

Company: Caerus Piceance LLC

Well: Puckett 13A-1

Field: Wildcat

County: Garfield State: Colorado

Reservoir Saturation Tool  
Sigma

County:	Garfield
Field:	Wildcat
Location:	SHL: S2, T7S, R97W
Well:	Puckett 13A-1
Company:	Caerus Piceance LLC
Location:	
SHL: S2, T7S, R97W	Elev.: K.B. 8509.00 ft
2222' FNL & 628' FEL	G.L. 8479.00 ft
LAT: 39.475692 / LONG: -108.180228	D.F. 8508.00 ft
Permanent Datum:	Ground Level
Log Measured From:	Kelly Bushing
Drilling Measured From:	Kelly Bushing
API Serial No.	Section: 2
05-045-22633	Township: 7S
	Range: 97W

Logging Date	24-Jul-2015
Run Number	ONE
Depth Driller	8899.00 ft
Schlumberger Depth	8899.00 ft
Bottom Log Interval	8893.00 ft
Top Log Interval	2500.00 ft
Casing Fluid Type	3% KCl
Salinity	
Density	9 lbm/gal
Fluid Level	0.00 ft
BIT/CASING/TUBING STRING	
Bit Size	8.75 in
From	2537.00 ft
To	8999.00 ft
Casing/Tubing Size	4.5 in
Weight	11.6 lbm/ft
Grade	P110
From	0.00 ft
To	8999.00 ft
Max Recorded Temperatures	
Logger on Bottom	Time
Unit Number	Location:
Recorded By	
Witnessed By	

Disclaimer

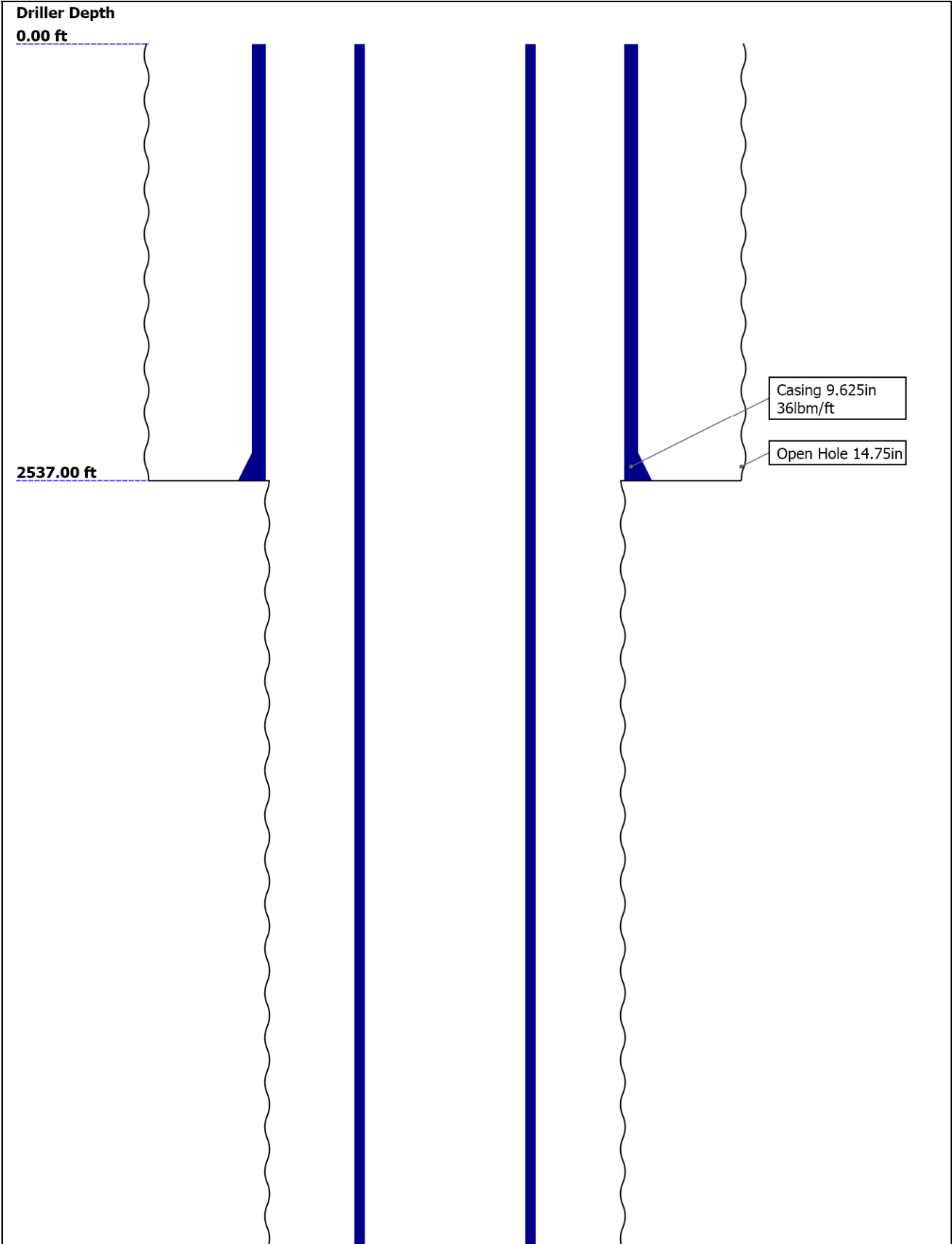
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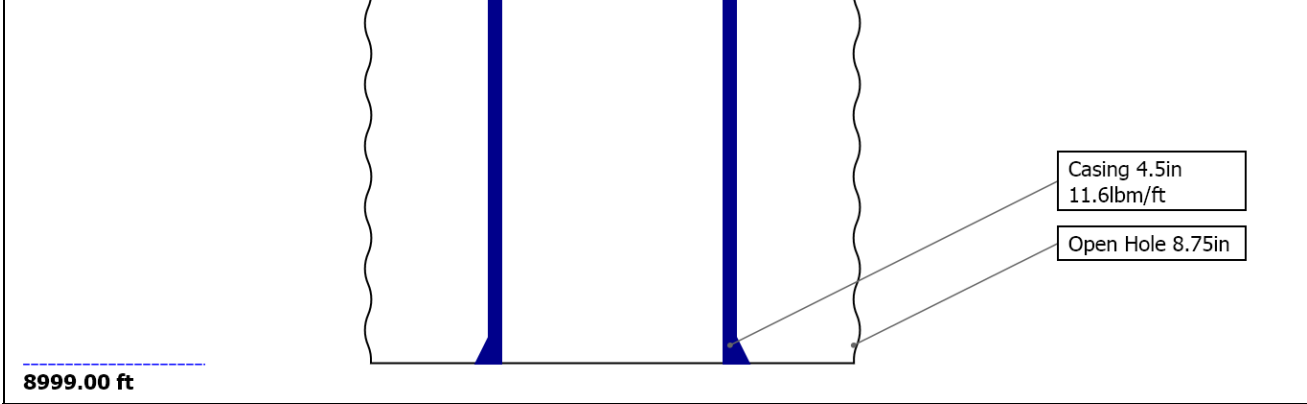
Contents

- 1. Header
- 2. Disclaimer
- 3. Contents
- 4. Well Sketch
- 5. Borehole Size/Casing/Tubing Record
- 6. Operational Run Summary
- 7. Remarks and Equipment Summary
- 8. Depth Summary
- 9. ONE
  - 9.1 Integration Summary
  - 9.2 Software Version
  - 9.3 Composite Summary
  - 9.4 Log ( RST SIGMA Answer )
  - 9.5 Parameter Listing
- 10. ONE
  - 10.1 Composite Summary
  - 10.2 Log ( RST SIGMA Answer RA )

- 11. Calibration Report
- 12. Tail

Well Sketch





Borehole Size/Casing/Tubing Record

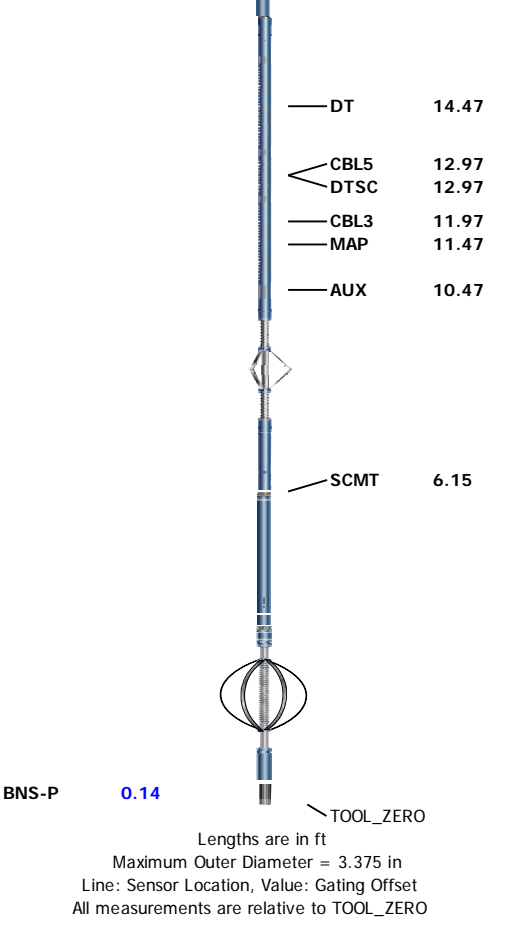
Bit						
Bit Size ( in )	14.75	8.75				
Top Driller ( ft )	0	2537				
Top Logger ( ft )	0	2537				
Bottom Driller ( ft )	2537	8999				
Bottom Logger ( ft )	2537	8999				
Casing						
Size ( in )	9.625	4.5				
Weight ( lbm/ft )	36	11.6				
Inner Diameter ( in )	8.921	4				
Grade	J55	P110				
Top Driller ( ft )	0	0				
Top Logger ( ft )	0	0				
Bottom Driller ( ft )	2537	8999				
Bottom Logger ( ft )	2537	8999				

Operational Run Summary

Parameter ( unit )	ONE					
Date Log Started	24-Jul-2015					
Time Log Started	15:00:38					
Date Log Finished	24-Jul-2015					
Time Log Finished	20:42:40					
Top Log Interval ( ft )	2500.00					
Bottom Log Interval ( ft )	8893.00					
Total Depth ( ft )	8999.00					
Max Hole Deviation ( deg )	0.00					
Azimuth of Max Deviation ( deg )	0.00					
Bit Size ( in )	8.750					
Logging Unit Number	9108					
Logging Unit Location	Fort Morgan, CO					
Recorded By	B. Dobinsky / B. Marmon					

## Remarks and Equipment Summary

[illegible]



## Depth Summary

	ONE		
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### Depth Measuring Device

Type	IDW-JA		
Serial Number	6510		
Calibration Date	29-Mar-2015		
Calibrator Serial Number			
Calibration Cable Type	7-46 AXS		
Wheel Correction 1	-4		
Wheel Correction 2	-2		

### Tension Device

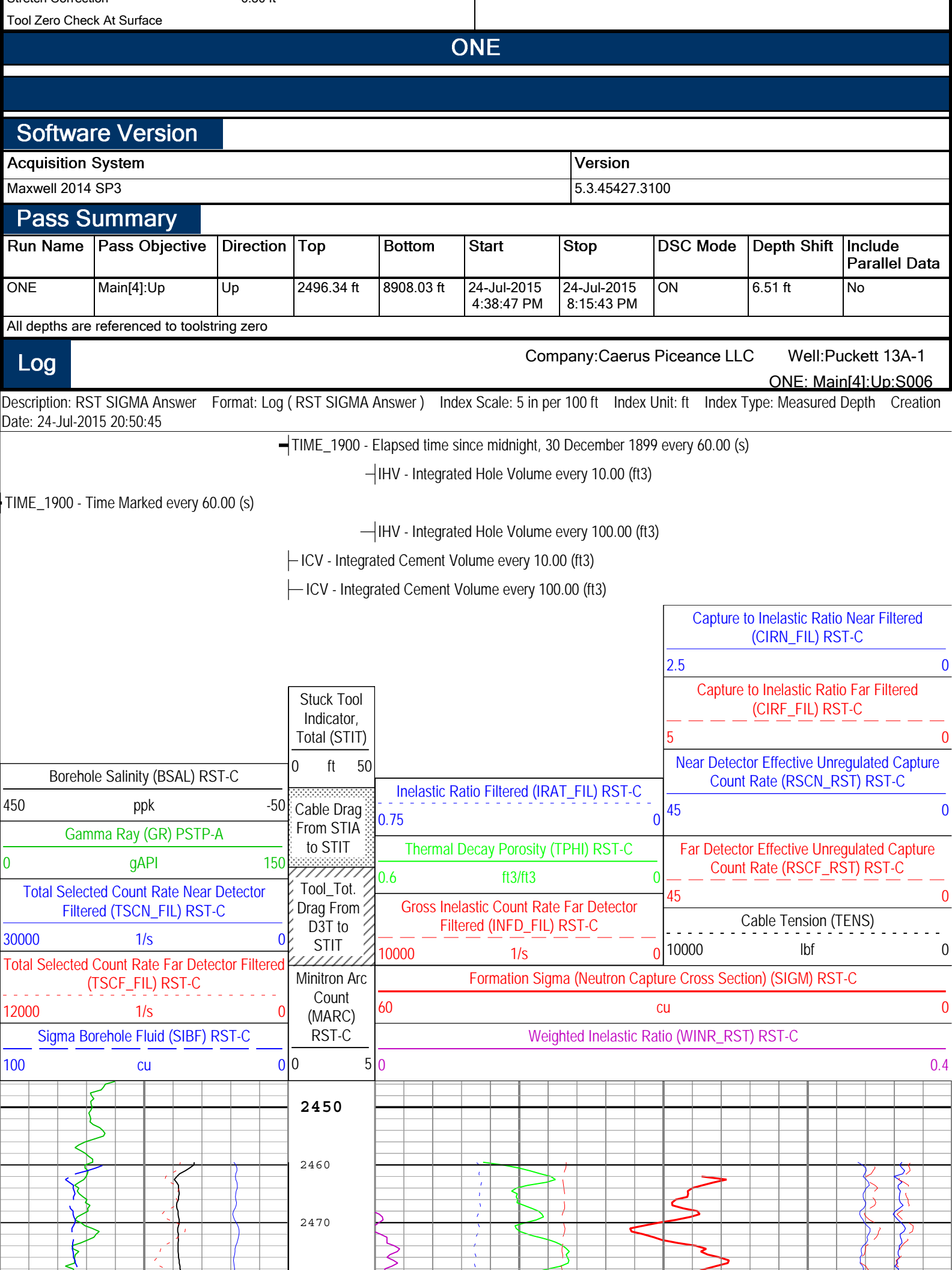
Type	CMTD-B/A		
Serial Number	171		
Calibration Date	26-JUN-2015		
Calibrator Serial Number	123		
Number of Calibration Points	10		
Calibration Root Mean Square Error	13		
Calibration Peak Error	31		

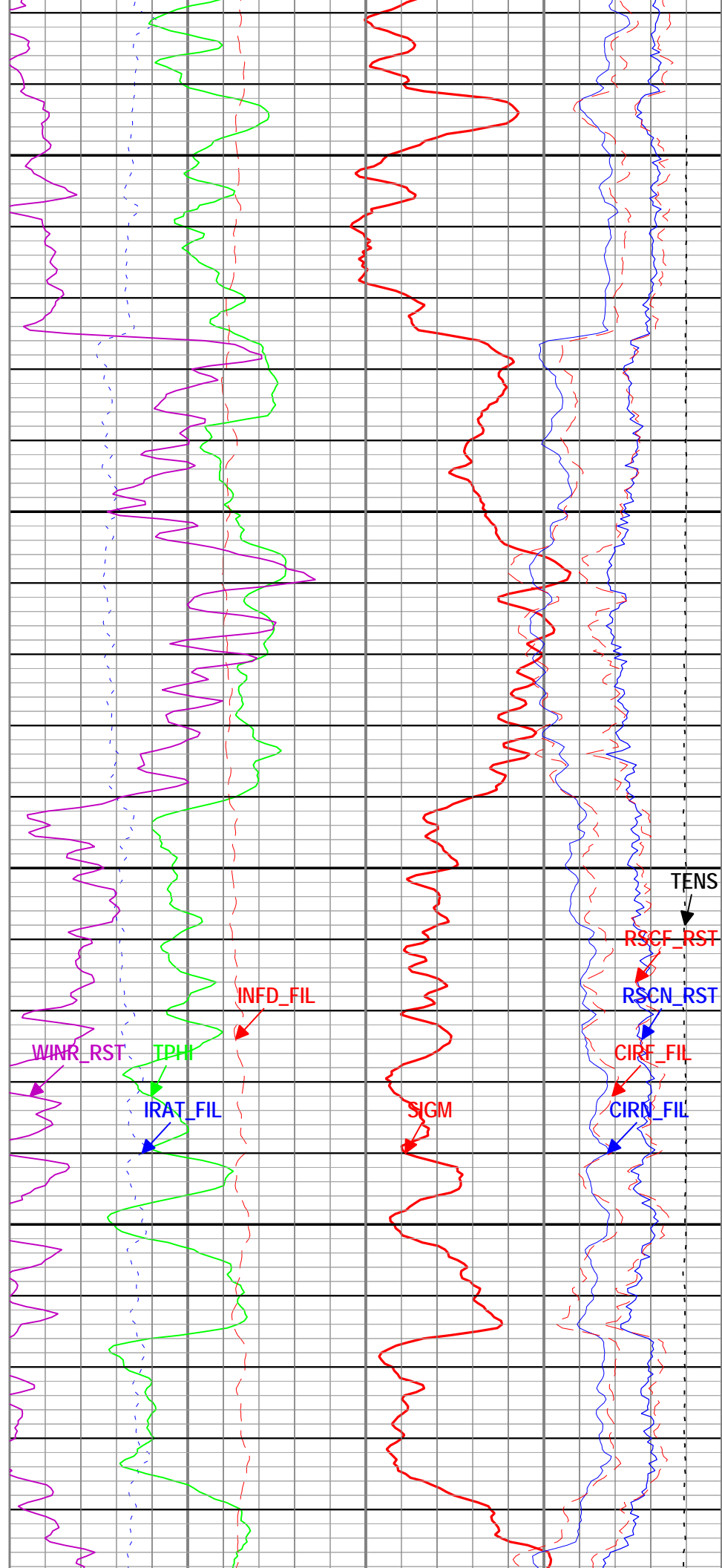
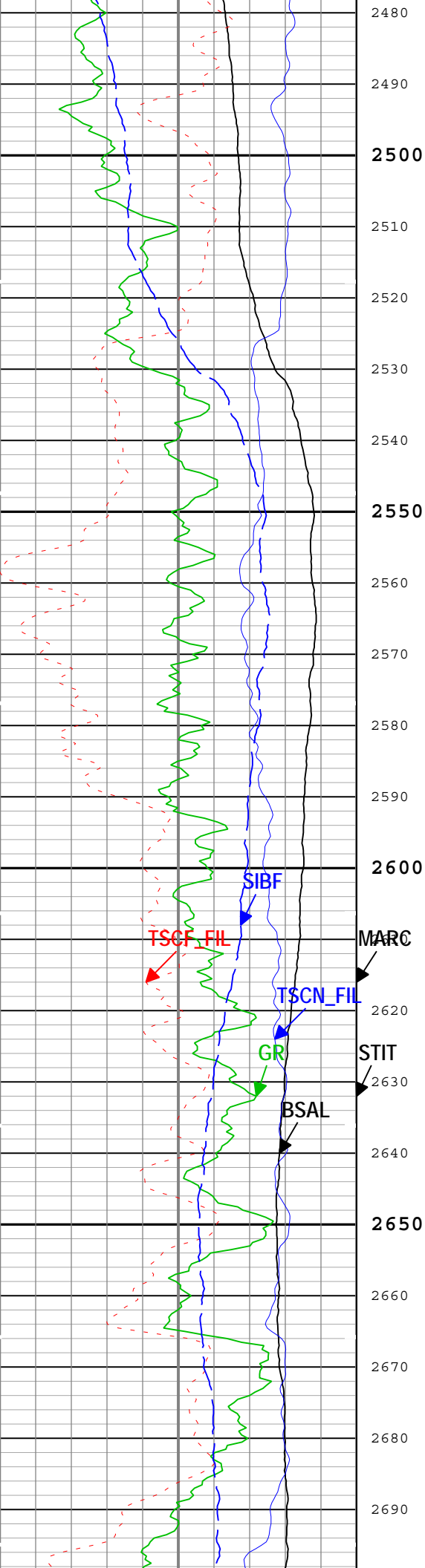
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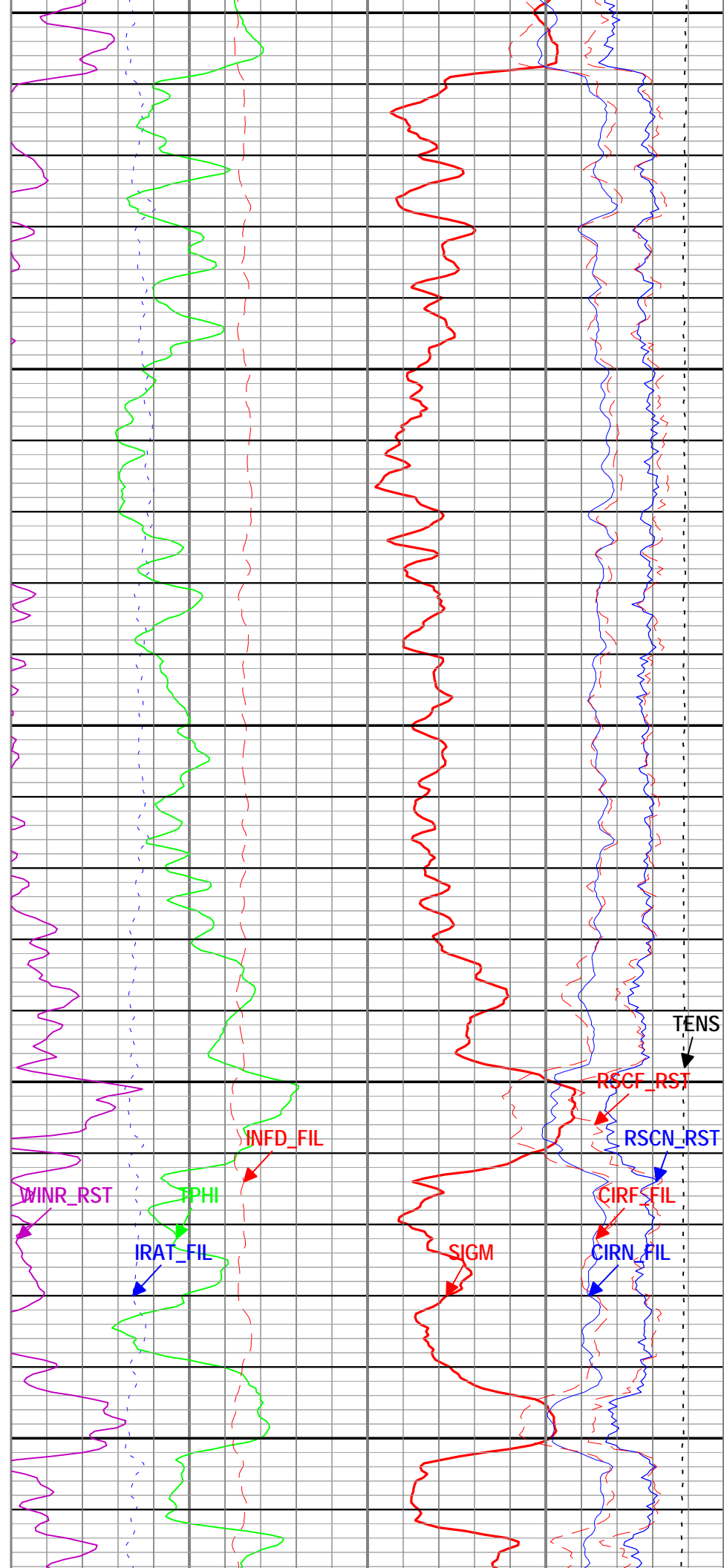
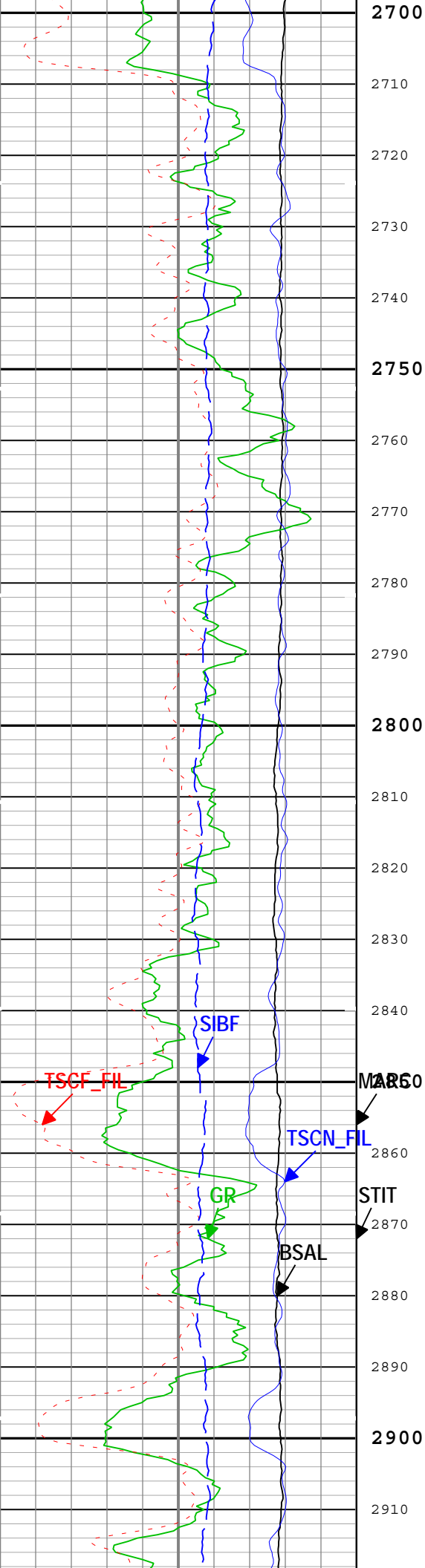
Type	7-46A-XS		
Serial Number	U714071		
Length	17500.00 ft		
Conveyance Type	Wireline		
Rig Type			

### ONE:Depth Control Parameters

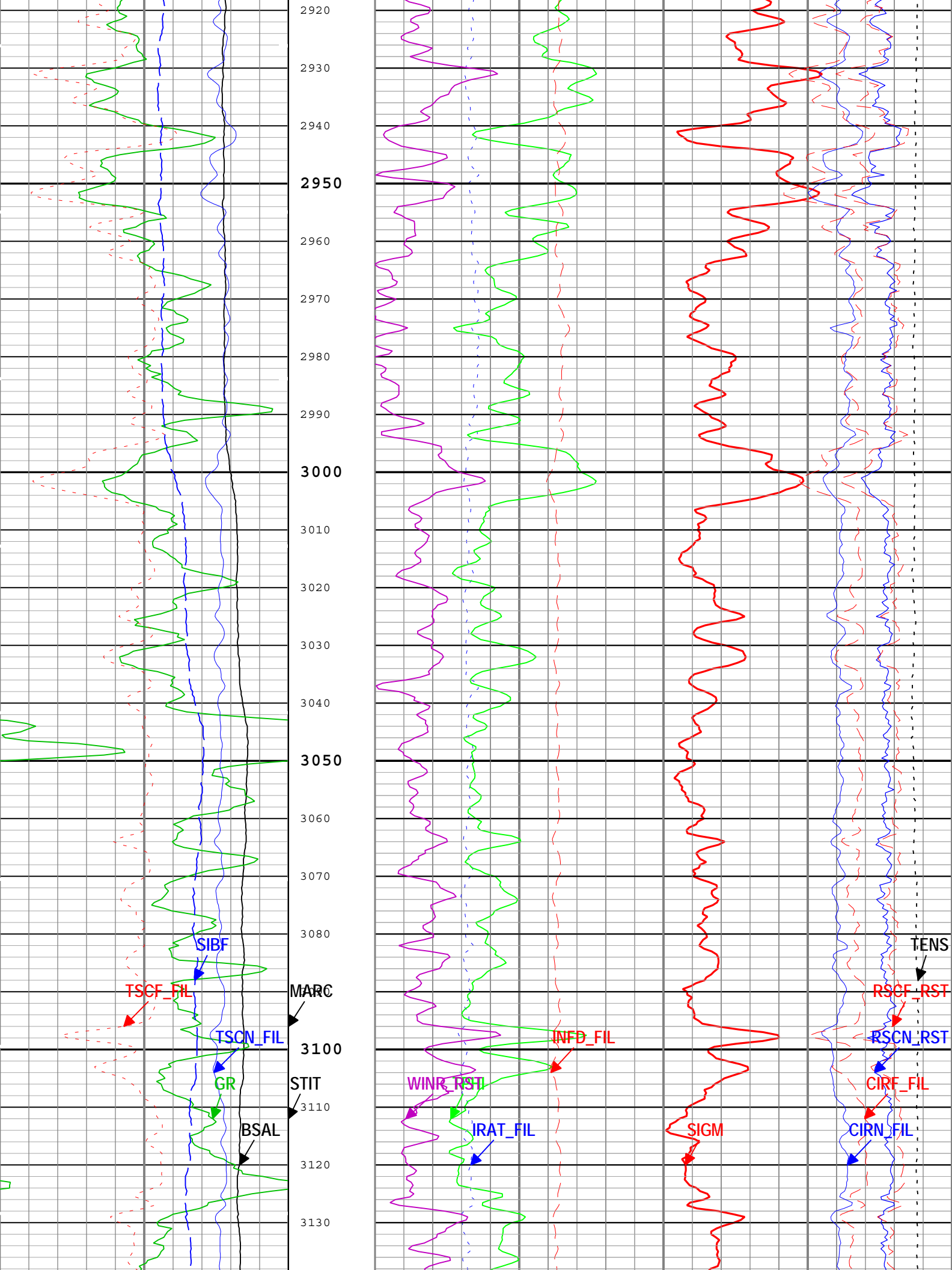
Log Sequence	First Log In the Well	Depth Control Remarks
Rig Up Length At Surface		All Schlumberger Depth Policies Followed
Rig Up Length At Bottom		IDW used as primary Depth Control
Rig Up Length Correction		
Stretch Correction	6 50 ft	

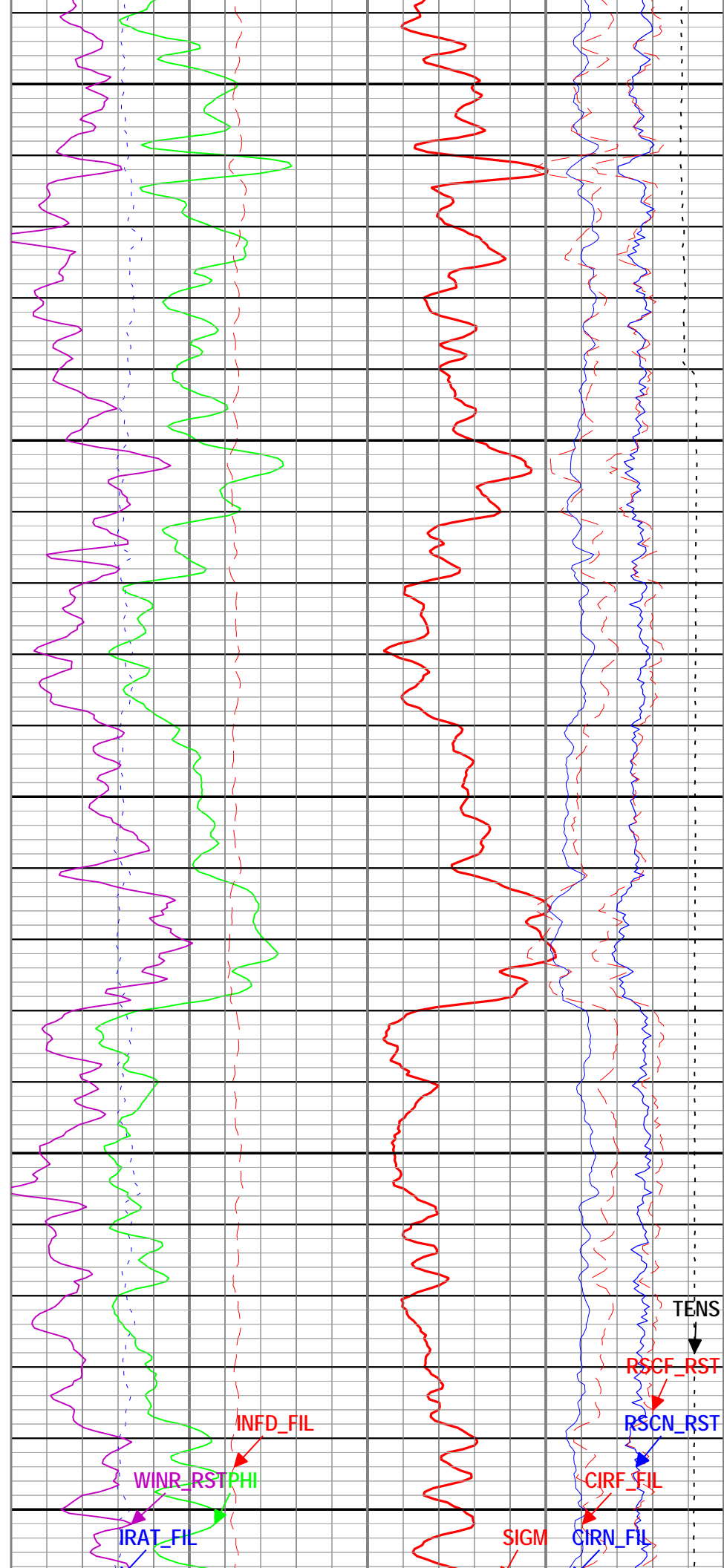
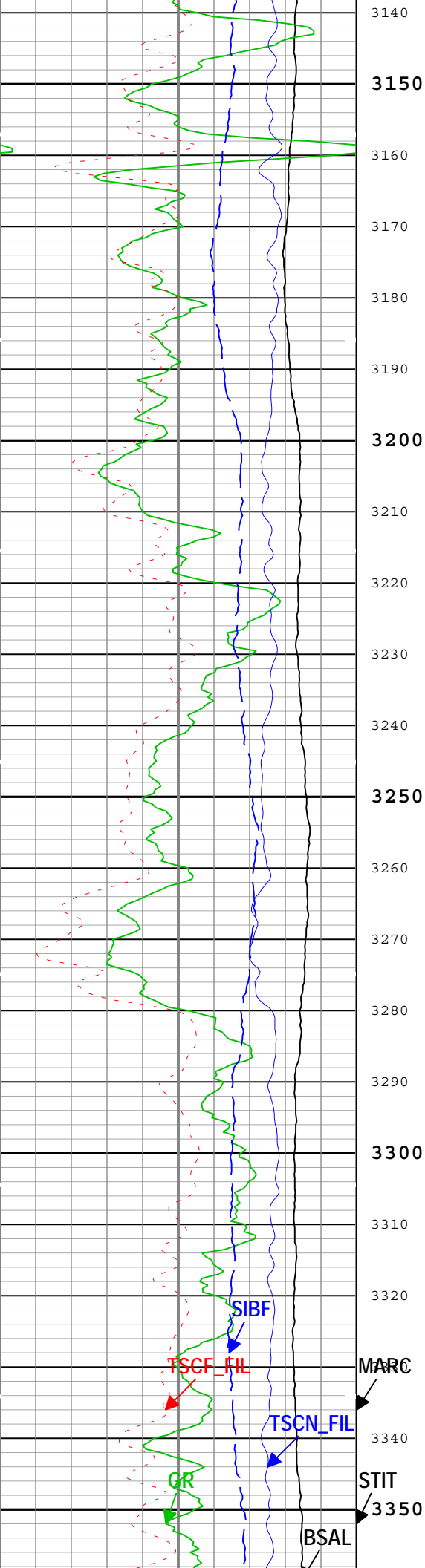


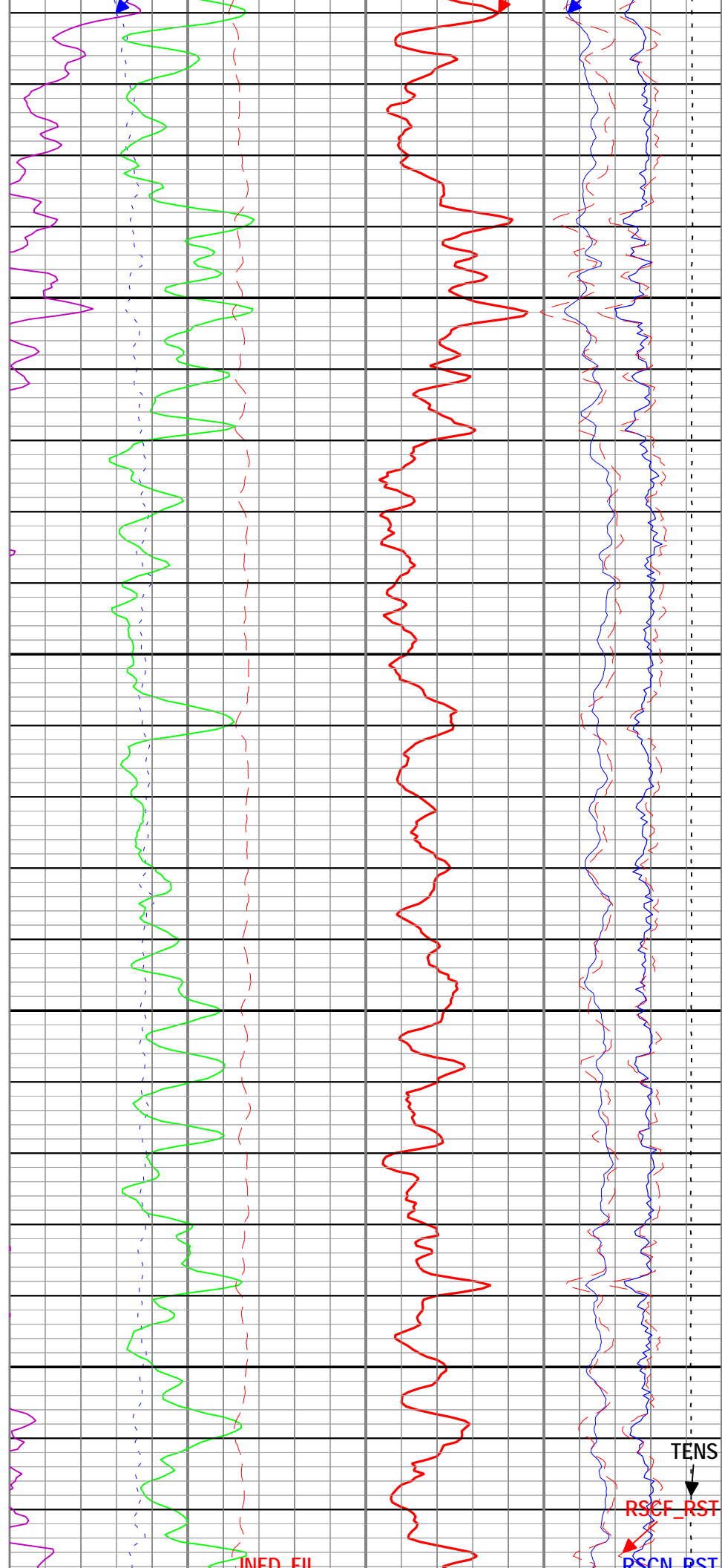
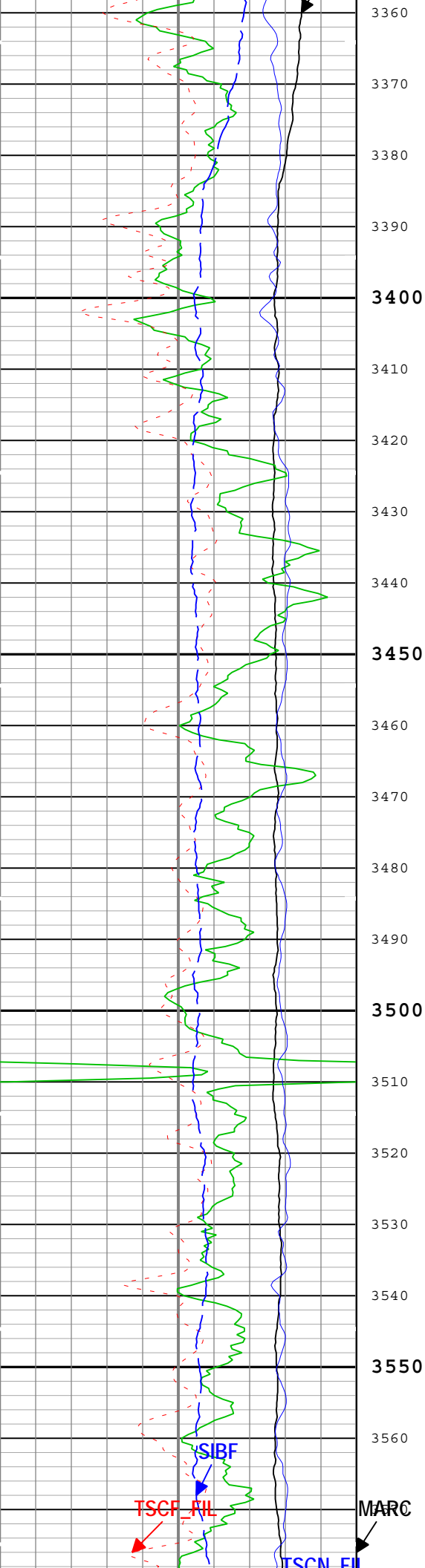


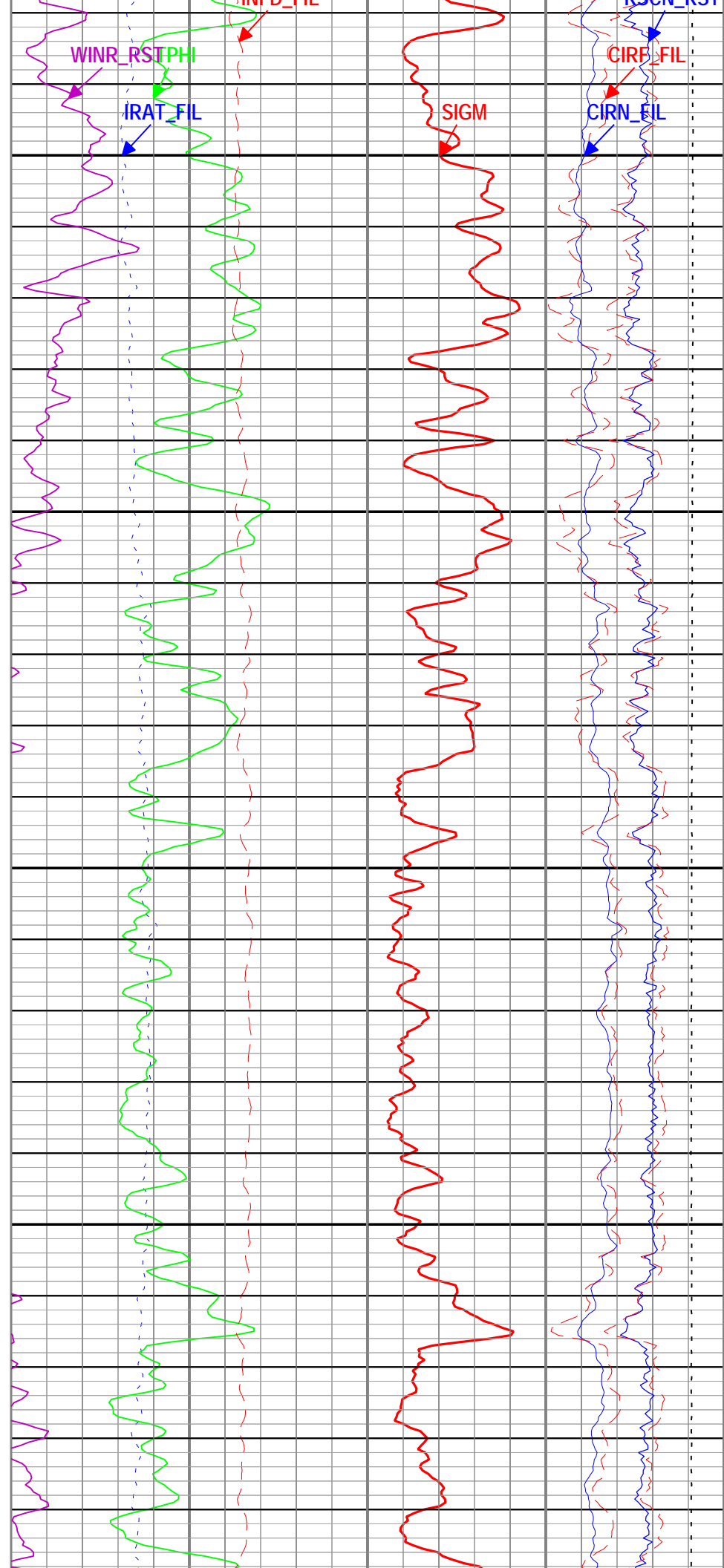
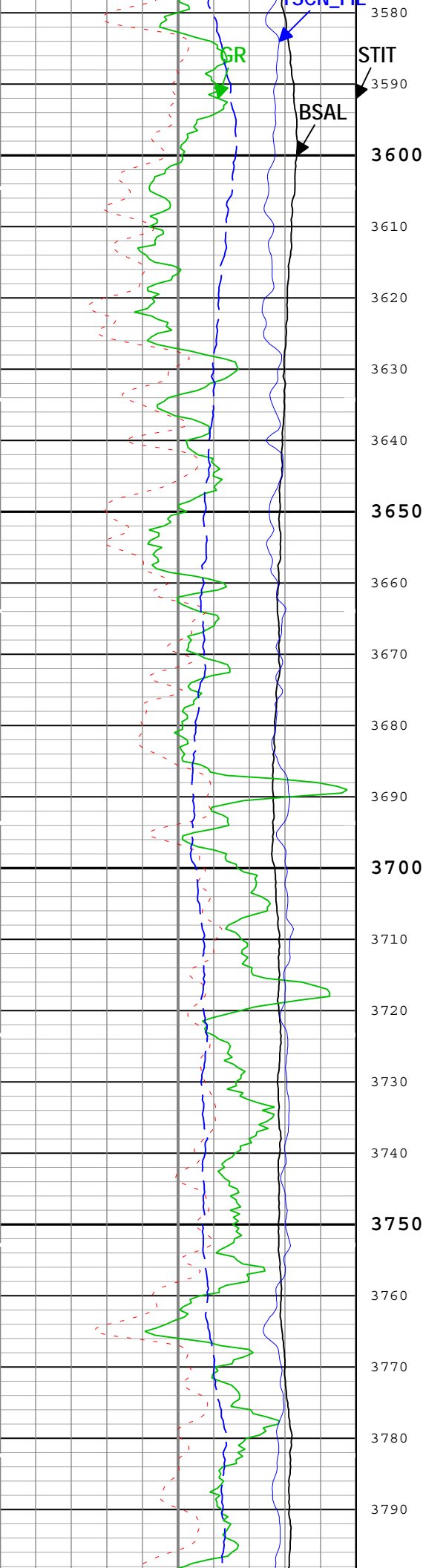


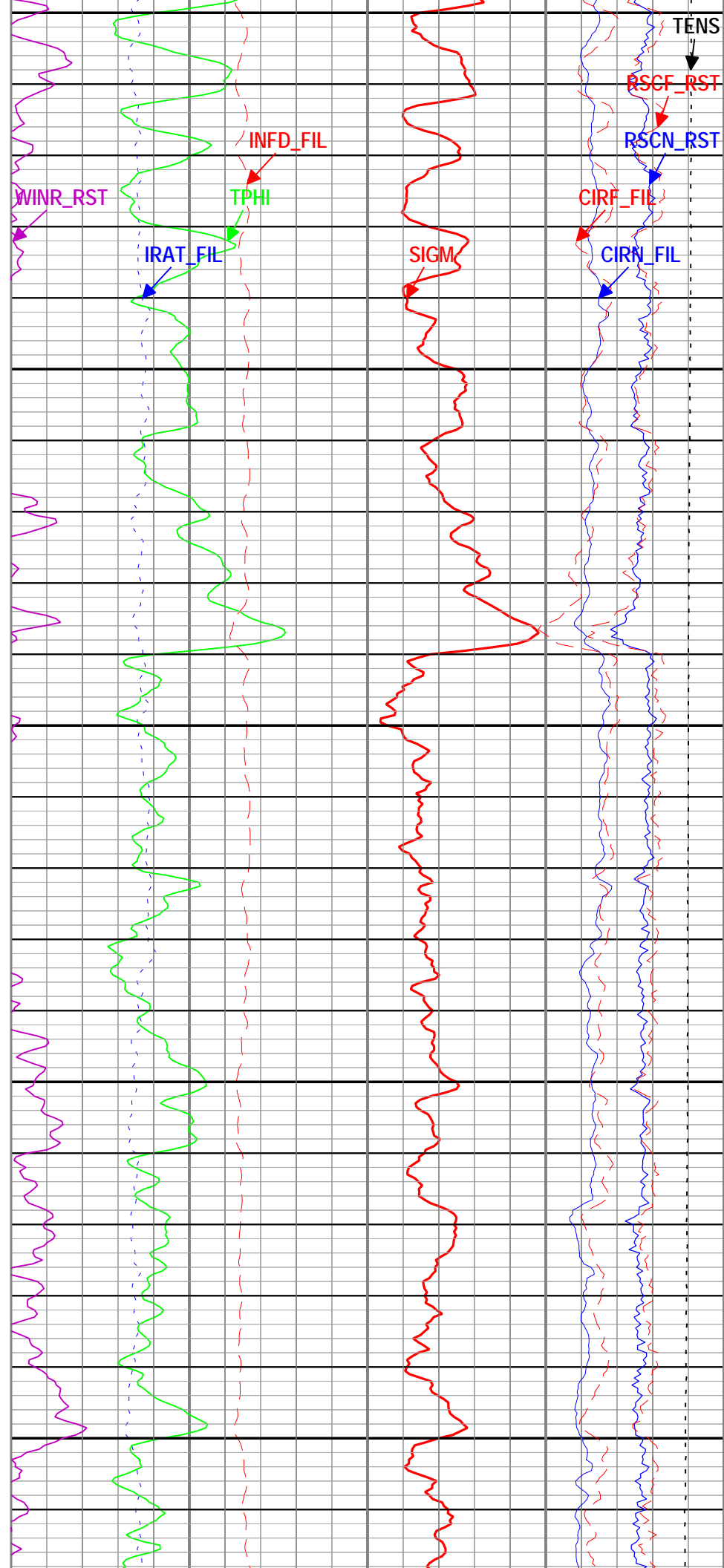
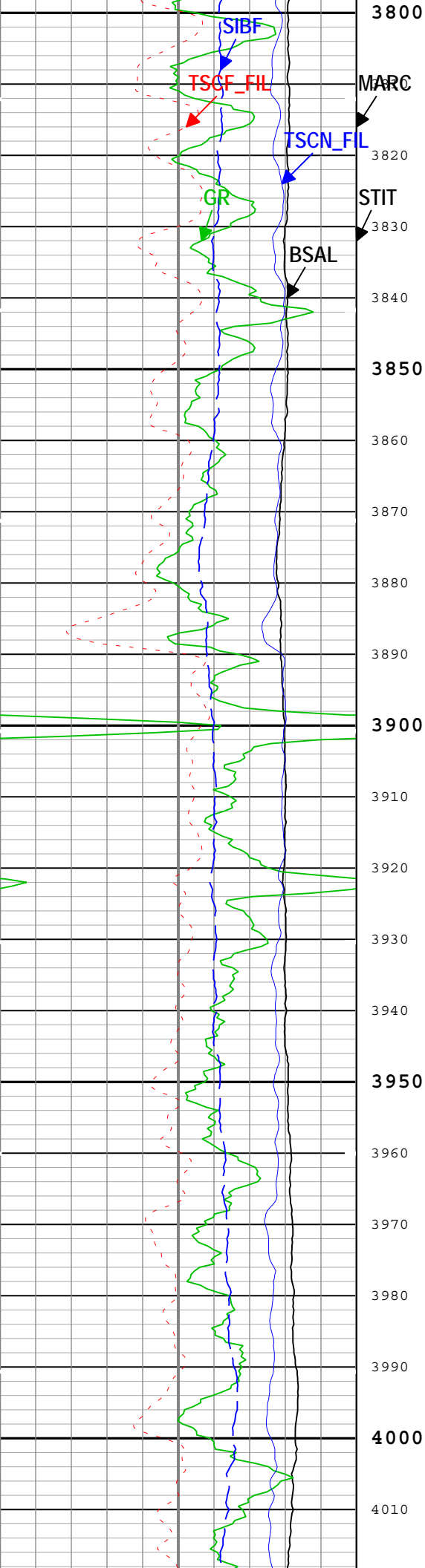


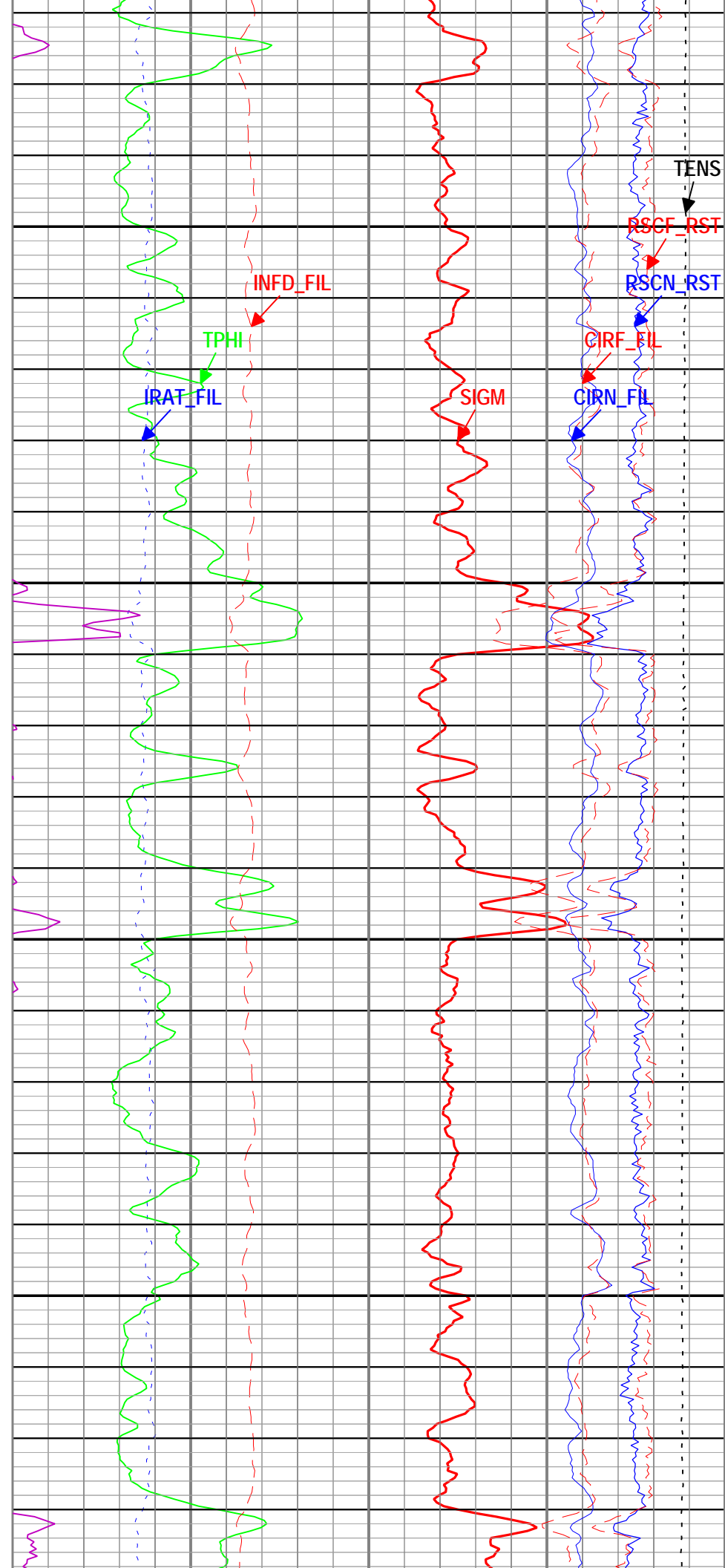
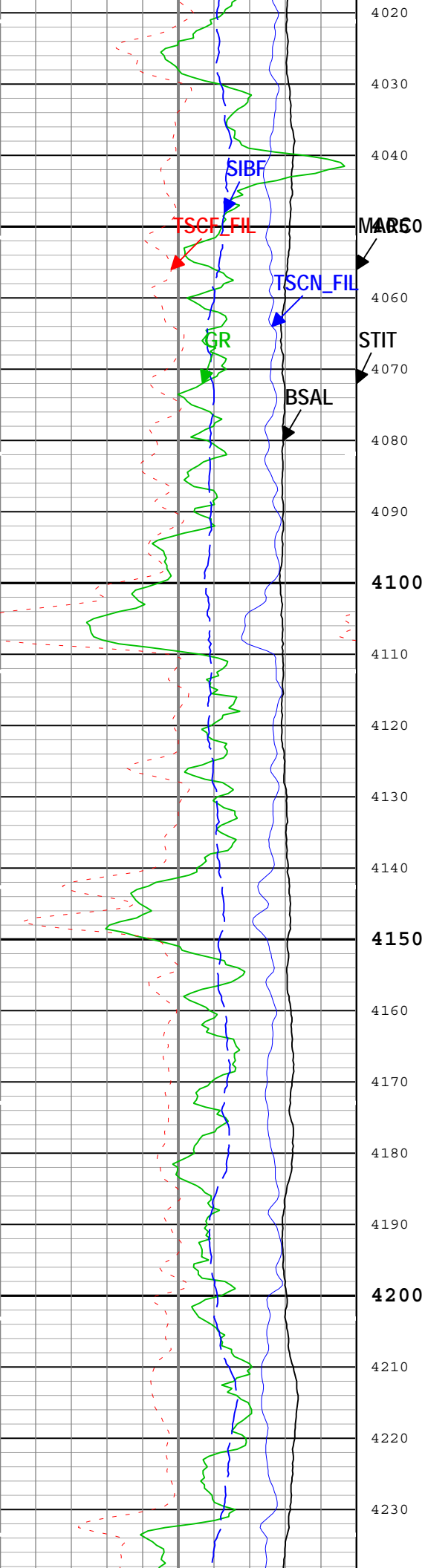


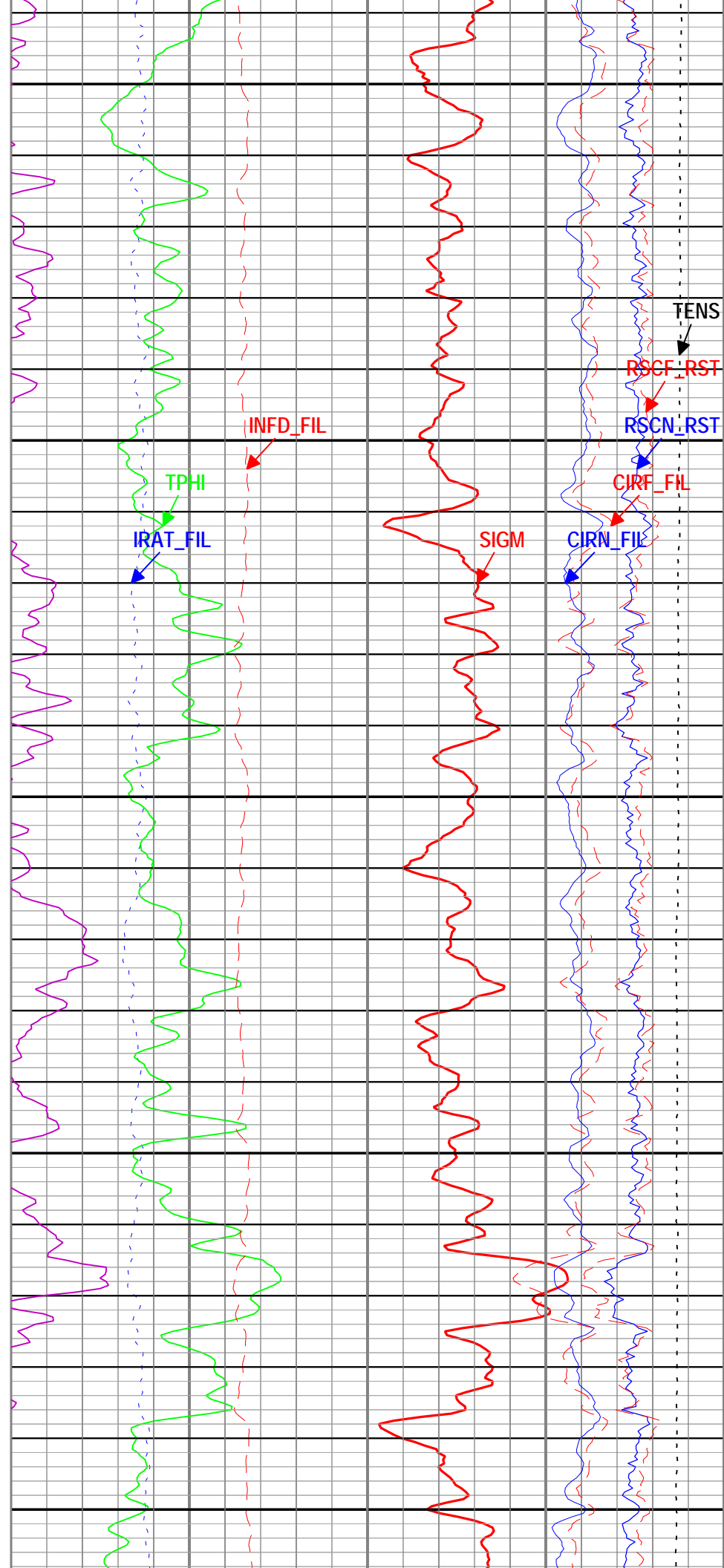
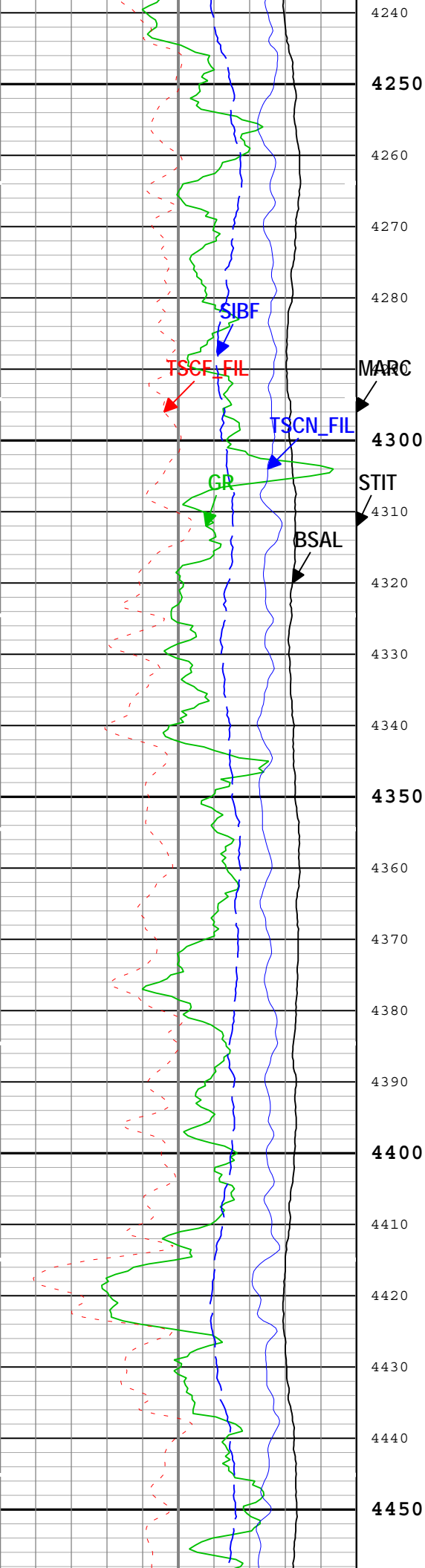


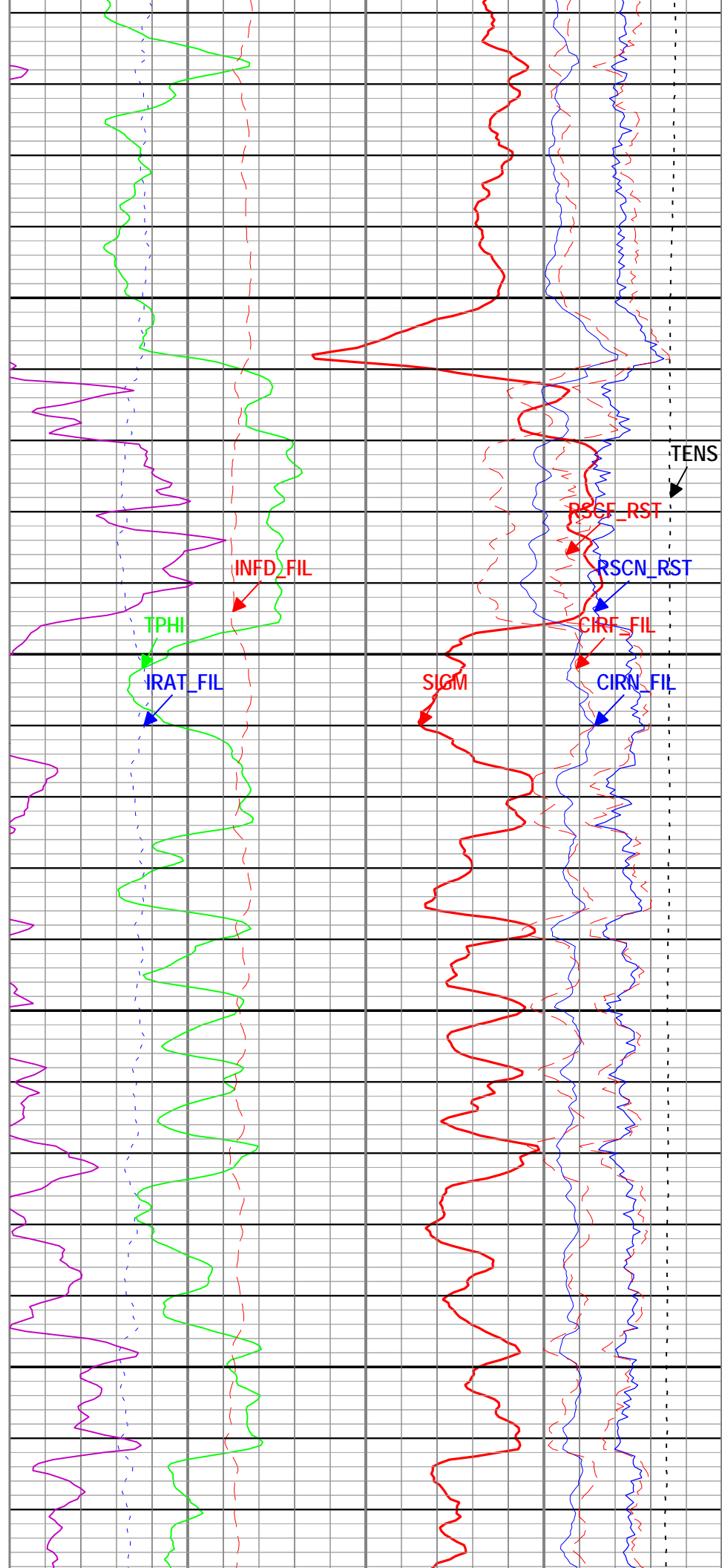
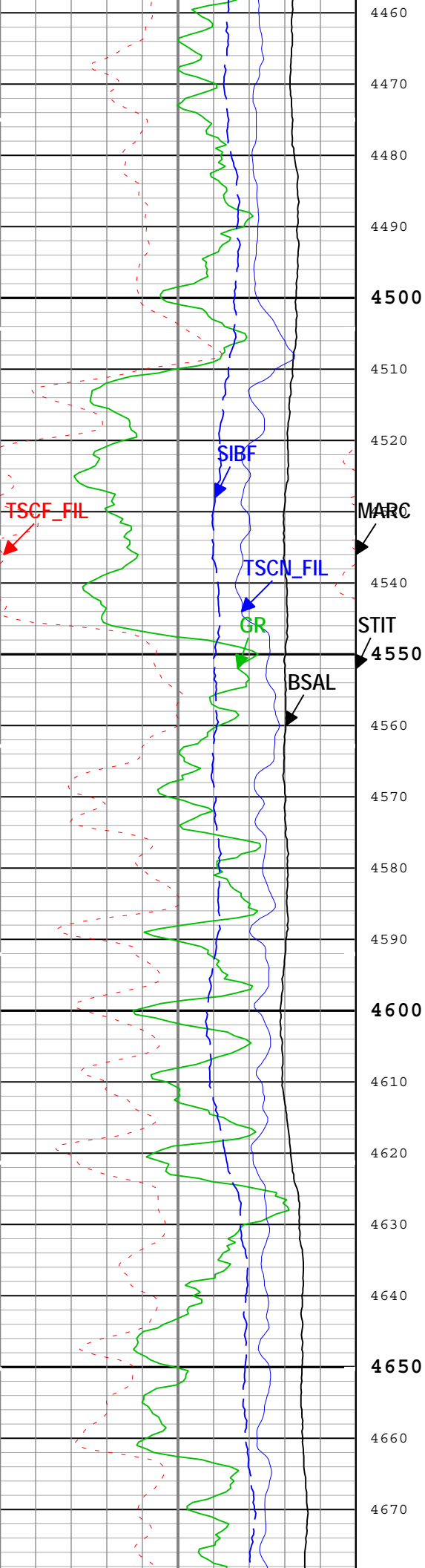




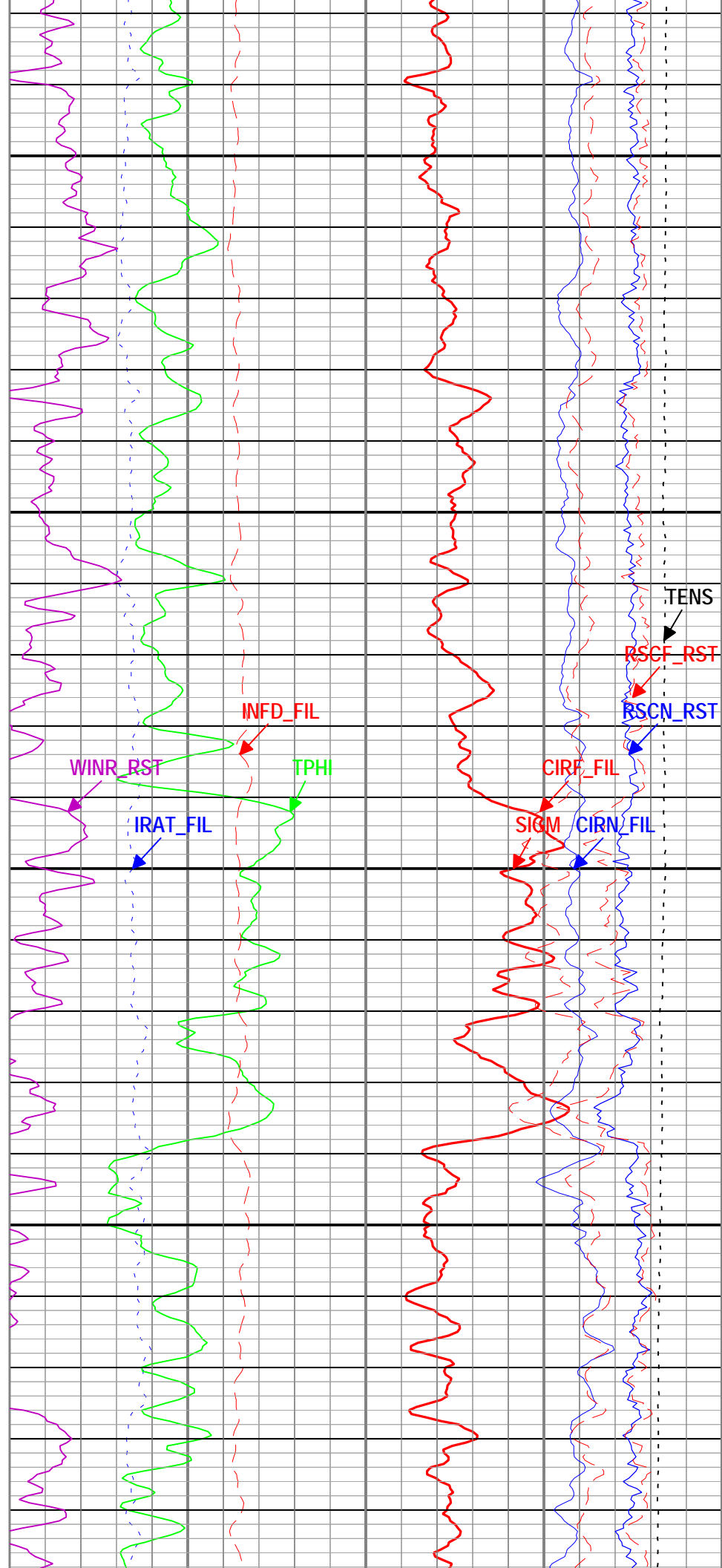
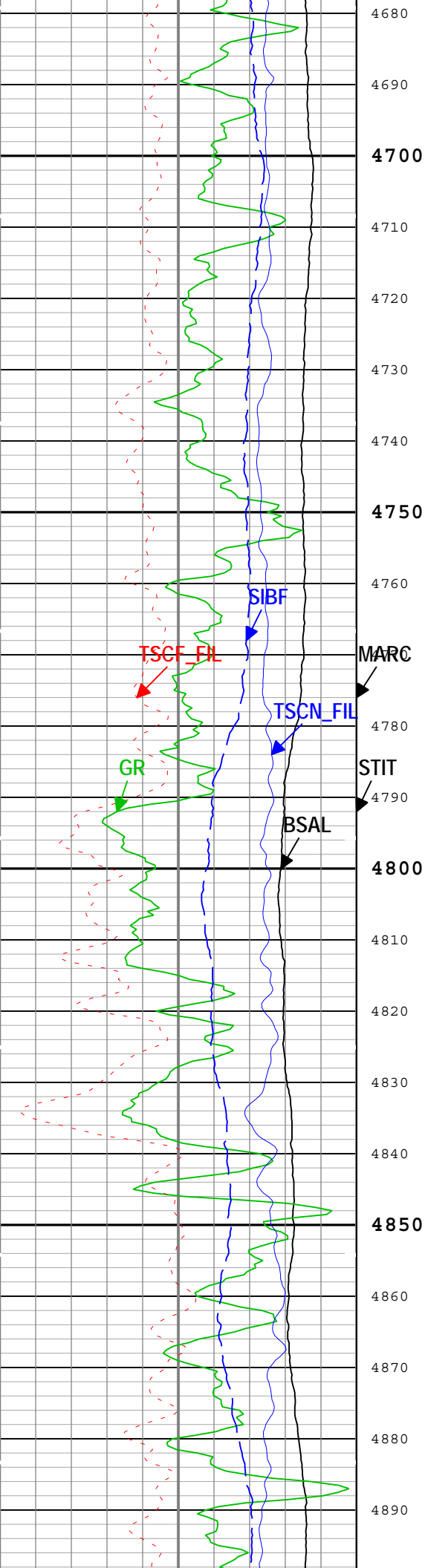


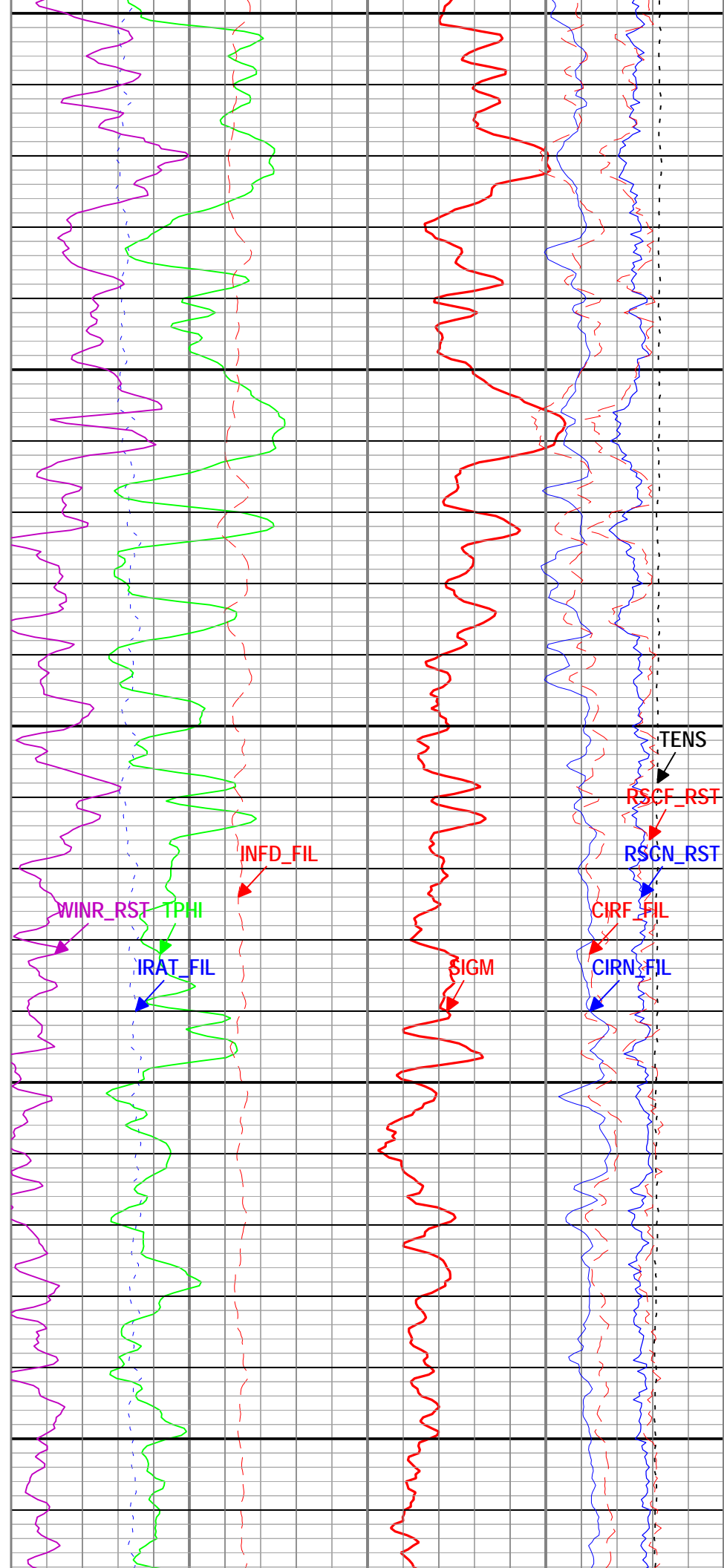
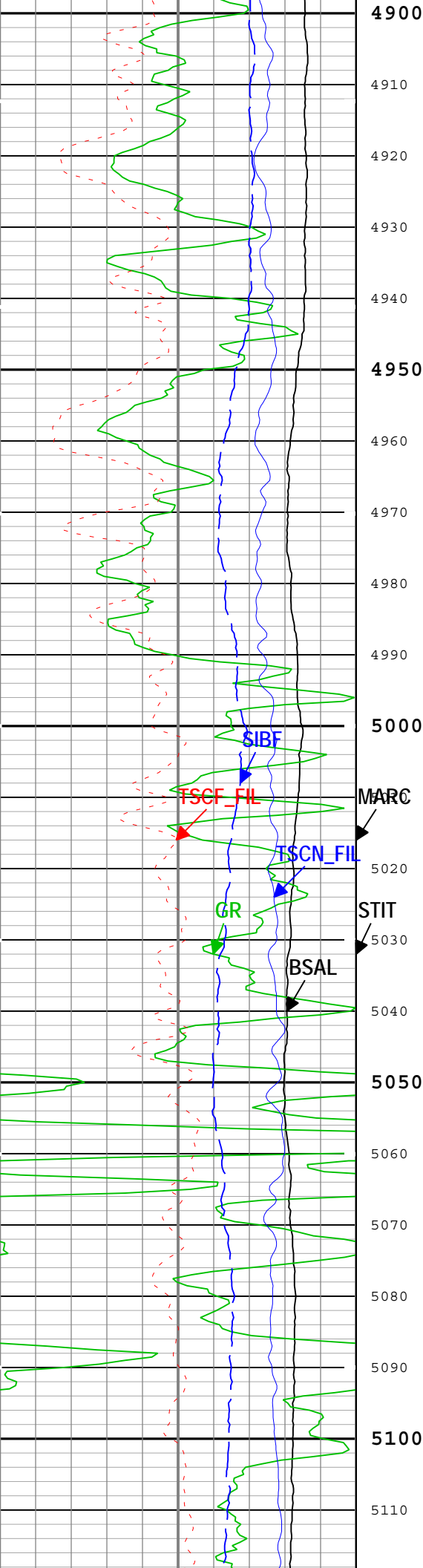


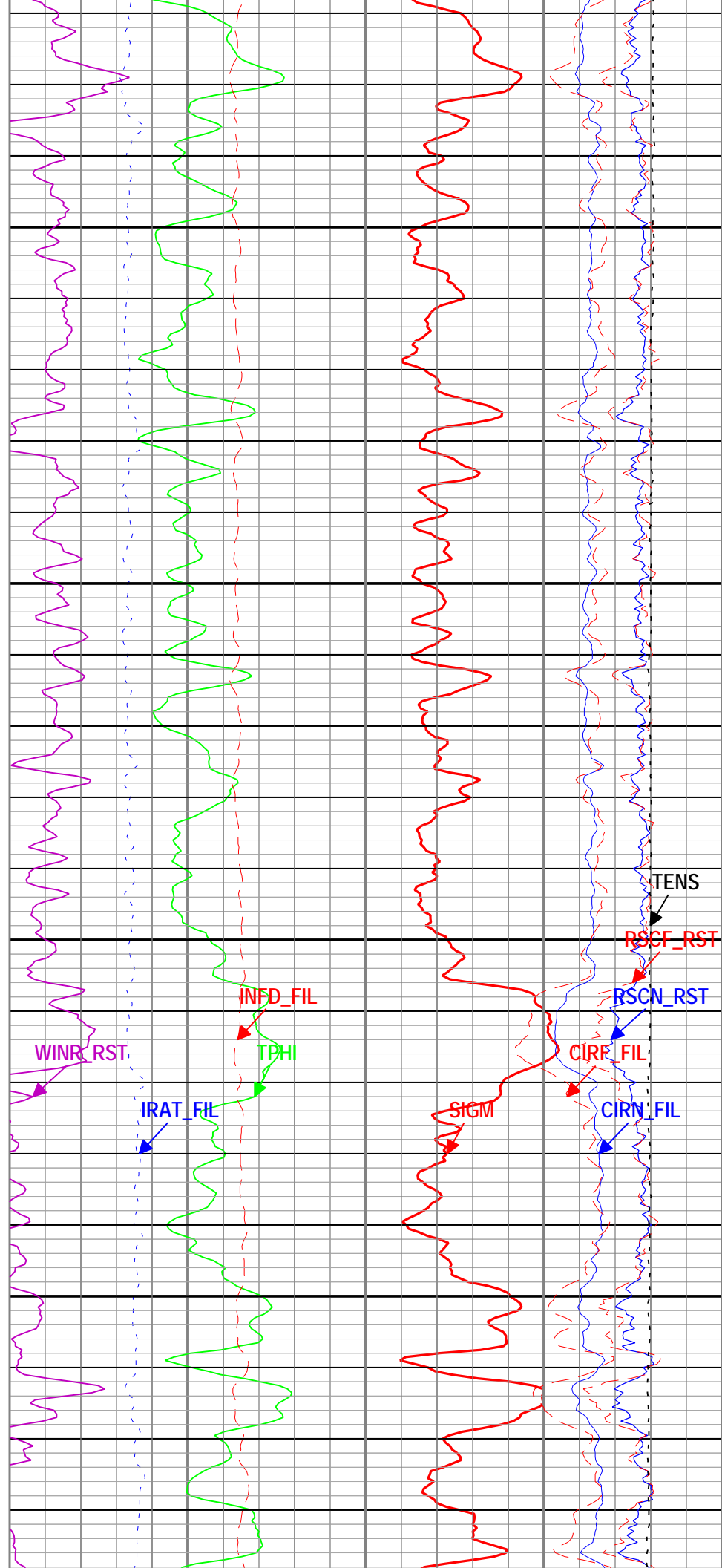
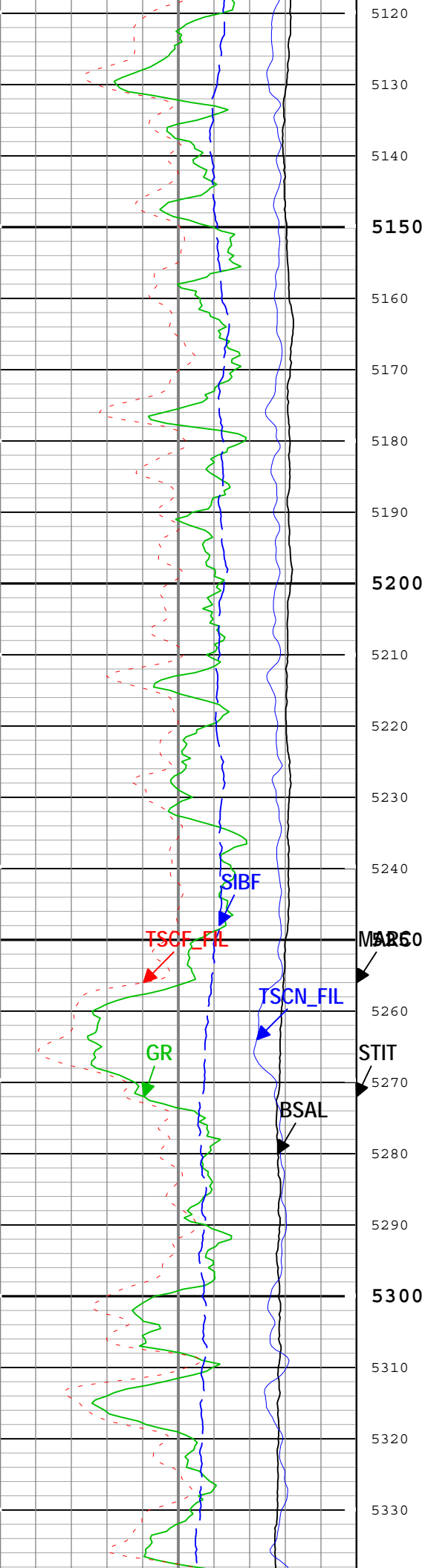


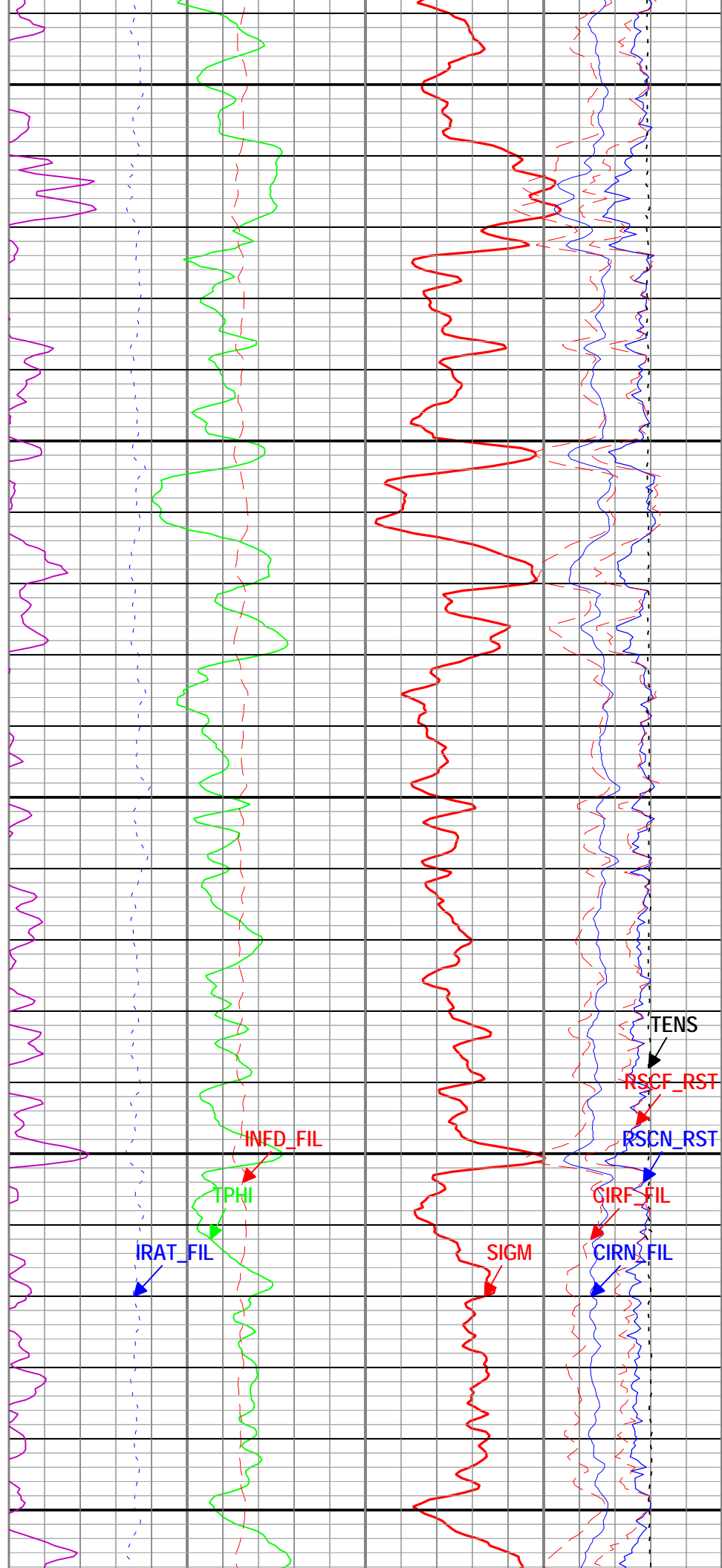
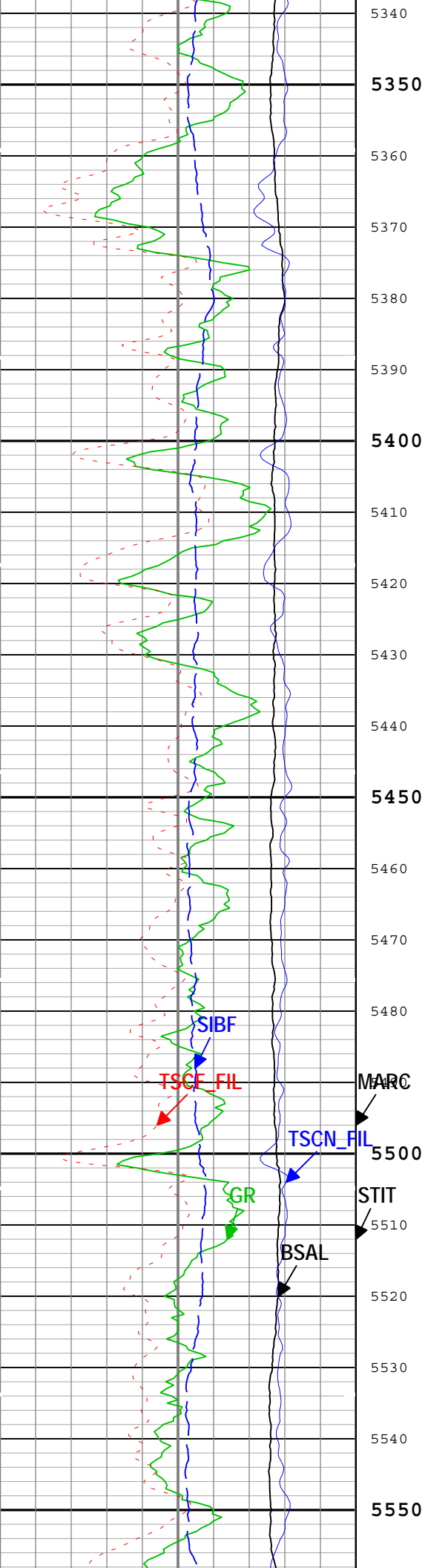


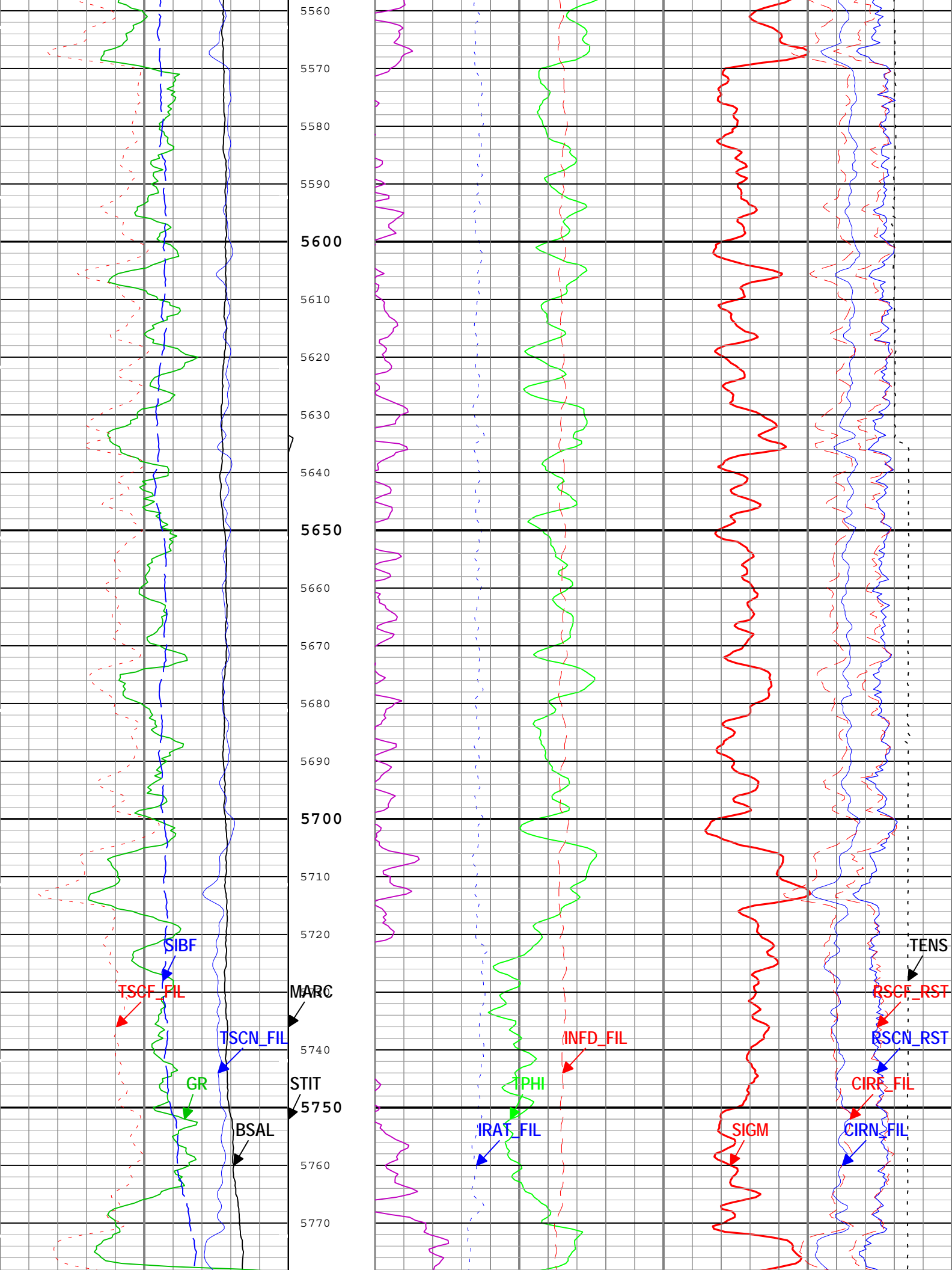


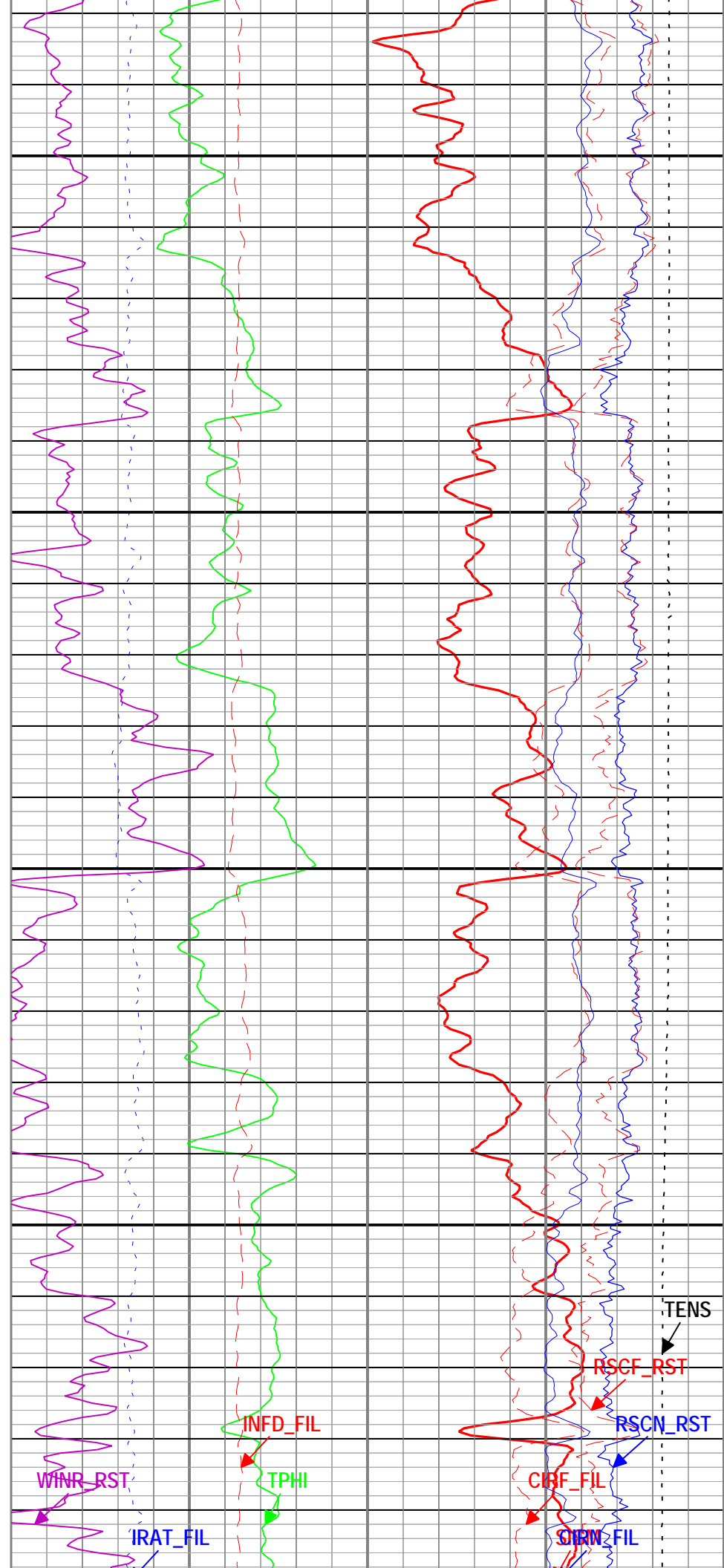
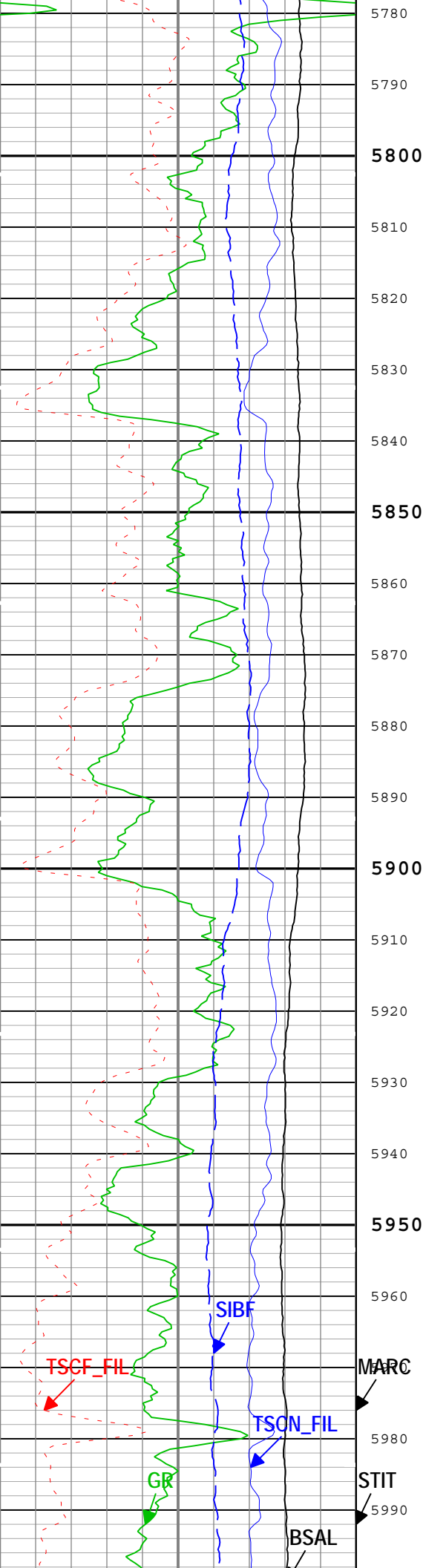


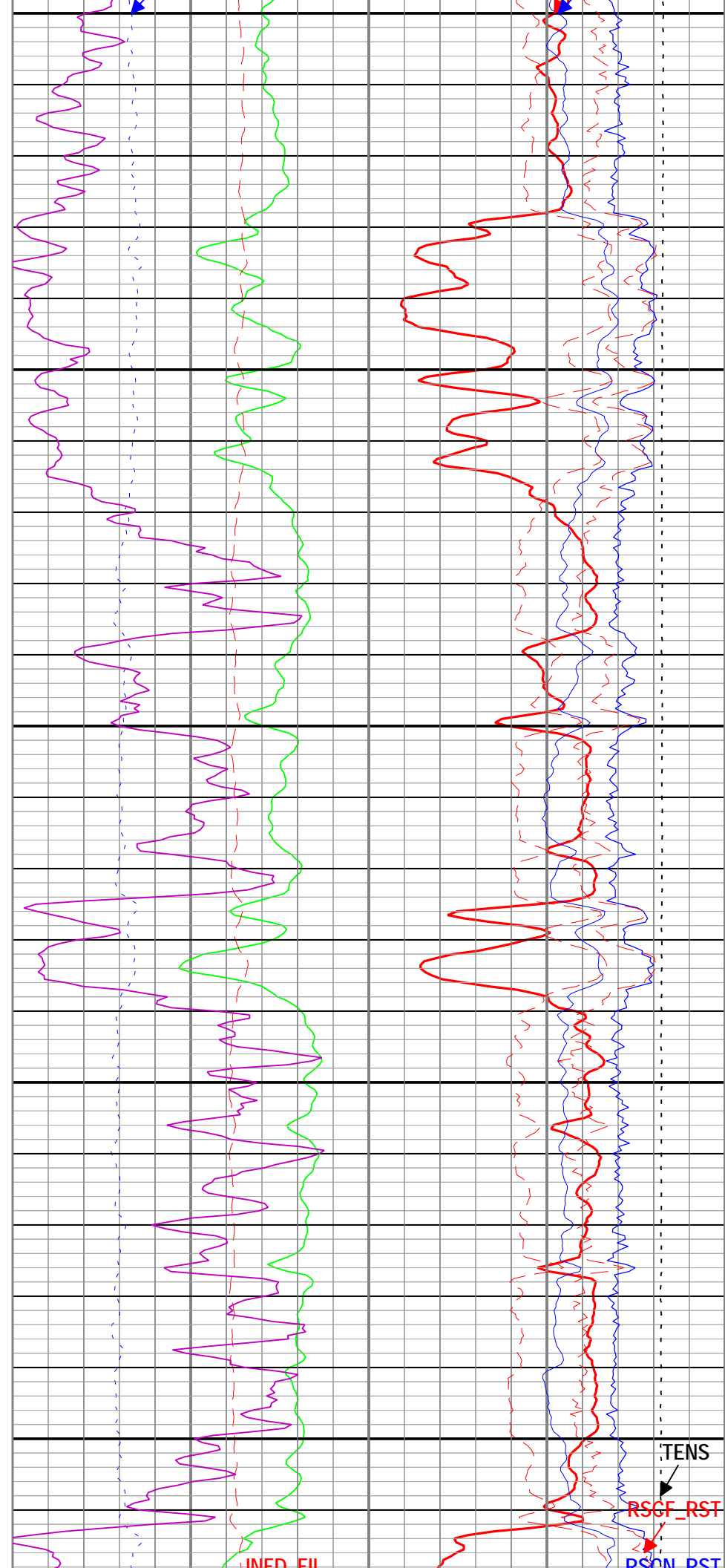
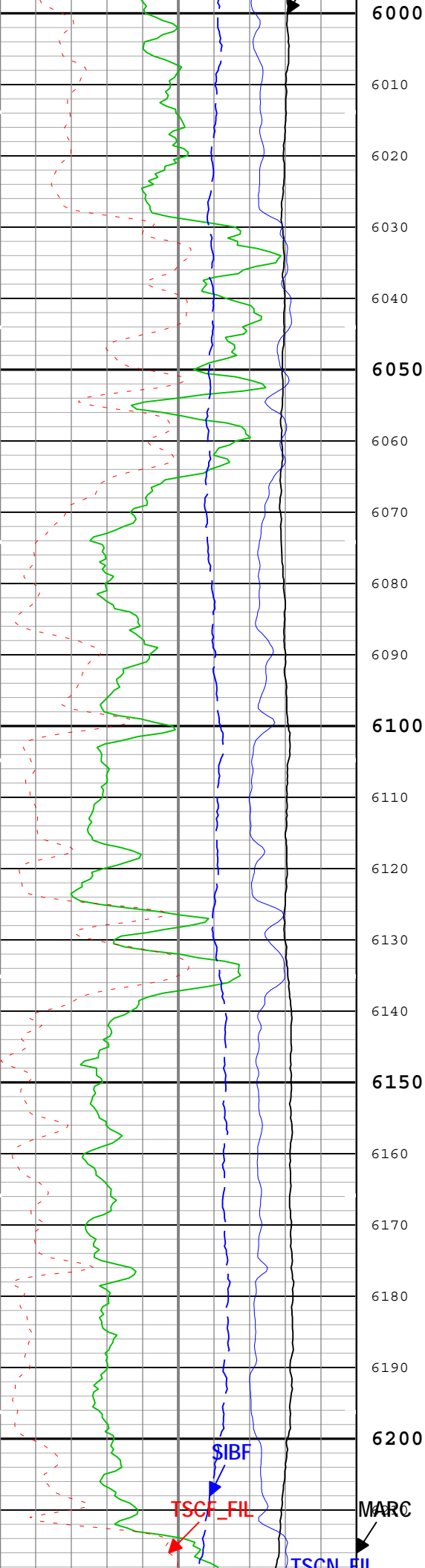




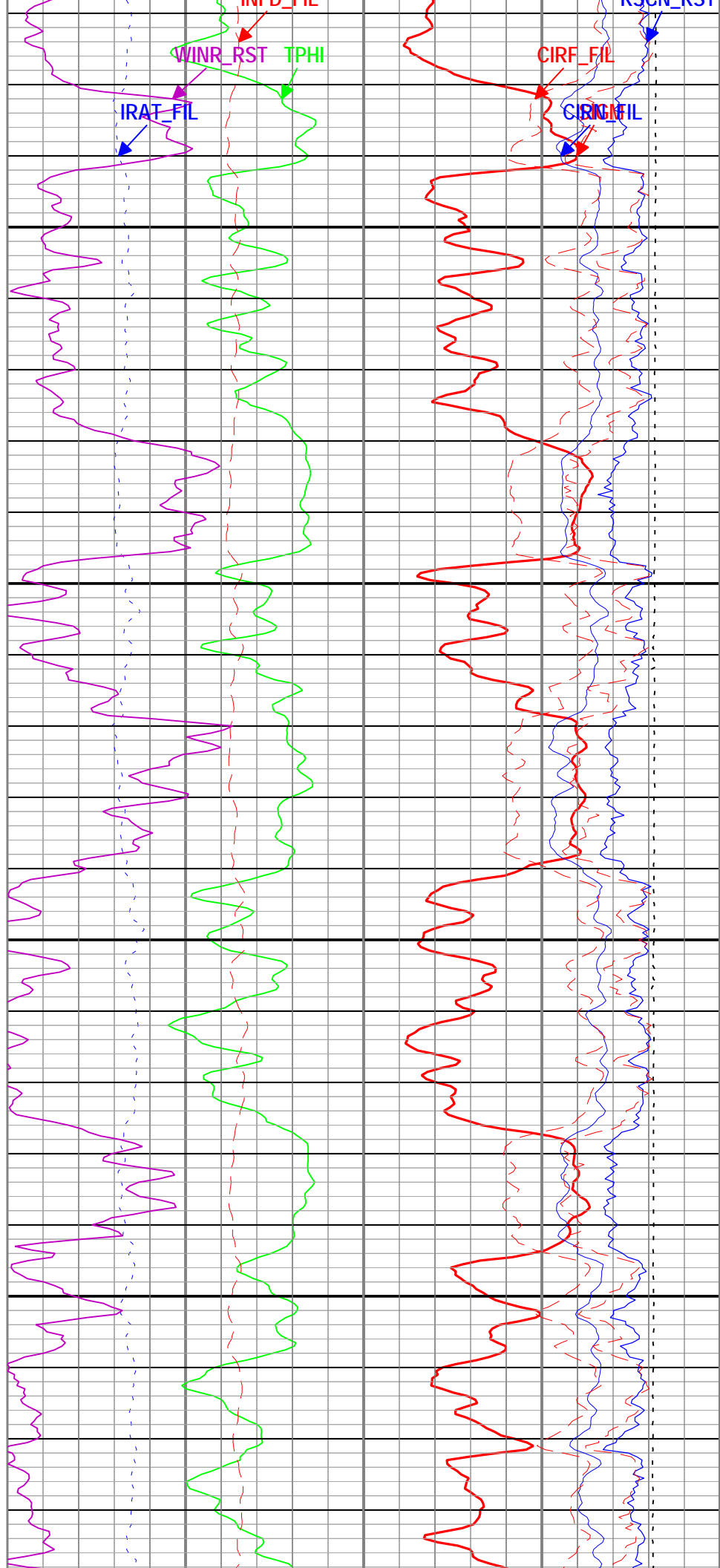
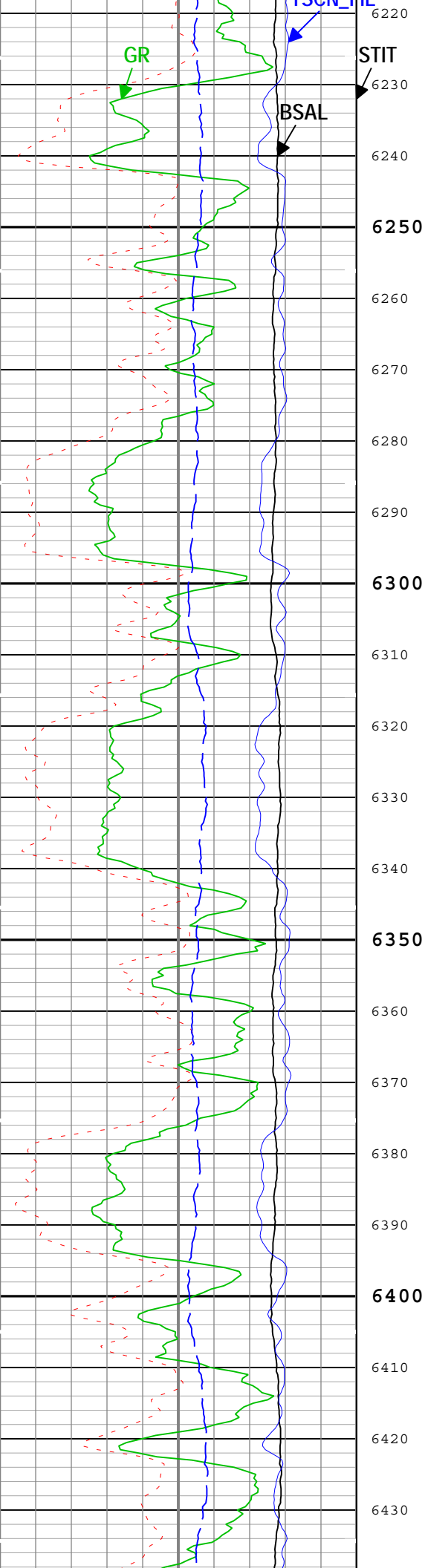




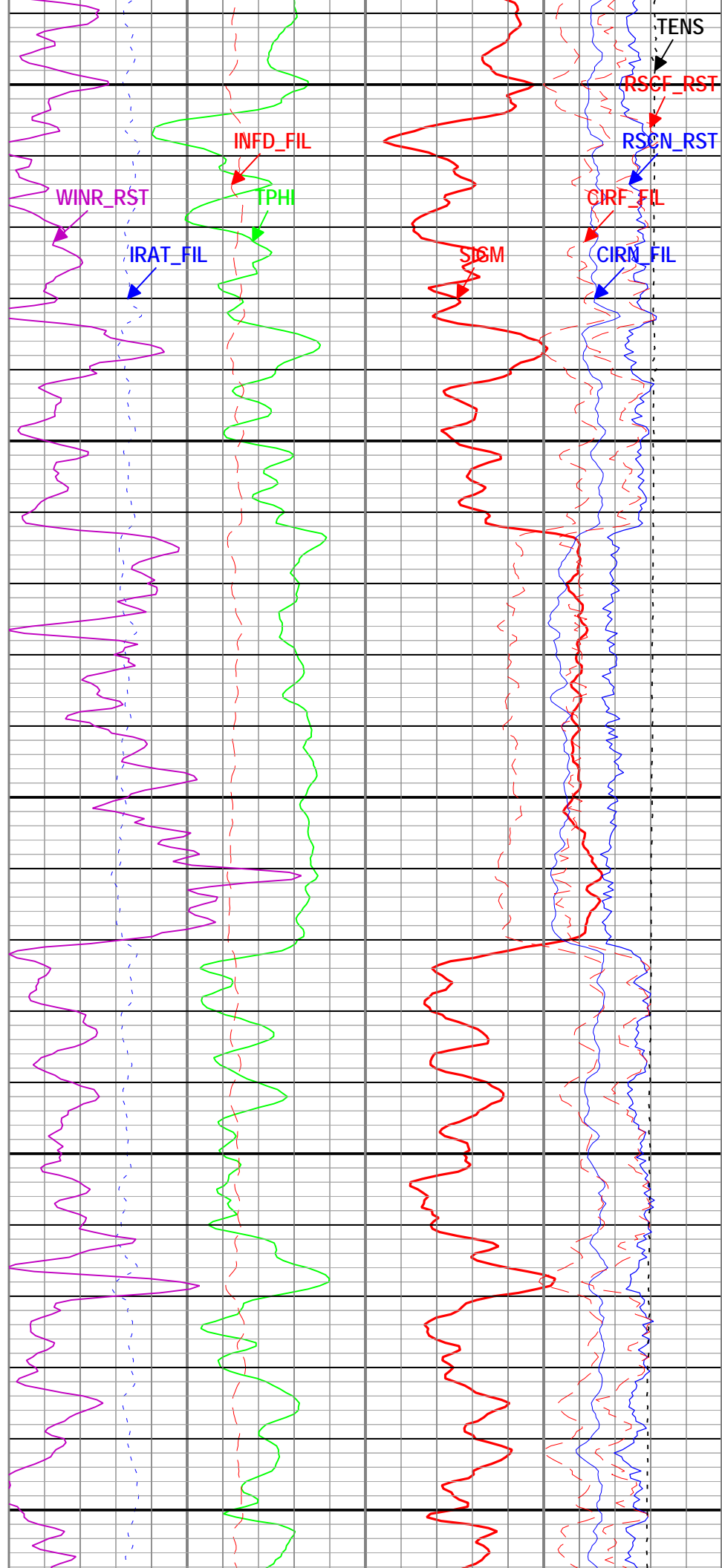
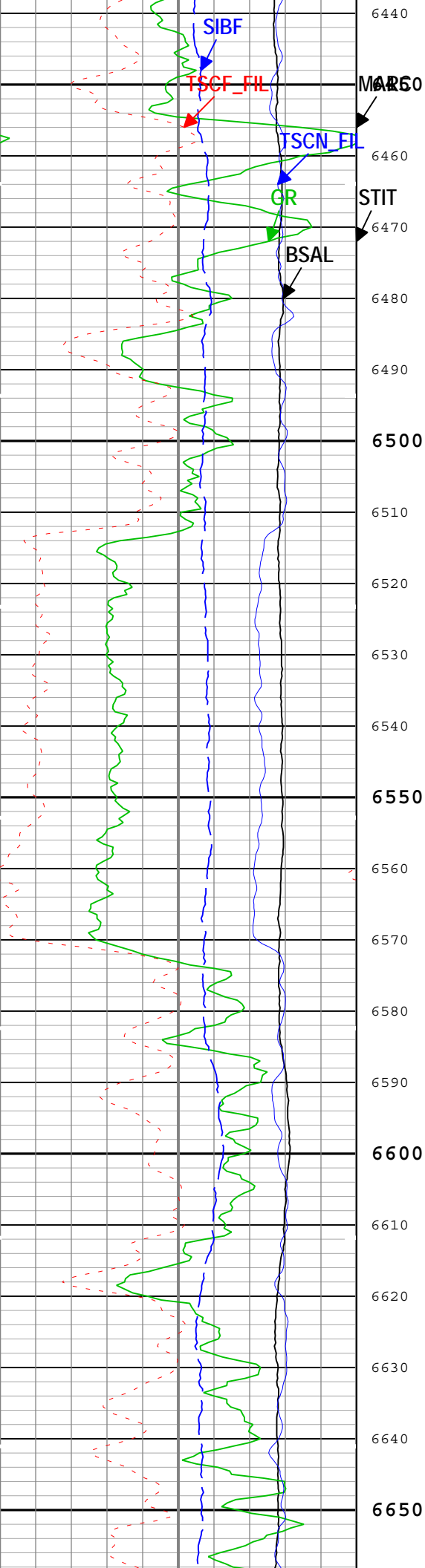


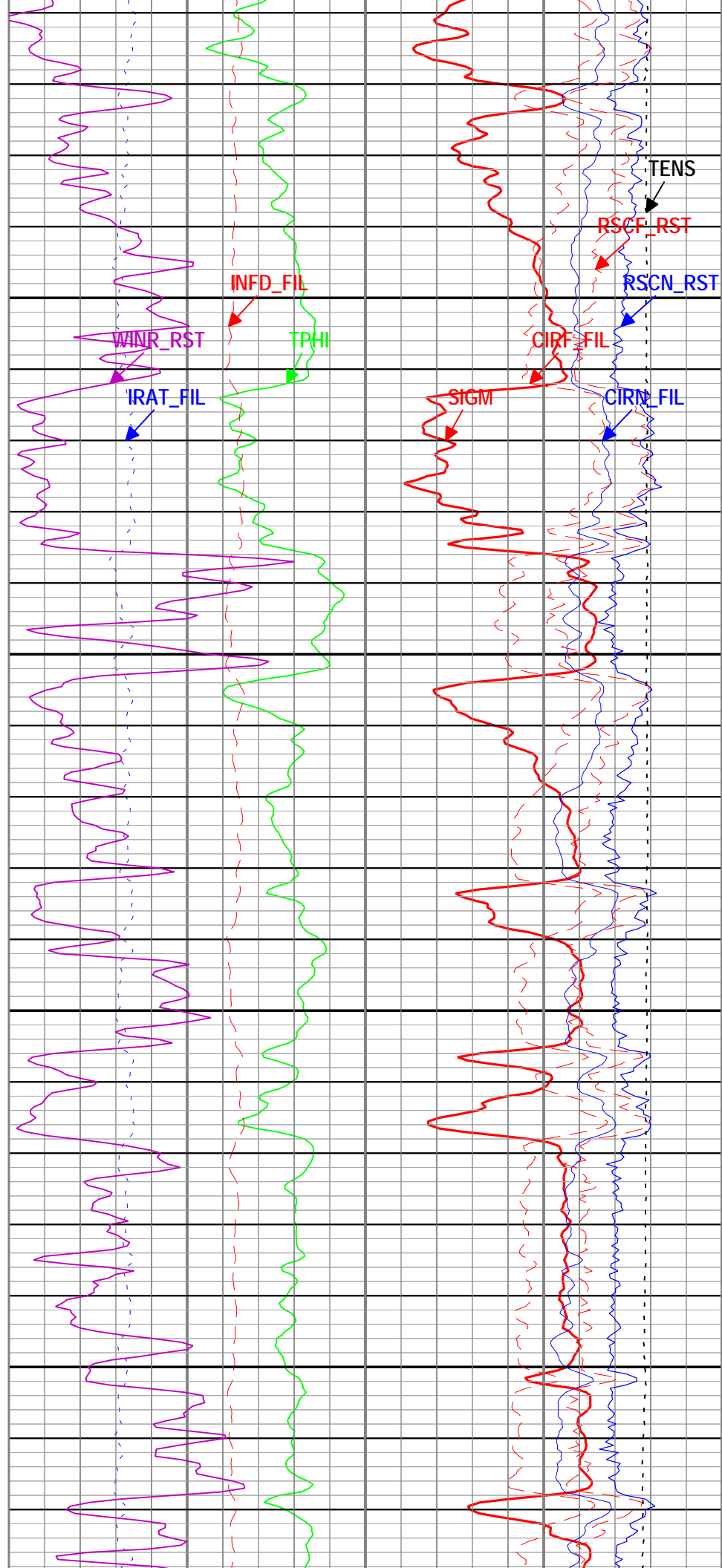
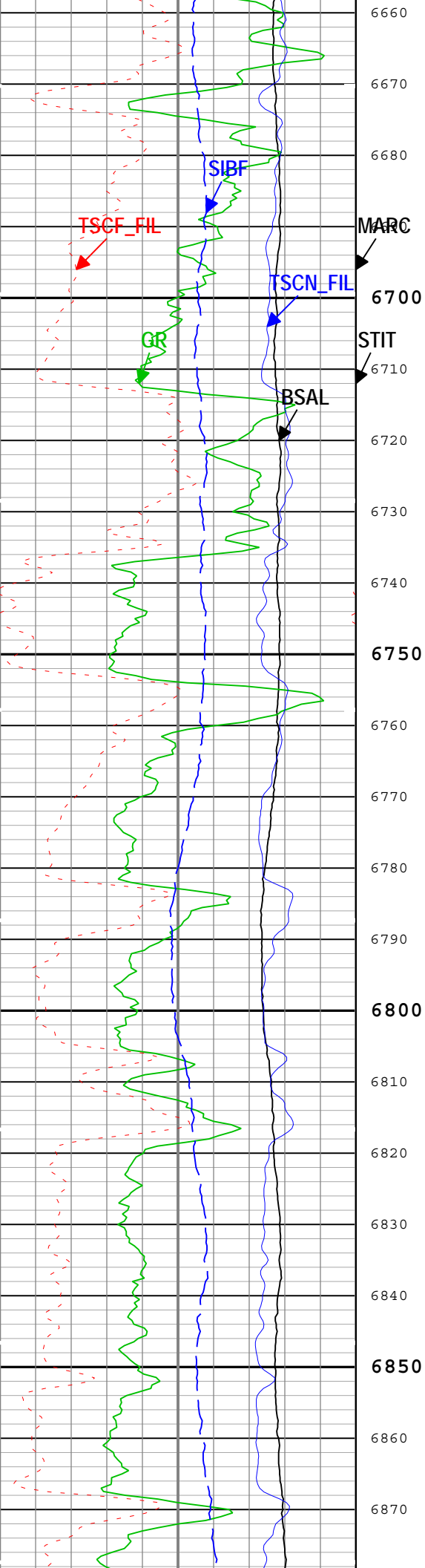


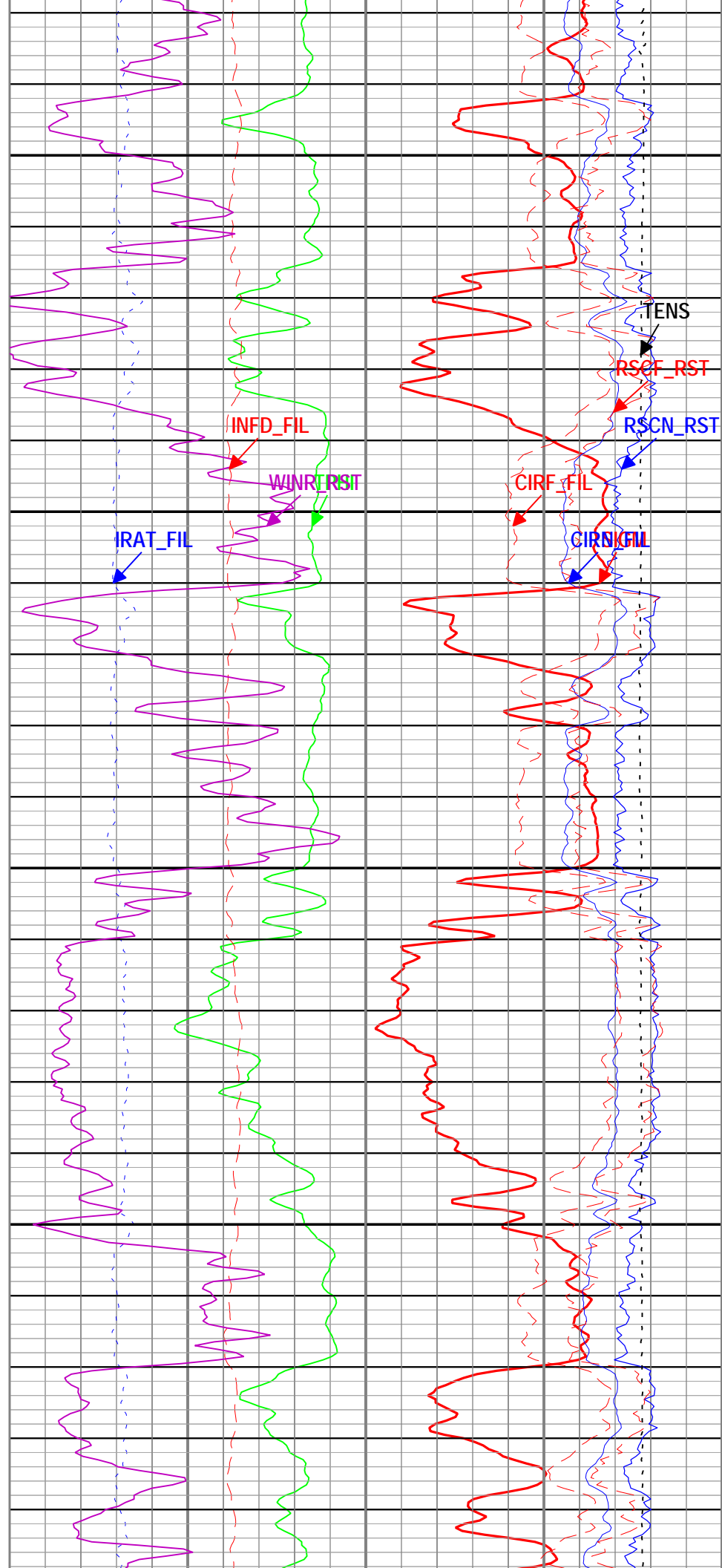
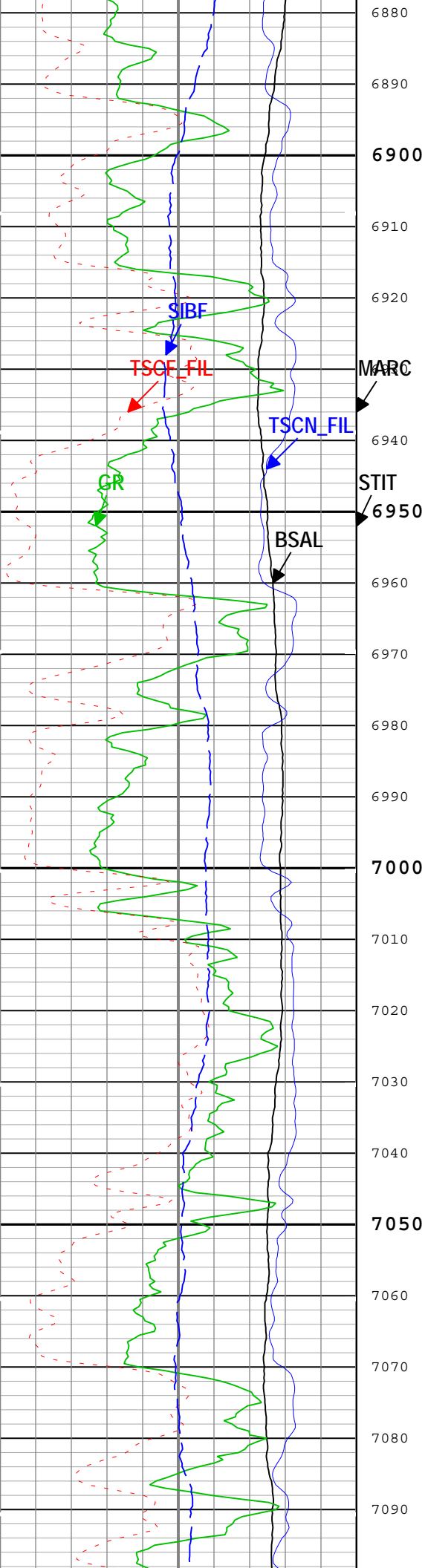


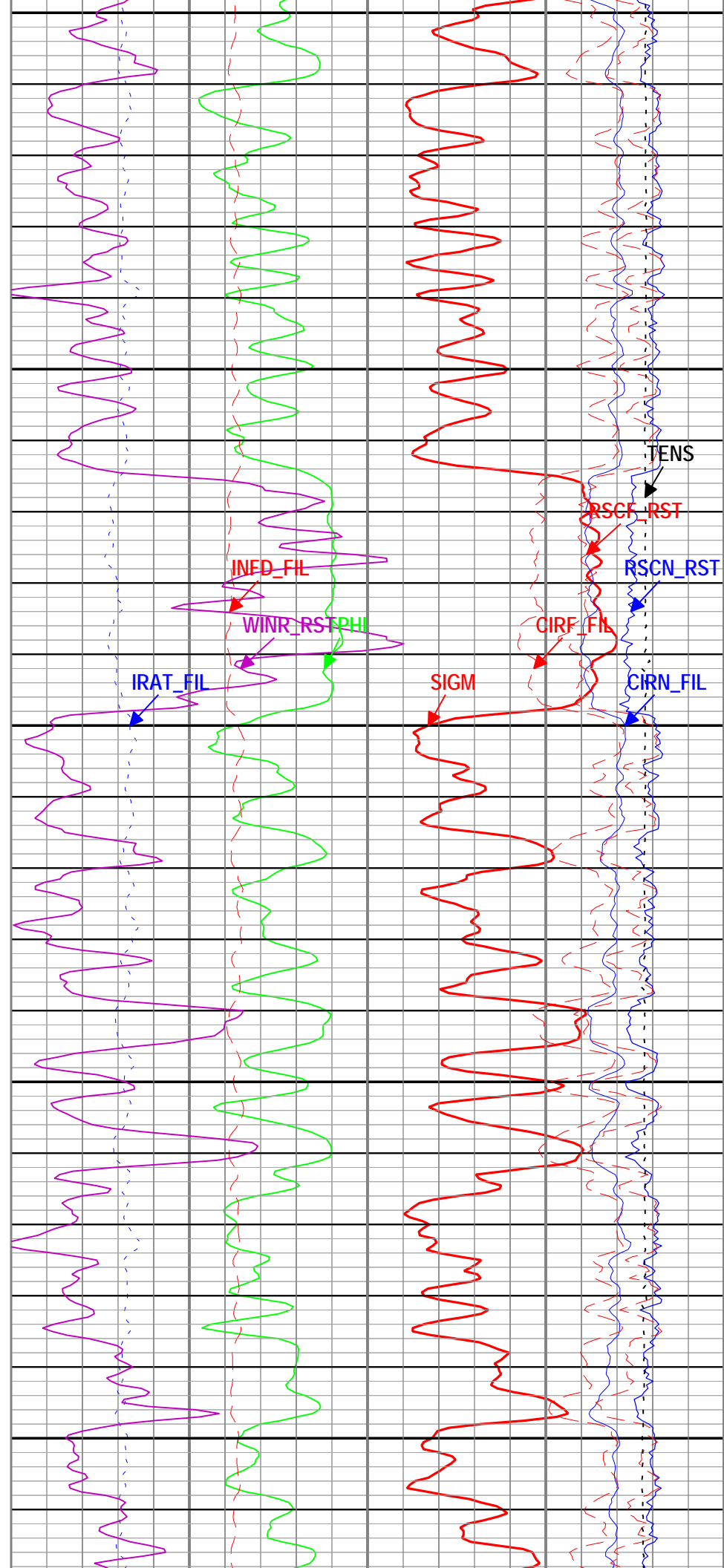
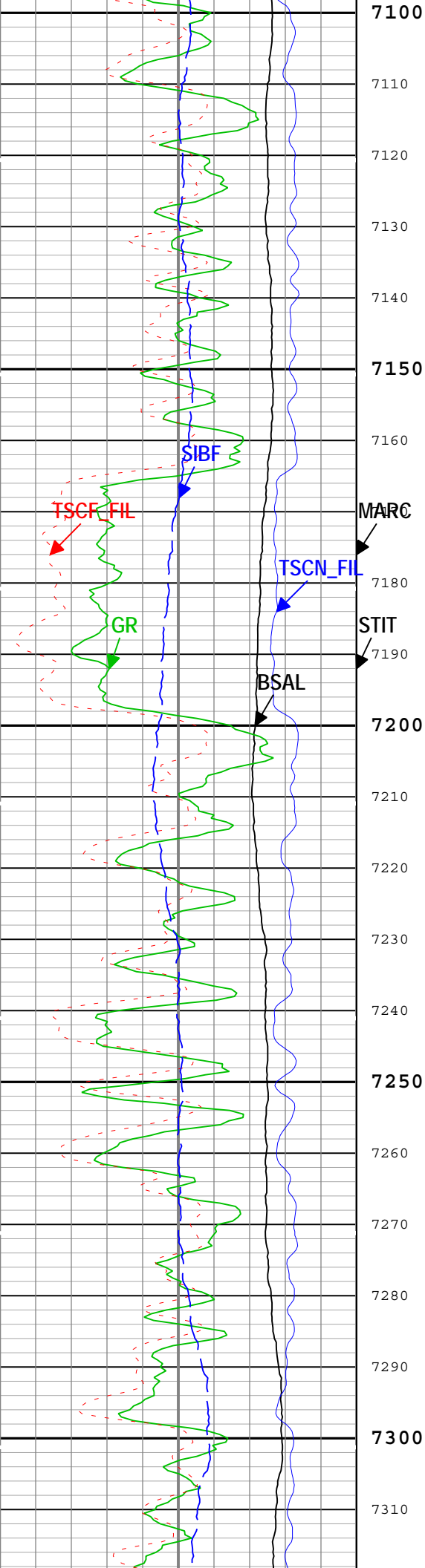


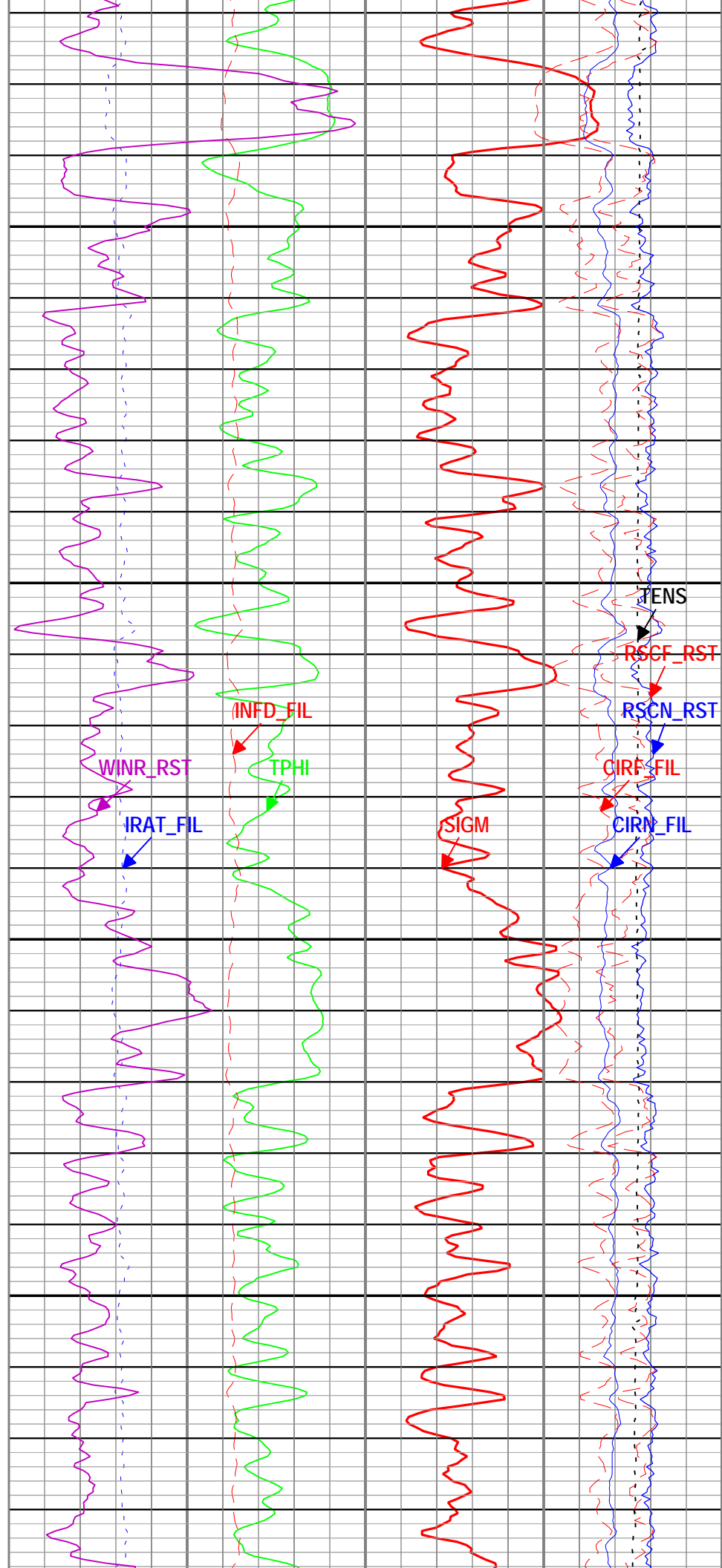
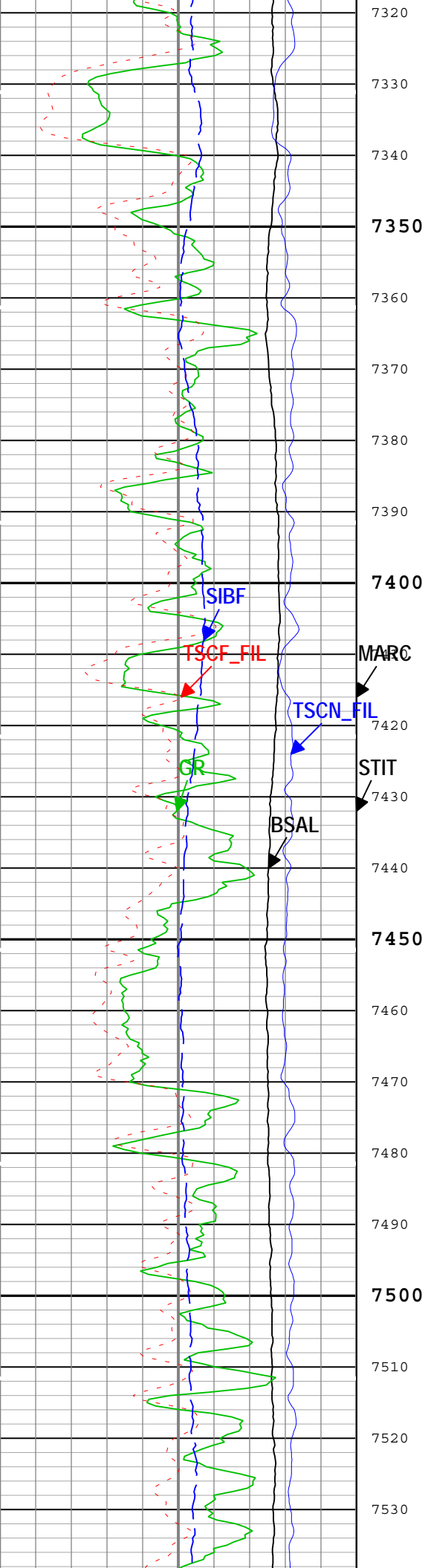


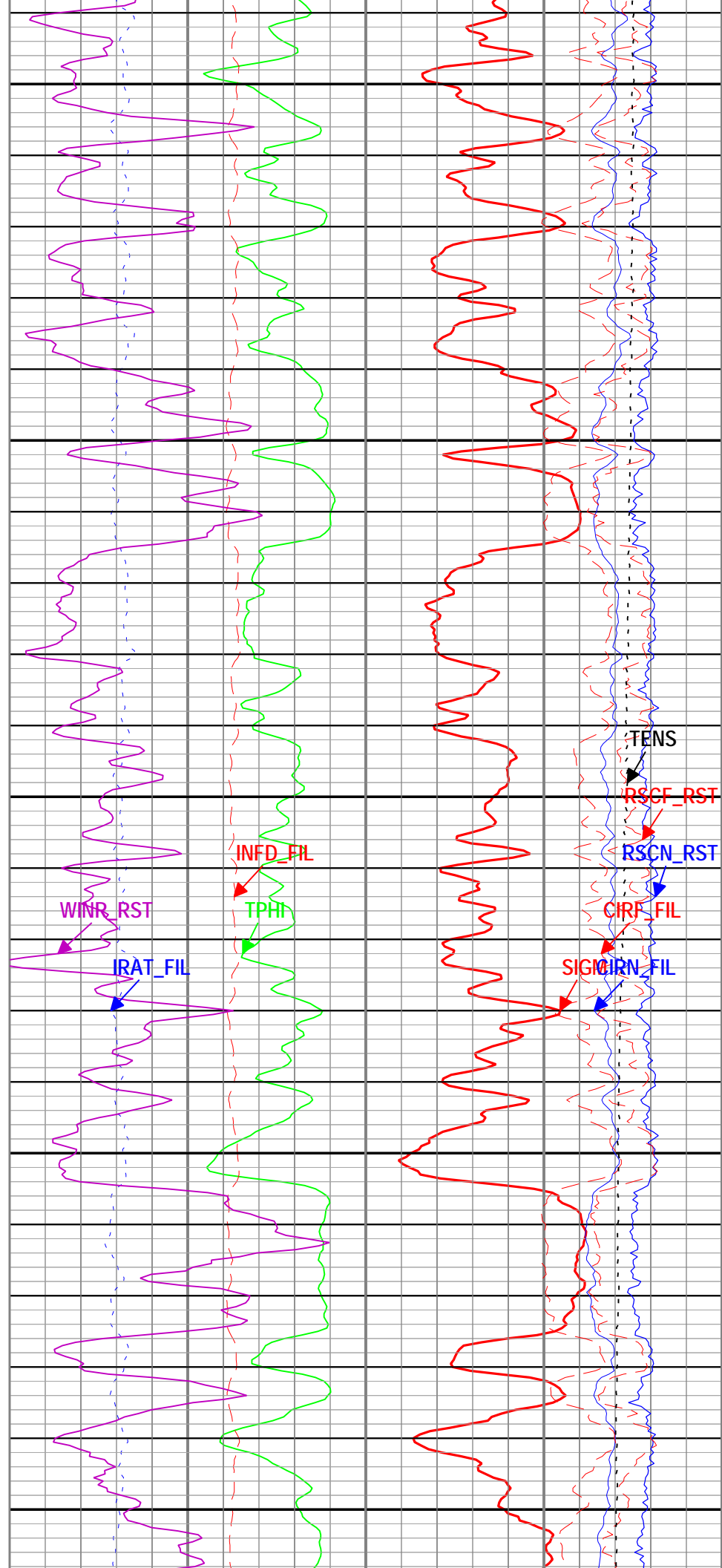
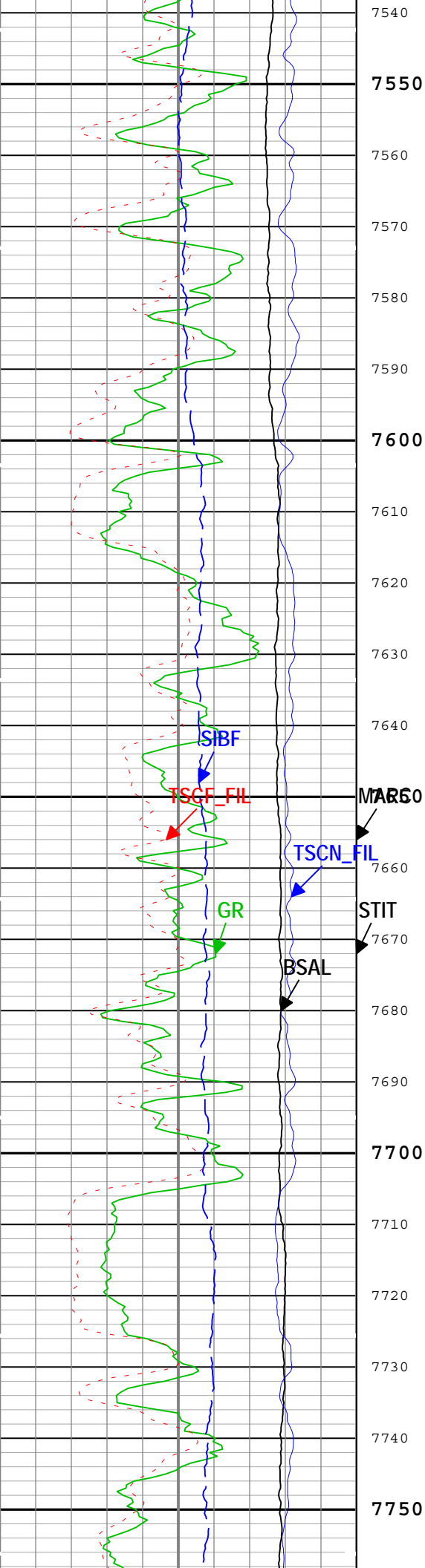


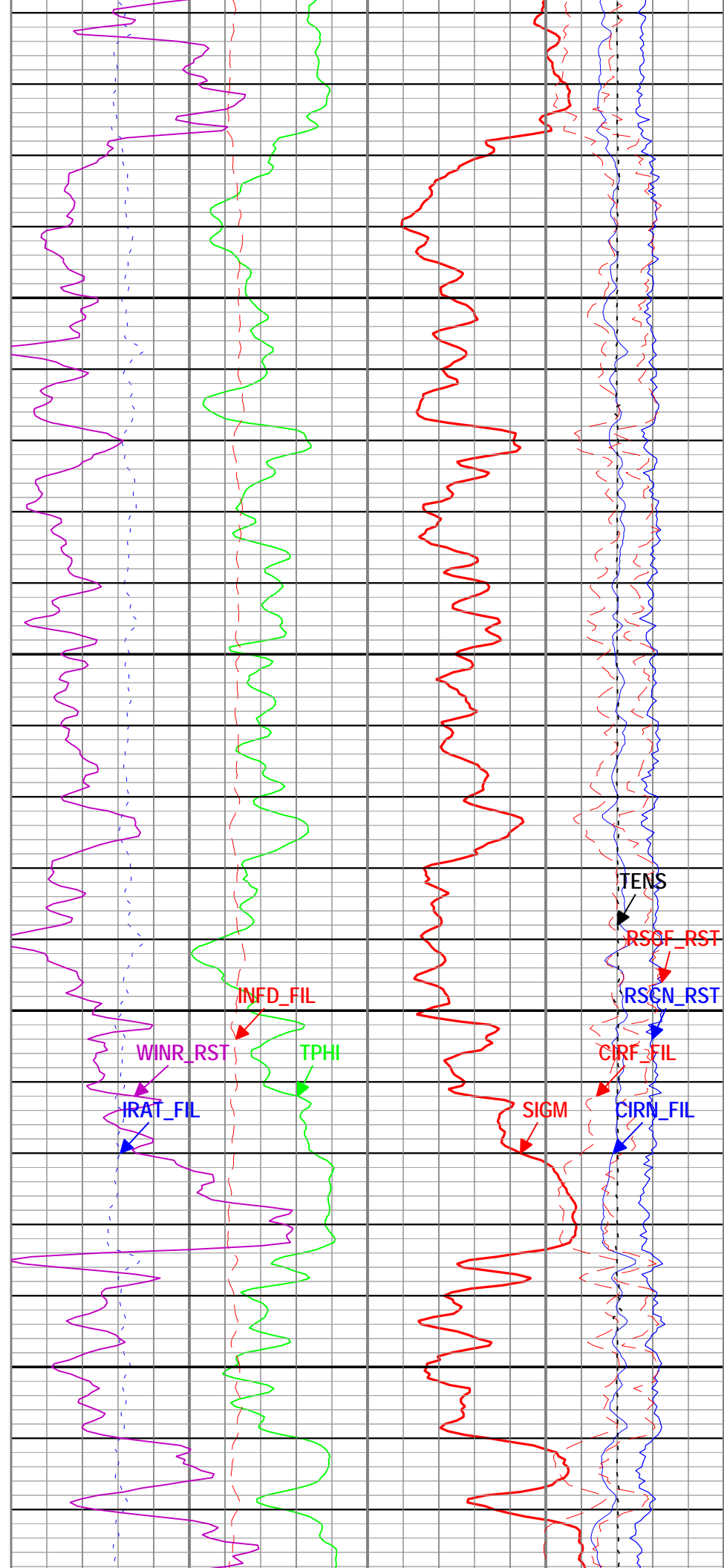
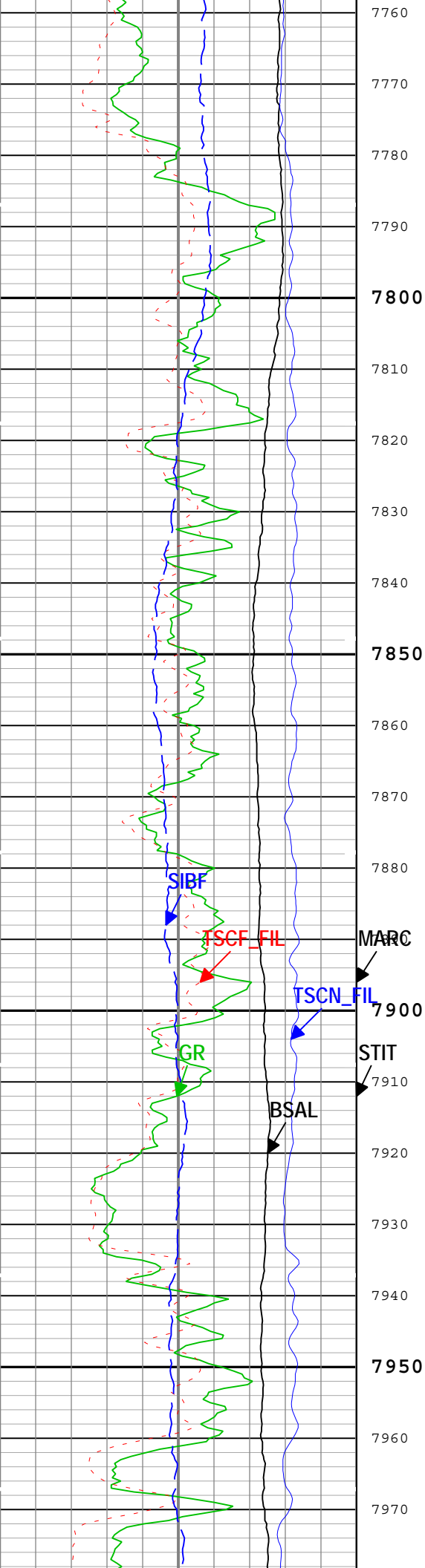




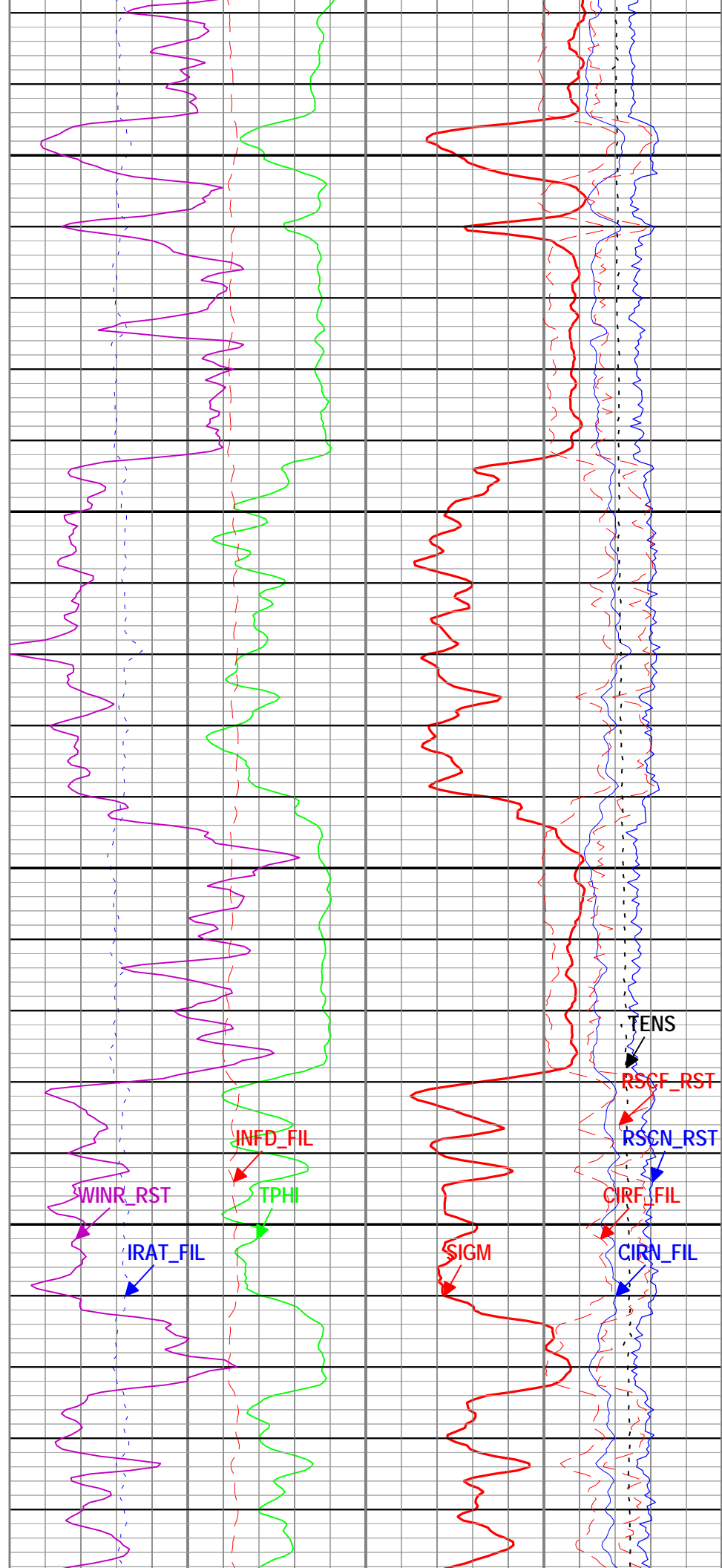
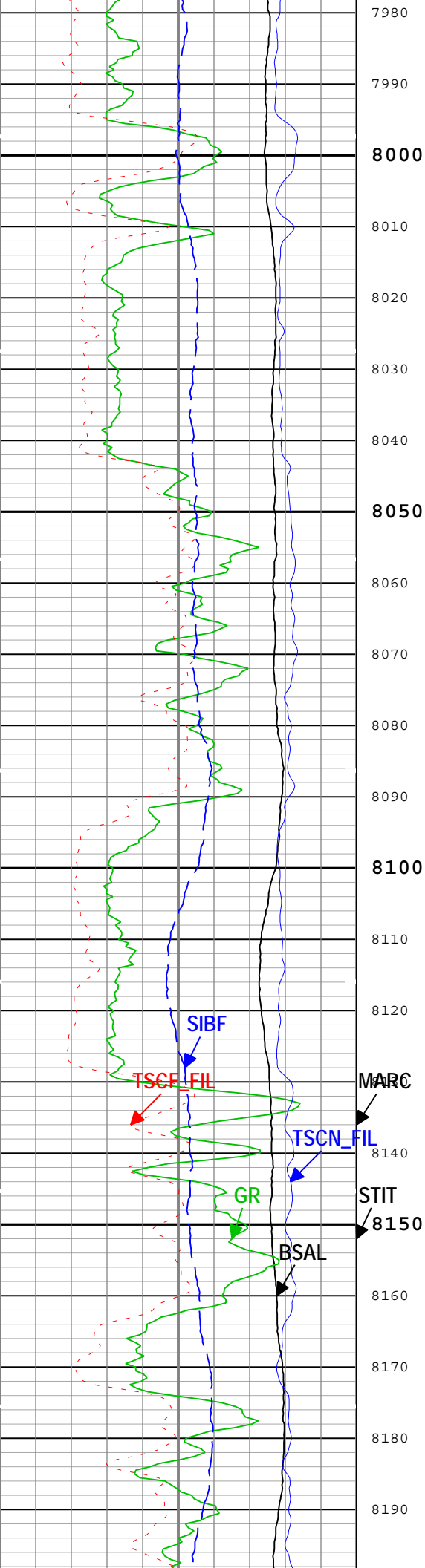




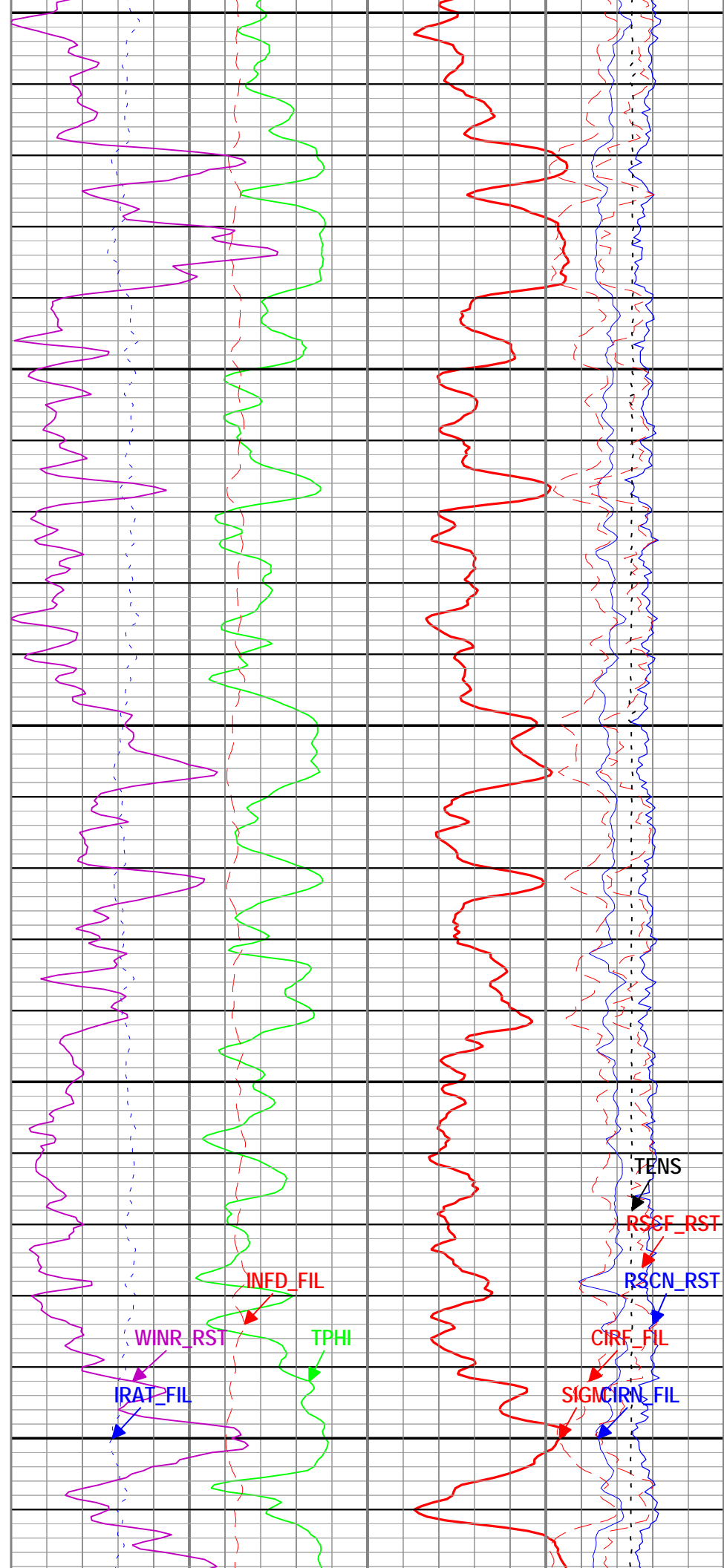
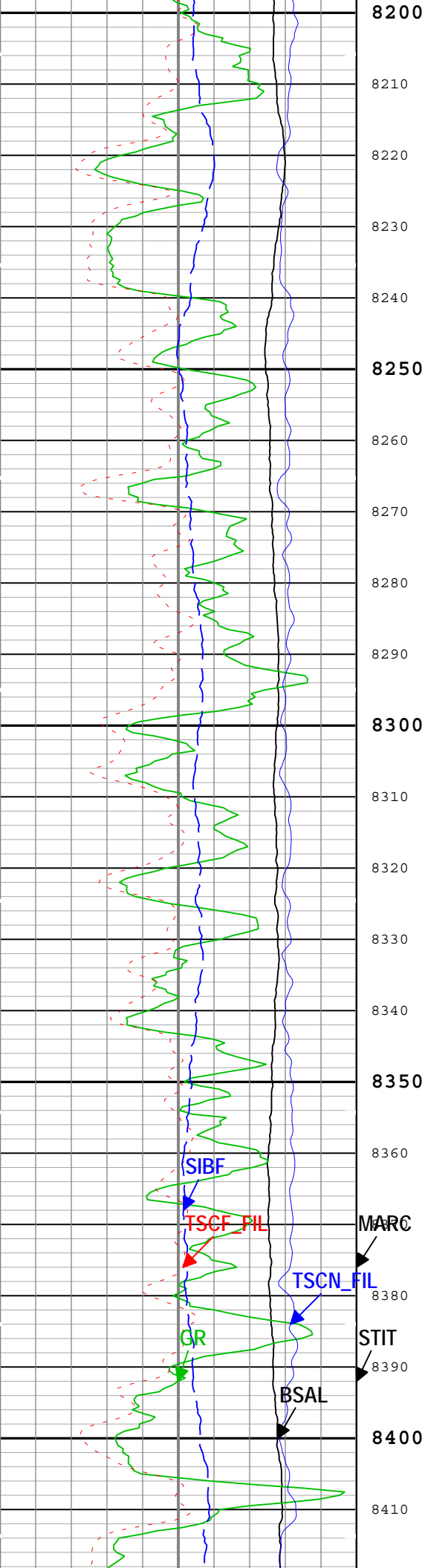


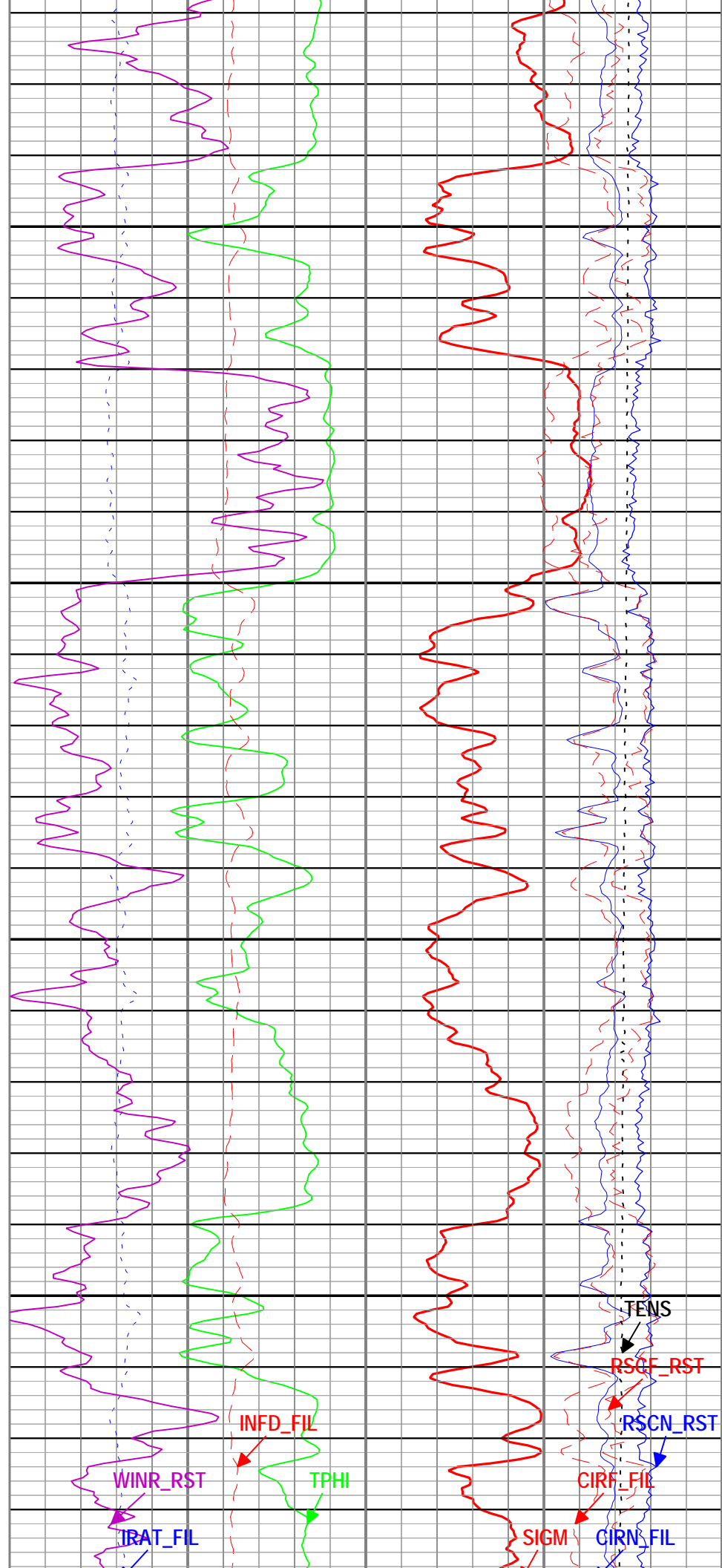
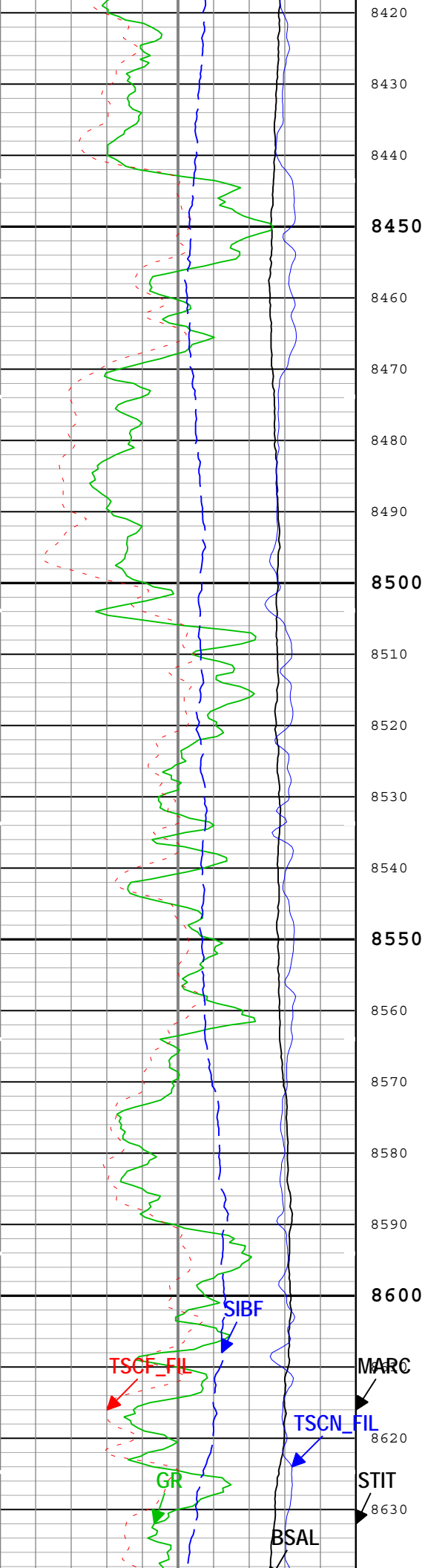


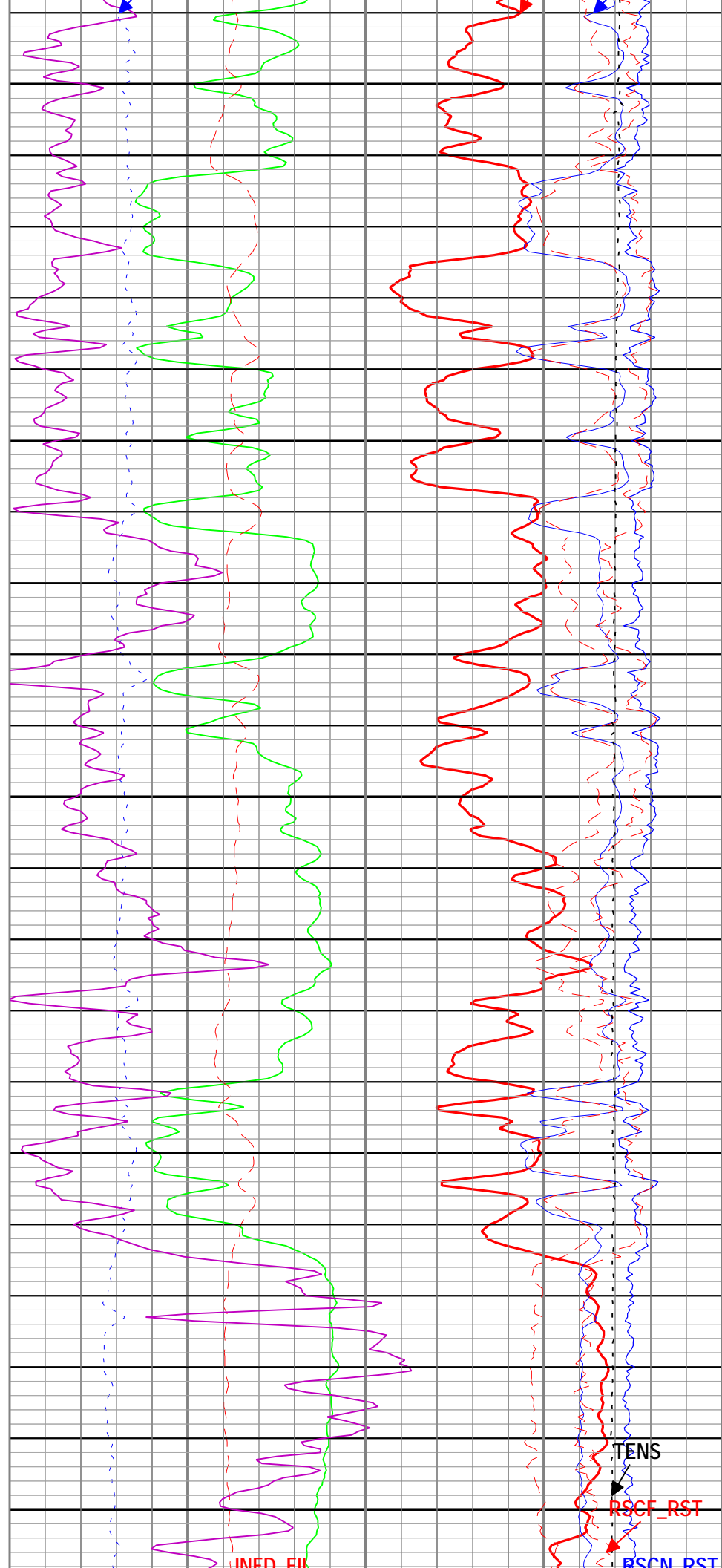
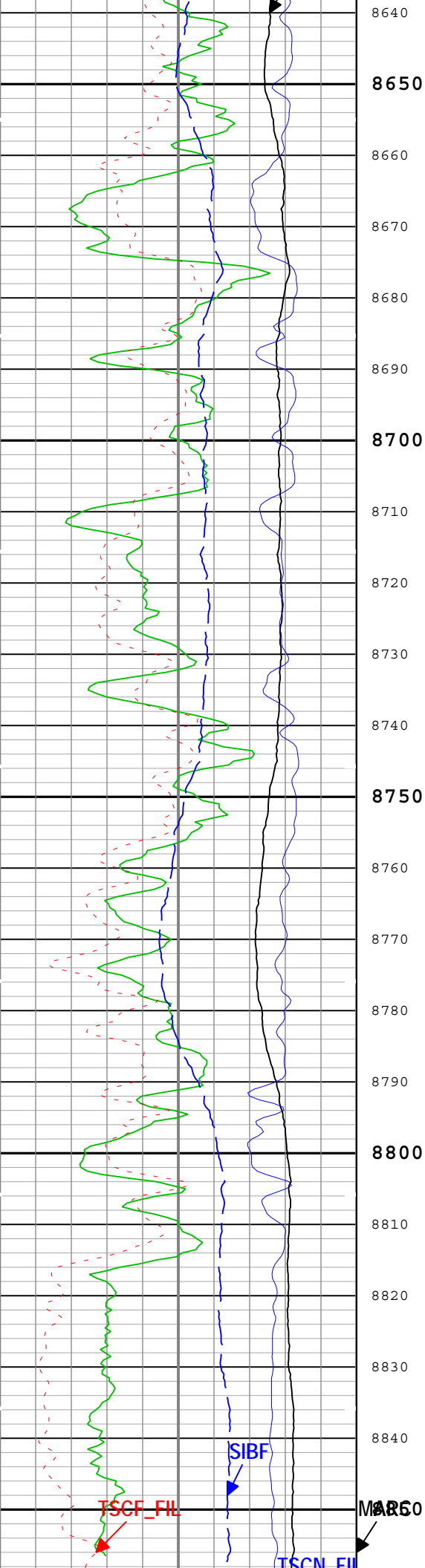


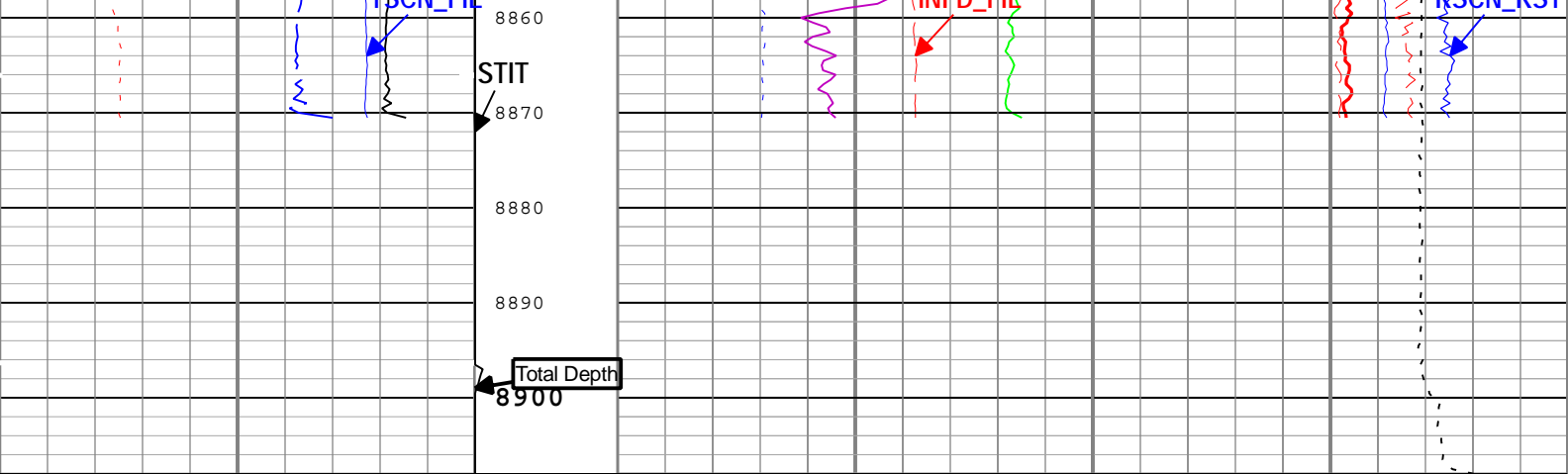












Borehole Salinity (BSAL) RST-C			Stuck Tool Indicator, Total (STIT)			Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C		
450	ppk	-50	0	ft	50	60	cu	0
Gamma Ray (GR) PSTP-A						Weighted Inelastic Ratio (WINR_RST) RST-C		
0	gAPI	150				0		0.4
Total Selected Count Rate Near Detector Filtered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

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: 24-Jul-2015 20:50:45

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	
DFT	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
RST_CSIZ	RST Virtual Casing Outer Diameter	RST-C	4.5	in
RST_CWEI	RST Virtual Casing Weight	RST-C	11.6	lbm/ft

TD	Total Measured Depth	Borehole	8999	ft
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Depth Zone Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
BS	14.75	2445.5	2537
BS	8.75	2537	8908.02

All depths 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	Repeat[3]:Up	Up	8509.61 ft	8910.61 ft	24-Jul-2015 4:13:18 PM	24-Jul-2015 4:28:03 PM	ON	2.86 ft	No
ONE	Main[4]:Up	Up	2496.34 ft	8908.03 ft	24-Jul-2015 4:38:47 PM	24-Jul-2015 8:15:43 PM	ON	6.51 ft	No

All depths are referenced to toolstring zero

Log	Company:Caerus Piceance LLC      Well:Puckett 13A-1 ONE: Main[4]:Up:S006
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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: 24-Jul-2015 20:50:49

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

45ppk-50

Main To Repeat

Repeat To Main

Sigma Borehole Fluid (SIBF) RST-C

Main To Repeat

Repeat To Main

Capture to Inelastic Ratio Near Filtered

Main To Repeat

Repeat To Main

Far Detector Effective Unregulated Capture Count Rate (RSCF\_RST) RST-C

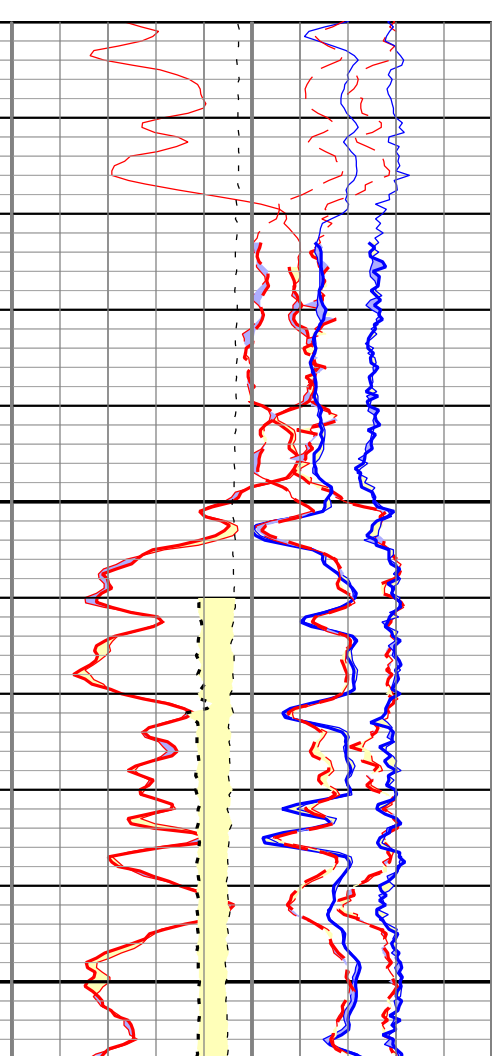
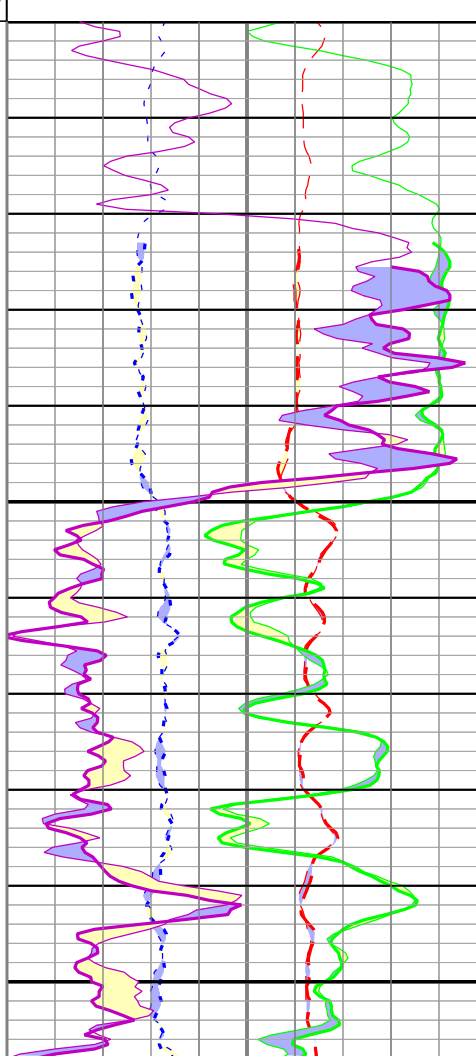
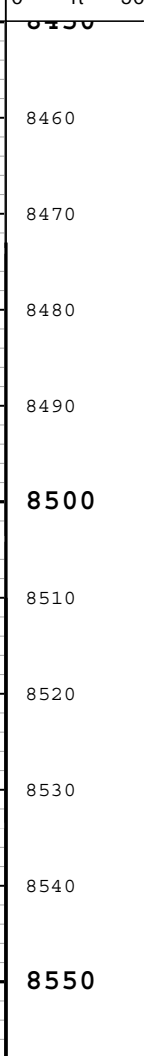
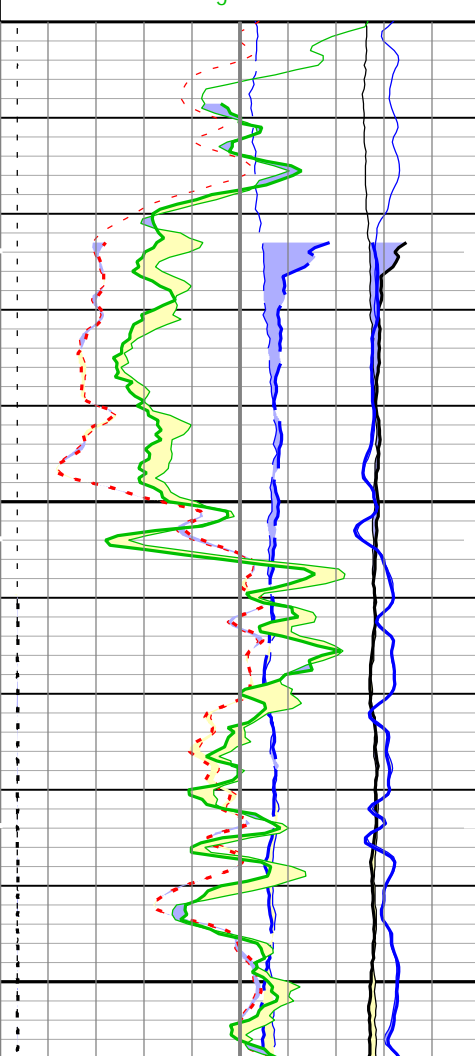
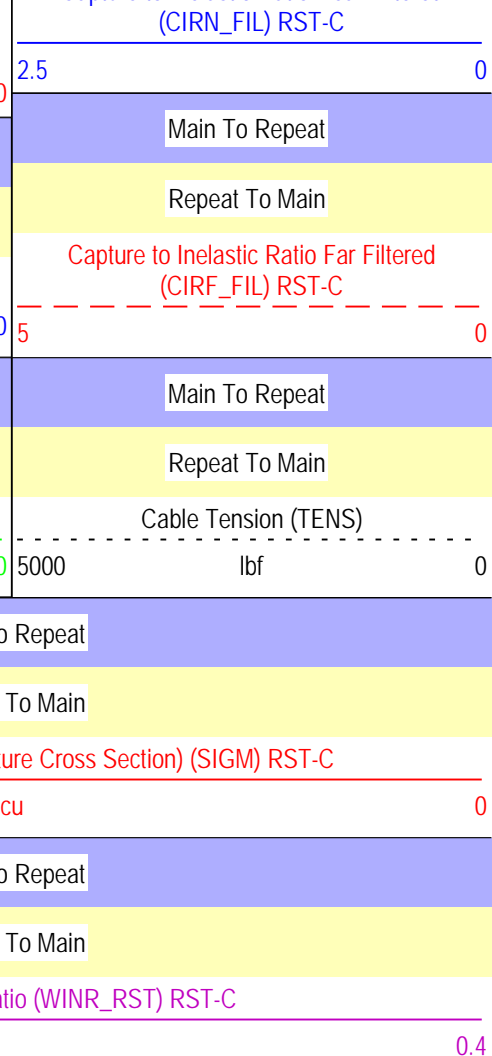
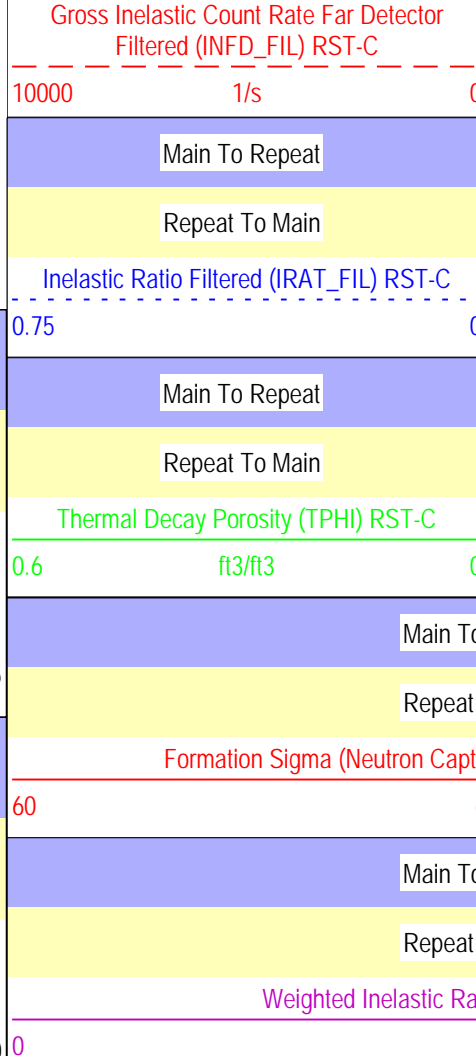
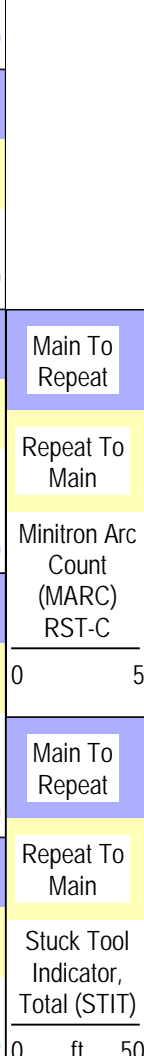
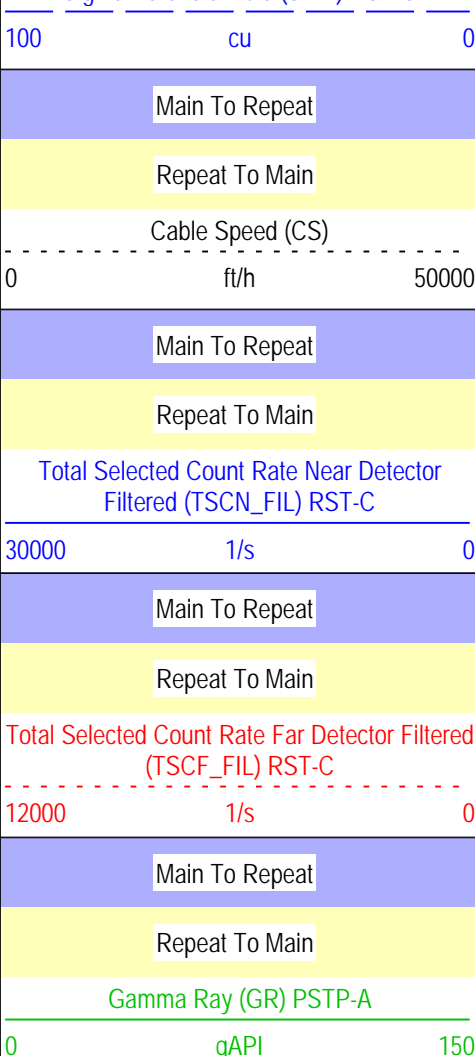
450

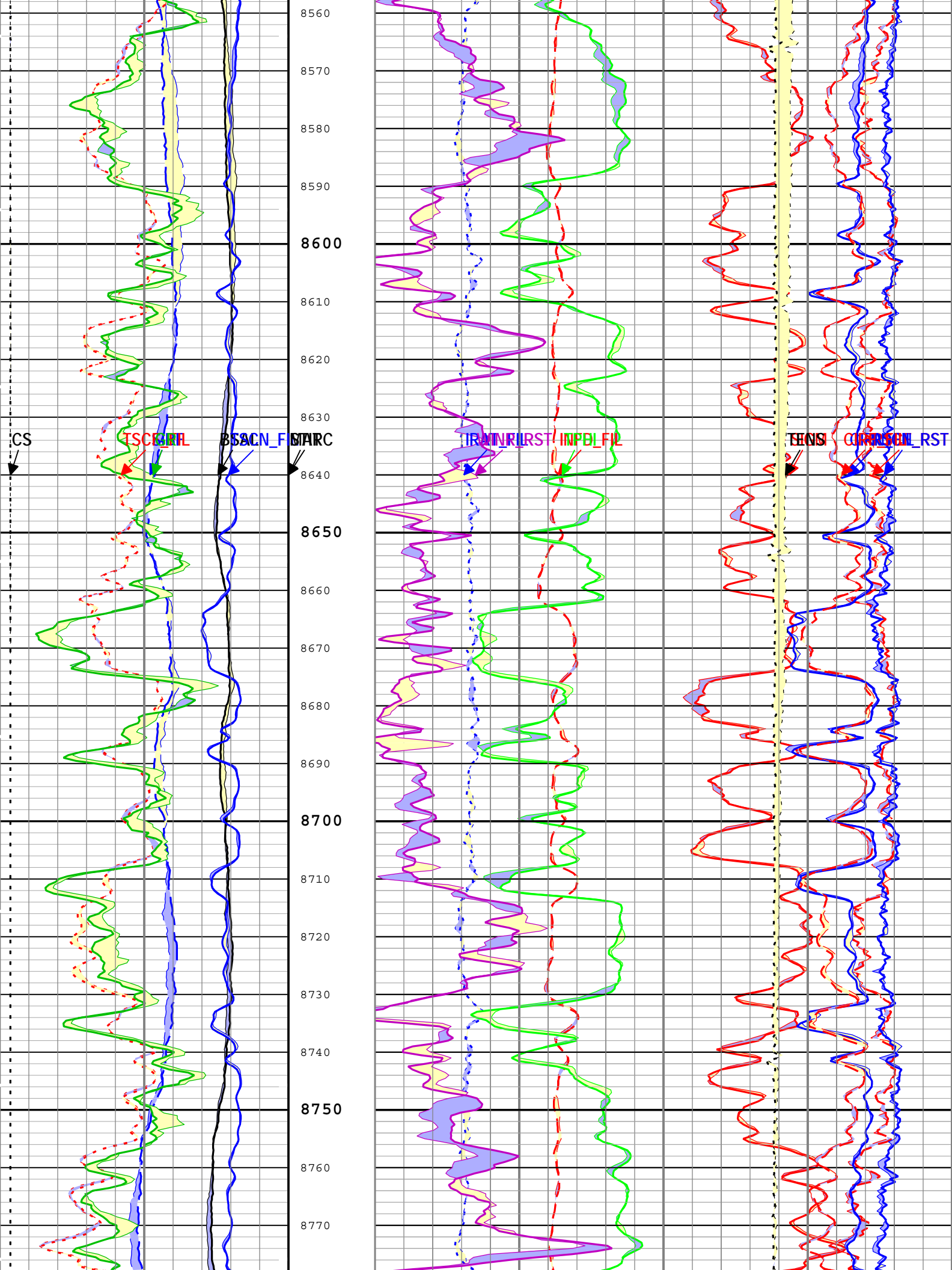
Main To Repeat

Repeat To Main

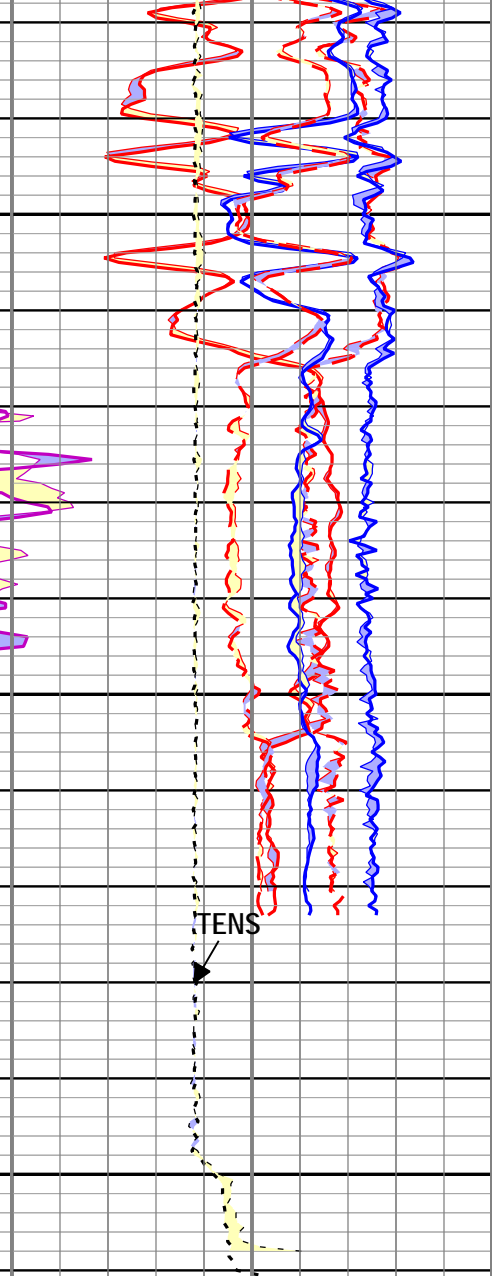
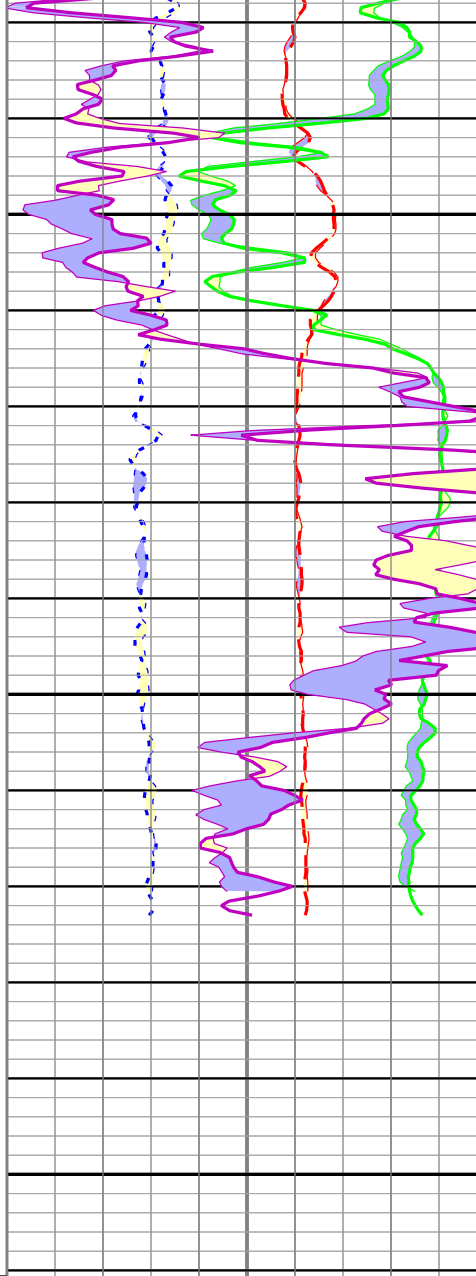
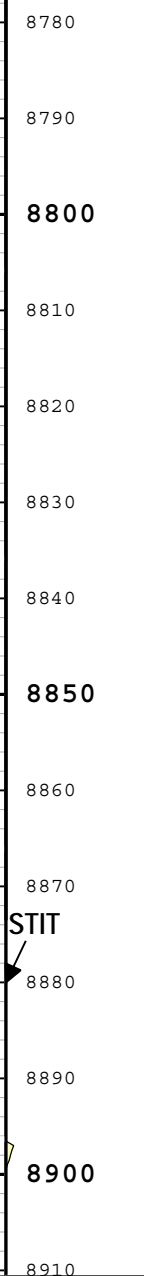
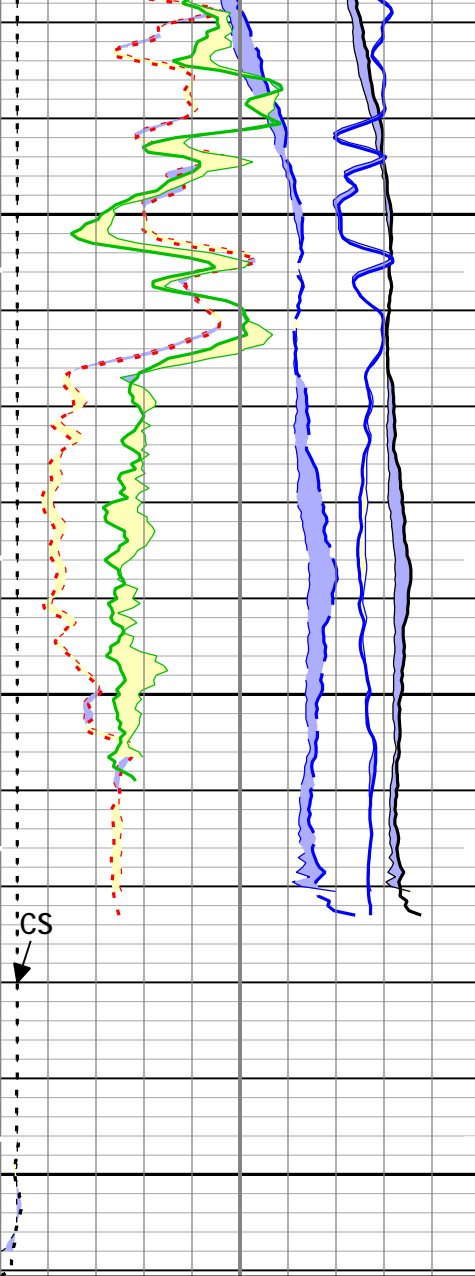
Near Detector Effective Unregulated Capture Count Rate (RSCN\_RST) RST-C

450









Main To Repeat		
Repeat To Main		
Borehole Salinity (BSAL) RST-C		
450	ppk	-50
Main To Repeat		
Repeat To Main		
Sigma Borehole Fluid (SIBF) RST-C		
100	cu	0
Main To Repeat		
Repeat To Main		
Cable Speed (CS)		
0	ft/h	50000
Main To Repeat		
Repeat To Main		

Main To Repeat		
Repeat To Main		
Minitron Arc Count (MARC) RST-C		
0		5
Main To Repeat		
Repeat To Main		
Stuck Tool Indicator, Total (STIT)		
0	ft	50
Main To Repeat		
Repeat To Main		

Main To Repeat			
Repeat To Main			
Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C			
60	cu		0
Main To Repeat			
Repeat To Main			
Weighted Inelastic Ratio (WINR_RST) RST-C			
0			0.4
Main To Repeat		Main To Repeat	
Repeat To Main		Repeat To Main	
Gross Inelastic Count Rate Far Detector Filtered (INFDFIL) RST-C		Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C	
10000	1/s	0	45
Main To Repeat		Main To Repeat	
Repeat To Main		Repeat To Main	



Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C		
30000	1/s	0
Main To Repeat		
Repeat To Main		
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C		
12000	1/s	0
Main To Repeat		
Repeat To Main		
Gamma Ray (GR) PSTP-A		
0	gAPI	150

Repeat To Main		
Inelastic Ratio Filtered (IRAT_FIL) RST-C		
0.75		0
Main To Repeat		
Repeat To Main		
Thermal Decay Porosity (TPHI) RST-C		
0.6	ft3/ft3	0

Repeat To Main		
Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C		
45		0
Main To Repeat		
Repeat To Main		
Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C		
2.5		0
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

- 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: 24-Jul-2015 20:50:49

Calibration Report							
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>
Near Spectral Acquisition Time Calibration Coefficient - 0	s	Master	----	----	----	----	<div></div>
Near Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	<div></div>
Far Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	<div></div>
Near Windows Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	<div></div>
Far Windows Carbon/Oxygen Ratio Calibration Coefficient - 0		Master	----	----	----	----	<div></div>
Near IC Mode Capture Optimization Resolution Degradation Factor Calibration Coefficient - 0		Master	----	----	----	----	<div></div>
Far IC Mode Capture Optimization Resolution Degradation Factor Calibration Coefficient - 0		Master	----	----	----	----	<div></div>
Near Pulse Shape Compensation Voltage Setting Echo Calibration Coefficient - 0	V	Master	----	----	----	----	<div></div>
Far Pulse Shape Compensation Voltage Setting Echo Calibration Coefficient - 0	V	Master	----	----	----	----	<div></div>

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

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		
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	uA	Master	75.000	50.000	85.102	100.000	

Coefficient							
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 (Master) RTD Coefficients

	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

Master (EEPROM):

00:00:00 11-Mar-2002

PBMS\_REF\_CLOCK PBMS A Clock Coefficients  
(Master)

	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\_PRES Sapphire Pressure Model Coefficients  
(Master)

	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 Sapphire Temperature Model Coefficients  
(Master)

	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 13A-1	
Field:	Wildcat	
County:	Garfield	
State:	Colorado	

Reservoir Saturation Tool
Sigma