

Company: ENCANA OIL & GAS (USA) INC

Well: SHIDELER FEE 31-13C (031E)

Field: MAMM CREEK

County: GARFIELD

State: COLORADO

County: GARFIELD

Field: MAMM CREEK

Location: SHL: 208 FSL & 2021 FEL

Well: SHIDELER FEE 31-13C (031E)

Company: ENCANA OIL & GAS (USA) INC

RESERVOIR SATURATION LOG

SIGMA MODE

GR-CCL

SHL: 208 FSL & 2021 FEL

BHL: 538 FSL & 38 FWL

Elev.: K.B. 7129.00 ft

G.L. 7107.00 ft

D.F. 7128.00 ft

Permanent Datum: _____

GROUND LEVEL _____

Elev.: 7107.00 ft _____

Log Measured From: _____

KELLY BUSHING _____

22.00 ft above Perm. Datum

Drilling Measured From: _____

KELLY BUSHING _____

API Serial No. 05-045-21736-0C

Section 31

Township 7S

Range 92W

PVT DATA				Run 1	Run 2	Run 3
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 10-Feb-2013

Run Number 1

Depth Driller 9118 ft

Schlumberger Depth 9024 ft

Bottom Log Interval 8990 ft

Top Log Interval 2000 ft

Casing Fluid Type FRESH WATER

Salinity

Density 8.4 lbm/gal

Fluid Level 60 ft

BIT/CASING/TUBING STRING

Bit Size 7.875 in

From 7250 ft

To 9118 ft

Casing/Tubing Size 4.500 in

Weight 11.6 lbm/ft

Grade S-80

From 22 ft

To 9098 ft

Maximum Recorded Temperatures 244 degF

Logger On Bottom 10-Feb-2013 21:00

Unit Number 391 Location GRAND JUNCTION

Recorded By KIRSTIE BUNTING

Witnessed By SHANE

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	
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Date Created: 29-JAN-2013 10:07:01

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:	3421	Serial Number:	112136
Calibration Date:	24-APR-2012	Calibration Date:	29-JAN-2013	Length:	19500 FT
Calibrator Serial Number:		Calibrator Serial Number:	174878		
Calibration Cable Type:	1-25ZT	Number of Calibration Points:	10	Conveyance Method:	Wireline
Wheel Correction 1:	-3	Calibration RMS:	13	Rig Type:	LAND
Wheel Correction 2:	-4	Calibration Peak Error:	23		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	
Rig Up Length At Bottom:	
Rig Up Length Correction:	
Stretch Correction:	
Tool Zero Check At Surface:	

Depth Control Remarks	
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- | |
|---|
| <ol style="list-style-type: none">1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES APPLIED2. IDW USED AS PRIMARY DEPTH REFERENCE3. SWPT DRUM COUNTER USED AS SECONDARY DEPTH REFERENCE4.5.6. |
|---|

DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1: SLIM CEMENT MAPPING	OS1:
OS2: LOG	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	
ENTRANCE TIME: 20:15	
TIME AT TD: 21:00	
EXIT TIME: 23:30	

MAXIMUM RECORDED TEMPERATURE: 244 DEG F					
MAXIMUM RECORDED PRESSURE: 3667 PSIA					
SHORT JOINTS: 6978 FT & 7883 FT					
SANDSTONE MATRIX USED					
THANK YOU FOR CHOOSING E&P WIRELINE, A SCHLUMBERGER COMPANY					
CREW: K BUNTING J BARRY B RANSBOTTOM K JOHNS					
<div> <div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div> <div>C920-00035</div> <div>19C0-187</div> <div>60 ft</div> </div> </div>			<div> <div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> </div>		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

[illegible]

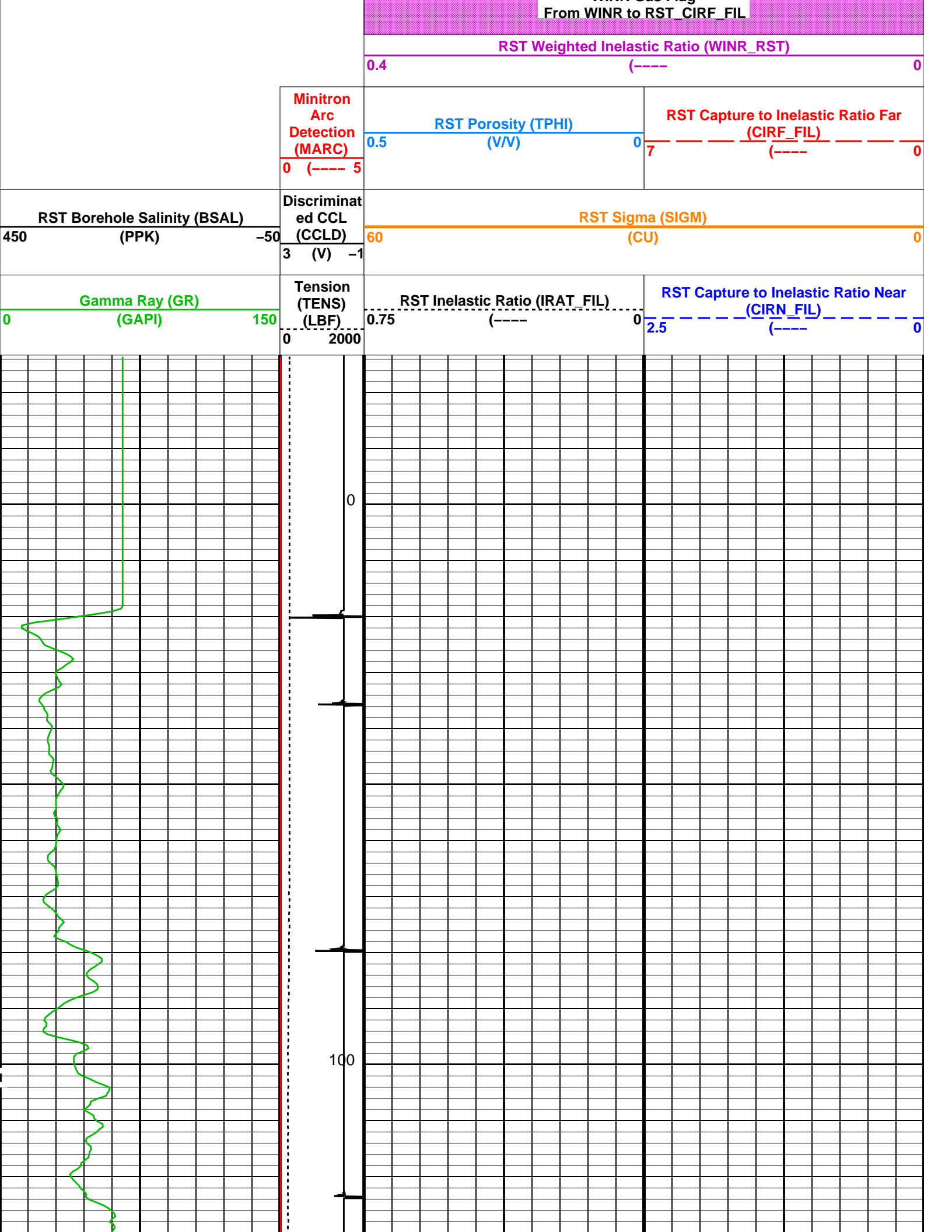
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2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
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9	1	1
10	1	1
11	1	1
12	1	1
13	1	1
14	1	1
15	1	1
16	1	1
17	1	1
18	1	1
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99	1	1
100	1	1

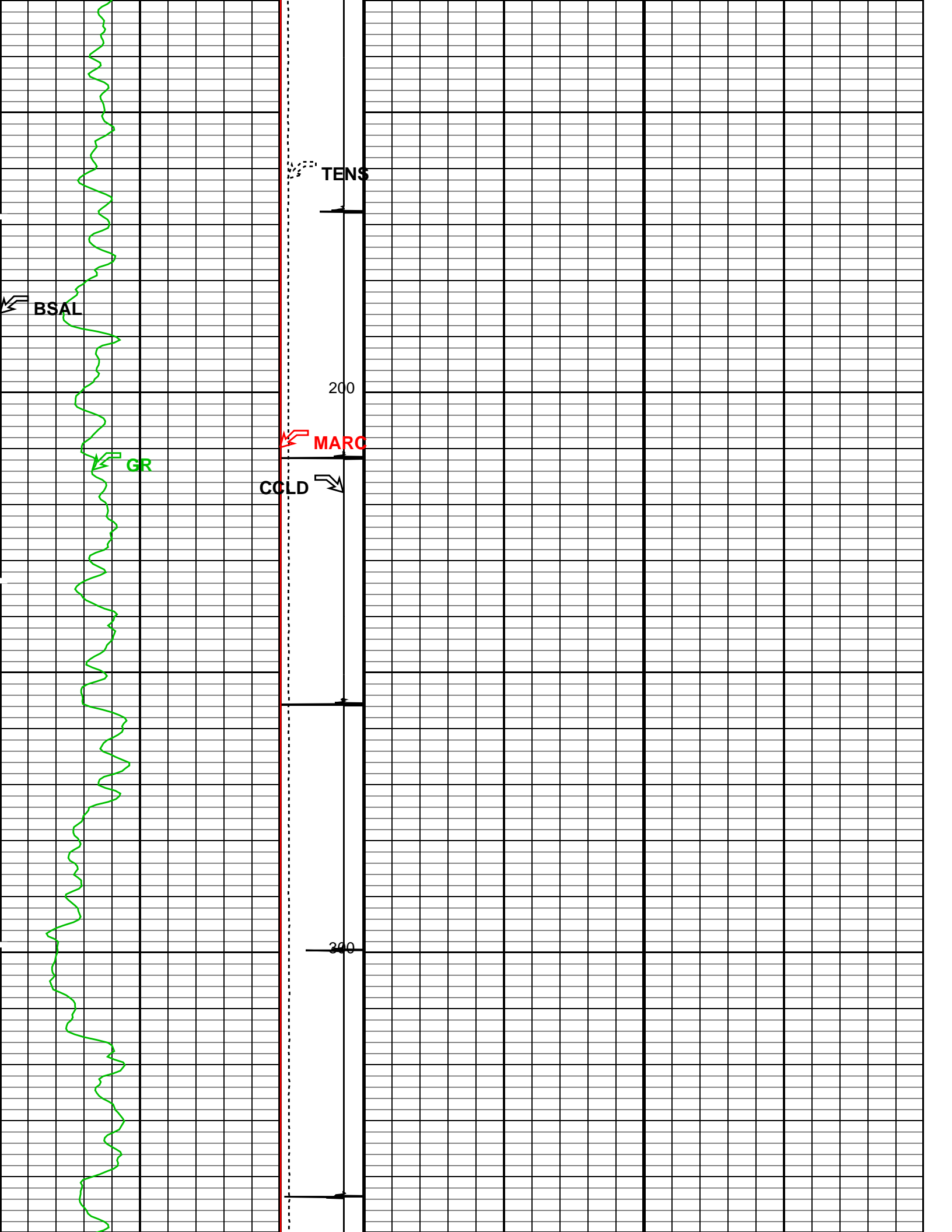
SURFACE EQUIPMENT		
WITM-A		
PSC_16MHZ		

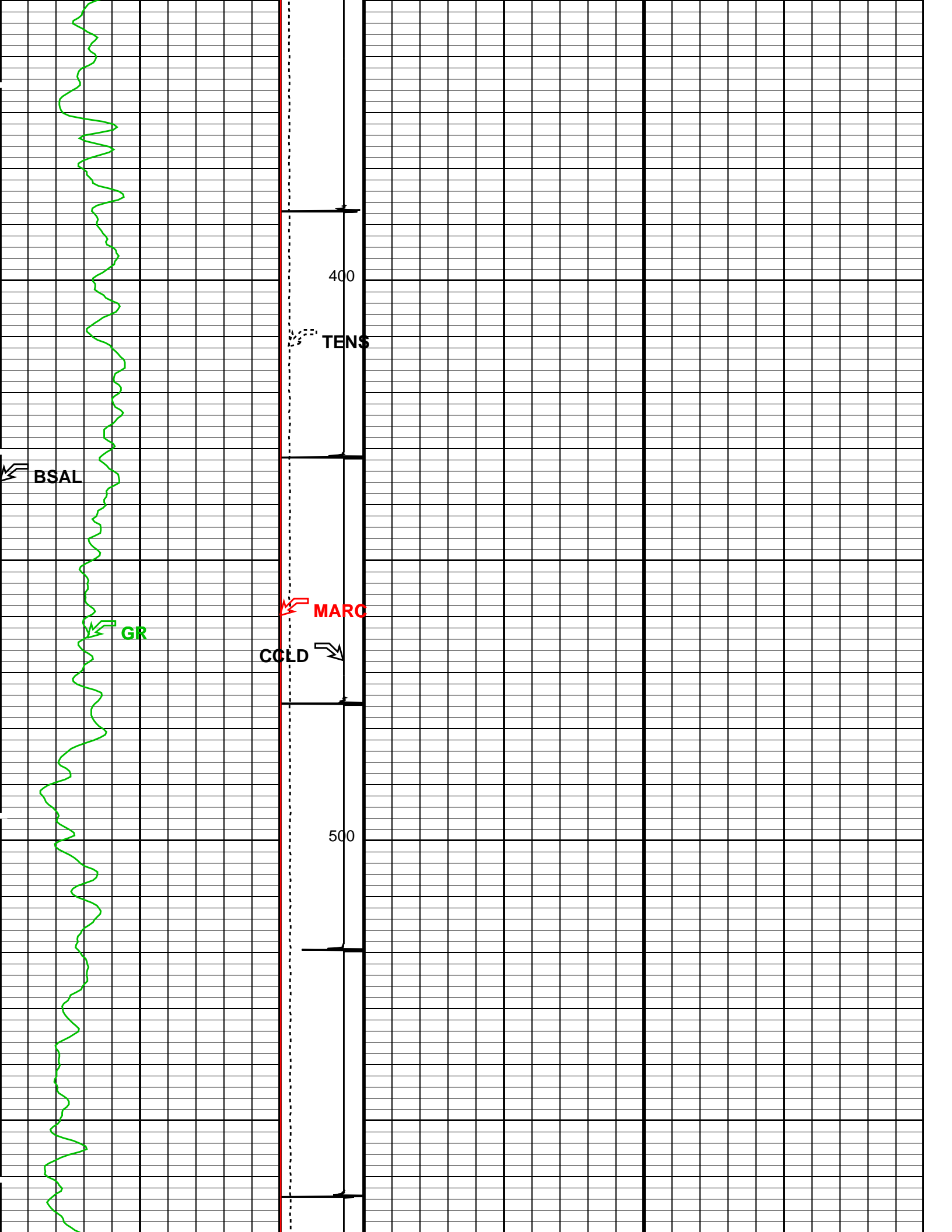
DOWNHOLE EQUIPMENT

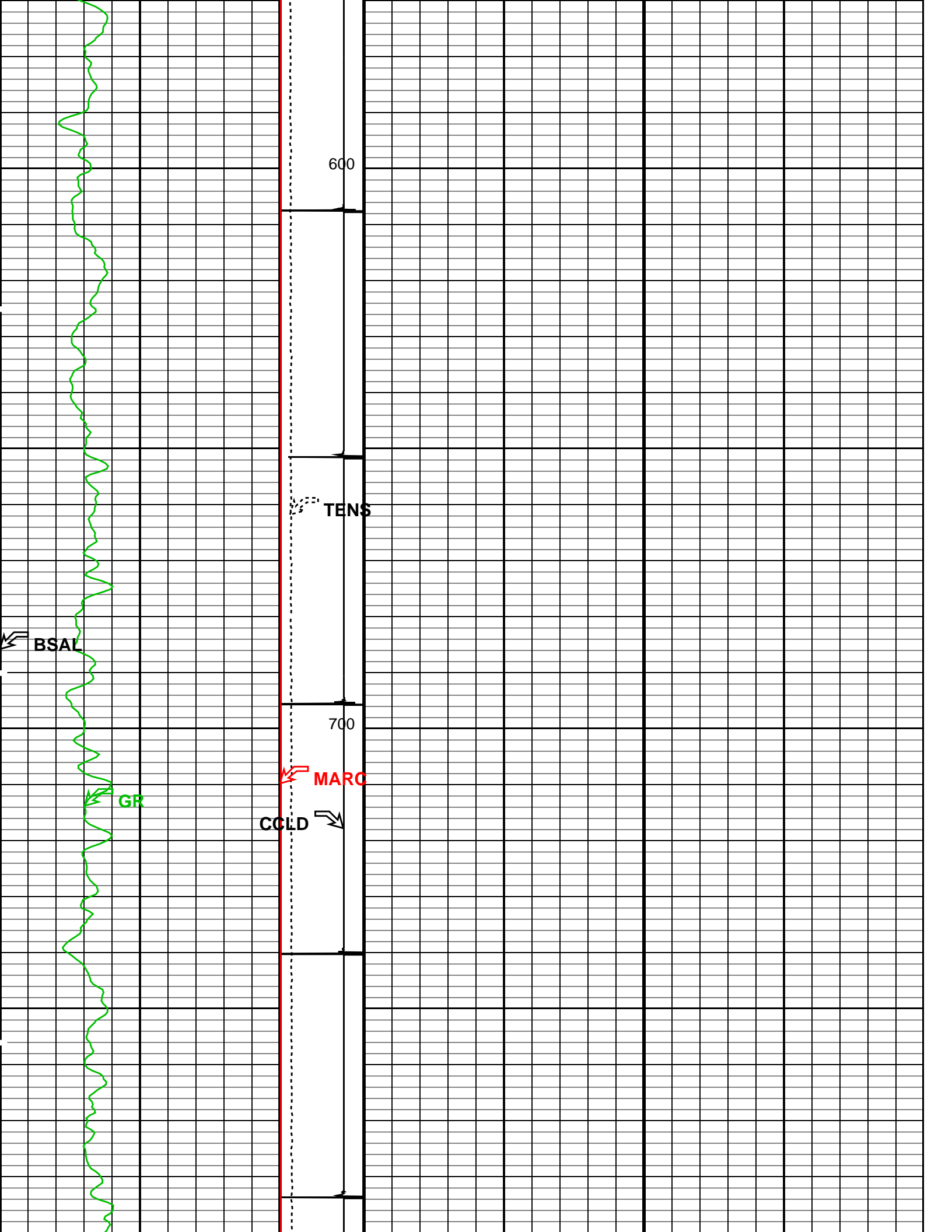
Device	Temperature (°C)
MH-22	53.4
MH-22	
AH-38	51.8
PSPT	51.5
PSC-A	
PSPT-A 1772	
PSTC-A	
PBMS-A	47.8
10k_Sapphire_Mano	
RTD_Thermometer	
GR	44.8
CCL	44.6
PBMS 928	44.0
	43.3
RST-C	43.3
RSCH-A 469	
RSC-E	
RSS-A 461	
RSXH-A 493	
RSX-E	
RSC-A Far	34.2
RSC-A PNG	
RSC-A Nea	
RSX-A PNG	33.7

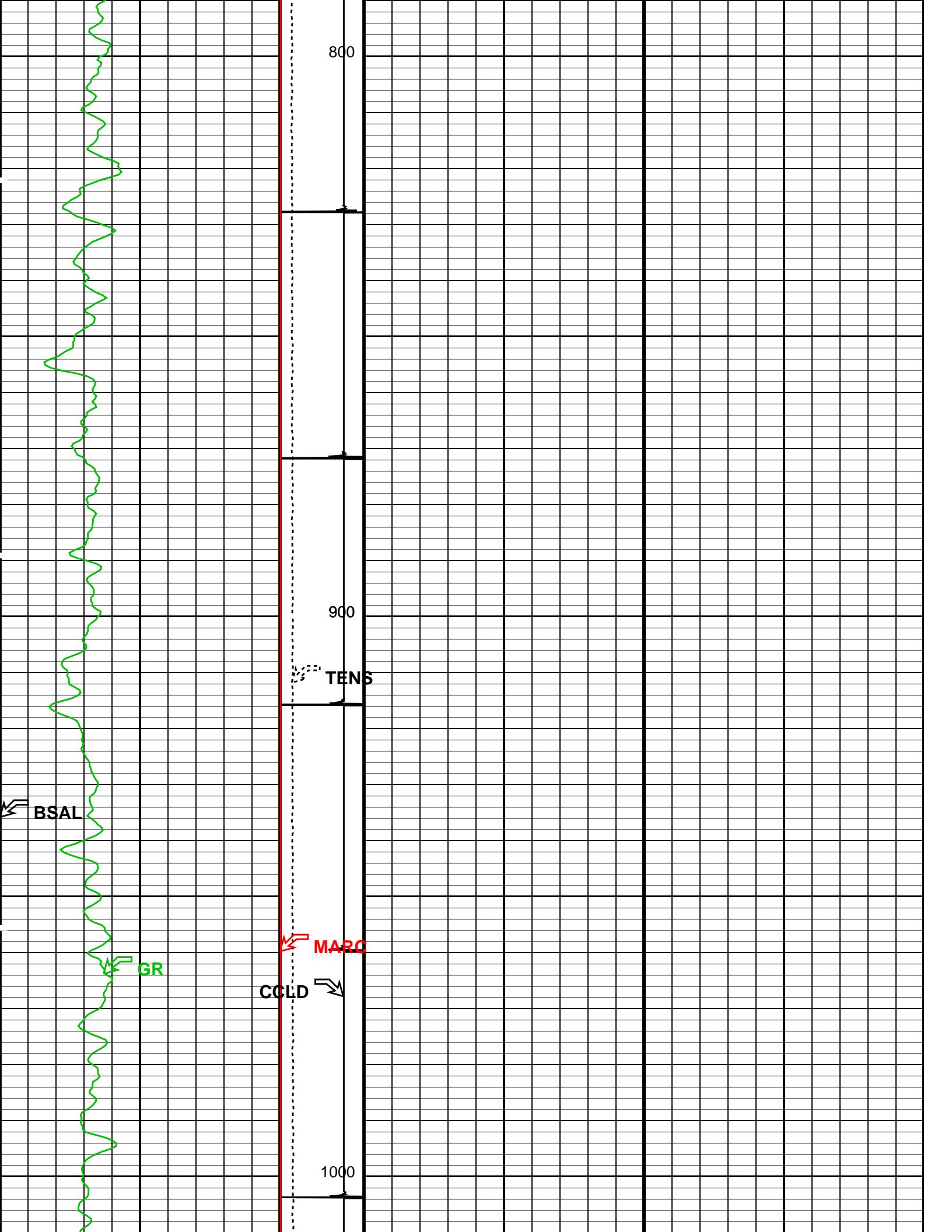
WINR Gas Flag

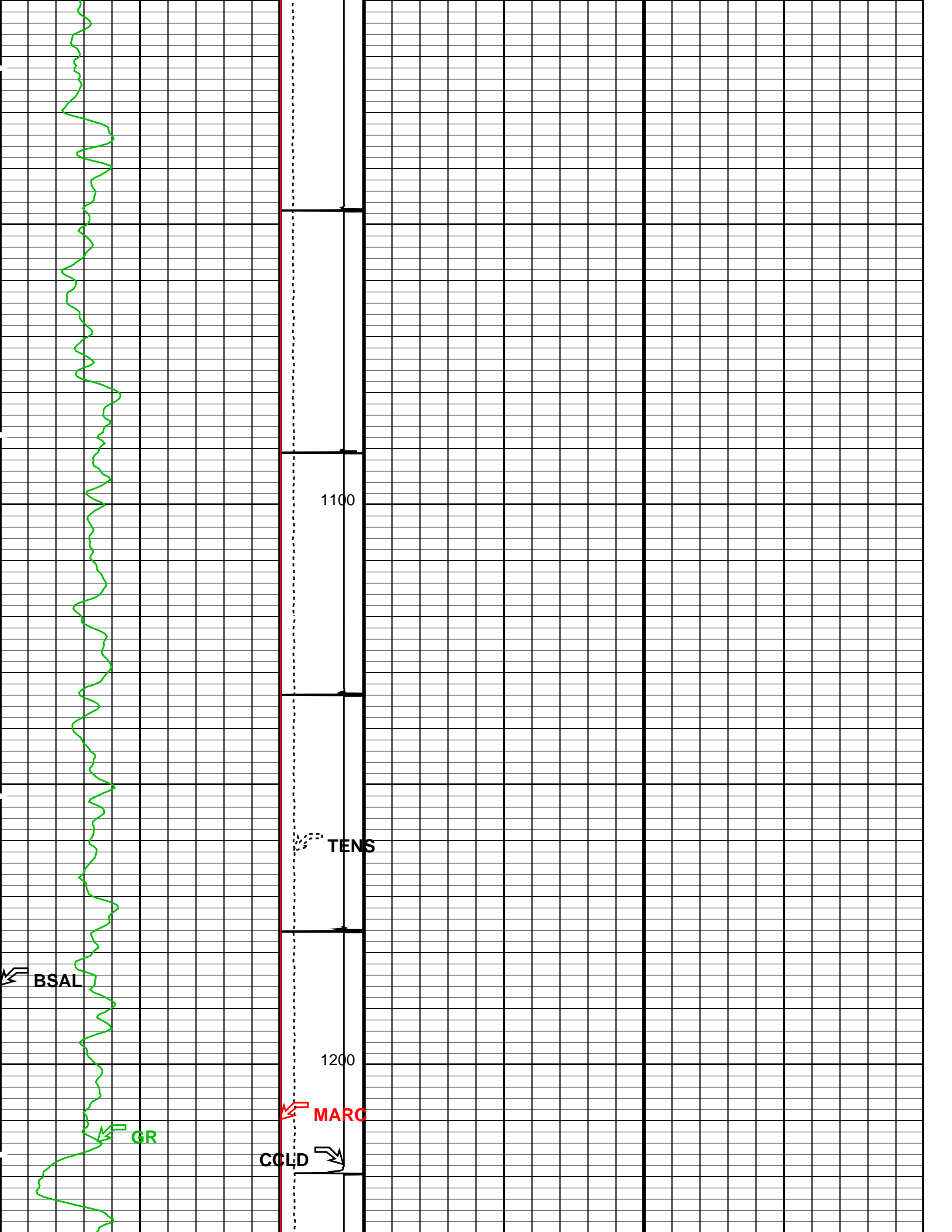


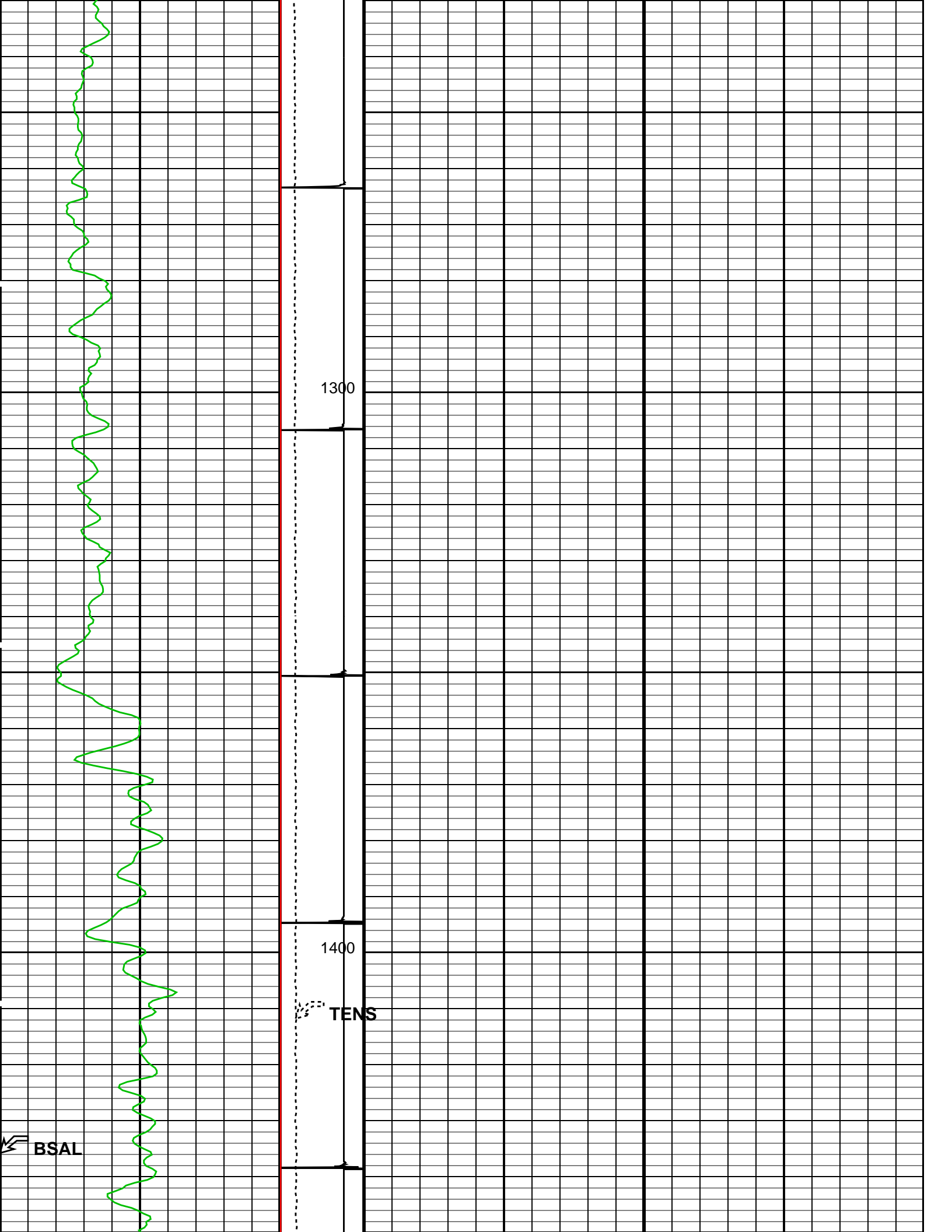


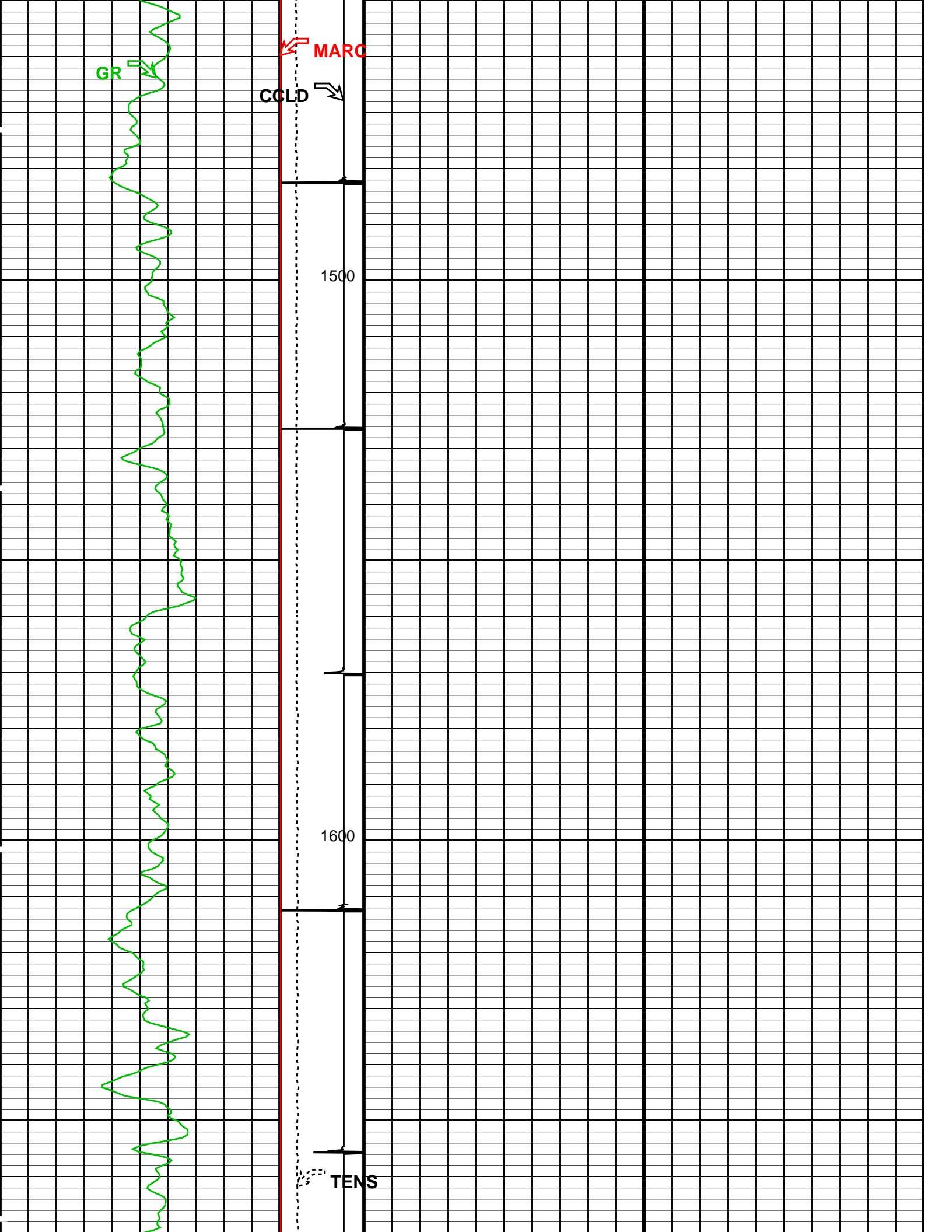


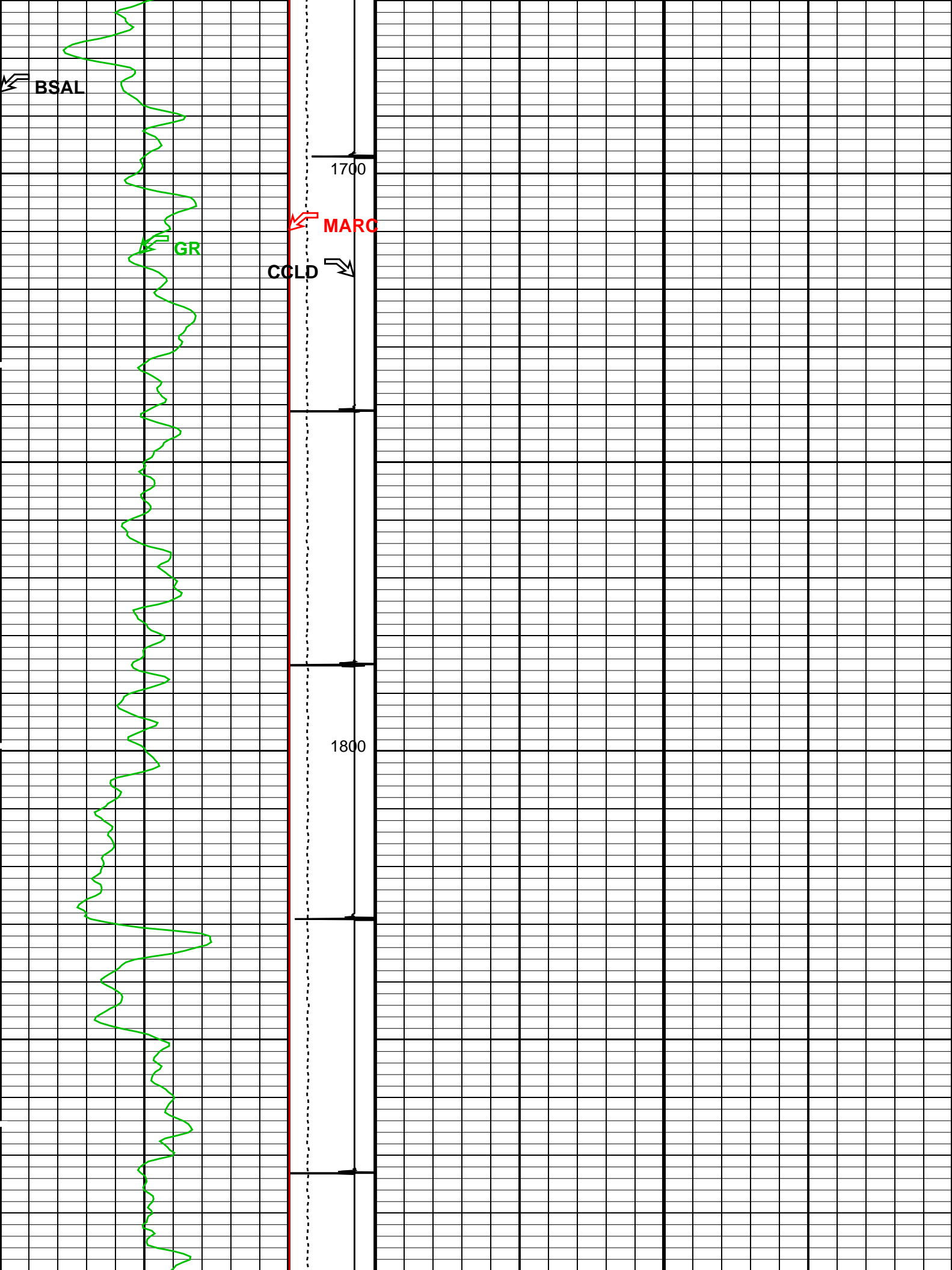


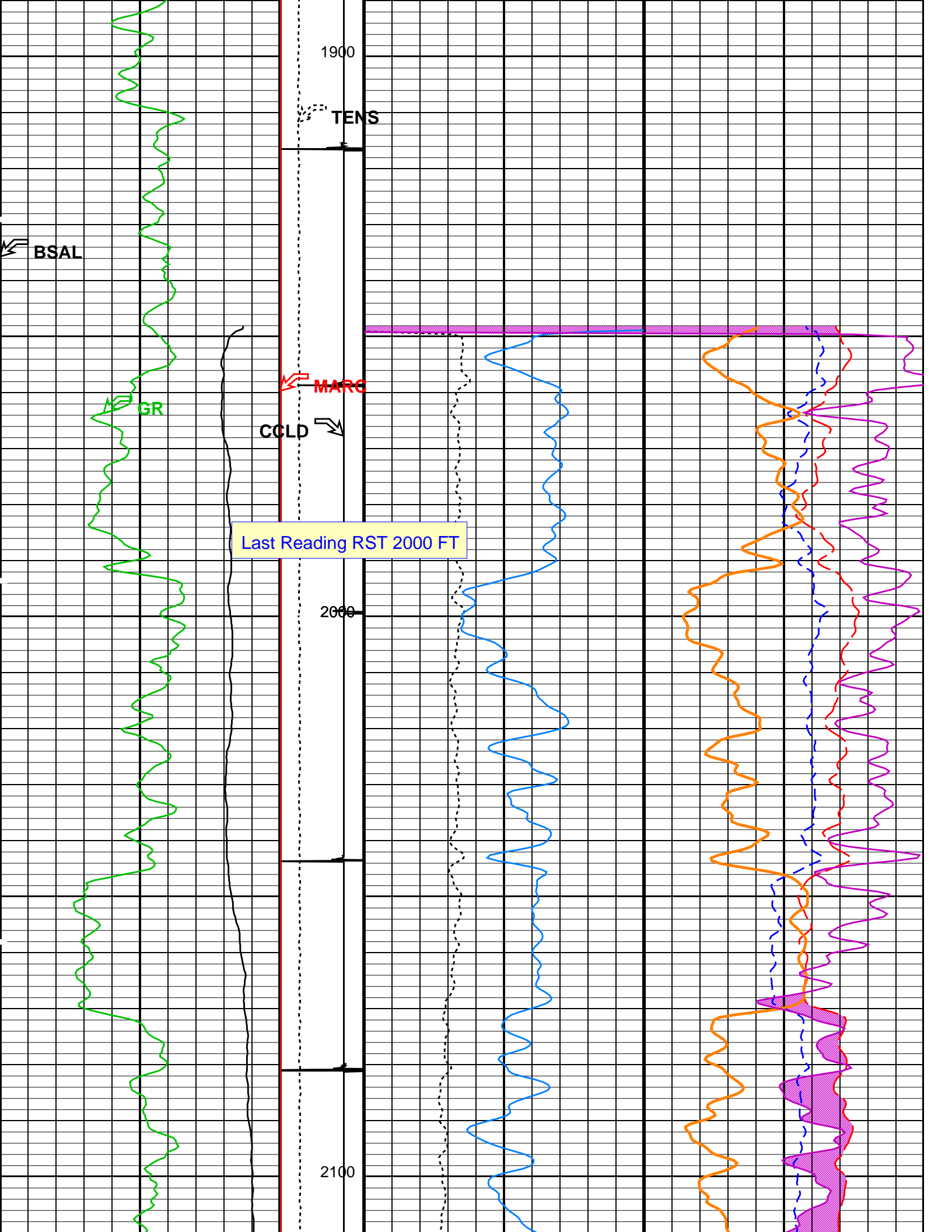


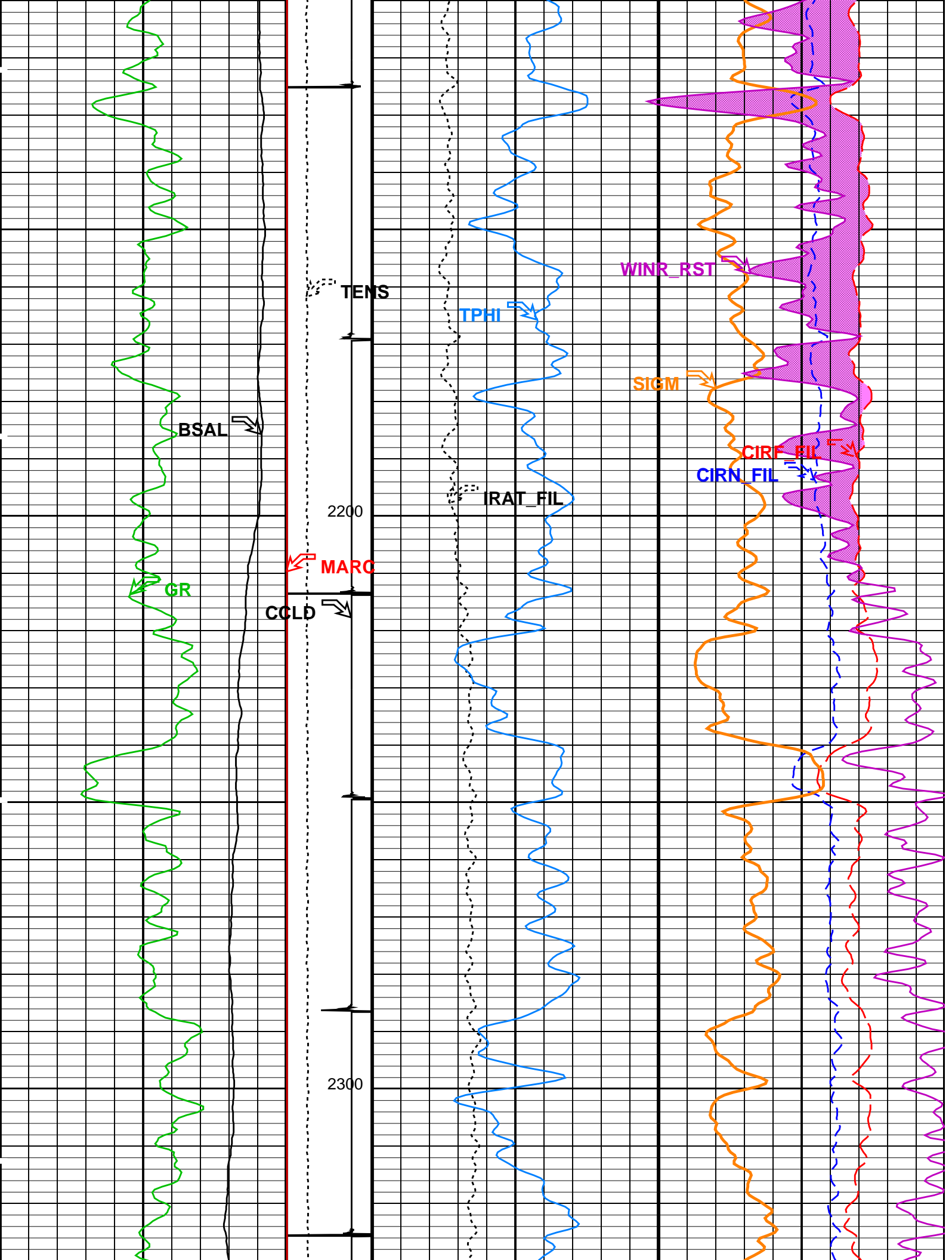


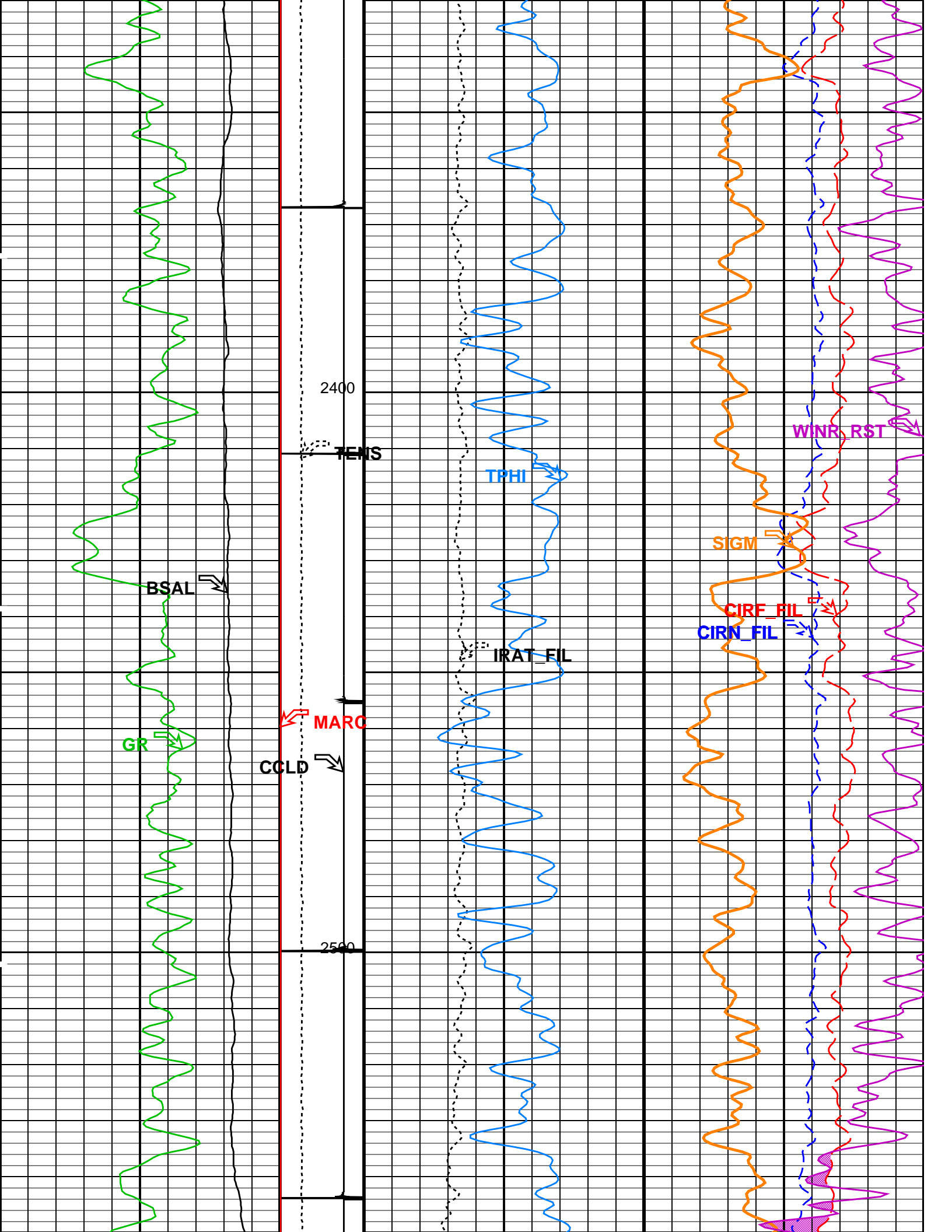


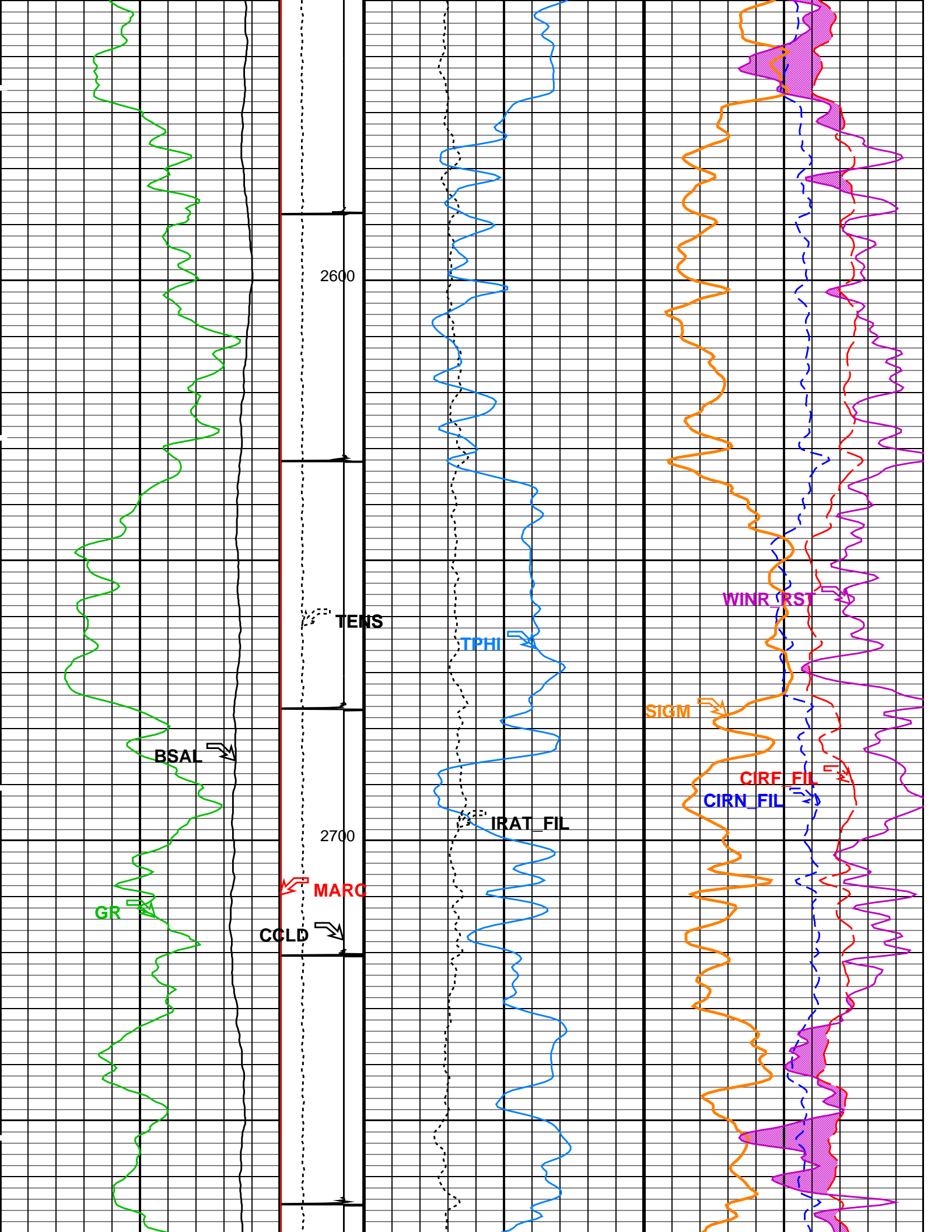


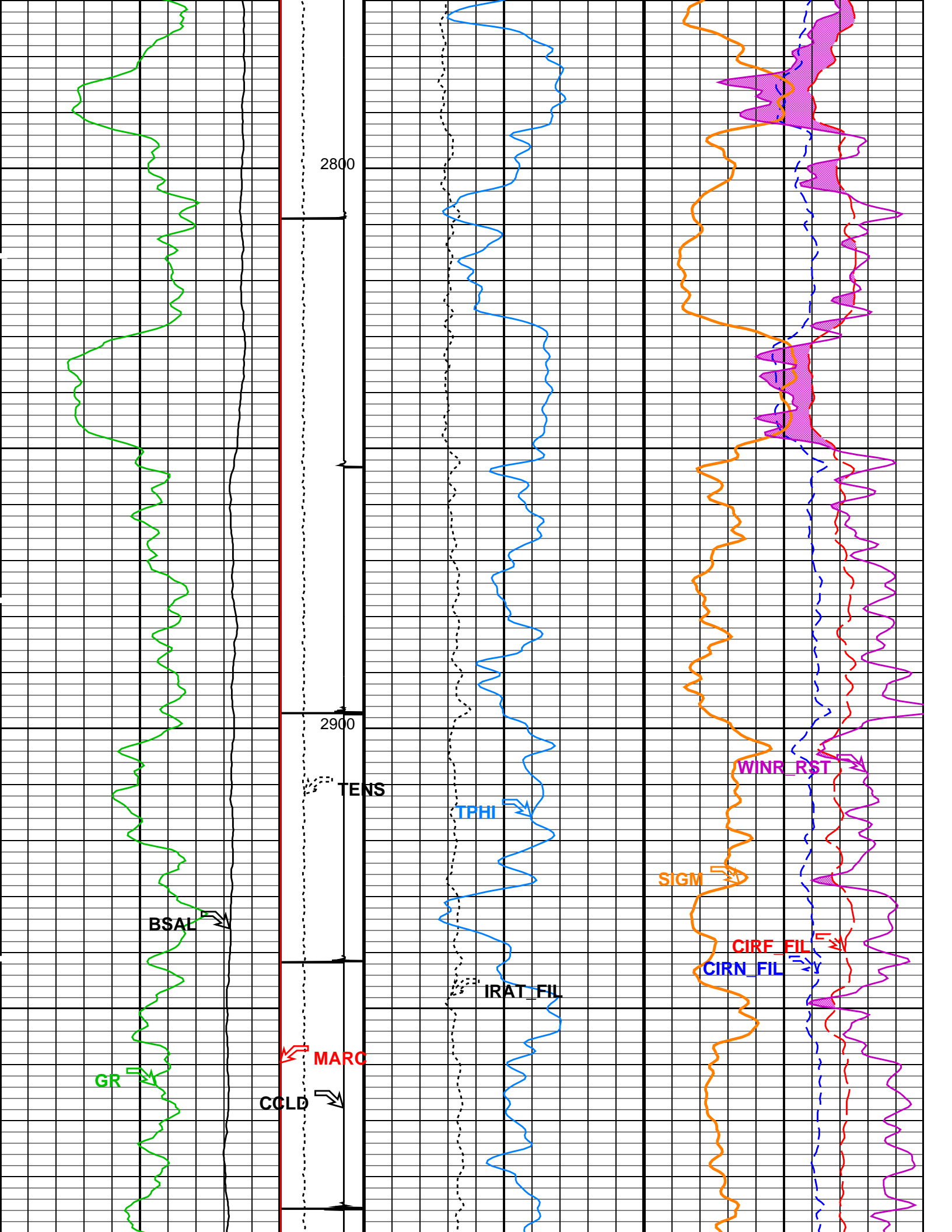


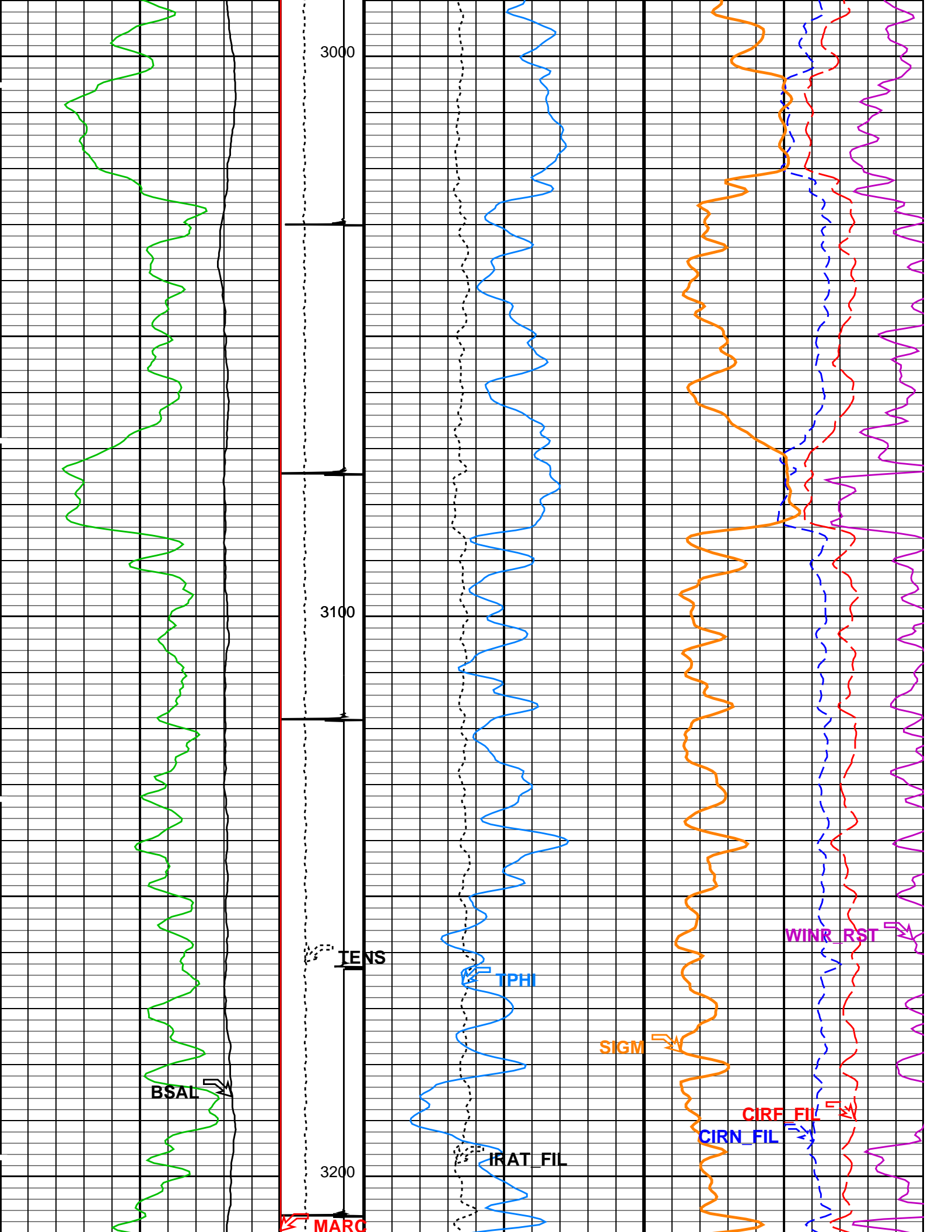


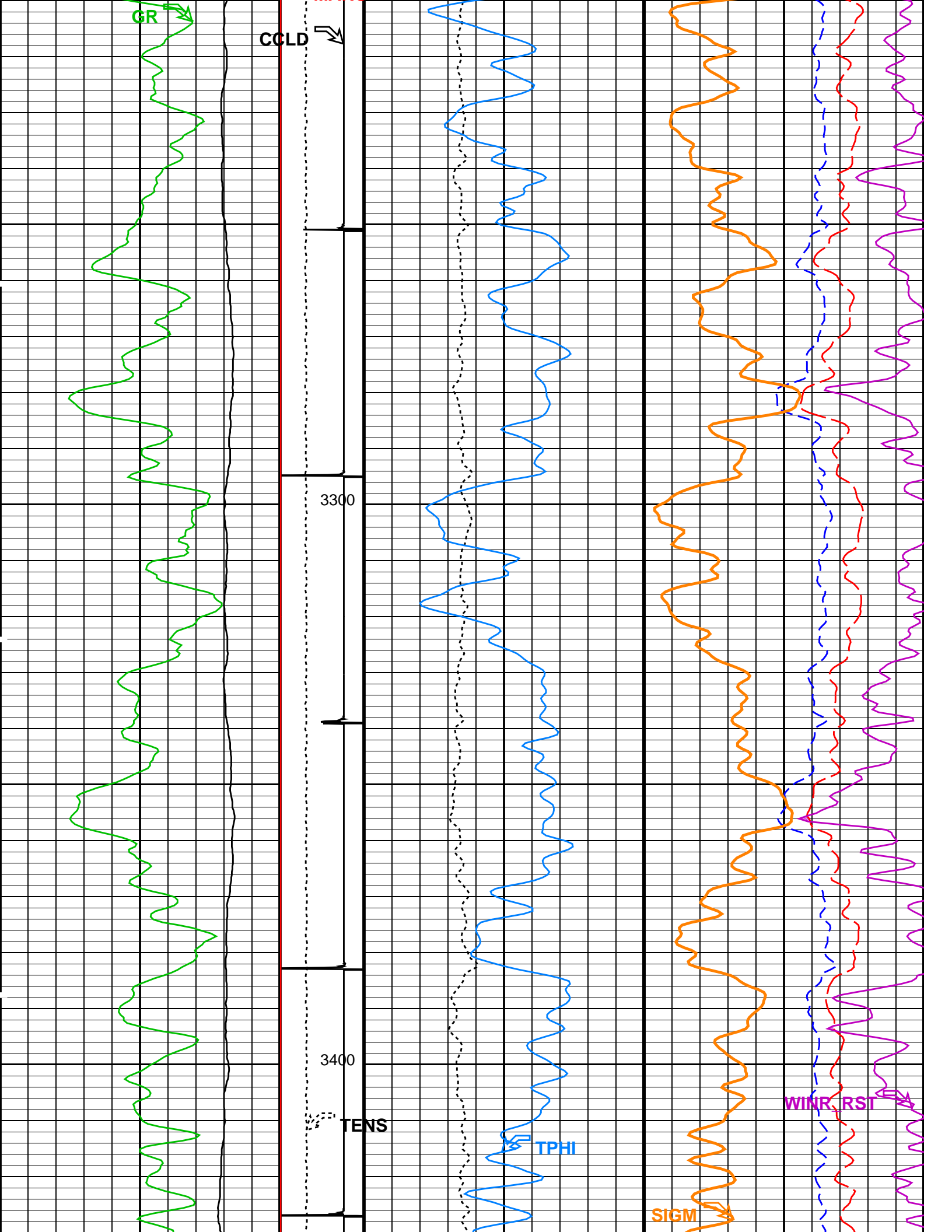


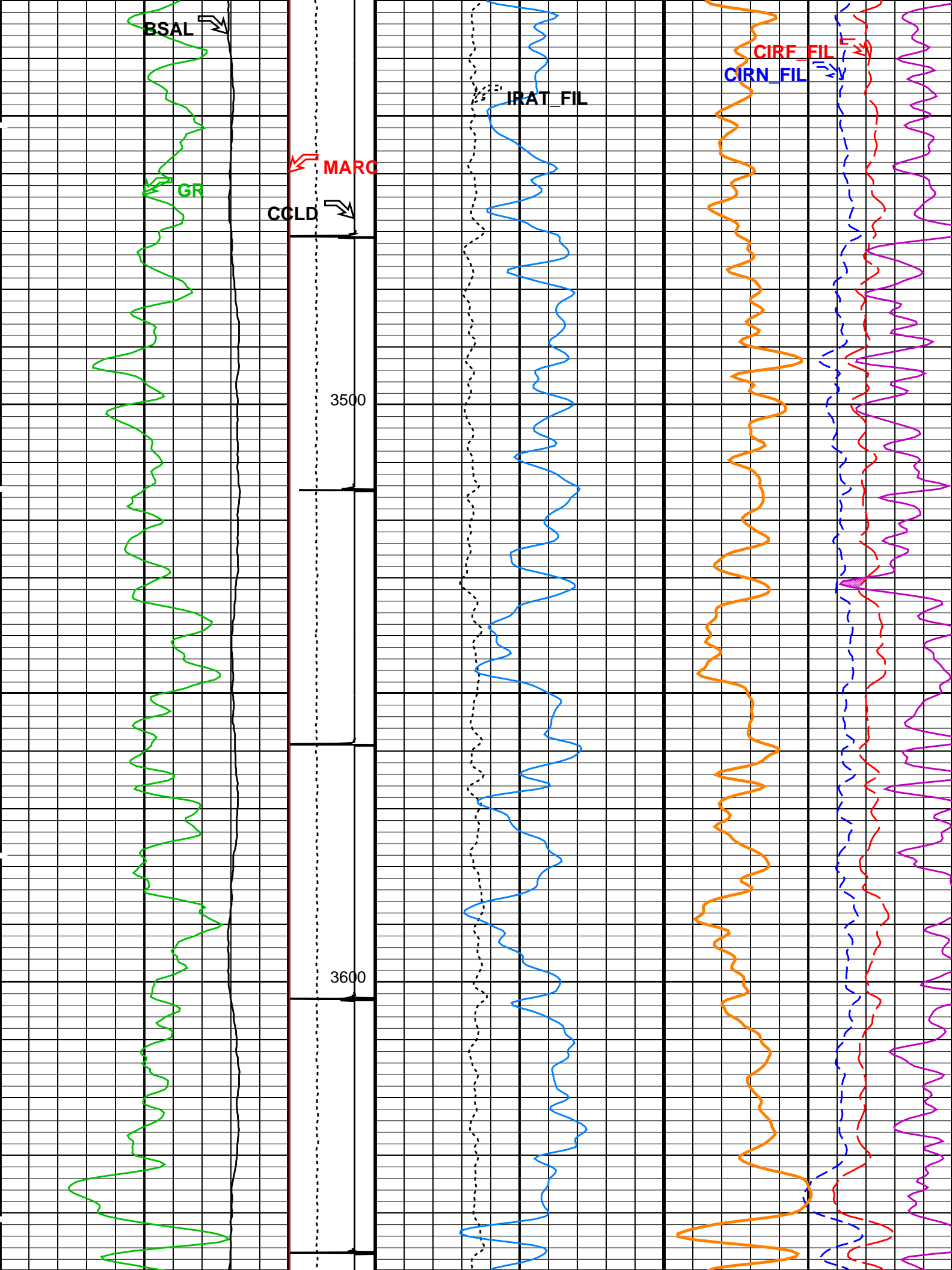


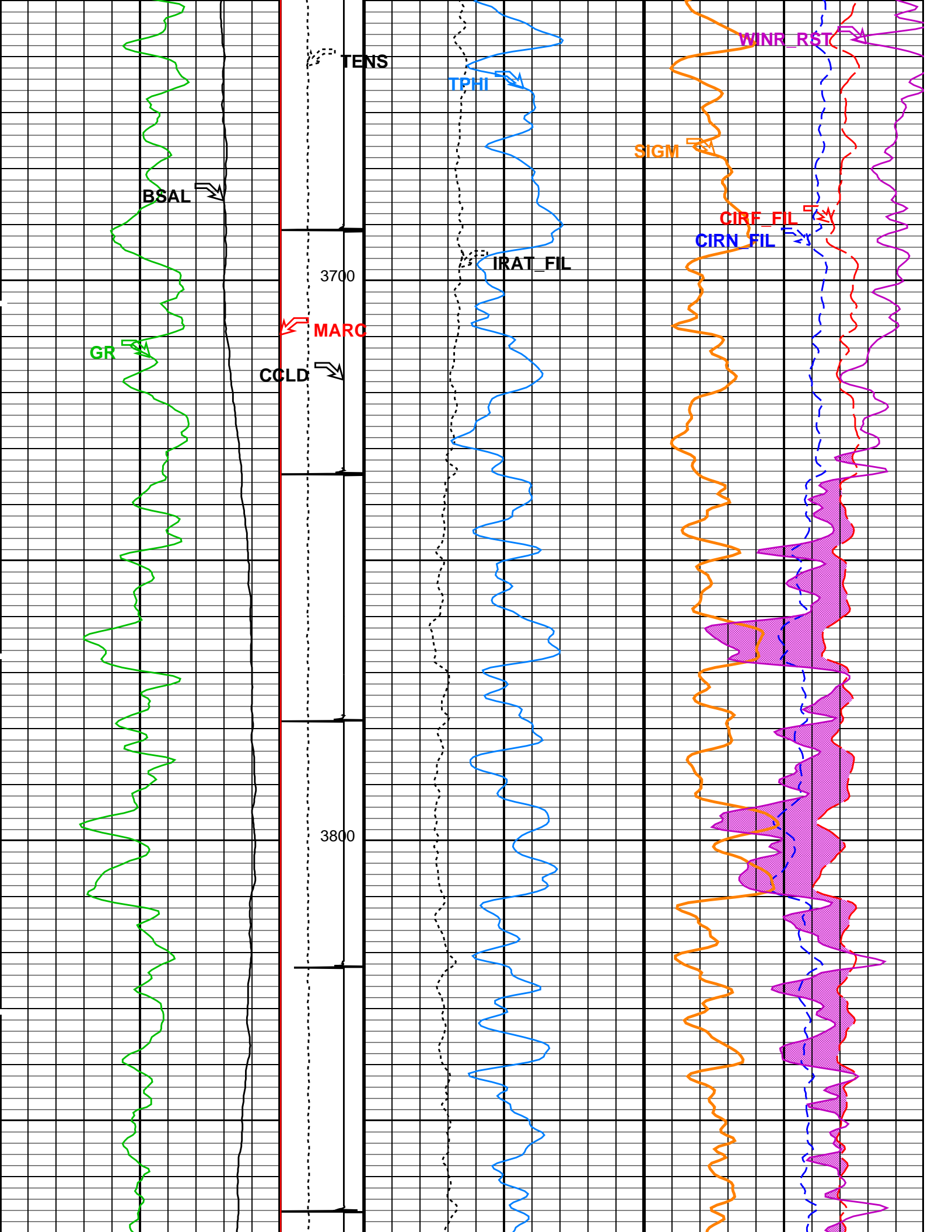


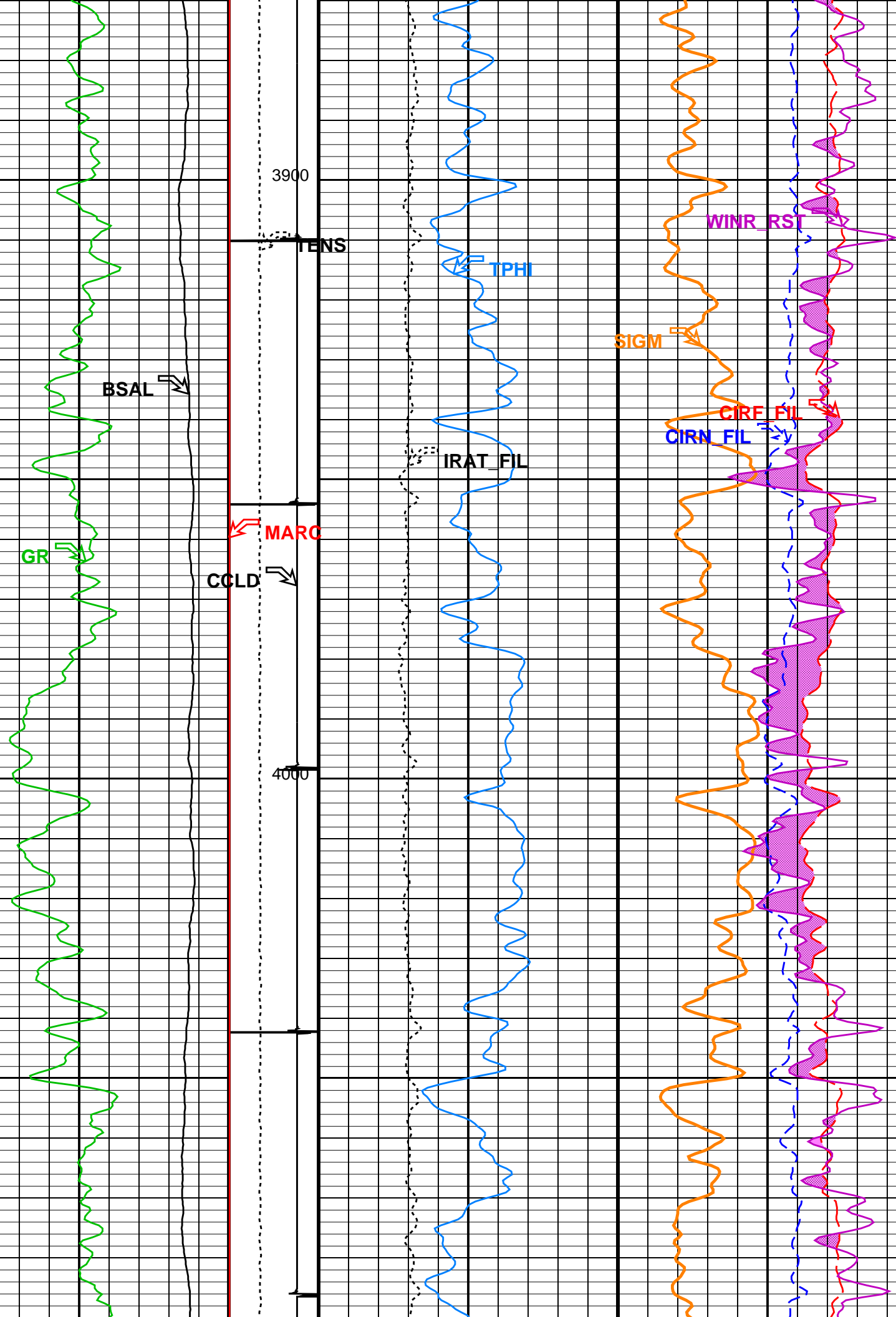


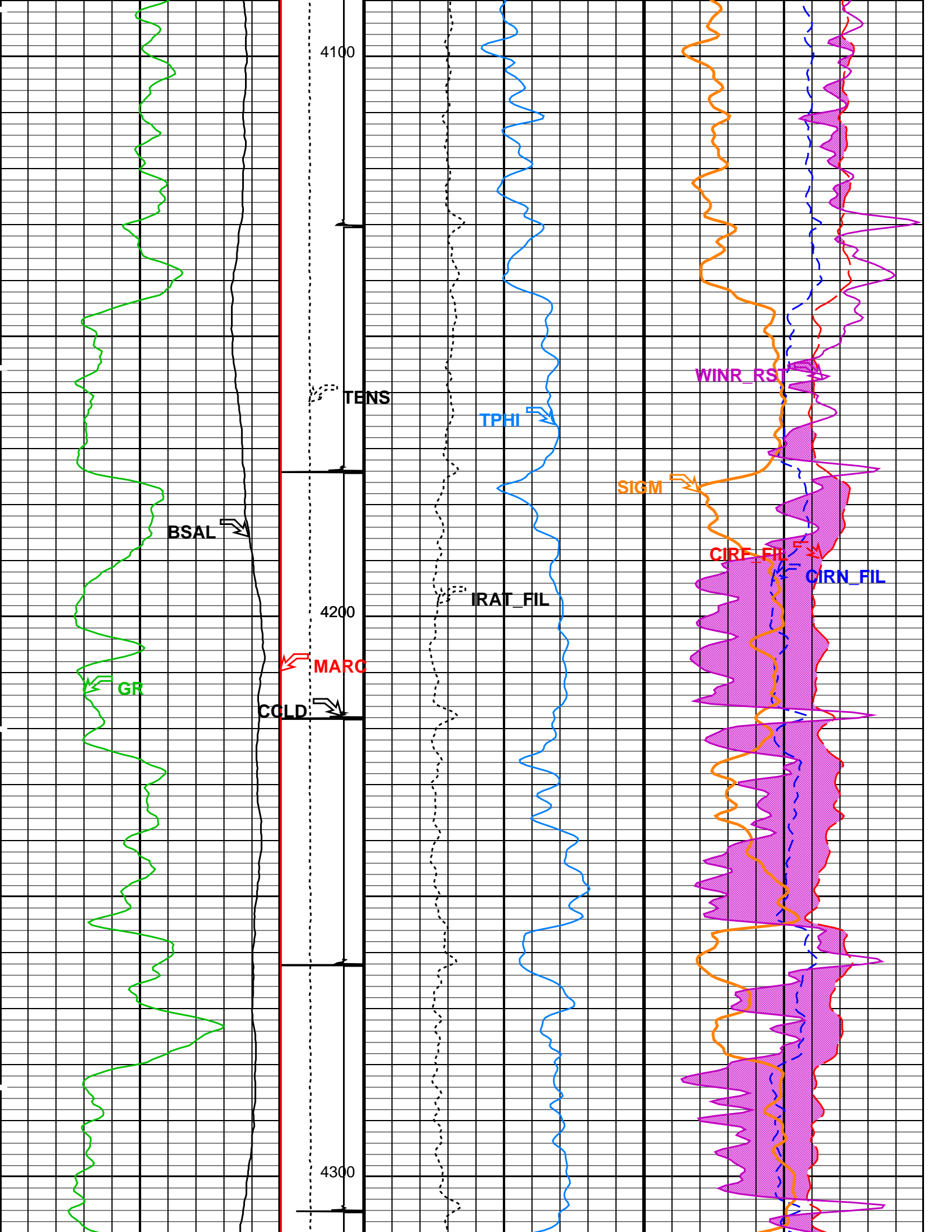


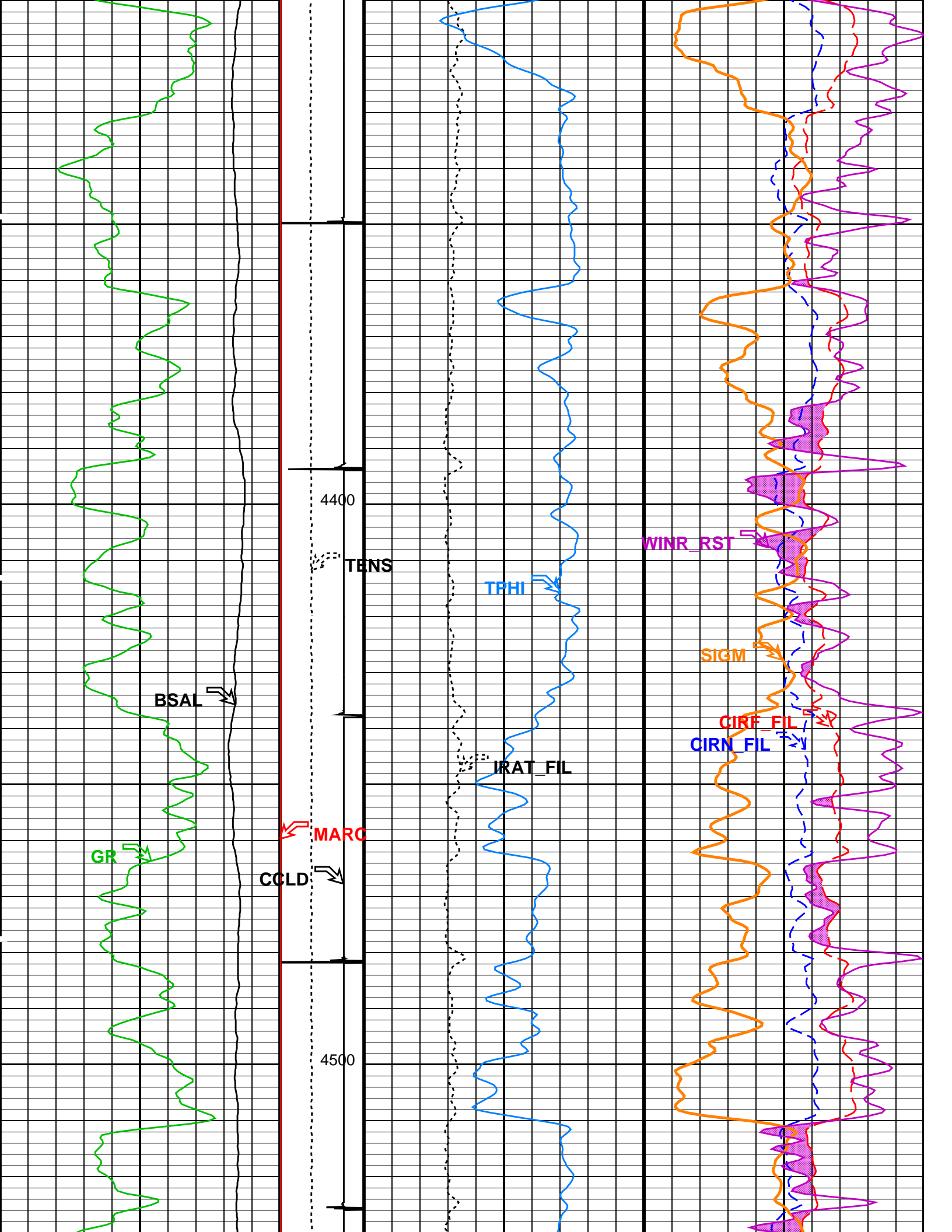


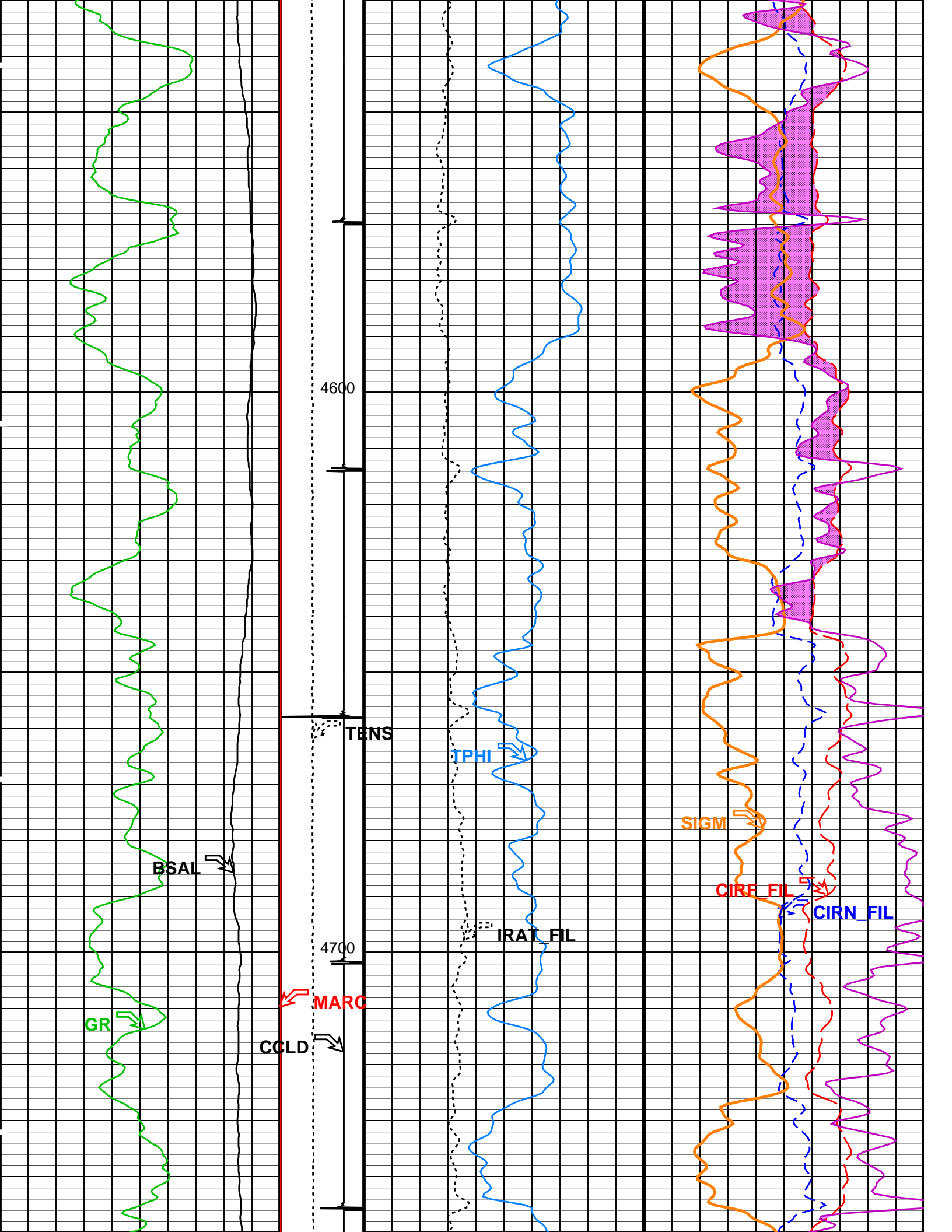


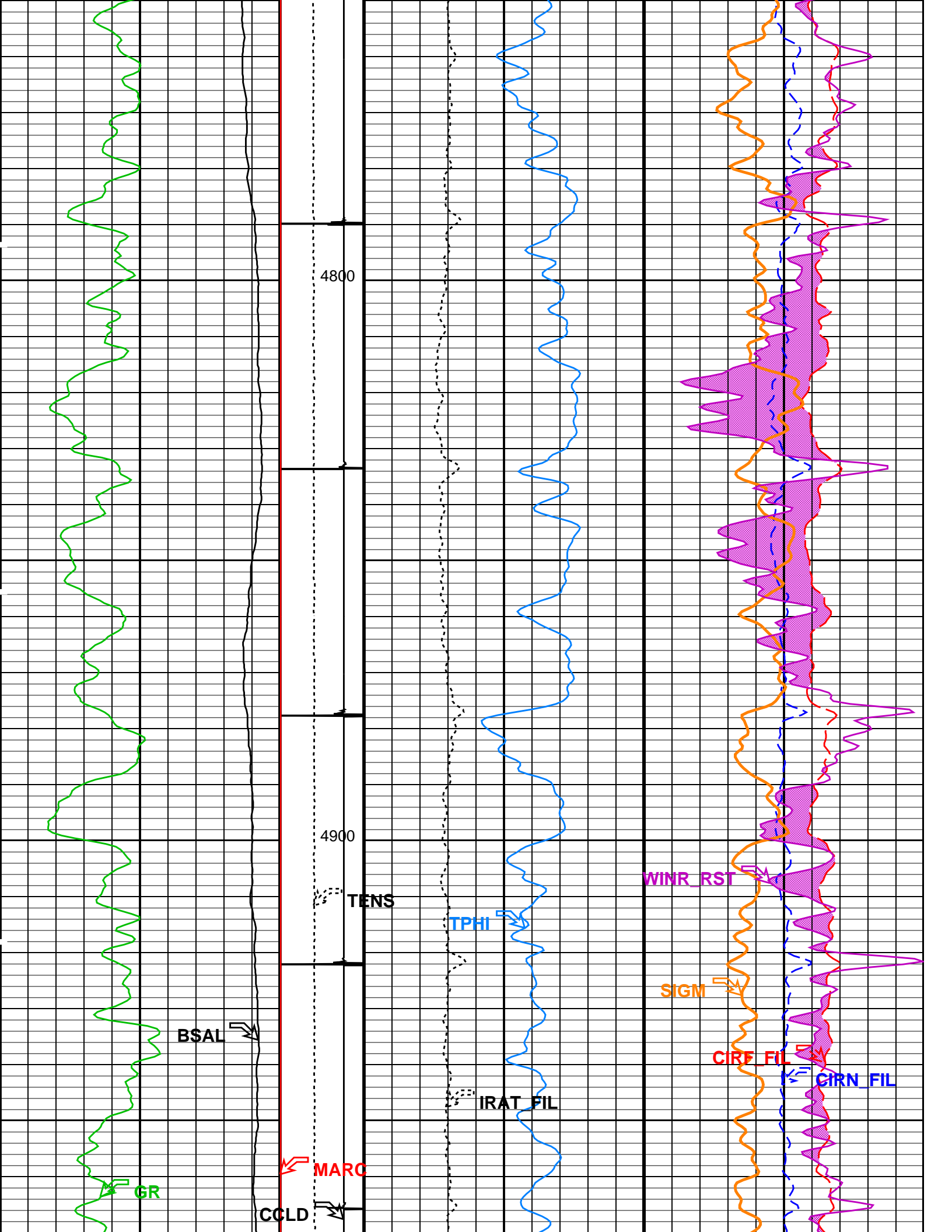


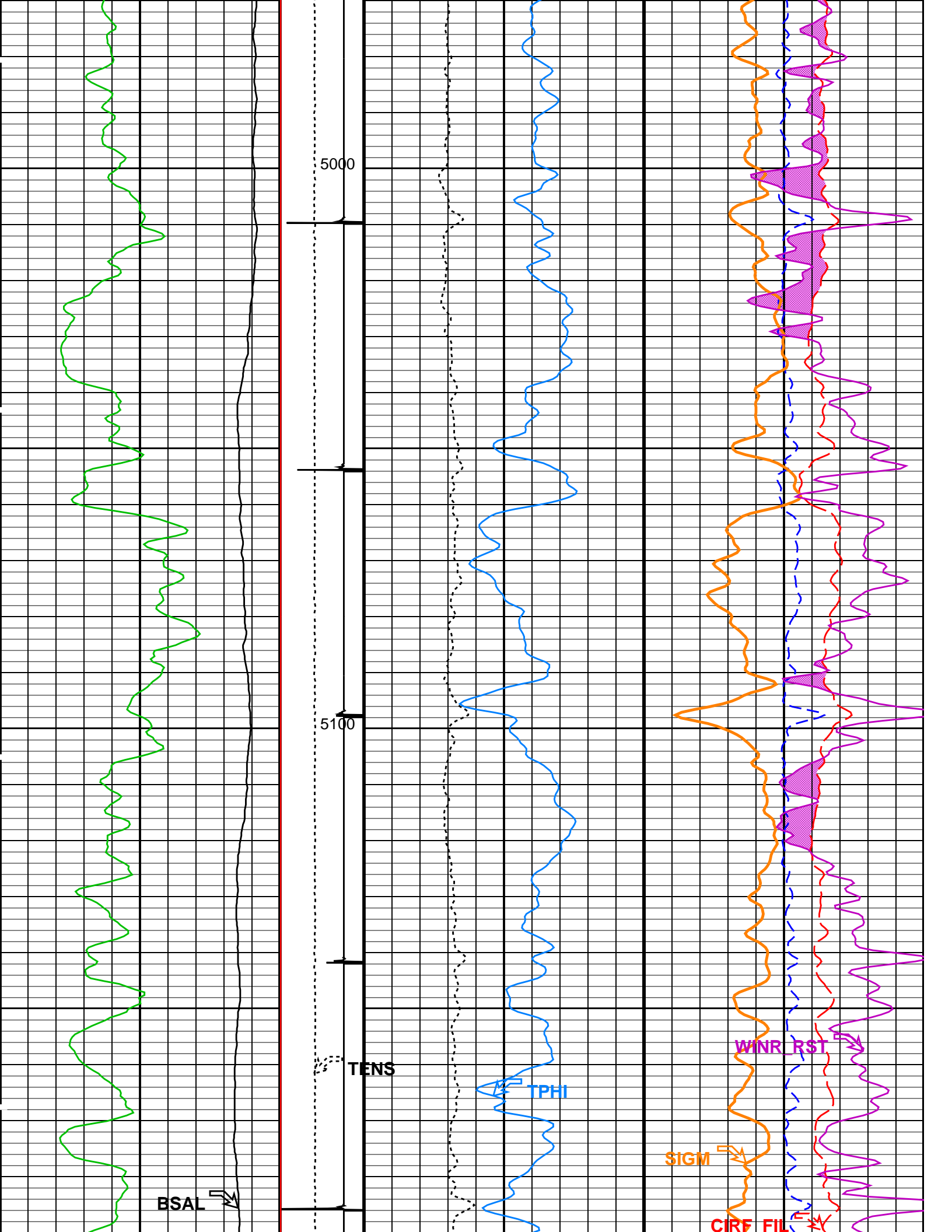


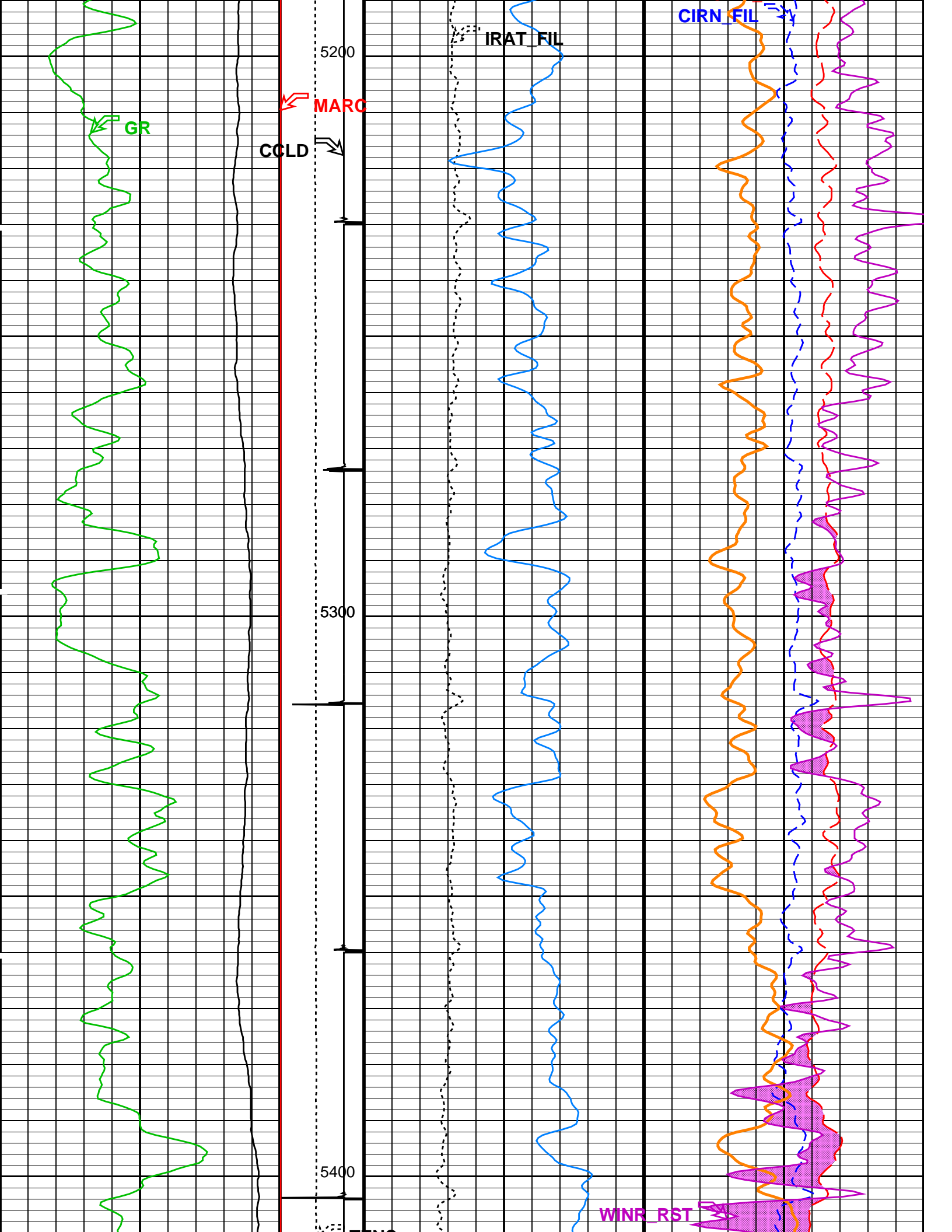


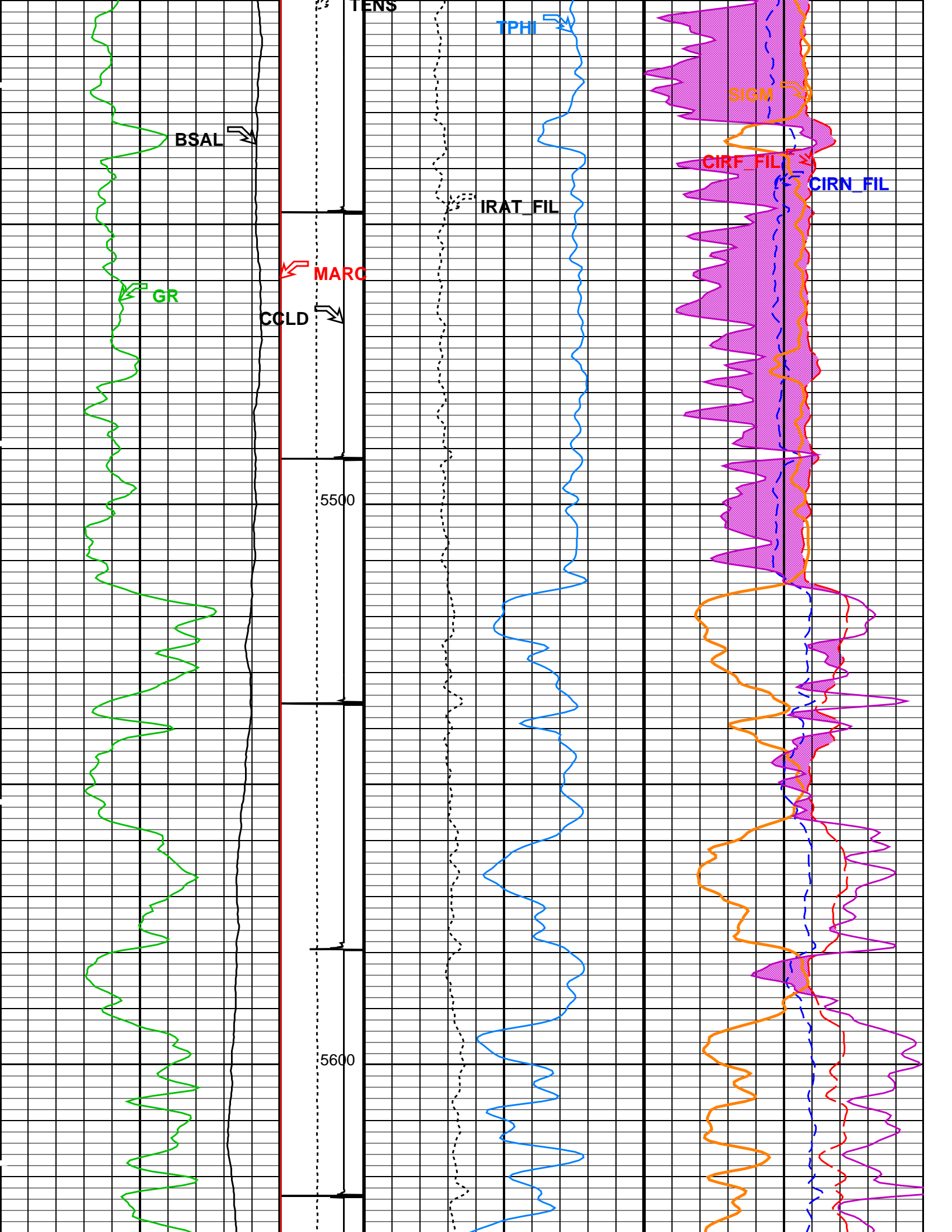


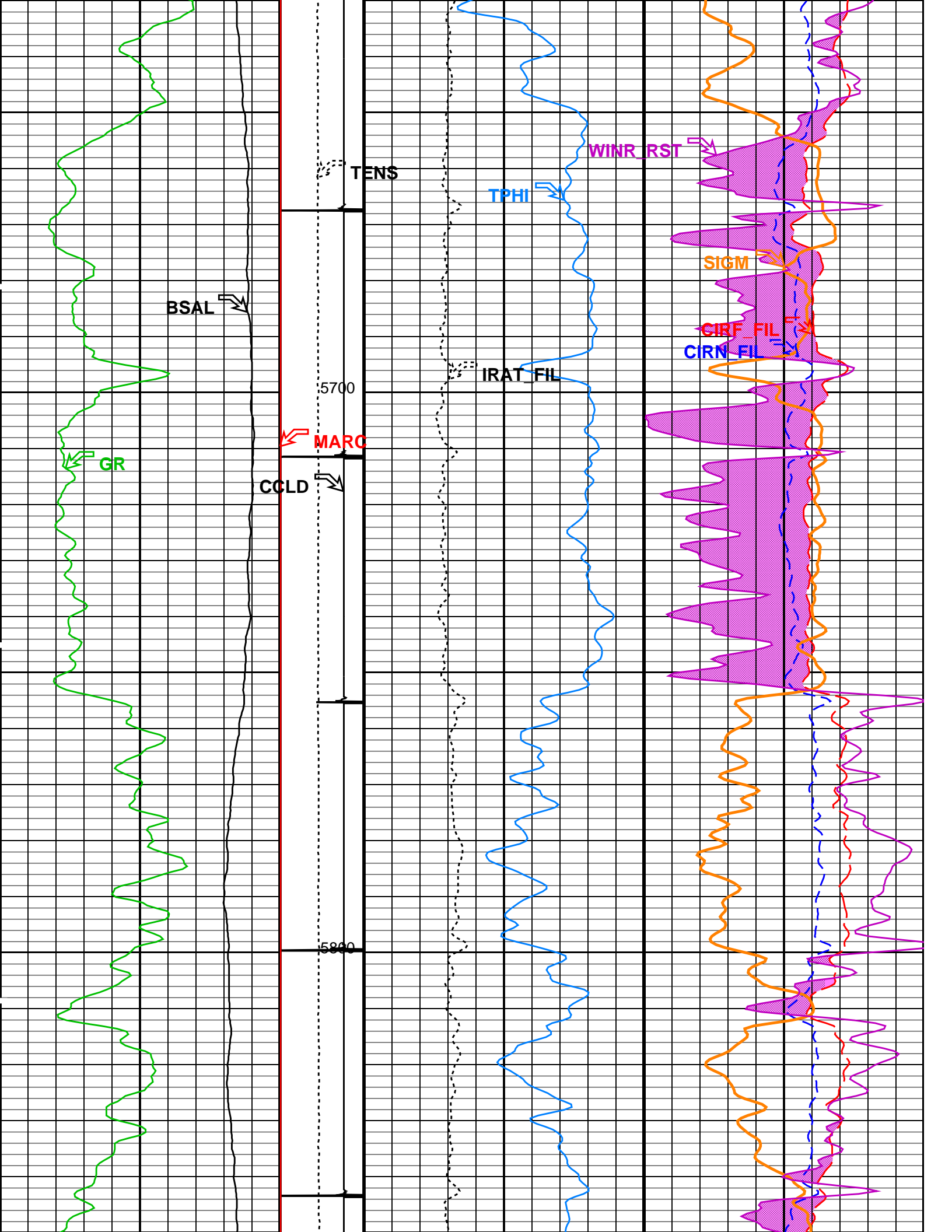


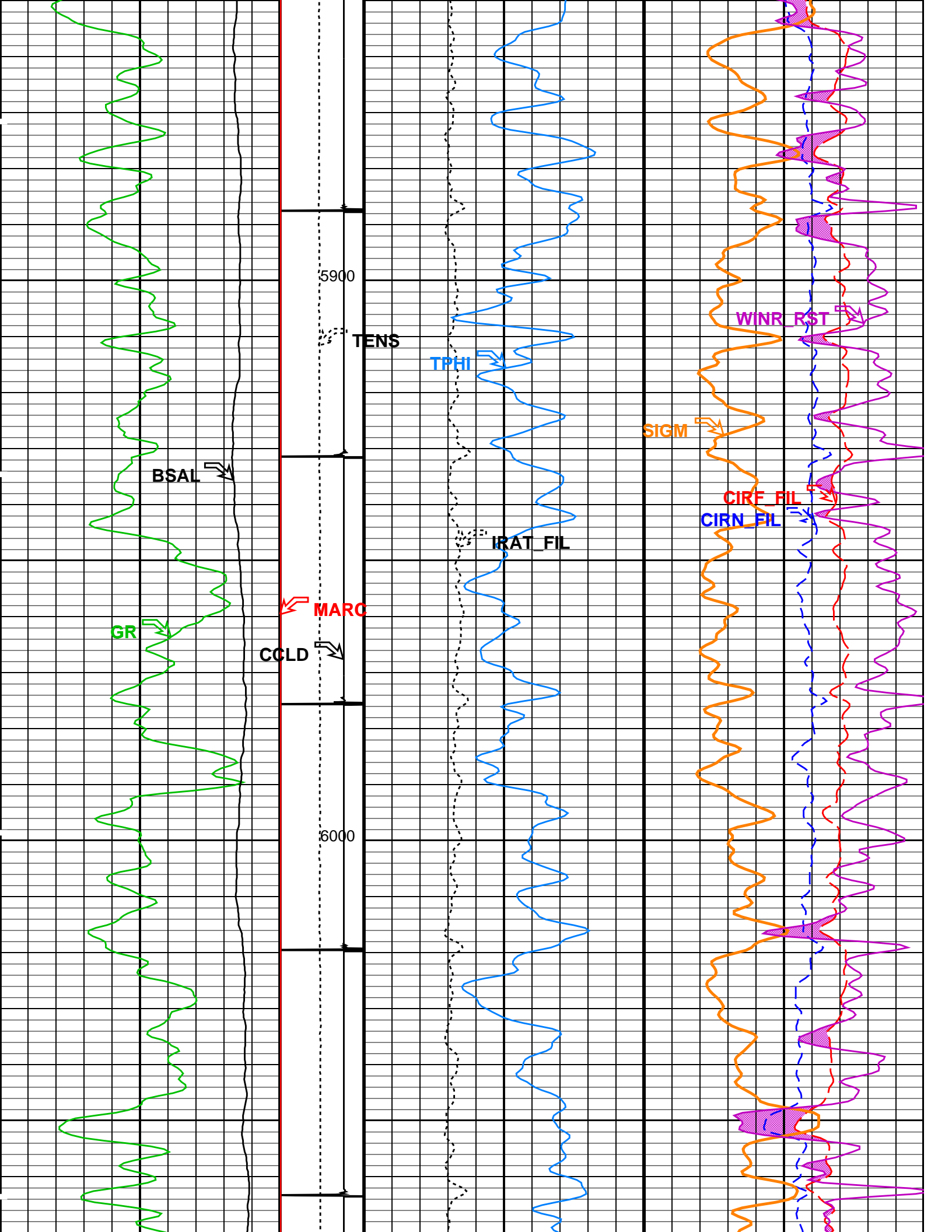


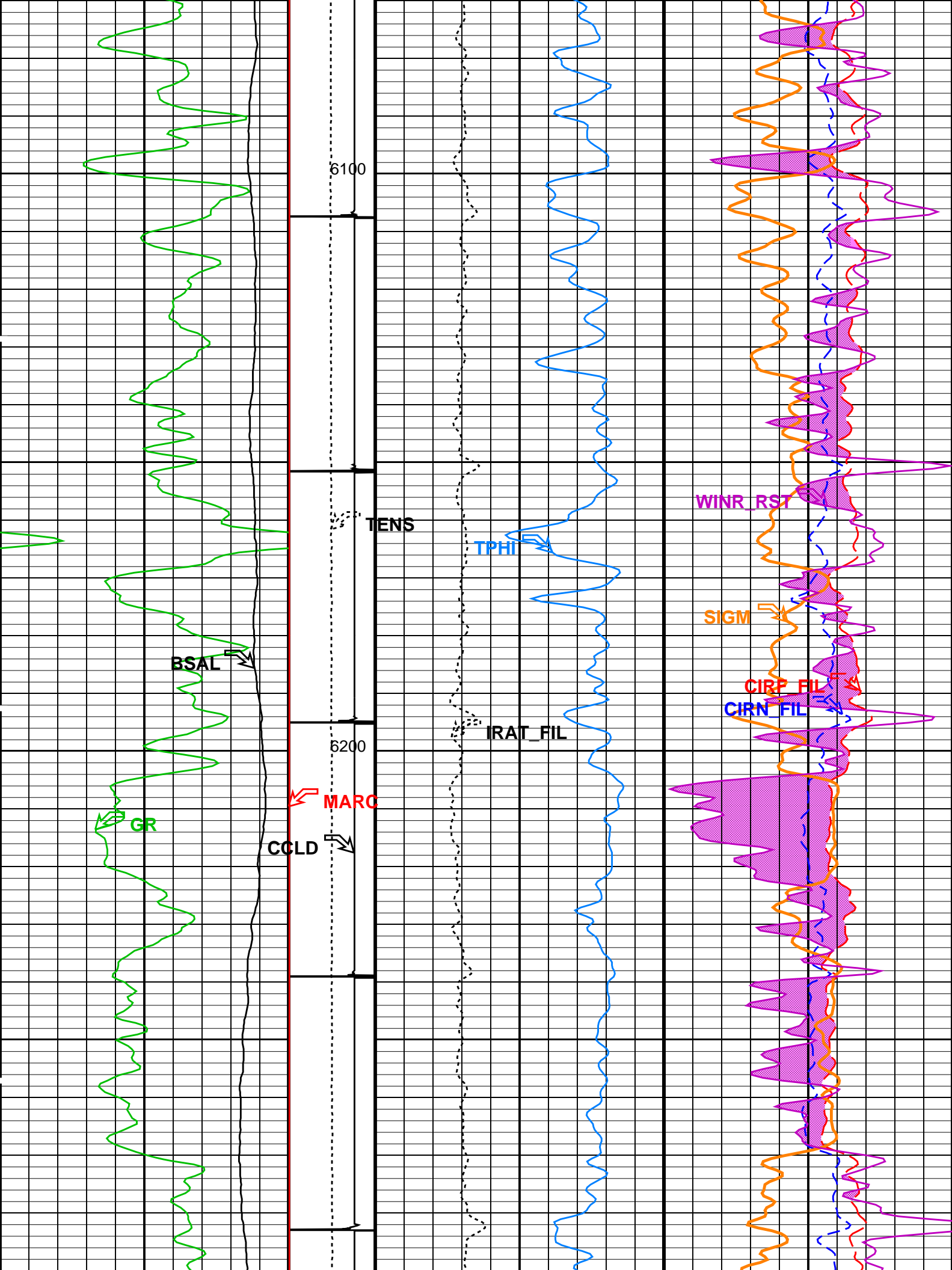


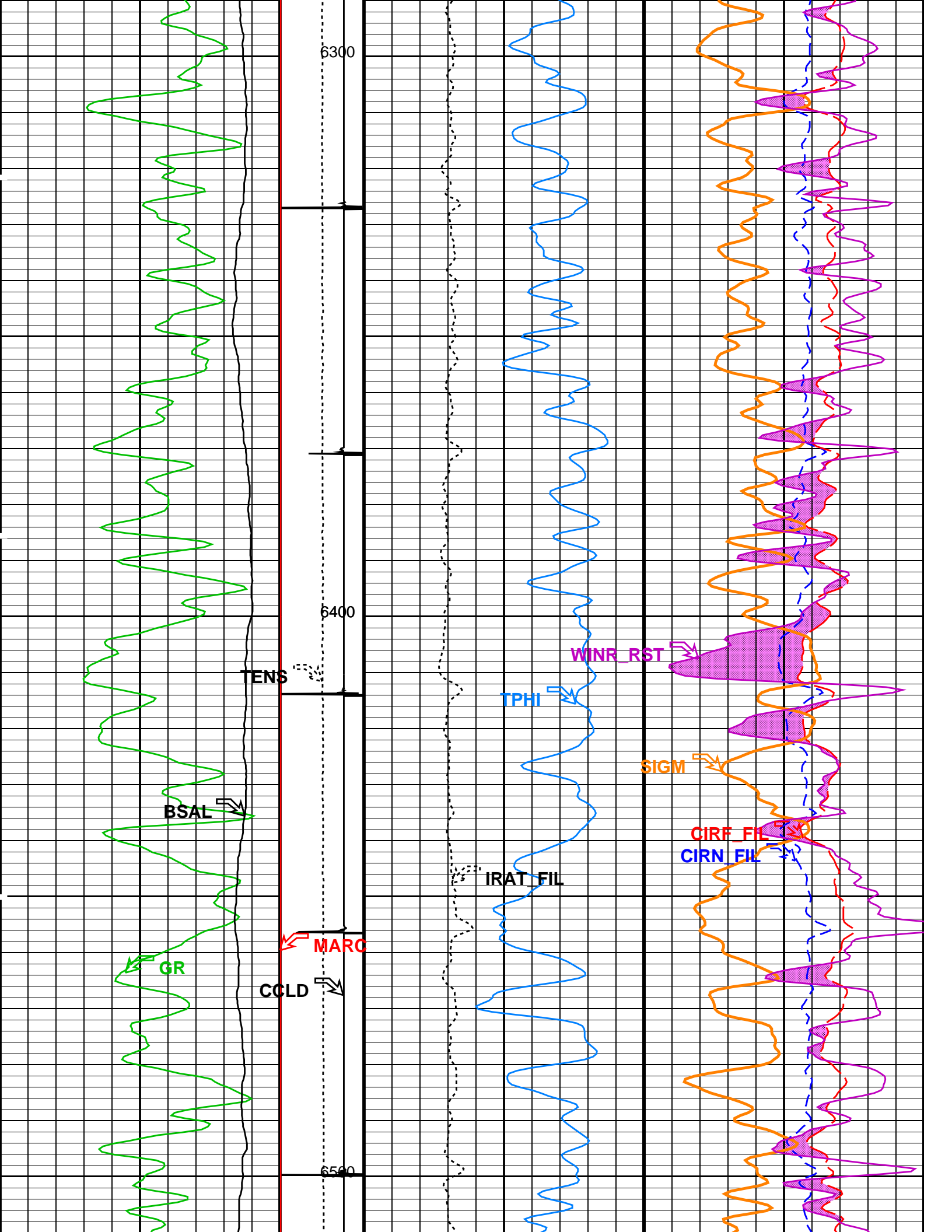


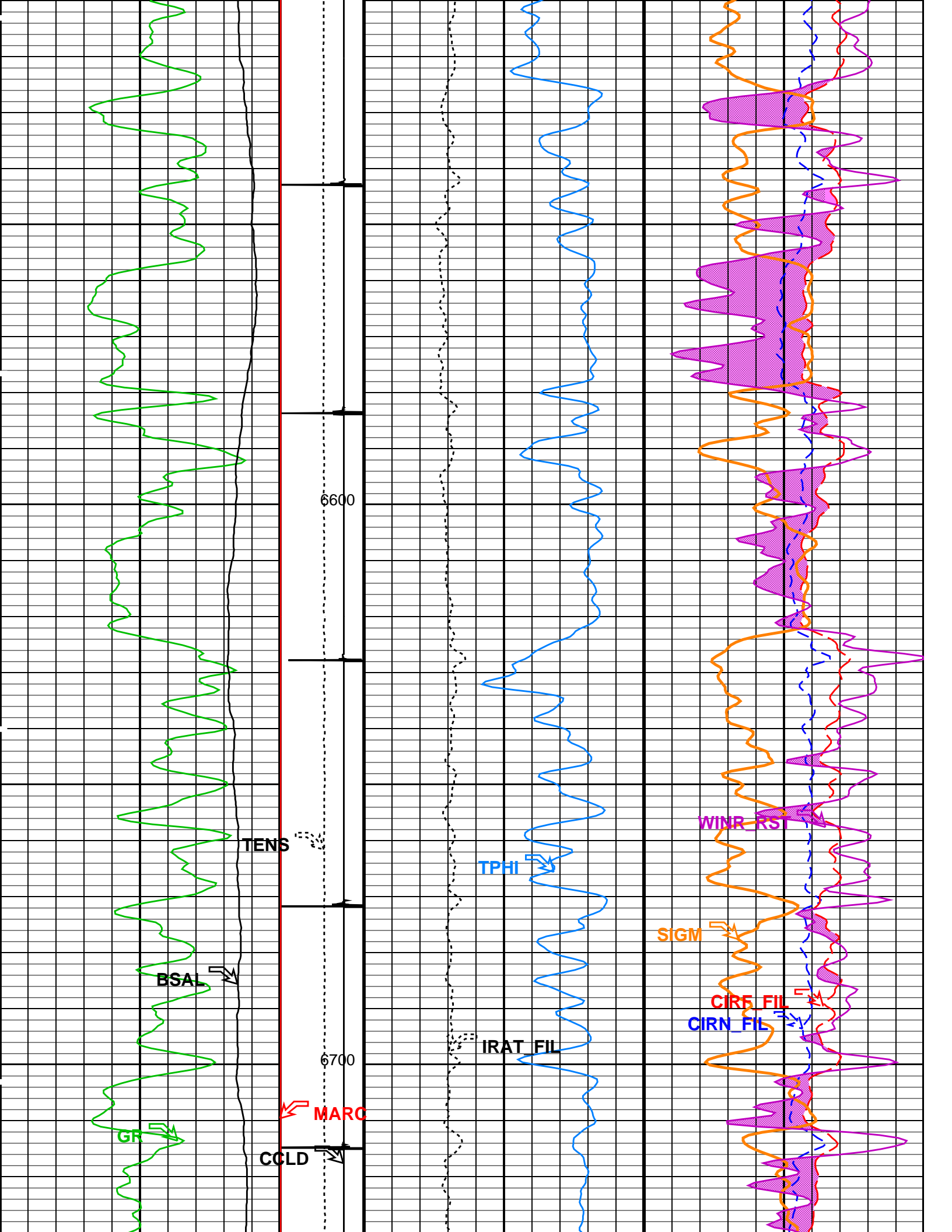


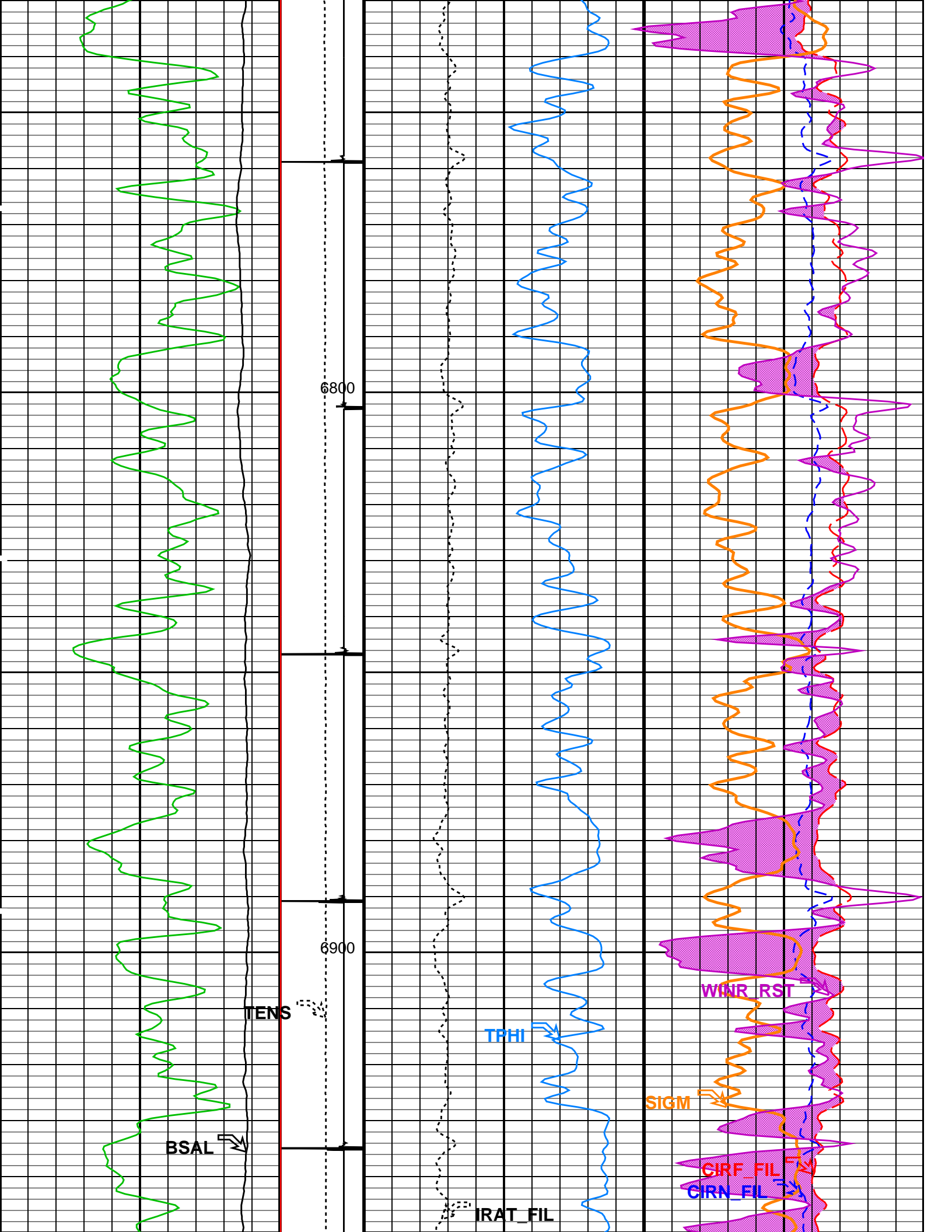


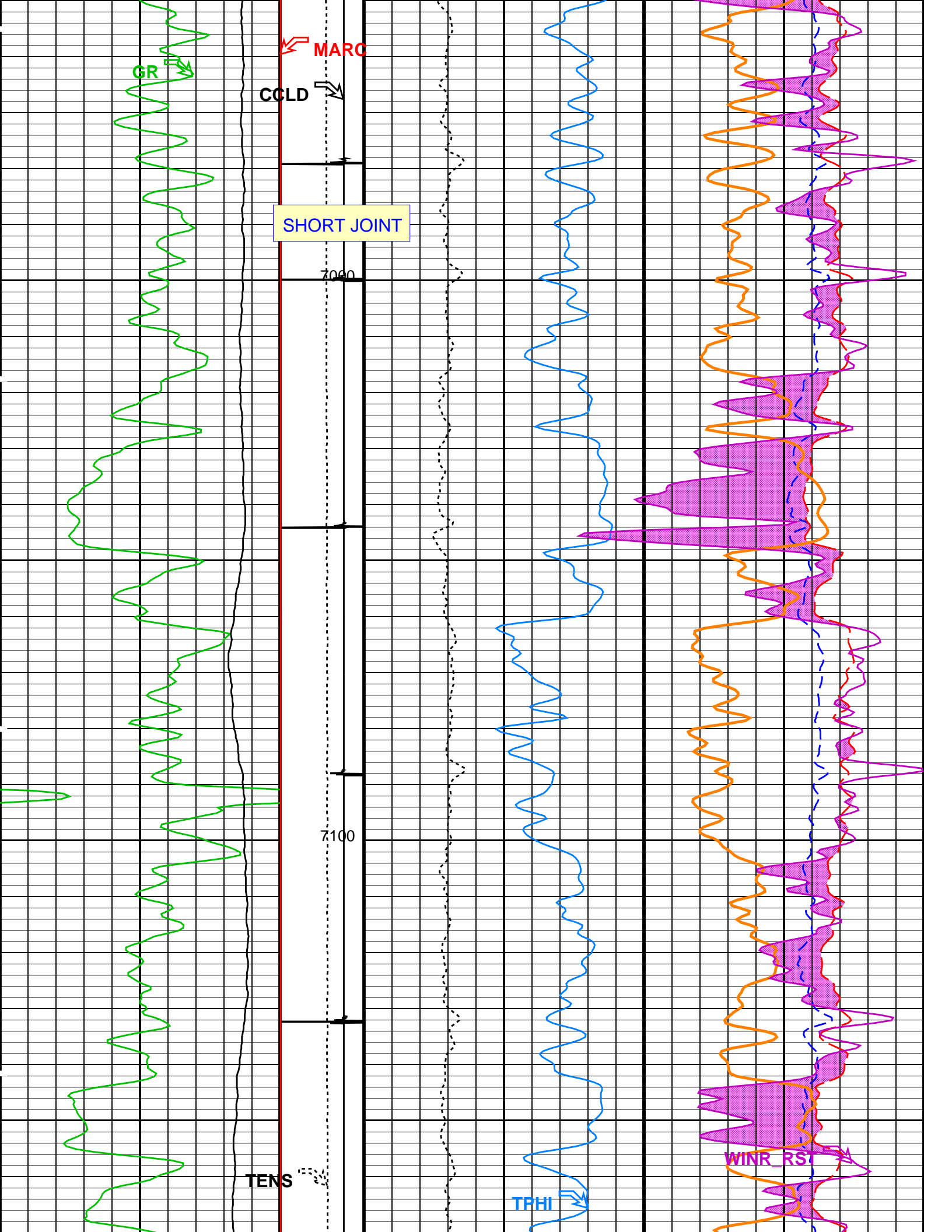


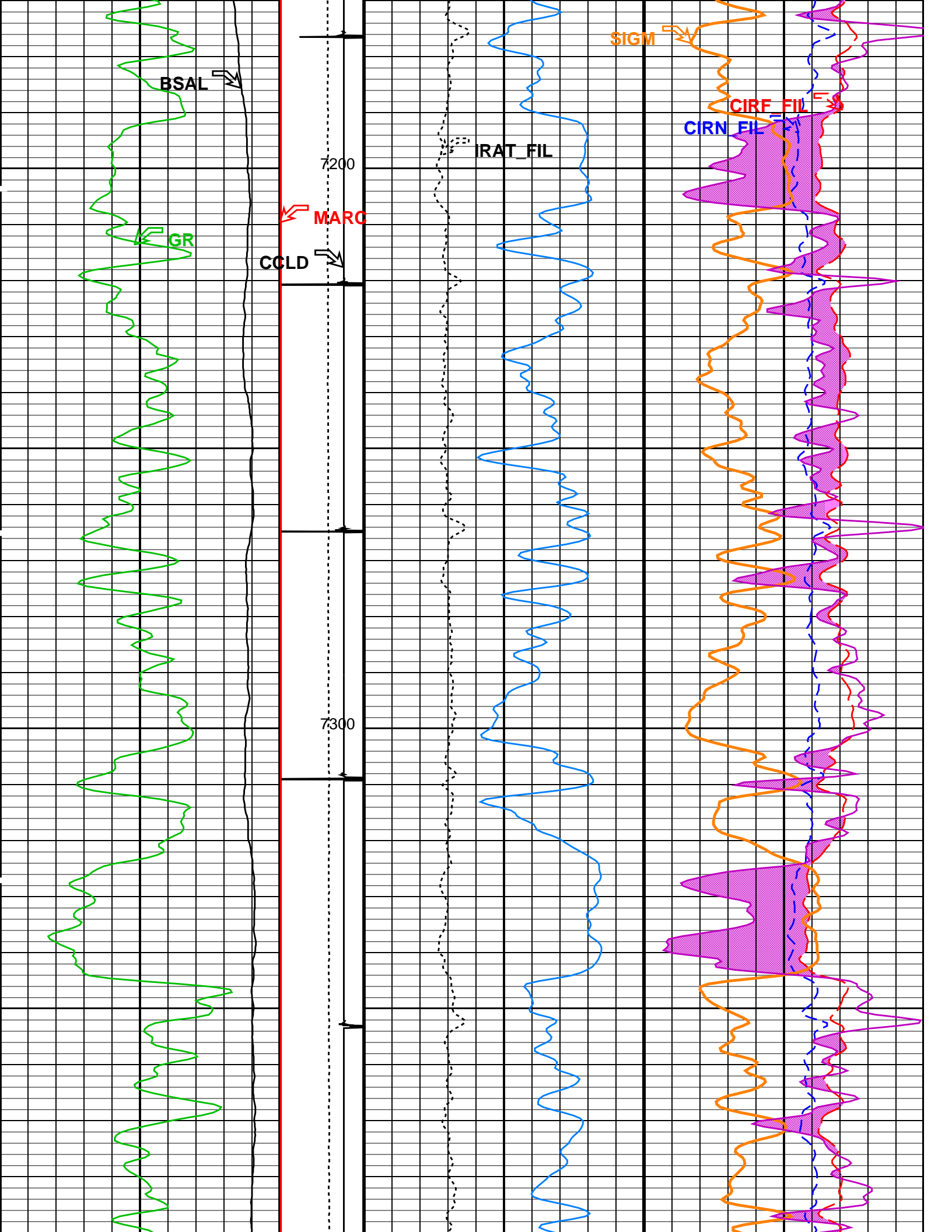


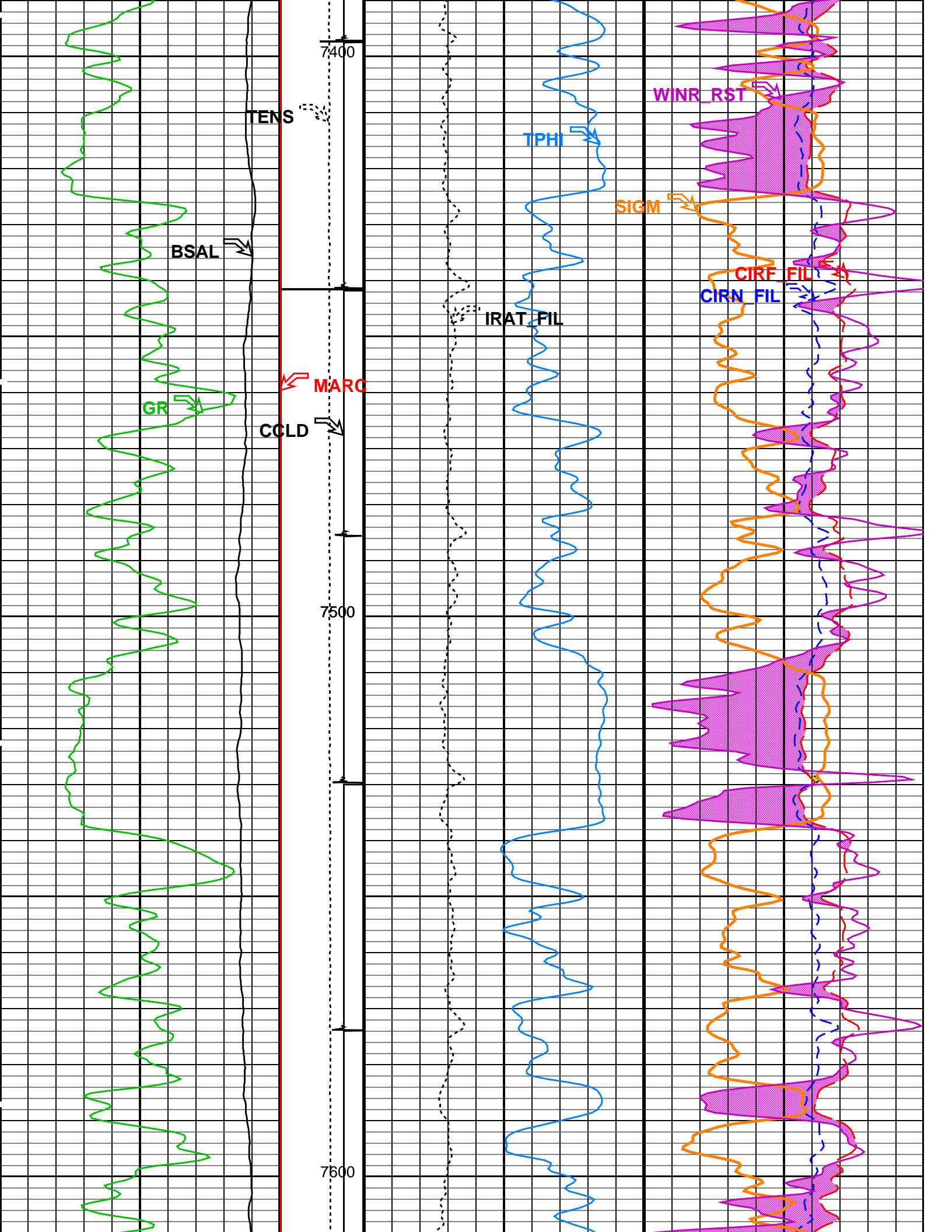


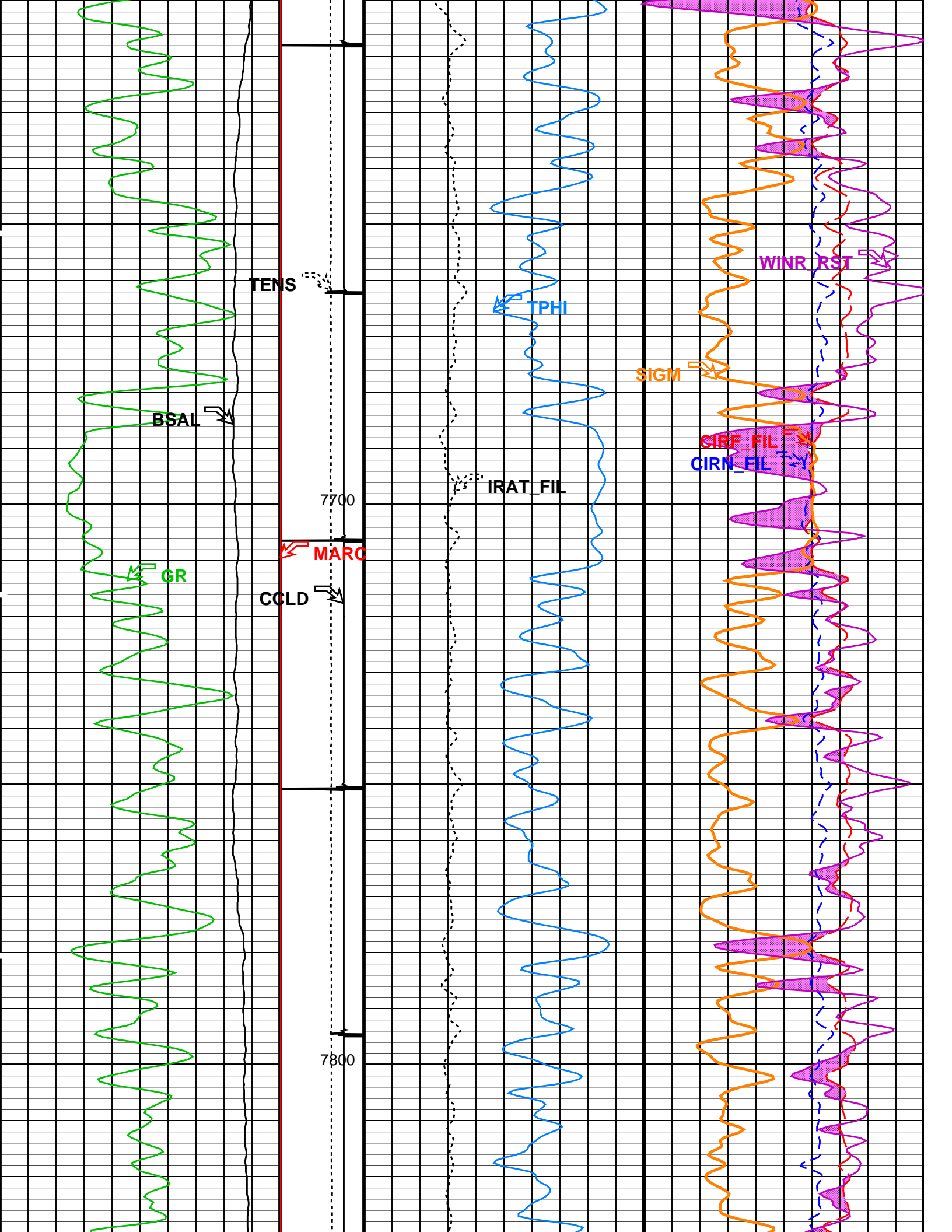


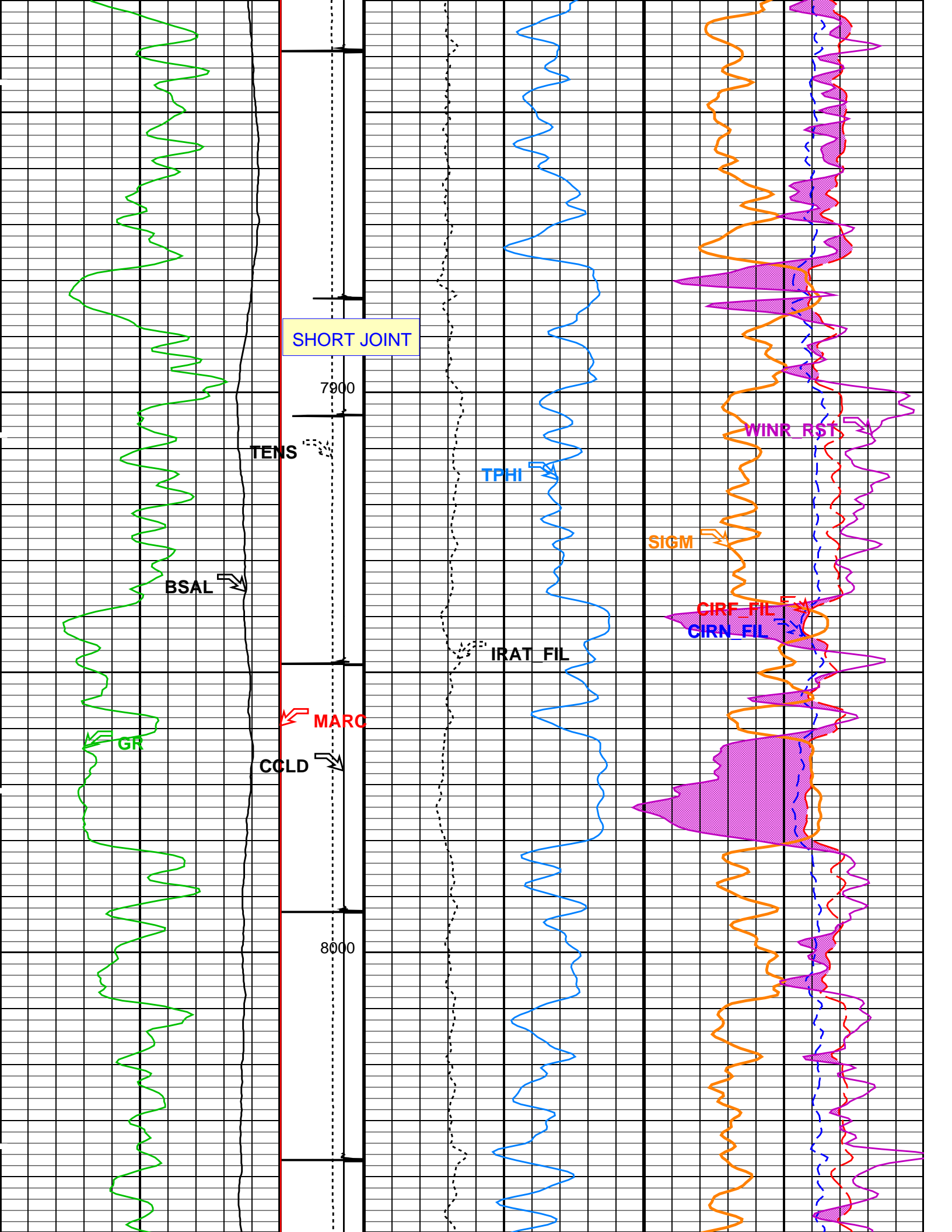


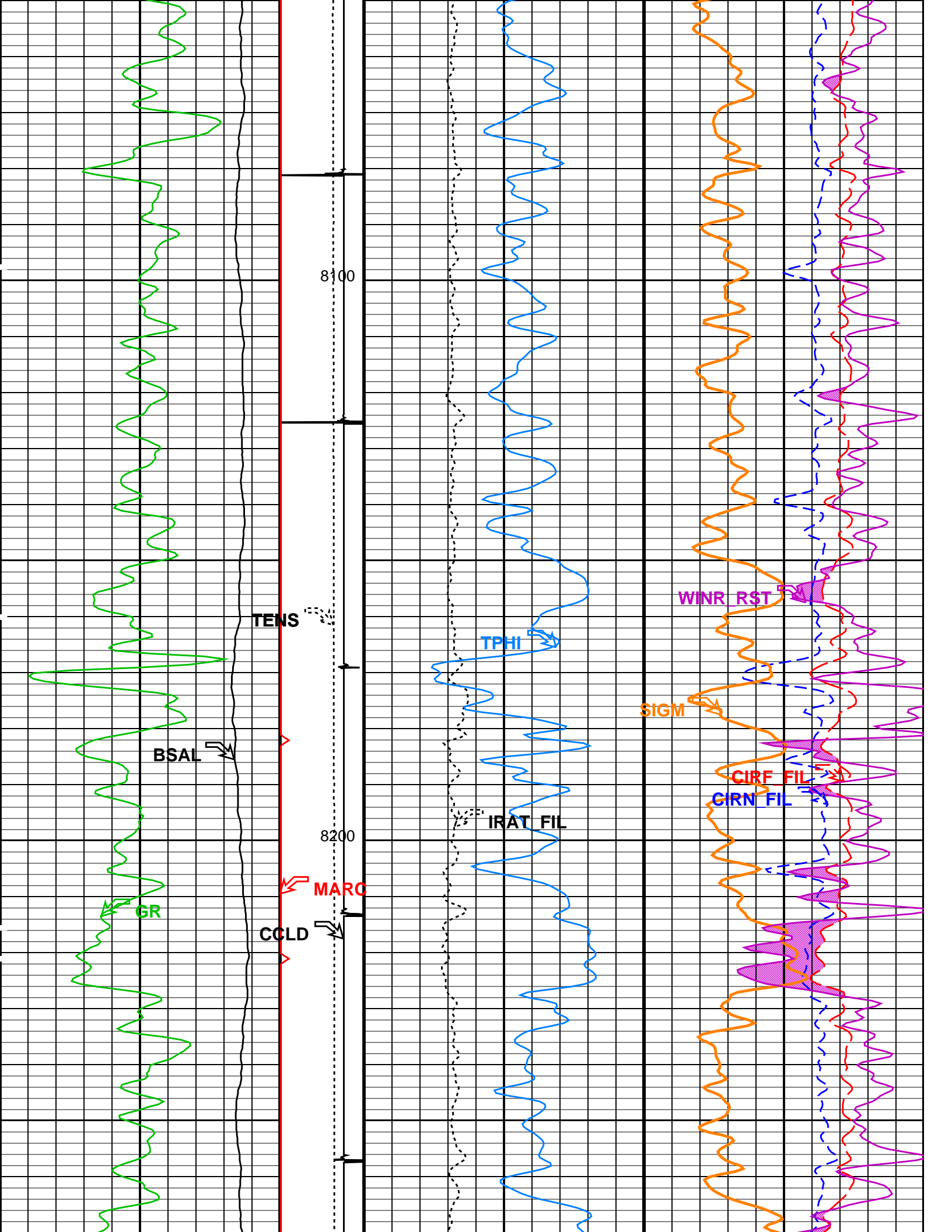


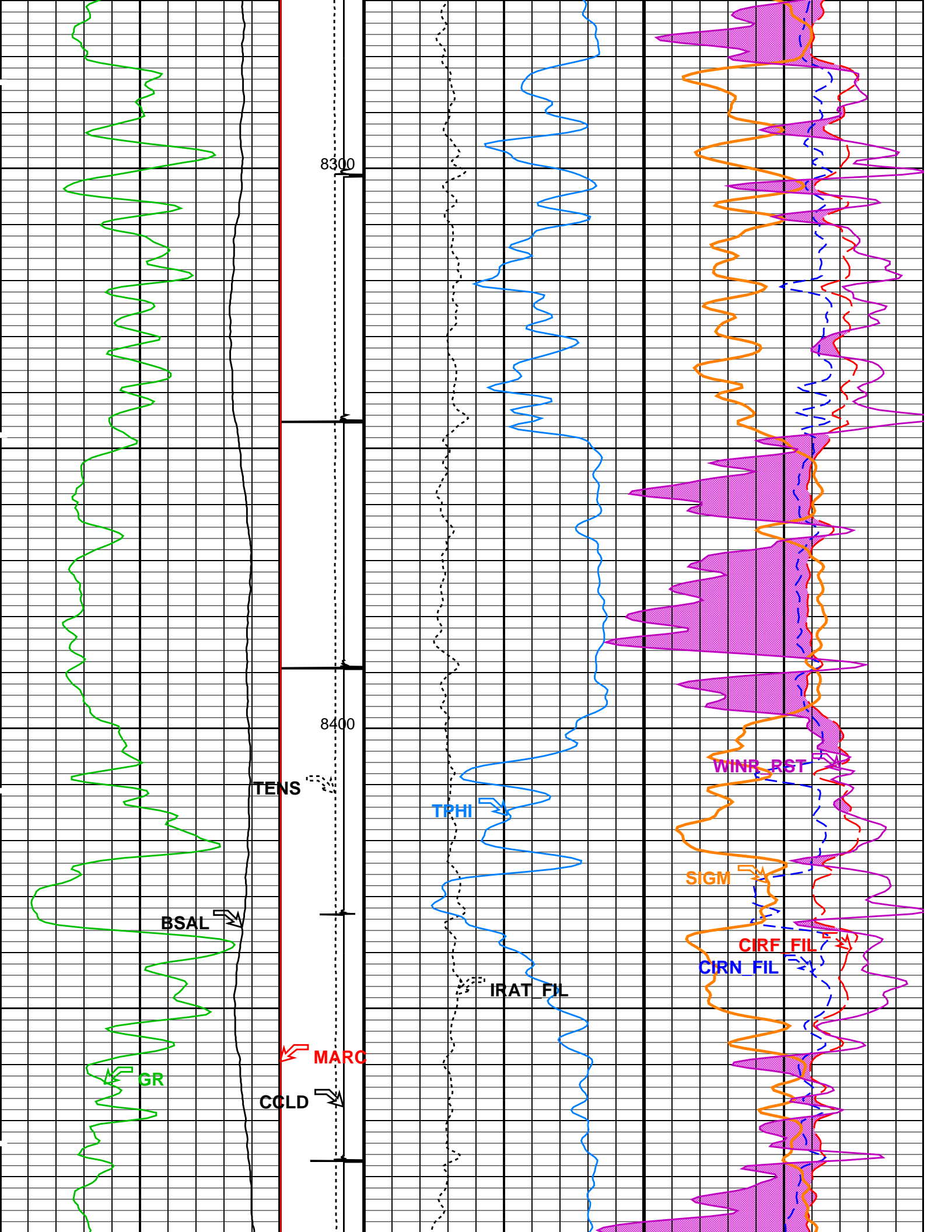


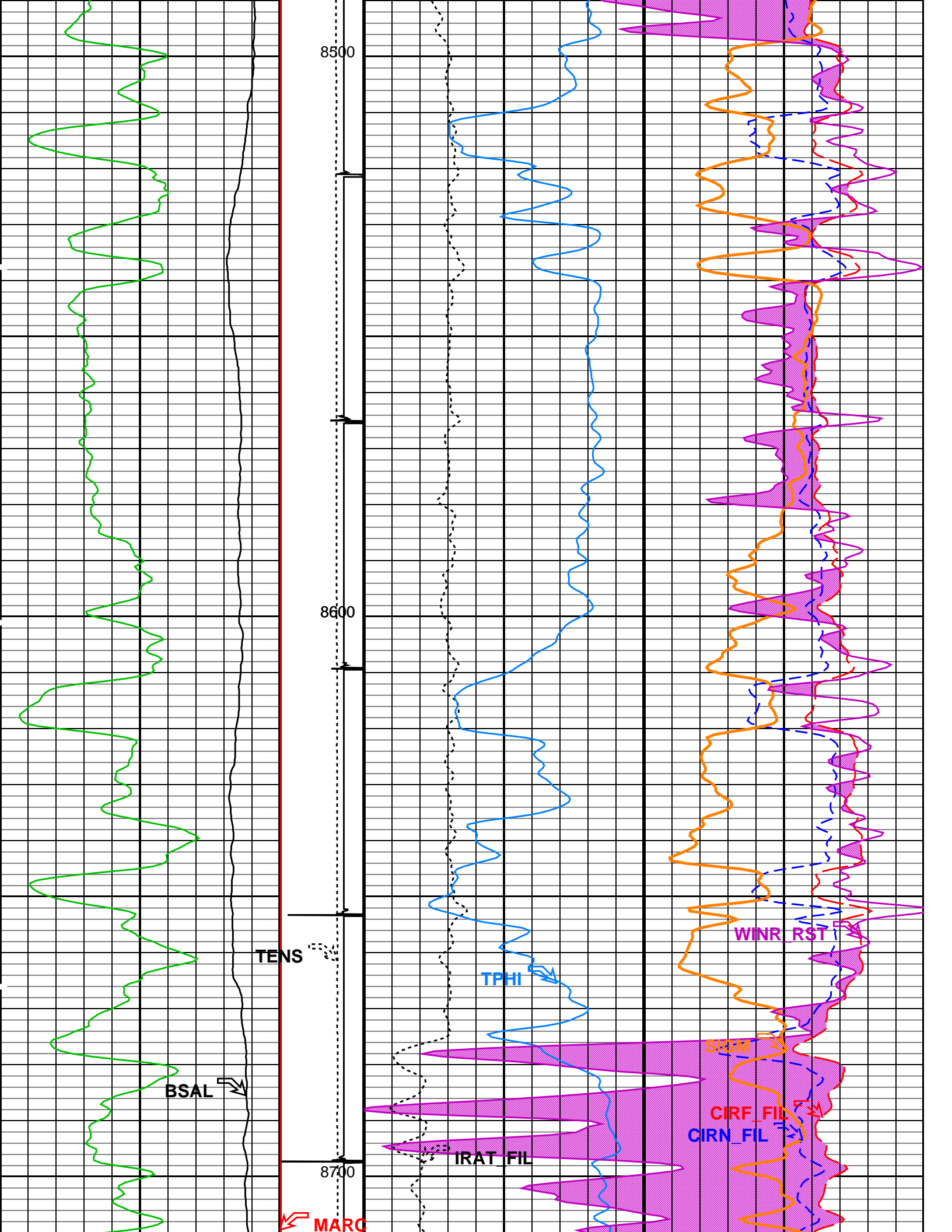


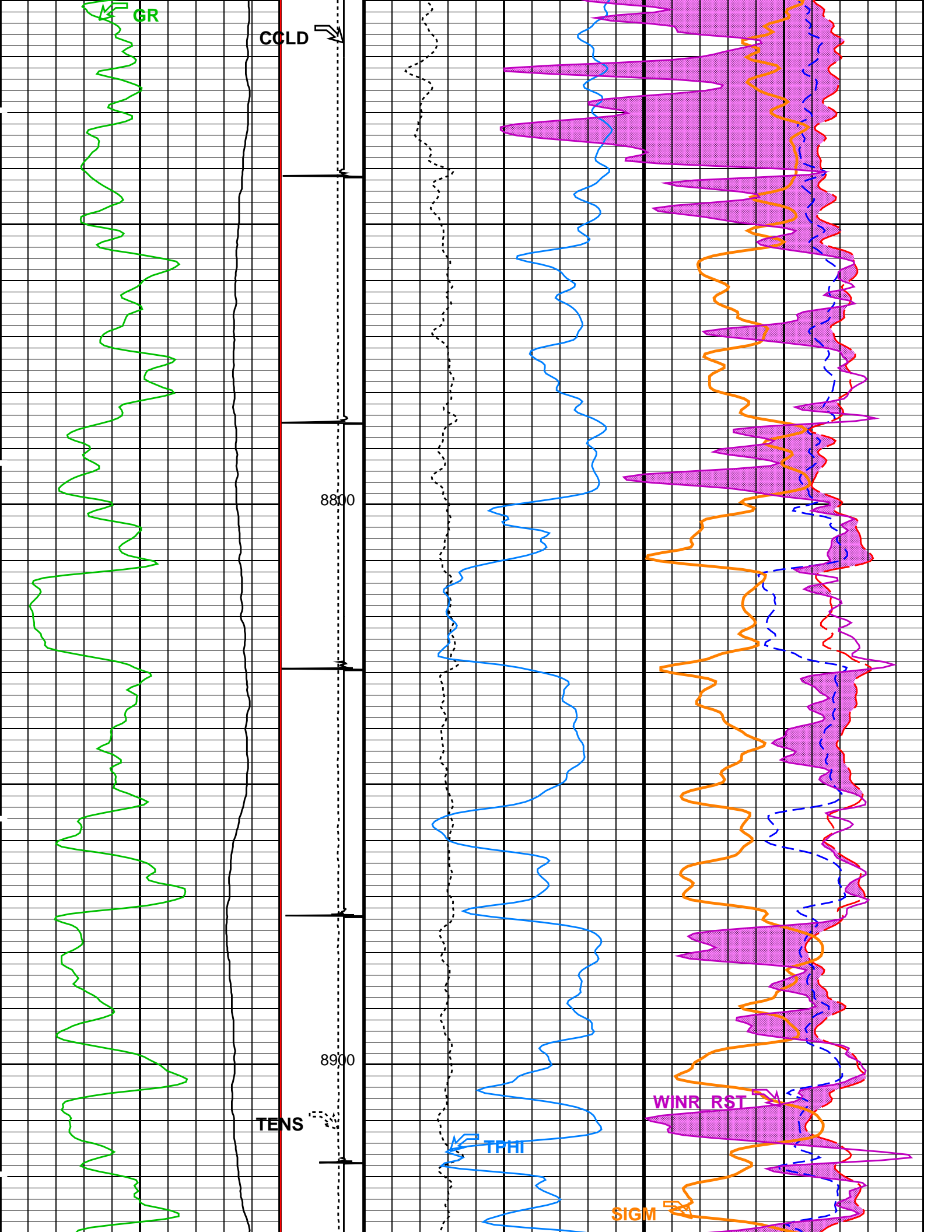


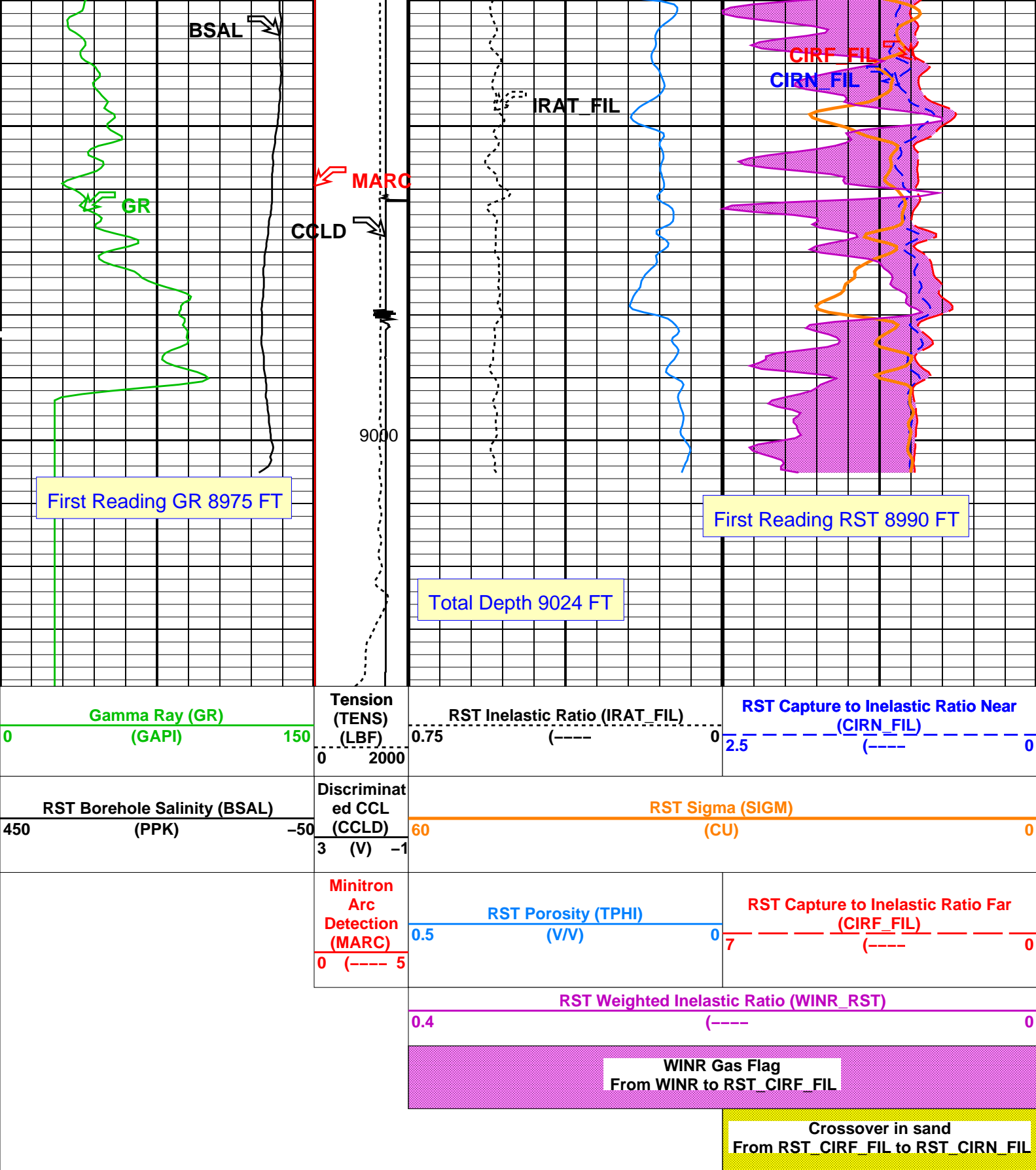












Time Mark Every 60 S

Parameters

DLIS Name

Description

Value

SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD

BILI Bond Index Level for Zone Isolation
BISS Bond Index Source Selection for BIQL
CB3D SCMT CBL 3 ft Peak Detection Mode

0.8
BI
PEAK

CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	224.559	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	338.559	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	45	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTc	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CMTp	SCMT Tool position on CAN	5	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.924277	
GOBO	Good Bond	1.55185	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	167.559	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.32284	MV
MSA	Minimum Sonic Amplitude	0.579149	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
RBC	Relative Bearing Correction Allow/Disallow	ALLOW	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY

RST-C: 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.	3.998	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		

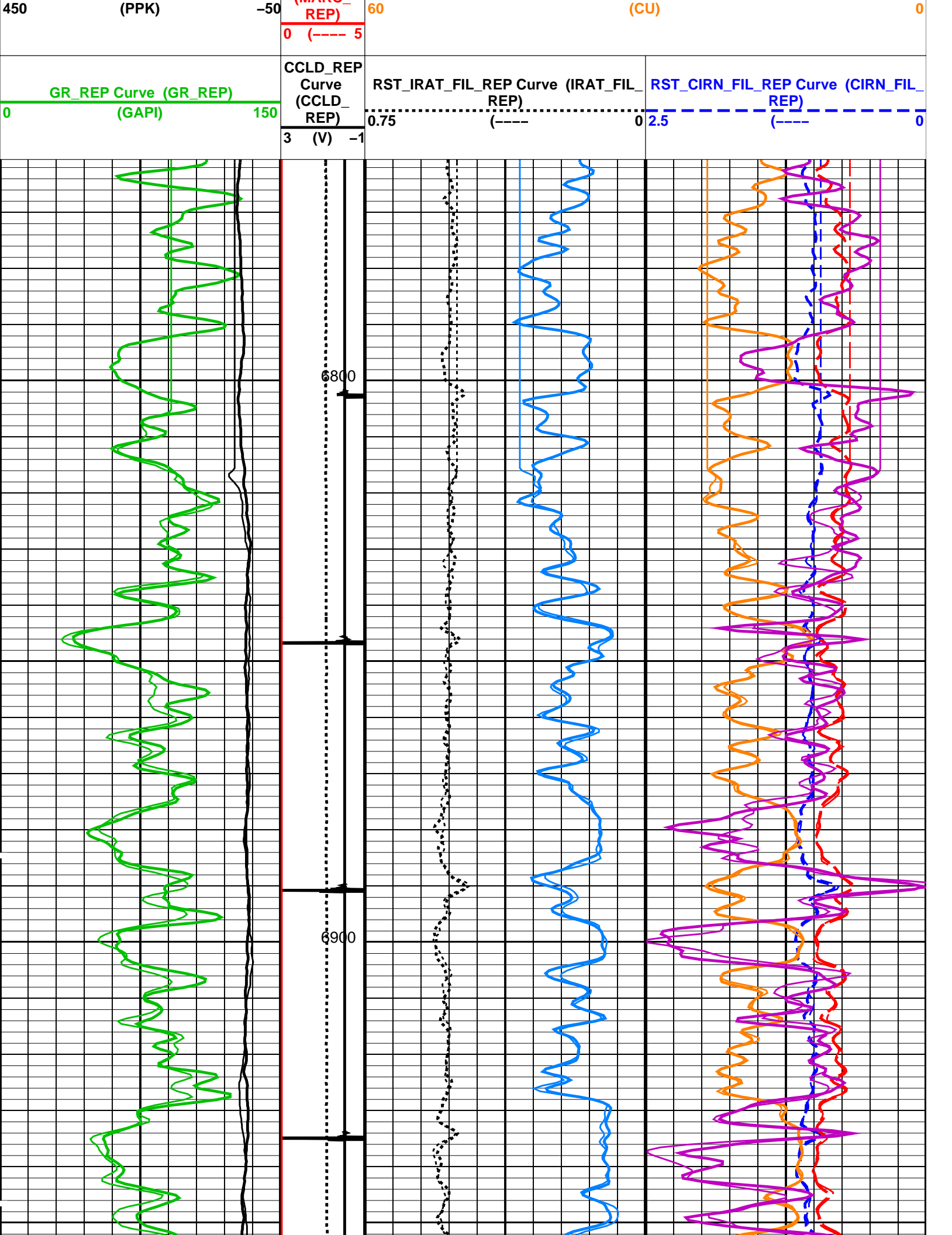
PSPT: Production Services Logging Platform

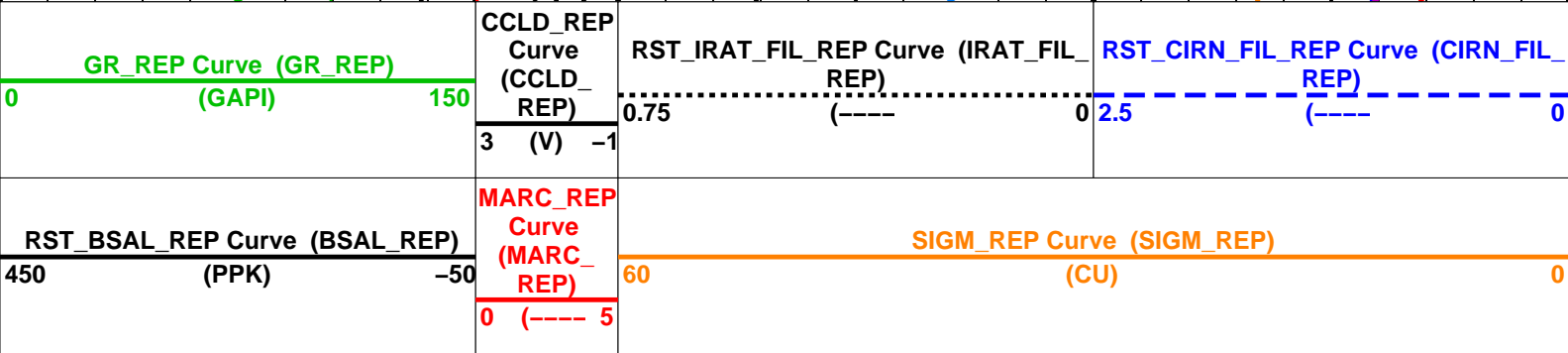
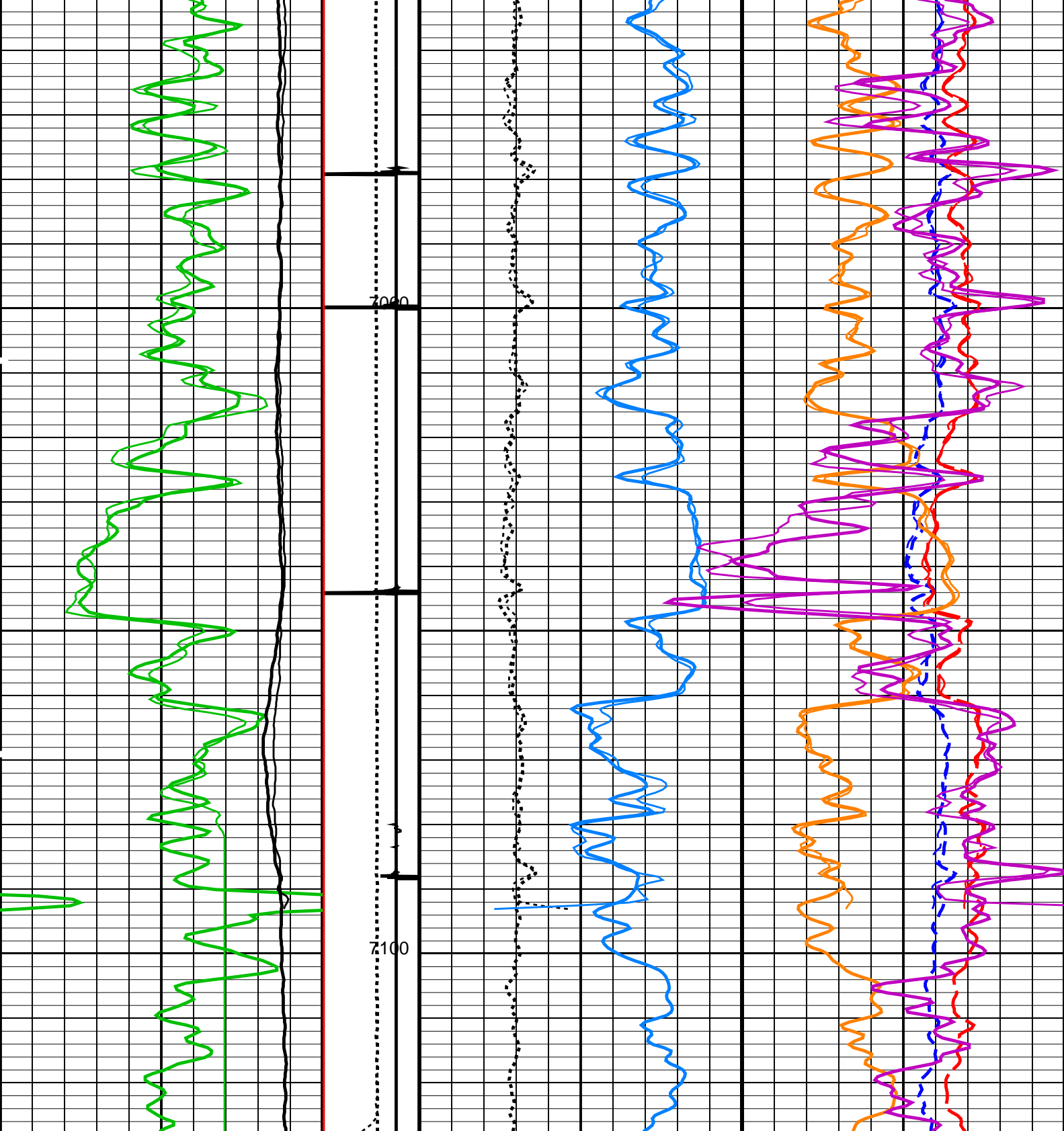
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
CSID	Casing Size I.D.	3.998	IN
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
PBPO	PBMS Tool position on CAN	2	
PCCG	PBMS CCL Gain	DB12	
PSTP	PSTC Tool Position on CAN Bus	1	
SHT	Surface Hole Temperature	68	DEGF

System and Miscellaneous

ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	7.875	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	4.0	FT
FLEV	Fluid Level	60.00	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







		(TENS REP) (LBF)	0.5	TPHI_CURVE (TPHI_CURVE) (V/V)	0	7	REP	0
		0	2000	WINR_CURVE (WINR_RST_CURVE)				
			0.4	(-----)				

PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
BISS	Bond Index Source Selection for BIQL	BI	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	224.559	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	338.559	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	45	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CMTF	SCMT Tool position on CAN	5	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.924277	
GOBO	Good Bond	1.55185	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	167.559	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.32284	MV
MSA	Minimum Sonic Amplitude	0.579149	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
RBC	Relative Bearing Correction Allow/Disallow	ALLOW	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
RST-C: Reservoir Saturation Pro Tool C			
AIRB	Tractor Available in Tool String	NO	
BHS	RST Air Borehole	No	
BHT	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.	3.998	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		
PSPT: Production Services Logging Platform			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
CSID	Casing Size I.D.	3.998	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	PBMS Tool position on CAN	2	
PCCG	PBMS CCL Gain	DB12	
PSTP	PSTC Tool 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	1.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	60.00	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	9024	FT
TDD	Total Depth - Driller	9118.00	FT
TDL	Total Depth - Logger	9024.00	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: RST_SIGMA_S5_REP Vertical Scale: 5" per 100' Graphics File Created: 10-Feb-2013 23:35

OP System Version: 19C0-187

SCMT-CB SRPC-5214-H2-2012-OP1: RST-C SRPC-5214-H2-2012-OP1:
PSPT SRPC-5214-H2-2012-OP1:

Input DLIS Files

DEFAULT	SCMT_RST_PSP_070LUP	FN:68	PRODUCER	10-Feb-2013 20:38	7126.5 FT	6803.5 FT
DEFAULT	SCMT_RST_PSP_077PUP	FN:75	PRODUCER	10-Feb-2013 23:28	9039.0 FT	-27.0 FT

Output DLIS Files

DEFAULT	SCMT_RST_PSP_078PUP	FN:76	PRODUCER	10-Feb-2013 23:35
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Schlumberger

PBMS COEFFICIENTS

MAXIS Field Log

Client:	ENCANA OIL & GAS (USA) INC	Tool:	PSP
Field:	MAMM CREEK	Sub Type:	PBMS
Well:	SHIDELER FEE 31-13C (031E)	Sensor:	Clock Model
Run date:	10-Feb-2013		

PBMS Digitalization Clock

Sonde Serial NB

Sensor Serial NB

1772

Calib Date ddmmyy

250102

Matrix Size

10

Matrix Size 16
Coeff CRC 279D

Clock Coeff

	Temp**0	Temp**1	Temp**2
Temp**0	-.161517143435E+03	-.455833634022E+01	-.104938566503E+00
	Temp**3	Temp**4	Temp**5
Temp**0	+.665806803953E-03	+.215816423936E-05	0.0

Client: ENCANA OIL & GAS (USA) INC Tool: PSP
Field: MAMM CREEK Sub Type: PBMS
Well: SHIDELER FEE 31-13C (031E) Sensor: Sapphire
Run date: 10-Feb-2013

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB COEFFICIENTS FOR SAPPHIRE PBMS-A.1772 S/N:
Sensor Serial NB 1772
Calib Date ddmmyy 250102
Matrix Size 66
Coeff CRC 7015

Pres Coeff

	Tt**0	Tt**1	Tt**2
Tp**0	-.301728254764E+05	+.213698779657E+05	-.667784145806E+04
Tp**1	+.222783691269E+05	-.154949942910E+05	+.506915258152E+04
Tp**2	-.219998557234E+03	+.903672682639E+02	-.973284421881E+01
Tp**3	+.373083861809E+01	-.914930924512E+00	0.0
Tp**4	0.0	0.0	0.0
Tp**5	0.0	0.0	0.0
	Tt**3	Tt**4	Tt**5
Tp**0	+.999867705458E+03	-.587093588268E+02	0.0
Tp**1	-.790152285056E+03	+.481404114544E+02	0.0
Tp**2	0.0	0.0	0.0
Tp**3	0.0	0.0	0.0
Tp**4	0.0	0.0	0.0

Tp**5	0.0	0.0	0.0
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PBMS Sapphire 10kPsi Gauge

Sonde Serial NB :
Sensor Serial NB 1772
Calib Date ddmmyy 250102
Matrix Size 66
Coeff CRC 8D09

Temp Coeff

	Tp**0	Tp**1	Tp**2
Tt**0	+232726172867E+04	+748146006300E+01	−308596169368E+01
Tt**1	−145543937674E+04	−382344629538E+01	+886665691754E+00
Tt**2	+319573055861E+03	+722043926946E+00	−543588515298E−01
Tt**3	−247026874426E+02	−512988254724E−01	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0
	Tp**3	Tp**4	Tp**5
Tt**0	+711608702827E+00	−763411838100E−01	0.0
Tt**1	−147911019947E+00	+159378916834E−01	0.0
Tt**2	0.0	0.0	0.0
Tt**3	0.0	0.0	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0

Client:	ENCANA OIL & GAS (USA) INC	Tool:	PSP
Field:	MAMM CREEK	Sub Type:	PBMS
Well:	SHIDELER FEE 31−13C (031E)	Sensor:	GR
Run date:	10−Feb−2013		

PBMS Gamma Ray

Sonde Serial NB RESISTORS FOR GR SENSOR N.33401,TOOL PBMS−AA1772. SENSOR S/N:
Sensor Serial NB 33401
Calib Date ddmmyy 021101
Matrix Size 12
Coeff CRC 1F7D

GR HV Rt

Rt**0

Rt**1

Rt**0

+.150000000000e+04

+.236000000000e+04

Client: ENCANA OIL & GAS (USA) INC

Field: MAMM CREEK

Well: SHIDELER FEE 31-13C (031E)

Run date: 10-Feb-2013

Tool:

PSP

Sub Type:

PBMS

Sensor:

WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB 1772

Calib Date ddmmyy 250102

Matrix Size 16

Coeff CRC 0B6D

WTemp Coeff

Tt**0

Tt**1

Tt**2

Tt**0

-.578338733285E+03

+.354557410577E+03

-.963404561888E+02

Tt**3

Tt**4

Tt**5

Tt**0

+.167992041034E+02

-.106406976994E+01

0.0

Company: ENCANA OIL & GAS (USA) INC

Well: SHIDELER FEE 31-13C (031E)

Field: MAMM CREEK

Operator: GARFIELD

Schlumberger

County:
State:

GARFIELD
COLORADO

RESERVOIR SATURATION LOG
SIGMA MODE
GR-CCL