

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8502C-23 (L24 496)

Field: STORY GULCH

County: GARFIELD

State: COLORADO

SLIM CEMENT MAPPING LOG
GAMMA RAY – CCL – TEMPERATUR

County: GARFIELD	
Field: STORY GULCH	
Location:	
Well: SG 8502C-23 (L24 496)	
Company: ENCANA OIL & GAS (USA) INC	
LOCATION	
Elev.: K.B. 8210.00 ft G.L. 8180.00 ft D.F. 8209.00 ft	
Permanent Datum: _____ Log Measured From: KELLY BUSHING Drilling Measured From: KELLY BUSHING	Elev.: 8180.00 ft 30.00 ft above Perm. Datum
API Serial No. 05-045-21710-000C	Section 23 Township 4S Range 96W

	Run 1	Run 2	Run 3
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		3-Jan-2014	
Run Number	1		
Depth Driller	13397 ft		
Schlumberger Depth	13389 ft		
Bottom Log Interval	13380 ft		
Top Log Interval	80 ft		
Casing Fluid Type	FRESH WATER		
Salinity			
Density	8.4 lbm/gal		
Fluid Level	80 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.750 in		
From	30 ft		
To	13397 ft		
Casing/Tubing Size	4.500 in		
Weight	11.6 lbm/ft		
Grade			
From	30 ft		
To	13397 ft		
Maximum Recorded Temperatures	292 degF		
Logger On Bottom	3-Jan-2014	22:00	
Unit Number	391	GRAND JUNCTION	
Recorded By	JASON BARRY		
Witnessed By	EMILIO RIVERA		

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: 14-AUG-2013 11:54:57

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-JB	Type:	CMTD-B/A	Type:	1-25ZT
Serial Number:	6349	Serial Number:	3421	Serial Number:	112136
Calibration Date:	7-31-2013	Calibration Date:	14-AUG-201	Length:	19000 FT
Calibrator Serial Number:		Calibrator Serial Number:	174878	<div>Conveyance Method: Wireline</div> <div>Rig Type: LAND</div>	
Calibration Cable Type:	1-25ZT	Number of Calibration Points:	10		
Wheel Correction 1:	-5	Calibration RMS:	3		
Wheel Correction 2:	-4	Calibration Peak Error:	8		

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 PROCEDURES USED
2. IDW USED AS PRIMARY DEPTH REFERENCE
3. SPWT DRUM COUNTER USED AS SECONDARY DEPTH REFERENCE
- 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 OS1: RESERVOIR SATURATION OS2: LOG OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FIRST RUN IN HOLE CORRELATED TO DOWNLOG	
TOOL RAN AS PER TOOL SKETCH	
ENTRANCE: 20:45	
TIME AT BOTTOM: 22:00	
EXIT: 1:30	

MAX RECORDED TEMPERATURE: 292 DEGF	
MAX RECORDED PRESSURE: 5198 PSIA	
SHORT JOINTS: 11939 FT & 8896 FT	
MAIN PASS LOGGED UNDER 0 SURFACE PRESSURE	
EXPECTED CBL AMP IN FREE PIPE = 80 MV	
CREW: JBARRY, BCUPP, SKRAMER, KJOHNS, JMANN	
THANK YOU FOR CHOOSING E&P WIRELINE, A SCHLUMBERGER COMPANY	

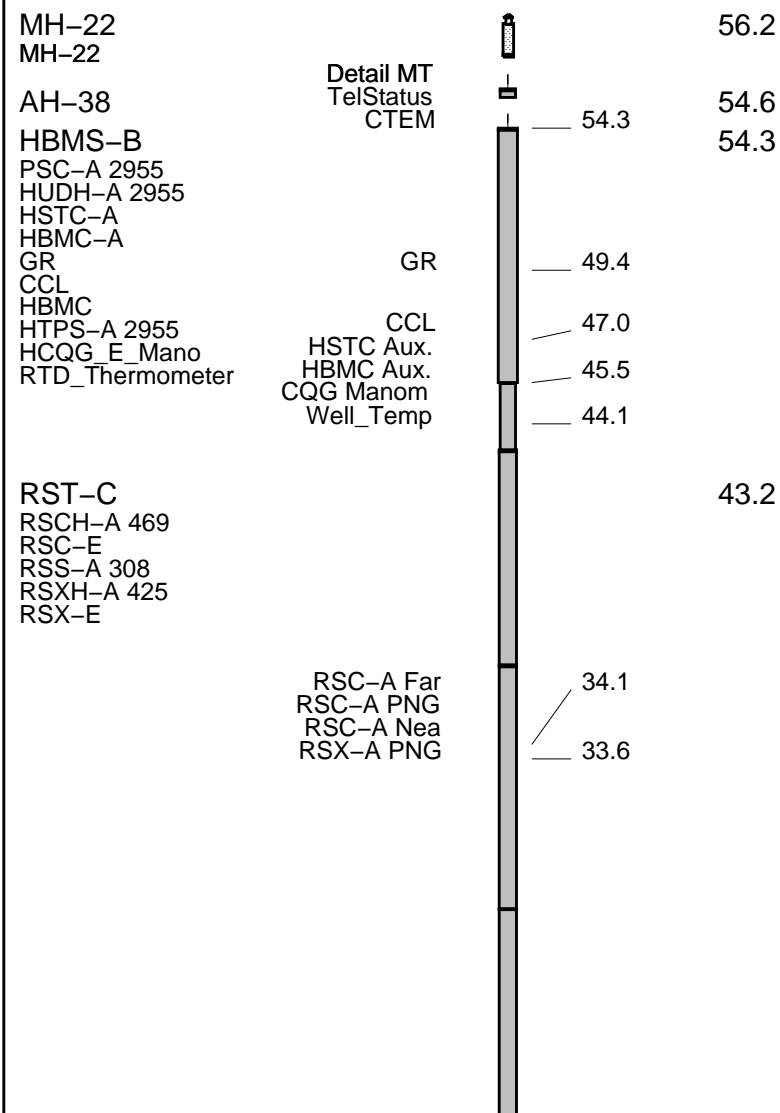
RUN 1 SERVICE ORDER #: CT1E-00032 PROGRAM VERSION: 19C0-187 FLUID LEVEL: 80 ft			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT	DESCRIPTION

	RUN 1	RUN 2
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
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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91	1	1
92	1	1
93	1	1
94	1	1
95	1	1
96	1	1
97	1	1
98	1	1
99	1	1
100	1	1

SURFACE EQUIPMENT		
WITM-A		
PSC_16MHZ		

DOWNHOLE EQUIPMENT



SCMT-CB
SCMC-CA 8164
SECH-CA
CMIR-AG
SCMS-CB 8317
SCMX-CA

20.2

DT 11.1
CBL5 DTSC 9.6
CBL3 8.6
MAP 8.1
AUX 7.1

AH-BNS

HV
Tension SCMT 0.0
TOOL ZERO

0.2

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



MAIN PASS CBL VDL

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC Well: SG 8502C-23 (L24 496)

Input DLIS Files

DEFAULT	SCMT_RST_HBMS_040LUP	FN:39	PRODUCER	03-Jan-2014 21:58	13394.5 FT	-6.0 FT
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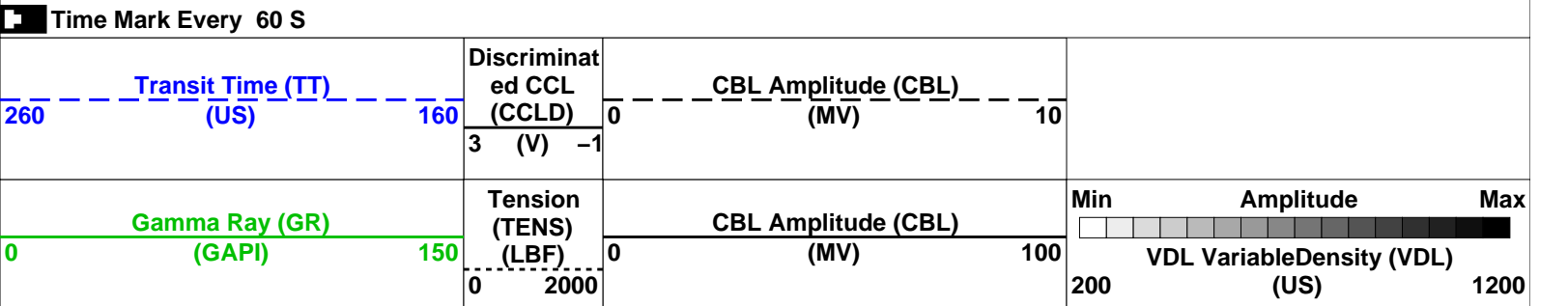
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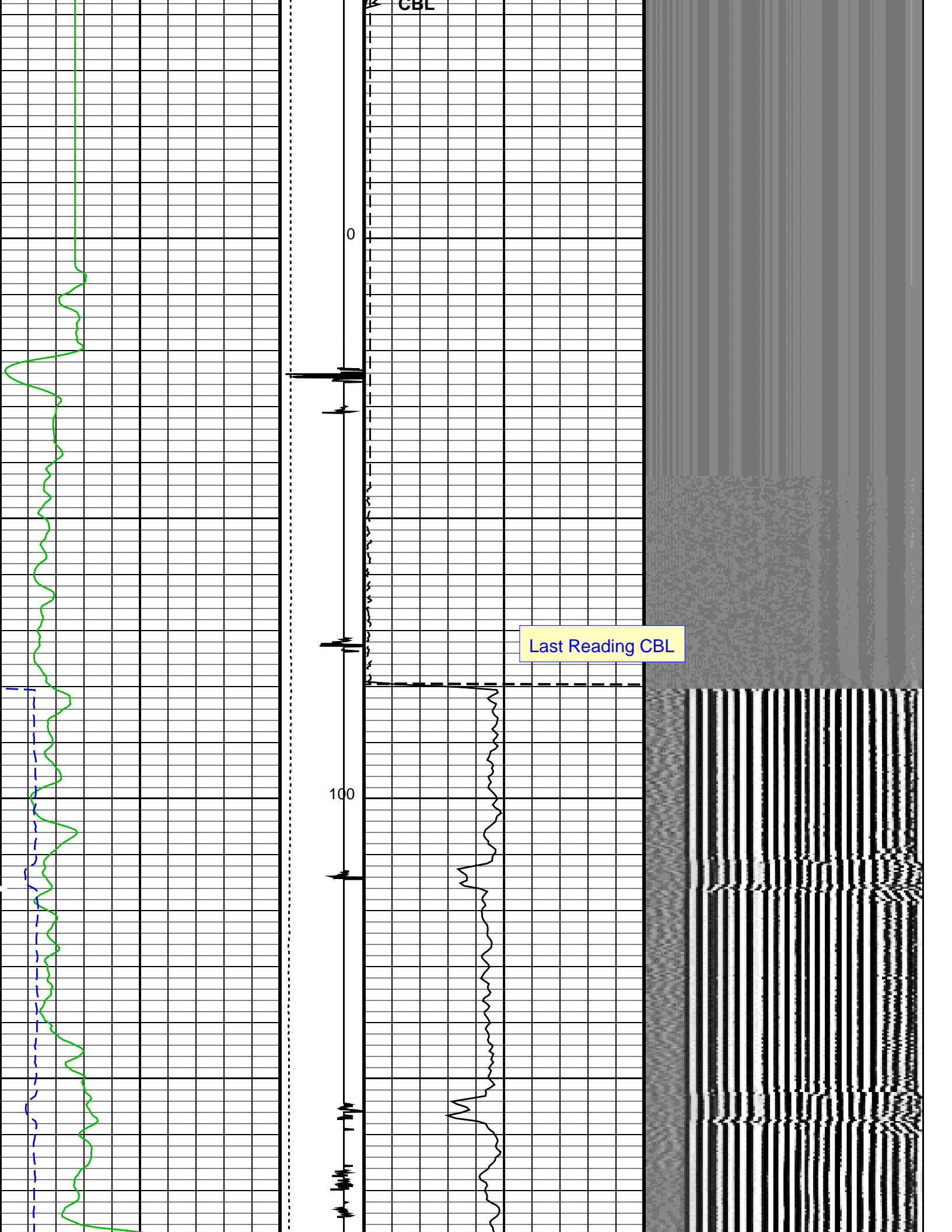
DEFAULT	SCMT_RST_HBMS_051PUP	FN:50	PRODUCER	04-Jan-2014 01:35	13404.5 FT	-43.5 FT
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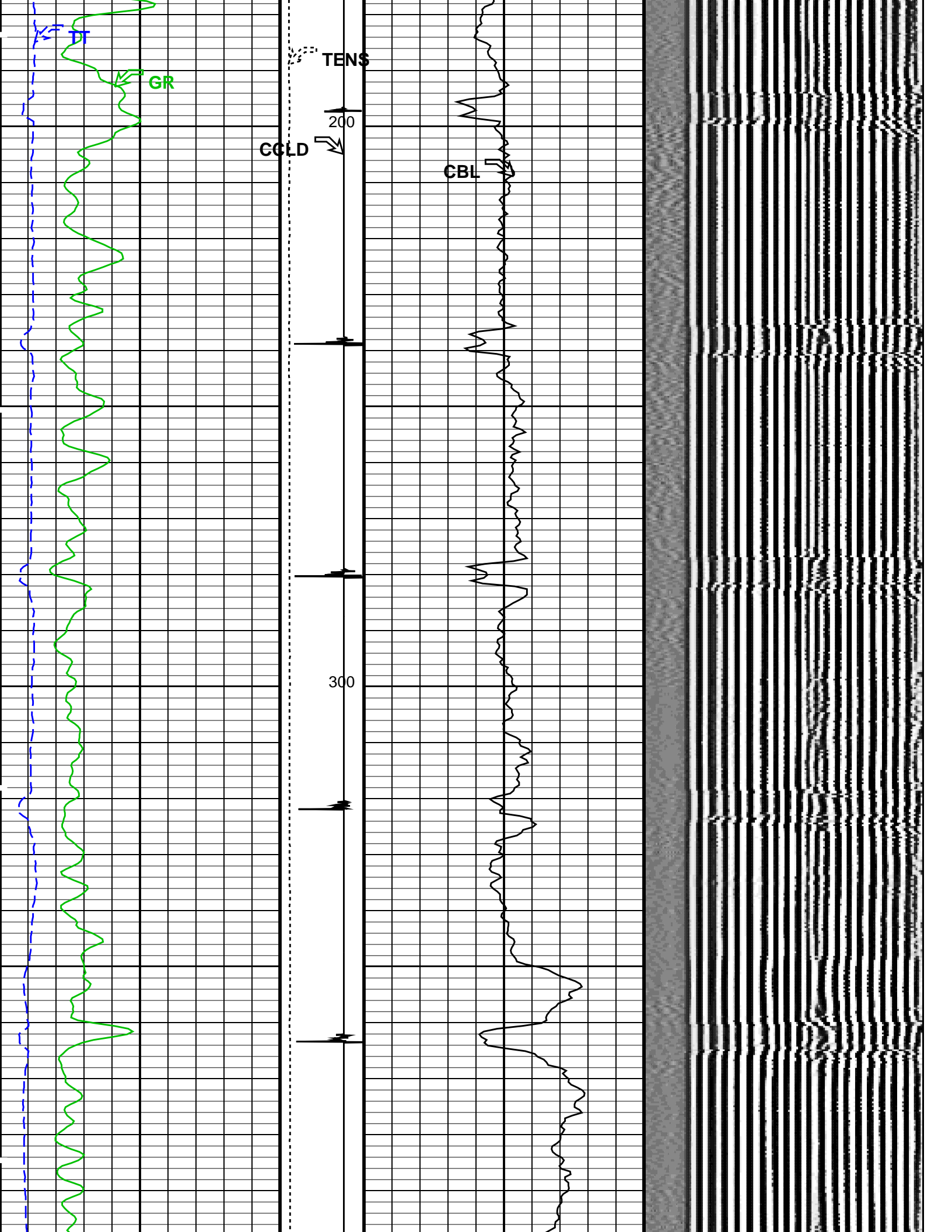
OP System Version: 19C0-187

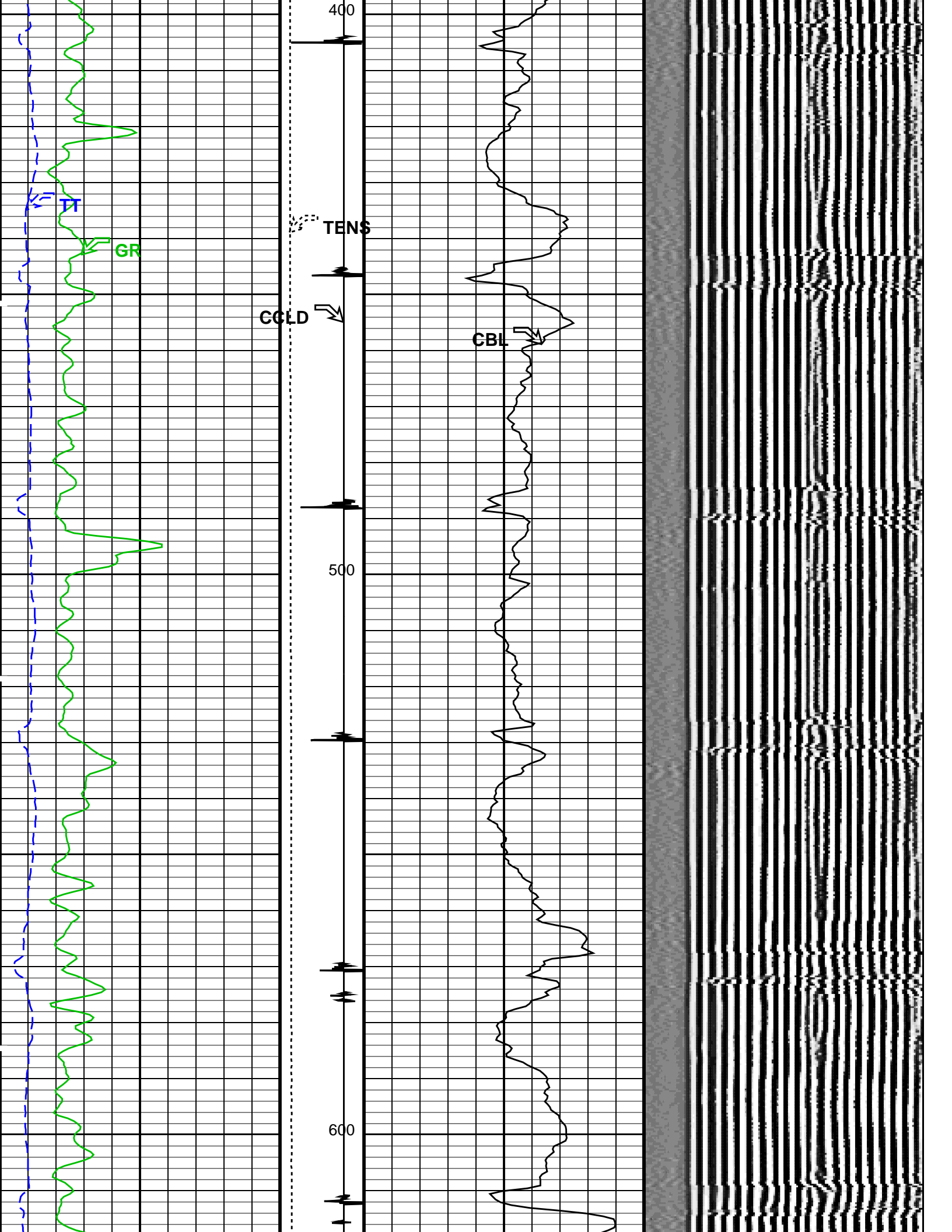
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HBMS-B	19C0-187		

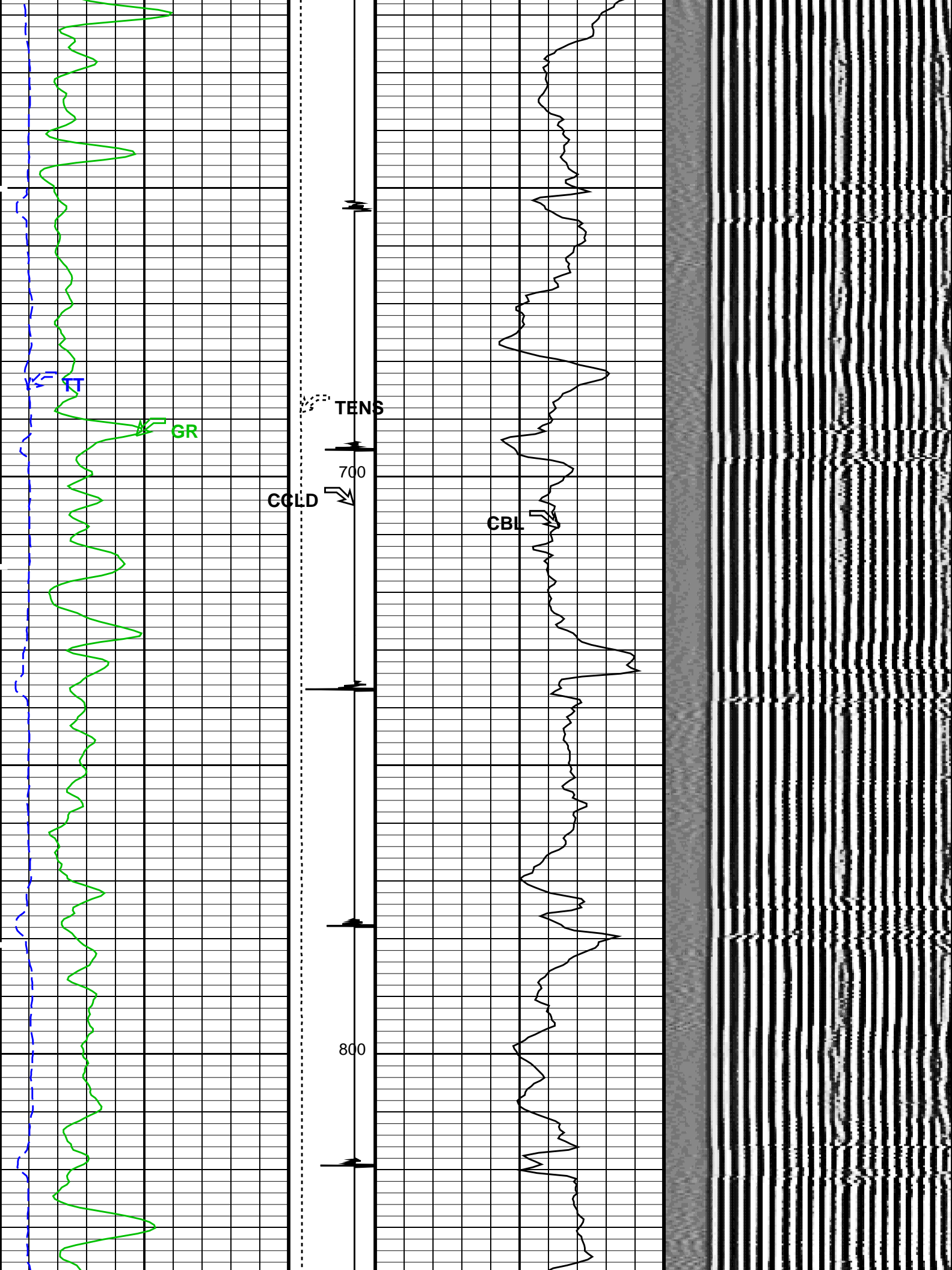
PIP SUMMARY

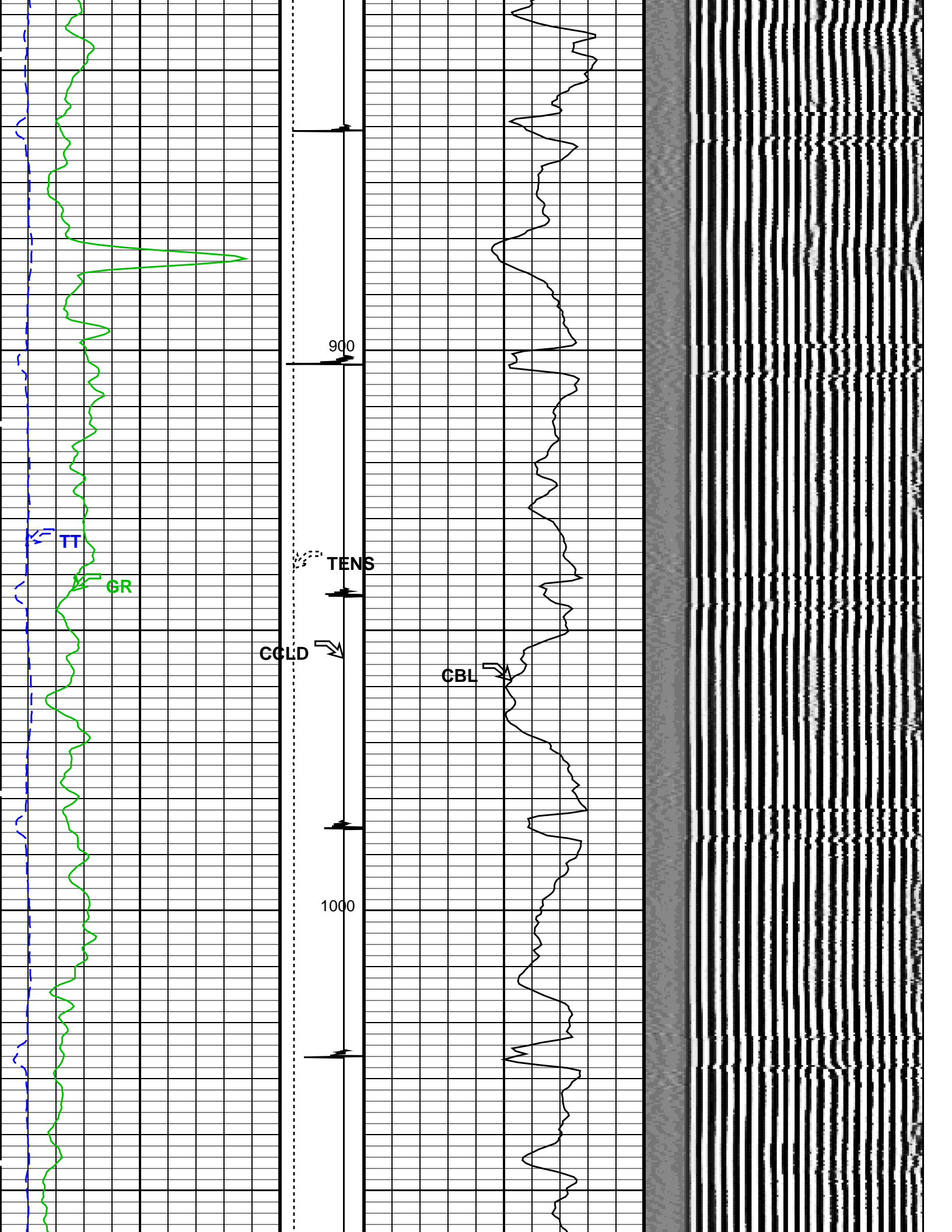


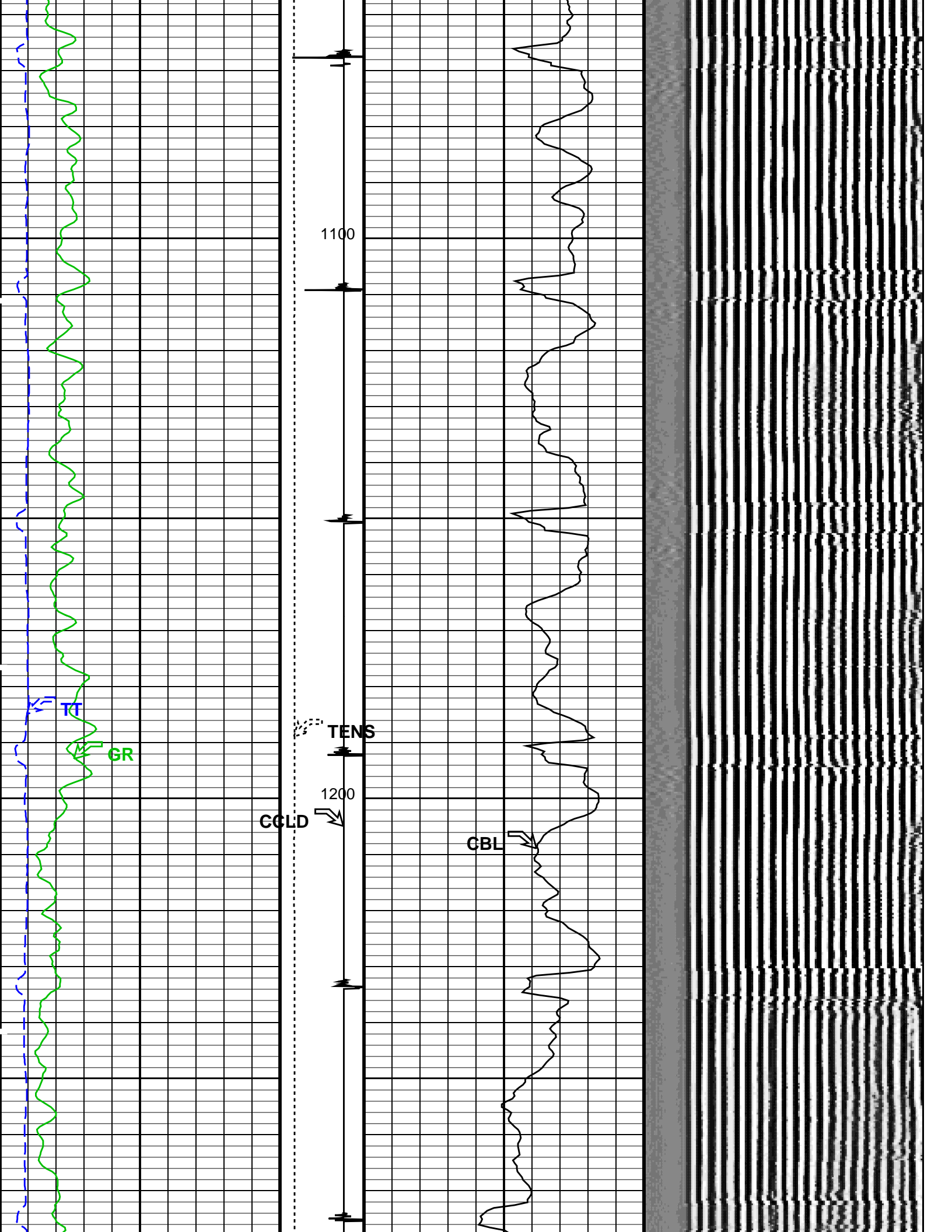


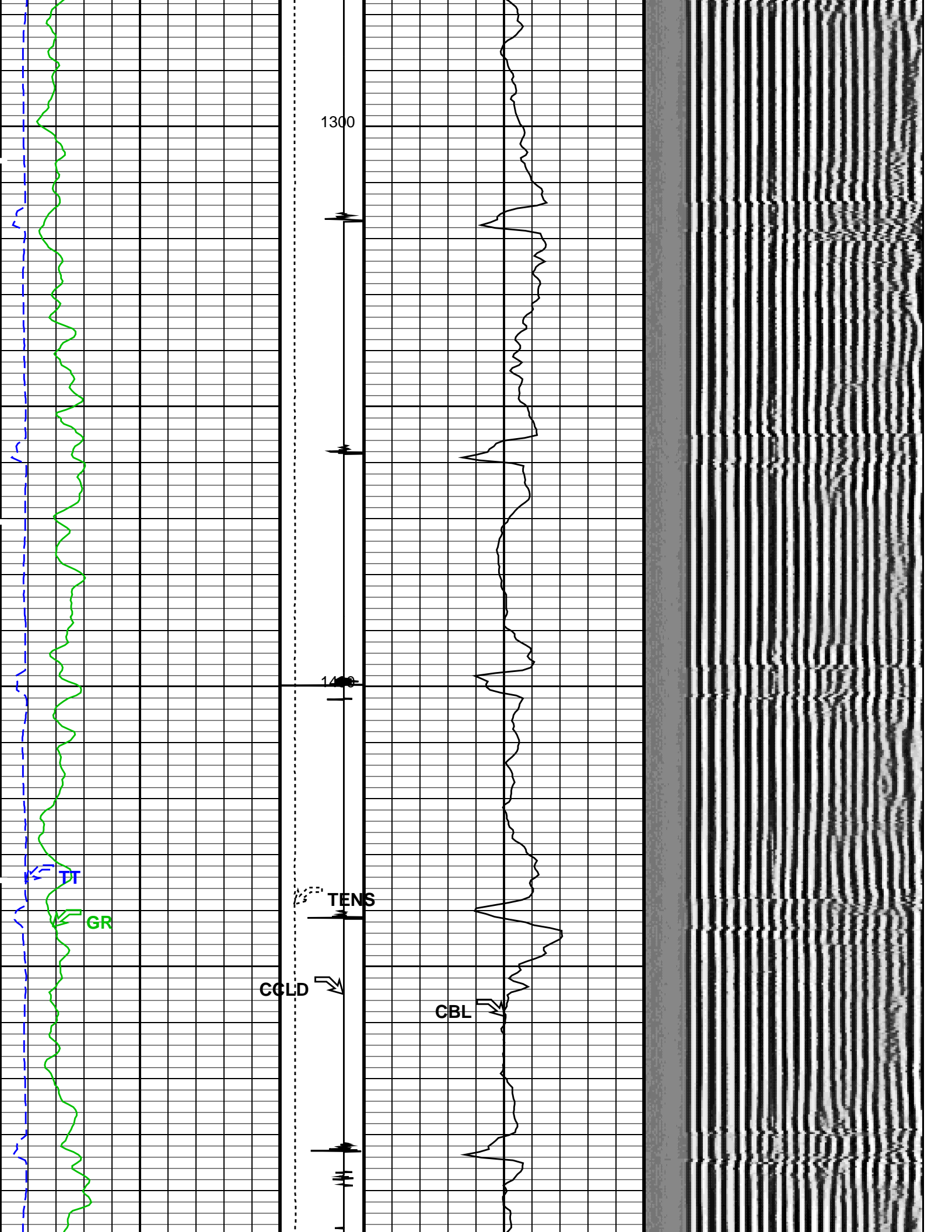


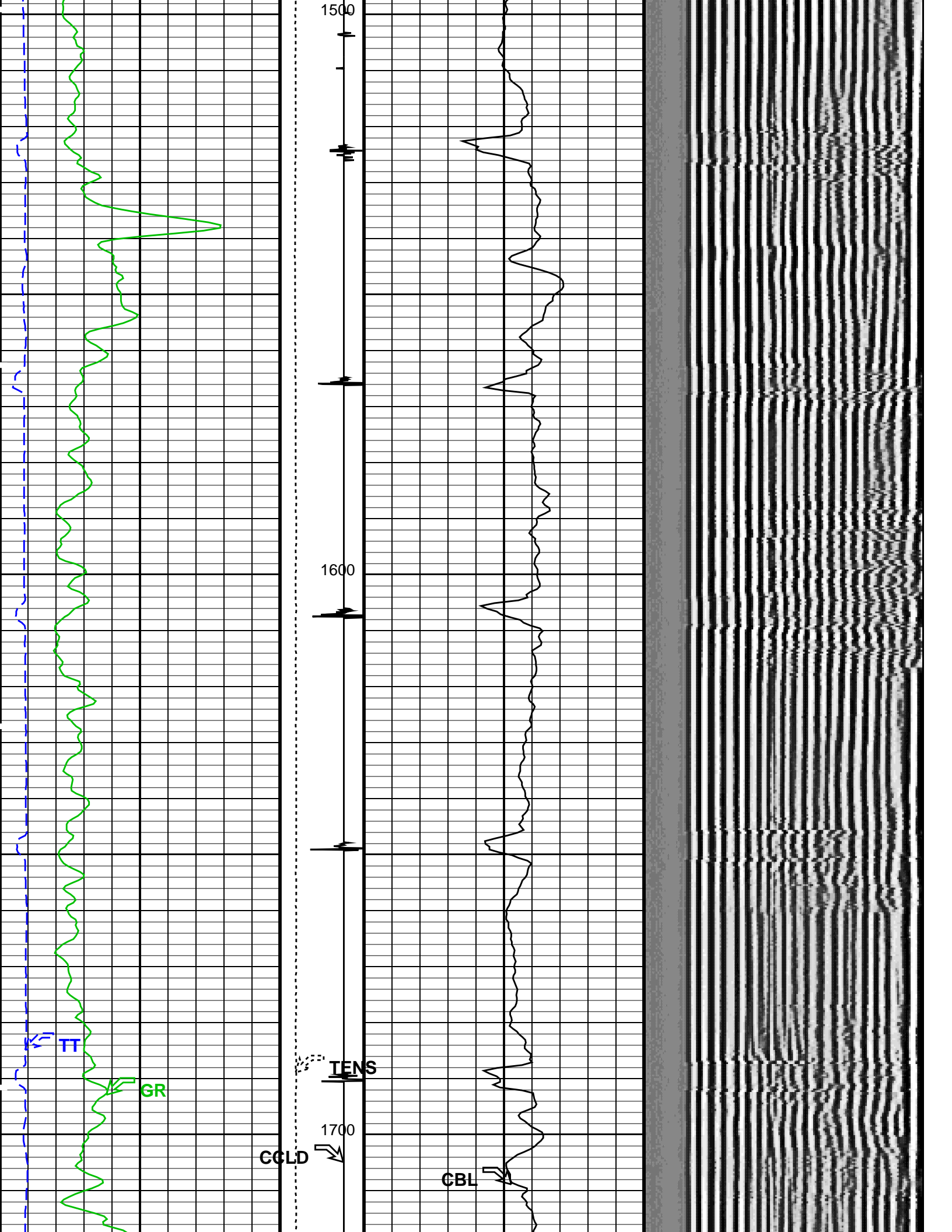


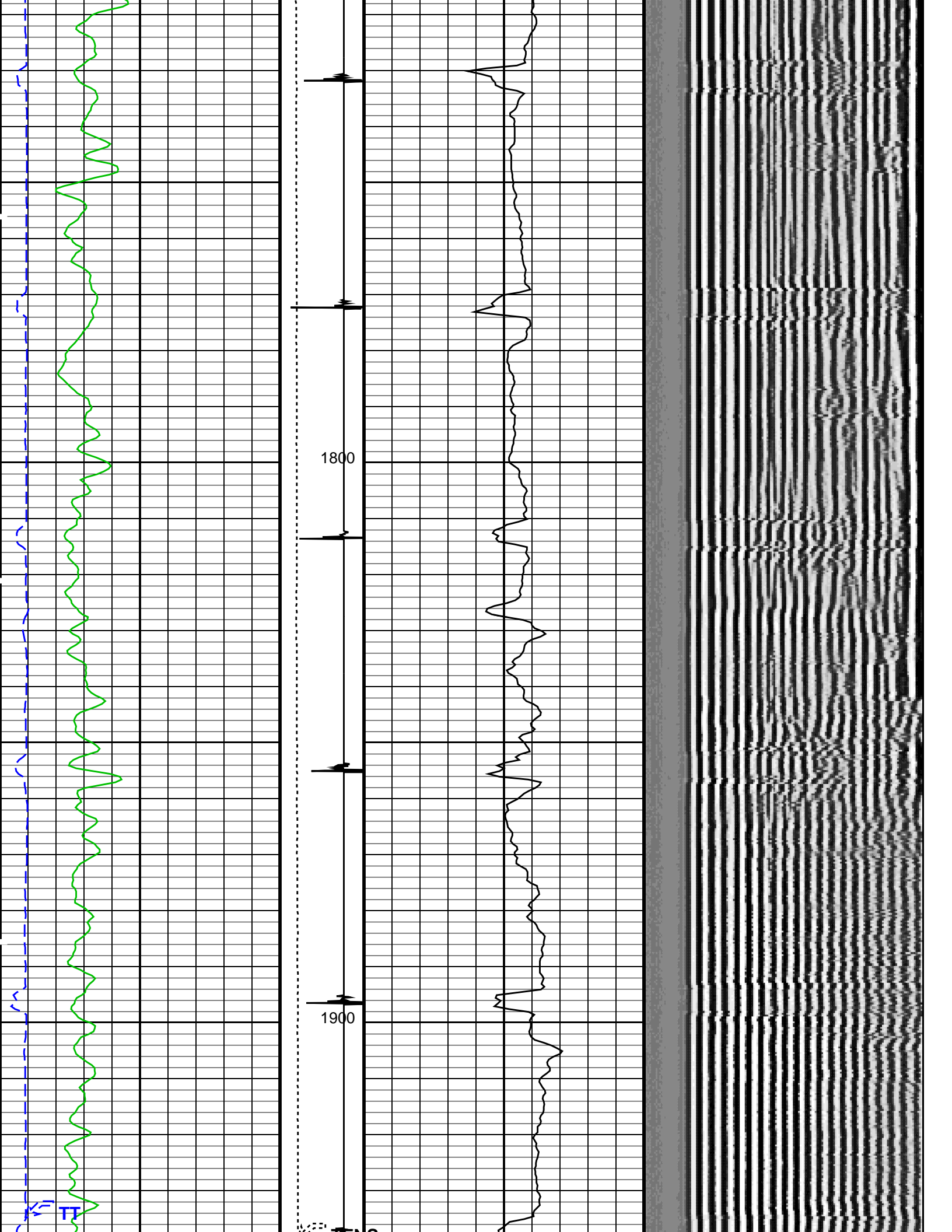


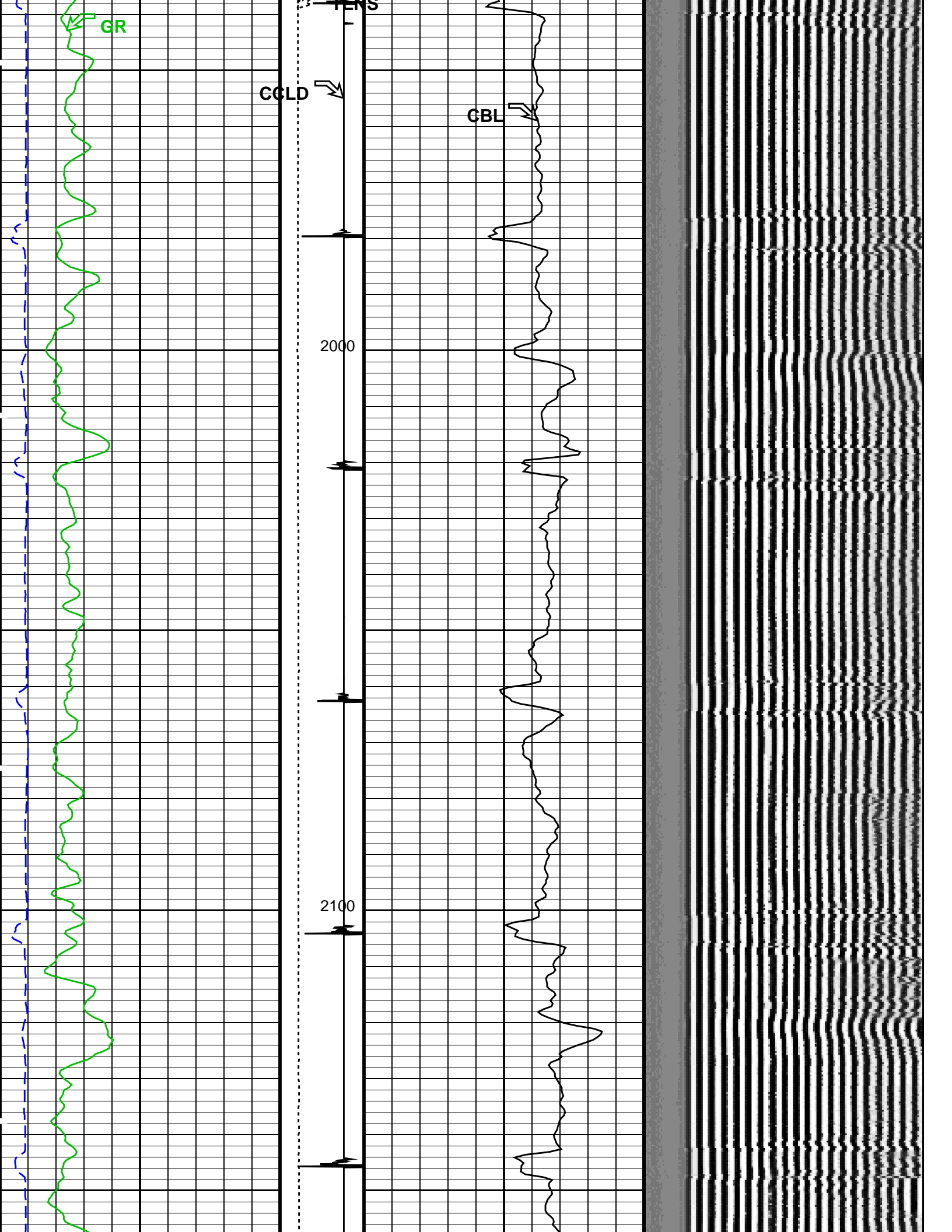


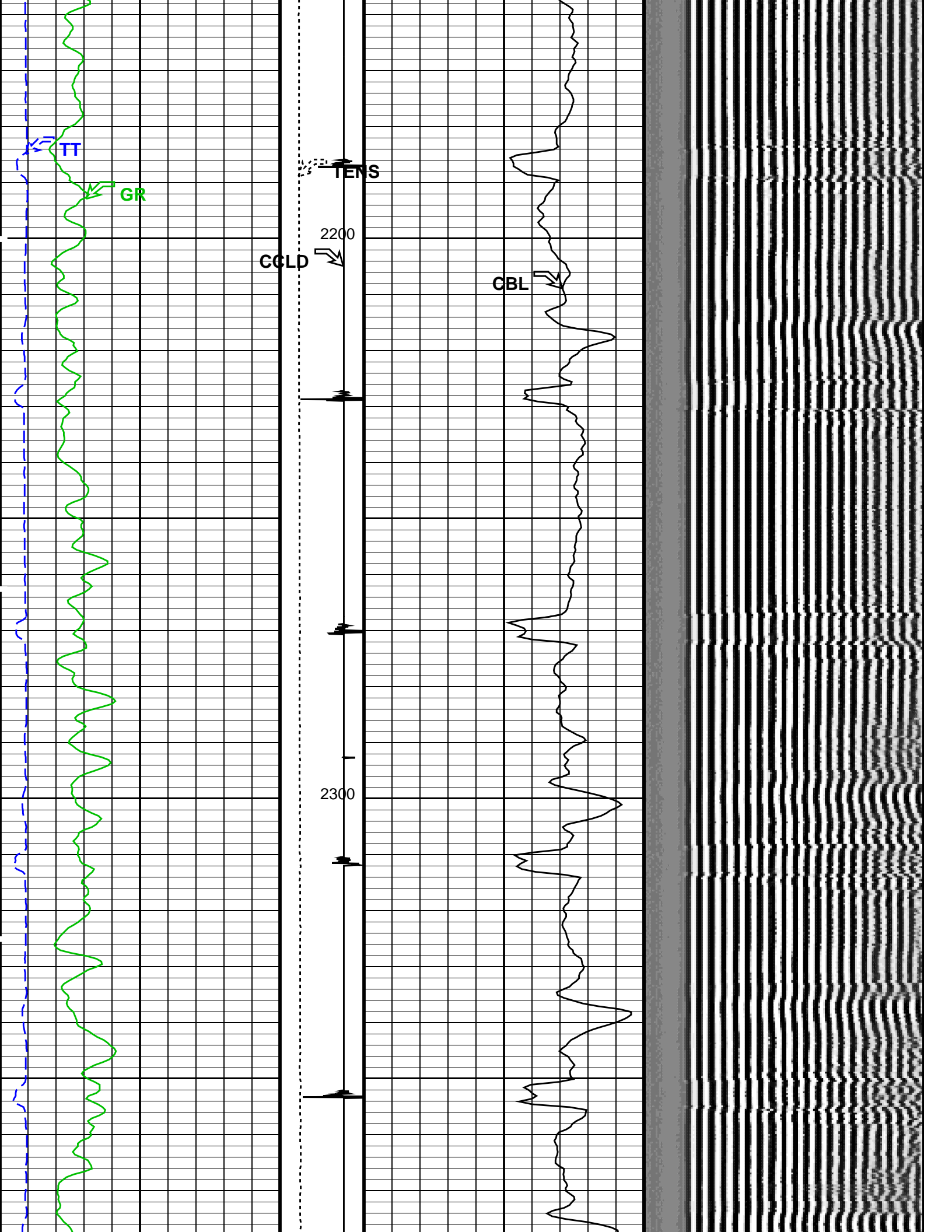


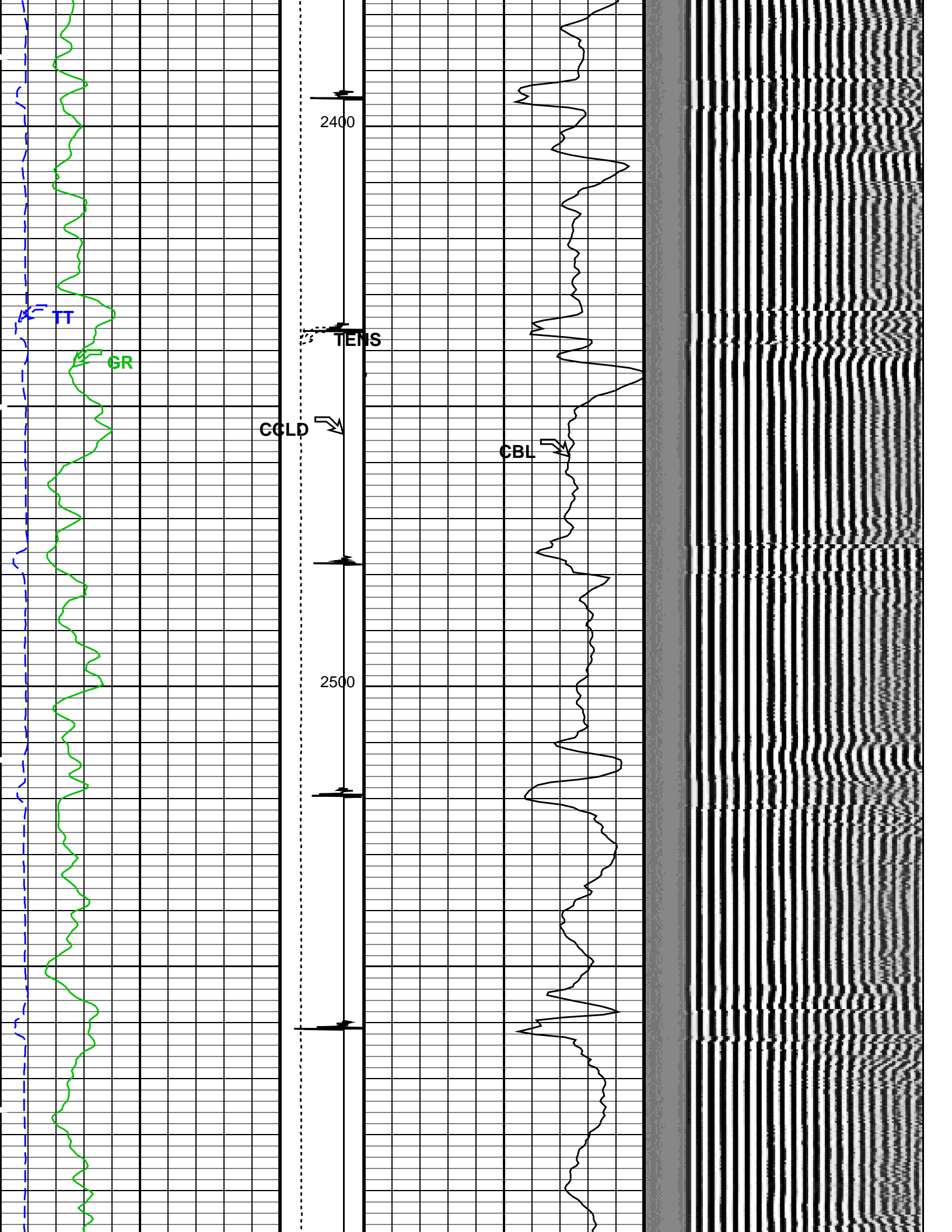


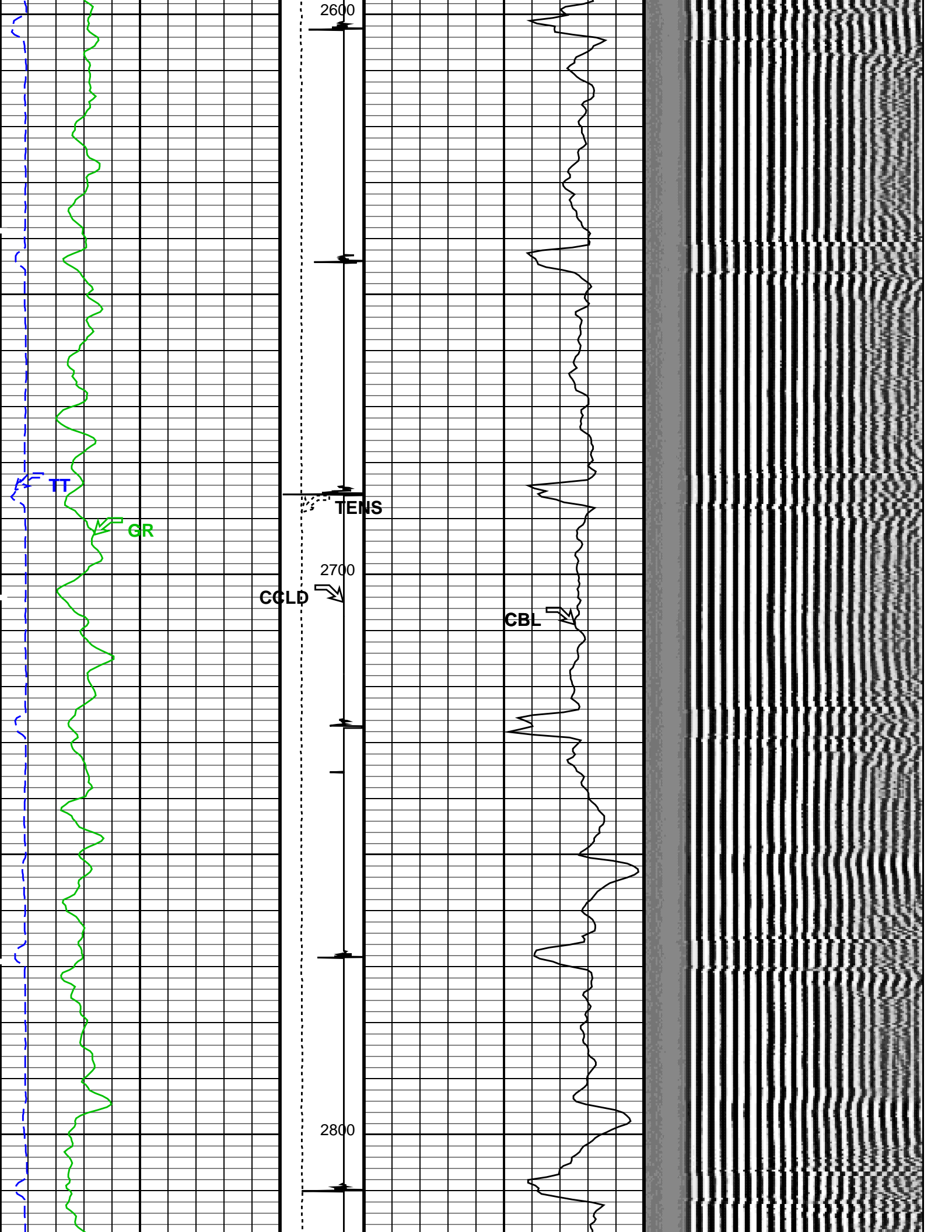


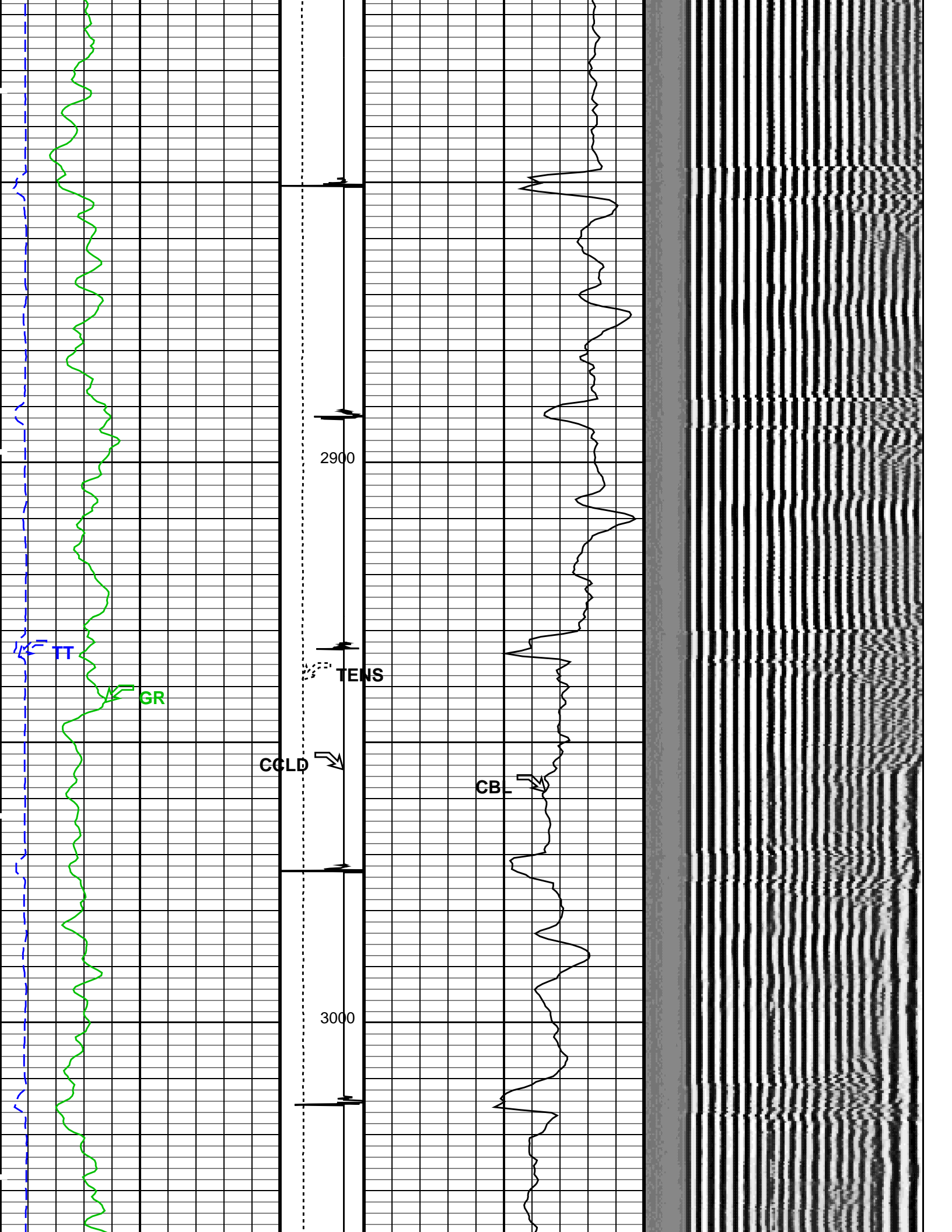


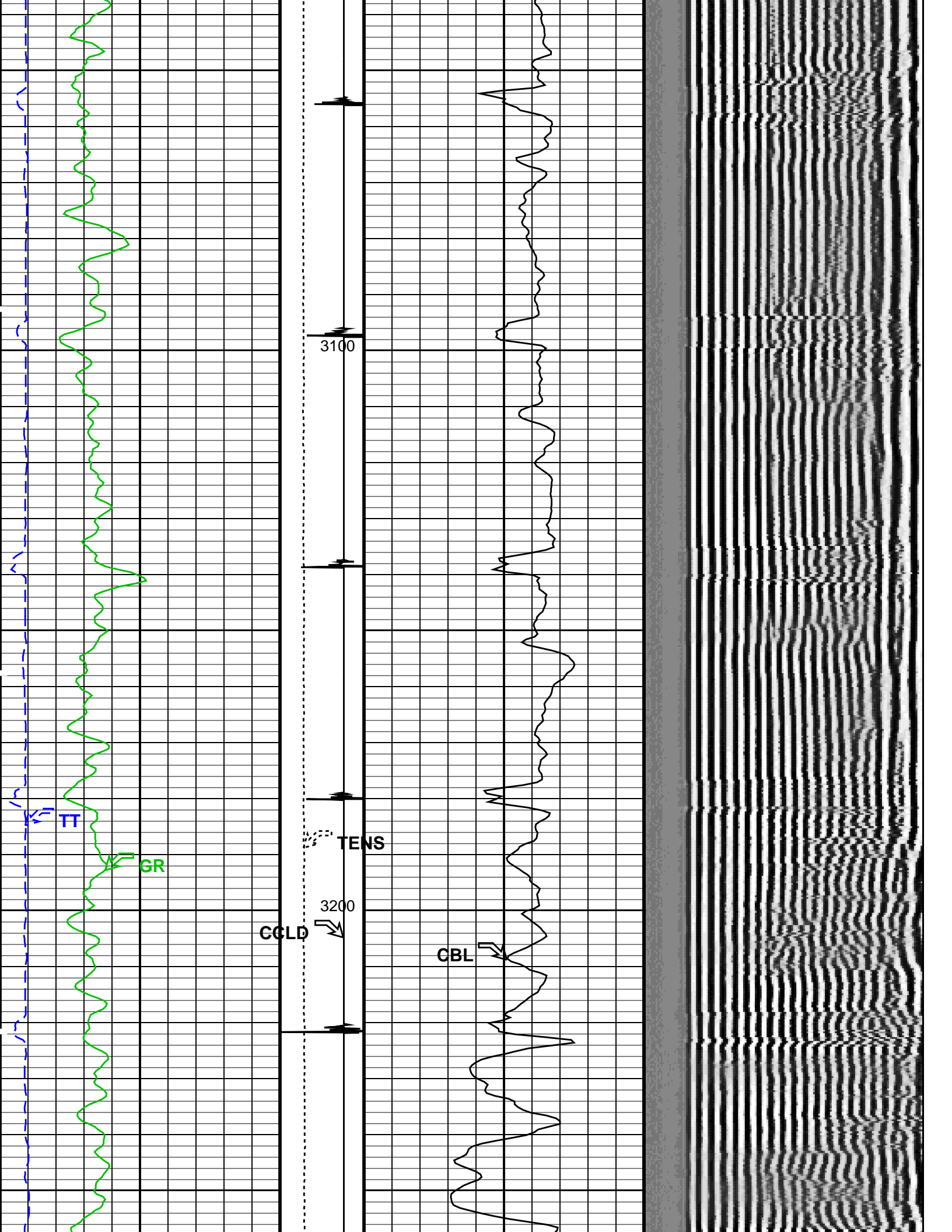


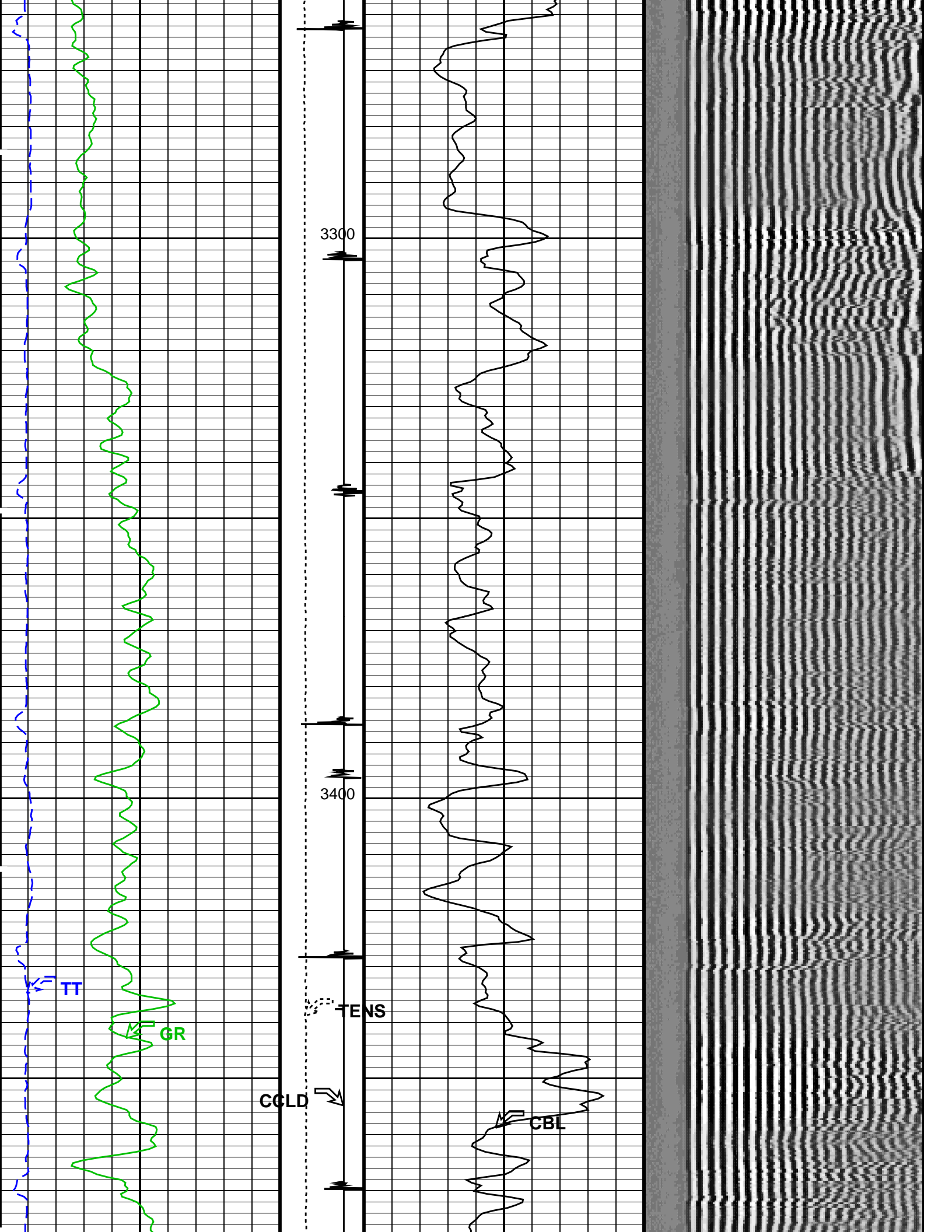


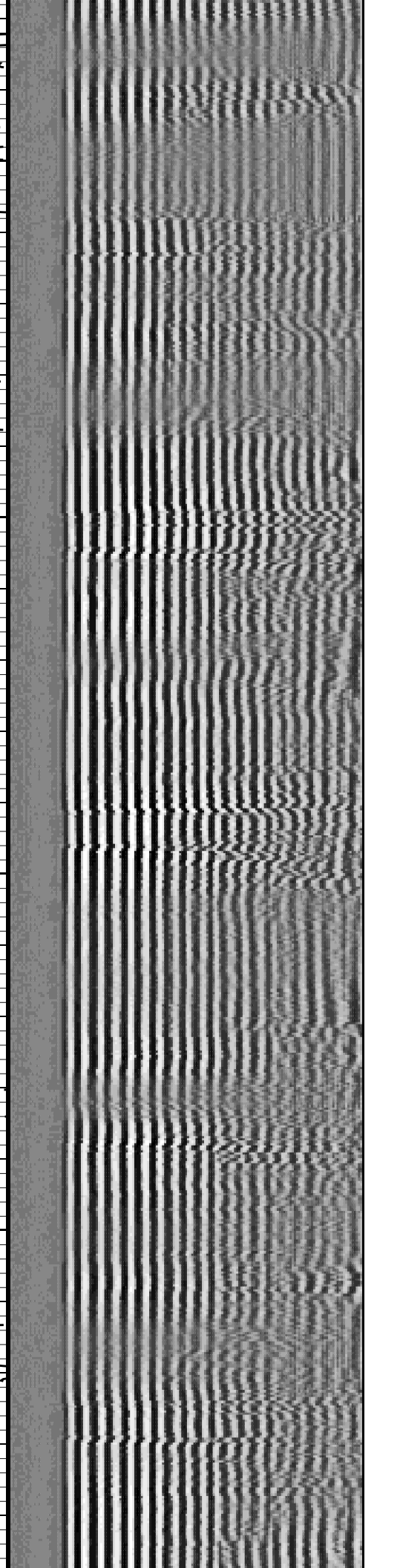
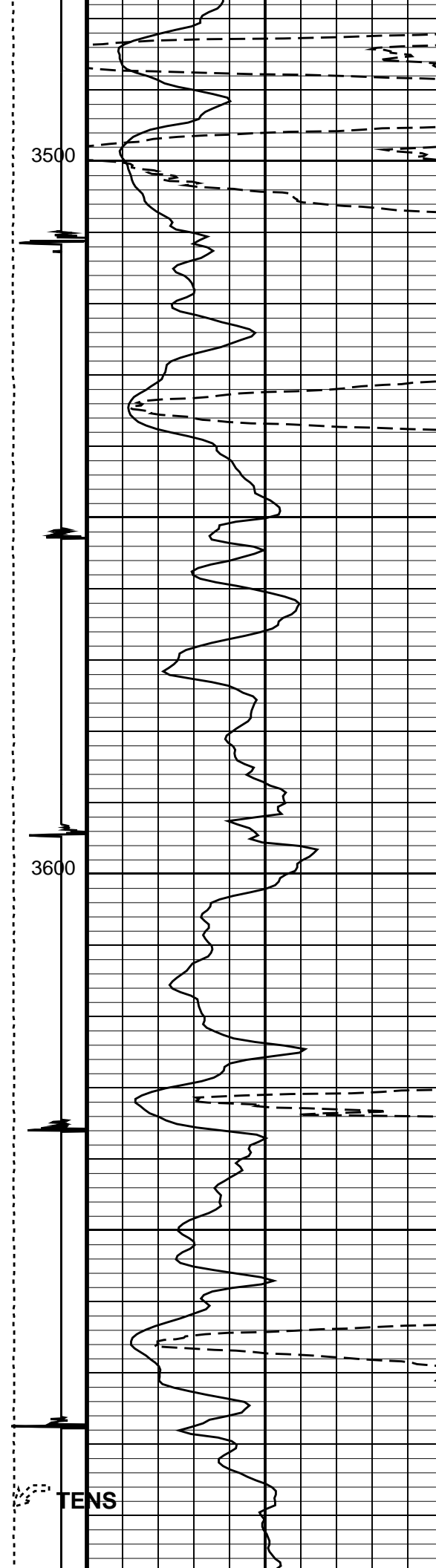
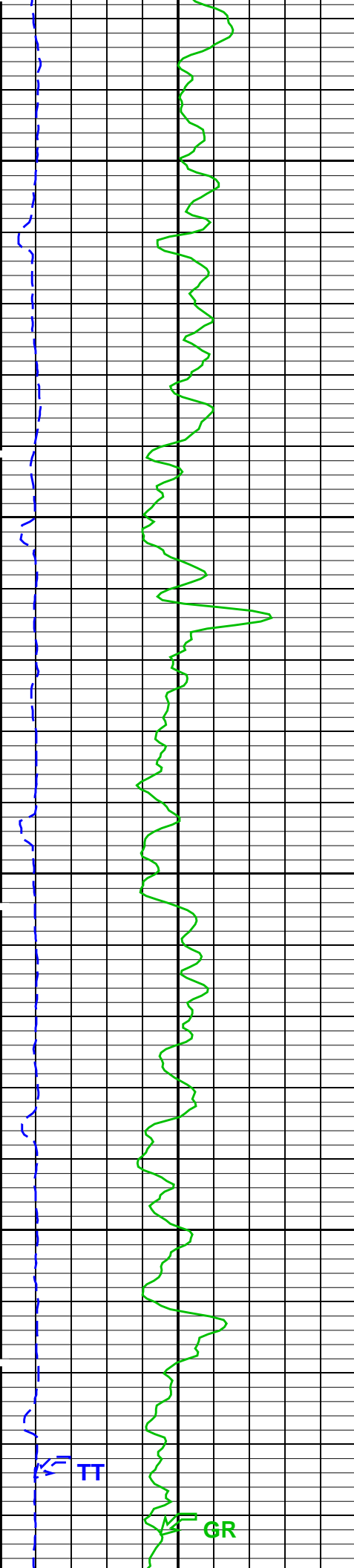


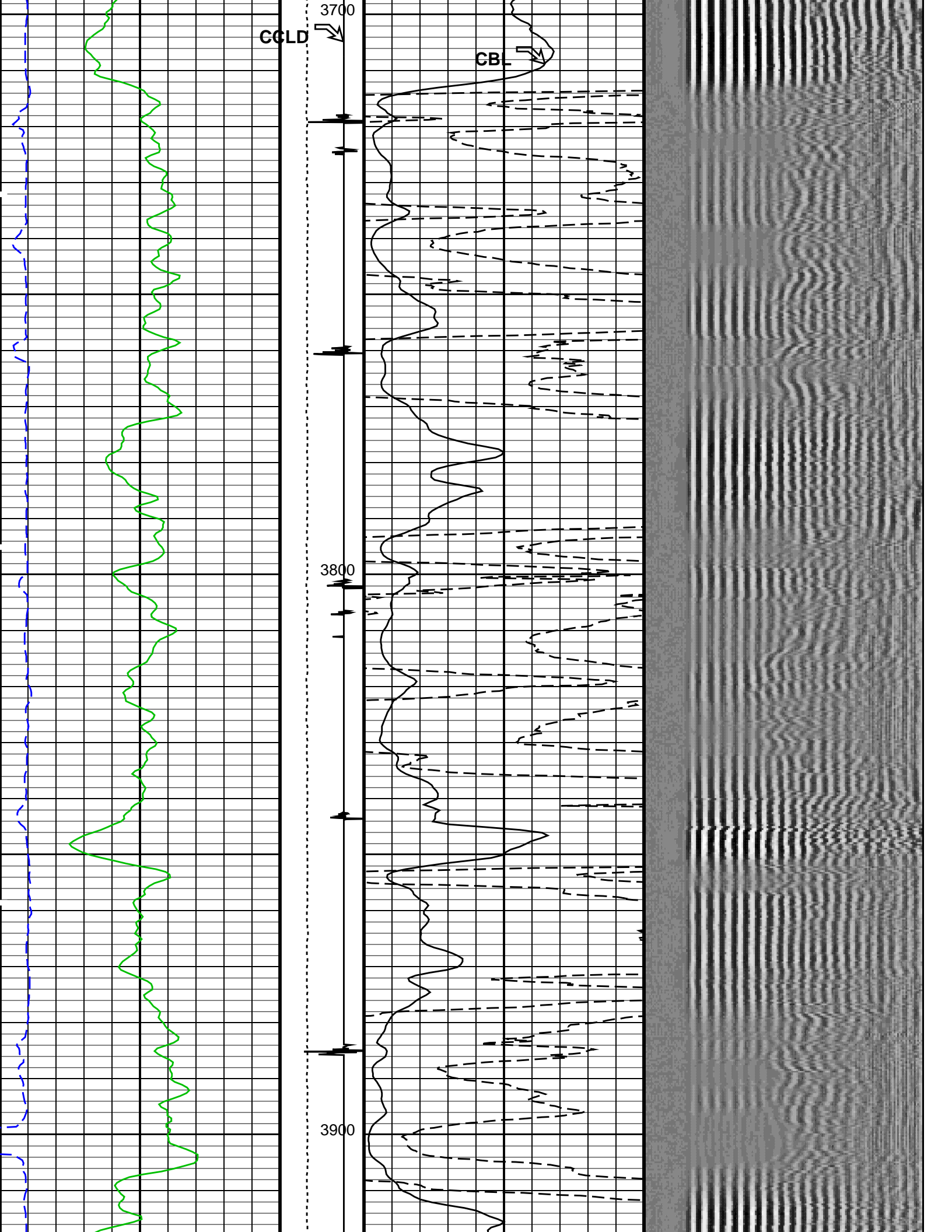


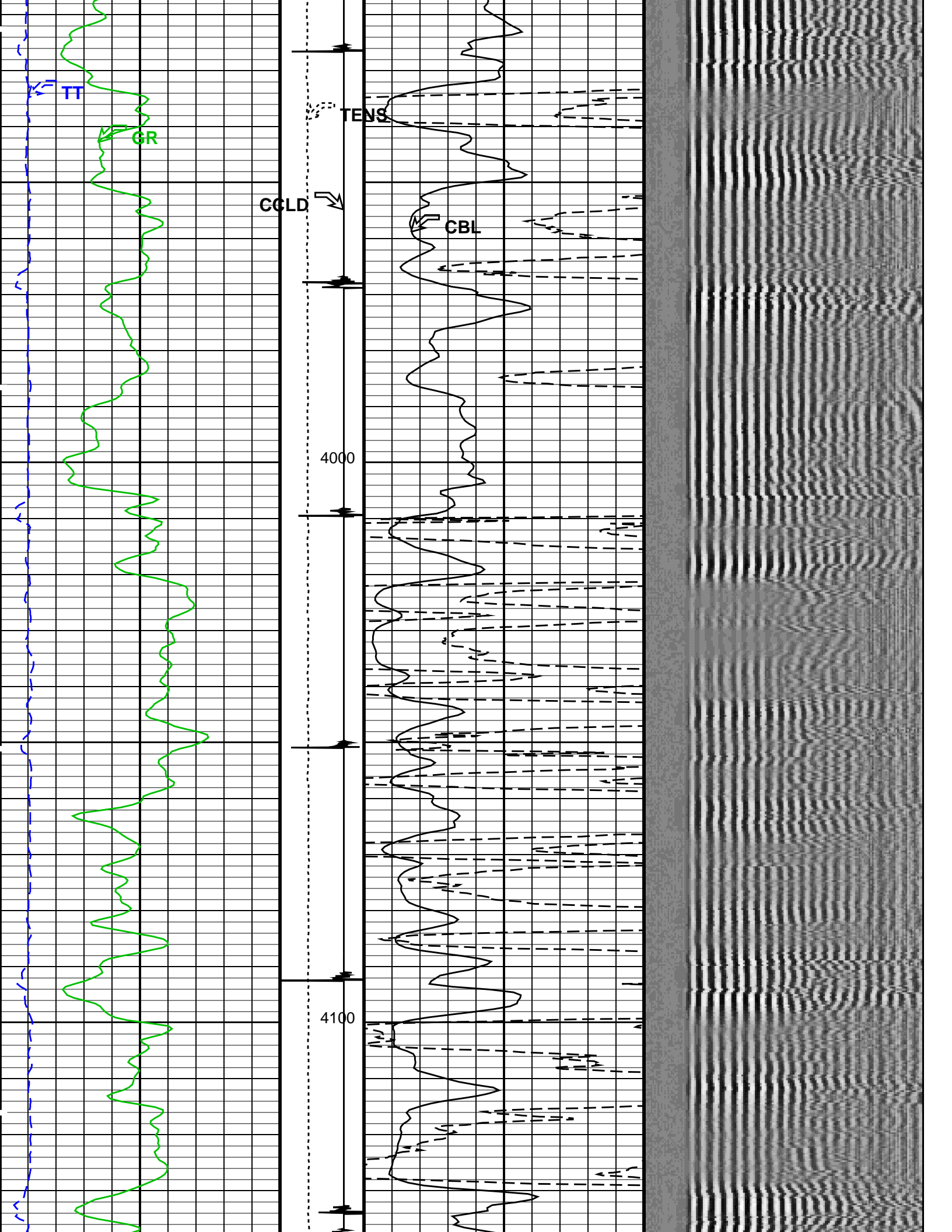


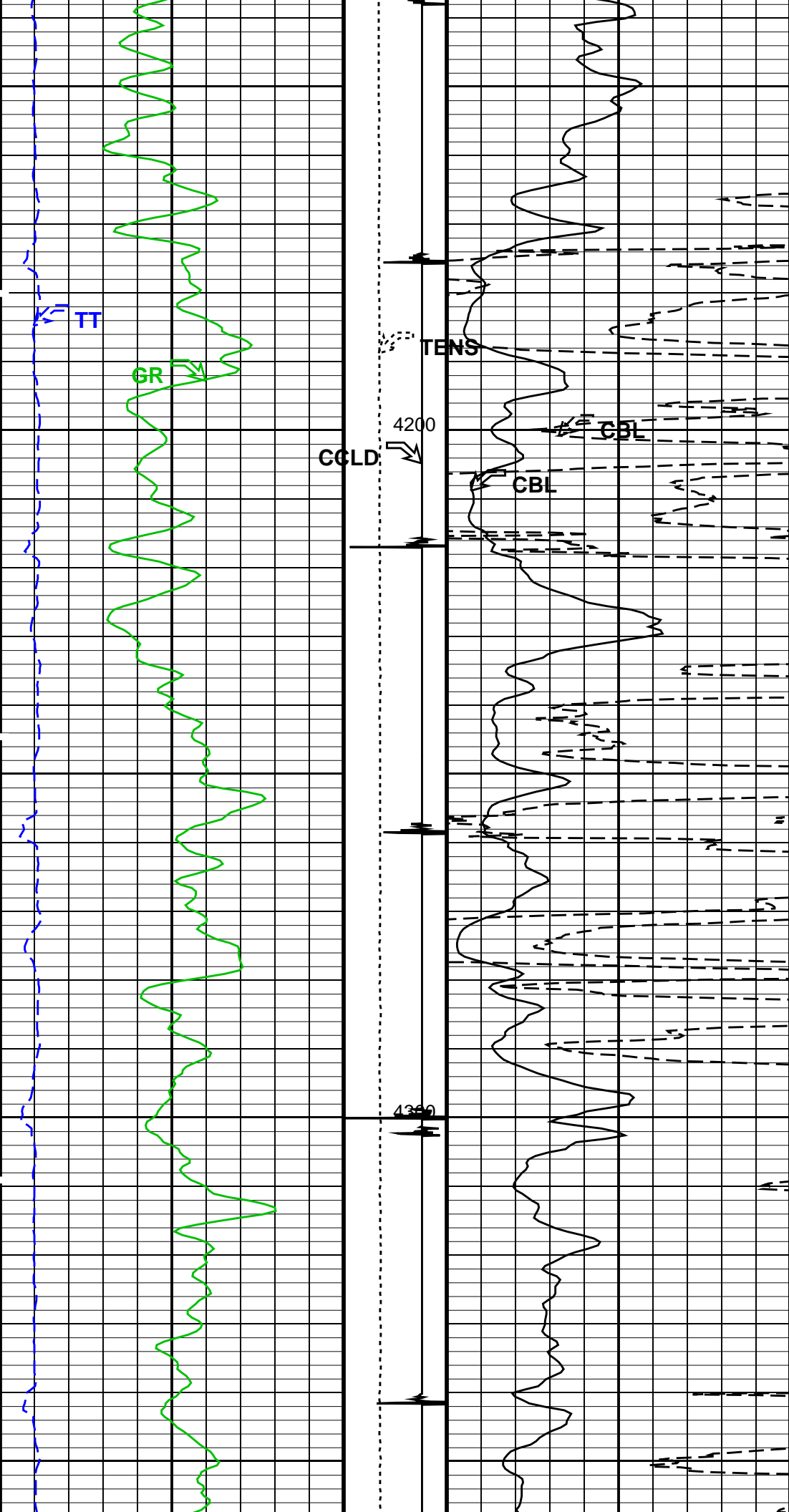


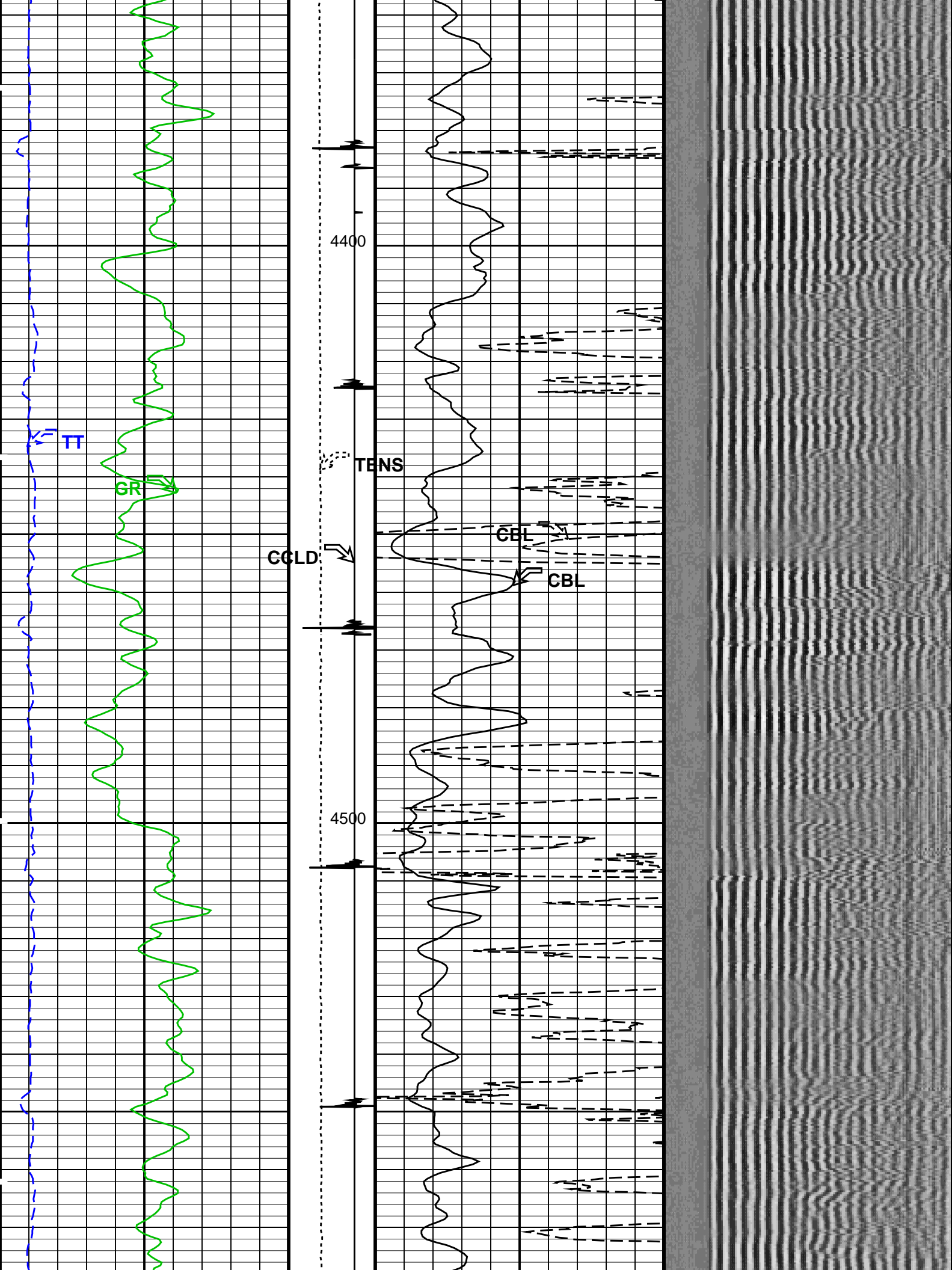


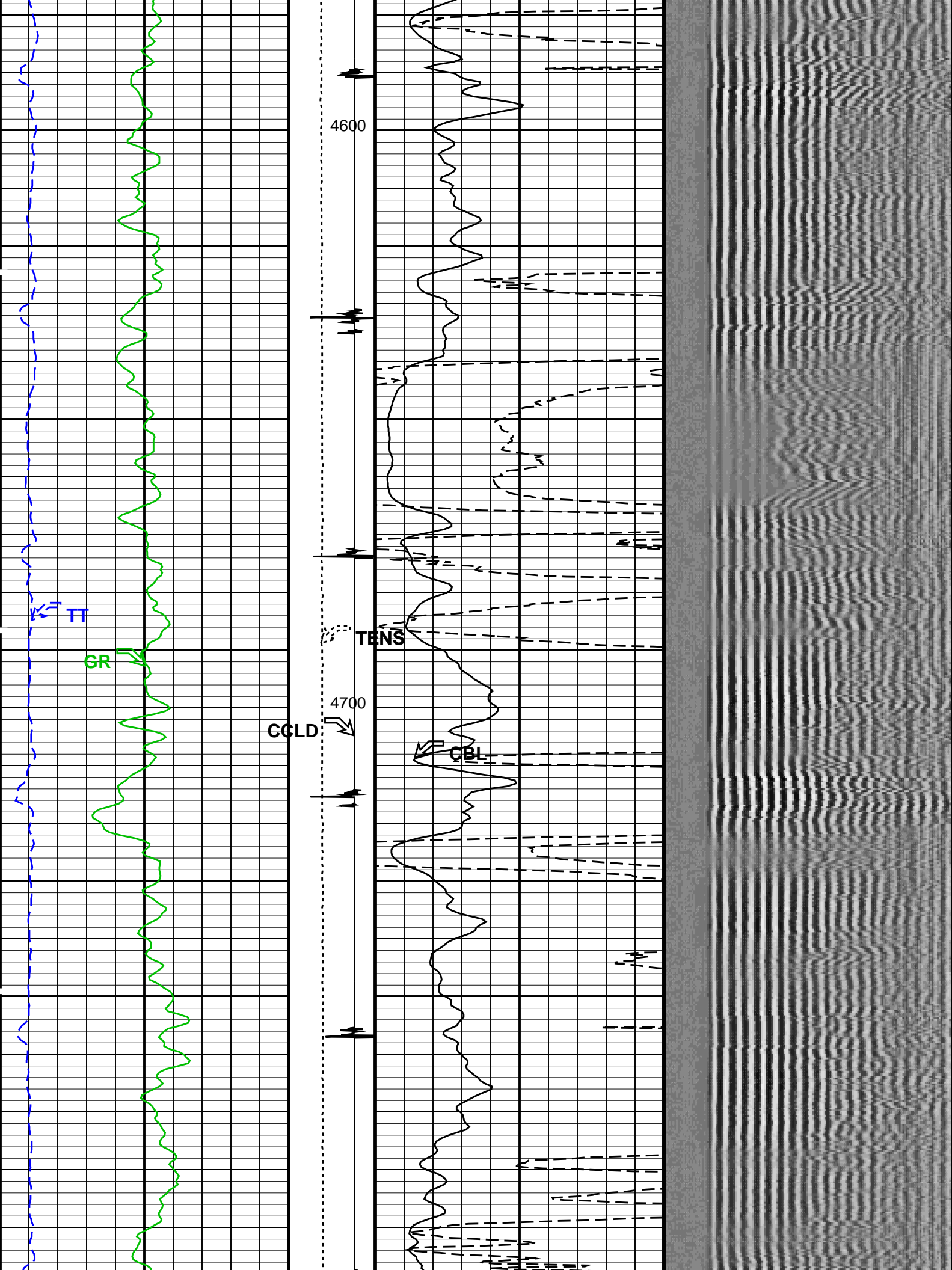


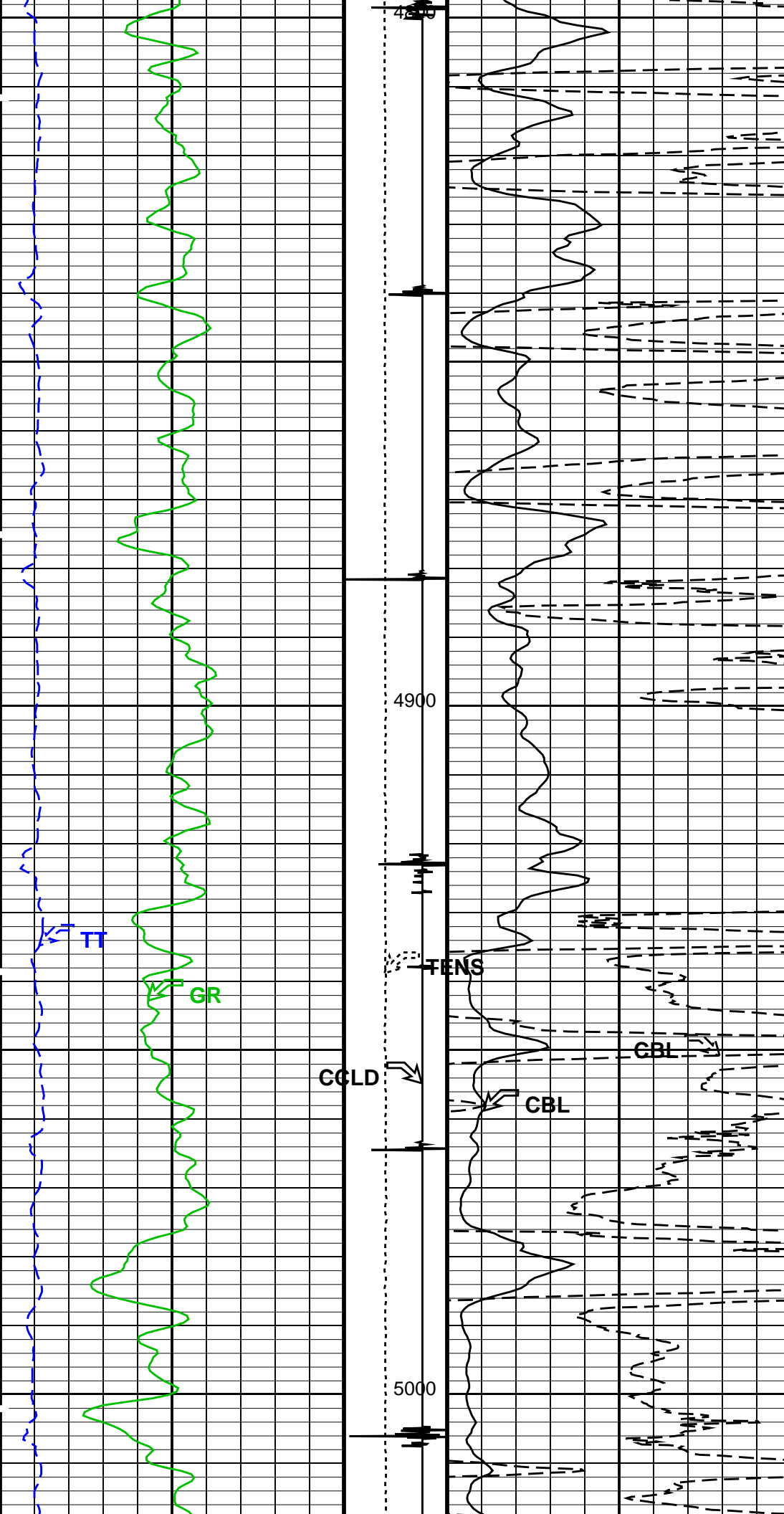


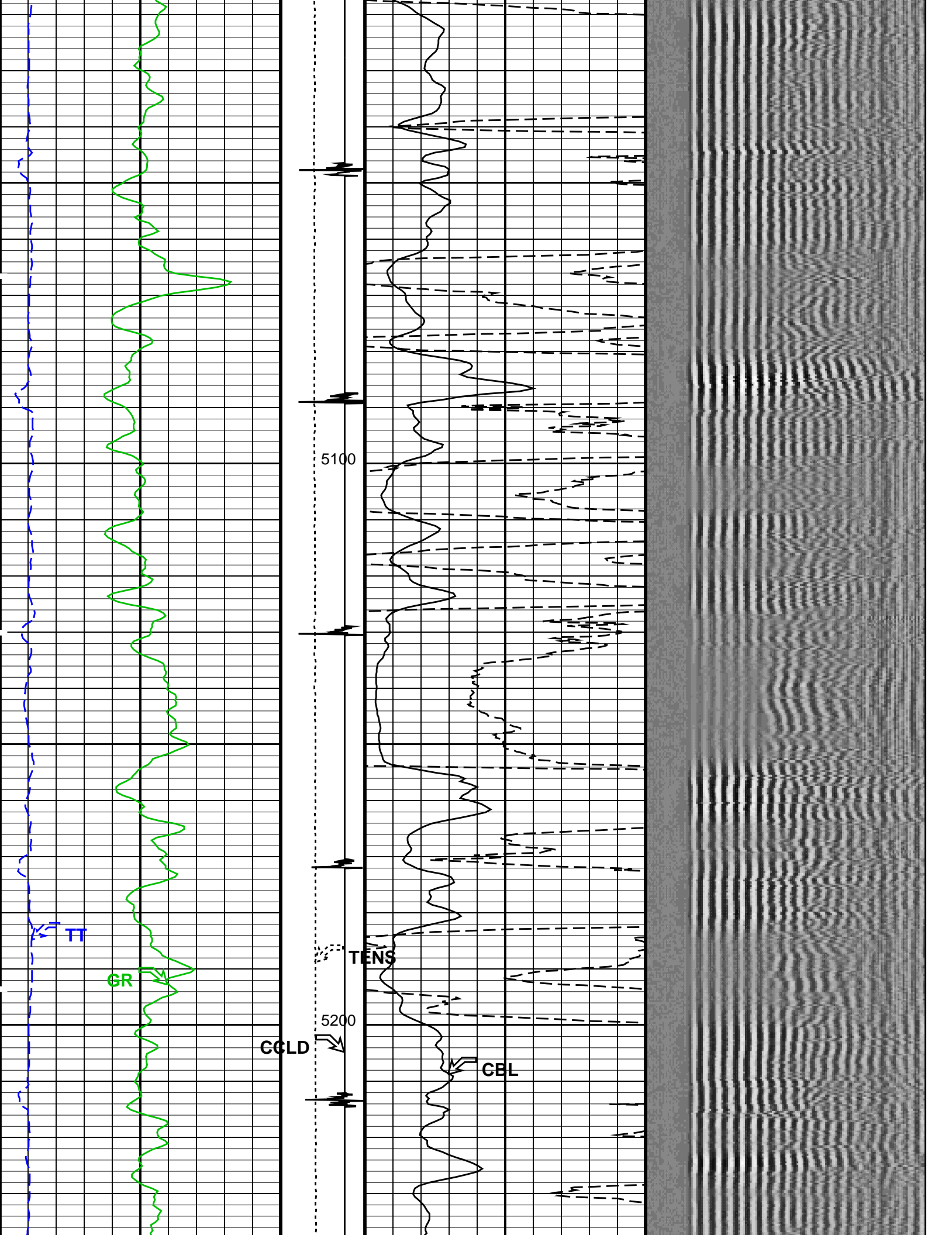


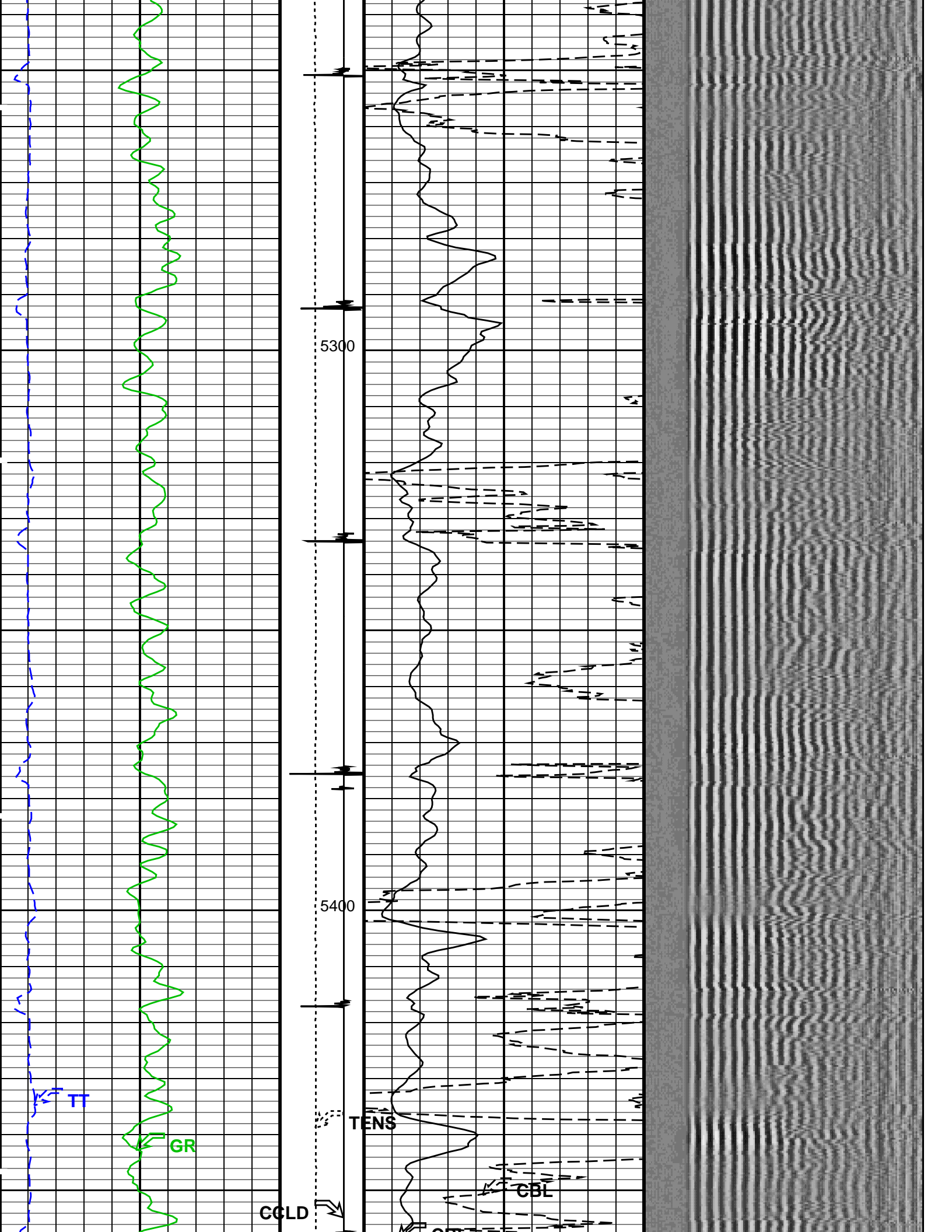


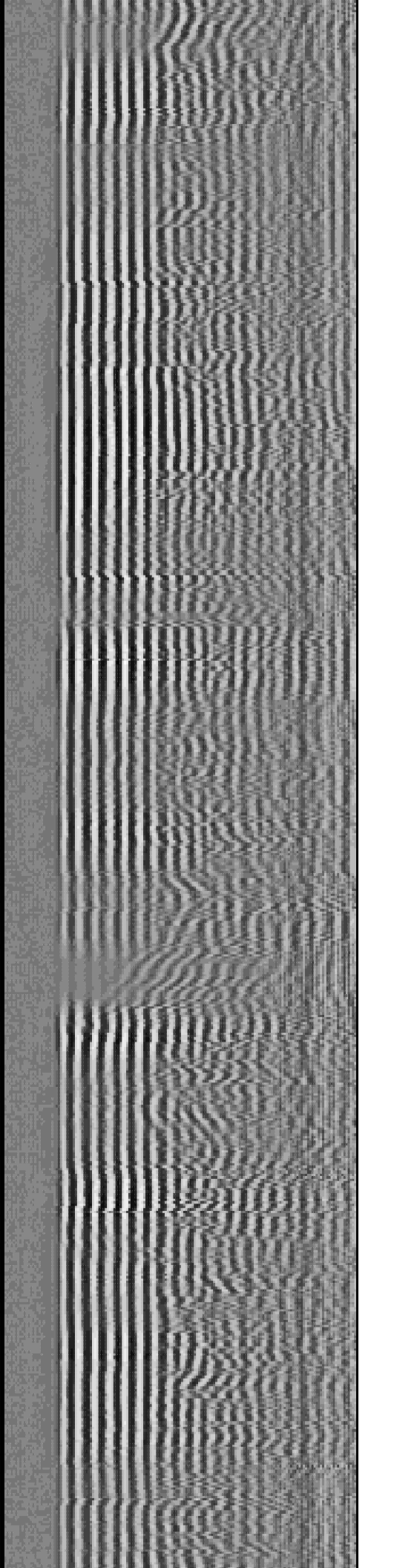
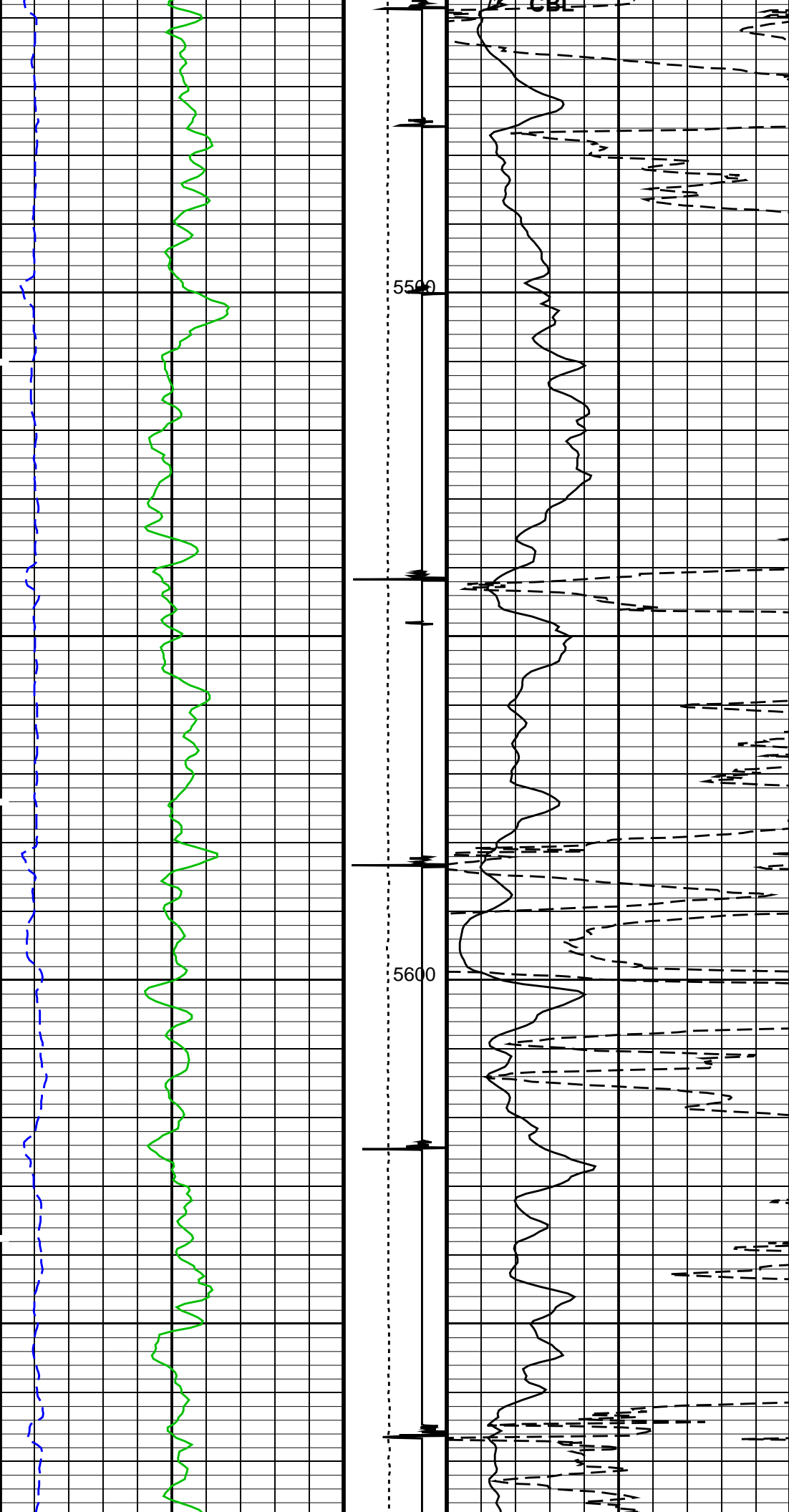


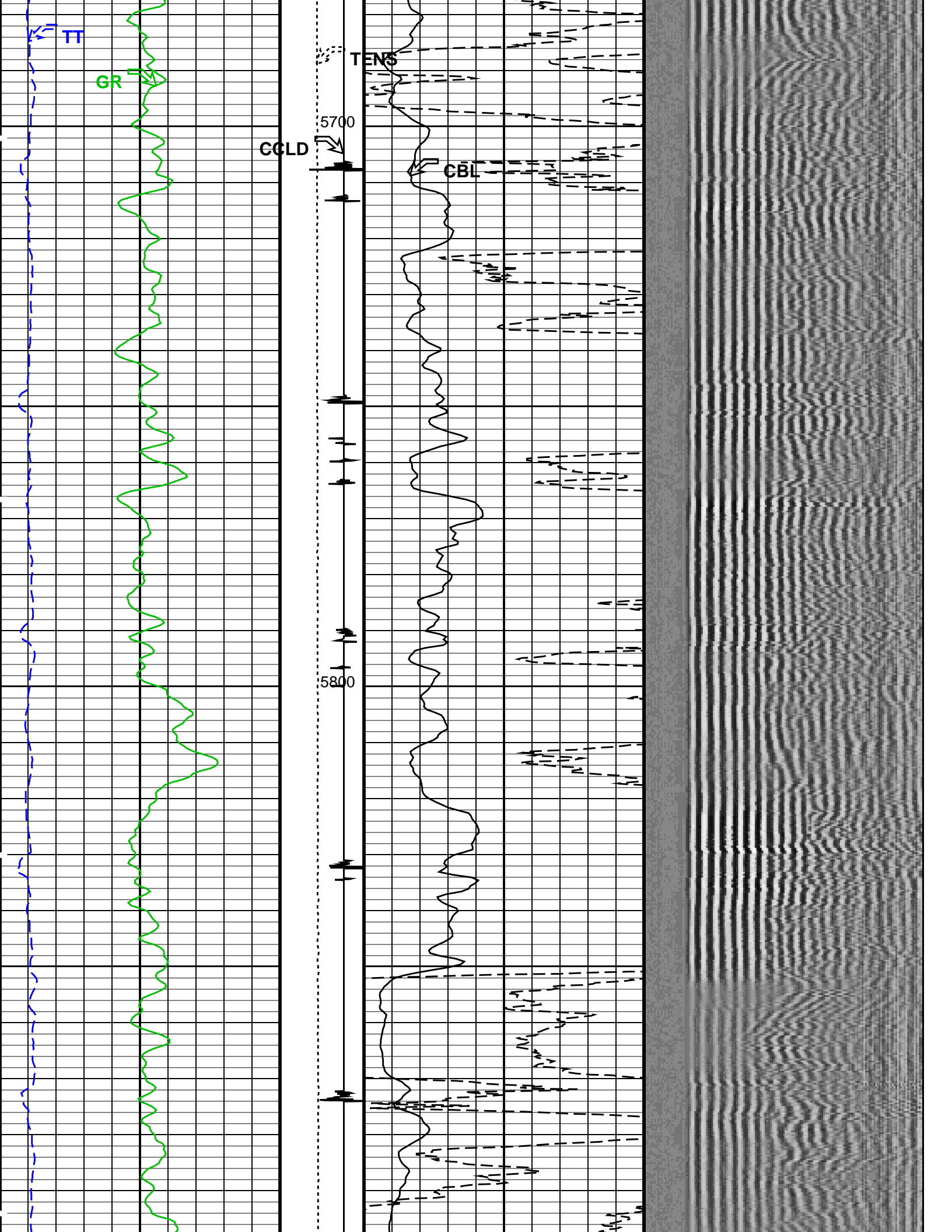


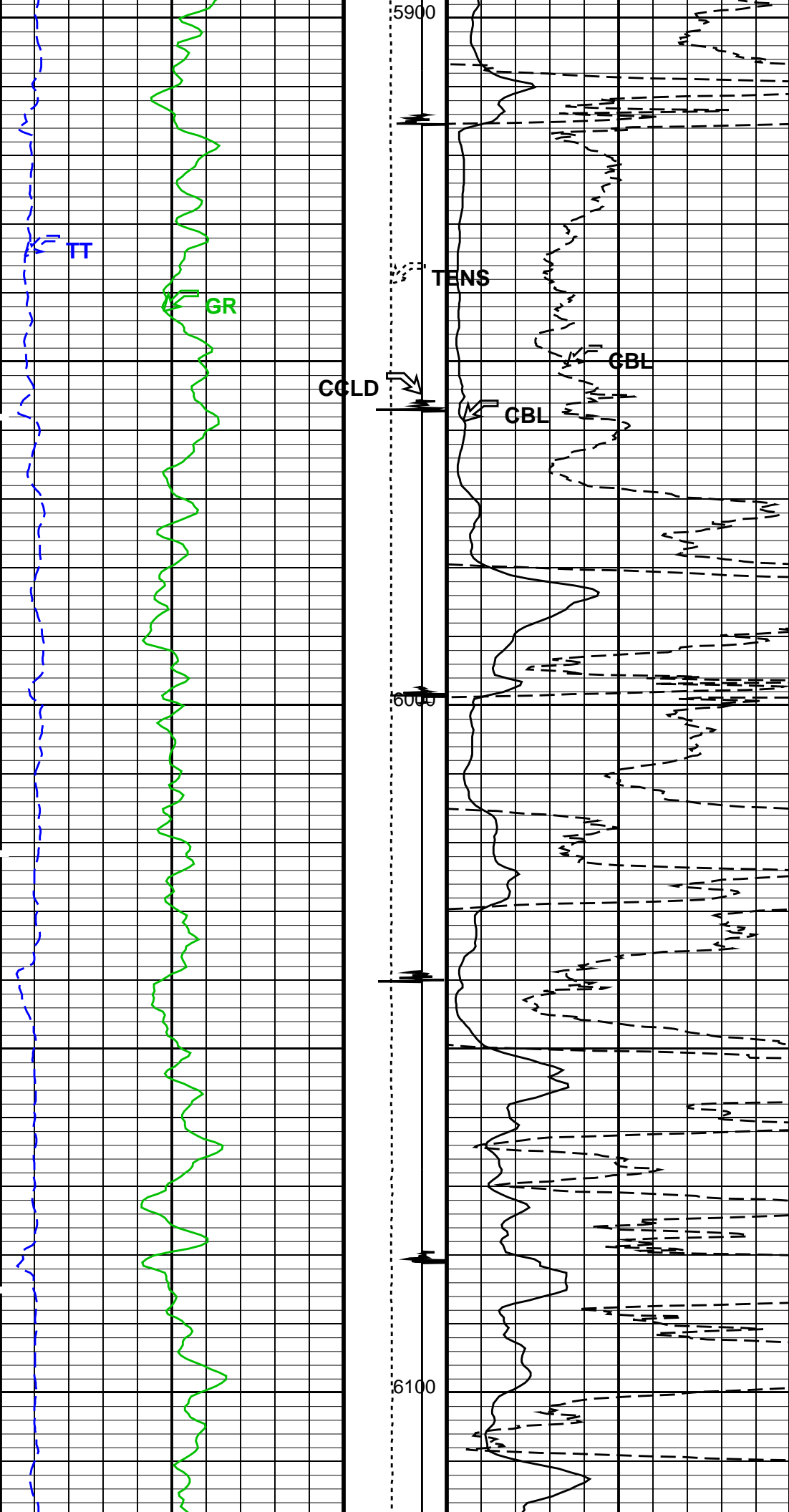


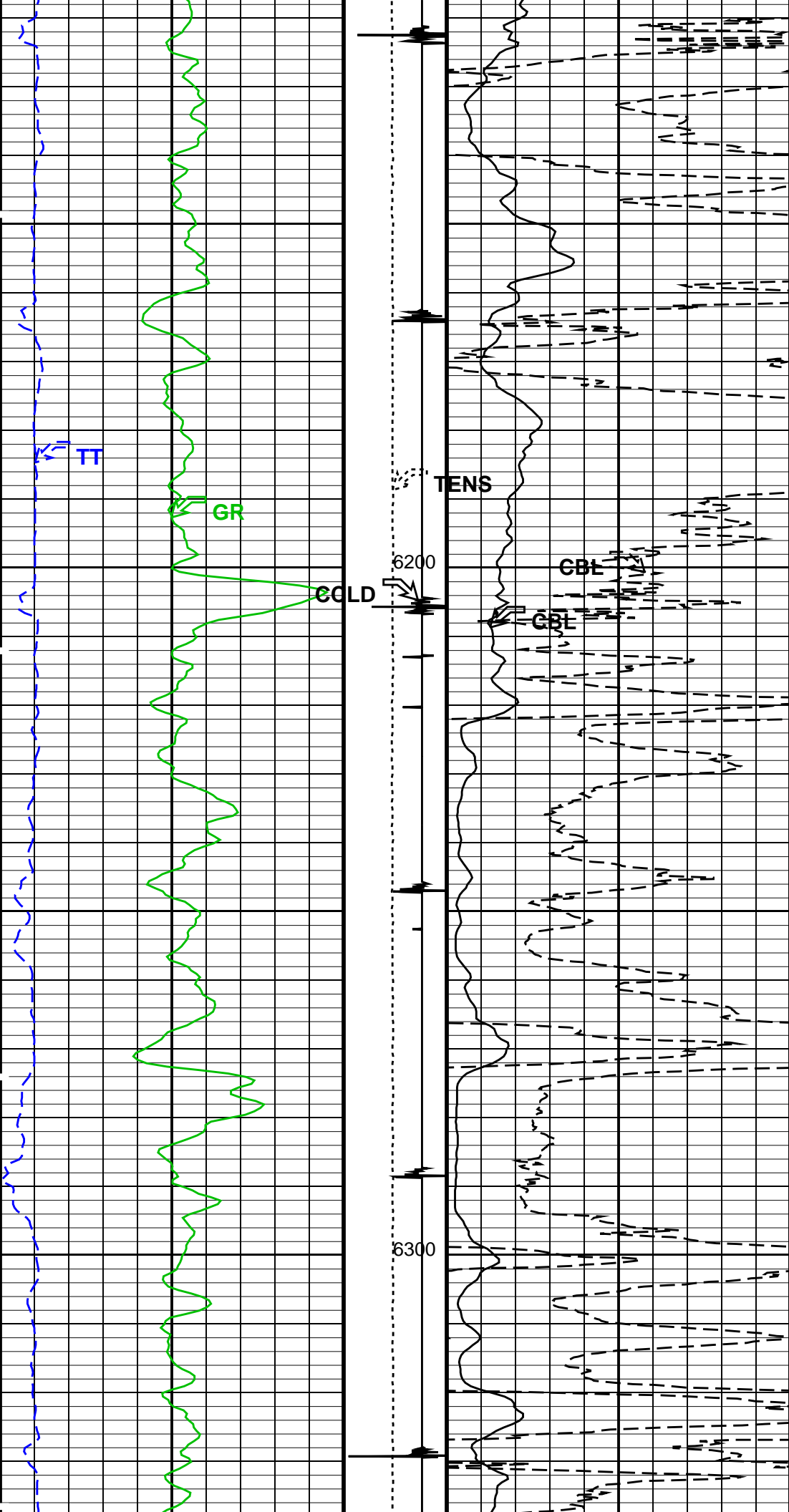


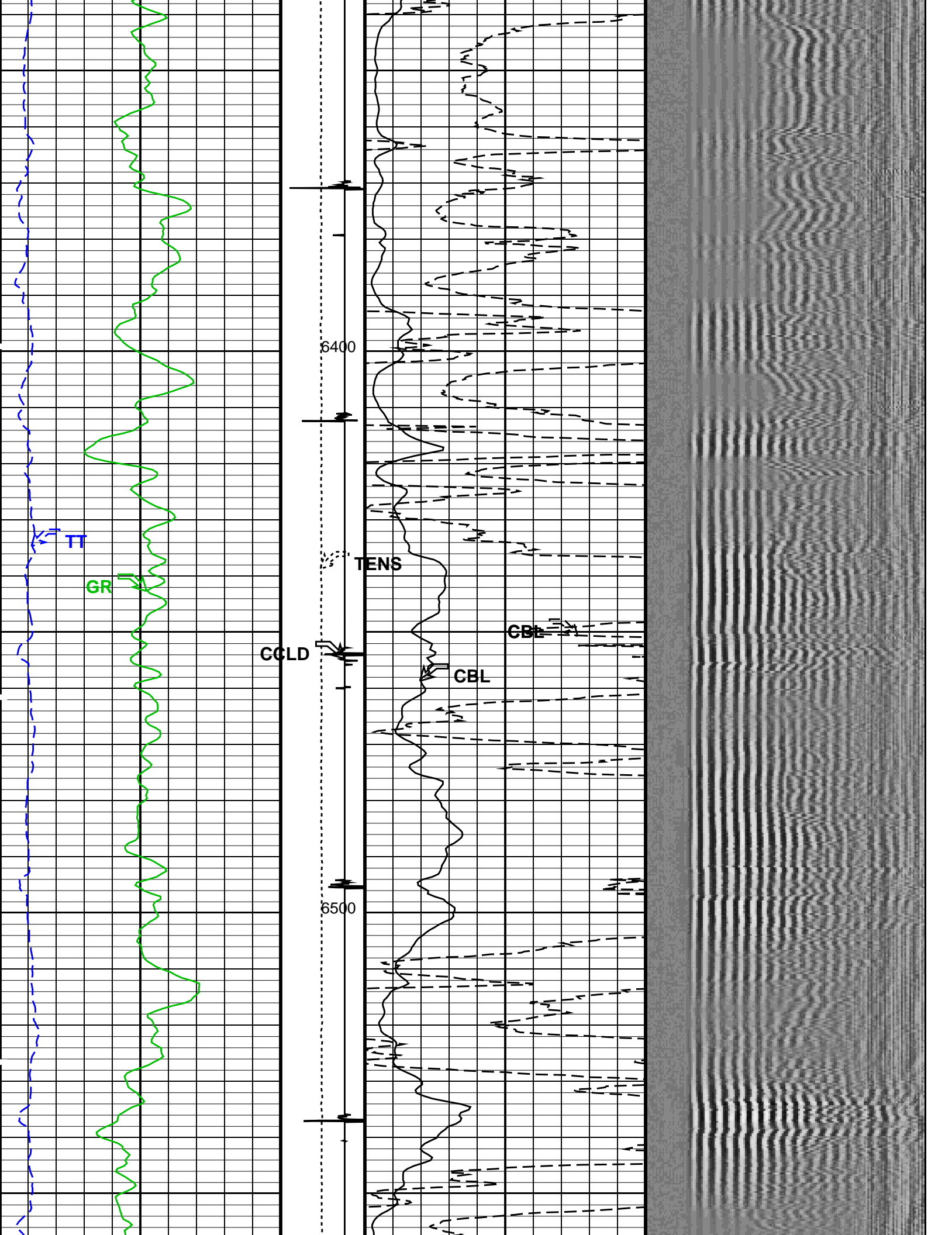


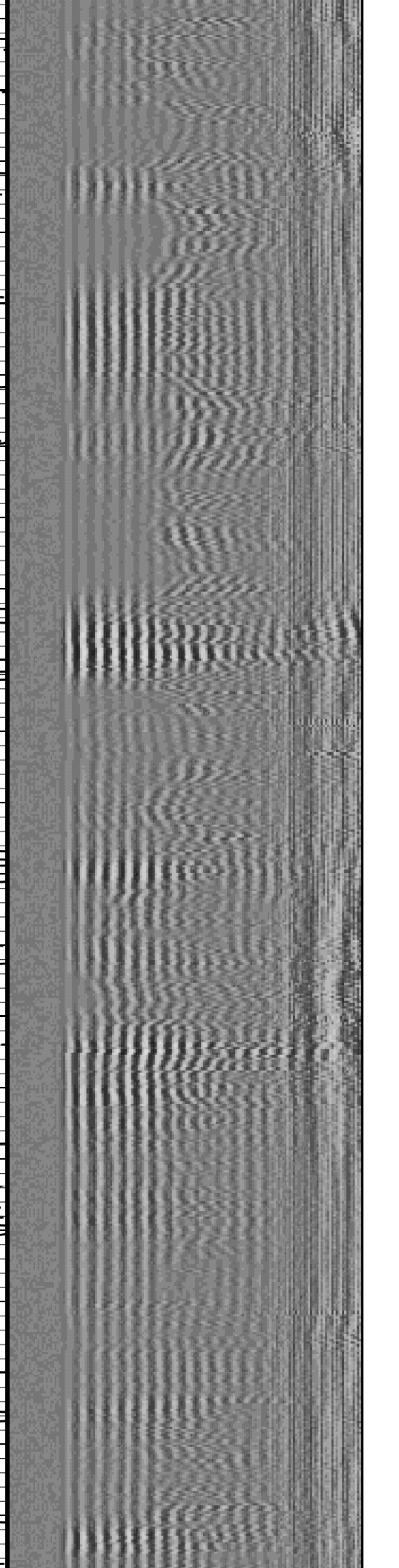
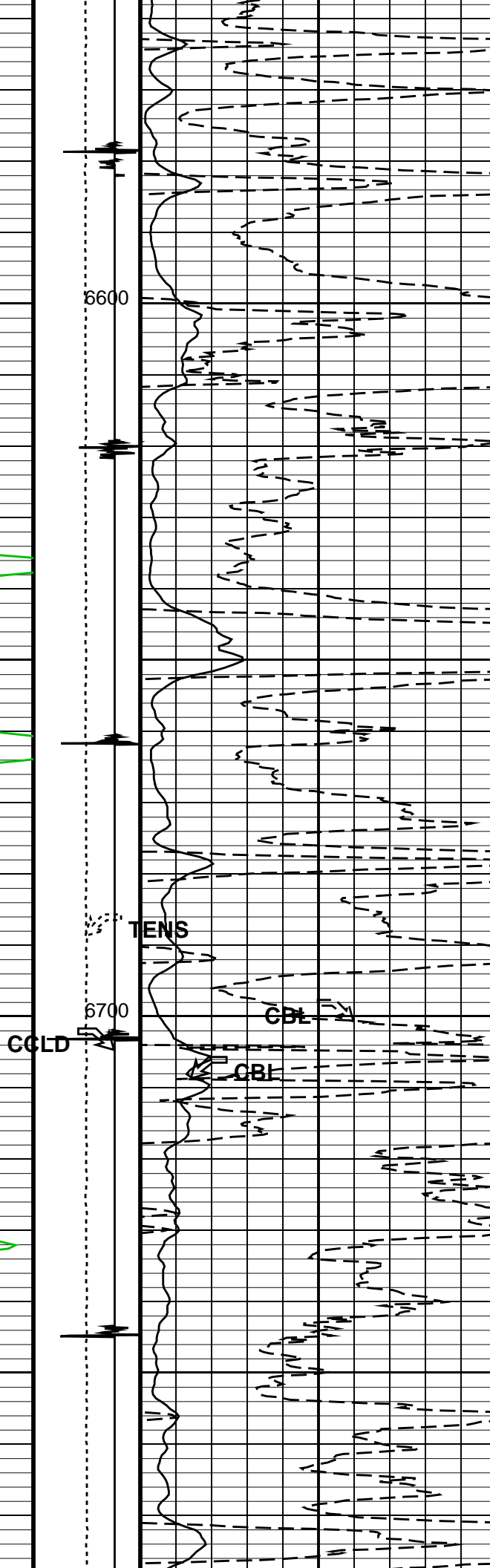
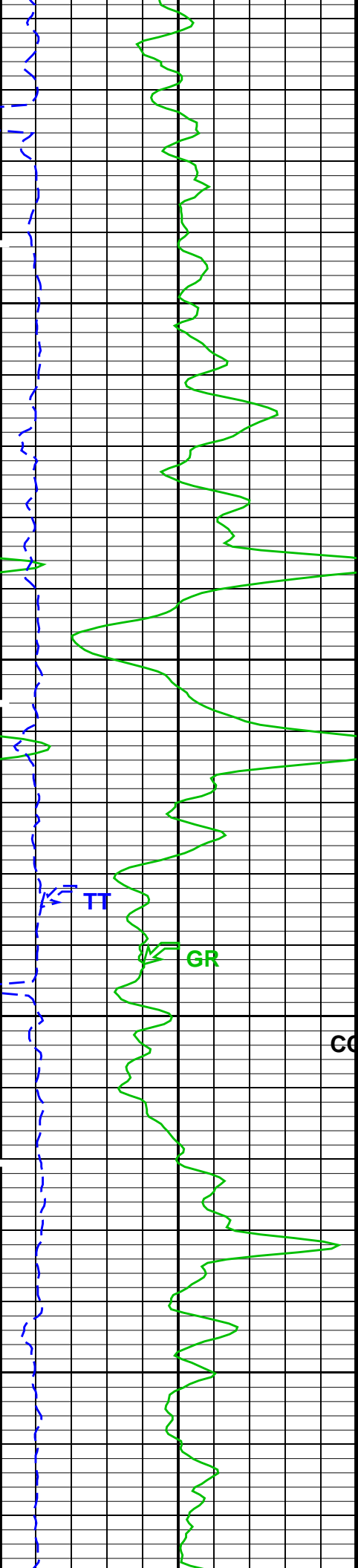


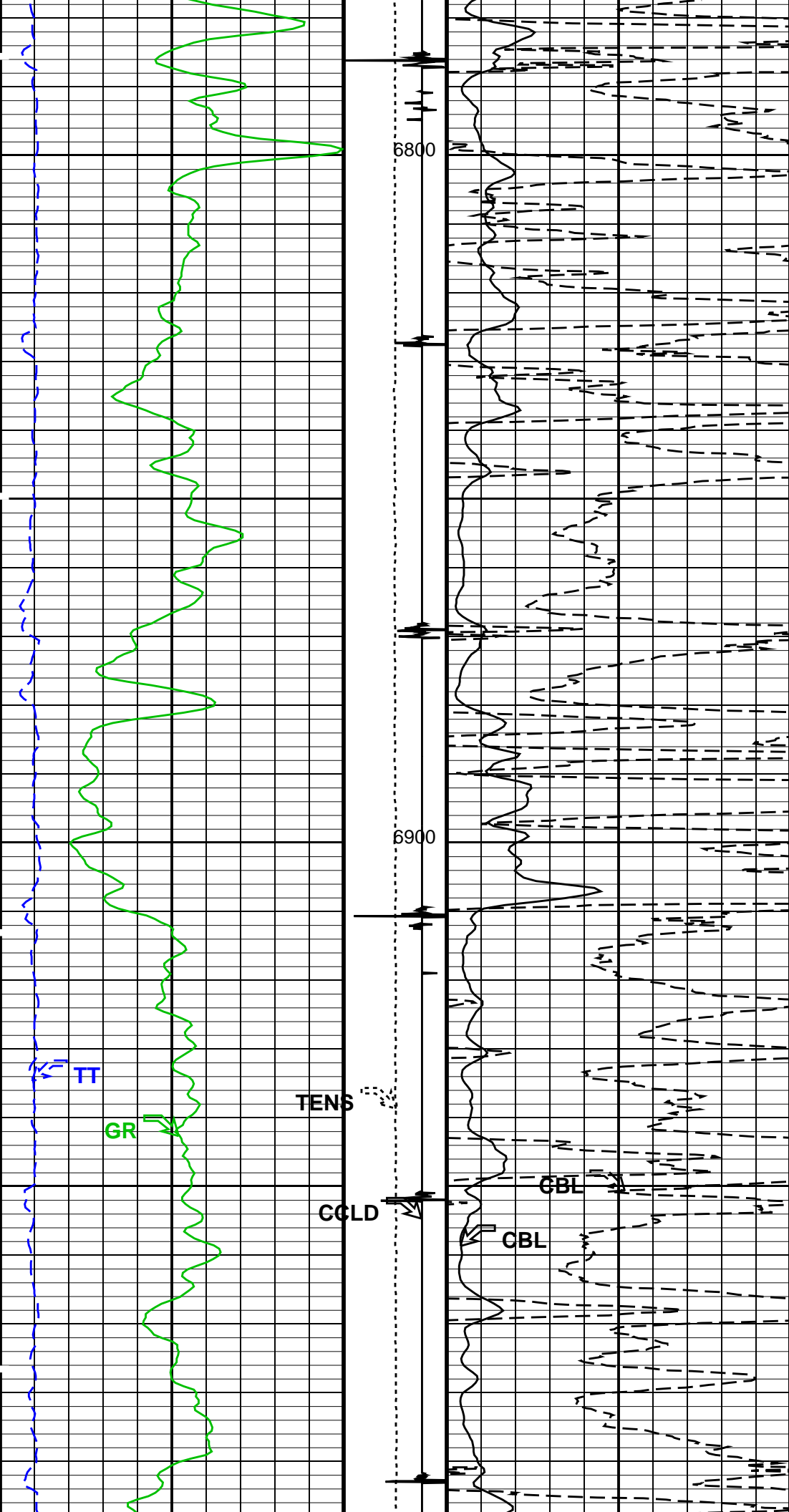


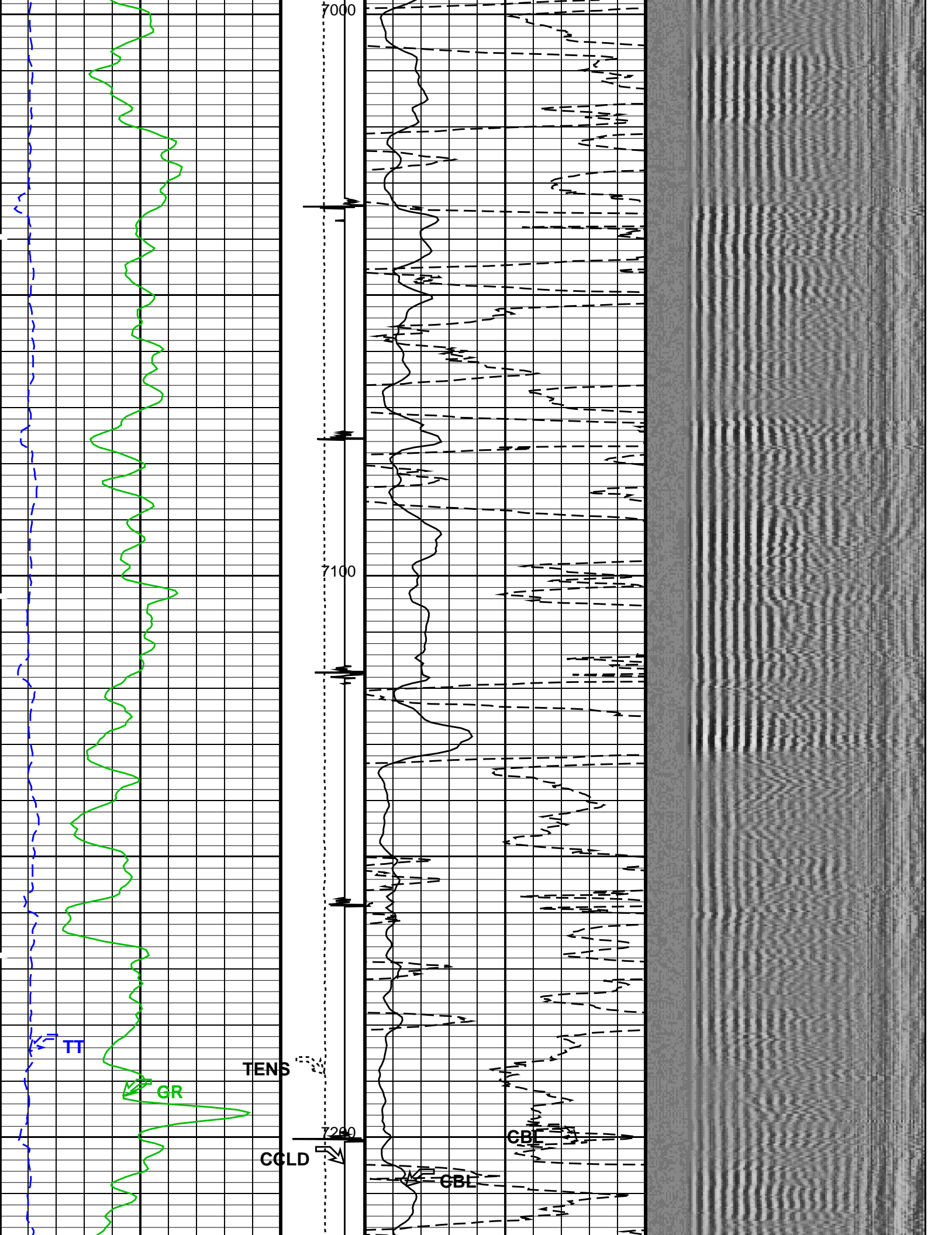


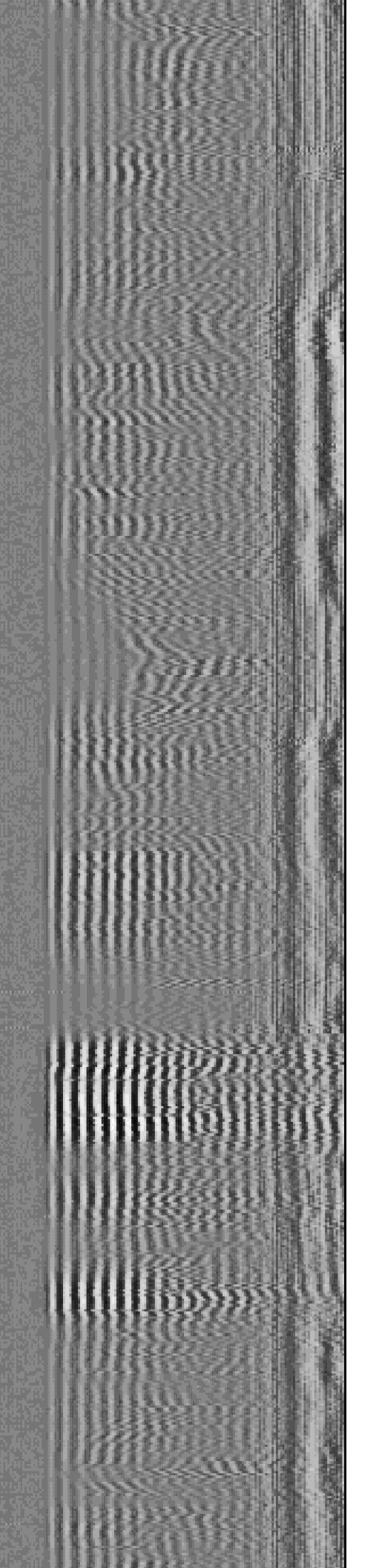
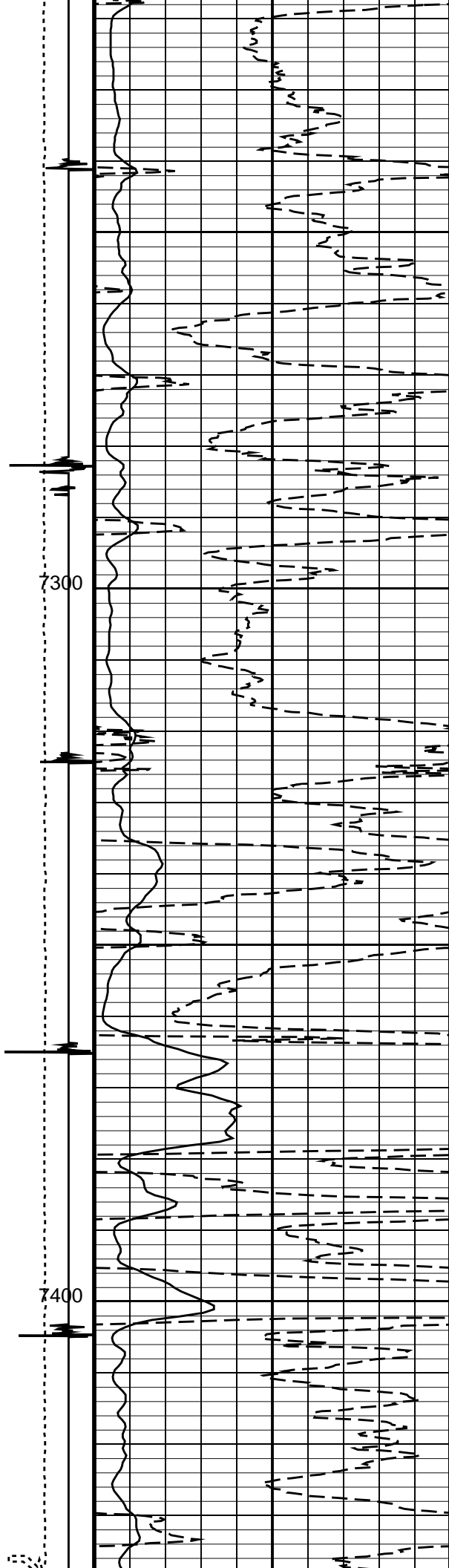
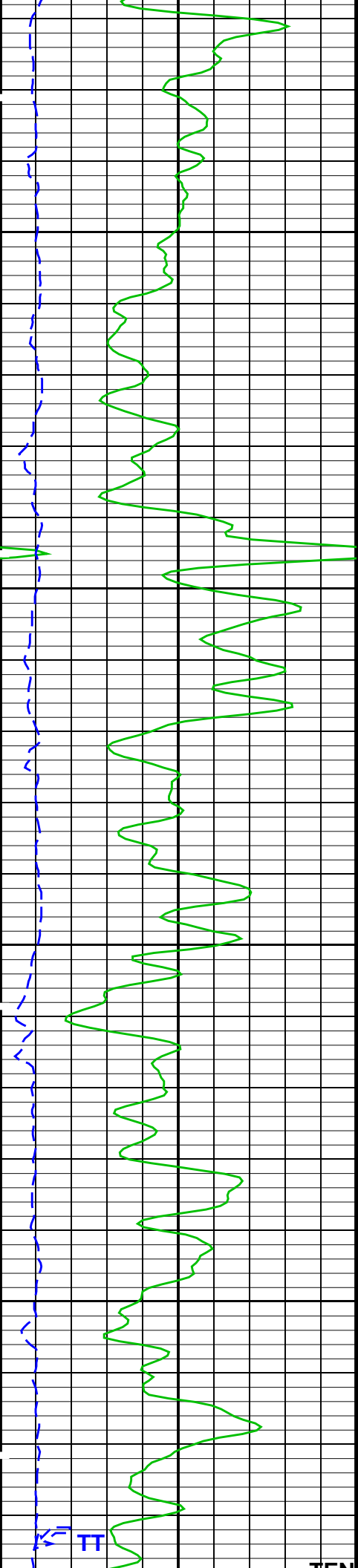


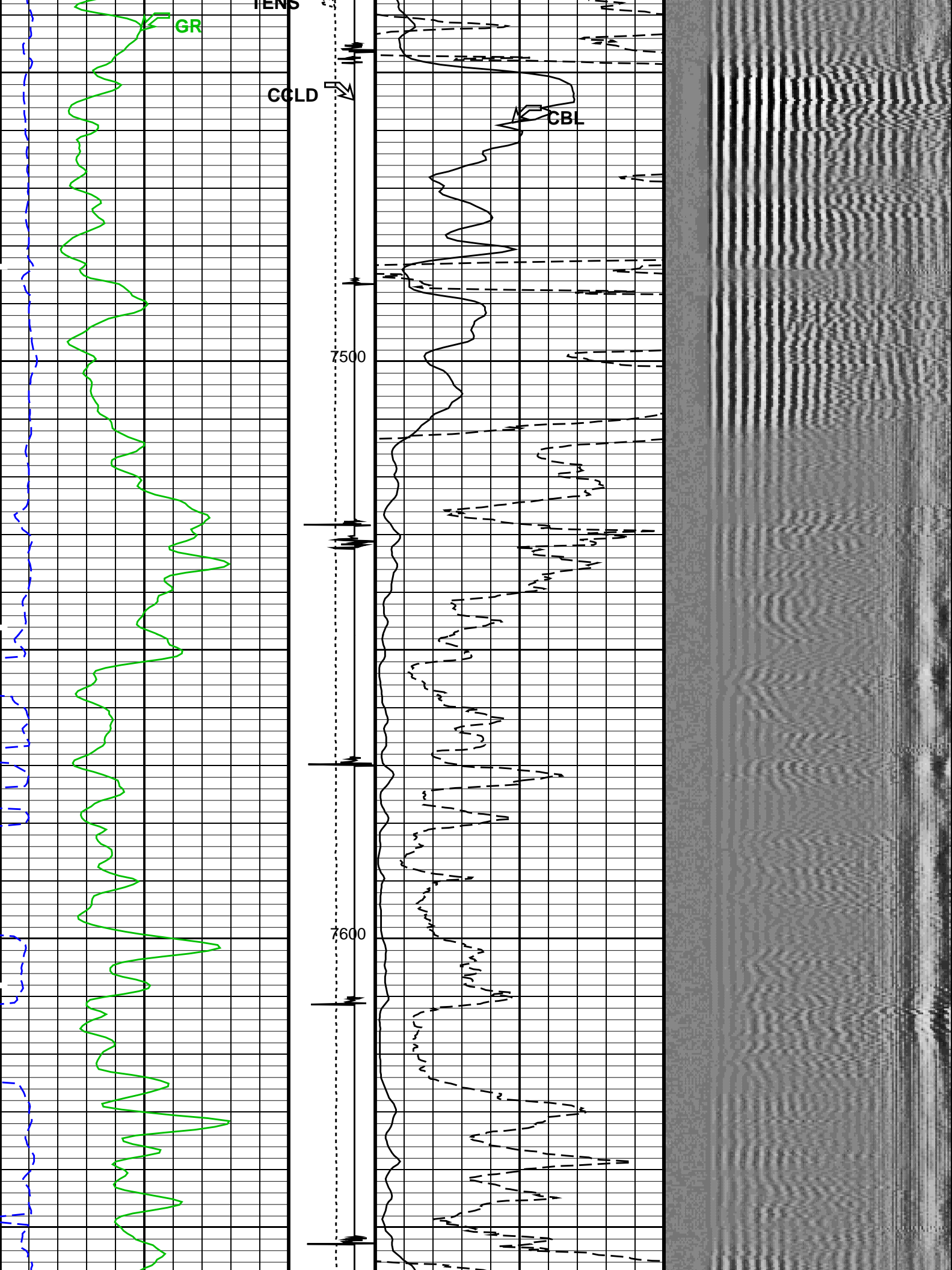


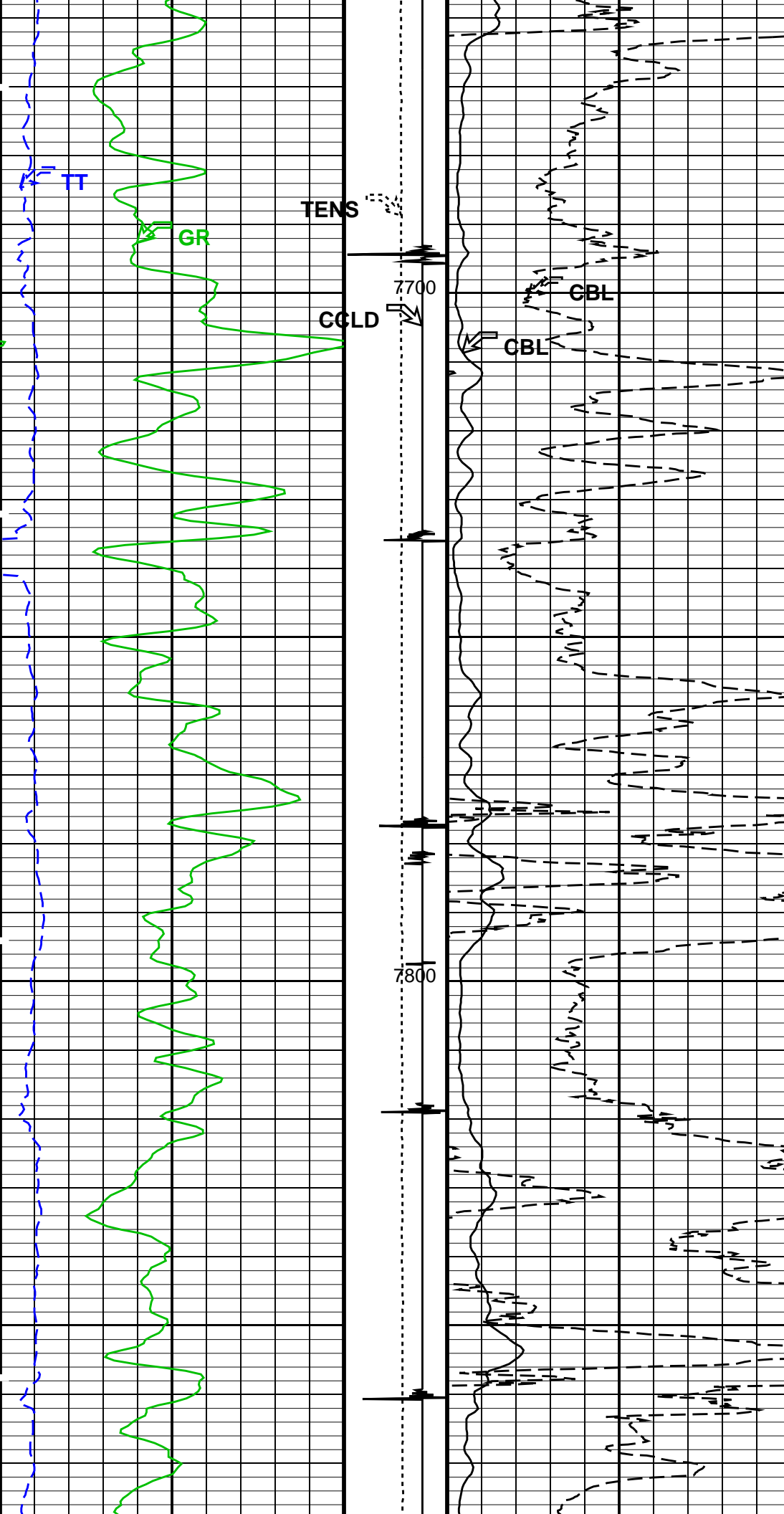


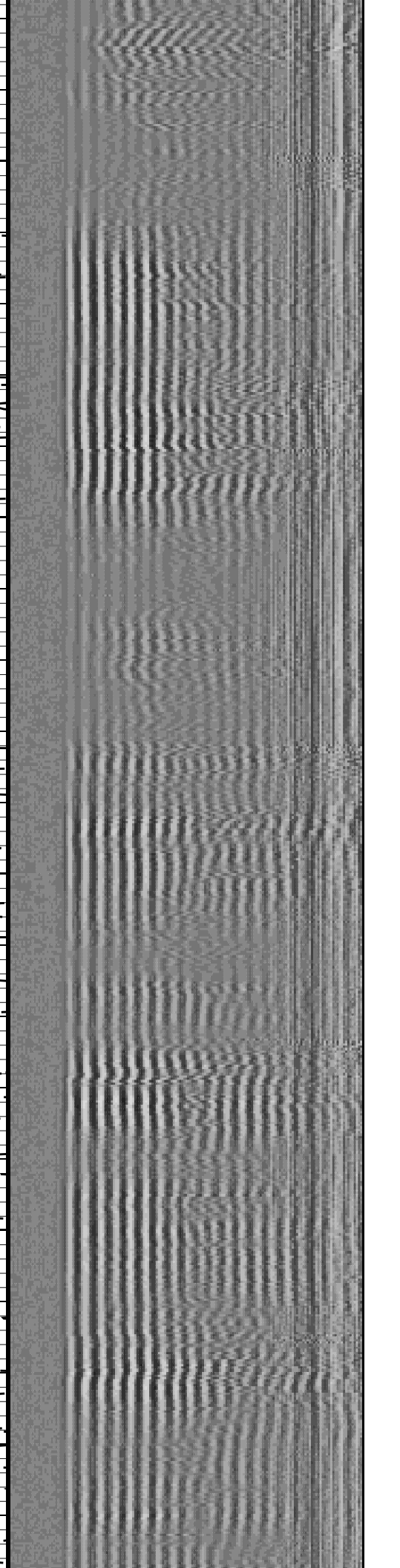
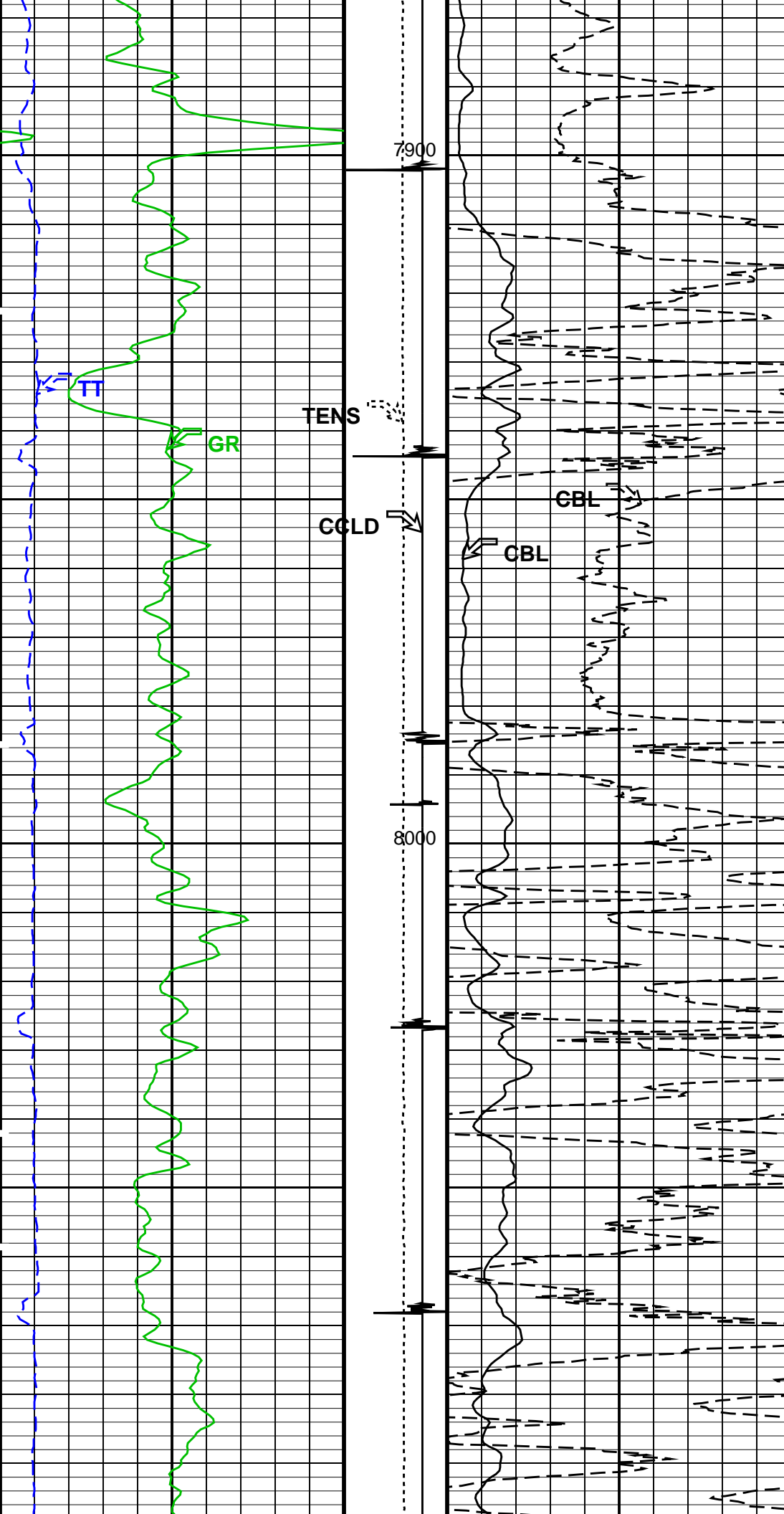


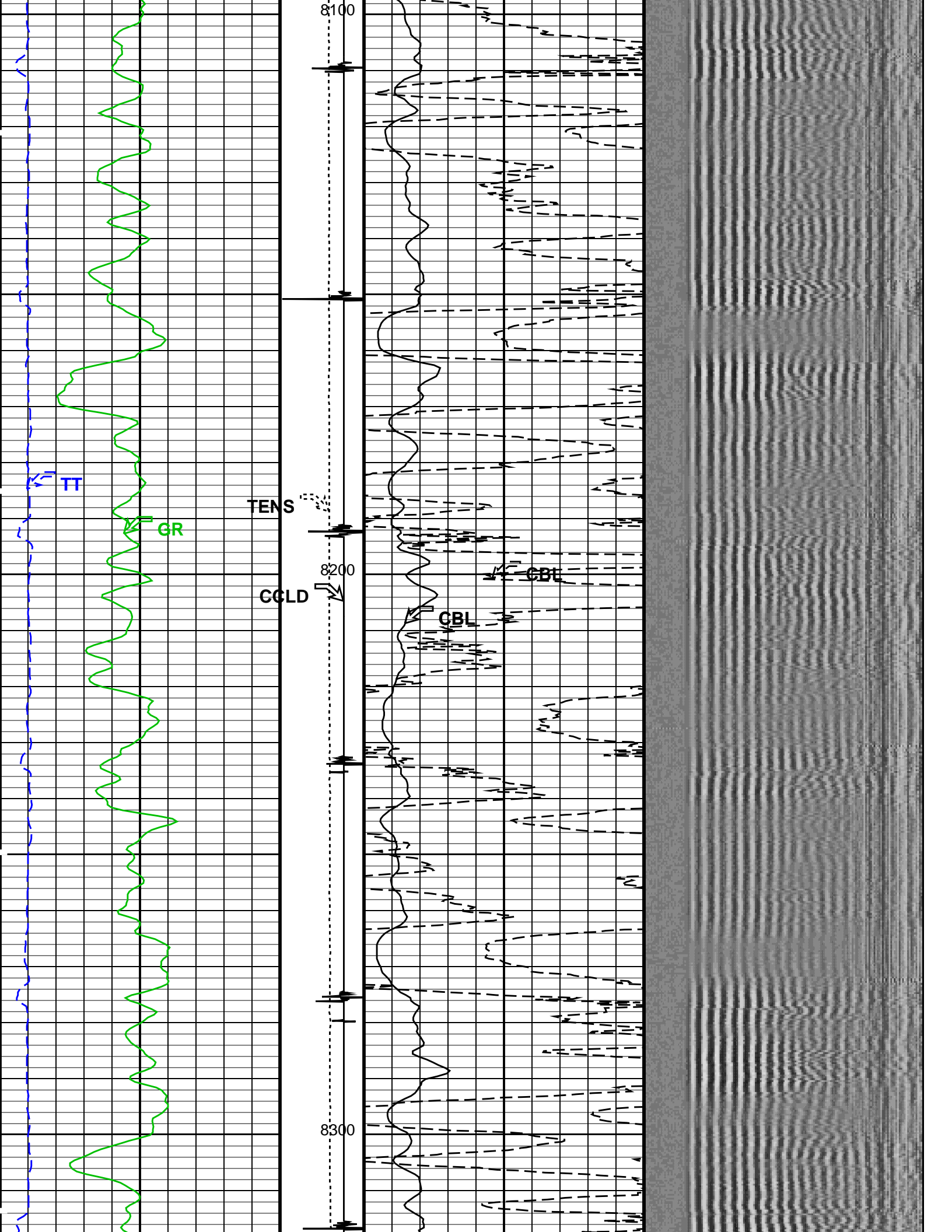


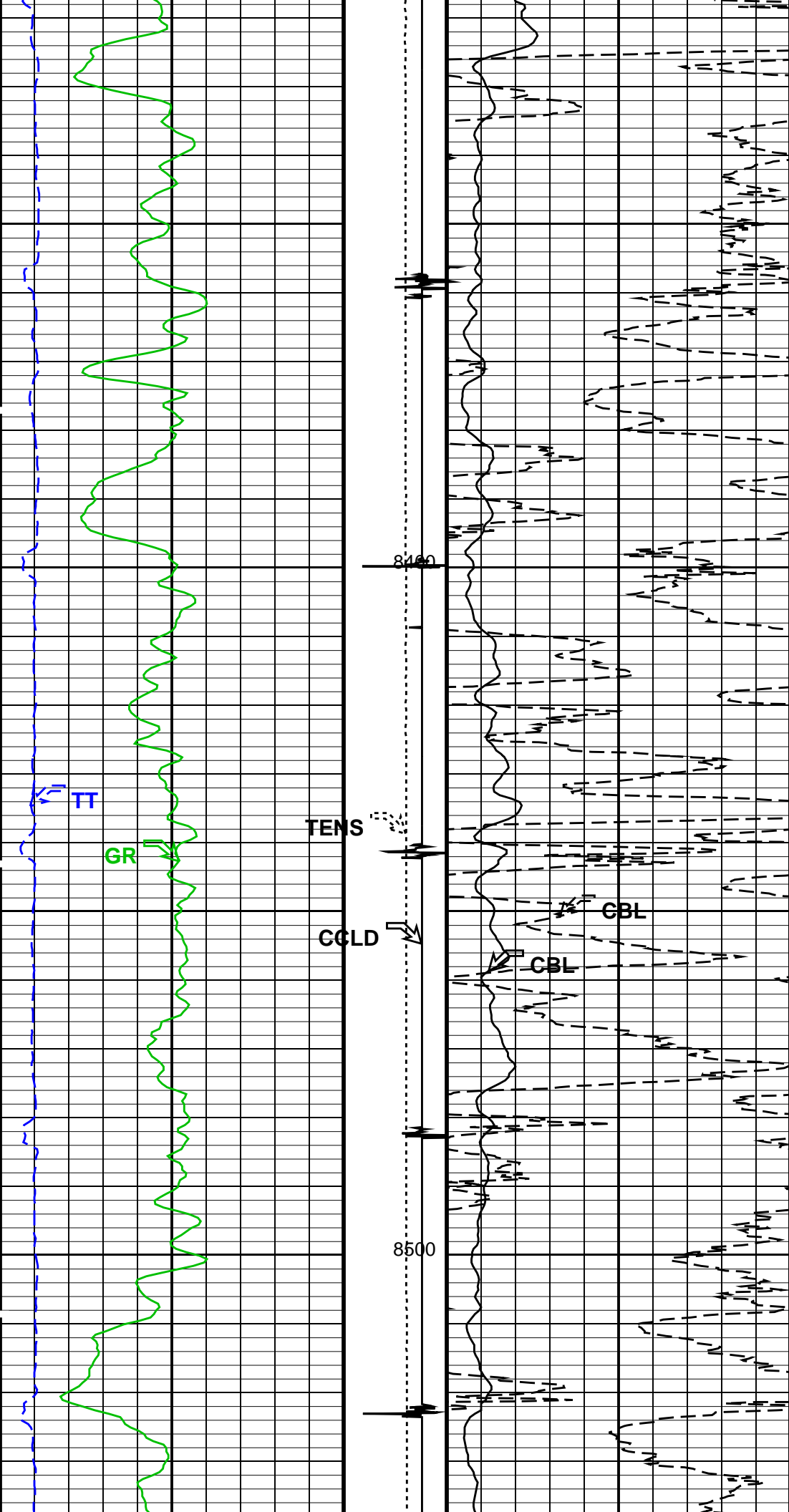


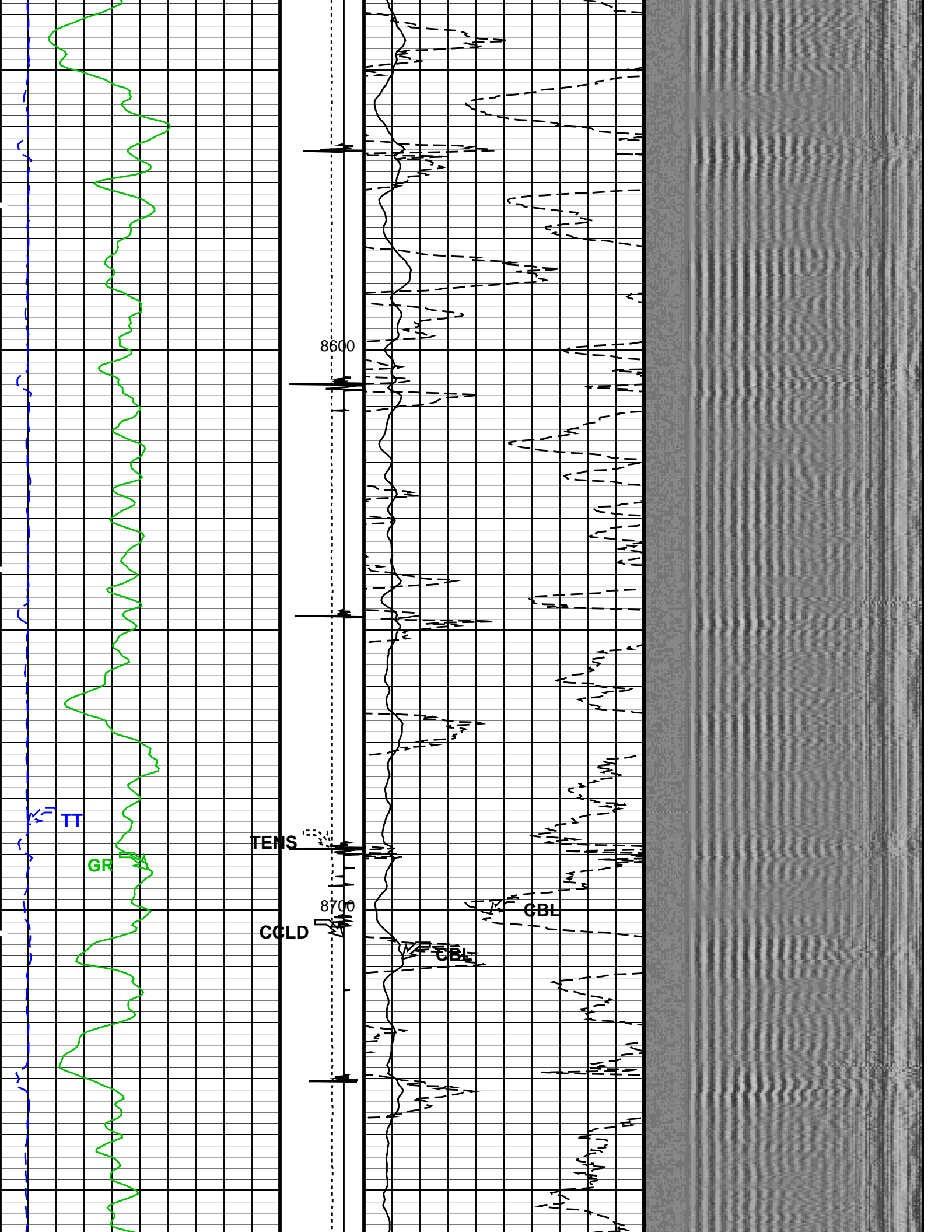


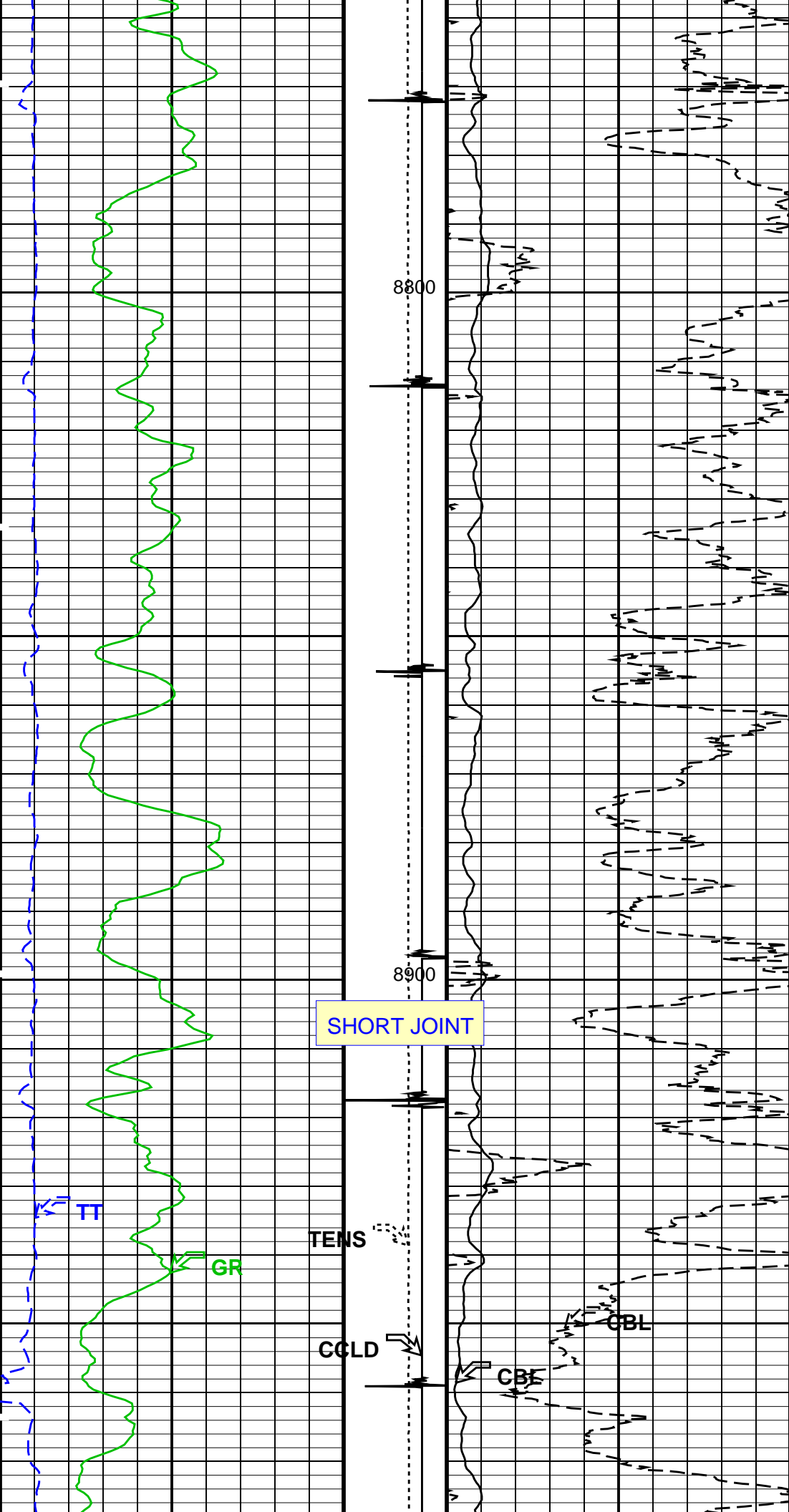


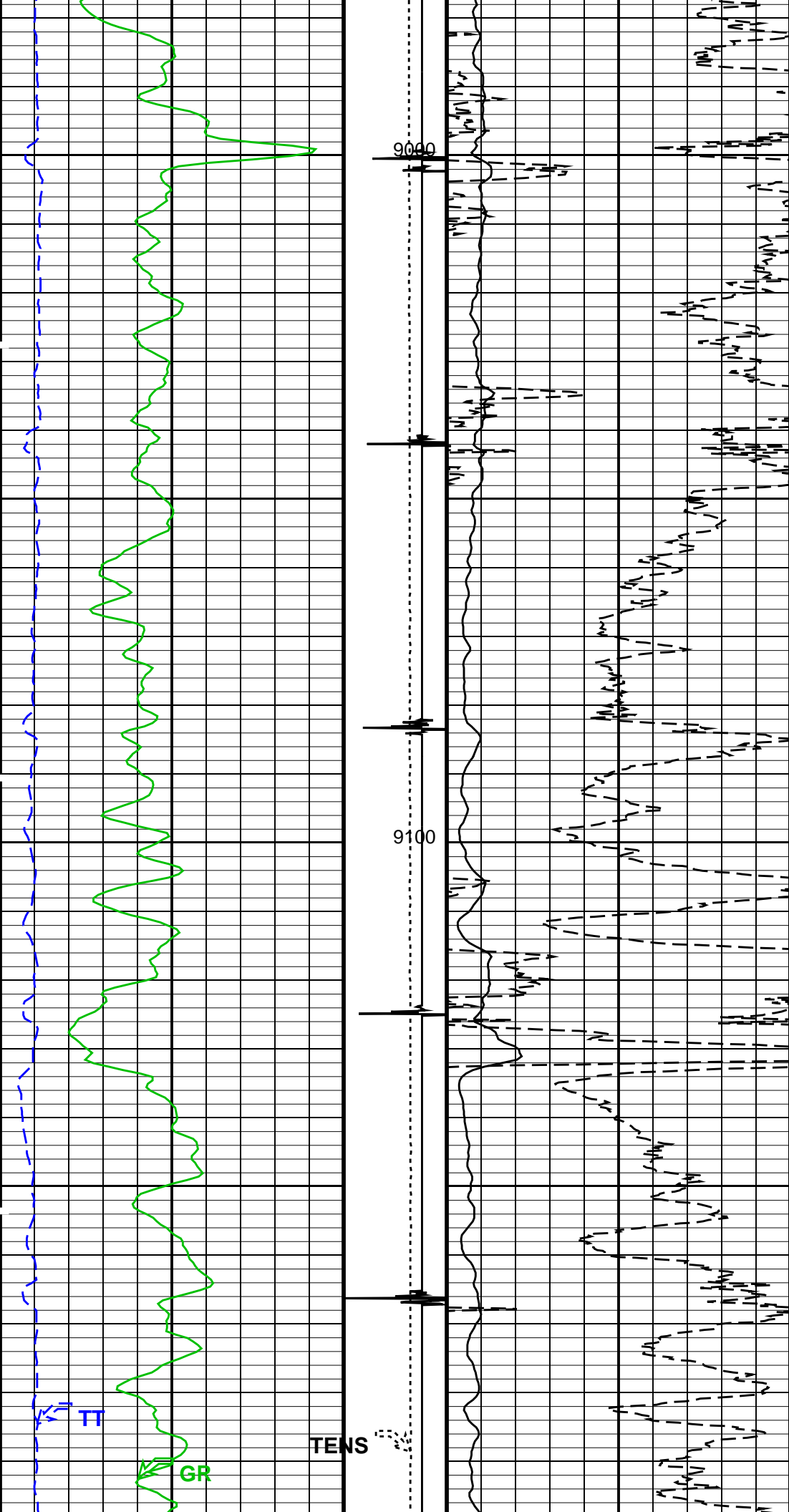


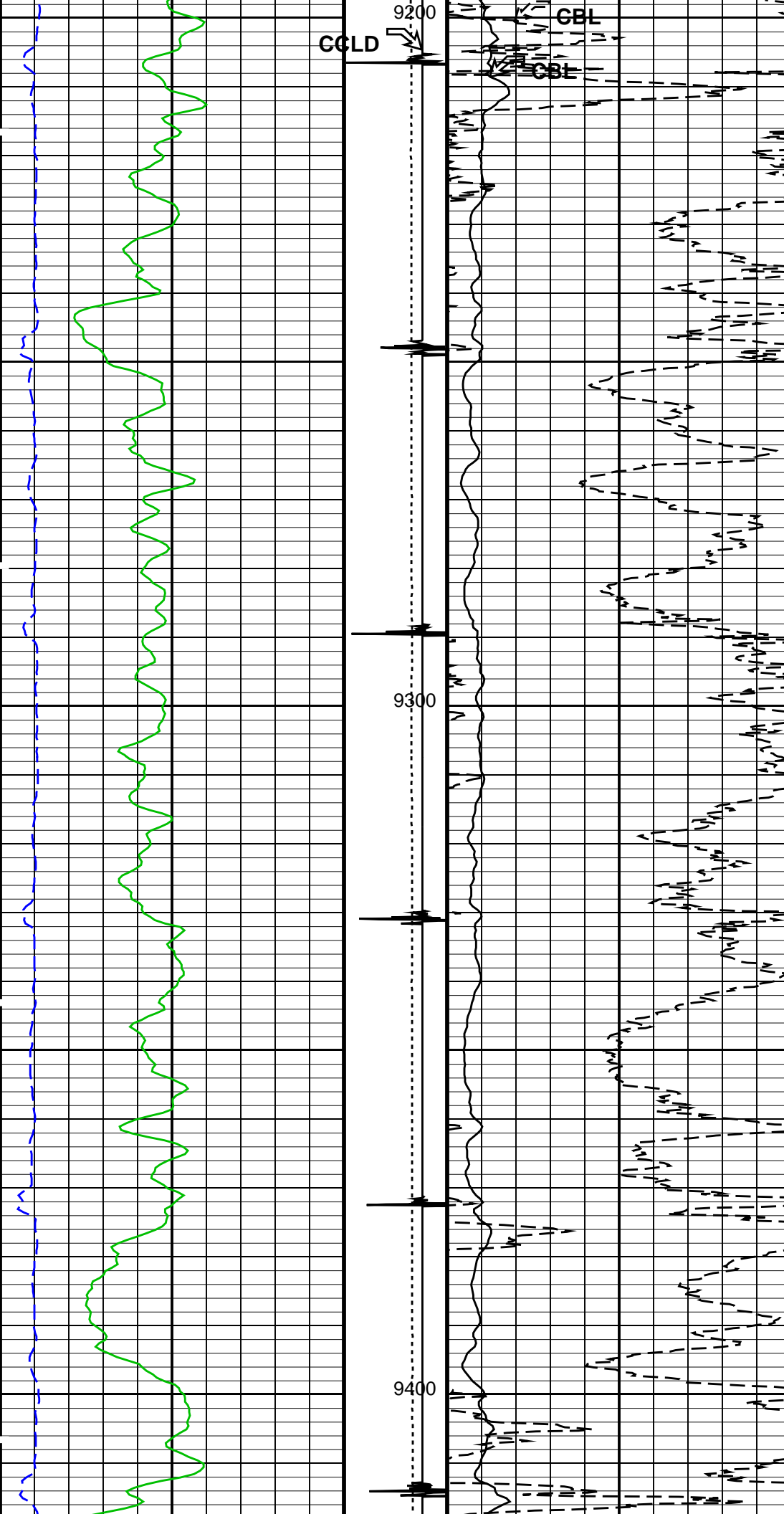


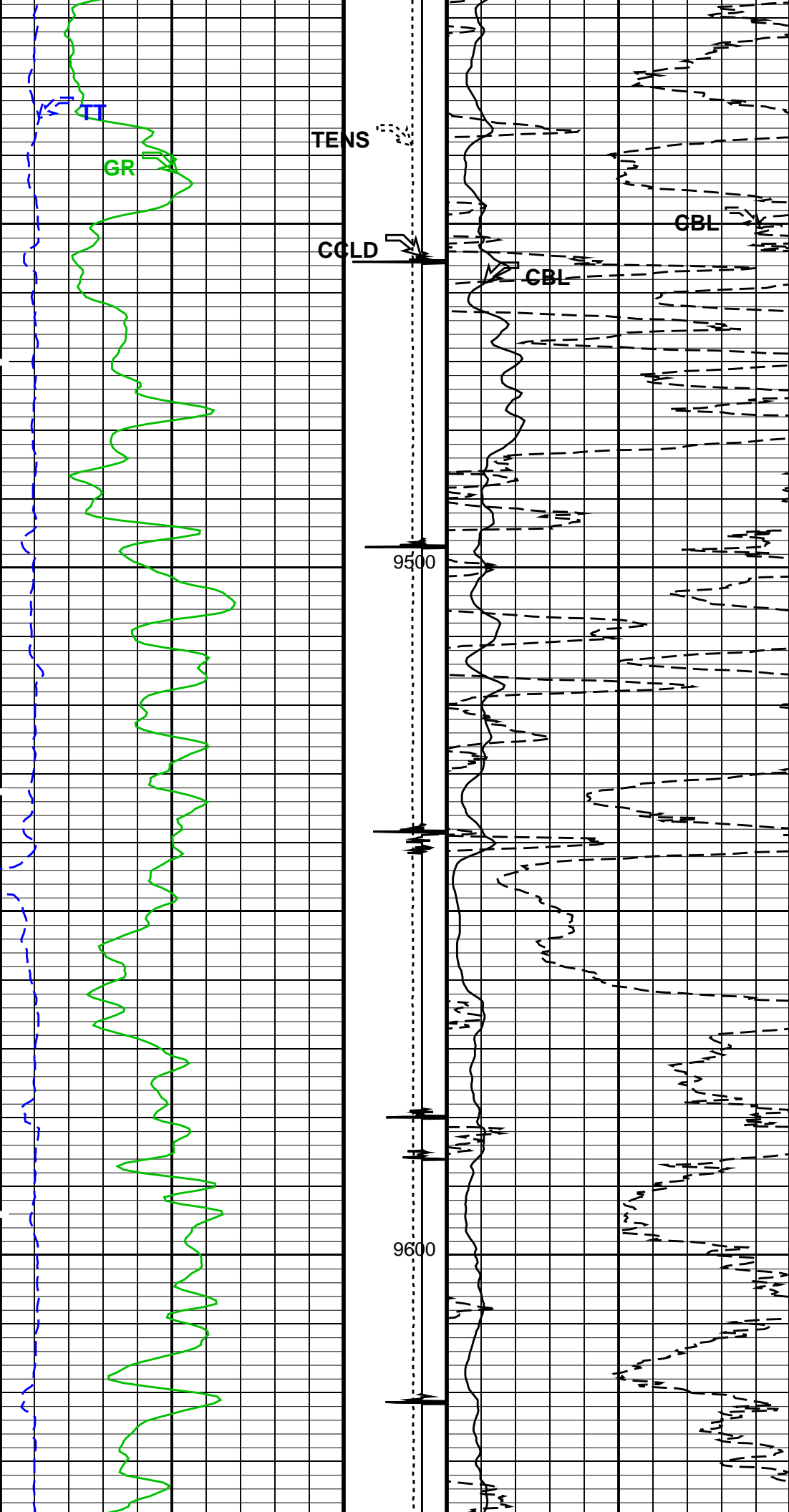


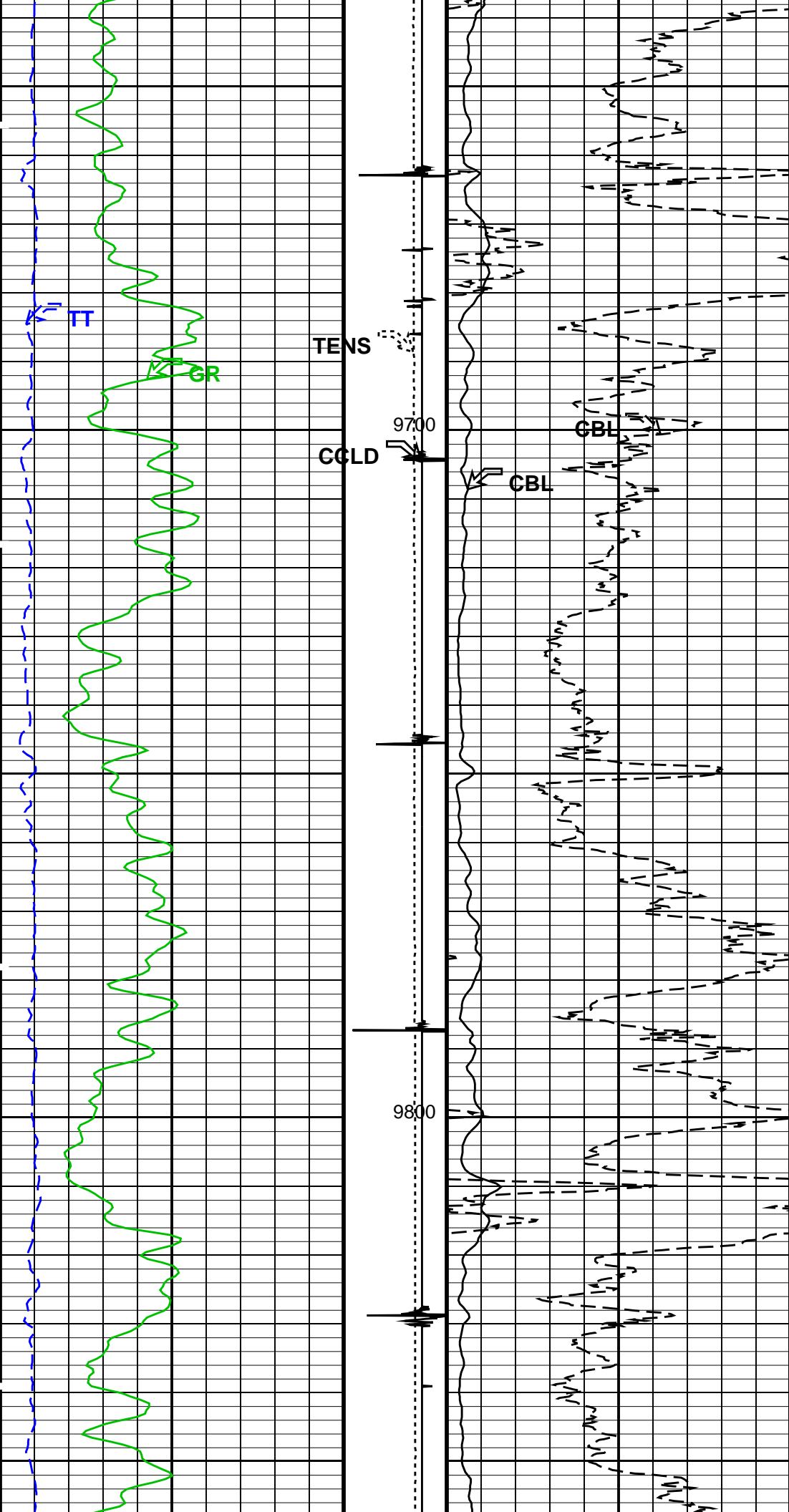


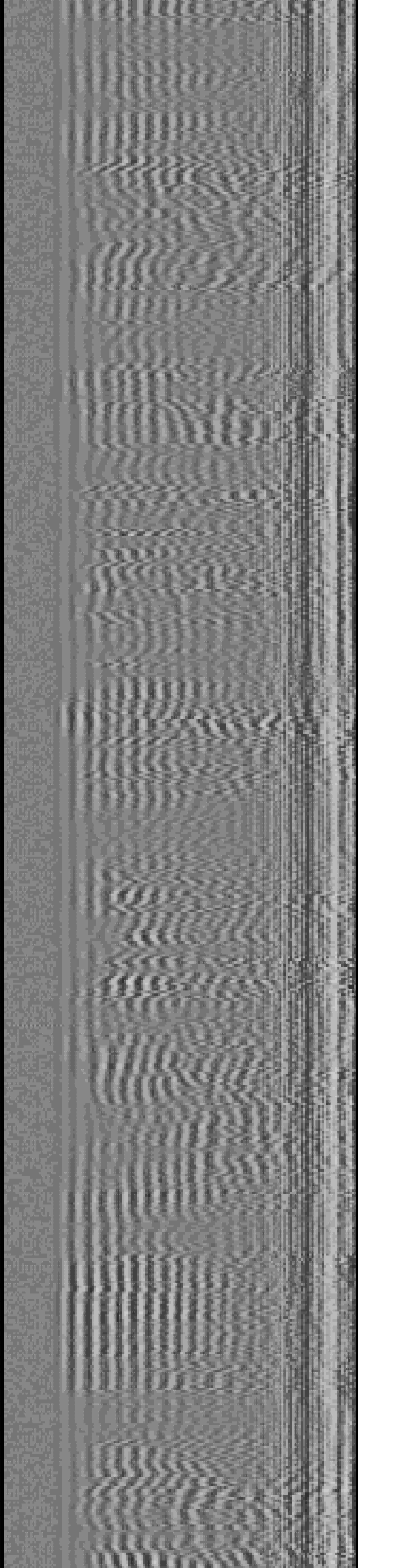
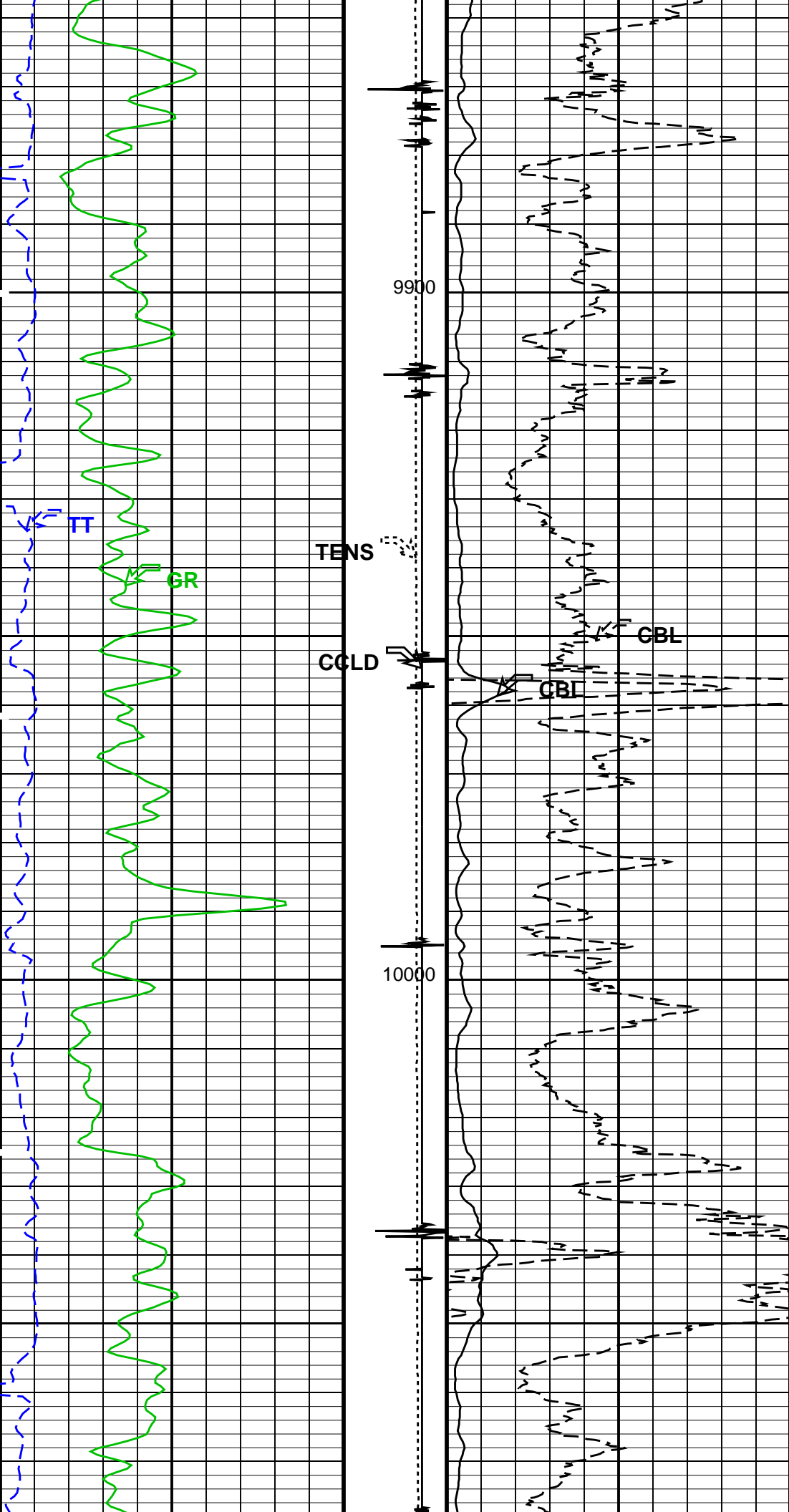


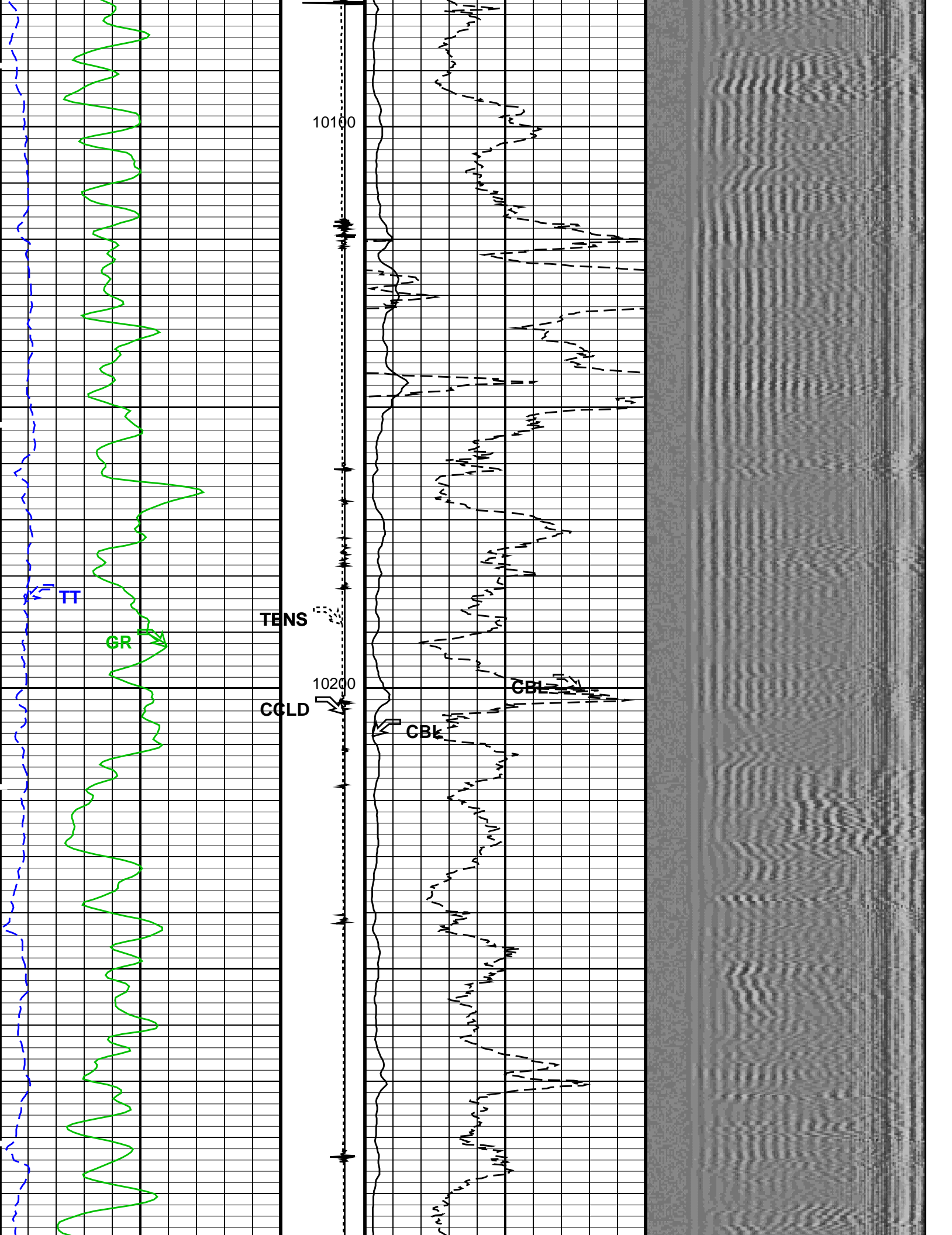


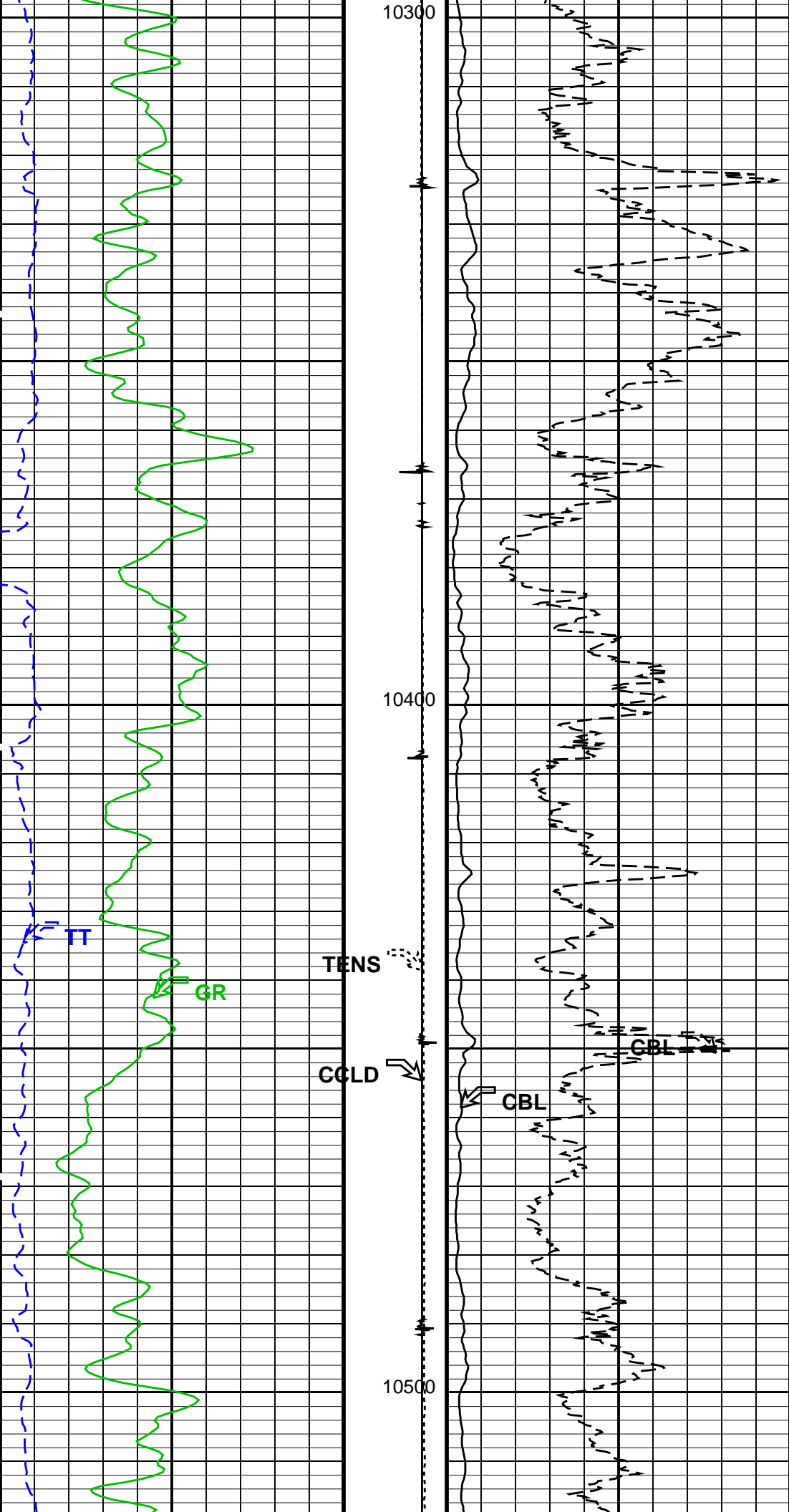


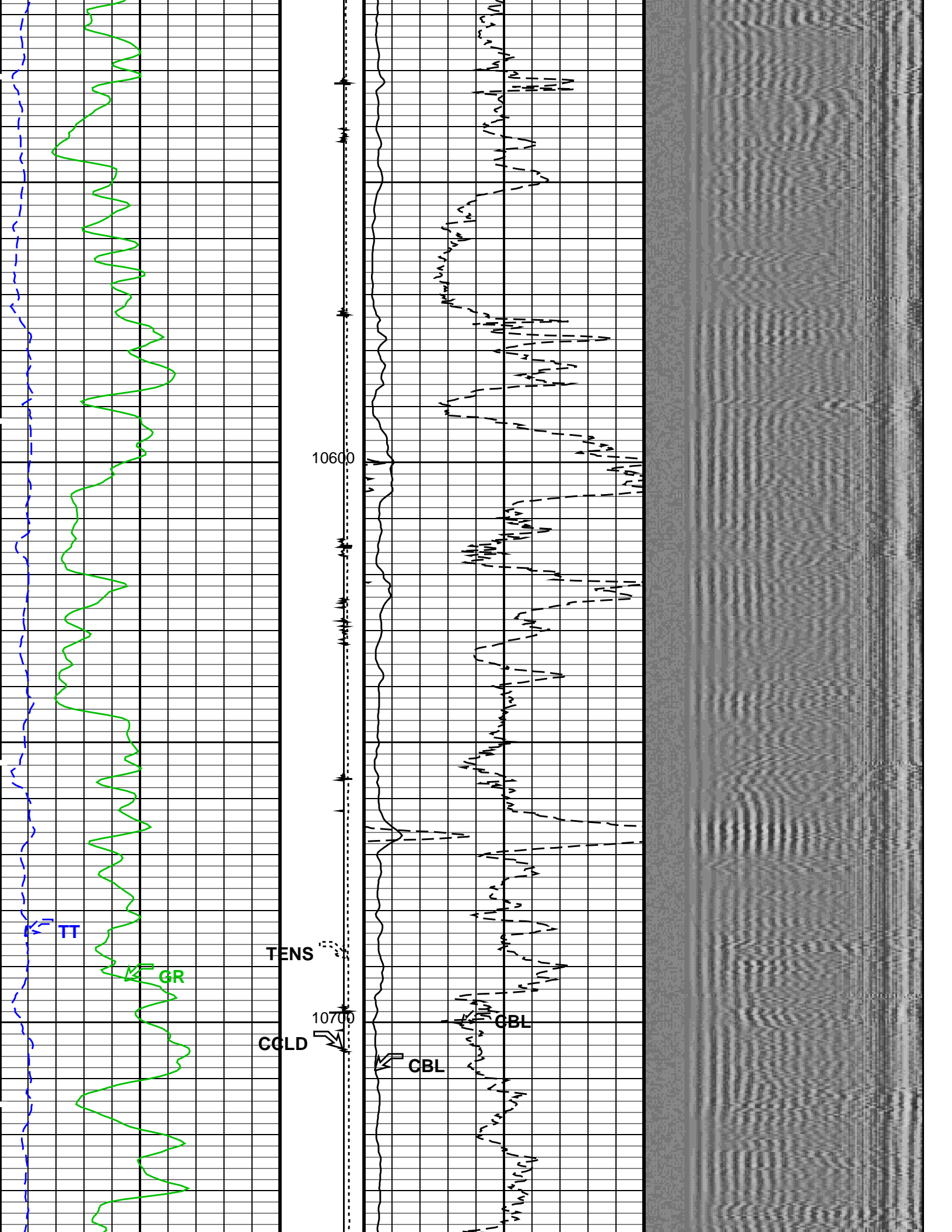


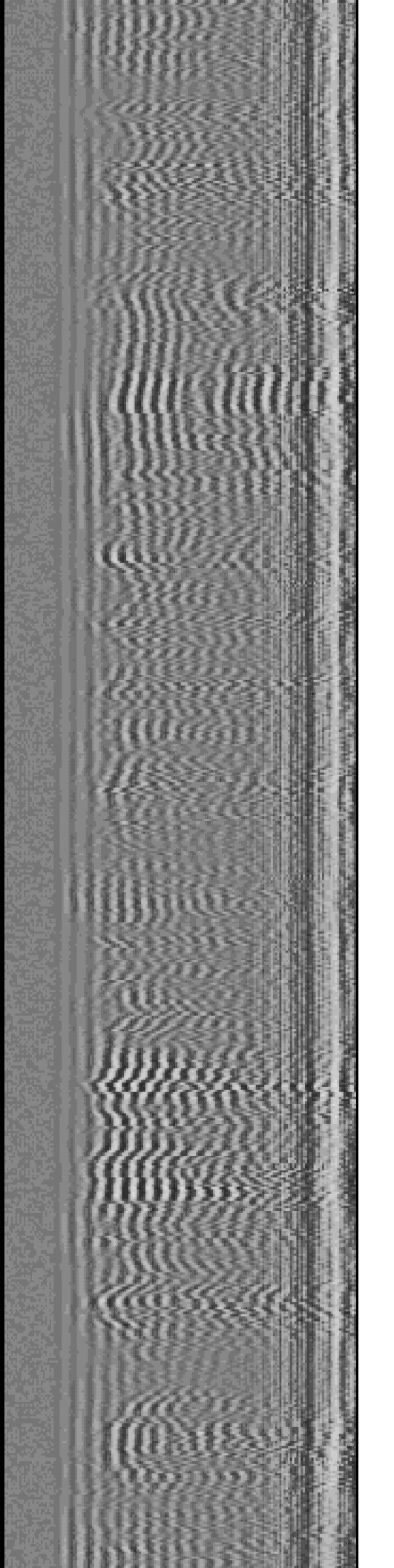
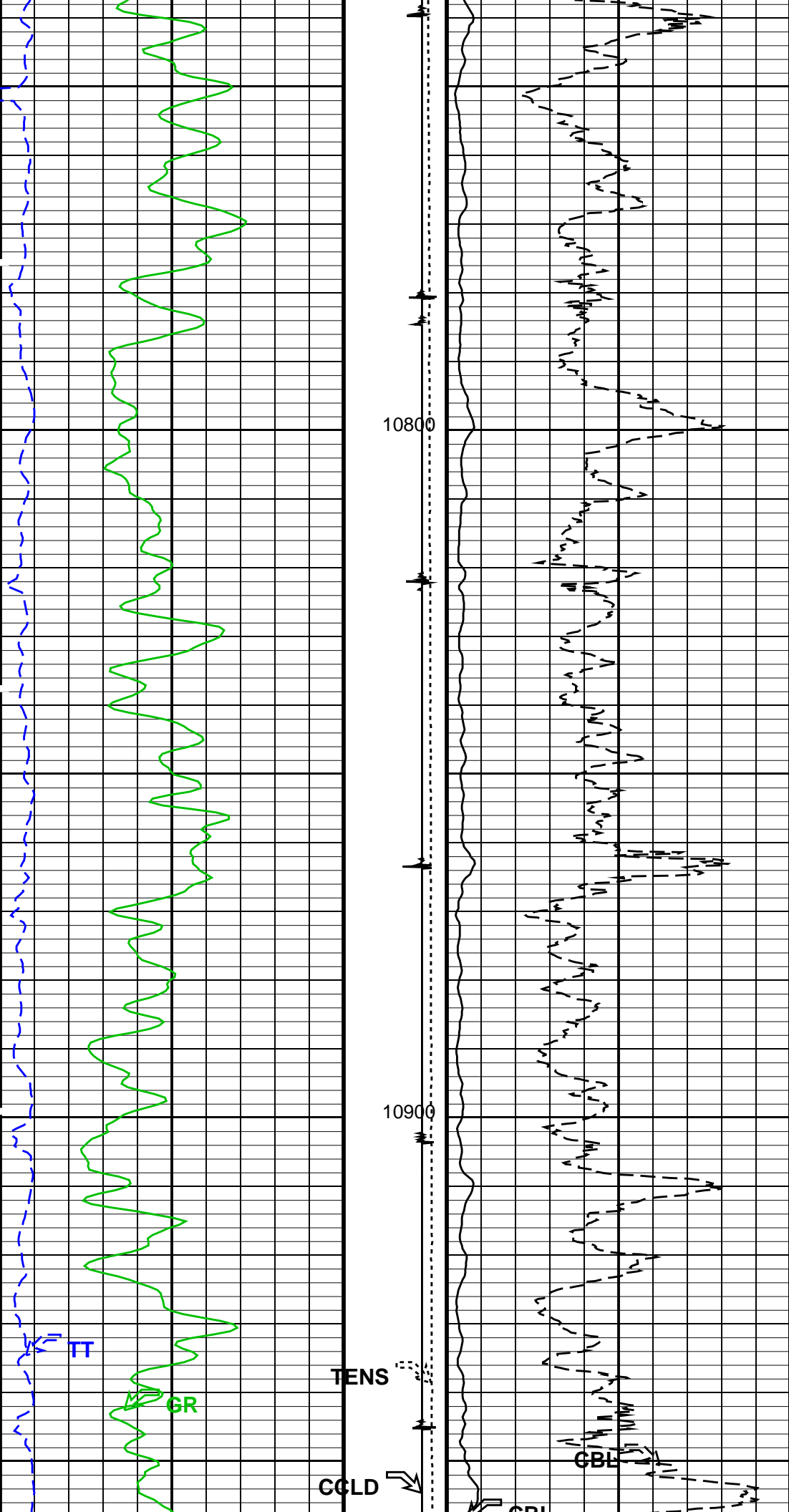


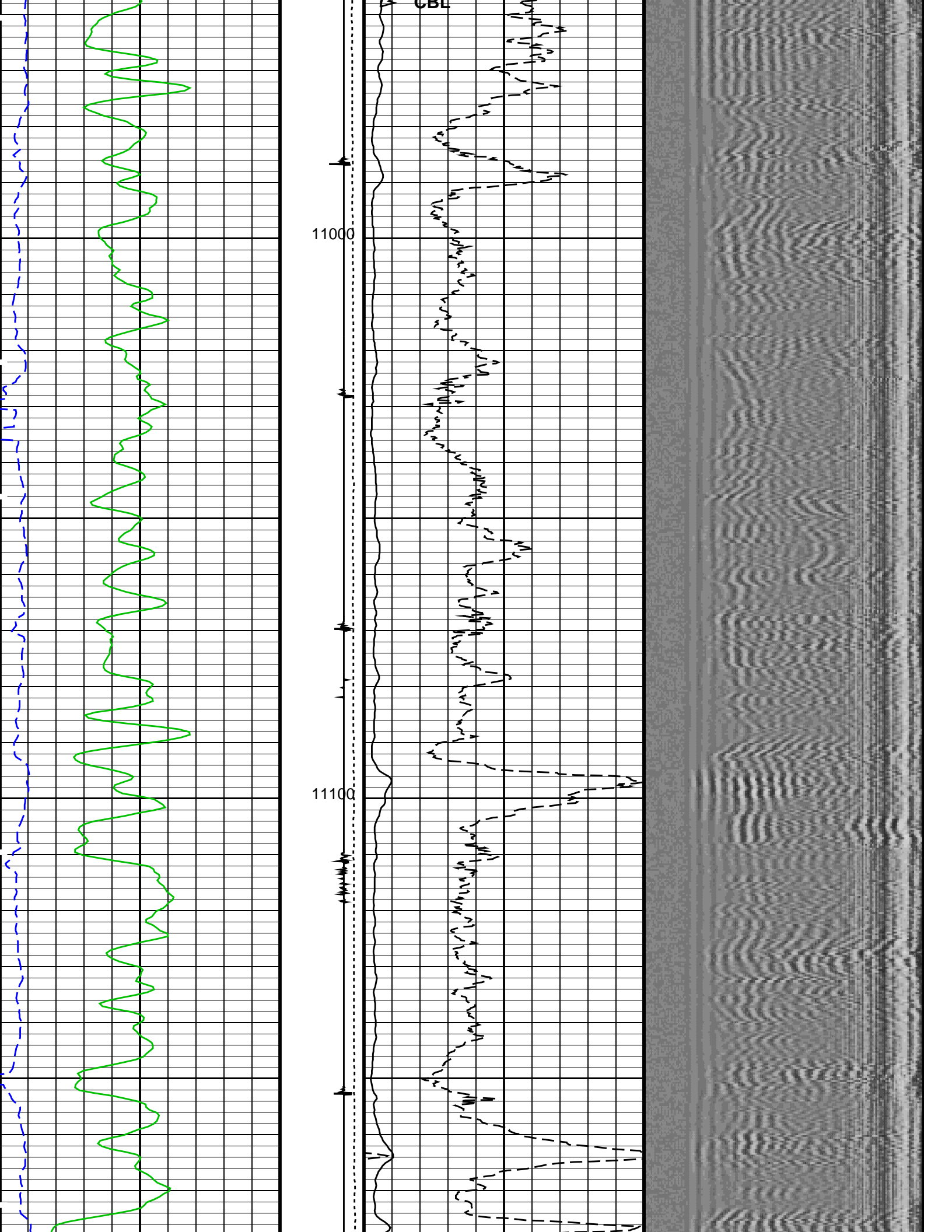


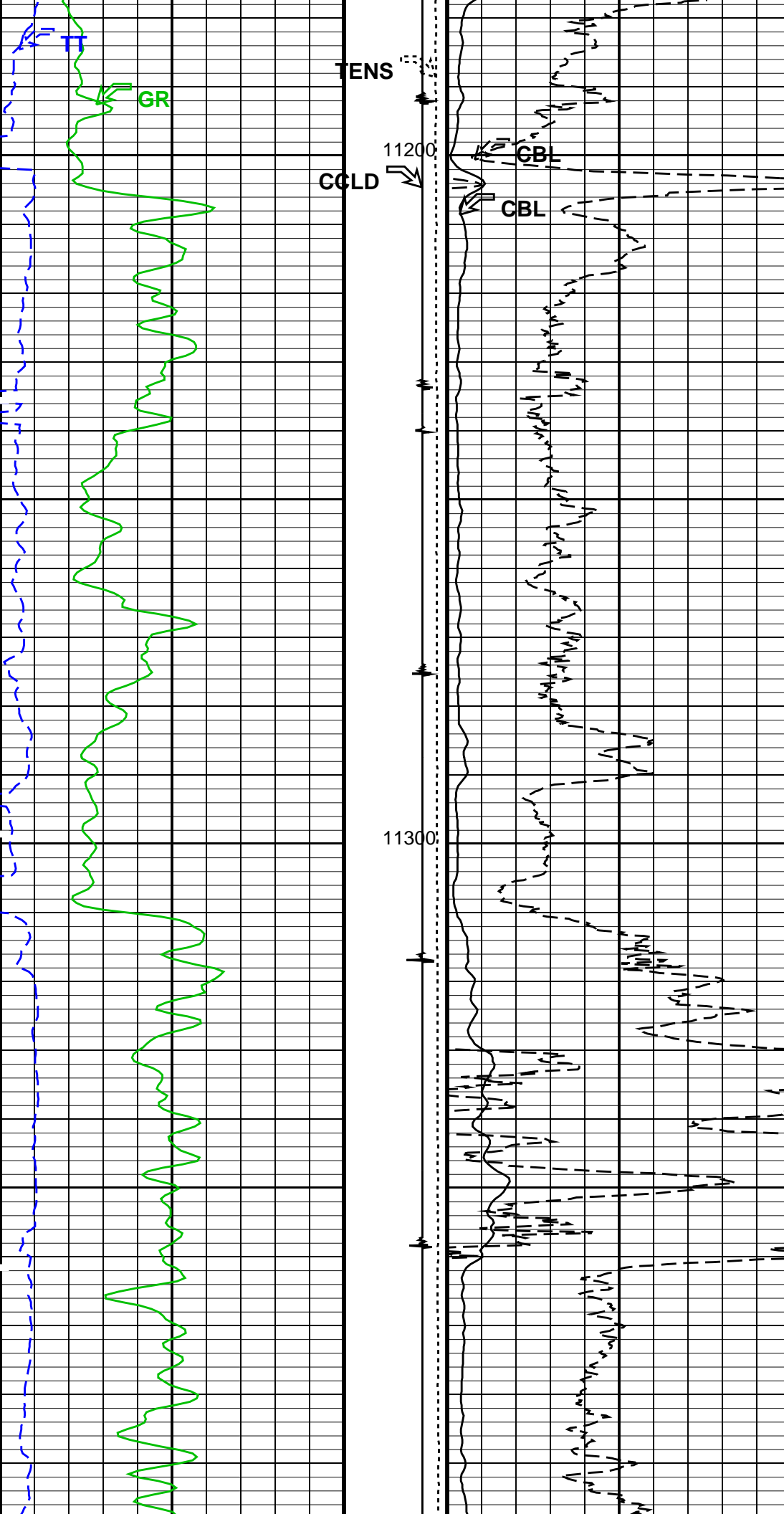


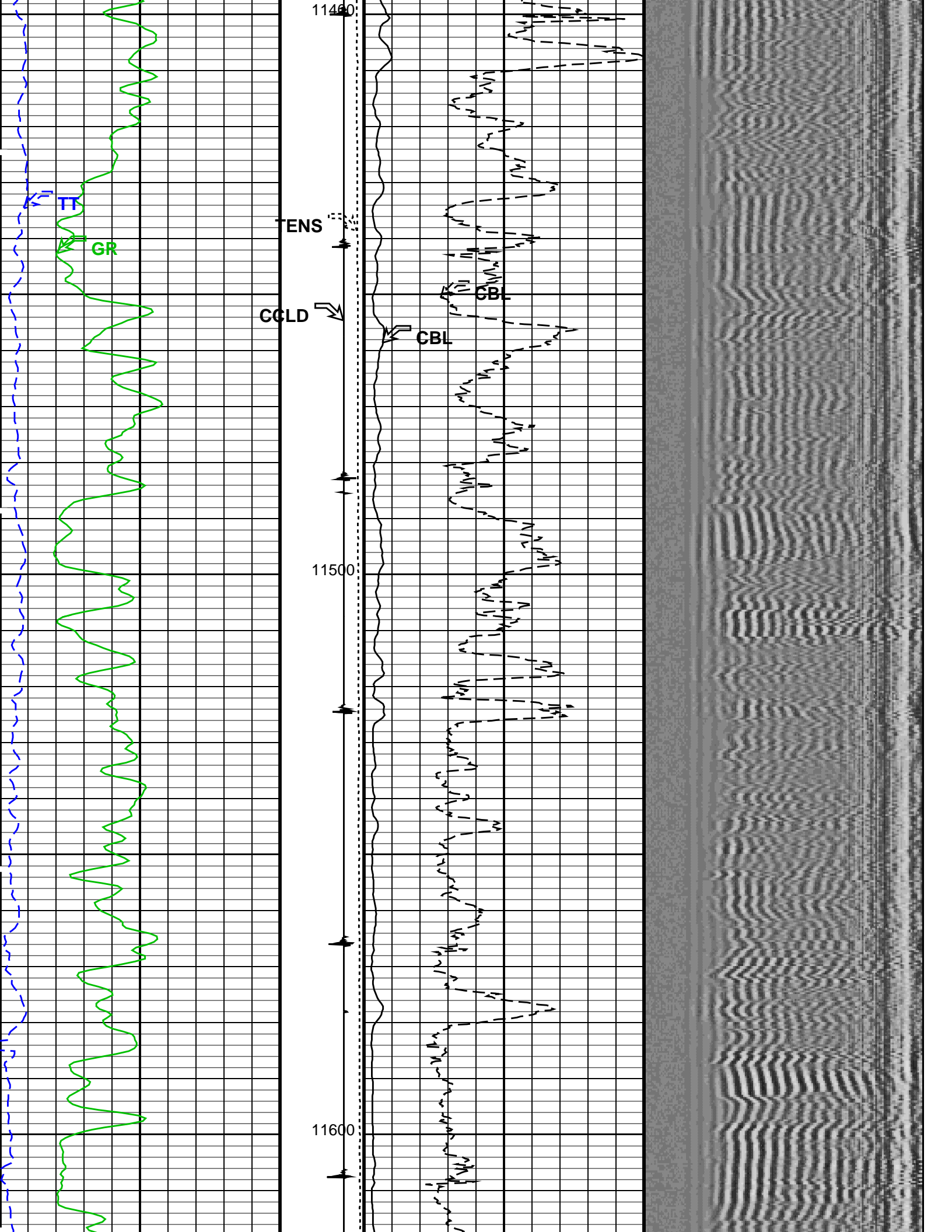


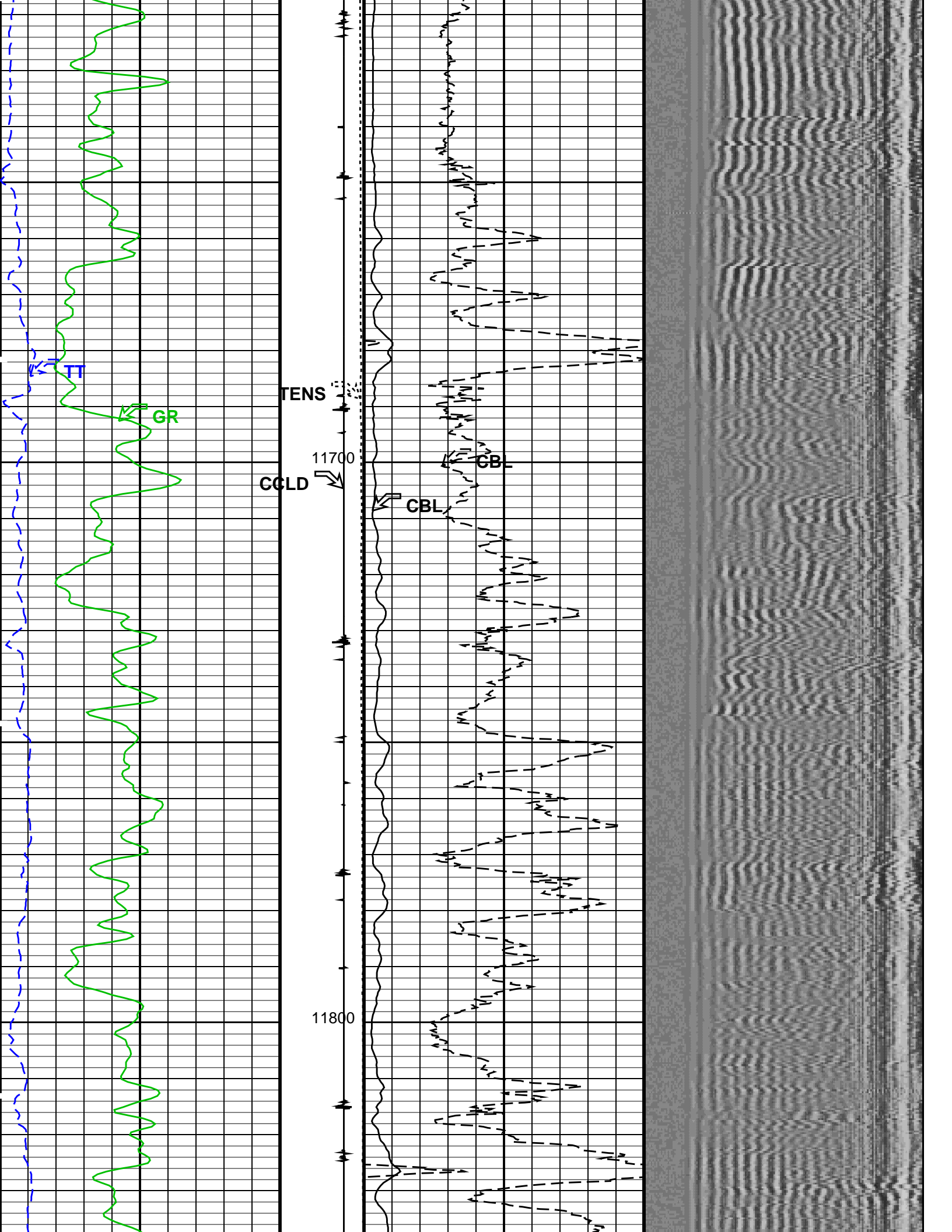


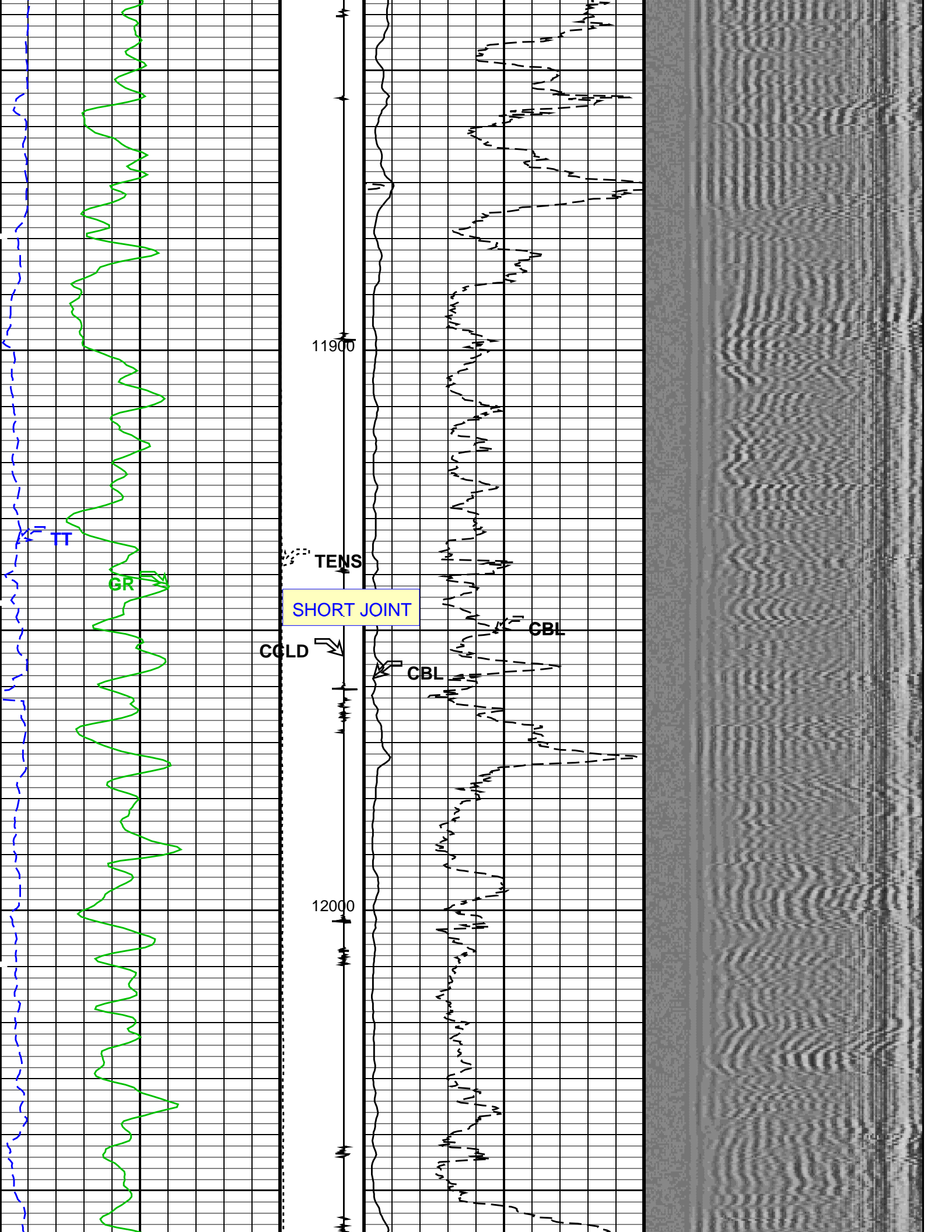


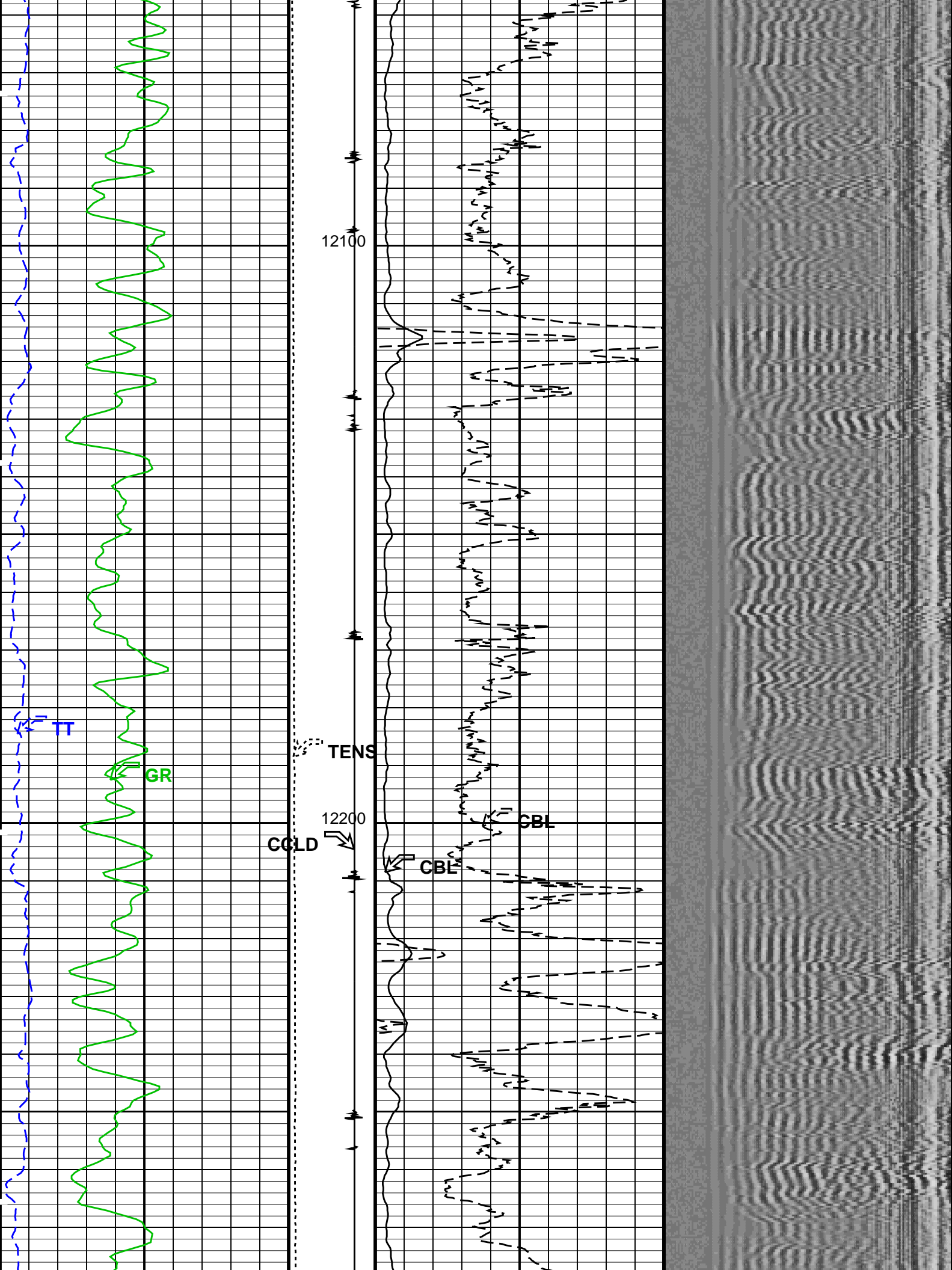


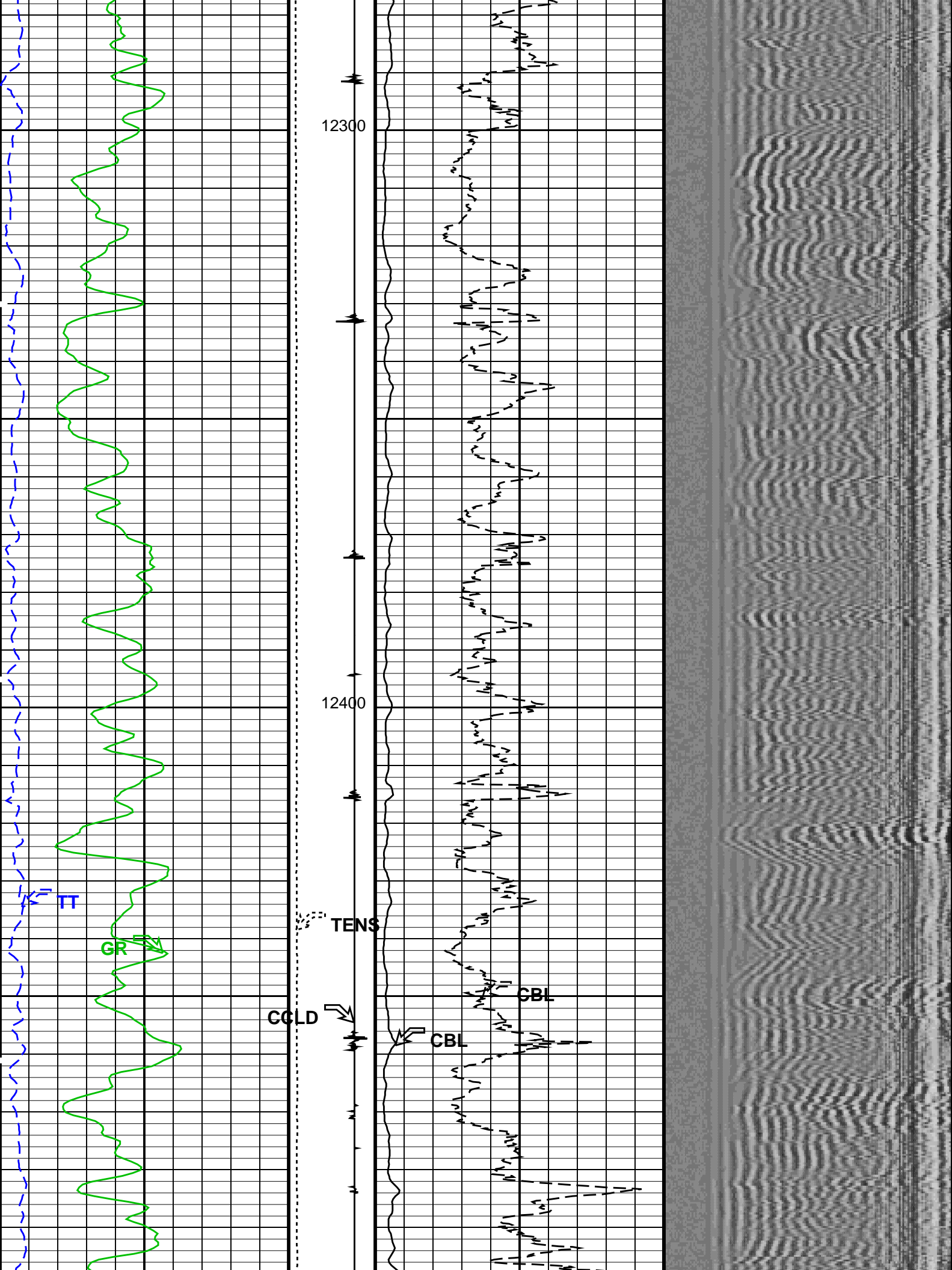


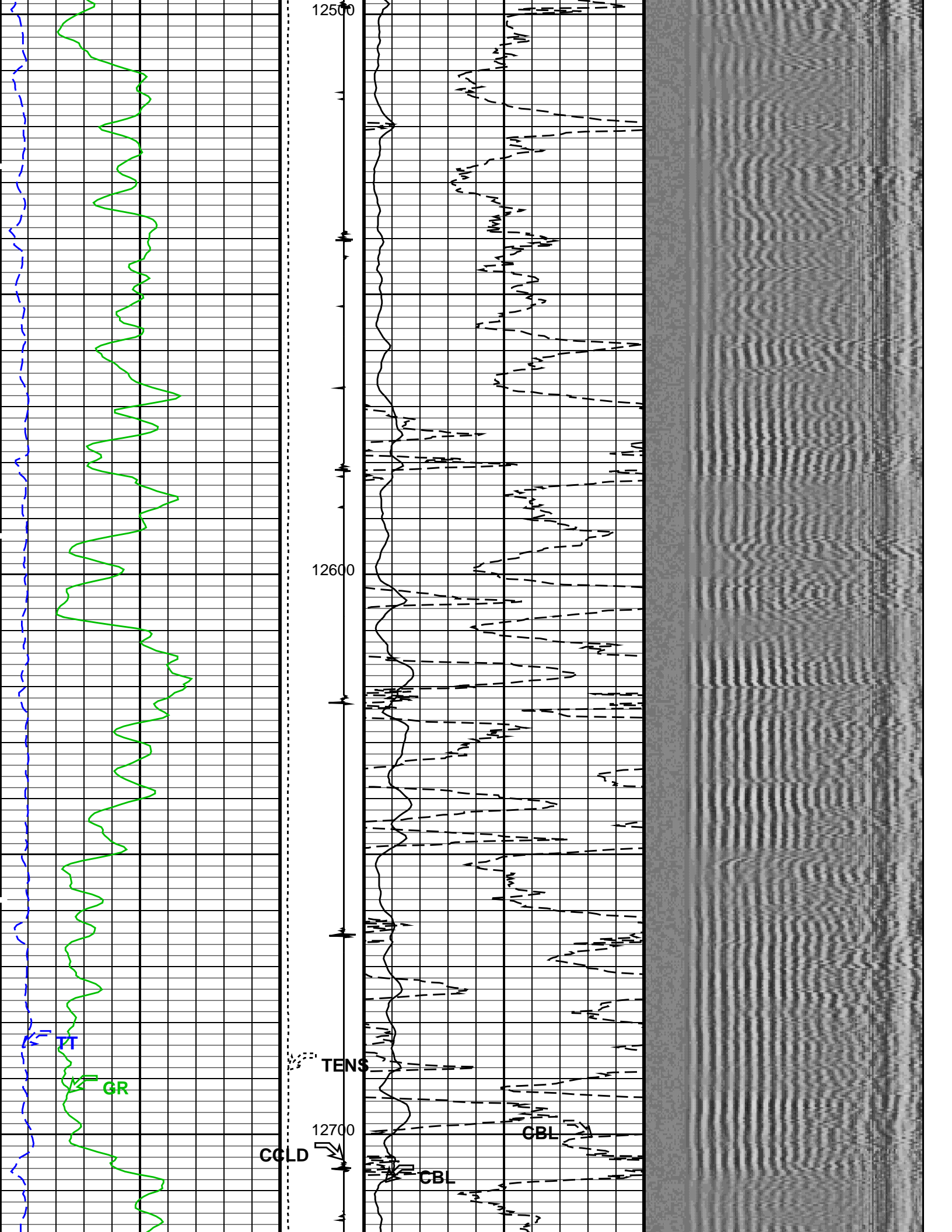


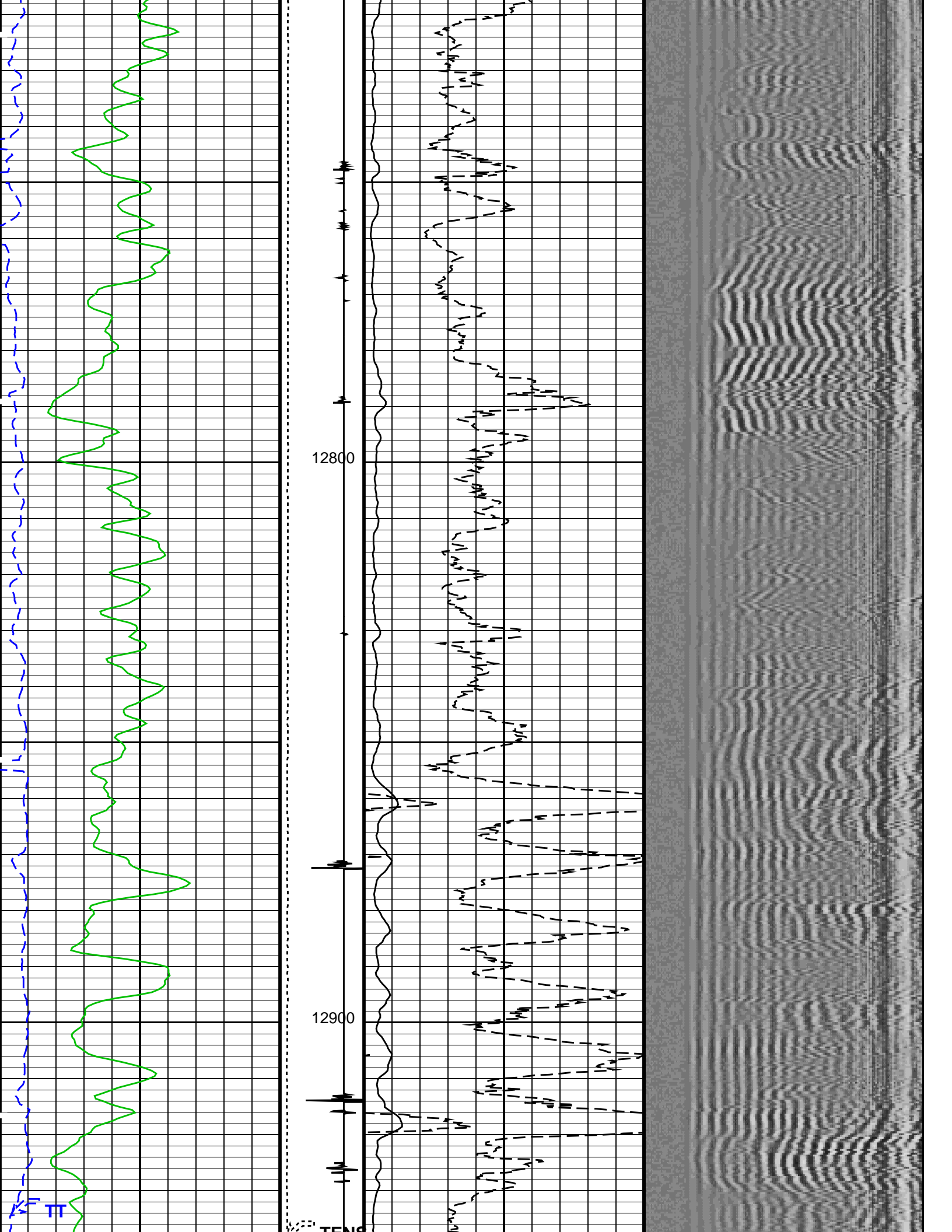


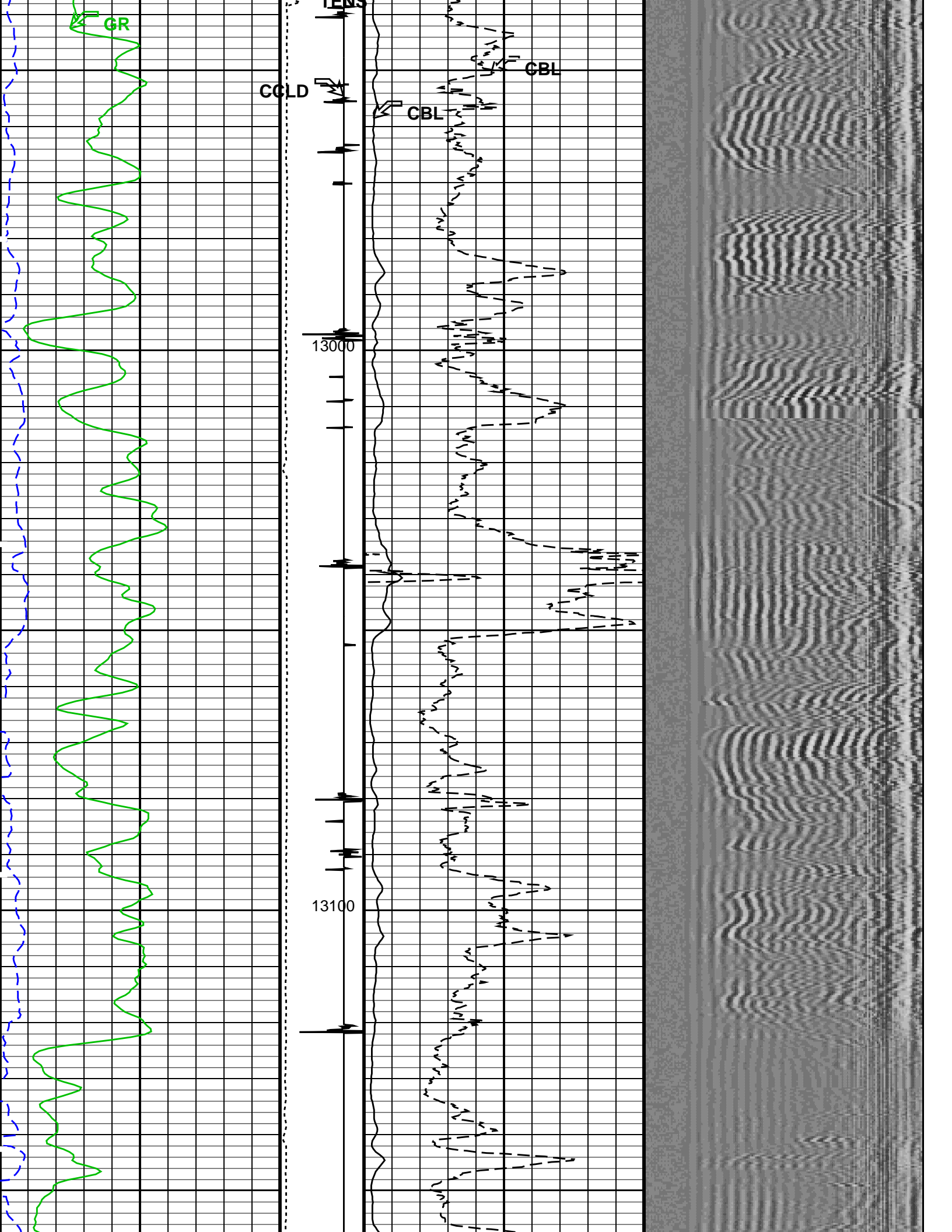


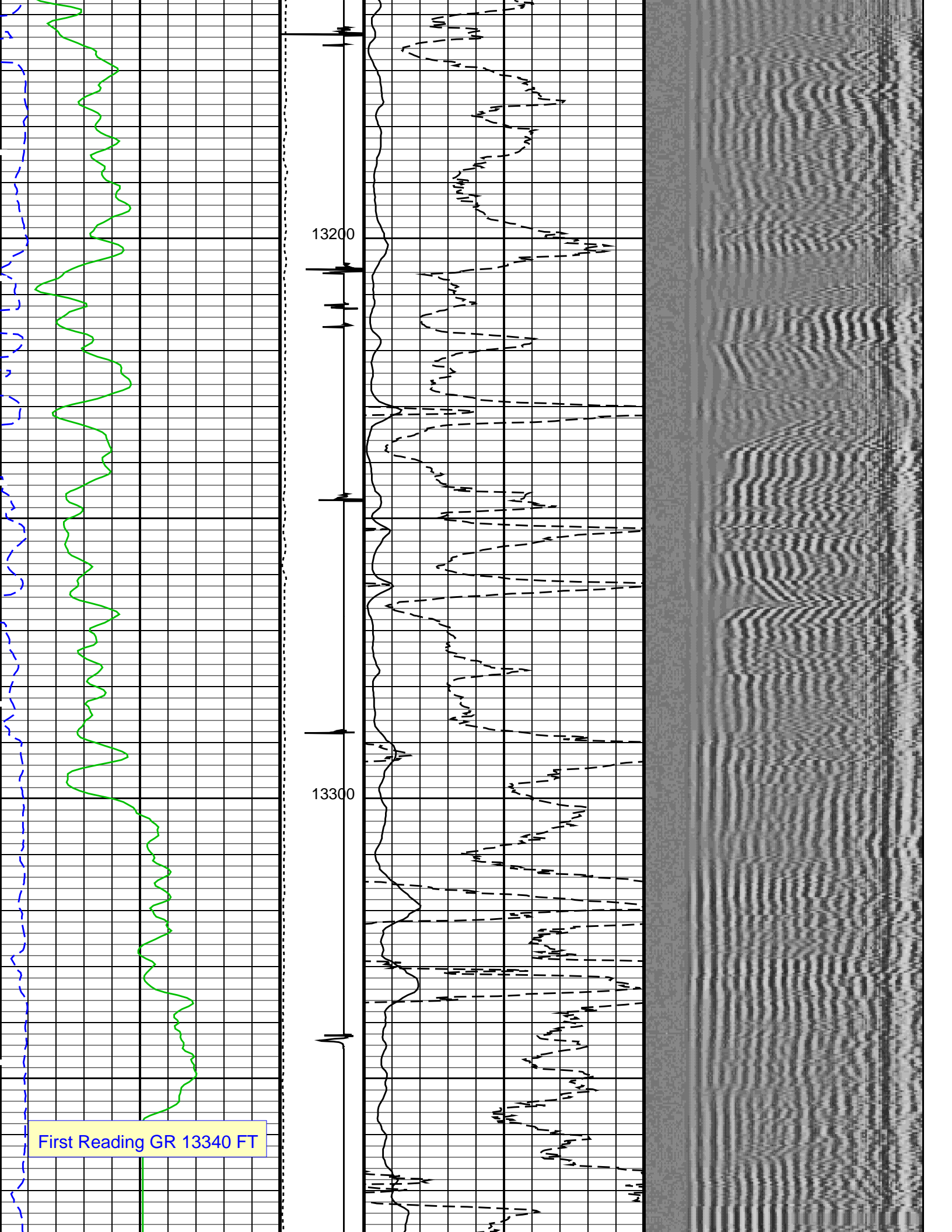








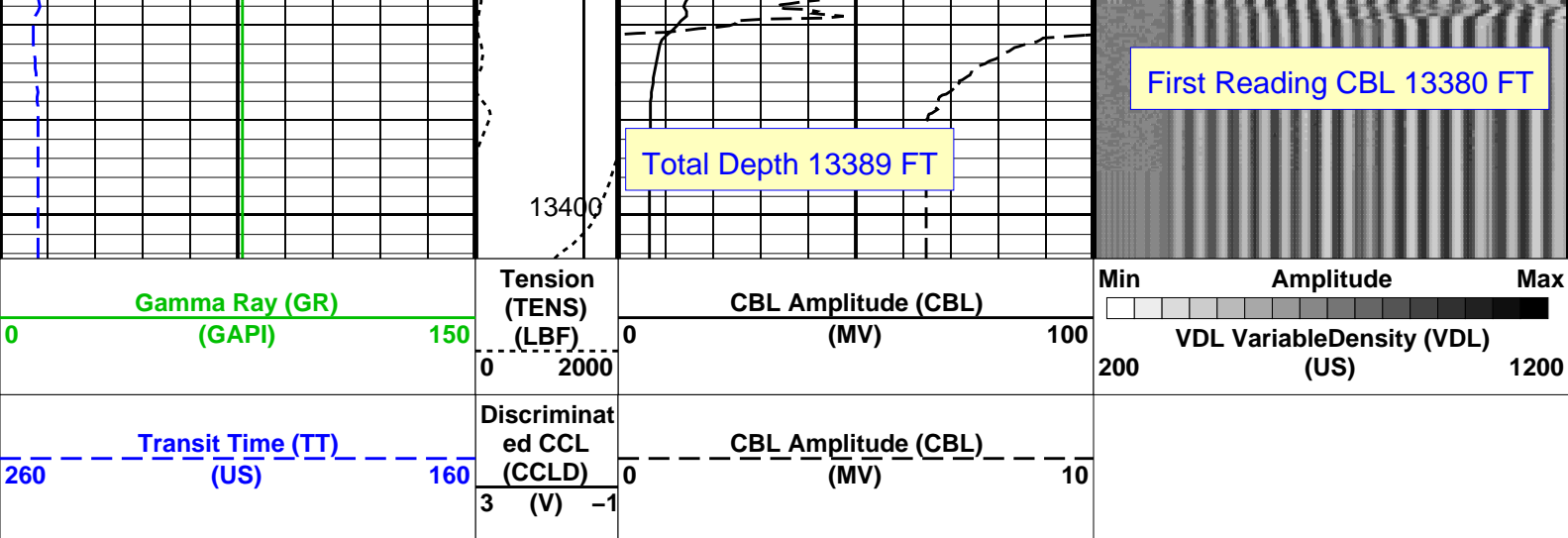




13200

13300

First Reading GR 13340 FT



PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100'

Graphics File Created: 04-Jan-2014 01:35

OP System Version: 19C0-187

SCMT-CB 19C0-187 RST-C 19C0-187
HBMS-B 19C0-187

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number SCMS-CB 8317

Current Casing Size 4.50000 IN

Casing Weight 11.6000 LB/F

Expected CBL Amplitude 80 MV

in Free Pipe Section

Minimum Sonic Amplitude

0.579149 MV (100% Cement)

1.55185 MV (80% Cement)

MAP Minimum Sonic Amplitude

4.32284 MV (100% Cement)

8.10244 MV (80% Cement)

Master Calibration (Normalization)

Before Calibration (Adjustment)

Date of Master Calibration 19-NOV-2013

CBL Correction Factor 0.0760937

CBL Adjustment Factor (CBAF) 1.0

MAP 1 Correction Factor 0.150622

MAP Adjustment Factor (MPAF) 1.0

MAP 2 Correction Factor 0.179433

MAP 3 Correction Factor 0.224866

MAP 4 Correction Factor 0.185593

MAP 5 Correction Factor 0.169494

MAP 6 Correction Factor 0.164349

MAP 7 Correction Factor 0.149944

MAP 8 Correction Factor 0.141671

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	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	60 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

CMTIC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
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	
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	11.60	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	10.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	13389	FT

Input DLIS Files

DEFAULT	SCMT_RST_HBMS_040LUP	FN:39	PRODUCER	03-Jan-2014 21:58	13394.5 FT	-6.0 FT
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Output DLIS Files

DEFAULT	SCMT_RST_HBMS_051PUP	FN:50	PRODUCER	04-Jan-2014 01:35
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Schlumberger

REPEAT ANALYSIS CBL VDL

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC	Well: SG 8502C-23 (L24 496)
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Input DLIS Files

DEFAULT	SCMT_RST_HBMS_038LUP	FN:37	PRODUCER	03-Jan-2014 21:23	9035.0 FT	8724.5 FT
DEFAULT	SCMT_RST_HBMS_051PUP	FN:50	PRODUCER	04-Jan-2014 01:35	13404.5 FT	-43.5 FT

Output DLIS Files

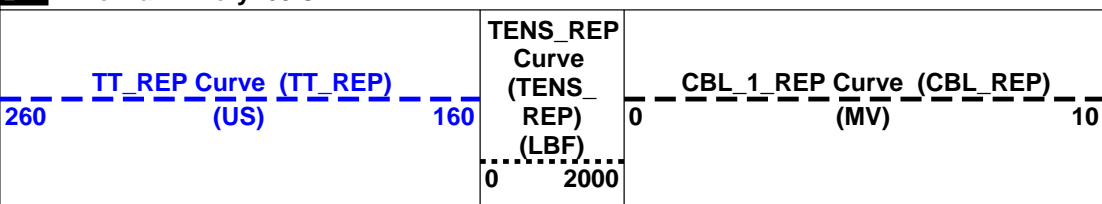
DEFAULT	SCMT_RST_HBMS_052PUP	FN:51	PRODUCER	04-Jan-2014 01:45	9035.0 FT	8677.0 FT
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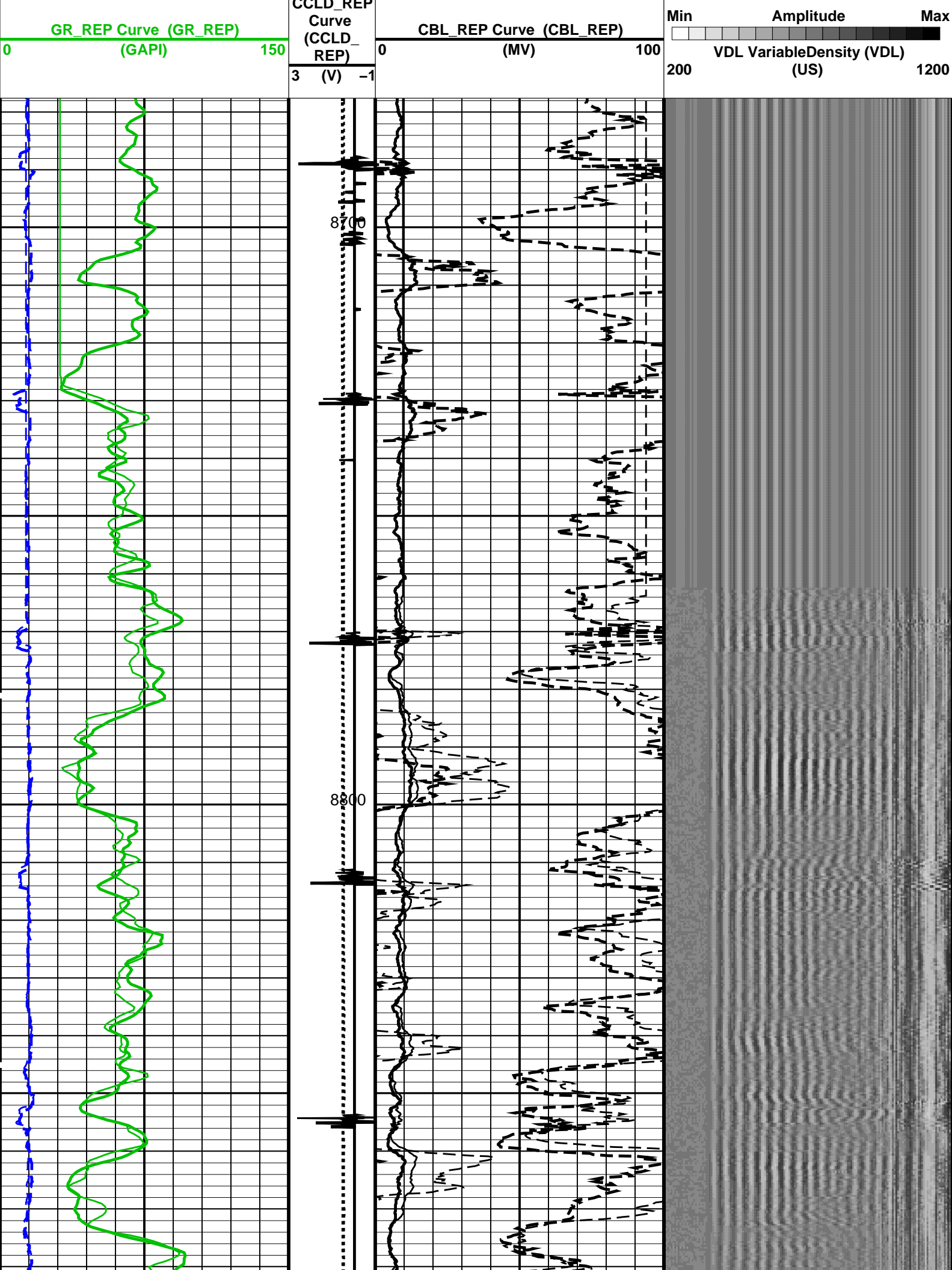
OP System Version: 19C0-187

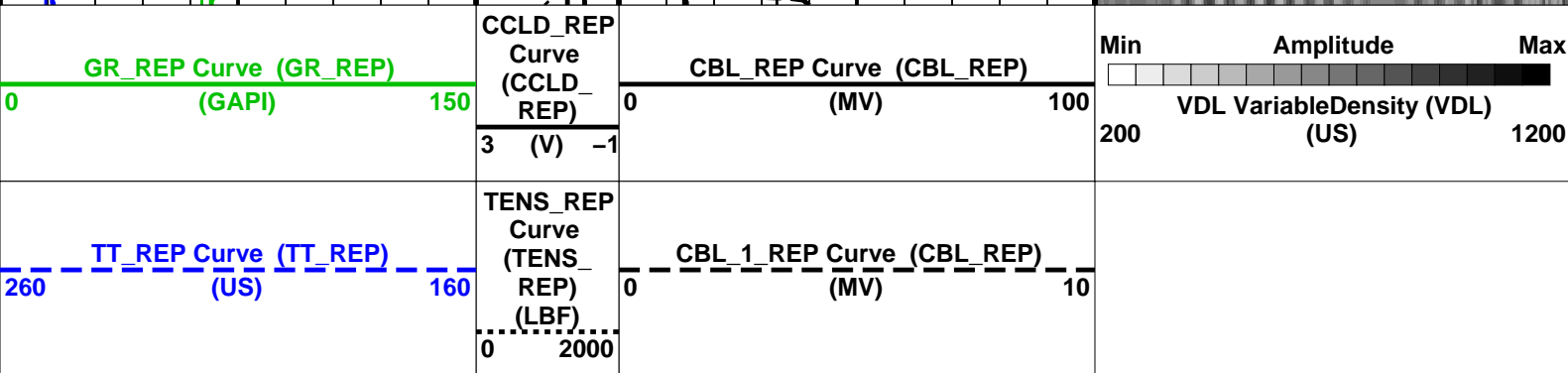
SCMT-CB	19C0-187	RST-C	19C0-187
HBMS-B	19C0-187		

PIP SUMMARY

☒ Time Mark Every 60 S







<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8317		
Current Casing Size	4.50000 IN		
Casing Weight	11.6000 LB/F		
Expected CBL Amplitude in Free Pipe Section	80 MV	Minimum Sonic Amplitude	0.579149 MV (100% Cement)
			1.55185 MV (80% Cement)
		MAP Minimum Sonic Amplitude	4.32284 MV (100% Cement)
			8.10244 MV (80% Cement)
Master Calibration (Normalization)	Before Calibration (Adjustment)		
Date of Master Calibration	19-NOV-2013		
CBL Correction Factor	0.0760937	CBL Adjustment Factor (CBAF)	1.0
MAP 1 Correction Factor	0.150622	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.179433		
MAP 3 Correction Factor	0.224866		
MAP 4 Correction Factor	0.185593		
MAP 5 Correction Factor	0.169494		
MAP 6 Correction Factor	0.164349		
MAP 7 Correction Factor	0.149944		
MAP 8 Correction Factor	0.141671		

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	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	60	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	
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	
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	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
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	13389	FT

Input DLIS Files

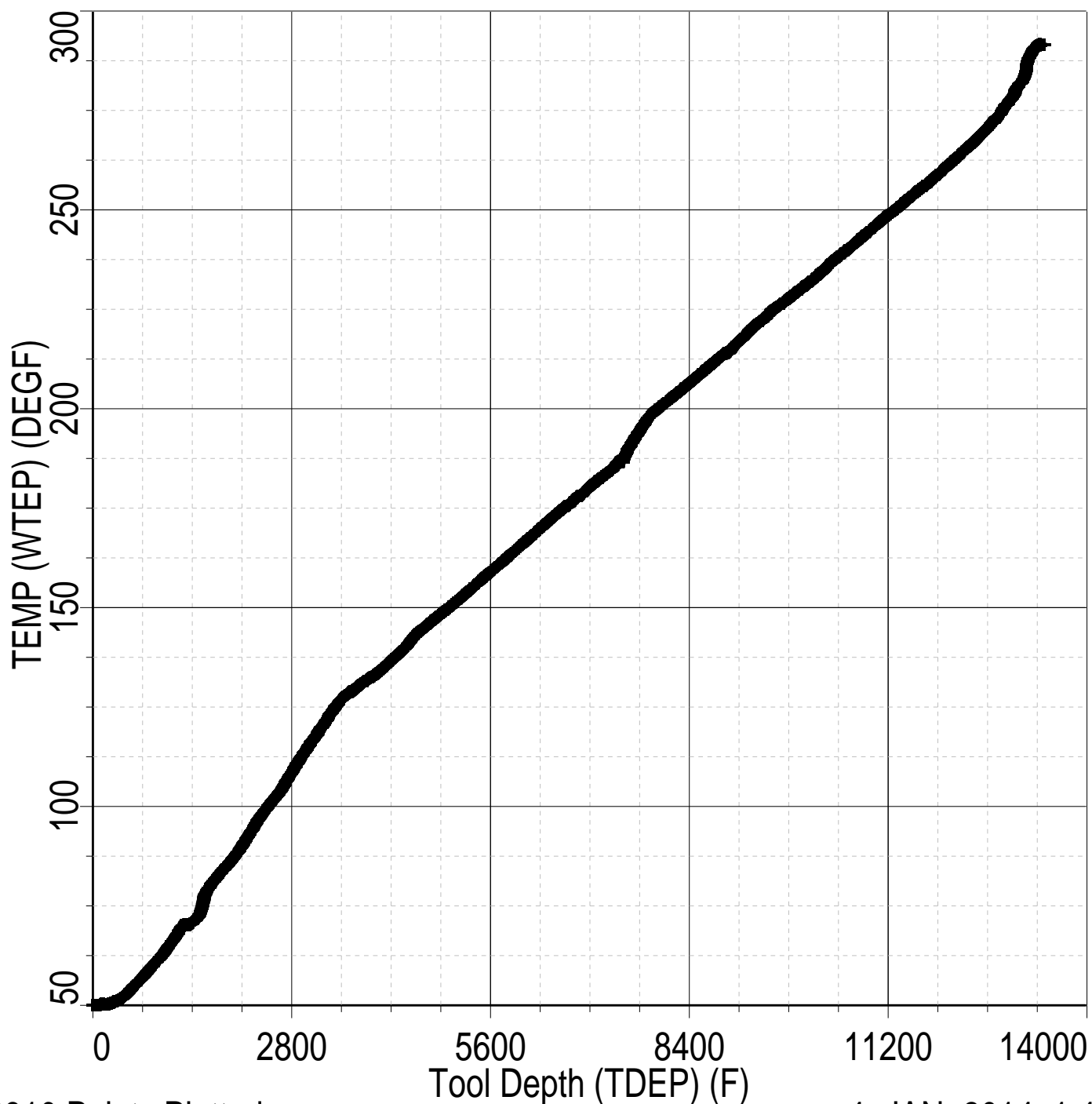
DEFAULT	SCMT_RST_HBMS_038LUP	FN:37	PRODUCER	03-Jan-2014 21:23	9035.0 FT	8724.5 FT
DEFAULT	SCMT_RST_HBMS_051RUP	FN:50	PRODUCER	04-Jan-2014 01:35	13404.5 FT	43.5 FT

Schlumberger

TEMPERATURE PLOT

MAXIS Field Log

Index: 13404.5 – -43.5 FT





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

8317

Slim Cement Mapping Cartridge




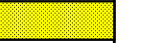





SCMC – CA

8120

Auxiliary Equipment:

Slim Electronics Cartridge Housing

SECH – CA

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			796.7	Master			668.8
	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			533.7	Master			646.6
	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			708.0	Master			730.2
	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			800.3	Master			847.0
	500.0 (Minimum)	1075 (Nominal) 1650 (Maximum)			500.0 (Minimum)	1075 (Nominal) 1650 (Maximum)	
Phase	CBL Amplitude Plus MV		Value				
Master			1262				
	1000 (Minimum)	1350 (Nominal) 1700 (Maximum)					
Master: 19–Nov–2013 17:30							



PBMS COEFFICIENTS

Client: ENCANA OIL & GAS (USA) INC
Field: STORY GULCH
Well: SG 8502D-23 (L24 496)
Run date: 3-Jan-2014

Tool: PSP
Sub Type: PBMS
Sensor: GR

PBMS Gamma Ray

Sonde Serial NB RESISTORS FOR GR SENSOR N.37166, TOOL HBMS-BA2955. SENSOR S/N:
Sensor Serial NB 37166
Calib Date ddmmyy 280912
Matrix Size 12
Coeff CRC 6646

GR HV Rt

Rt**0

Rt**1

Rt**0

+.200000000000e+04

+.193000000000e+04

Client: ENCANA OIL & GAS (USA) INC
Field: STORY GULCH
Well: SG 8502D-23 (L24 496)
Run date: 3-Jan-2014

Tool: PSP
Sub Type: PBMS
Sensor: WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB COEFFICIENTS FOR RTD THERMOMETER PBMS-B.2955 S/N:
Sensor Serial NB 2955
Calib Date ddmmyy 140513
Matrix Size 16
Coeff CRC 9ABB

WTemp Coeff

Tt**0

Tt**1

Tt**2

Tt**0

-.579466850375E+03

+.321000211776E+03

-.769493413393E+02

Tt**3

Tt**4

Tt**5

Tt**0

+.118371810108E+02

−.654027317127E+00

0.0

Client: ENCANA OIL & GAS (USA) INC
Field: STORY GULCH
Well: SG 8502D−23 (L24 496)
Run date: 3−Jan−2014

Tool: PSP
Sub Type: PBMS
Sensor: CQG

PBMS Quartz Gauge type F

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR CQG PBMS−B.2955 S/N:

2955

140513

66

AD6E

Pres Coeff

Fb**0

Fb**1

Fb**2

Fc**0 +.805218055799E+04 +.230687803777E−01 +.120020876821E−07

Fc**1 −.107970514637E+01 −.131245085272E−04 −.102678735701E−09

Fc**2 +.111466223414E−05 +.524200534425E−10 +.949904926223E−15

Fc**3 +.255809900188E−11 +.160726360322E−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 −.772560939667E−10 −.145379238115E−14 −.218737246914E−19

Fc**1 +.968642492374E−16 +.223810216552E−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 2955
Calib Date ddmmyy 140513
Matrix Size 66
Coeff CRC EC8A

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+.120725065588E+03	-.313379211795E-03	+.708634488020E-08
Fb**1	-.596235012256E-02	+.182626448637E-07	+.104369551702E-12
Fb**2	-.295513003186E-07	+.341136223414E-12	-.998721617444E-18
Fb**3	-.375208992867E-12	+.712560466778E-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	+.136541410168E-12	-.403343086990E-17	-.830542374631E-21
Fb**1	-.618398112617E-18	+.429129395353E-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 2955
Calib Date ddmmyy 140513
Matrix Size 16
Coeff CRC 6C01

Clock Freq Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+.310812532328E+05	+.224728840165E-02	+.742962292518E-06

	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	-.673865003325E-10	-.911707425039E-16	-.961889742081E-20

PBMS Quartz Gauge type F

Sonde Serial NB :
Sensor Serial NB 2955
Calib Date ddmmyy 140513
Matrix Size 16

Clock Temp Coeff

	$(Fb'-Fc')^{**0}$	$(Fb'-Fc')^{**1}$	$(Fb'-Fc')^{**2}$
$(Fb'-Fc')^{**0}$	$+1.122085335110E+03$	$-.602096613375E-02$	$-.167139647989E-07$
	$(Fb'-Fc')^{**3}$	$(Fb'-Fc')^{**4}$	$(Fb'-Fc')^{**5}$
$(Fb'-Fc')^{**0}$	$-.105604526136E-11$	$-.109719083283E-15$	$+.100037226713E-19$

Company: **ENCANA OIL & GAS (USA) INC****Schlumberger**Well: **SG 8502C-23 (L24 496)**Field: **STORY GULCH**County: **GARFIELD**State: **COLORADO**SLIM CEMENT MAPPING LOG
GAMMA RAY - CCL - TEMPERATUR