

Company: Caerus Operating LLC

Well: NPR 23C-10 596

Field: NPR

County: Garfield State: Colorado

Cement Bond Log

RST Sigma Log

Gamma Ray - Collar Locator

County:	Garfield		
Field:	NPR		
Location:	K10-596		
Well:	NPR 23C-10 596		
Company:	Caerus Operating LLC		
Location:		Elev.:	K.B. 6733.00 ft G.L. 6709.00 ft D.F.
Permanent Datum:	Ground Level	Elev.:	6709.00 f
Log Measured From:	Kelly Bushing	24.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Section:	Township:	Range:
05045237810000	10	5S	NPR 23C-10 596

Logging Date 15-Sep-2018

Run Number One

Depth Driller 9853.00 ft

Schlumberger Depth 9802.00 ft

Bottom Log Interval 9802.00 ft

Top Log Interval 2800.00 ft

Casing Fluid Type 2% KCL Water

Salinity

Density 8.5 lbm/gal

Fluid Level 8.00 ft

BIT/CASING/TUBING STRING

Bit Size 8.75 in

From 2992.00 ft

To 9800.00 ft

Casing/Tubing Size 4.5 in

Weight 11.6 lbm/ft

Grade P110

From 2988.00 ft

To 9800.00 ft

Max Recorded Temperatures 278.6 degF

Logger on Bottom 15-Sep-2018 13:08:00

Unit Number 3007 Location: Evanson, WY

Recorded By Roma Shalia

Witnessed By Trent Ray

Disclaimer

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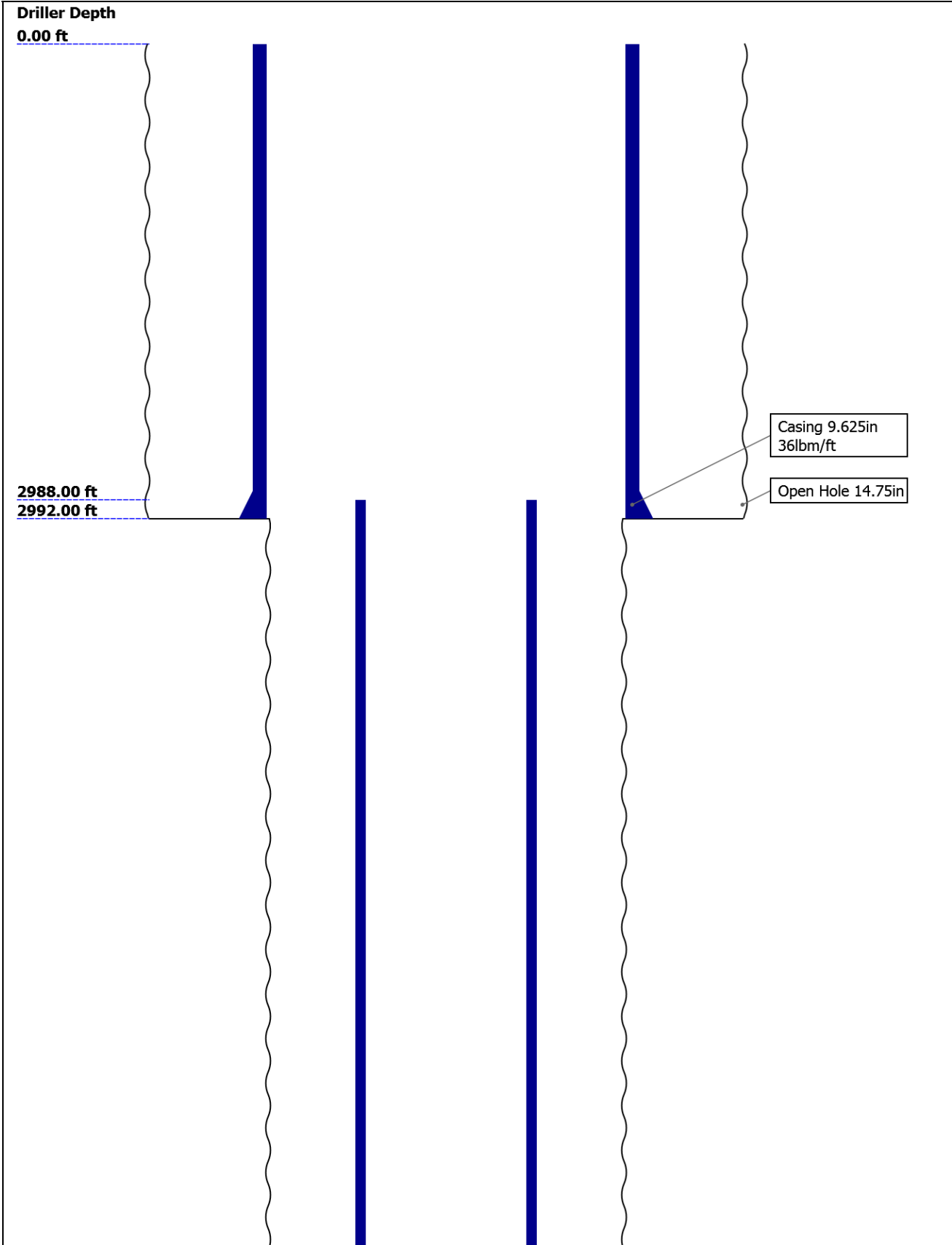
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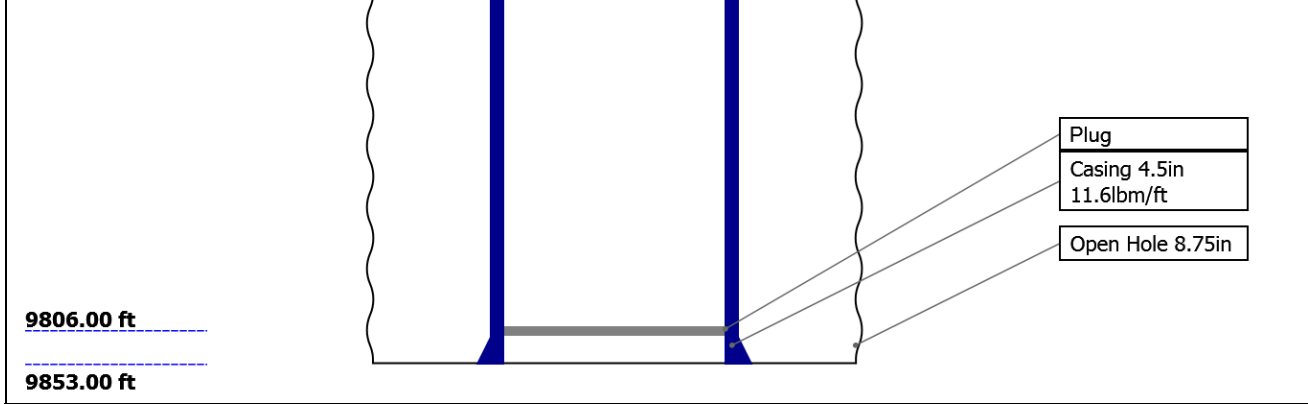
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Well Sketch







Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	14.75	8.75				
Top Driller (ft)	0	2992				
Top Logger (ft)	0	2992				
Bottom Driller (ft)	2992	9853				
Bottom Logger (ft)	2992	9800				
Casing						
Size (in)	9.625	4.5				
Weight (lbm/ft)	36	11.6				
Inner Diameter (in)	8.921	4				
Grade	J55	P110				
Top Driller (ft)	0	2988				
Top Logger (ft)	0	2988				
Bottom Driller (ft)	2992	9853				
Bottom Logger (ft)	2992	9800				

Remarks and Equipment Summary

One: Toolstring				One: Remarks		
Equip name	Length	MP name	Offset	Toolstring ran as per toolsketch		
PEH-E	61.66			RST Mode: Sigma		
				Matrix: Sandstone		
AH-38	59.98			Max Recorded Temp: 278.6degF		
PSTP-B:282	59.7			SLB Depth: 9800ft		
PSC-A				Thank you Ffor choosing Schlumberger!!		
PSC-A						
PBMS-B:2826						
		GR	55.99			
		PSTC	55.7			
		PSTC Tool	0.00			
		String Bot				
		tom				
		Temperatu	52.94			
		re				
		CQG Press	52.6			
		ure				
		CCL	52.18			
		PBMS	51.43			
RST-C:578	51.43					
RSCH-A:437						
RSC-E:551						
RSS-A:488						
MNTR-F:1352						
-51352						
RSXH-A						
RSX-E:578						
		RSC-E	45.07			

BNS-P **0.14**   **TOOL_ZERO**
 Lengths are in ft
 Maximum Outer Diameter = 2.065 in
 Line: Sensor Location, Value: Gating Offset
 All measurements are relative to TOOL_ZERO

Depth Summary

One

Depth Measuring Device

Type	IDW-JA
Serial Number	5979
Calibration Date	10-JUN-2017
Calibrator Serial Number	IDWC-C-57
Calibration Cable Type	1-25ZA-XXS
Wheel Correction 1	-3
Wheel Correction 2	-3

Tension Device

Type	CMTD-B/A
Serial Number	5036
Calibration Date	10-Sep-2018
Calibrator Serial Number	112544A
Number of Calibration Points	10
Calibration Root Mean Square Error	21
Calibration Peak Error	10

Logging Cable

Type	1-25ZA
Serial Number	112140
Length	16800.00 ft
Conveyance Type	Wireline
Rig Type	Crane

One:Depth Control Parameters

Log Sequence	First Log In the Well	All Schlumberger depth control policies followed.
Rig Up Length At Surface		IDW used as primary depth control
Rig Up Length At Bottom		Z-Chart used as secondary depth control
Rig Up Length Correction		
Stretch Correction		
Tool Zero Check At Surface		

One

Main Pass

Software Version

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

Pass Summary

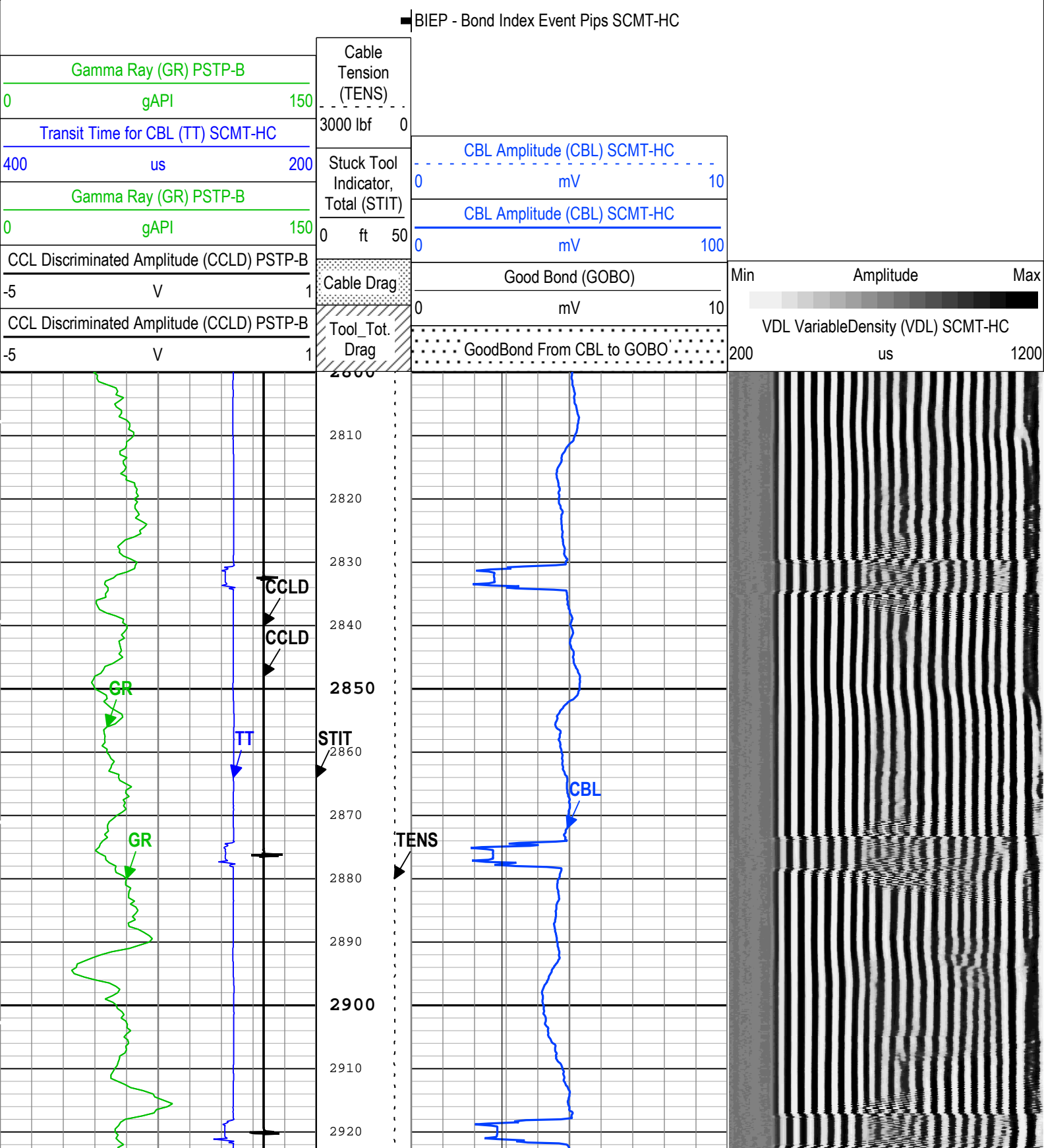
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[3]:Up	Up	56.63 ft	9819.43 ft	15-Sep-2018 12:38:42 PM	15-Sep-2018 5:09:01 PM	ON	9.85 ft	Yes

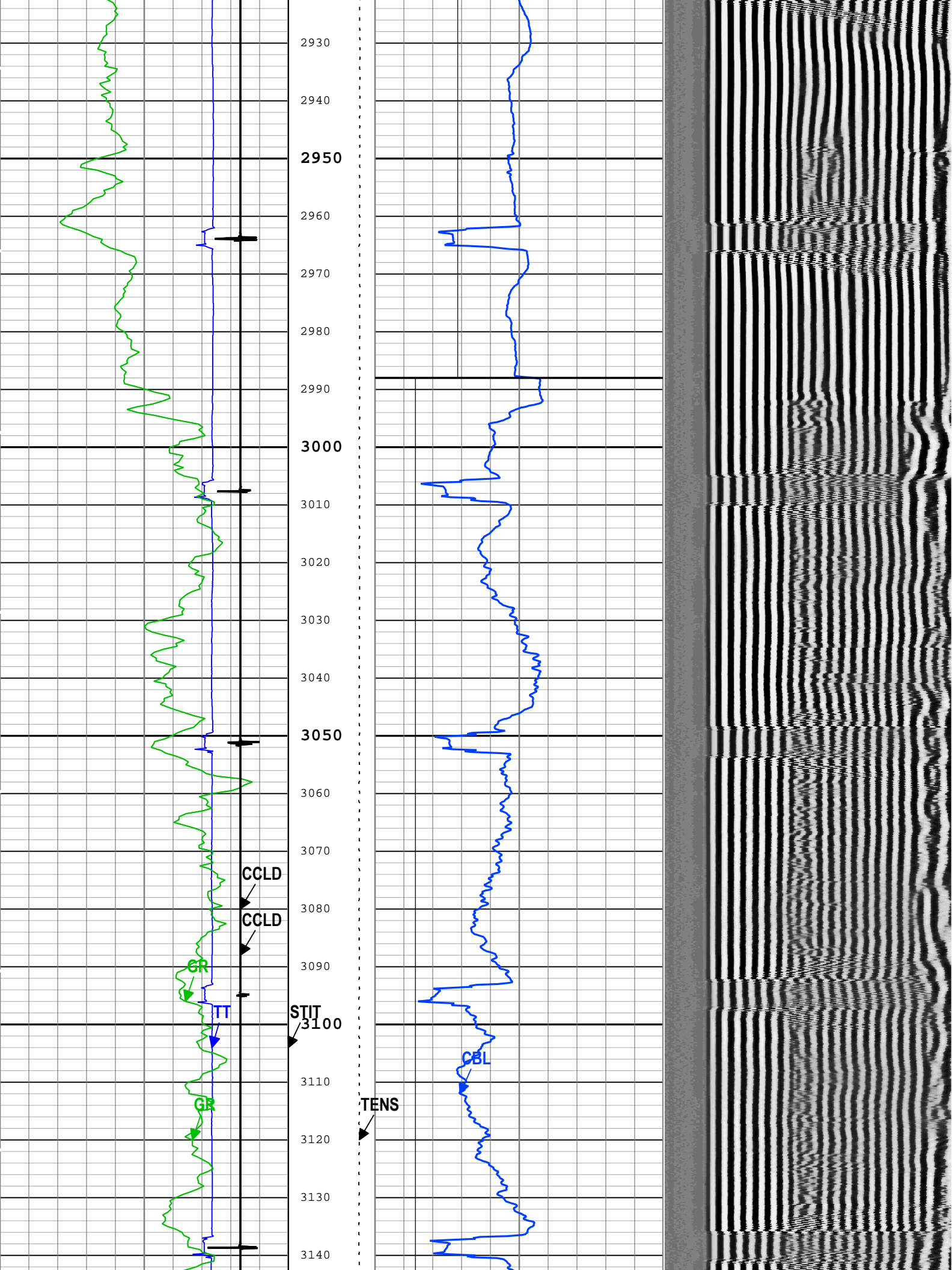
All depths are referenced to toolstring zero

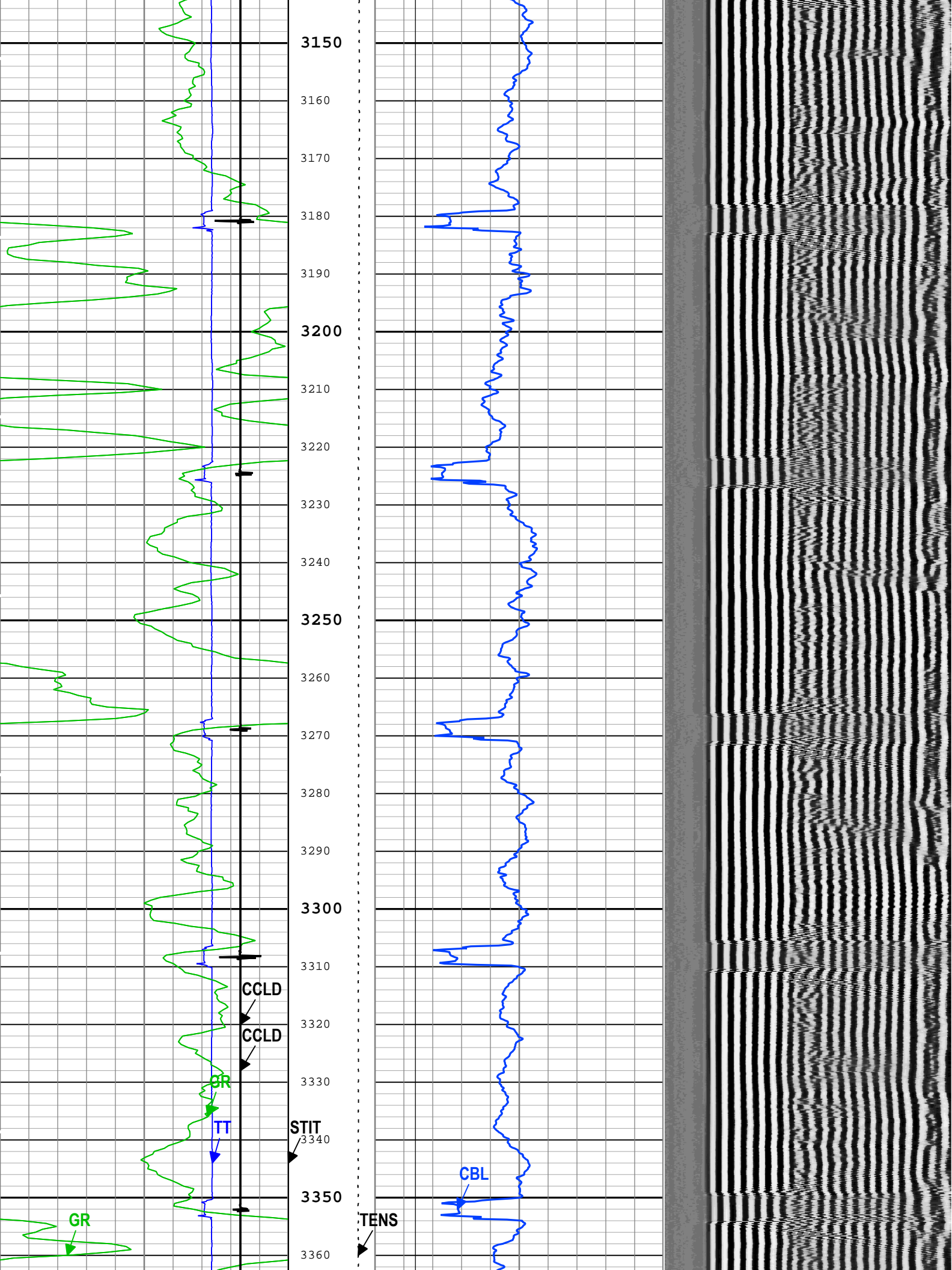
Log	Company:Caerus Operating LLC	Well:NPR 23C-10 596
		One: Log[3]:Up:S002

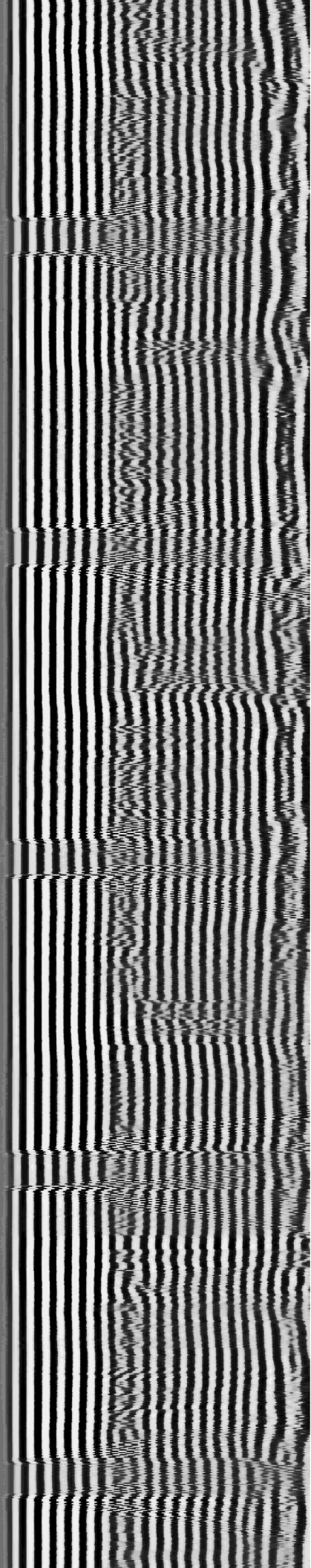
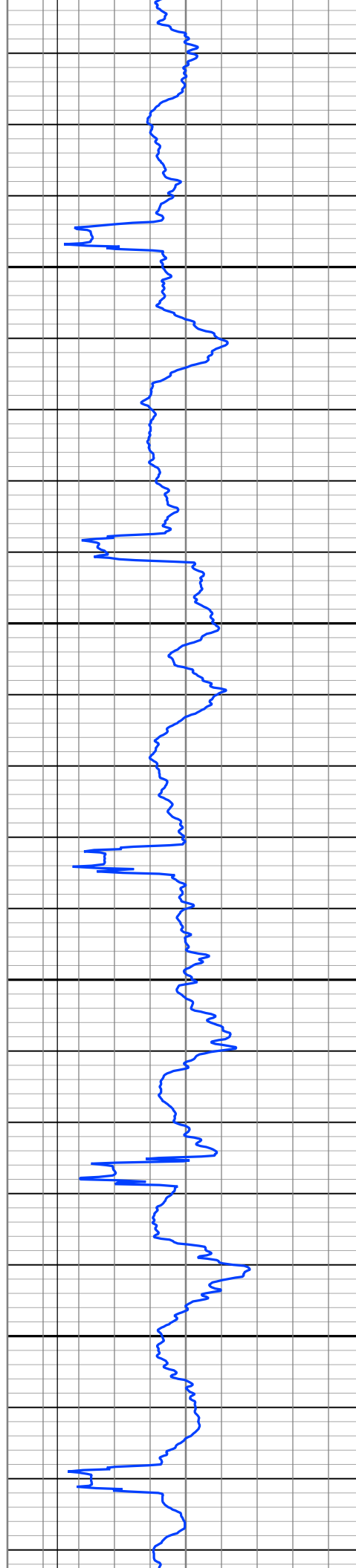
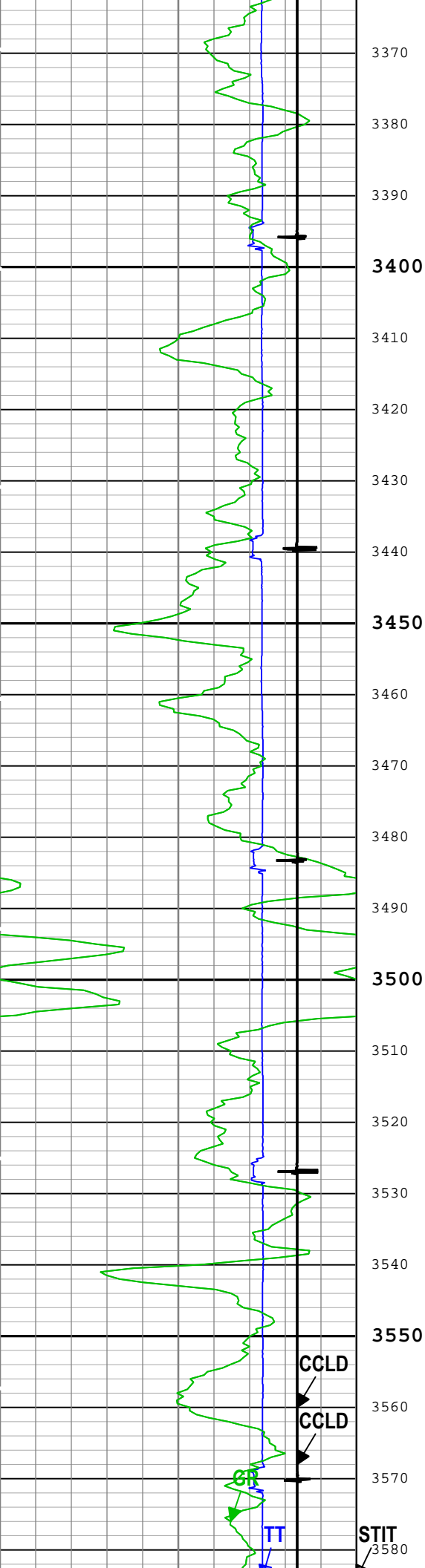
Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 16-Sep-2018 05:24:19

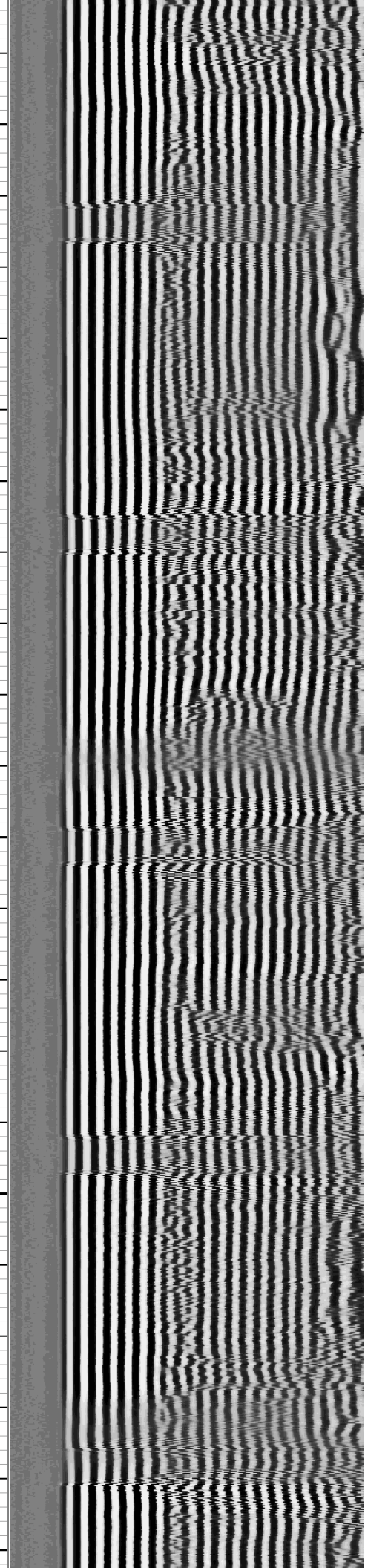
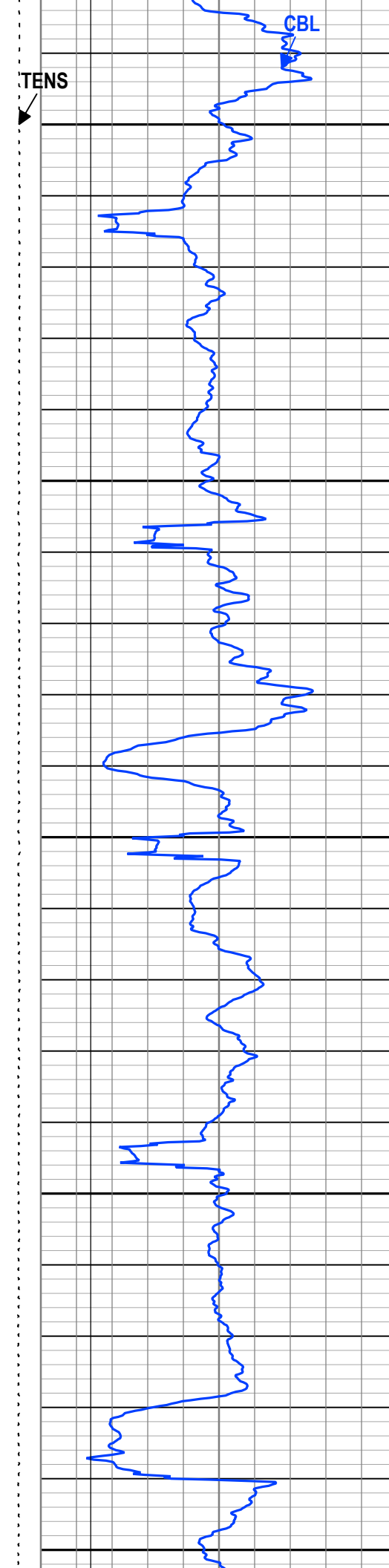
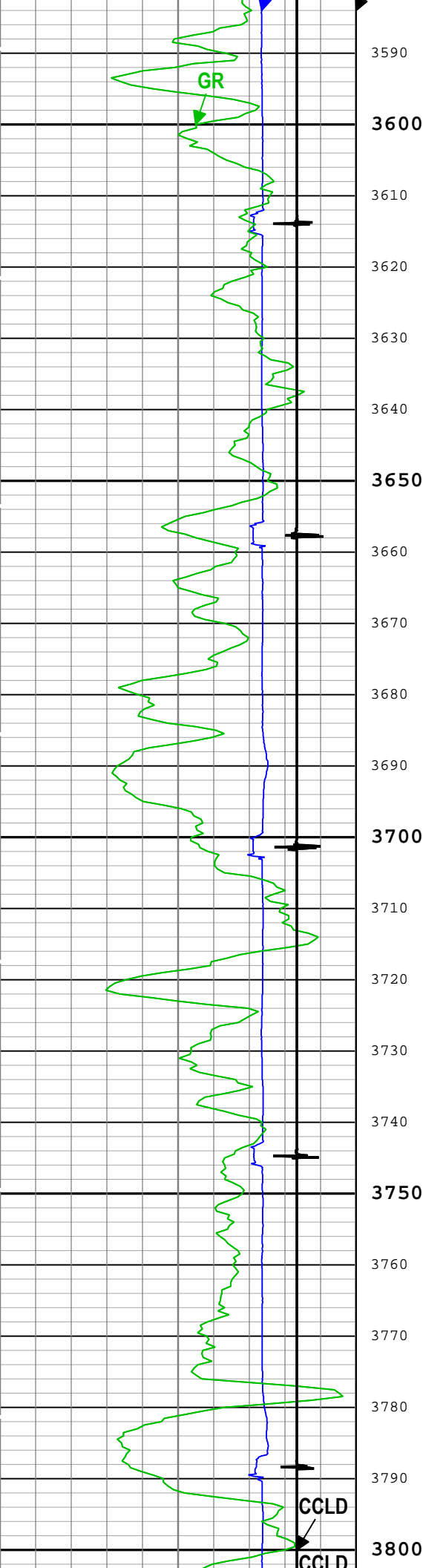
TIME_1900 - Time Marked every 60.00 (s)

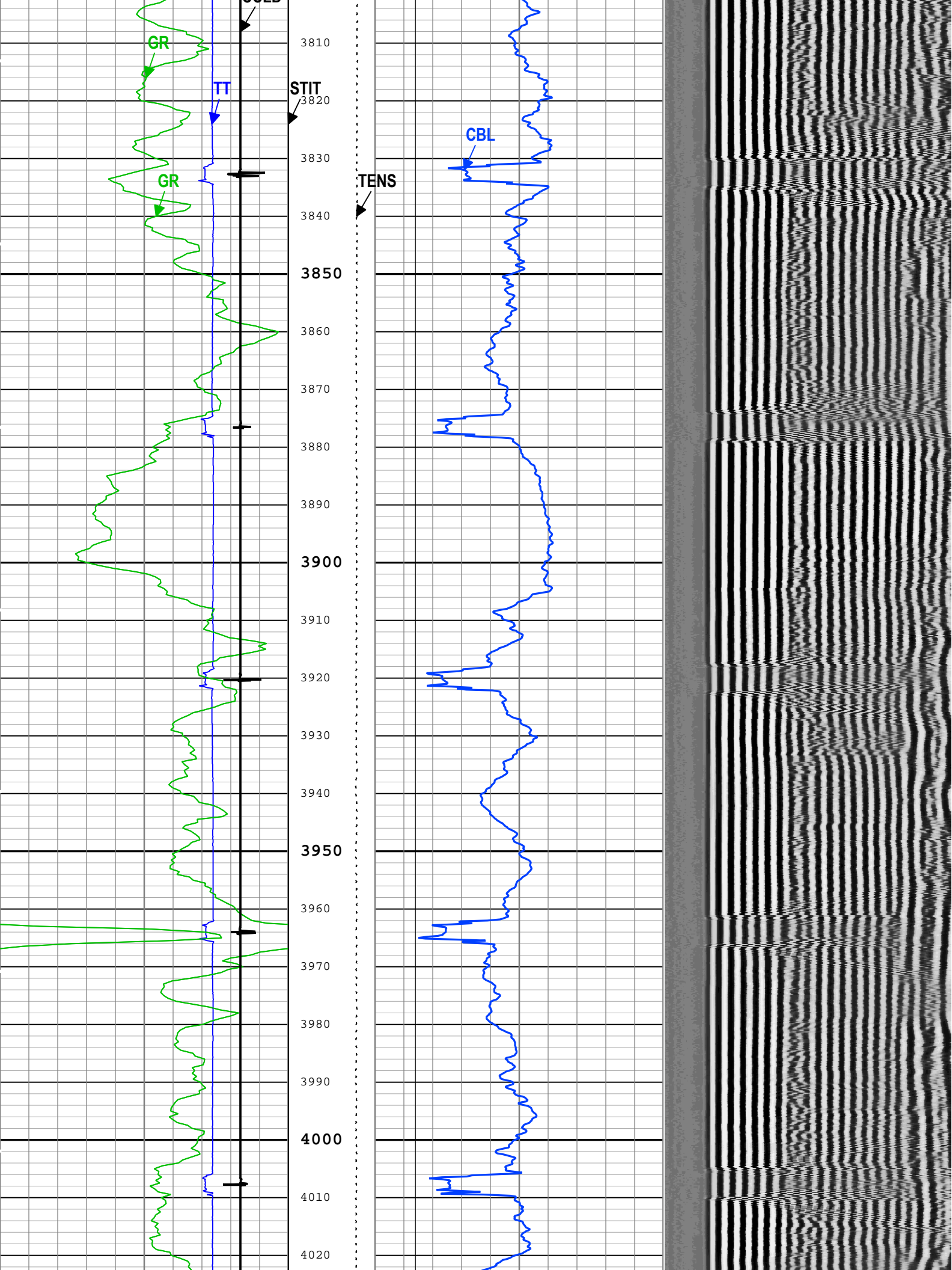


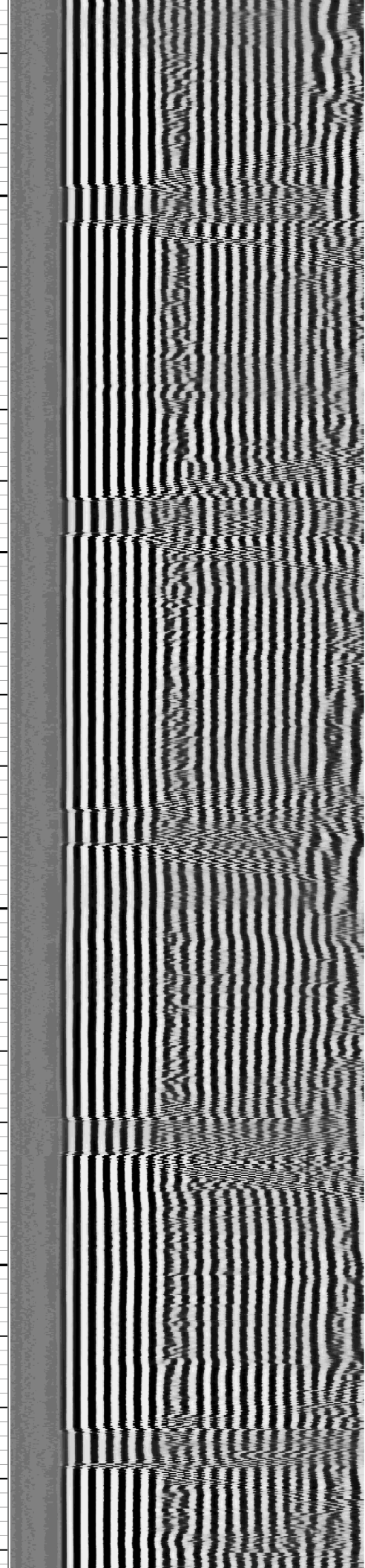
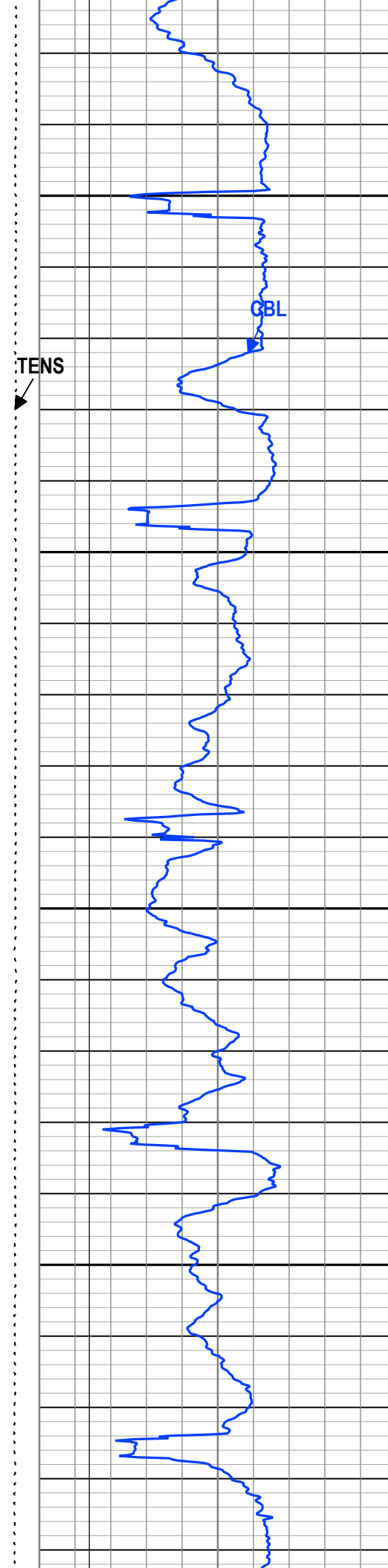
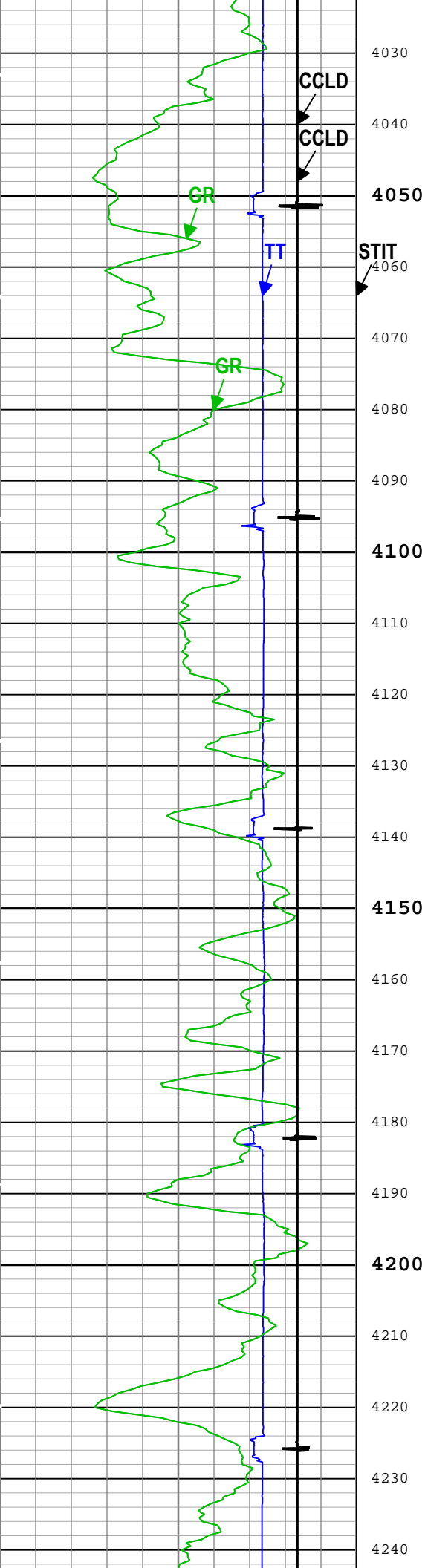


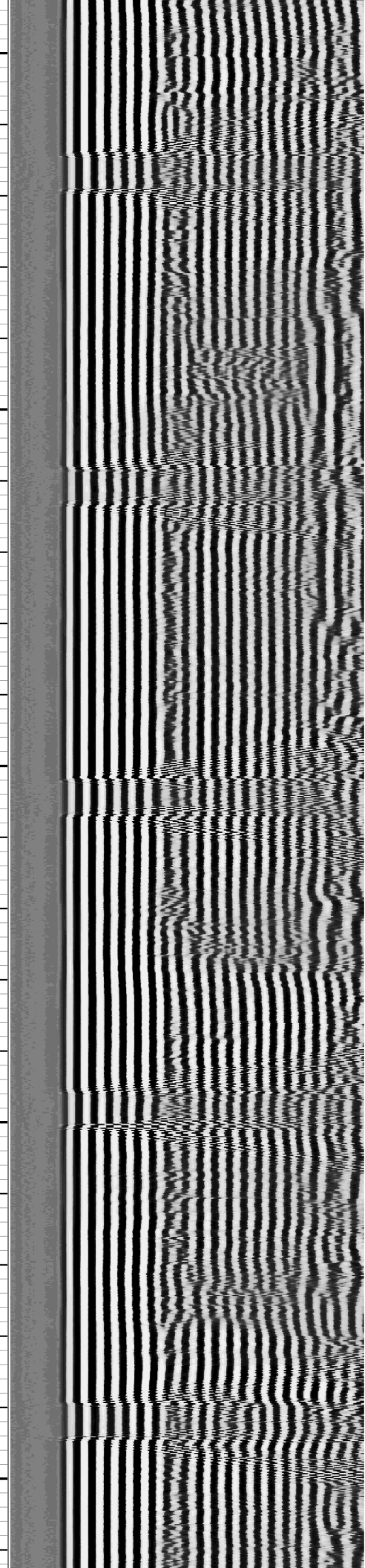
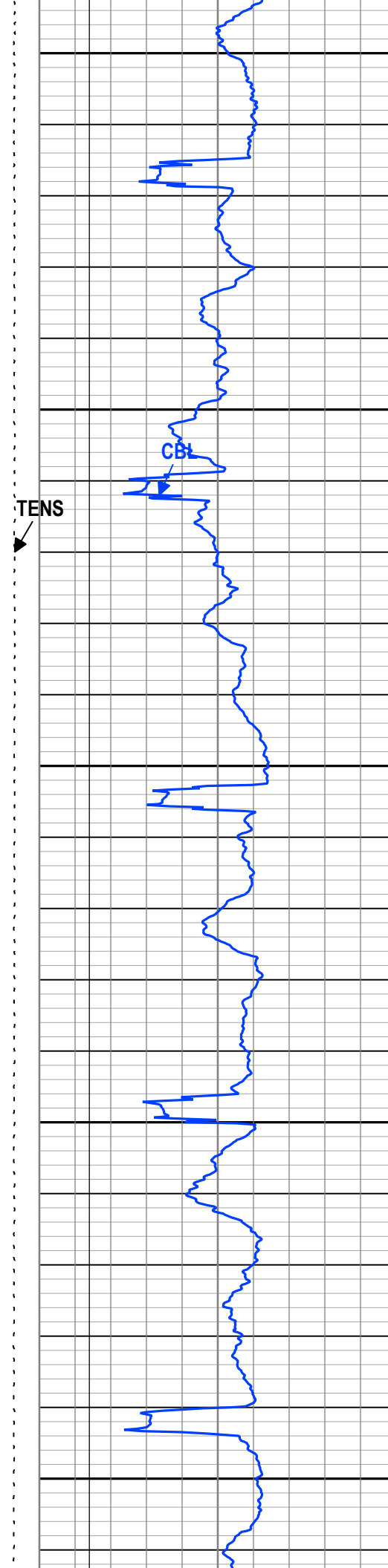
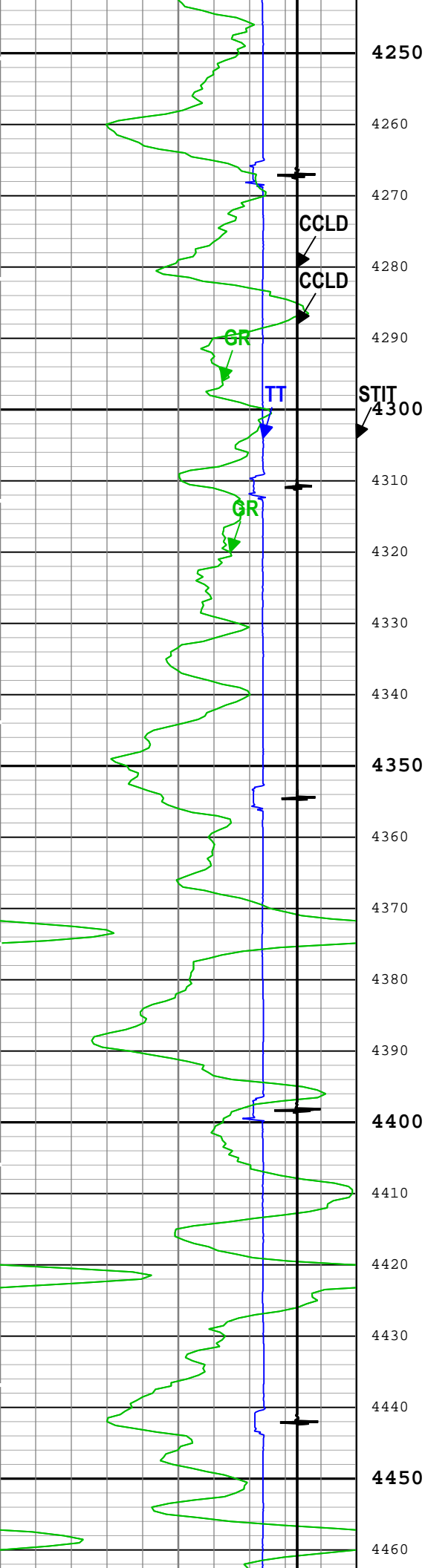


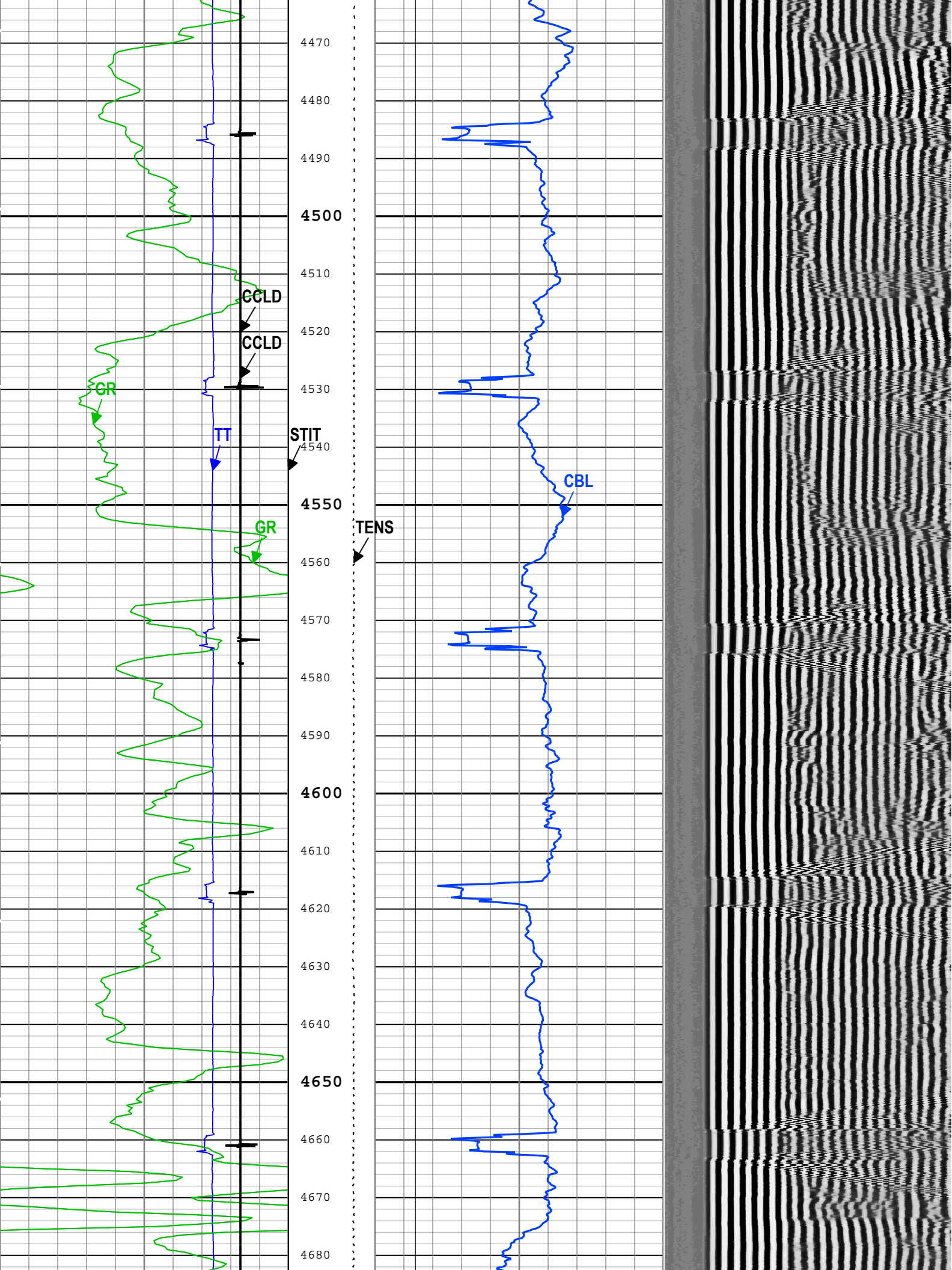


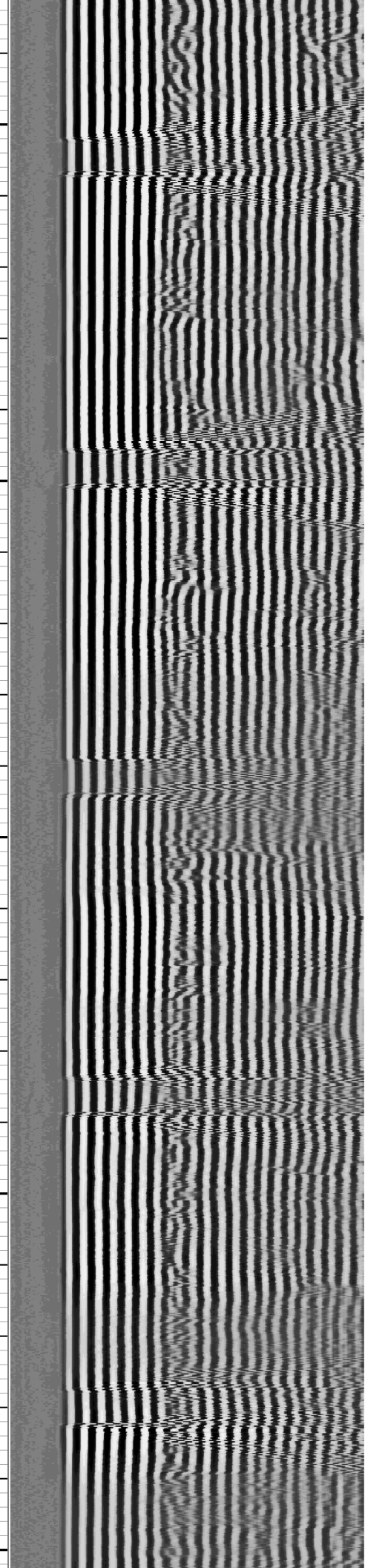
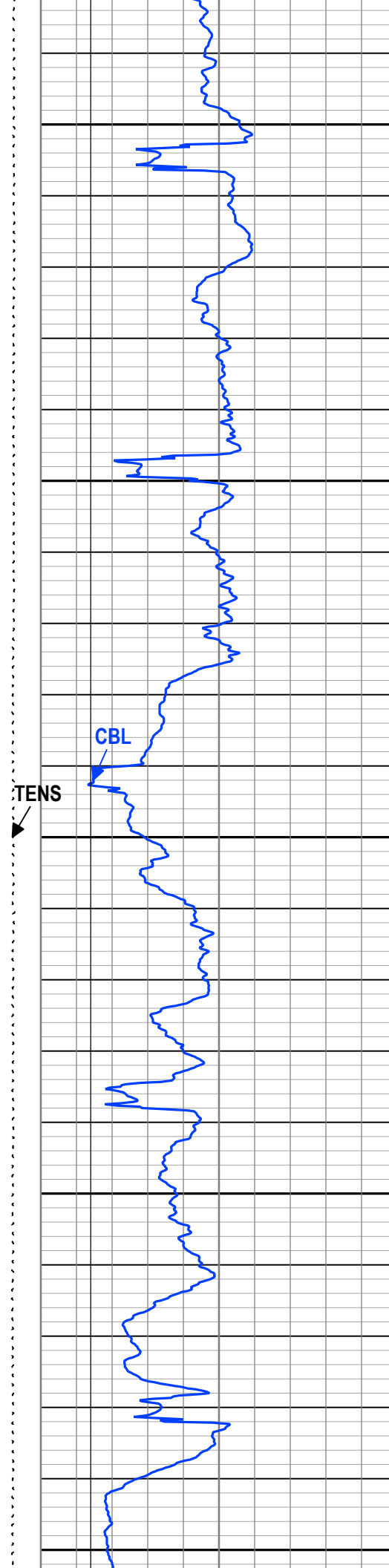
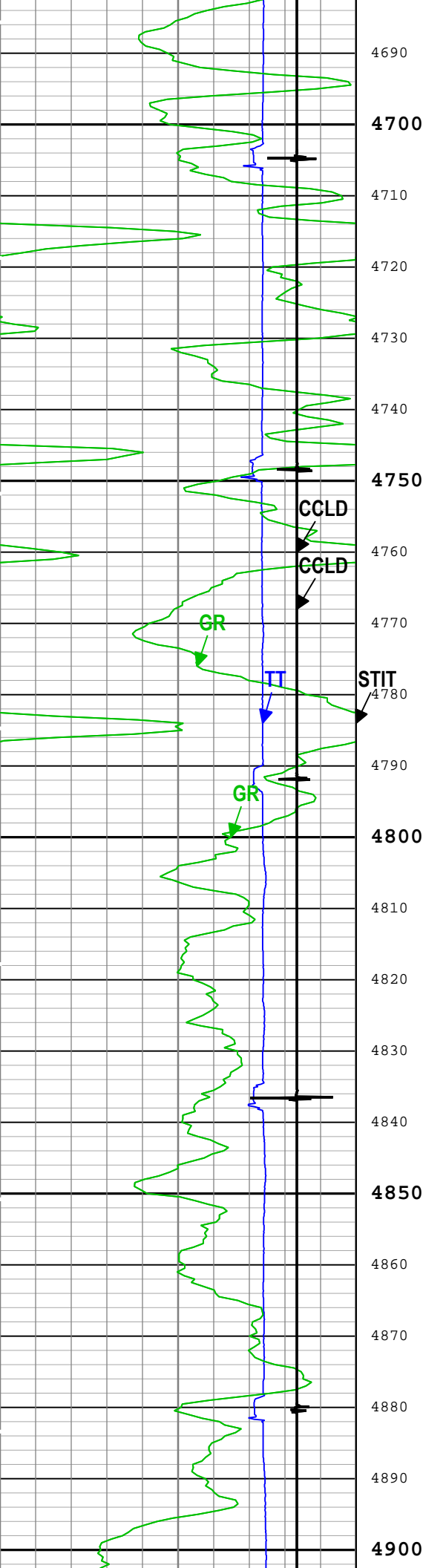


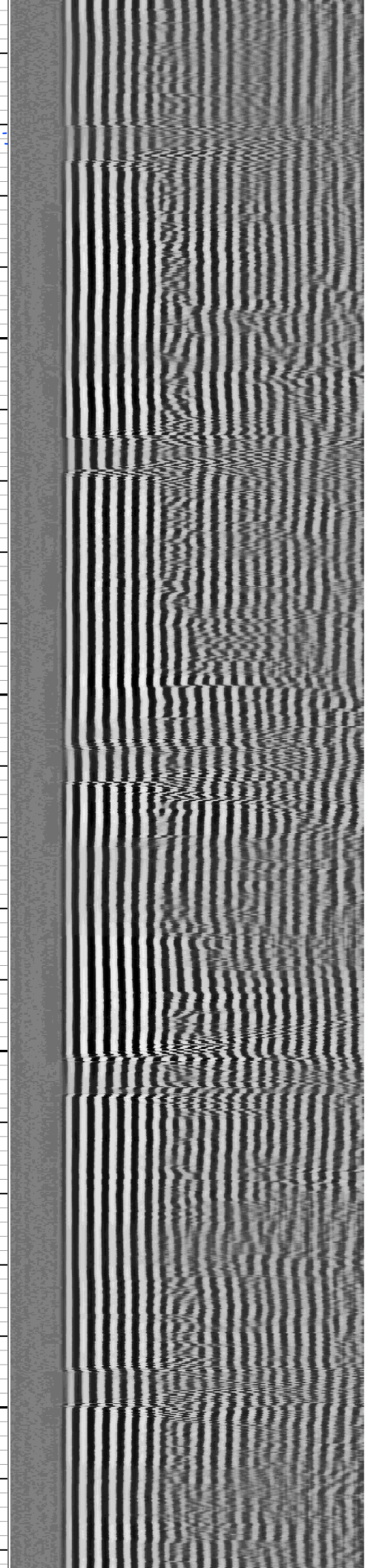
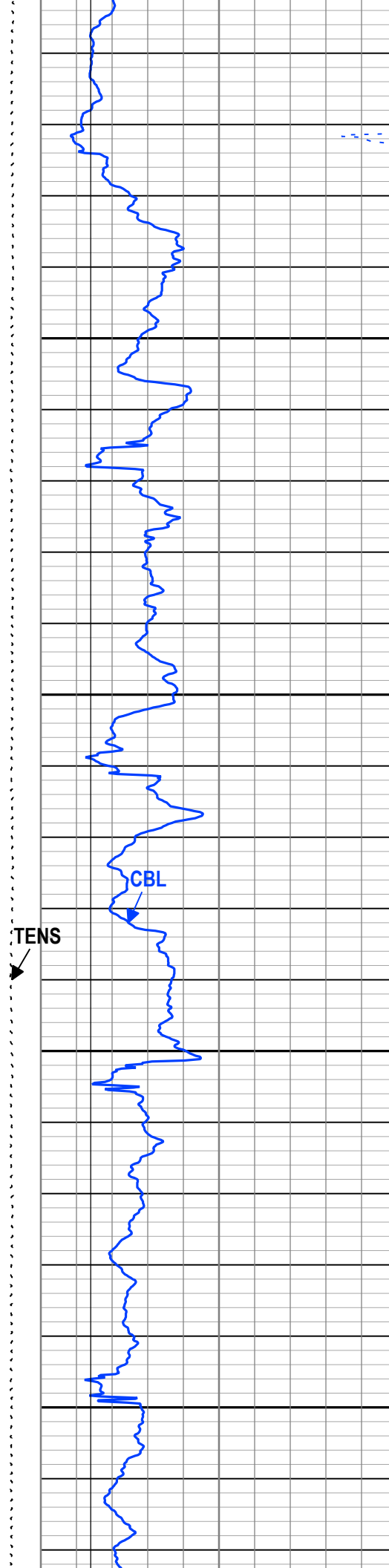
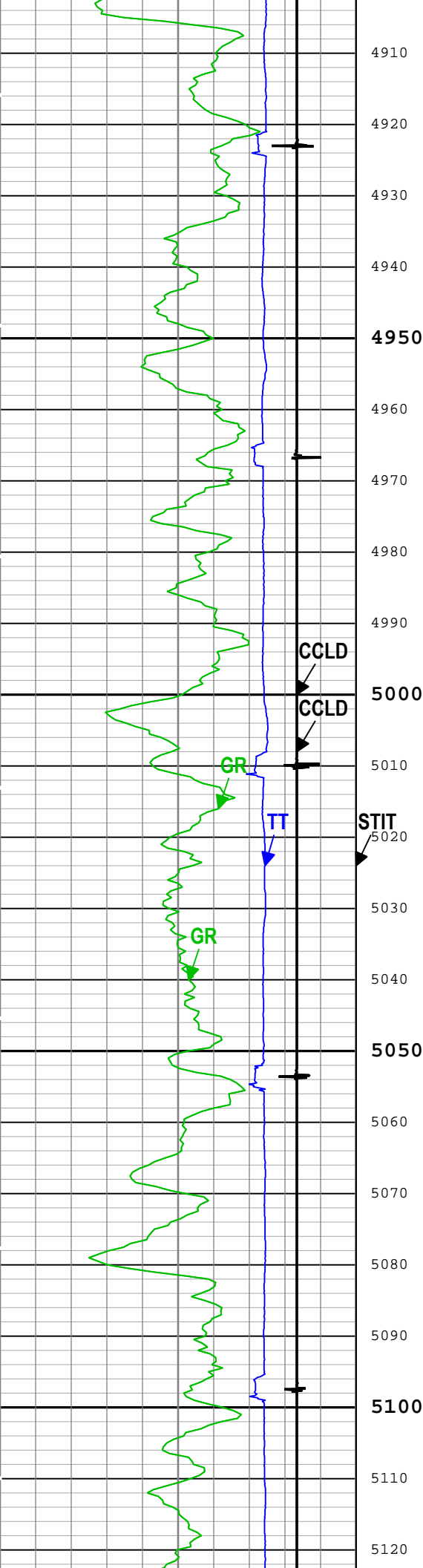


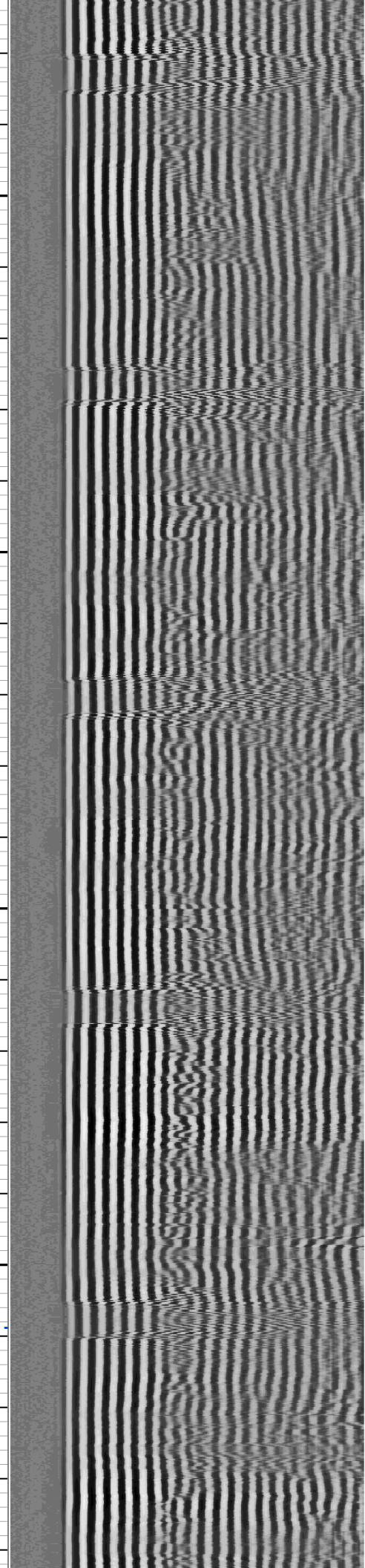
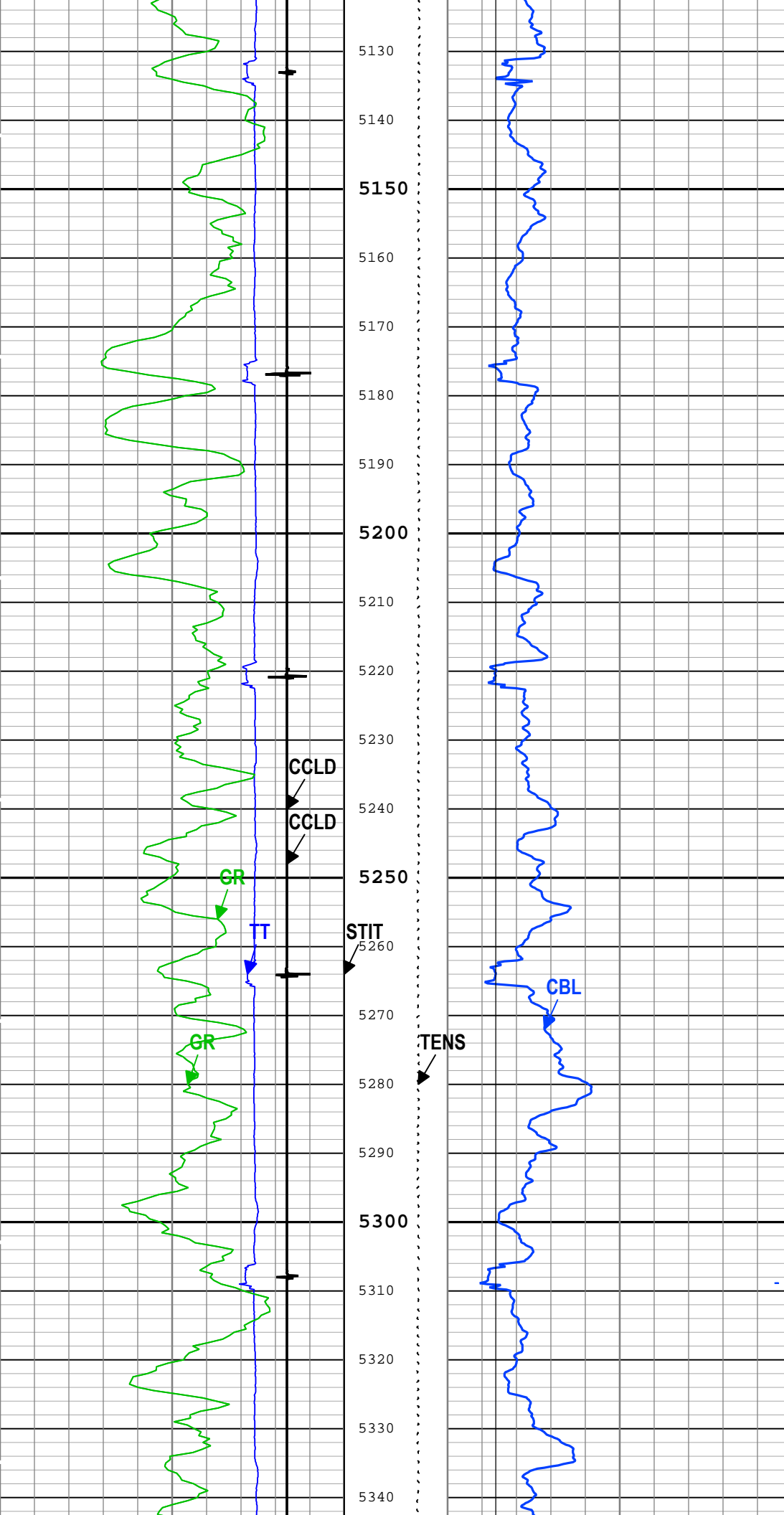


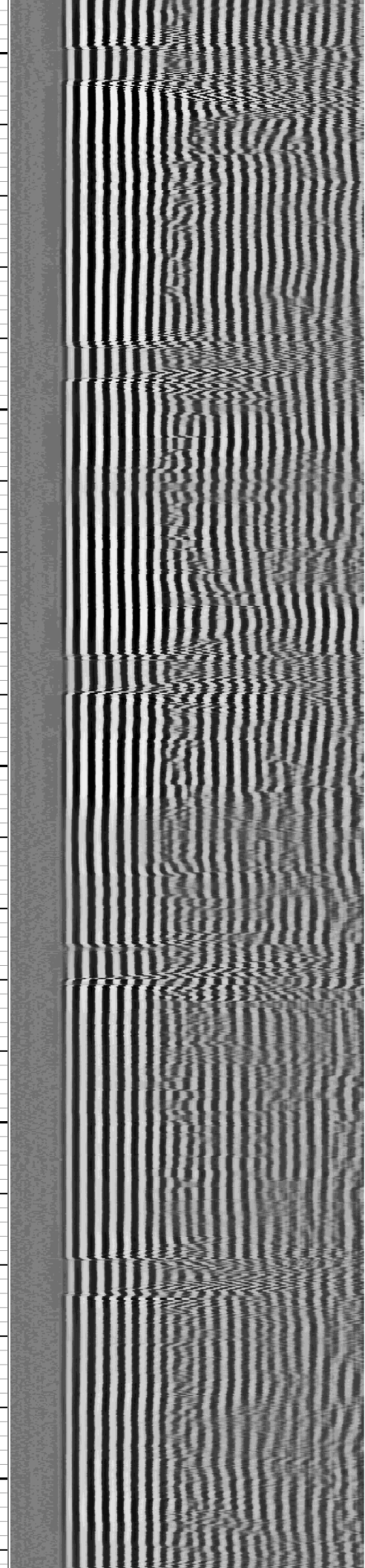
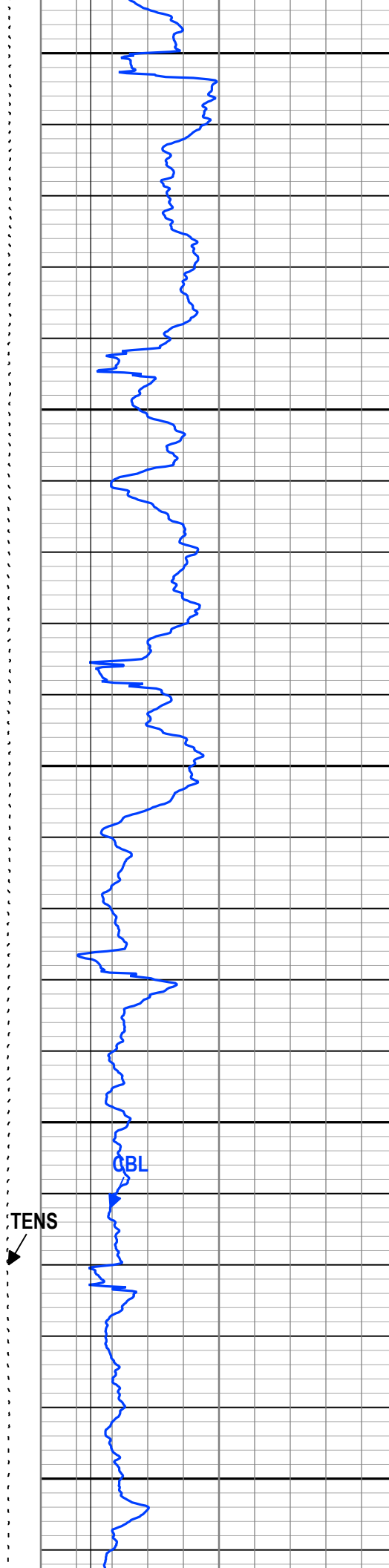
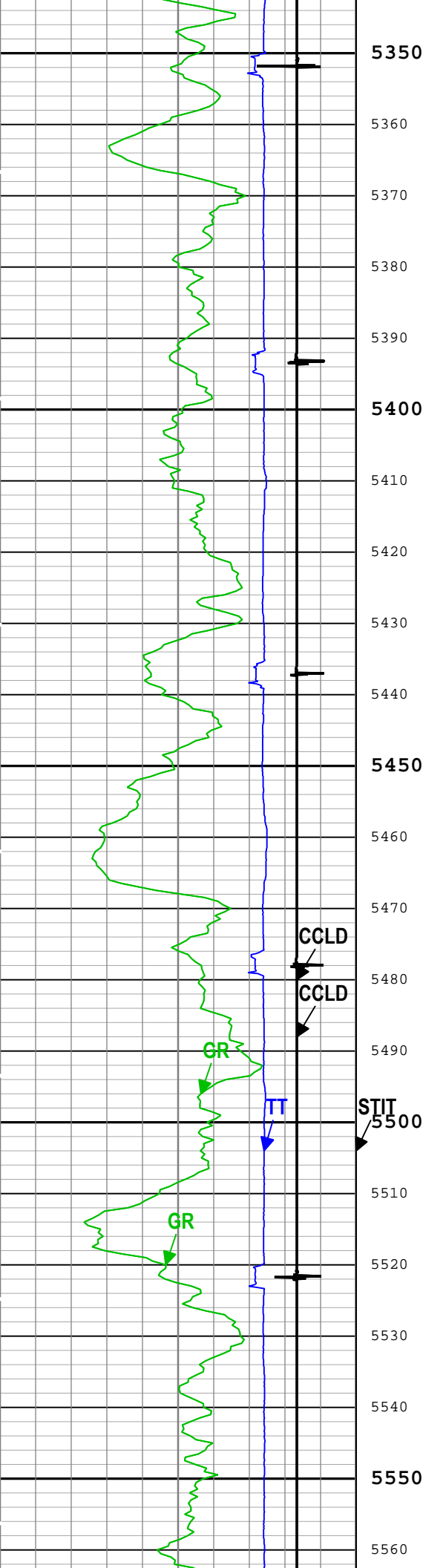


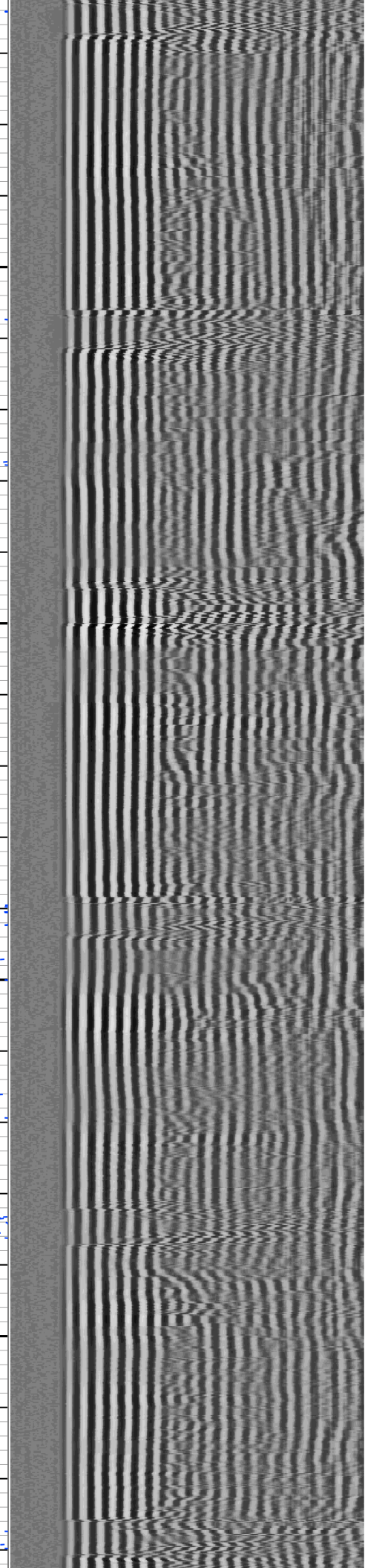
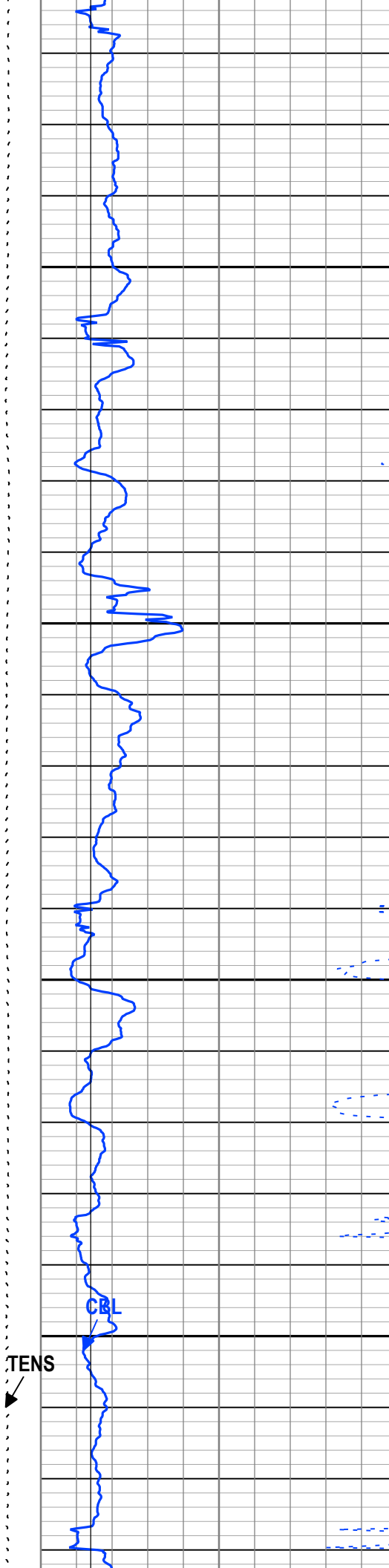
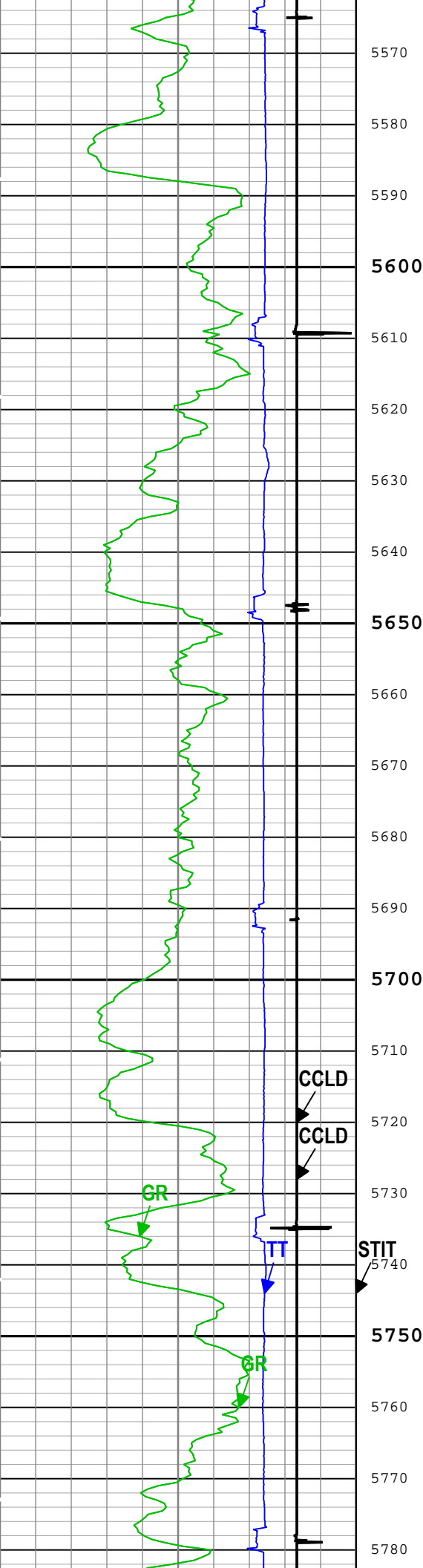


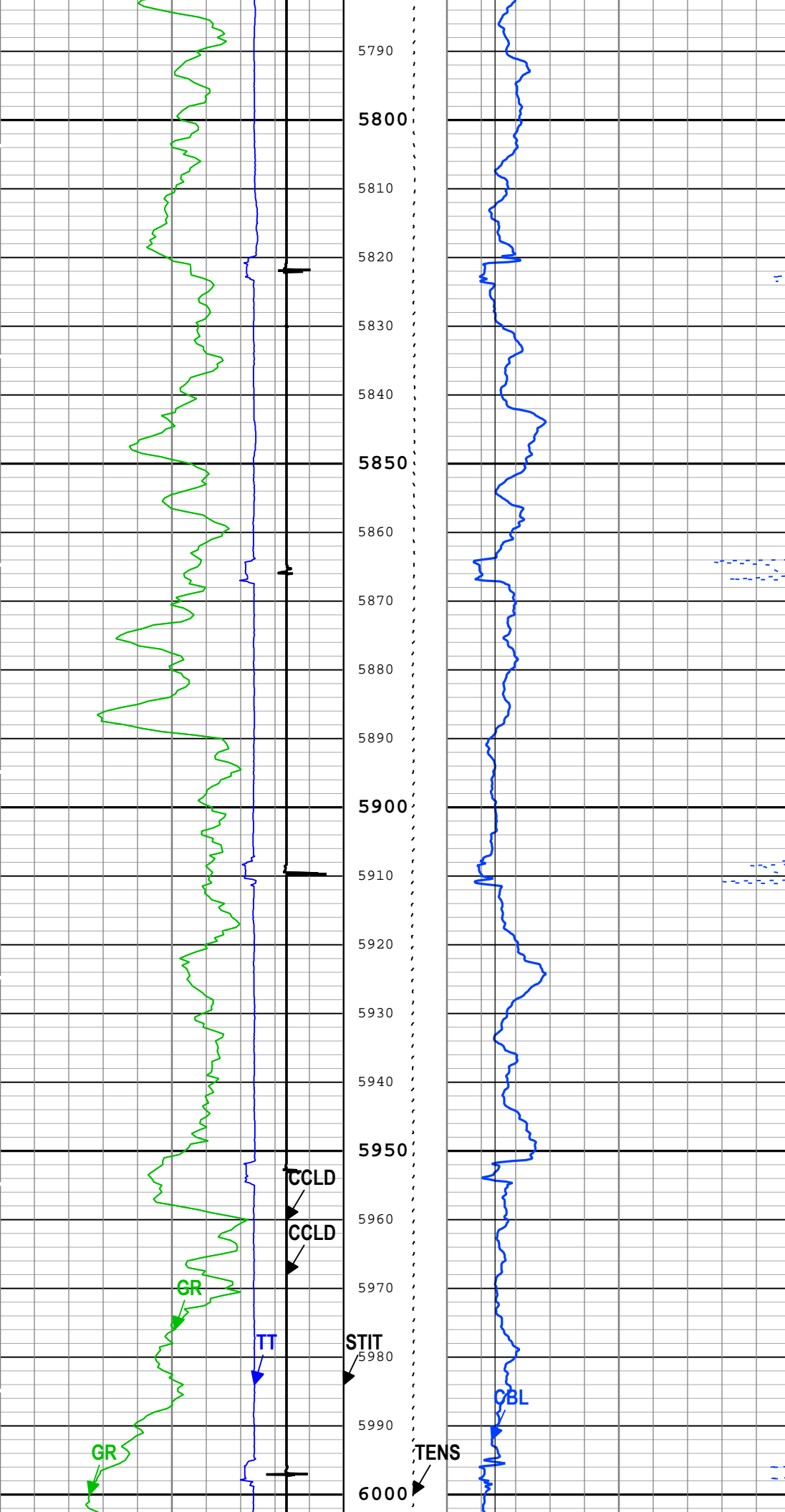


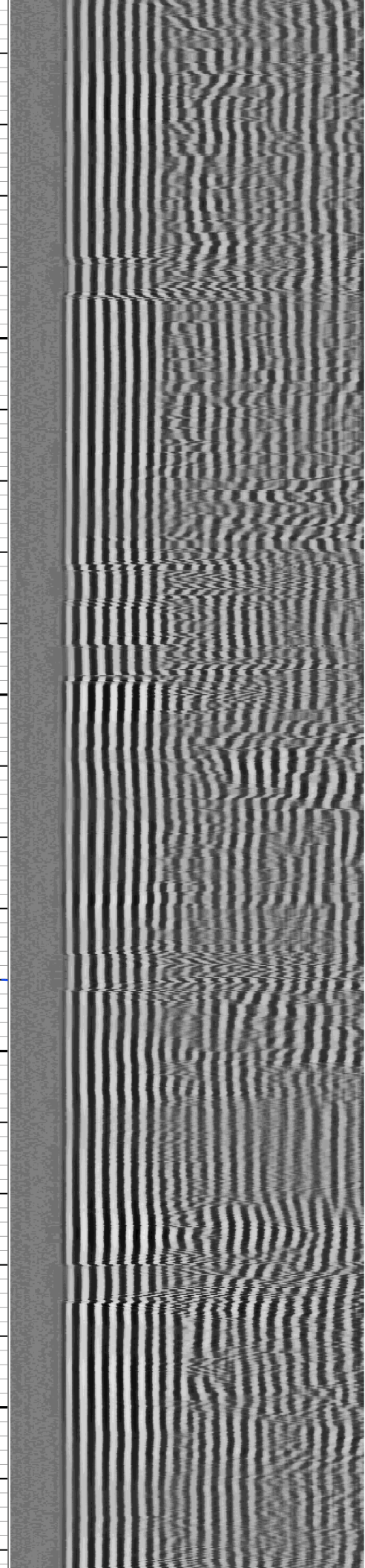
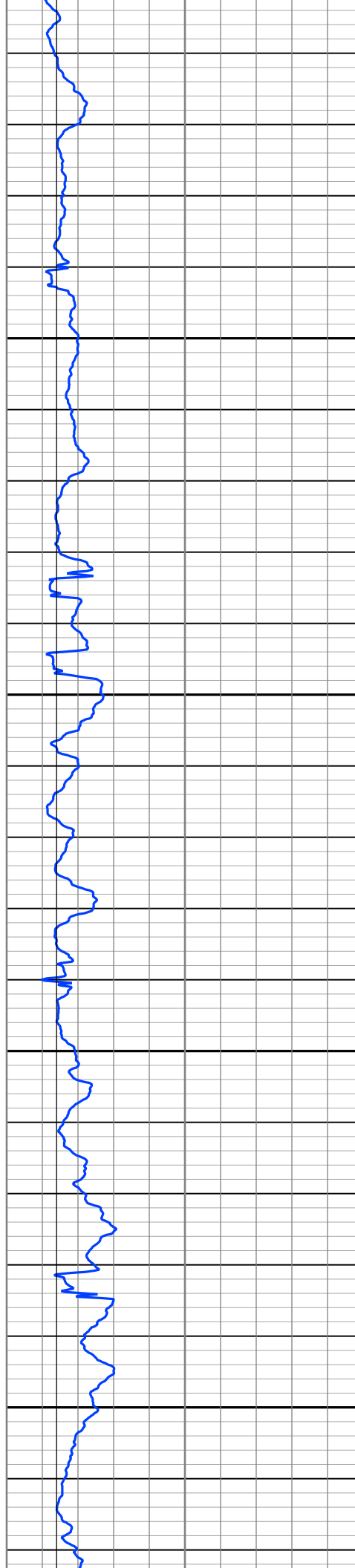
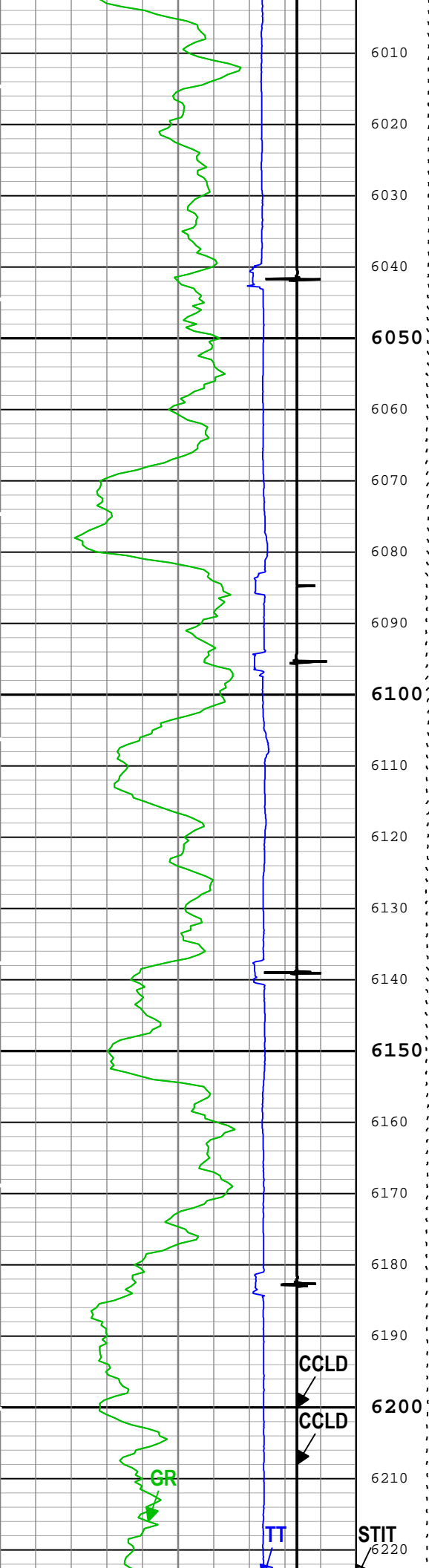


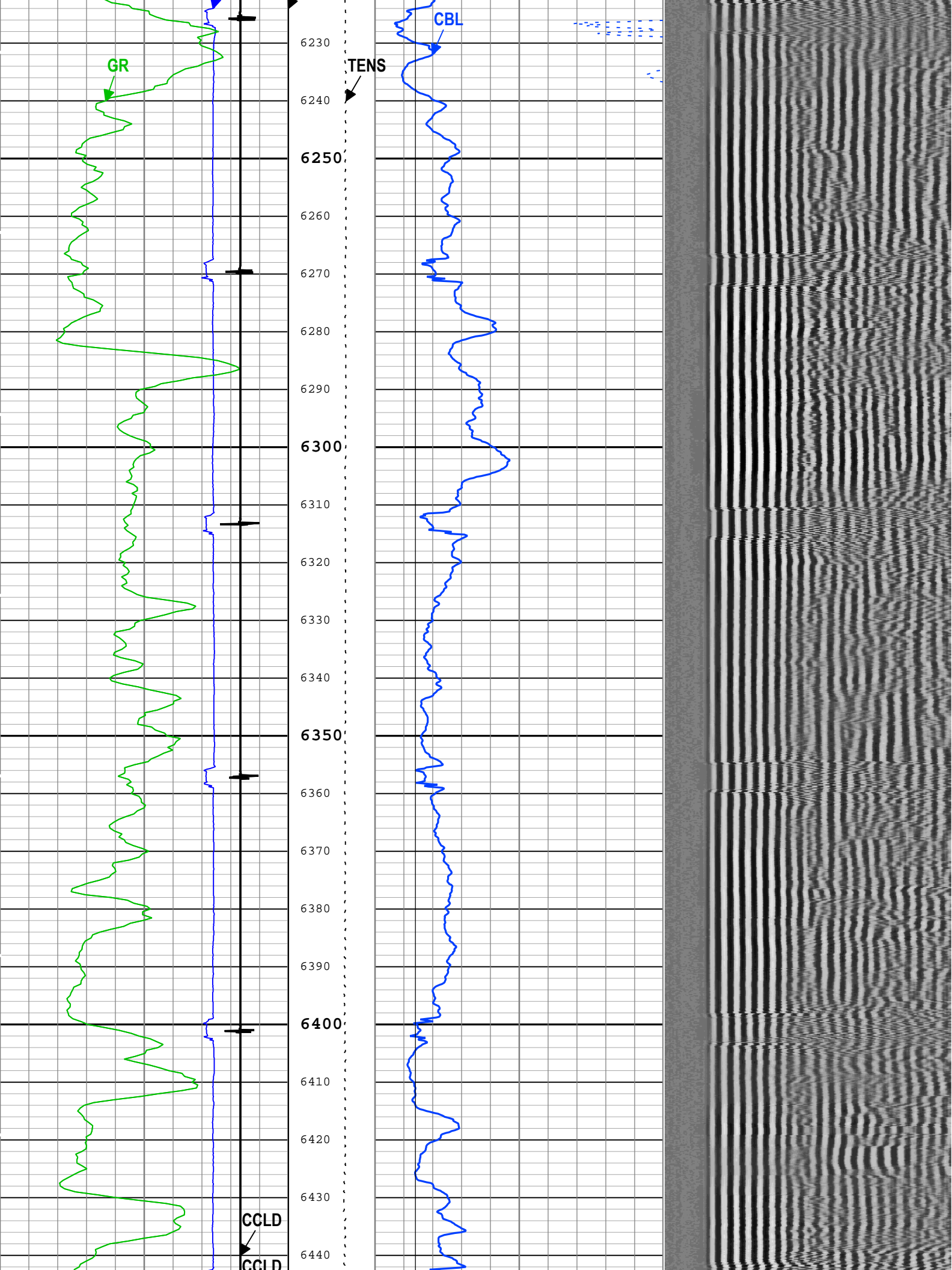


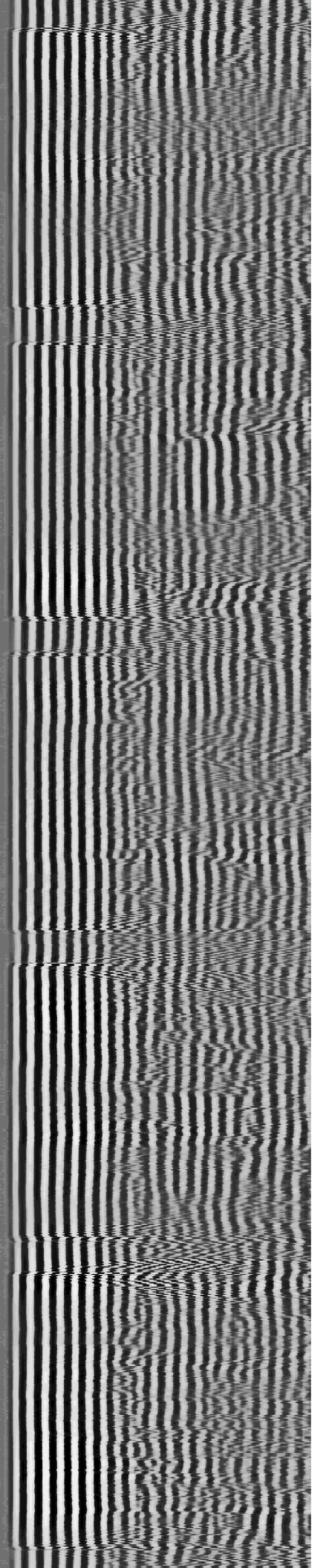
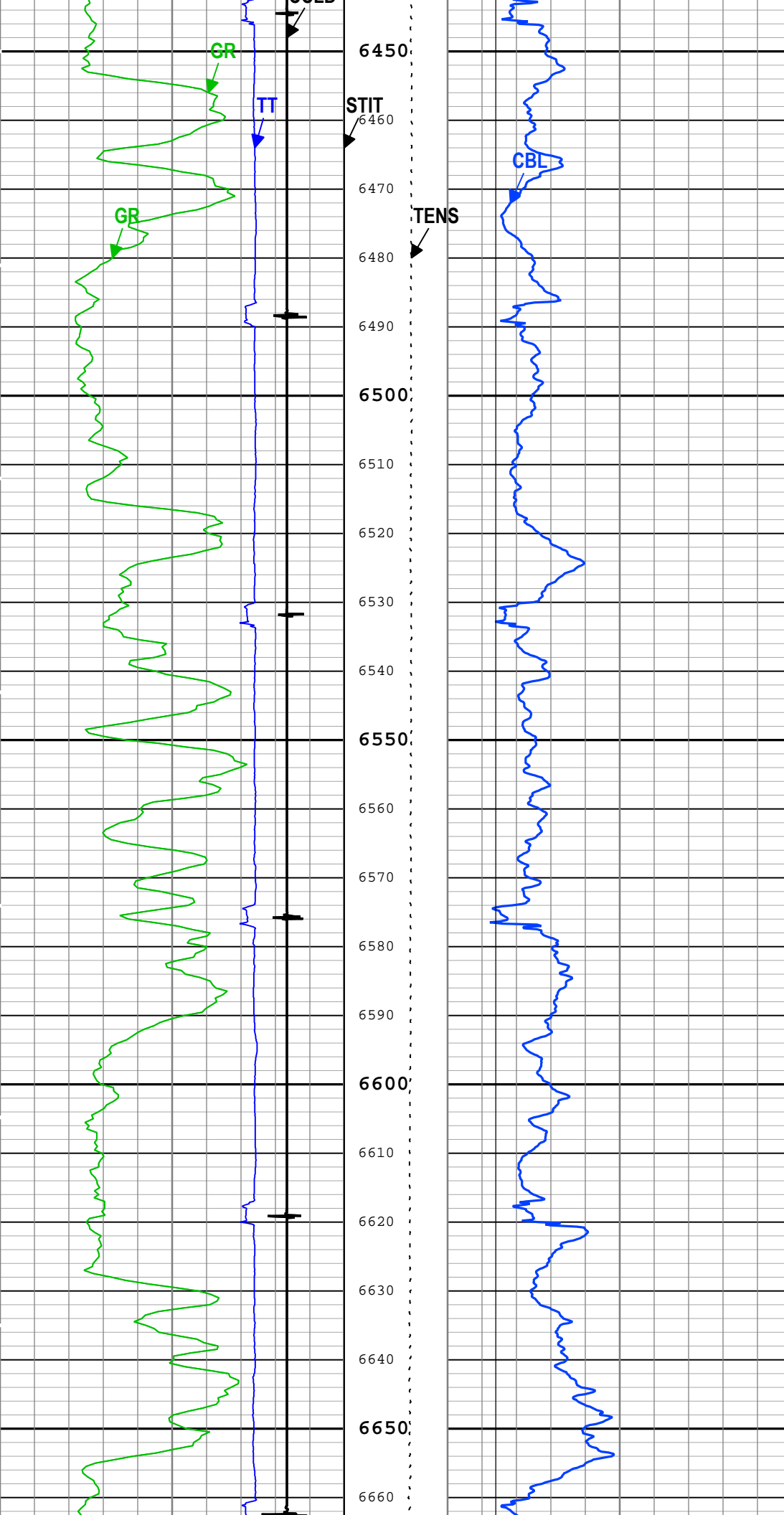


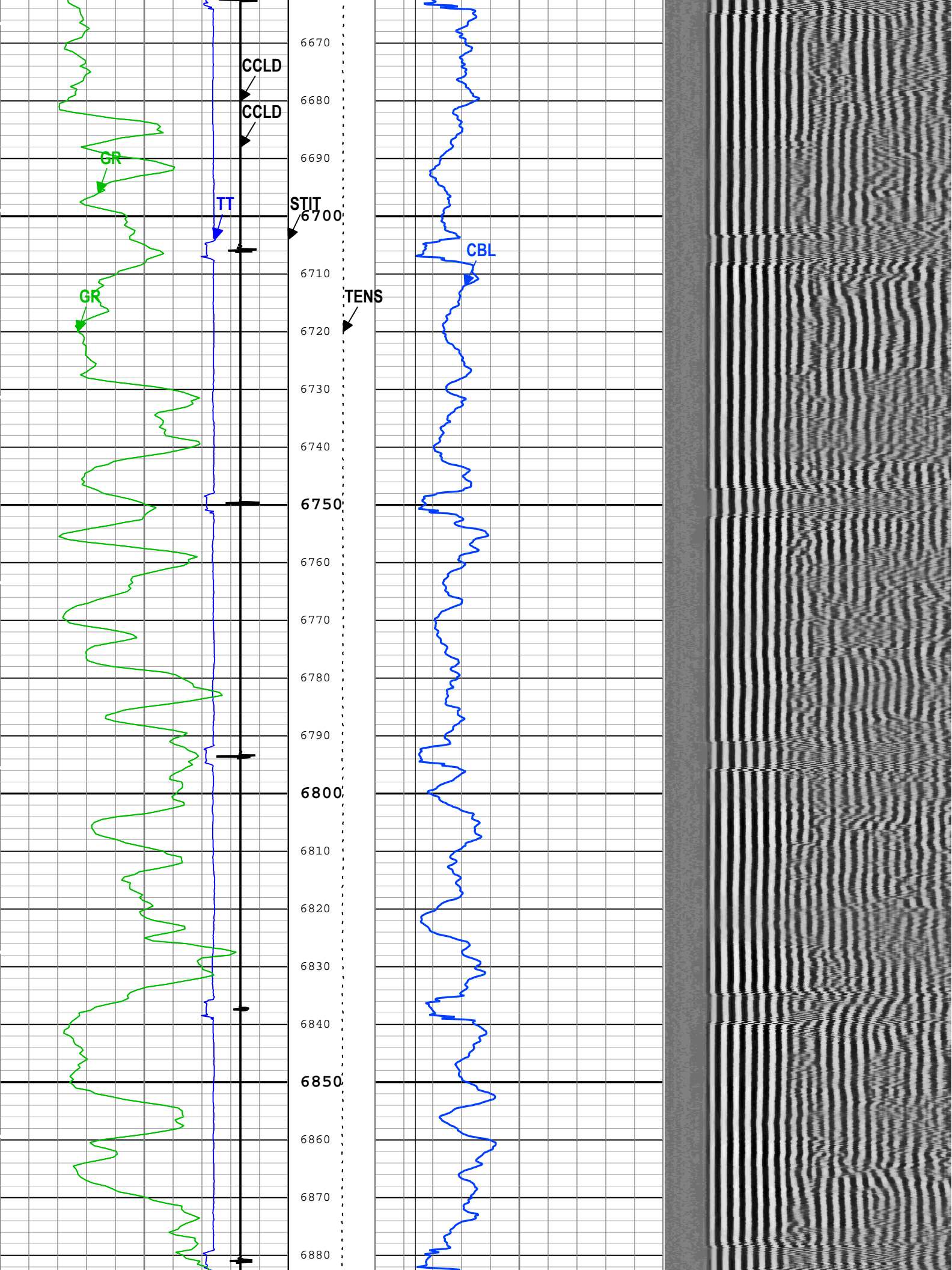


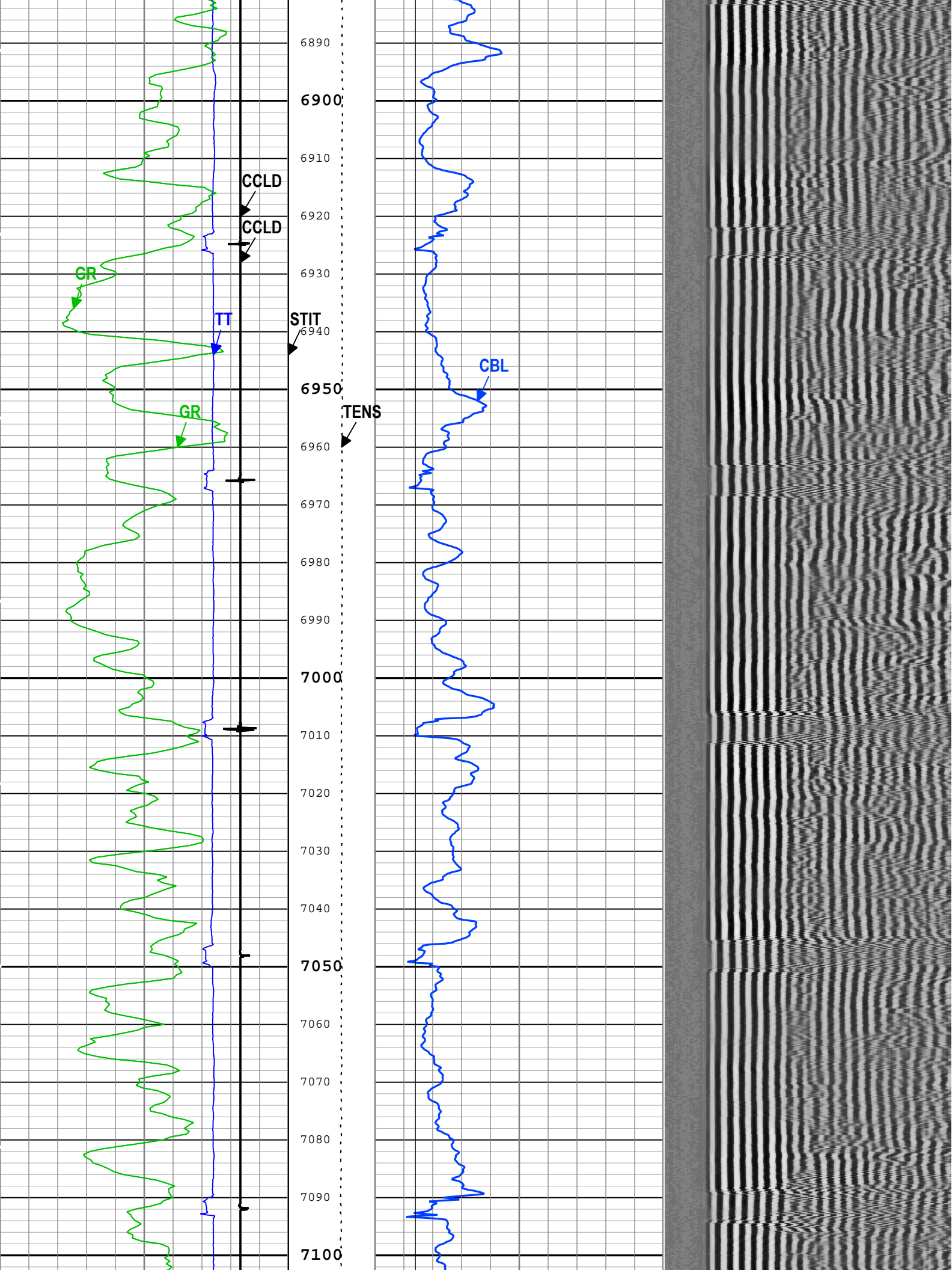


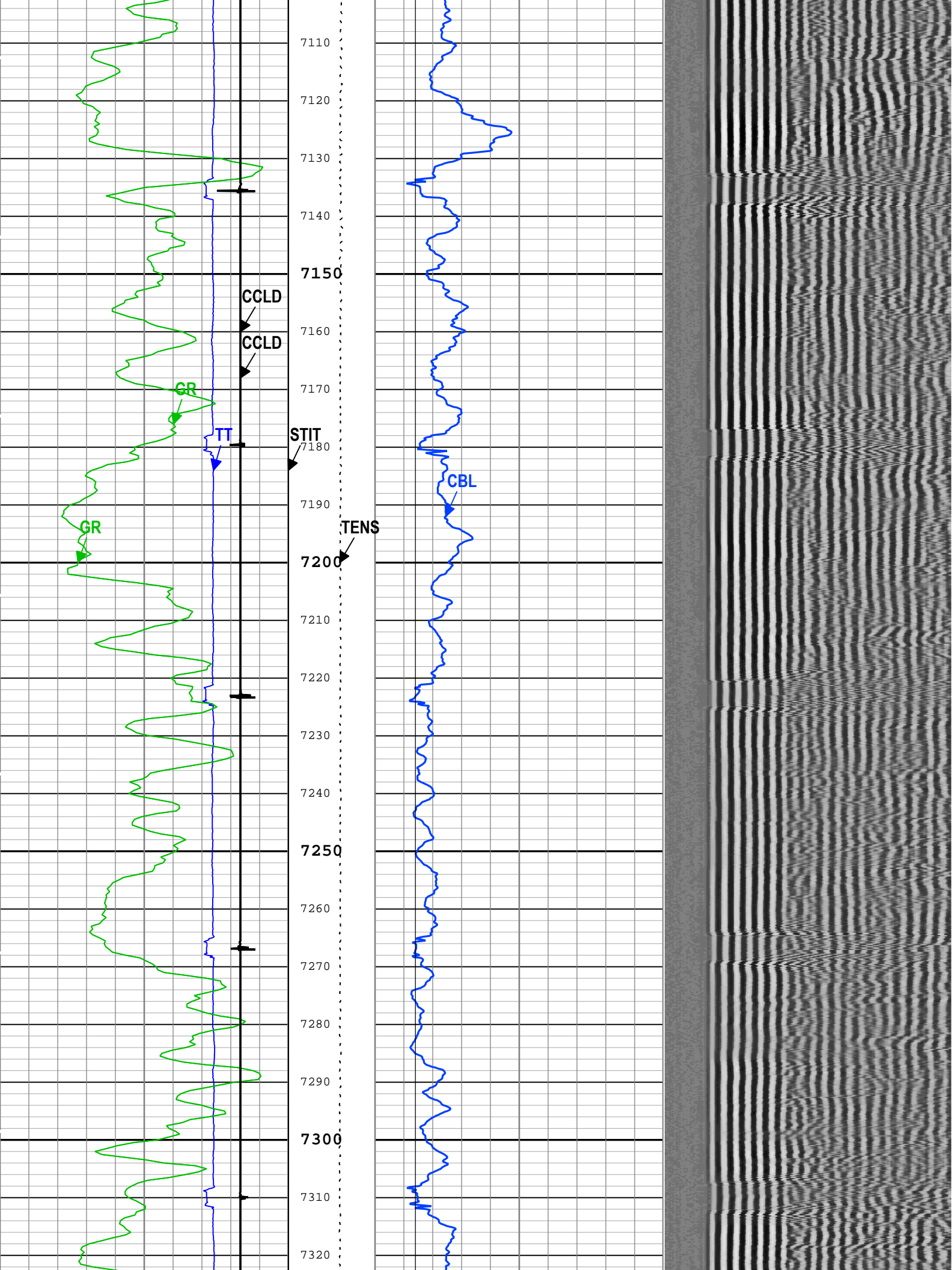


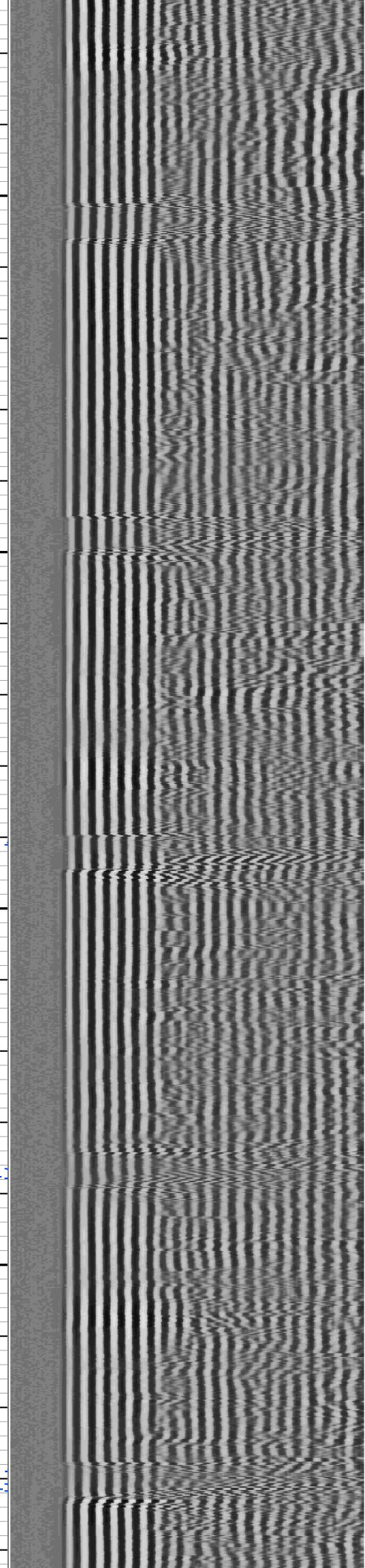
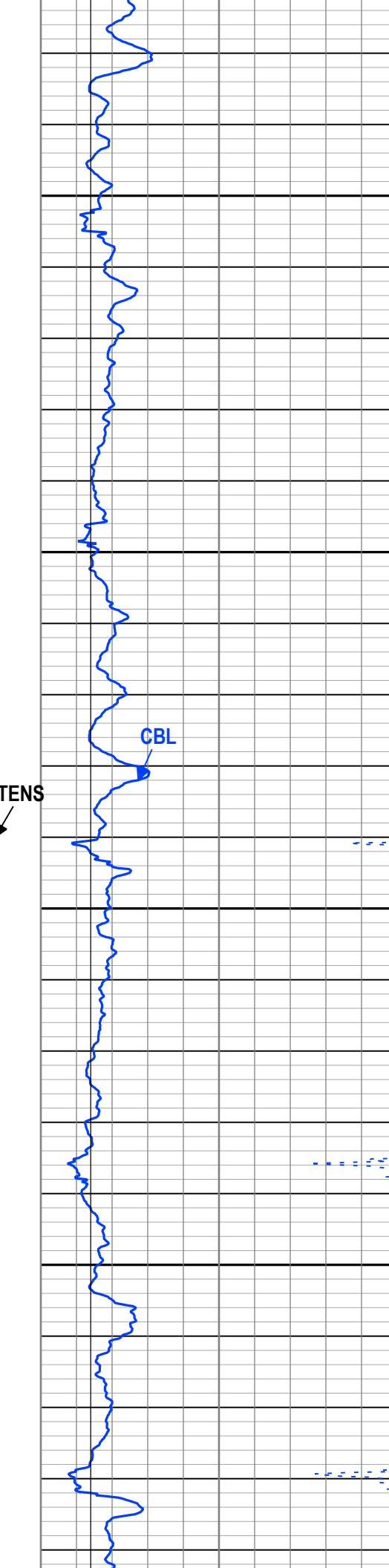
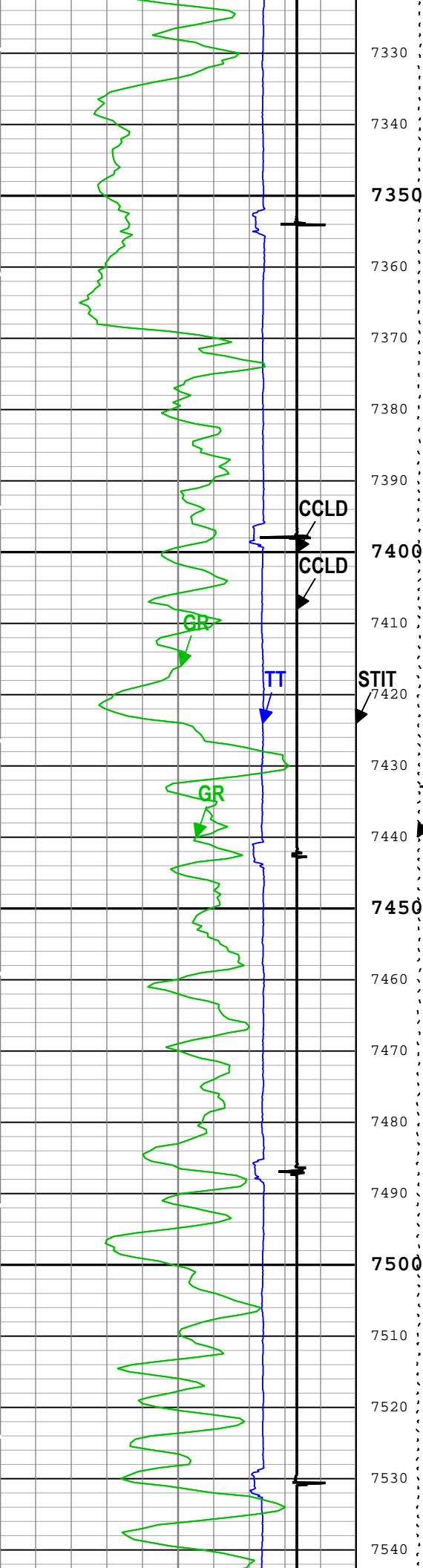


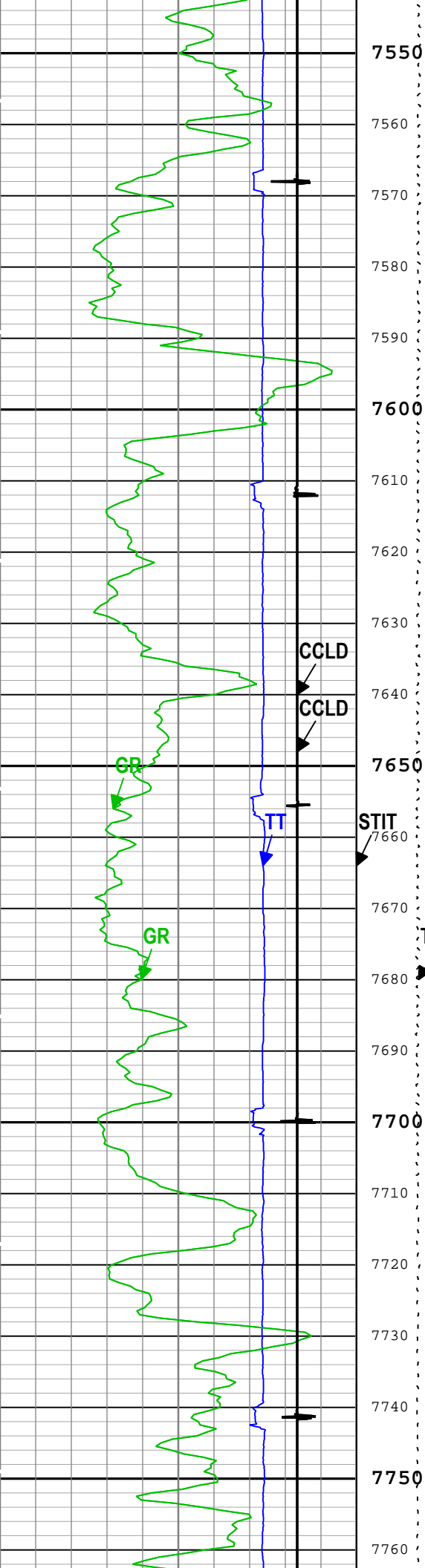












7550

7560

7570

7580

7590

7600

7610

7620

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CCLD

7640

CCLD

7650

TI

STIT

7660

7670

GR

TENS

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7700

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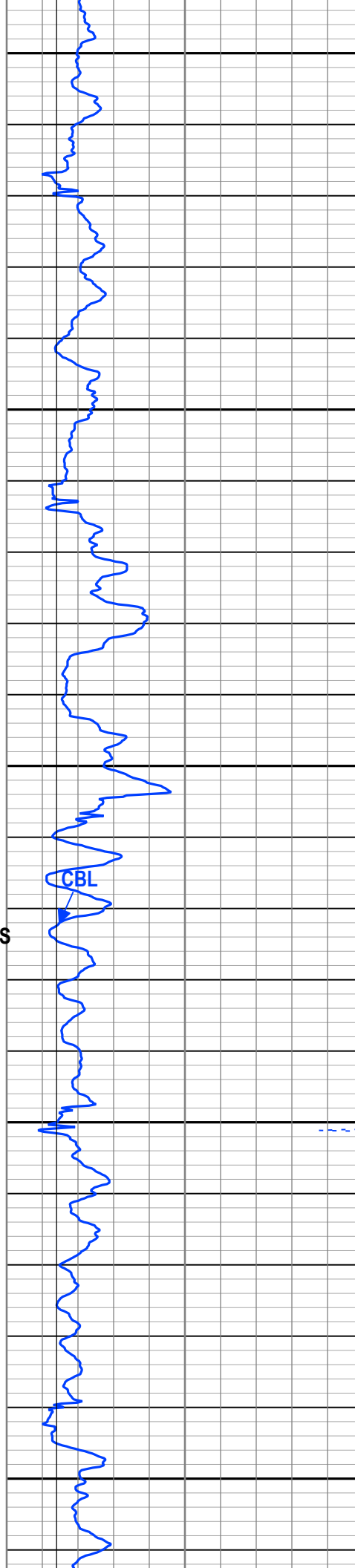
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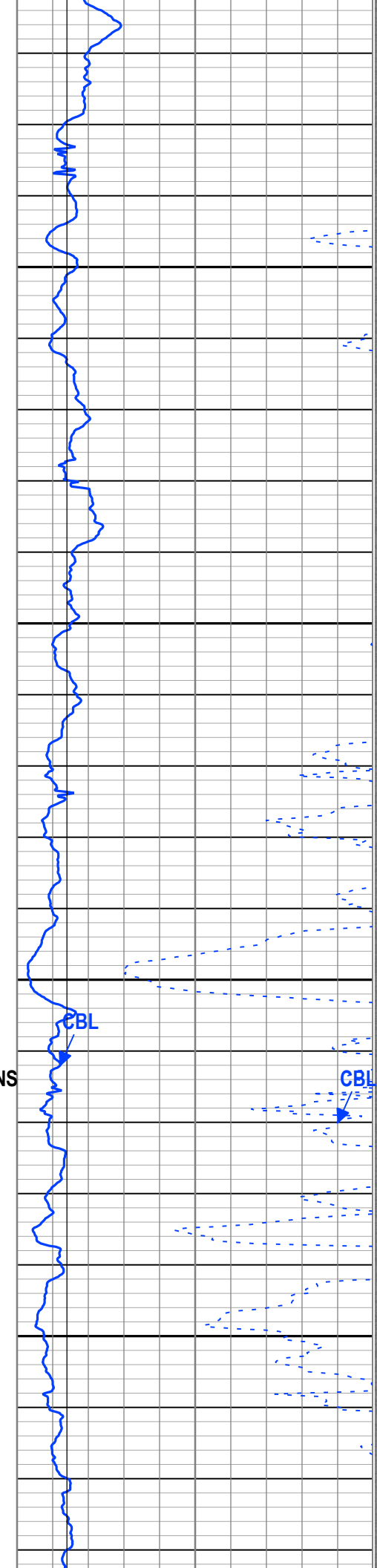
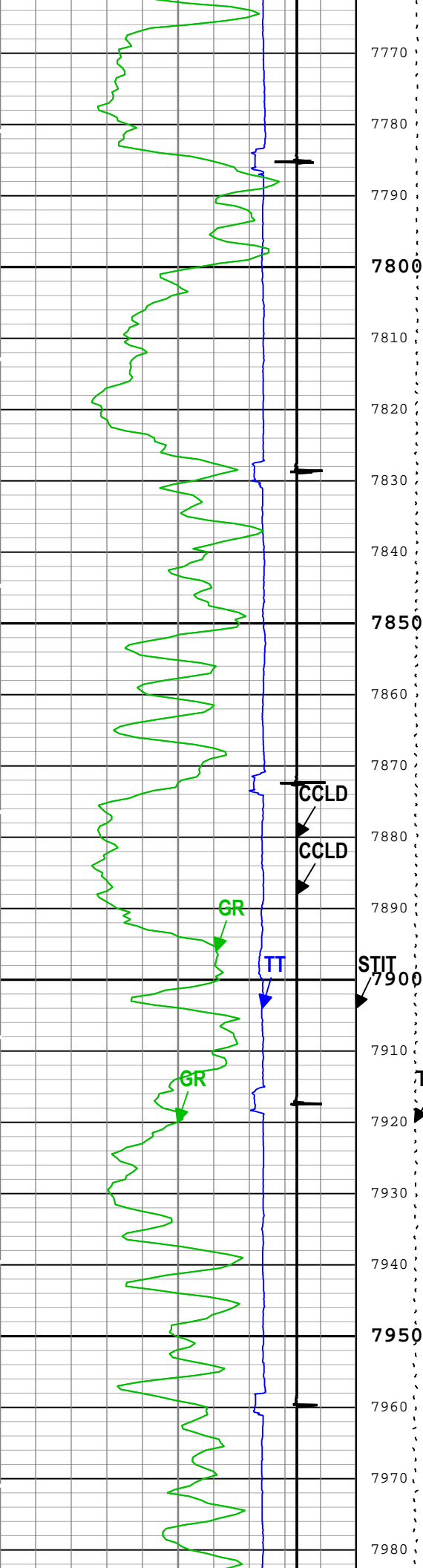
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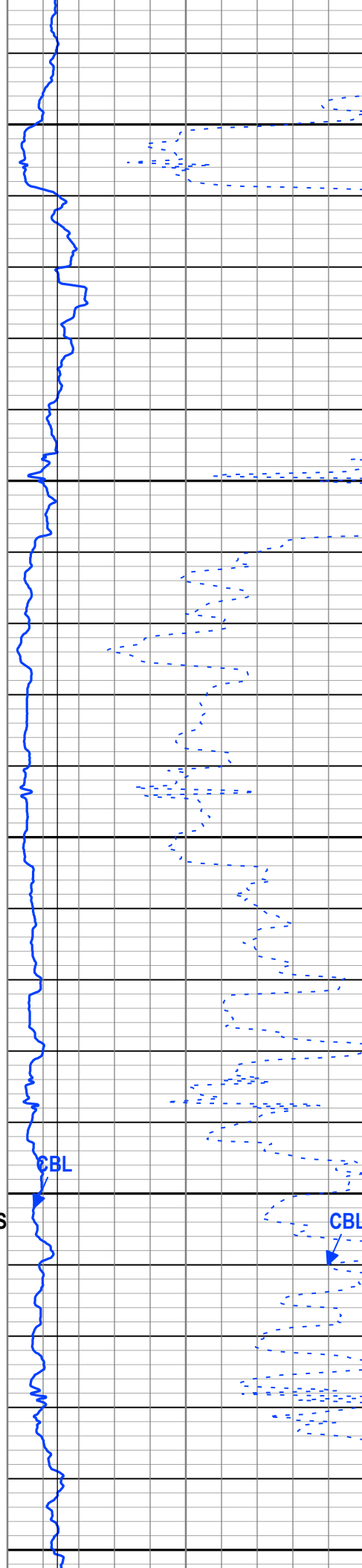
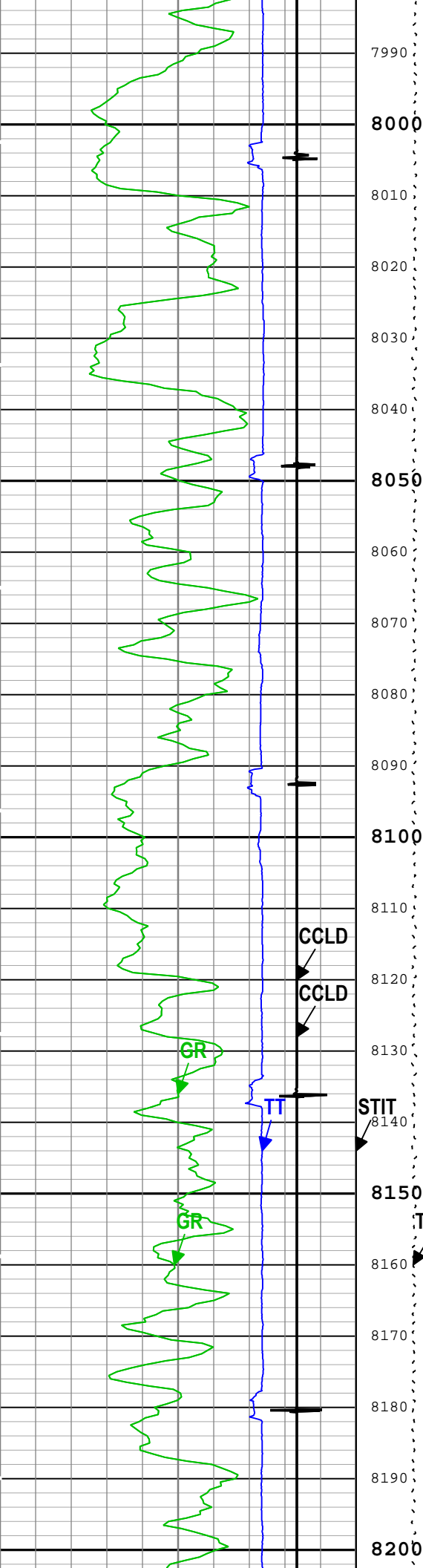
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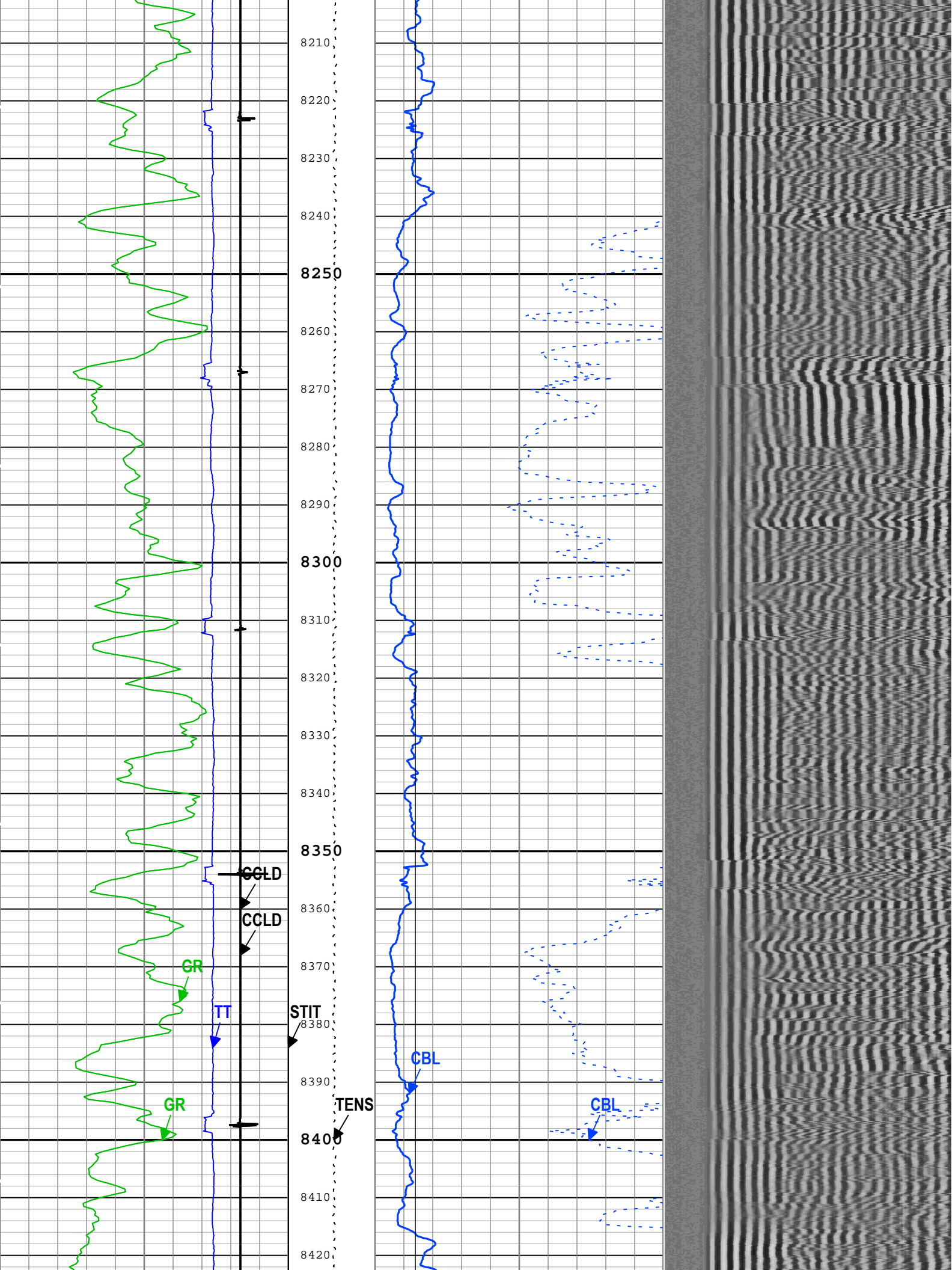
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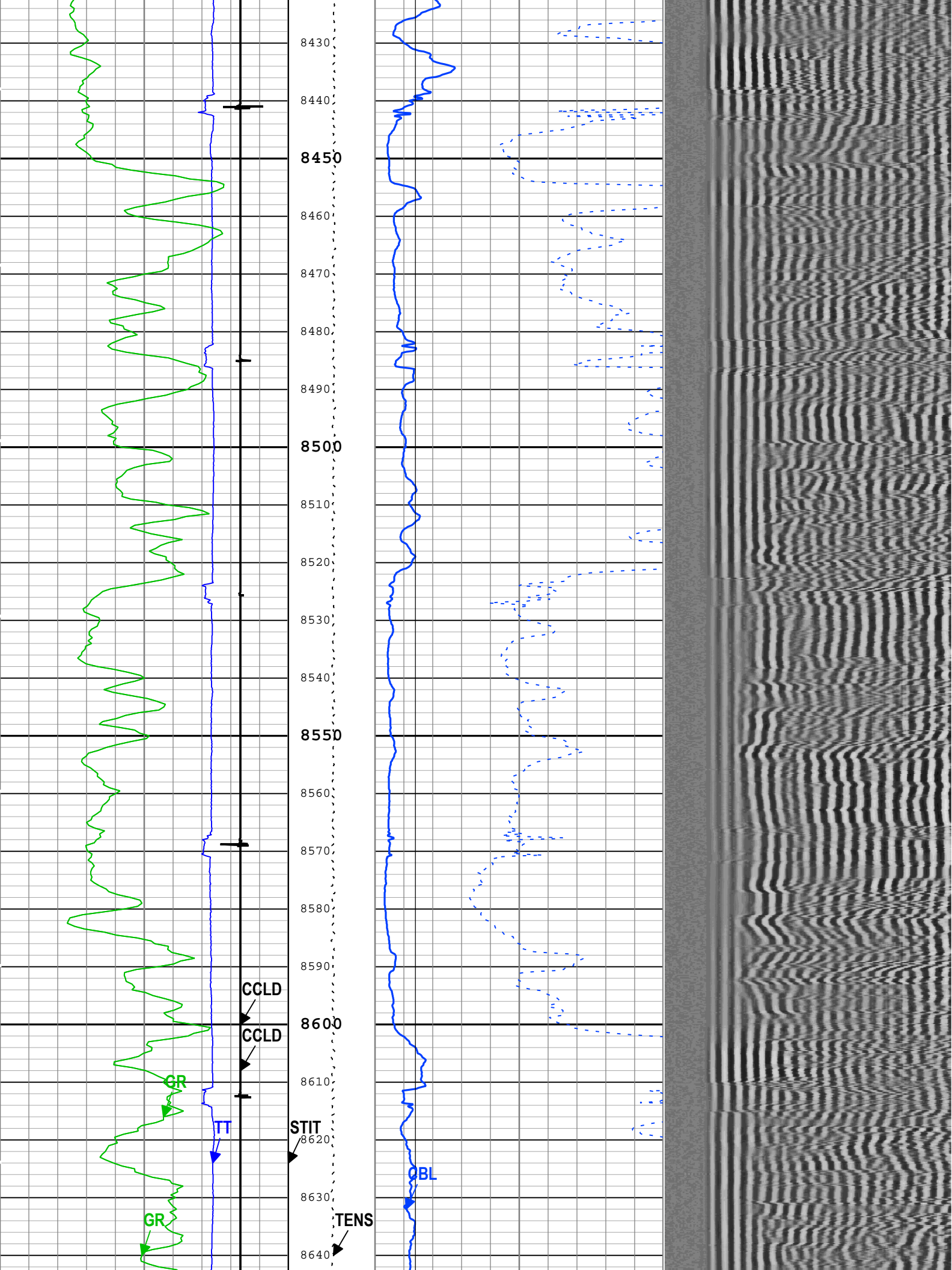


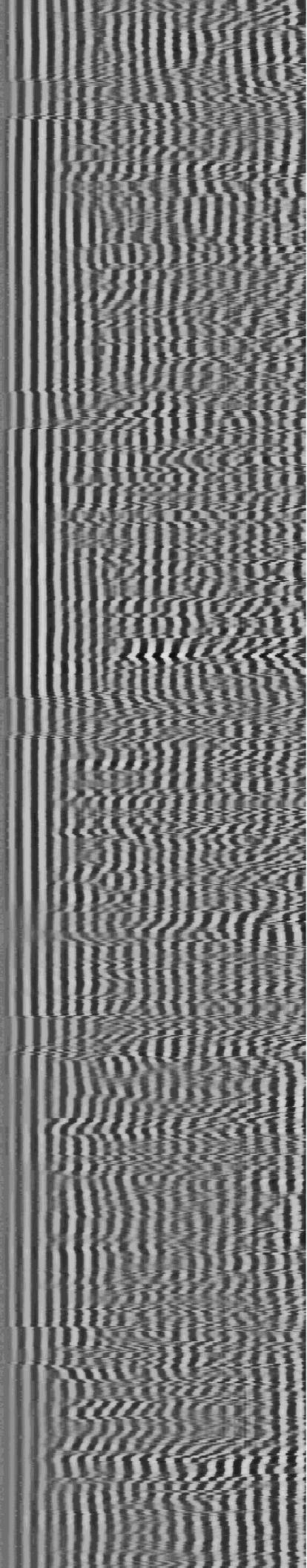
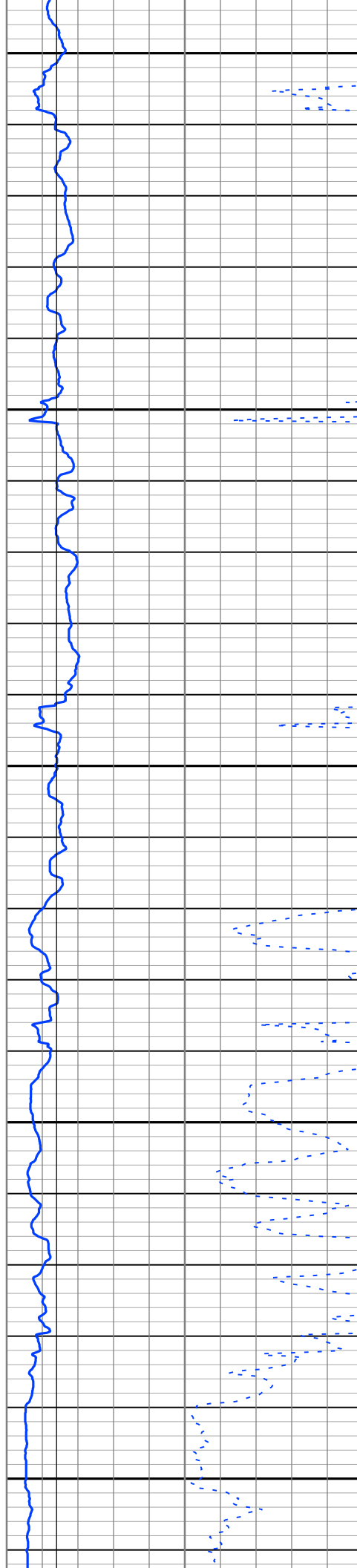
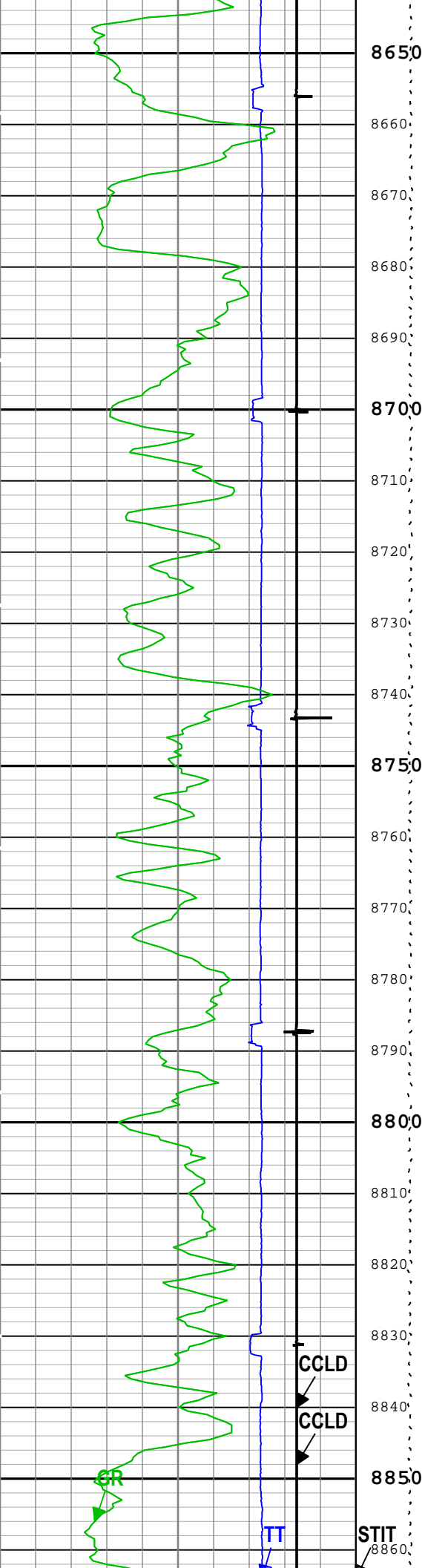
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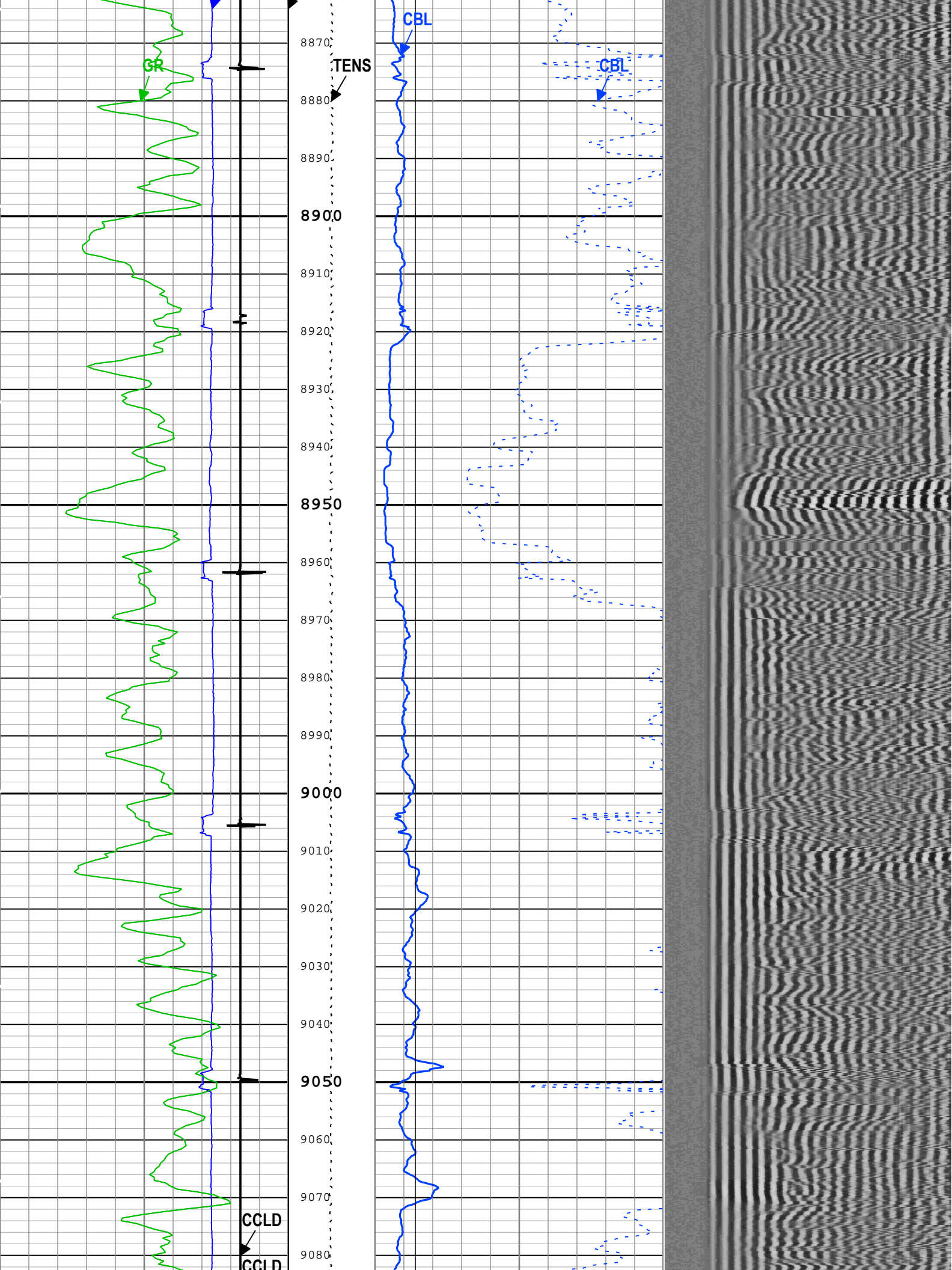


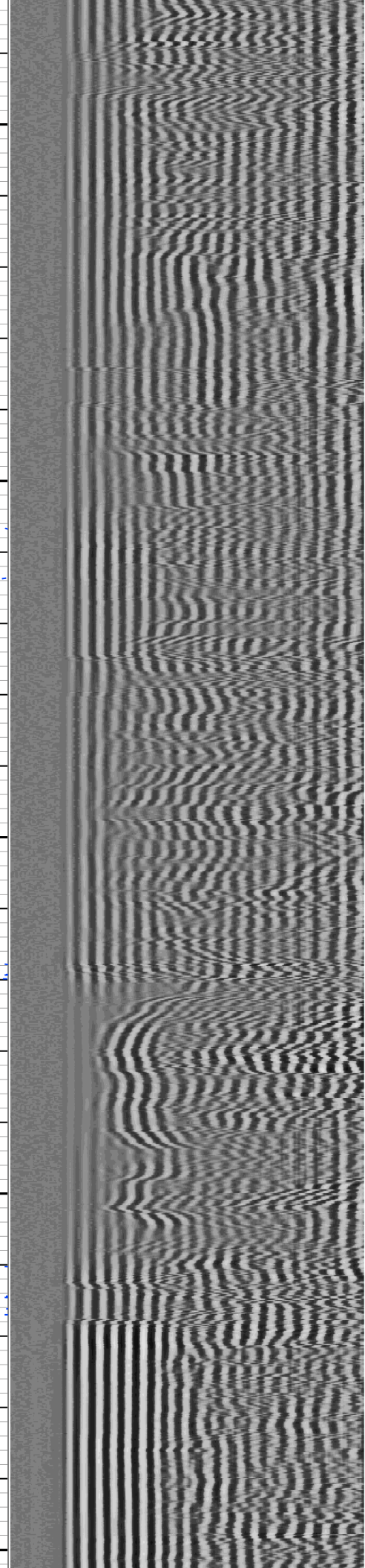
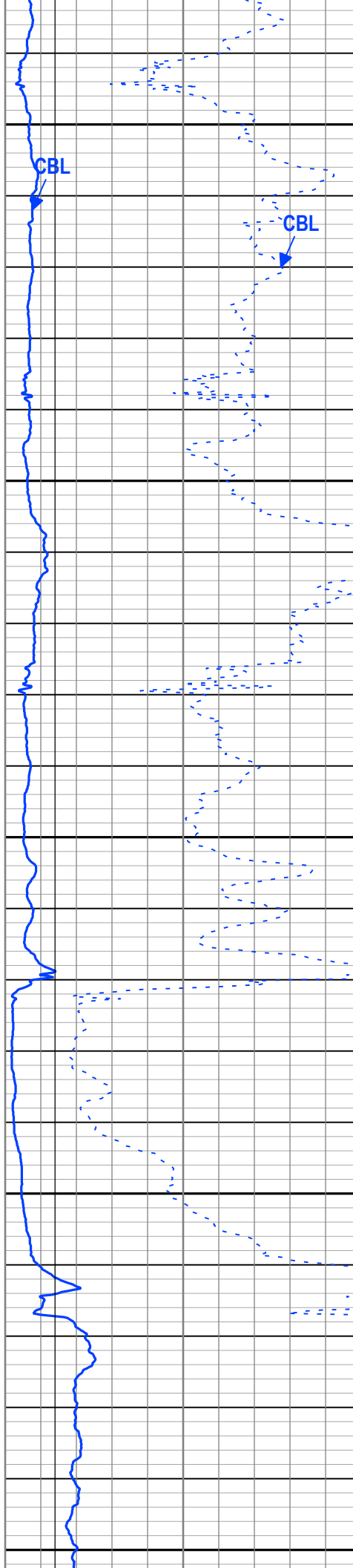
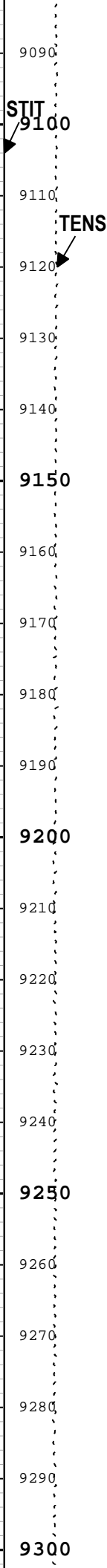
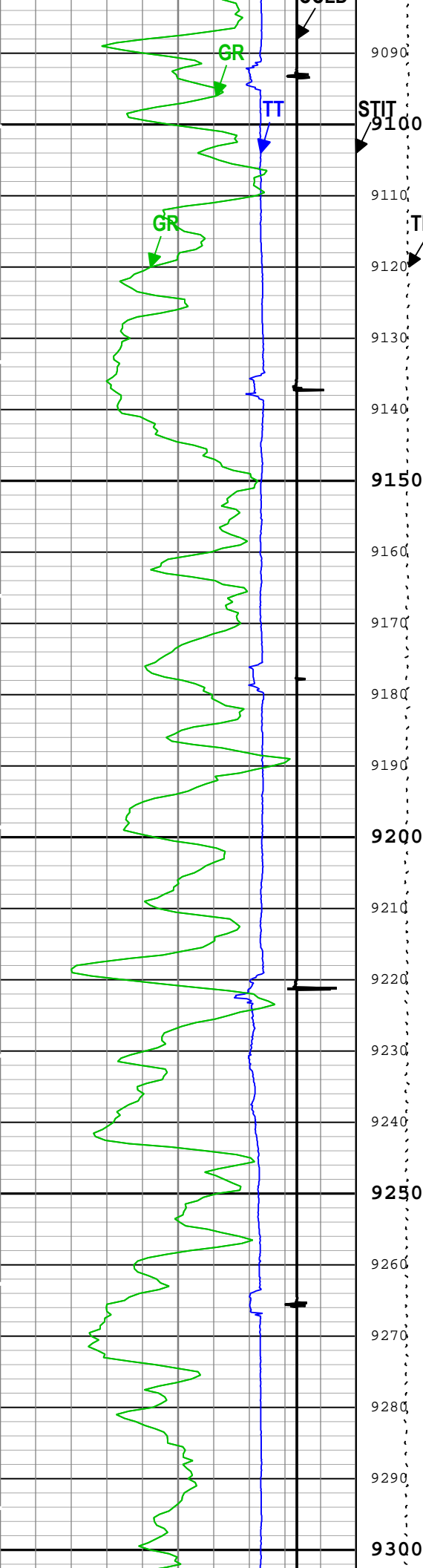


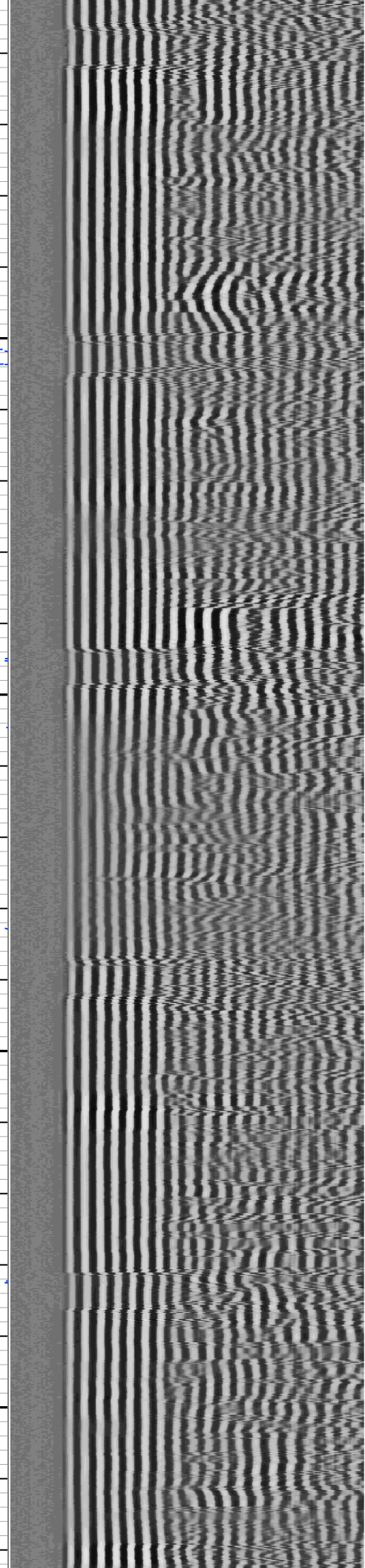
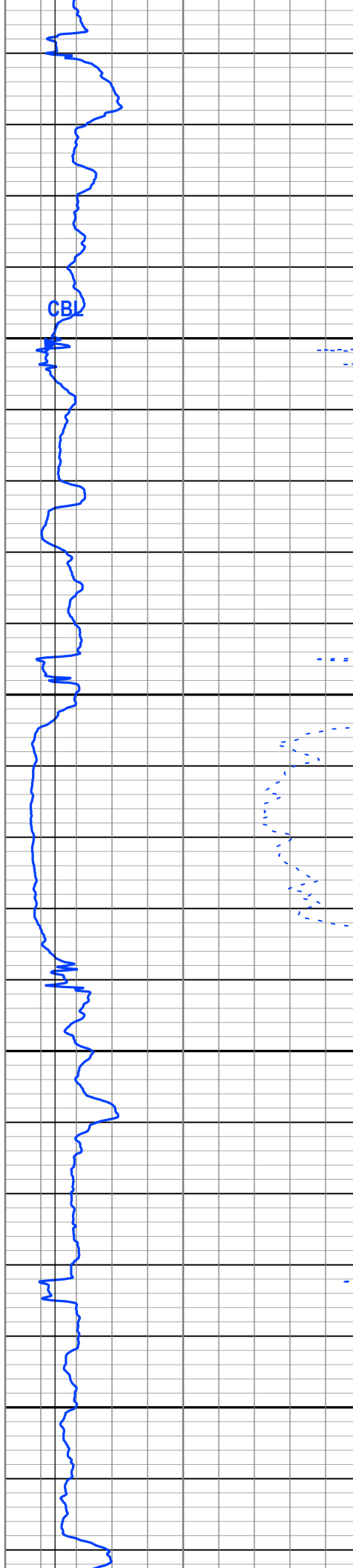
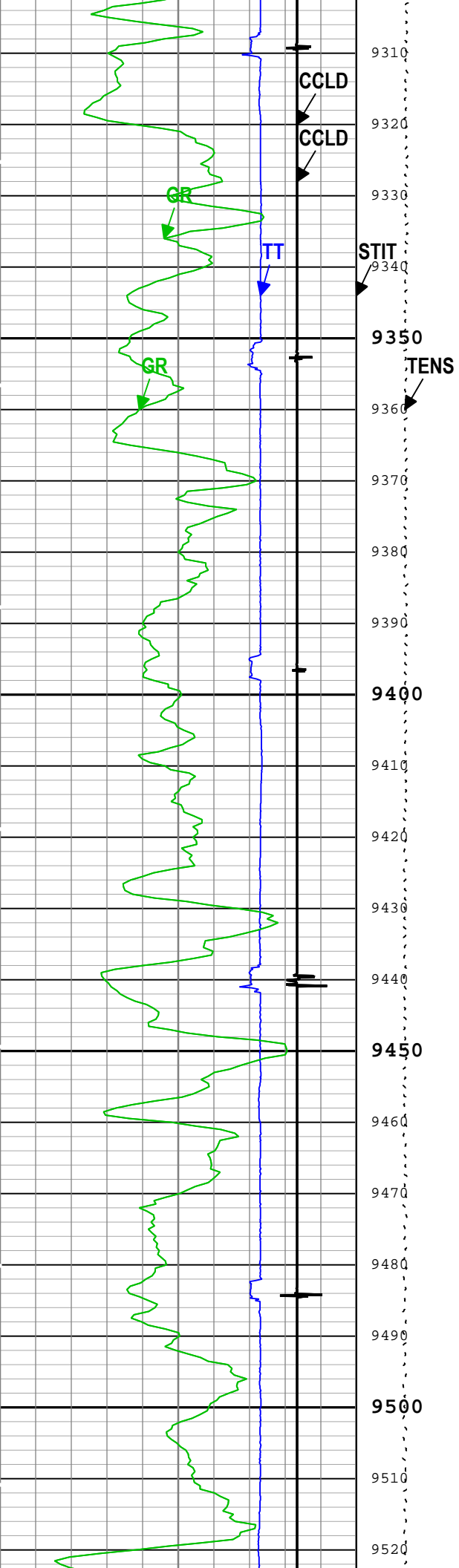


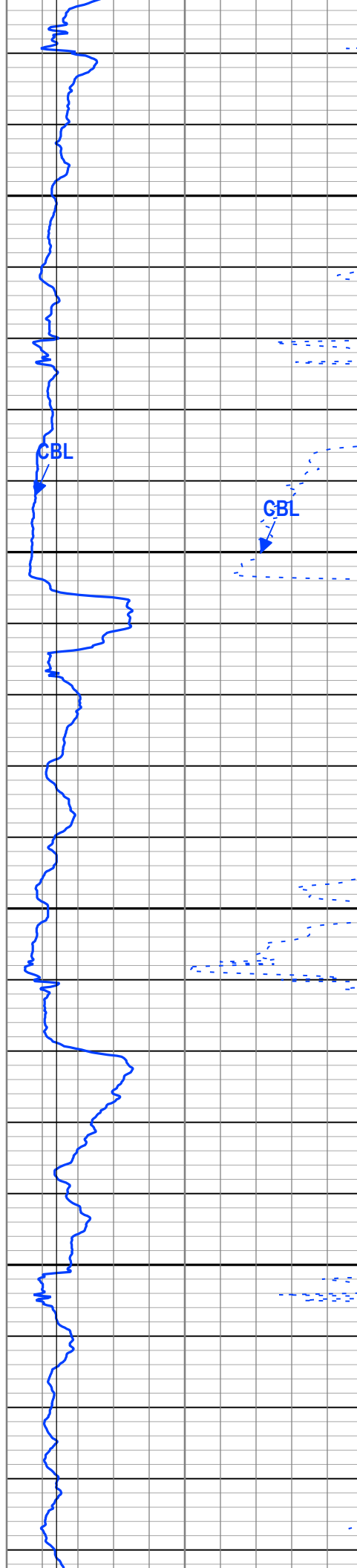
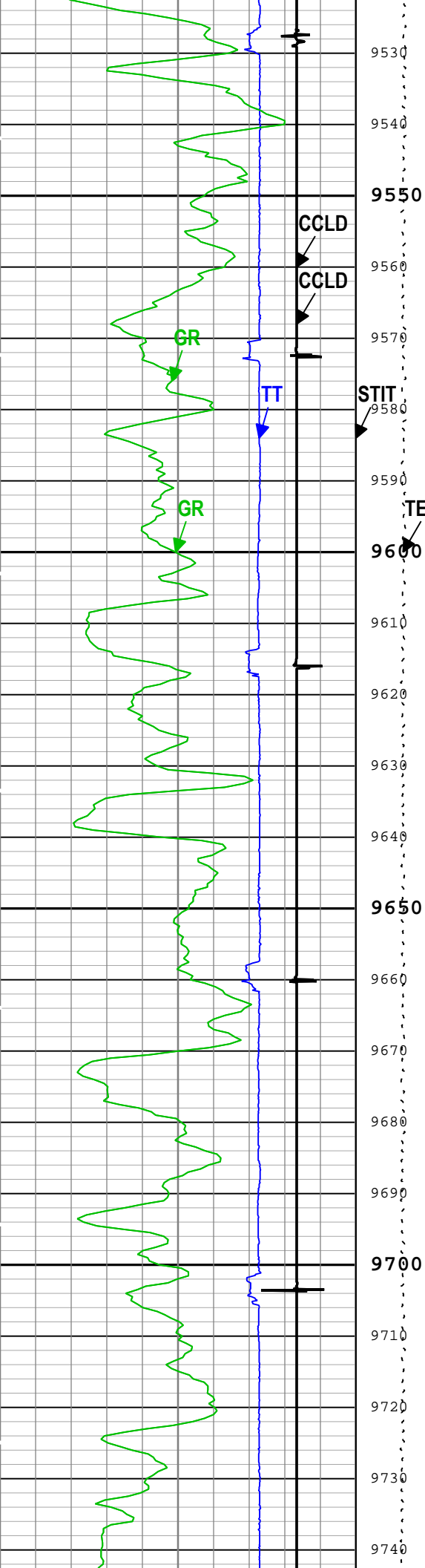


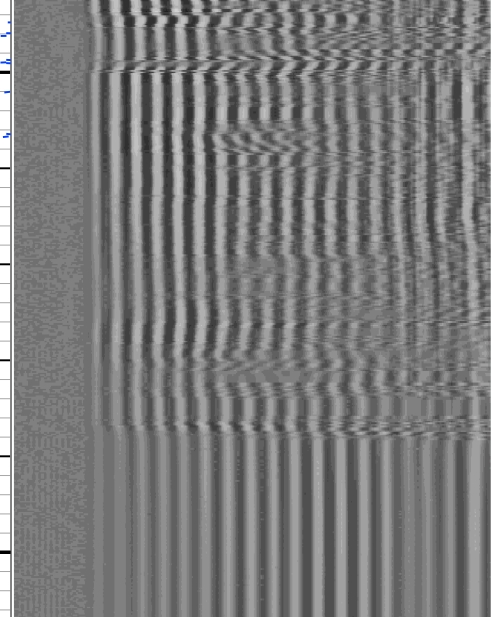
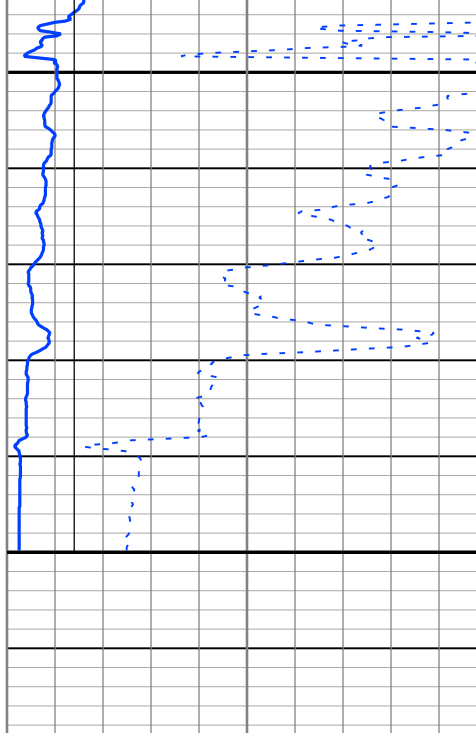
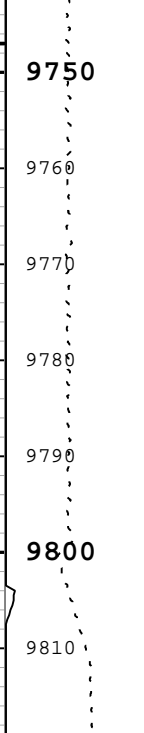
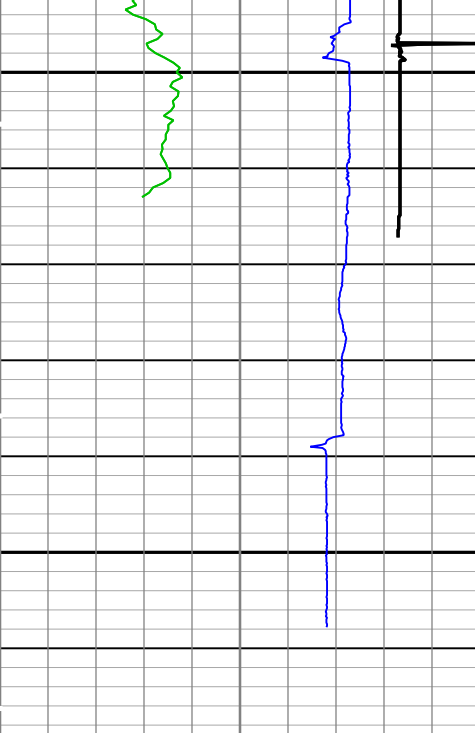












Gamma Ray (GR) PSTP-B		
0	gAPI	150
Transit Time for CBL (TT) SCMT-HC		
400	us	200
Gamma Ray (GR) PSTP-B		
0	gAPI	150
CCL Discriminated Amplitude (CCLD) PSTP-B		
-5	V	1
CCL Discriminated Amplitude (CCLD) PSTP-B		
-5	V	1

Cable Tension (TENS)	3000 lbf	0
Stuck Tool Indicator, Total (STIT)	0	ft 50
Cable Drag		
Tool_Tot. Drag		

CBL Amplitude (CBL) SCMT-HC		
0	mV	10
CBL Amplitude (CBL) SCMT-HC		
0	mV	100
Good Bond (GOBO)		
0	mV	10
GoodBond From CBL to GOBO		

Min Amplitude Max

VDL VariableDensity (VDL) SCMT-HC

200 us 1200

- BIEP - Bond Index Event Pips SCMT-HC

TIME 1900 - Time Marked every 60.00 (s)

Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 16-Sep-2018 05:24:19

Channel Processing Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	278.6	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-HC	230.96	us
CBLG	CBL Gate Width	SCMT-HC	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-HC	Depth Zoned	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	Depth Zoned	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-HC	Depth Zoned	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-HC	Depth Zoned	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-HC	Depth Zoned	ft

MSA	Minimum Sonic Amplitude	SCMT-HC	Depth Zoned	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-HC	Depth Zoned	mV
RUN_SNUM	Run Sequence Number	WSDRUN	1	
TD	Total Measured Depth	Borehole	9800	ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
CBRA	51	2800	2988
CBRA	80	2988	9800
CBRA	0	9800	9819.42
THNO	0.352	2800	2988
THNO	0.25	2988	9800
GOBO_CURR	2.87	2800	2988
GOBO_CURR	1.4	2988	9800
GOBO_CURR	0	9800	9819.42
MATT_CURR	12.13	2800	2988
MATT_CURR	16.92	2988	9800
MATT_CURR	0	9800	9819.42
MCI	14.81	2800	2992
MCI	1.25	2992	9800
MCI	0	9800	9819.42
MSA	1.39	2800	2988
MSA	0.51	2988	9800
MSA	0	9800	9819.42
MSA_CURR	1.39	2800	2988
MSA_CURR	0.51	2988	9800
MSA_CURR	0	9800	9819.42

All depth are actual.

Tool Control Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-HC	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-B	0 dB	

One

Repeat Pass

Software Version

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

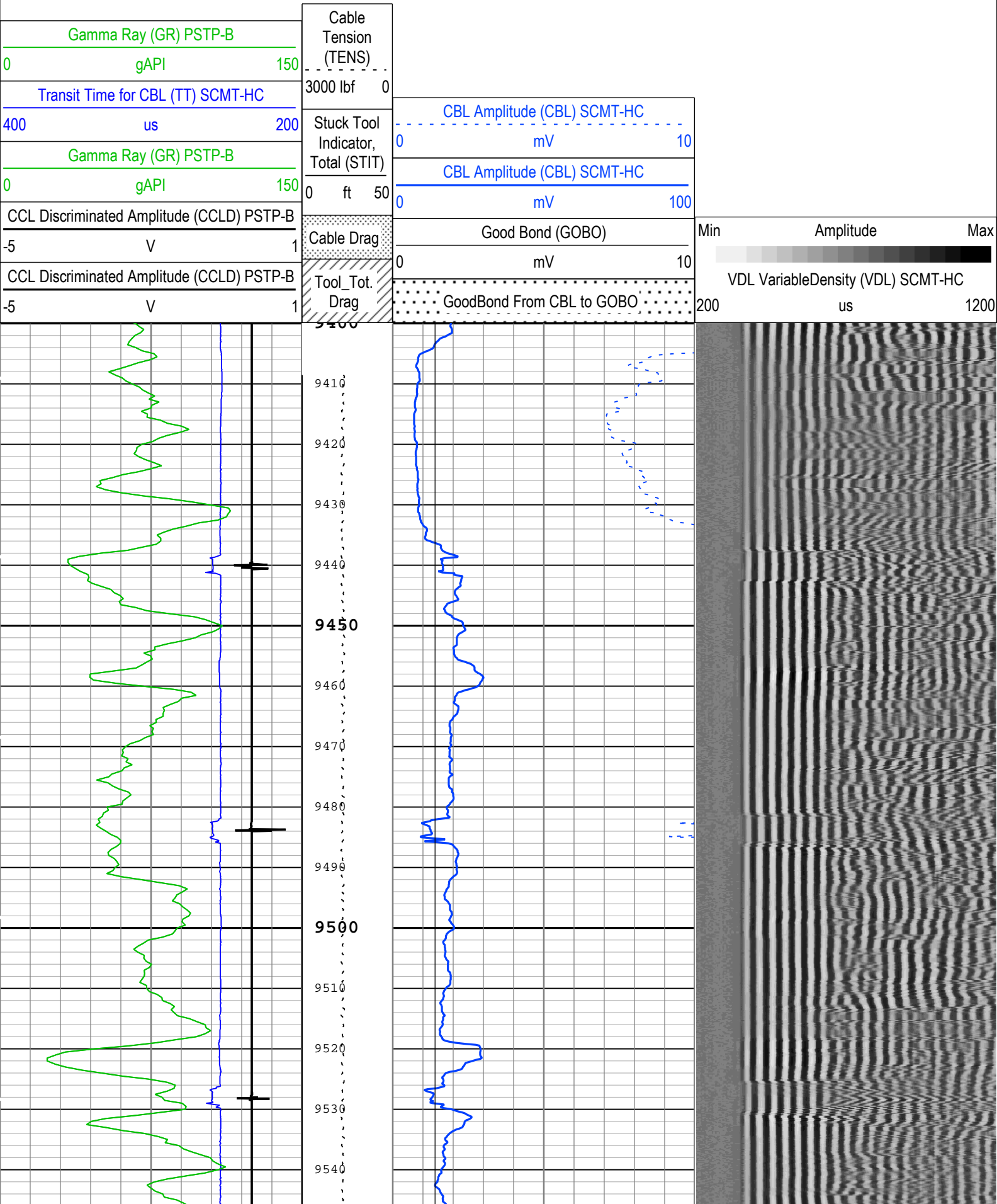
Pass Summary

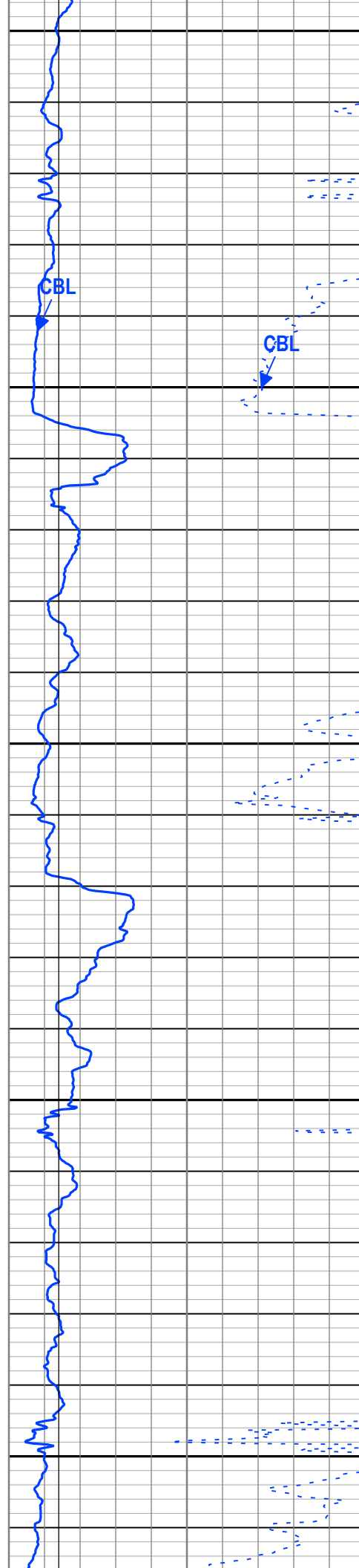
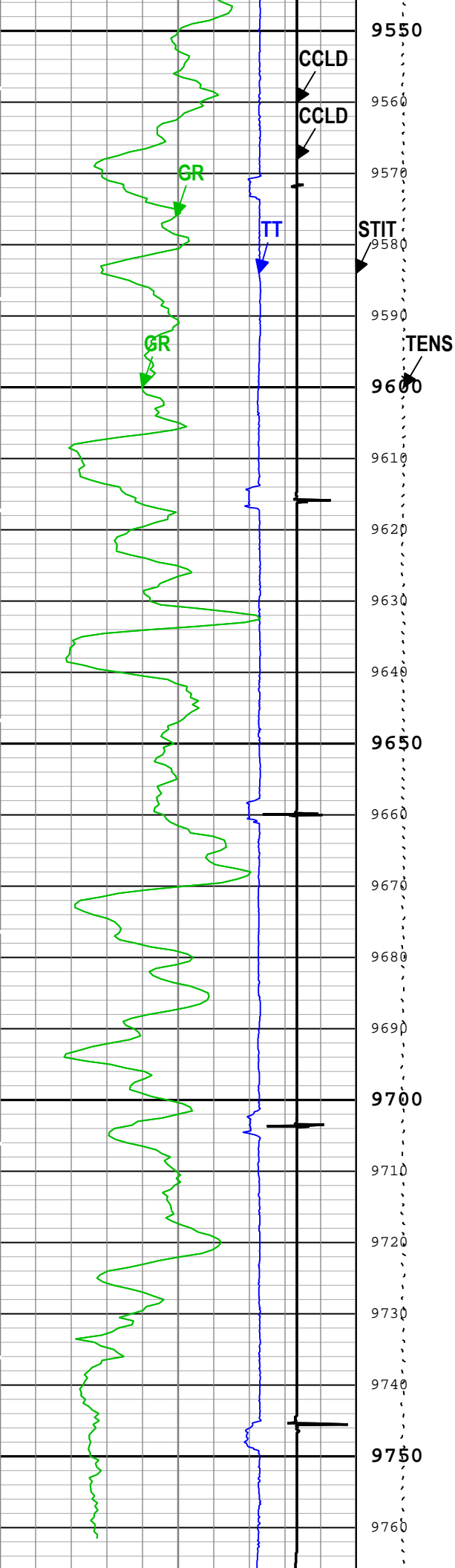
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[2]:Up	Up	9408.28 ft	9817.98 ft	15-Sep-2018 12:15:59 PM	15-Sep-2018 12:30:37 PM	ON	9.29 ft	Yes

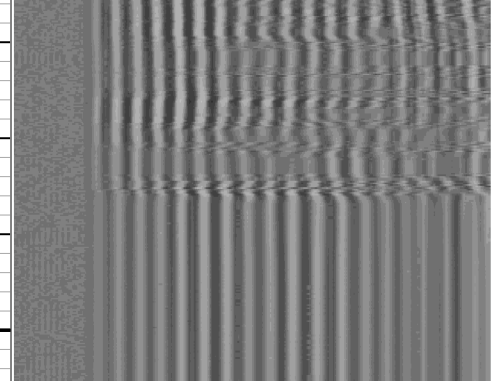
All depths are referenced to toolstring zero

■ BIEP - Bond Index Event Pips SCMT-HC

TIME_1900 - Time Marked every 60.00 (s)







- BIEP - Bond Index Event Pips SCMT-HC

Channel Processing Parameters	
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One: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	278.6	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-HC	230.96	us
CBLG	CBL Gate Width	SCMT-HC	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-HC	Depth Zoned	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-HC	Depth Zoned	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	WTEP	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-HC	Depth Zoned	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-HC	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-HC	Depth Zoned	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-HC	Depth Zoned	mV
RUN_SNUM	Run Sequence Number	WSDRUN	1	
TD	Total Measured Depth	Borehole	9800	ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
CBRA	80	9400	9800
CBRA	0	9800	9818
GOBO_CURR	1.4	9400	9800
GOBO_CURR	0	9800	9818
MATT_CURR	16.92	9400	9800
MATT_CURR	0	9800	9818
MCI	1.25	9400	9800
MCI	0	9800	9818
MSA	0.51	9400	9800
MSA	0	9800	9818
MSA_CURR	0.51	9400	9800
MSA_CURR	0	9800	9818

All depth are actual.

Tool Control Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-HC	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-B	0 dB	

One

Main Pass

Software Version

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

Pass Summary

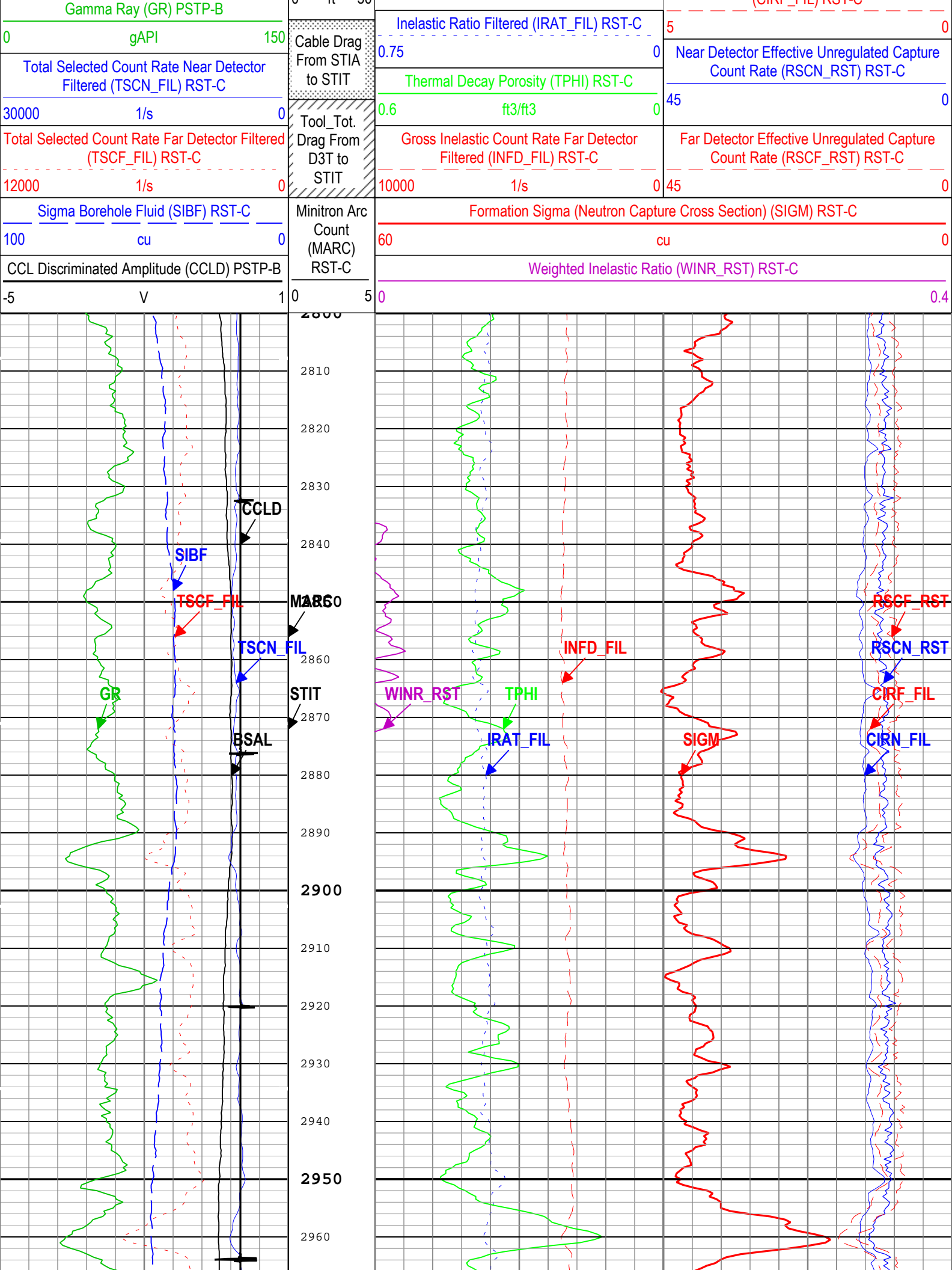
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[3]:Up	Up	56.63 ft	9819.43 ft	15-Sep-2018 12:38:42 PM	15-Sep-2018 5:09:01 PM	ON	9.85 ft	Yes

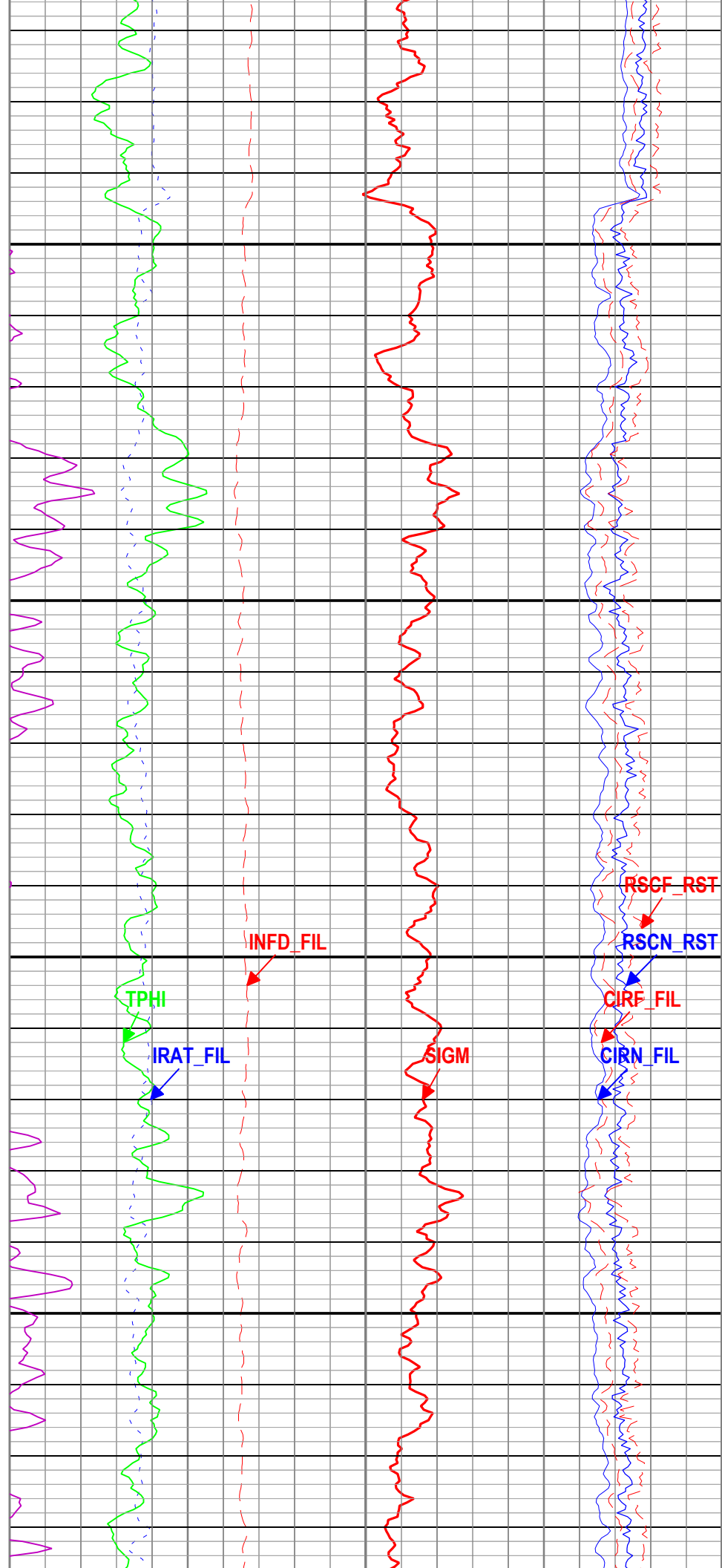
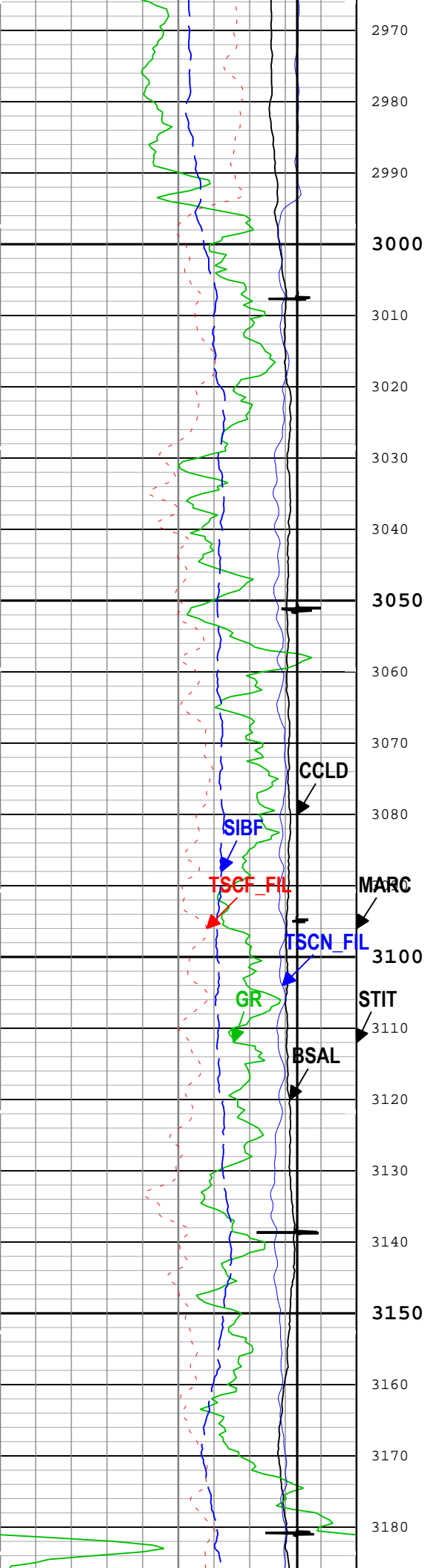
All depths are referenced to toolstring zero

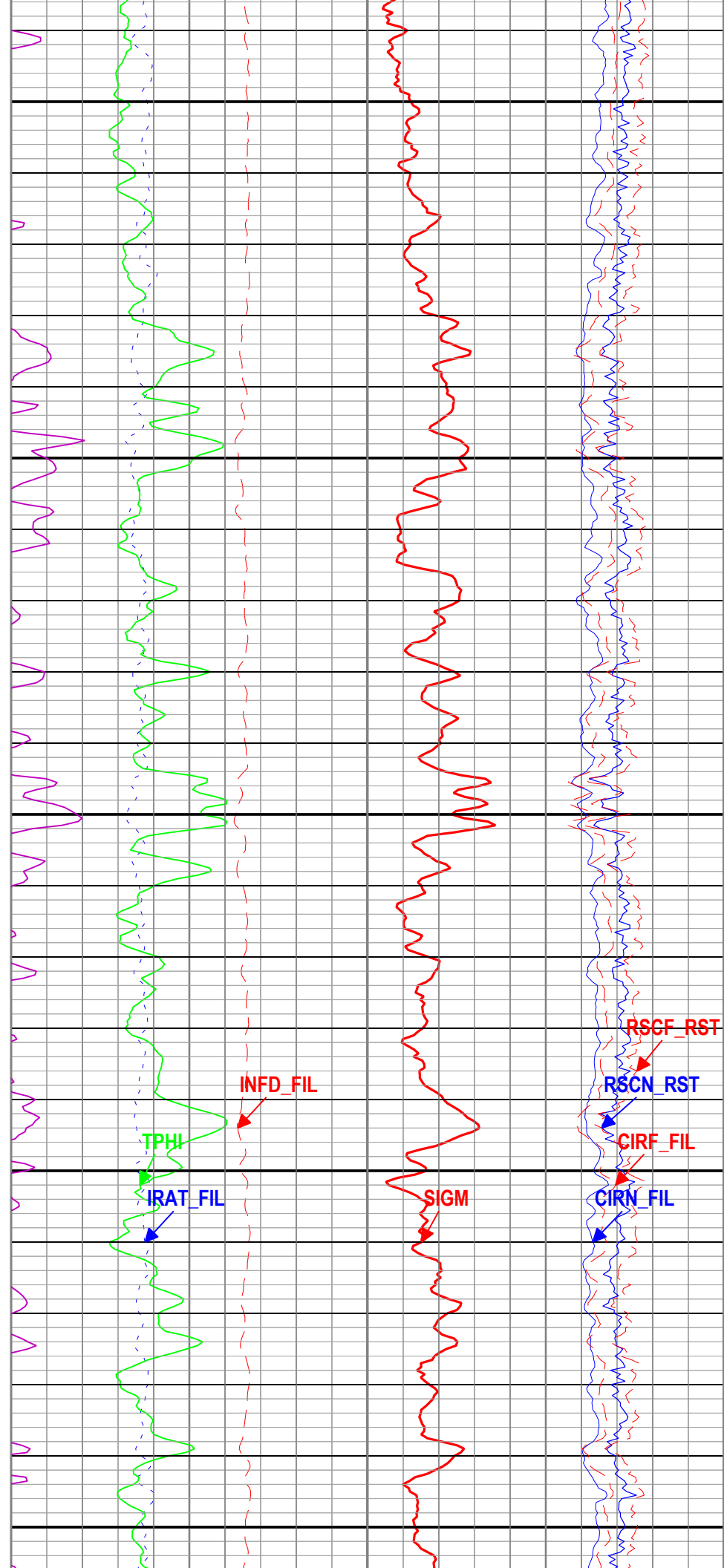
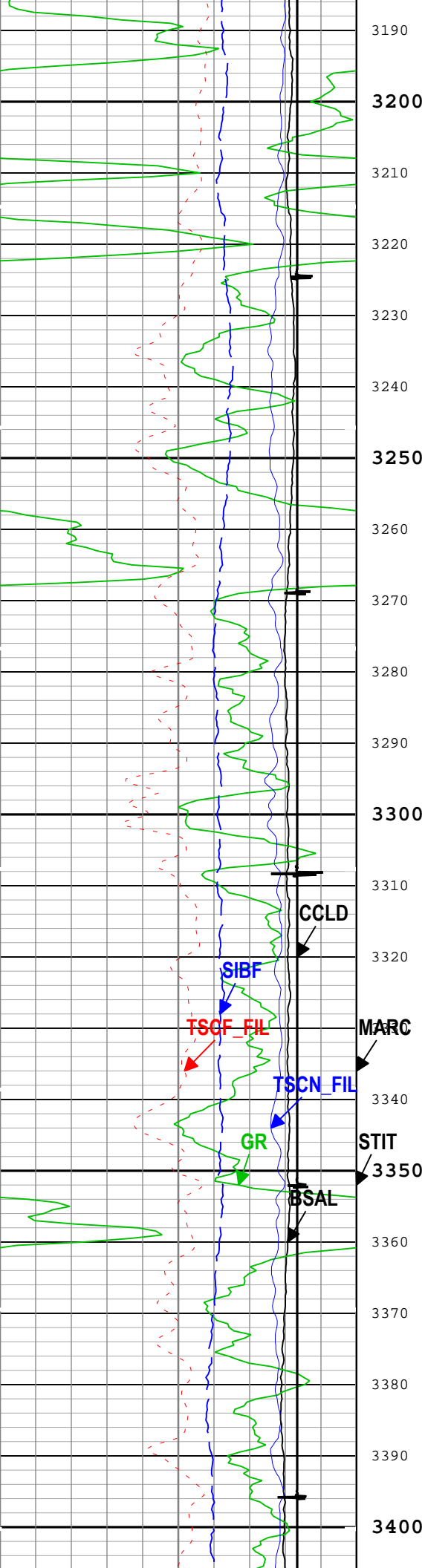
Log	<div>Company:Caerus Operating LLC</div> <div>Well:NPR 23C-10 596</div> <div>One: Log[3]:Up:S002</div>
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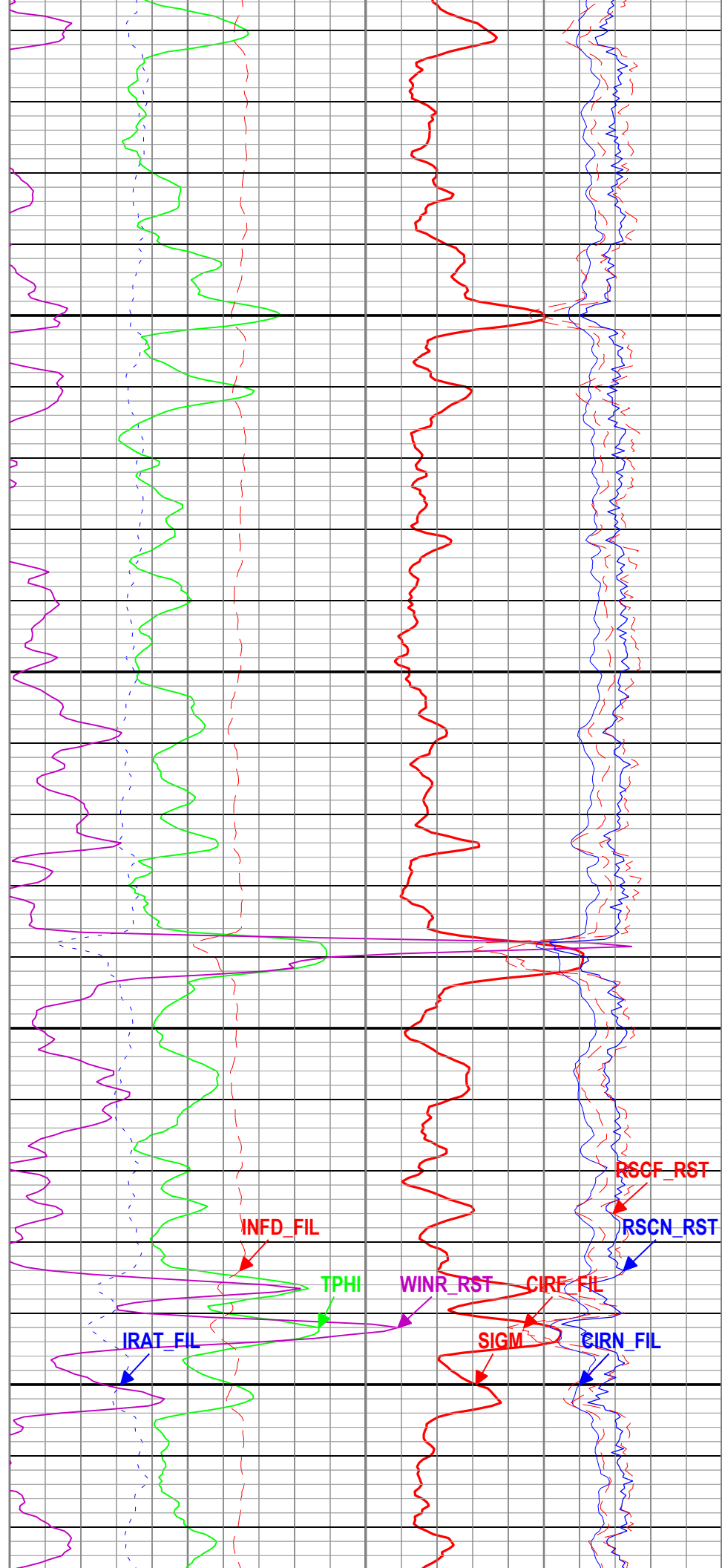
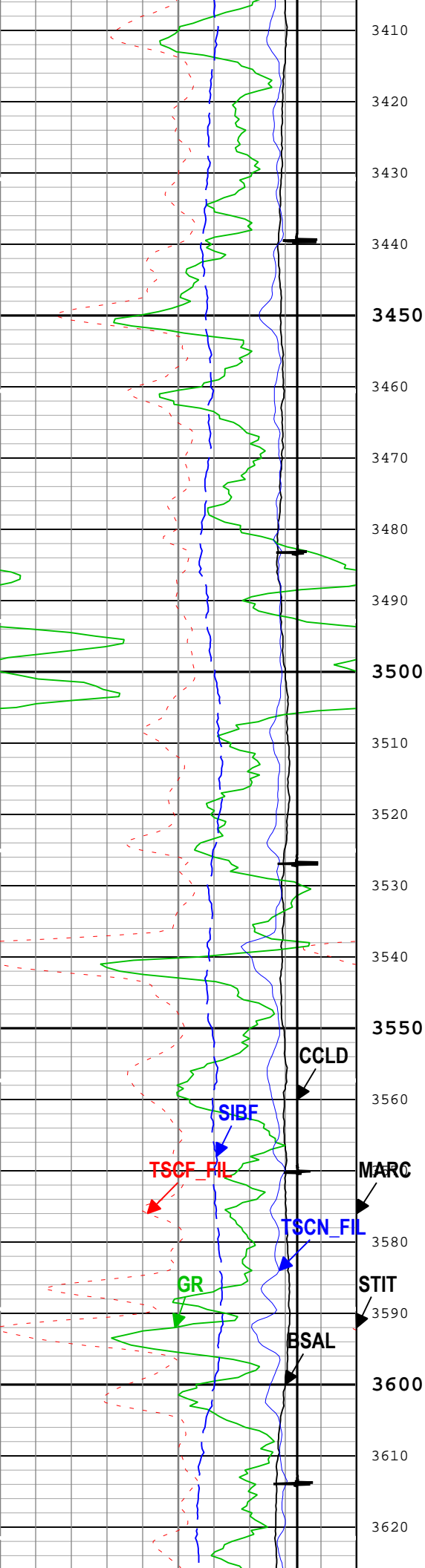
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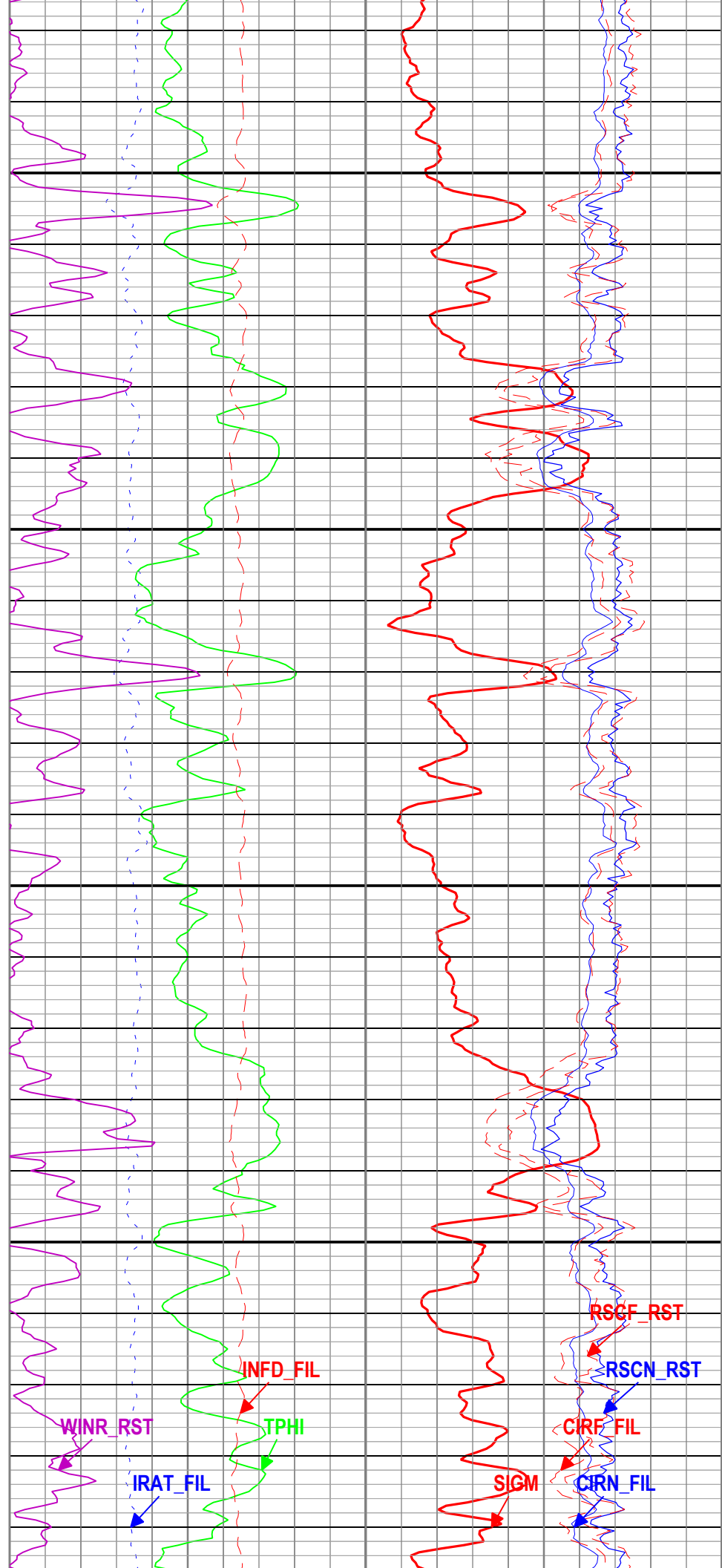
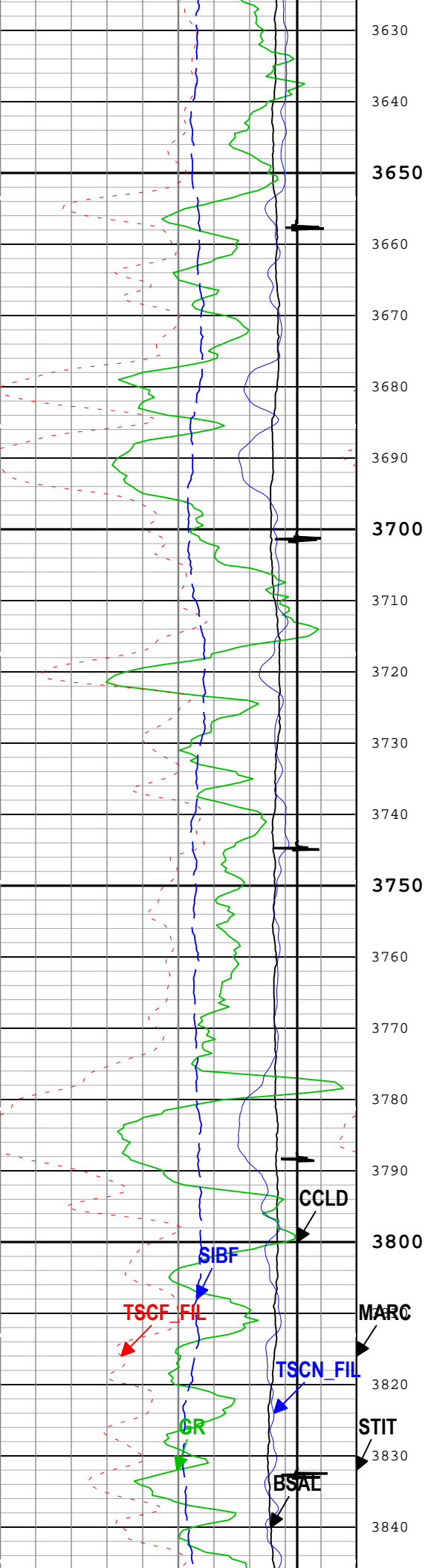
<div> <div>TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)</div> <div>TIME_1900 - Time Marked every 60.00 (s)</div> <div> <div>IHV - Integrated Hole Volume every 10.00 (ft3)</div> <div>IHV - Integrated Hole Volume every 100.00 (ft3)</div> <div>ICV - Integrated Cement Volume every 10.00 (ft3)</div> <div>ICV - Integrated Cement Volume every 100.00 (ft3)</div> </div> </div>			<div> <div>Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C</div> <div>2.5</div> <div>Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C</div> </div>		
<div>Borehole Salinity (BSAL) RST-C</div> <div>450ppk</div>		<div>Stuck Tool Indicator, Total (STIT)</div> <div>0ft50</div>			

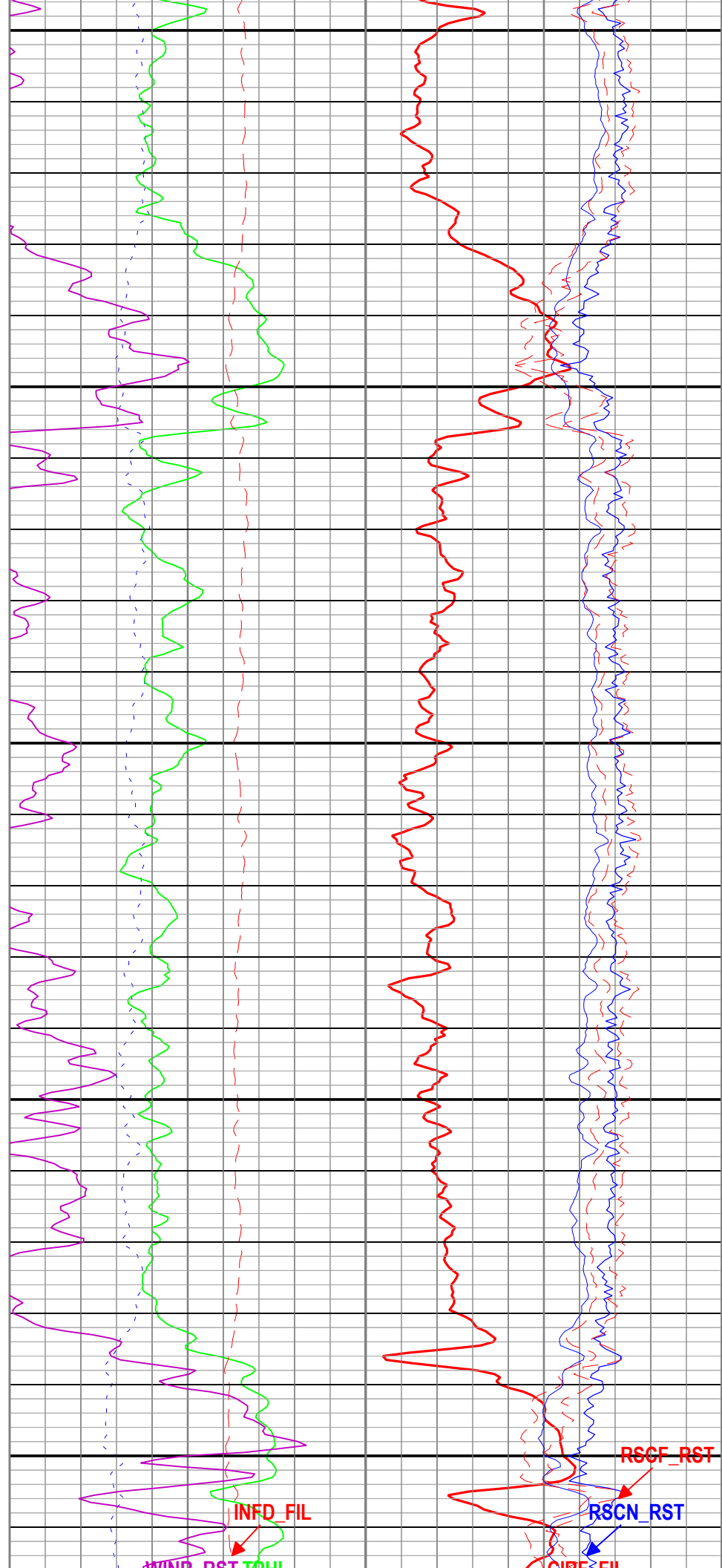
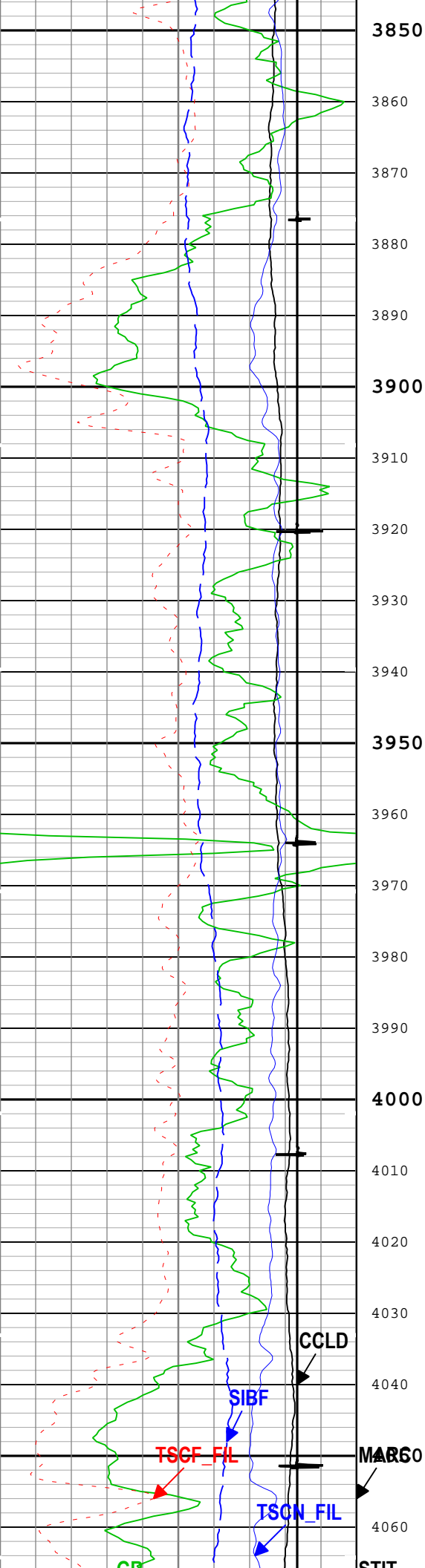


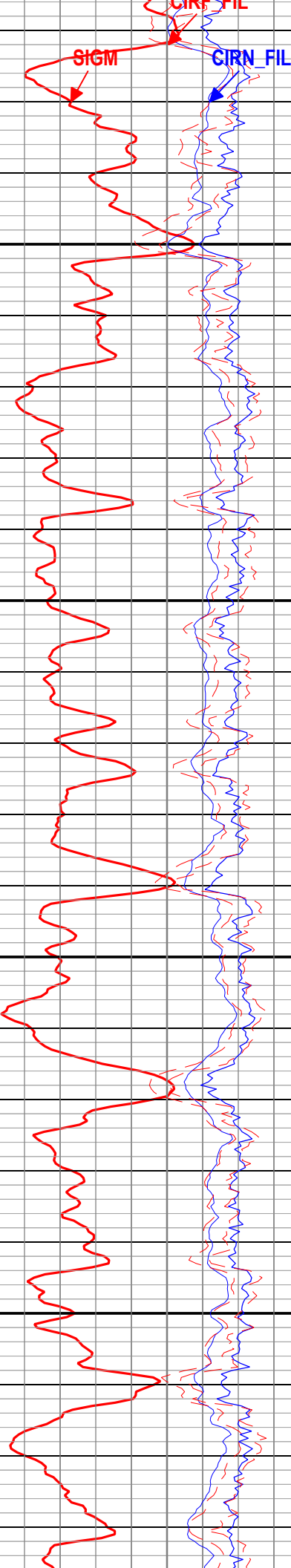
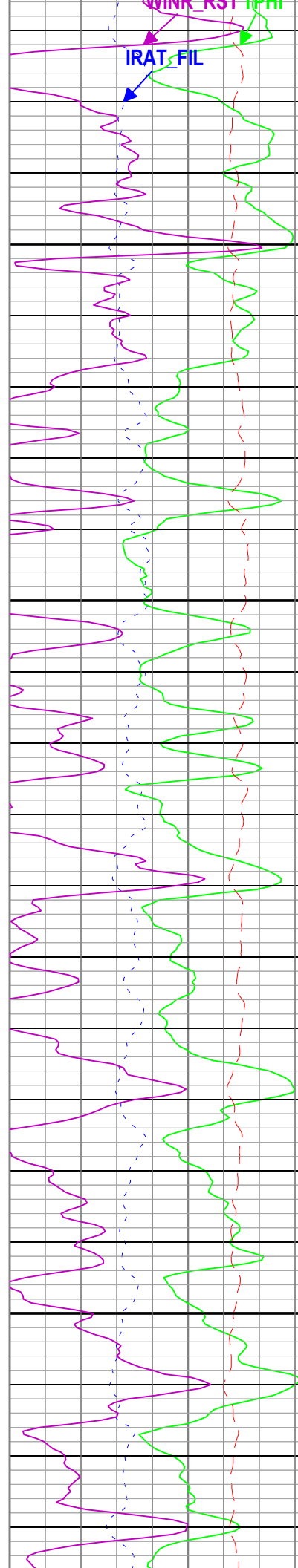
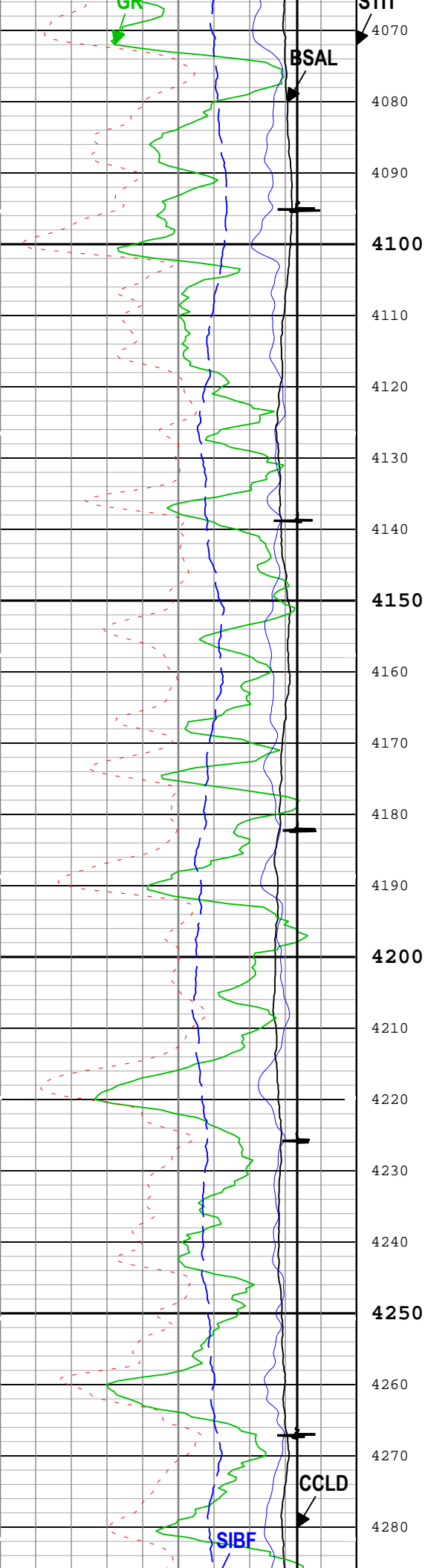


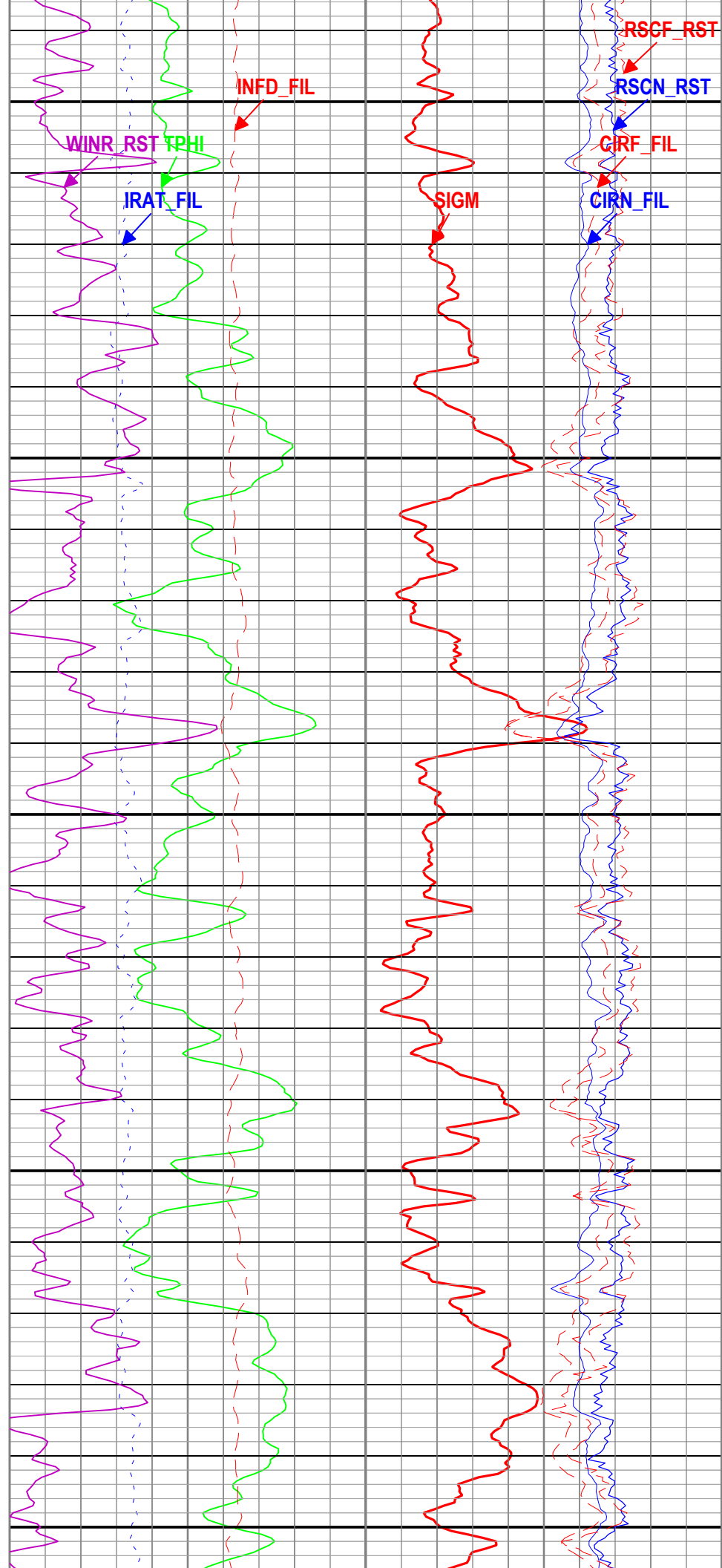
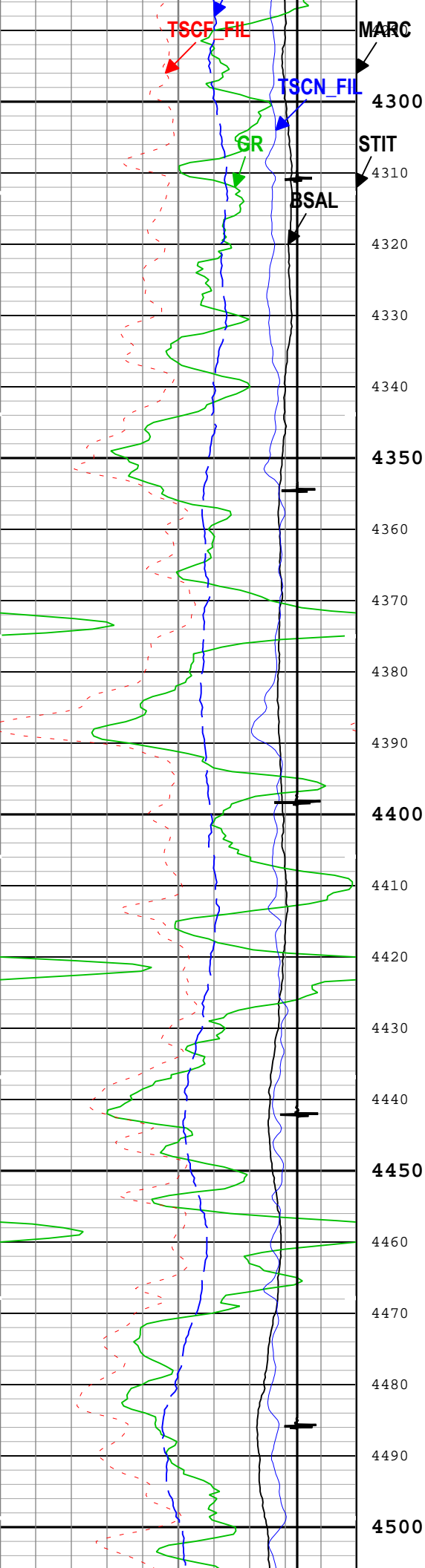


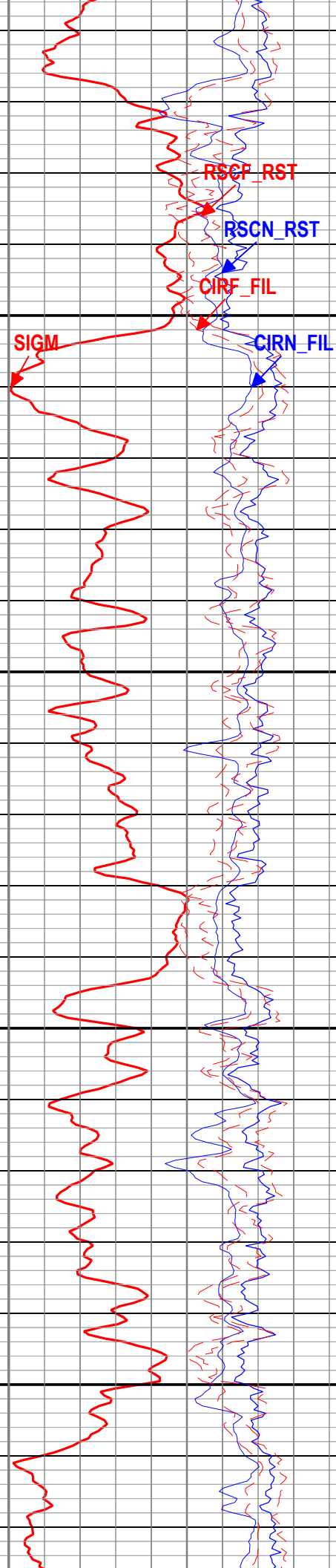
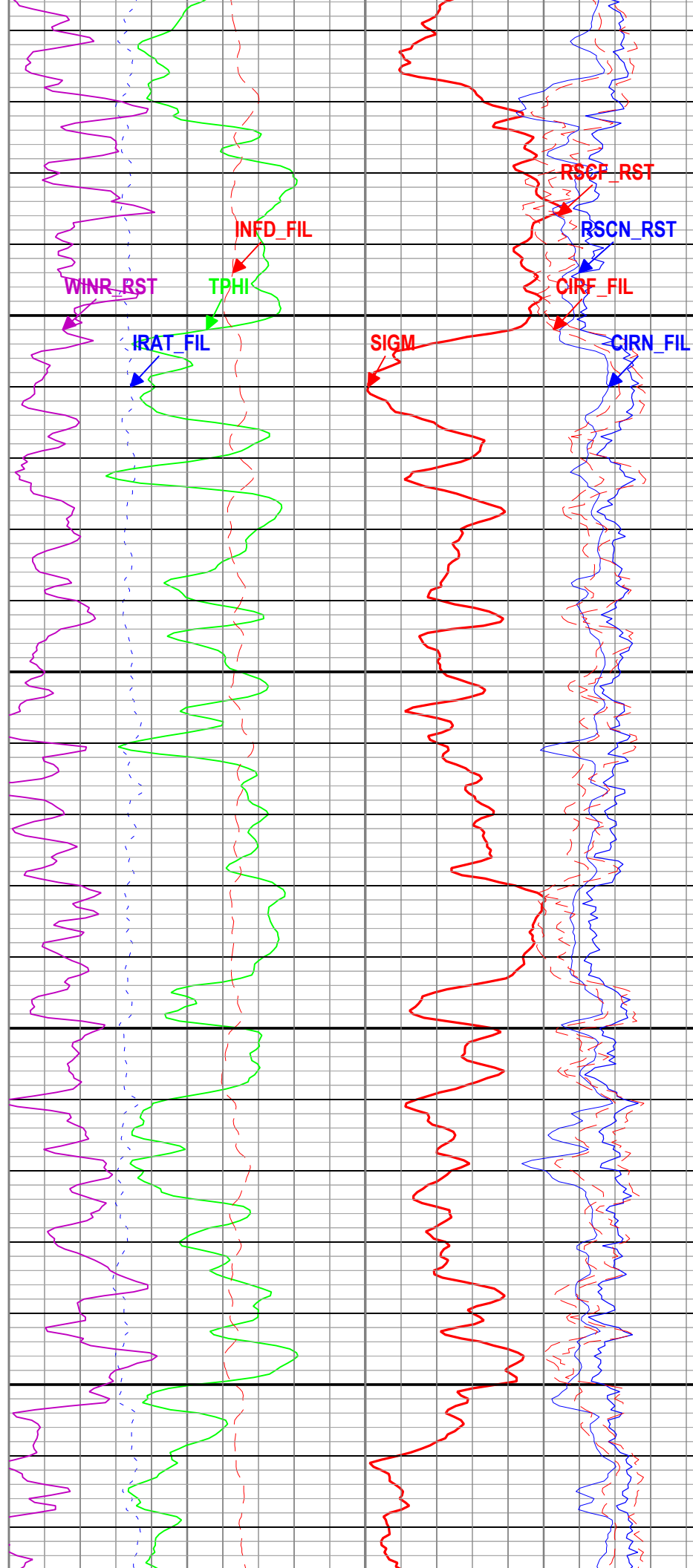
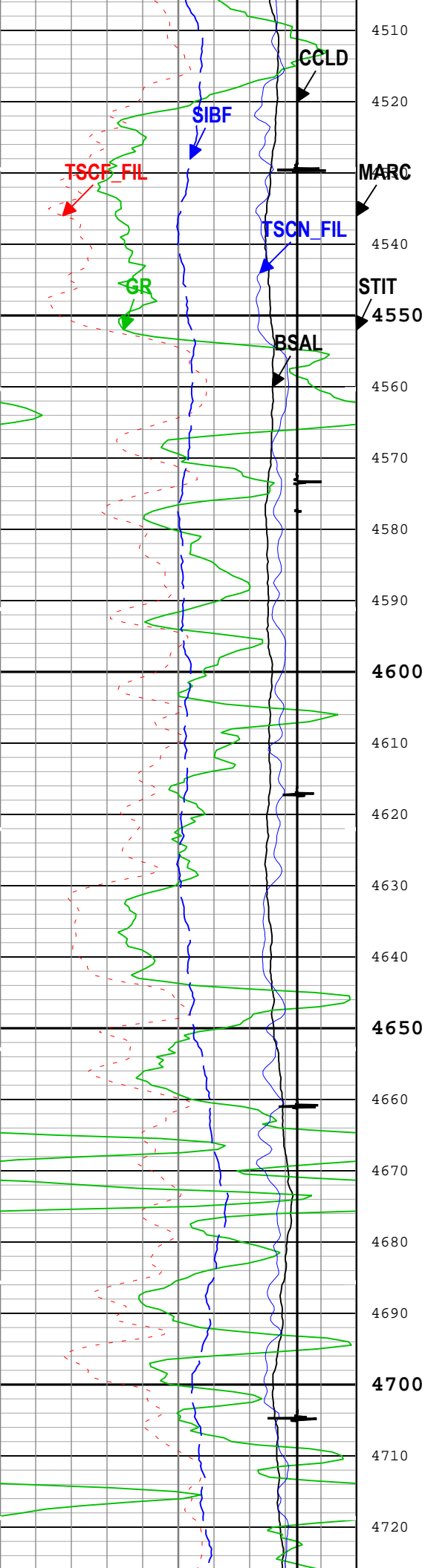


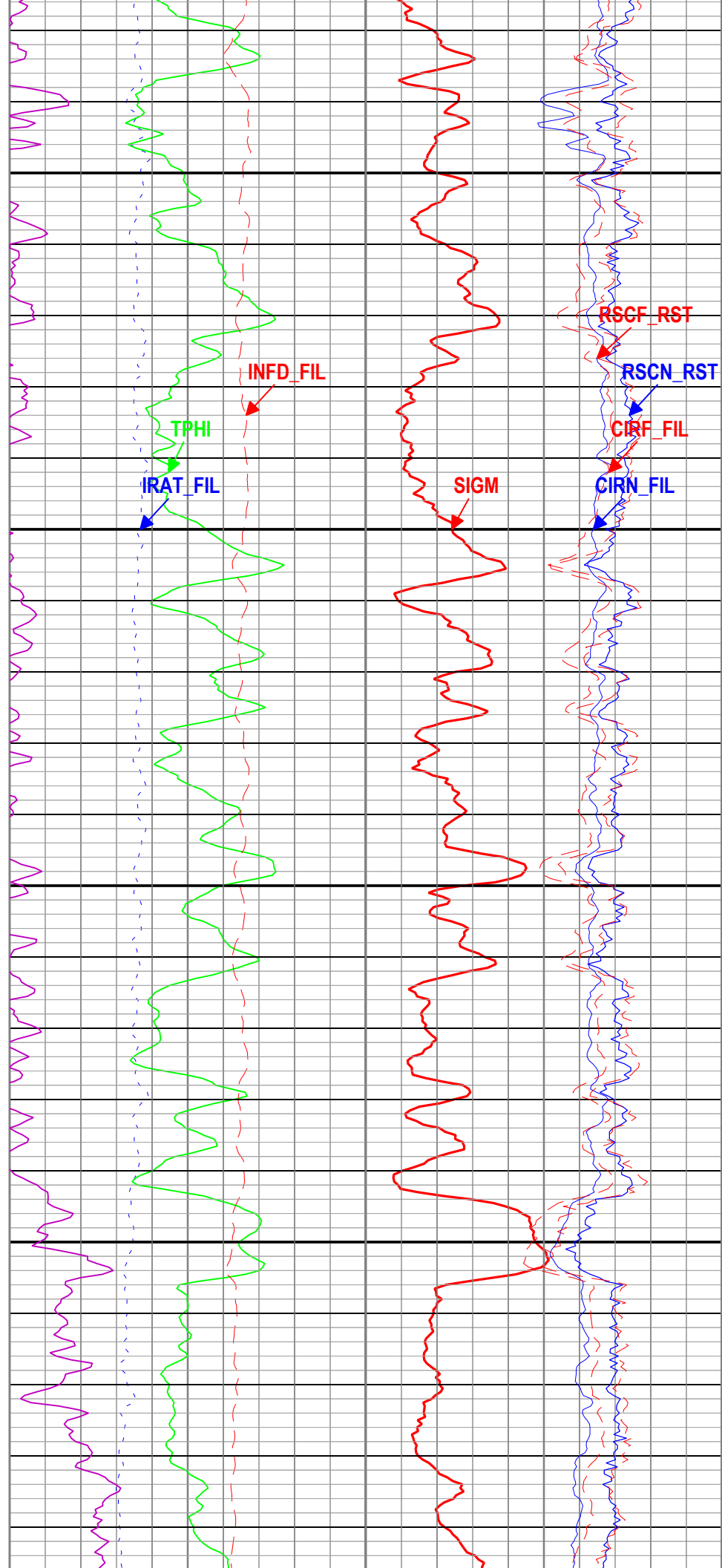
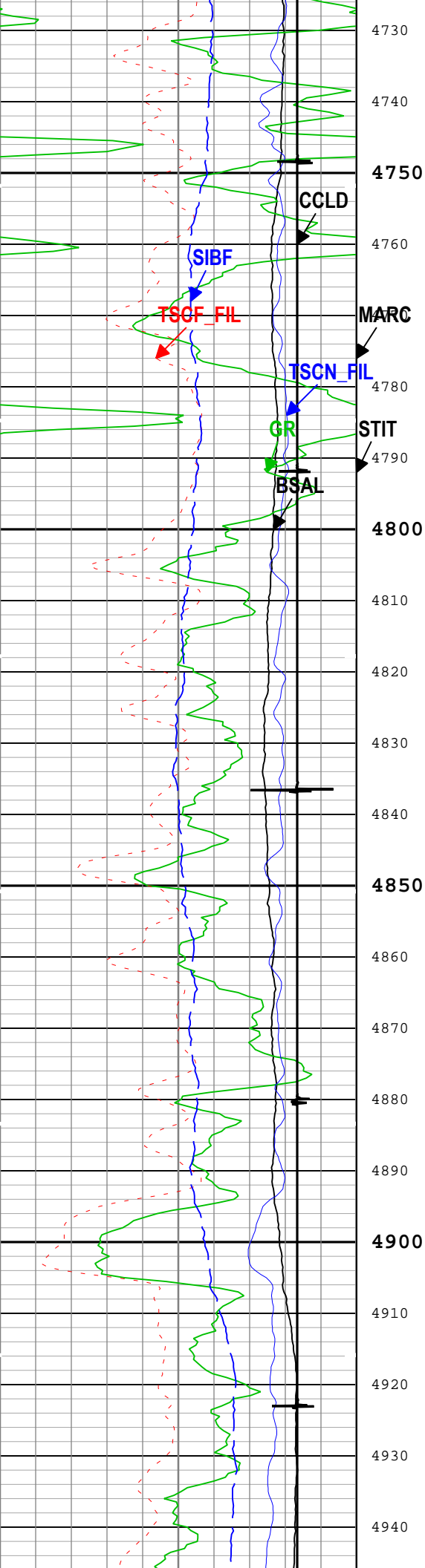


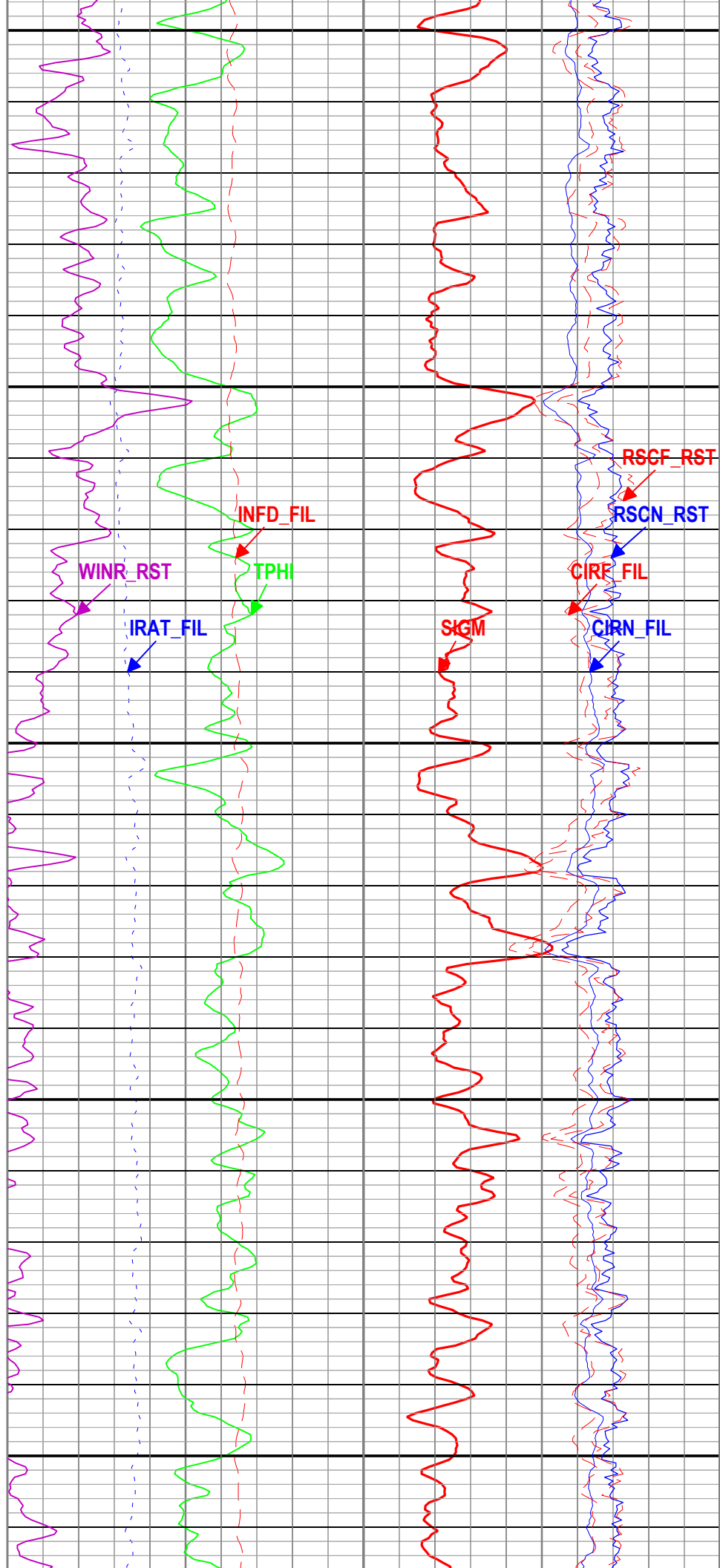
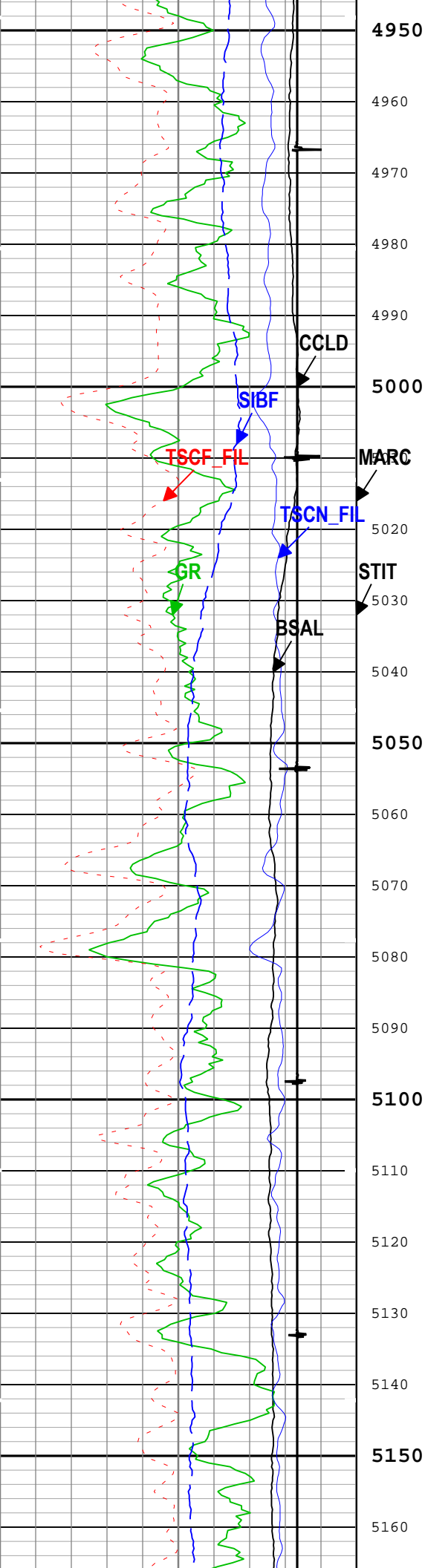


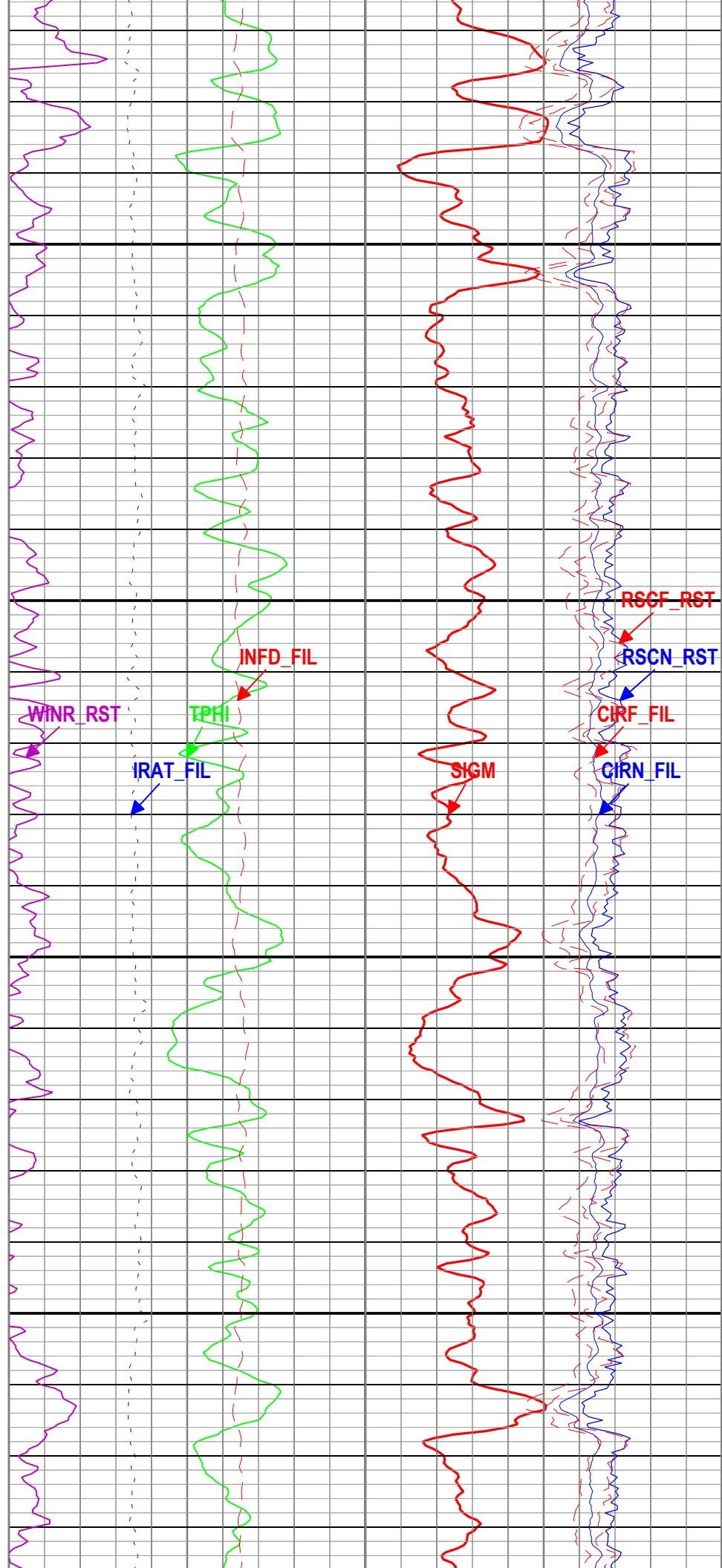
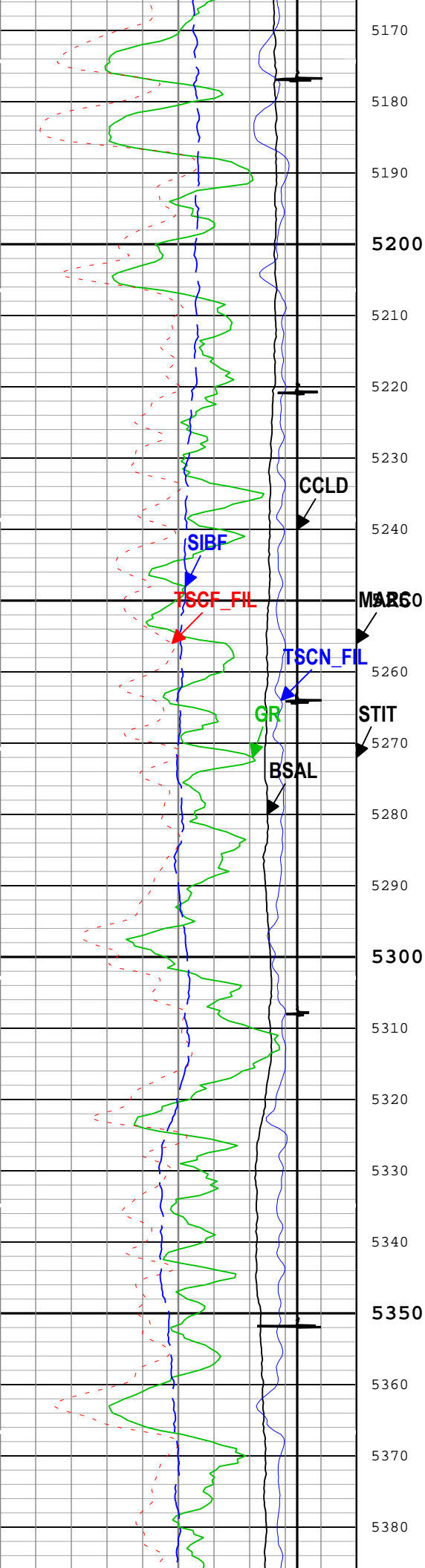


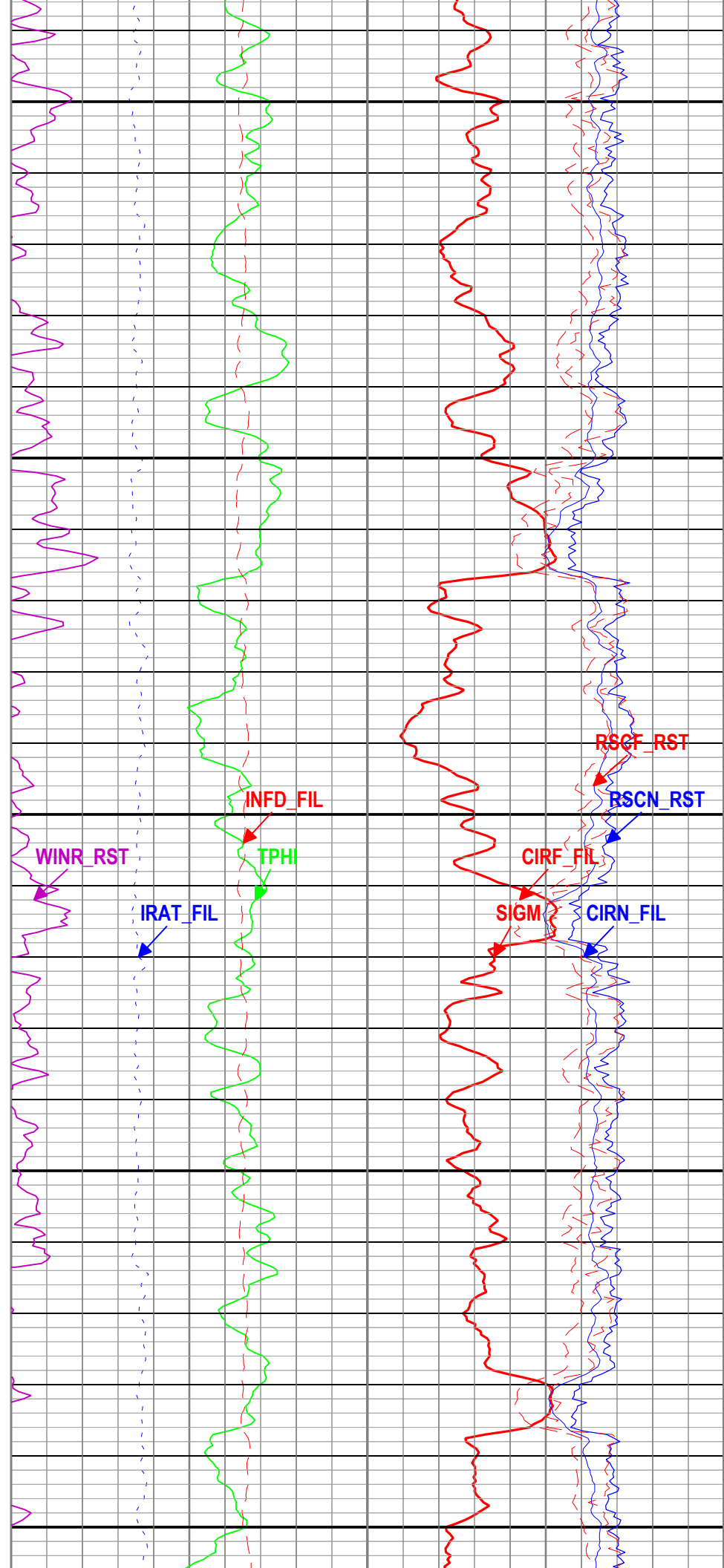
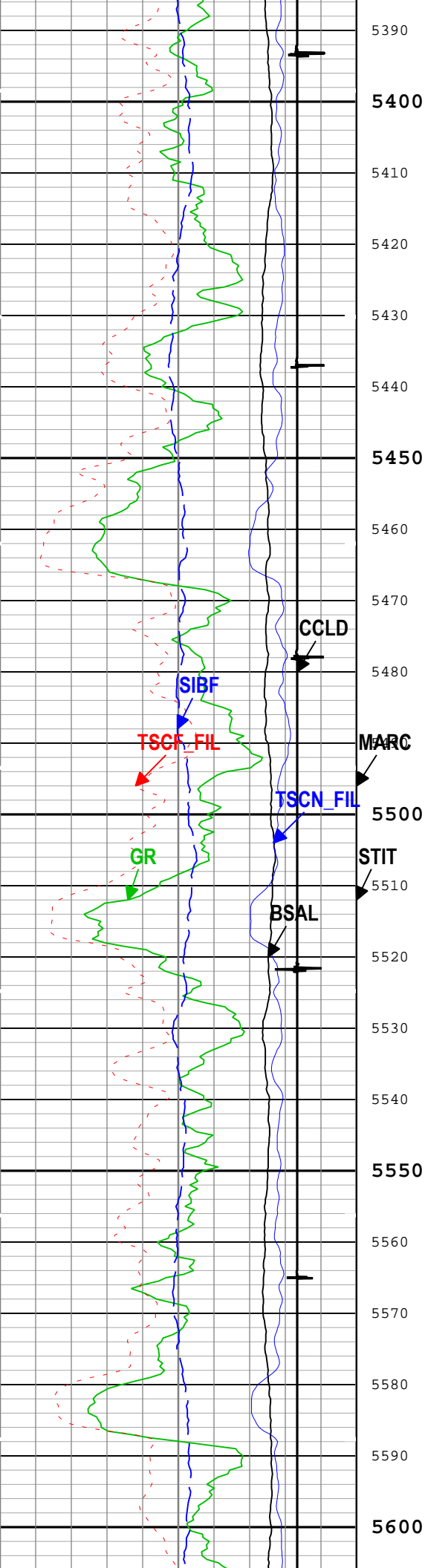


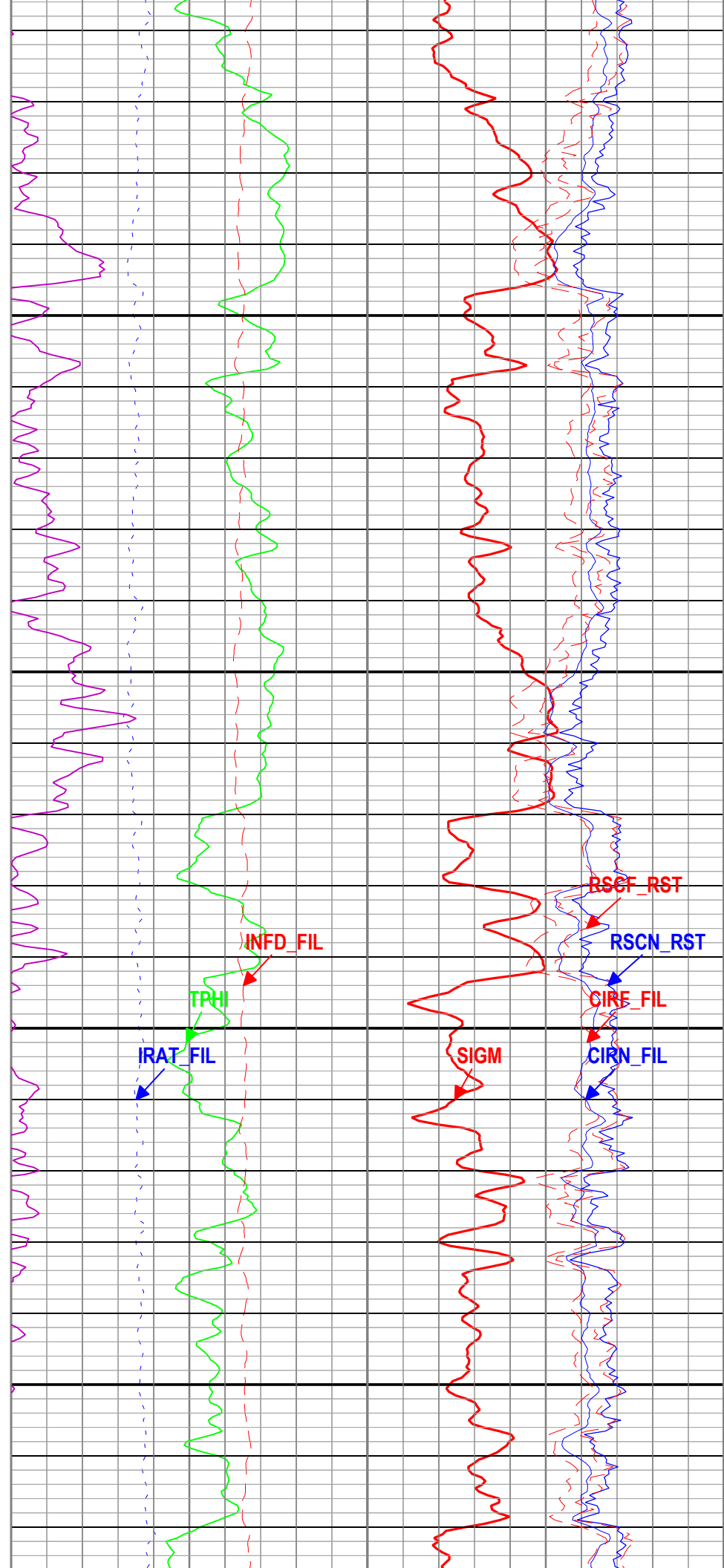
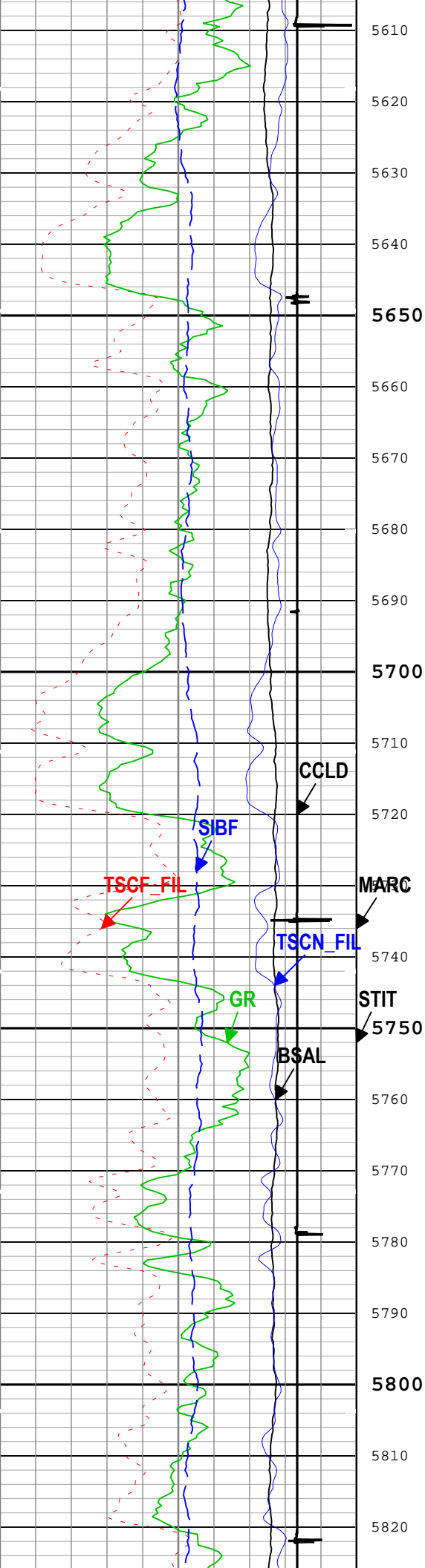


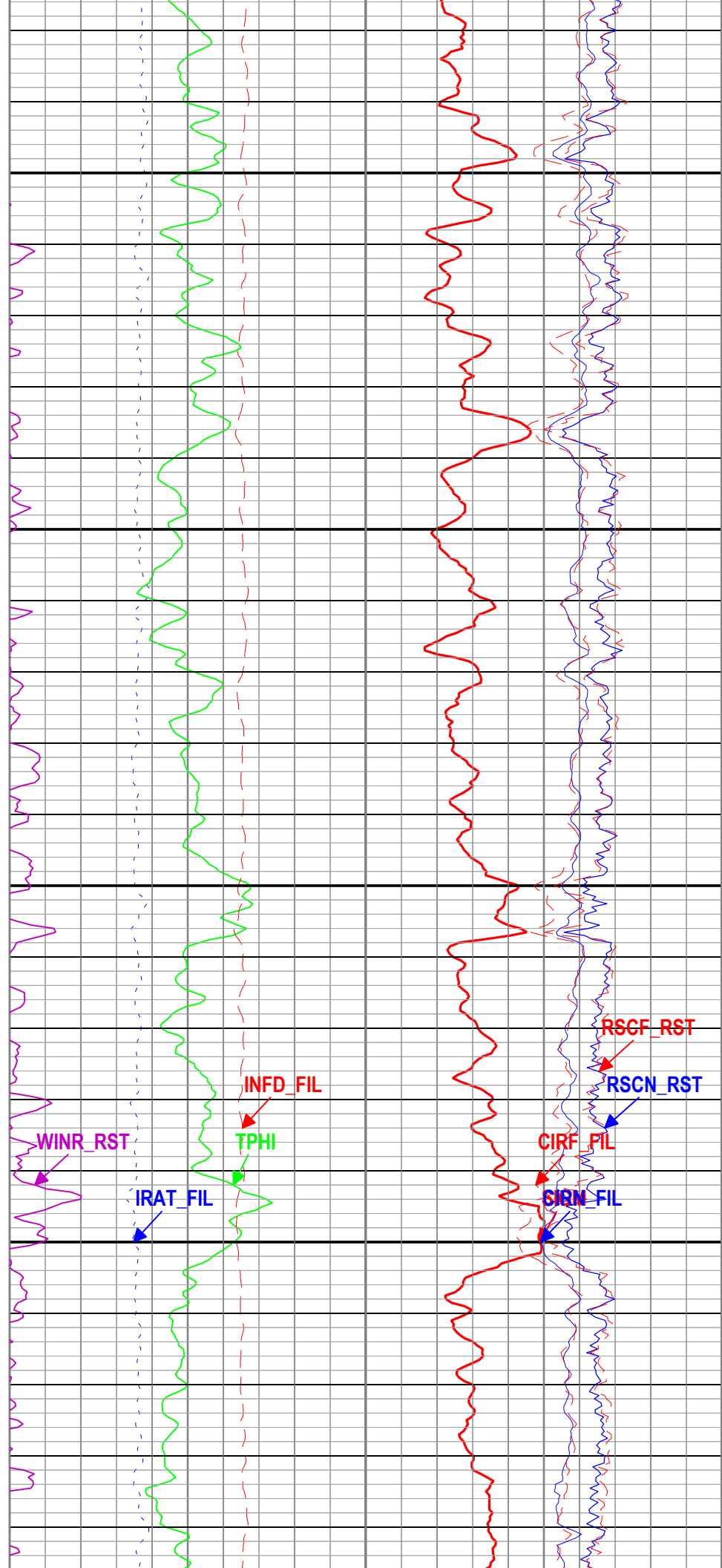
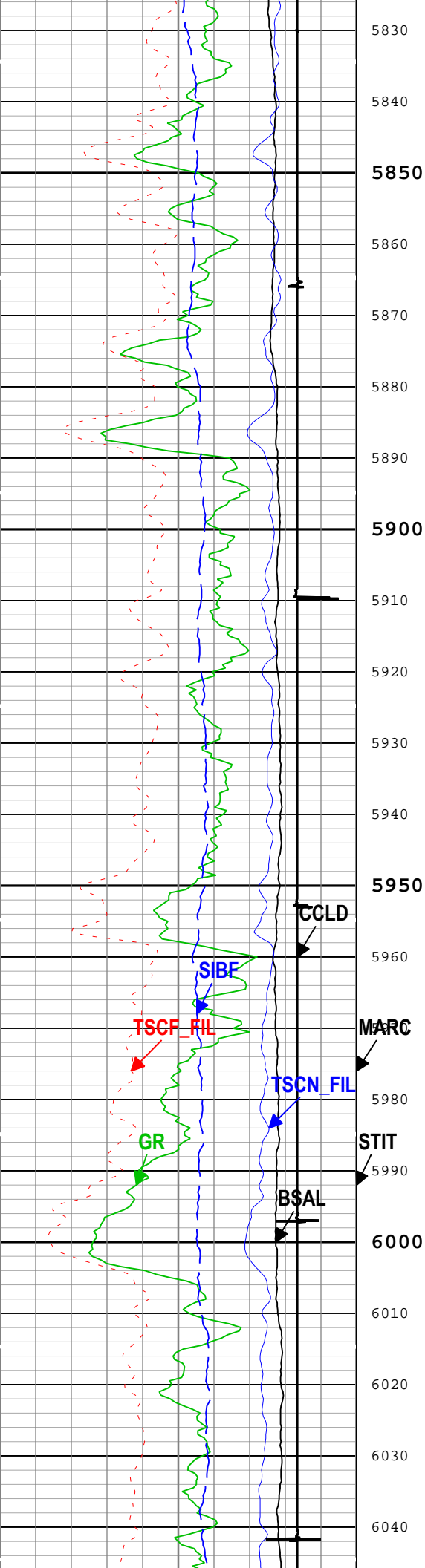


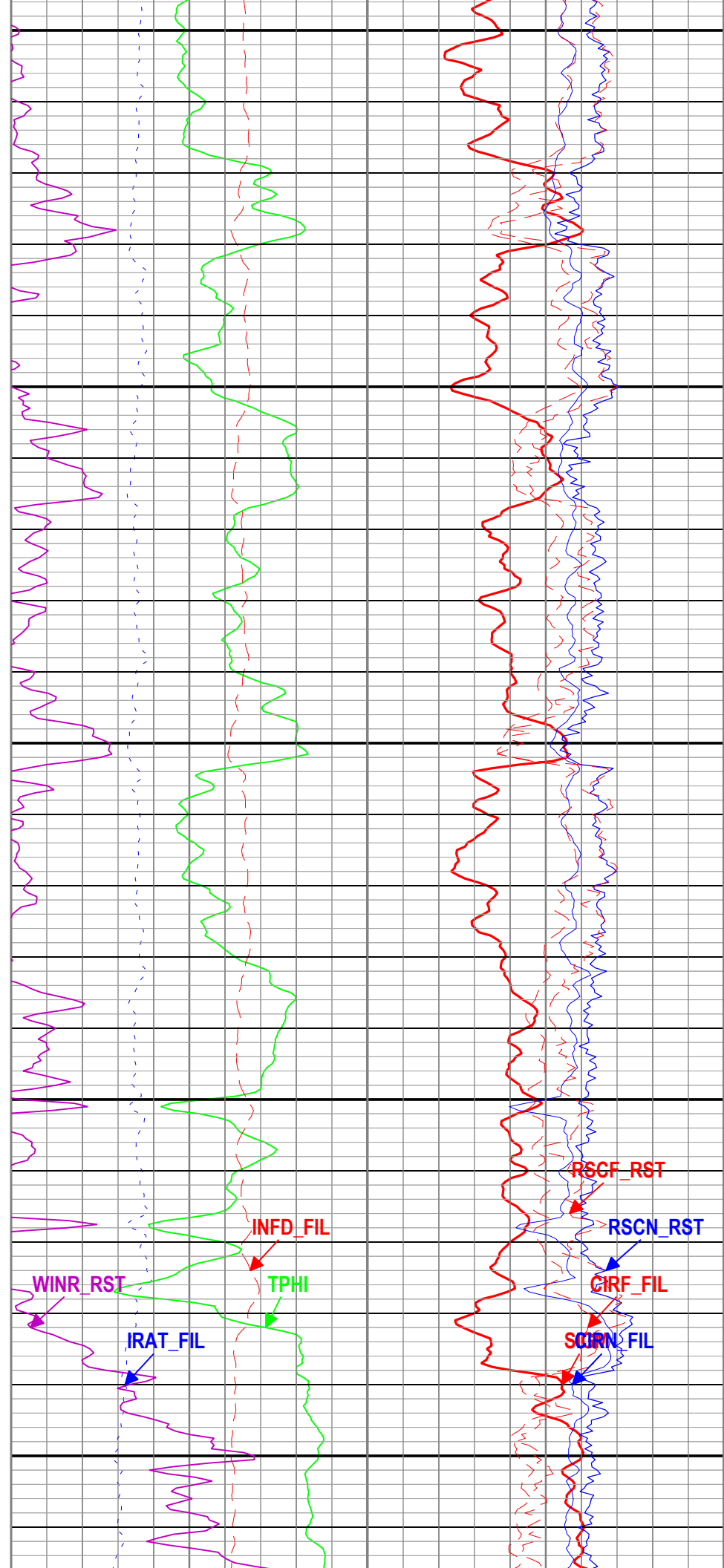
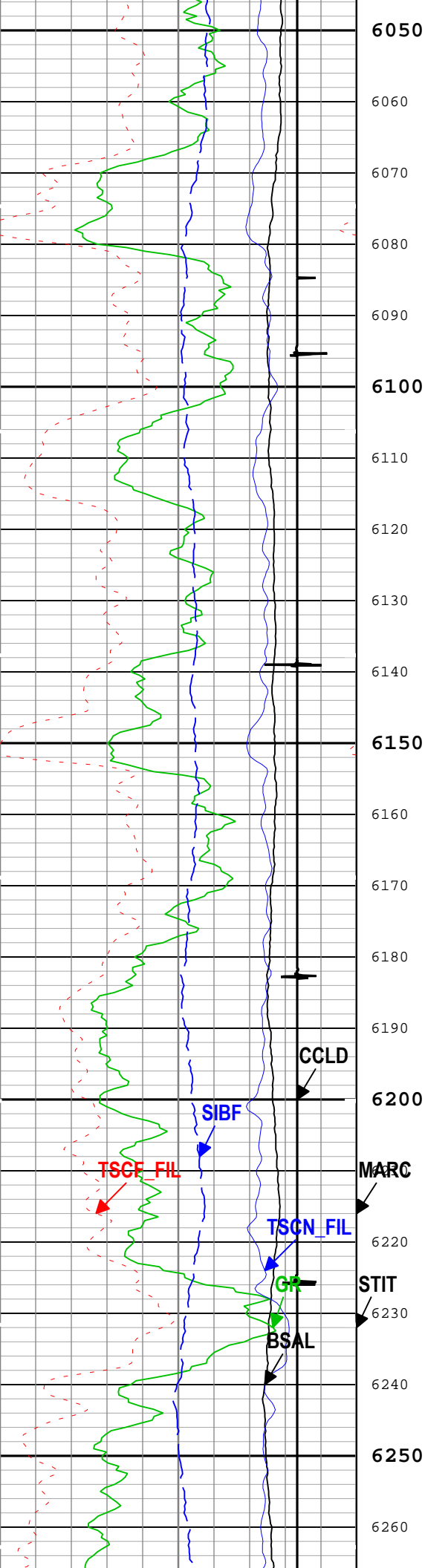


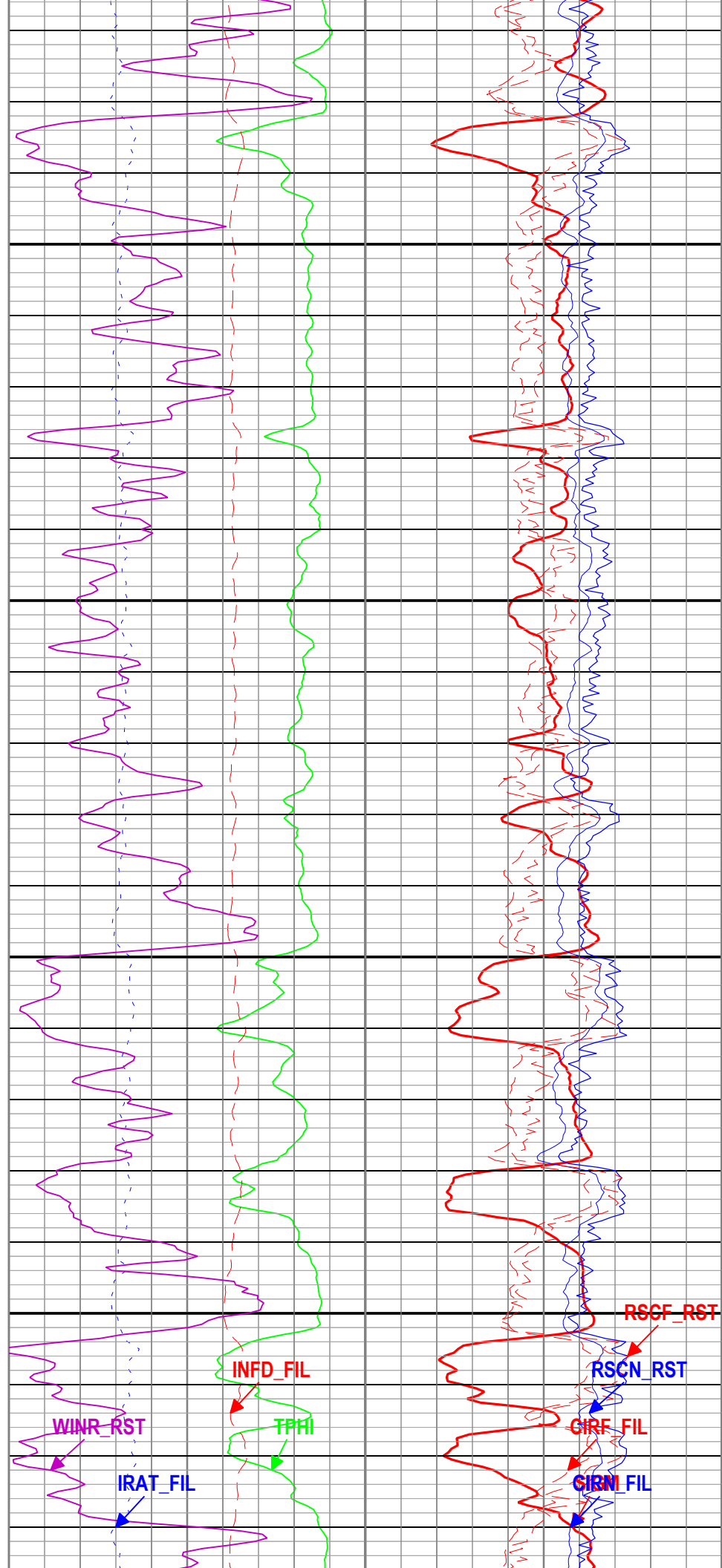
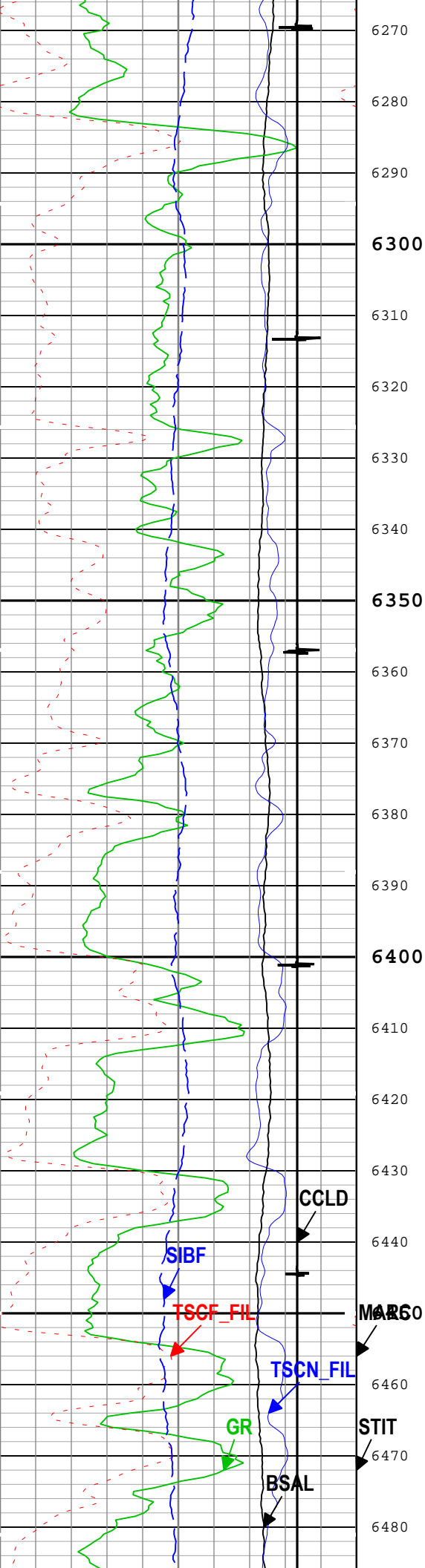


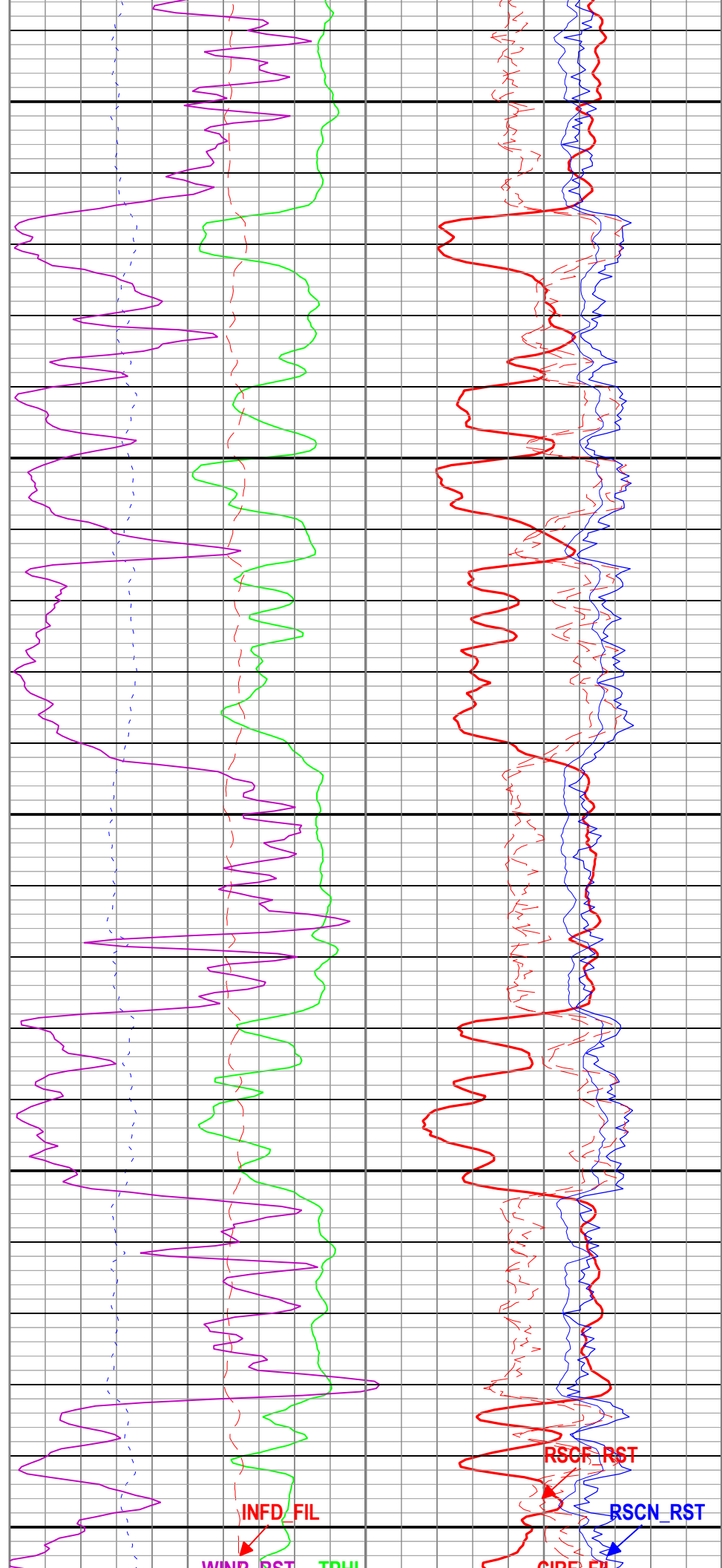
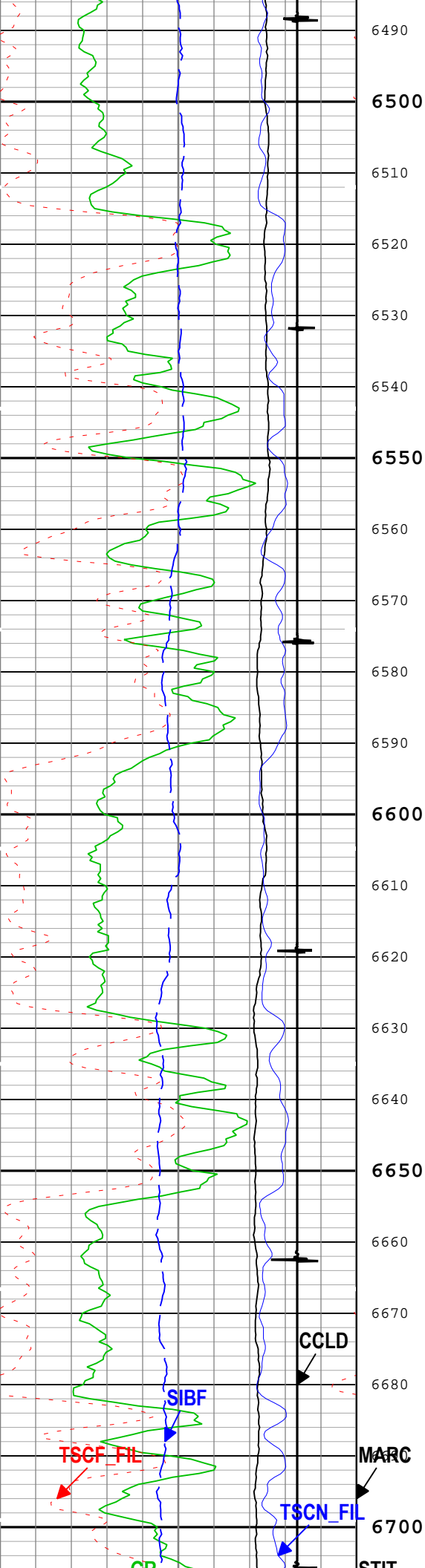


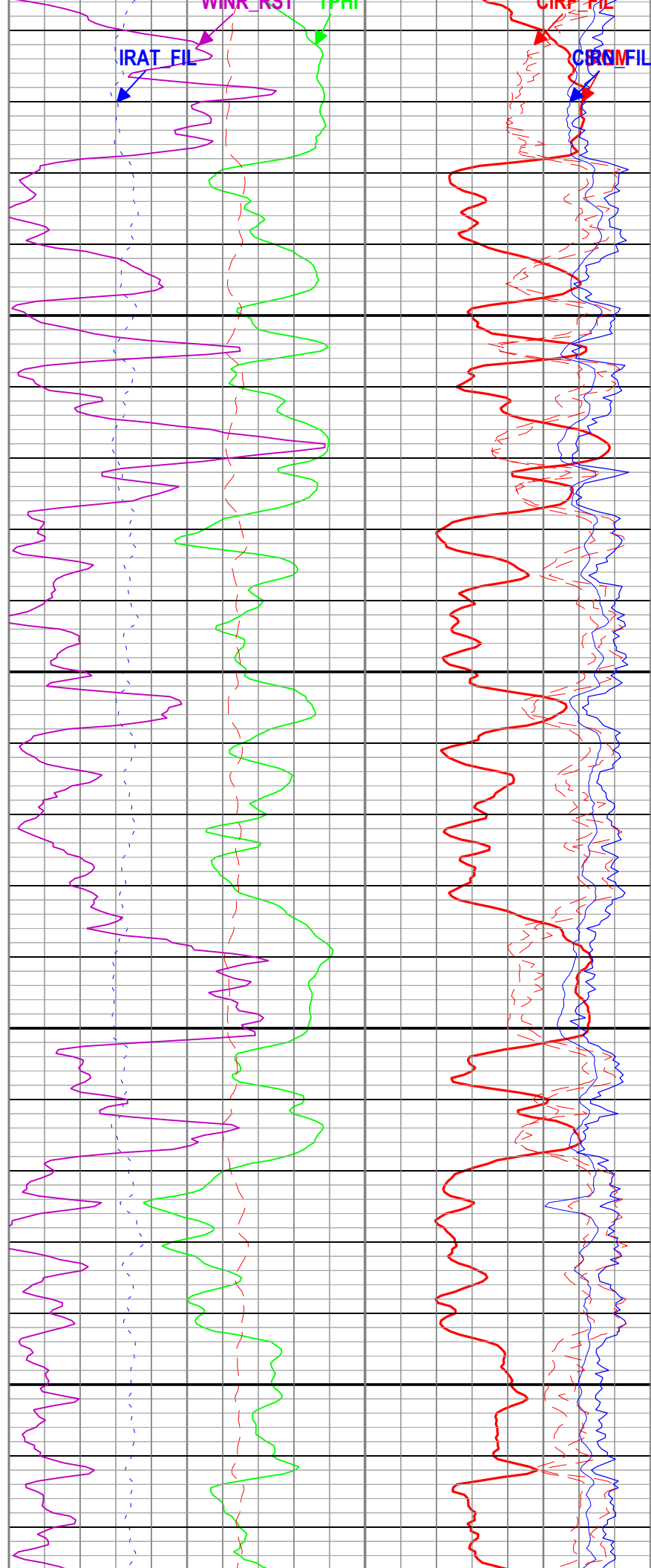
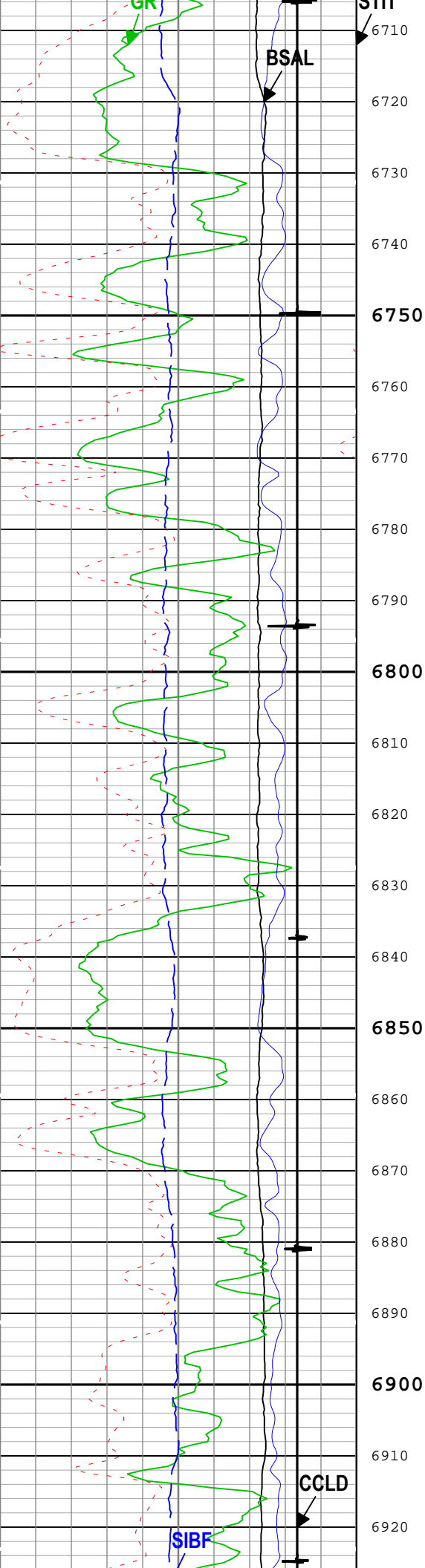


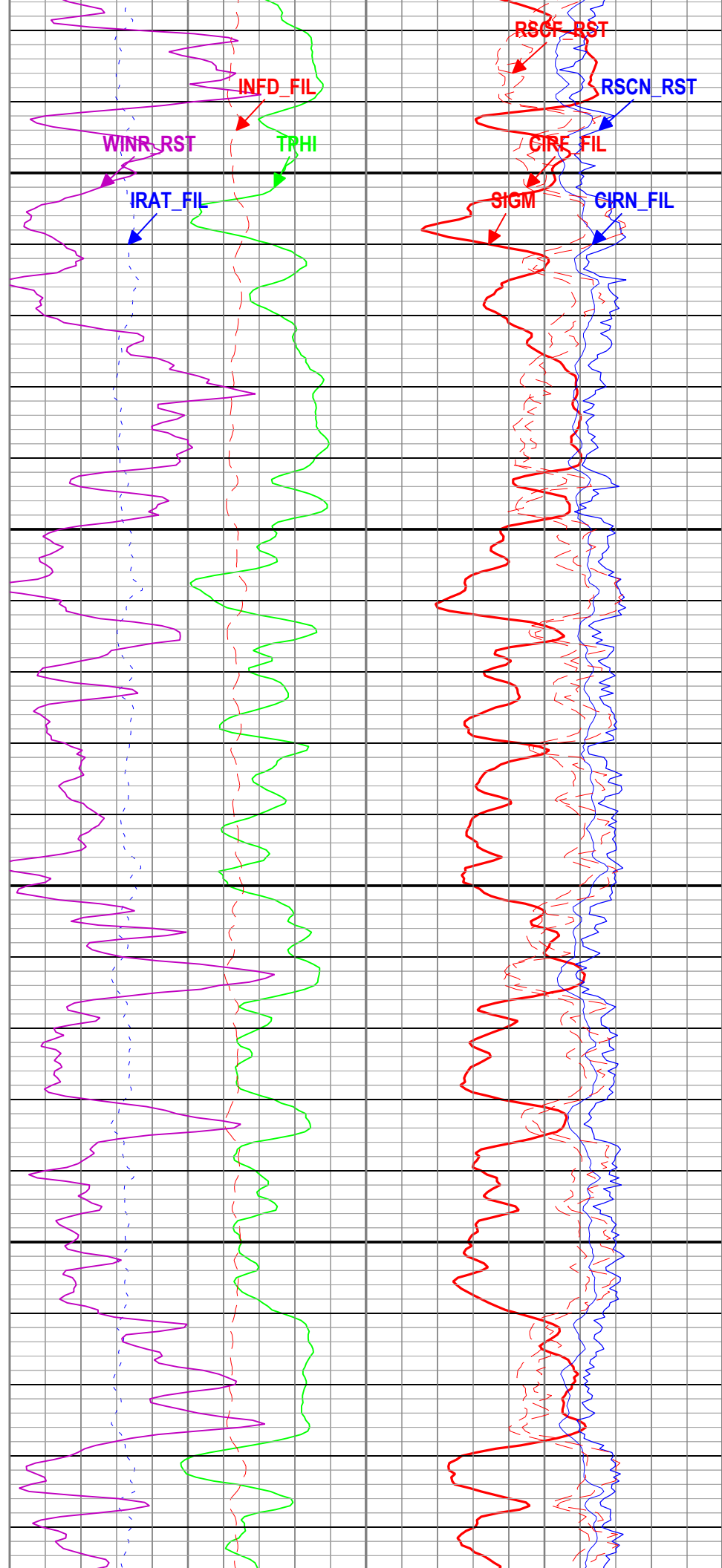
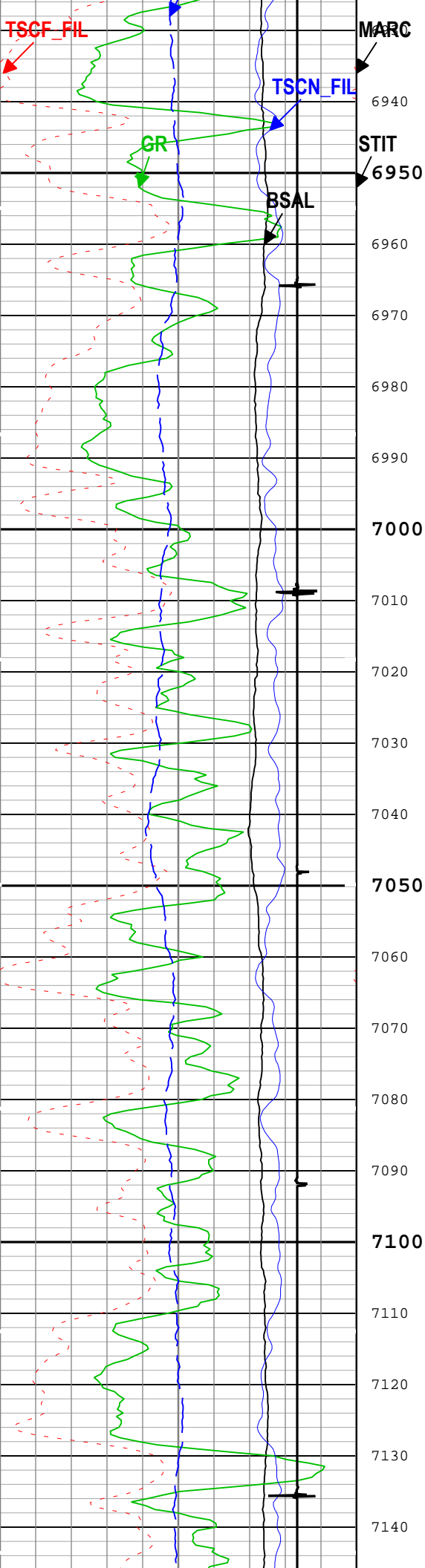


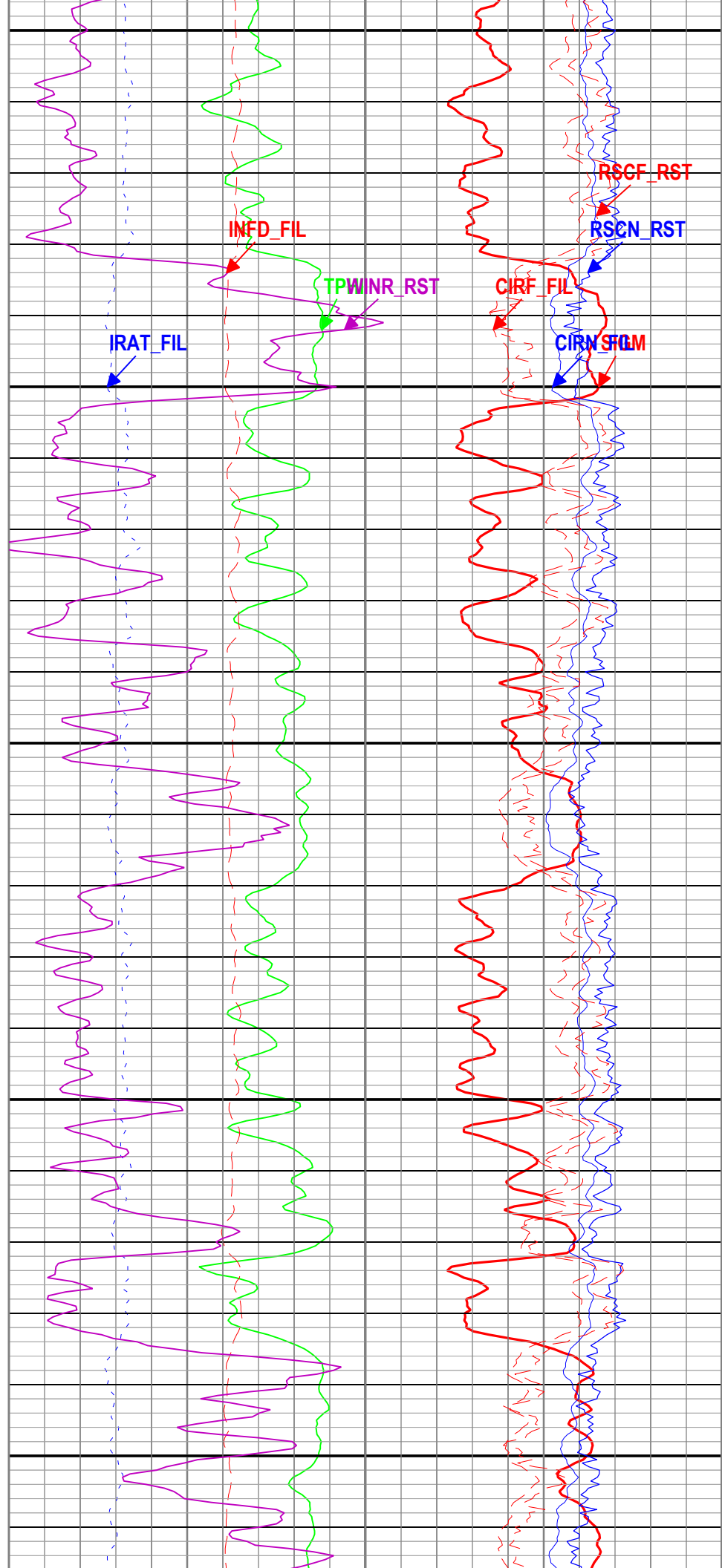
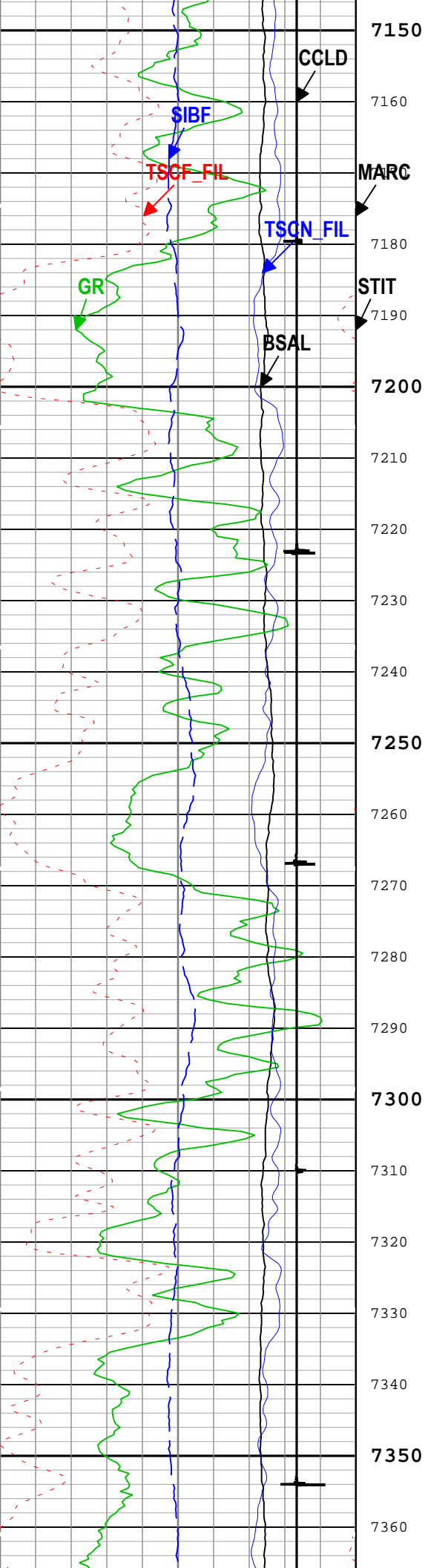


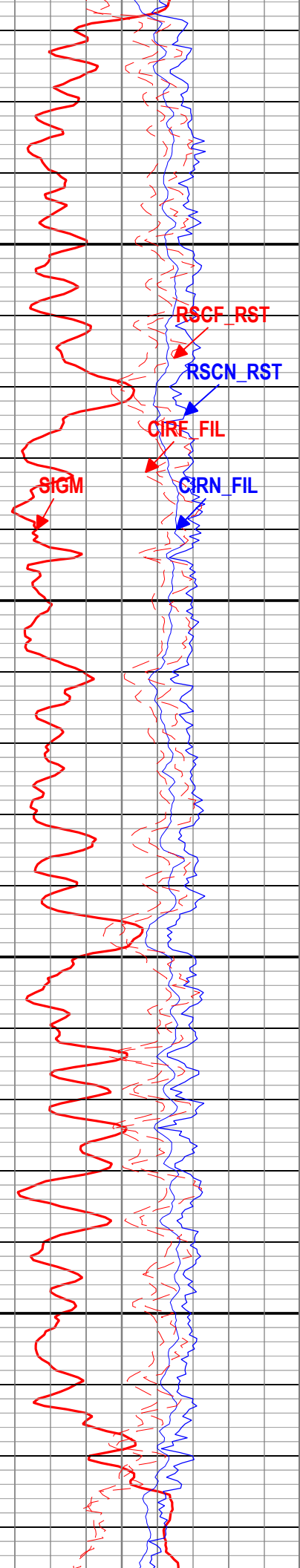
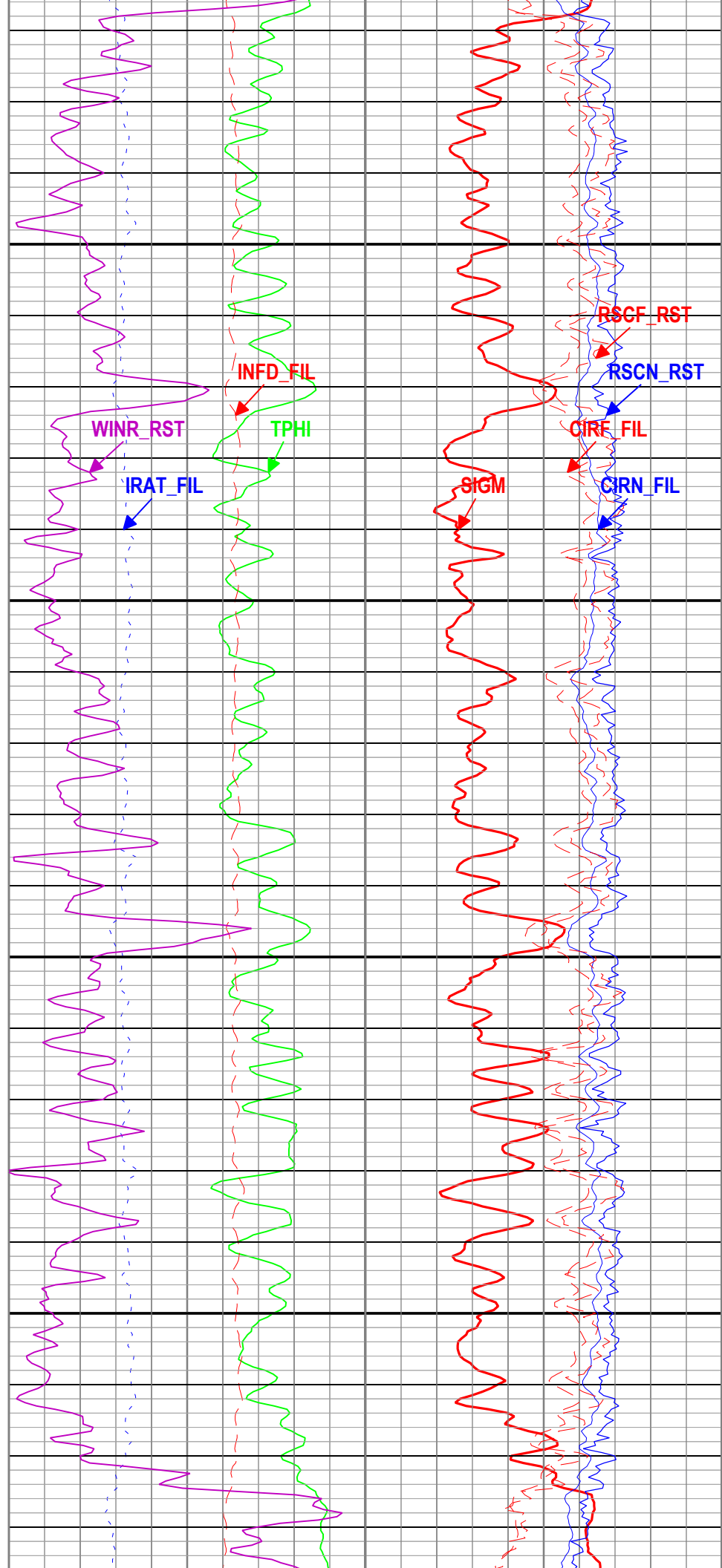
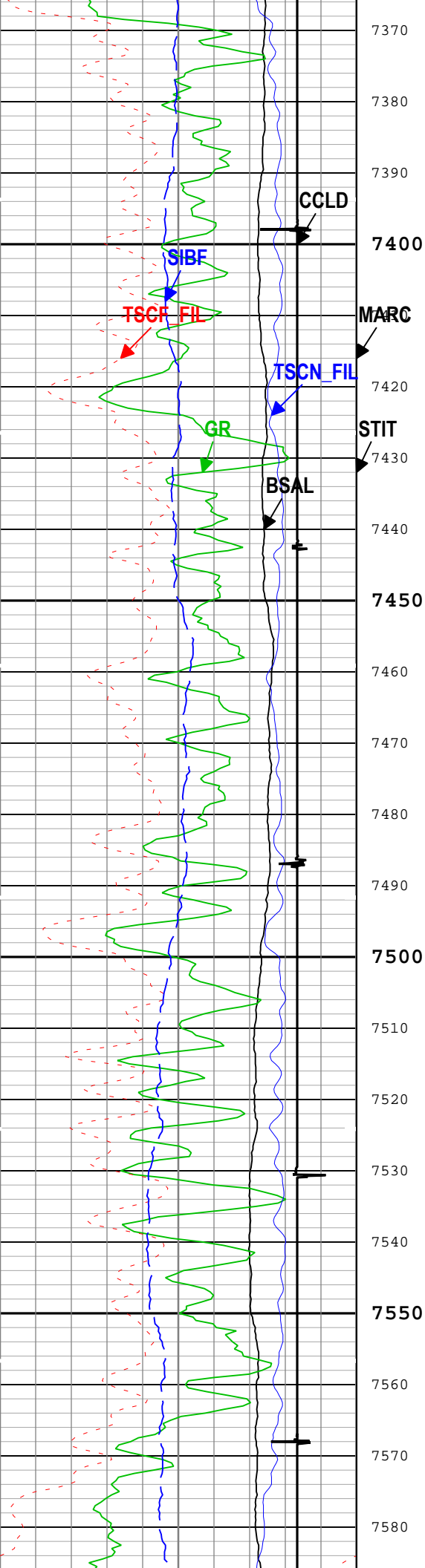


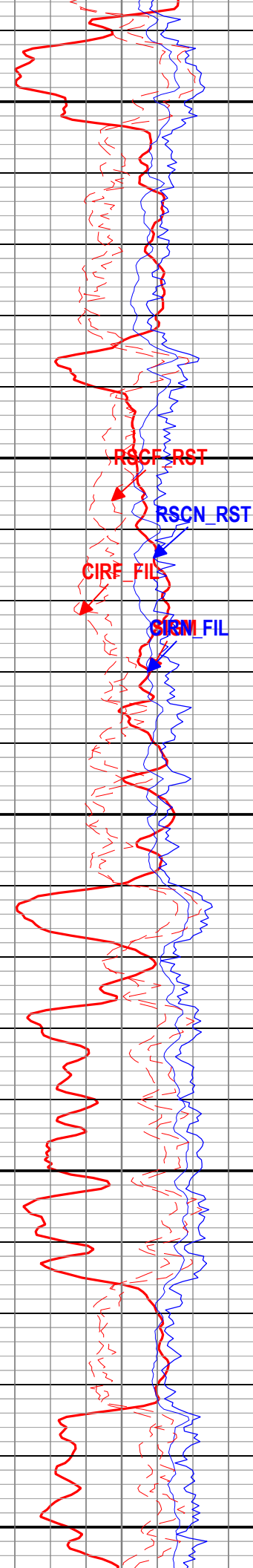
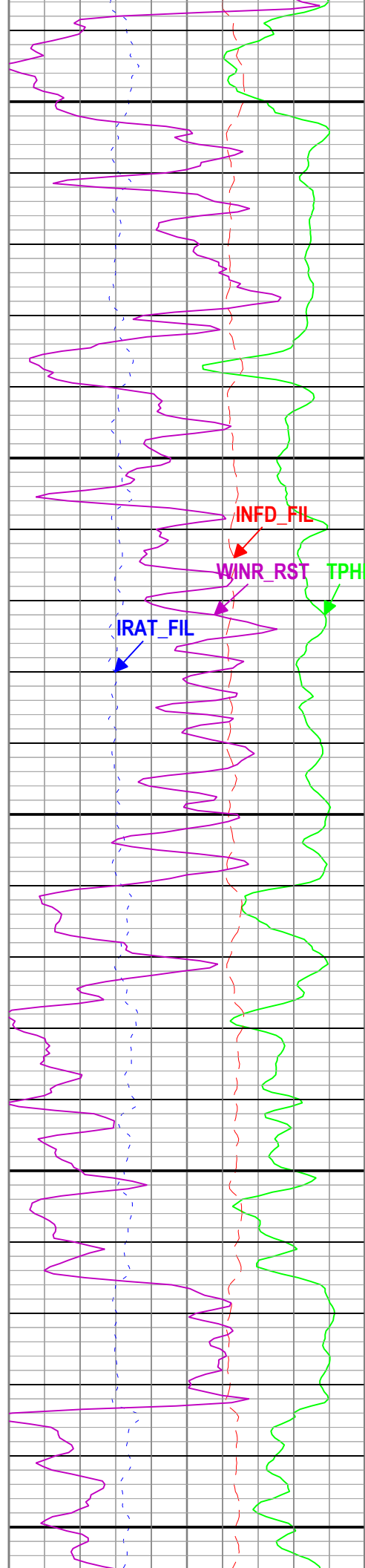
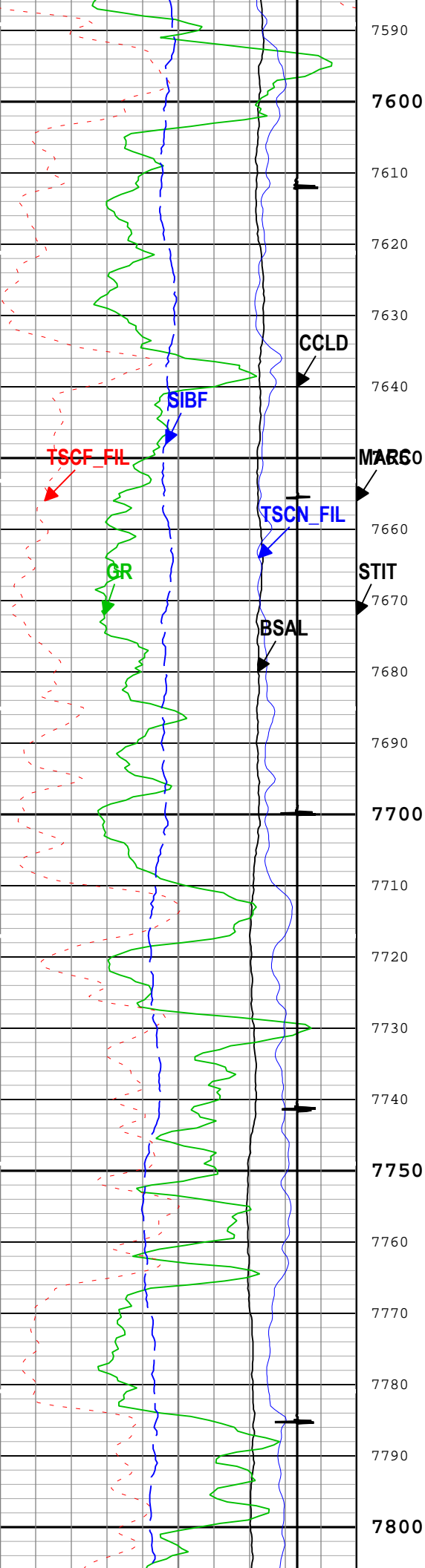


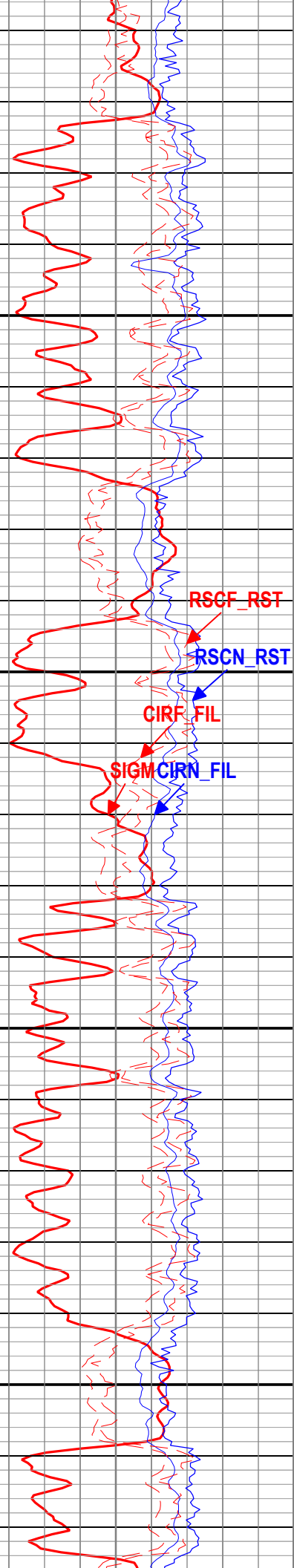
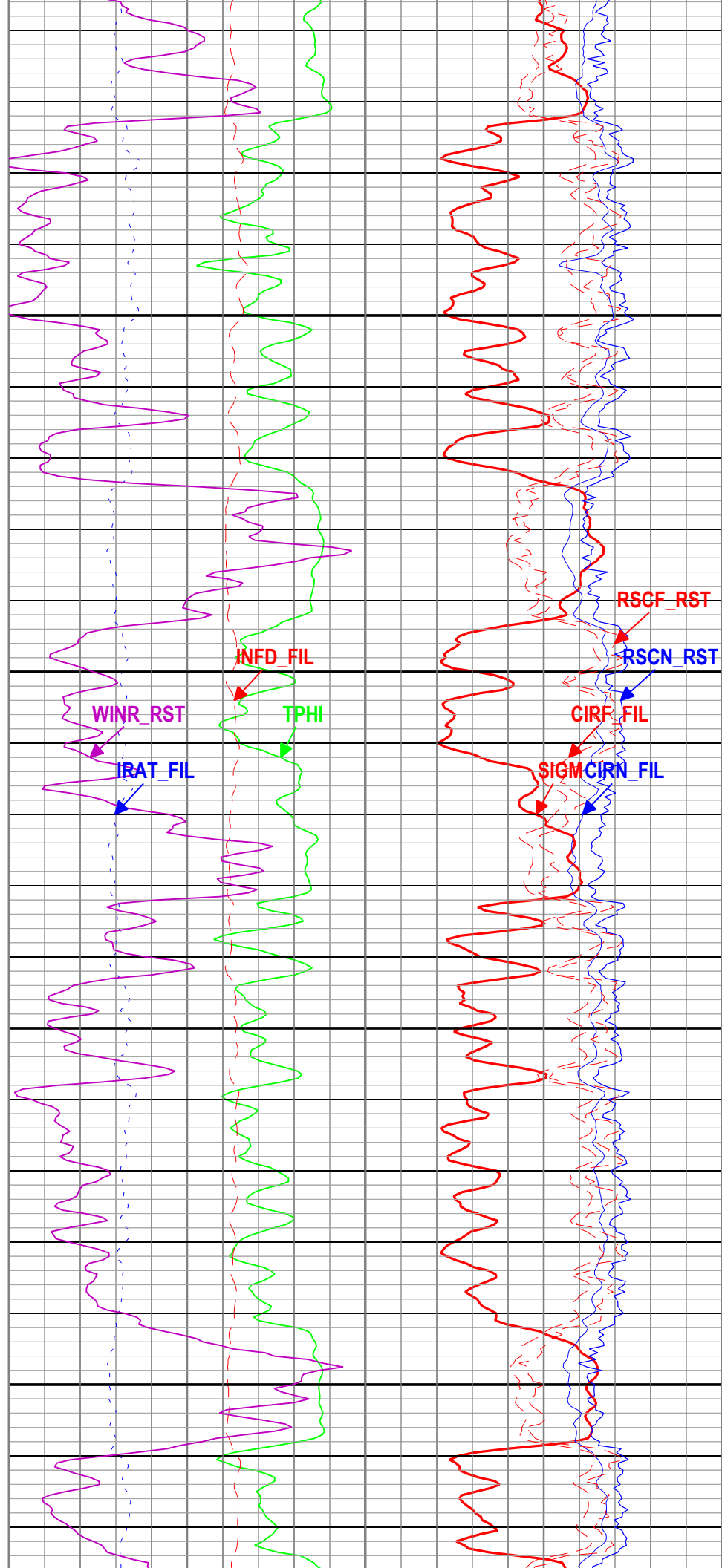
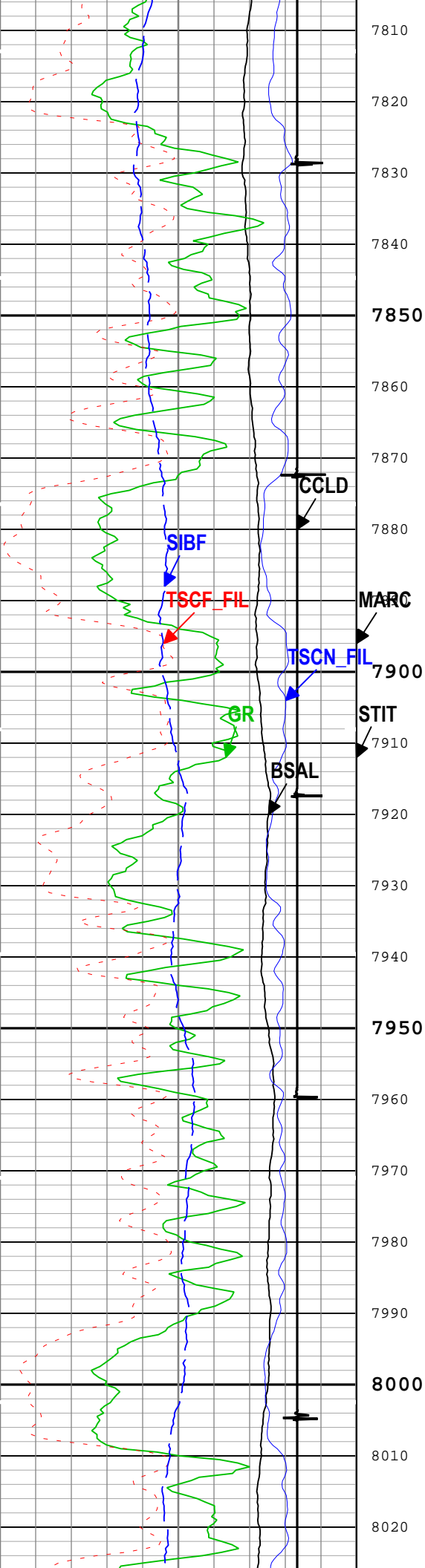


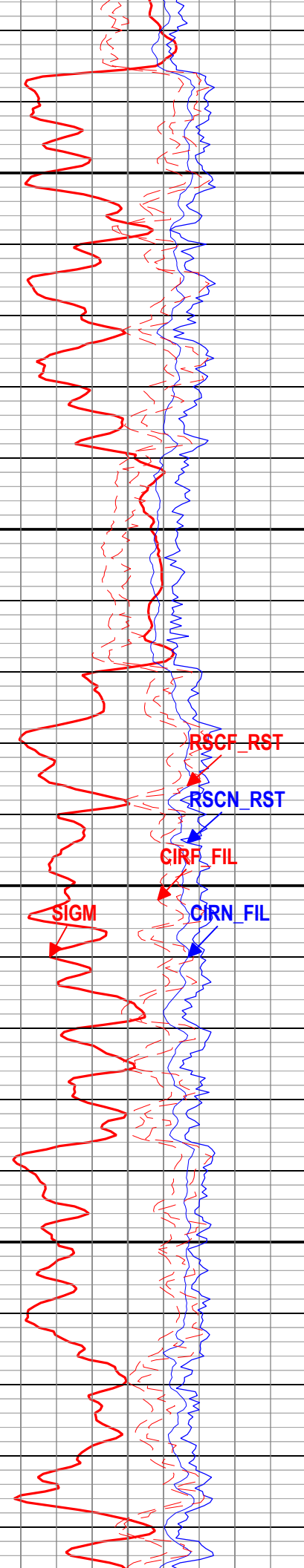
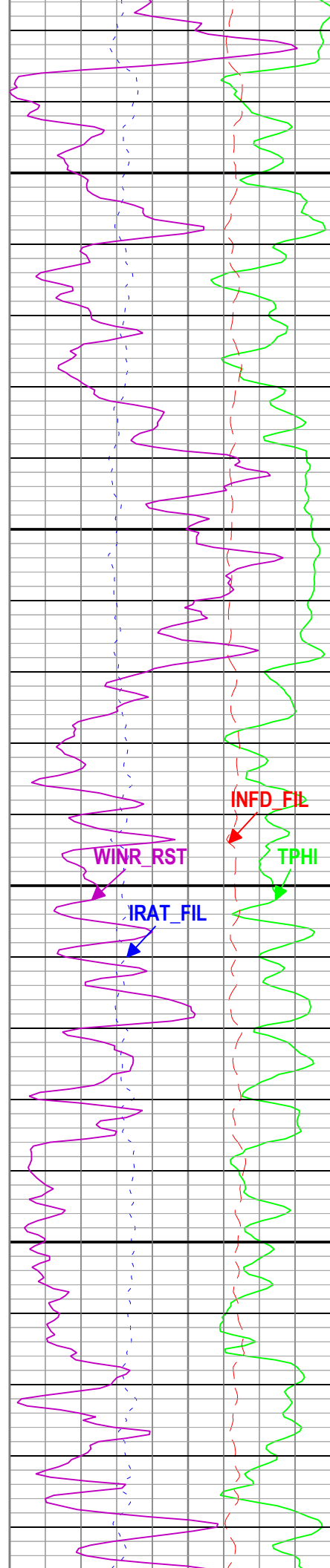
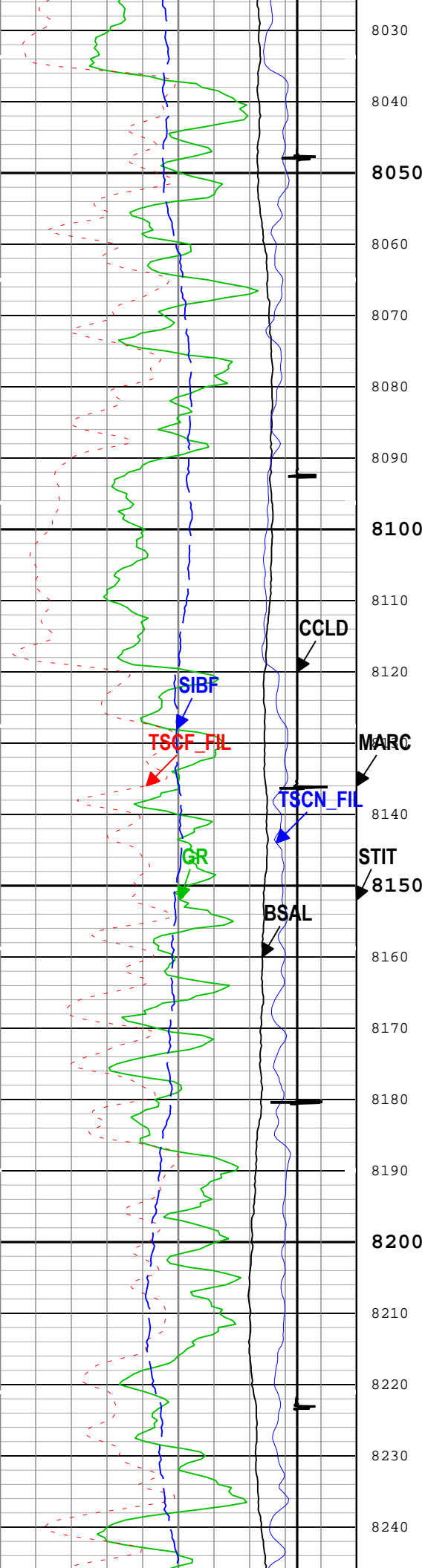


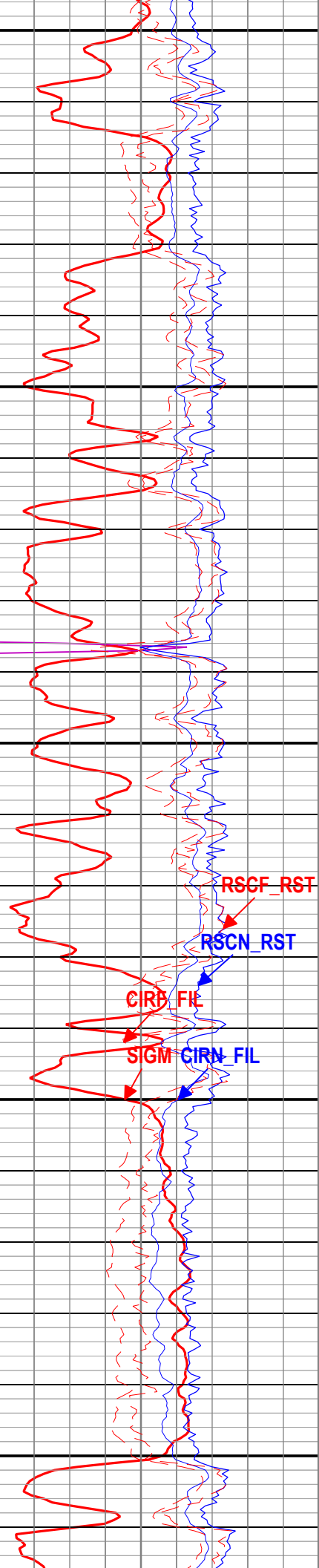
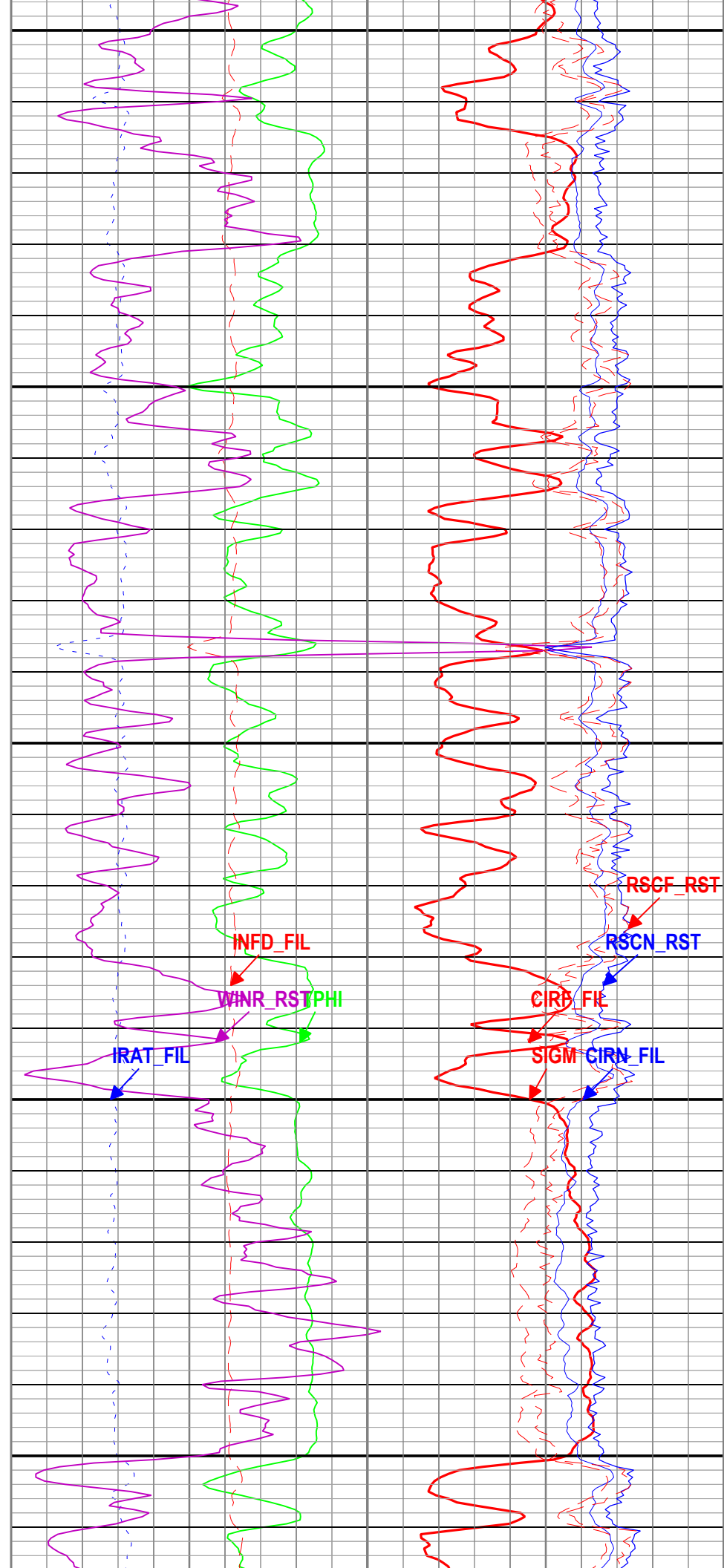
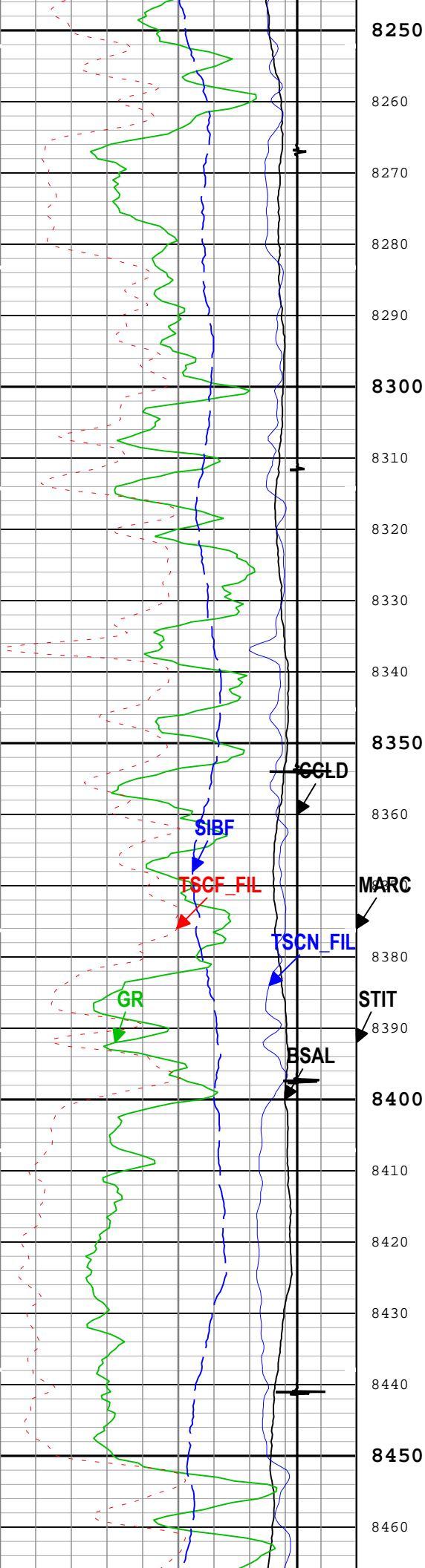


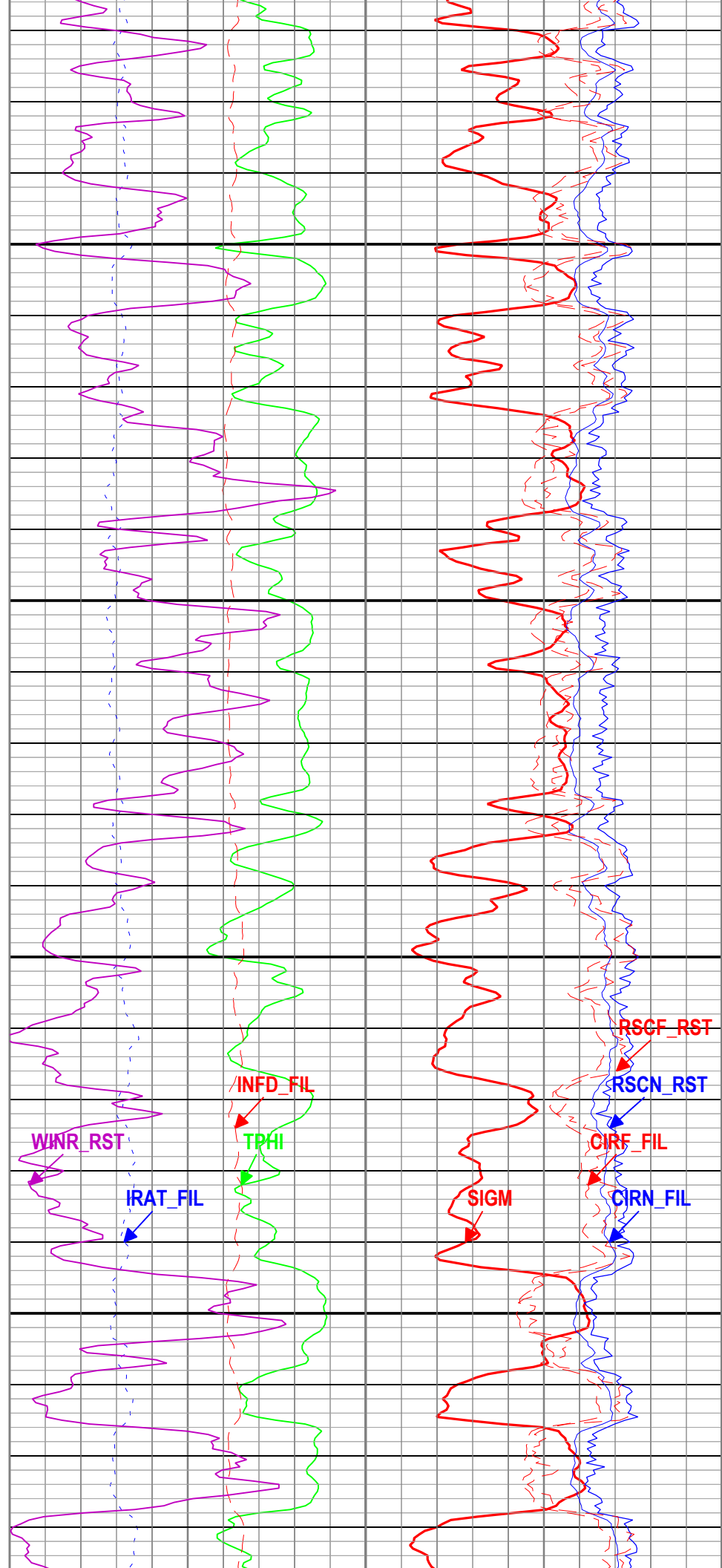
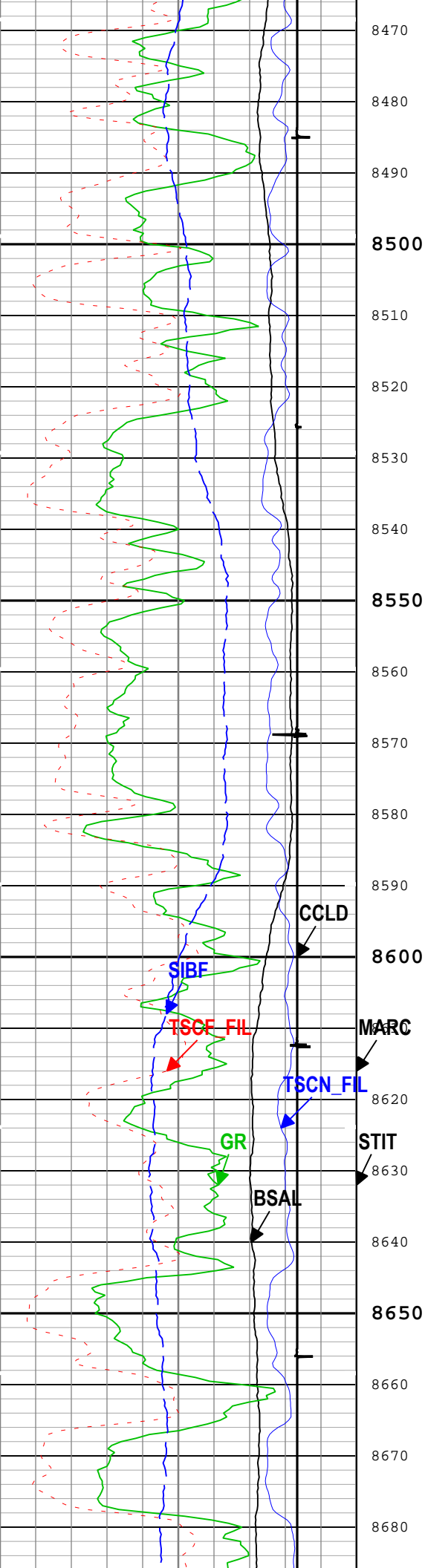


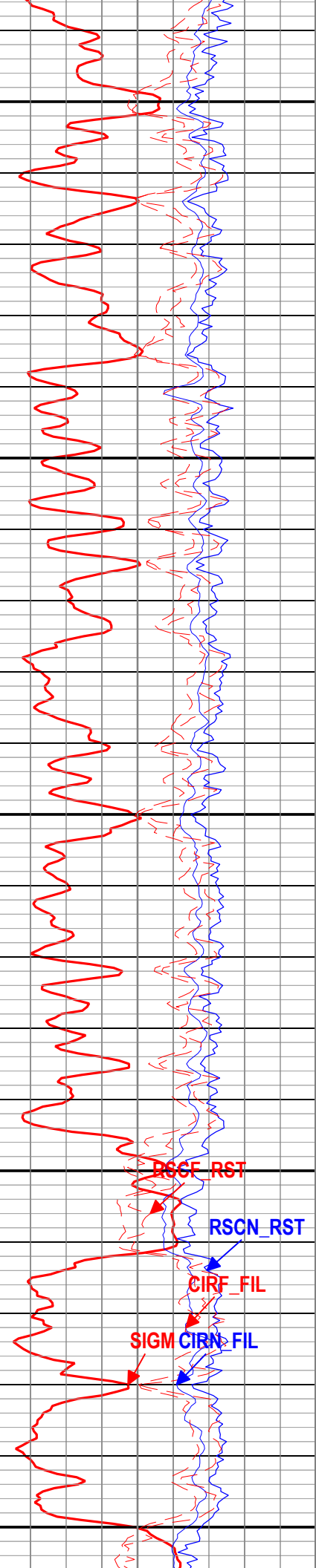
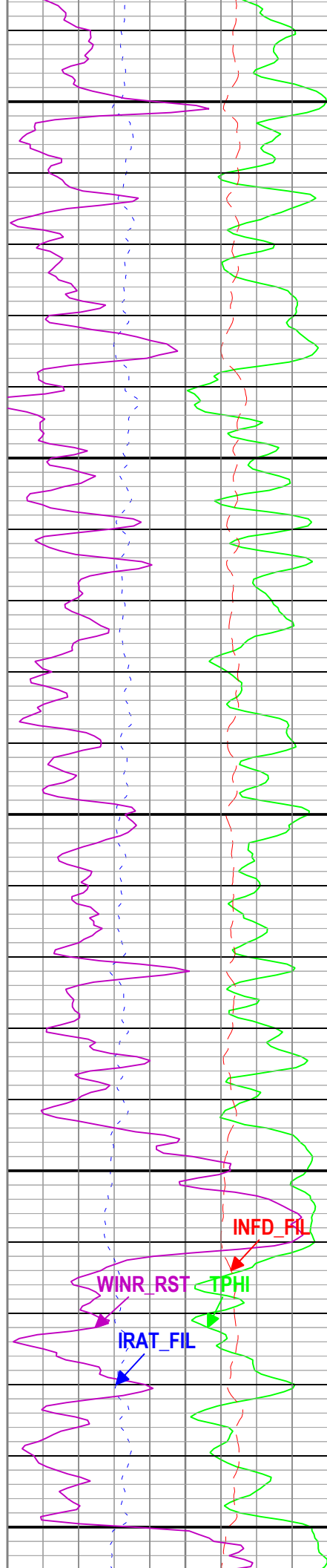
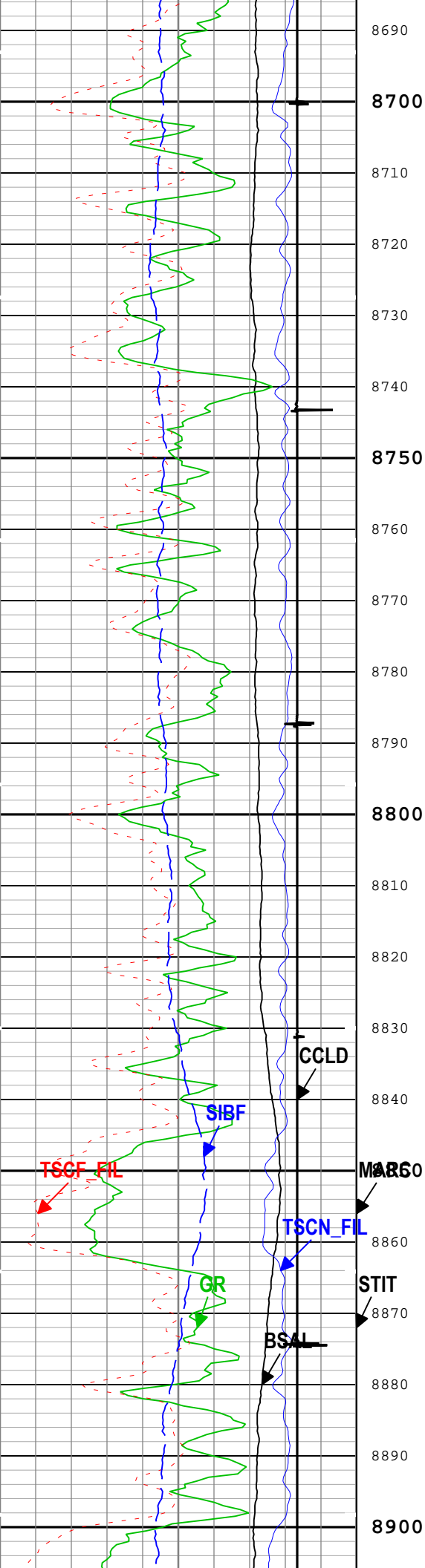


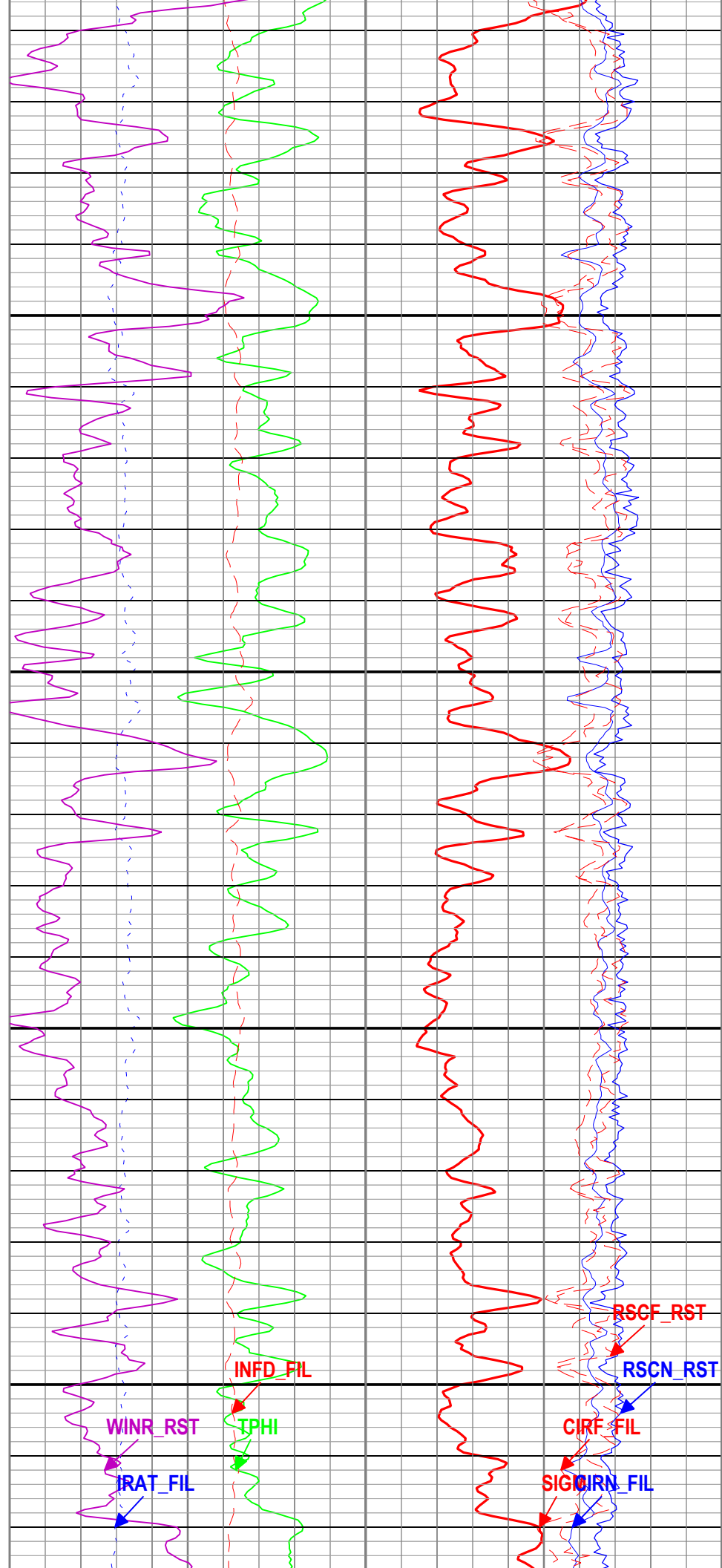
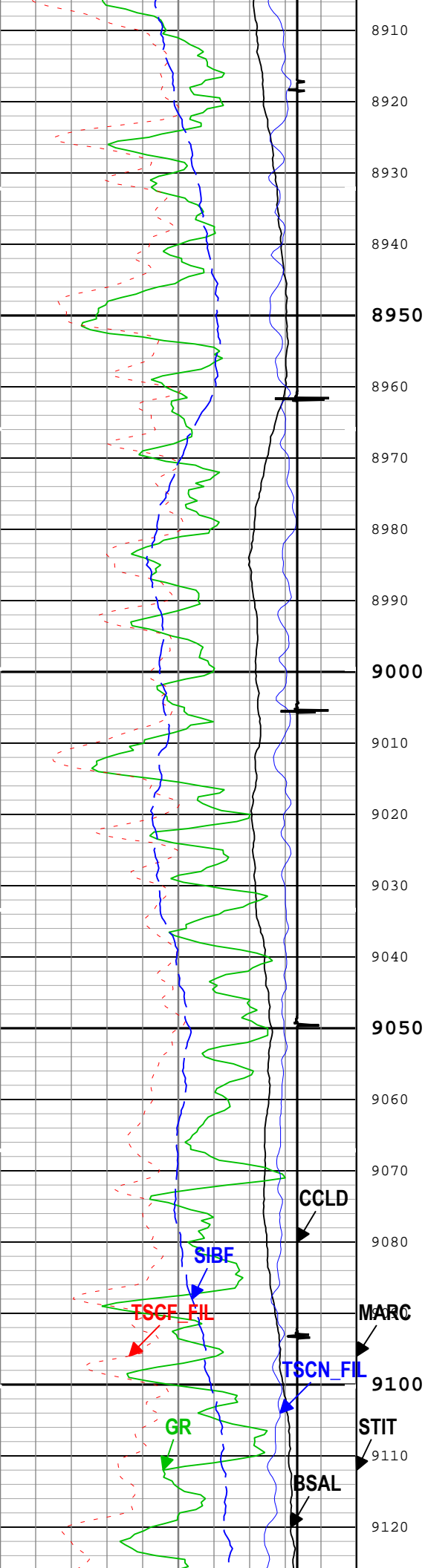


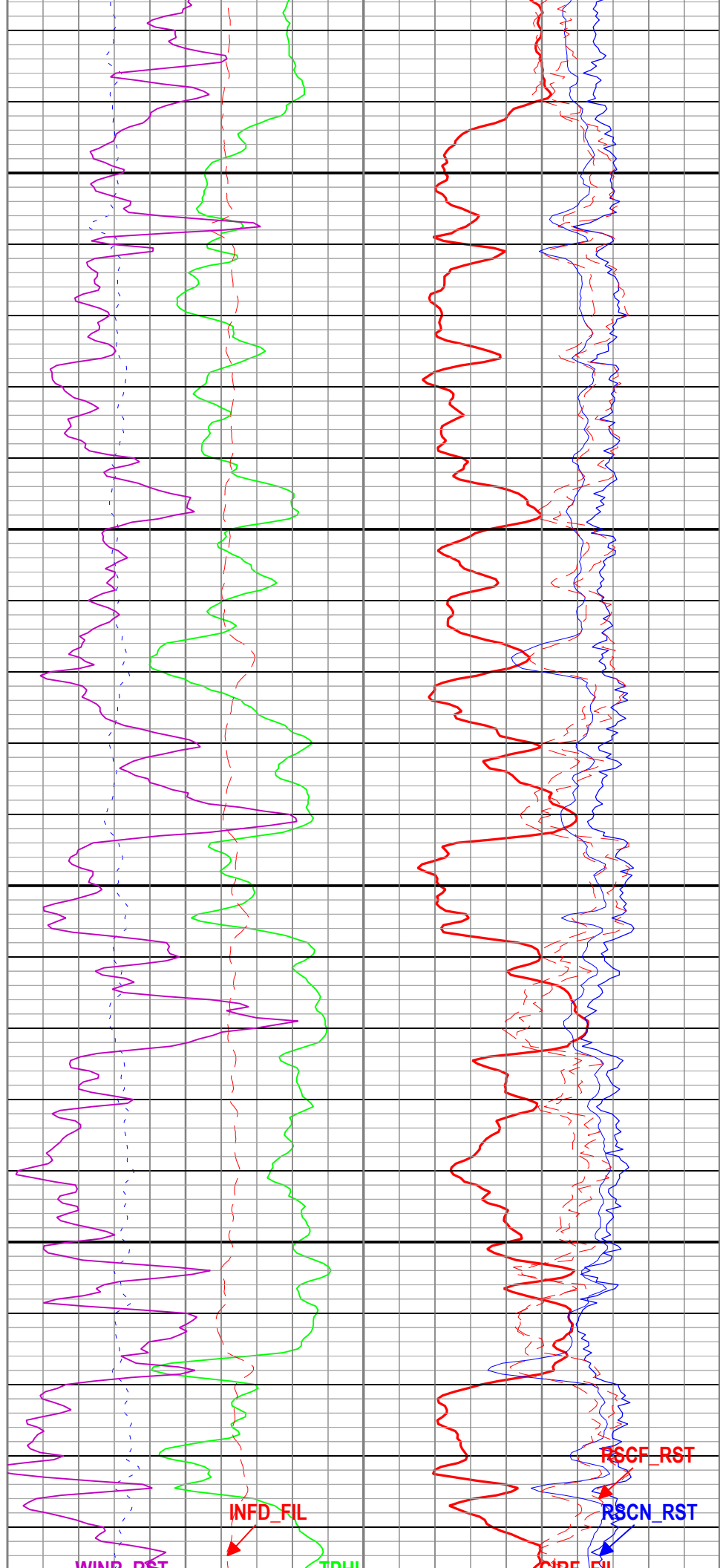
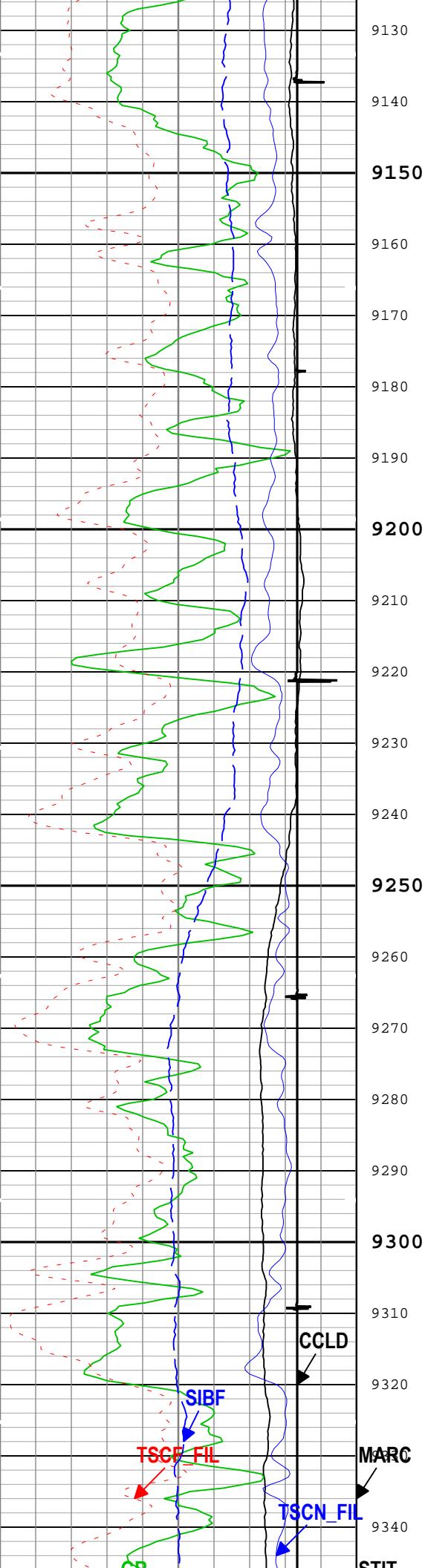


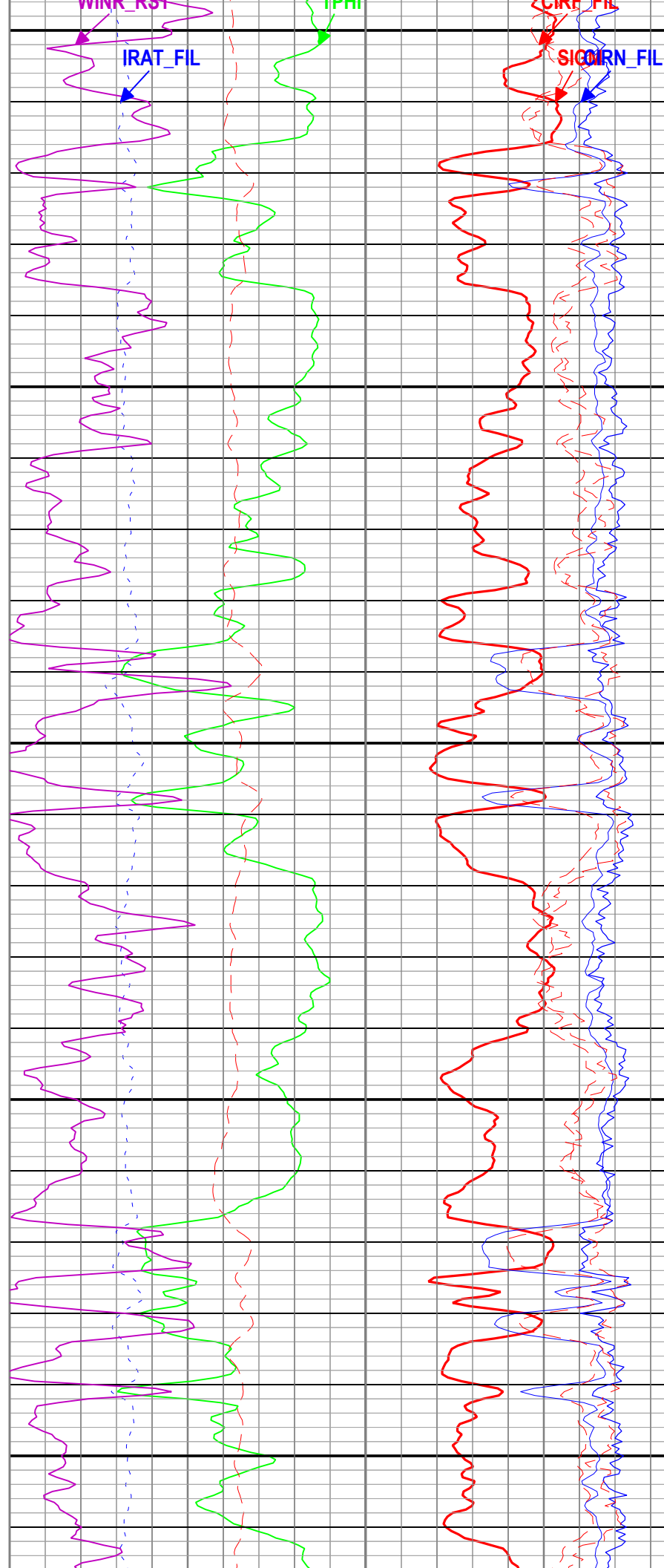
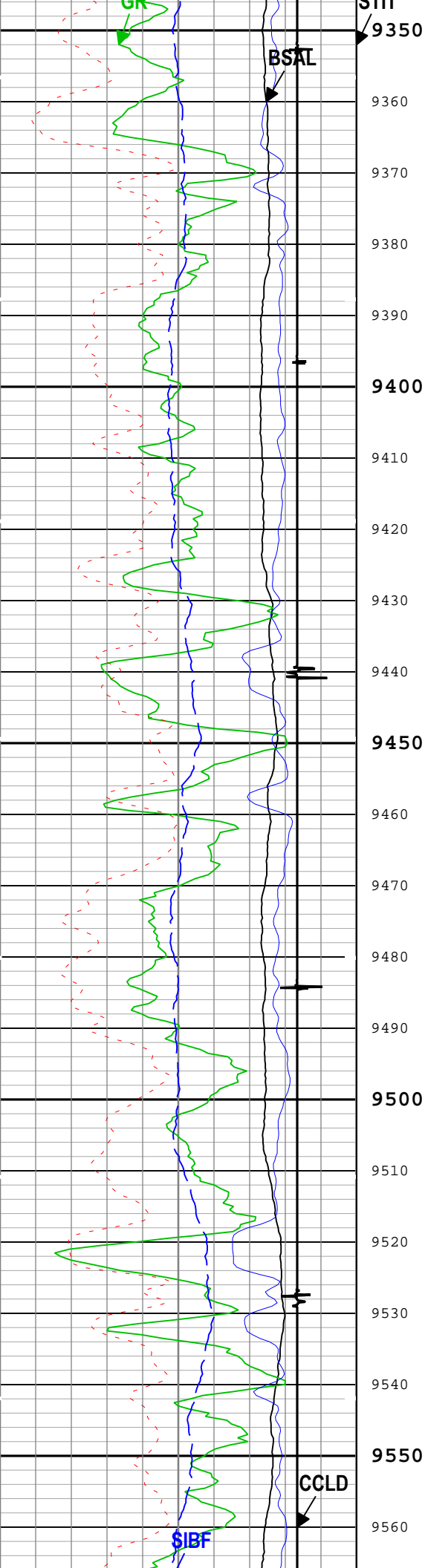


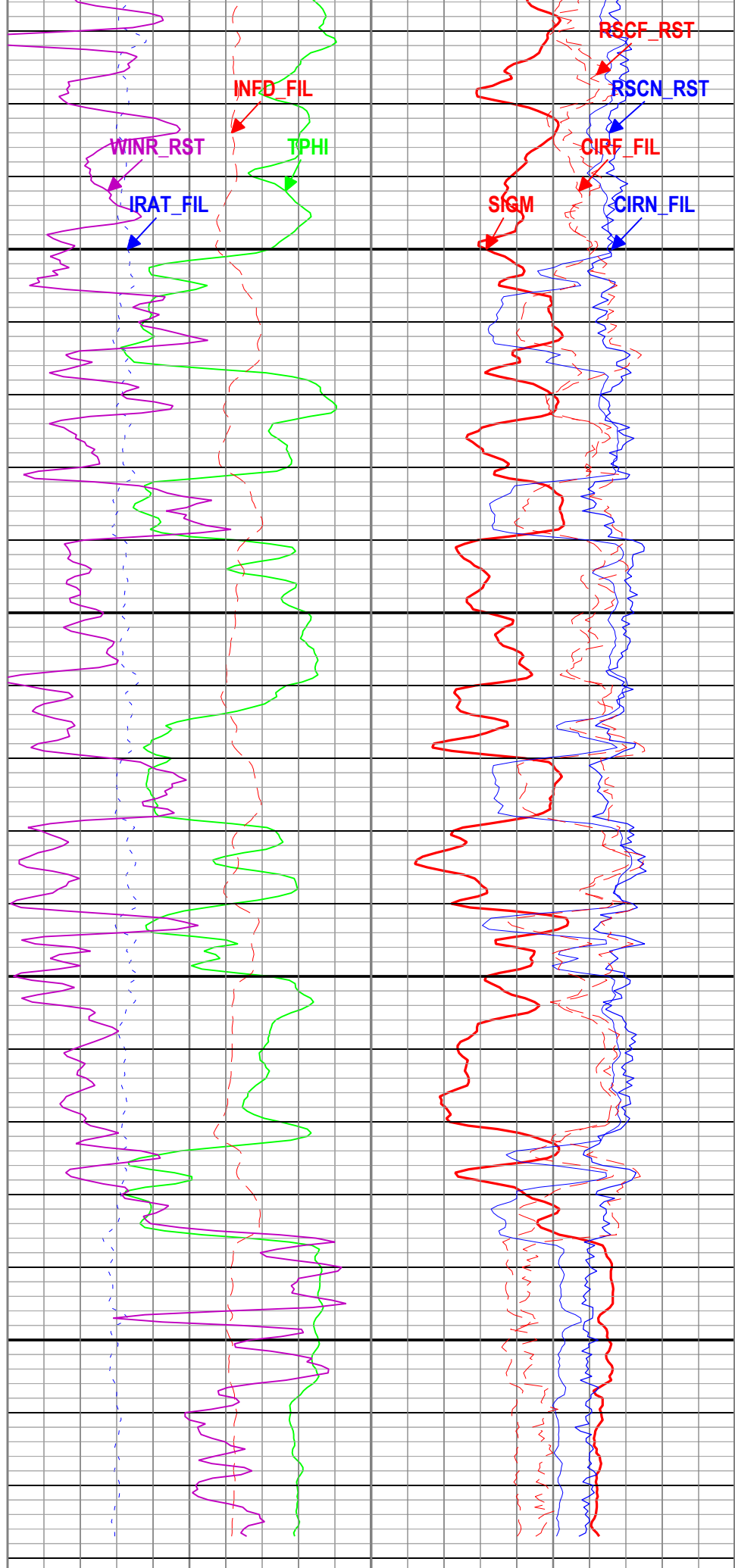
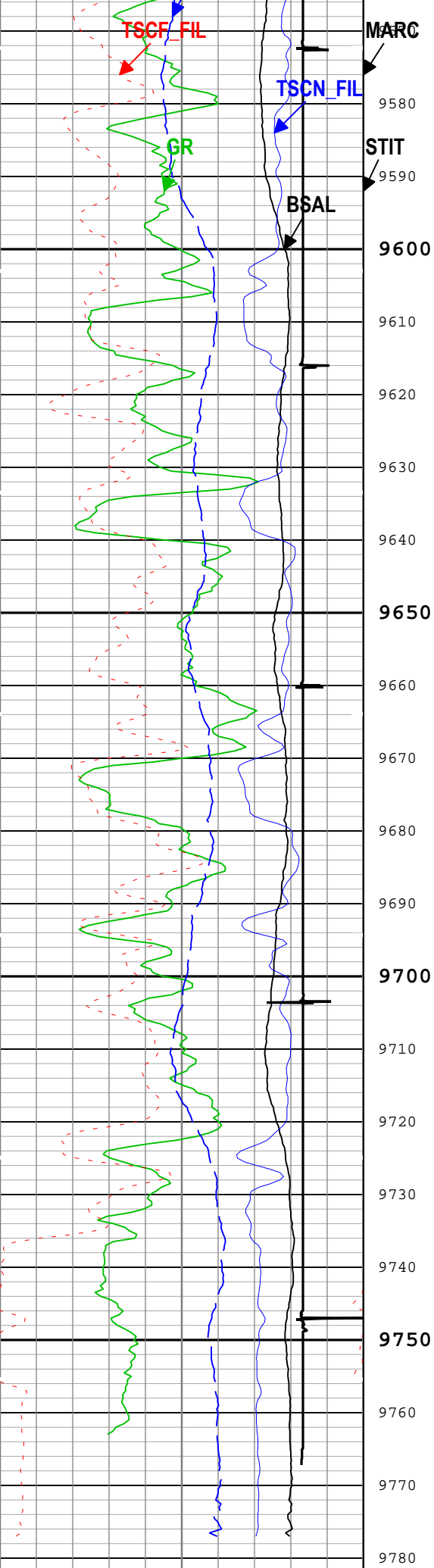












Borehole Salinity (BSAL) RST-C			Stuck Tool Indicator, Total (STIT)			Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C					
450	ppk	-50	0	ft	50	60	cu				0
Gamma Ray (GR) PSTP-B						Weighted Inelastic Ratio (WINR_RST) RST-C					
0	gAPI	150				0					0.4
Total Selected Count Rate Near Detector 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		5		
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		45		
CCL Discriminated Amplitude (CCLD) PSTP-B									Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C		
-5	V	1							45		
<p> ICV - Integrated Cement Volume every 100.00 (ft3)</p> <p> ICV - Integrated Cement Volume every 10.00 (ft3)</p> <p> IHV - Integrated Hole Volume every 100.00 (ft3)</p> <p> IHV - Integrated Hole Volume every 10.00 (ft3)</p> <p>TIME_1900 - Time Marked every 60.00 (s)</p> <p> TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)</p>											

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: 16-Sep-2018 05:24:38
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Channel Processing Parameters

One: Parameters

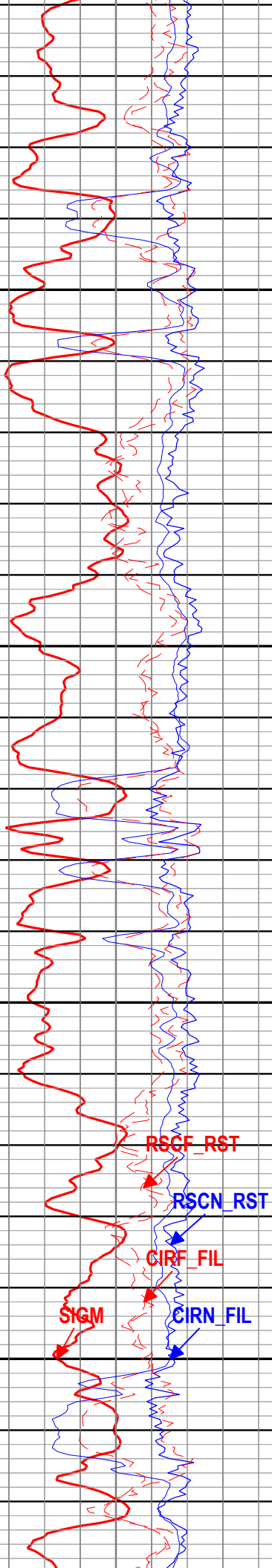
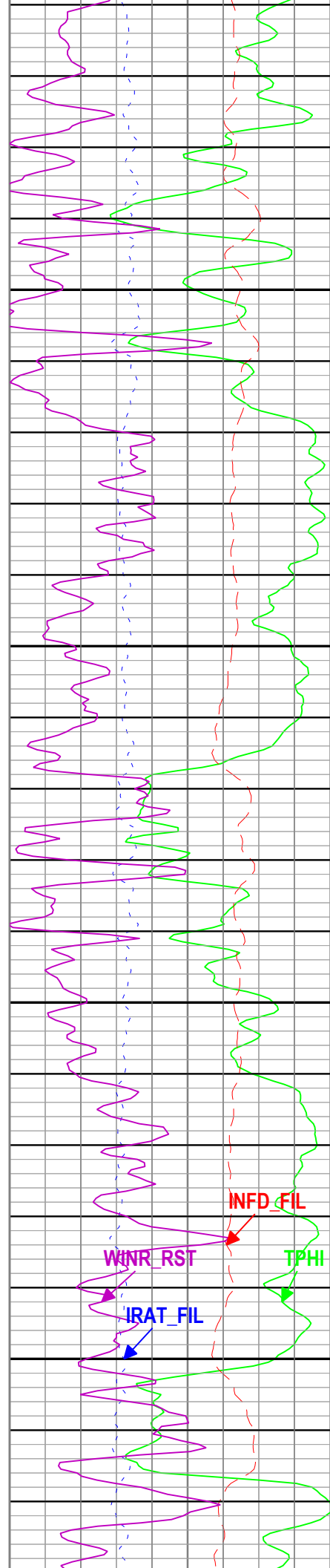
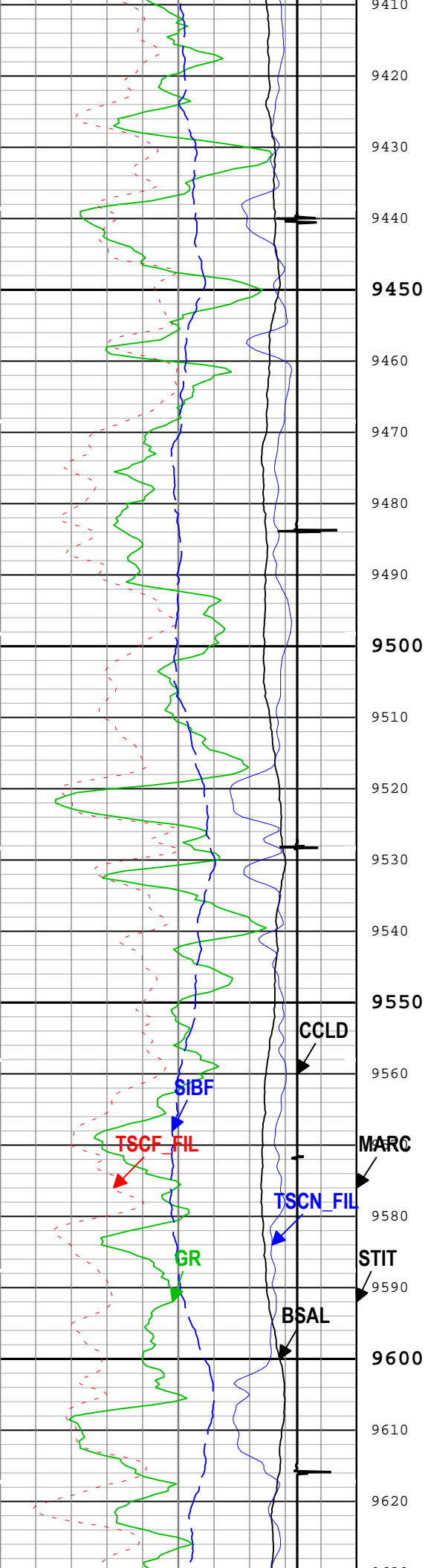
Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	0	ppm
BSALOPT	Borehole Salinity Option	RST-C	Unknown	
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
TD	Total Measured Depth	Borehole	9800	ft

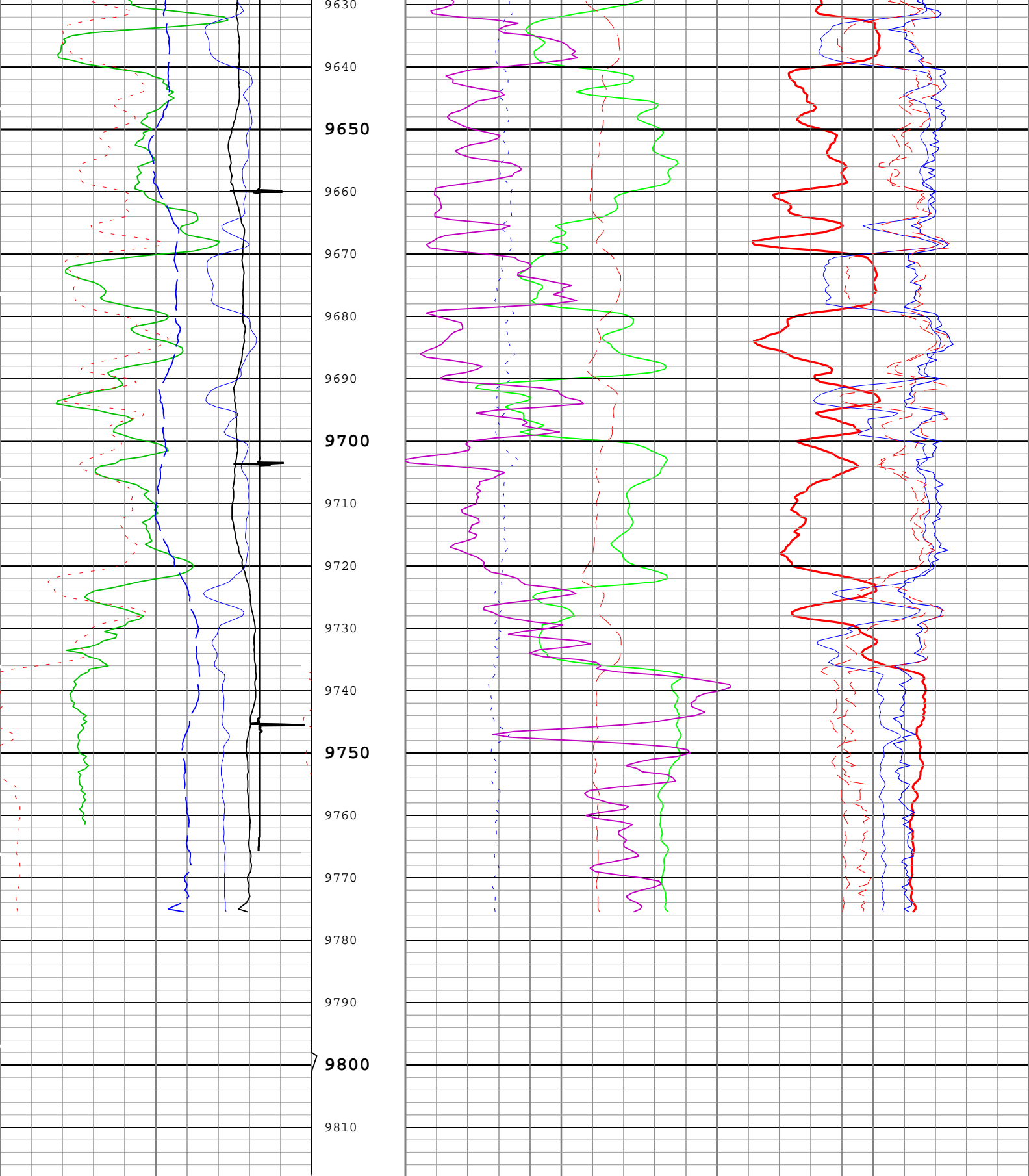
Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	14.75	2800	2992
BS	8.75	2992	9800

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-B		0 dB		
RST_DLM	Depth Log Mode				RST-C		Sigma		
One									
Repeat Pass									
Software Version									
Acquisition System						Version			
Maxwell 2017 SP3						7.3.92069.3100			
Application Patch						Wireline_Hotfix-RTDLIS-2017SP3_7.3.92363			
						Wireline_Hotfix-SML-2017SP3_7.3.101161			
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[2]:Up	Up	9408.28 ft	9817.98 ft	15-Sep-2018 12:15:59 PM	15-Sep-2018 12:30:37 PM	ON	9.29 ft	Yes
All depths are referenced to toolstring zero									
Log					Company:Caerus Operating LLC			Well:NPR 23C-10 596	
One: Log[2]:Up:S002									
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: 16-Sep-2018 05:24:48									
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)									
Borehole Salinity (BSAL) RST-C			Stuck Tool Indicator, Total (STIT)	Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C					
450	ppk	-50		2.5	0				
Gamma Ray (GR) PSTP-B			Cable Drag From STIA to STIT	Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C					
0	gAPI	150							
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		0.75	0				
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C			Minitron Arc Count (MARC) RST-C	Thermal Decay Porosity (TPHI) RST-C					
12000	1/s	0		0.6	45				
Sigma Borehole Fluid (SIBF) RST-C				Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C					
100	cu	0		10000	45				
CCL Discriminated Amplitude (CCLD) PSTP-B				Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C					
-5	V	1		0	0				
				Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C					
				60 cu 0					
				Weighted Inelastic Ratio (WINR_RST) RST-C					
				0 0.4					





Borehole Salinity (BSAL) RST-C		Stuck Tool Indicator, Total (STIT)	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C	
450	ppk		60	cu
Gamma Ray (GR) PSTP-B		0 ft 50	Weighted Inelastic Ratio (WINR_RST) RST-C	
0	gAPI		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		0.75	2.5

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	
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
TD	Total Measured Depth	Borehole	9800	ft
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-B	0 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

Company:	Caerus Operating LLC	Schlumberger
Well:	NPR 23C-10 596	
Field:	NPR	
County:	Garfield	
State:	Colorado	
Cement Bond Log		
RST Sigma Log		
Gamma Ray - Collar Locator		