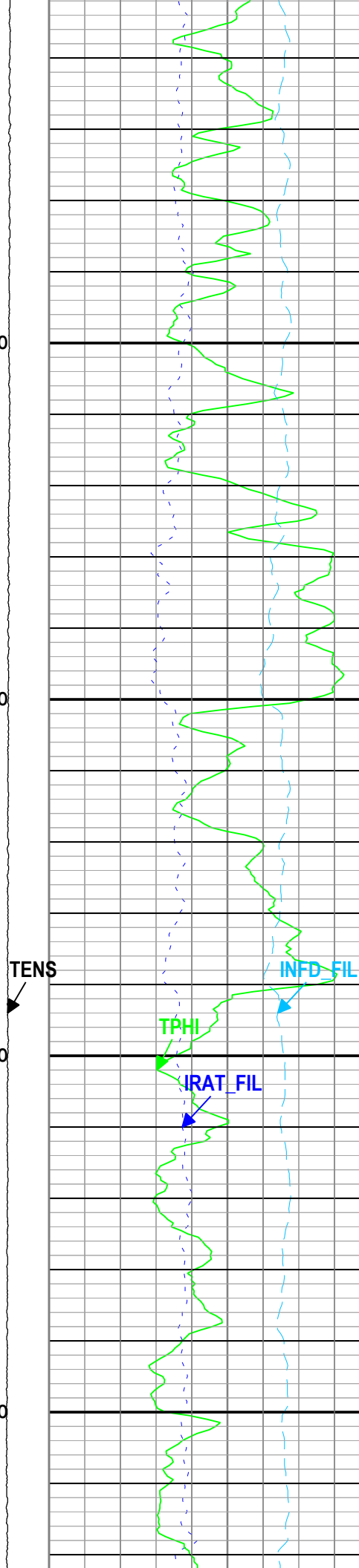
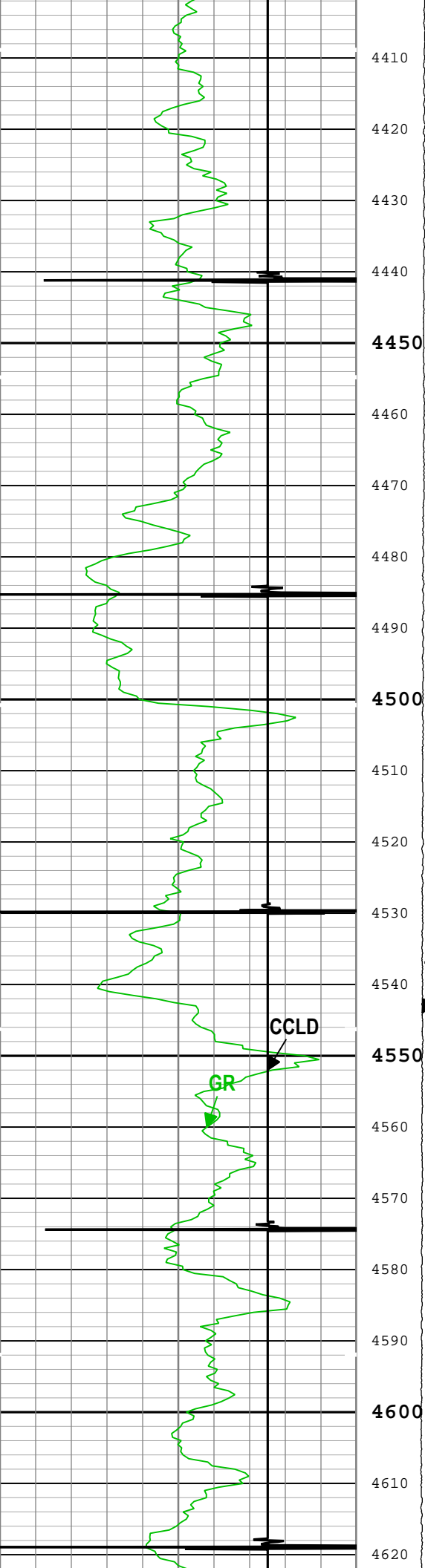












TENS

CCLD

GR

TPHI

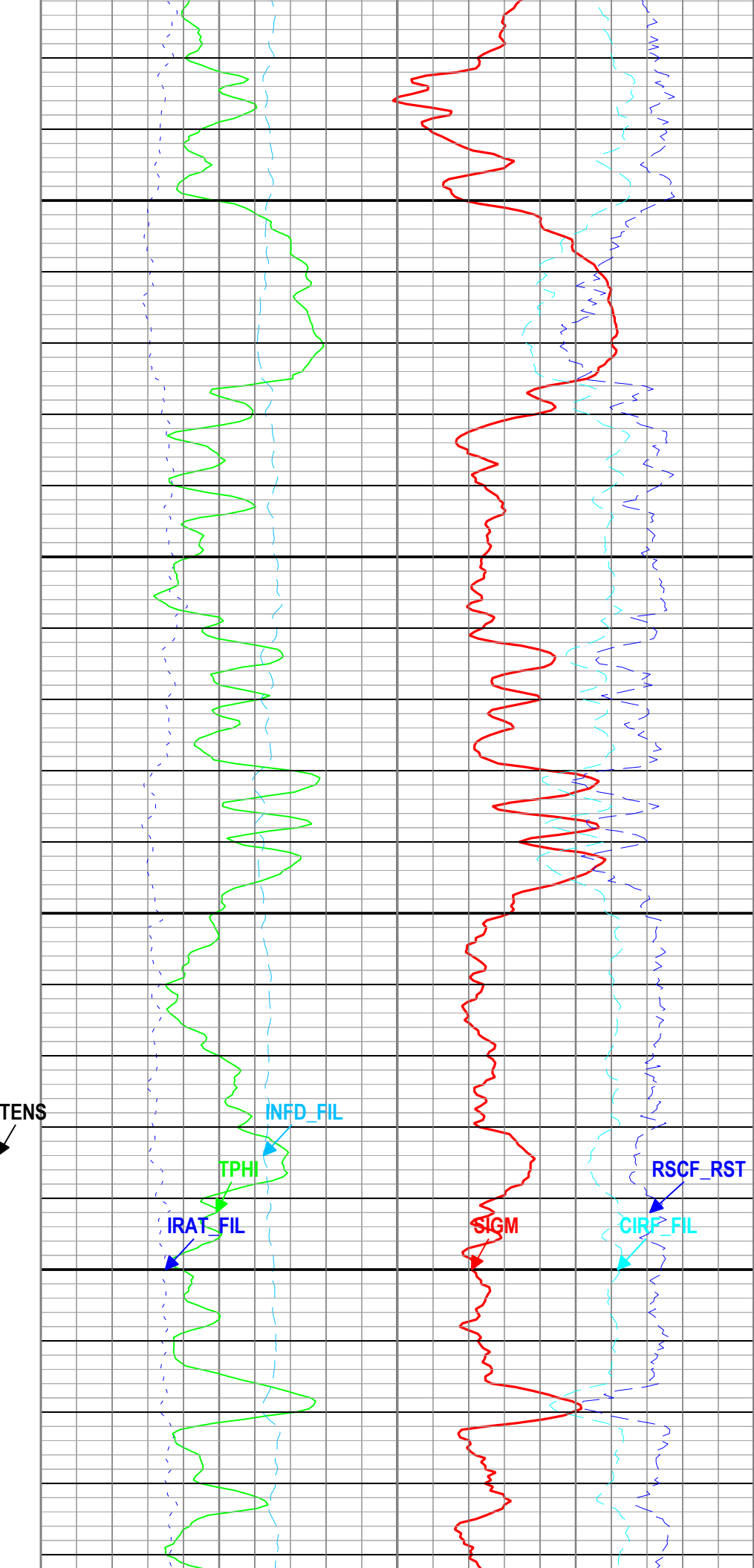
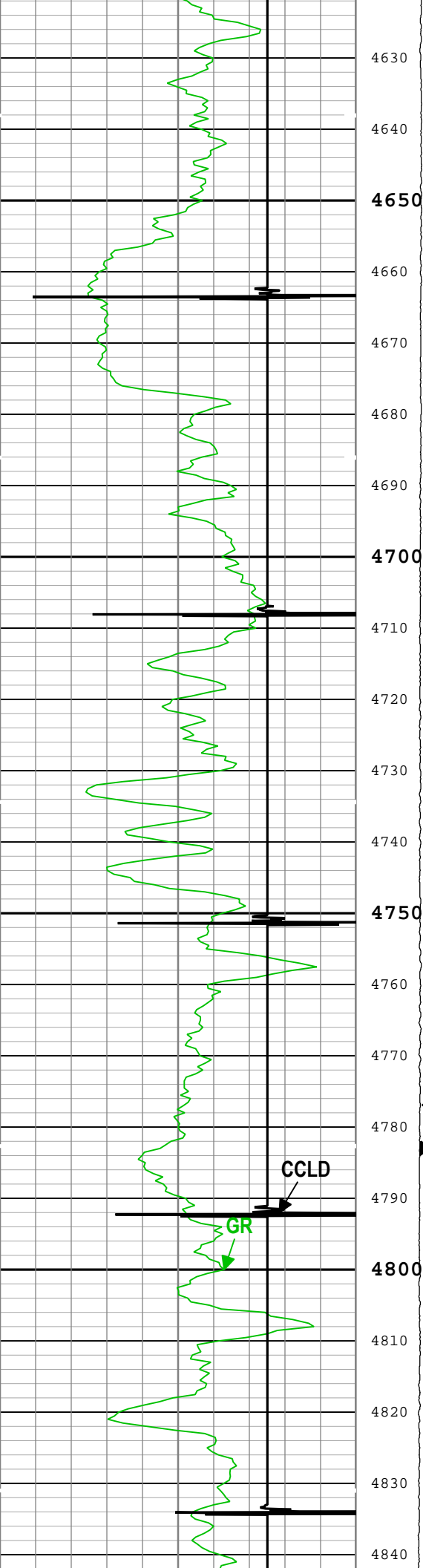
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INFD\_FIL

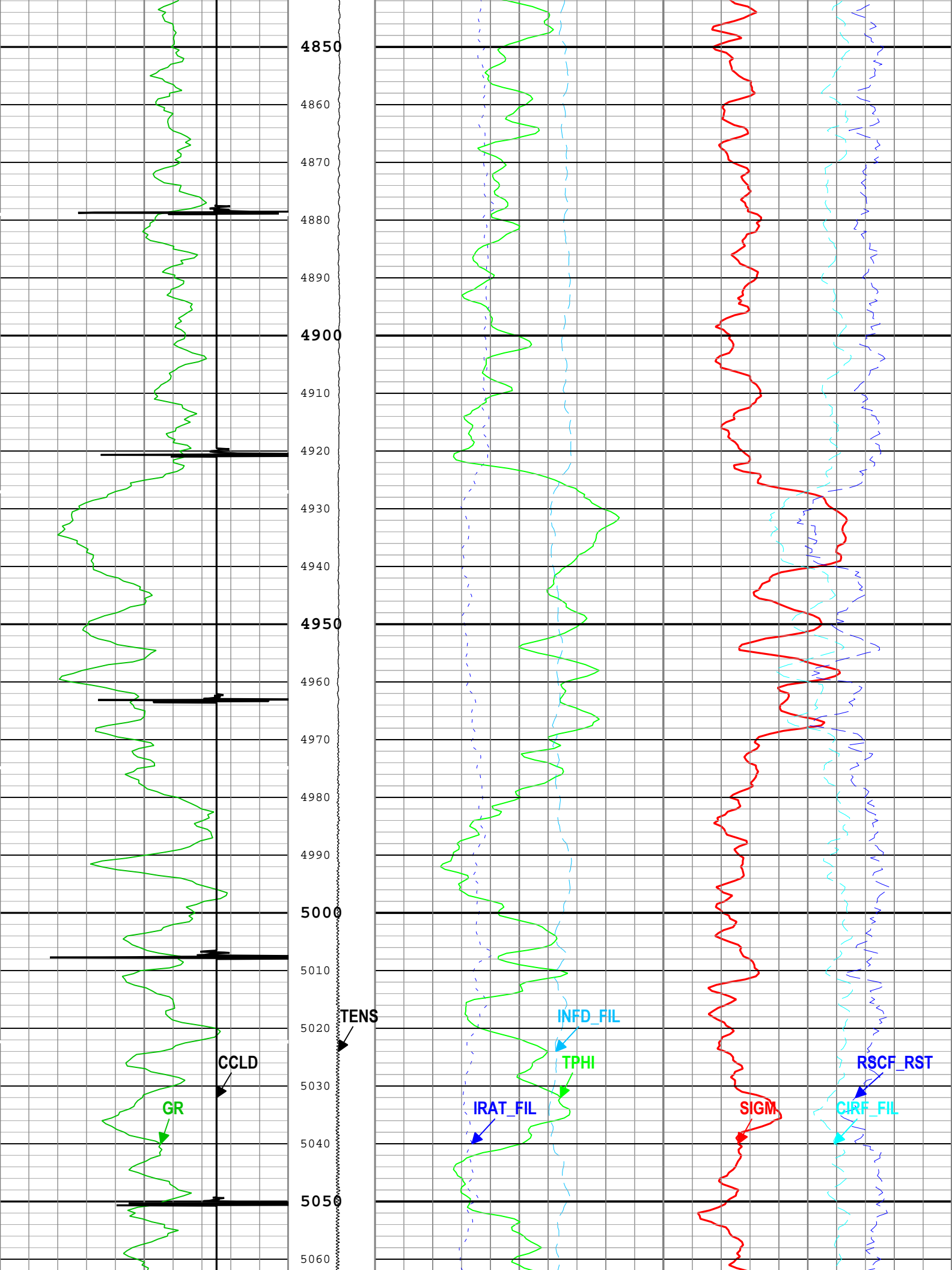
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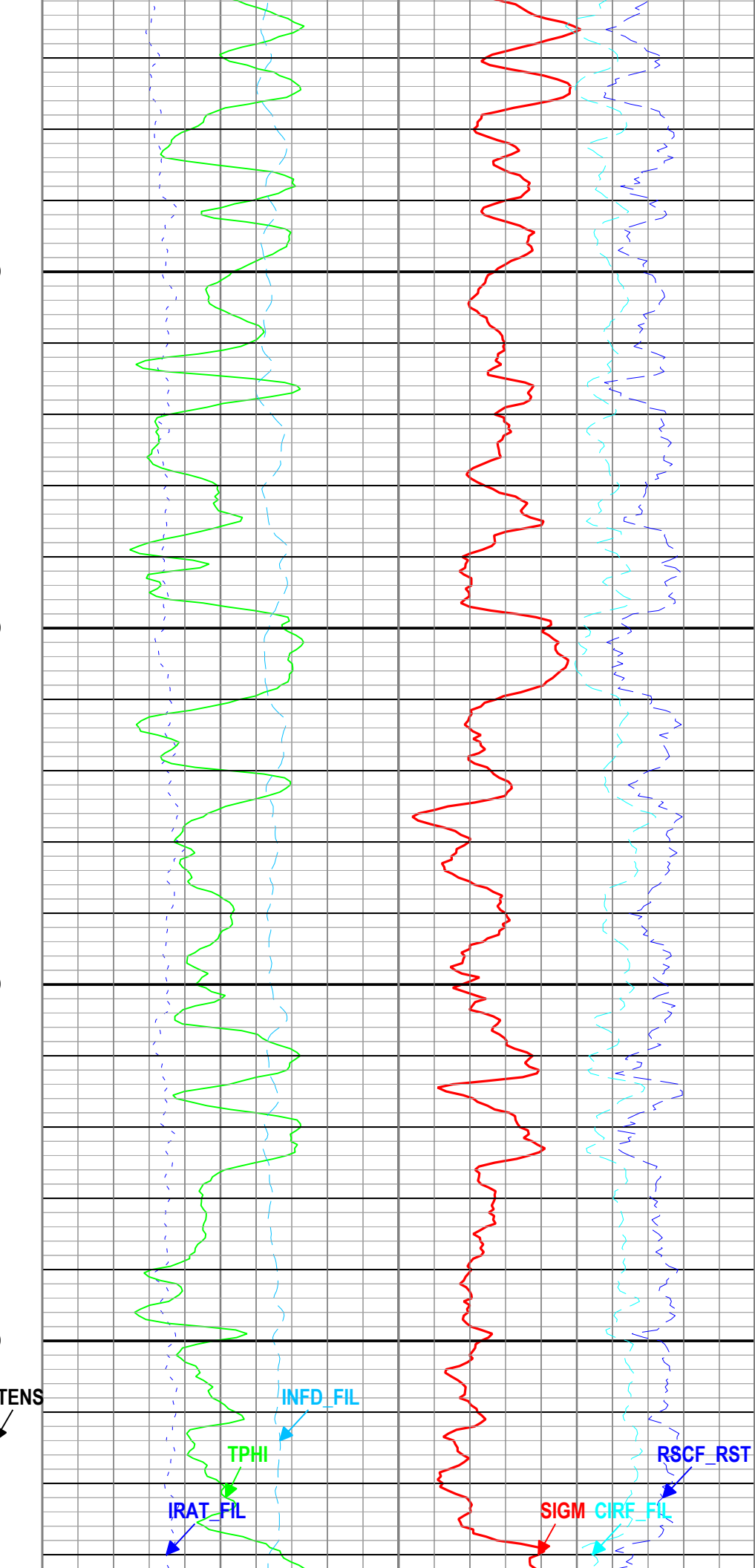
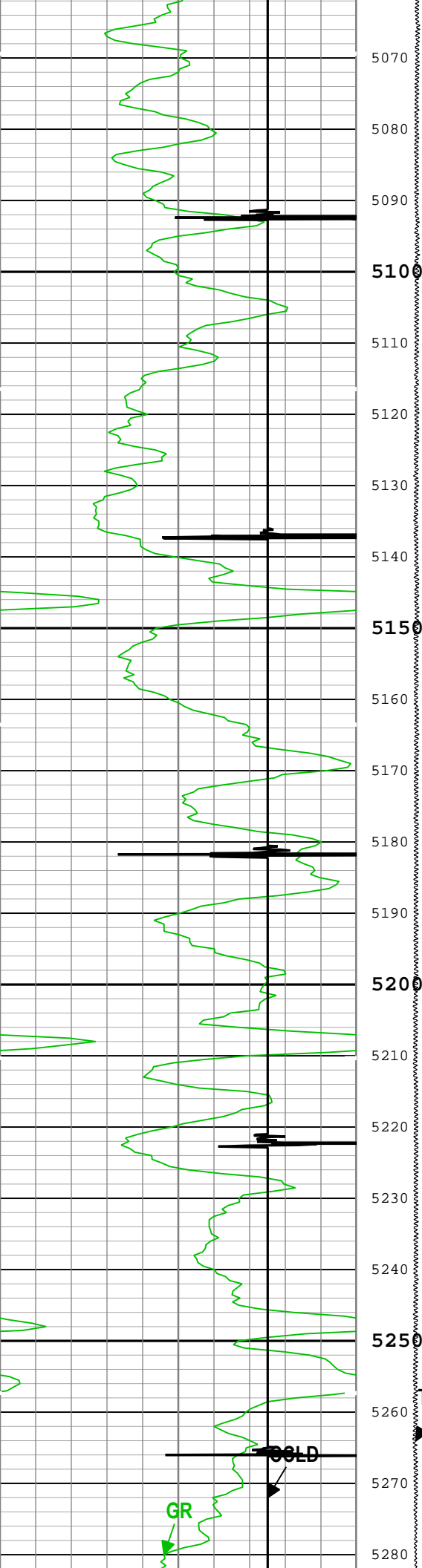
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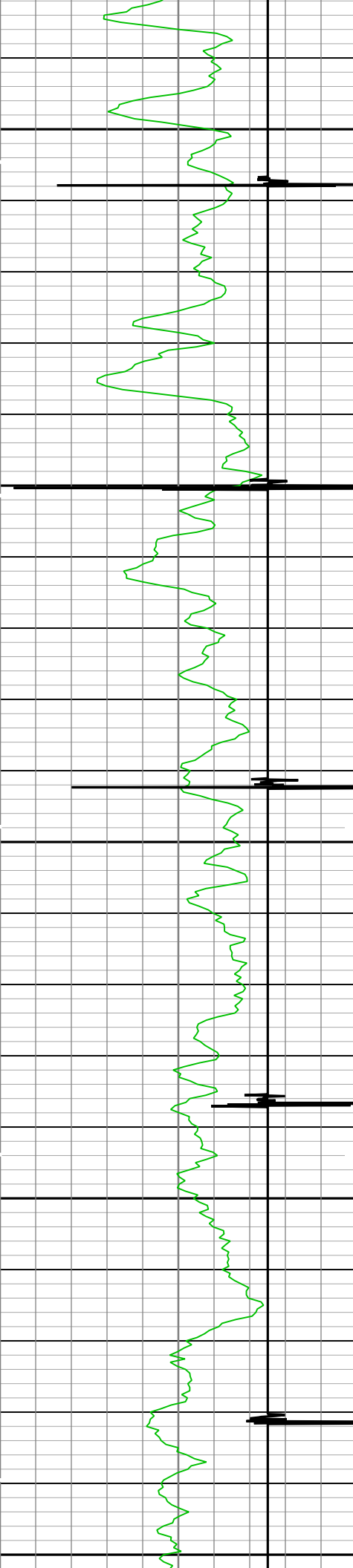
CIRF\_FIL





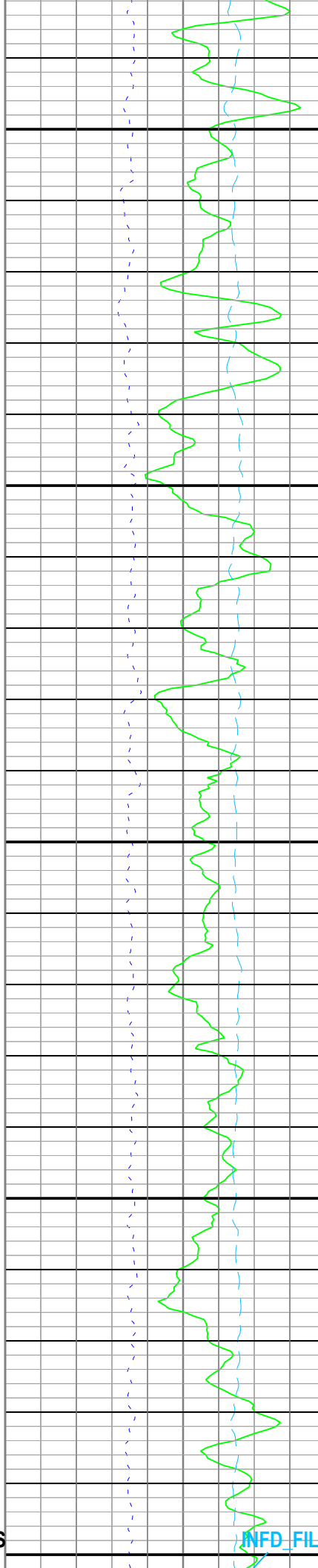




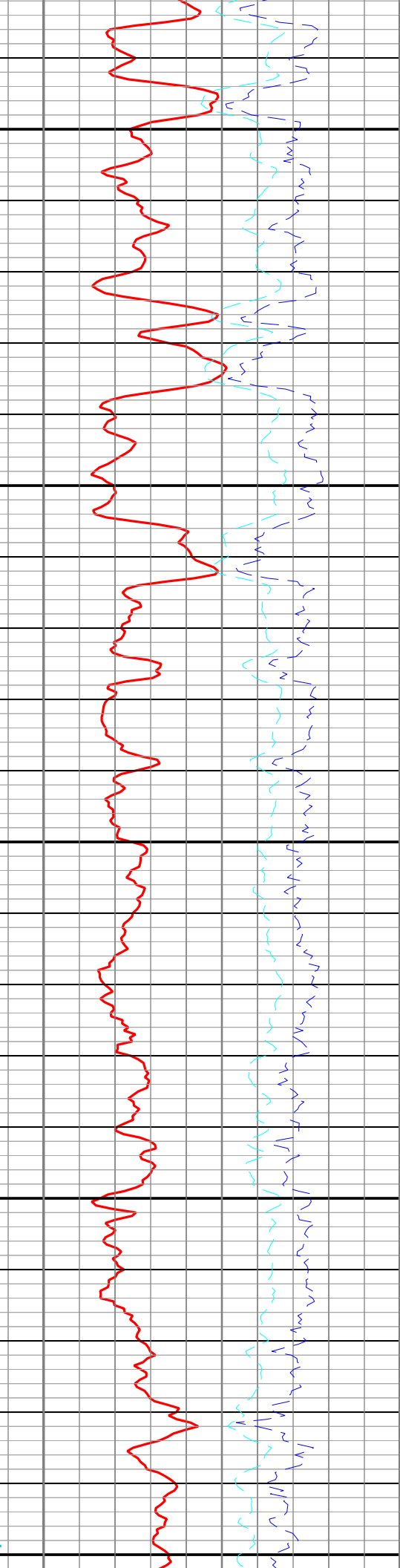


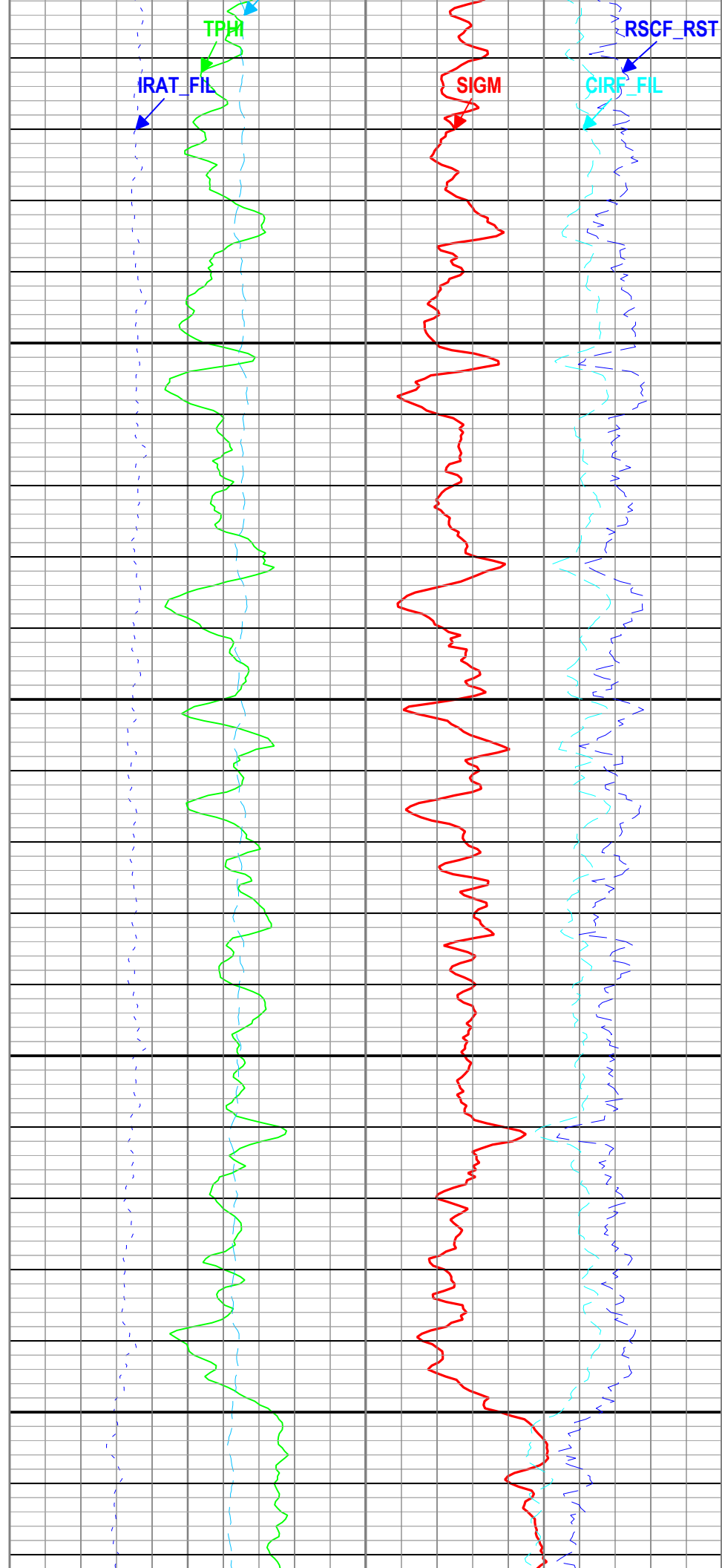
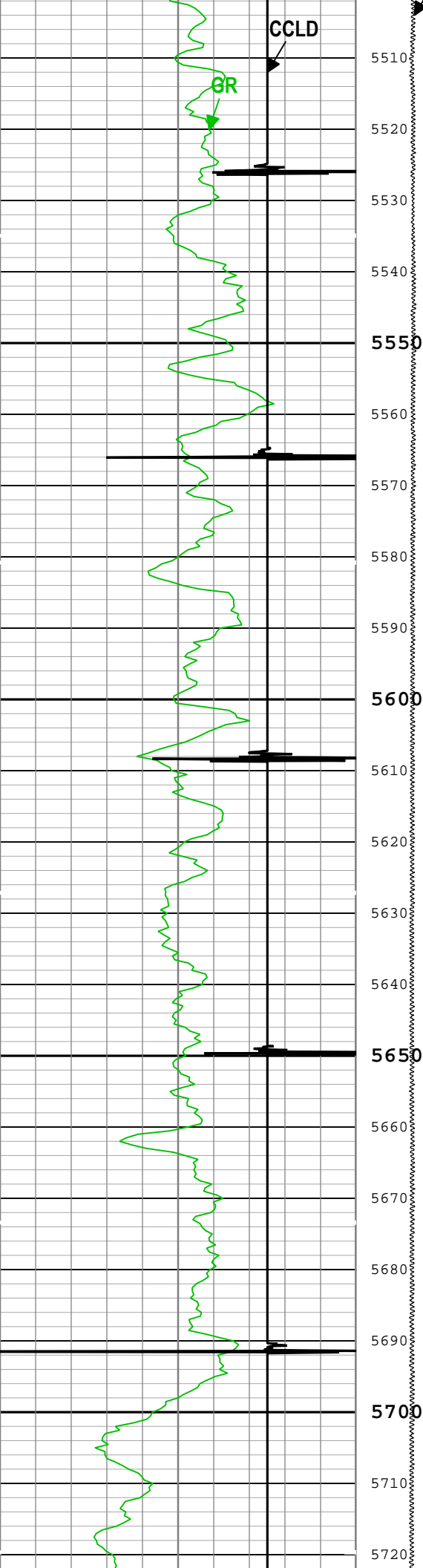
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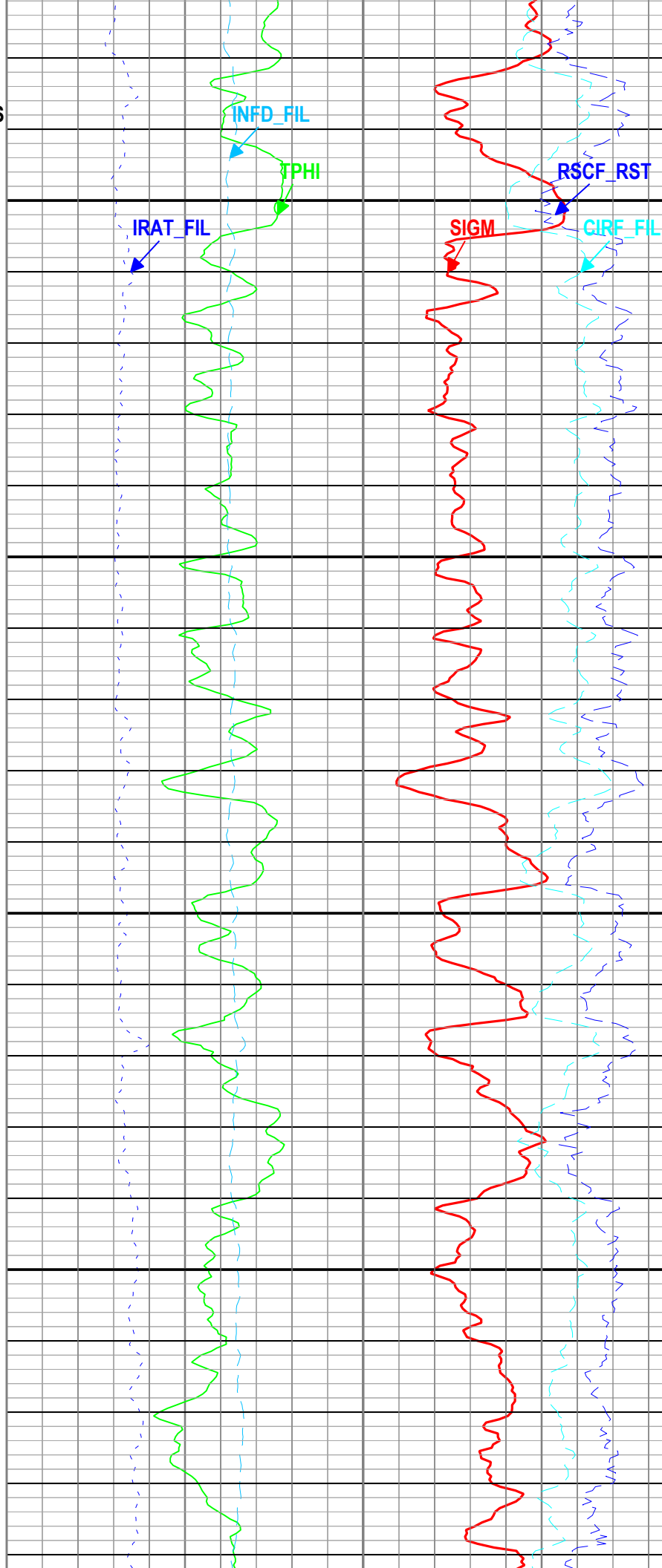
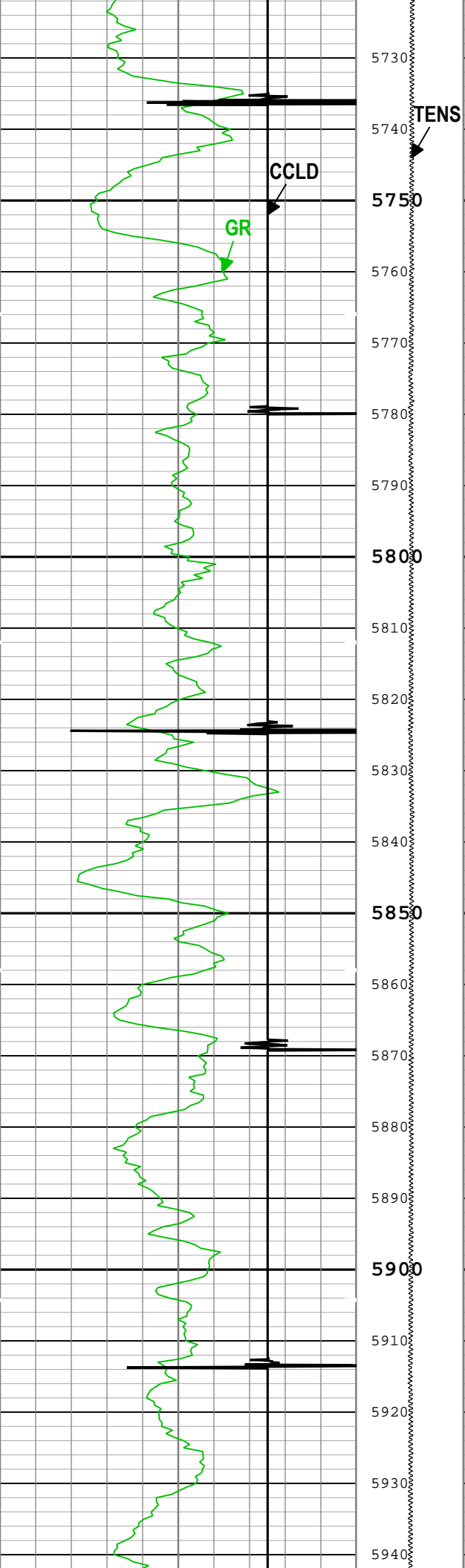
TENS



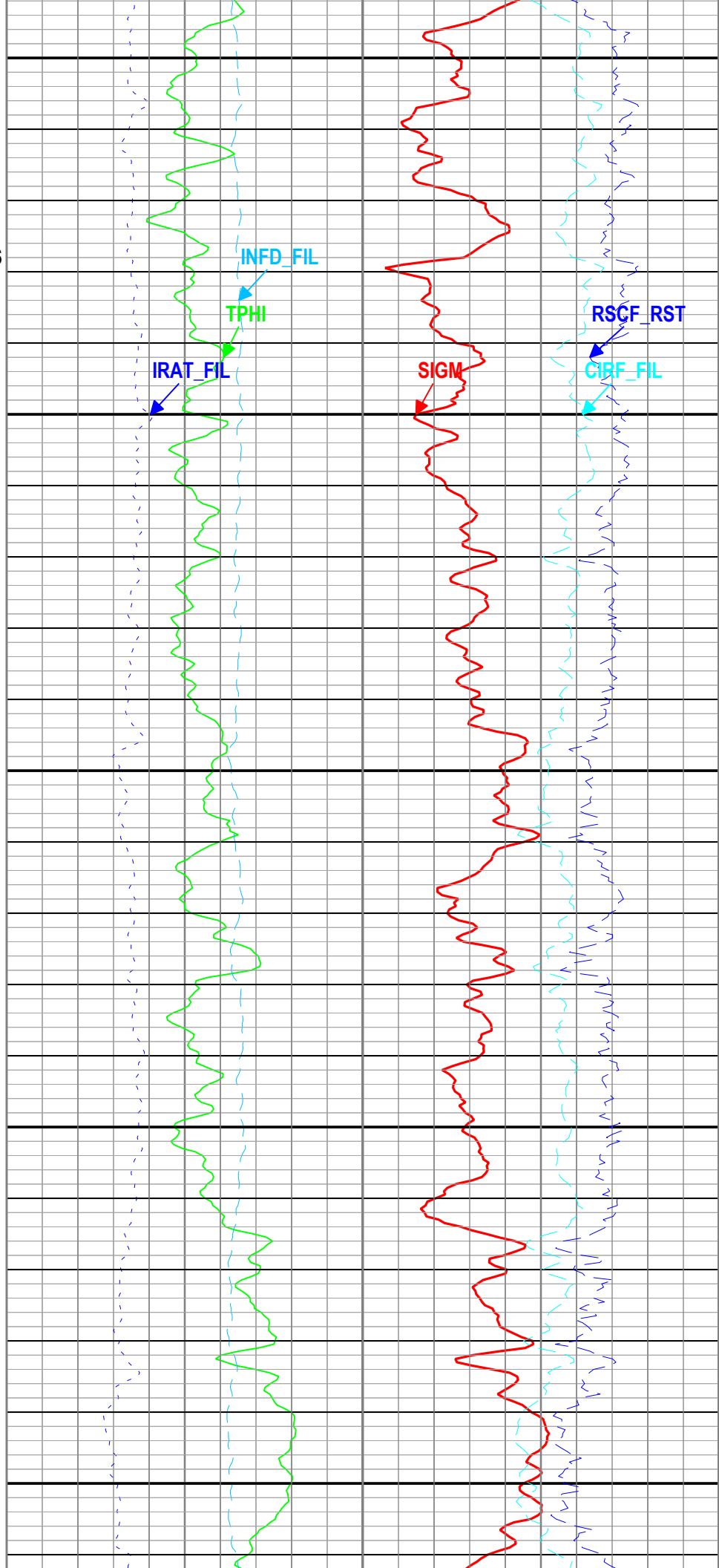
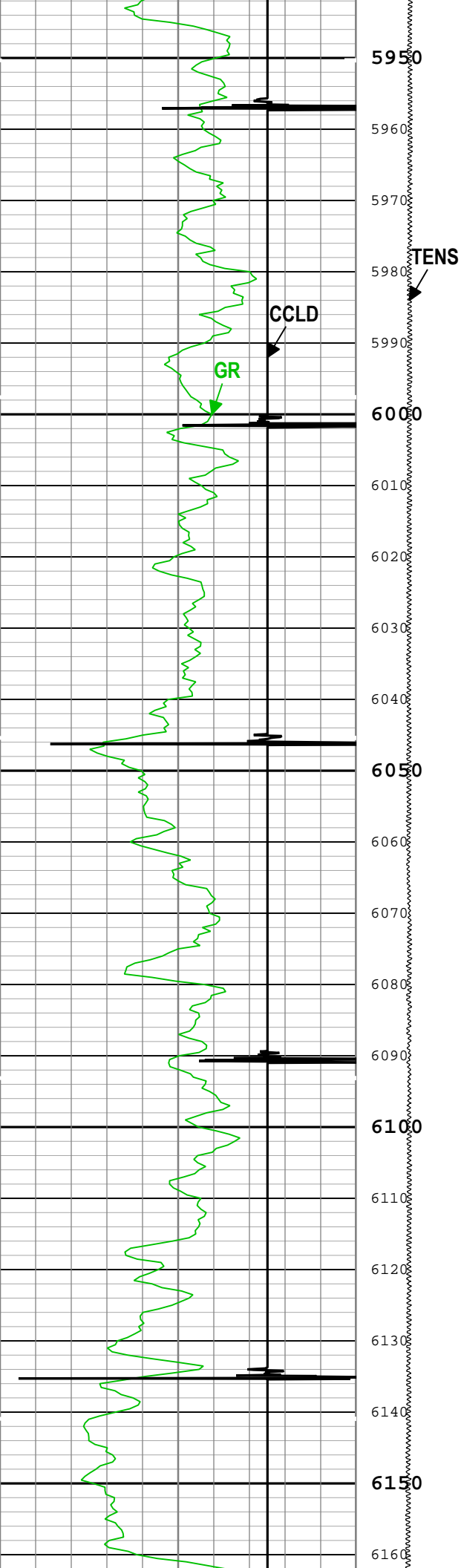
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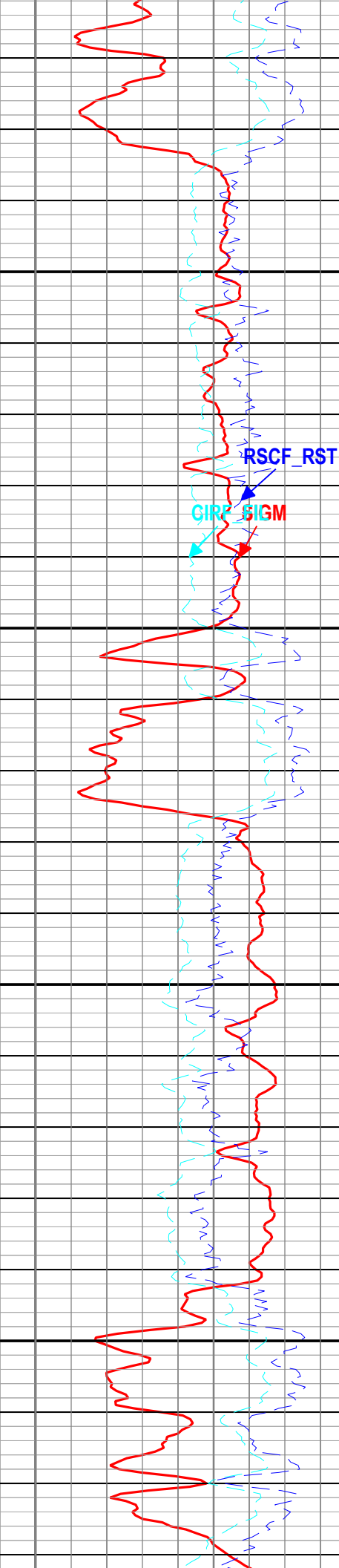
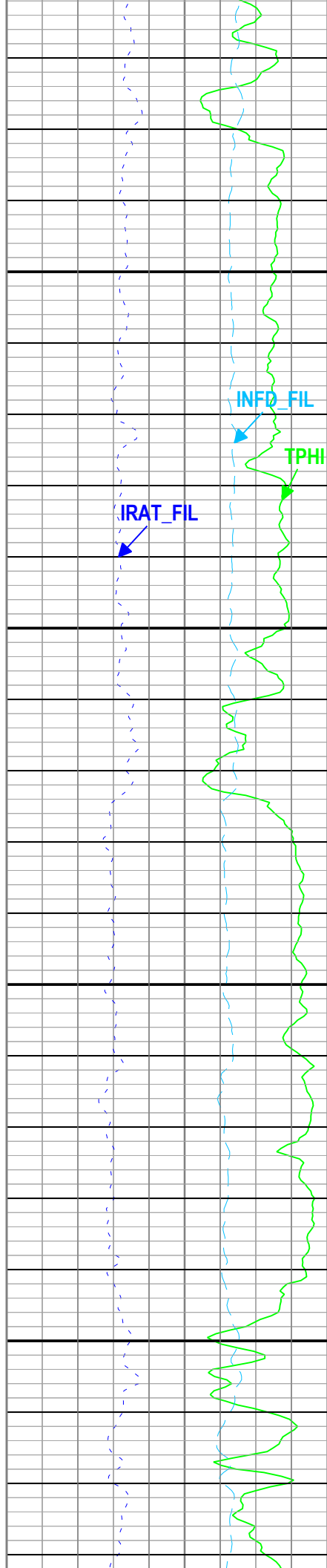
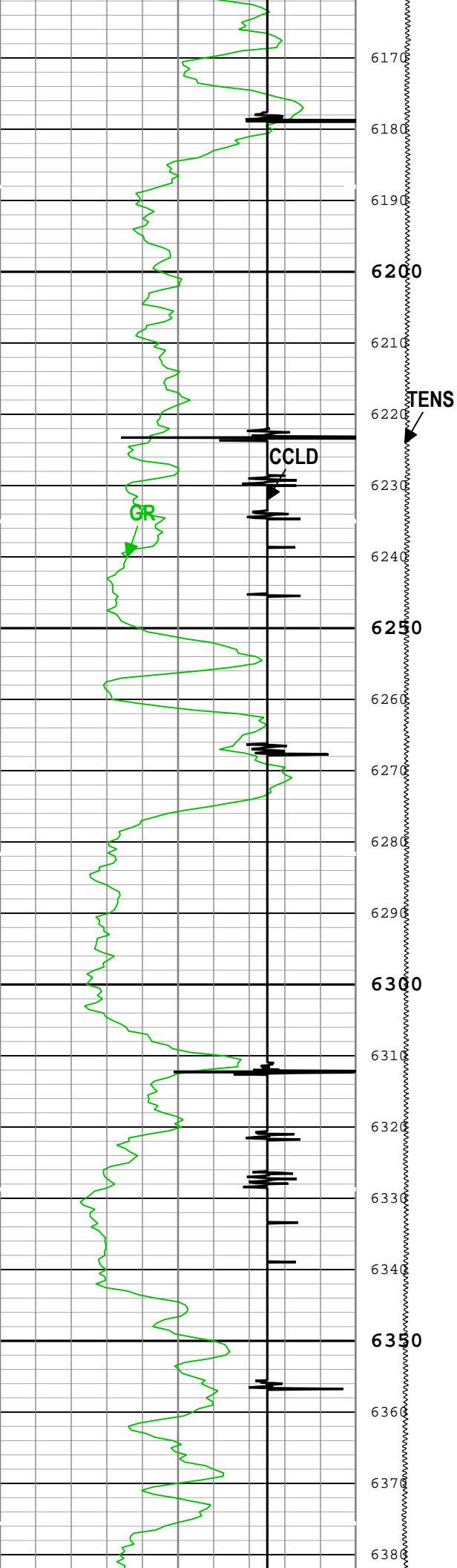


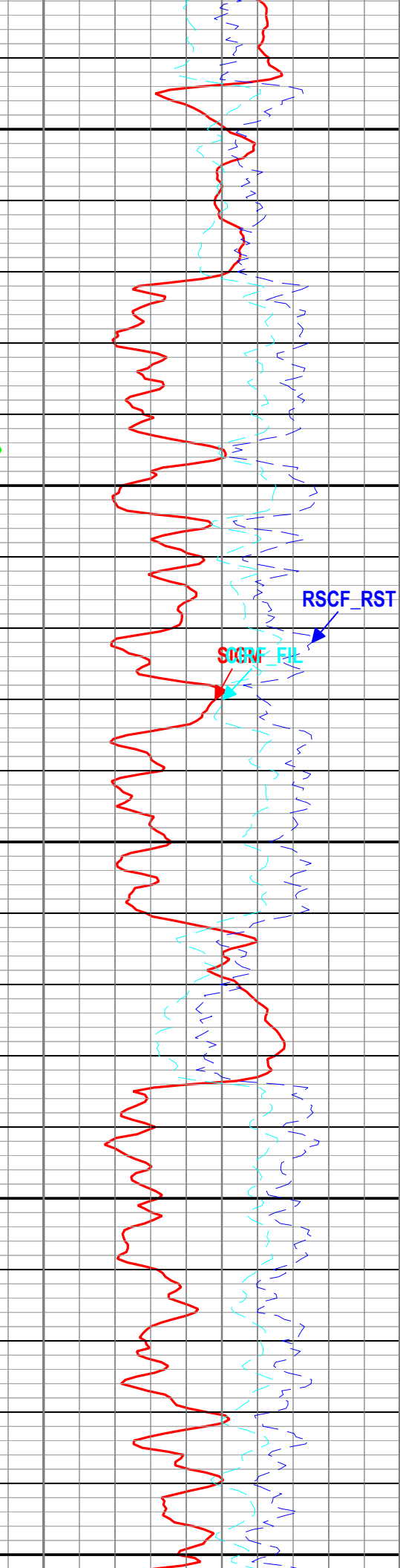
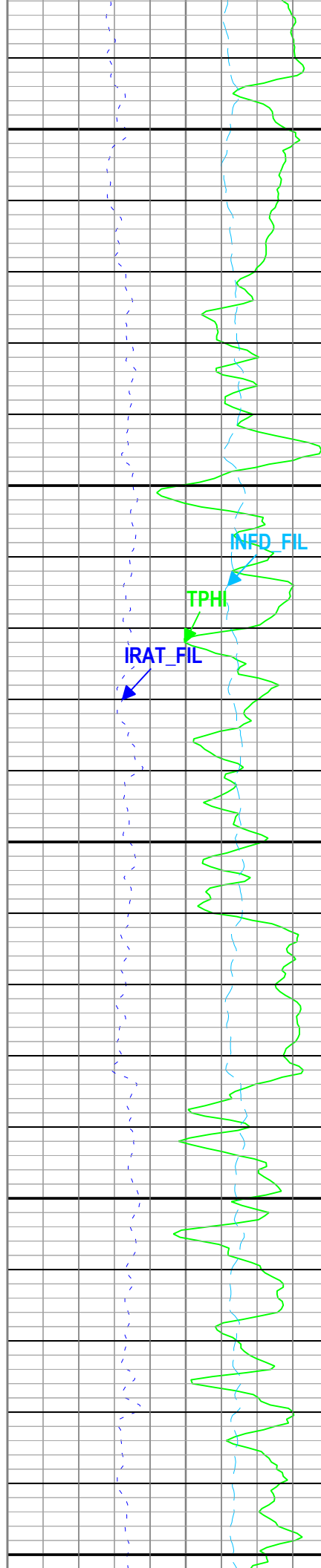
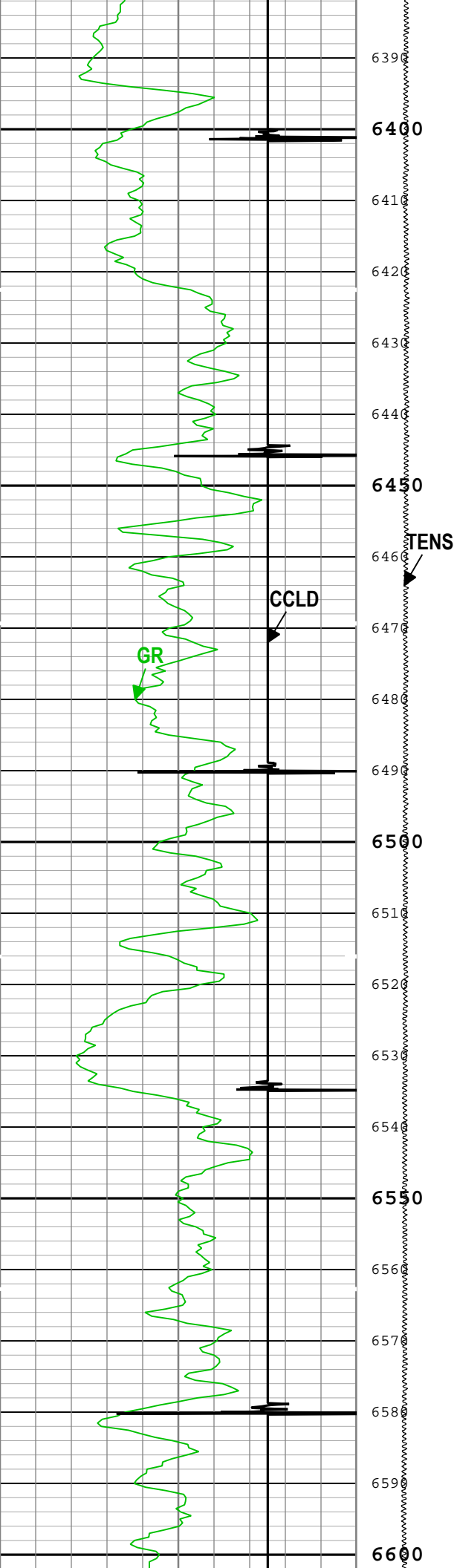


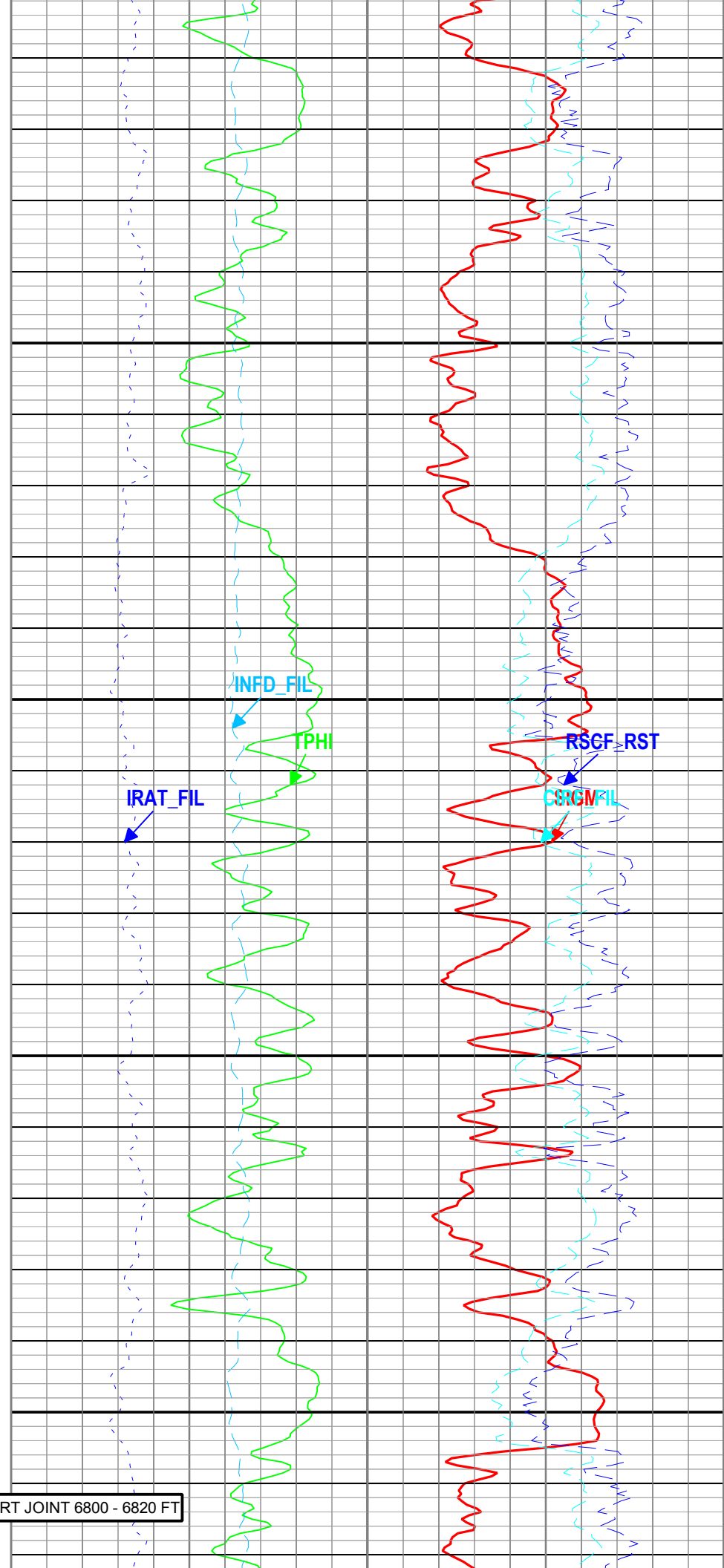
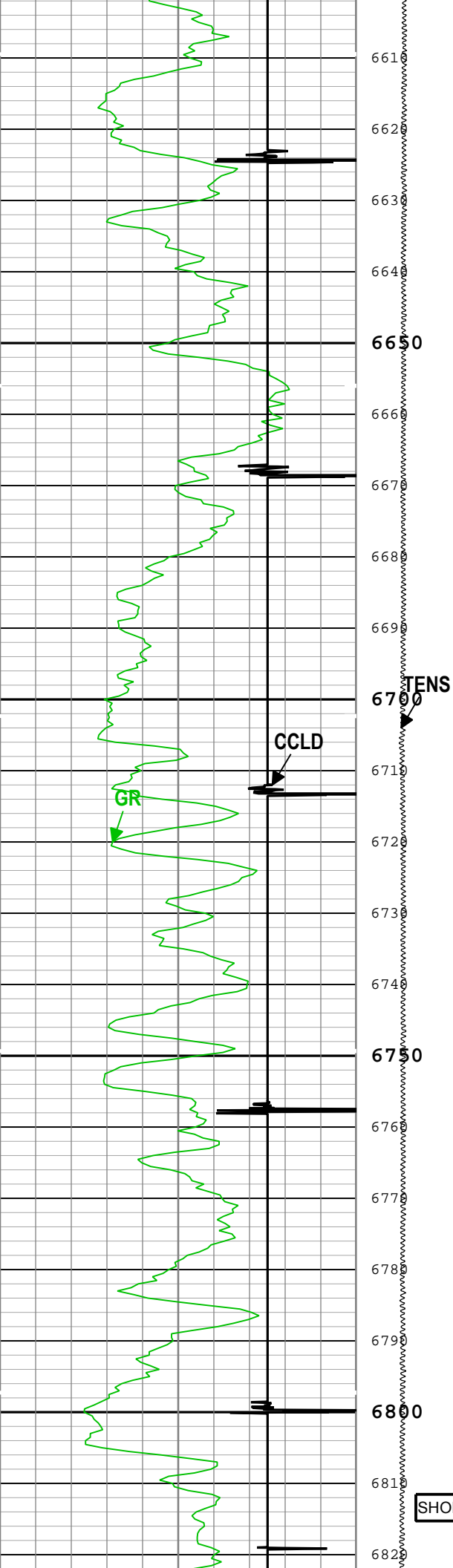


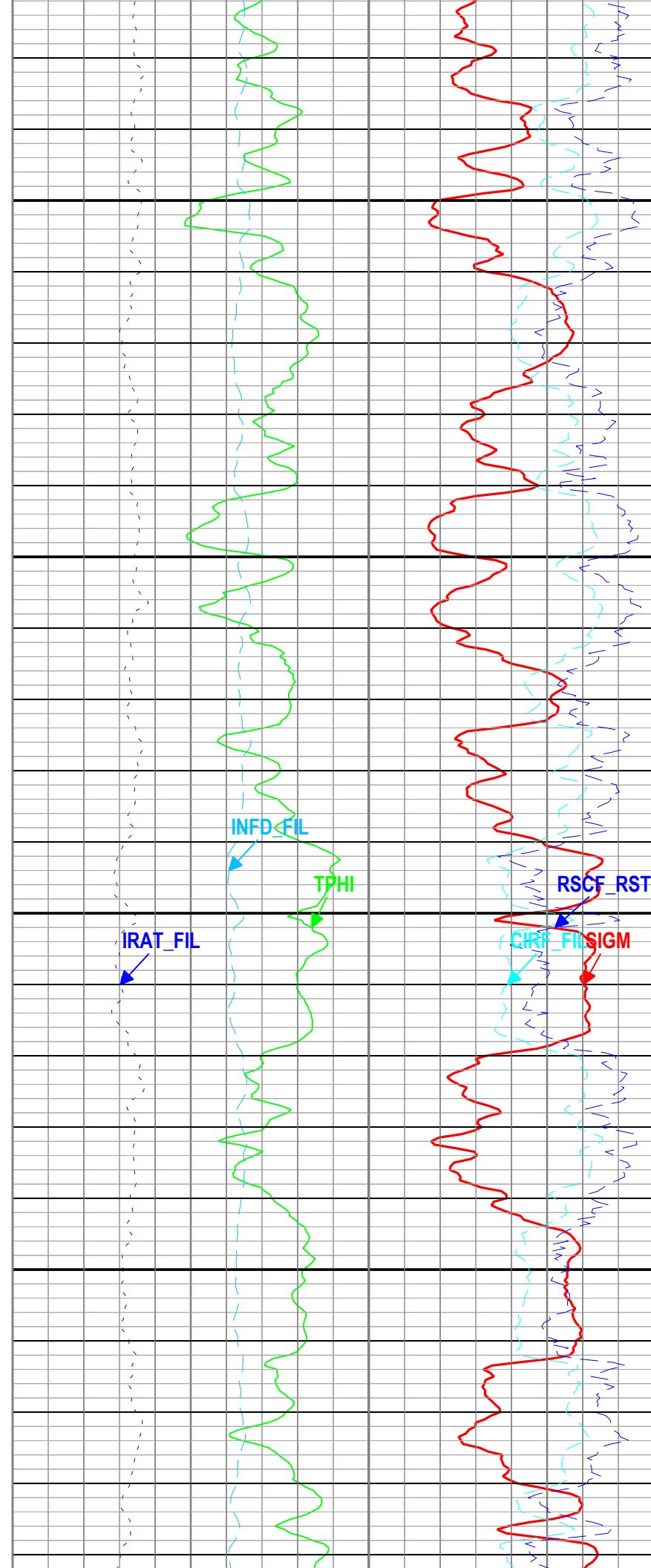
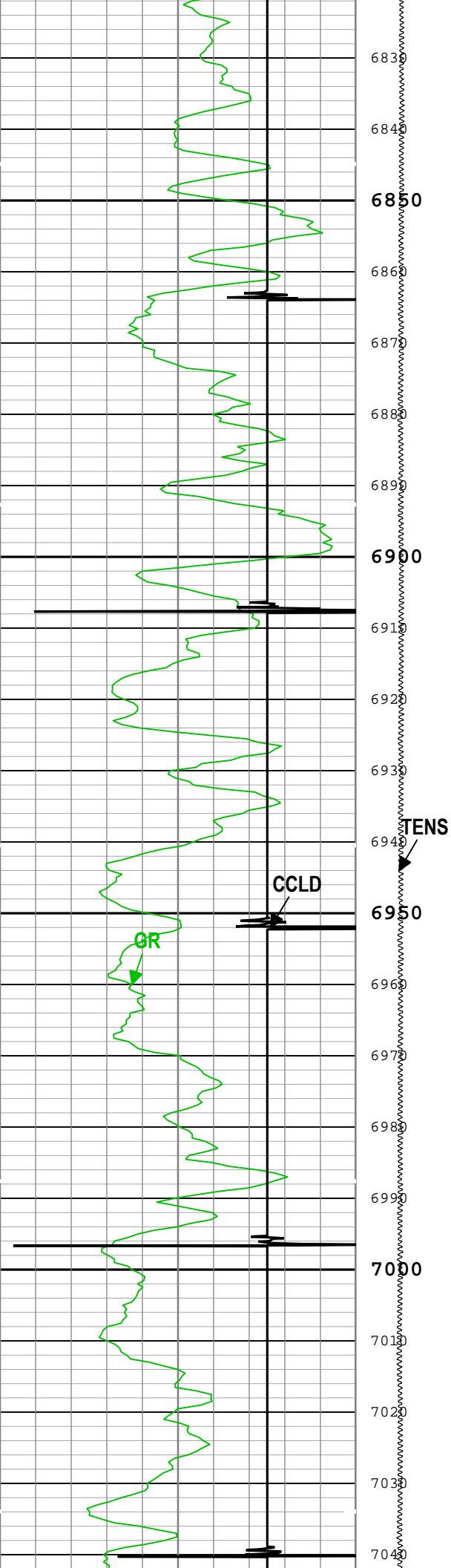




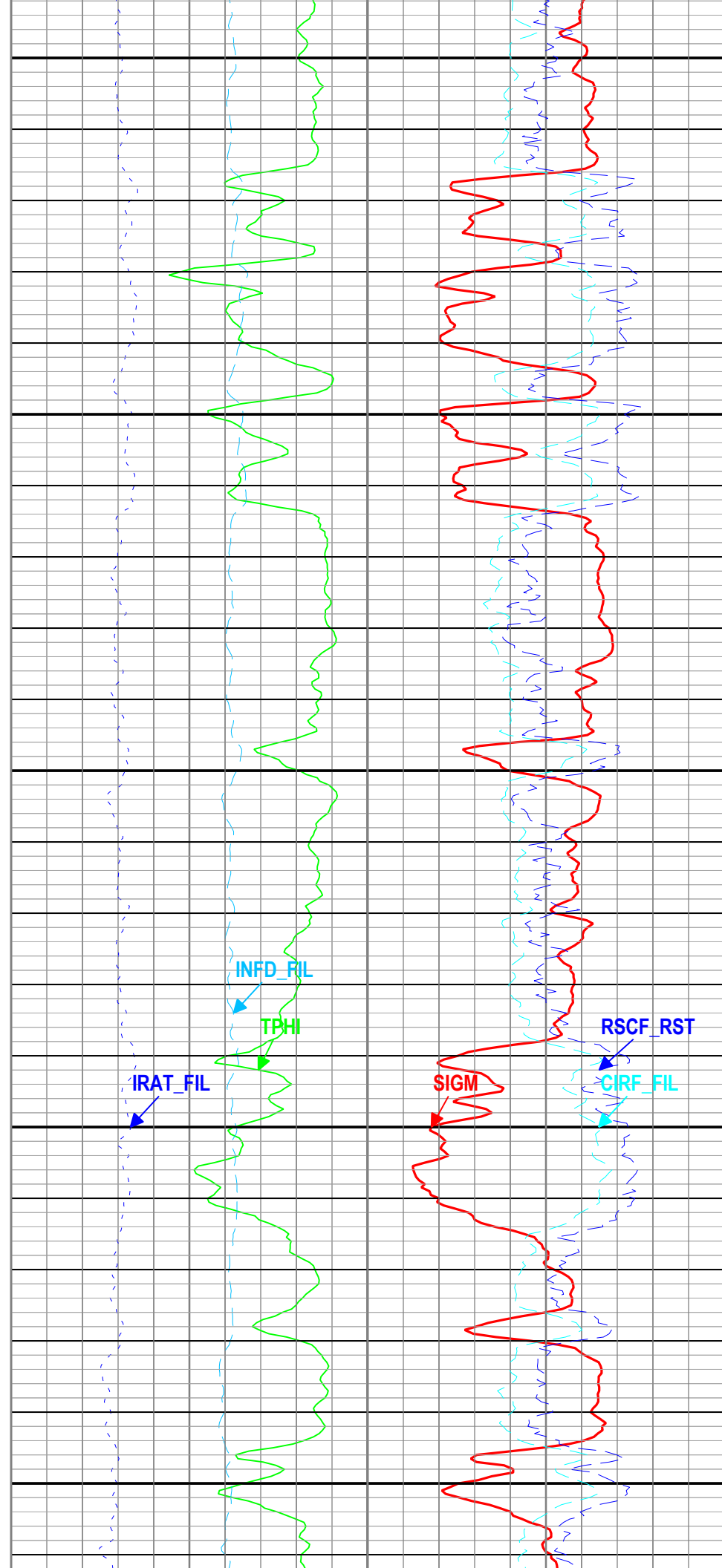
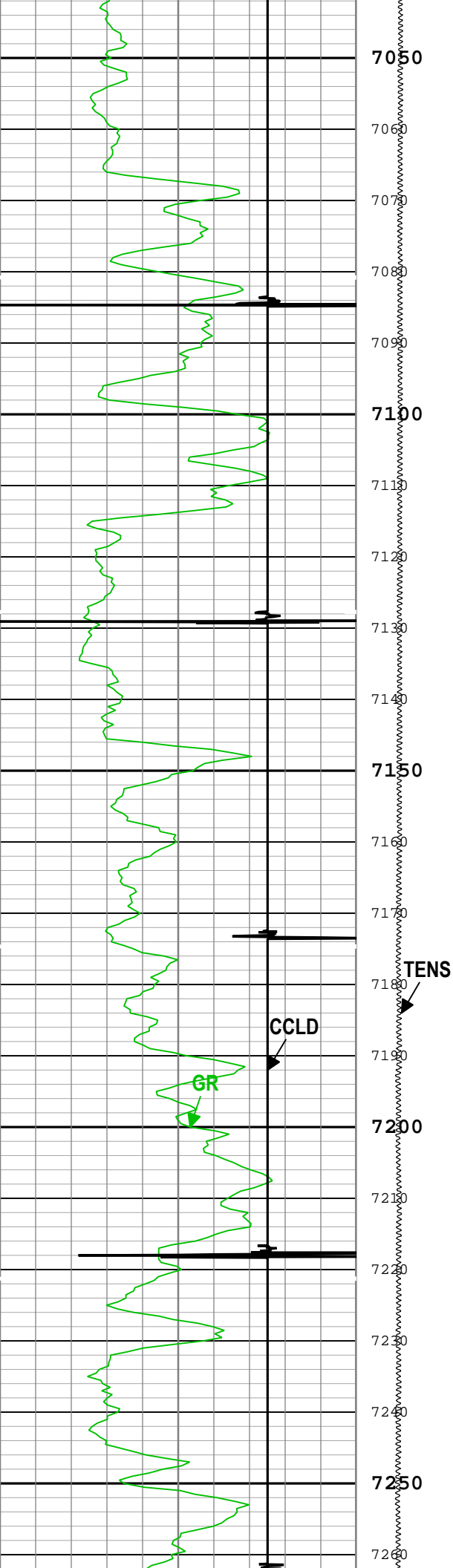


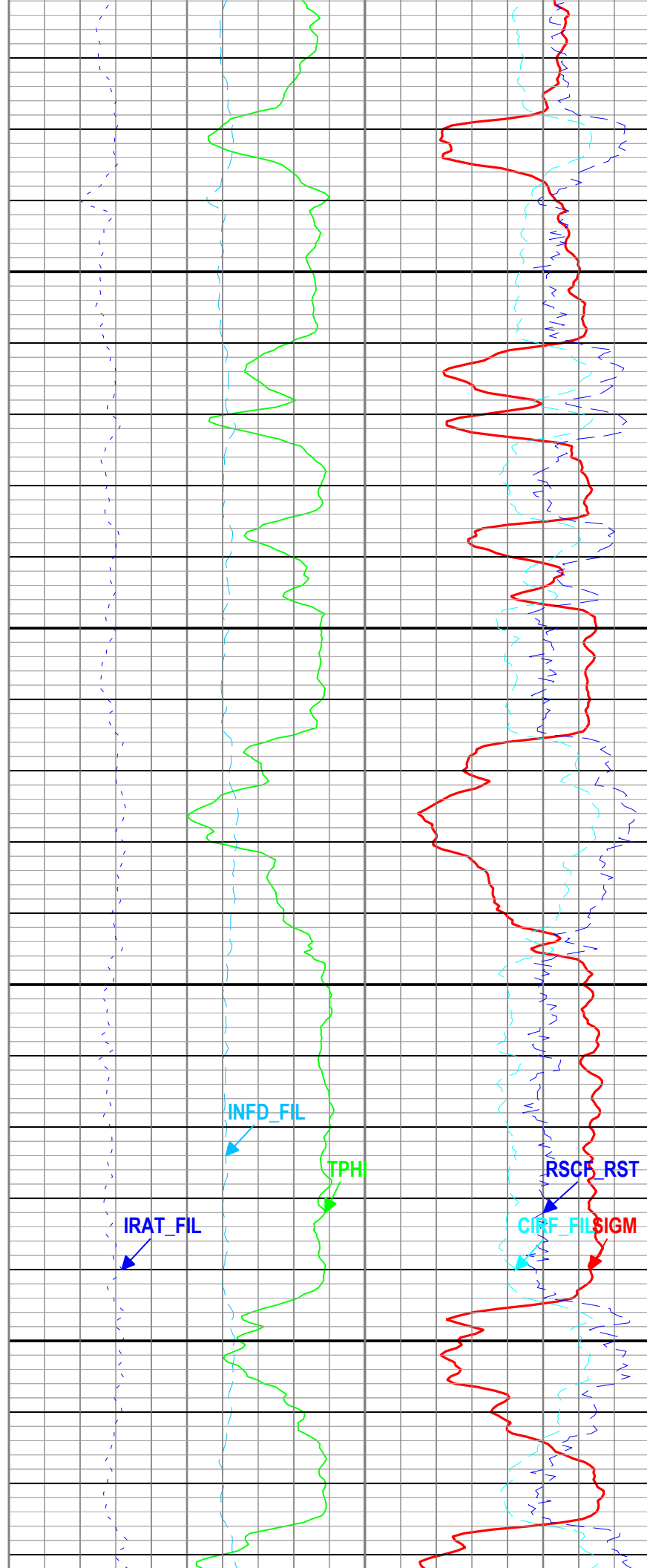
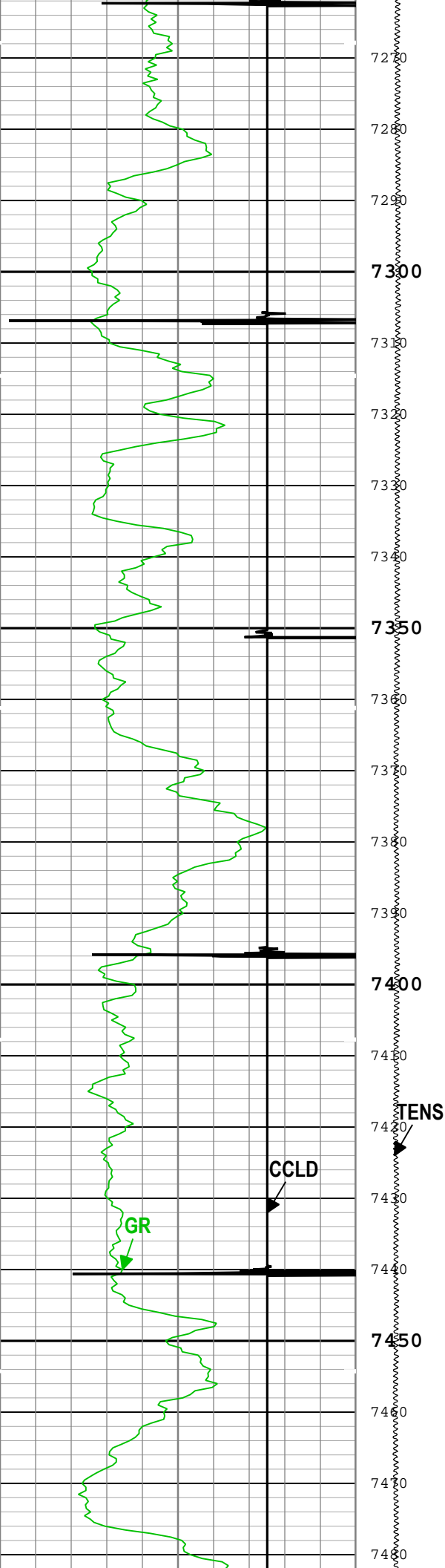


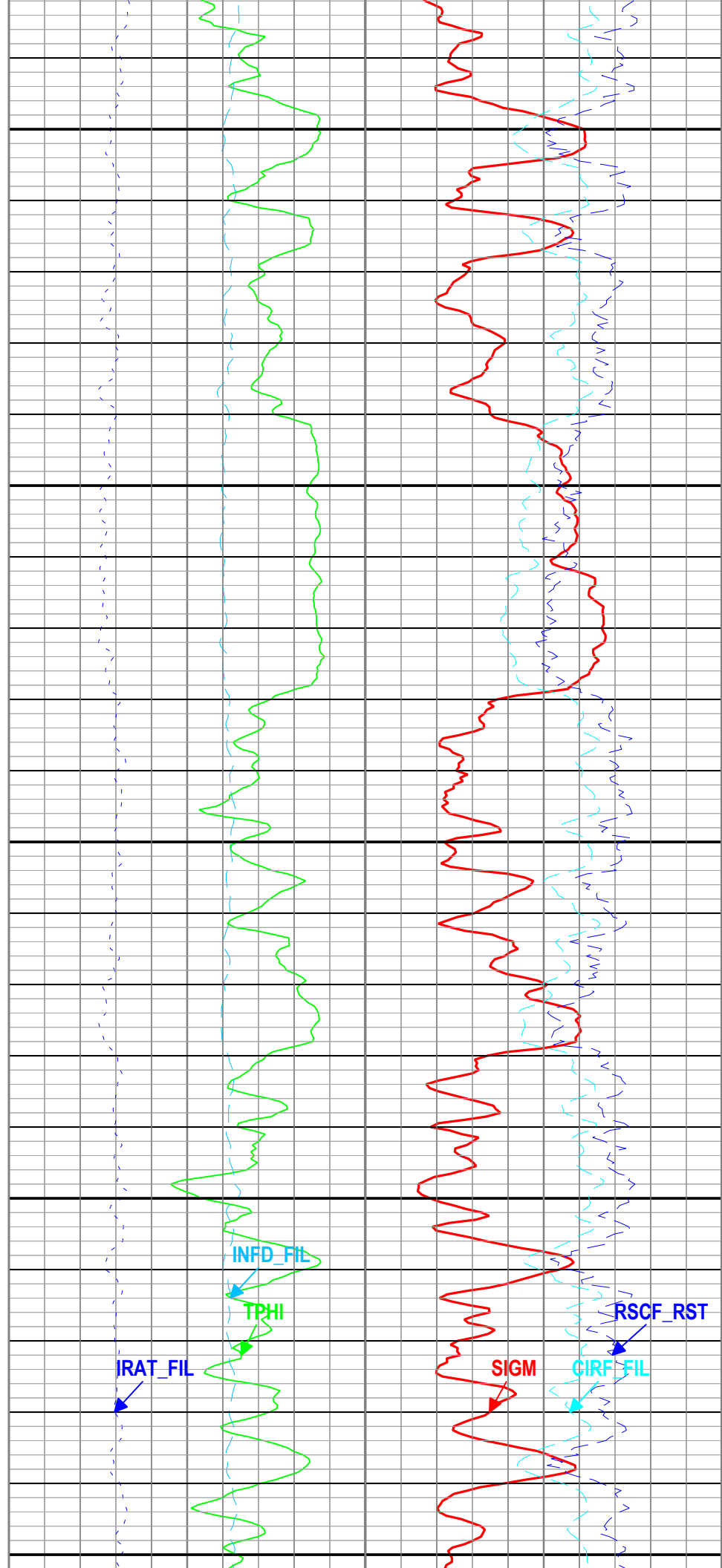
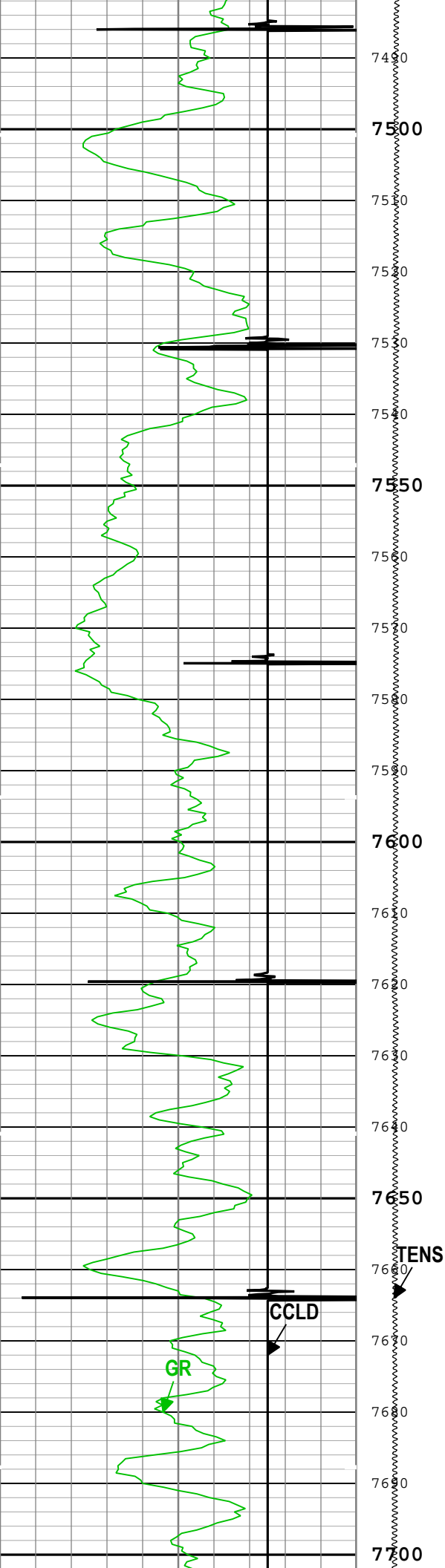


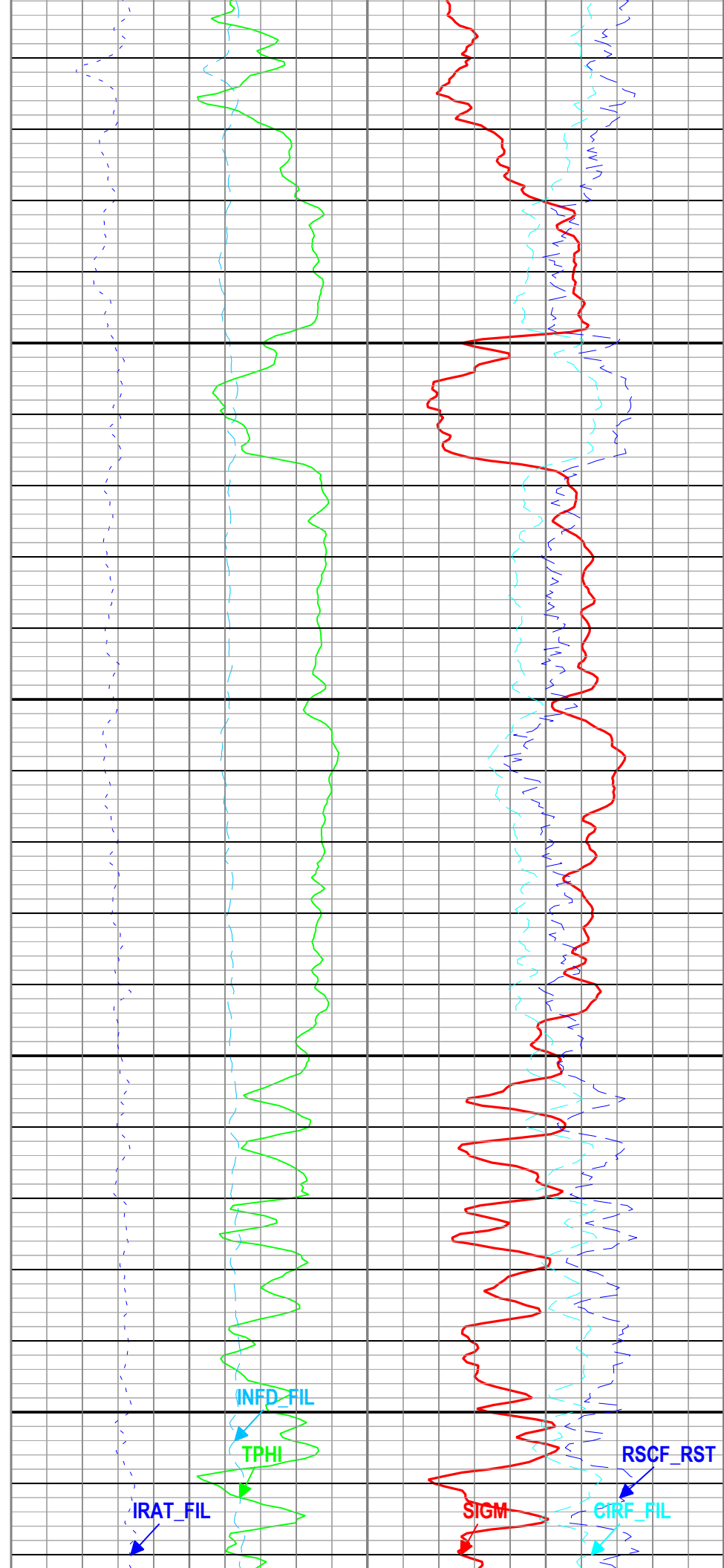
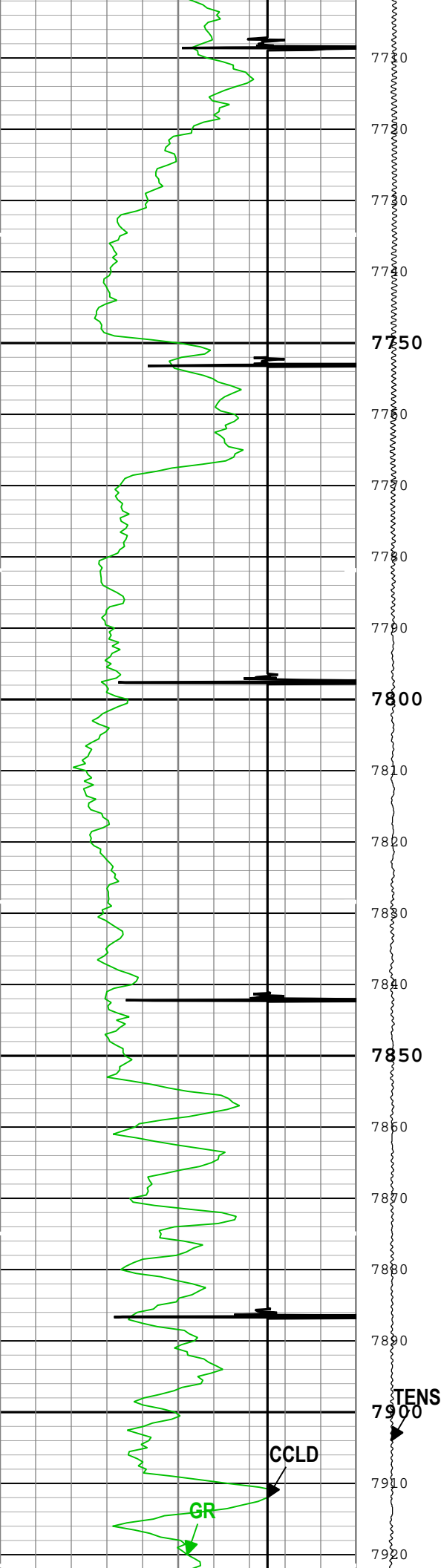


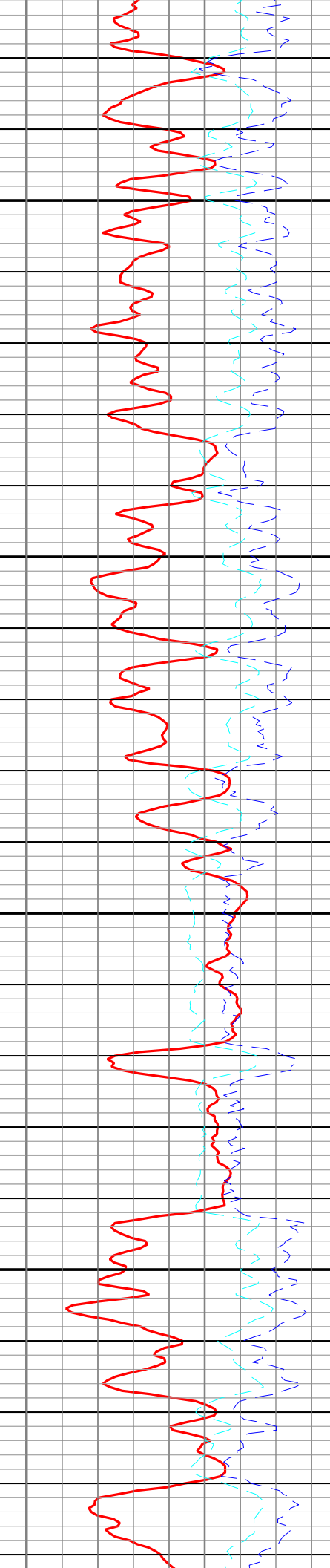
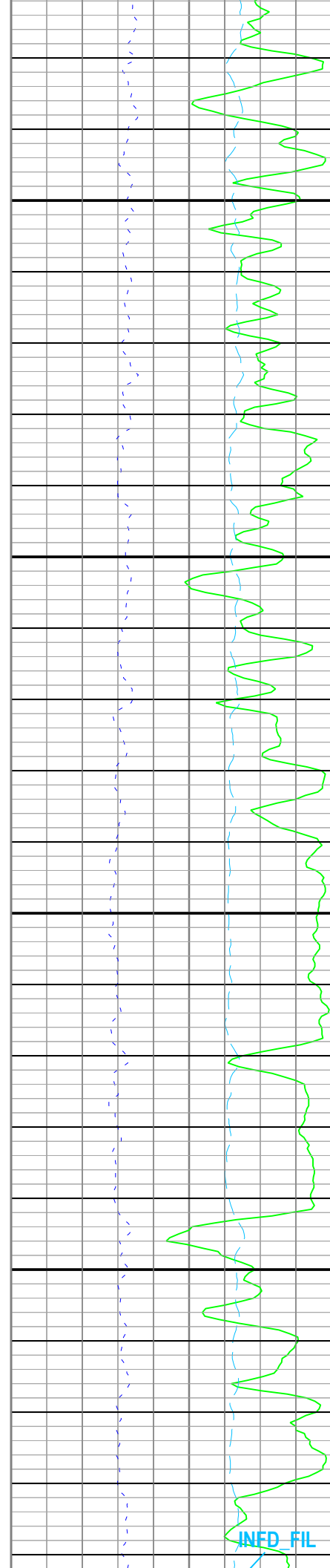
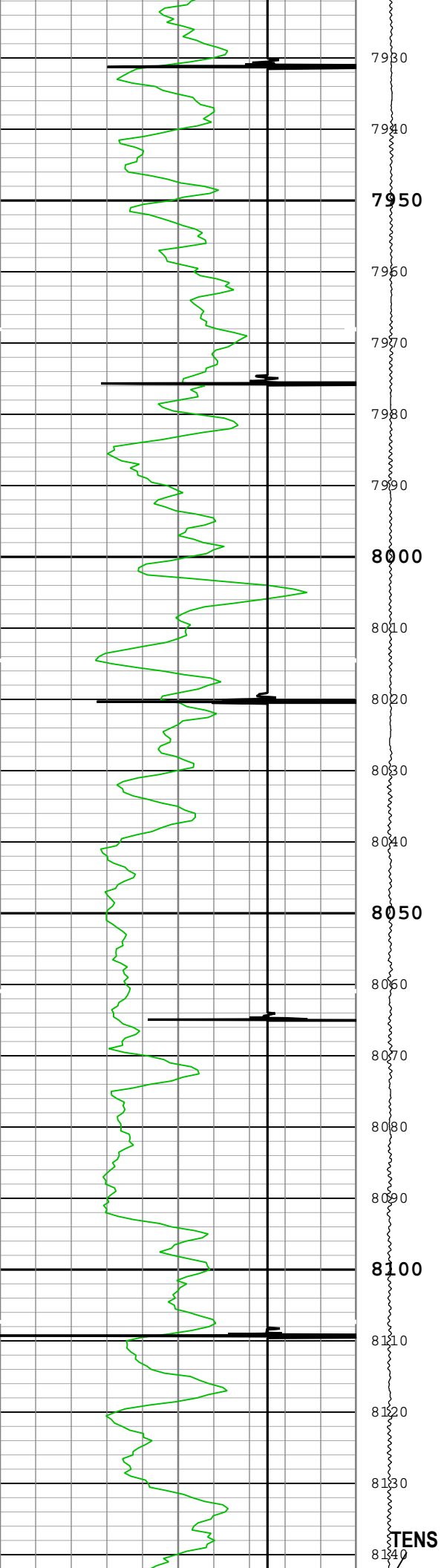




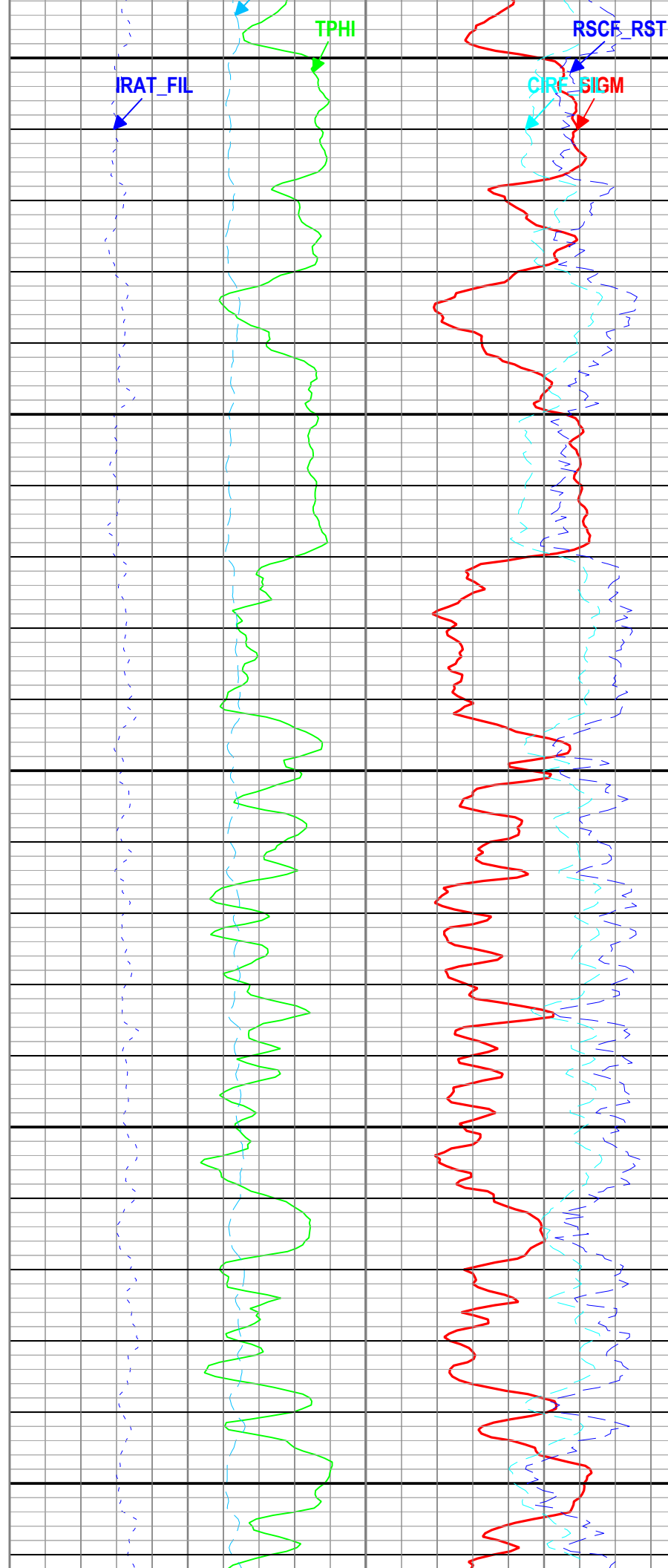
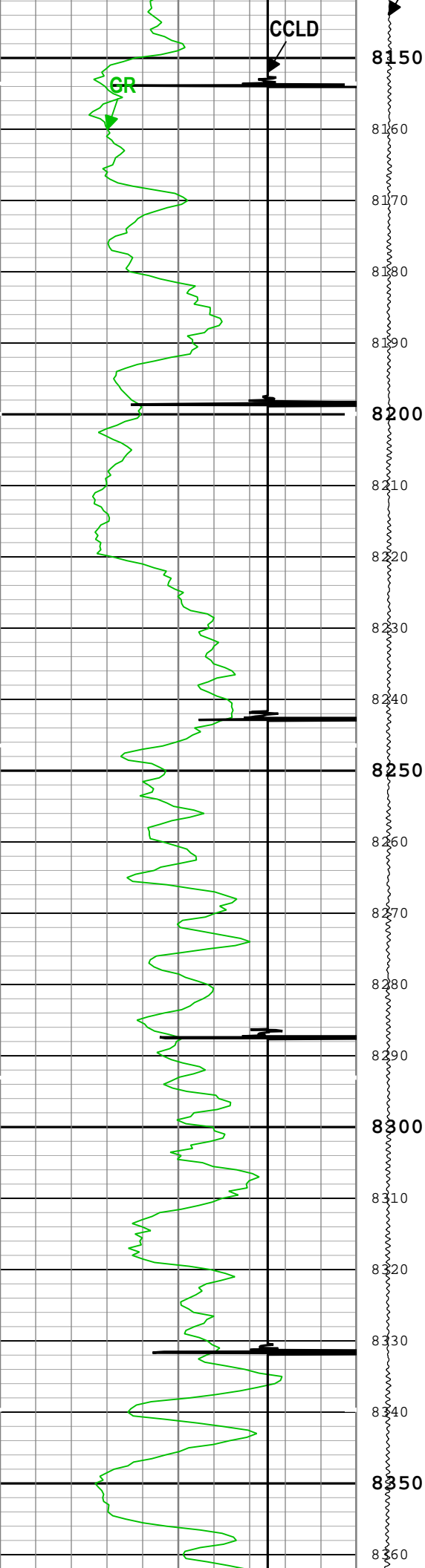


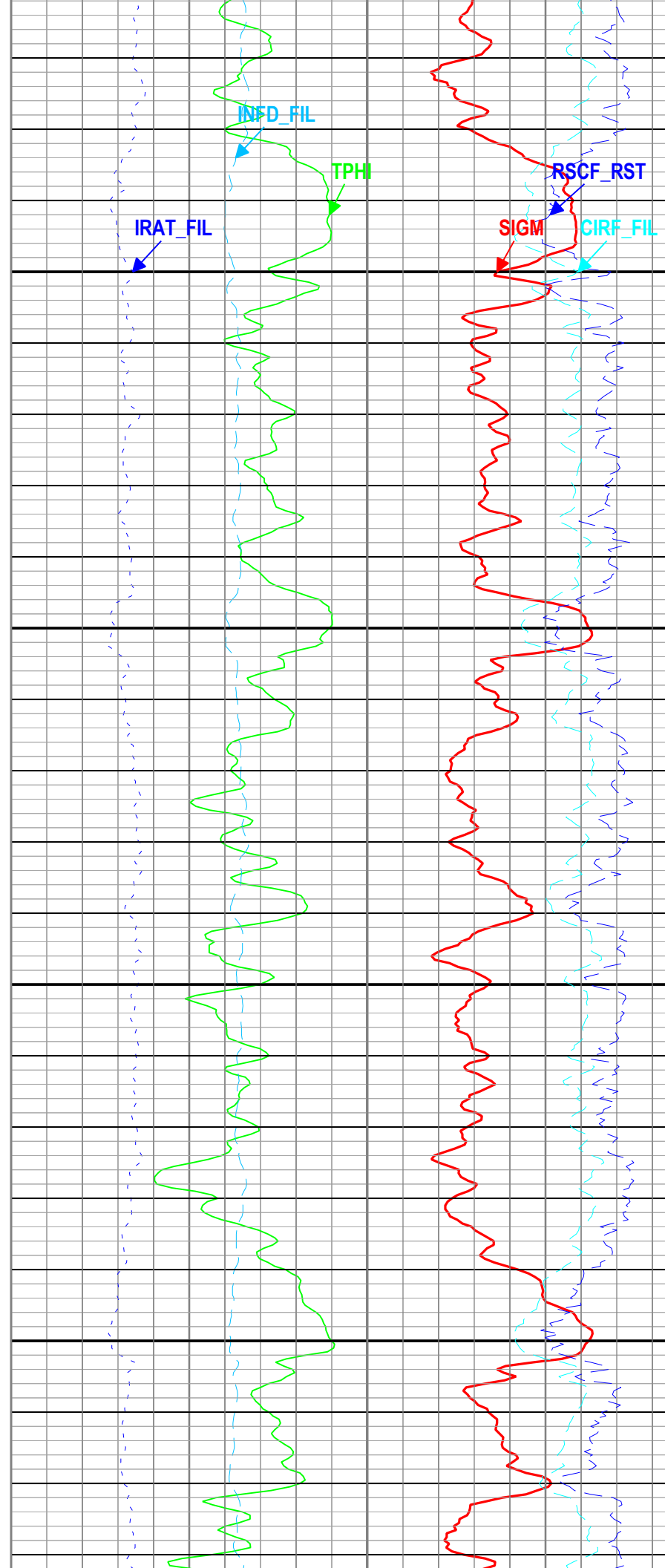
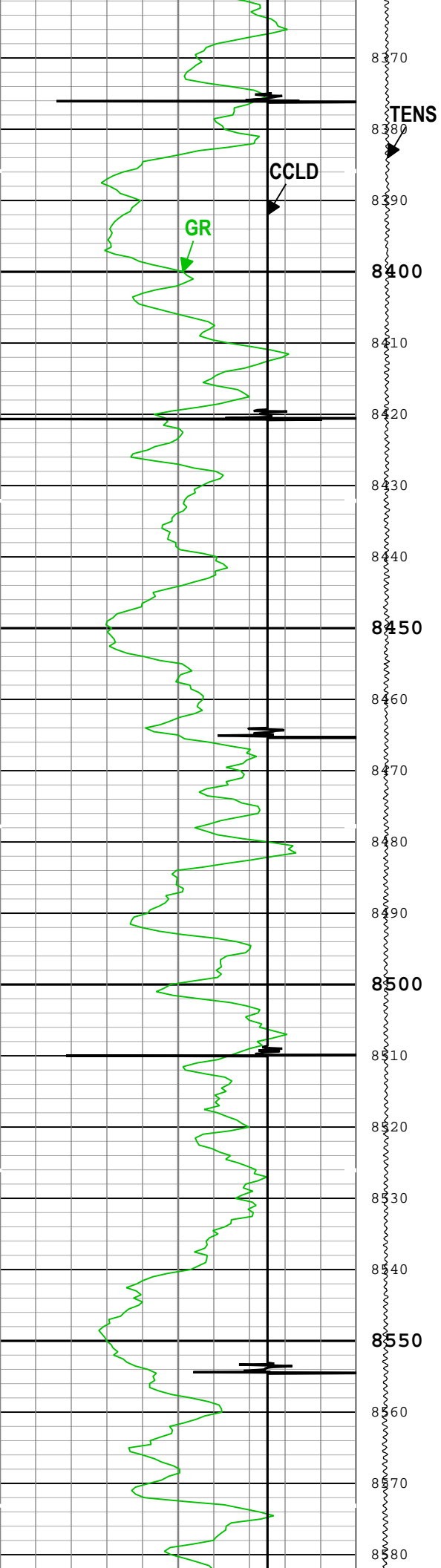


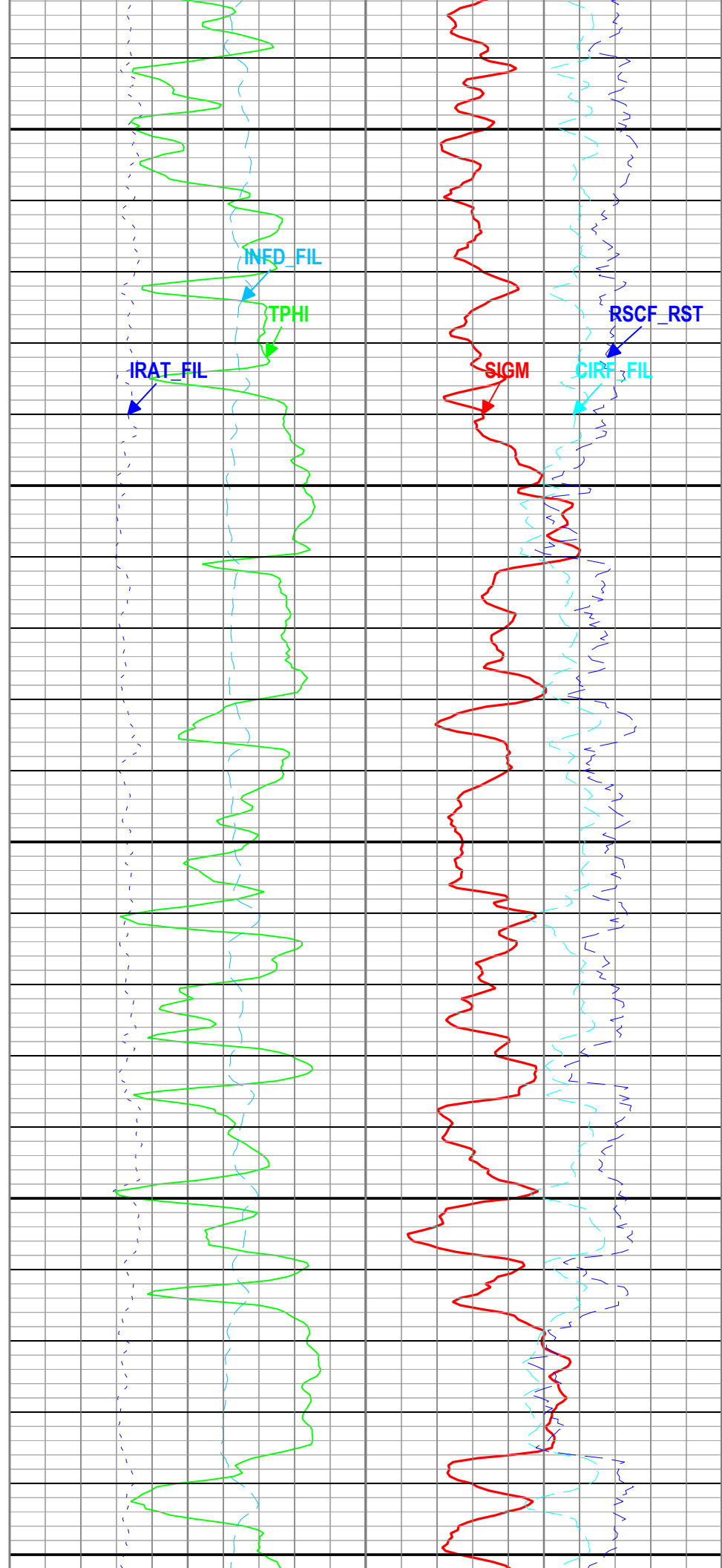
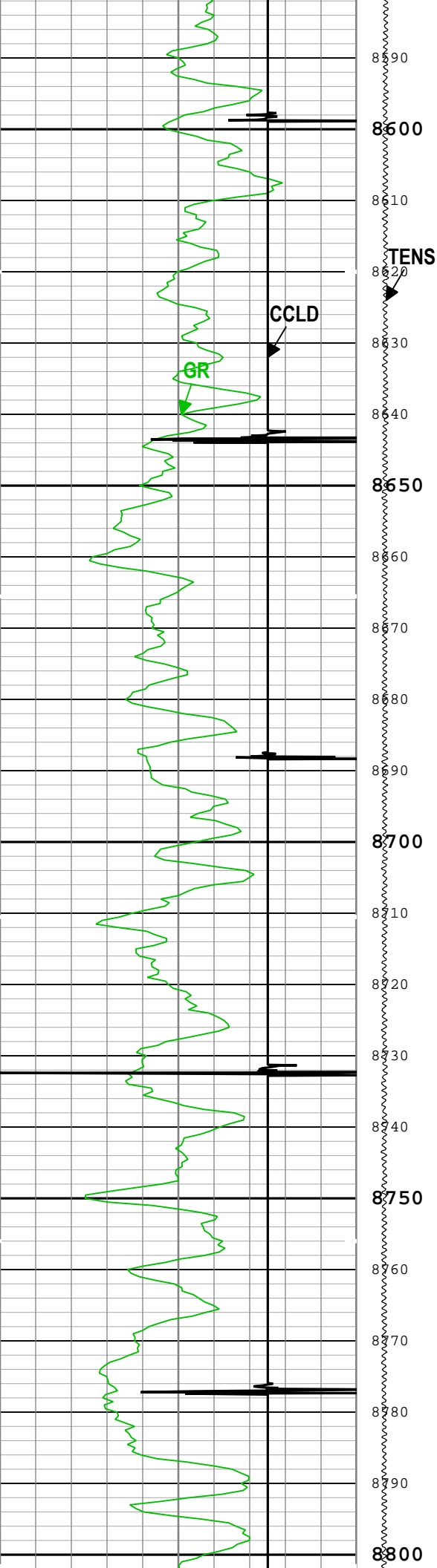


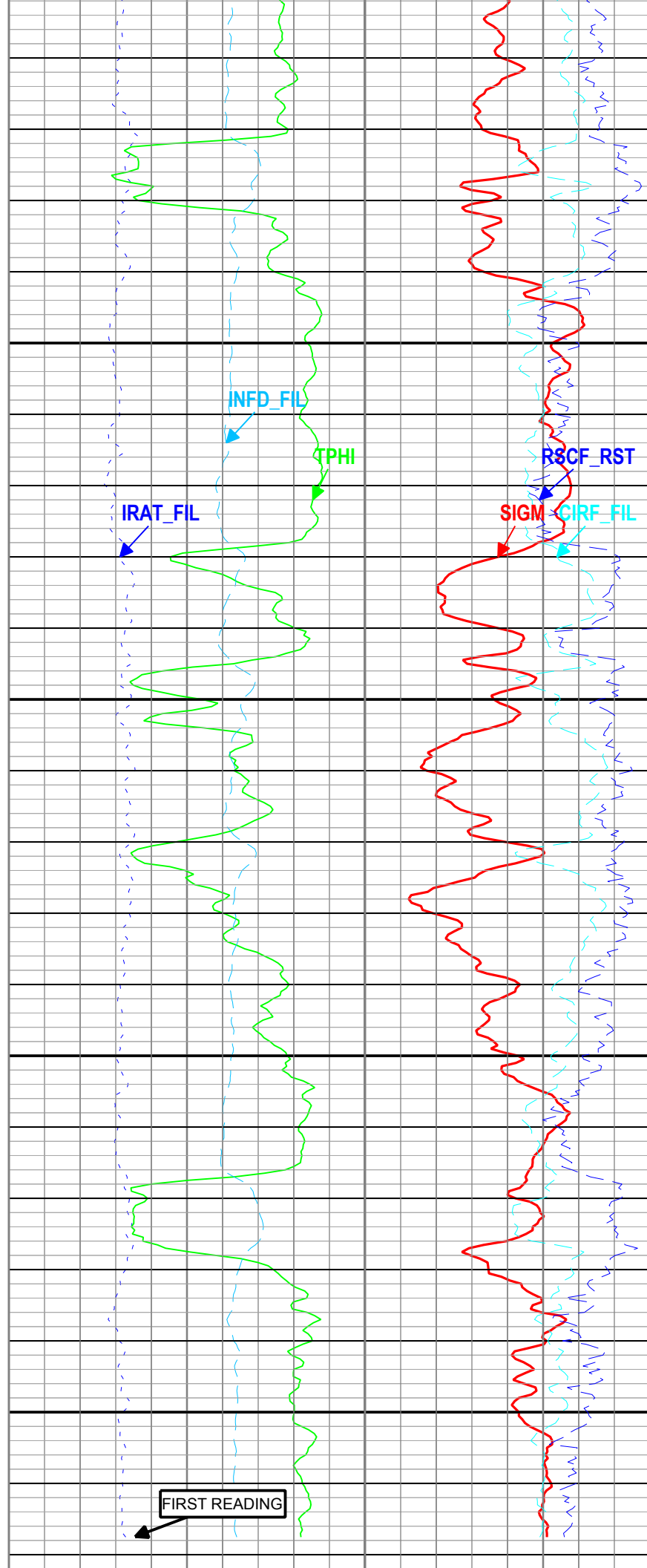
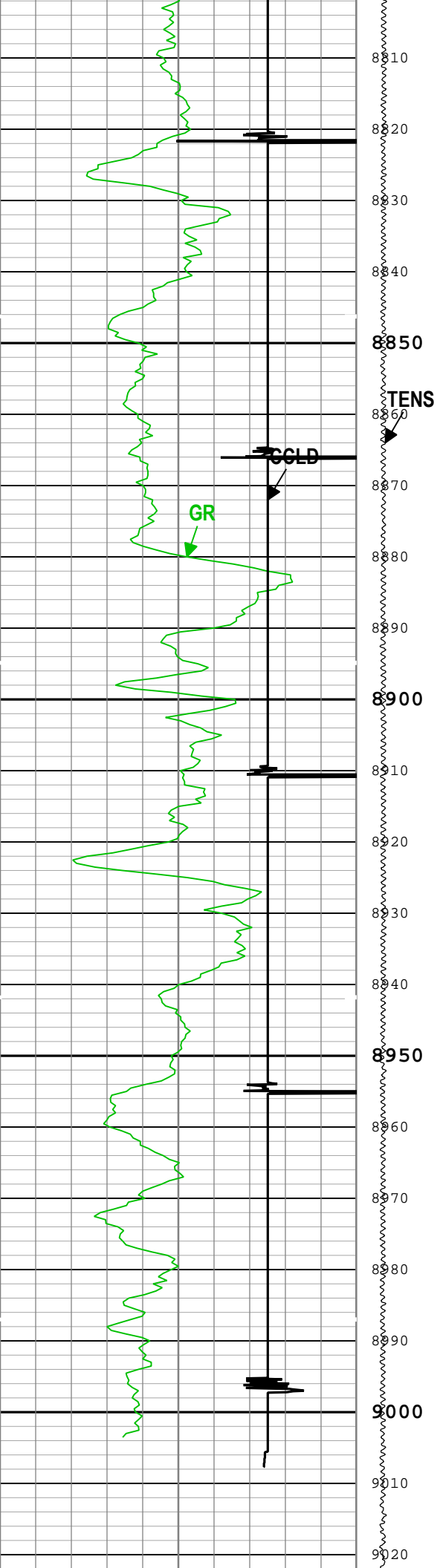


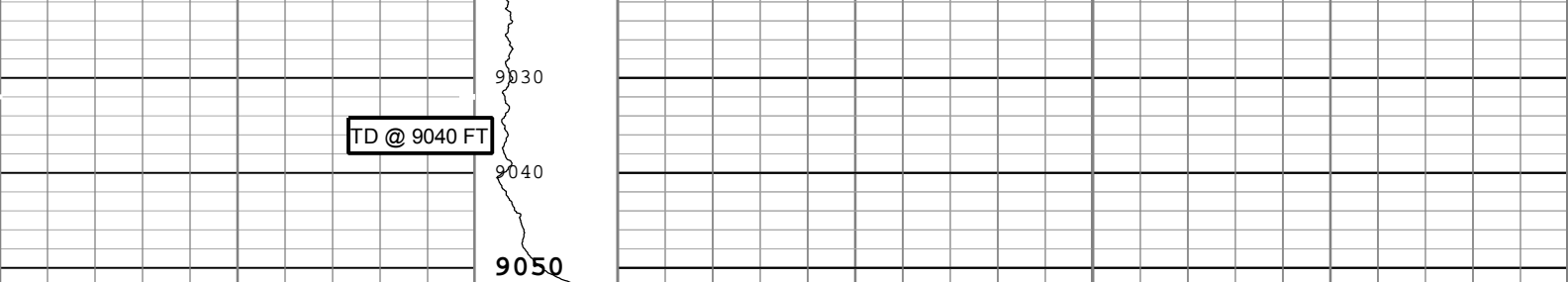












Gamma Ray (GR) PSTP-A		
0	gAPI	150
CCL Discriminated Amplitude (CCLD) PSTP-A		
-3	V	1

Cable Tension (TENS)	
3000 lbf	0

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	0
Thermal Decay Porosity (TPHI) RST-C		Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C	
0.6	ft3/ft3	0	0
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C		45	0
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 10:43:16

## 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	2500	2525
BS	8.75	2525	9051.69

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	12 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

## ONE

## Repeat Pass



# Software Version

Acquisition System

Maxwell 2017 SP3

Version

7.3.92069.3100

# Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[2]:Up	Up	8830.84 ft	9063.55 ft	21-Dec-2017 10:48:23 AM	21-Dec-2017 10:56:28 AM	ON	0.00 ft	Yes

All depths are referenced to toolstring zero

# Log

Company:Caerus Operating LLC Well:Puckett 15A-23 697

ONE: Log[2]:Up:S008

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 10:43:21

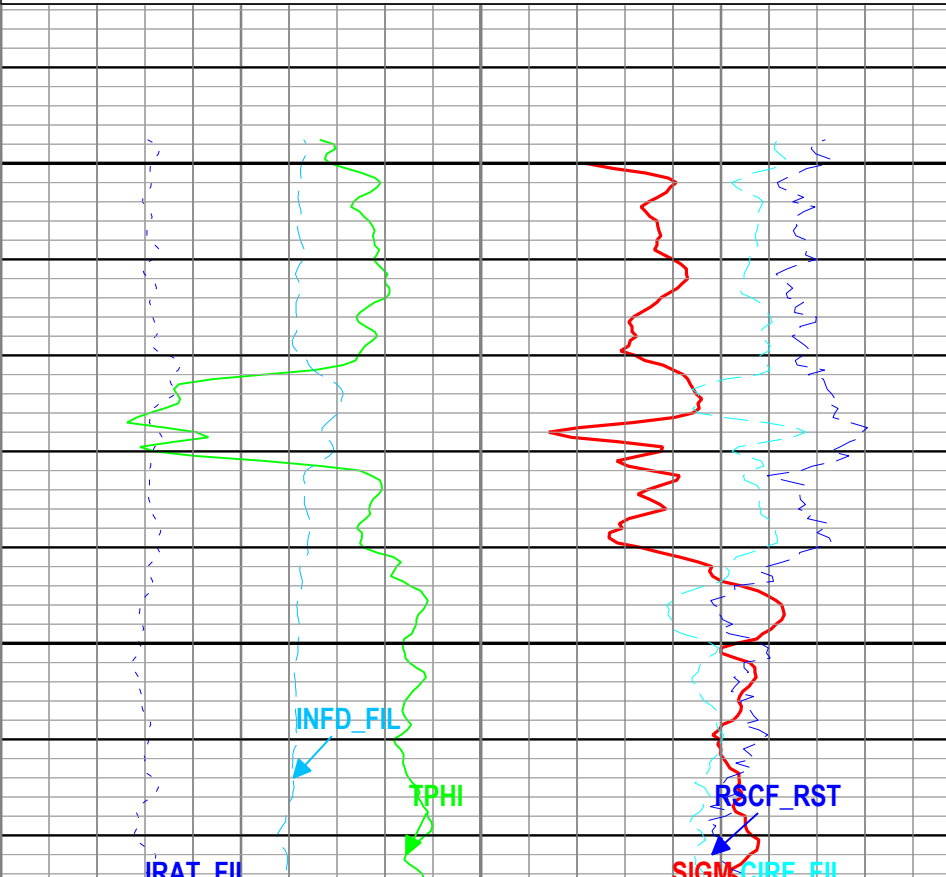
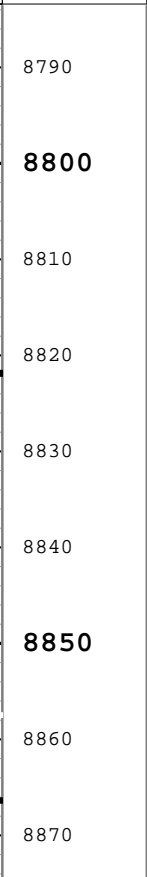
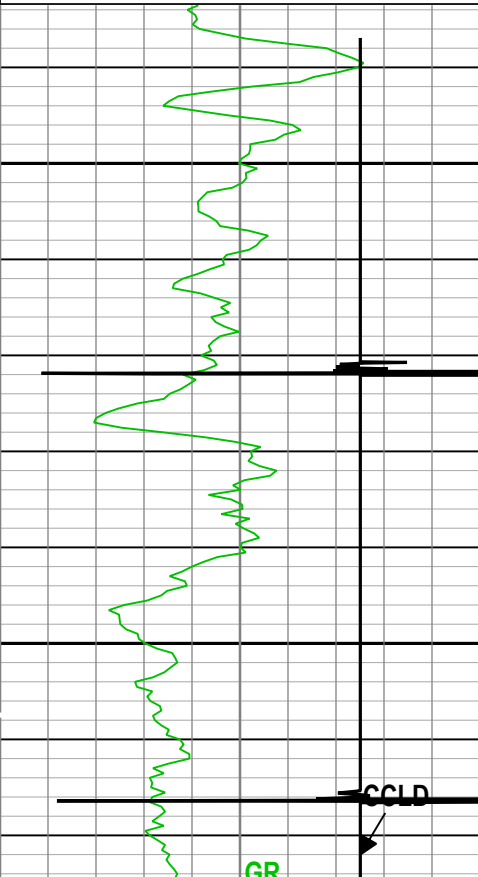
- IHV - Integrated Hole Volume every 10.00 (ft3)
- IHV - Integrated Hole Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)
- TIME\_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)
- ICV - Integrated Cement Volume every 100.00 (ft3)

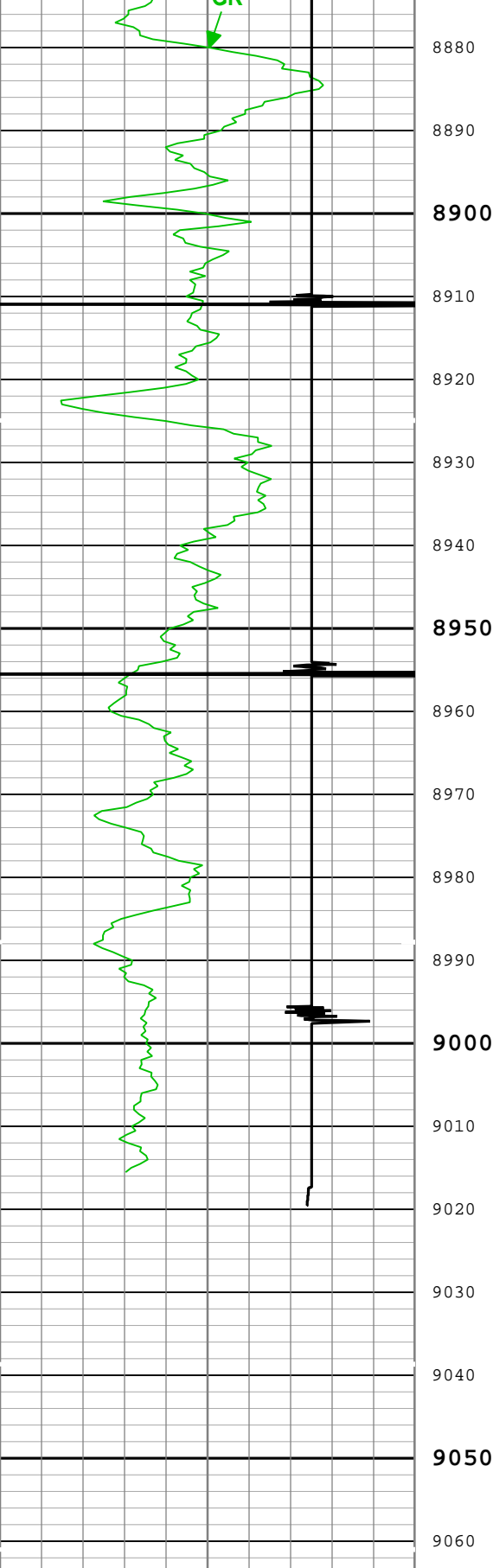
TIME\_1900 - Time Marked every 60.00 (s)

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

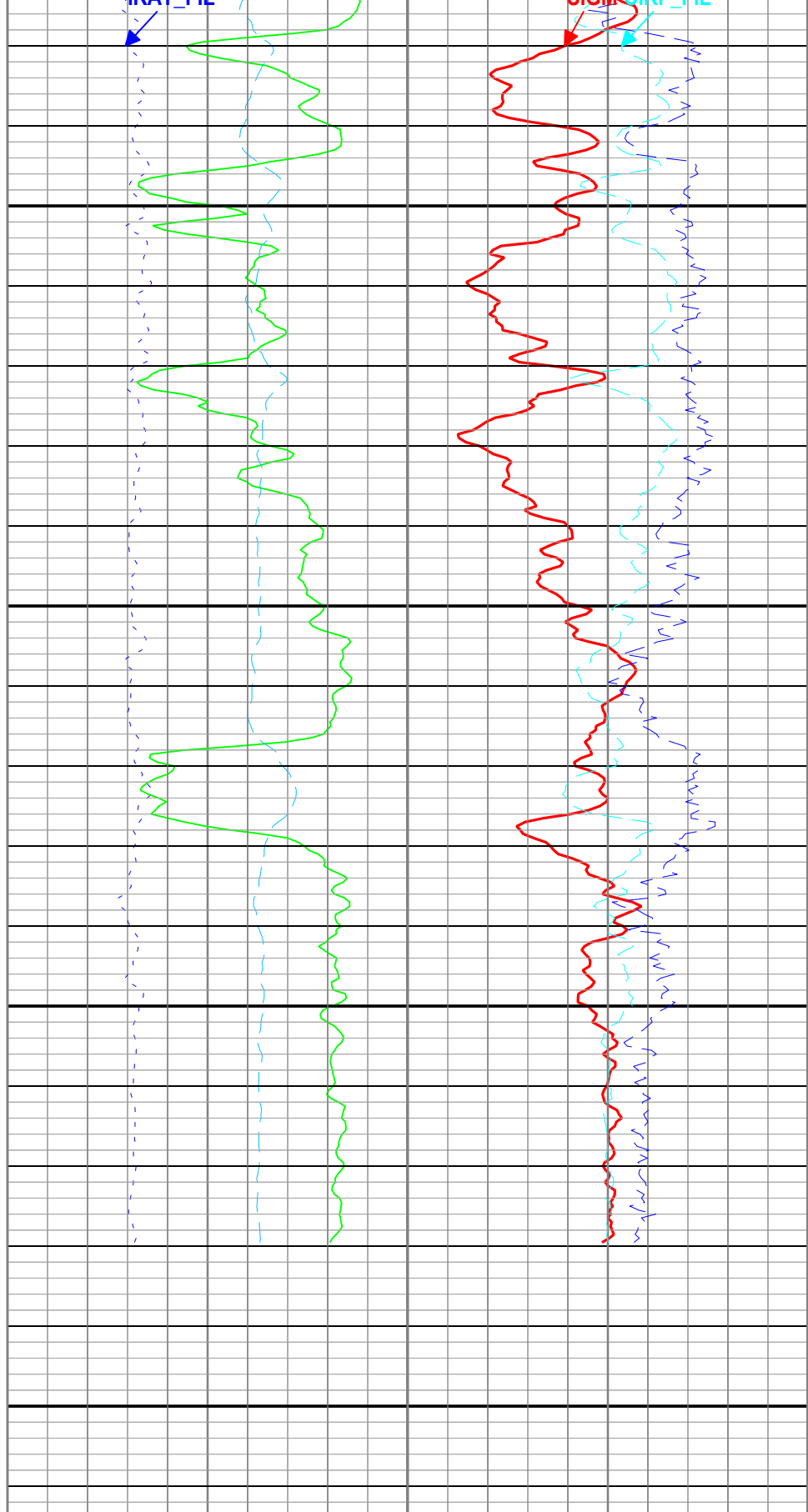
Inelastic Ratio Filtered (IRAT_FIL) RST-C		
0.75		0
Thermal Decay Porosity (TPHI) RST-C		
0.6	ft3/ft3	0
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C		
10000	1/s	0
Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
60	cu	0

Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C		
5		0
Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C		
45		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  
0.75 0  
Capture to Inelastic Ratio Far Filtered (CIRF\_FIL) RST-C  
5 0  
Thermal Decay Porosity (TPHI) RST-C  
0.6 ft3/ft3 0  
Far Detector Effective Unregulated Capture Count Rate (RSCF\_RST) RST-C

Gross Inelastic Count Rate Far Detector  
Filtered (INFD\_FIL) RST-C

100001/s0

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: 07-Jan-2018 10:43:21

Channel Processing Parameters

ONE: Parameters

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

Tool Control Parameters

ONE: Parameters

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

Company:Caerus Operating LLC

Well:Puckett 15A-23 697

Field:Grand Valley

County:Garfield

Schlumberger

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Cement Bond Log

RST Sigma Log

Gamma Ray / CCL Log