

Company: CAERUS OPERATING LLC

Well: Chevron 11D-17

Field: Grand Valley

County: Garfield State: Colorado

Reservoir Saturation Tool

Sigma

Sigma			
Location:			
Lot 1 Sec. 17 T6S R96W		Elev.:	K.B. 5613.00 ft
			G.L. 5583.00 ft
			D.F. 5613.00 ft
Permanent Datum:	Ground Level	Elev.:	5583.00 f
Log Measured From:	Kelly Bushing		above Perm. Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Section:	Township:	Range:
05-045-23239	17	6S	96W

Logging Date	22-Jul-2017			
Run Number	ONE			
Depth Driller	7678.00 ft			
Schlumberger Depth	7678.00 ft			
Bottom Log Interval	7658.00 ft			
Top Log Interval	500.00 ft			
Casing Fluid Type	Water			
Salinity				
Density	10 lbm/gal			
Fluid Level	8.00 ft			
BIT/CASING/TUBING STRING				
Bit Size	6.00 in			
From	0.00 ft			
To	7678.00 ft			
Casing/Tubing Size	4.5 in			
Weight	11.6 lbm/ft			
Grade	N/A			
From	0.00 ft			
To	7678.00 ft			
Max Recorded Temperatures				
Logger on Bottom		Time	150	
23-Jul-2017		10:45:00		
Unit Number	Location:			
OSL C-AR2 2161	Ft. Morgan			
Recorded By	L. Awalt			
Witnessed By				

Disclaimer

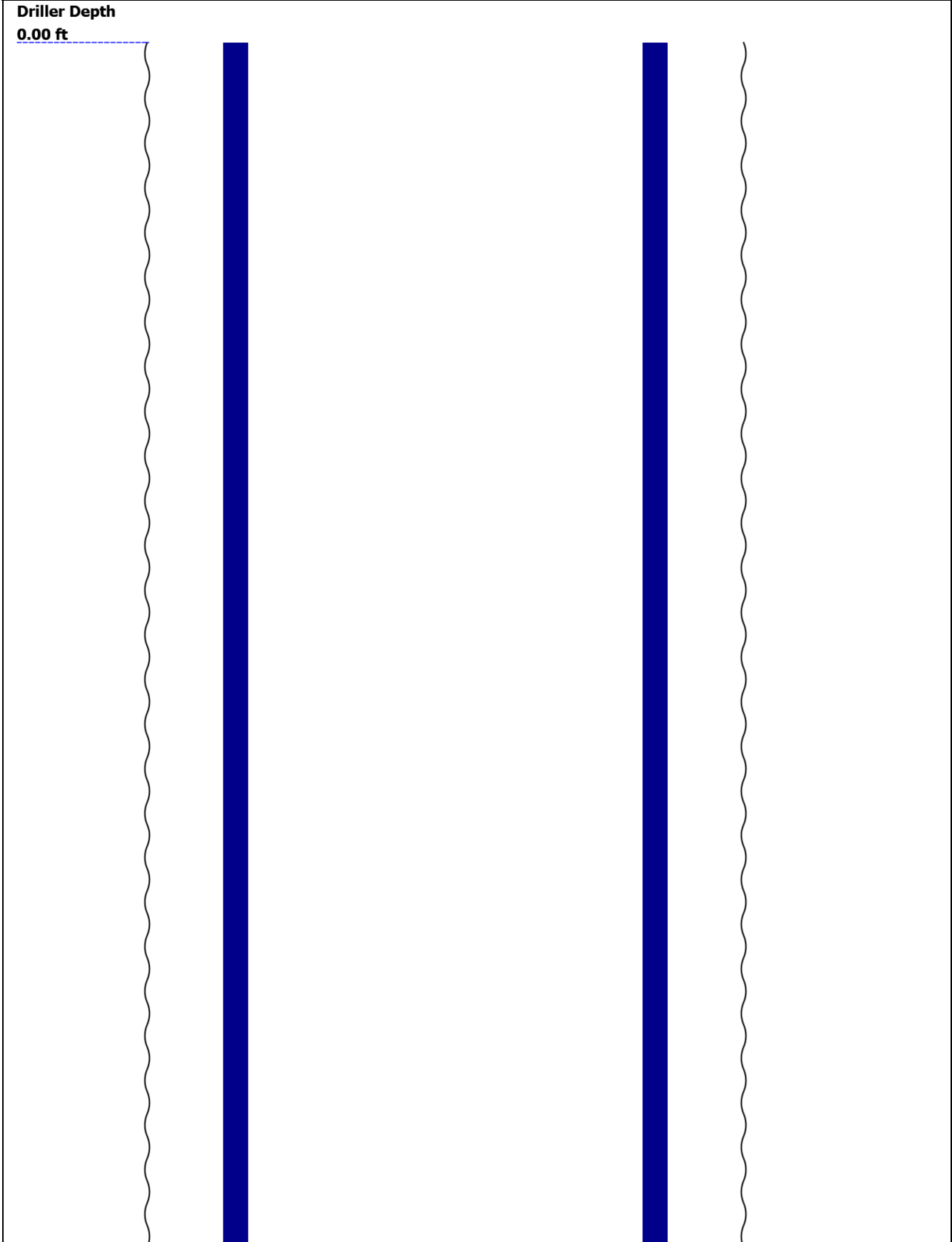
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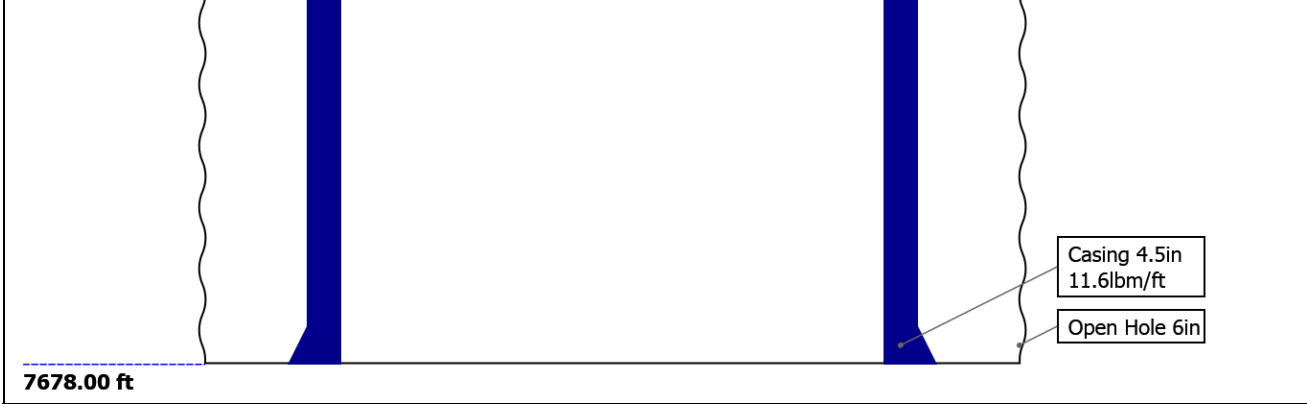
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Well Sketch



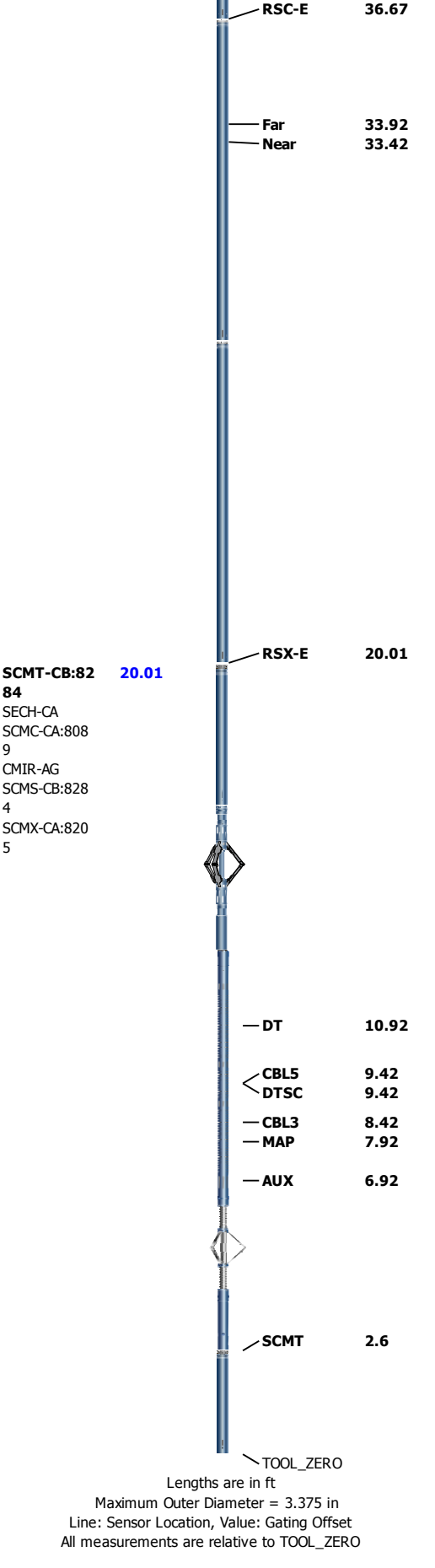


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	6					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	7678					
Bottom Logger (ft)	7678					
Casing						
Size (in)	4.5					
Weight (lbm/ft)	11.6					
Inner Diameter (in)	4					
Grade	N/A					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	7678					
Bottom Logger (ft)	7678					

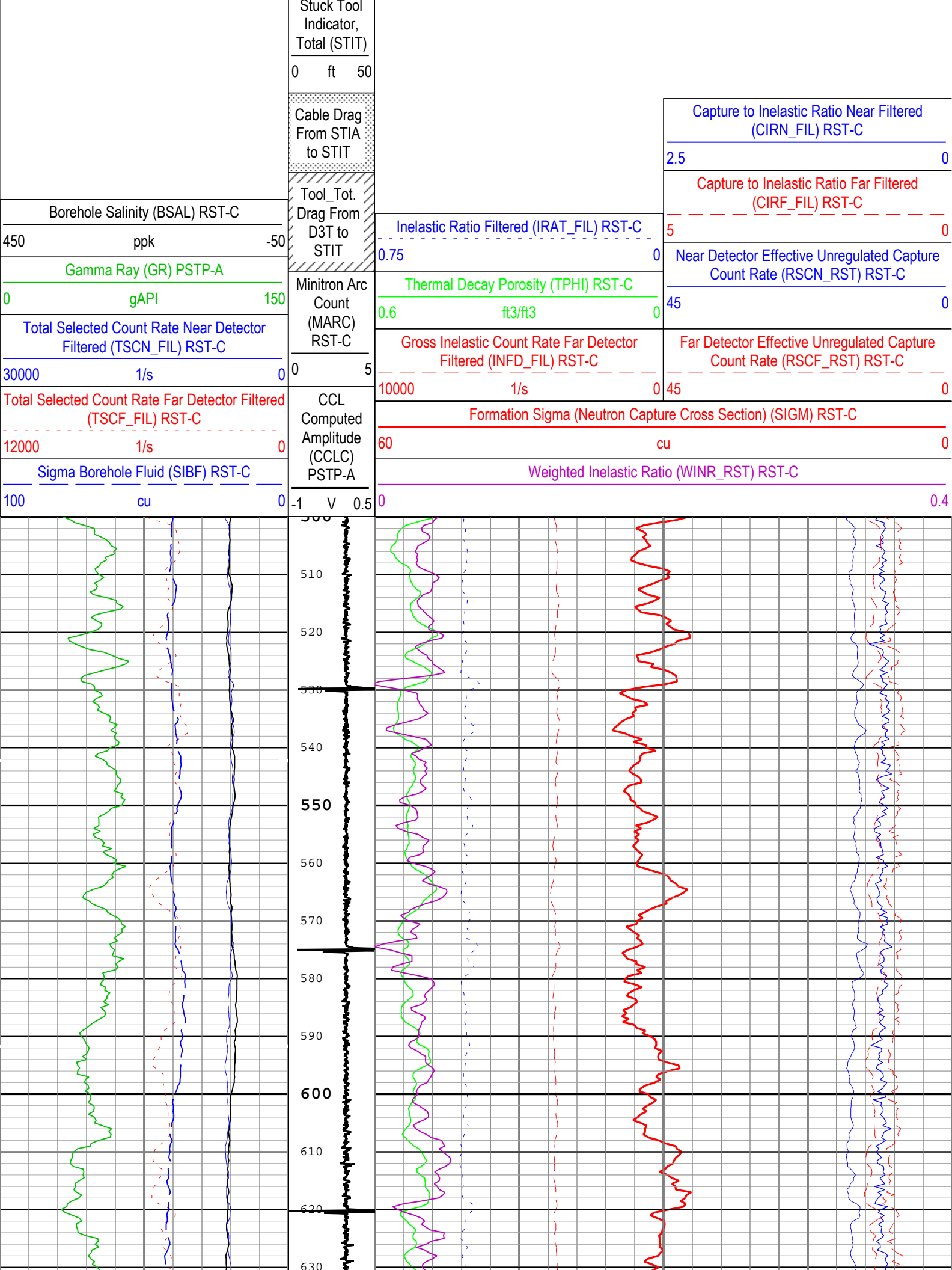
Remarks and Equipment Summary

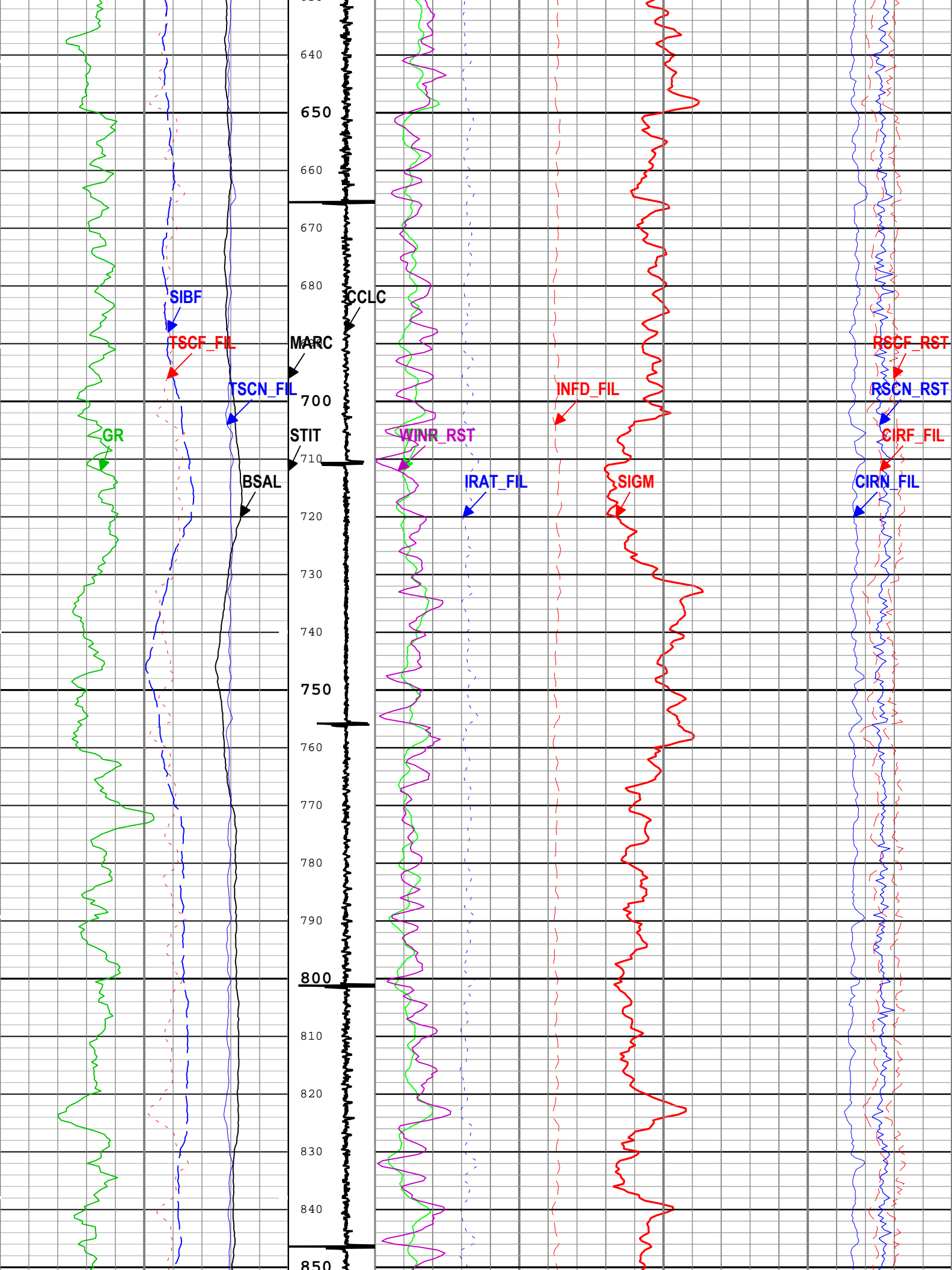
ONE: Toolstring				ONE: Remarks		
Equip name	Length	MP name	Offset	Thank you for choosing Schlumberger!		
LEH-QT	55.37			Log run for cement and formation evaluation		
LEH-QT				Tool run centralized as per tool sketch		
AH-63	52.45			Repeat section done at surface after main pass, GR expected to read high.		
AH-79	52.13			Crew: Oscar Silva, Kenneth Ellis, Gary Lapp		
PSTP-A:382	51.3					
3						
PSC-A						
PSTC-A:3733						
PBMS-A:3823						
Sapphire 10kP						
SI						
RST-C:343	43.03					
RSCH-A:412						
RSC-E:416						
RSS-A:374						
MNTR-F:1254						
RSXH-A:342						
RSX-E:343						

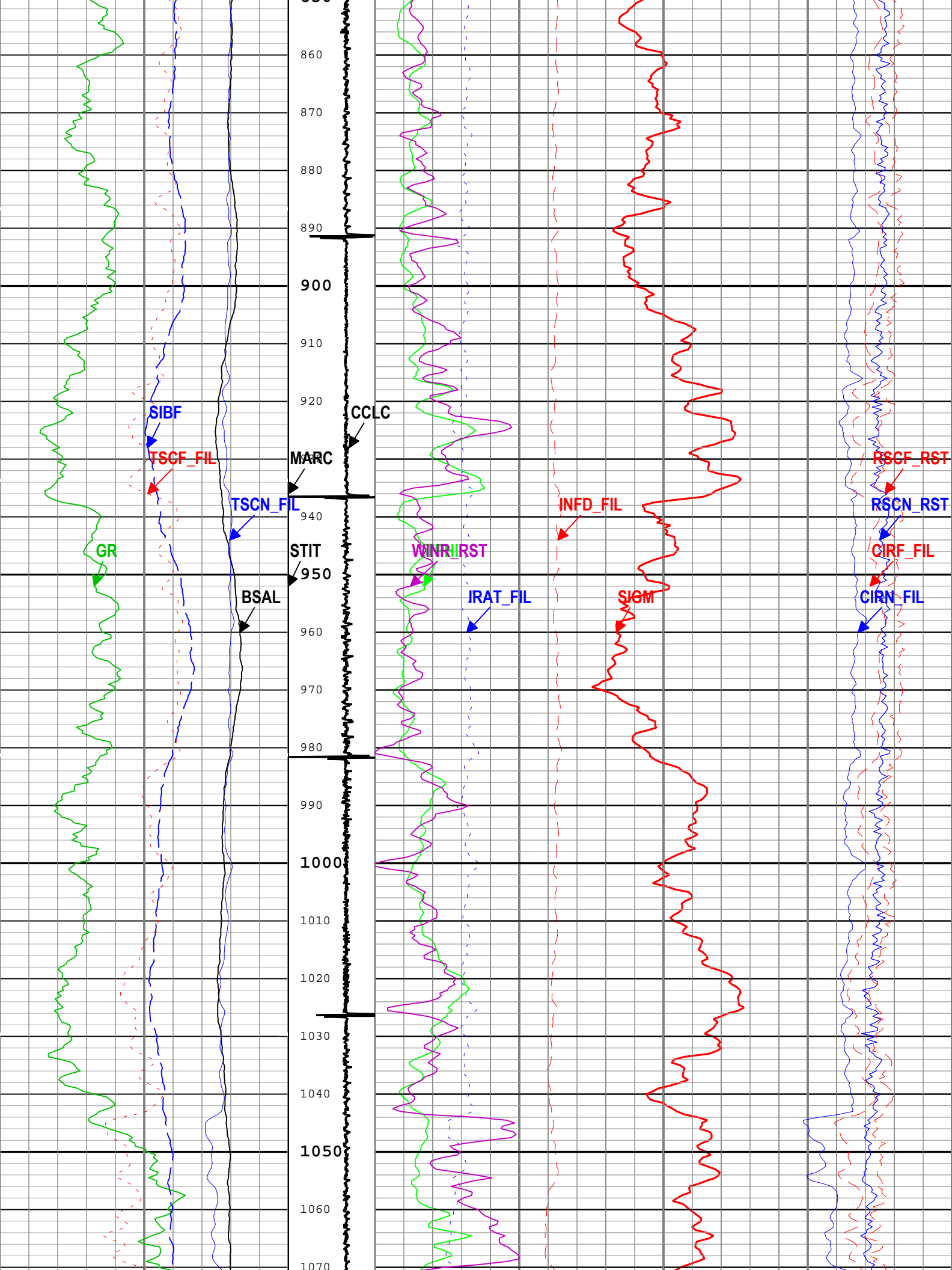


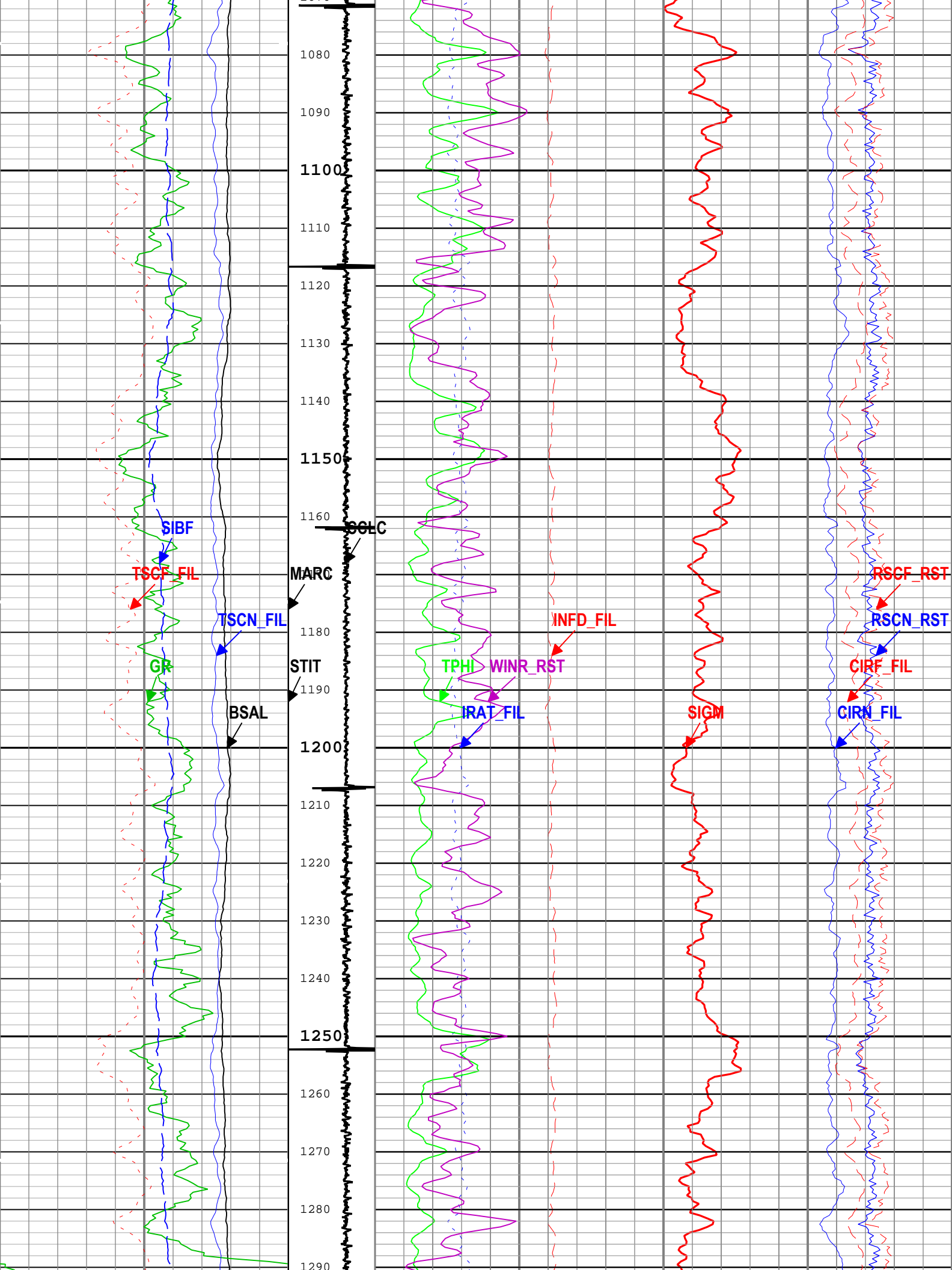
Depth Summary			
		ONE	
Depth Measuring Device			
Type	IDW-B		
Serial Number			

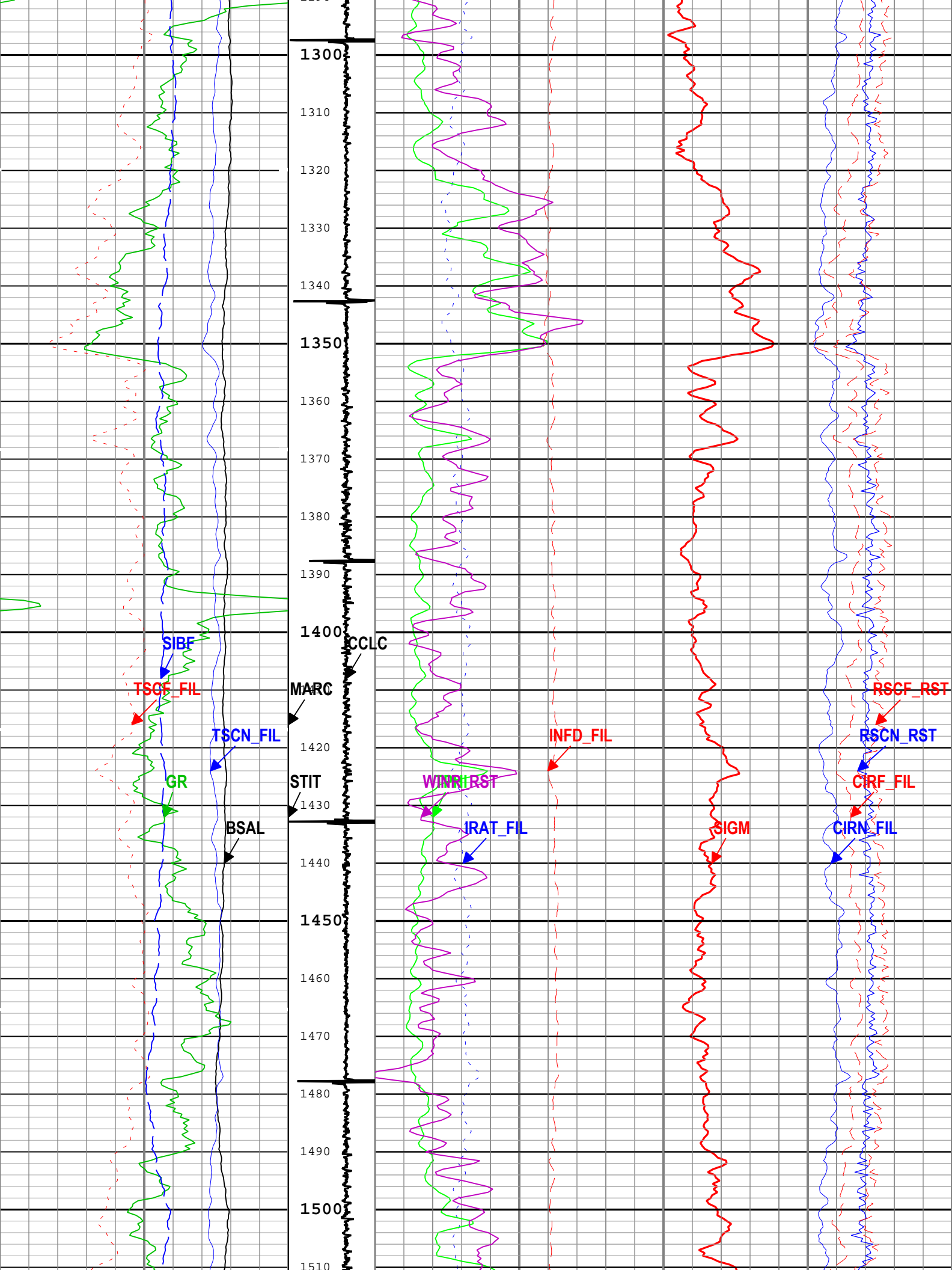
Calibration Date									
Calibrator Serial Number									
Calibration Cable Type									
Wheel Correction 1		0							
Wheel Correction 2		0							
Tension Device									
Type		CMTD-B/A							
Serial Number									
Calibration Date									
Calibrator Serial Number									
Number of Calibration Points		0							
Logging Cable									
Type		7-39P-LXS							
Serial Number									
Length		2000.00 ft							
Conveyance Type		Wireline							
Rig Type		Crane							
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									
Tool Zero Check At Surface									
ONE									
Software Version									
Acquisition System						Version			
Maxwell 2017 SP2						7.2.87778.3100			
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	487.72 ft	7663.93 ft	22-Jul-2017 9:54:31 PM	23-Jul-2017 12:26:07 AM	ON	5.47 ft	Yes
All depths are referenced to toolstring zero									
Log					Company:CAERUS OPERATING LLC			Well:Chevron 11D-17	
ONE: Log[4]:Up:S002									
Description: RST SIGMA Answer Format: Log (Import of RST SIGMA Answer) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth									
Creation Date: 23-Jul-2017 01:09:48									
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)									
└─ CMTD-B/A									

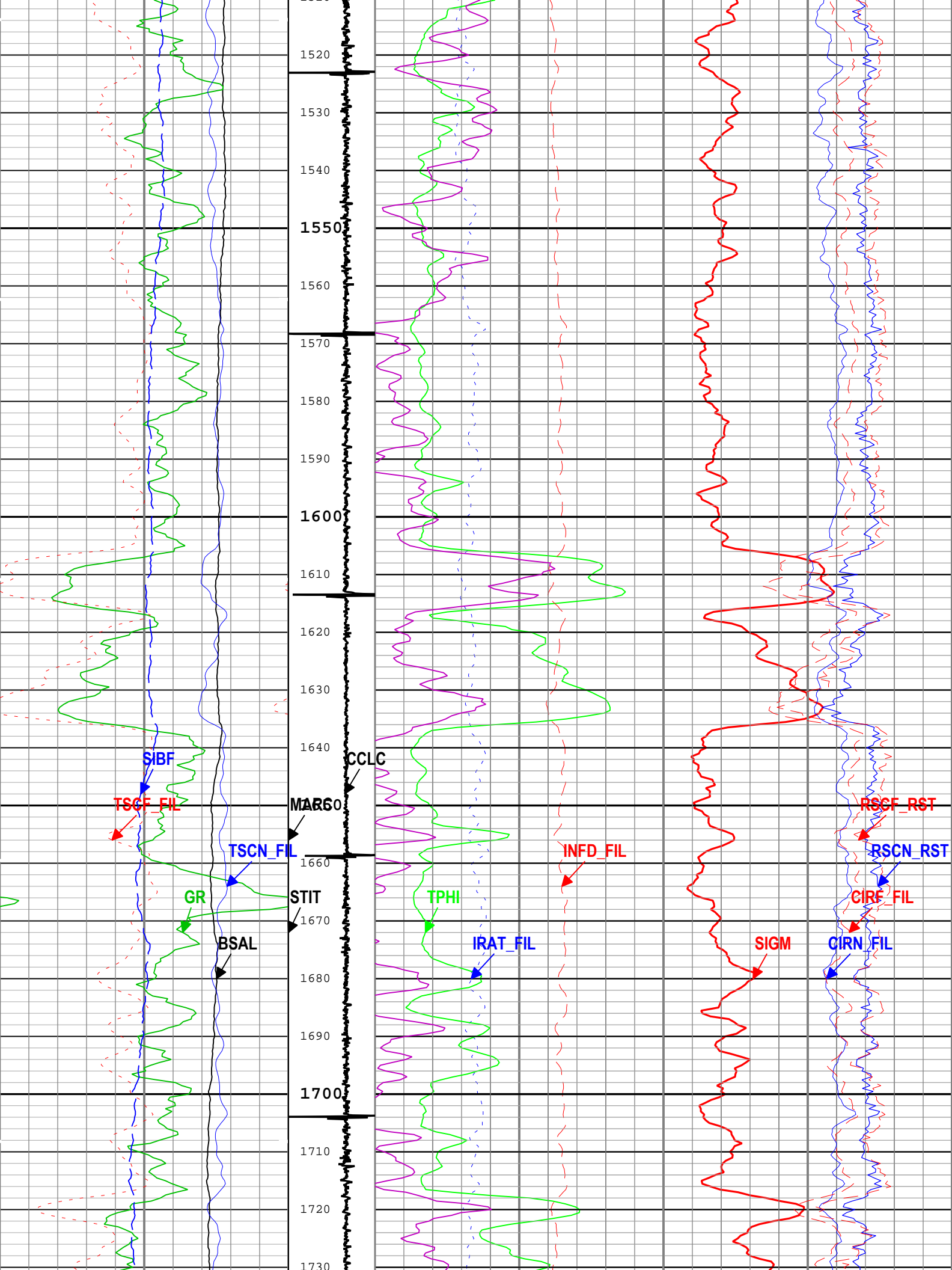


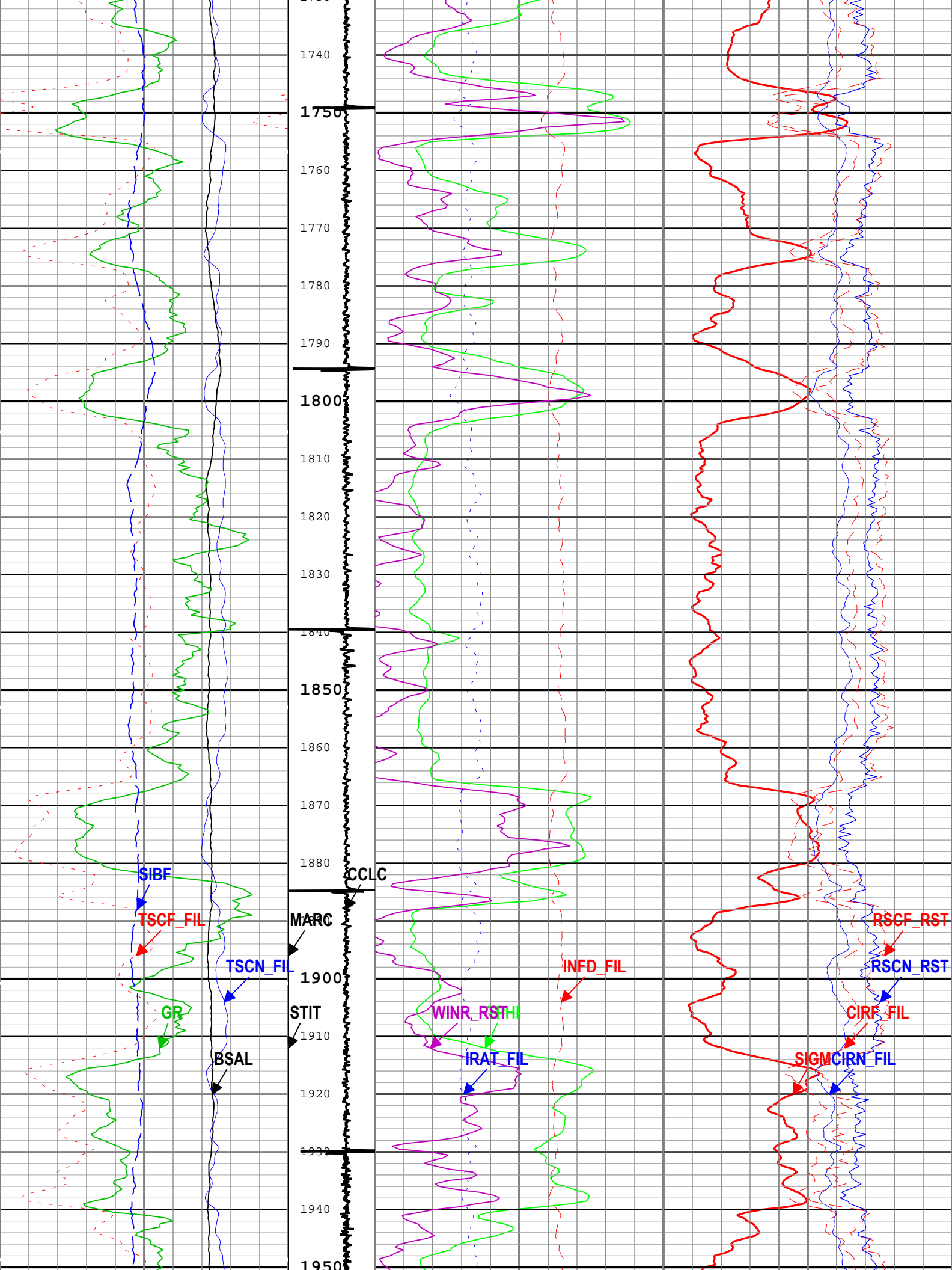


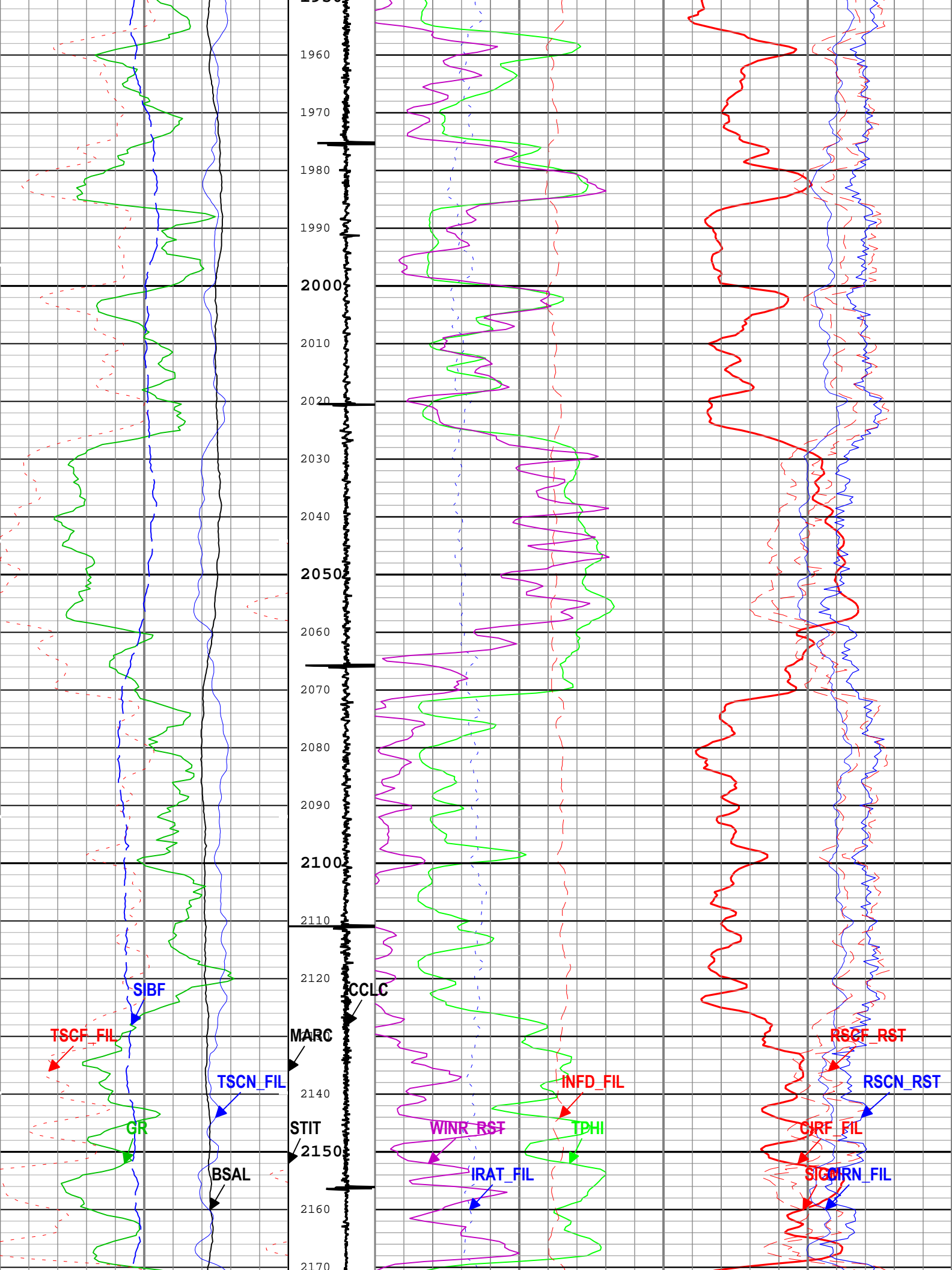


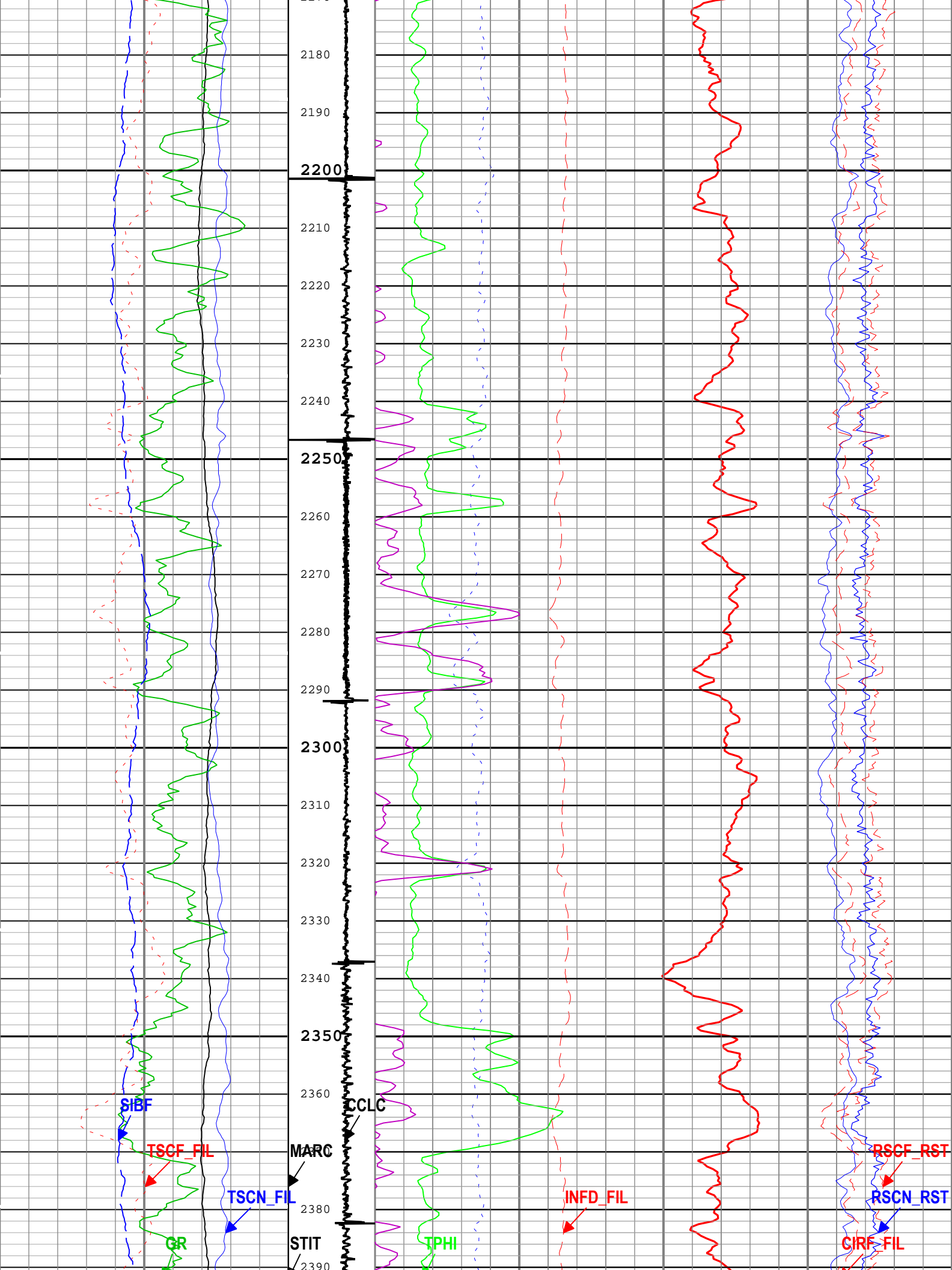


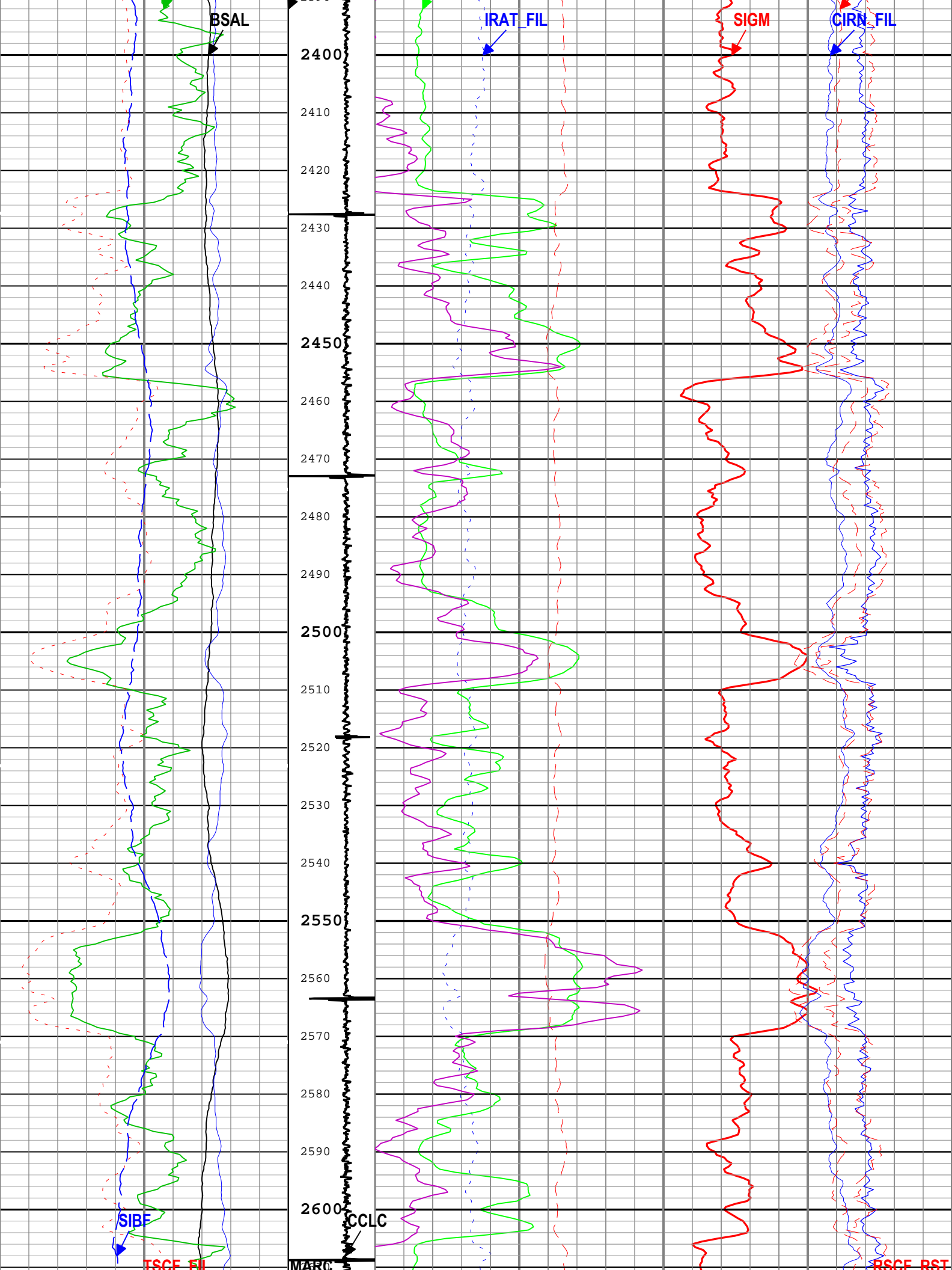


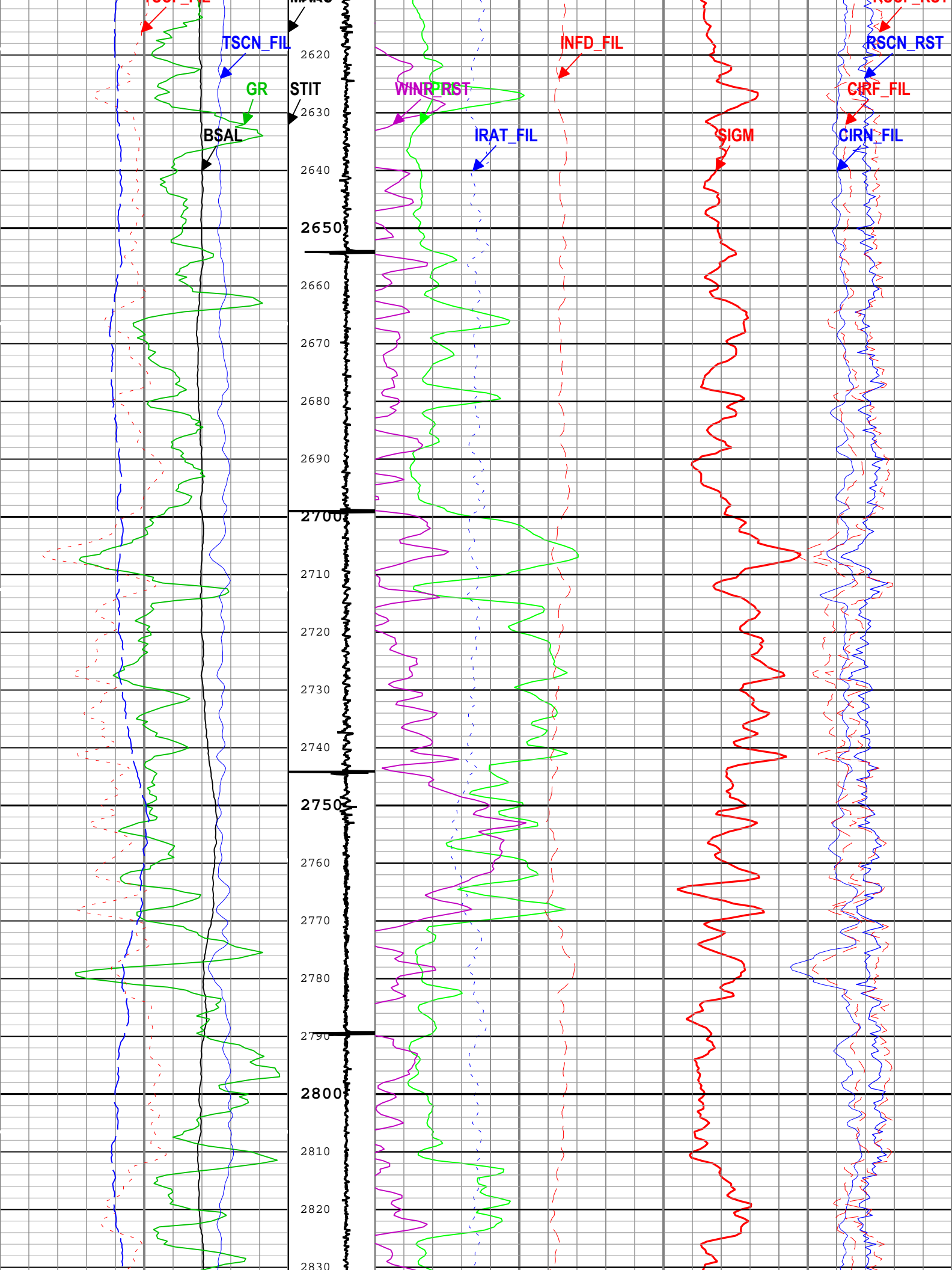


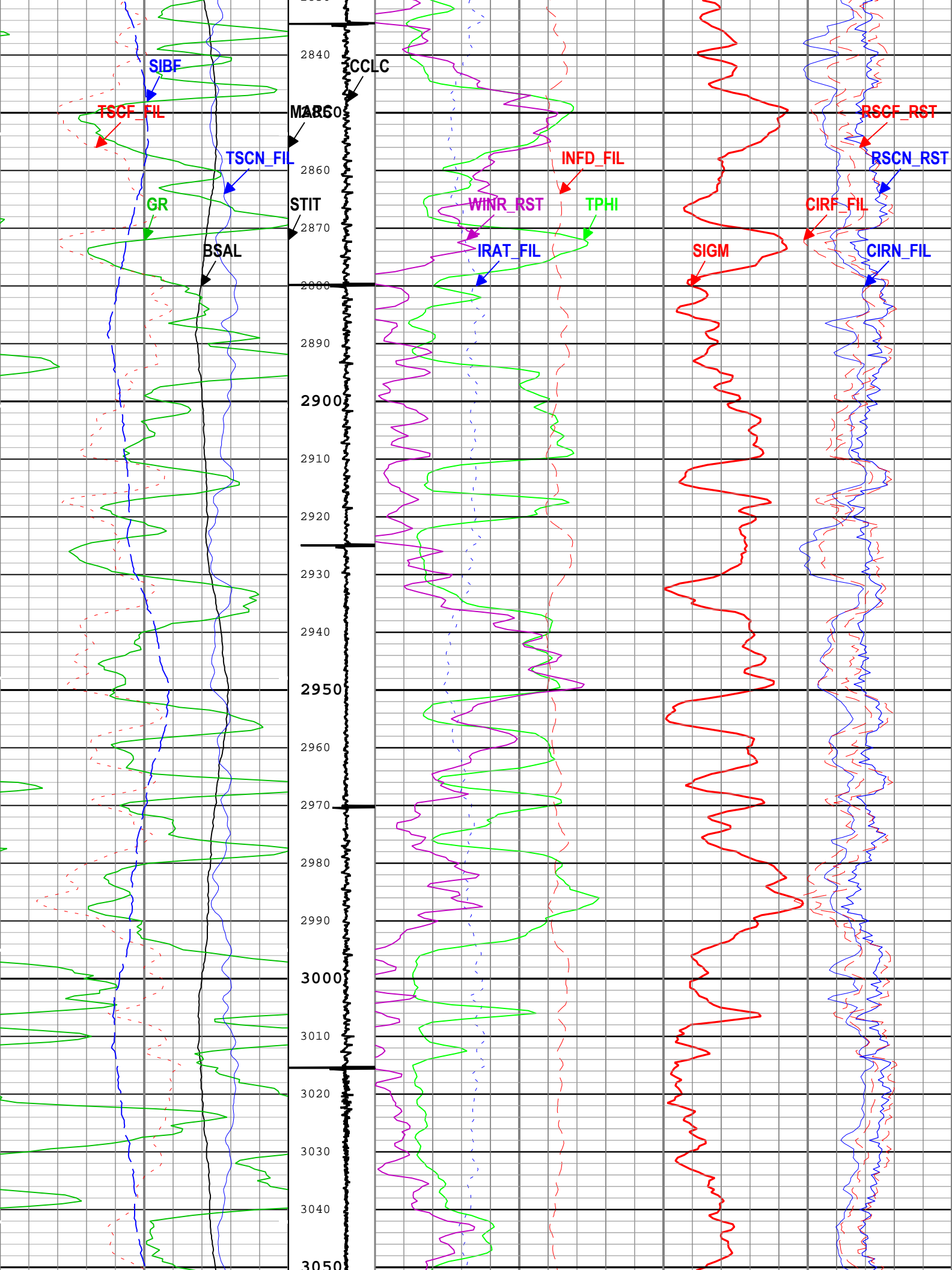


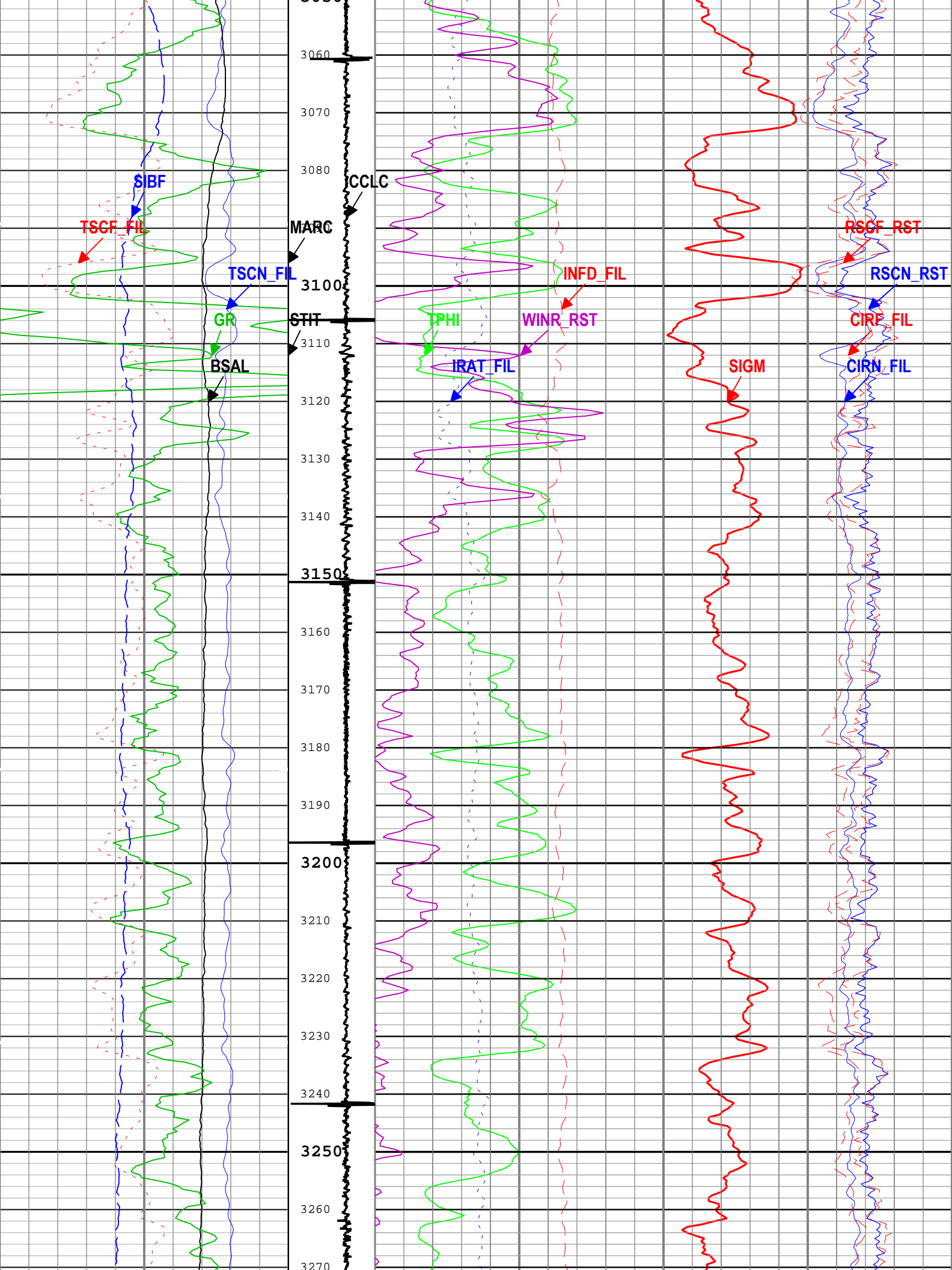


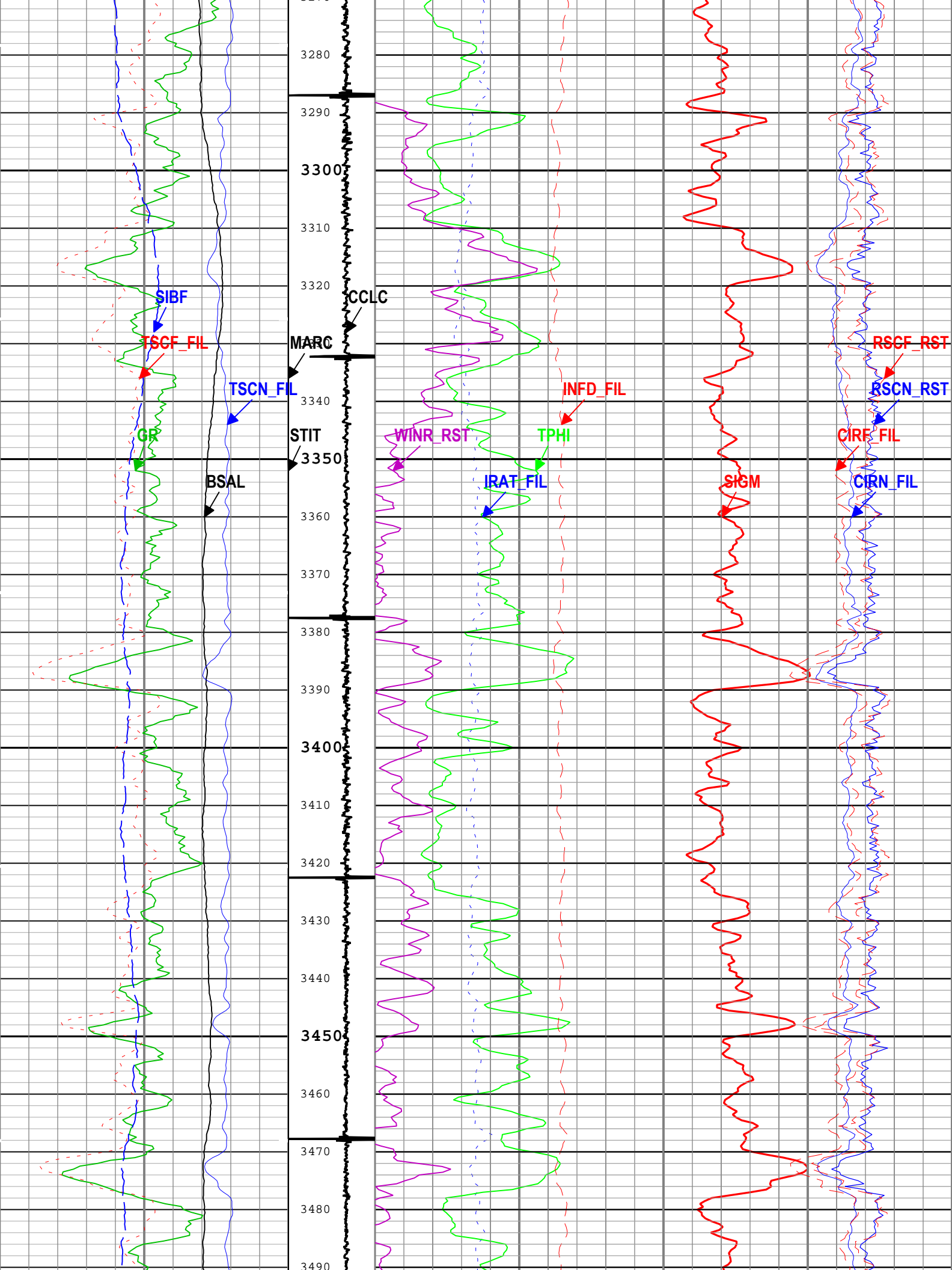


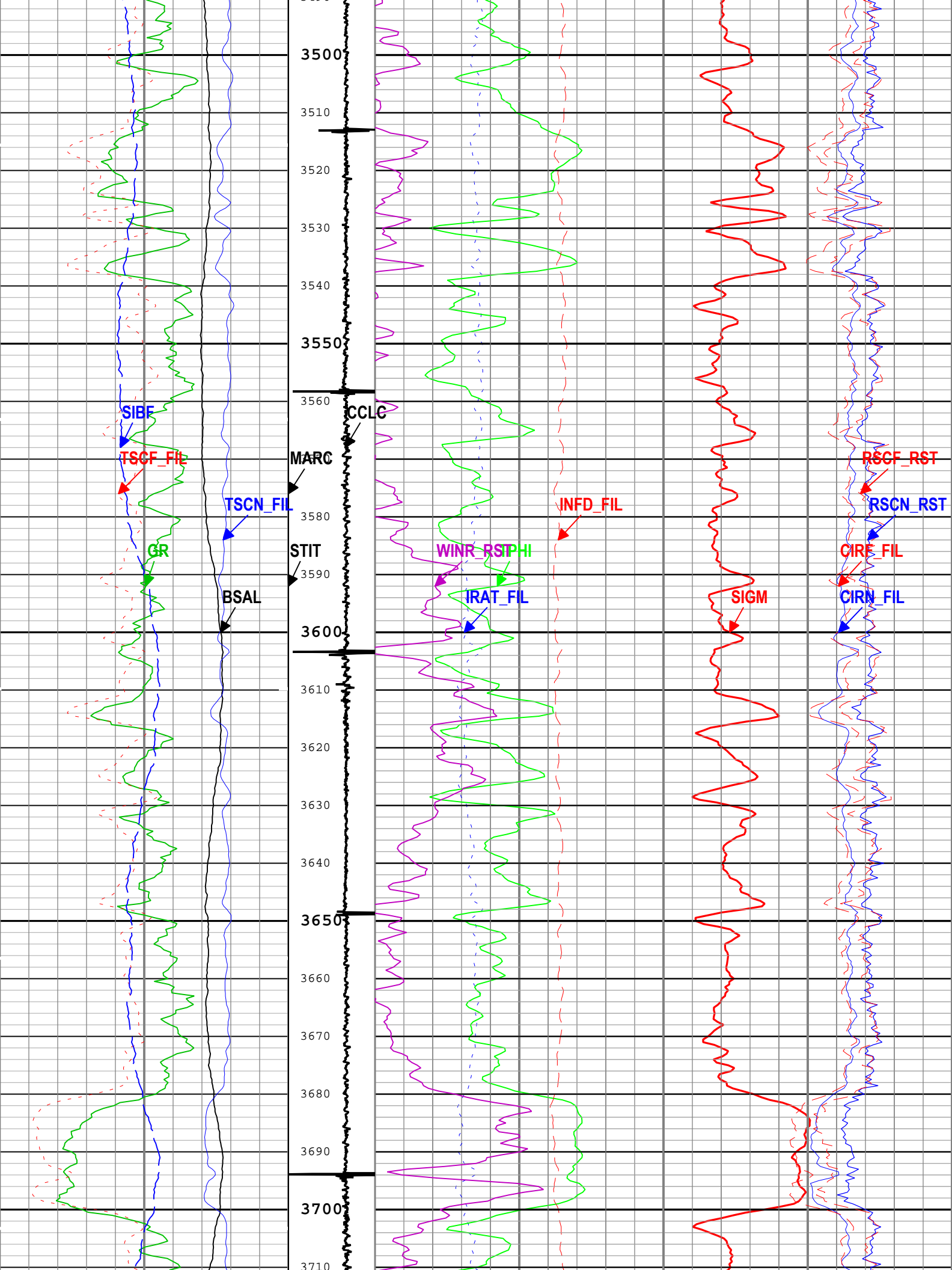


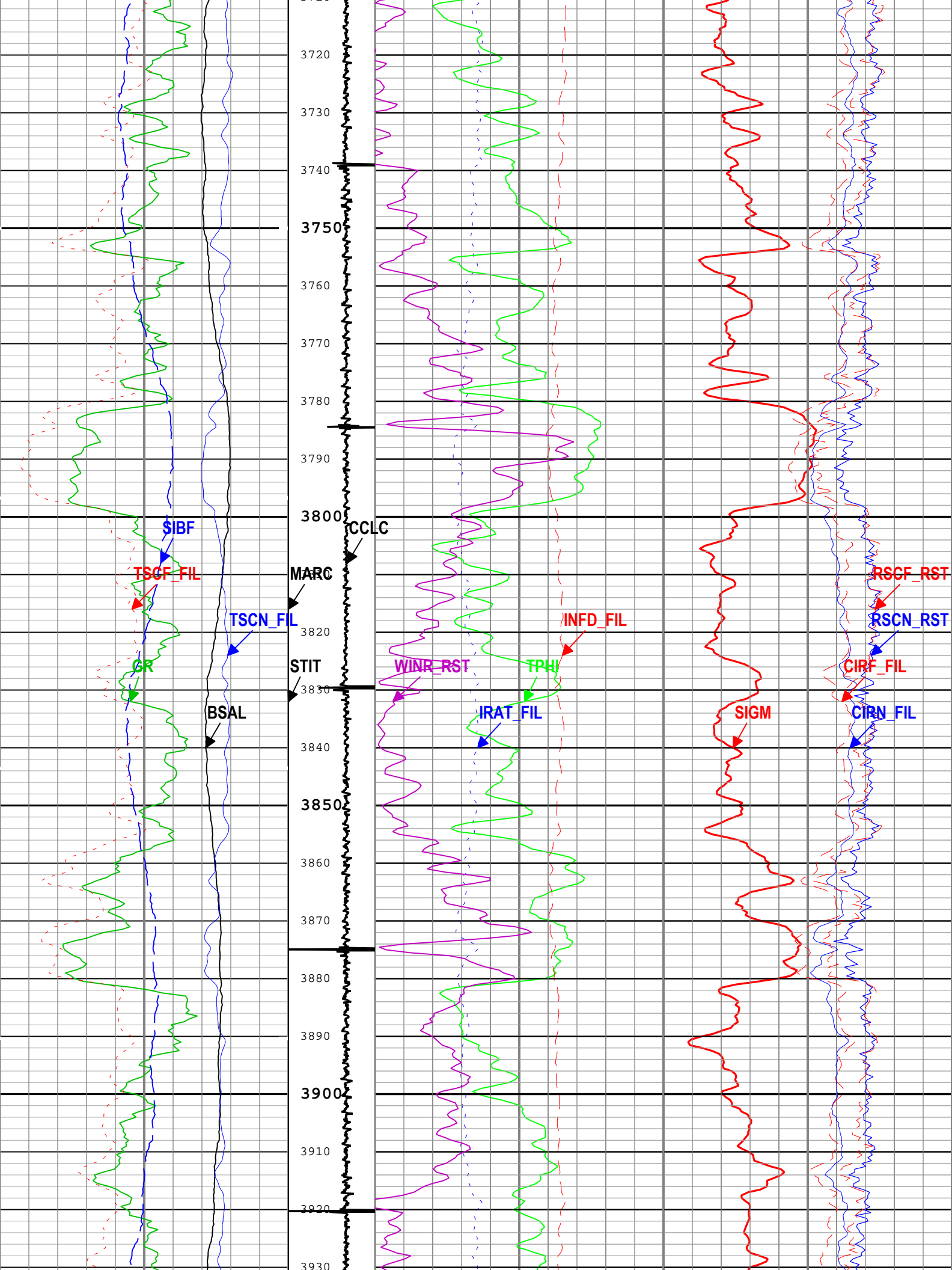


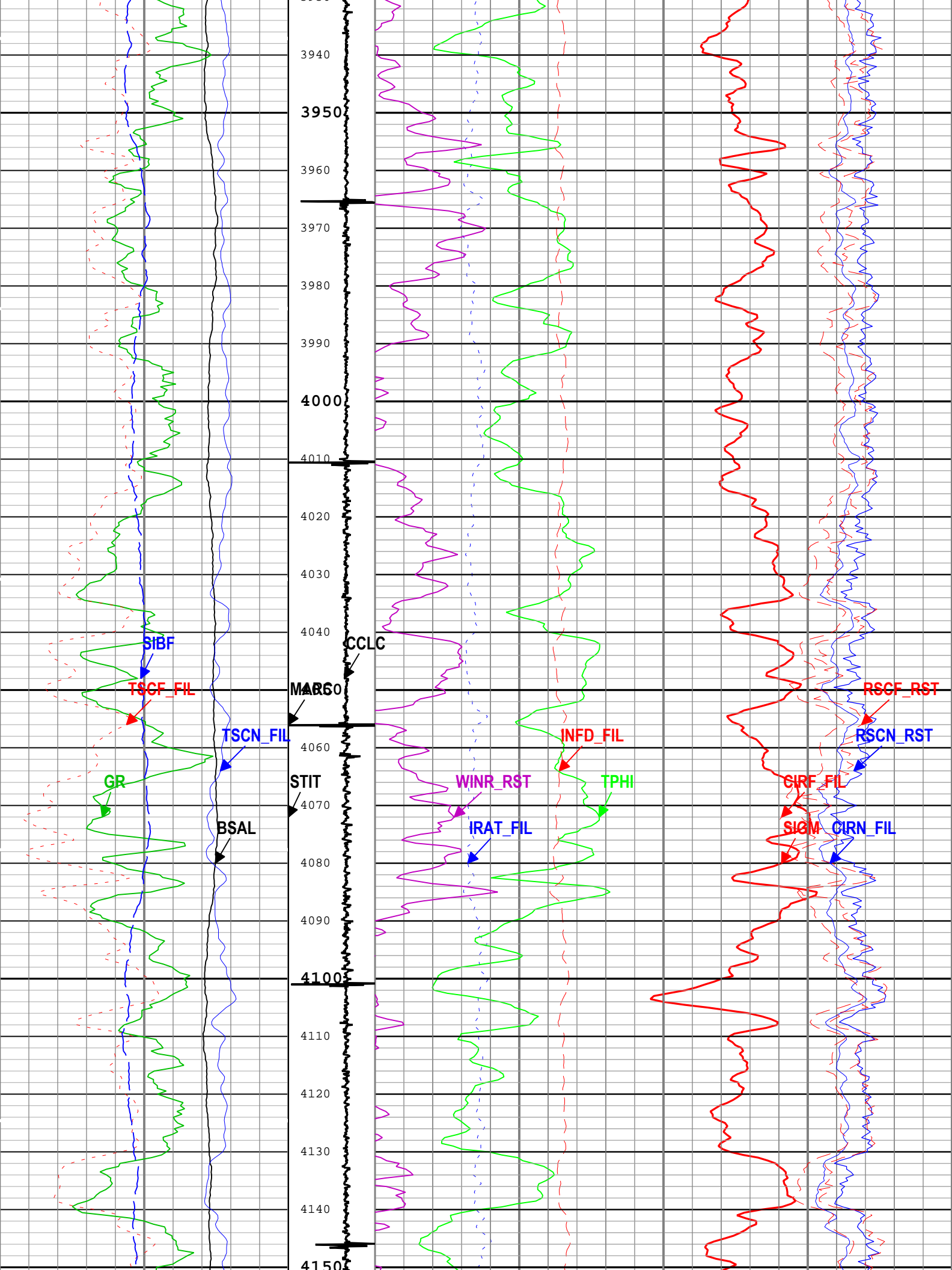


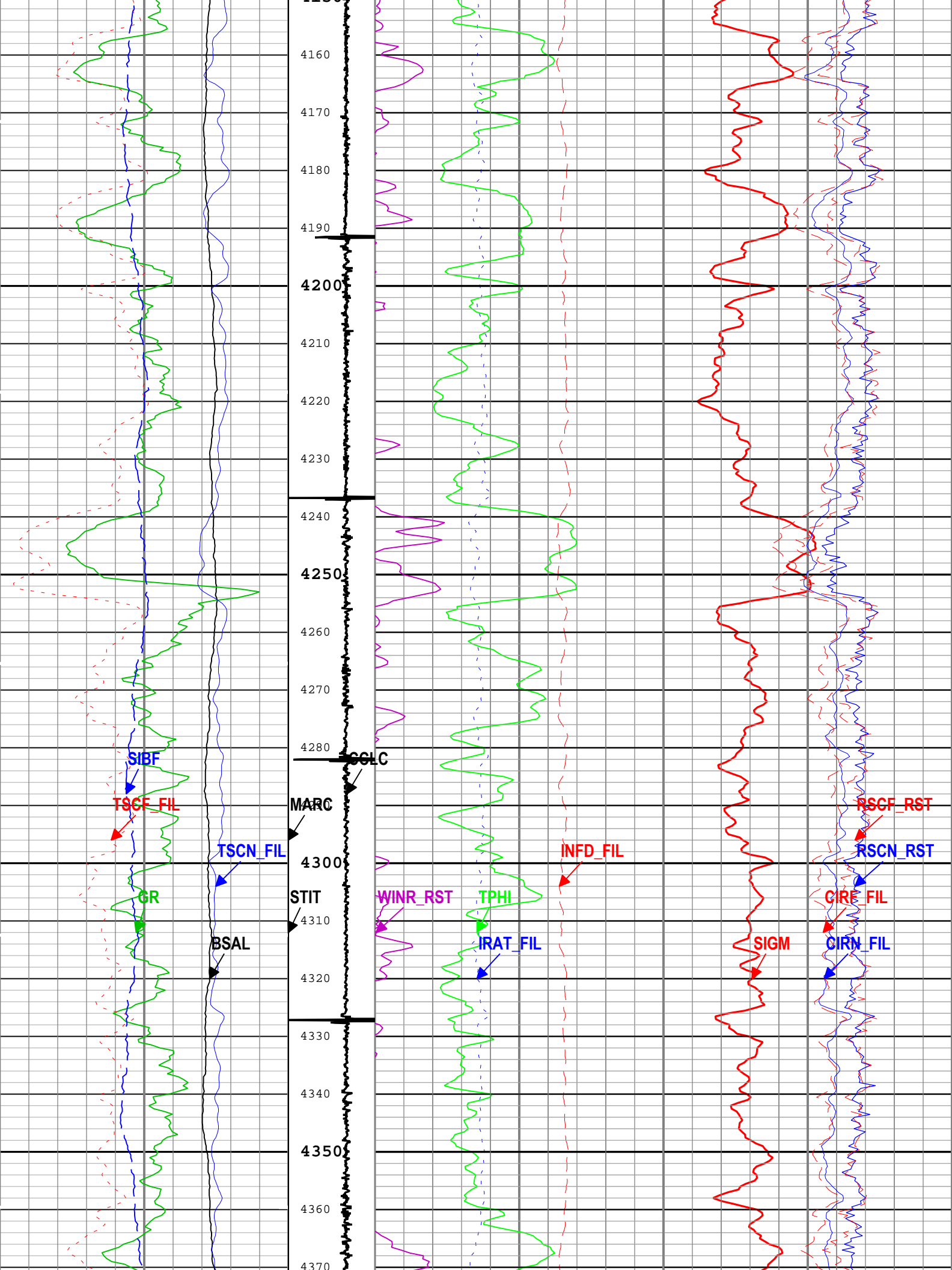


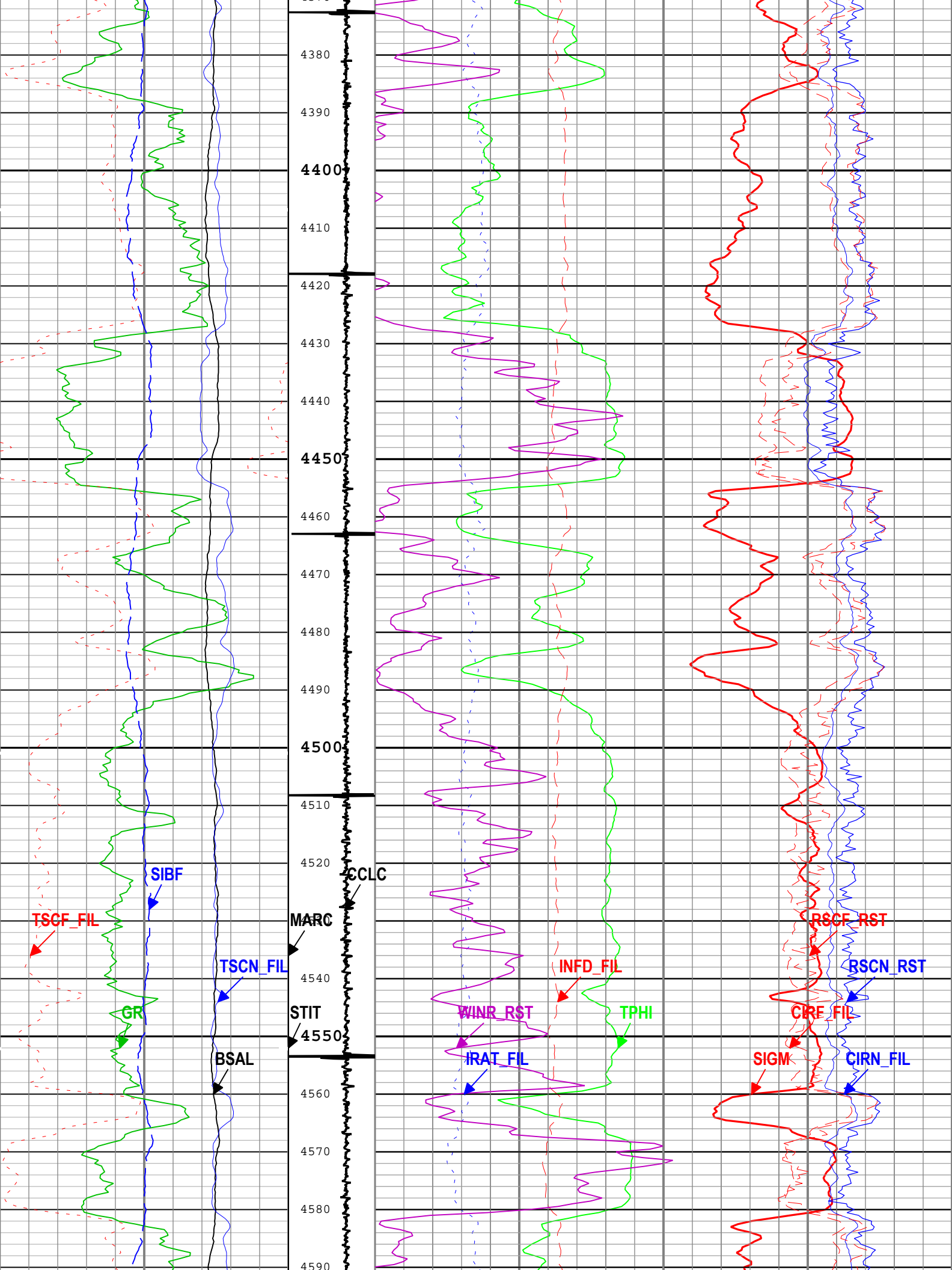


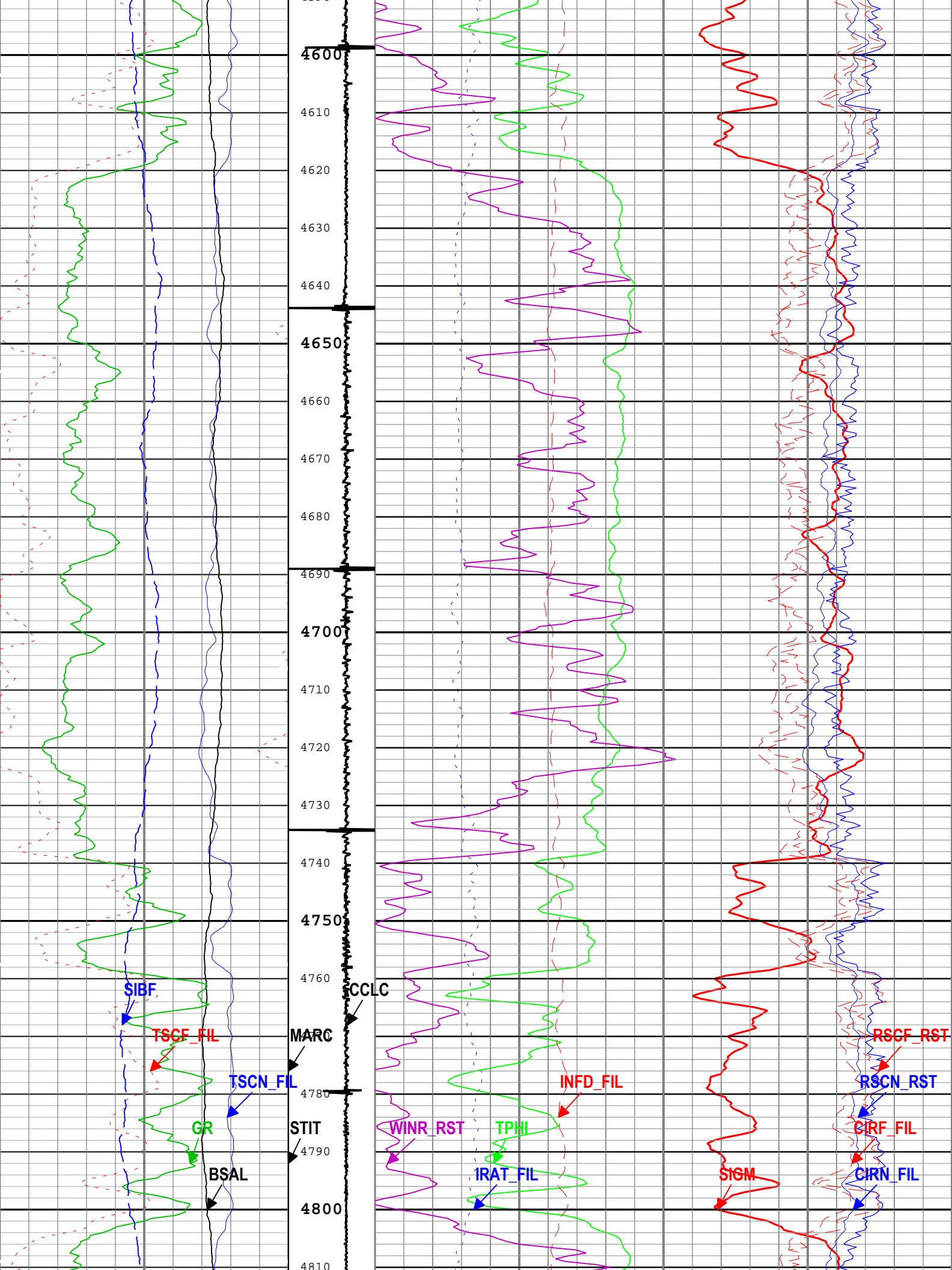


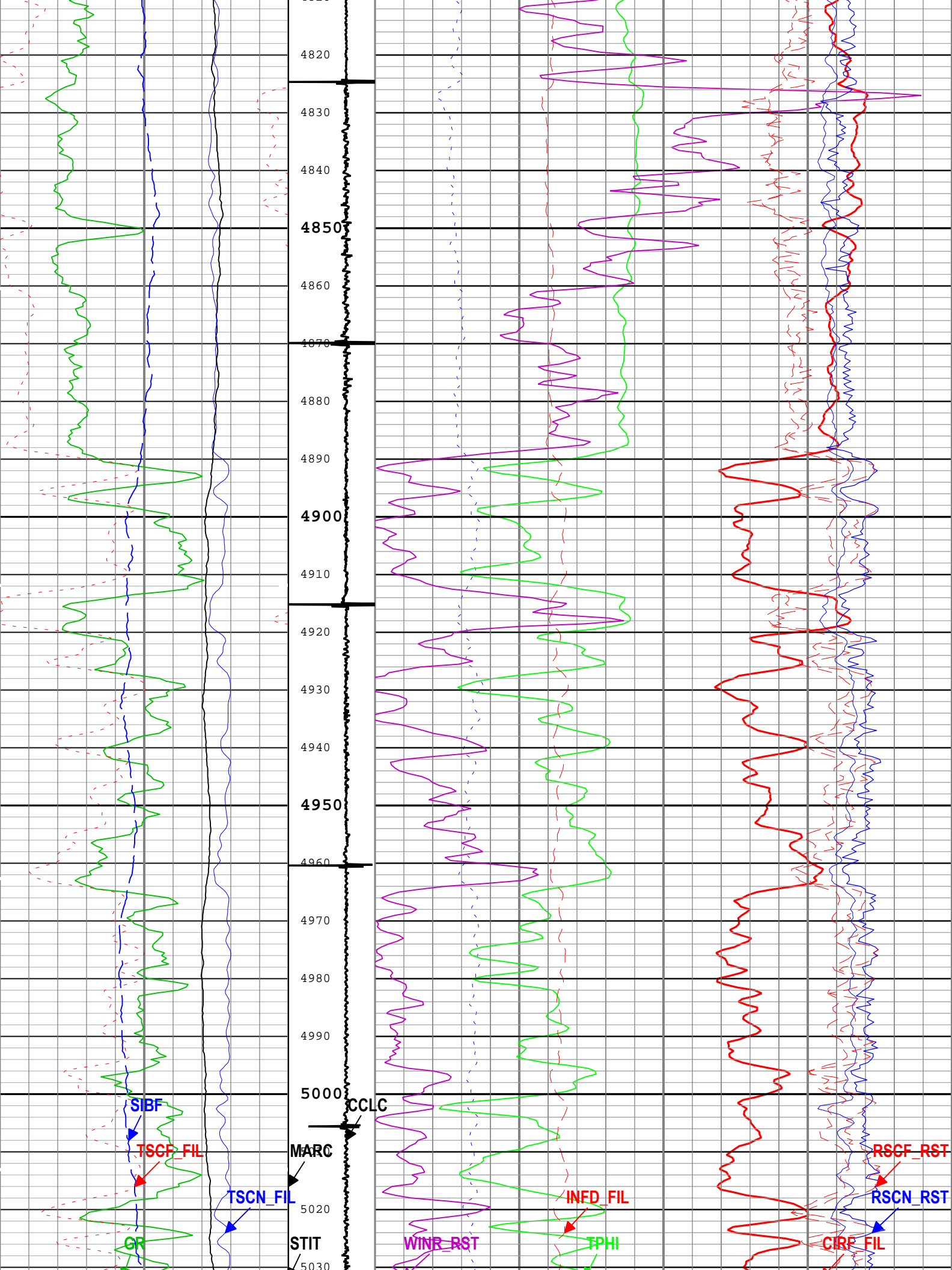


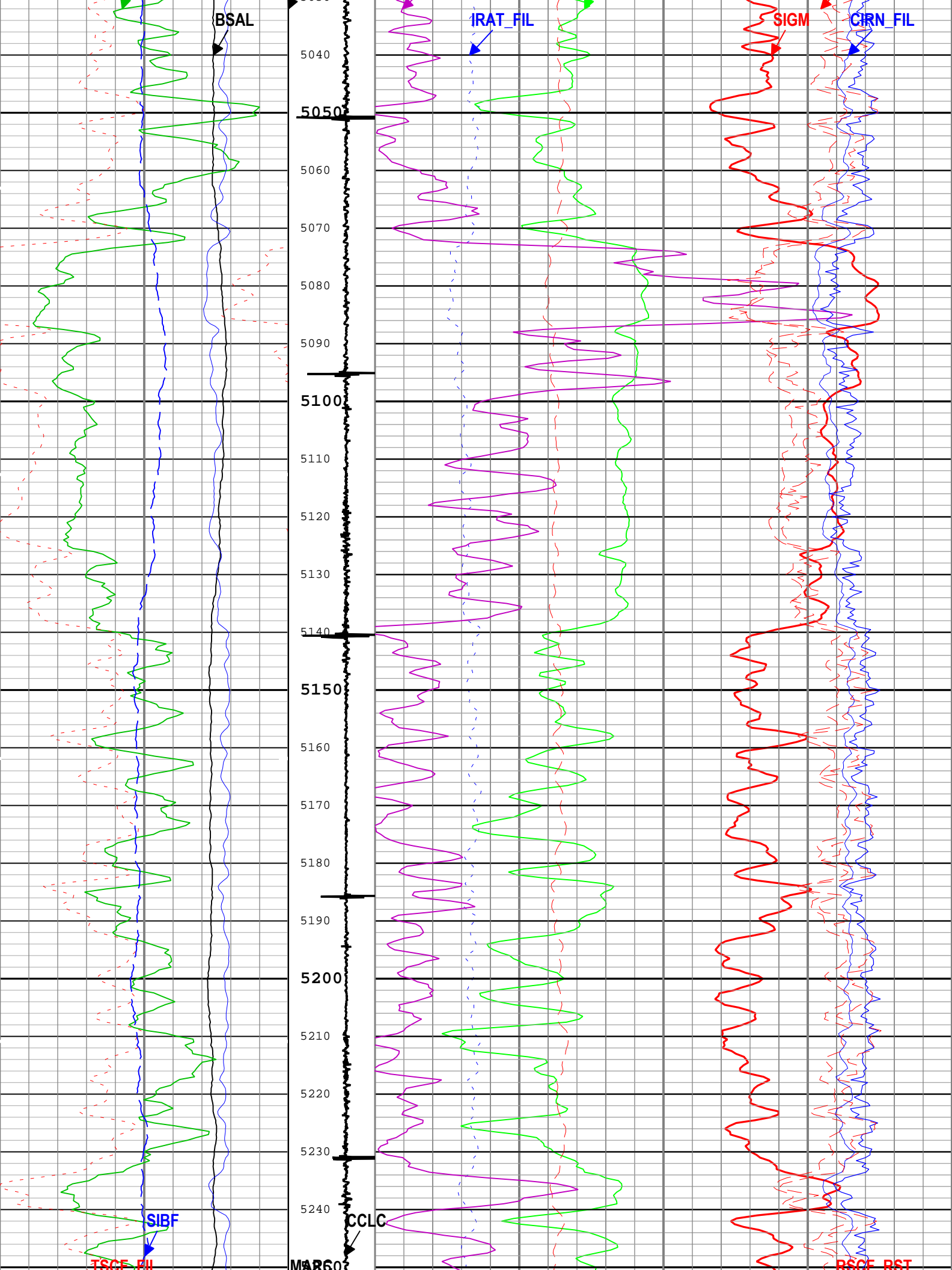


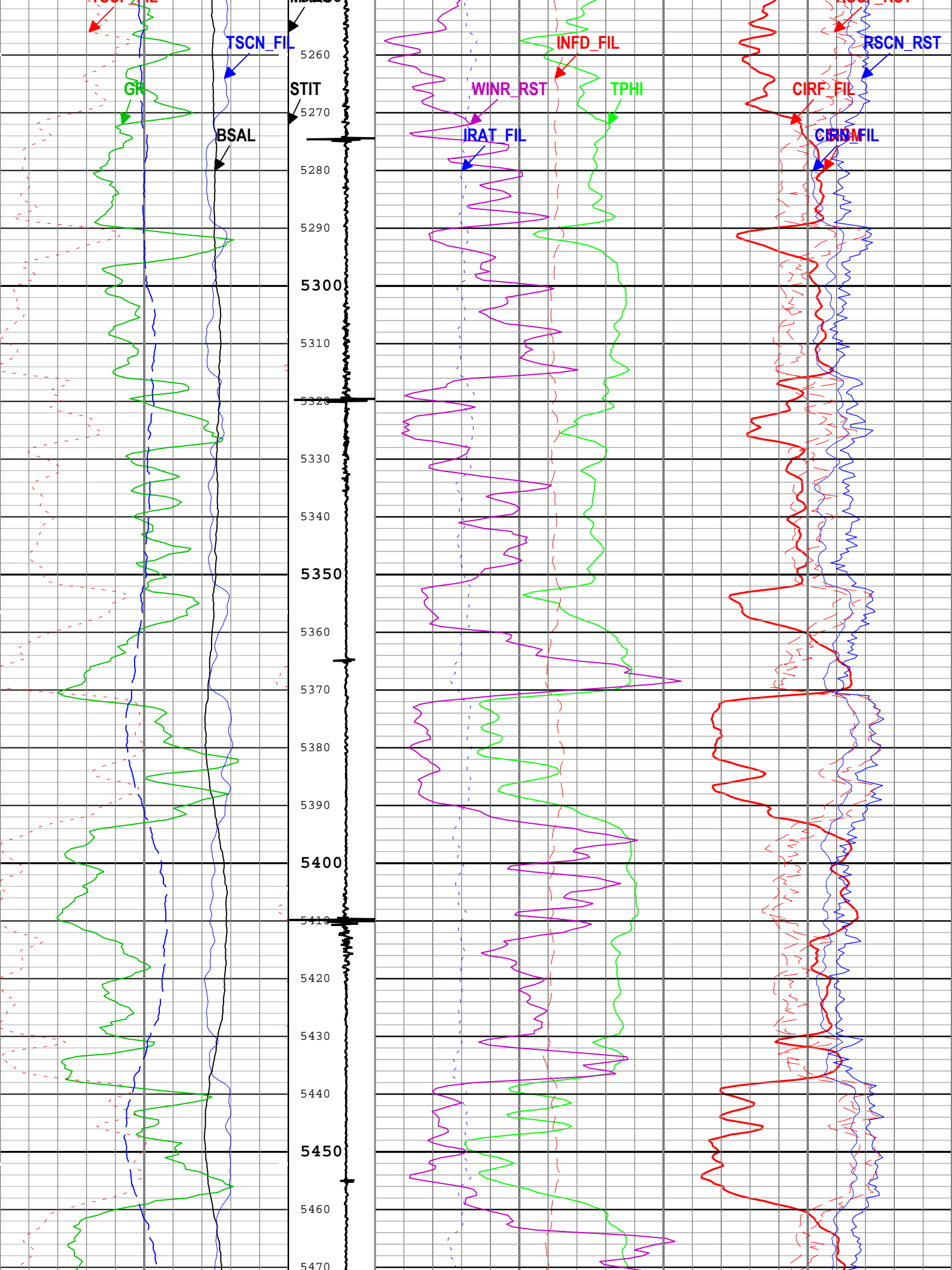


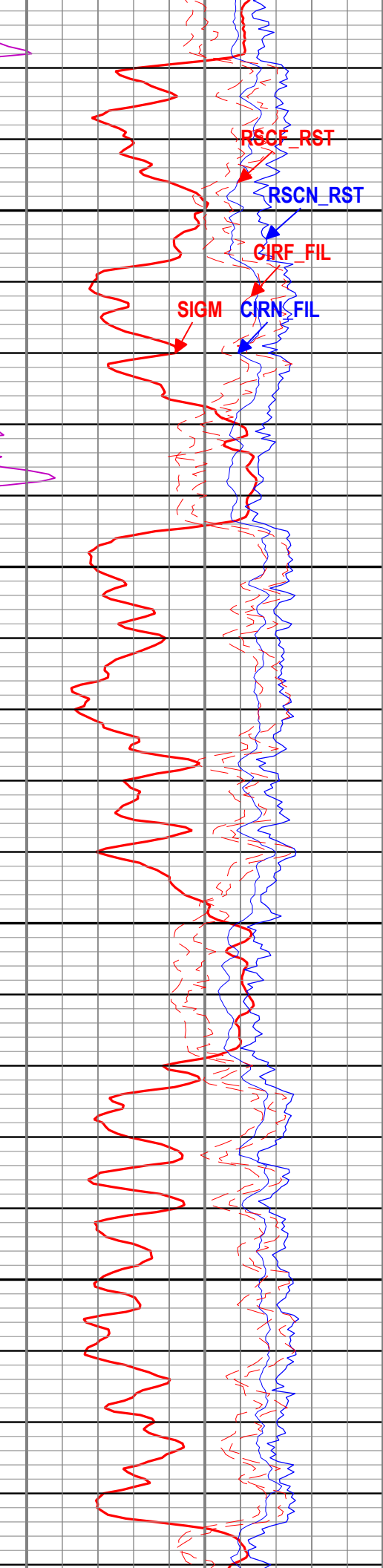
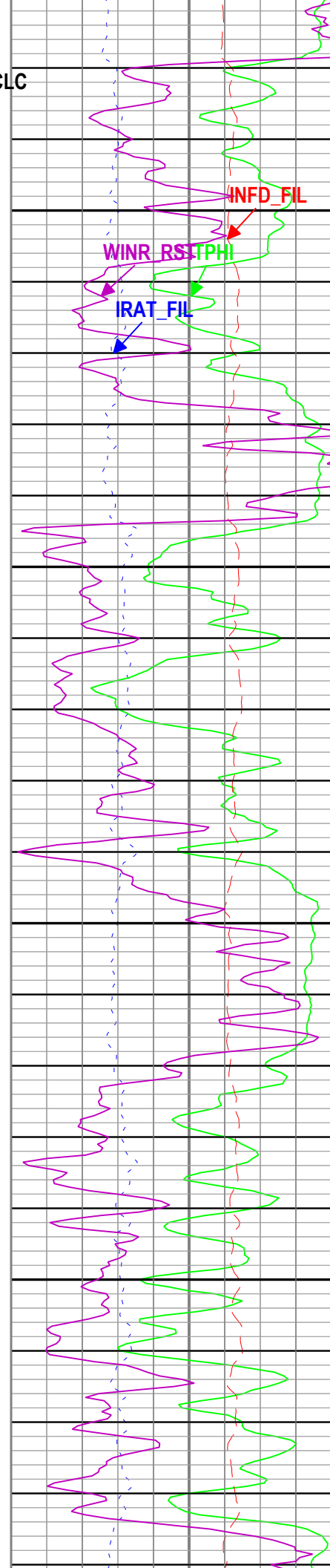
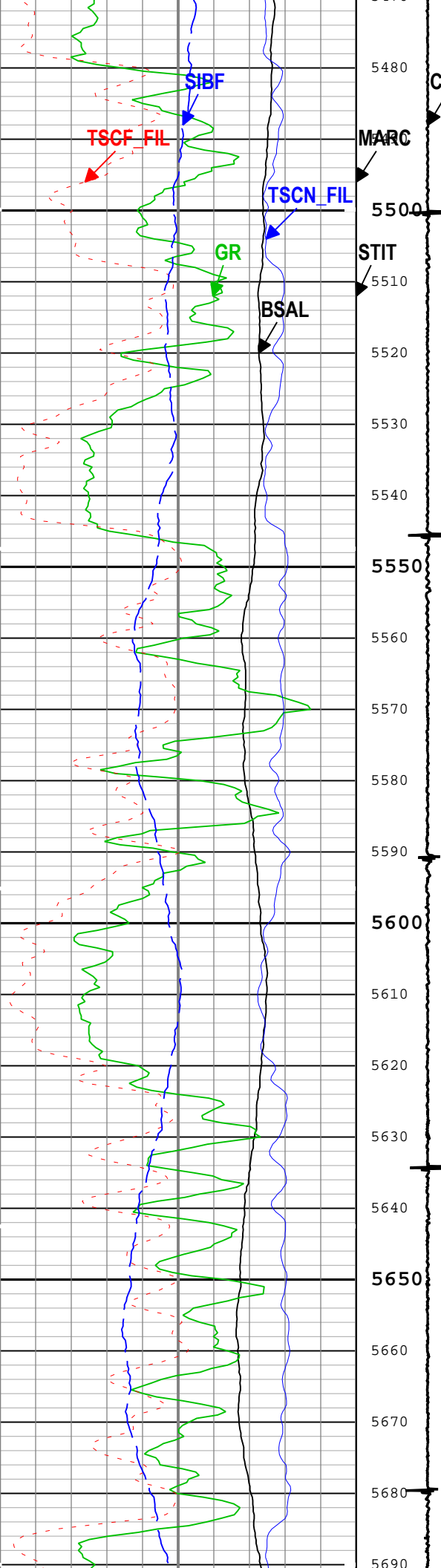


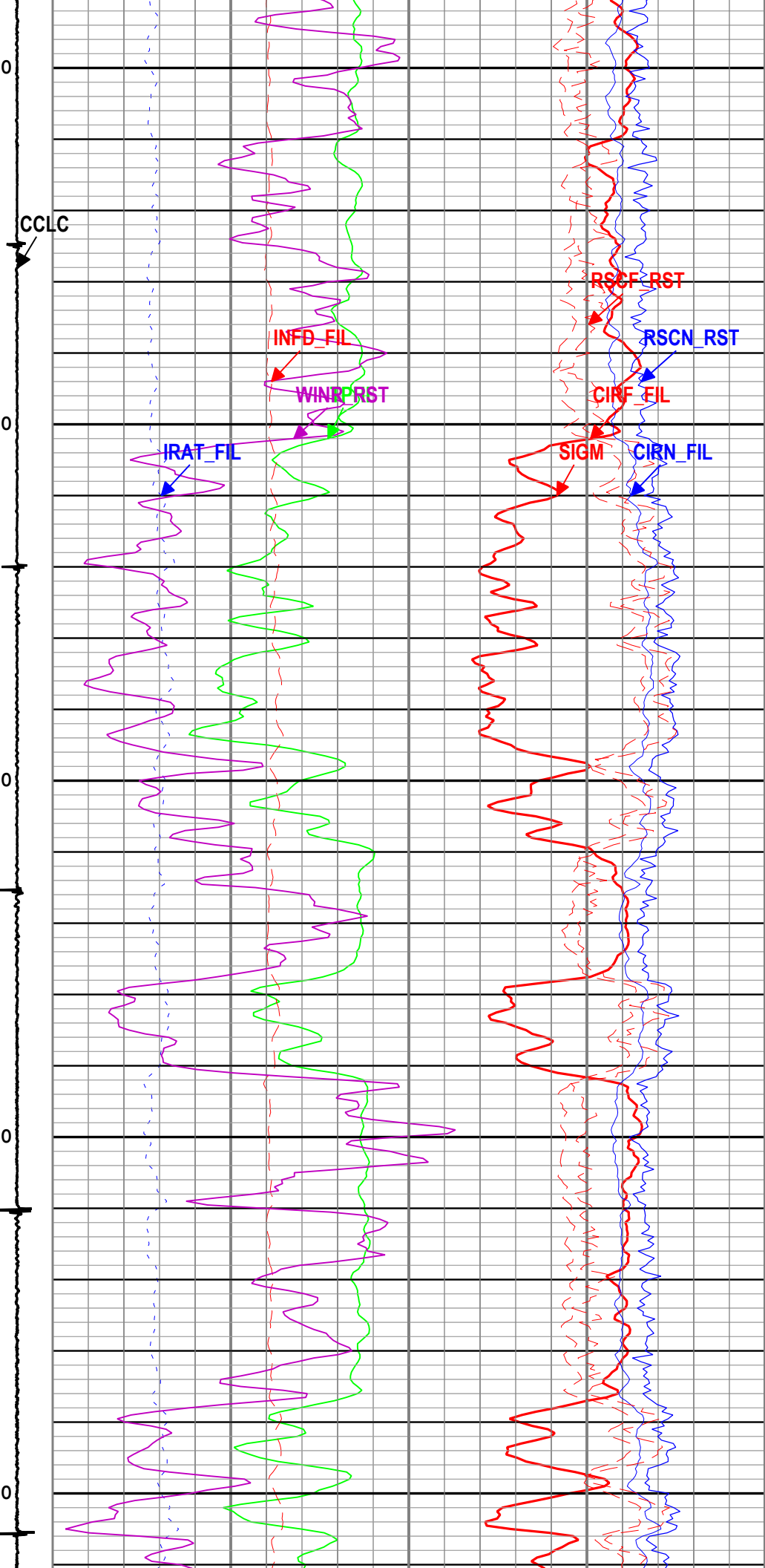
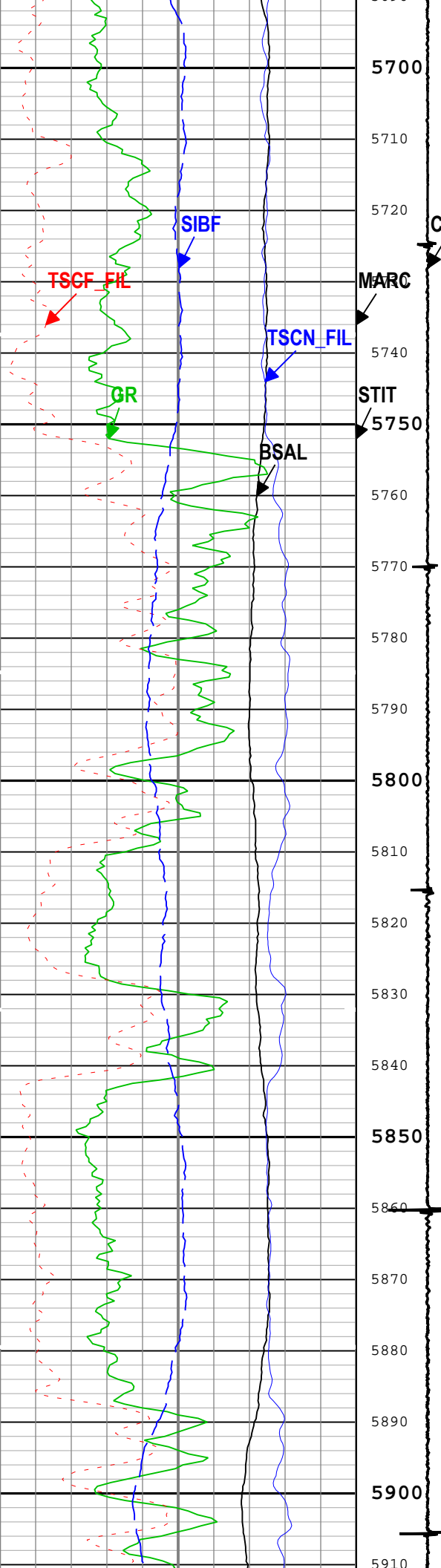


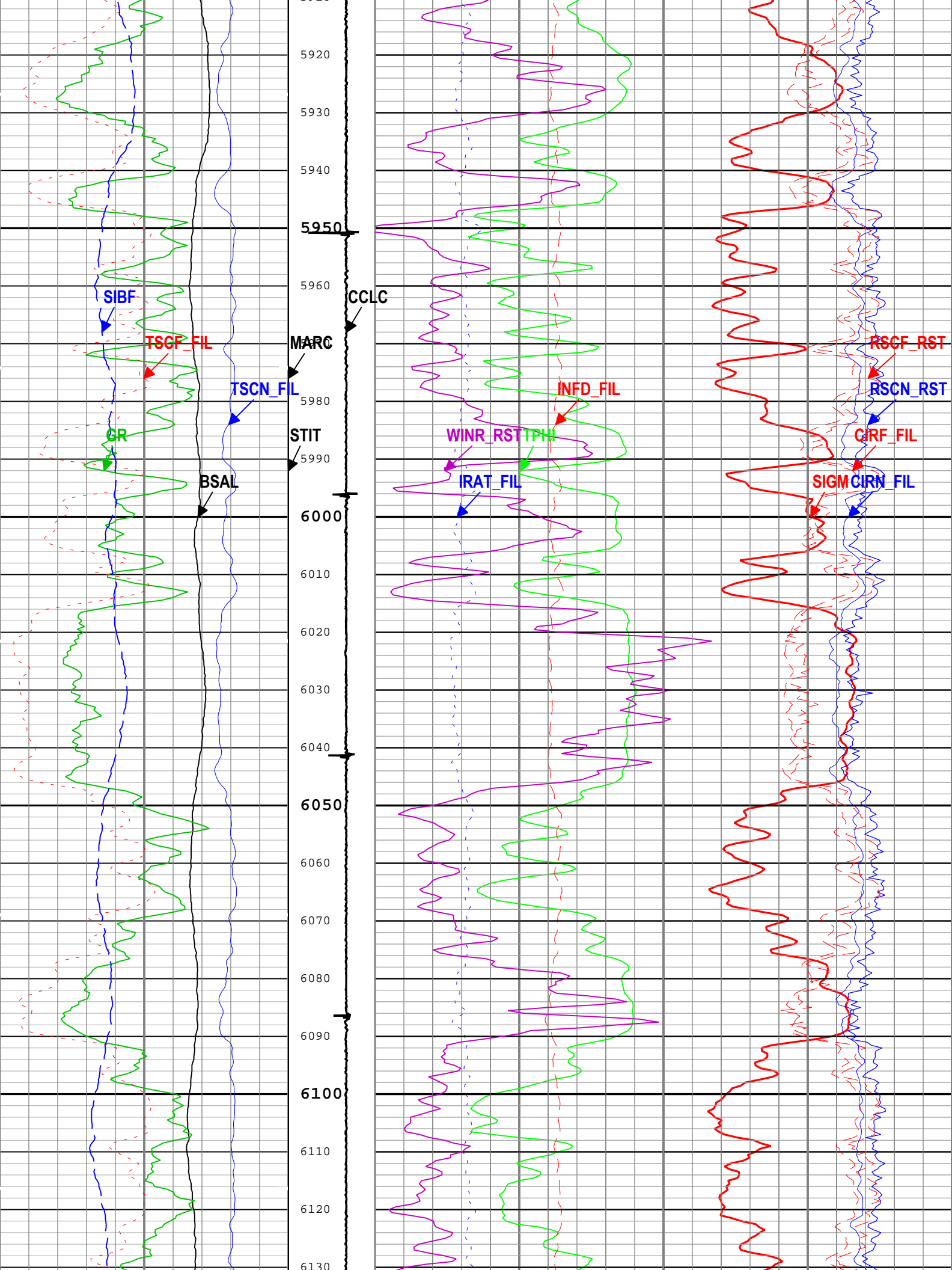


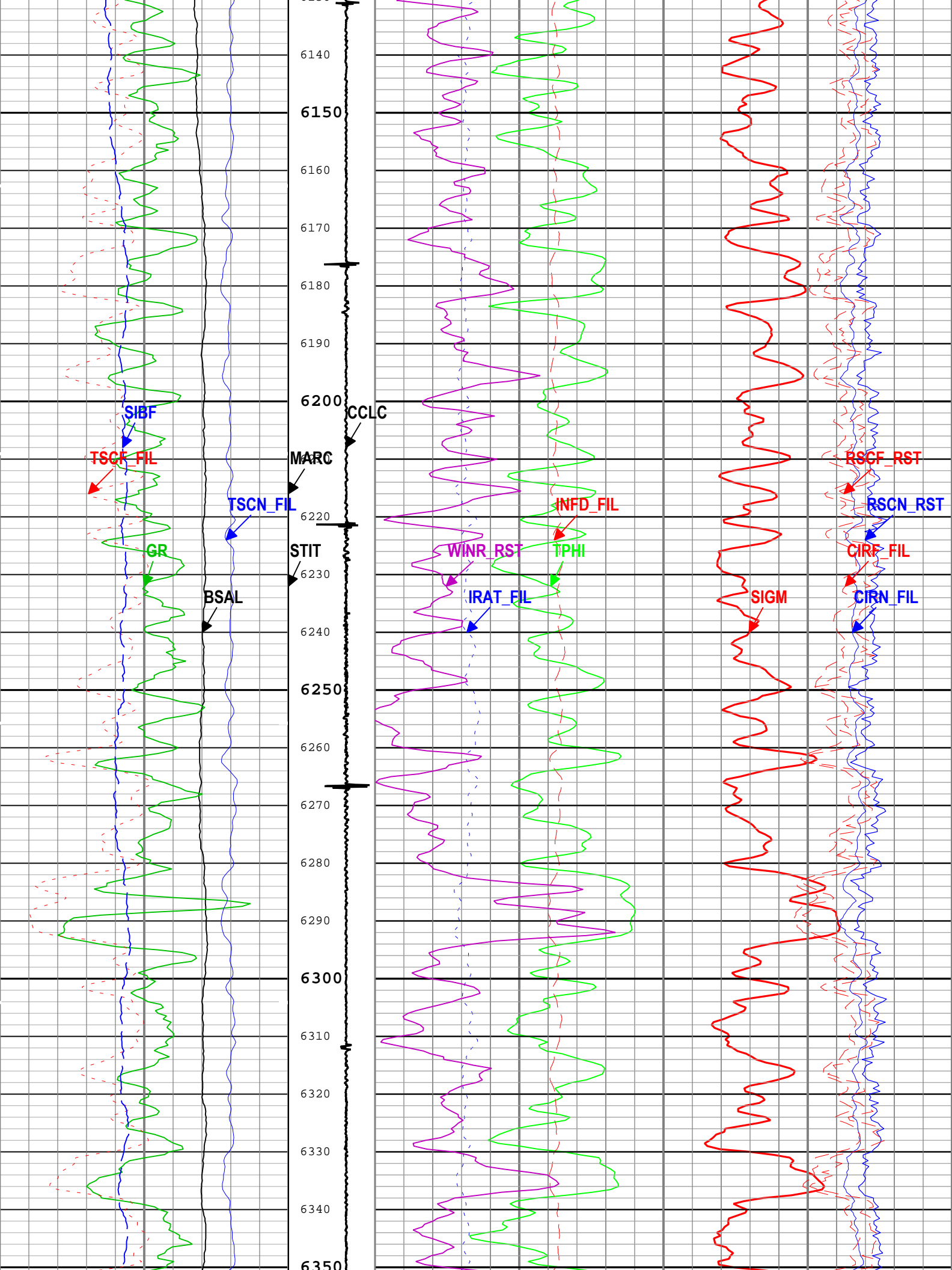


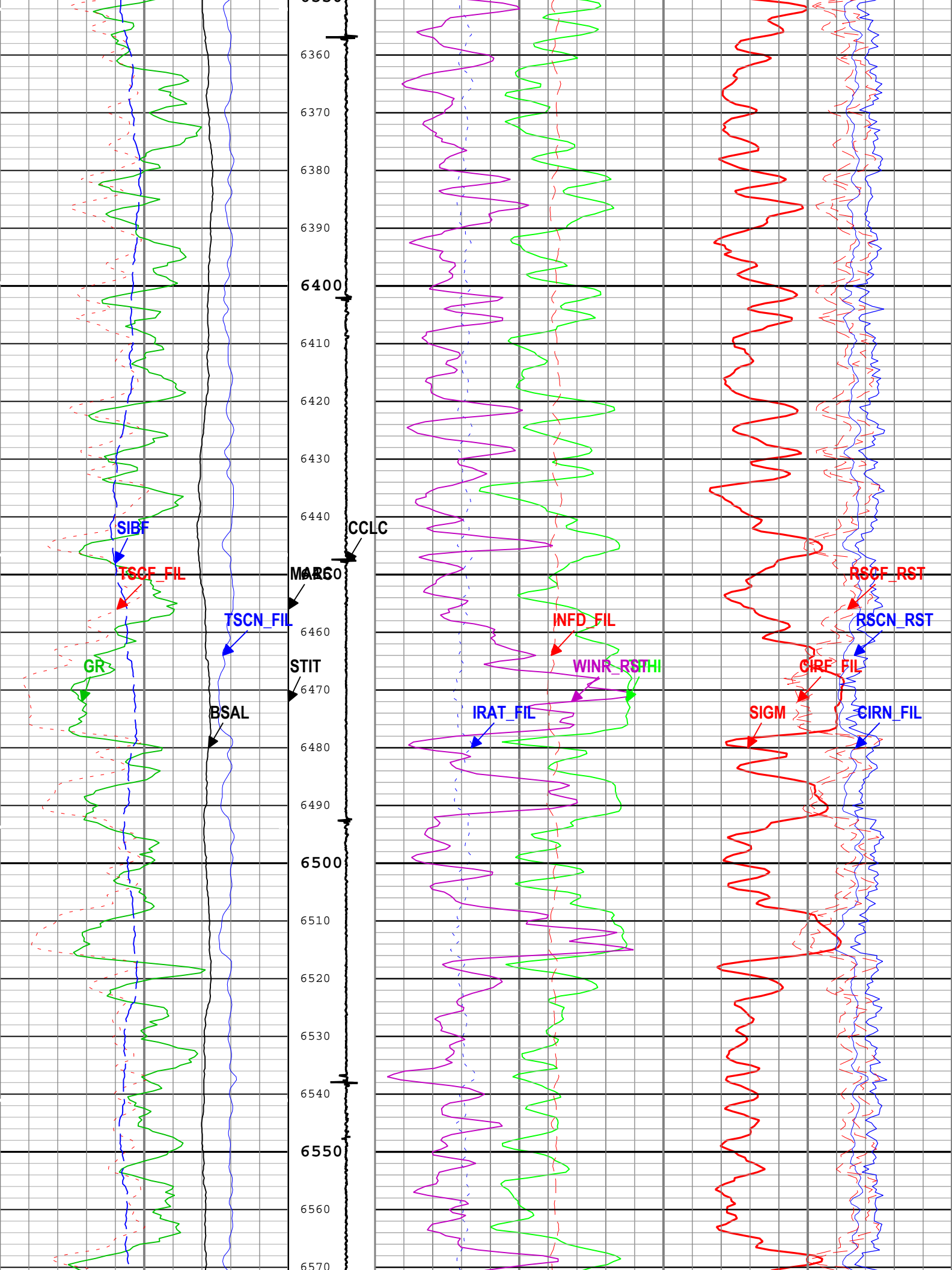


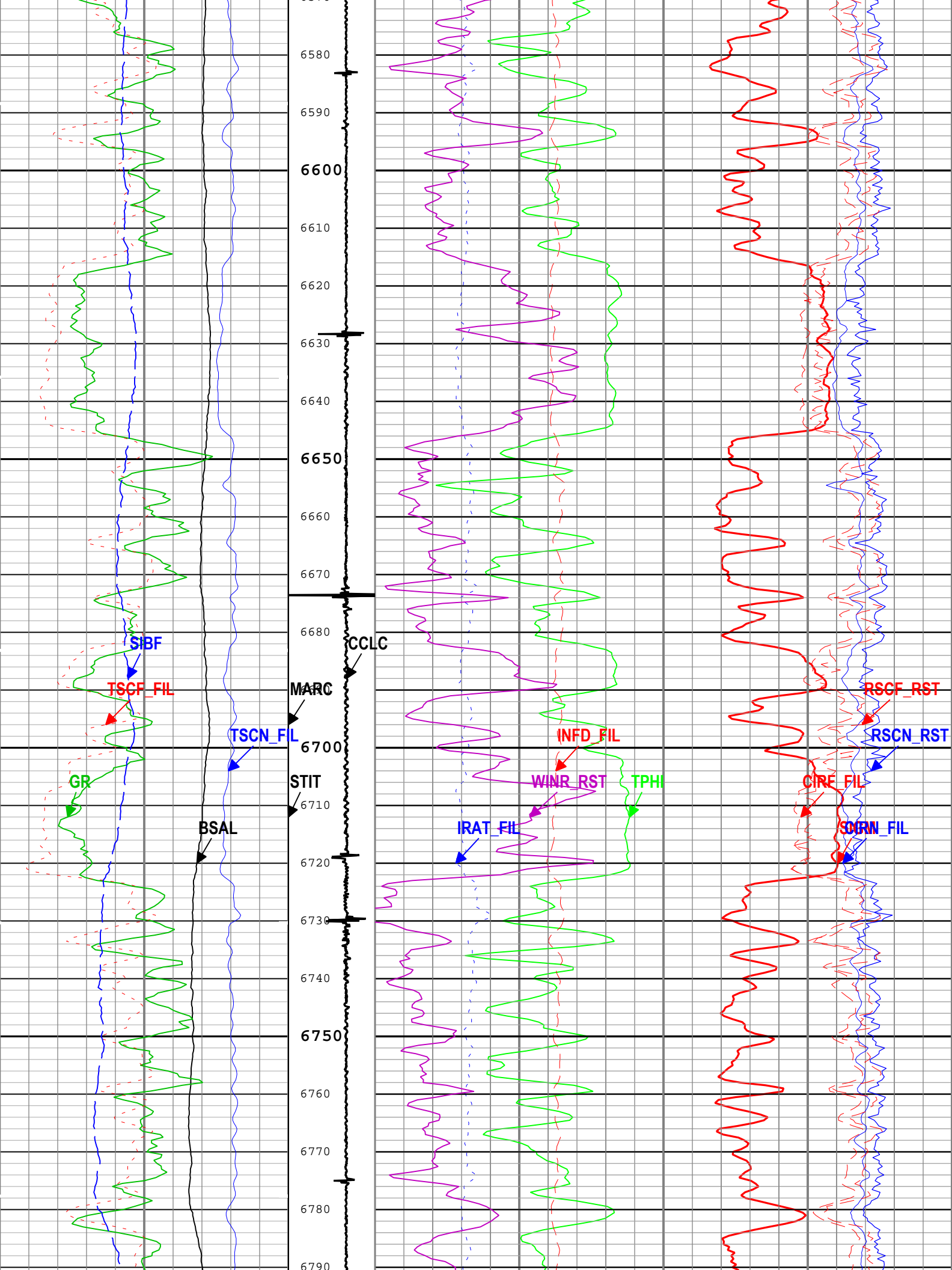


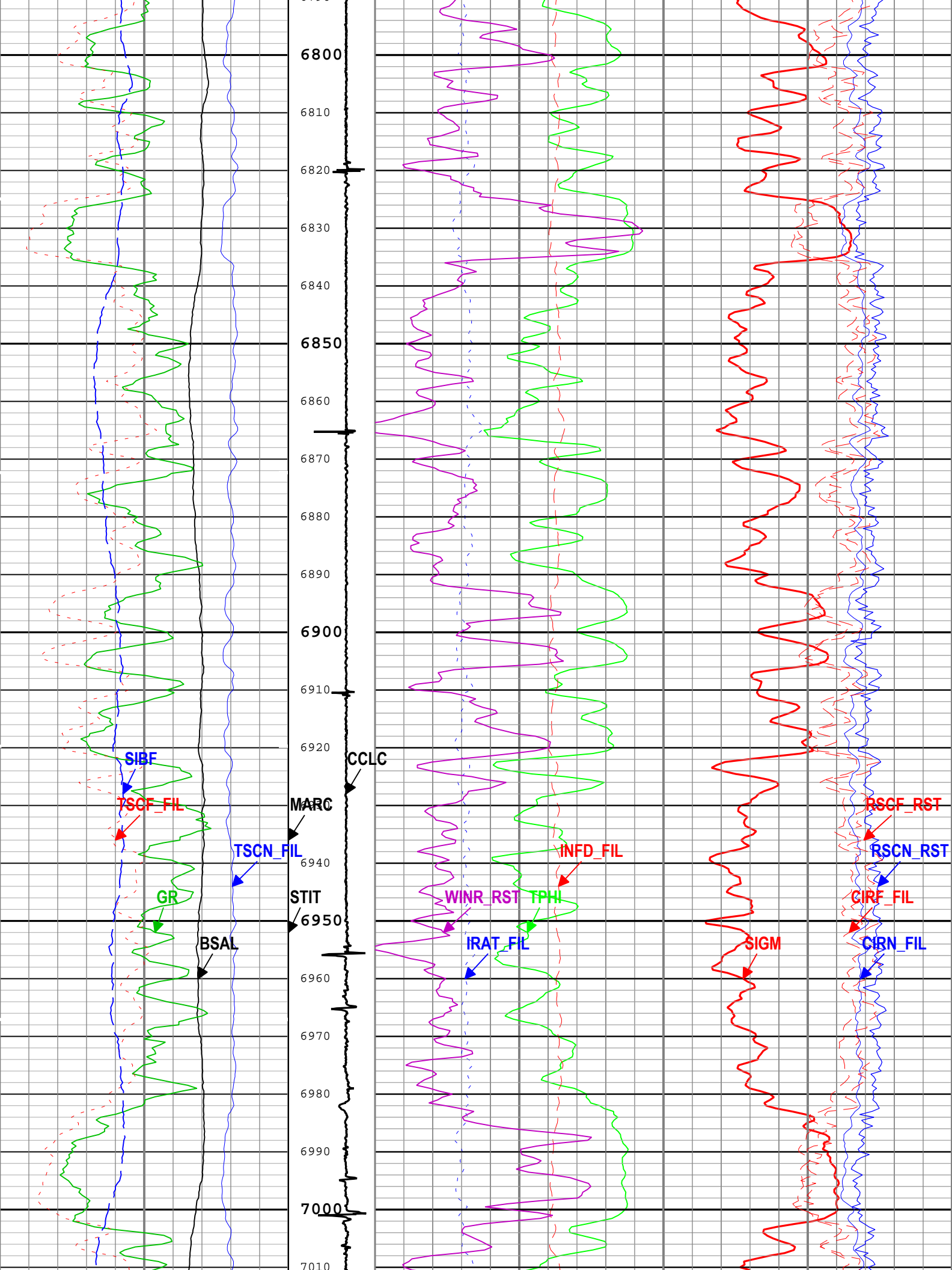


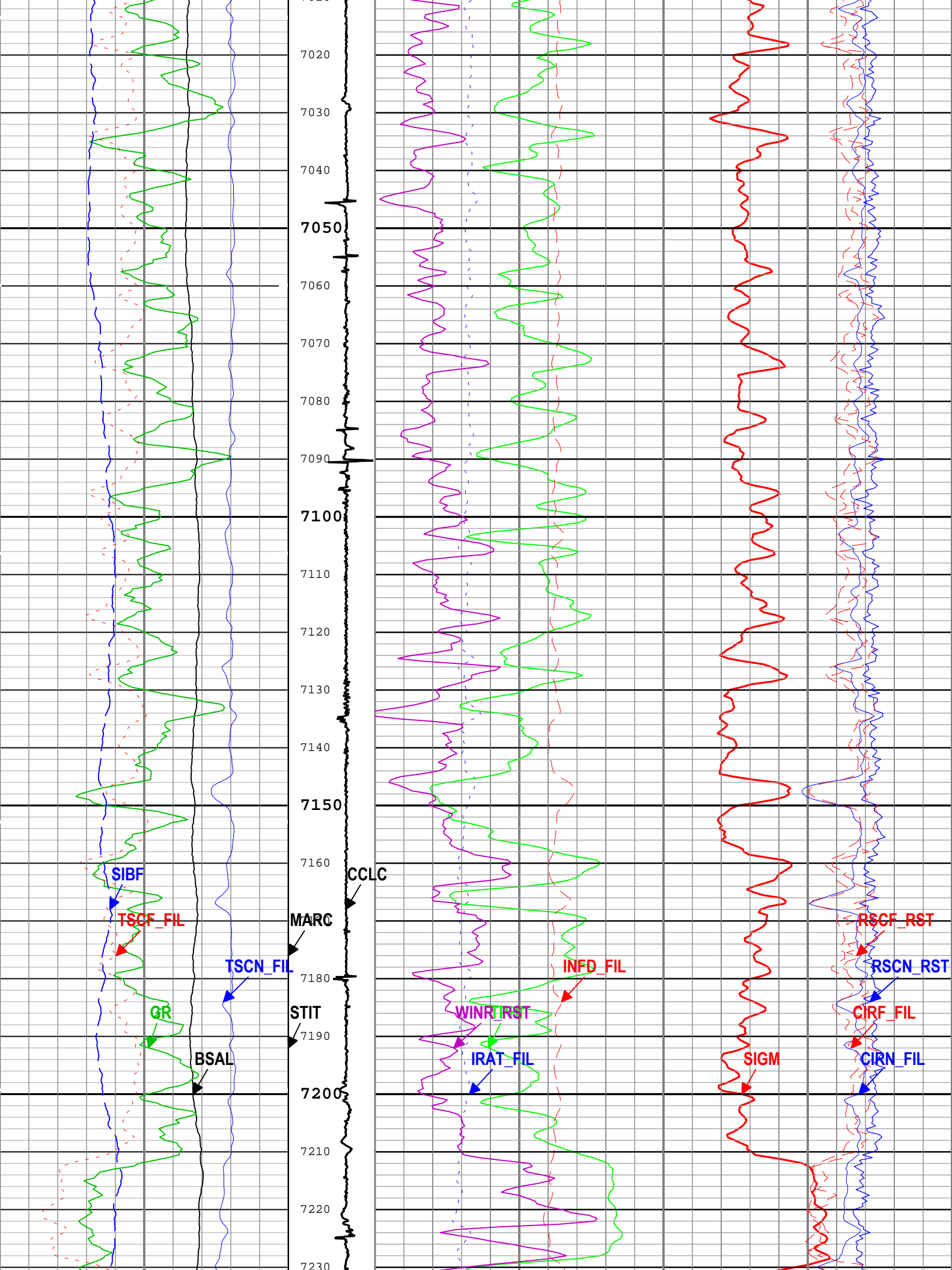


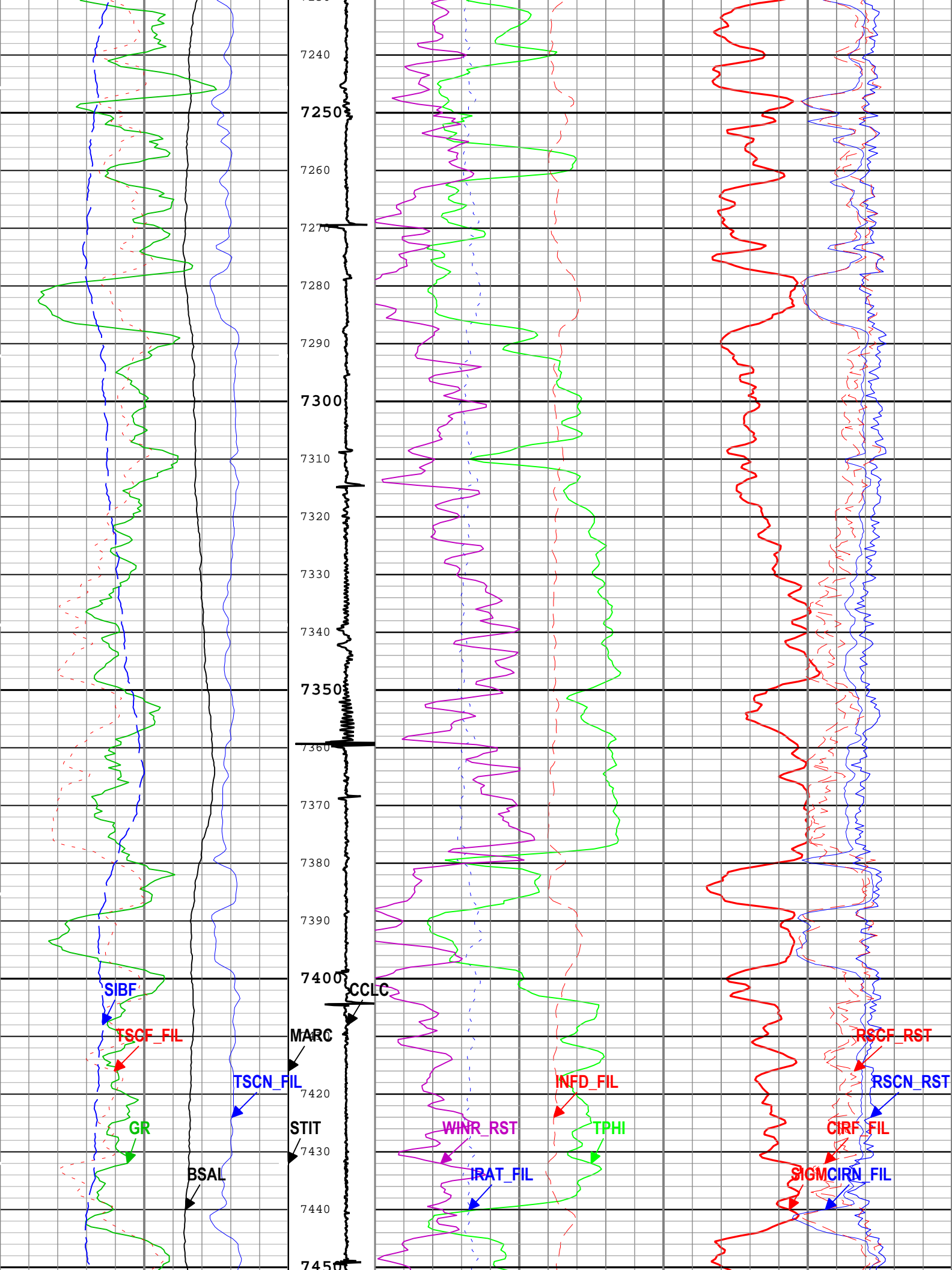


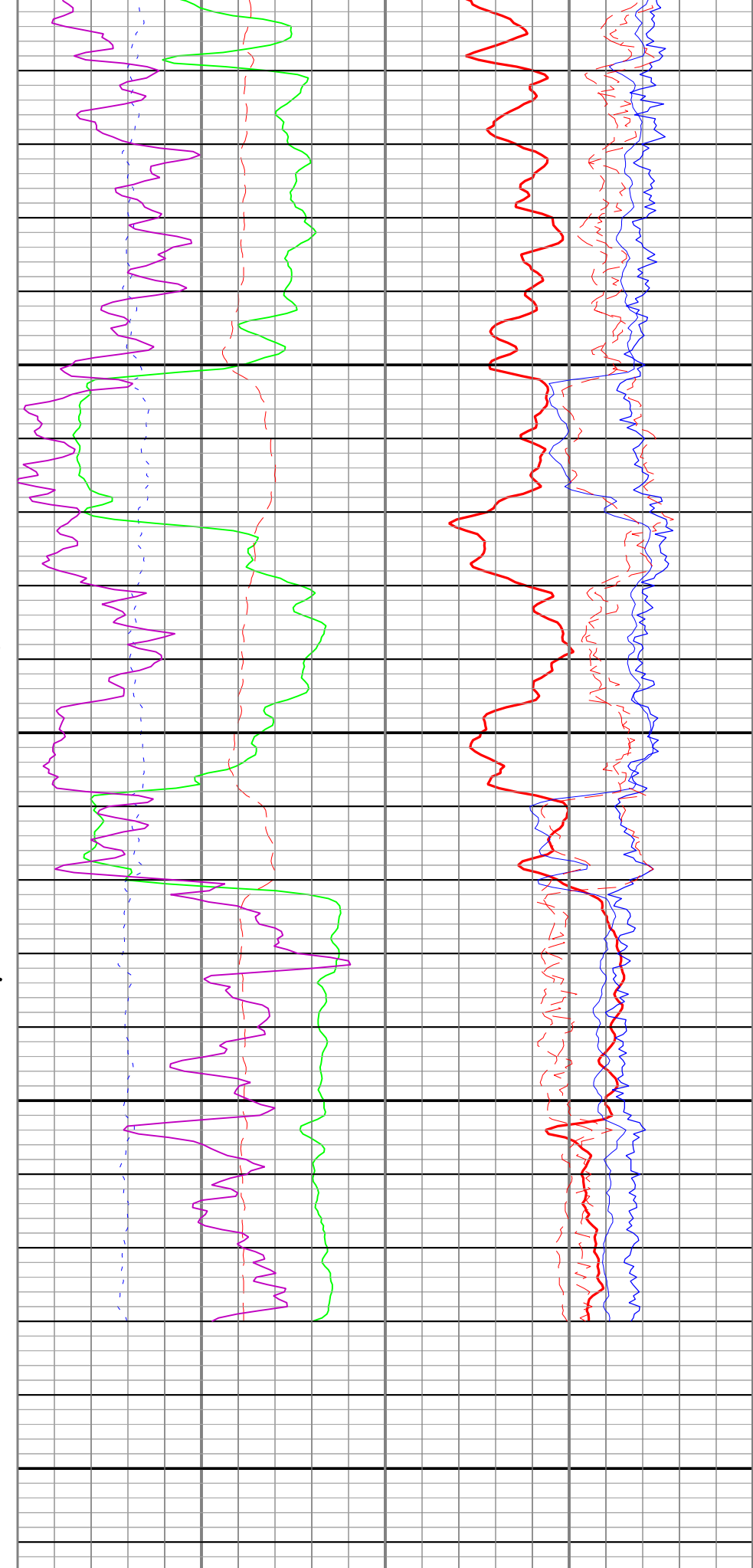
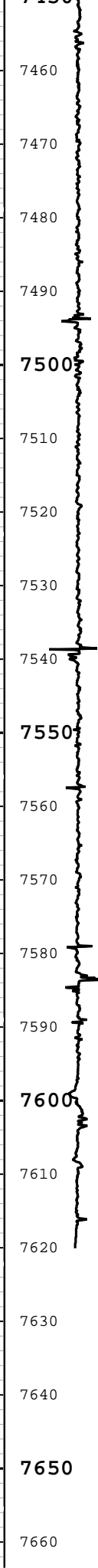












Description: RST SIGMA Answer Format: Log (Import of RST SIGMA Answer) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth				
Creation Date: 23-Jul-2017 01:09:48				

ONE: Parameters

Tool Control Parameters

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

ONE

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	487.72 ft	7663.93 ft	22-Jul-2017 9:54:31 PM	23-Jul-2017 12:26:07 AM	ON	5.47 ft	Yes
ONE	Log[5]:Up	Up	469.09 ft	813.22 ft	23-Jul-2017 12:28:53 AM	23-Jul-2017 12:36:55 AM	ON	5.47 ft	Yes

Log	Company:CAERUS OPERATING LLC	Well:Chevron 11D-17 ONE: Log[4]:Up:S002
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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)

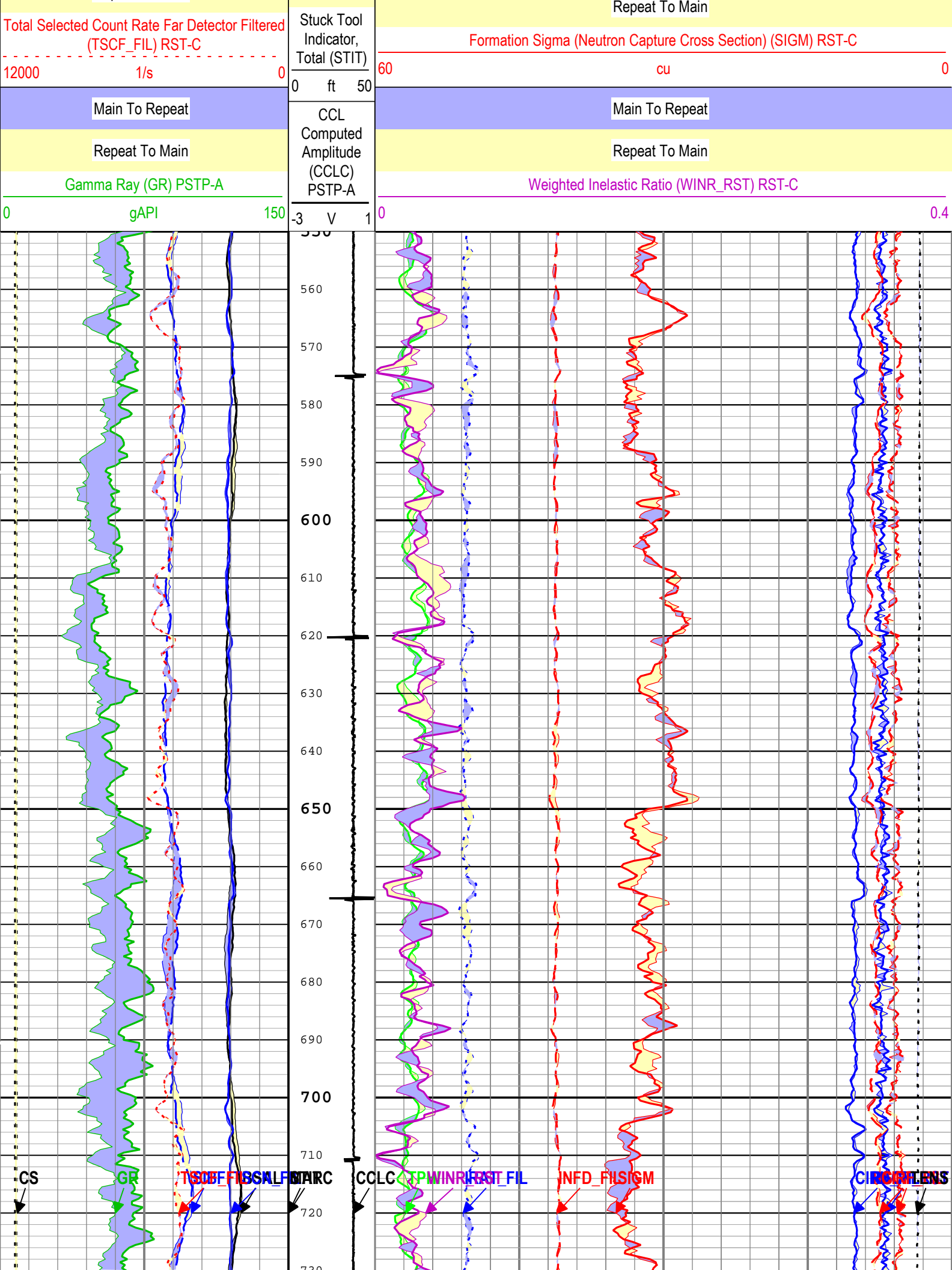
— ICV - Integrated Cement Volume every 100.00 (ft3)

Main To Repeat
Repeat To Main

Repeat To
Main

0.0	ITS/ITS	0
Main To		

Repeat



—|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 RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 23-Jul-2017 01:09:53

Company: CAERUS OPERATING LLC

Schlumberger

Well: Chevron 11D-17

Field: Grand Valley

County:	Garfield
State:	Colorado
Reservoir Saturation Tool	
Sigma	