

Company: Caerus Operating LLC

Well: NPR 13D-10 596

Field: NPR

County: Garfield State: Colorado

Cement Bond Log

RST Sigma Log

Gamma Ray - Collar Locator Log

Location: K10-596
Well: NPR 13D-10 596
Company: Caerus Operating LLC

Location:	K10-596		Elev.:	K.B. 6733.00 ft
Permanent Datum:	Ground Level		G.L. 6709.00 ft	
Log Measured From:	Kelly Bushing	24.00 ft	D.F. 6733.00 ft	
Drilling Measured From:	Kelly Bushing			
API Serial No.	Section:	Township:	Range:	
05045237790000	10	5S	96W	

Logging Date: 07-Sep-2018

Run Number: ONE

Depth Driller: 9453.00 ft

Schlumberger Depth: 9455.00 ft

Bottom Log Interval: 9455.00 ft

Top Log Interval: 2300.00 ft

Casing Fluid Type: 2% KCL Water

Salinity: 285.3 ppm

Density: 8.5 lbm/gal

Fluid Level: 8.00 ft

BIT/CASING/TUBING STRING

Bit Size: 8.75 in

From: 2400.00 ft

To: 9455.00 ft

Casing/Tubing Size: 4.5 in

Weight: 11.6 lbm/ft

Grade: P110

From: 0.00 ft

To: 9453.00 ft

Max Recorded Temperatures: 285.3 degF

Logger on Bottom: 07-Sep-2018 07:45:00

Unit Number: 3108 Location: Arona Ndlaye

Recorded By: Evanston, WY

Witnessed By: Richard Woods Trent Ray

Disclaimer

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

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9.4 Log (Sonic CBL with VDL)

9.5 Parameter Listing

10. ONE

10.1 Integration Summary

10.2 Software Version

10.3 Composite Summary

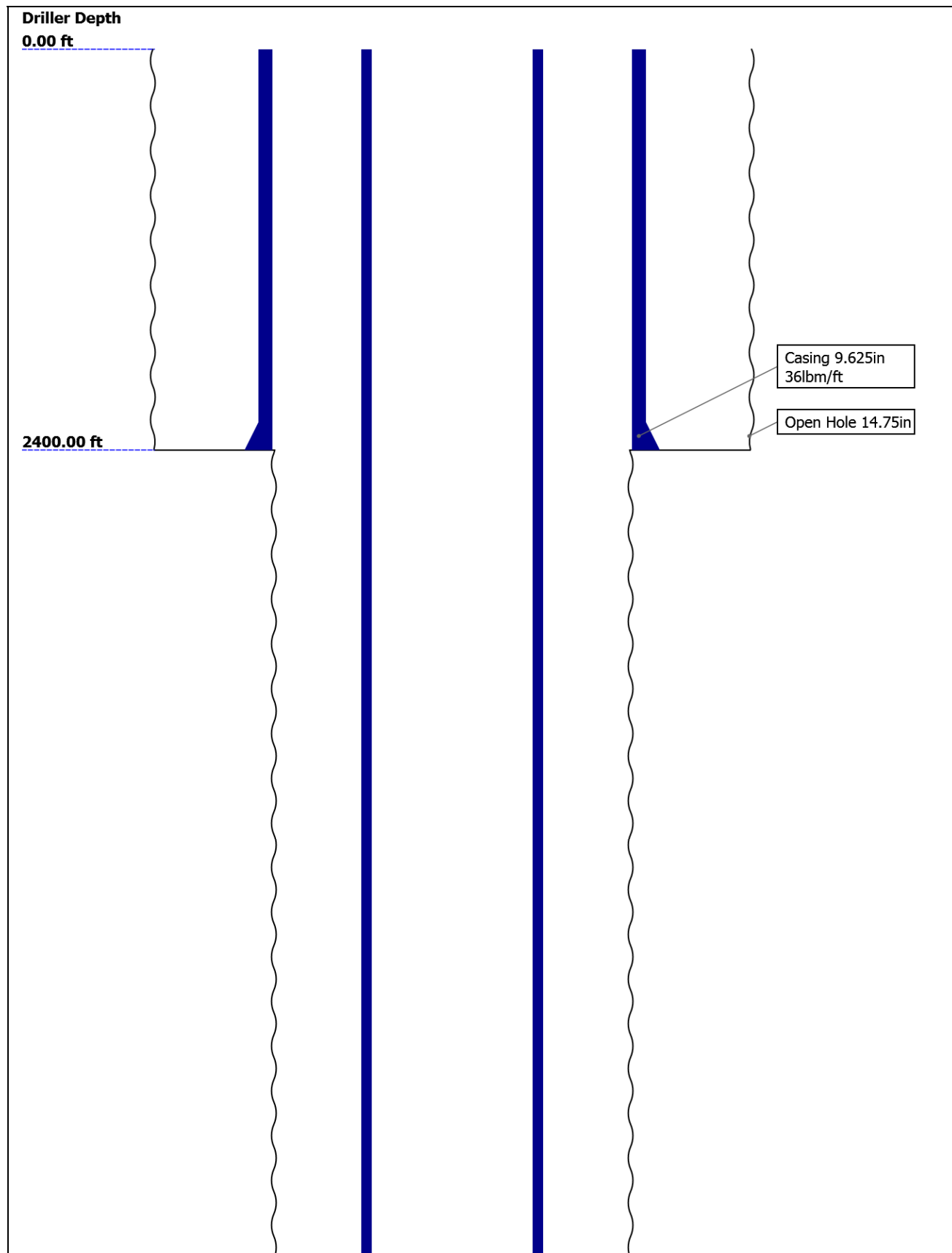
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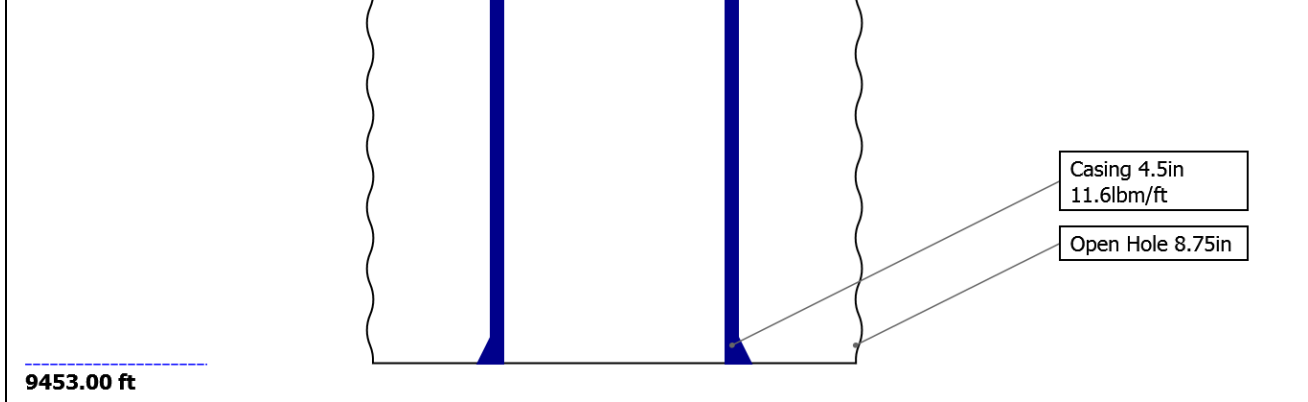
13.4 Log (RST SIGMA Answer)

13.5 Parameter Listing

14. Tail

Well Sketch





Borehole Size/Casing/Tubing Record

Bit					
Bit Size (in)	14.75	8.75			
Top Driller (ft)	0	2400			
Top Logger (ft)	0	2400			
Bottom Driller (ft)	2400	9453			
Bottom Logger (ft)	2400	9455			
Casing					
Size (in)	9.625	4.5			
Weight (lbm/ft)	36	11.6			
Inner Diameter (in)	8.921	4			
Grade	J55	P110			
Top Driller (ft)	0	0			
Top Logger (ft)	0	0			
Bottom Driller (ft)	2400	9453			
Bottom Logger (ft)	2400	9453			

Remarks and Equipment Summary

ONE: Remarks	ONE: Remarks
Tool string ran as per tool sketch	
RST Mode: SIGMA	
Matrix: Sandstone	
Max Recorded Temp: 285.3 Deg F	
Schlumberger Depth: 9455	
Thank you for choosing Schlumberger	

ONE: Toolstring			
Equip name	Length	MP name	Offset
PEH-E	53.4		
AH-38	51.72		

ONE: Toolstring			
Equip name	Length	MP name	Offset
PEH-E	59.74		
AH-38	58.06		
PSTP-B:282	57.78		
6			
PSC-A			
PSTC-A			
PBMS-B:2826			
RST-C	49.51		
RSCH-A:530			
		GR	54.07
		PSTC	53.78
		PSTC Tool	0.00
		String Bot	
		tom	
		Temperatu	51.03
		re	
		CQG Press	50.68
		ure	
		CCL	50.26
		PBMS	49.51

PSTP-B:378 1 **51.44**
 PSC-A:3781
 PSTC-A:3781
 PBMS-B:3781

GR 47.74
PSTC 47.44
PSTC Tool 0.00
String Bottom
Temperature 44.69
CQG Pressure 44.34
CCL 43.92
PBMS 43.17

RST-C:701 **43.17**
 RSCH-A:524
 RSC-E:701
 RSS-A:488
 MNTR-F
 RSXH-A:597
 RSX-E:701

RSC-E 43.16
Far 40.4
Near 39.9
RSC-E 36.82
Far 34.06
Near 33.56

RSC-E
 RSS-A:488
 MNTR-F
 RSXH-A:597
 RSX-E

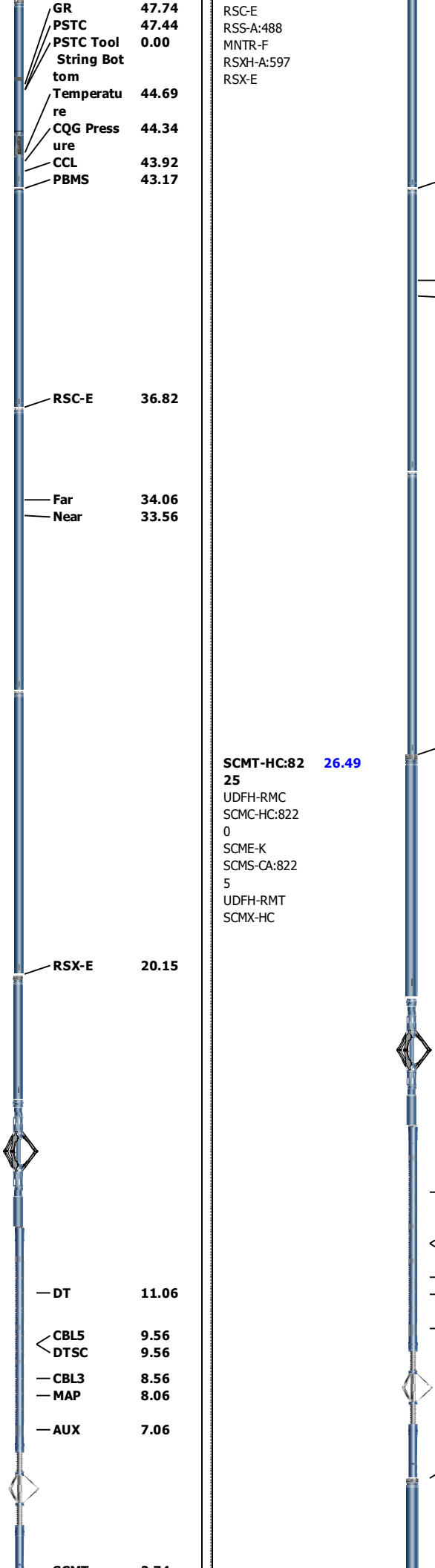
SCMT-HC:82 25 **26.49**
 UDFH-RMC
 SCMC-HC:8220
 SCME-K
 SCMS-CA:8225
 UDFH-RMT
 SCMX-HC

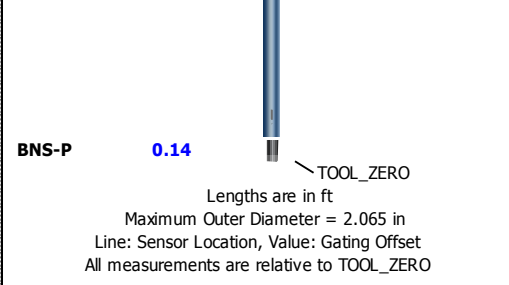
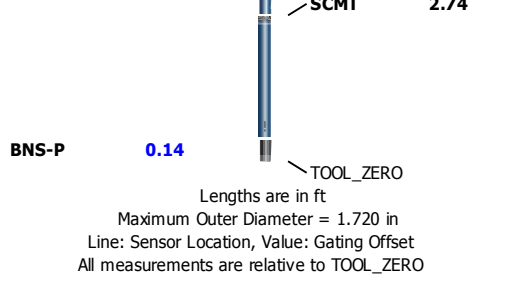
RSC-E 43.16
Far 40.4
Near 39.9
RSX-E 26.49

SCMT-CB:800 **20.15**
 SECH-CA:8149
 SCMC-CA:8150
 CMIR-AG
 SCMS-CB:800
 SCMX-CA:c8149

RSX-E 20.15
DT 14.03
CBL5 12.53
DTSC 12.53
CBL3 11.53
MAP 11.03
AUX 10.03
DT 11.06
CBL5 9.56
DTSC 9.56
CBL3 8.56
MAP 8.06
AUX 7.06

DT 14.03
CBL5 12.53
DTSC 12.53
CBL3 11.53
MAP 11.03
AUX 10.03
SCMT 5.71





Depth Summary

	ONE	ONE	
Depth Measuring Device			
Type	IDW-B	IDW-B	
Serial Number	6693	6693	
Calibration Date	02-Feb-2018	02-Feb-2018	
Calibrator Serial Number	JA	JA	
Calibration Cable Type	IDWC-C-57	IDWC-C-57	
Wheel Correction 1	-4	-4	
Wheel Correction 2	-4	-4	
Tension Device			
Type	CMTD-B/A	CMTD-B/A	
Serial Number	1127	1127	
Calibration Date	25-Jul-2018	25-Jul-2018	
Calibrator Serial Number	112544	112544	
Number of Calibration Points	10	10	
Calibration Root Mean Square Error	1320	1320	
Calibration Peak Error	25	25	
Logging Cable			
Type	1-25ZA-XXS	1-25ZA-XXS	
Serial Number	F112140	F112140	
Length	17500.00 ft	17500.00 ft	
Conveyance Type	Wireline	Wireline	
Rig Type	Crane	Crane	
ONE:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well	All Schlumberger depth control procedures followed	
Rig Up Length At Surface		IDW used as primary depth control device	
Rig Up Length At Bottom		Z-chart used as secondary depth control device	
Rig Up Length Correction		Down log used as reference log	
Stretch Correction			
Tool Zero Check At Surface			
ONE:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well		
Rig Up Length At Surface			
Rig Up Length At Bottom			
Rig Up Length Correction			
Stretch Correction			

Software Version

Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	1129.85 ft	3466.80 ft	07-Sep-2018 10:33:26 PM	07-Sep-2018 11:40:39 PM	ON	12.21 ft	Yes

All depths are referenced to toolstring zero

Log

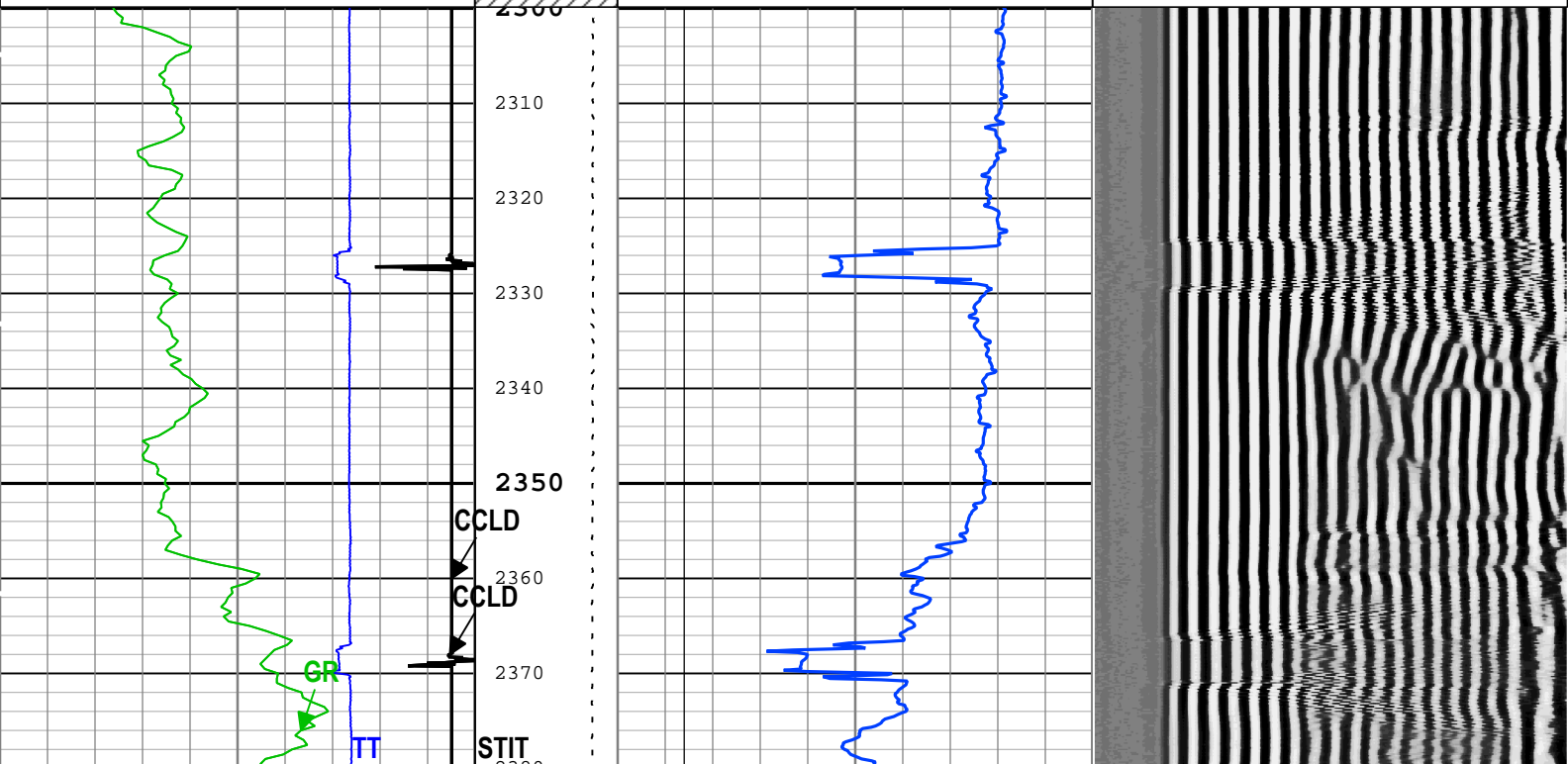
Company:Caerus Operating LLC Well:NPR 13D-10 596
 ONE: Log[4]:Up:S011

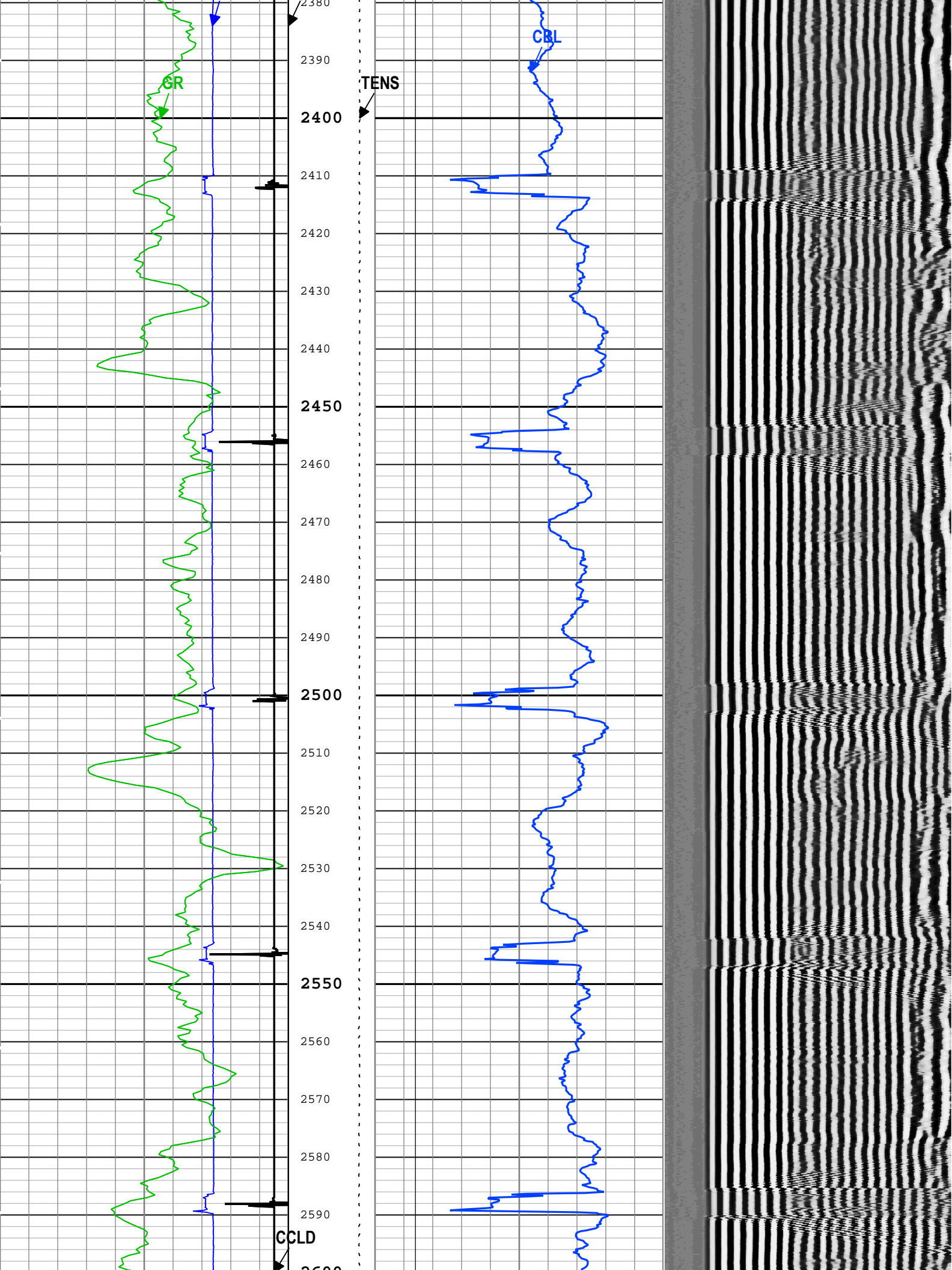
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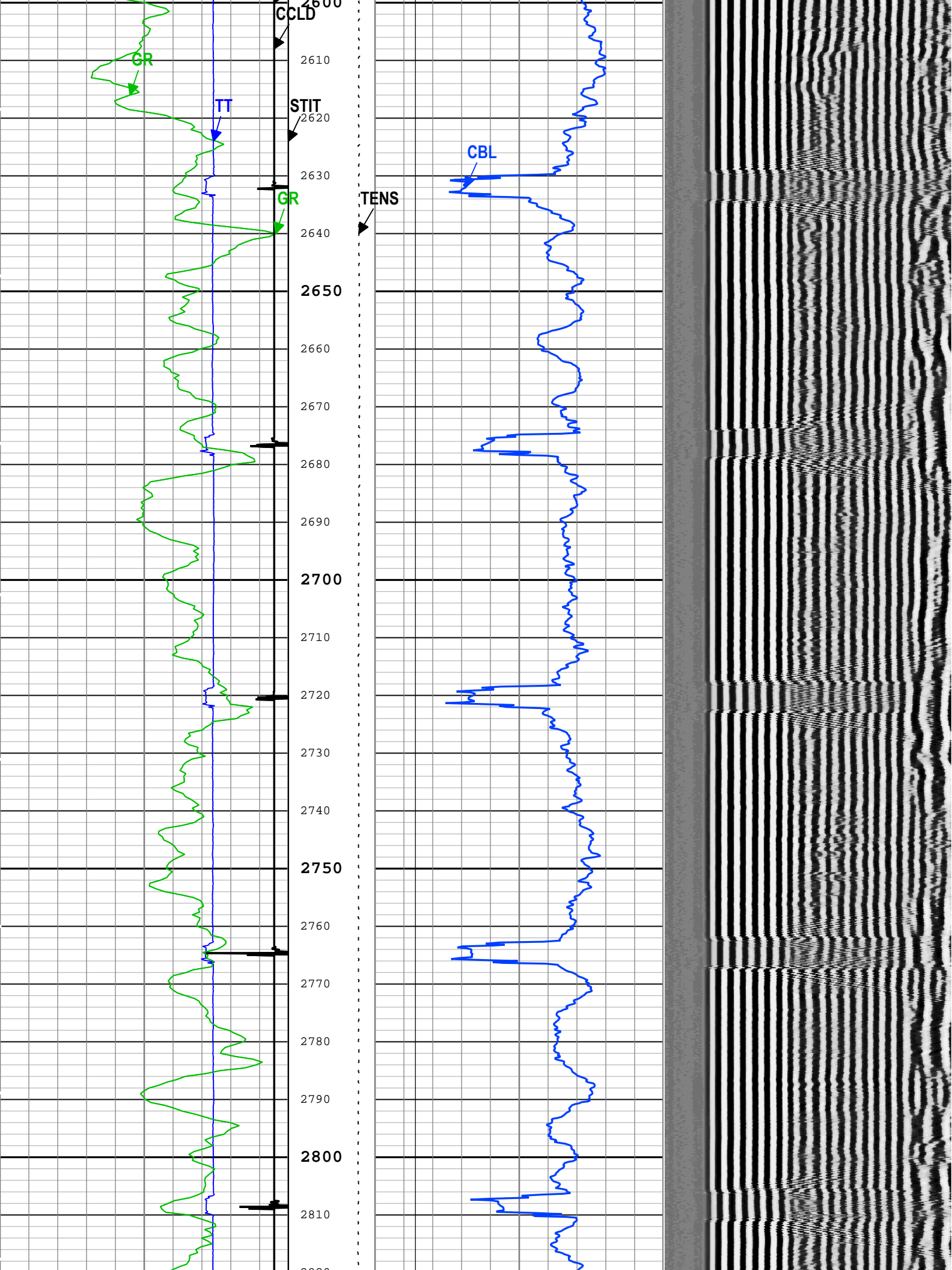
TIME_1900 - Time Marked every 60.00 (s)

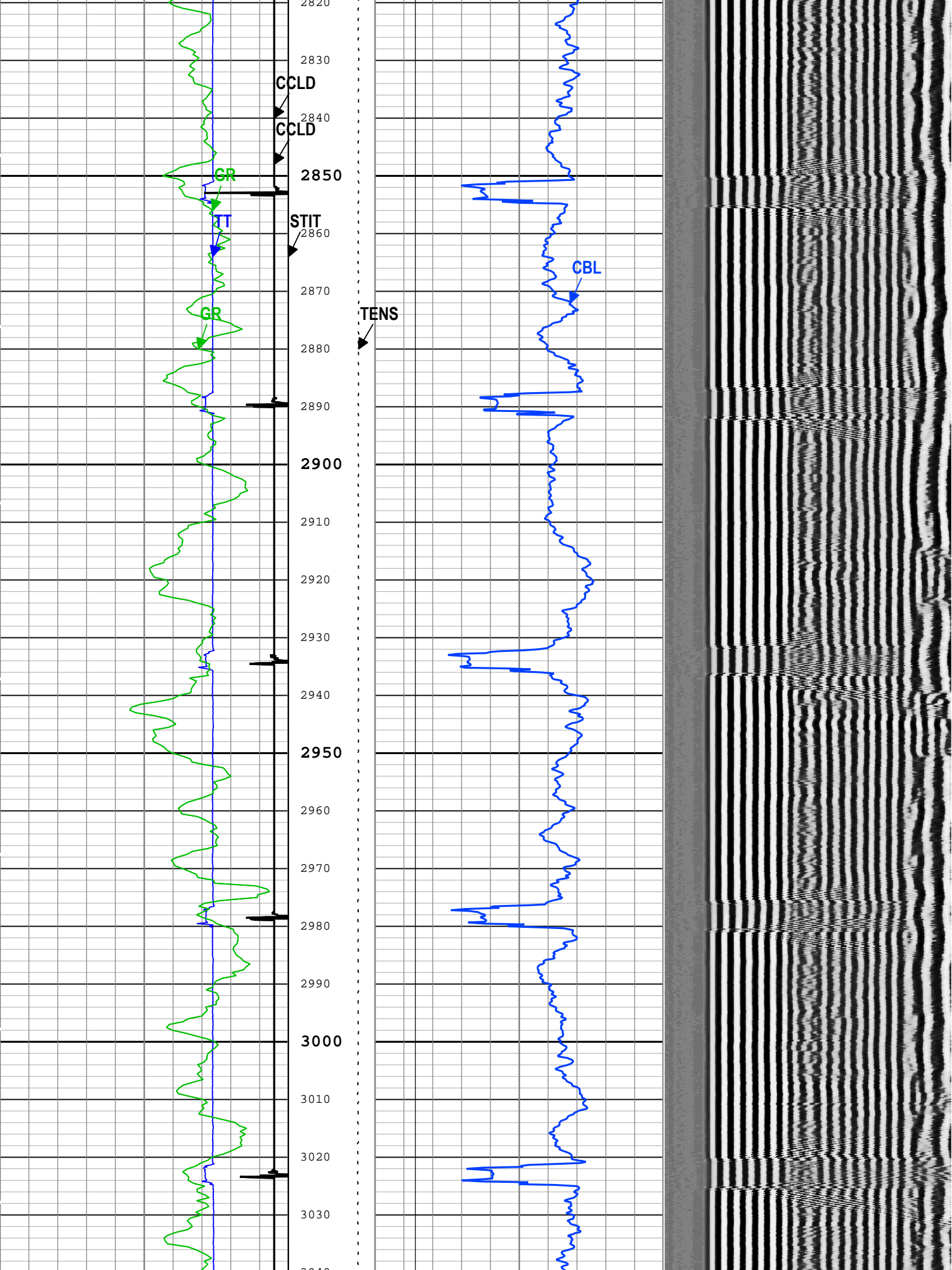
■ BIEP - Bond Index Event Pips SCMT-HC

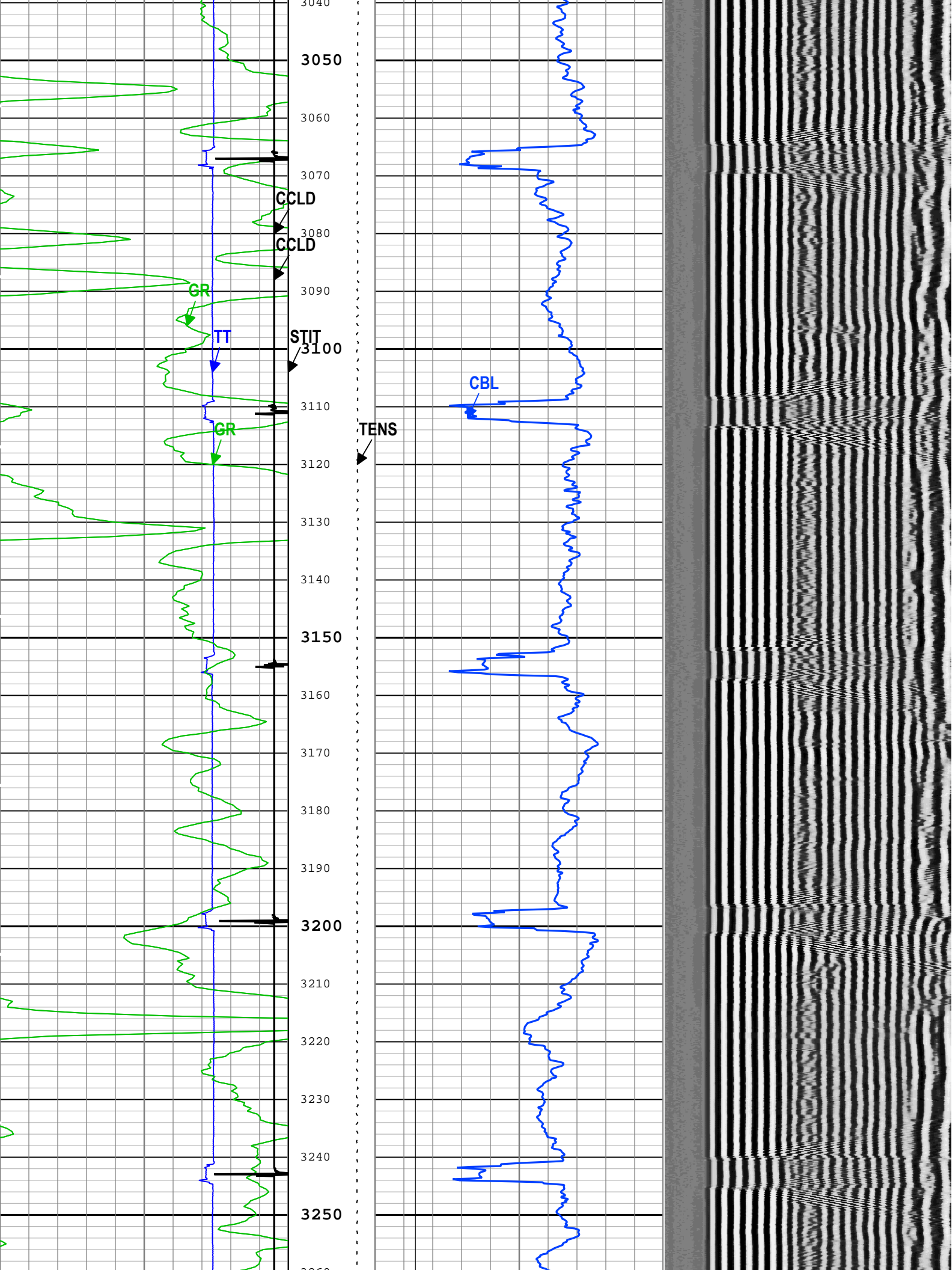
Gamma Ray (GR) PSTP-B	0	gAPI	150	Cable Tension (TENS)	3000 lbf	0
Transit Time for CBL (TT) SCMT-HC	400	us	200	Stuck Tool Indicator, Total (STIT)	0	ft
Gamma Ray (GR) PSTP-B	0	gAPI	150	Cable Drag	0	ft
CCL Discriminated Amplitude (CCLD) PSTP-B	-19	V	1	Good Bond (GOBO)	0	mV
CCL Discriminated Amplitude (CCLD) PSTP-B	-19	V	1	Tool_Tot. Drag	200	us
				GoodBond From CBL to GOBO	200	us

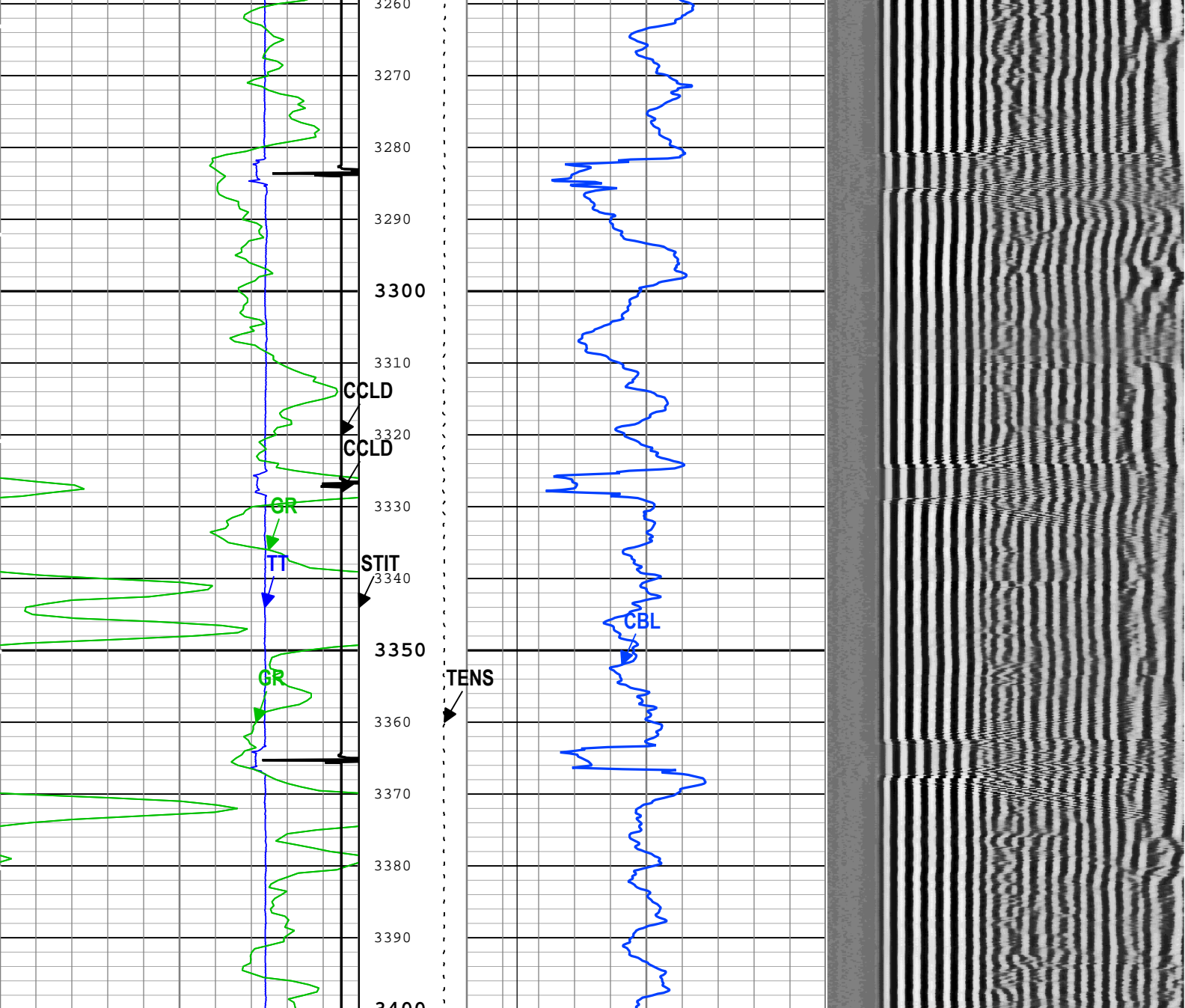












Gamma Ray (GR) PSTP-B 0 gAPI 150	Cable Tension (TENS) 3000 lbf 0	CBL Amplitude (CBL) SCMT-HC 0 mV 10	Min Amplitude Max
Transit Time for CBL (TT) SCMT-HC 400 us 200	Stuck Tool Indicator, Total (STIT) 0 ft 50	CBL Amplitude (CBL) SCMT-HC 0 mV 100	VDL VariableDensity (VDL) SCMT-HC 200 us 1200
Gamma Ray (GR) PSTP-B 0 gAPI 150	Good Bond (GOBO) 0 mV 10		
CCL Discriminated Amplitude (CCLD) PSTP-B -19 V 1	Cable Drag	GoodBond From CBL to GOBO	
CCL Discriminated Amplitude (CCLD) PSTP-B -19 V 1	Tool_Tot. Drag		

■ 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: 09-Sep-2018 00:00:00

Channel Processing Parameters

ONE: Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	285.3	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-HC	233.53	us
CBLG	CBL Gate Width	SCMT-HC	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-HC	80	mV
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	24	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	6709	ft
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-HC	1.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-HC	16.92	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-HC	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-HC	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-HC	0.51	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	5	
SHT	Surface Hole Temperature	Borehole	68	degF
TD	Total Measured Depth	Borehole	9455	ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
MCI	14.81	2300	2400
MCI	1.25	2400	3400

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	24 dB	

Composite 1

Software Version

Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

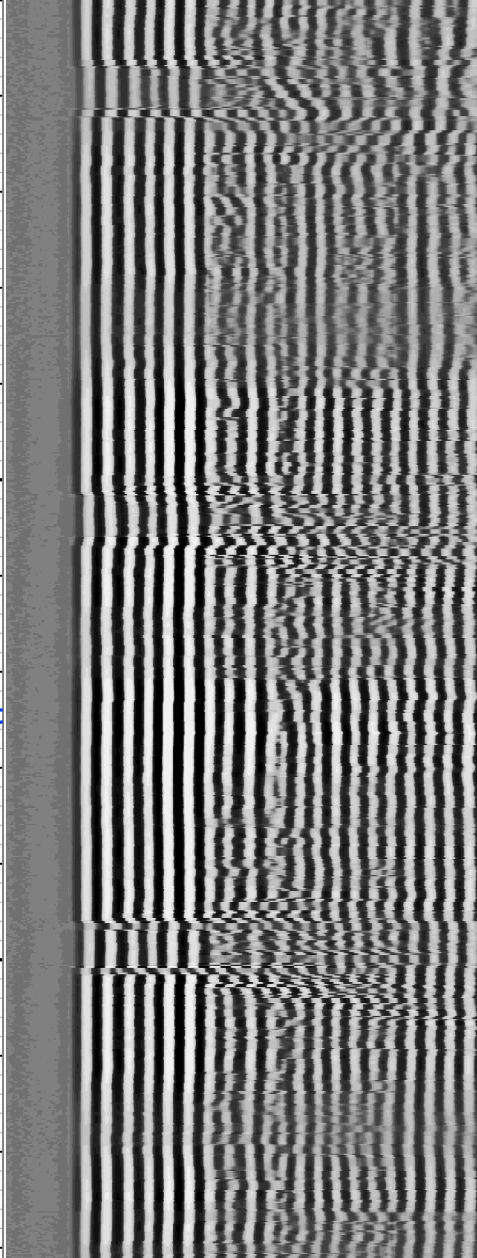
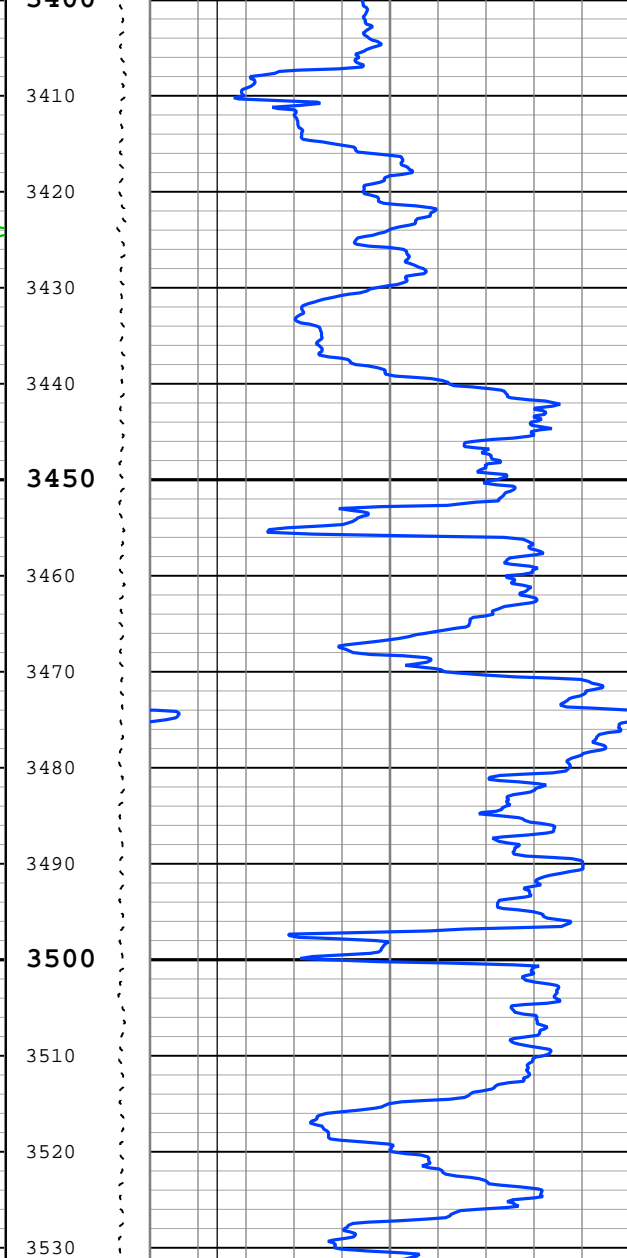
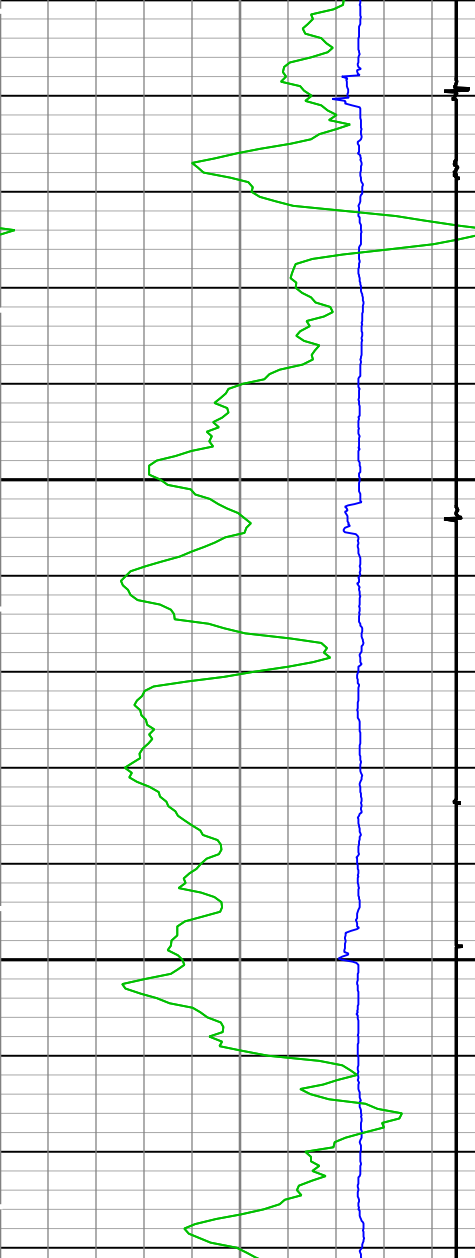
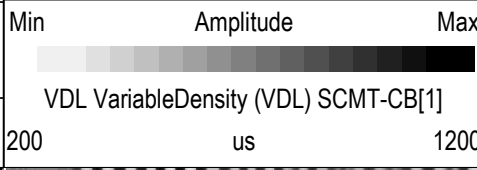
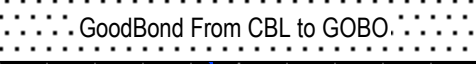
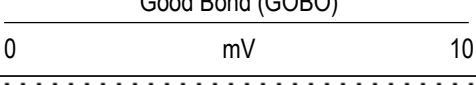
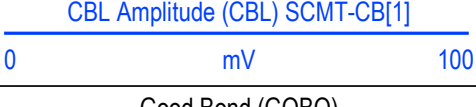
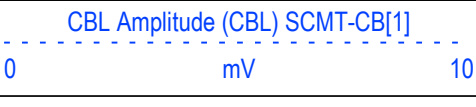
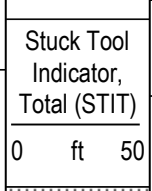
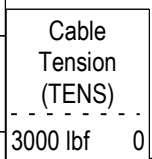
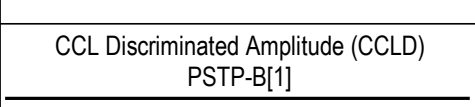
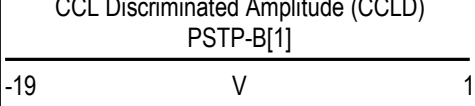
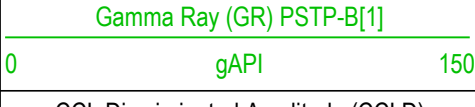
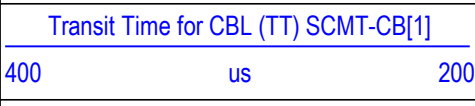
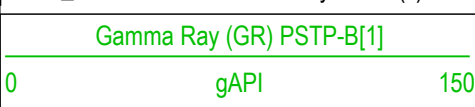
Composite Summary

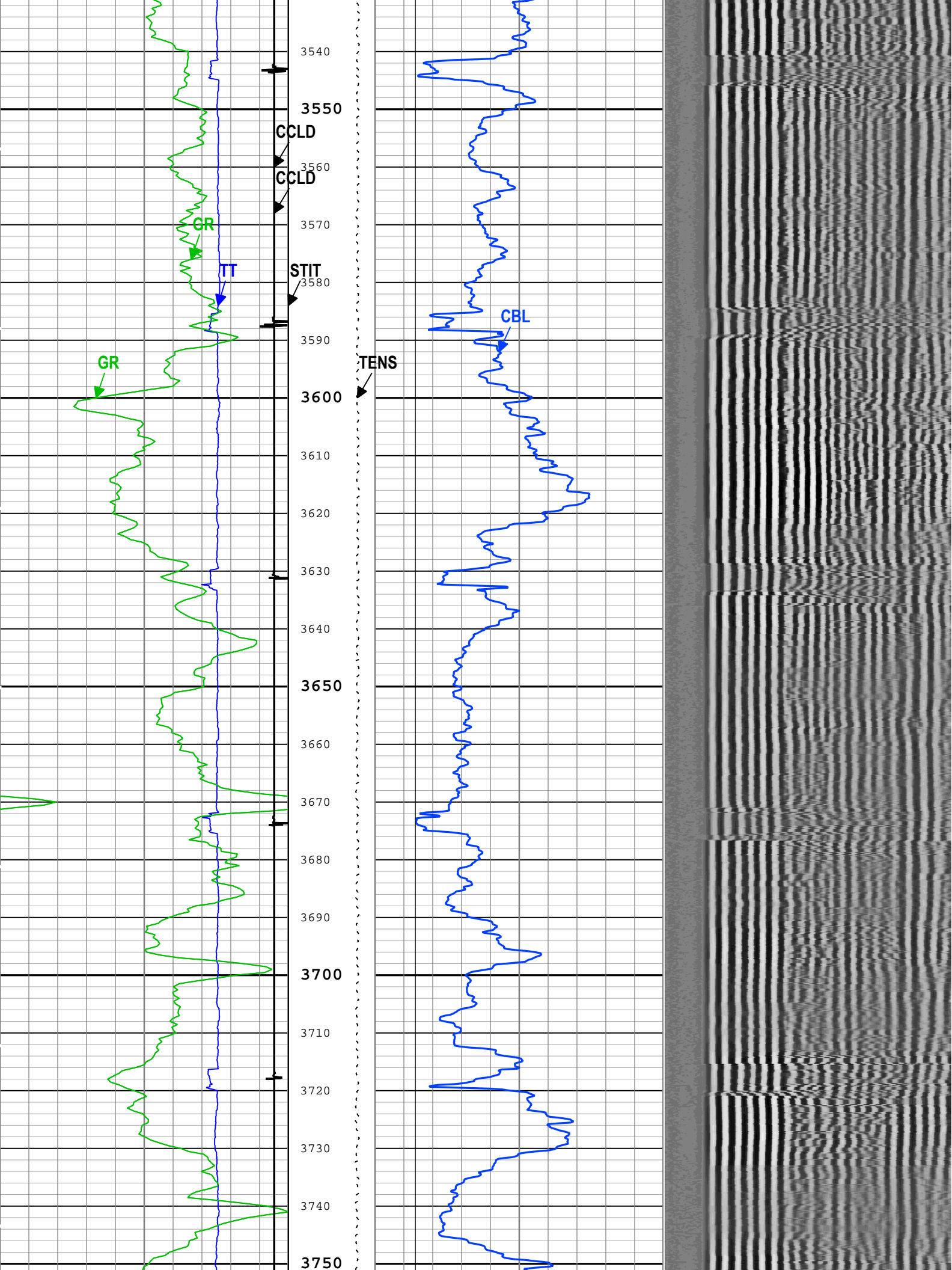
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ONE	Log[3]:Up	Up	6753.03 ft	9471.98 ft	07-Sep-2018 6:48:17 AM	07-Sep-2018 8:27:35 AM	ON	-8.65 ft	Yes
ONE	Log[4]:Up	Up	6105.93 ft	6891.94 ft	07-Sep-2018 9:12:34 AM	07-Sep-2018 9:41:04 AM	ON	-8.59 ft	Yes
ONE	Log[5]:Up	Up	2255.86 ft	6268.28 ft	07-Sep-2018 2:49:36 PM	07-Sep-2018 5:01:45 PM	ON	-32.67 ft	Yes

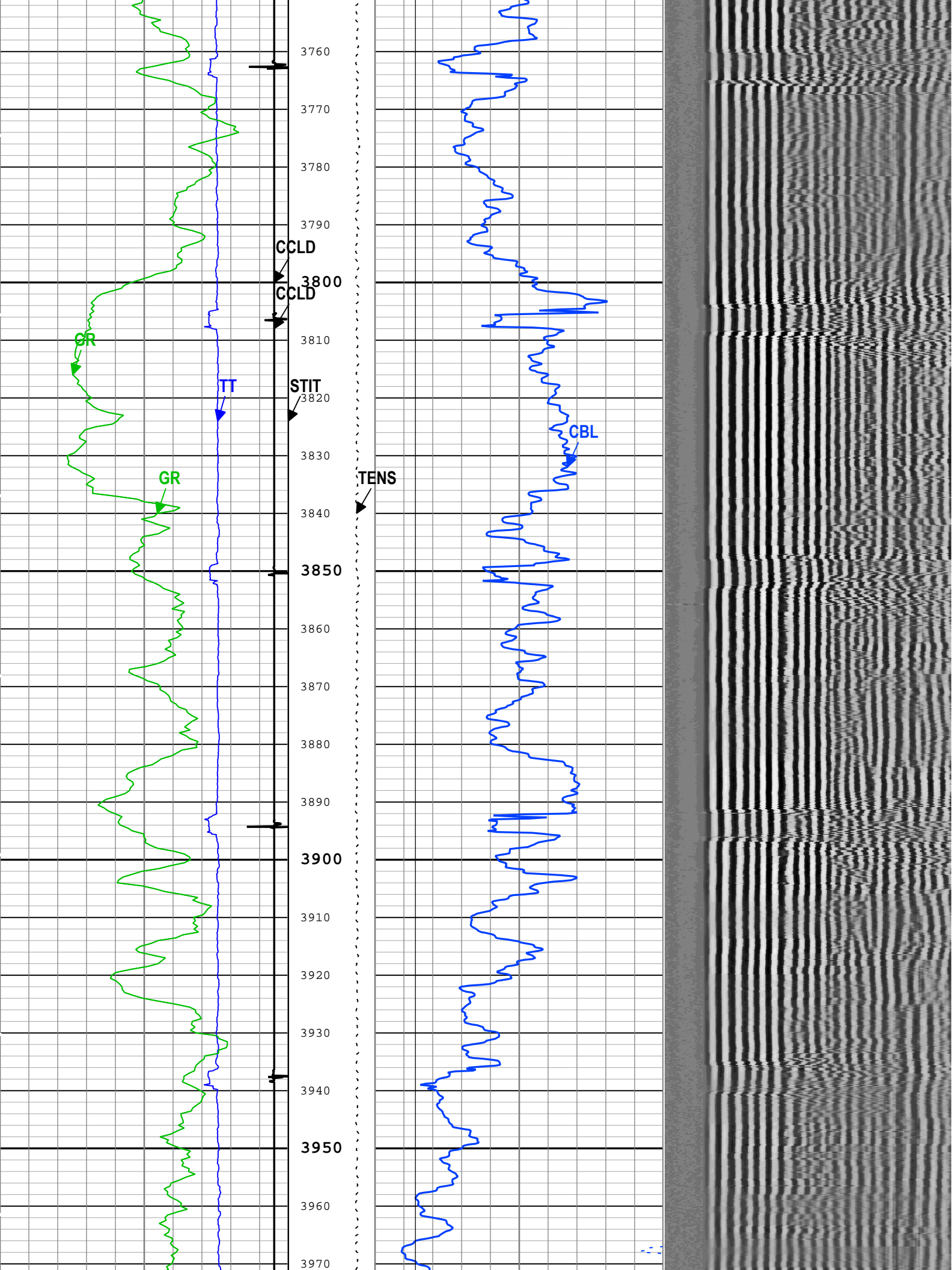
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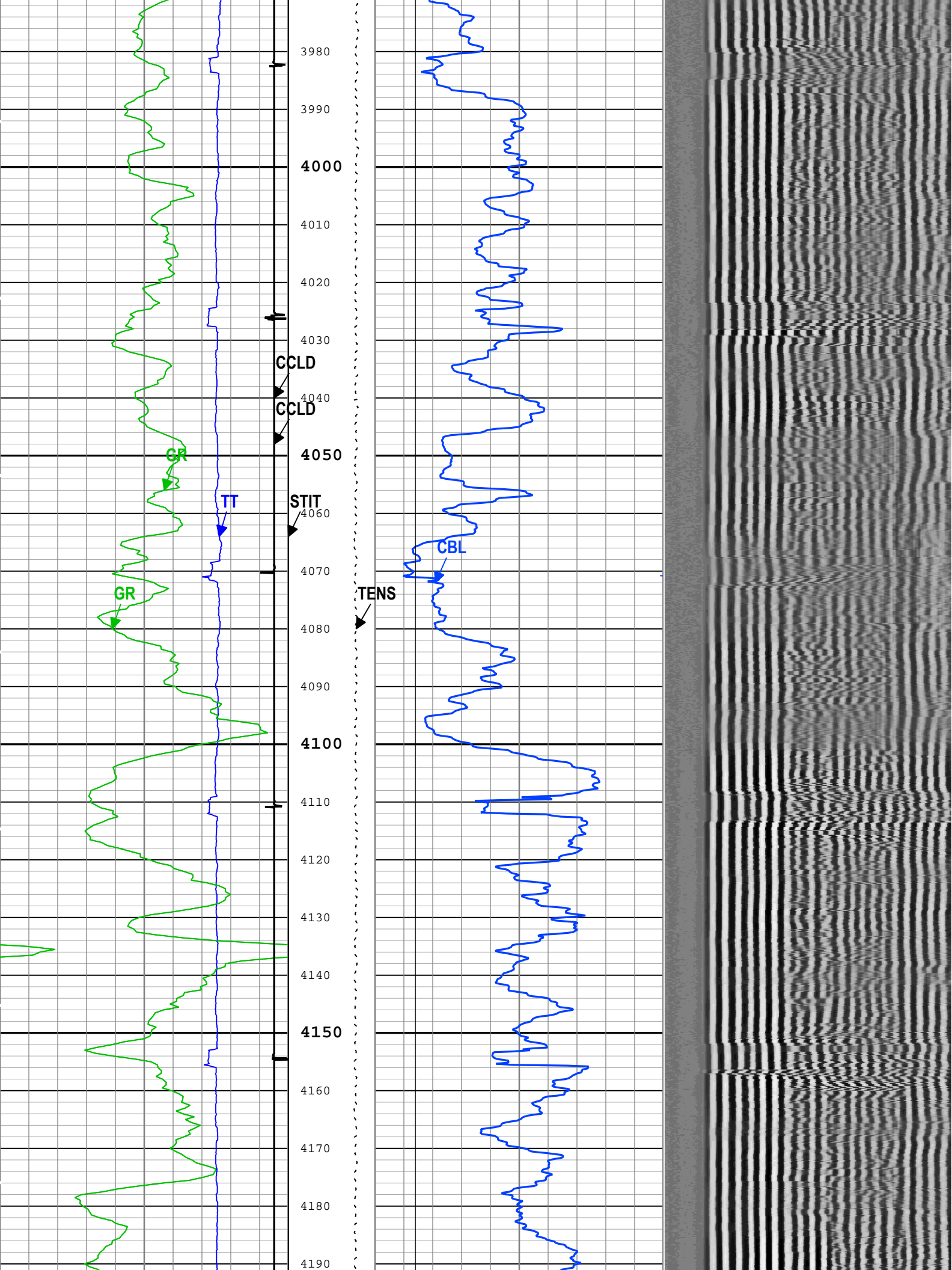
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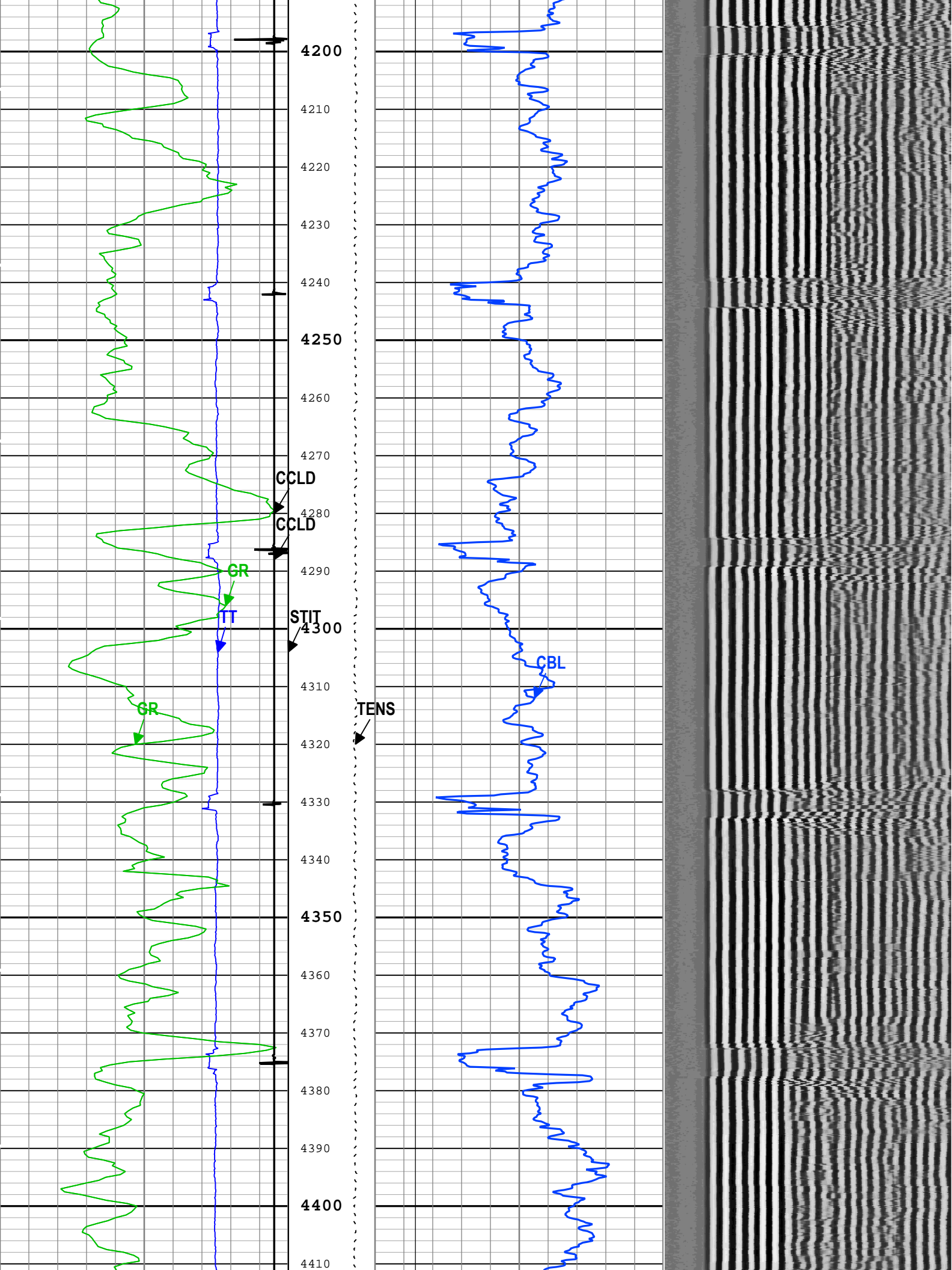
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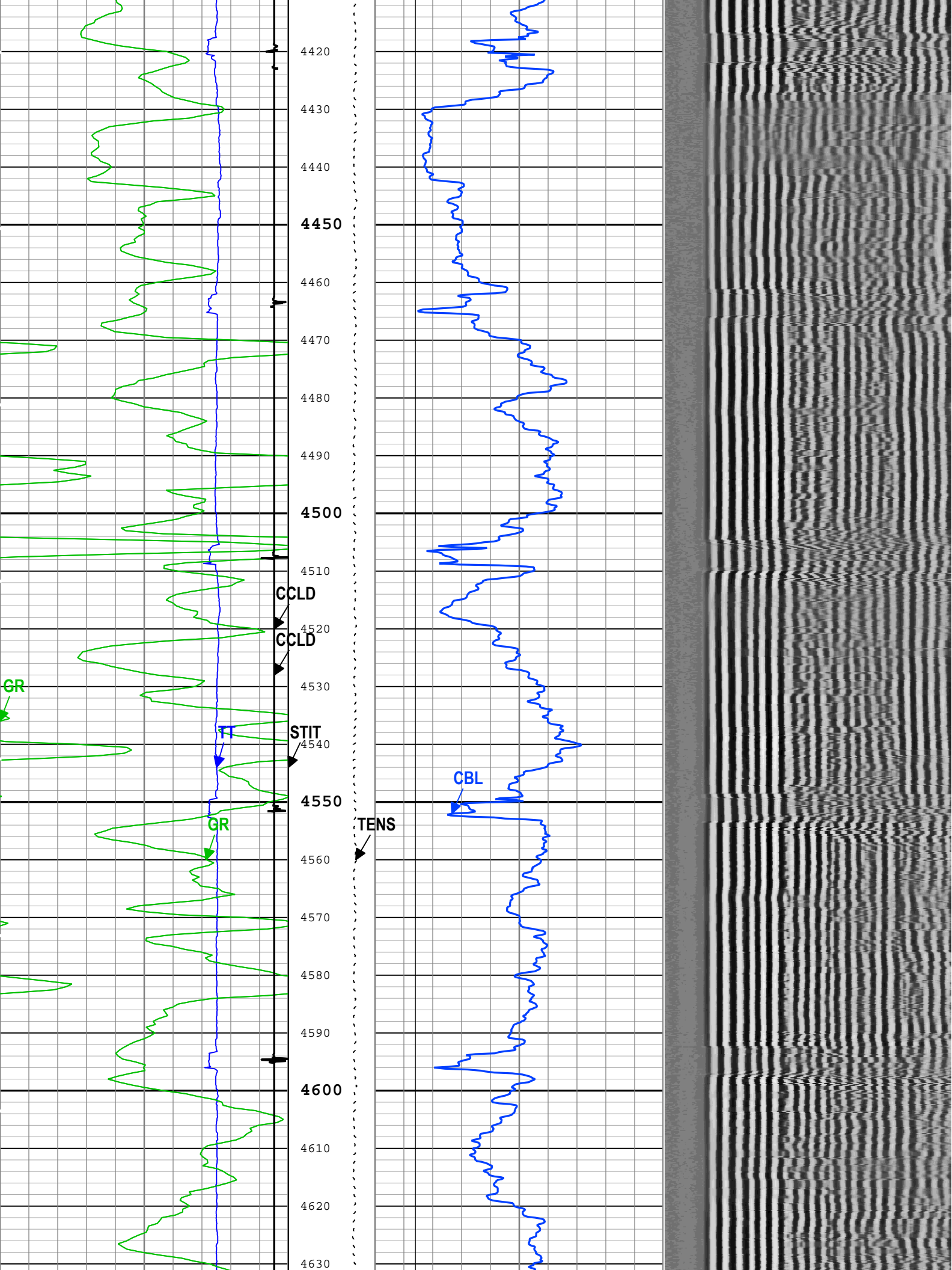


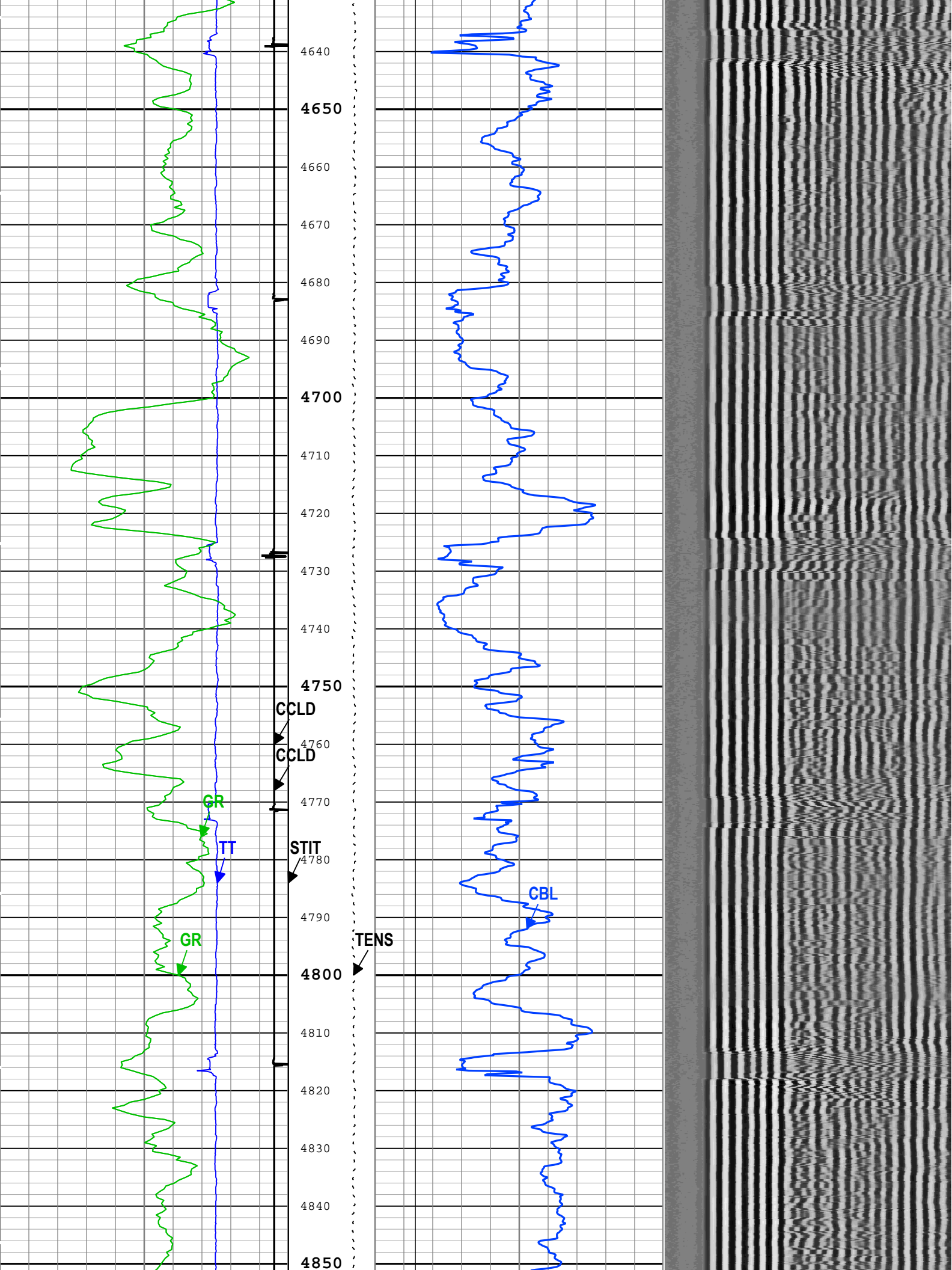


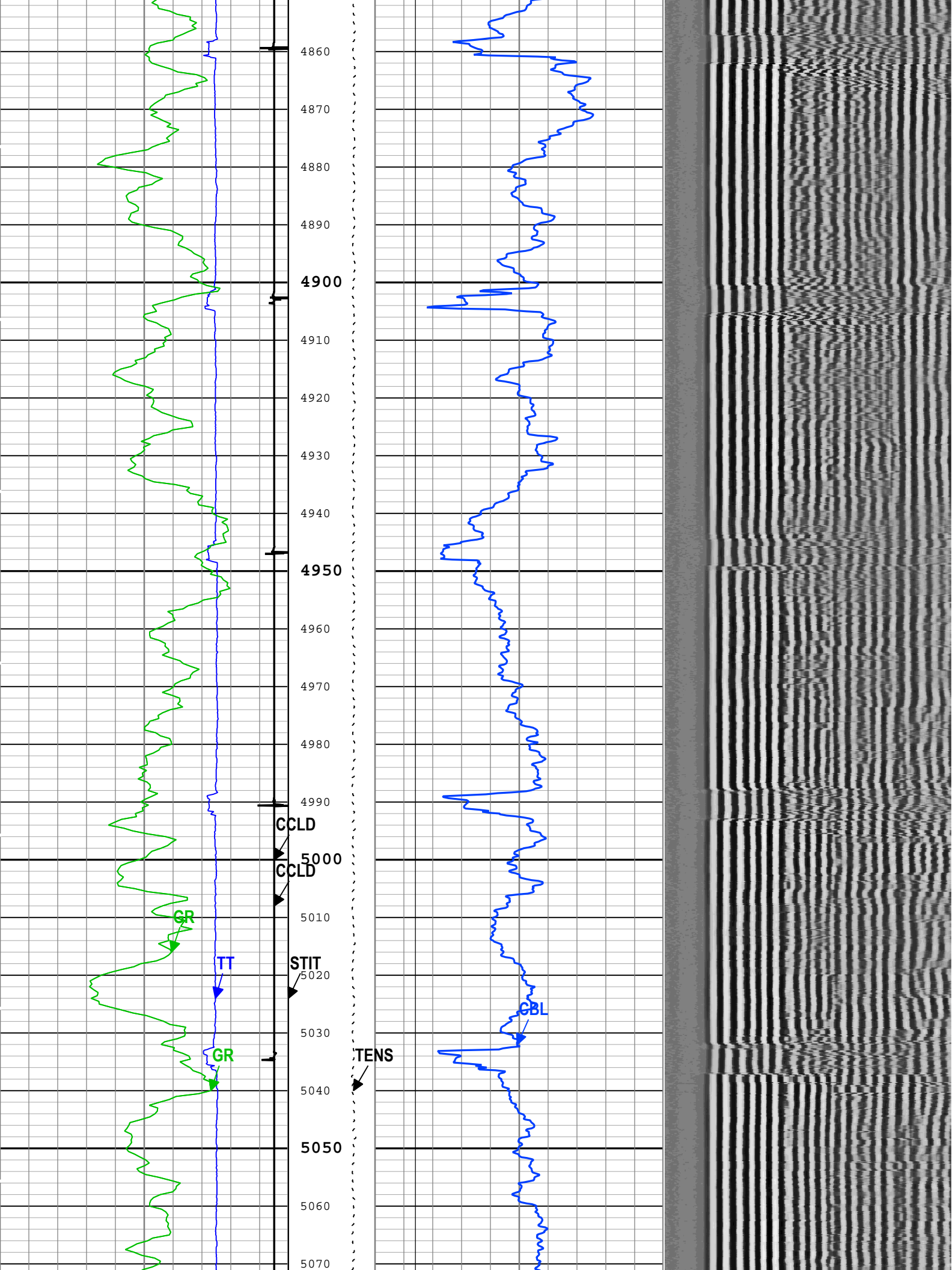


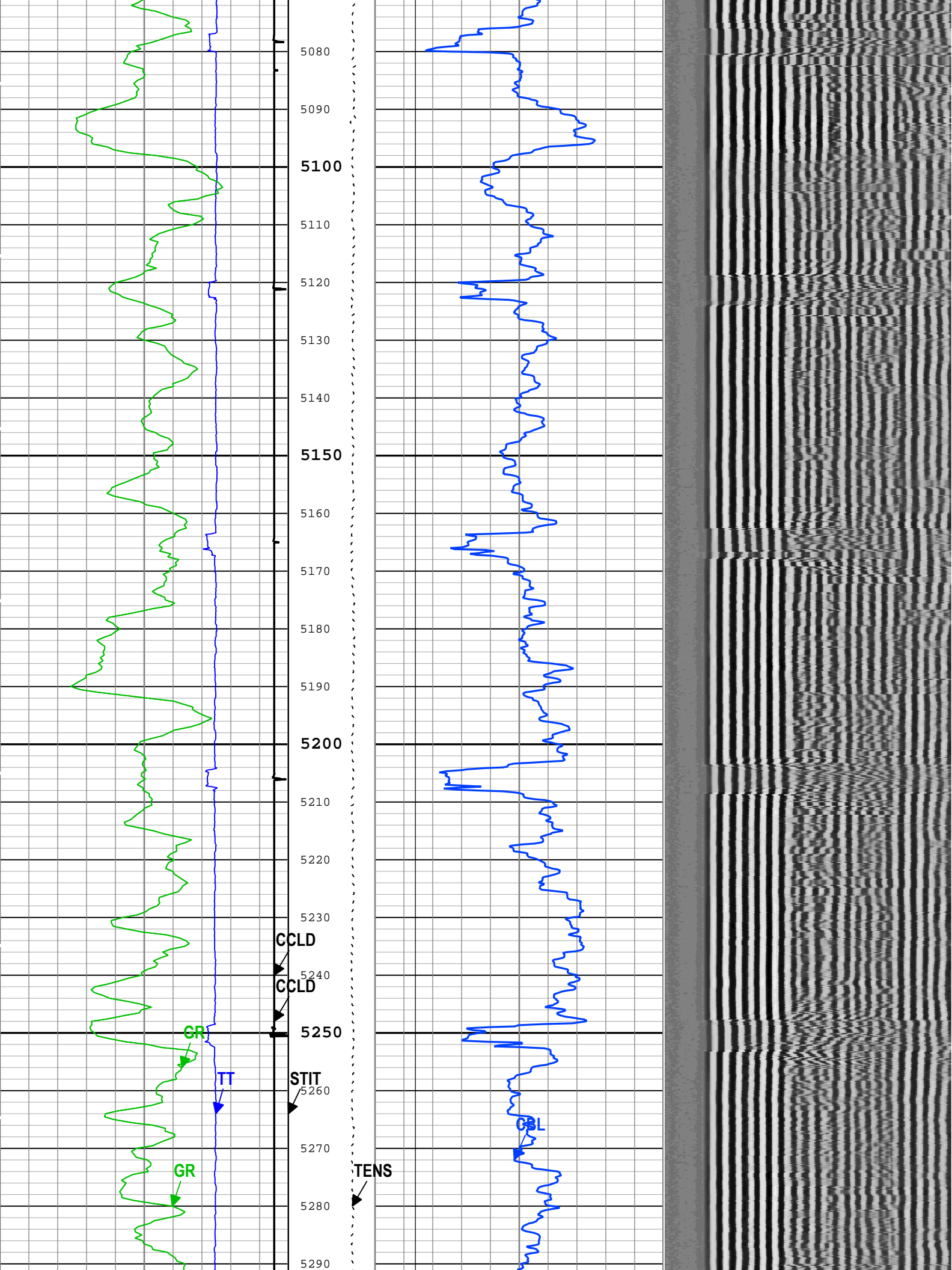


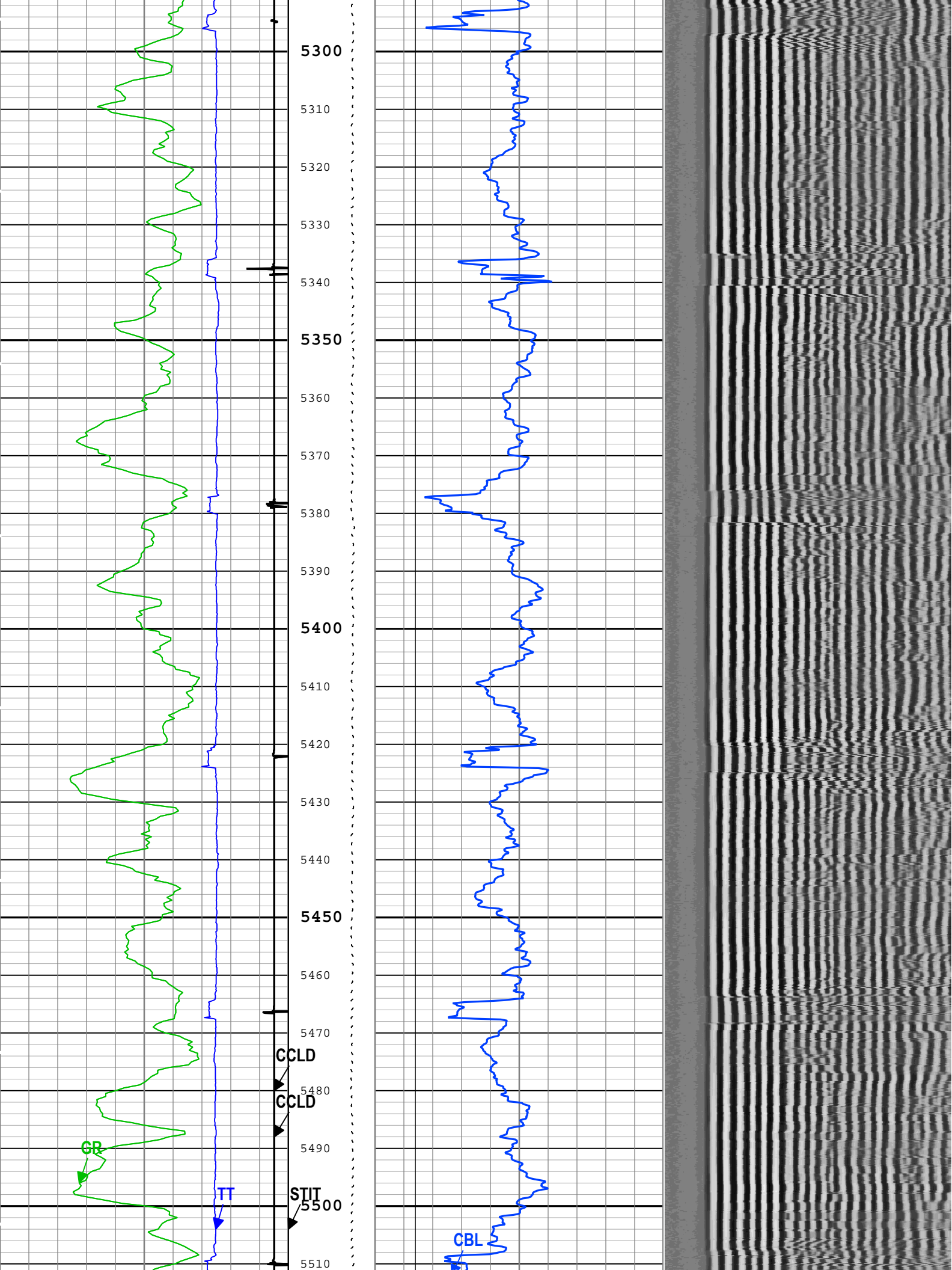


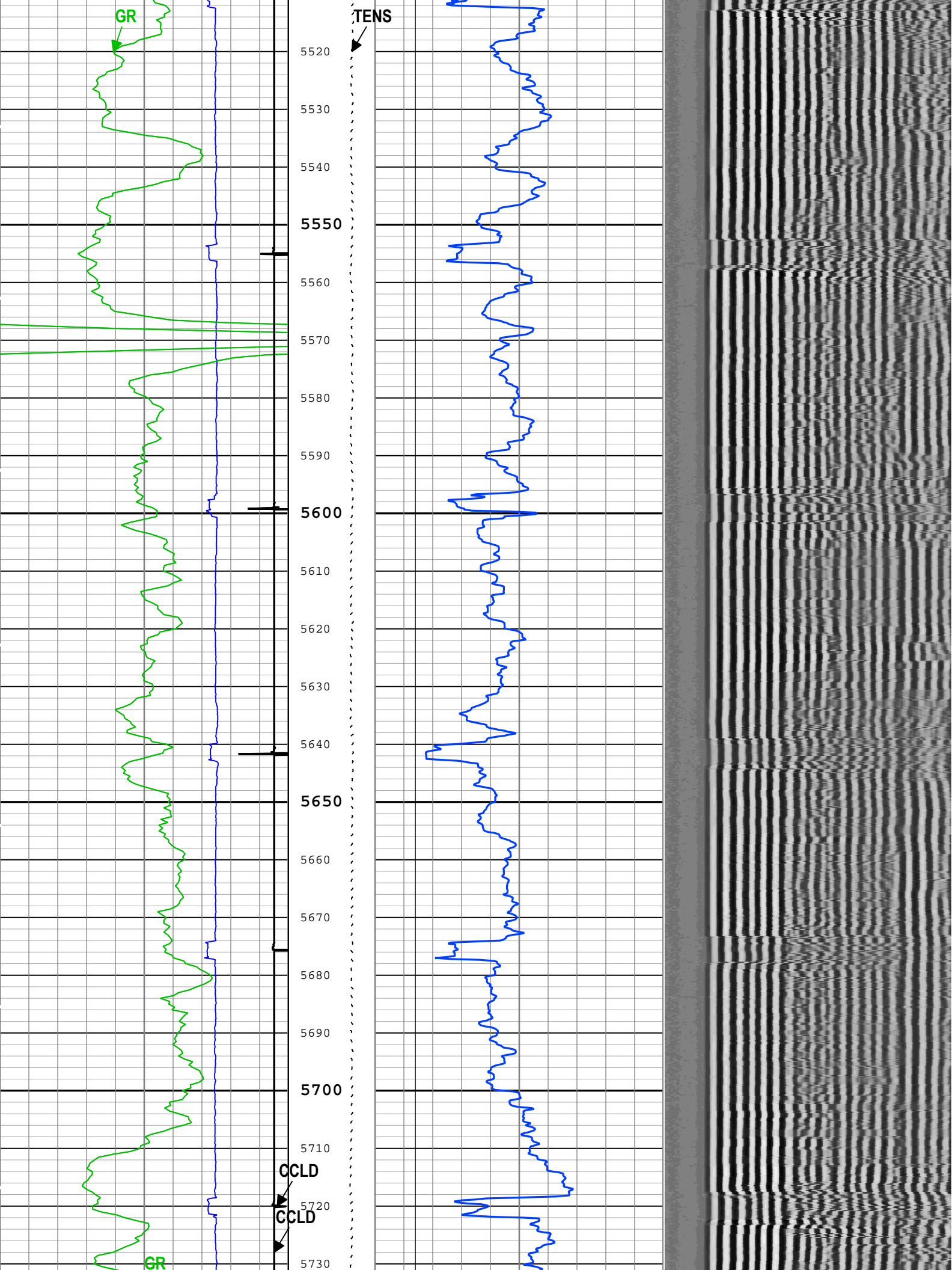


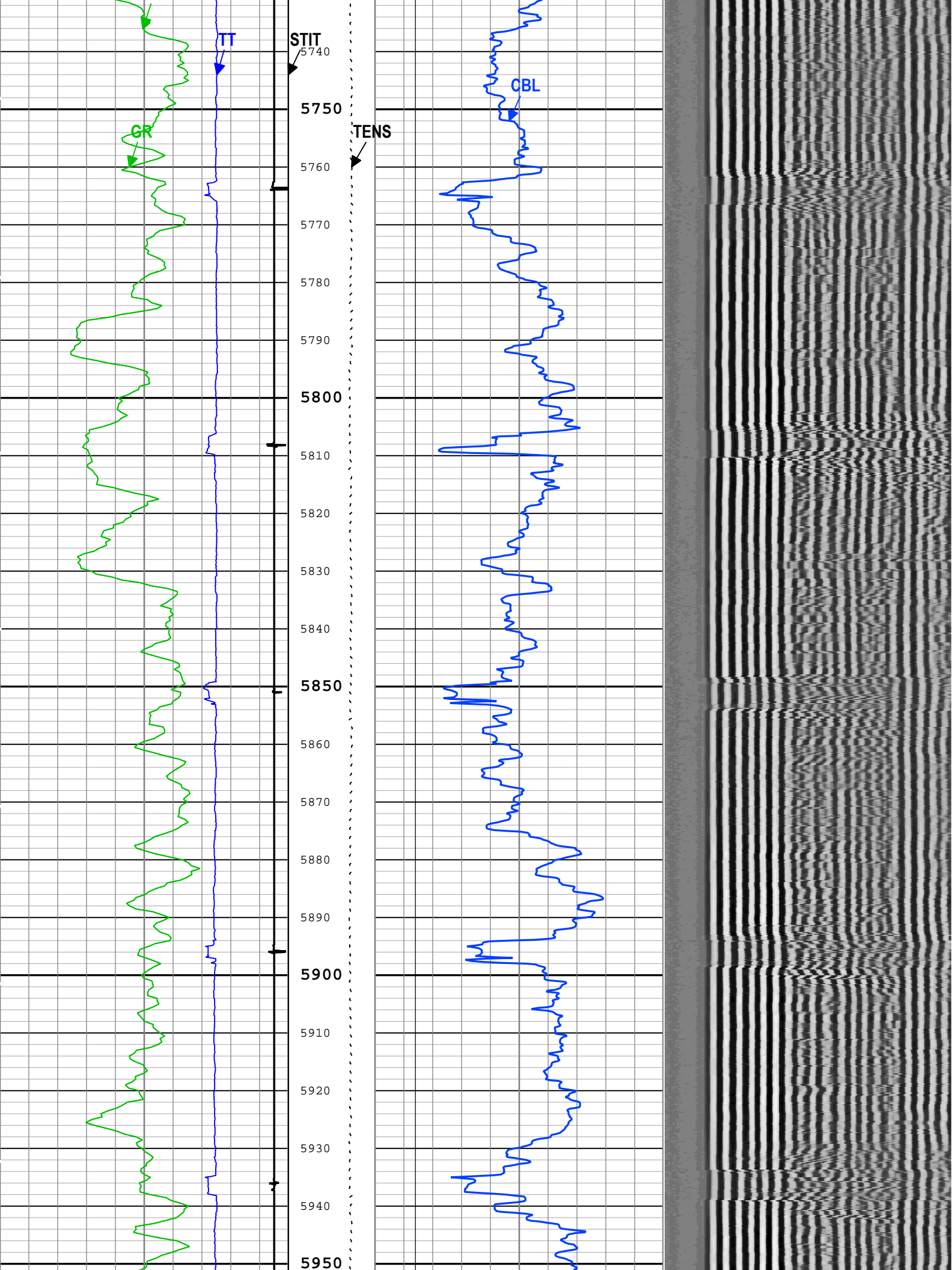


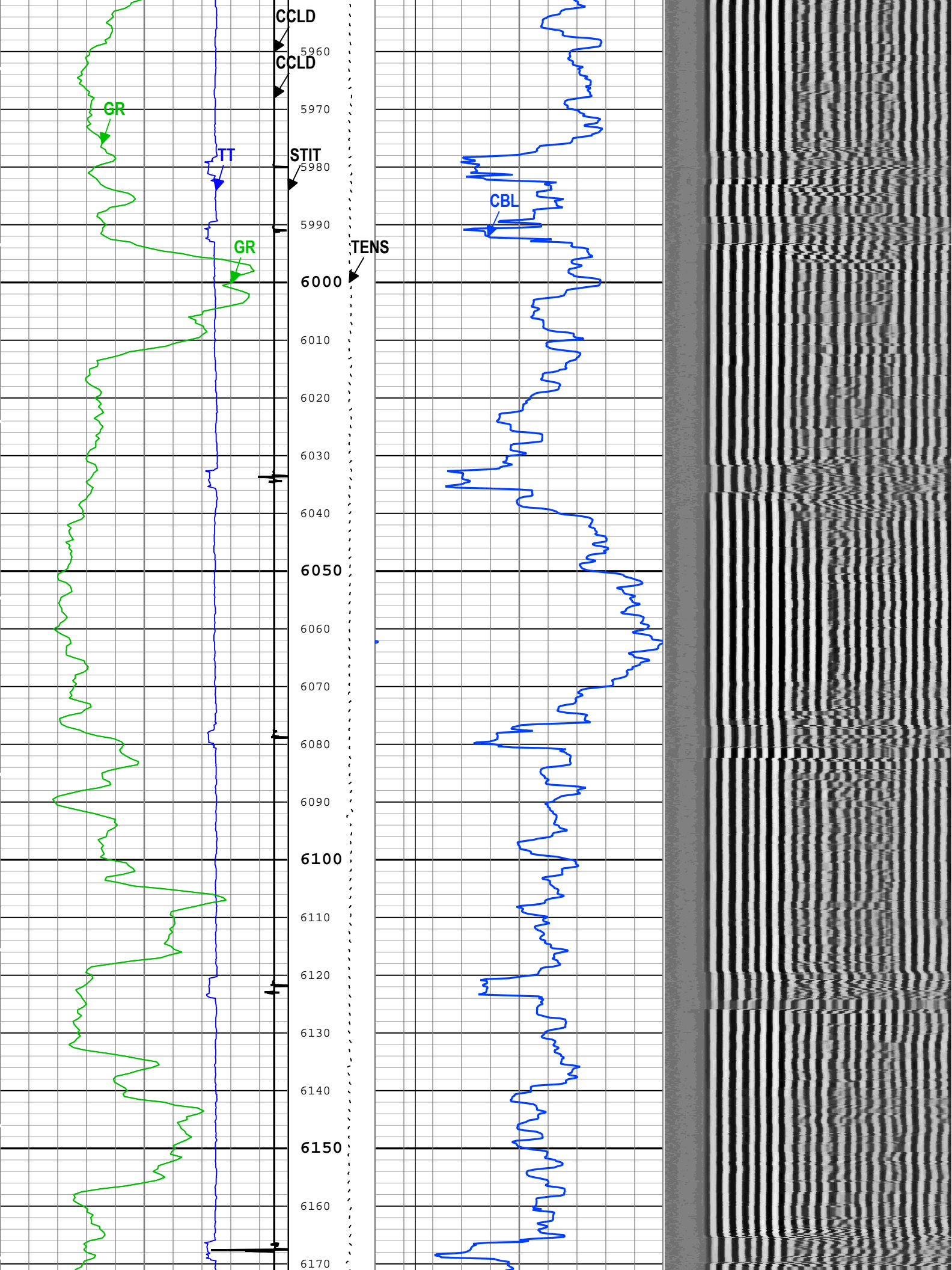


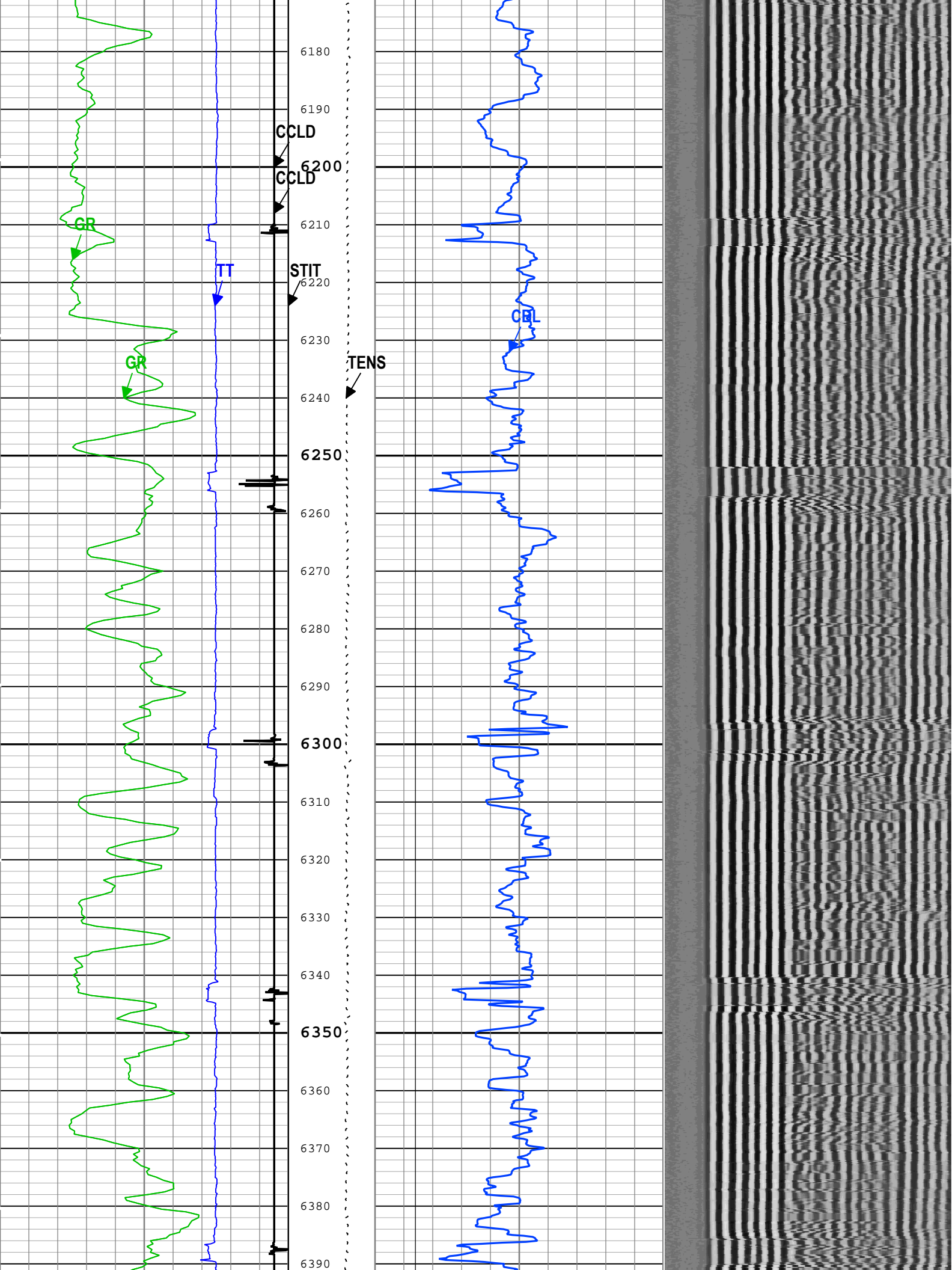


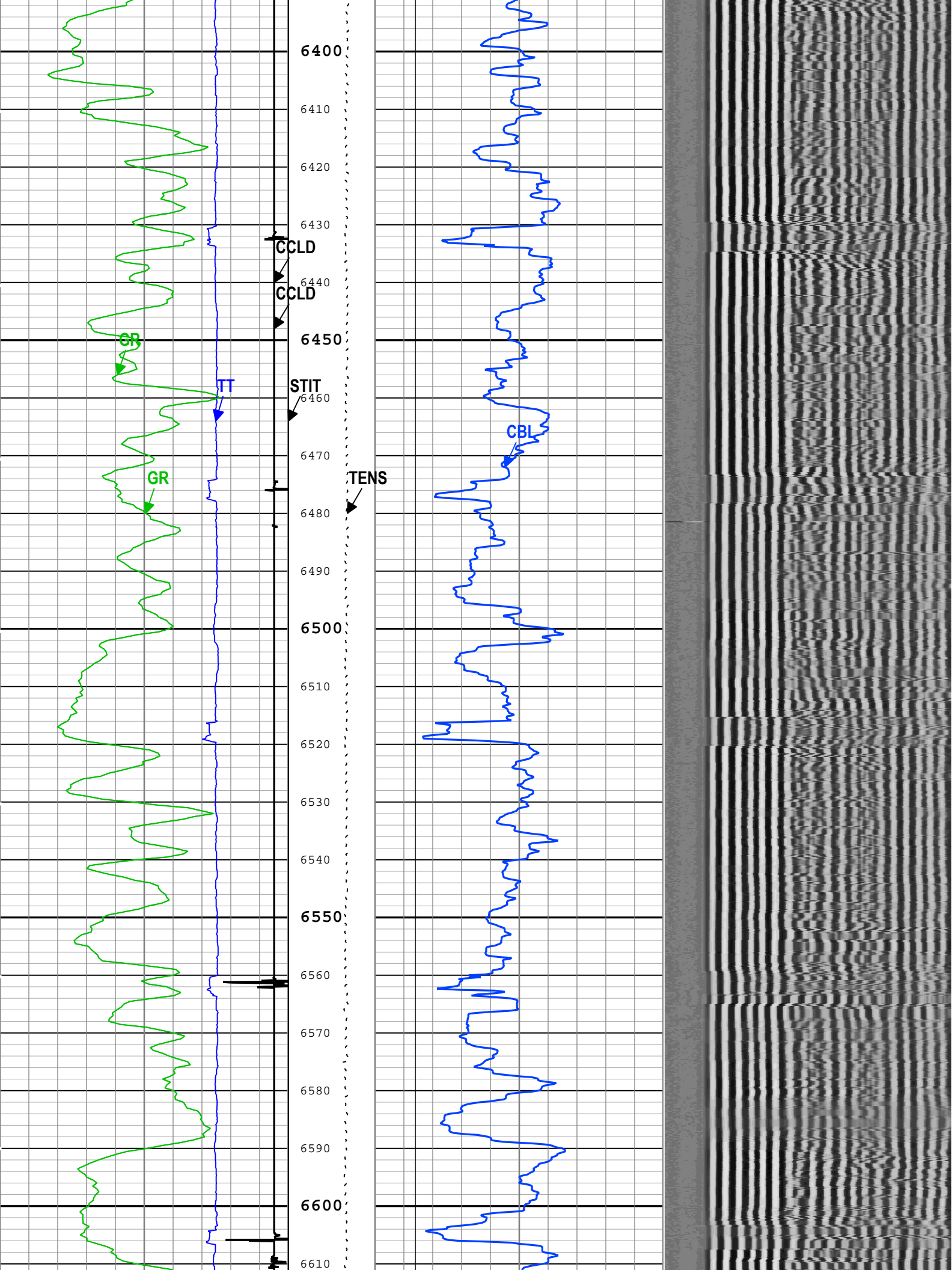


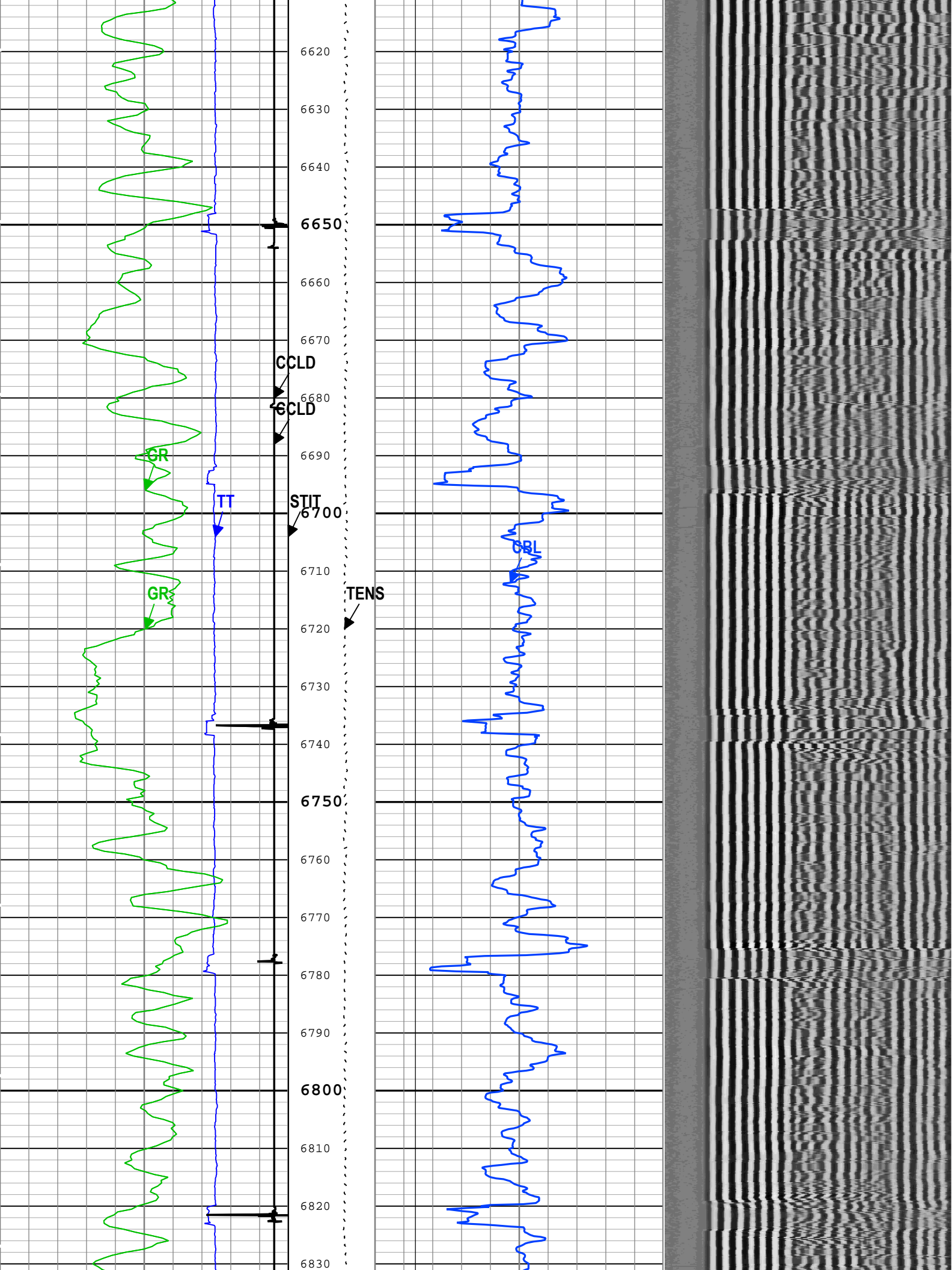


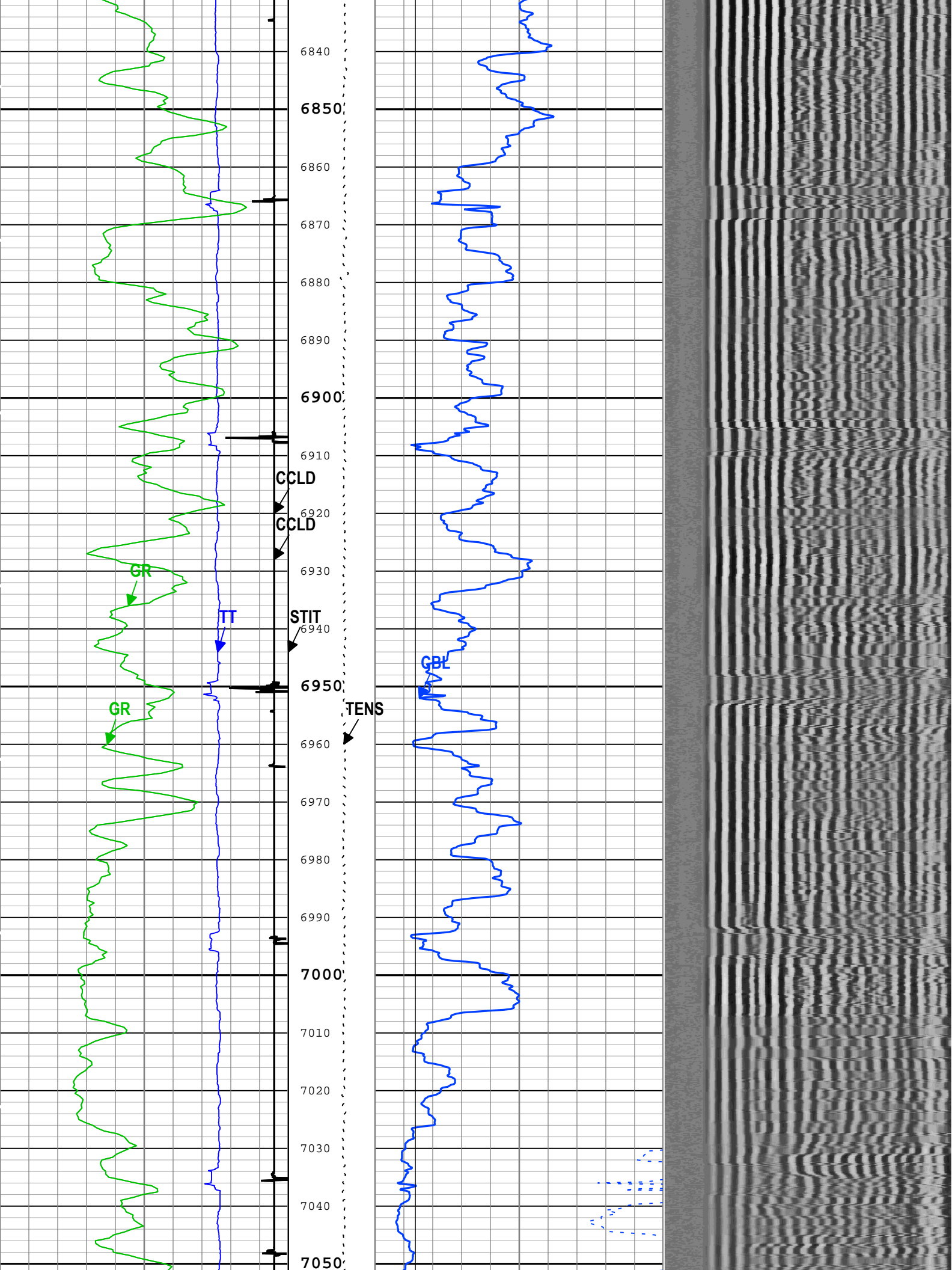


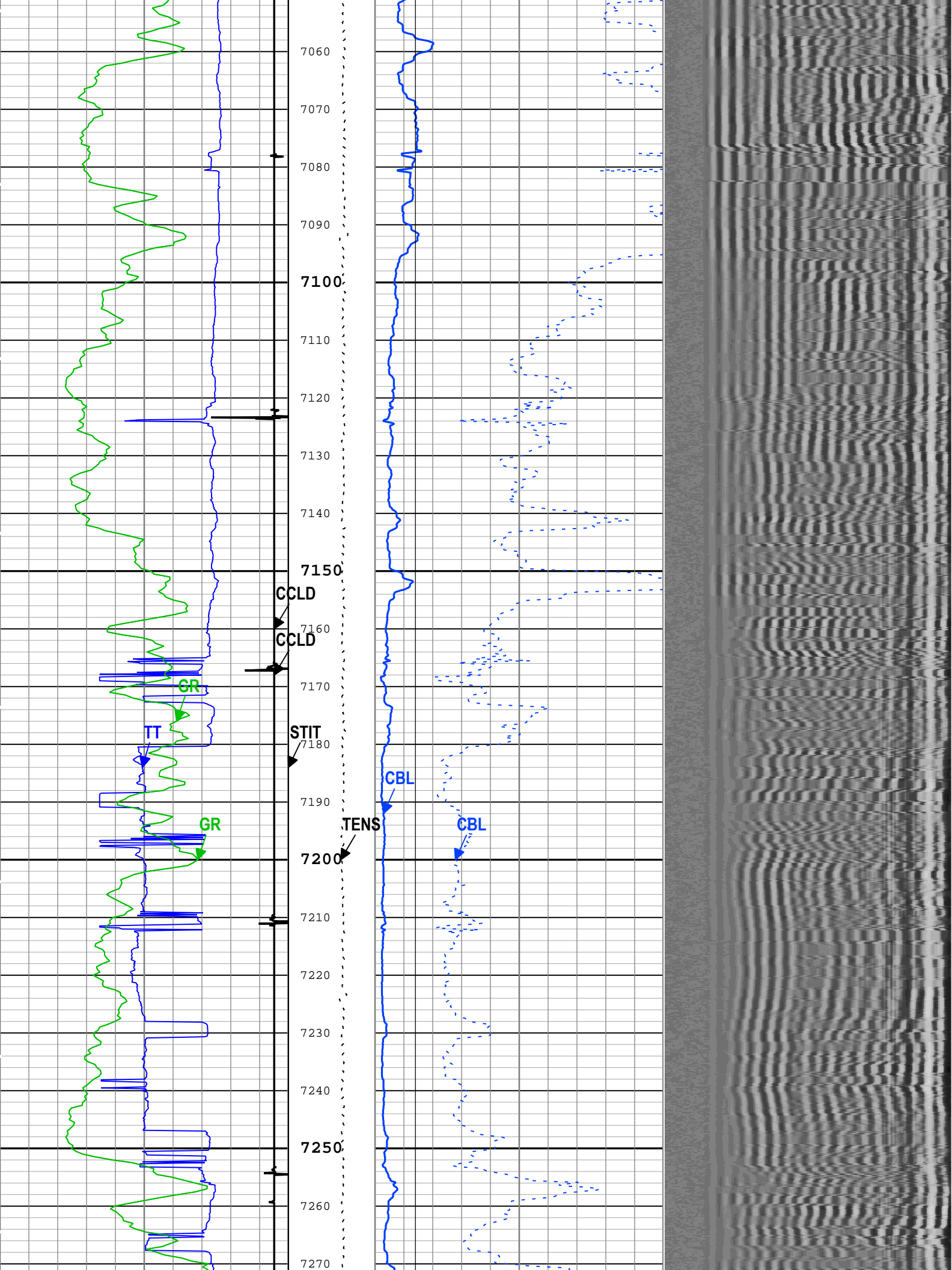


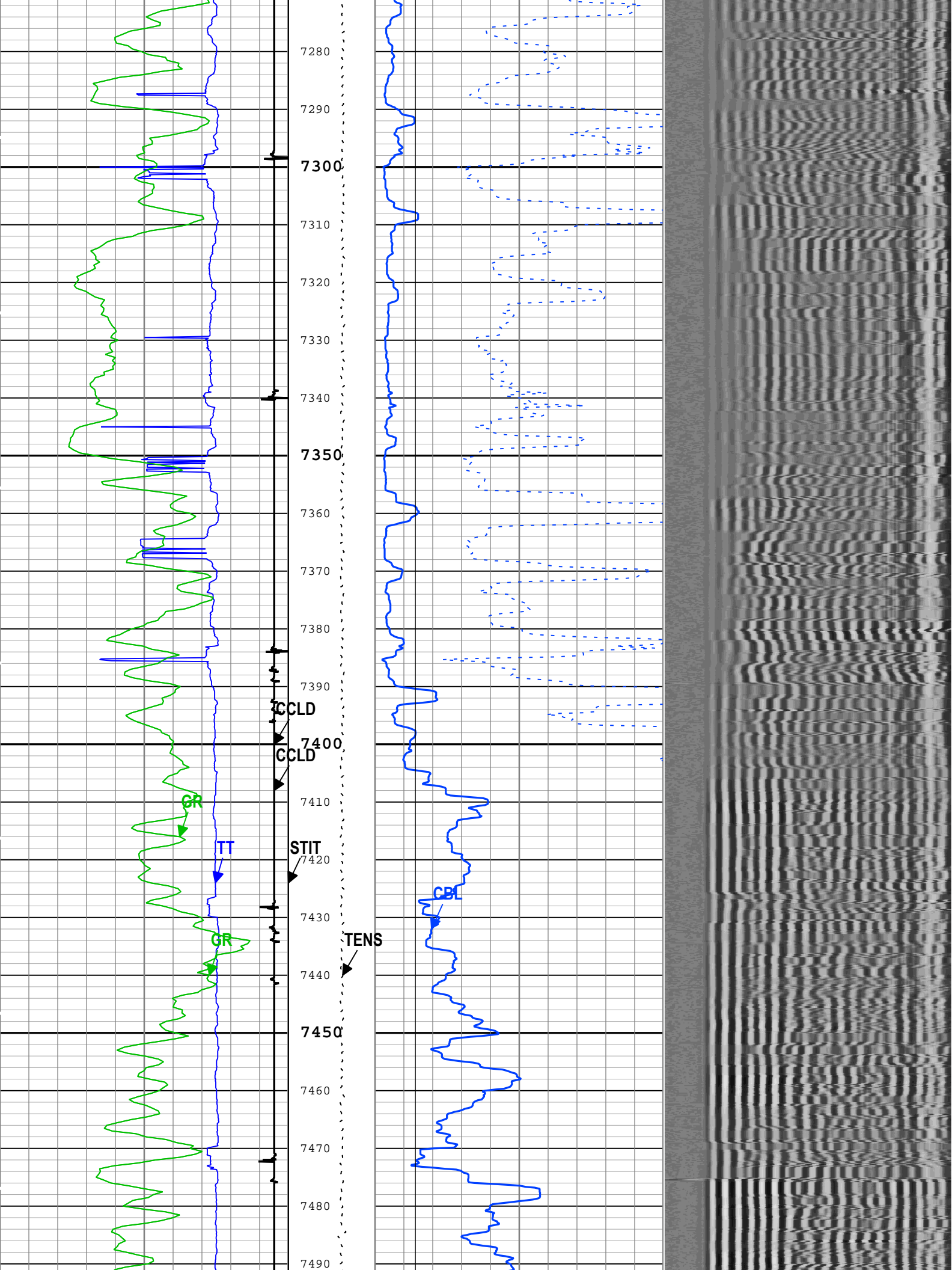


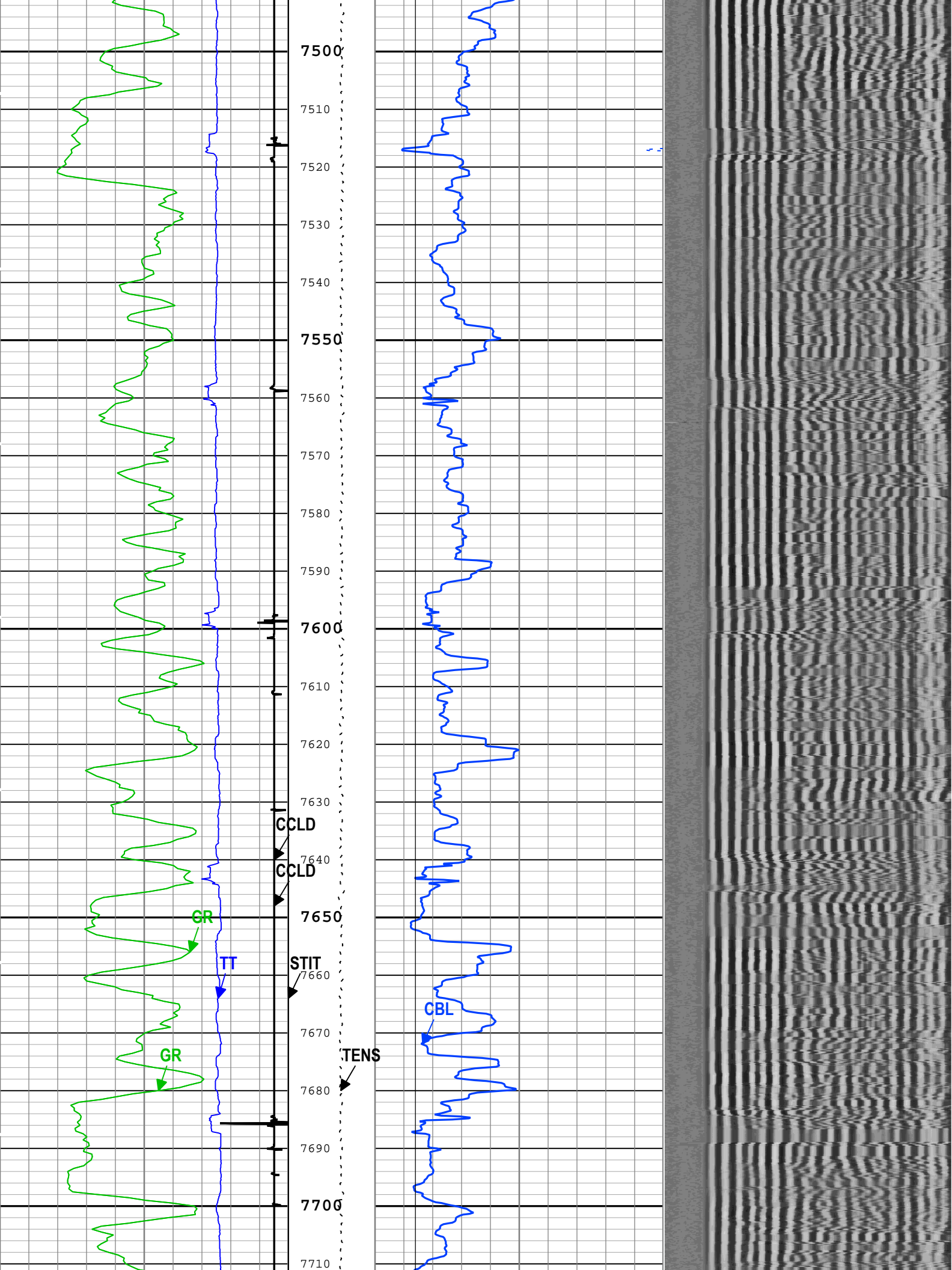


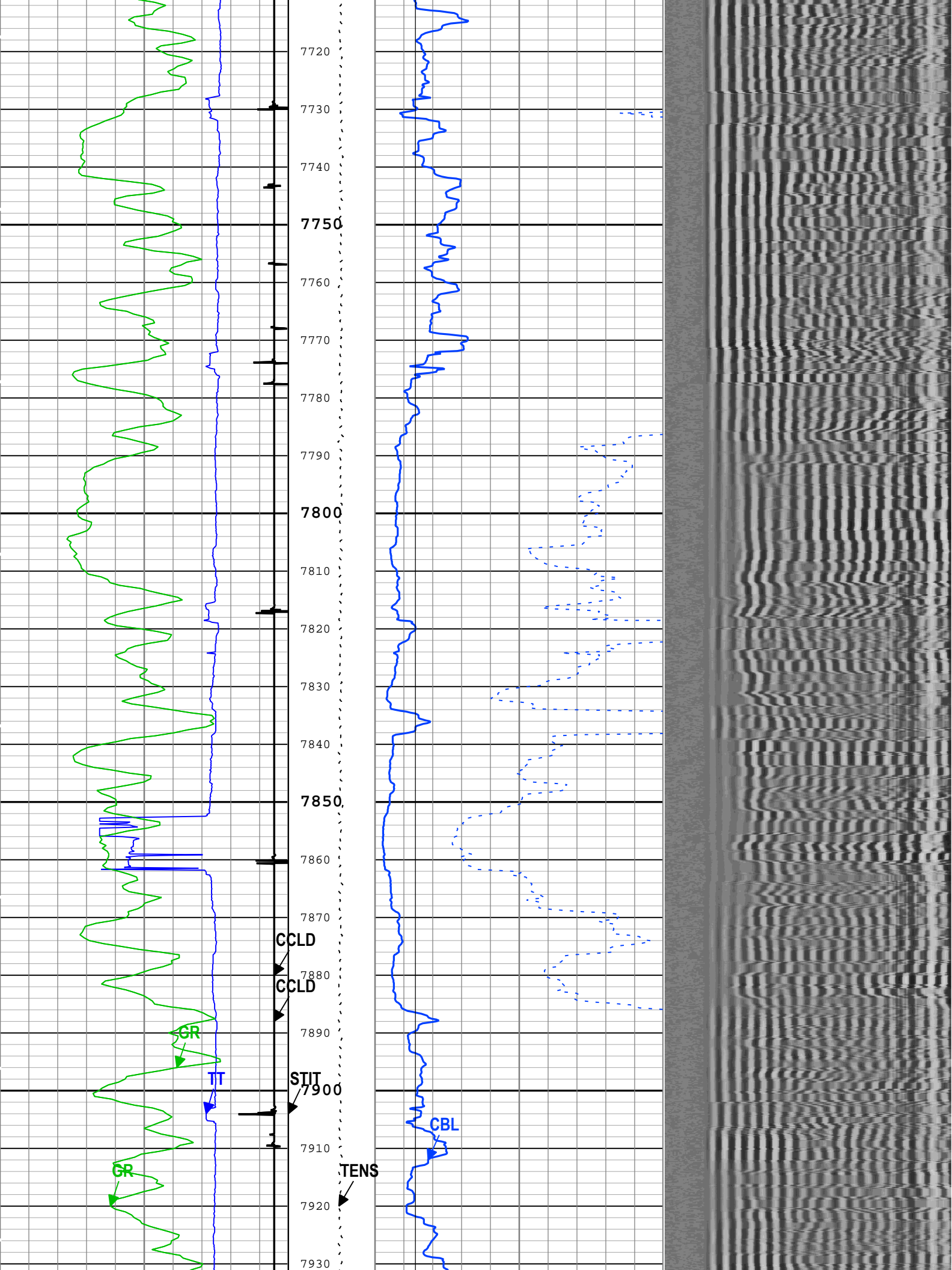


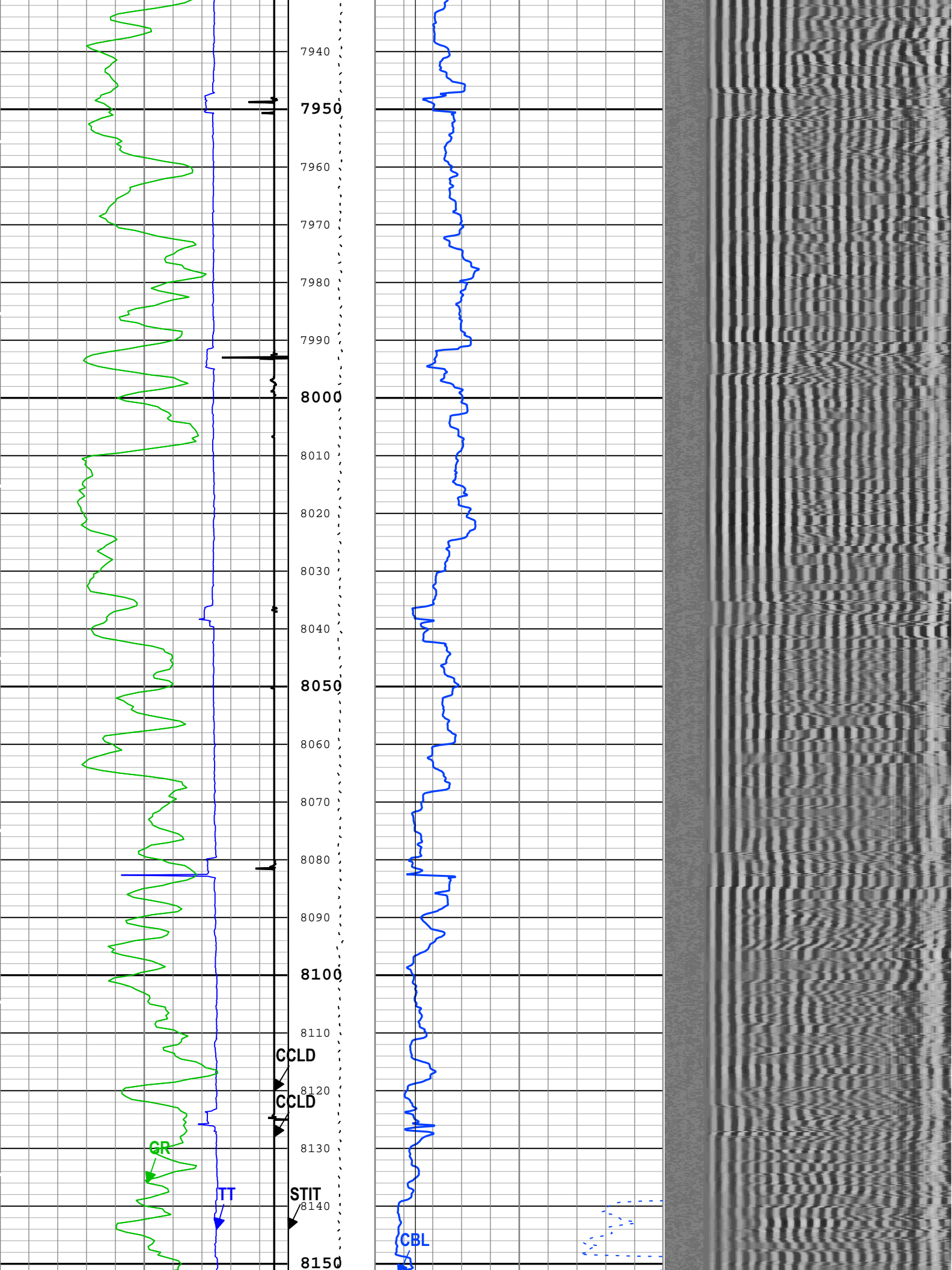


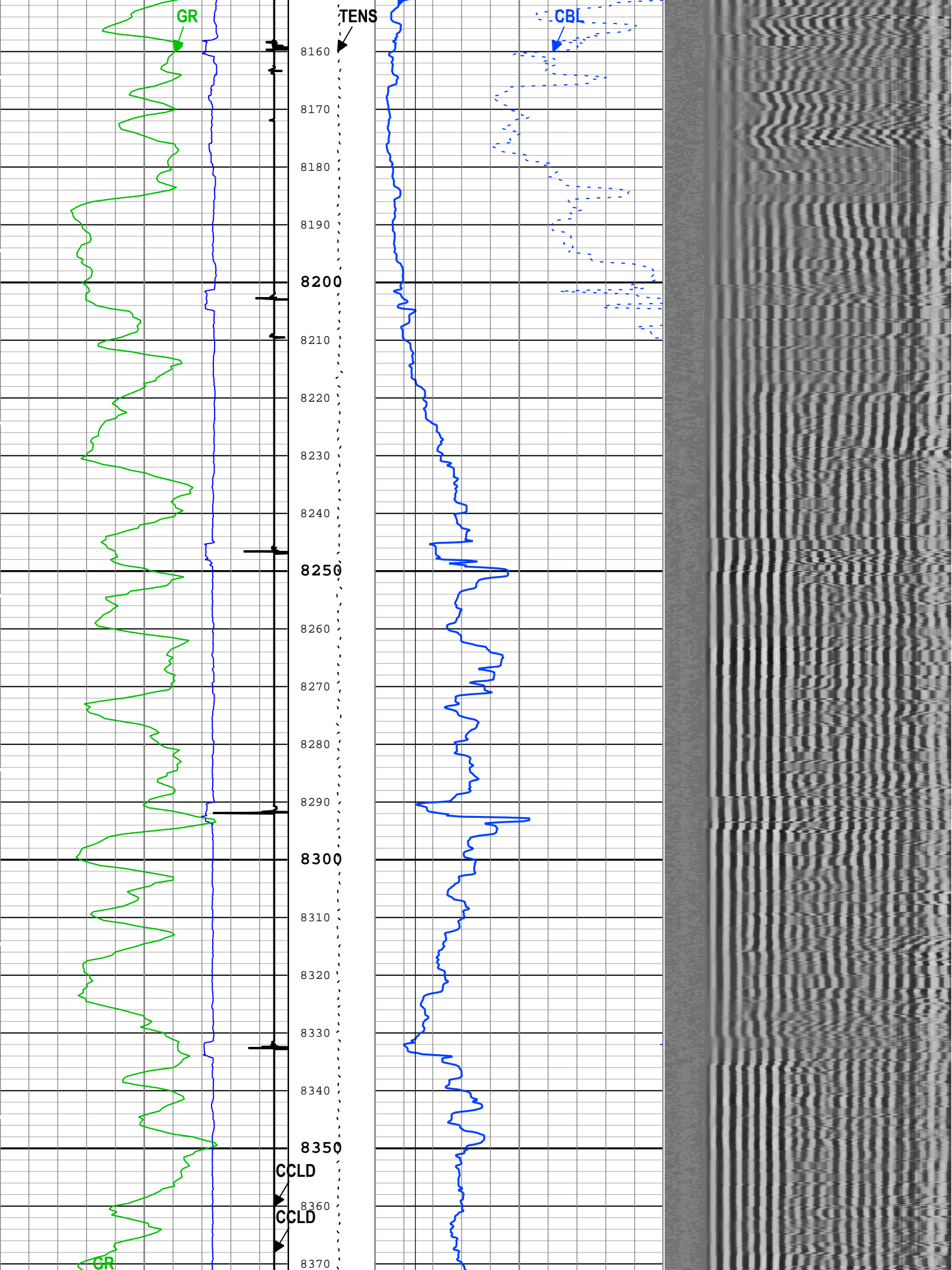


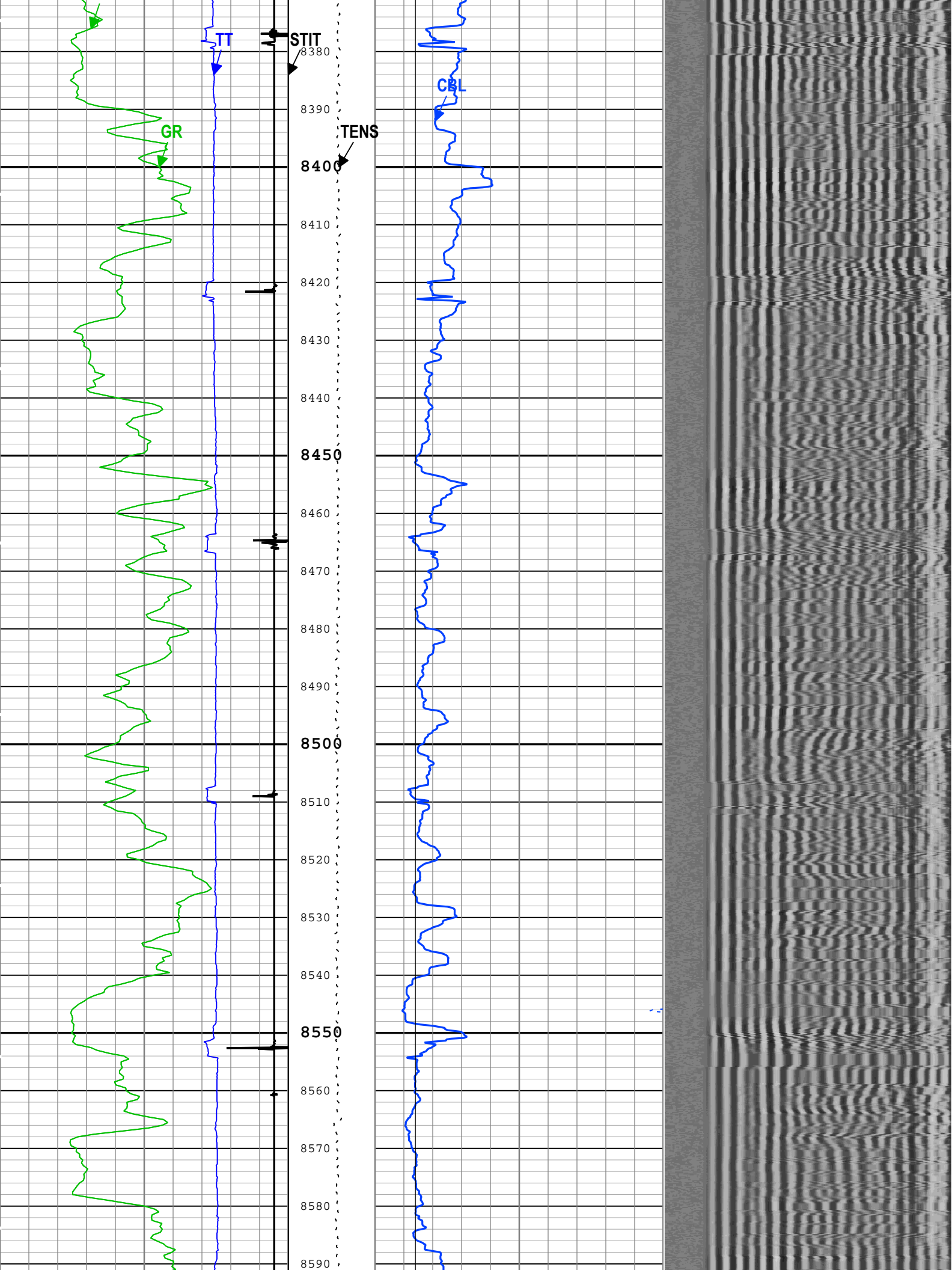


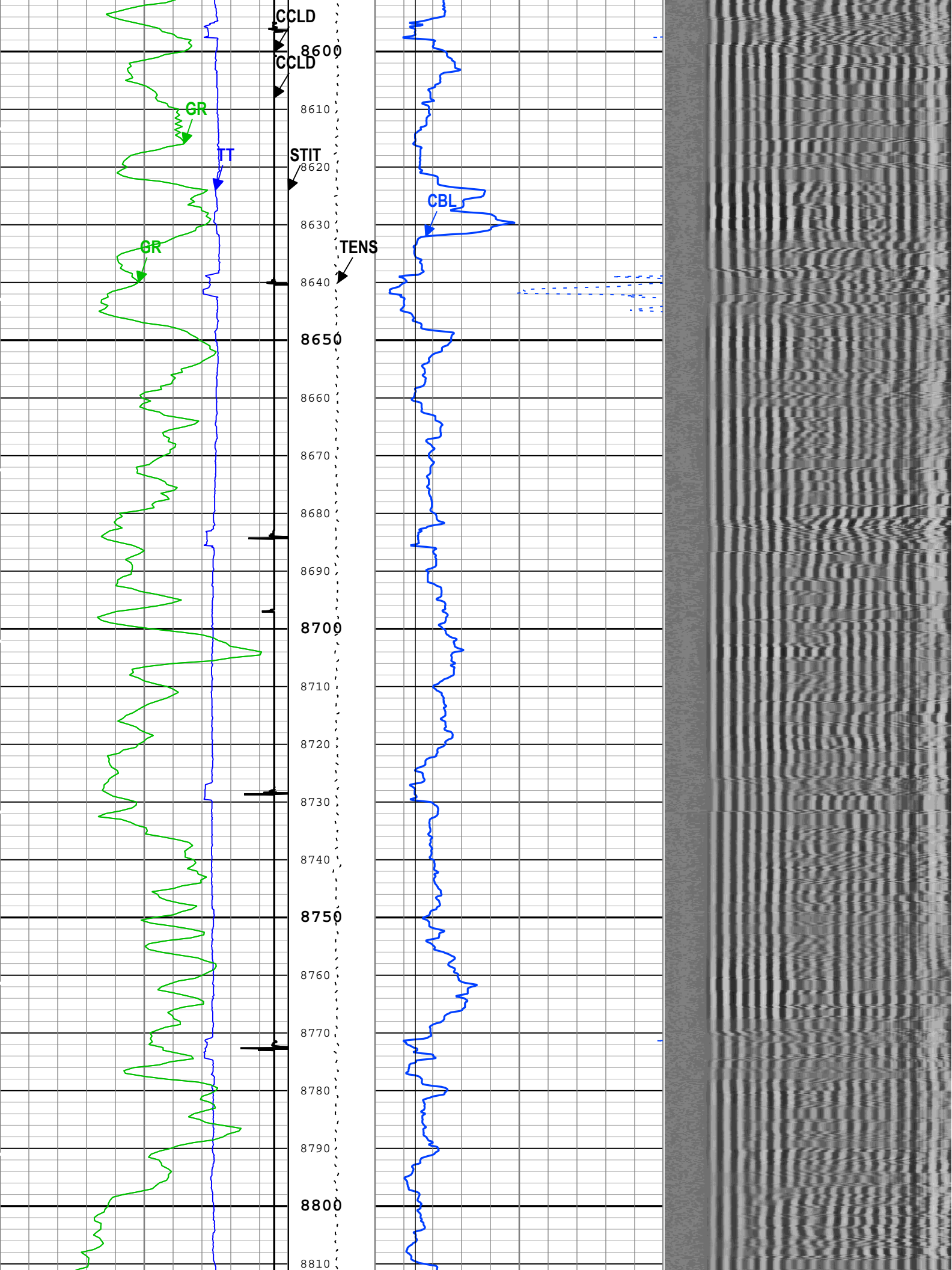


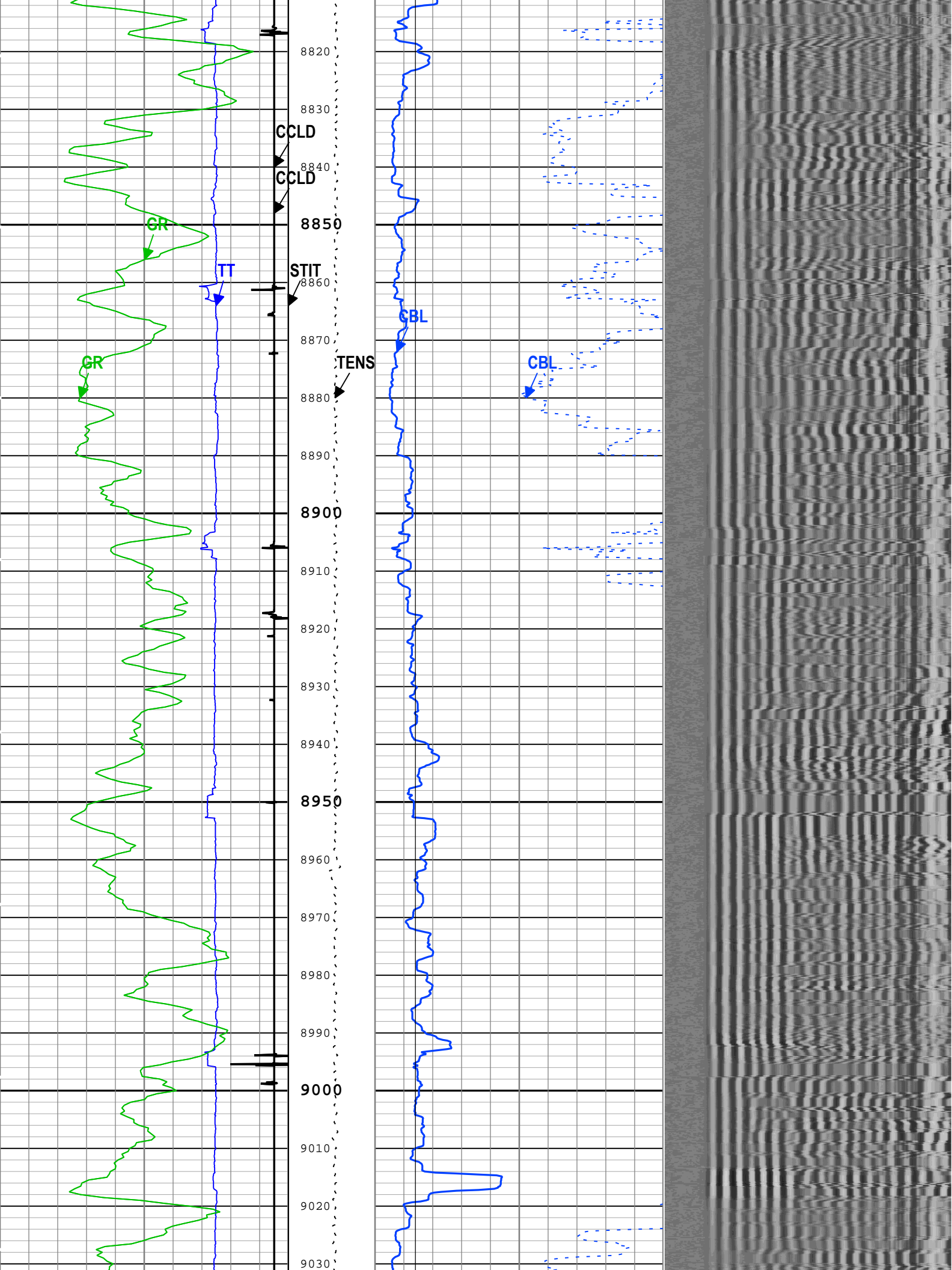


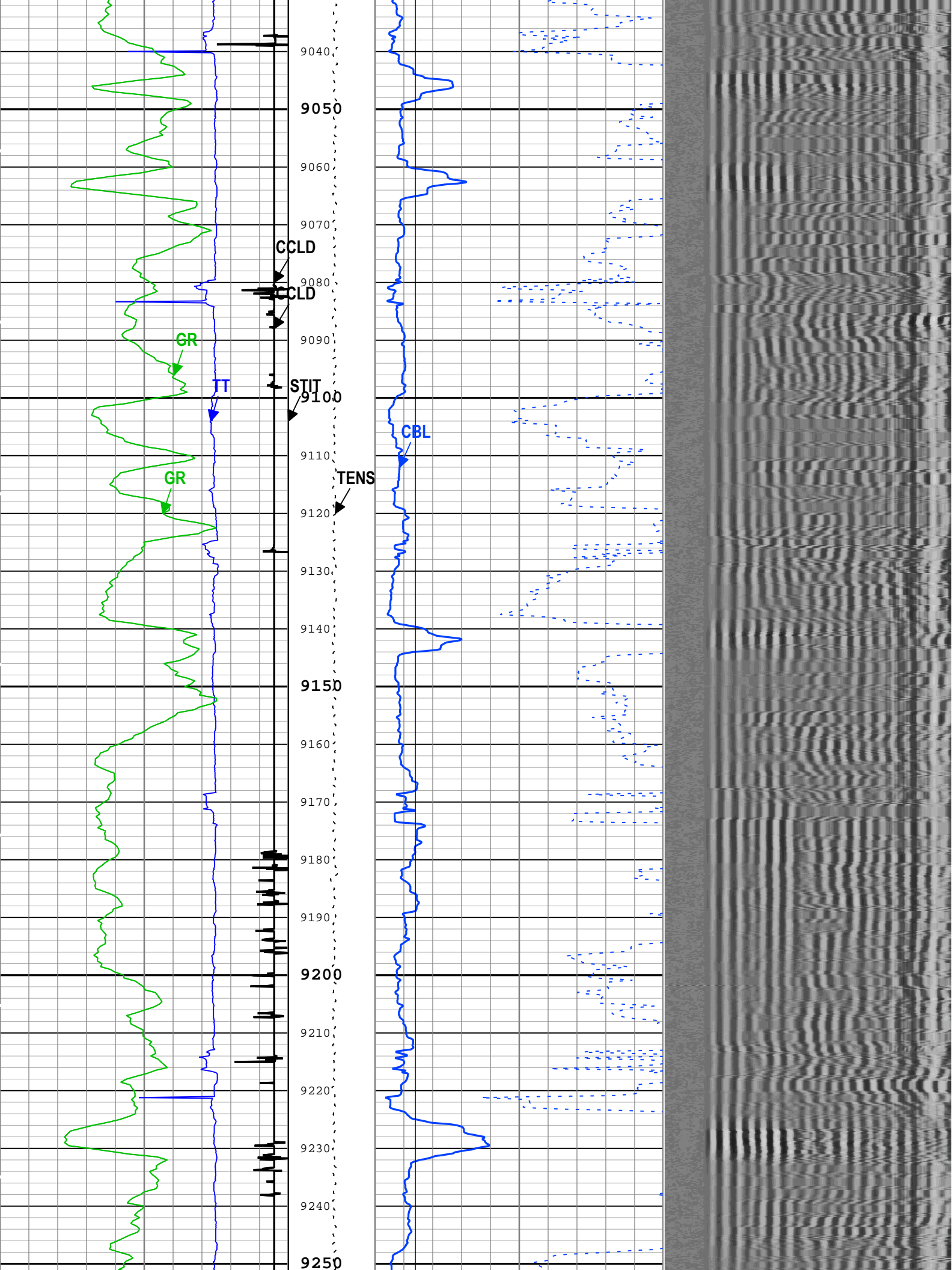


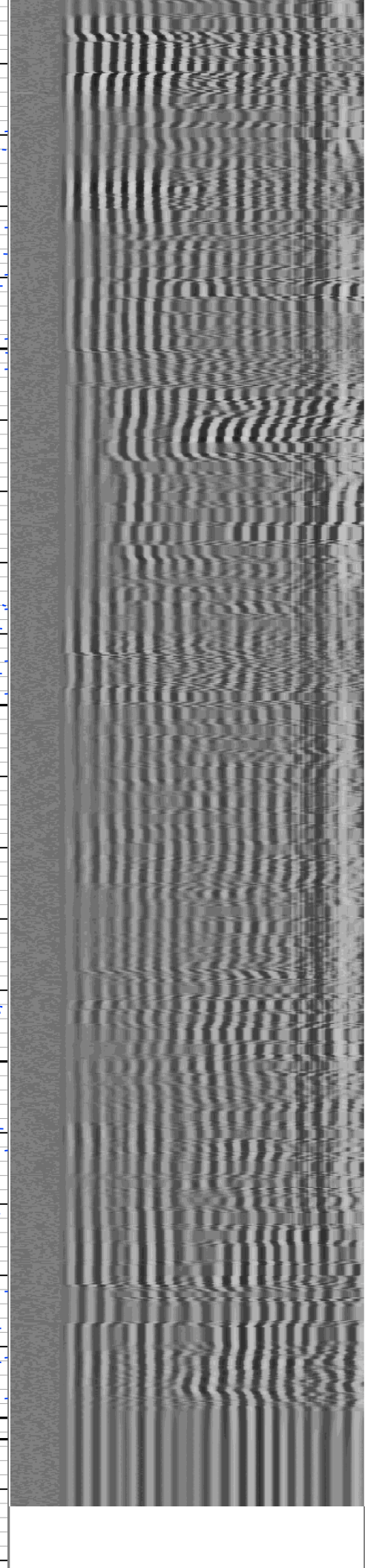
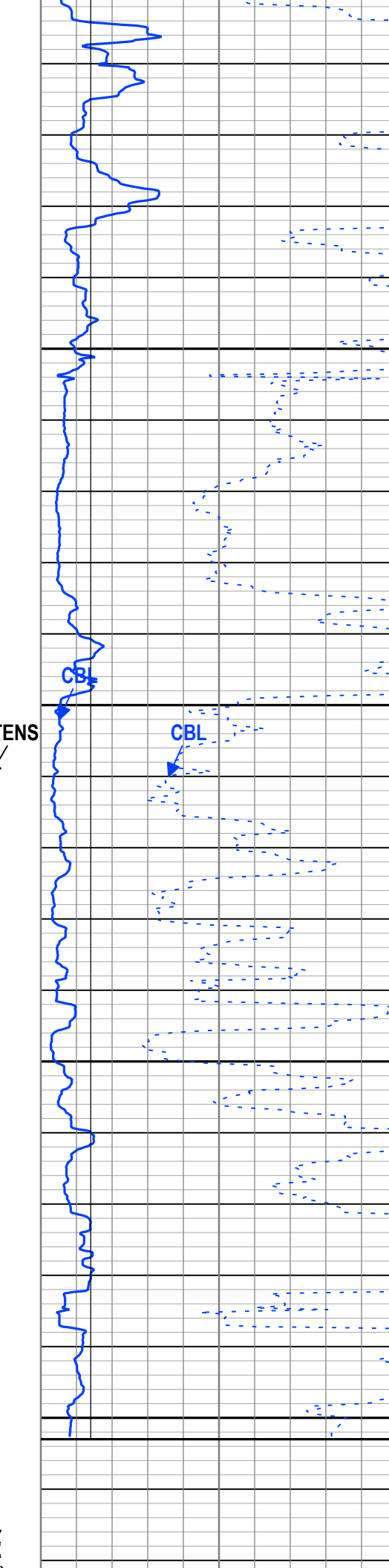
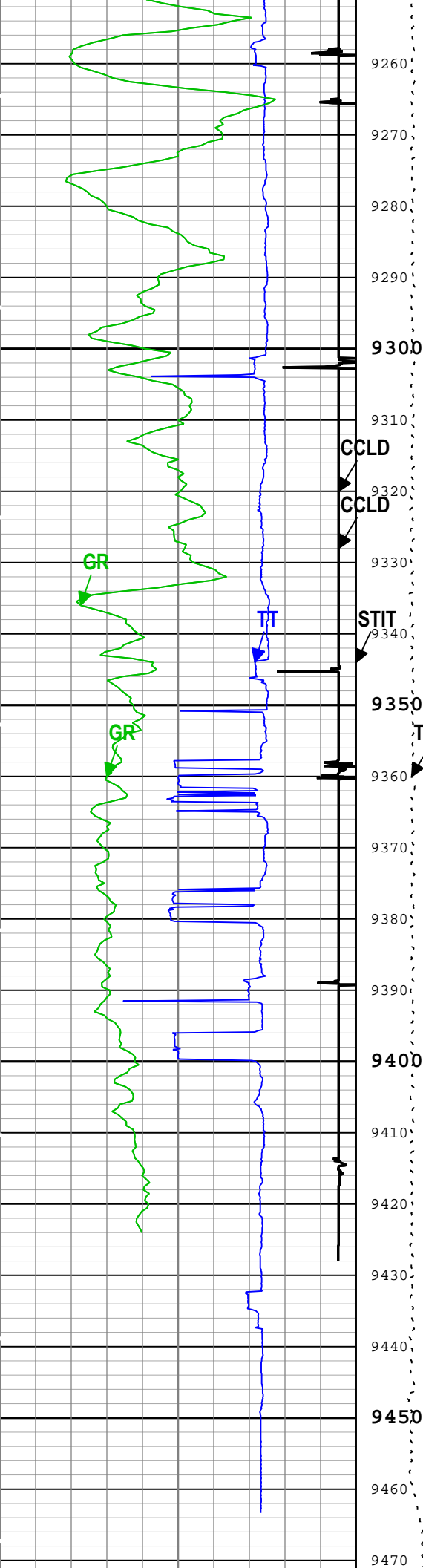












Gamma Ray (GR) PSTP-B[1]		Cable Tension (TENS)	CBL Amplitude (CBL) SCMT-CB[1]		Min	Amplitude	Max
0	gAPI 150		0	mV 10			
Transit Time for CBL (TT) SCMT-CB[1]		3000 lbf	CBL Amplitude (CBL) SCMT-CB[1]		VDL VariableDensity (VDL) SCMT-CB[1]		
400	us 200	Stuck Tool Indicator, Total (STIT)	0	mV 100	200	us	1200
Gamma Ray (GR) PSTP-B[1]			Good Bond (GOBO)				
0	gAPI 150	0	mV 10				
CCL Discriminated Amplitude (CCLD) PSTP-B[1]		0	ft 50		GoodBond From CBL to GOBO		
-19	V 1	Cable Drag					
CCL Discriminated Amplitude (CCLD) PSTP-B[1]		Tool_Tot. Drag					
-19	V 1						
TIME_1900 - Time Marked every 60.00 (s)							
■ BIEP - Bond Index Event Pips SCMT-CB[1]							
Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 09-Sep-2018 00:00:22							

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	281.7	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	230.02	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	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
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	24	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	6709	ft
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	Depth Zoned	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	Depth Zoned	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	Depth Zoned	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	Depth Zoned	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	3	
SHT	Surface Hole Temperature	Borehole	68	degF
TD	Total Measured Depth	Borehole	9455	ft

ONE Depth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
CBRA	80	3400	9453
CBRA	0	9453	9471.98
GOBO_CURR	1.4	3400	9453
GOBO_CURR	0	9453	9471.98

MATT_CURR	16.92	3400	9453
MATT_CURR	0	9453	9471.98
MCI	1.25	3400	9453
MCI	0	9453	9471.98
MSA	0.51	3400	9453
MSA	0	9453	9471.98
MSA_CURR	0.51	3400	9453
MSA_CURR	0	9453	9471.98

All depth are actual.

Tool Control Parameters

ONE: Parameters

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

ONETime Zoned Parameters

Pass Log[3]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
CMTM	Log	07-Sep-2018 06:48:17	07-Sep-2018 08:19:45	9471.98	6760.8
CMTM	Dummy	07-Sep-2018 08:19:45	07-Sep-2018 08:27:35	6760.8	6753.02
PCCG	24 dB	07-Sep-2018 06:48:17	07-Sep-2018 06:51:11	9471.98	9404.82
PCCG	36 dB	07-Sep-2018 06:51:11	07-Sep-2018 06:57:30	9404.82	9219.84
PCCG	24 dB	07-Sep-2018 06:57:30	07-Sep-2018 08:27:35	9219.84	6753.02

Pass Log[4]:Up

CMTM	Log	07-Sep-2018 09:14:21	07-Sep-2018 09:41:04	6846.09	6101.68
PCCG	24 dB	07-Sep-2018 09:14:21	07-Sep-2018 09:41:04	6846.09	6101.68

Pass Log[5]:Up

CMTM	Log	07-Sep-2018 14:53:14	07-Sep-2018 17:01:45	6169.01	2251.68
PCCG	12 dB	07-Sep-2018 14:53:14	07-Sep-2018 17:01:45	6169.01	2251.68

All depth are at tool zero.

ONE

Software Version

Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[2]:Up	Up	9007.95 ft	9470.87 ft	07-Sep-2018 6:19:03 AM	07-Sep-2018 6:35:02 AM	ON	-9.16 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Caerus Operating LLC Well:NPR 13D-10 596

ONE: Log[2]:Up:S011

Description: Sonic CBL with VDI Format: Log (Sonic CBL with VDI) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation

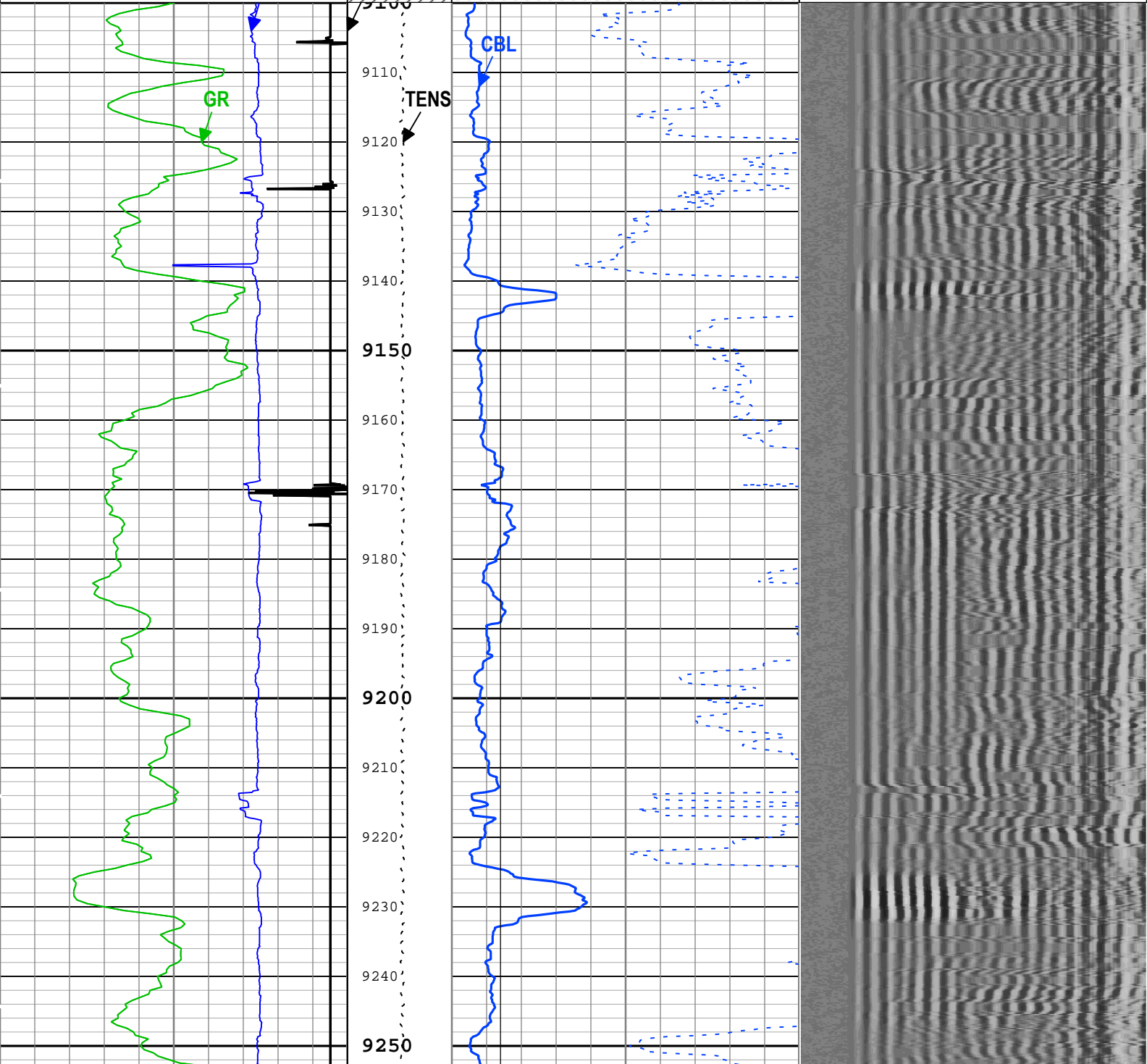
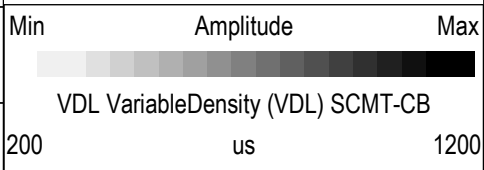
■ BIEP - Bond Index Event Pips SCMT-CB

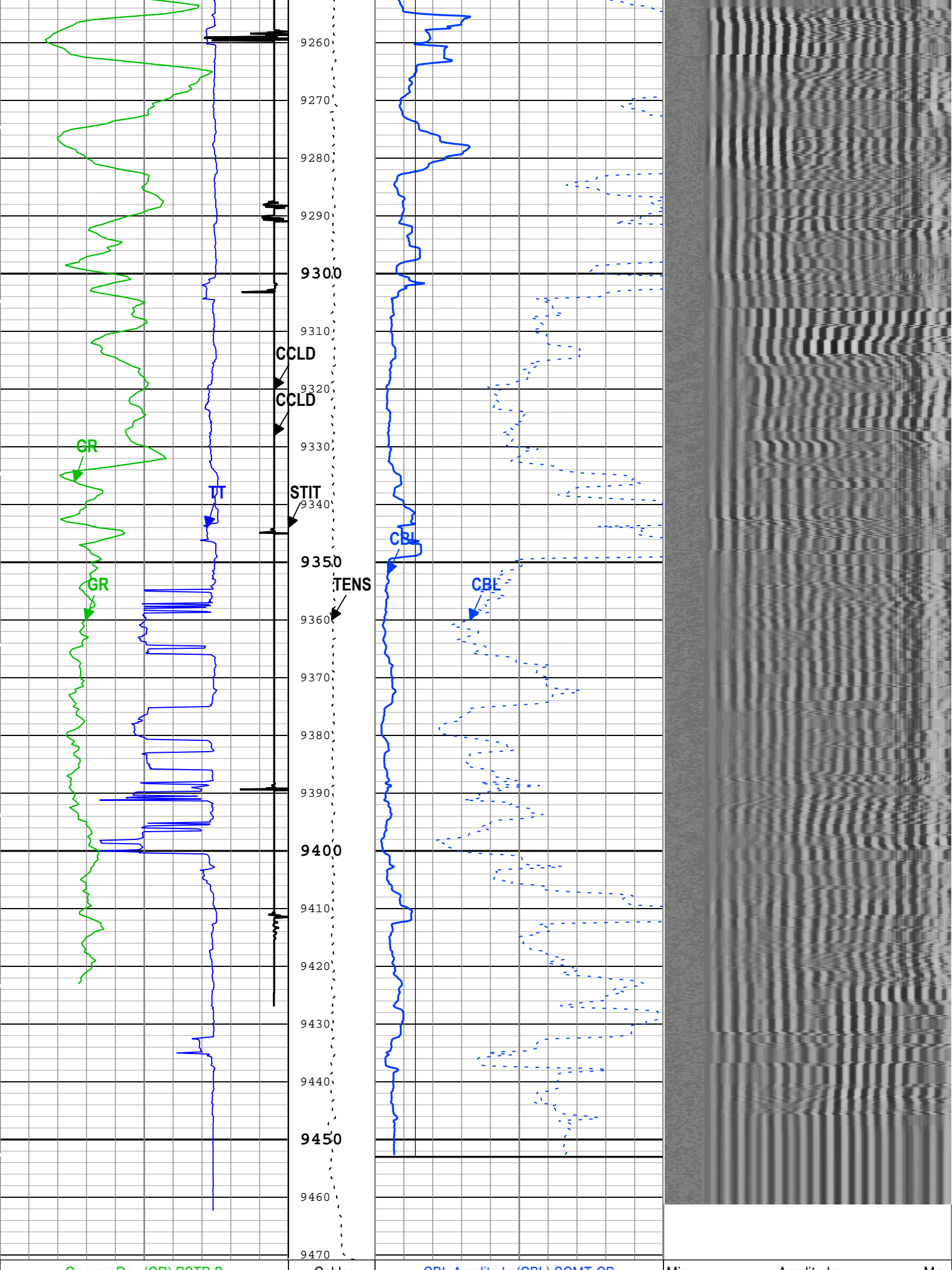
TIME_1900 - Time Marked every 60.00 (s)

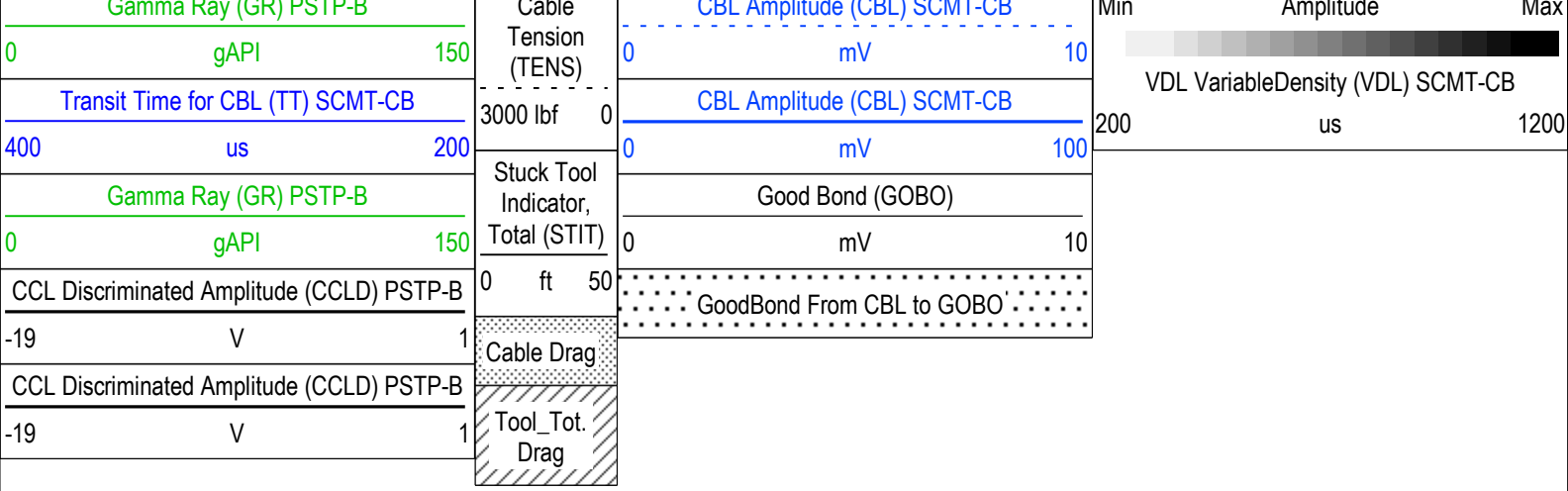
Gamma Ray (GR) PSTP-B		
0	gAPI	150
Transit Time for CBL (TT) SCMT-CB		
400	us	200
Gamma Ray (GR) PSTP-B		
0	gAPI	150
CCL Discriminated Amplitude (CCLD) PSTP-B		
-19	V	1
CCL Discriminated Amplitude (CCLD) PSTP-B		
-19	V	1

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

CBL Amplitude (CBL) SCMT-CB	0	mV	10
CBL Amplitude (CBL) SCMT-CB	0	mV	100
Good Bond (GOBO)	0	mV	10
GoodBond From CBL to GOBO	200	us	1200







TIME_1900 - Time Marked every 60.00 (s)

■ BIEP - Bond Index Event Pips SCMT-CB

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: 09-Sep-2018 00:01:12

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	281.7	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	230.02	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	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
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	24	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	6709	ft
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	Depth Zoned	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	Depth Zoned	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	Depth Zoned	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	Depth Zoned	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	3	
SHT	Surface Hole Temperature	Borehole	68	degF
TD	Total Measured Depth	Borehole	9455	ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
CBRA	80	9100	9453
CBRA	0	9453	9470.83
GOBO_CURR	1.4	9100	9453
GOBO_CURR	0	9453	9470.83
MATT_CURR	16.92	9100	9453
MATT_CURR	0	9453	9470.83

MCI	1.25	9100	9453
MCI	0	9453	9470.83
MSA	0.51	9100	9453
MSA	0	9453	9470.83
MSA_CURR	0.51	9100	9453
MSA_CURR	0	9453	9470.83

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-B	Time Zoned	

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
PCCG	24 dB	07-Sep-2018 06:19:03	07-Sep-2018 06:23:57	9470.87	9335.69
PCCG	36 dB	07-Sep-2018 06:23:57	07-Sep-2018 06:34:22	9335.69	9026.74
PCCG	24 dB	07-Sep-2018 06:34:22	07-Sep-2018 06:35:02	9026.74	9007.95

All depth are at tool zero.

ONE

Software Version

Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	1129.85 ft	3466.80 ft	07-Sep-2018 10:33:26 PM	07-Sep-2018 11:40:39 PM	ON	12.21 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Caerus Operating LLC Well:NPR 13D-10 596

ONE: Log[4]:Up:S011

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: 09-Sep-2018 00:01:29

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

TIME_1900 - Time Marked every 60.00 (s)

—|IHV - Integrated Hole Volume every 10.00 (ft3)

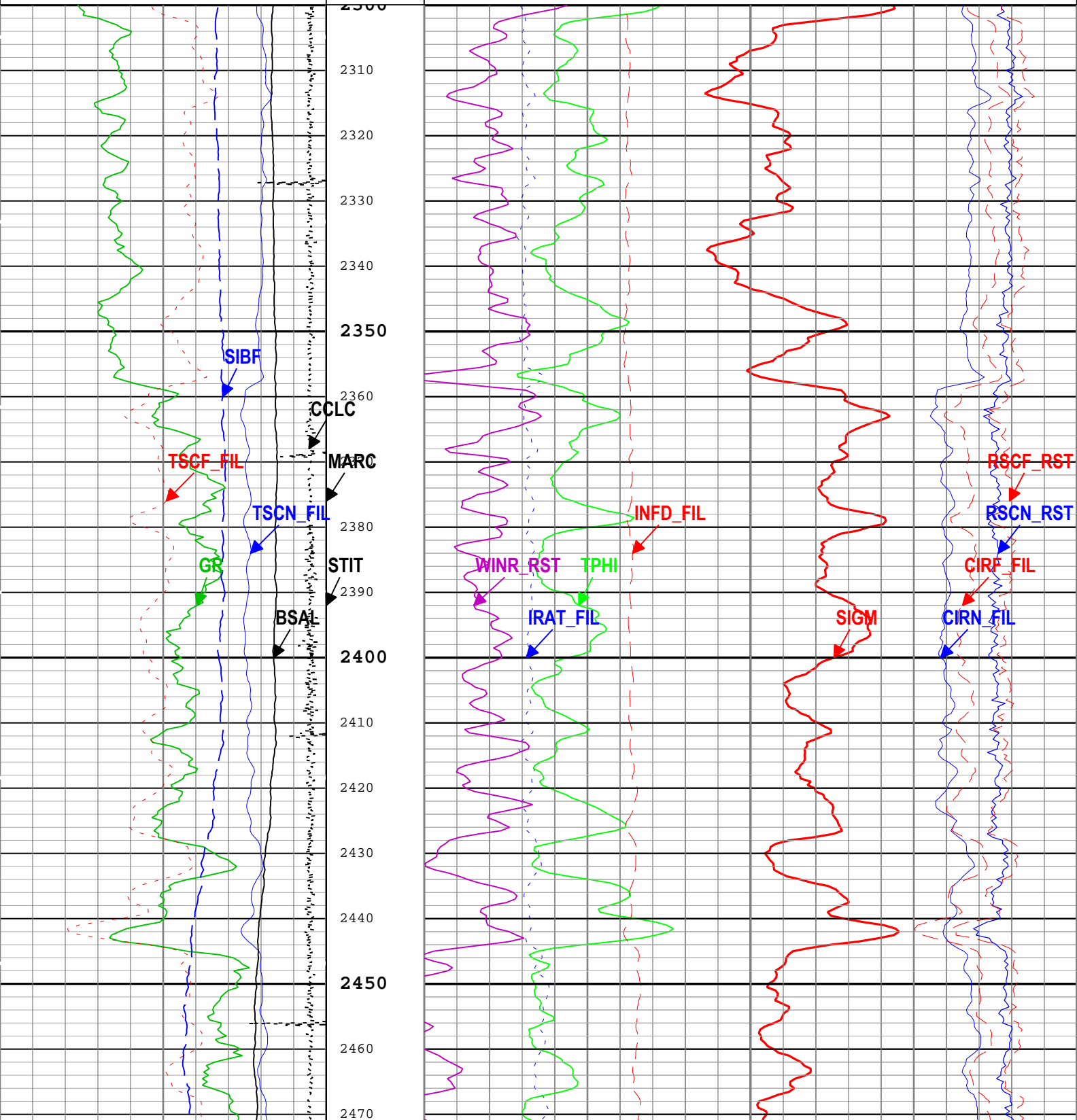
—|IHV - Integrated Hole Volume every 100.00 (ft3)

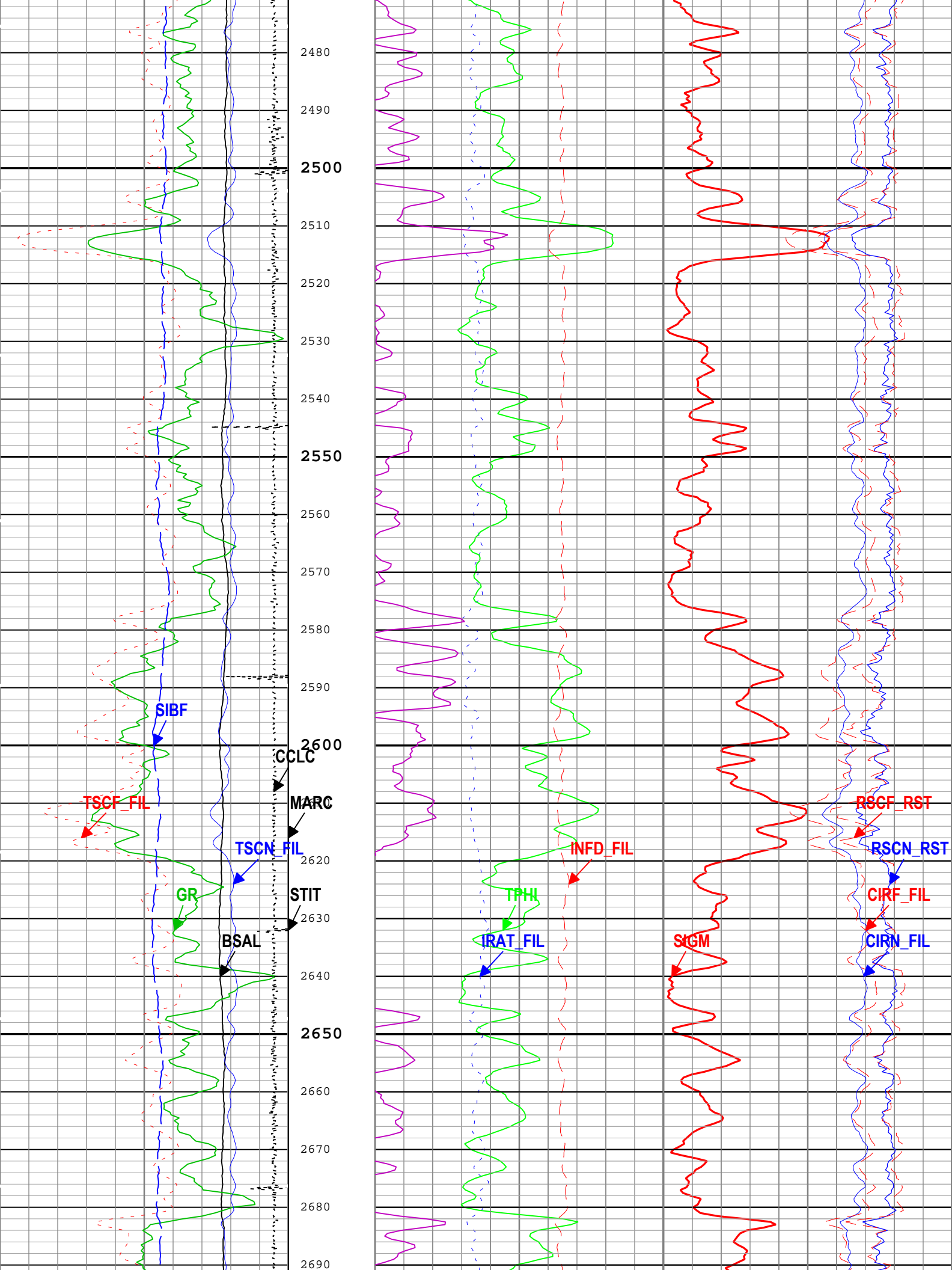
—|ICV - Integrated Cement Volume every 10.00 (ft3)

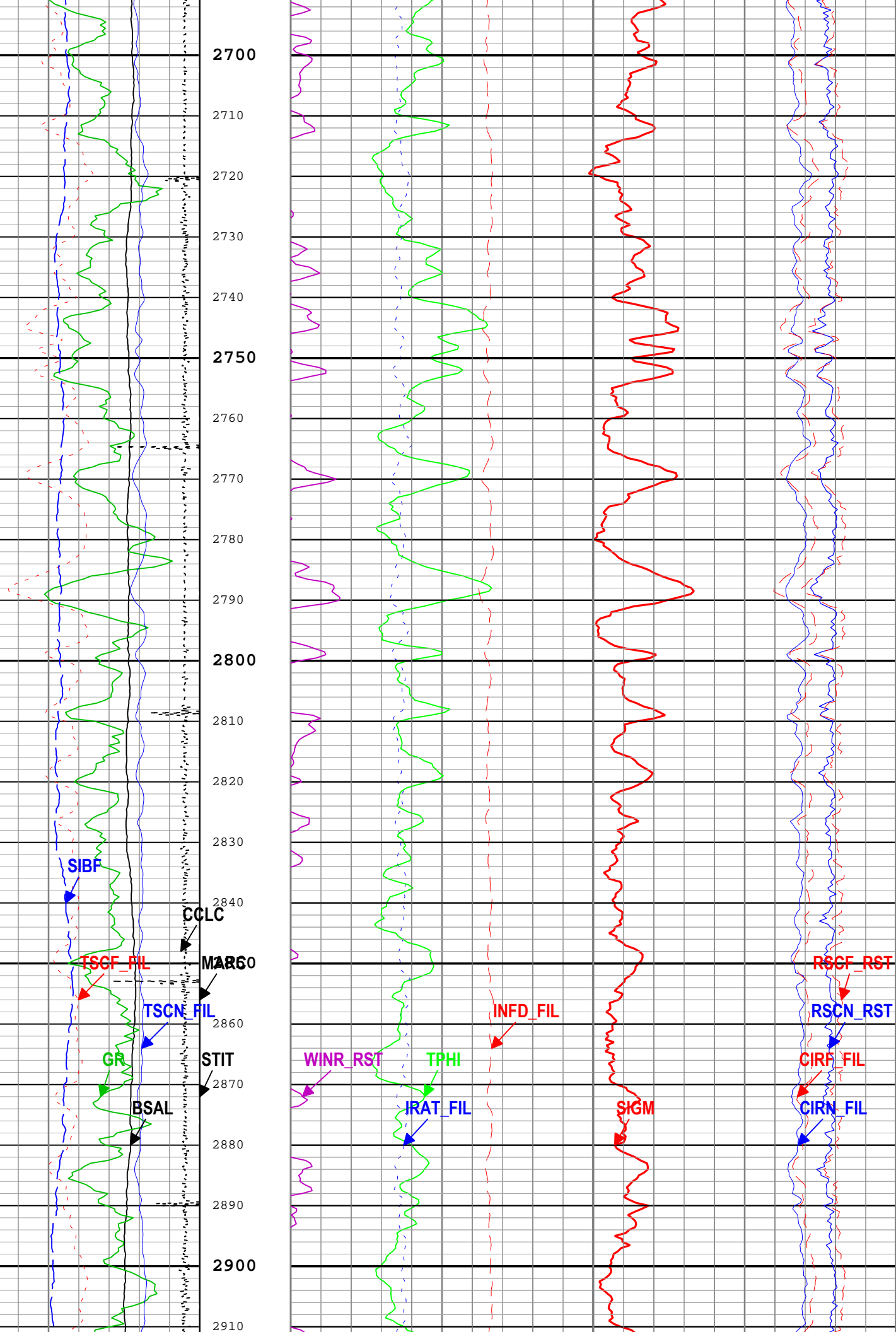
—|ICV - Integrated Cement Volume every 100.00 (ft3)

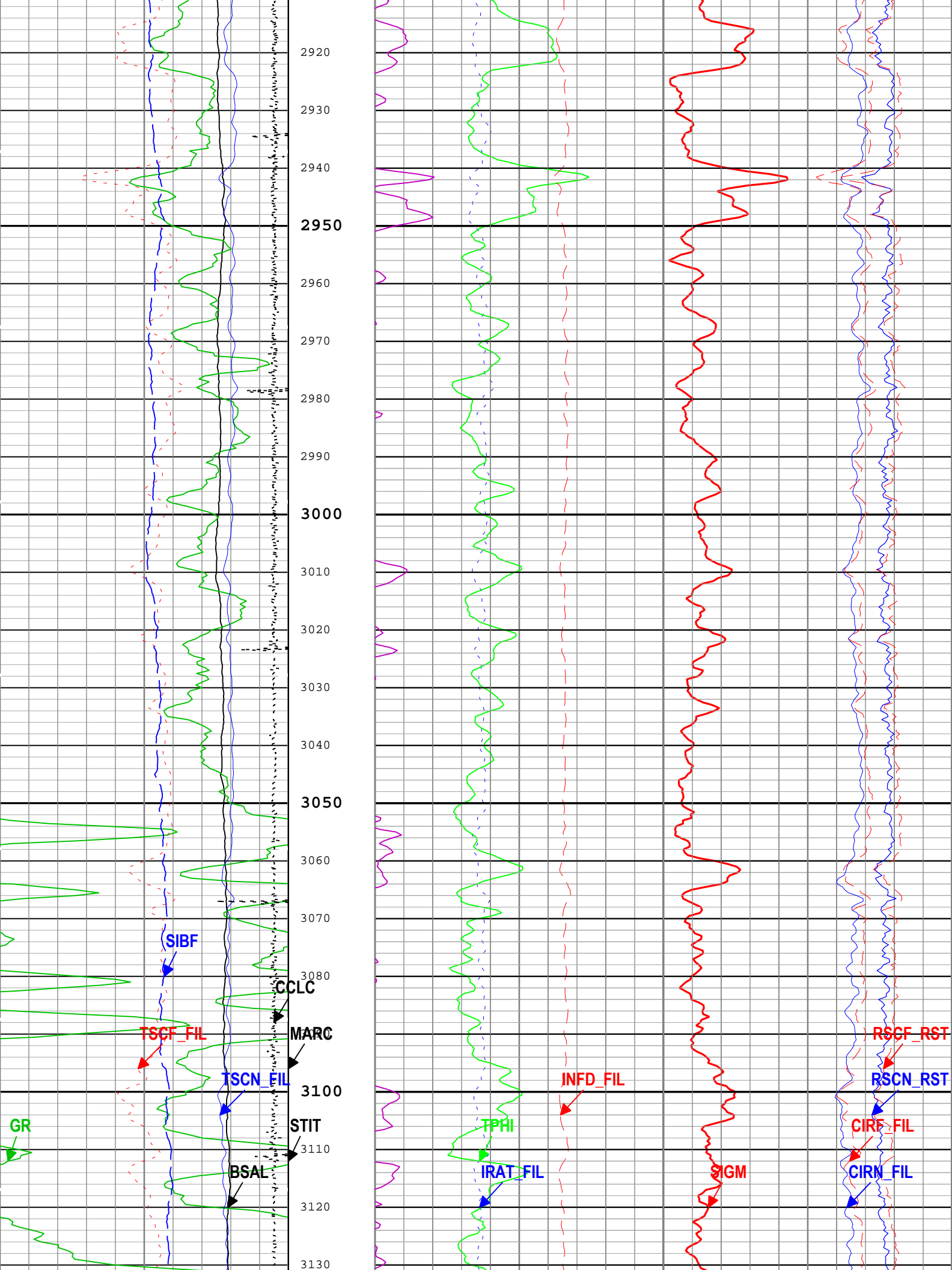
Borehole Salinity (BSAL) RST-C	Stuck Tool Indicator, Total (STIT)	Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C
450 ppk -50	0 ft 50	2.5 0
Gamma Ray (GR) PSTP-B	Inelastic Ratio Filtered (IRAT_FIL) RST-C	Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C
		5 5

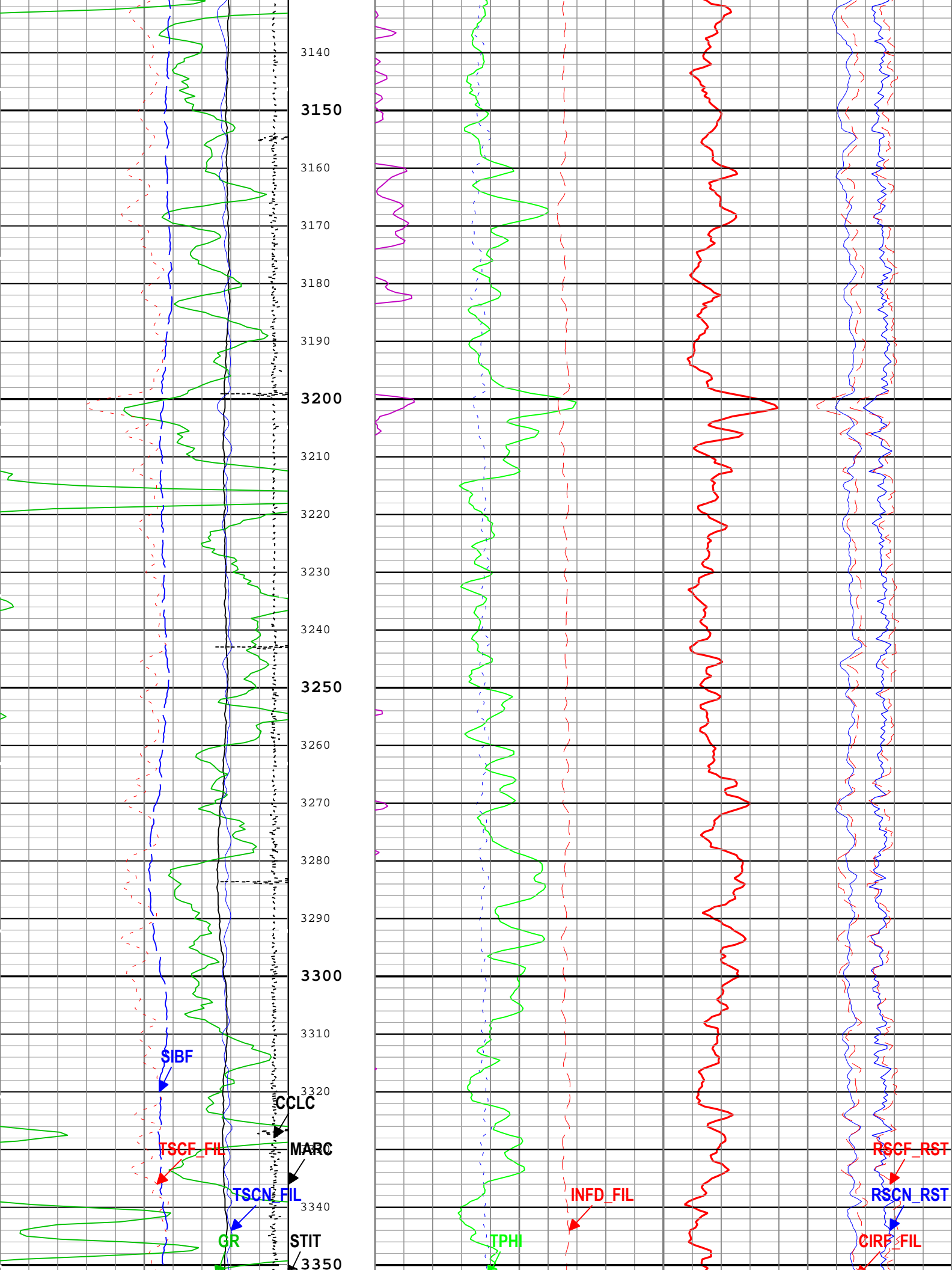
gAPI 150		Cable Drag From STIA to STIT	0.75	0	Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C			Thermal Decay Porosity (TPHI) RST-C		
30000	1/s	0	0.6	ft3/ft3	0
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C		Tool_Tot. Drag From D3T to STIT	Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C		Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
12000	1/s	0	10000	1/s	0
CCL Computed Amplitude (CCLC) PSTP-B		Minitron Arc Count (MARC) RST-C	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
-19	V	1	60	cu	0
Sigma Borehole Fluid (SIBF) RST-C			Weighted Inelastic Ratio (WINR_RST) RST-C		
100	cu	0	0		0.4

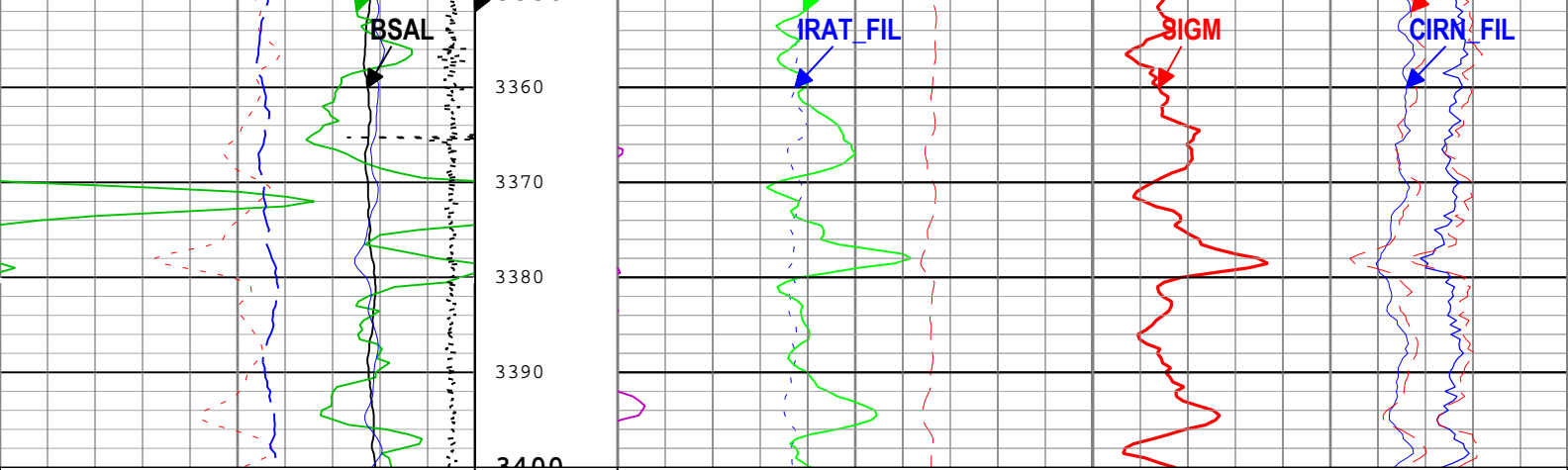












Borehole Salinity (BSAL) RST-C 450 ppk -50	Stuck Tool Indicator, Total (STIT) 0 ft 50	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C 60 cu 0
Gamma Ray (GR) PSTP-B 0 gAPI 150	Cable Drag From STIA to STIT	Weighted Inelastic Ratio (WINR_RST) RST-C 0 0.4
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C 30000 1/s 0	Tool_Tot. Drag From D3T to STIT	Inelastic Ratio Filtered (IRAT_FIL) RST-C 0.75 0
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C 12000 1/s 0	Minitron Arc Count (MARC) RST-C 0 5	Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C 2.5 0
CCL Computed Amplitude (CCLC) PSTP-B -19 V 1		Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C 5 0
Sigma Borehole Fluid (SIBF) RST-C 100 cu 0		Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C 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 - Time Marked every 60.00 (s)
 —| TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)

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: 09-Sep-2018 00:01:29

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	9455	ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
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BS	14.75	2300	2400
BS	8.75	2400	3400

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	24 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

Composite 1

Software Version

Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[3]:Up	Up	6753.03 ft	9471.98 ft	07-Sep-2018 6:48:17 AM	07-Sep-2018 8:27:35 AM	ON	-8.65 ft	Yes
ONE	Log[4]:Up	Up	6105.93 ft	6891.94 ft	07-Sep-2018 9:12:34 AM	07-Sep-2018 9:41:04 AM	ON	-8.59 ft	Yes
ONE	Log[5]:Up	Up	2255.86 ft	6268.28 ft	07-Sep-2018 2:49:36 PM	07-Sep-2018 5:01:45 PM	ON	-32.67 ft	Yes

All depths are referenced to toolstring zero

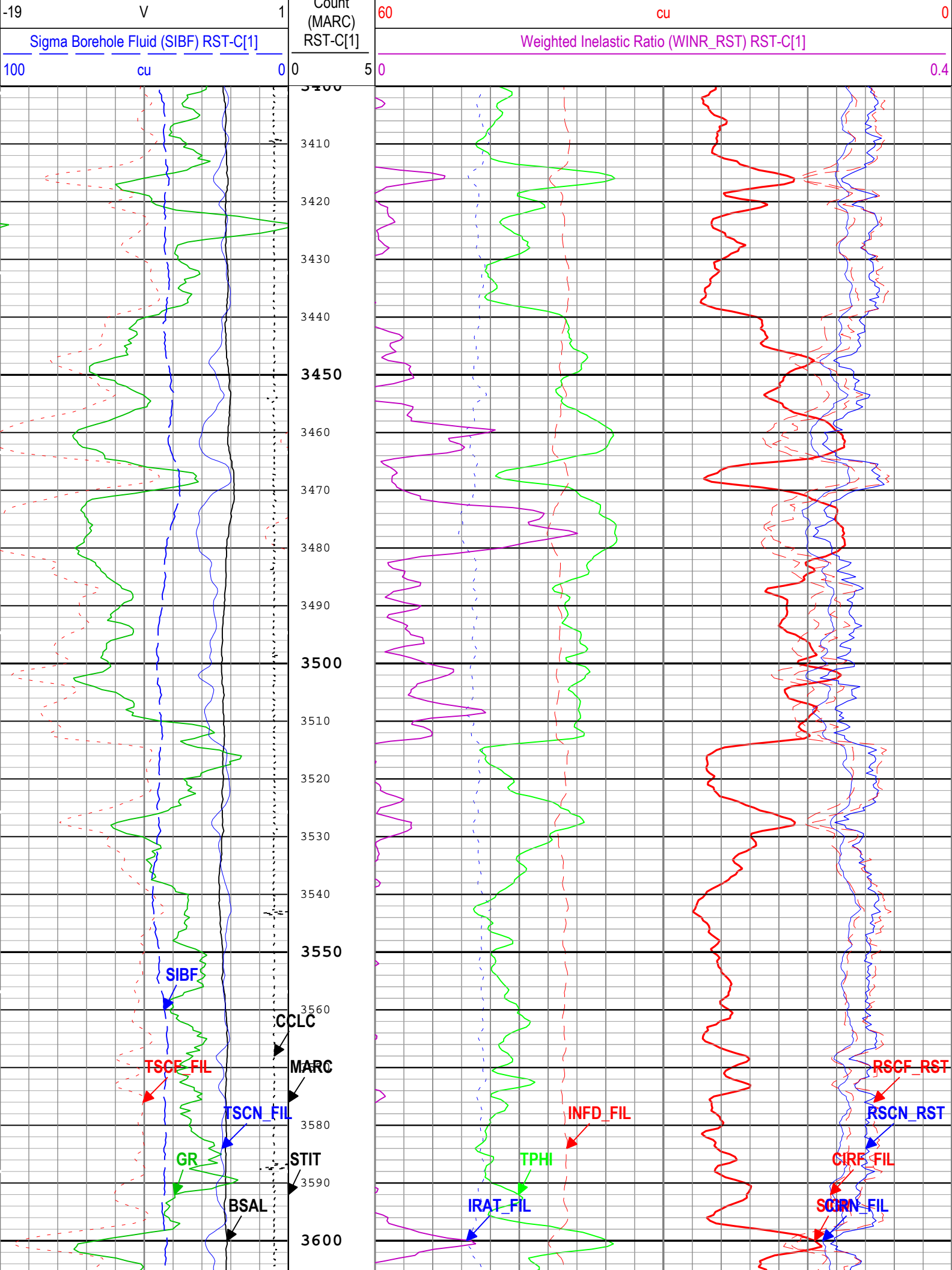
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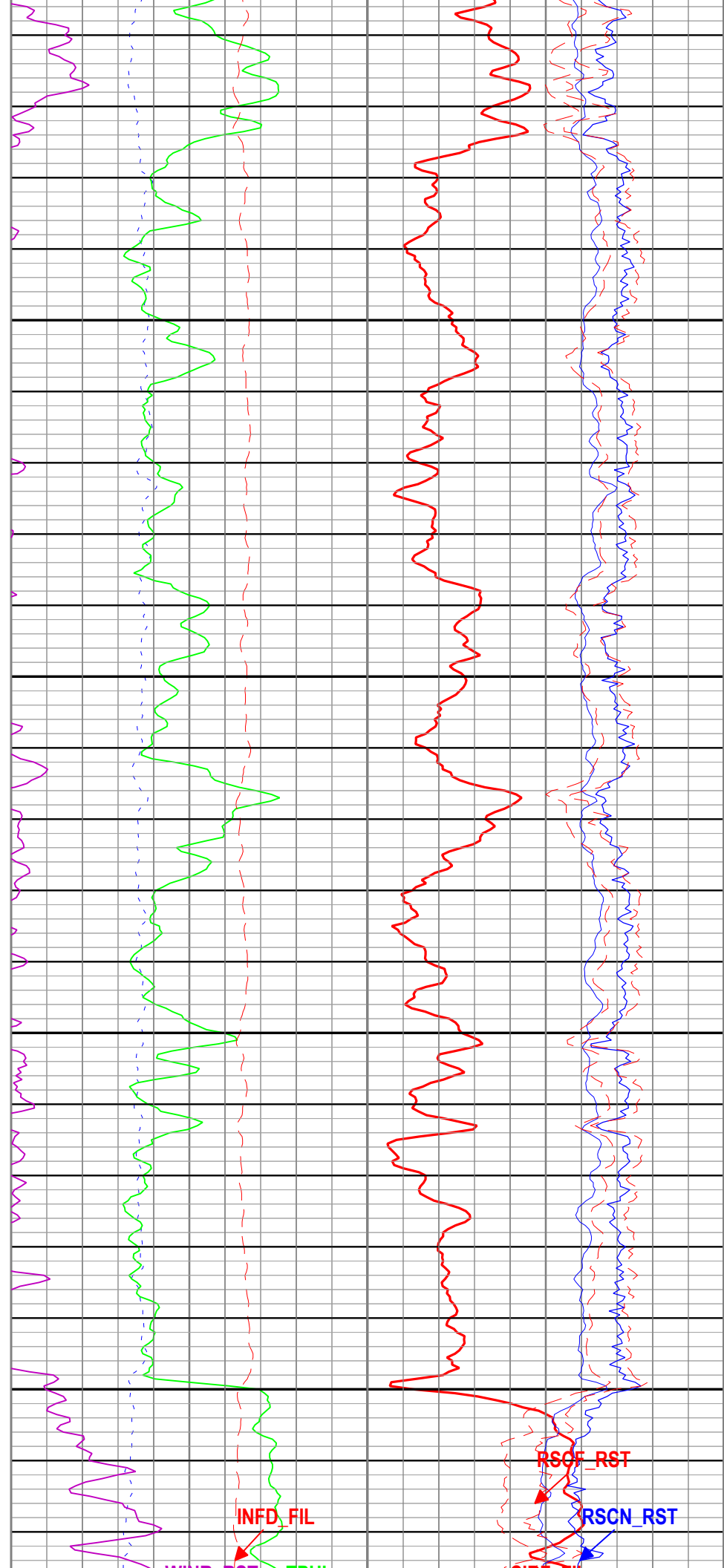
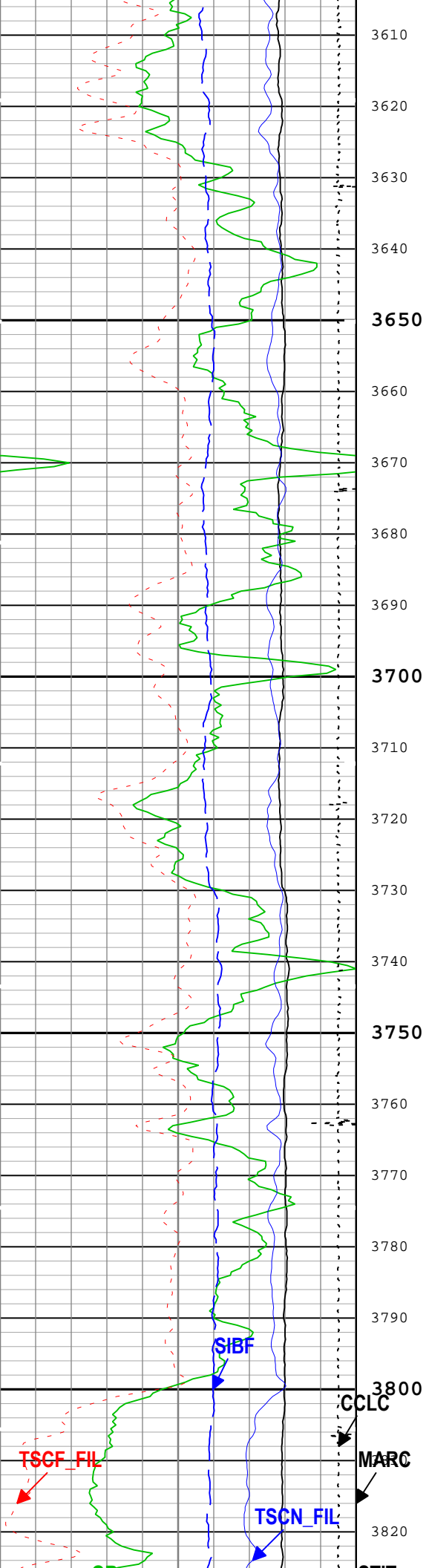
Company:Caerus Operating LLC Well:NPR 13D-10 596
Composite 1:S011

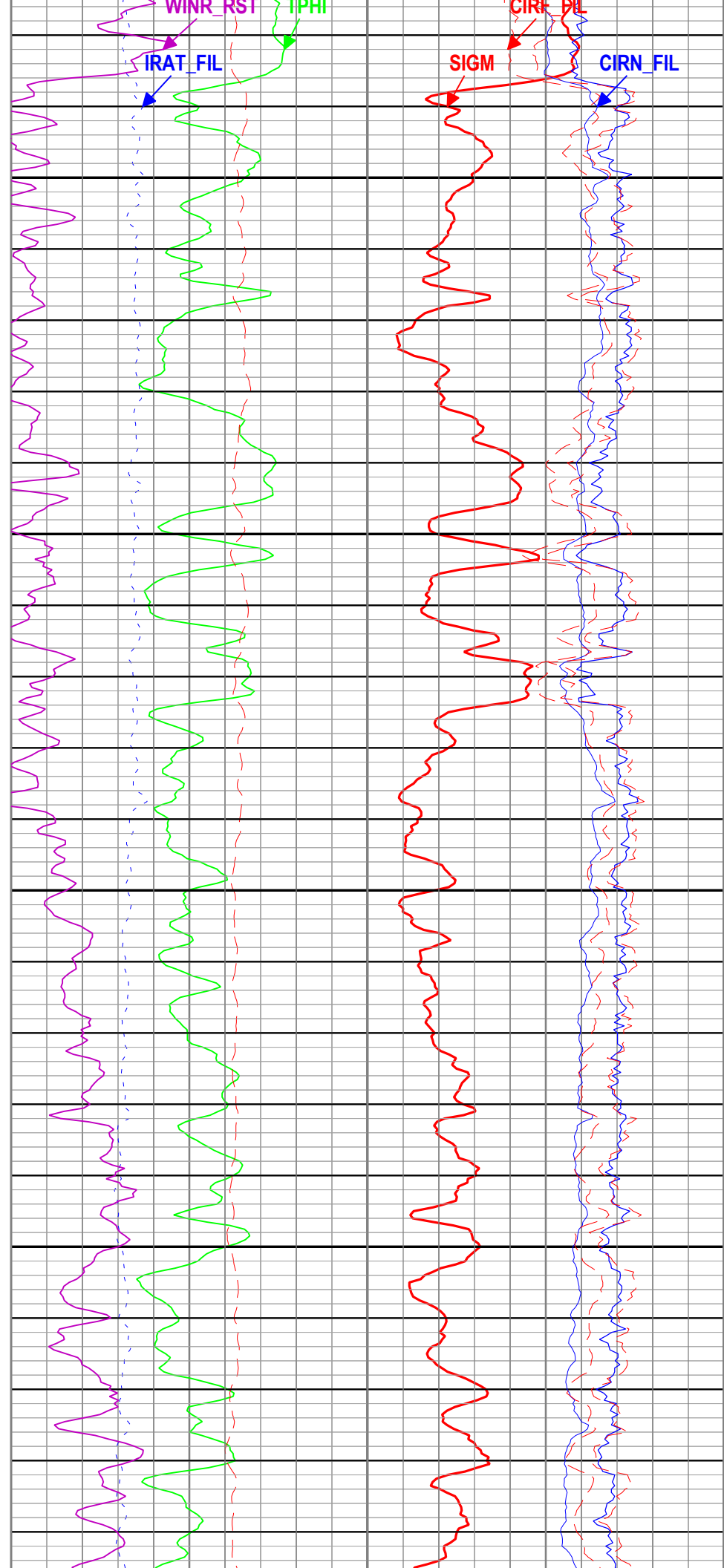
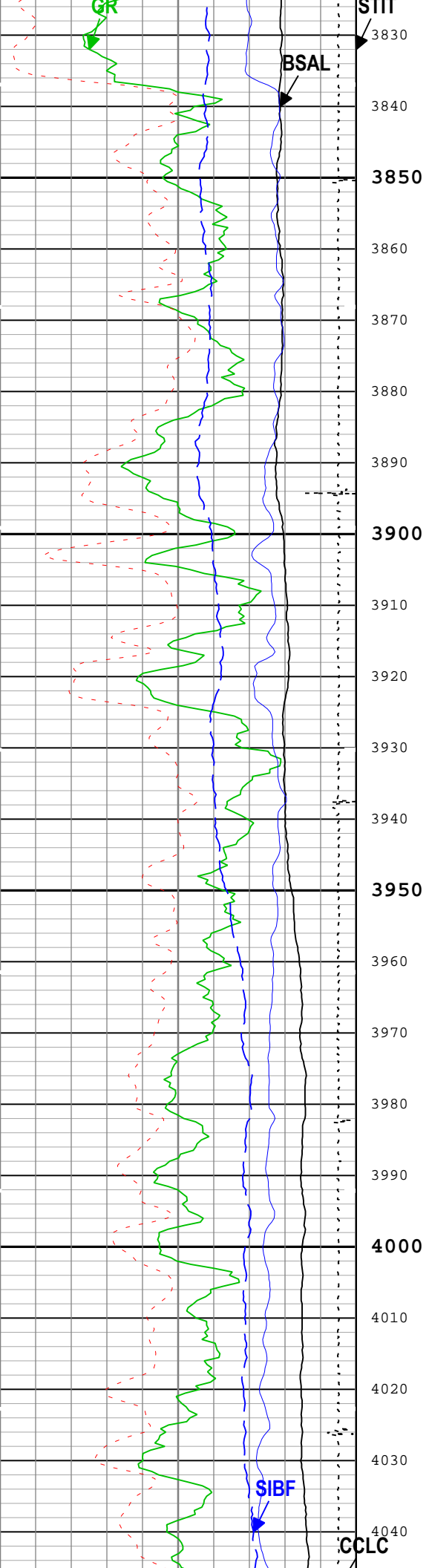
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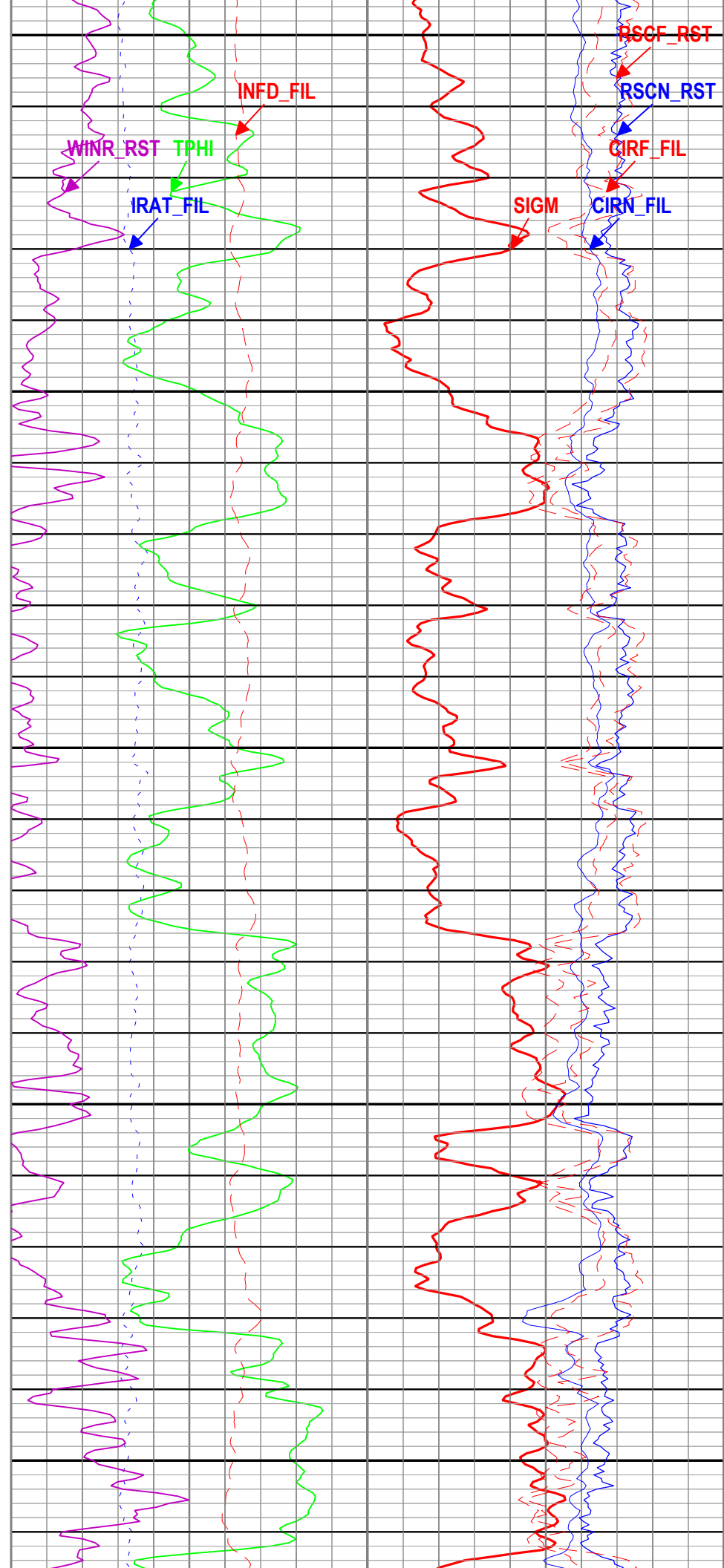
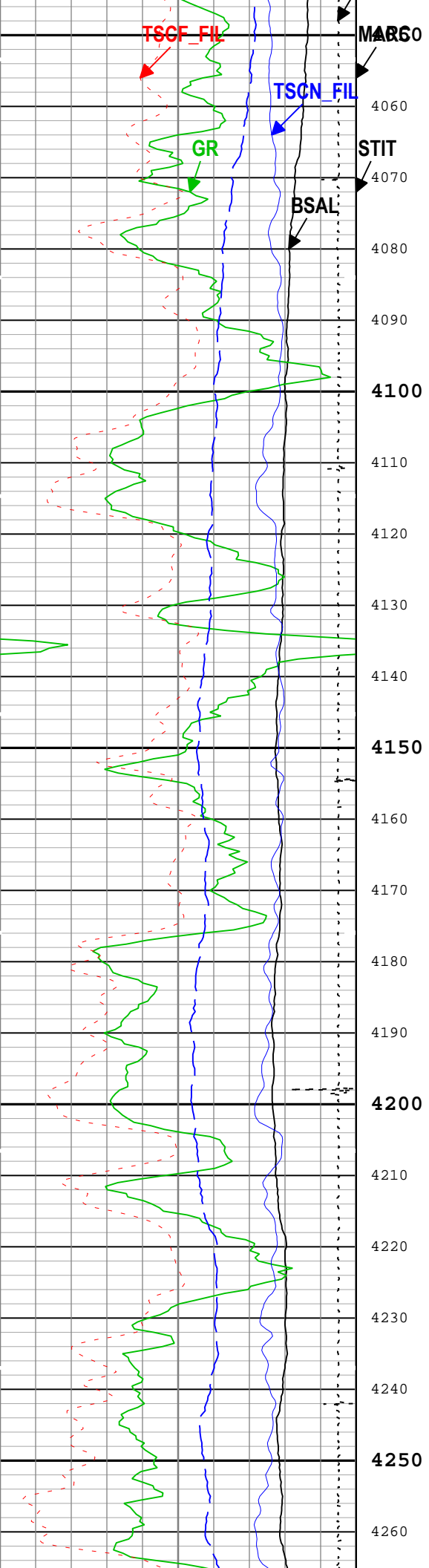
- TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)
- TIME_1900 - Time Marked every 60.00 (s)
- IHV - Integrated Hole Volume every 10.00 (ft3)
- IHV - Integrated Hole Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)
- ICV - Integrated Cement Volume every 100.00 (ft3)

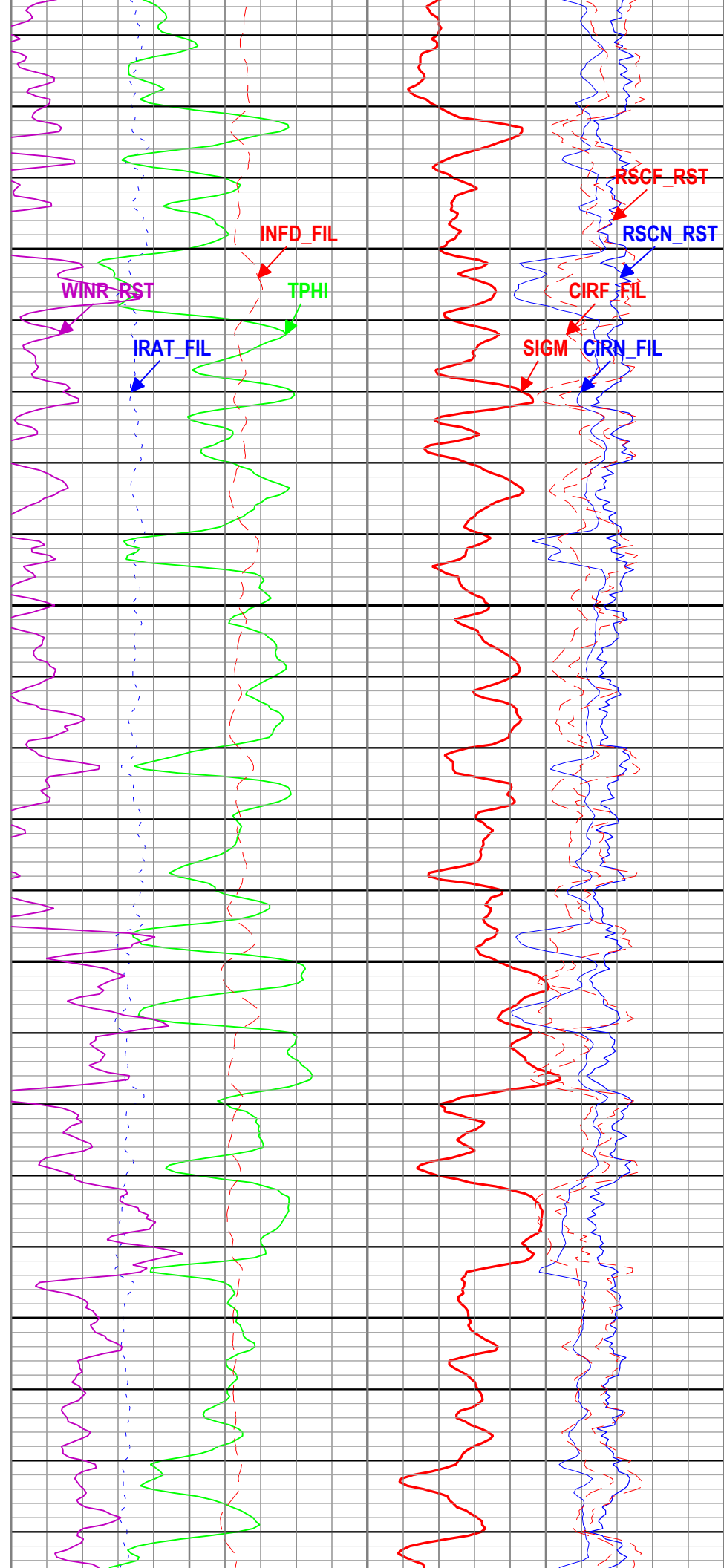
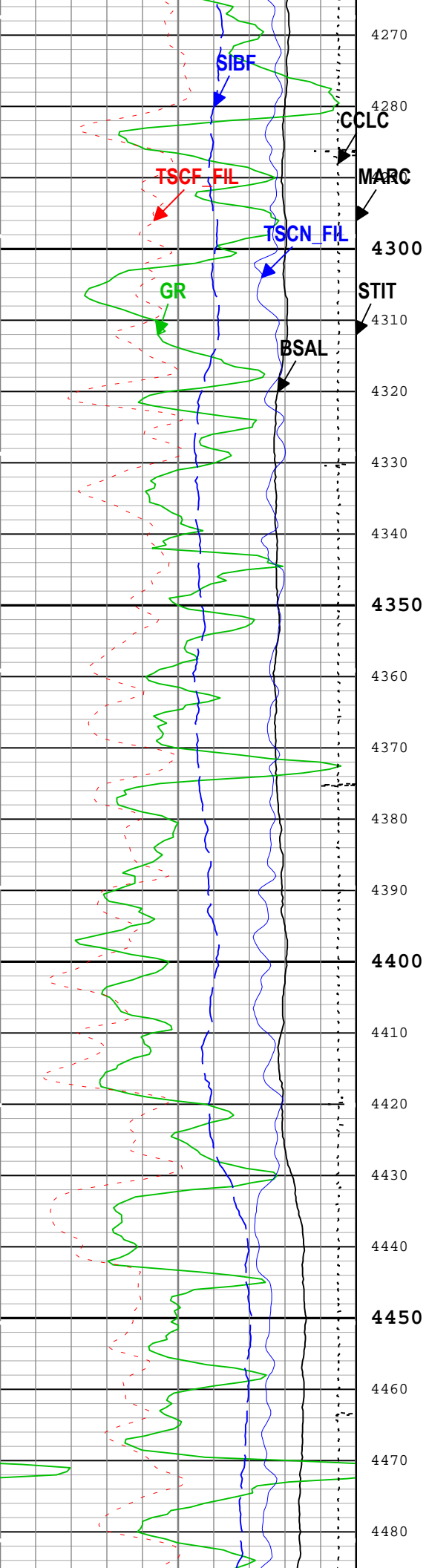
Borehole Salinity (BSAL) RST-C[1]	Stuck Tool Indicator, Total (STIT)	Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C[1]
450 ppk -50	0 ft 50	2.5 0
Gamma Ray (GR) PSTP-B[1]	Cable Drag From STIA to STIT	Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C[1]
0 gAPI 150	0.75 0	5 0
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C[1]	Tool_Tot. Drag From D3T to STIT	Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C[1]
30000 1/s 0	0.6 ft3/ft3 0	45 0
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C[1]	Minitron Arc Count	Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C[1]
12000 1/s 0	10000 1/s 0	45 0
CCL Computed Amplitude (CCLC) PSTP-B[1]		Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C[1]

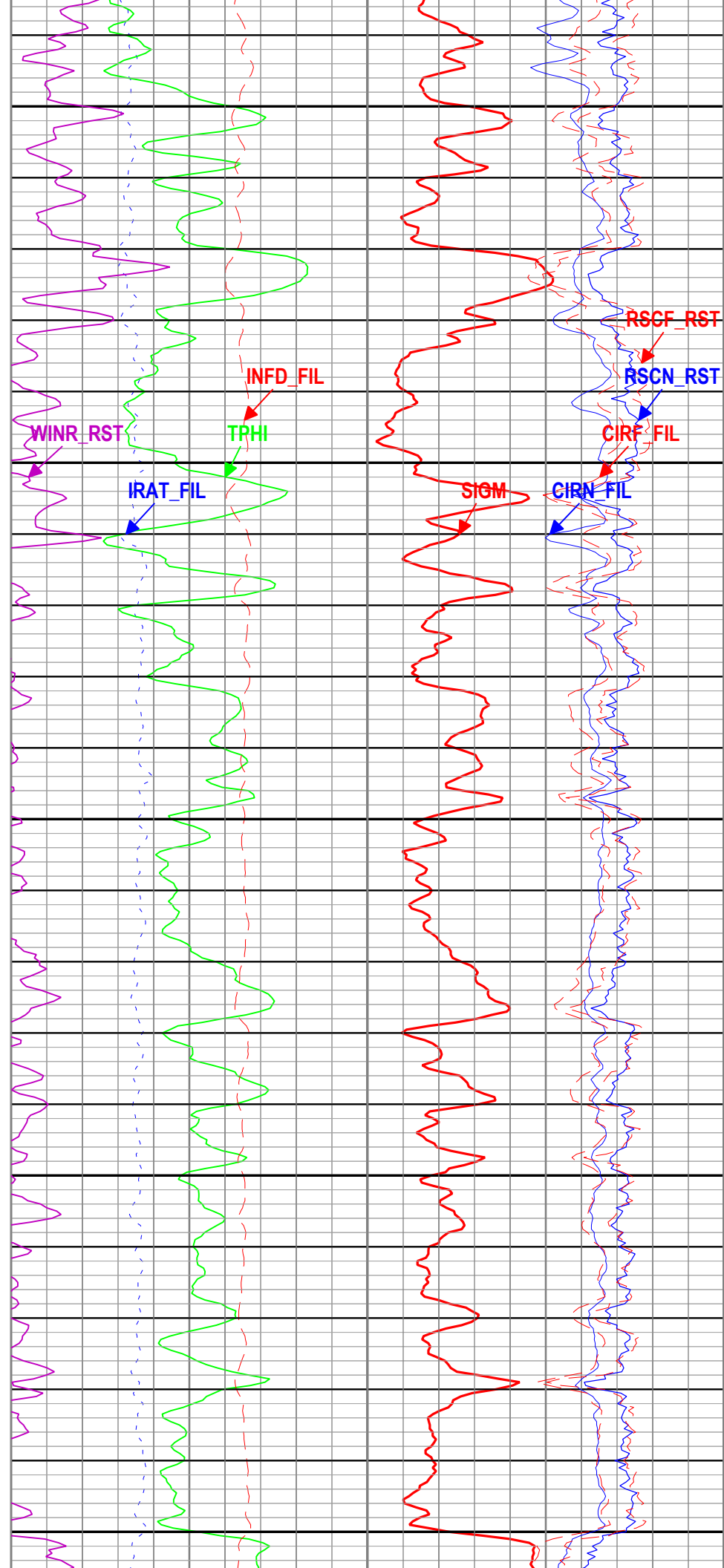
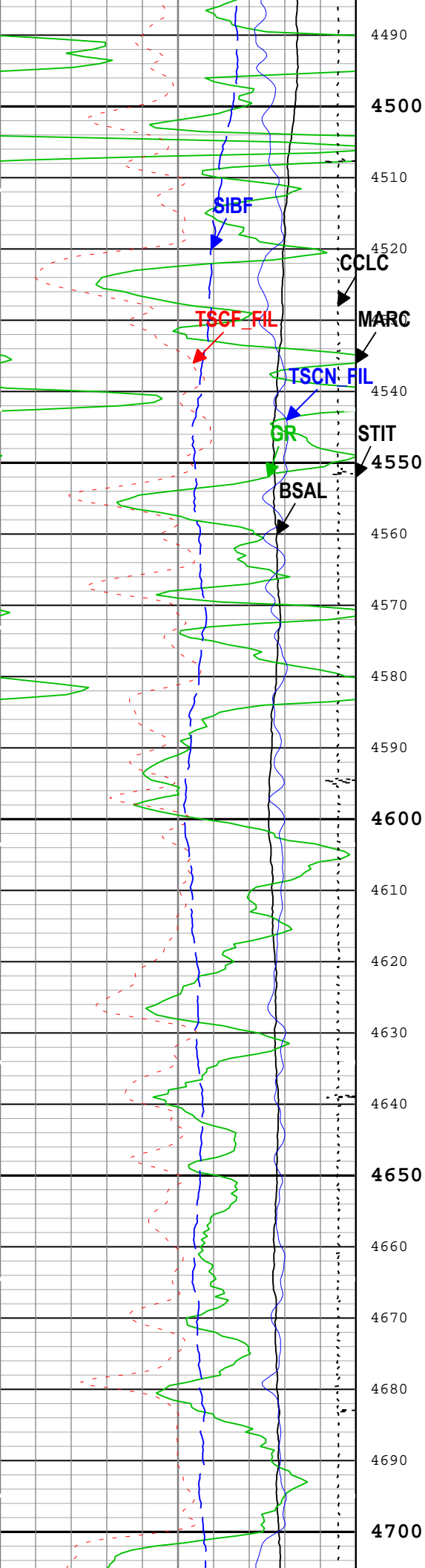


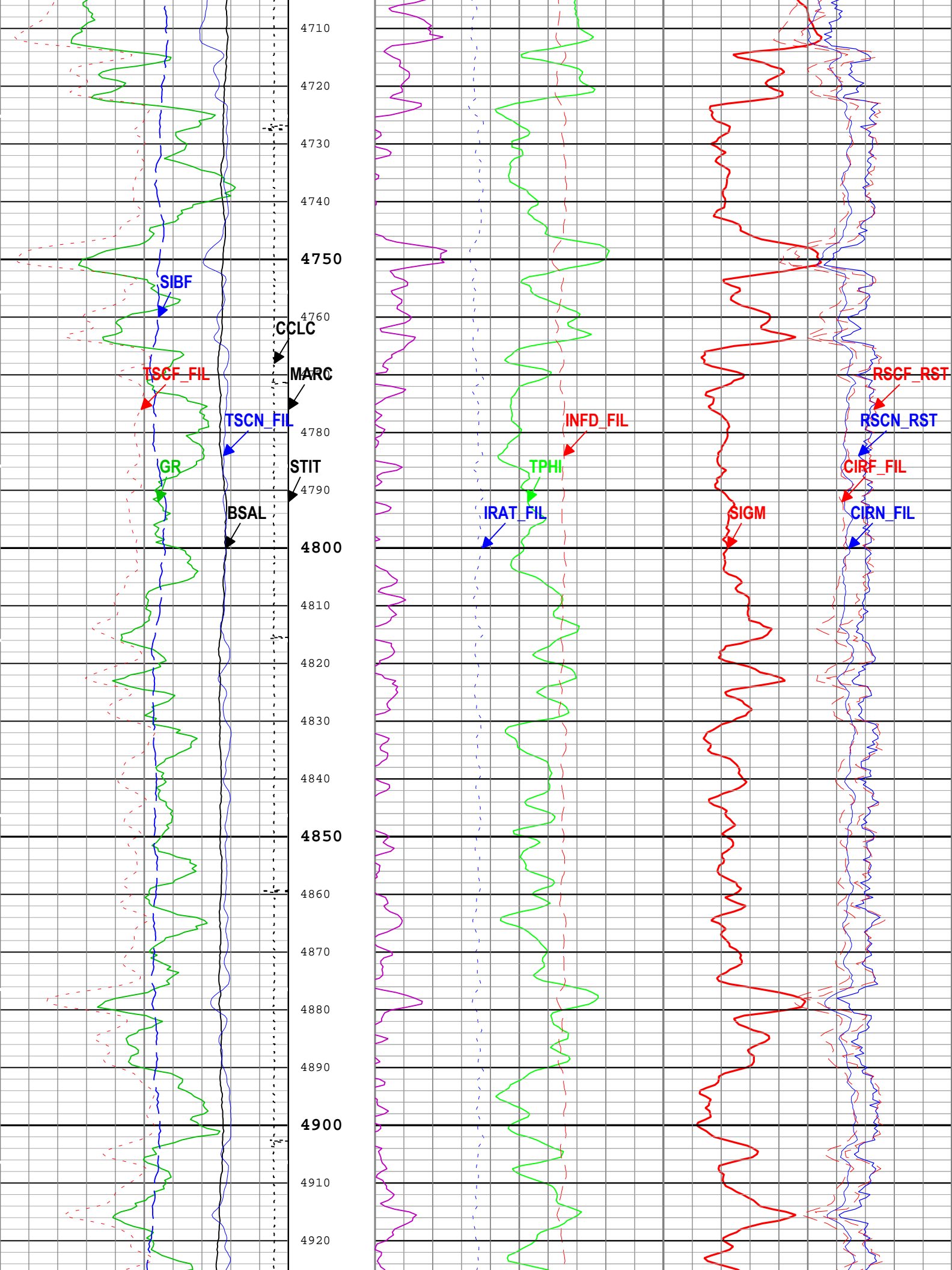


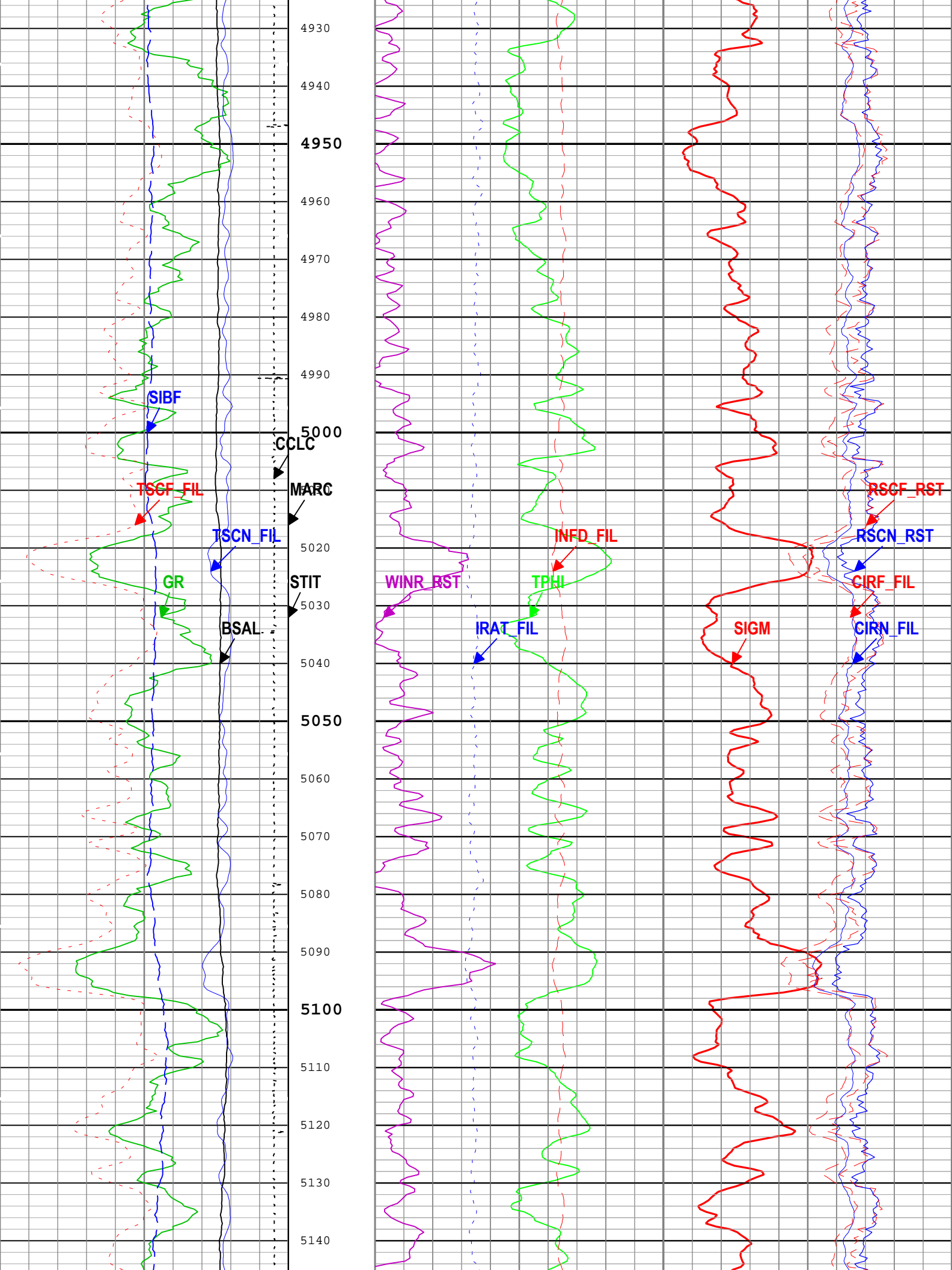


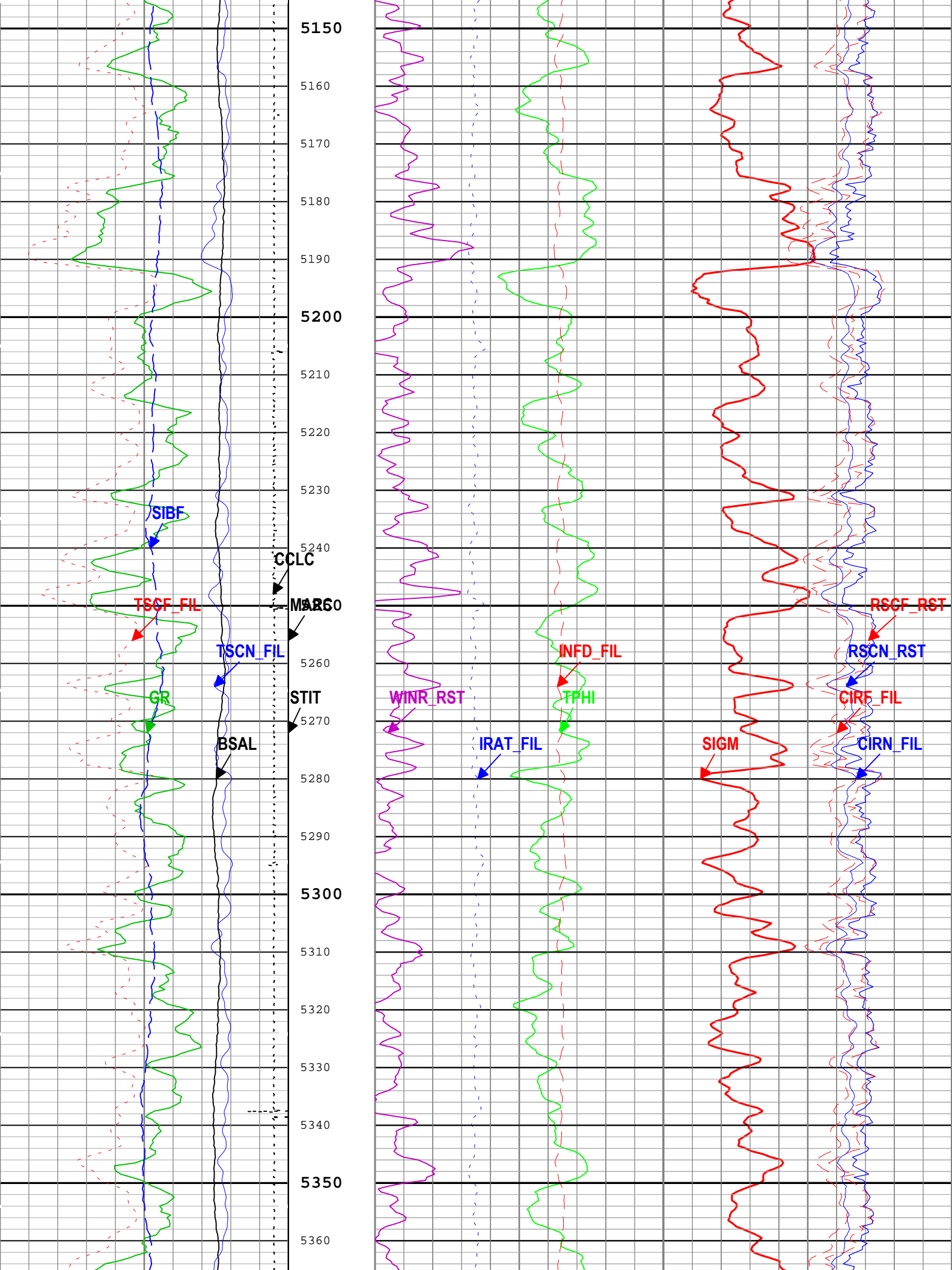


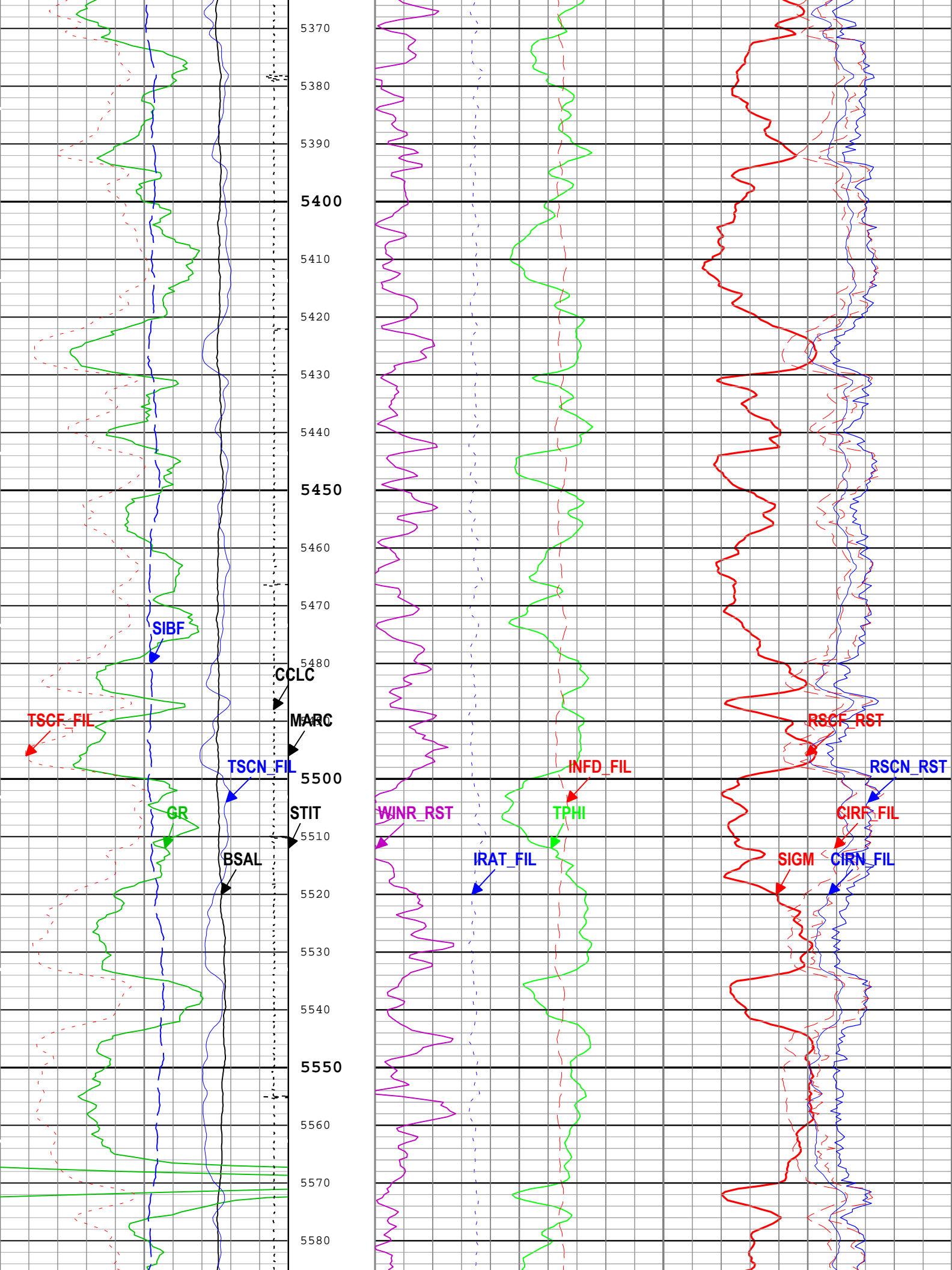


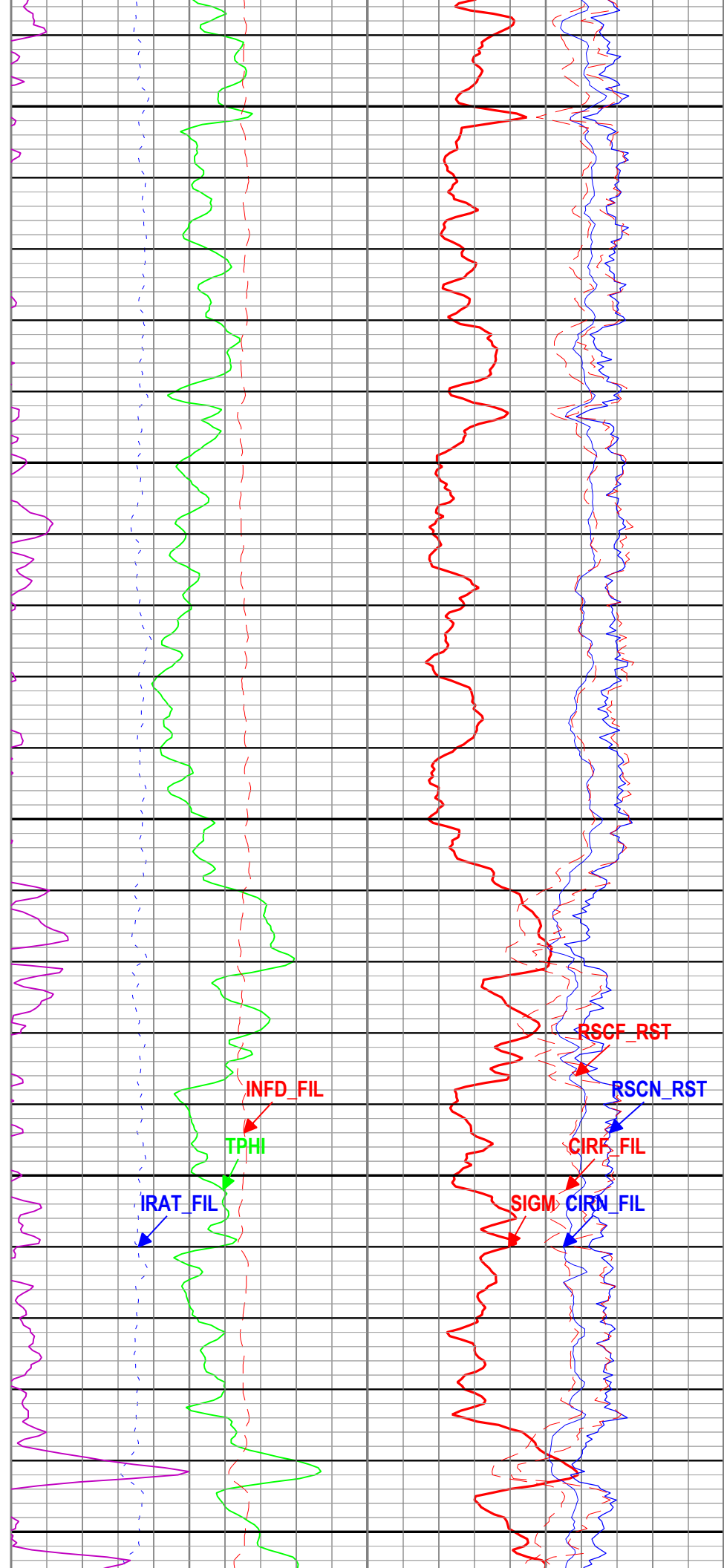
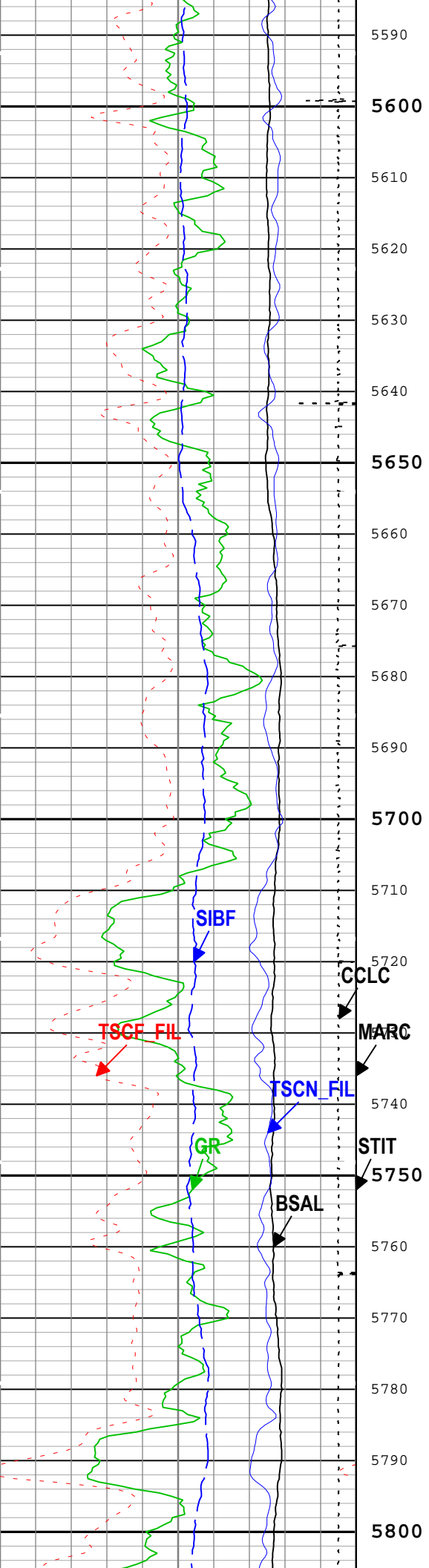


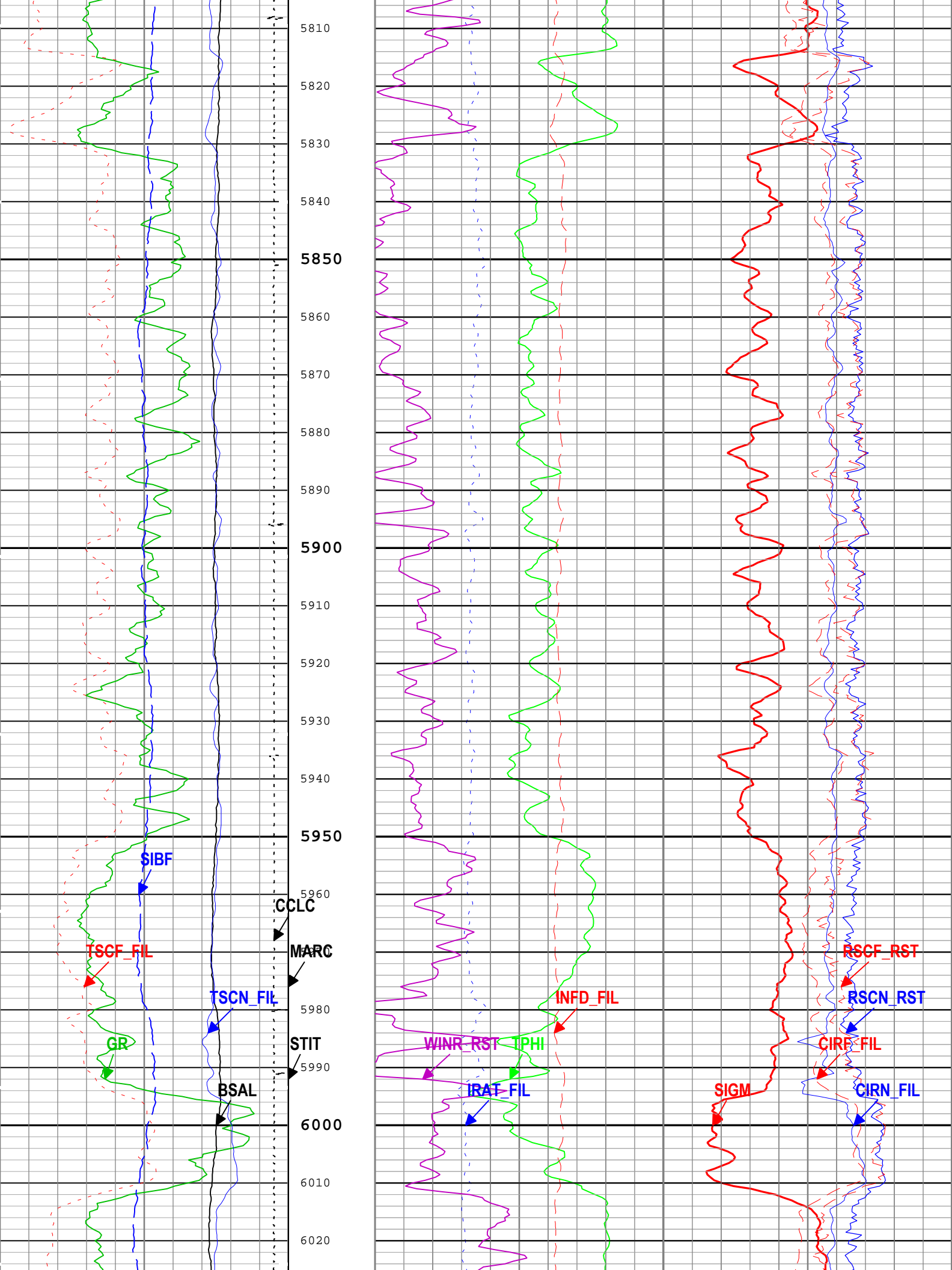


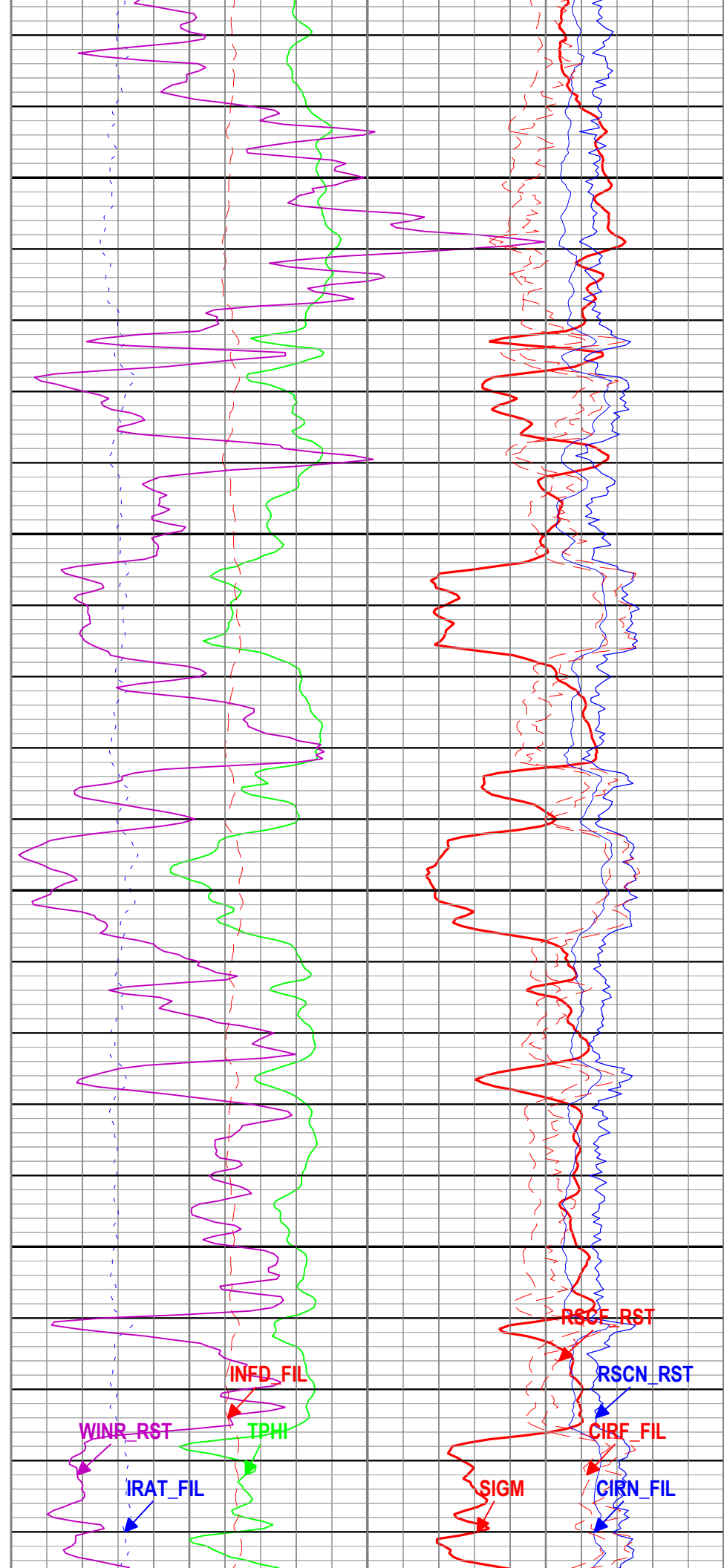
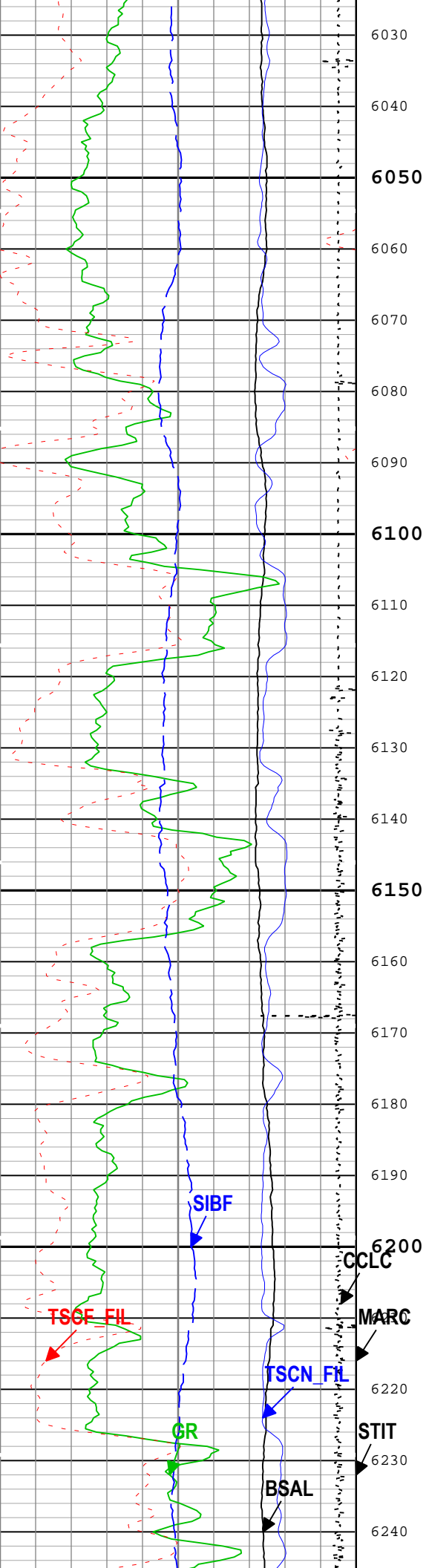


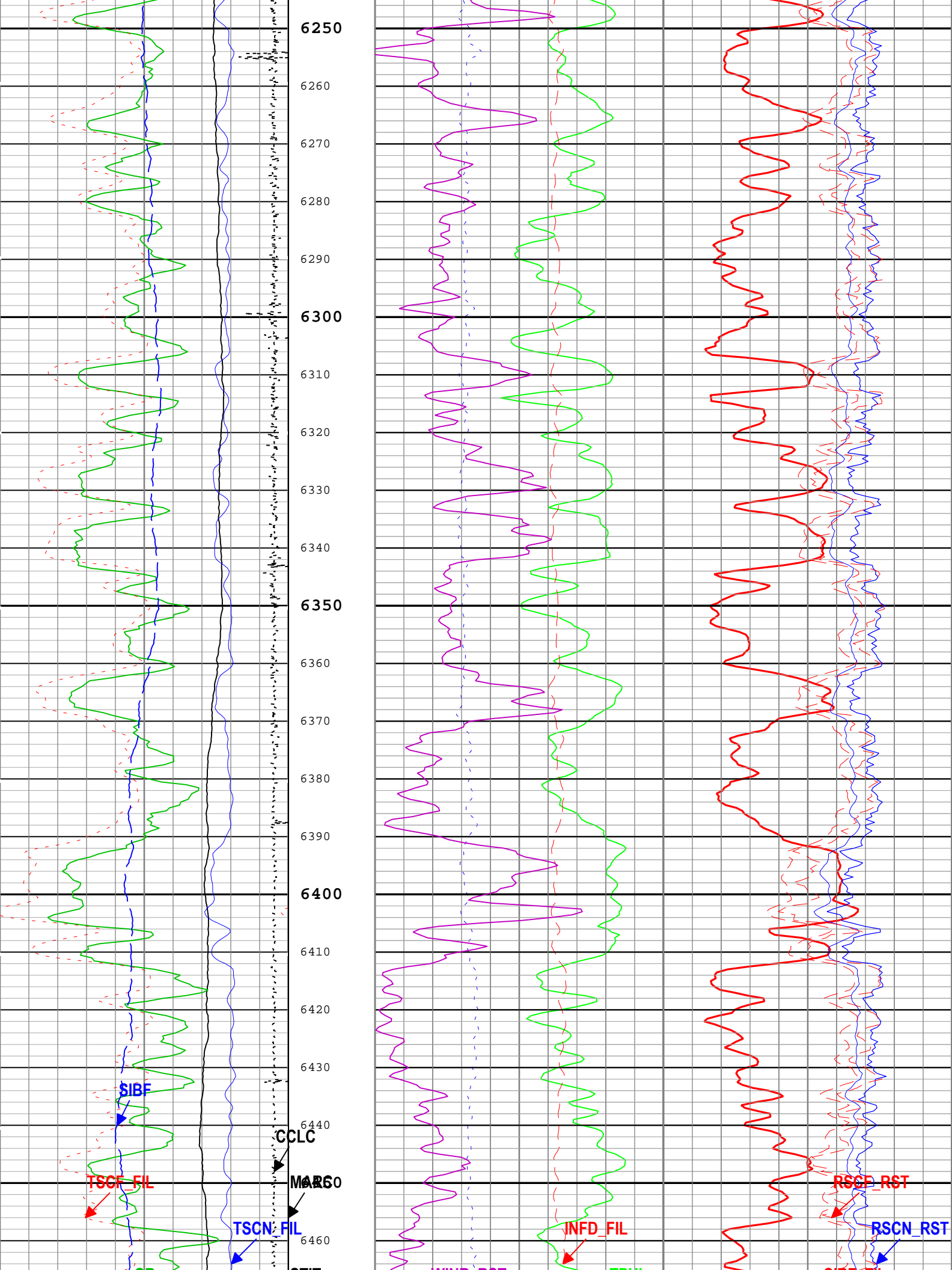


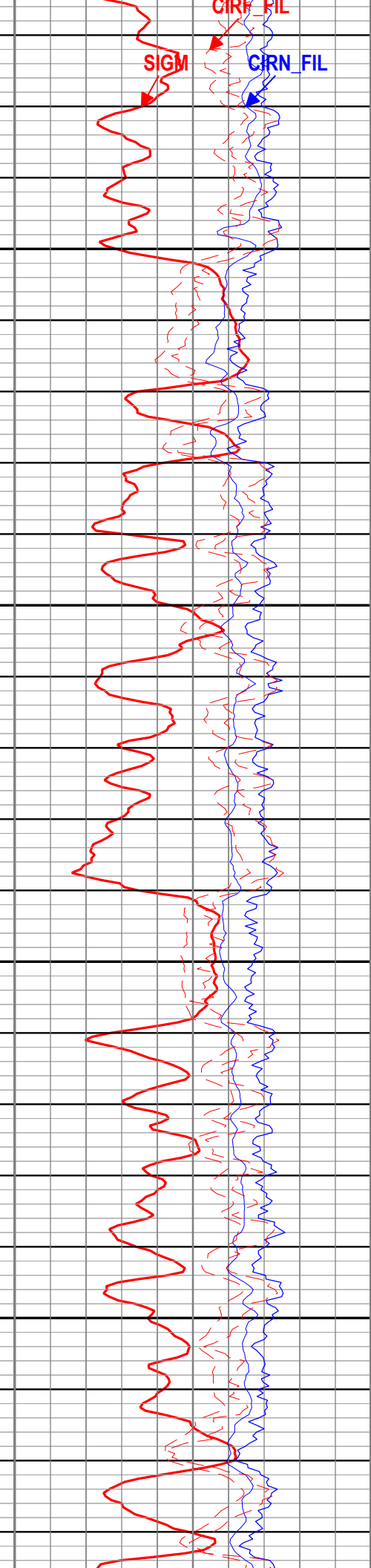
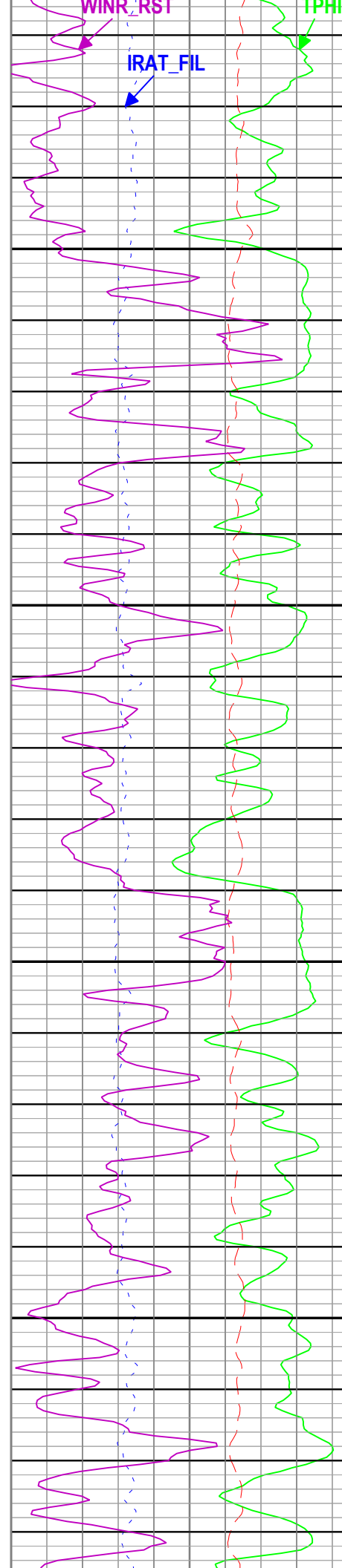
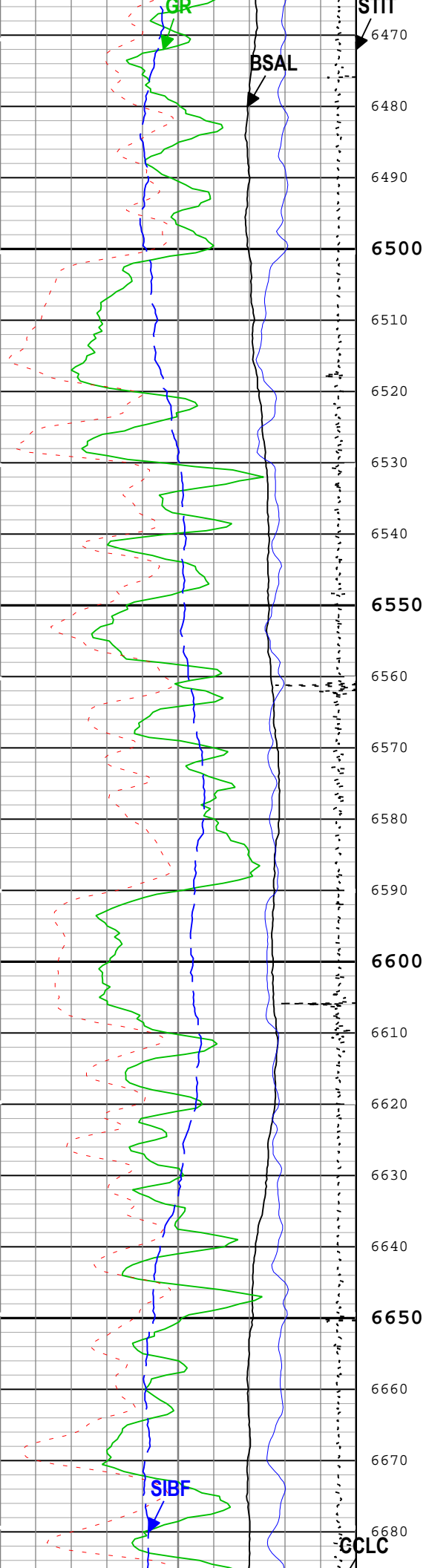


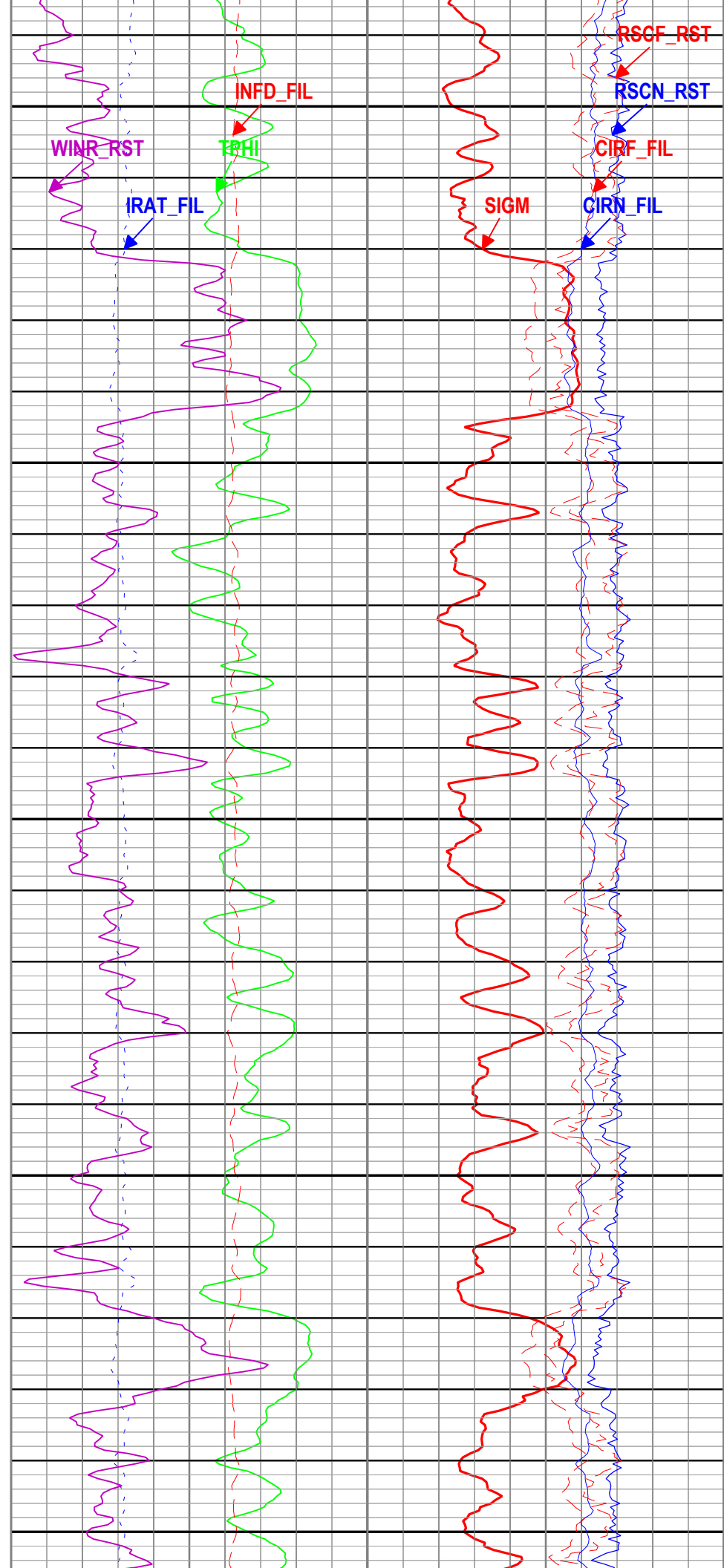
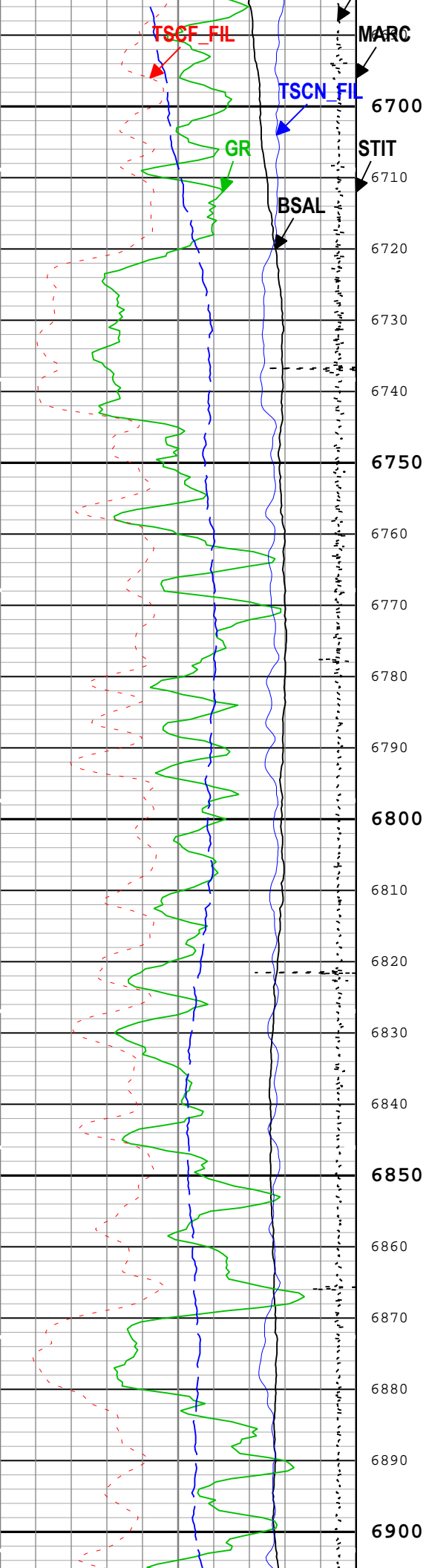


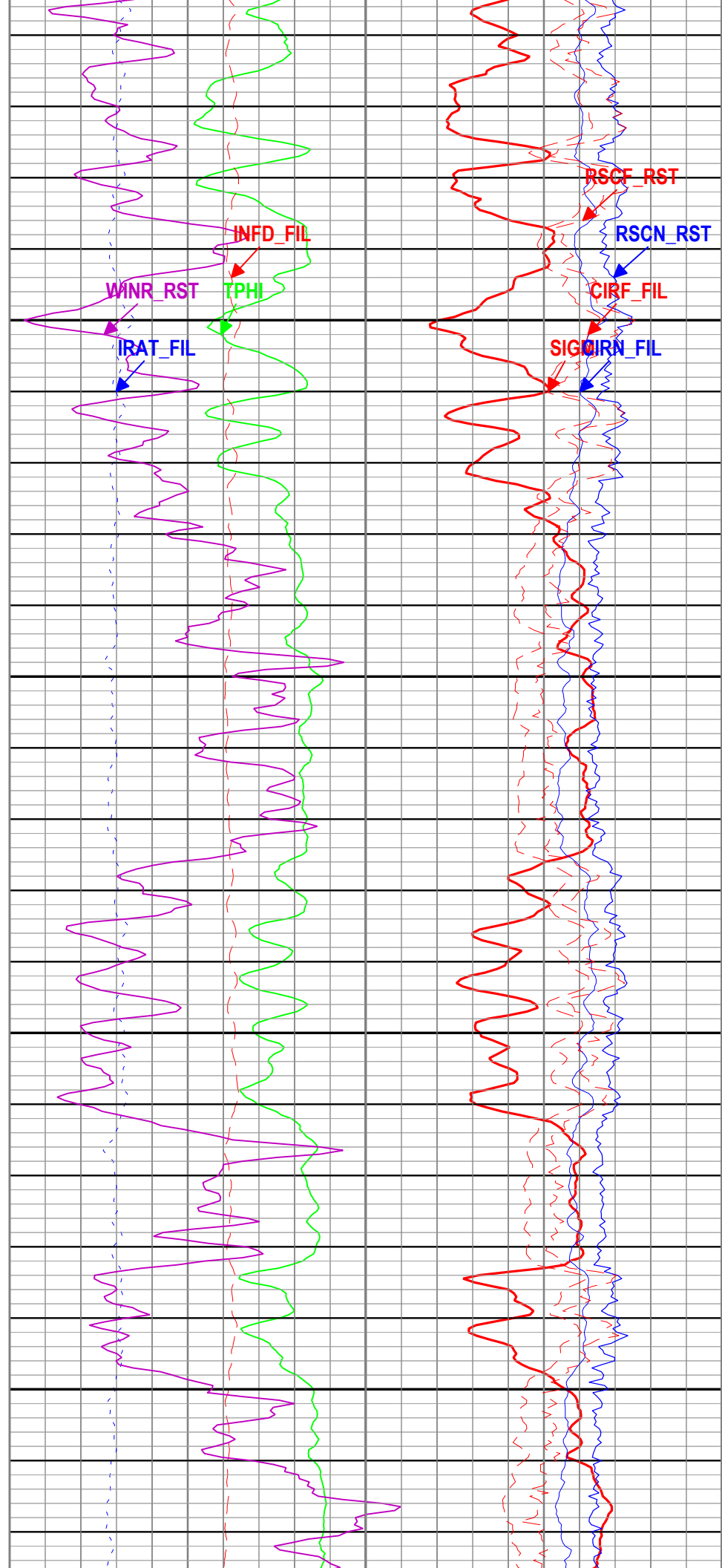
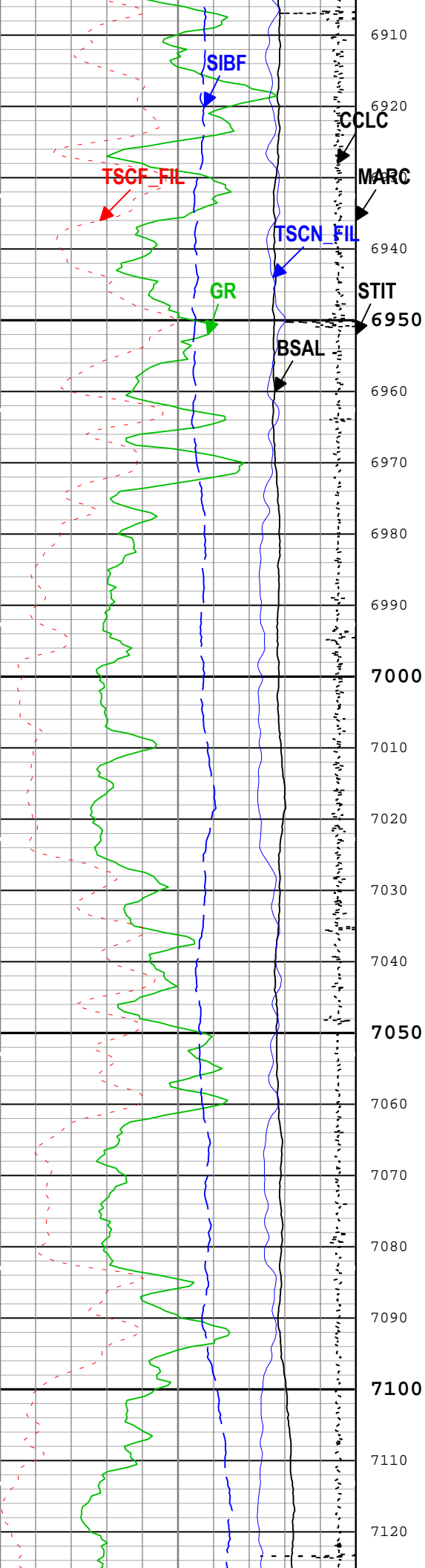


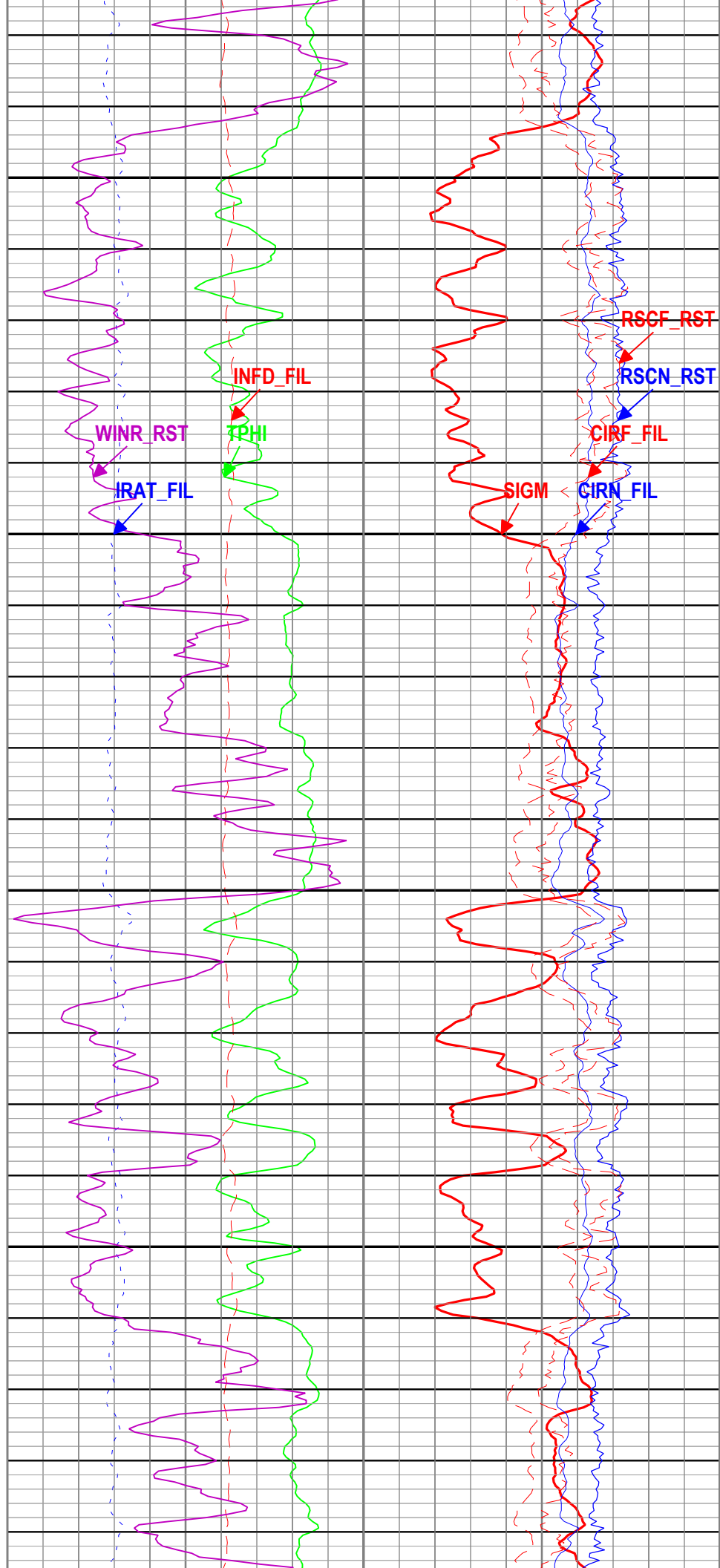
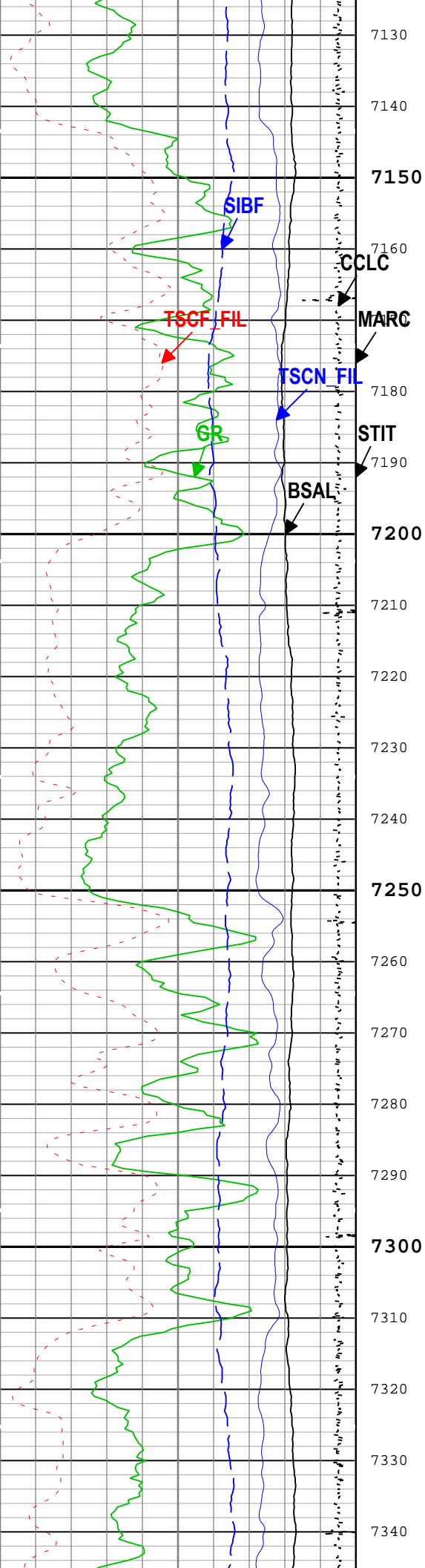


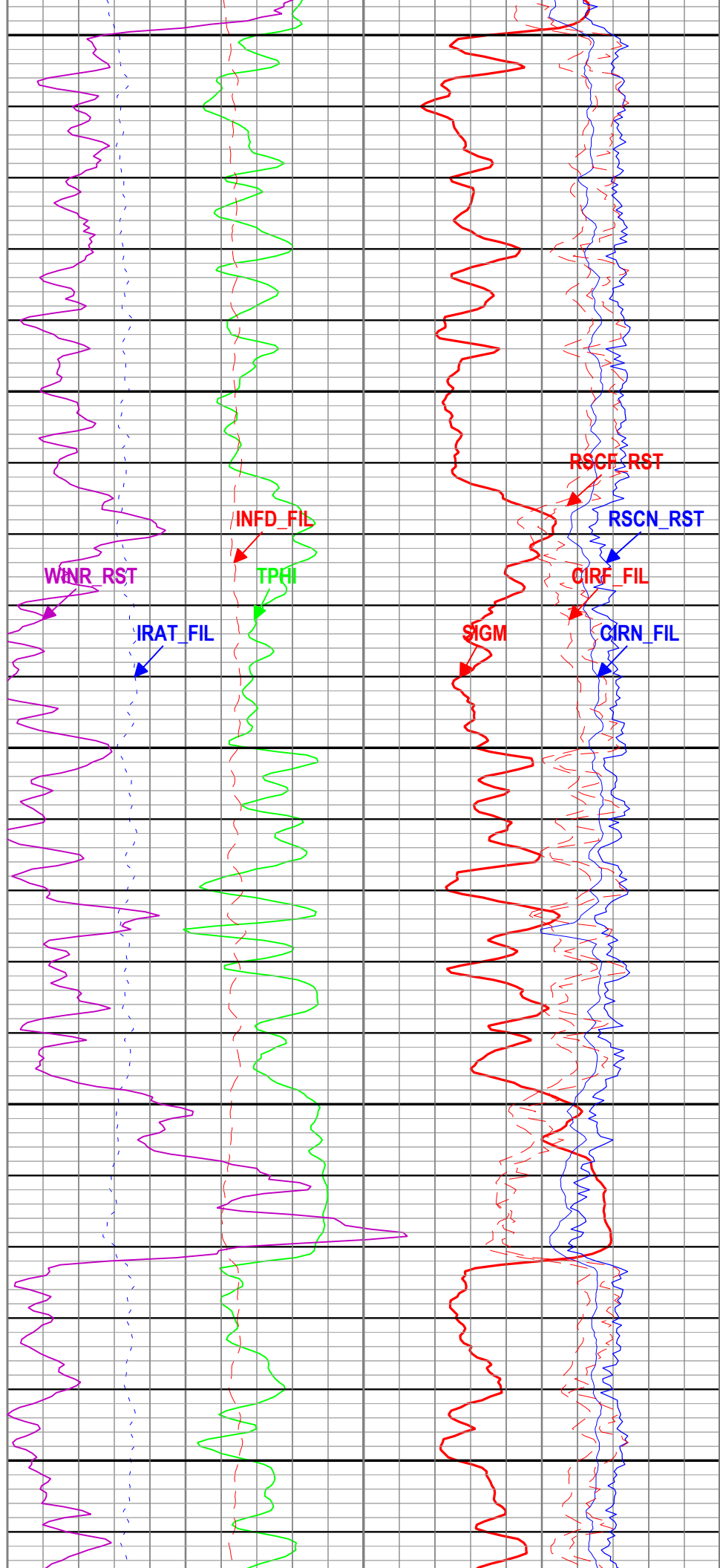
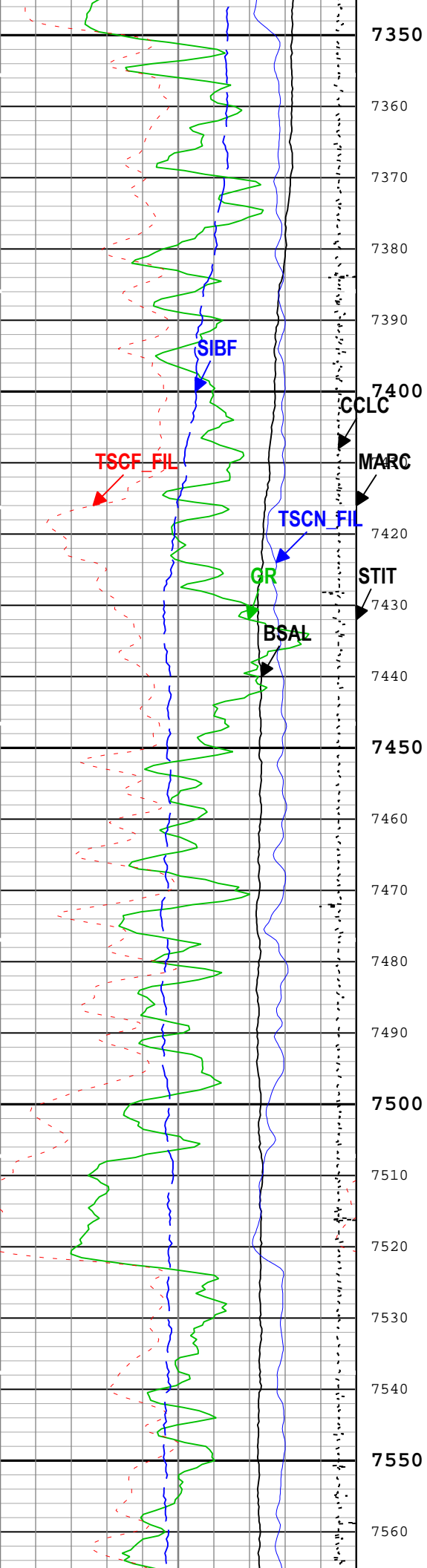


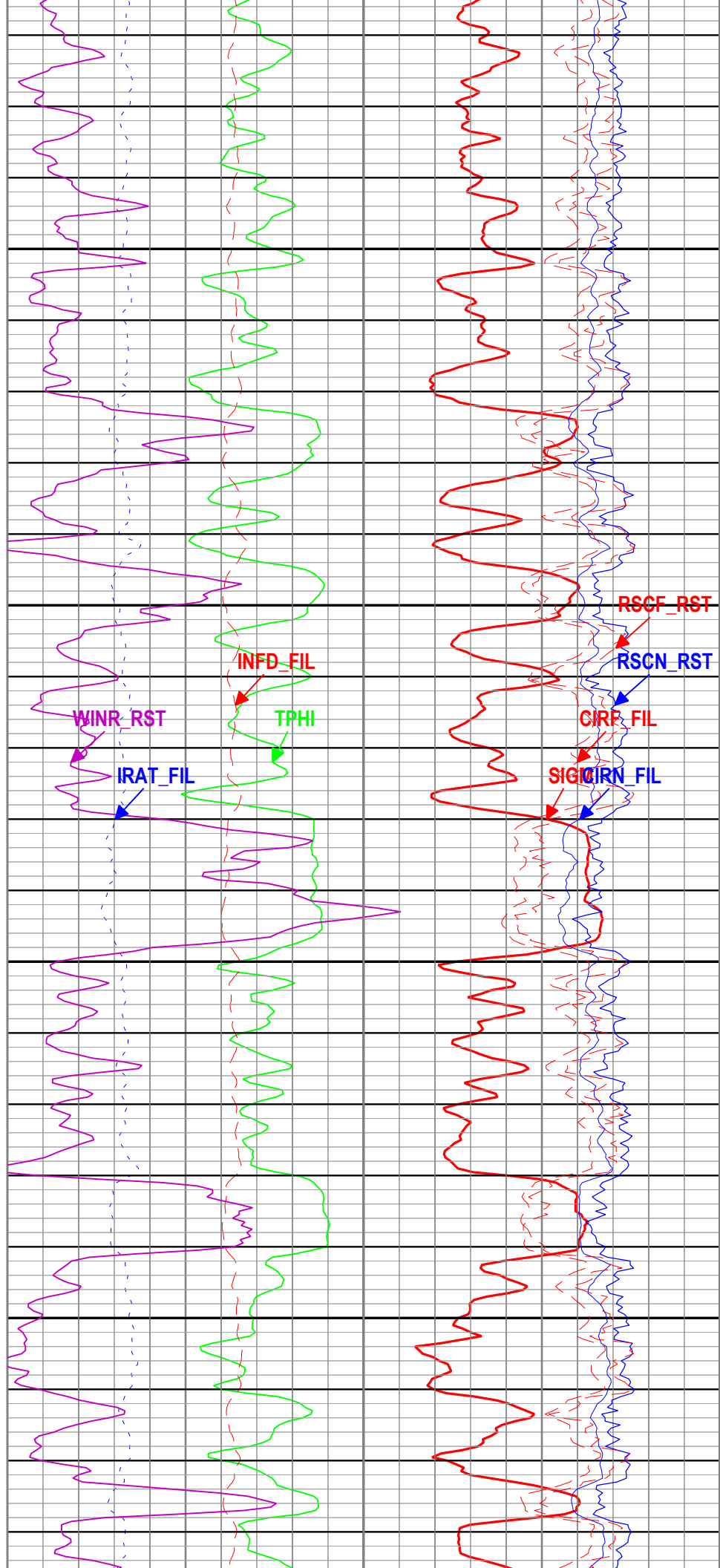
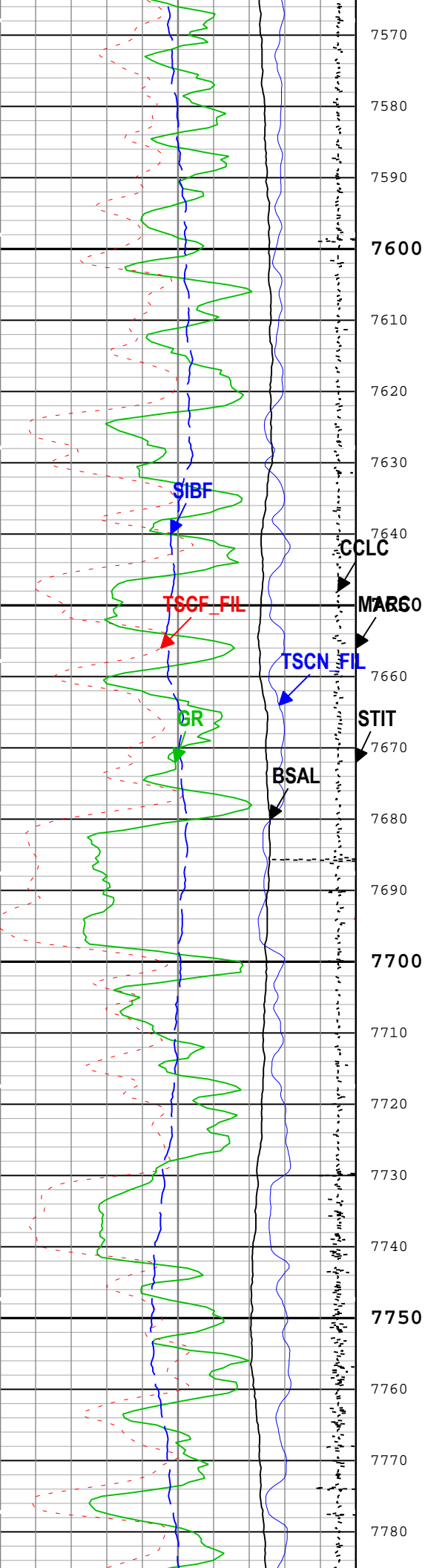


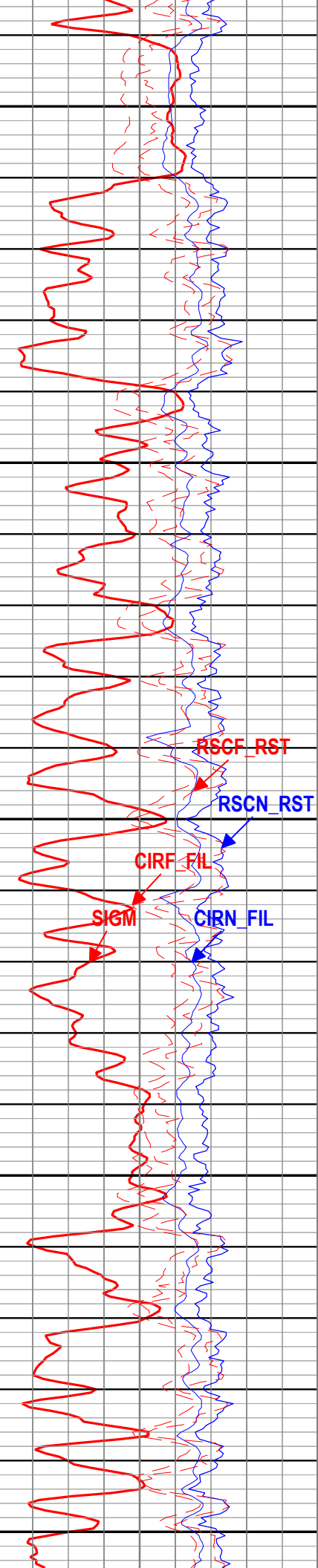
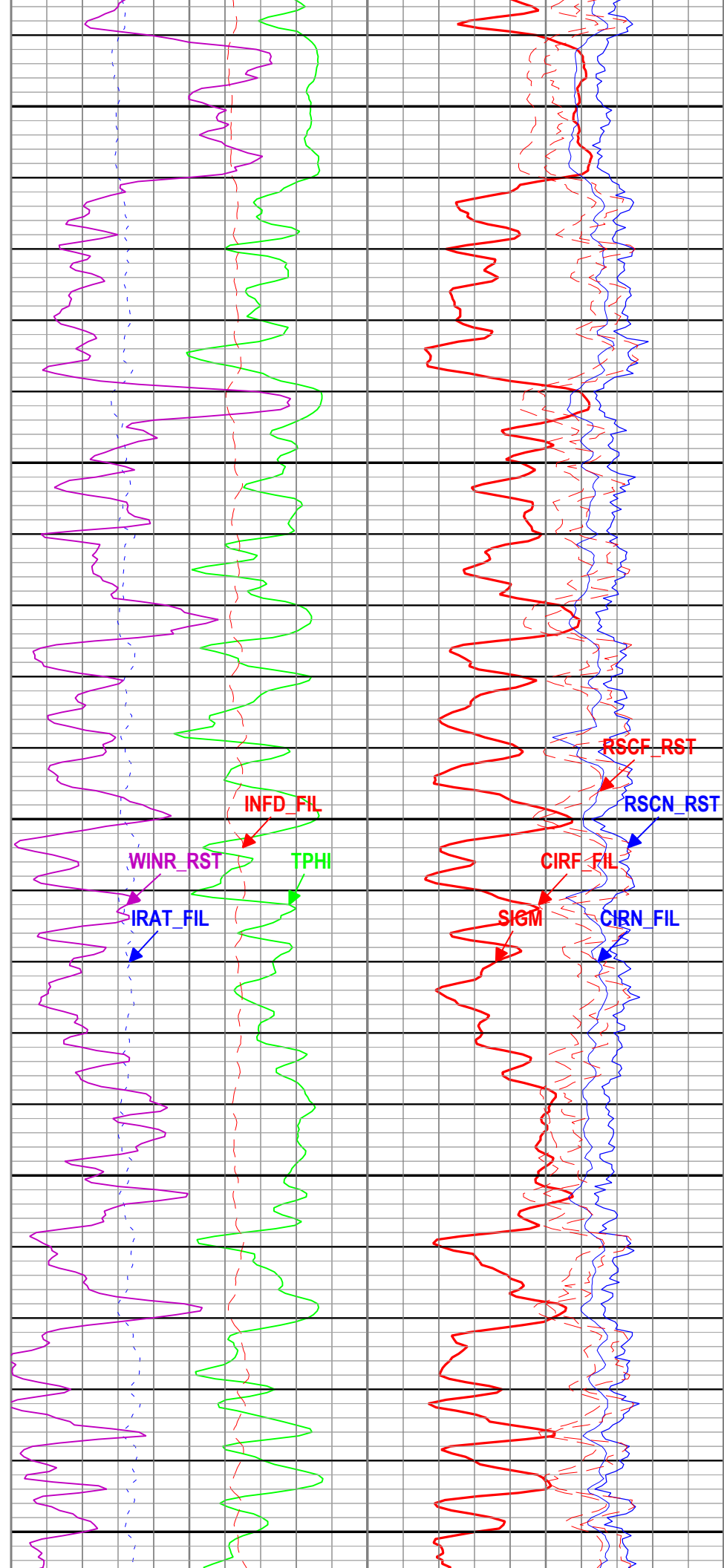
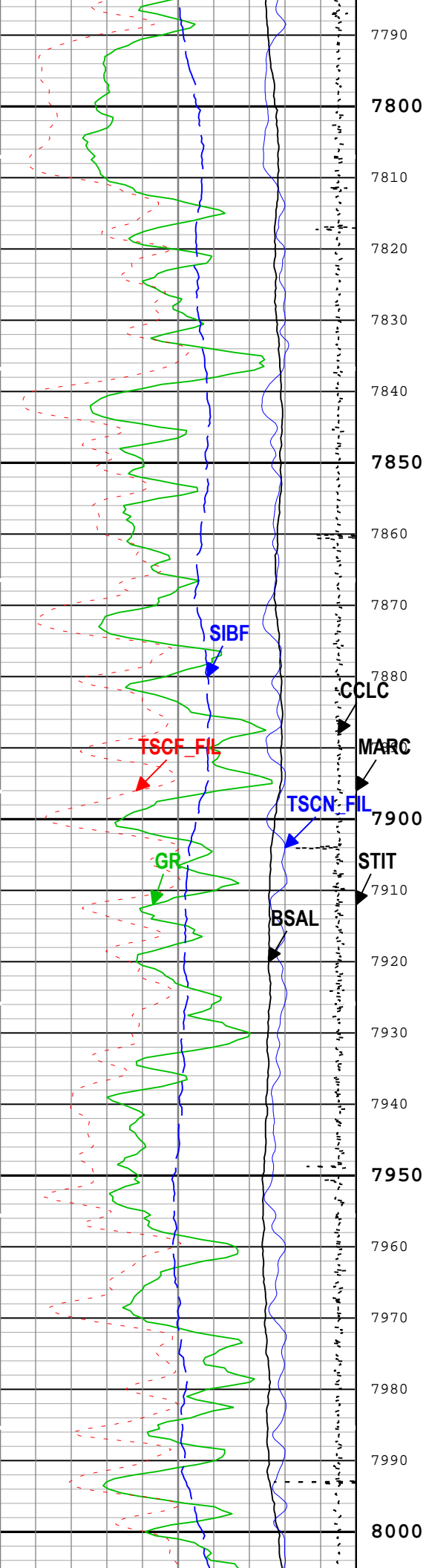


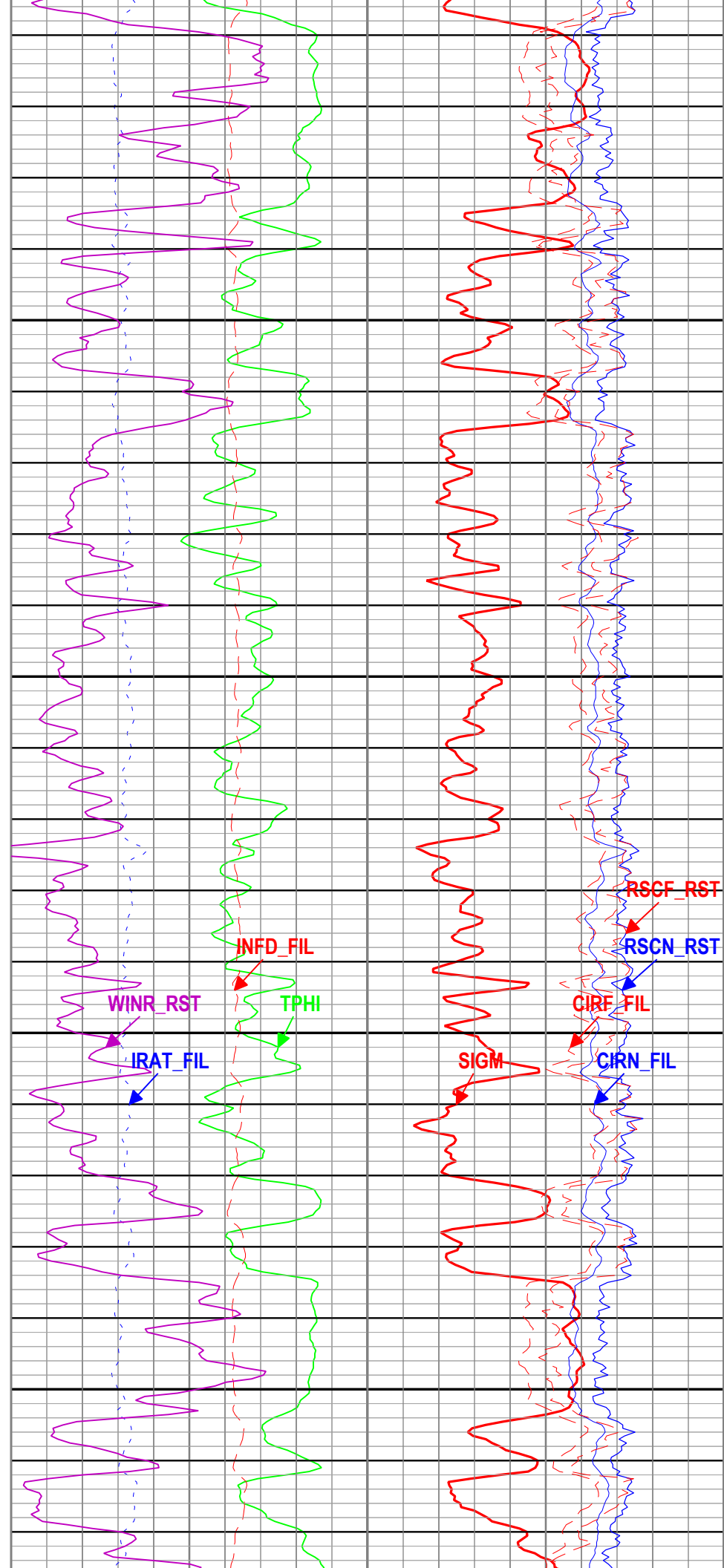
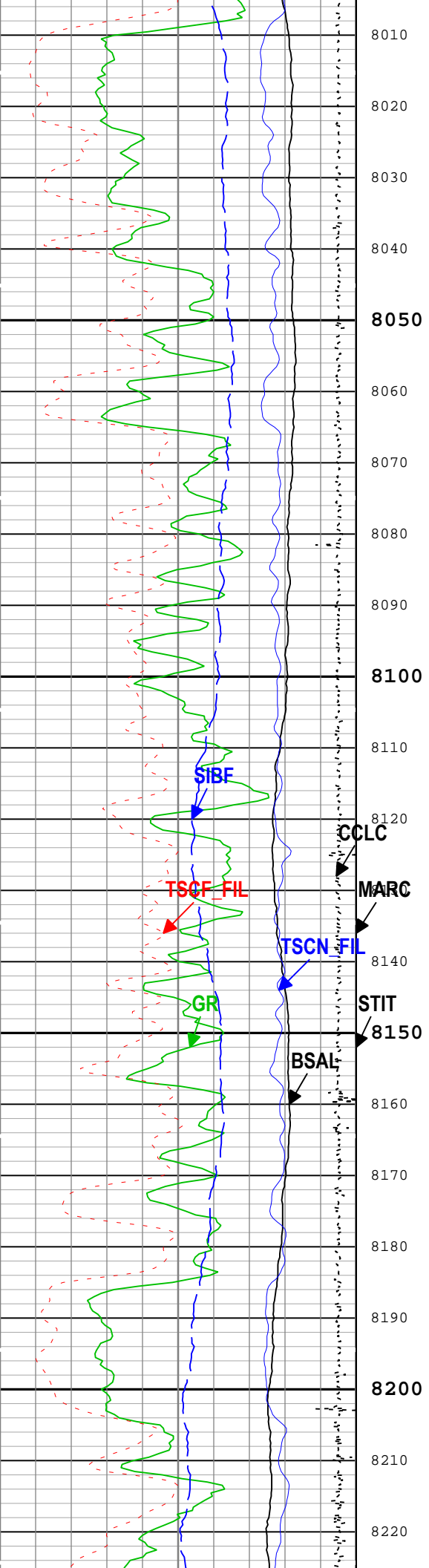


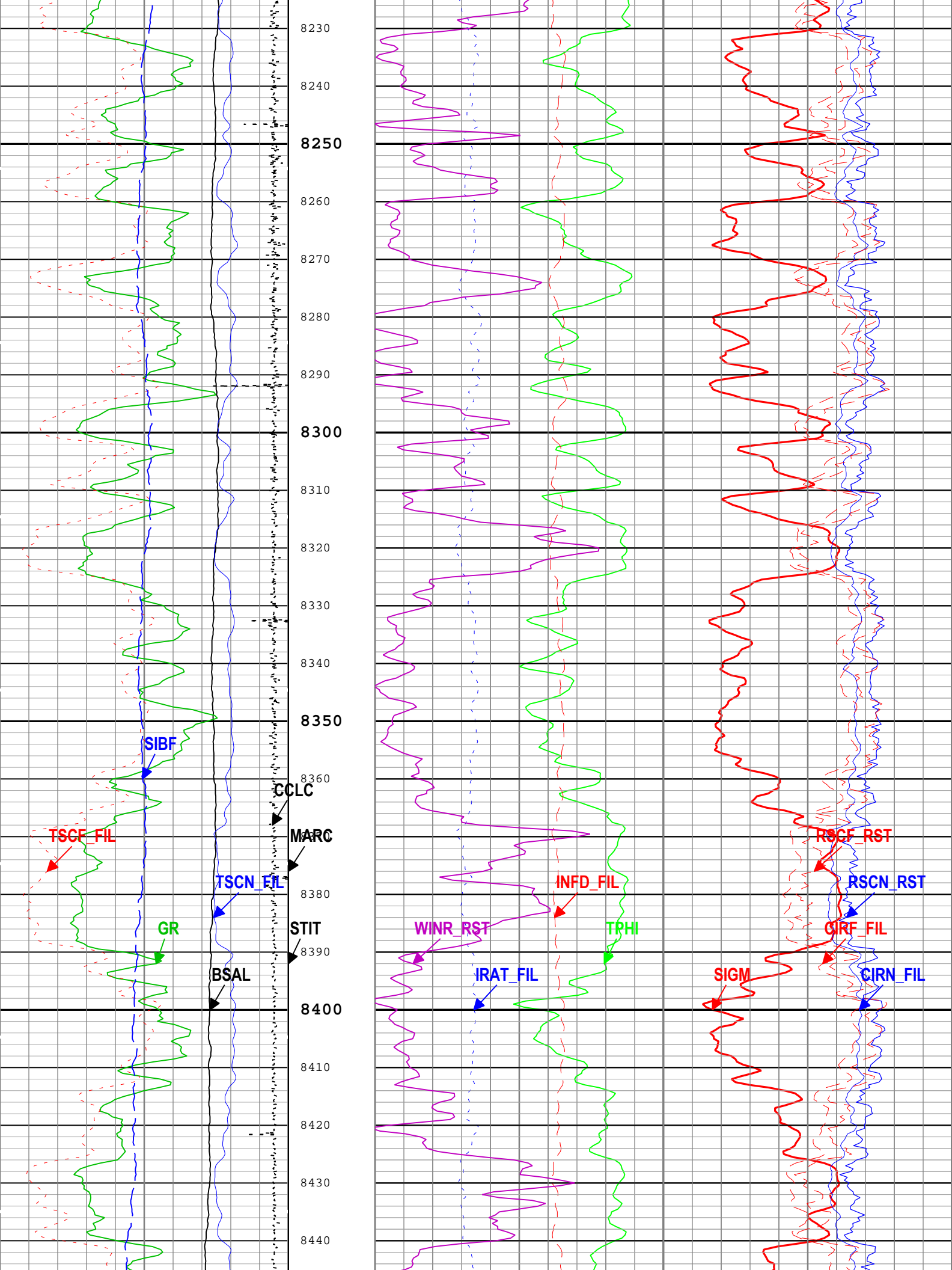


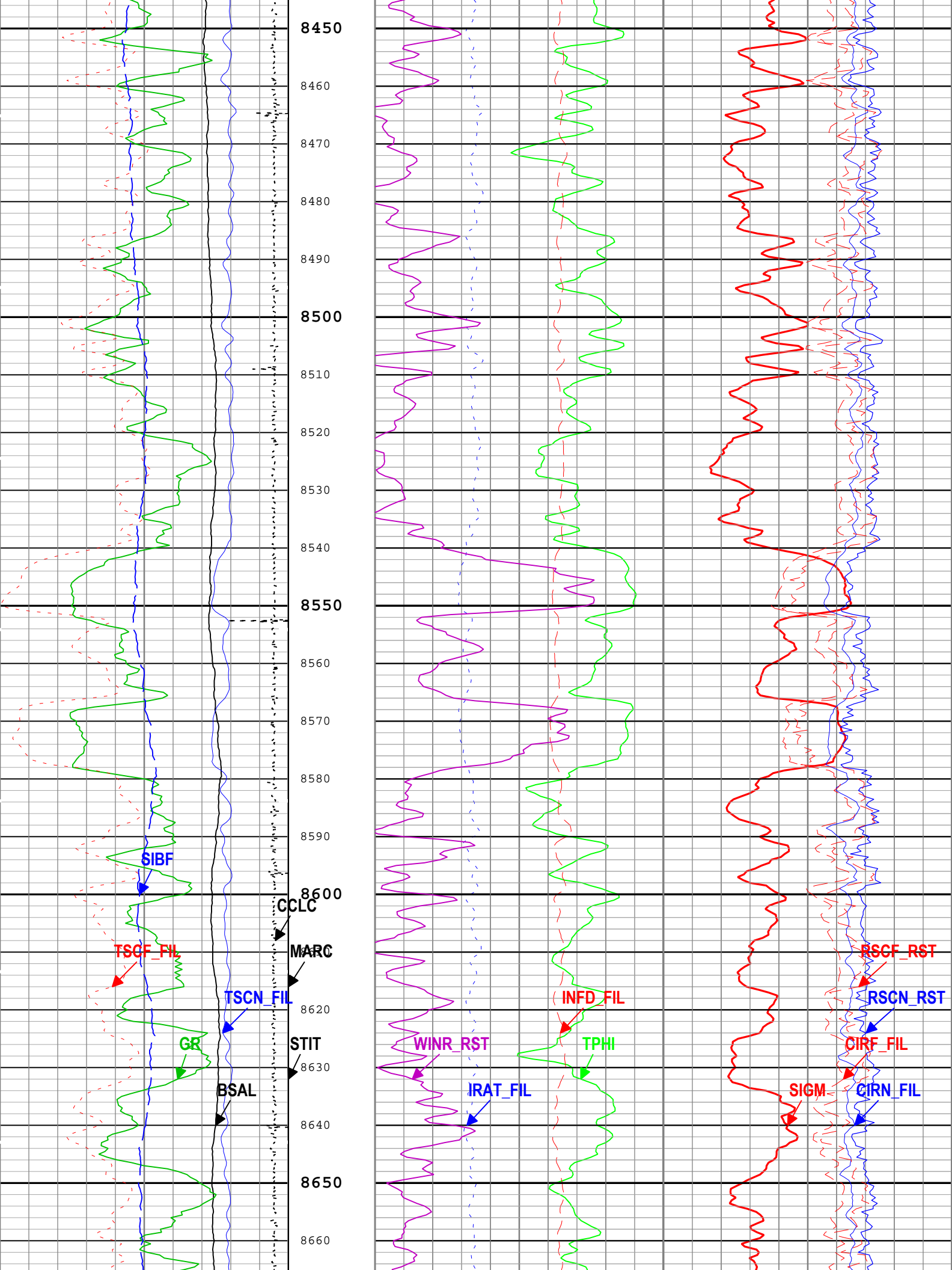


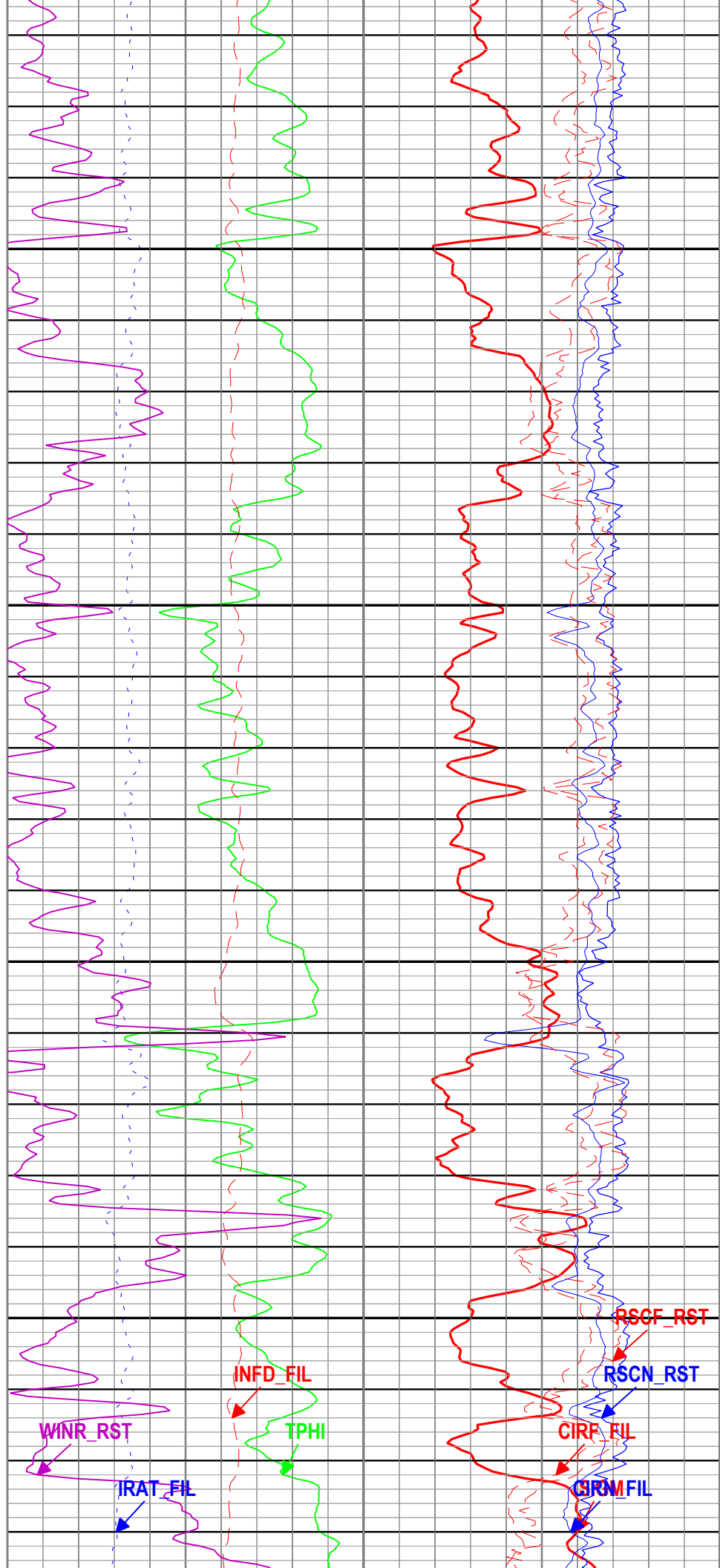
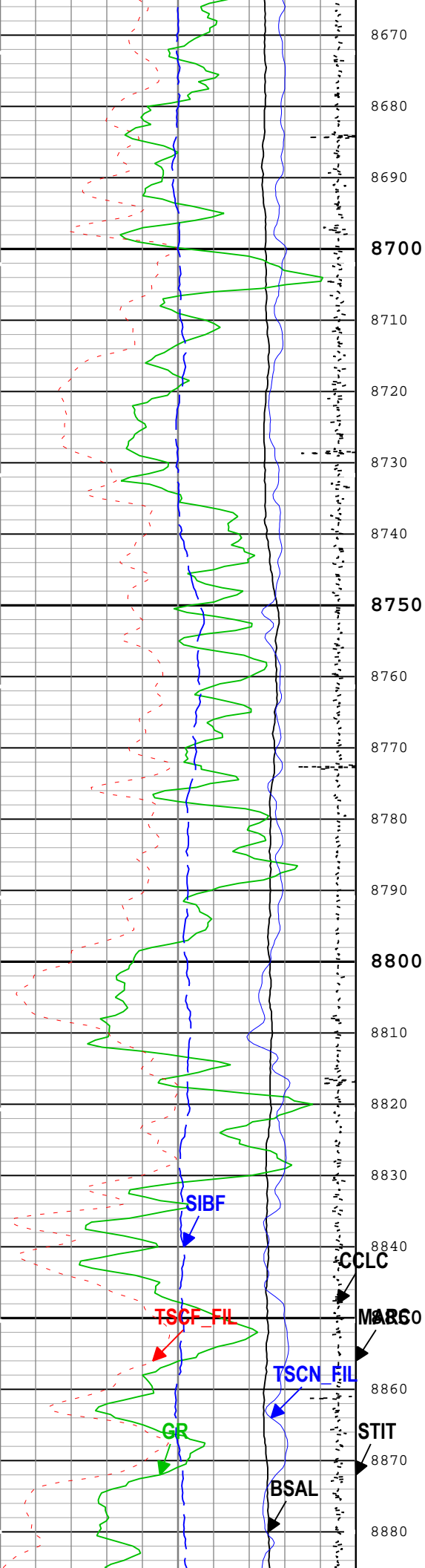


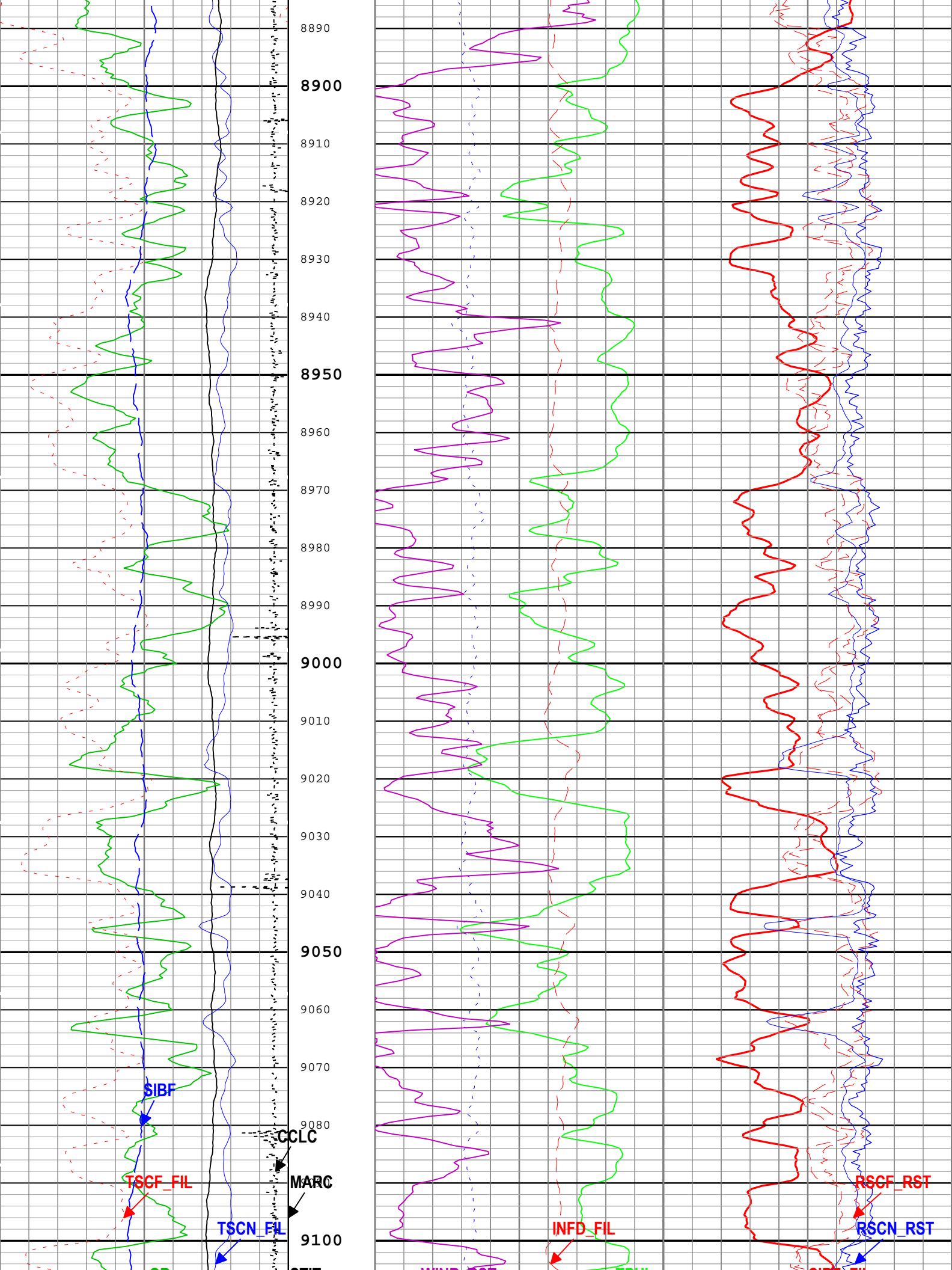


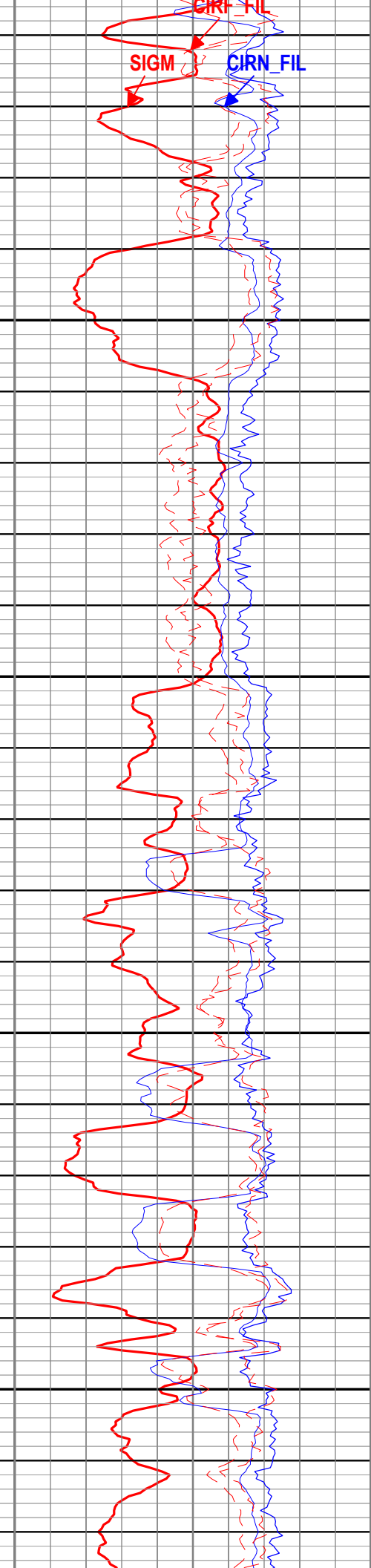
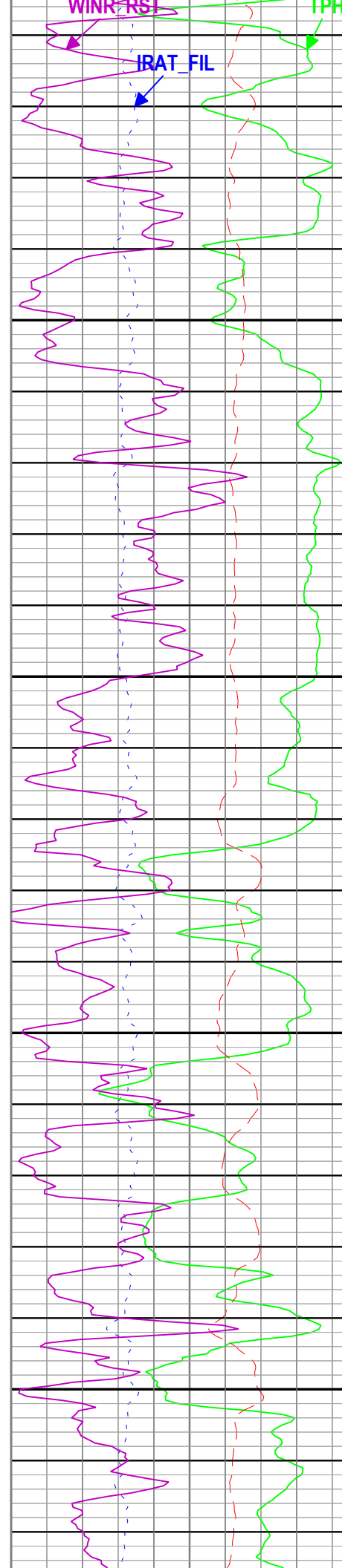
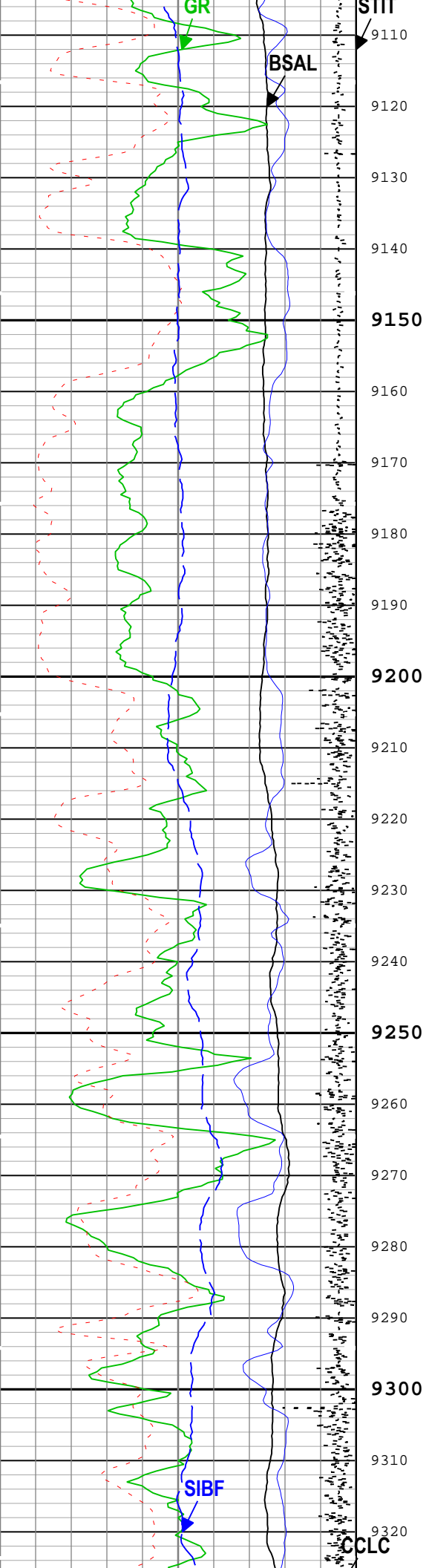


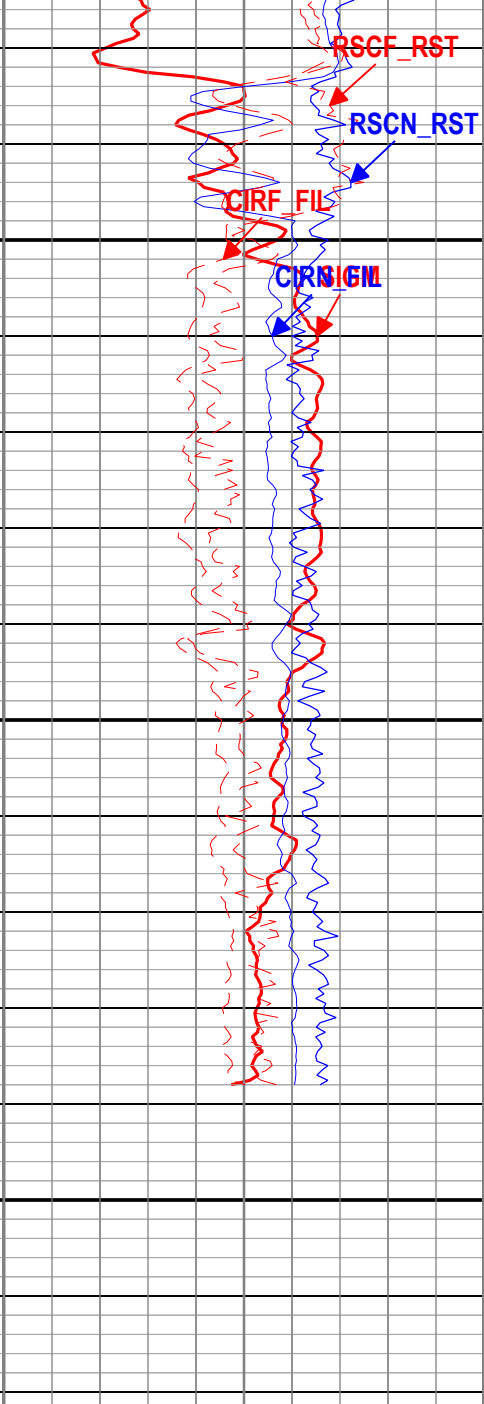
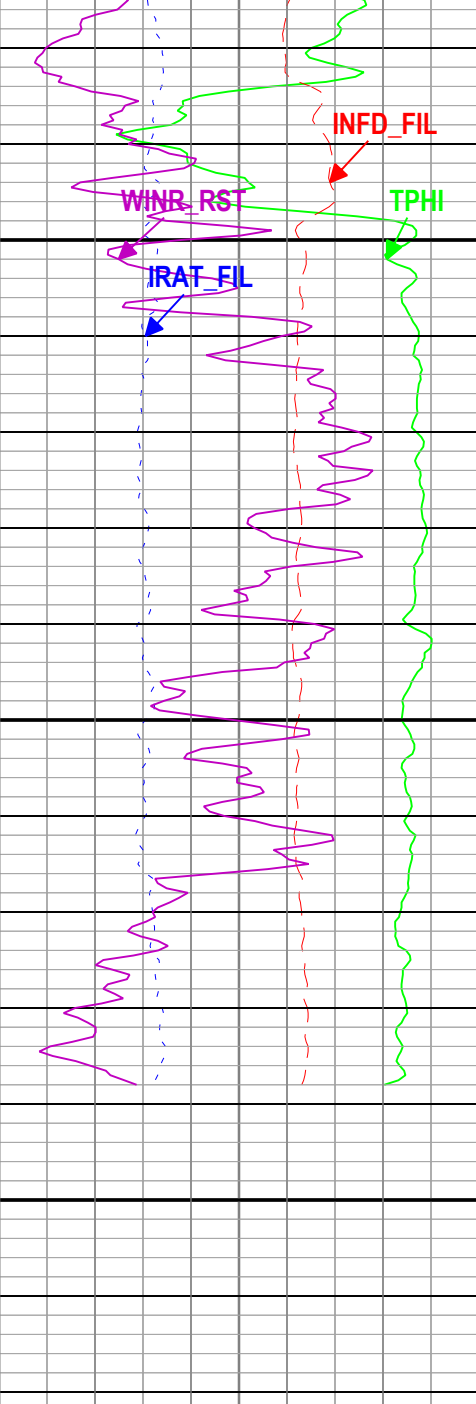
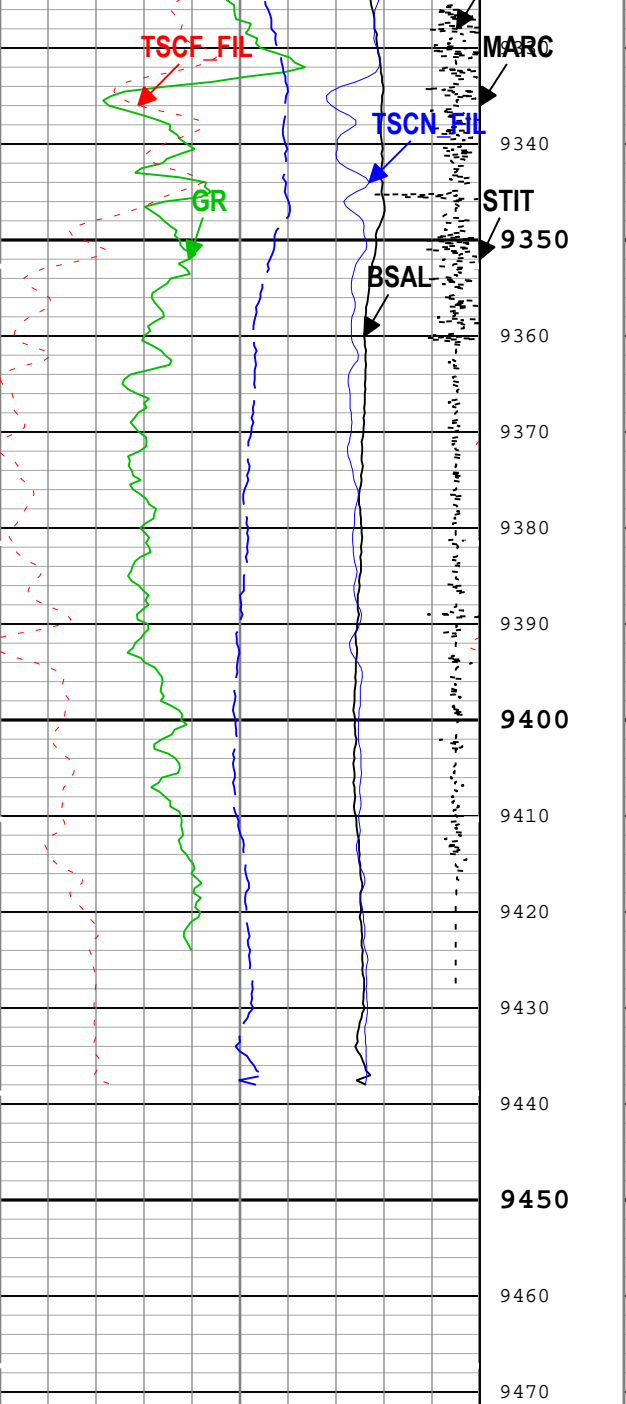












Borehole Salinity (BSAL) RST-C[1]	450	ppk	-50
Gamma Ray (GR) PSTP-B[1]	0	gAPI	150
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C[1]	30000	1/s	0
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C[1]	12000	1/s	0
CCL Computed Amplitude (CCLC) PSTP-B[1]	-19	V	1
Sigma Borehole Fluid (SIBF) RST-C[1]	100	cu	0

Stuck Tool Indicator, Total (STIT)	0	ft	50
Inelastic Ratio Filtered (IRAT_FIL) RST-C[1]	0.75		0
Thermal Decay Porosity (TPHI) RST-C[1]	0.6	ft3/ft3	0
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C[1]	10000	1/s	0

Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C[1]	60	cu	0
Weighted Inelastic Ratio (WINR_RST) RST-C[1]	0		0.4
Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C[1]	2.5		0
Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C[1]	5		0
Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C[1]	45		0
Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C[1]	45		0

Cable Drag From STIA to STIT	
Tool_Tot. Drag From D3T to STIT	
Minitron Arc Count (MARC) RST-C[1]	0 5

— 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 - Time Marked every 60.00 (s)

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

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: 09-Sep-2018 00:01:52

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	285.3	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	9455	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	Time Zoned	
RST_DLM	Depth Log Mode	RST-C	Sigma	

ONETime Zoned Parameters

Pass Log[3]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
PCCG	24 dB	07-Sep-2018 06:48:17	07-Sep-2018 06:51:11	9471.98	9404.82
PCCG	36 dB	07-Sep-2018 06:51:11	07-Sep-2018 06:57:30	9404.82	9219.84
PCCG	24 dB	07-Sep-2018 06:57:30	07-Sep-2018 08:27:35	9219.84	6753.02

Pass Log[4]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
PCCG	24 dB	07-Sep-2018 09:14:21	07-Sep-2018 09:41:04	6846.09	6101.68

Pass Log[5]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
PCCG	12 dB	07-Sep-2018 14:53:14	07-Sep-2018 17:01:45	6169.01	2251.68

All depth are at tool zero.

ONE

ONE

Software Version

Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include
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ONE	Log[2]:Up	Up	9007.95 ft	9470.87 ft	07-Sep-2018 6:19:03 AM	07-Sep-2018 6:35:02 AM	ON	-9.16 ft	Yes	Parallel Data
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All depths are referenced to toolstring zero

Log Company:Caerus Operating LLC Well:NPR 13D-10 596 ONE: Log[2]:Up:S011

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: 09-Sep-2018 00:02:25

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

TIME_1900 - Time Marked every 60.00 (s)

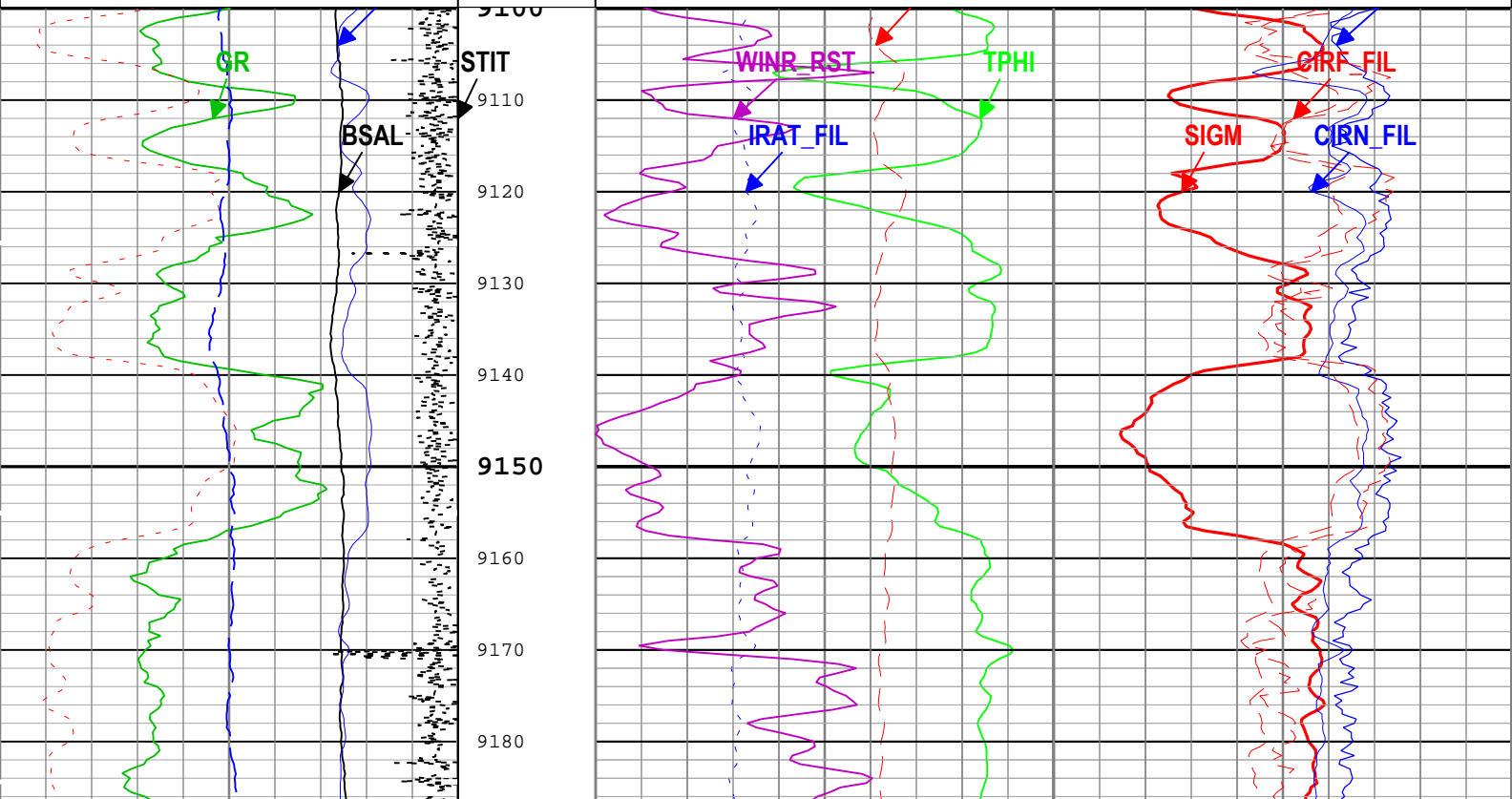
IHV - Integrated Hole Volume every 10.00 (ft3)

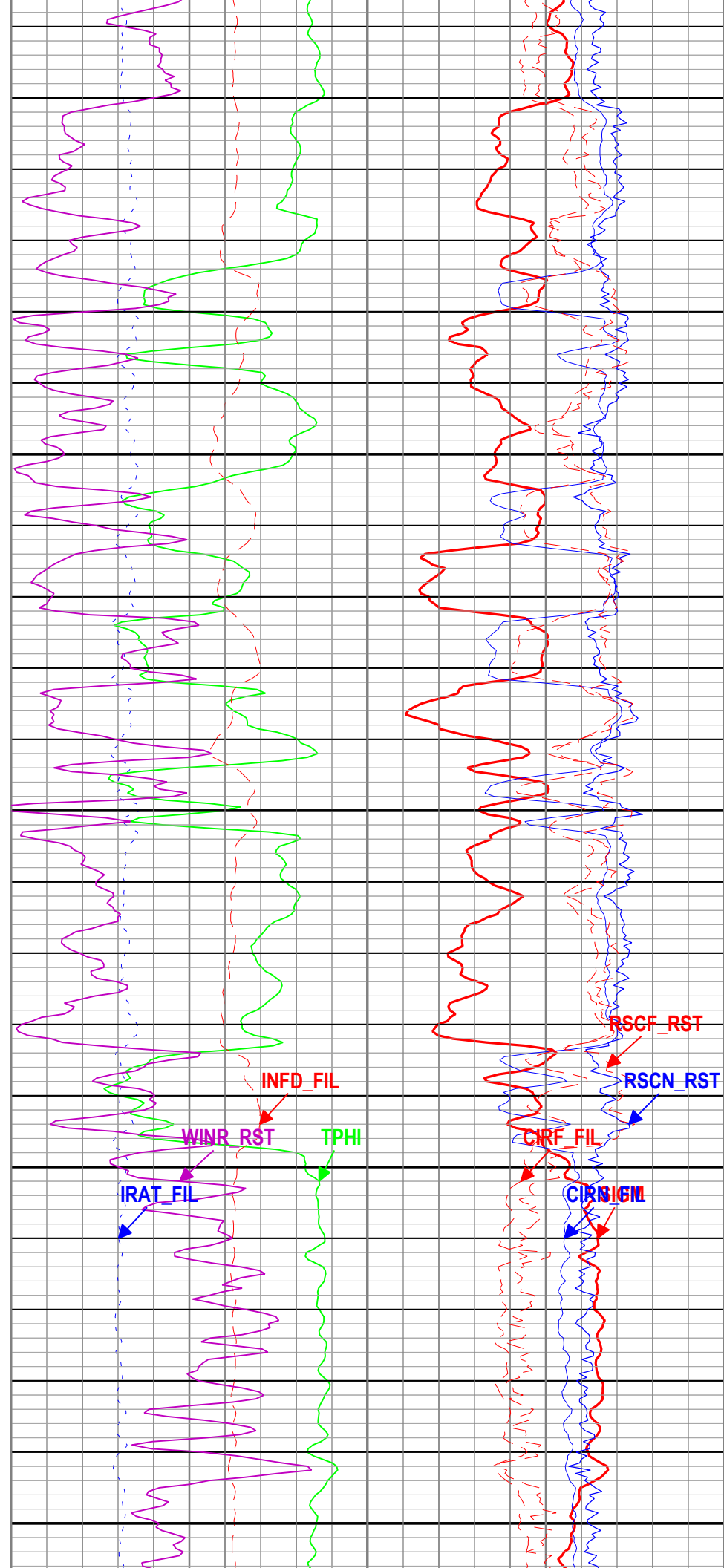
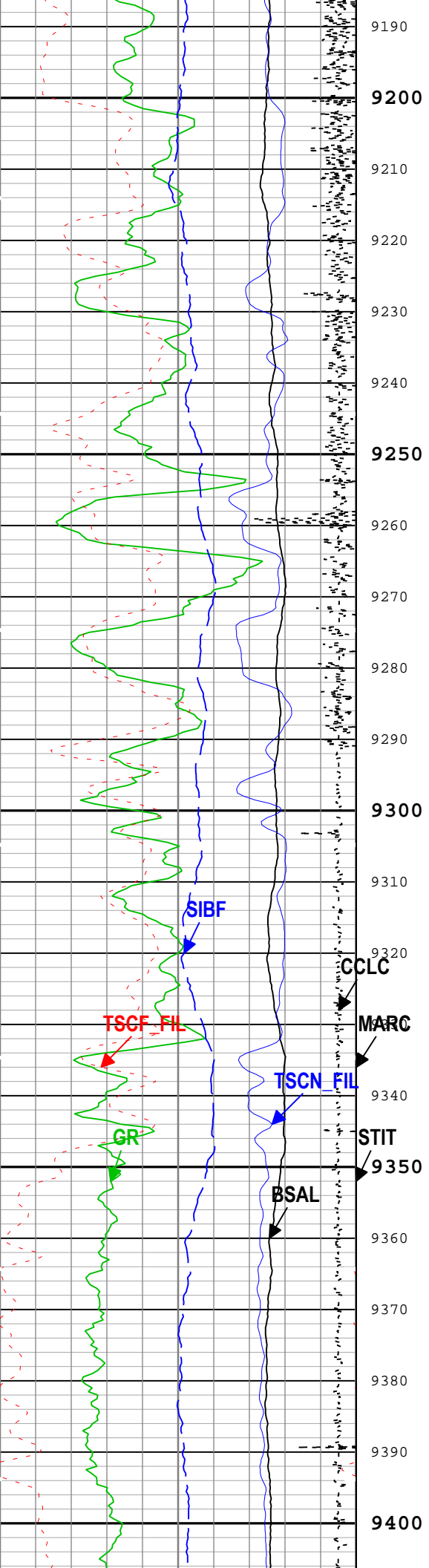
IHV - Integrated Hole Volume every 100.00 (ft3)

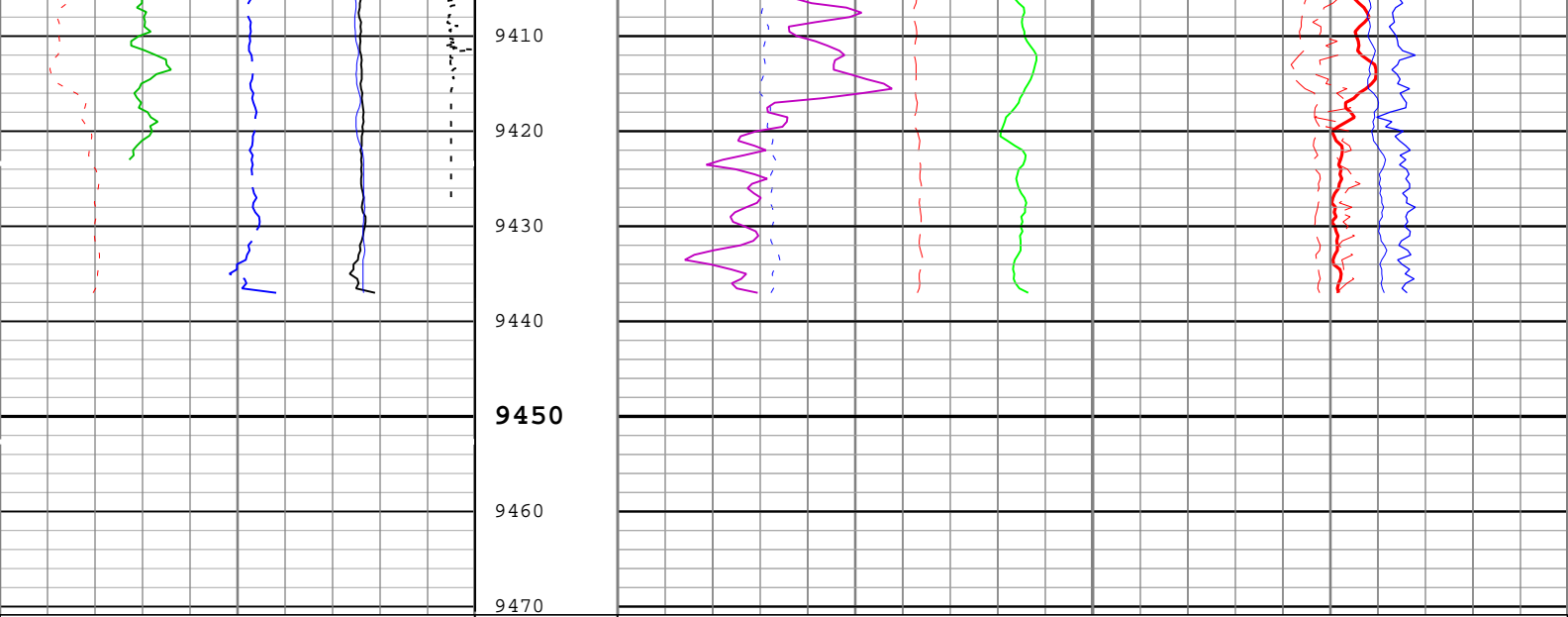
ICV - Integrated Cement Volume every 10.00 (ft3)

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	0 ft 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	0.75 0	5 0
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C	Tool_Tot. Drag From D3T to STIT	Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C
30000 1/s 0	0.6 ft3/ft3 0	45 0
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C	Minitron Arc Count (MARC) RST-C	Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
12000 1/s 0	60 cu 0	45 0
CCL Computed Amplitude (CCLC) PSTP-B		Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C
-19 V 1		60 cu 0
Sigma Borehole Fluid (SIBF) RST-C		Weighted Inelastic Ratio (WINR_RST) RST-C
100 cu 0		0 0.4







Borehole Salinity (BSAL) RST-C		Stuck Tool Indicator, Total (STIT)	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C	
450	ppk	-50	60	cu
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
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
CCL Computed Amplitude (CCLC) PSTP-B		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
-19	V	1	10000	1/s
Sigma Borehole Fluid (SIBF) RST-C		0	5	45
100	cu	5	0	45
				Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
				45

- ICV - Integrated Cement Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)
- IHV - Integrated Hole Volume every 100.00 (ft3)
- IHV - Integrated Hole Volume every 10.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

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

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: 09-Sep-2018 00:02:25

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	285.3	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	9455	ft
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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	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	07-Sep-2018 06:19:03	07-Sep-2018 06:23:57	9470.87	9335.69
PCCG	36 dB	07-Sep-2018 06:23:57	07-Sep-2018 06:34:22	9335.69	9026.74
PCCG	24 dB	07-Sep-2018 06:34:22	07-Sep-2018 06:35:02	9026.74	9007.95

All depth are at tool zero.

Company: Caerus Operating LLC

Schlumberger

Well: NPR 13D-10 596

Field: NPR

County: Garfield

State: Colorado

Cement Bond Log

RST Sigma Log

Gamma Ray - Collar Locator Log