

Company: ENCANA OIL & GAS (USA) INC

Well: SGU 8509A-36 (B36 496)

Field: NORTH PARACHUTE

County: GARFIELD State: COLORADO

CEMENT BOND LOG  
CBL – VDL  
GAMMA RAY – CCL

County: GARFIELD  
Field: NORTH PARACHUTE  
Location: SHL: NWNE 786 FNL 1647 FWL  
Well: SGU 8509A-36 (B36 496)  
Company: ENCANA OIL & GAS (USA) INC

LOCATION			
SHL: NWNE 786 FNL 1647 FWL BHL: NESE 2612 FSL 698 FEL		Elev.: K.B. 8374.00 ft G.L. 8352.00 ft D.F. 8373.00 ft	
Permanent Datum:	GROUND LEVEL	Elev.: 8352.00 ft	
Log Measured From:	KELLY BUSHING	22.00 ft	above Perm. Datum
Drilling Measured From:	KELLY BUSHING		
API Serial No. 05-045-19840-000C	Section 36	Township 4S	Range 96W

PVT DATA			
Oil Density	Run 1	Run 2	Run 3
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-May-2011					Logging Date					
Run Number	ONE					Run Number					
Depth Driller	12306 ft					Depth Driller					
Schlumberger Depth	12236 ft					Schlumberger Depth					
Bottom Log Interval	12227.1 ft					Bottom Log Interval					
Top Log Interval	200 ft					Top Log Interval					
Casing Fluid Type	WATER					Casing Fluid Type					
Salinity						Salinity					
Density	8.4 lbm/gal					Density					
Fluid Level	22 ft					Fluid Level					
BIT/CASING/TUBING STRING						BIT/CASING/TUBING STRING					
Bit Size	7.875 in					Bit Size					
From	22 ft					From					
To	12306 ft					To					
Casing/Tubing Size	4.500 in					Casing/Tubing Size					
Weight	11.6 lbm/ft					Weight					
Grade	P-110					Grade					
From	22 ft					From					
To	12276 ft					To					
Maximum Recorded Temperatures	284 degF					Maximum Recorded Temperatures					
Logger On Bottom	3-May-2011			17:50		Logger On Bottom					
Unit Number	391	GRAND JUNCTION				Unit Number	Location				
Recorded By	SHOWKAT HOSSAIN					Recorded By					
Witnessed By	EMILIO RIVERA					Witnessed By					

## DEPTH SUMMARY LISTING

Date Created: 3-MAY-2011 19:18:49

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-C	Type:	1-25ZT
Serial Number:	5083	Serial Number:		Serial Number:	391
Calibration Date:	09-NOV-2011	Calibration Date:	27-APR-201	Length:	24000 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	17487		
Calibration Cable Type:	1-25ZT	Number of Calibration Points:	10	Conveyance Method:	Wireline
Wheel Correction 1:	-5	Calibration RMS:	7	Rig Type:	LAND
Wheel Correction 2:	-4	Calibration Peak Error:	11		

## Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	255.00 FT
Rig Up Length At Bottom:	256.00 FT
Rig Up Length Correction:	-1.00 FT
Stretch Correction:	14.00 FT
Tool Zero Check At Surface:	0.30 FT

### Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES FOLLOWED
2. IDW USED AS PRIMAY DEPTH CONTROL.
3. Z-CHART AND DRUM COUNTER USED AS SECONDARY DEPTH CONTROL
- 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: RST SIGMA OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
THIS IS THE FIRST RUN IN WELL.	
TOOL RAN AS PER TOOL SKETCH.	
TD TAGGED AT: 12236 FT	
MAXIMUM RECORDED TEMPERATURE AT TD: 283.8 DEGF	
MAXIMUM RECORDED PRESSURE AT TD: 5045 PSIA	

SHORT JOINTS: 8644 FT – 8664 FT AND 10880 FT – 10900 FT					
EXPECTED FREE PIPE AMPLITUDE: 80 mV					
CYCLE SKIPPING IN ZONES OF GOOD BOND, THUS TT READS HIGH.					
AFE: 10142804					
THANK YOU FOR CHOOSING SCHLUMBERGER.					
CREW: B. CUPP, W. AZIZ, AND M. MYERS					
<div> <div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div> <div>BOC2-00043</div> <div>18C0-147</div> <div>22 ft</div> </div> </div>			<div> <div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> </div>		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT					
WITM-A 3412 PSC_16MHZ 3412					
DOWNHOLE EQUIPMENT					
<div> <div> <div>MH-22</div> <div>MH-22 391</div> </div> <div> <div>AH-38</div> <div>HBMS-B</div> <div>PSC-A 2874</div> <div>HUDH-A 2880</div> <div>HSTC-A 2874</div> <div>HBMC-A 2874</div> <div>GR 34384</div> <div>CCL 2880</div> <div>HBMC 2880</div> <div>HTPS-A 2880</div> <div>HCQG_E_Mano 2880</div> <div>RTD_Thermometer 2880</div> </div> <div> <div>Detail MT</div> <div>TelStatus</div> <div>CTEM</div> <div>GR</div> <div>CCL</div> <div>HSTC Aux.</div> <div>HBMC Aux.</div> <div>CQG Manom</div> <div>Well_Temp</div> </div> <div> <div>56.5</div> <div>54.9</div> <div>54.6</div> <div>49.7</div> <div>47.3</div> <div>45.8</div> <div>44.4</div> <div>43.5</div> <div>34.4</div> <div>33.9</div> </div> </div>					
<div> <div>RST-C</div> <div>RSCH-A 298</div> <div>RSC-E 311</div> <div>RSS-A 440</div> <div>RSXH-A 493</div> <div>RSX-E 493</div> </div> <div> <div>RSC-A Far</div> <div>RSC-A PNG</div> <div>RSC-A Nea</div> <div>RSX-A PNG</div> </div>					

SCMT-CB  
SCMC-CA 8120  
SECH-CA 8120  
CMIR-AG 2  
SCMS-CB 8303  
SCMX-CA 8251

20.5

DT 11.4  
CBL5 DTSC 9.9  
CBL3 8.9  
MAP 8.4  
AUX 7.4

AH-BNS  
Tension SCMT HV  
TOOL ZERO 0.0 0.5

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

Schlumberger

MAIN PASS 0 PSI

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC Well: SGU 8509A-36 (B36 496)

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DEFAULT SCMT\_RST\_HBMS\_019LUP FN:18 PRODUCER 03-May-2011 17:50 12256.0 FT 109.5 FT

Output DLIS Files

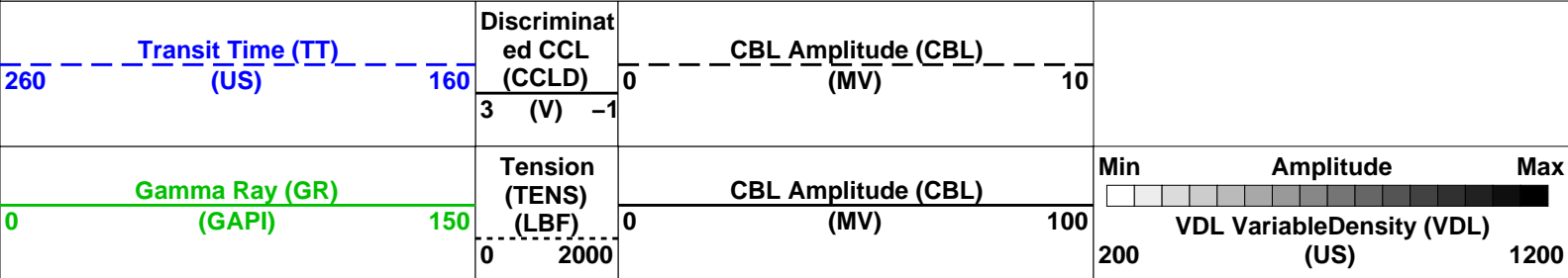
DEFAULT SCMT\_RST\_HBMS\_022PUP FN:21 PRODUCER 03-May-2011 21:00 12270.0 FT 68.5 FT

OP System Version: 18C0-147

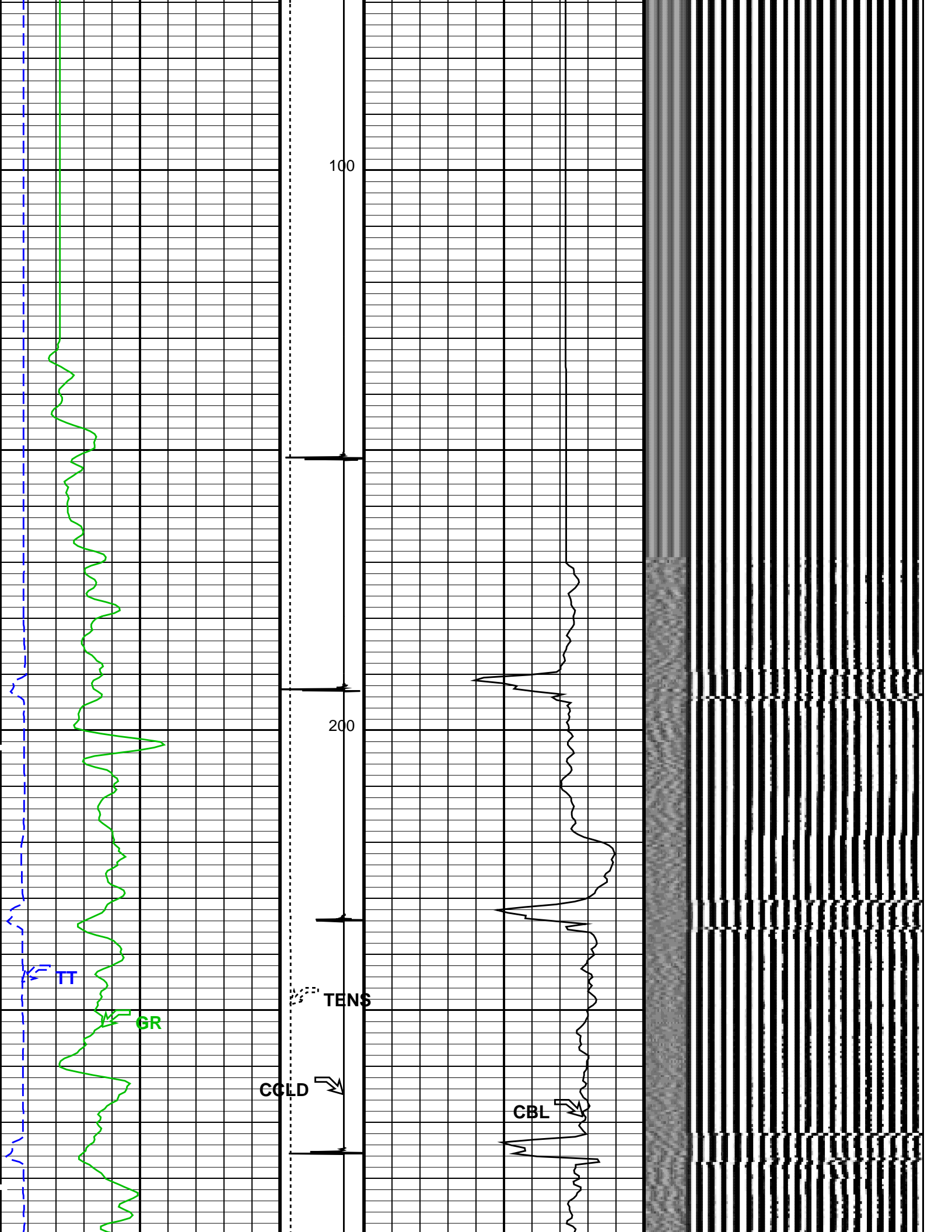
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HBMS-B 18C0-147

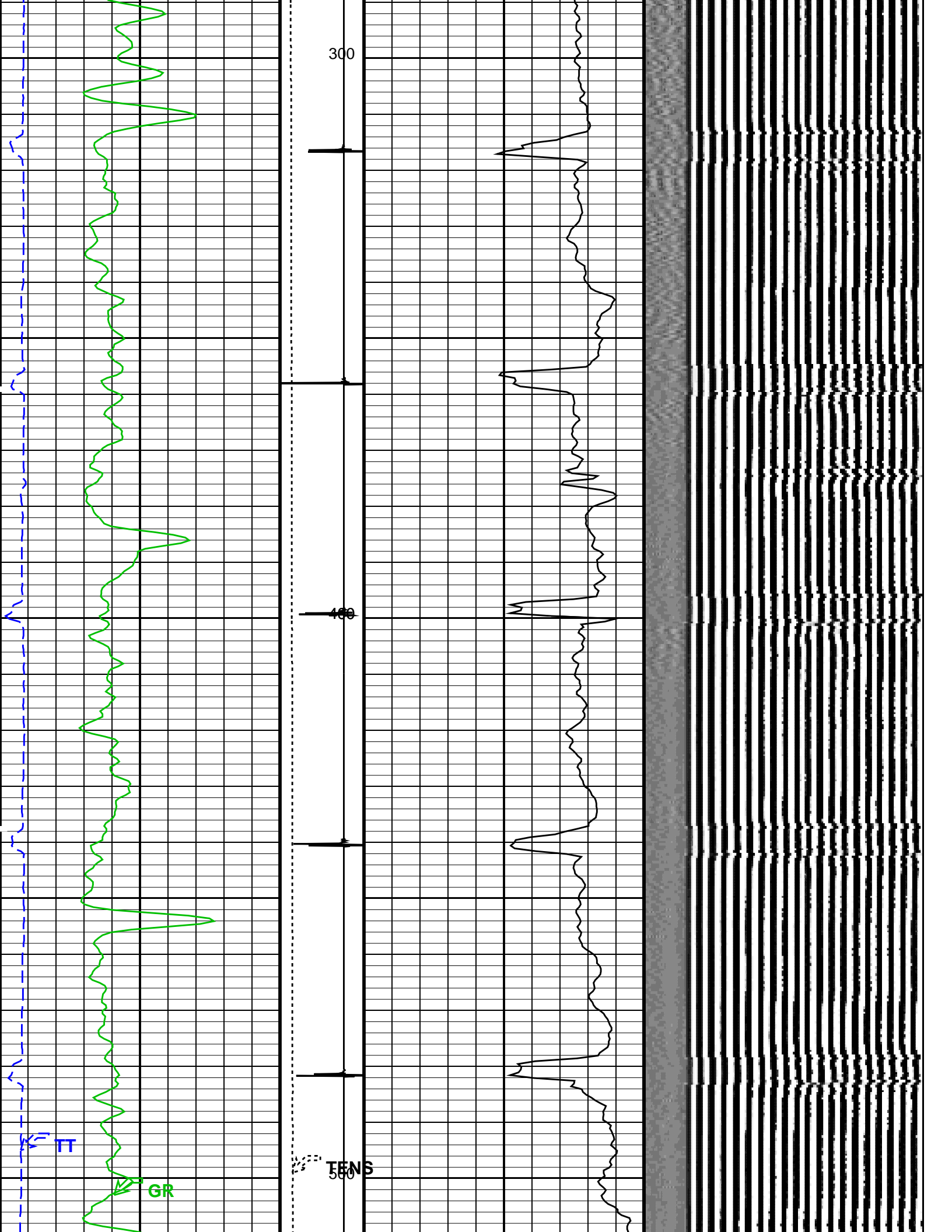
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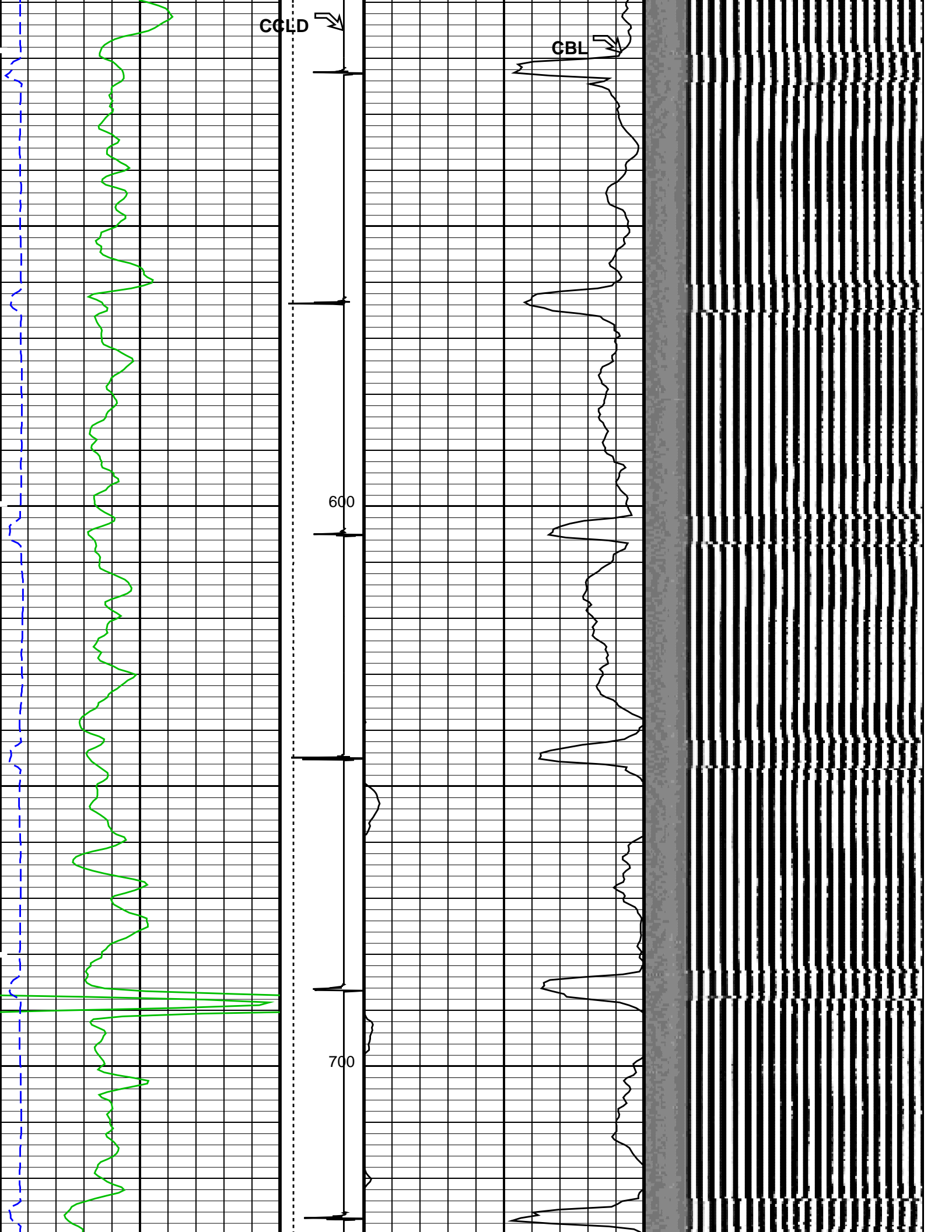
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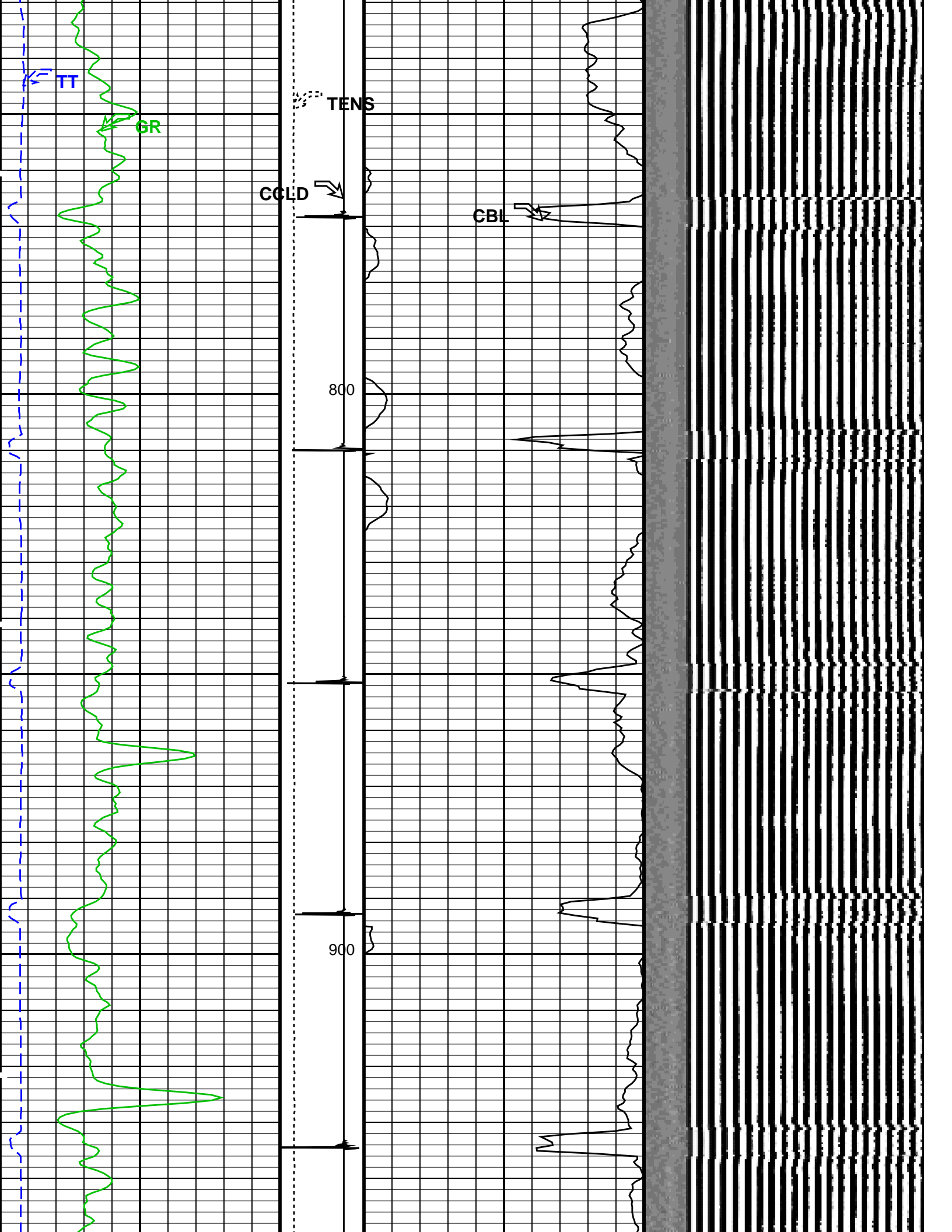


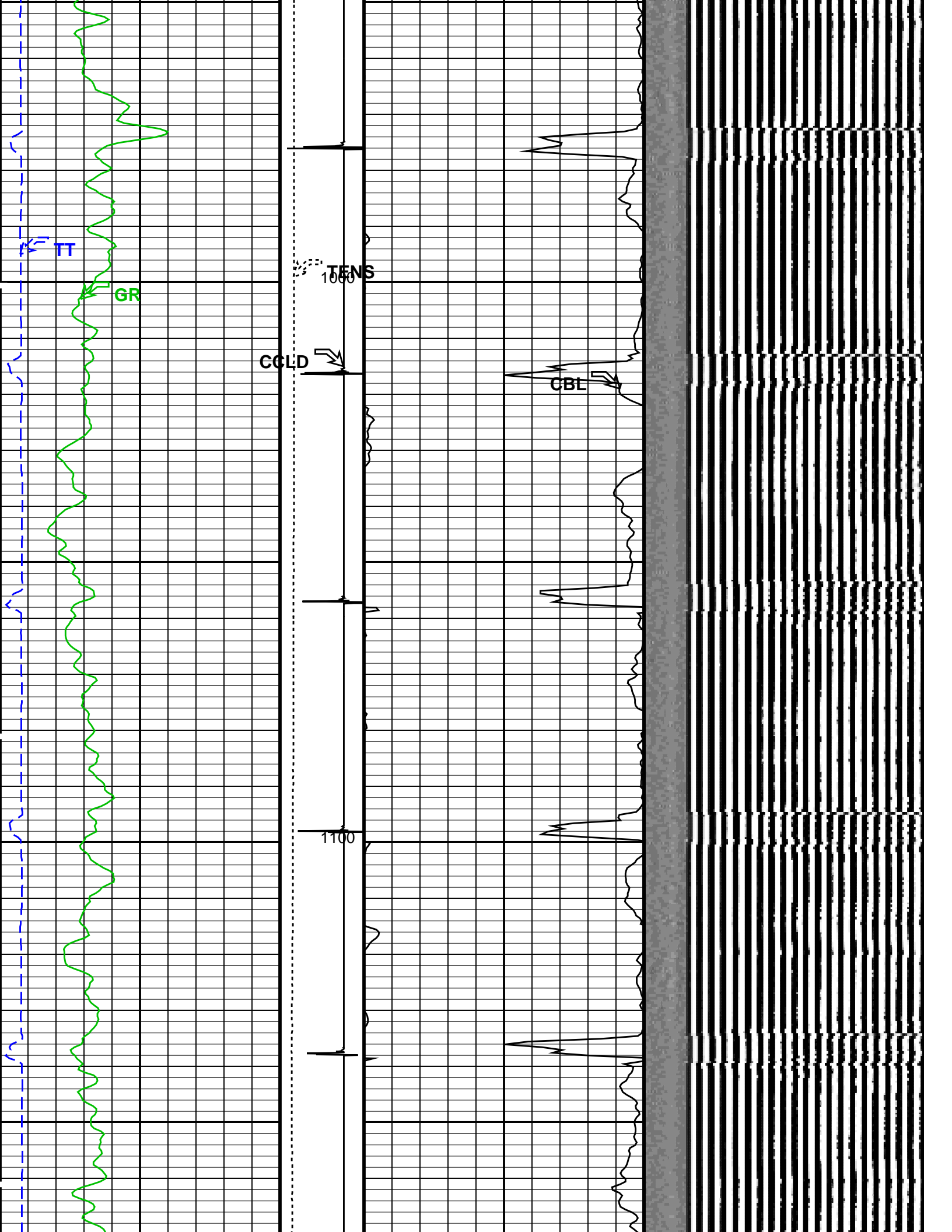


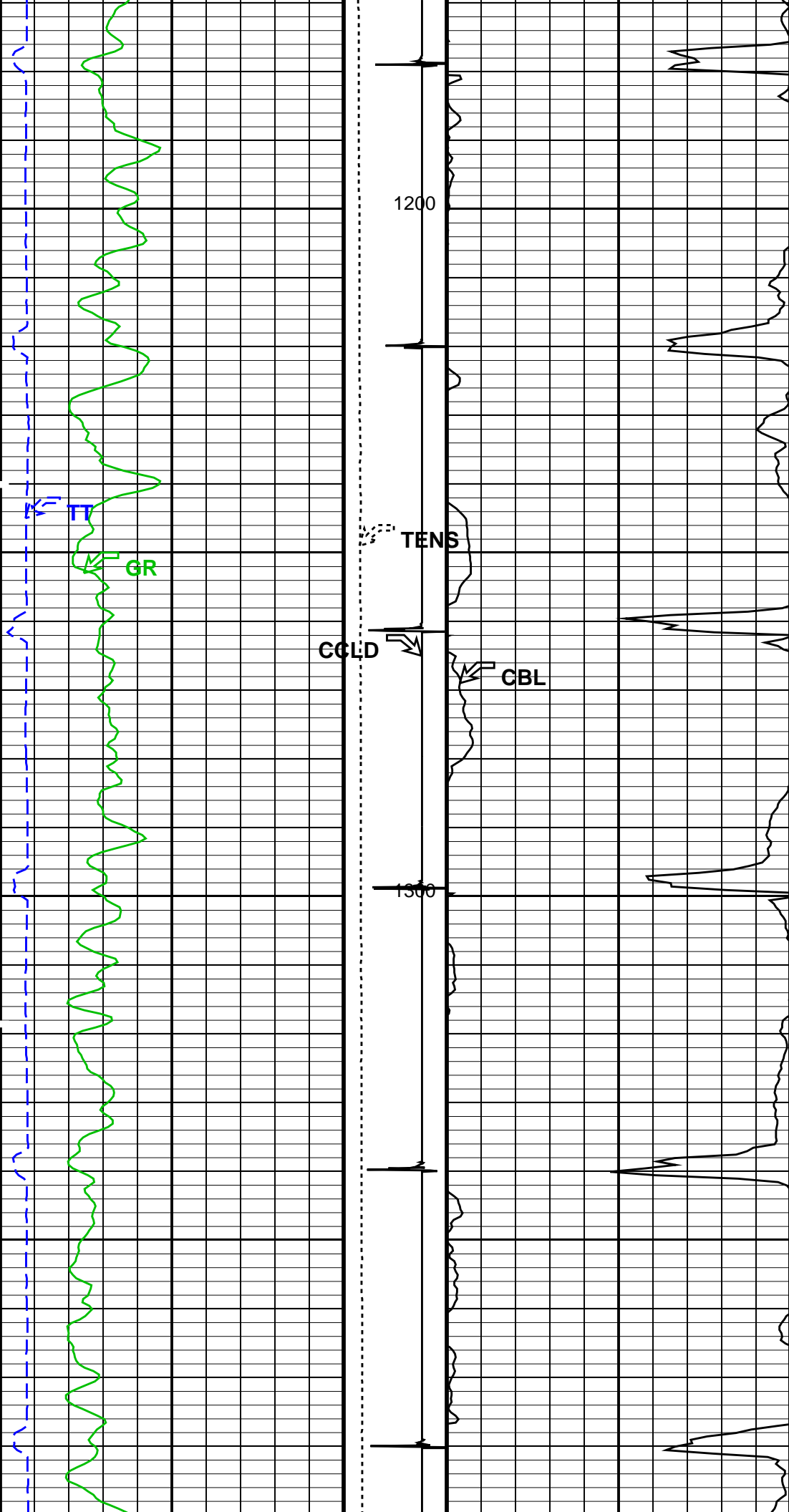




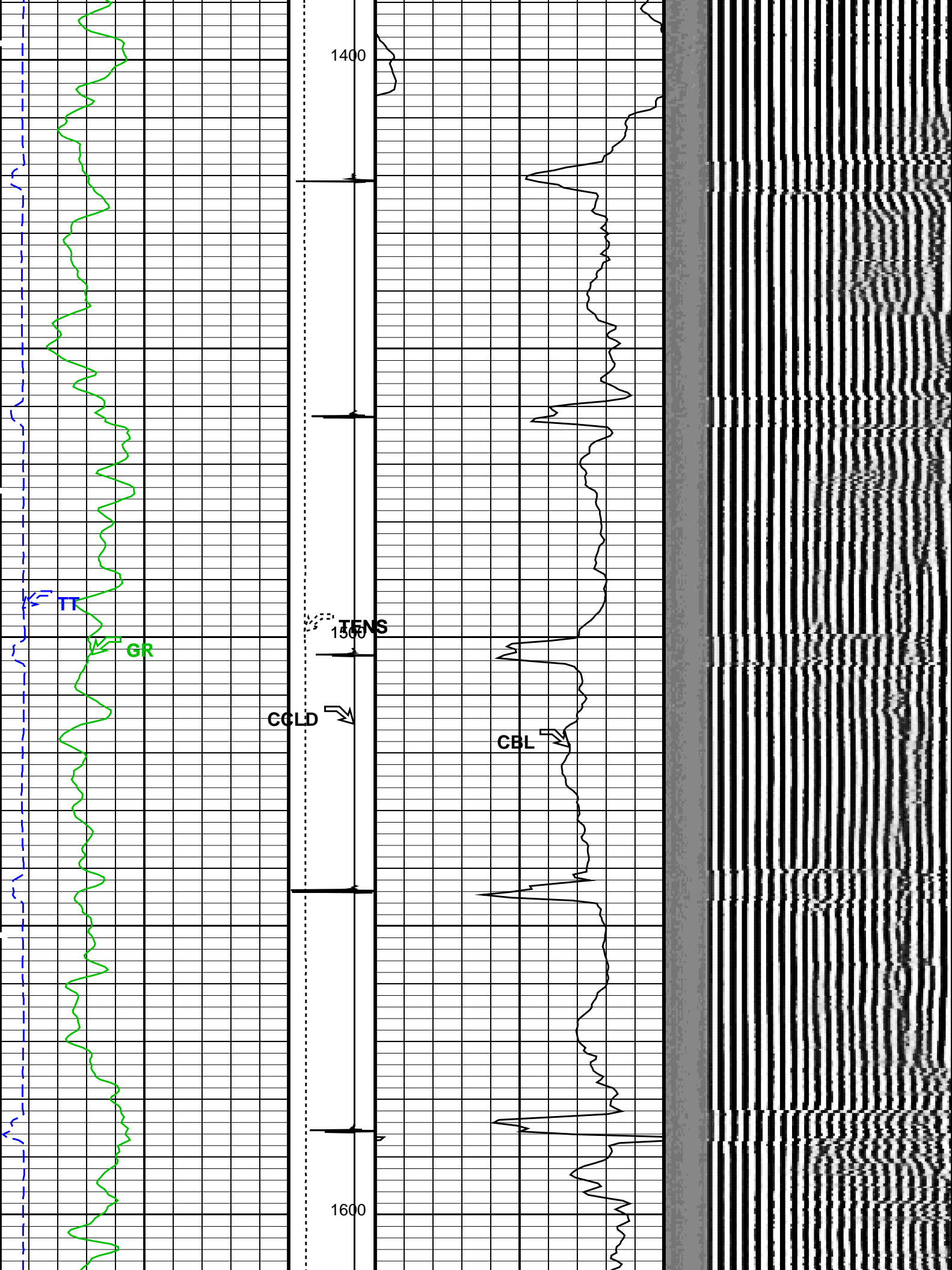


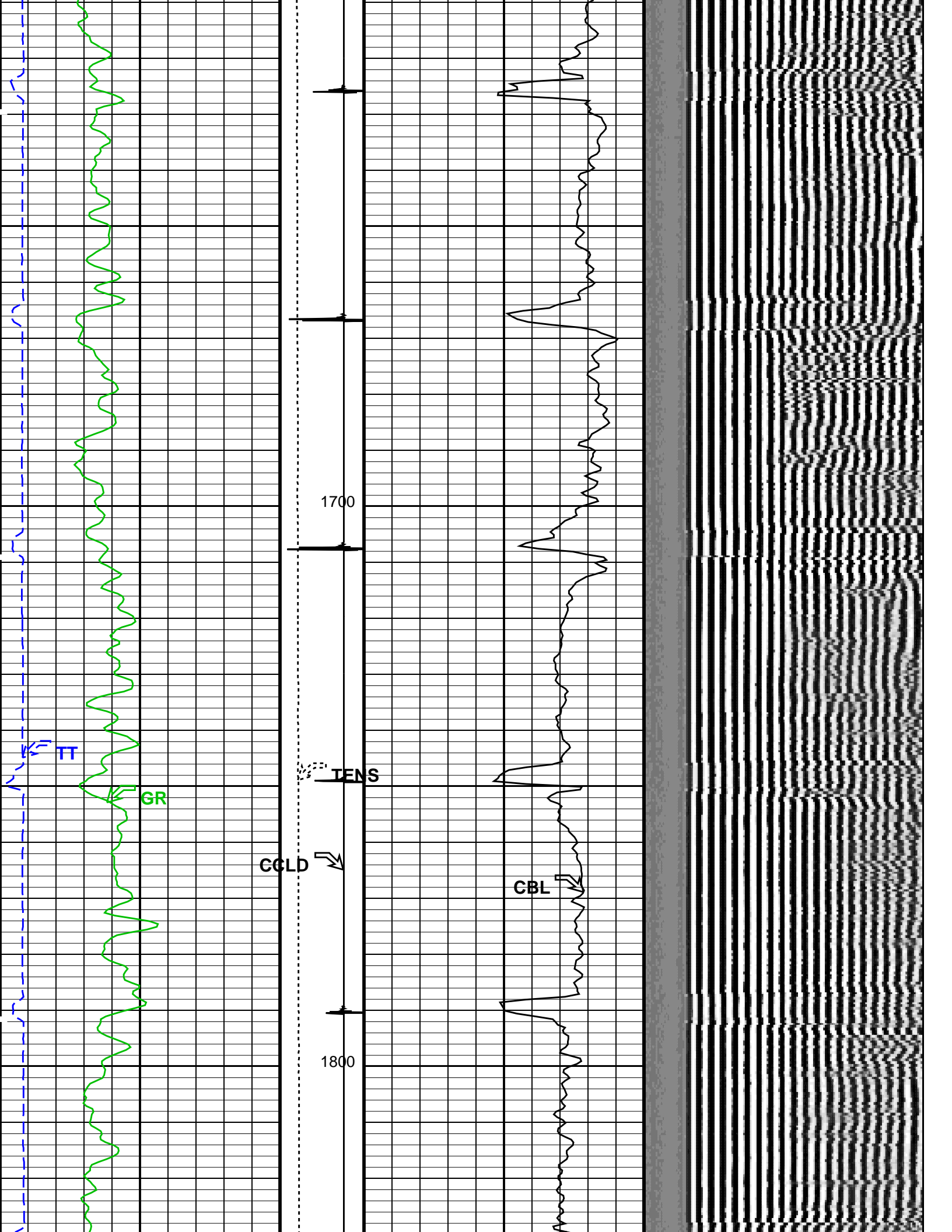




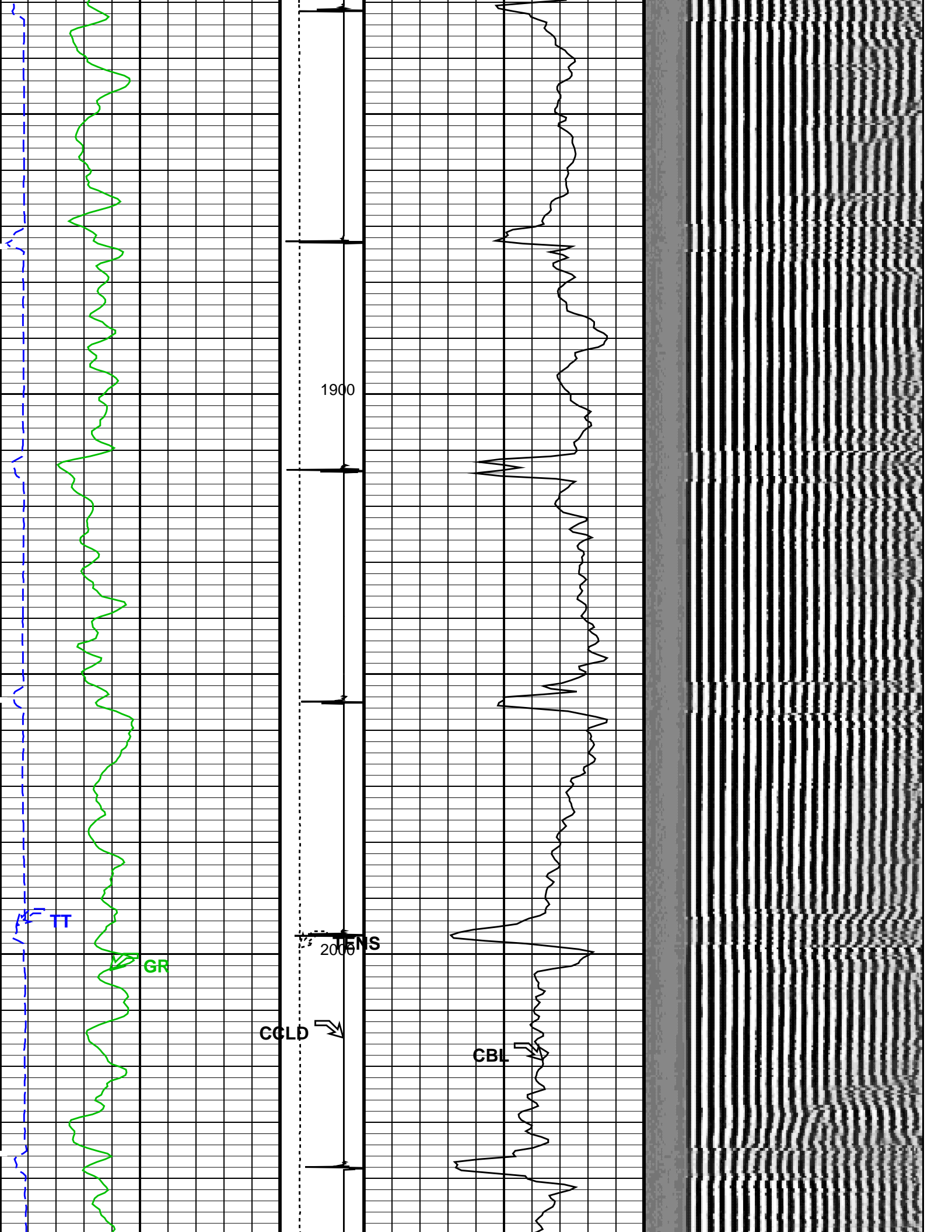


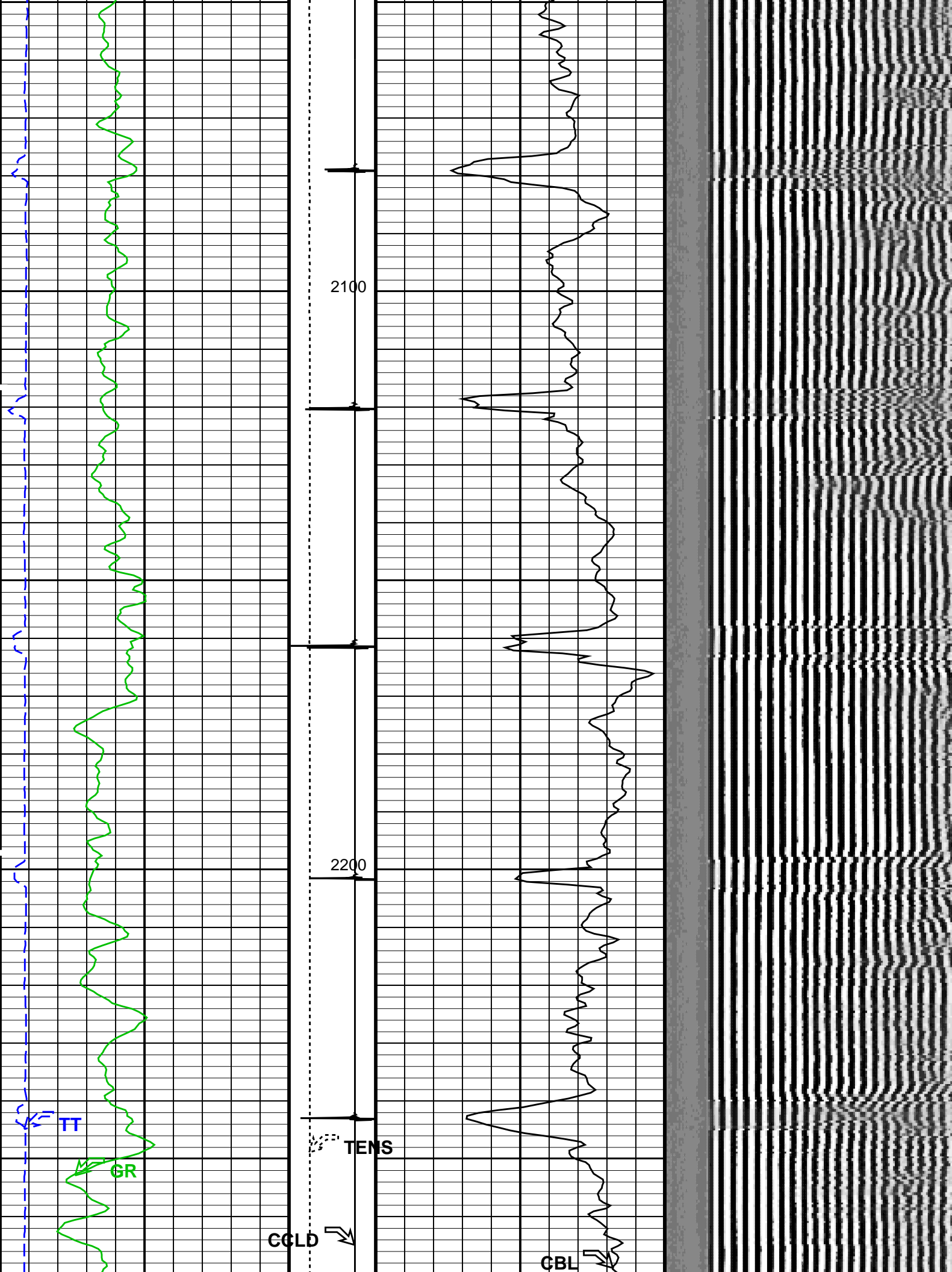


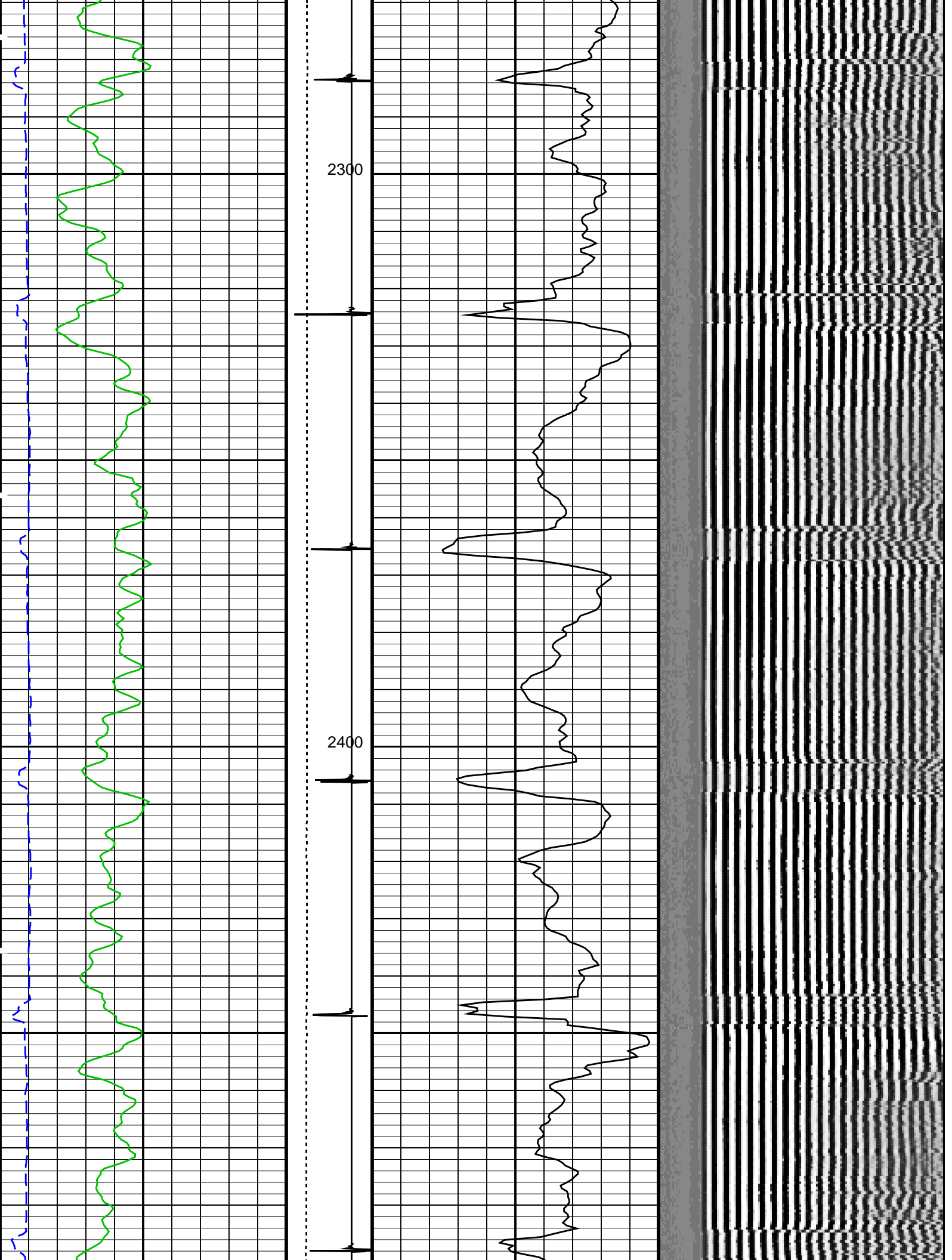


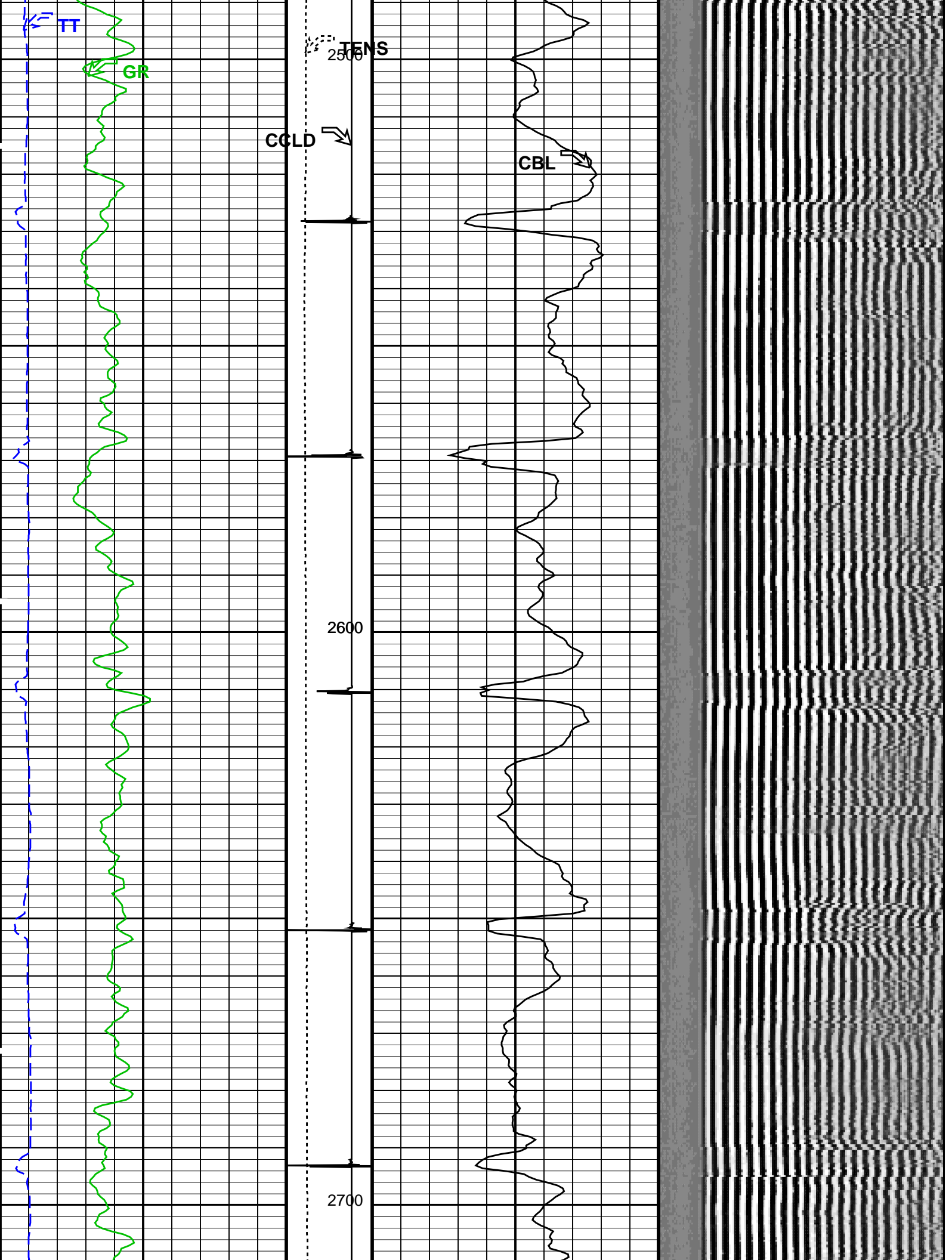




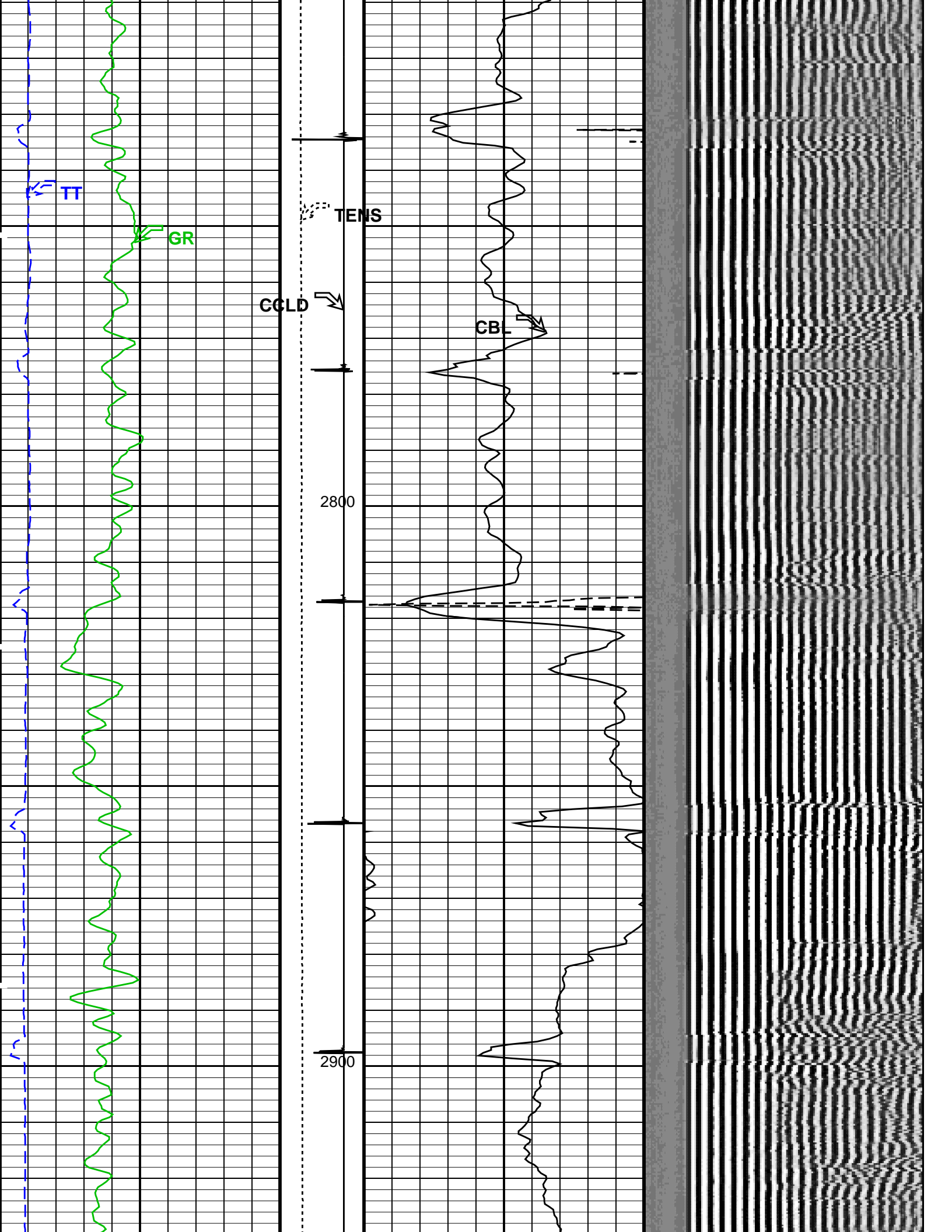


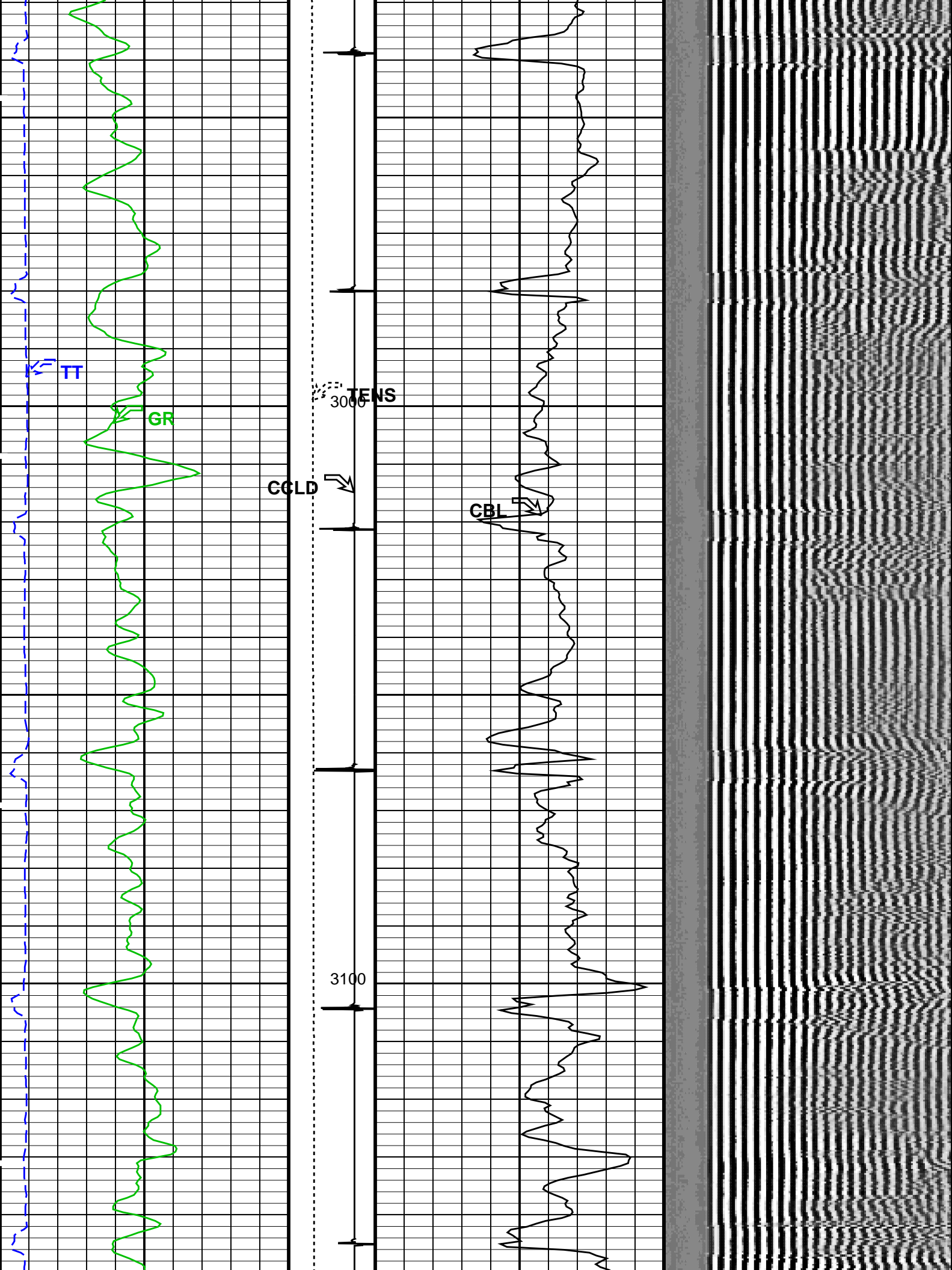


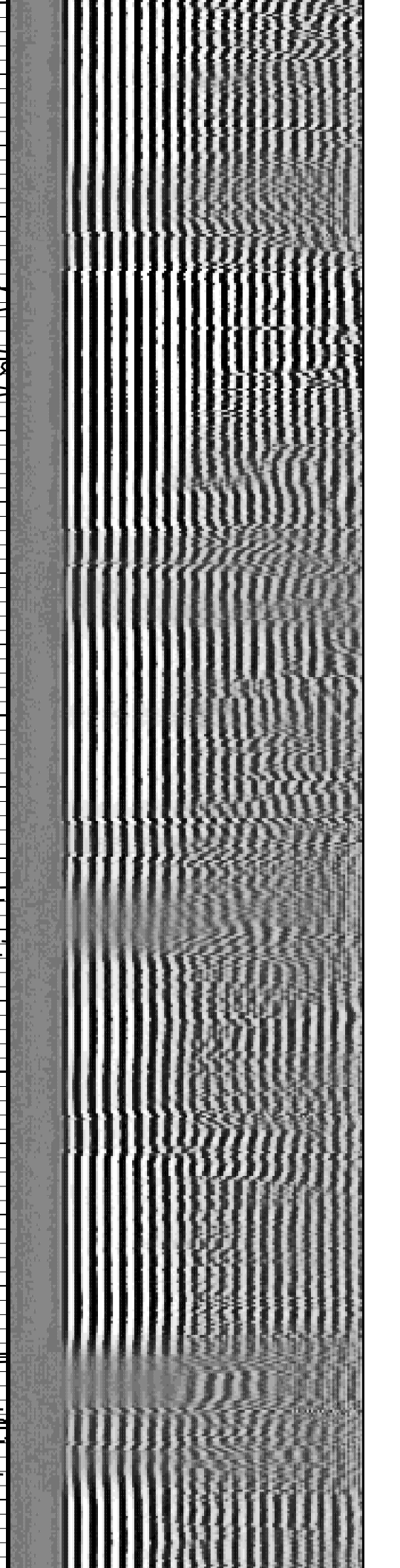
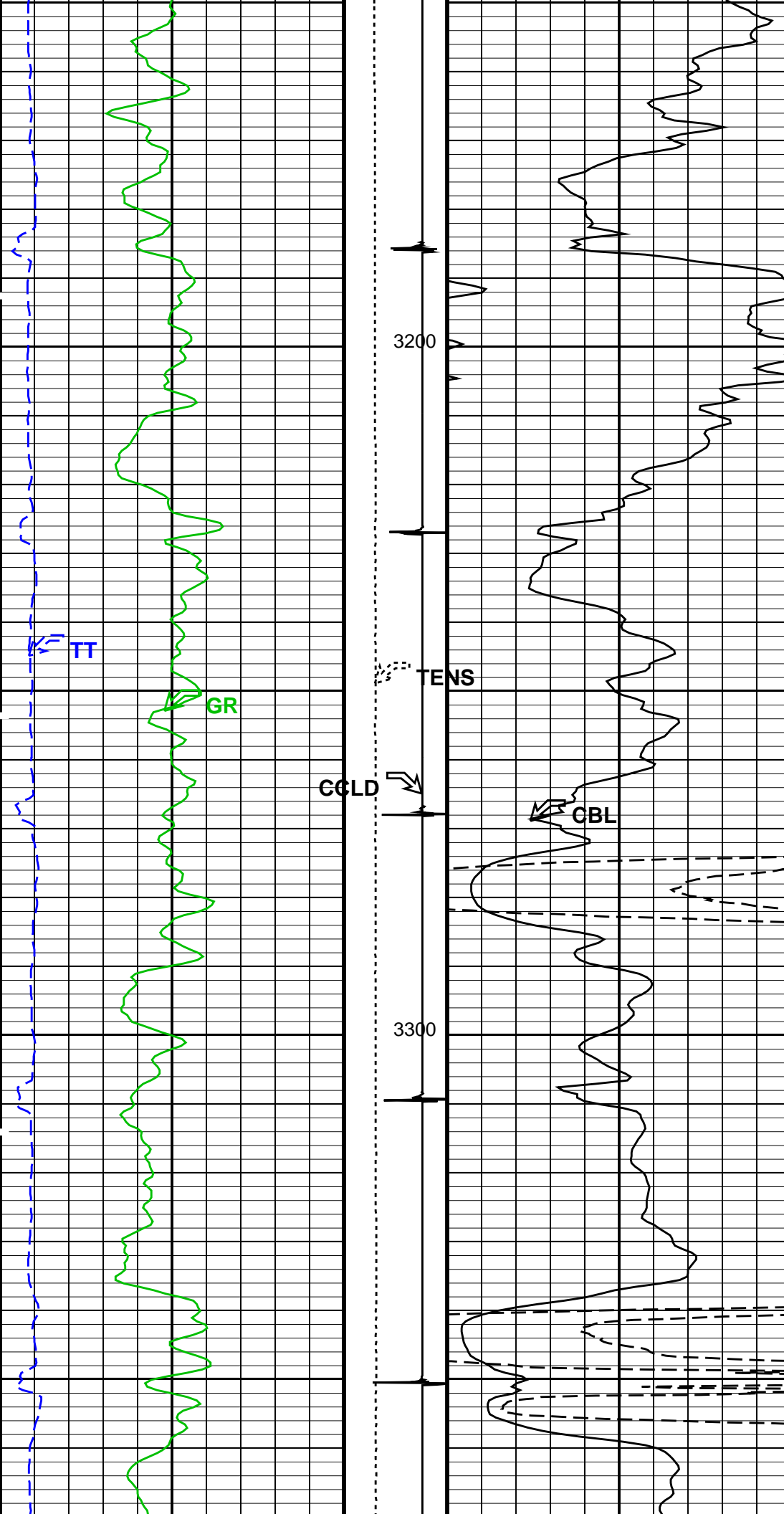


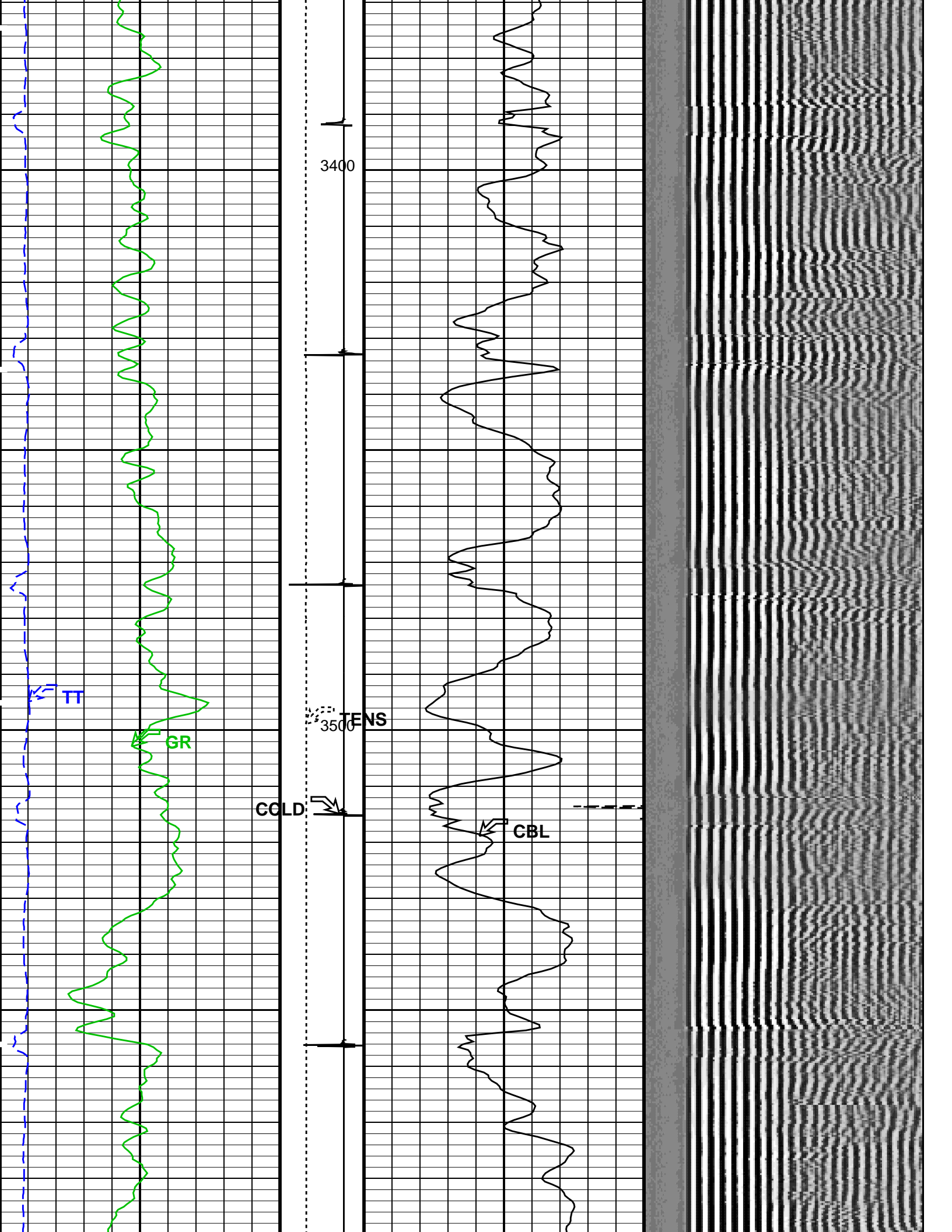




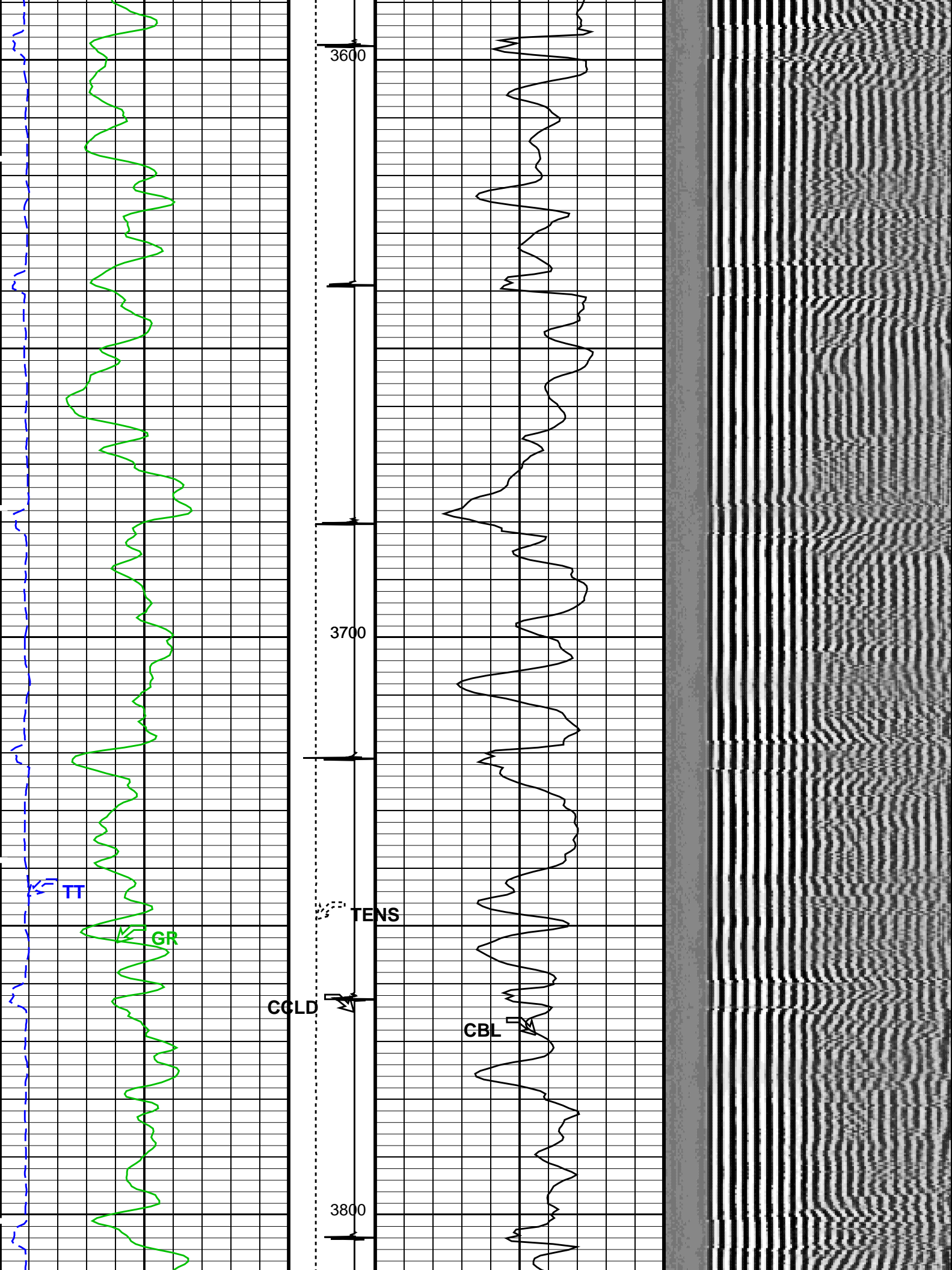


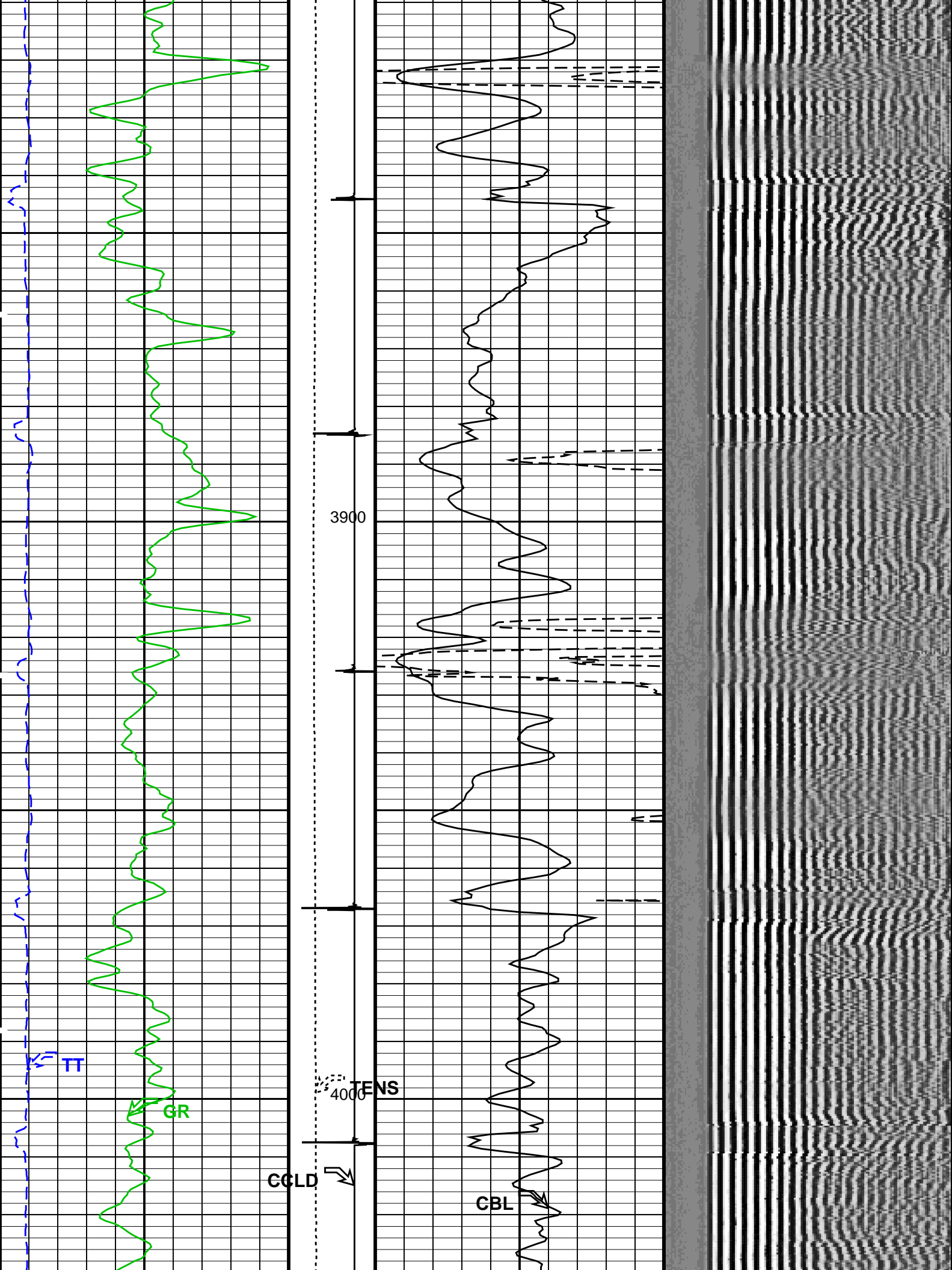


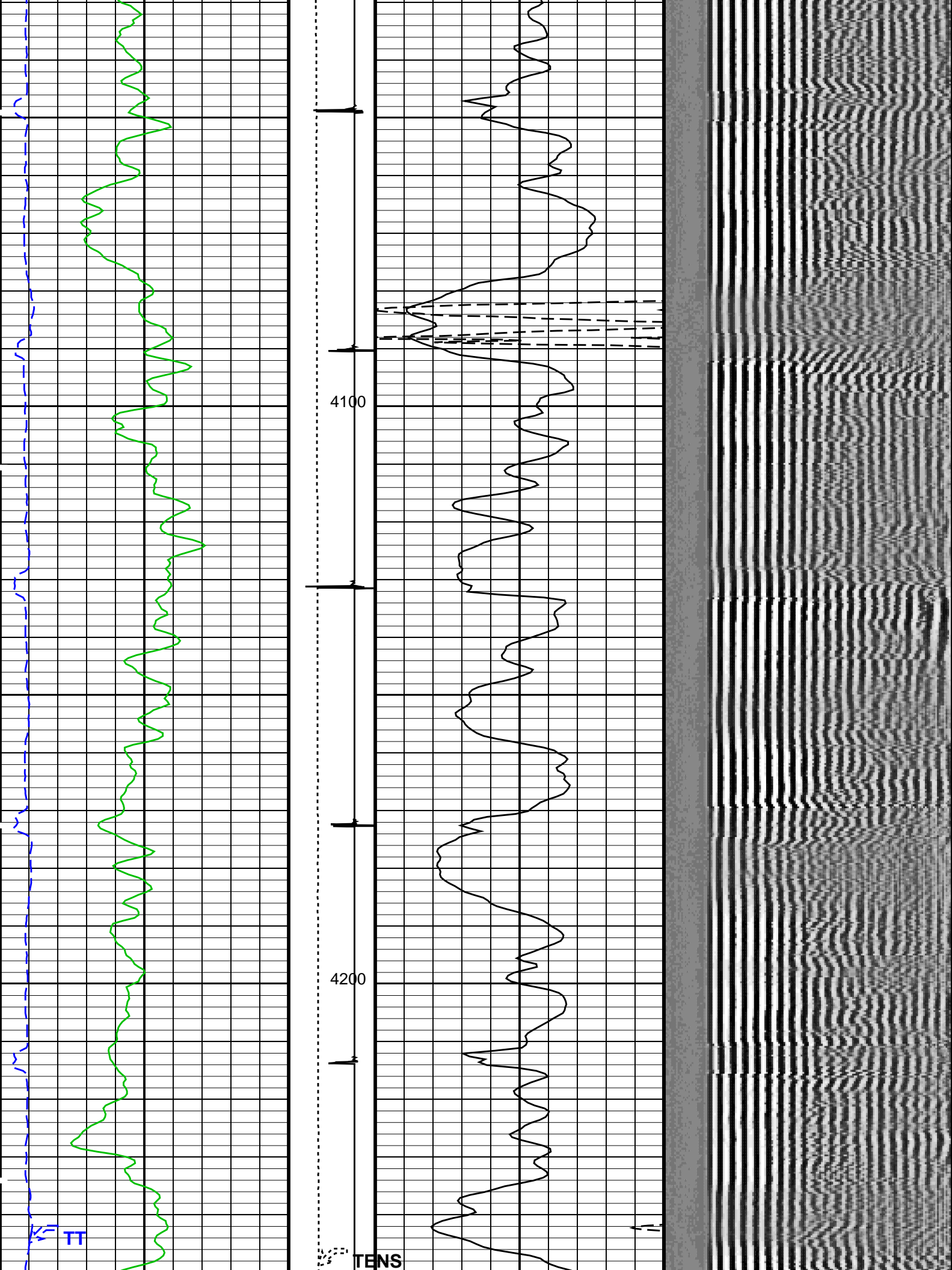


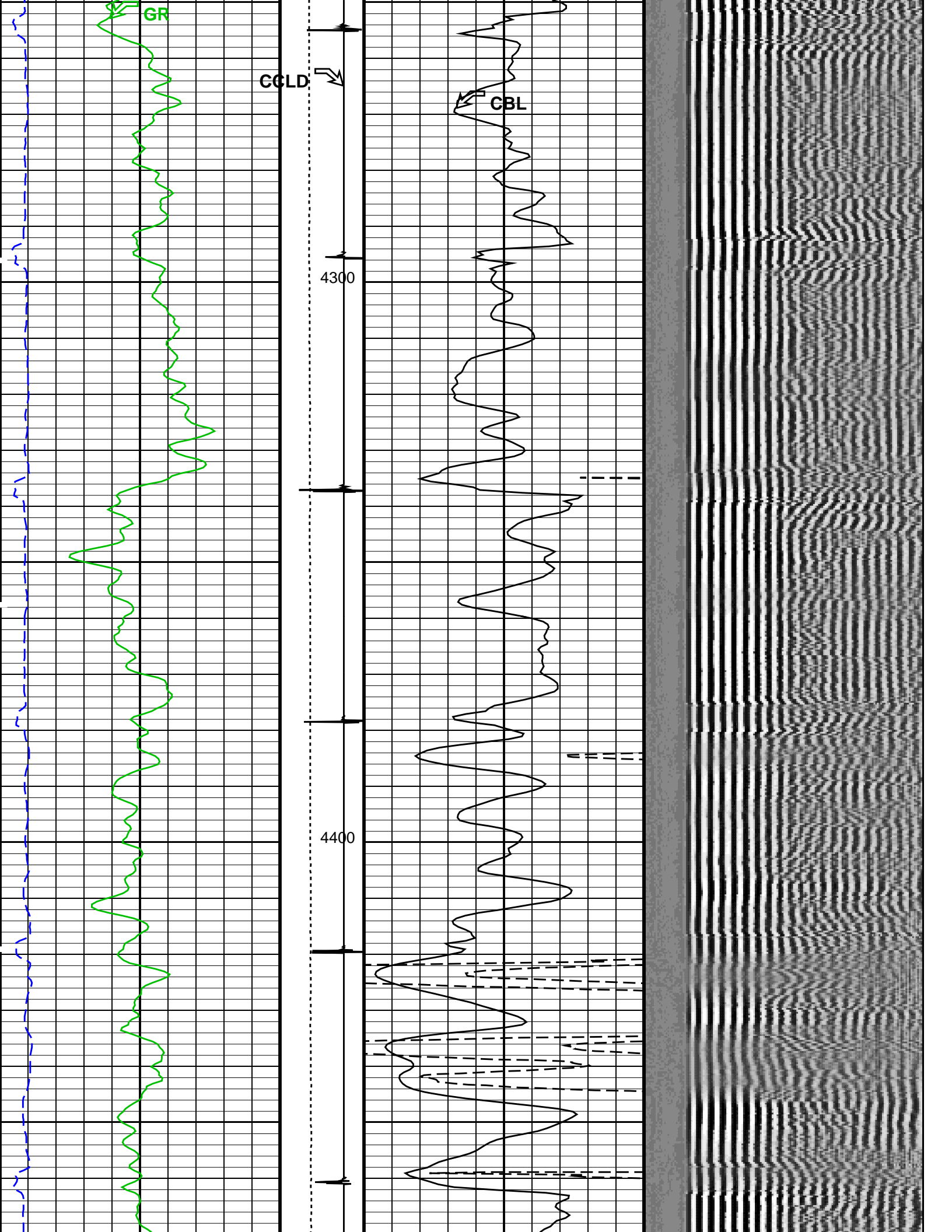




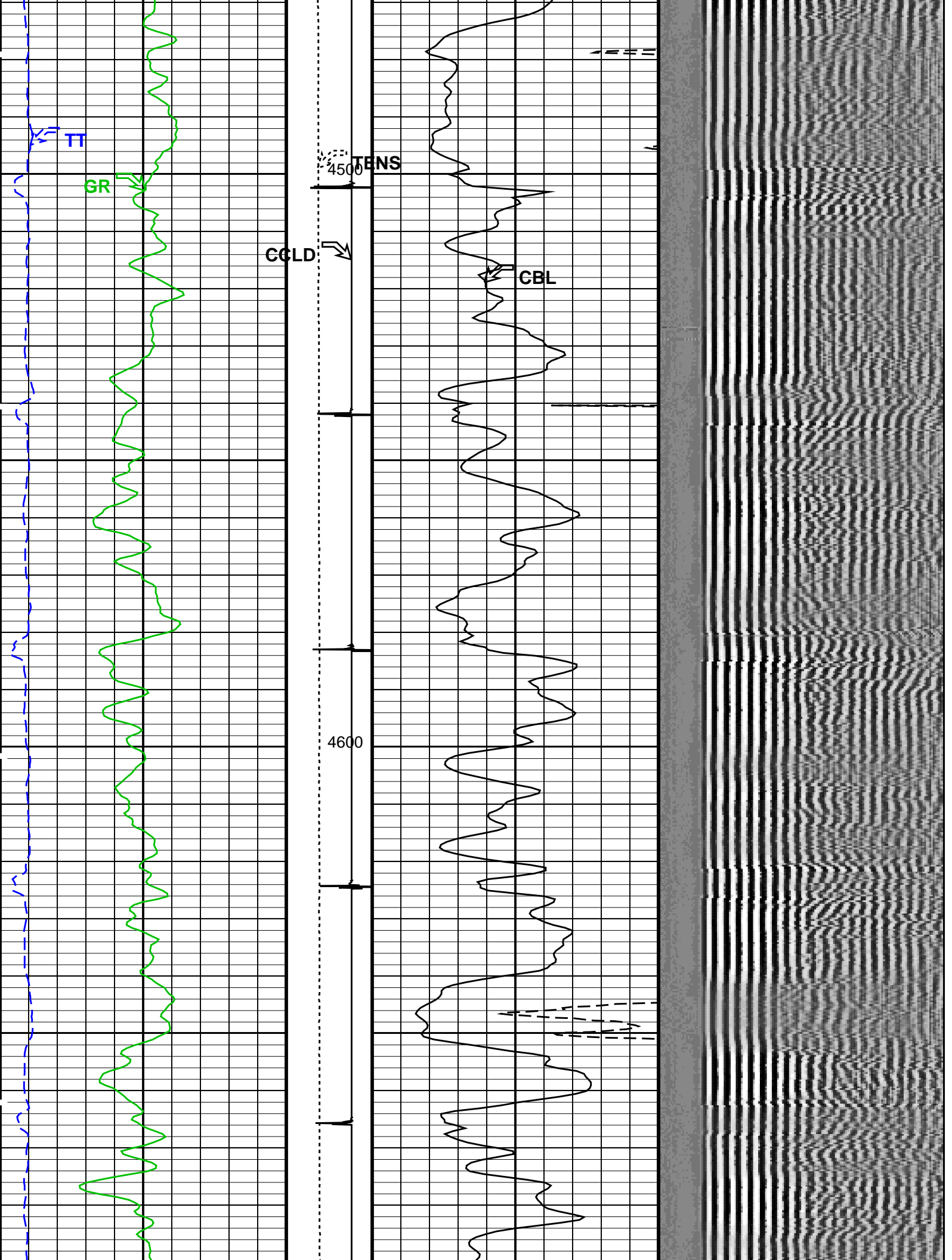


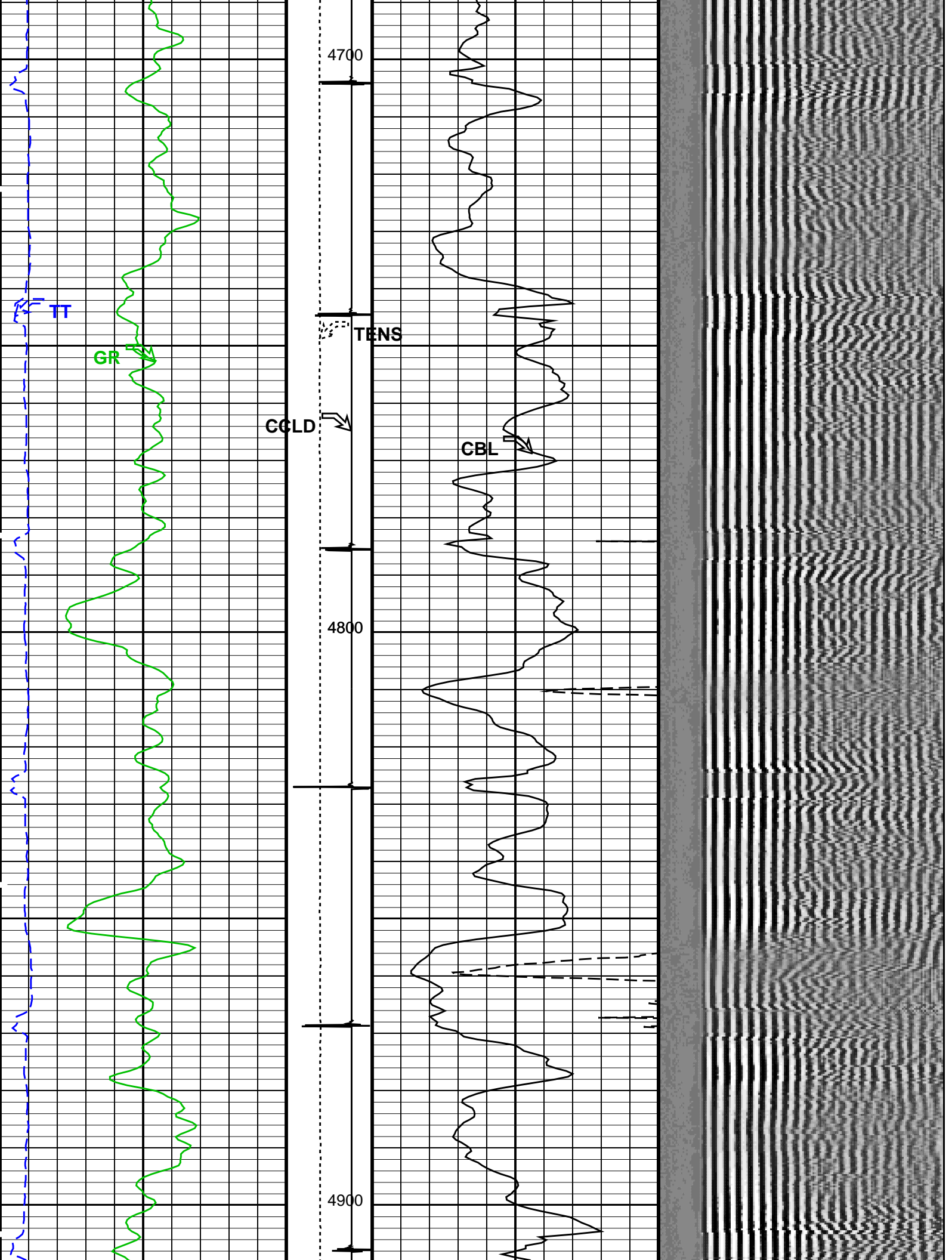


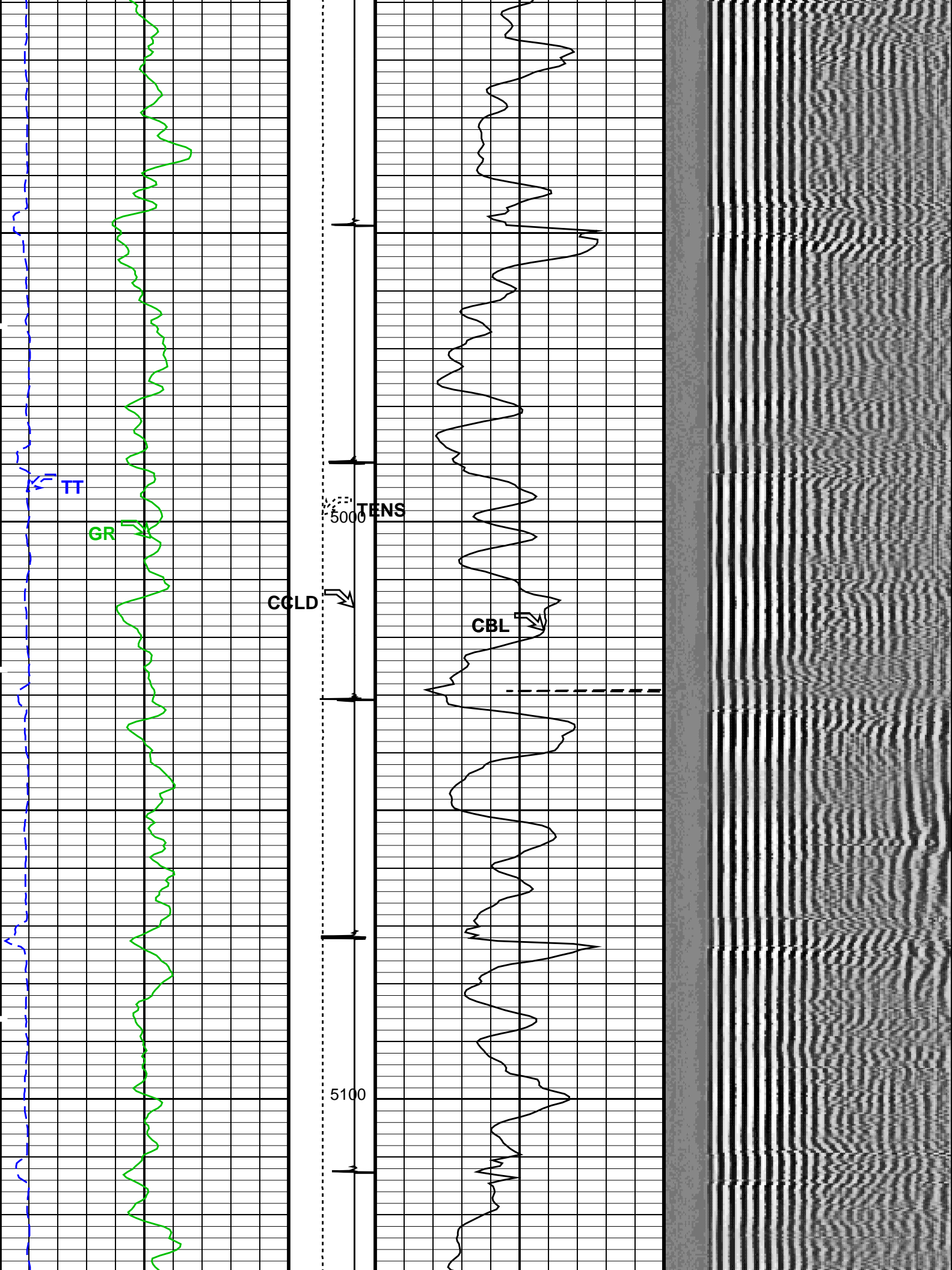


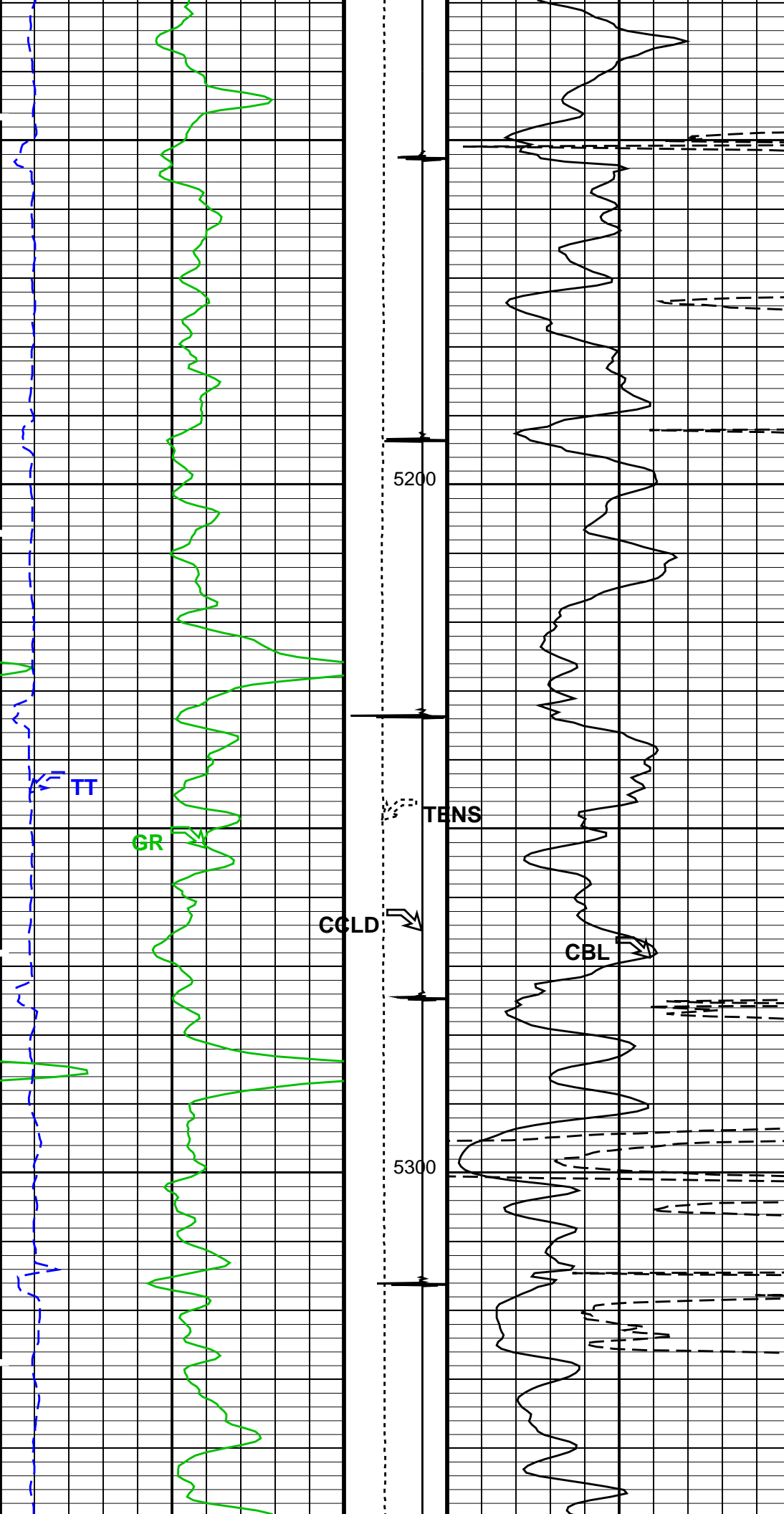




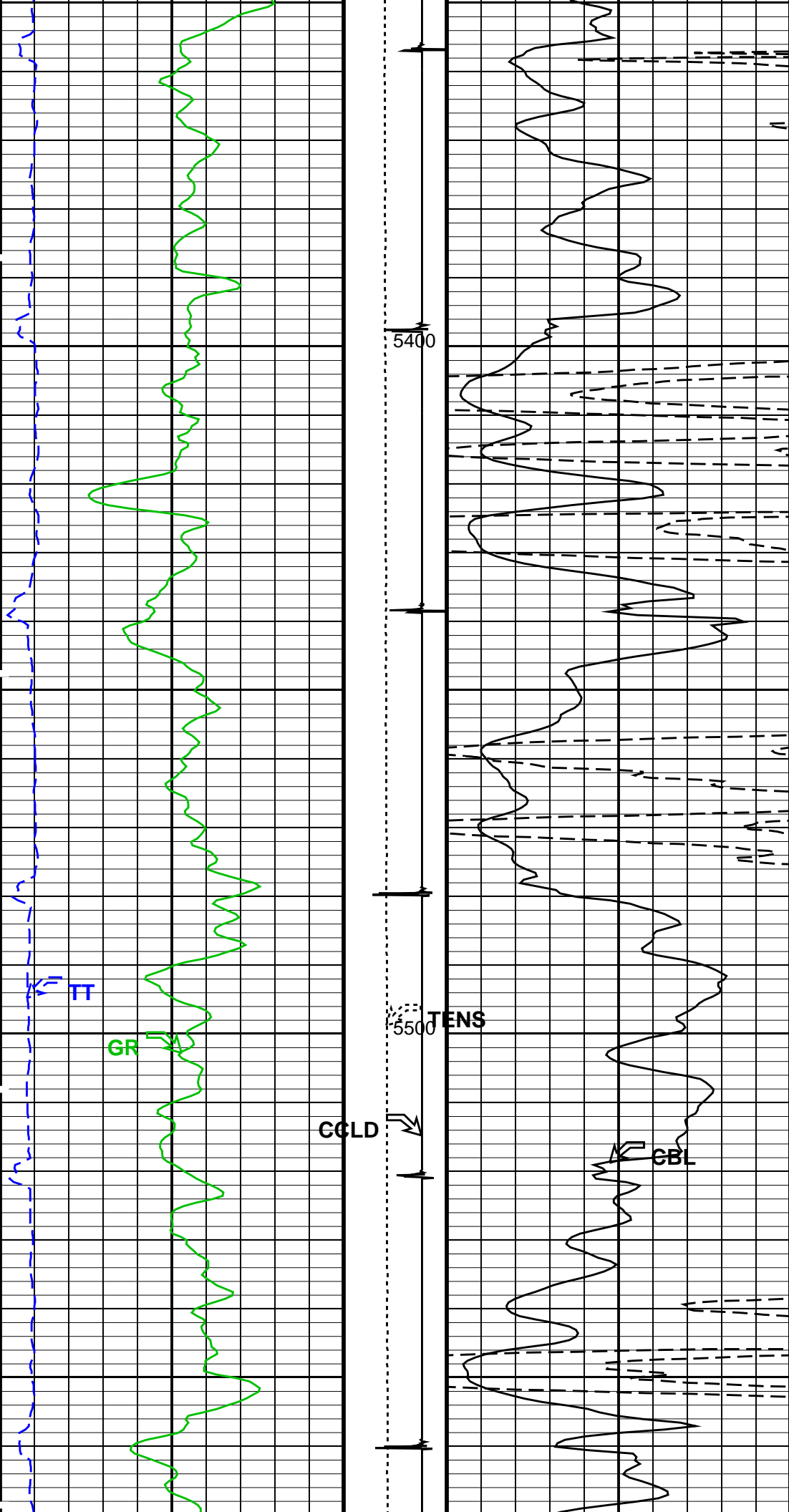


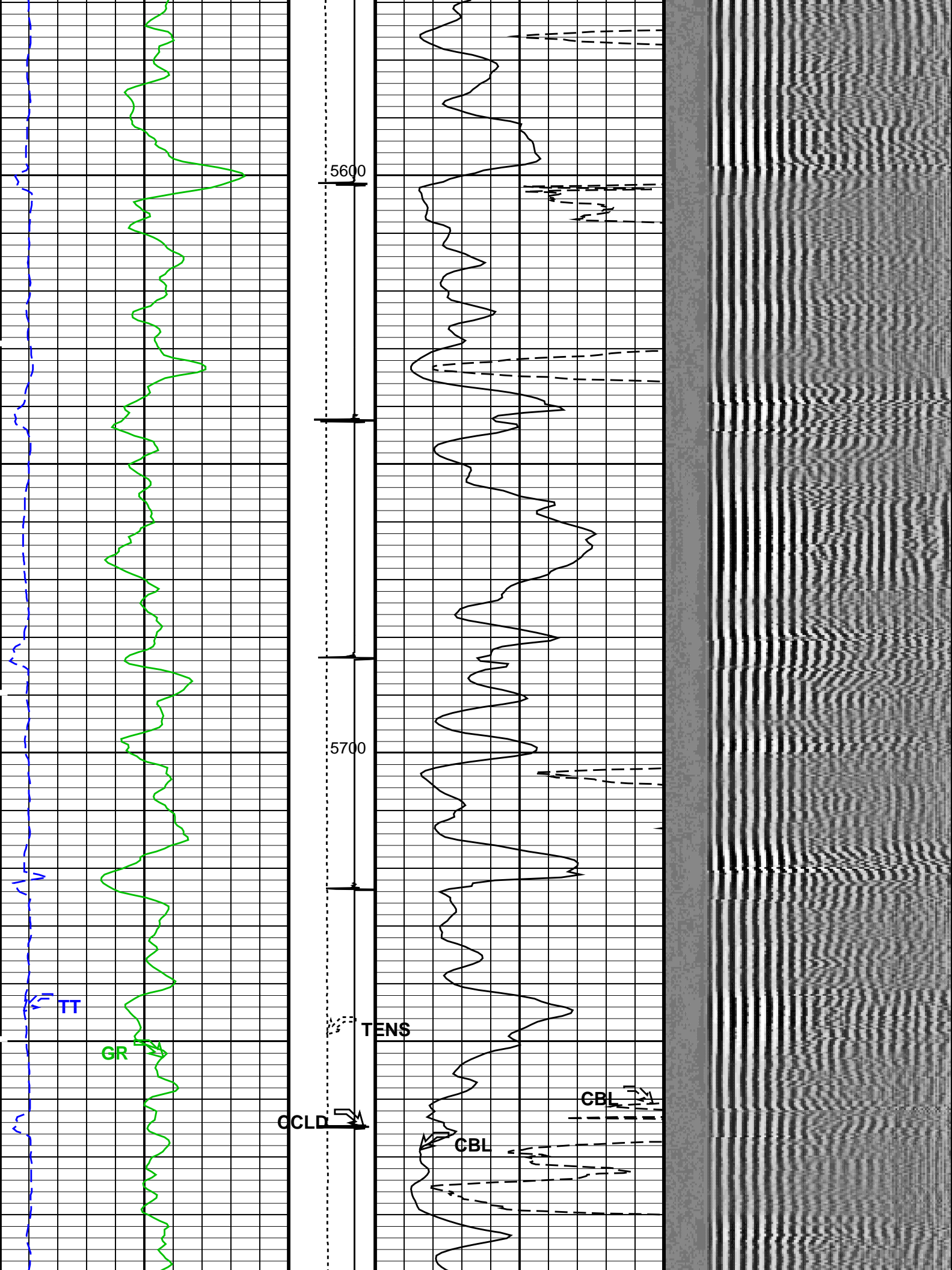


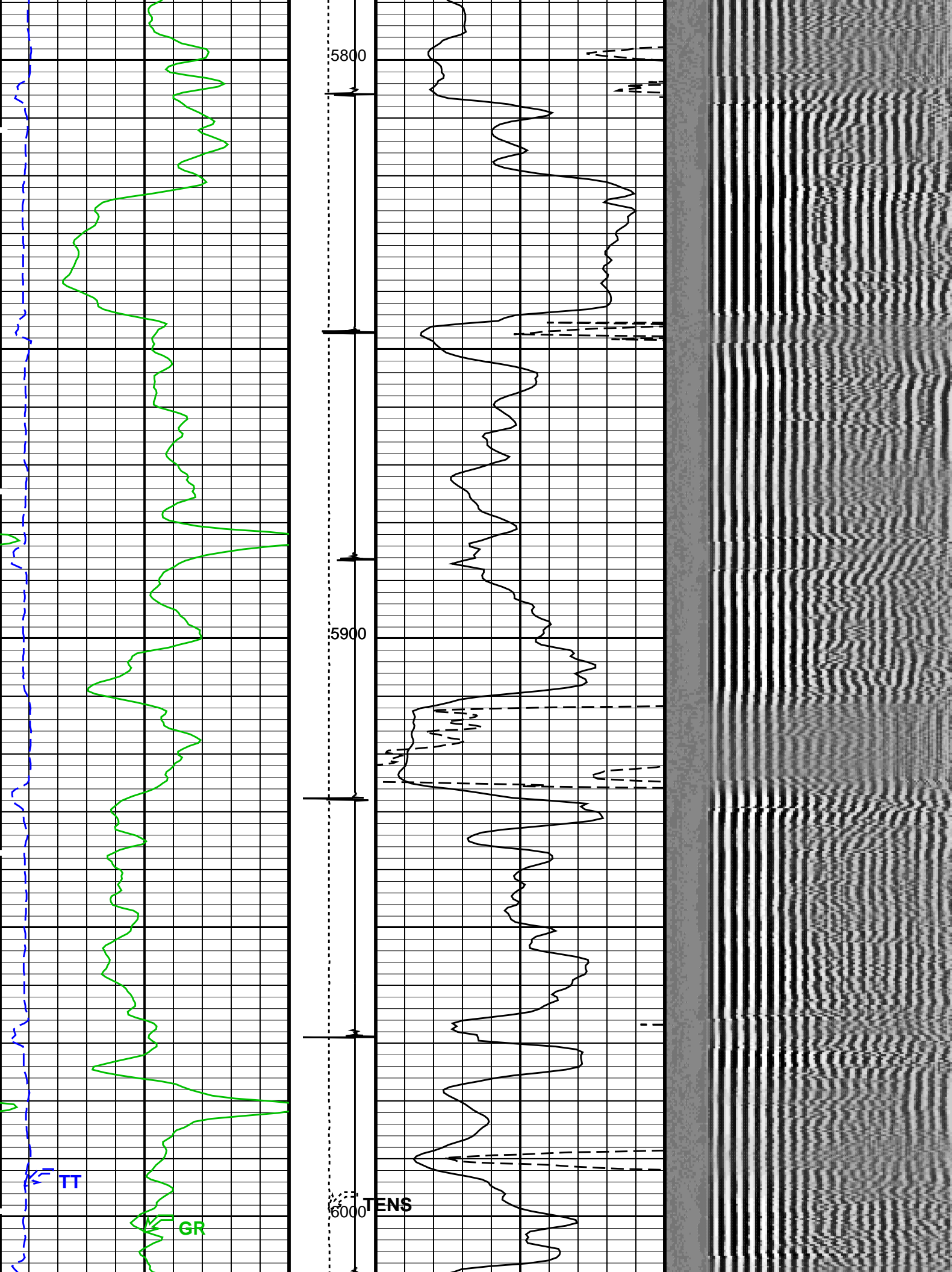




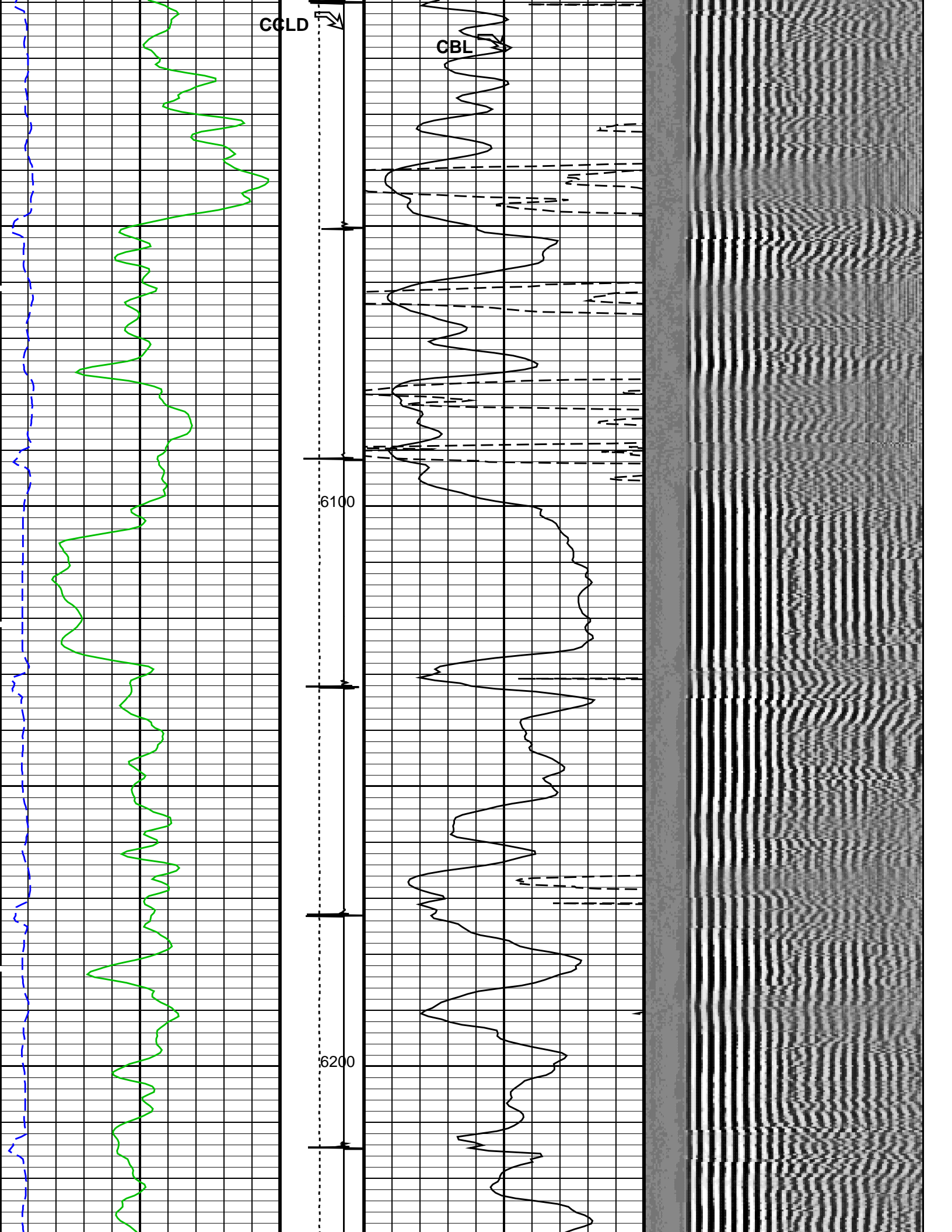


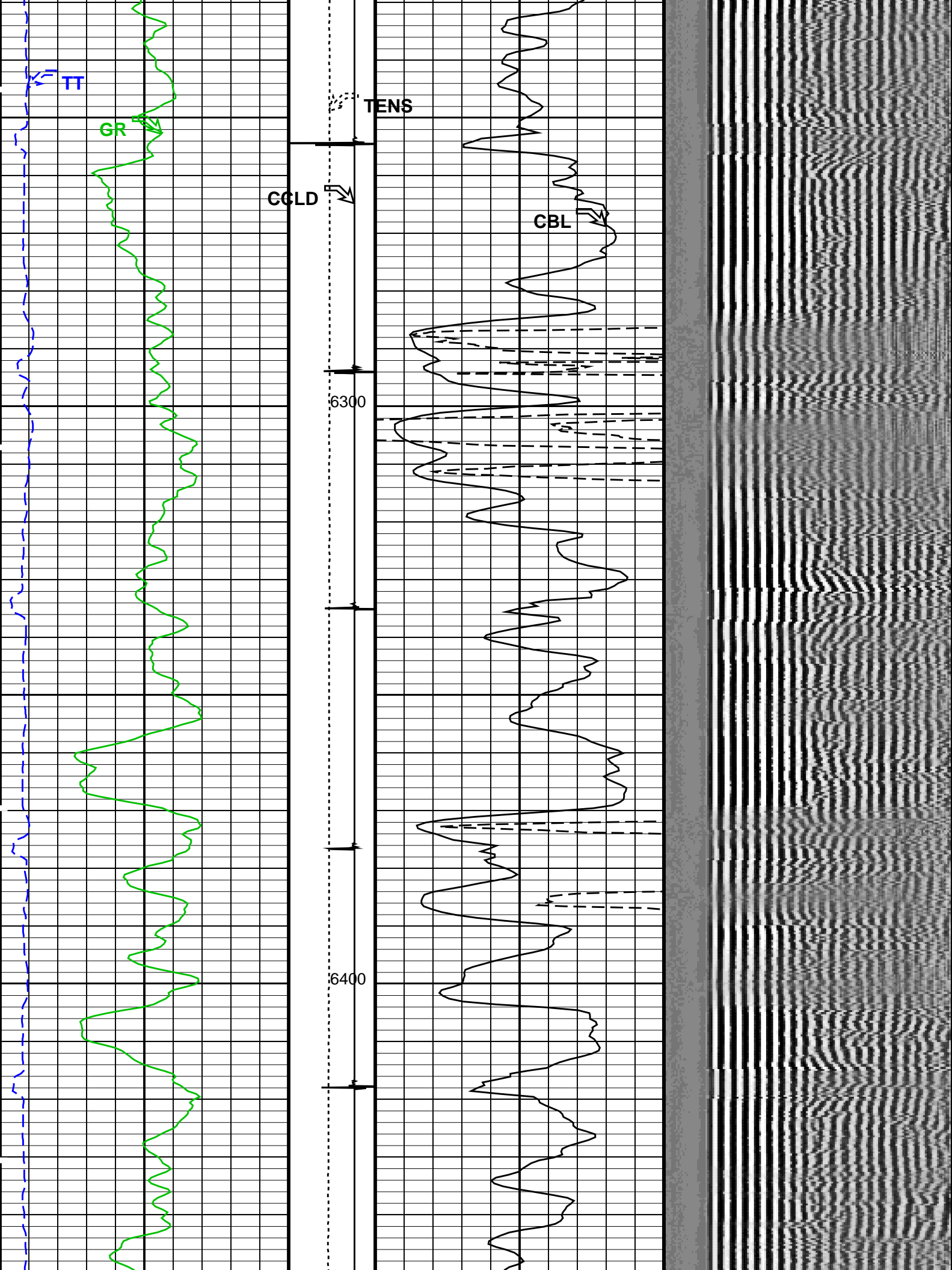


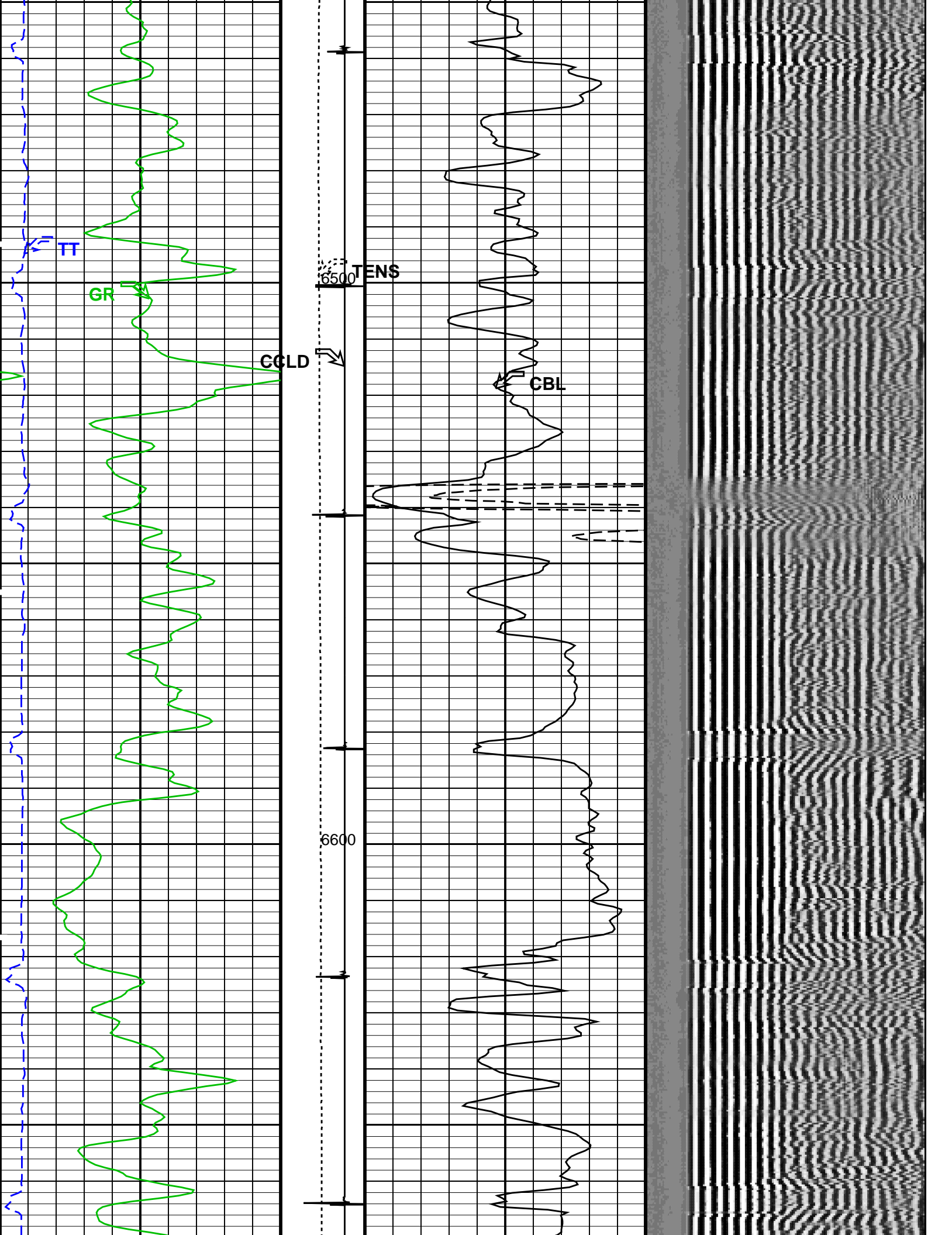


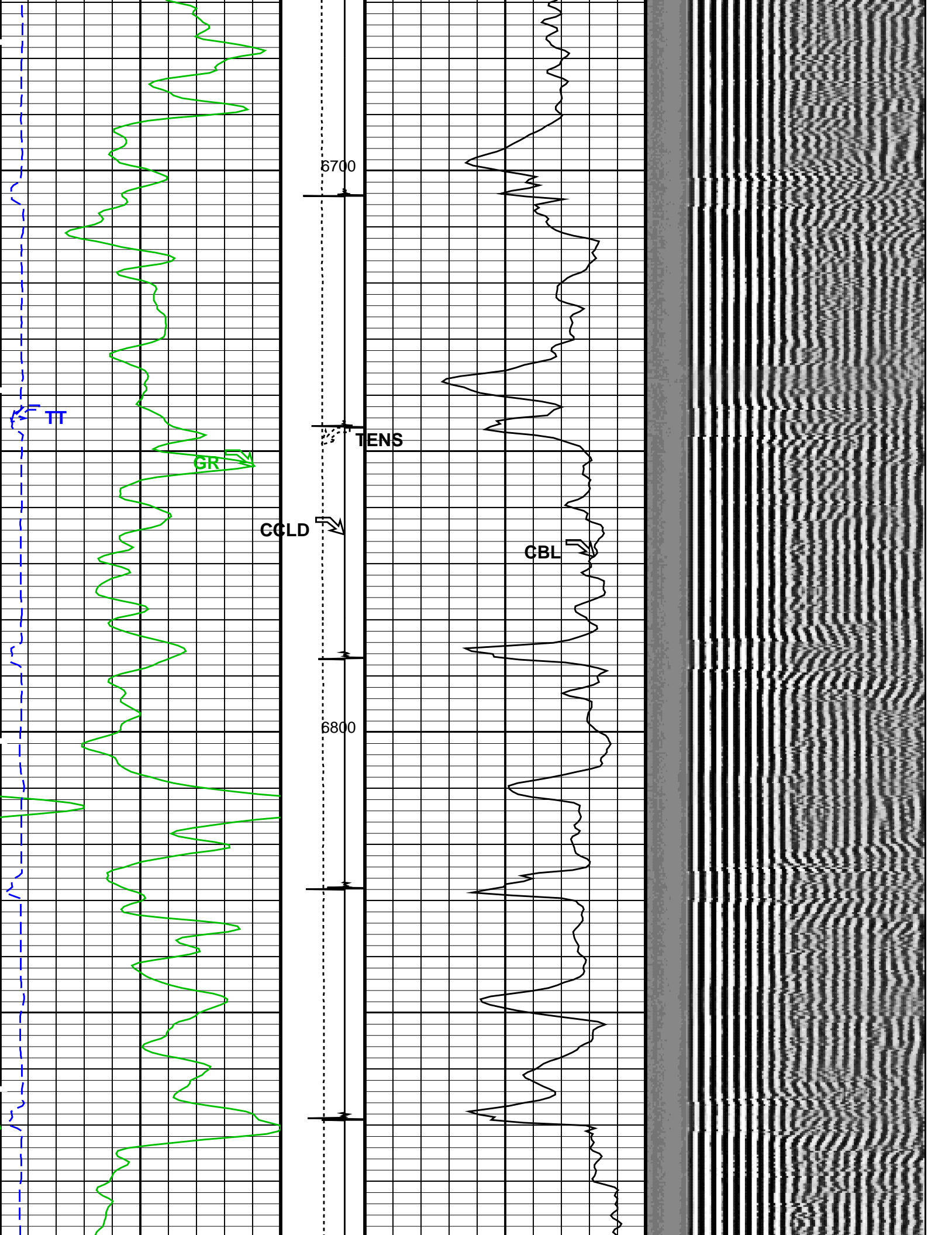




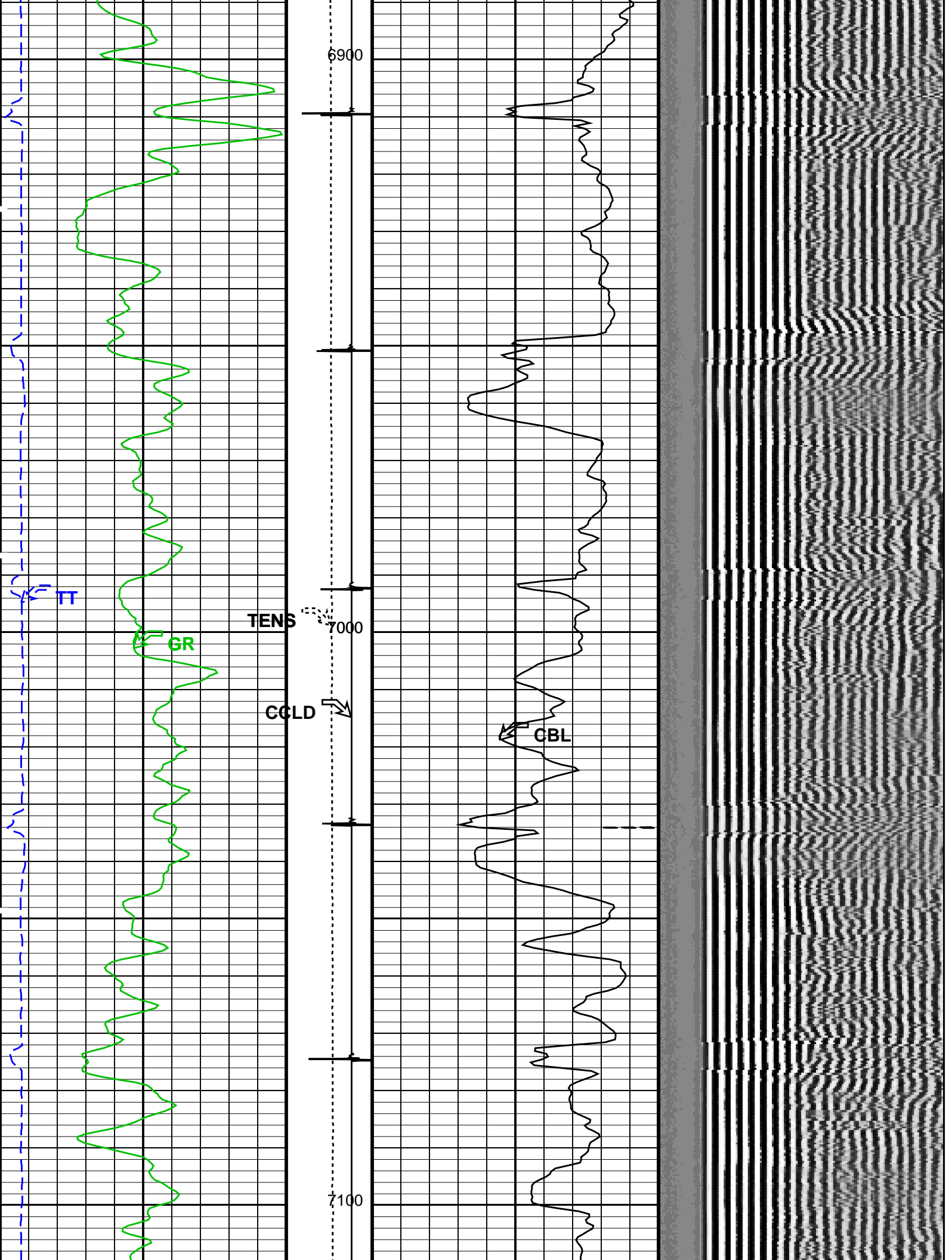




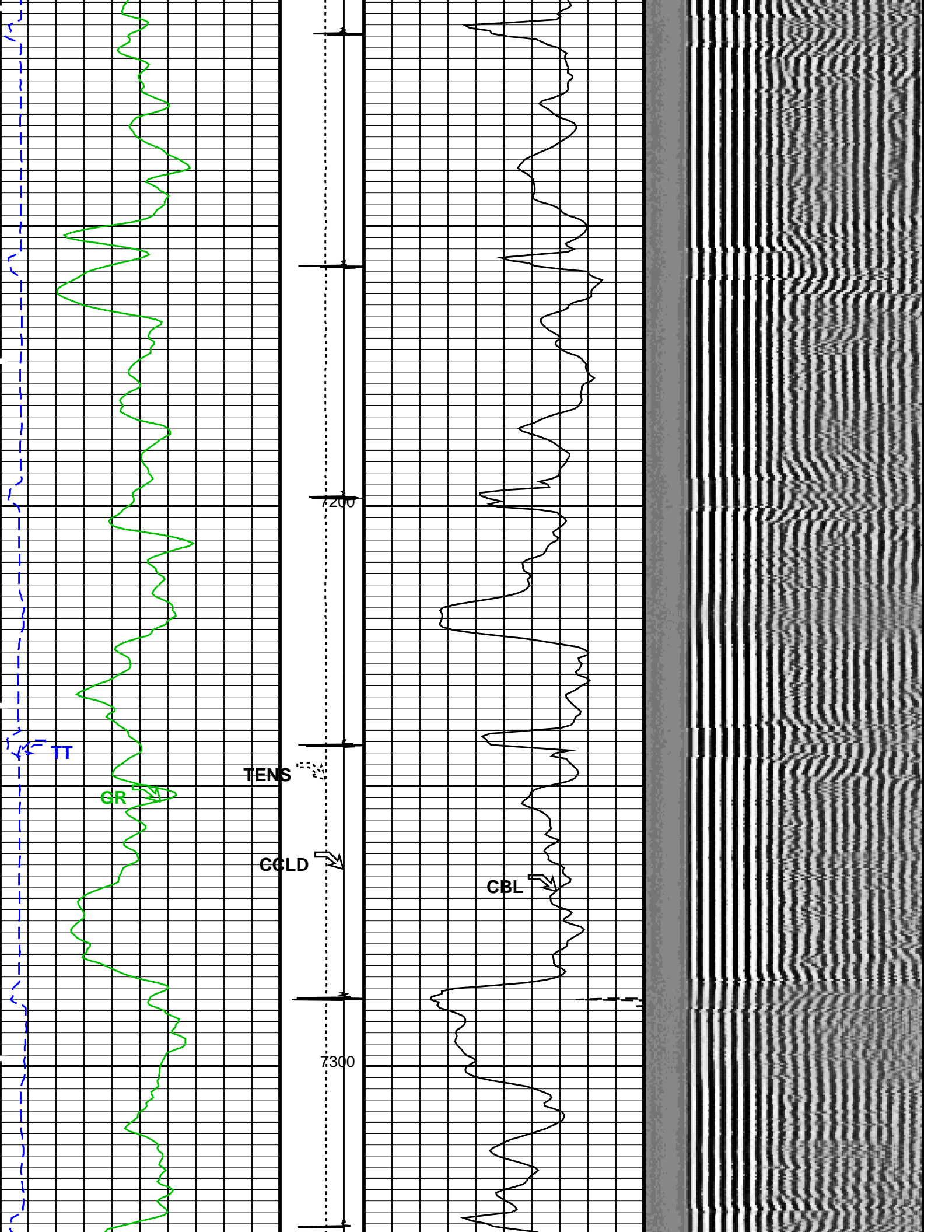


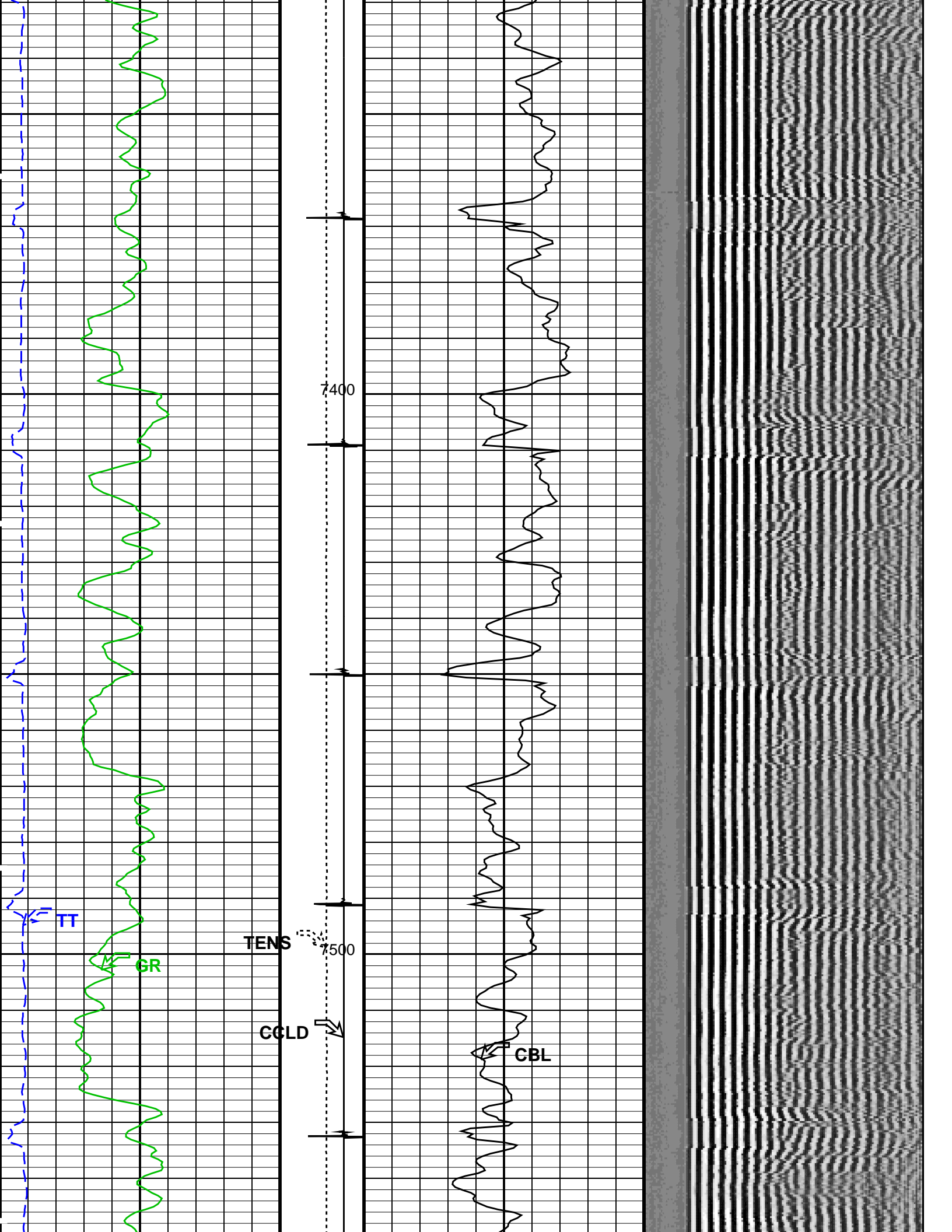


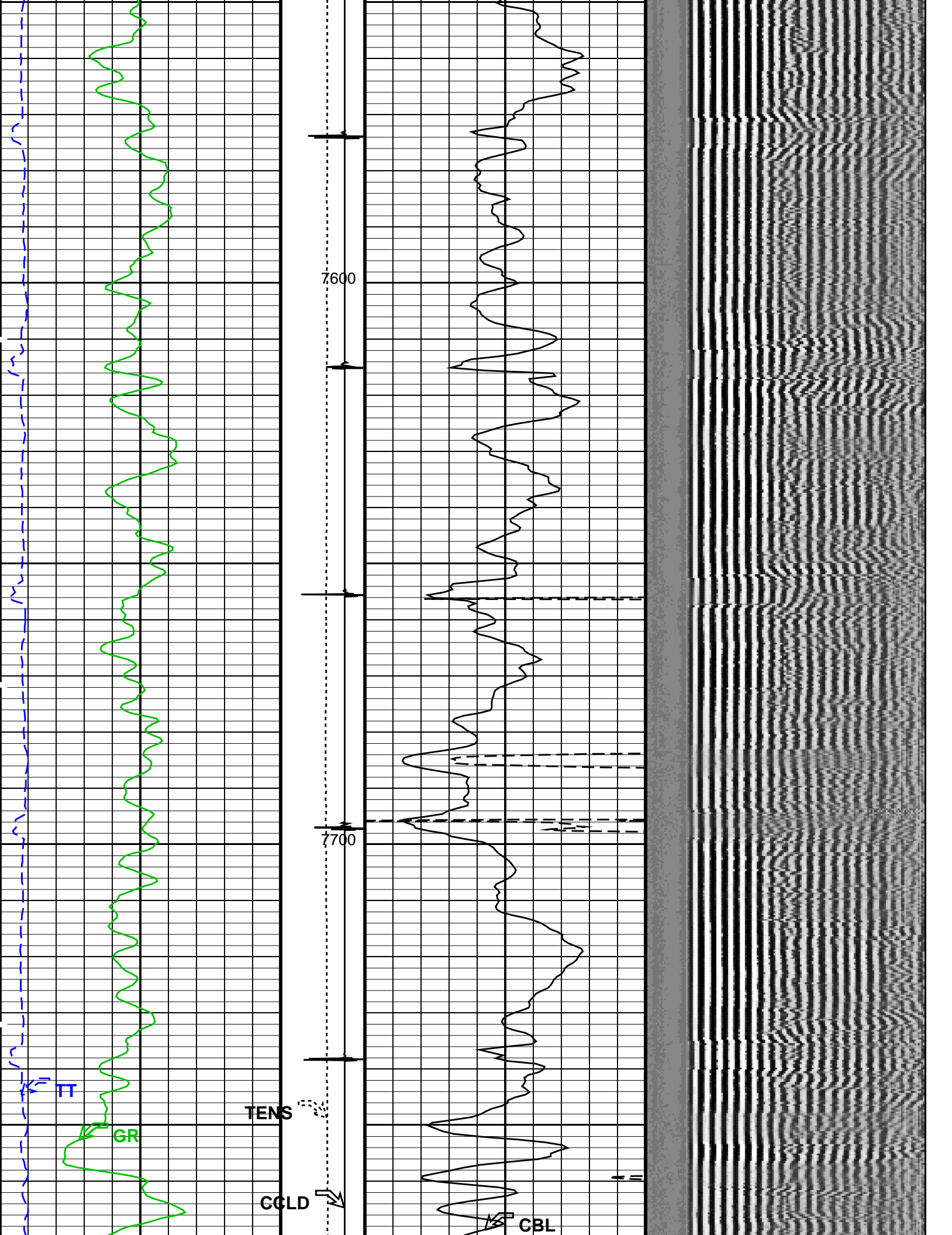


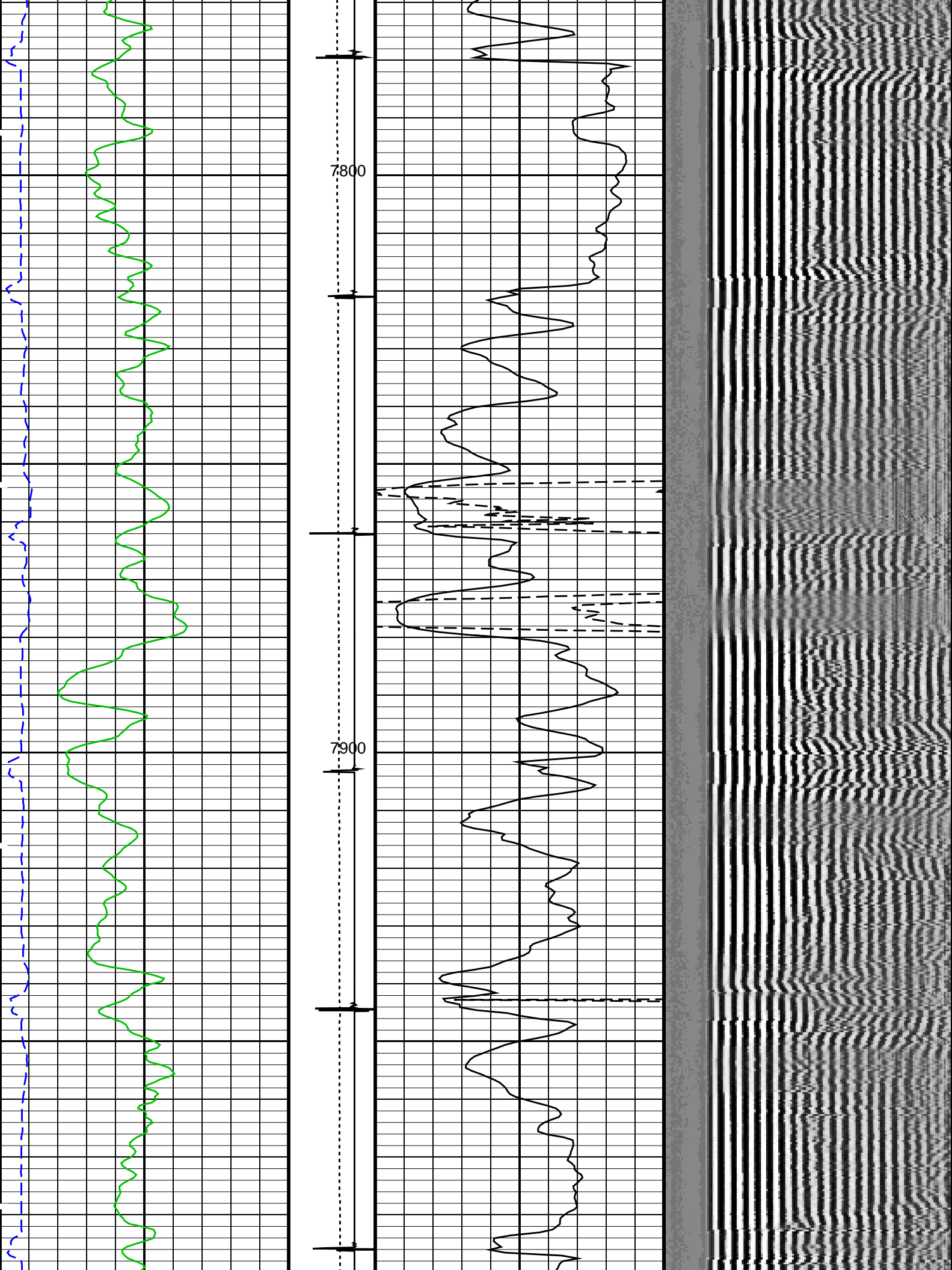




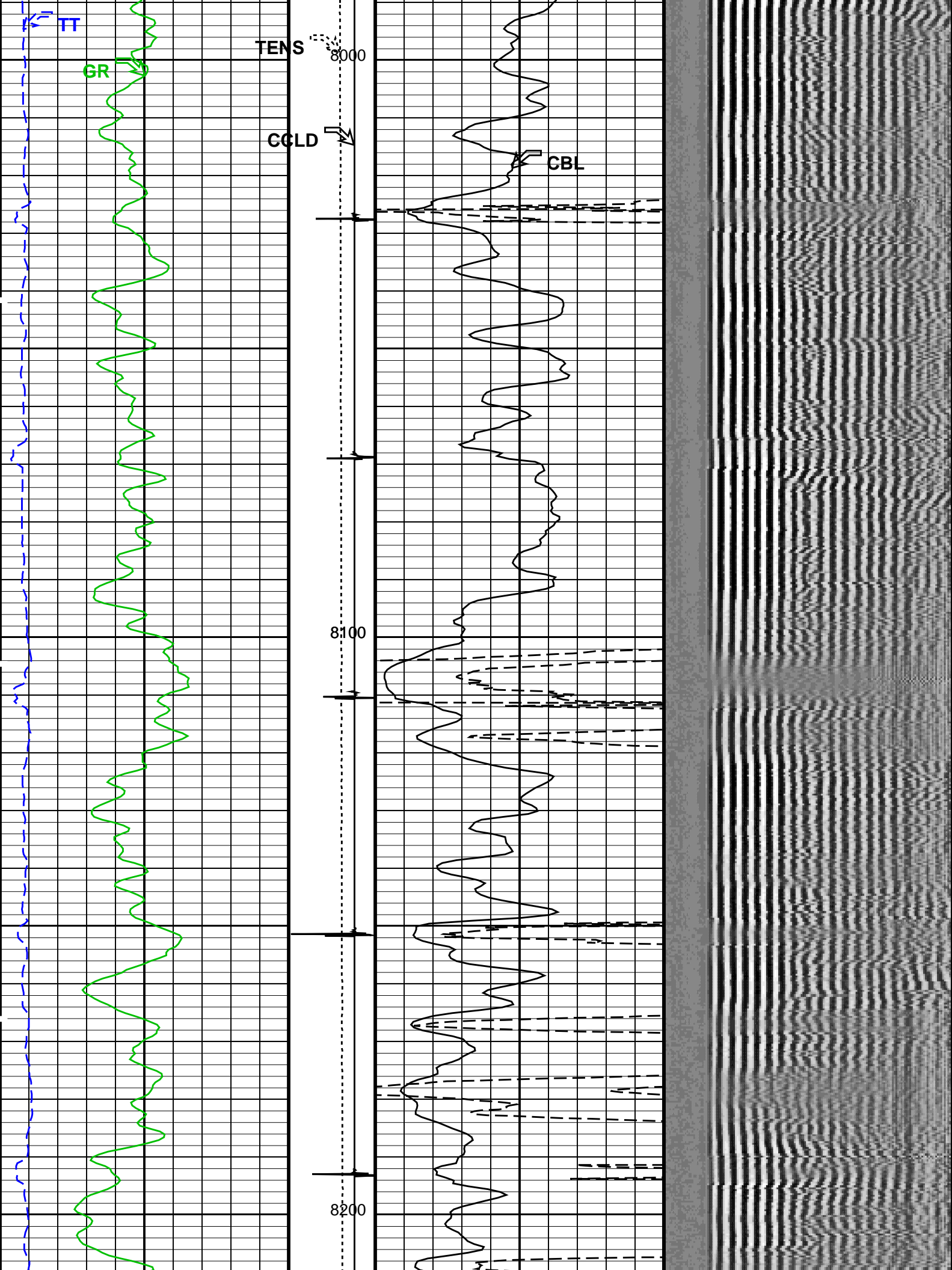


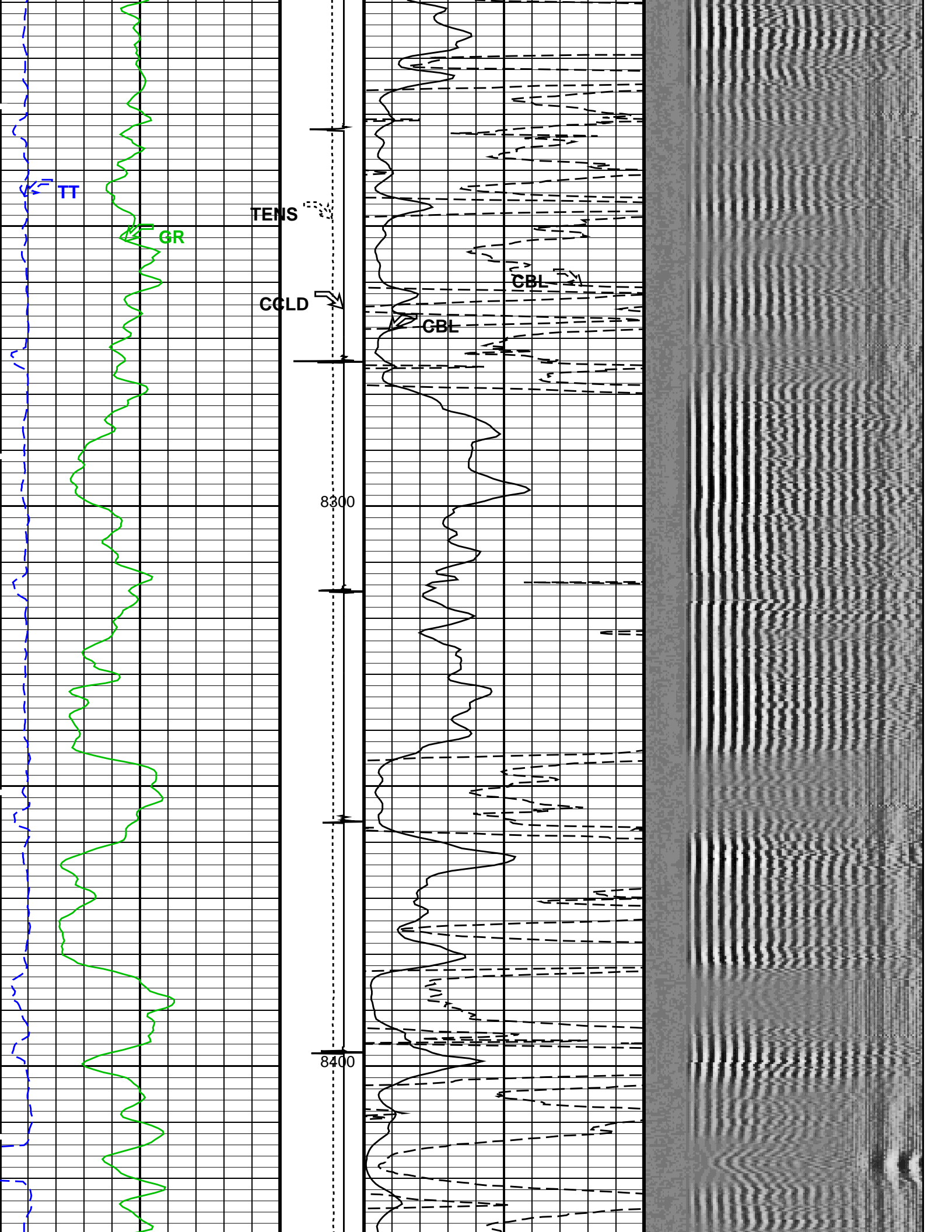




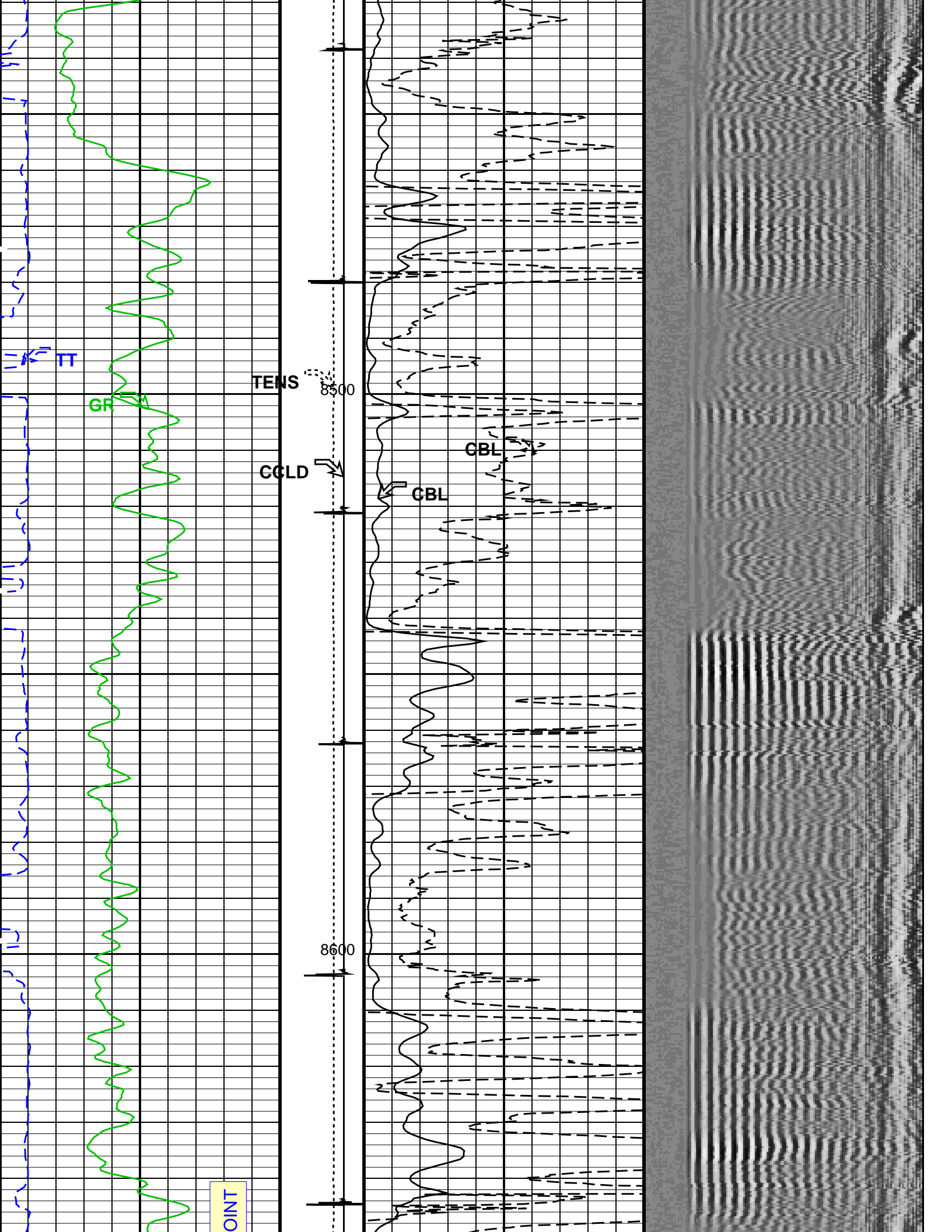


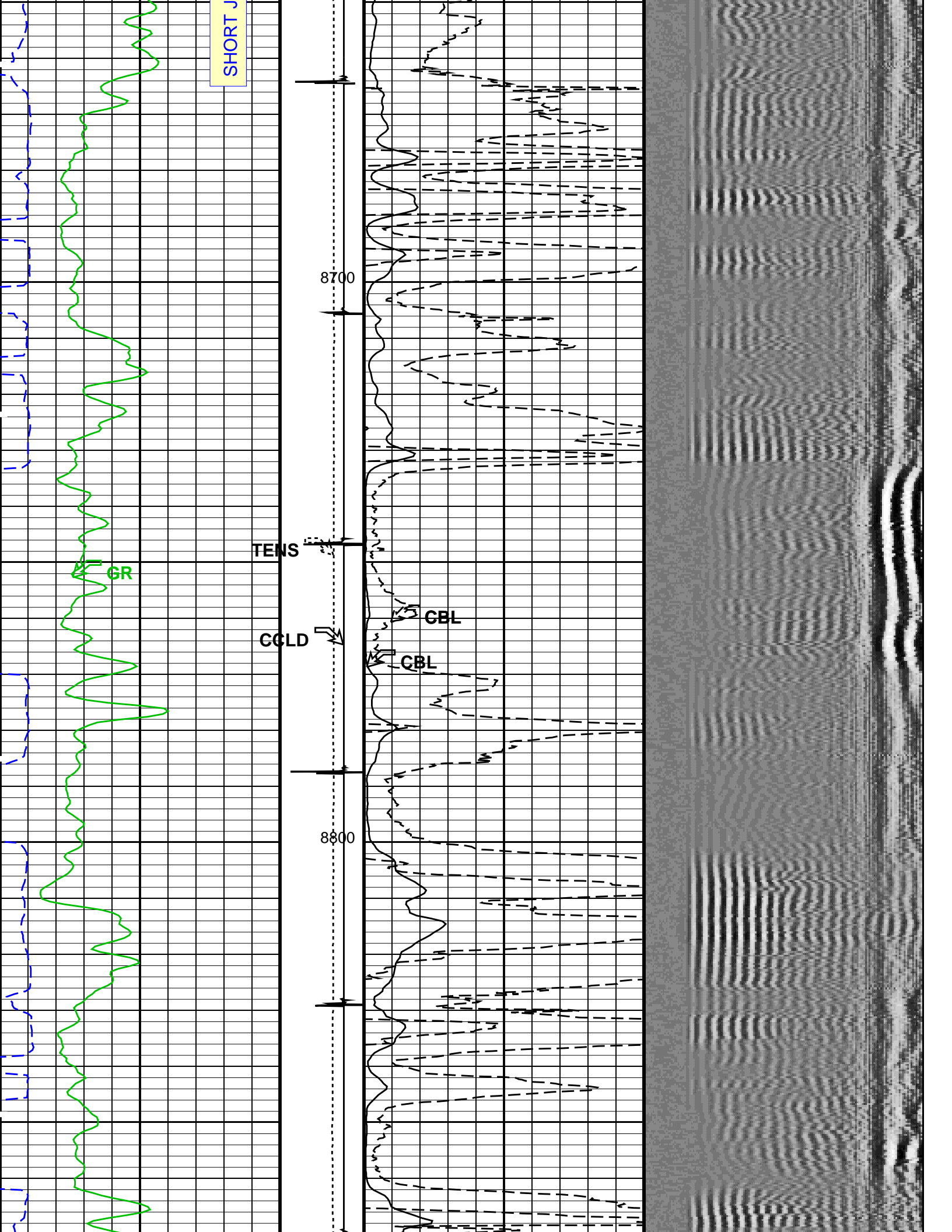


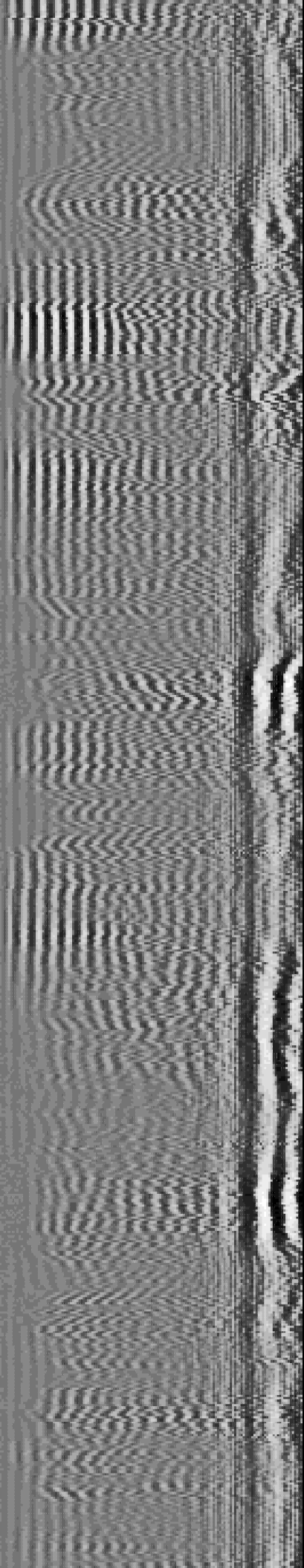
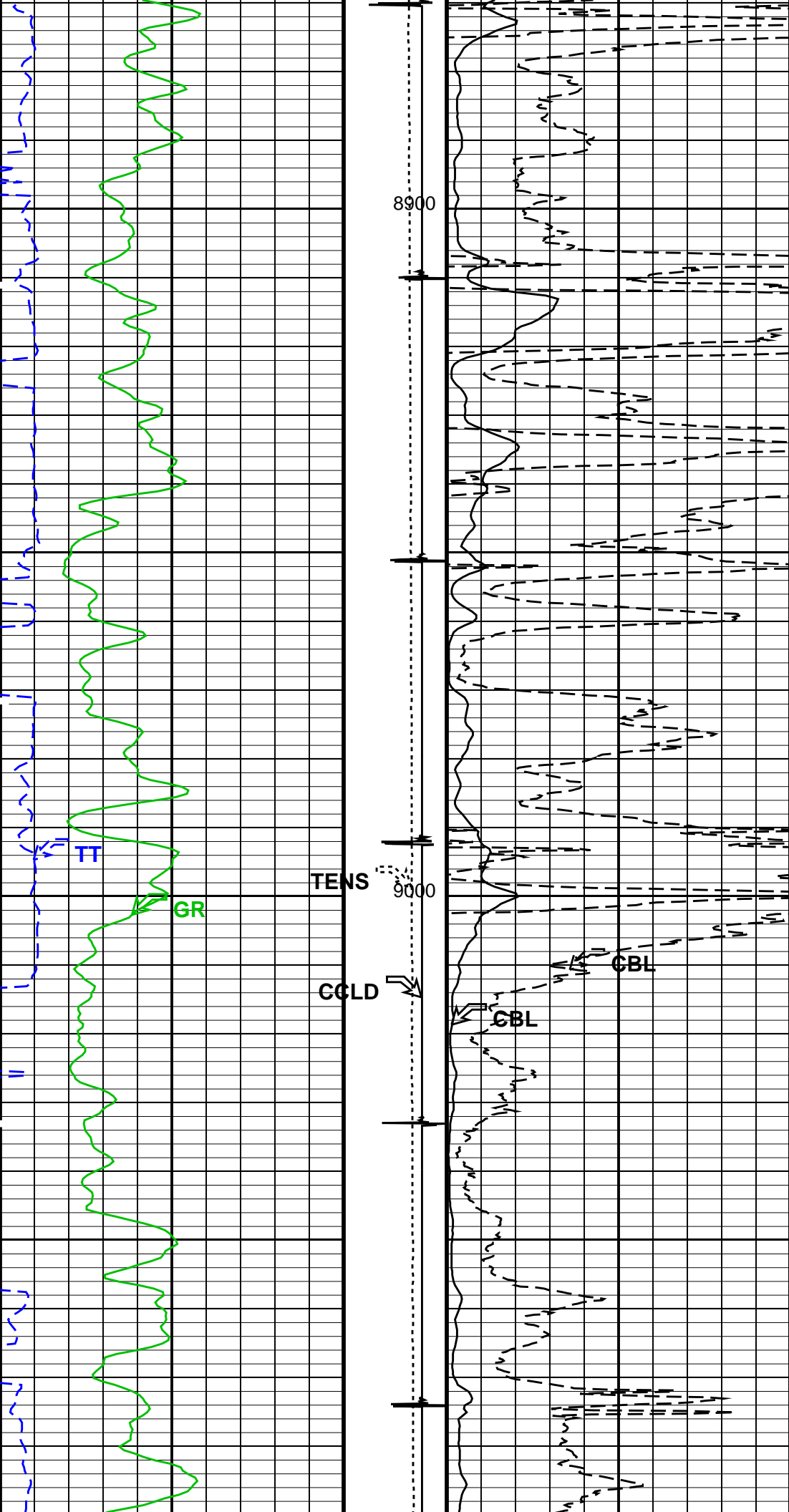


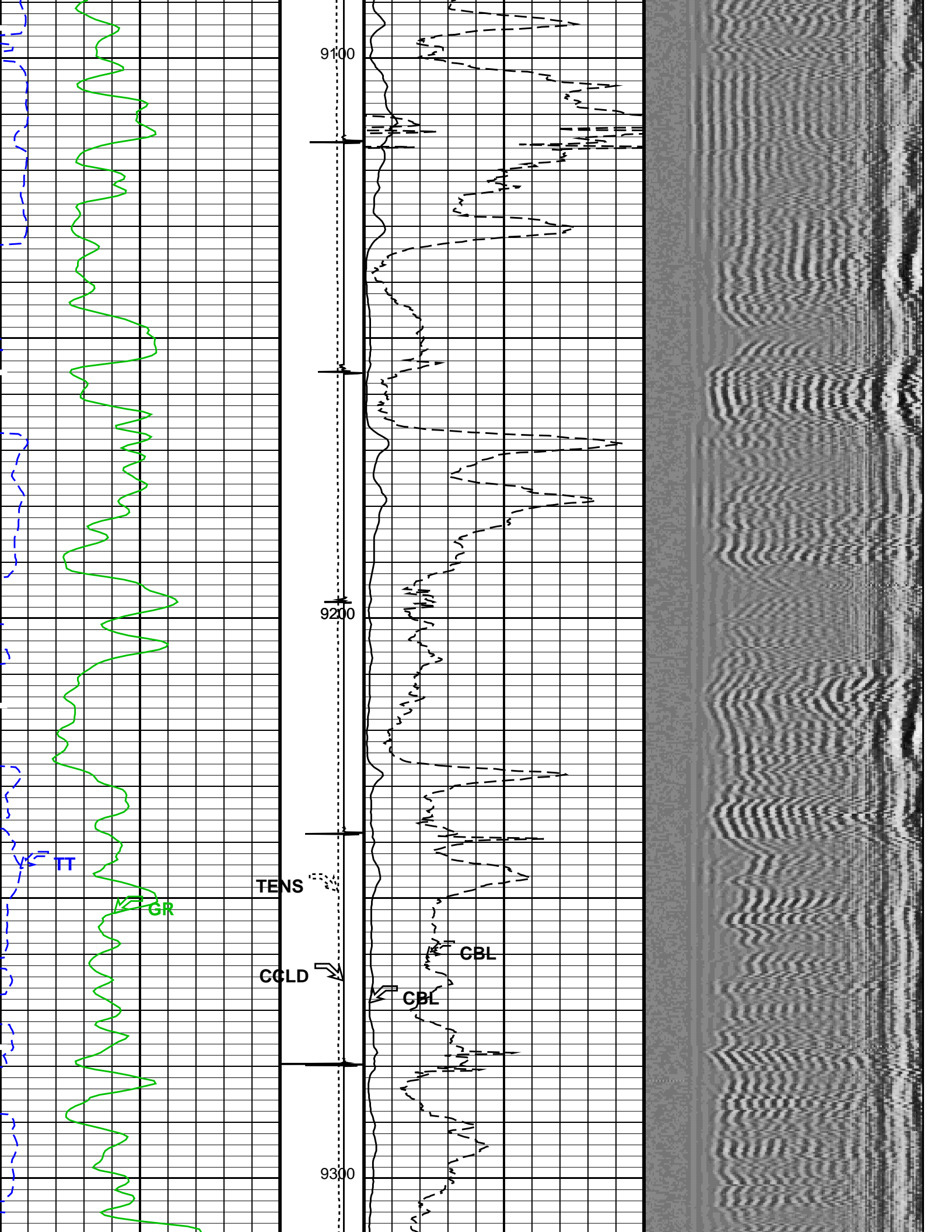




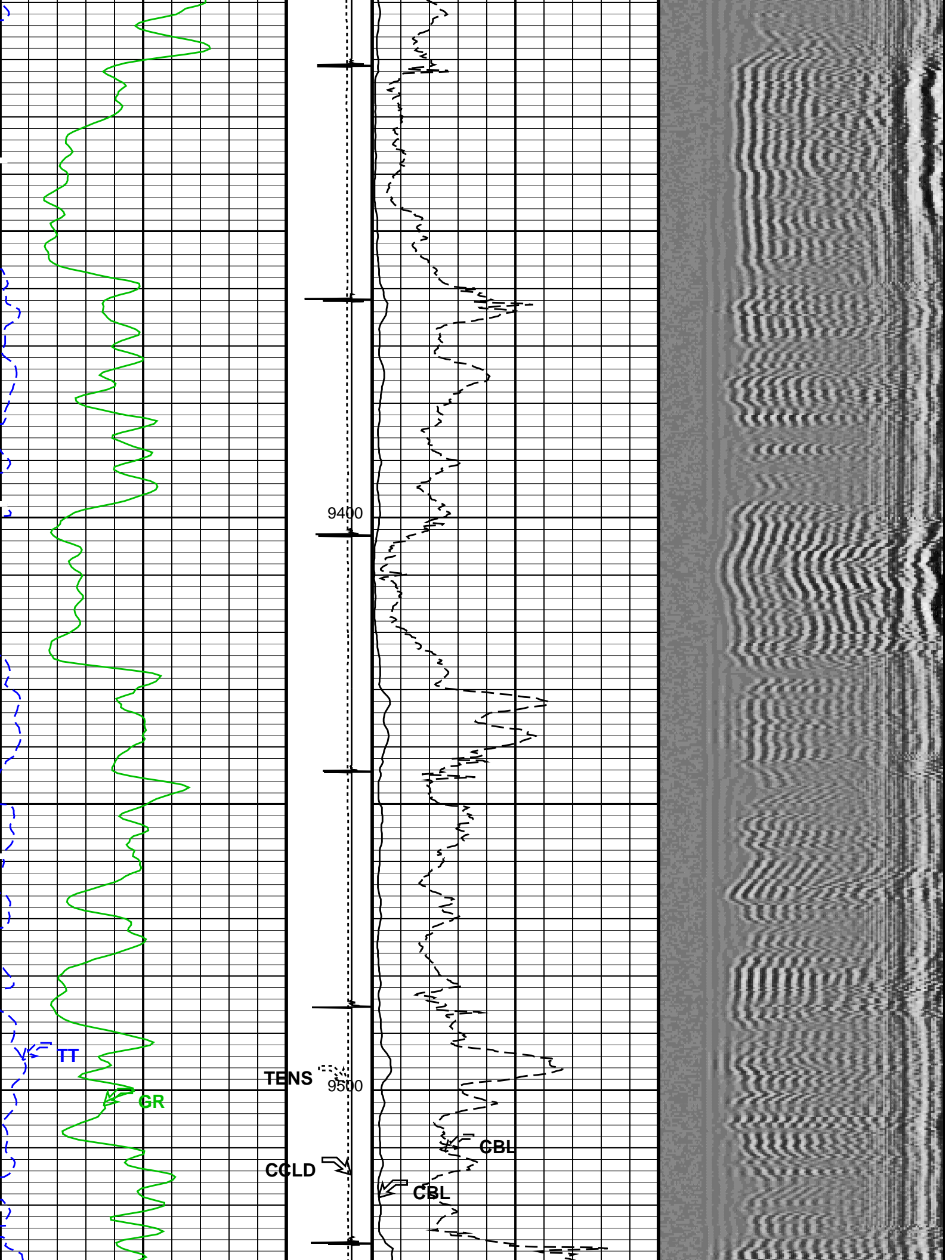




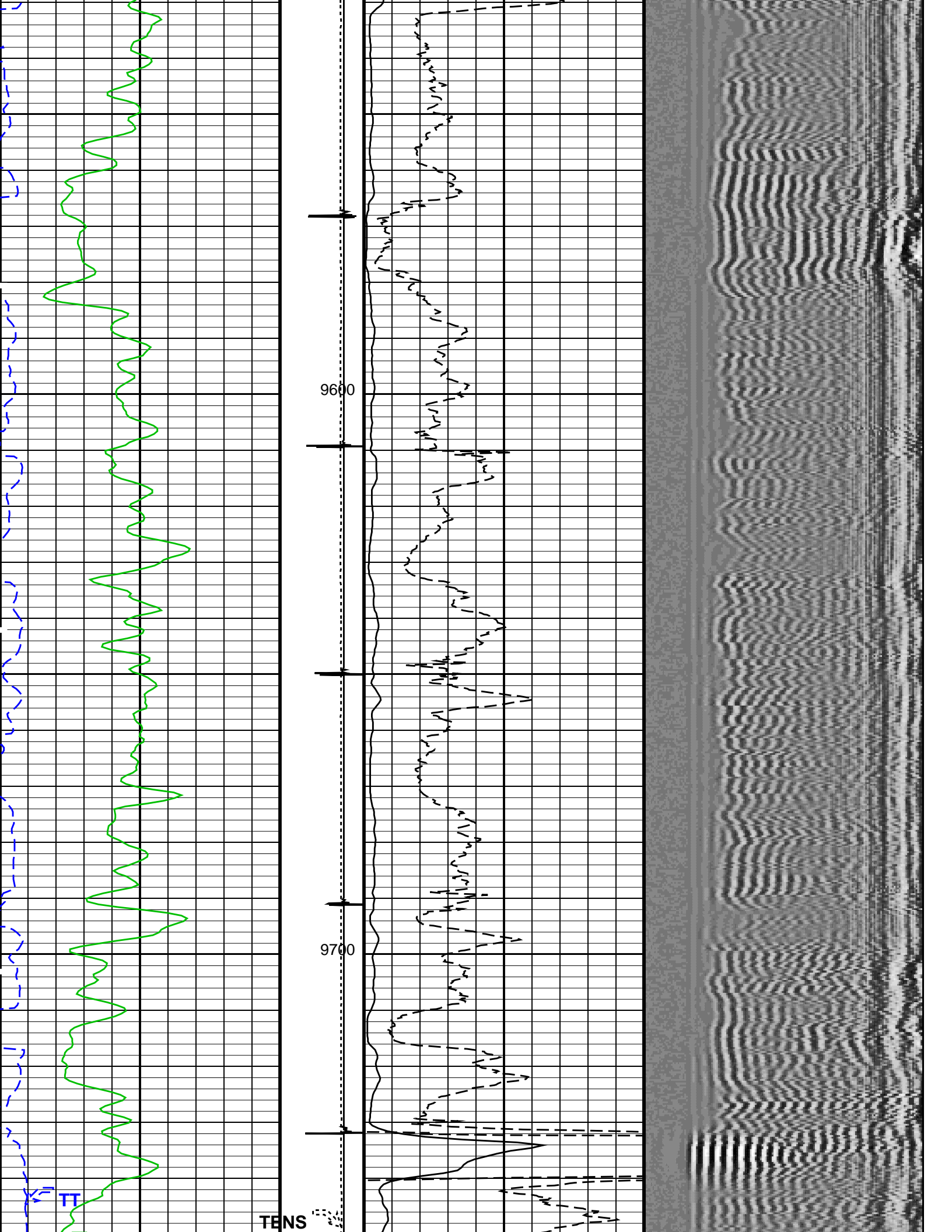


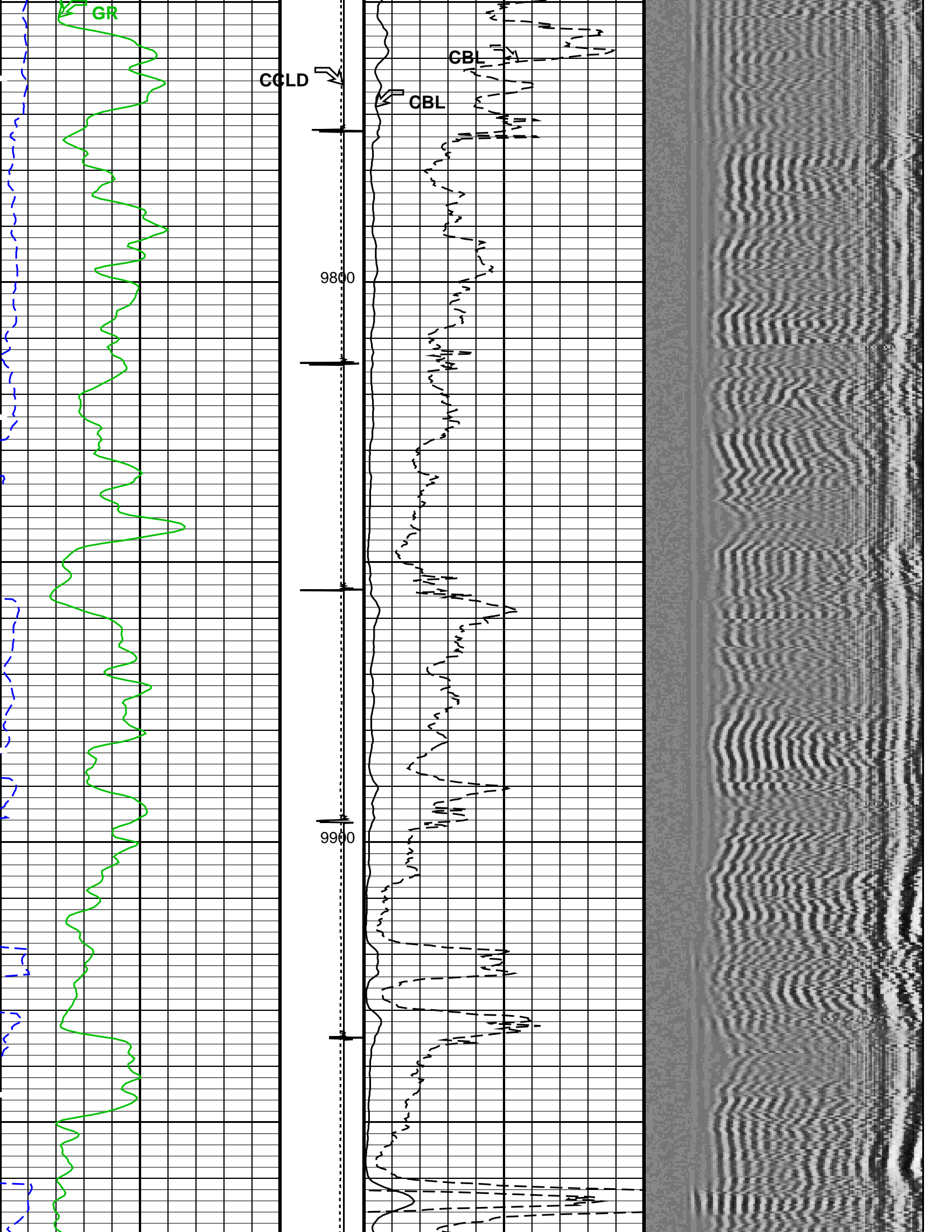


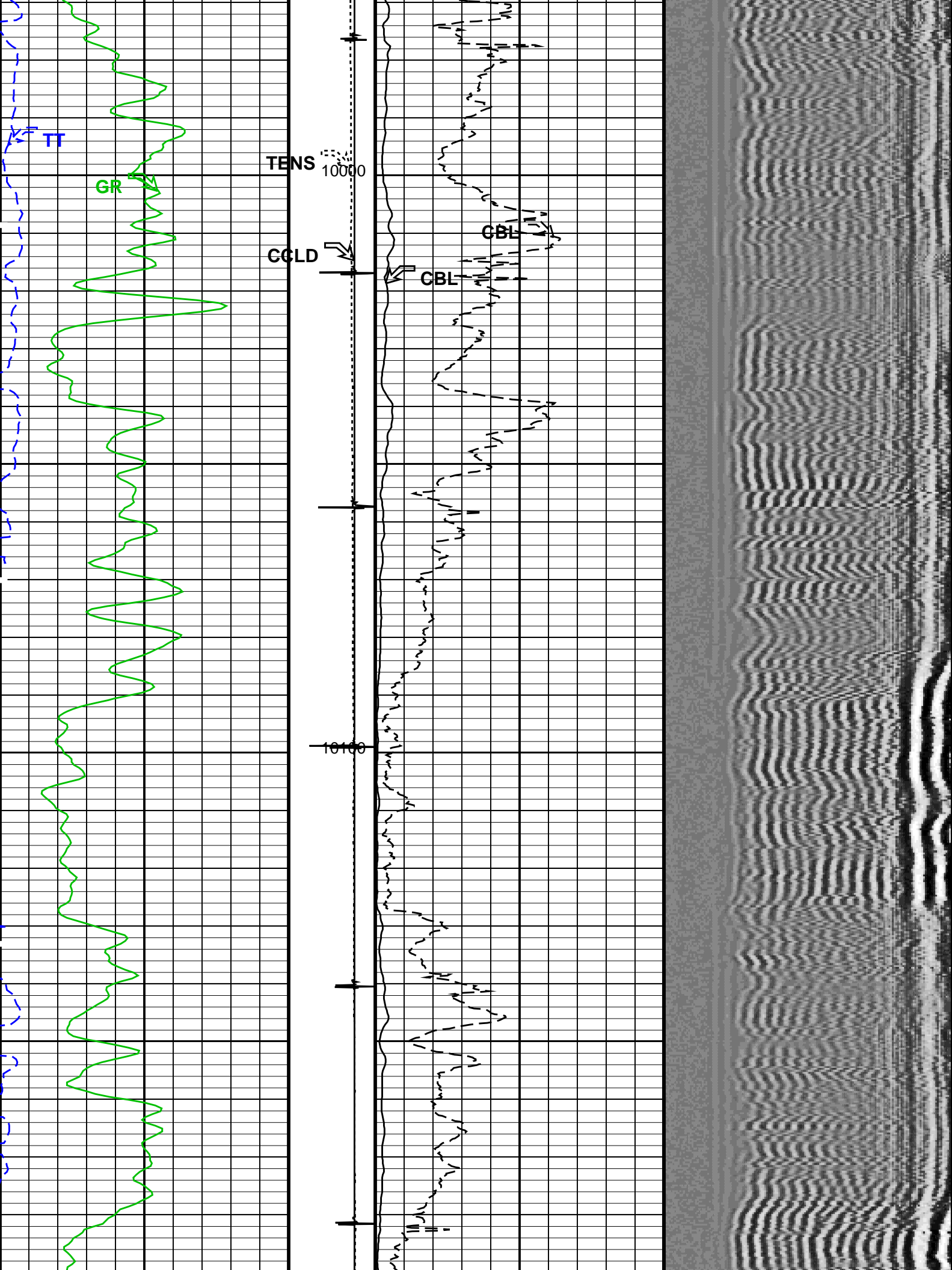


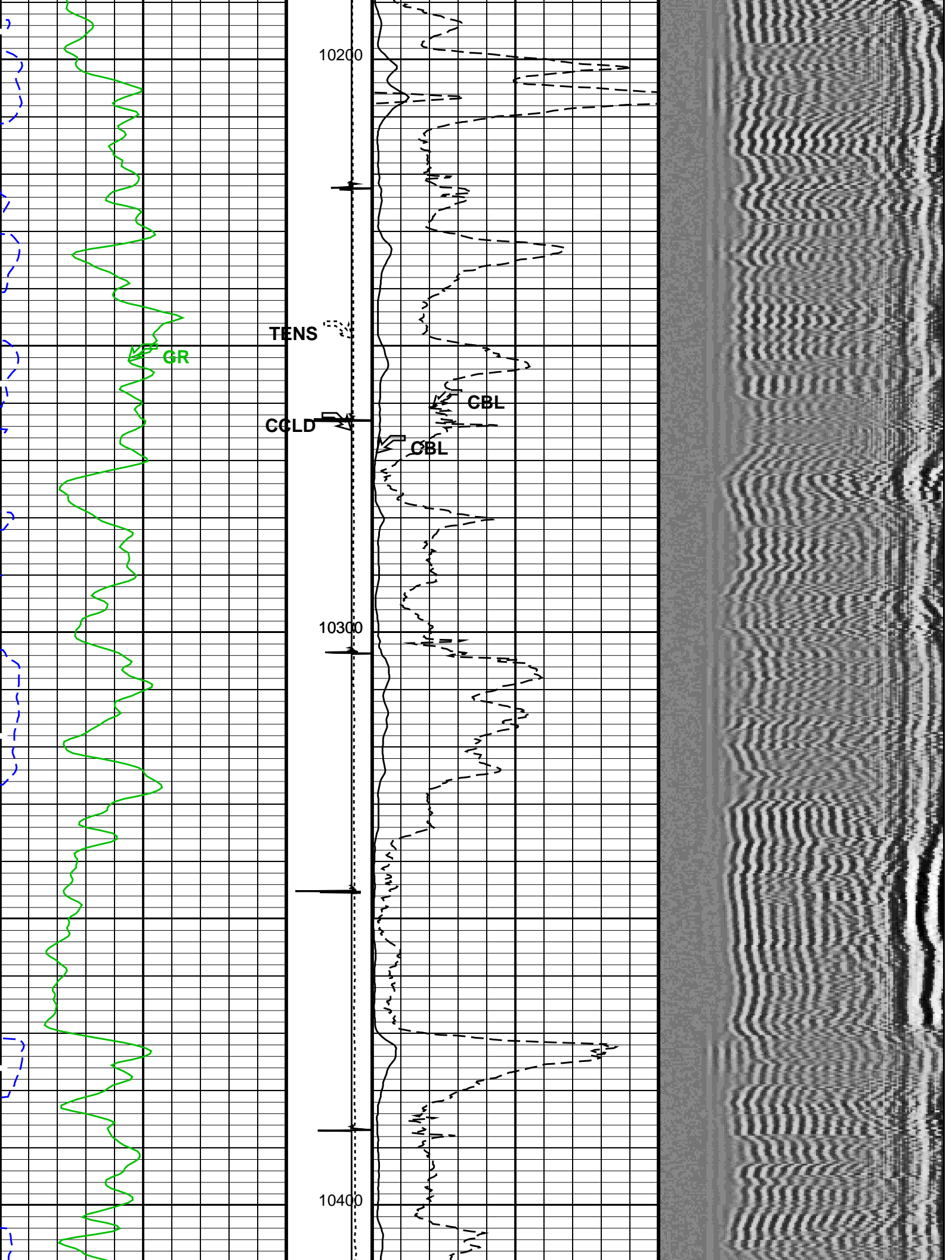




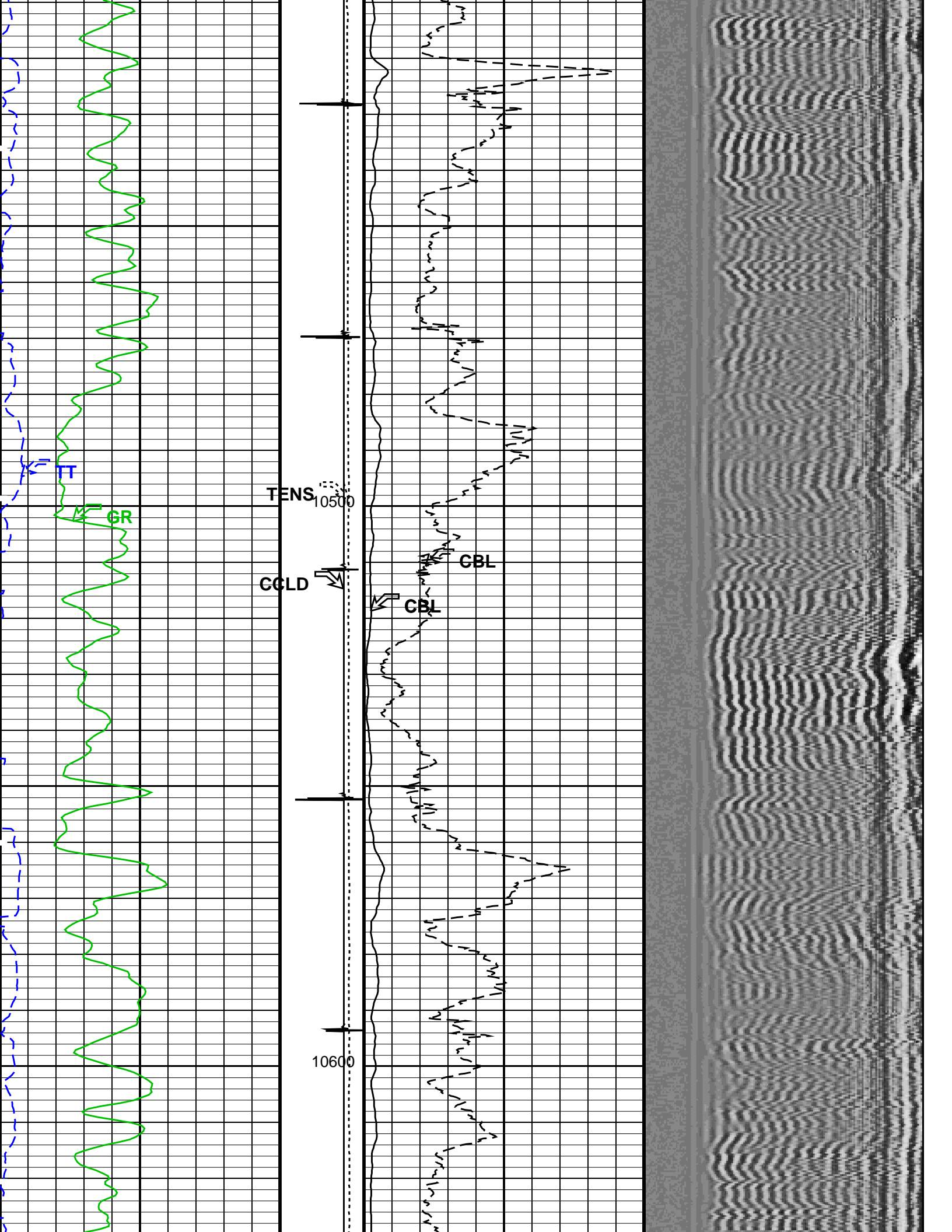




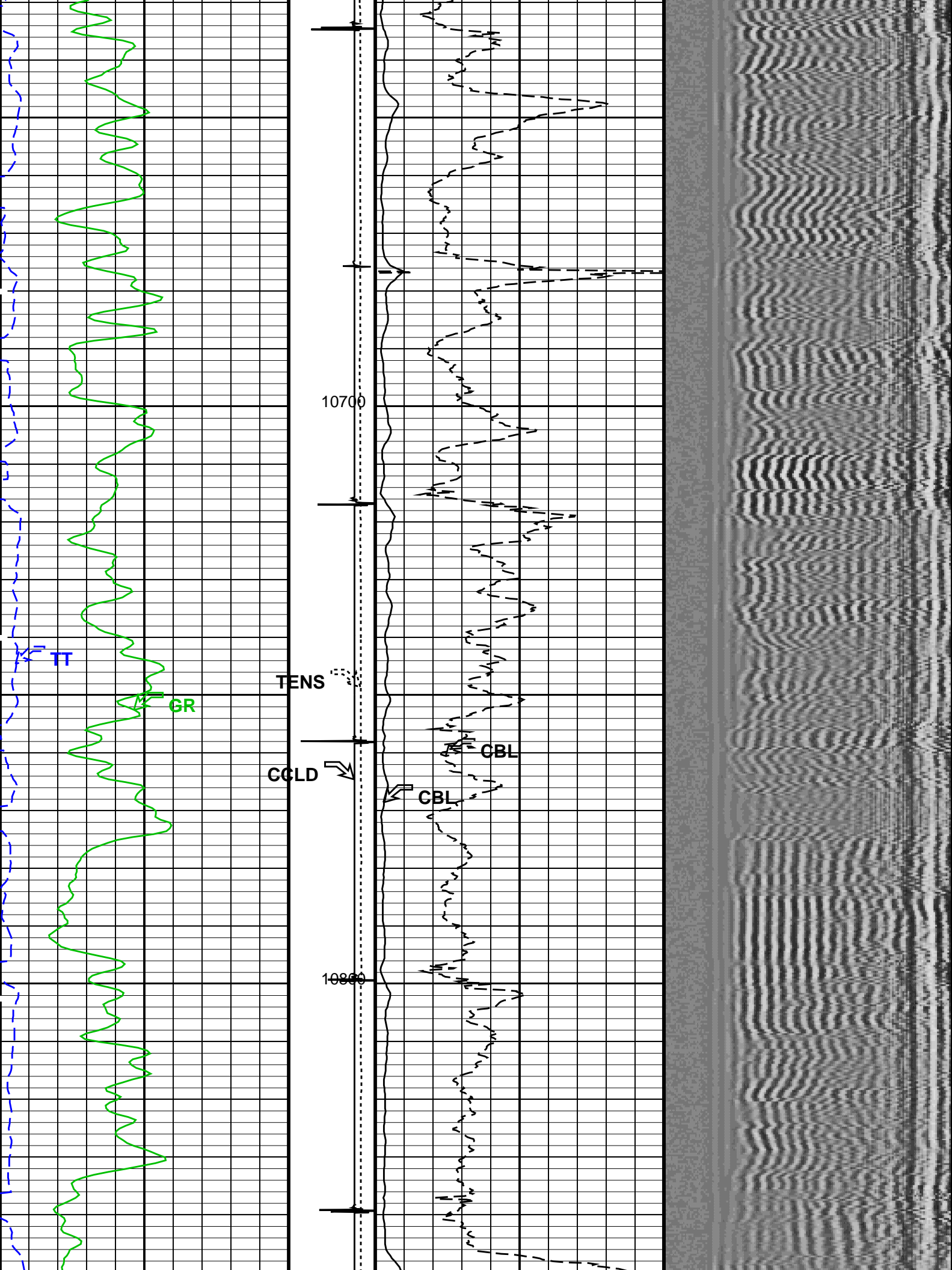


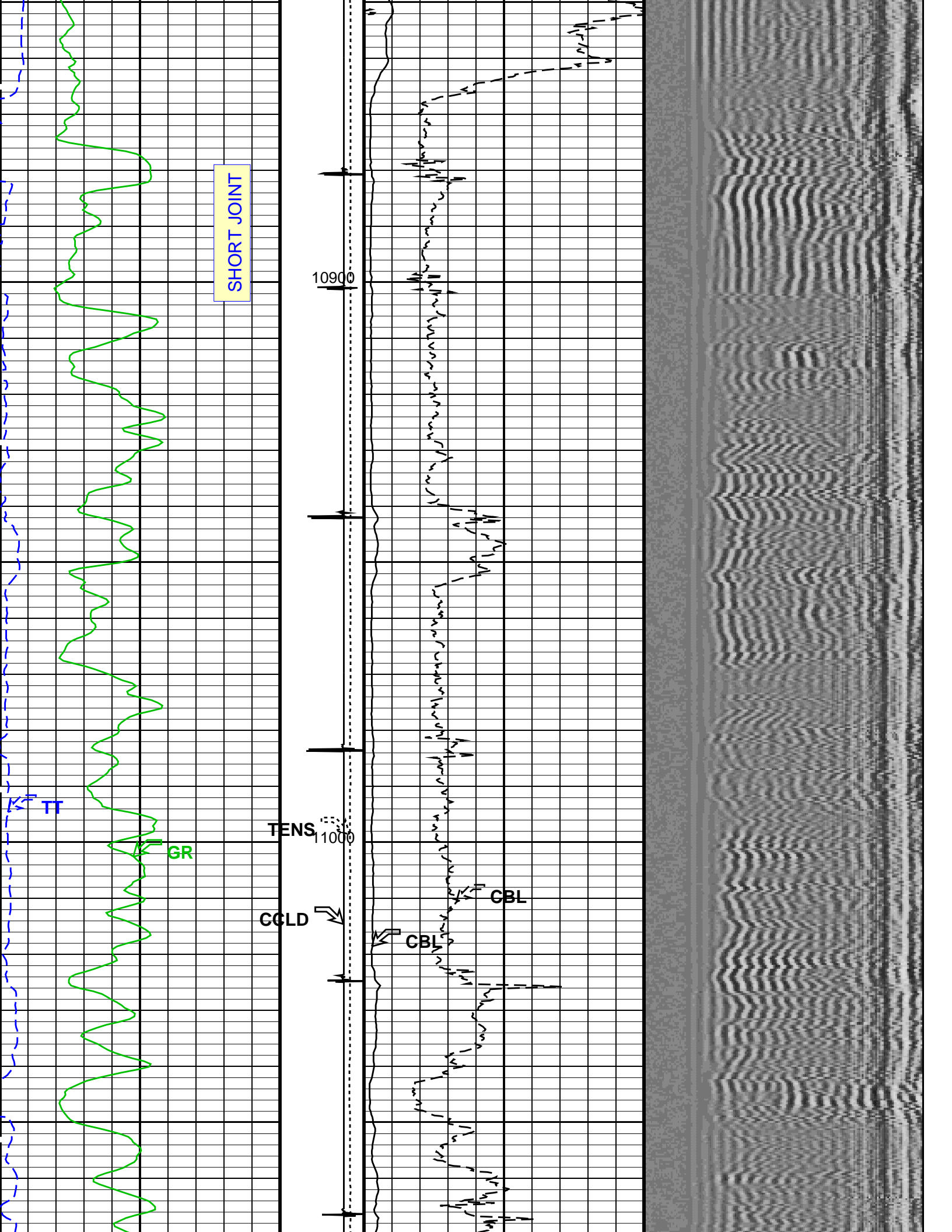


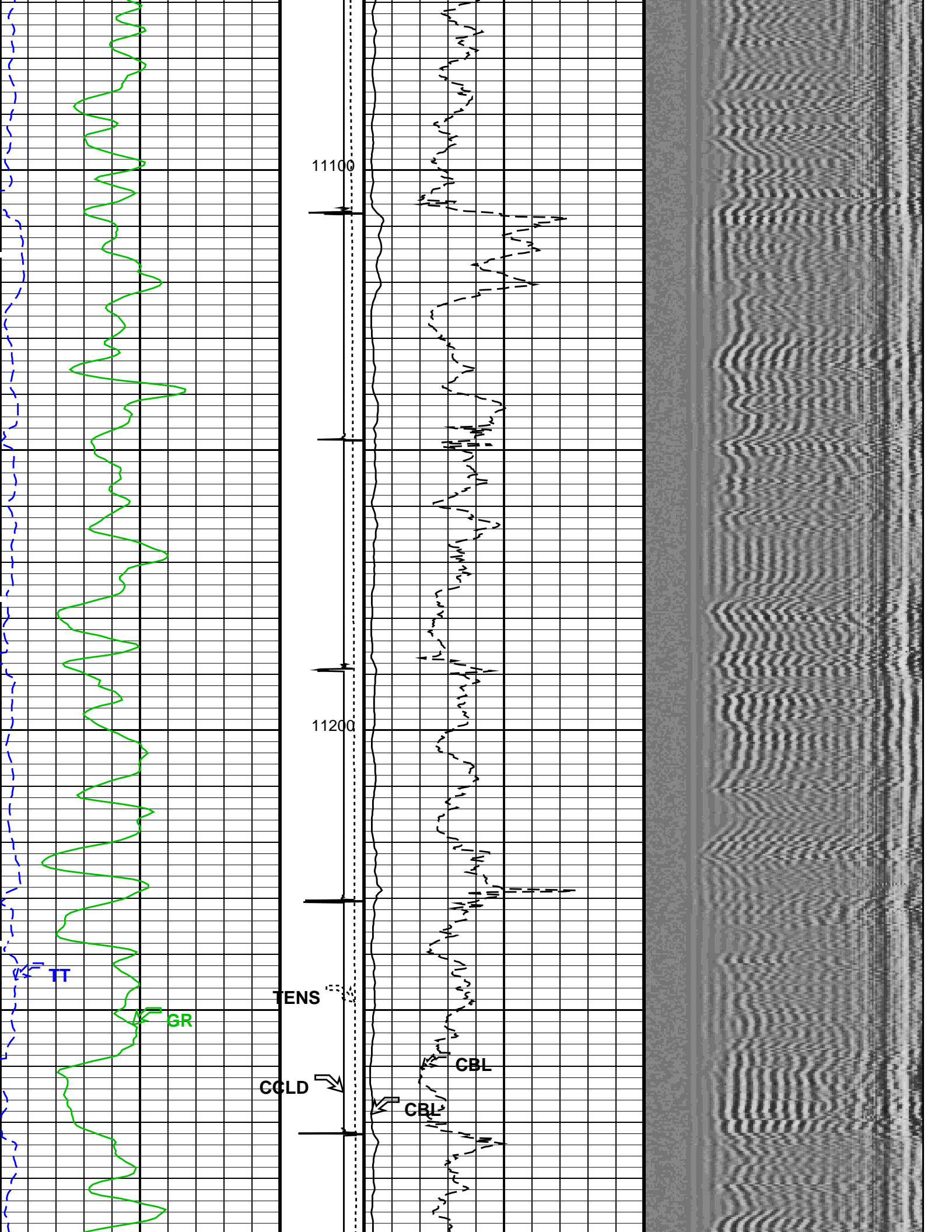


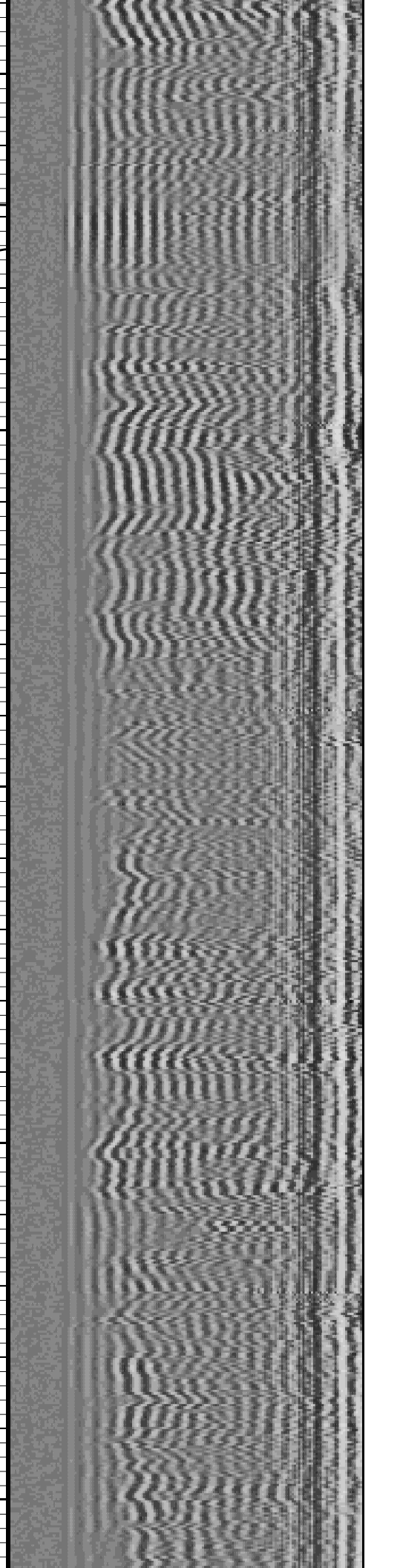
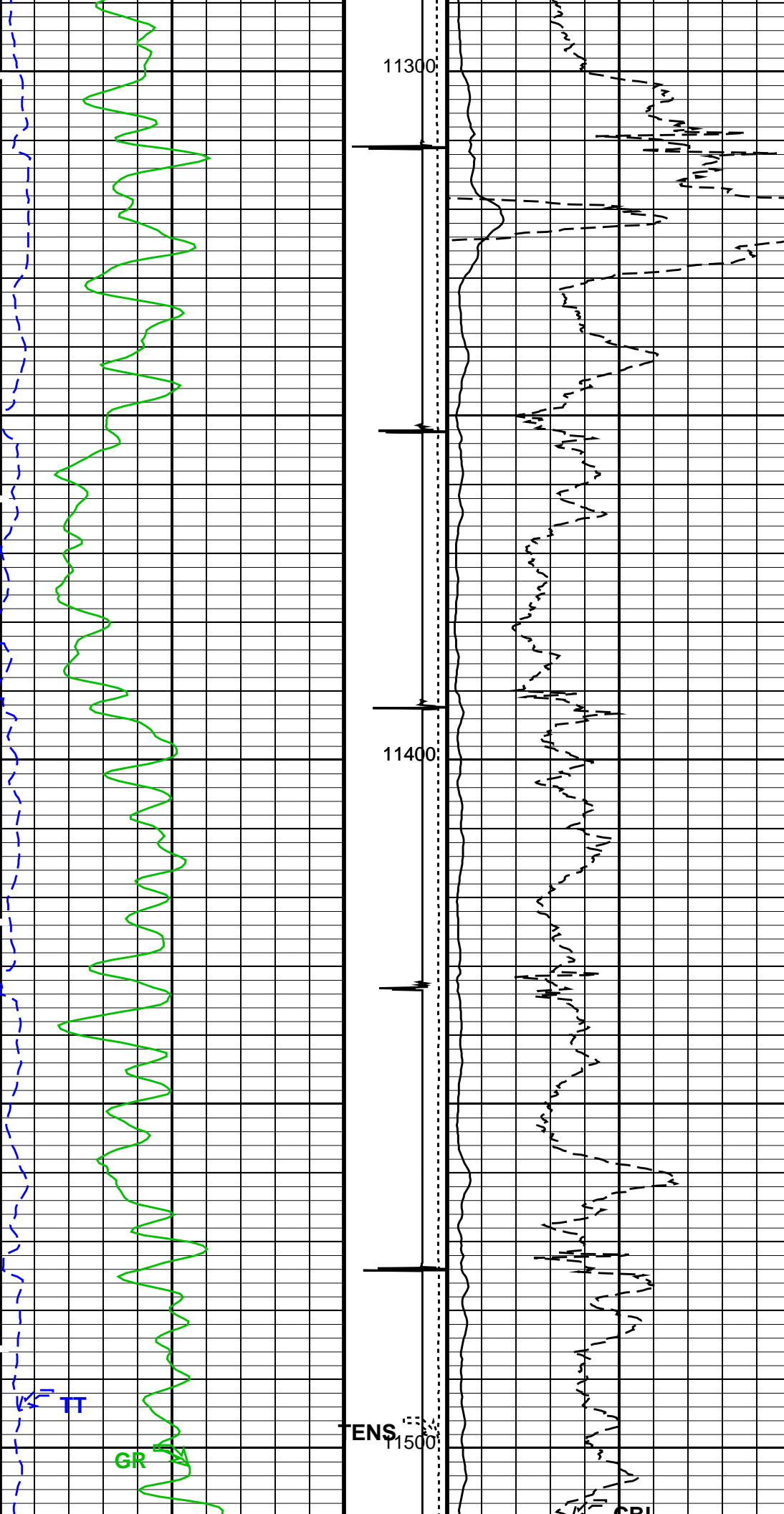




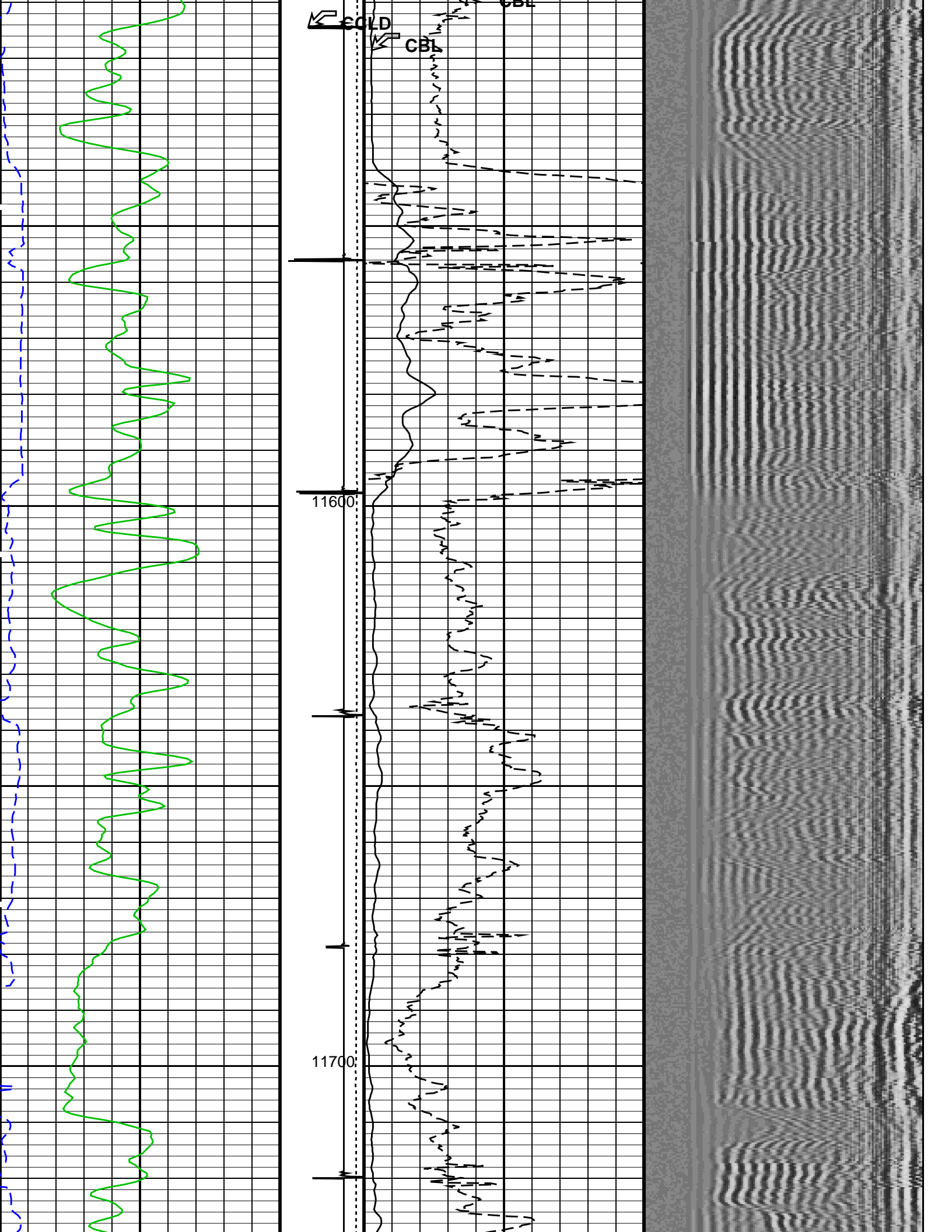




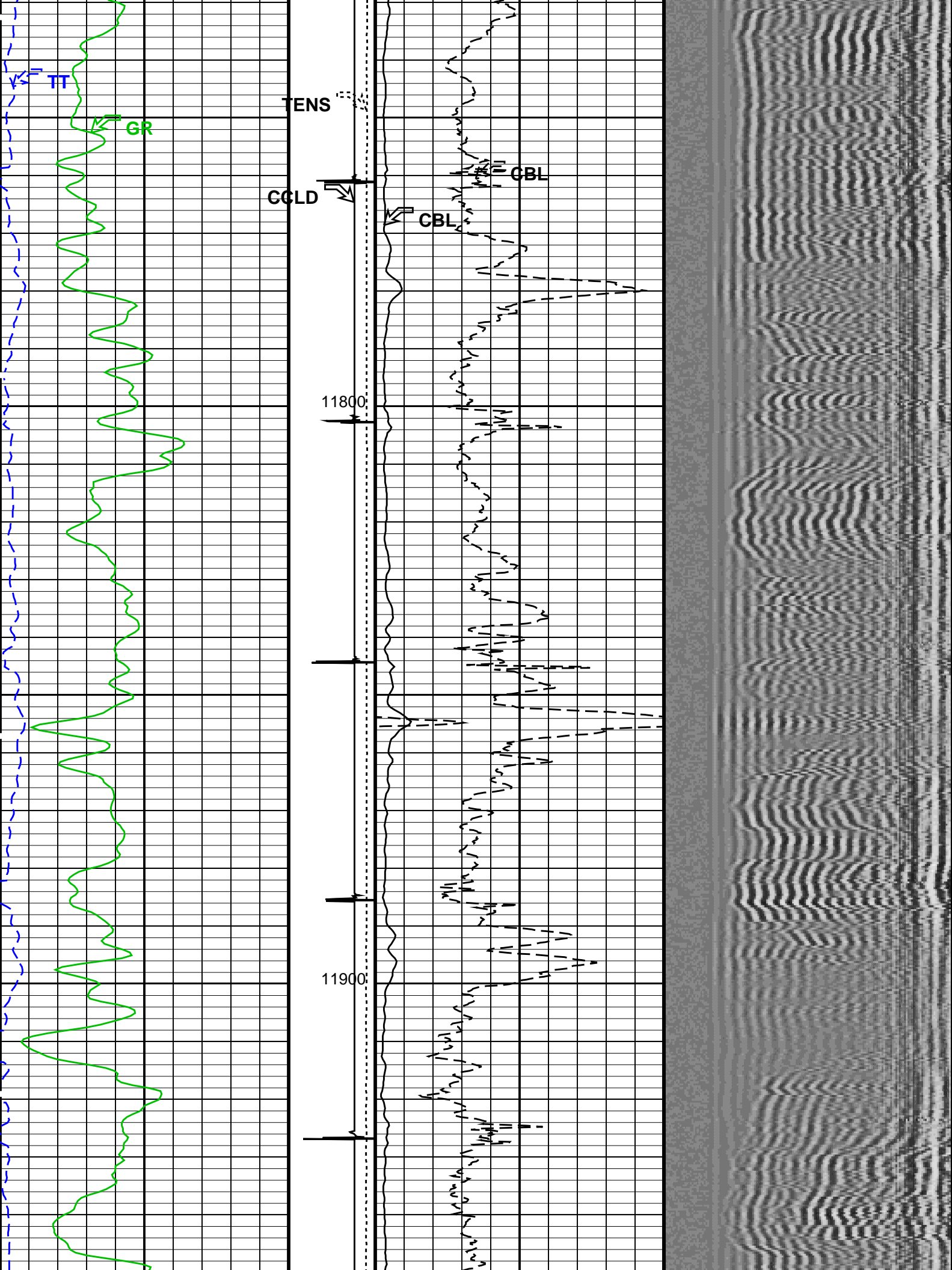


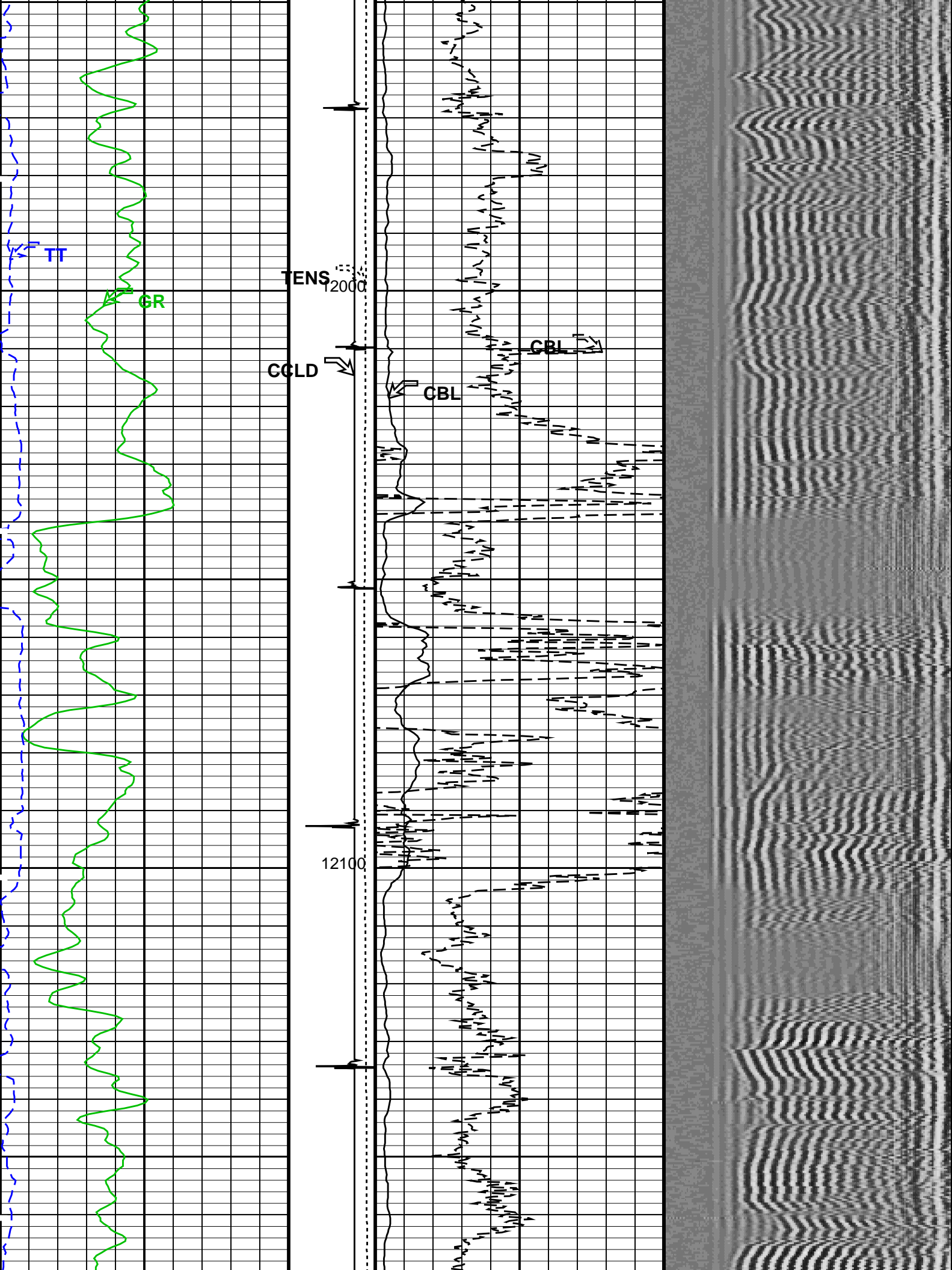














MAP 2 Correction Factor	0.192039
MAP 3 Correction Factor	0.132977
MAP 4 Correction Factor	0.175062
MAP 5 Correction Factor	0.161562
MAP 6 Correction Factor	0.177685
MAP 7 Correction Factor	0.144065
MAP 8 Correction Factor	0.233552

## 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	228.424	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	342.424	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	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	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	1.53811	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	171.424	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	4.27504	MV
MSA	Minimum Sonic Amplitude	0.572744	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	14.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	12236	FT

## Input DLIS Files

DEFAULT SCMT\_RST\_HBMS\_019LUP FN:18 PRODUCER 03-May-2011 17:50 12256.0 FT 109.5 FT

## Output DLIS Files

DEFAULT SCMT\_RST\_HBMS\_022PUP FN:21 PRODUCER 03-May-2011 21:00

**Schlumberger**

**REPEAT ANALYSIS**

MAXIS Field Log



# Input DLIS Files

DEFAULT	SCMT_RST_HBMS_019LUP	FN:18	PRODUCER	03-May-2011 17:50	12256.0 FT	109.5 FT
DEFAULT	SCMT_RST_HBMS_018PUP	FN:17	PRODUCER	03-May-2011 17:44	8812.5 FT	8406.5 FT

# Output DLIS Files

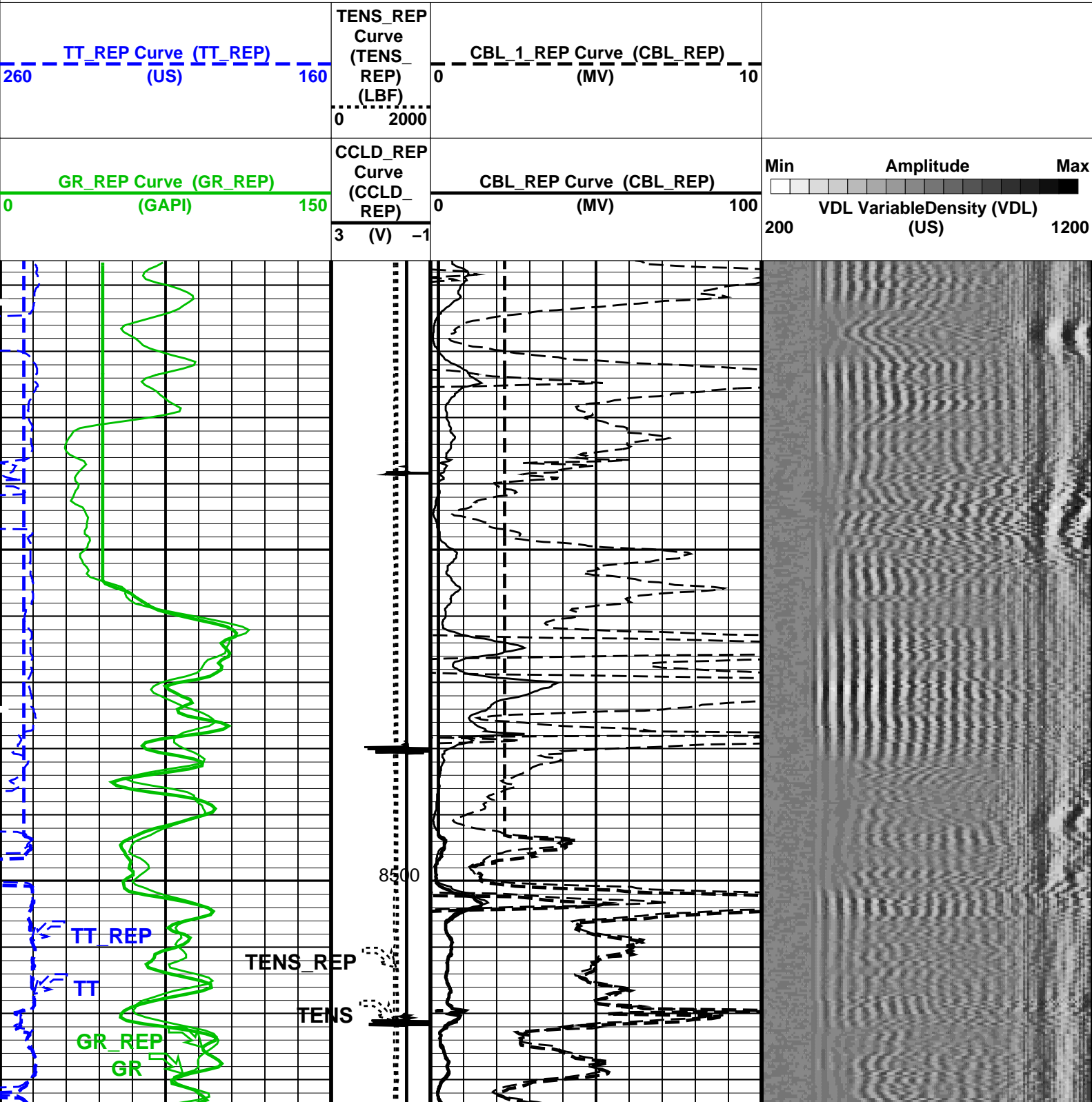
DEFAULT	SCMT_RST_HBMS_022PUP	FN:21	PRODUCER	03-May-2011 21:00
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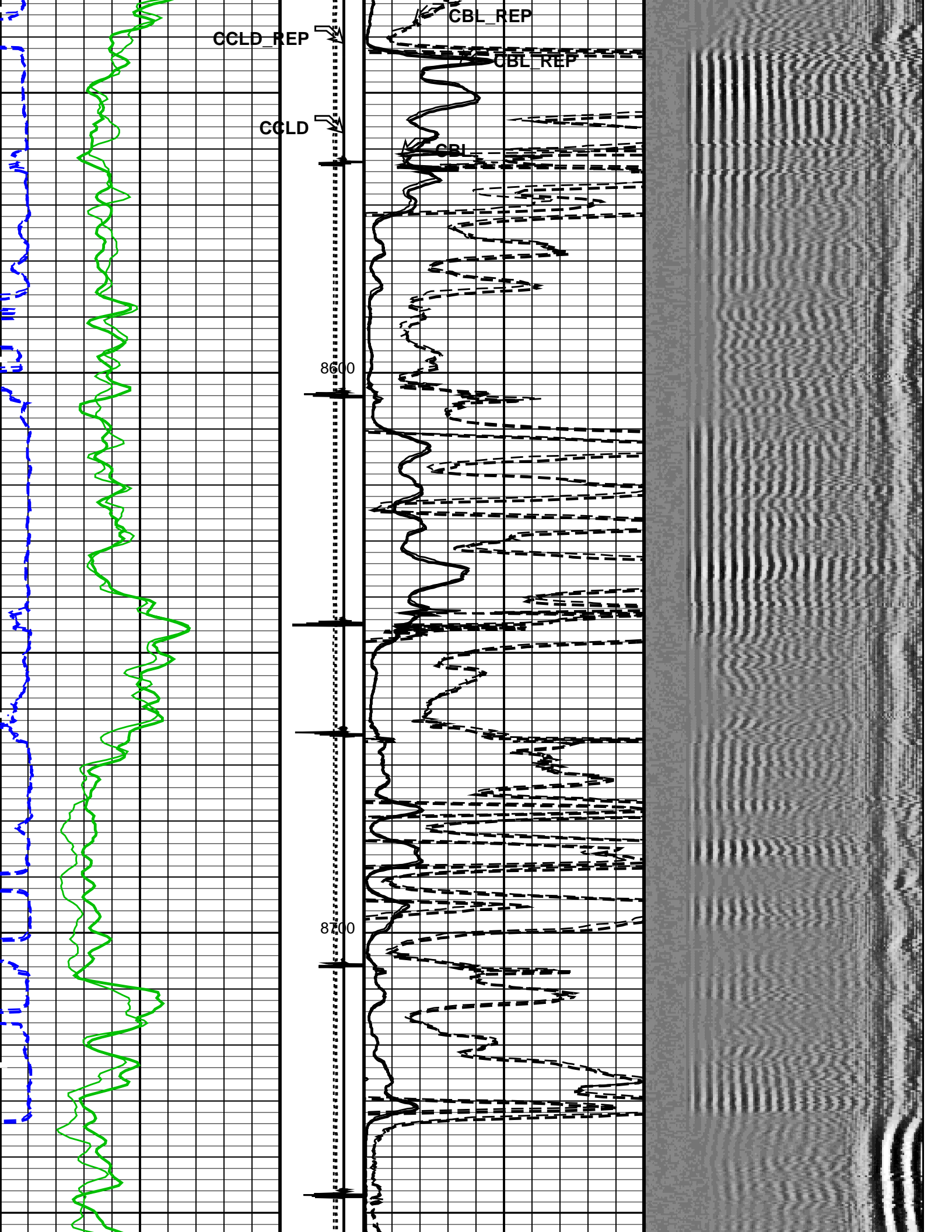
## OP System Version: 18C0-147

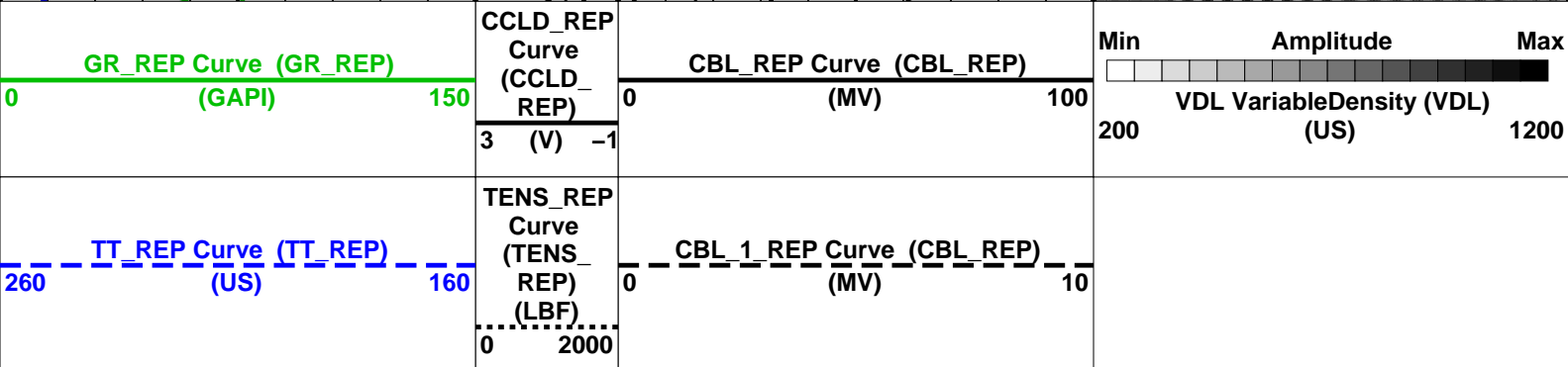
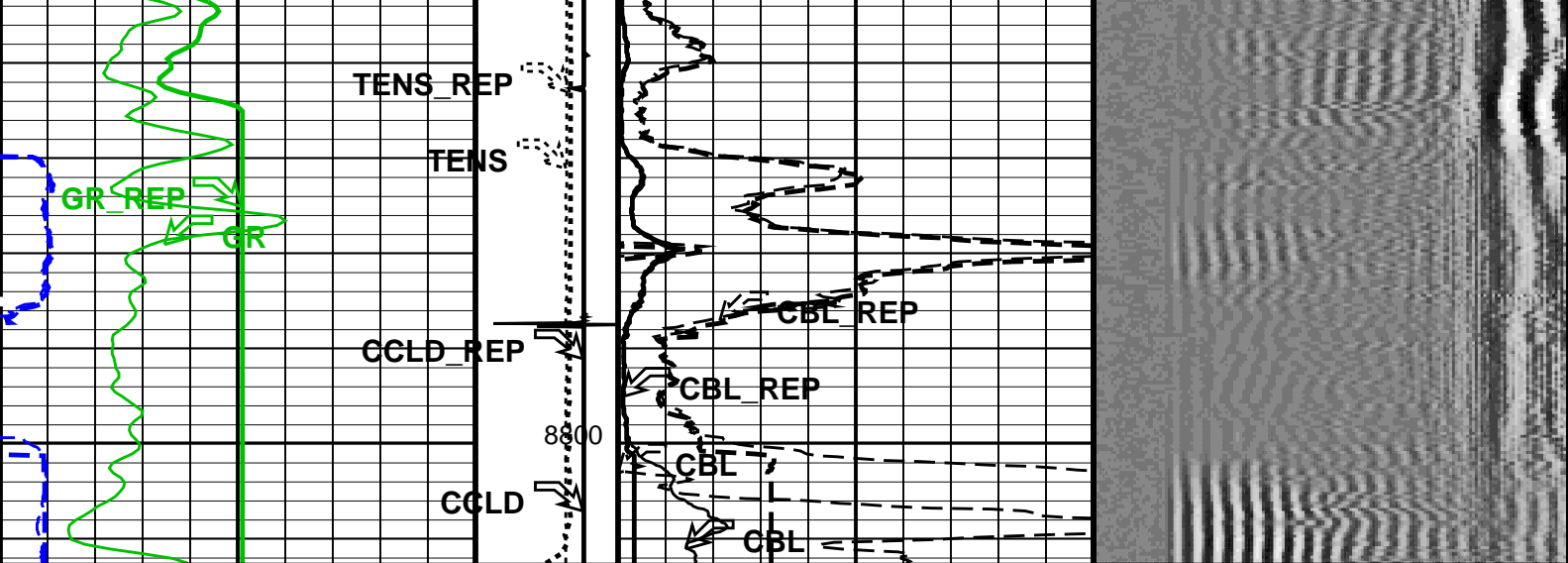
SCMT-CB	18C0-147	RST-C	18C0-147
HBMS-B	18C0-147		

### PIP SUMMARY

Time Mark Every 60 S







#### PIP SUMMARY

Time Mark Every 60 S

Format: CBL\_VDL\_REP Vertical Scale: 5" per 100'

Graphics File Created: 03-May-2011 21:00

### OP System Version: 18C0-147

SCMT-CB	18C0-147	RST-C	18C0-147
HBMS-B	18C0-147		

#### <<<SCMT Cement Evaluation Information Summary>>>

<b>Sonde Serial Number</b>	SCMS-CB 8303		
<b>Current Casing Size</b>	4.50000 IN		
<b>Casing Weight</b>	11.6000 LB/F		
<b>Expected CBL Amplitude in Free Pipe Section</b>	80 MV	<b>Minimum Sonic Amplitude</b>	0.572744 MV (100% Cement) 1.53811 MV (80% Cement)
		<b>MAP Minimum Sonic Amplitude</b>	4.27504 MV (100% Cement) 8.03067 MV (80% Cement)
<b>Master Calibration (Normalization)</b>		<b>Before Calibration (Adjustment)</b>	
<b>Date of Master Calibration</b>	17-JAN-2011	<b>CBL Adjustment Factor (CBAF)</b>	1.0
<b>CBL Correction Factor</b>	0.0743637	<b>MAP Adjustment Factor (MPAF)</b>	1.0
<b>MAP 1 Correction Factor</b>	0.165722		
<b>MAP 2 Correction Factor</b>	0.192039		
<b>MAP 3 Correction Factor</b>	0.132977		
<b>MAP 4 Correction Factor</b>	0.175062		
<b>MAP 5 Correction Factor</b>	0.161562		
<b>MAP 6 Correction Factor</b>	0.177685		
<b>MAP 7 Correction Factor</b>	0.144065		
<b>MAP 8 Correction Factor</b>	0.233552		

## 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	228.424	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	342.424	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	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	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	1.53811	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	171.424	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	4.27504	MV
MSA	Minimum Sonic Amplitude	0.572744	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	14.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	12236	FT

## Input DLIS Files

DEFAULT	SCMT_RST_HBMS_019LUP	FN:18	PRODUCER	03-May-2011 17:50	12256.0 FT	109.5 FT
DEFAULT	SCMT_RST_HBMS_018PUP	FN:17	PRODUCER	03-May-2011 17:44	8812.5 FT	8406.5 FT

## Output DLIS Files

DEFAULT	SCMT_RST_HBMS_022PUP	FN:21	PRODUCER	03-May-2011 21:00
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COEFFICIENTS

MAXIS Field Log

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



**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	+.200000000000e+04	+.173000000000e+04

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

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**PBMS RTD Well Thermometer**

Sonde Serial NB	COEFFICIENTS FOR RTD THERMOMETER PBMS-B.2880 S/N:
Sensor Serial NB	2880
Calib Date ddmmyy	260408
Matrix Size	16
Coeff CRC	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

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

PBMS Quartz Gauge type F

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

Pres Coeff

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

PBMS Quartz Gauge type F

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

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+ .114978632240E+03	- .318843725686E-03	+ .651766172344E-08
Fb**1	- .590205352250E-02	+ .168686572404E-07	+ .162345150354E-12

Fb**2	-.362996279263E-07	+.407654559315E-12	+.452411391342E-17
Fb**3	-.276281361281E-12	+.871817059405E-17	0.0
Fb**4	0.0	0.0	0.0
Fb**5	0.0	0.0	0.0
	Fc**3	Fc**4	Fc**5
Fb**0	+.199118144093E-13	-.260997933236E-18	+.618908211390E-21
Fb**1	+.250084591851E-17	+.455070709200E-21	0.0
Fb**2	0.0	0.0	0.0
Fb**3	0.0	0.0	0.0
Fb**4	0.0	0.0	0.0
Fb**5	0.0	0.0	0.0

PBMS Quartz Gauge type F

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

Clock Freq Coeff

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

PBMS Quartz Gauge type F

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

Clock Temp Coeff

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

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



Well: **SGU 8509A–36 (B36 496)**  
Field: **NORTH PARACHUTE**  
County: **GARFIELD**  
State: **COLORADO**

CEMENT BOND LOG  
CBL – VDL  
GAMMA RAY – CCL