



Company: ENCANA OIL & GAS (USA) INC

Well: SGU 8510C-23 (L24 496)

Field: STORY GULCH

County: GARFIELD

State: COLORADO

SLIM CEMENT MAPPING LOG
GAMMA RAY - CCL - TEMPERATUR
CBL - VDL

County: GARFIELD
Field: STORY GULCH
Location: SHL: 1589' FSL & 878' FWL
Well: SGU 8510C-23 (L24 496)
Company: ENCANA OIL & GAS (USA) INC

LOCATION

SHL: 1589' FSL & 878' FWL
BHL: 2055' FSL & 1814' FEL
Elev.: K.B. 8210.00 ft
G.L. 8180.00 ft
D.F. 8109.00 ft
Permanent Datum: GROUND LEVEL
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING
Elev.: 30.00 ft above Perm. Datum
API Serial No. 05-045-21169-0000
Section 24
Township 4S
Range 96W

PVT DATA		
Oil Density	Run 1	Run 2
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	18-Mar-2013
Run Number	1
Depth Driller	12643 ft
Schlumberger Depth	12568 ft
Bottom Log Interval	12560 ft
Top Log Interval	75 ft
Casing Fluid Type	FRESH WATER
Salinity	
Density	8.4 lbm/gal
Fluid Level	75 ft
BIT/CASING/TUBING STRING	
Bit Size	7.875 in
From	8549 ft
To	12643 ft
Casing/Tubing Size	4.500 in
Weight	11.6 lbm/ft
Grade	
From	30 ft
To	12637 ft
Maximum Recorded Temperatures	287 degF
Logger On Bottom	18-Mar-2013
Unit Number	391
Location	GRAND JUNCTION
Recorded By	JASON BARRY
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	
Location	
Recorded By	
Witnessed By	

DEPTH SUMMARY LISTING

Date Created: 14-MAR-2013 10:41:08

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: 6214 Calibration Date: 24-APR-2012 Calibrator Serial Number: Calibration Cable Type: 1-25ZT Wheel Correction 1: -3 Wheel Correction 2: -4	Type: CMTD-B/A Serial Number: 3421 Calibration Date: 20-FEB-2011 Calibrator Serial Number: 174878 Number of Calibration Points: 10 Calibration RMS: 4 Calibration Peak Error: 8	Type: 1-25ZT Serial Number: 112136 Length: 19500 FT Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters

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

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES APPLIED
2. IDW USED AS PRIMARY DEPTH REFERENCE
3. SWPT DRUM COUNTER USED AS SECONDARY DEPTH REFERENCE
4.
5.
6.

DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1: NONE	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FIRST RUN IN HOLE	
TOOL RAN AS PER TOOL SKETCH	
MAX RECORDED TEMPERATURE: 287 DEGF	
MAX RECORDED PRESSURE: 5123 PSI	
SHORT JOINTS: 11093 FT & 8296 FT	

ENTRANCE TIME: 19:00
 TIME ON BOTTOM: 19:15
 EXIT TIME: 23:15

MAIN PASS LOGGED UNDER ZERO SURFACE PRESSURE
 EXPECTED CBL AMP IN FREE PIPE = 0 MV

CREW: J BARRY, B CUPP, J MANN, W AZIZ, K JOHNS
 THANK YOU FOR CHOOSING E&P WIRELINE, A SCHLUMBERGER COMPANY

RUN 1			RUN 2		
SERVICE ORDER #:	C920-00052		SERVICE ORDER #:		
PROGRAM VERSION:	19C0-187		PROGRAM VERSION:		
FLUID LEVEL:	75 ft		FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

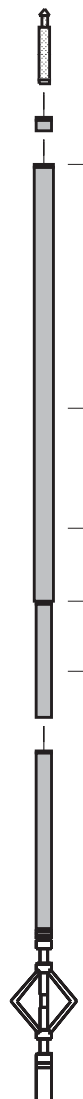
RUN 1 RUN 2

SURFACE EQUIPMENT

WITM-A
 PSC_16MHZ

DOWNHOLE EQUIPMENT

MH-22			33.2
MH-22			
AH-38	Detail MT		
	TelStatus		
	CTEM	31.3	31.6
HBMS-B			31.3
PSC-A 2884			
HUDH-A 2884			
HSTC-A			
HBMC-A			
GR			
CCL			
HBMC			
HTPS-A 2884			
HCQG_E_Mano	GR	26.4	
RTD_Thermometer			
	CCL	24.0	
	HSTC Aux.		
	HBMC Aux.	22.5	
	CQG Manom		
	Well_Temp	21.1	
SCMT-CB			20.2
SCMC-CA 8120			
SECH-CA			
CMIR-AG			
SCMS-CB 8179			
SCMX-CA			



DT — 11.1
 CBL5 DTSC — 9.6
 CBL3 — 8.6
 MAP — 8.1
 AUX — 7.1



AH-BNS Tension SCMT HV — 0.0
 TOOL ZERO 0.2

MAXIMUM STRING DIAMETER 2.07 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN FEET

Schlumberger

MAIN PASS CBL VDL

MAXIS Field Log

Company: ENCAN OIL & GAS (USA) INC

Well: SGU 8510C-23 (L24 496)

Input DLIS Files

DEFAULT SCMT_HBMS_018LUP FN:17 PRODUCER 18-Mar-2013 19:41 12580.0 FT 38.0 FT

Output DLIS Files

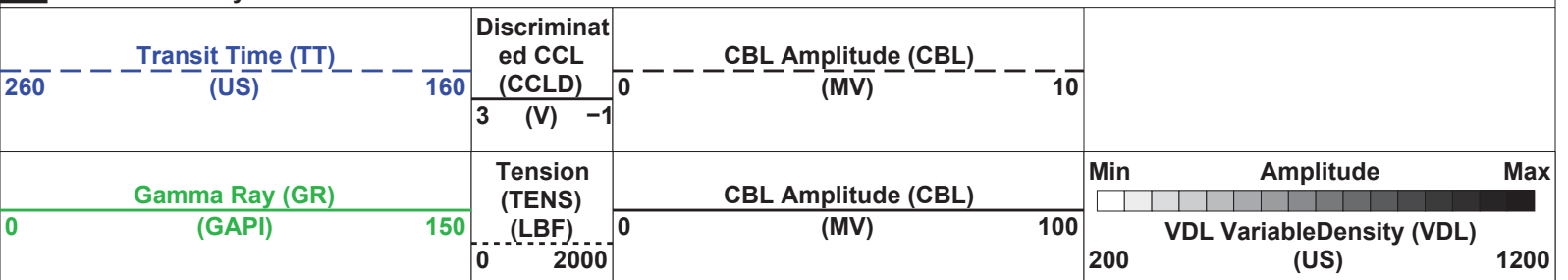
DEFAULT SCMT_HBMS_020PUP FN:19 PRODUCER 18-Mar-2013 23:10 12580.0 FT 6.5 FT

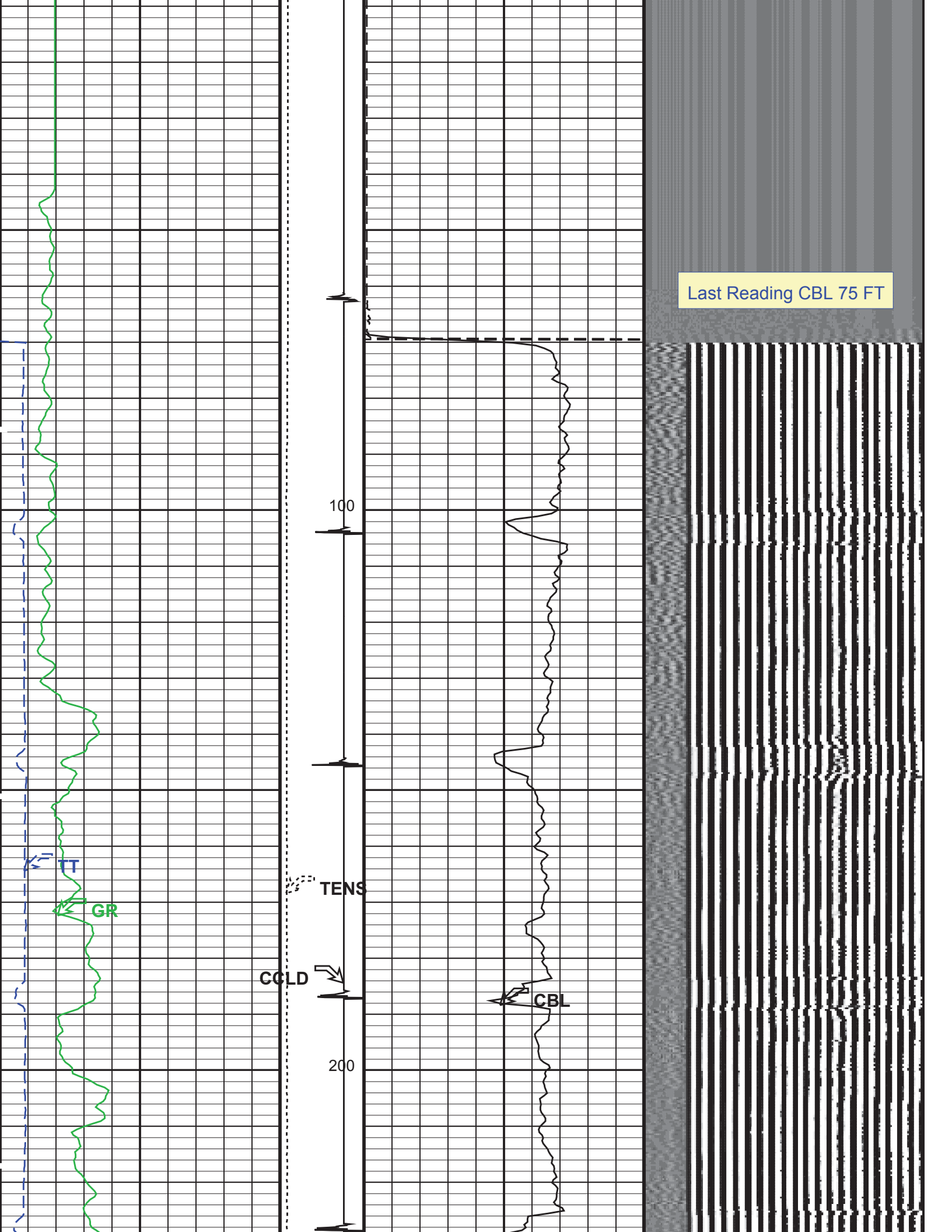
OP System Version: 19C0-187

SCMT-CB SRPC-5214-H2-2012-OP1 HBMS-B SRPC-5214-H2-2012-OP1

PIP SUMMARY

Time Mark Every 60 S





Last Reading CBL 75 FT

100

200

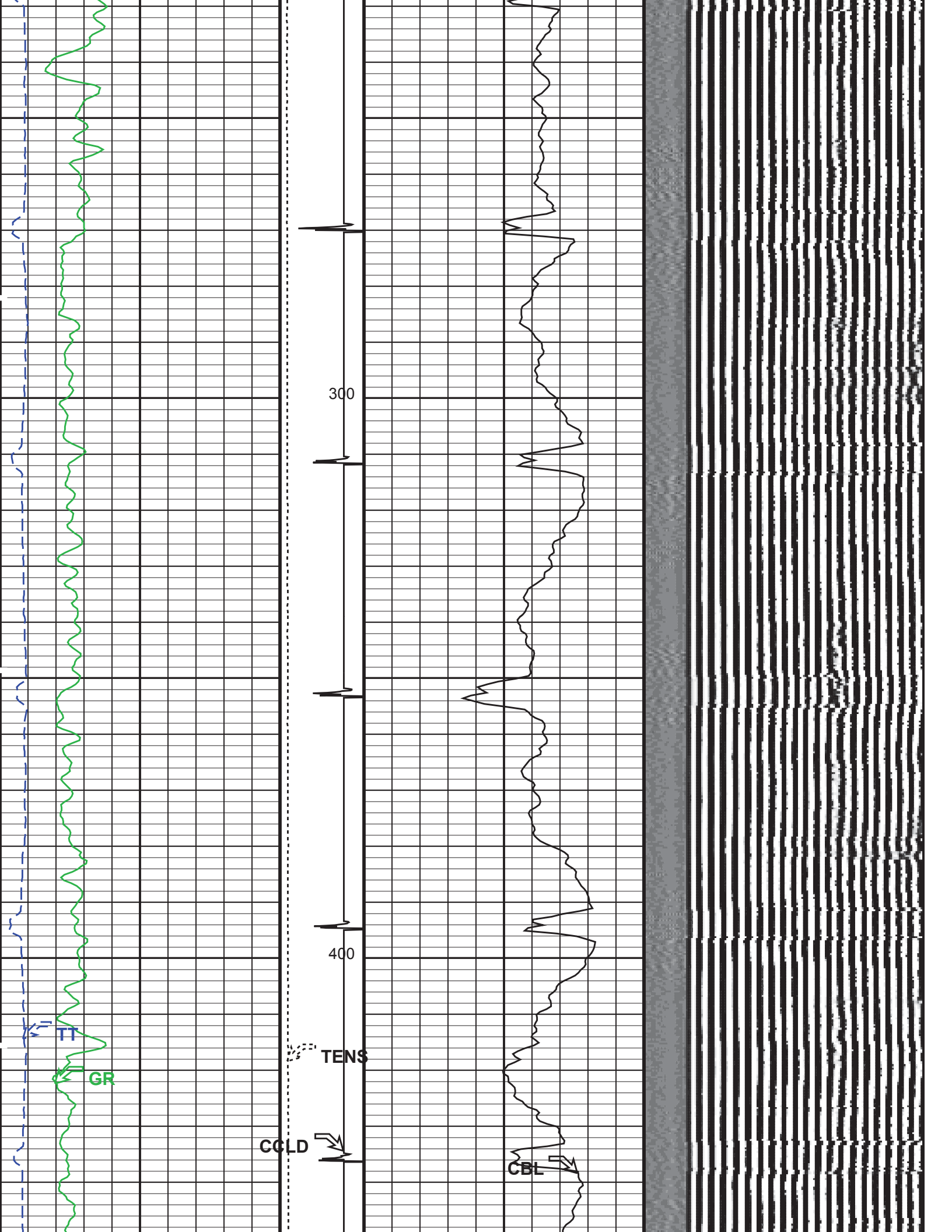
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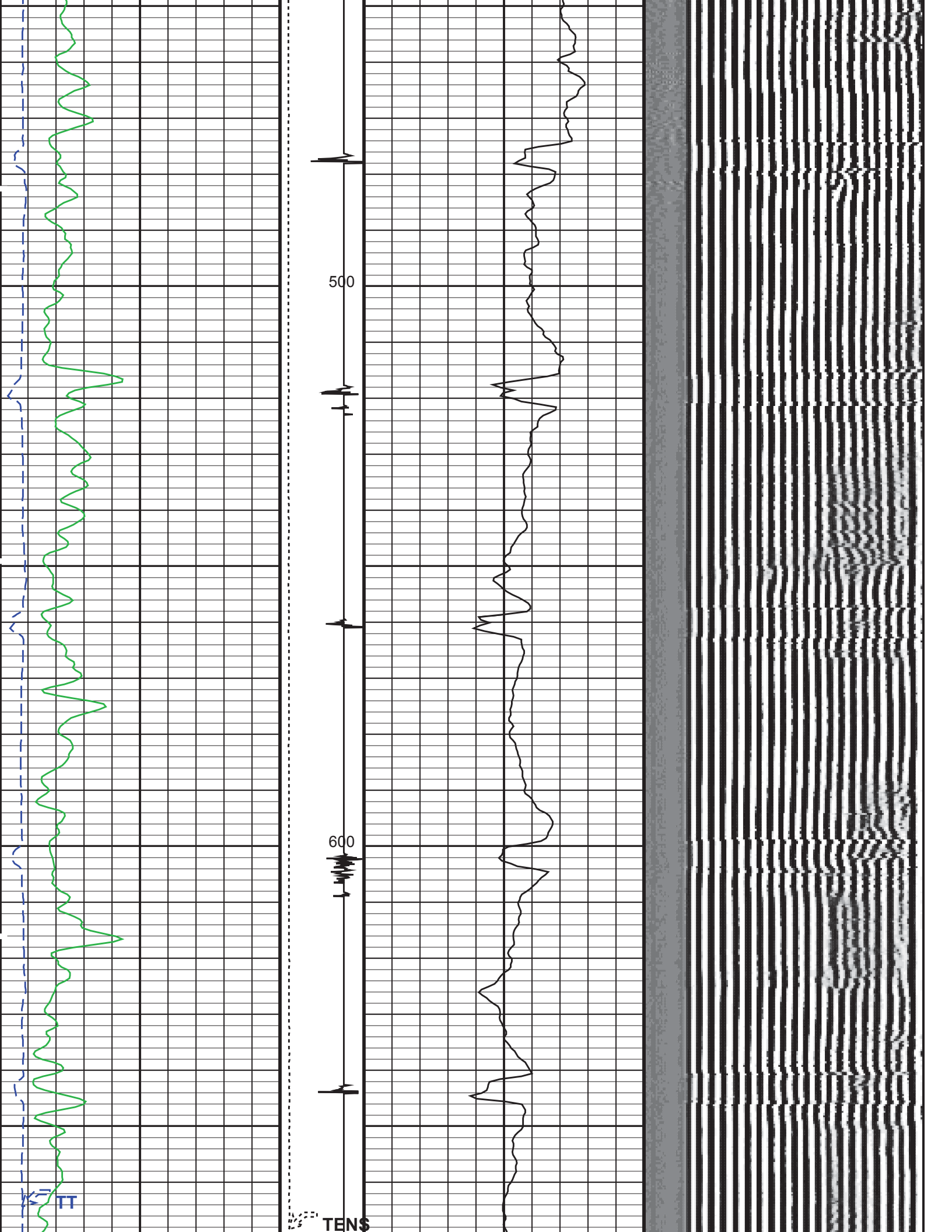
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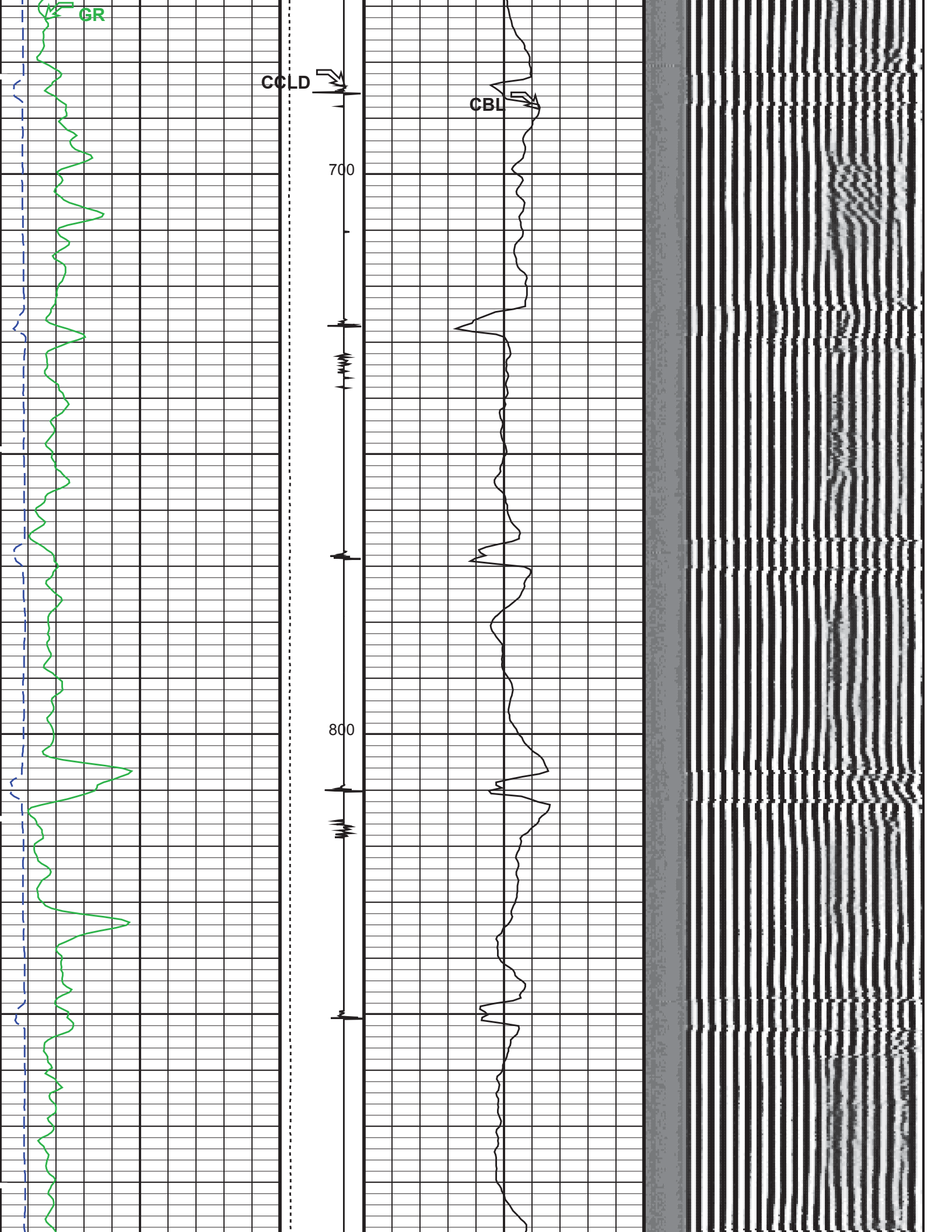
CBL

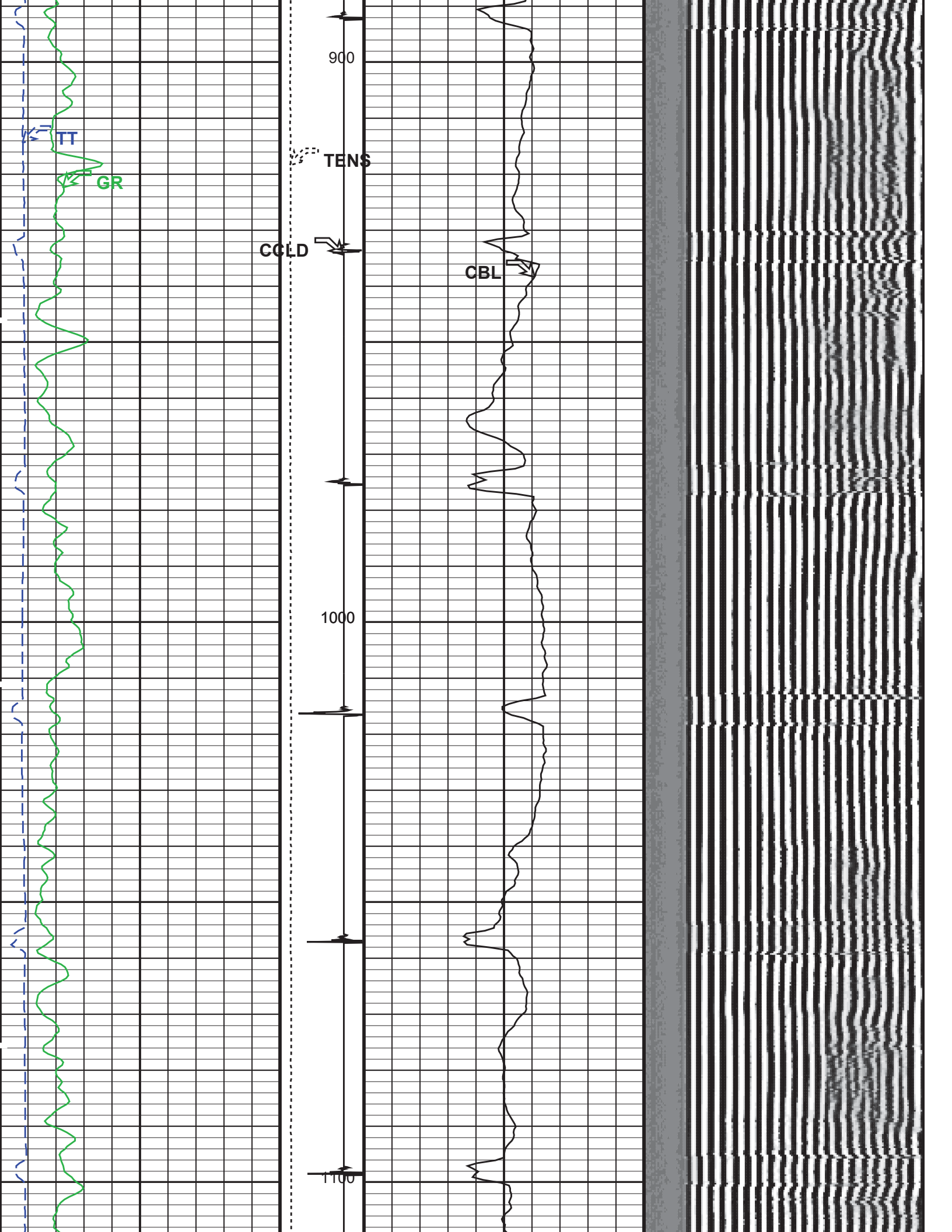
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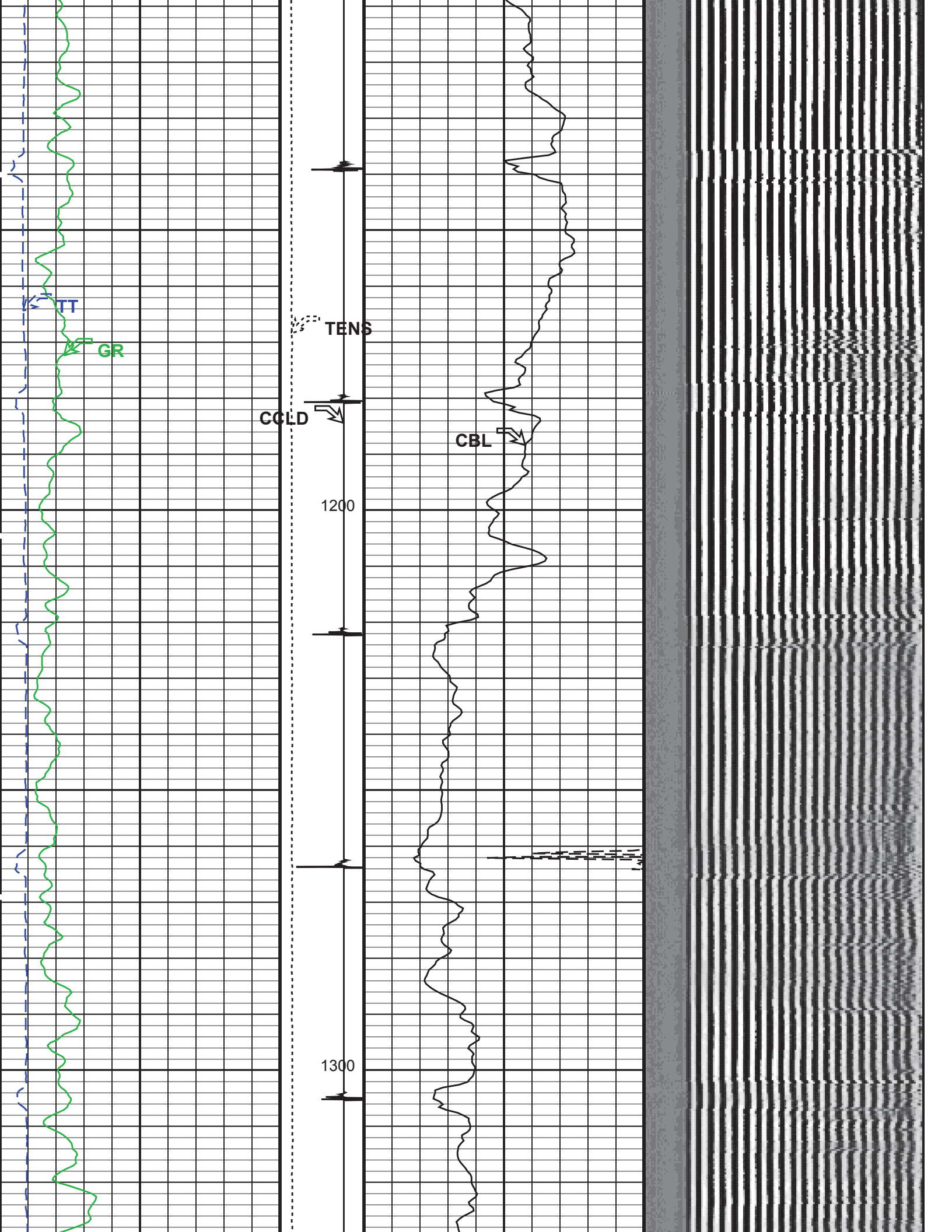
GR

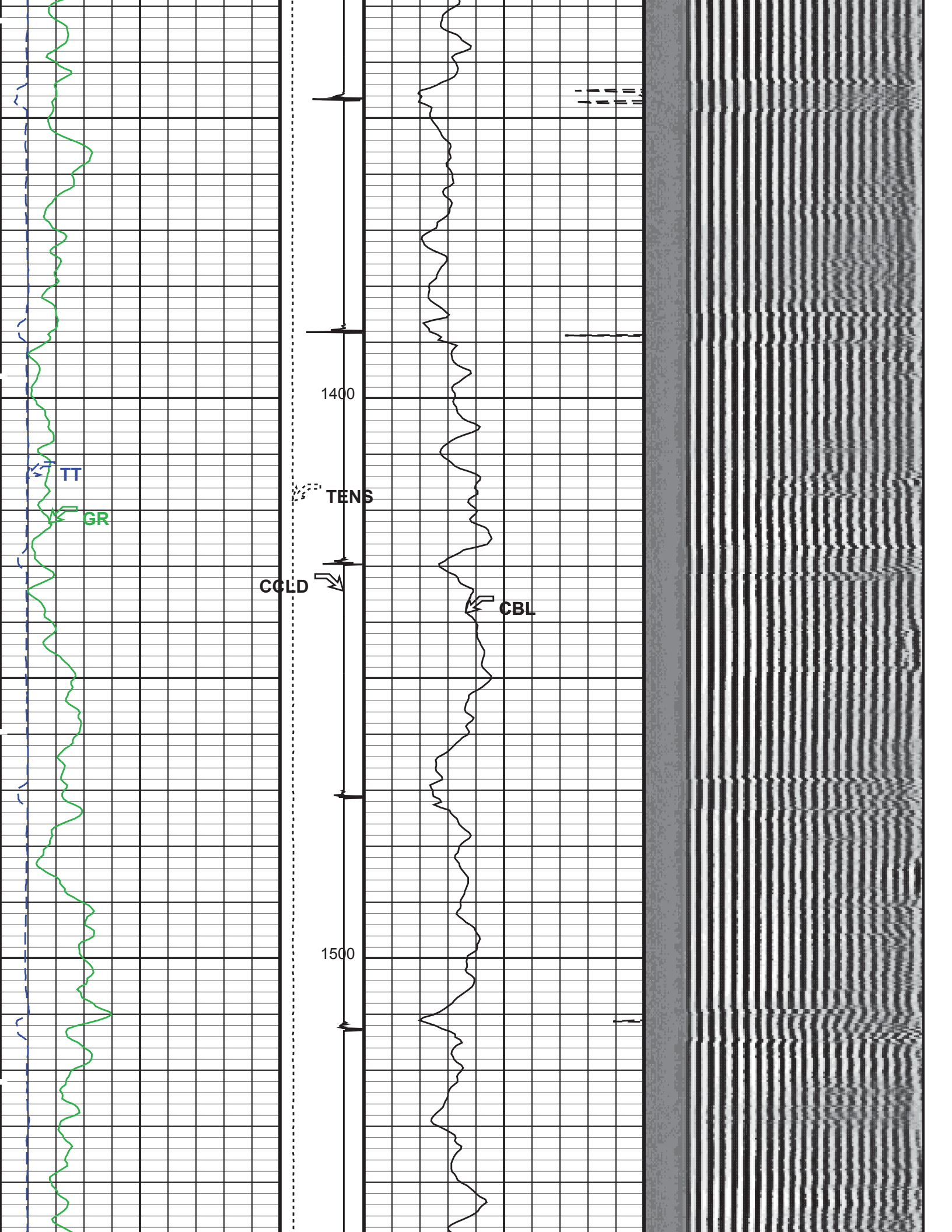


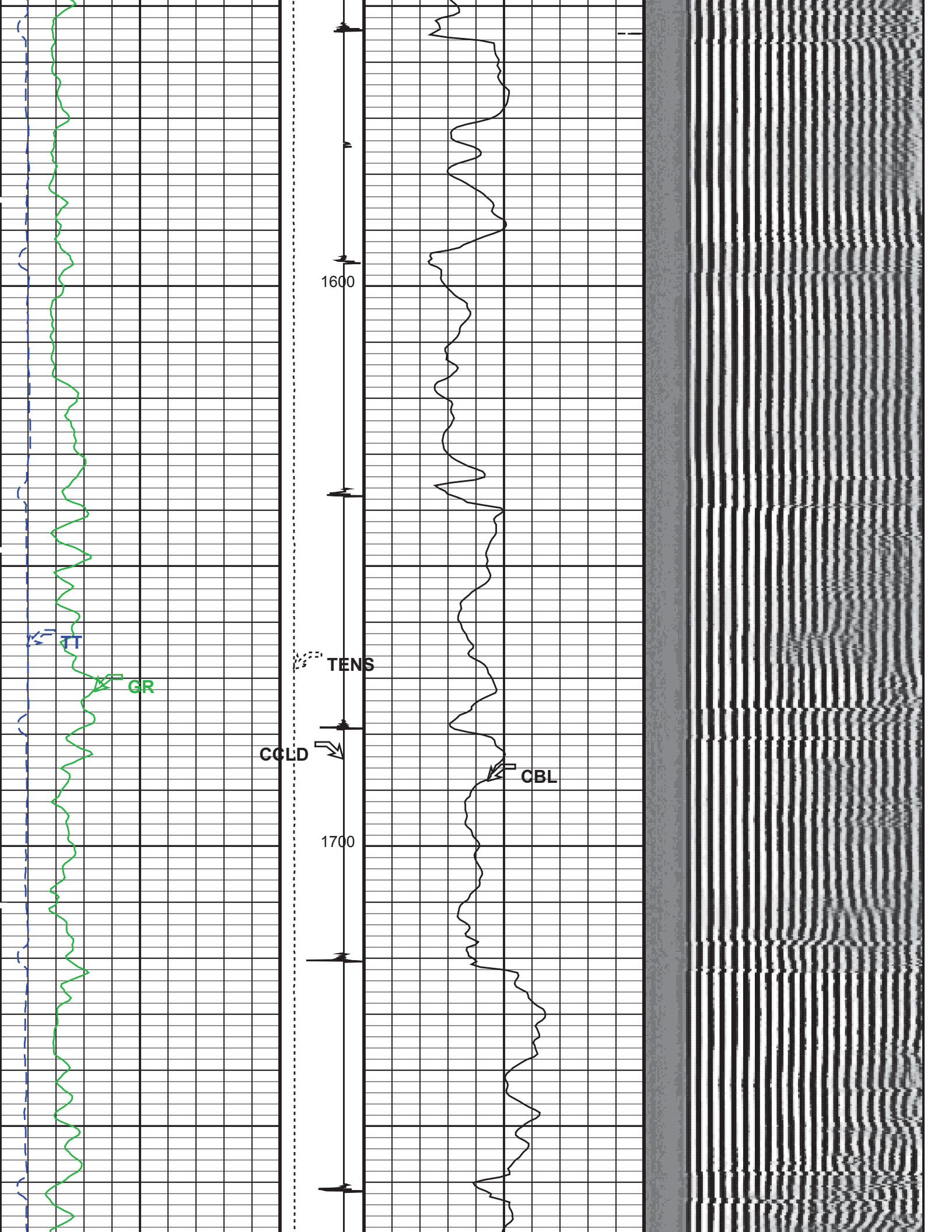


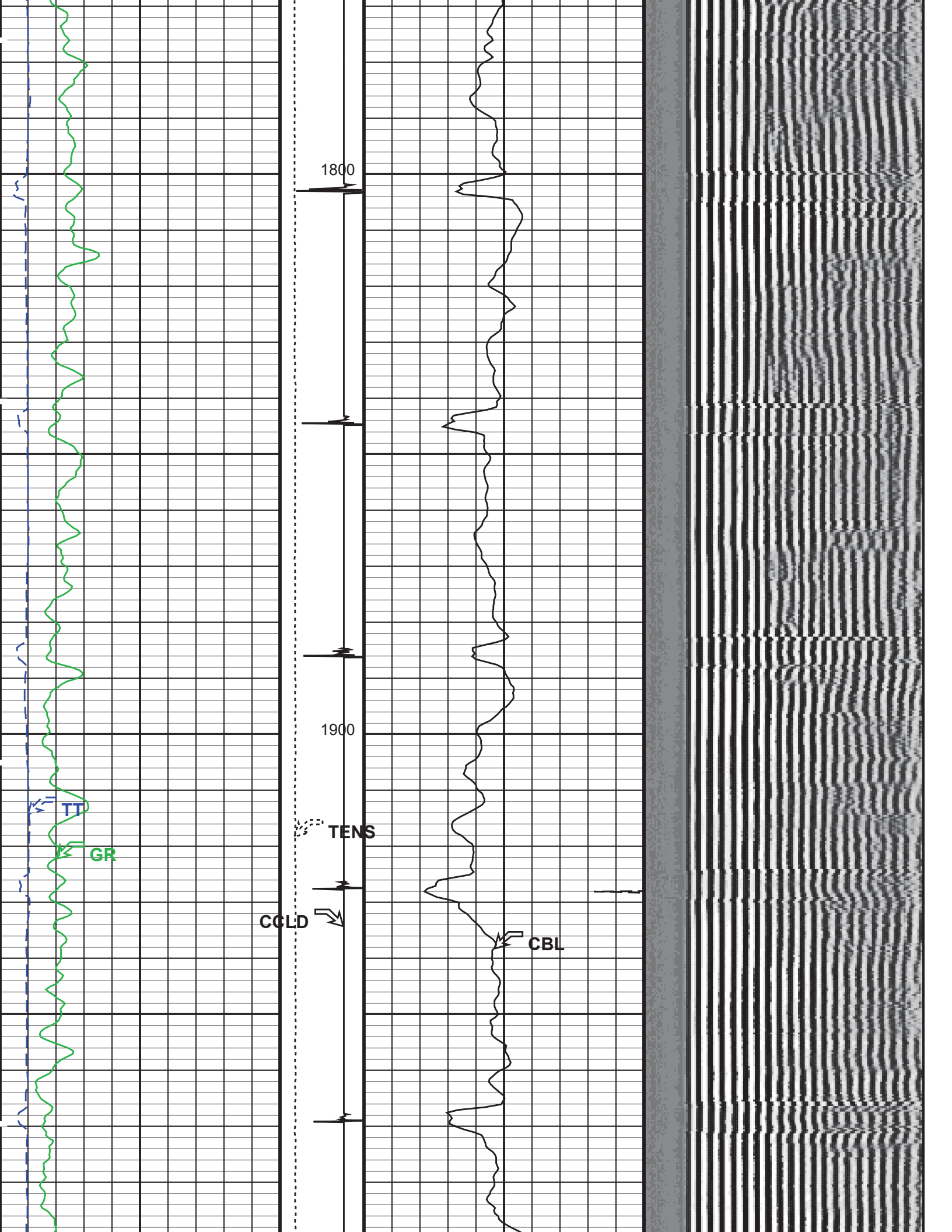


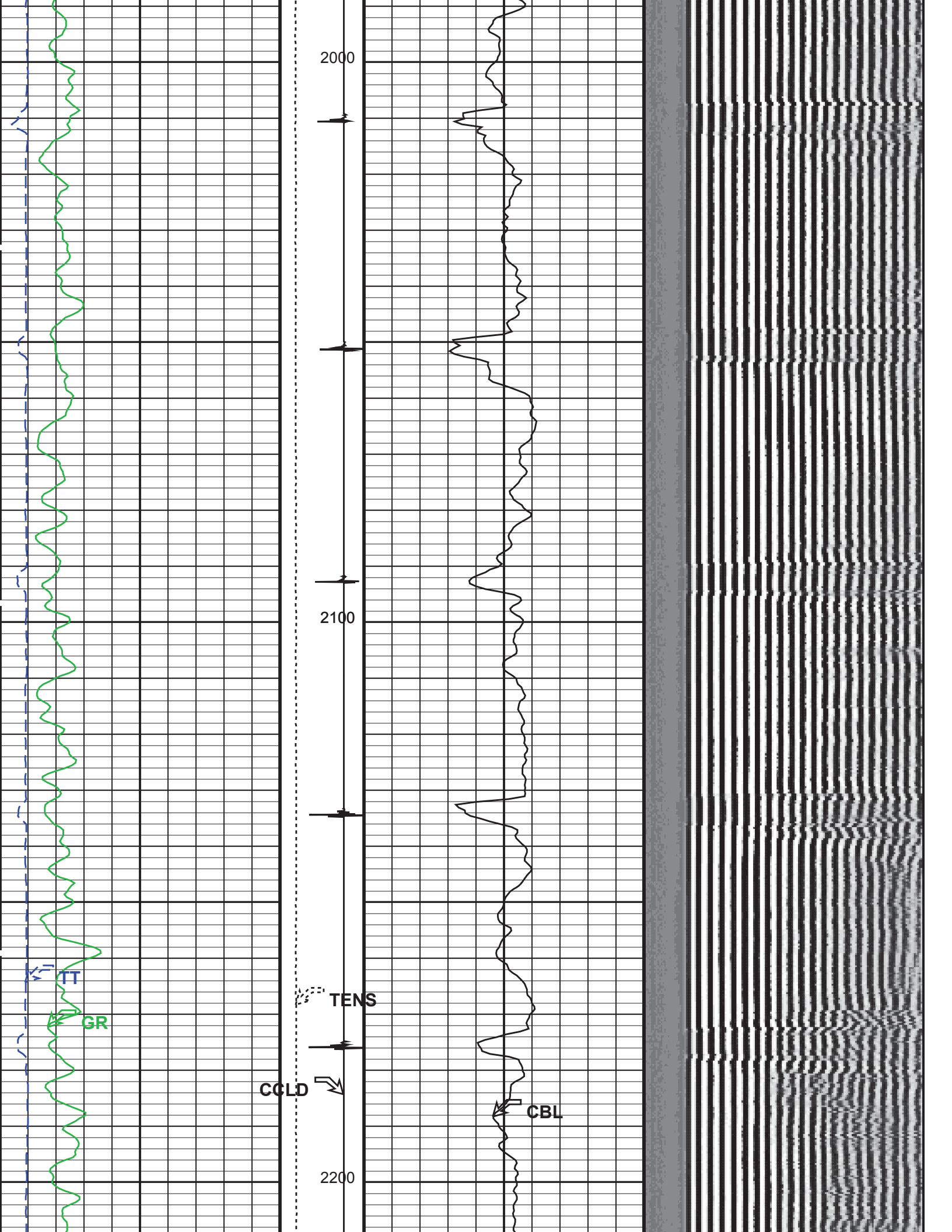


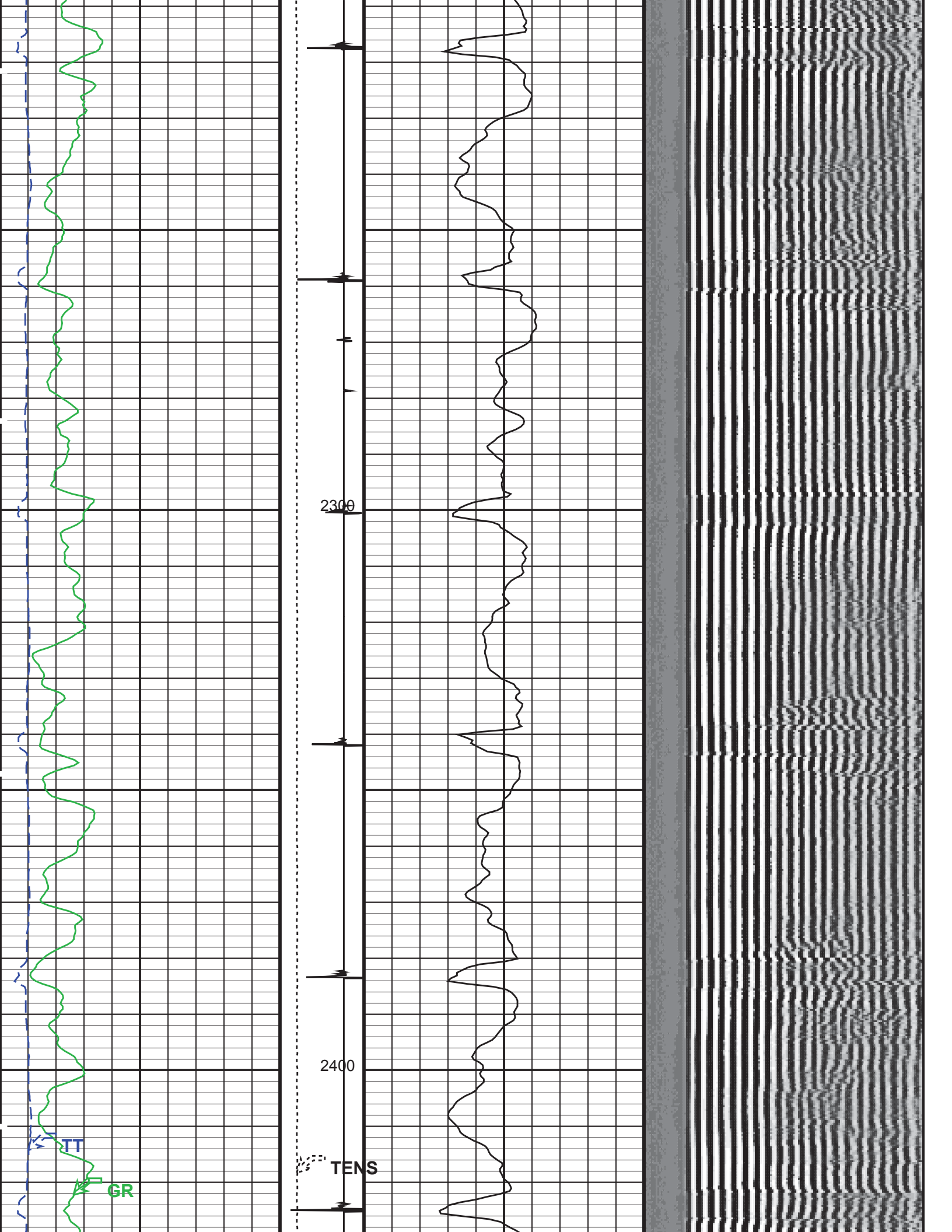


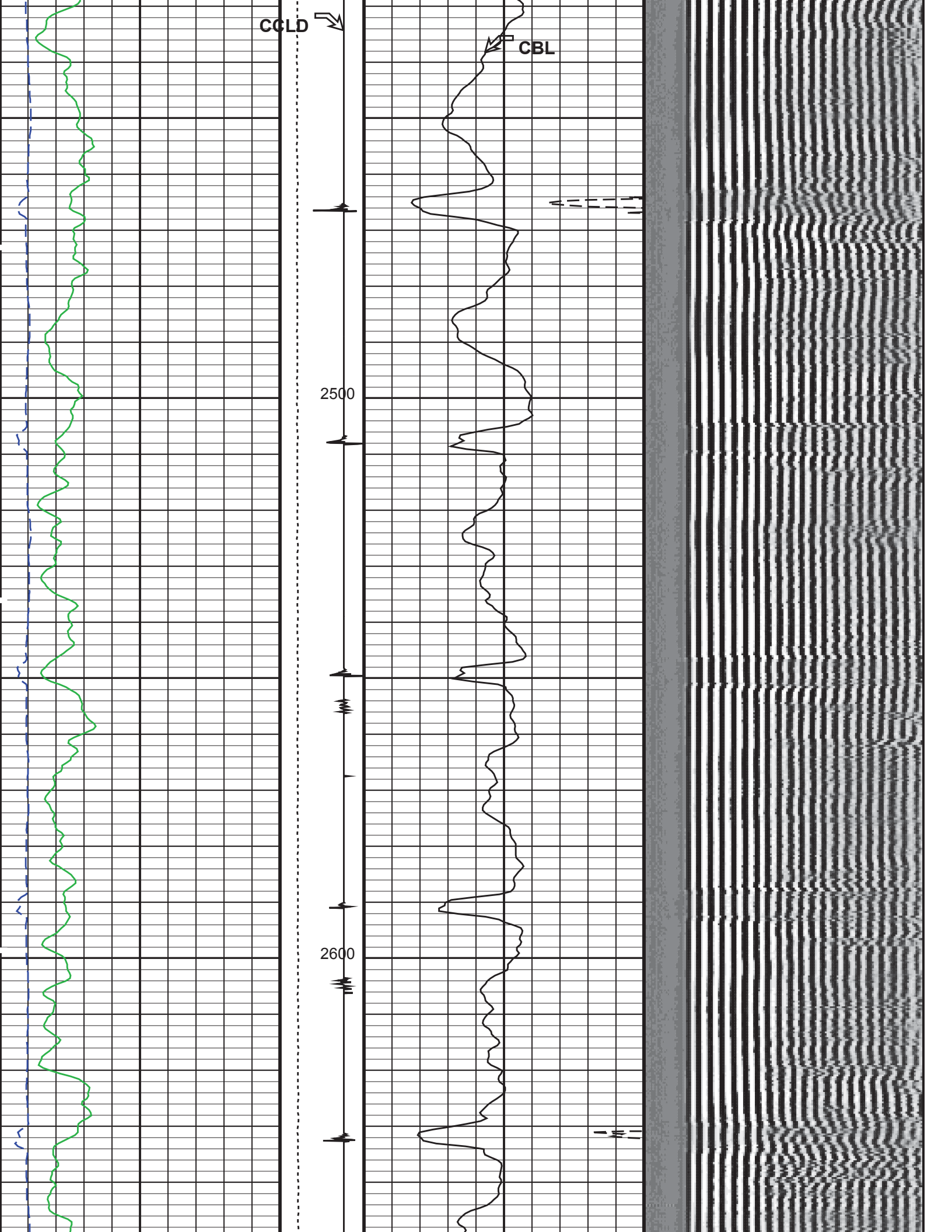


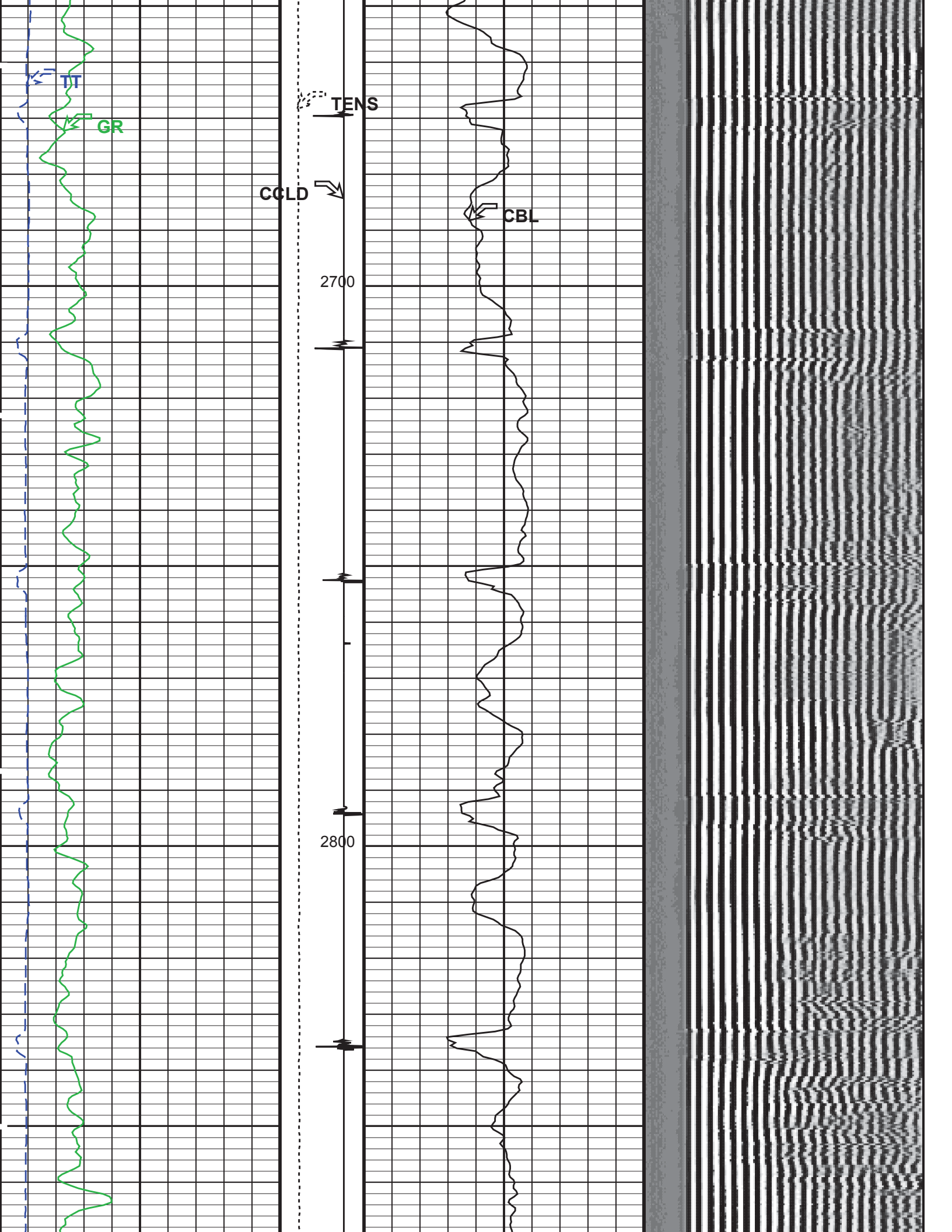


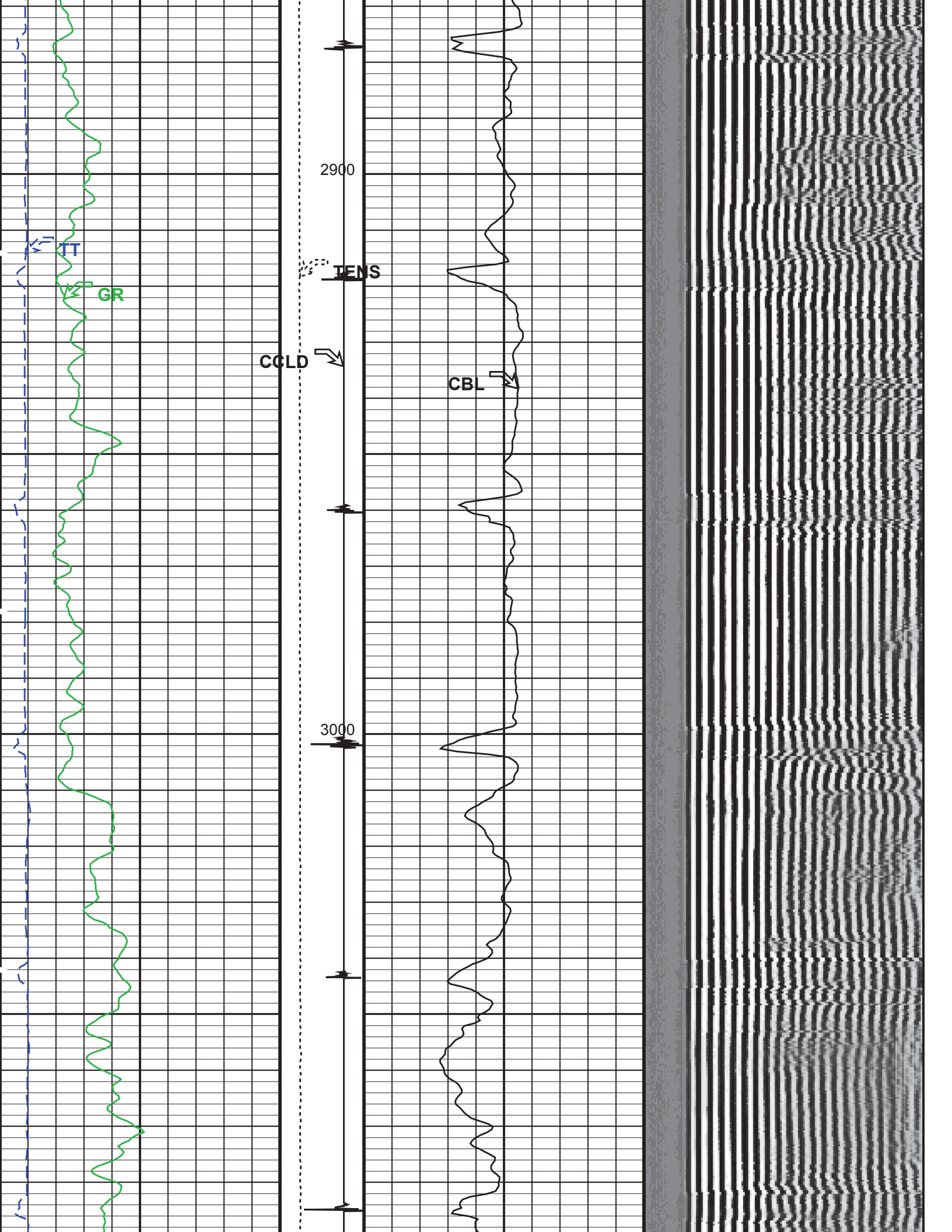


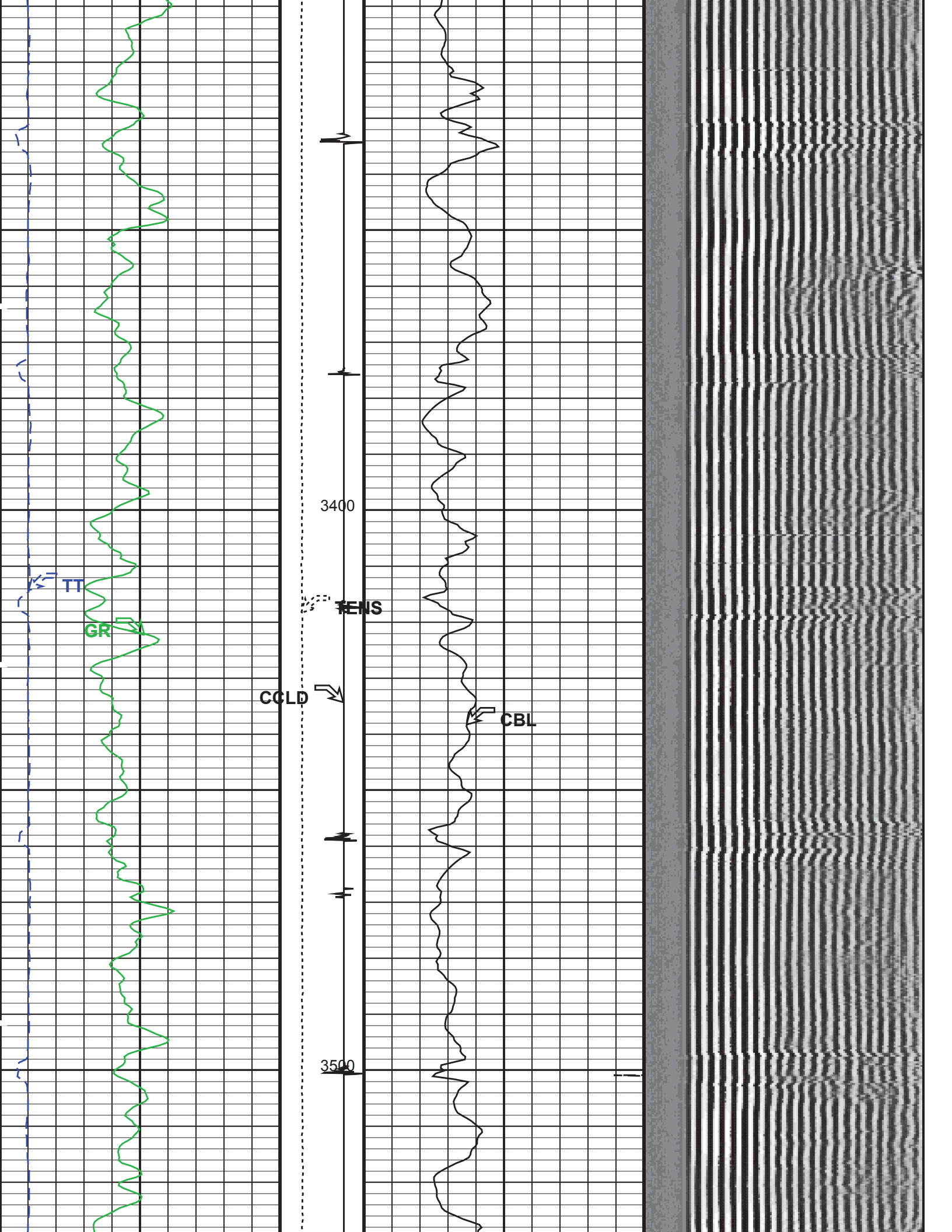


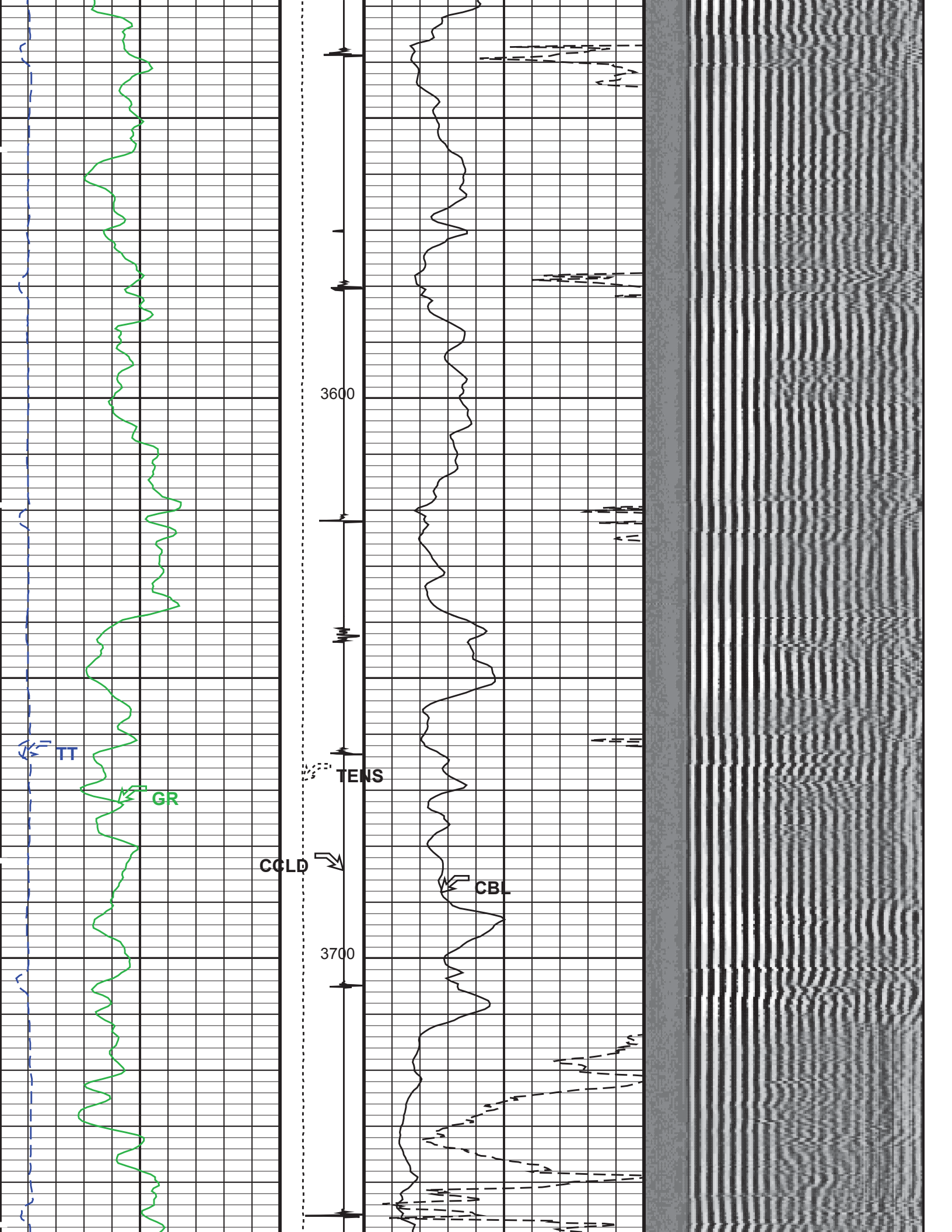


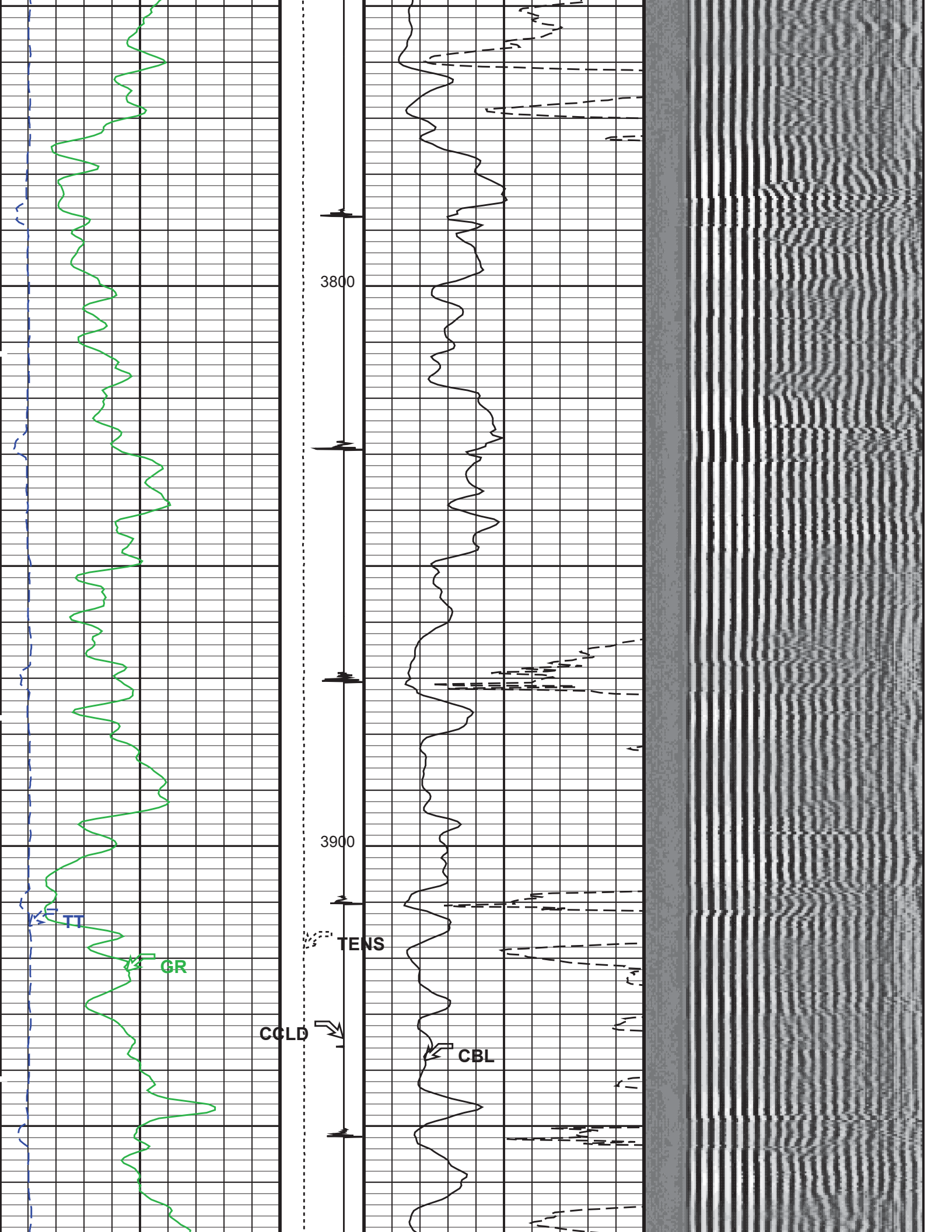


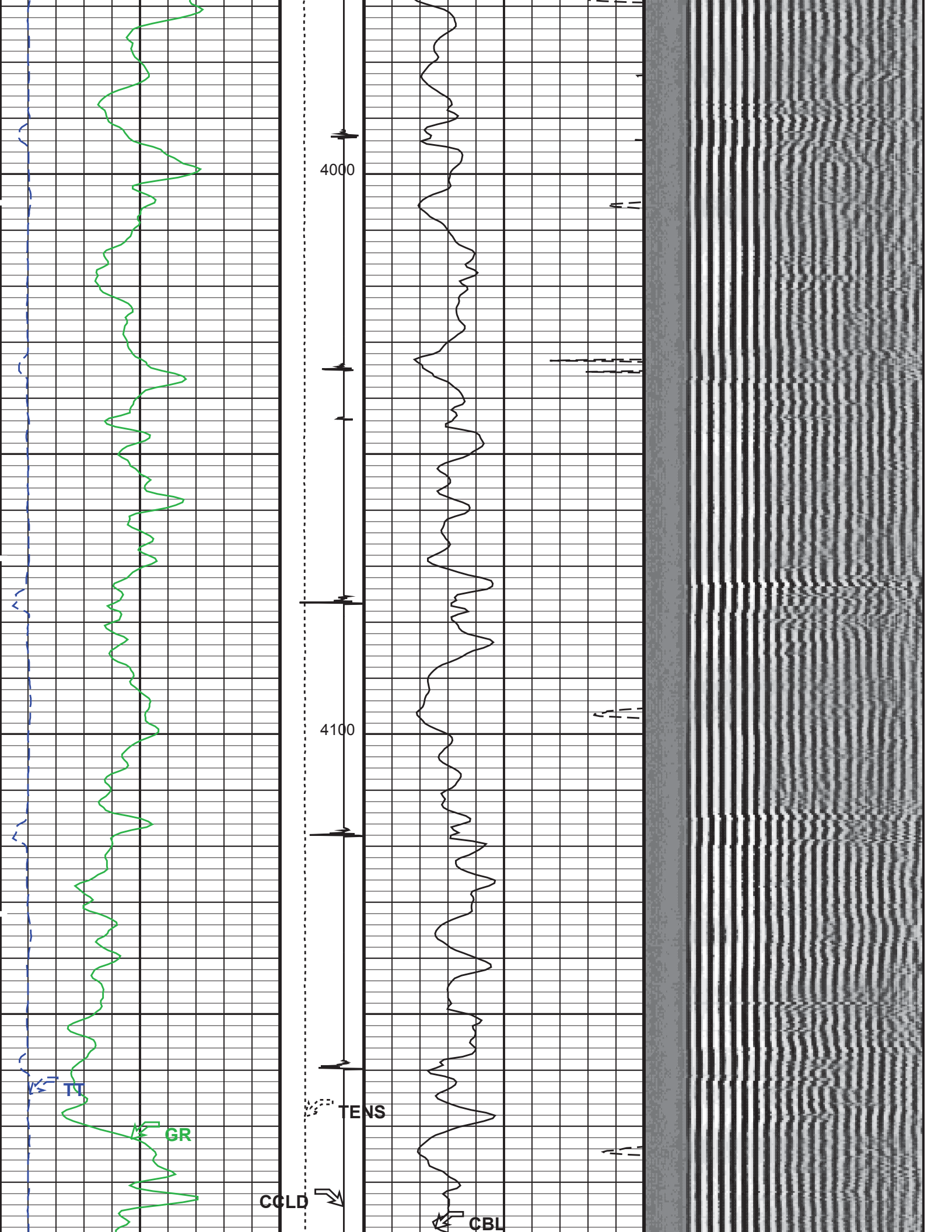


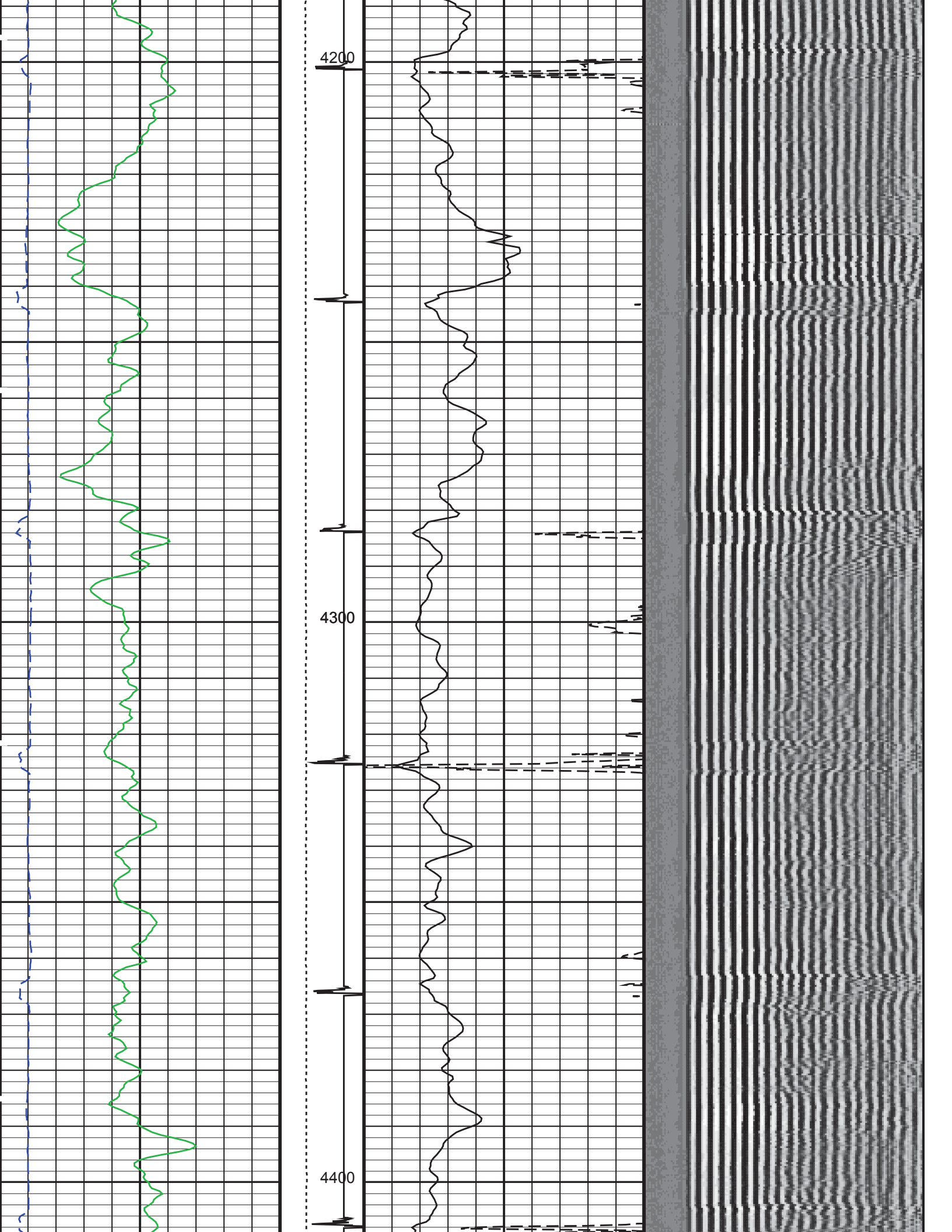


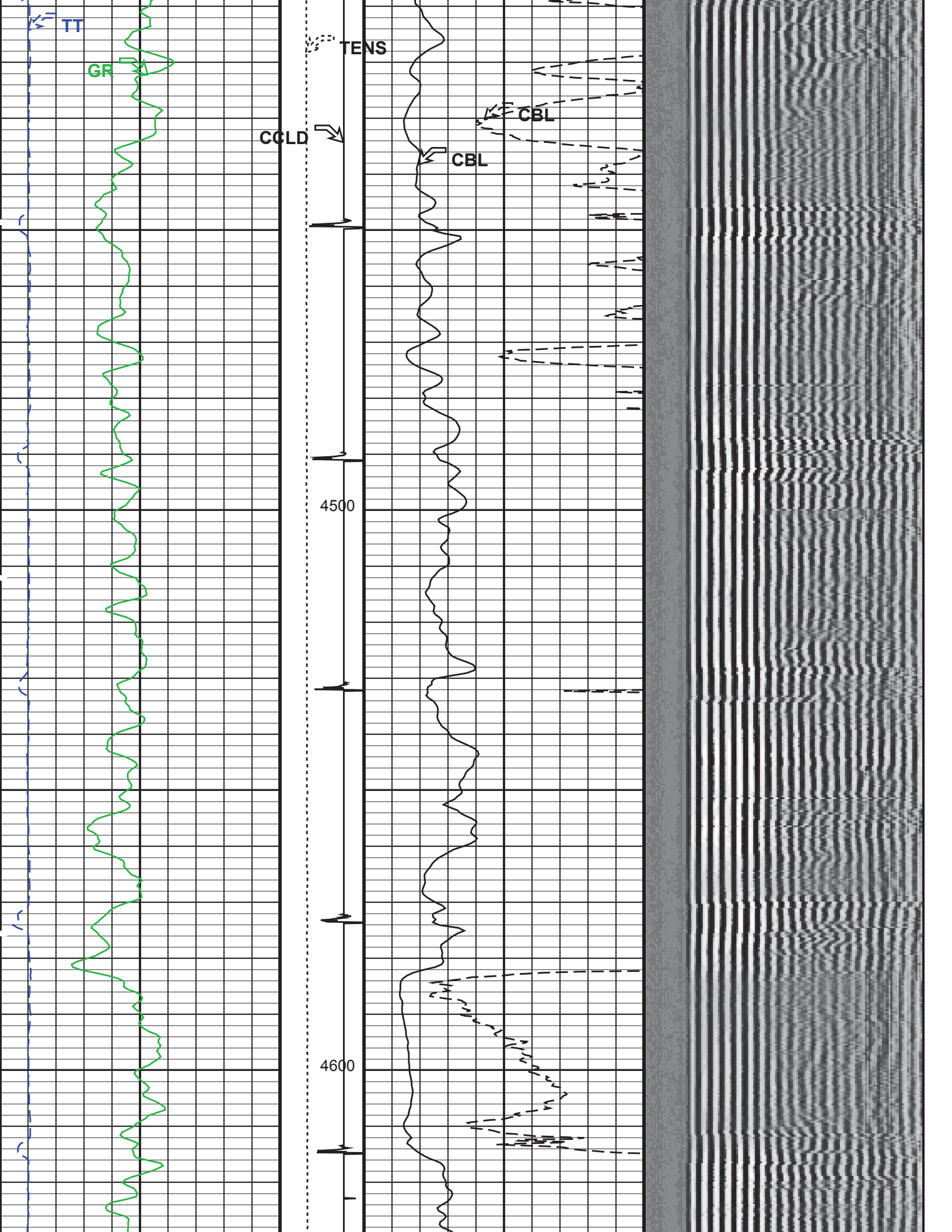


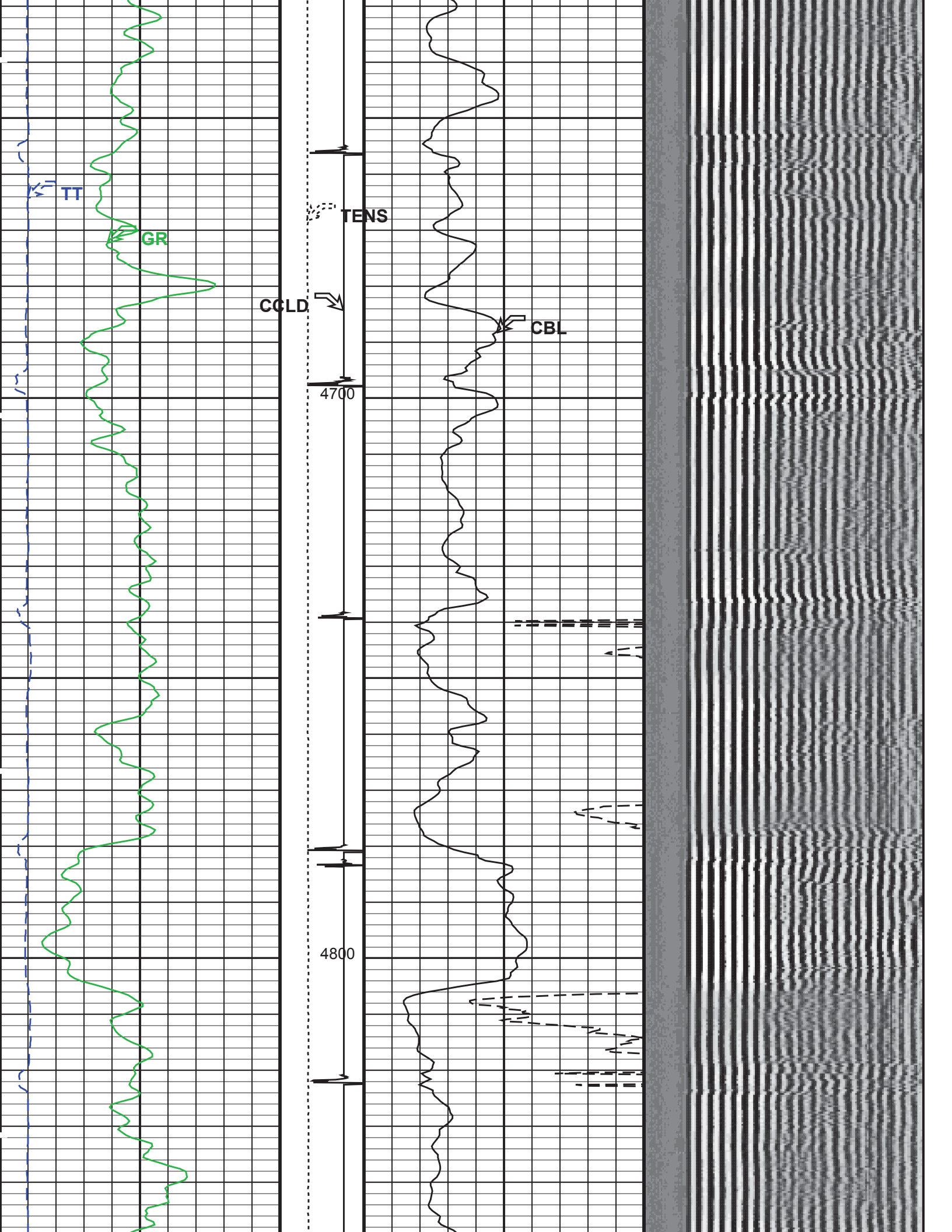


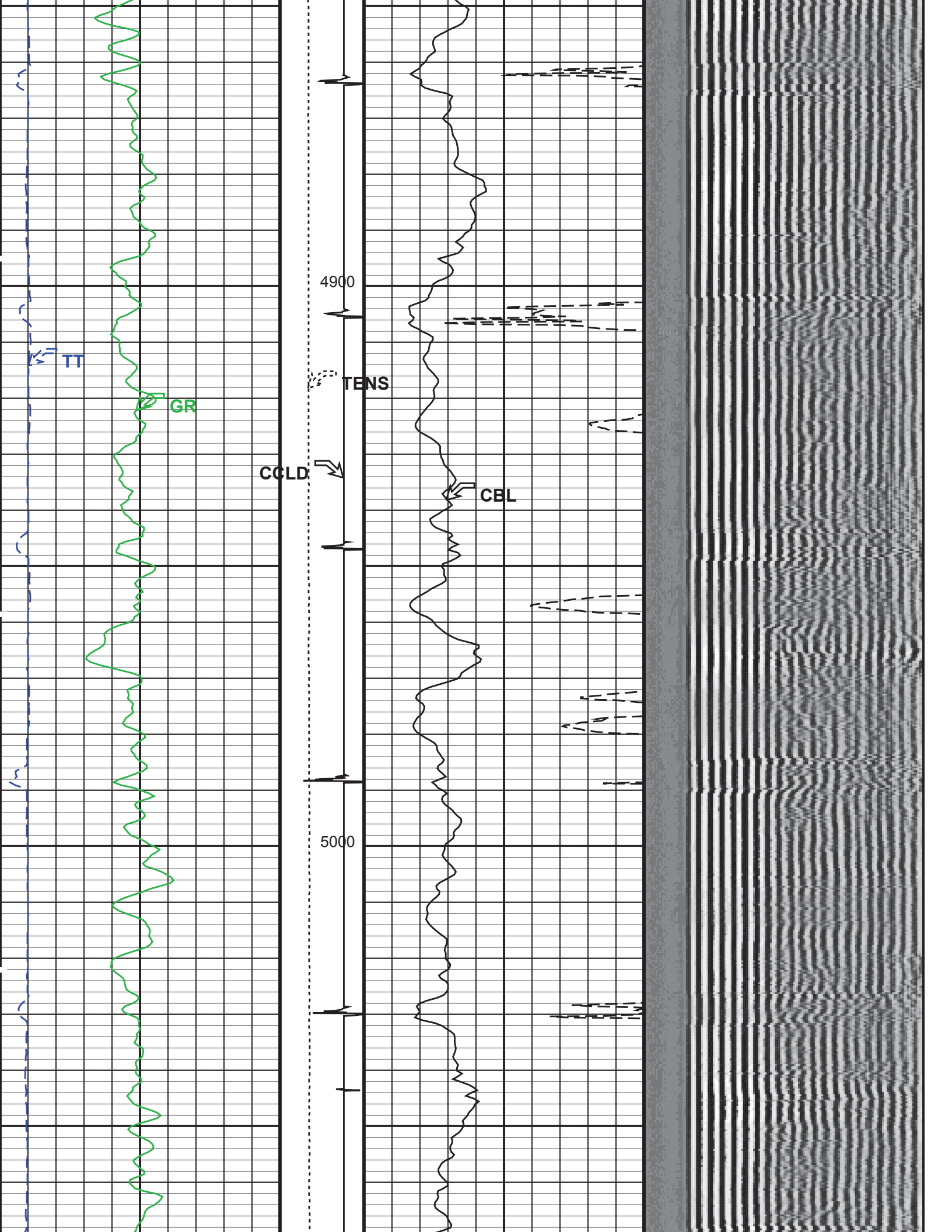


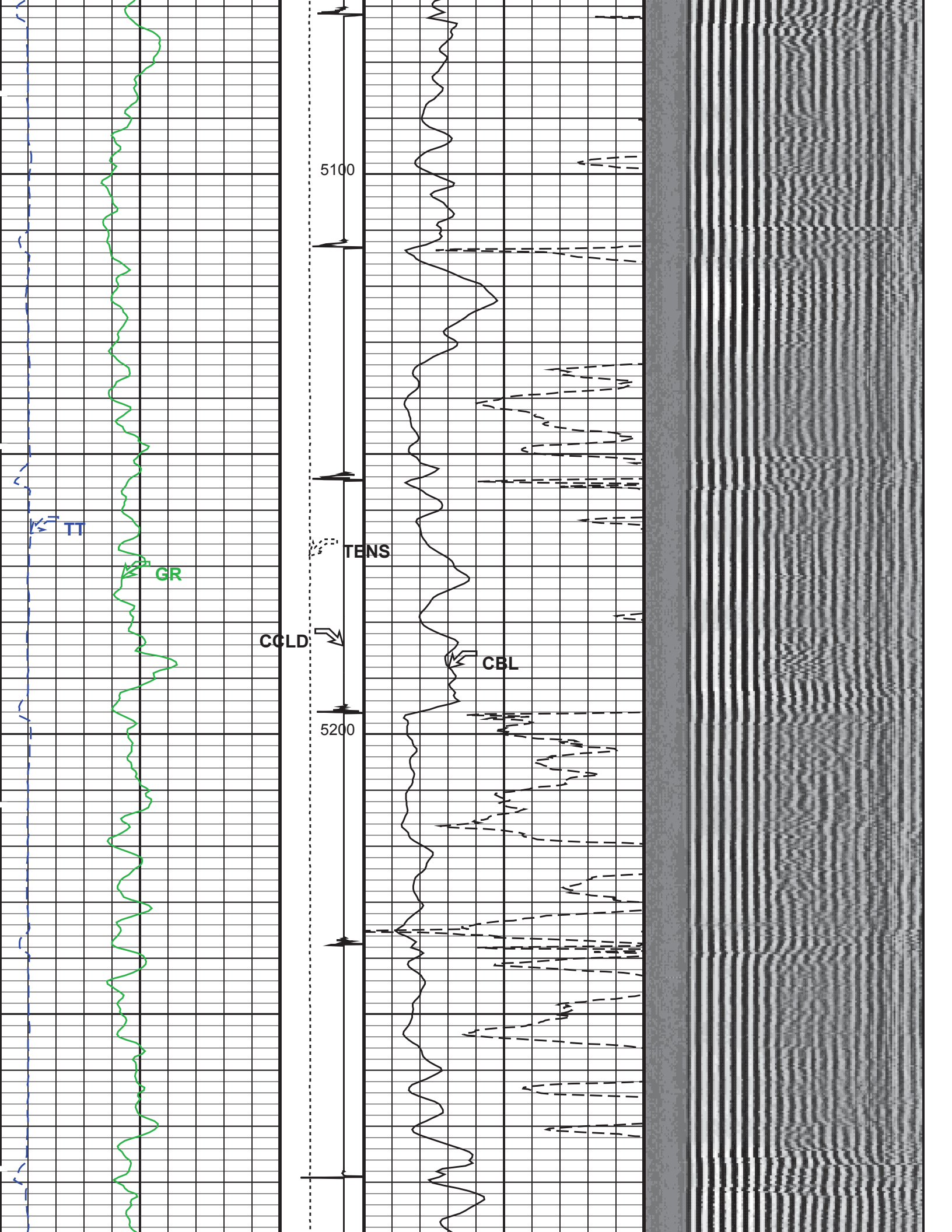


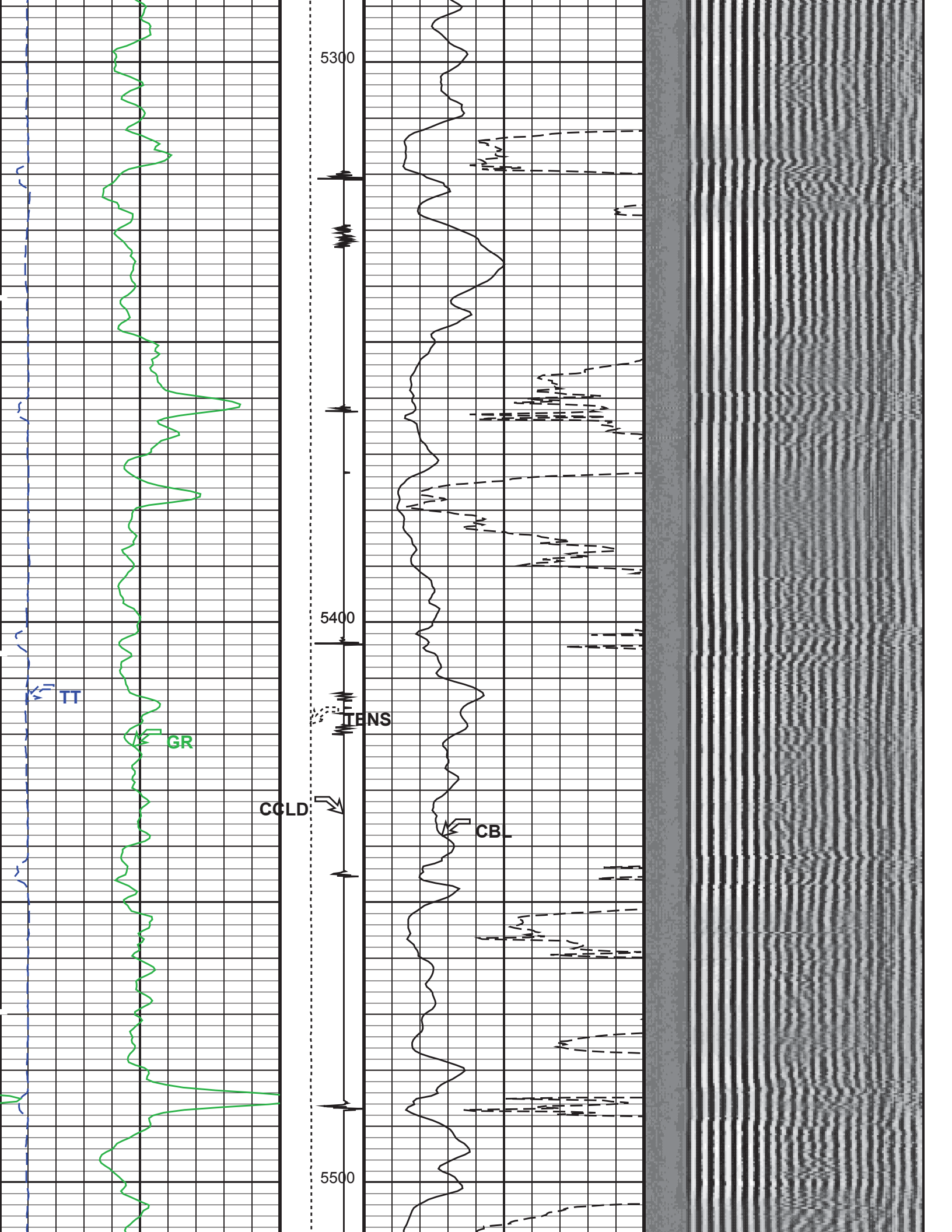


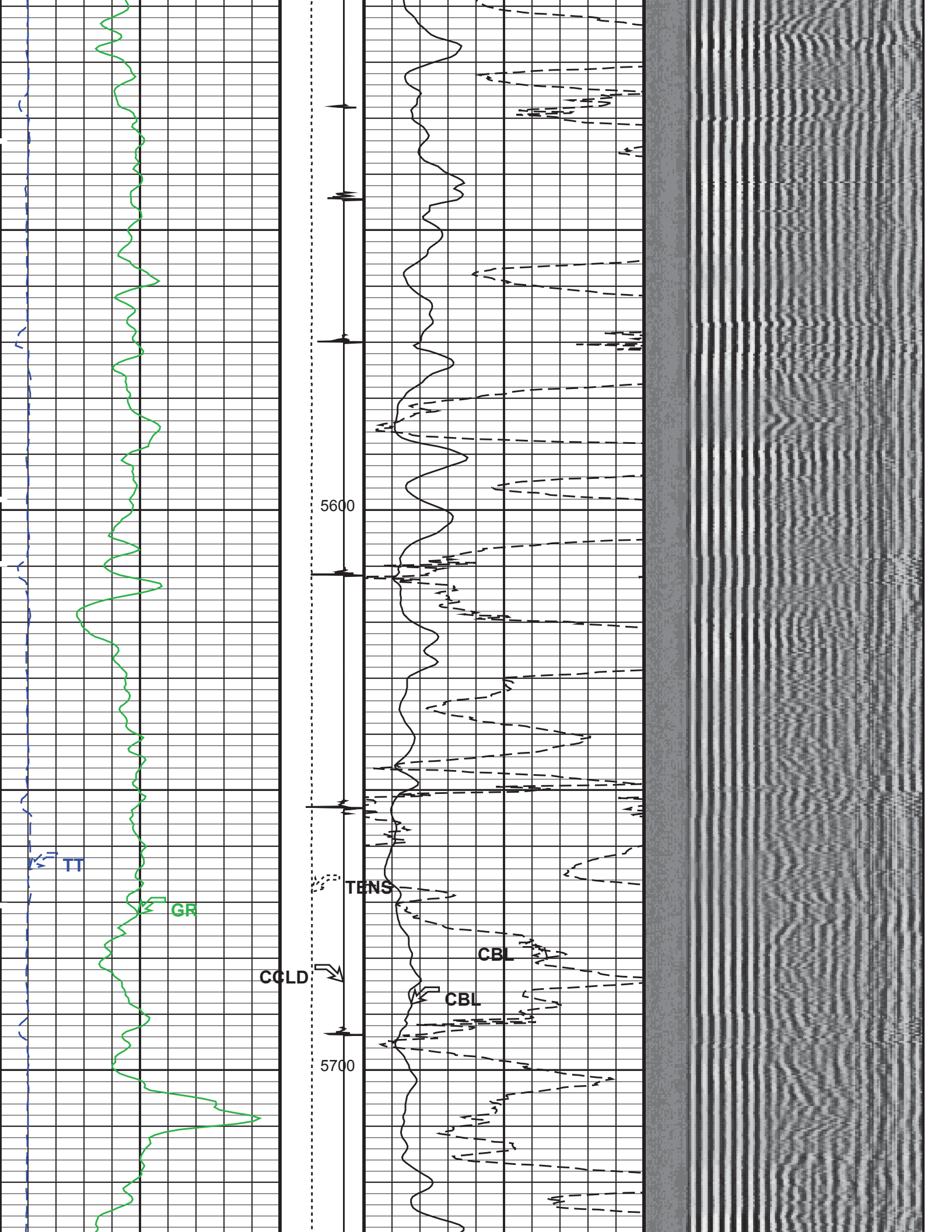


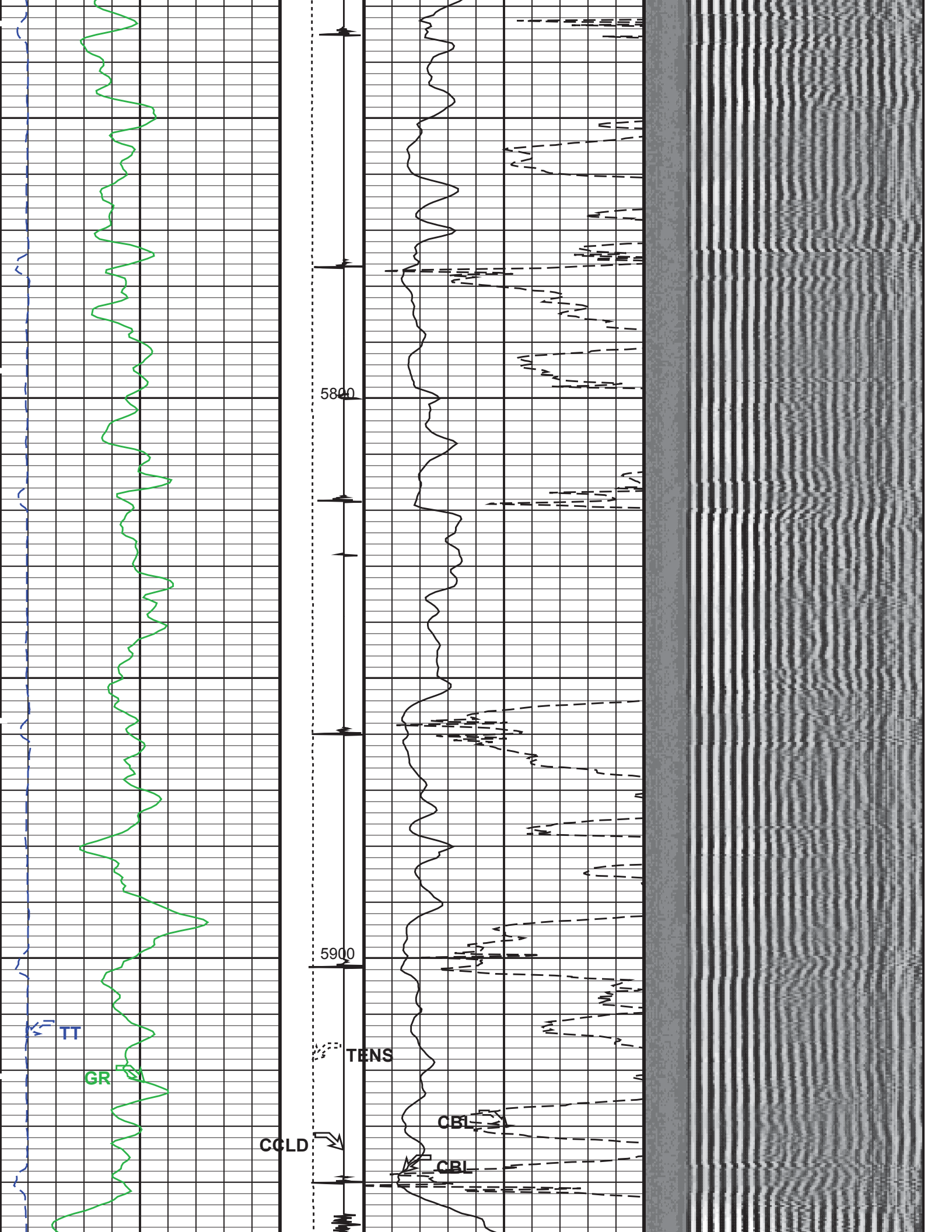


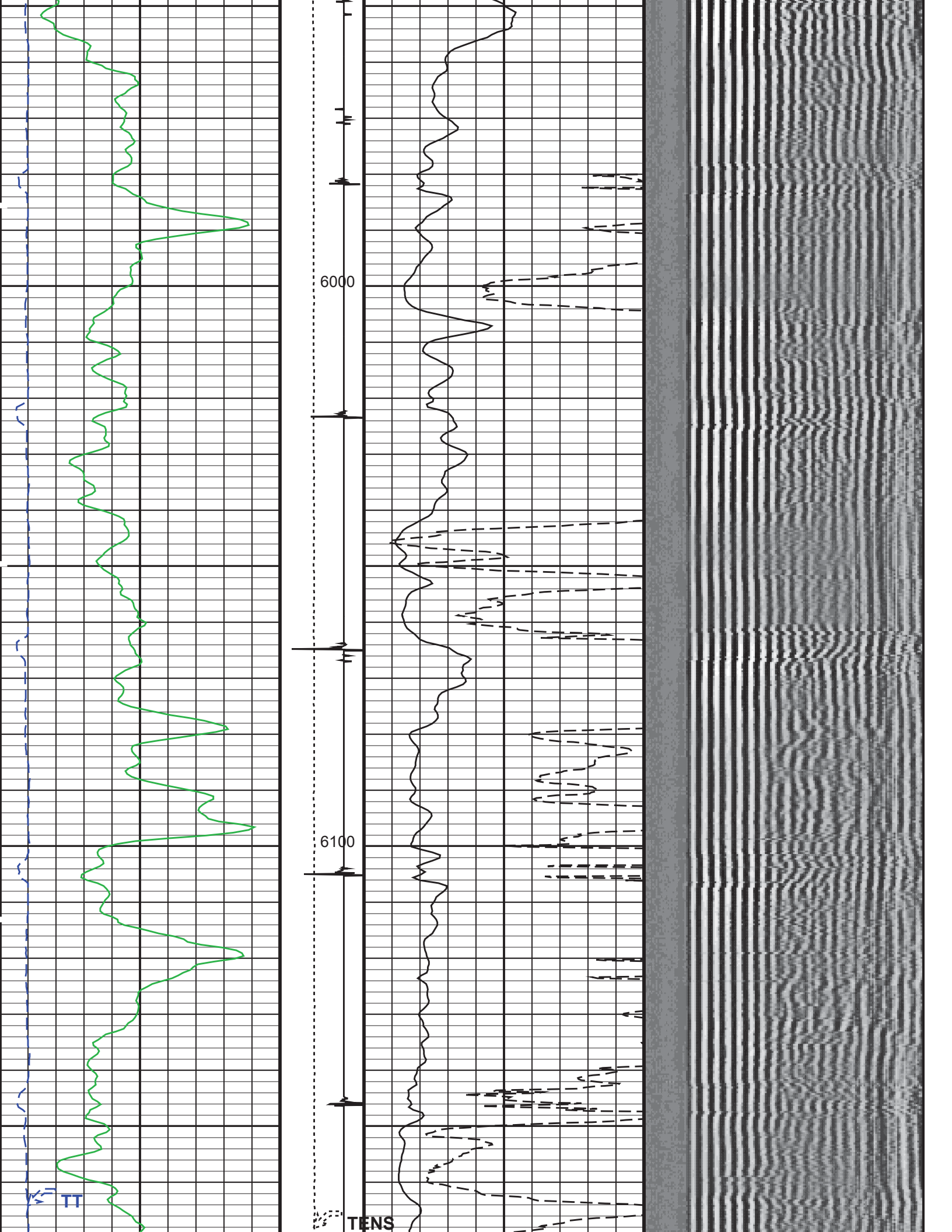


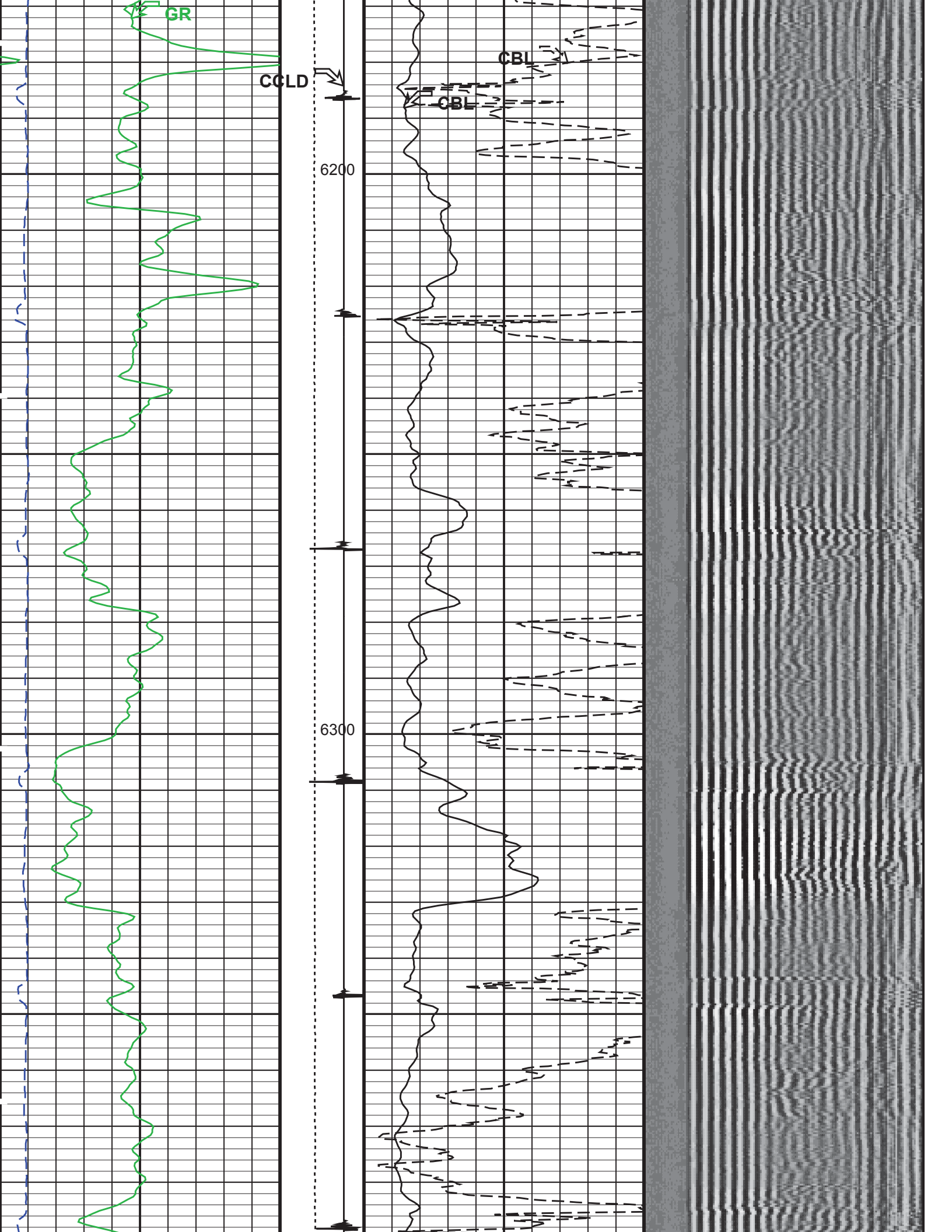


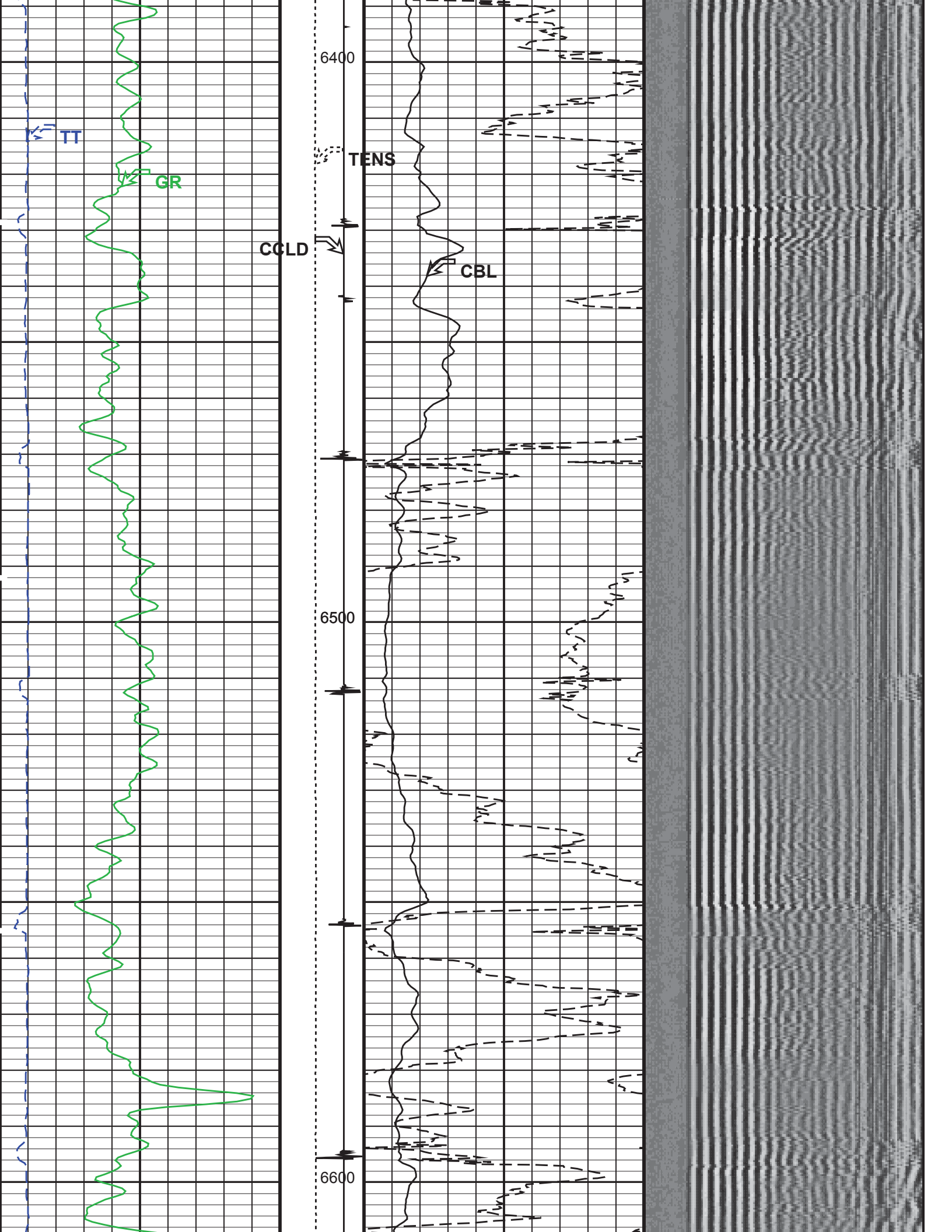


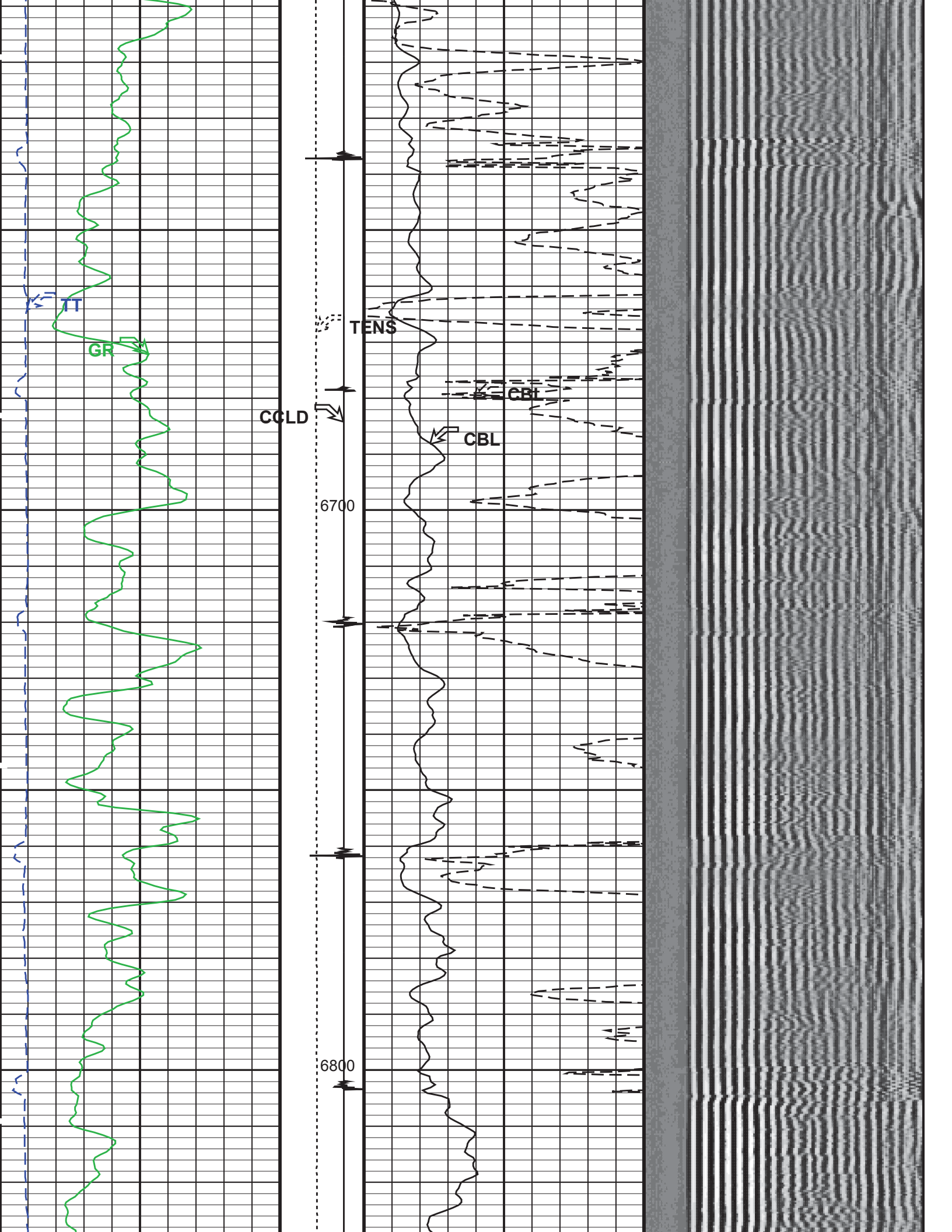


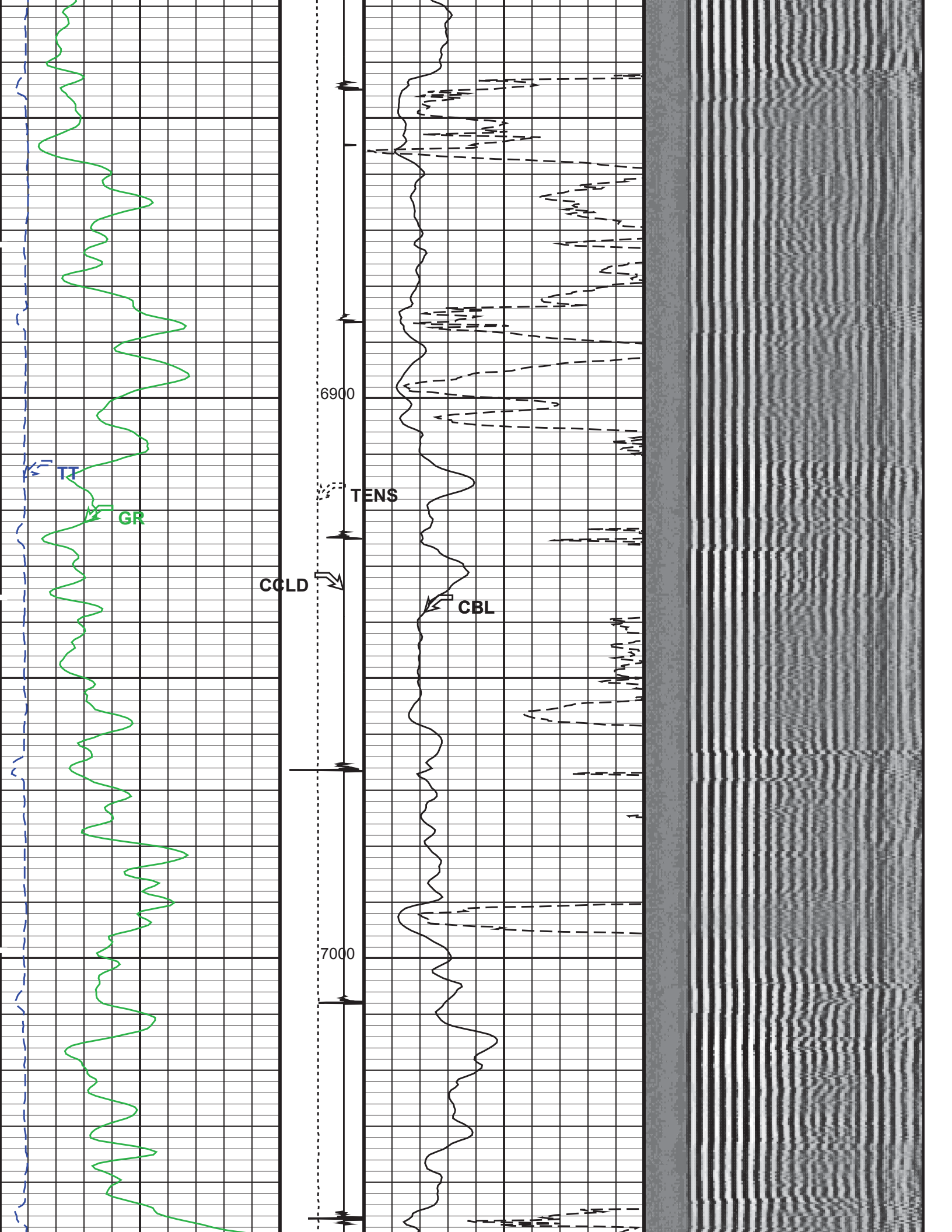


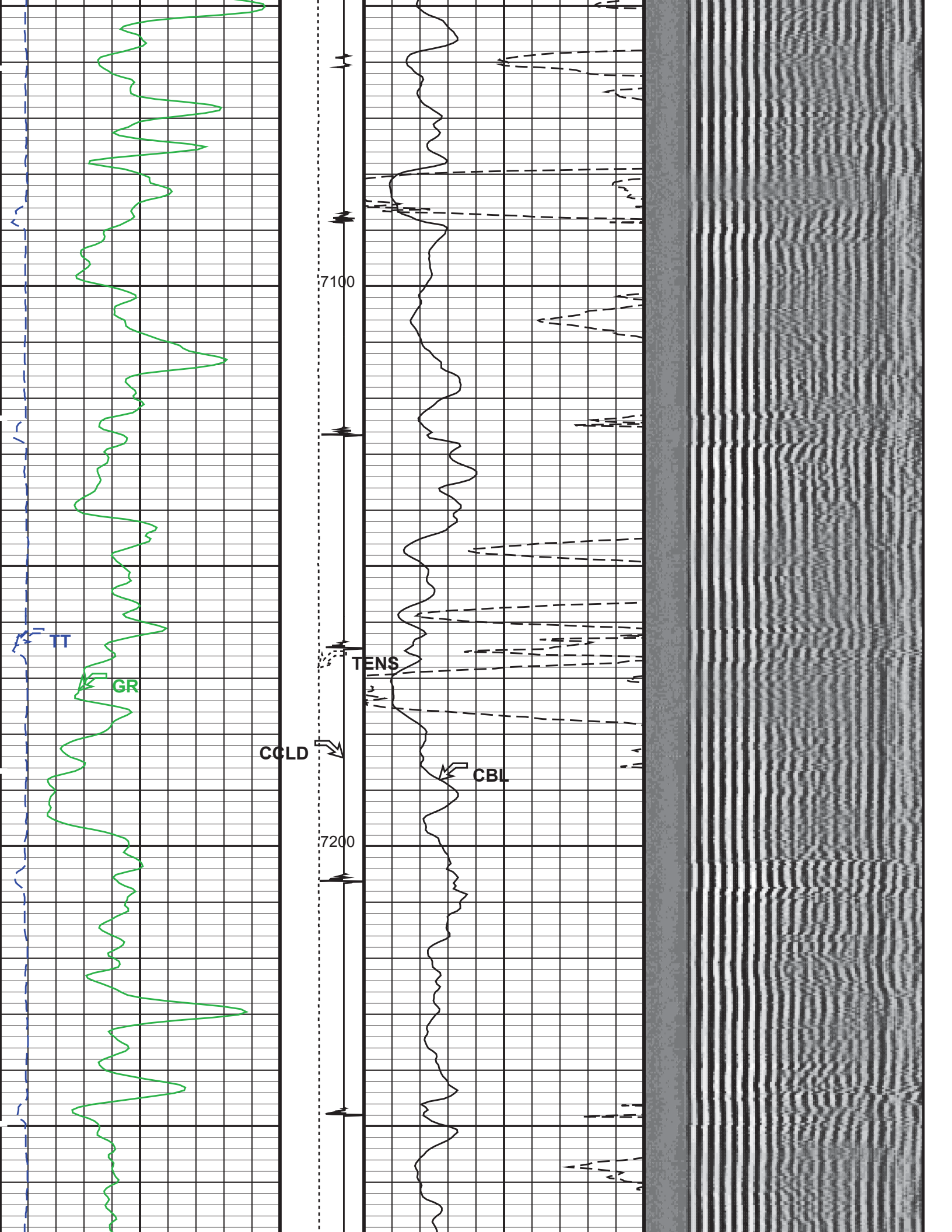


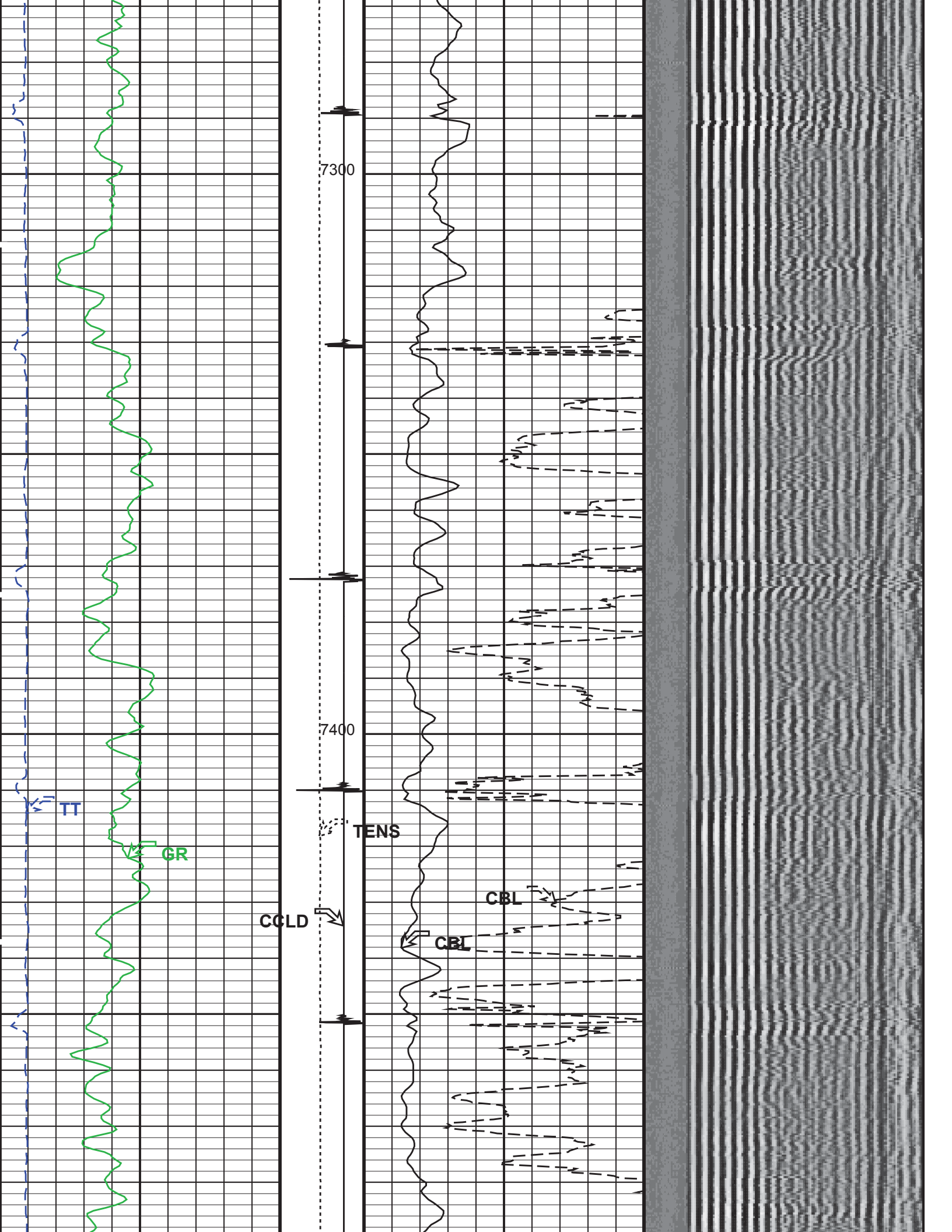


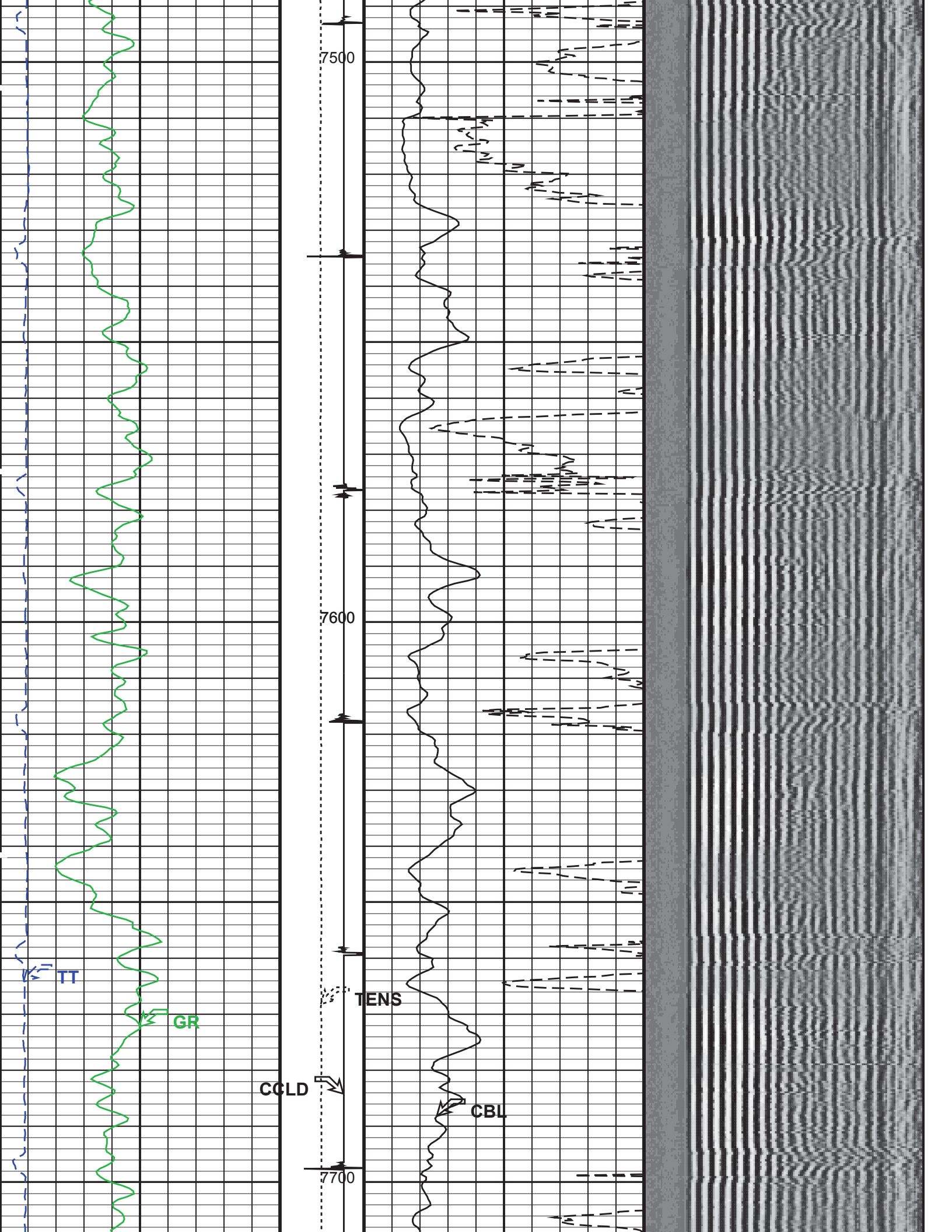


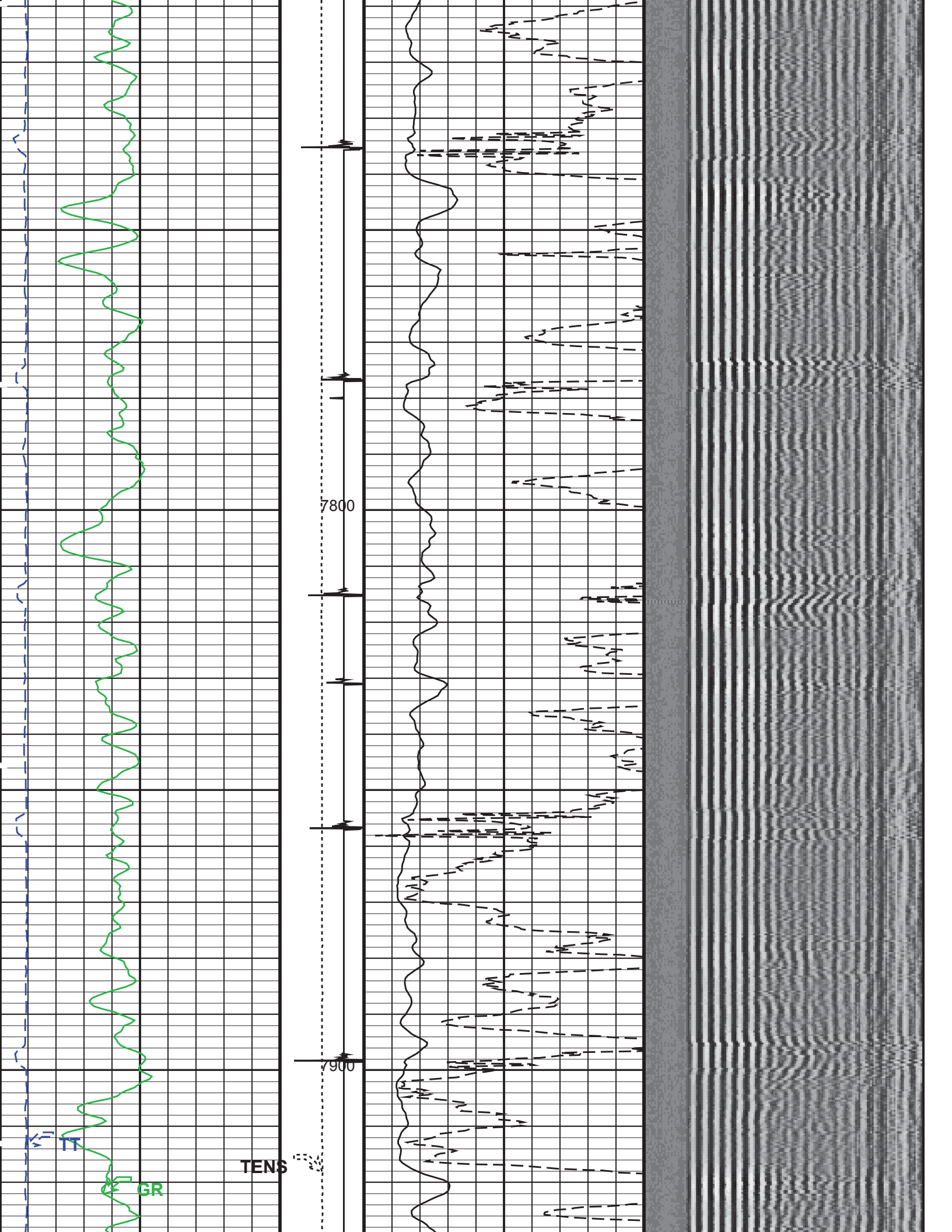


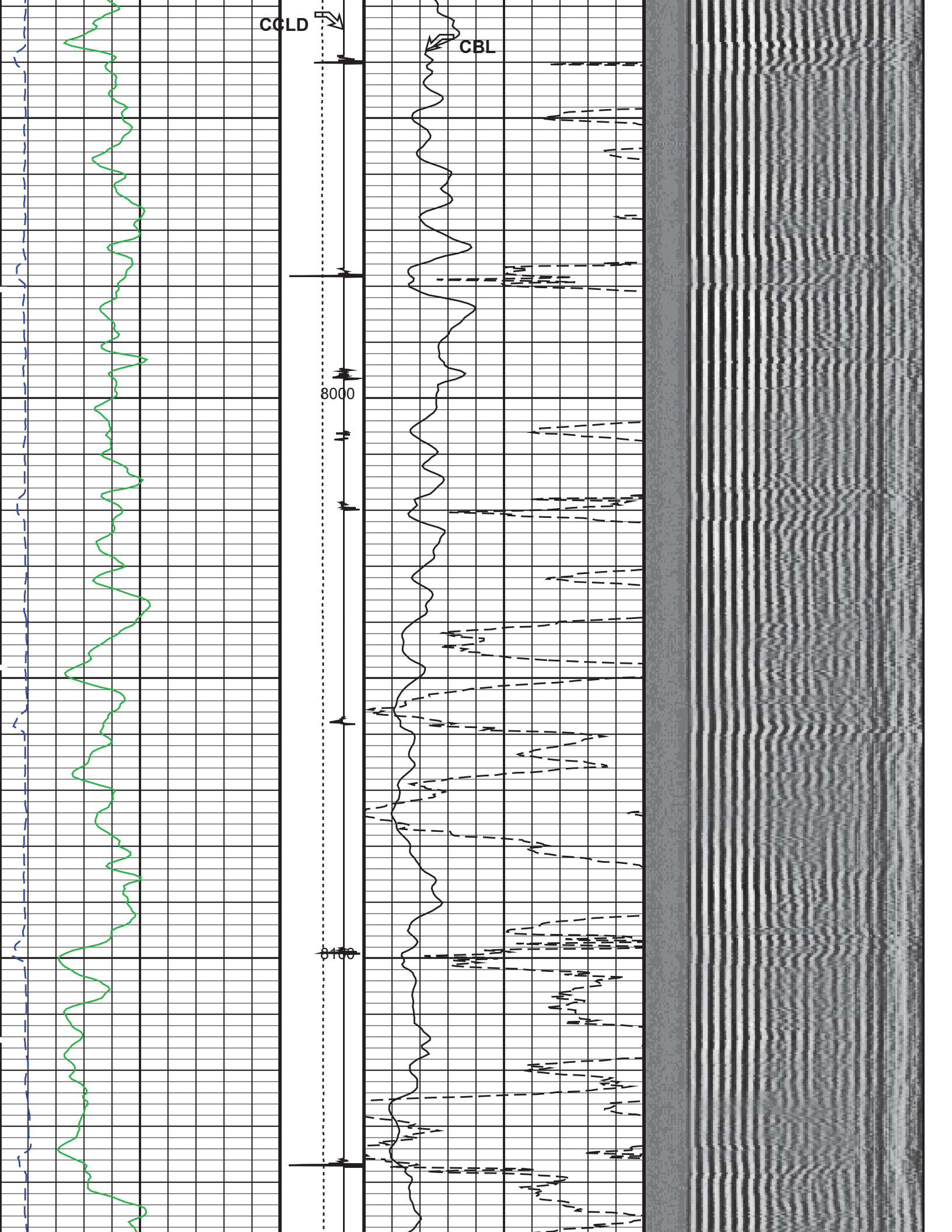


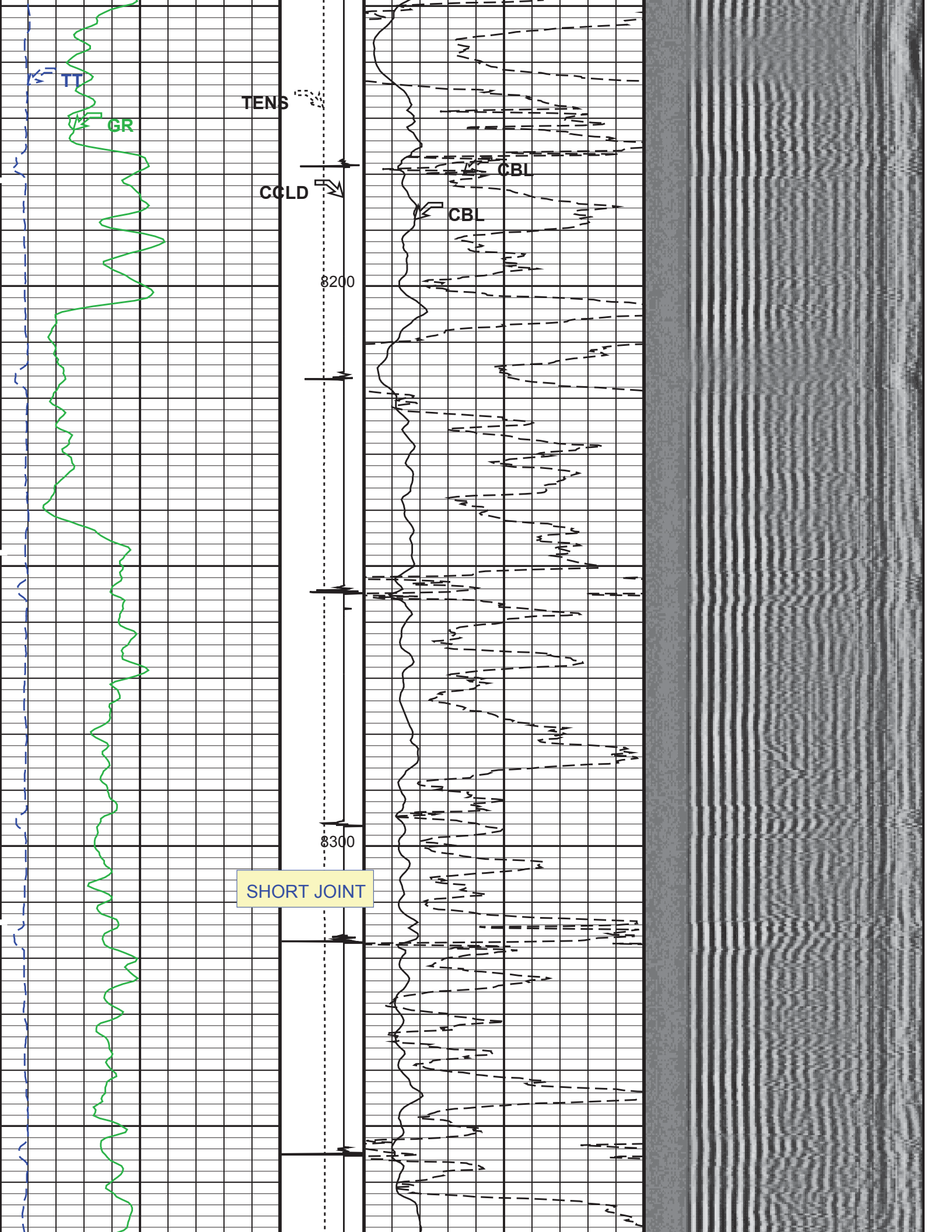


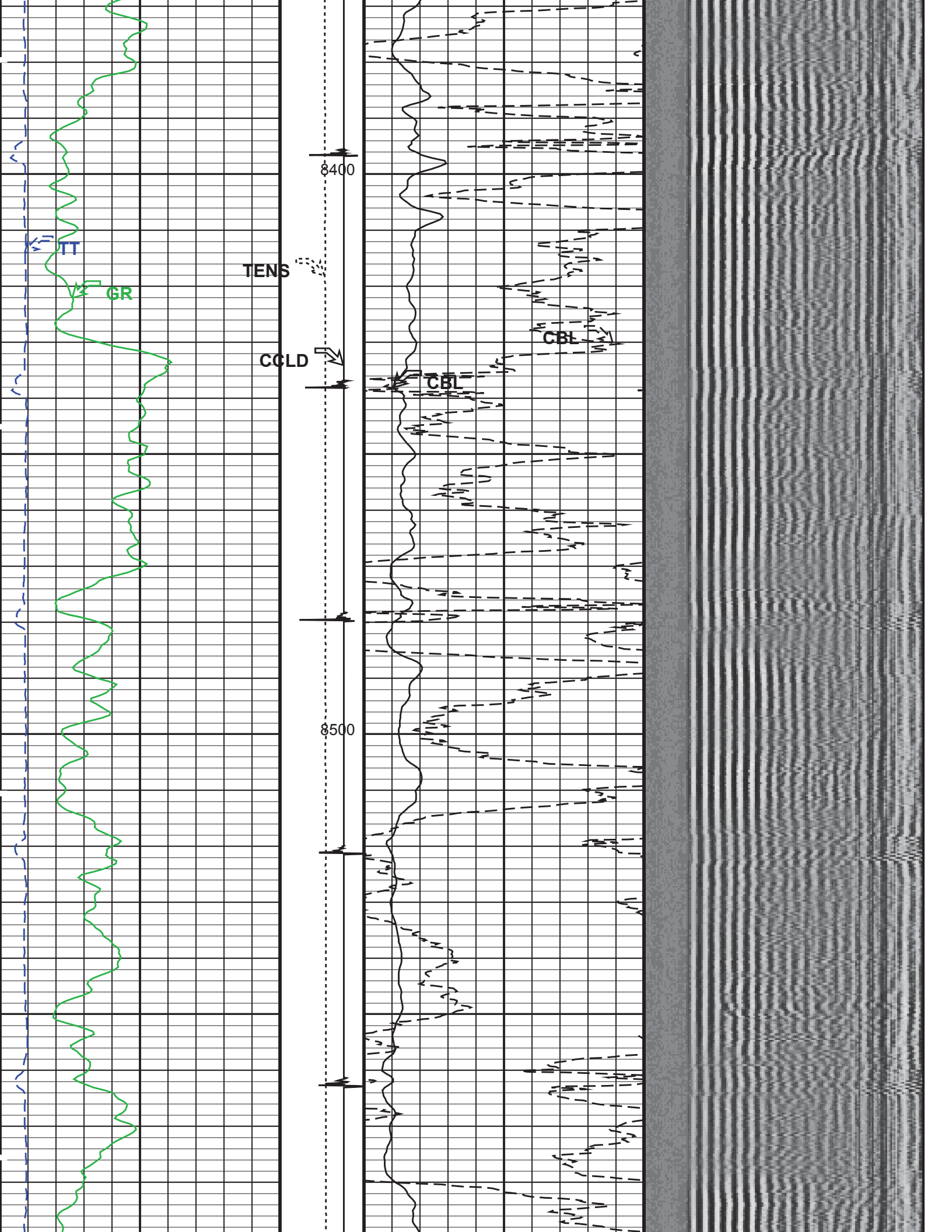


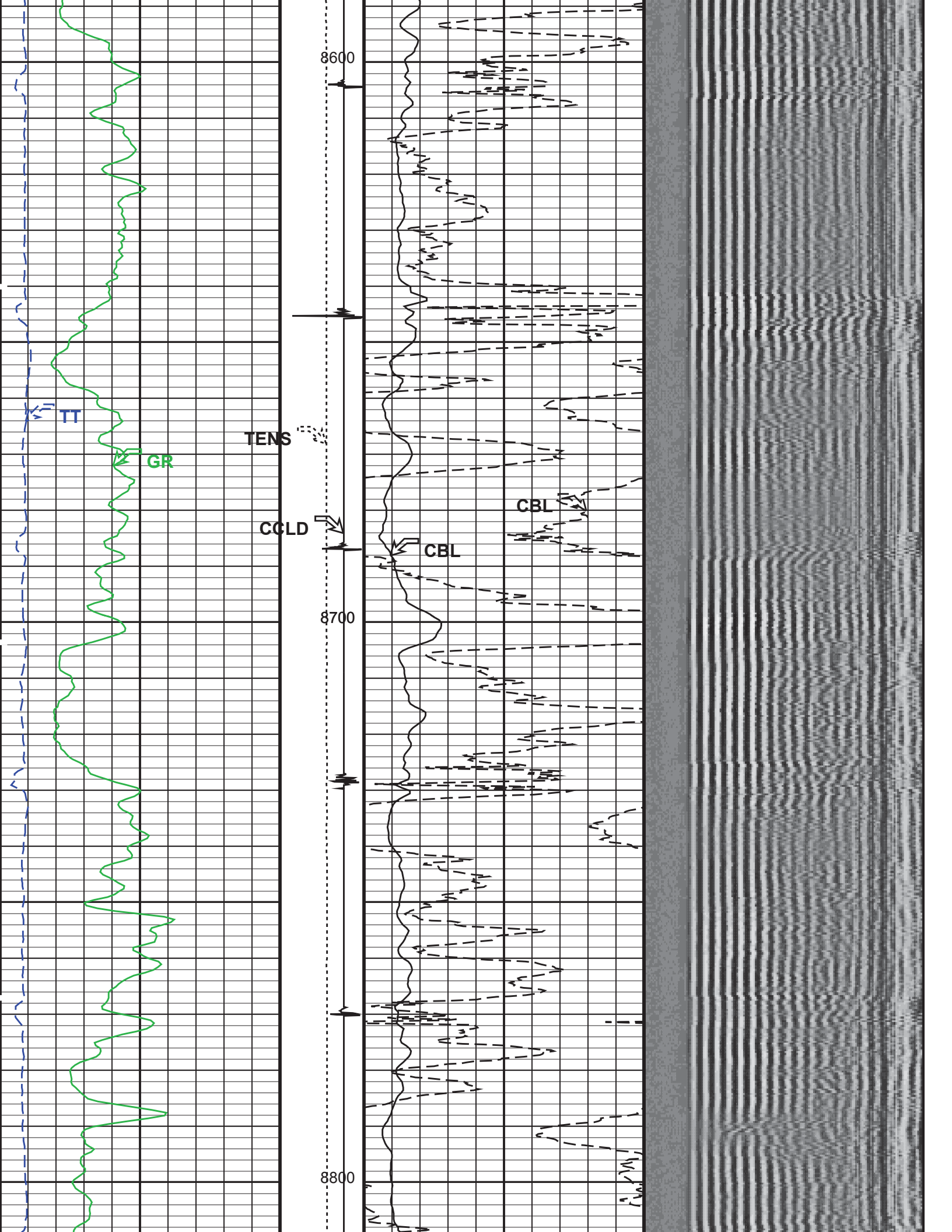


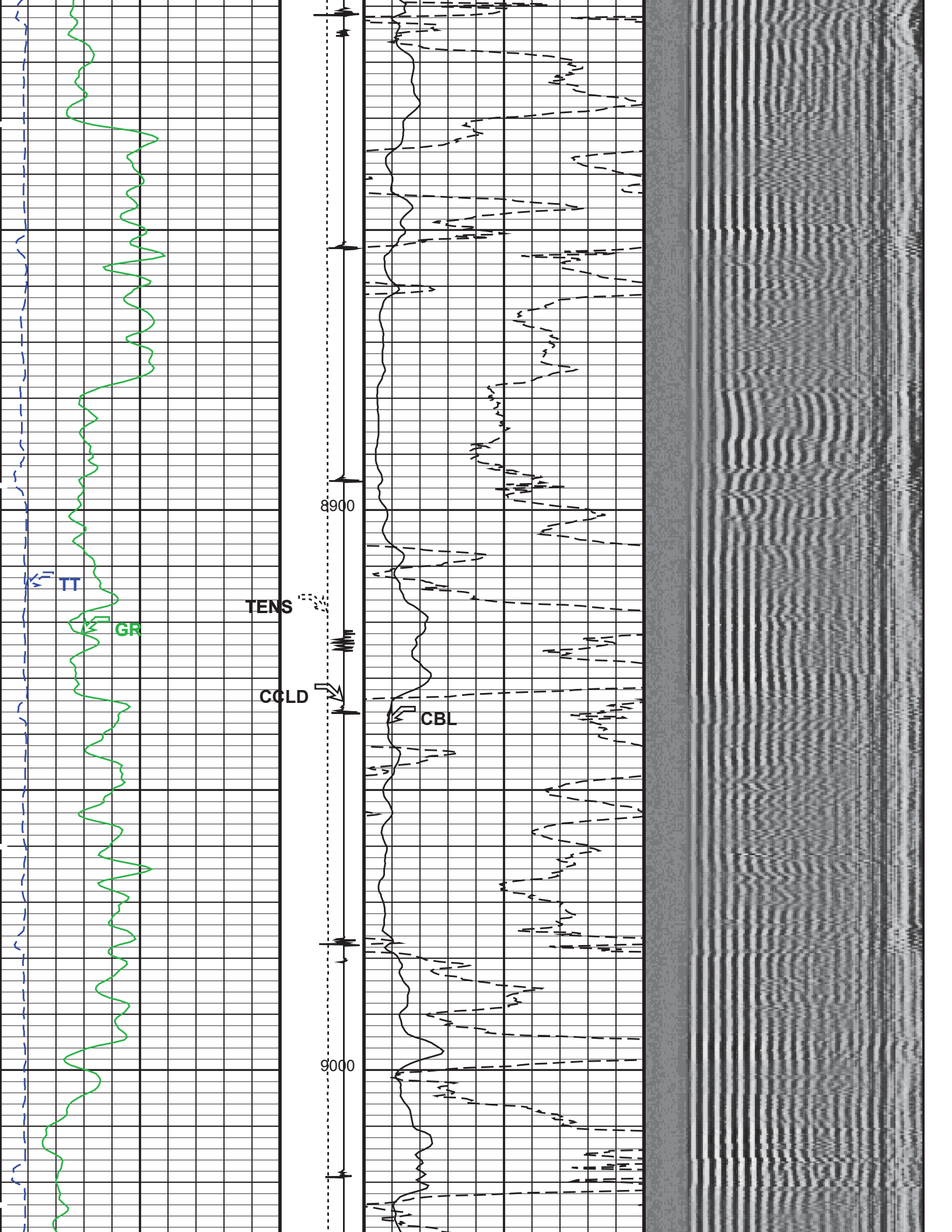


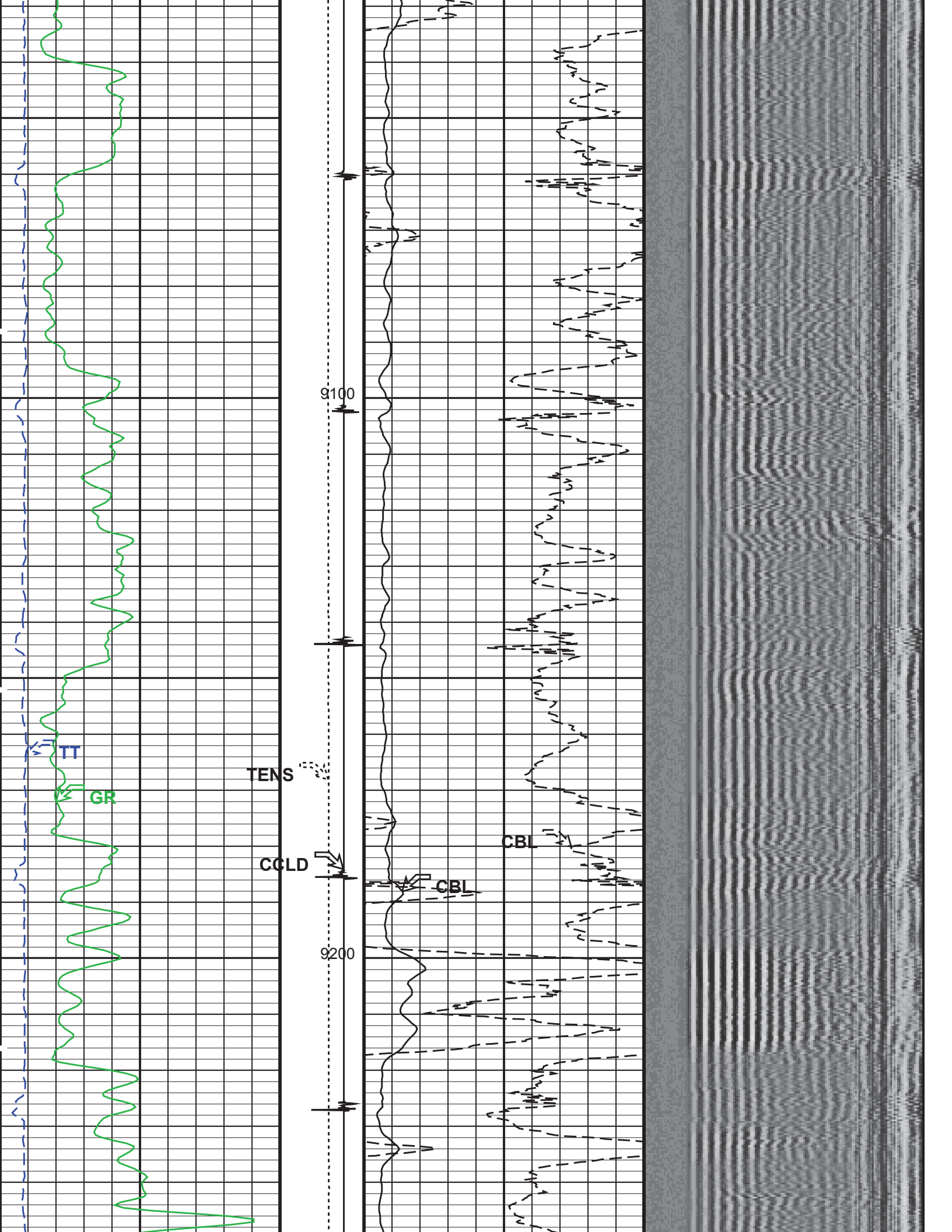


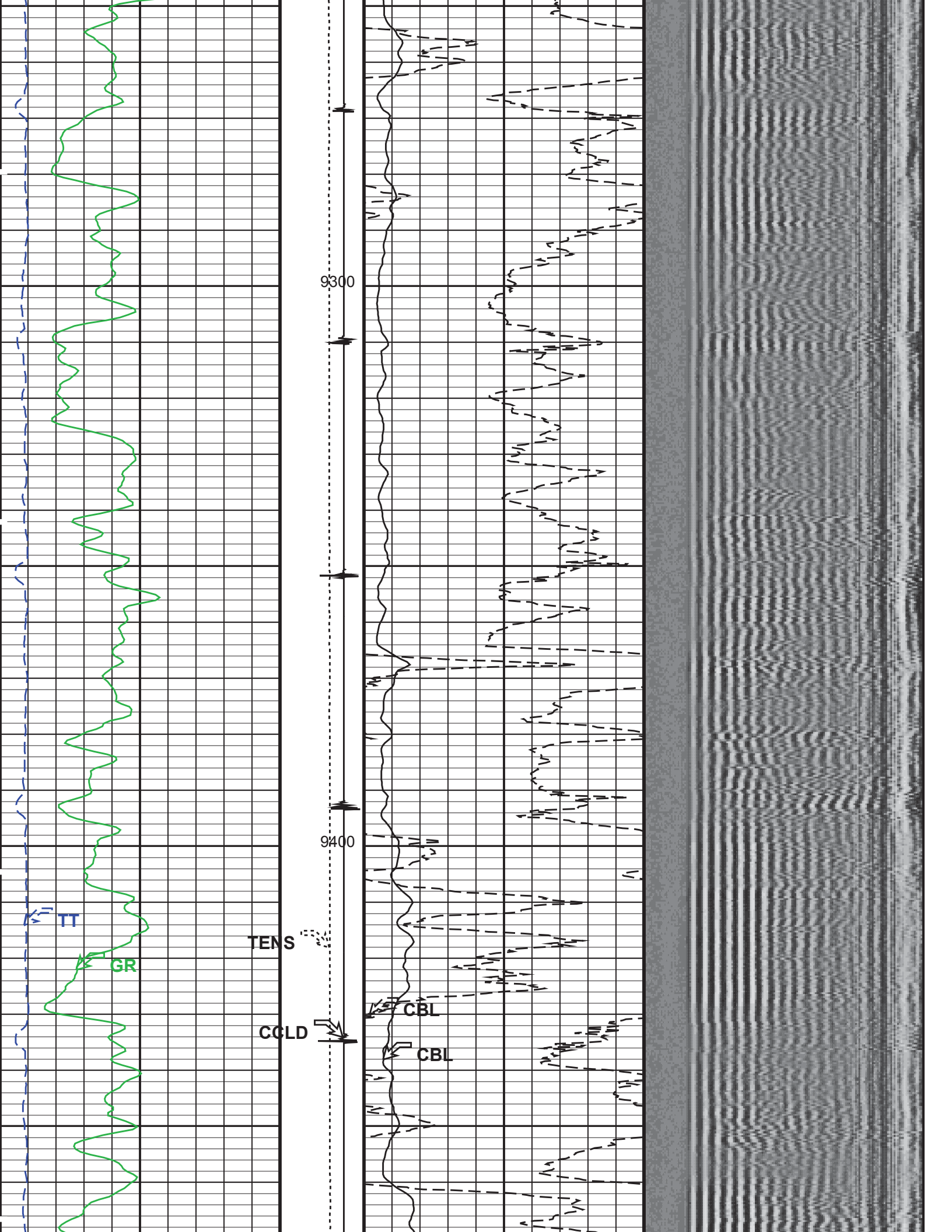


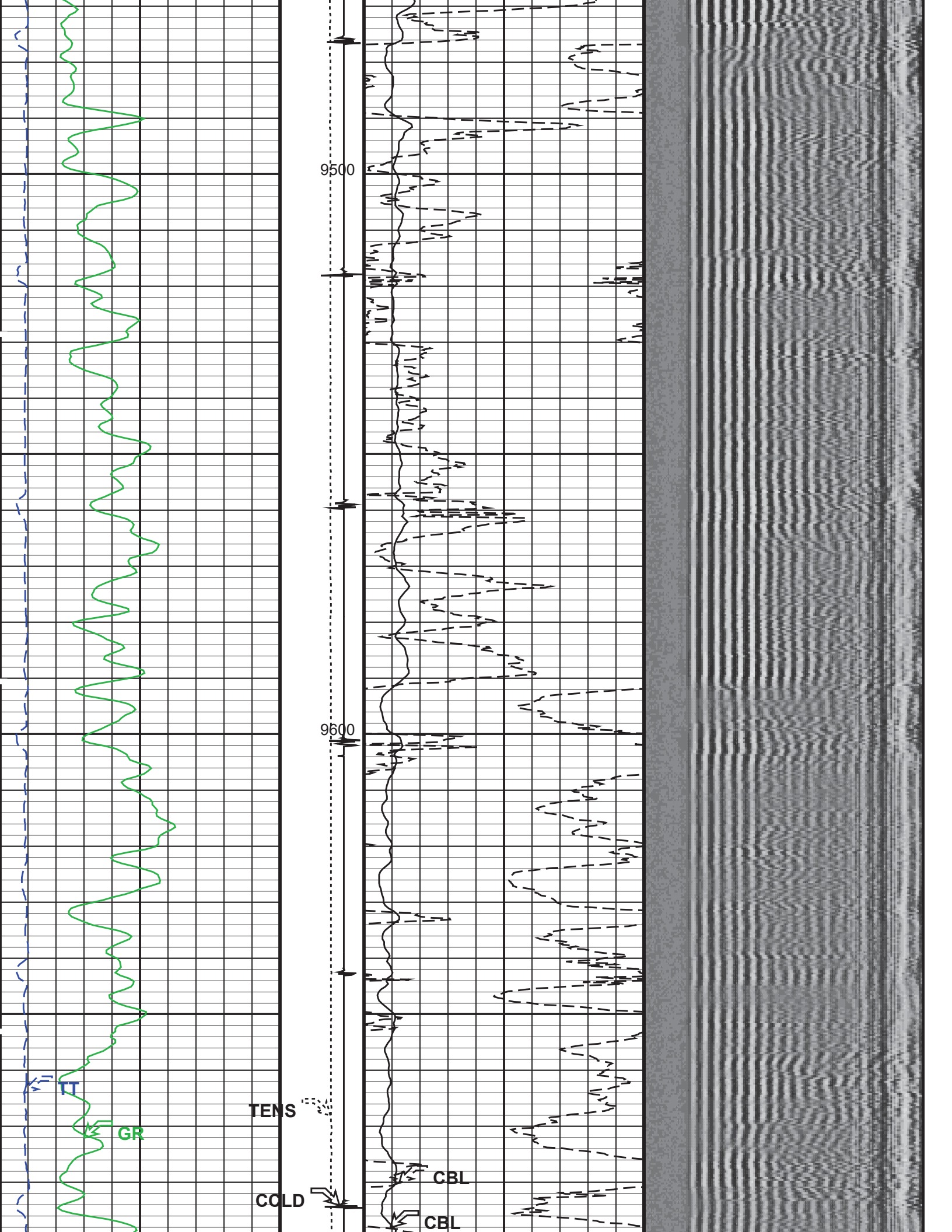


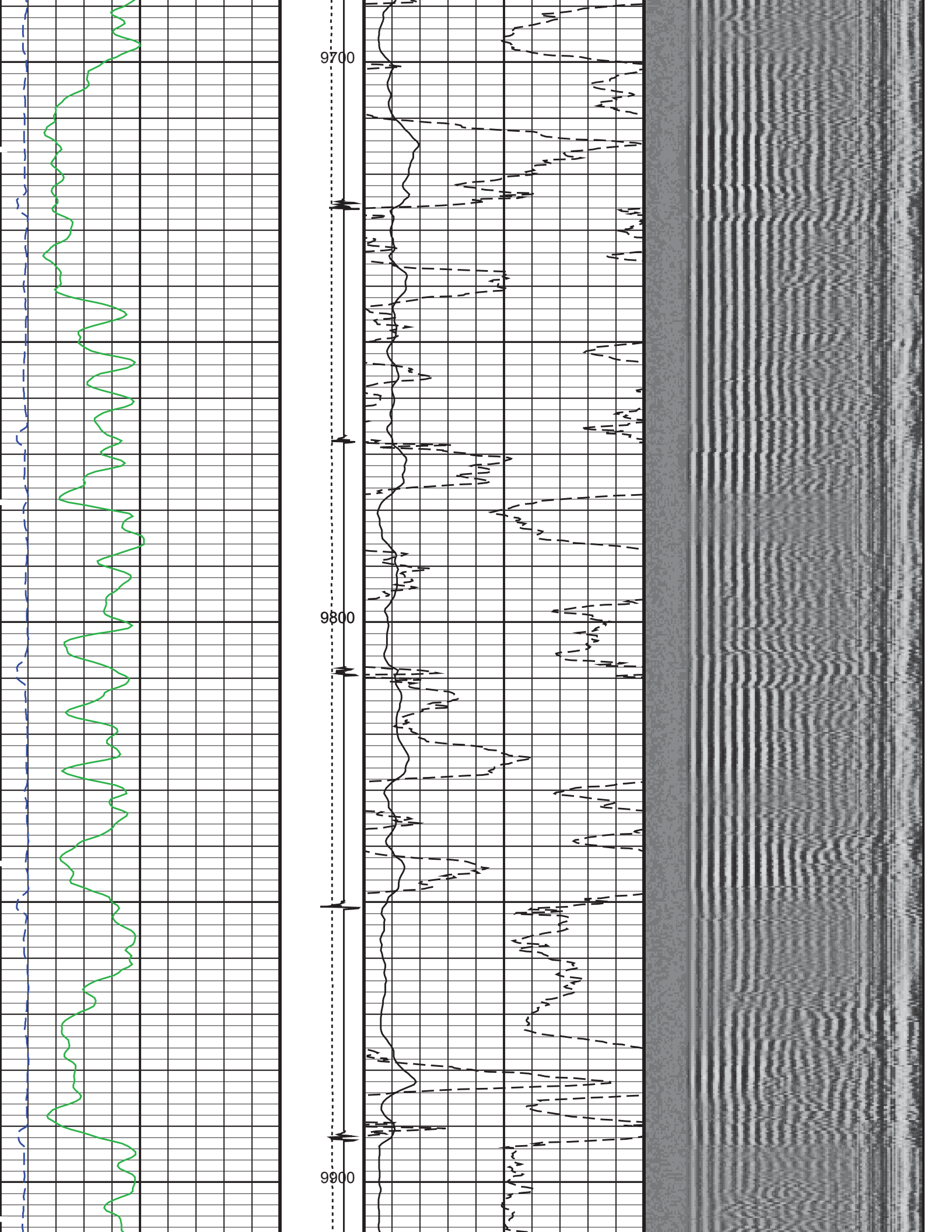


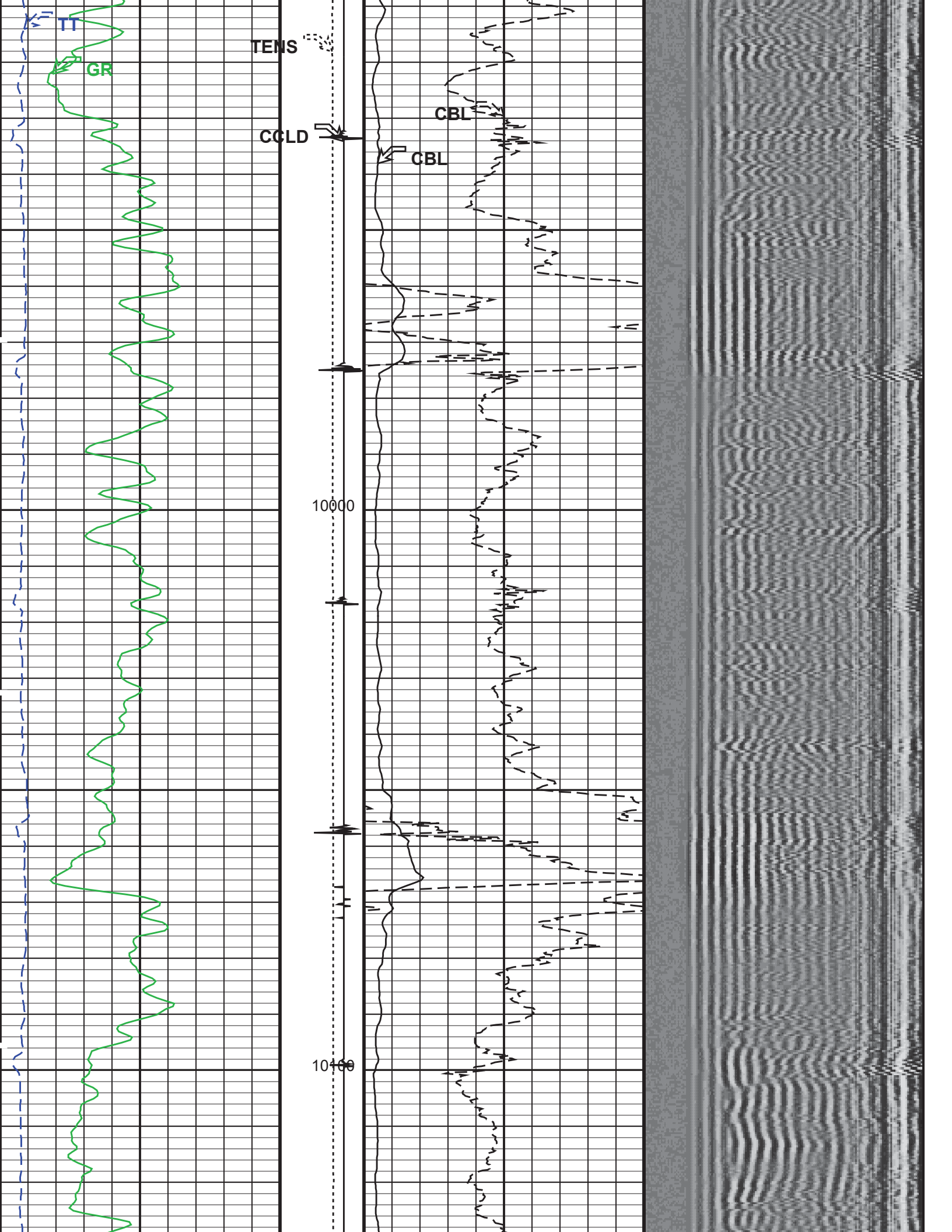


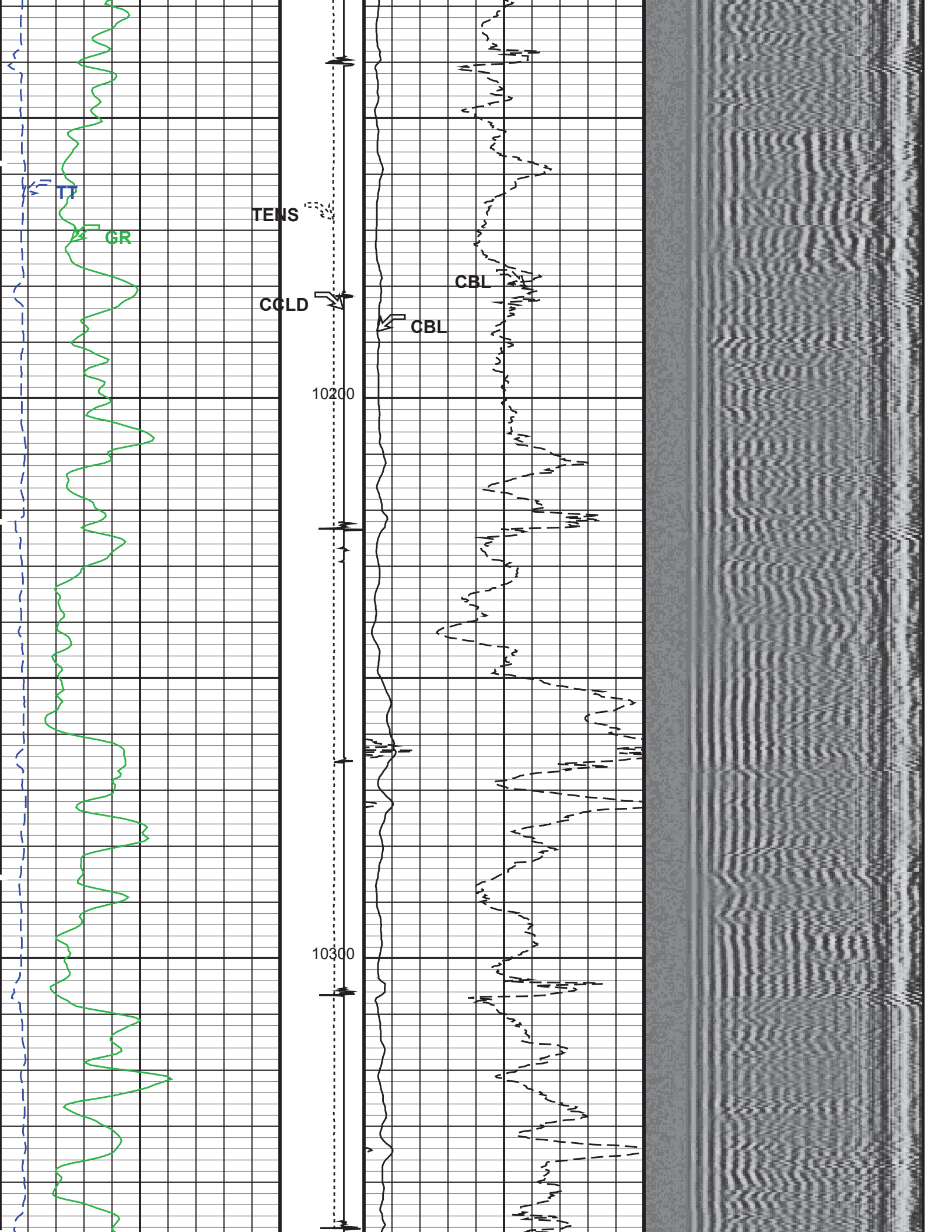


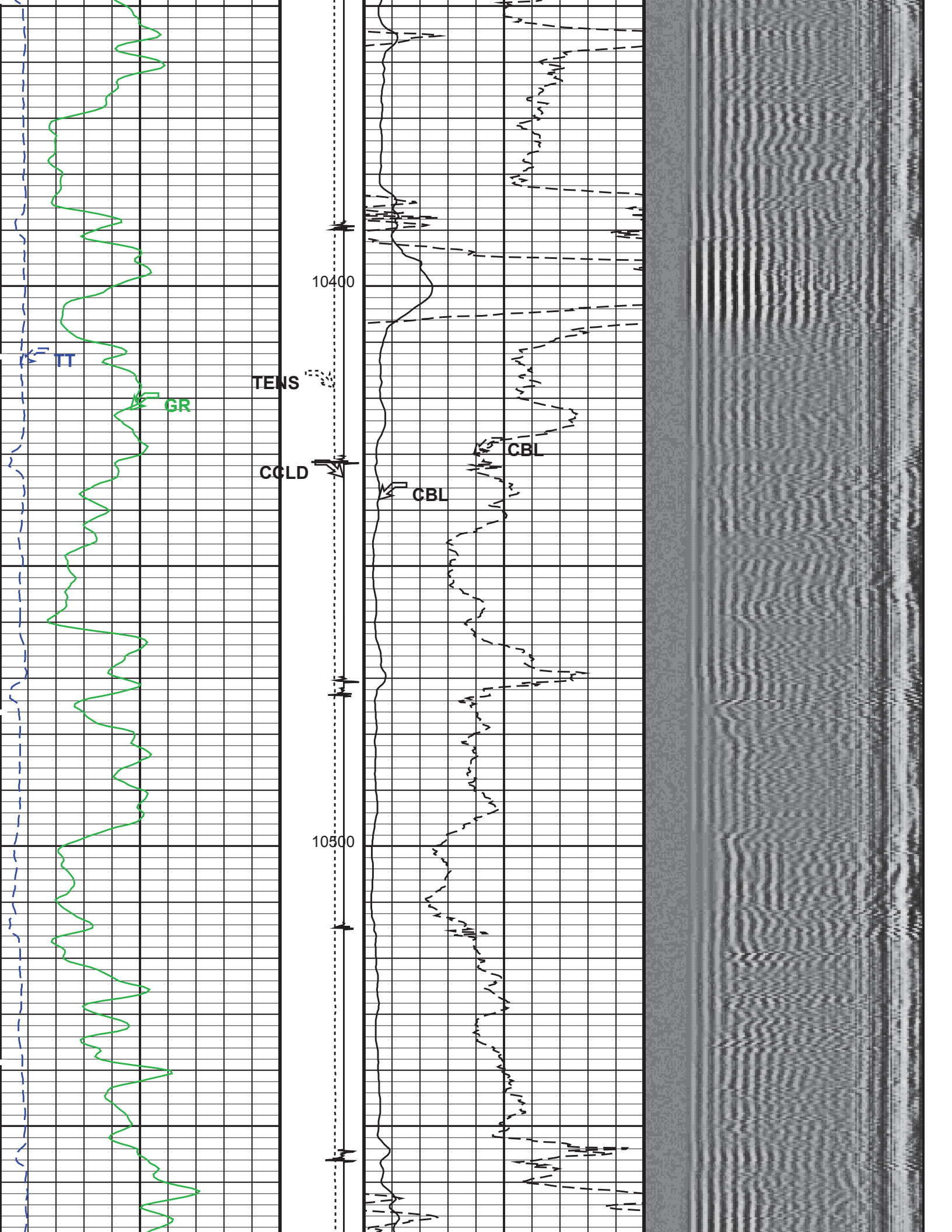


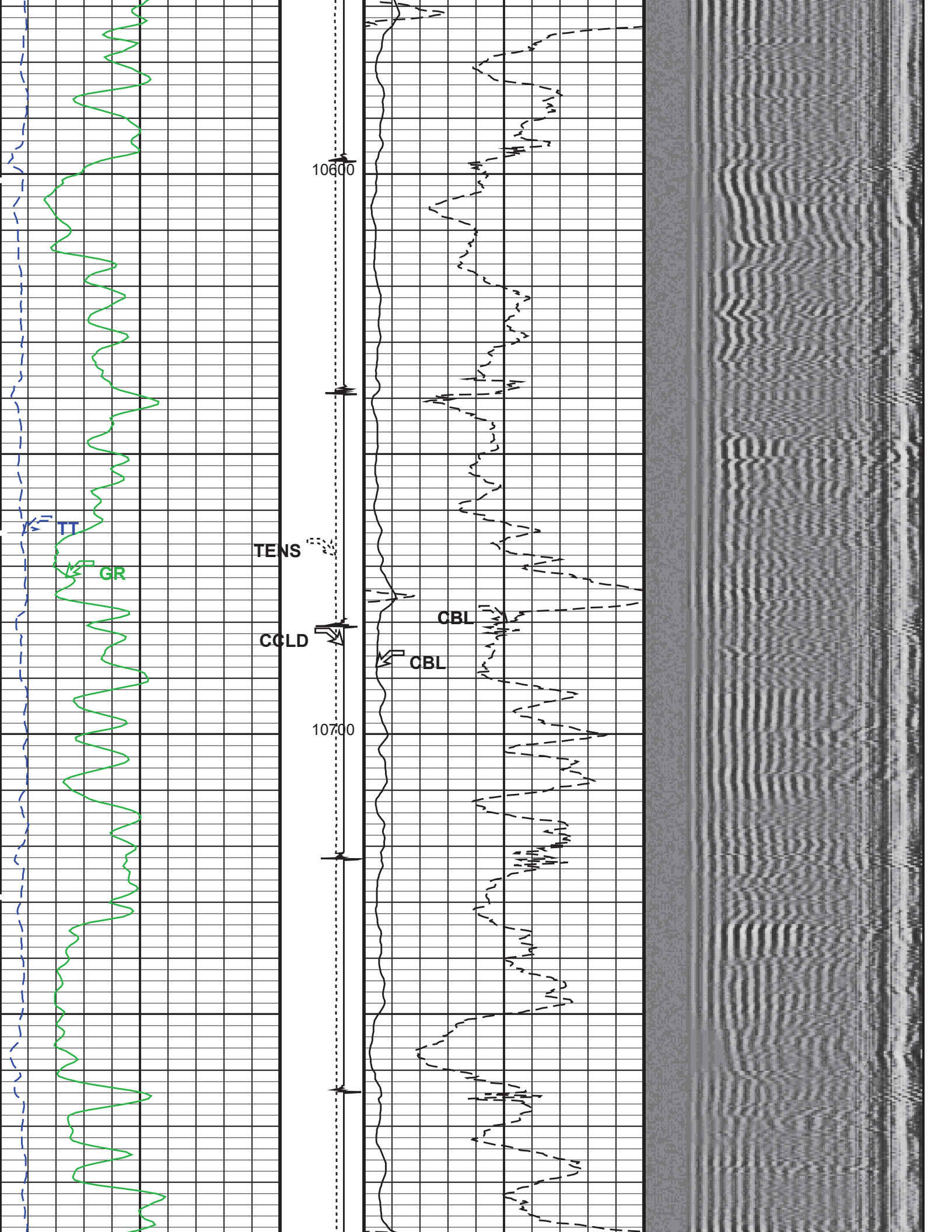


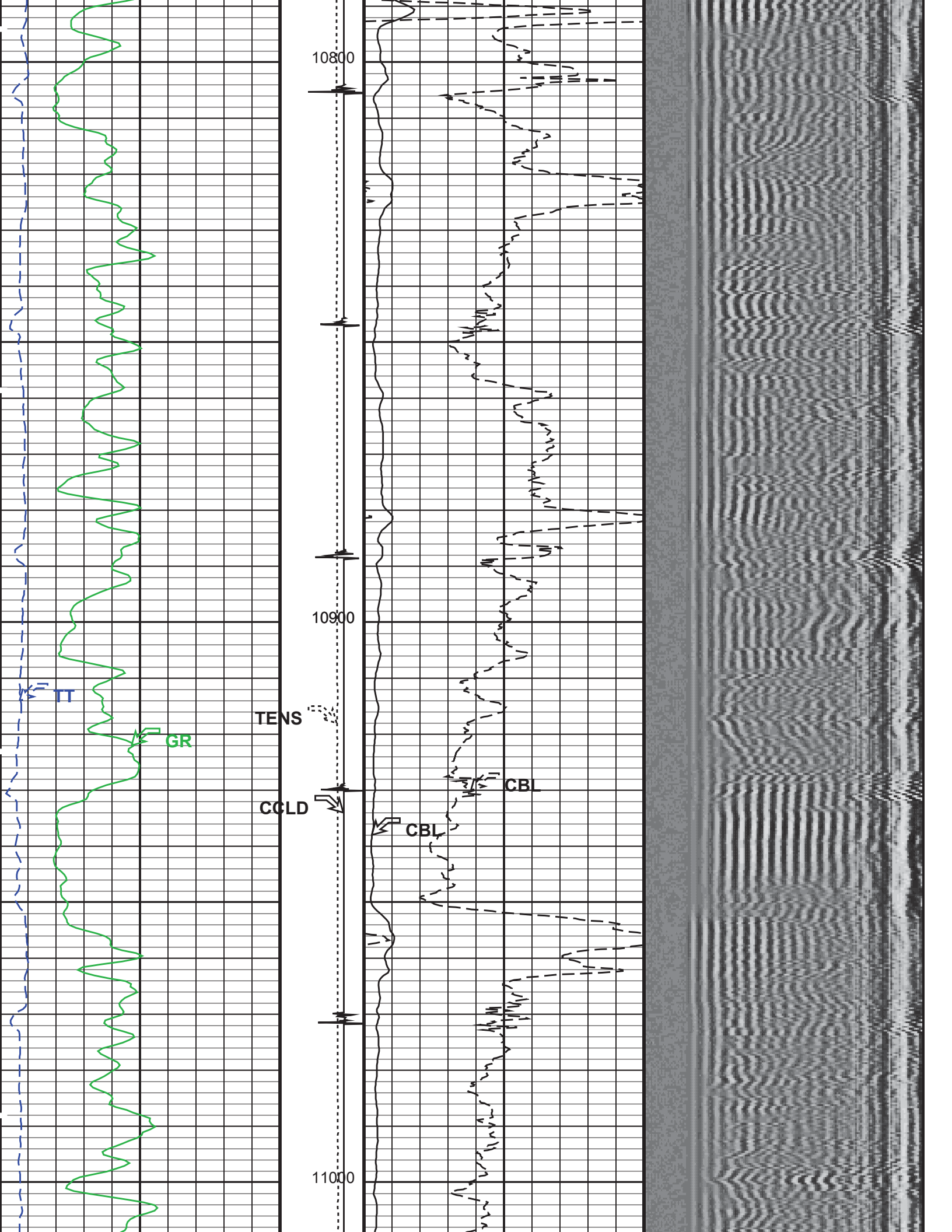


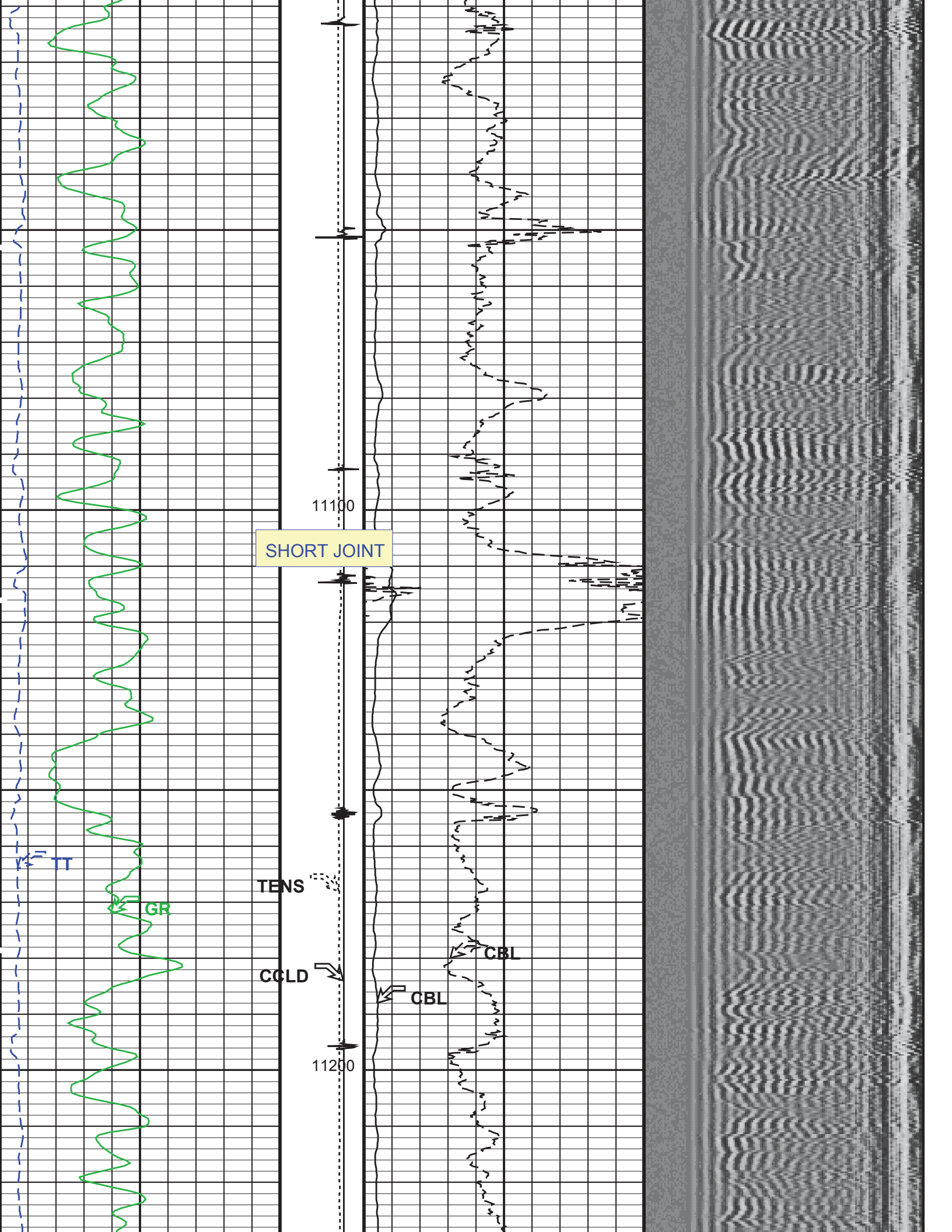


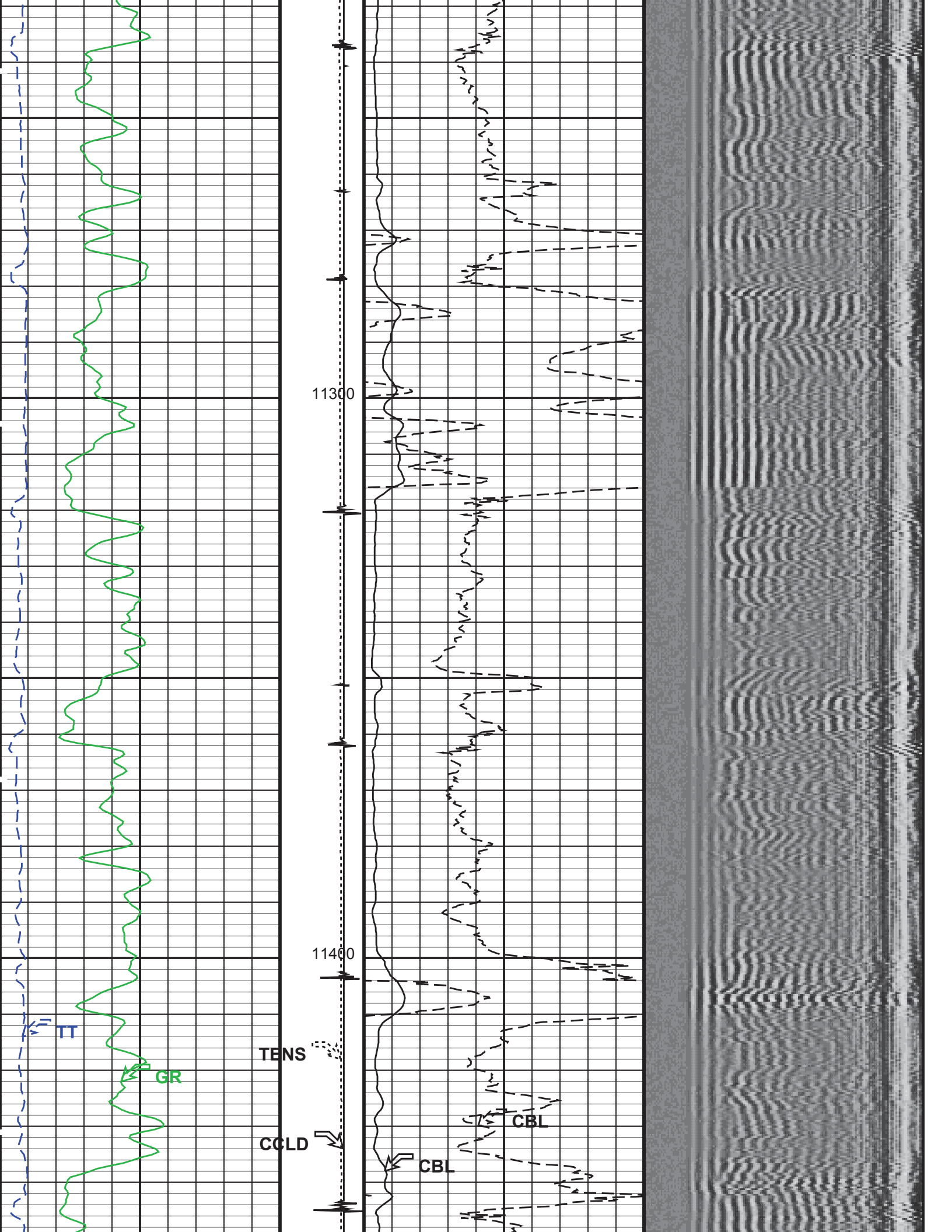


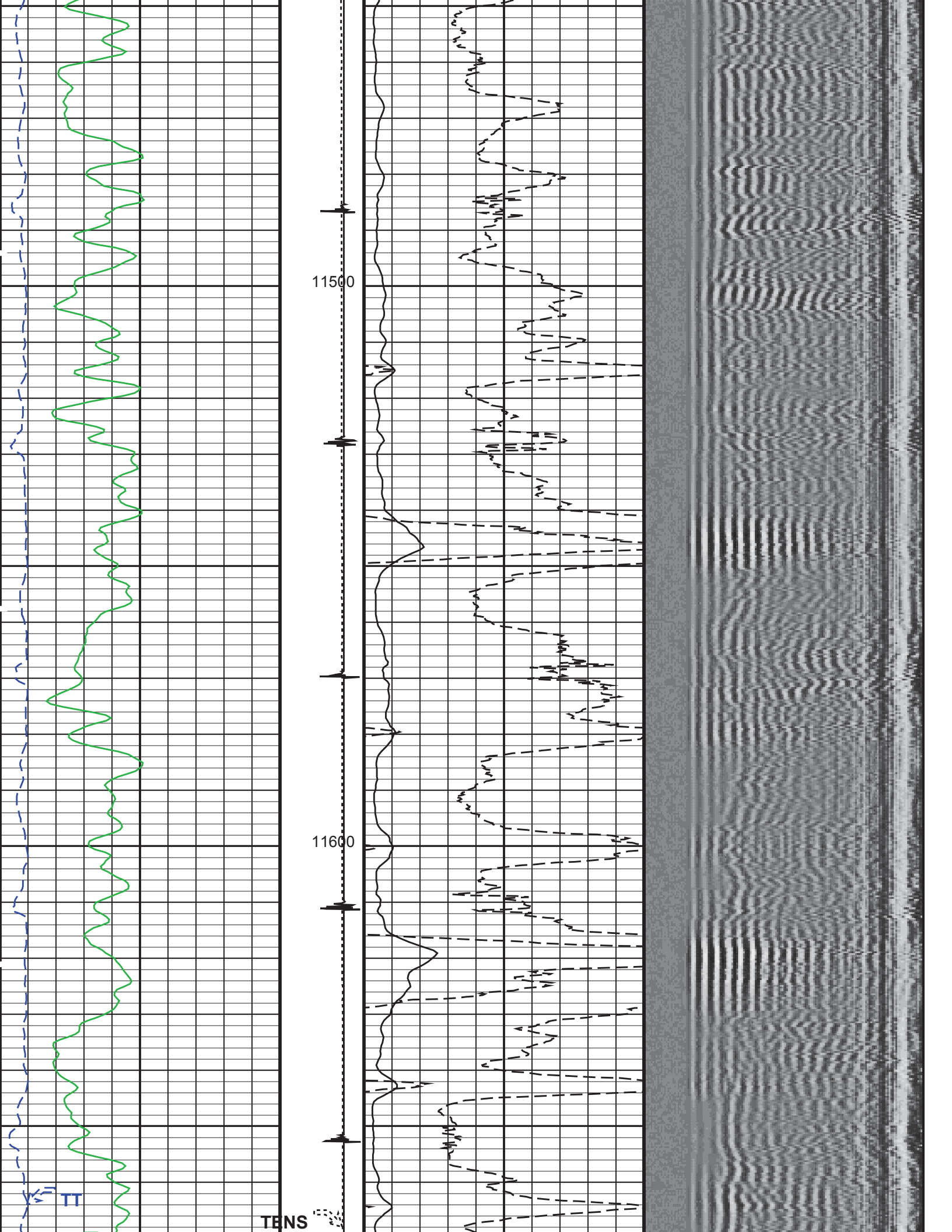


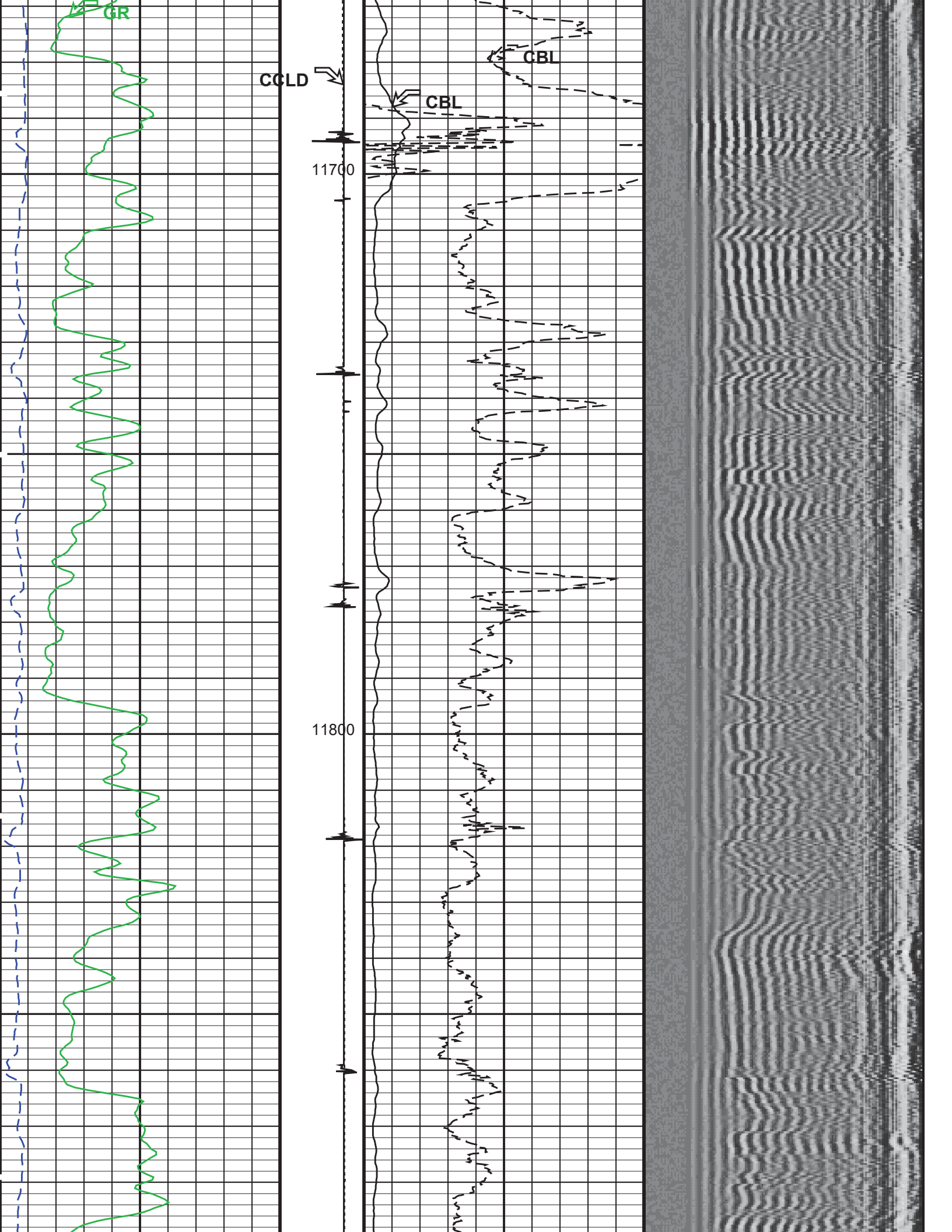


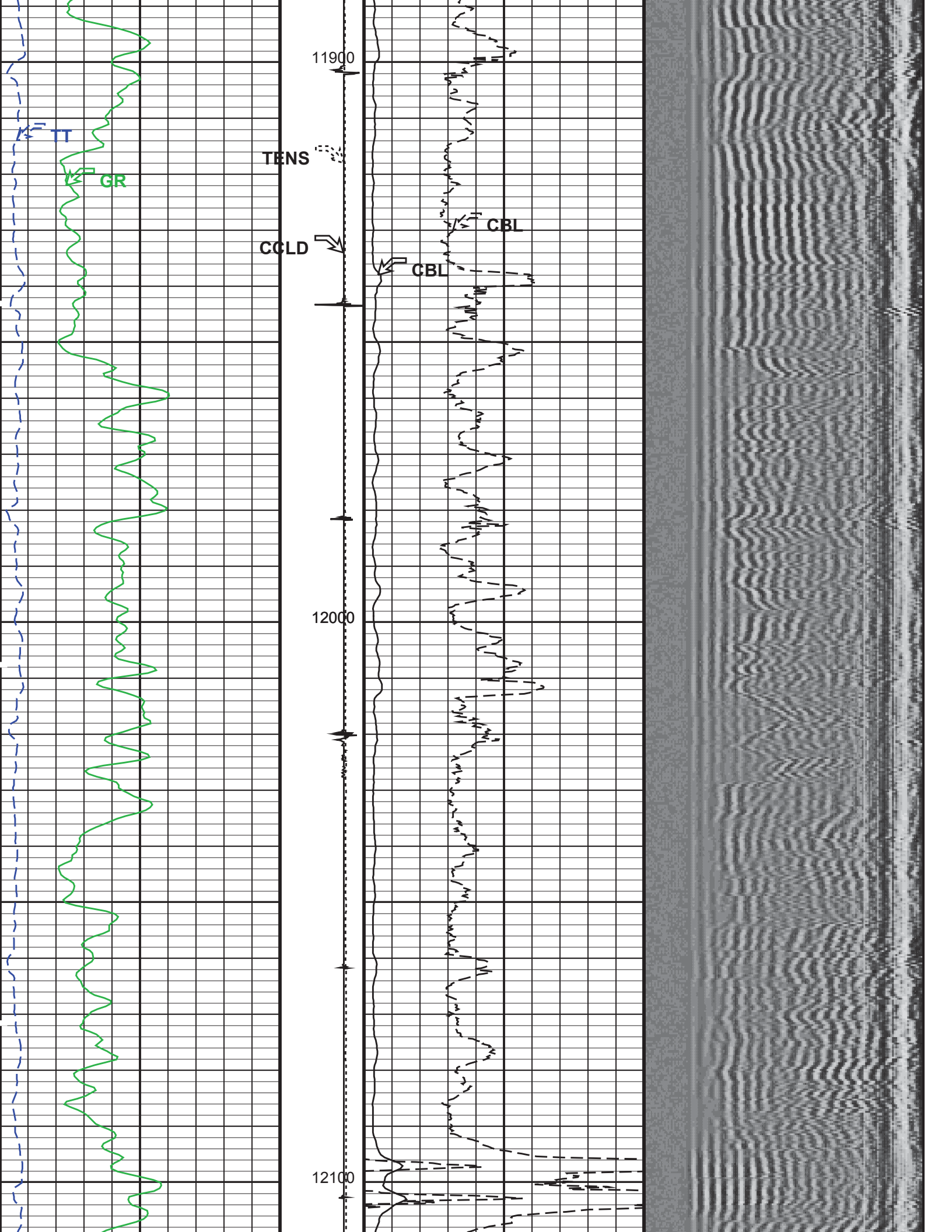


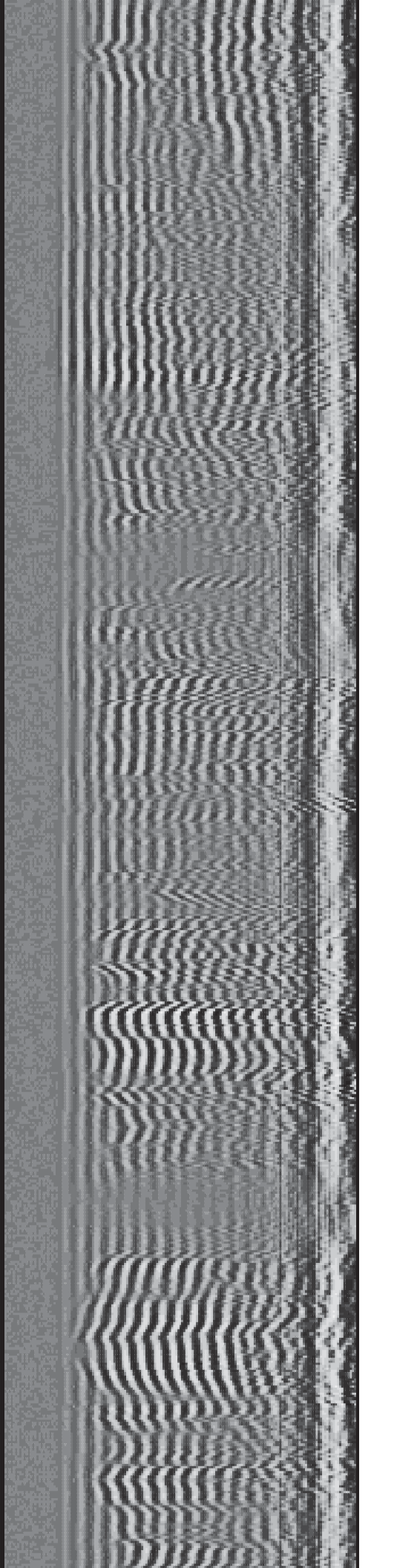
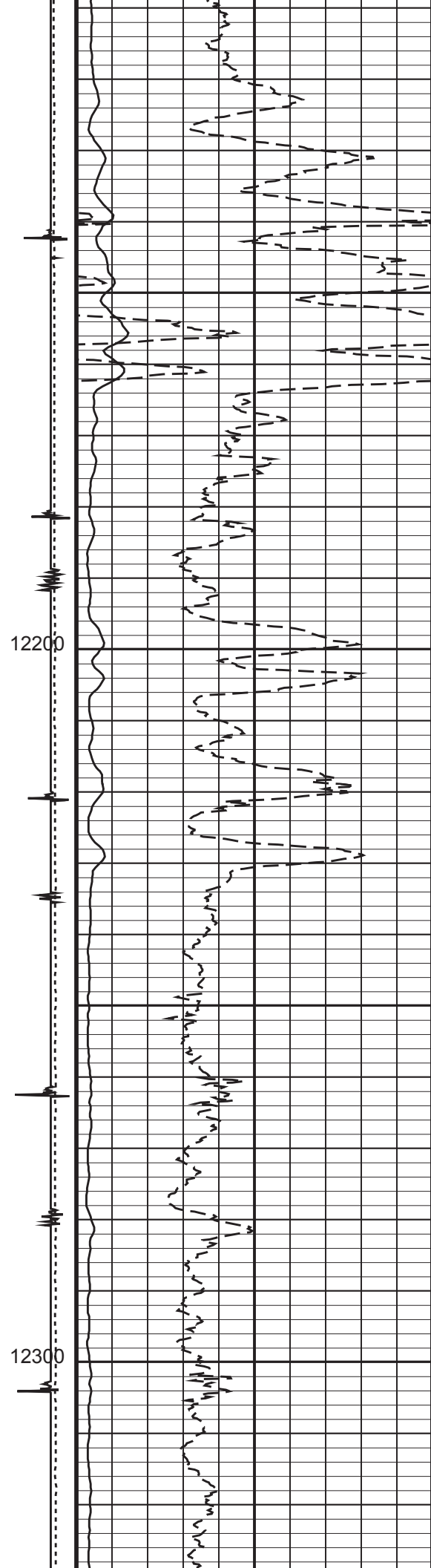
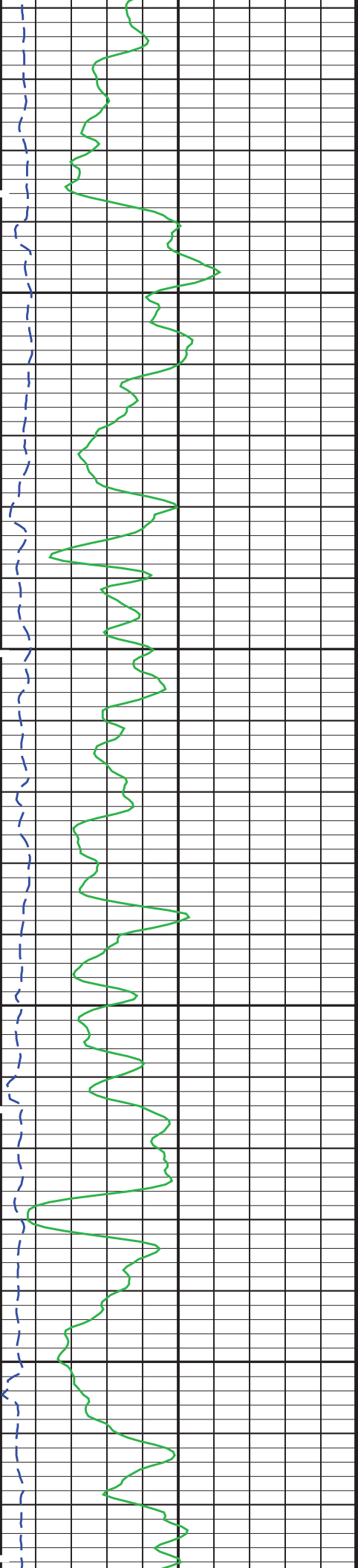


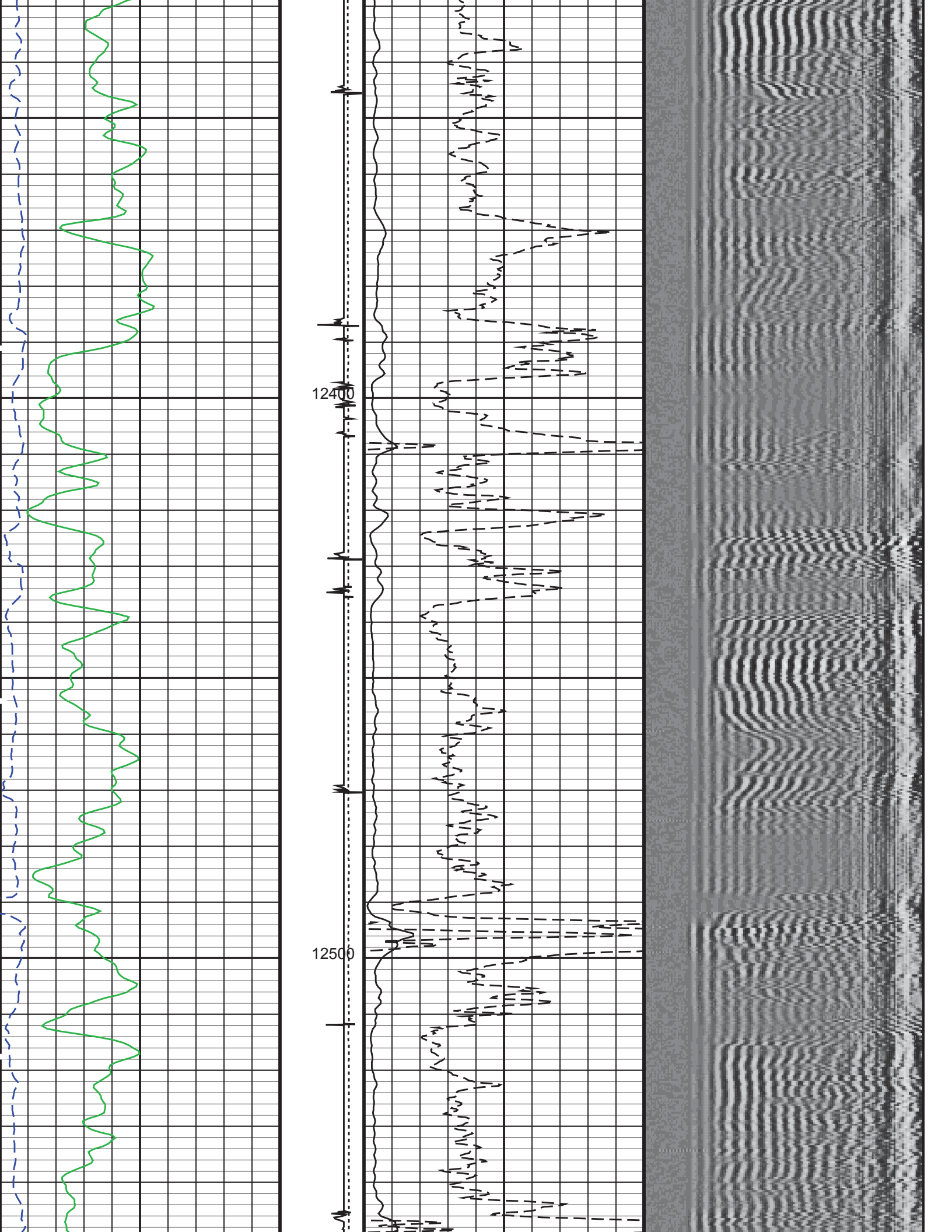








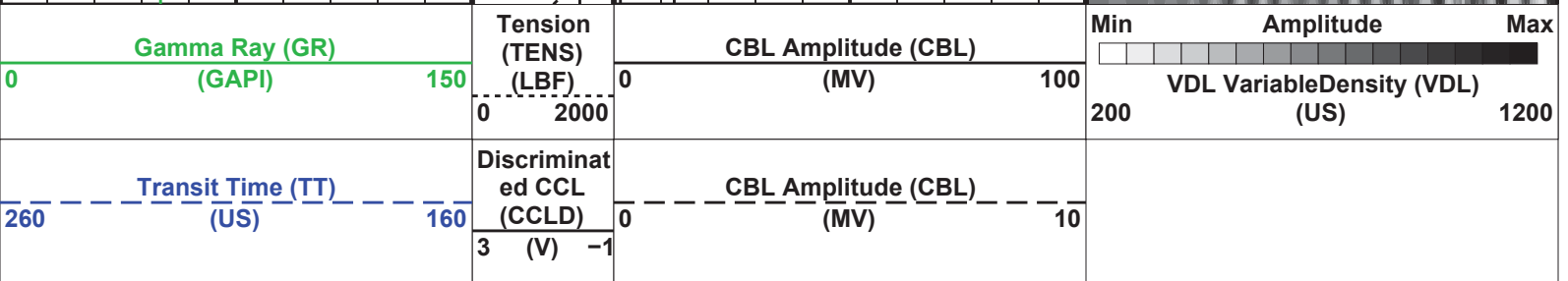




First Reading GR 12542 FT

First Reading CBL 12560 FT

Total Depth 12568 FT



PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100'

Graphics File Created: 18-Mar-2013 23:10

OP System Version: 19C0-187

SCMT-CB SRPC-5214-H2-2012-OP1 HBMS-B SRPC-5214-H2-2012-OP1

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8179		
Current Casing Size	4.50000 IN		
Casing Weight	13.5000 LB/F		
Expected CBL Amplitude in Free Pipe Section	81 MV	Minimum Sonic Amplitude	1.28673 MV (100% Cement) 2.94636 MV (80% Cement)
		MAP Minimum Sonic Amplitude	7.12449 MV (100% Cement) 12.0838 MV (80% Cement)
Master Calibration (Normalization)		Before Calibration (Adjustment)	
Date of Master Calibration	6-MAR-2012		
CBL Correction Factor	0.0704263	CBL Adjustment Factor (CBAF)	0.800000
MAP 1 Correction Factor	0.0993191	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.0941329		
MAP 3 Correction Factor	0.101552		
MAP 4 Correction Factor	0.114415		
MAP 5 Correction Factor	0.127992		
MAP 6 Correction Factor	0.121190		
MAP 7 Correction Factor	0.112867		
MAP 8 Correction Factor	0.102913		

Parameters

DLIS Name	Description	Value
	SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD	
BILI	Bond Index Level for Zone Isolation	0.8
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	223.206 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	337.206 US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20 MV
CBLG	CBL Gate Width	40 US
CBRA	CBL LQC Reference Amplitude in Free Pipe	81 MV
CMCE	CBL Cement Type Compensation Factor	1

CWCF	CBL Cement Type Compensation Factor	1	SCAN
CMTC	SCMT Slow Channel Multiplexer Mode		LOG
CMTM	SCMT Operating Mode		LOG
CSCS	SCMT Slow Channel Index		VCC
CTHI	Casing Thickness	0.300677	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	2.94636	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	166.206	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	14.0905	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	7.12449	MV
MSA	Minimum Sonic Amplitude	1.28673	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	13.50	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	12568	FT

Input DLIS Files

DEFAULT	SCMT_HBMS_018LUP	FN:17	PRODUCER	18-Mar-2013 19:41	12580.0 FT	38.0 FT
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Output DLIS Files

DEFAULT	SCMT_HBMS_020PUP	FN:19	PRODUCER	18-Mar-2013 23:10		
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REPEAT ANALYSIS CBL VDL

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC Well: SGU 8510C-23 (L24 496)

Input DLIS Files

DEFAULT	SCMT_HBMS_017LUP	FN:16	PRODUCER	18-Mar-2013 19:21	8429.5 FT	8120.0 FT
DEFAULT	SCMT_HBMS_020PUP	FN:19	PRODUCER	18-Mar-2013 23:10	12580.0 FT	6.5 FT

Output DLIS Files

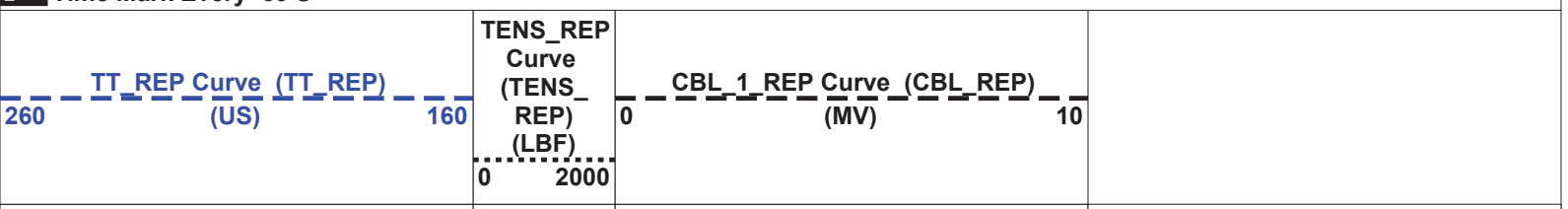
DEFAULT	SCMT_HBMS_021PUP	FN:20	PRODUCER	18-Mar-2013 23:19	8424.5 FT	8083.5 FT
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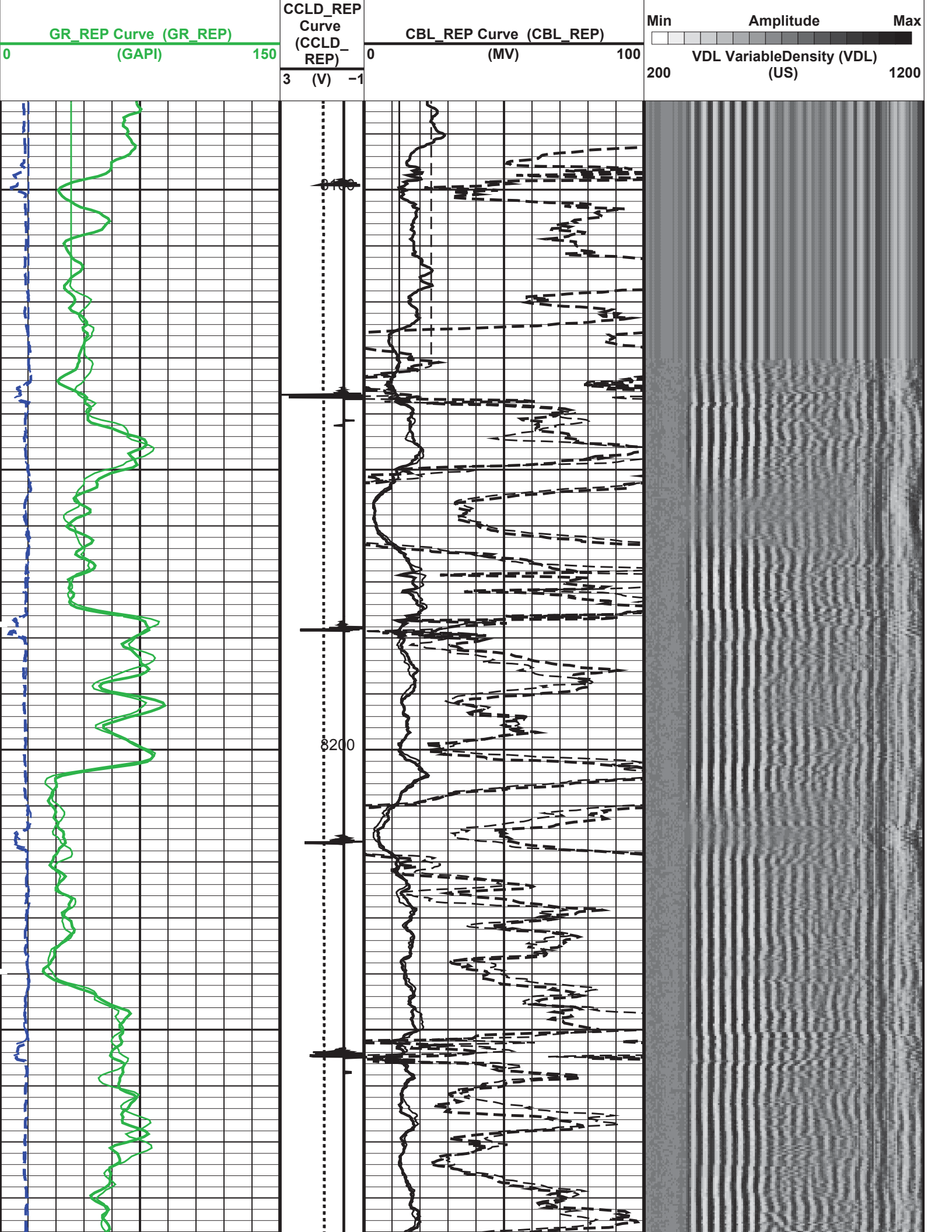
OP System Version: 19C0-187

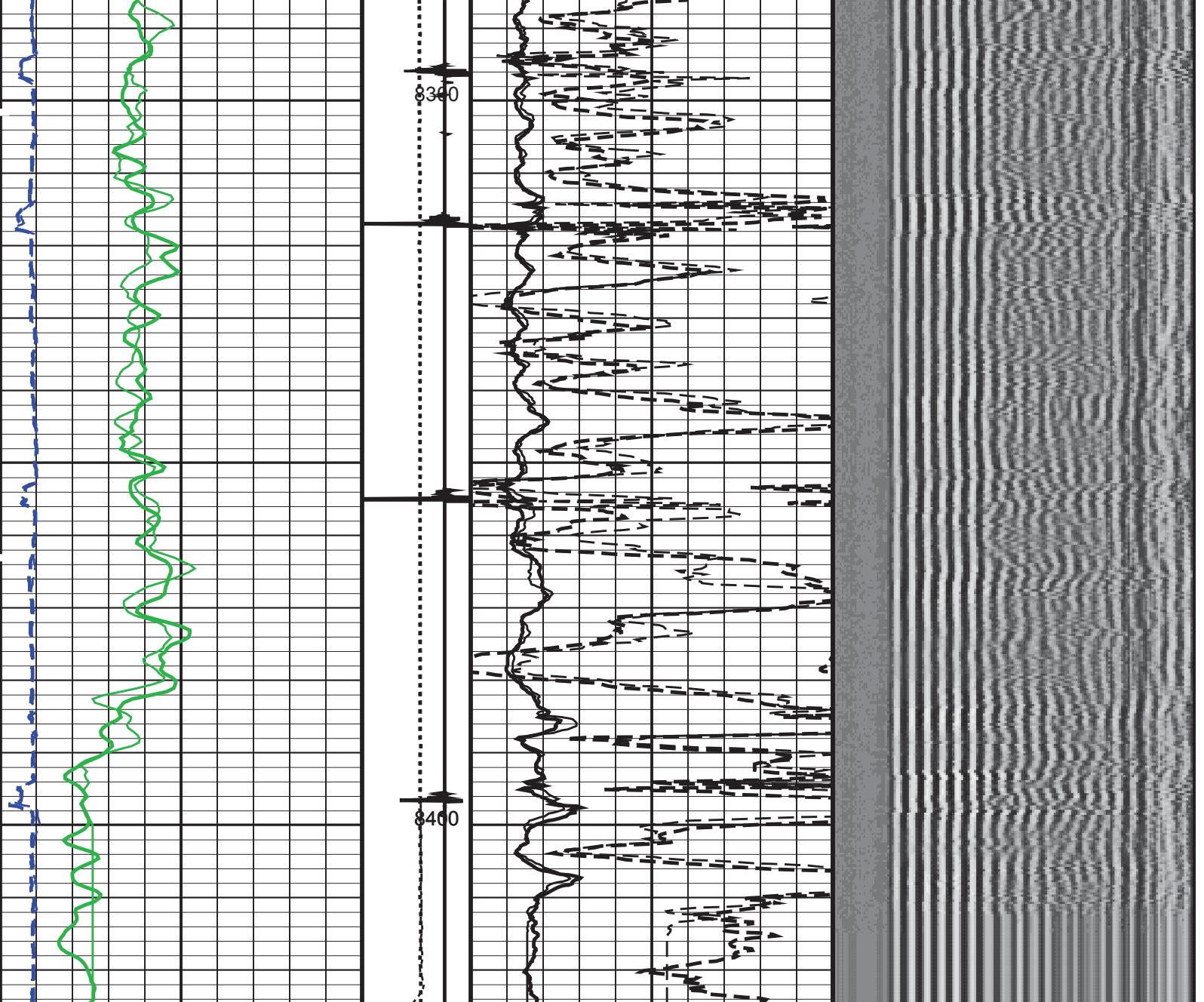
SCMT-CB SRPC-5214-H2-2012-OP1 HBMS-B SRPC-5214-H2-2012-OP1

PIP SUMMARY

Time Mark Every 60 S







<p>GR_REP Curve (GR_REP) (GAPI)</p> <p>0 150</p>	<p>CCLD_REP Curve (CCLD_REP)</p> <p>3 (V) -1</p>	<p>CBL_REP Curve (CBL_REP) (MV)</p> <p>0 100</p>	<p>Min Amplitude Max</p> <p>VDL Variable Density (VDL) (US)</p> <p>200 1200</p>
<p>TT_REP Curve (TT_REP) (US)</p> <p>260 160</p>	<p>TENS_REP Curve (TENS_REP) (LBF)</p> <p>0 2000</p>	<p>CBL_1_REP Curve (CBL_REP) (MV)</p> <p>0 10</p>	

PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL_REP Vertical Scale: 5" per 100'

Graphics File Created: 18-Mar-2013 23:19

OP System Version: 19C0-187

SCMT-CB SRPC-5214-H2-2012-OP1; HBMS-B SRPC-5214-H2-2012-OP1;

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number SCMS-CB 8179

Current Casing Size	4.50000 IN		
Casing Weight	13.5000 LB/F		
Expected CBL Amplitude in Free Pipe Section	81 MV	Minimum Sonic Amplitude	1.28673 MV (100% Cement) 2.94636 MV (80% Cement)
		MAP Minimum Sonic Amplitude	7.12449 MV (100% Cement) 12.0838 MV (80% Cement)

Master Calibration (Normalization)		Before Calibration (Adjustment)	
Date of Master Calibration	6-MAR-2012		
CBL Correction Factor	0.0704263	CBL Adjustment Factor (CBAF)	0.800000
MAP 1 Correction Factor	0.0993191	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.0941329		
MAP 3 Correction Factor	0.101552		
MAP 4 Correction Factor	0.114415		
MAP 5 Correction Factor	0.127992		
MAP 6 Correction Factor	0.121190		
MAP 7 Correction Factor	0.112867		
MAP 8 Correction Factor	0.102913		

Parameters

DLIS Name	Description	Value	
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	223.206	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	337.206	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	81	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.300677	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	2.94636	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	166.206	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	14.0905	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	7.12449	MV
MSA	Minimum Sonic Amplitude	1.28673	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	13.500	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	-5.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	12568	FT

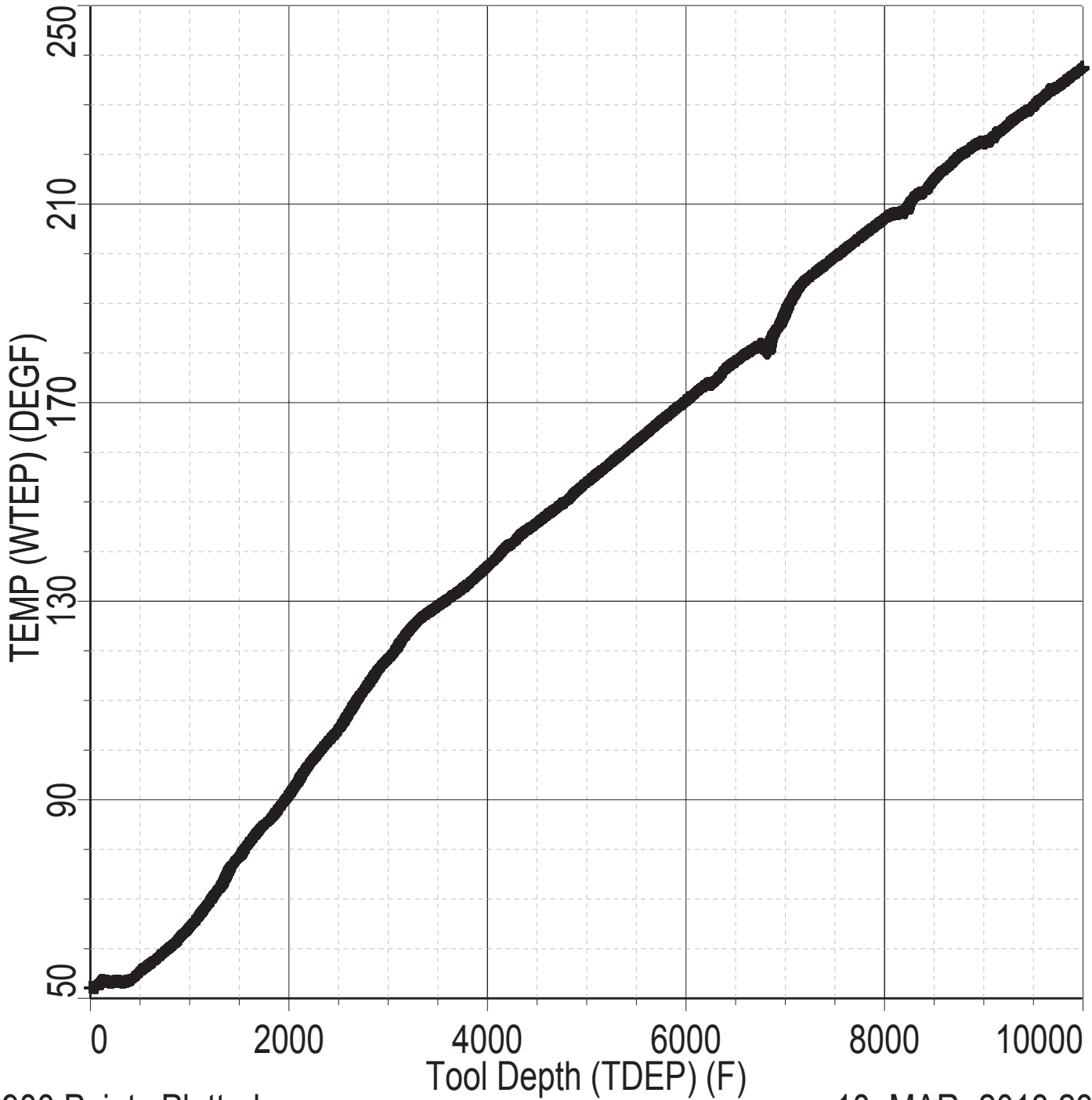
Input DLIS Files

DEFAULT	SCMT_HBMS_017LUP	FN:16	PRODUCER	18-Mar-2013 19:21	8429.5 FT	8120.0 FT
DEFAULT	SCMT_HBMS_020PUP	FN:19	PRODUCER	18-Mar-2013 23:10	12580.0 FT	6.5 FT

Output DLIS Files

DEFAULT	SCMT_HBMS_021PUP	FN:20	PRODUCER	18-Mar-2013 23:19		
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Index: 12580.0 - 6.5 FT



19988 Points Plotted

18-MAR-2013 23:18

MAXIS Field Log

Client: ENCANA OIL & GAS (USA) INC
 Field: STORY GULCH
 Well: SGU 8510C-23 (L24 496)
 Run date: 18-Mar-2013

Tool: PSP
 Sub Type: PBMS
 Sensor: GR

PBMS Gamma Ray

Sonde Serial NB RESISTORS FOR GR SENSOR N.34473, TOOL HBMS-BA2884. SENSOR S/N:
 Sensor Serial NB 34473
 Calib Date ddmmyy 090506
 Matrix Size 12
 Coeff CRC 0708

GR HV Rt

Rt**0

Rt**1

Rt**0

+.200000000000e+04

+.190000000000e+04

Client: ENCANA OIL & GAS (USA) INC
 Field: STORY GULCH
 Well: SGU 8510C-23 (L24 496)
 Run date: 18-Mar-2013

Tool: PSP
 Sub Type: PBMS
 Sensor: WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB COEFFICIENTS FOR RTD THERMOMETER PBMS-B.2884 S/N:
 Sensor Serial NB 2884
 Calib Date ddmmyy 290706
 Matrix Size 16
 Coeff CRC B134

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	-.111322977181E+04	+.870150832462E+03	-.279503665762E+03
	Tt**3	Tt**4	Tt**5
Tt**0	+.449965652060E+02	-.264920434334E+01	0.0

Client: ENCANA OIL & GAS (USA) INC
 Field: STORY GULCH
 Well: SGU 8510C-23 (L24 496)
 Run date: 18-Mar-2013

Tool: PSP
 Sub Type: PBMS
 Sensor: CQG

PBMS Quartz Gauge type F

Sonde Serial NB COEFFICIENTS FOR CQG PBMS-B.2884 S/N:
 Sensor Serial NB 2884
 Calib Date ddmmyy 290706
 Matrix Size 66
 Coeff CRC CA7A

Pres Coeff

	Fb**0	Fb**1	Fb**2
Fc**0	+.746225778248E+04	+.221418944849E-01	-.210426289152E-06
Fc**1	-.104881478055E+01	-.124860716120E-04	-.949662972749E-10
Fc**2	+.872904863754E-06	+.426833452654E-10	+.759423319181E-15
Fc**3	+.239319347612E-11	+.290279345385E-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	-.812091932516E-10	-.147717591127E-14	-.150620854654E-19
Fc**1	+.145644303959E-15	+.160803895109E-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 2884
 Calib Date ddmmyy 290706
 Matrix Size 66
 Coeff CRC F21E

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+ .113897507996E+03	- .324965333678E-03	+ .697134219555E-08
Fb**1	- .601014483015E-02	+ .175847256148E-07	+ .180458009797E-12
Fb**2	- .317240807344E-07	+ .374112953741E-12	+ .133653042149E-17
Fb**3	- .236568542854E-12	+ .787205826536E-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	+ .881675188724E-13	- .146952444192E-16	- .415359060767E-21
Fb**1	- .553774805449E-18	- .739378844697E-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 2884
 Calib Date ddmmyy 290706
 Matrix Size 16
 Coeff CRC 72C9

Clock Freq Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+ .310161623072E+05	+ .363878692519E-02	+ .311171630292E-06
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	- .277965051815E-10	- .181738305366E-14	- .633170122188E-20

Sonde Serial NB :
 Sensor Serial NB 2884
 Calib Date ddmmyy 290706
 Matrix Size 16
 Coeff CRC 3E80

Clock Temp Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+ .111177101155E+03	- .545261137223E-02	- .112186276799E-06
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	+ .756690675632E-11	- .207457772298E-16	- .121623071907E-19



MASTER CALIBRATION

MAXIS Field Log

Slim Cement Mapping Tool, 1-11/16 OD / Equipment Identification

Primary Equipment:

Slim Cement Mapping Xmitter Electronics	SCMX - CA	
Slim Cement Mapping Sonde	SCMS - CB	8179
Slim Cement Mapping Cartridge	SCMC - CA	8120

Auxiliary Equipment:

Slim Electronics Cartridge Housing	SECH - CA	
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Slim Cement Mapping Tool, 1-11/16 OD Master Calibration					
SCMT CBL and MAP Amplitude Normalization in SFT-155/-255					
Phase	MAP 1 Amplitude Plus MV	Value	Phase	MAP 2 Amplitude Plus MV	Value
Master		1158	Master		1232
	500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)			500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)	
Phase	MAP 3 Amplitude Plus MV	Value	Phase	MAP 4 Amplitude Plus MV	Value
Master		1237	Master		1118
	500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)			500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)	
Phase	MAP 5 Amplitude Plus MV	Value	Phase	MAP 6 Amplitude Plus MV	Value
Master		1061	Master		1299
	500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)			500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)	
Phase	MAP 7 Amplitude Plus MV	Value	Phase	MAP 8 Amplitude Plus MV	Value
Master		1258	Master		1267
	500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)			500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)	
Phase	CBL Amplitude Plus MV	Value			
Master		1351			
	1000 (Minimum) 1350 (Nominal) 1700 (Maximum)				

Company: **ENCANA OIL & GAS (USA) INC**

Schlumberger

Well: **SGU 8510C-23 (L24 496)**

Field: **STORY GULCH**

County: **GARFIELD**

State: **COLORADO**

SLIM CEMENT MAPPING LOG
GAMMA RAY - CCL - TEMPERATUR
CBL - VDL