

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8513D-25 (D36 496)

Field: GRAND VALLEY

County: GARFIELD

State: COLORADO

SLIM CEMENT MAPPING LOG	
CBL-VDL	
GR-CCL	
SHL 1089 FWL & 286 FNL BHL 399 FSL & 675 FEL	Elev.: K.B. 8310.00 ft G.L. 8290.00 ft D.F. 8309.00 ft
Permanent Datum: _____ Log Measured From: KELLY BUSHING Drilling Measured From: KELLY BUSHING	GROUND LEVEL _____ Elev.: 8290.00 ft 20.00 ft above Perm. Datum
API Serial No. 05-045-20930-0C	Section 36 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	29-Nov-2012		
Run Number	1		
Depth Driller	12110 ft		
Schlumberger Depth	12039 ft		
Bottom Log Interval	12030 ft		
Top Log Interval	70 ft		
Casing Fluid Type	FRESH WATER		
Salinity			
Density	8.4 lbm/gal		
Fluid Level	70 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.750 in		
From	30 ft		
To	12110 ft		
Casing/Tubing Size	4.500 in		
Weight	11.6 lbm/ft		
Grade	P-110		
From	30 ft		
To	12090 ft		
Maximum Recorded Temperatures	285 degF		
Logger On Bottom	29-Nov-2012	23:30	
Unit Number	Location		
Recorded By	WILLIAM FLOYD		
Witnessed By	RYAN TOMPKINS		

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: 24-NOV-2012 13:54:36

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:	112136
Calibration Date:	24-APR-2012	Calibration Date:	24-OCT-201	Length:	19700 FT
Calibrator Serial Number:		Calibrator Serial Number:	174878	Conveyance Method:	Wireline
Calibration Cable Type:	1-25P	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-3	Calibration RMS:	4		
Wheel Correction 2:	-4	Calibration Peak Error:	10		

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
Stretch Correction:	
Tool Zero Check At Surface:	

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES USED
2. PRIMARY DEPTH CONTROL: IDW
3. SECONDARY DEPTH CONTROL: Z-CHART/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.

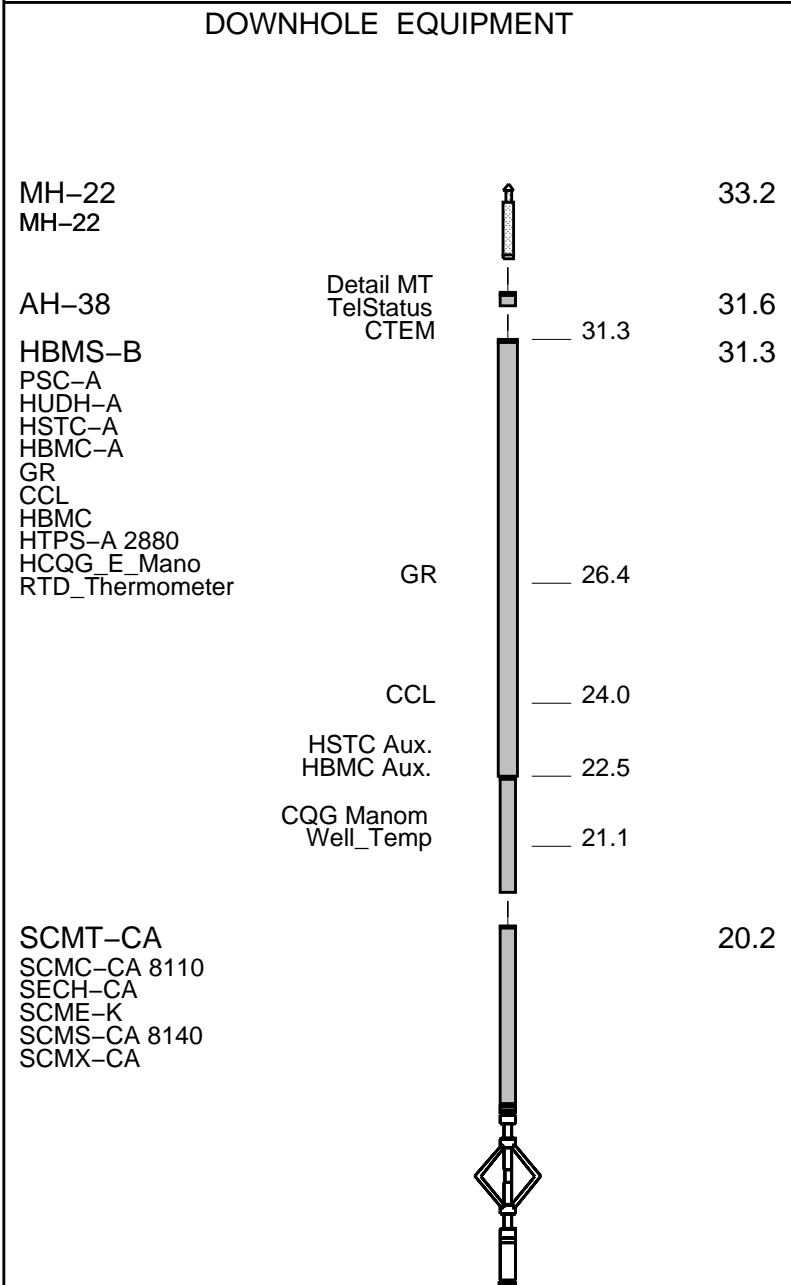
OTHER SERVICES1 OS1: NONE OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FIRST RUN IN HOLE CORRELATED TO DOWN LOG	
TOOL RAN AS PER TOOL SKETCH	
MAX RECORDED TEMP= 285 DEGF	
MAX RECORDED PRESSURE= 5068 PSIA	
SHORT JOINTS= 7600' / 10600'	

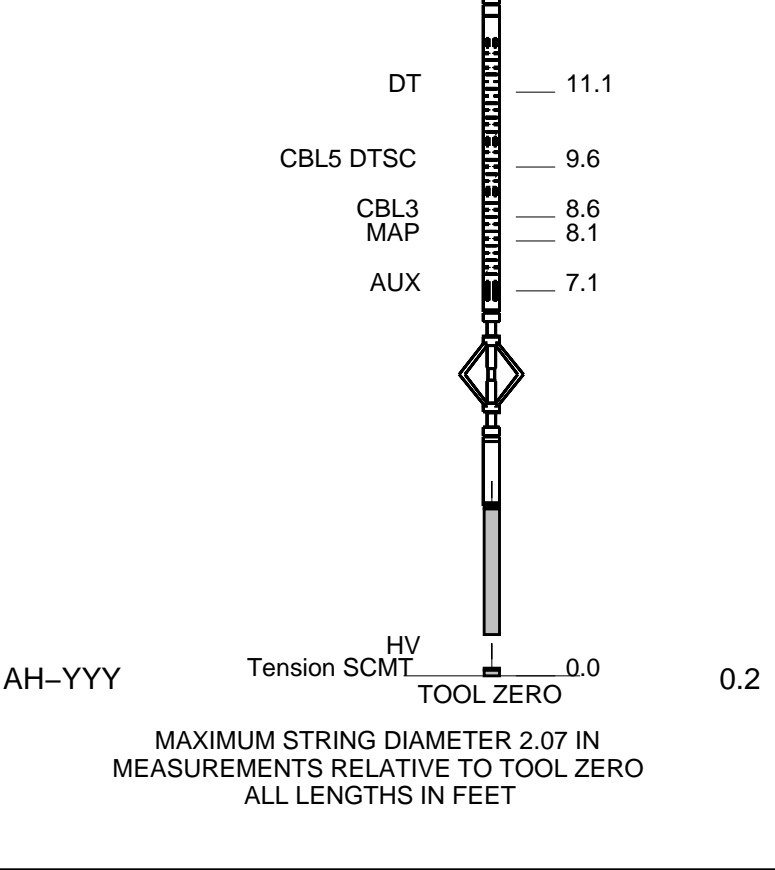
ENTRANCE TIME= 22:30	
LOGGER ON BOTTOM= 23:30	
EXIT TIME= 2:00	
MAIN PASS LOGGED WITH ZERO SURFACE PRESSURE	
CYCLE SKIPPING DUE TO GOOD BOND	
EXPECTED CBL AMPLITUDE OF FREE PIPE 80MV	
THANK YOU FOR CHOOSING E&P WIRELINE SERVICES	
YOUR CREW, K. BUNTING, W. FLOYD, J BARRY, W AZIZ, K JOHNS, C ARNOLD	

RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
CABD-00057 19C0-187 70 ft					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT
 WITM-A
 PSC_16MHZ





MAIN PASS CBL VDL

MAXIS Field Log

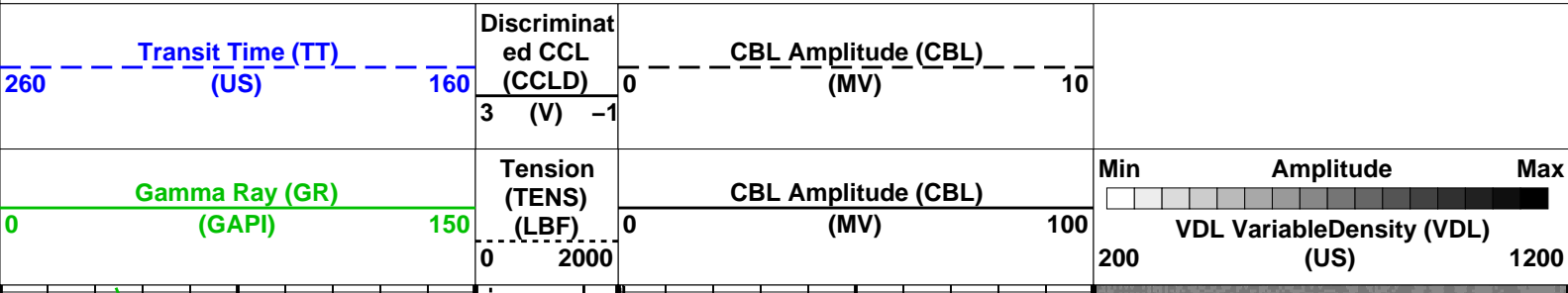
Company: ENCANA OIL & GAS (USA) INC Well: SG 8513D-25 (D36 496)

Input DLIS Files						
DEFAULT	SCMT_HBMS_028LUP	FN:27	PRODUCER	29-Nov-2012 23:21	12045.5 FT	13.0 FT
Output DLIS Files						
DEFAULT	SCMT_HBMS_032PUP	FN:31	PRODUCER	30-Nov-2012 02:48	12049.5 FT	17.0 FT

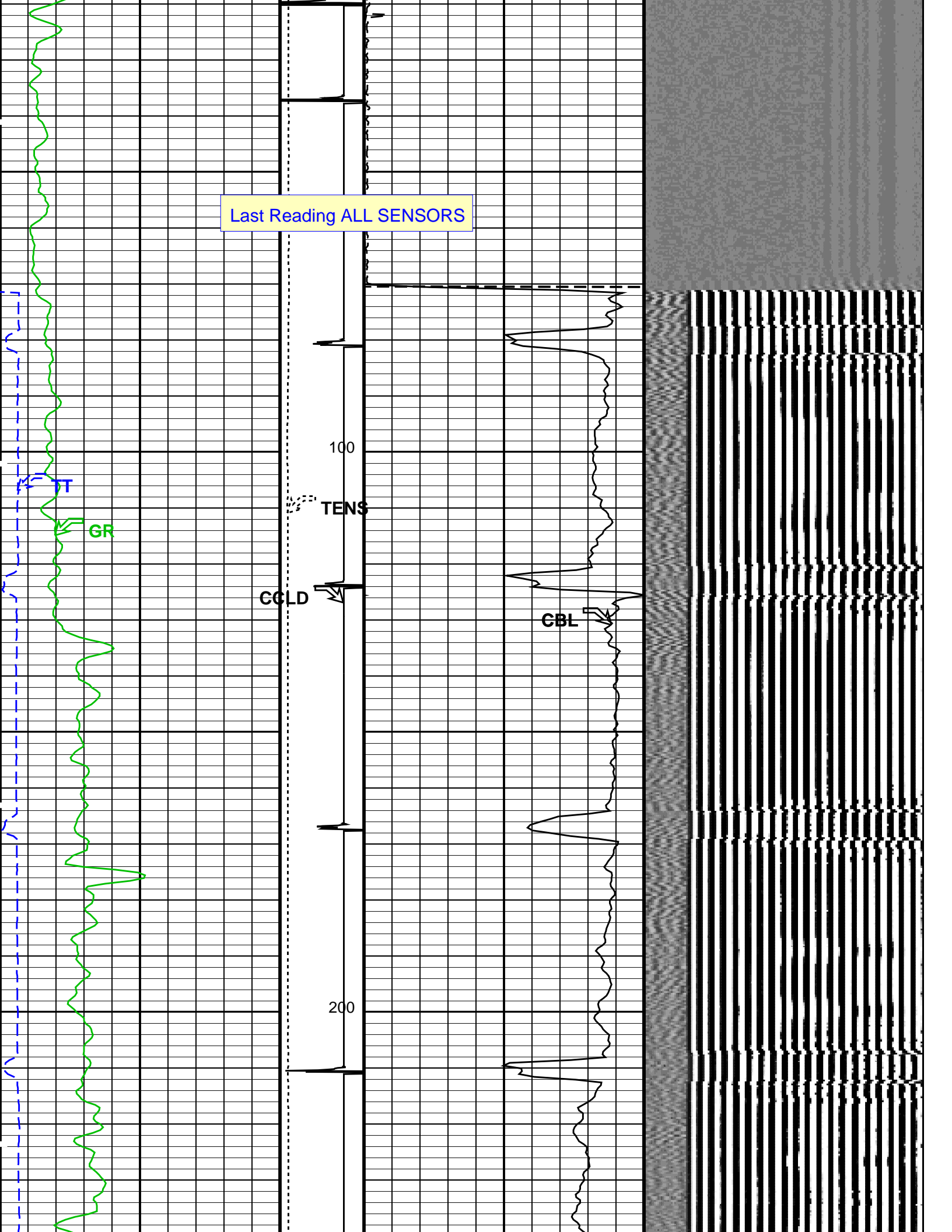
OP System Version: 19C0-187			
SCMT-CA	SRPC-5214-H2-2012-OP1	HBMS-B	SRPC-5214-H2-2012-OP1

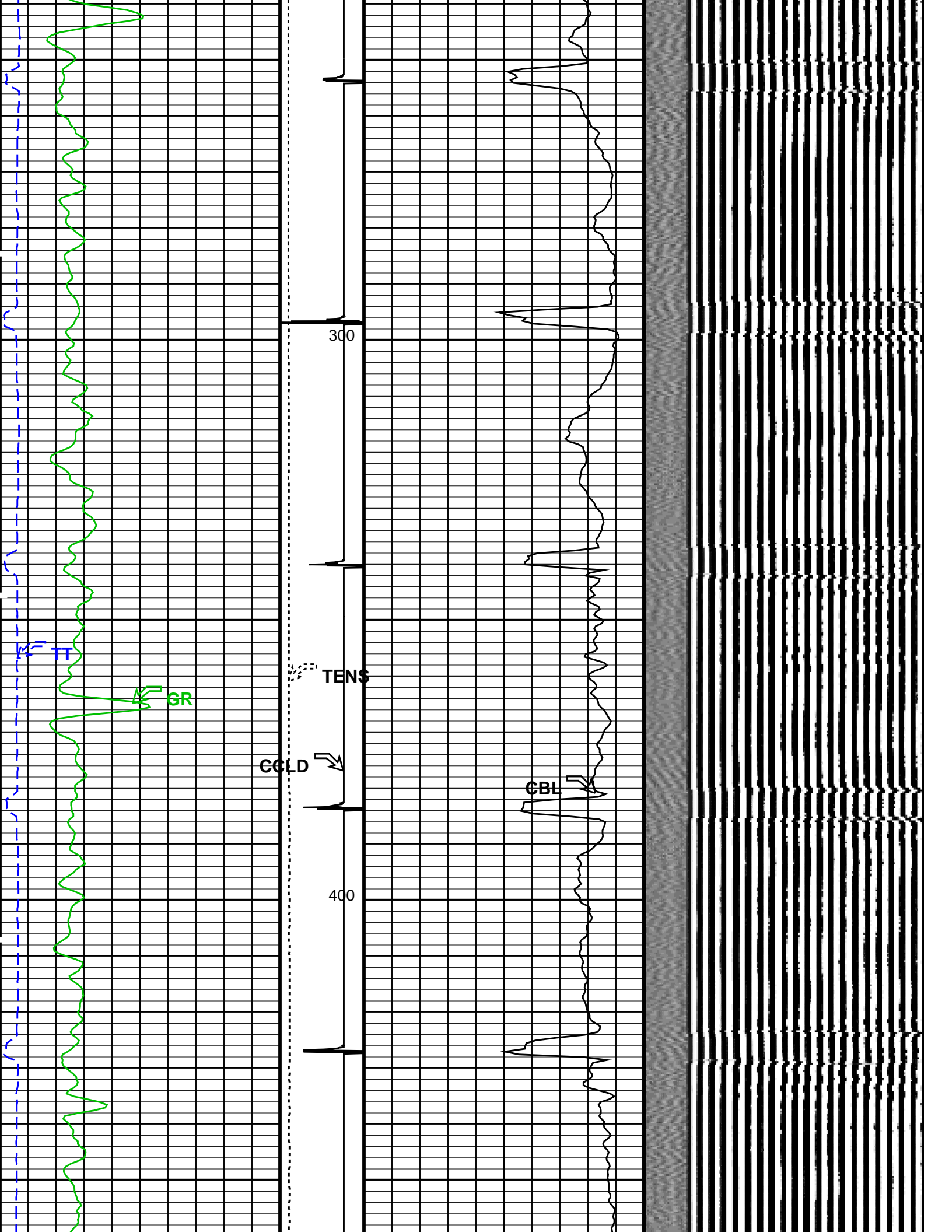
PIP SUMMARY

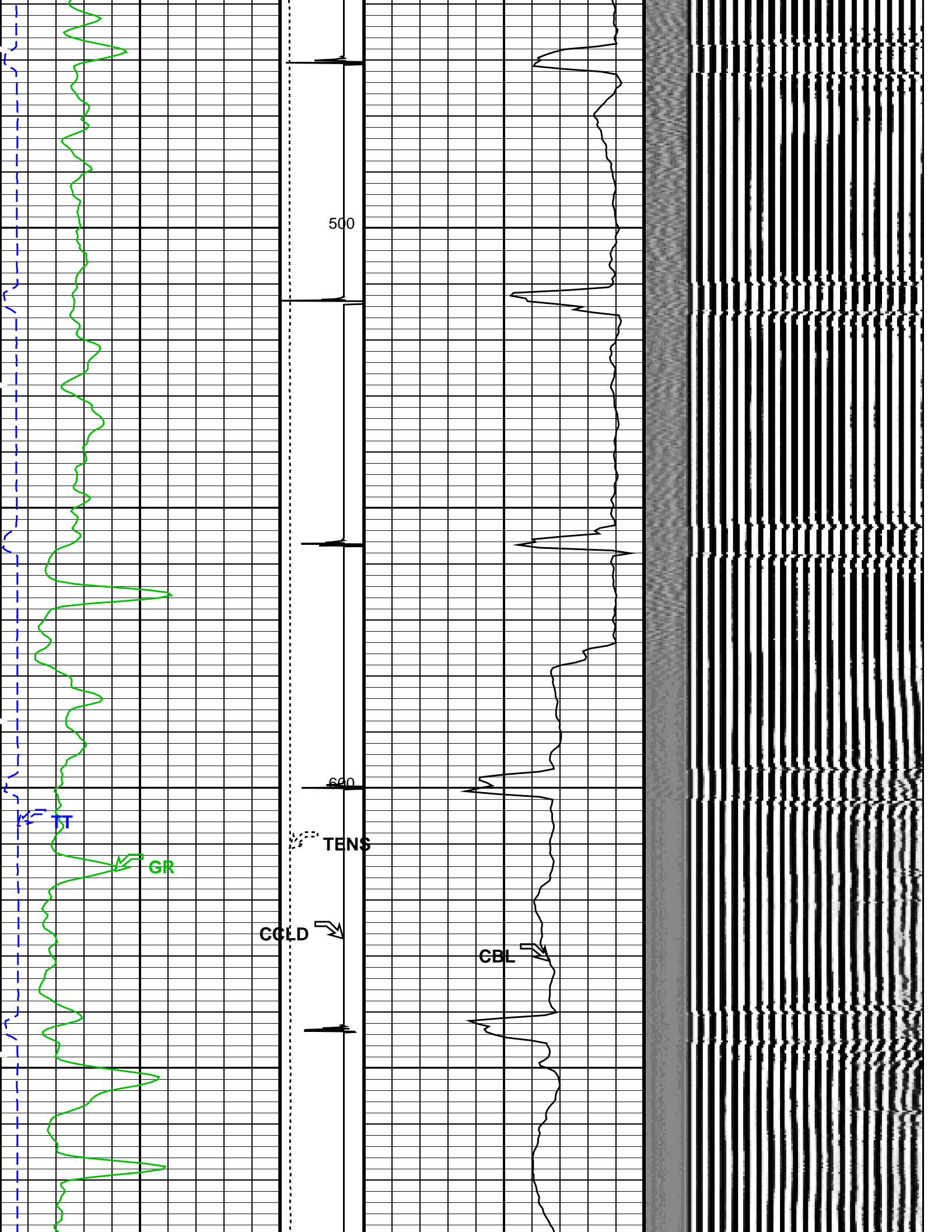
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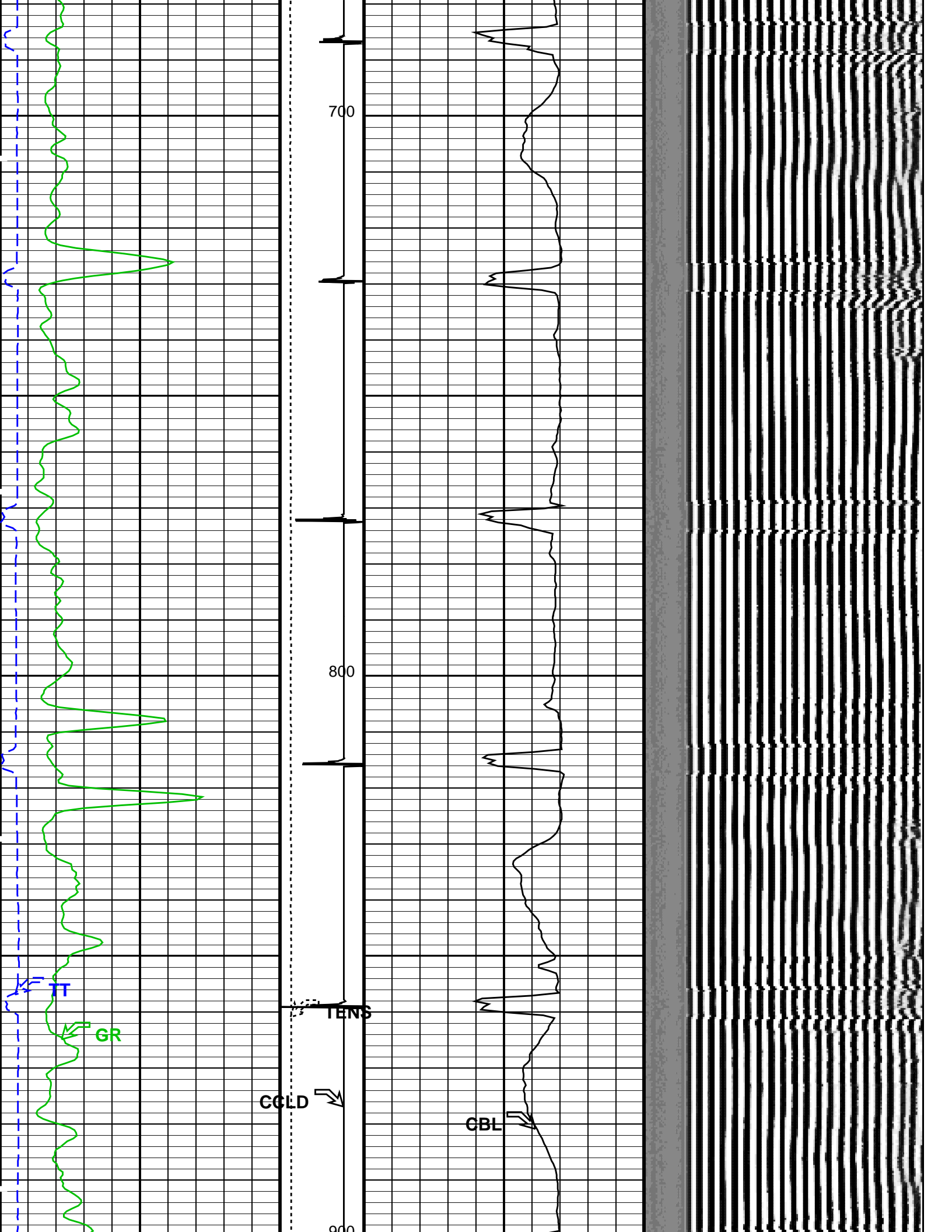


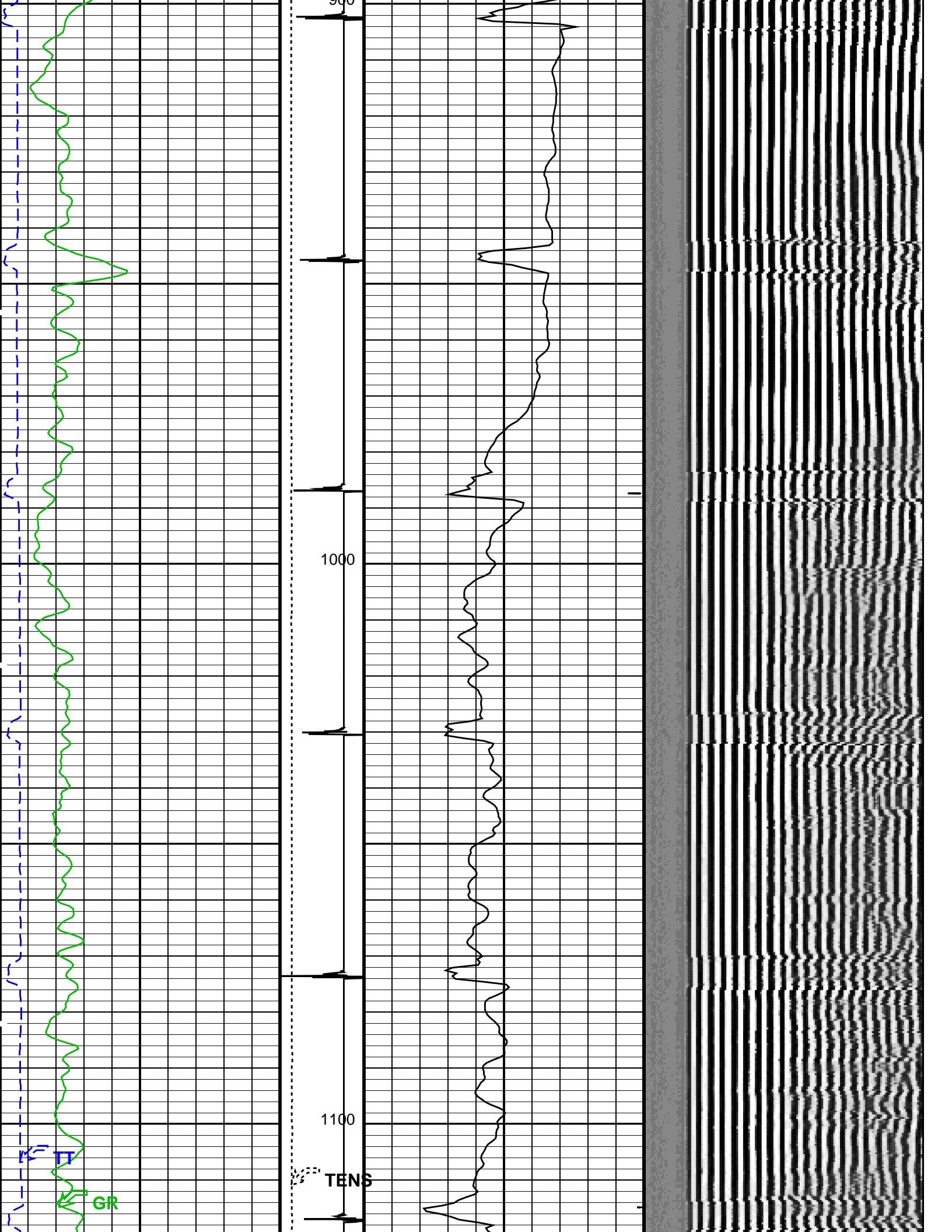
Last Reading ALL SENSORS

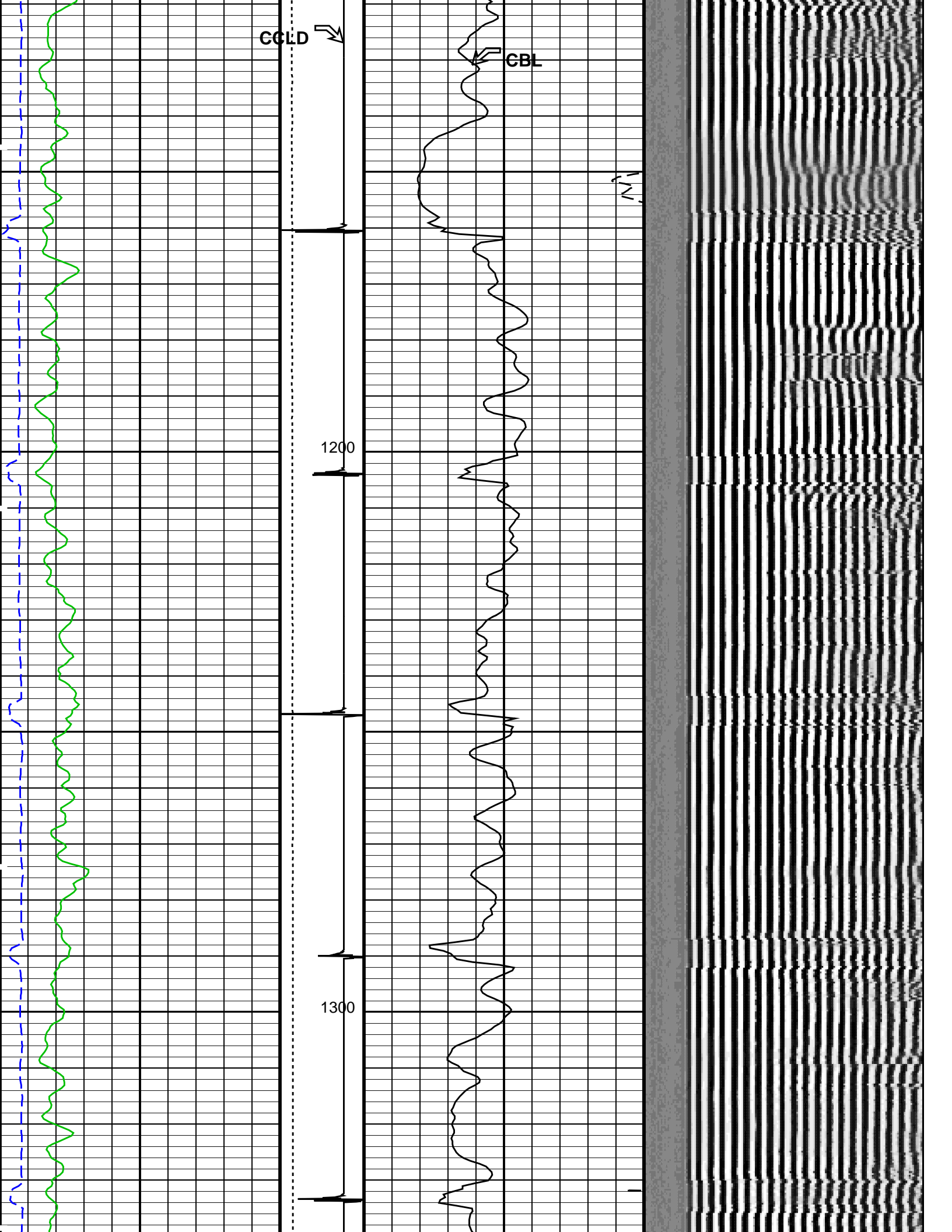


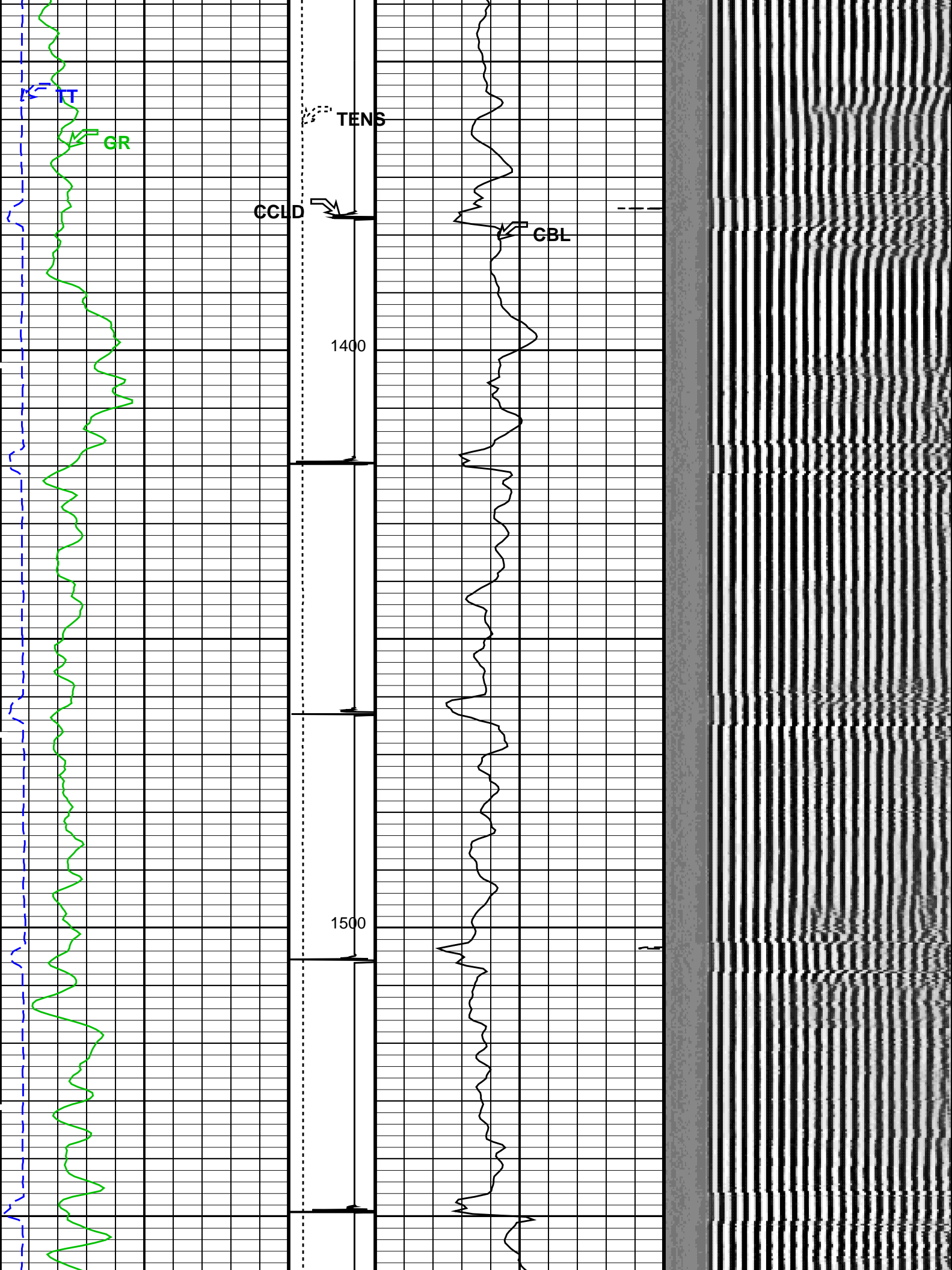


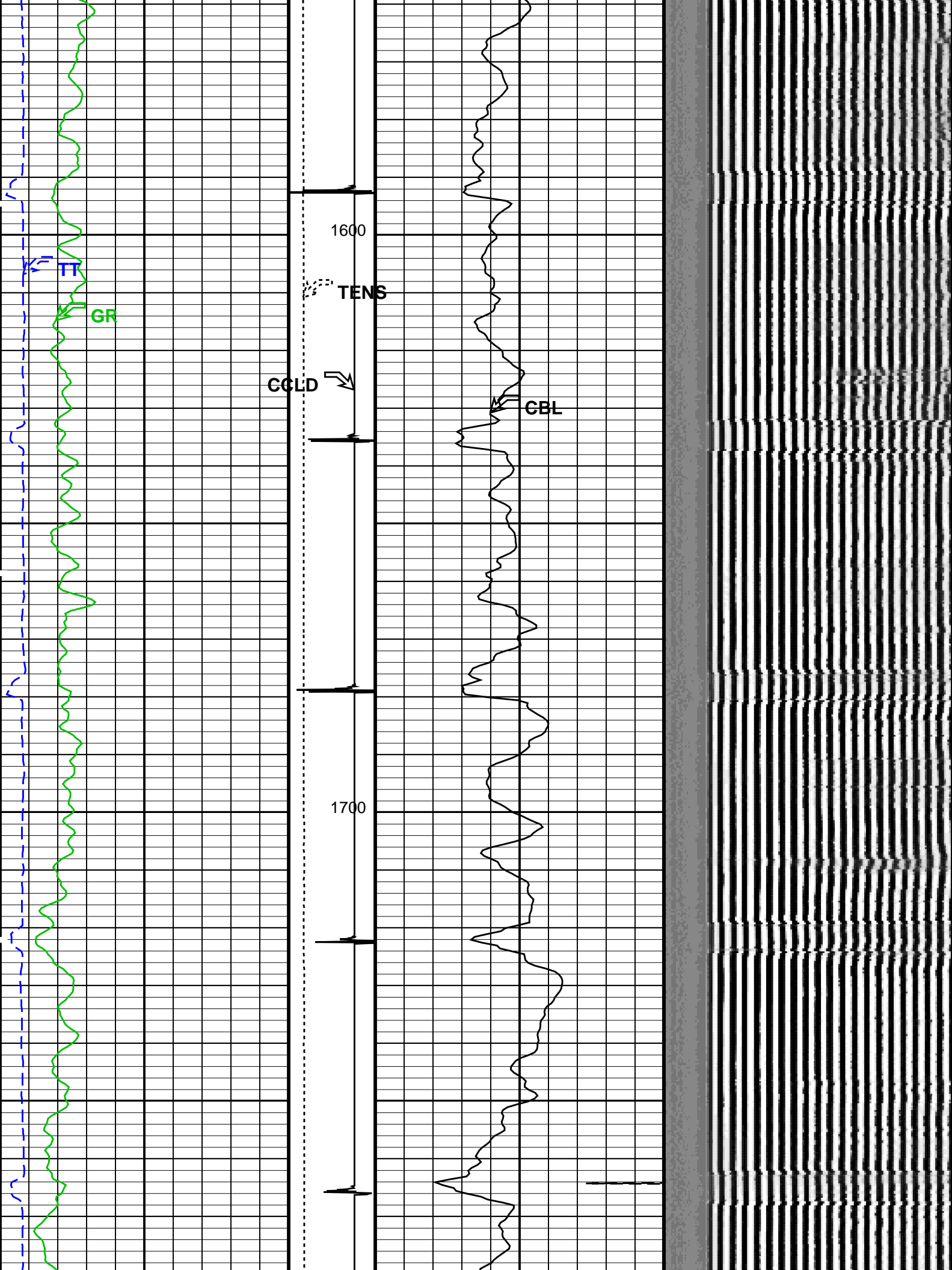


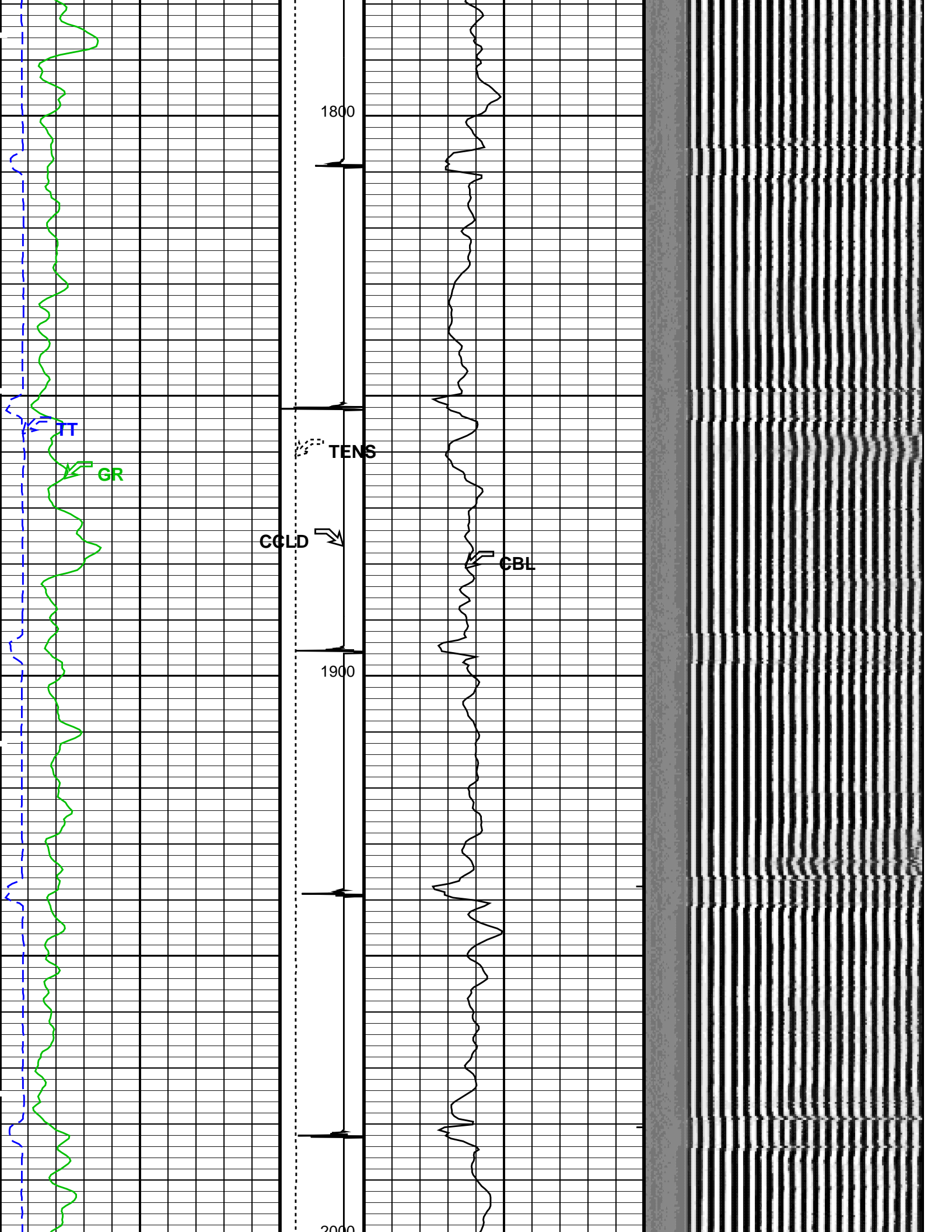


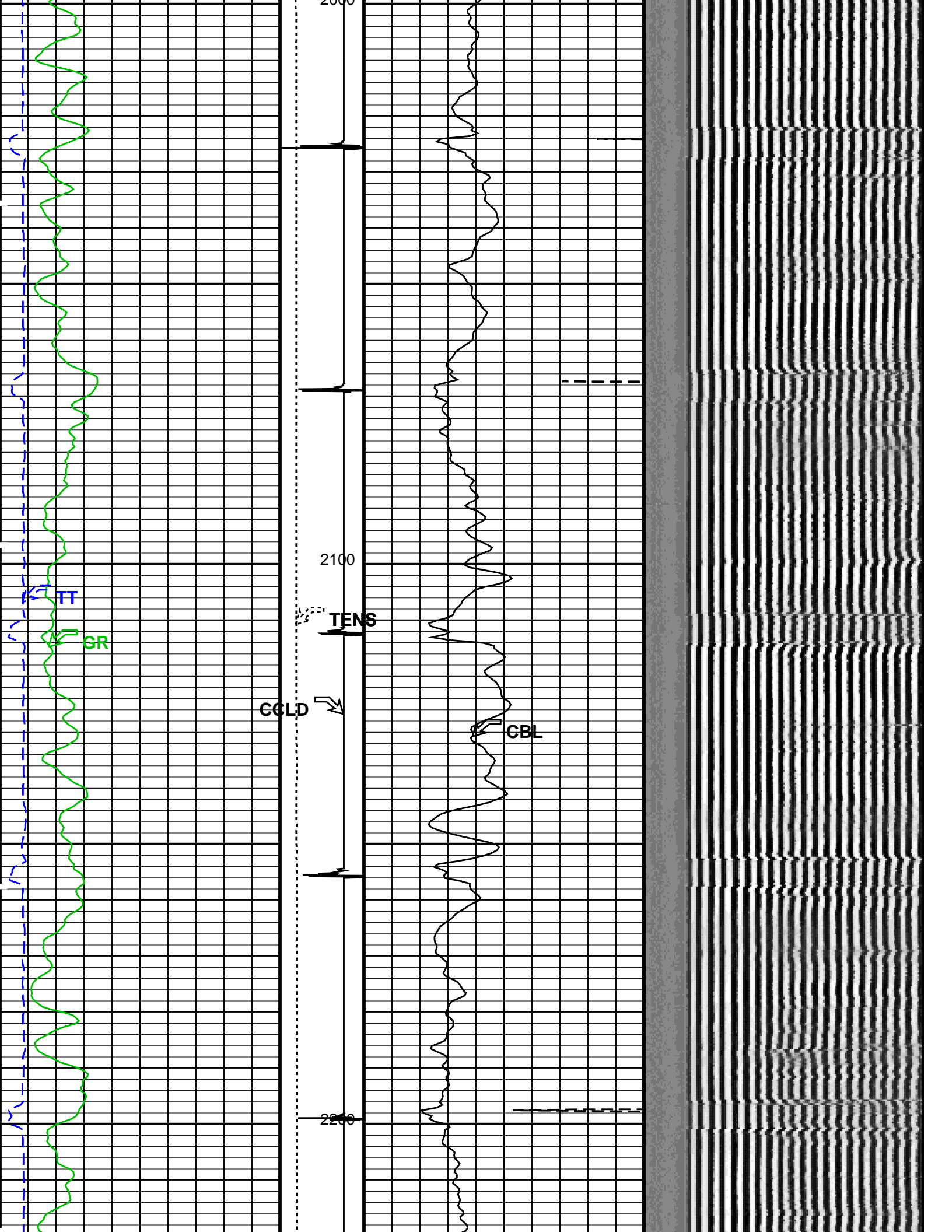


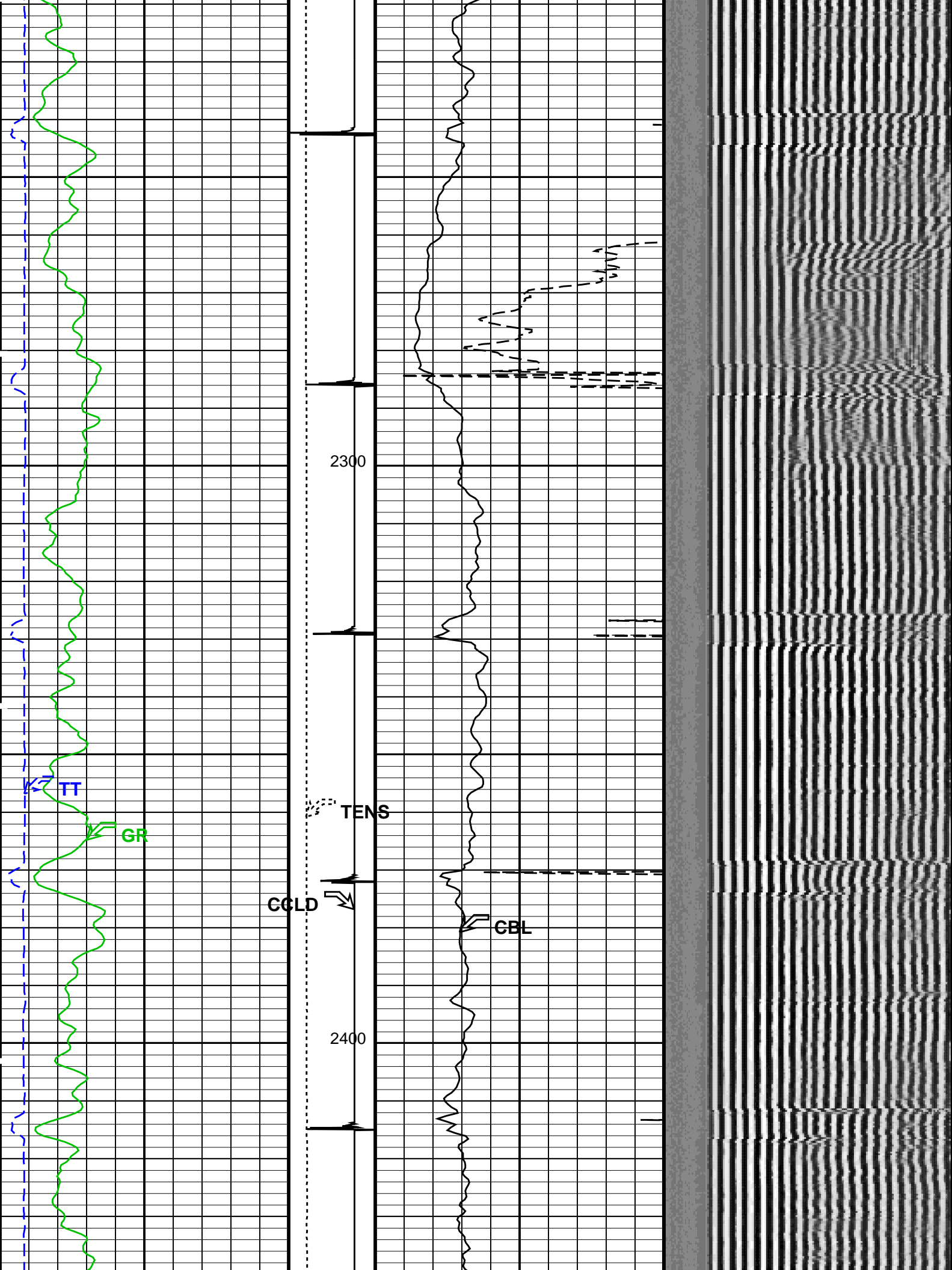


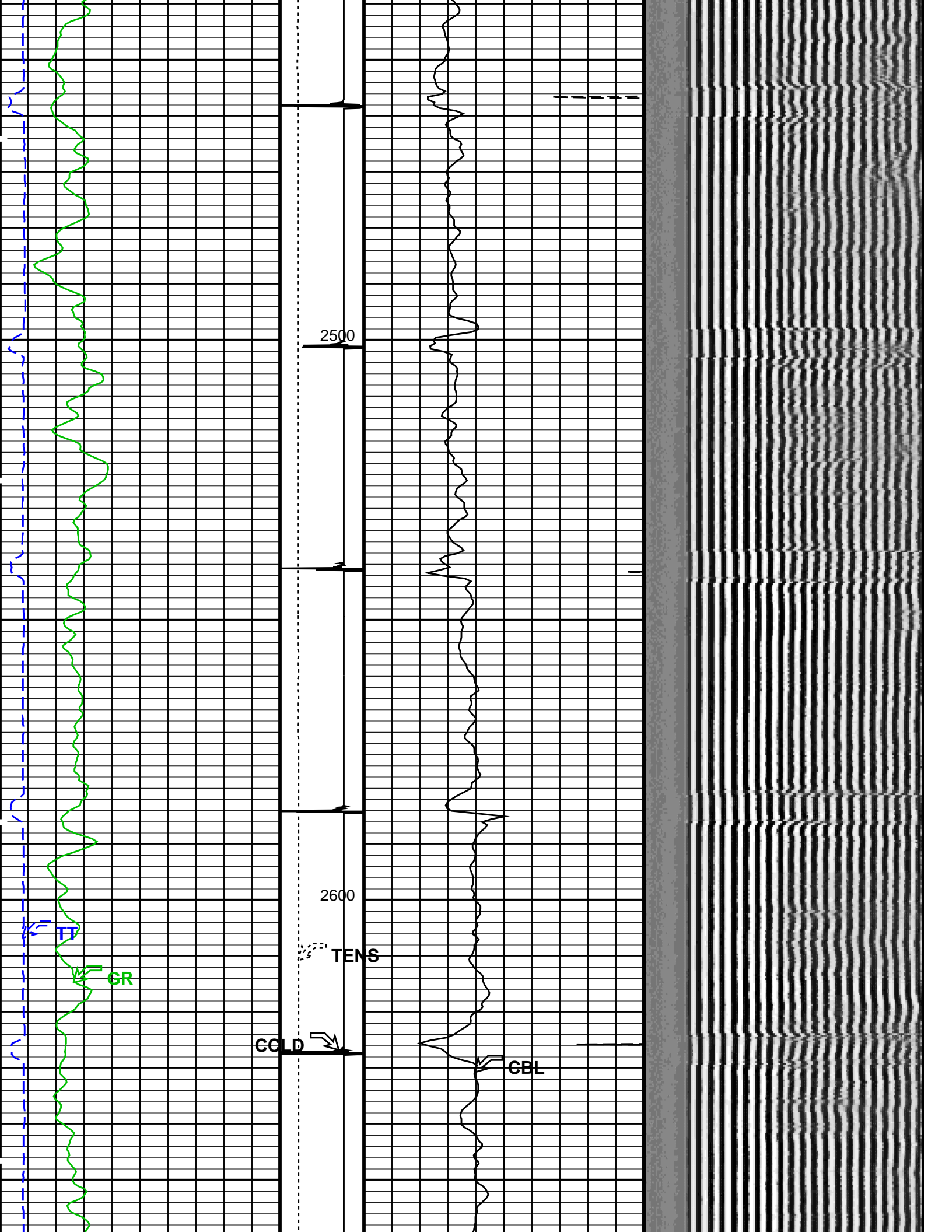


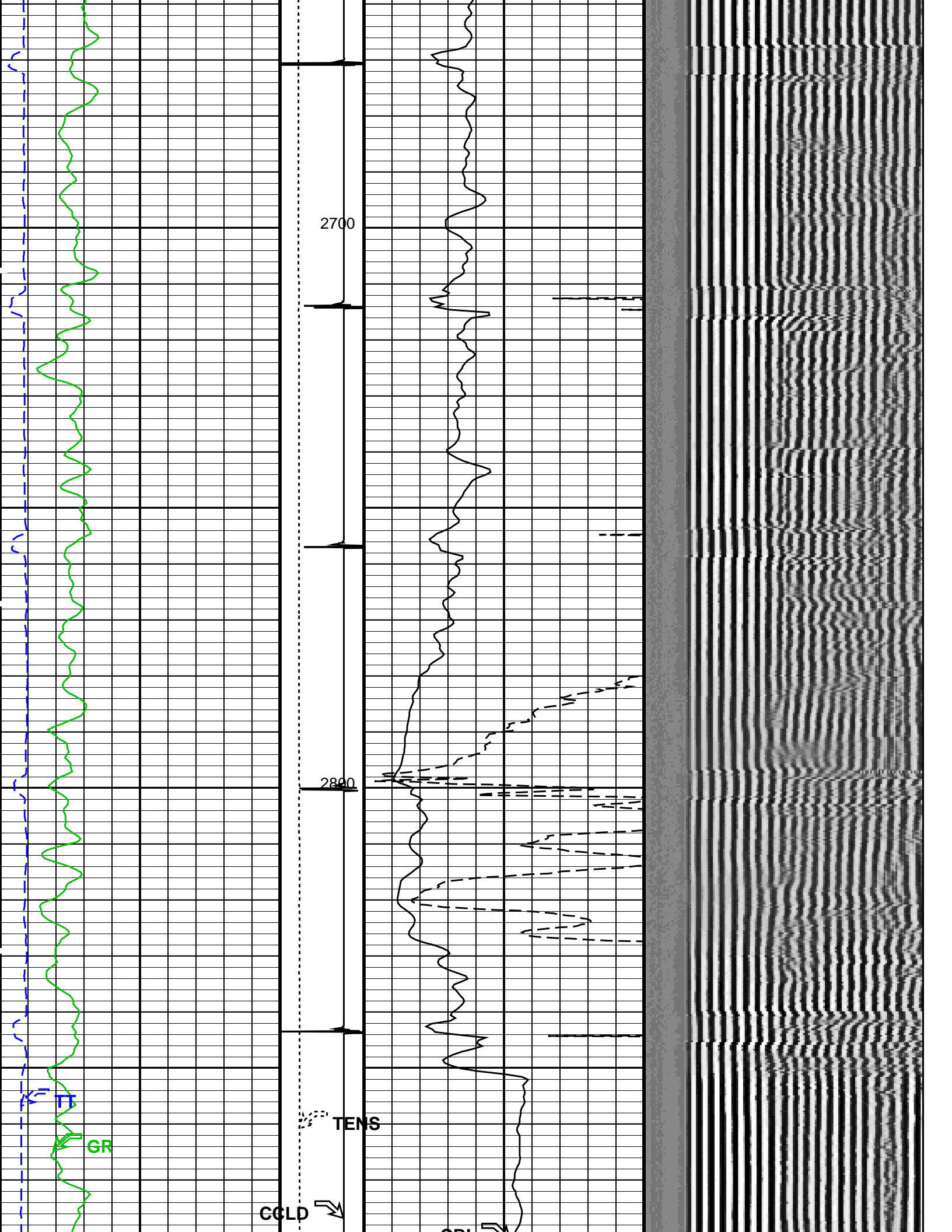


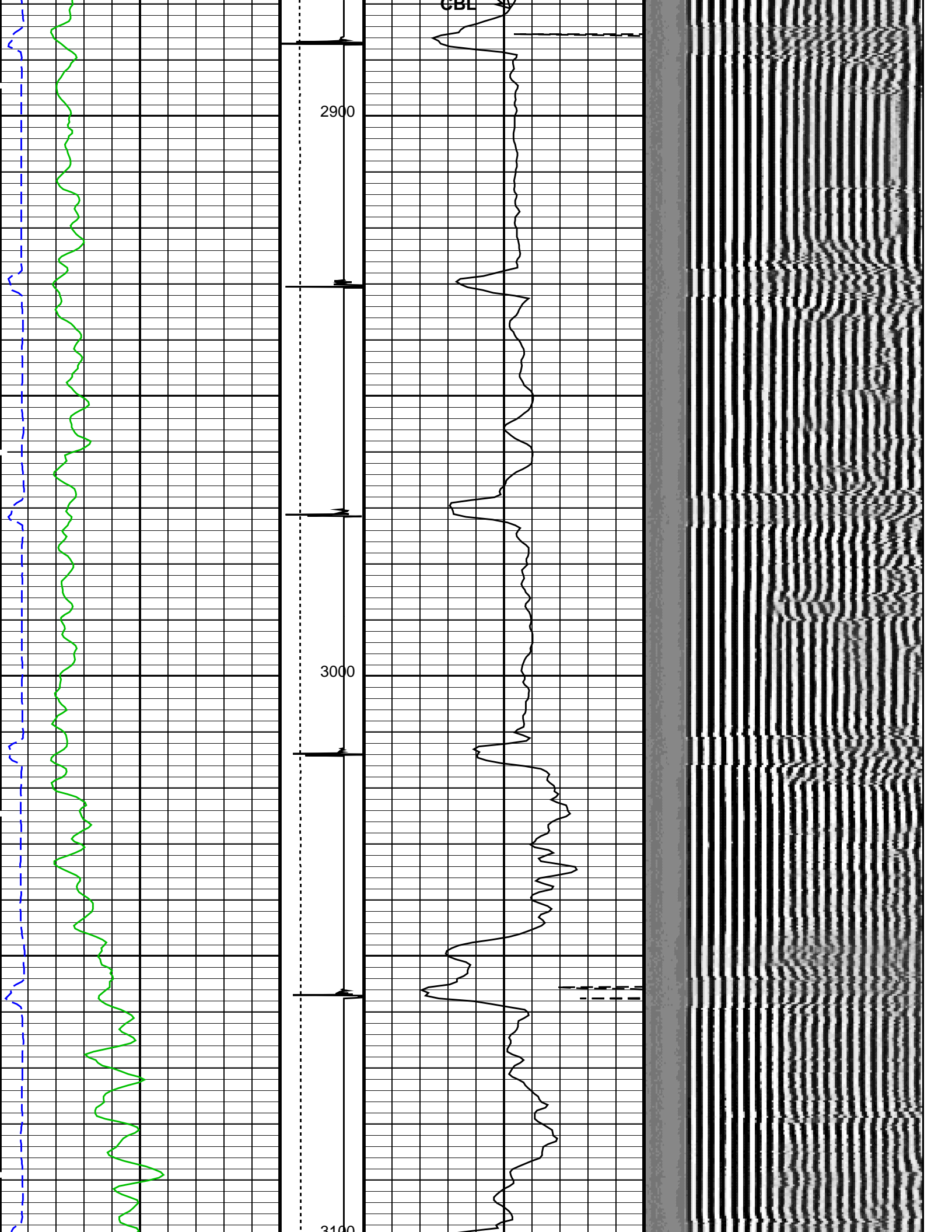


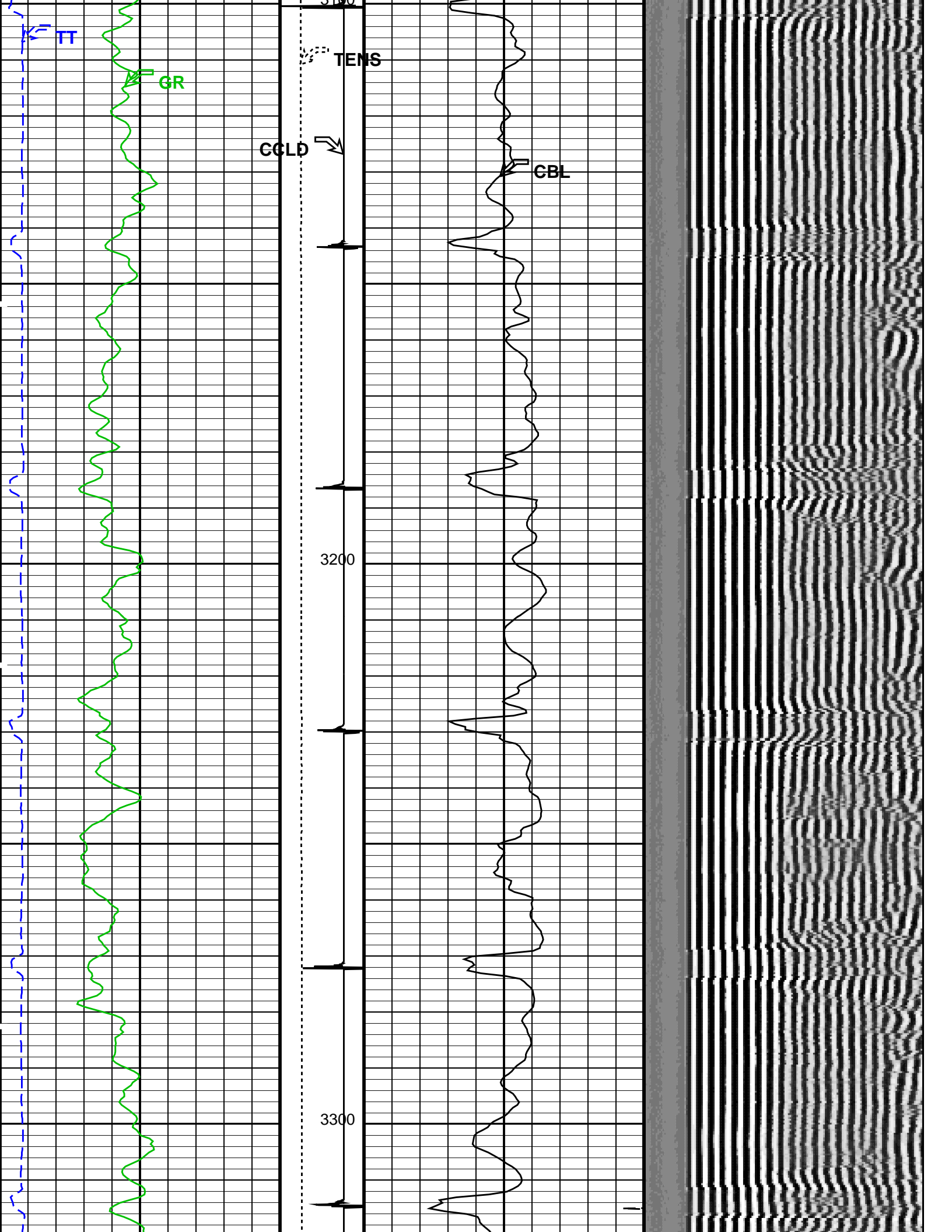


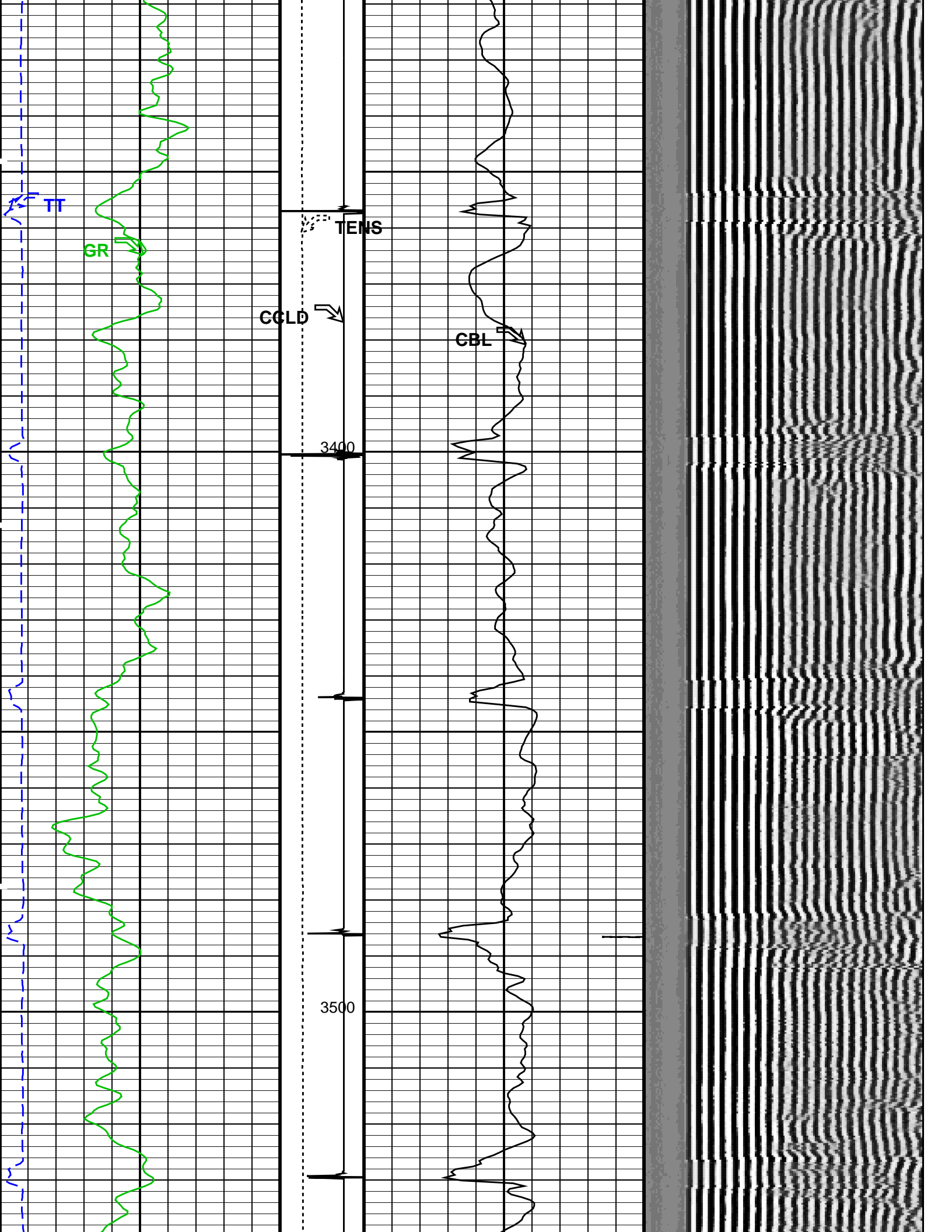


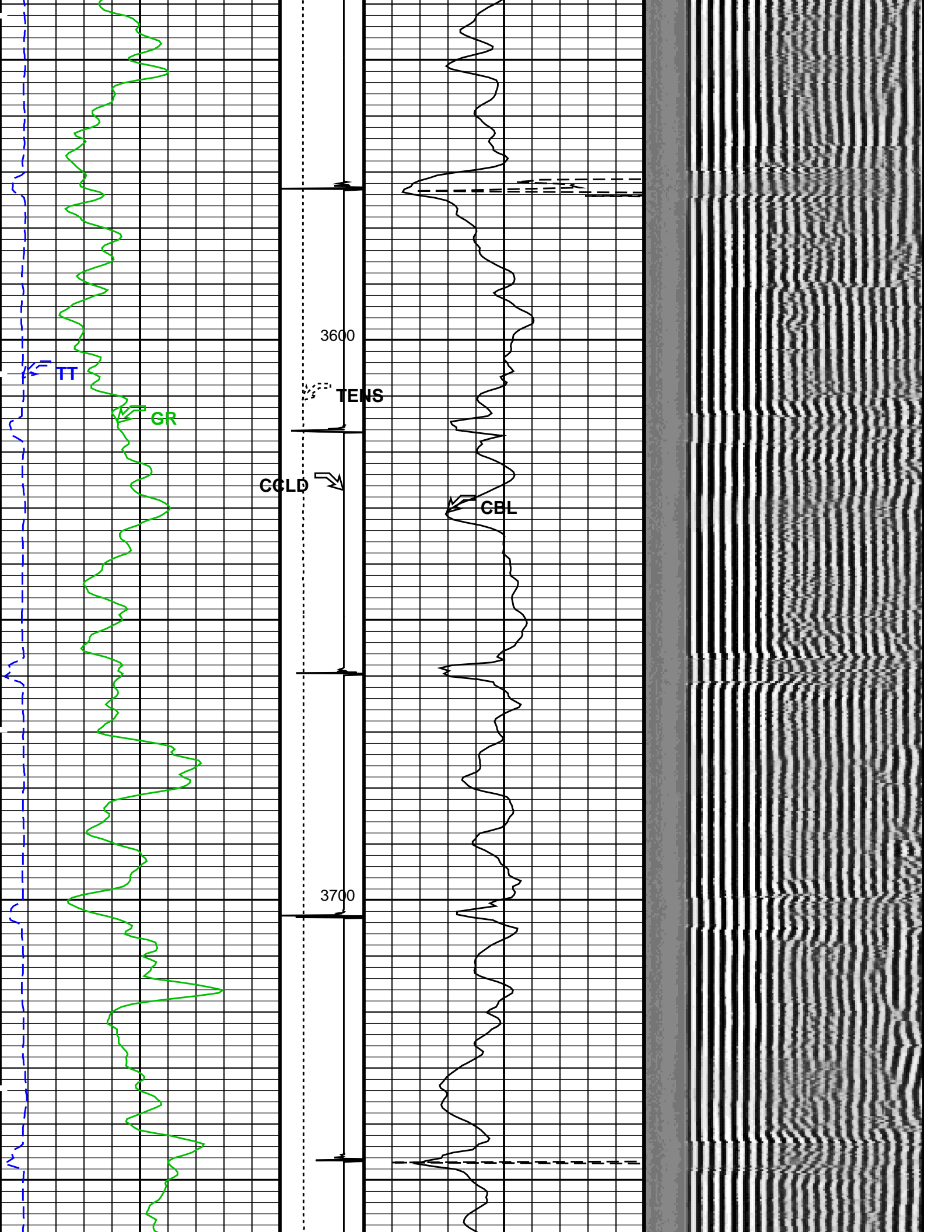


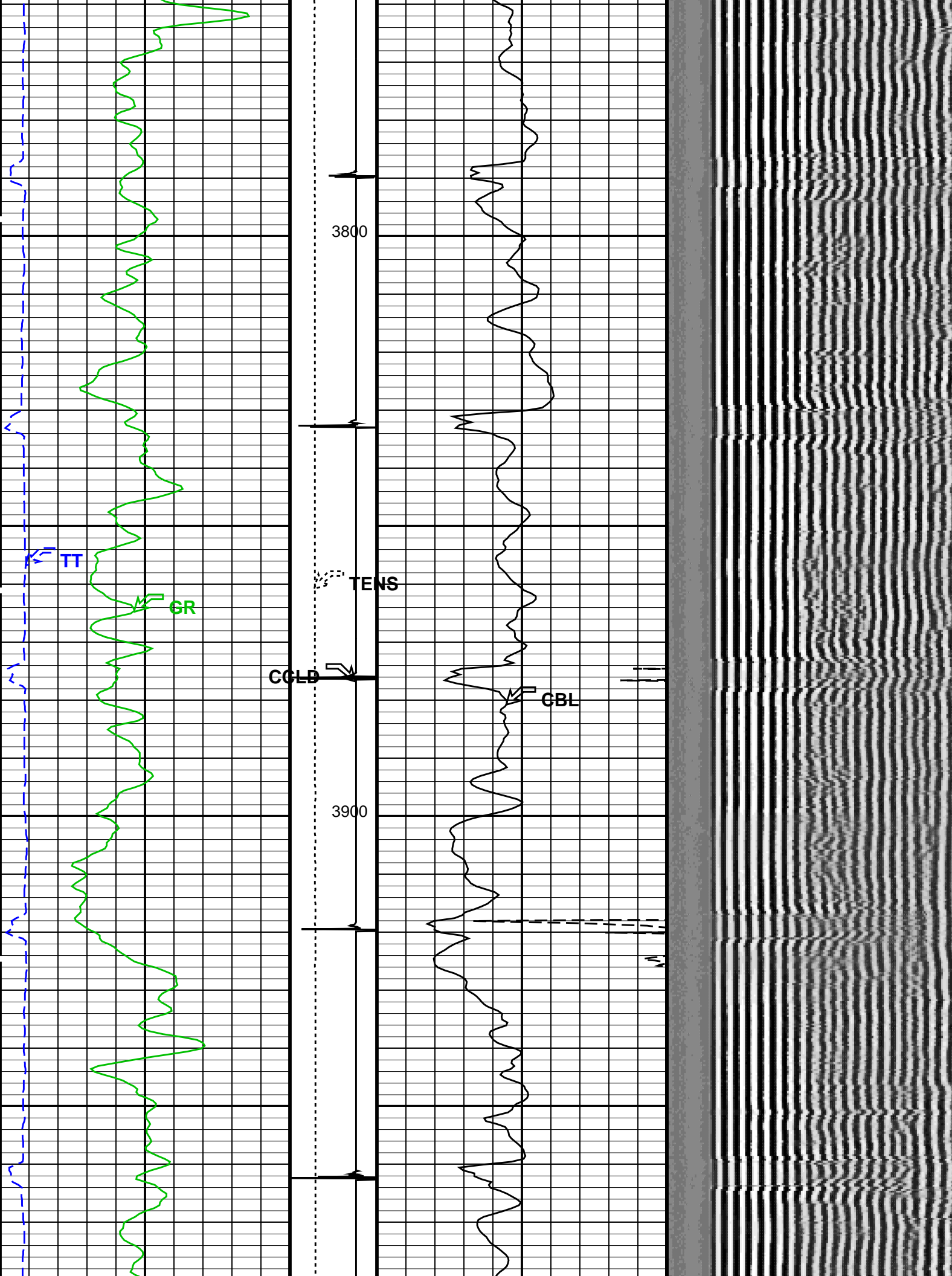


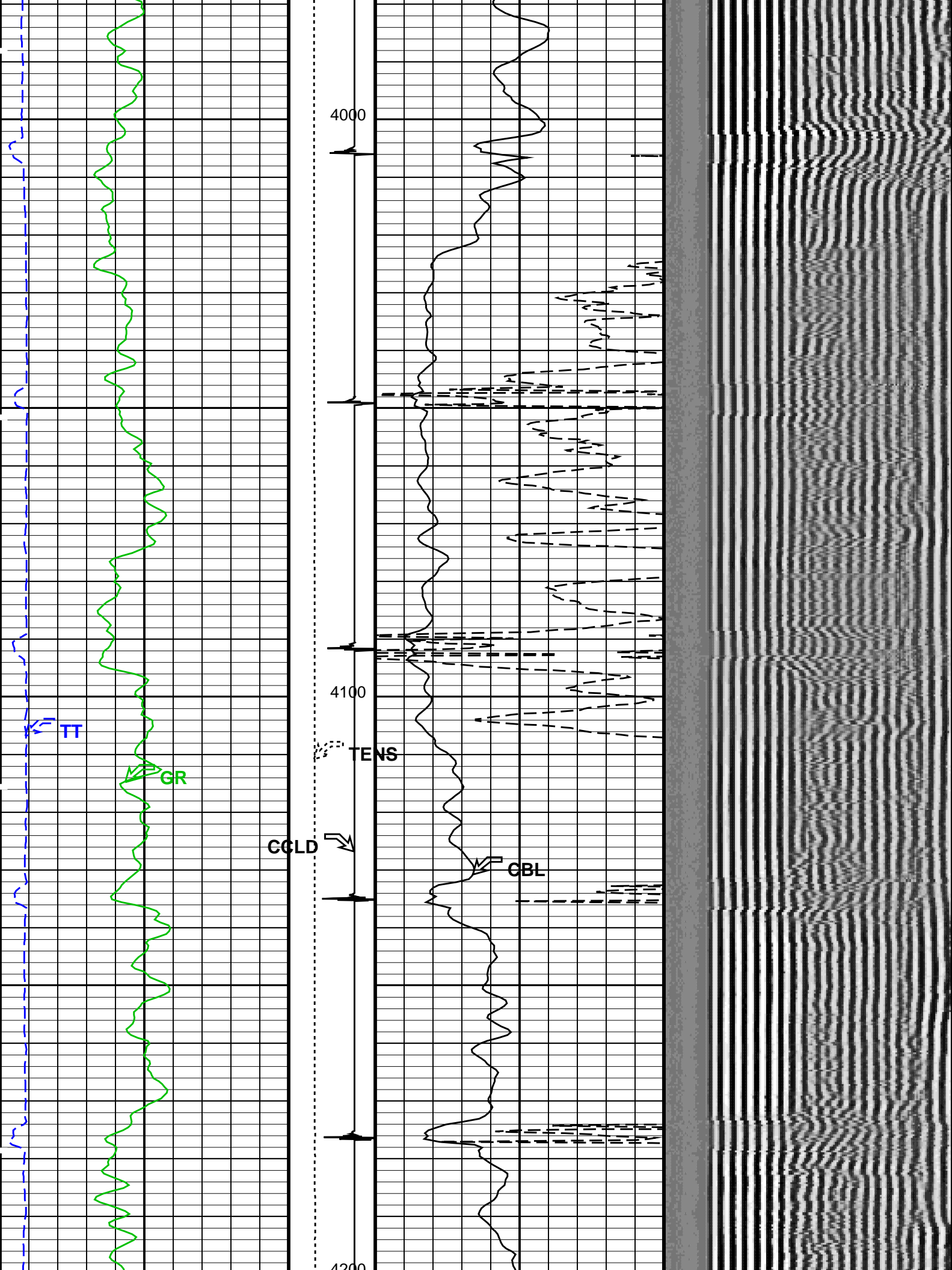


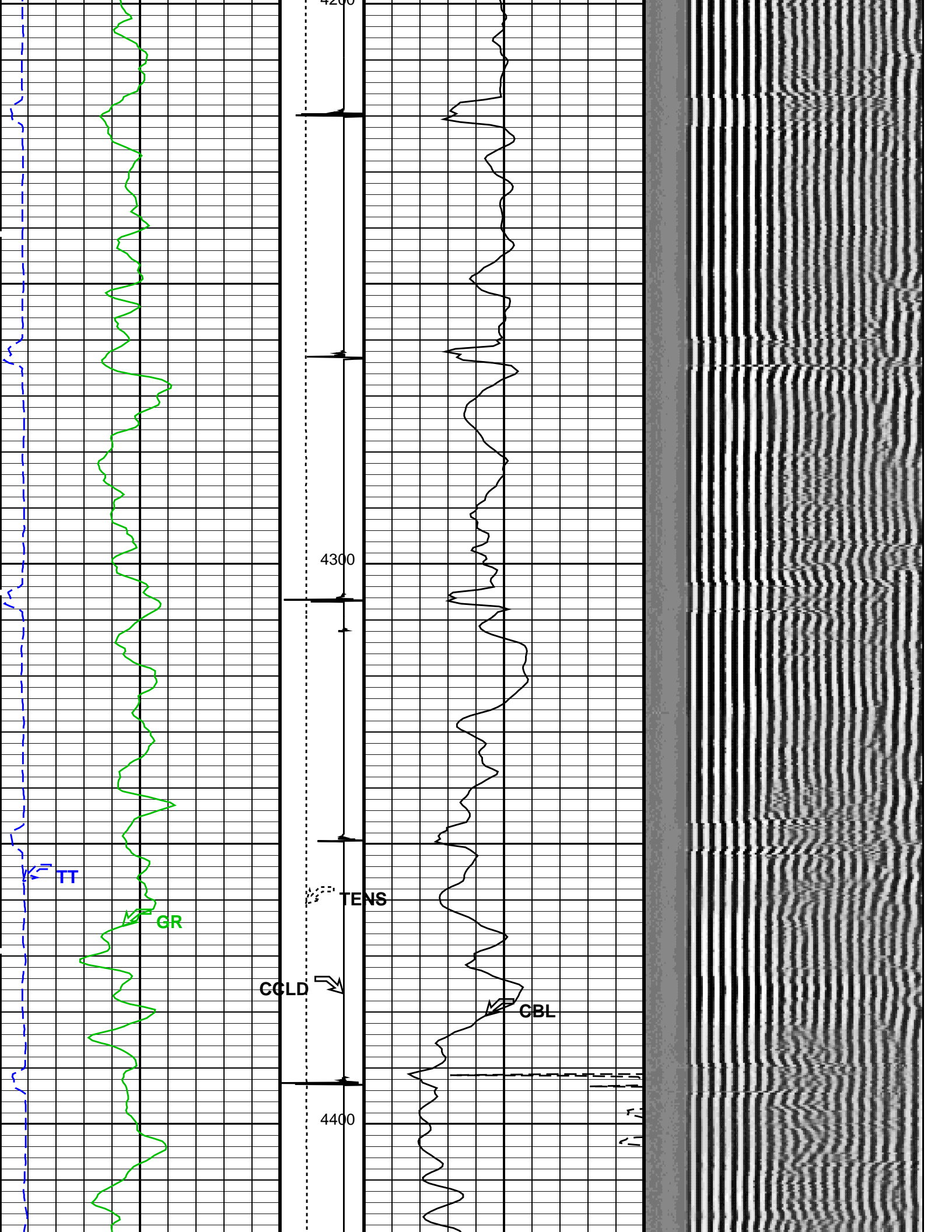


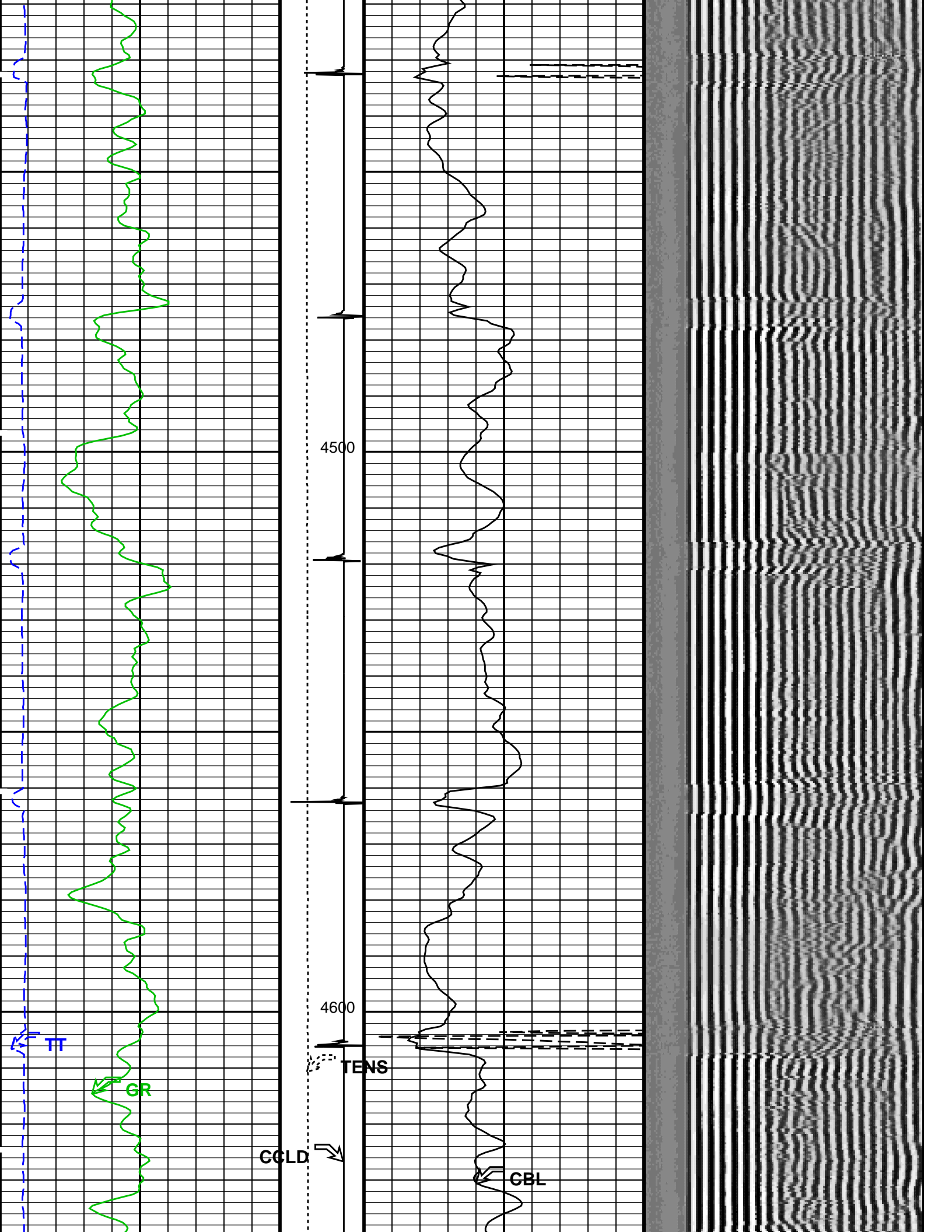


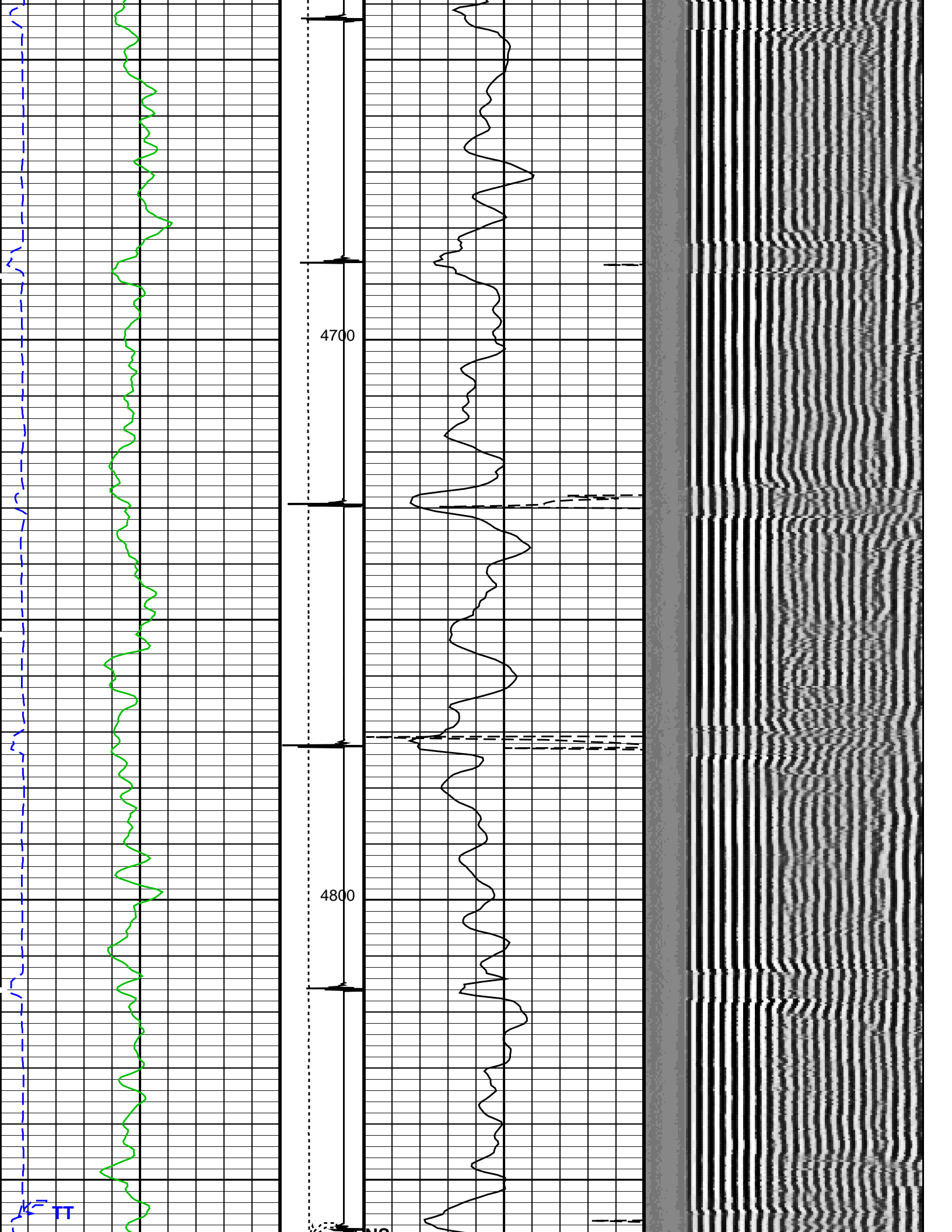


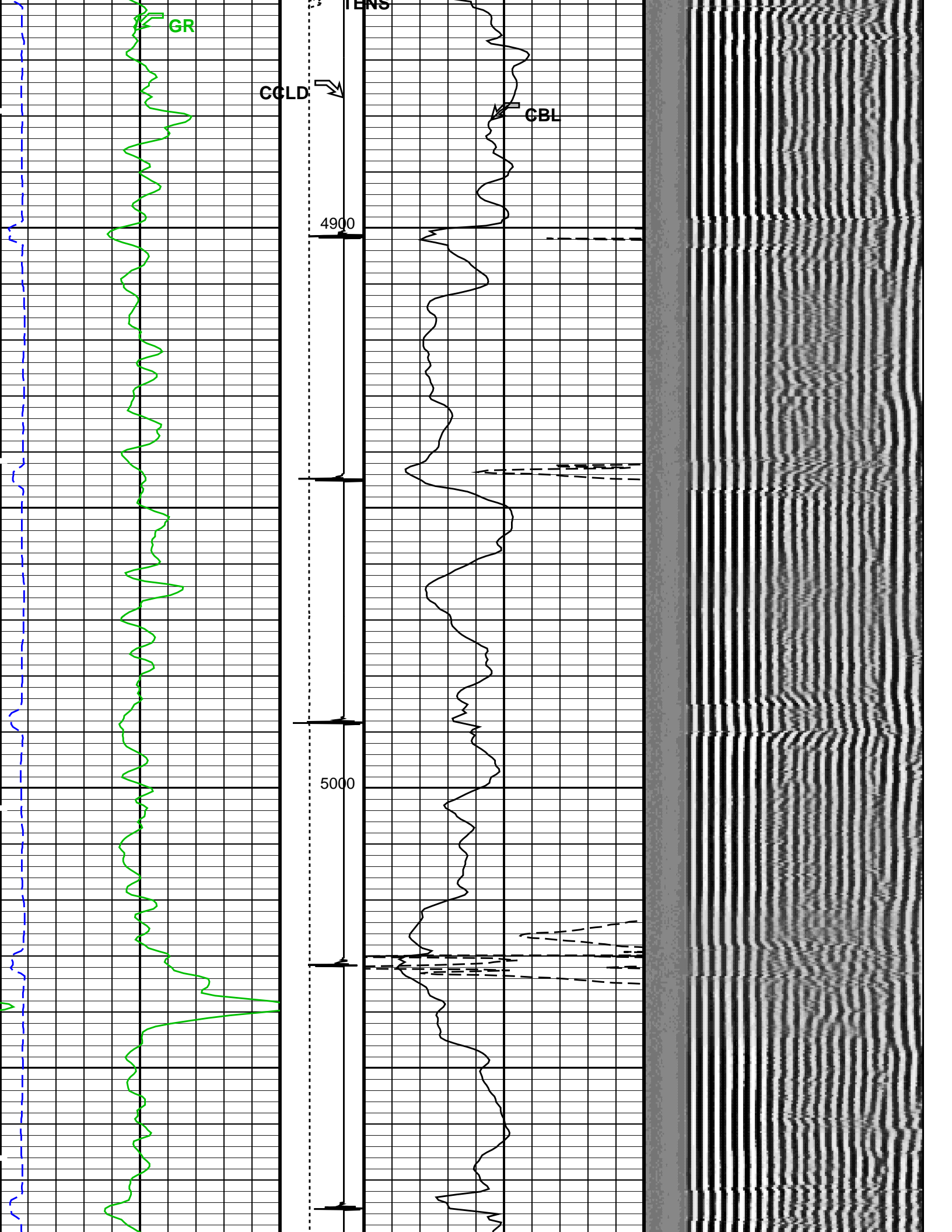


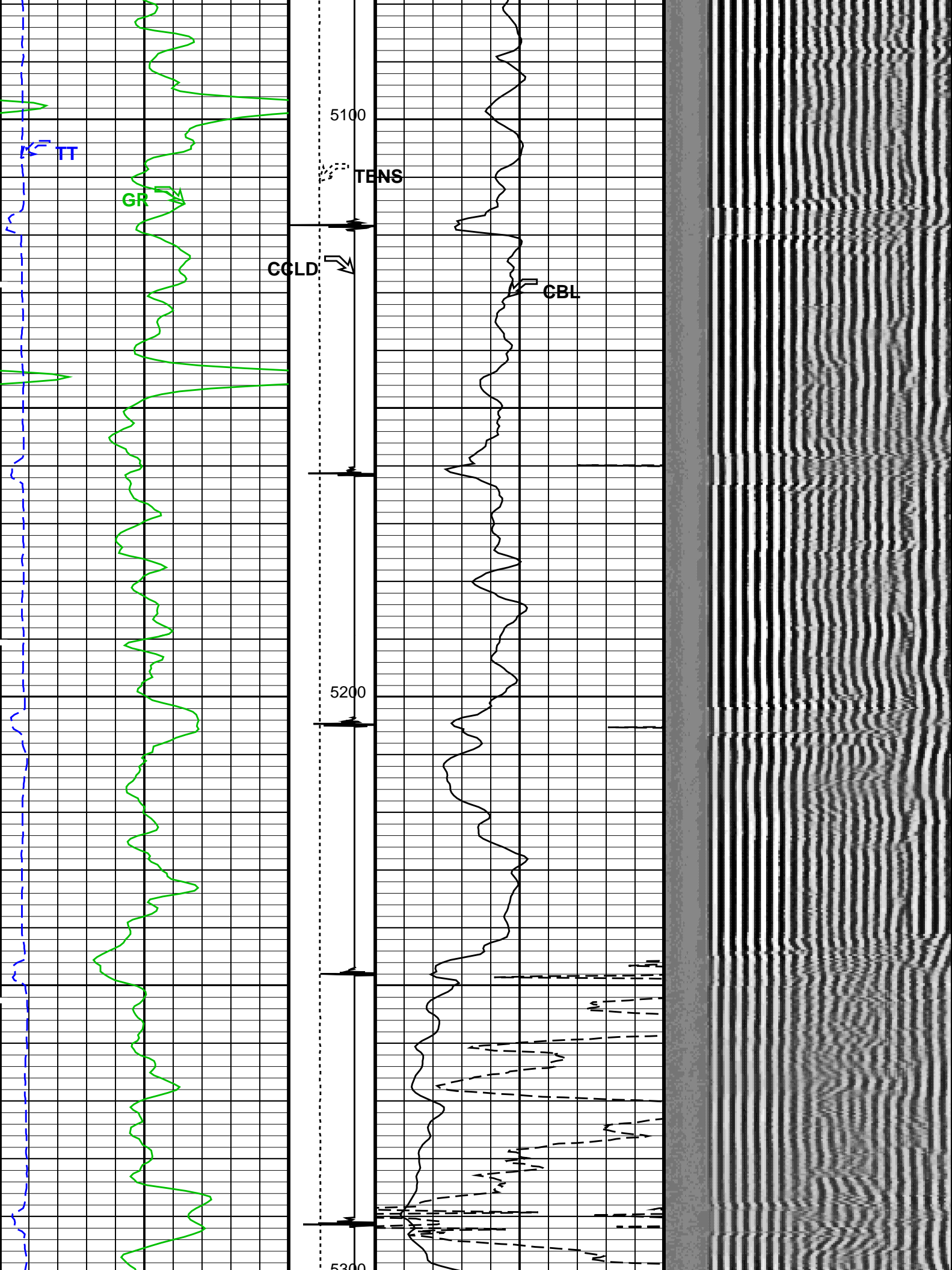


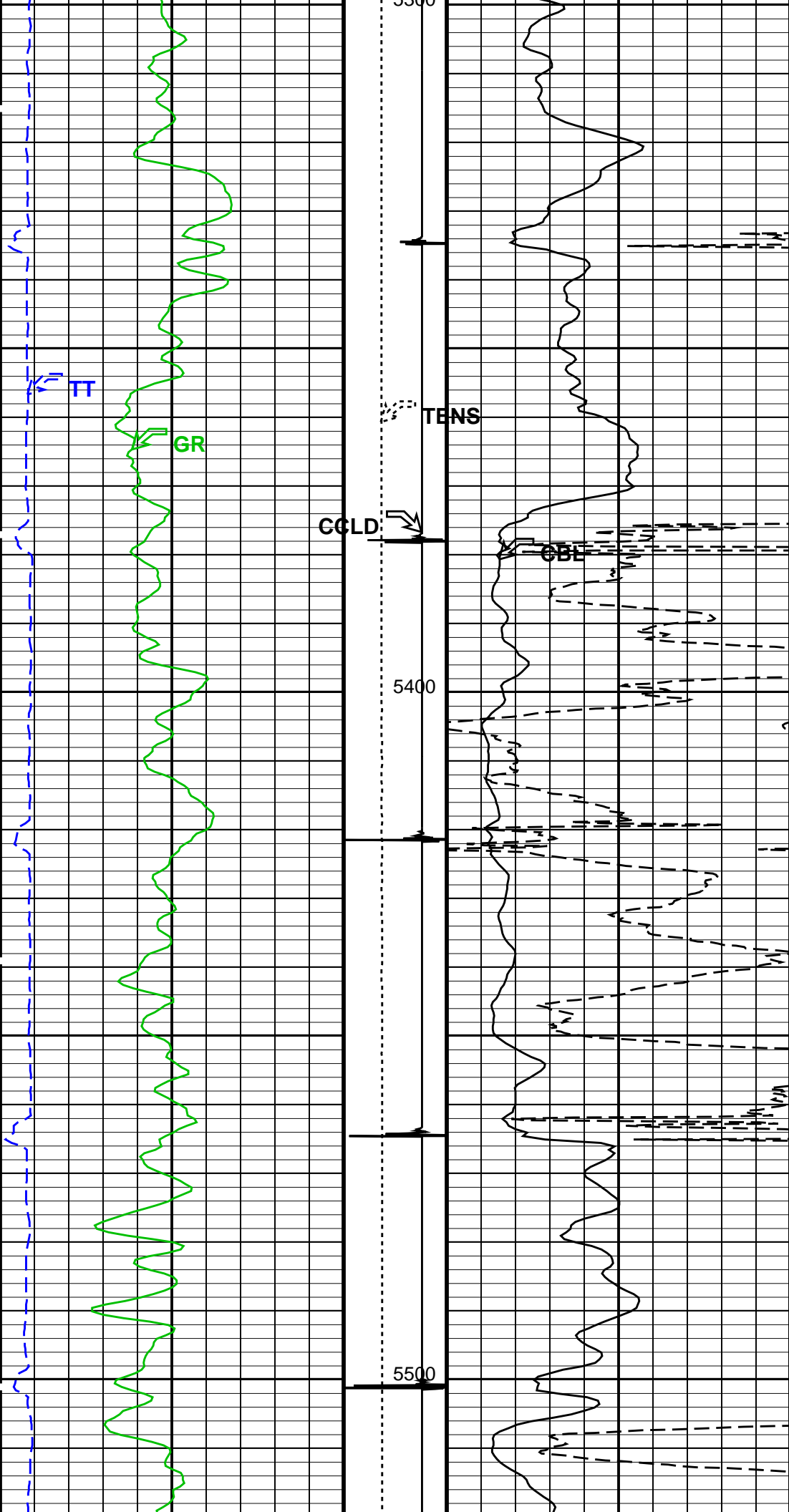


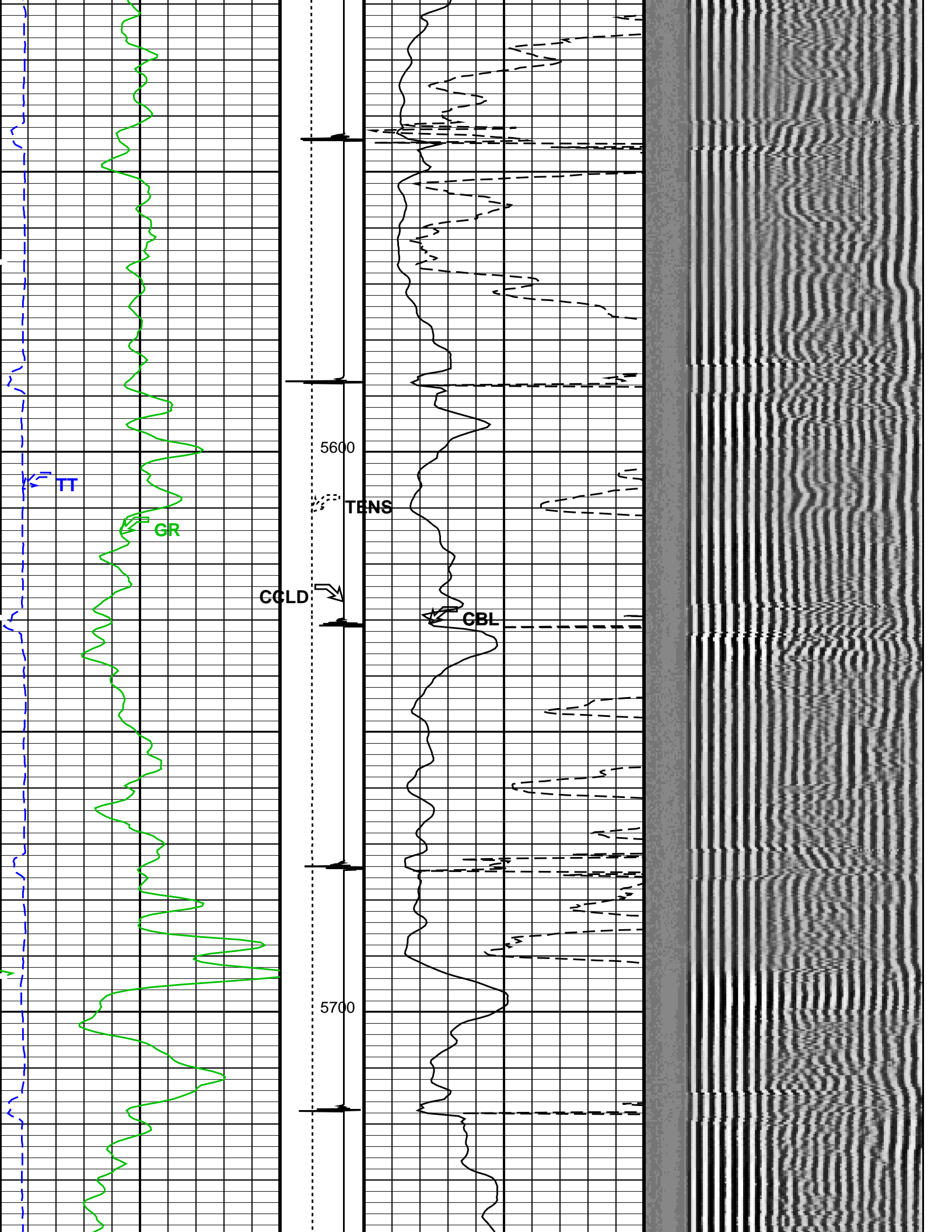


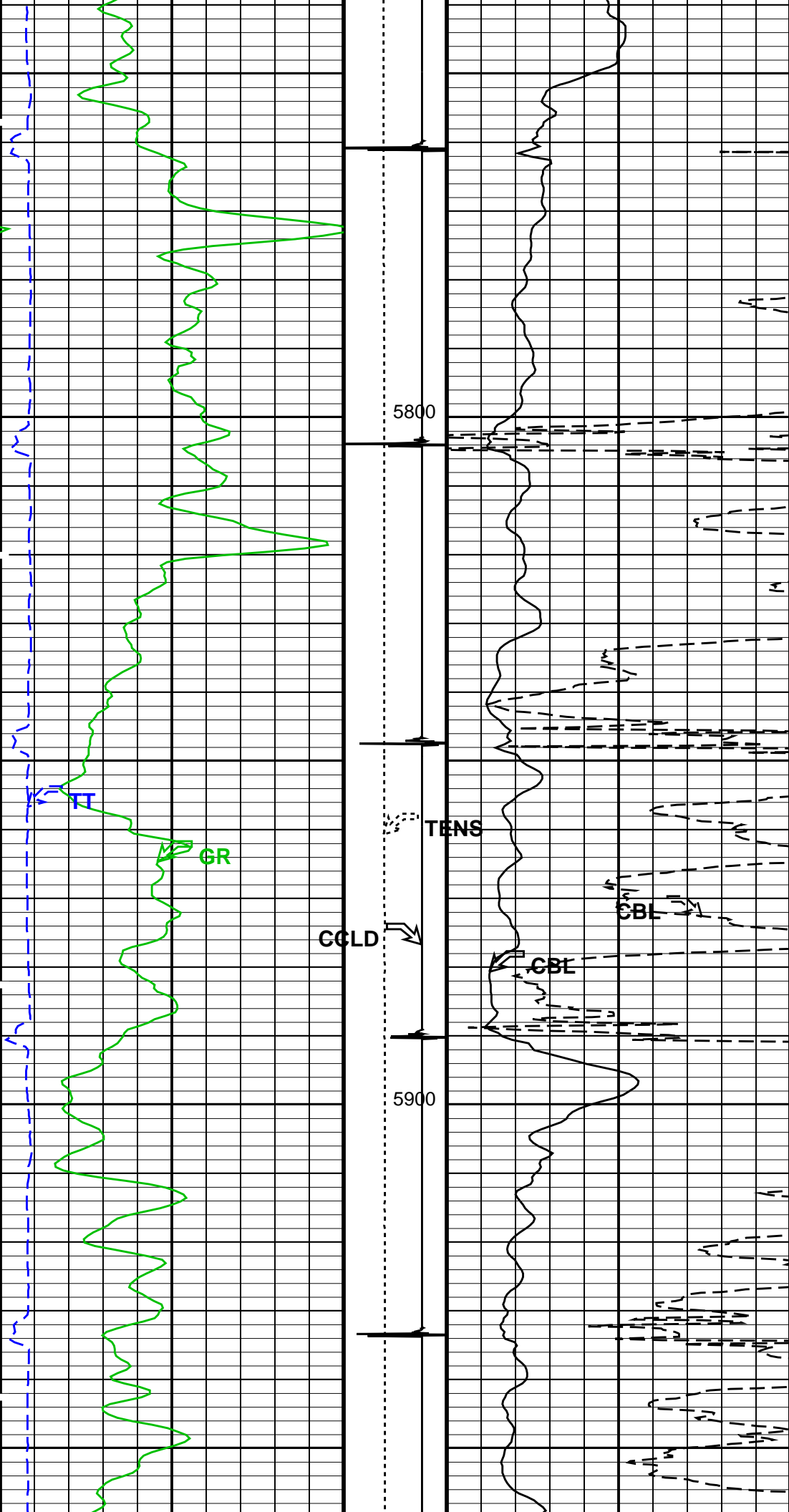


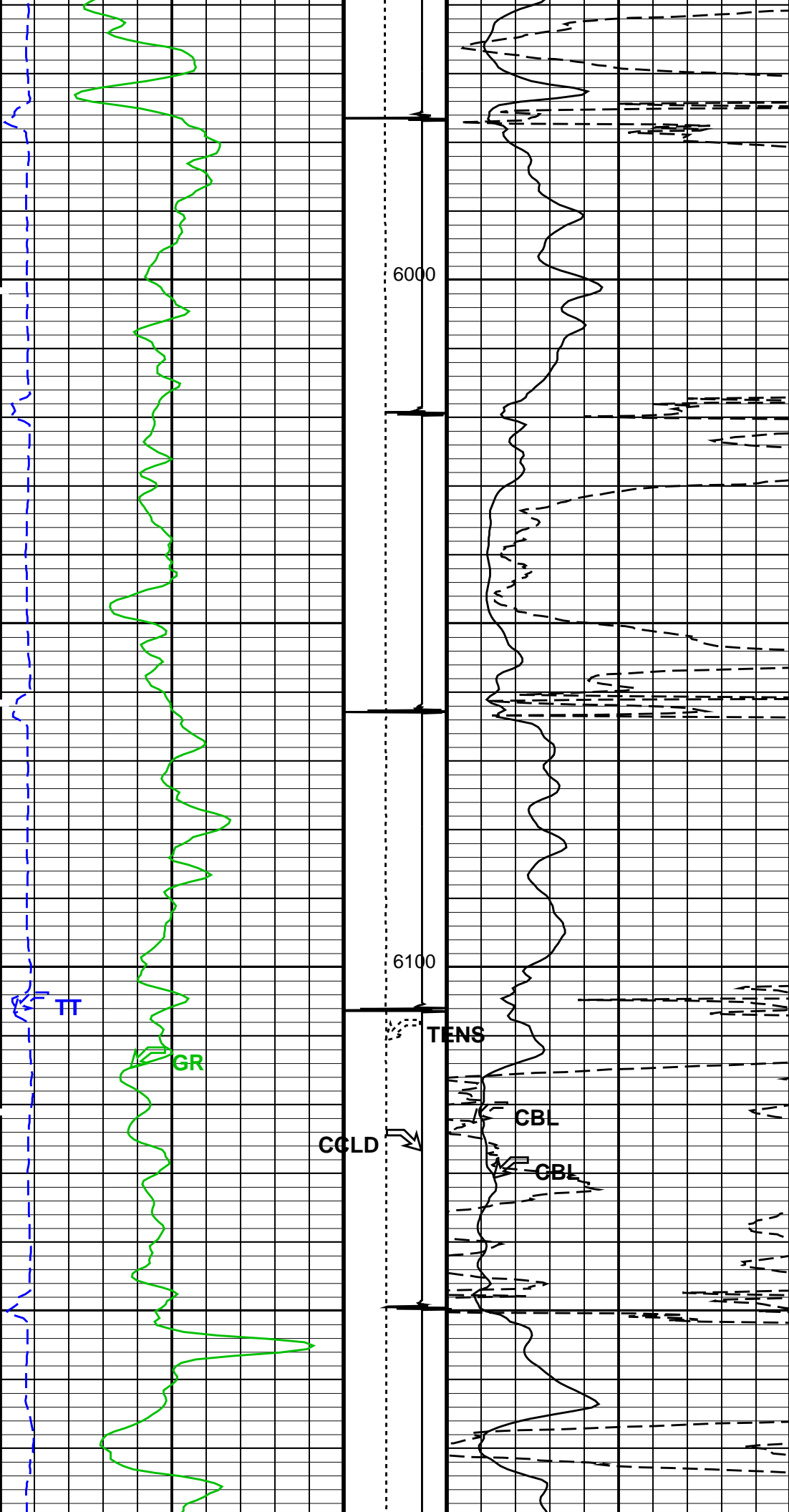


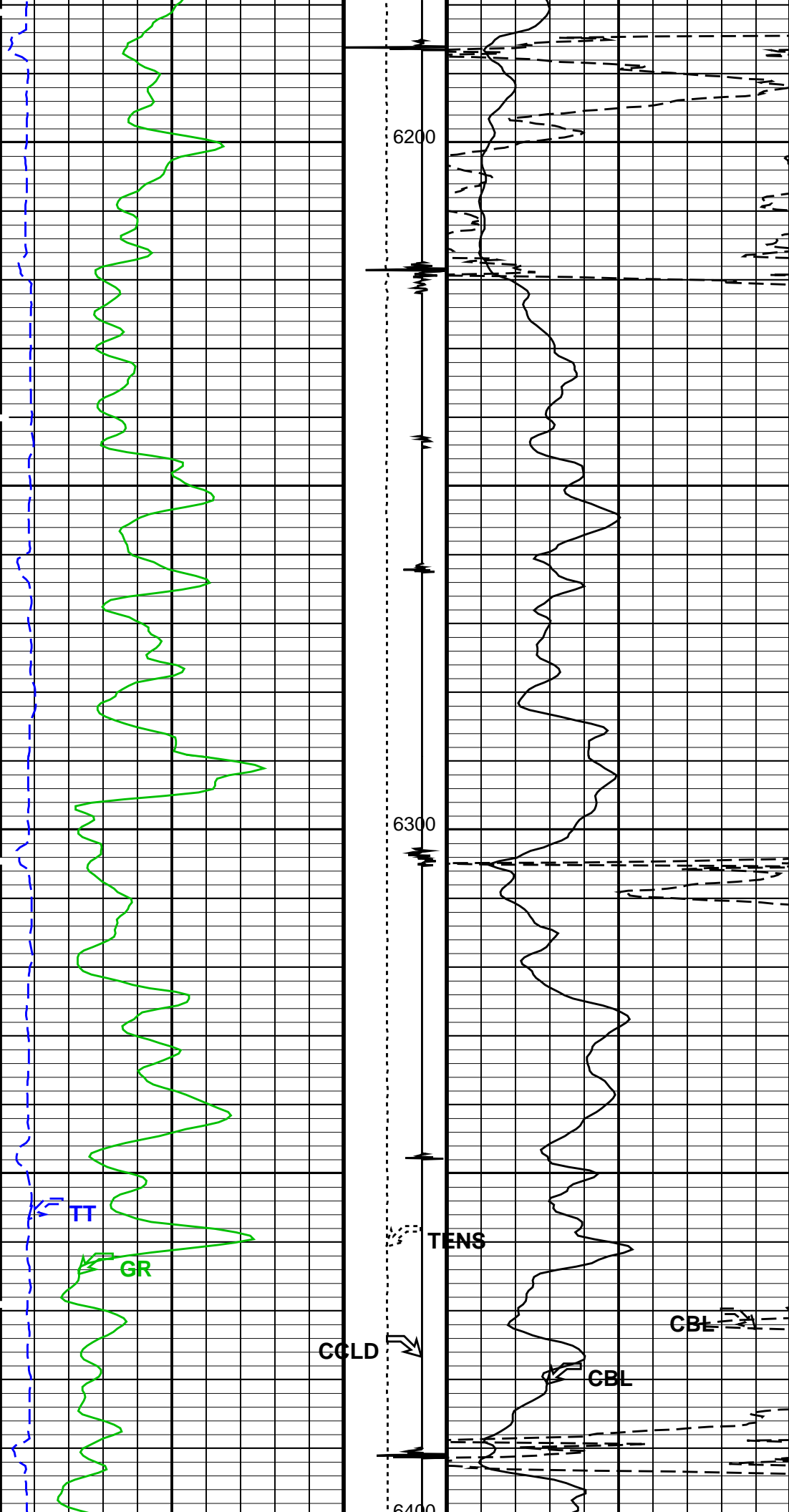


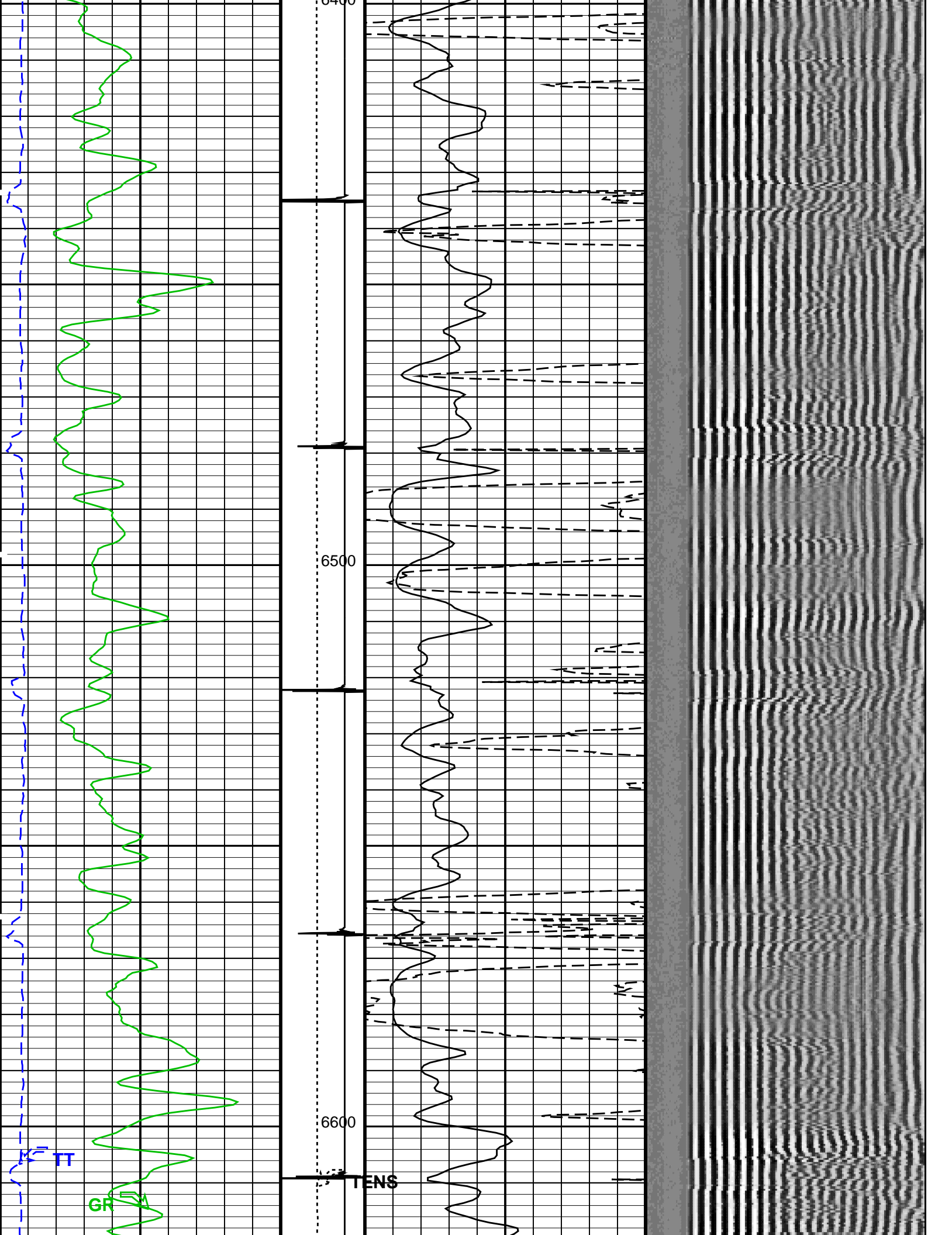


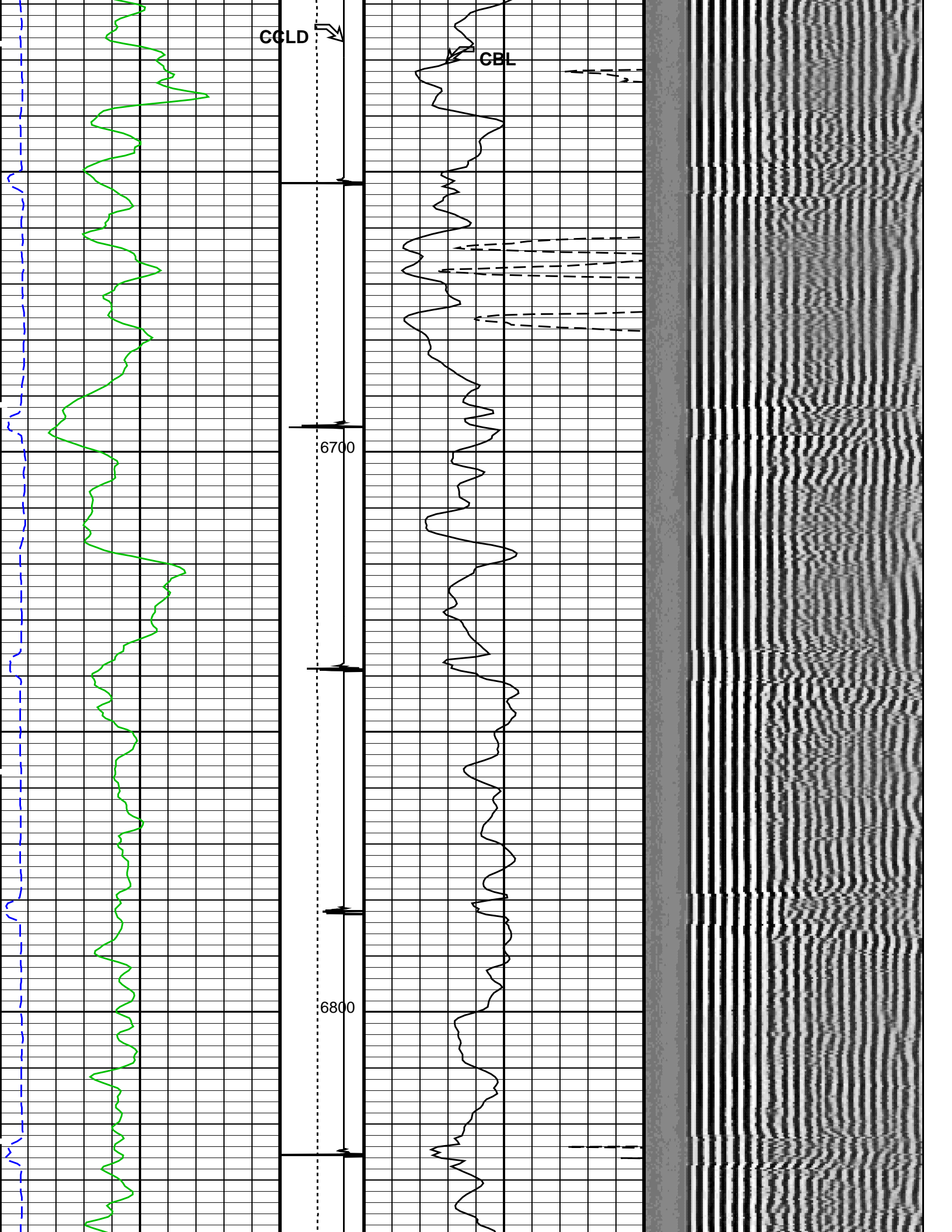


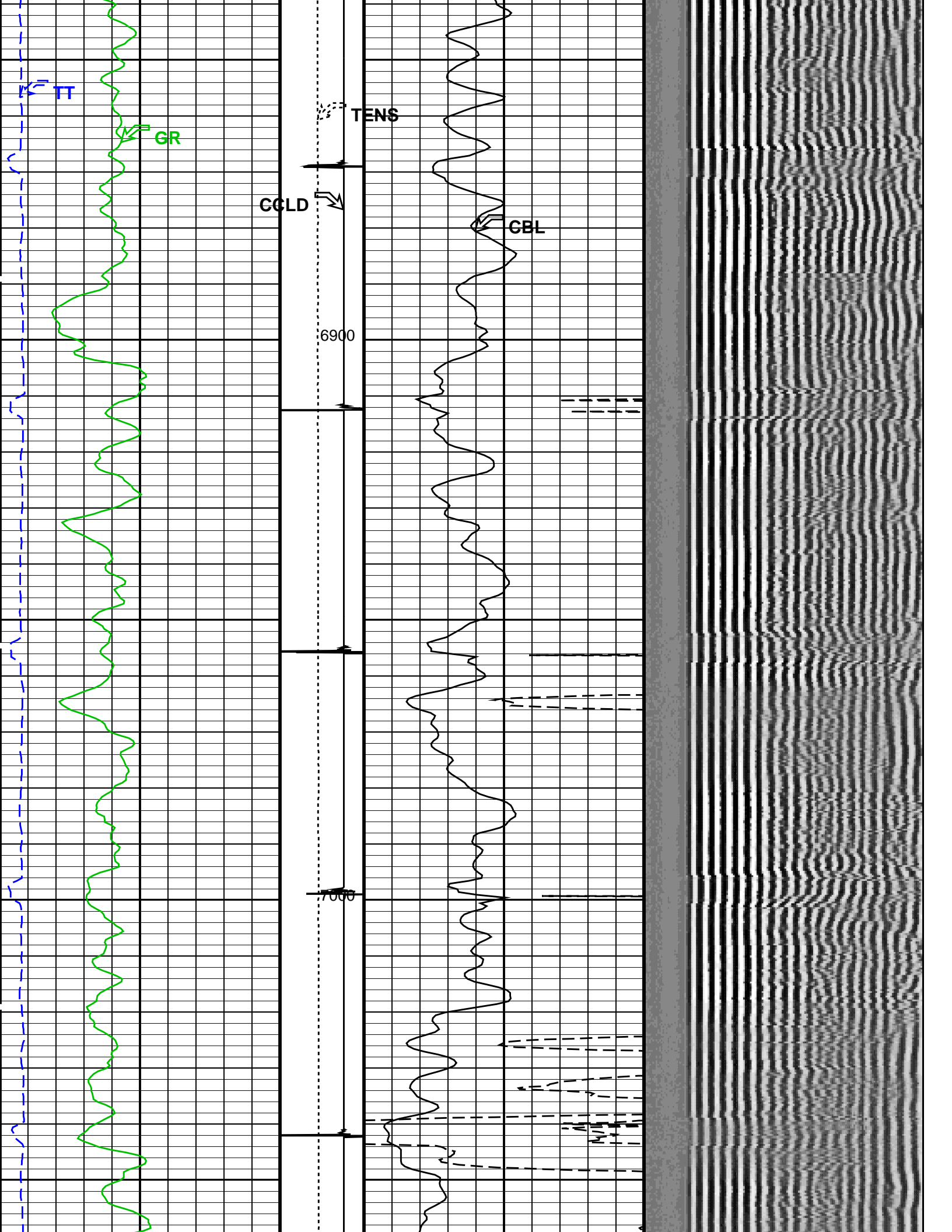


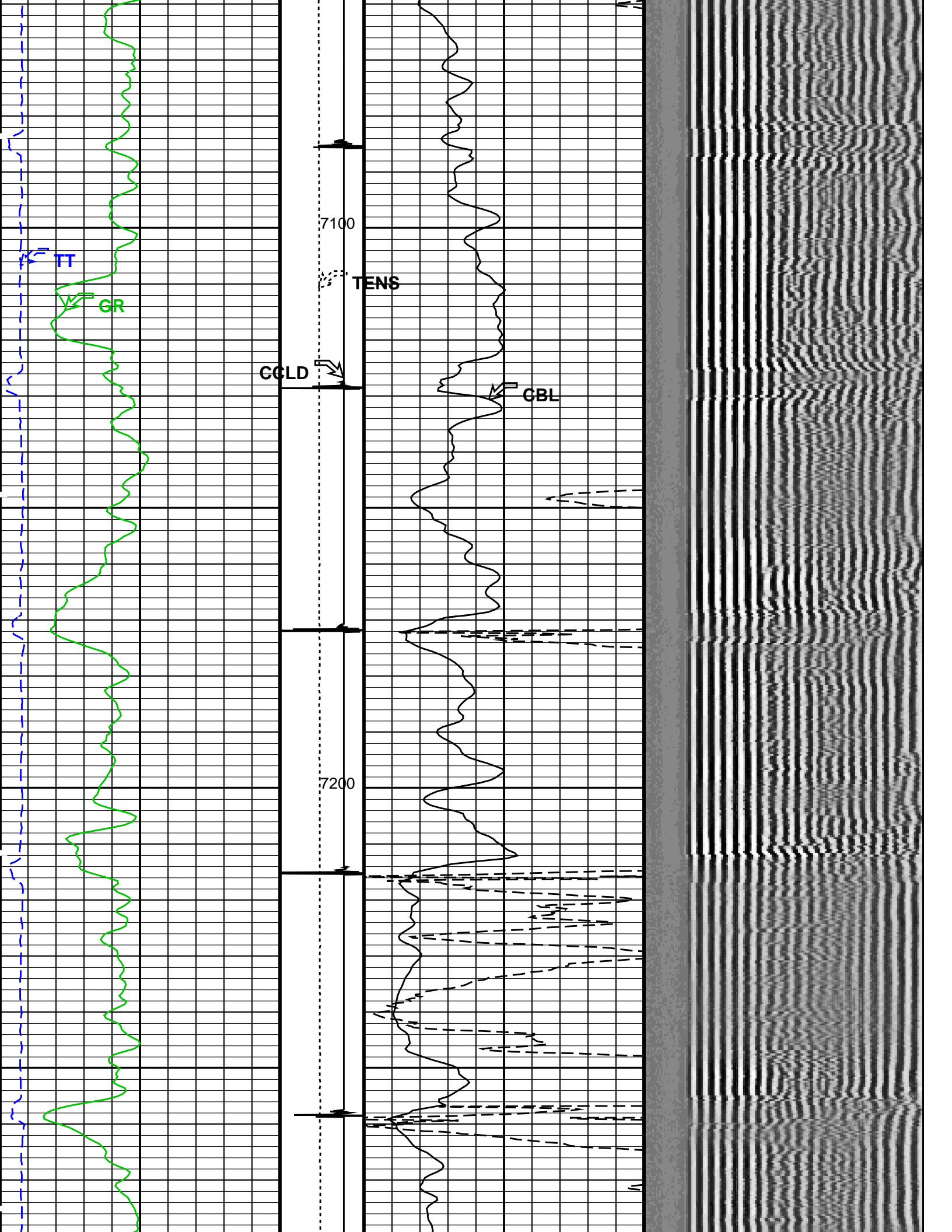


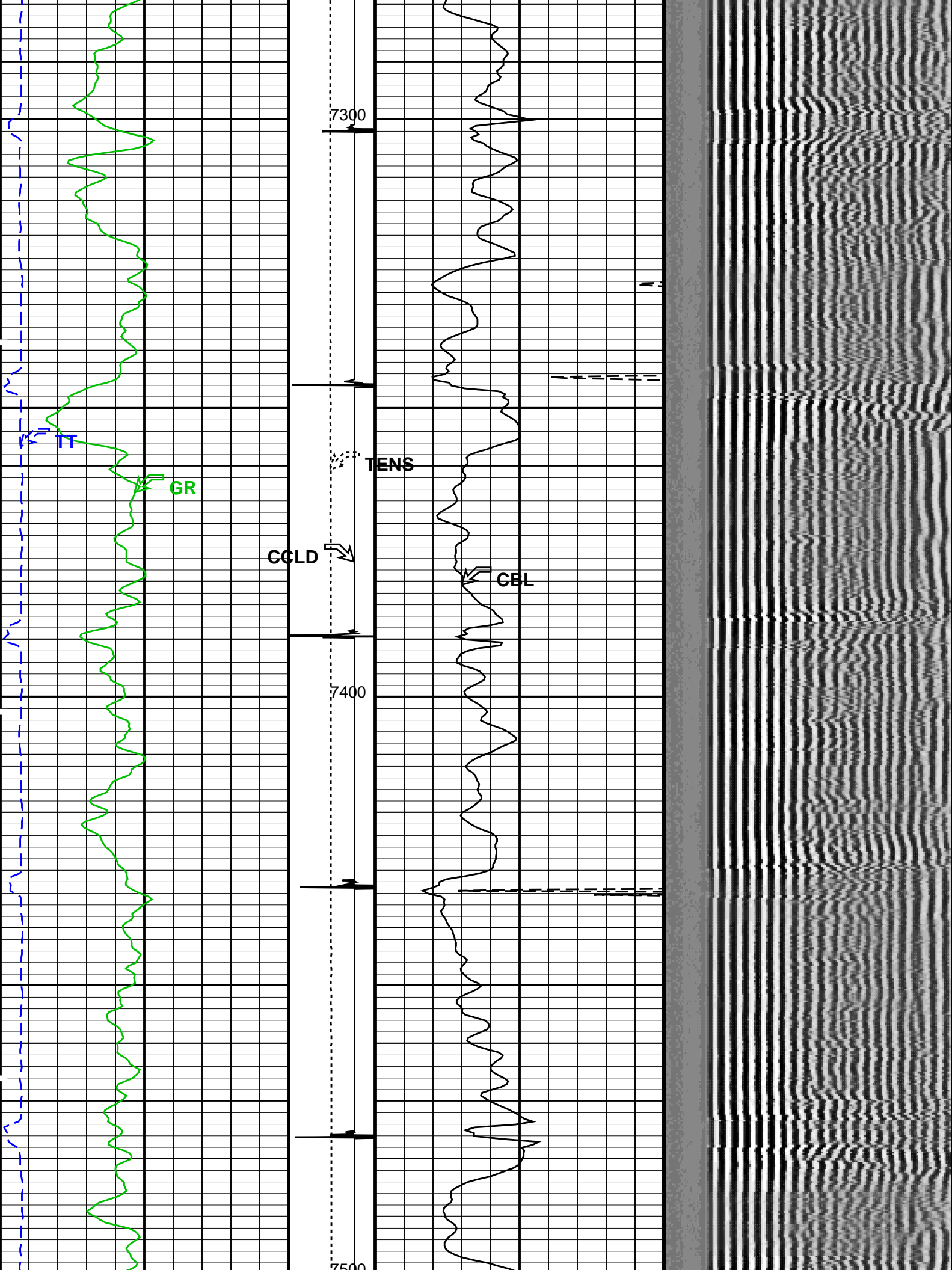


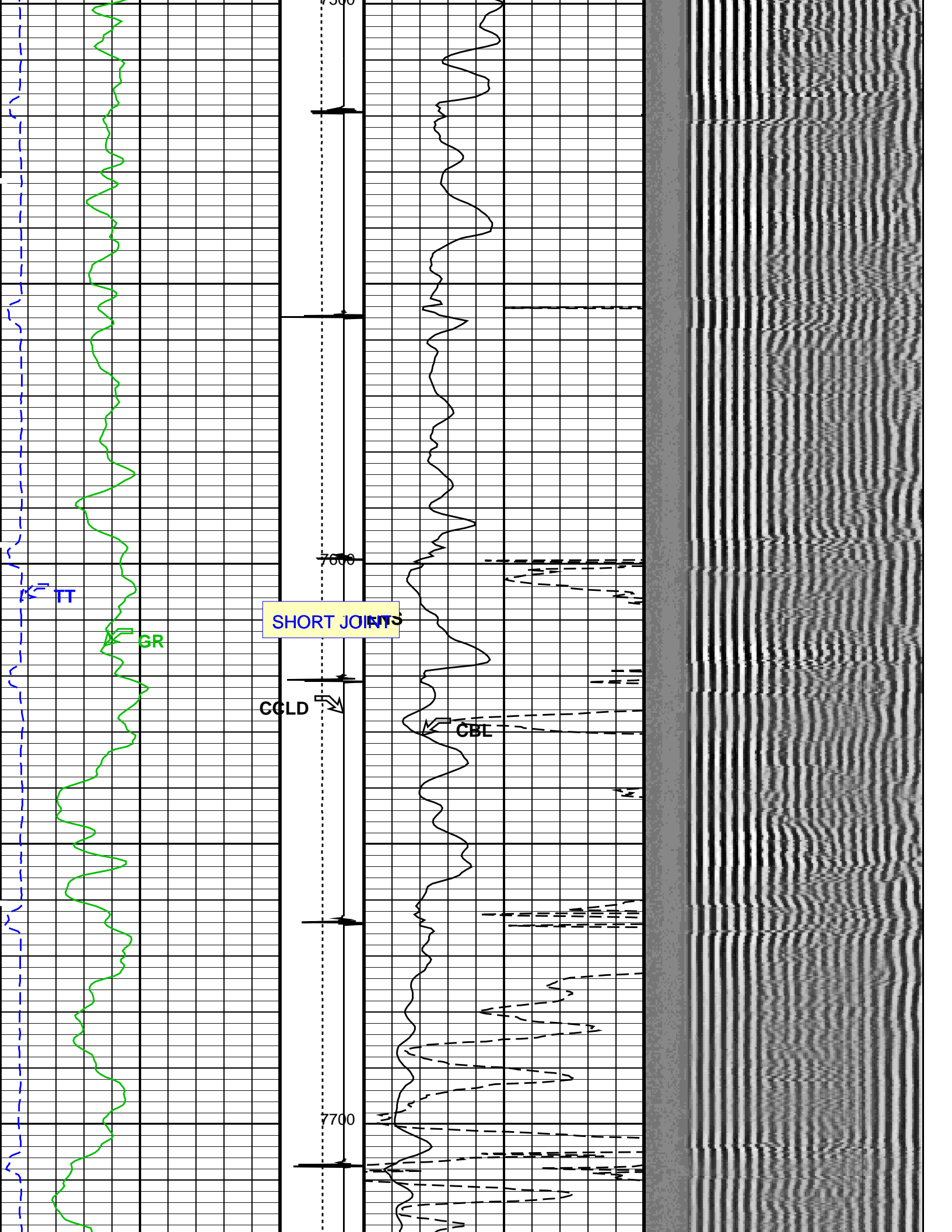


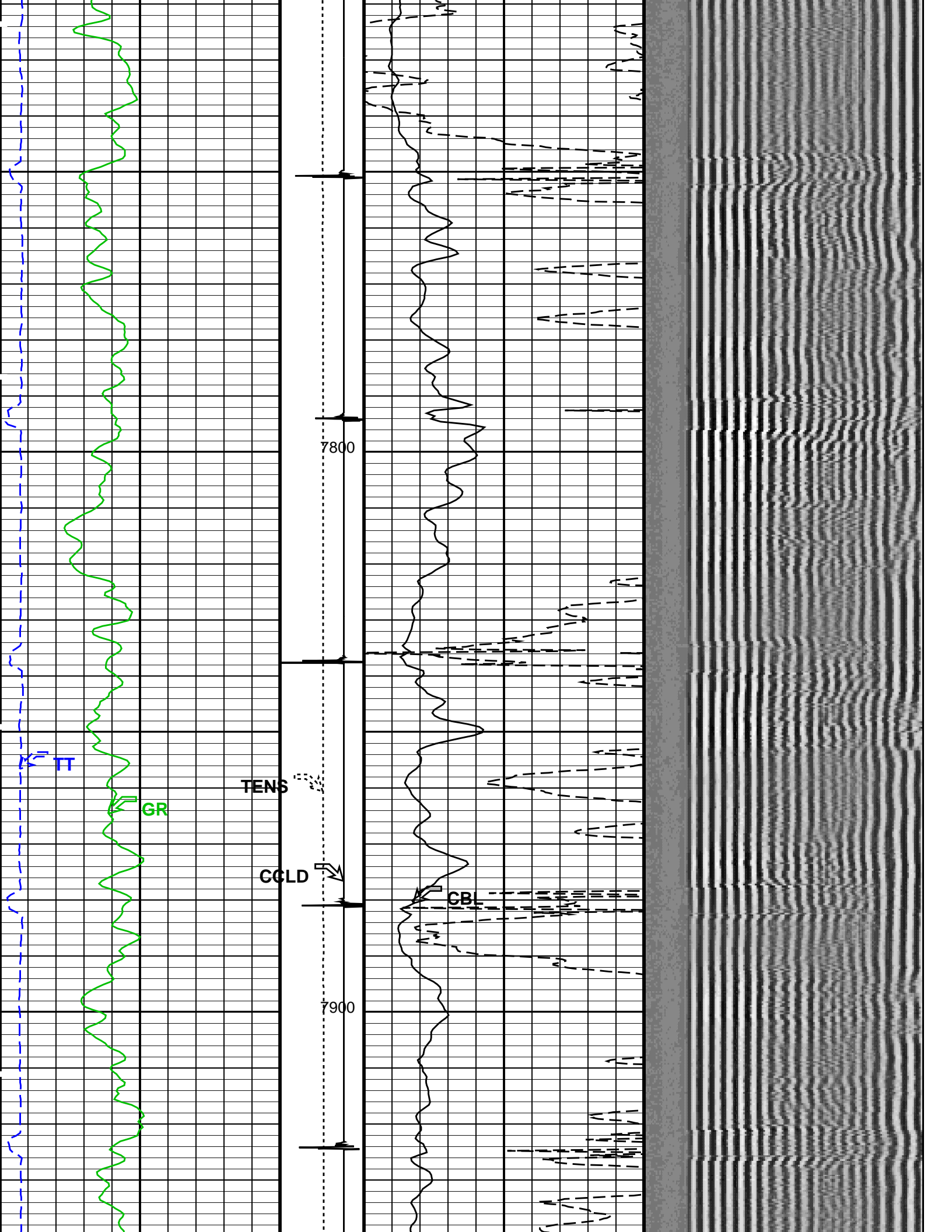


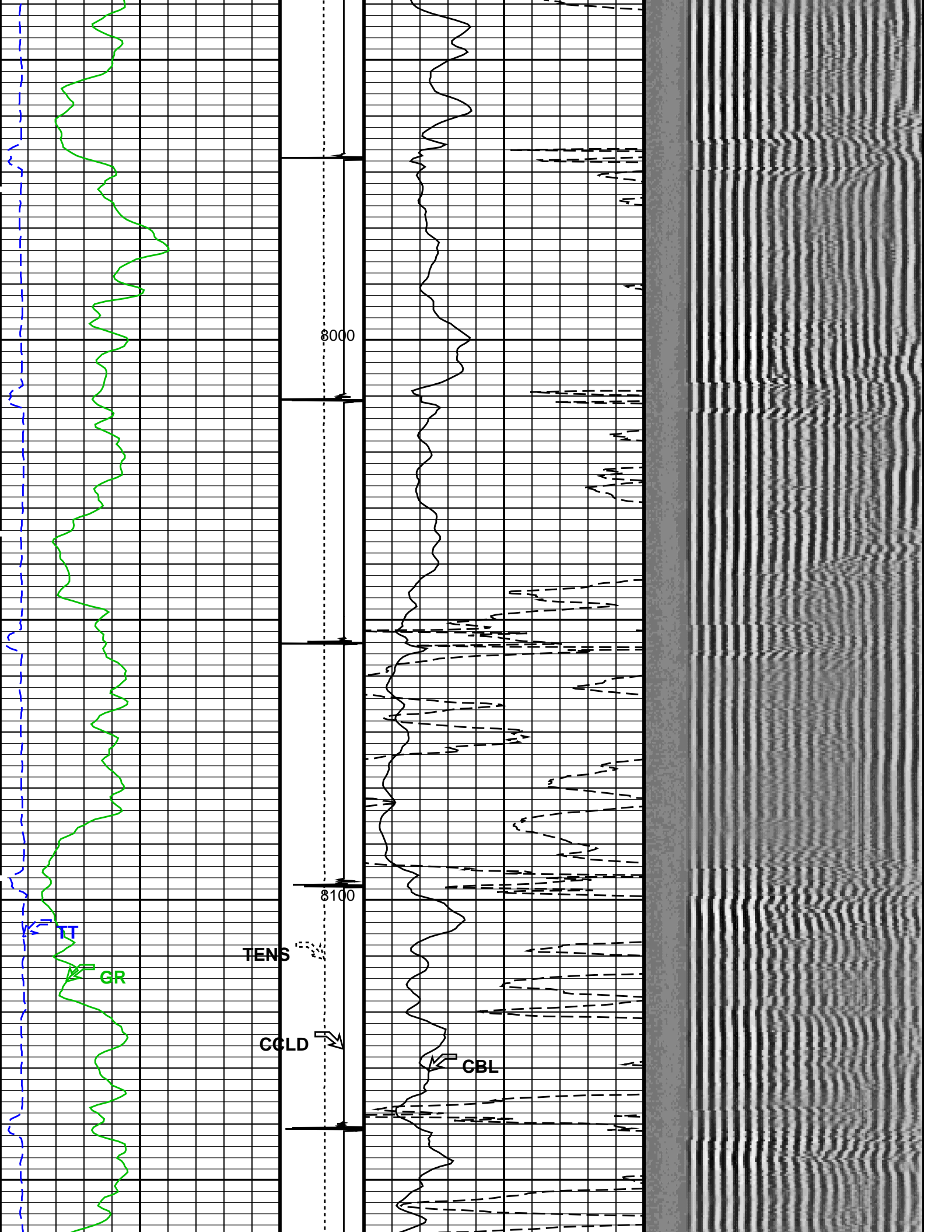


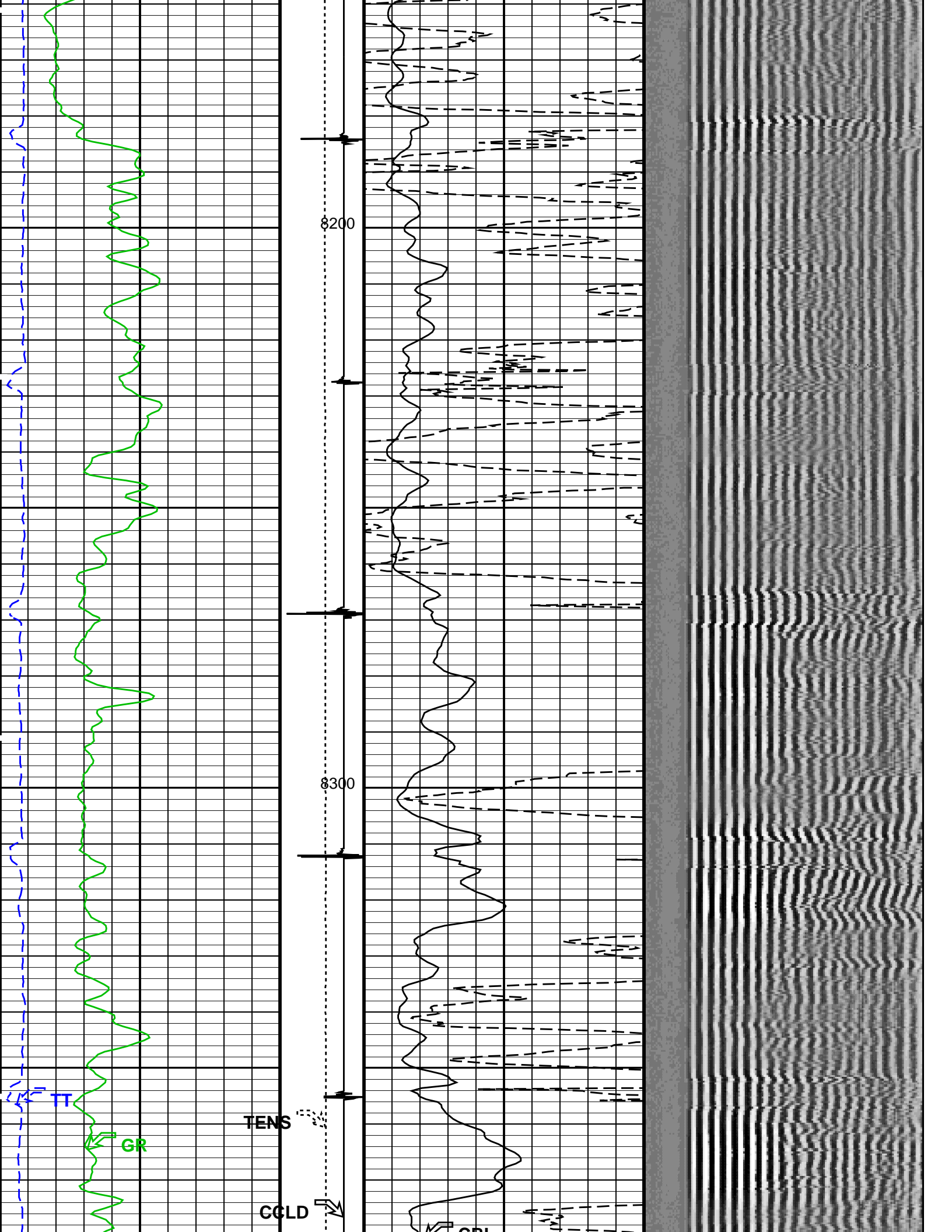


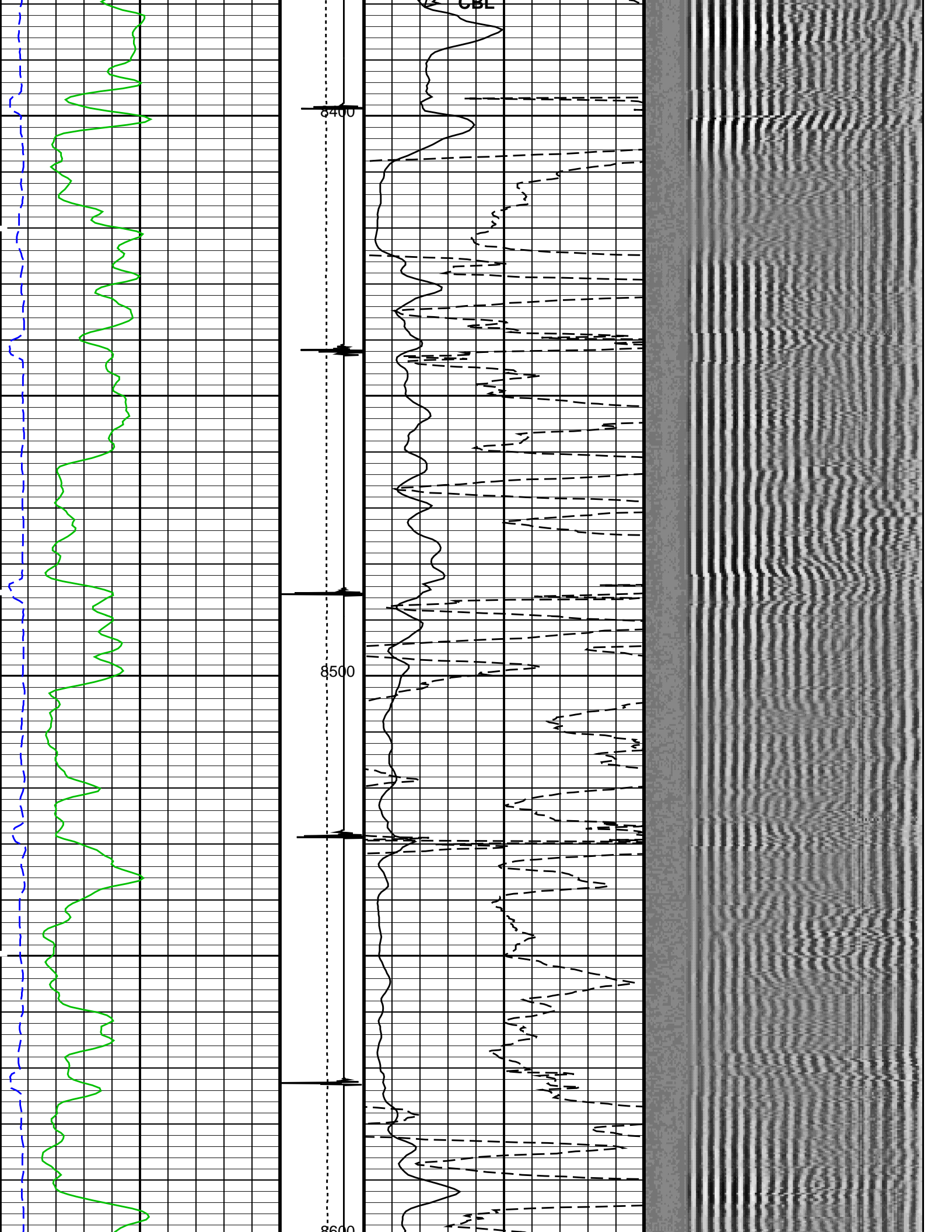


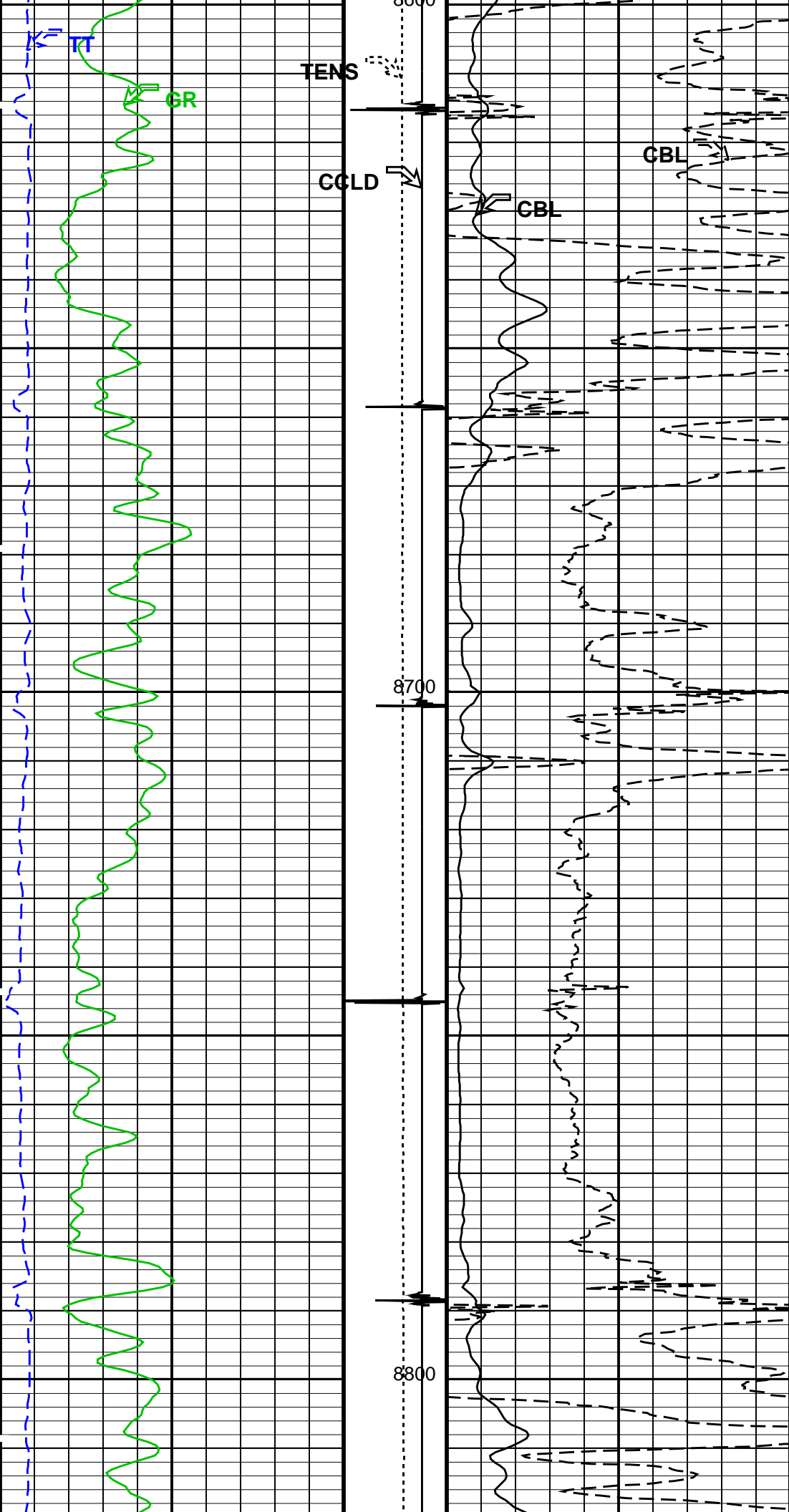


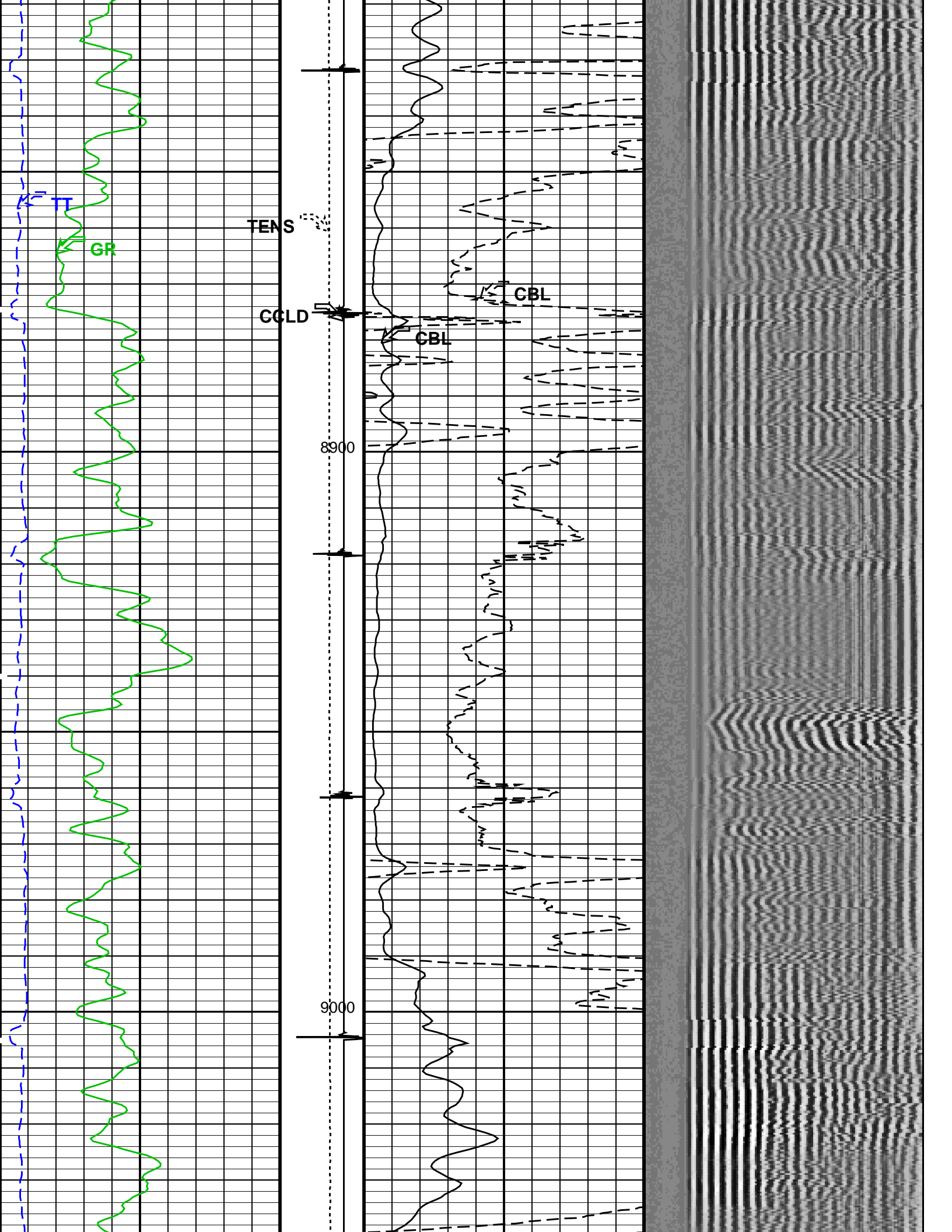


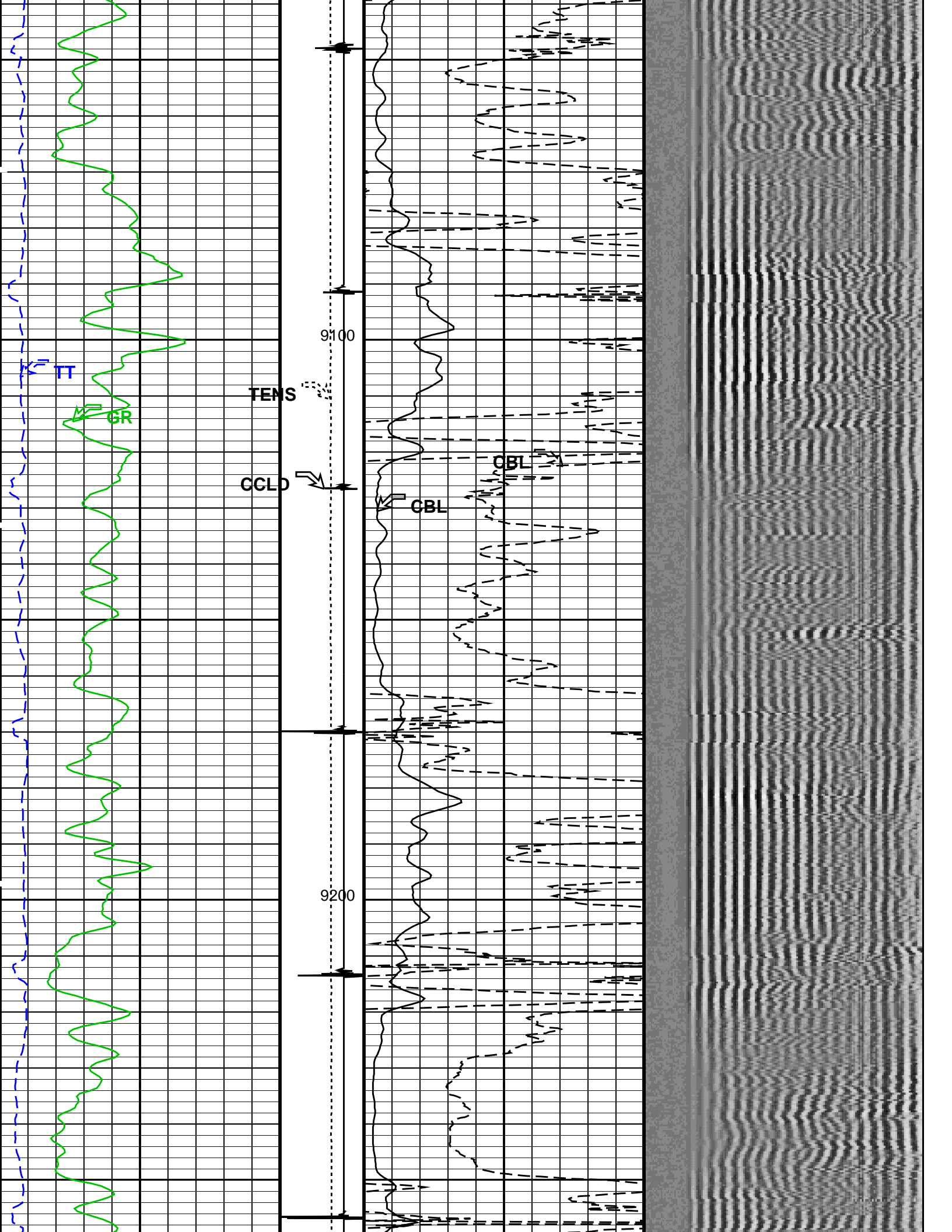


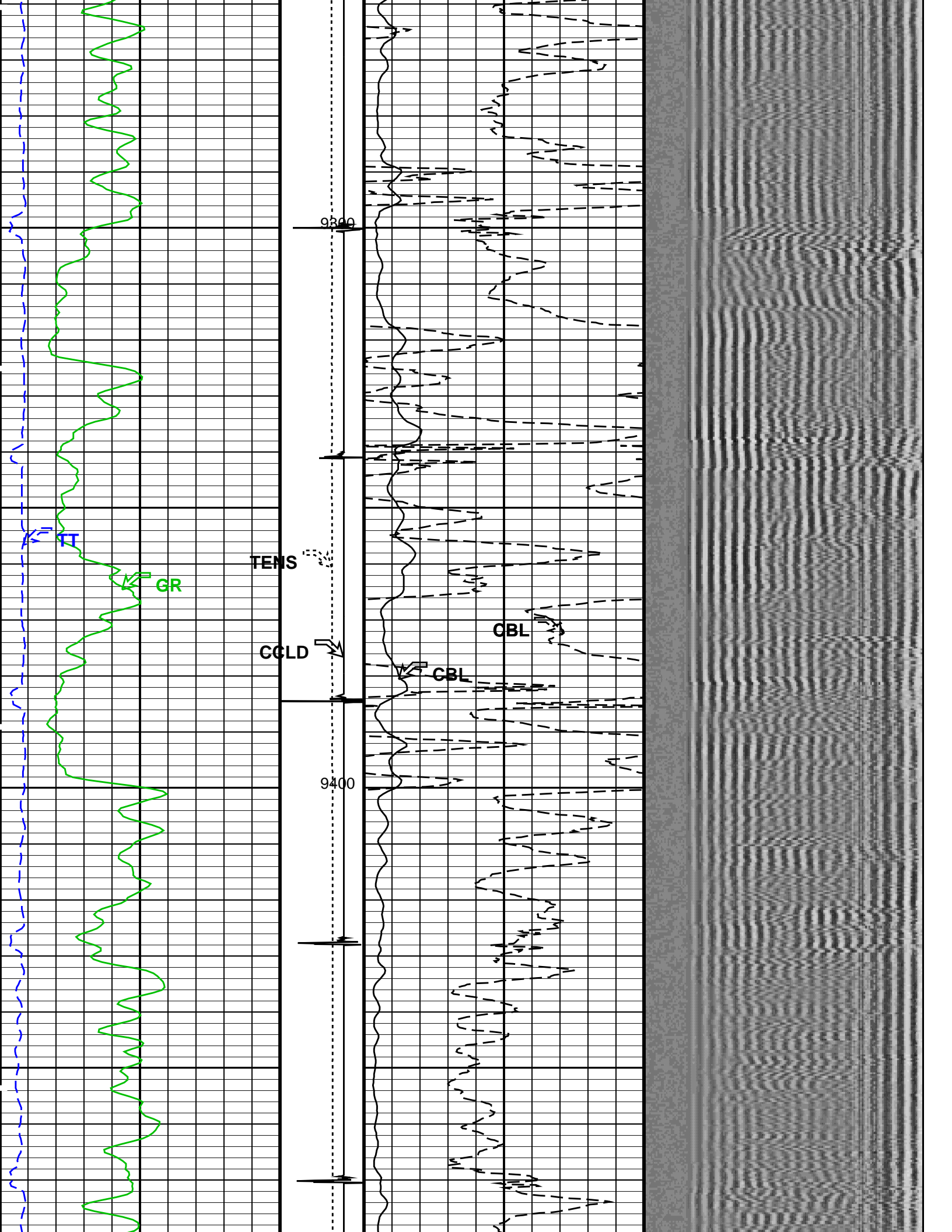


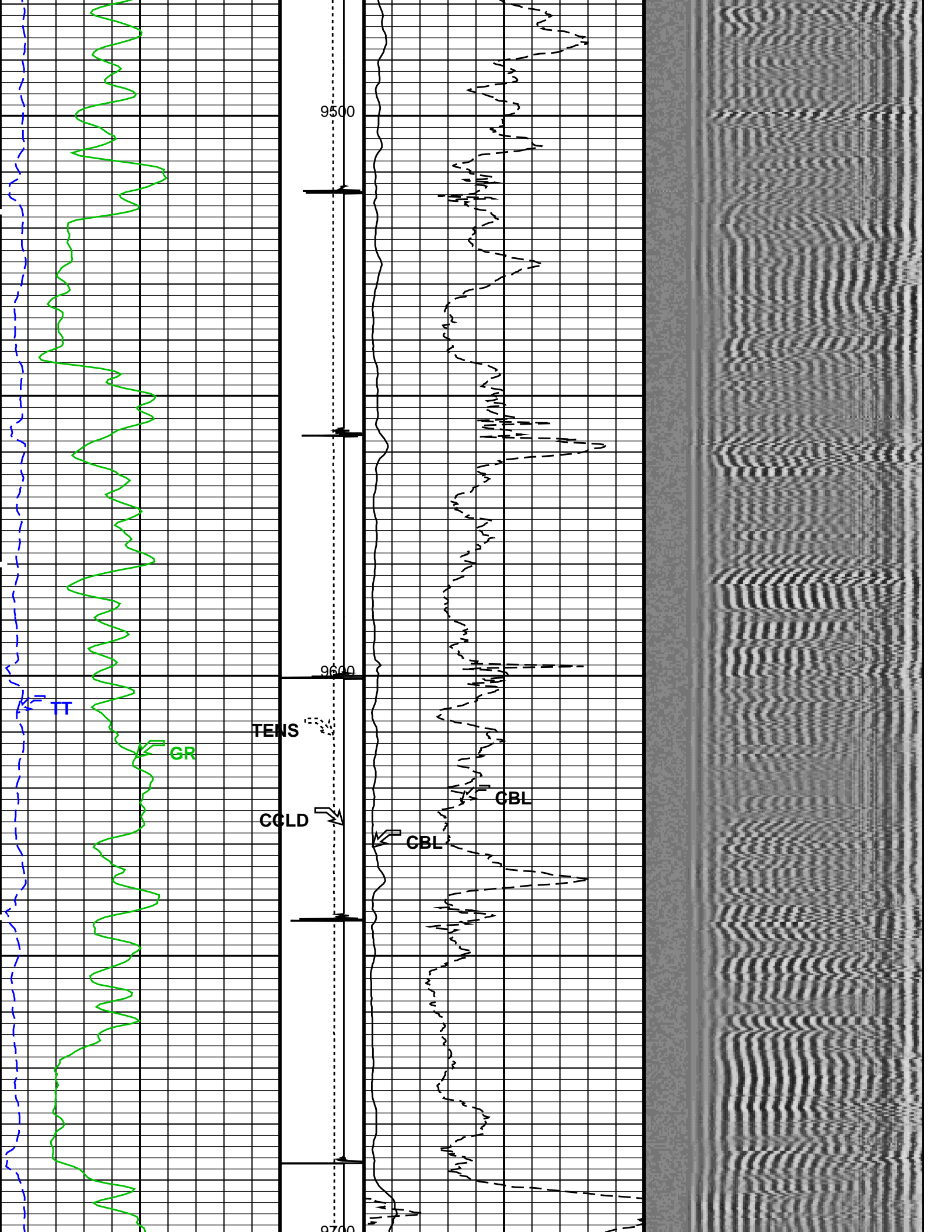


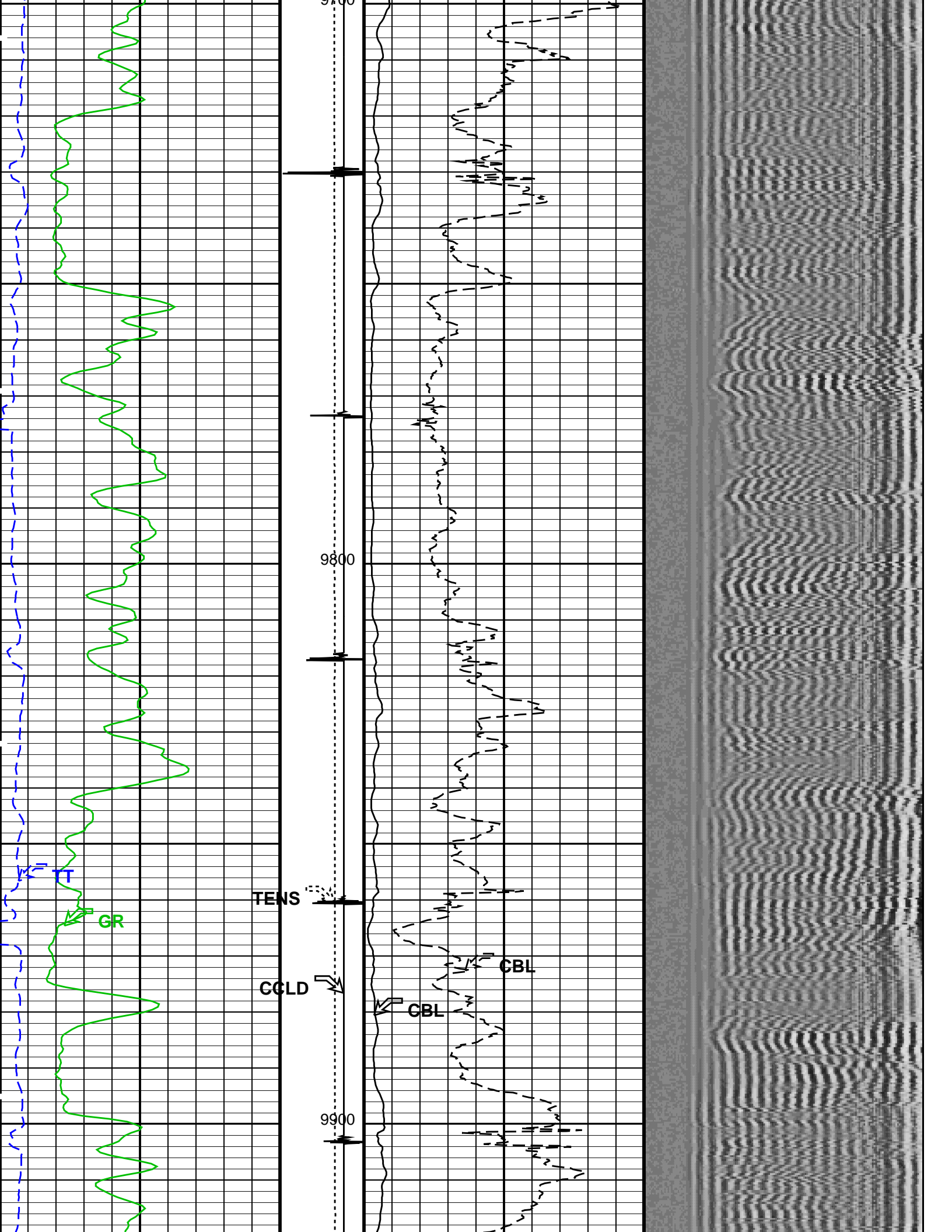


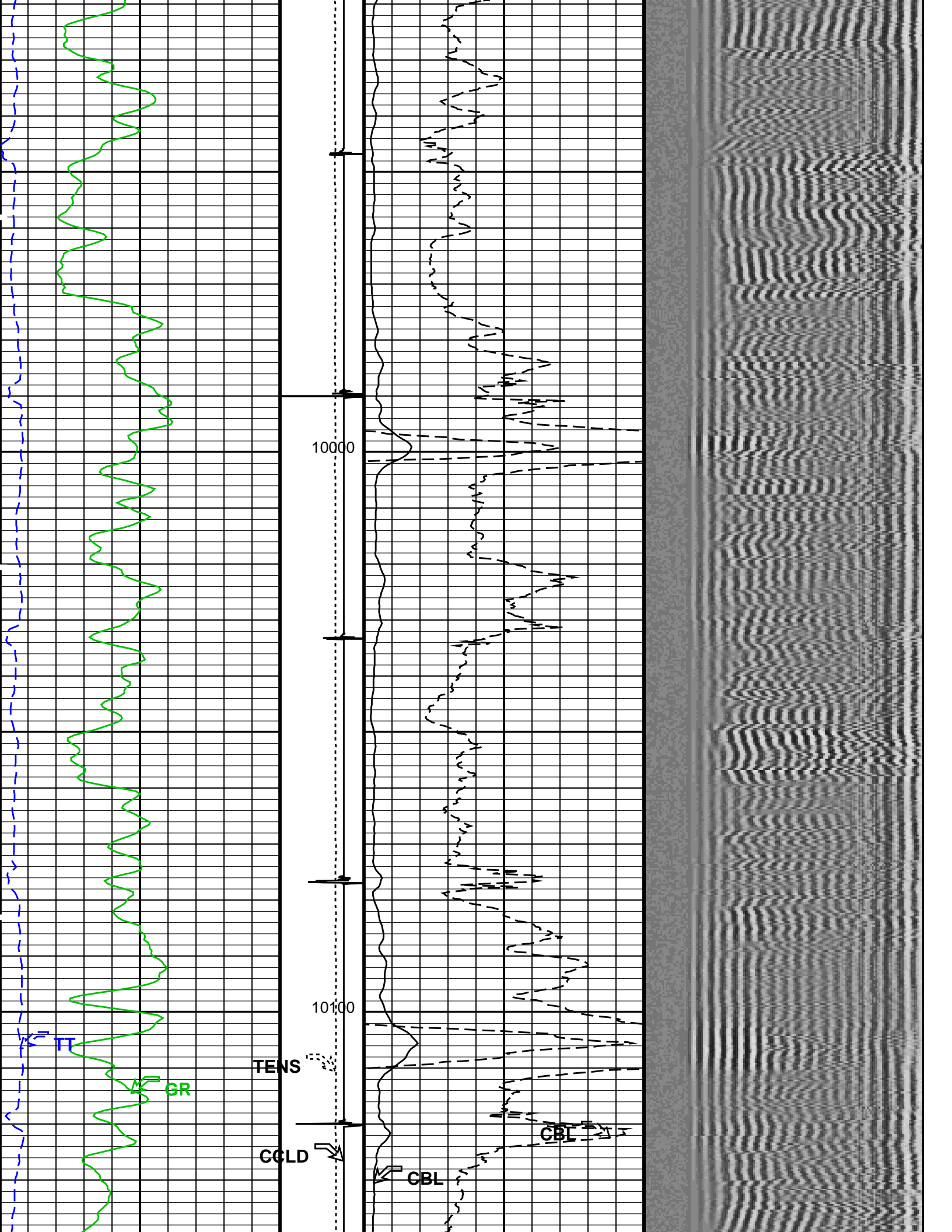


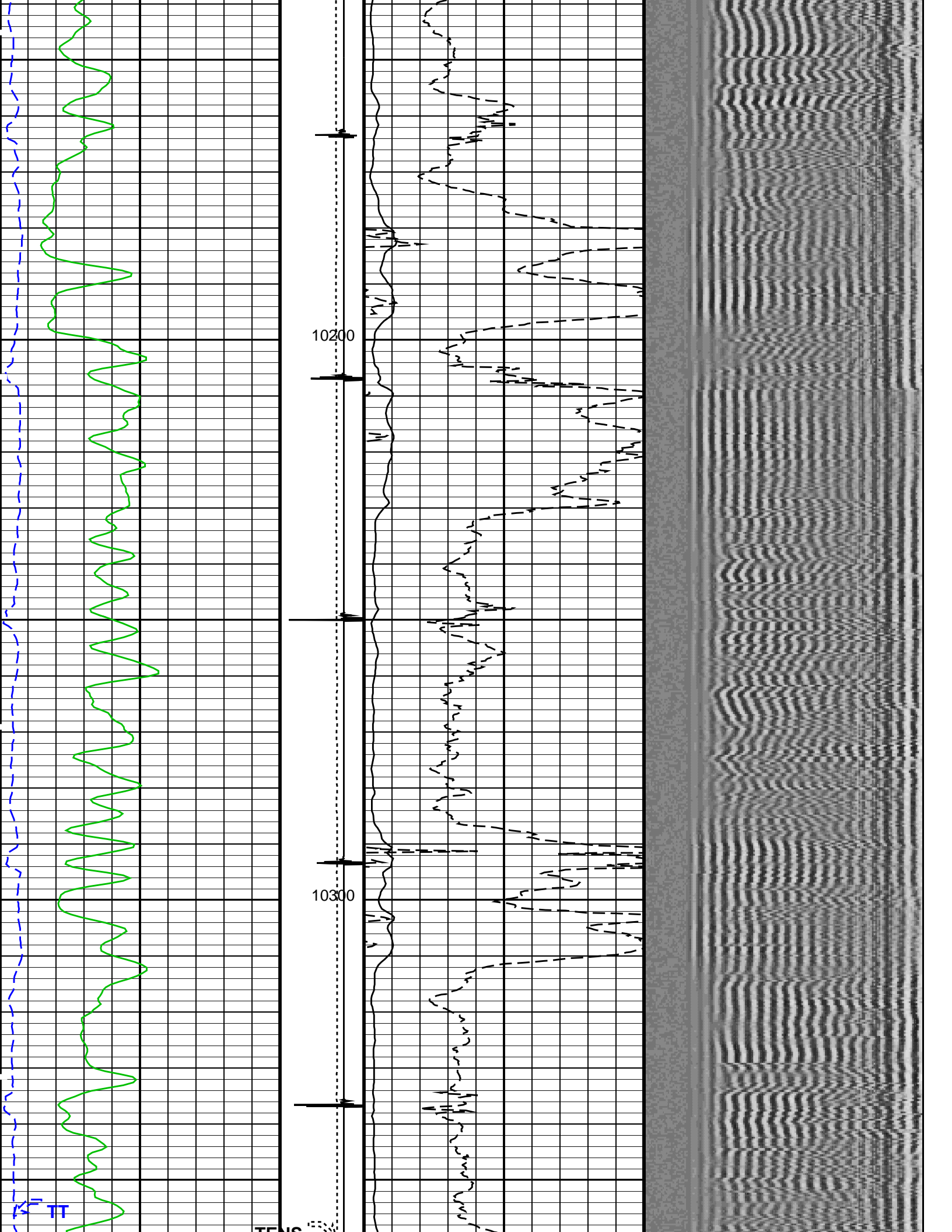


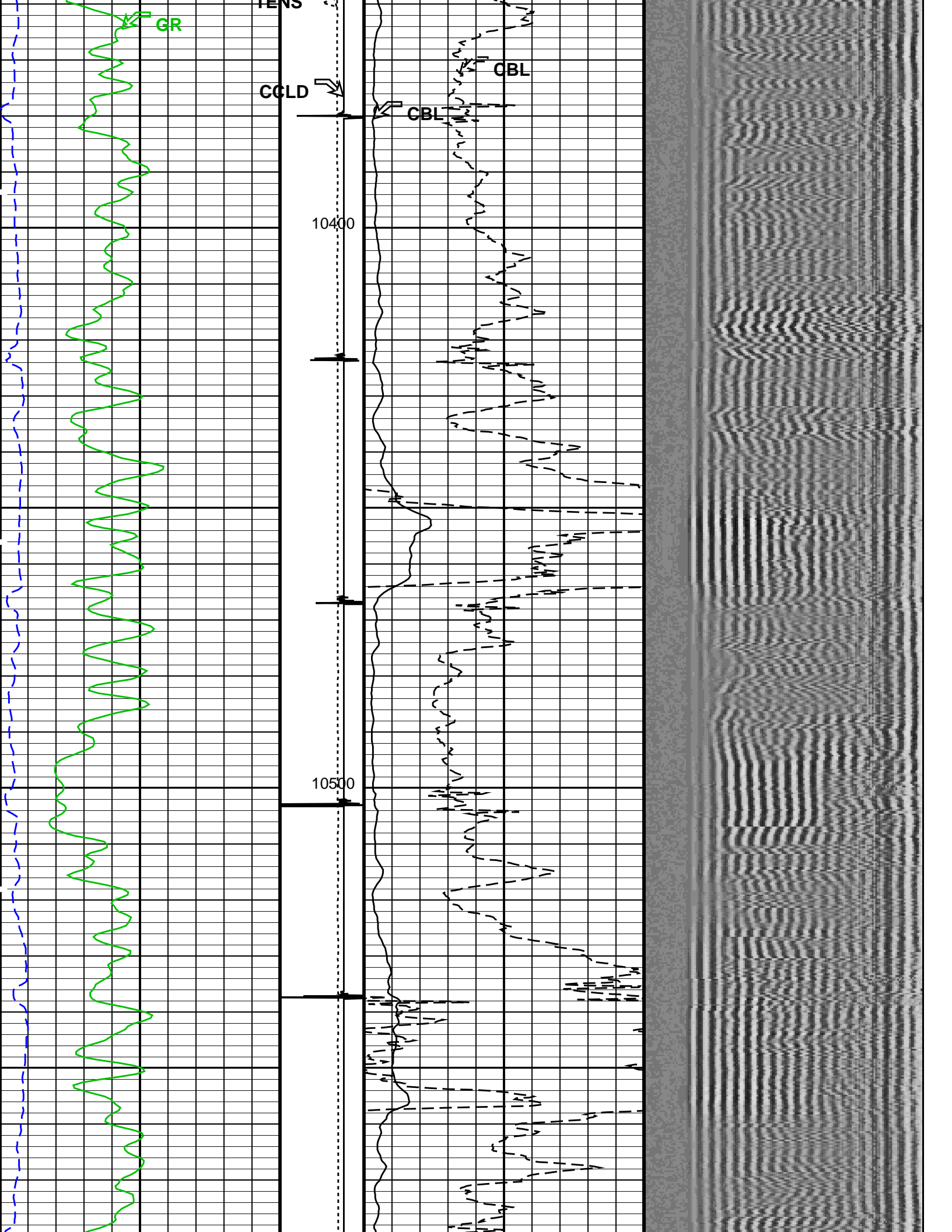


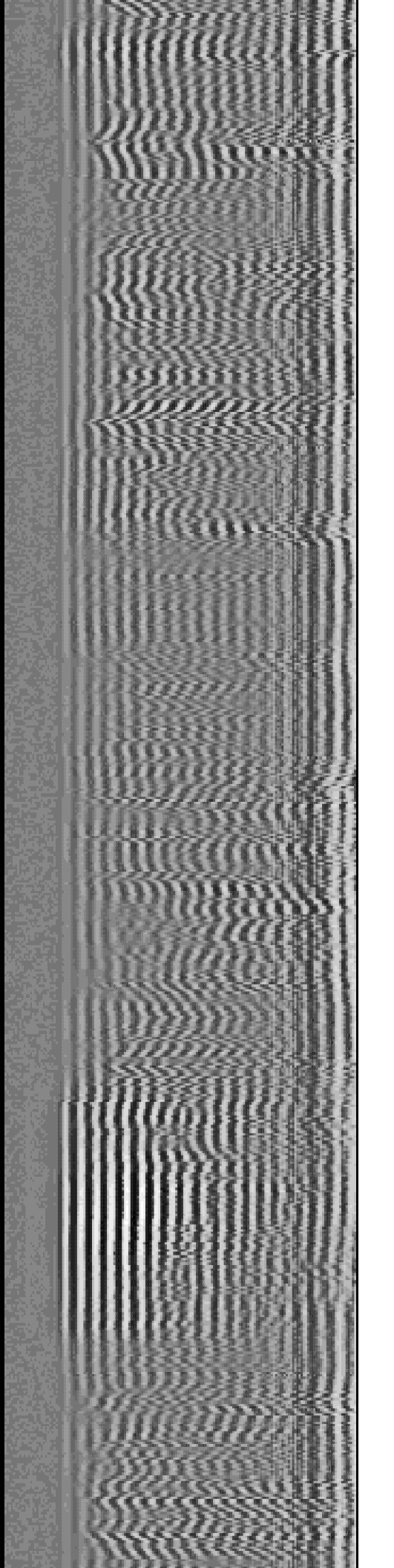
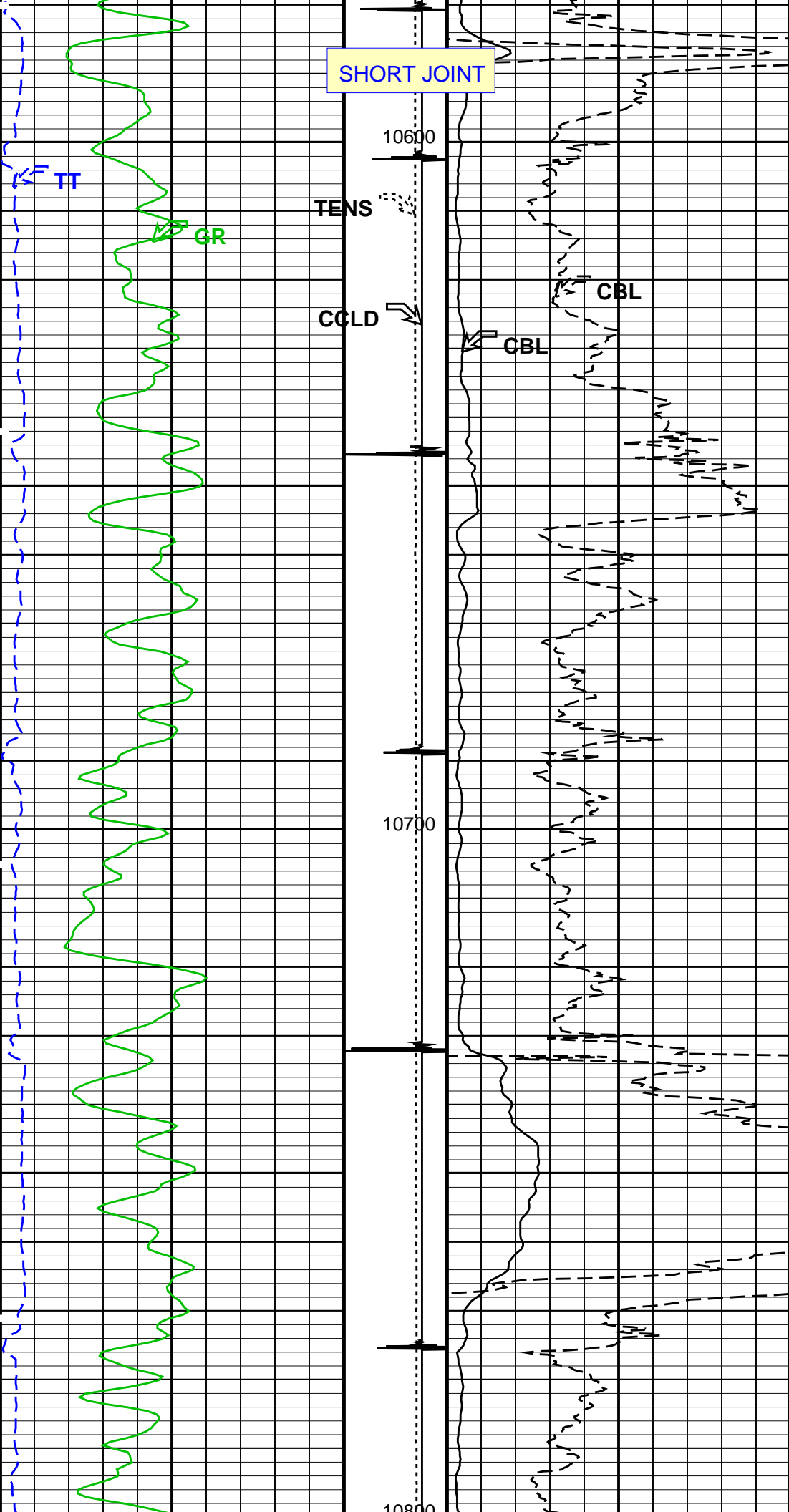


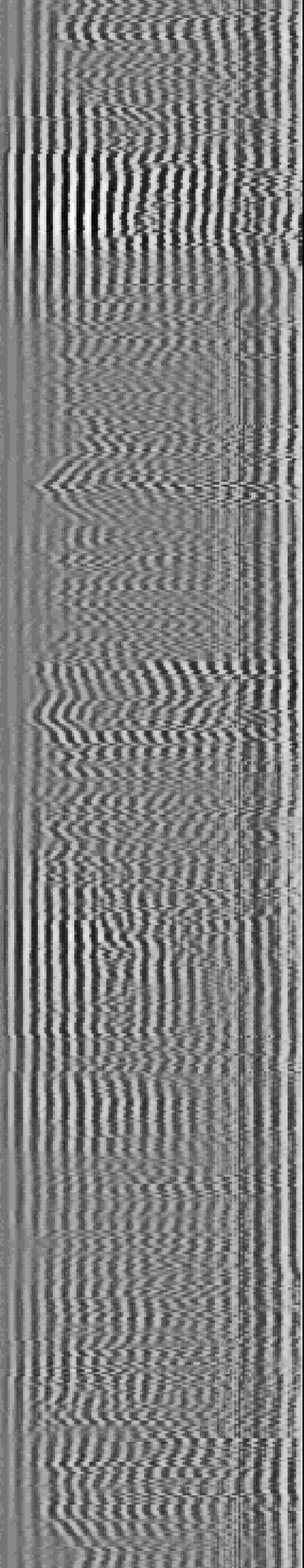
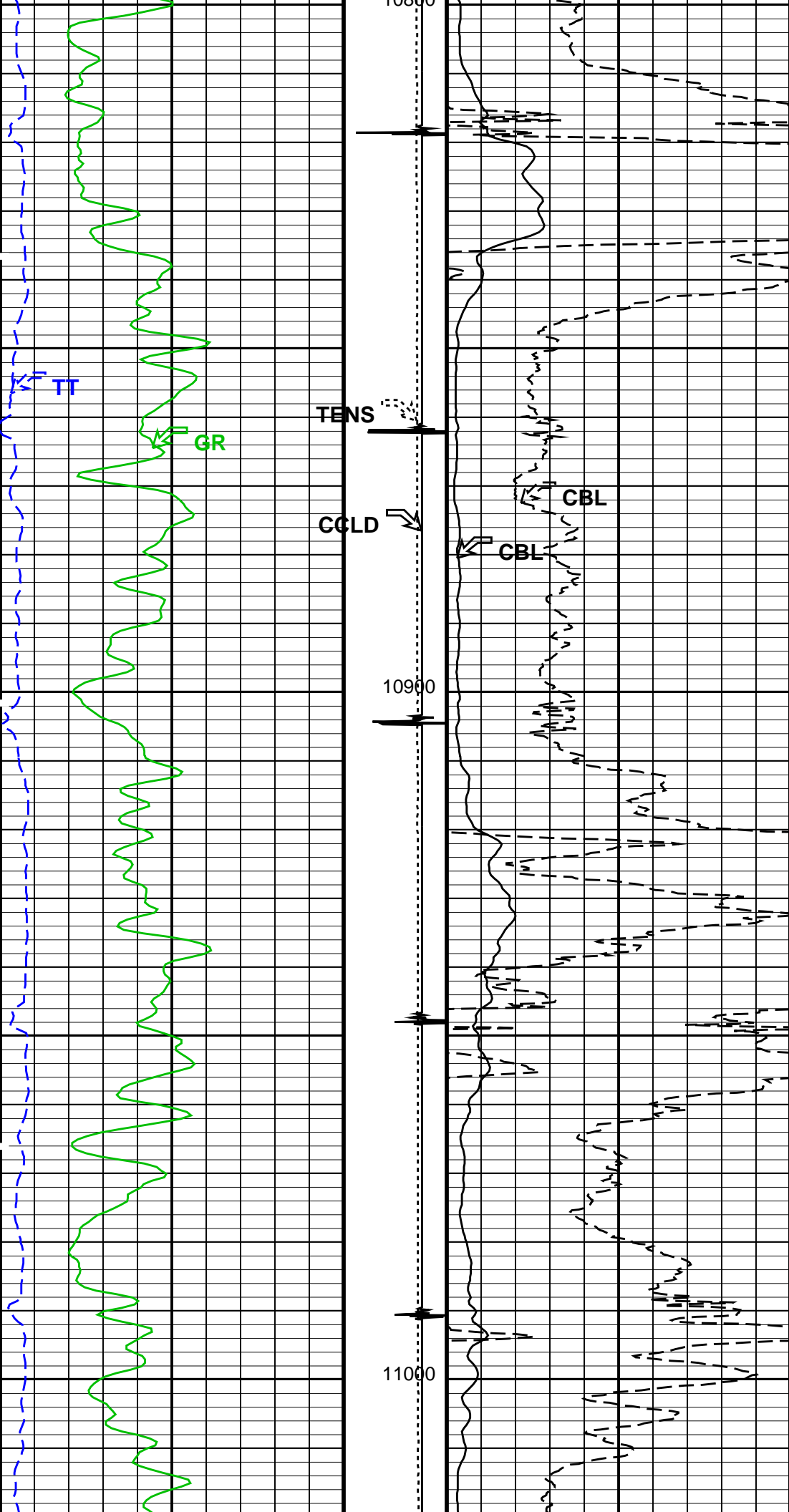


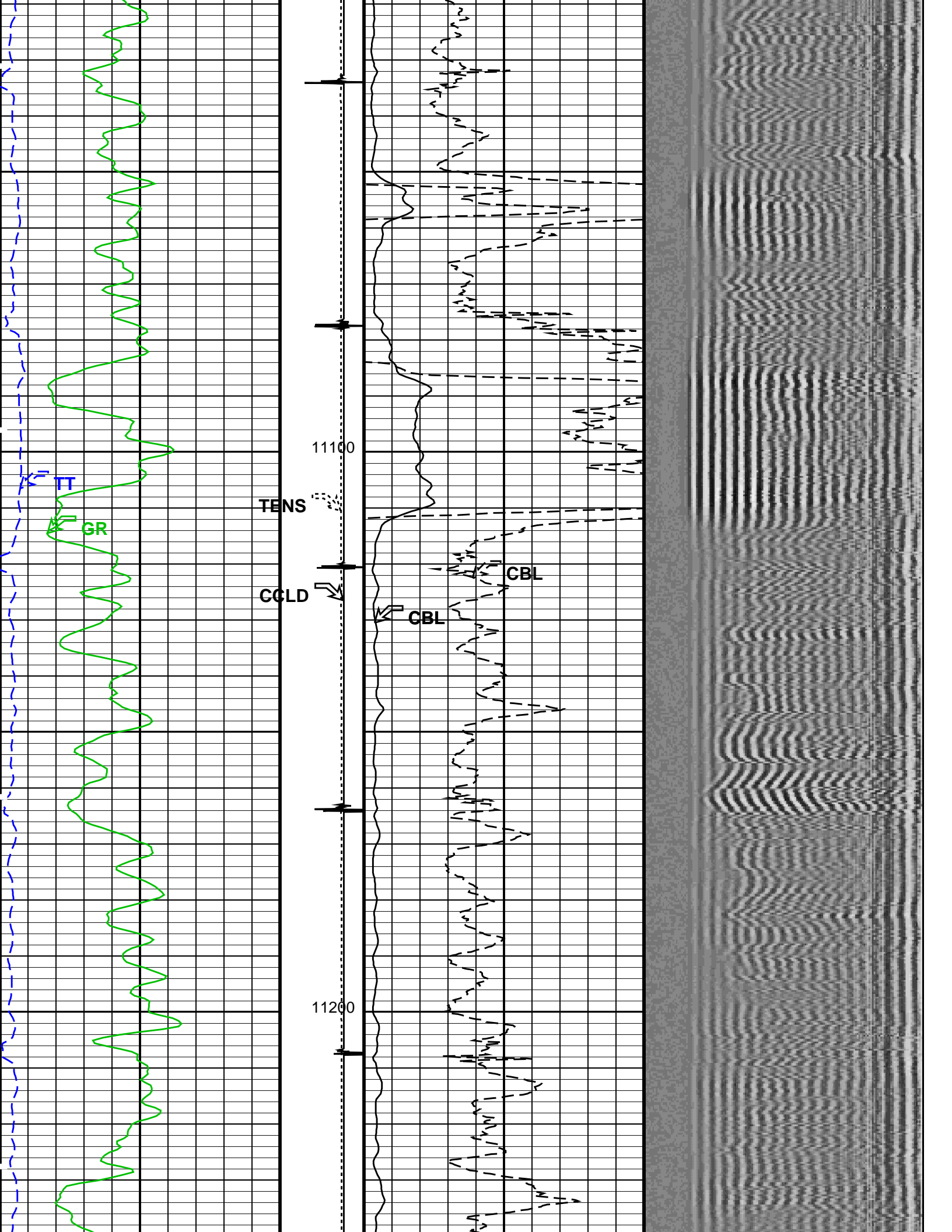


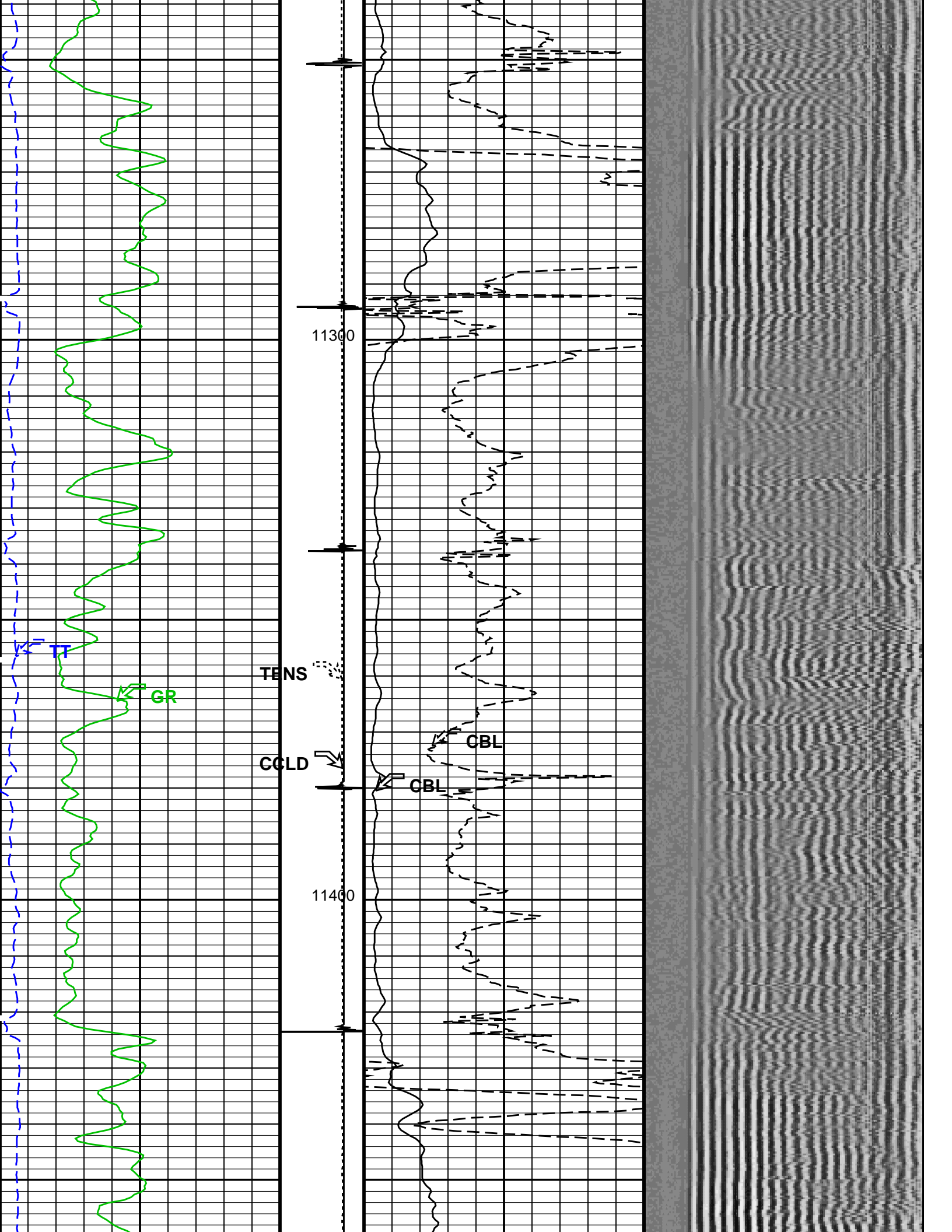


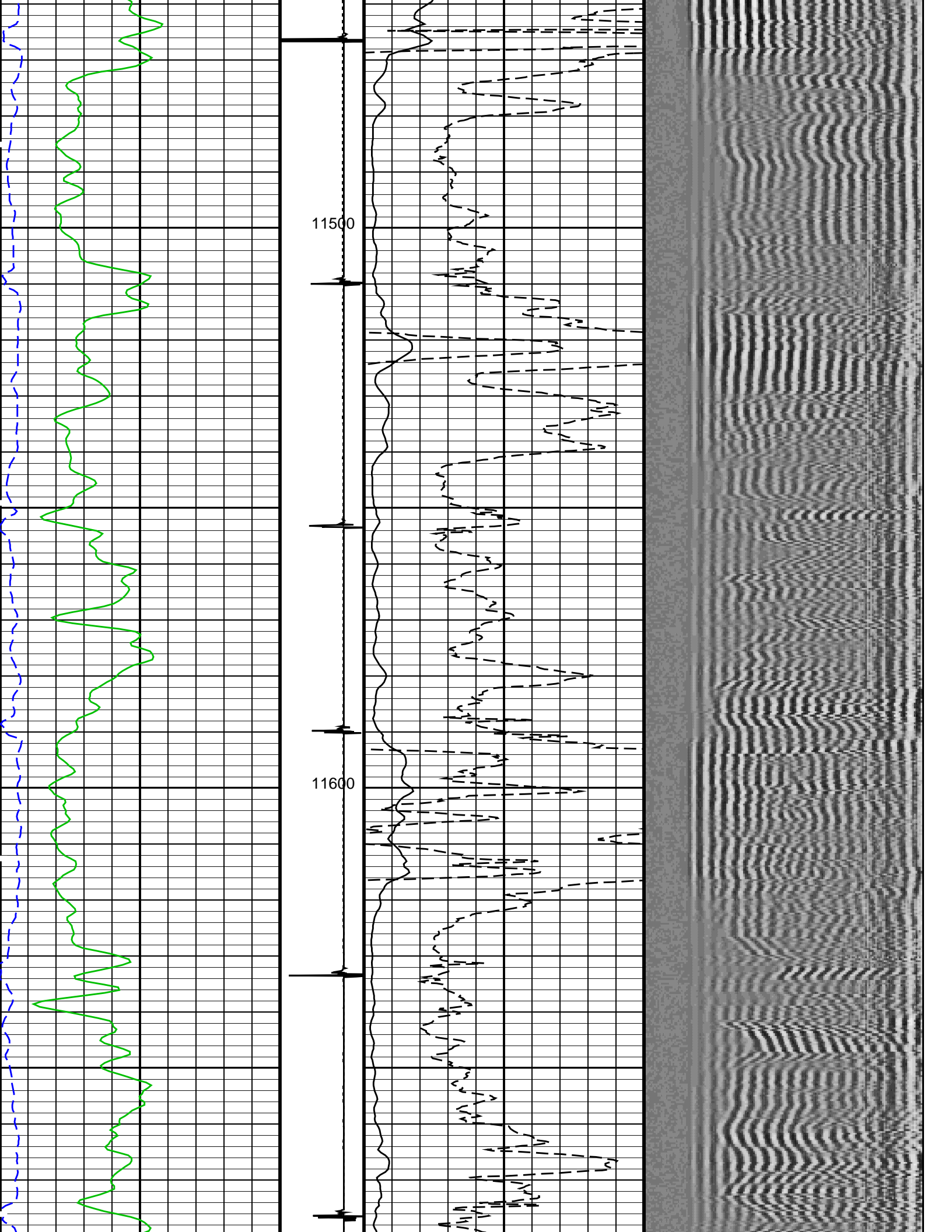


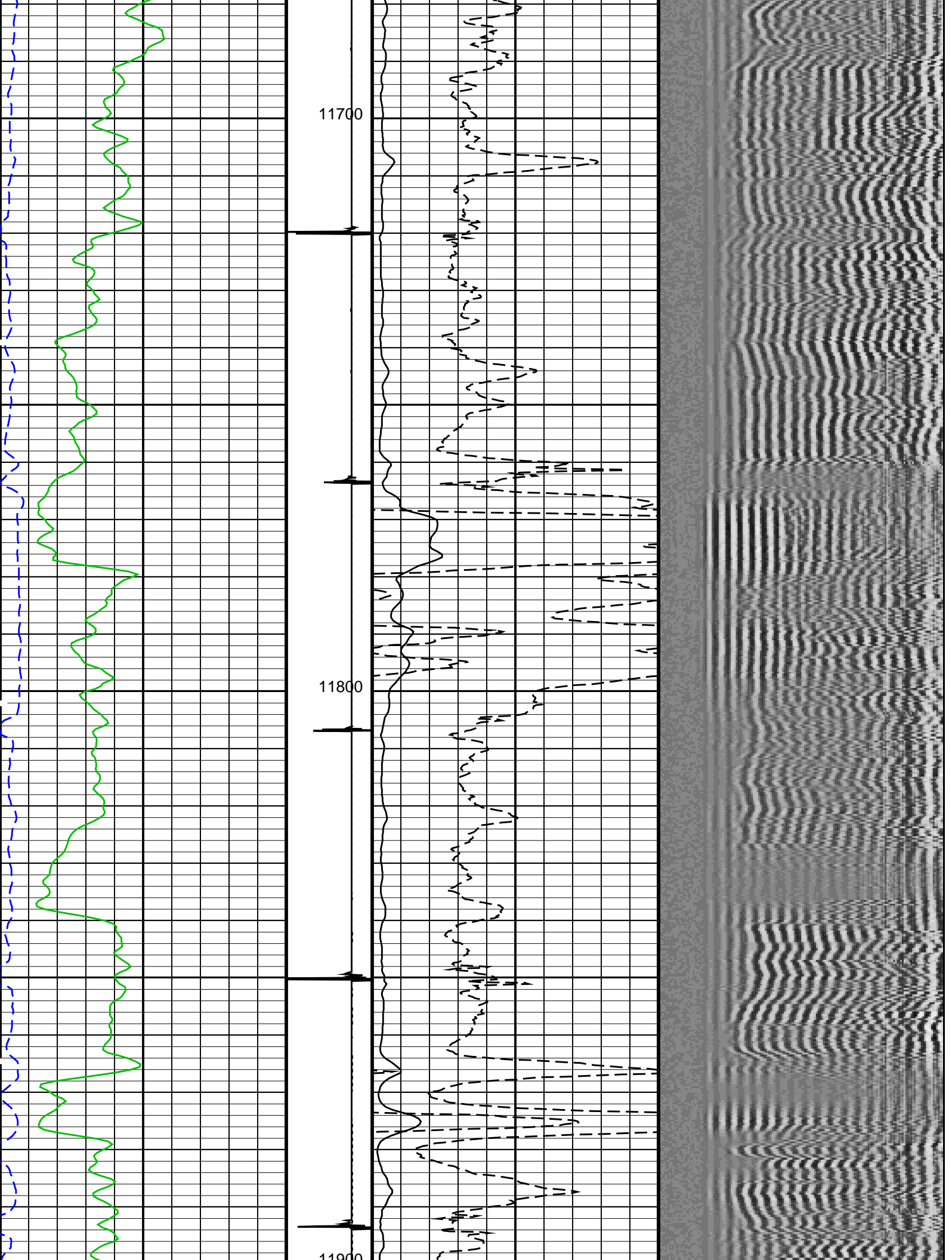


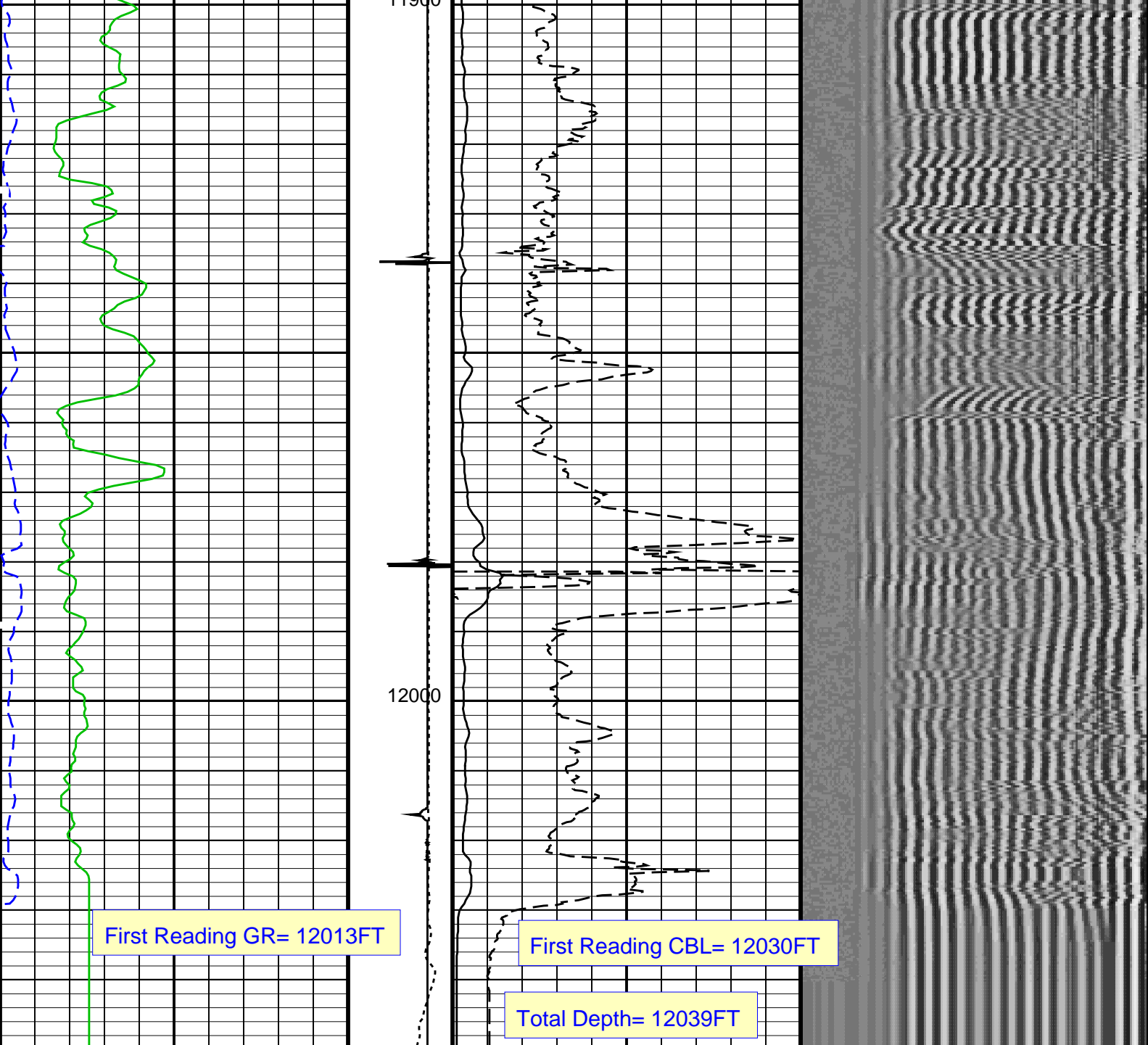












<p>Gamma Ray (GR) (GAPI)</p> <p>0 150</p>	<p>Tension (TENS) (LBF)</p> <p>0 2000</p>	<p>CBL Amplitude (CBL) (MV)</p> <p>0 100</p>	<p>Min Amplitude Max</p> <p>200 VDL VariableDensity (VDL) (US) 1200</p>
<p>Transit Time (TT) (US)</p> <p>260 160</p>	<p>Discriminat ed CCL (CCLD) (V)</p> <p>3 -1</p>	<p>CBL Amplitude (CBL) (MV)</p> <p>0 10</p>	

PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100'

Graphics File Created: 30-Nov-2012 02:48

OP System Version: 19C0-187

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

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number SCMS-CA 8140

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	23-OCT-2012		
CBL Correction Factor	0.0696059	CBL Adjustment Factor (CBAF)	0.800000
MAP 1 Correction Factor	0.0973857	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.104582		
MAP 3 Correction Factor	0.100665		
MAP 4 Correction Factor	0.0886387		
MAP 5 Correction Factor	0.0999776		
MAP 6 Correction Factor	0.110054		
MAP 7 Correction Factor	0.113590		
MAP 8 Correction Factor	0.0958998		

Parameters			
DLIS Name	Description	Value	
SCMT-CA: 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	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	
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	4.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	12039	FT

Input DLIS Files						
DEFAULT	SCMT_HBMS_028LUP	FN:27	PRODUCER	29-Nov-2012 23:21	12045.5 FT	13.0 FT
Output DLIS Files						
DEFAULT	SCMT_HBMS_032PUP	FN:31	PRODUCER	30-Nov-2012 02:48		

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8513D-25 (D36 496)

Input DLIS Files

DEFAULT	SCMT_HBMS_026LUP	FN:25	PRODUCER	29-Nov-2012 22:54	7816.0 FT	7541.0 FT
DEFAULT	SCMT_HBMS_032PUP	FN:31	PRODUCER	30-Nov-2012 02:48	12049.5 FT	17.0 FT

Output DLIS Files

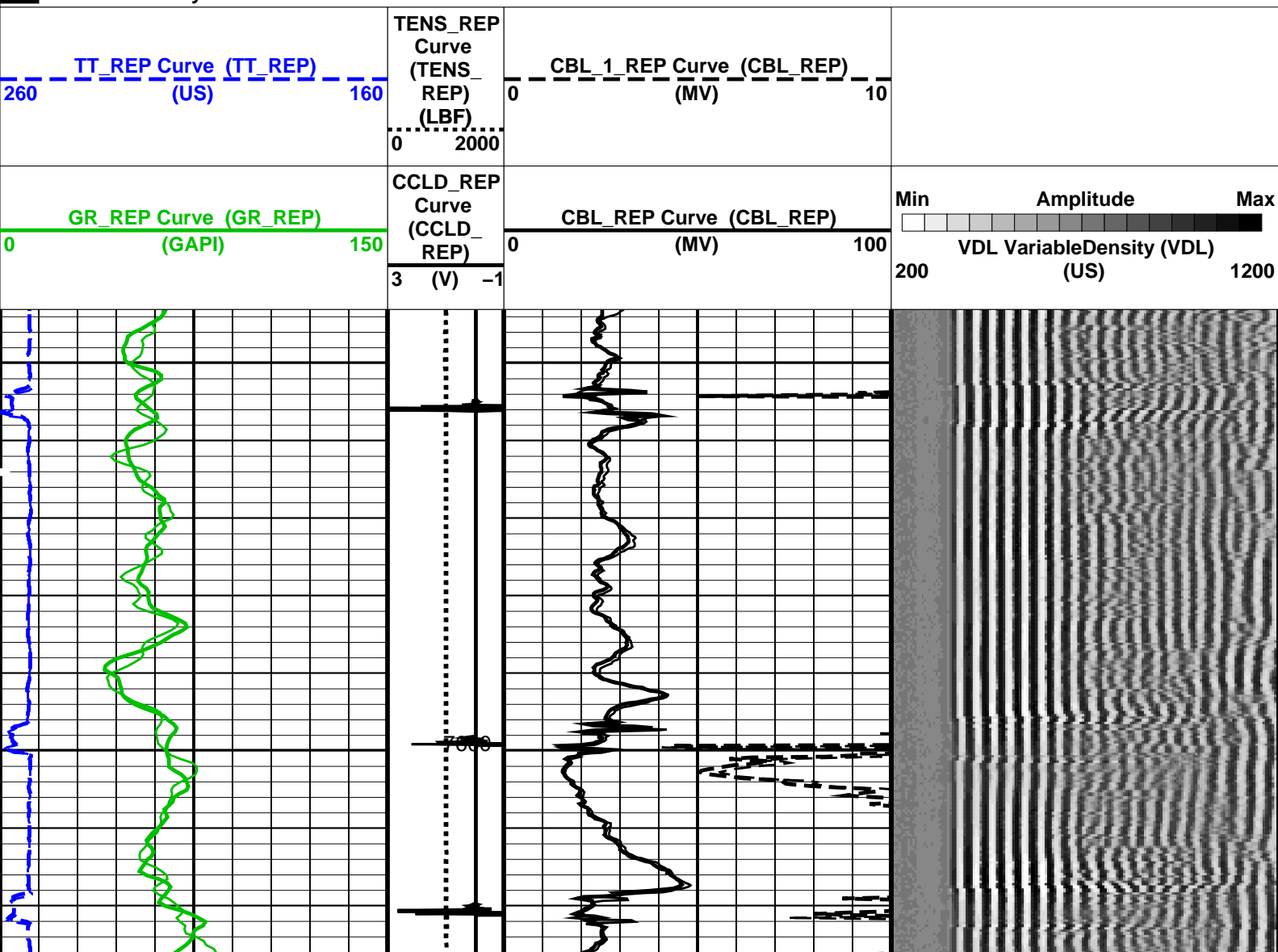
DEFAULT	SCMT_HBMS_033PUP	FN:32	PRODUCER	30-Nov-2012 02:58	7817.5 FT	7542.5 FT
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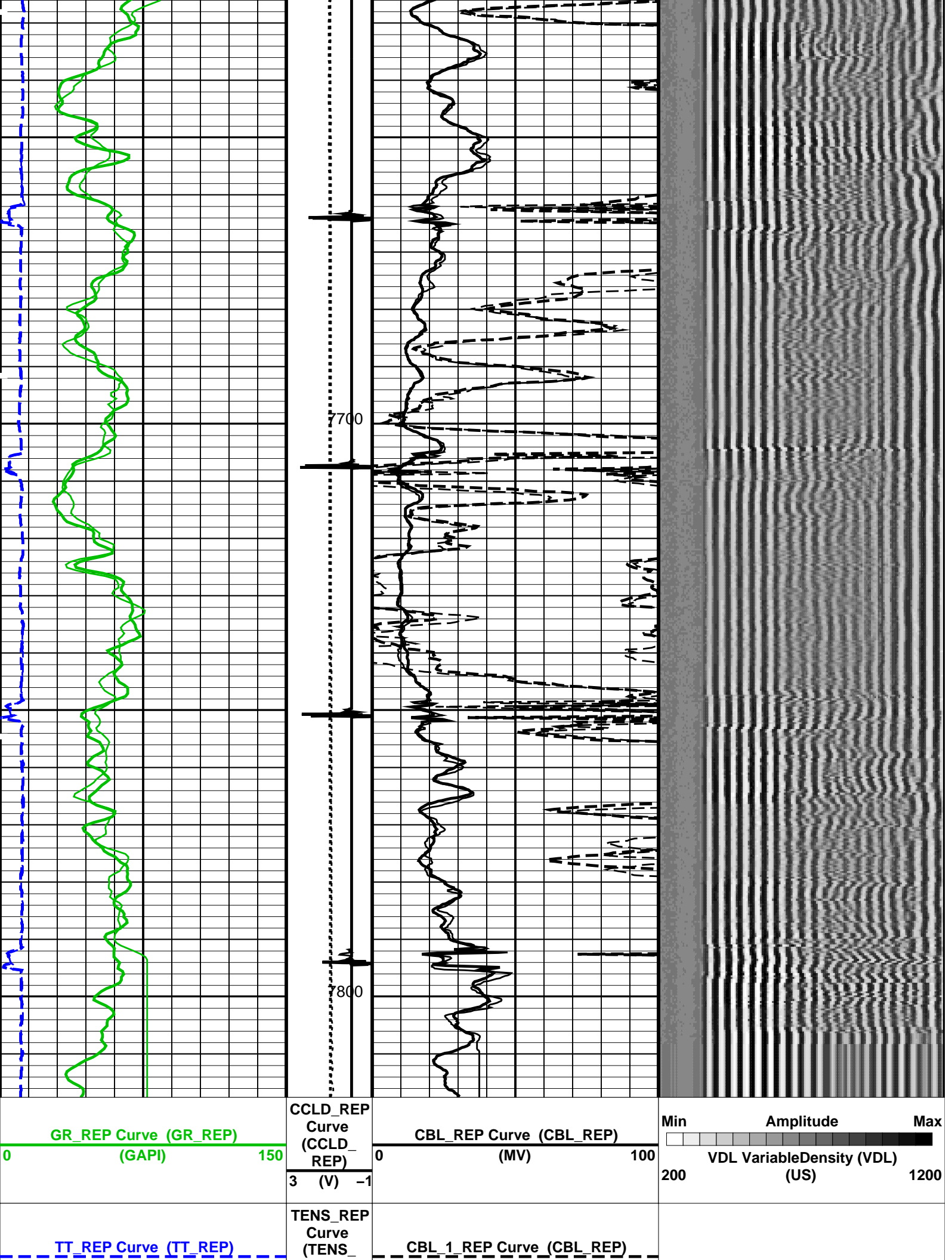
OP System Version: 19C0-187

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

PIP SUMMARY

Time Mark Every 60 S





260	(US)	160	REP (LBF)	0	0	(MV)	10
		0		2000			
PIP SUMMARY							
Time Mark Every 60 S							
Format: CBL_VDL_REP		Vertical Scale: 5" per 100'			Graphics File Created: 30-Nov-2012 02:58		
OP System Version: 19C0-187							
SCMT-CA		SRPC-5214-H2-2012-OP1		HBMS-B		SRPC-5214-H2-2012-OP1	
<<<SCMT Cement Evaluation Information Summary>>>							
Sonde Serial Number		SCMS-CA 8140					
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		23-OCT-2012					
CBL Correction Factor		0.0696059		CBL Adjustment Factor (CBAF)		0.800000	
MAP 1 Correction Factor		0.0973857		MAP Adjustment Factor (MPAF)		1.0	
MAP 2 Correction Factor		0.104582					
MAP 3 Correction Factor		0.100665					
MAP 4 Correction Factor		0.0886387					
MAP 5 Correction Factor		0.0999776					
MAP 6 Correction Factor		0.110054					
MAP 7 Correction Factor		0.113590					
MAP 8 Correction Factor		0.0958998					
Parameters							
DLIS Name		Description				Value	
SCMT-CA: 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				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	
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		Current Casing Size		4.500	IN
CSIZ		Casing Weight		11.60	LB/F
CWEI		Drilling Fluid Density		8.40	LB/G
DFD		Depth Offset for Playback		1.5	FT
DO		Depth Offset for Repeat Analysis		0.0	FT
DORL		Playback Processing		RECOMPUTE	
PP				12039	FT
TD		Total Depth			

Input DLIS Files						
DEFAULT	SCMT_HBMS_026LUP	FN:25	PRODUCER	29-Nov-2012 22:54	7816.0 FT	7541.0 FT
DEFAULT	SCMT_HBMS_032PUP	FN:31	PRODUCER	30-Nov-2012 02:48	12049.5 FT	17.0 FT

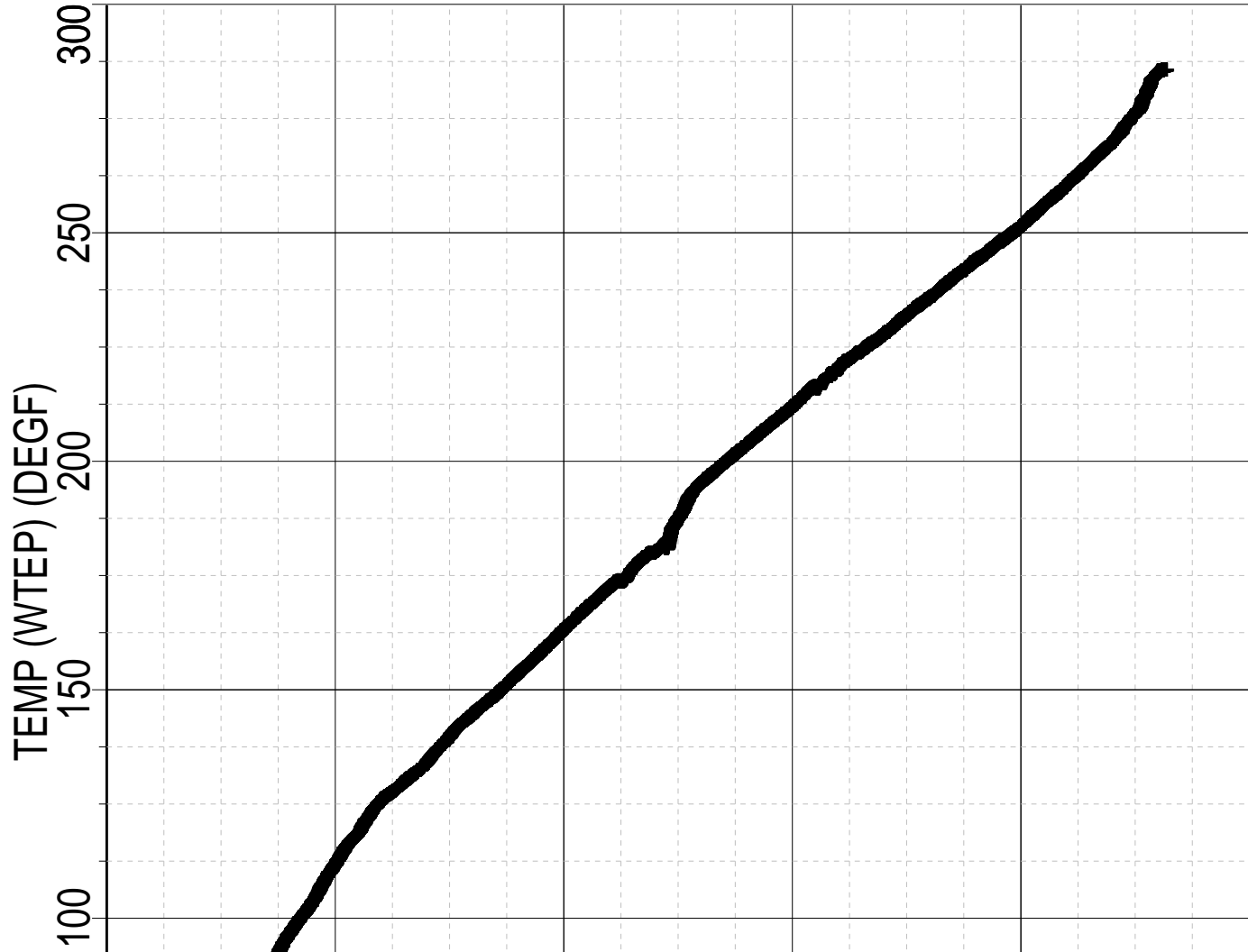
Output DLIS Files			
DEFAULT	SCMT_HBMS_033PUP	FN:32	PRODUCER 30-Nov-2012 02:58

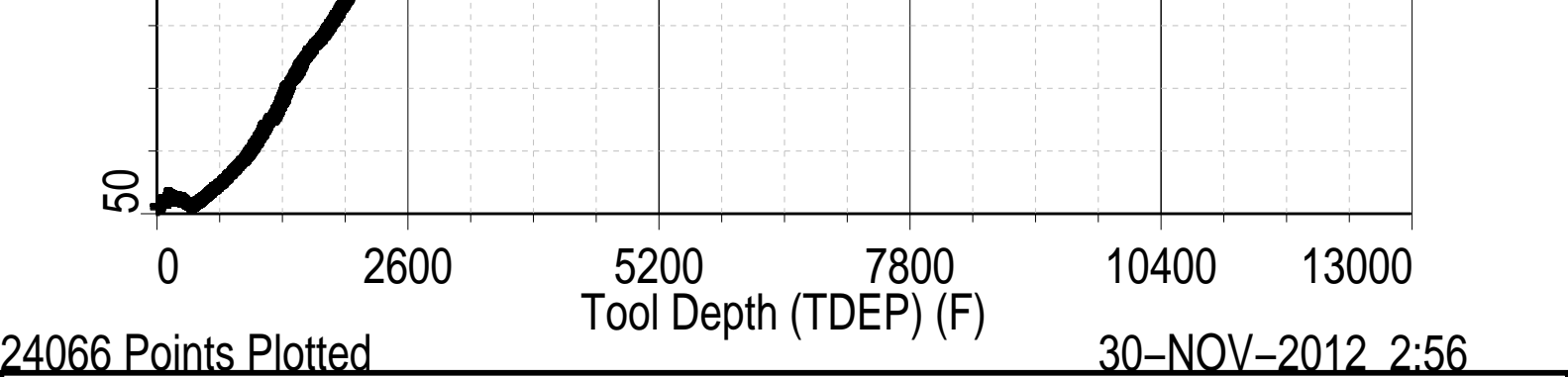


TEMPERATURE PLOT

MAXIS Field Log

Index: 12049.5 – 17.0 FT





HBMS COEFFICIENTS

MAXIS Field Log

Client: ENCANA OIL & GAS (USA) INC
Field: GRAND VALLEY
Well: SG 8513D-25 (D36 496)
Run date: 29-Nov-2012

Tool: PSP
Sub Type: PBMS
Sensor: GR

PBMS Gamma Ray
Sonde Serial NB RESISTORS FOR GR SENSOR N.34384, TOOL HBMS-BA2880. SENSOR S/N:
Sensor Serial NB 34384
Calib Date ddmmyy 160206
Matrix Size 12
Coeff CRC D8B5

GR HV Rt			
Rt**0	Rt**1		
Rt**0	<table><tr><td>+.200000000000e+04</td><td>+.173000000000e+04</td></tr></table>	+.200000000000e+04	+.173000000000e+04
+.200000000000e+04	+.173000000000e+04		

Field: GRAND VALLEY

Well: SG 8513D-25 (D36 496)

Run date: 29-Nov-2012

Sub Type:

Sensor:

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: ENCANA OIL & GAS (USA) INC

Field: GRAND VALLEY

Well: SG 8513D-25 (D36 496)

Run date: 29-Nov-2012

Tool:

Sub Type:

Sensor:

PSP

PBMS

CQG

PBMS Quartz Gauge type F

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR CQG PBMS-B.2880 S/N:

2880

260408

66

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**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
Calib Date ddmmyy
Matrix Size
Coeff CRC

:
2880
260408
66
3690

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+.114978632240E+03	-.318843725686E-03	+.651766172344E-08
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
Calib Date ddmmyy
Matrix Size
Coeff CRC

:
2880
260408
16
7185

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

Schlumberger

MASTER CALIBRATION

MAXIS Field Log

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

Primary Equipment:

Slim Cement Mapping Xmitter Electronics

Slim Cement Mapping Sonde

Slim Cement Mapping Cartridge

SCMX – CA

SCMS – CA

8140

SCMC – CA

8110



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			1232	Master			1147
	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		1192	Master		1354
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		1200	Master		1090
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		1056	Master		1251
500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)			500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)		
Phase	CBL Amplitude Plus MV	Value			
Master		1379			
1000 (Minimum) 1350 (Nominal) 1700 (Maximum)					
Master: 23-Oct-2012 16:09					

Company:
ENCANA OIL & GAS (USA) INC

Well:
SG 8513D–25 (D36 496)

Field:
GRAND VALLEY

County:
GARFIELD

State:
COLORADO

Schlumberger

SLIM CEMENT MAPPING LOG
CBL–VDL
GR–CCL