

Company: Caerus Piceance LLC

Well: Puckett 41D-2

Field: Wildcat

County: Garfield State: Colorado

Reservoir Saturation Tool

Sigma

County:	Garfield	Location:	Sec. 2, T7S, R97W	Elev.:	K.B.	8507.00 ft
Field:	Wildcat		SHL: 2175' FNL x 661' FEL		G.L.	8477.00 ft
Location:	Sec. 2, T7S, R97W	Permanent Datum:	Ground Level	Elev.:	8477.00 f	
Well:	Puckett 41D-2	Log Measured From:	Kelly Bushing	30.00 ft	above Perm.Datum	
Company:	Caerus Piceance LLC	Drilling Measured From:	Kelly Bushing			
	API Serial No.	Section:	Township:	Range:		
	5-045-22623	2	7S	97W		

Logging Date	20-Jul-2015		
Run Number	Run 1		
Depth Driller	8934.00 ft		
Schlumberger Depth	8934.00 ft		
Bottom Log Interval	8885.00 ft		
Top Log Interval	2500.00 ft		
Casing Fluid Type	3% KCl		
Salinity			
Density	9.1 lbm/gal		
Fluid Level	0.00 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.75 in		
From	2515.00 ft		
To	8934.00 ft		
Casing/Tubing Size	4.5 in		
Weight	11.6 lbm/ft		
Grade	P110		
From	0.00 ft		
To	8934.00 ft		
Max Recorded Temperatures	228.2 degF		
Logger on Bottom	20-Jul-2015	09:50:00	
Unit Number	Location:	Time	
Recorded By	9115	Aleksei Bekhterev	Ft. Morgan, CO
Witnessed By	Natalie Naeve		

Disclaimer

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11.2 Log (RST SIGMA Answer RA)

12. Run 1

12.1 Integration Summary

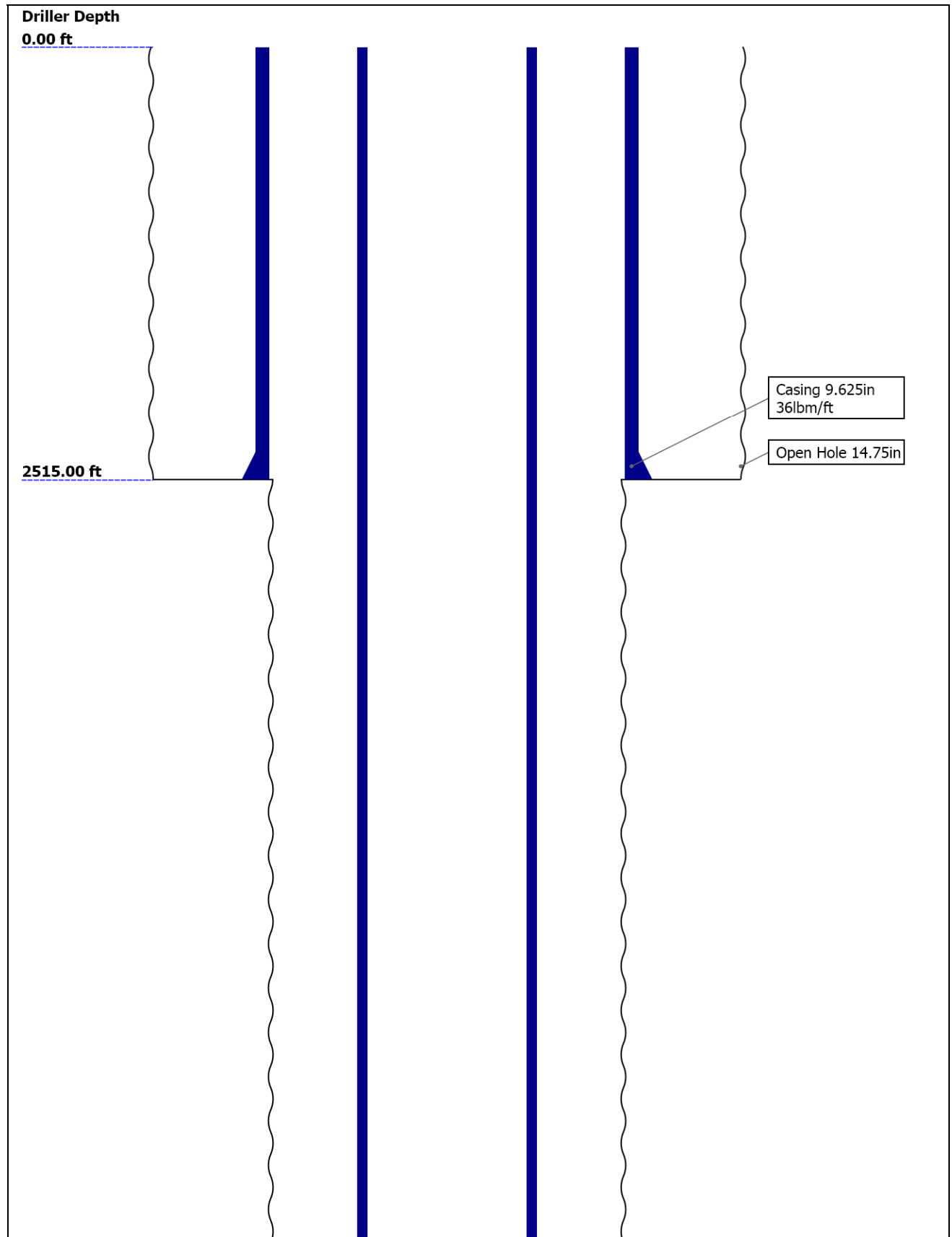
12.2 Software Version

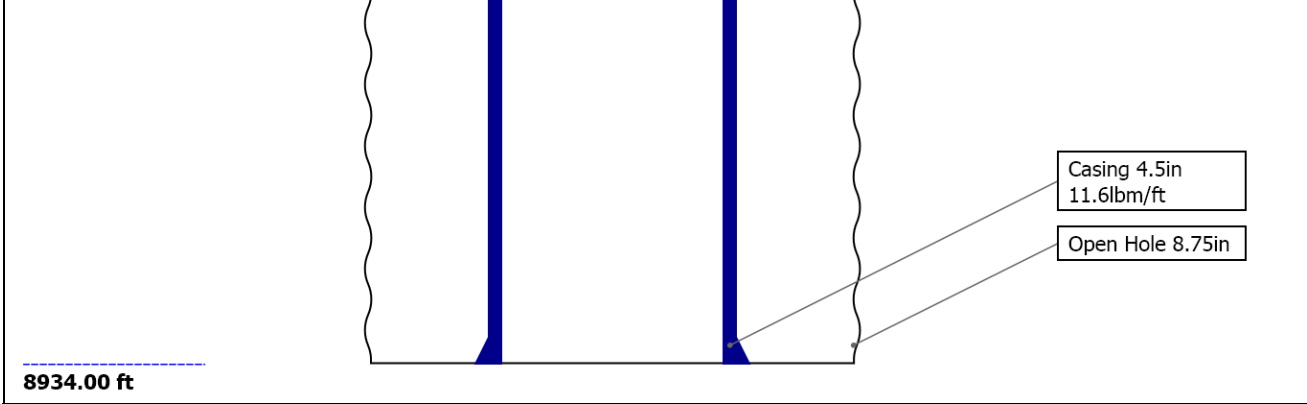
12.3 Composite Summary

12.4 Log (RST SIGMA Quality)

12.5 Parameter Listing

Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	14.75	8.75				
Top Driller (ft)	0	2515				
Top Logger (ft)	0	2515				
Bottom Driller (ft)	2515	8934				
Bottom Logger (ft)	2515	8934				
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)	2515	8934				
Bottom Logger (ft)	2515	8934				

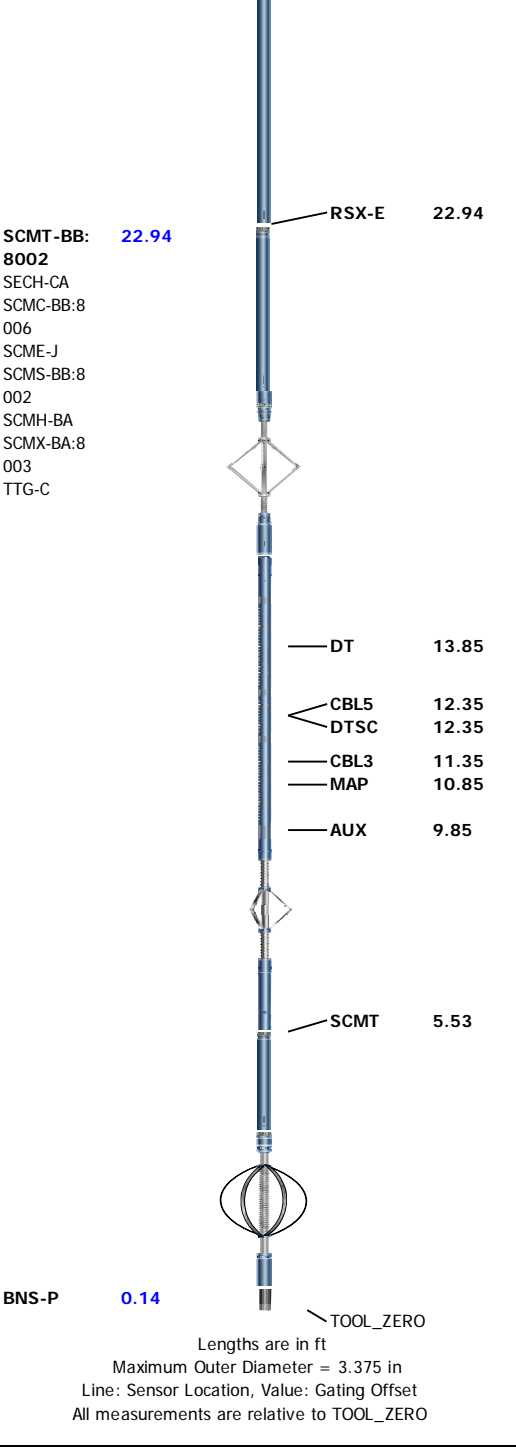
Operational Run Summary

Parameter (unit)	Run 1					
Date Log Started	20-Jul-2015					
Time Log Started	08:27:32					
Date Log Finished	20-Jul-2015					
Time Log Finished	15:09:35					
Top Log Interval (ft)	2500.00					
Bottom Log Interval (ft)	8885.00					
Total Depth (ft)	8897.00					
Max Hole Deviation (deg)	0.00					
Azimuth of Max Deviation (deg)	0.00					
Bit Size (in)	8.750					
Logging Unit Number	9115					
Logging Unit Location	Ft. Morgan, CO					
Recorded By	Aleksei Bekhterev					

Borehole Fluids						
Parameter(unit)	Run 1					
Fluid Type	Water					
Fluid Name	3% KCl					
Max Recorded Temperatures (degF)	228.2					
Salinity (ppm)	0					
Density (lbm/gal)	9.1					
Date Logger on Bottom	20-Jul-2015					
Time Logger on Bottom	09:50:00					
Total Solid (%)						
High Gravity Solids (%)						

Run 1: Toolstring	Run 1: Remarks	
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[illegible]



Depth Summary

	Run 1		
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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

Logging Cable

Type	7-46A-XS		
Serial Number			
Length	21000.00 ft		
Conveyance Type	Wireline		
Rig Type	Rigless/Crane		
Run 1:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well	All Schlumberger depth policies followed	
Rig Up Length At Surface		IDW used as primary depth device	
Rig Up Length At Bottom			
Rig Up Length Correction			
Stretch Correction			
Tool Zero Check At Surface			

Run 1

Software Version

Acquisition System	Version
Maxwell	5.1.33858.3100
Application Patch	Maxwell_NPD-PNX-2014-SP1_5.1.43154

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 1	Main[3]:Up	Up	2476.95 ft	8895.37 ft	20-Jul-2015 10:14:08 AM	20-Jul-2015 2:02:05 PM	ON	2.74 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Caerus Piceance LLC Well:Puckett 41D-2

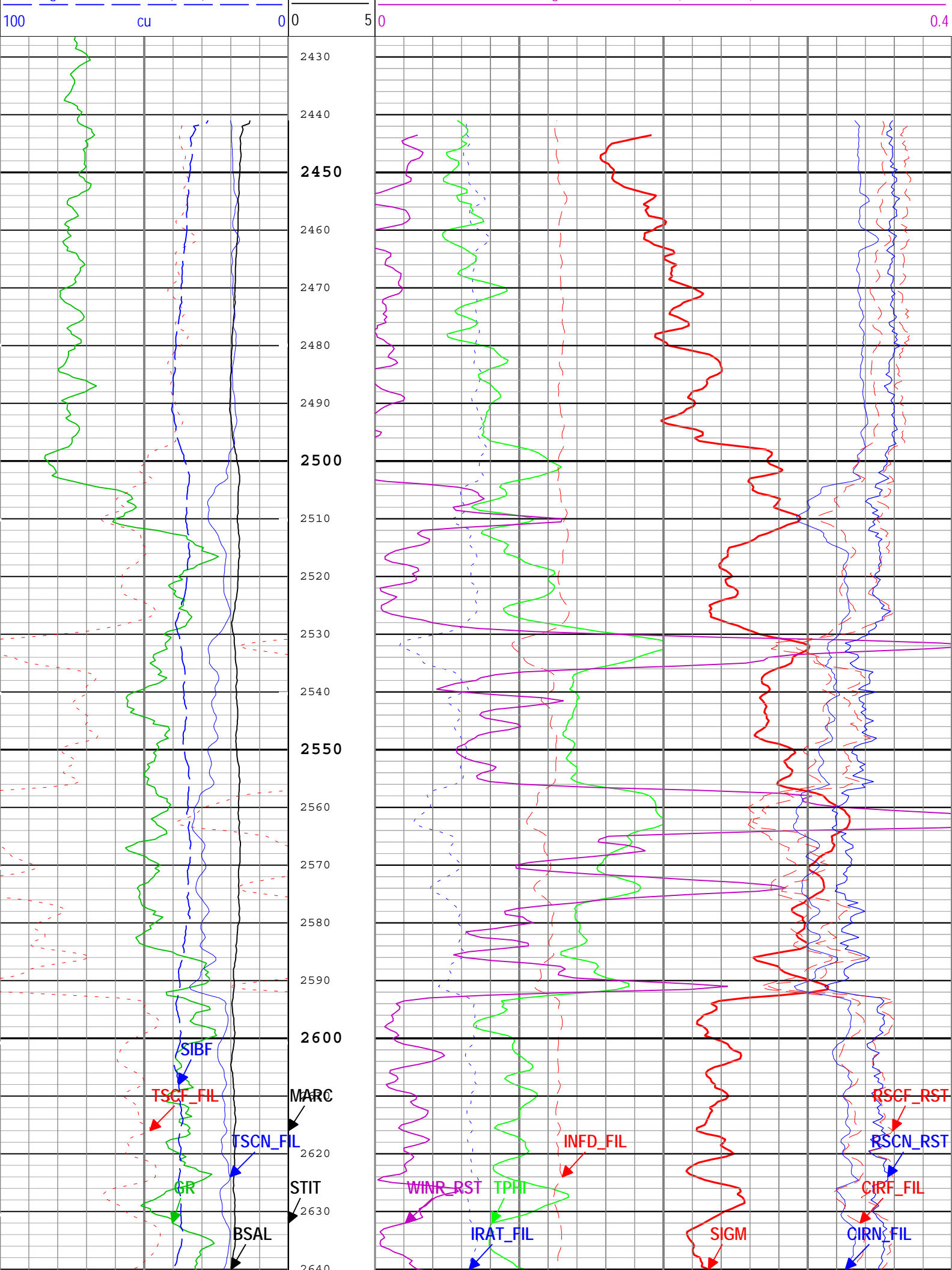
Run 1: Main[3]:Up:S017

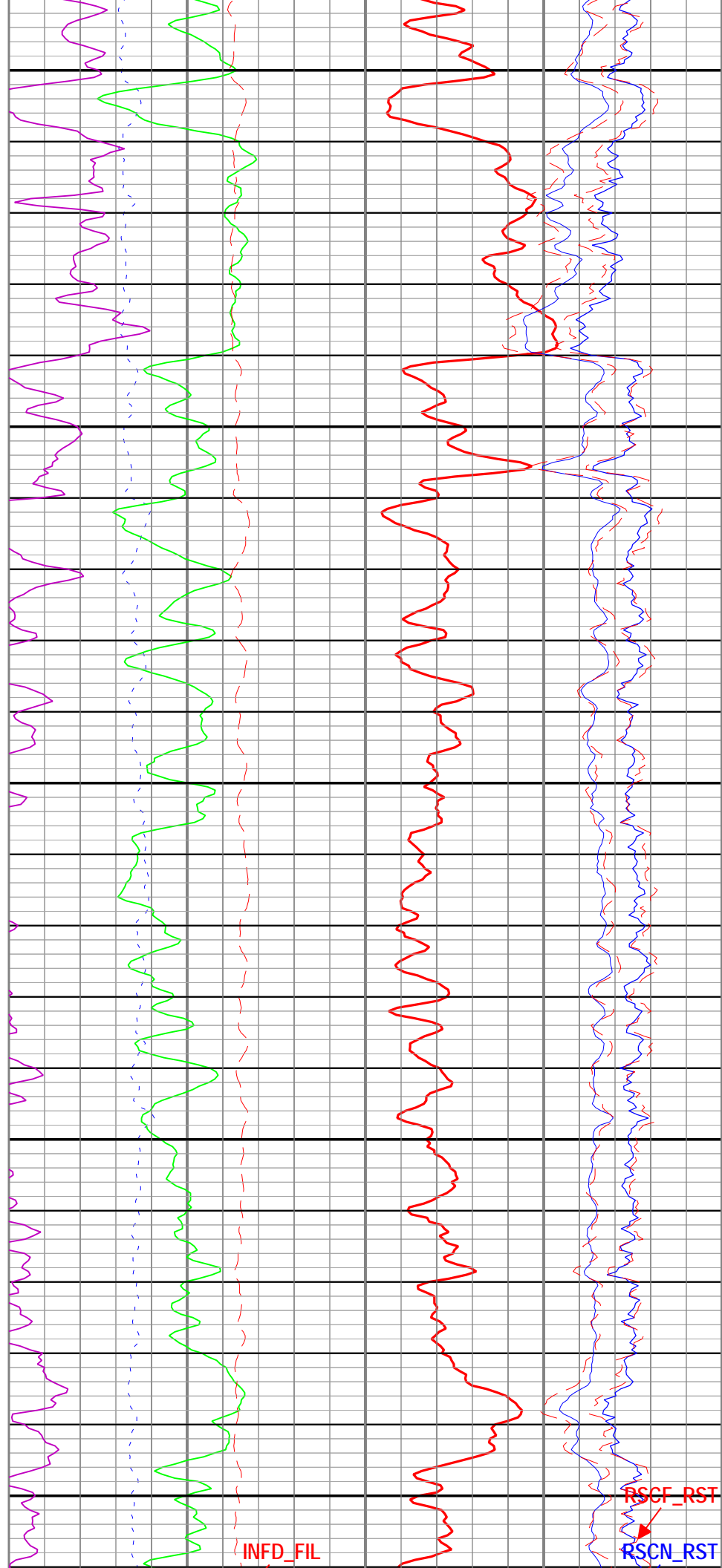
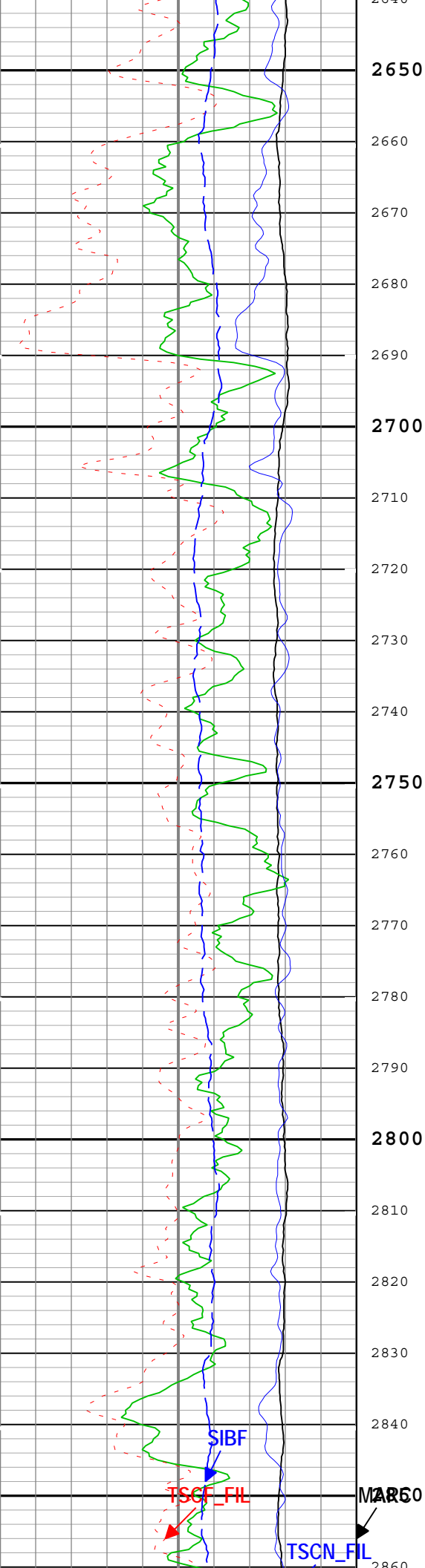
Description: RST SIGMA Answer Format: Log (RST SIGMA Answer) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 20-Jul-2015 15:30:04

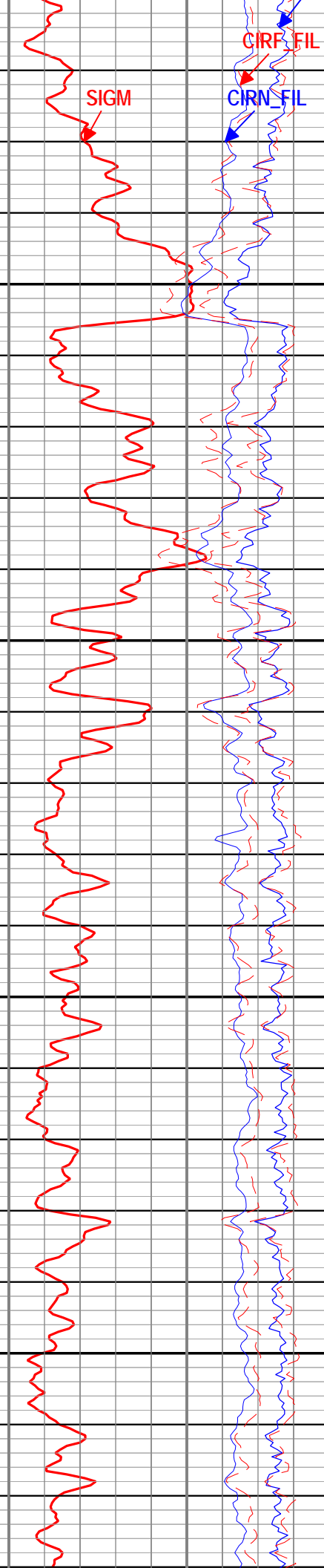
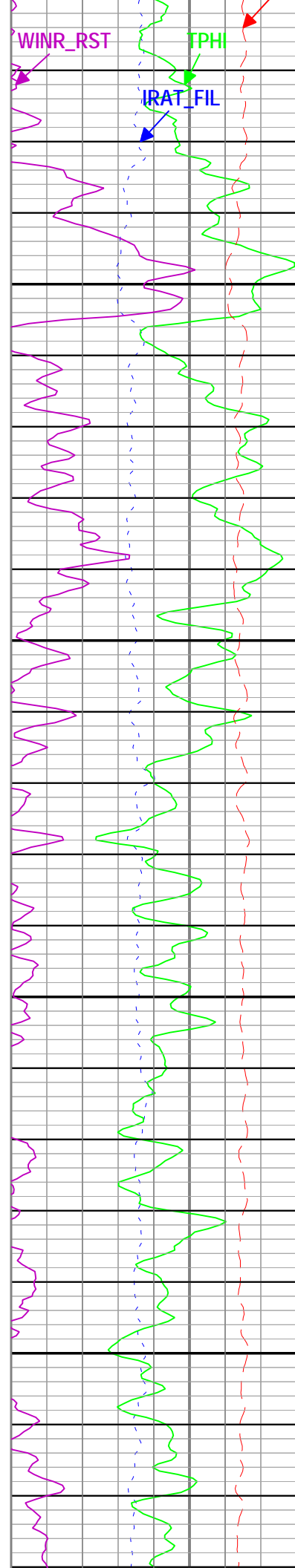
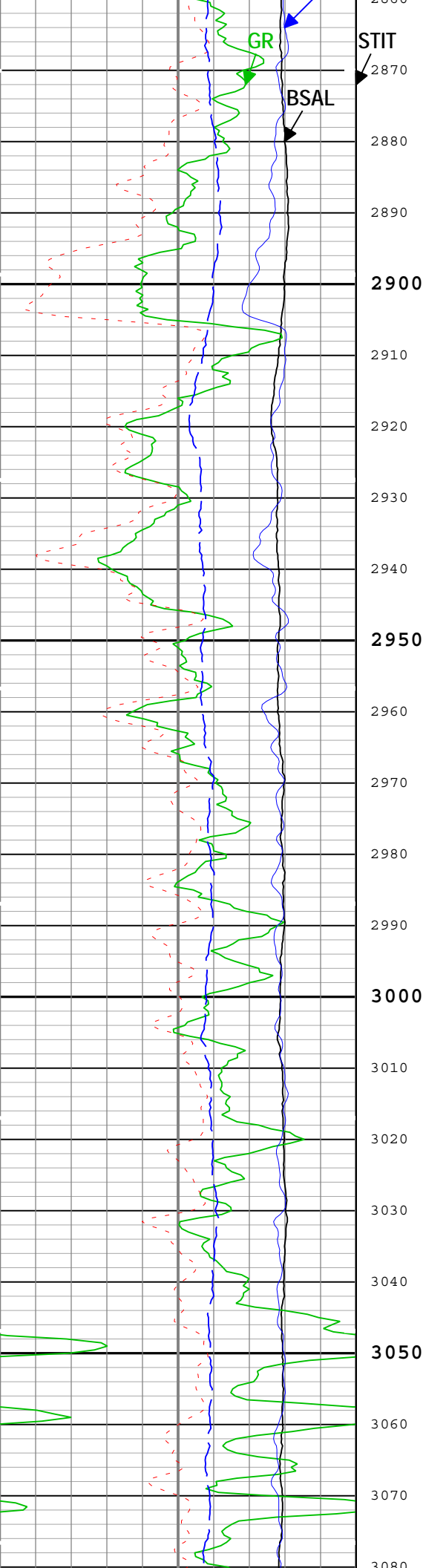
TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)			
TIME_1900 - Time Marked every 60.00 (s)			
IHV - Integrated Hole Volume every 10.00 (ft3)			
IHV - Integrated Hole Volume every 100.00 (ft3)			
ICV - Integrated Cement Volume every 10.00 (ft3)			
ICV - Integrated Cement Volume every 100.00 (ft3)			
		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	
		10000	0
		Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C	
		60	0
		Weighted Inelastic Ratio (WINR_RST) RST-C	

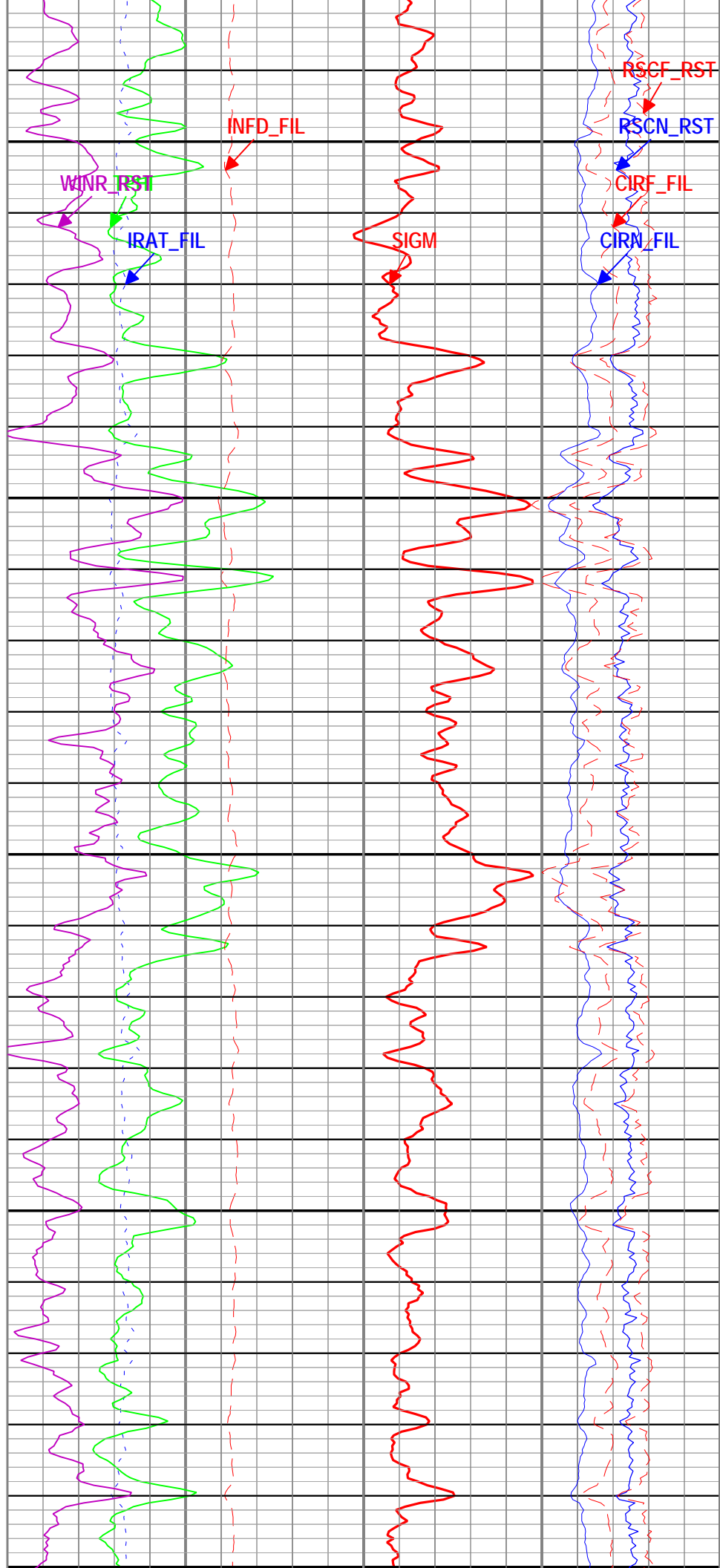
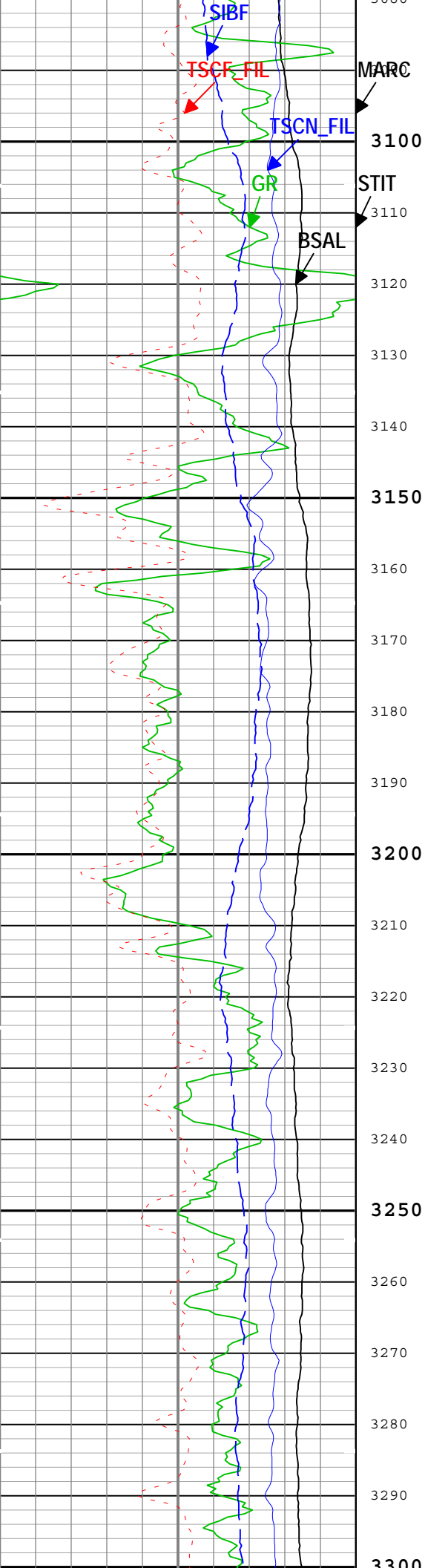
Stuck Tool Indicator, Total (STIT)		0	ft	50
Borehole Salinity (BSAL) RST-C		450	ppk	-50
Gamma Ray (GR) PSTP-A		0	gAPI	150
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C		30000	1/s	0
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C		12000	1/s	0
Sigma Borehole Fluid (SIBF) RST-C				

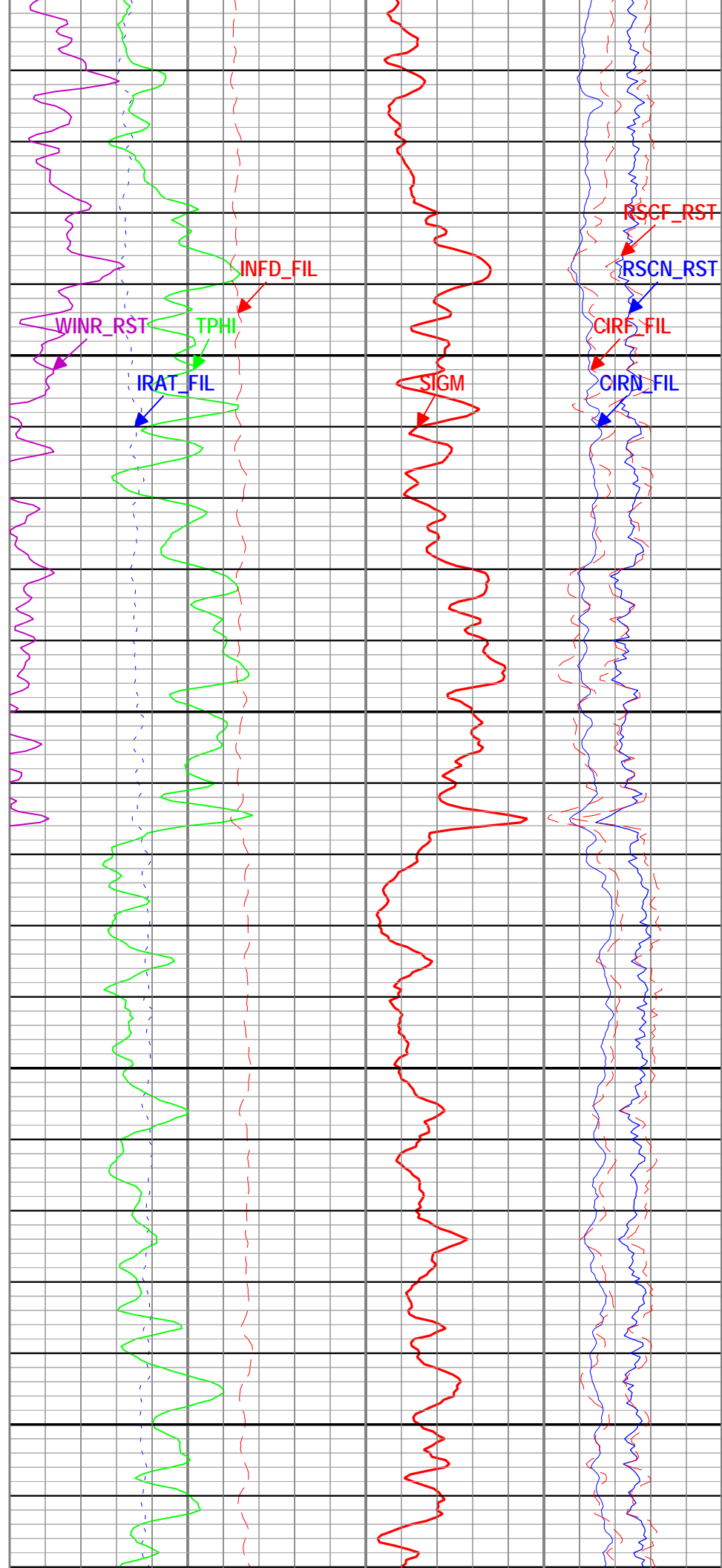
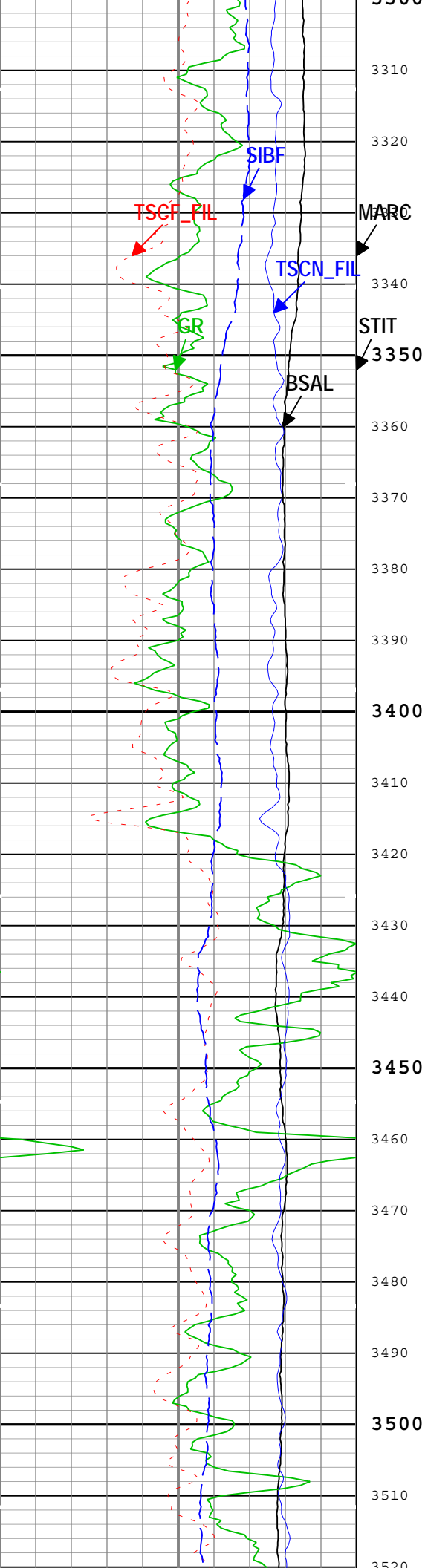
Cable Drag From STIA to STIT		0.75	0
Thermal Decay Porosity (TPHI) RST-C		0.6	0
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C		10000	0
Minitron Arc Count (MARC) RST-C		60	0

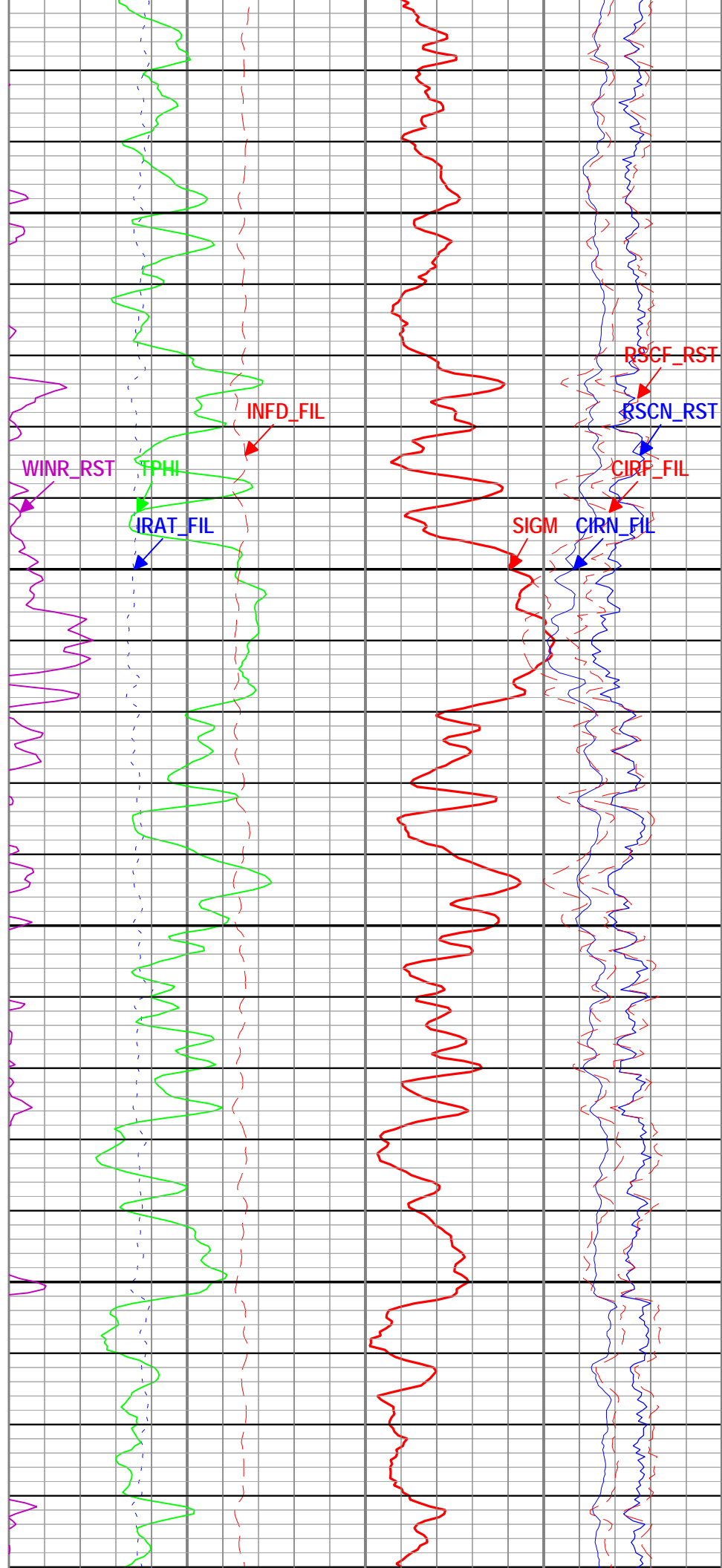
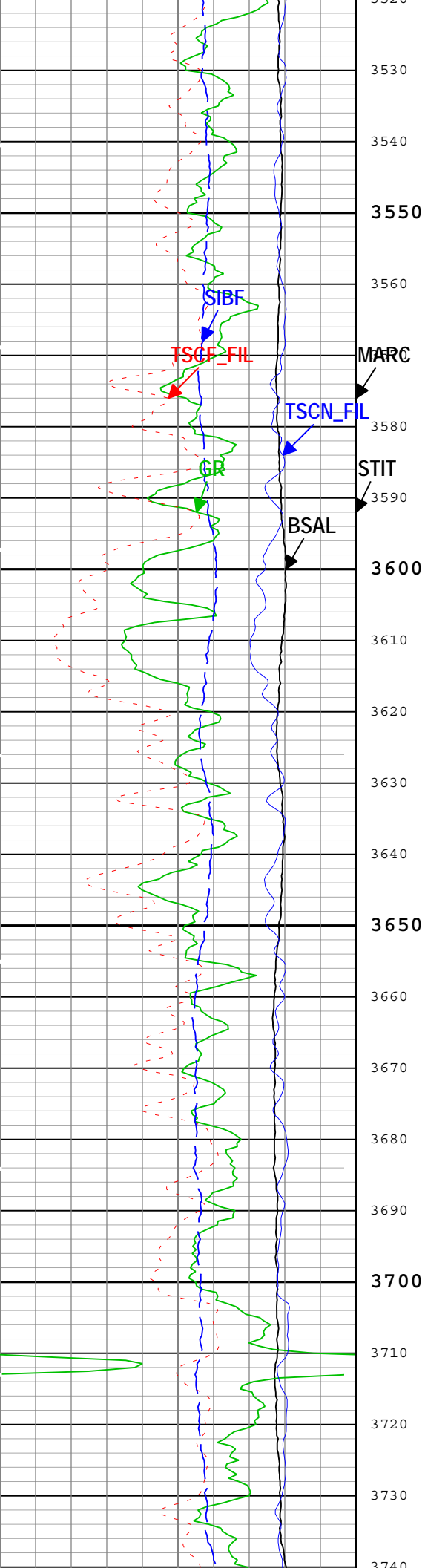


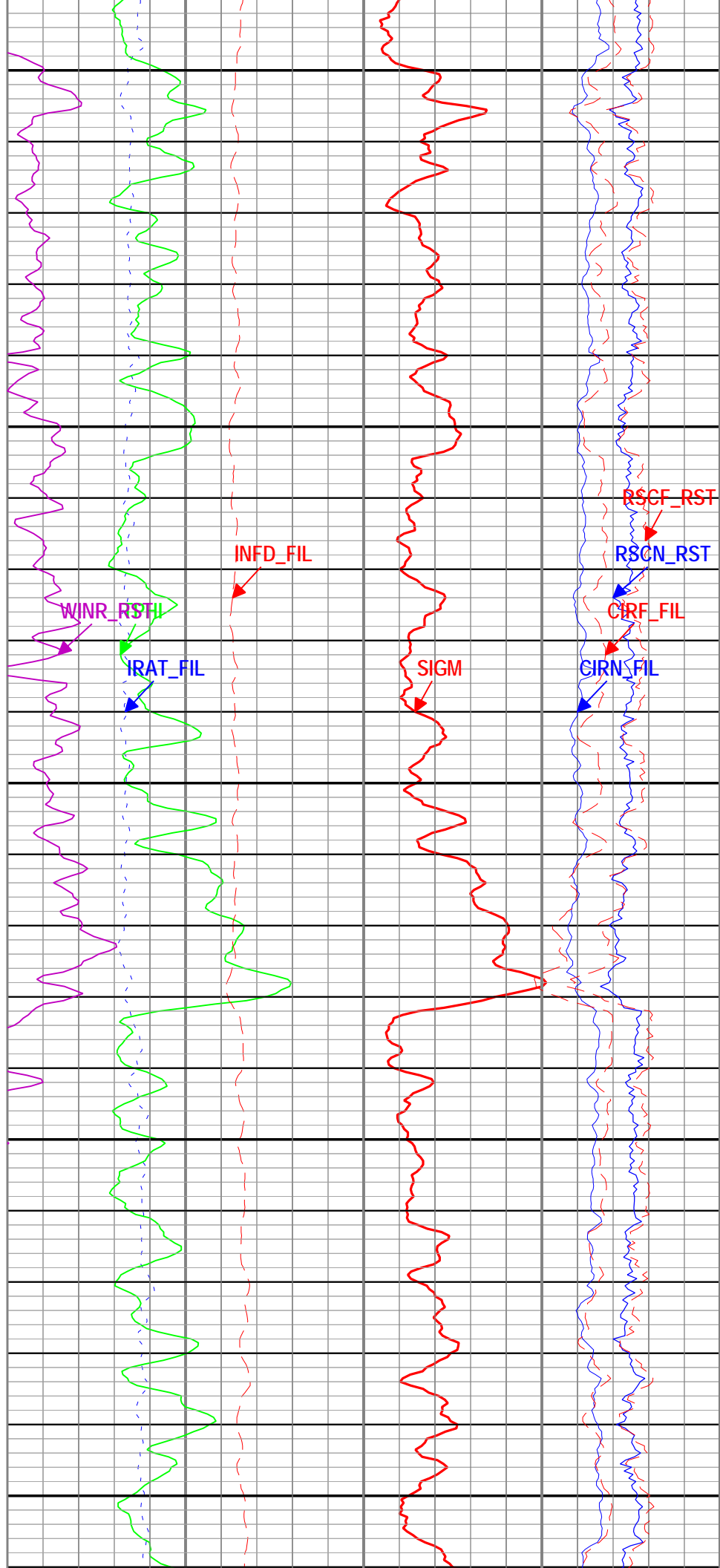
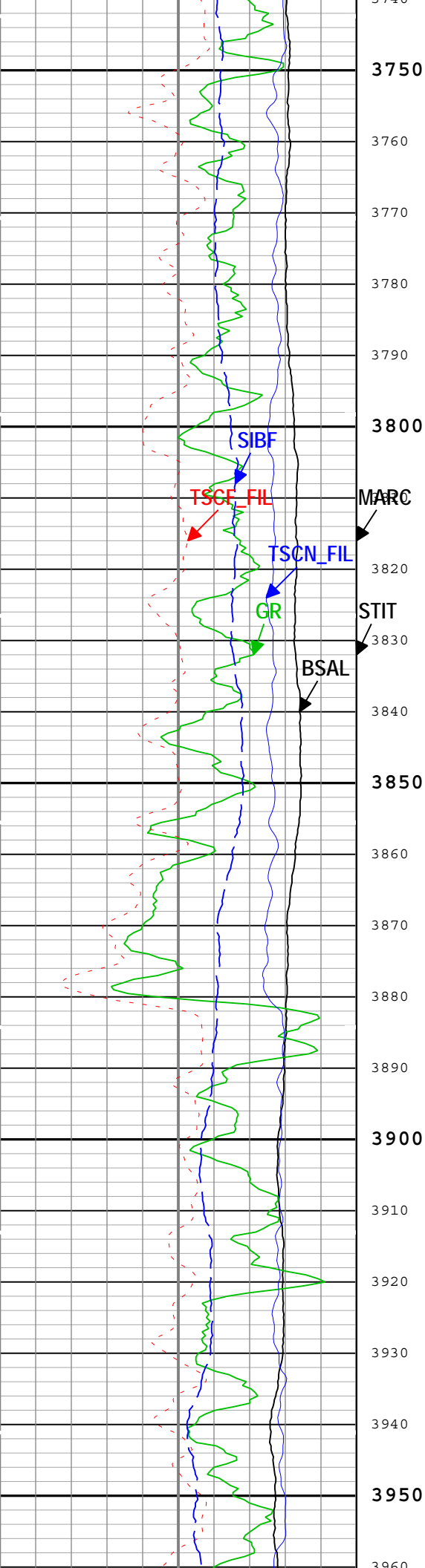


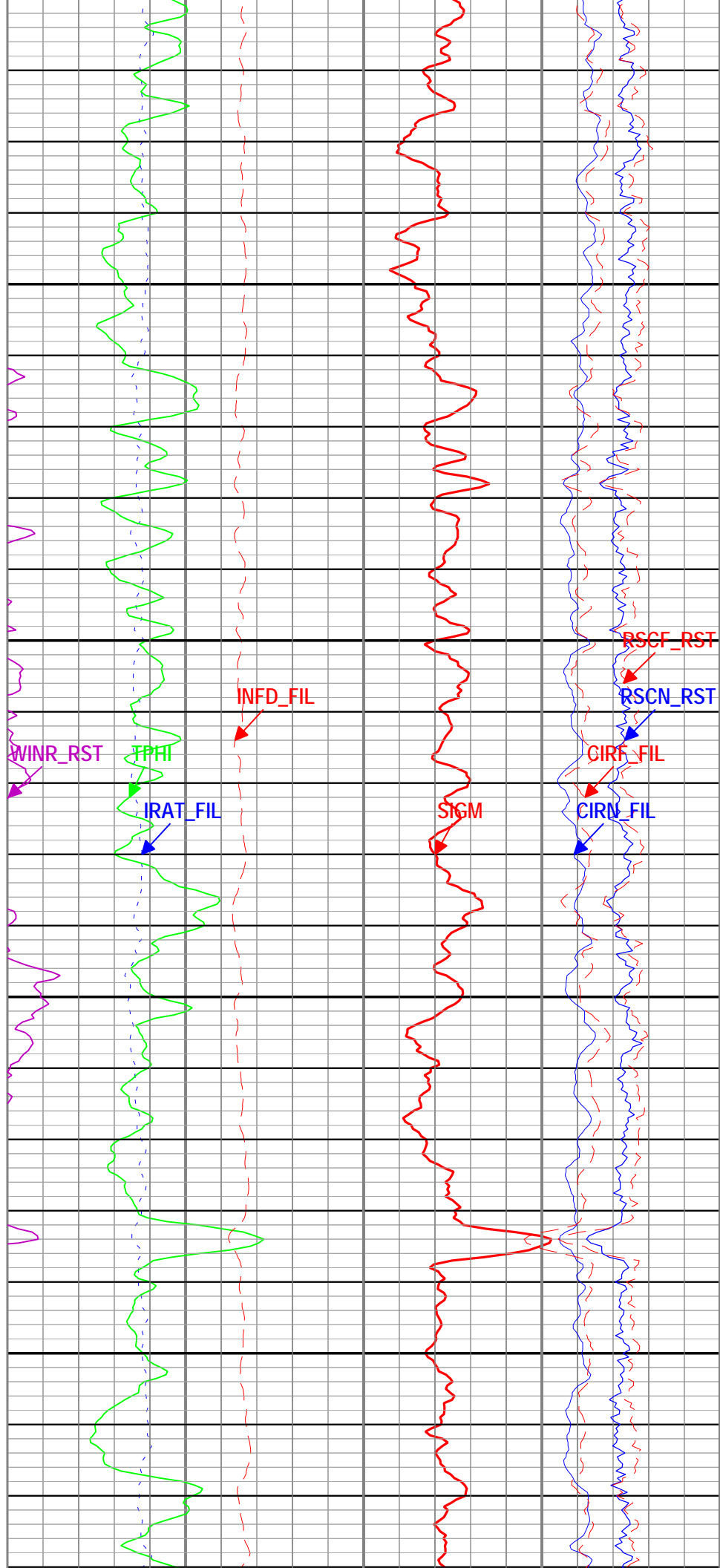
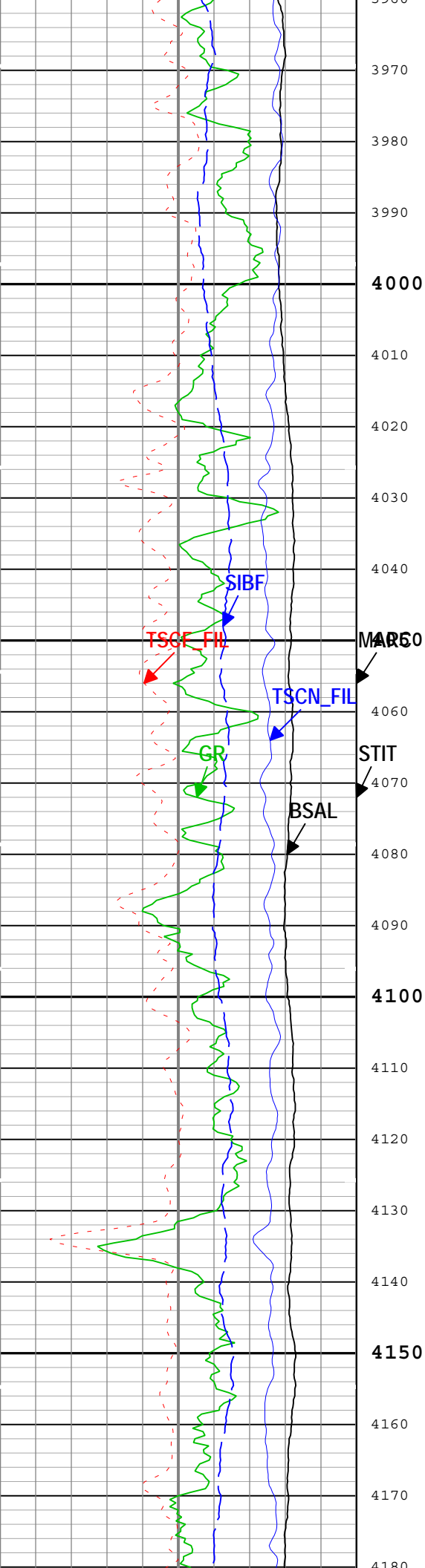


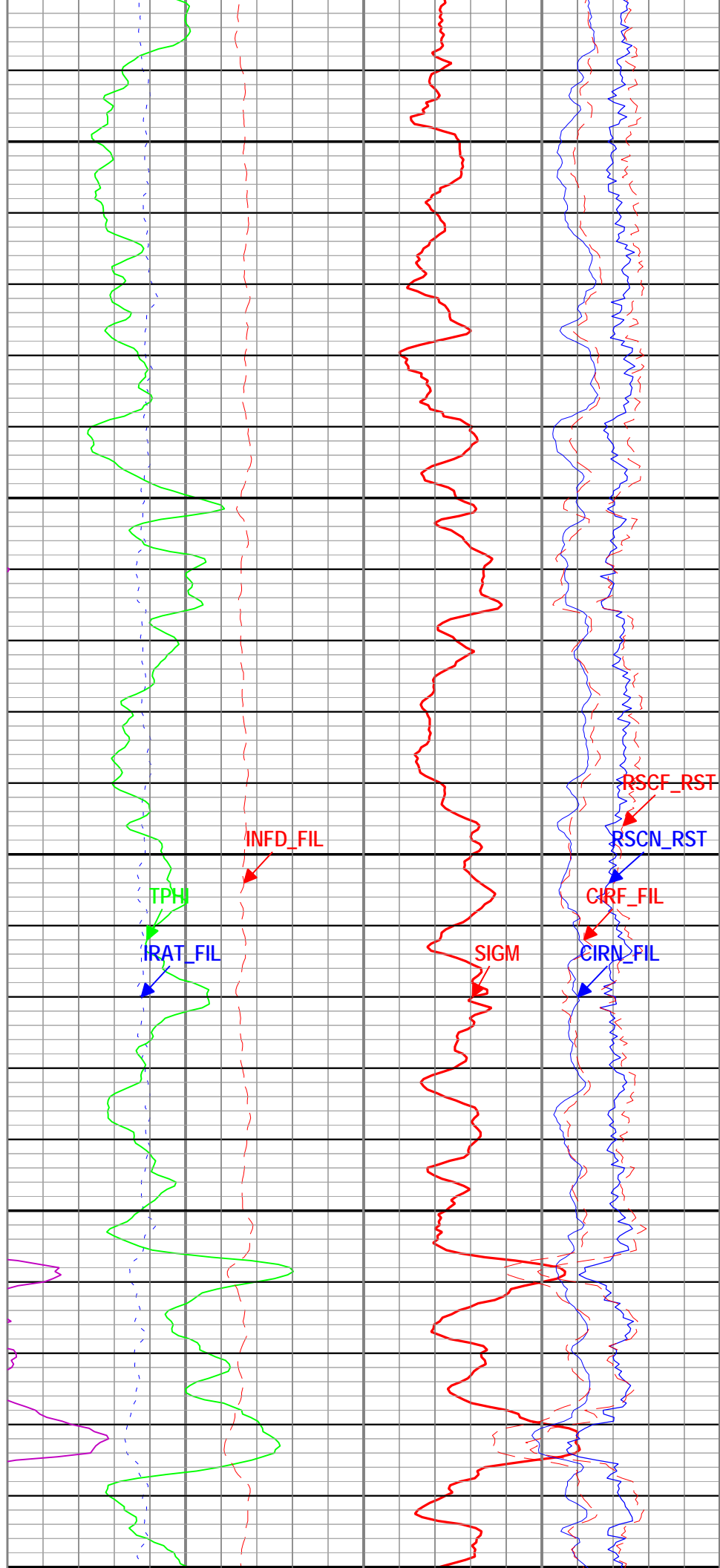
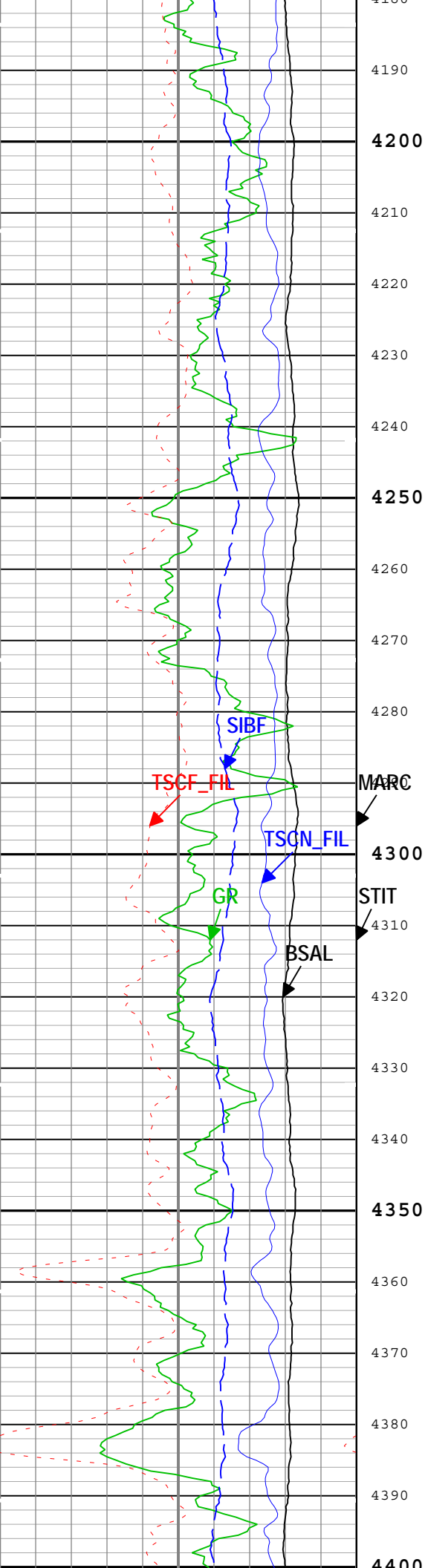


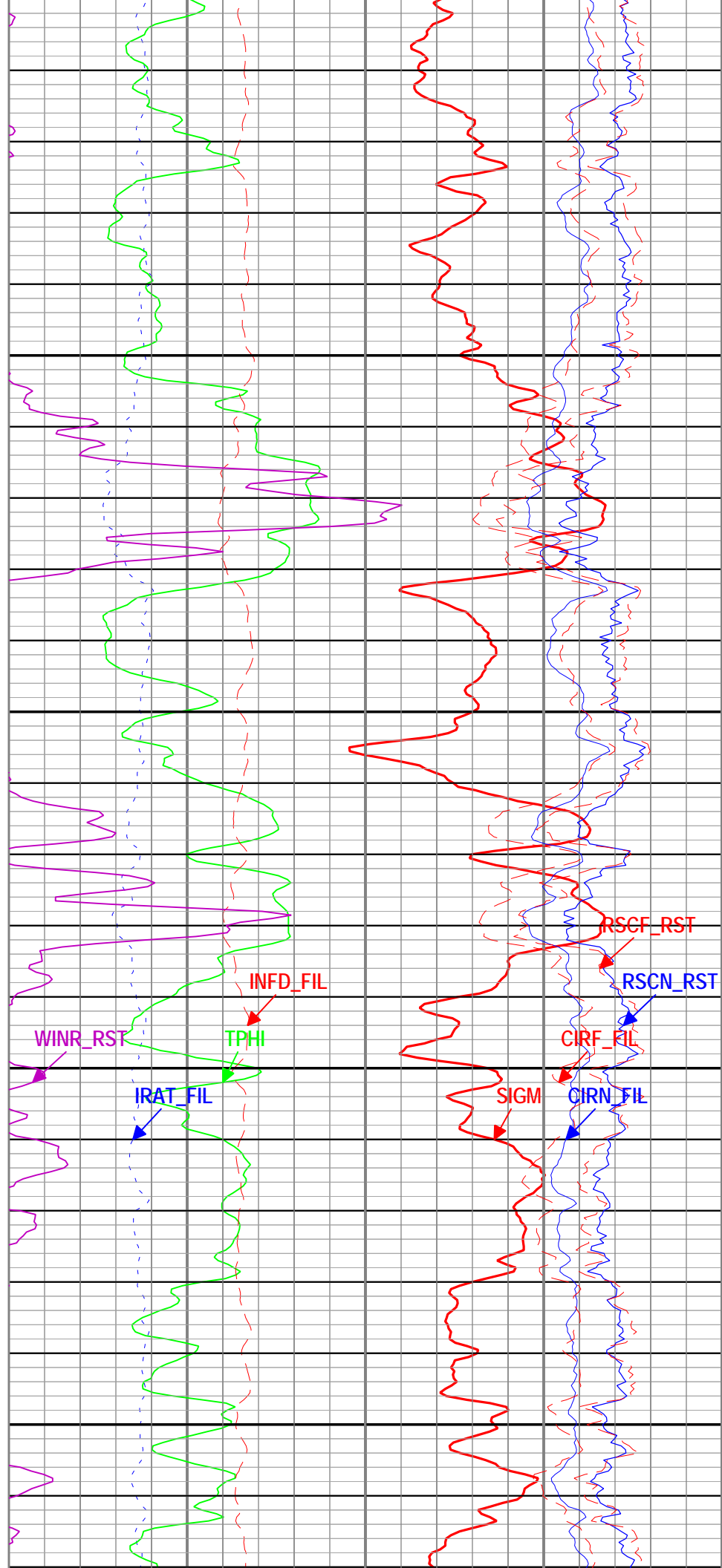
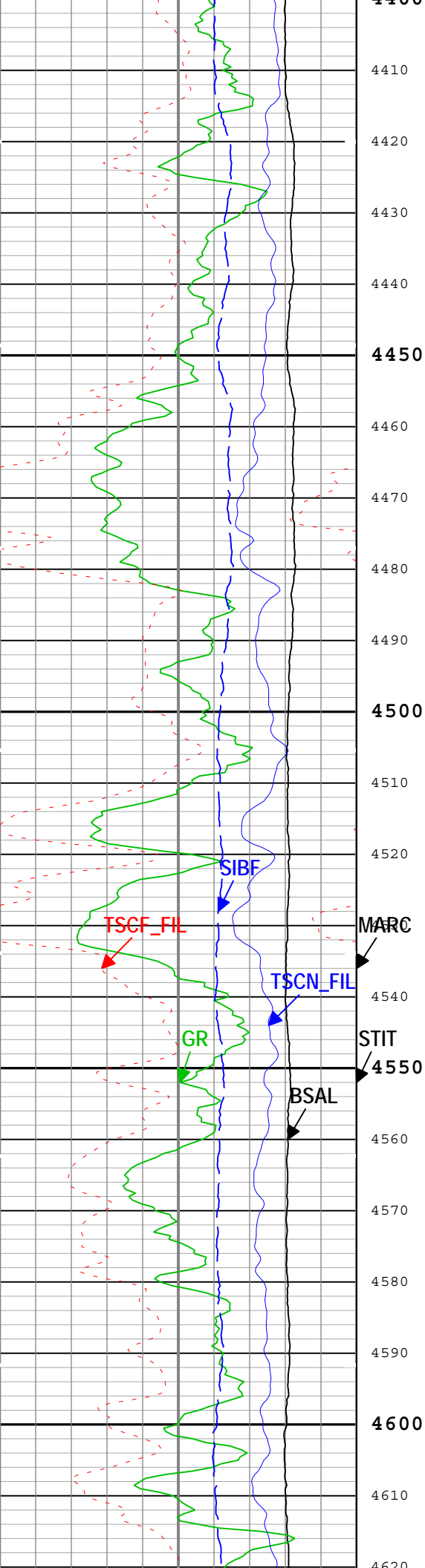


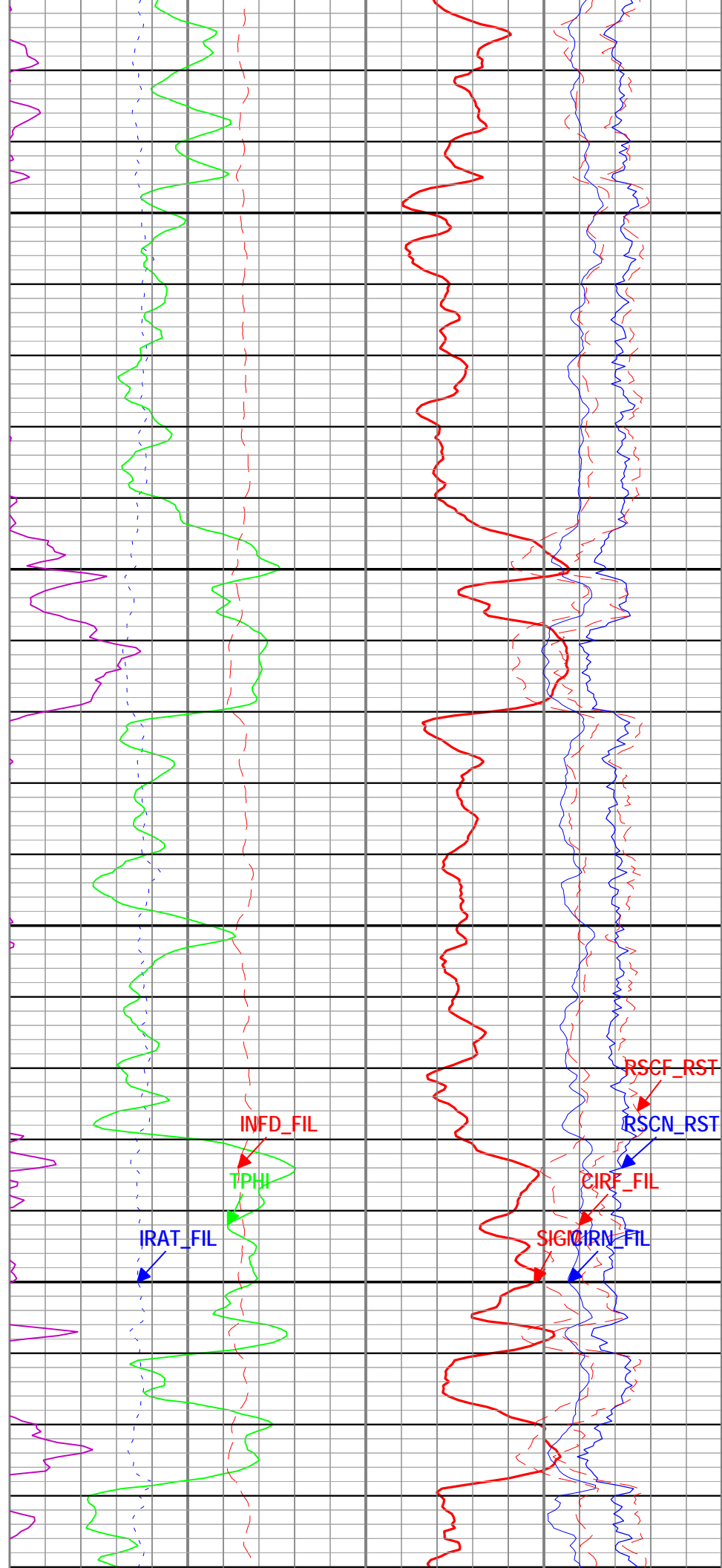
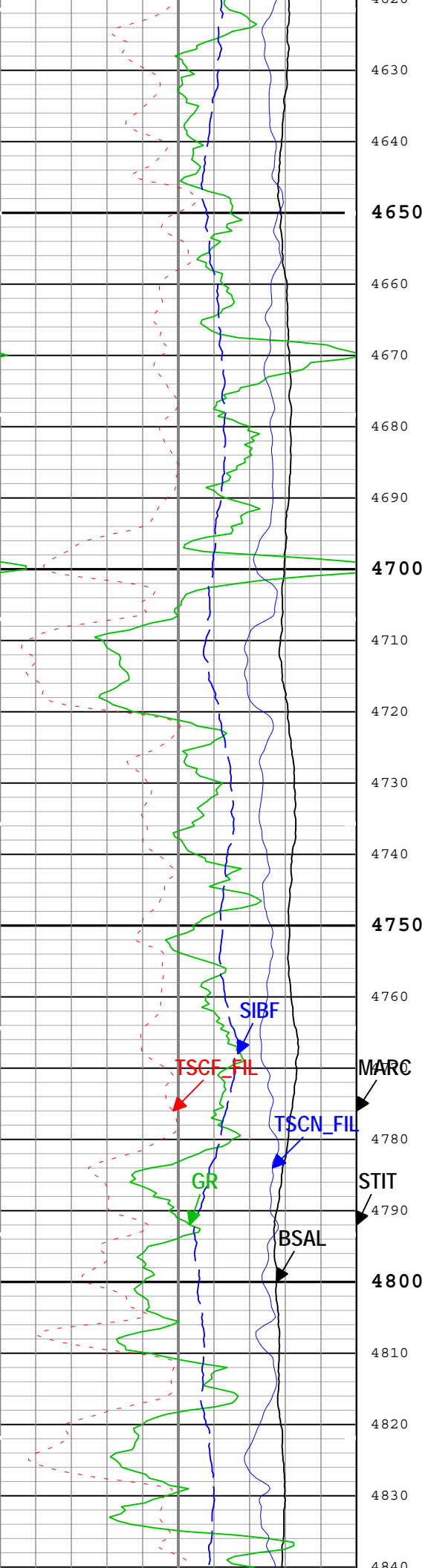


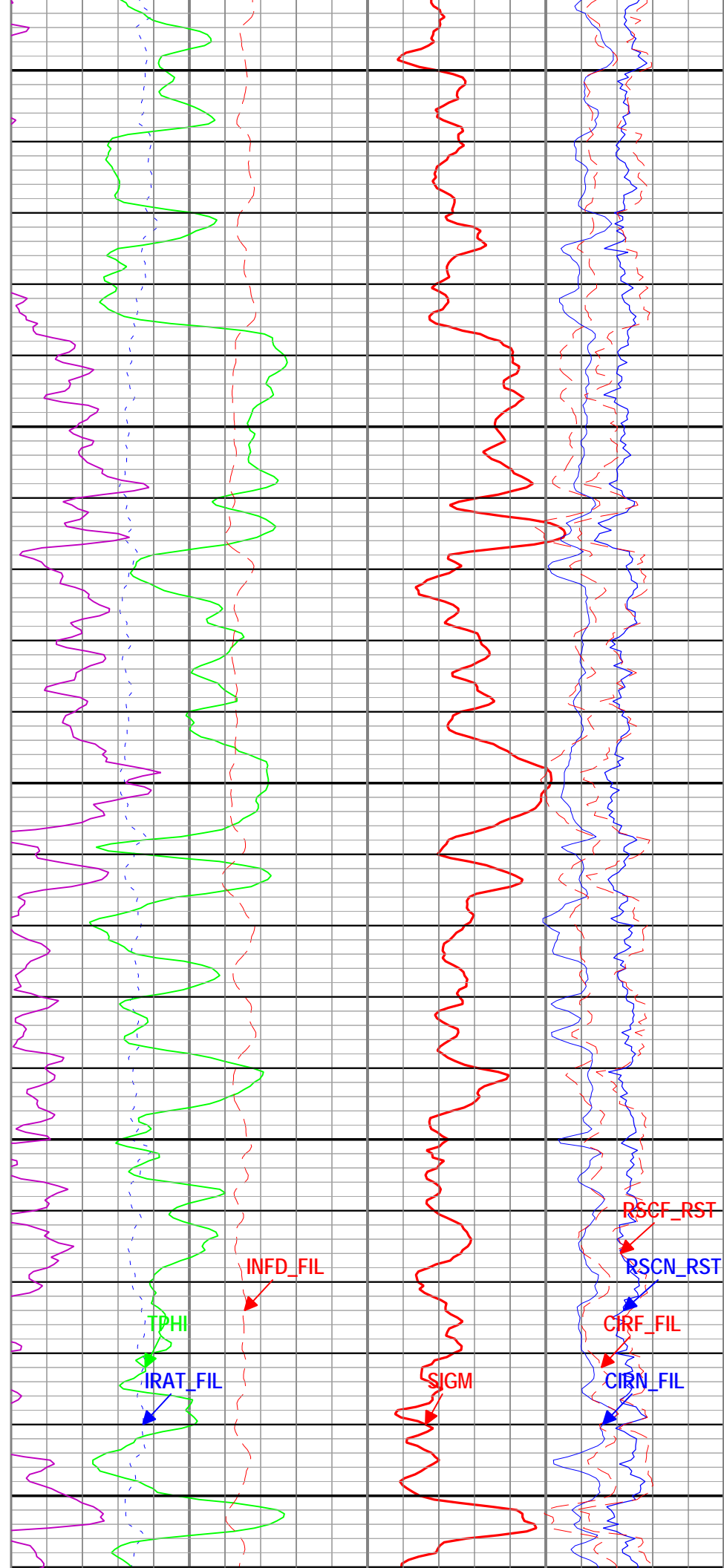
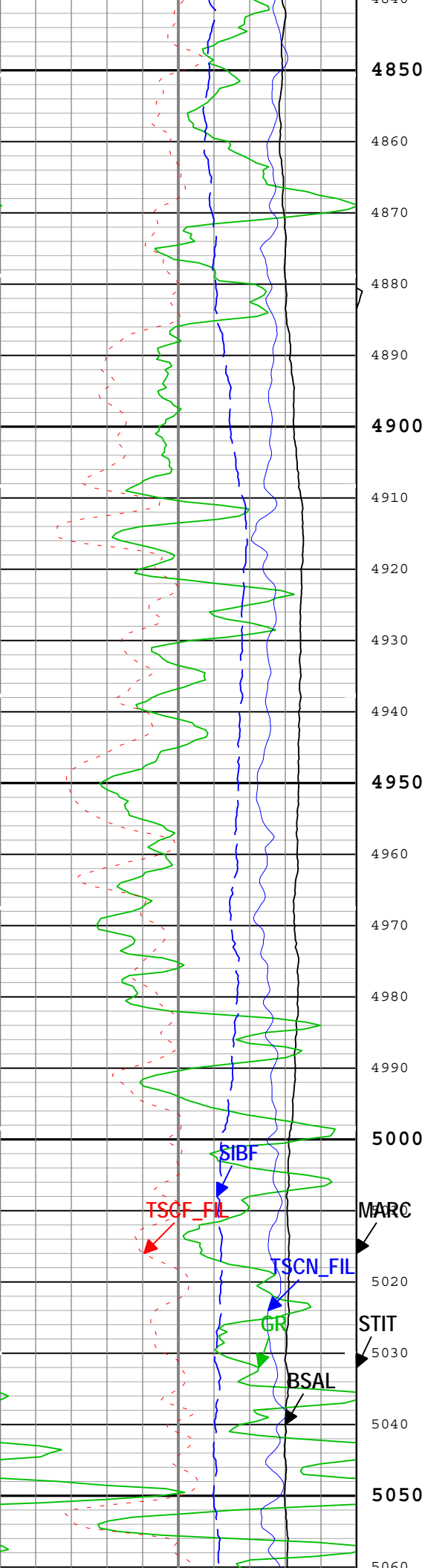


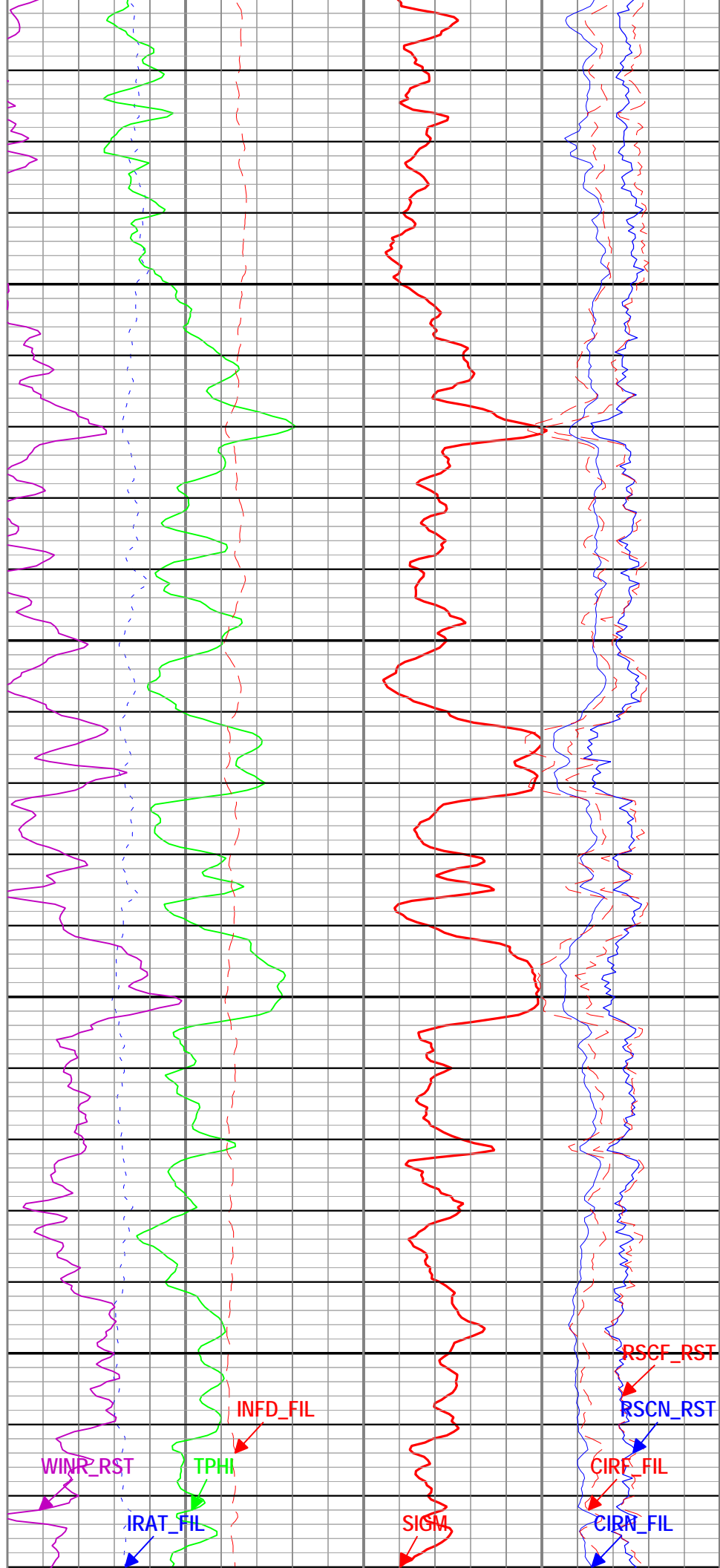
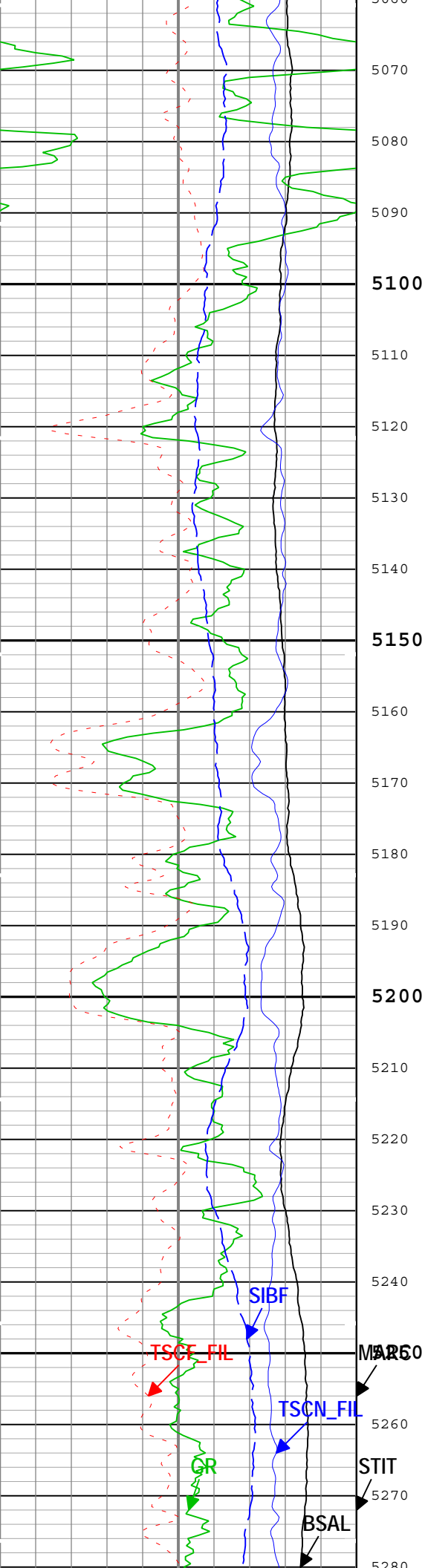


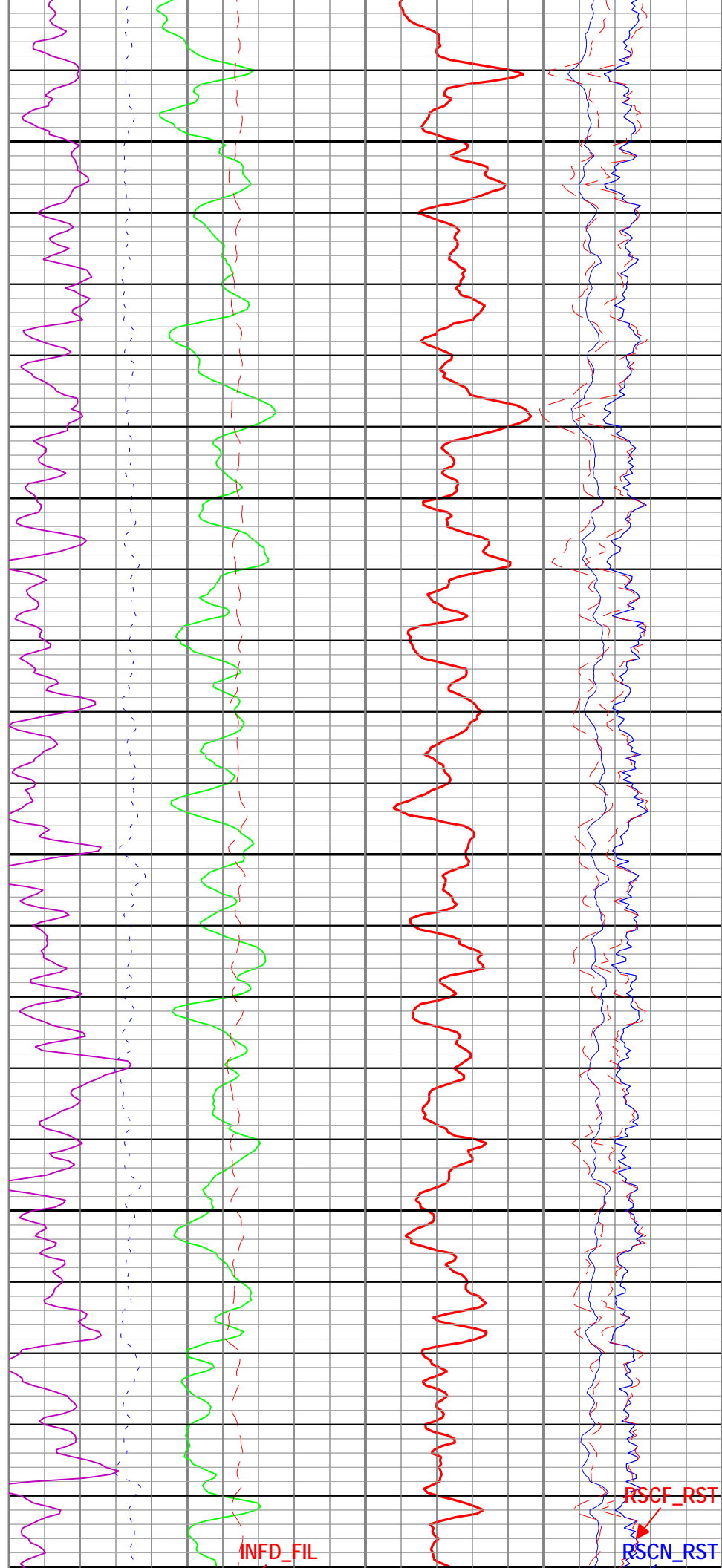
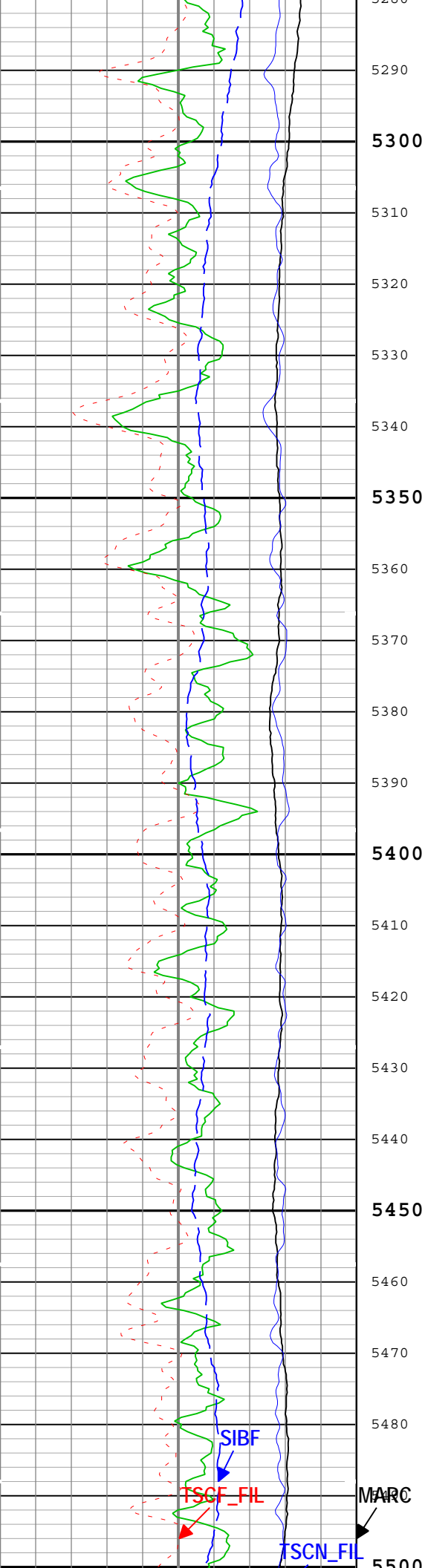


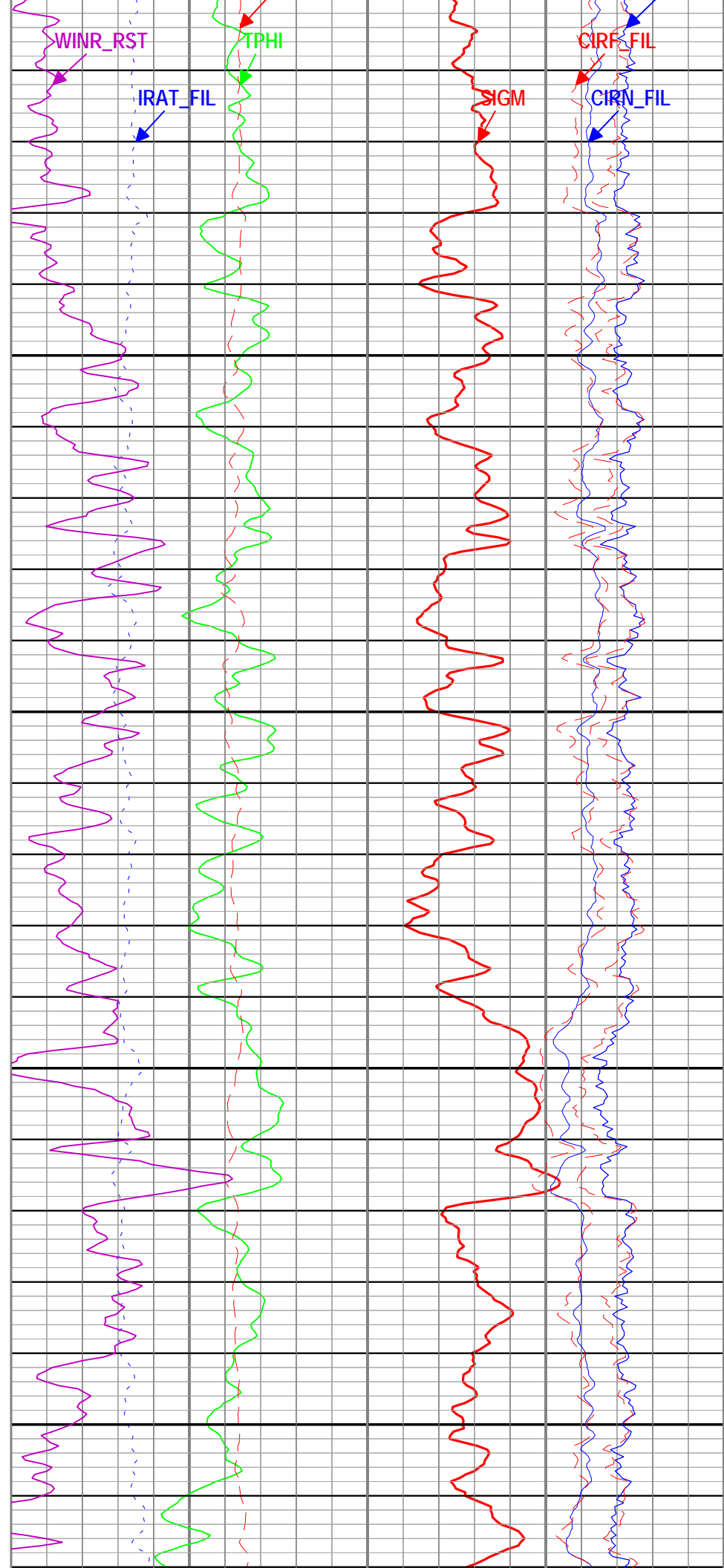
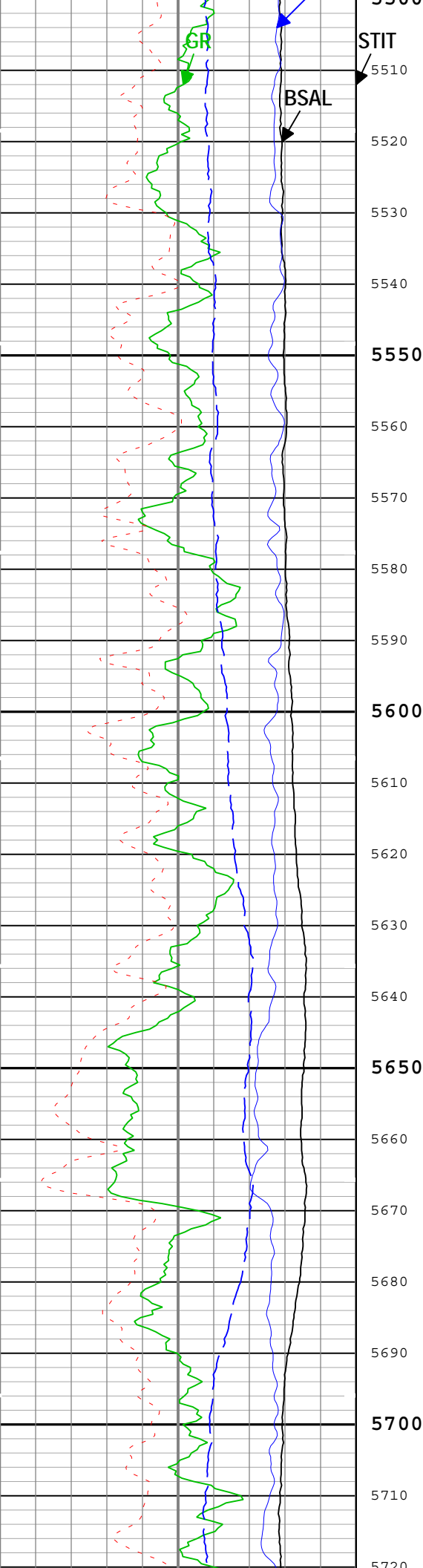


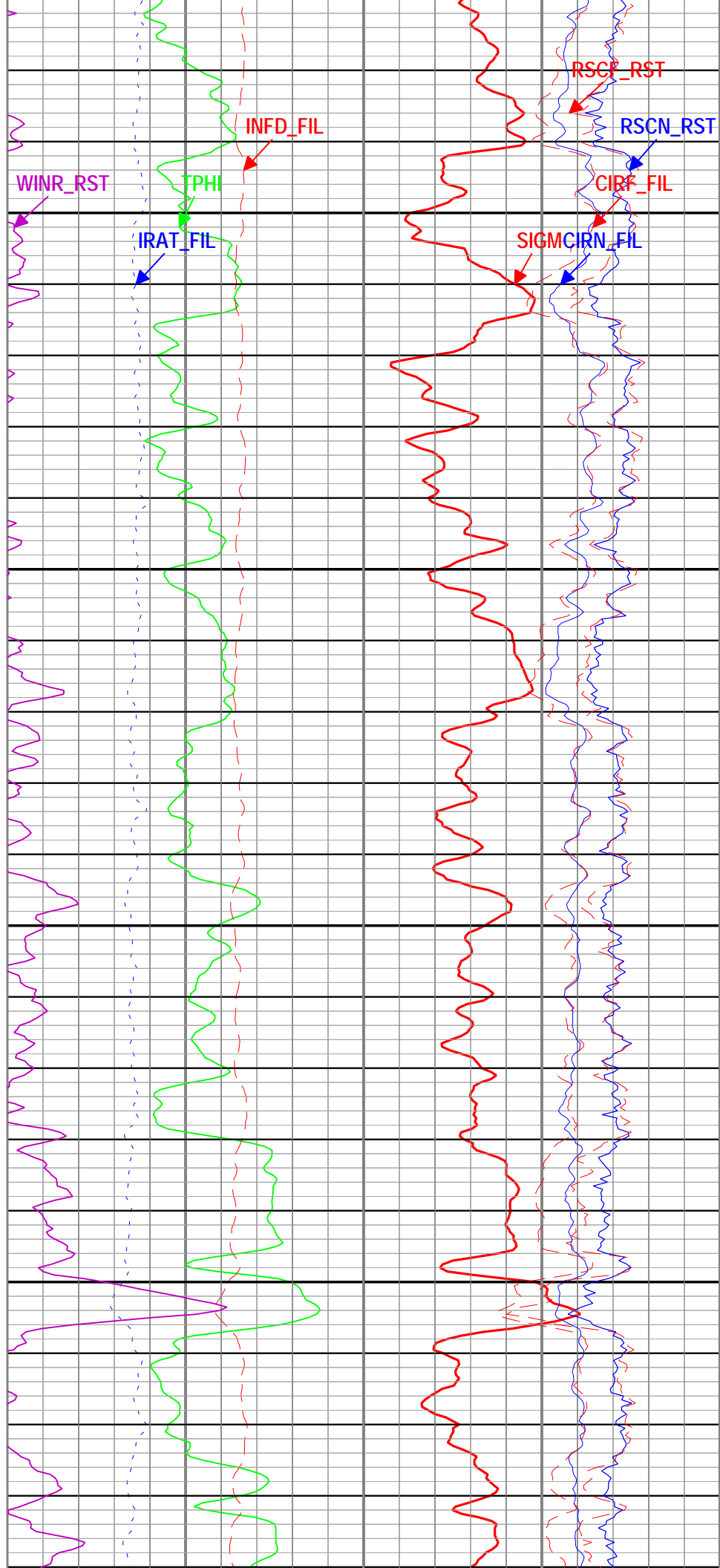
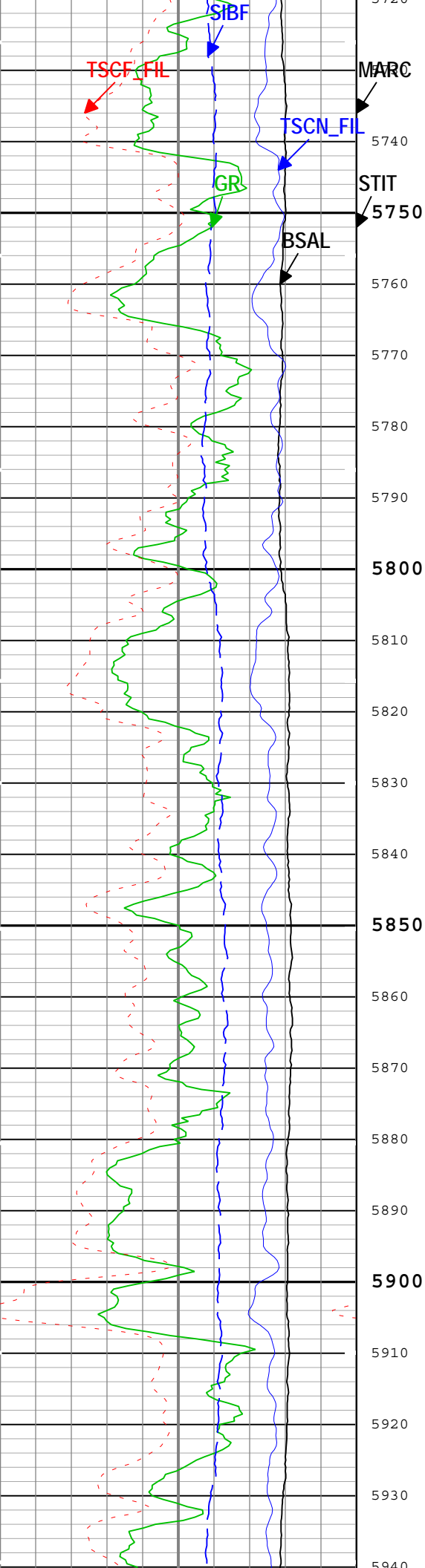


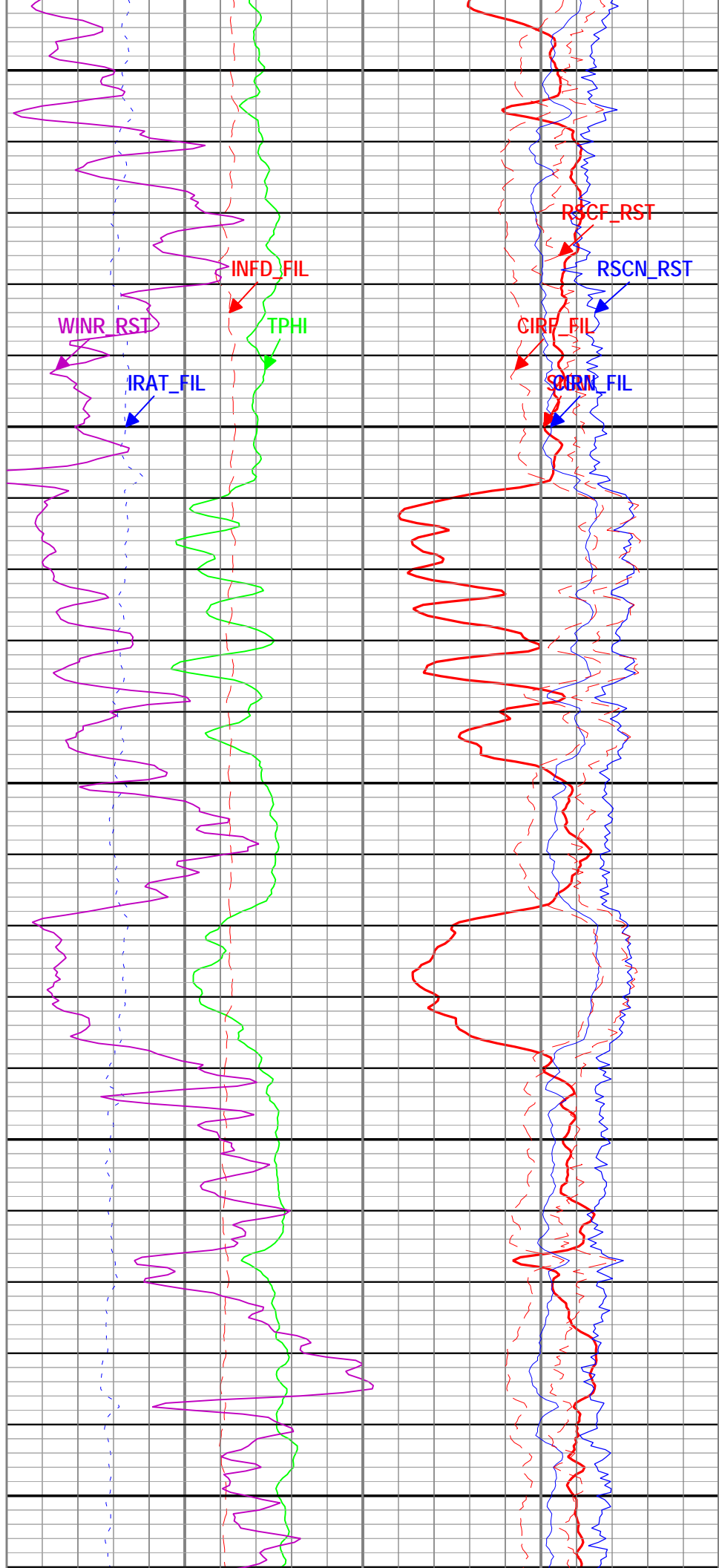
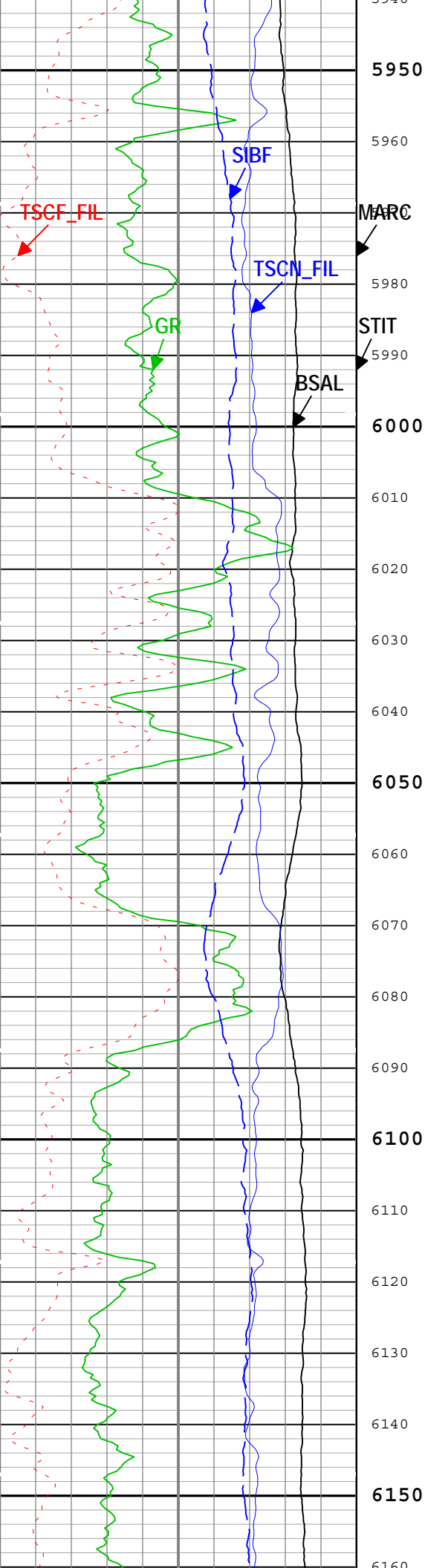


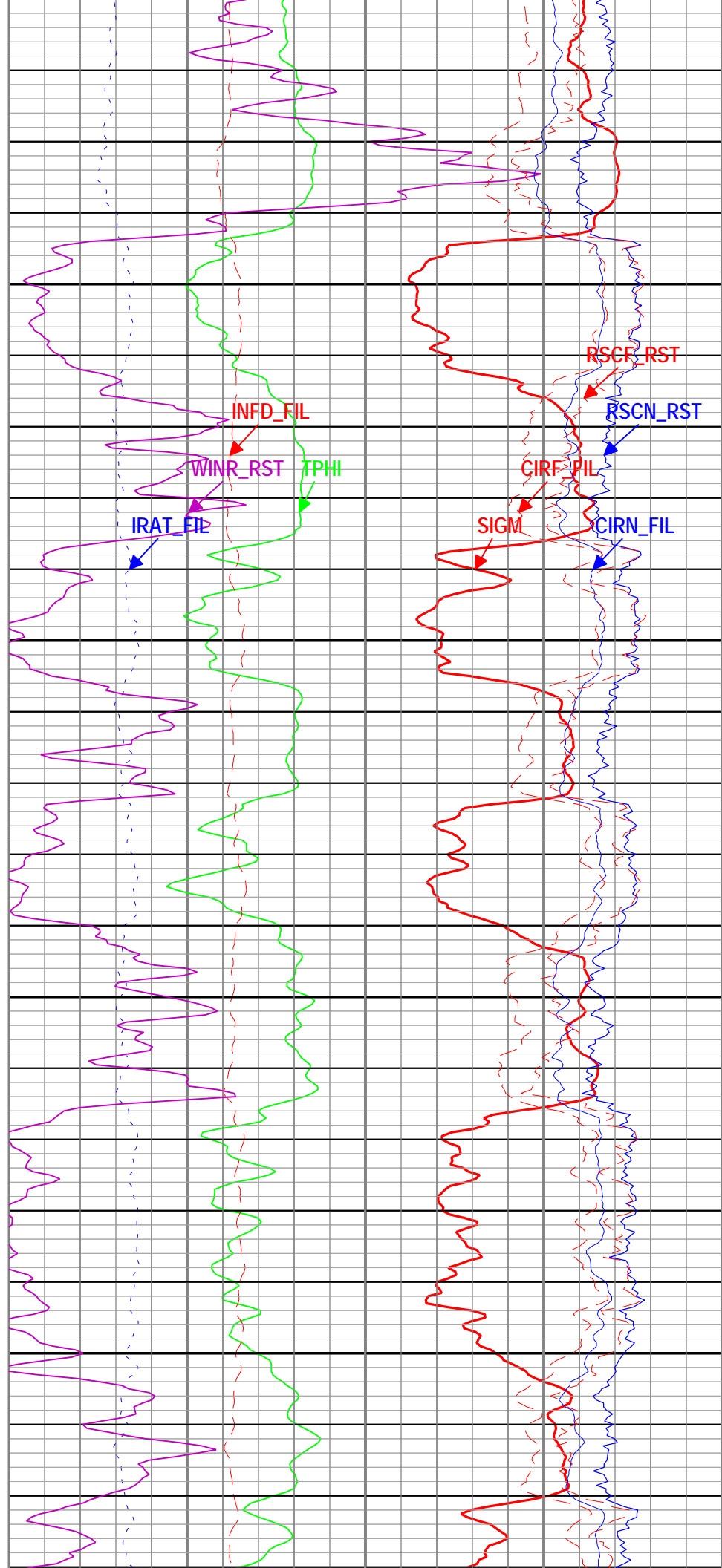
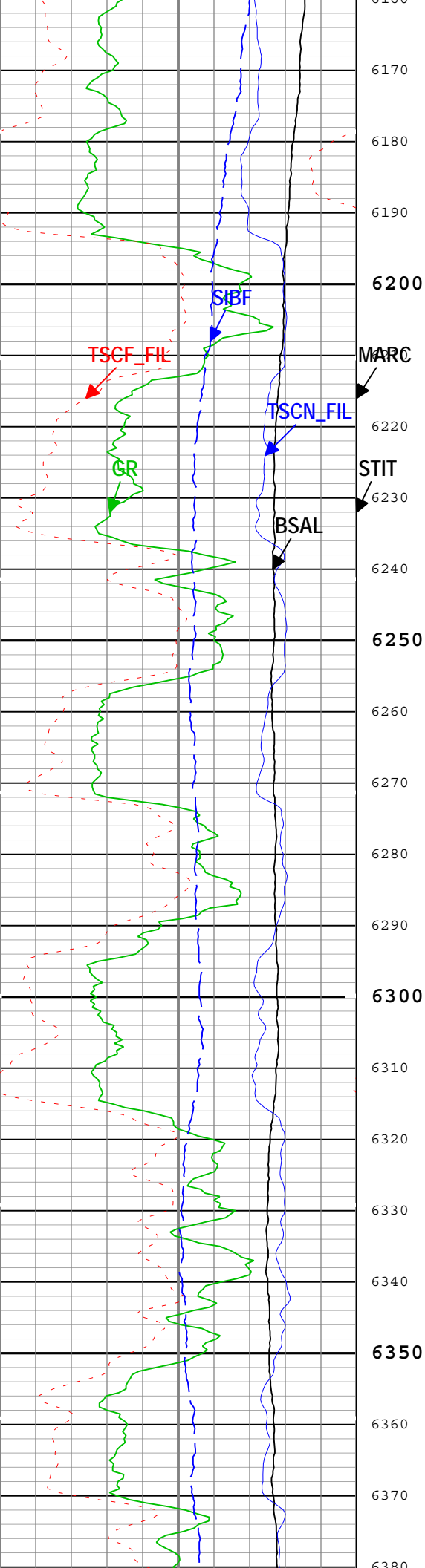


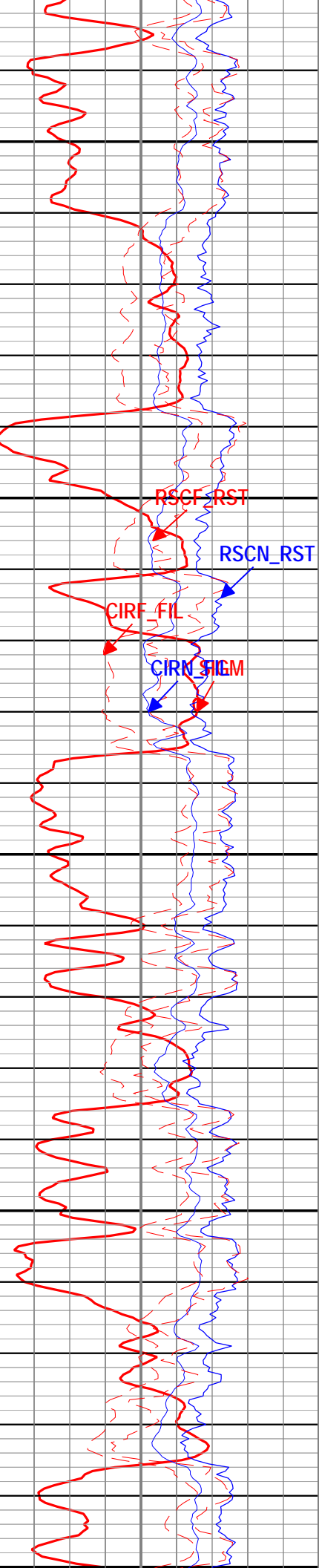
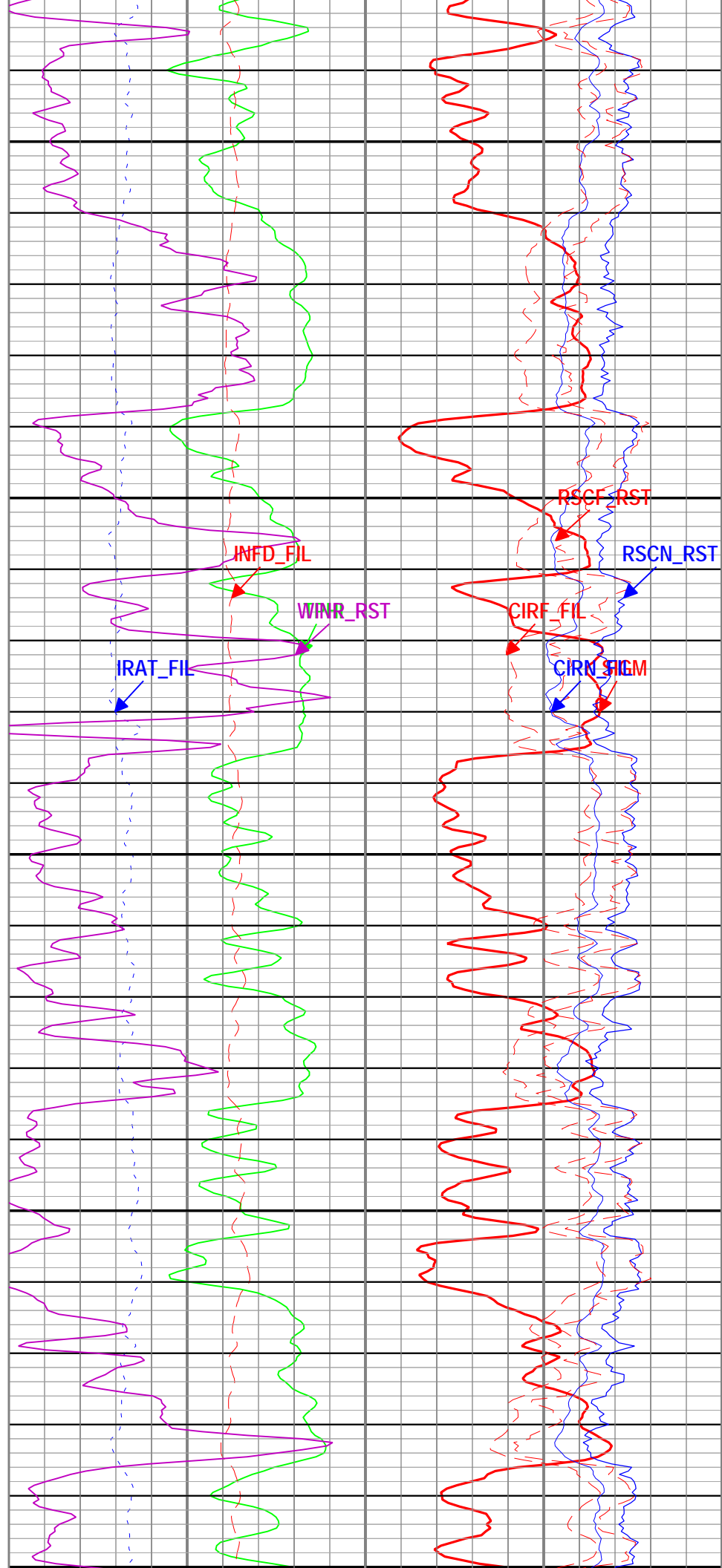
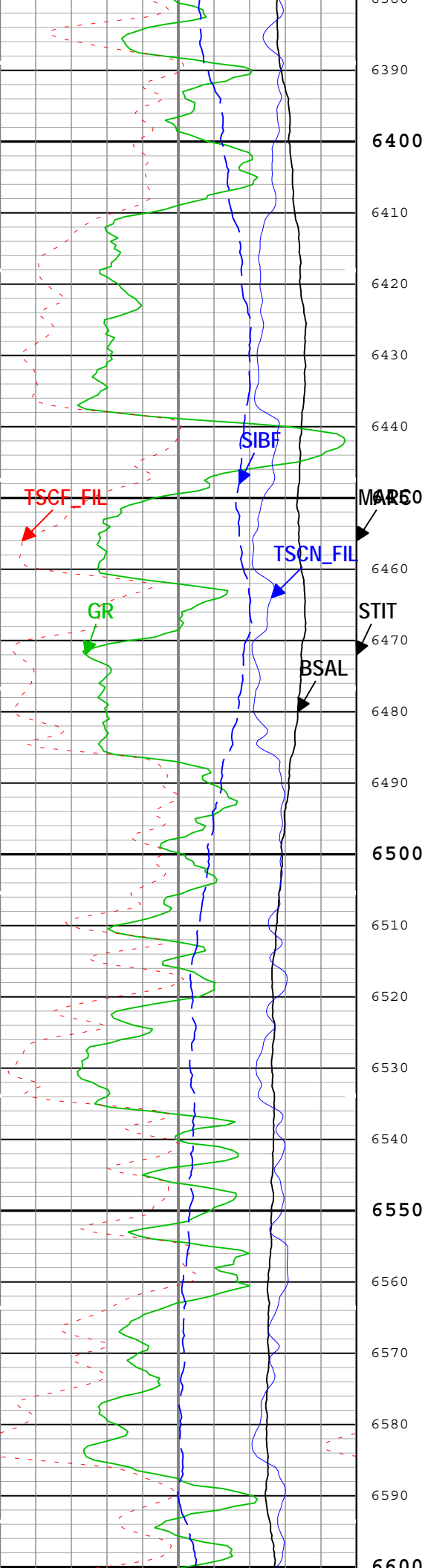


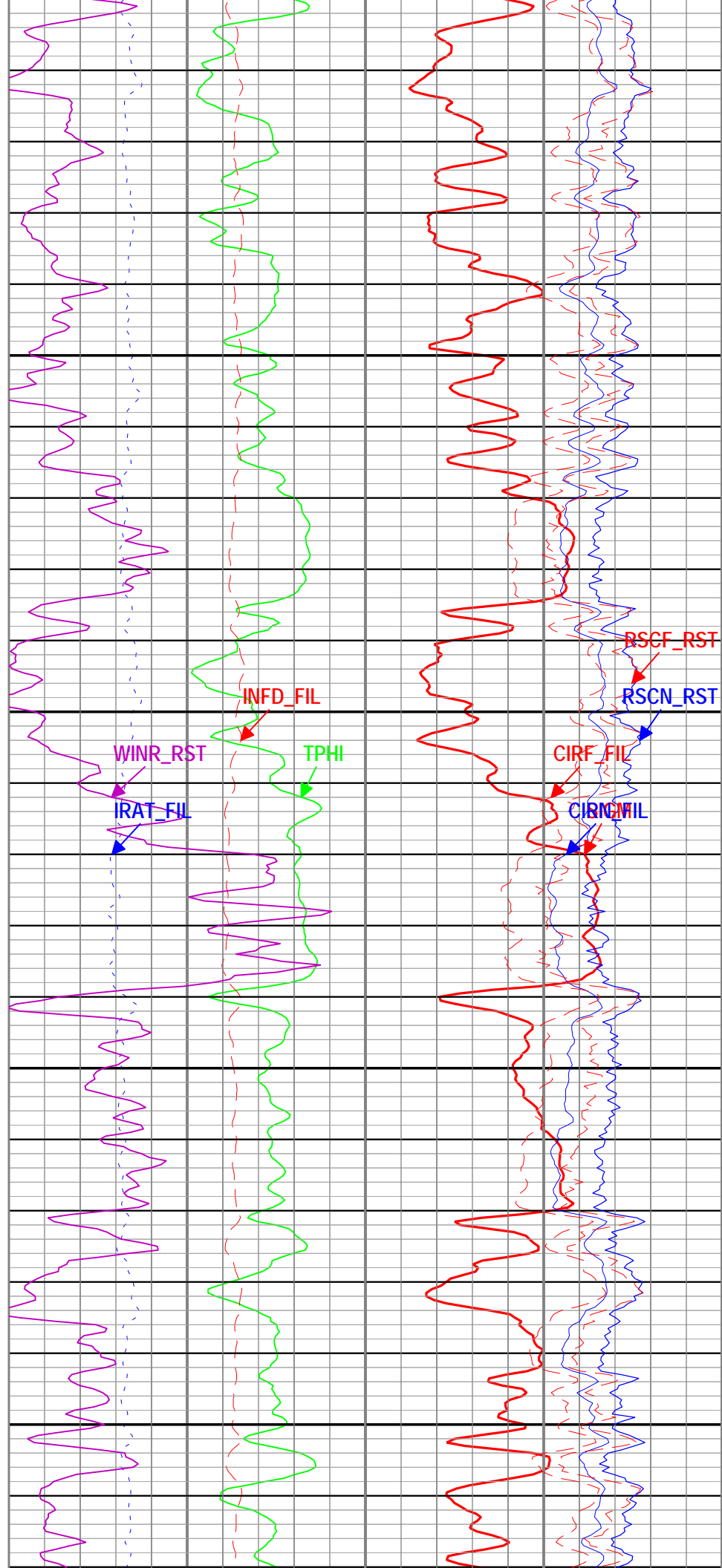
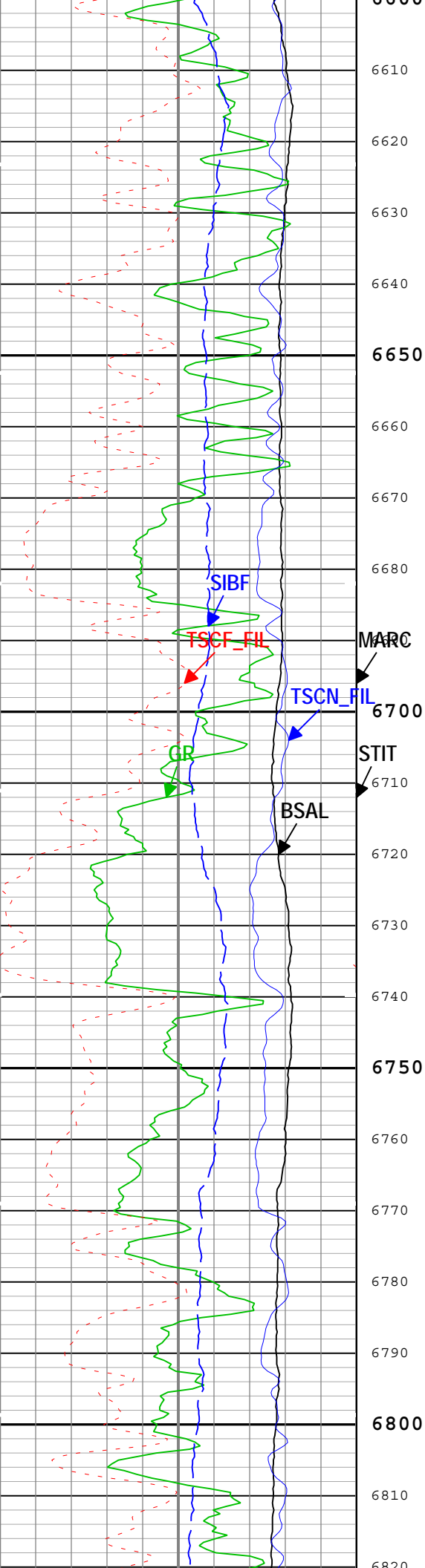


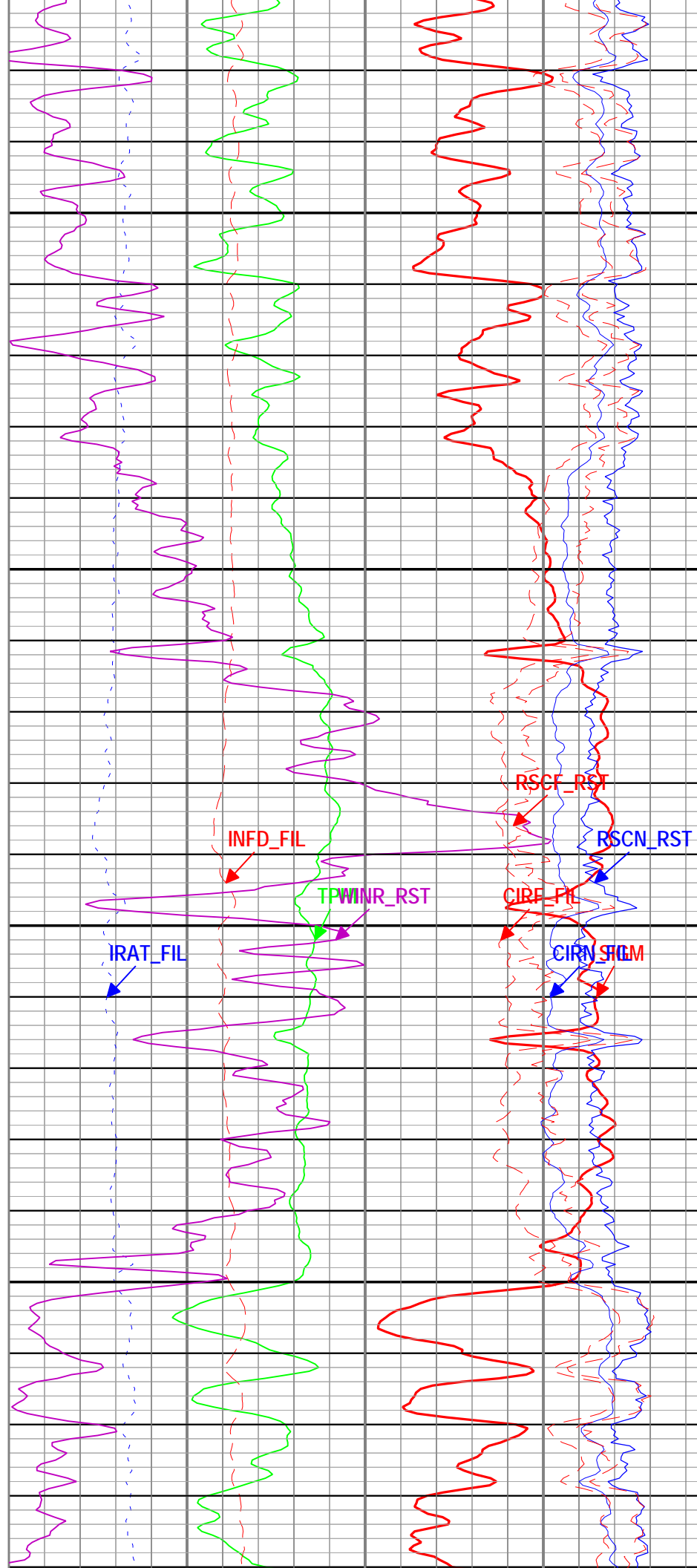
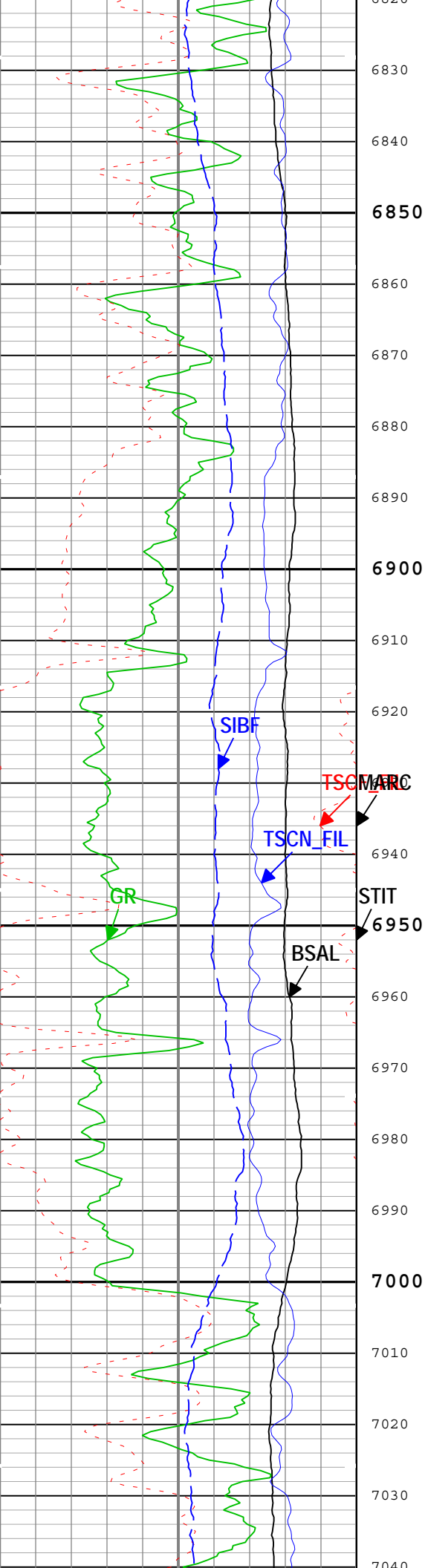


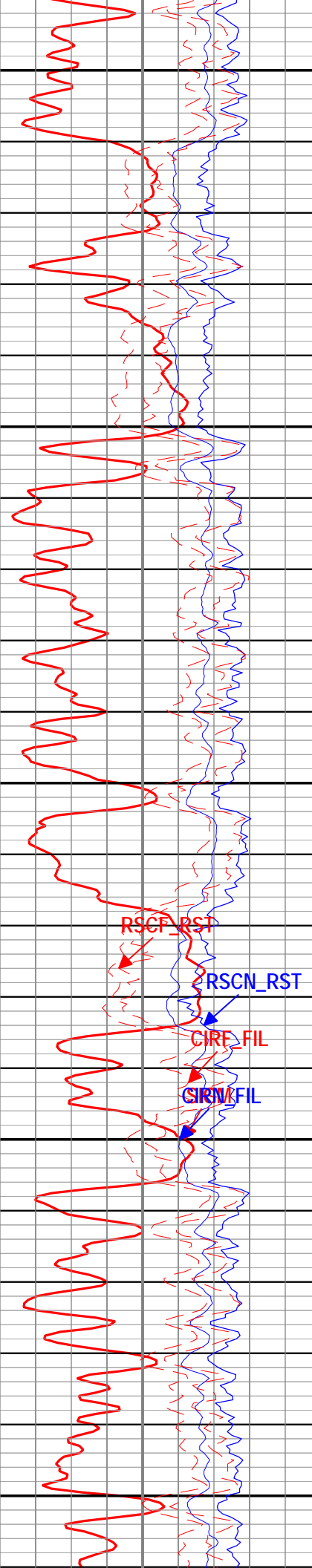
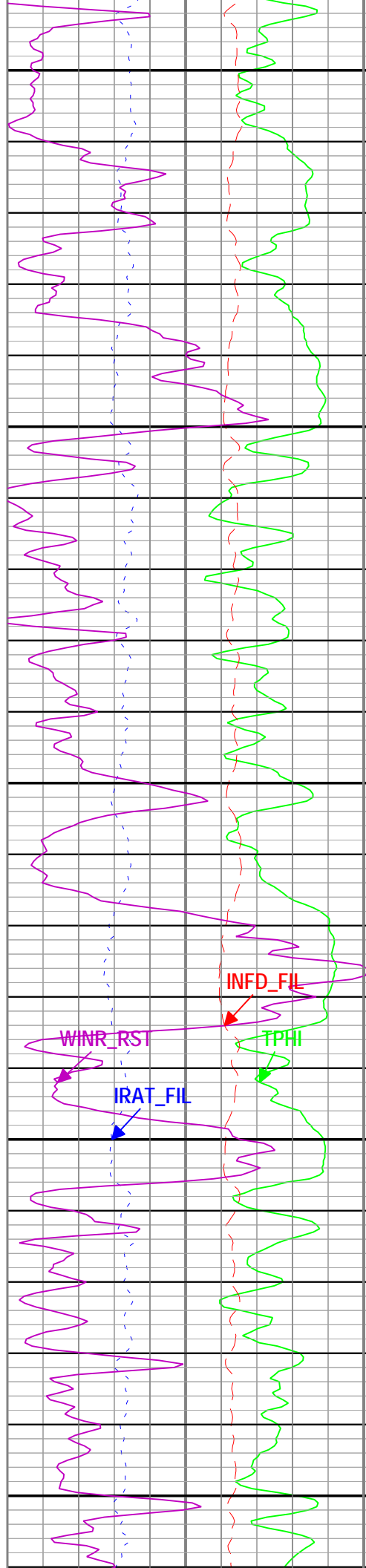
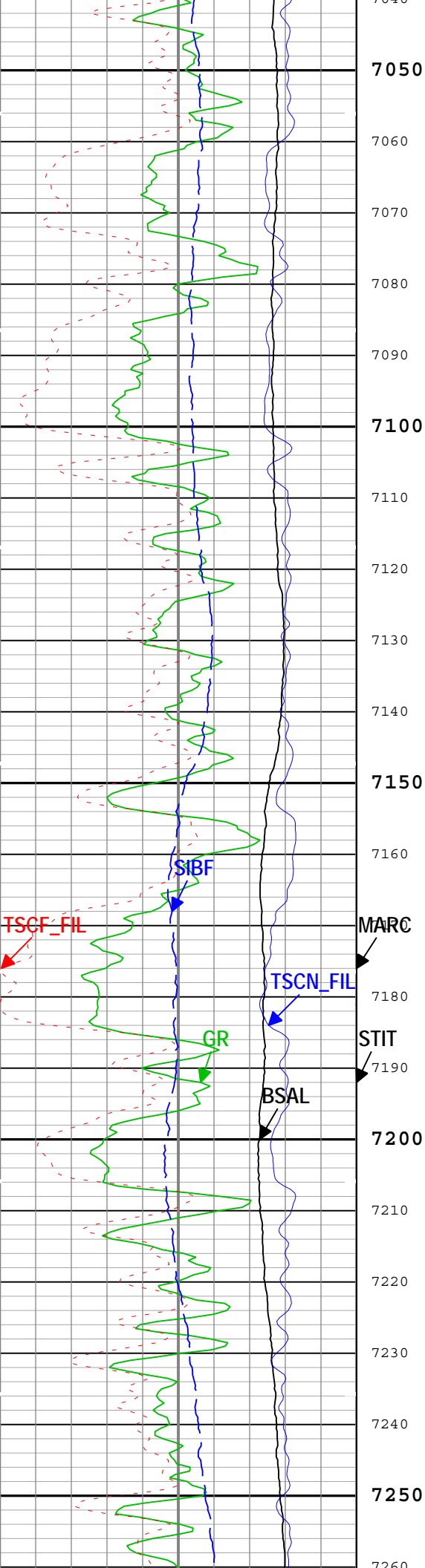


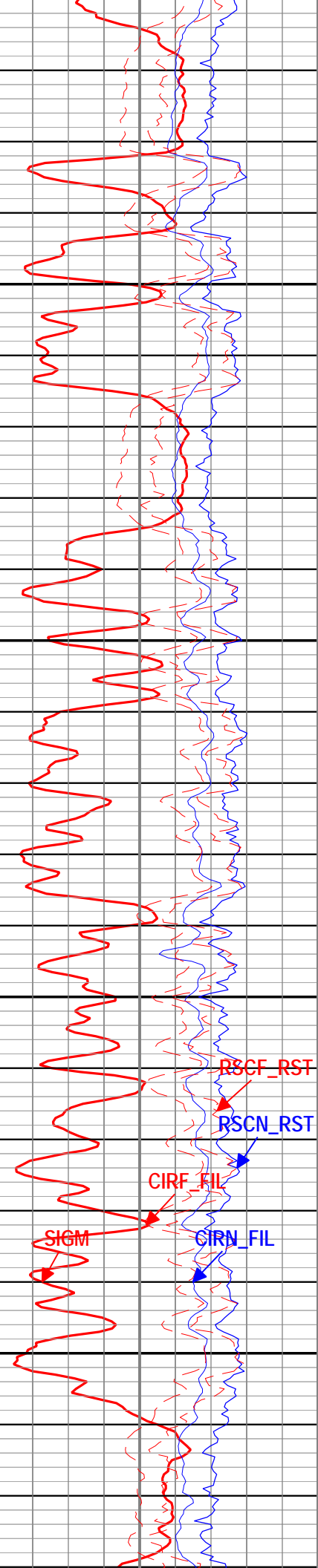
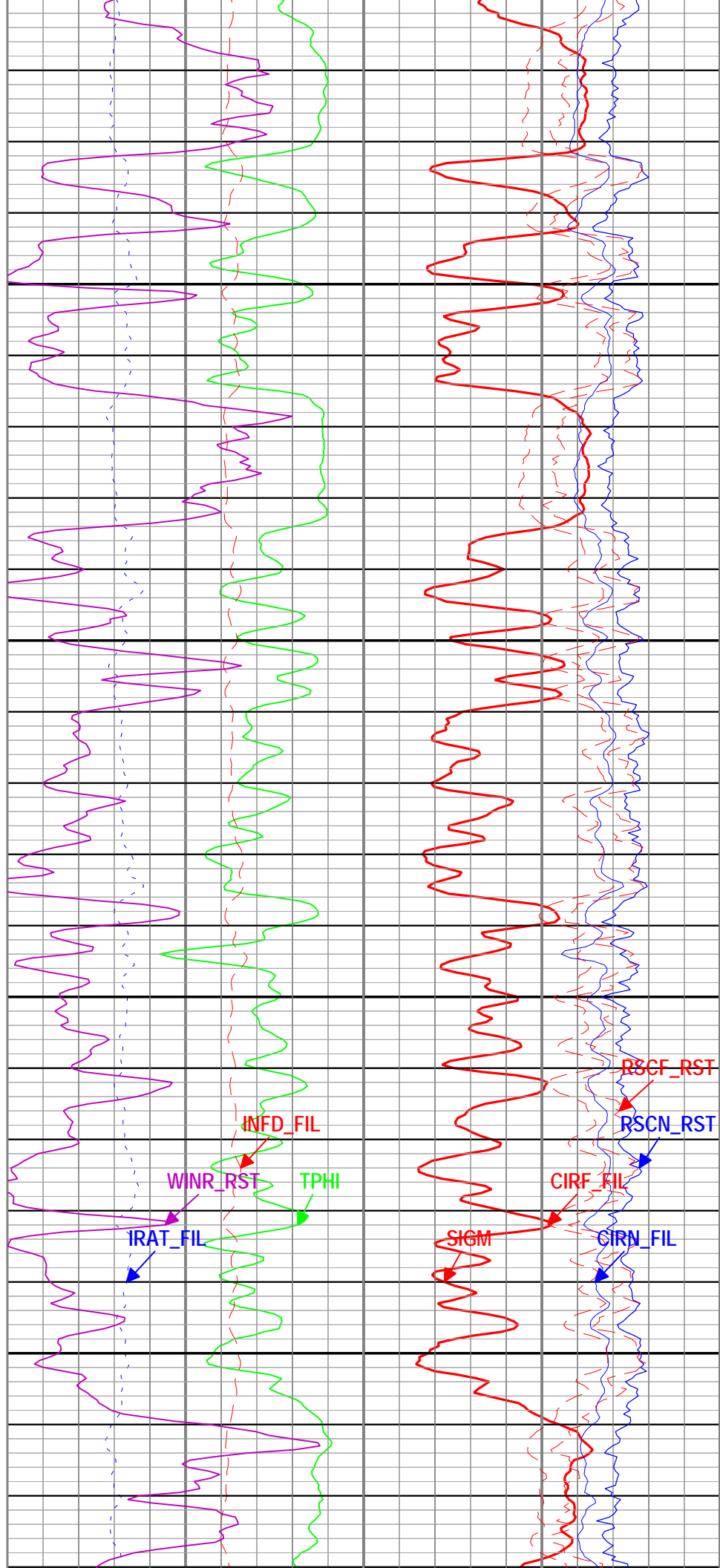
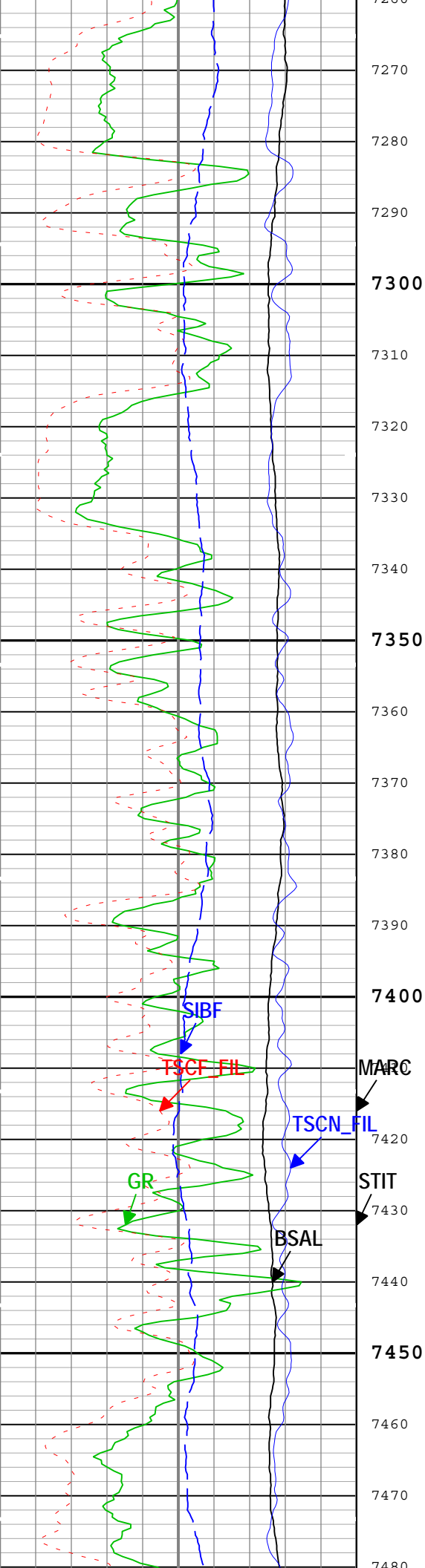


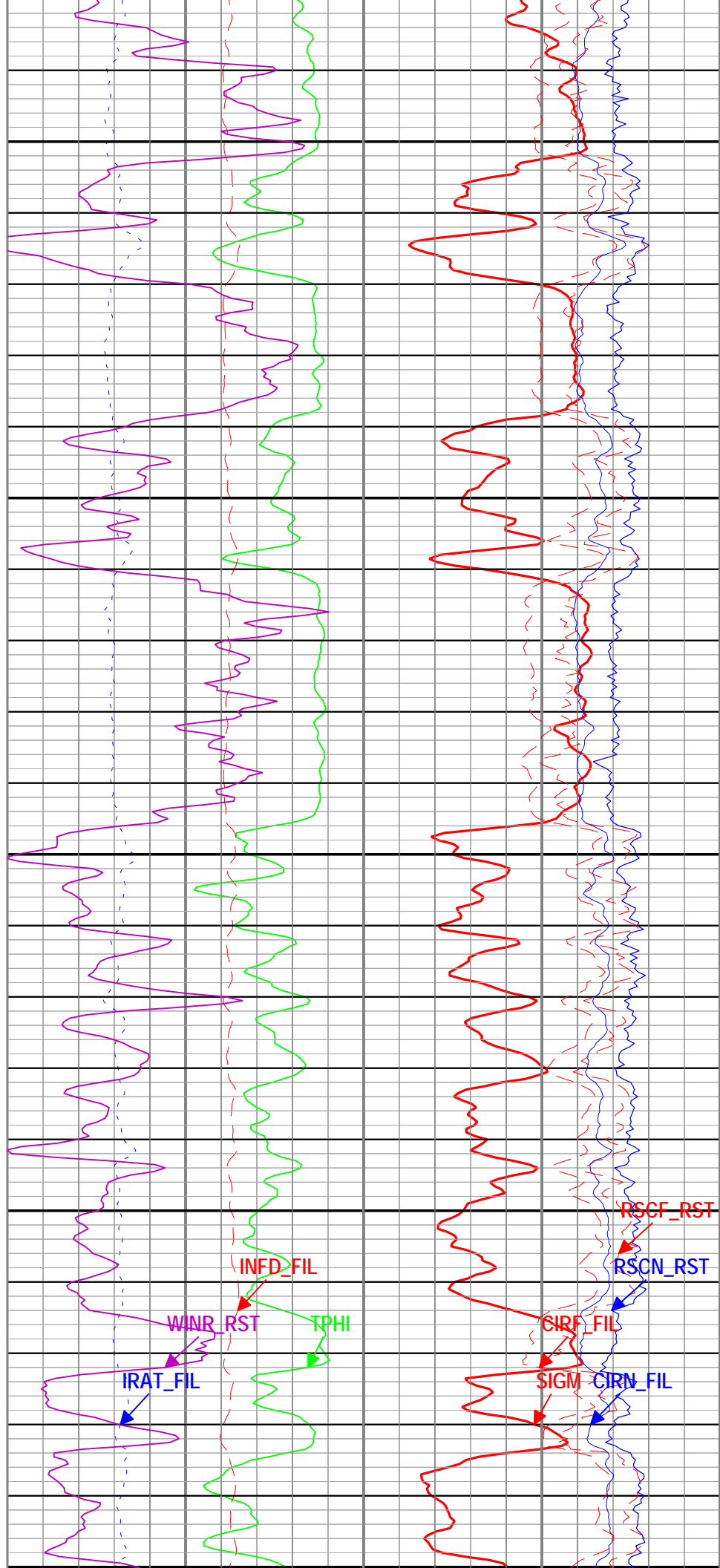
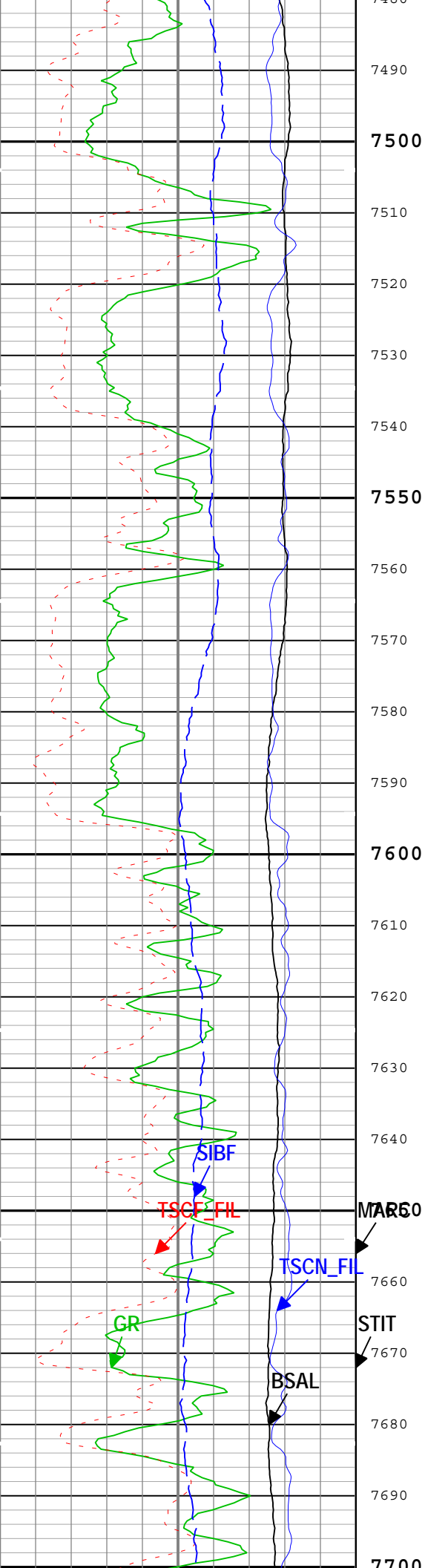


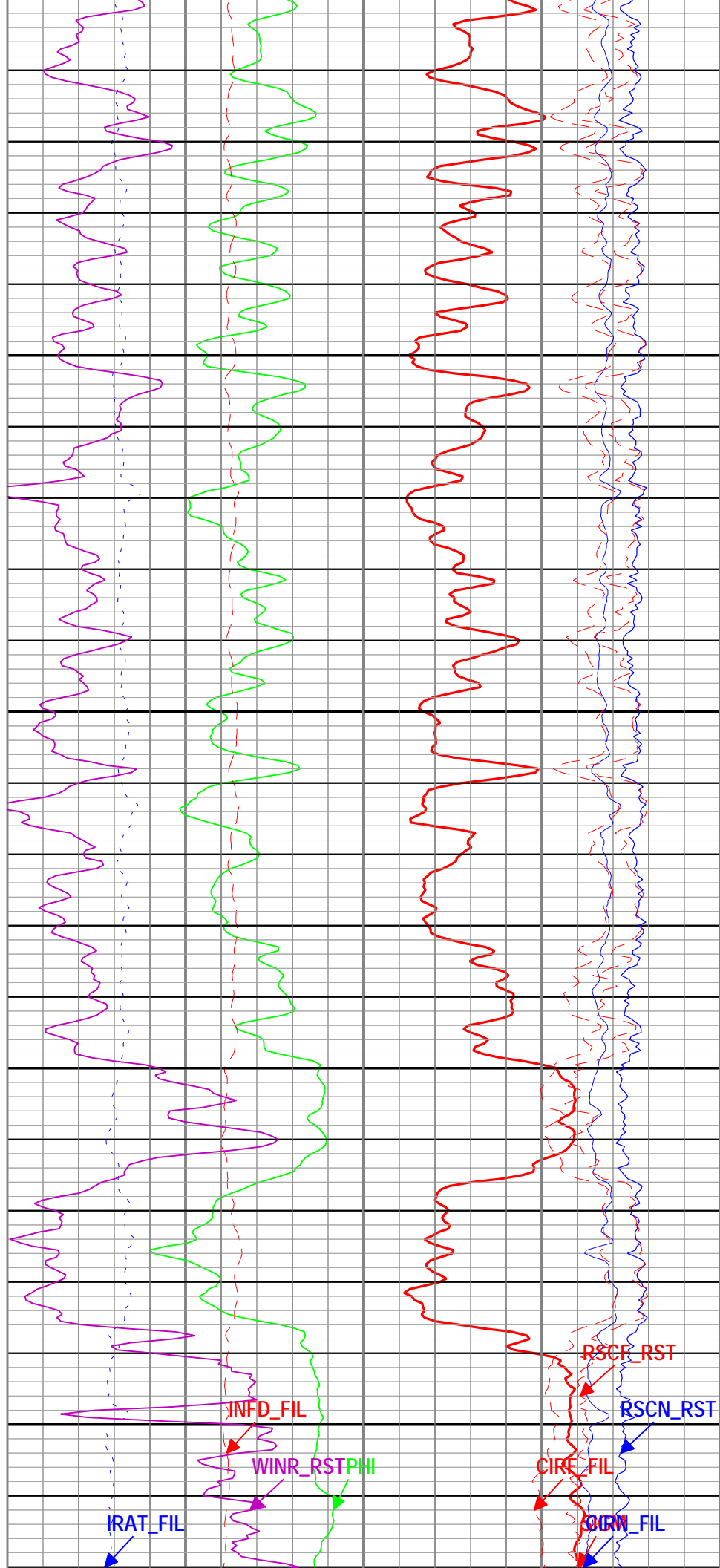
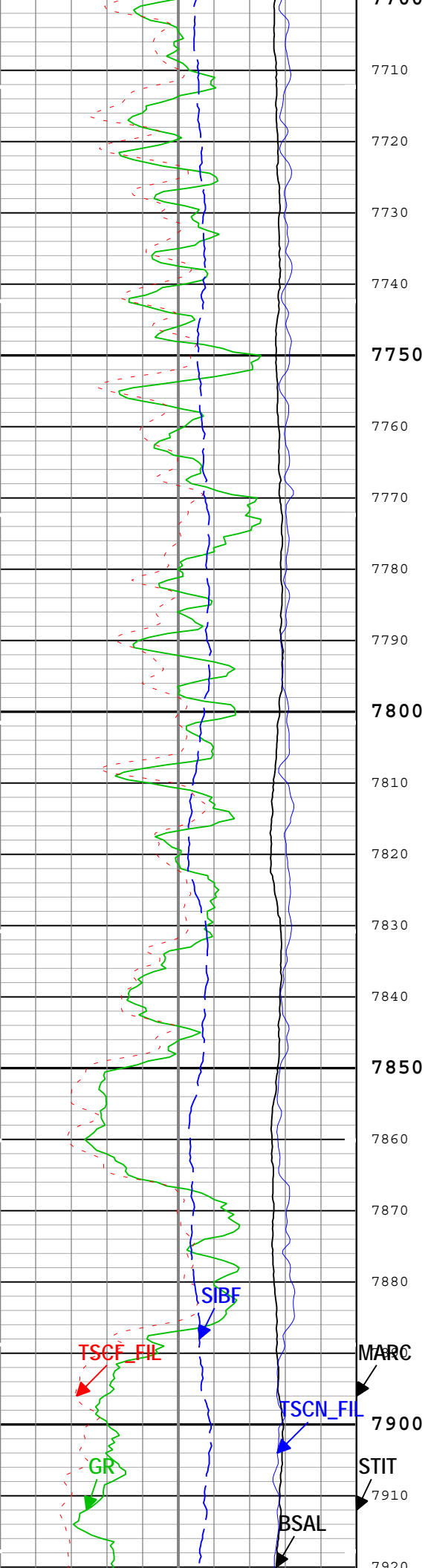


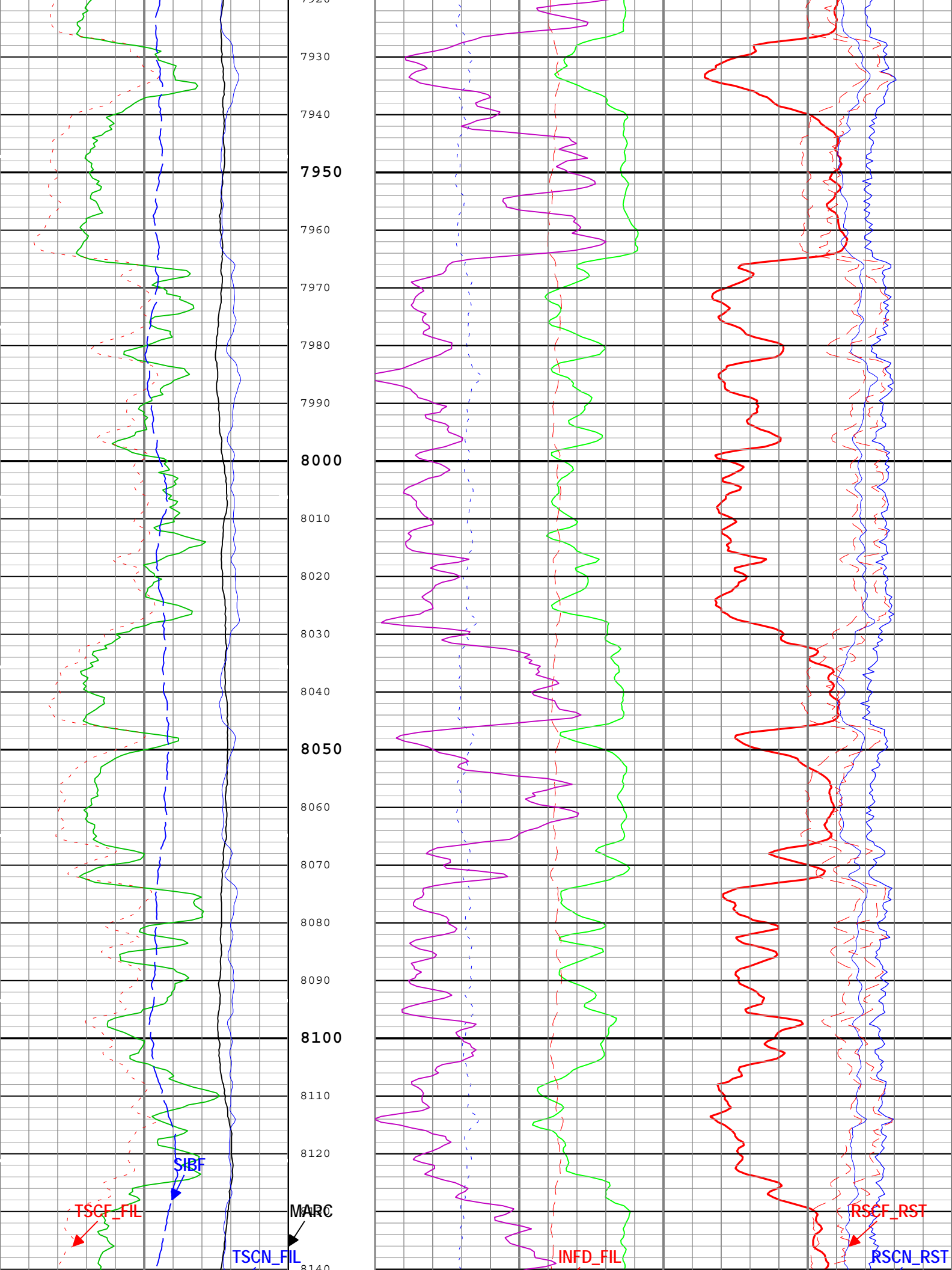


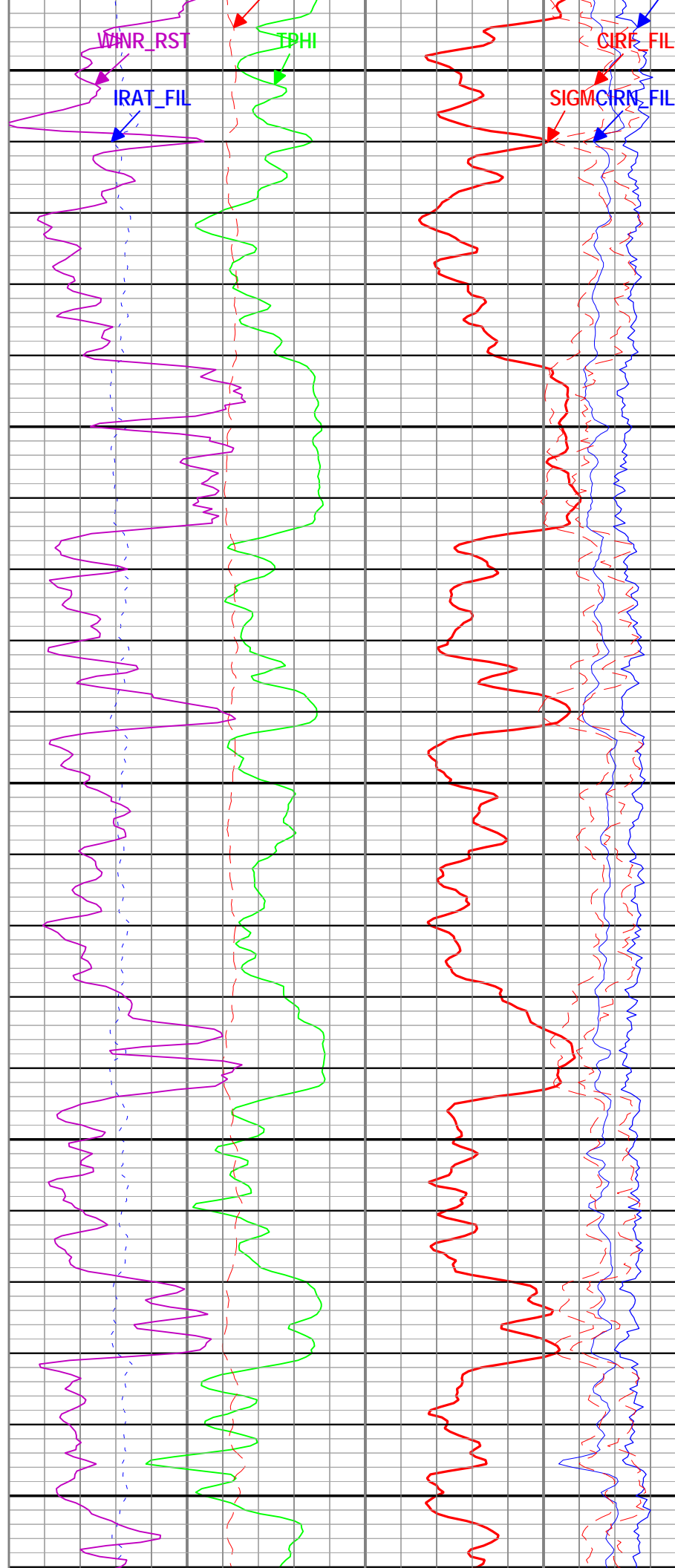
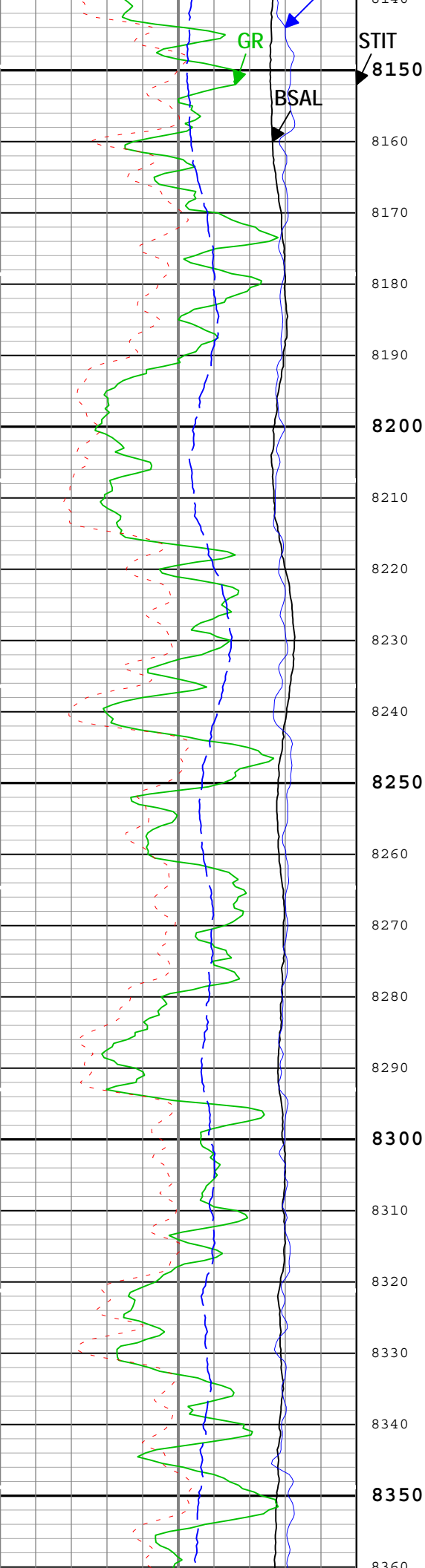


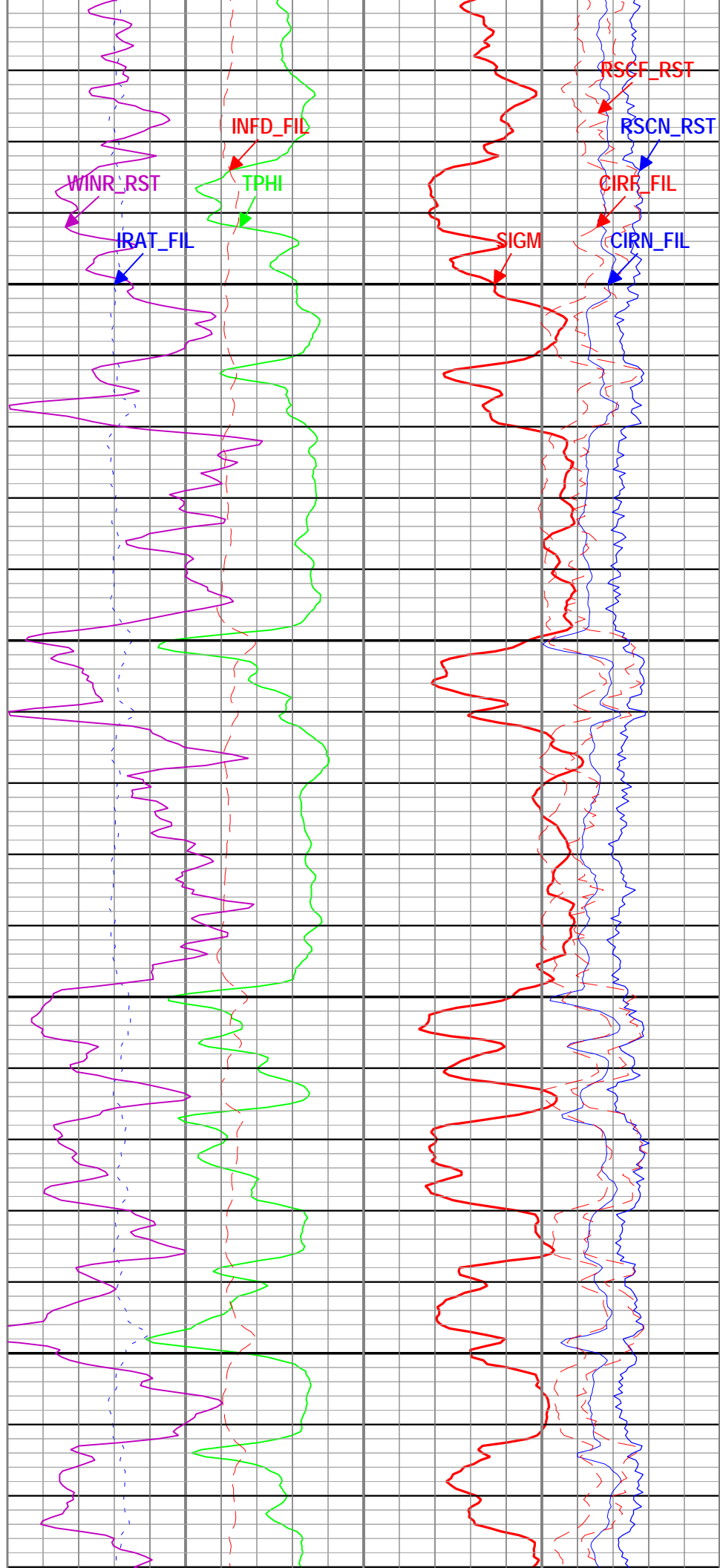
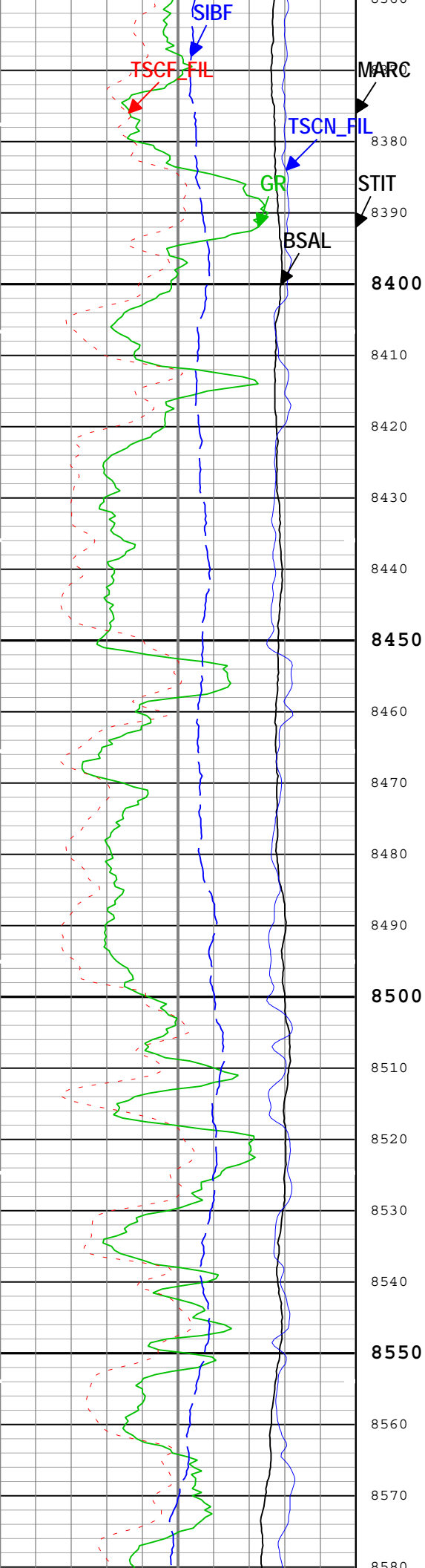


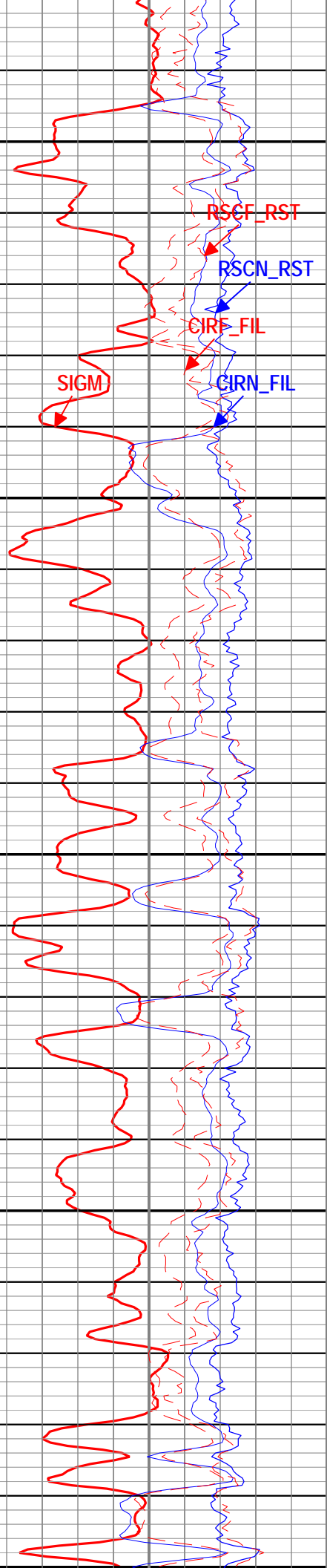
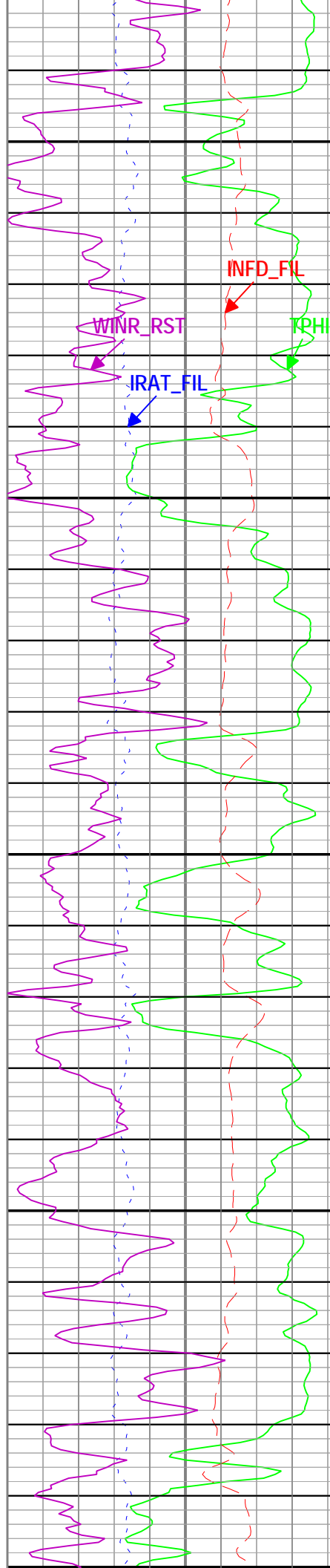
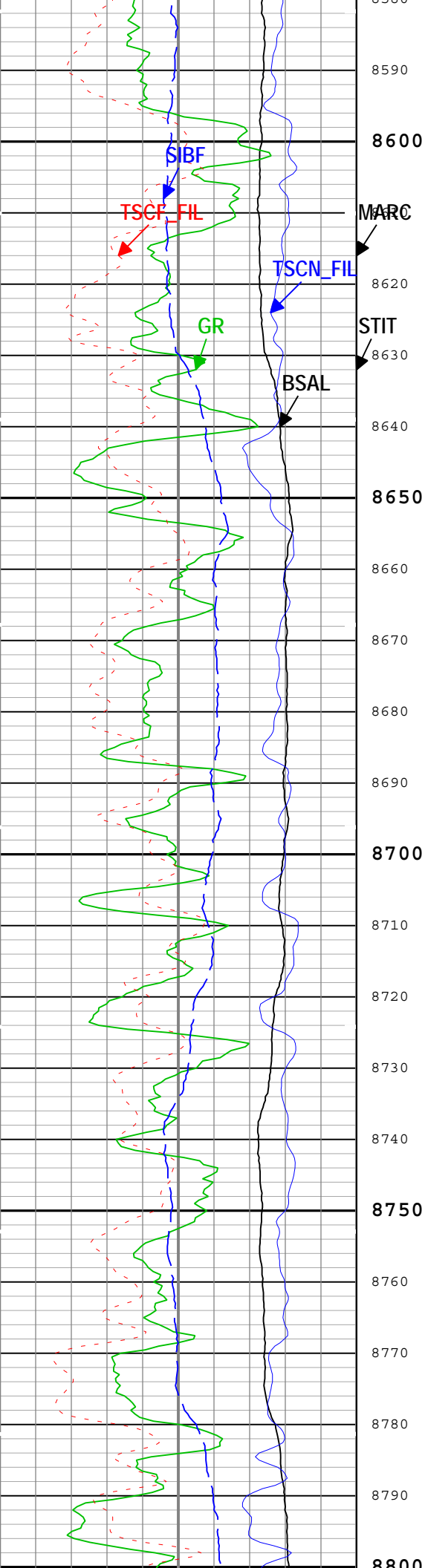


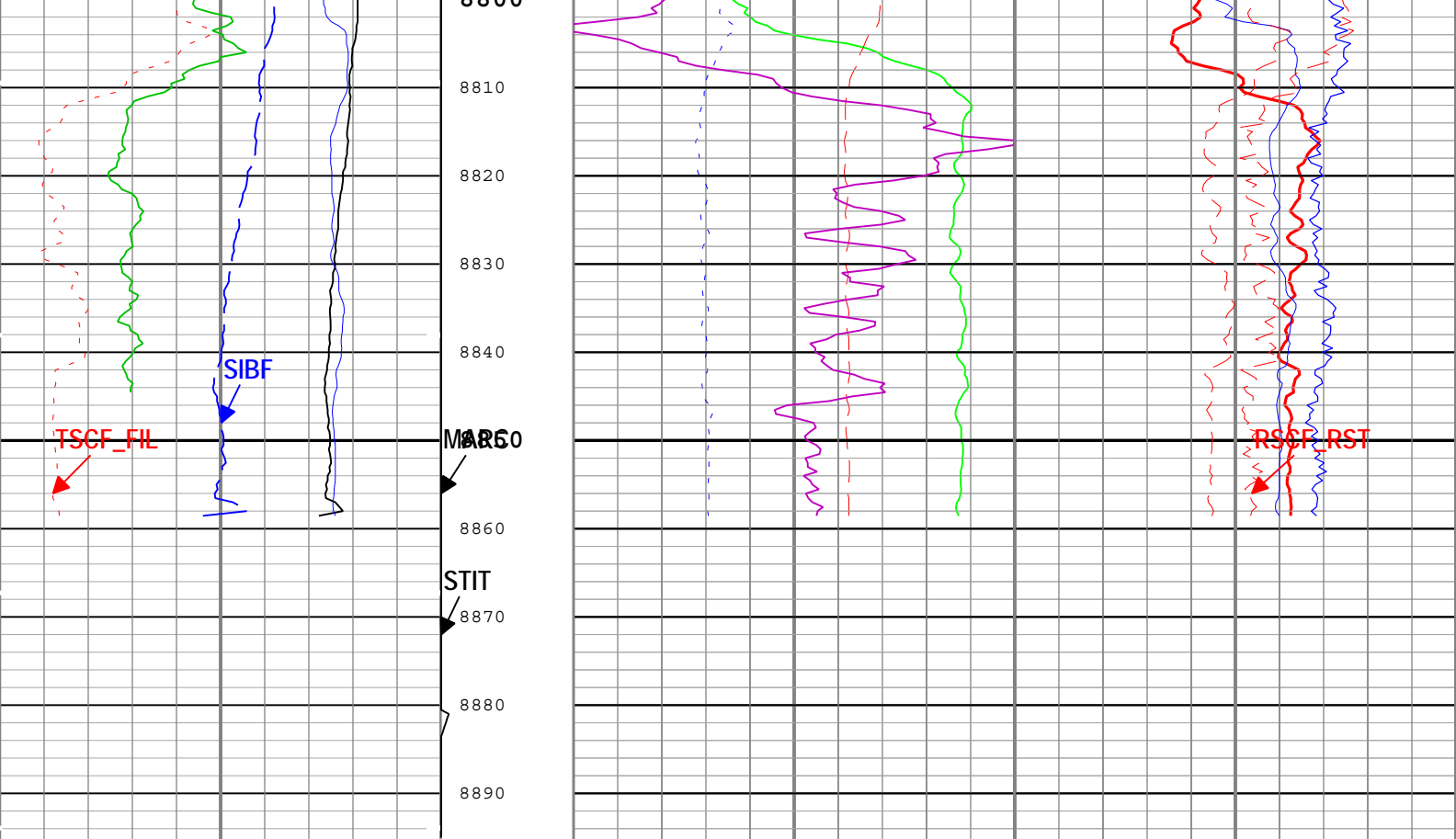












Borehole Salinity (BSAL) RST-C			Stuck Tool Indicator, Total (STIT)	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
450	ppk	-50		60	cu	0
Gamma Ray (GR) PSTP-A			0 ft 50	Weighted Inelastic Ratio (WINR_RST) RST-C		
0	gAPI	150		0		0.4
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) 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
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
			0			45
						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: 20-Jul-2015 15:30:04

Channel Processing Parameters				
Run 1: 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	
TD	Total Measured Depth	Borehole	8897	ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	14.75	2426.5	2515
BS	8.75	2515	8895.37
All depth are actual.			

Tool Control Parameters

Run 1: 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	

Run 1

Repeat Analysis

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 1	Repeat[2]:Up	Up	8538.54 ft	8894.84 ft	20-Jul-2015 9:51:30 AM	20-Jul-2015 10:04:01 AM	ON	2.02 ft	Yes
Run 1	Main[3]:Up	Up	2476.95 ft	8895.37 ft	20-Jul-2015 10:14:08 AM	20-Jul-2015 2:02:05 PM	ON	2.74 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Caerus Piceance LLC Well:Puckett 41D-2 Run 1: Main[3]:Up:S017
-----	---

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: 20-Jul-2015 15:30:07

TIME_1900 - Time Marked every 60.00 (s)

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

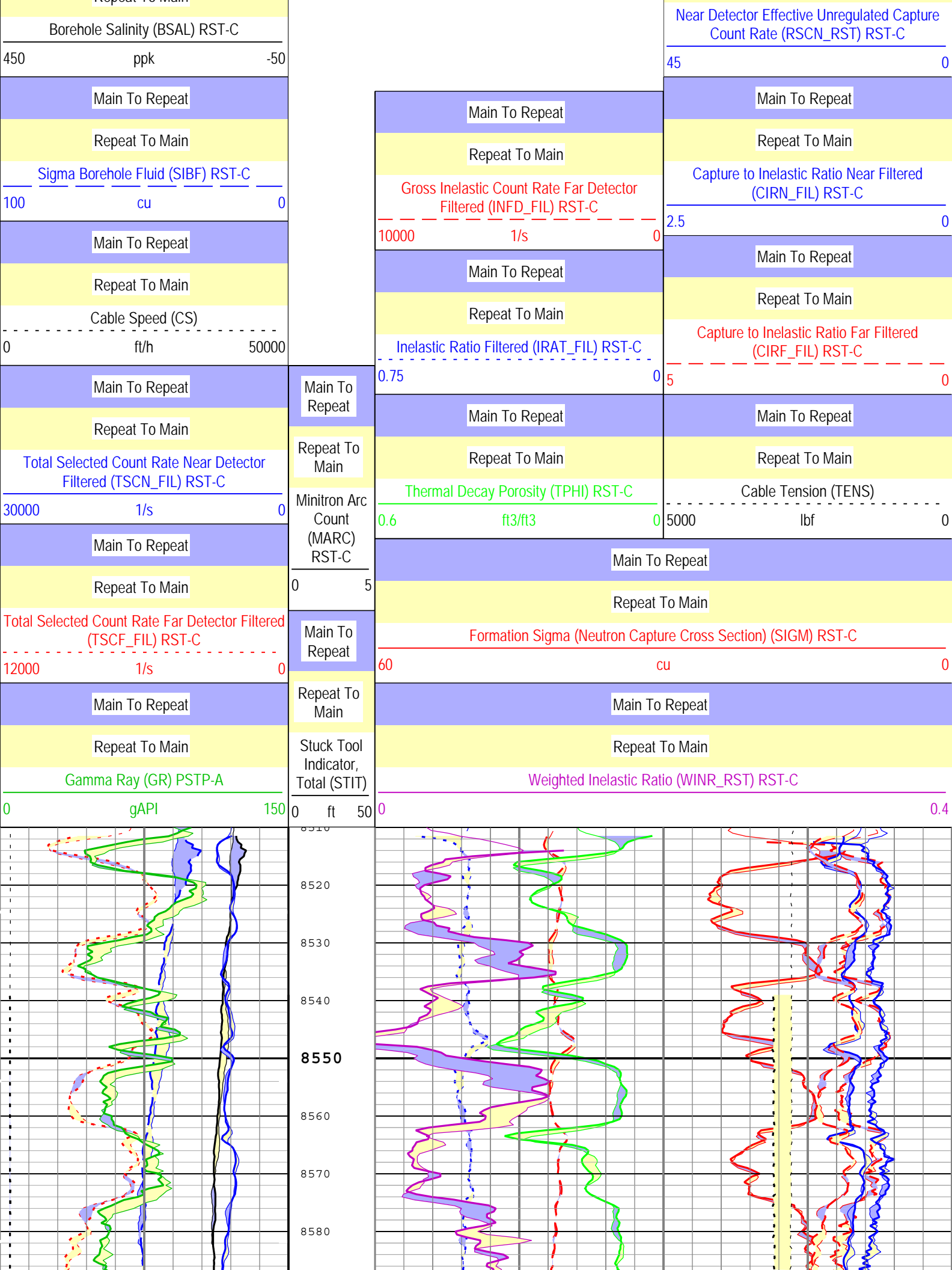
└─ IHV - Integrated Hole Volume every 10.00 (ft3)

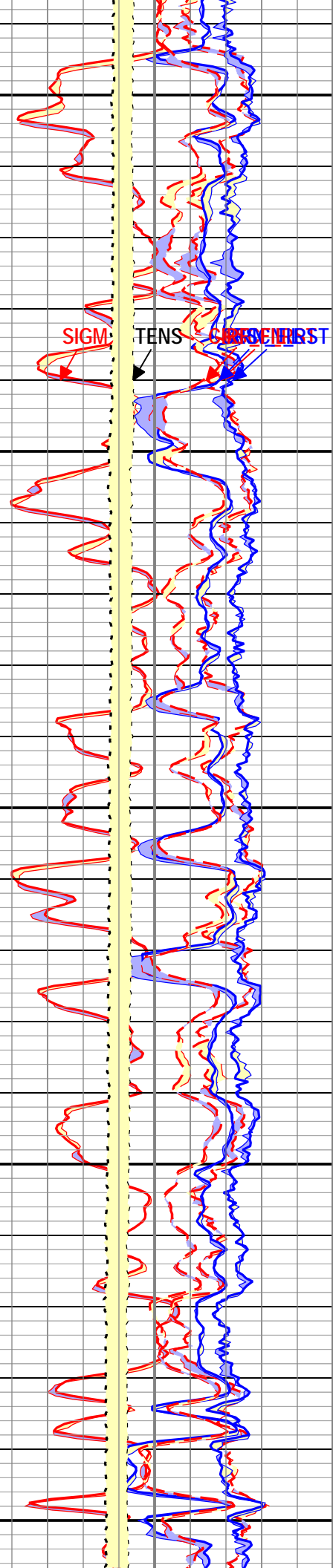
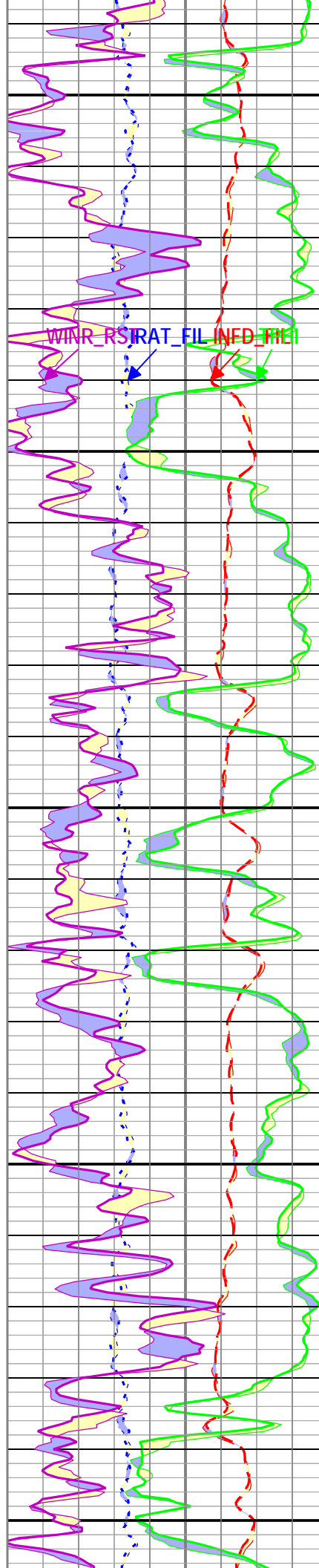
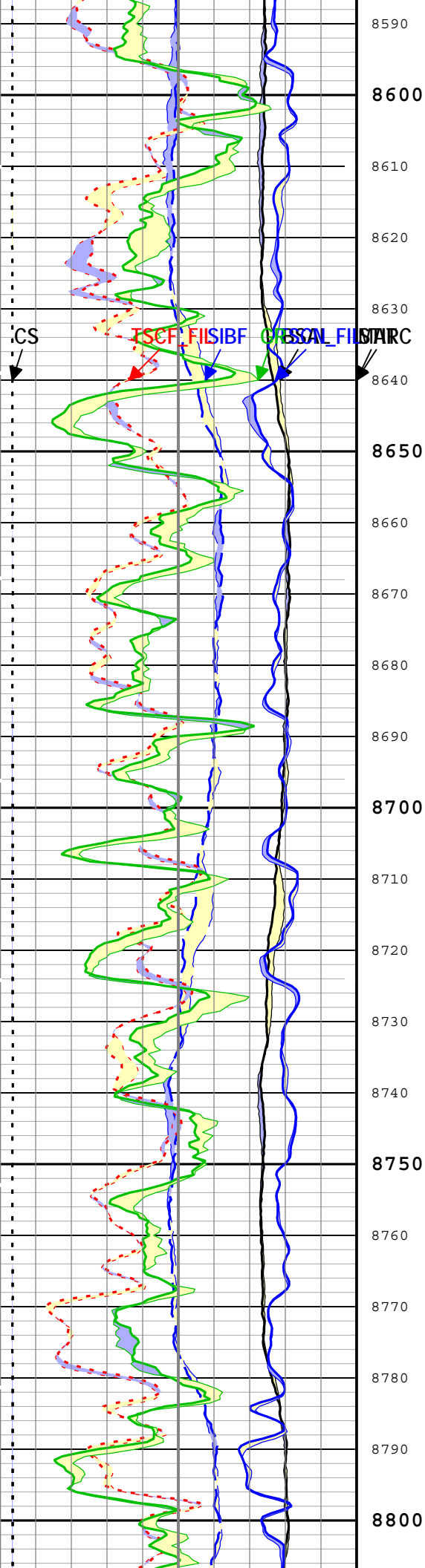
└─ IHV - Integrated Hole Volume every 100.00 (ft3)

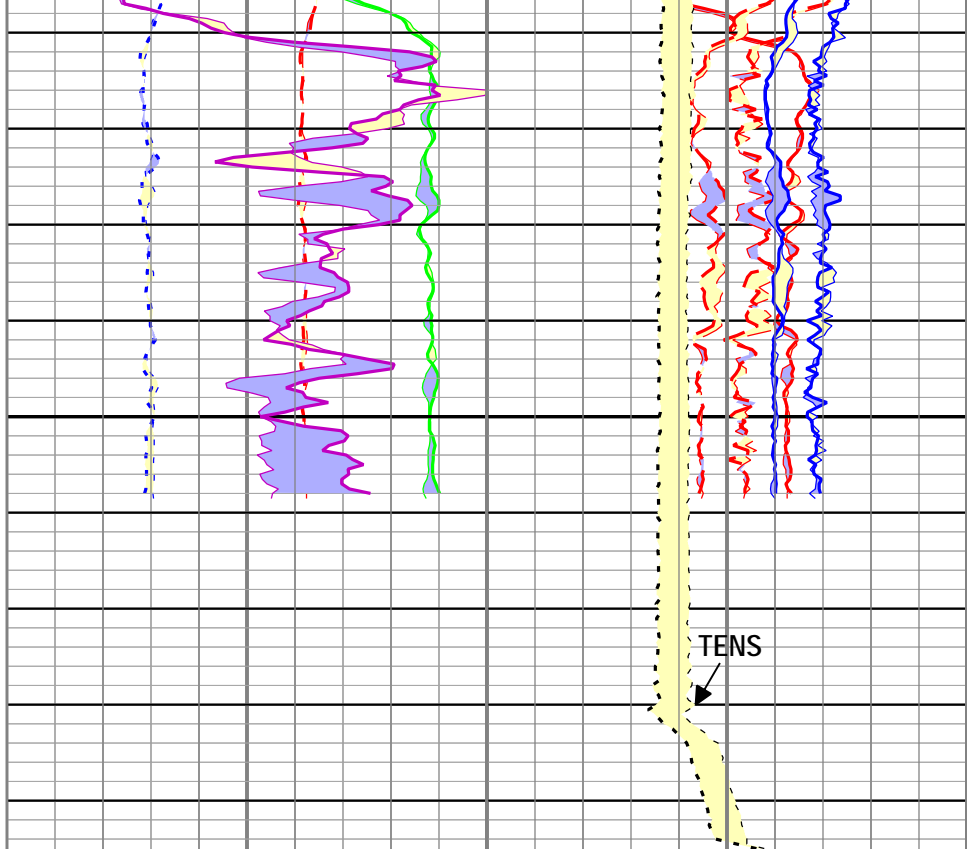
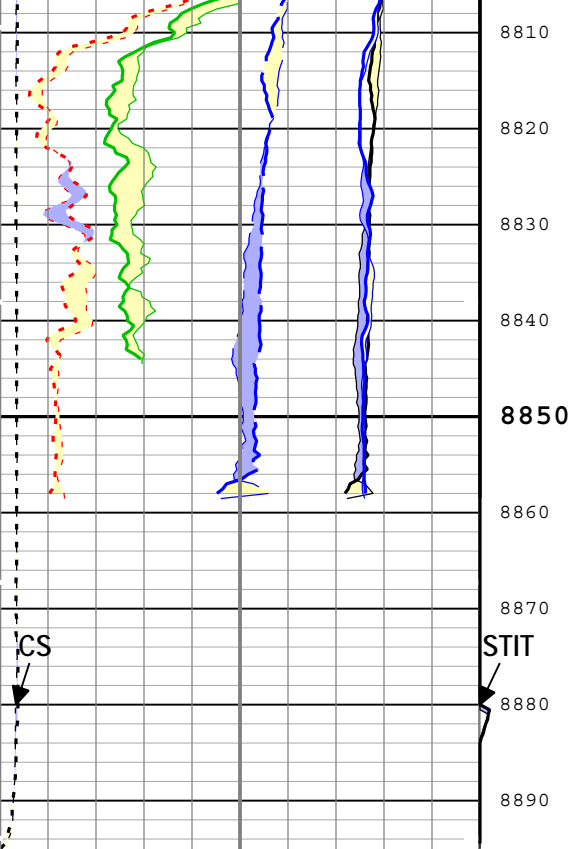
└─ ICV - Integrated Cement Volume every 10.00 (ft3)

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

	Main To Repeat
	Repeat To Main
	Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
45	0
Main To Repeat	Main To Repeat
Repeat To Main	Repeat To Main







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
Cable Speed (CS)
0ft/h50000
Main To Repeat
Repeat To Main
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C
300001/s0
Main To Repeat
Repeat To Main
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C
120001/s0

Main To Repeat
Repeat To Main
Minitron Arc Count (MARC) RST-C
05
Main To Repeat
Repeat To Main
Stuck Tool Indicator, Total (STIT)
0ft50

Main To Repeat
Repeat To Main
Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C
60cu0
Main To Repeat
Repeat To Main
Weighted Inelastic Ratio (WINR_RST) RST-C
00.4
Main To Repeat
Repeat To Main
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C
100001/s0
Main To Repeat
Repeat To Main
Inelastic Ratio Filtered (IRAT_FIL) RST-C
0.750
Main To Repeat
Repeat To Main
Thermal Decay Porosity (TPHI) RST-C
0.6ft3/ft30
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		
Gamma Ray (GR) PSTP-A		
0	gAPI	150

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: 20-Jul-2015 15:30:07

Run 1

Software Version	
Acquisition System	Version
Maxwell	5.1.33858.3100
Application Patch	Maxwell_NPD-PNX-2014-SP1_5.1.43154

Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 1	Repeat[2]:Up	Up	8538.54 ft	8894.84 ft	20-Jul-2015 9:51:30 AM	20-Jul-2015 10:04:01 AM	ON	2.02 ft	Yes
All depths are referenced to toolstring zero									

Log	Company:Caerus Piceance LLC Well:Puckett 41D-2 Run 1: Repeat[2]:Up:S017
-----	---

Description: RST SIGMA Quality Format: Log (RST SIGMA Quality) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 20-Jul-2015 15:30:09

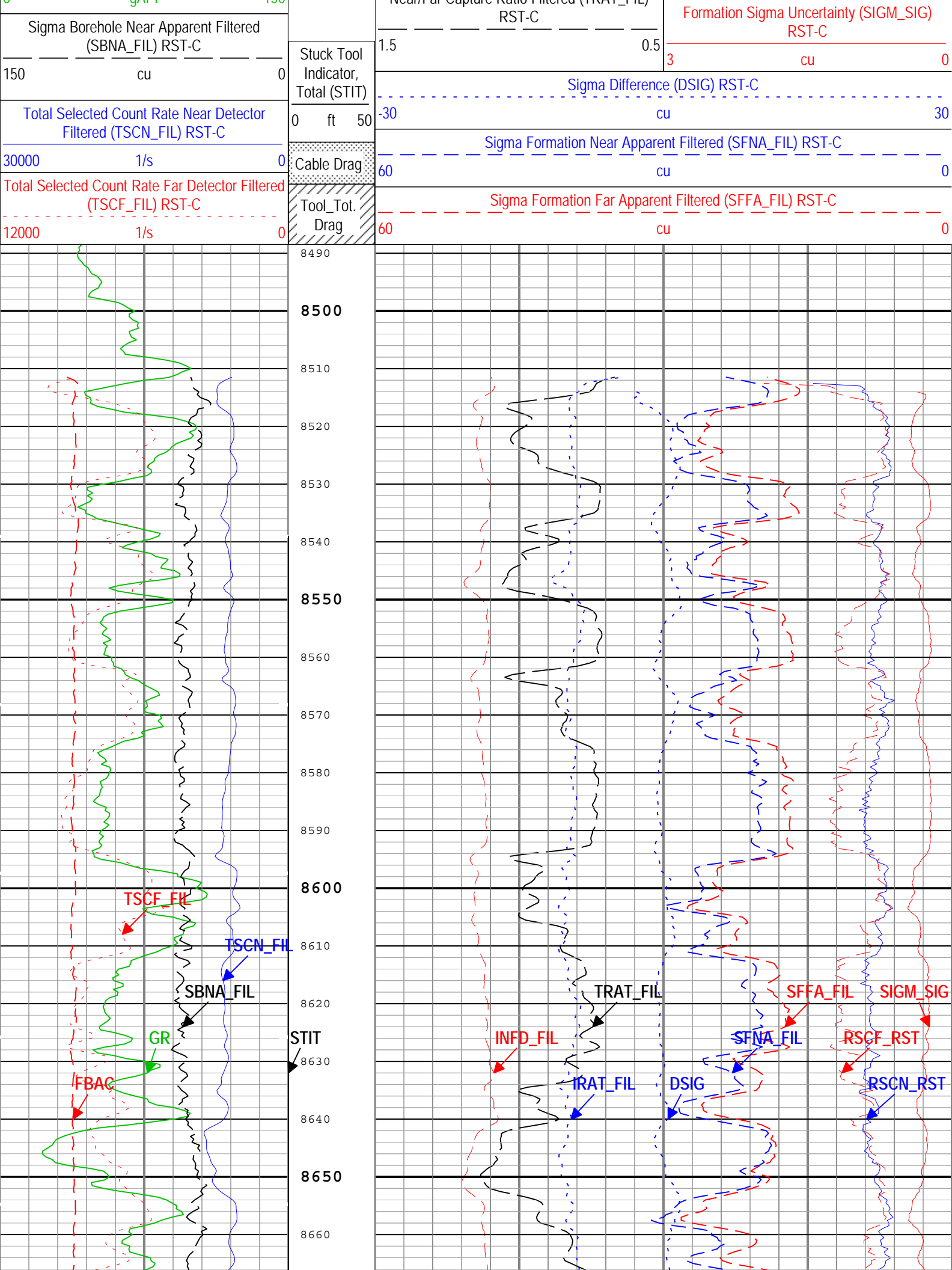
IHV - Integrated Hole Volume every 10.00 (ft3)		
IHV - Integrated Hole Volume every 100.00 (ft3)		
TIME_1900 - Time Marked every 60.00 (s)		
ICV - Integrated Cement Volume every 10.00 (ft3)		
TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)		
ICV - Integrated Cement Volume every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

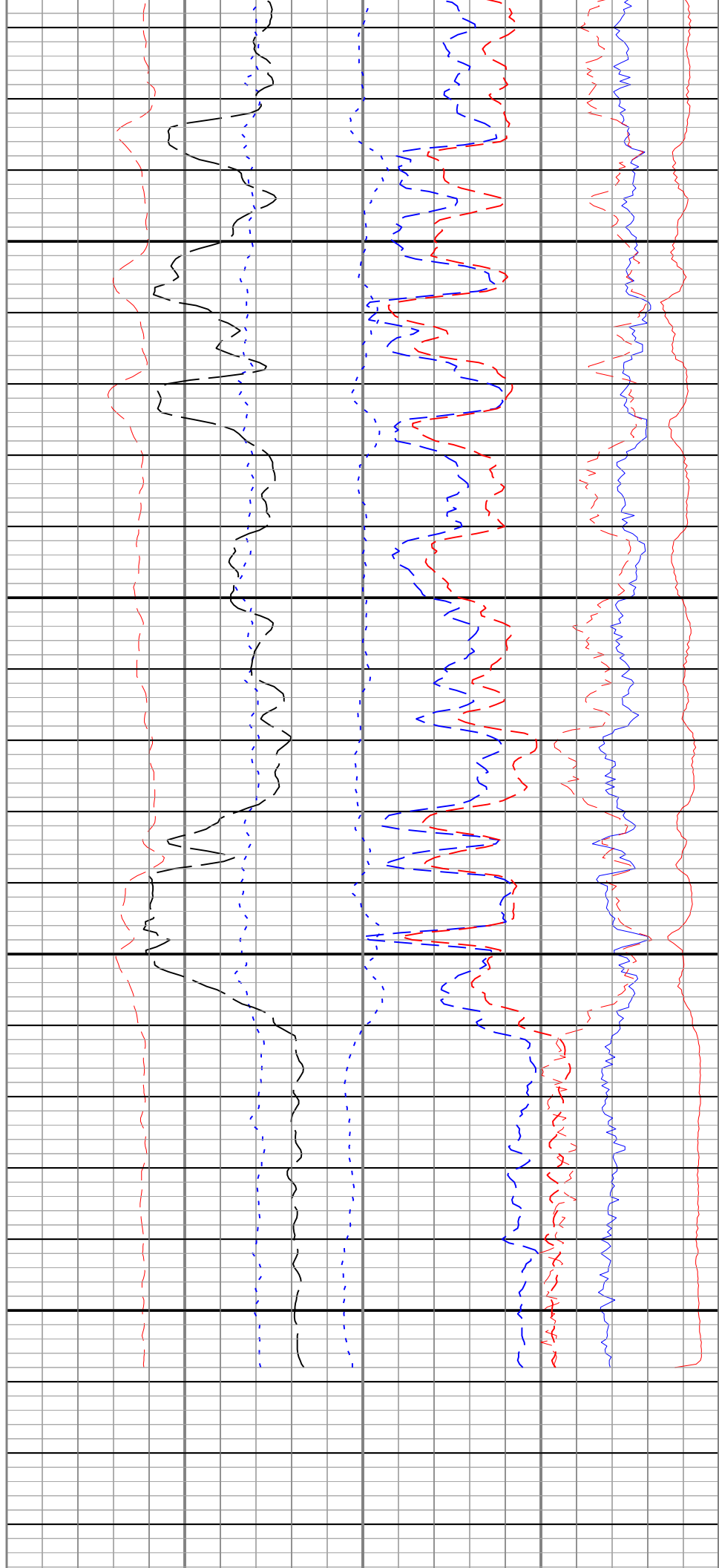
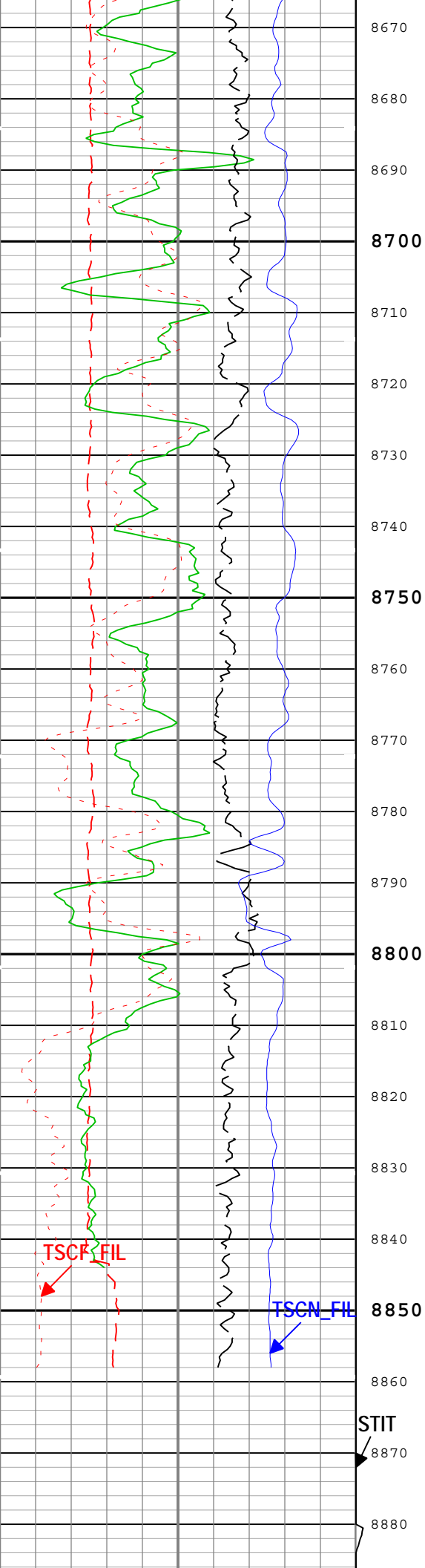
Far Background Count Rate (FBAC) RST-C		
0	1/s	10000
Gamma Ray (GR) PSTP-A		
0	gAPI	150

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

Inelastic Ratio Filtered (IRAT_FIL) RST-C	Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C
00.75	450
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C	Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
01/s10000	450
Near/Ear Capture Ratio Filtered (TRAT_FIL) RST-C	

Main To Repeat		
Repeat To Main		
Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C		
5		0
Main To Repeat		
Repeat To Main		
Cable Tension (TENS)		
5000	lbf	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		

Master (Measured):		14:57:24 17-Jul-2015					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Spectral Acquisition Time Calibration Coefficient	s	Master		300.0	300.3		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Near/Far Capture Ratio Calibration Coefficient		Master	0.980	0.930	0.982	1.030	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sigma Formation Near Apparent Calibration Coefficient - 0	1/m	Master	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sigma Formation Far Apparent Calibration Coefficient - 0	1/m	Master	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Near Pulse Shape Compensation Voltage Setting Echo Calibration Coefficient	V	Master	3.500	2.445	3.700	4.555	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Far Pulse Shape Compensation Voltage Setting Echo Calibration Coefficient	V	Master	3.325	2.095	2.433	4.555	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Near Photomultiplier High Voltage Setting Echo Calibration Coefficient	V	Master	1400.000	1100.000	1145.795	1700.000	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Far Photomultiplier High Voltage Setting Echo Calibration Coefficient	V	Master	1400.000	1100.000	1183.172	1700.000	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Minitron Measured Beam Current Calibration Coefficient	uA	Master	75.000	50.000	85.102	100.000	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Grid Current Peak Calibration Coefficient	mA	Master	60.000	58.000	60.036	62.000	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Minitron Measured Extractor Current Calibration Coefficient	uA	Master	499.500	0	0.000	999.000	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Minitron Measured High Voltage Calibration Coefficient	kV	Master	73.000	50.000	80.028	96.000	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Near Instantaneous Count Rate Calibration Coefficient	kHz	Master	400.000	340.000	349.576	460.000	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Near/Far Count Rate Ratio Calibration Coefficient		Master	1.300	1.000	1.471	1.600	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

PSTP-A (PSP Telemetry Platform A - Sapphire) Calibration - Run 1

Primary Equipment :

PBMS-A

PBMS-A

3869

Calibration Parameter :

JIG-BKGD (Jig minus background reference)

160

PBMS Gamma Ray Check - PBMSA Gamma Ray Accumulations

Before (Measured):

15:56:11 17-Jul-2015

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
GR Zero Average	gAPI	Before	30	0	78.13891	120	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
GR Zero Standard Deviation	gAPI	Before			30.56431		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
GR Zero Max Deviation	gAPI	Before			140.6766		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
GR Plus Average	gAPI	Before			243.2695		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
GR Plus Standard Deviation	gAPI	Before			52.43734		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
GR Plus Max Deviation	gAPI	Before			155.7471		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Jig-Background	gAPI	Before	160	145	165.1305	175	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

PBMS Well Temp Master Calibration

Master (EEPROM): 00:00:00 18-Jul-2007

PBMS_RTD_THERM (Master) RTD Coefficients

	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tt**0	-756.3505	527.1629	-155.9385	25.88661	-1.571709	0

PBMS Gamma Ray Master Calibration

Master (EEPROM): 00:00:00 18-Jan-2007

PBMS_GR_MODEL (Master) GR Coefficients

	Rt**0	Rt**1
Rt**0	2000	2000

PBMS A Reference Clock Master Calibration

Master (EEPROM): 00:00:00 18-Jul-2007

PBMS_REF_CLOCK PBMS A Clock Coefficients
(Master)

	Temp**0	Temp**1	Temp**2	Temp**3	Temp**4	Temp**5
Temp**0	-192.7617	-5.343637	-0.09015581	0.000751289	2.272868E-06	0

PBMS A Sapphire Master Calibration

Master (EEPROM): 00:00:00 18-Jul-2007

PBMS_P_GAUGE_PRES Sapphire Pressure Model Coefficients
(Master)

	Tt**0	Tt**1	Tt**2	Tt**3	Tt**4	Tt**5
Tp**0	-10607.24	9983.964	-4422.383	811.7886	-55.39267	0
Tp**1	7317.382	-6510.243	3075.83	-562.8201	38.05563	0
Tp**2	27.61189	-4.173877	-2.572291	0	0	0
Tp**3	-4.186021	1.156646	0	0	0	0
Tp**4	0	0	0	0	0	0
Tp**5	0	0	0	0	0	0

PBMS_P_GAUGE_TEMP Sapphire Temperature Model Coefficients
(Master)

	Tp**0	Tp**1	Tp**2	Tp**3	Tp**4	Tp**5
Tt**0	-413.3419	3.522647	0.6707032	-0.5251858	0.07300035	0
Tt**1	168.969	-2.795898	-0.08934408	0.1774101	-0.0245917	0
Tt**2	-15.60143	0.6837218	-0.04823068	0	0	0
Tt**3	1.587509	-0.04120504	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 41D-2	
Field:	Wildcat	
County:	Garfield	
State:	Colorado	

Reservoir Saturation Tool
Sigma