

Company: Caerus Operating LLC

Well: Puckett 14B-23 697

Field: Grand Valley

County: Garfield State: Colorado

Cement Bond Log
Reservoir Saturation Log
Gamma Ray Collar Log

County: Garfield
Field: Grand Valley
Location: Lat 39.30°07.76" Long 108°18.38"W
Well: Puckett 14B-23 697
Company: Caerus Operating LLC

Location:	Lat 39.30°07.76" Long 108°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:	
5045233830000	23	6S	97W	

Logging Date	17-Dec-2017
Run Number	RST/SCMT
Depth Driller	9307.00 ft
Schlumberger Depth	9274.00 ft
Bottom Log Interval	9274.00 ft
Top Log Interval	2500.00 ft
Casing Fluid Type	Water
Salinity	
Density	8.4 lbm/gal
Fluid Level	8.00 ft
BIT/CASING/TUBING STRING	
Bit Size	8.50 in
From	30.00 ft
To	9307.00 ft
Casing/Tubing Size	4.5 in
Weight	11.6 lbm/ft
Grade	P110
From	30.00 ft
To	9273.00 ft
Max Recorded Temperatures	237 degF
Logger on Bottom	17-Dec-2017 17:43:00
Unit Number	3003
Recorded By	John Emery
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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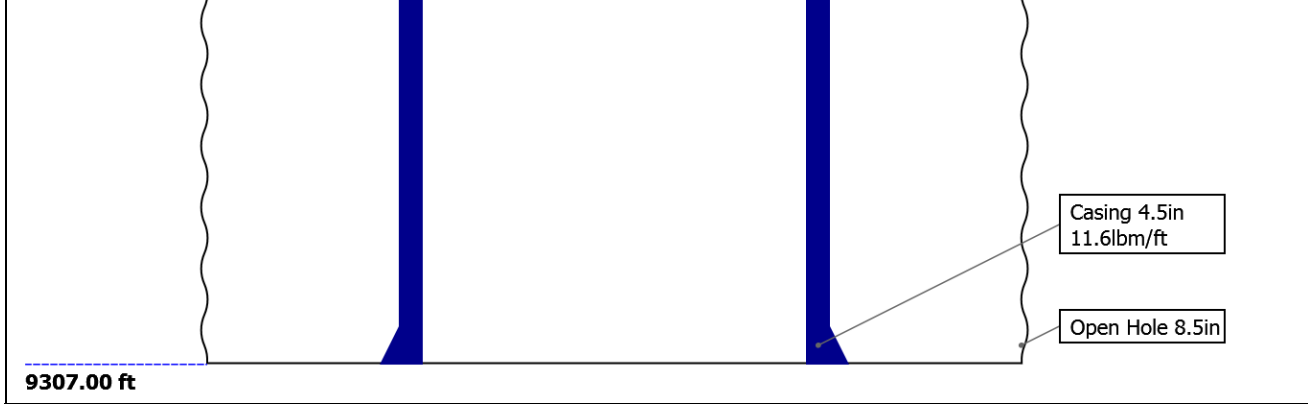
9.5 Parameter Listing

Well Sketch

Driller Depth

30.00 ft



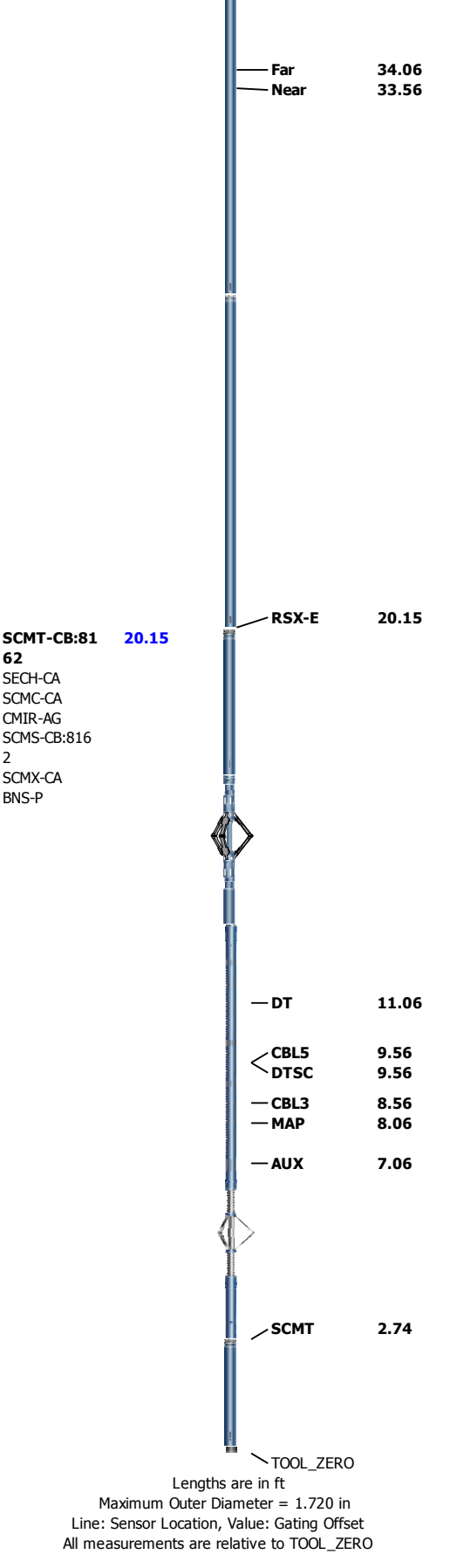


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	8.5					
Top Driller (ft)	30					
Top Logger (ft)	30					
Bottom Driller (ft)	9307					
Bottom Logger (ft)	9307					
Casing						
Size (in)	4.5					
Weight (lbm/ft)	11.6					
Inner Diameter (in)	4					
Grade	P110					
Top Driller (ft)	30					
Top Logger (ft)	30					
Bottom Driller (ft)	9307					
Bottom Logger (ft)	9273					

Remarks and Equipment Summary

RST/SCMT: Toolstring				RST/SCMT: Remarks		
Equip name	Length	MP name	Offset	Tool ran as per Tool Sketch.		
PEH-E	53.4			Log Correlated to Down Pass.		
				Max recorded Temperature: 237 DegF.		
AH-38	51.72			Max Recorded Pressure: 3834 psi.		
PSTP-B:282	51.44					
6		GR	47.74			
PSC-A:2826		PSTC	47.44			
PSTC-A		PSTC Tool	0.00			
PBMS-B:2826		String Bot				
		tom				
		Temperatu	44.69			
		re				
		CQG Press	44.34			
		ure				
		CCL	43.92			
		PBMS	43.17			
RST-C:478	43.17					
RSCH-A:315						
RSC-E:315						
RSS-A:382						
MNTR-F:1471						
-51351						
RSXH-A:478						
RSX-E:478						
		RSC-E	36.82			



RST/SCMT		
CBL Main Pass		
Software Version		
Acquisition System	Version	
Maxwell 2017 SP3	7.3.92069.3100	
Pass Summary		

Pass Summary

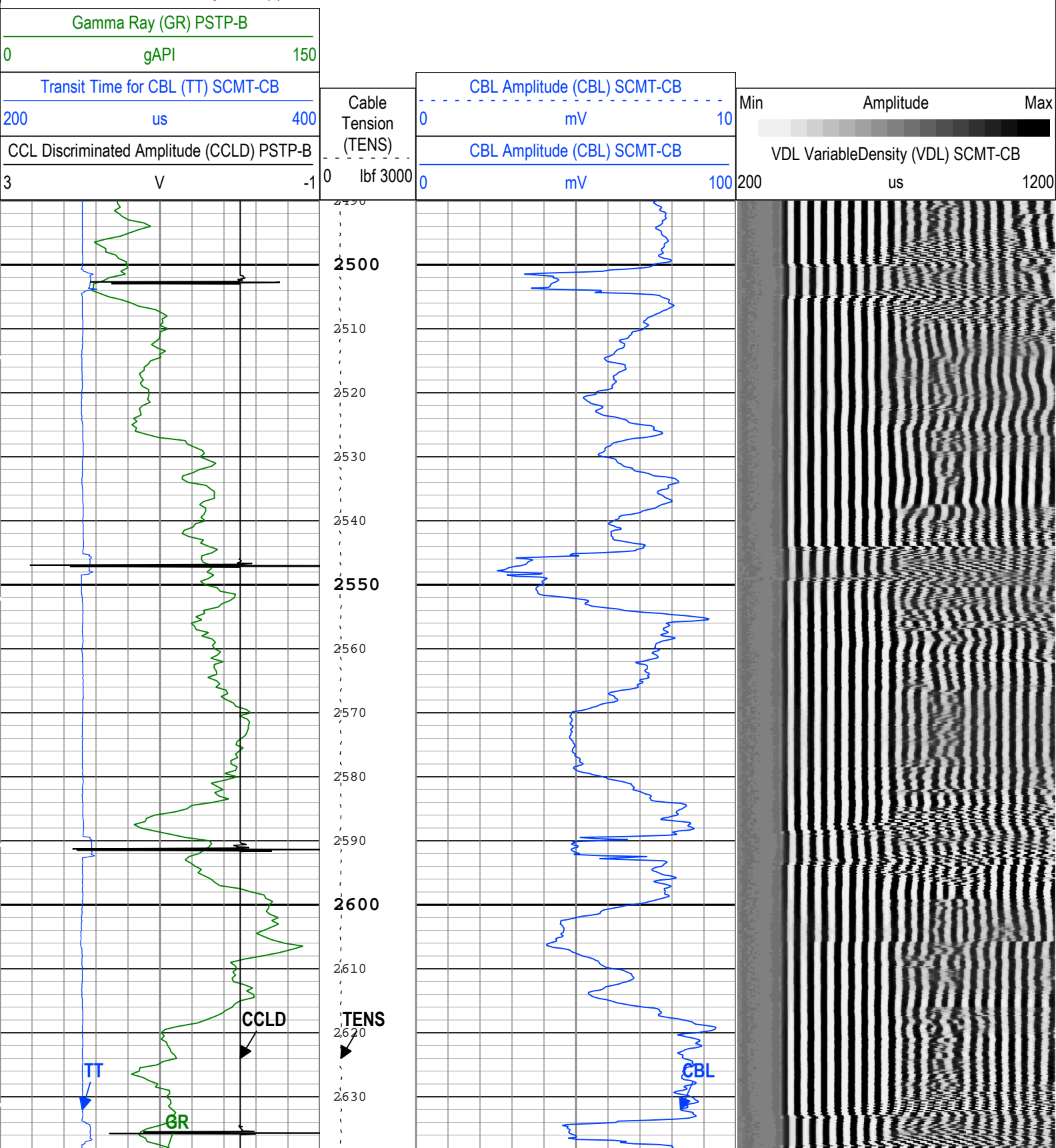
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
RST/SCMT	Log[4]:Up	Up	1818.48 ft	9283.03 ft	17-Dec-2017 6:20:34 PM	17-Dec-2017 9:26:27 PM	ON	0.00 ft	No

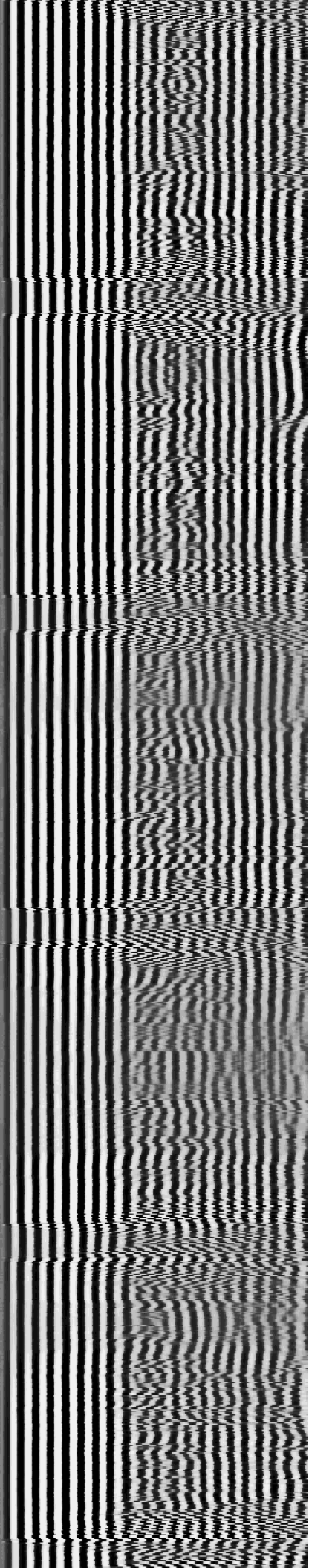
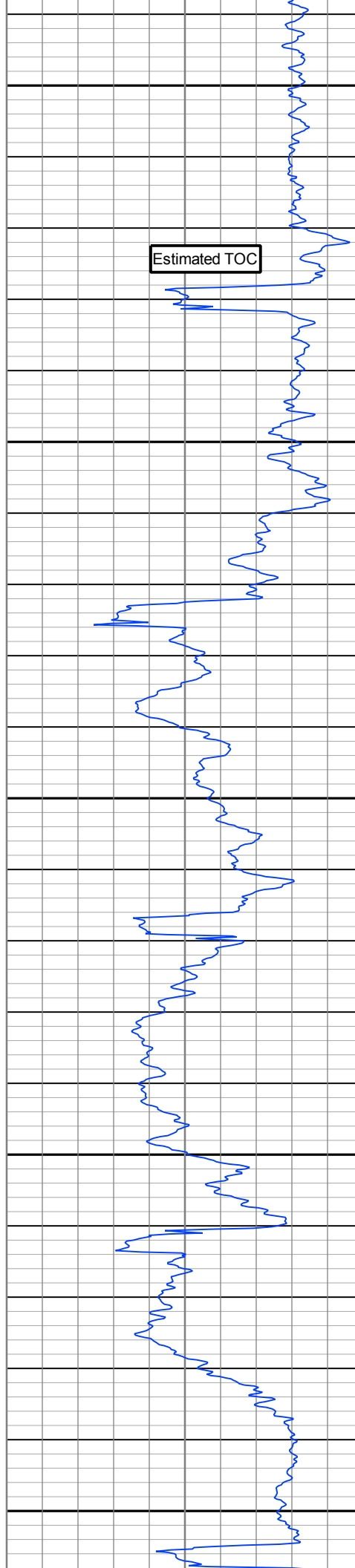
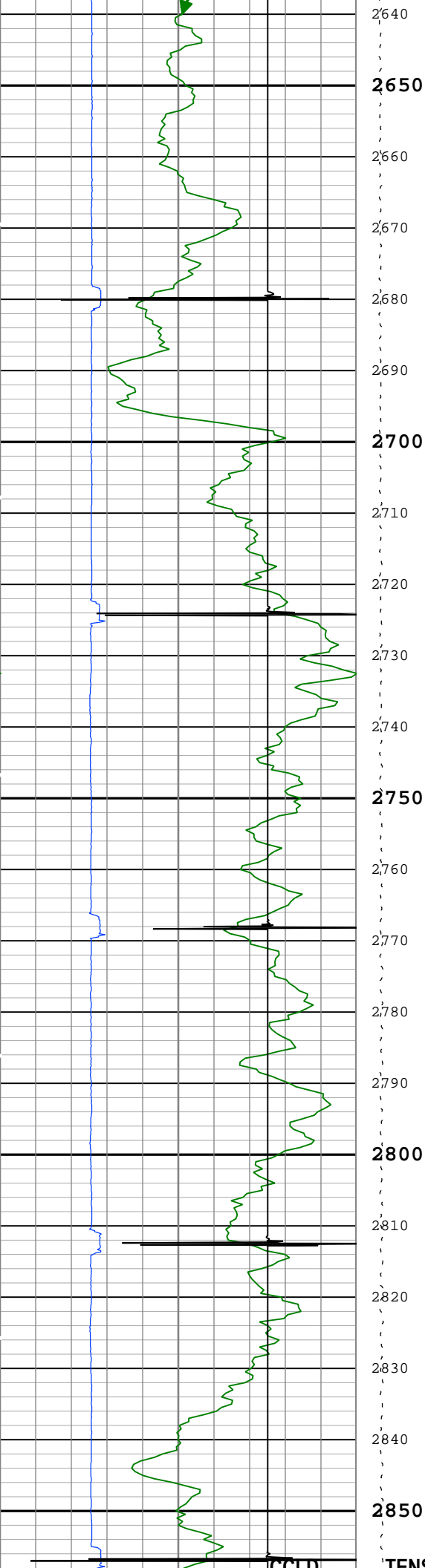
All depths are referenced to toolstring zero

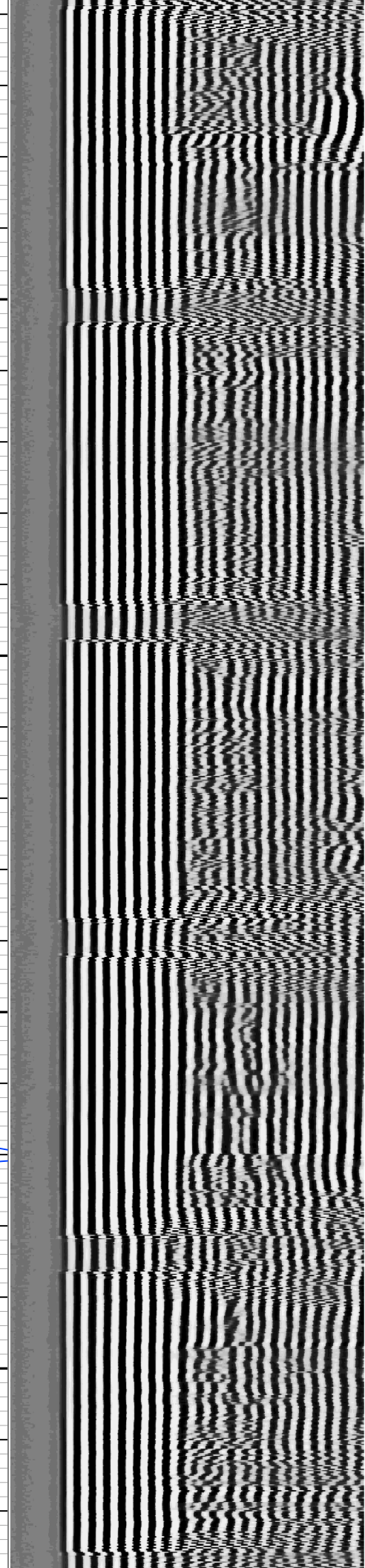
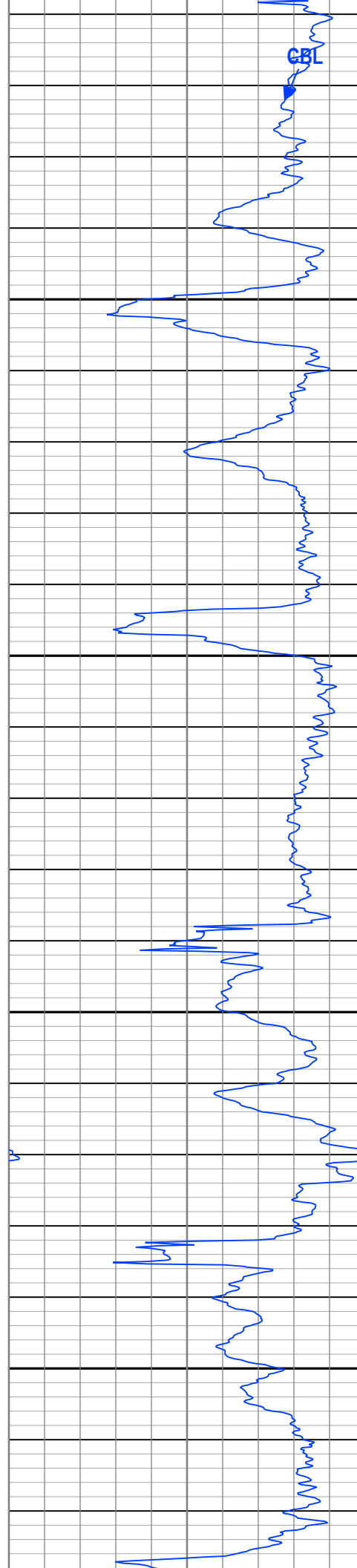
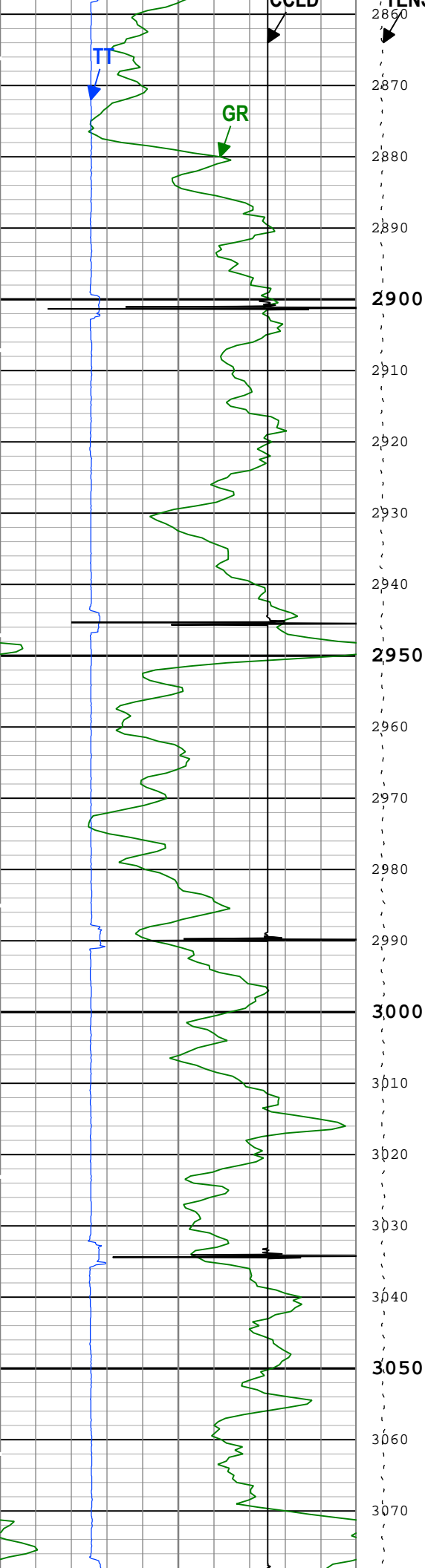
Log	Company:Caerus Operating LLC	Well:Puckett 14B-23 697
		RST/SCMT: Log[4]:Up:S002

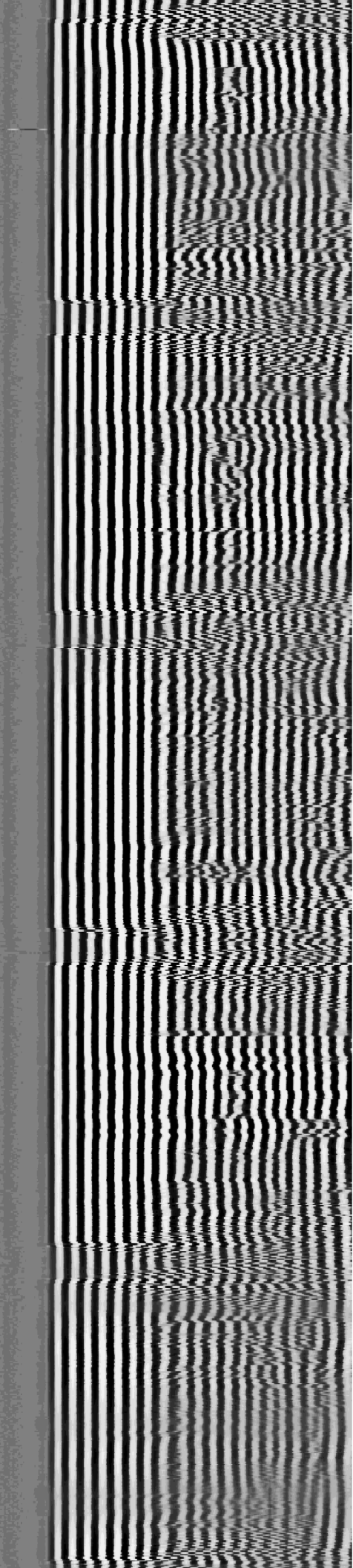
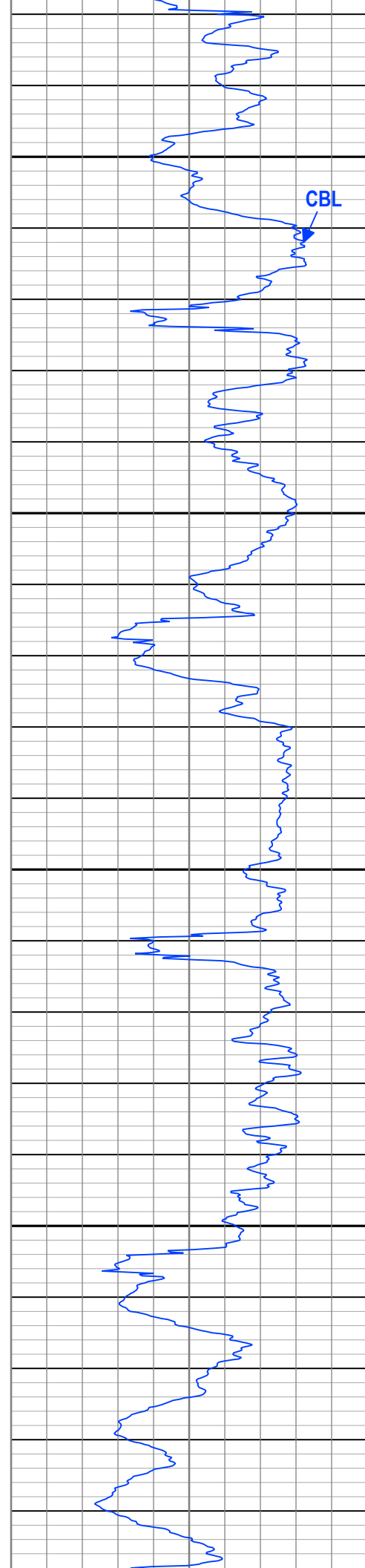
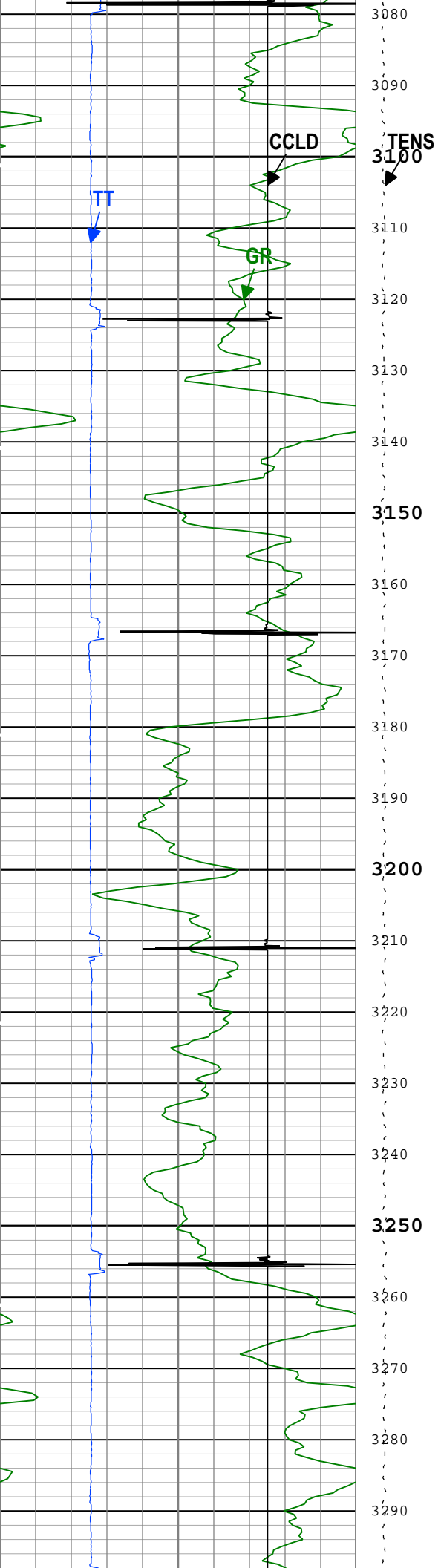
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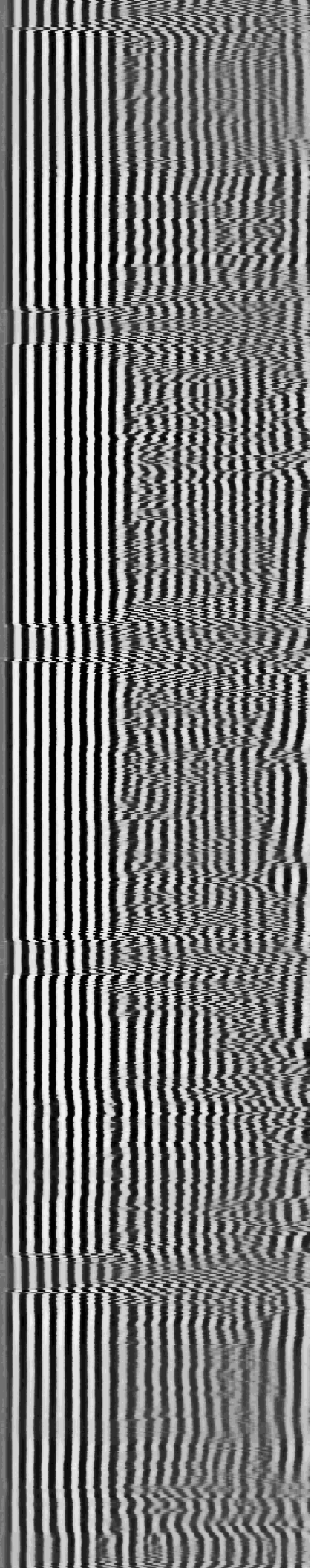
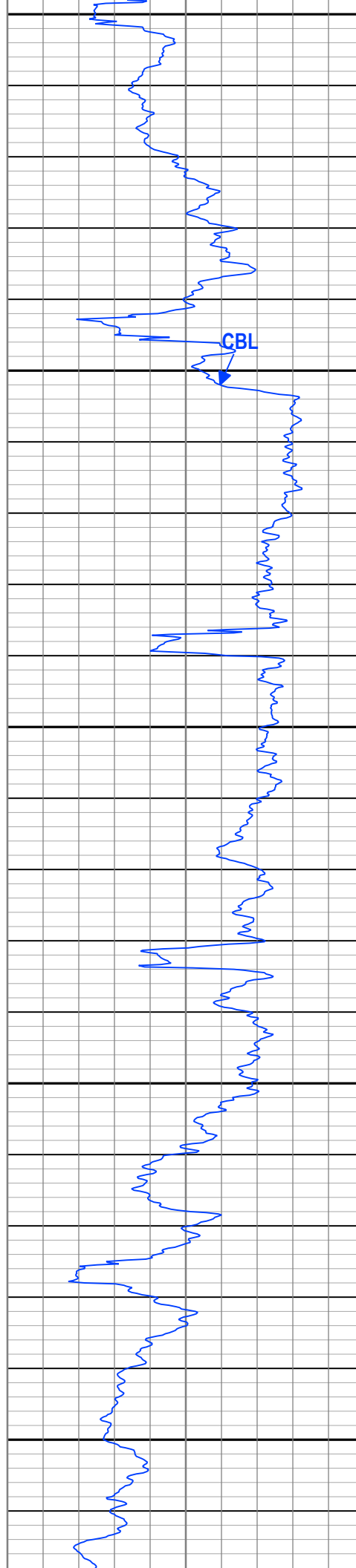
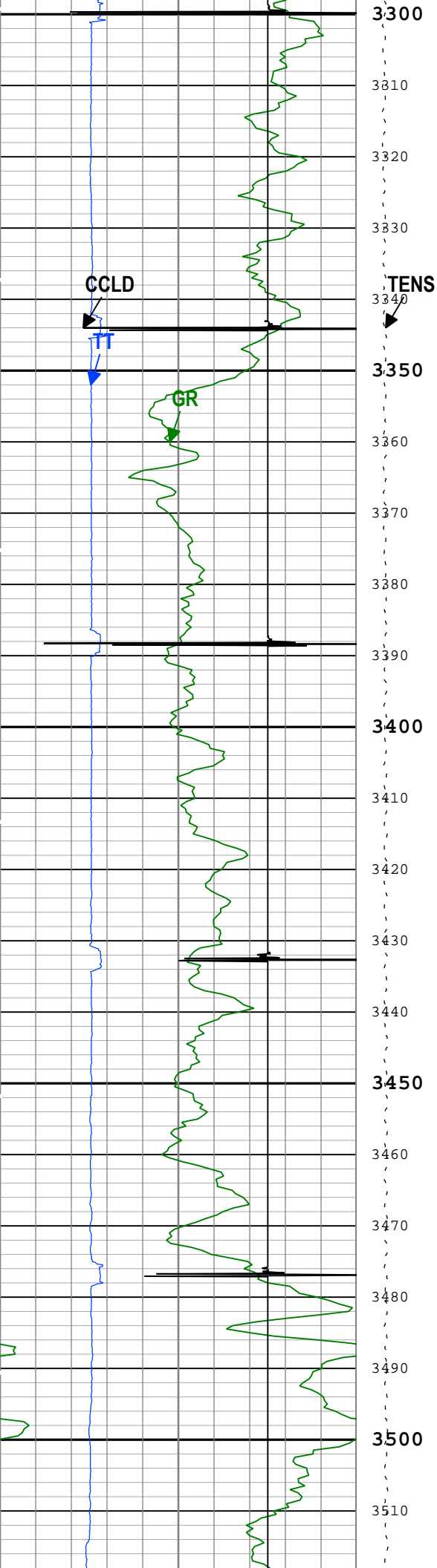
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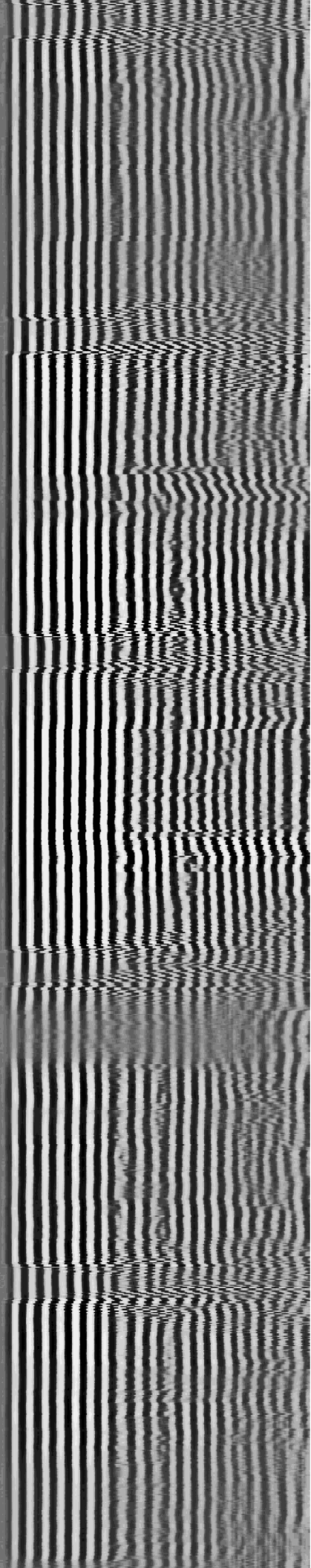
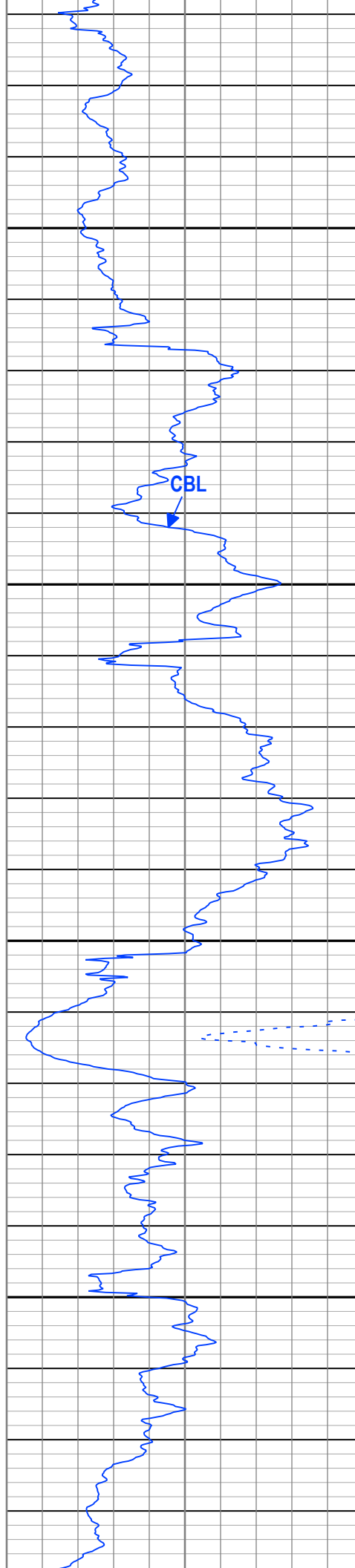
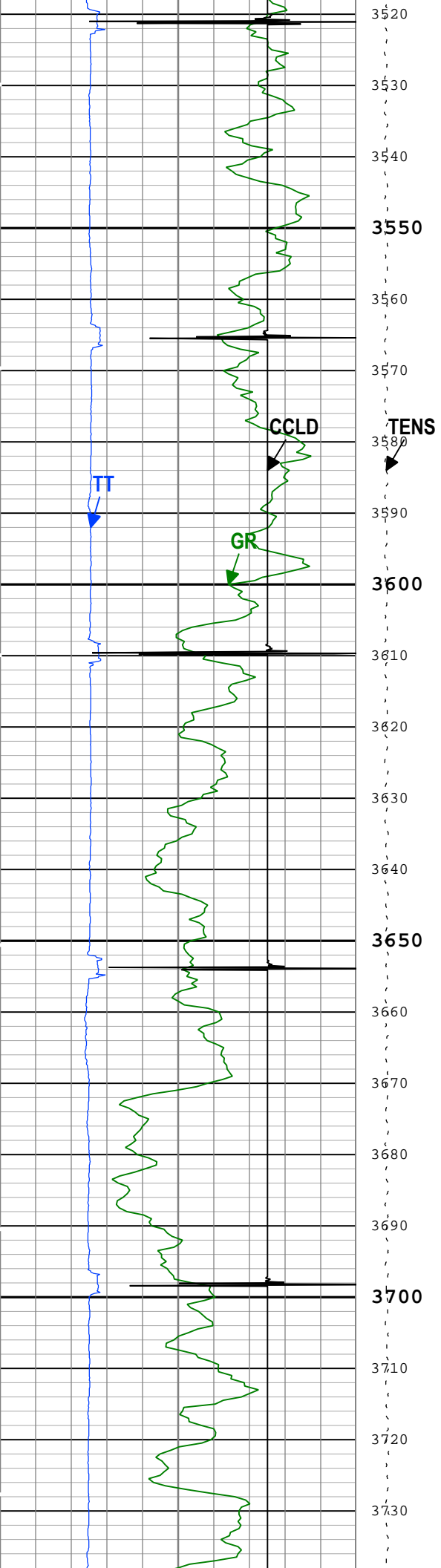


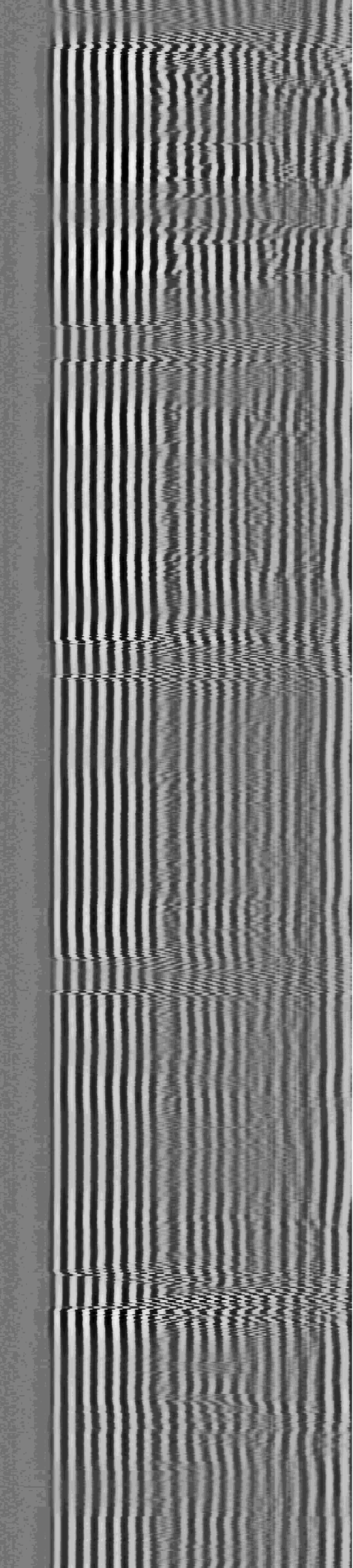
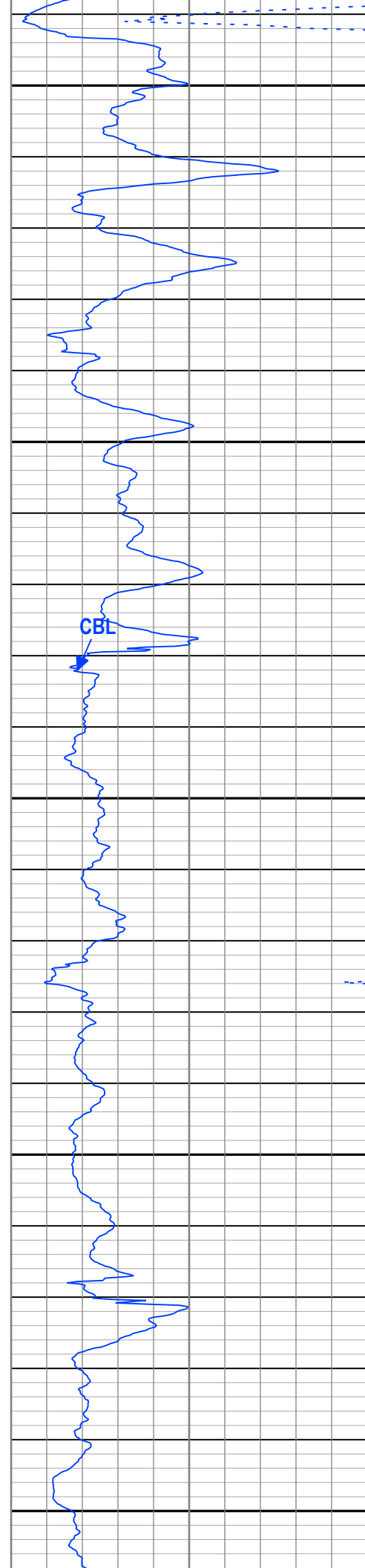
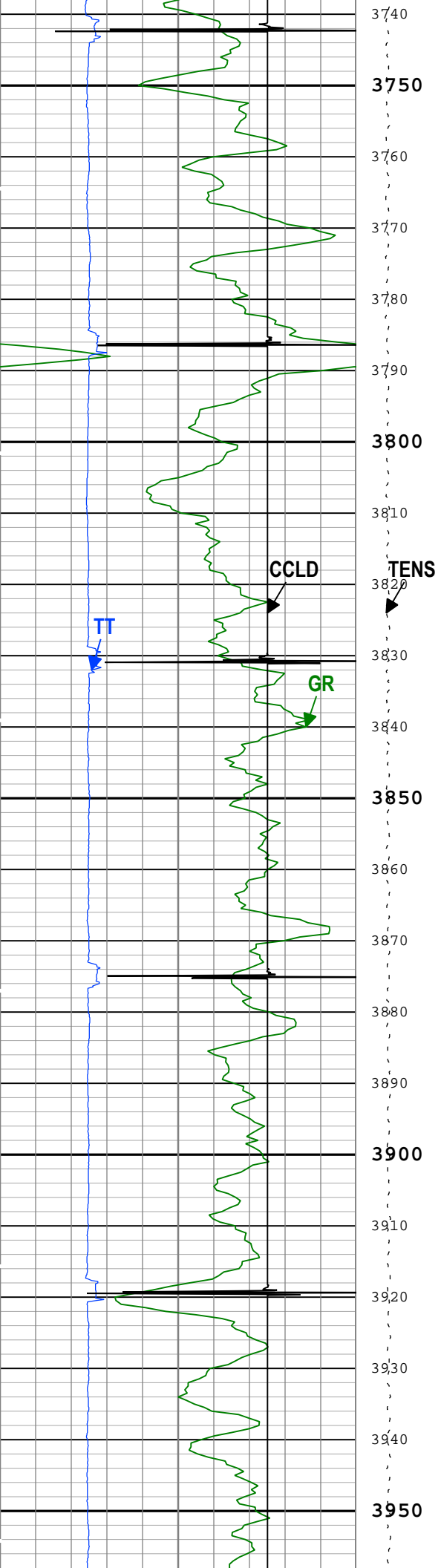


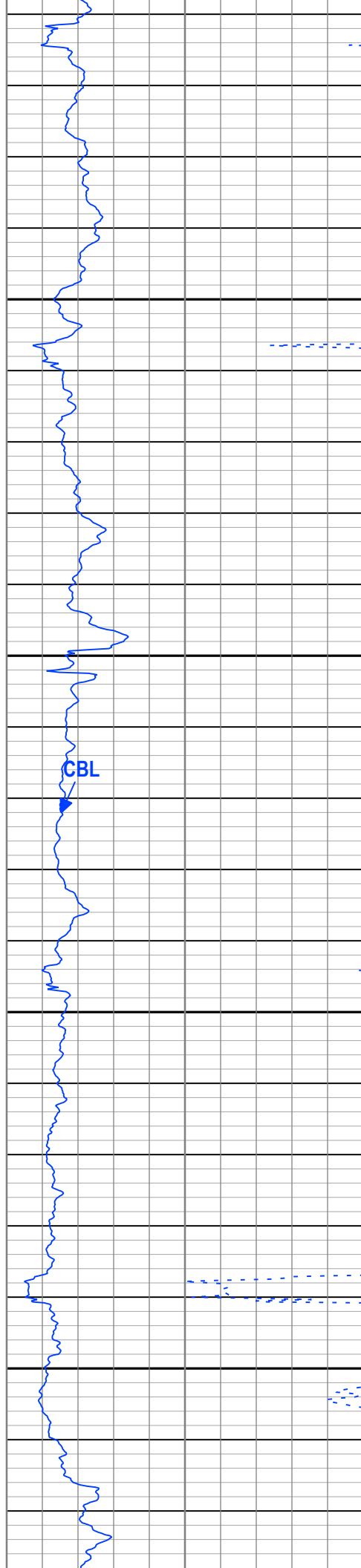
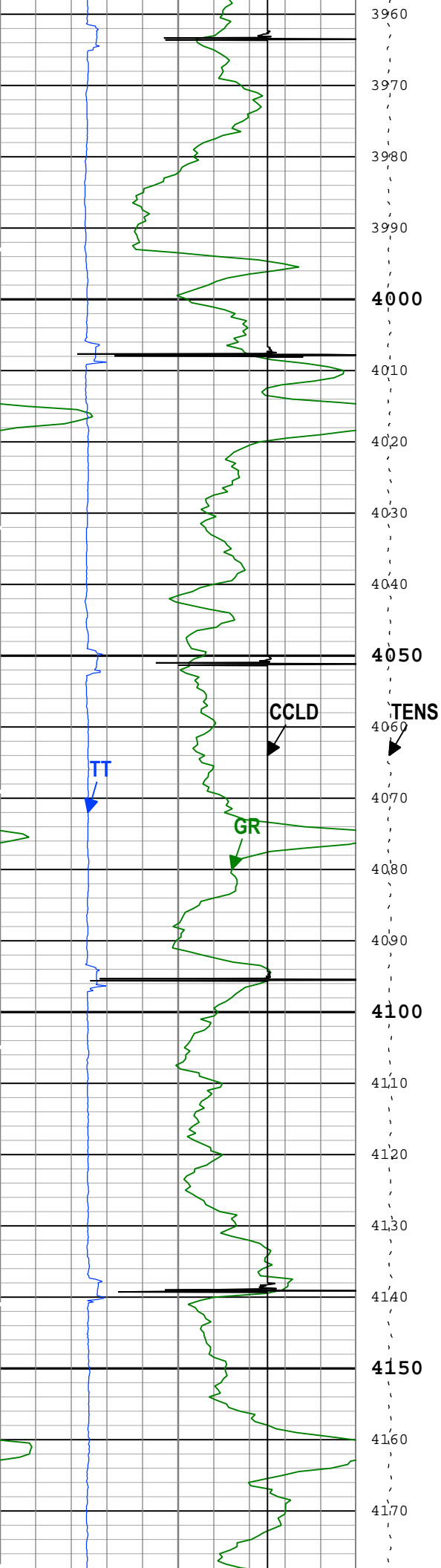


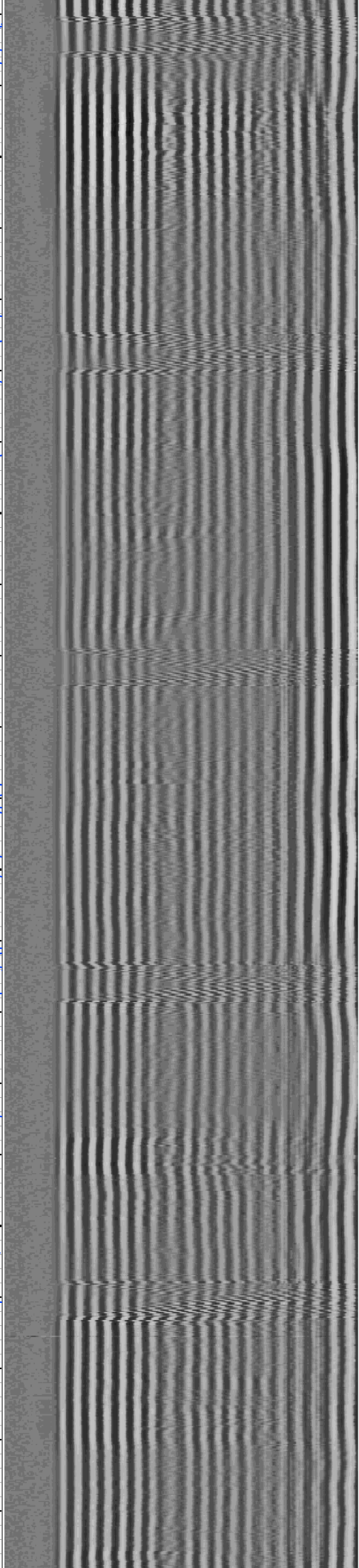
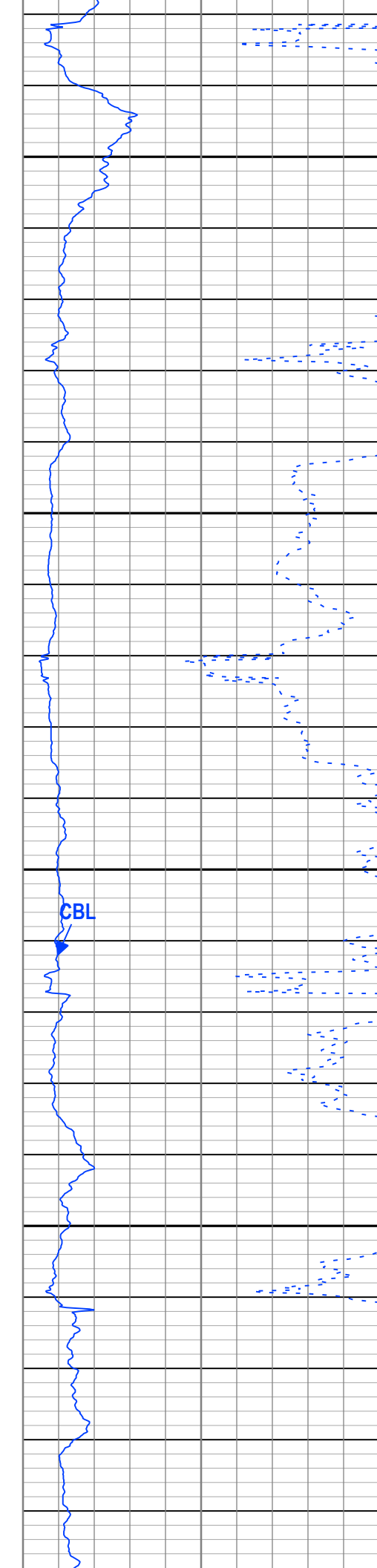
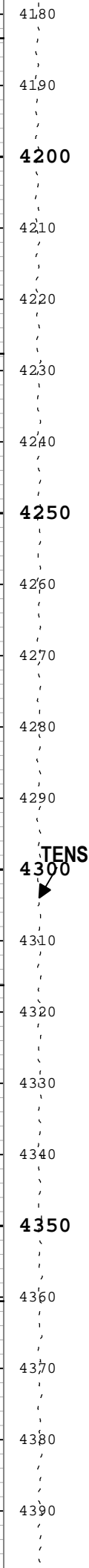
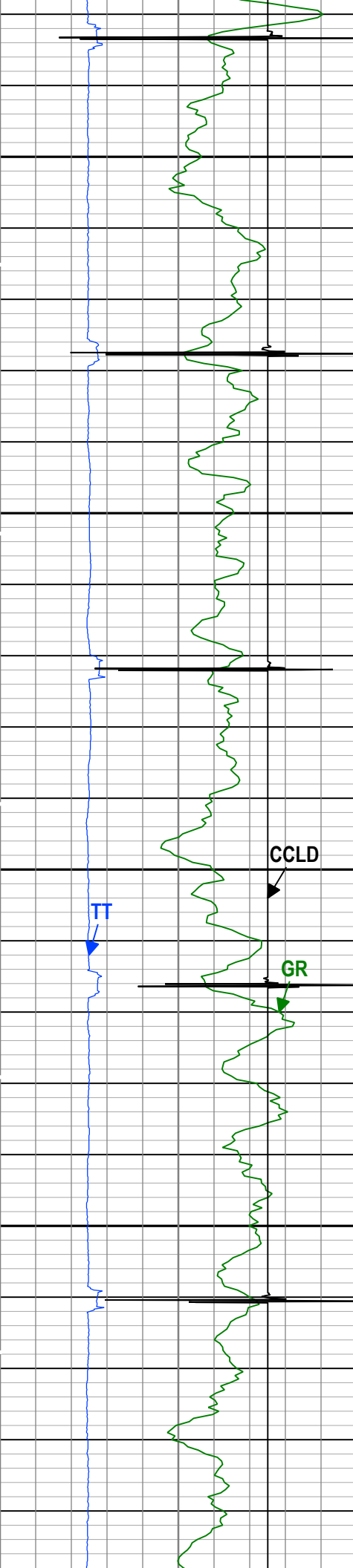


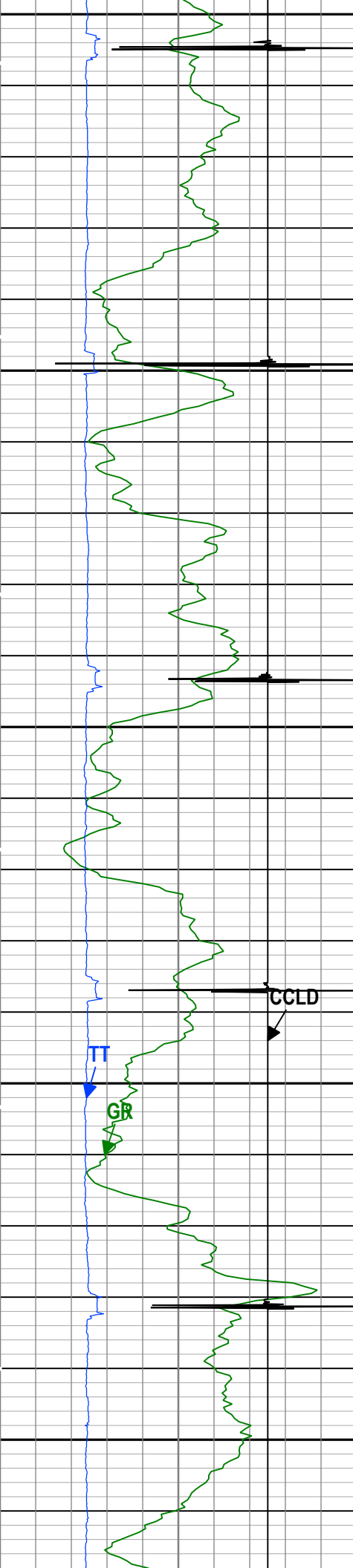




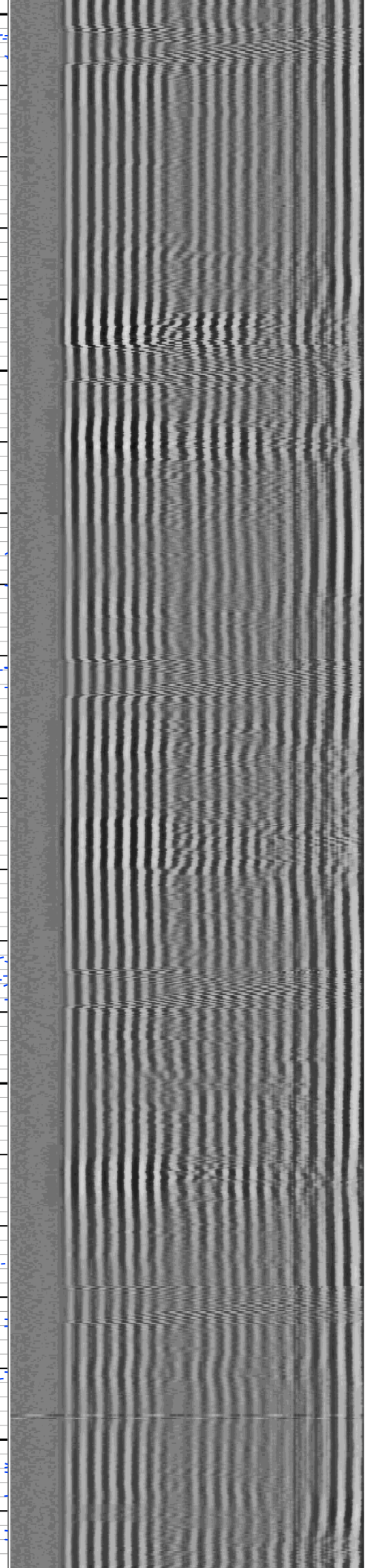
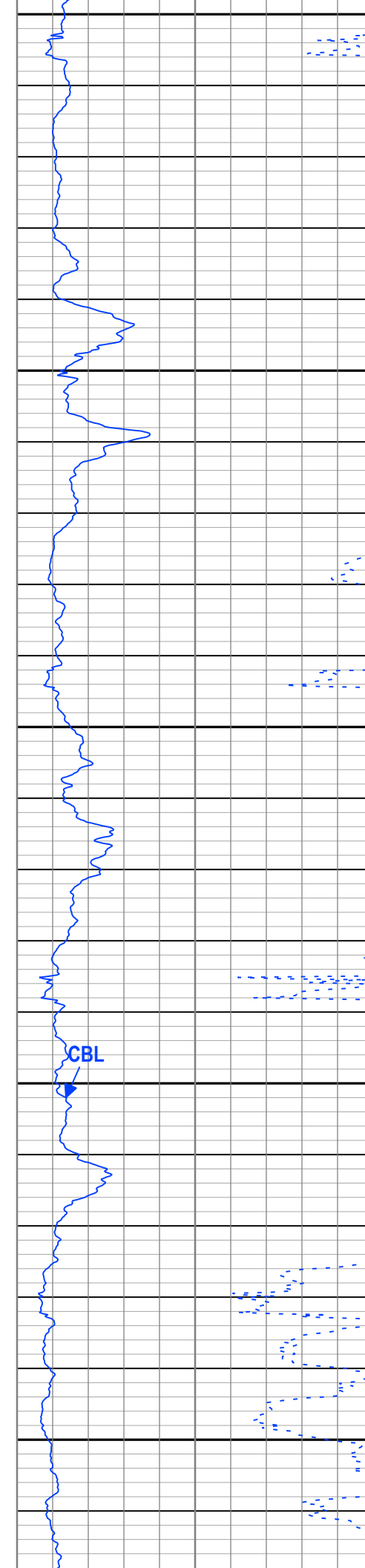


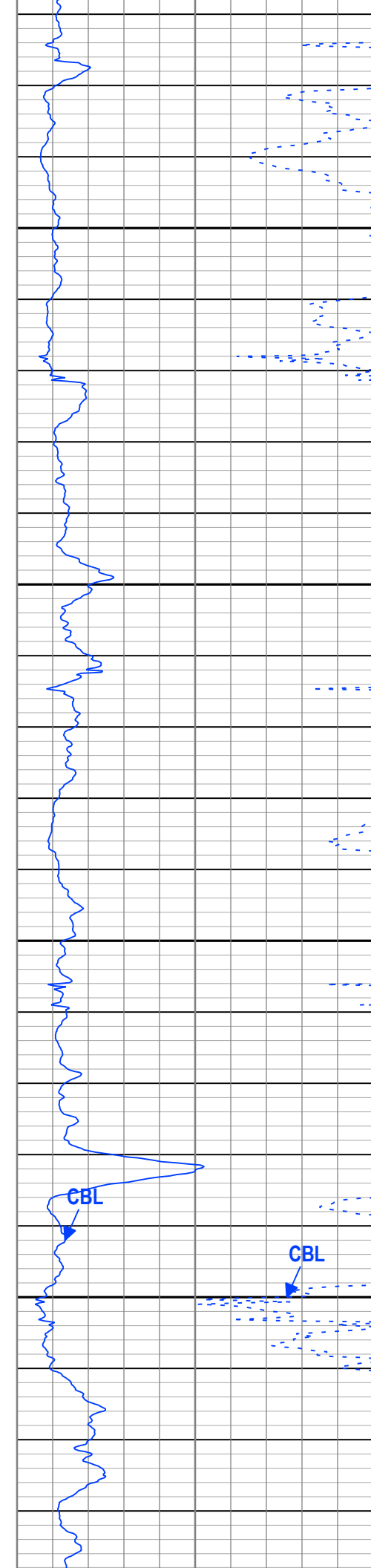
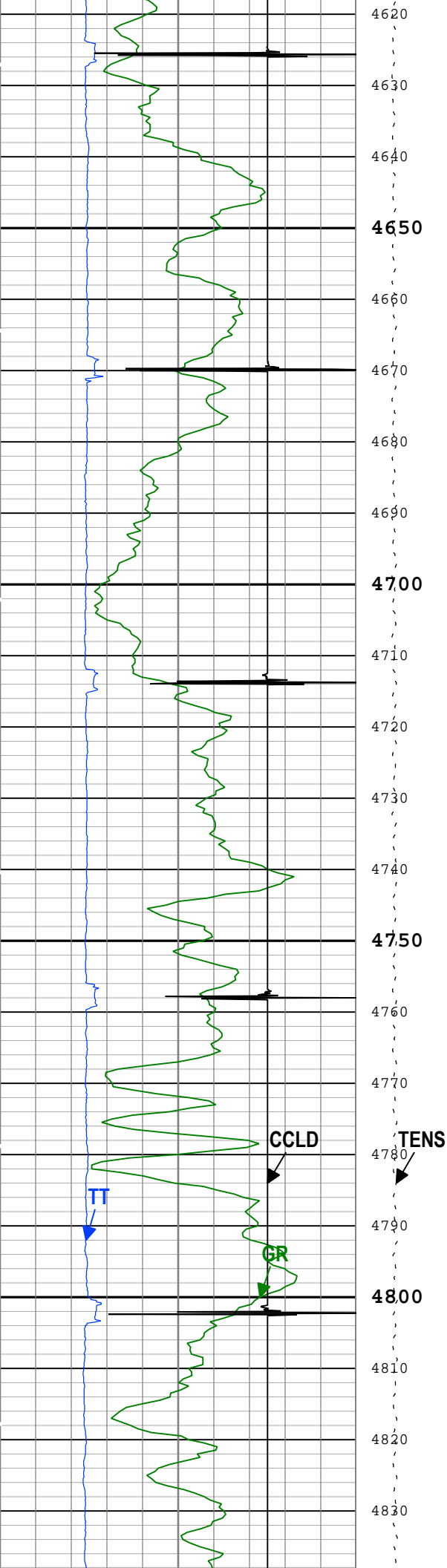


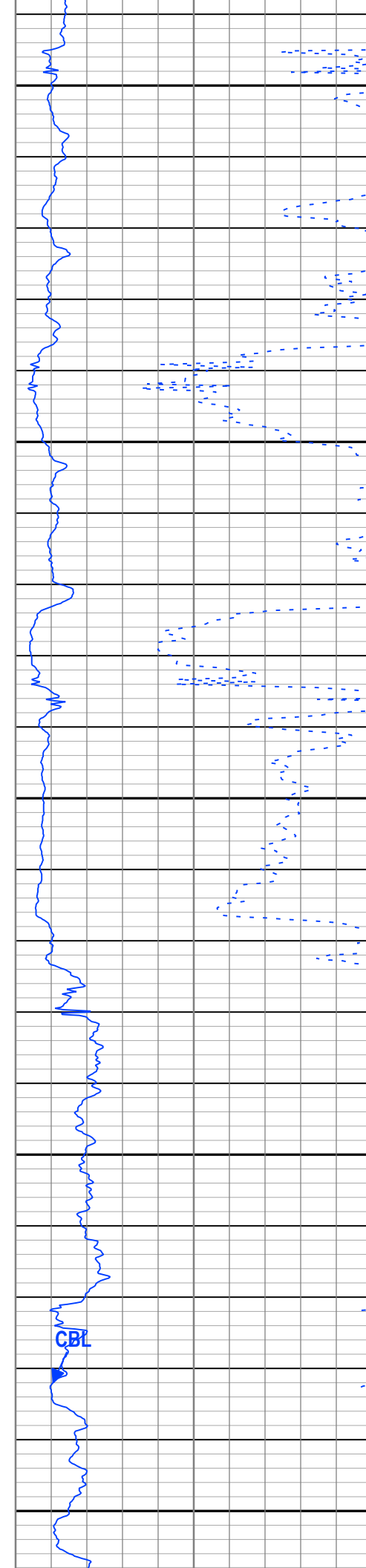
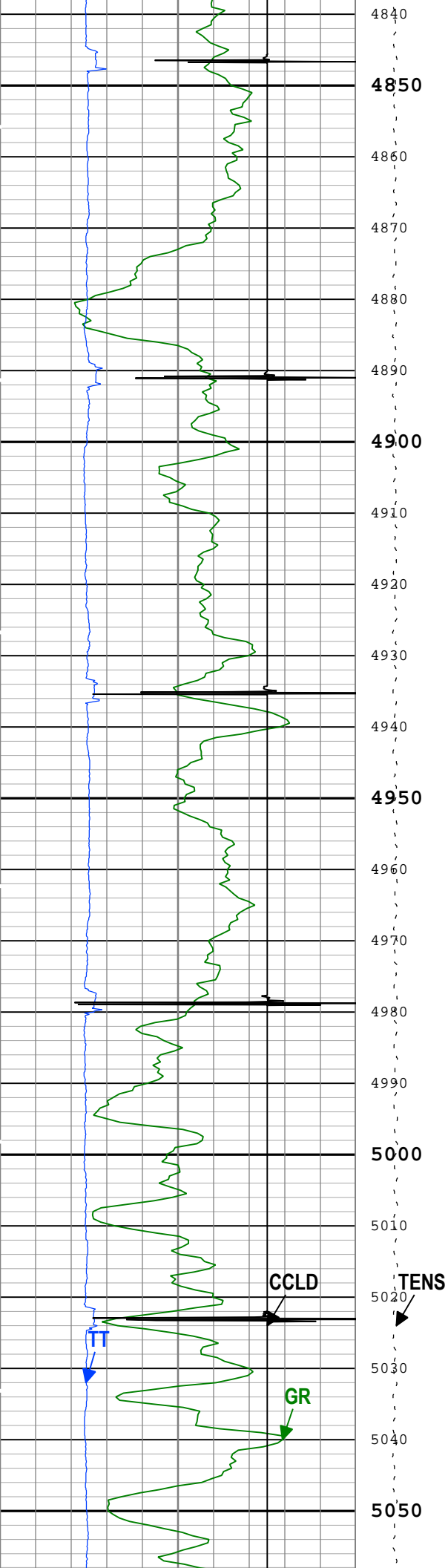


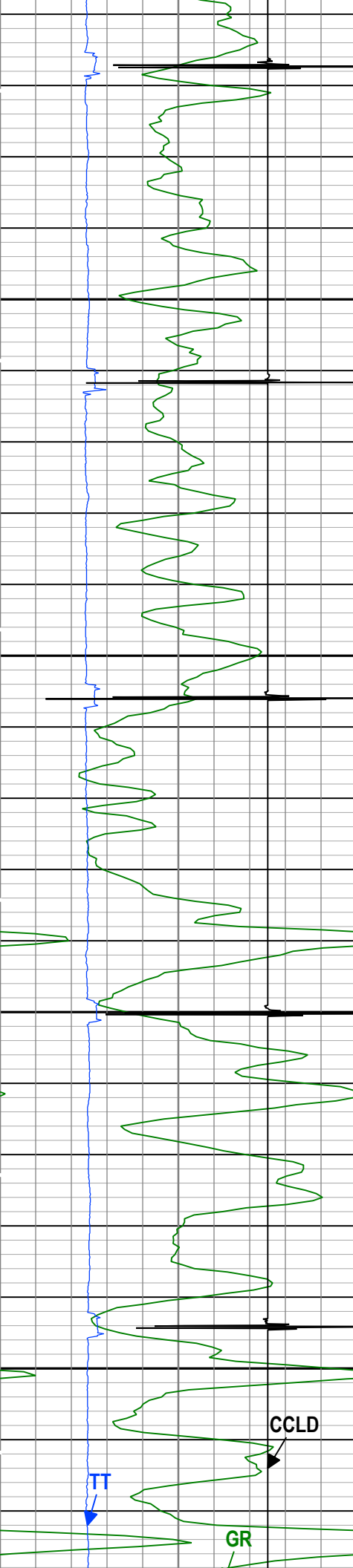


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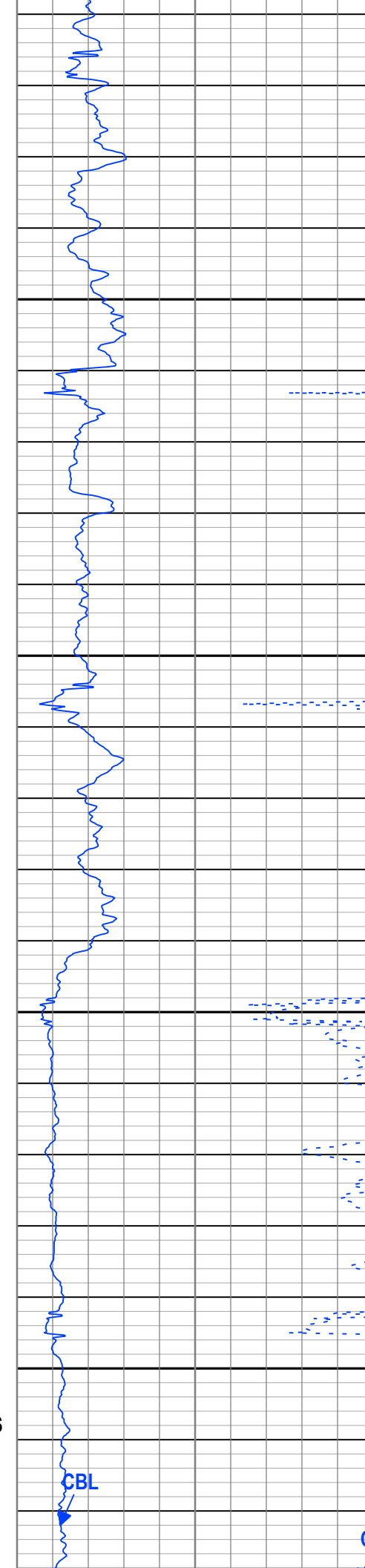




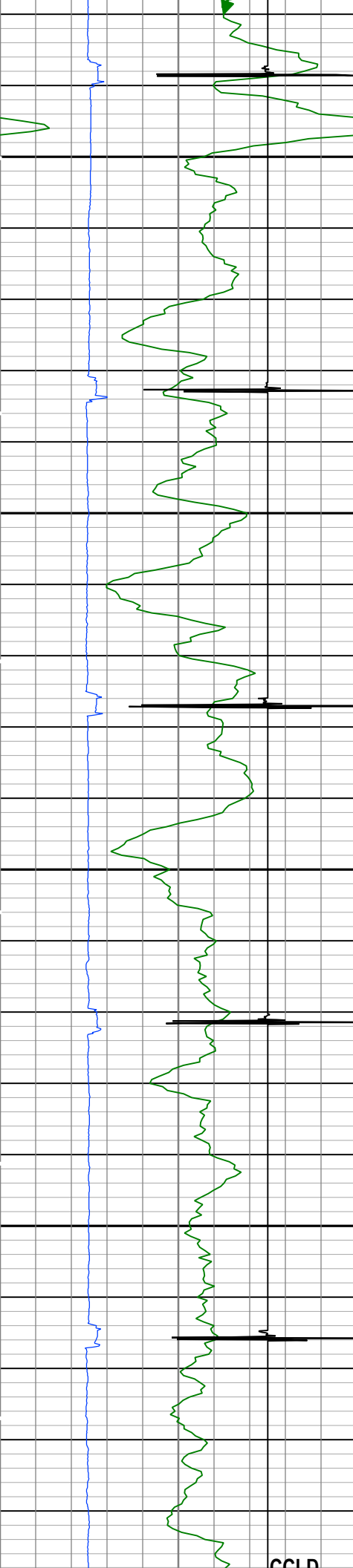


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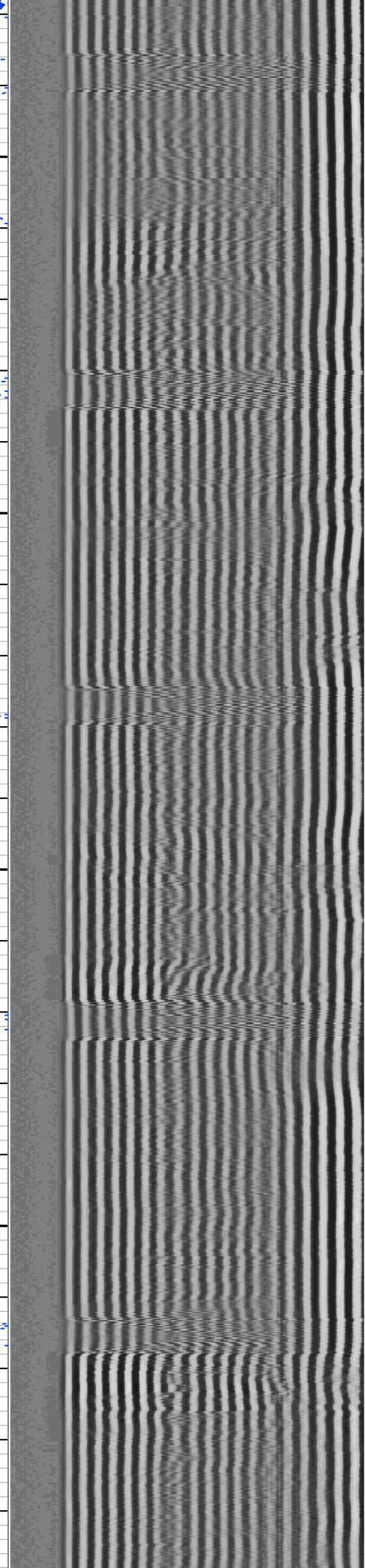
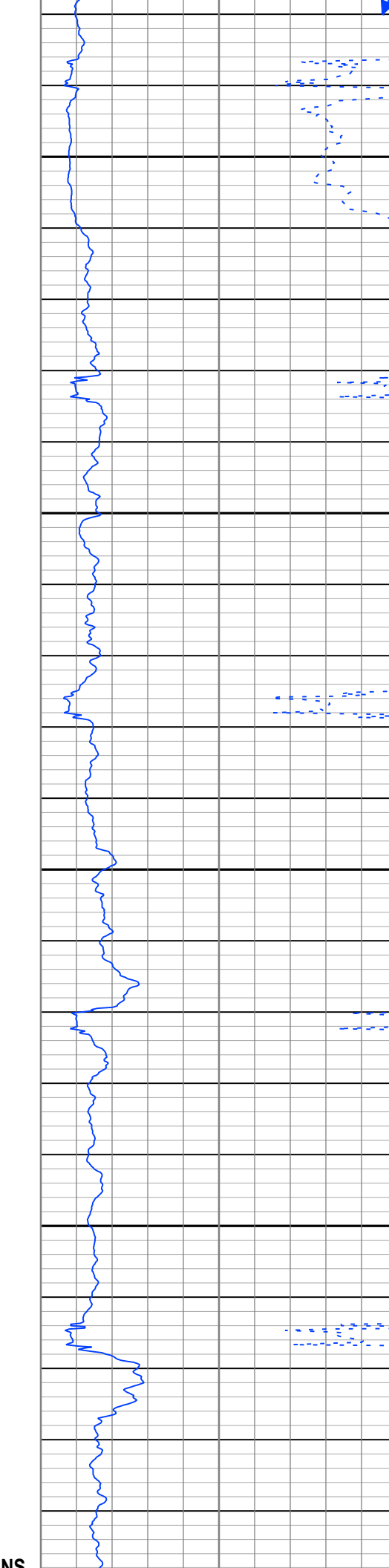
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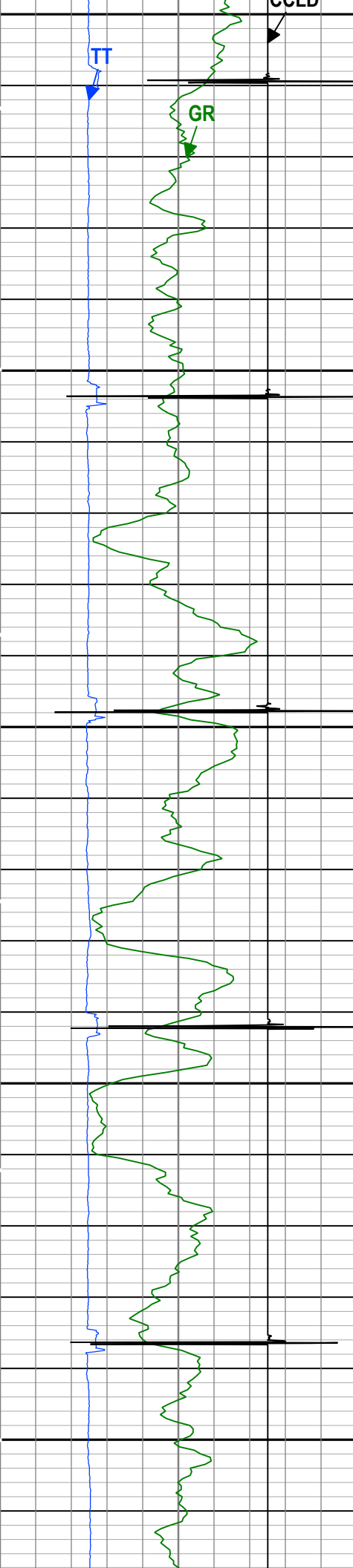


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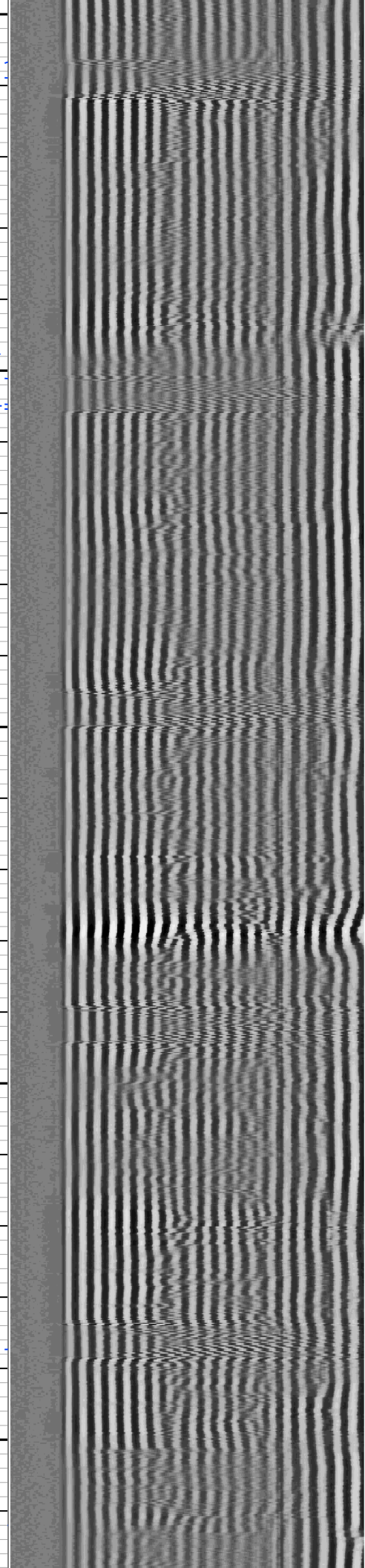
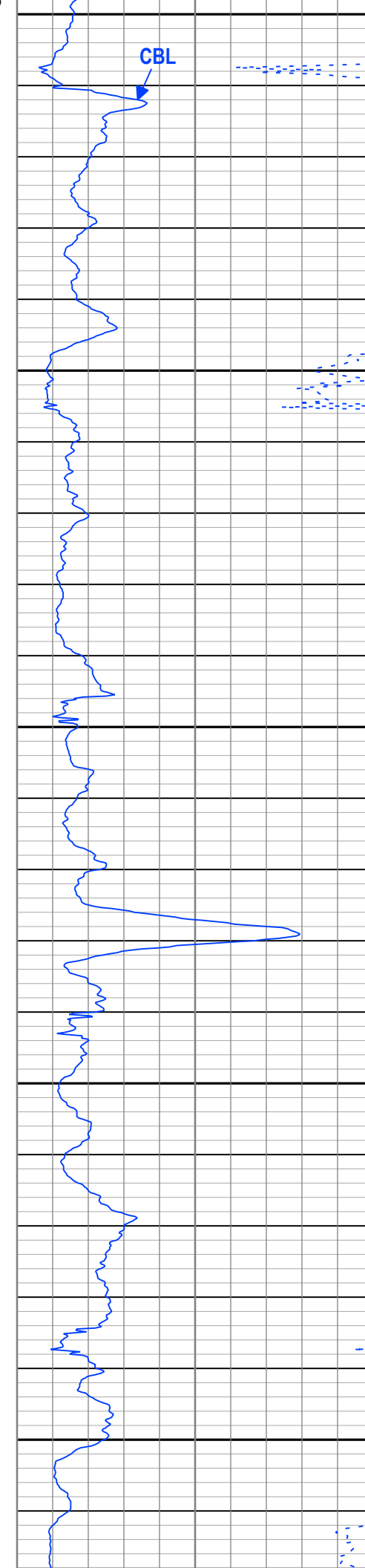


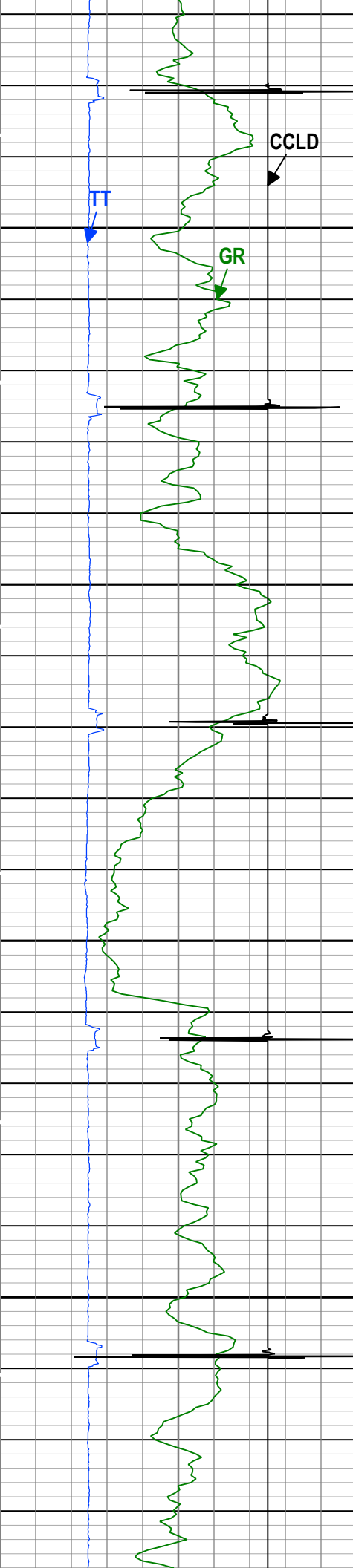
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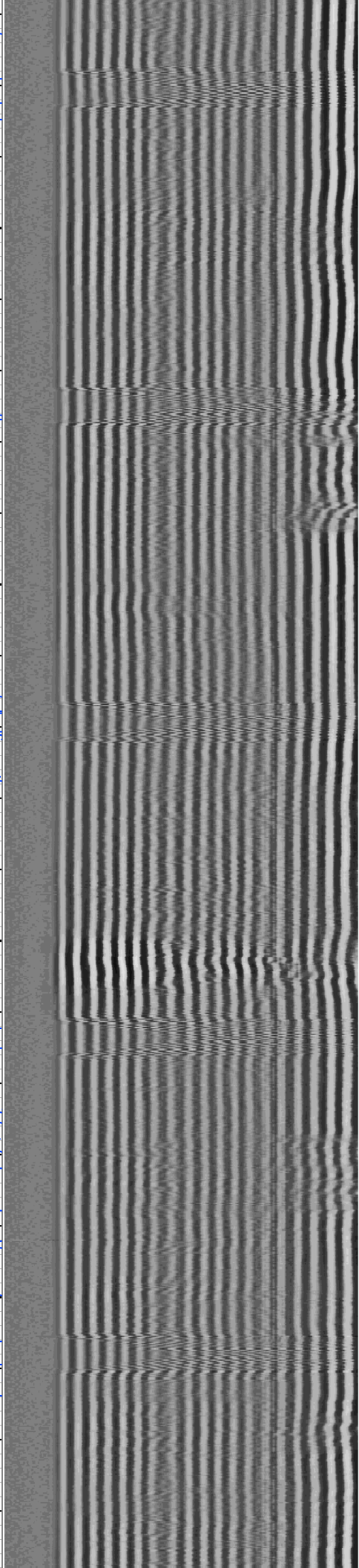
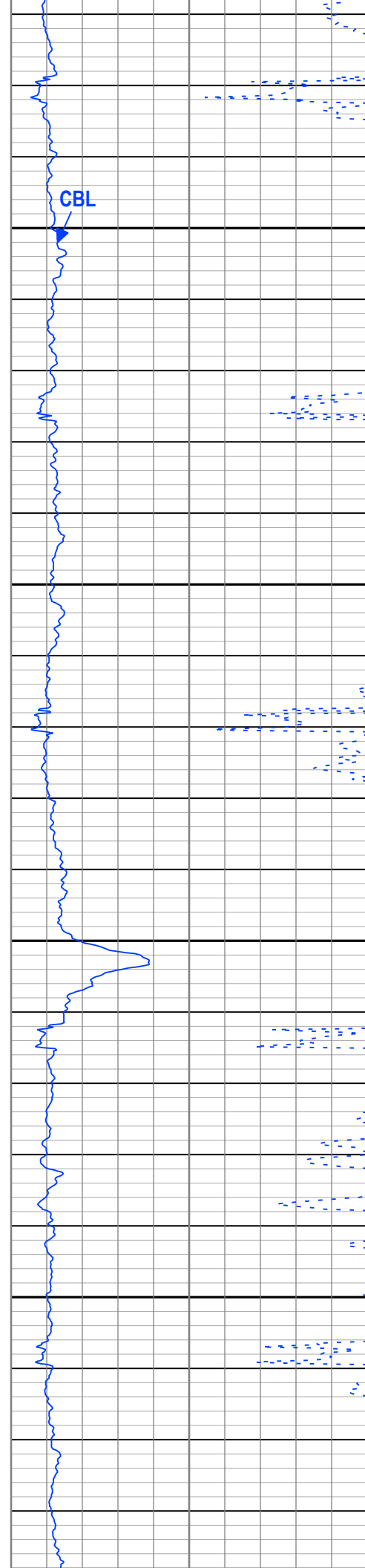


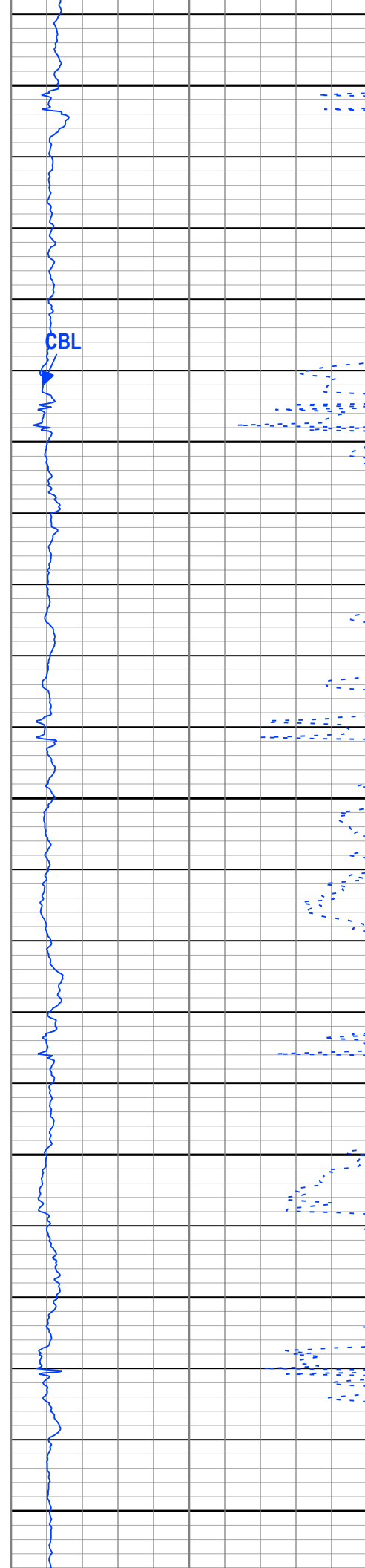
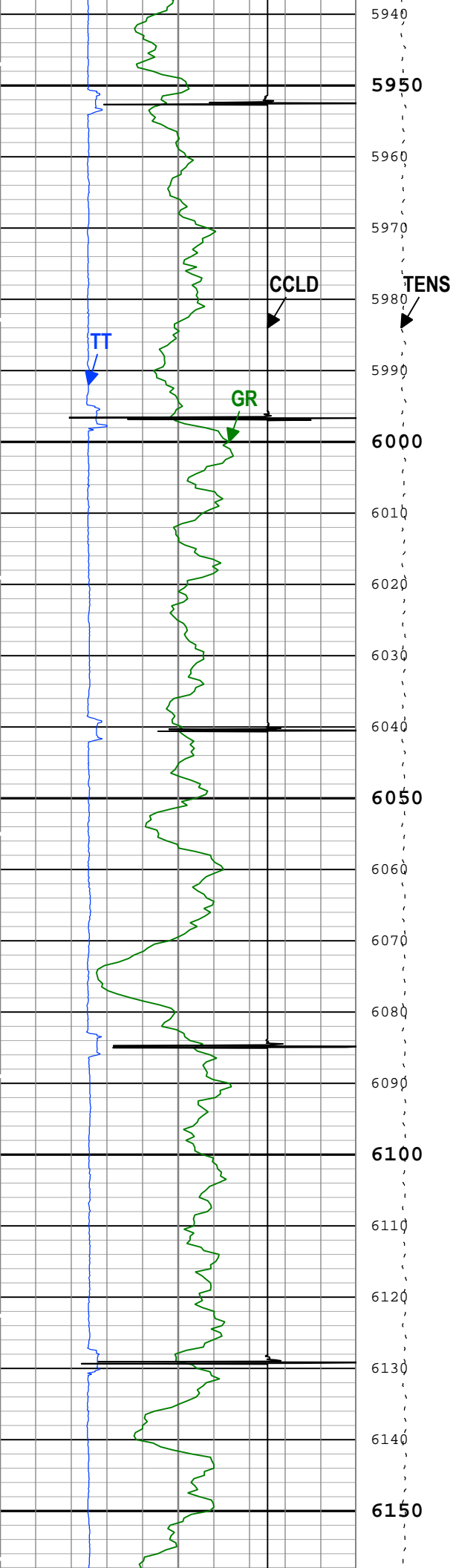
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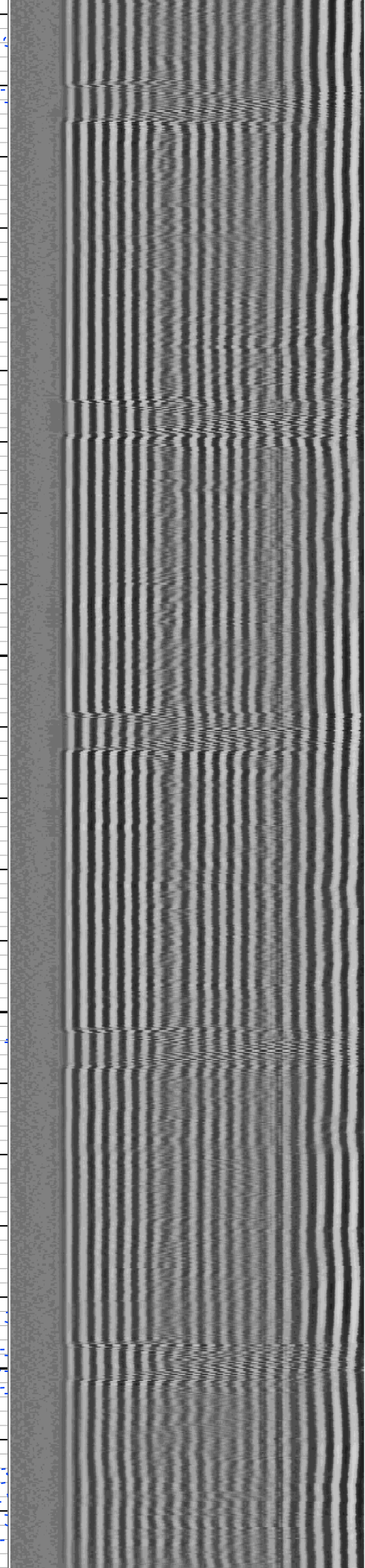
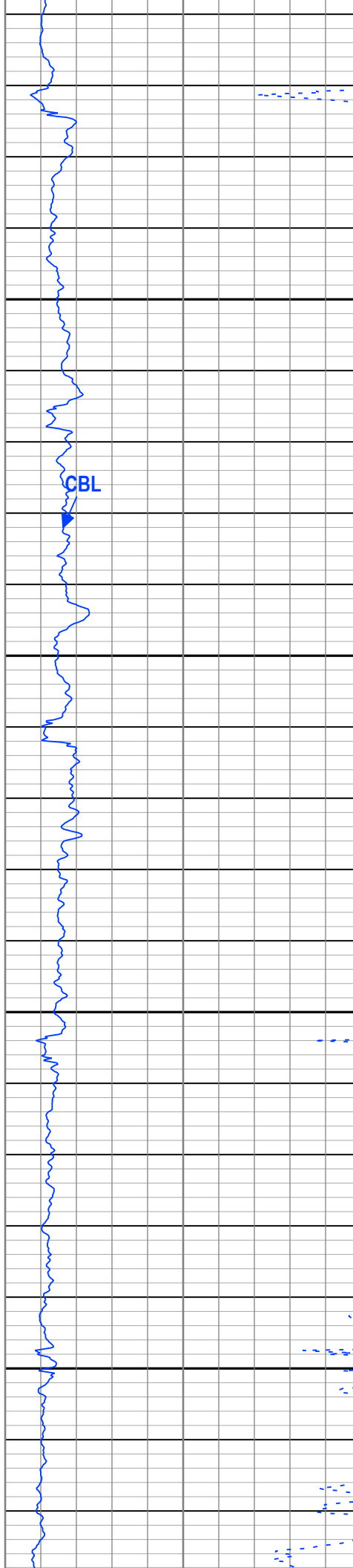
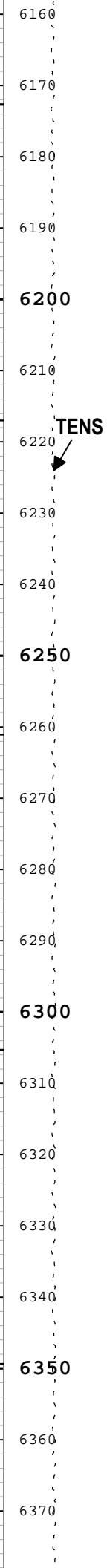
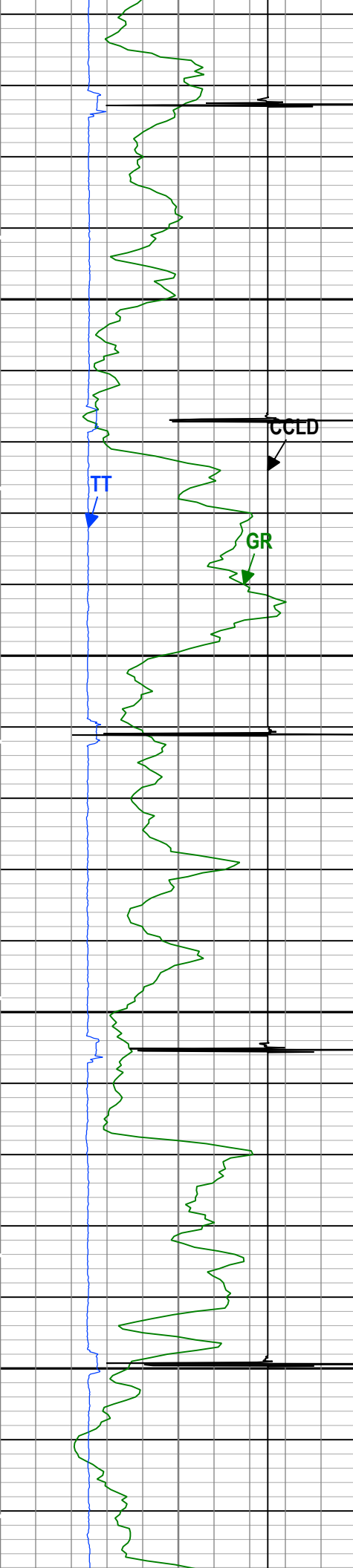


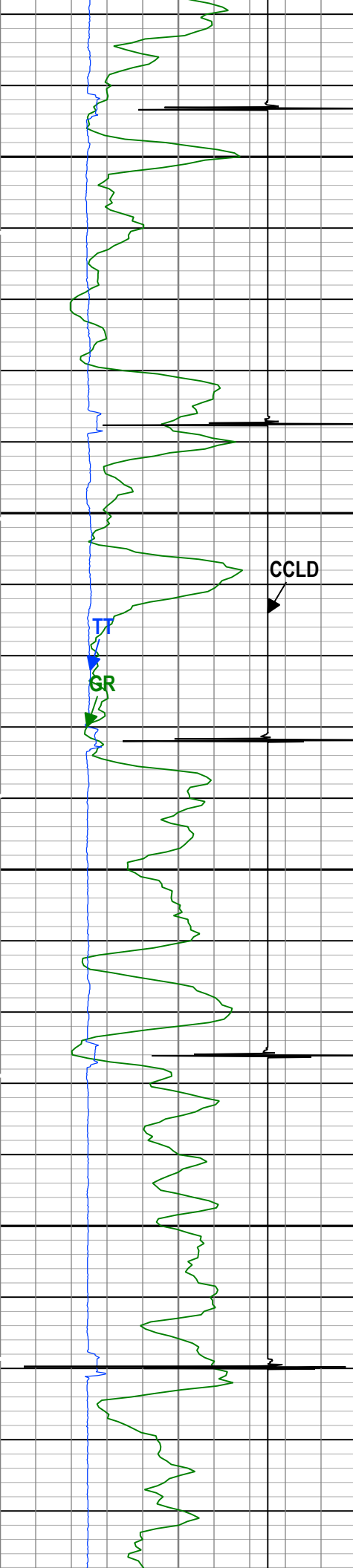


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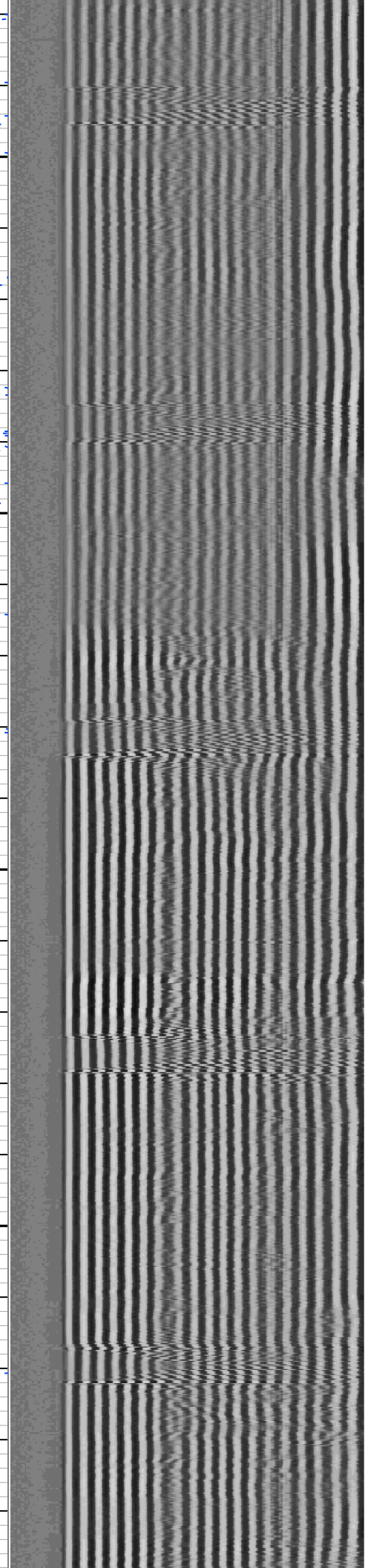
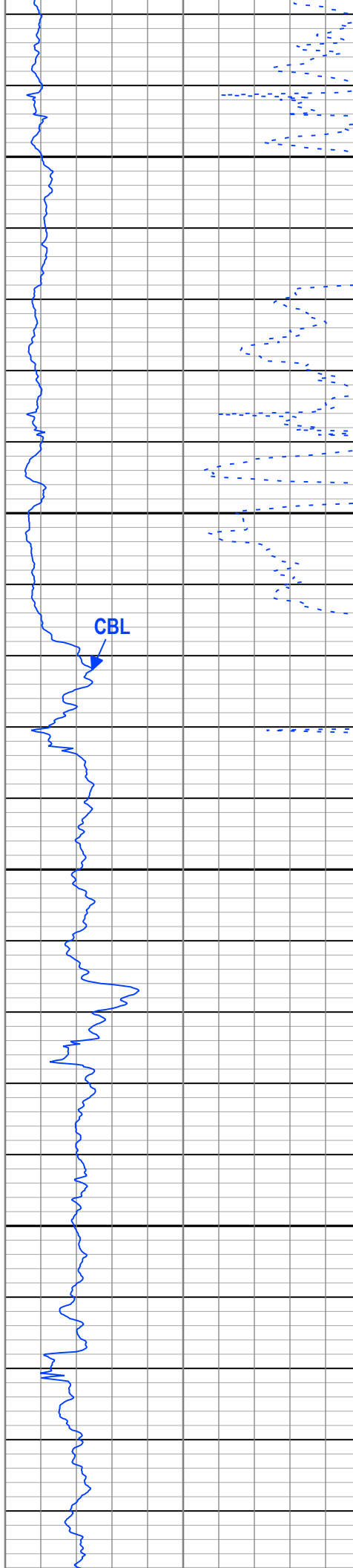


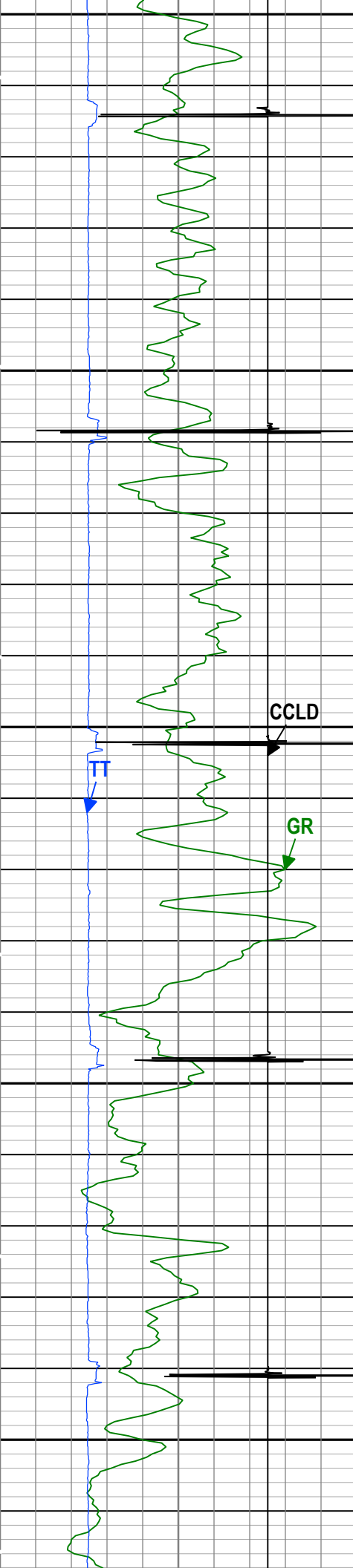






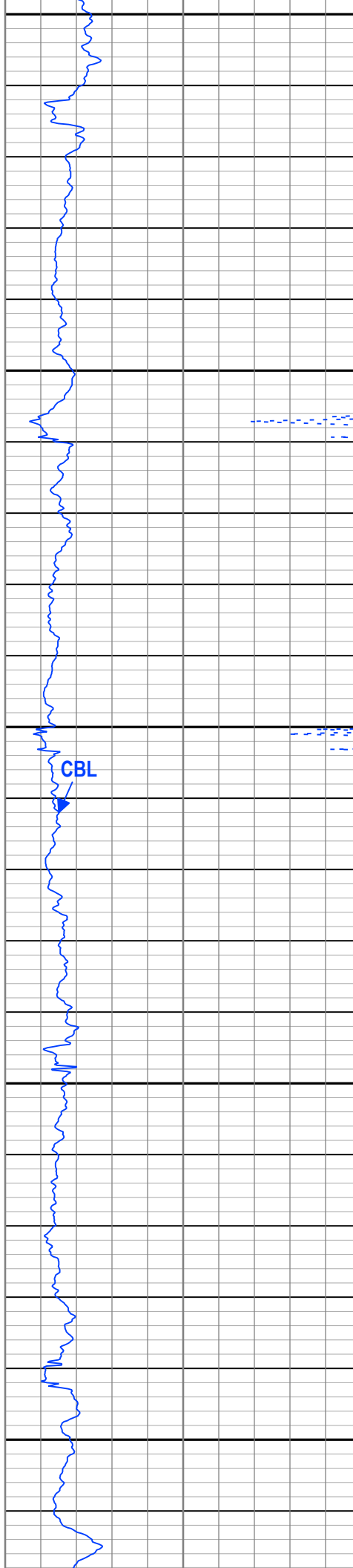
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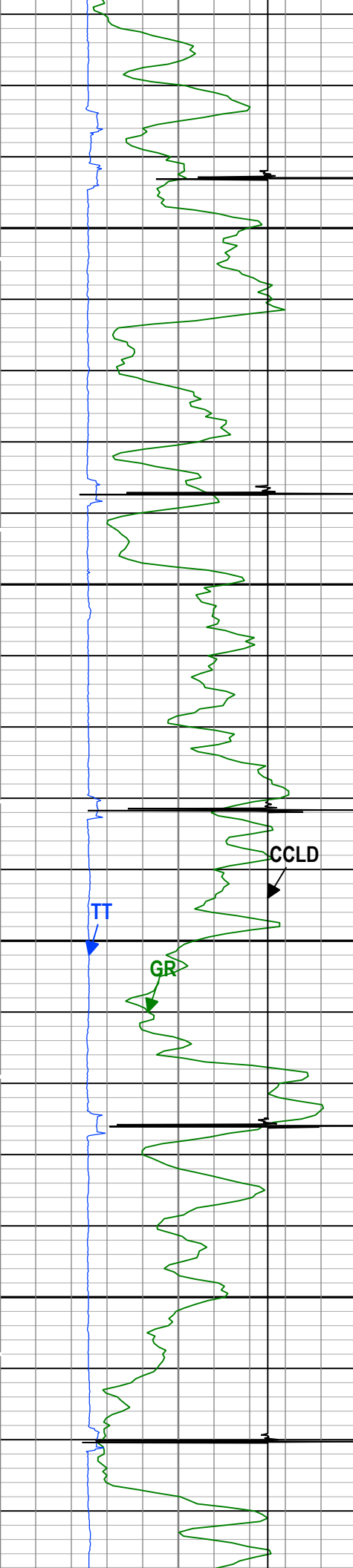




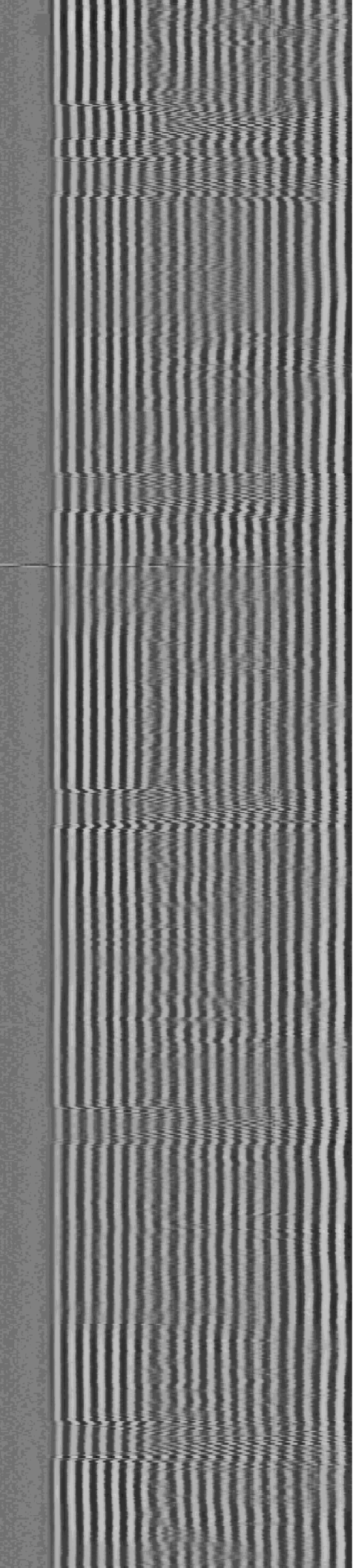
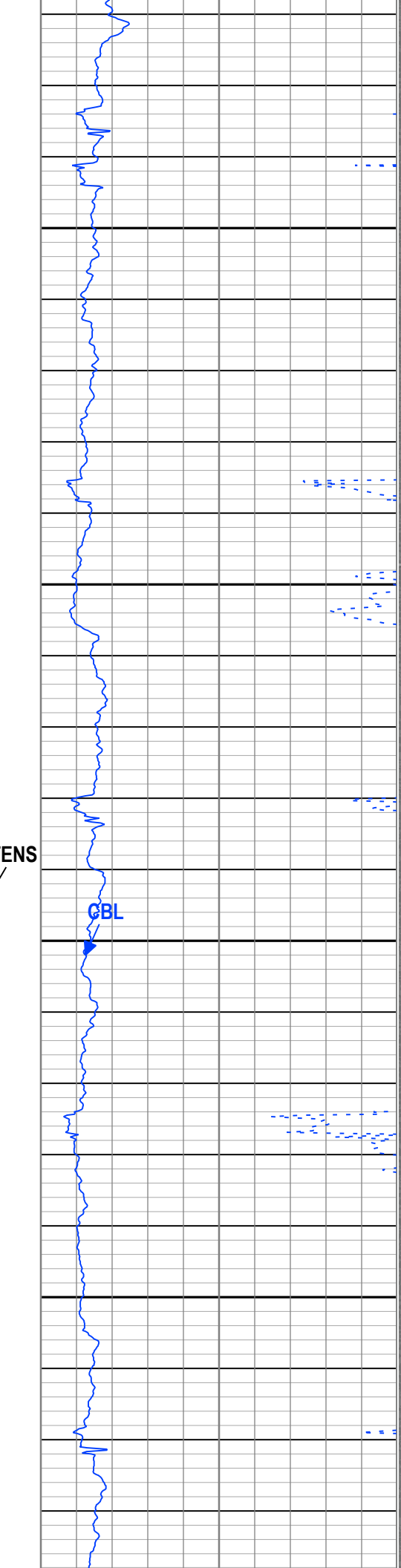
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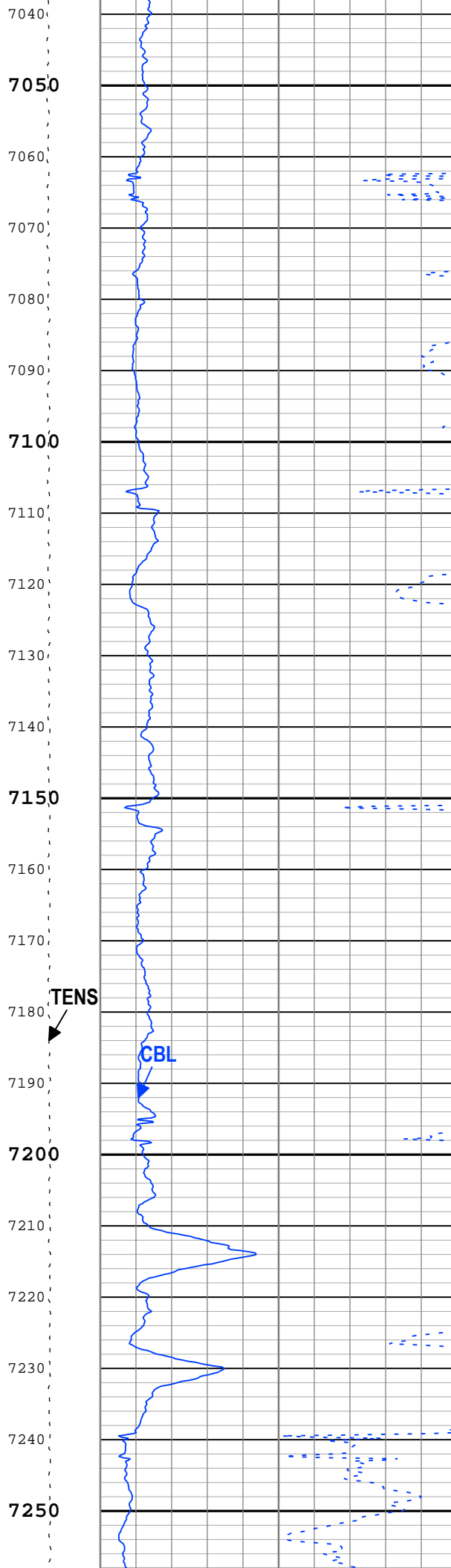
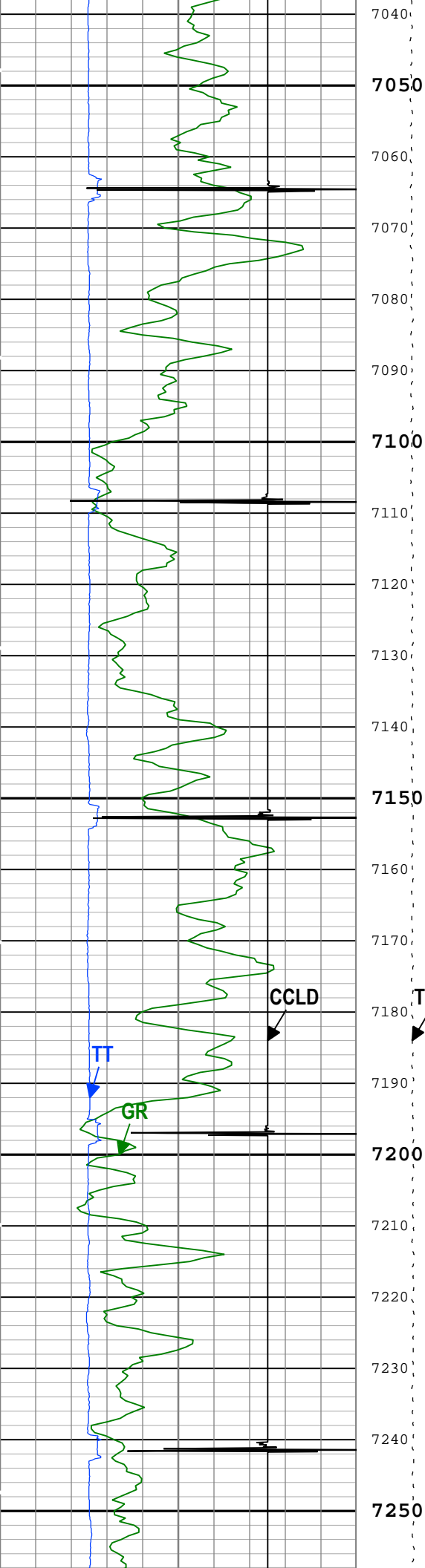
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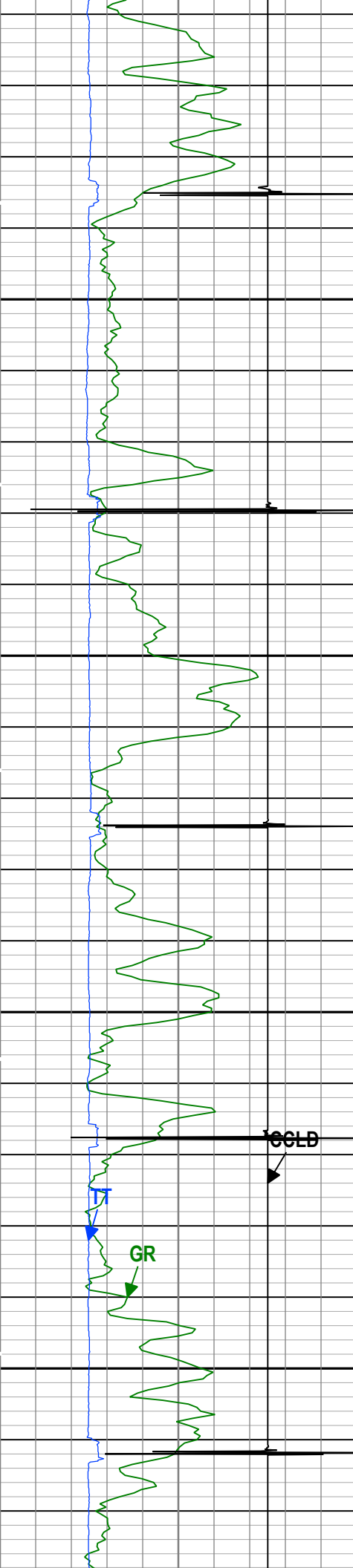




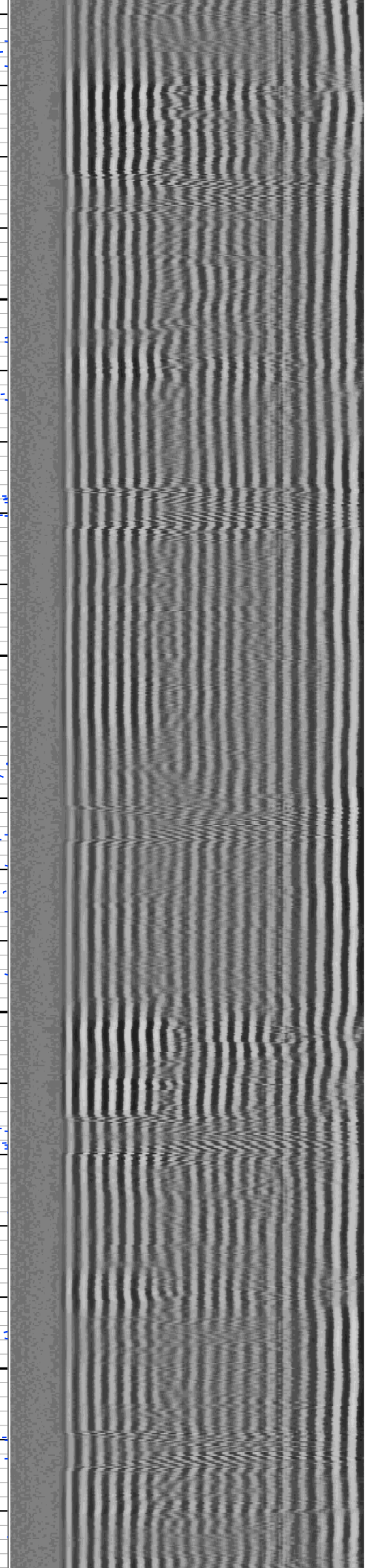
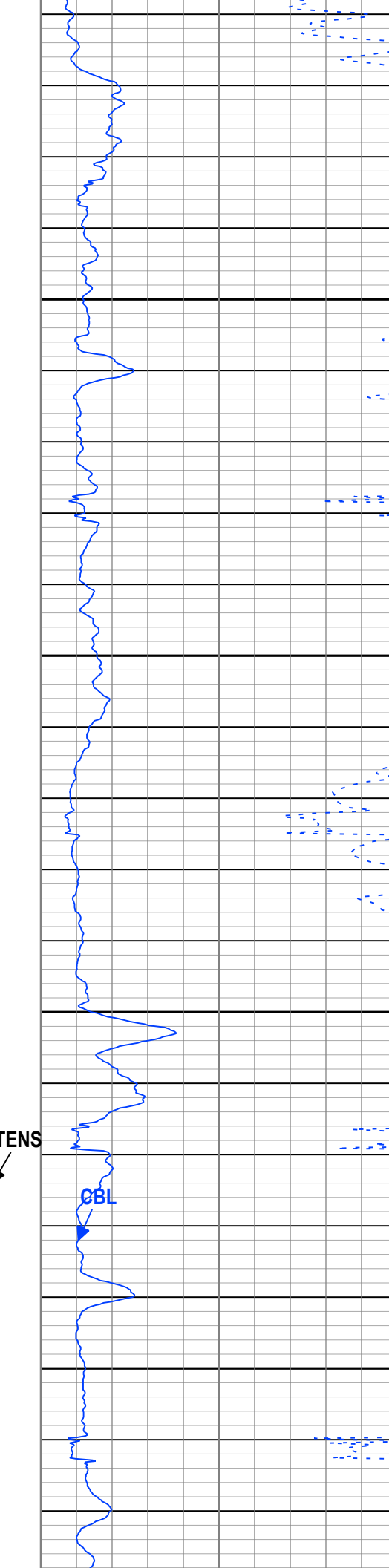
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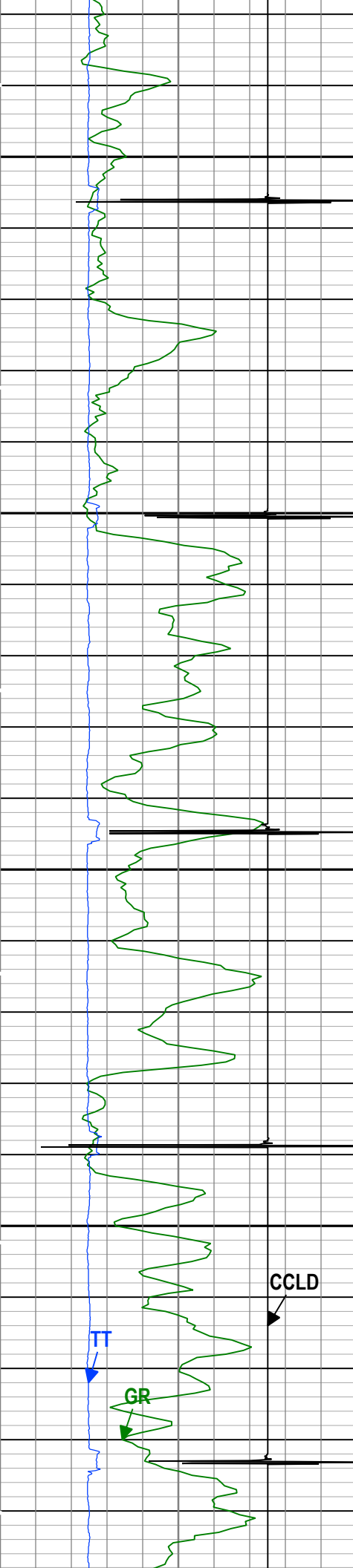




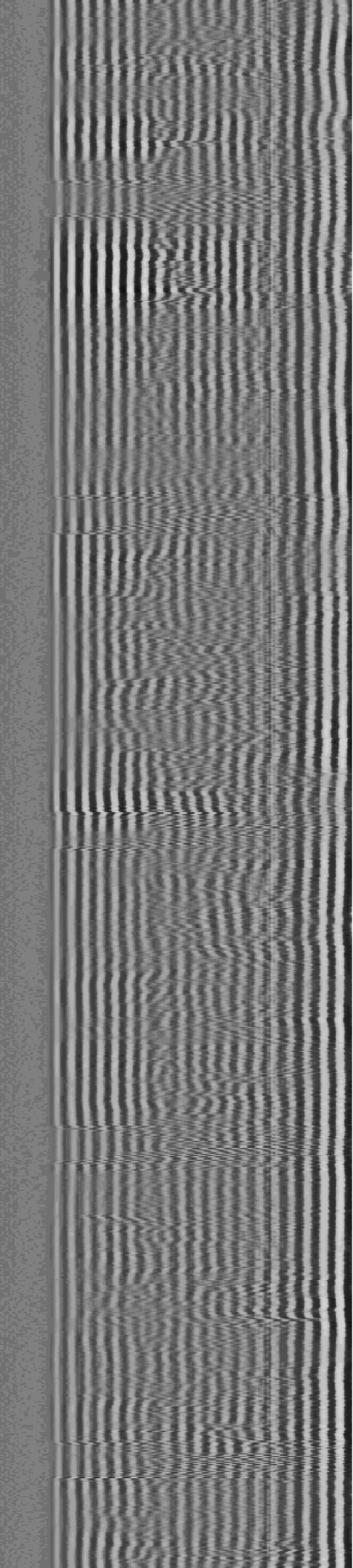
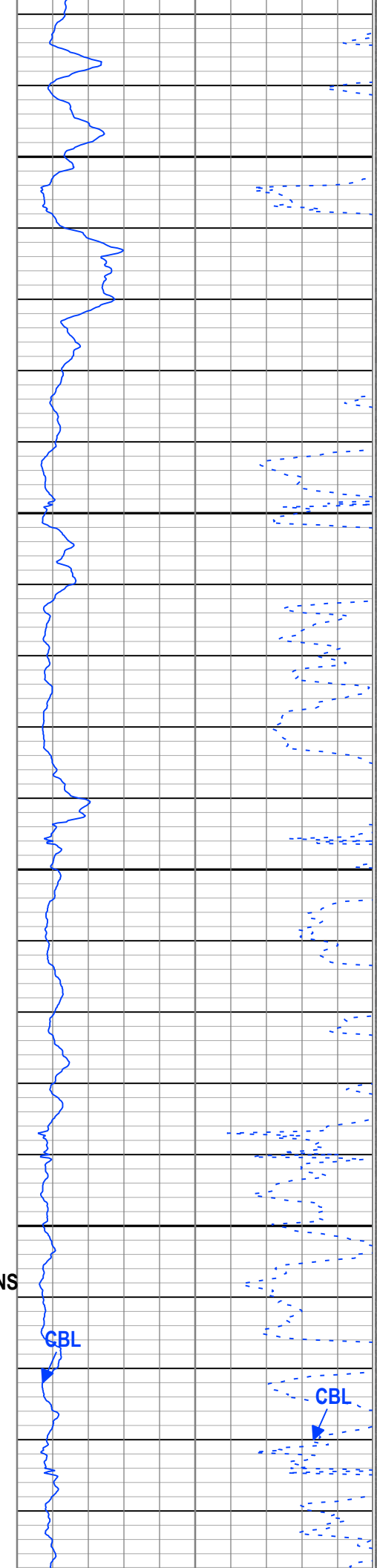


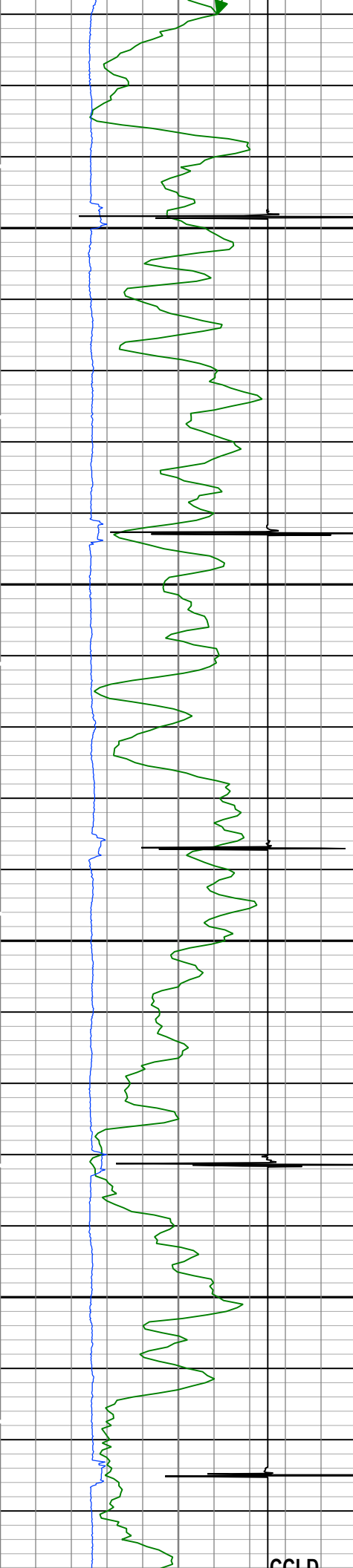
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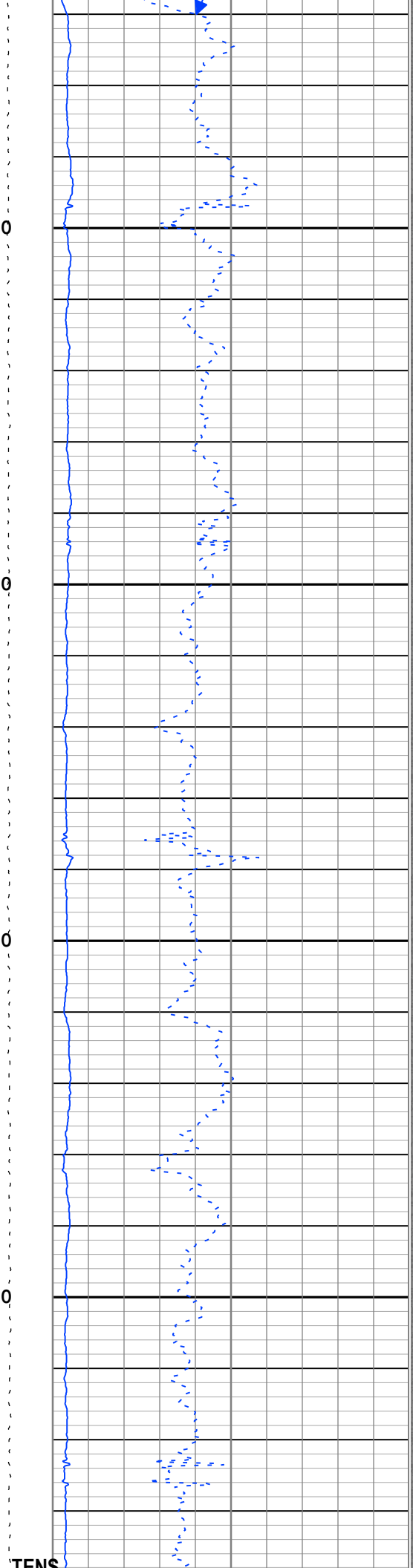


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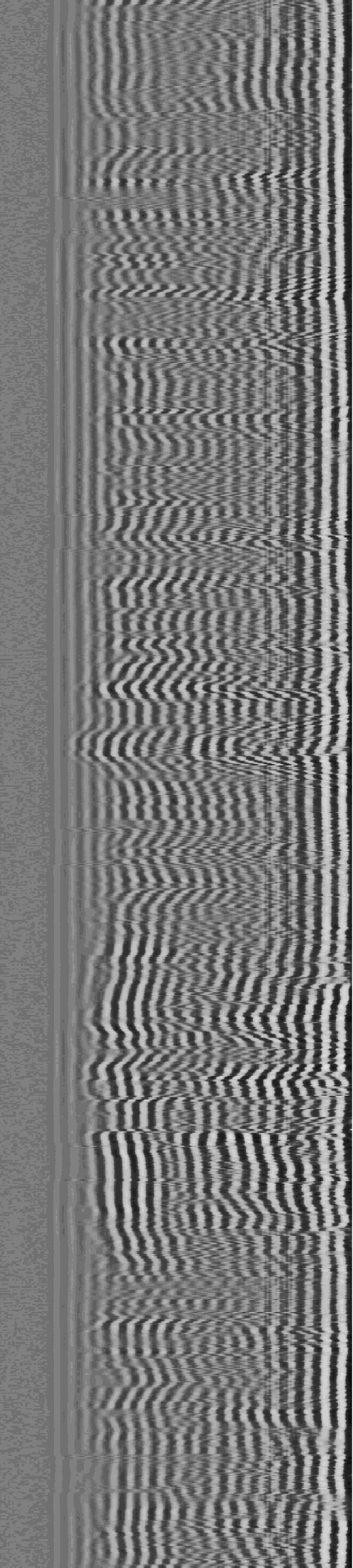


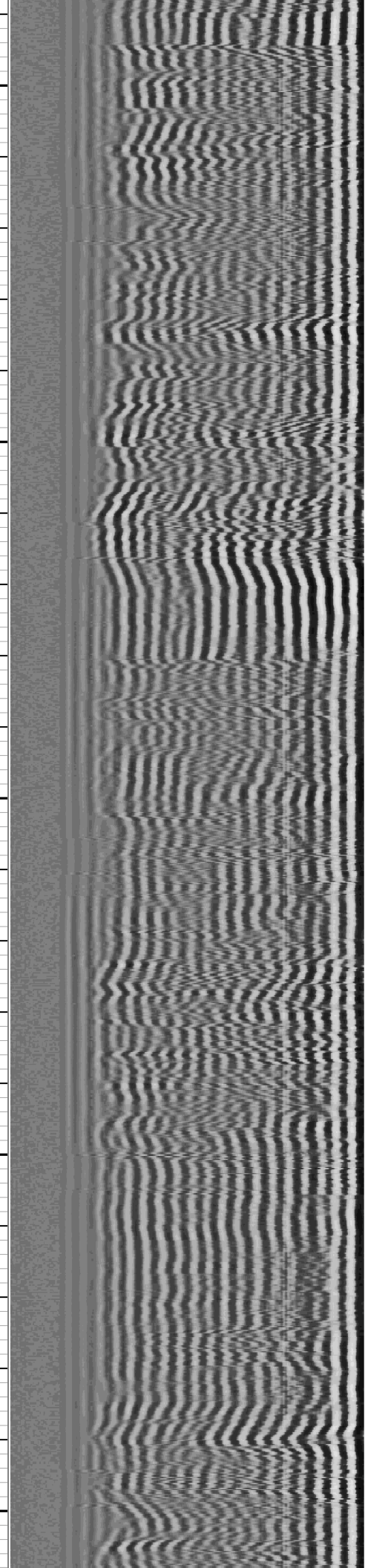
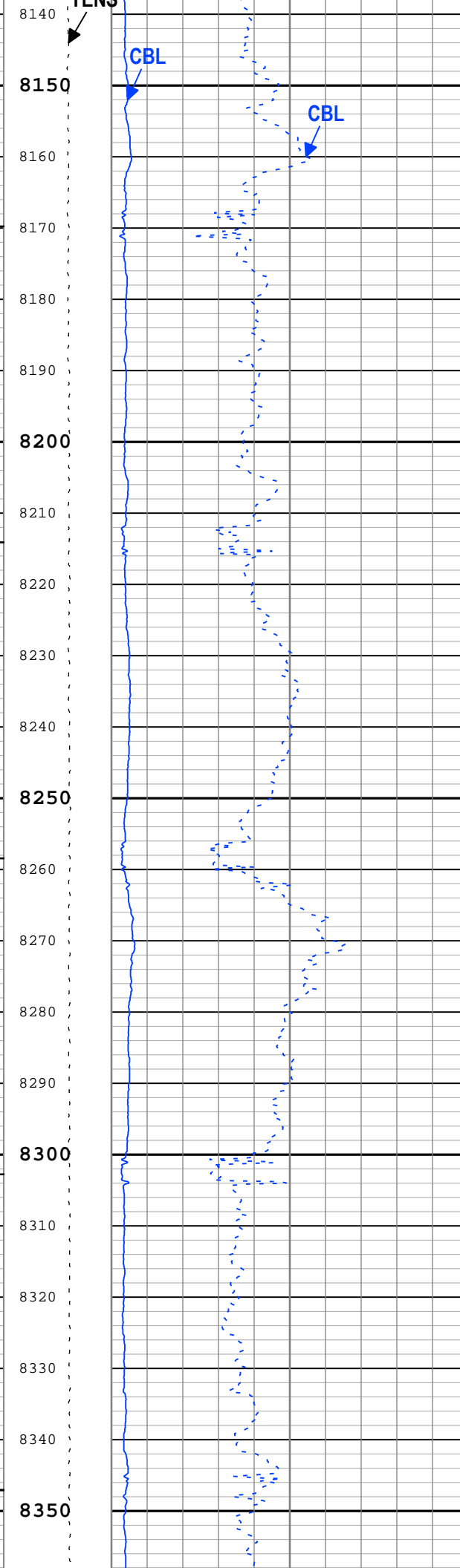
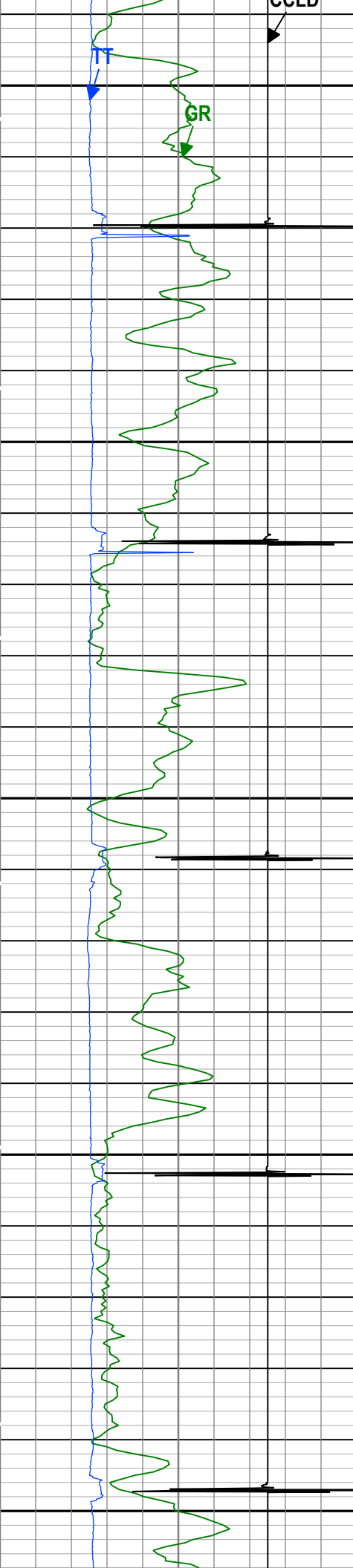


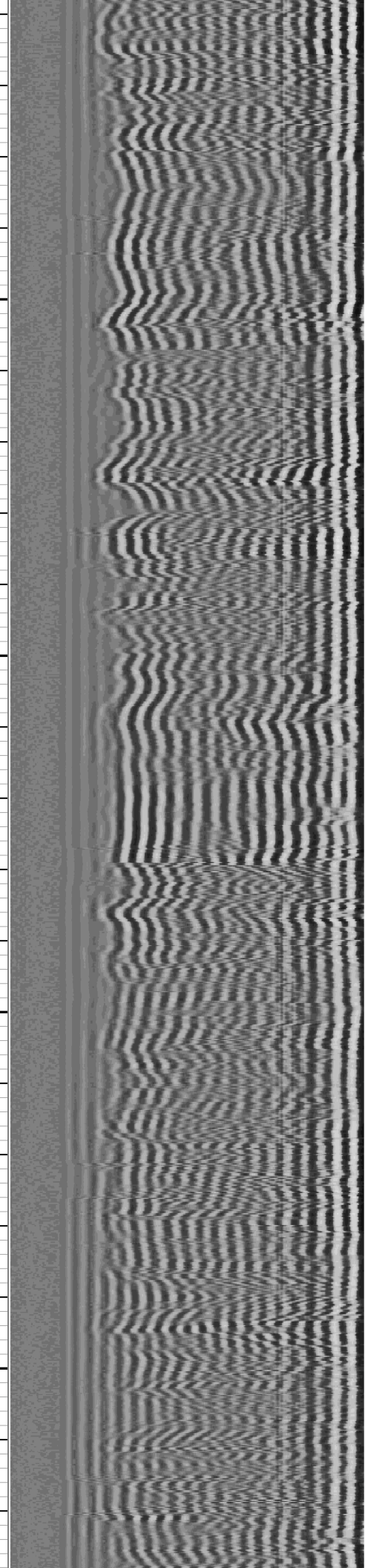
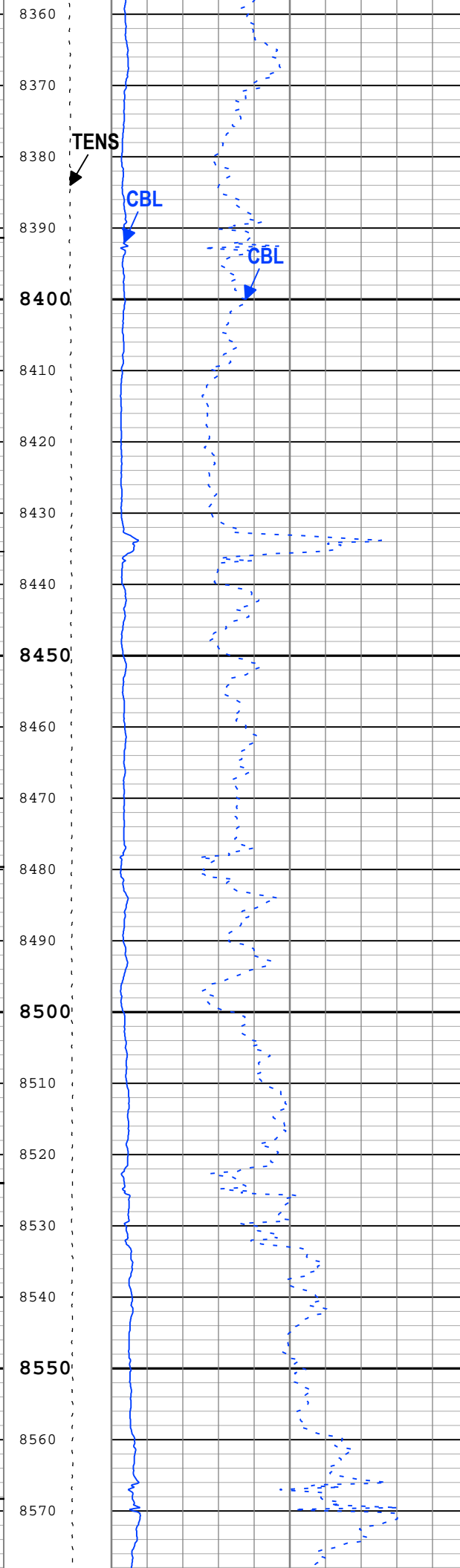
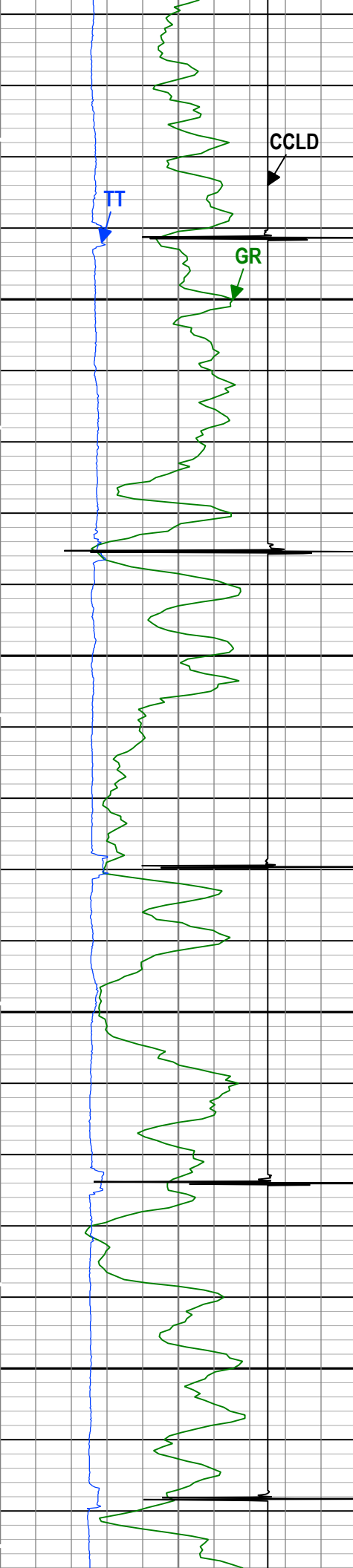
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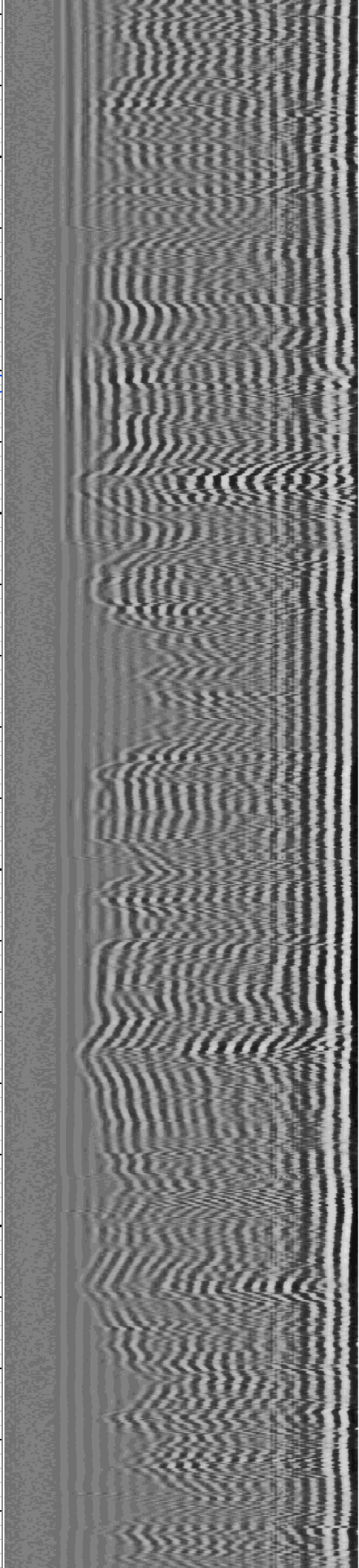
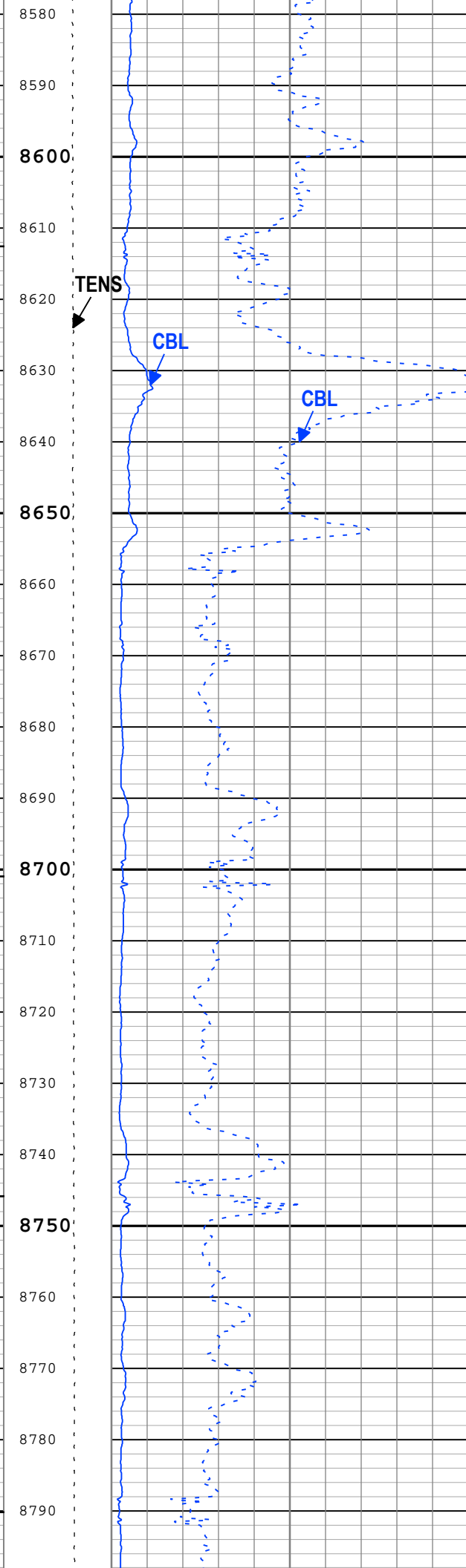
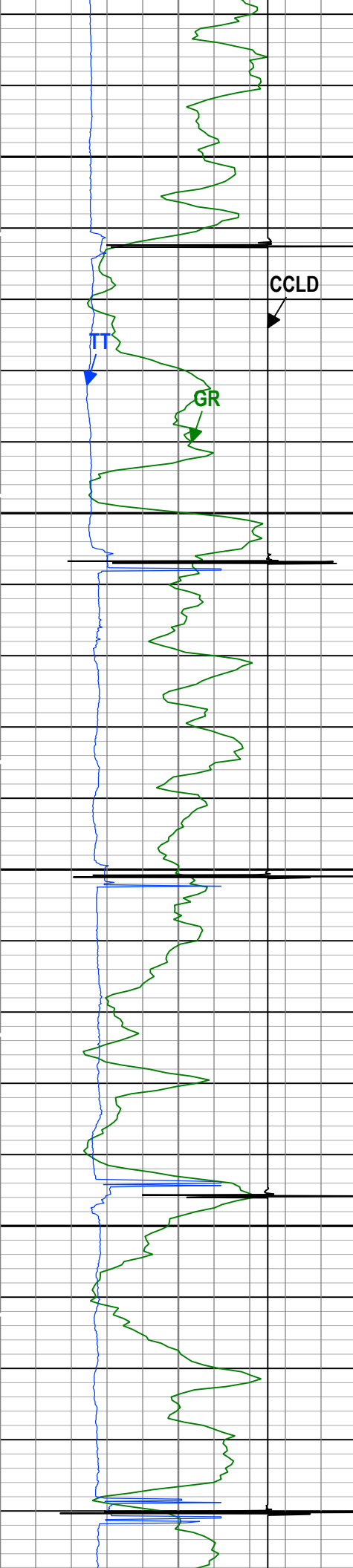


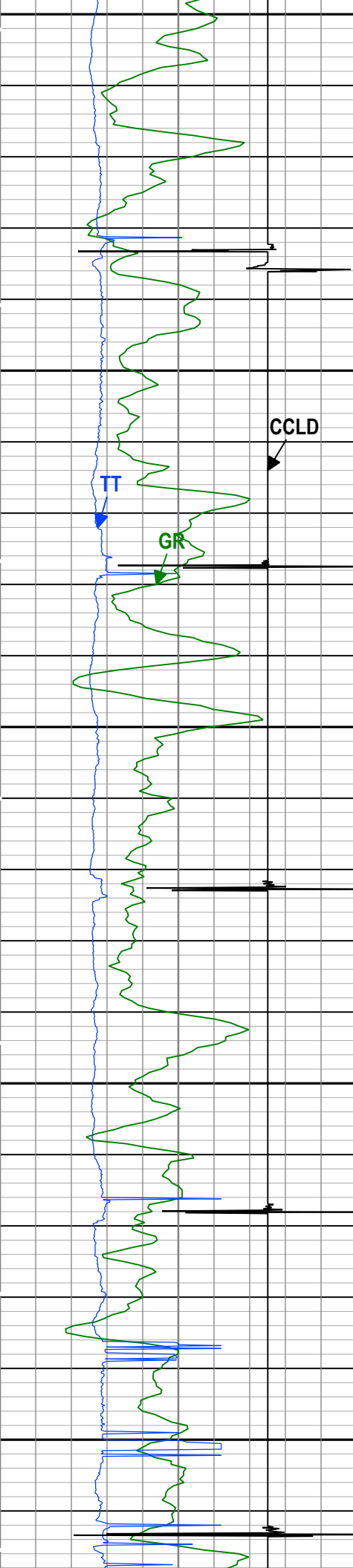
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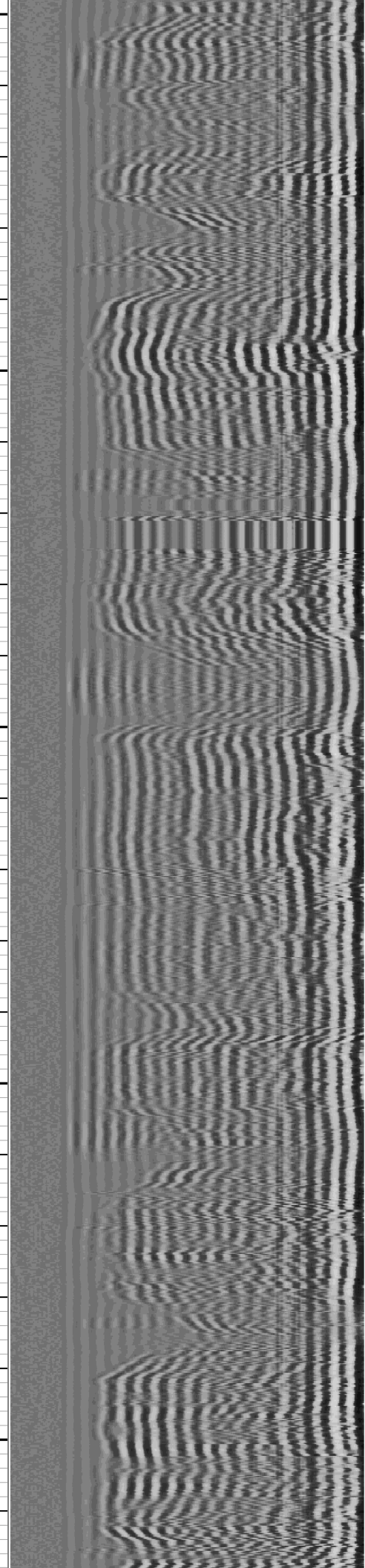
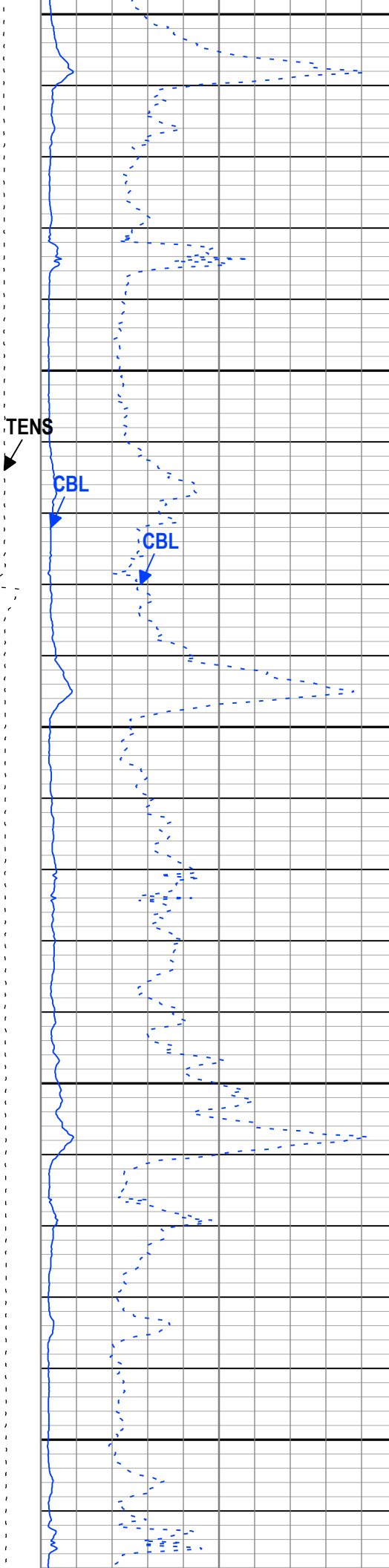


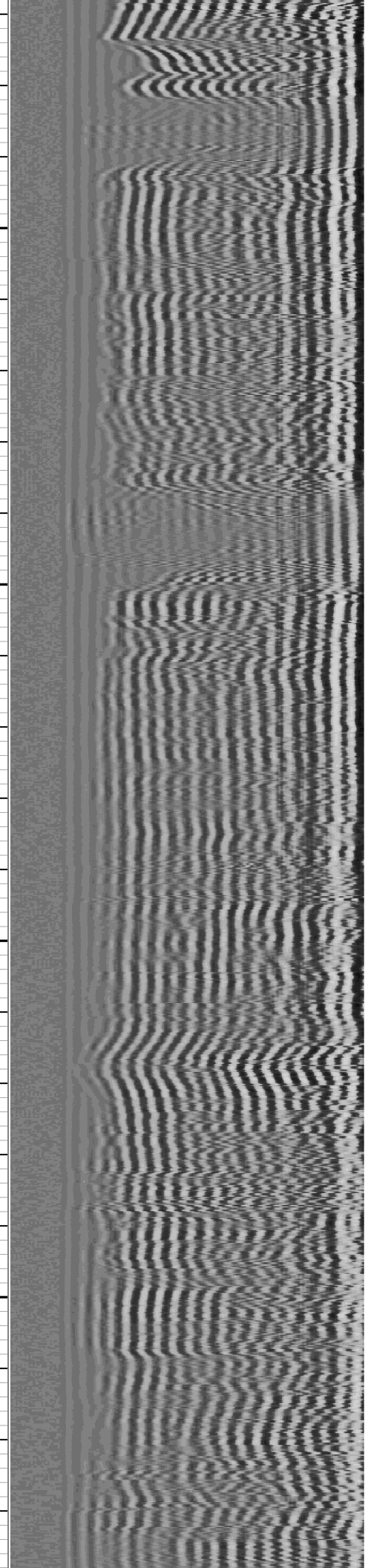
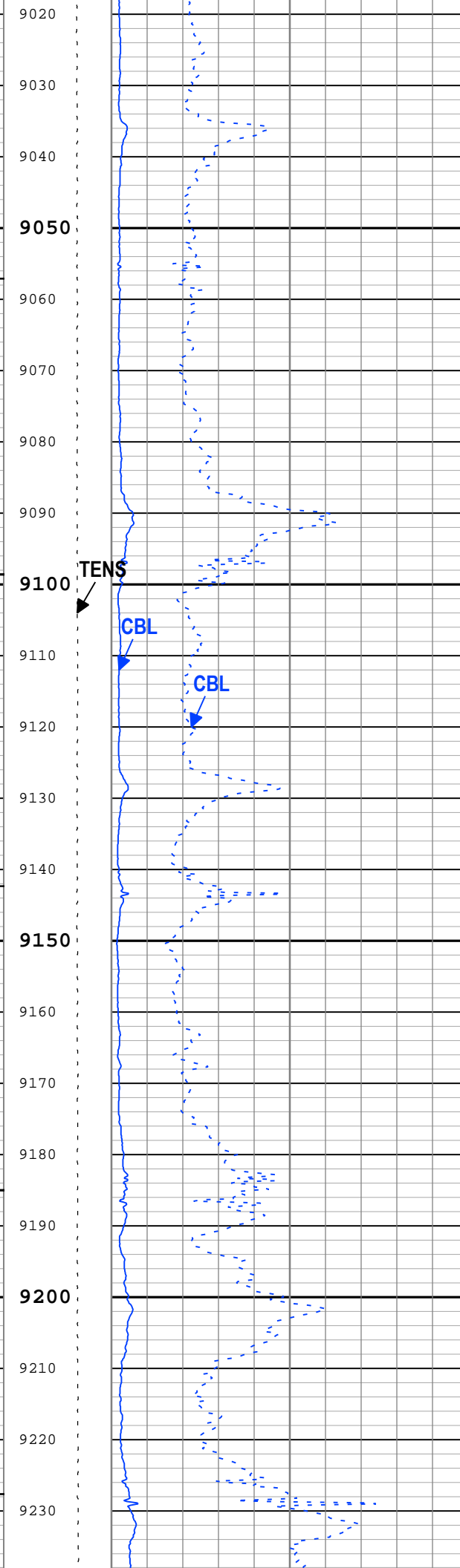
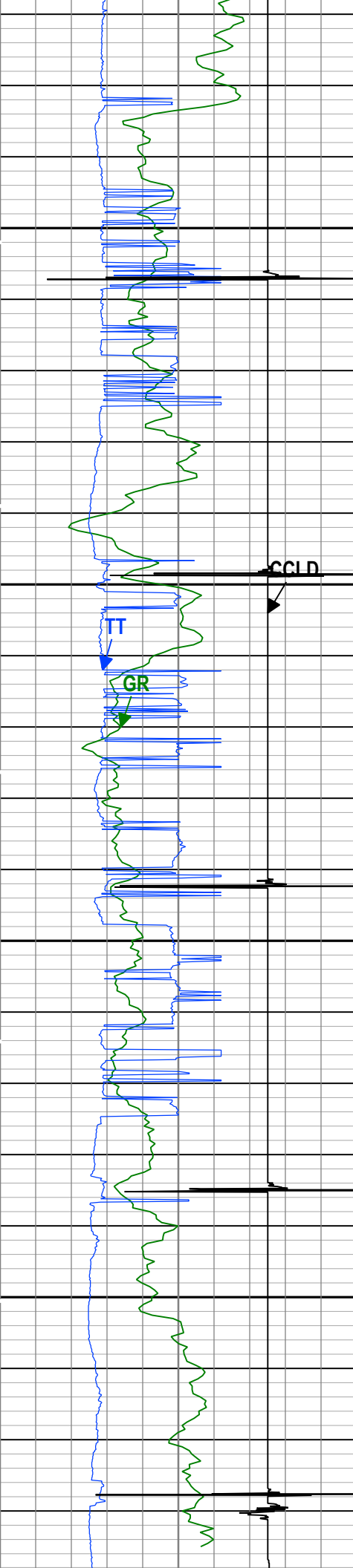


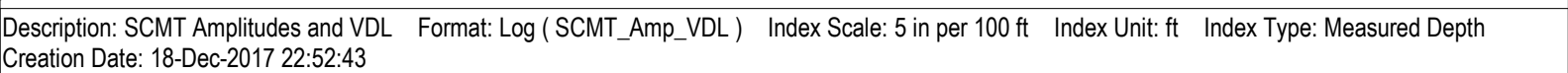




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RST/SCMT: Parameters

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
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All depth are actual.

RST/SCMT: 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-B	12 dB	

RST/SCMT

CBL Repeat Pass

Software Version

Acquisition System	Version
Maxwell 2017 SP3	7.3.92069.3100

Pass Summary

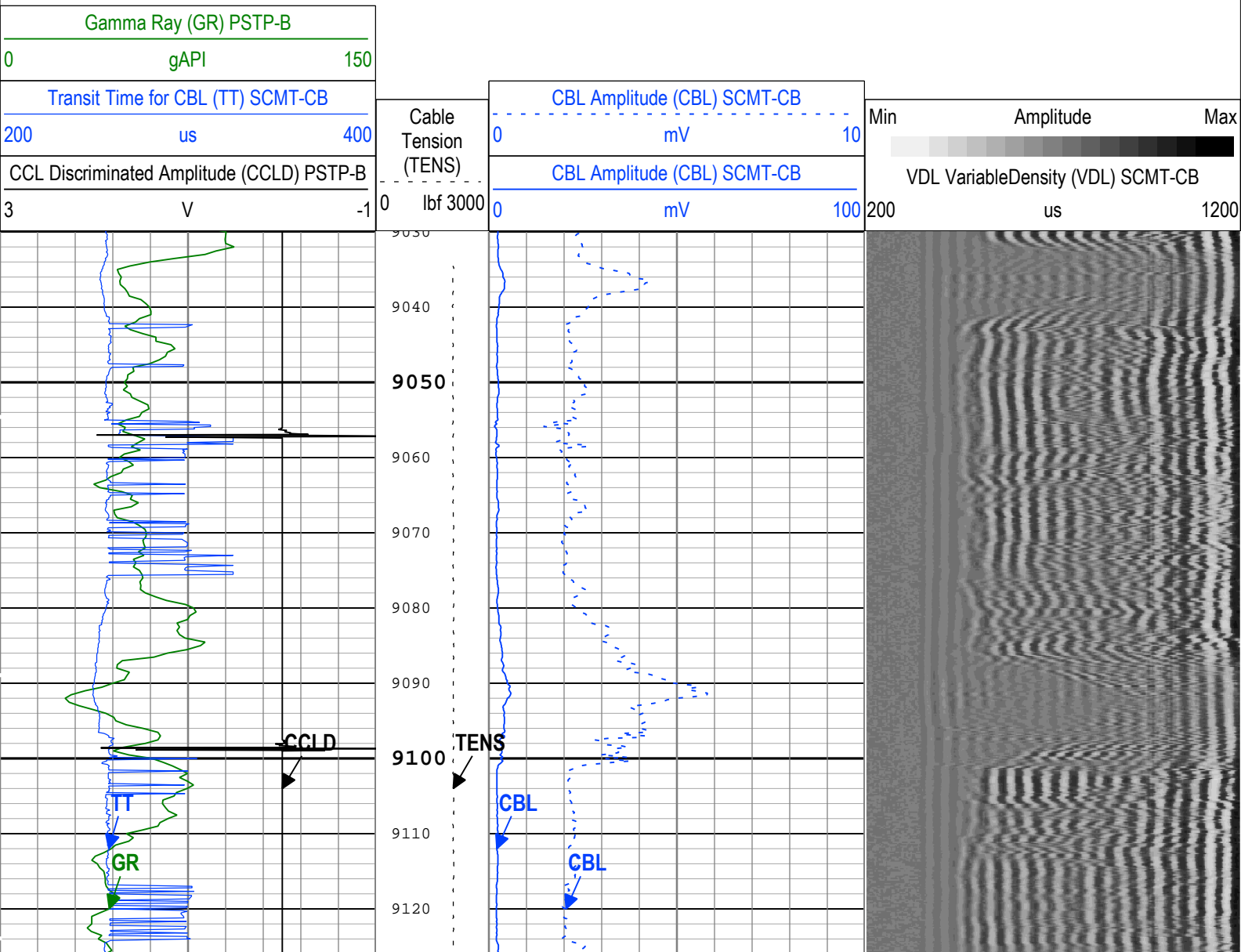
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
RST/SCMT	Log[3]:Up	Up	9034.43 ft	9284.18 ft	17-Dec-2017 6:07:17 PM	17-Dec-2017 6:14:35 PM	ON	0.00 ft	No

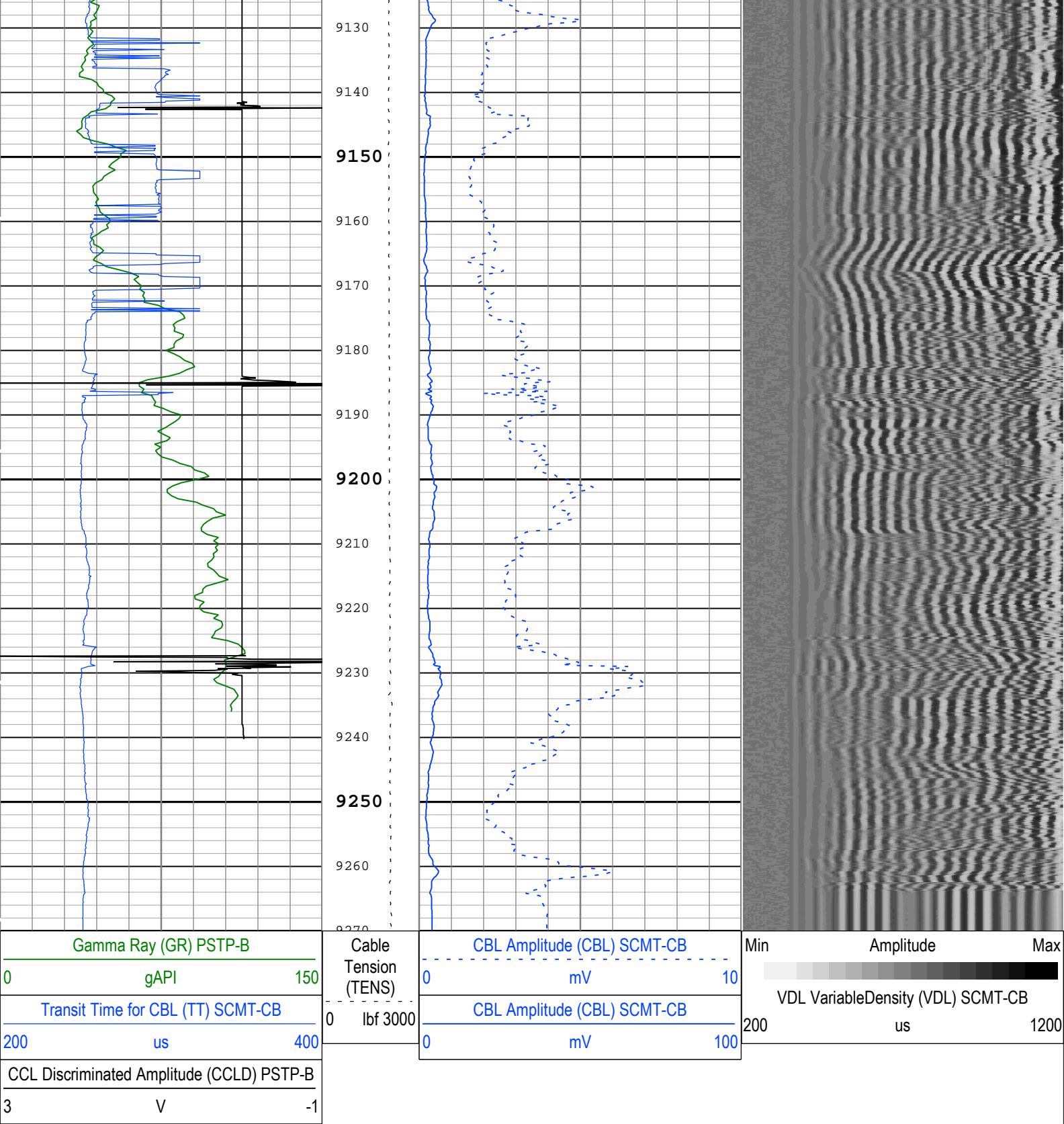
All depths are referenced to toolstring zero

Log	Company:Caerus Operating LLC Well:Puckett 14B-23 697 RST/SCMT: Log[3]:Up:S002
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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: 18-Dec-2017 22:52:55

TIME_1900 - Time Marked every 60.00 (s)





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: 18-Dec-2017 22:52:55

Channel Processing Parameters				
RST/SCMT: 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

THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
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
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MSA	Minimum Sonic Amplitude	SCMT-CB	0.51	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	2	
SHT	Surface Hole Temperature	Borehole	68	degF

Tool Control Parameters

RST/SCMT: 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-B	Time Zoned	

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
PCCG	24 dB	17-Dec-2017 18:07:17	17-Dec-2017 18:09:30	9284.18	9213.04
PCCG	12 dB	17-Dec-2017 18:09:30	17-Dec-2017 18:14:35	9213.04	9034.42

All depth are at tool zero.

RST/SCMT

Free Pipe 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
RST/SCMT	Log[1]:Up	Up	1261.82 ft	1501.13 ft	17-Dec-2017 5:26:09 PM	17-Dec-2017 5:31:22 PM	ON	0.00 ft	No

All depths are referenced to toolstring zero

Log

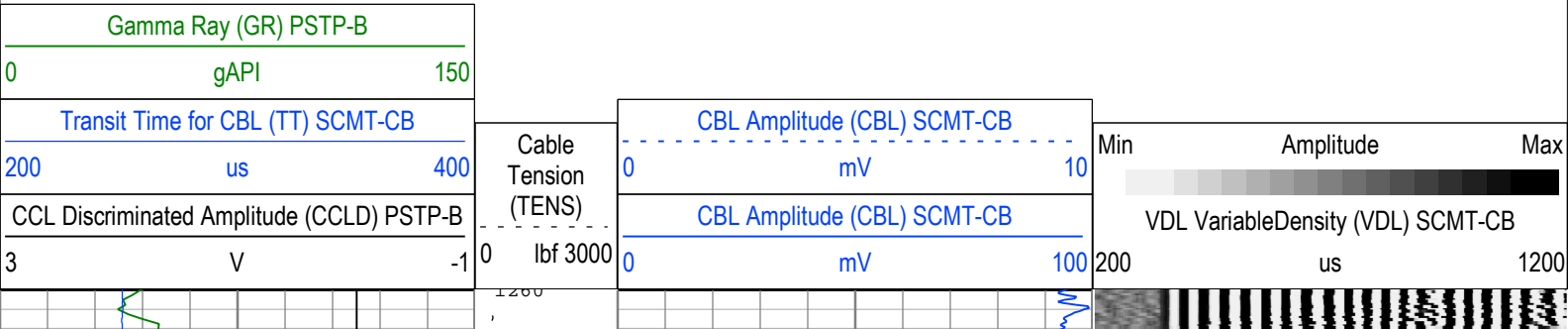
Company:Caerus Operating LLC Well:Puckett 14B-23 697

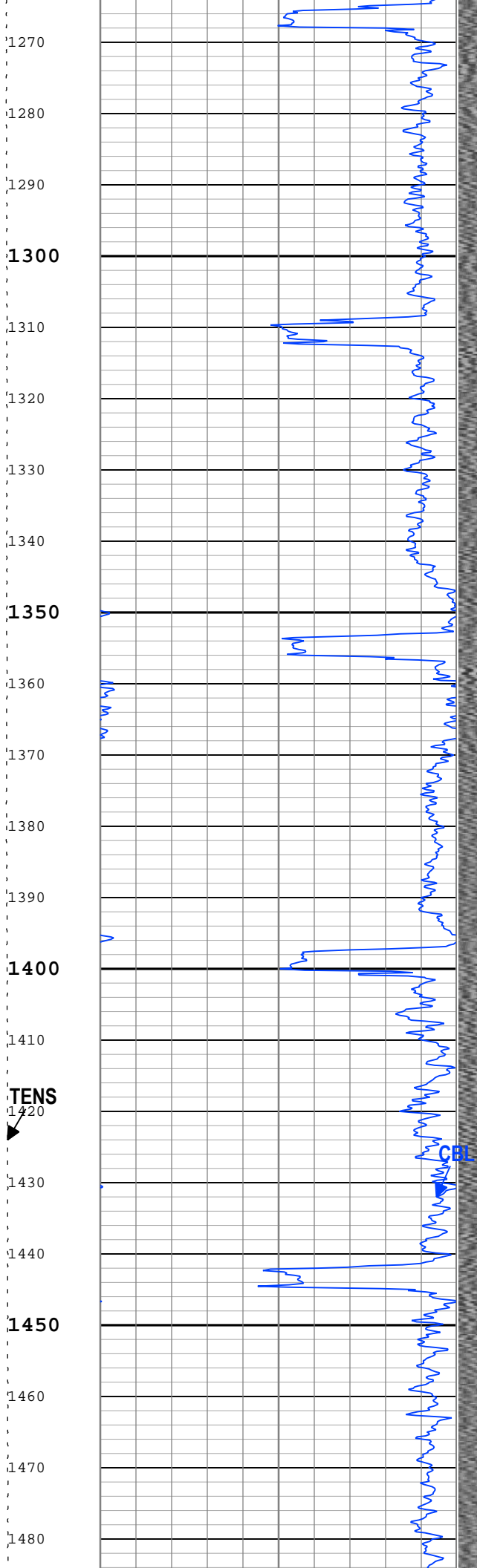
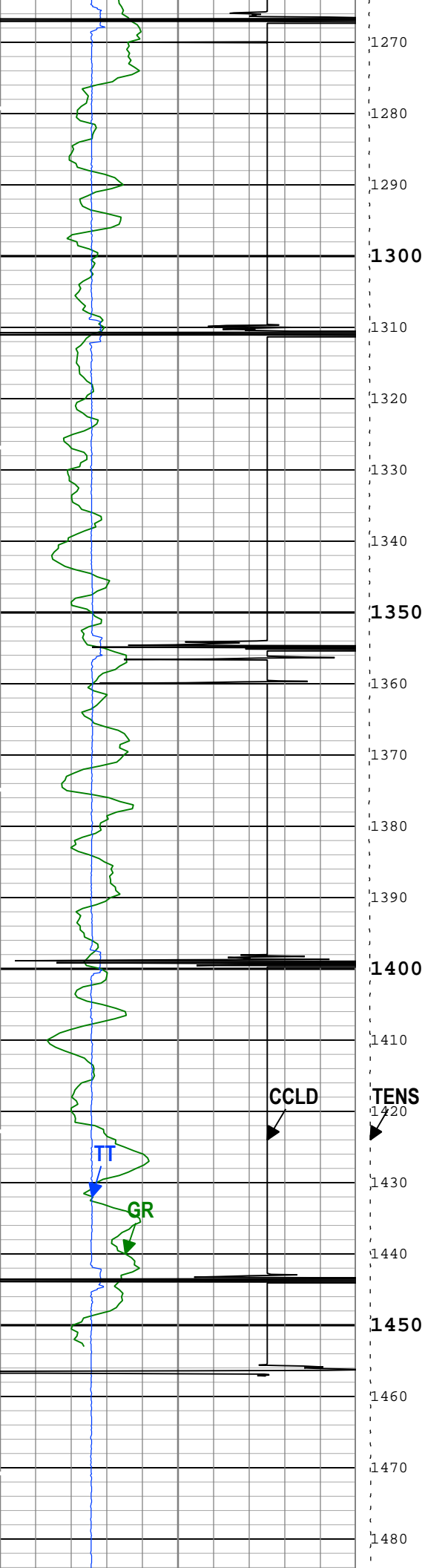
RST/SCMT: Log[1]:Up:S002

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: 18-Dec-2017 22:52:58

TIME_1900 - Time Marked every 60.00 (s)







RST/SCMT: Parameters

Tool Control Parameters	
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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-B	Time Zoned	

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
PCCG	36 dB	17-Dec-2017 17:26:09	17-Dec-2017 17:31:04	1501.13	1275.91
PCCG	24 dB	17-Dec-2017 17:31:04	17-Dec-2017 17:31:22	1275.91	1261.82

RST/SCMT

Software Version	
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Manual 2017 GDS 7 2 02060 2100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
RST/SCMT	Log[4]:Up	Up	1818.48 ft	9283.03 ft	17-Dec-2017 6:20:34 PM	17-Dec-2017 9:26:27 PM	ON	0.00 ft	No

All depths are referenced to toolstring zero

Log

Company:Caerus Operating LLC

Well:Puckett 14B-23 697

RST/SCMT: Log[4]:Up:S002

Description: RST SIGMA Answer Format: Log (RST SIGMA Answer_2) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth

Creation Date: 18-Dec-2017 22:53:01

TIME_1900 - Time Marked every 60.00 (s)

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

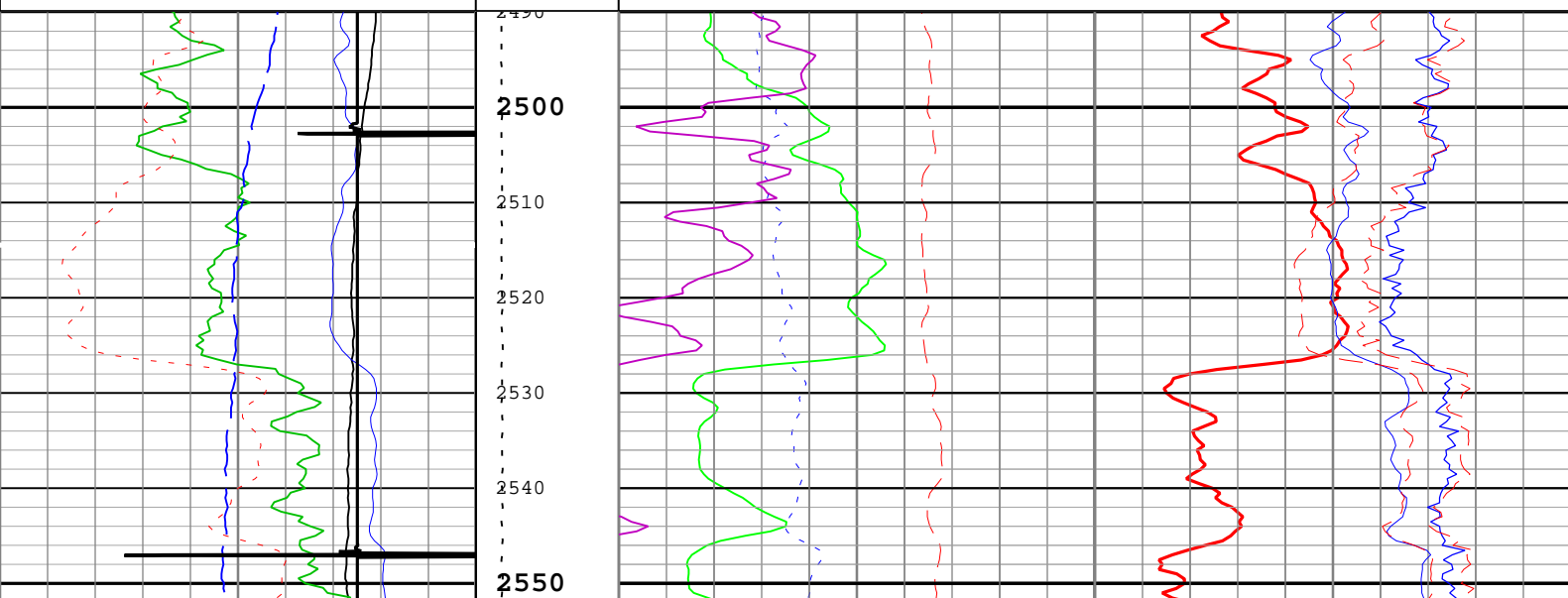
IHV - Integrated Hole Volume every 10.00 (ft3)

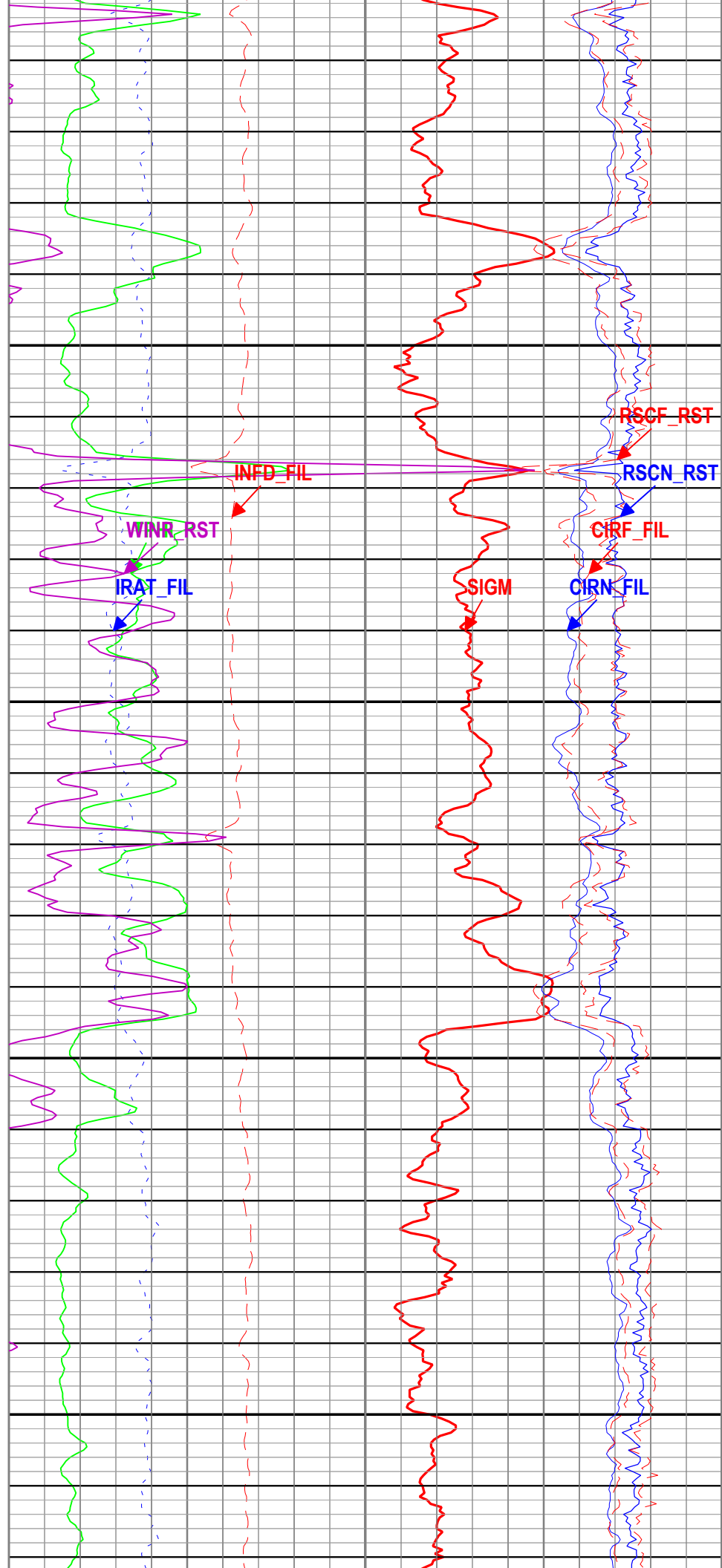
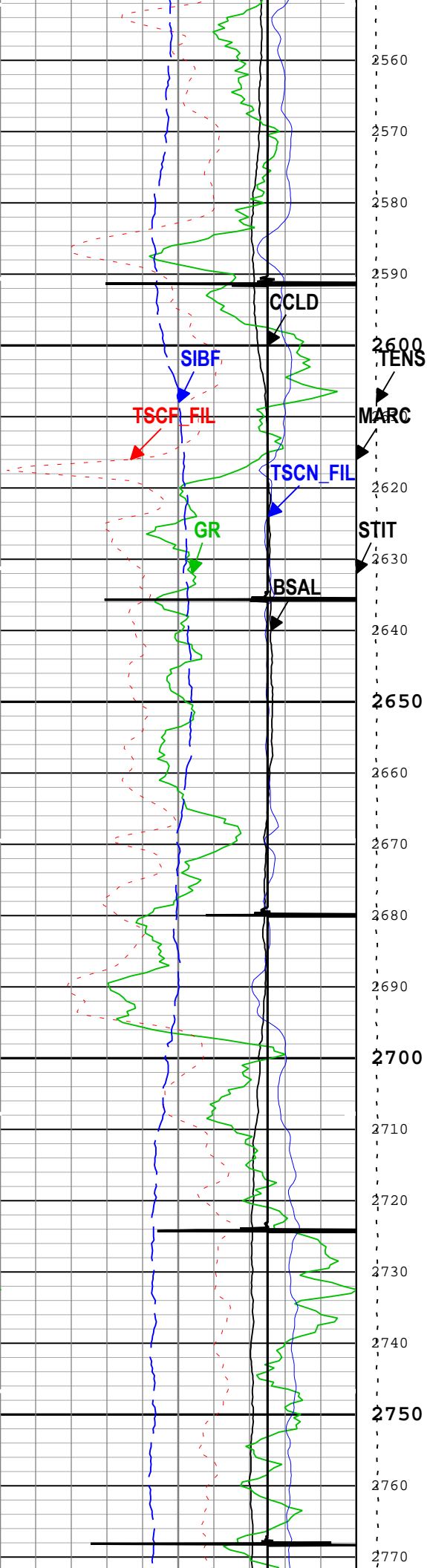
IHV - Integrated Hole Volume every 100.00 (ft3)

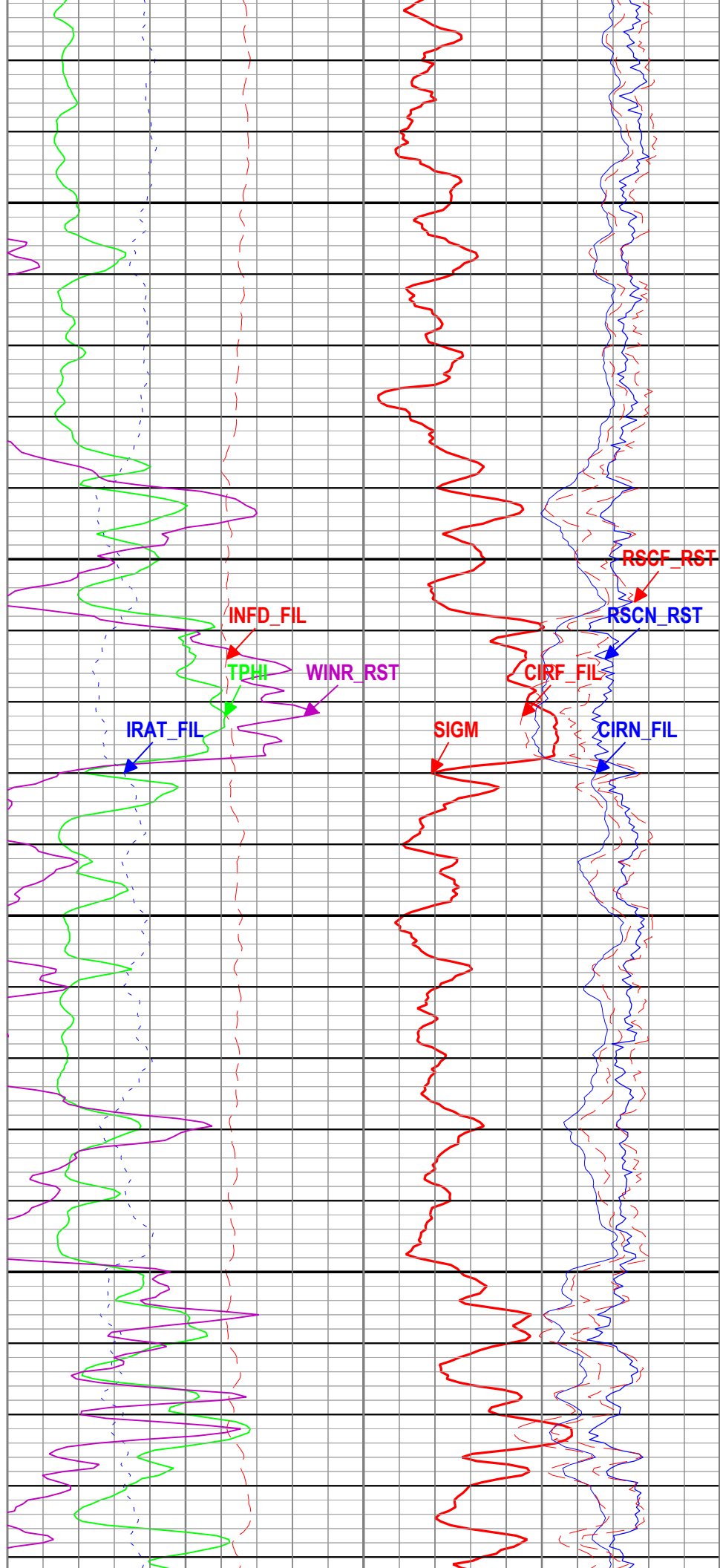
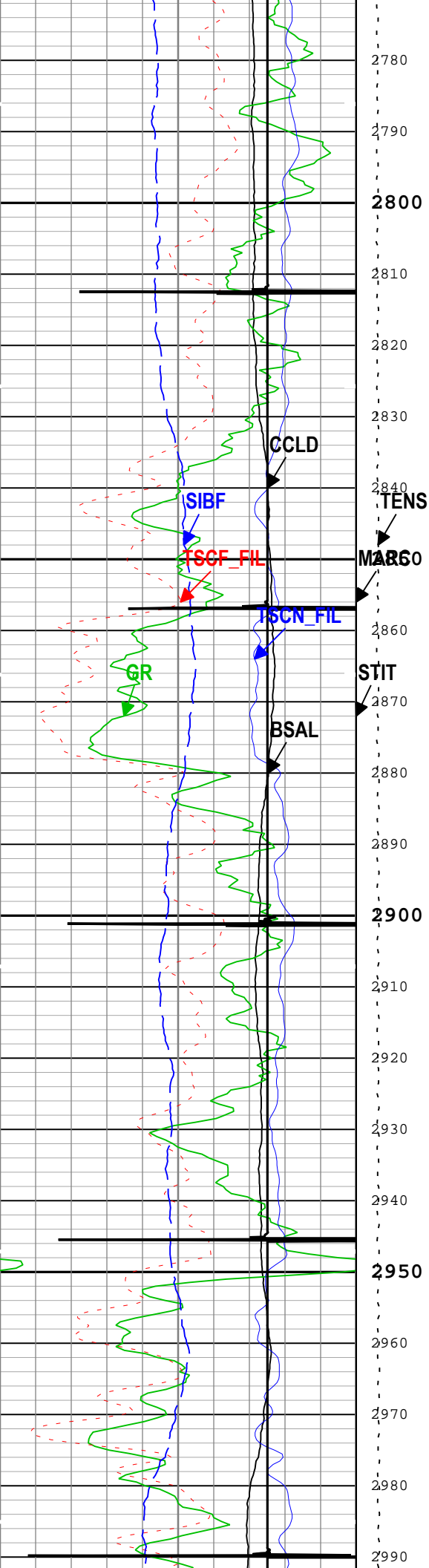
ICV - Integrated Cement Volume every 10.00 (ft3)

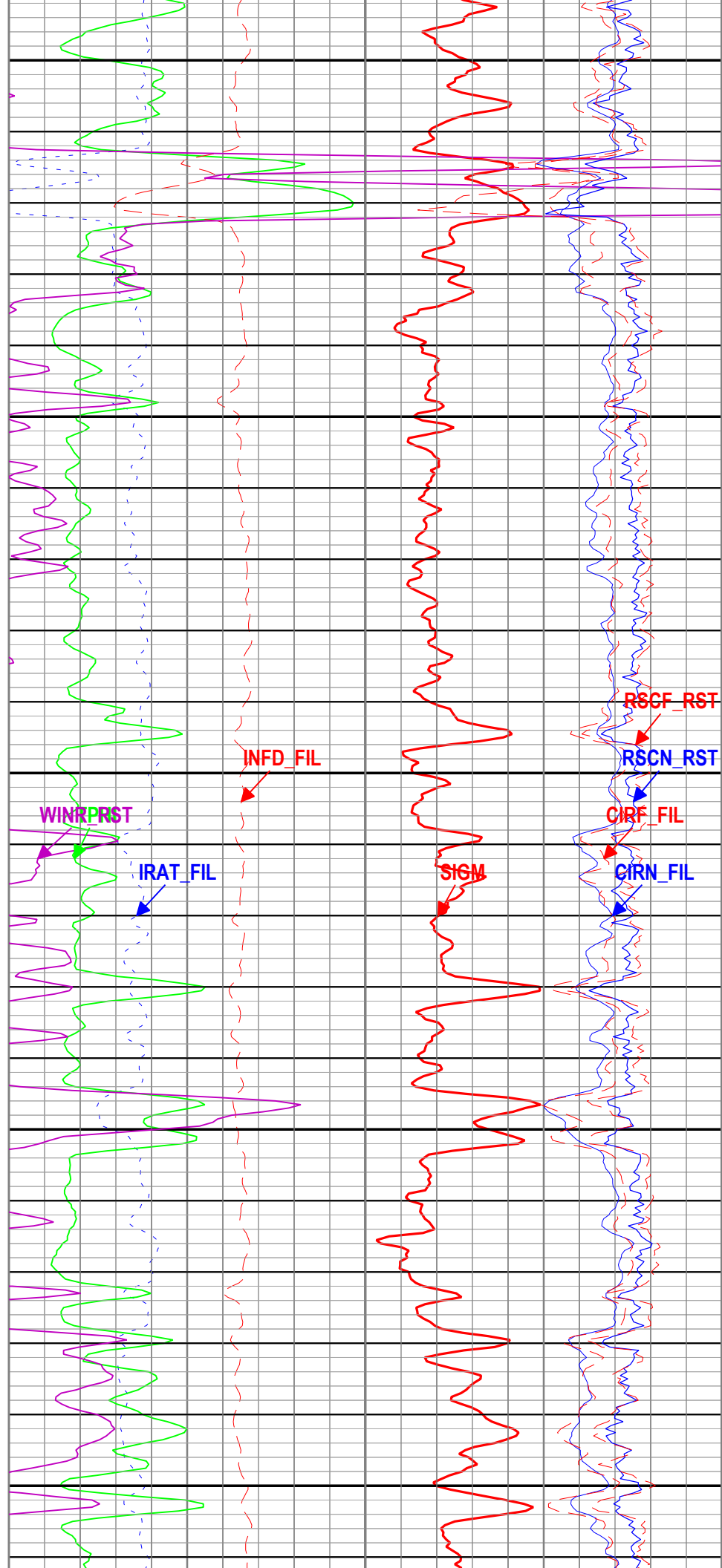
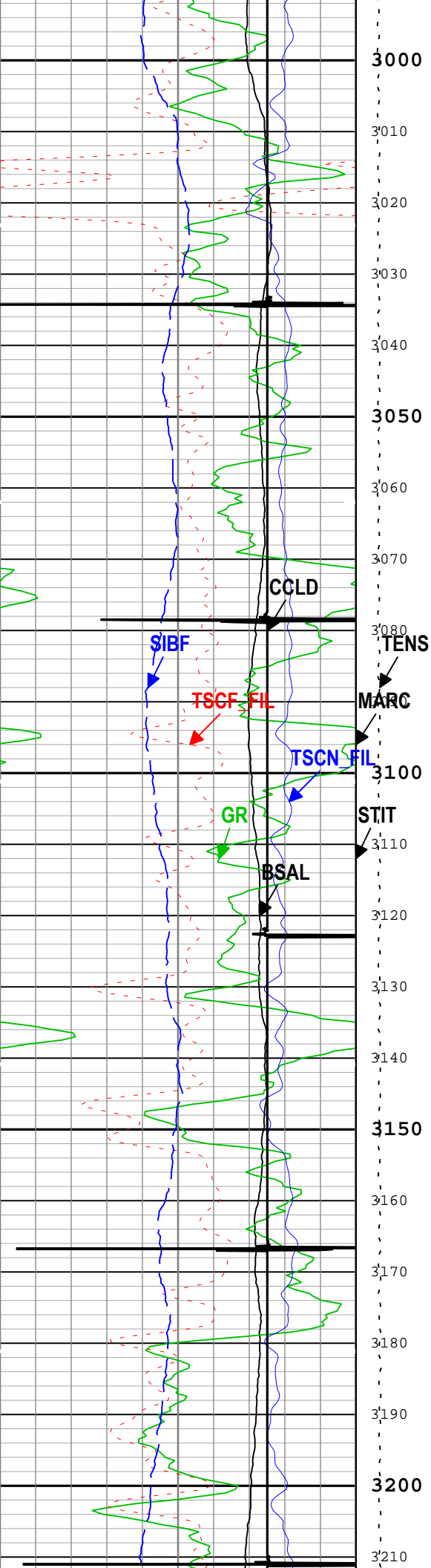
ICV - Integrated Cement Volume every 100.00 (ft3)

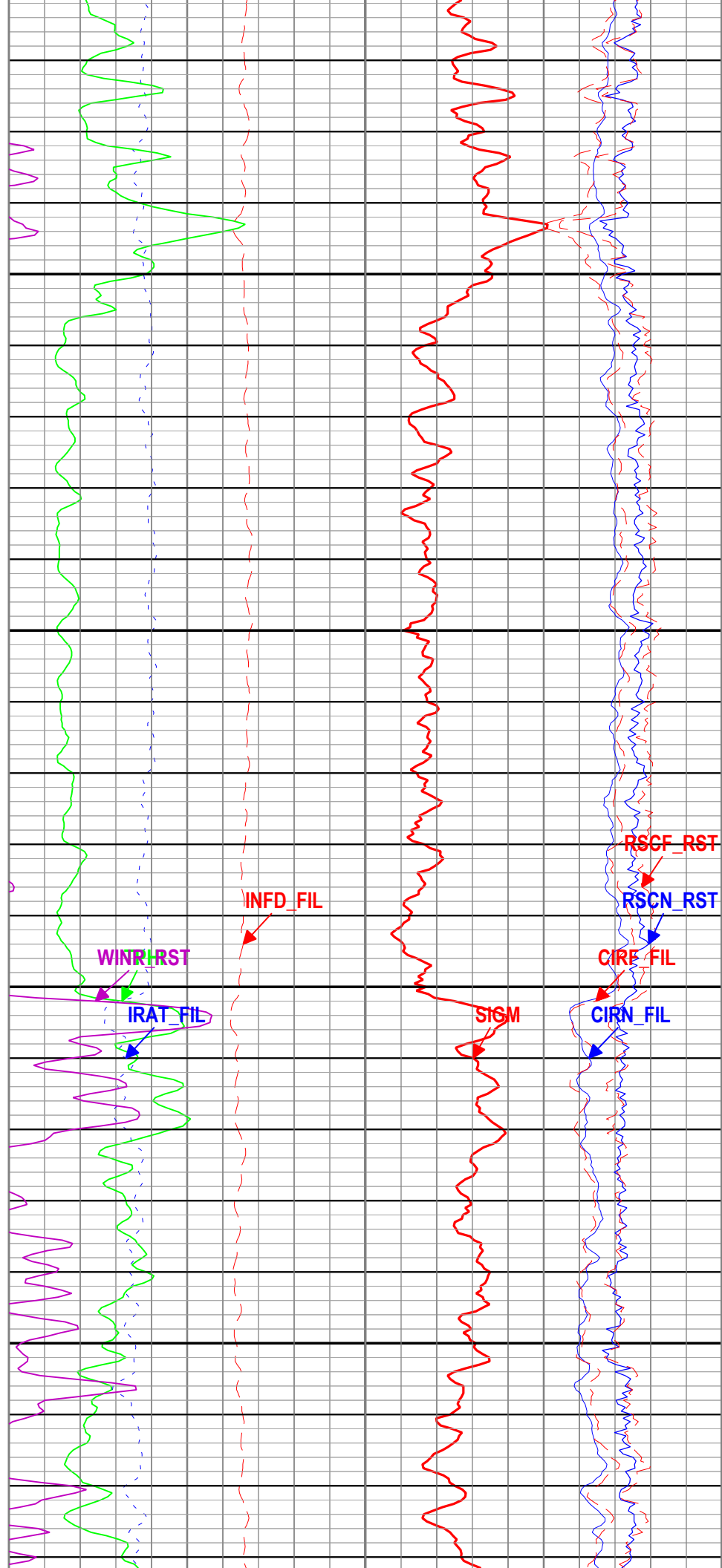
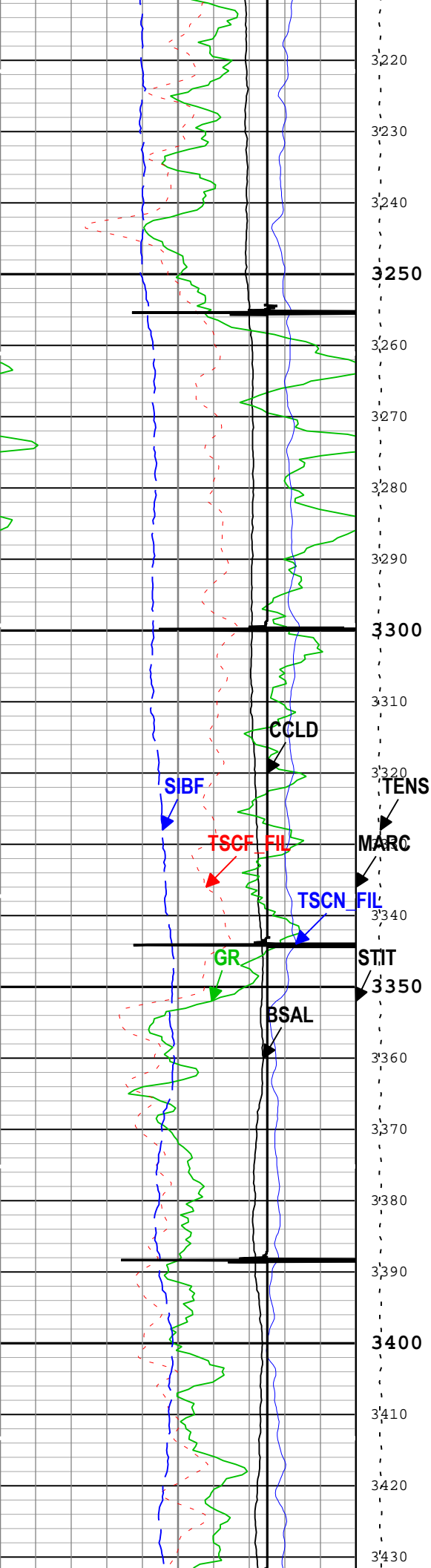
Stuck Tool Indicator, Total (STIT)			0	ft	50
Borehole Salinity (BSAL) RST-C			Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C		
450	ppk	-50	2.5		
Gamma Ray (GR) PSTP-B			Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C		
0	gAPI	150	5		
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C			Inelastic Ratio Filtered (IRAT_FIL) RST-C		
30000	1/s	0	0.75	0	
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C			Thermal Decay Porosity (TPHI) RST-C		
12000	1/s	0	0.6	0	
Sigma Borehole Fluid (SIBF) RST-C			Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C		
100	cu	0	10000		
CCL Discriminated Amplitude (CCLD) PSTP-B			Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
-3	V	1	60		
			Weighted Inelastic Ratio (WINR_RST) RST-C		
			0		

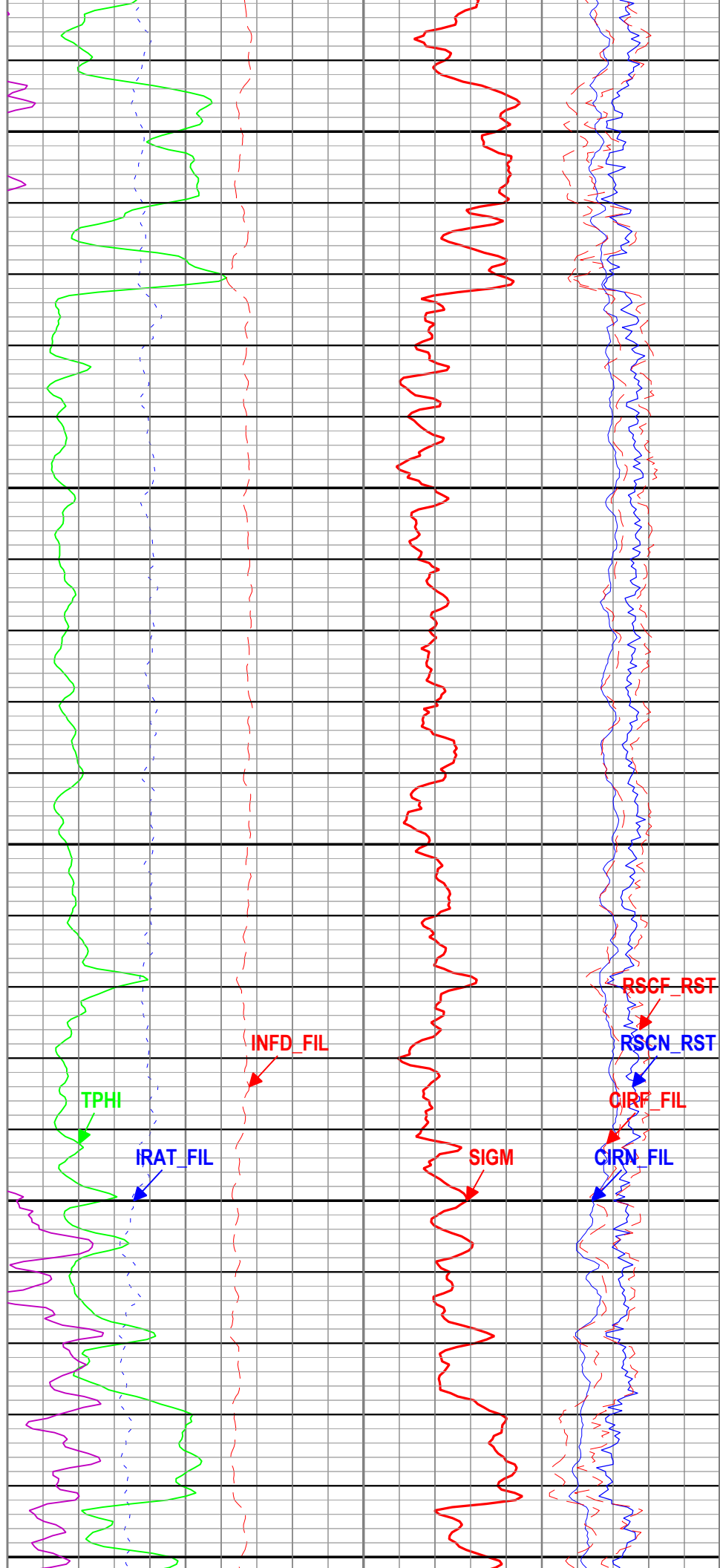
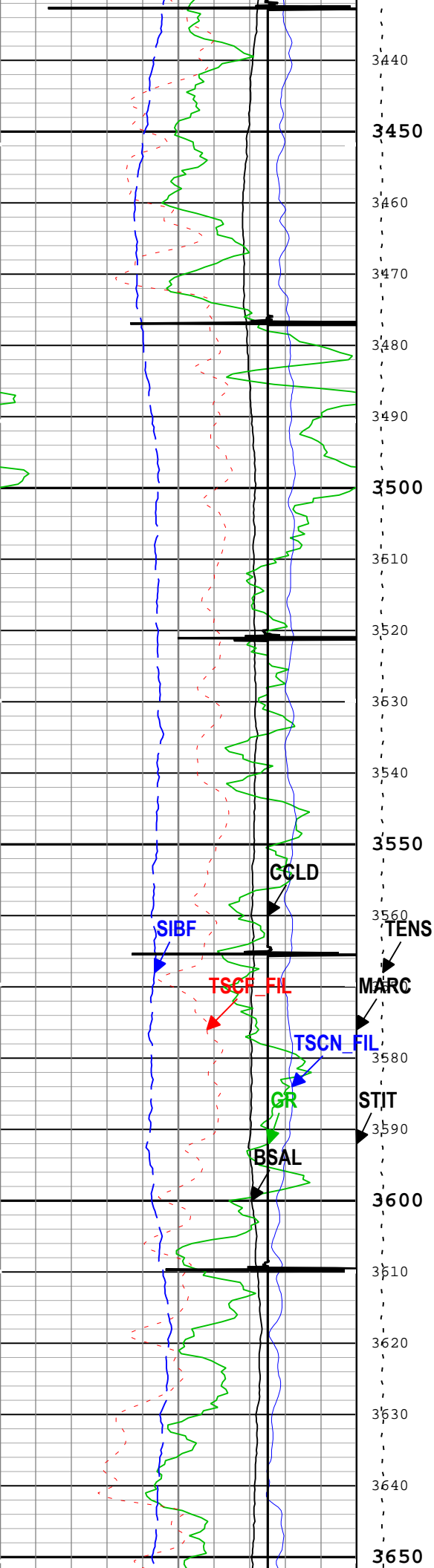


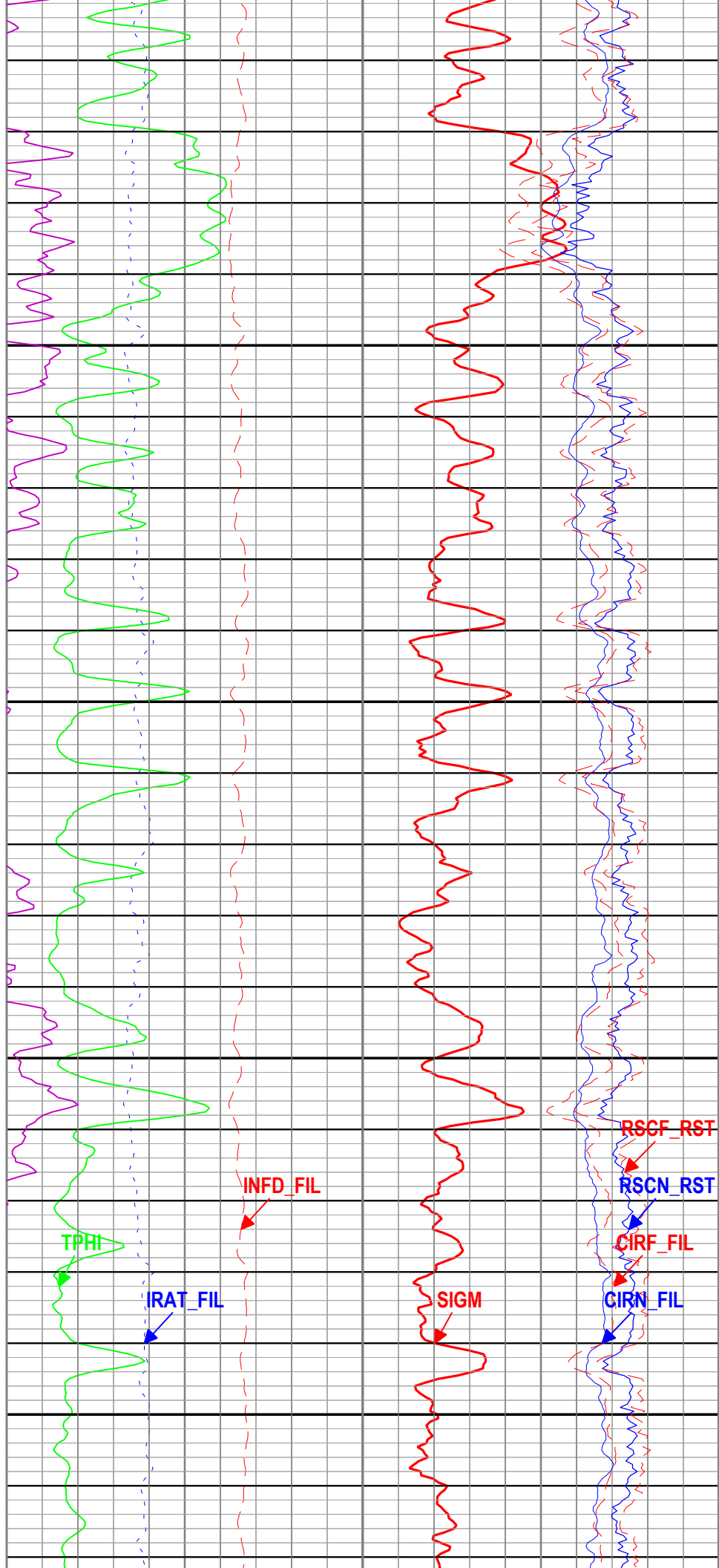
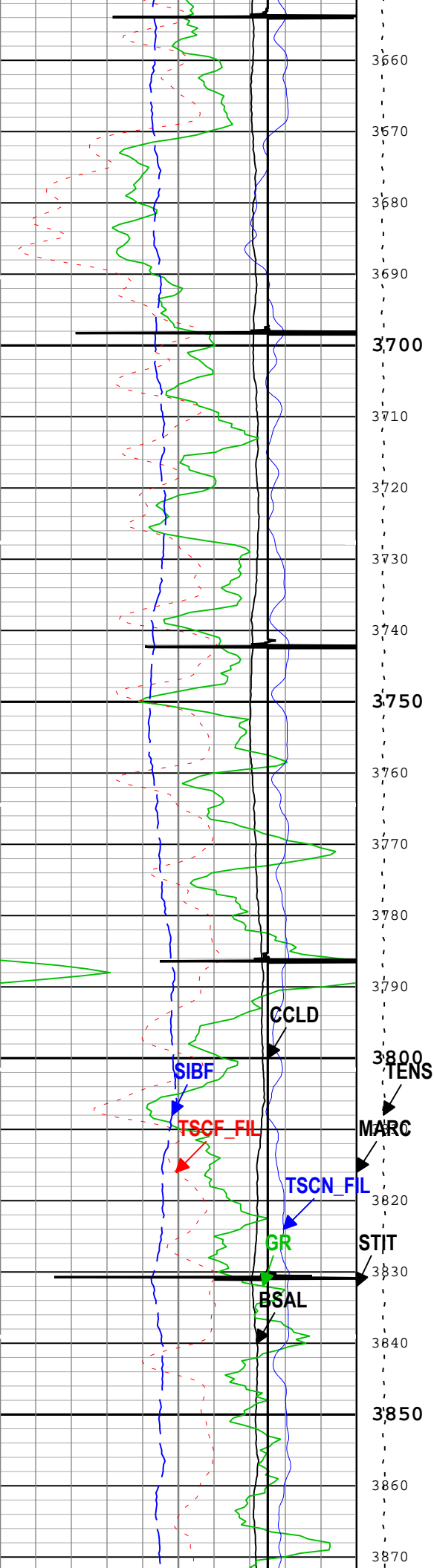


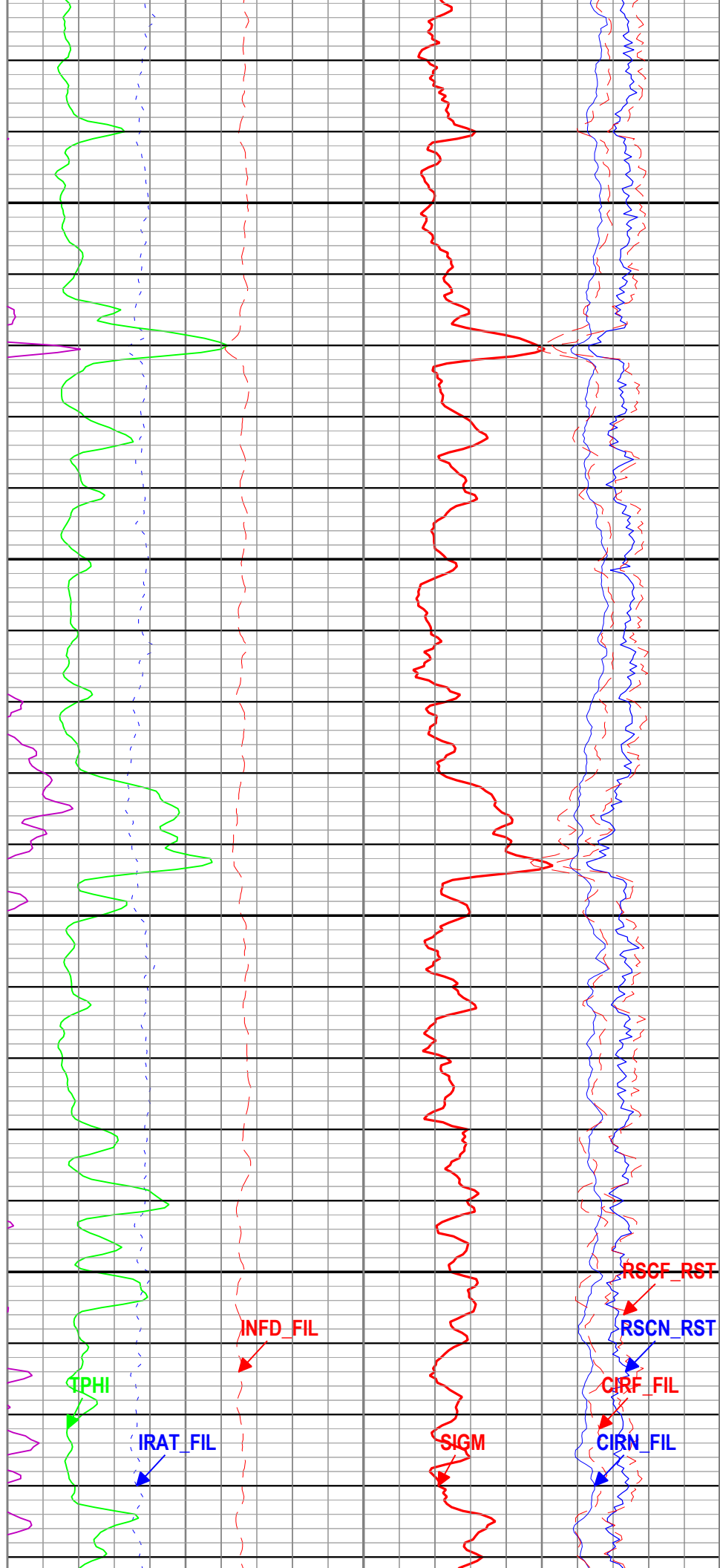
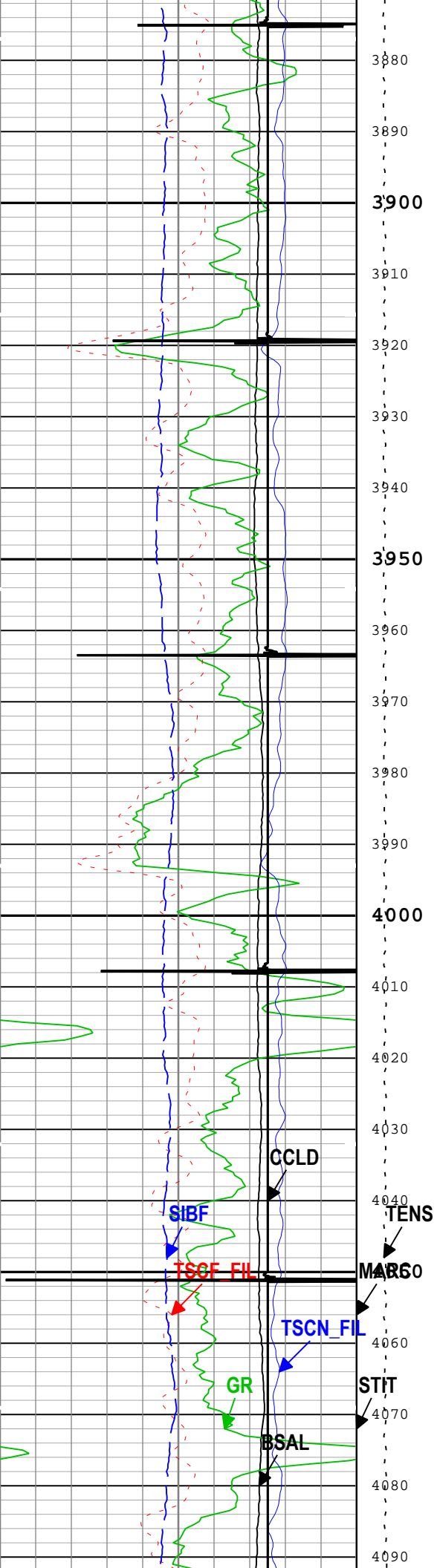


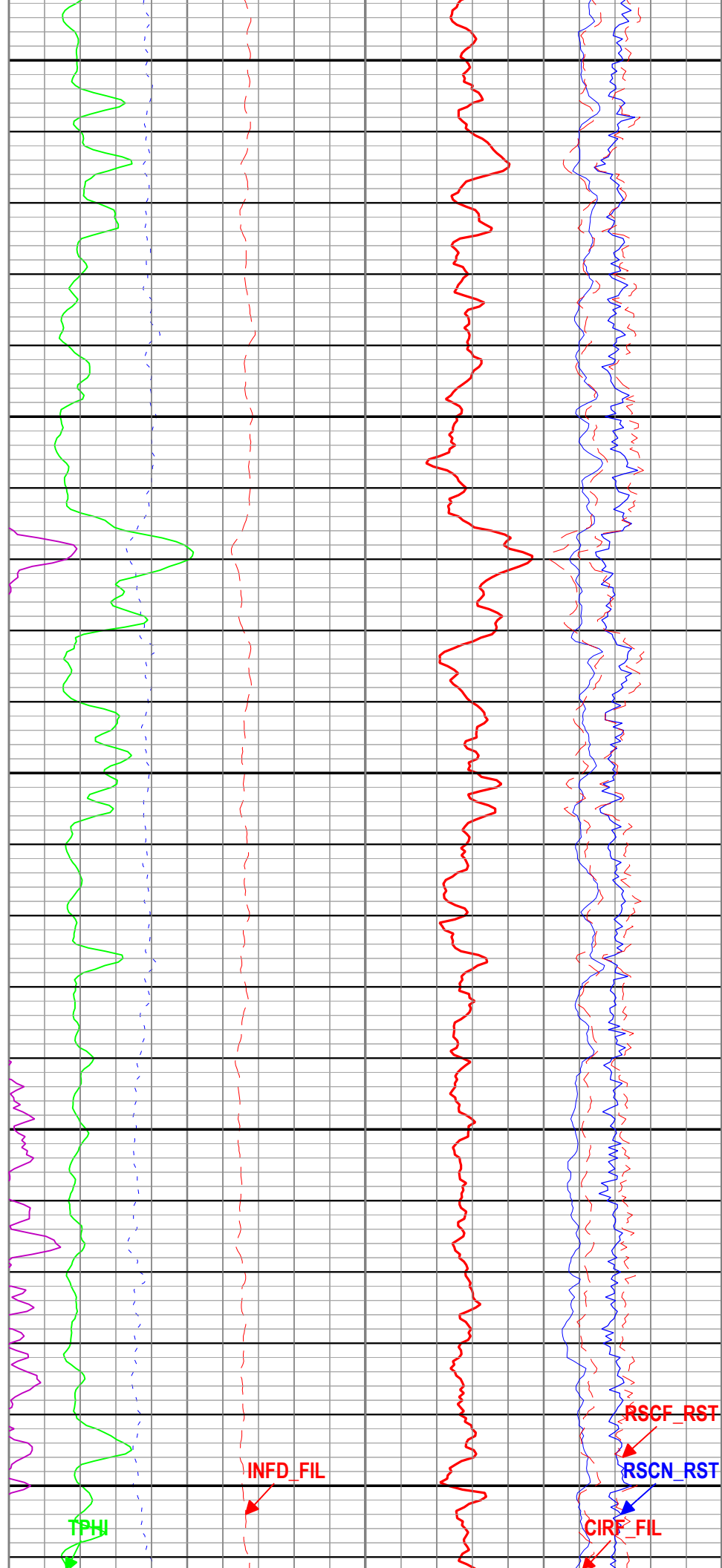
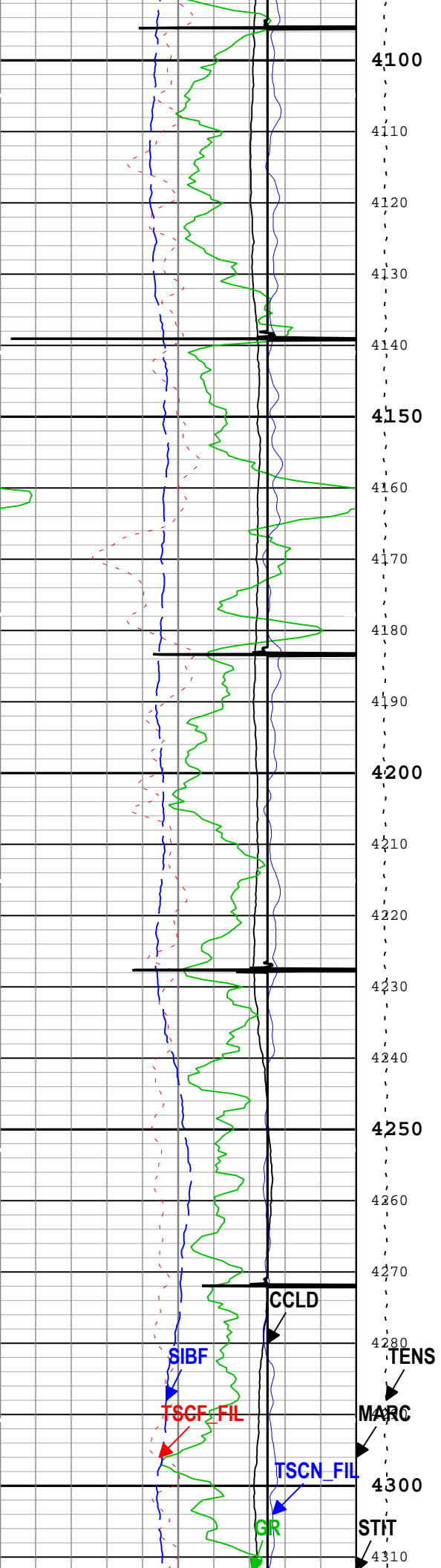


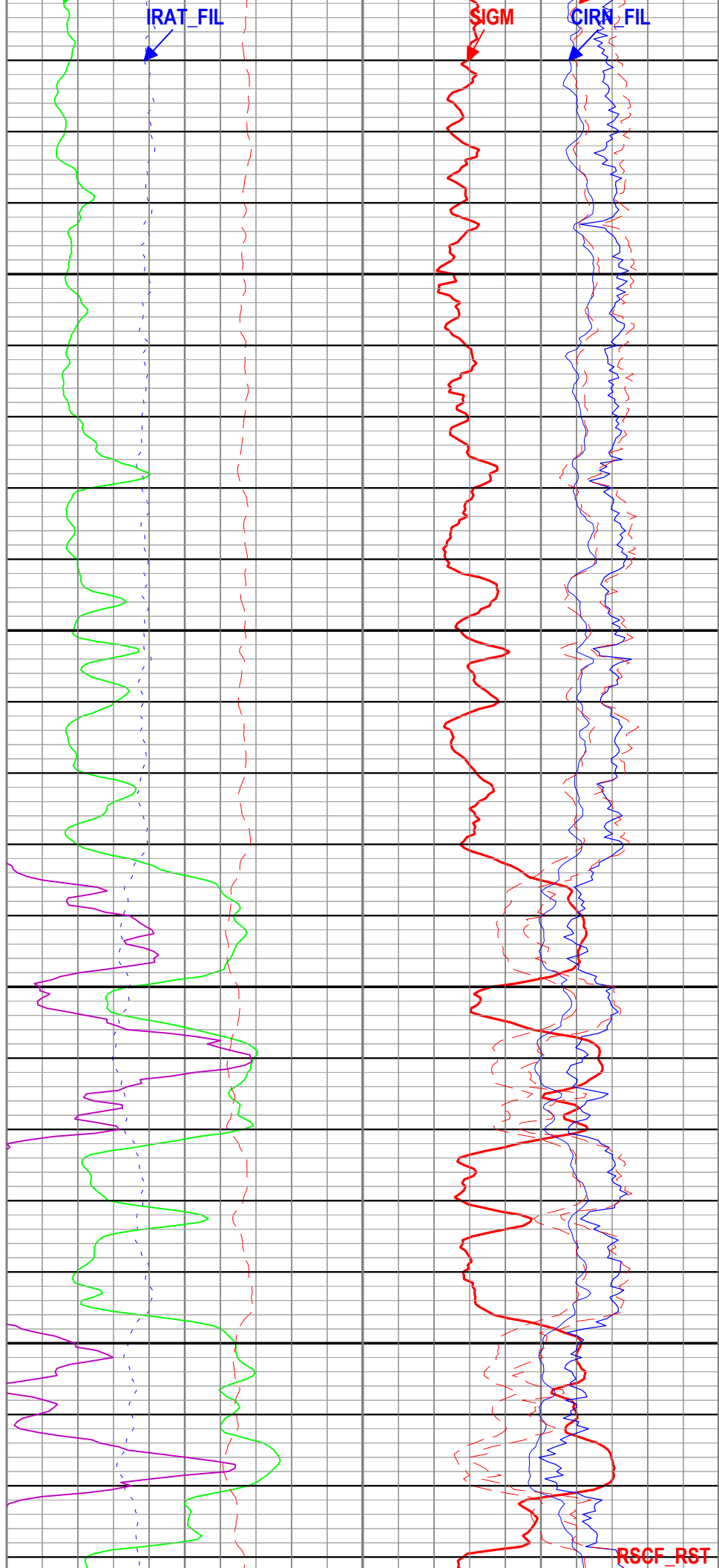
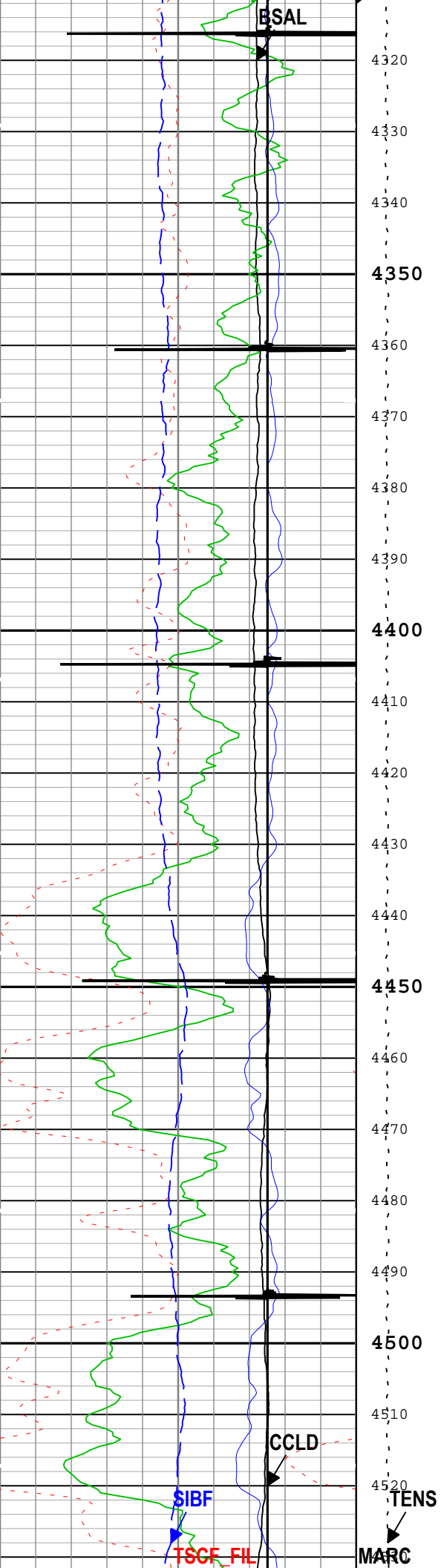


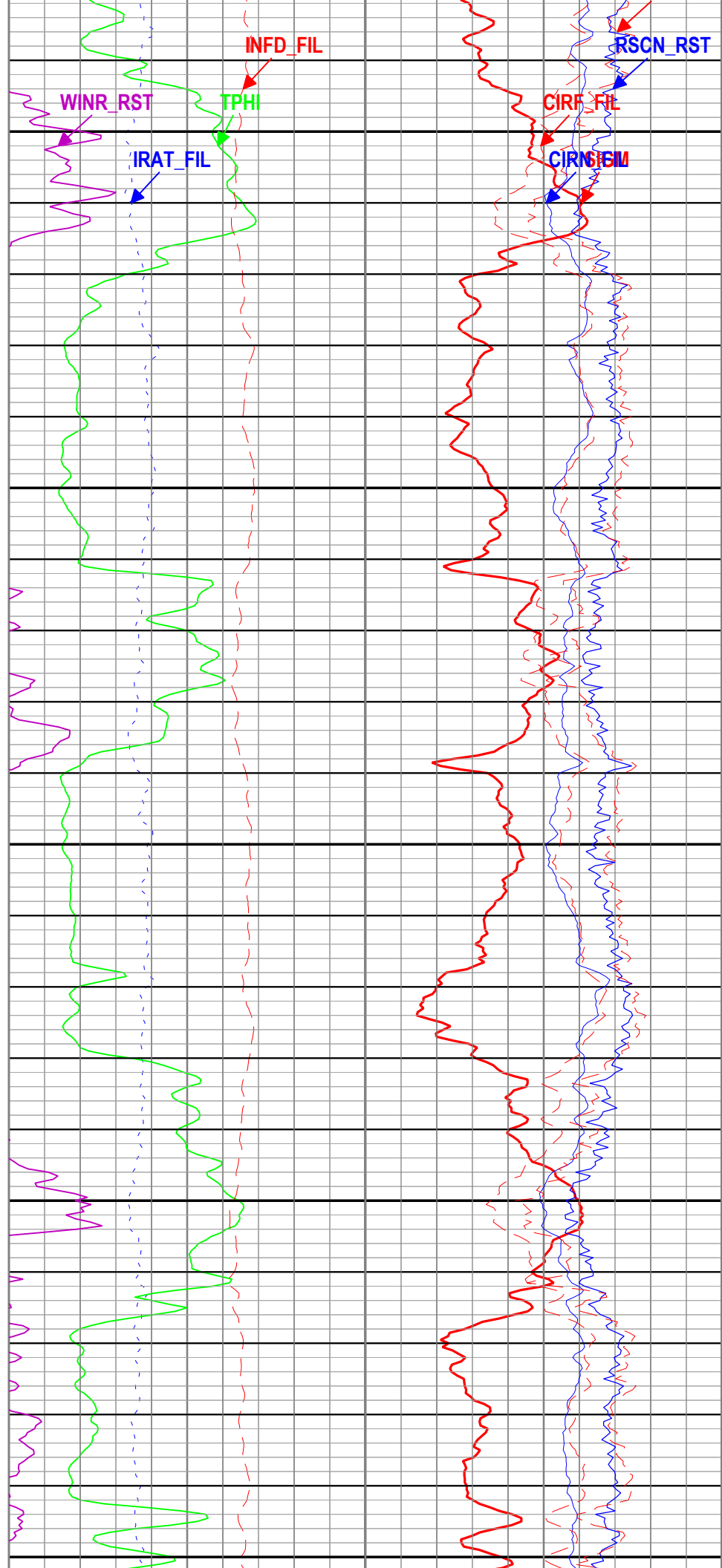
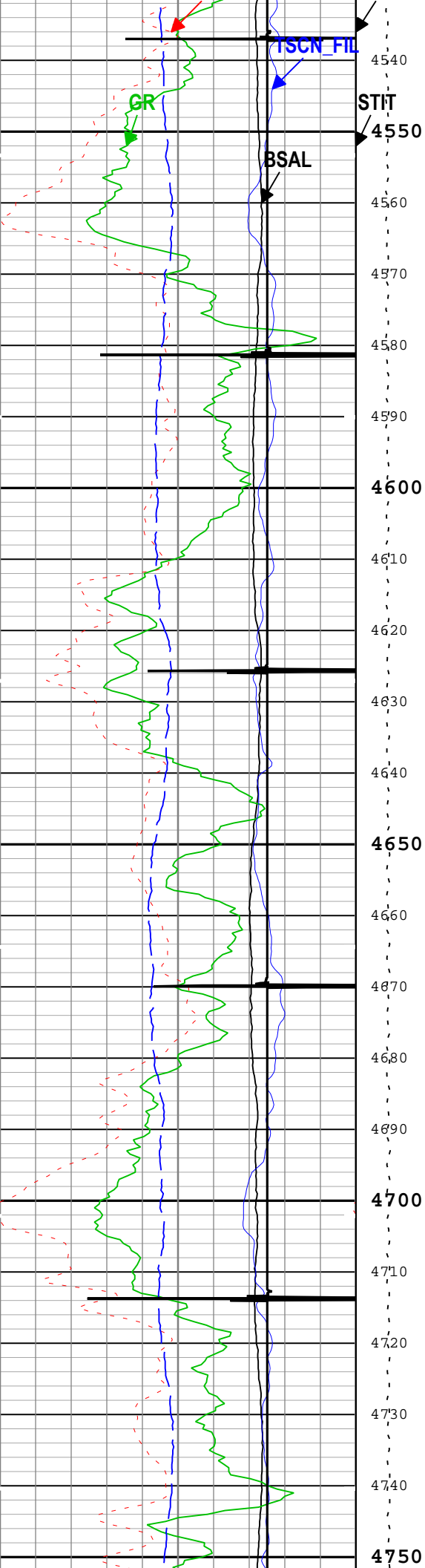


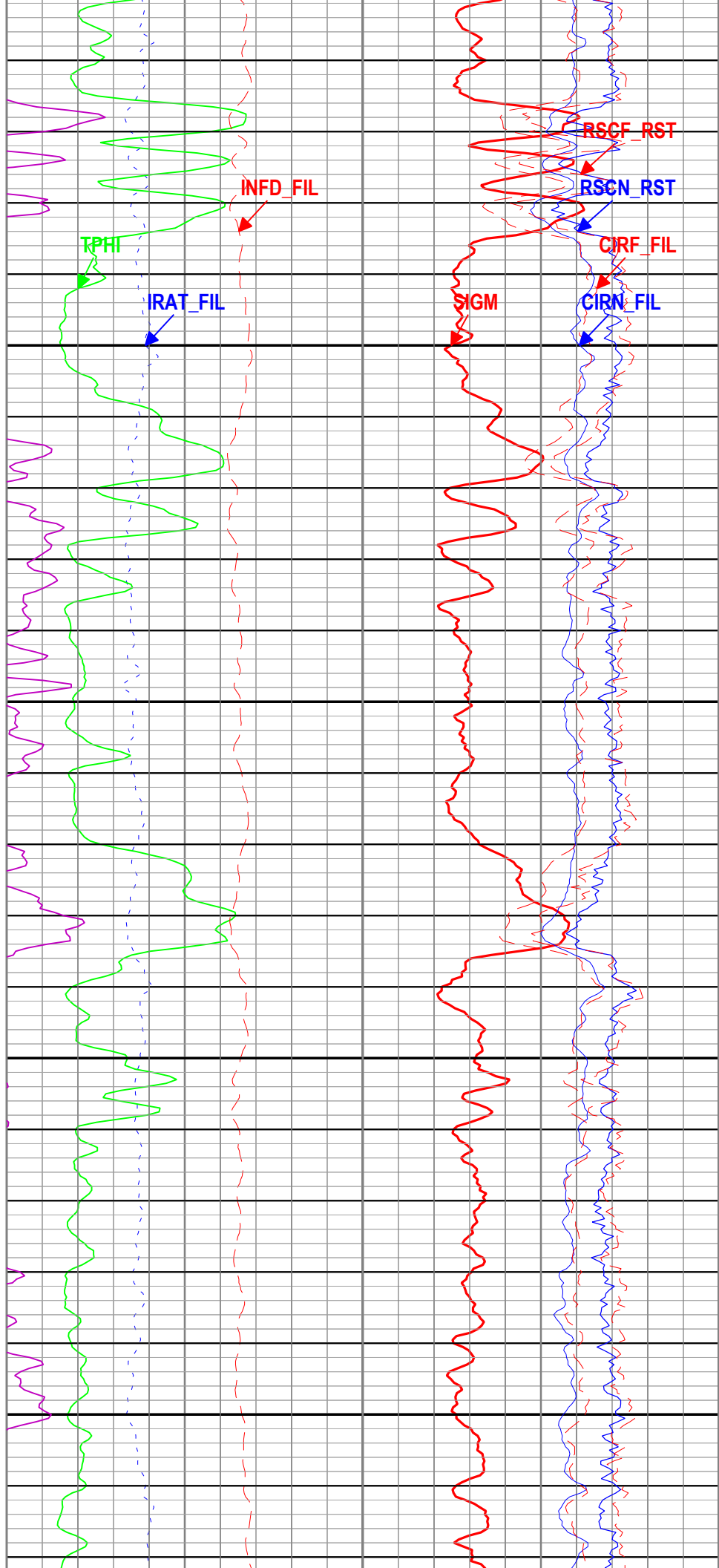
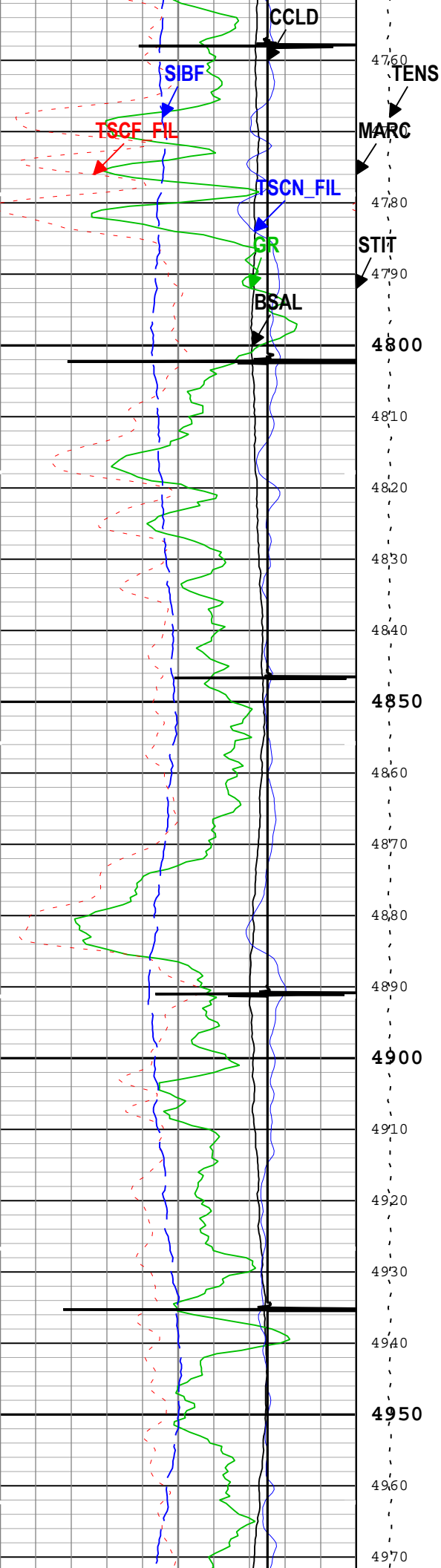


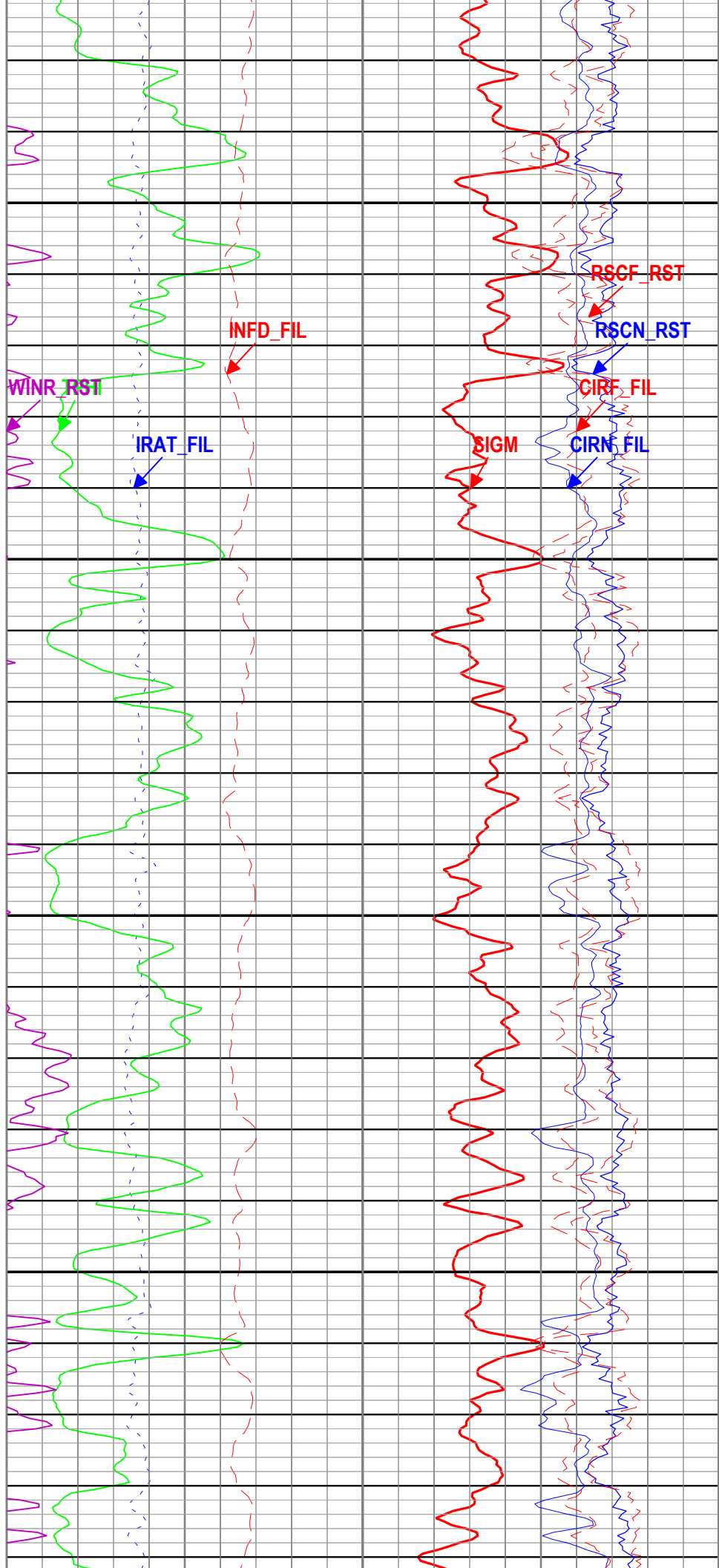
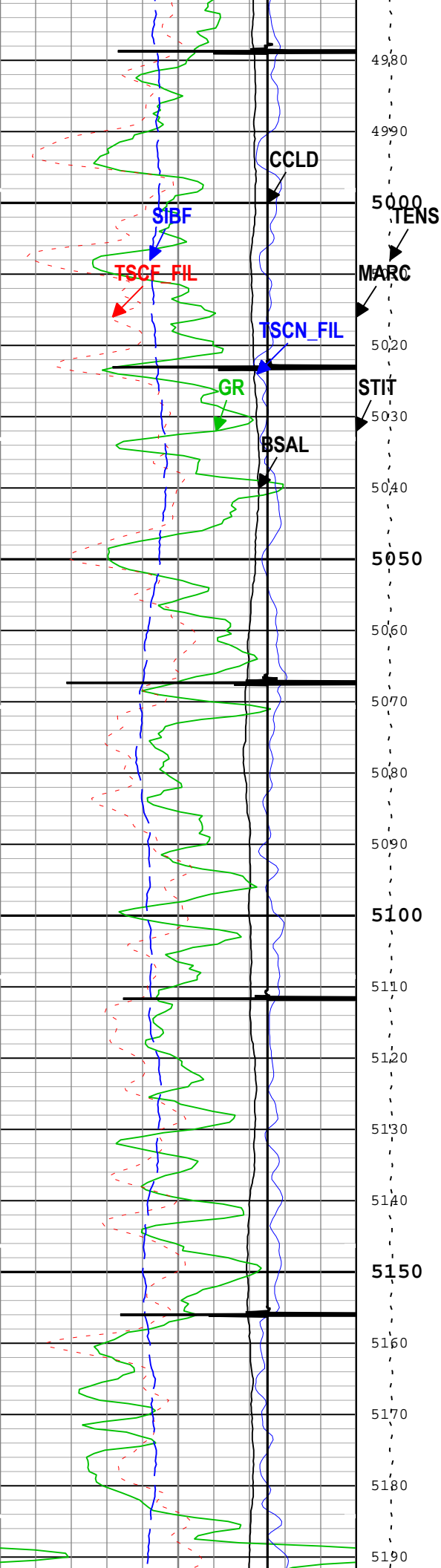


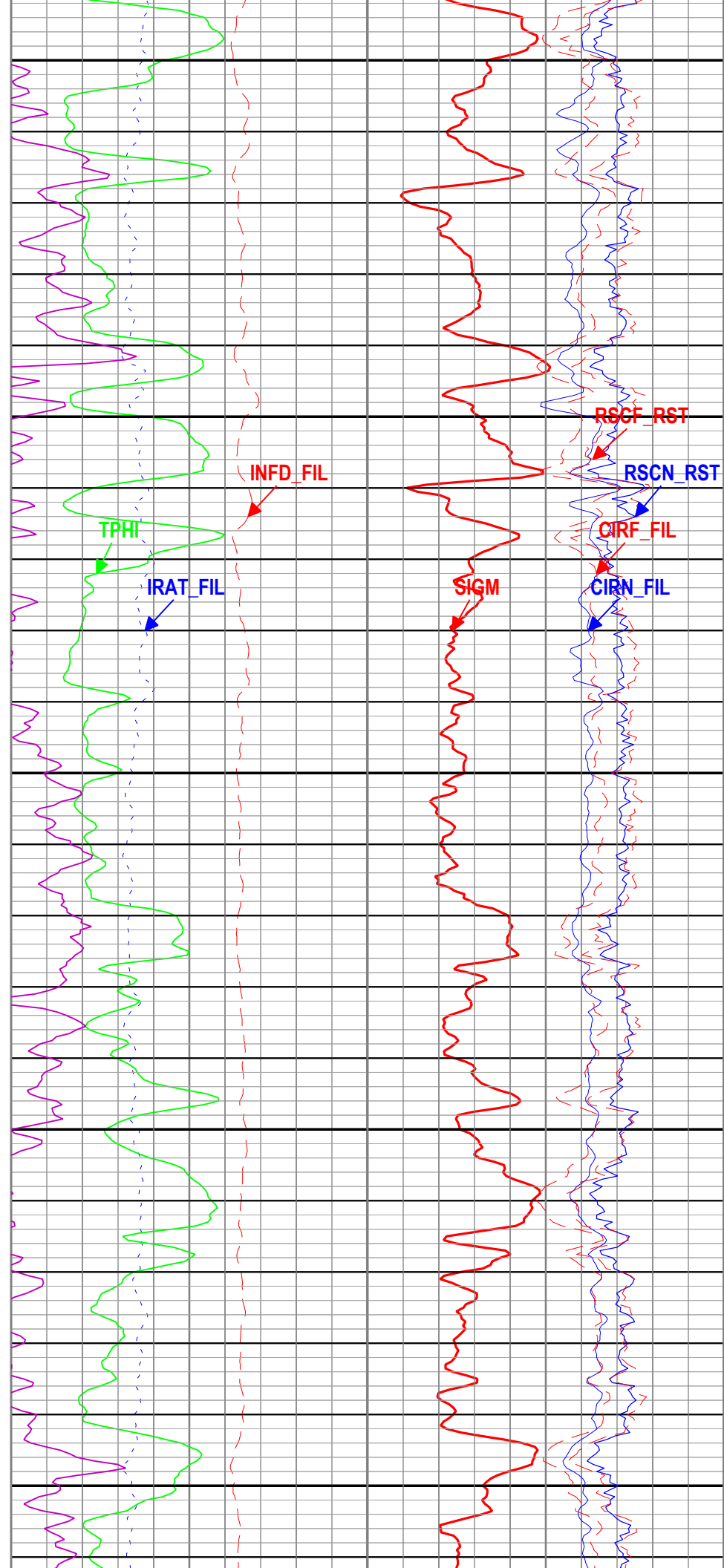
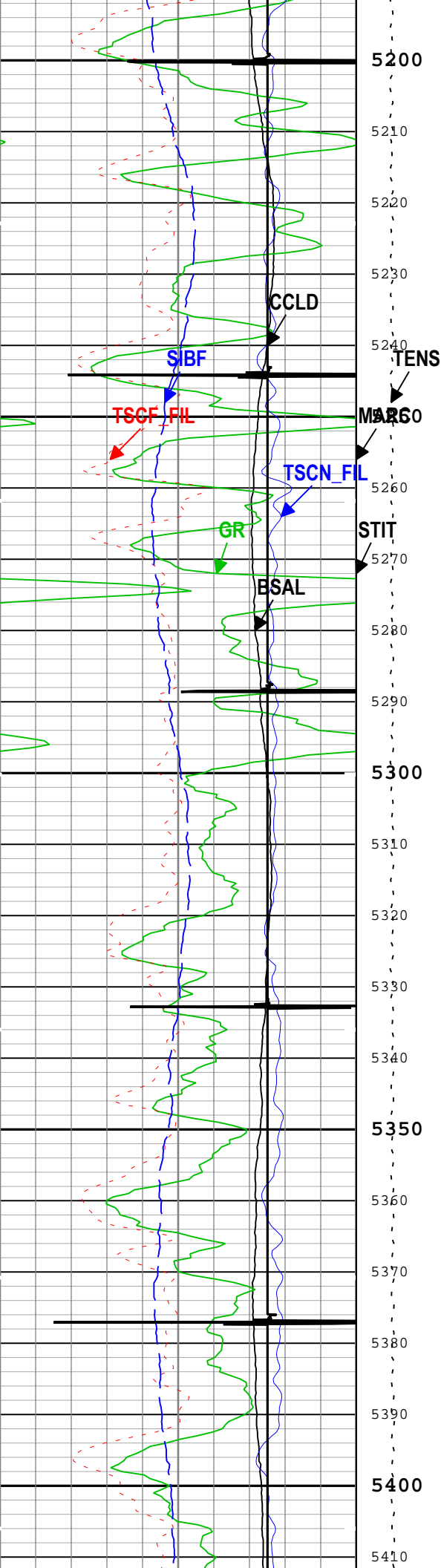


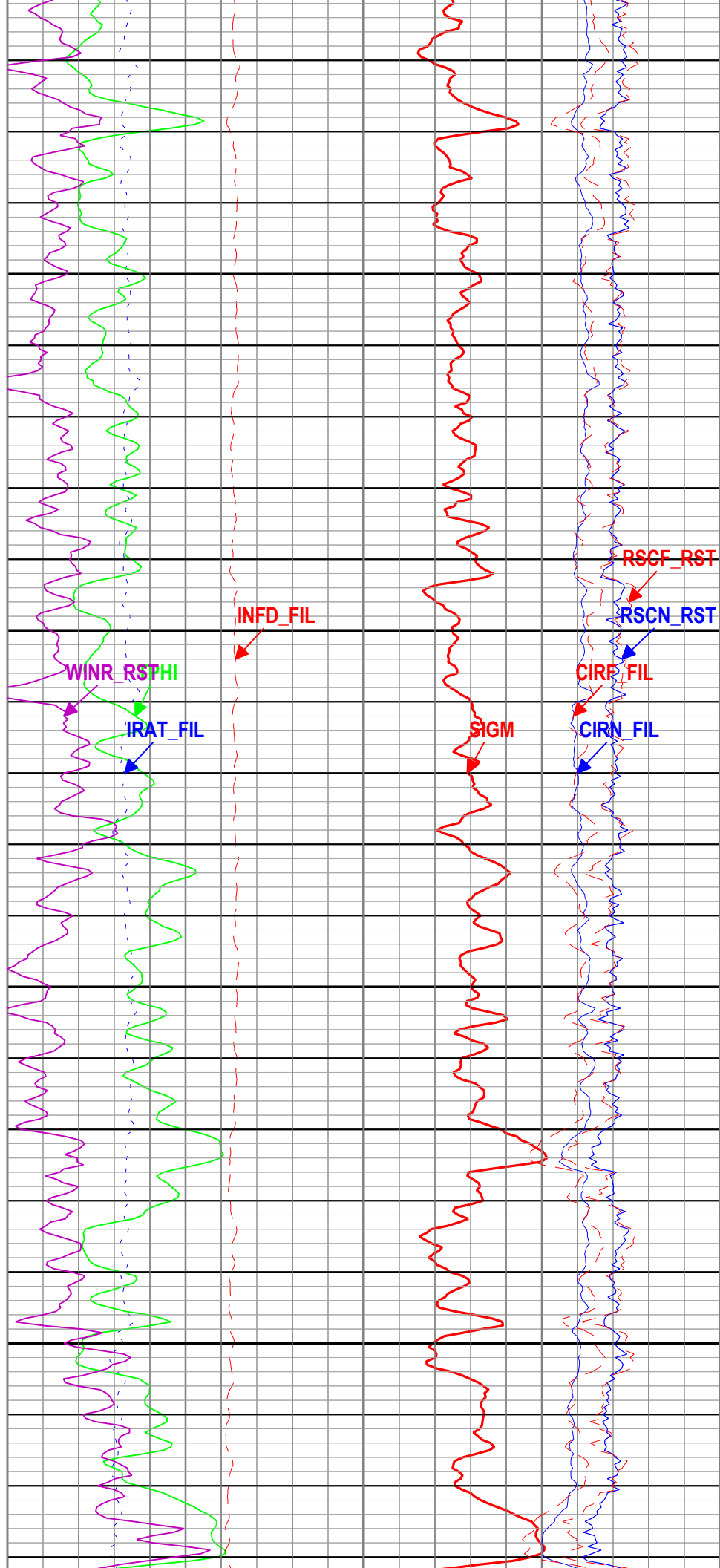
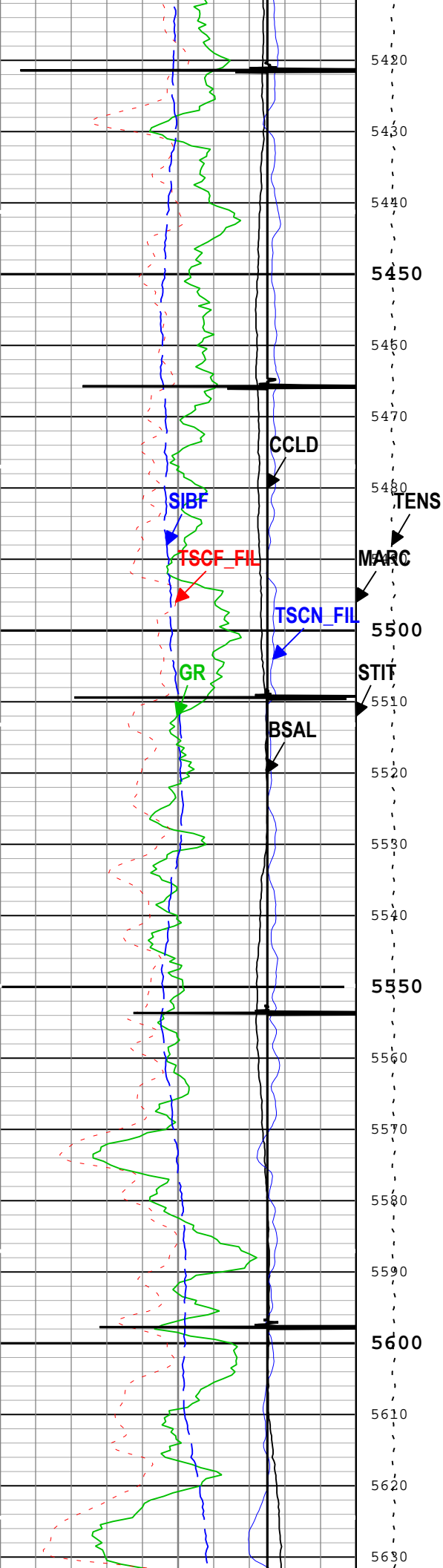


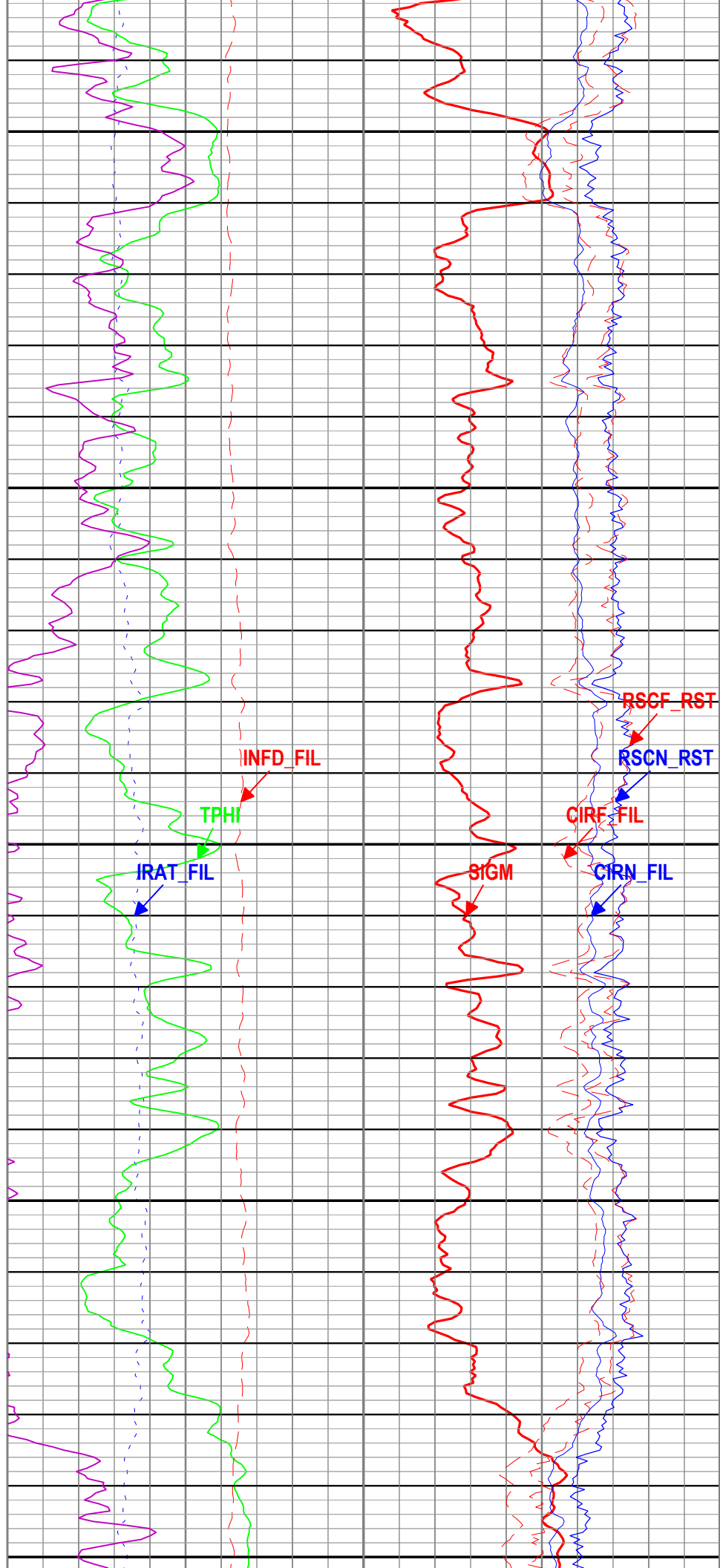
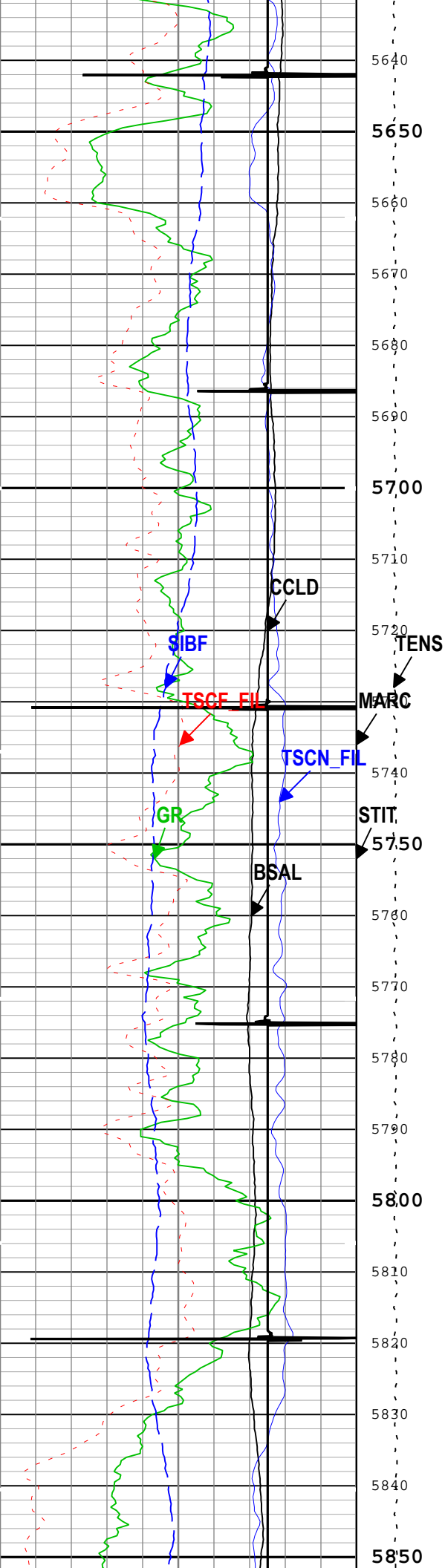


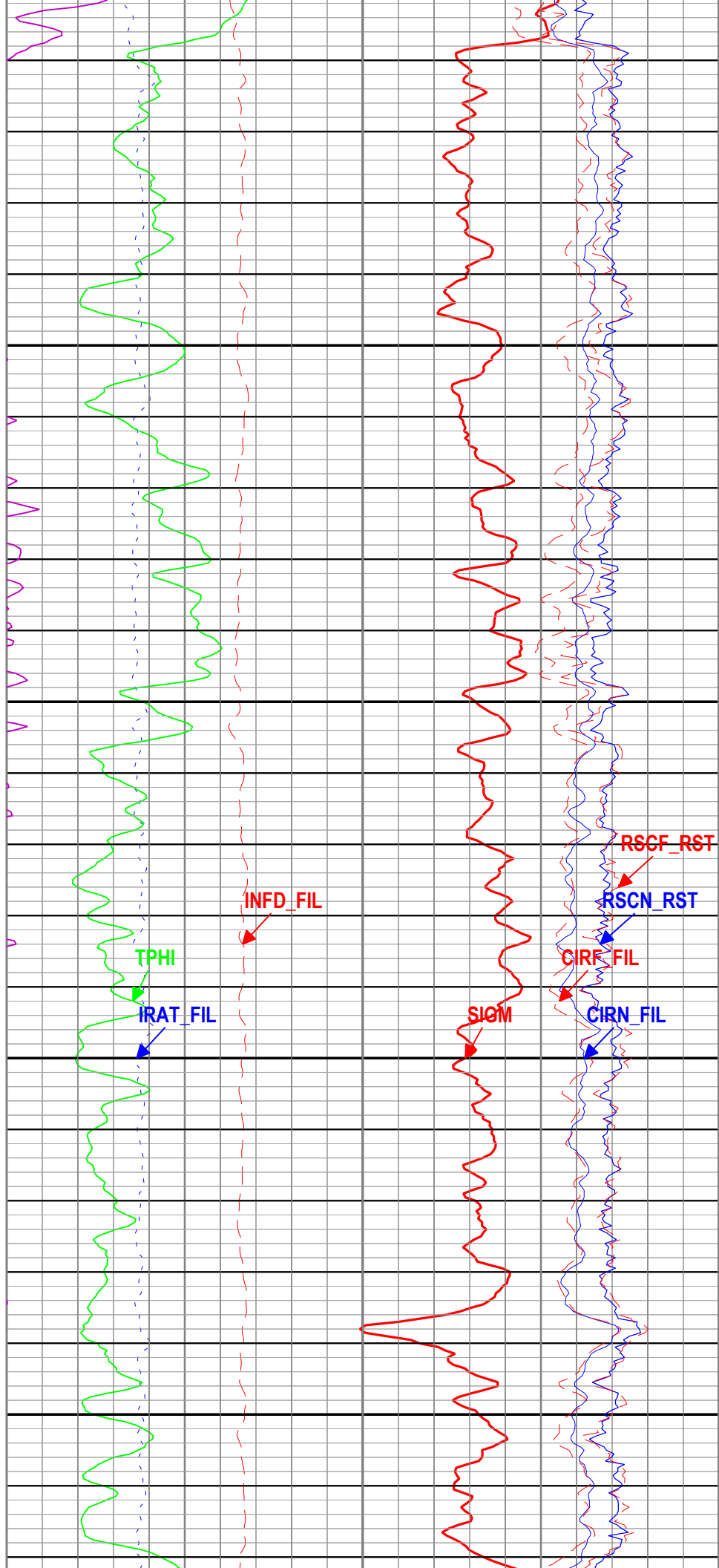
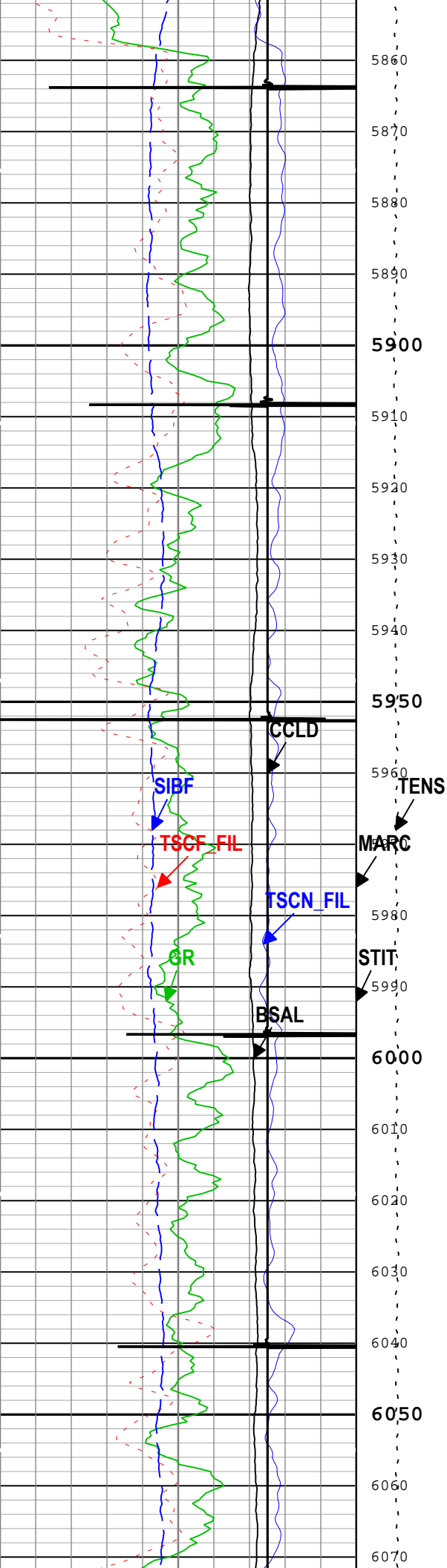


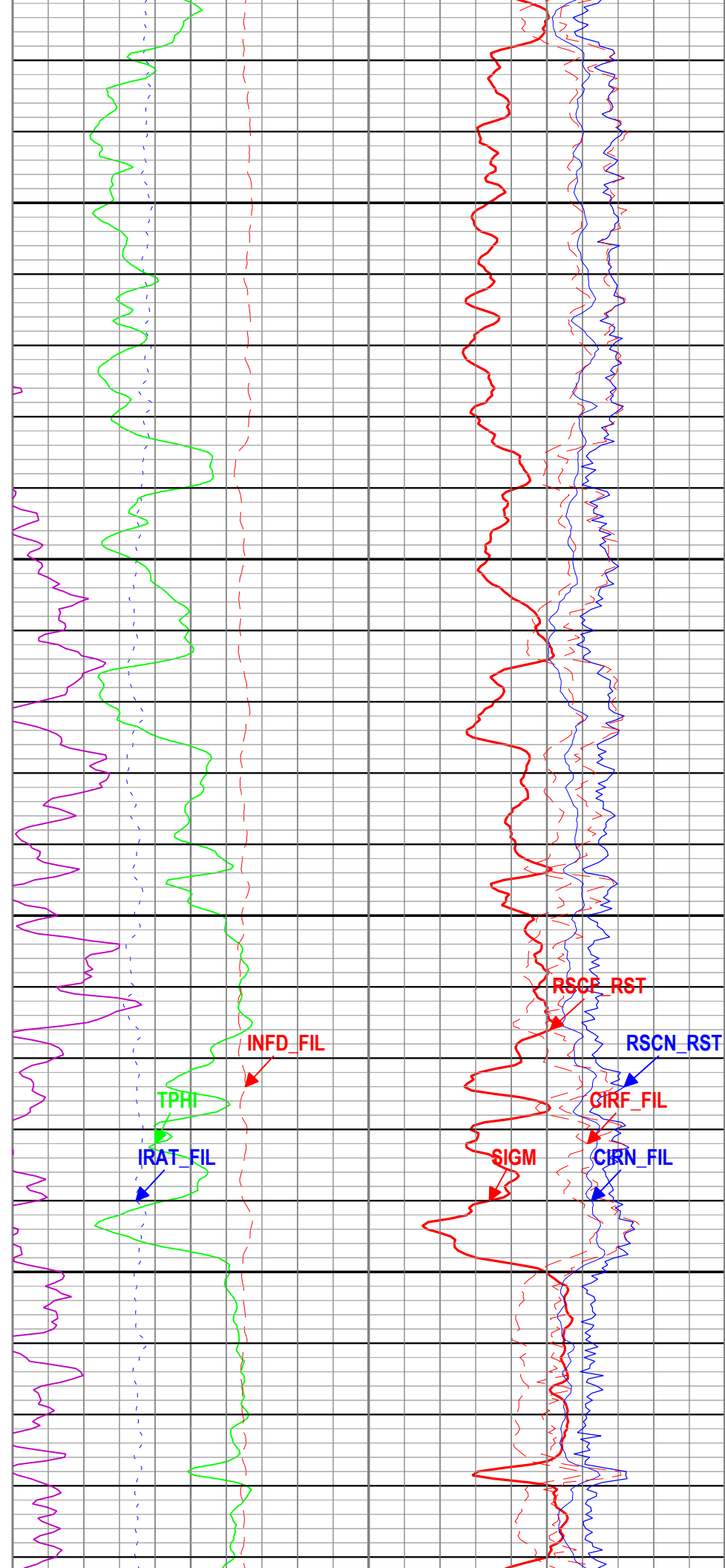
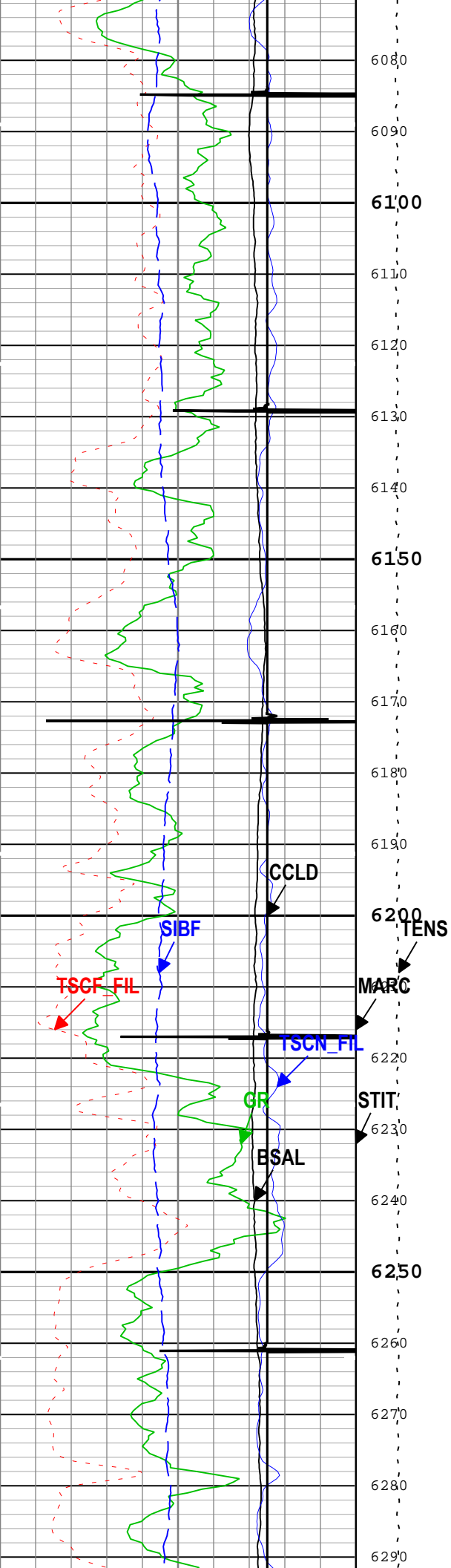


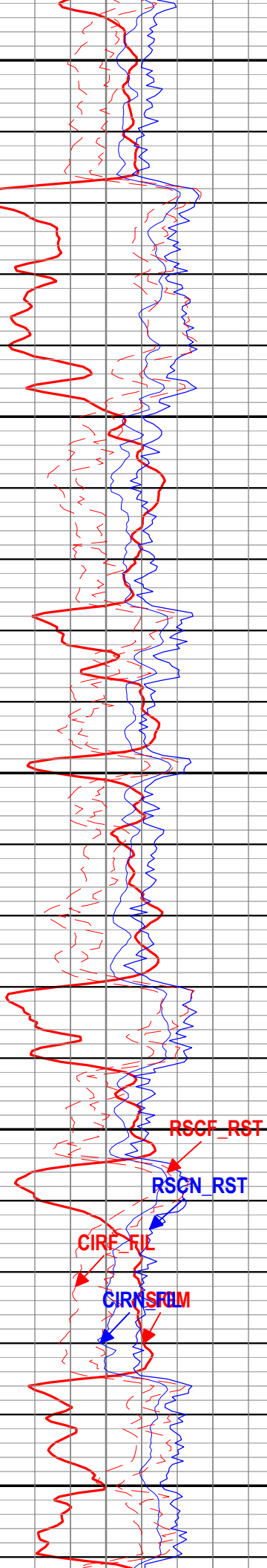
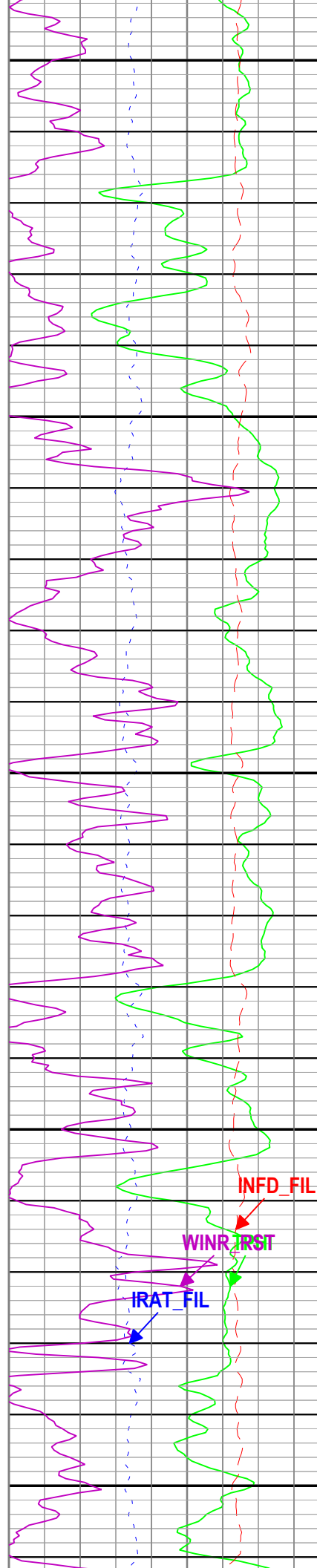
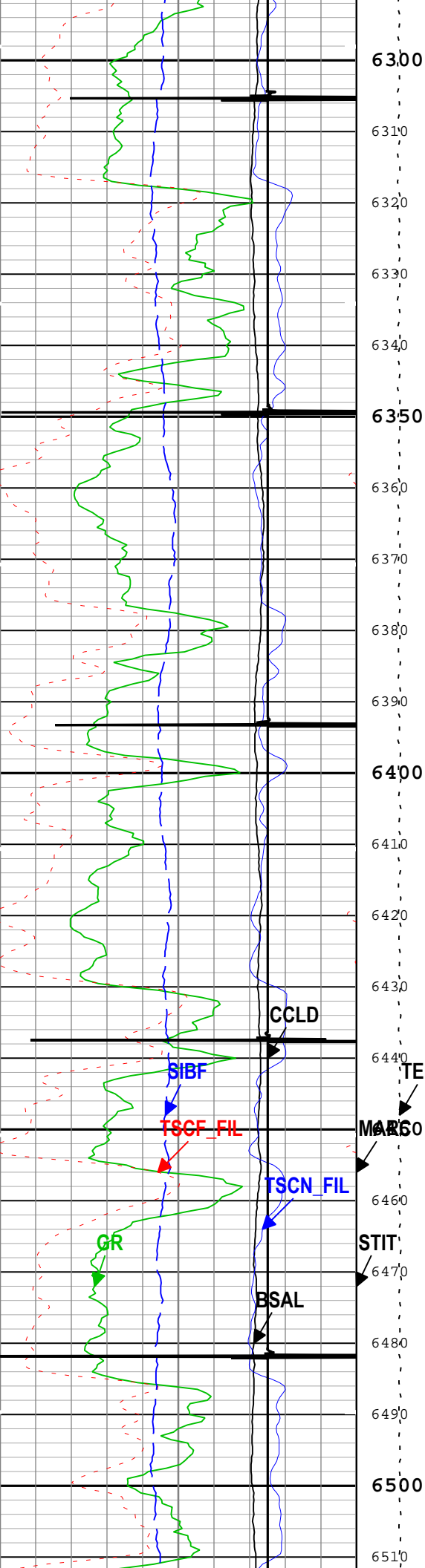


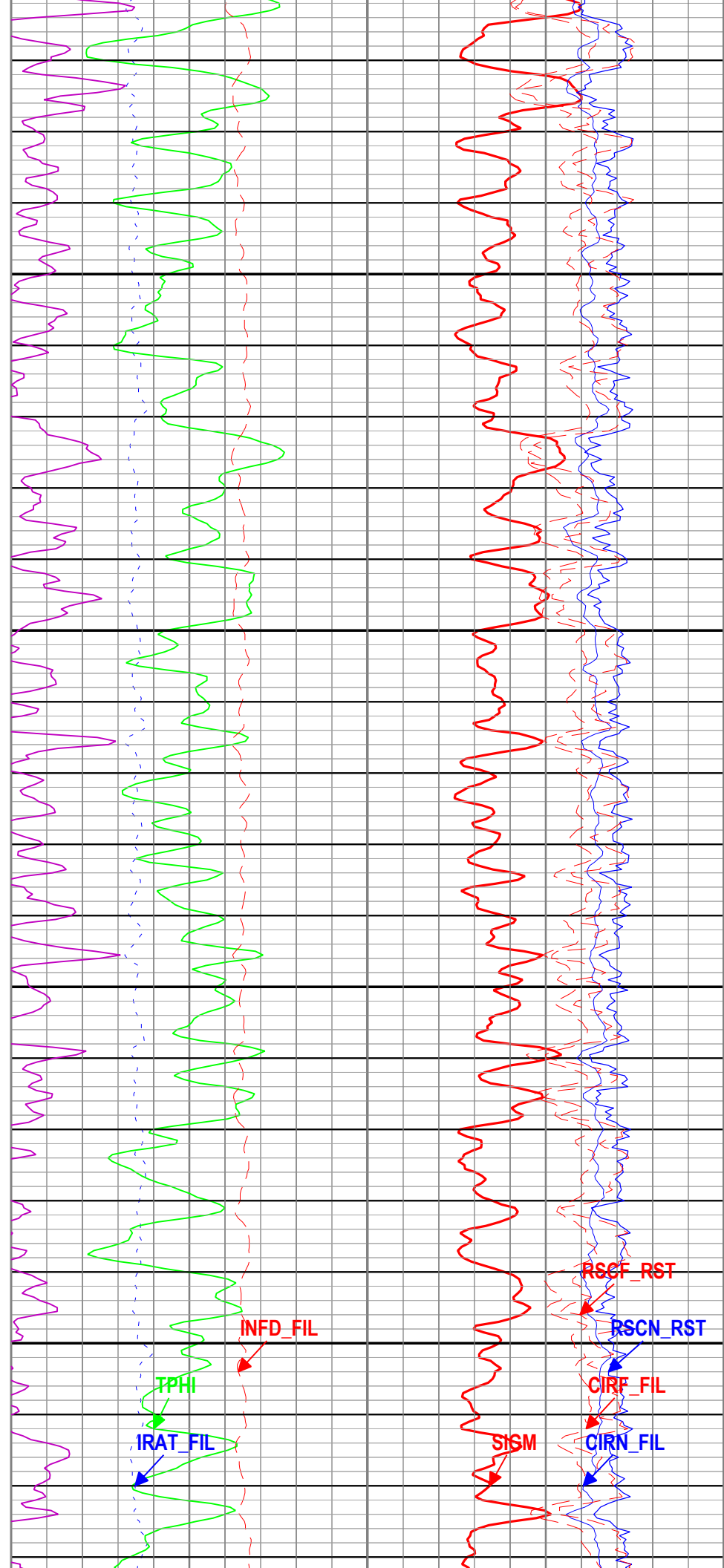
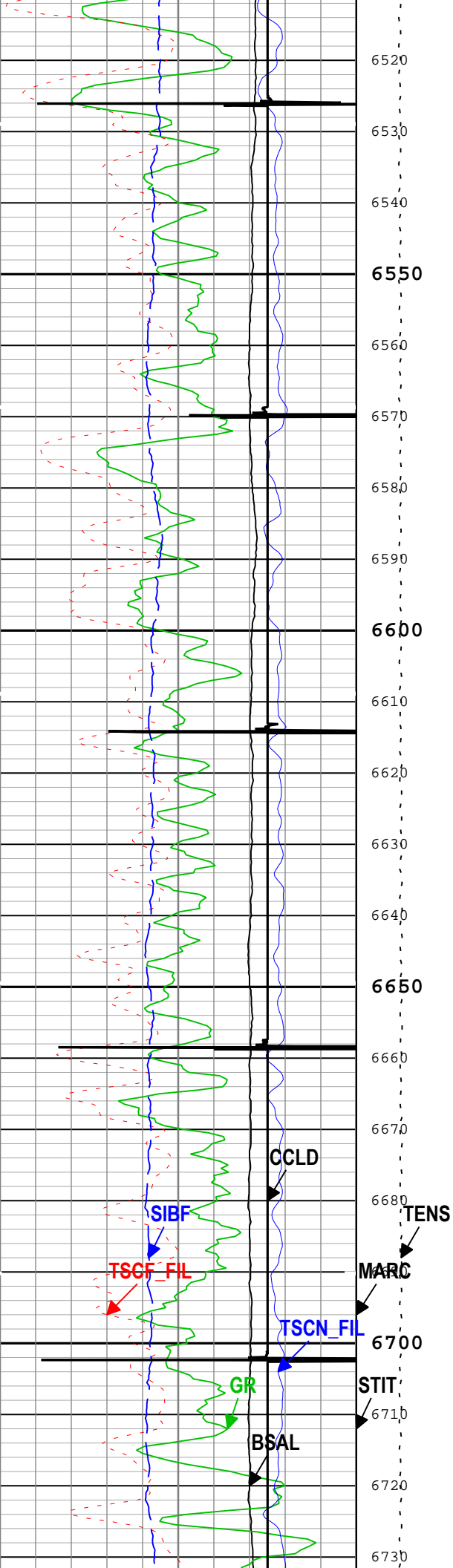


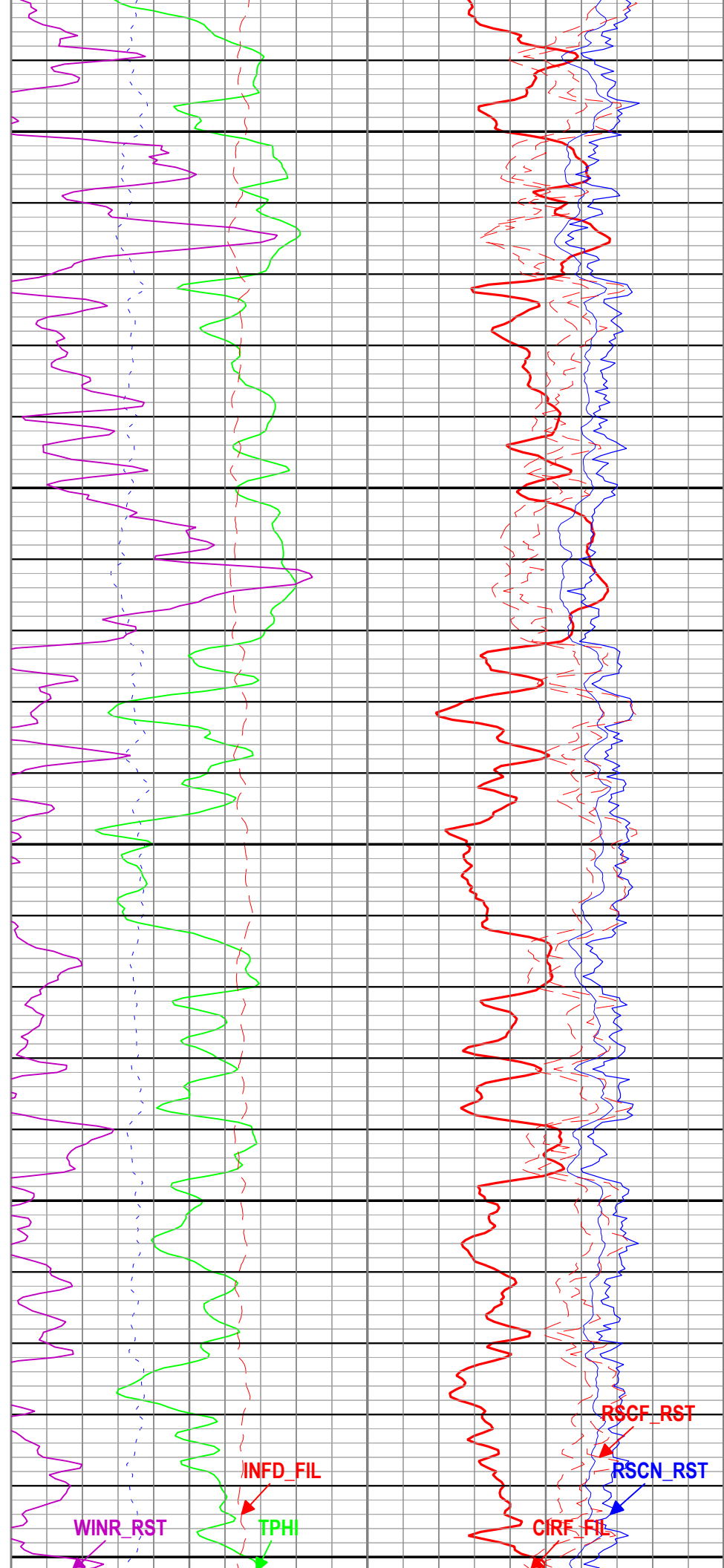
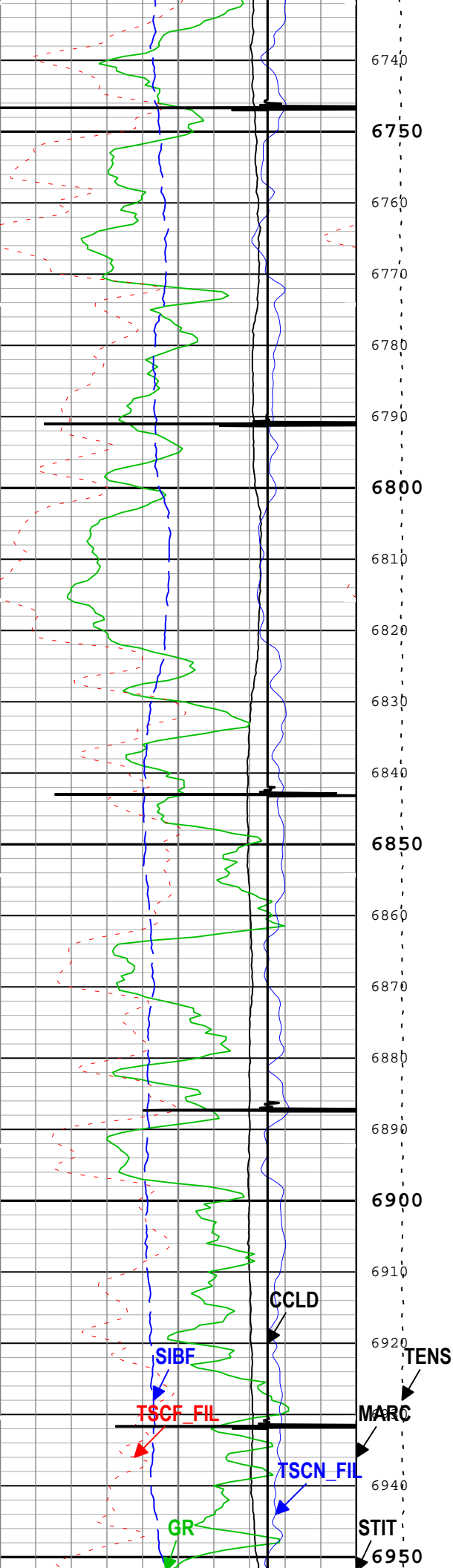


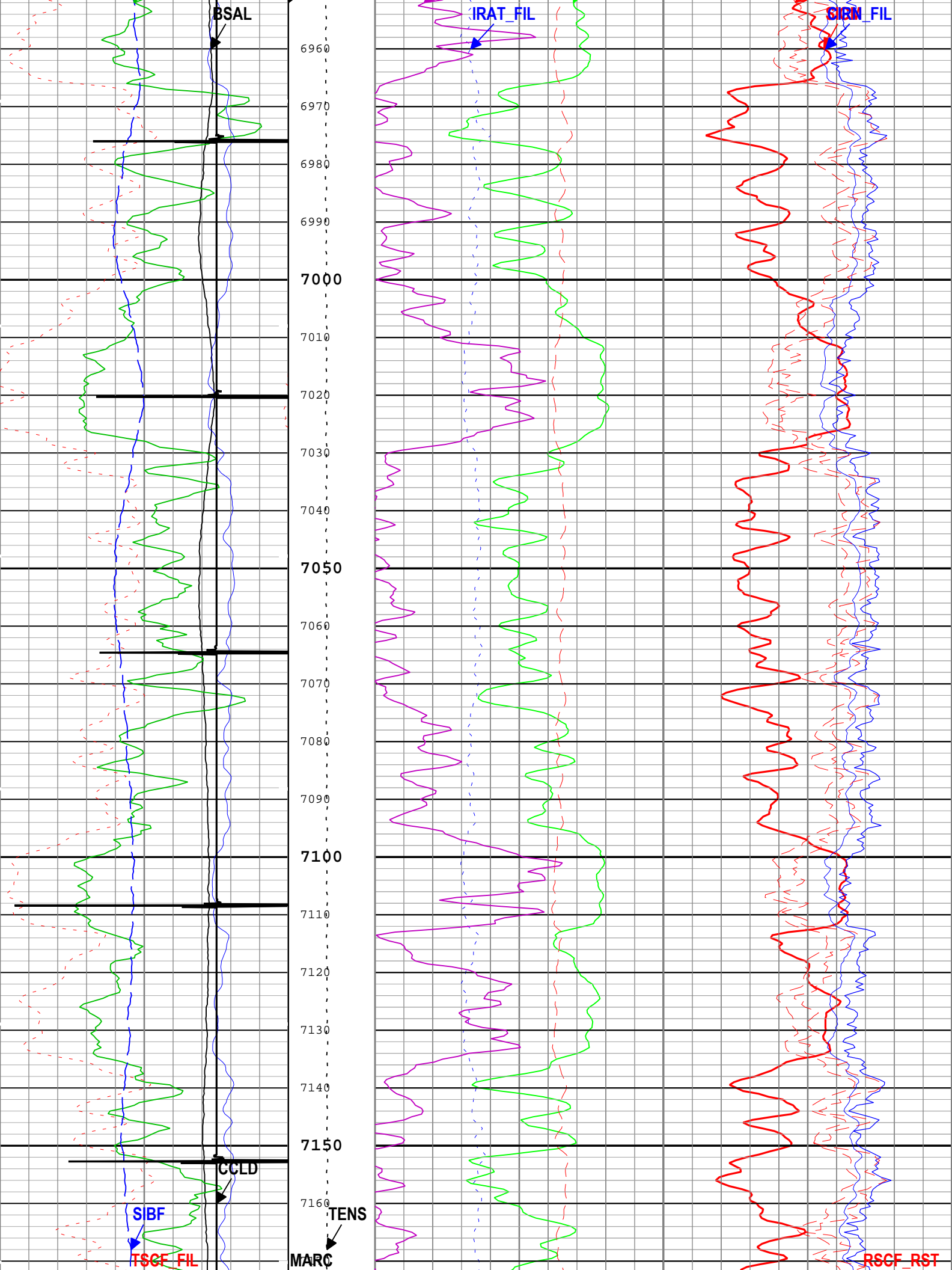


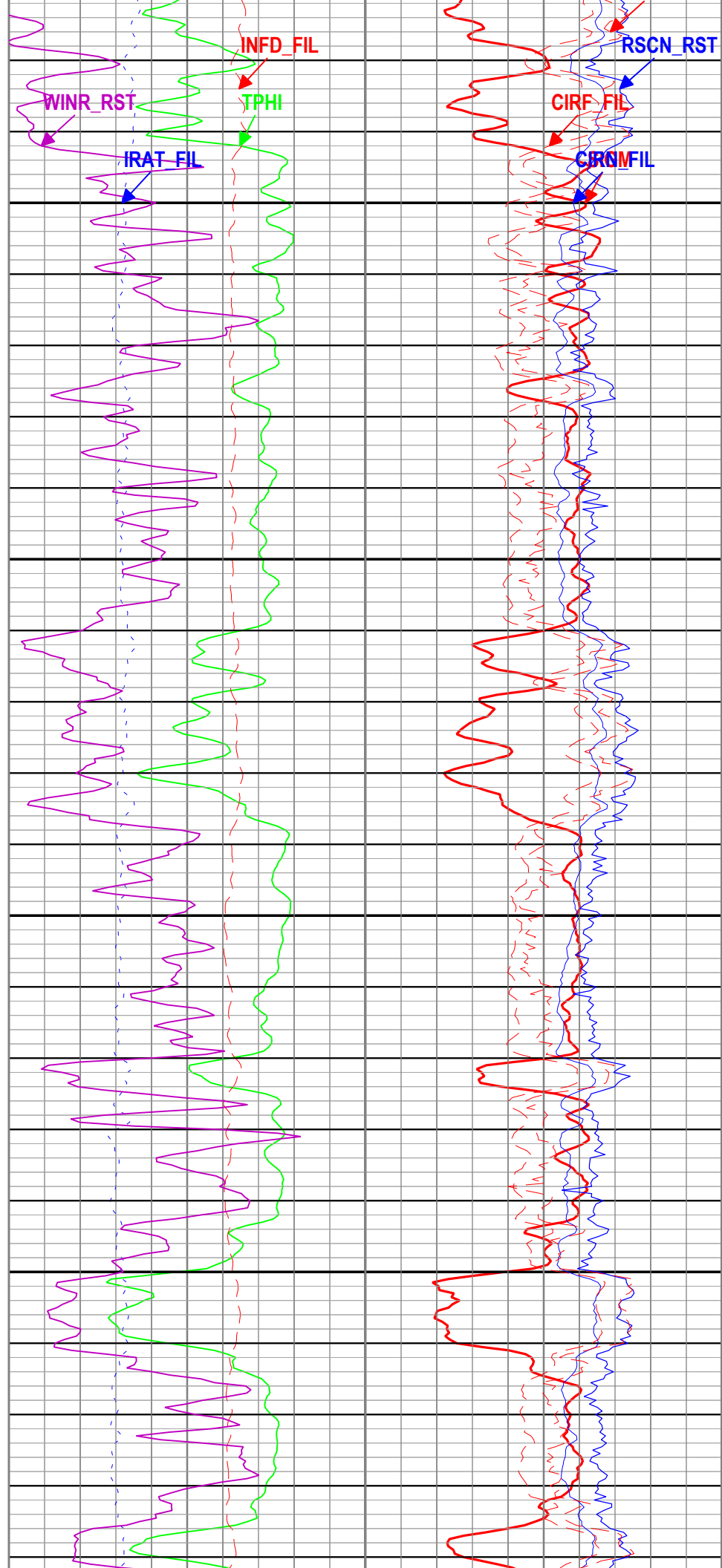
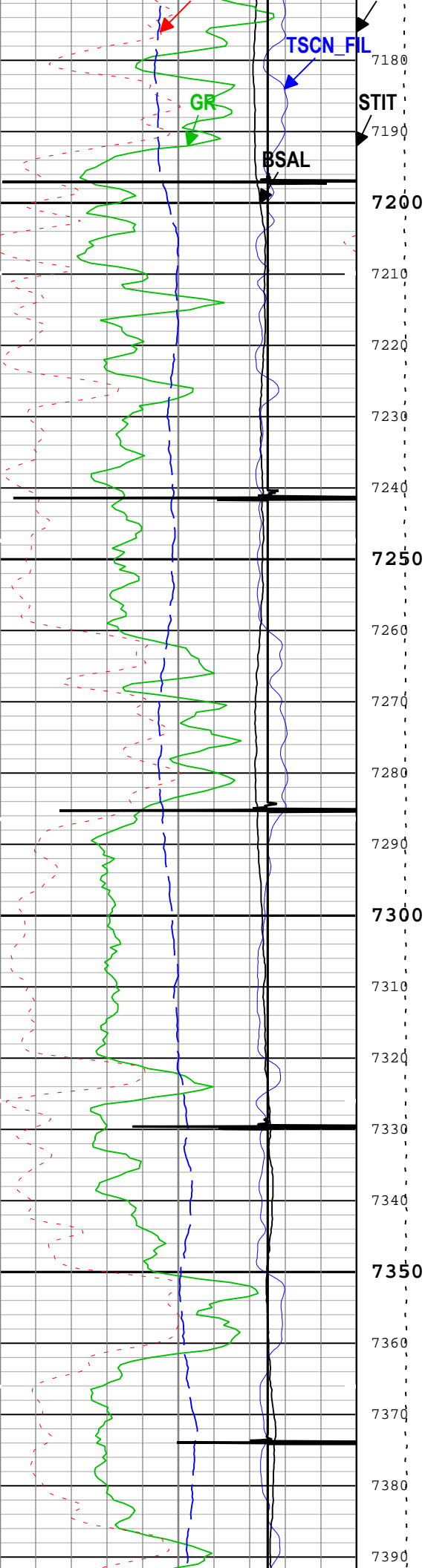


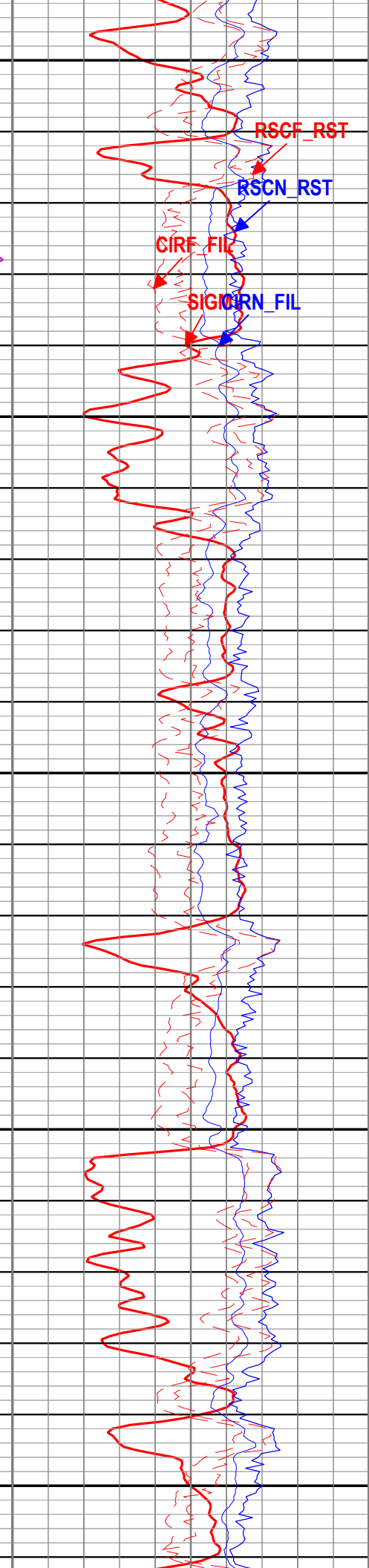
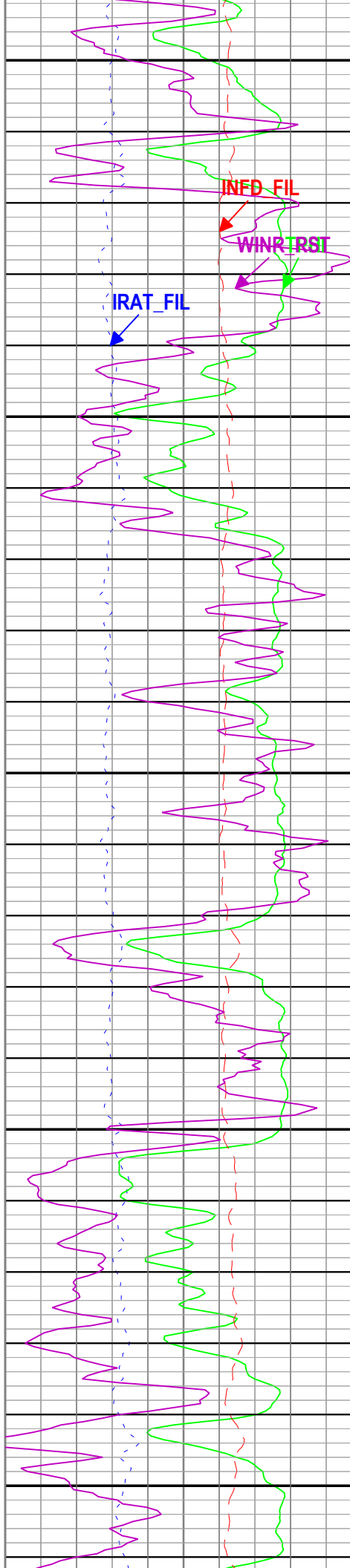
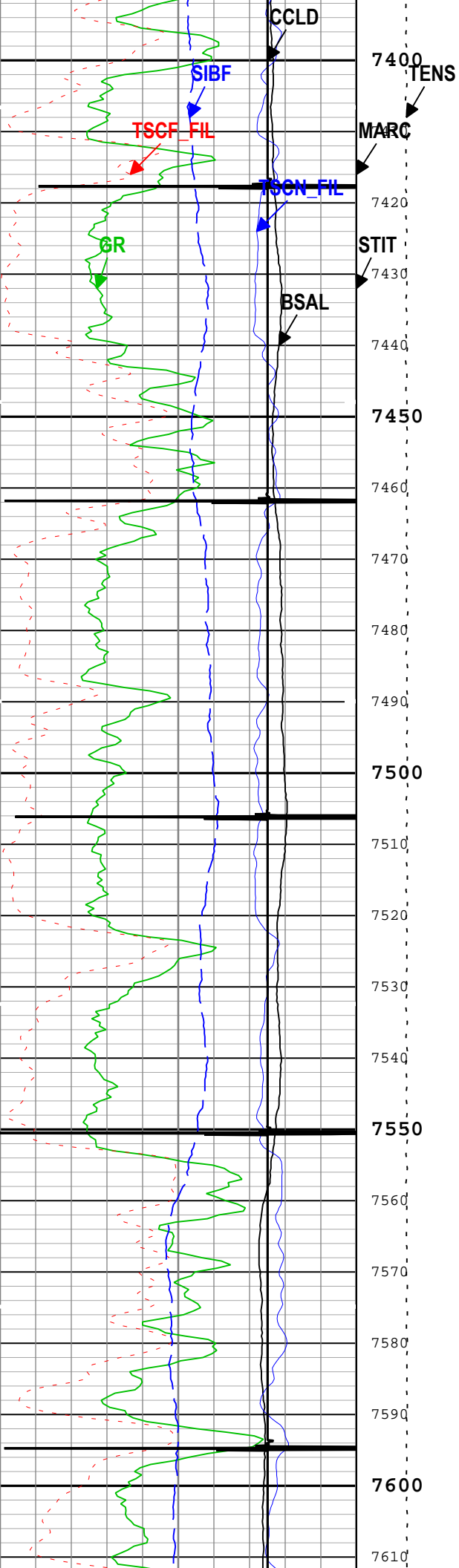


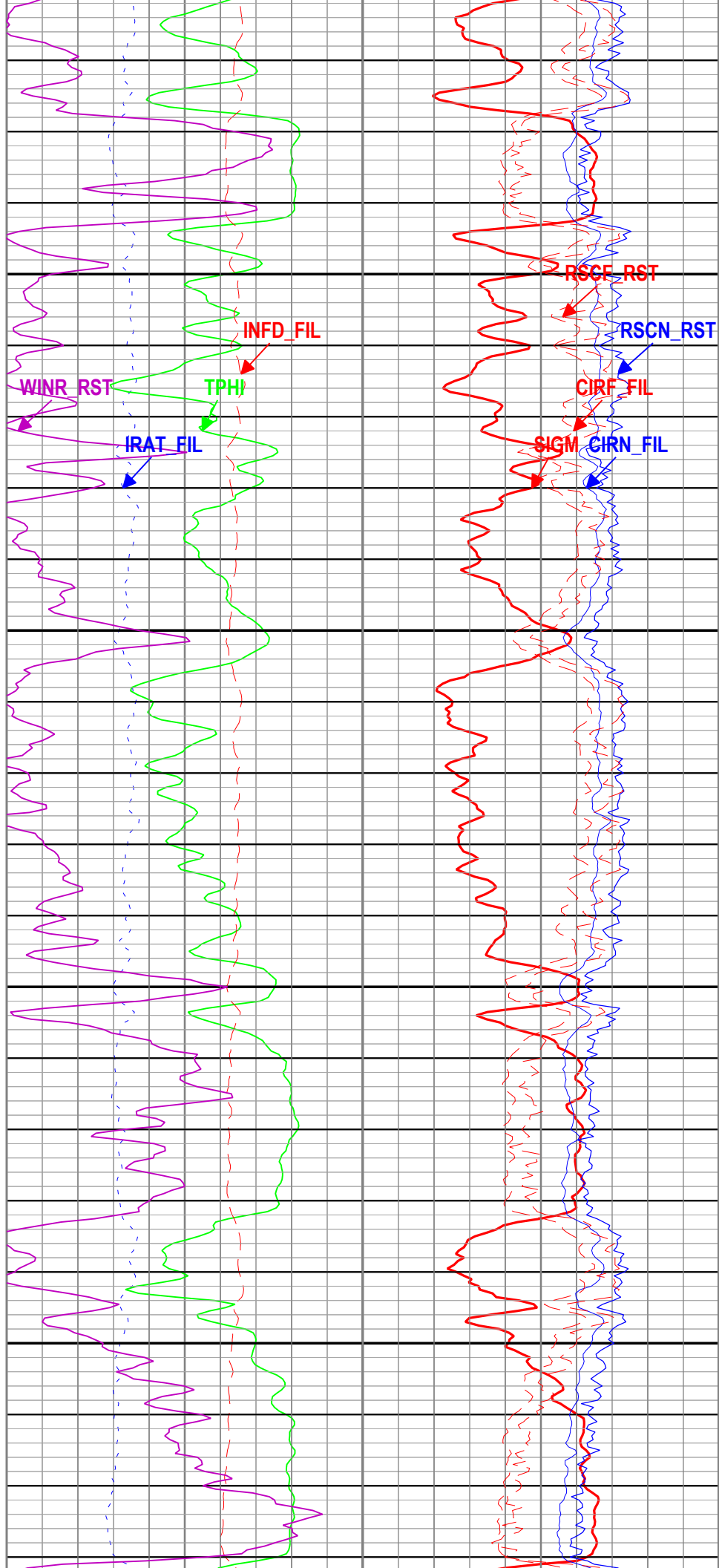
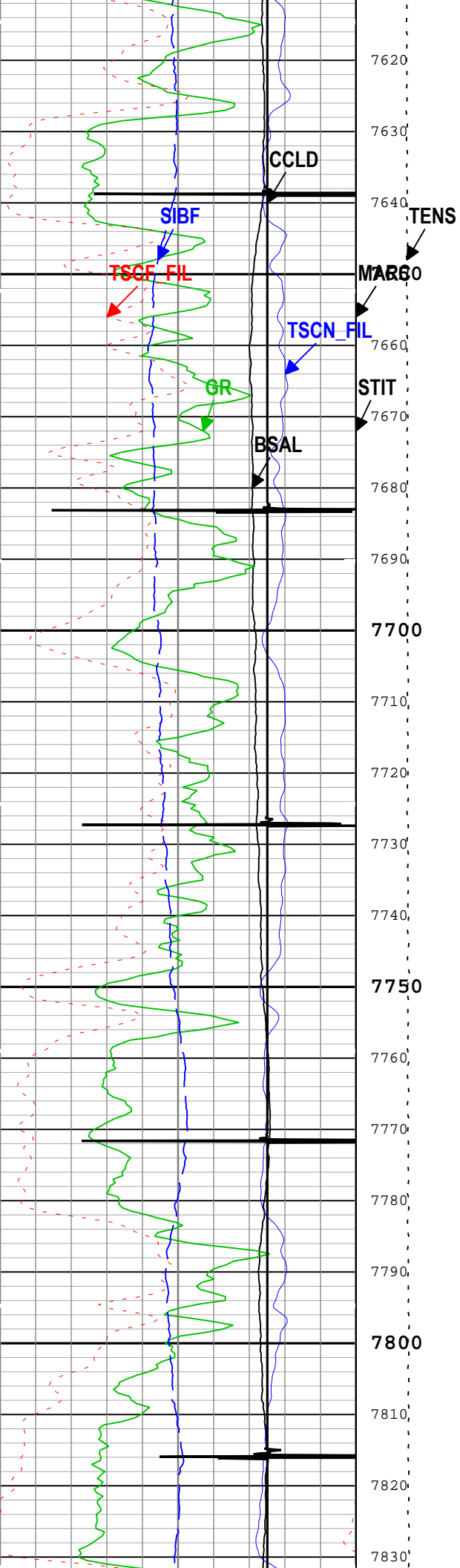


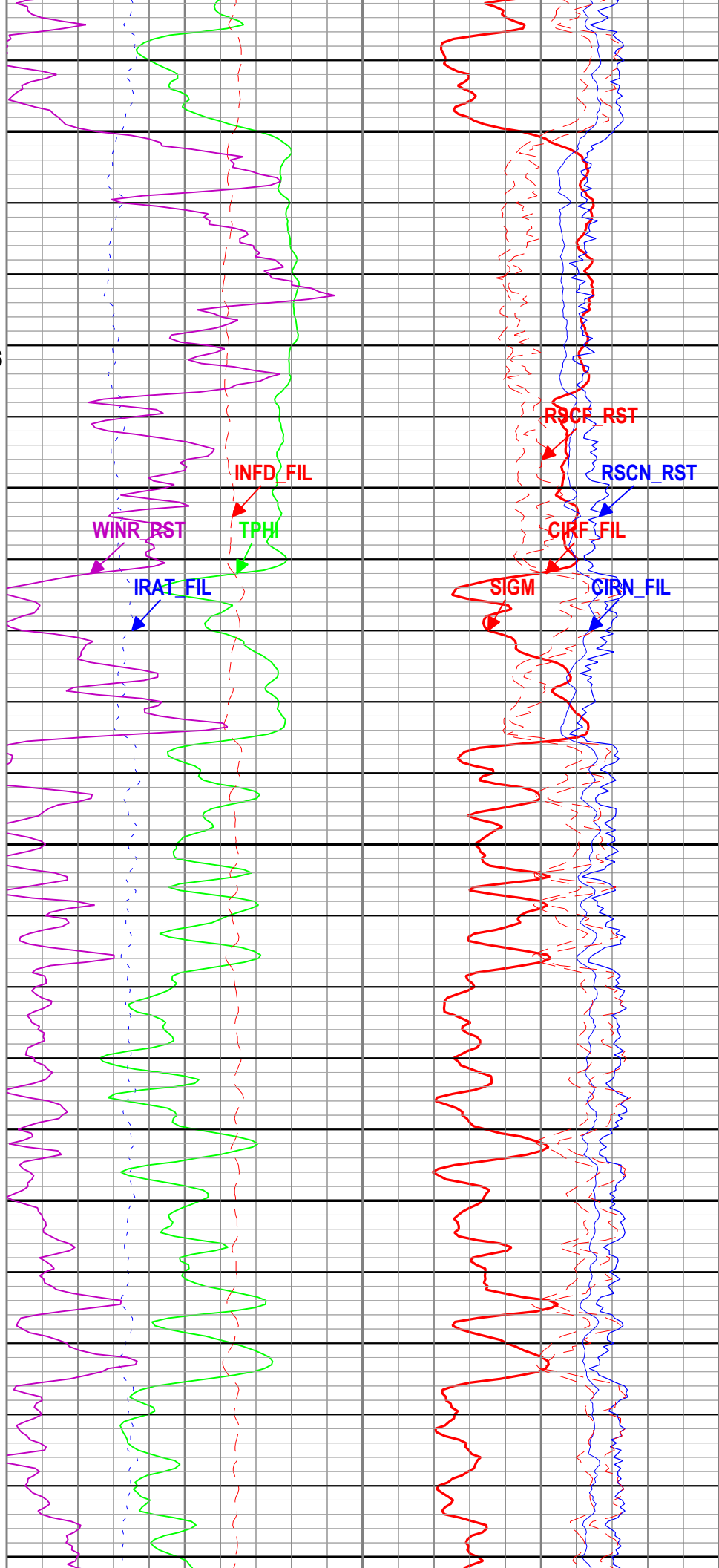
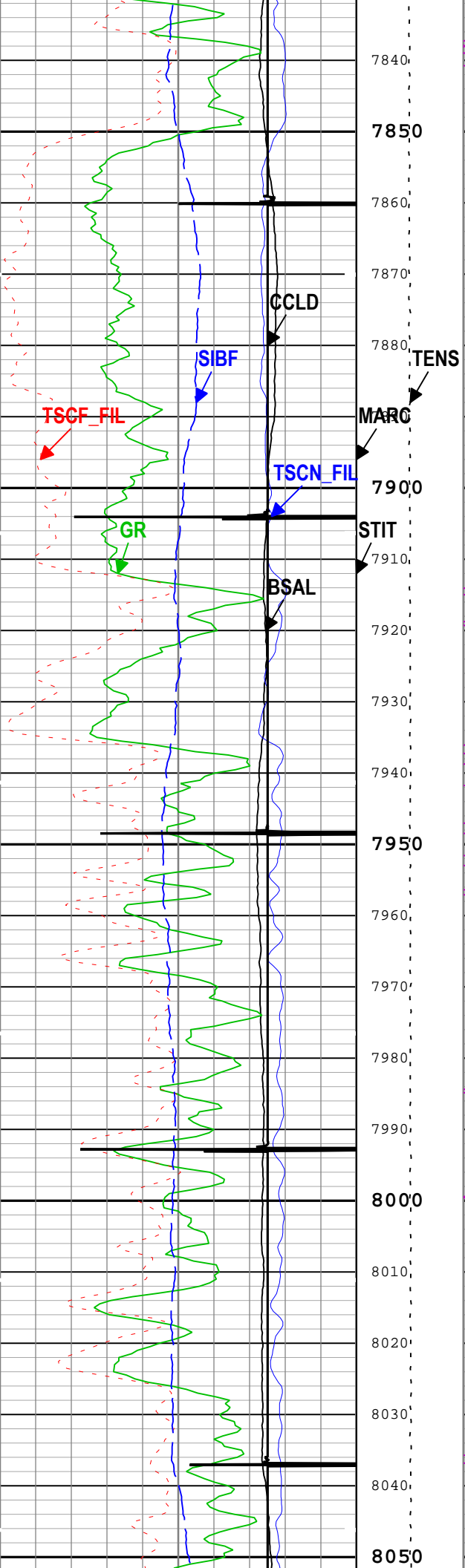


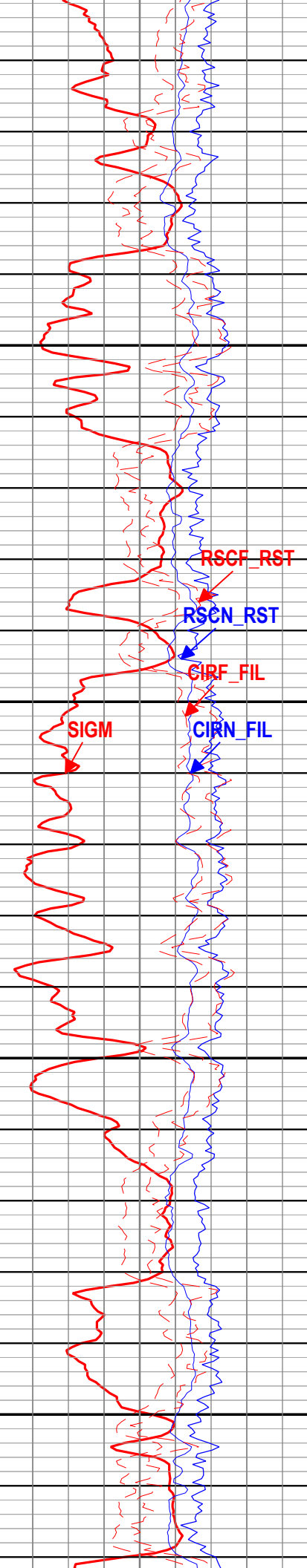
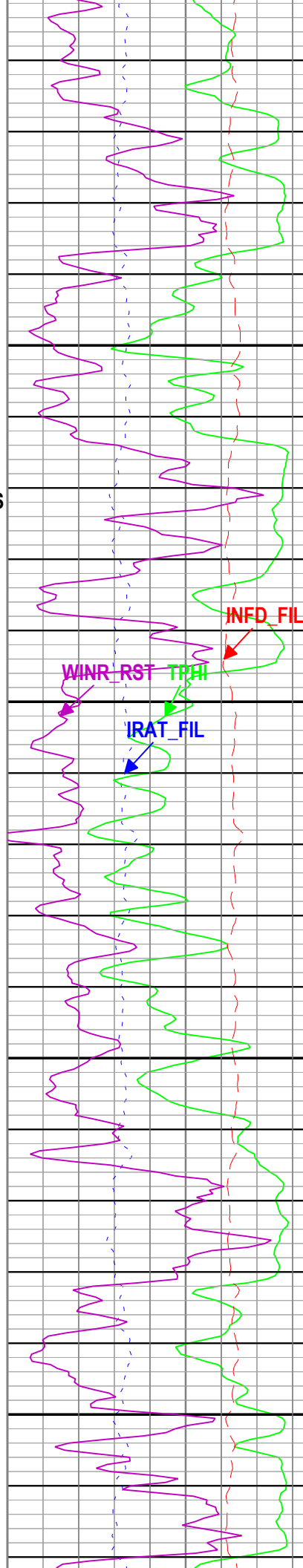
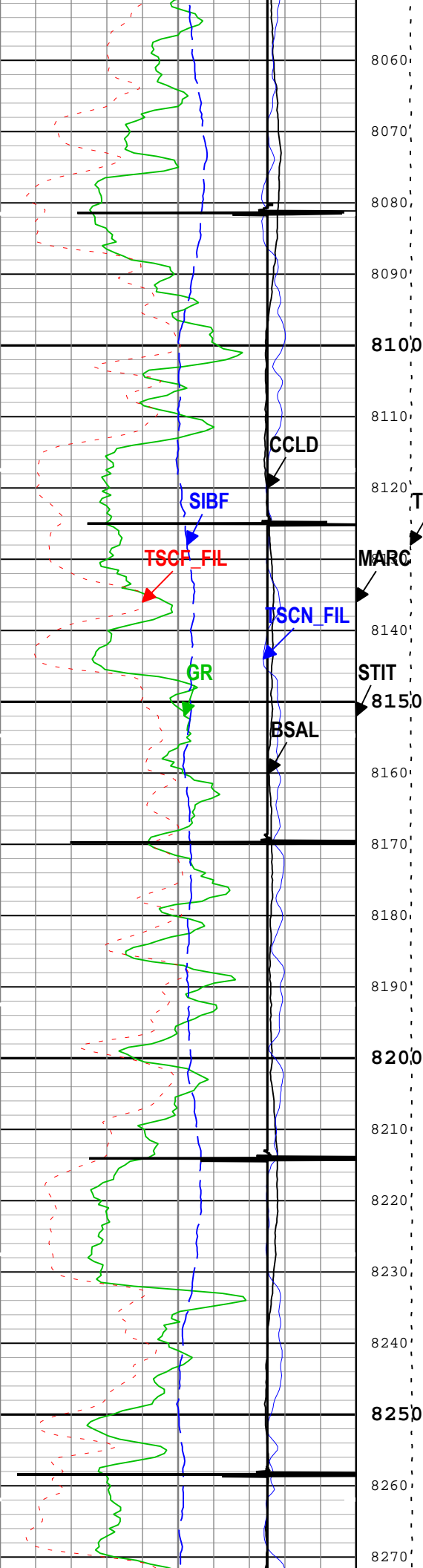


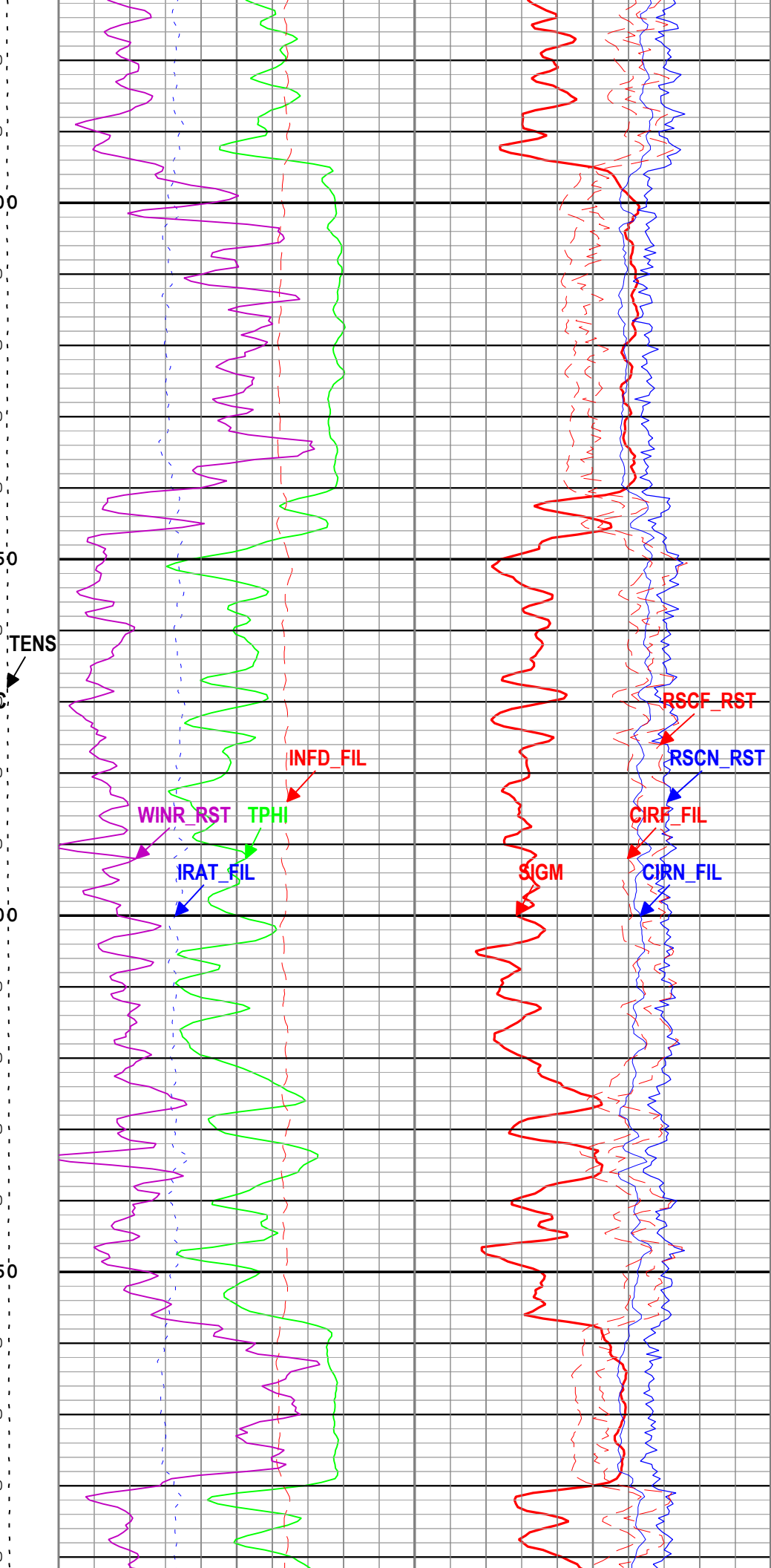
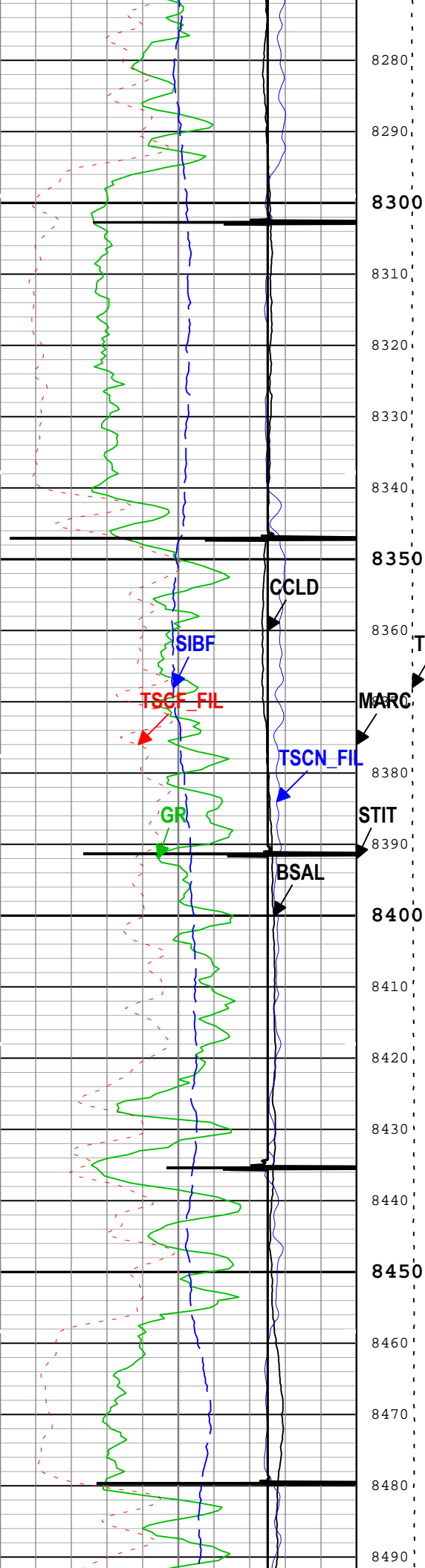


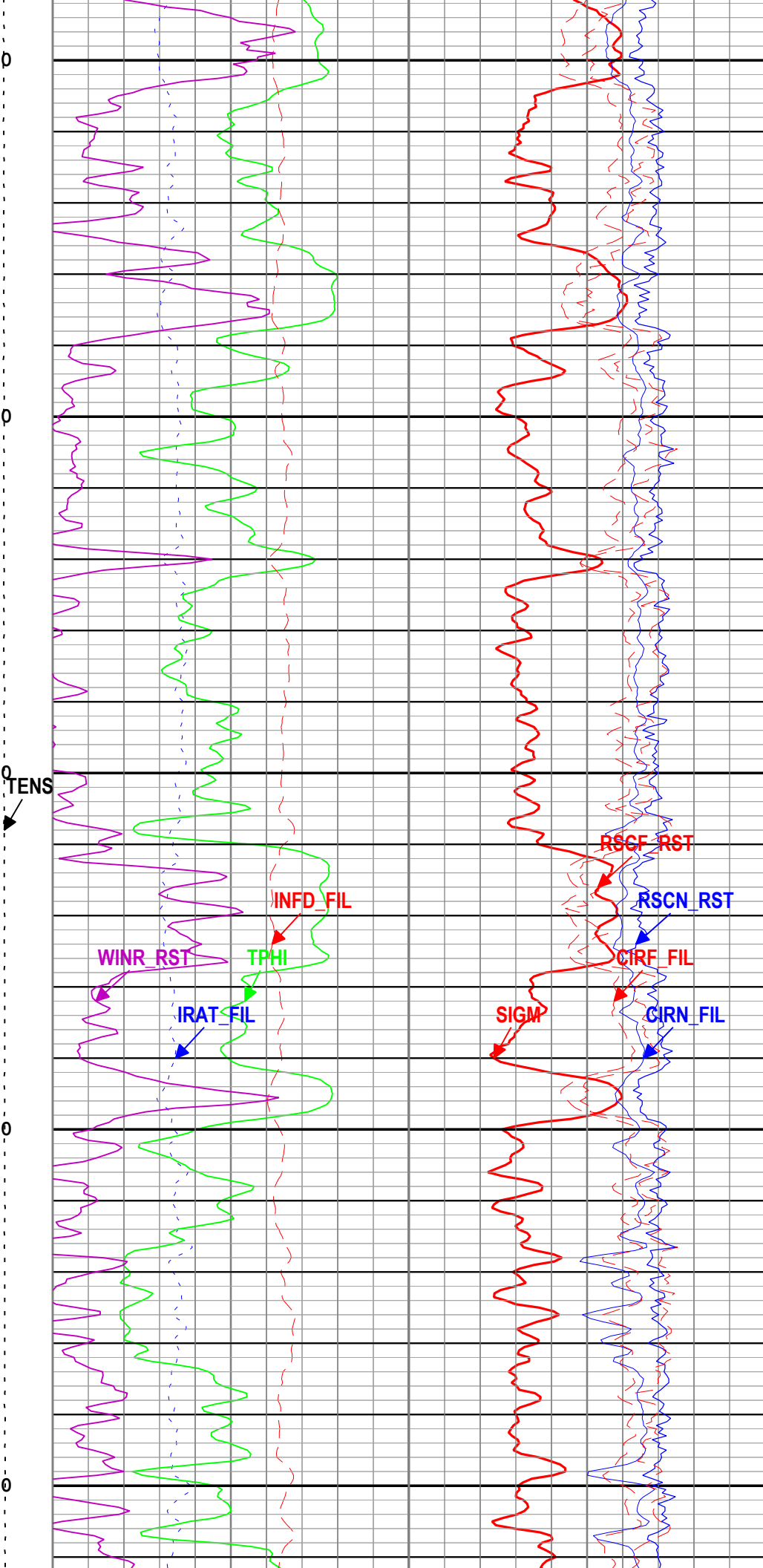
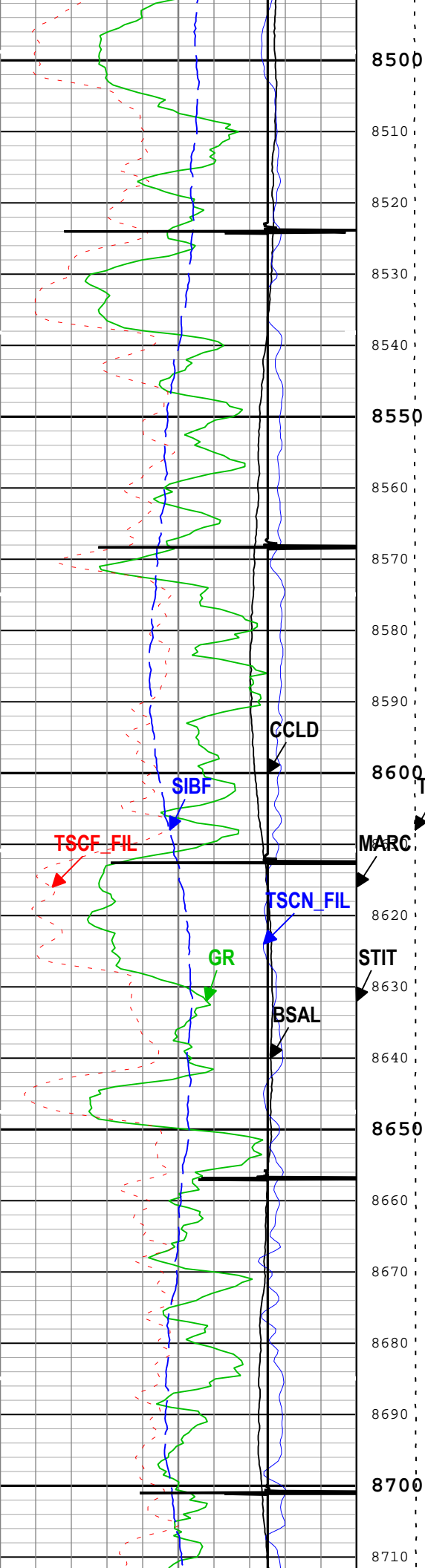


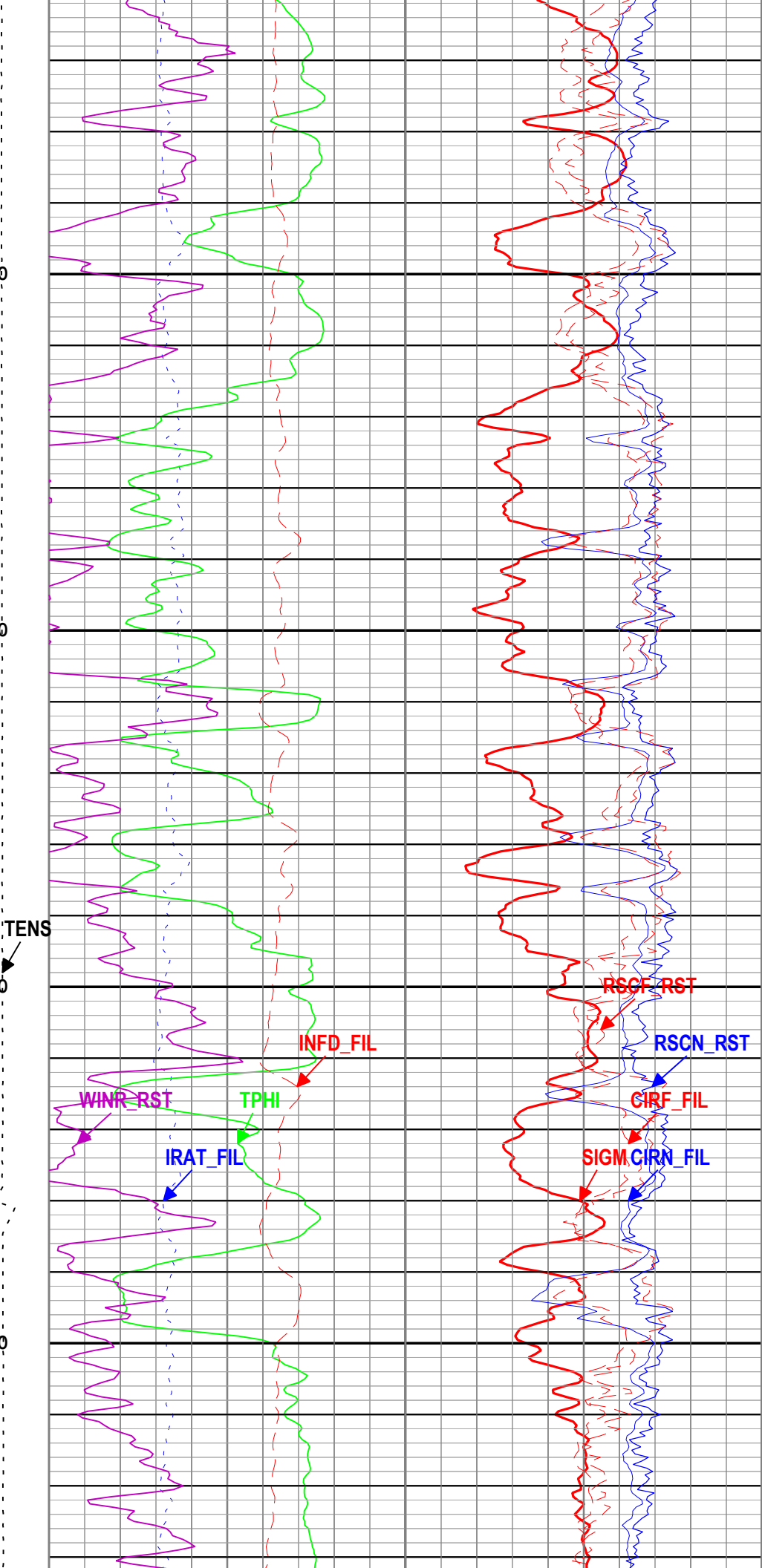
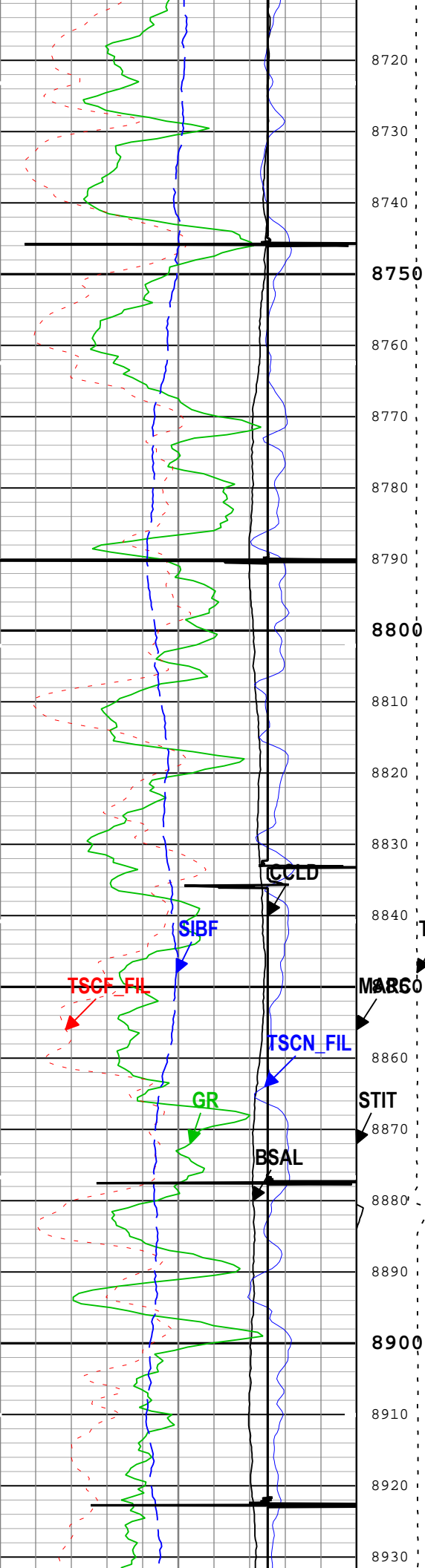


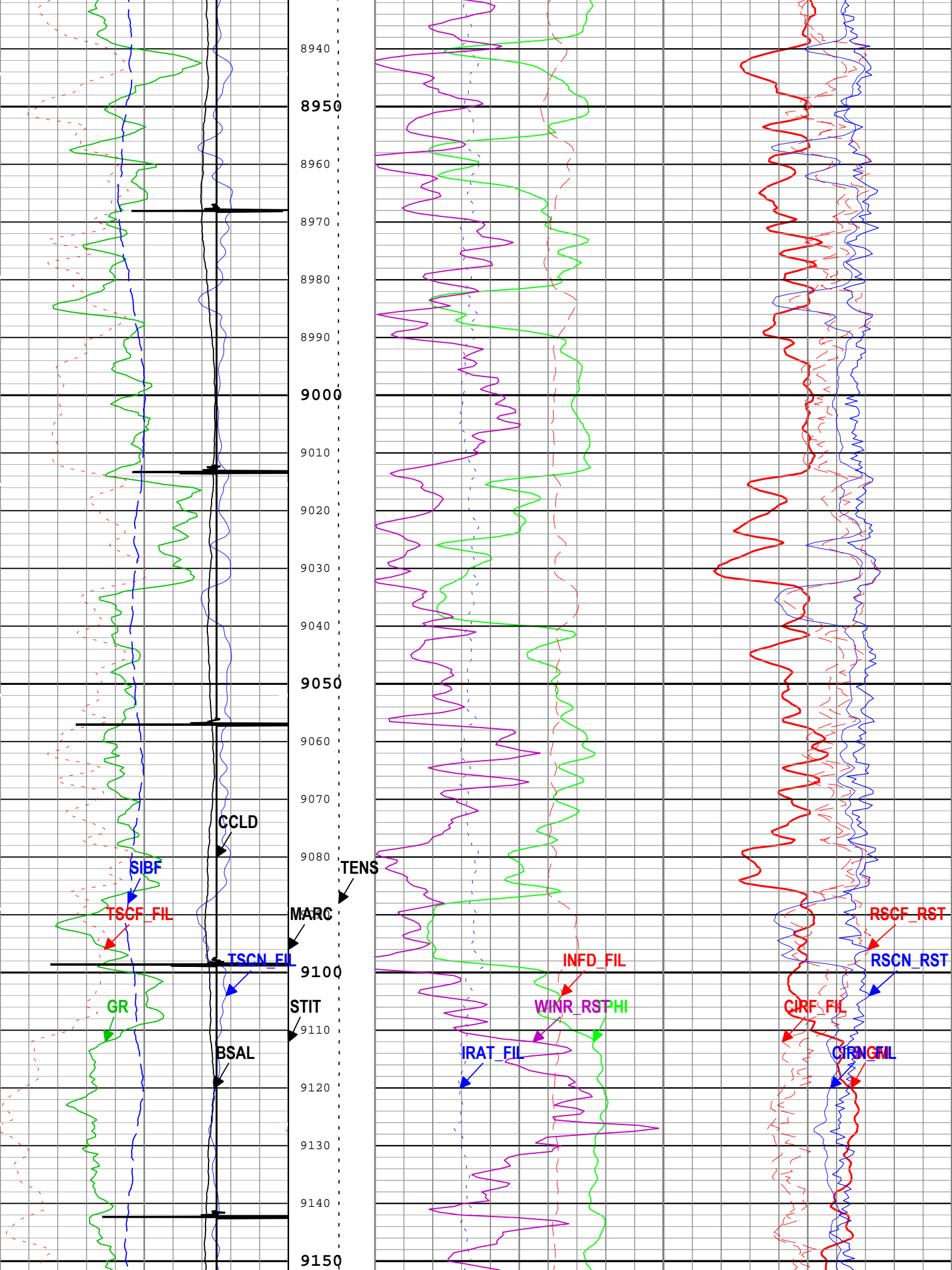


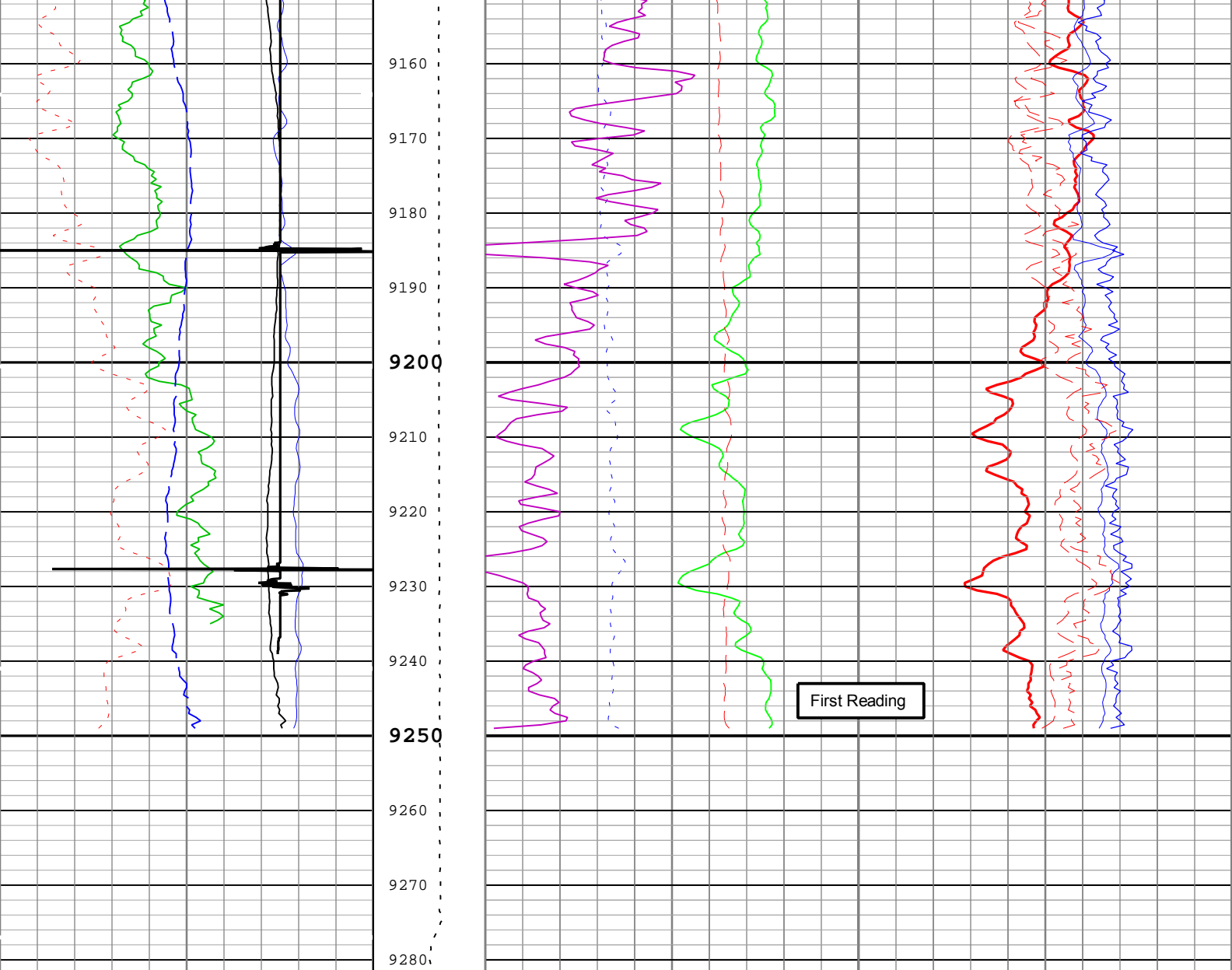








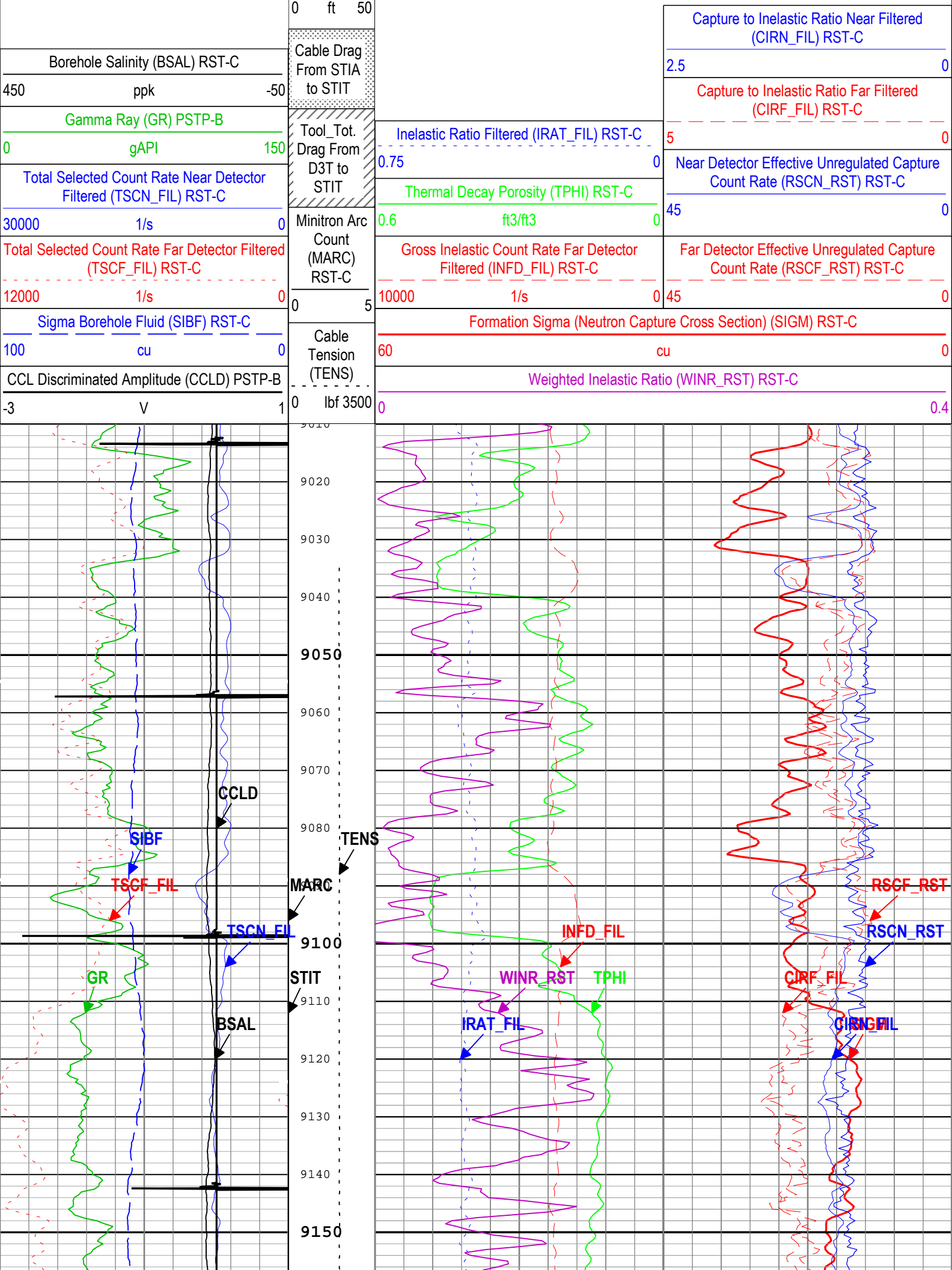


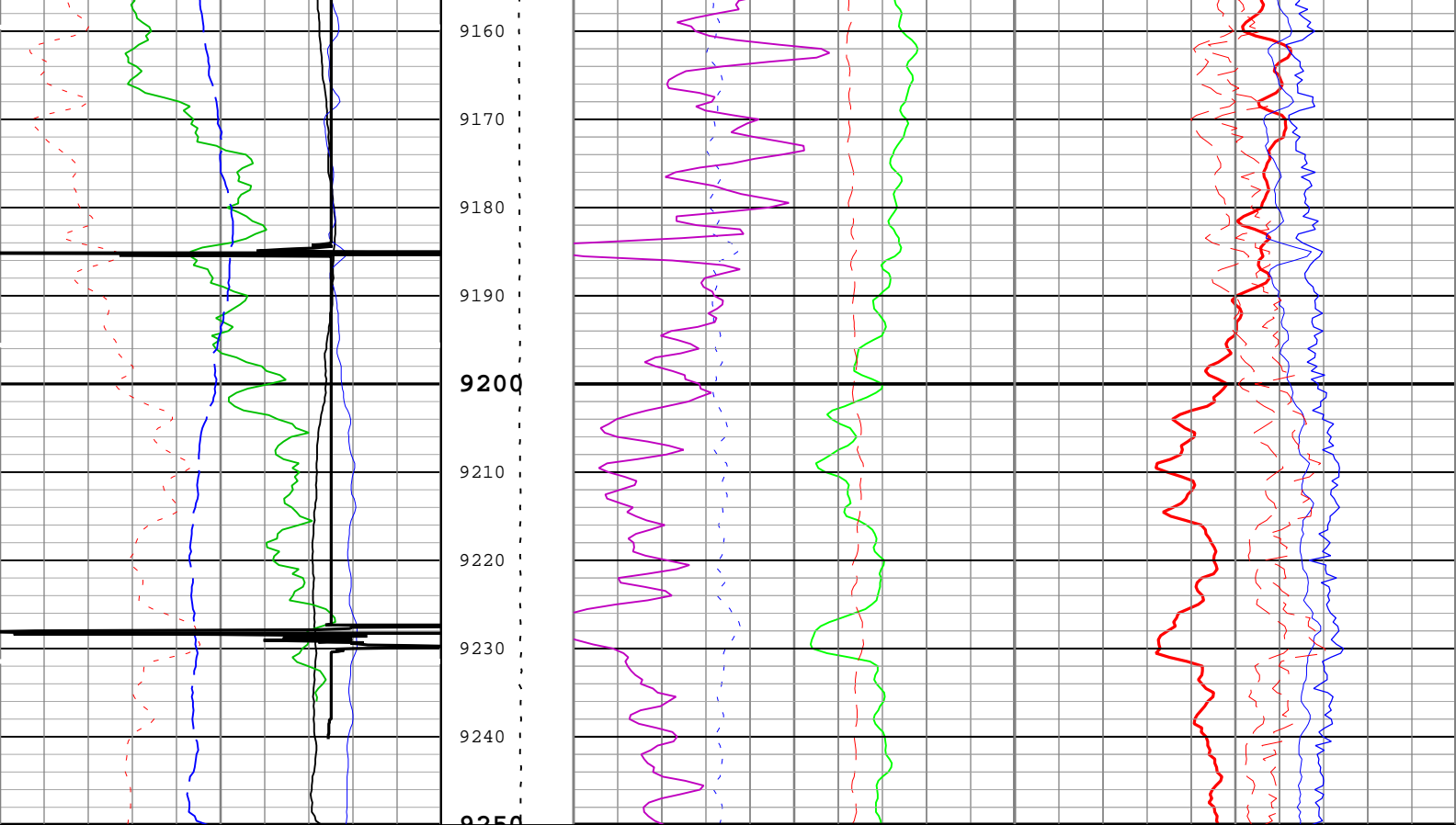


Borehole Salinity (BSAL) RST-C			Stuck Tool Indicator, Total (STIT)	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
450	ppk	-50		60	cu	0
Gamma Ray (GR) PSTP-B			0 ft 50	Weighted Inelastic Ratio (WINR_RST) RST-C		
0	gAPI	150		0		0.4
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C			Cable Drag From STIA to STIT	Inelastic Ratio Filtered (IRAT_FIL) RST-C	Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C	
30000	1/s	0		0.75	0	2.5
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C			Tool_Tot. Drag From D3T to STIT	Thermal Decay Porosity (TPHI) RST-C	Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C	
12000	1/s	0		0.6	ft3/ft3	0
Sigma Borehole Fluid (SIBF) RST-C			Minitron Arc Count (MARC) RST-C	Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C	Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C	
100	cu	0		10000	1/s	0
CCL Discriminated Amplitude (CCLD) PSTP-B			0 5			45
-3	V	1	Cable Tension (TENS)		Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C	
					45	0
			0 lbf 3500			

— ICV - Integrated Cement Volume every 100.00 (ft3)

Stuck Tool
Indicator,
Total (STIT)





Borehole Salinity (BSAL) RST-C			Stuck Tool Indicator, Total (STIT)			Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
450	ppk	-50	60	cu	0	60	cu	0
Gamma Ray (GR) PSTP-B			0 ft 50			Weighted Inelastic Ratio (WINR_RST) RST-C		
0	gAPI	150	Cable Drag From STIA to STIT			0		0.4
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C			Tool_Tot. Drag From D3T to STIT			Inelastic Ratio Filtered (IRAT_FIL) RST-C		
30000	1/s	0	Minitron Arc Count (MARC) RST-C			0.75	0	
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C			Cable Tension (TENS)			Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C		
12000	1/s	0	0 lbf 3500			2.5	0	
Sigma Borehole Fluid (SIBF) RST-C						Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C		
100	cu	0				5	0	
CCL Discriminated Amplitude (CCLD) PSTP-B						Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C		
-3	V	1				45	0	
						Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C		
						45	0	

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

Description: RST SIGMA Answer Format: Log (RST SIGMA Answer_2) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 18-Dec-2017 22:53:09

Channel Processing Parameters

RST/SCMT: Parameters

Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
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**RST/SCMT: Parameters**

Parameter	Description	Tool	Value	Unit
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	

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
PCCG	24 dB	17-Dec-2017 18:07:17	17-Dec-2017 18:09:30	9284.18	9213.04
PCCG	12 dB	17-Dec-2017 18:09:30	17-Dec-2017 18:14:35	9213.04	9034.42

All depth are at tool zero.

Well:	Puckett 14B-23 697
Field:	Grand Valley
County:	Garfield
State:	Colorado

Cement Bond Log
Resivoir Saturation Log
Gamma Ray Collar Log