



Company: ENCANA OIL & GAS (USA) INC.

Well: NP EF09E-27 (P27 595)

Field: NORTH PARACHUTE

County: GARFIELD

State: COLORADO

RESERVOIR SATURATION TOOL  
SIGMA MODE  
GR-CCL

County: GARFIELD  
Field: NORTH PARACHUTE  
Location: SHL: 728' FSL & 594' FEL  
Well: NP EF09E-27 (P27 595)  
Company: ENCANA OIL & GAS (USA) INC.

LOCATION			
SHL: 728' FSL & 594' FEL BHL: 1663' FSL & 680' FEL	Elev.: K.B. 6673.50 ft G.L. 6650.00 ft D.F. 6672.50 ft		
Permanent Datum: _____ Log Measured From: _____ Drilling Measured From: _____	GROUND LEVEL _____ KELLY BUSHING _____ KELLY BUSHING _____	Elev.: _____ 23.50 ft	above Perm. Datum
API Serial No. 05-045-20299-00	Section 27	Township 5S	Range 95W

				Run 1	Run 2	Run
PVT DATA						
Oil Density						
Water Salinity						
Gas Gravity						
Bo						
Bw						
1/Bg						
Bubble Point Pressure						
Bubble Point Temperature						
Solution GOR						
Maximum Deviation						
CEMENTING DATA						
Primary/Squeeze				Primary		
Casing String No						
Lead Cement Type						
Volume						
Density						
Water Loss						
Additives						
Tail Cement Type						
Volume						
Density						
Water Loss						
Additives						
Expected Cement Top						

Logging Date		15-Aug-2012	
Run Number	1		
Depth Driller	11265 ft		
Schlumberger Depth	11177 ft		
Bottom Log Interval	11156 ft		
Top Log Interval	3000 ft		
Casing Fluid Type	FRESH WATER		
Salinity			
Density	8.4 lbm/gal		
Fluid Level	100 ft		
BIT/CASING/TUBING STRING			
Bit Size	7.875 in		
From	7553 ft		
To	11265 ft		
Casing/Tubing Size	4.500 in		
Weight	11.6 lbm/ft		
Grade	P-110		
From	23.5 ft		
To	11251 ft		
Maximum Recorded Temperatures	291 degF		
Logger On Bottom	15-Aug-2012	9:00	
Unit Number	391	GRAND JUNCTION	
Recorded By	KIRSTIE BUNTING		
Witnessed By	JOHN MILLER		

Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Fluid Type			
Salinity			
Density			
Fluid Level			
BIT/CASING/TUBING STRING			
Bit Size			
From			
To			
Casing/Tubing Size			
Weight			
Grade			
From			
To			
Maximum Recorded Temperatures			
Logger On Bottom			
Unit Number			
Recorded By			
Witnessed By			

## DEPTH SUMMARY LISTING

Date Created: 15-AUG-2012 9:56:44

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-25ZT
Serial Number:	6214	Serial Number:	5006	Serial Number:	111306
Calibration Date:	04-24-2012	Calibration Date:	08-14-2012	Length:	16000 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	174878	Conveyance Method: Wireline Rig Type: LAND	
Calibration Cable Type:	1-25P	Number of Calibration Points:	10		
Wheel Correction 1:	-3	Calibration RMS:	5		
Wheel Correction 2:	-4	Calibration Peak Error:	7		

## Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	200.00 FT
Rig Up Length At Bottom:	200.00 FT
Rig Up Length Correction:	0.00 FT
<b>Stretch Correction:</b>	<b>0.00 FT</b>
Tool Zero Check At Surface:	


### Depth Control Remarks

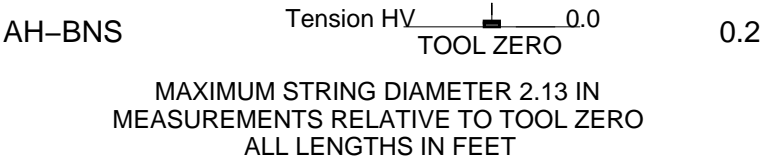
1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES UTILIZED
2. PRIMARY DEPTH CONTROL : IDW
3. SECONDARY DEPTH CONTROL: DRUM COUNTER (SWPT)
- 4.
- 5.
- 6.

## DISCLAIMER

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

OTHER SERVICES1	OTHER SERVICES2
OS1: SLIM CEMENT MAPPING	OS1:
OS2: TOOL	OS2:
OS3: CBL-VDL	OS3:
OS4: GR-CCL	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FIRST RUN IN HOLE CORRELATED TO DOWN LOG	
TOOL RAN AS PER TOOL SKETCH	
TOTAL DEPTH TAGGED = 11177 FT	
STRETCH CORRECTION = 5 FT	
MAXIMUM RECORDED TEMPERATURE = 291 DEGF	
MAXIMUM RECORDED PRESSURE = 4670 PSIA	

RST FLASKED					
SANDSTONE MATRIX USED					
BIT SIZE ZONED					
8.750: 23.5'–7553'					
7.875: 7553'–11265'					
THANK YOU FOR CHOOSING E&P WIRELINE A SCHLUMBERGER COMPANY					
SLB CREW: KBUNTING, WFLOYD, WAZIZ, KJOHNS, CARNOLD					
RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
CADB-00012 19C0-187 100 ft					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT					
WITM-A PSC_16MHZ					
DOWNHOLE EQUIPMENT					
MH-22 MH-22	Detail MT TelStatus CTEM		46.5		
HBMS-B PSC-A HUDH-A HSTC-A 2880 HBMC-A GR CCL HBMC HTPS-A HCQG_E_Mano RTD_Thermometer		GR	44.9	44.9	
			40.0		
			37.6		
			36.1		
			34.7		
RST-CF UDFH-RSCH-A RSC-E 429 UDFH-RSS-A 210 UDFH-RSXH-A RSX-E 436			33.8		



MAXIS Field Log

## Input DLIS Files

DEFAULT	RST_HBMS_008LUP	FN:7	PRODUCER	15-Aug-2012 08:52	11185.5 FT	2930.5 FT
---------	-----------------	------	----------	-------------------	------------	-----------

## Output DLIS Files

DEFAULT	RST_HBMS_009PUP	FN:8	PRODUCER	15-Aug-2012 11:13	11190.5 FT	2911.5 FT
---------	-----------------	------	----------	-------------------	------------	-----------

**OP System Version: 19C0-187**

RST-CF                      SRPC-5095-H2-2011-OP19                      HBMS-B                      19C0-187

## Changed Parameter Summary

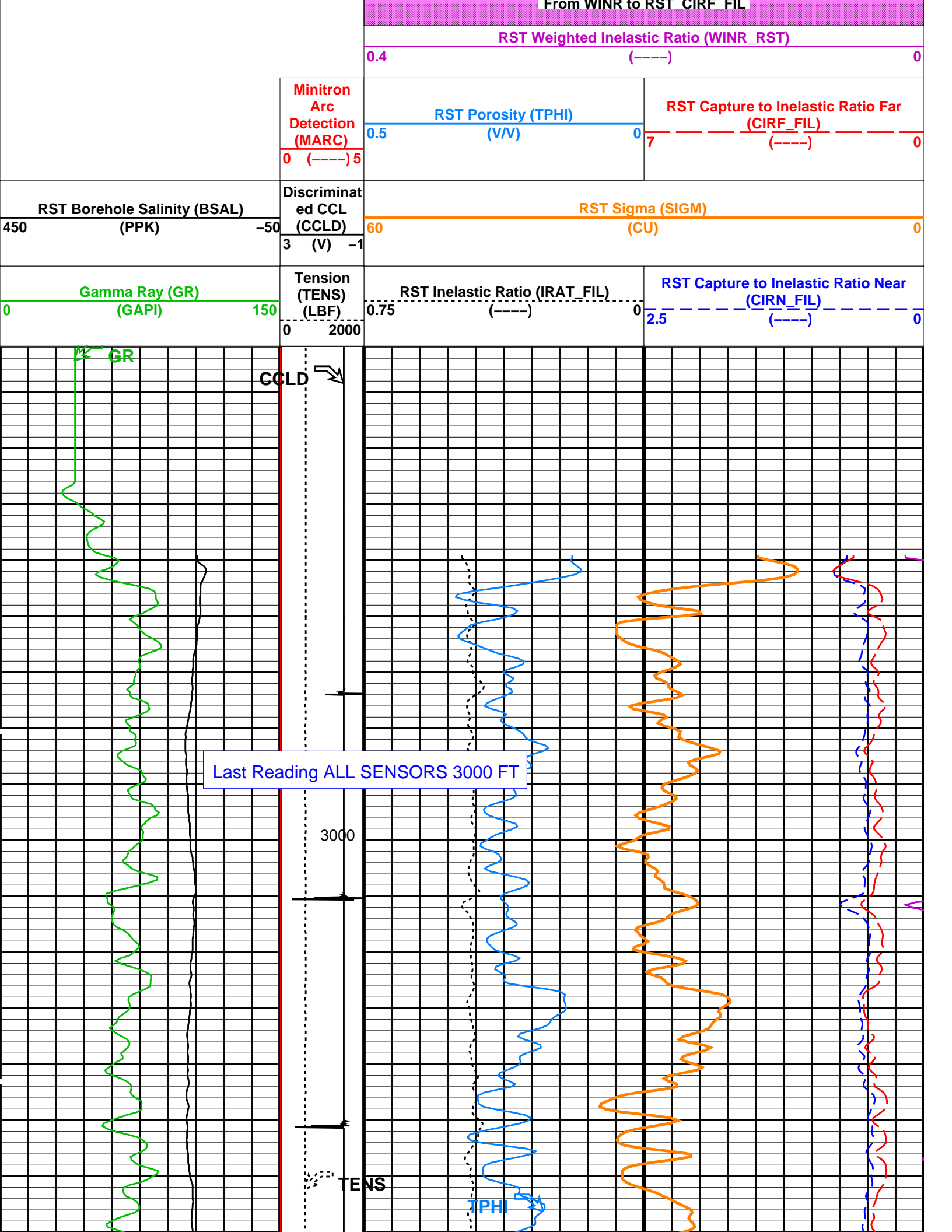
DLIS Name	New Value	Previous Value	Depth & Time
BS	7.875 IN	8.750 IN	11190.5 11:13:19
	8.750 IN	7.875 IN	7553.0 11:15:59

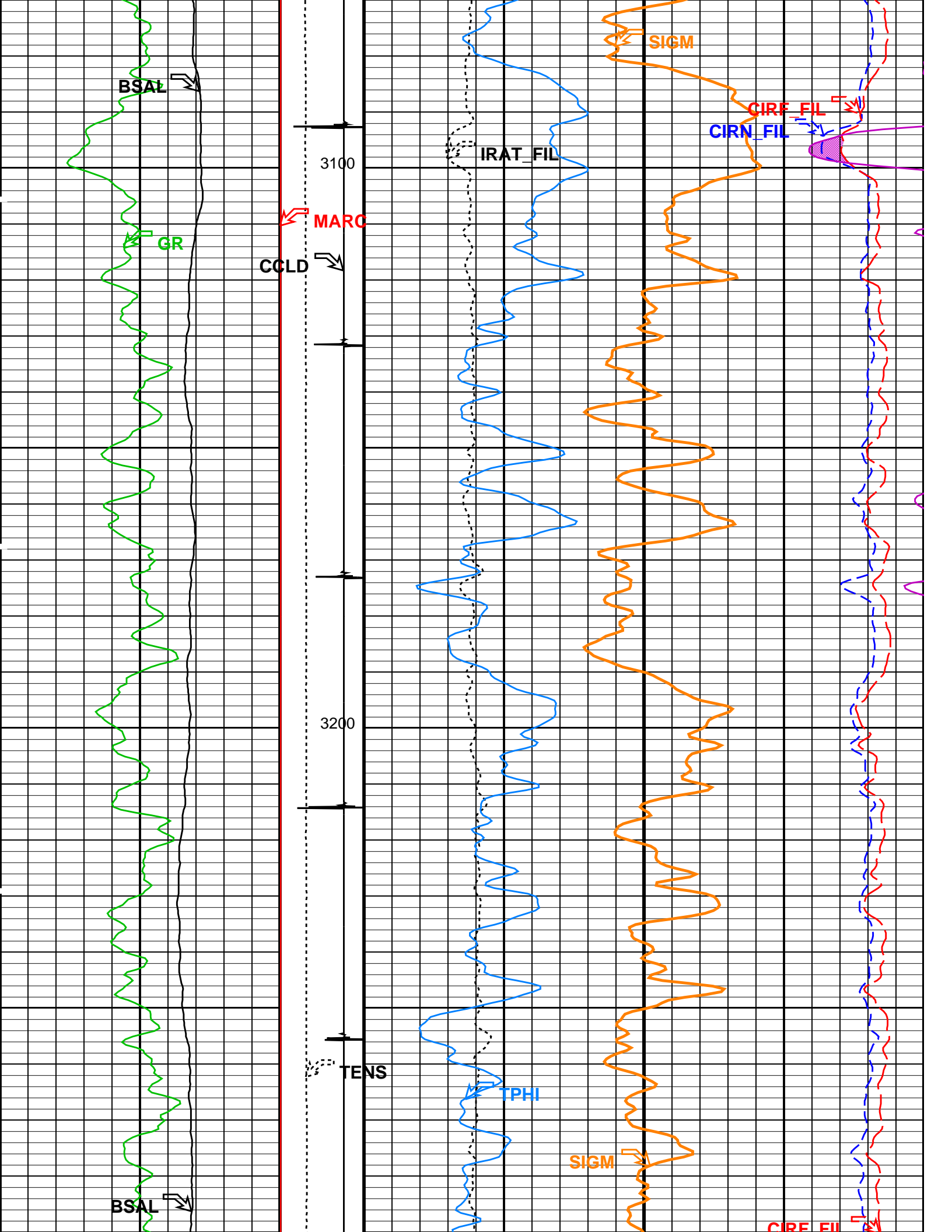
## PIP SUMMARY

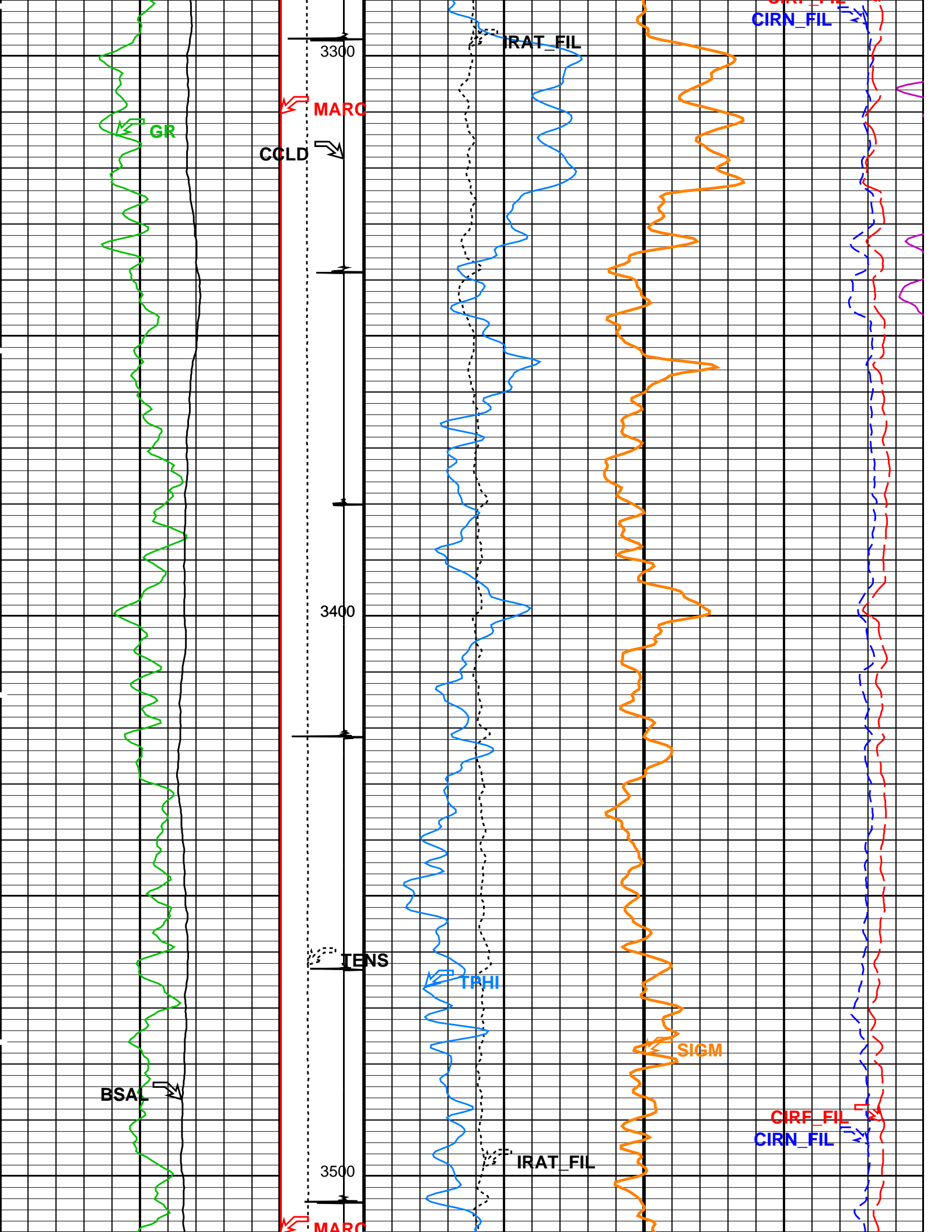
**Time Mark Every 60 S**

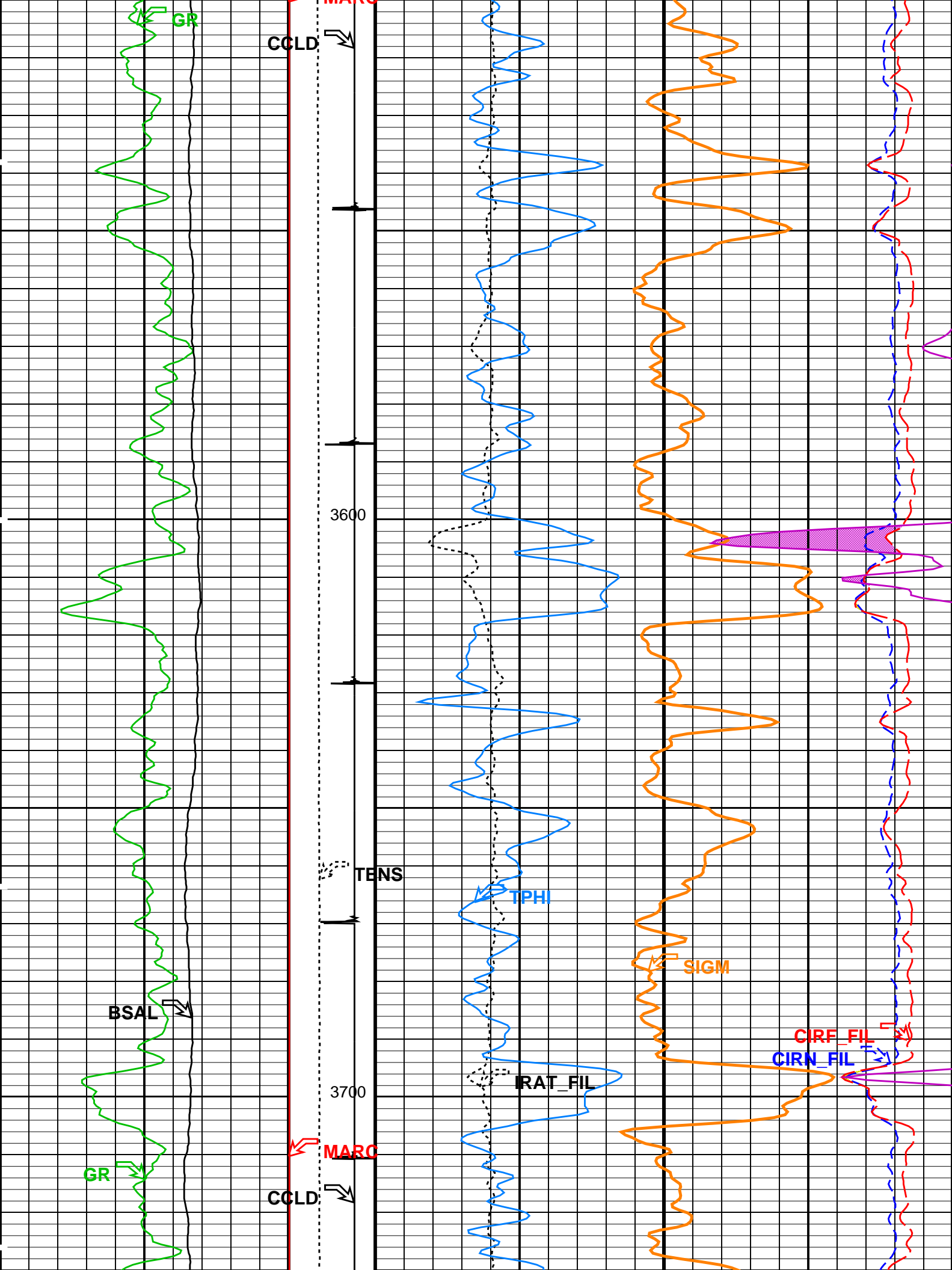
**Crossover in sand**  
From RST CIRF FIL to RST CIRN FIL

## WINR Gas Flag

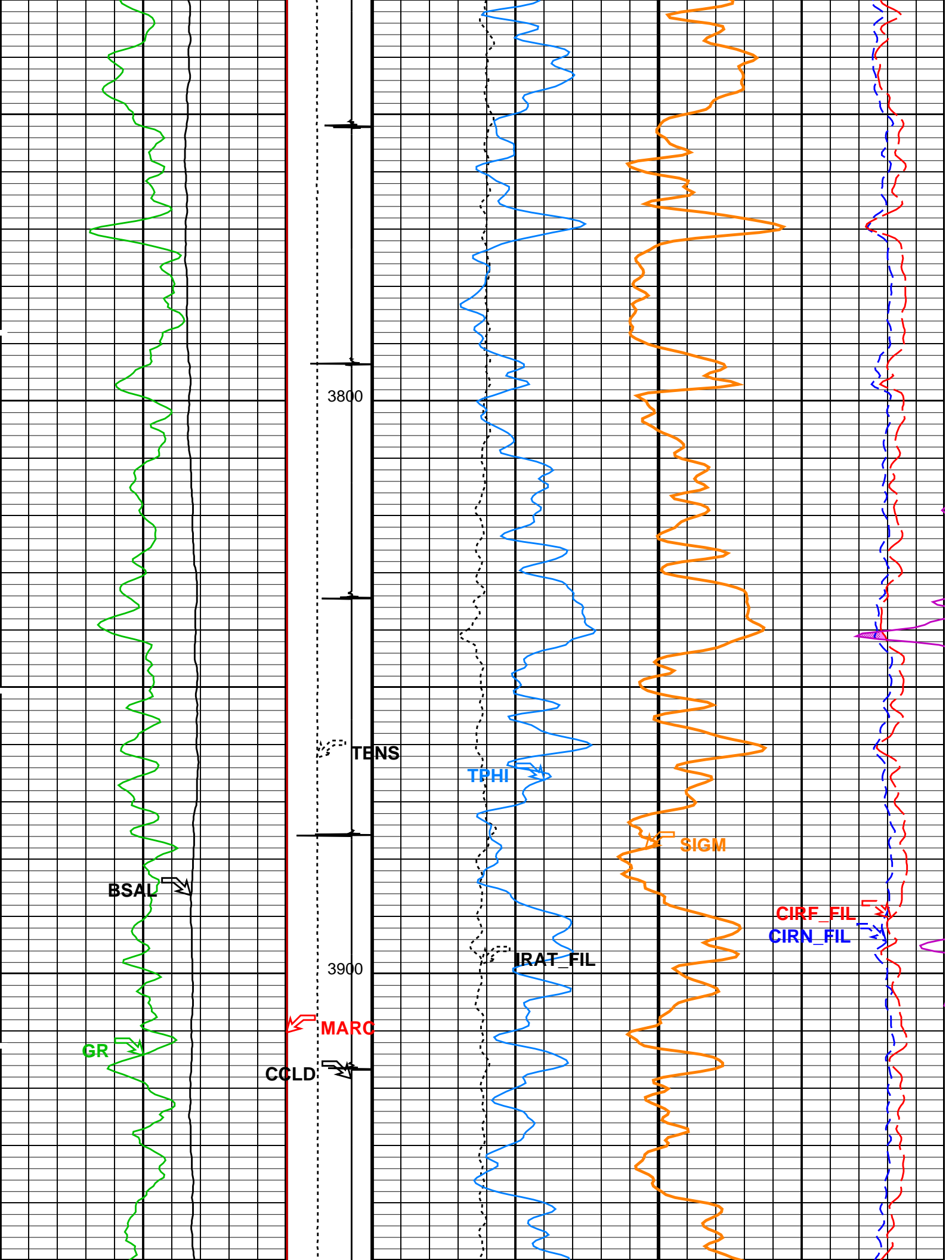


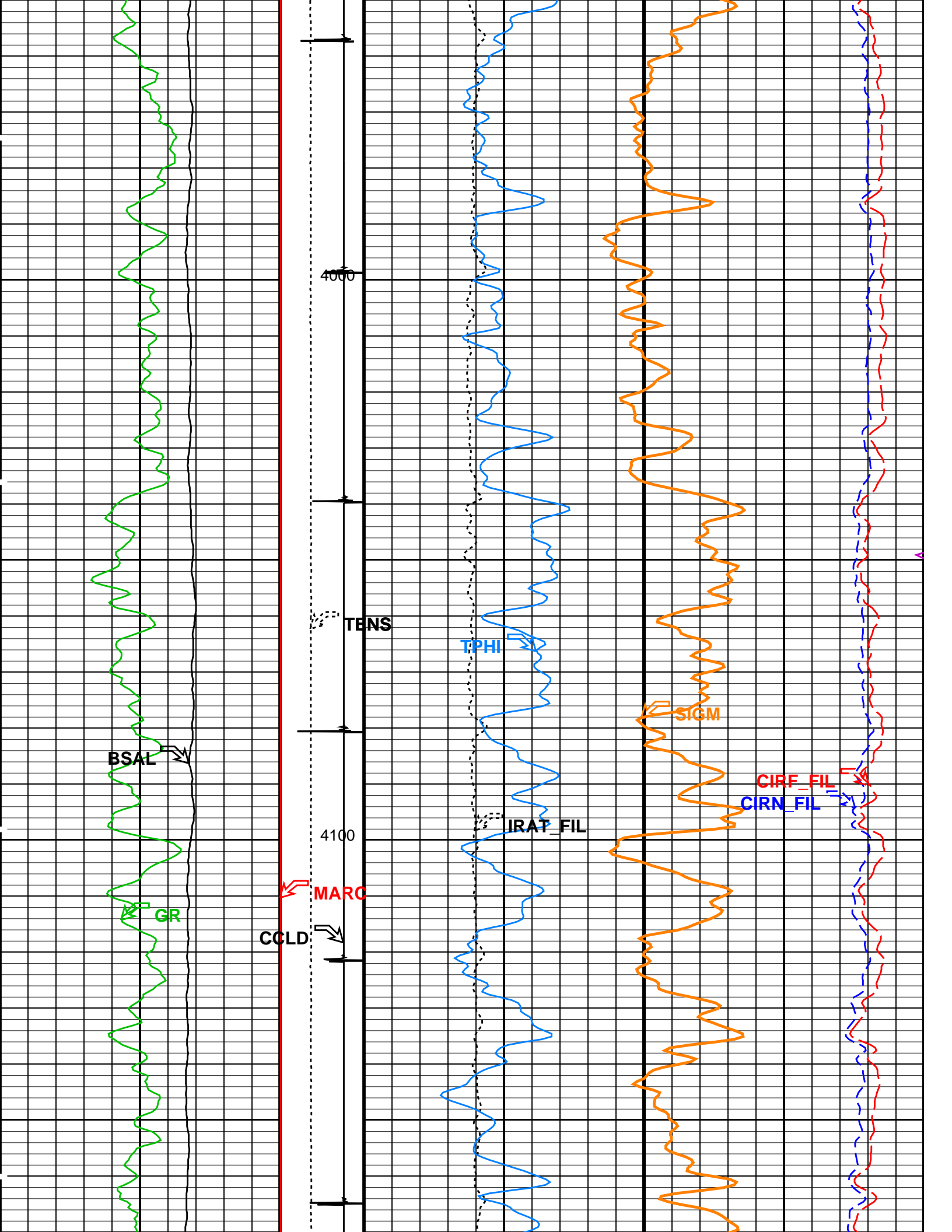


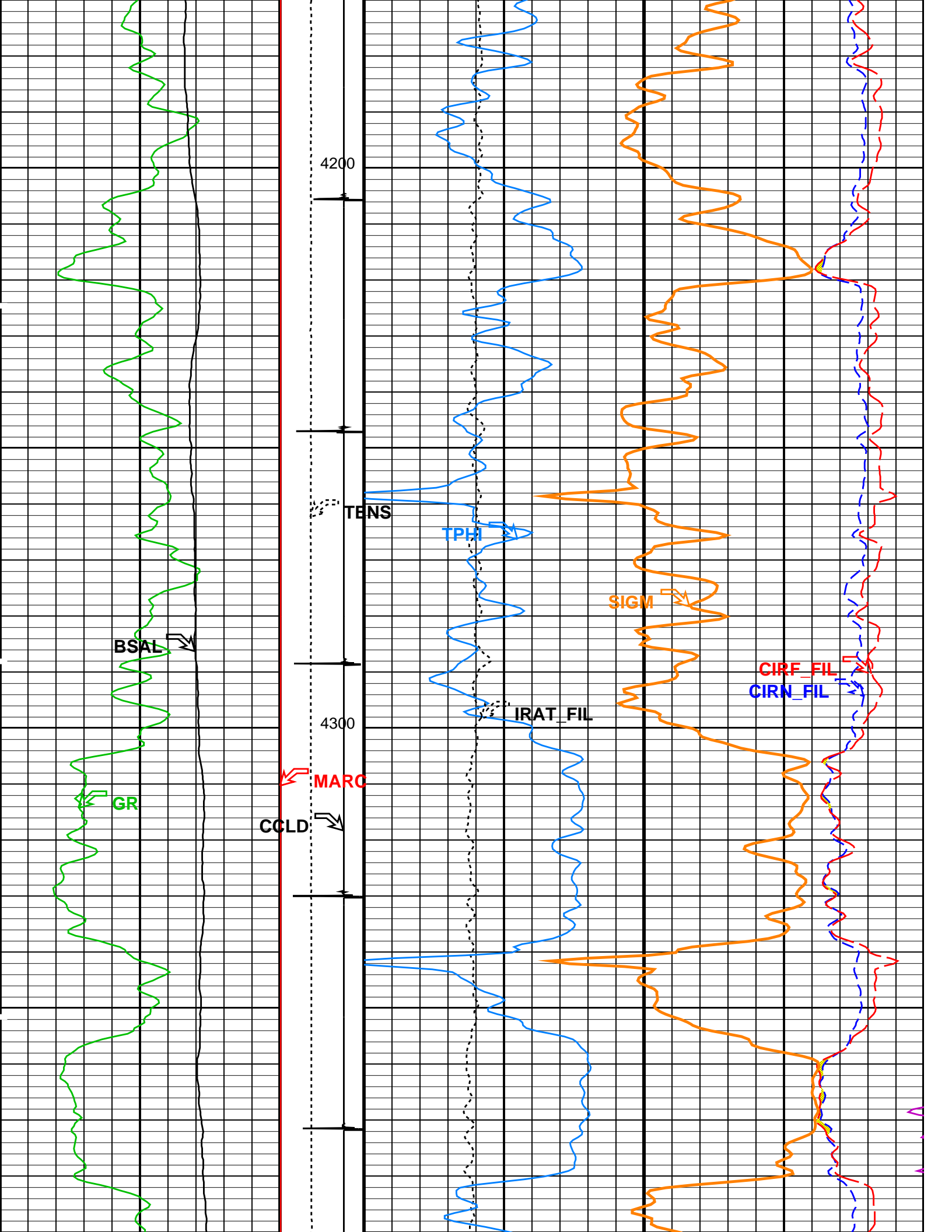


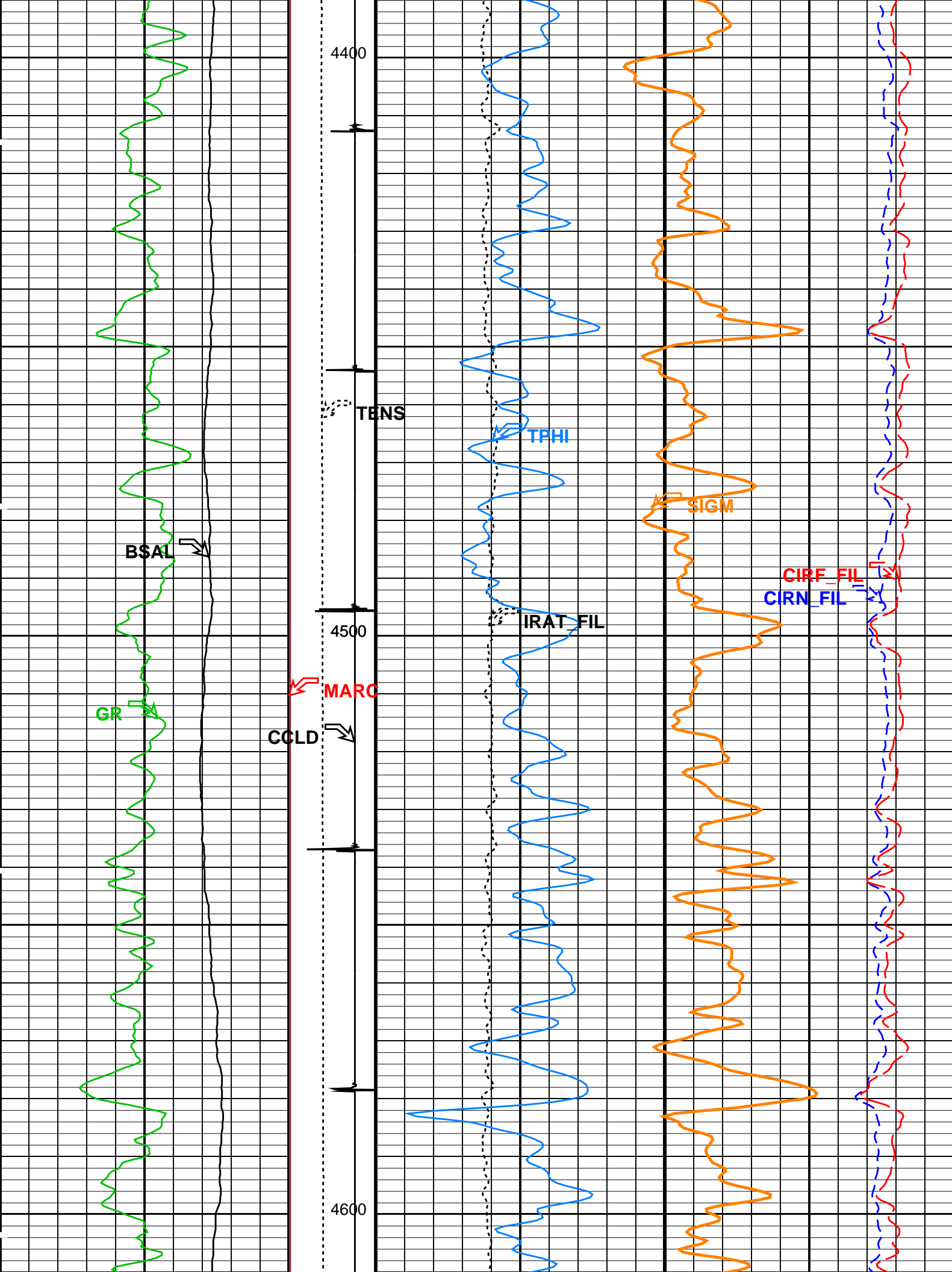


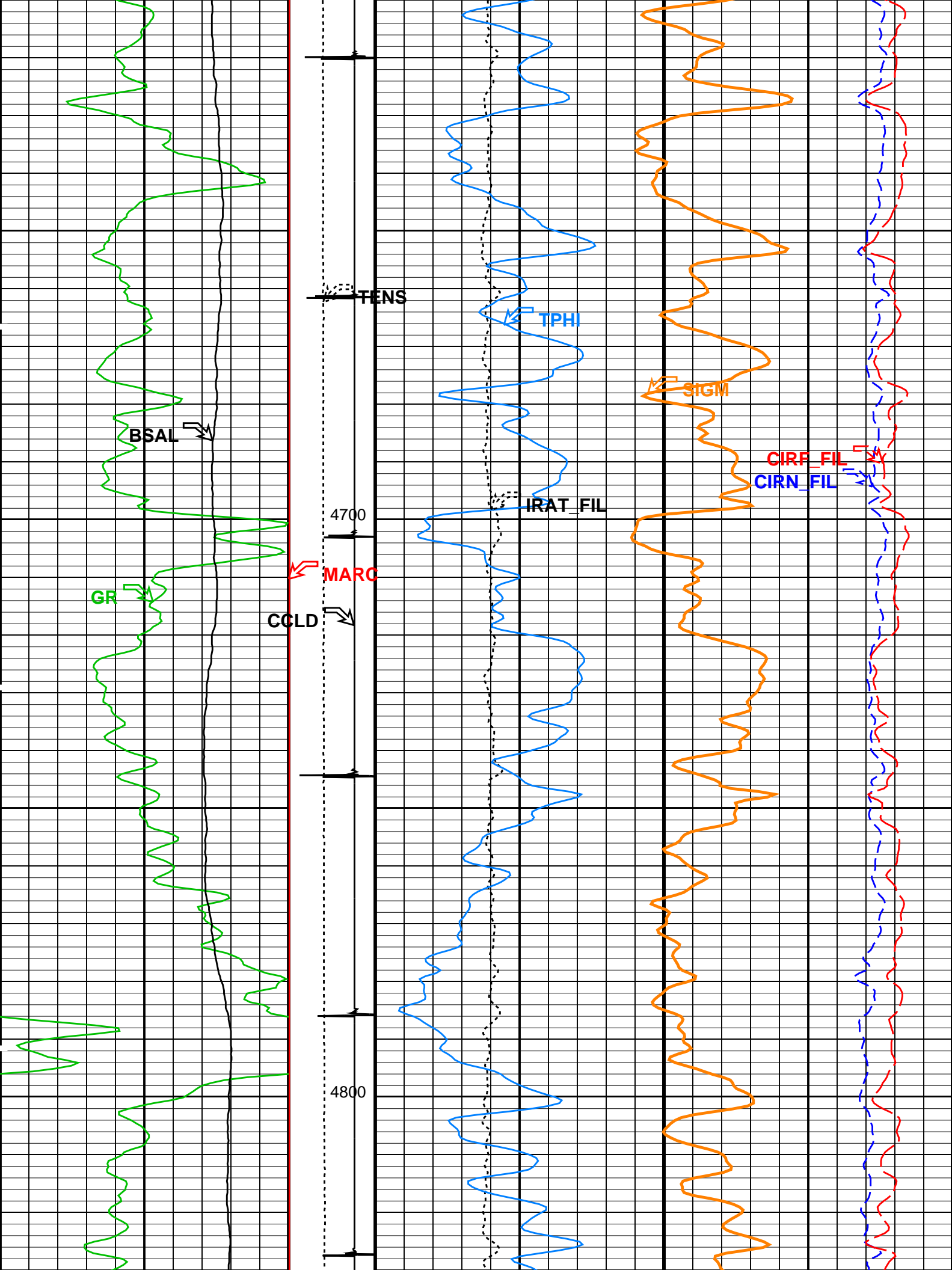


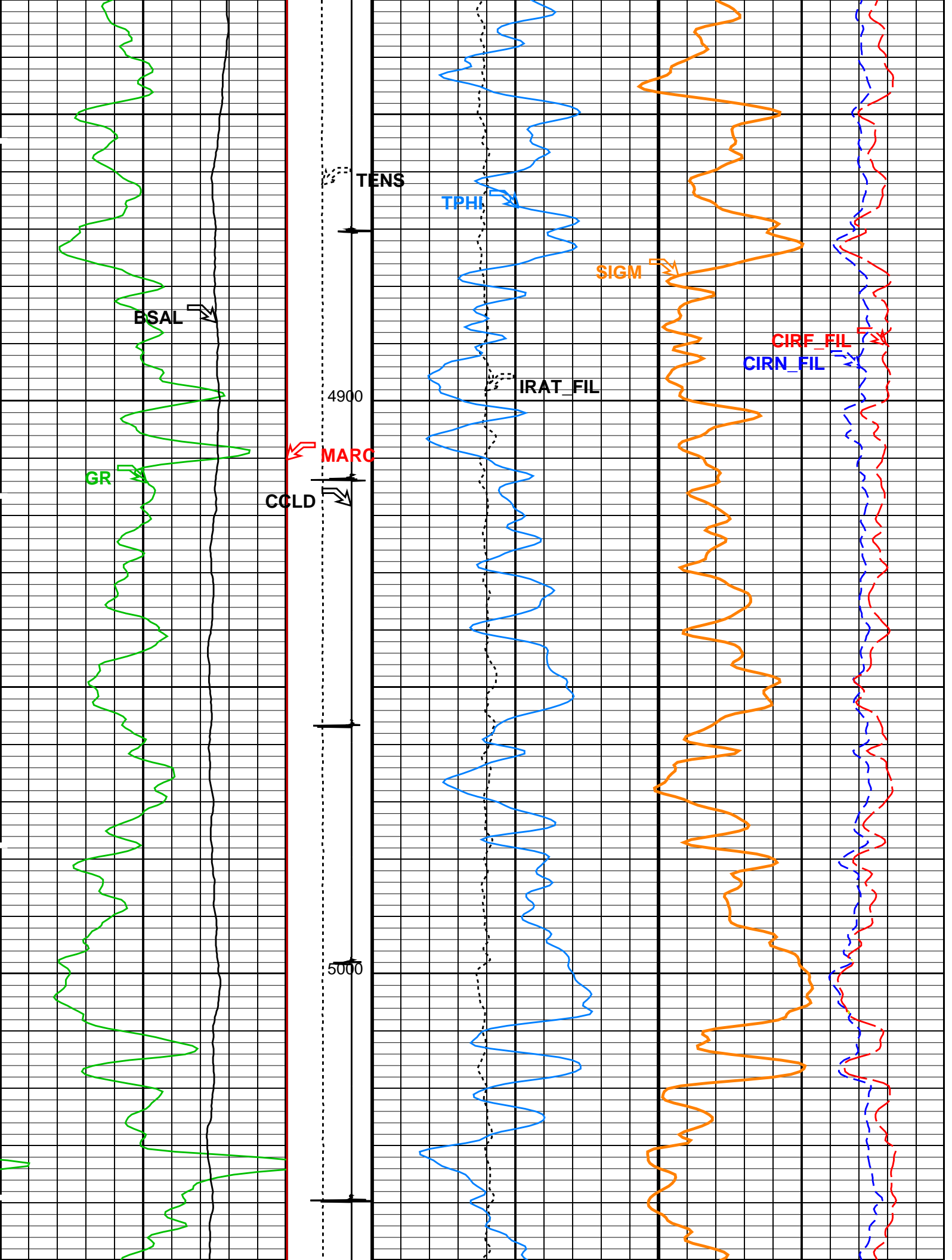


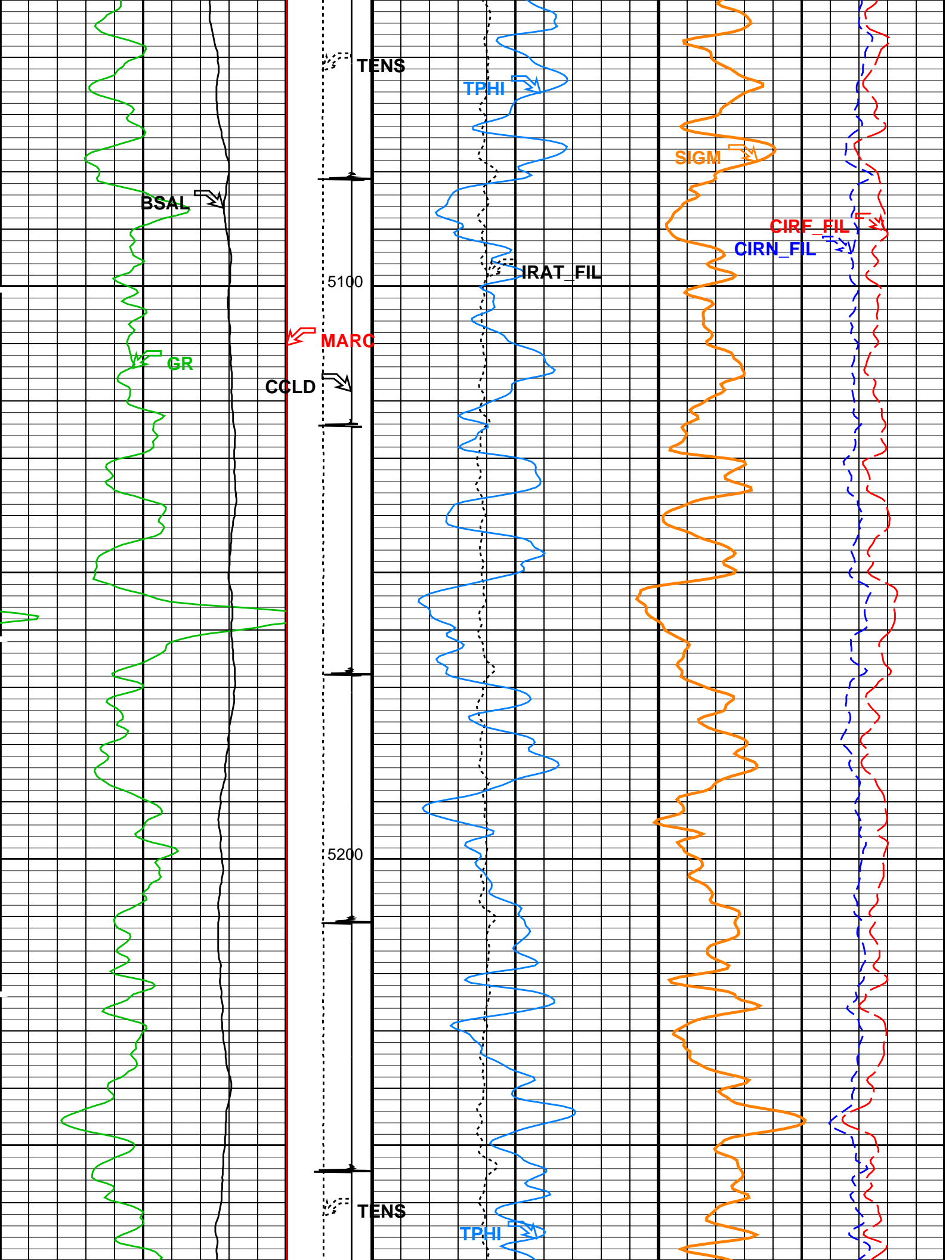


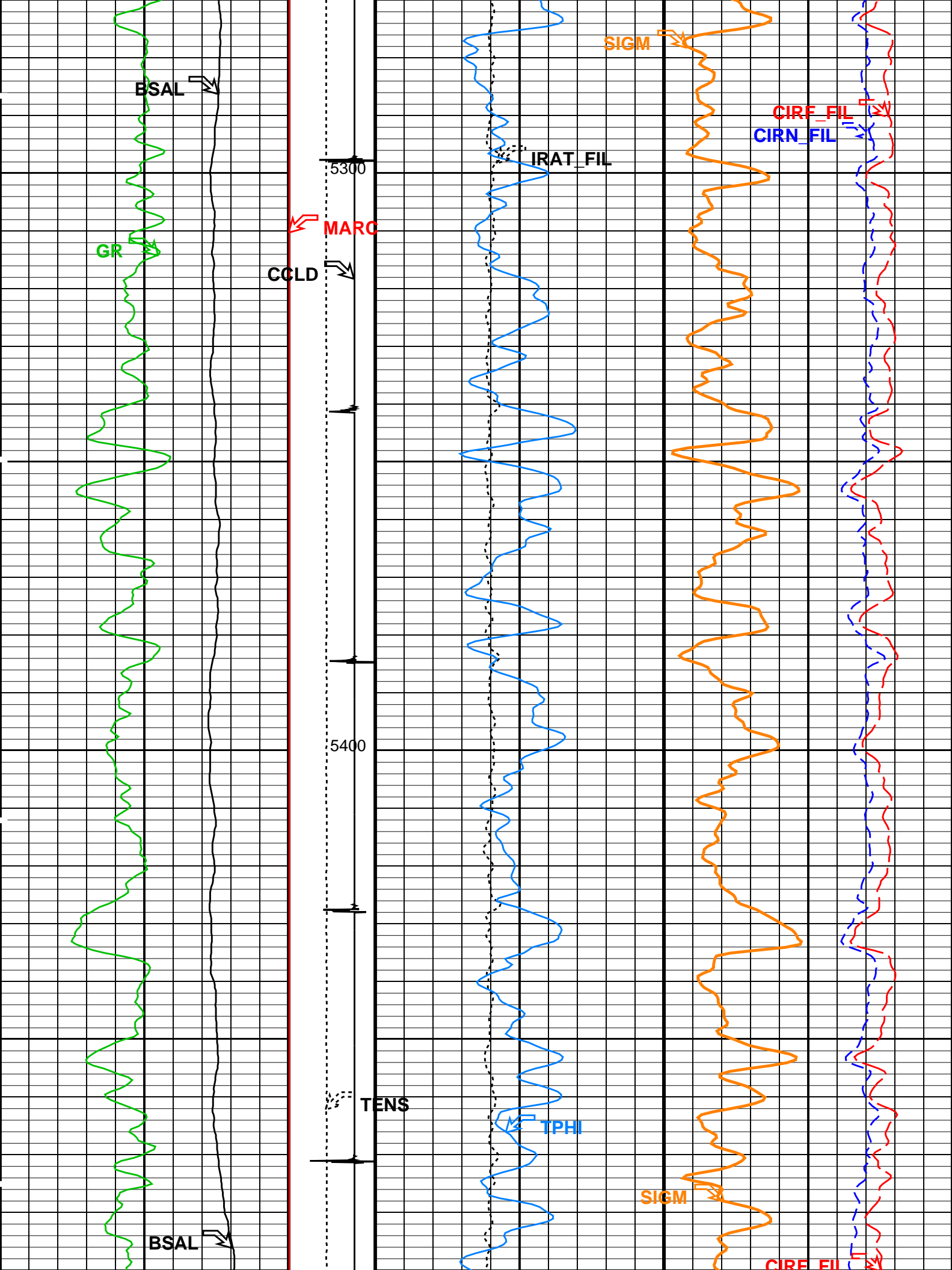




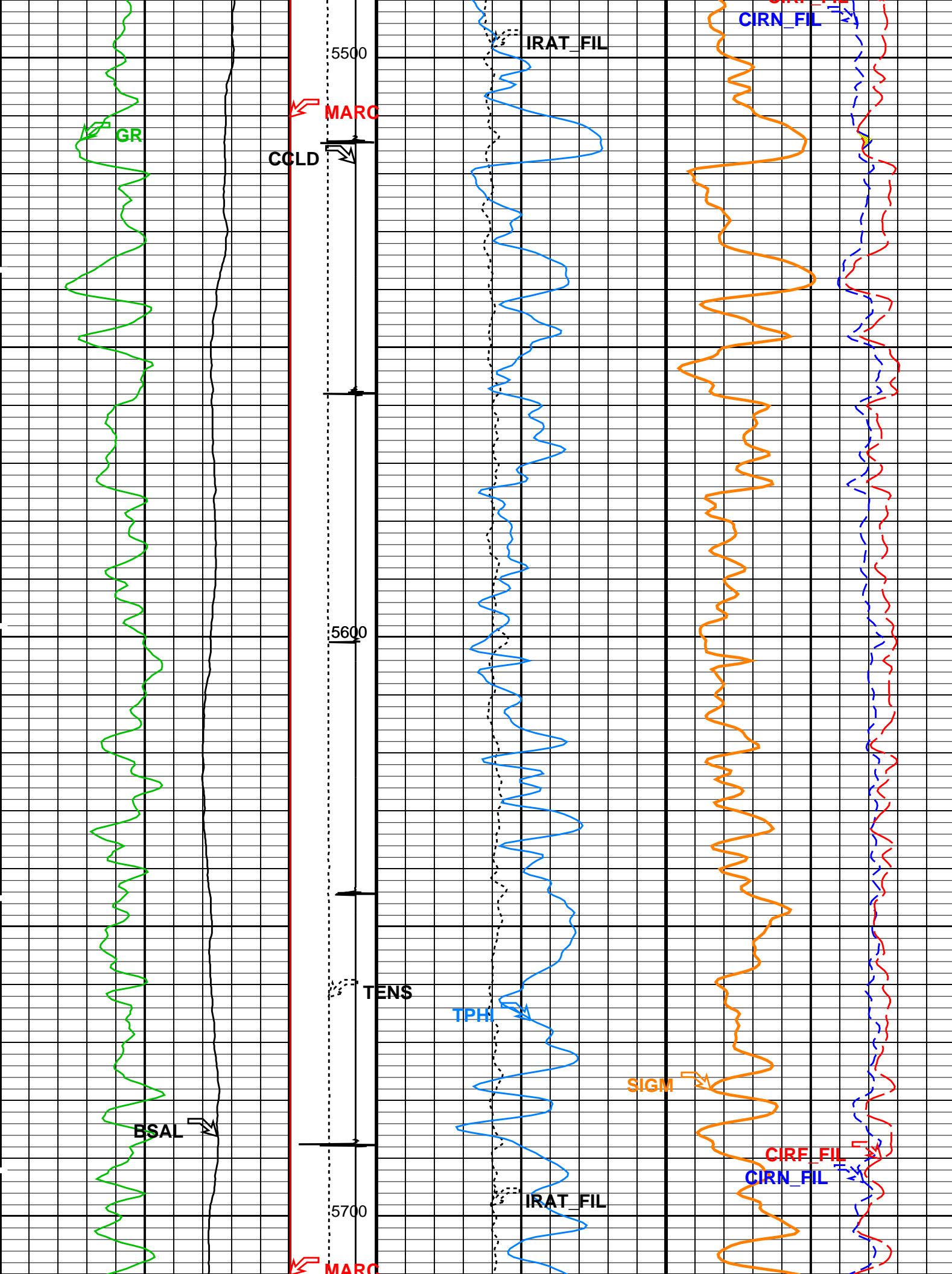


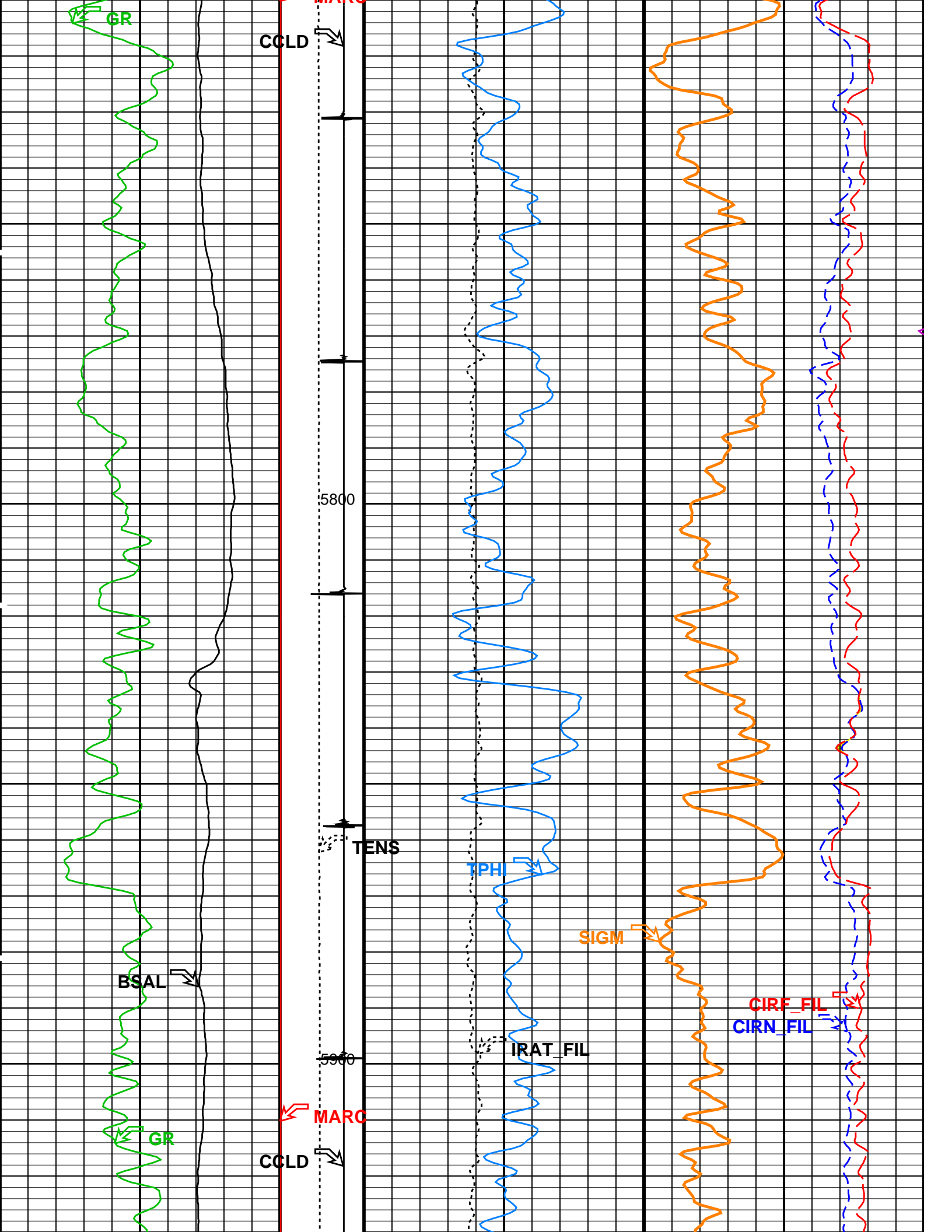


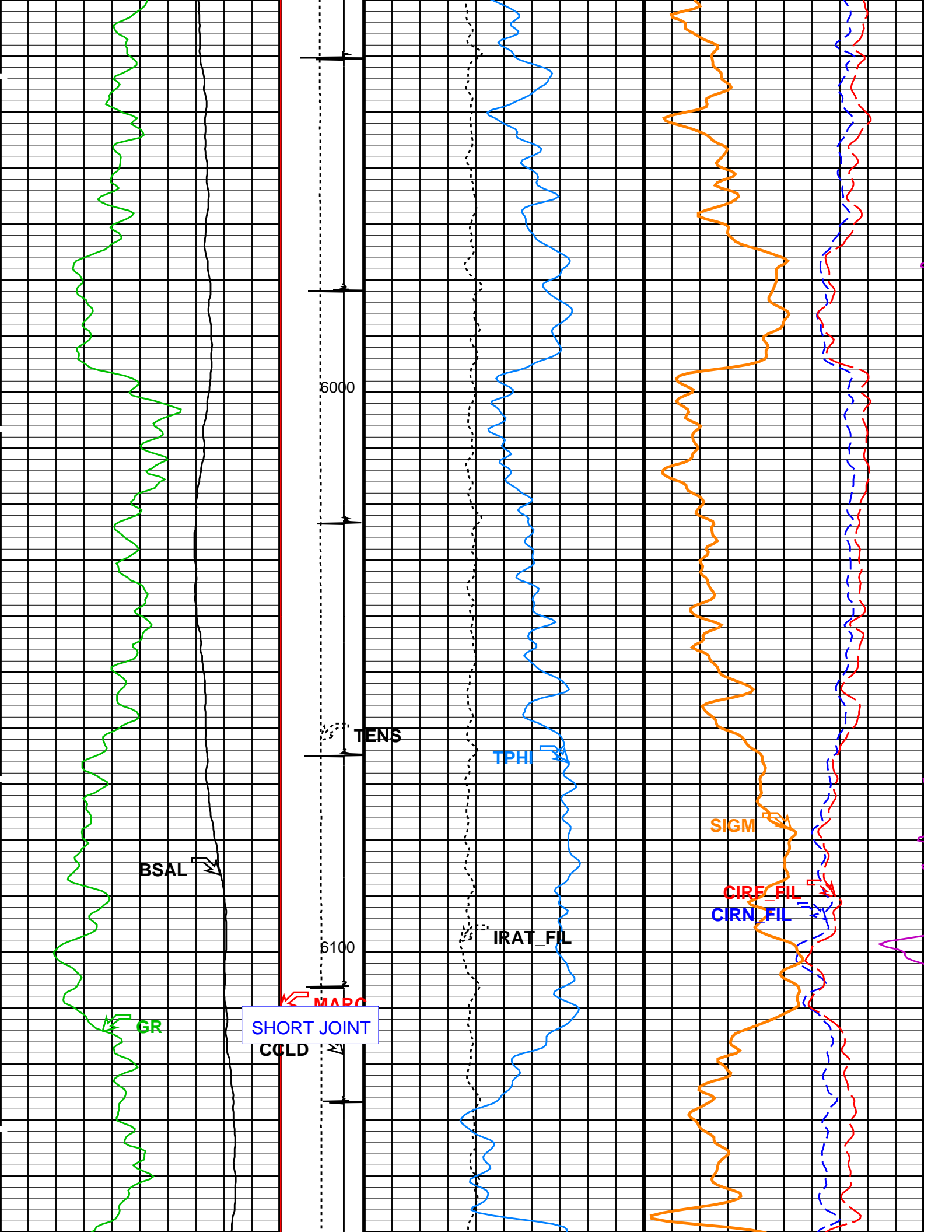


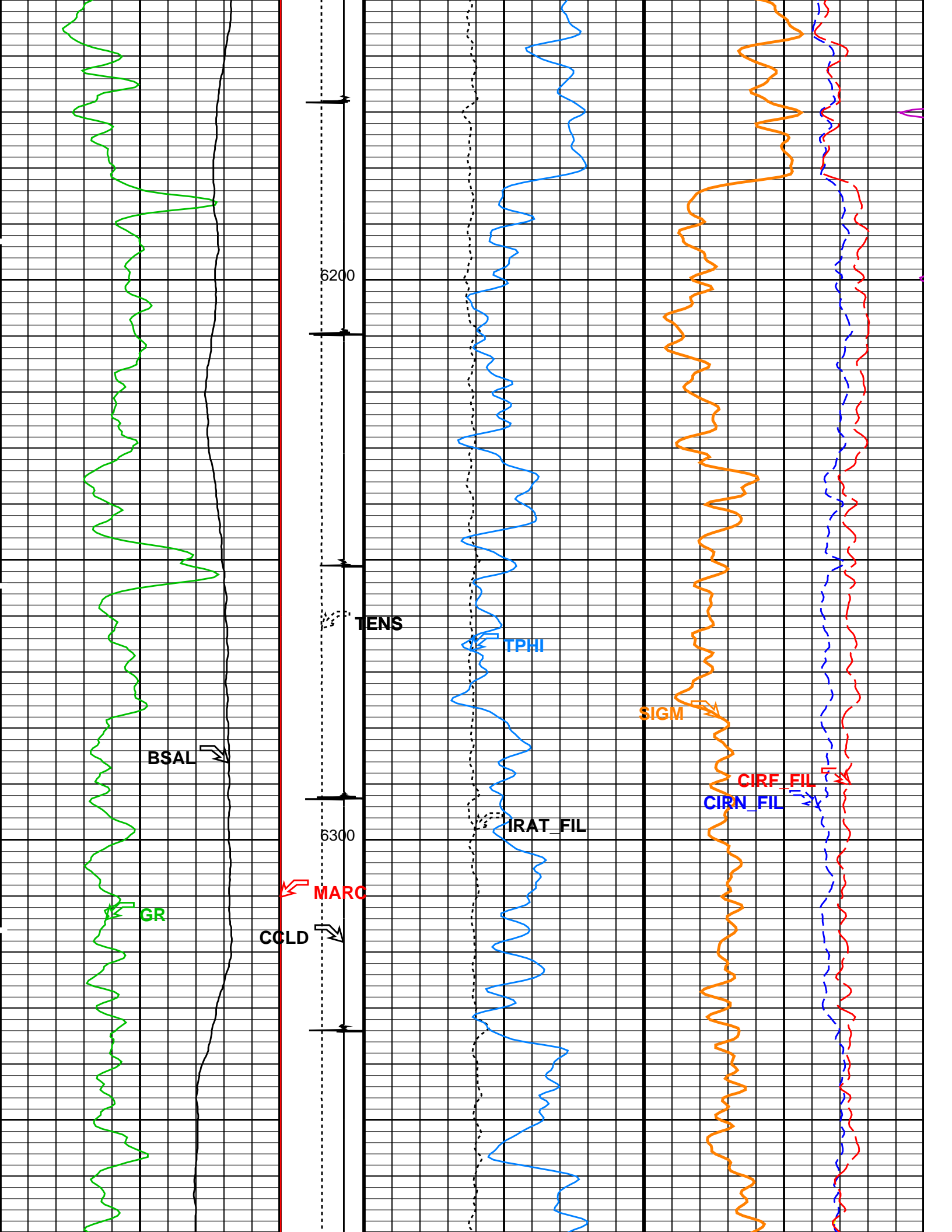


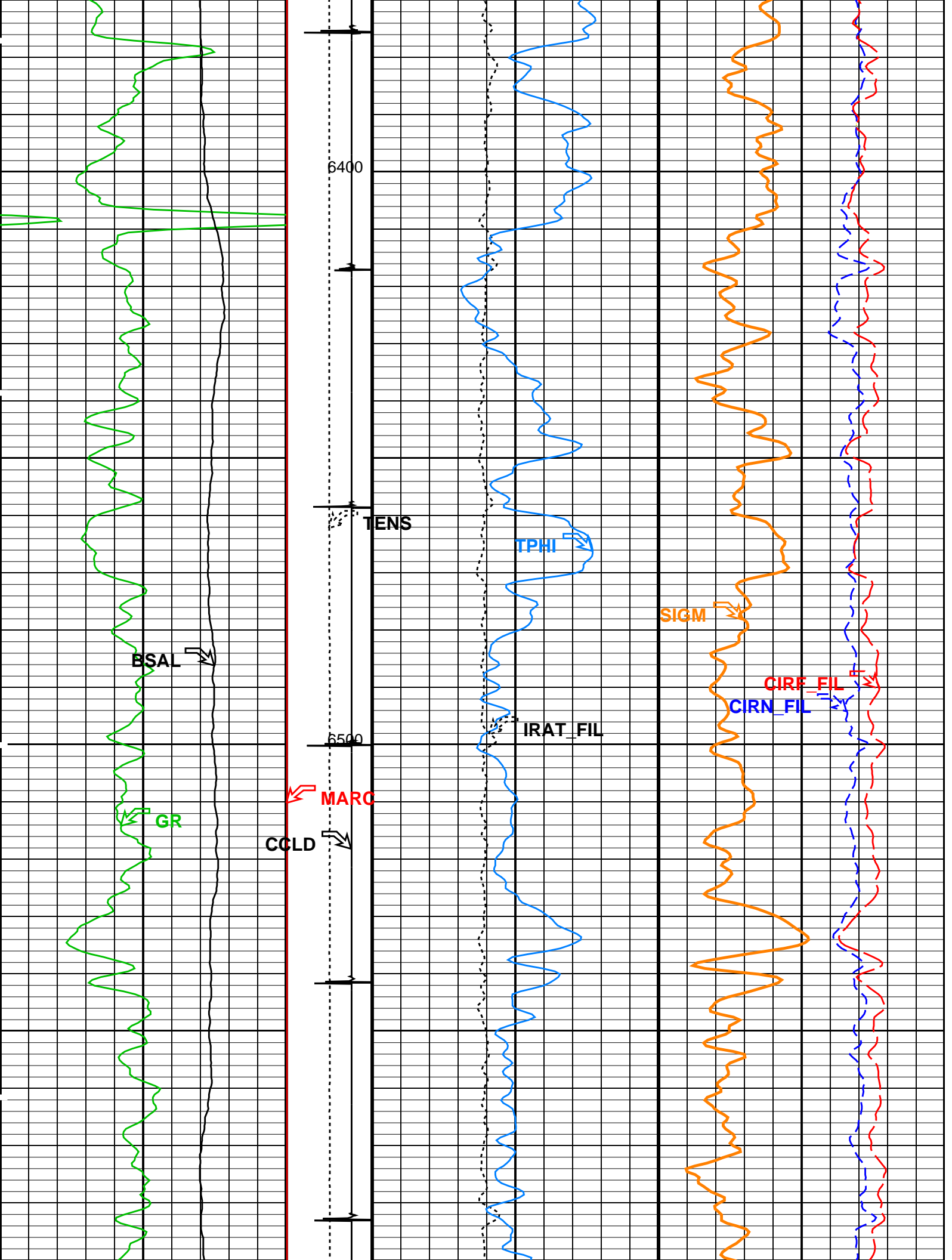


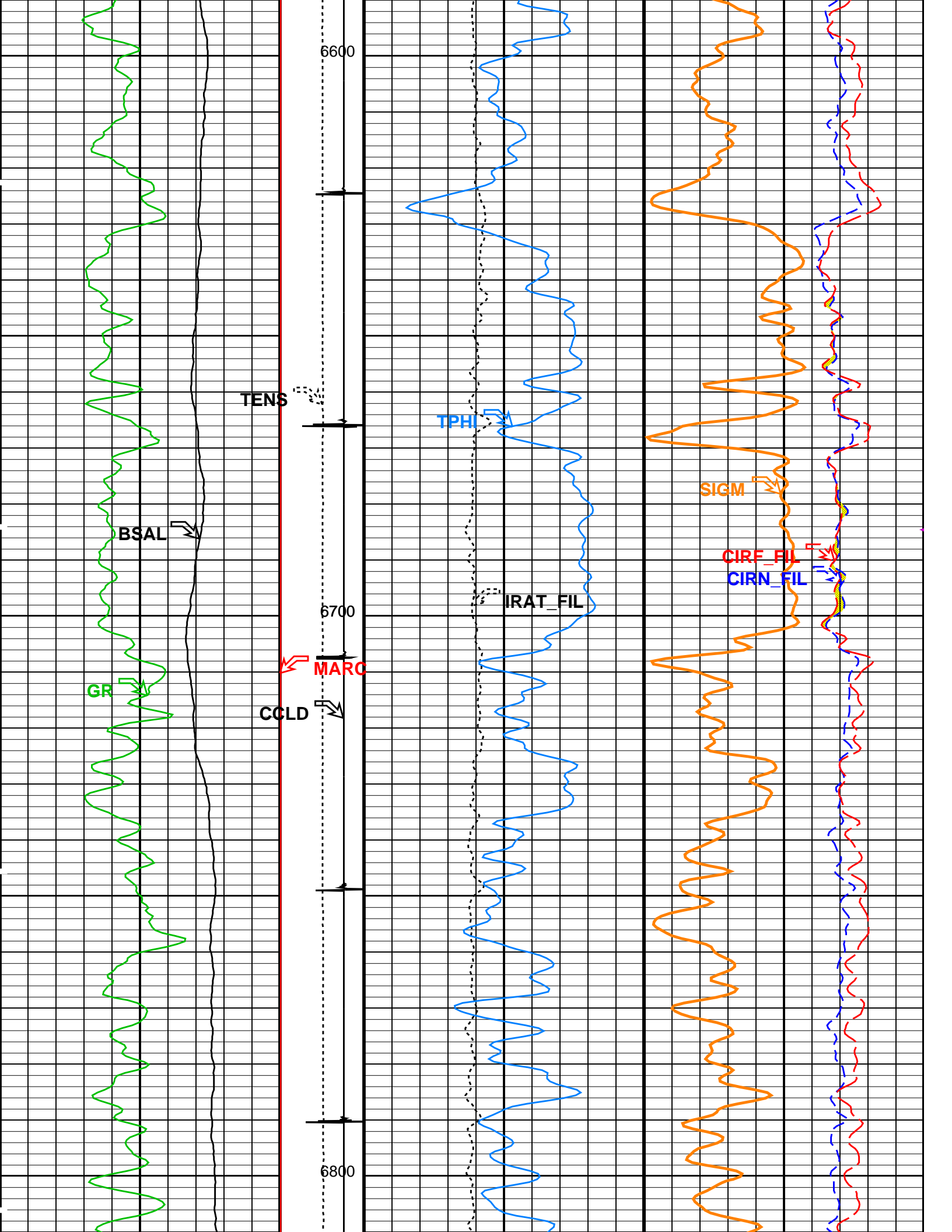


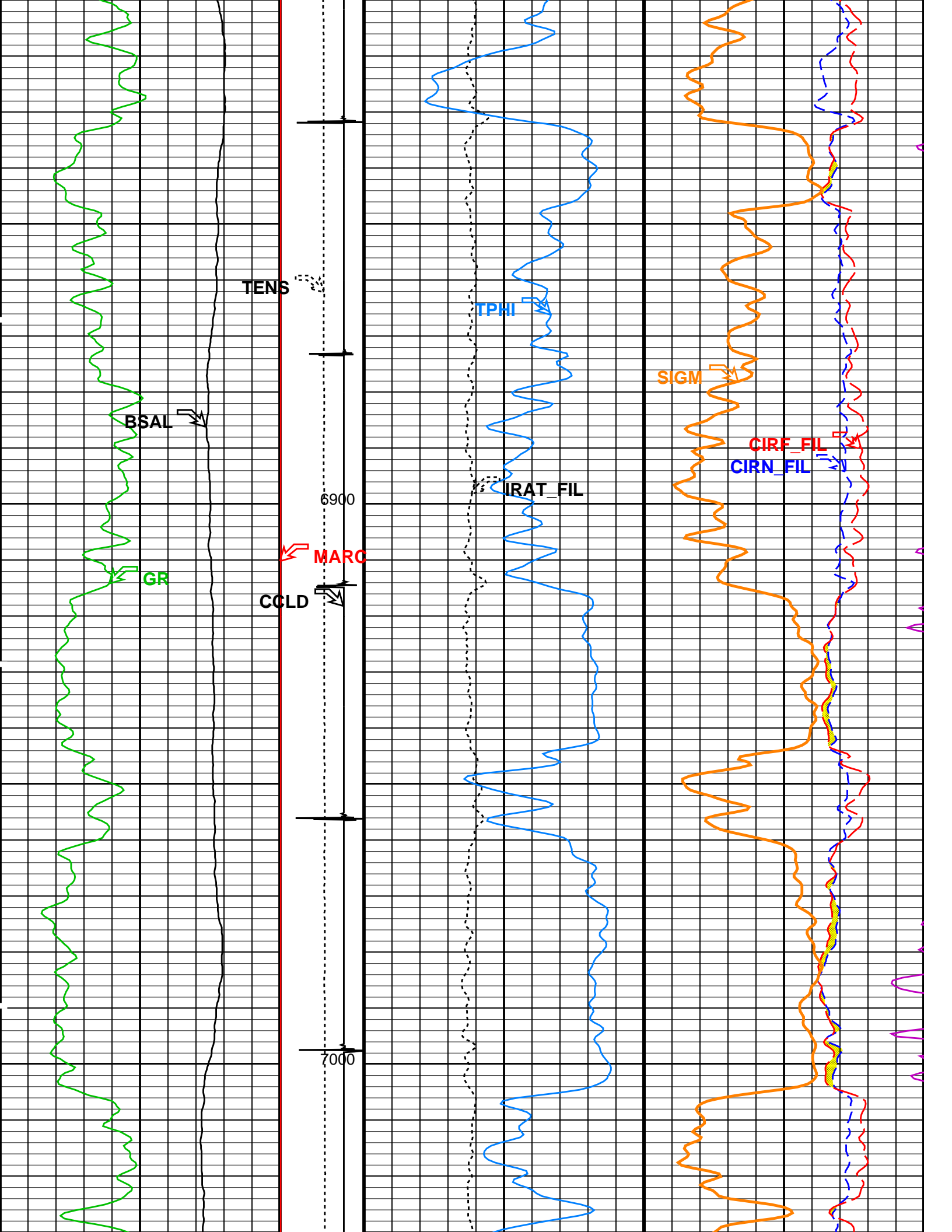


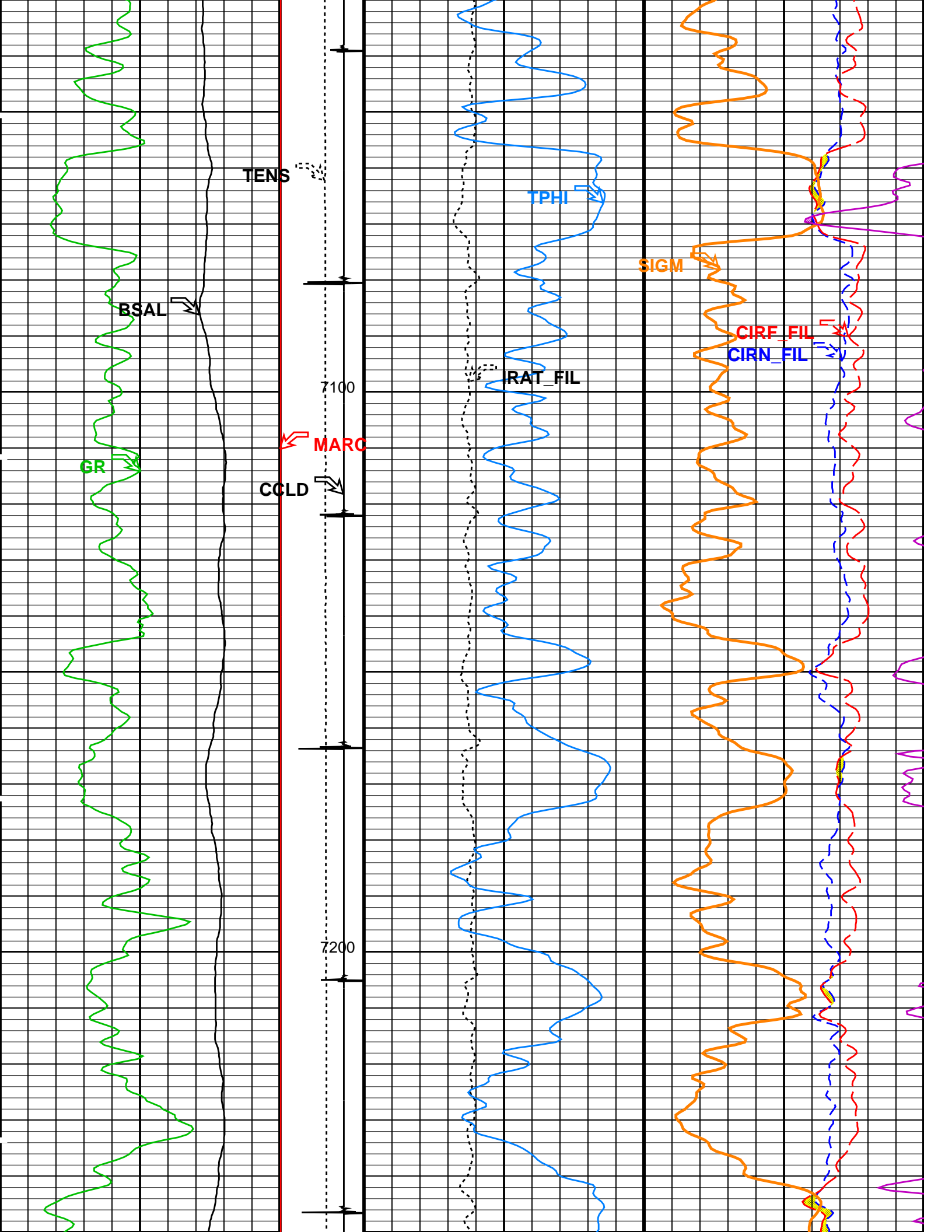




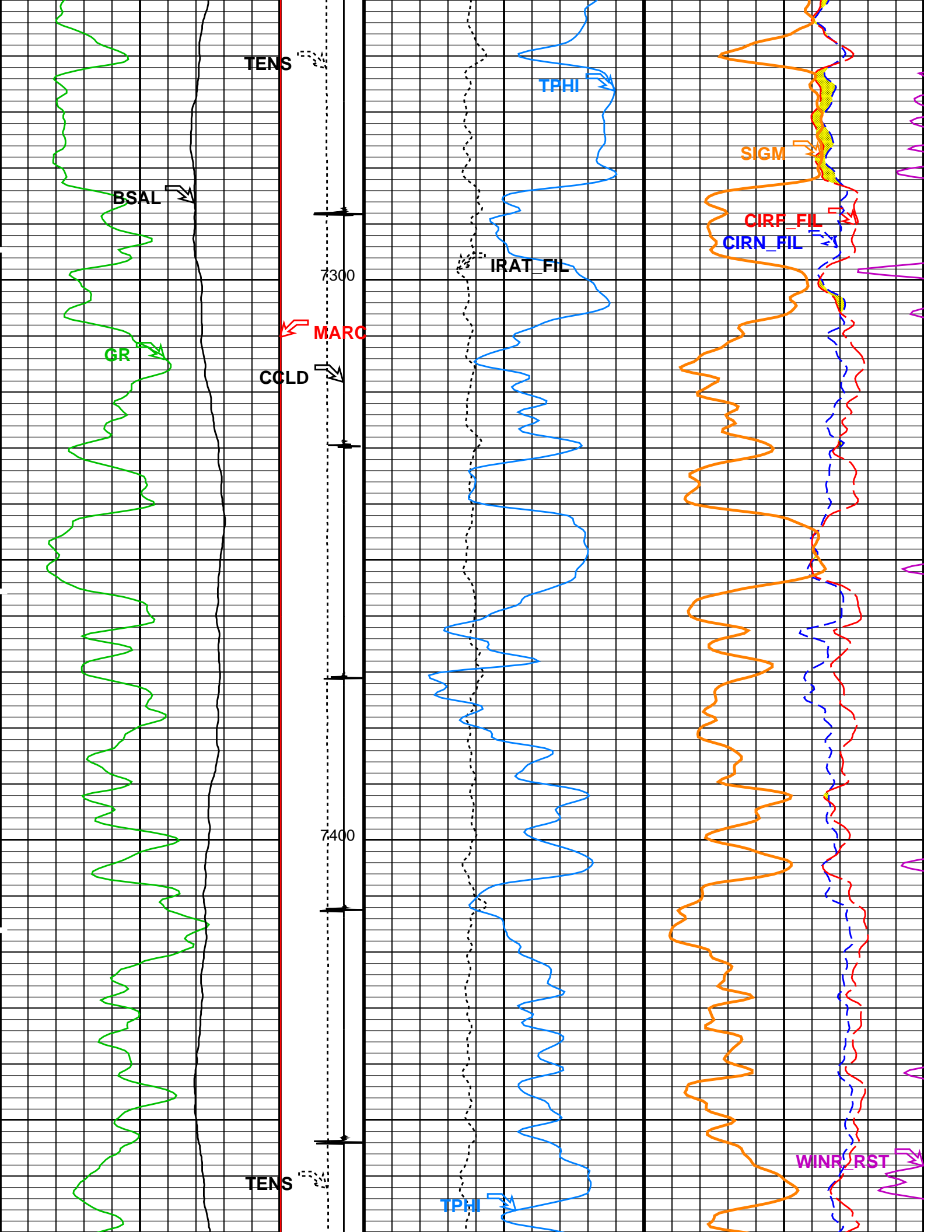


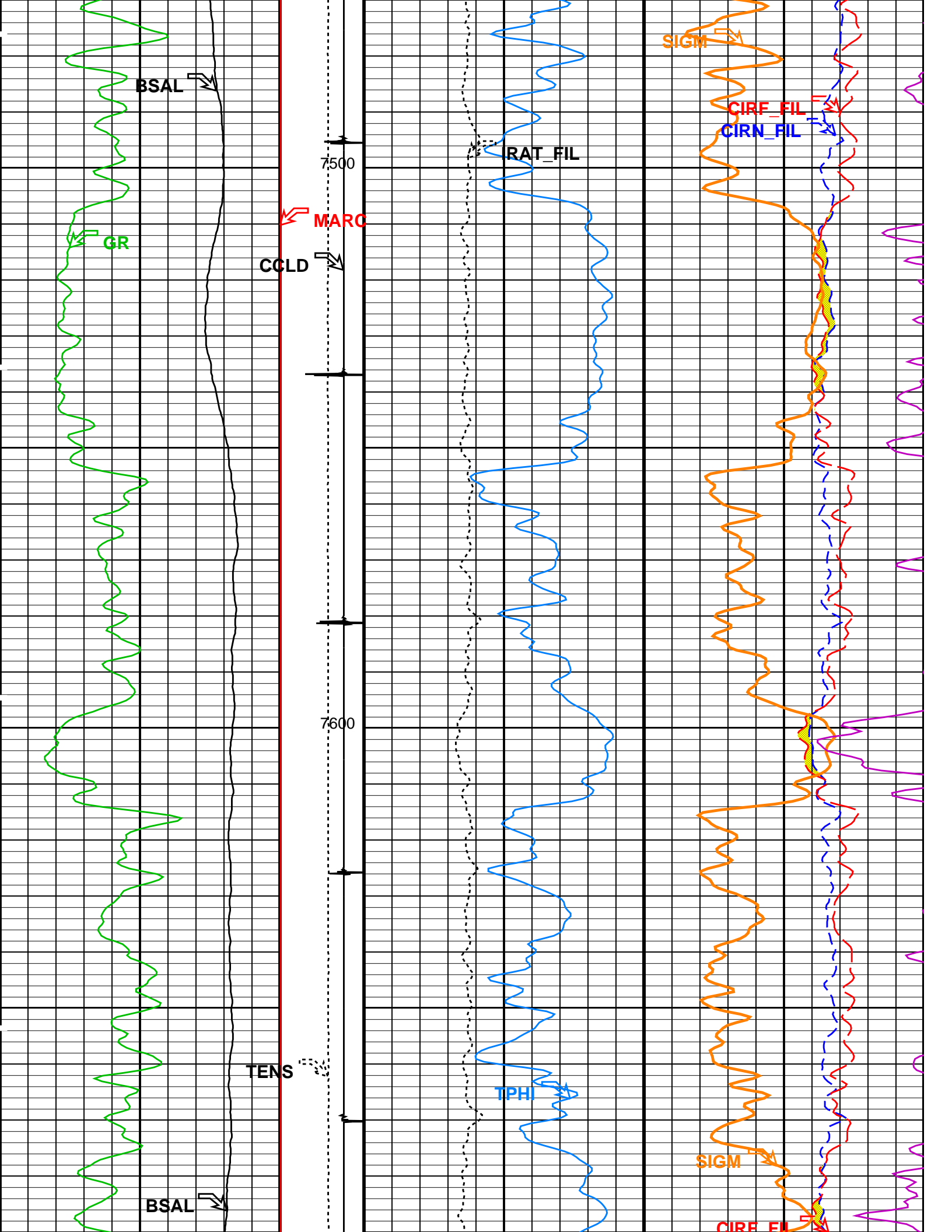


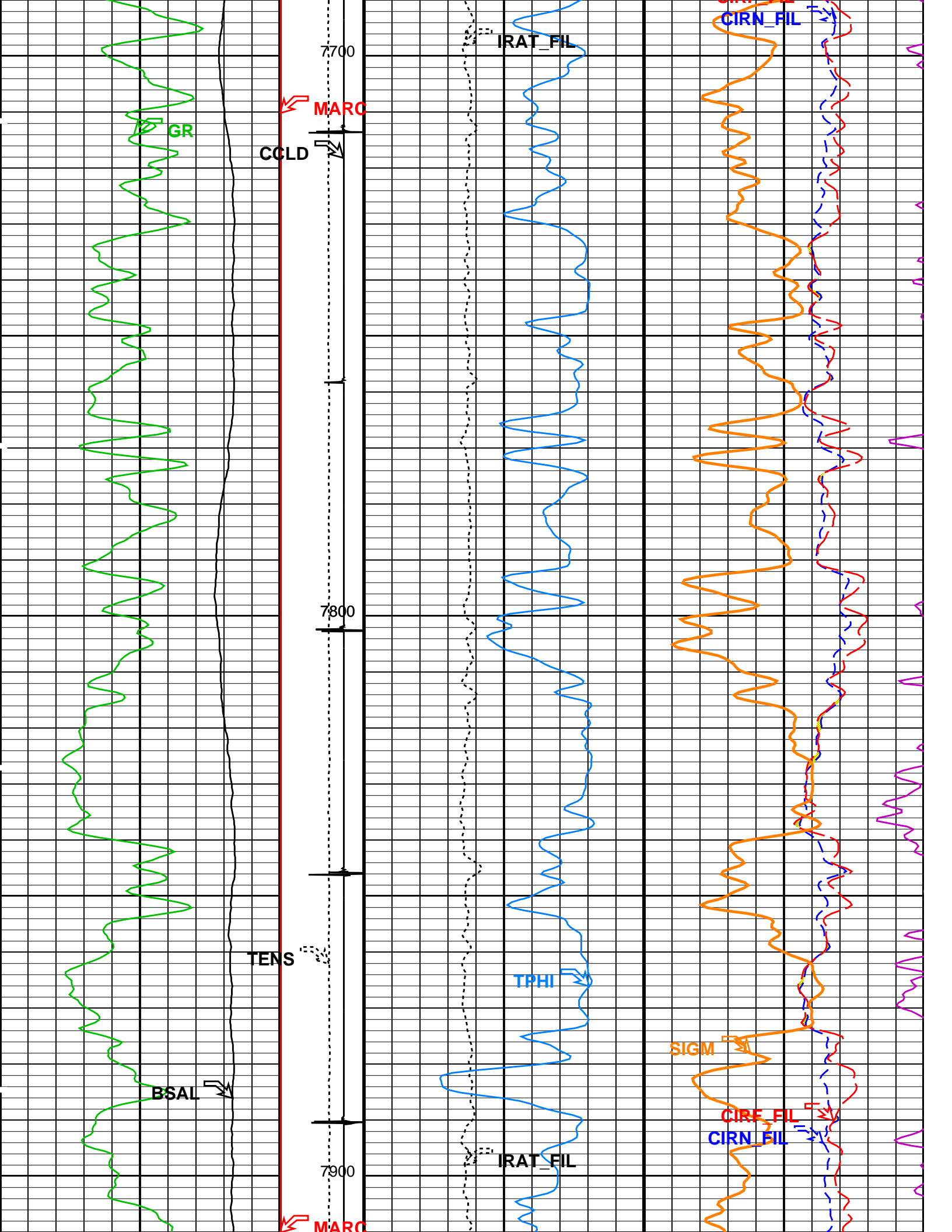


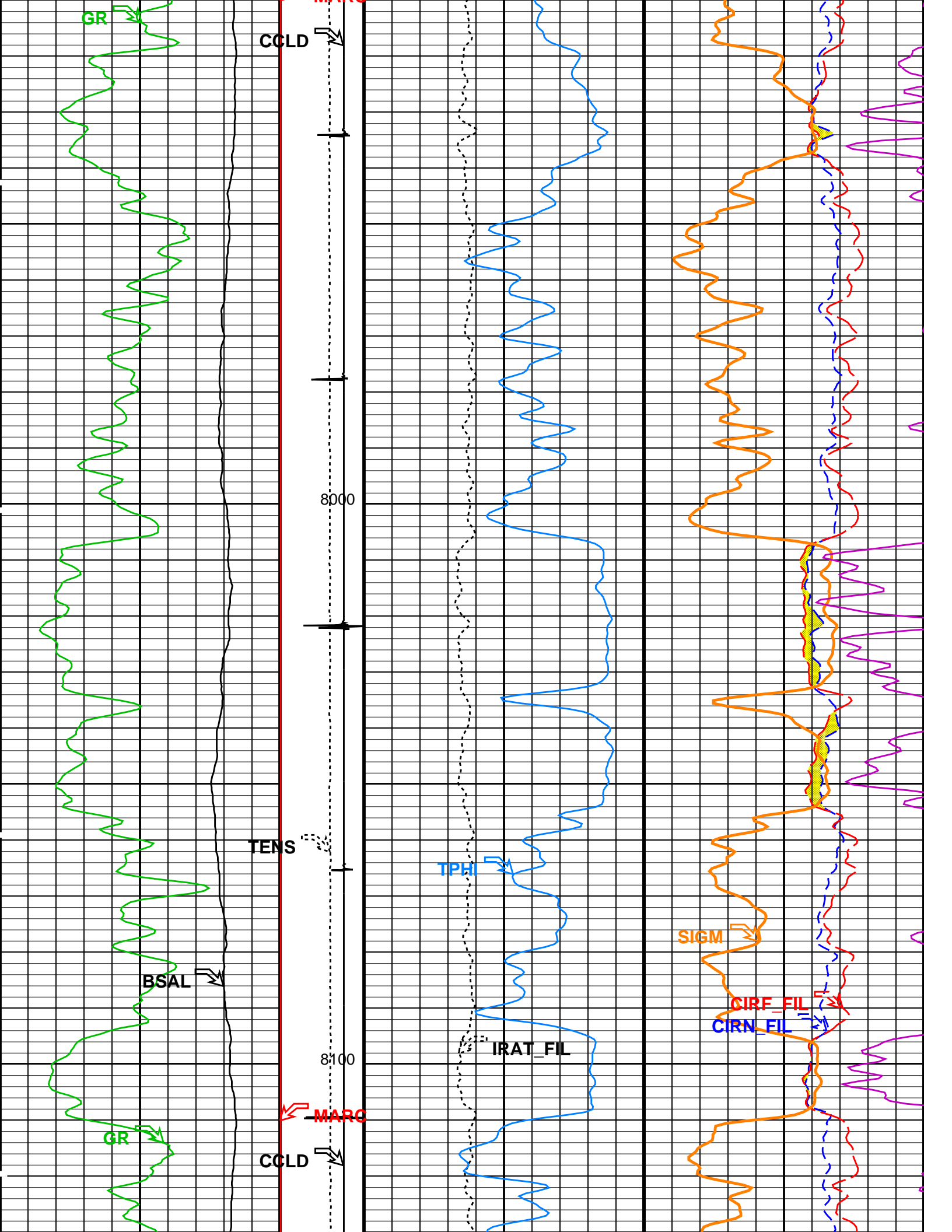


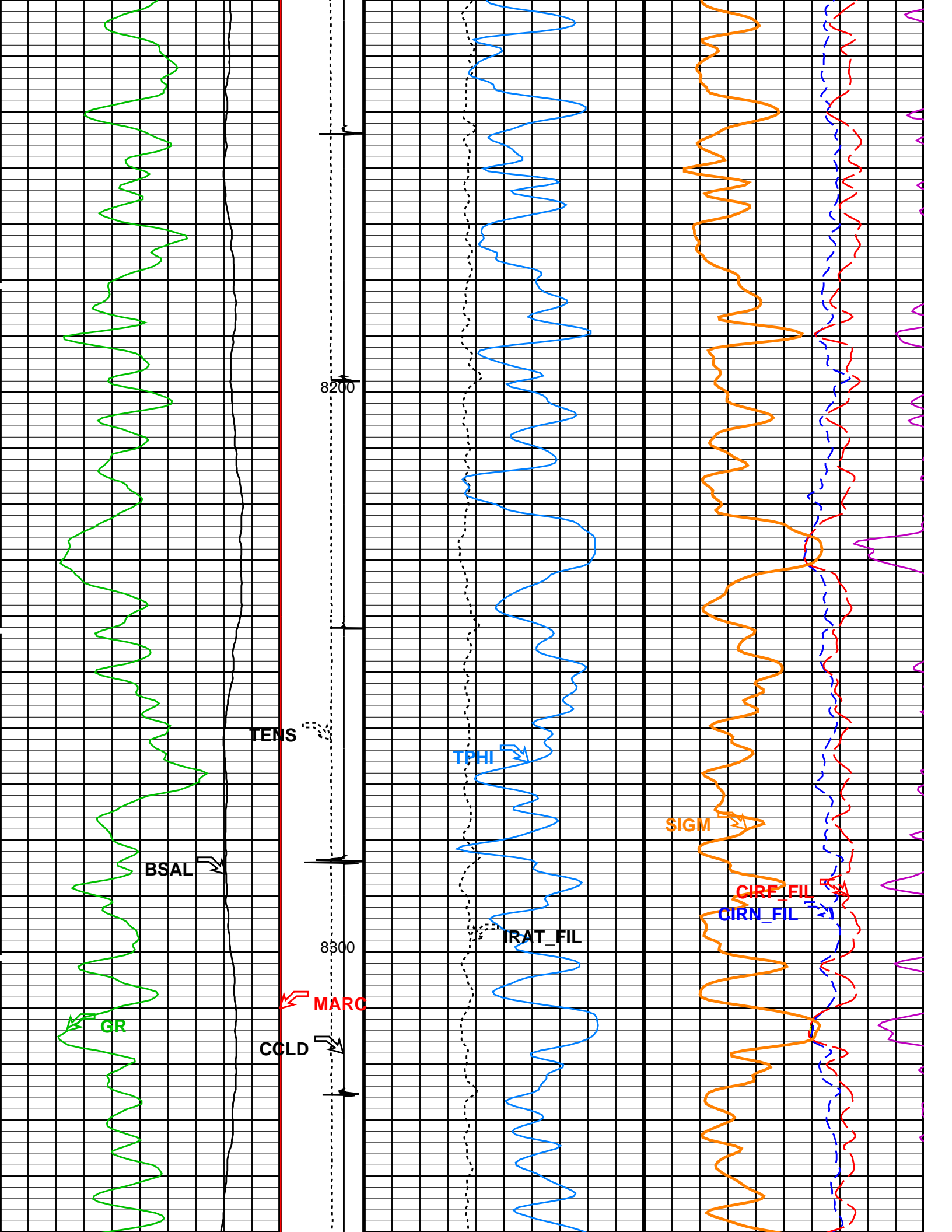


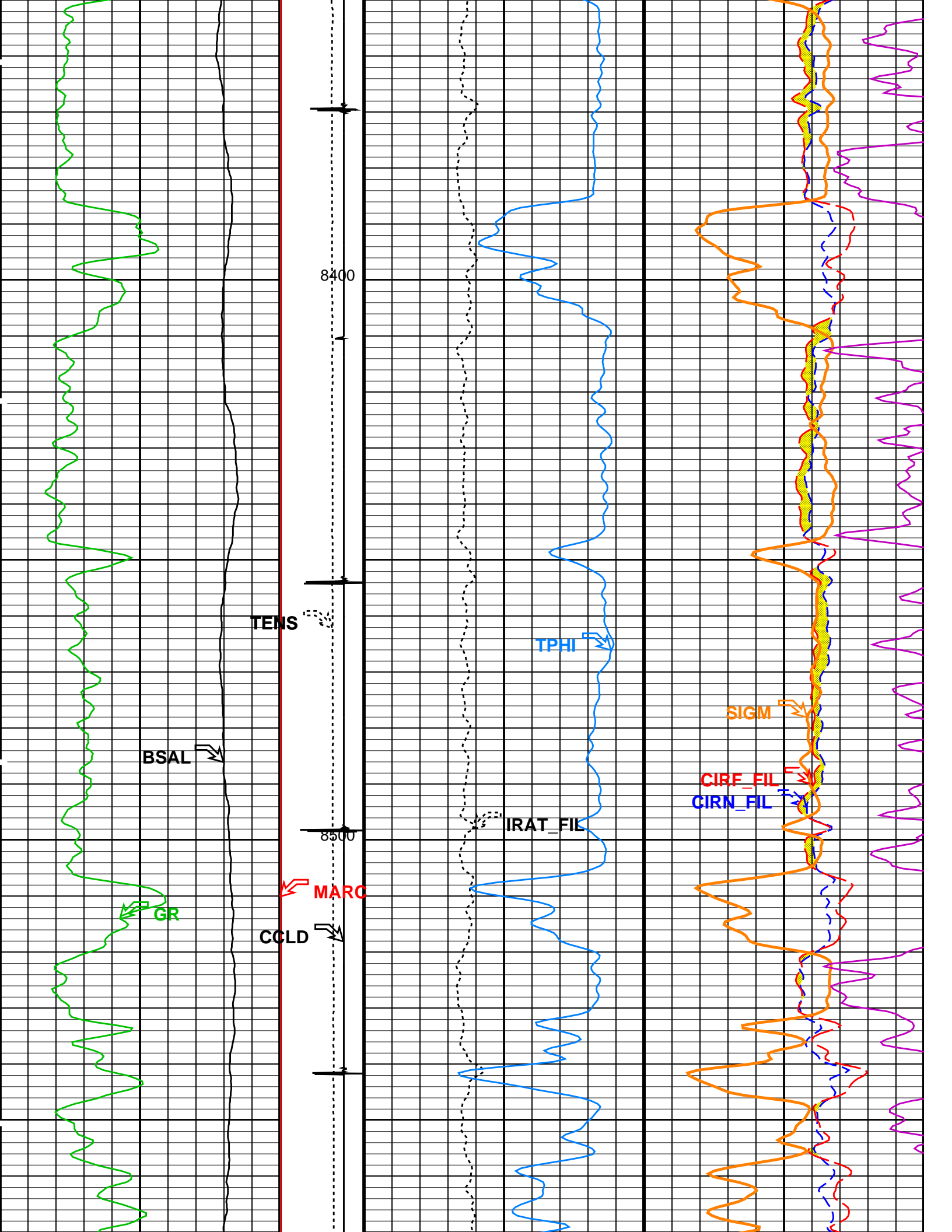


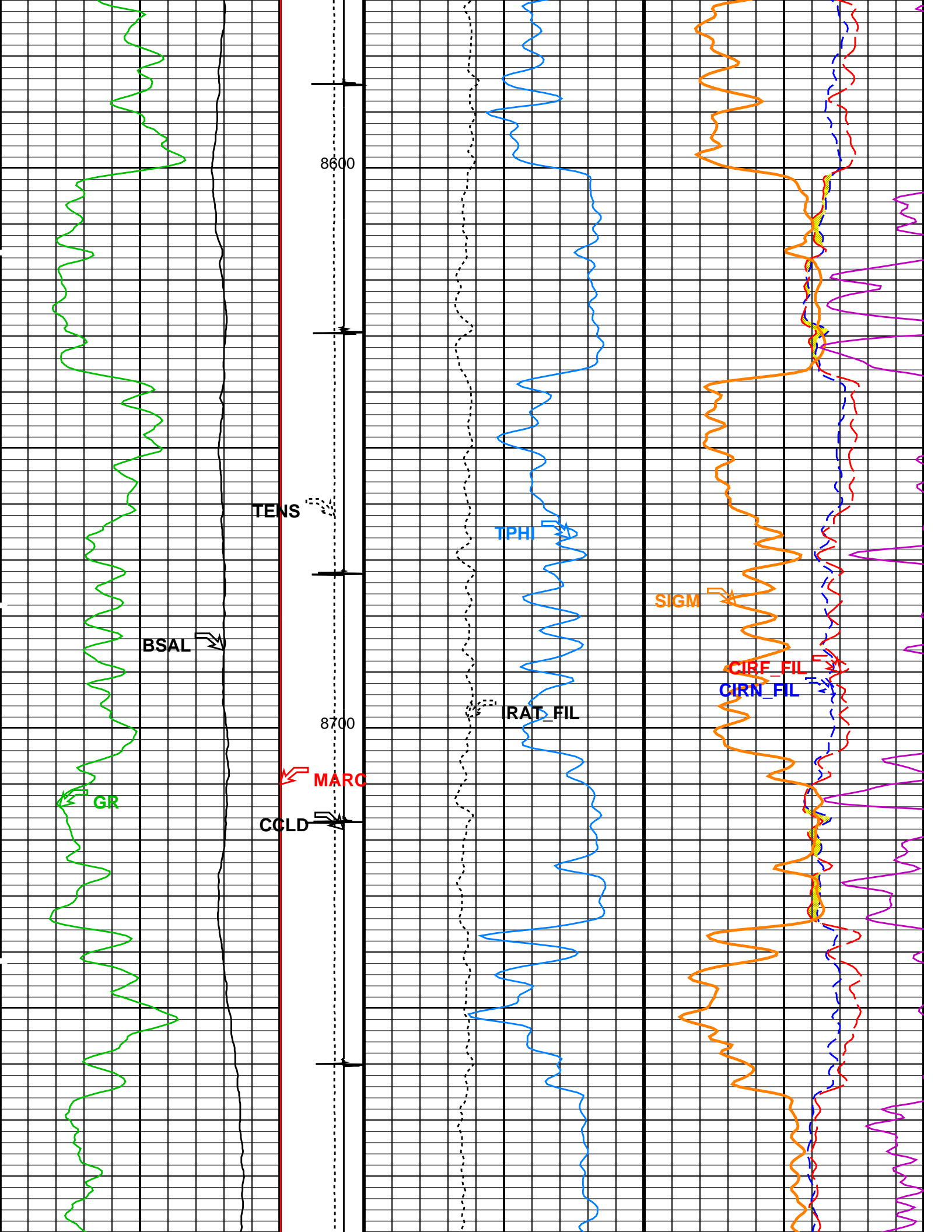


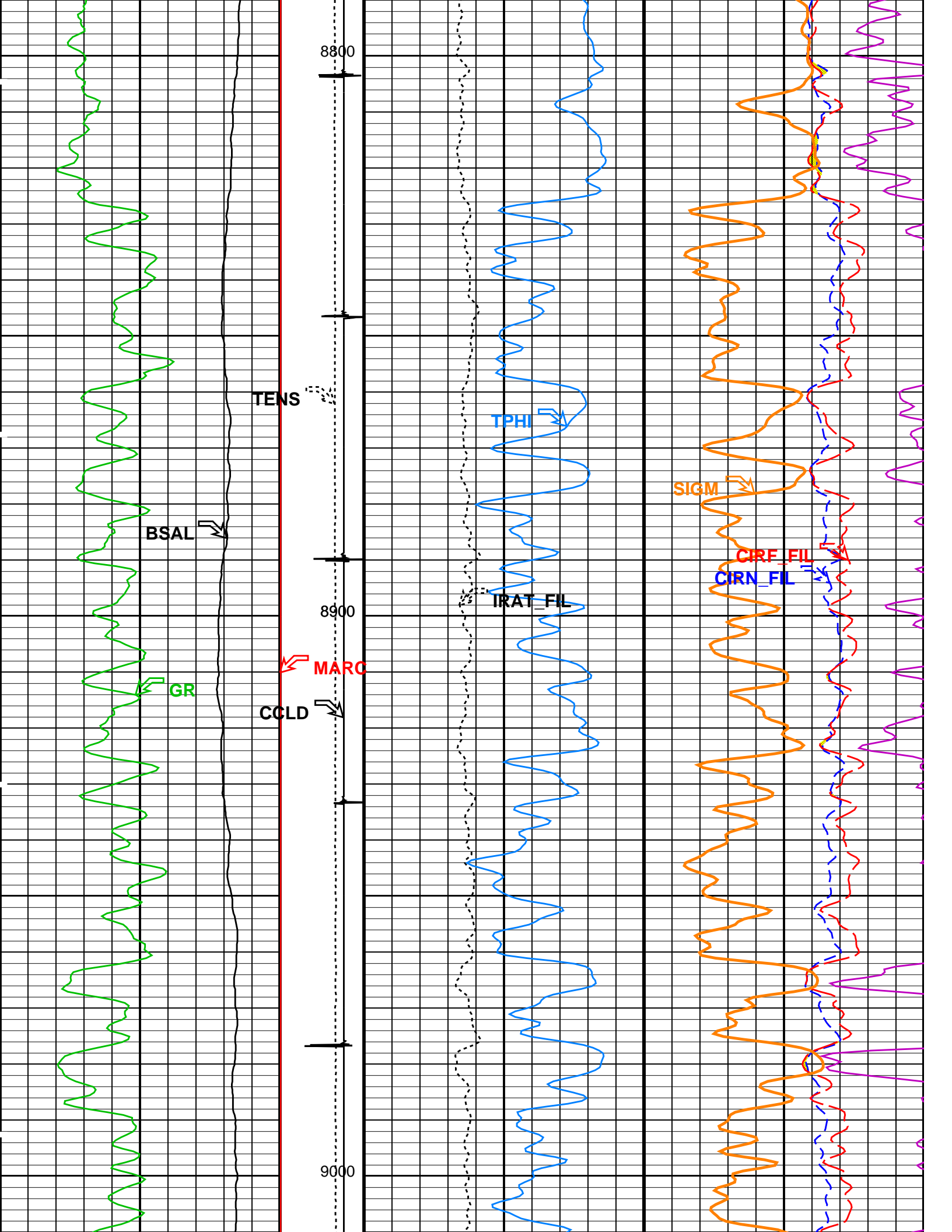




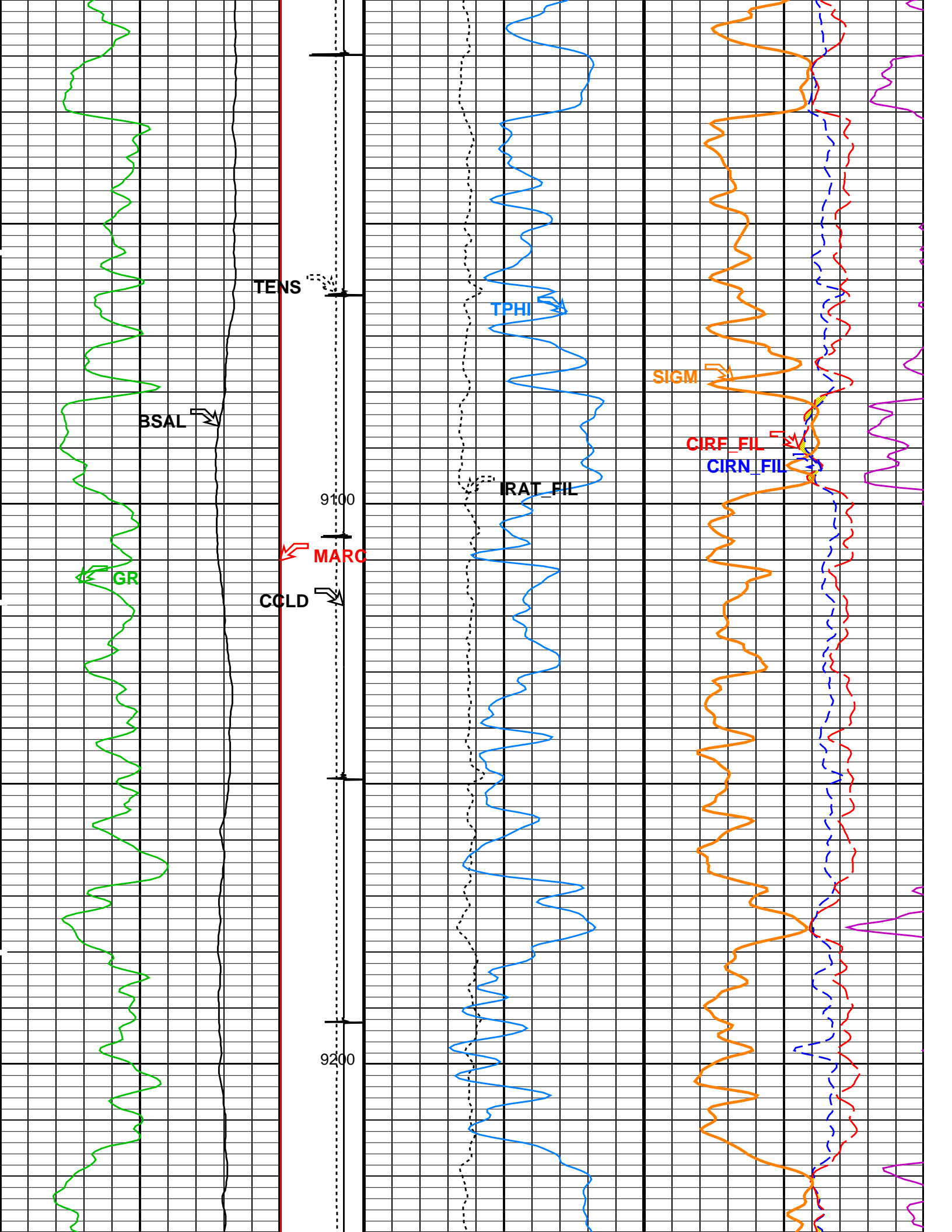


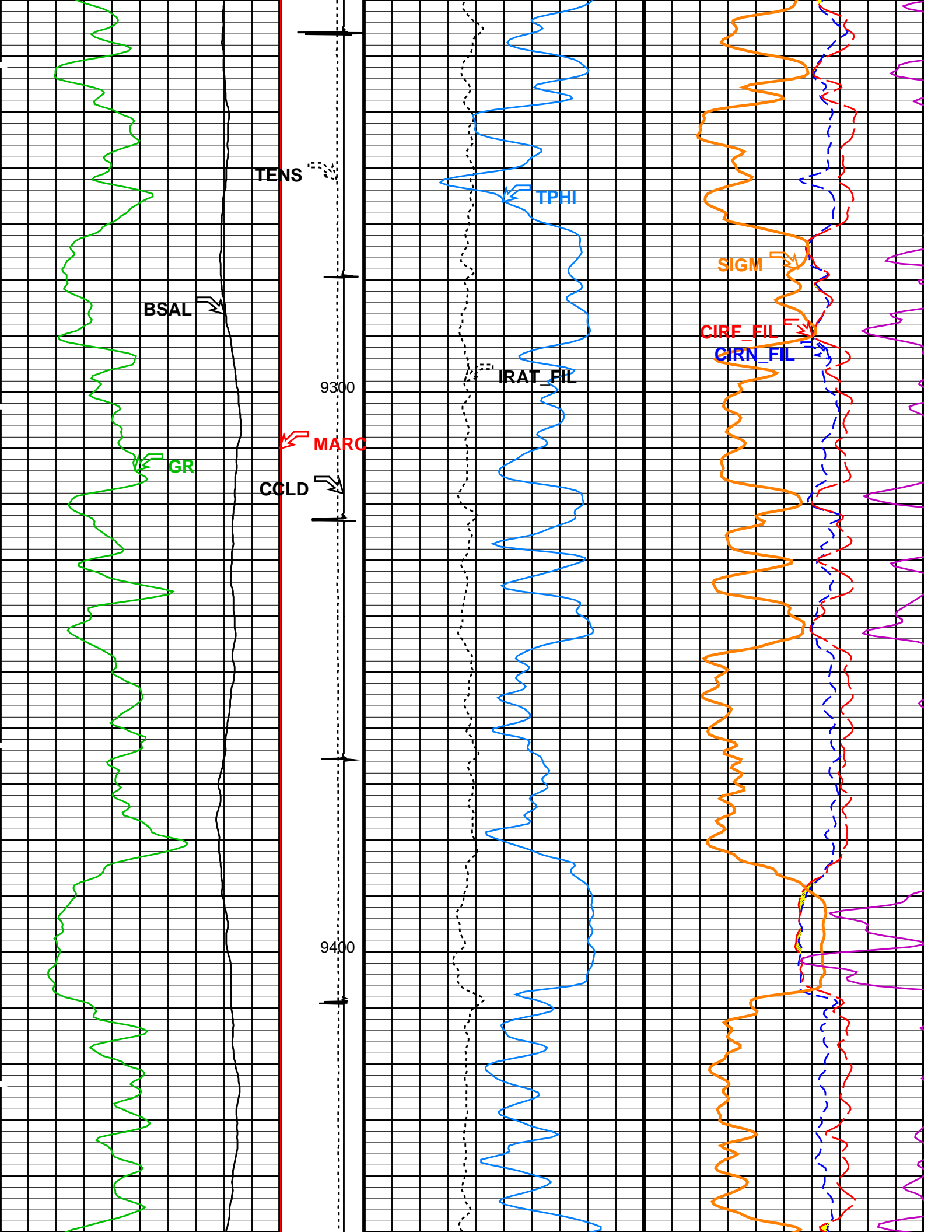


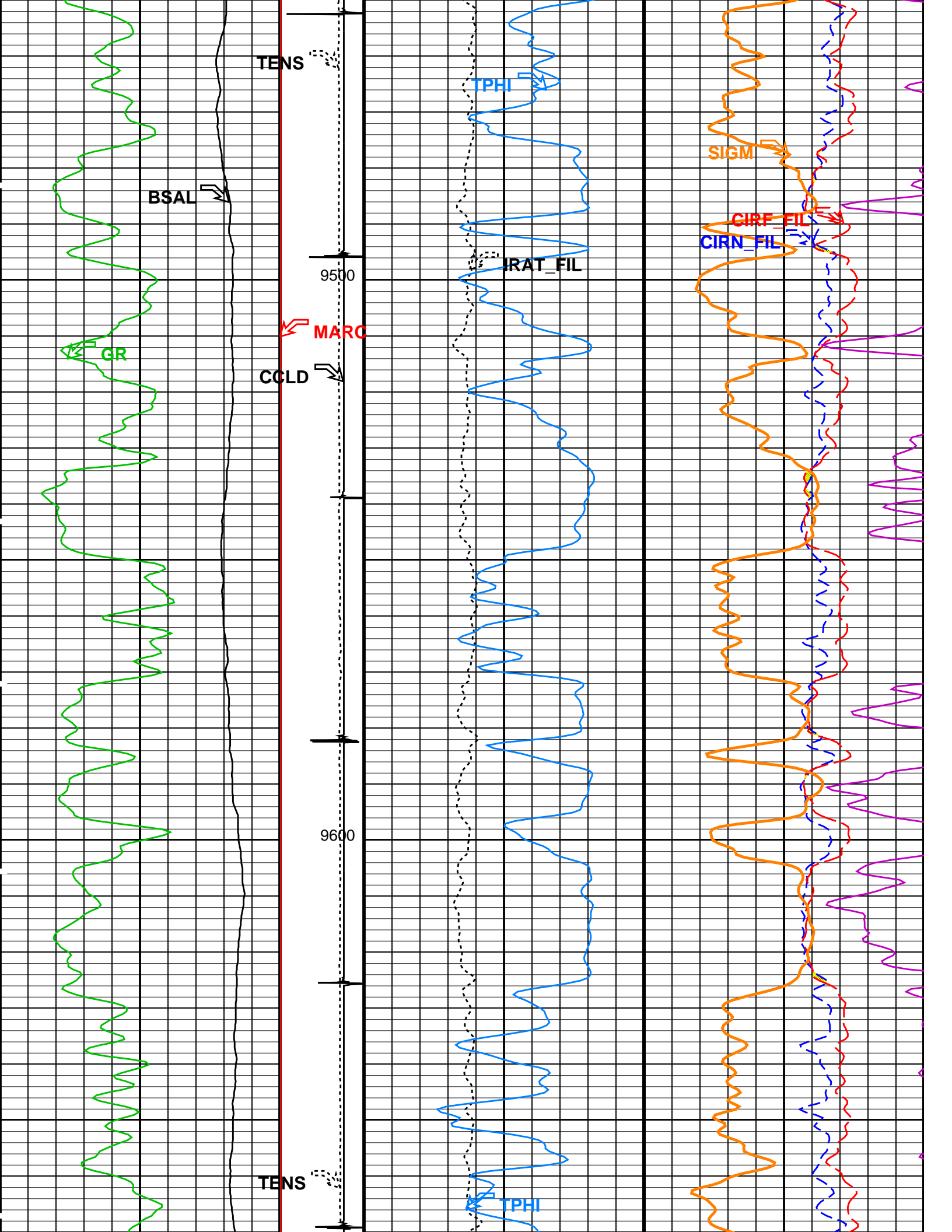


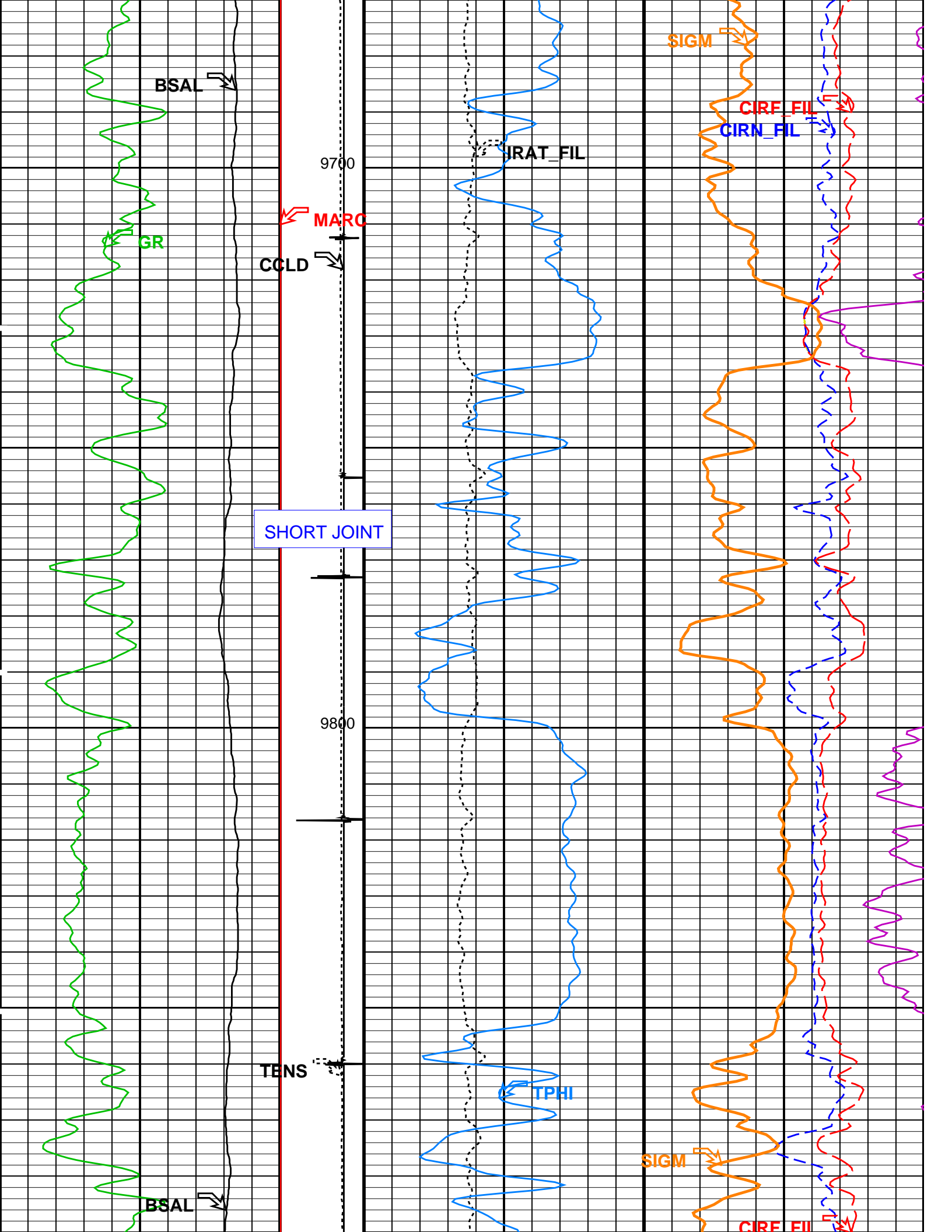


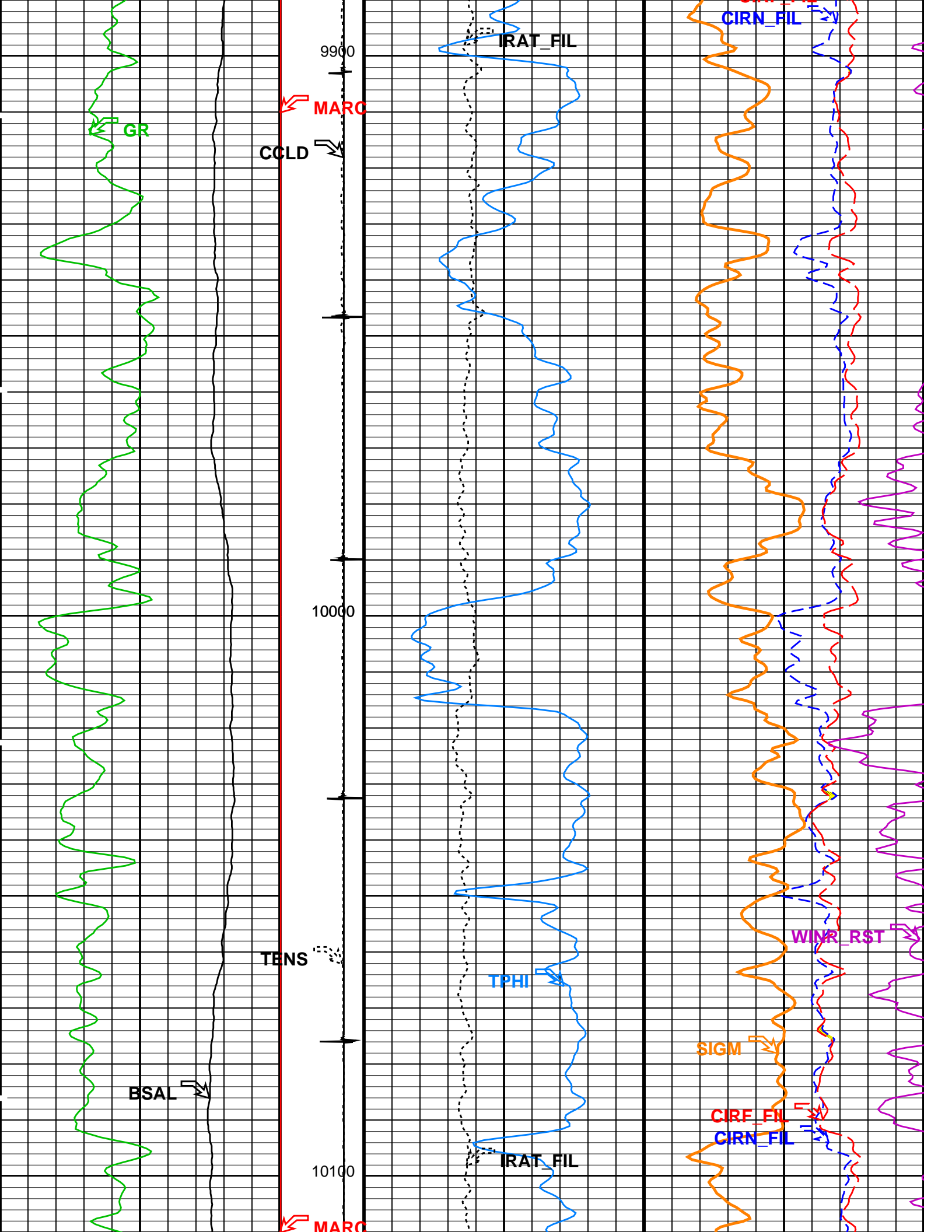


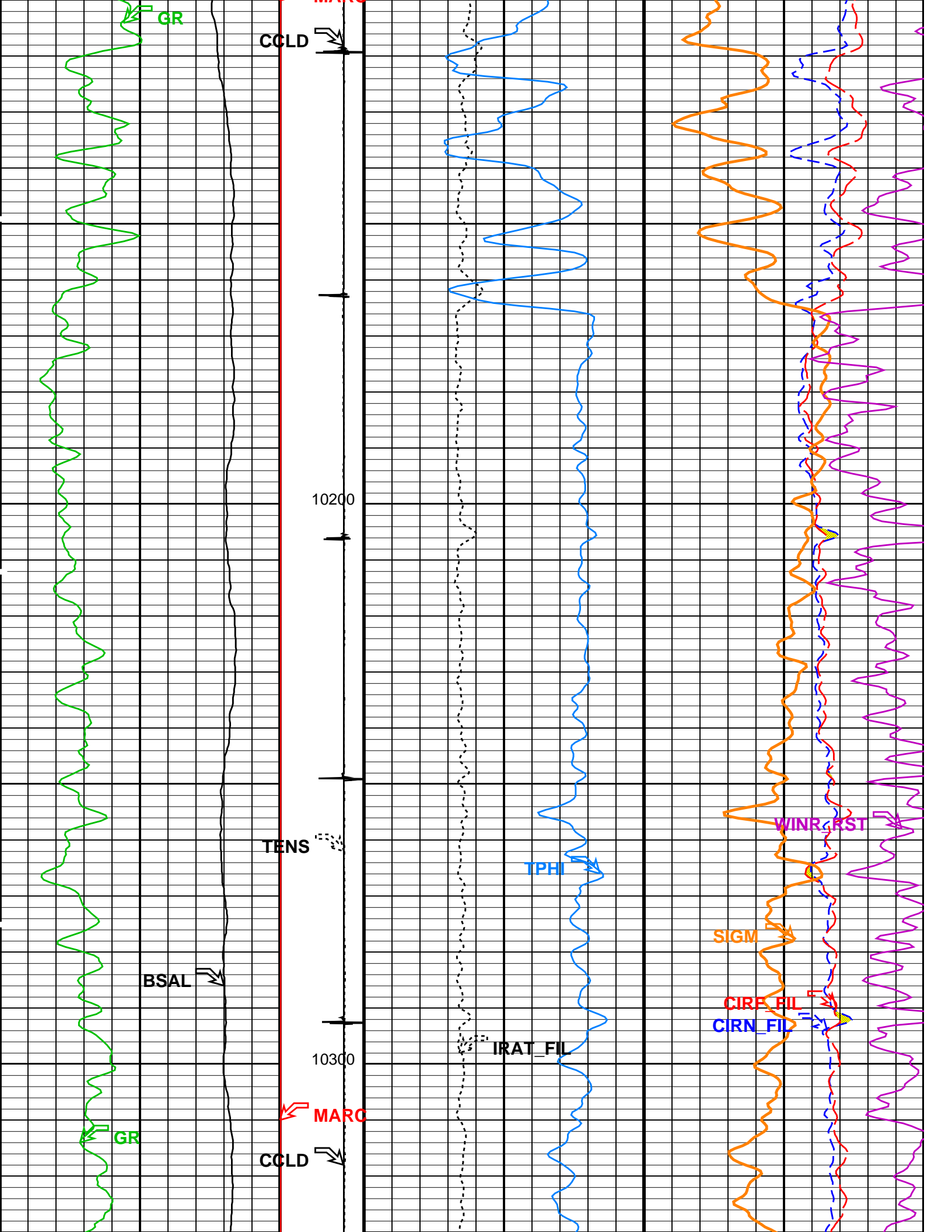


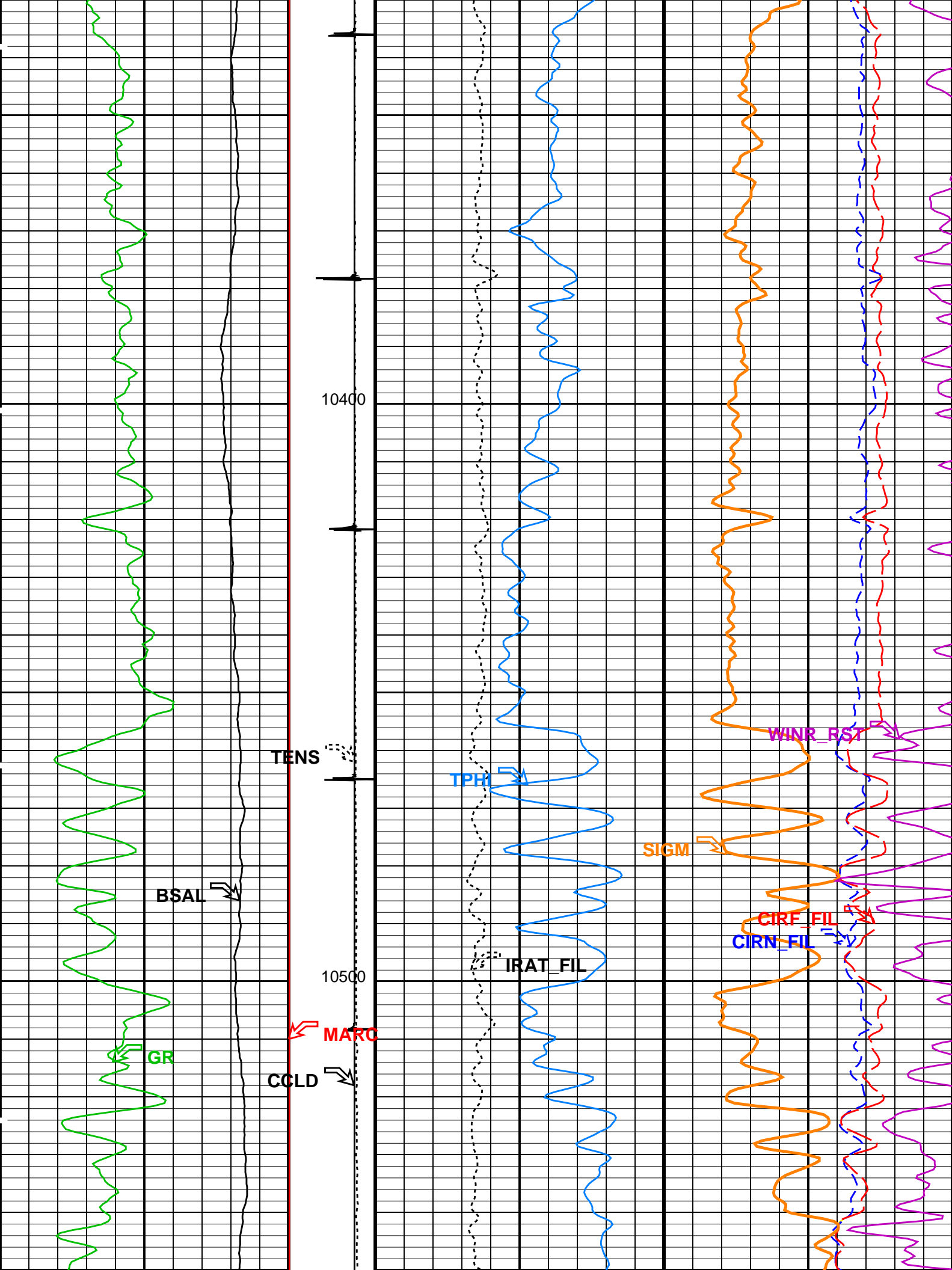


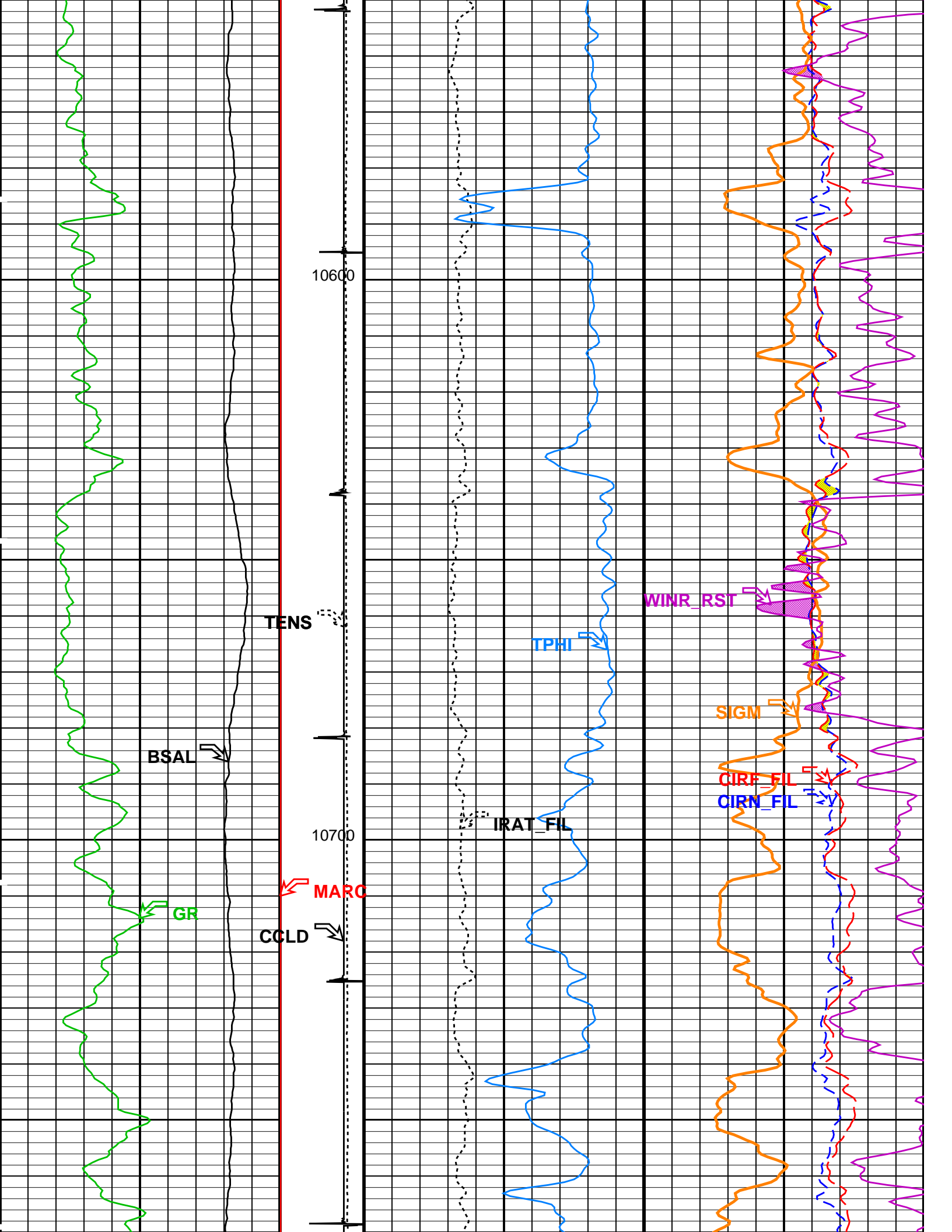




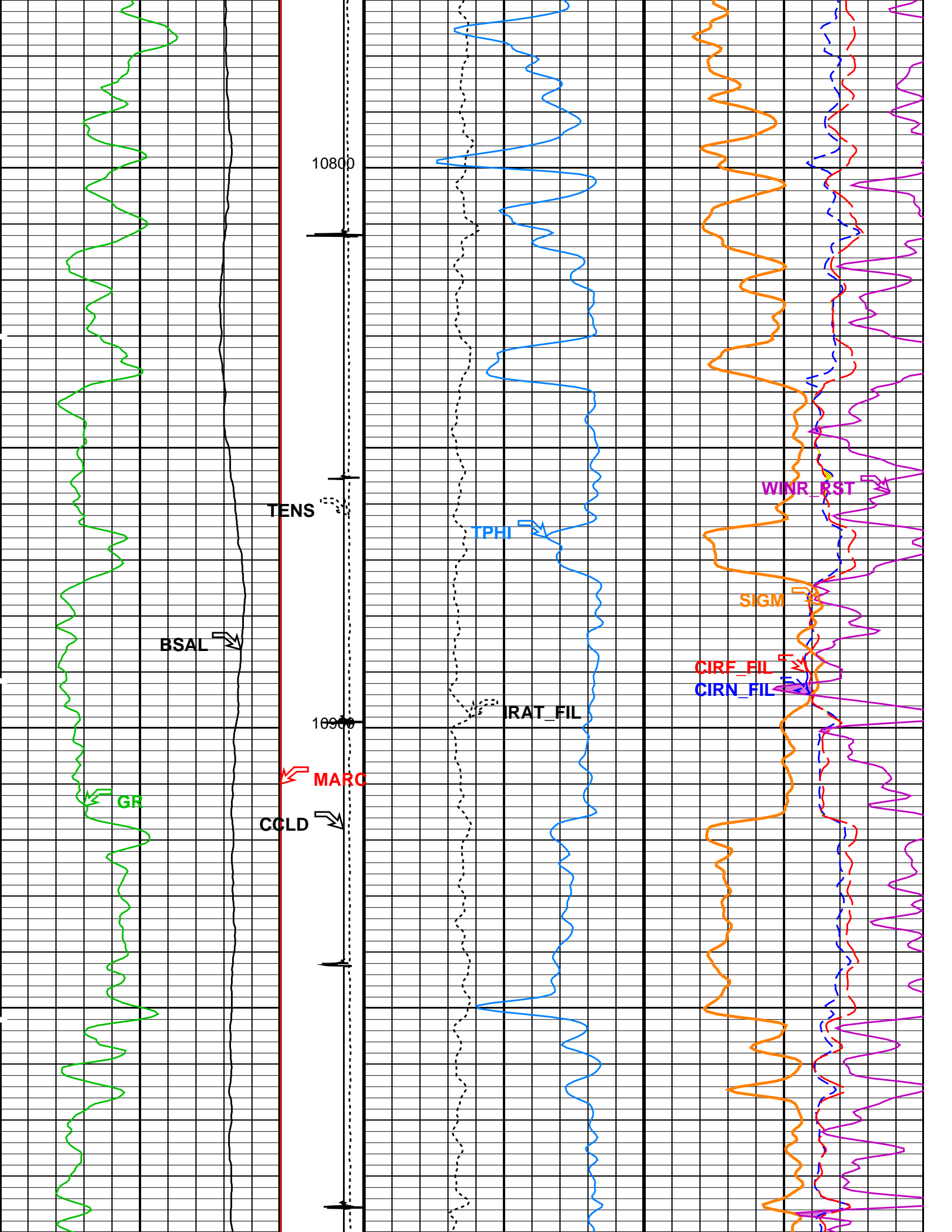


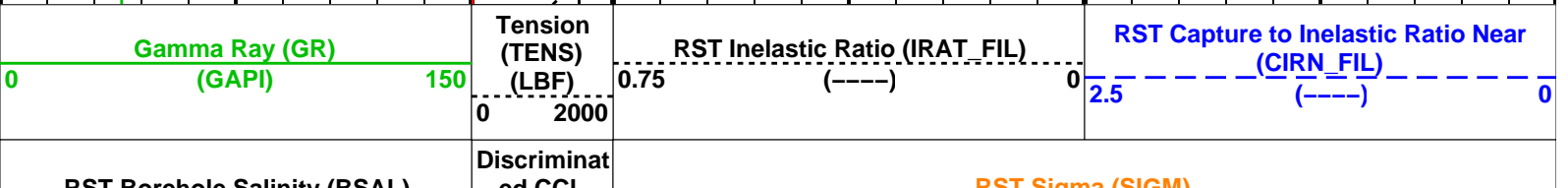
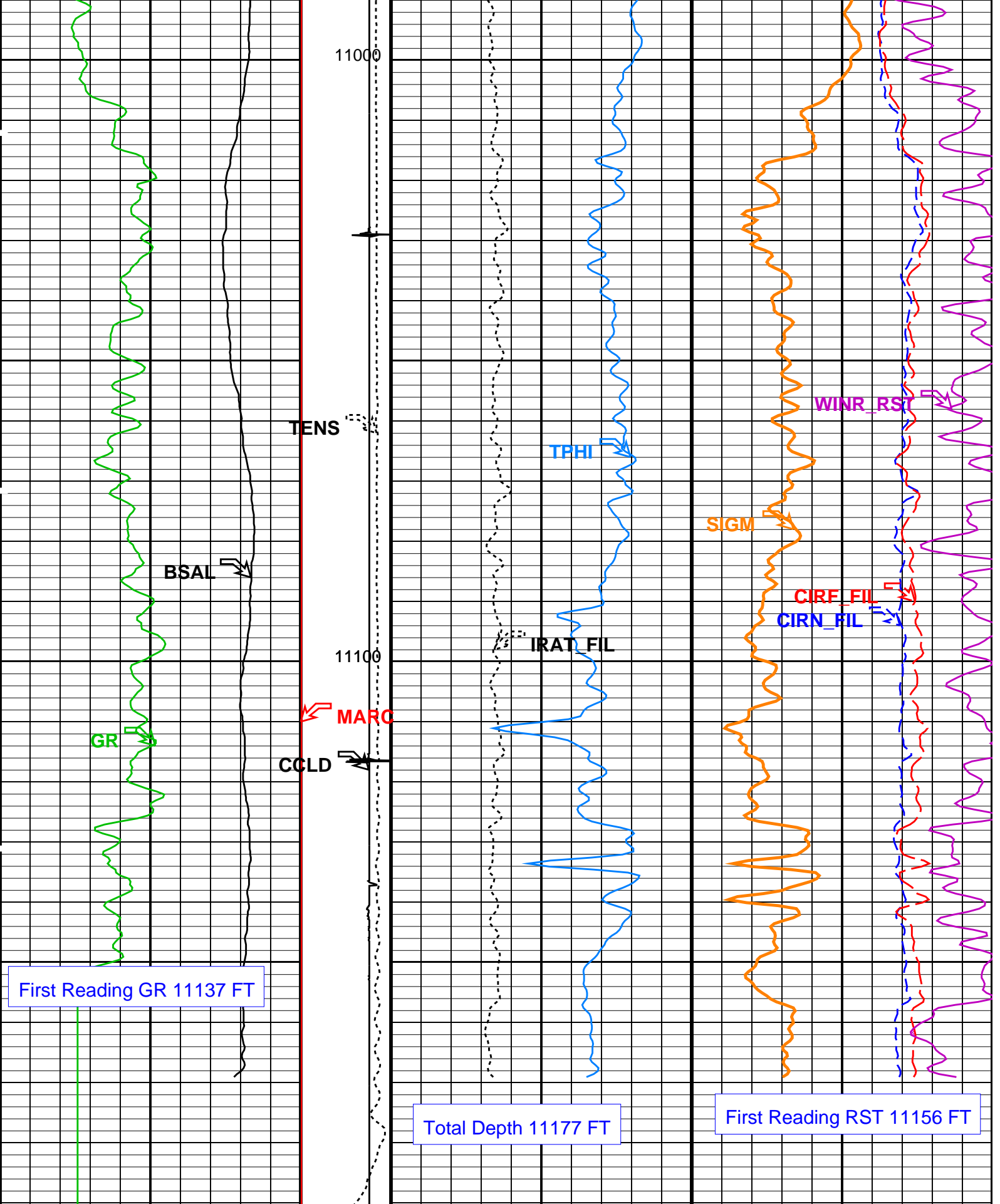












450	RST Borehole Salinity (BSAL) (PPK)	-50	ed CCL (CCLD)	60	RST Sigma (SIGM) (CU)	0
		3	(V) -1			
			Minitron Arc Detection (MARC)			
				RST Porosity (TPHI) (V/V)		
			0.5	0		
			0 (-----) 5		RST Capture to Inelastic Ratio Far (CIRF_FIL) (-----)	0
					RST Weighted Inelastic Ratio (WINR_RST)	
			0.4	(-----)		0
					WINR Gas Flag From WINR to RST_CIRF_FIL	
					Crossover in sand From RST_CIRF_FIL to RST_CIRN_FIL	

#### PIP SUMMARY

Time Mark Every 60 S

### Parameters

DLIS Name	Description	Value	
RST-CF: Flasked Reservoir Saturation Pro Tool C			
AIRB	Tractor Available in Tool String	NO	
BHS	RST Air Borehole	No	
BHT	Borehole Status	CASED	
BSALOPT	Bottom Hole Temperature (used in calculations)	212	DEGF
BSFL	RST Borehole Salinity Option	Unknown	
CSID	RST Borehole Salinity Filter Length	51	
DFPC	Casing Size I.D.	4	IN
DFPC_TDTL	RST Depth Filter Processing Constant	One	
GCSE	RST Depth Filter Processing Constant (TDT-like)	Two	
GDEV	Generalized Caliper Selection	BS	
GGRD	Average Angular Deviation of Borehole from Normal	0	DEG
GRSE	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
ISSBAR	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Barite Mud Switch	NOBARITE	
NORM_IRAT_RST	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_SIGM_RST	RST Normalized Inelastic Ratio	0.48	
PTIER	RST Normalized Sigma	30	CU
PVL_PSNT_PRST	RST Tiered Presentation Selection	0_Customer	
RGAI	PVL Peak Signal/Noise Threshold	3	
SHT	Near/Far Gain Calibration Ratio	1	
TIER_IC	Surface Hole Temperature	68	DEGF
TIER_SIGM	RST IC Acquisition Mode	0_CO_Yield_and_Spectrolith	
WOFSL_PRST	RST Sigma Acquisition Mode	0_RST_Sigma	
WONSL_PRST	RST WFL-Off Subcycle Length	0	
WSCOM_PRST	RST WFL-On Subcycle Length	0	
	RST Station Log Comment		
HBMS-B: High Temperature PSP Basic Measurement Sonde			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
CSID	Casing Size I.D.	4	IN
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
PBPO	PSP Basic Sub Position	2	
PCCG	PSP Basic Sub CCL Gain	DB12	
PSTP	PSP Telemetry Cartridge position on CAN Bus	1	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	5.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PRVSADP	Use alternate depth channel for playback	NO	

RECOMPUTE	NO	
PP	Use alternate depth channel for playback	
RMFS	Playback Processing	-50000.0000
RW	Resistivity of Mud Filtrate Sample	1.0000
TD	Resistivity of Connate Water	11177
TDD	Total Depth	11265.00
TDL	Total Depth - Driller	11177.00
TWS	Total Depth - Logger	100.00
	Temperature of Connate Water Sample	DEGF

Format: RST\_SIGMA\_S5      Vertical Scale: 5" per 100'      Graphics File Created: 15-Aug-2012 11:13

## OP System Version: 19C0-187

RST-CF      SRPC-5095-H2-2011-OP19      HBMS-B      19C0-187

### Input DLIS Files

DEFAULT      RST\_HBMS\_008LUP      FN:7      PRODUCER      15-Aug-2012 08:52      11185.5 FT      2930.5 FT

### Output DLIS Files

DEFAULT      RST\_HBMS\_009PUP      FN:8      PRODUCER      15-Aug-2012 11:13

**Schlumberger**

**REPEAT PASS RST SIGMA**

MAXIS Field Log

### Input DLIS Files

DEFAULT      RST\_HBMS\_004LUP      FN:3      PRODUCER      15-Aug-2012 08:21      6186.5 FT      5738.0 FT

DEFAULT      RST\_HBMS\_009PUP      FN:8      PRODUCER      15-Aug-2012 11:13      11190.5 FT      2911.5 FT

### Output DLIS Files

DEFAULT      RST\_HBMS\_010PUP      FN:9      PRODUCER      15-Aug-2012 11:19      6186.5 FT      5714.0 FT

## OP System Version: 19C0-187

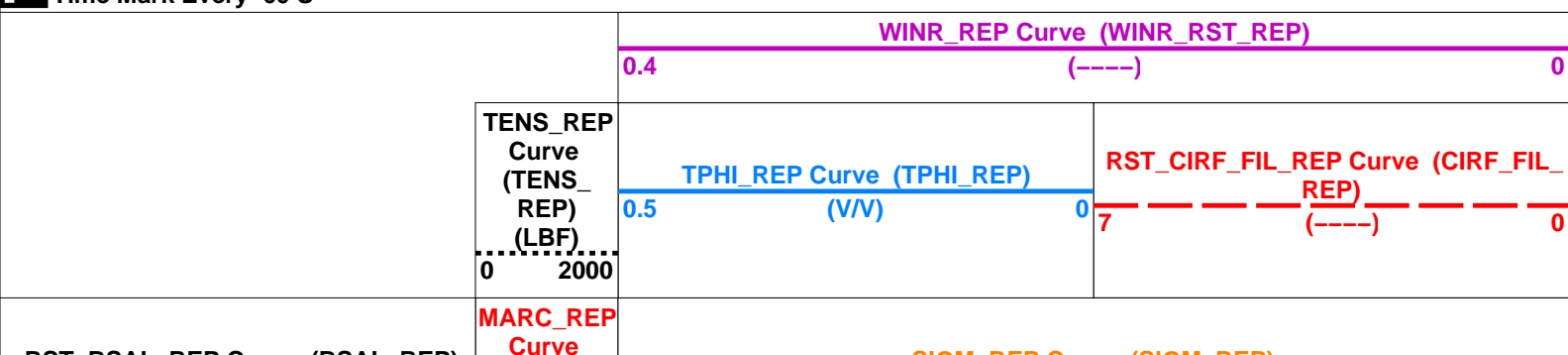
RST-CF      SRPC-5095-H2-2011-OP19      HBMS-B      19C0-187

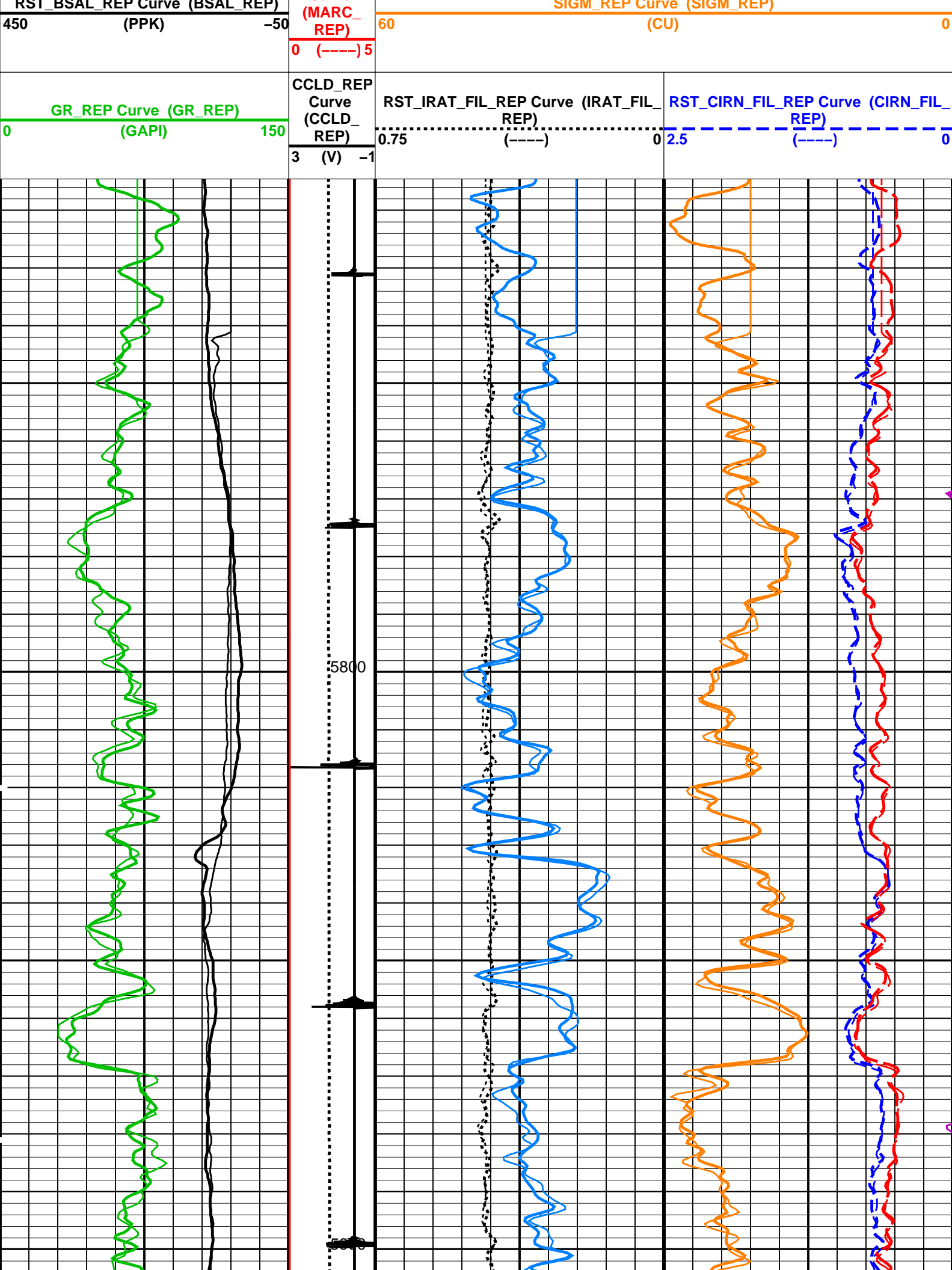
## Changed Parameter Summary

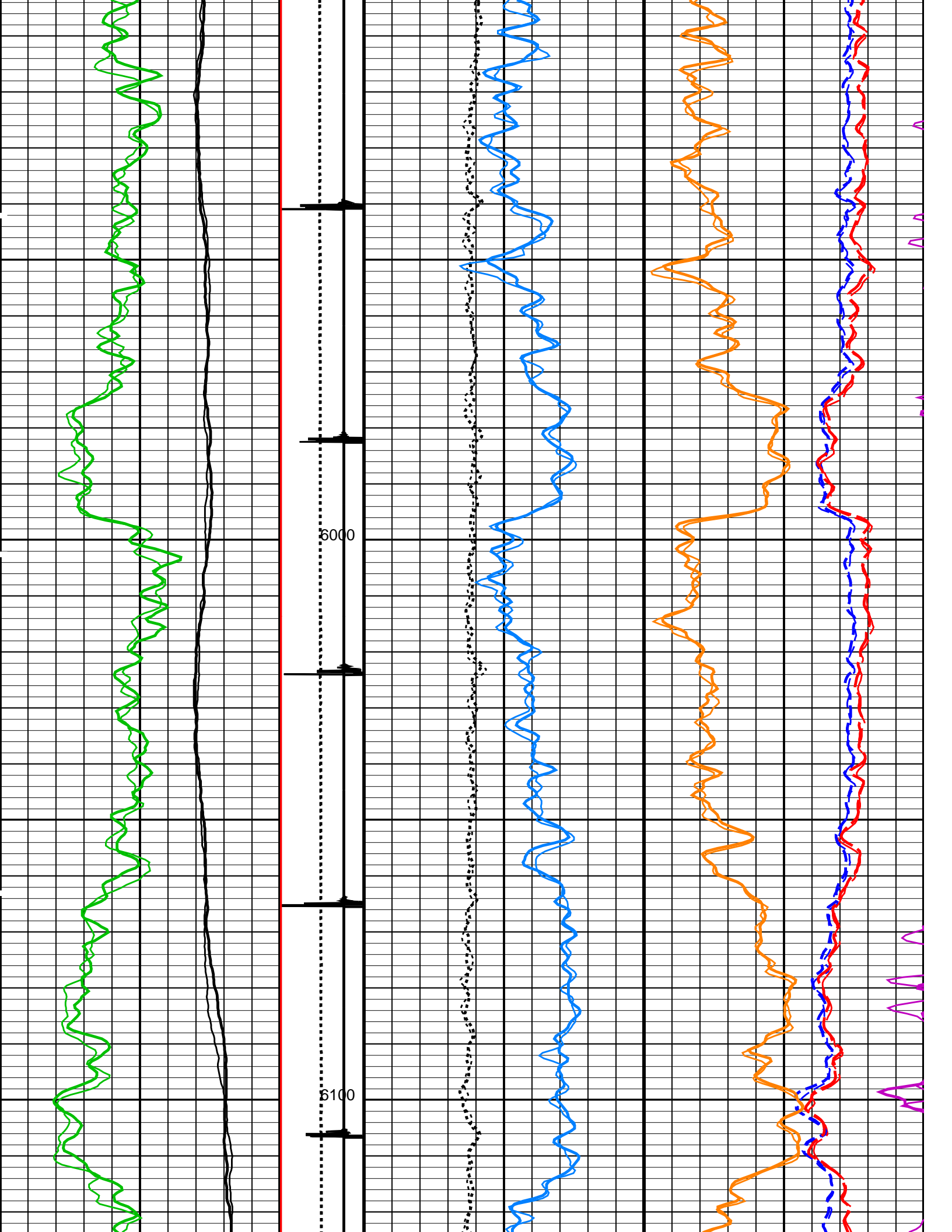
DLIS Name	New Value	Previous Value	Depth & Time
BS	8.750 IN	8.750 IN	6186.5 11:19:30

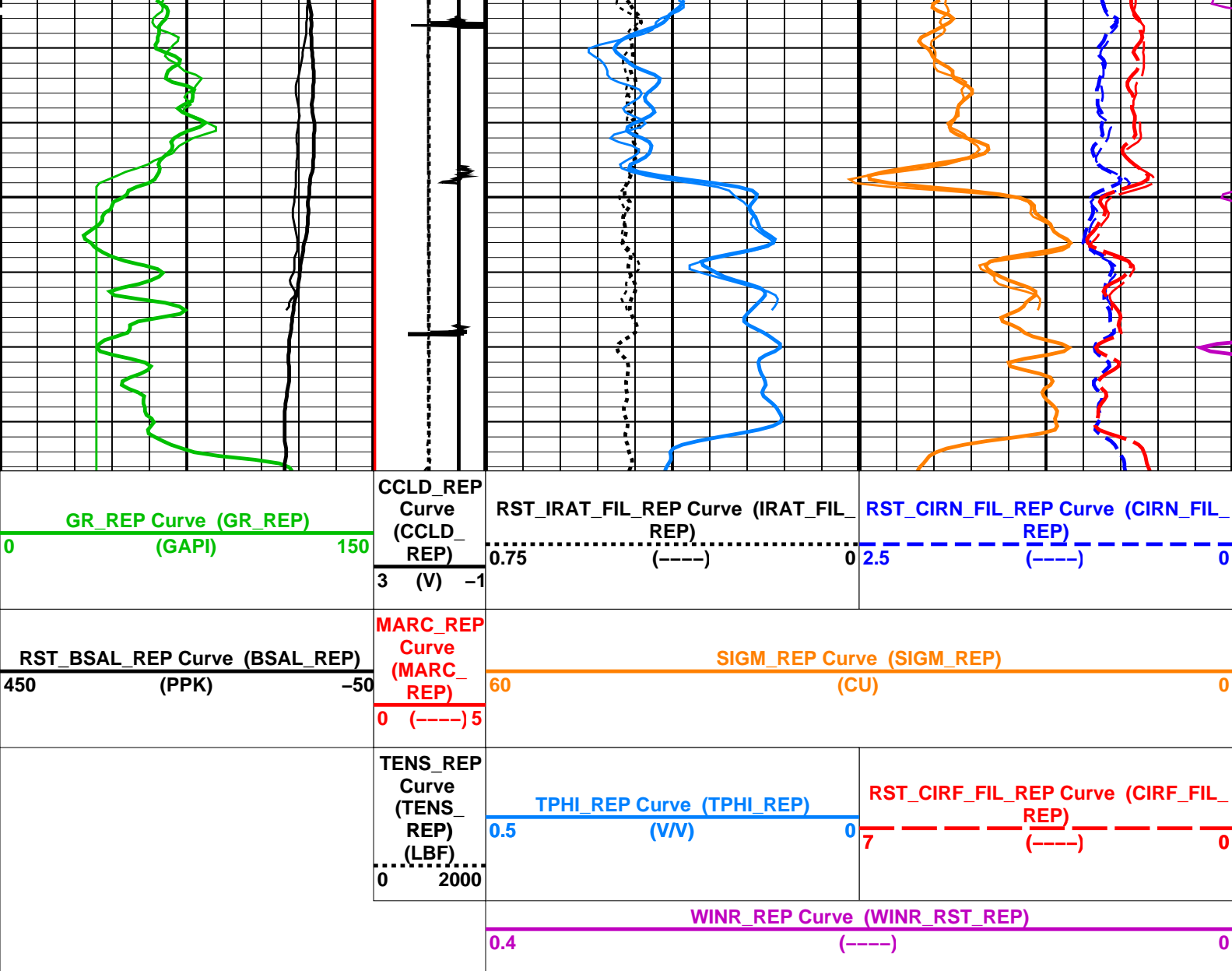
### PIP SUMMARY

Time Mark Every 60 S









#### PIP SUMMARY

Time Mark Every 60 S

### Parameters

DLIS Name	Description	Value	
RST-CF: Flashed Reservoir Saturation Pro Tool C			
	Tractor Available in Tool String	NO	
AIRB	RST Air Borehole	No	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
BSALOPT	RST Borehole Salinity Option	Unknown	
BSFL	RST Borehole Salinity Filter Length	51	
CSID	Casing Size I.D.	4	IN
DFPC	RST Depth Filter Processing Constant	One	
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
PTIER	RST Tiered Presentation Selection	0_Customer	
PVL_PSNT_PRST	PVL Peak Signal/Noise Threshold	3	
RGAI	Near/Far Gain Calibration Ratio	1	
SHT	Surface Hole Temperature	68	DEGF
TIER_IC	RST IC Acquisition Mode	0_CO_Yield_and_Spectrolith	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
WOFSL_PRST	RST WFL-Off Subcycle Length	0	

WONSL_PRST	RST WFL-On Subcycle Length	0	
WSCOM_PRST	RST Station Log Comment		
HBMS-B: High Temperature PSP Basic Measurement Sonde			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
CSID	Casing Size I.D.	4	IN
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
PBPO	PSP Basic Sub Position	2	
PCCG	PSP Basic Sub CCL Gain	DB12	
PSTP	PSP Telemetry Cartridge position on CAN Bus	1	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	11177	FT
TDD	Total Depth - Driller	11265.00	FT
TDL	Total Depth - Logger	11177.00	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: RST\_SIGMA\_S5\_REP    Vertical Scale: 5" per 100'    Graphics File Created: 15-Aug-2012 11:19

## OP System Version: 19C0-187

RST-CF      SRPC-5095-H2-2011-OP19      HBMS-B      19C0-187

### Input DLIS Files

DEFAULT	RST_HBMS_004LUP	FN:3	PRODUCER	15-Aug-2012 08:21	6186.5 FT	5738.0 FT
DEFAULT	RST_HBMS_009PUP	FN:8	PRODUCER	15-Aug-2012 11:13	11190.5 FT	2911.5 FT

### Output DLIS Files

DEFAULT	RST_HBMS_010PUP	FN:9	PRODUCER	15-Aug-2012 11:19
---------	-----------------	------	----------	-------------------

**Schlumberger**

**PBMS COEFFICIENTS**

MAXIS Field Log

Client:	Tool:	PSP
Field:	Sub Type:	PBMS
Well:	Sensor:	GR
Run date:		



PBMS Gamma Ray

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

RESISTORS FOR GR SENSOR N.34384,TOOL HBMS–BA2880. SENSOR S/N:

34384

160206

12

D8B5

GR HV Rt

	Rt**0	Rt**1
Rt**0	+.200000000000e+04	+.173000000000e+04

Client:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR RTD THERMOMETER PBMS–B.2880 S/N:

2880

260408

16

A3AF

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	–.104337336008E+04	+.798824971753E+03	–.251944021281E+03
	Tt**3	Tt**4	Tt**5
Tt**0	+.406192777109E+02	–.240958437264E+01	0.0

Client:	Tool:	PSP
Field:	Sub Type:	PBMS
Well:	Sensor:	CQG
Run date:		

PBMS Quartz Gauge type F

Sonde Serial NB	COEFFICIENTS FOR CQG PBMS-B.2880 S/N:
Sensor Serial NB	2880
Calib Date ddmmyy	260408
Matrix Size	66
Coeff CRC	66B8

Pres Coeff

	Fb**0	Fb**1	Fb**2
Fc**0	+.694668499013E+04	+.138137467574E-01	-.206148488488E-06
Fc**1	-.104285125976E+01	-.125721589078E-04	-.971577899959E-10
Fc**2	+.101045175546E-05	+.480801816357E-10	+.889110474366E-15
Fc**3	+.127326781620E-11	+.130693902354E-15	0.0
Fc**4	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0
	Fb**3	Fb**4	Fb**5
Fc**0	-.802395356069E-10	-.148392899370E-14	-.162952476494E-19
Fc**1	+.114970383999E-15	+.186330526680E-19	0.0
Fc**2	0.0	0.0	0.0
Fc**3	0.0	0.0	0.0
Fc**4	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0

PBMS Quartz Gauge type F

Sonde Serial NB	:
Sensor Serial NB	2880
Calib Date ddmmyy	260408
Matrix Size	66
Coeff CRC	3690

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+.114978632240E+03	-.318843725686E-03	+.651766172344E-08
Fb**1	+.500000000000E-02	+.000000000000E-07	+.000000000000E-10

Fb**1	-.590205352250E-02	+.168686572404E-07	+.162345150354E-12
Fb**2	-.362996279263E-07	+.407654559315E-12	+.452411391342E-17
Fb**3	-.276281361281E-12	+.871817059405E-17	0.0
Fb**4	0.0	0.0	0.0
Fb**5	0.0	0.0	0.0

	Fc**3	Fc**4	Fc**5
Fb**0	+.199118144093E-13	-.260997933236E-18	+.618908211390E-21
Fb**1	+.250084591851E-17	+.455070709200E-21	0.0
Fb**2	0.0	0.0	0.0
Fb**3	0.0	0.0	0.0
Fb**4	0.0	0.0	0.0
Fb**5	0.0	0.0	0.0

**PBMS Quartz Gauge type F**

Sonde Serial NB :  
 Sensor Serial NB 2880  
 Calib Date ddmmyy 260408  
 Matrix Size 16  
 Coeff CRC 71B5

**Clock Freq Coeff**

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+.310736316923E+05	+.273670214709E-02	+.731815197856E-06
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	-.654219198492E-10	-.150585137208E-15	-.117697151708E-19

**PBMS Quartz Gauge type F**

Sonde Serial NB :  
 Sensor Serial NB 2880  
 Calib Date ddmmyy 260408  
 Matrix Size 16  
 Coeff CRC ECB5

**Clock Temp Coeff**

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+.116053417872E+03	-.554118045908E-02	-.348241454518E-07
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	+.207992675474E-12	-.353168788938E-17	-.345142848607E-21

Company: ENCANA OIL & GAS (USA) INC.



Well: NP EF09E–27 (P27 595)  
Field: NORTH PARACHUTE  
County: GARFIELD  
State: COLORADO

RESERVOIR SATURATION TOOL  
SIGMA MODE  
GR–CCL