

Company: Caerus Piceance LLC

Well: Puckett 41A-2

Field: Wildcat

County: Garfield State: Colorado

Reservoir Saturation Tool

Sigma

County:	Garfield	Location:	SHL: S2, T7S, R97W 2178' FNL 8648' FEL LAT: 39.475811 / LONG: -108.180297	Elev.: K.B. 8509.00 ft G.L. 8479.00 ft D.F. 8509.00 ft
Field:	Wildcat	Permanent Datum:	Ground Level	Elev.: 8479.00 f
Location:	SHL: S2, T7S, R97W	Log Measured From:	Kelly Bushing	30.00 ft above Perm.Datum
Well:	Puckett 41A-2	Drilling Measured From:	Kelly Bushing	
Company:	Caerus Piceance LLC	API Serial No.	Section: 2	Township: 7S Range: 97W
Logging Date	22-Jul-2015			

Run Number	ONE		
Depth Driller	9165.00 ft		
Schlumberger Depth	9096.00 ft		
Bottom Log Interval	9090.00 ft		
Top Log Interval	2500.00 ft		
Casing Fluid Type	Water		
Salinity			
Density	9 lbm/gal		
Fluid Level	8.00 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.75 in		
From	2520.00 ft		
To	9165.00 ft		
Casing/Tubing Size	4.5 in		
Weight	11.6 lbm/ft		
Grade	P110		
From	0.00 ft		
To	9159.00 ft		
Max Recorded Temperatures	225 degF		
Logger on Bottom	22-Jul-2015	21:15:00	
Unit Number	9108	Fort Morgan, CO	
Recorded By	Benjamin Mammon/A. Mustafa		
Witnessed By	Natalie Naeve		

Disclaimer

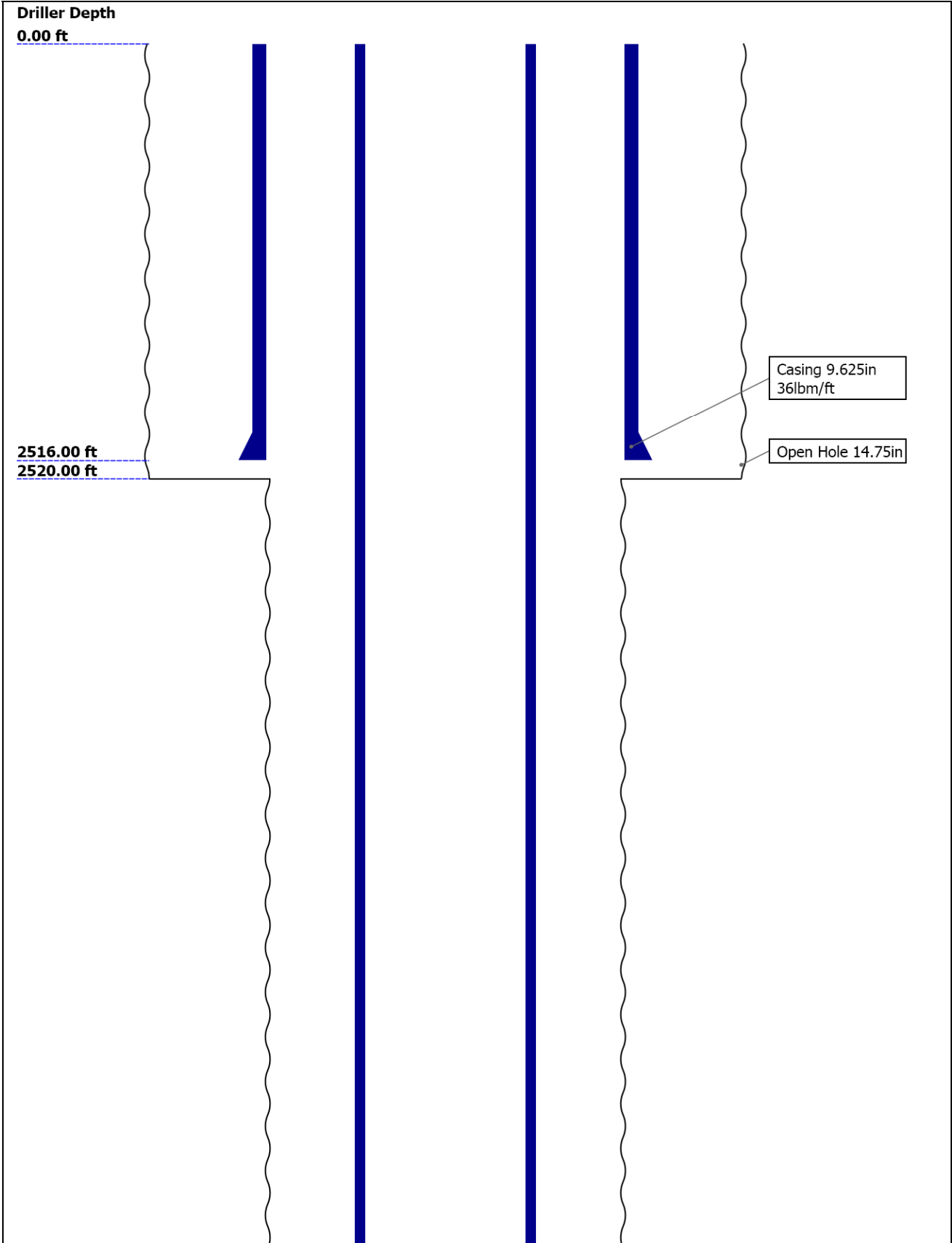
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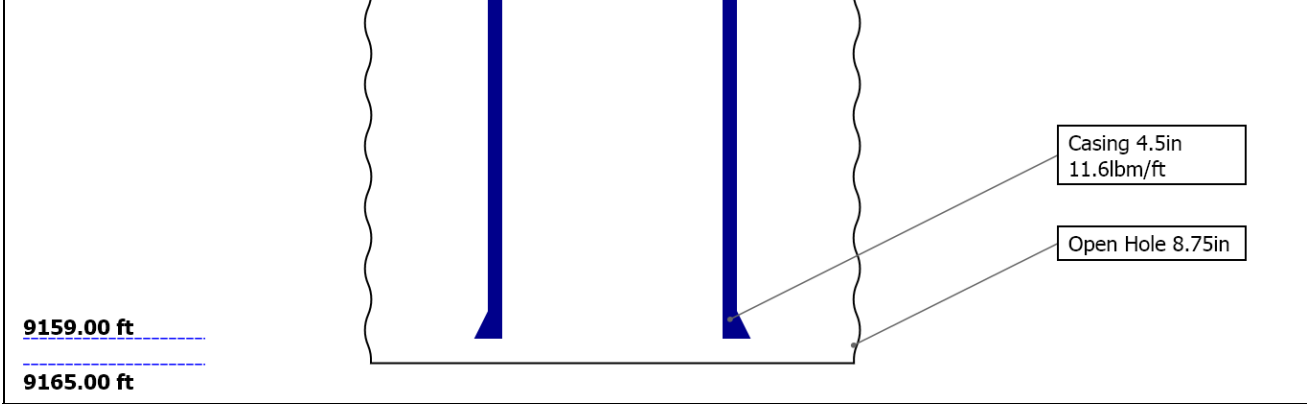
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Well Sketch



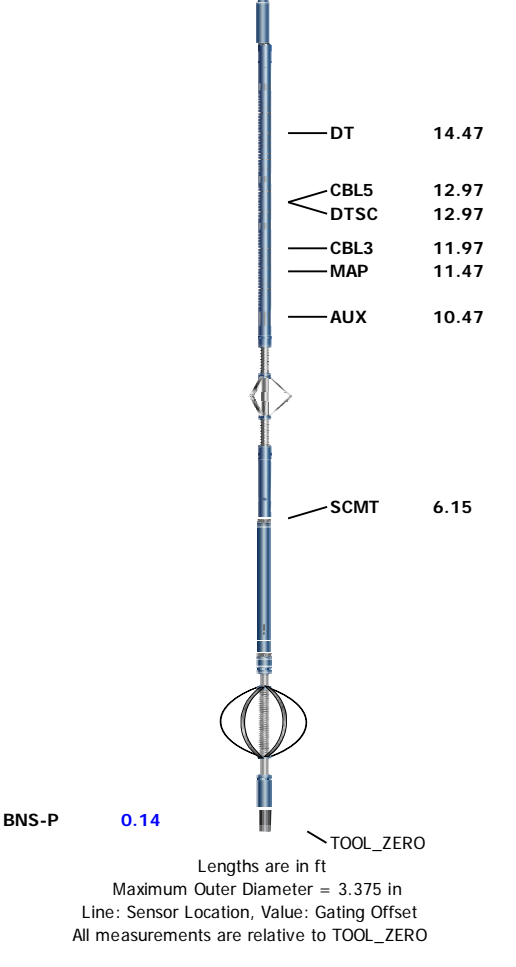


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	14.75	8.75				
Top Driller (ft)	0	2520				
Top Logger (ft)	0	2520				
Bottom Driller (ft)	2520	9165				
Bottom Logger (ft)	2520	9165				
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)	2516	9159				
Bottom Logger (ft)	2516	9159				

Operational Run Summary

Parameter (unit)	ONE					
Date Log Started	22-Jul-2015					
Time Log Started	19:07:18					
Date Log Finished						
Time Log Finished						
Top Log Interval (ft)						
Bottom Log Interval (ft)						
Total Depth (ft)						
Max Hole Deviation (deg)						
Azimuth of Max Deviation (deg)						
Bit Size (in)	8.750					
Logging Unit Number	9108					
Logging Unit Location	Fort Morgan, CO					
Recorded By	Benjamin Marmon/A.					



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	7-46A-XS		
Serial Number			
Length	21000.00 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

Maxwell 2014 SP3

Version

5.3.45427.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[3]:Up	Up	2499.07 ft	9136.16 ft	22-Jul-2015 9:02:50 PM	23-Jul-2015 12:48:38 AM	ON	8.07 ft	No

All depths are referenced to toolstring zero

Log

Company:Caerus Piceance LLC

Well:Puckett 41A-2

ONE: Log[3]:Up:S005

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: 23-Jul-2015 01:21:02

TIME_1900 - Time Marked every 60.00 (s)

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

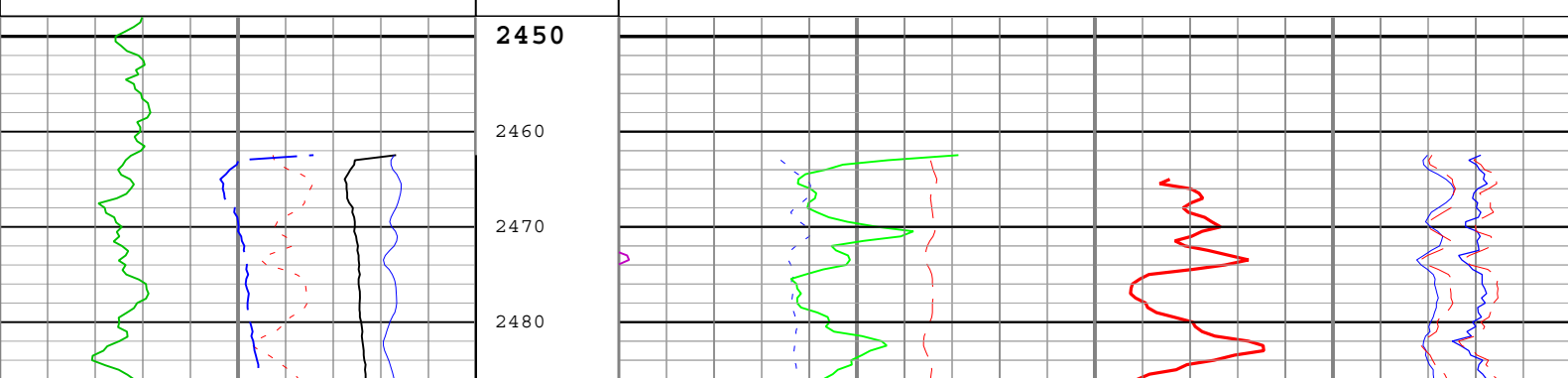
IHV - Integrated Hole Volume every 10.00 (ft3)

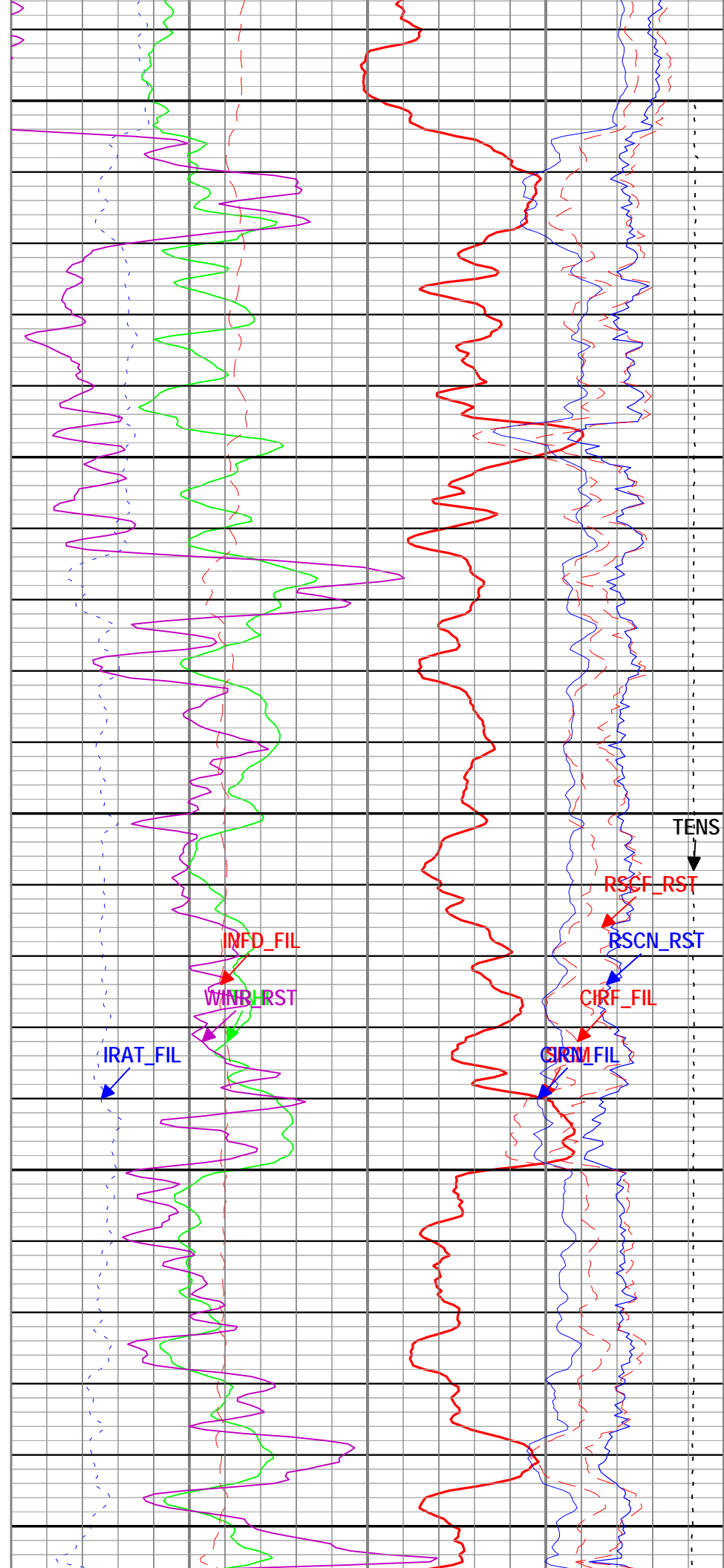
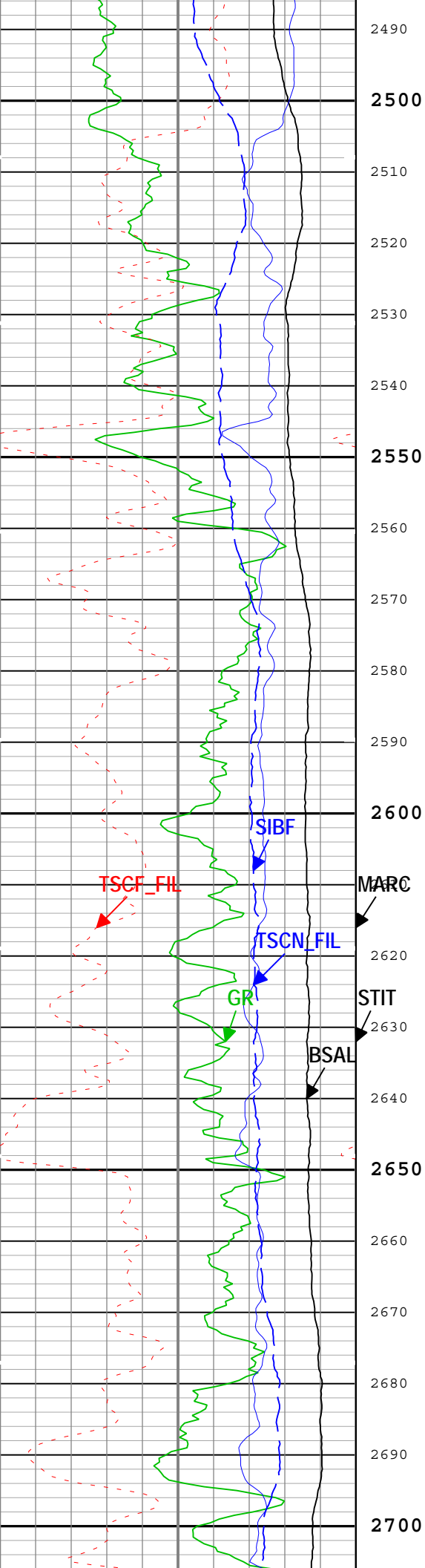
IHV - Integrated Hole Volume every 100.00 (ft3)

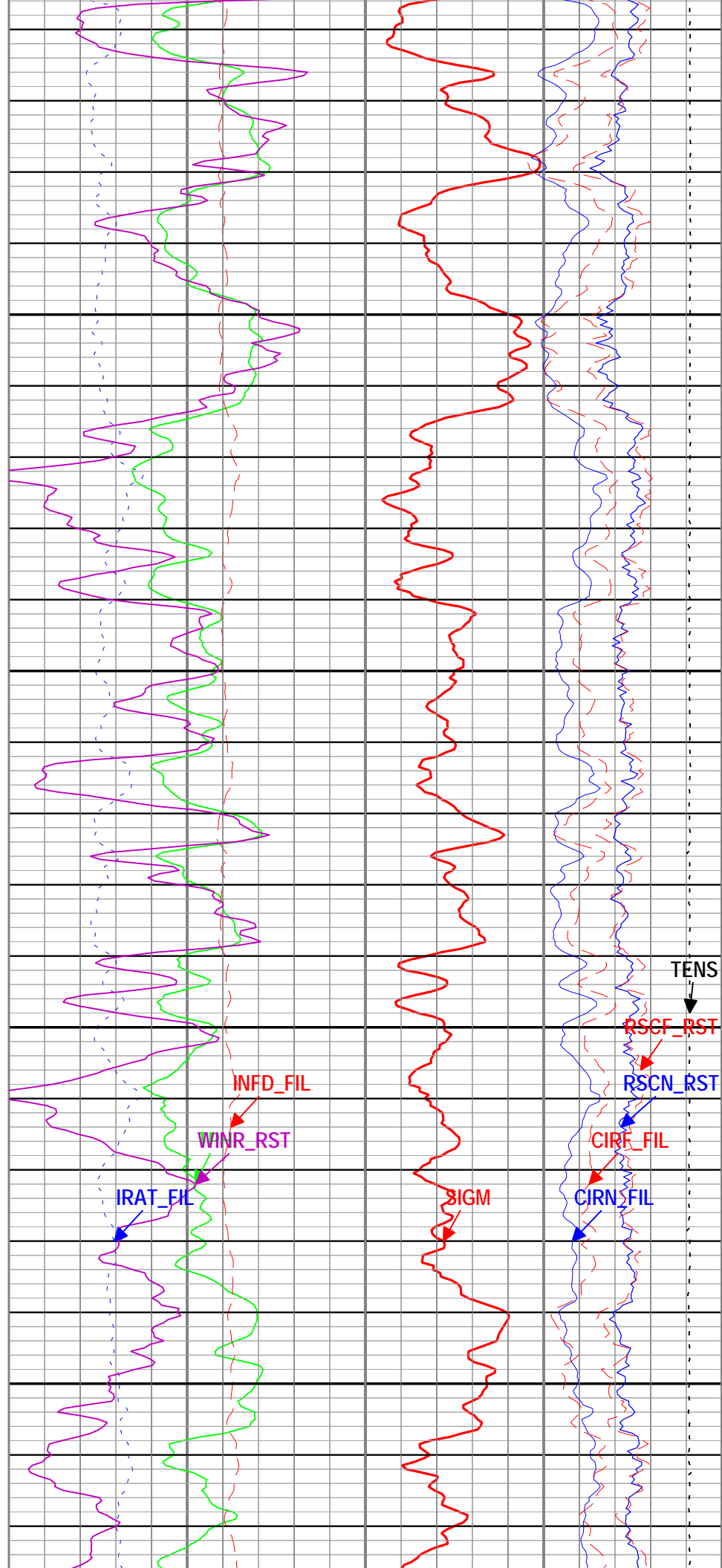
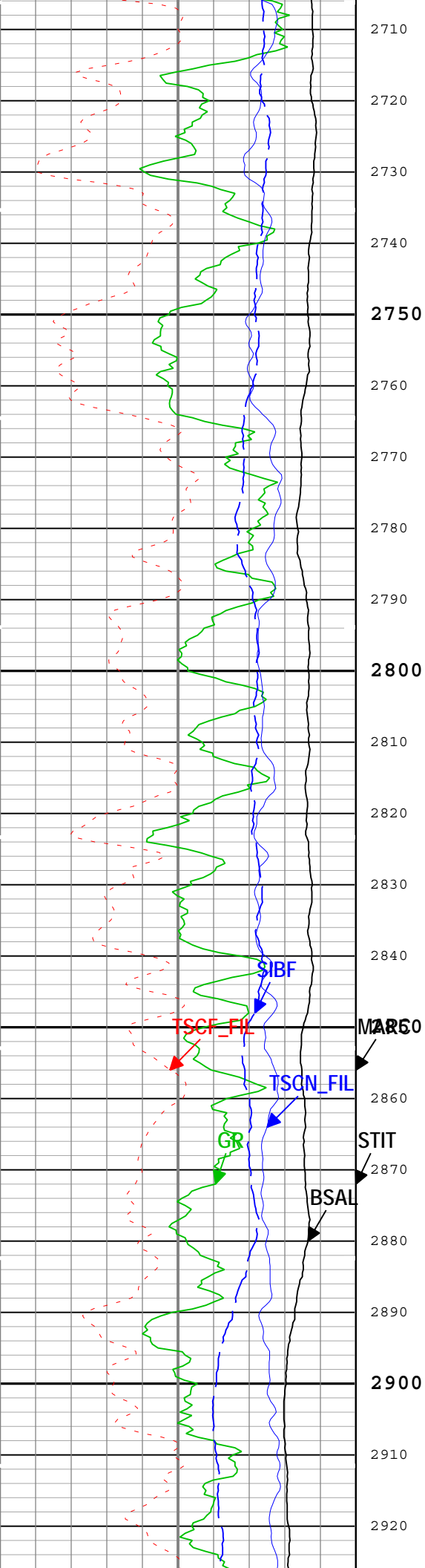
ICV - Integrated Cement Volume every 10.00 (ft3)

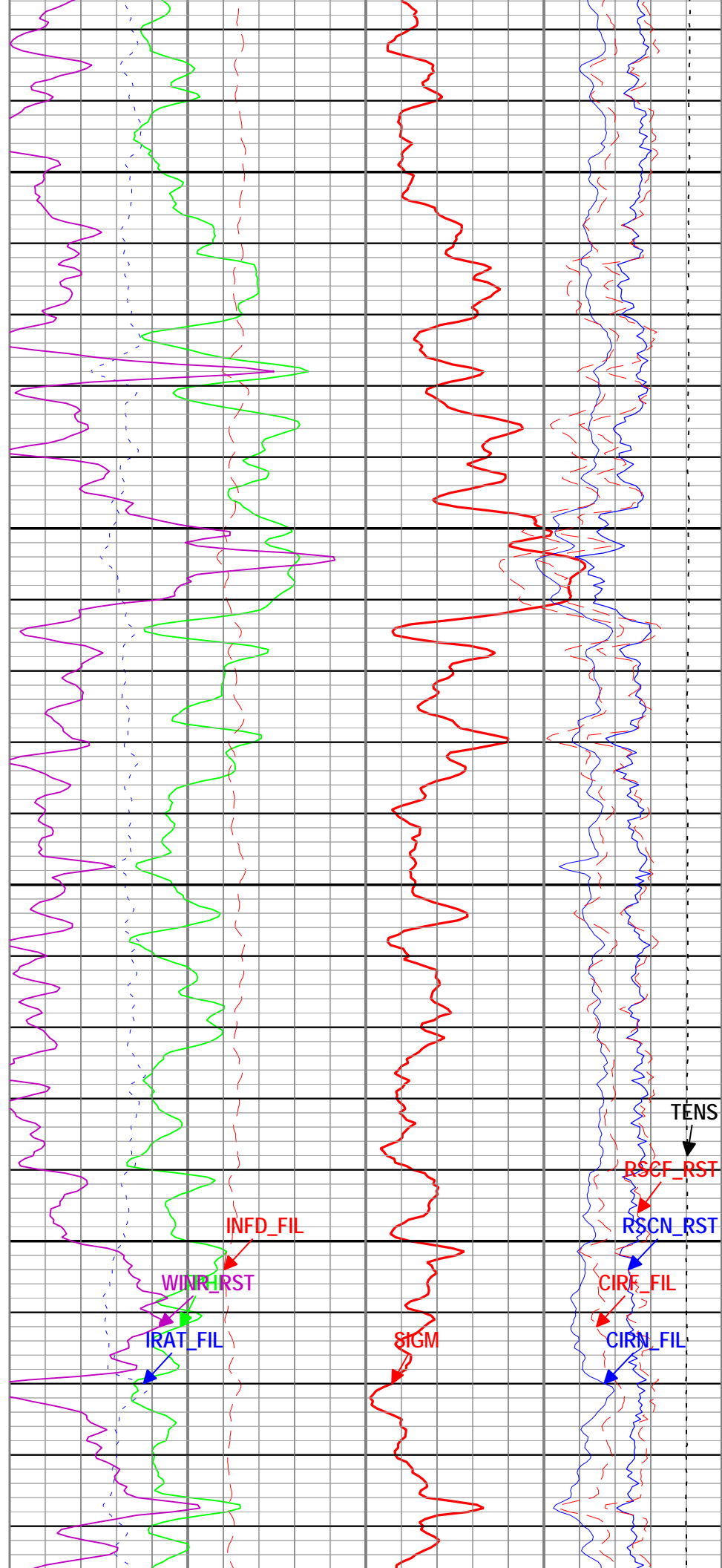
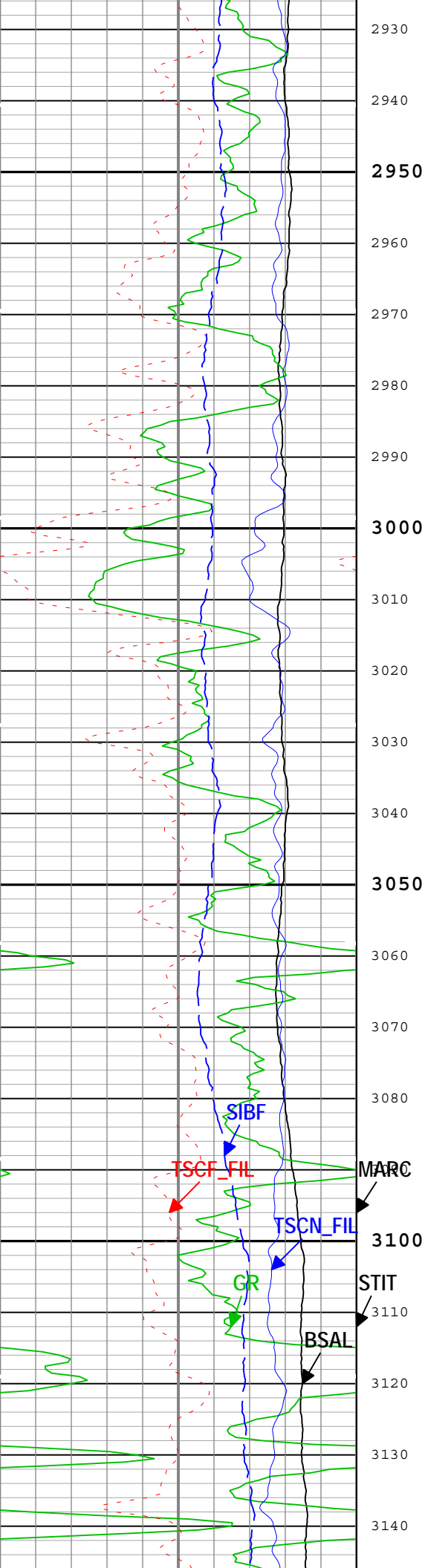
ICV - Integrated Cement Volume every 100.00 (ft3)

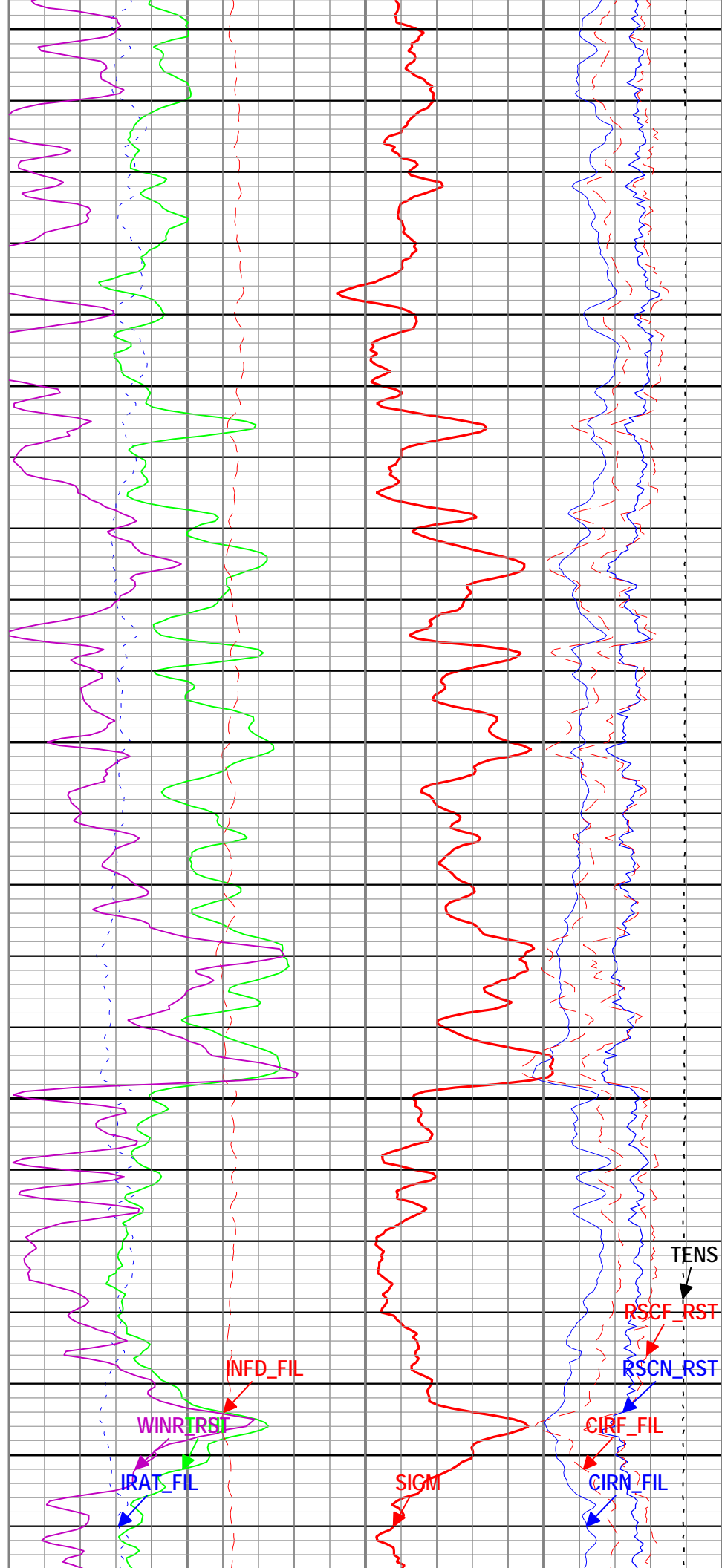
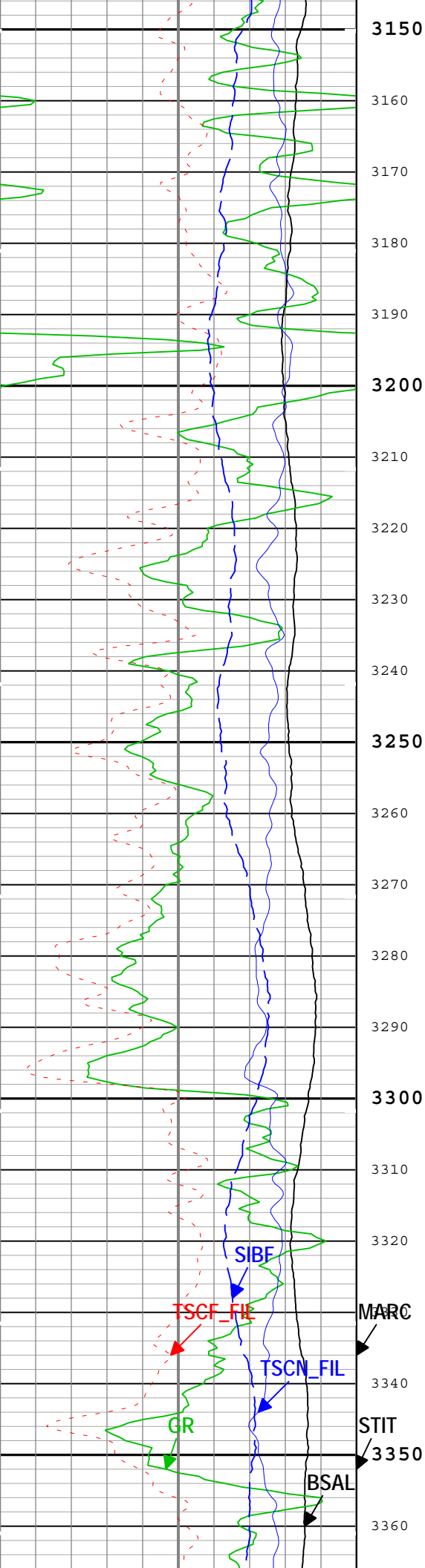
			Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C		2.5	0
			Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C		5	0
			Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C		45	0
			Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C		45	0
			Cable Tension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

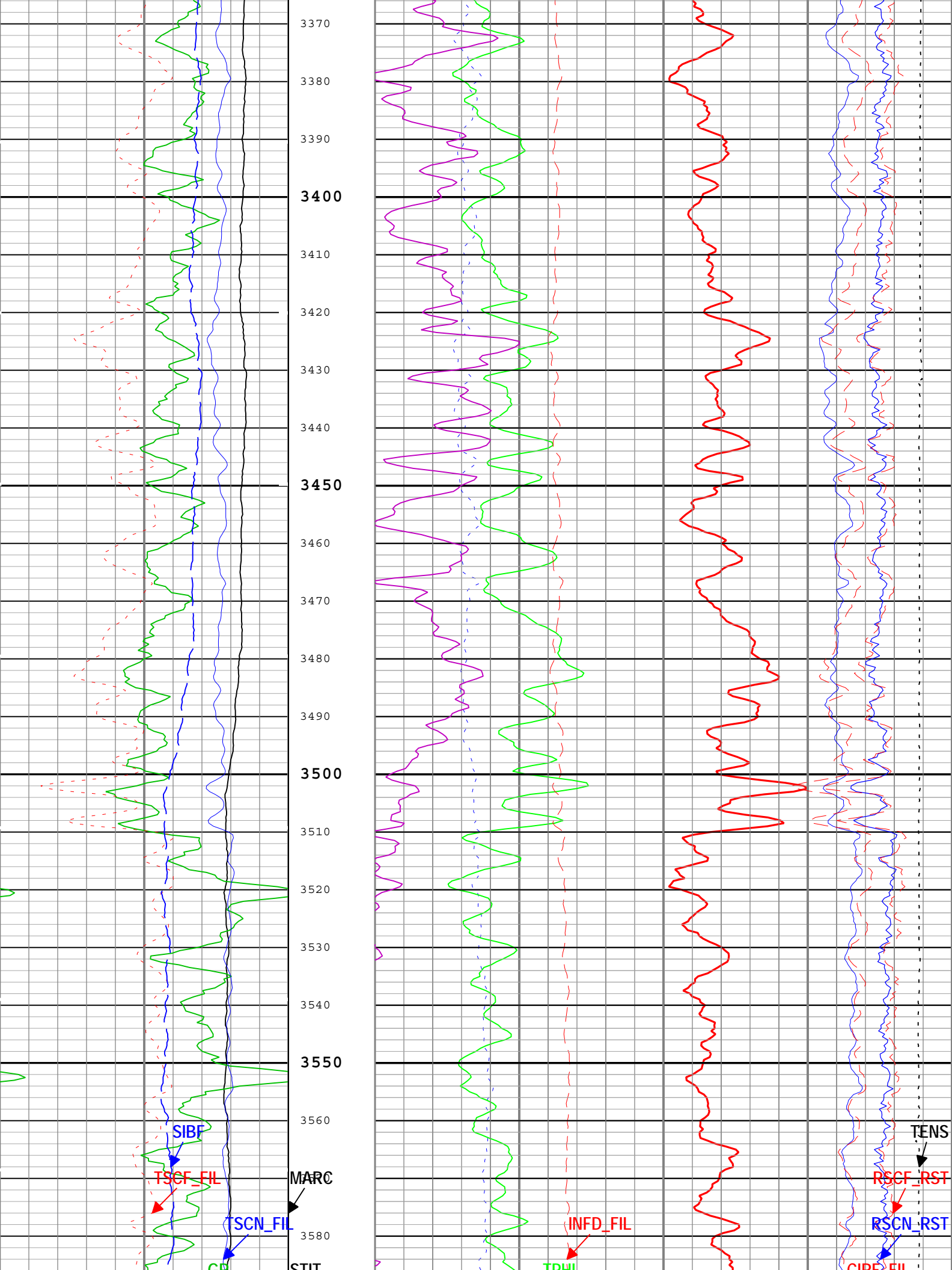


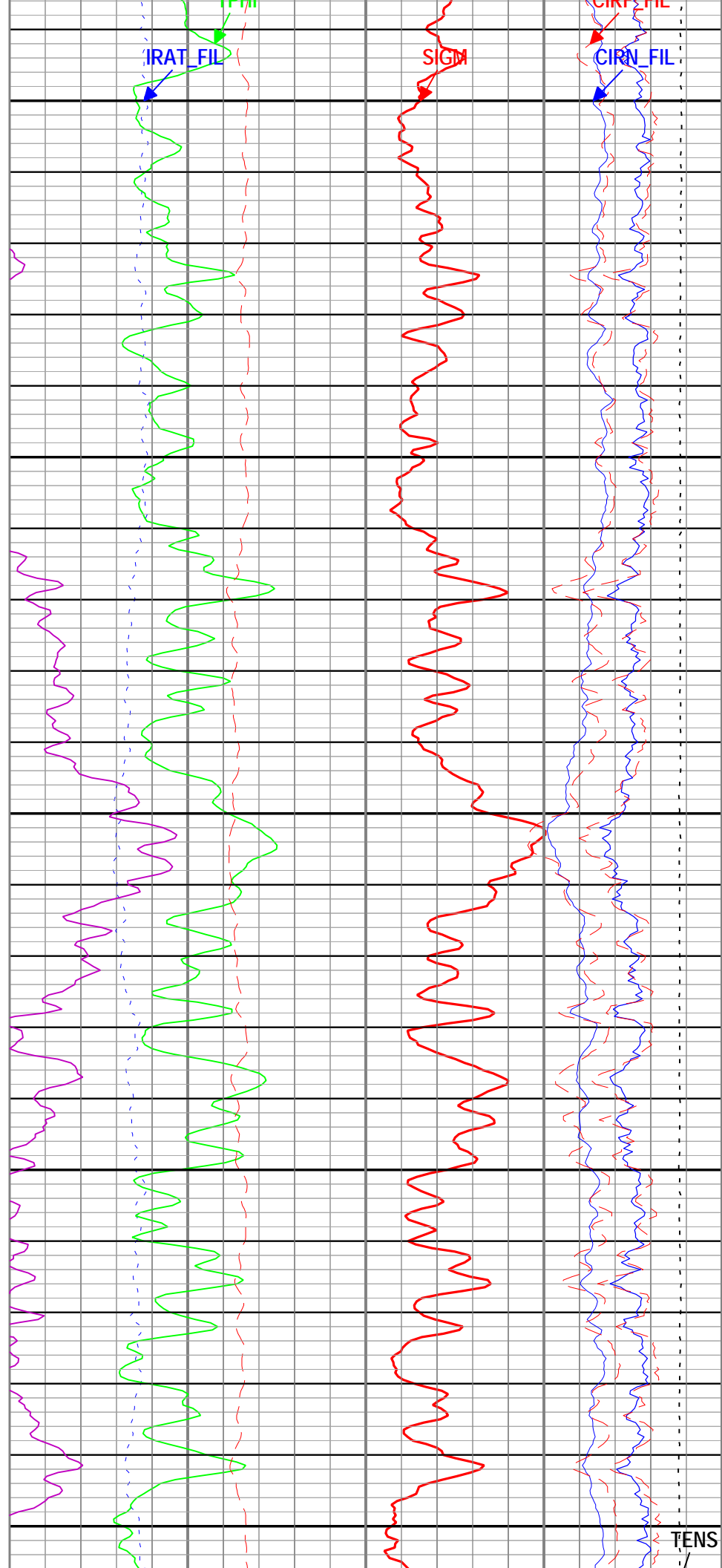
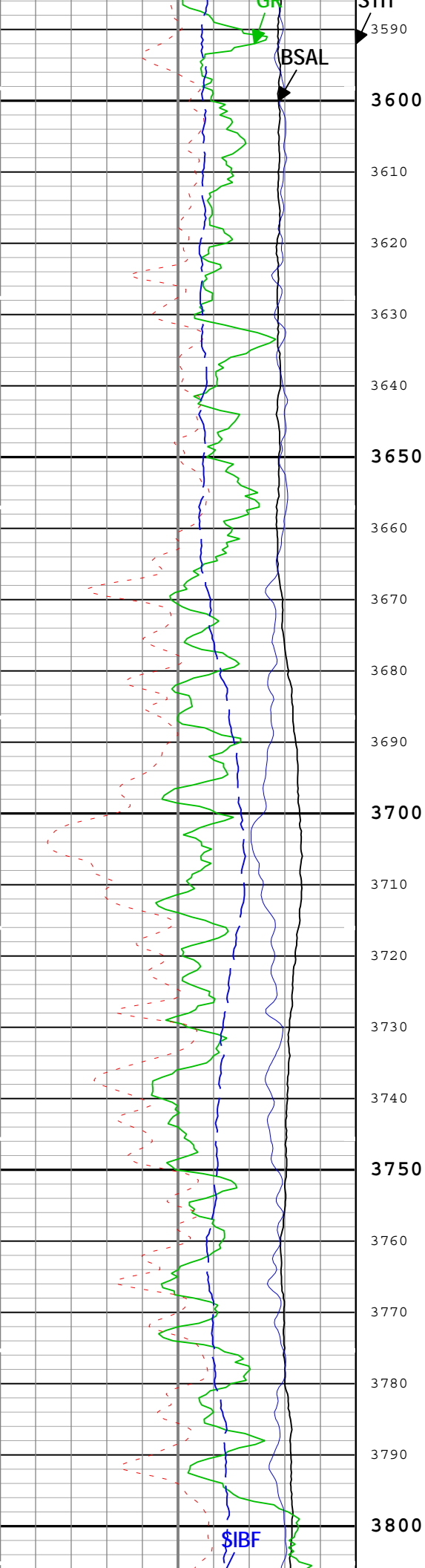


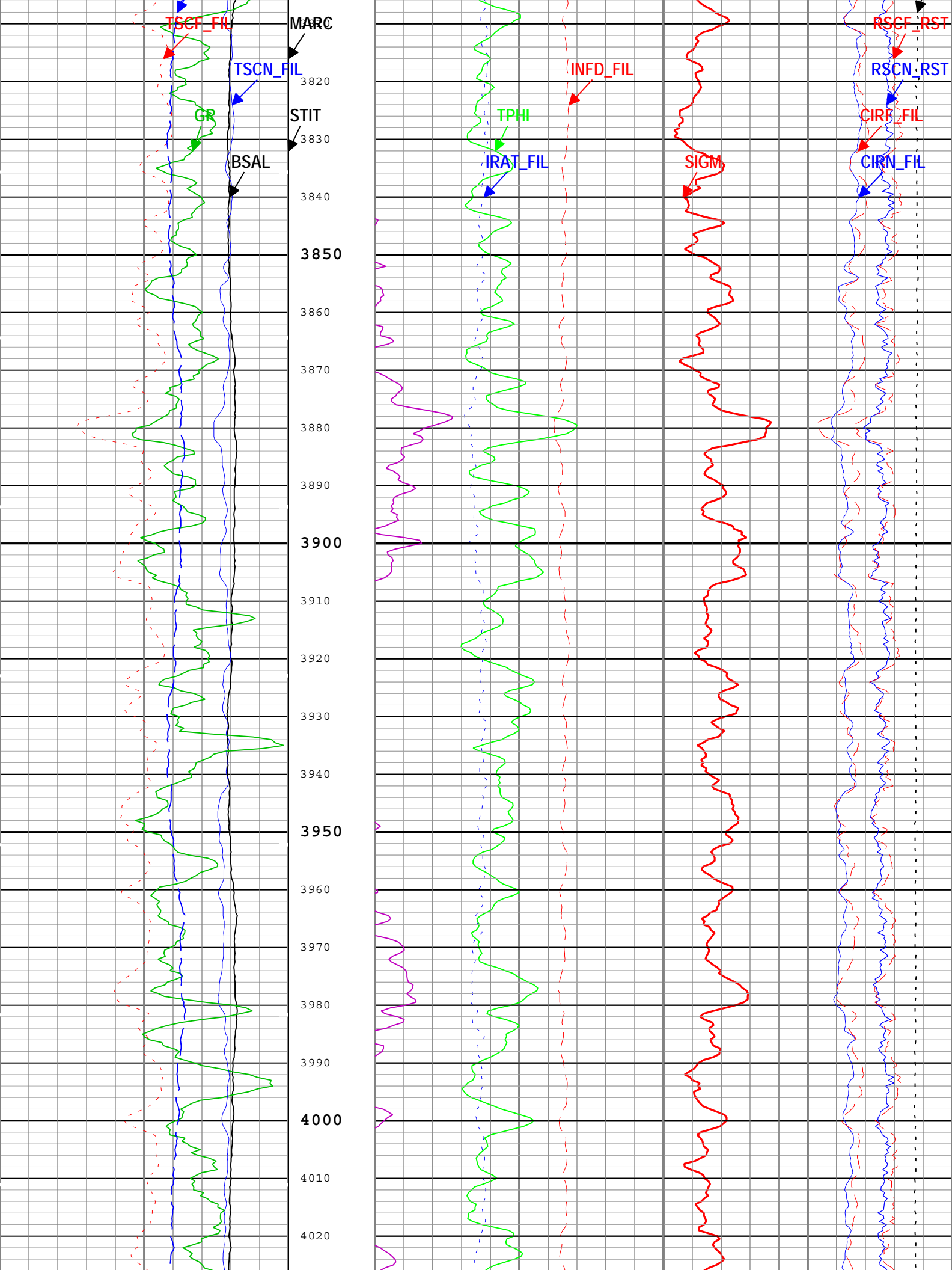


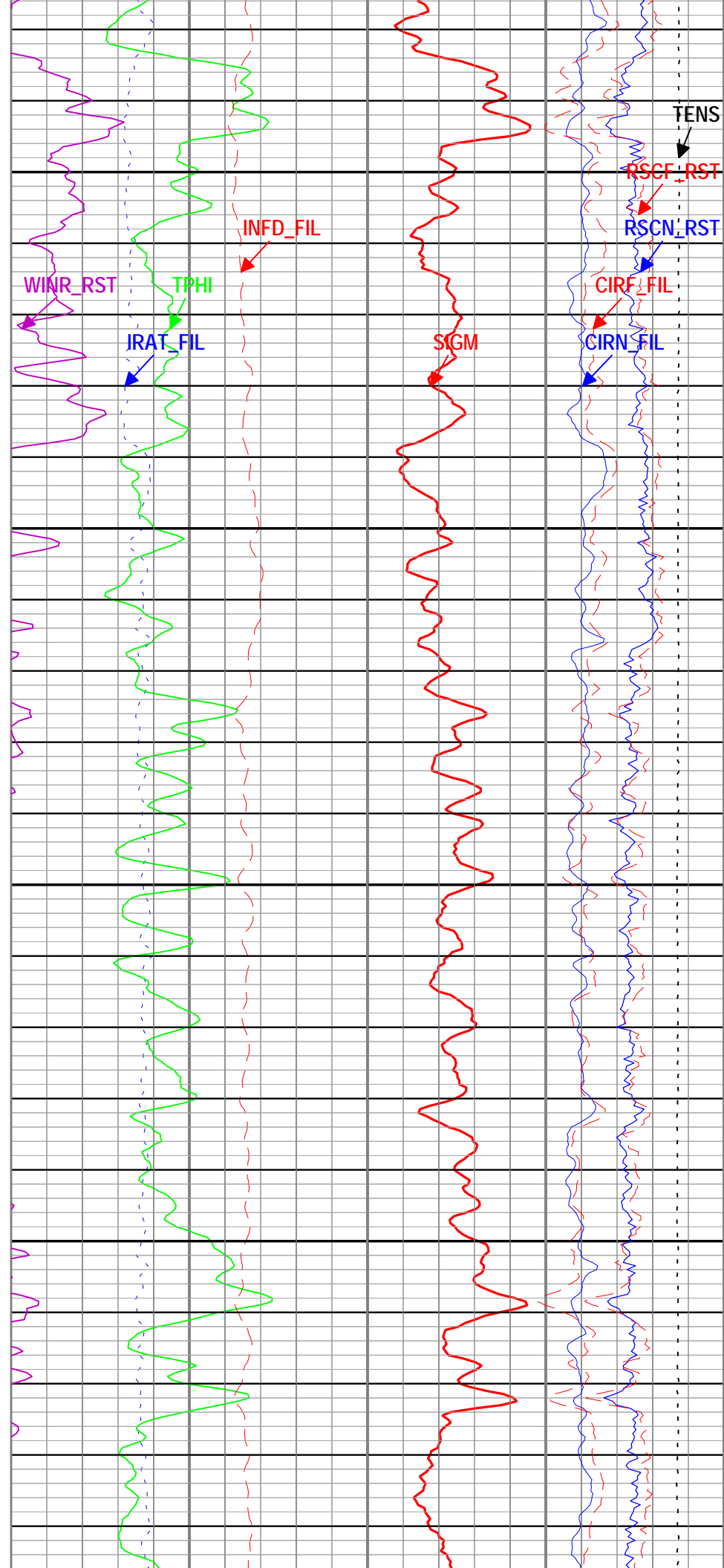
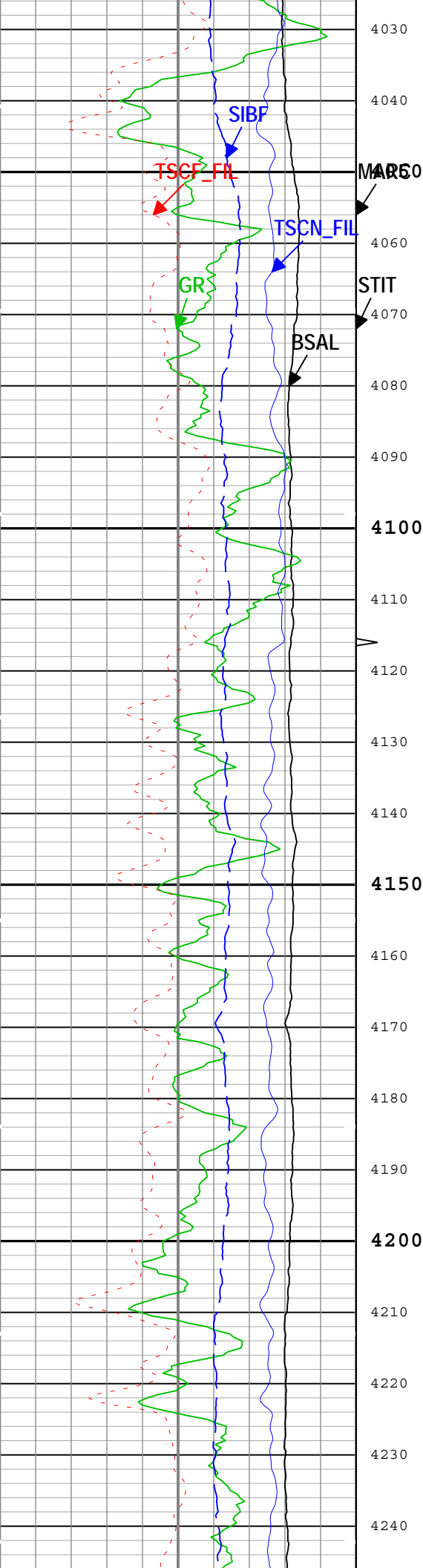


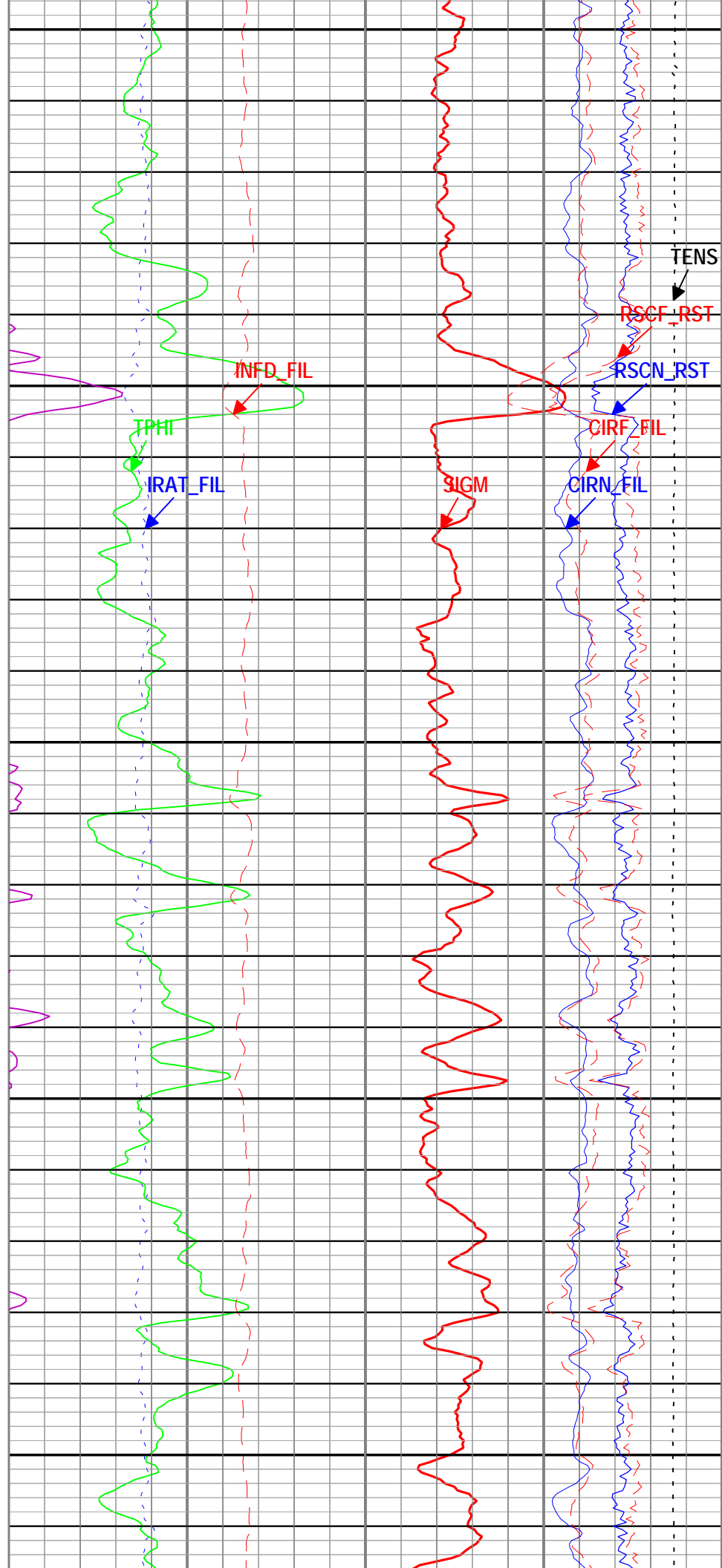
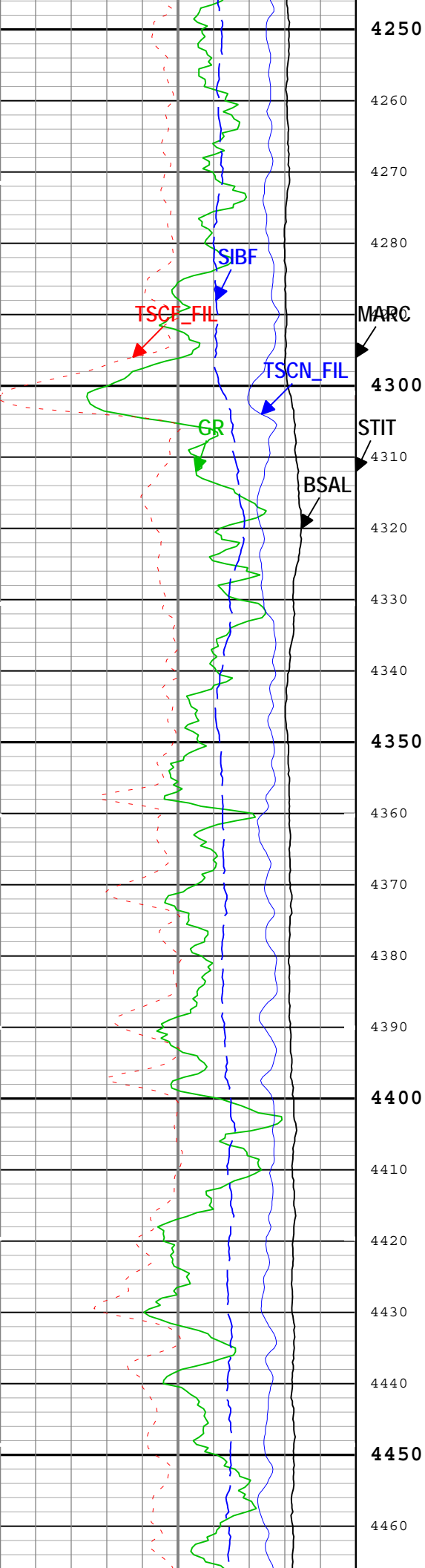


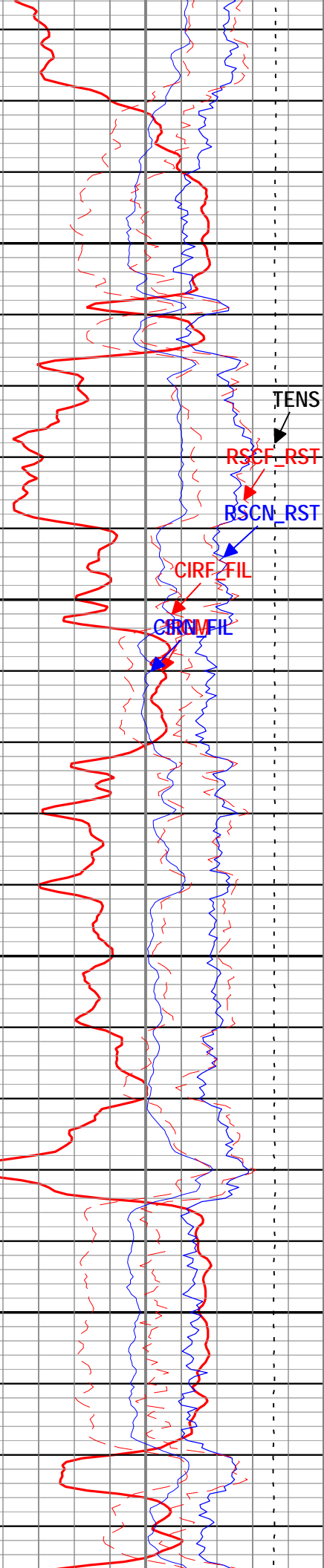
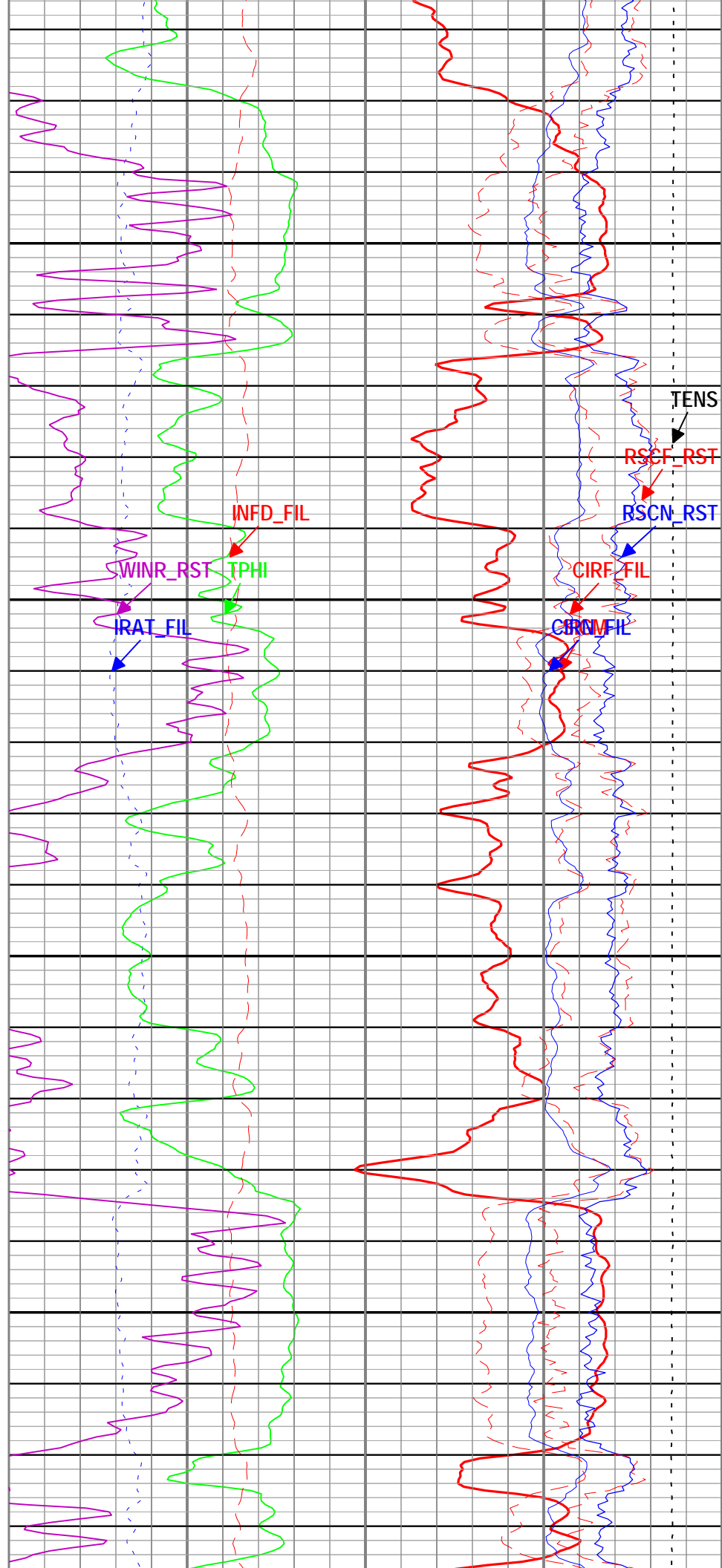
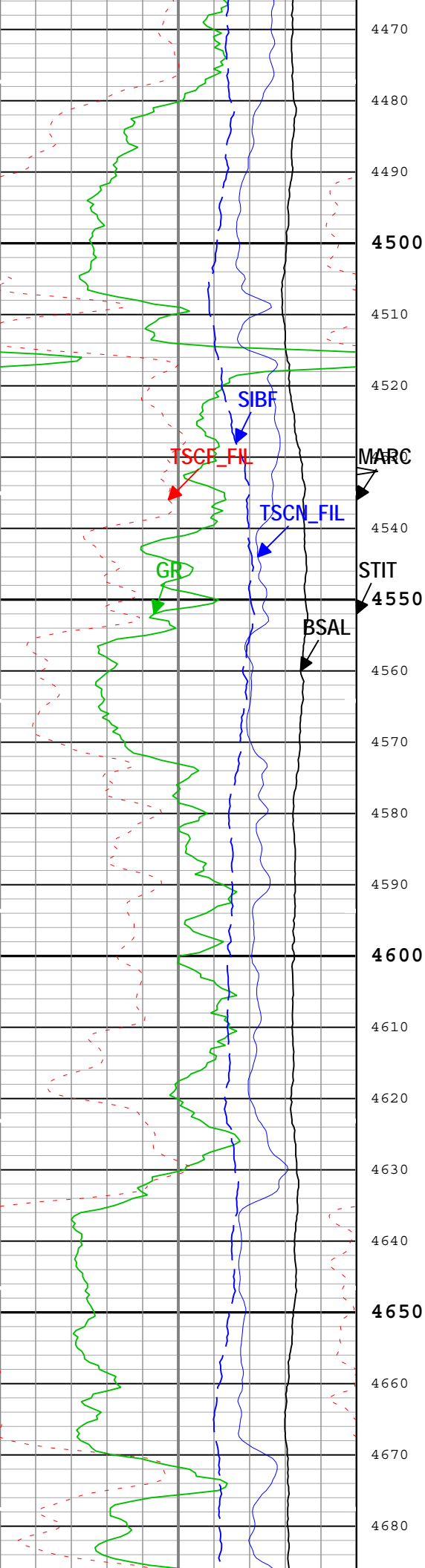


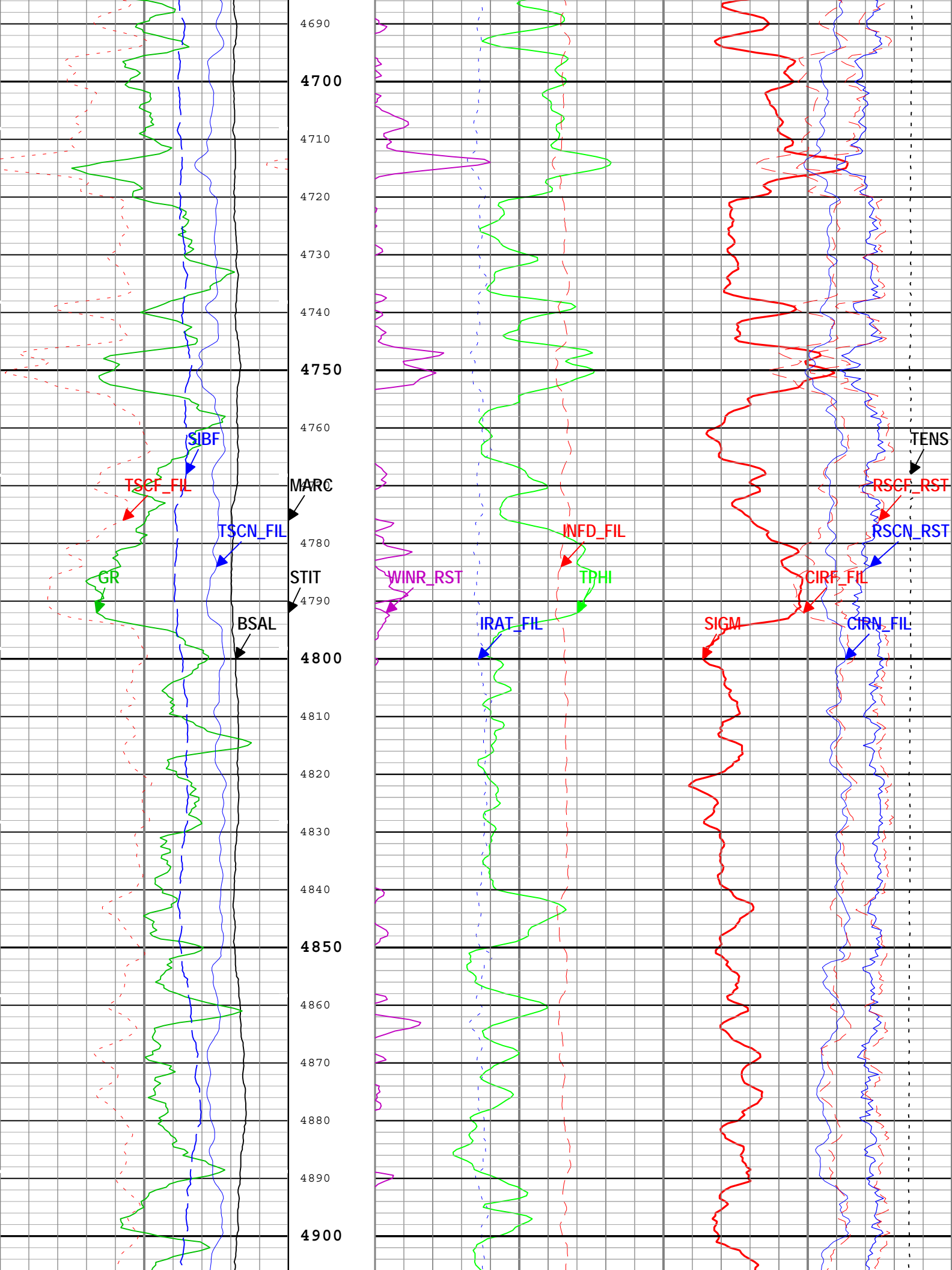


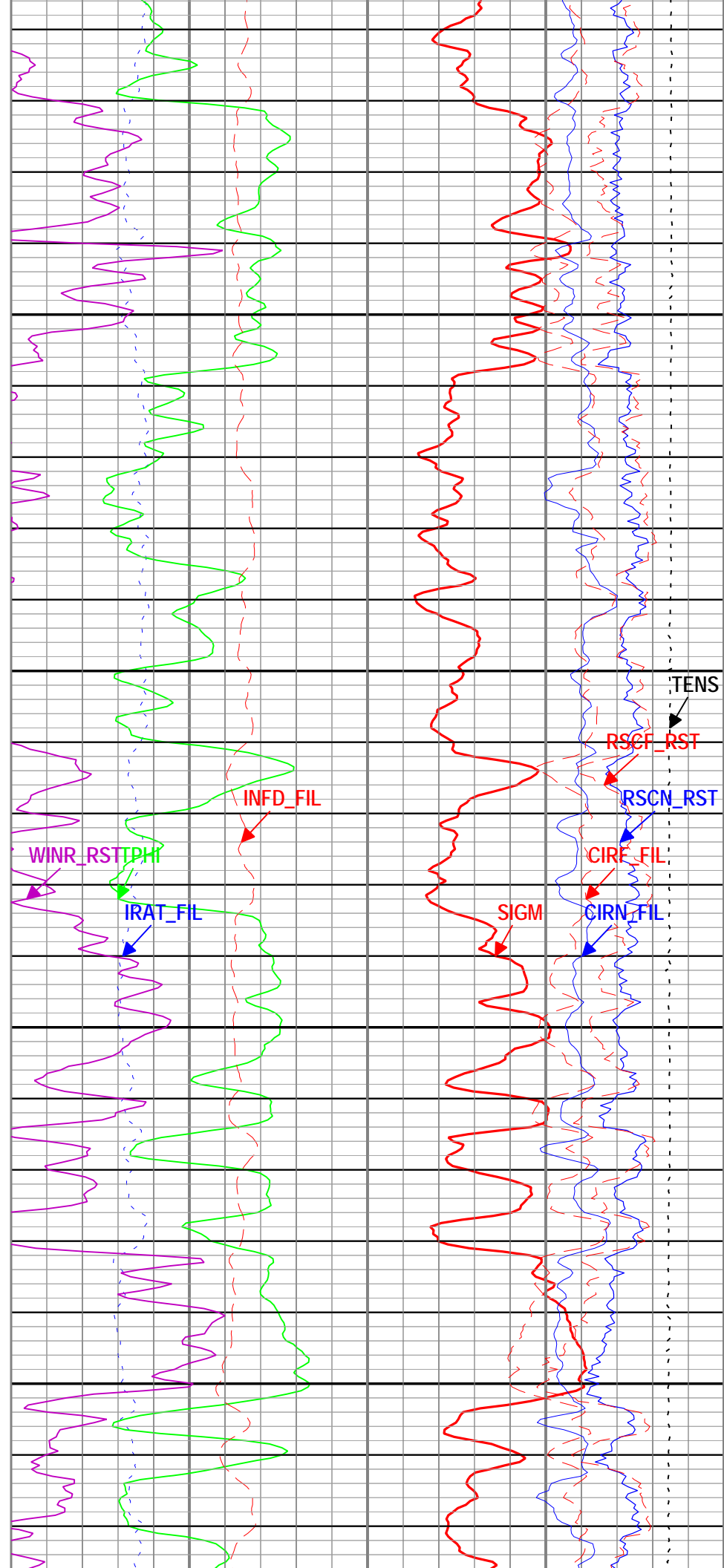
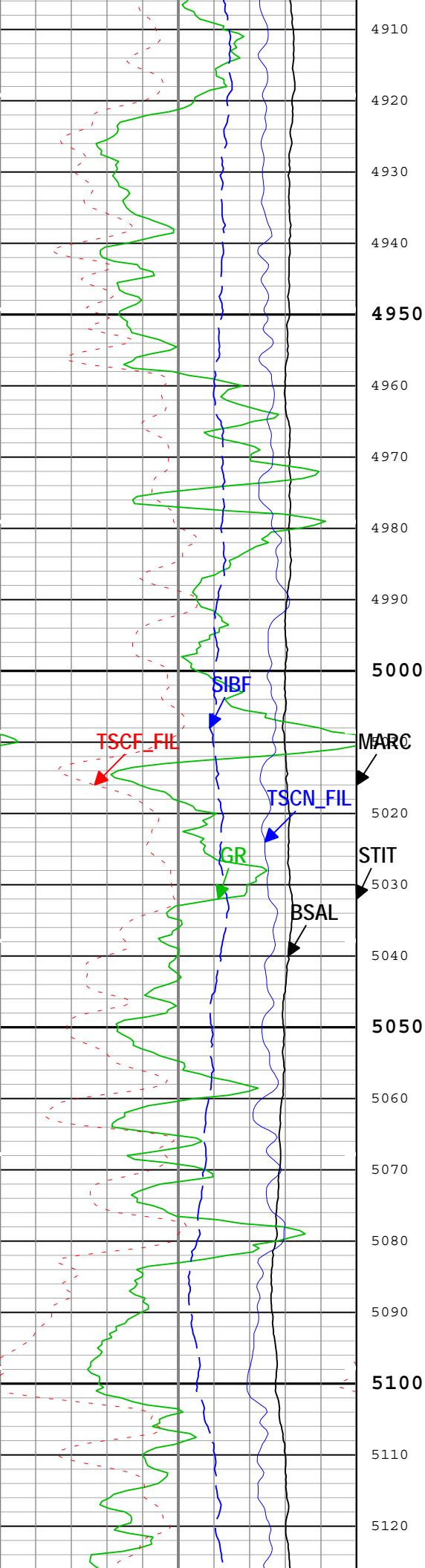


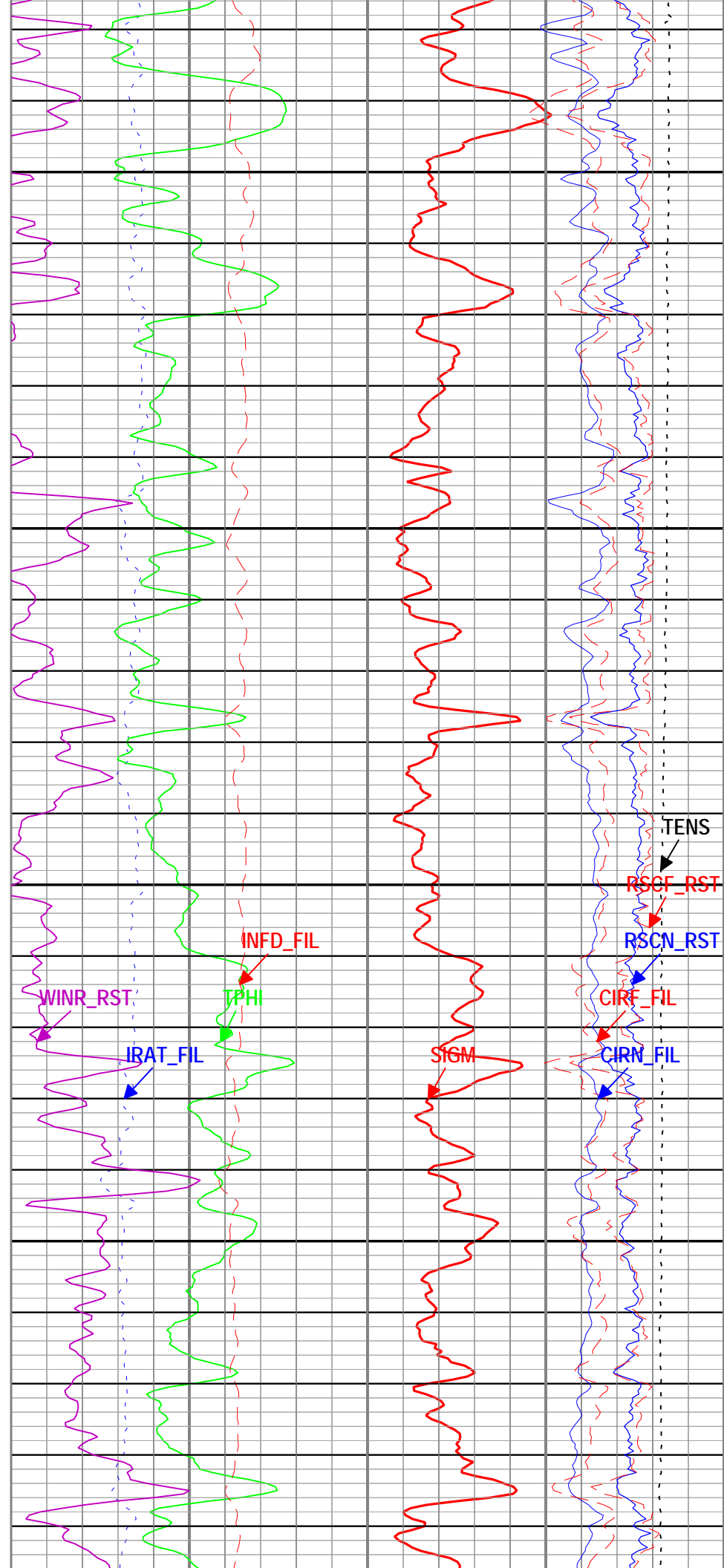
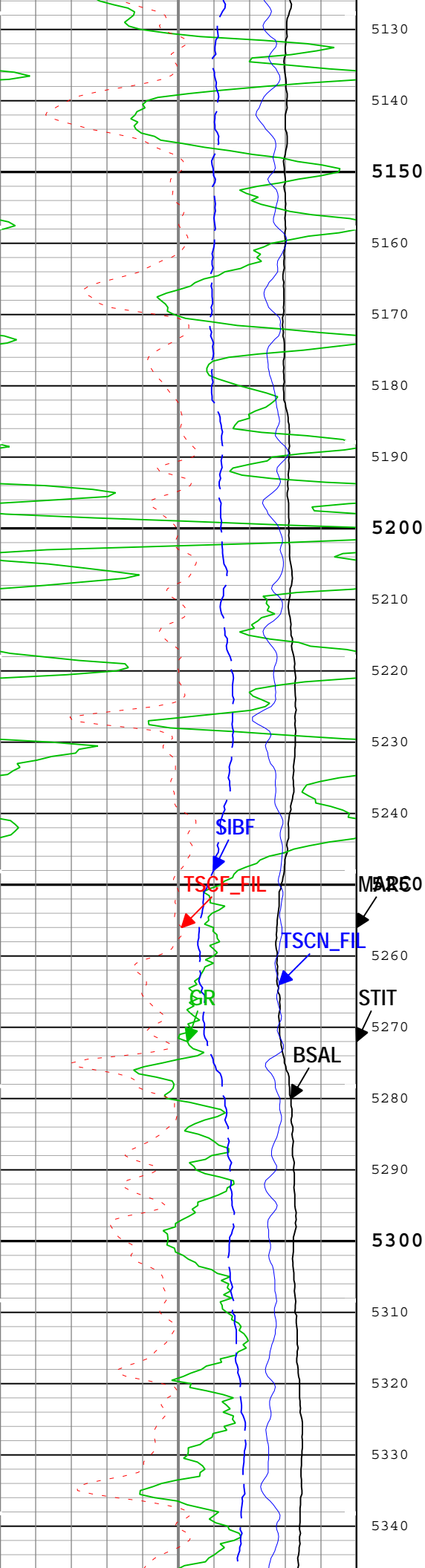


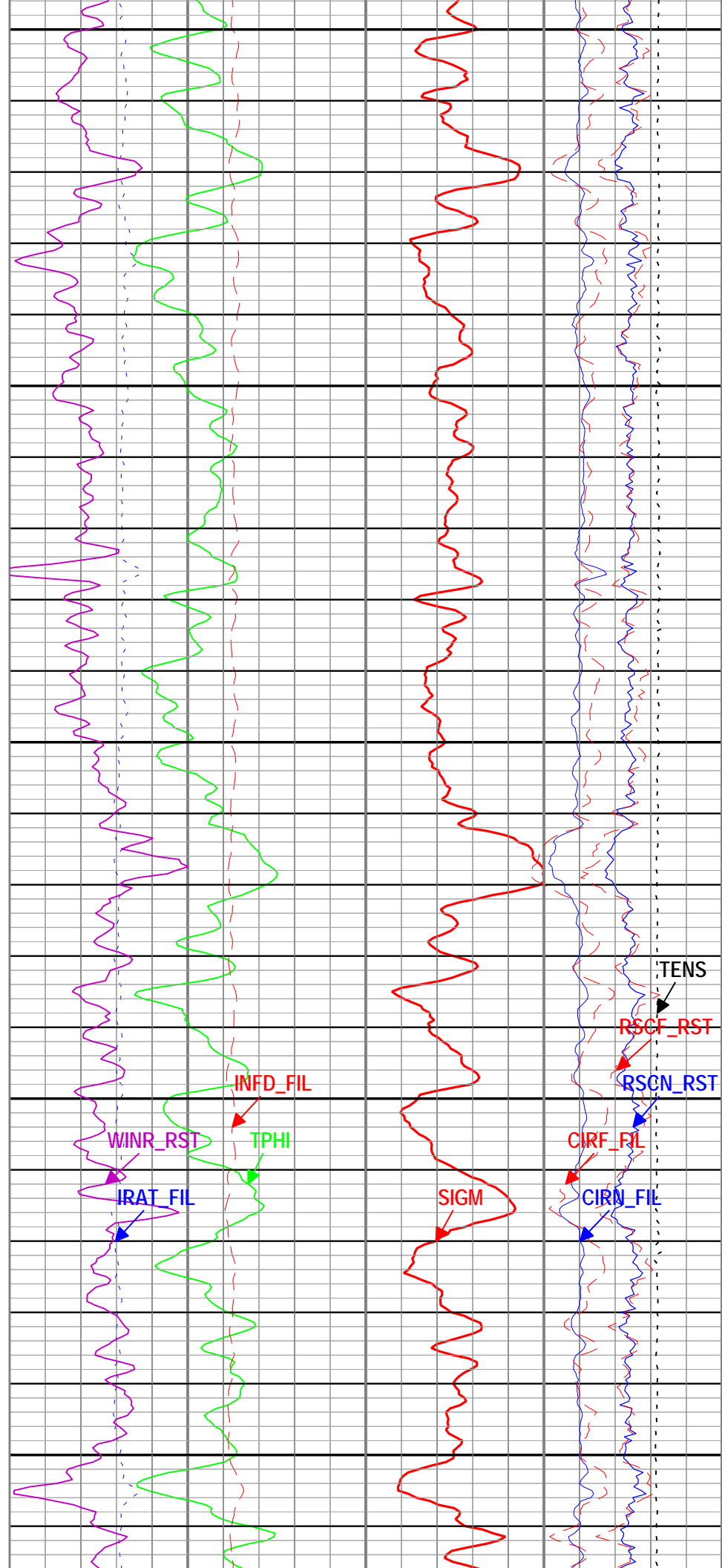
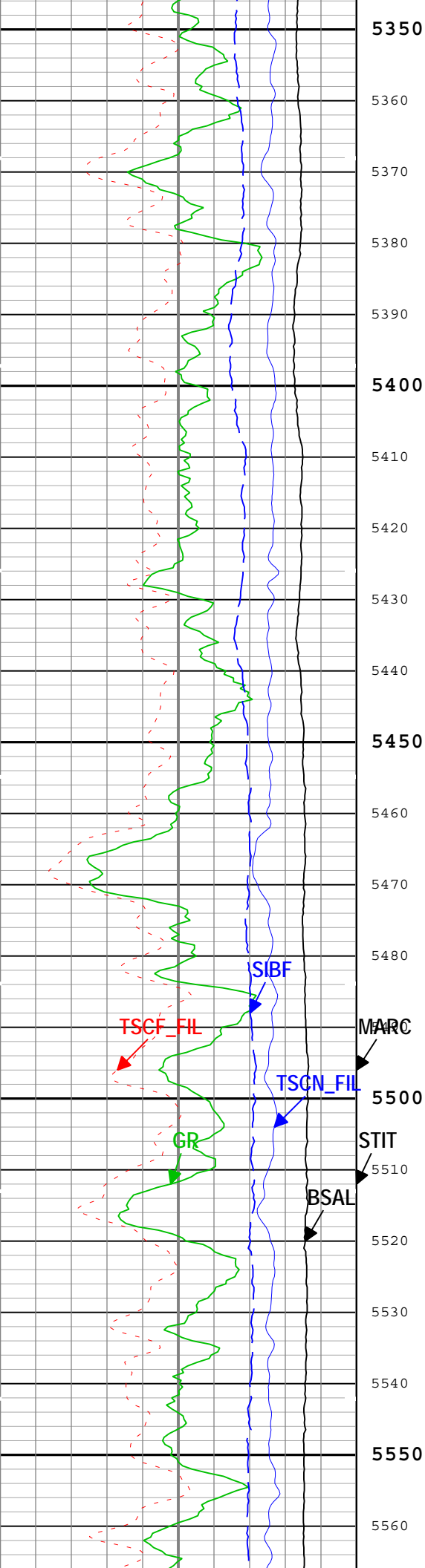


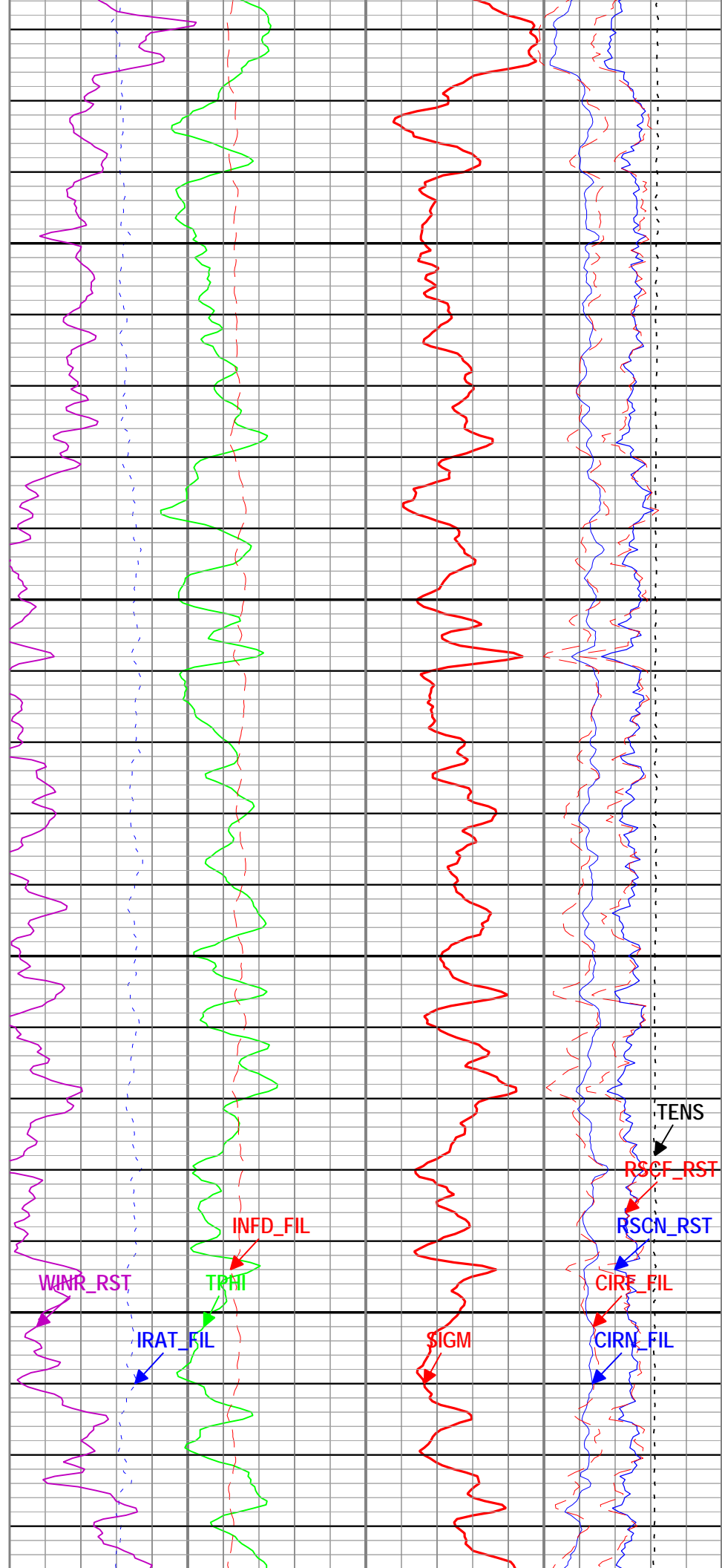
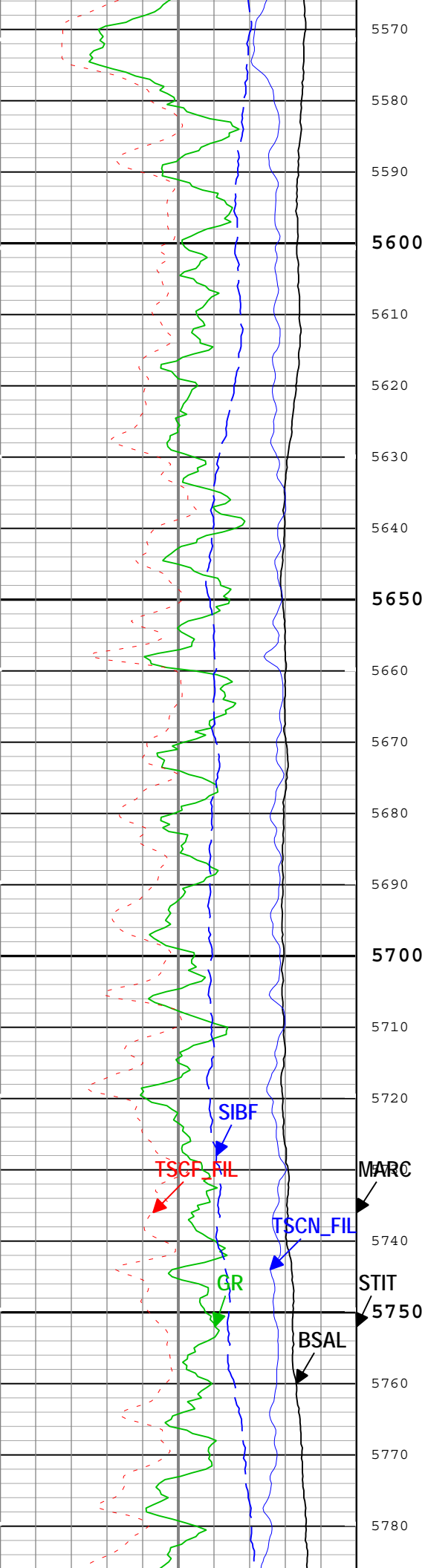


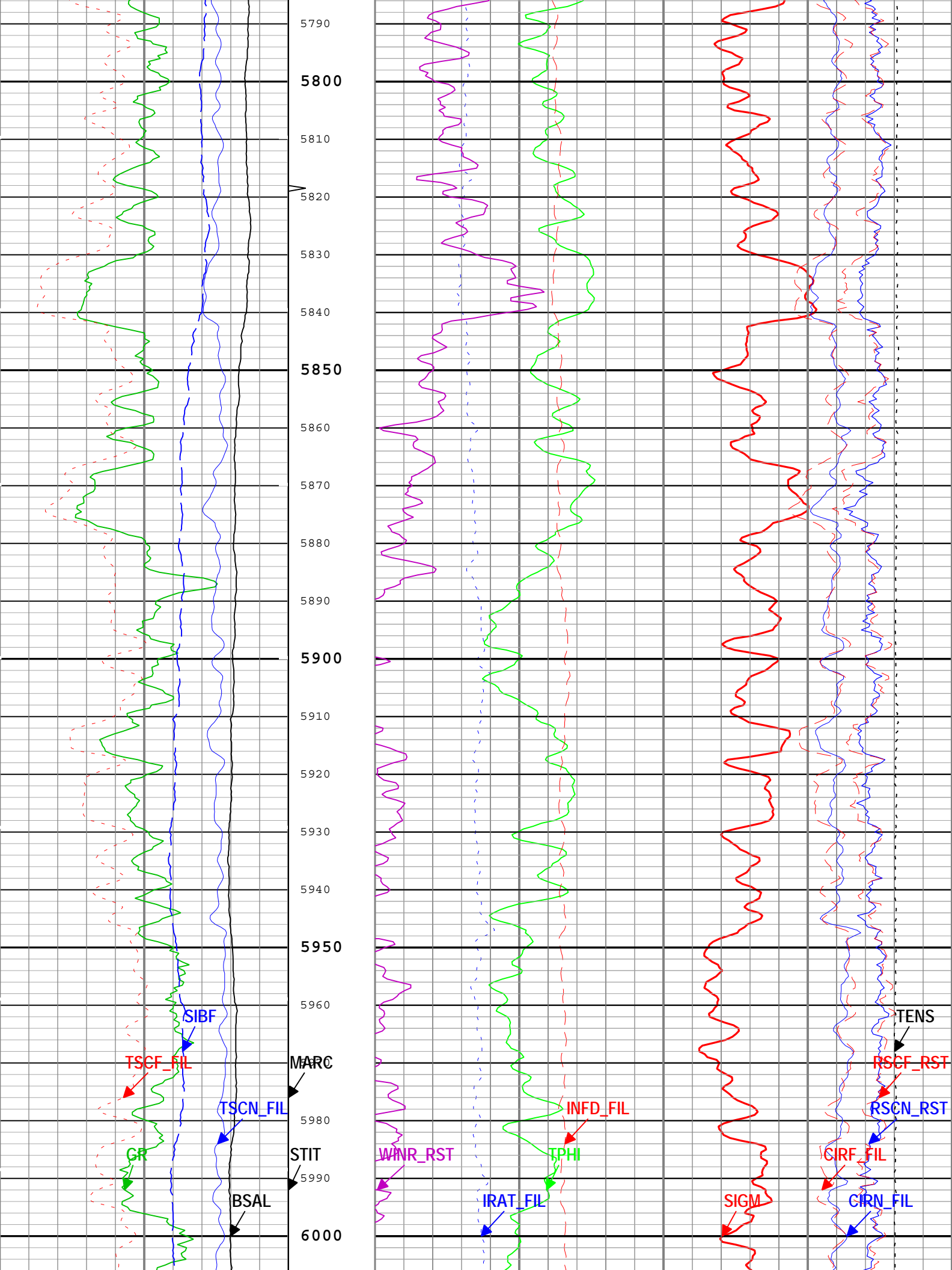


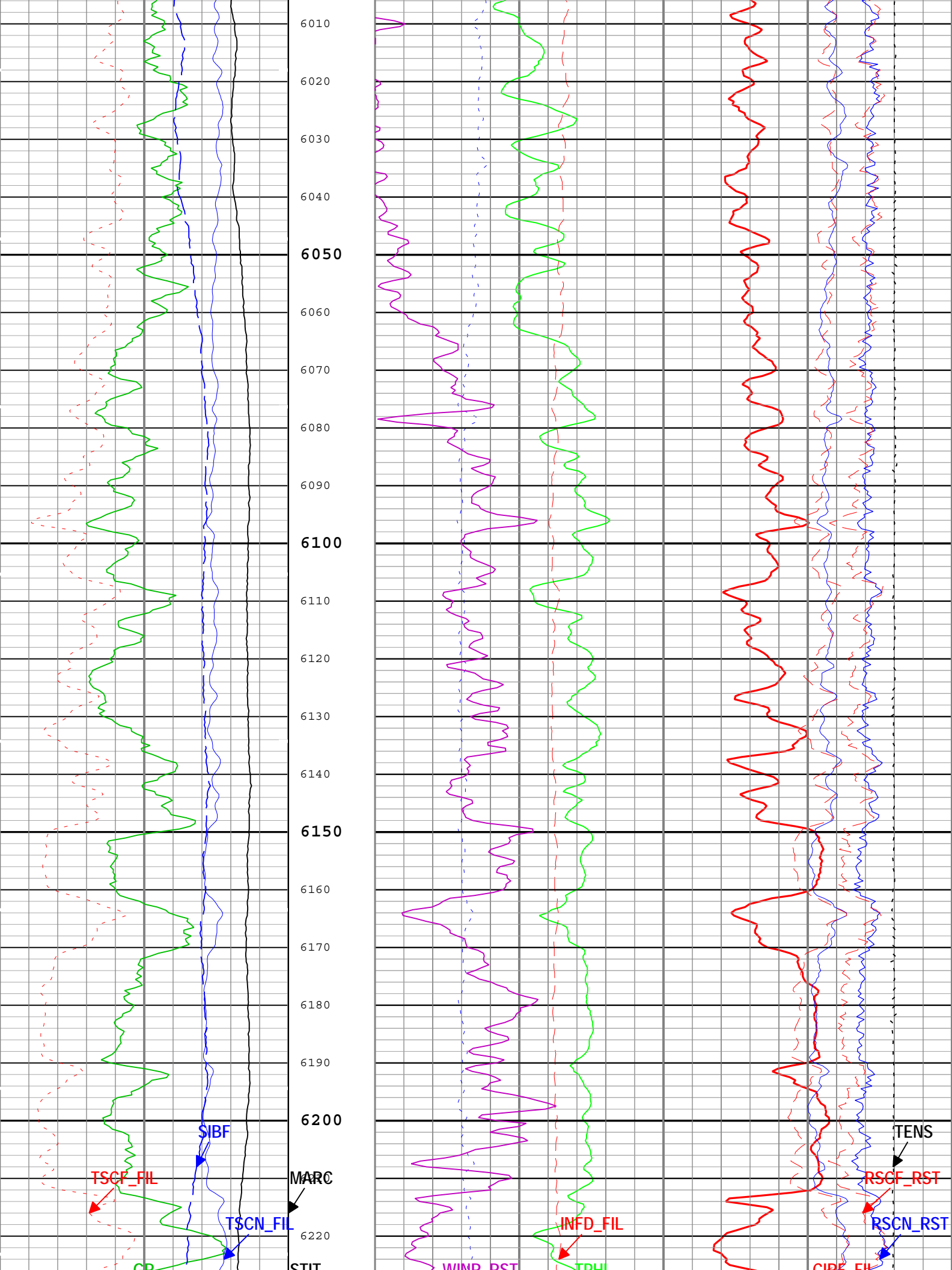


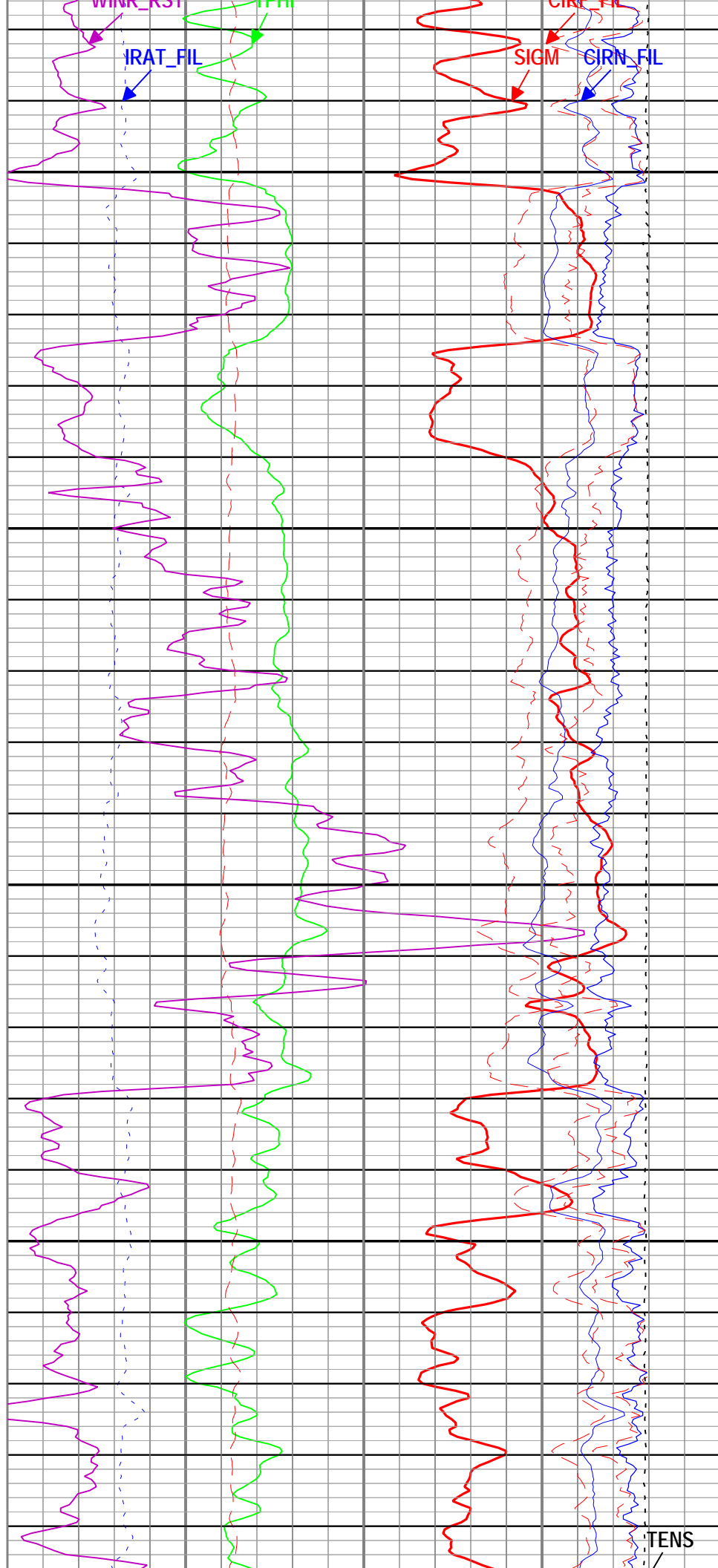
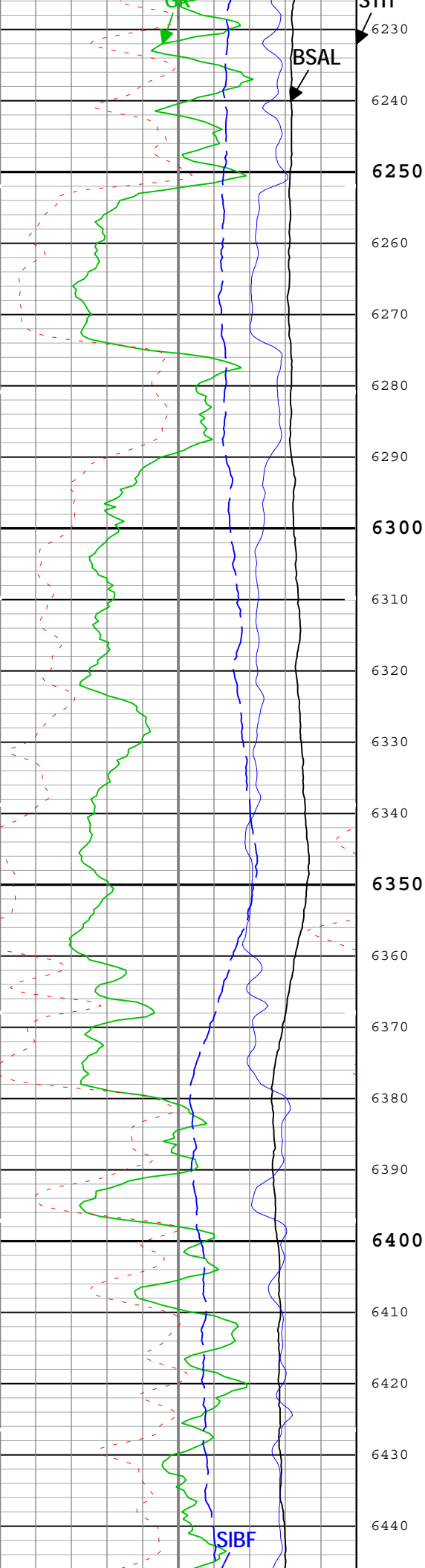


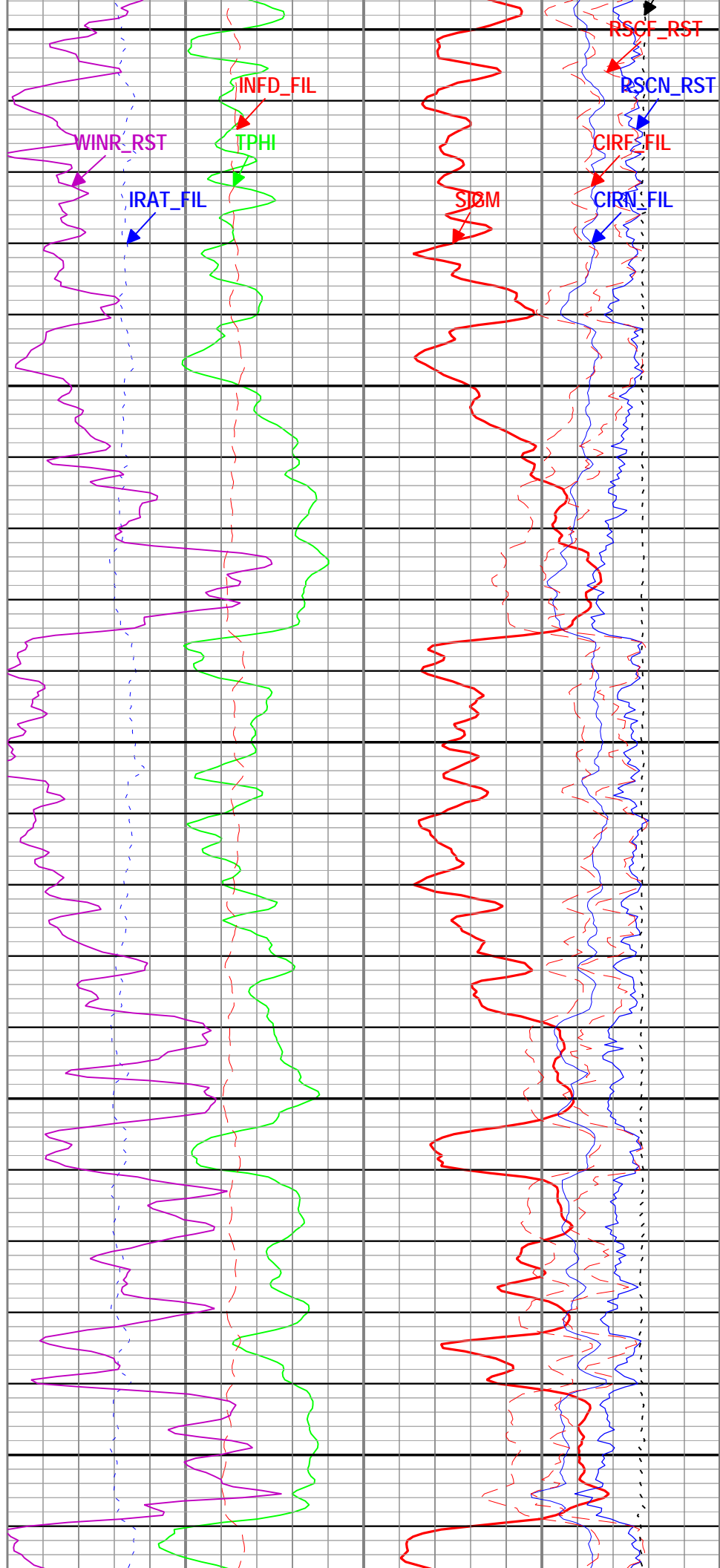
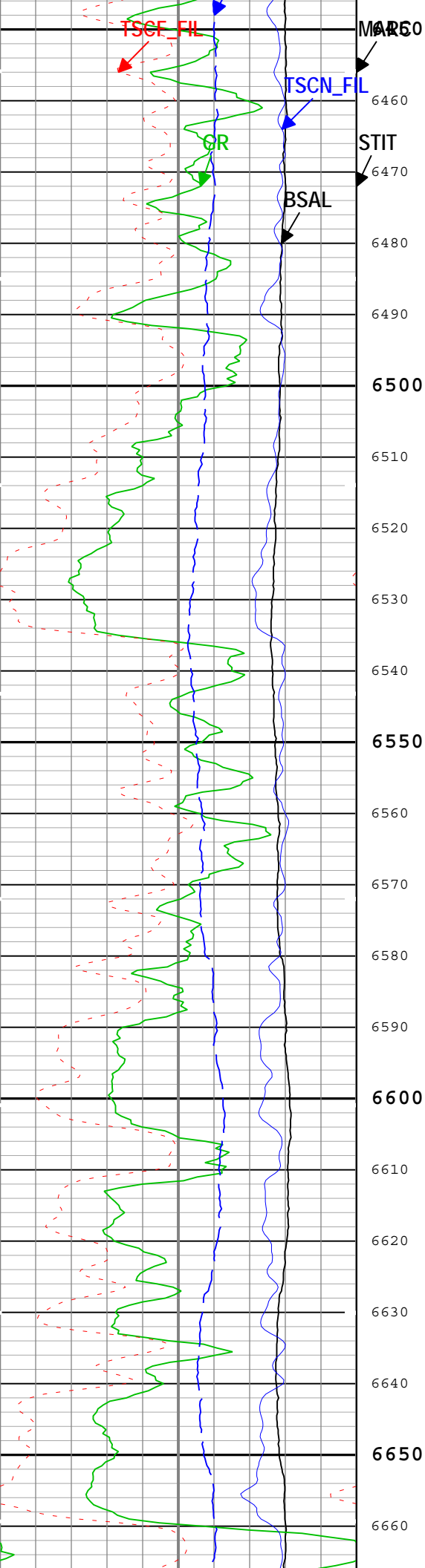


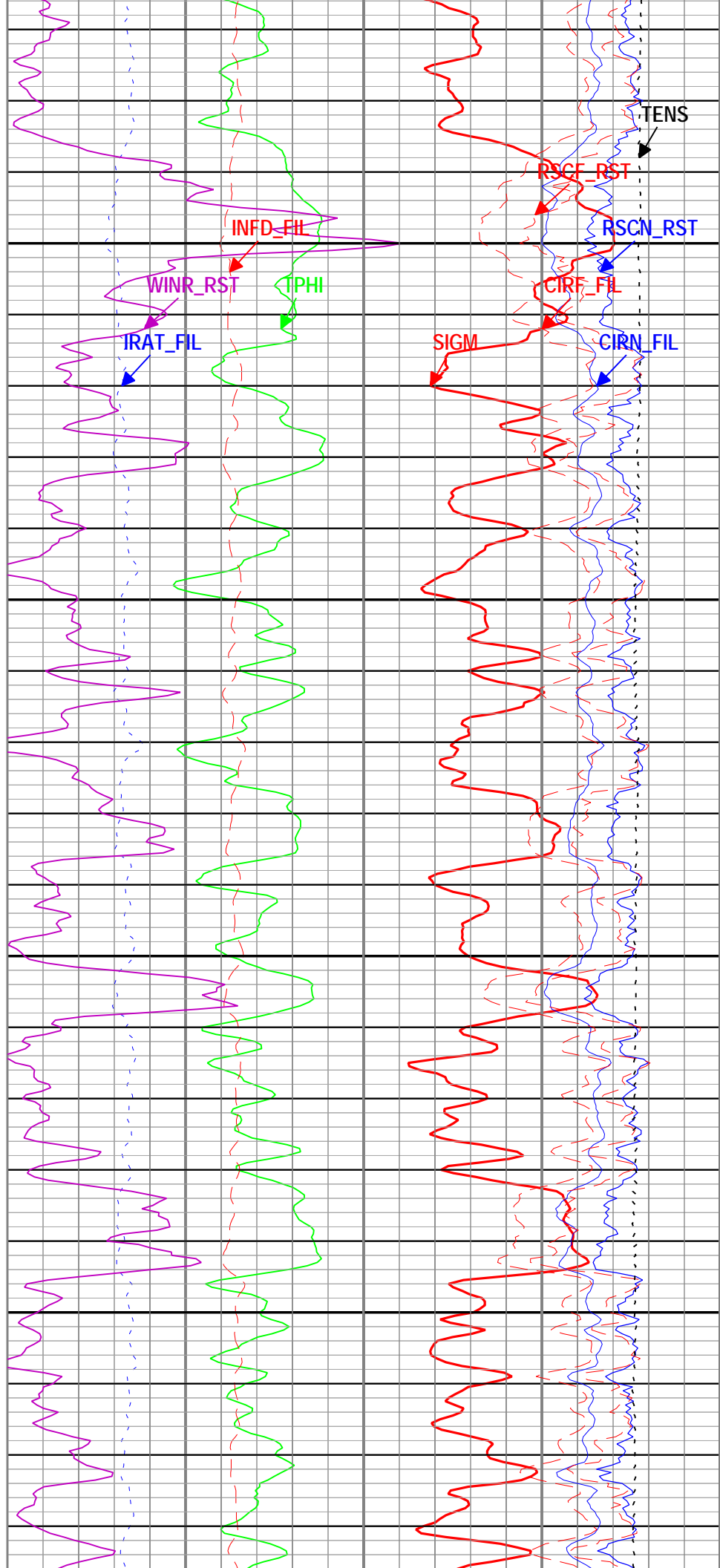
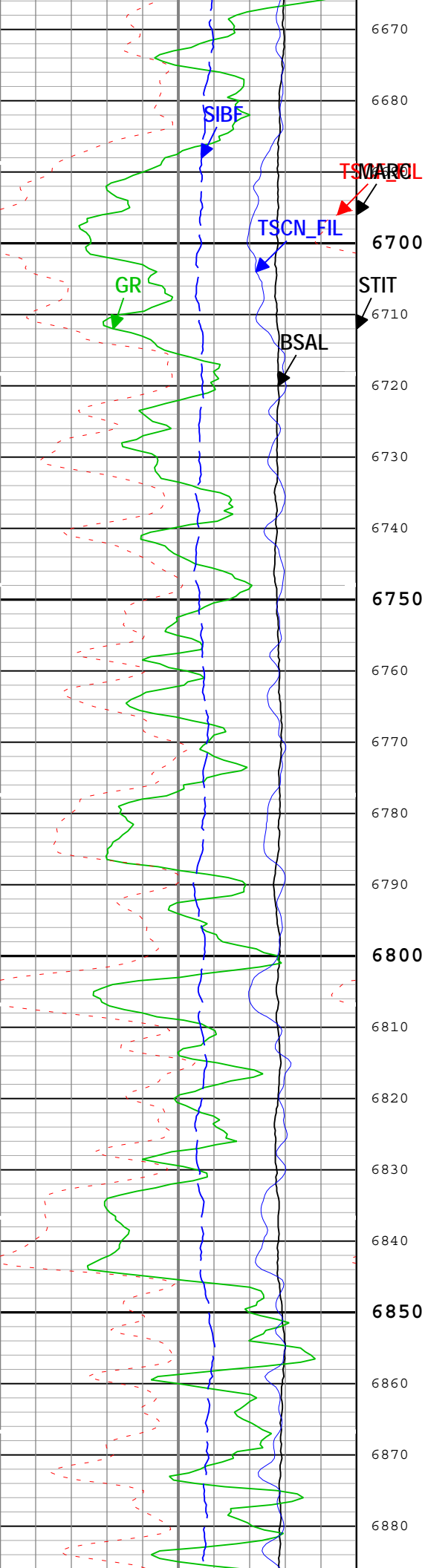


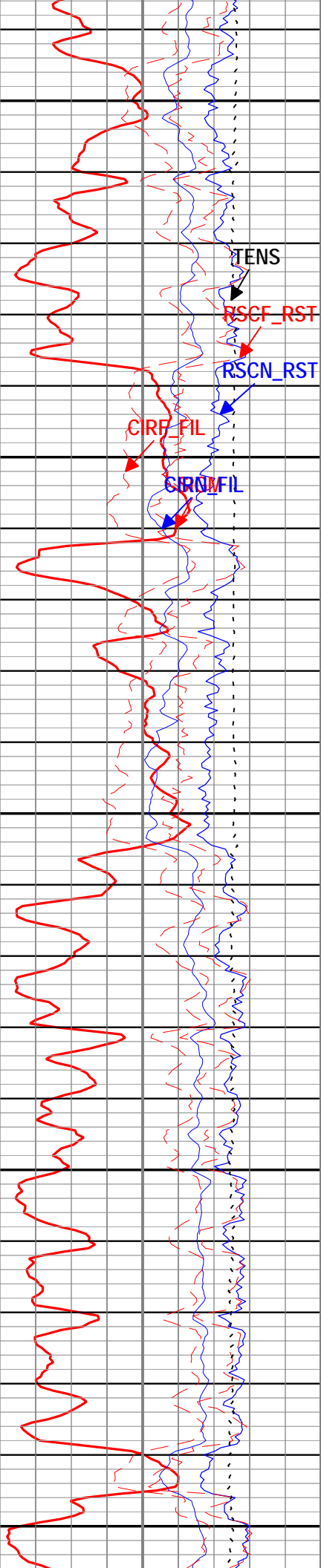
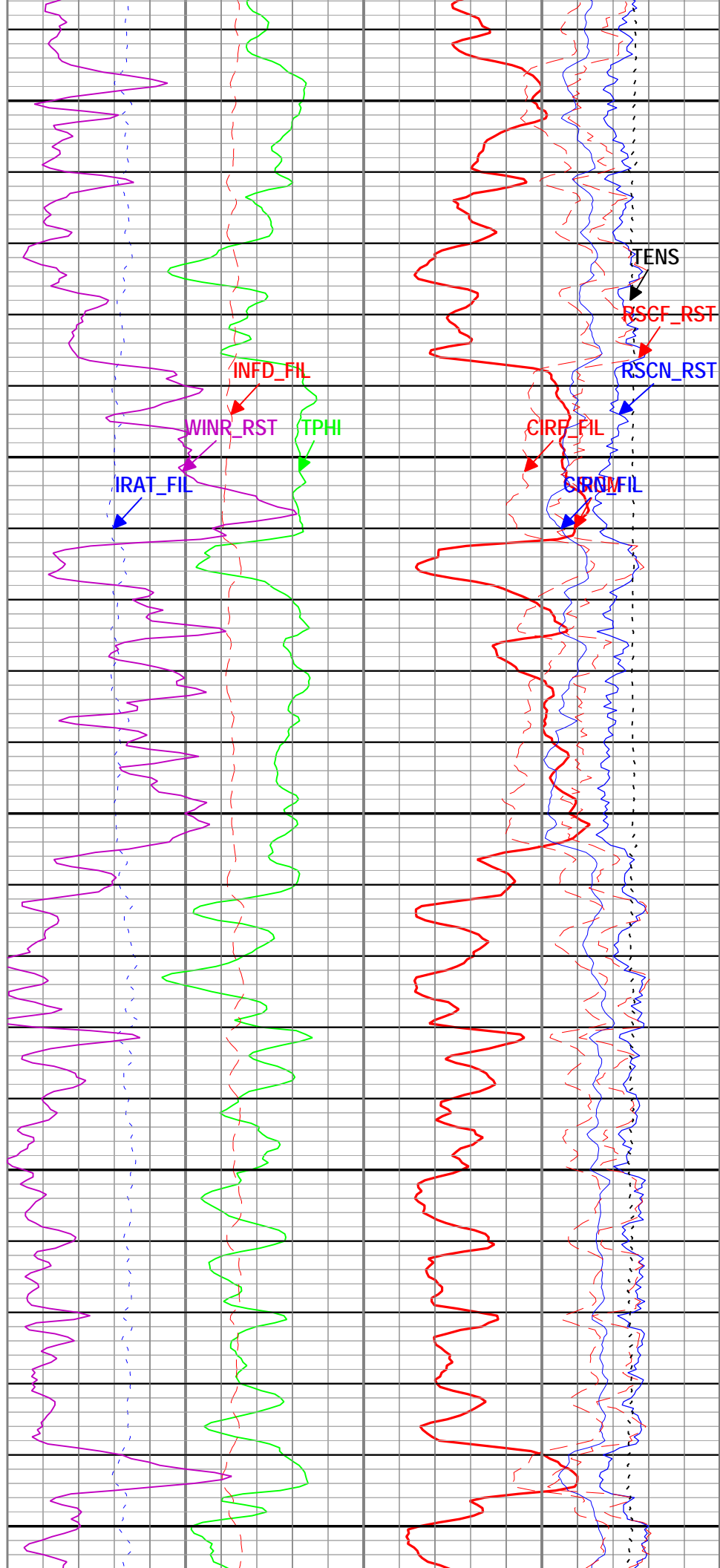
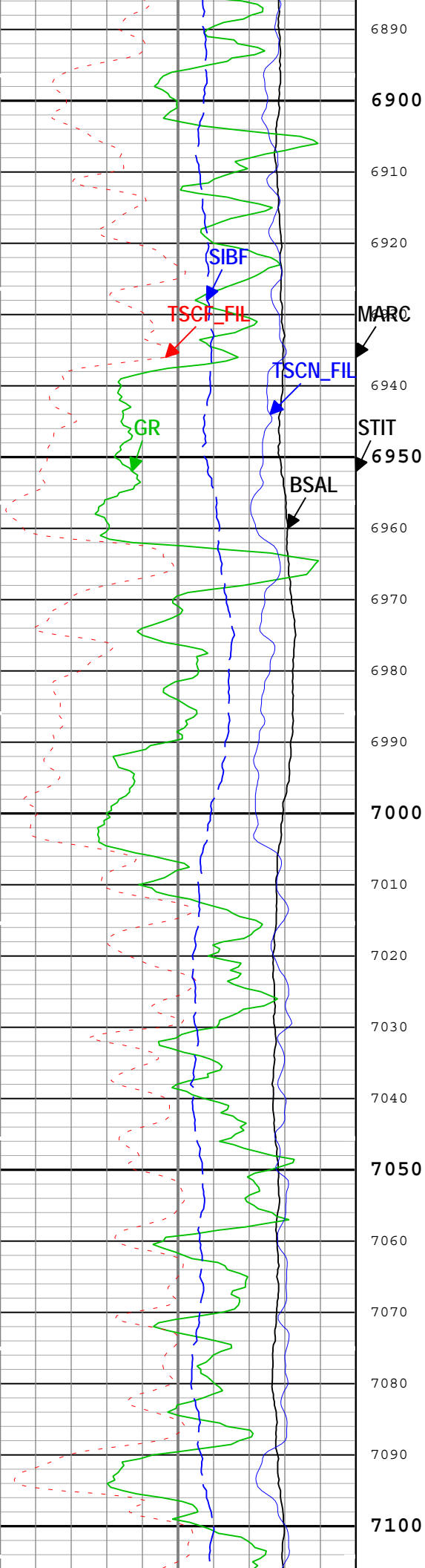


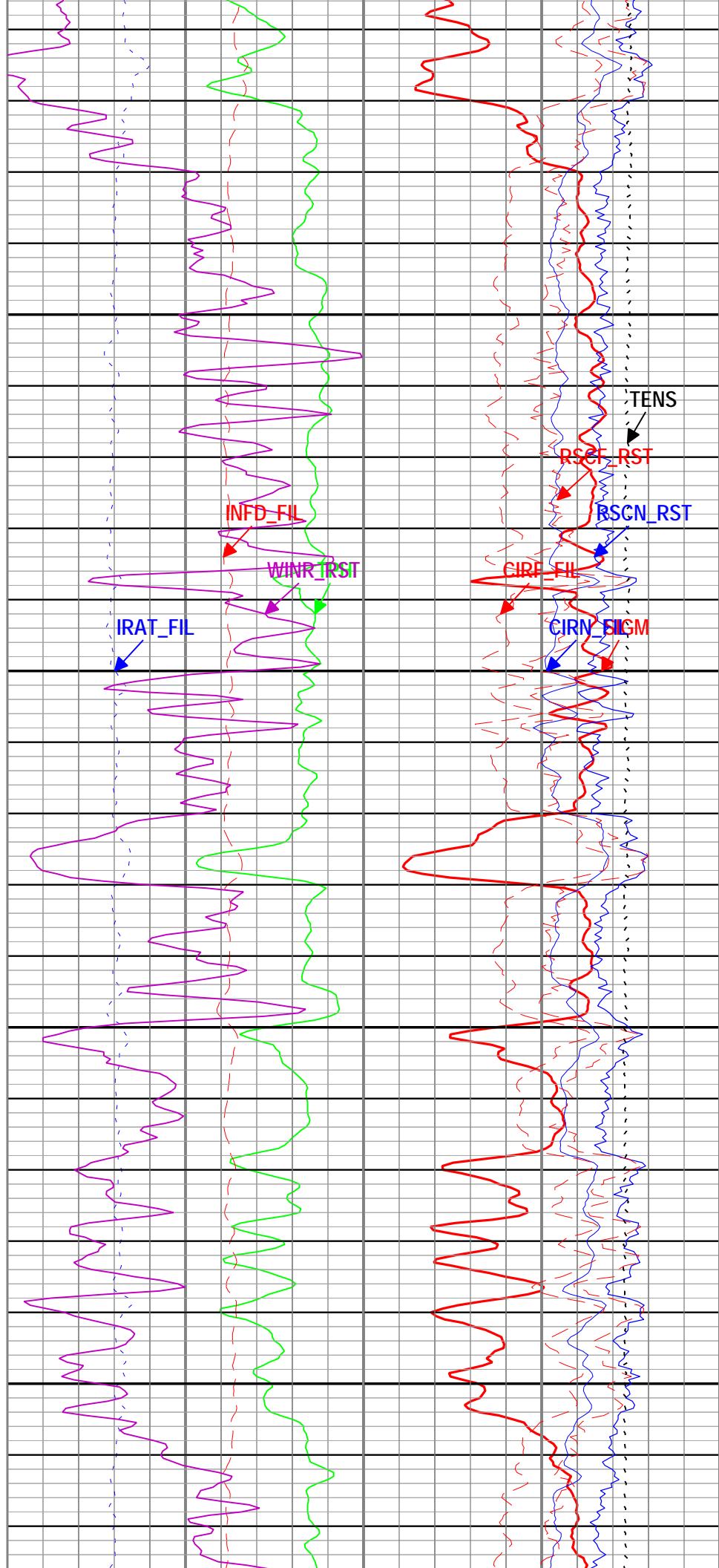
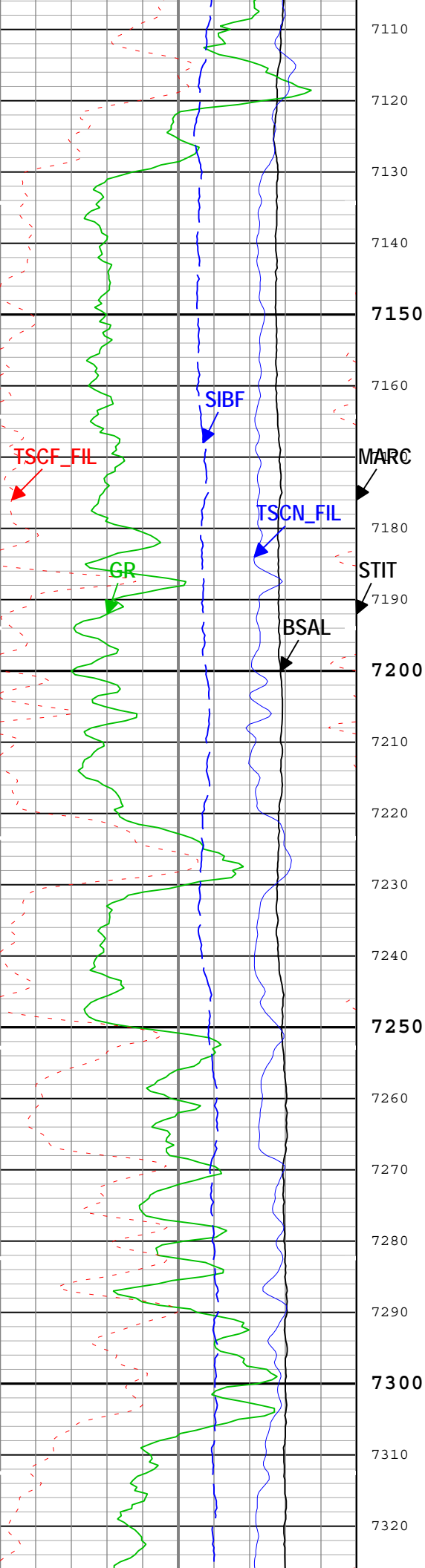


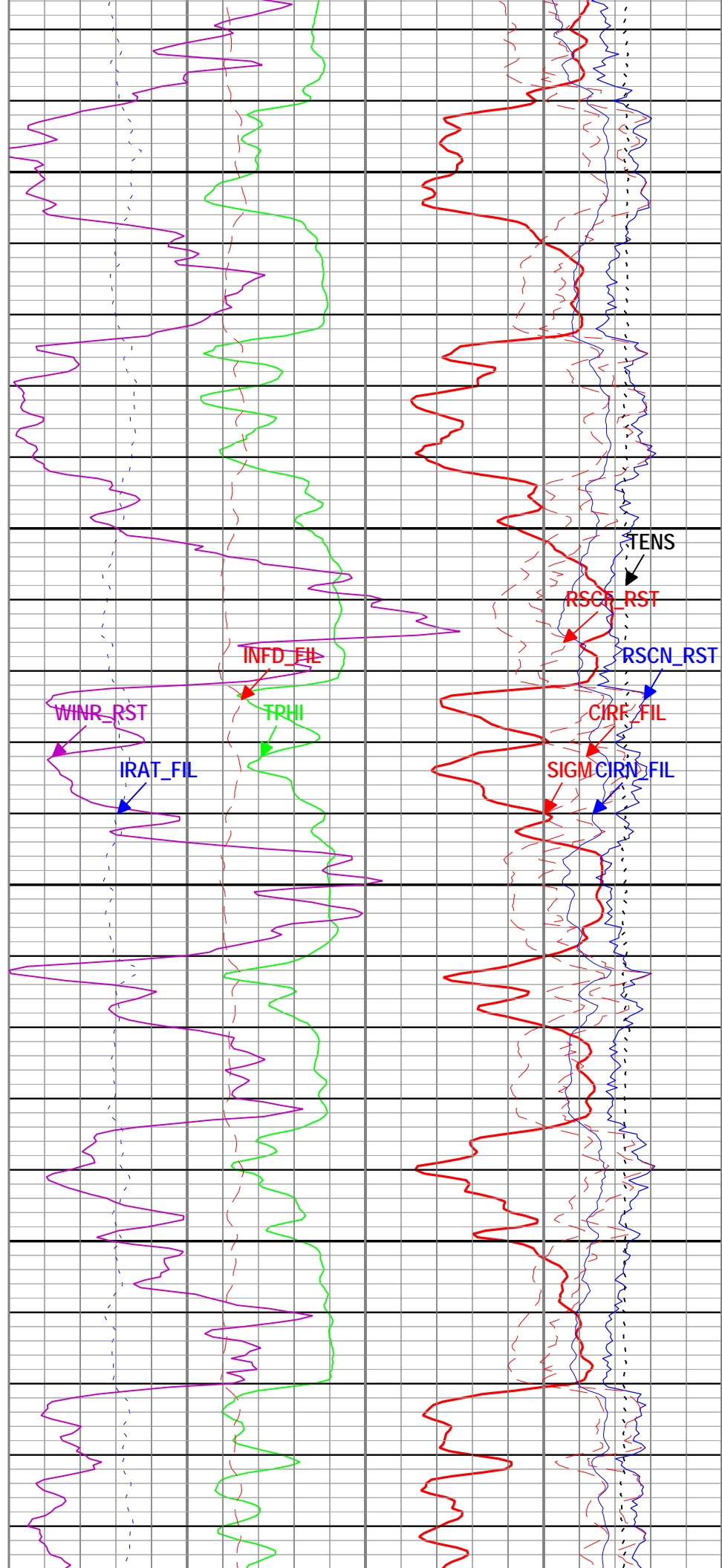
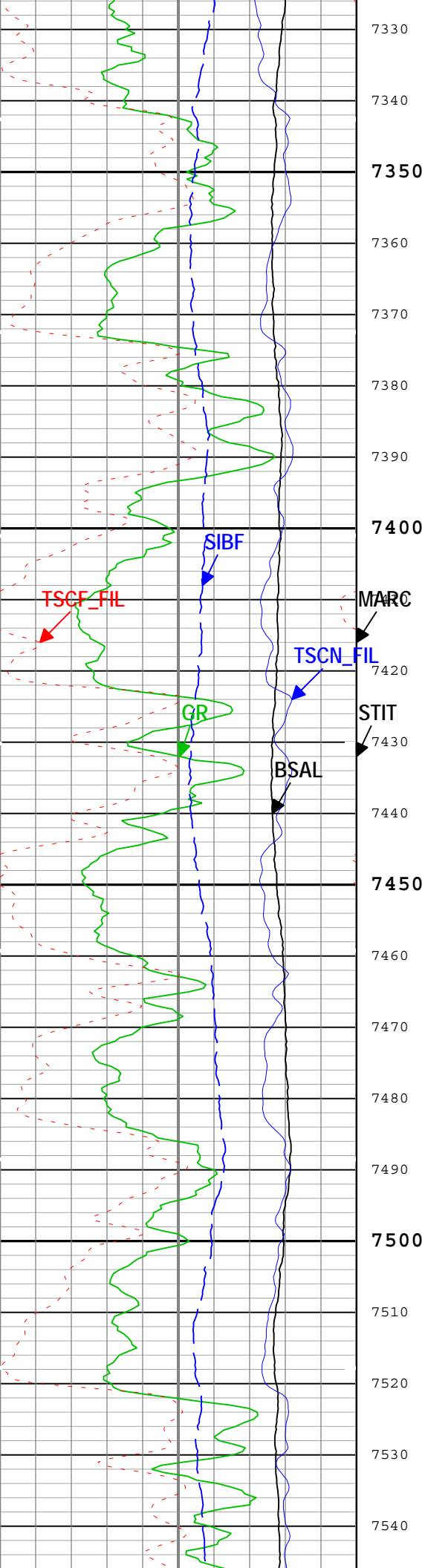


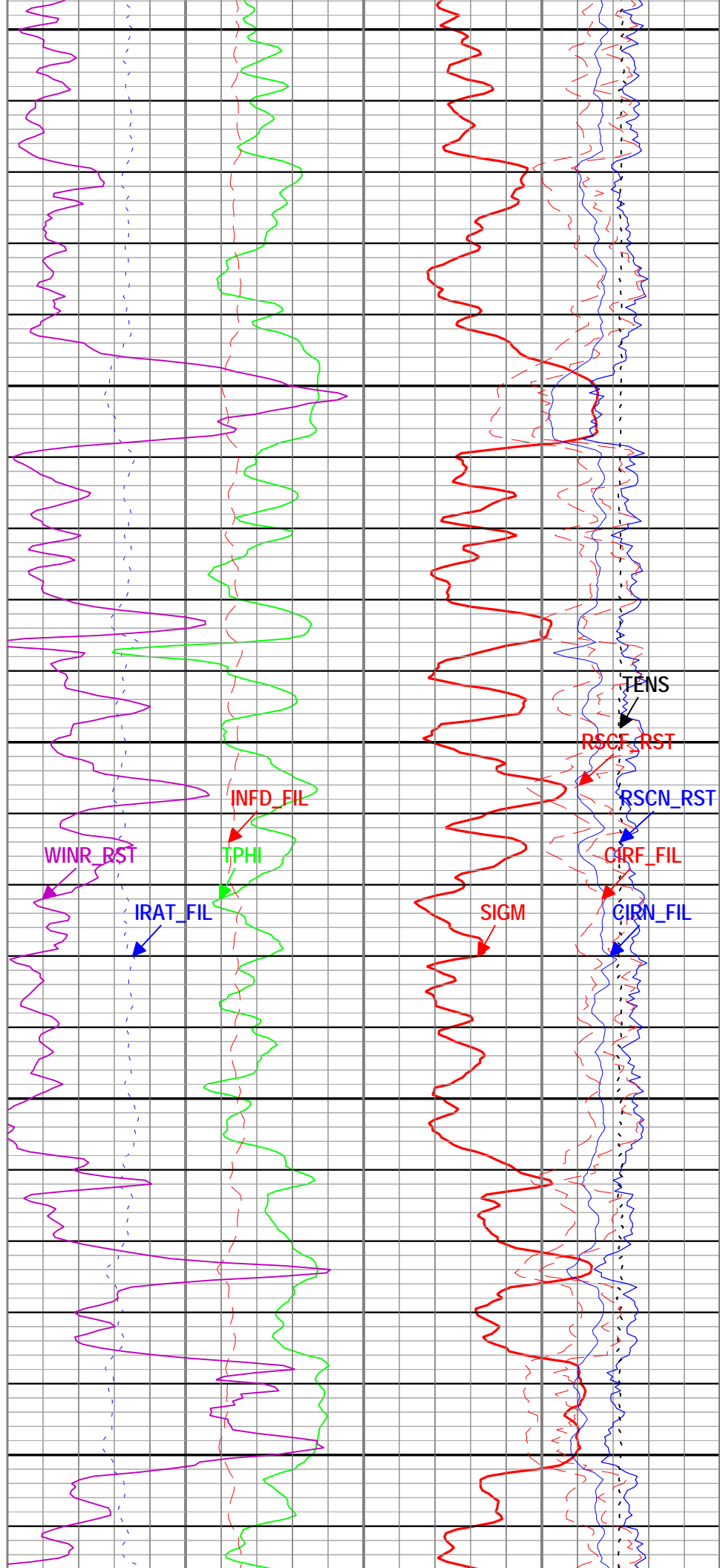
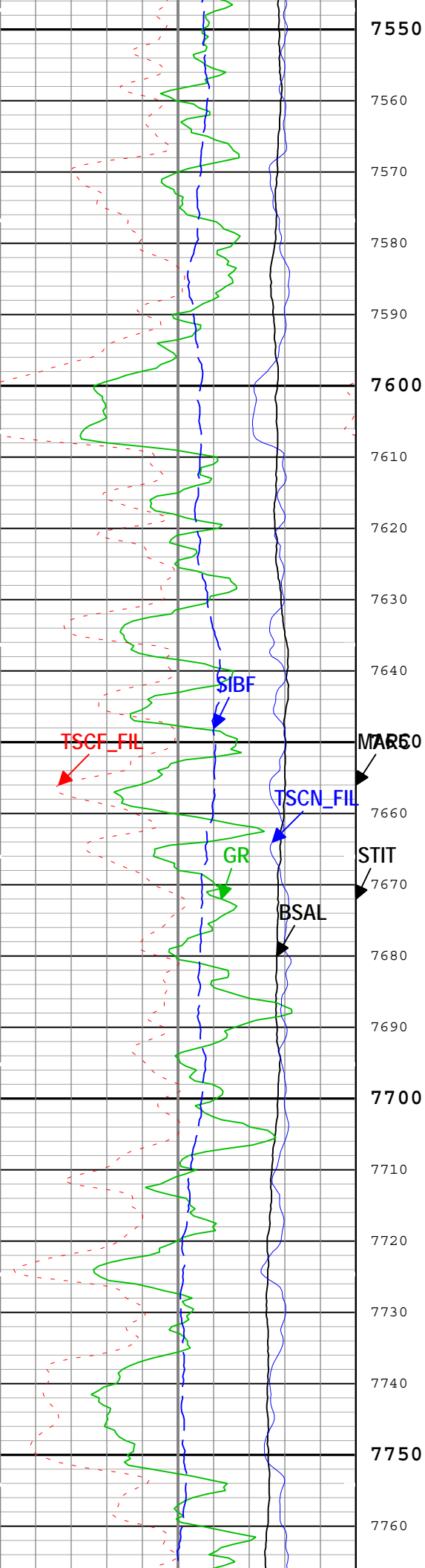


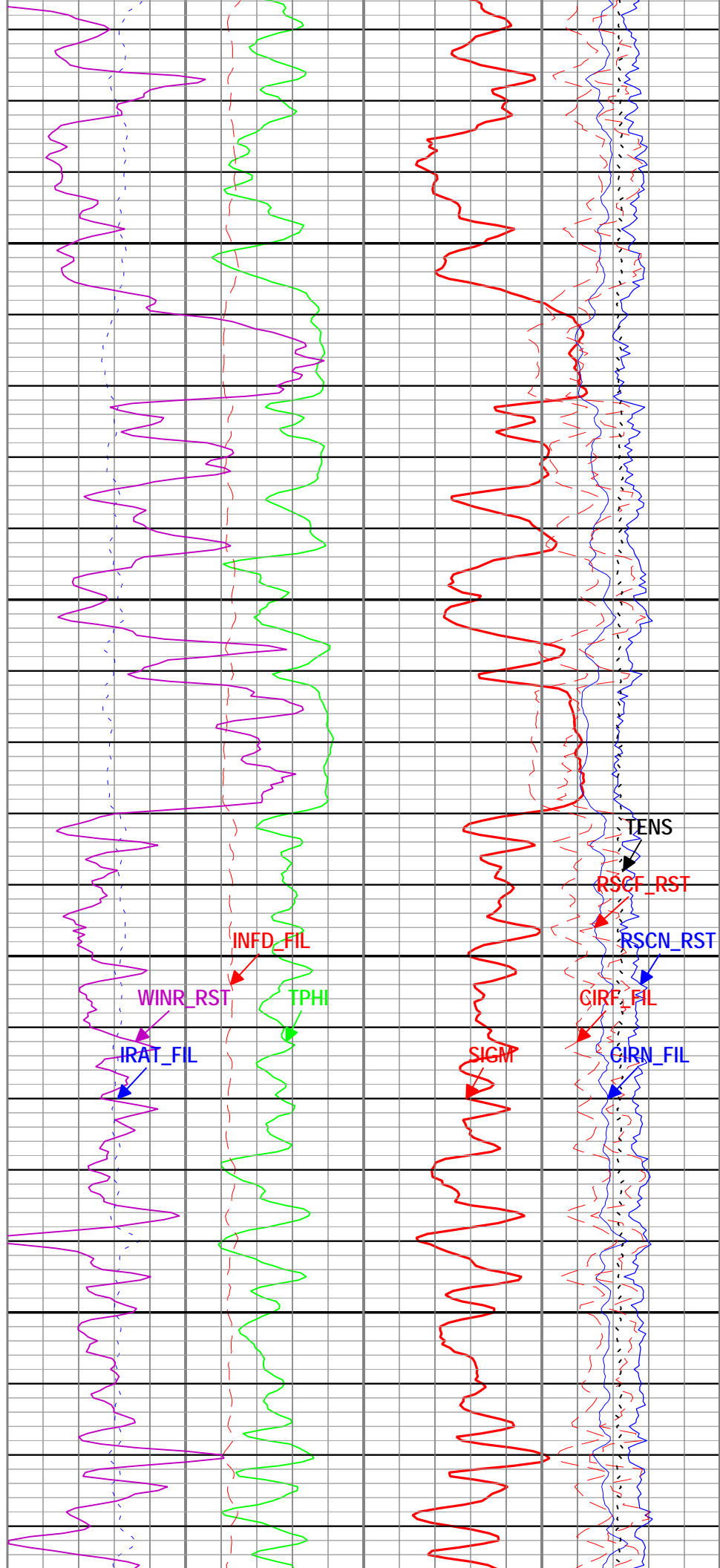
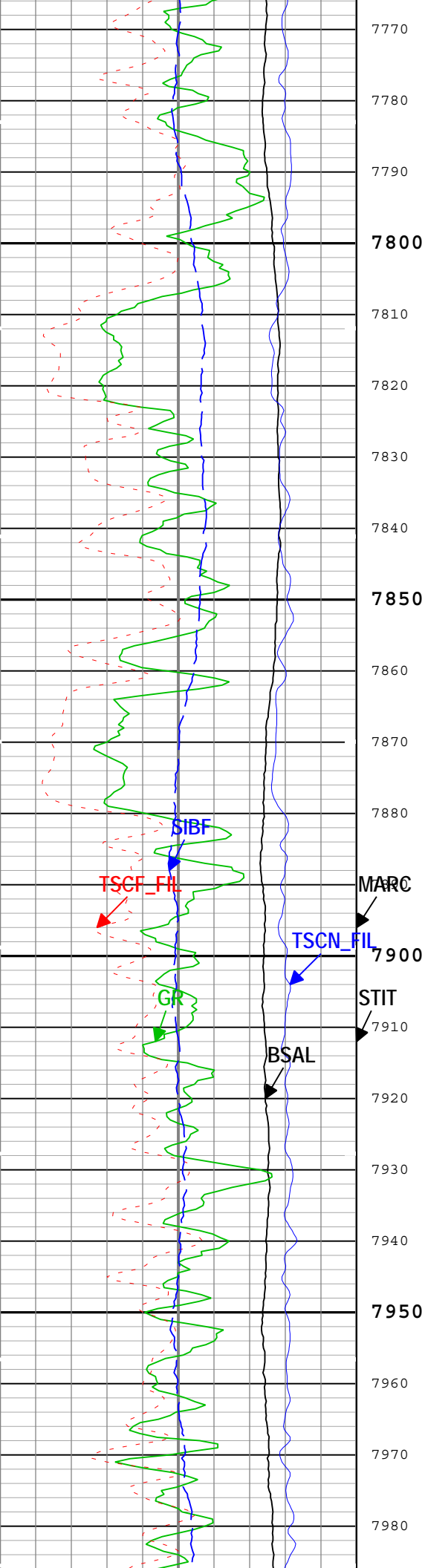


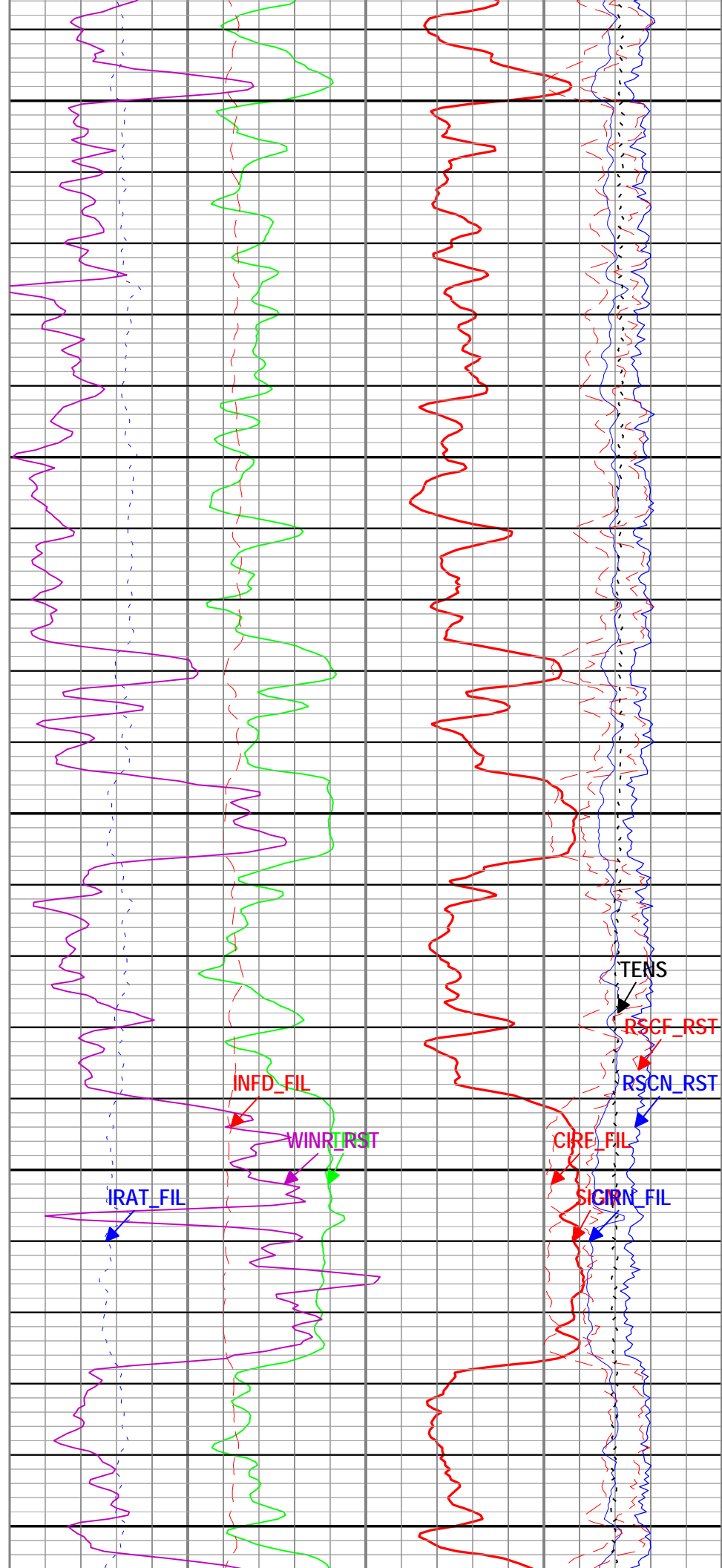
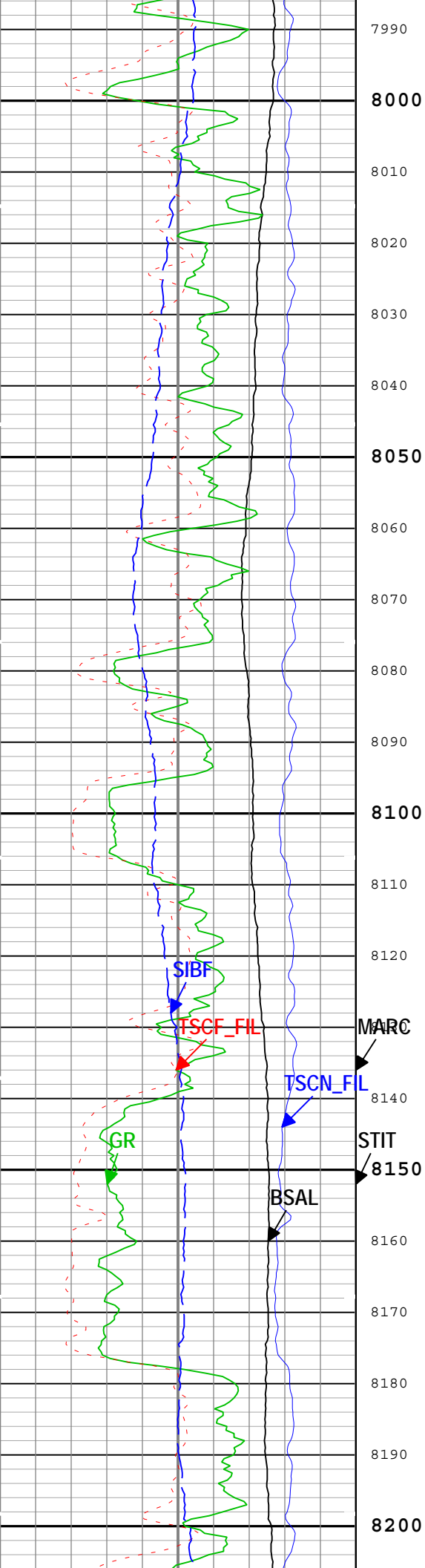


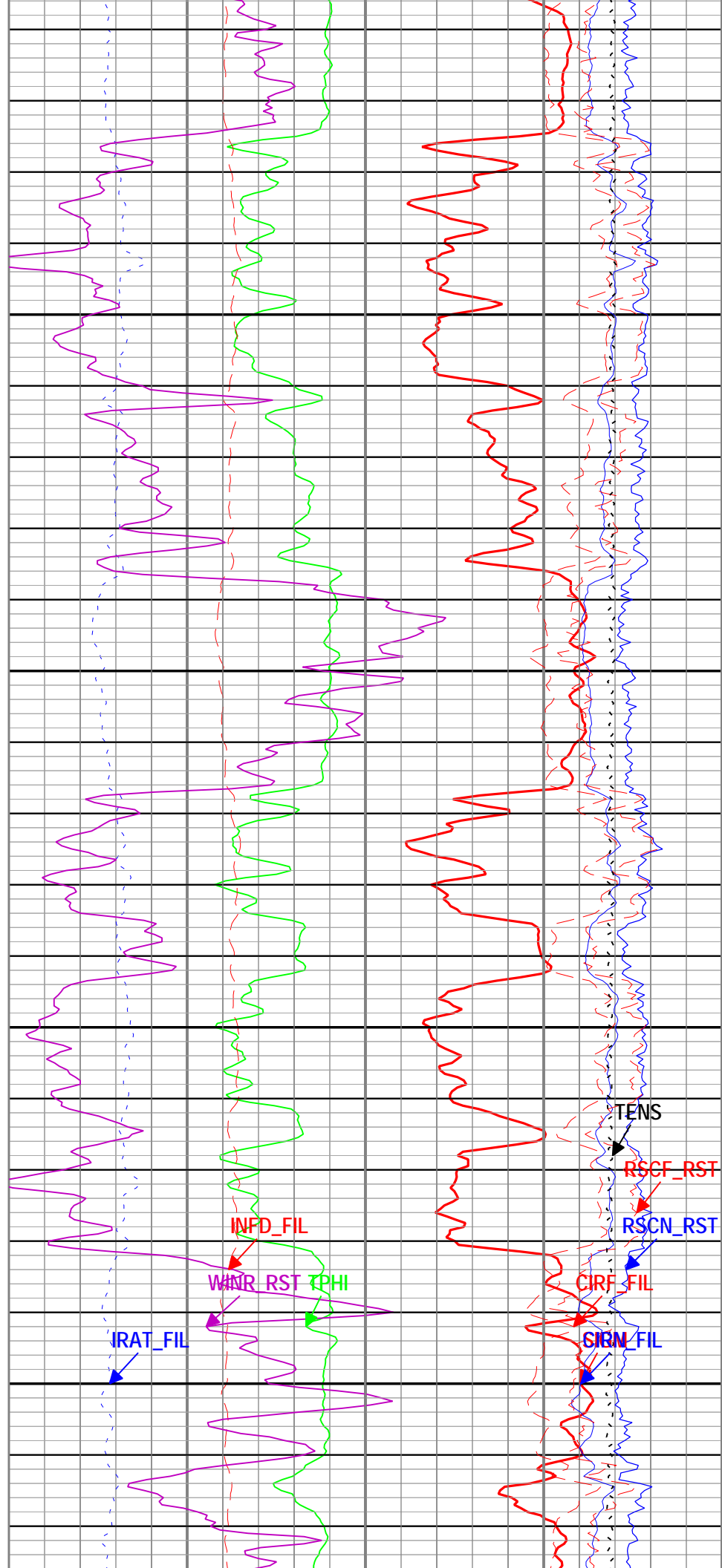
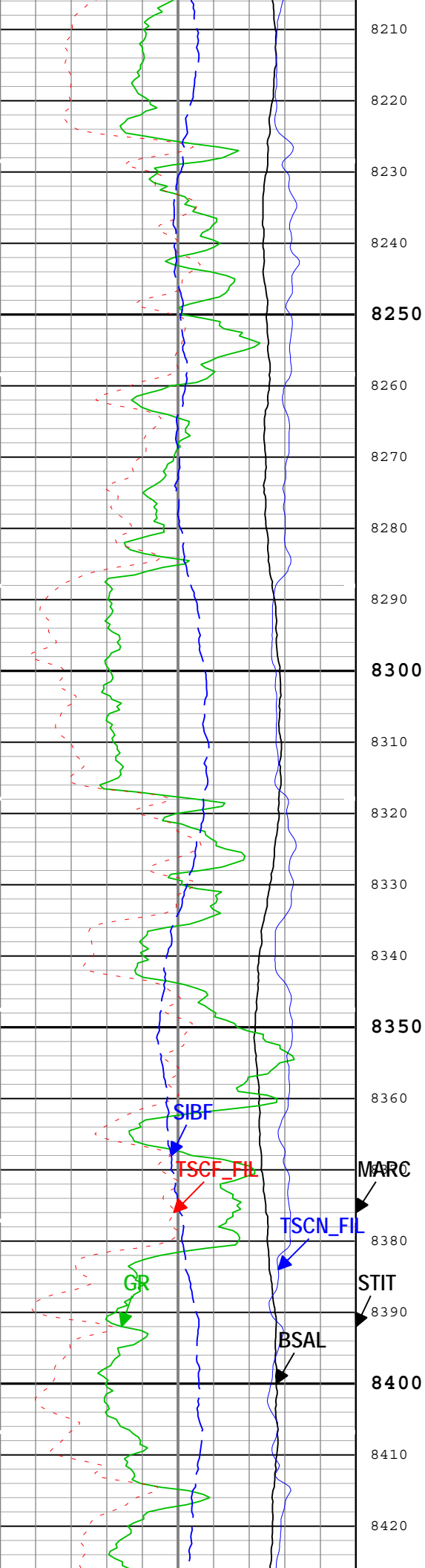


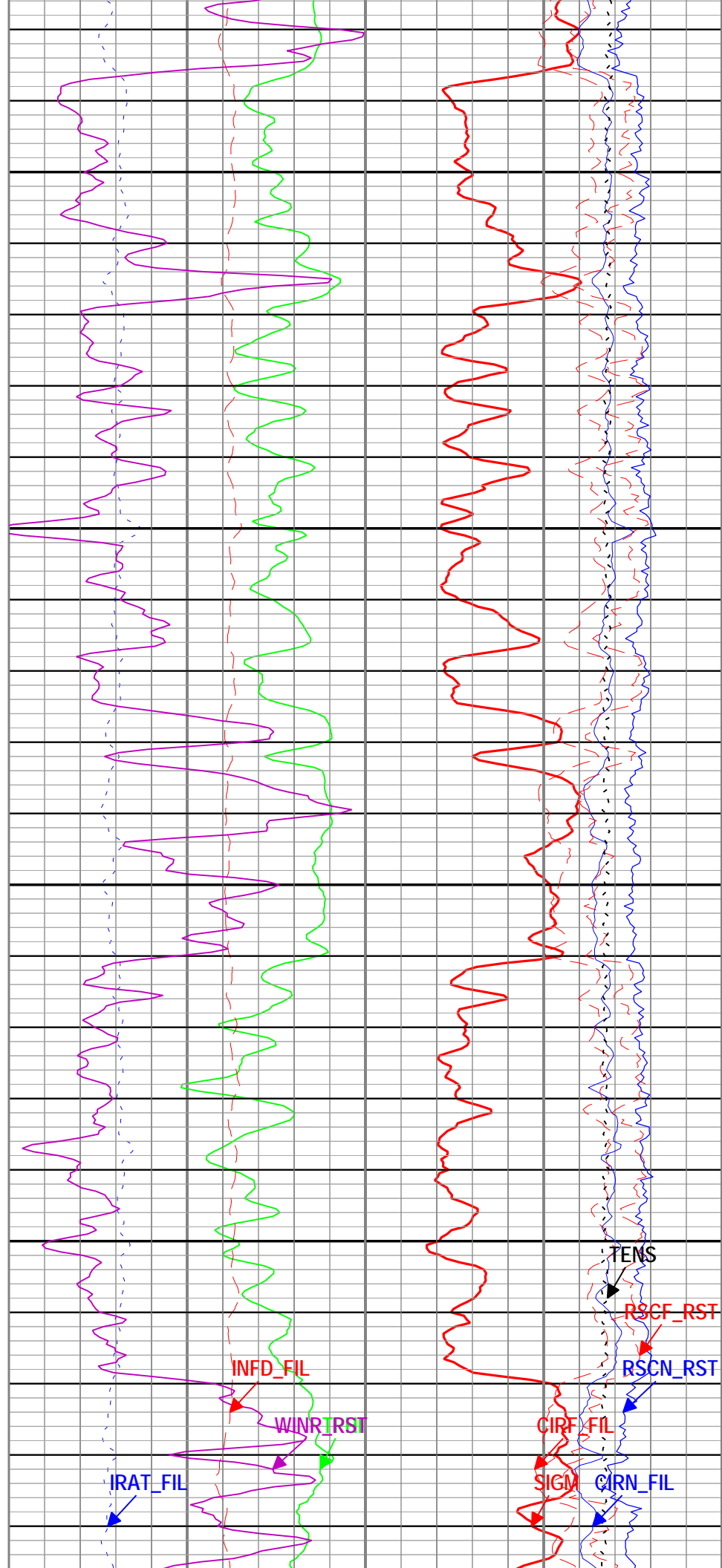
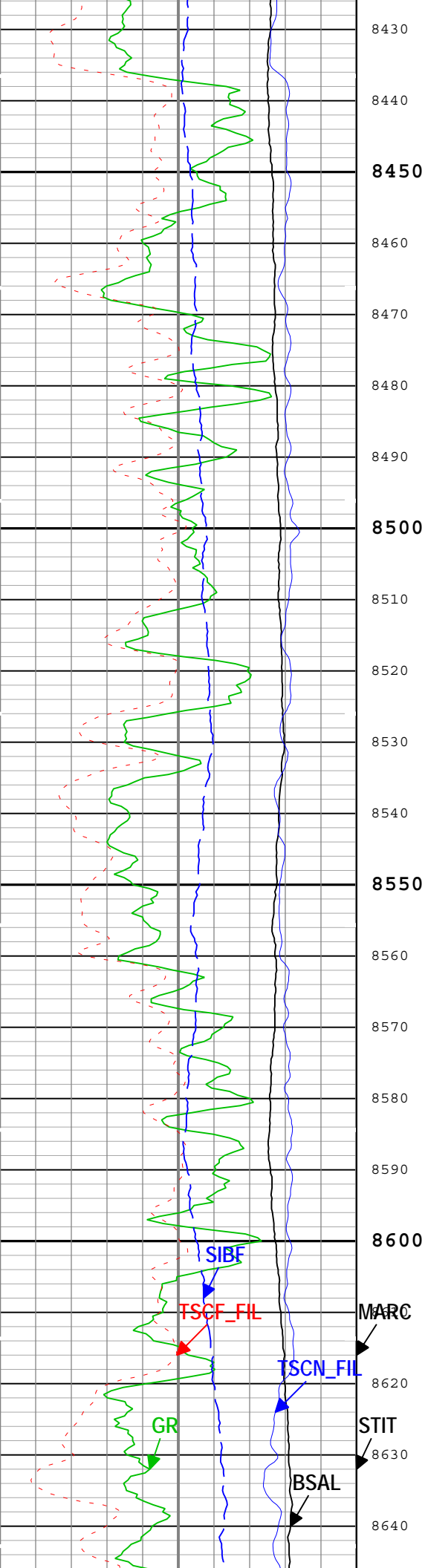


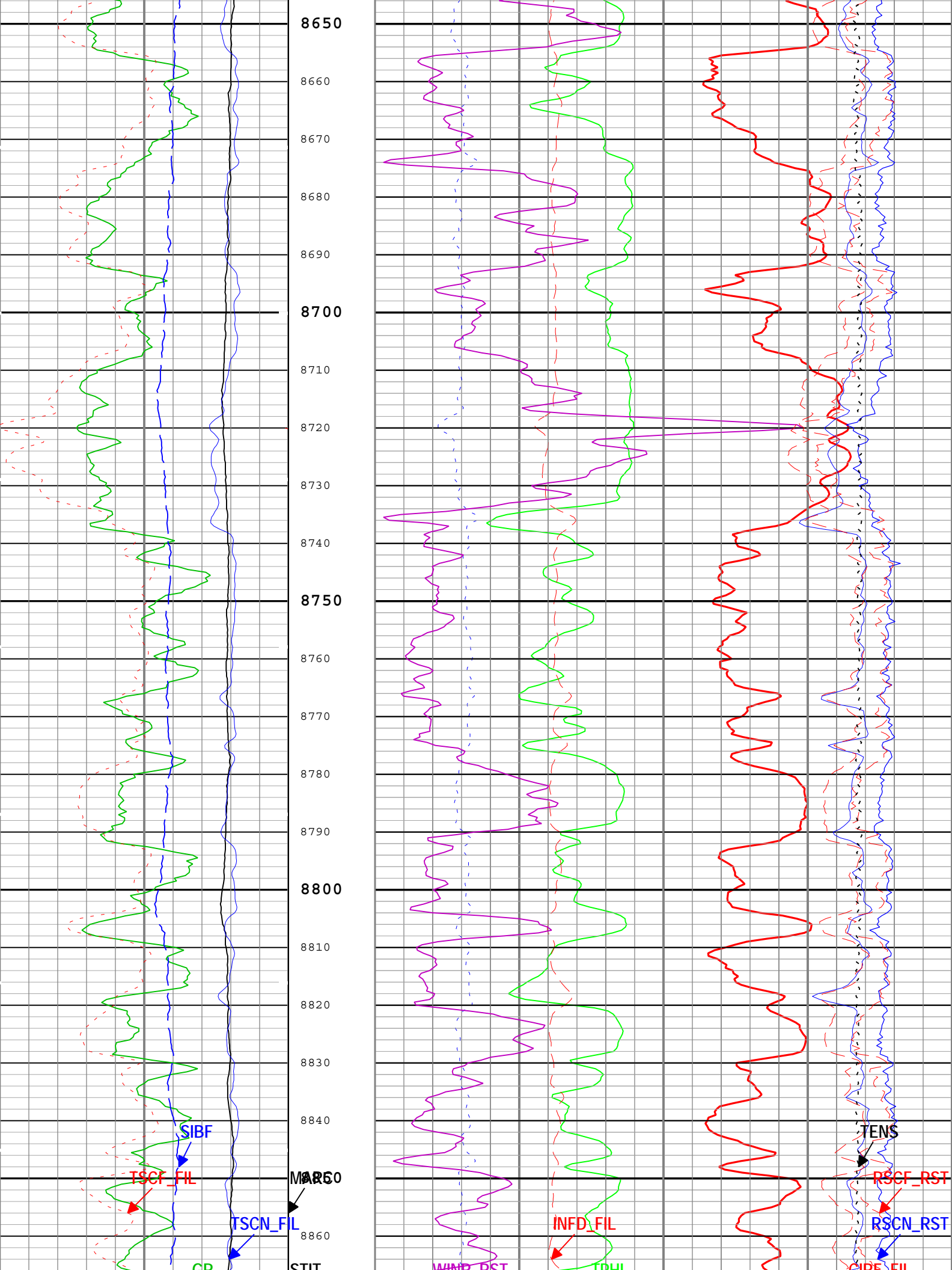


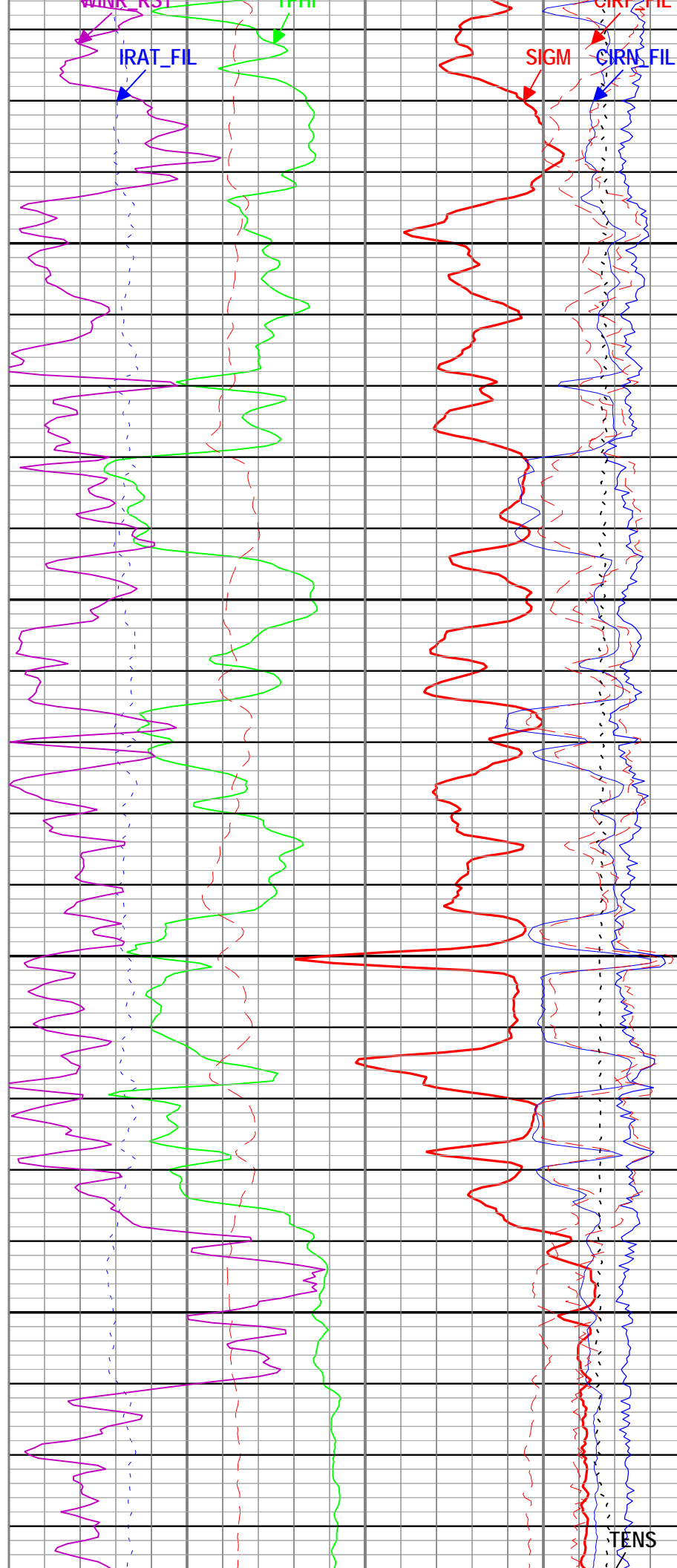
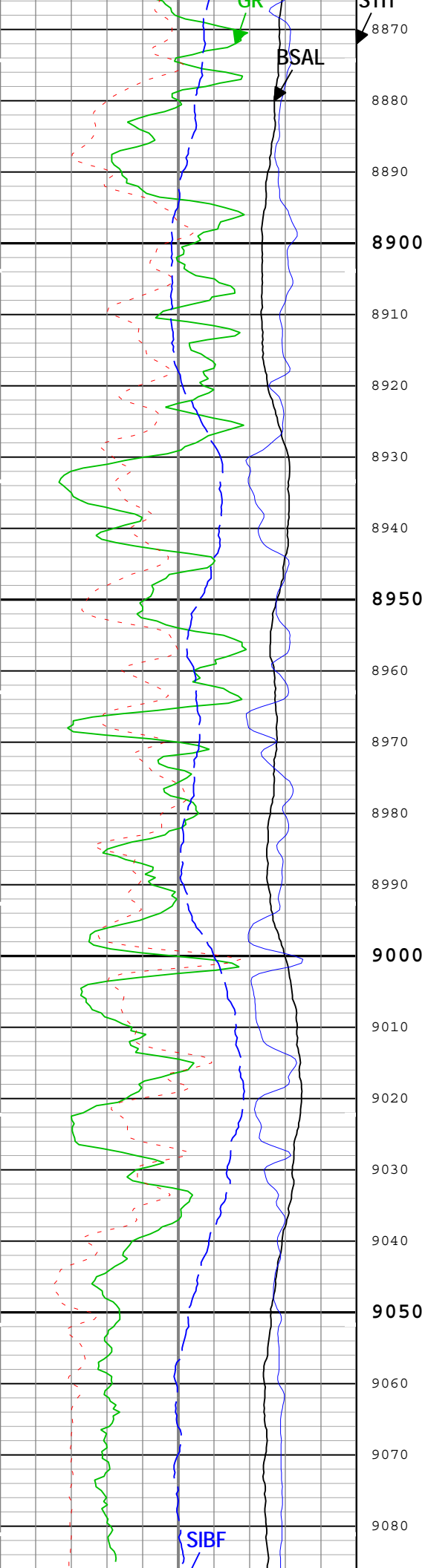


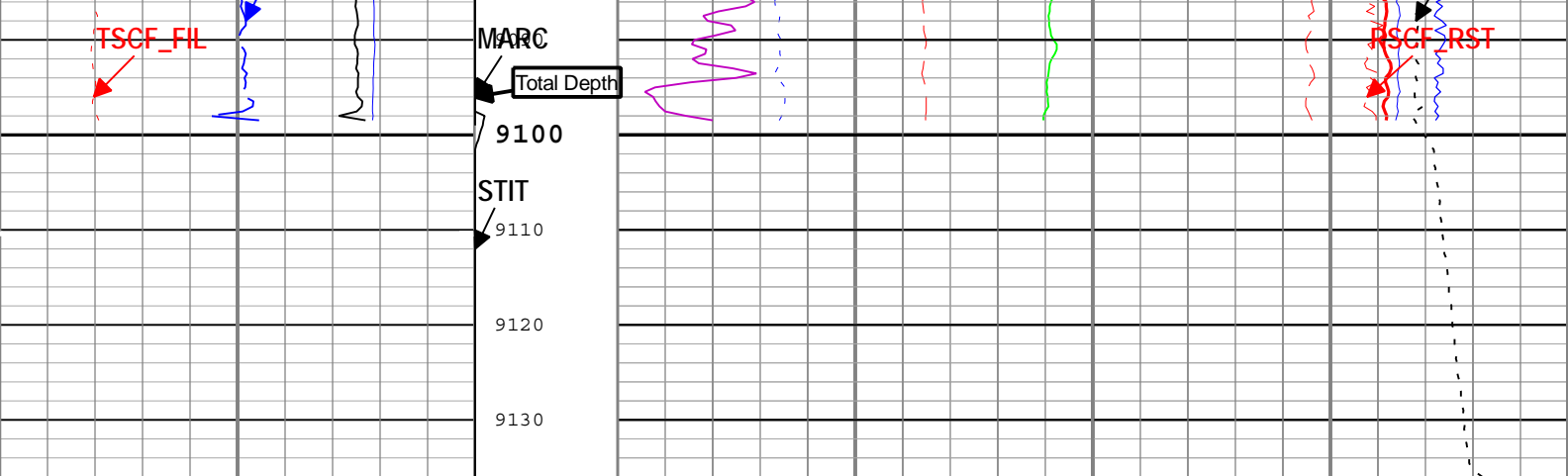












Borehole Salinity (BSAL) RST-C			Stuck Tool Indicator, Total (STIT)	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C				
450	ppk	-50		60	cu	0		
Gamma Ray (GR) PSTP-A			0	ft	50	Weighted Inelastic Ratio (WINR_RST) RST-C		
0	gAPI	150		0			0.4	
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C			Cable Drag From STIA to STIT	Inelastic Ratio Filtered (IRAT_FIL) RST-C		Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C		
30000	1/s	0		0.75	0	2.5	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	0		
Sigma Borehole Fluid (SIBF) RST-C			Minitron Arc Count (MARC) RST-C	Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C		Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C		
100	cu	0		10000	1/s	0	45	0
						Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C		
						45		0
						Cable Tension (TENS)		
					10000	lbf	0	

— ICV - Integrated Cement Volume every 100.00 (ft3)

— ICV - Integrated Cement Volume every 10.00 (ft3)

— IHV - Integrated Hole Volume every 100.00 (ft3)

— IHV - Integrated Hole Volume every 10.00 (ft3)

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

TIME_1900 - Time Marked every 60.00 (s)

Description: RST SIGMA Answer Format: Log (RST SIGMA Answer) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 23-Jul-2015 01:21:02

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	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	14.75	2448	2520
BS	8.75	2520	9136.16

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
RST_DLM	Depth Log Mode	RST-C	Sigma	

ONE

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[2]:Up	Up	8790.63 ft	9119.83 ft	22-Jul-2015 8:34:22 PM	22-Jul-2015 8:46:03 PM	ON	4.69 ft	No
ONE	Log[3]:Up	Up	2499.07 ft	9136.16 ft	22-Jul-2015 9:02:50 PM	23-Jul-2015 12:48:38 AM	ON	8.07 ft	No

All depths are referenced to toolstring zero

Log

Company:Caerus Piceance LLC Well:Puckett 41A-2
ONE: Log[3]:Up:S005

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-2015 01:21:06

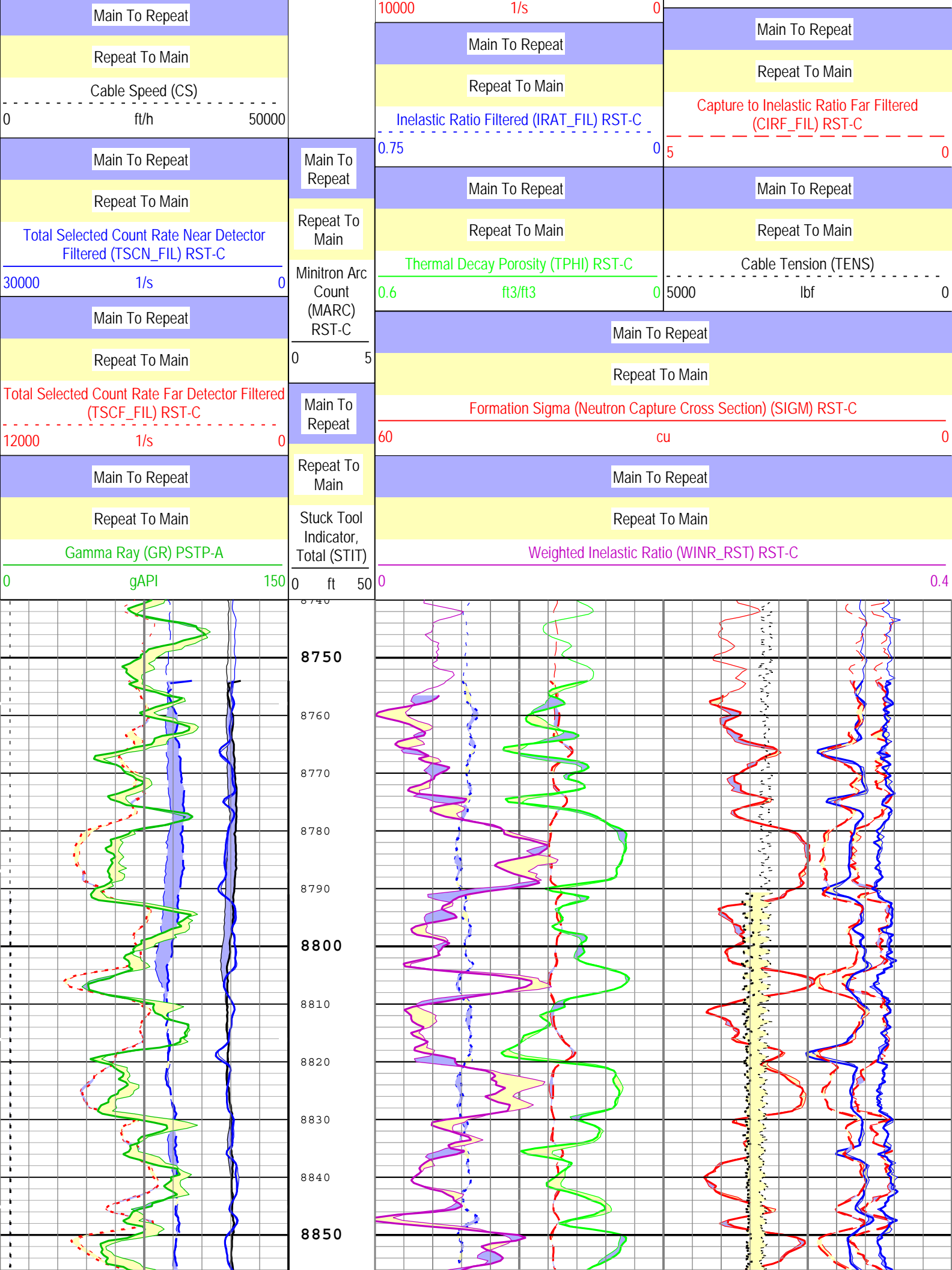
TIME_1900 - Time Marked every 60.00 (s)

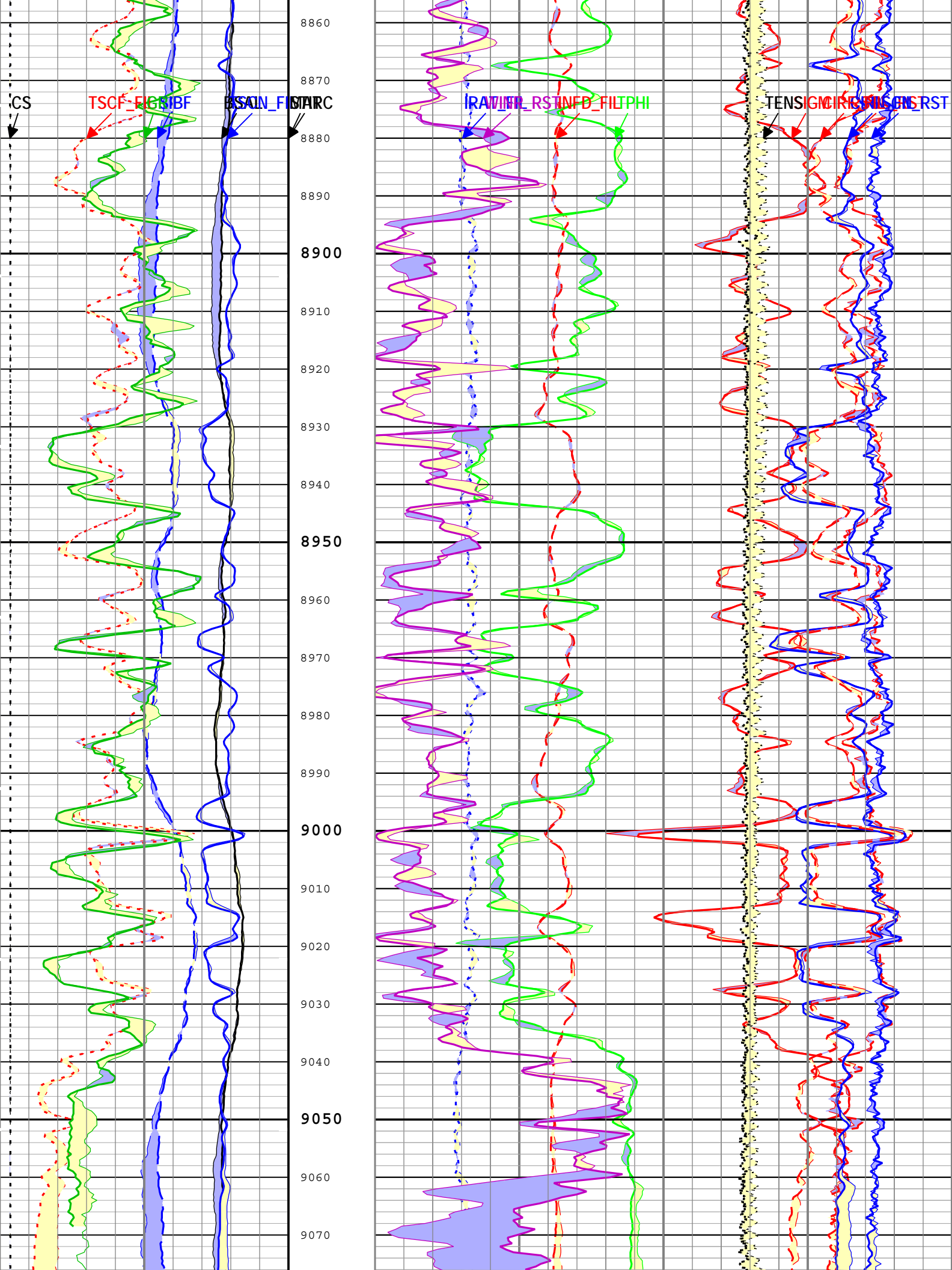
- TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)
- IHV - Integrated Hole Volume every 10.00 (ft3)
- IHV - Integrated Hole Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)
- ICV - Integrated Cement Volume every 100.00 (ft3)

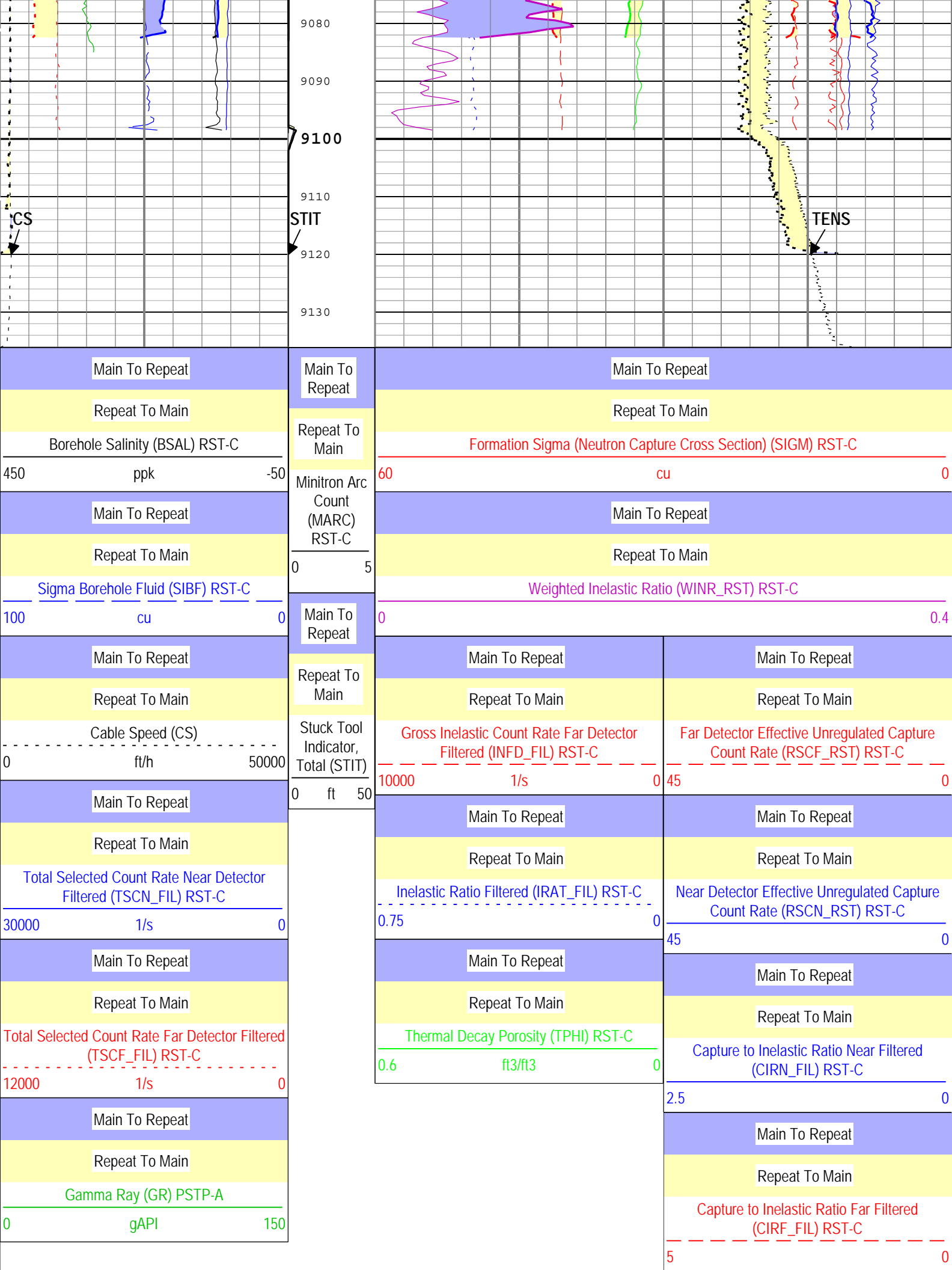
Main To Repeat
Repeat To Main
Borehole Salinity (BSAL) RST-C
450ppk-50
Main To Repeat
Repeat To Main
Sigma Borehole Fluid (SIBF) RST-C
100cu0

Main To Repeat
Repeat To Main
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C

Main To Repeat
Repeat To Main
Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
450
Main To Repeat
Repeat To Main
Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C
450
Main To Repeat
Repeat To Main
Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C
2.50







Main To Repeat

Repeat To Main

Cable Tension (TENS)

5000lbf0

└─ICV - Integrated Cement Volume every 100.00 (ft3)

└─ICV - Integrated Cement Volume every 10.00 (ft3)

└─IHV - Integrated Hole Volume every 100.00 (ft3)

└─IHV - Integrated Hole Volume every 10.00 (ft3)

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

└─TIME_1900 - Time Marked every 60.00 (s)

Description: RST SIGMA Answer Format: Log (RST SIGMA Answer RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 23-Jul-2015 01:21:06

Calibration Report

SCMT-CB (Slim Cement Mapping Tool, 1-11/16 OD) Calibration - Run ONE

Primary Equipment :		
Slim Cement Mapping Sonde	SCMS-CB	8372

CBL and MAP Amplitude Normalization - Measurements

Master (File):10:12:32 22-Jul-2015

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 0 degree) - 0	mV	Master	----	----	----	----	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 90 degree) - 0	mV	Master	----	----	----	----	
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	

MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 180 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
CBL 3 ft Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 1 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 2 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 3 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 4 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 5 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 6 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 7 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>
MAP 8 Temperature/Pressure Compensated Raw Amplitude (at 270 degree) - 0	mV	Master	----	----	----	----	<div><div></div><div></div></div>

CBL and MAP Amplitude Normalization - Coefficients

Master (File): 10:12:32 22-Jul-2015							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
Normalization Temperature in SFT Tube	degF	Master			74.10		<div><div></div><div></div></div>
CBL Correction Factor		Master			0.062		<div><div></div><div></div></div>
MAP 1 Correction Factor		Master			0.090		<div><div></div><div></div></div>
MAP 2 Correction Factor		Master			0.111		<div><div></div><div></div></div>
MAP 3 Correction Factor		Master			0.112		<div><div></div><div></div></div>
MAP 4 Correction Factor		Master			0.112		<div><div></div><div></div></div>
MAP 5 Correction Factor		Master			0.109		<div><div></div><div></div></div>
MAP 6 Correction Factor		Master			0.096		<div><div></div><div></div></div>
MAP 7 Correction Factor		Master			0.094		<div><div></div><div></div></div>
MAP 8 Correction Factor		Master			0.104		<div><div></div><div></div></div>

CBL and MAP Amplitude Adjustment - Measurements

Before (Measured): 00:54:22 23-Jul-2015							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
CBL Amplitude	mV	Before			112.56		<div><div></div><div></div></div>
Average MAP Amplitude (Fluid Compensated)	mV	Before			133.52		<div><div></div><div></div></div>
Measurement Depth	ft	Before			2490.95		<div><div></div><div></div></div>

CBL and MAP Amplitude Adjustment - Coefficients

Before (Measured): 00:54:22 23-Jul-2015							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
CBL Adjustment Factor		Before			0.711		<div><div></div><div></div></div>
CBL LQC Reference Amplitude in Free Pipe	mV	Before			80.00		<div><div></div><div></div></div>
MAP Adjustment Factor		Before			0.749		<div><div></div><div></div></div>
Depth of Before Calibration	ft	Before			2490.95		<div><div></div><div></div></div>

RST-C (Reservoir Saturation Pro Tool C) Calibration - Run ONE

Primary Equipment : RSC Acquisition Cartridge RSC-E 381							
---------------------------------------------------------	--	--	--	--	--	--	--

RST IC Tank Calibration - RST IC Tank Calibration

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Spectral Acquisition Time Calibration Coefficient - 0	s	Master	----	----	----	----	
Near Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	
Far Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	
Near Windows Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	
Far Windows Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	
Near IC Mode Capture Optimization Resolution Degradation Factor Calibration Coefficient - 0		Master	----	----	----	----	
Far IC Mode Capture Optimization Resolution Degradation Factor Calibration Coefficient - 0		Master	----	----	----	----	
Near Pulse Shape Compensation Voltage Setting Echo Calibration Coefficient - 0	V	Master	----	----	----	----	
Far Pulse Shape Compensation Voltage Setting Echo Calibration Coefficient - 0	V	Master	----	----	----	----	
Near Photomultiplier High Voltage Setting Echo Calibration Coefficient - 0	V	Master	----	----	----	----	
Far Photomultiplier High Voltage Setting Echo Calibration Coefficient - 0	V	Master	----	----	----	----	
Minitron Measured Beam Current Calibration Coefficient - 0	uA	Master	----	----	----	----	
Grid Current Peak Calibration Coefficient - 0	mA	Master	----	----	----	----	
Minitron Measured Extractor Current Calibration Coefficient - 0	uA	Master	----	----	----	----	
Minitron Measured High Voltage Calibration Coefficient - 0	kV	Master	----	----	----	----	
Near Instantaneous Count Rate Calibration Coefficient - 0	kHz	Master	----	----	----	----	
Near/Far Count Rate Ratio Calibration Coefficient - 0		Master	----	----	----	----	

RST IC Tank Check - RST IC Tank Check

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Spectral Acquisition Time Calibration Coefficient	s	Master			NOT DONE		
Near Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	
Far Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	
Near Windows Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	
Far Windows Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	
Near IC Mode Capture Optimization Resolution Degradation Factor Calibration Coefficient - 0		Master	----	----	----	----	
Far IC Mode Capture Optimization Resolution Degradation Factor Calibration Coefficient - 0		Master	----	----	----	----	
Near Pulse Shape Compensation Voltage Setting Echo Calibration Coefficient - 0	V	Master	----	----	----	----	
Far Pulse Shape Compensation Voltage Setting Echo Calibration Coefficient - 0	V	Master	----	----	----	----	
Near Photomultiplier High Voltage Setting Echo Calibration Coefficient - 0	V	Master	----	----	----	----	
Far Photomultiplier High Voltage Setting Echo Calibration Coefficient - 0	V	Master	----	----	----	----	
Minitron Measured Beam Current Calibration Coefficient - 0	uA	Master	----	----	----	----	
Grid Current Peak Calibration Coefficient - 0	mA	Master	----	----	----	----	
Minitron Measured Extractor Current Calibration Coefficient - 0	uA	Master	----	----	----	----	
Minitron Measured High Voltage Calibration Coefficient - 0	kV	Master	----	----	----	----	
Near Instantaneous Count Rate Calibration Coefficient	kHz	Master			NOT DONE		
Near/Far Count Rate Ratio Calibration Coefficient		Master			NOT DONE		

RST Sigma Tank Check - RST Sigma Tank Check

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Spectral Acquisition Time Calibration Coefficient	s	Master		300.0	300.3		
Near/Far Capture Ratio Calibration Coefficient		Master	0.980	0.930	0.982	1.030	
Sigma Formation Near Apparent Calibration Coefficient - 0	1/m	Master	----	----	----	----	
Sigma Formation Far Apparent Calibration Coefficient - 0	1/m	Master	----	----	----	----	
Near Pulse Shape Compensation Voltage Setting Echo Calibration Coefficient	V	Master	3.500	2.445	3.700	4.555	
Far Pulse Shape Compensation Voltage Setting Echo Calibration Coefficient	V	Master	3.325	2.095	2.433	4.555	
Near Photomultiplier High Voltage Setting Echo Calibration Coefficient	V	Master	1400.000	1100.000	1145.795	1700.000	
Far Photomultiplier High Voltage Setting Echo Calibration Coefficient	V	Master	1400.000	1100.000	1183.172	1700.000	
Minitron Measured Beam Current Calibration Coefficient	uA	Master	75.000	50.000	85.102	100.000	
Grid Current Peak Calibration Coefficient	mA	Master	60.000	58.000	60.036	62.000	
Minitron Measured Extractor Current Calibration Coefficient	uA	Master	499.500	0	0.000	999.000	
Minitron Measured High Voltage Calibration Coefficient	kV	Master	73.000	50.000	80.028	96.000	
Near Instantaneous Count Rate Calibration Coefficient	kHz	Master	400.000	340.000	349.576	460.000	
Near/Far Count Rate Ratio Calibration Coefficient		Master	1.300	1.000	1.471	1.600	

PSTP-A (PSP Telemetry Platform A - Sapphire) Calibration - Run ONE

Primary Equipment :			
PBMS-A		PBMS-A	1814
Calibration Parameter :			
JIG-BKGD (Jig minus background reference)		150	

PBMS Gamma Ray Check - PBMSA Gamma Ray Accumulations

Before (Measured):		11:24:31 22-Jul-2015		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
GR Zero Average	gAPI	Before	30	0	84.70583	120	
		After	----	----	----	----	
		After-Before	----	----	----	----	
GR Zero Standard Deviation	gAPI	Before			31.55005		
		After	----	----	----	----	
		After-Before	----	----	----	----	
GR Zero Max Deviation	gAPI	Before			108.3667		
		After	----	----	----	----	
		After-Before	----	----	----	----	
GR Plus Average	gAPI	Before			226.5573		
		After	----	----	----	----	
		After-Before	----	----	----	----	
GR Plus Standard Deviation	gAPI	Before			53.35671		
		After	----	----	----	----	
		After-Before	----	----	----	----	
GR Plus Max Deviation	gAPI	Before			223.9452		
		After	----	----	----	----	
		After-Before	----	----	----	----	
Jig-Background	gAPI	Before	150	135	141.8515	165	
		After			NOT DONE		
		After-Before	----	----	----	----	

PBMS Well Temp Master Calibration

Master (EEPROM): 00:00:00 11-Mar-2002

PBMS_RTD_THERM RTD Coefficients
(Master)

	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tt**0	166.2169	-442.9836	222.5367	-39.3639	2.621679	0

PBMS Gamma Ray Master Calibration

Master (EEPROM):		00:00:00 14-Nov-2001				
PBMS_GR_MODEL (Master)		GR Coefficients				
		Rt**0		Rt**1		
Rt**0		1500		3840		

PBMS A Reference Clock Master Calibration

Master (EEPROM):		00:00:00 11-Mar-2002				
PBMS_REF_CLOCK (Master)		PBMS A Clock Coefficients				
	Temp**0	Temp**1	Temp**2	Temp**3	Temp**4	Temp**5
Temp**0	-278.6698	2.064625	-0.2005075	0.001553137	-2.817383E-07	0

PBMS A Sapphire Master Calibration

Master (EEPROM):		00:00:00 11-Mar-2002				
PBMS_P_GAUGE_PRE (Master)		Sapphire Pressure Model Coefficients				
	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tp**0	-30895.39	22304.77	-7131.54	1088.081	-64.84312	0
Tp**1	22708.98	-15815.74	5200.516	-813.7849	49.69807	0
Tp**2	-206.2166	83.83393	-9.064614	0	0	0
Tp**3	3.194887	-0.7157836	0	0	0	0
Tp**4	0	0	0	0	0	0
Tp**5	0	0	0	0	0	0
PBMS_P_GAUGE_TEMP (Master)		Sapphire Temperature Model Coefficients				
	Tp**0	Tp**1	Tp**2	Tp**3	Tp**4	Tp**5
Tt**0	2222.343	-1.531535	-1.735451	0.3578298	-0.04106665	0
Tt**1	-1381.82	3.050812	0.4269152	-0.03685322	0.004793864	0
Tt**2	302.3562	-1.086123	-0.04274265	0	0	0
Tt**3	-23.36074	0.1179722	0	0	0	0
Tt**4	0	0	0	0	0	0
Tt**5	0	0	0	0	0	0

Company:	Caerus Piceance LLC	Schlumberger
Well:	Puckett 41A-2	
Field:	Wildcat	
County:	Garfield	
State:	Colorado	
Reservoir Saturation Tool		
Sigma		