

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8506B-34 (E34 496)

Field: STORY GULCH

County: GARFIELD State: COLORADO

SLIM CEMENT MAPPING LOG
CCL – GAMMA RAY – TEMPERATUR

County:	GARFIELD			
Field:	STORY GULCH			
Location:	SHL: 2202 FNL & 1005 FWL			
Well:	SG 8506B-34 (E34 496)			
Company:	ENCANA OIL & GAS (USA) INC			
	LOCATION			
	SHL: 2202 FNL & 1005 FWL		Elev.: K.B. 8353.00 ft	
	BHL: 1638 FNL & 1338 FWL		G.L. 8323.00 ft	
			D.F. 8352.00 ft	
	Permanent Datum:	GROUND LEVEL	Elev.: 8323.00 ft	
	Log Measured From:	KELLY BUSHING	30.00 ft above Perm. Datum	
	Drilling Measured From:	KELLY BUSHING		
	API Serial No.	Section 34	Township 4S	Range 96W
	05-045-21925-000C			

	Run 1	Run 2	Run
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	18-Jan-2014			
Run Number	1			
Depth Driller	11475 ft			
Schlumberger Depth	11398 ft			
Bottom Log Interval	11389 ft			
Top Log Interval	74 ft			
Casing Fluid Type	FRESH WATER			
Salinity				
Density	8.4 lbm/gal			
Fluid Level	74 ft			
BIT/CASING/TUBING STRING				
Bit Size	7.875 in			
From	8158 ft			
To	11475 ft			
Casing/Tubing Size	4.500 in			
Weight	11.6 lbm/ft			
Grade				
From	30 ft			
To	11455 ft			
Maximum Recorded Temperatures	281 degF			
Logger On Bottom	18-Jan-2014		12:15	
Unit Number	Location			
417	VERNAL			
Recorded By	JASON BARRY			
Witnessed By	SCOTT PITT			

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: 7-JAN-2014 22:46:59

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-25ZA-XXS
Serial Number:	600807	Serial Number:	1157	Serial Number:	111268
Calibration Date:	6/27/2013	Calibration Date:	9/24/2013	Length:	16000 FT
Calibrator Serial Number:		Calibrator Serial Number:	100518		
Calibration Cable Type:	1-25P	Number of Calibration Points:	10	Conveyance Method:	Wireline
Wheel Correction 1:	-3	Calibration RMS:	15	Rig Type:	LAND
Wheel Correction 2:	-4	Calibration Peak Error:	31		

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. IDW USED AS PRIMARY DEPTH REFERENCE
2. SWPT DRUM COUNTER USED AS SECONDARY DEPTH REFERENCE
- 3.
- 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.

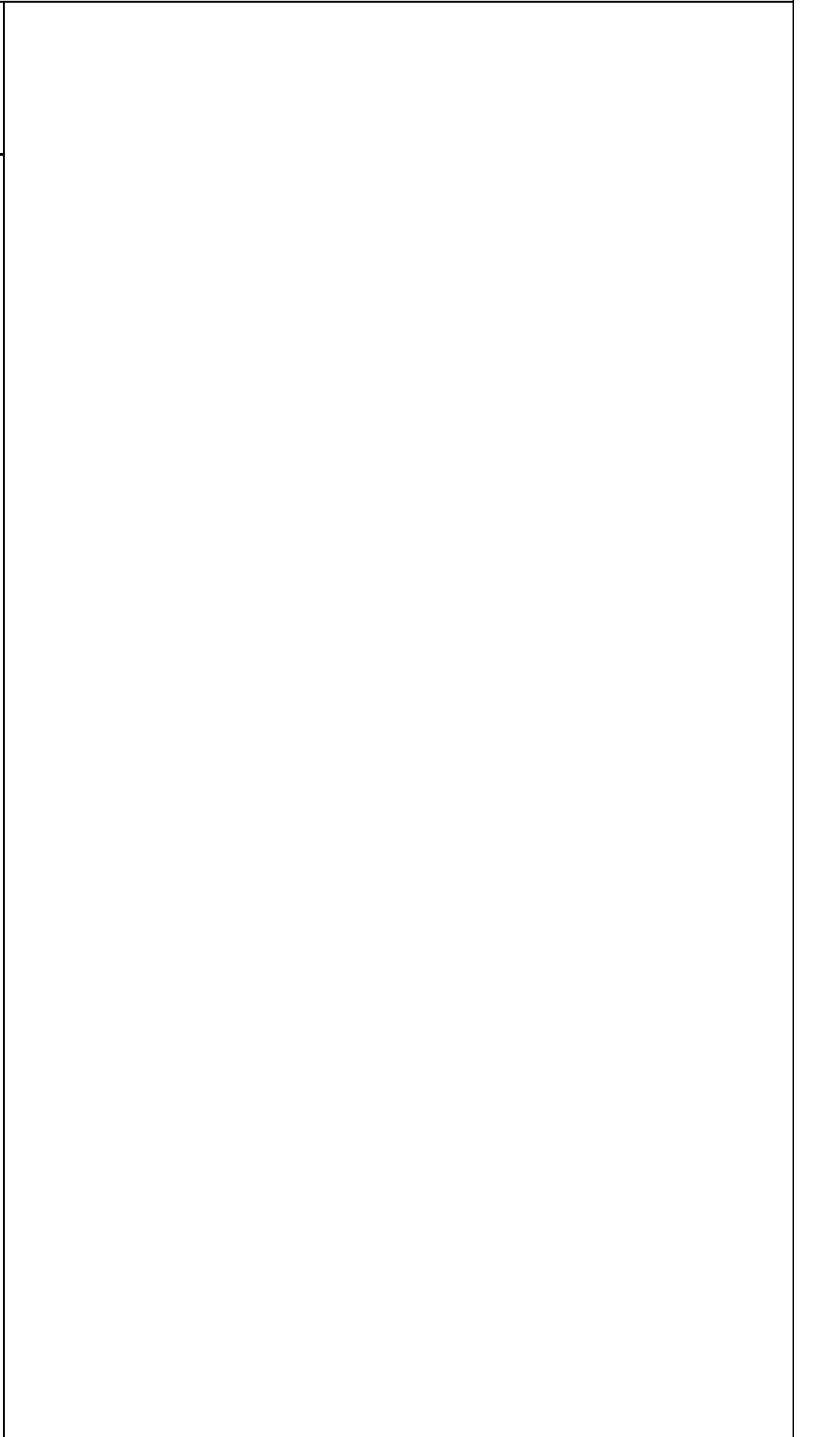
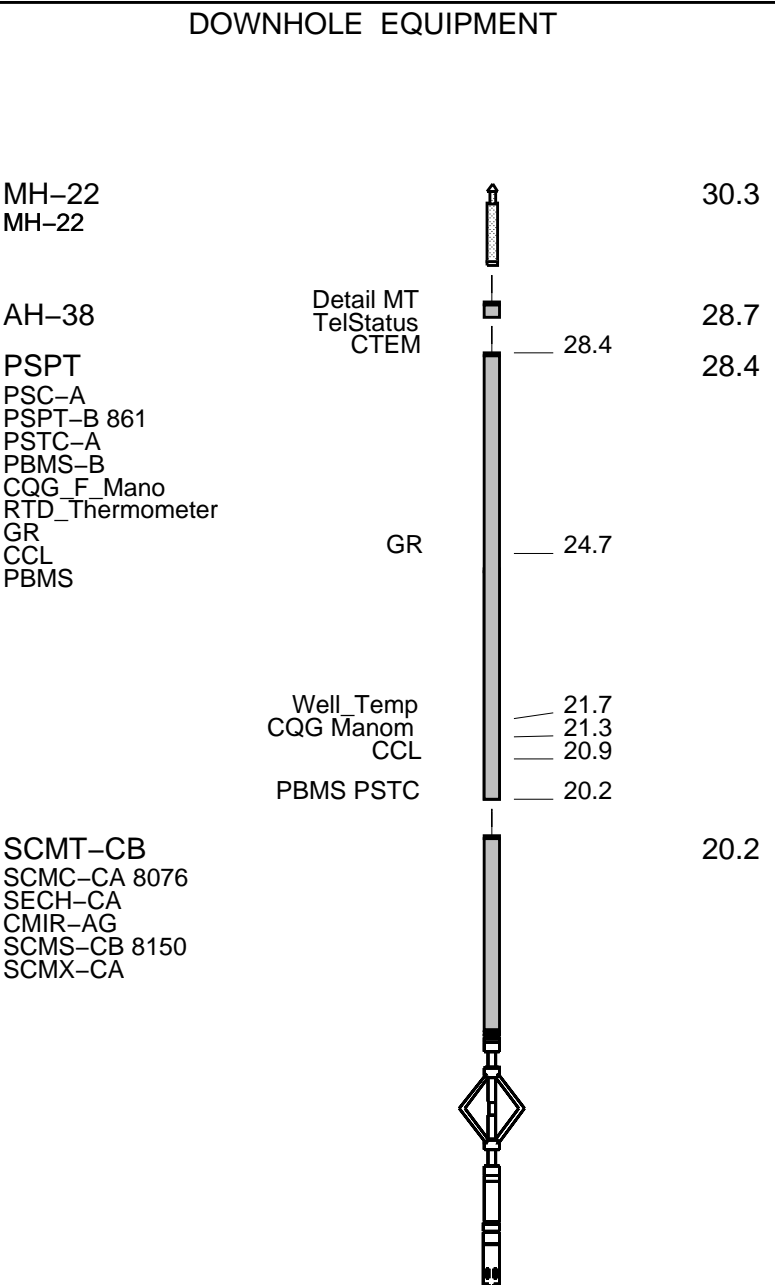
OTHER SERVICES1 OS1: NONE OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FIRST RUN IN HOLE CORRELATED TO DOWNLOG	
TOOL RAN AS PER TOOL SKETCH	
ENTRANCE TIME: 11:15	
TIME AT BOTTOM: 12:15	
EXIT TIME: 15:15	

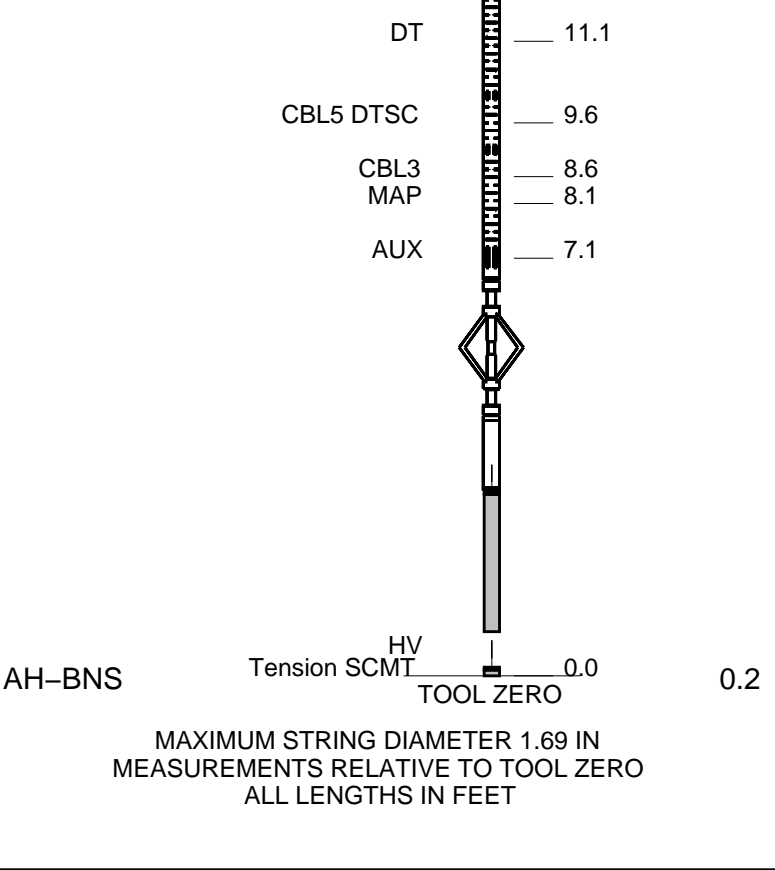
MAX RECORDED TEMPERATURE: 281 DEGF	
MAX RECORDED PRESSURE: 4800 PSIA	
SHORT JOINTS: 7216 FT & 9964 FT	
MAIN PASS LOGGED UNDER 0 SURFACE PRESSURE	
EXPECTED CBL AMP IN FREE PIPE = 80 MV	
CREW: J BARRY, M MCCOY, B CUPP, J ORTIZ, D MOWER	
THANK YOU FOR CHOOSING E&P WIRELINE, A SCHLUMBERGER COMPANY	

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
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

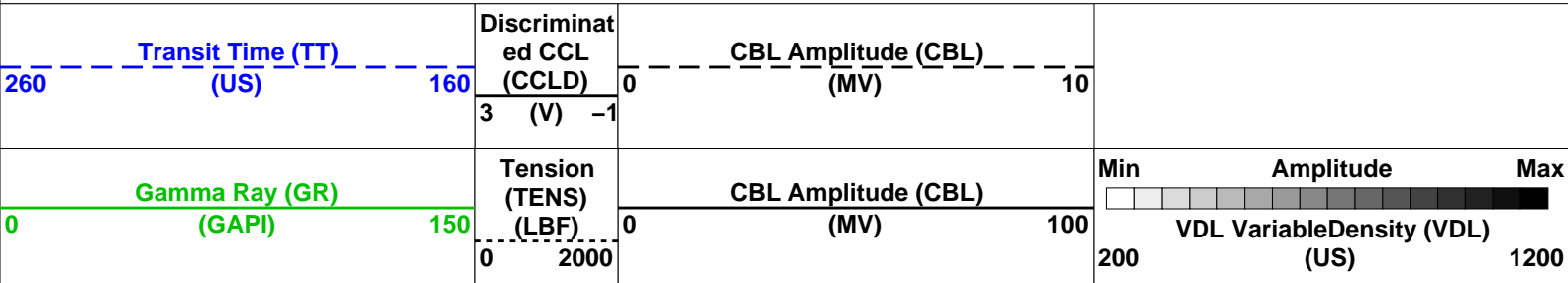
Company: ENCANA OIL & GAS (USA) INC Well: SG 8506B-34 (E34 496)

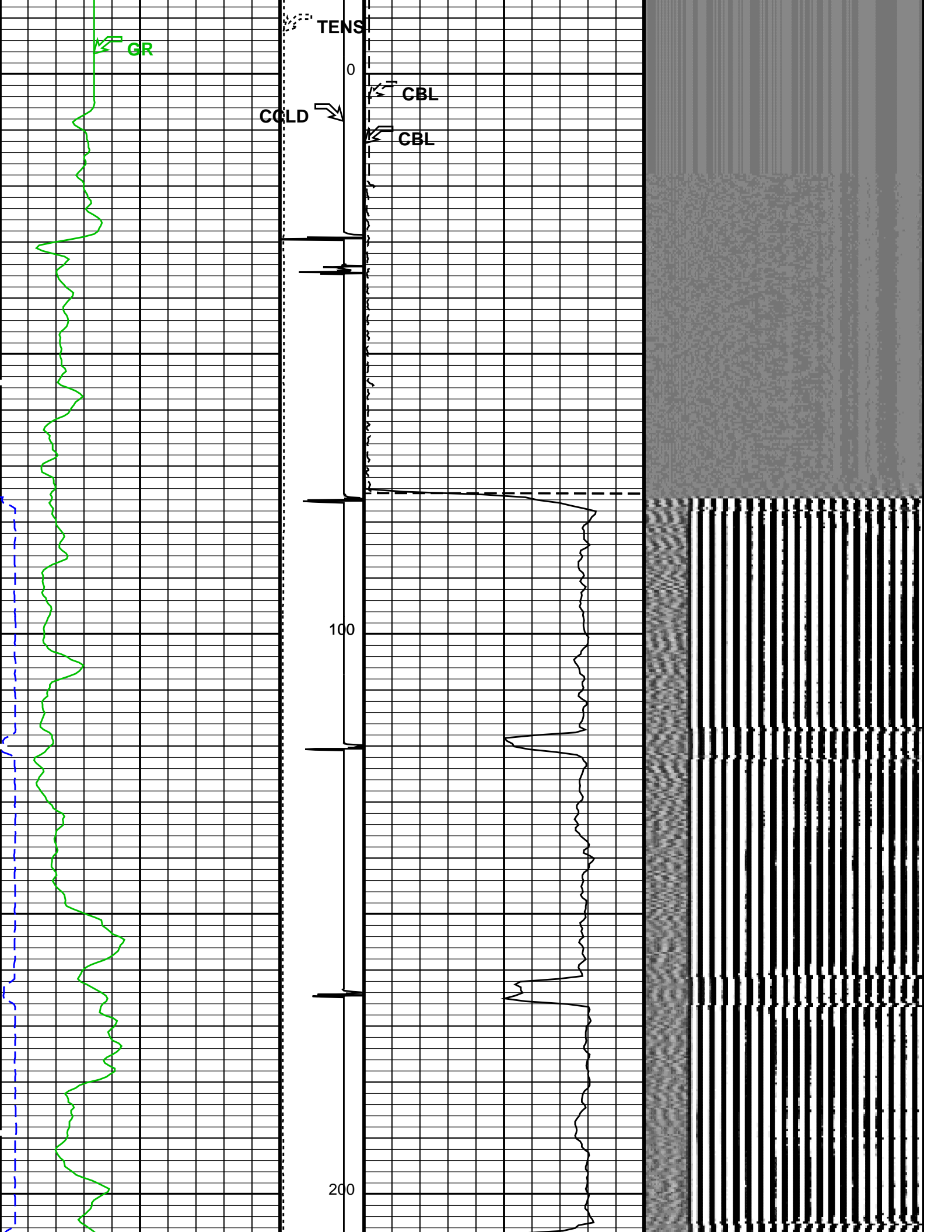
Input DLIS Files						
DEFAULT	SCMT_PSP_050PUP	FN:47	PRODUCER	19-Jan-2014 04:45	11410.0 FT	-15.5 FT
Output DLIS Files						
DEFAULT	SCMT_PSP_002PUP	FN:1	PRODUCER	19-Jan-2014 18:31	11410.0 FT	-15.5 FT

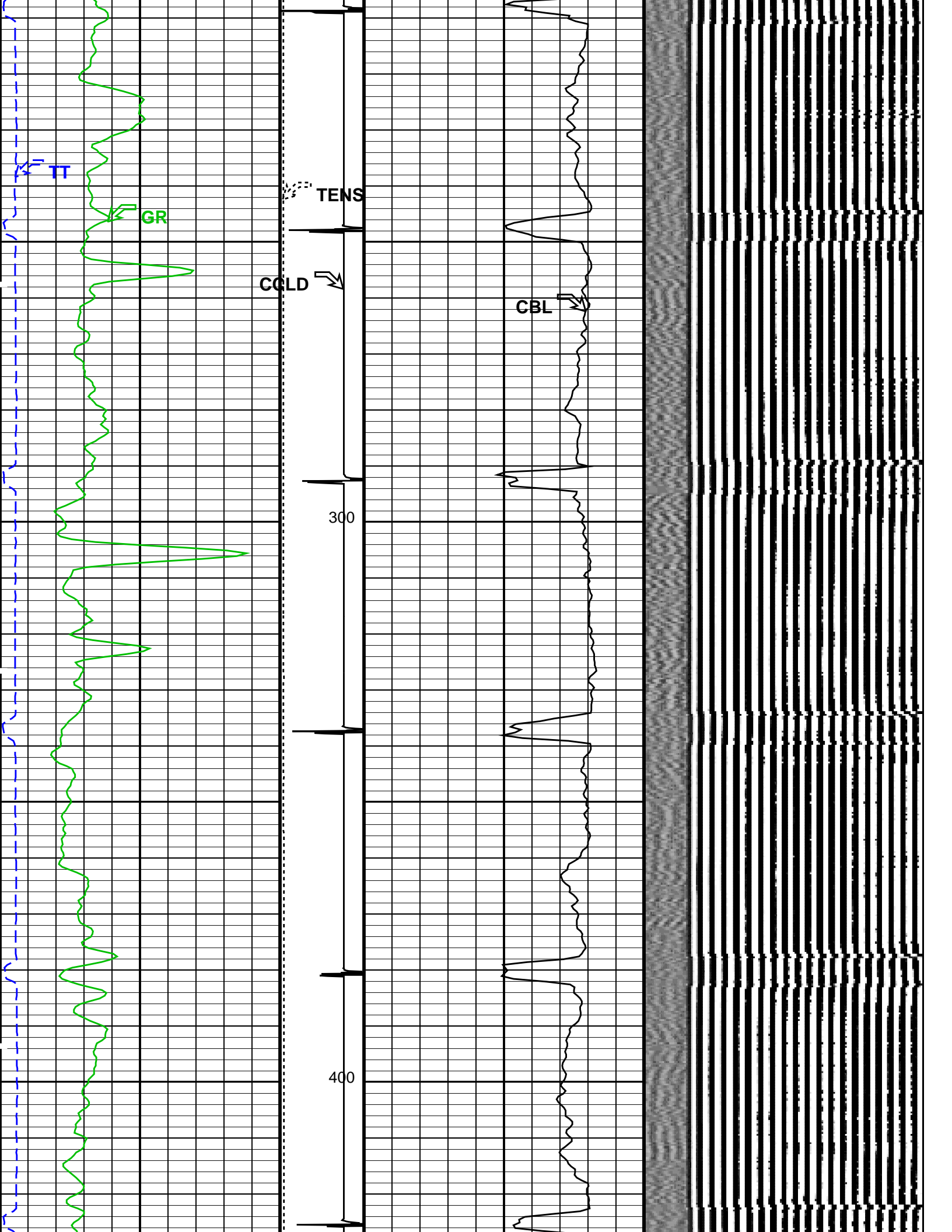
OP System Version: 19C2-270			
SCMT-CB	19C2-270	PSPT	19C2-270

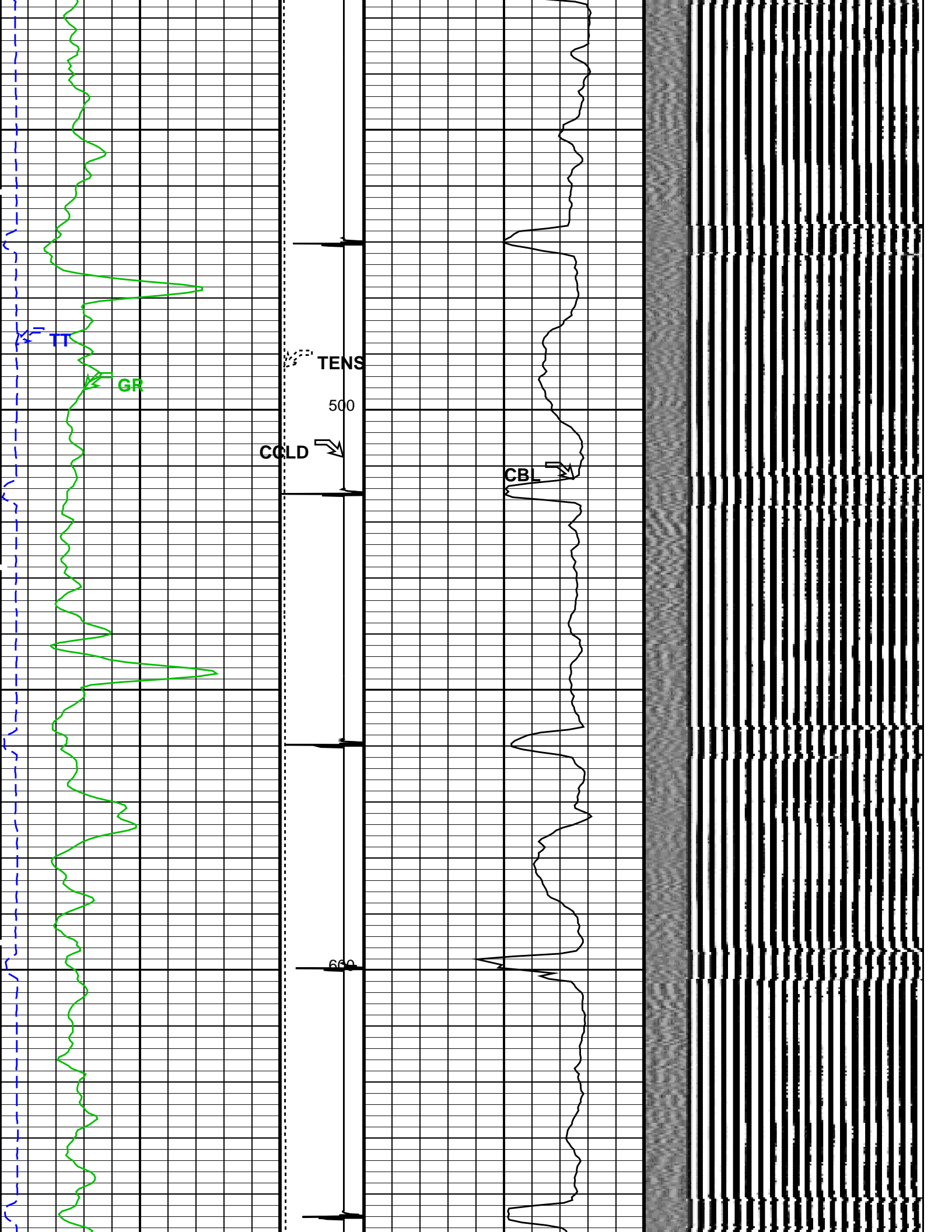
PIP SUMMARY

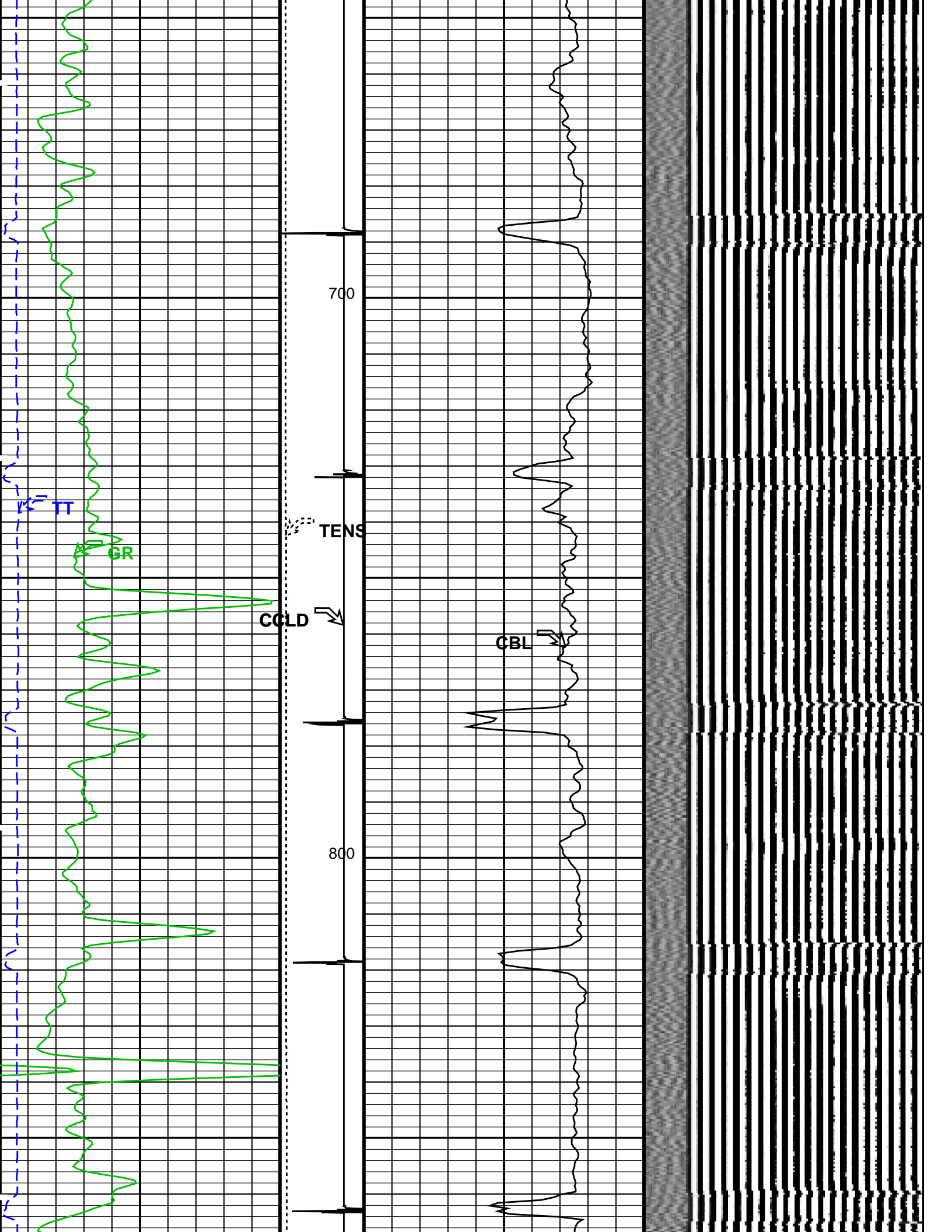
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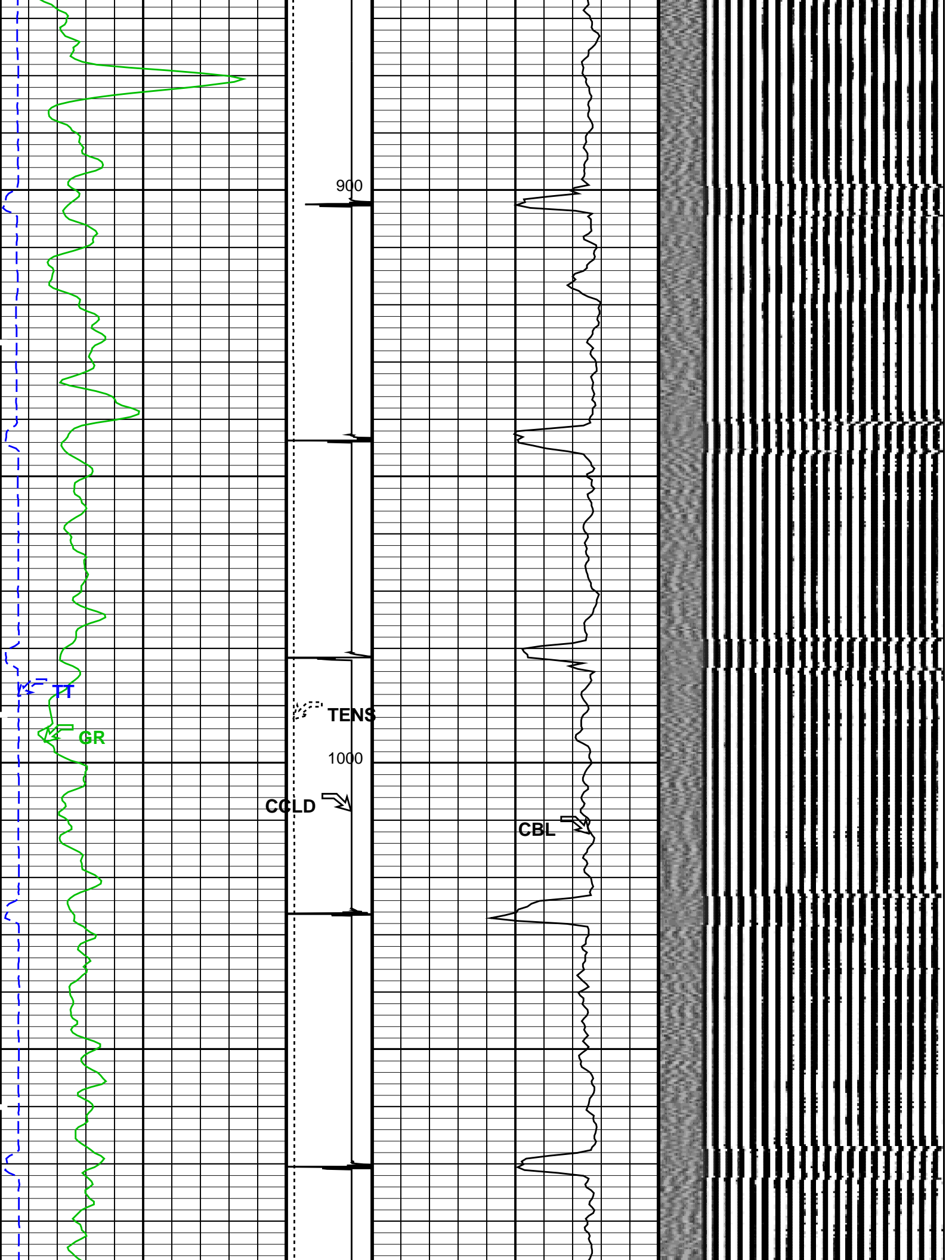


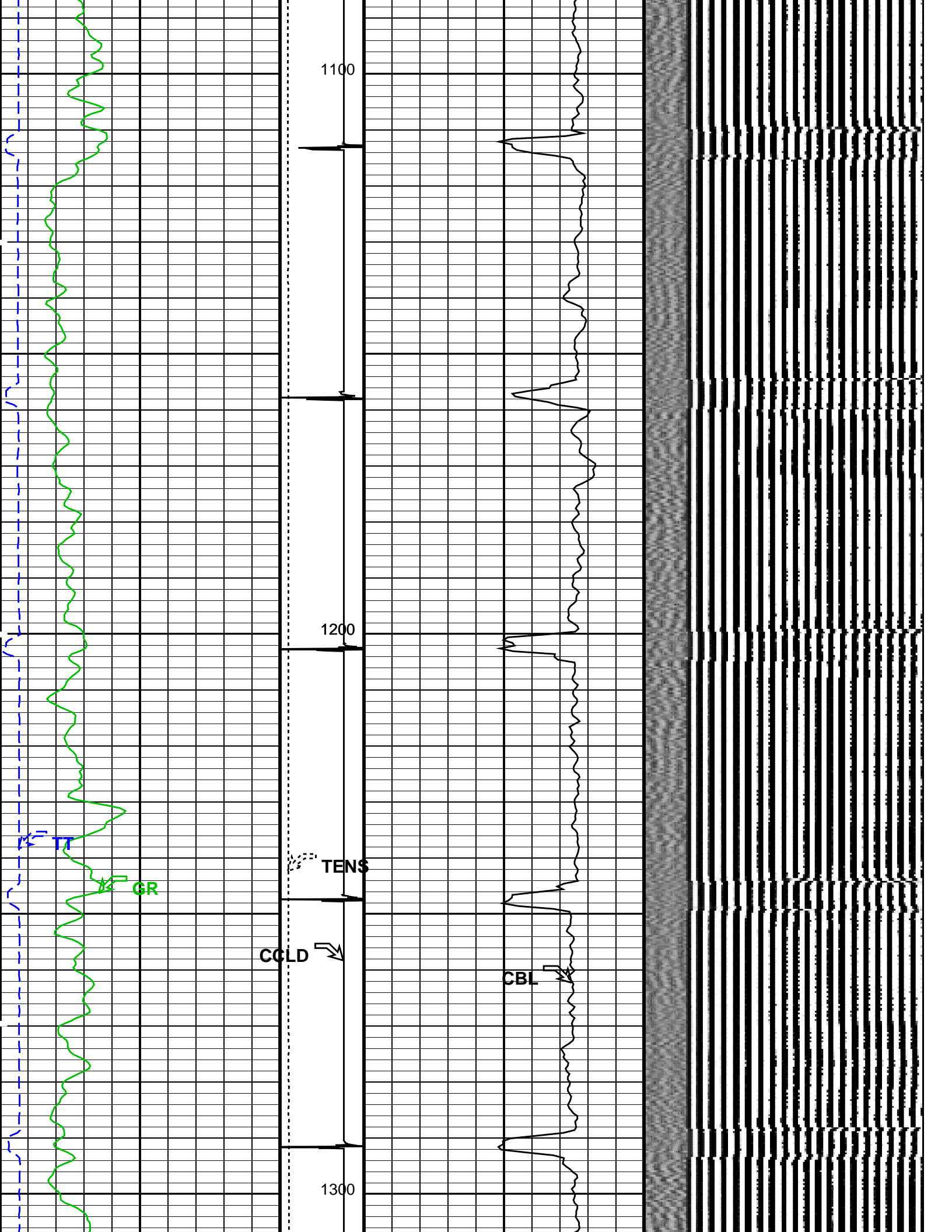


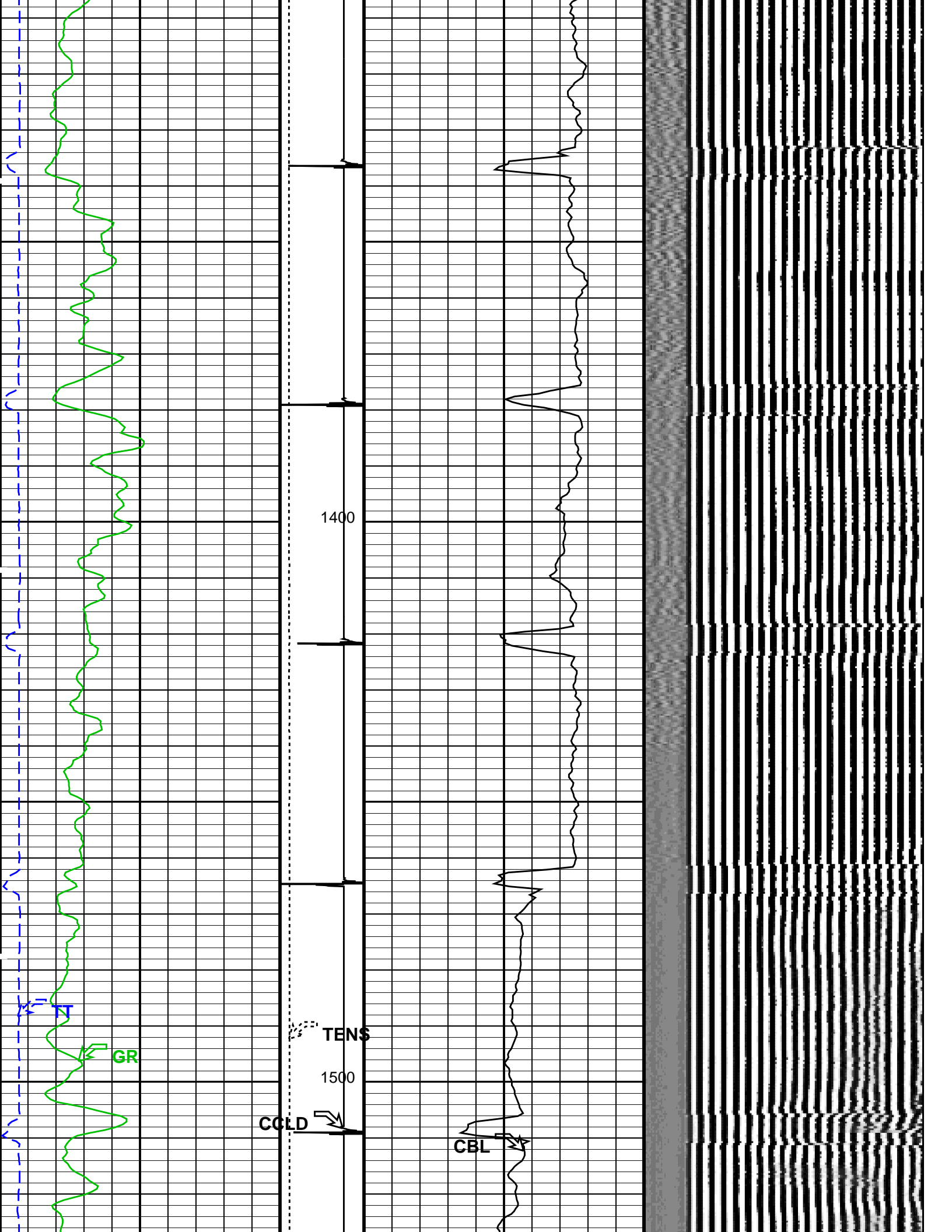


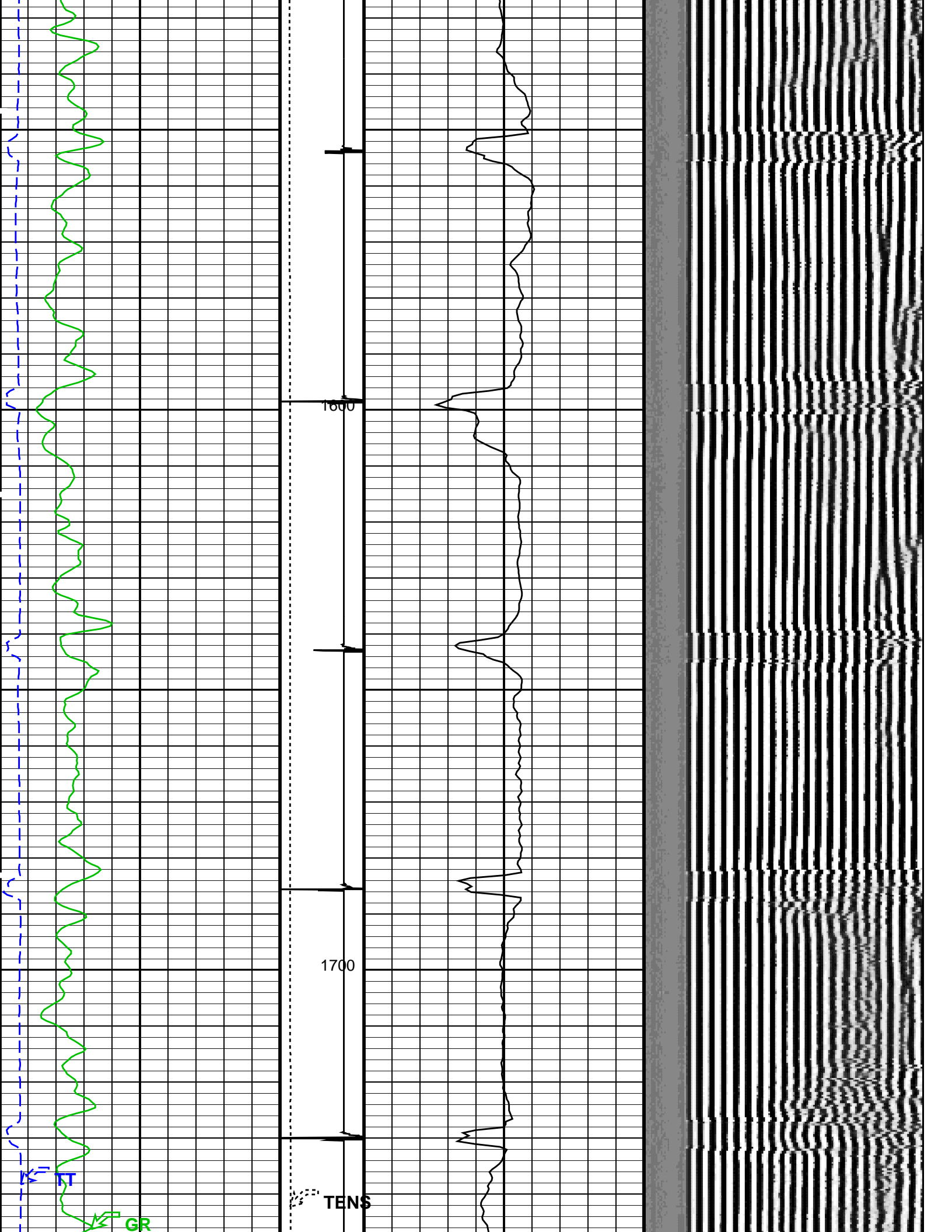


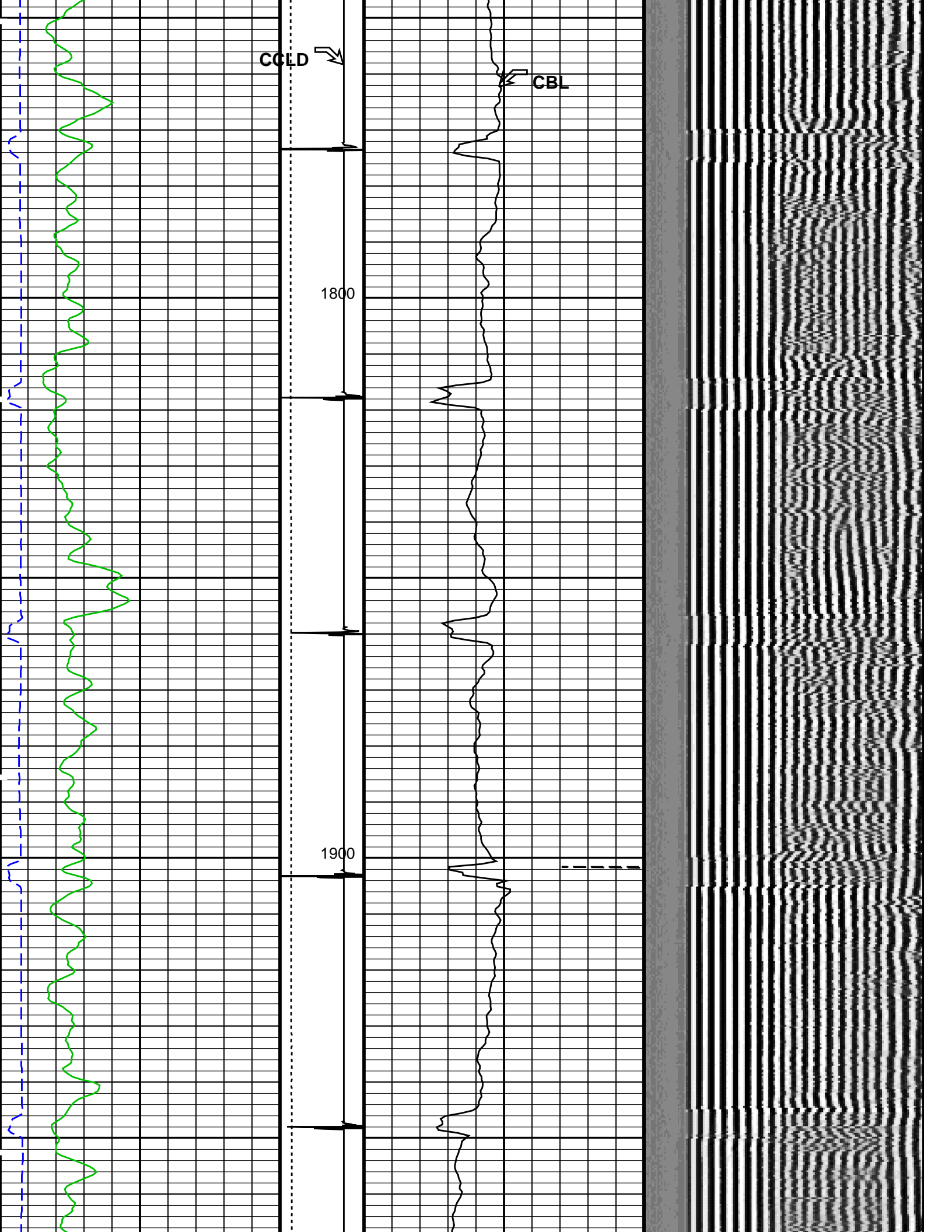


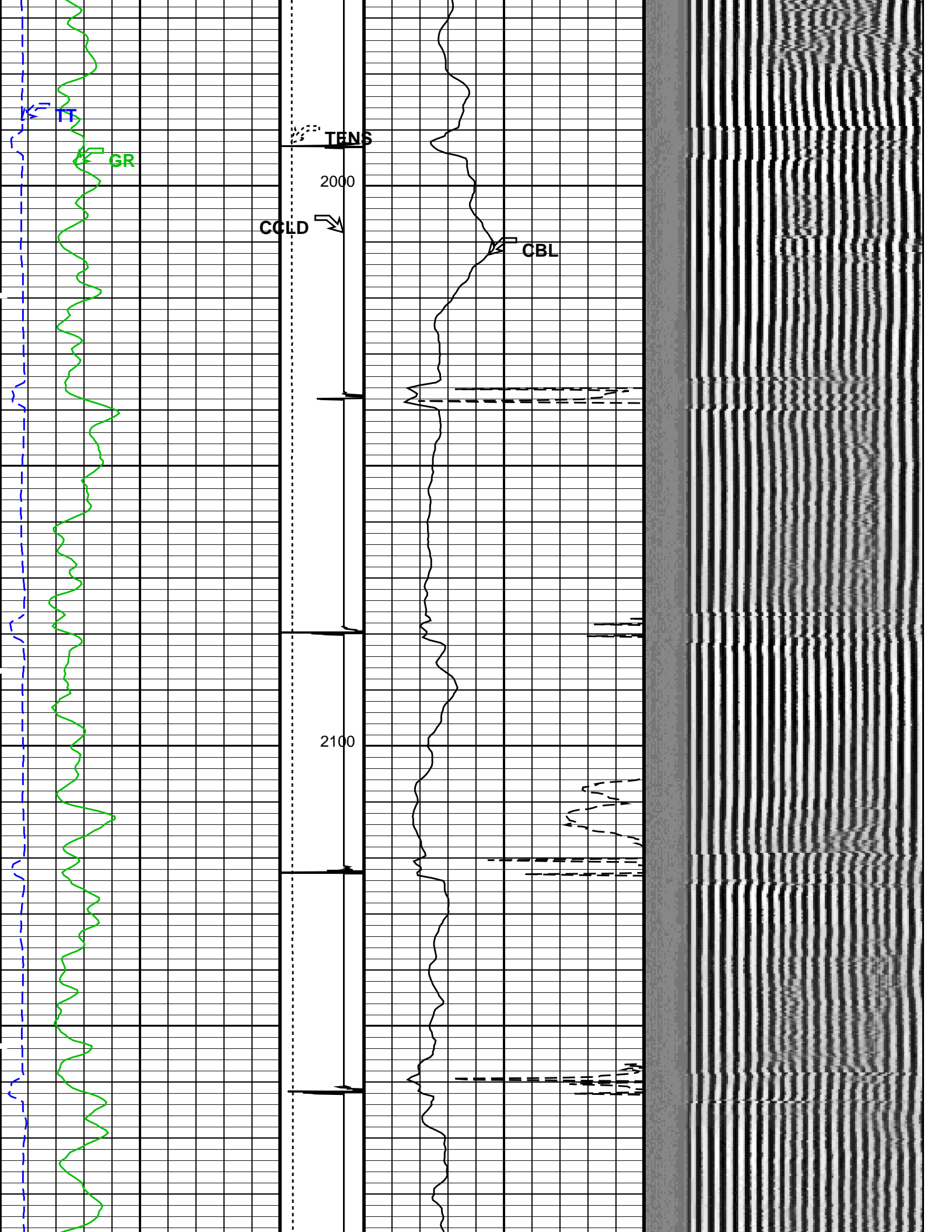


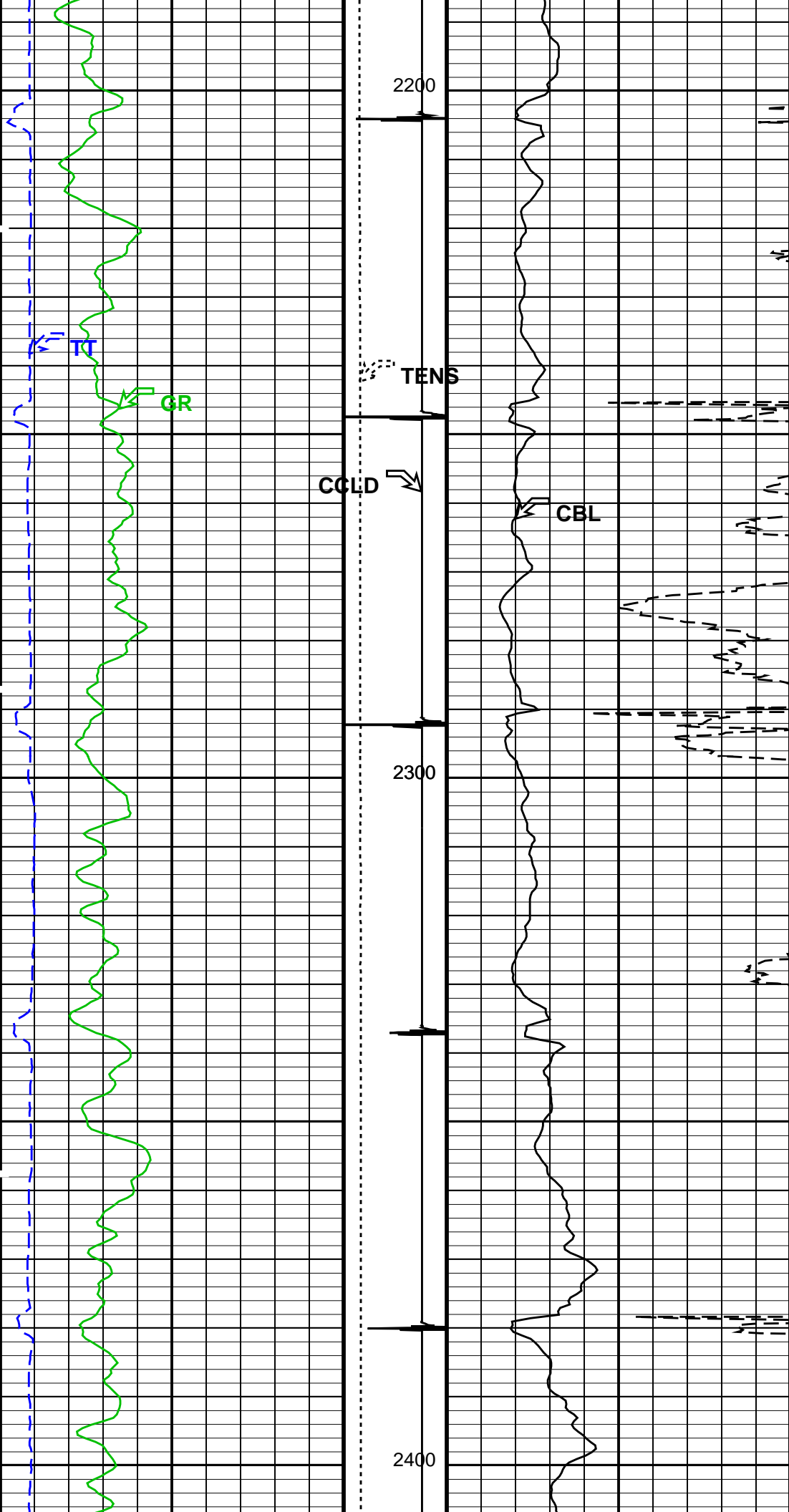


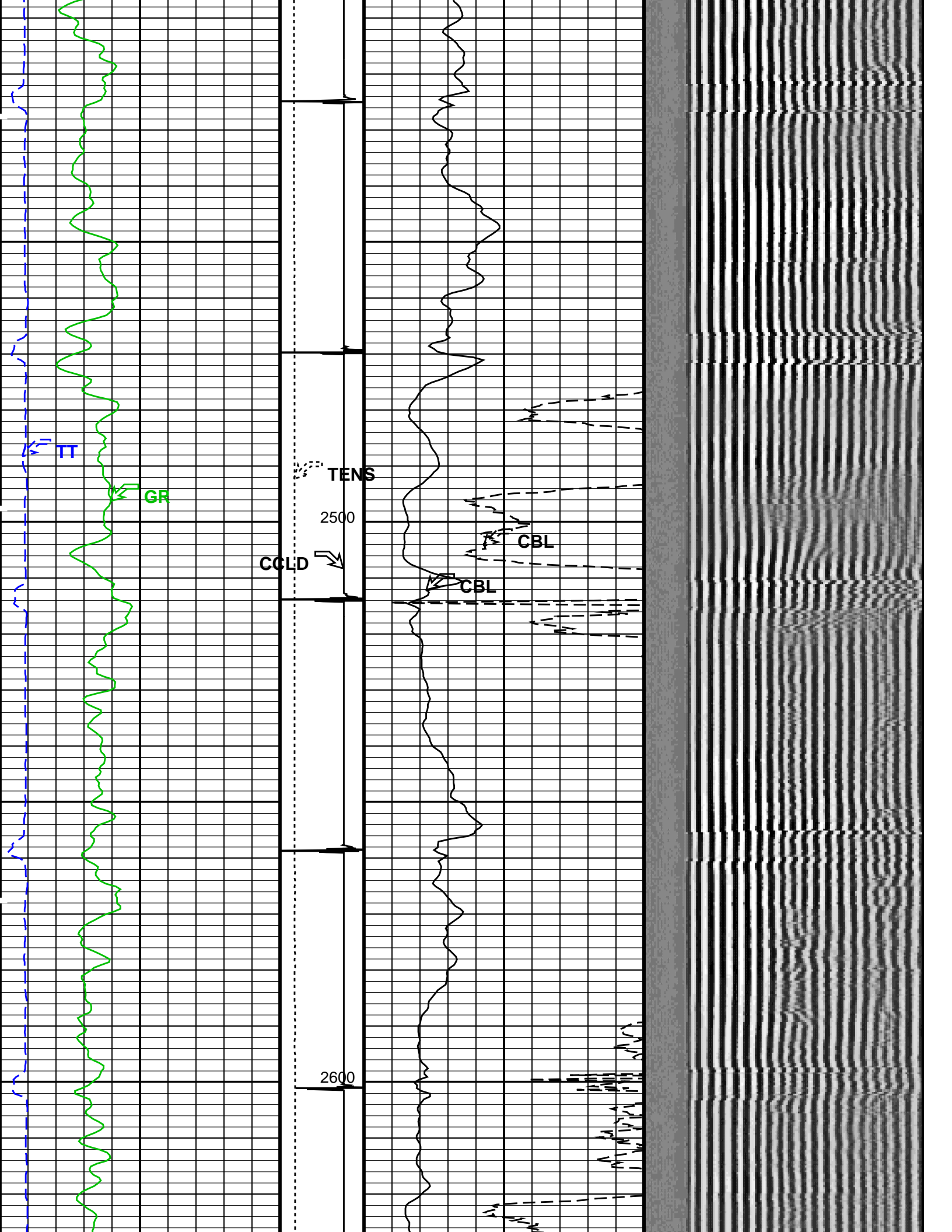


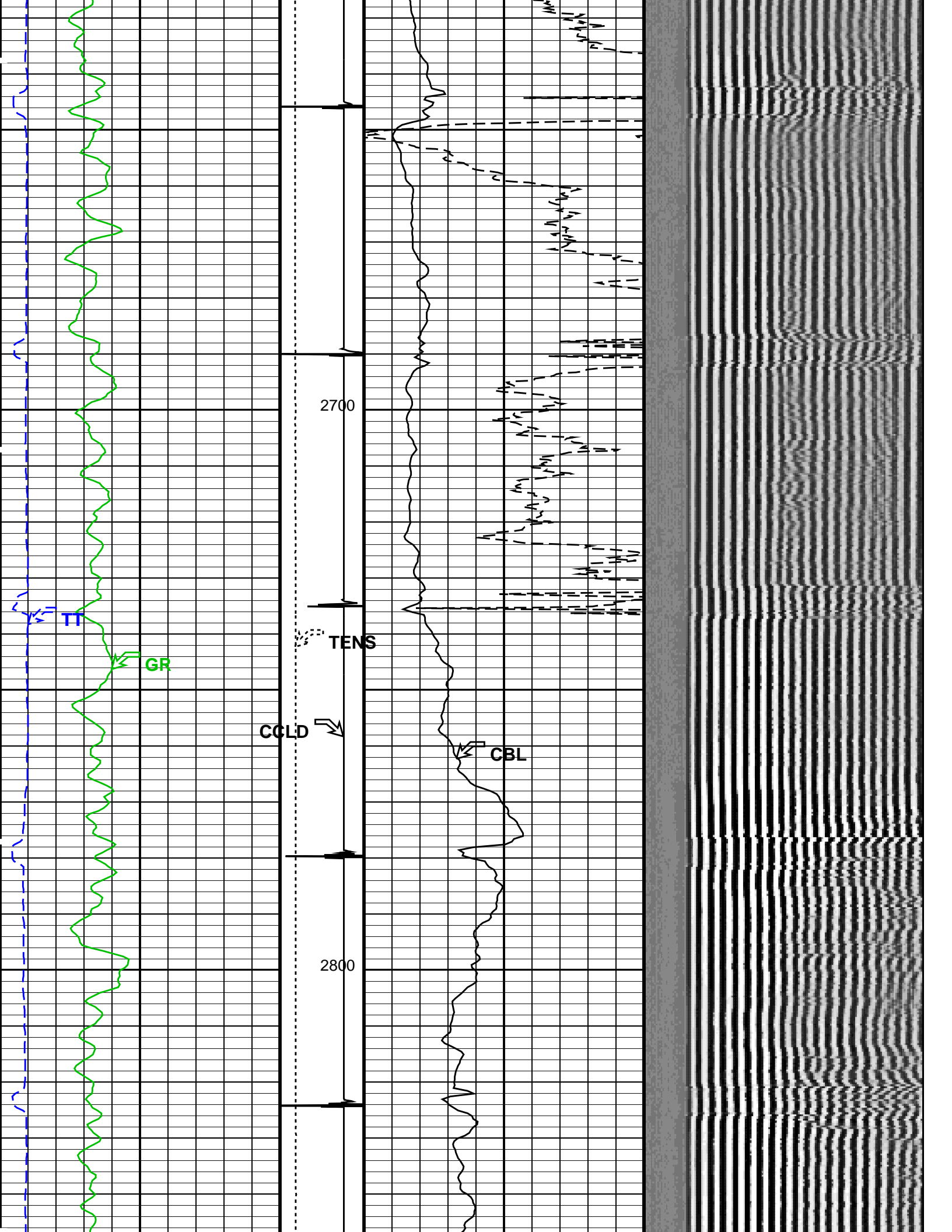


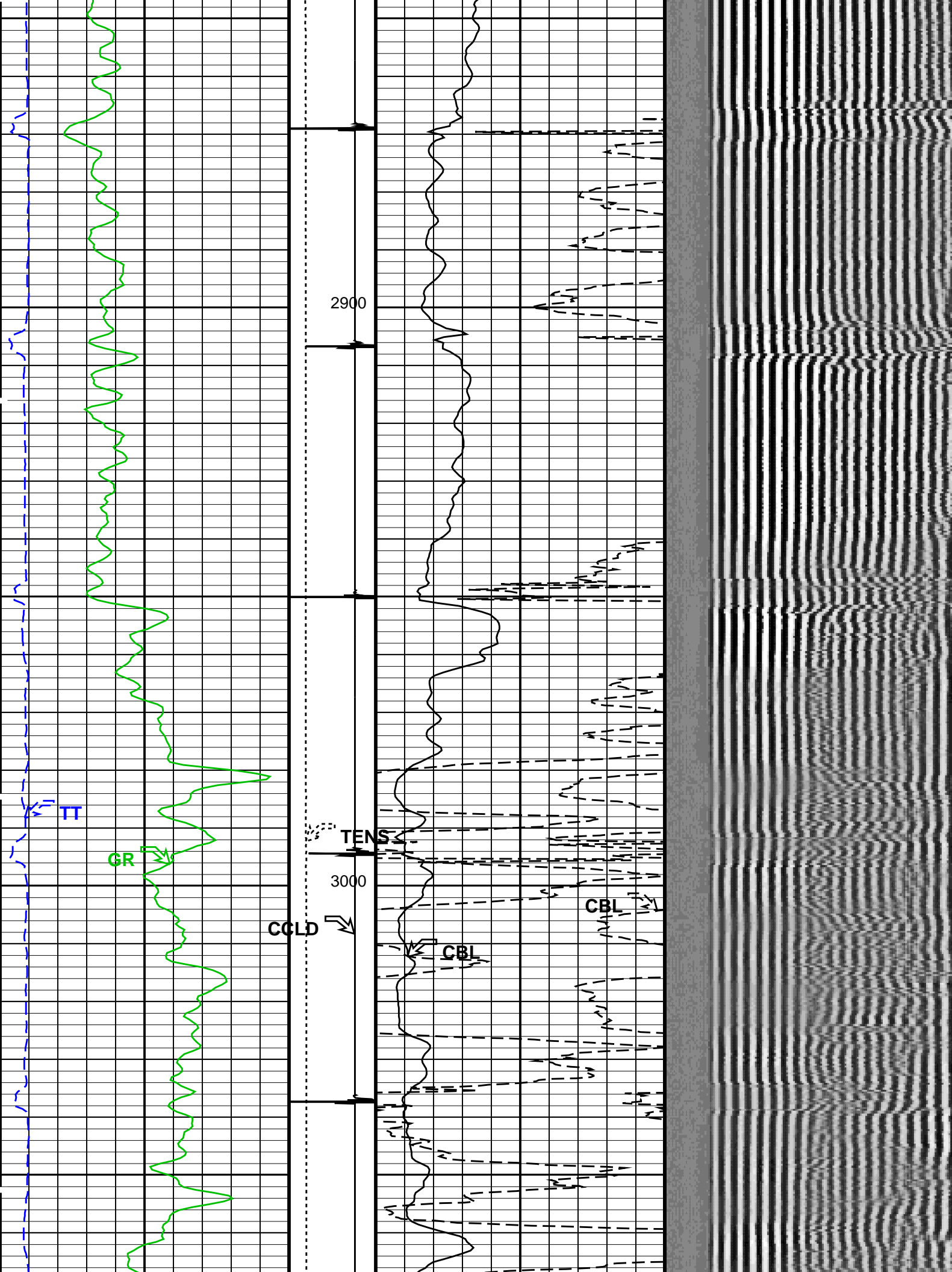


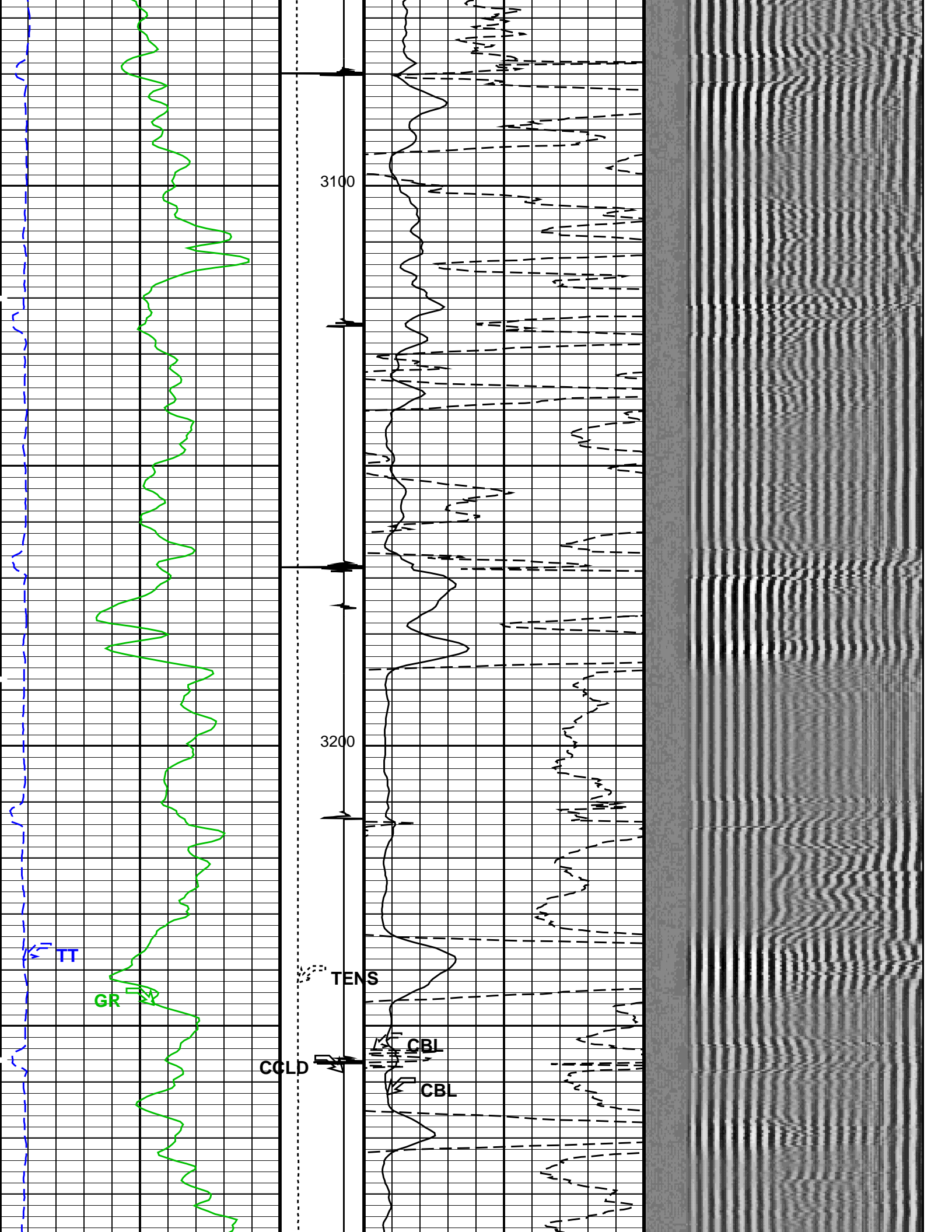


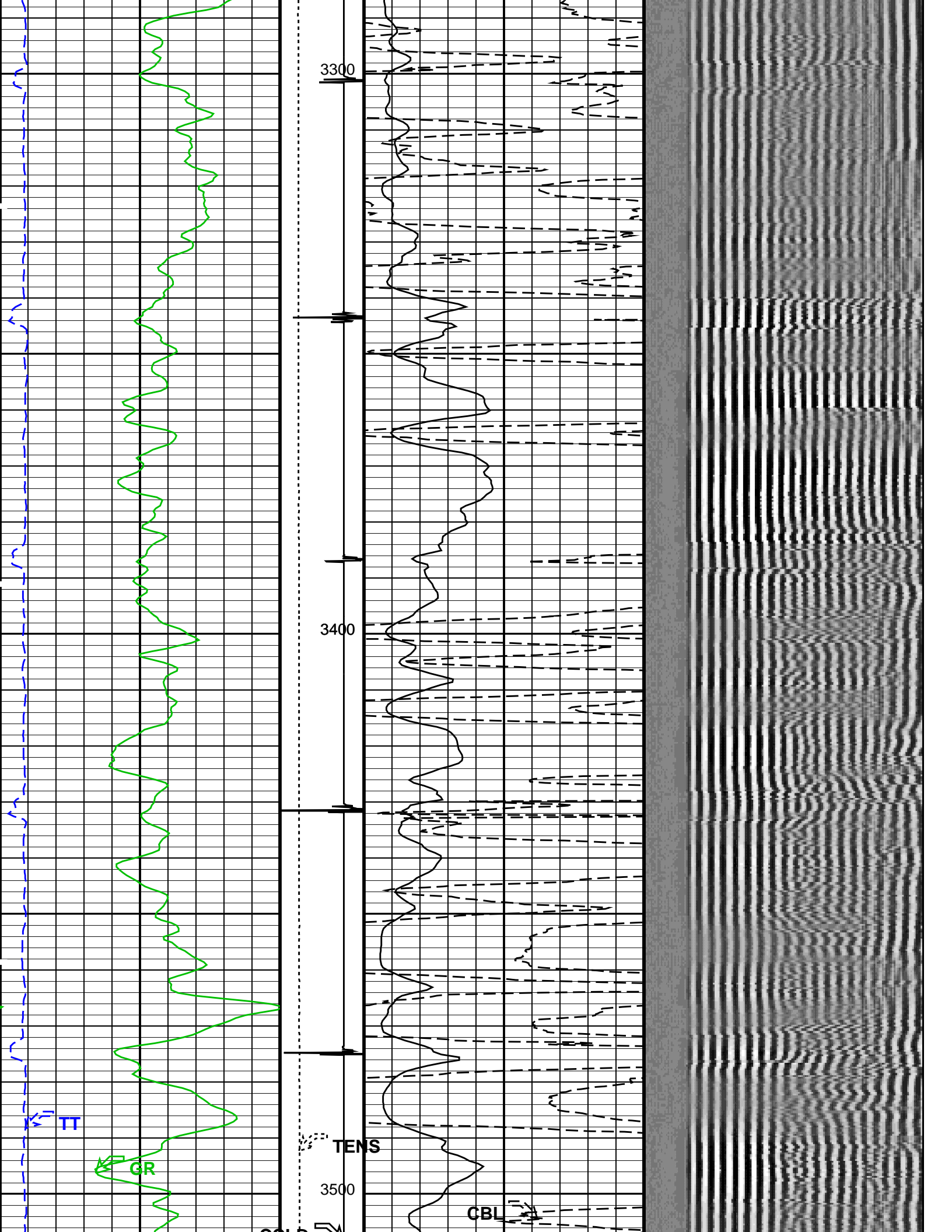


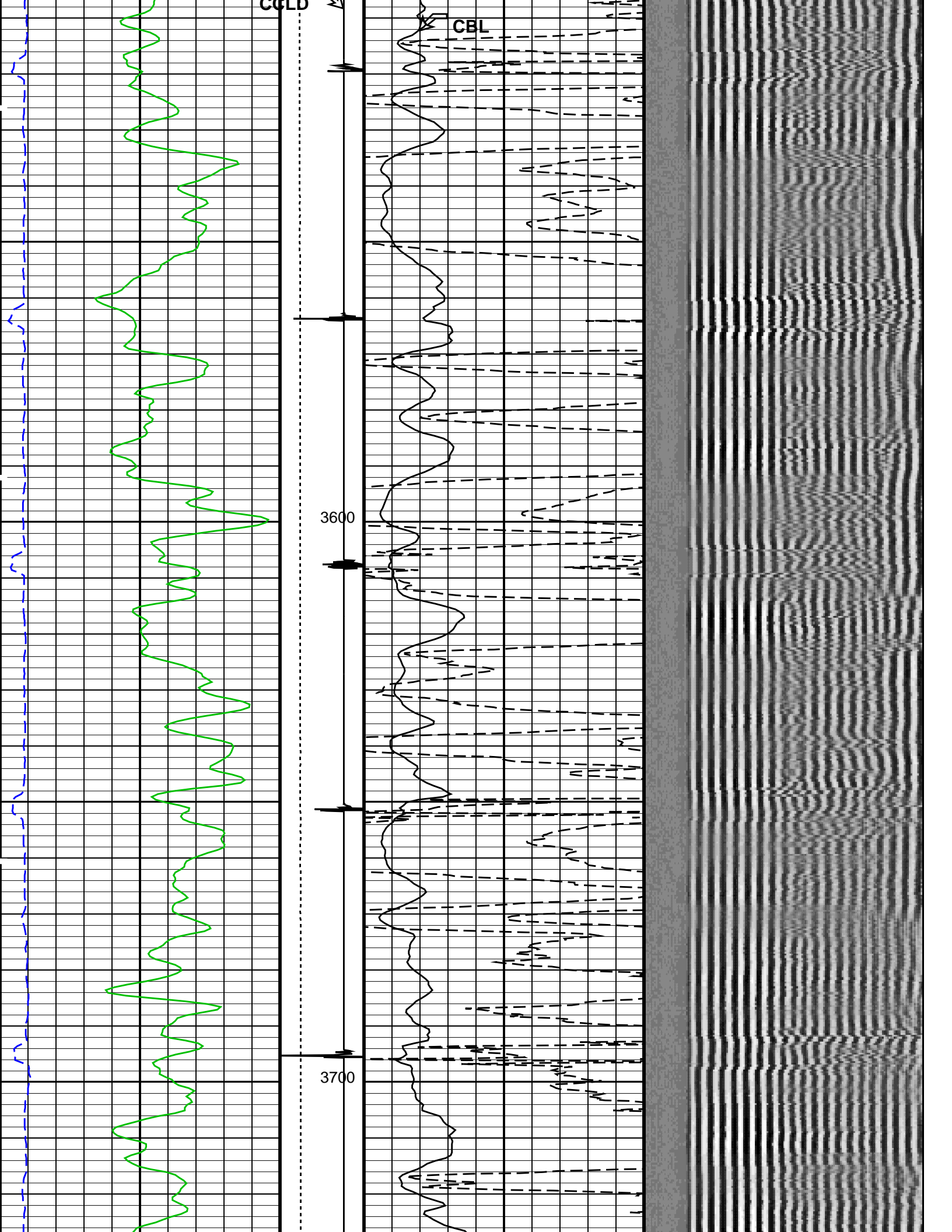


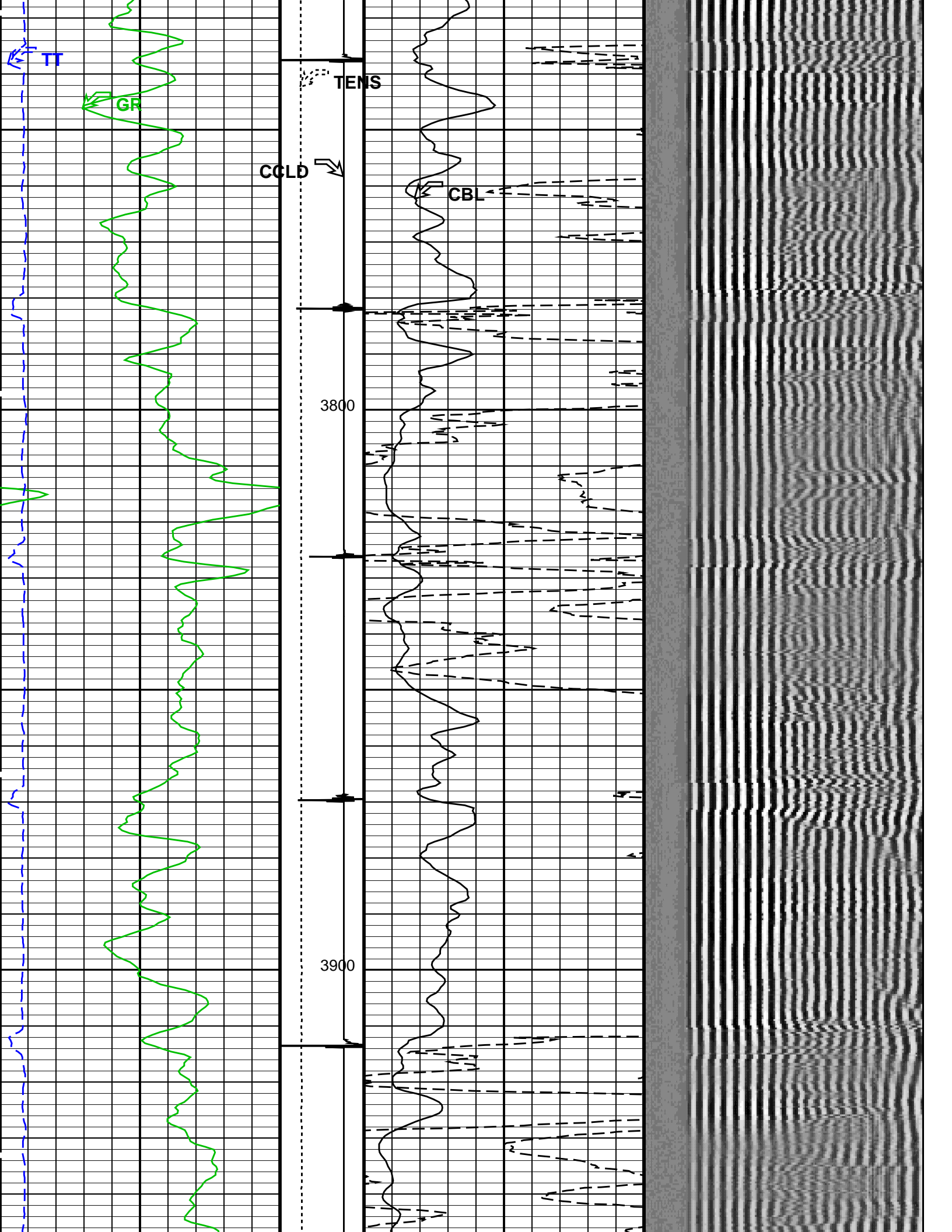


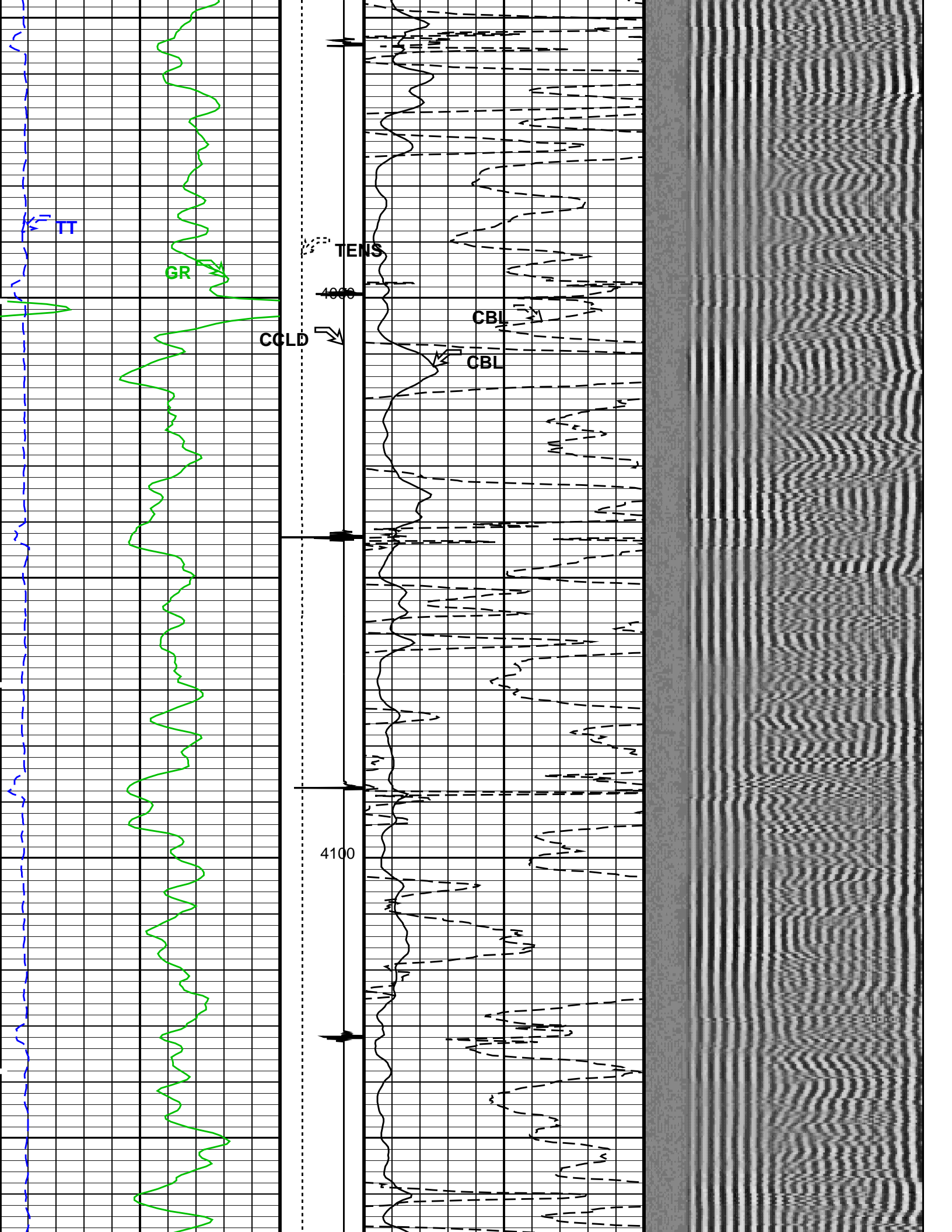


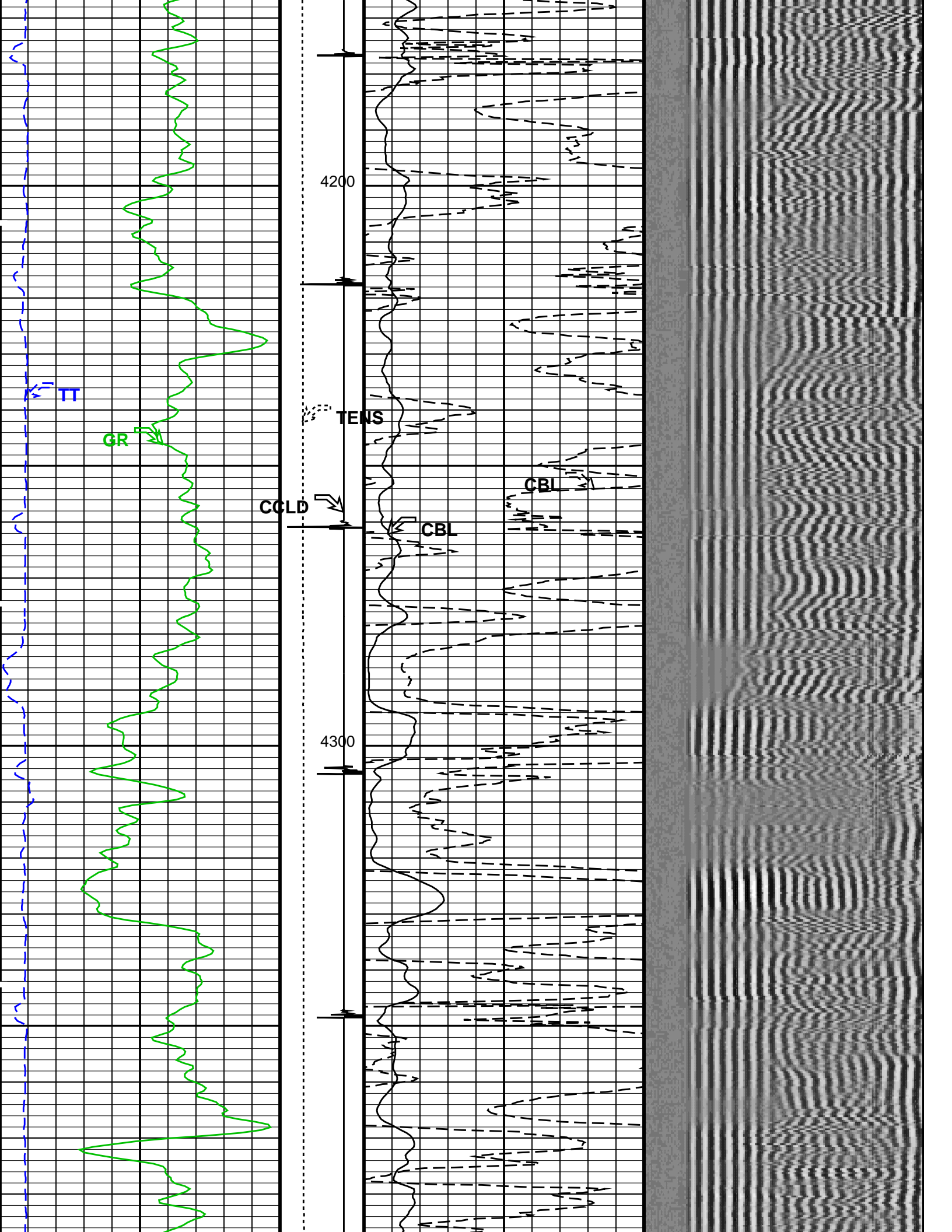


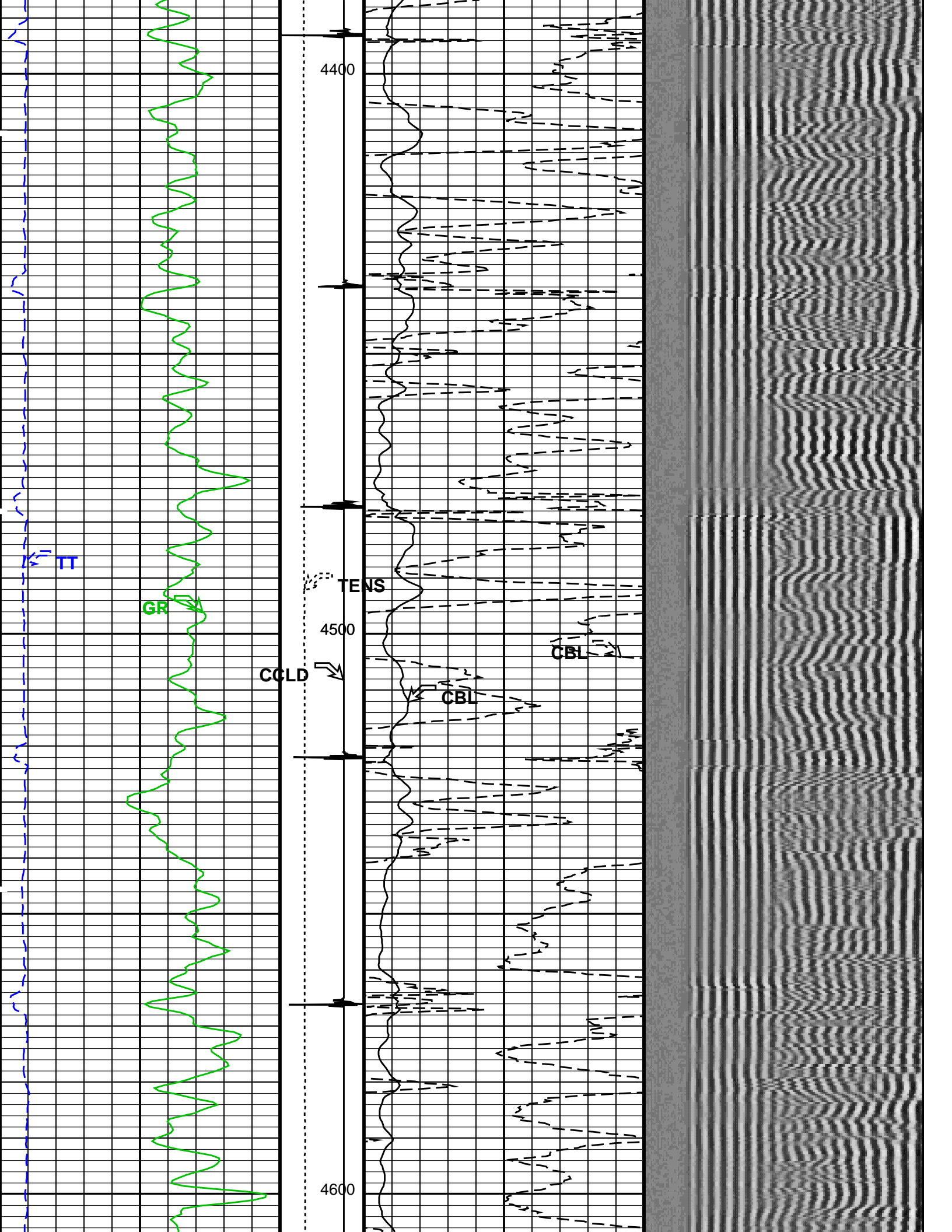


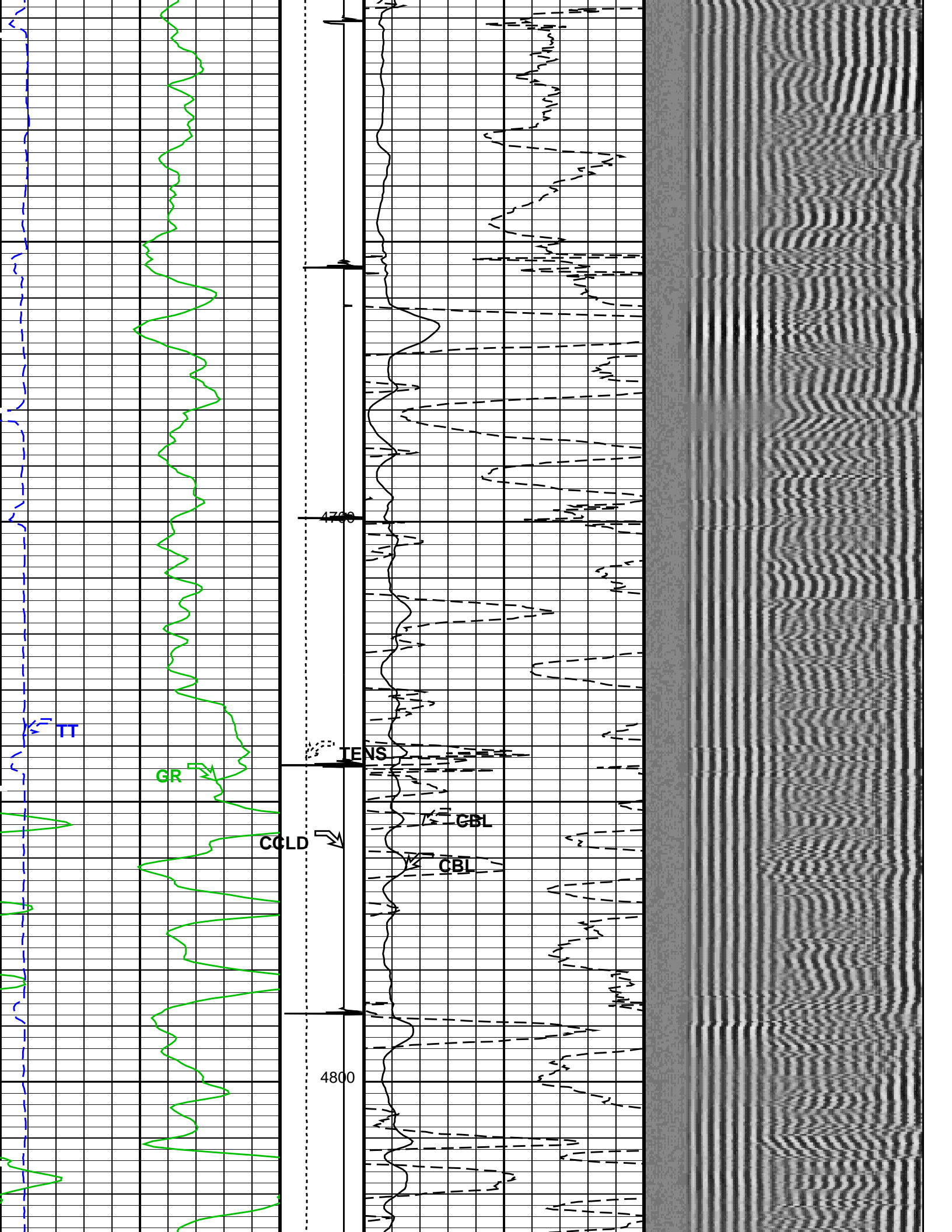


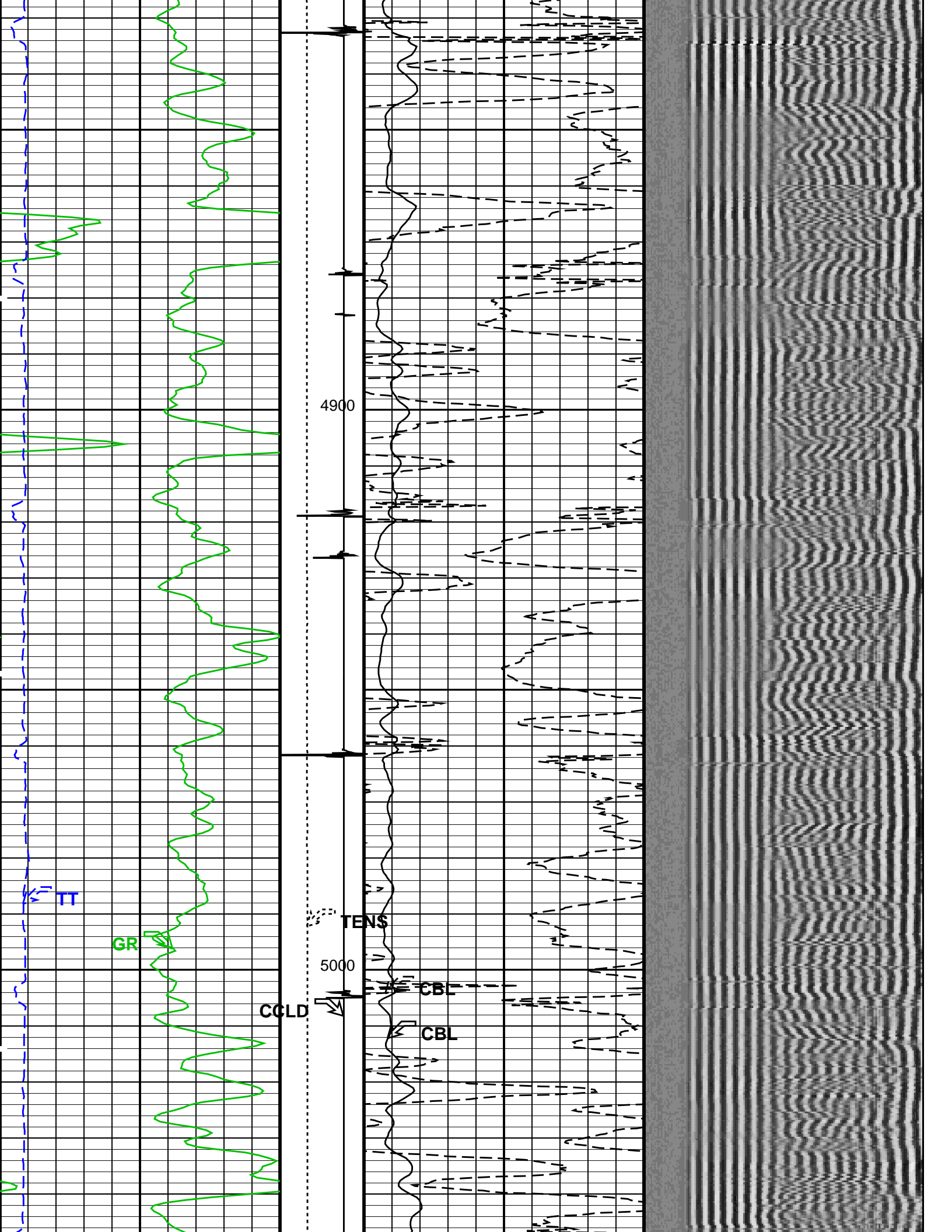


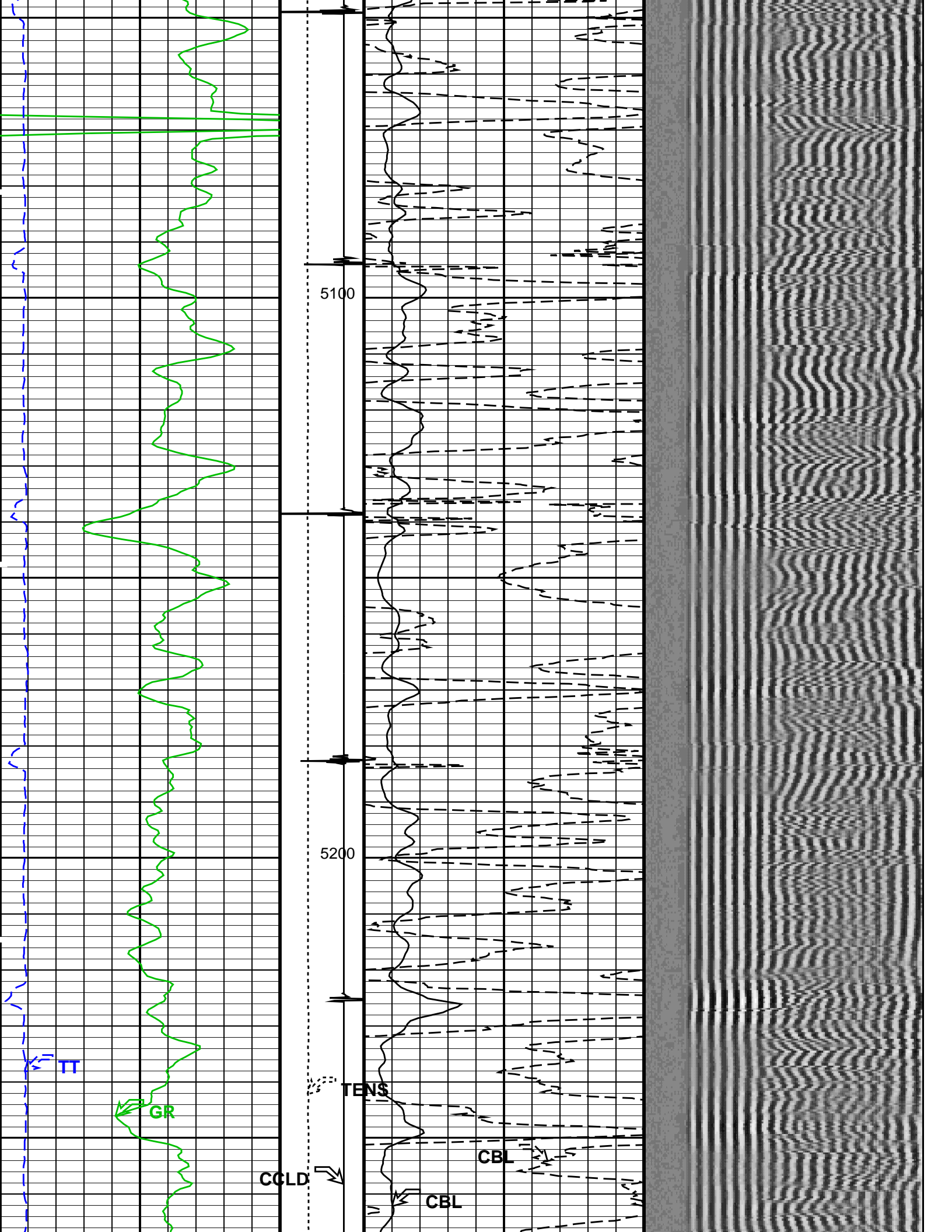


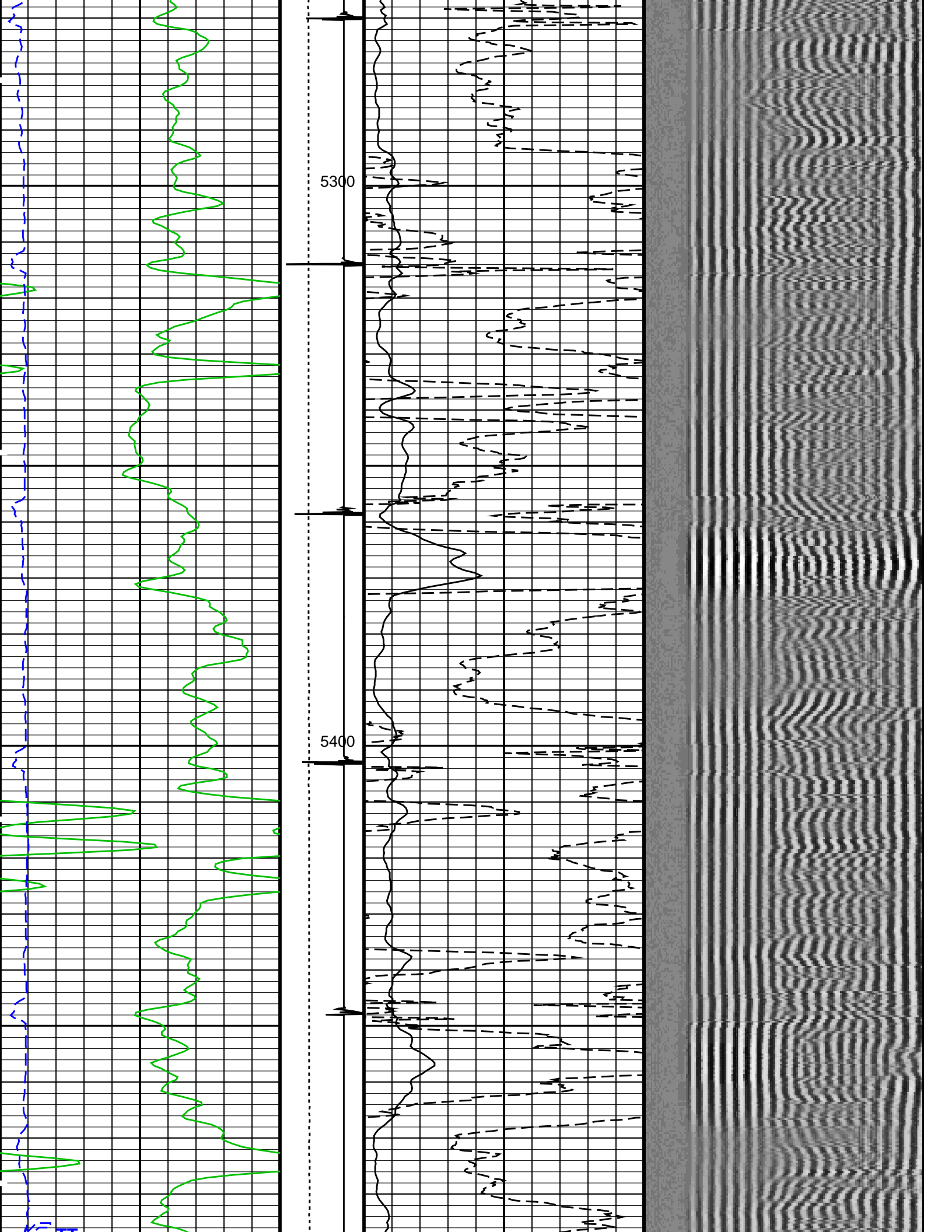


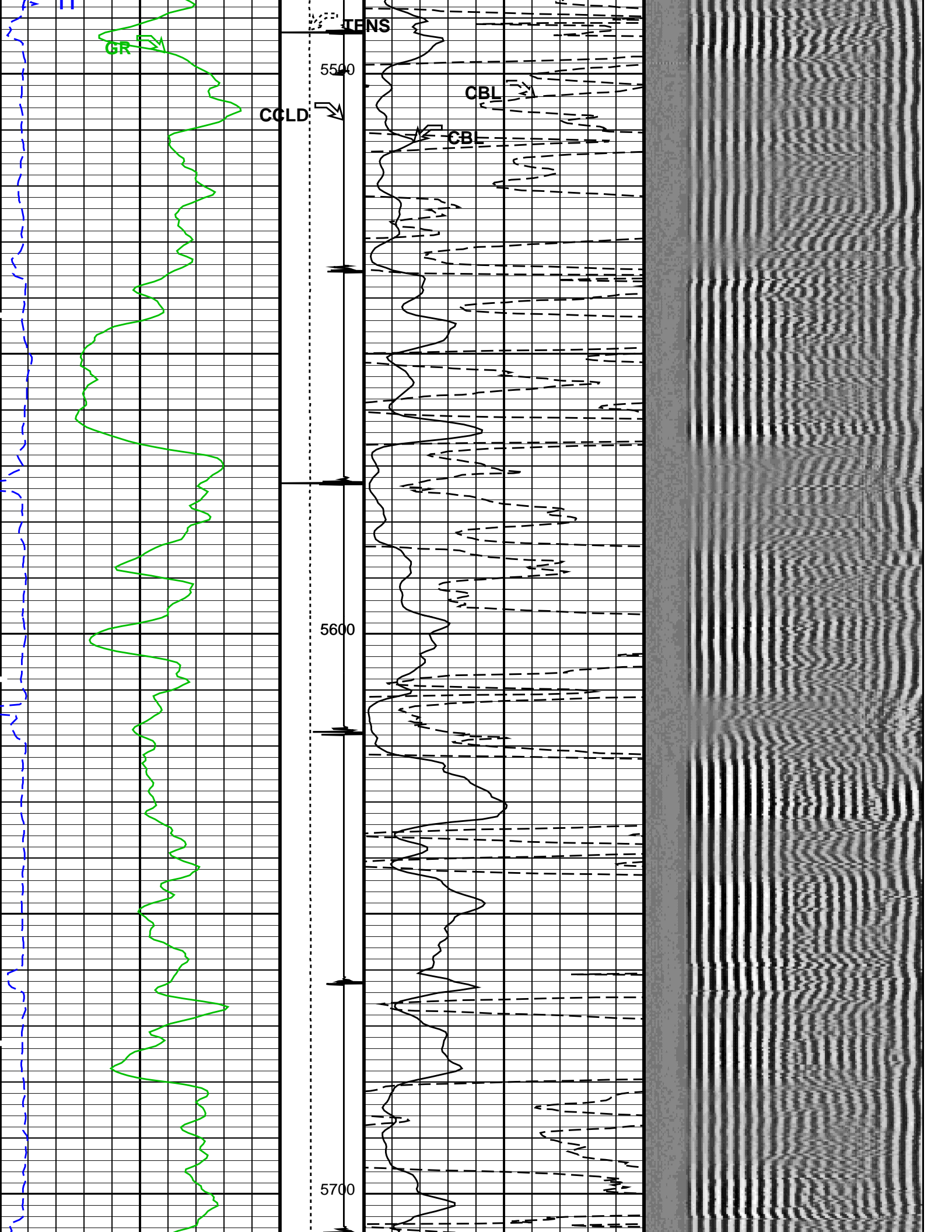


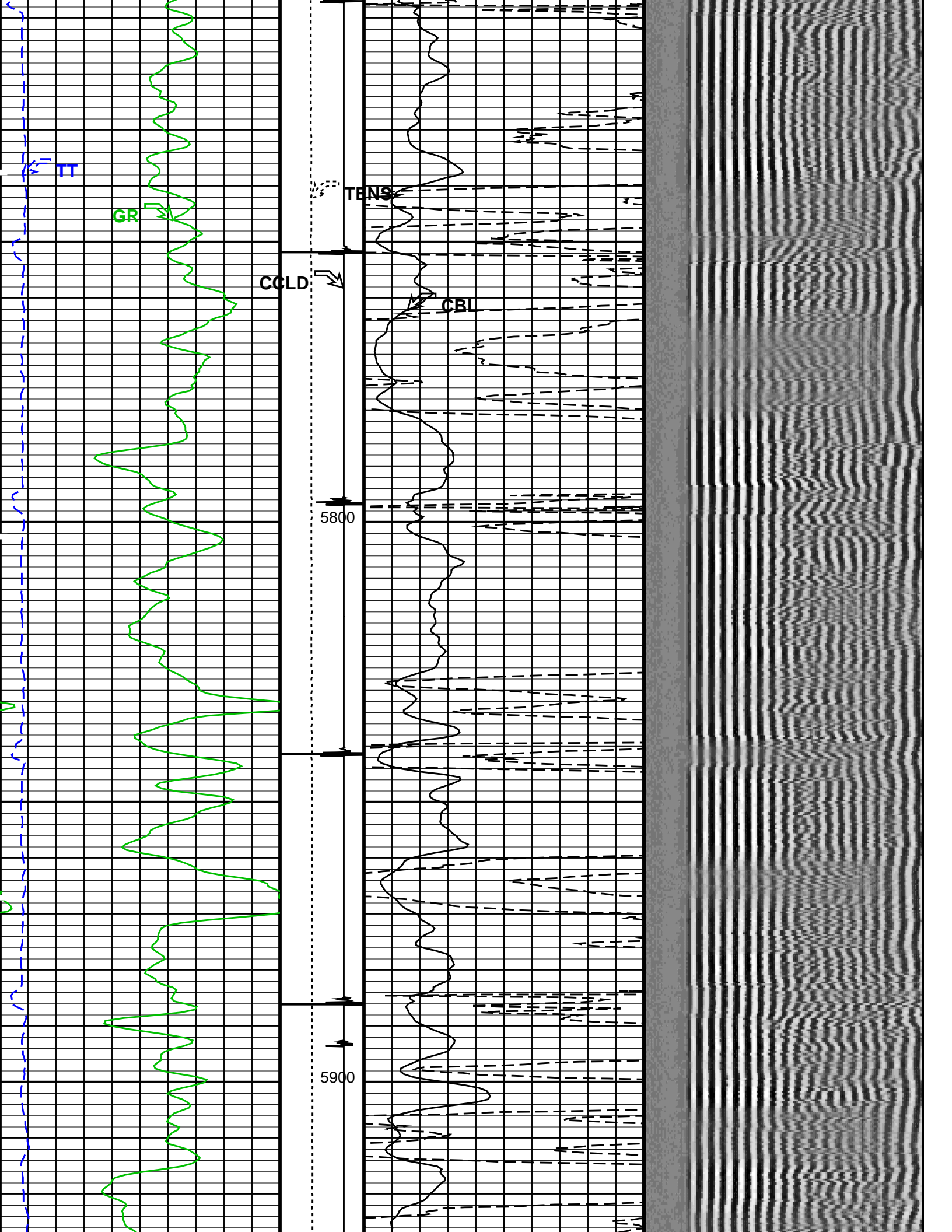


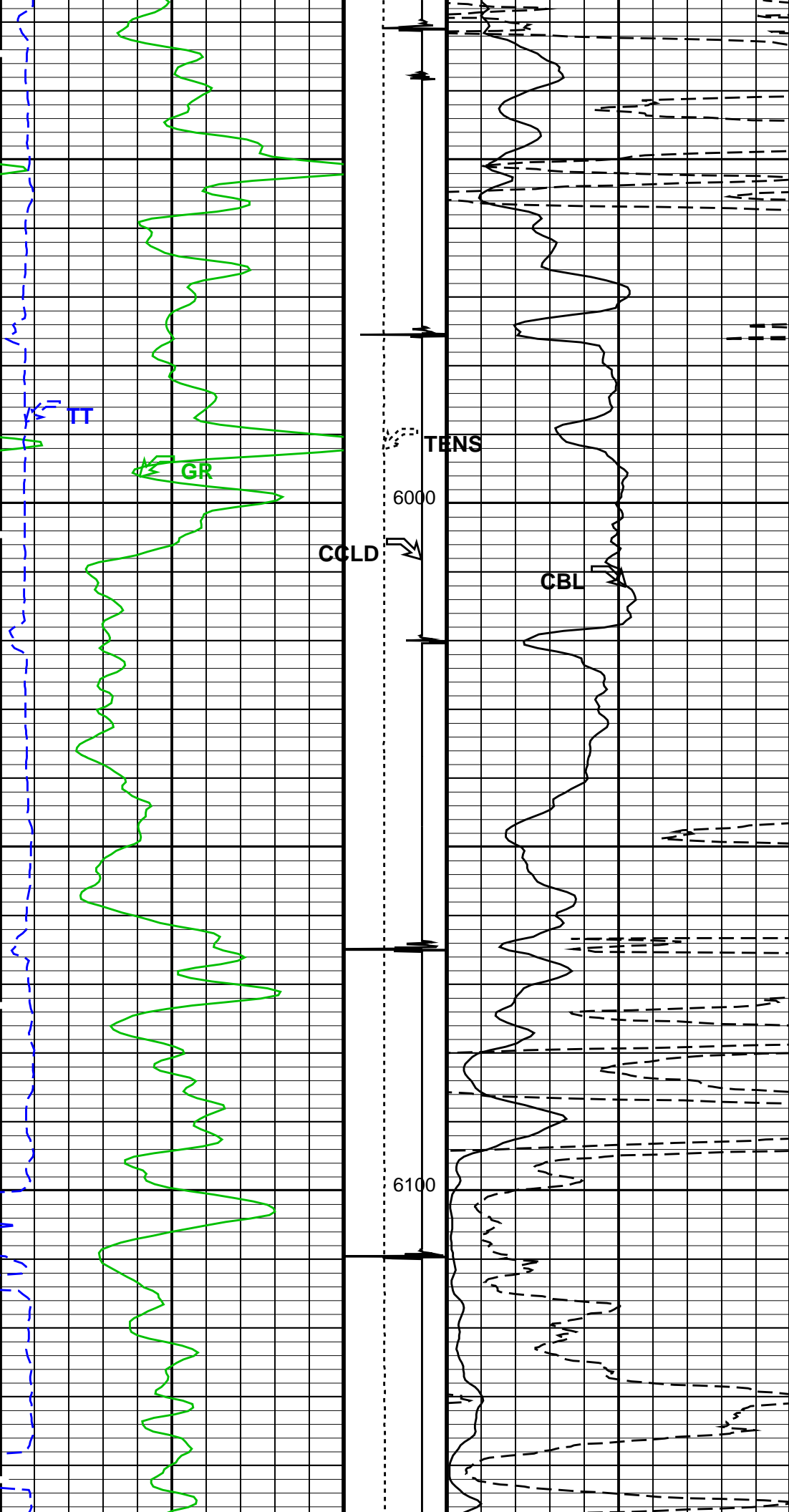


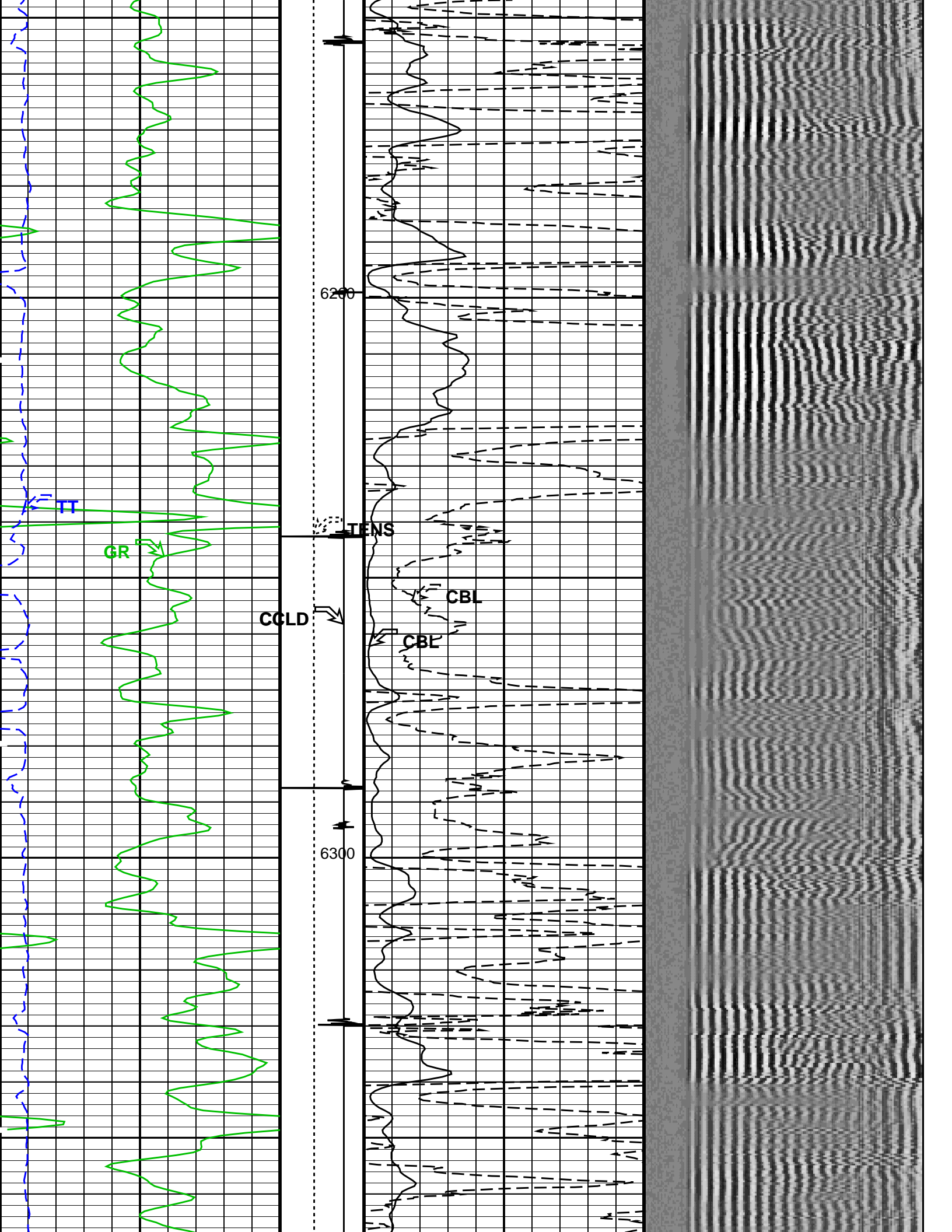


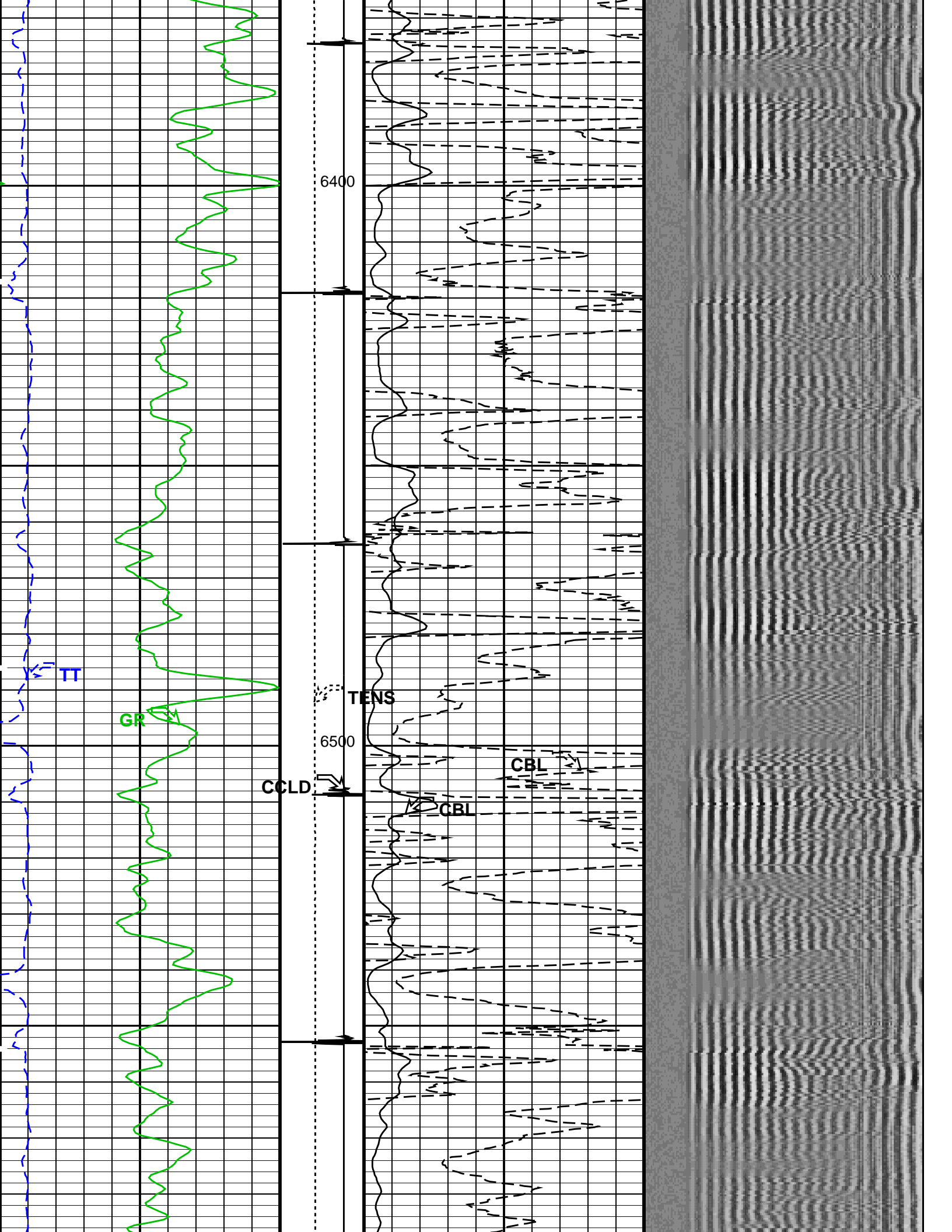


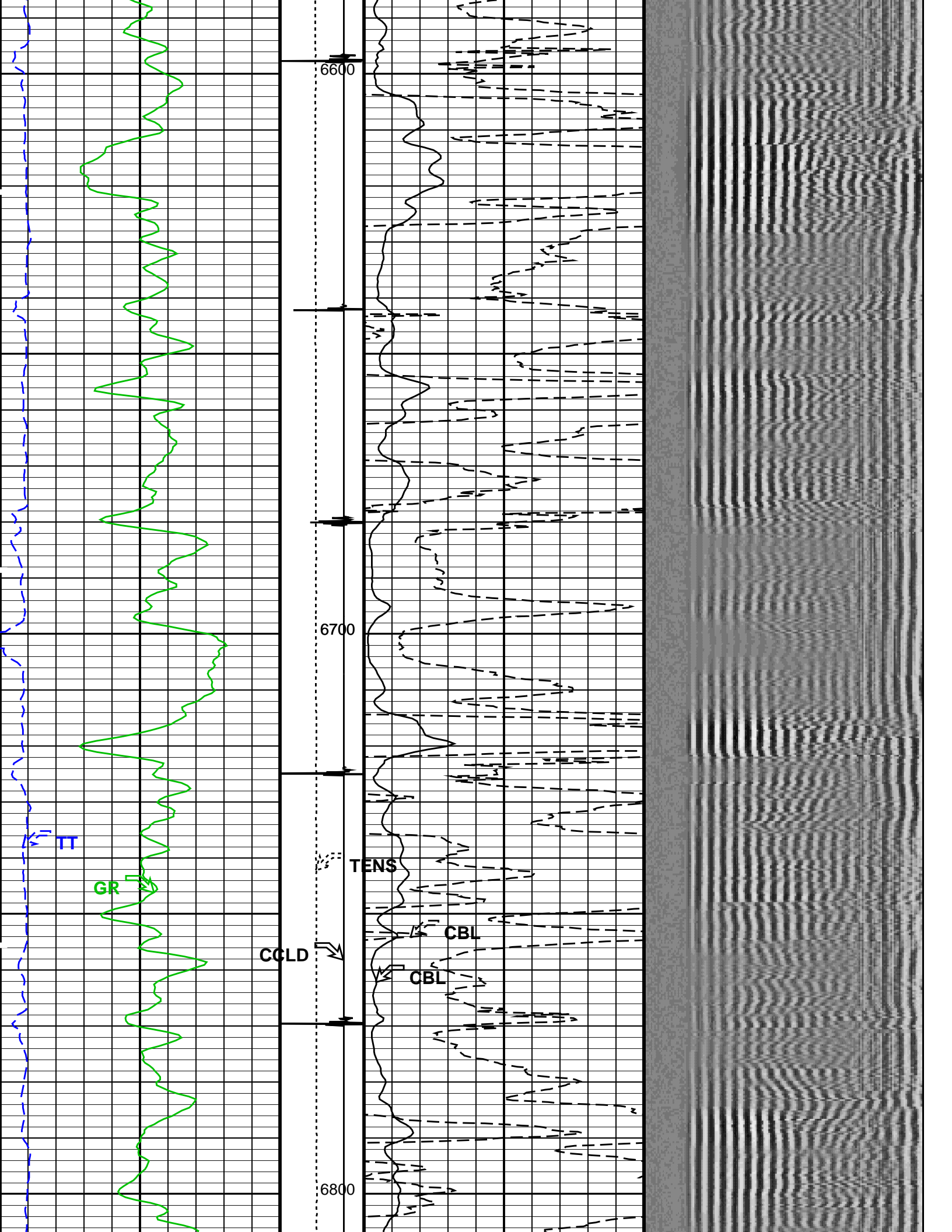


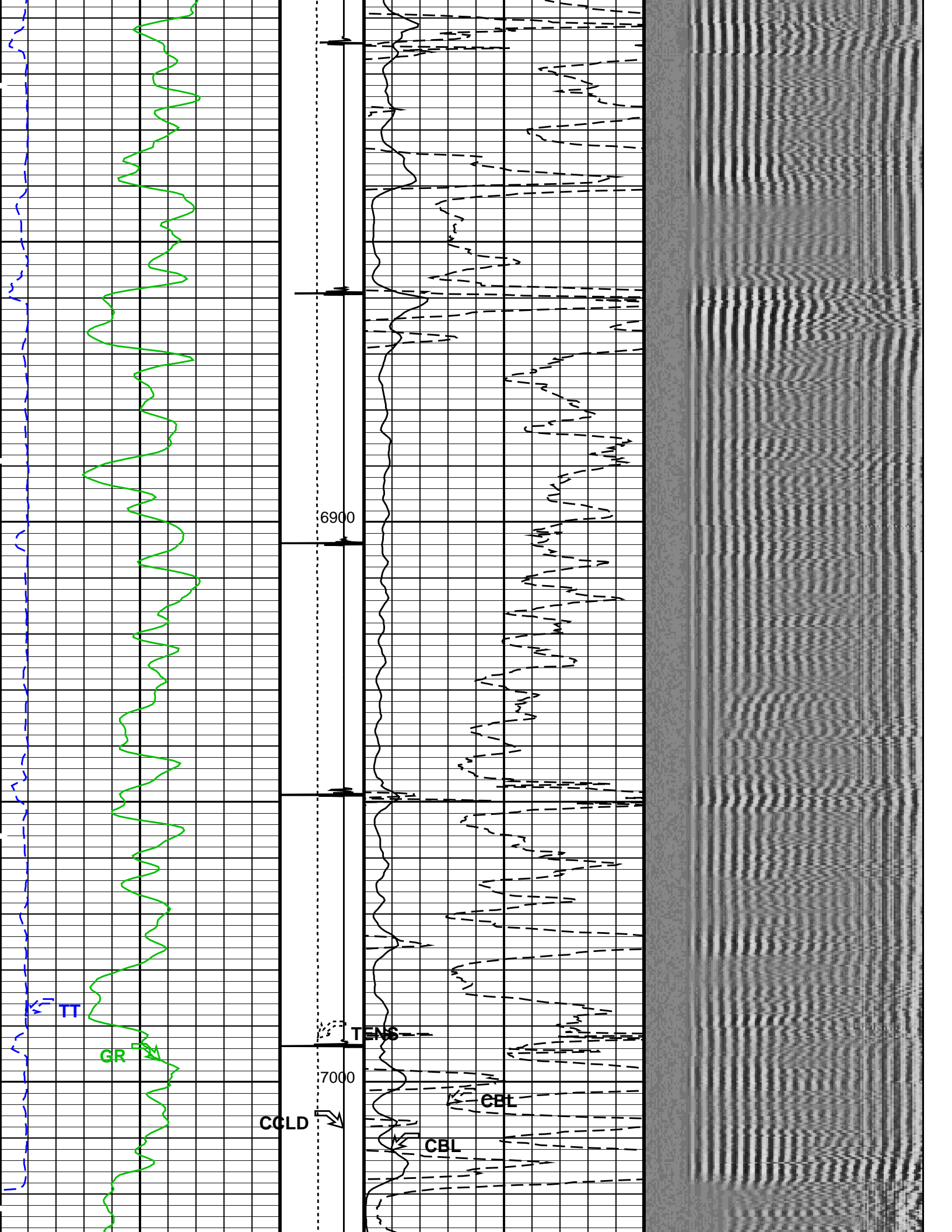


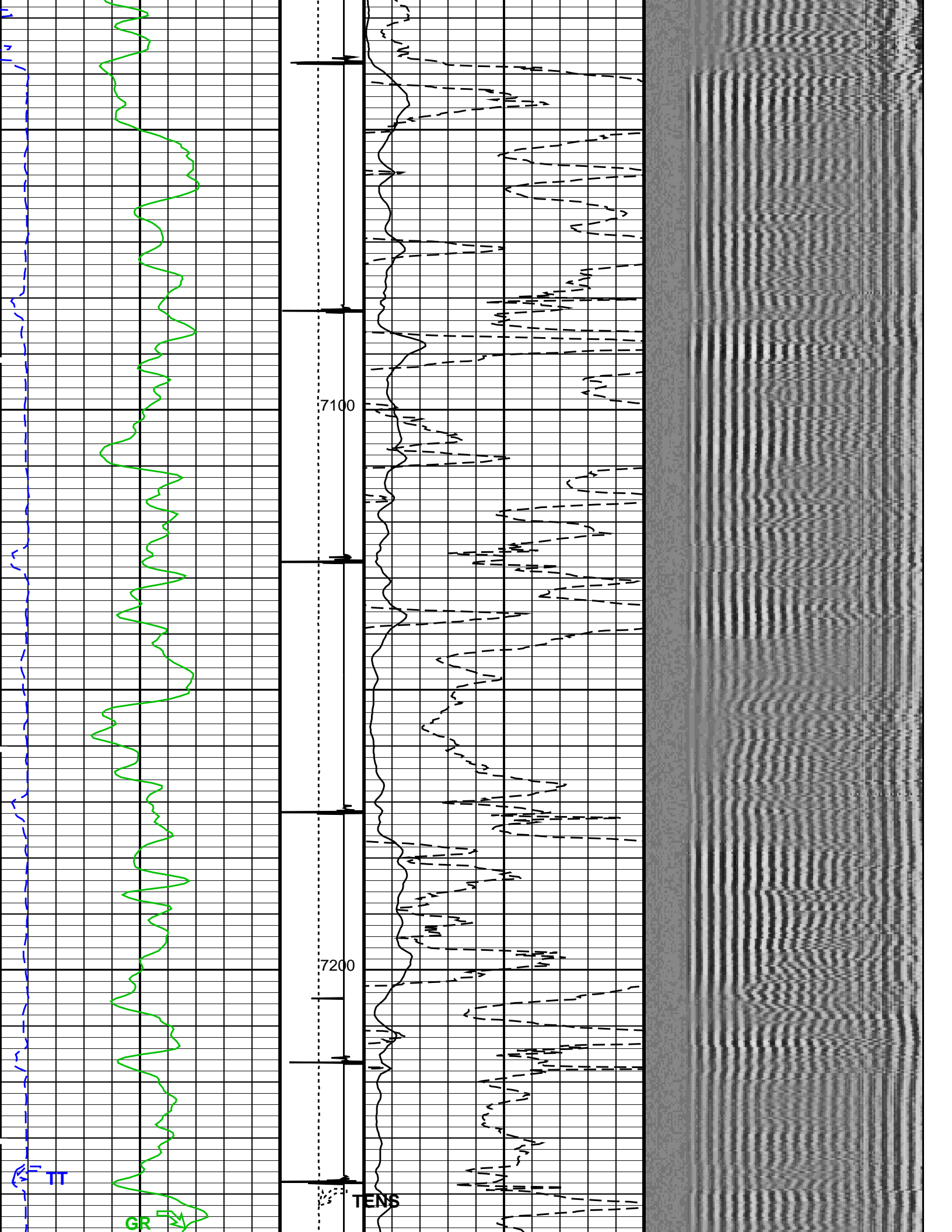


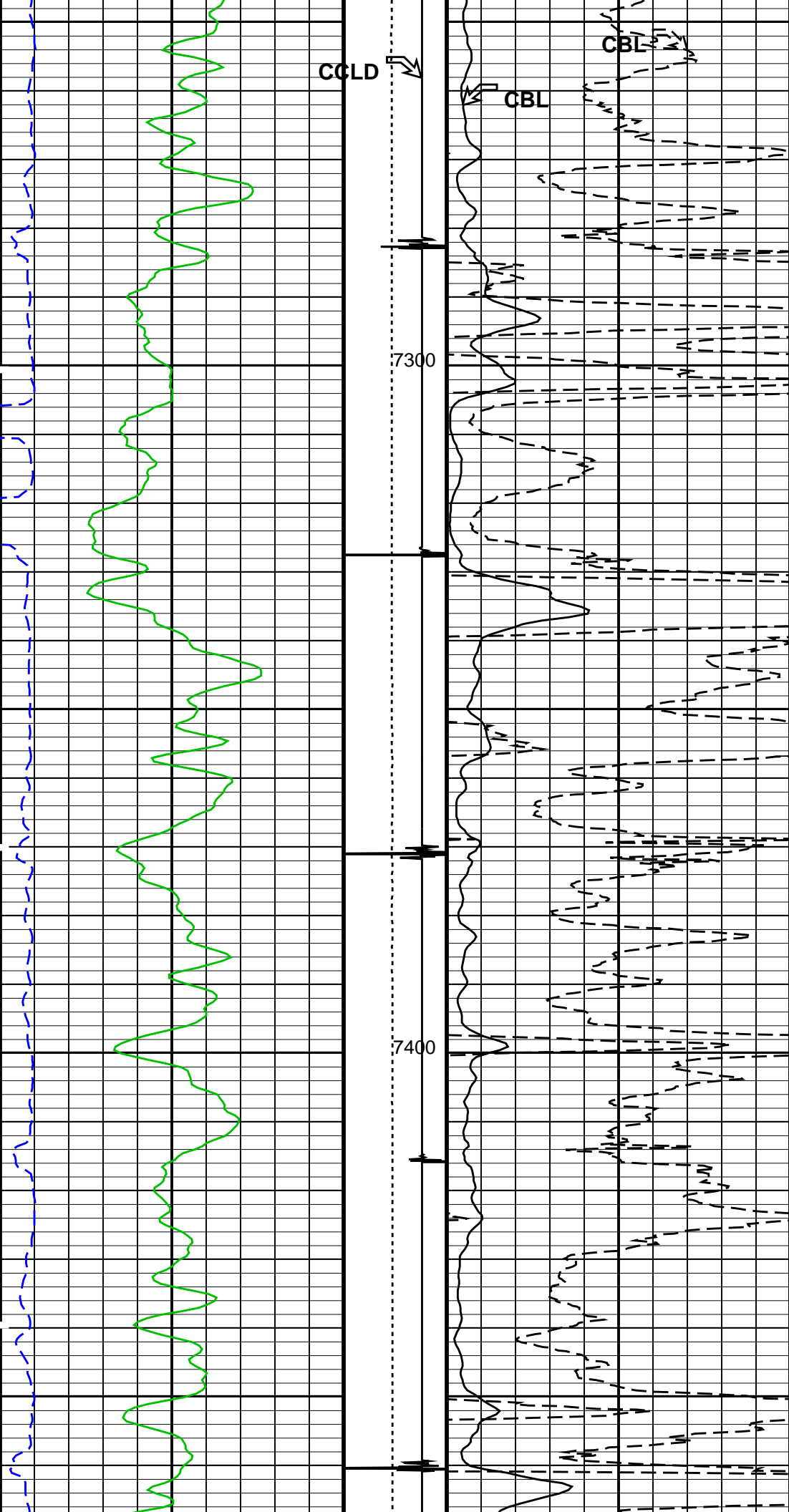


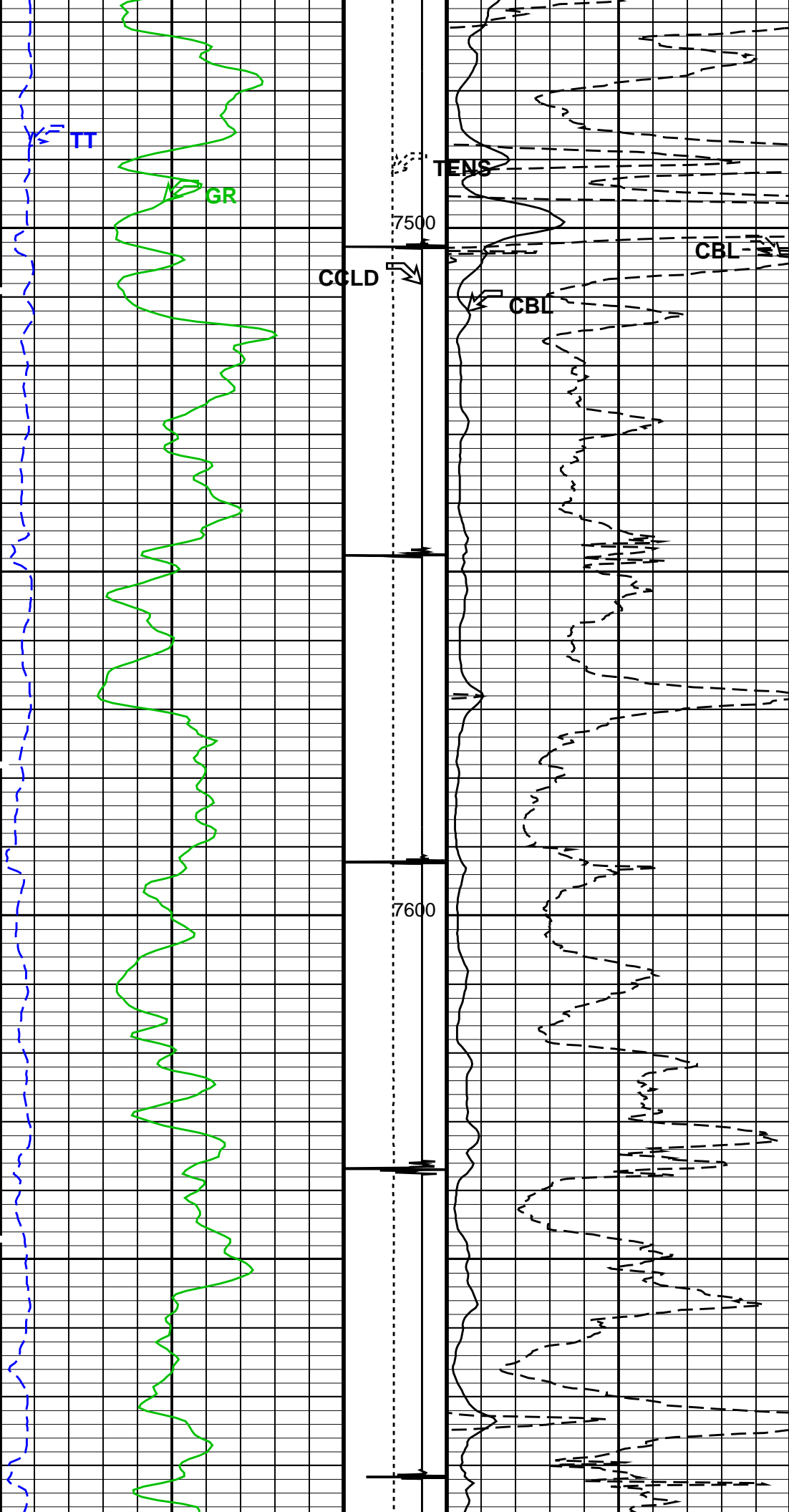


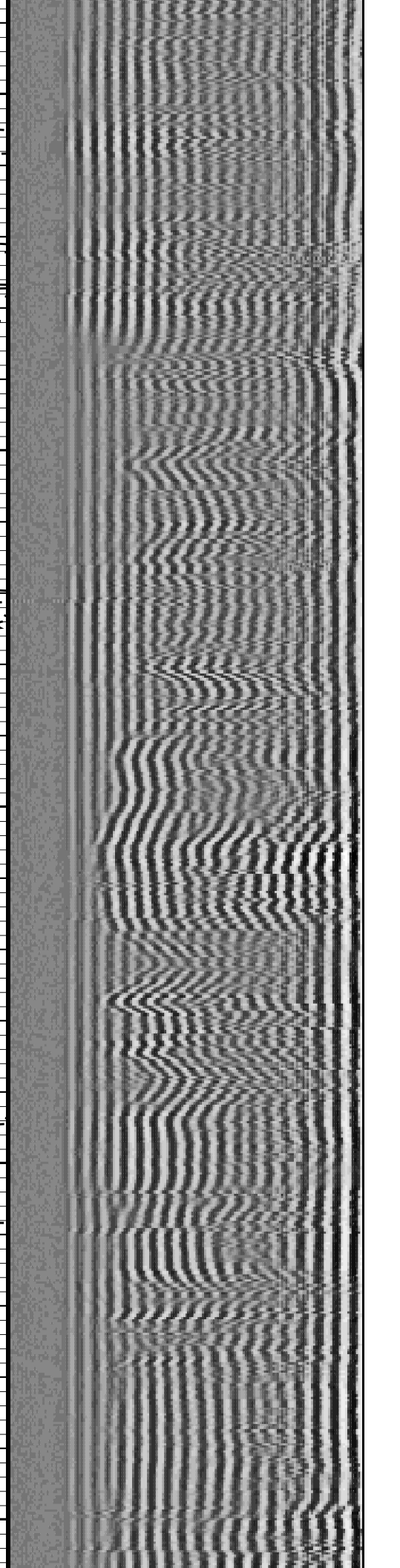
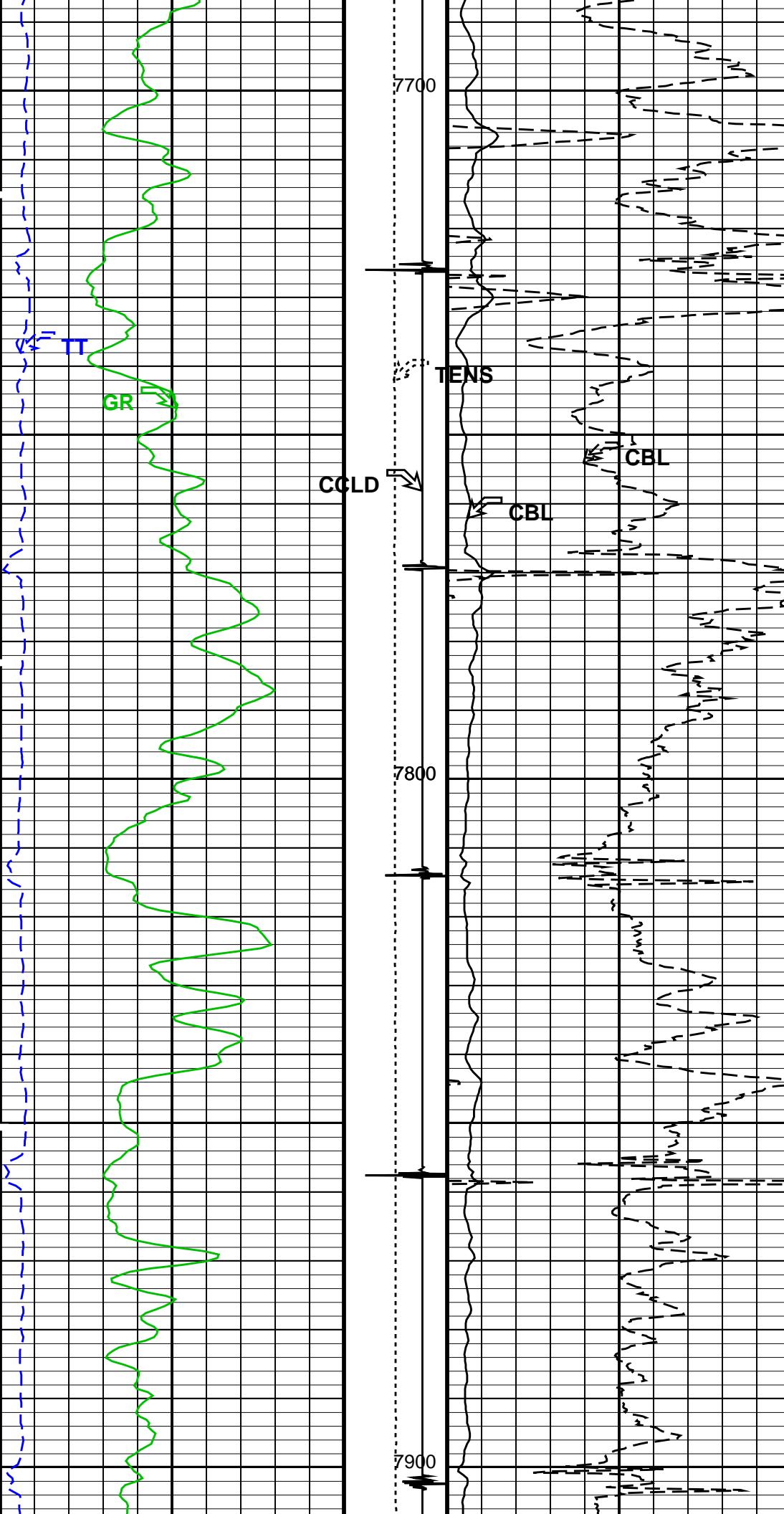


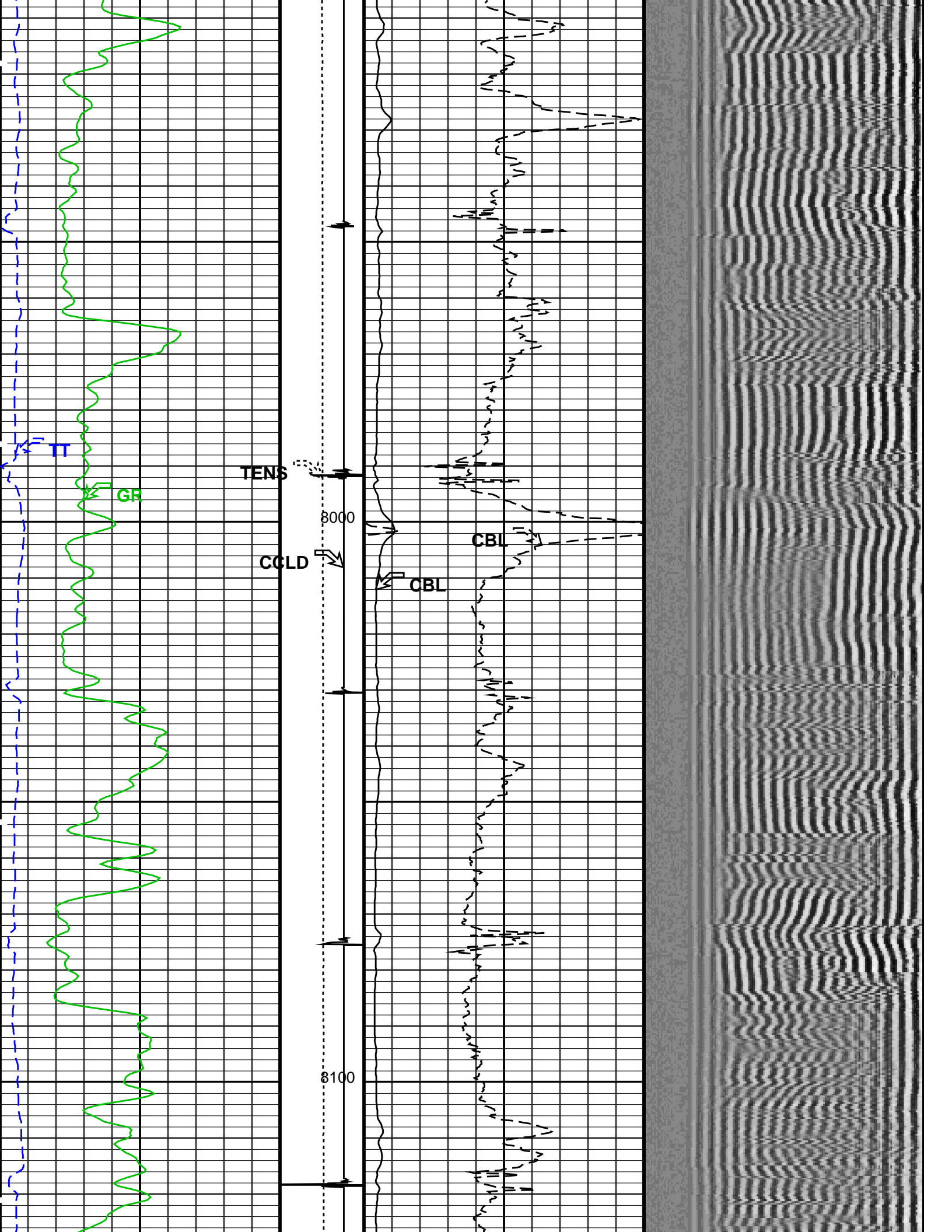


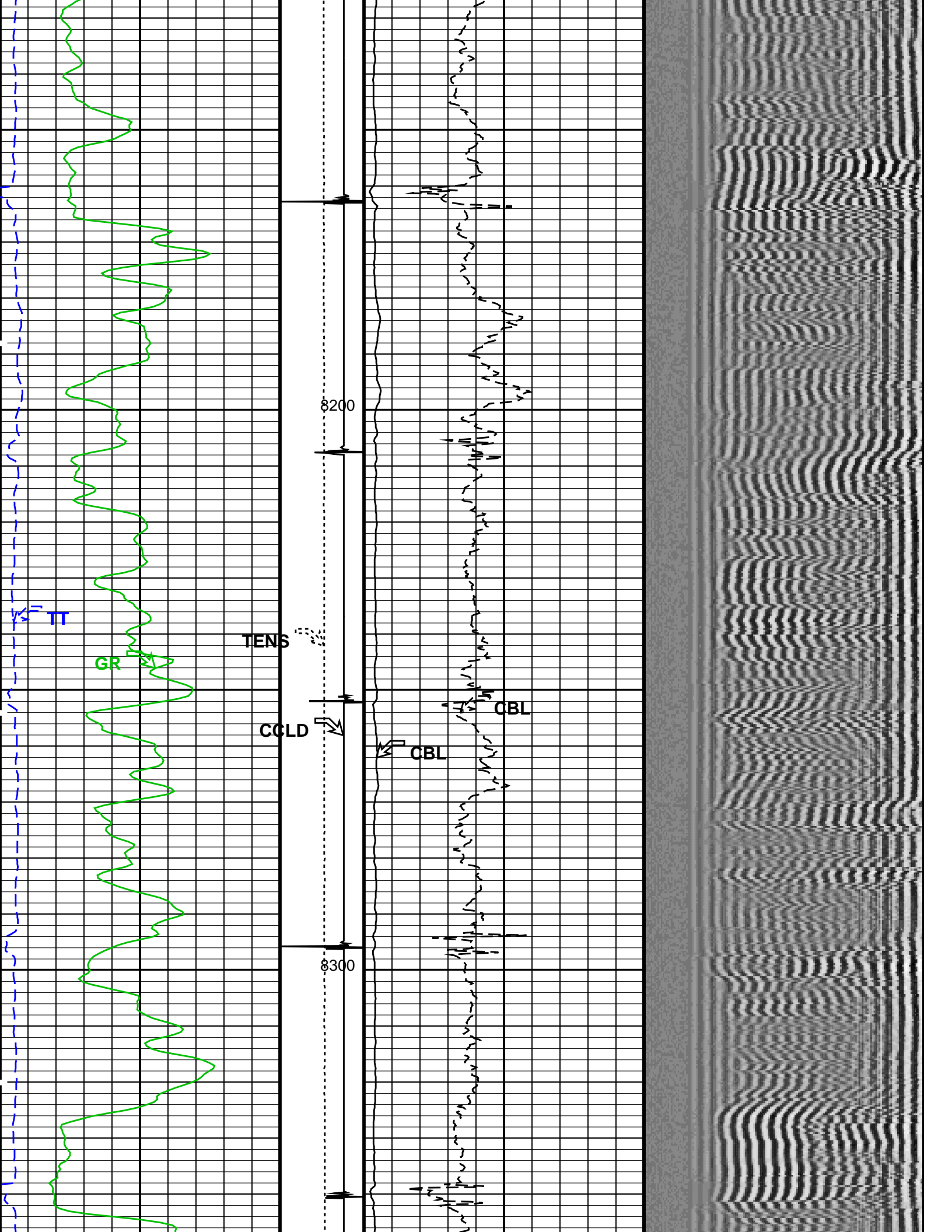


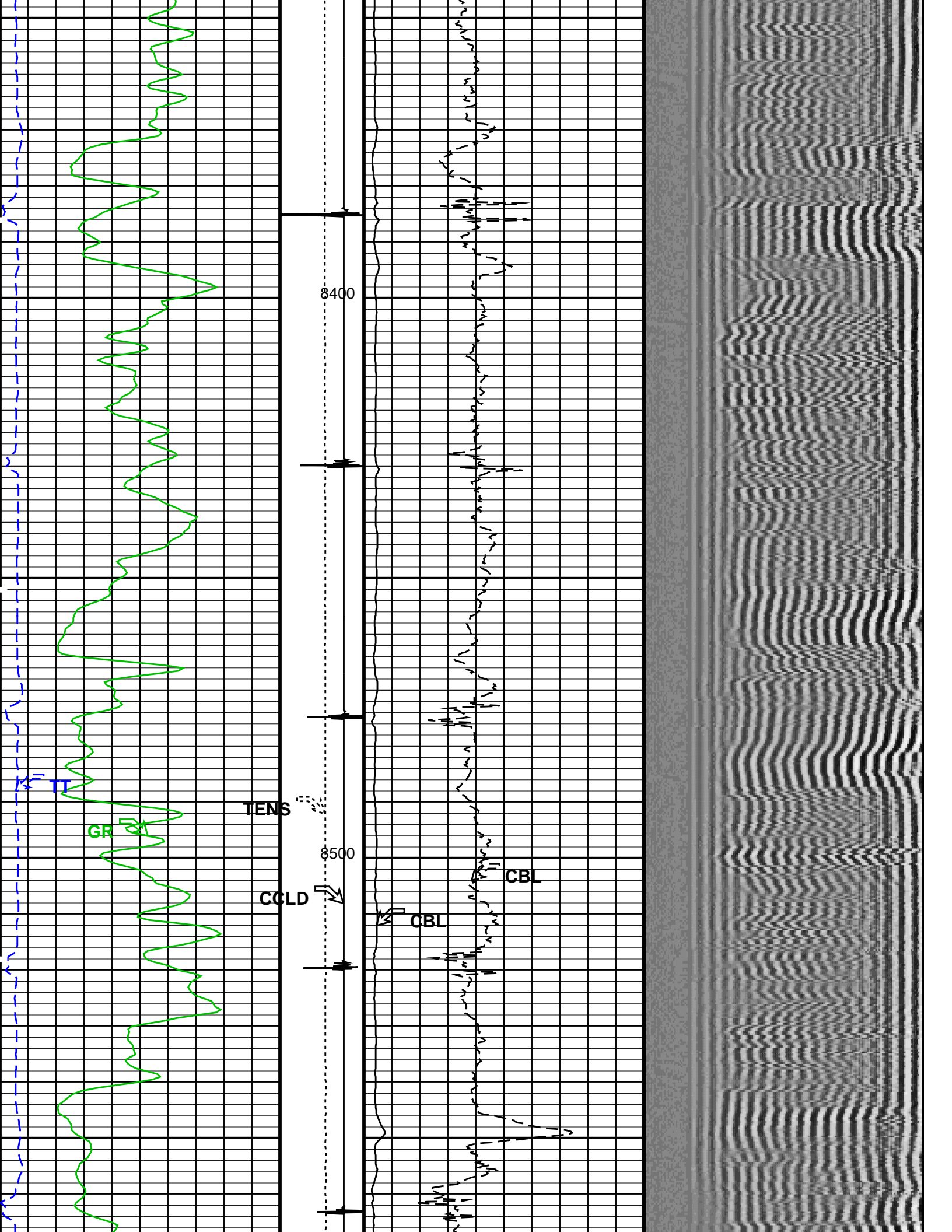


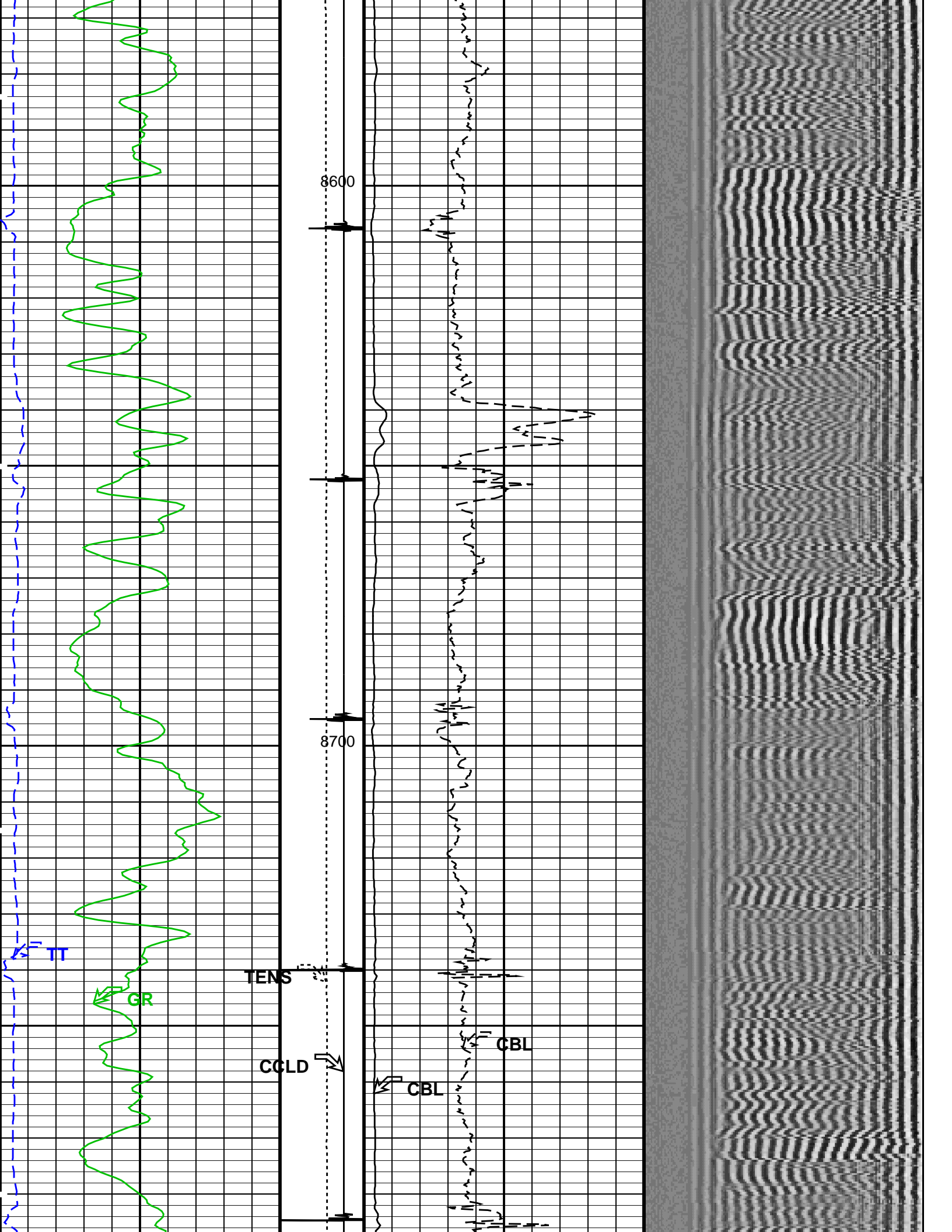


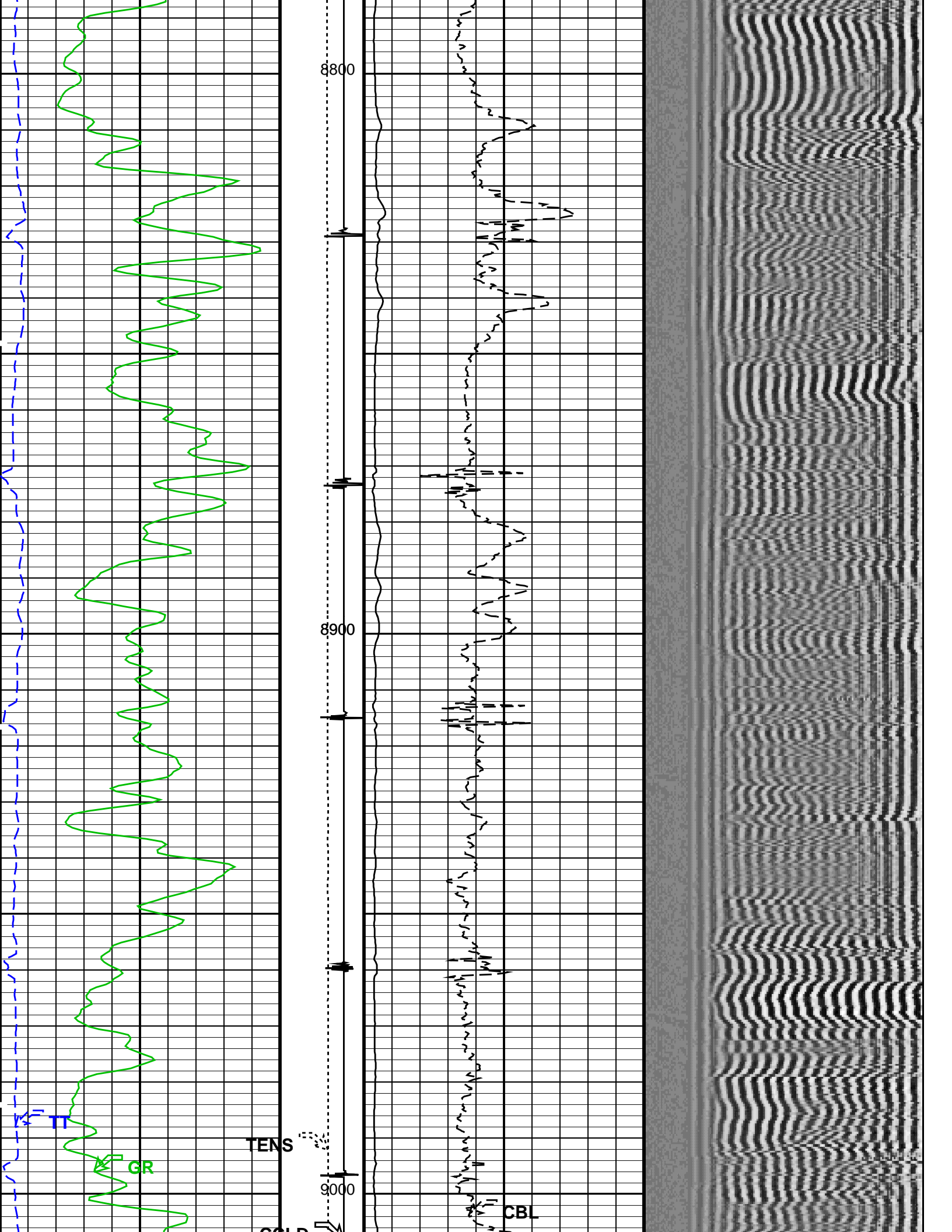


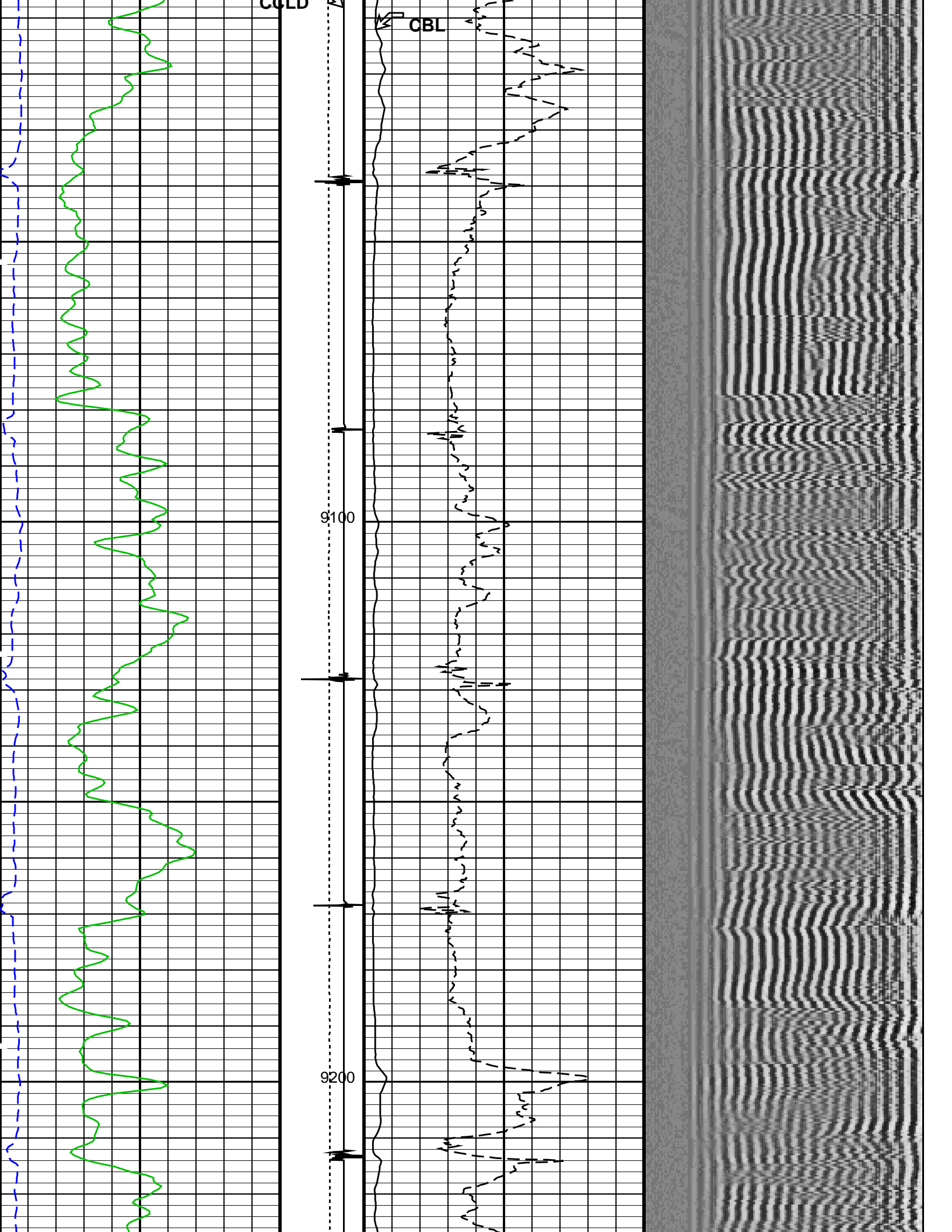


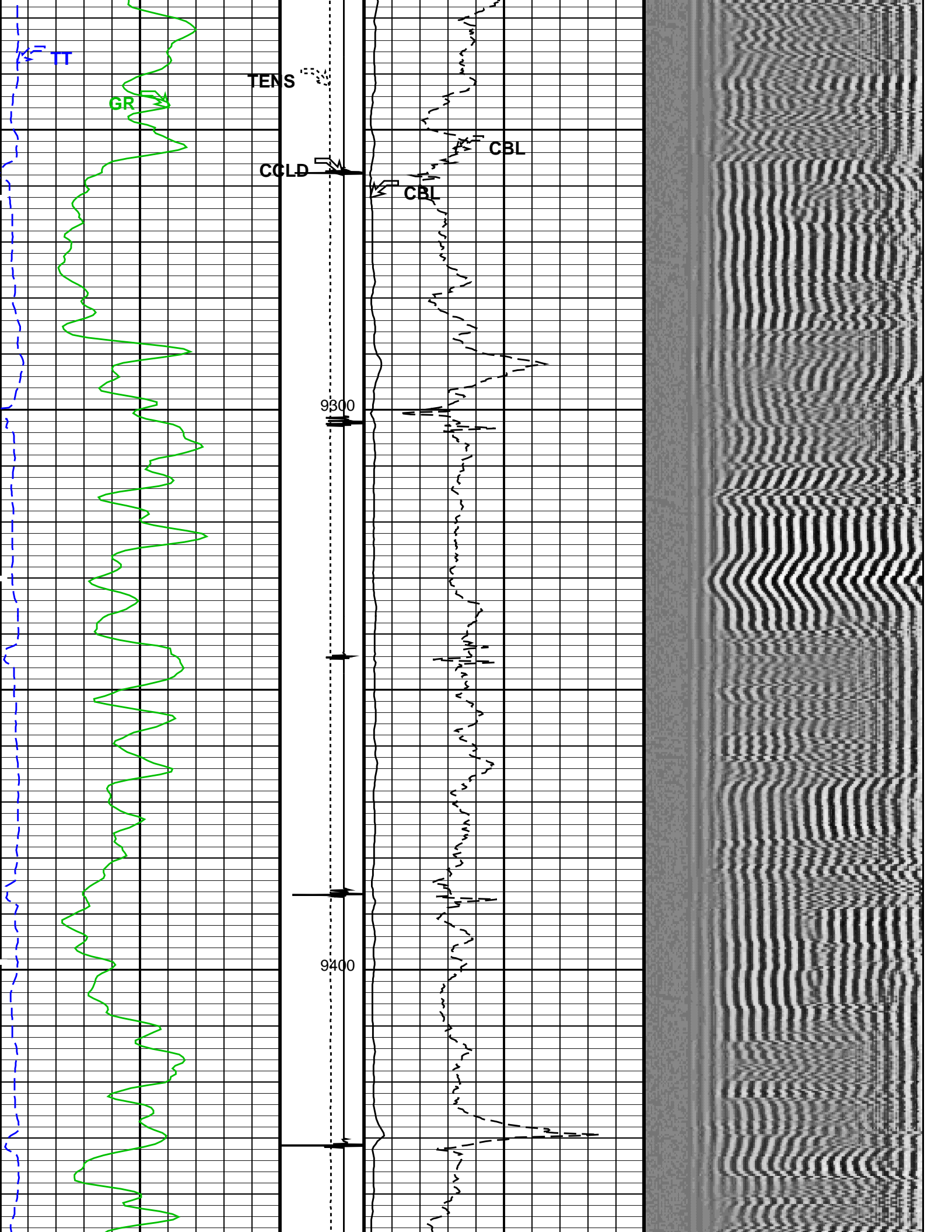


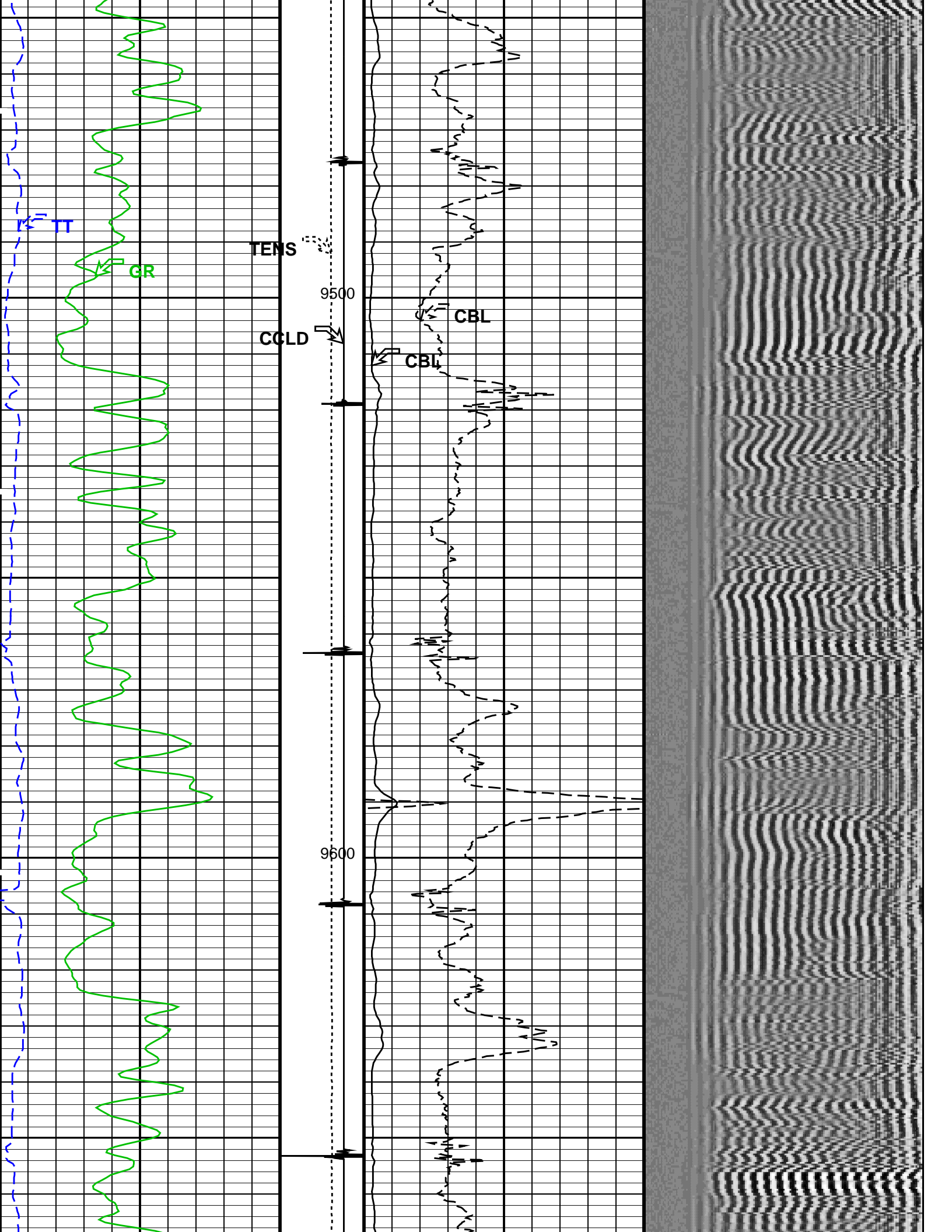


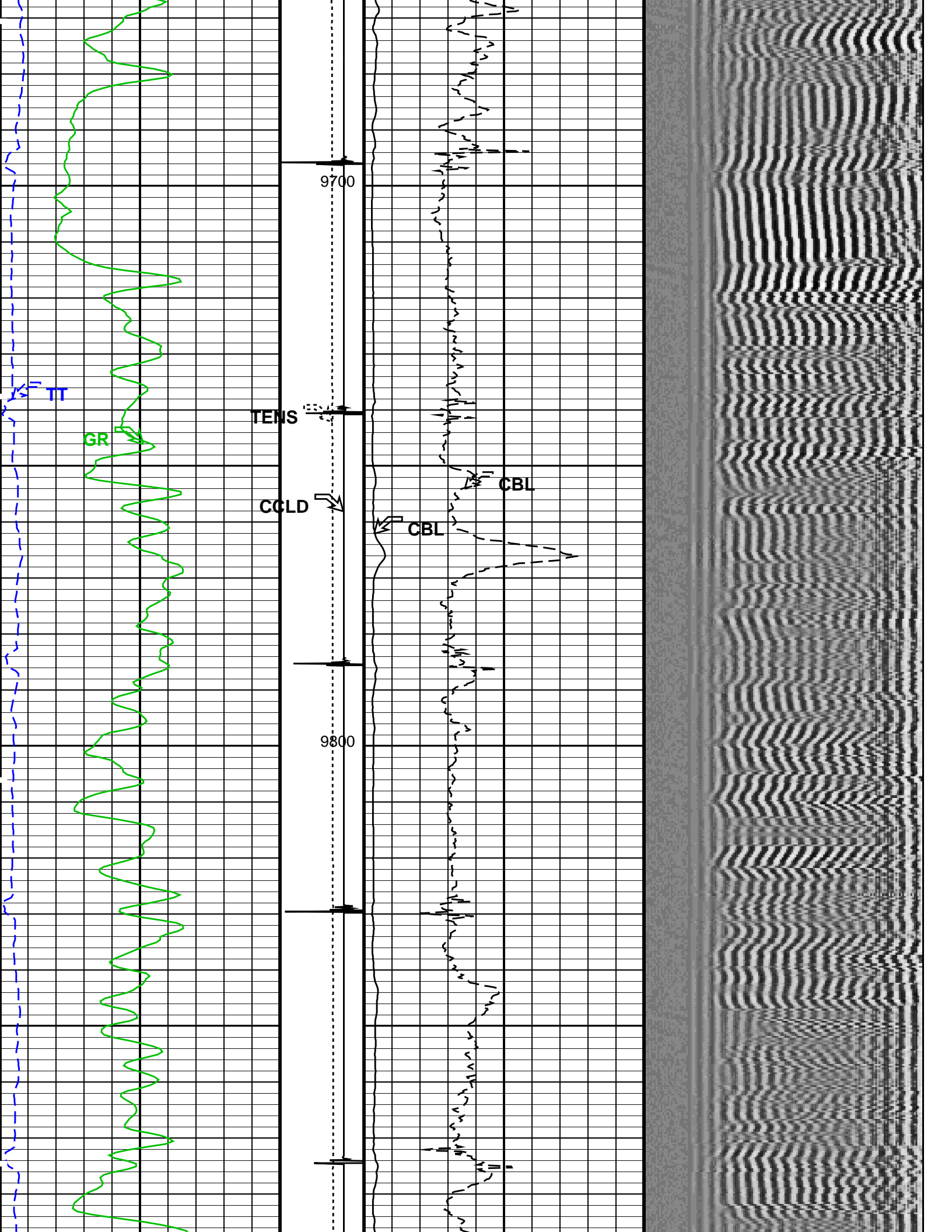


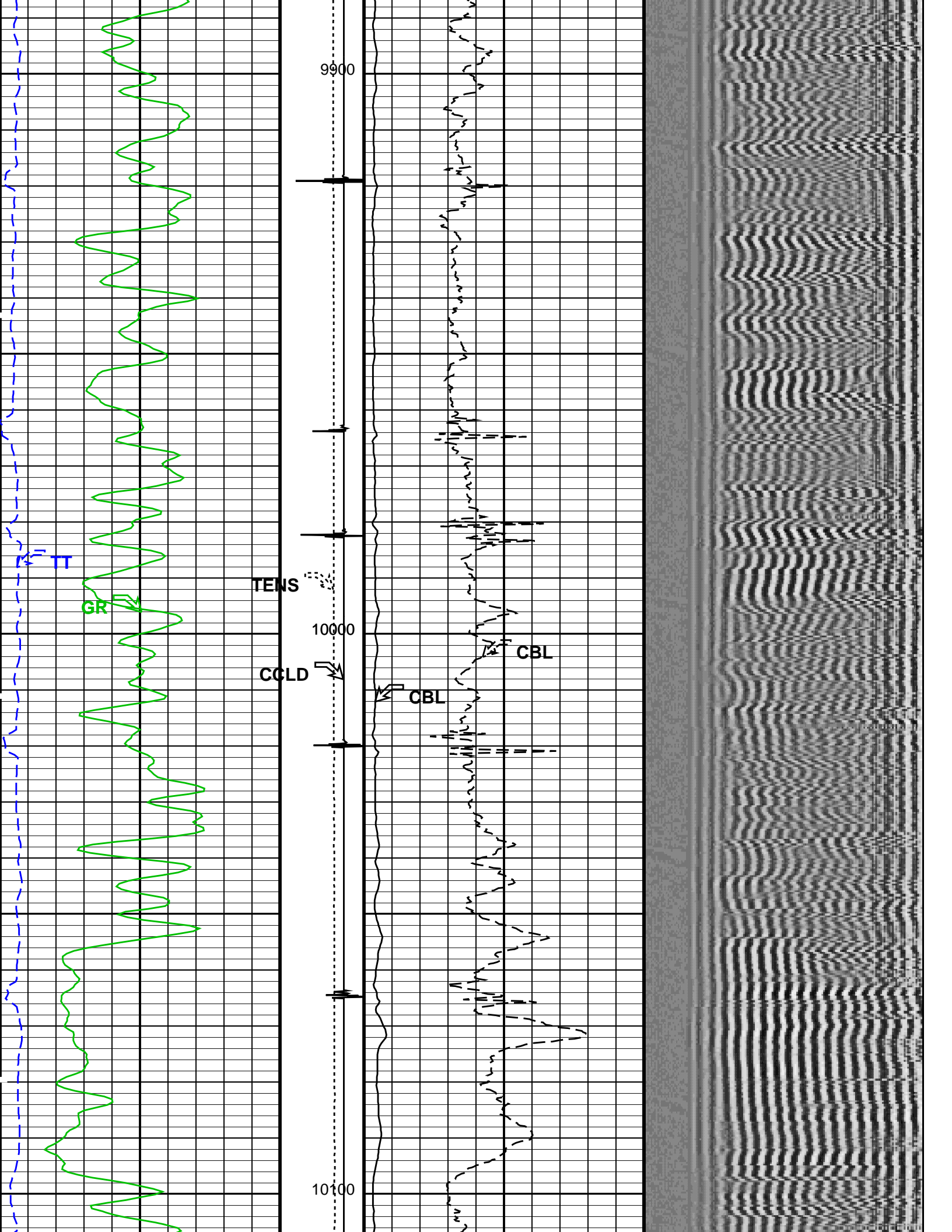


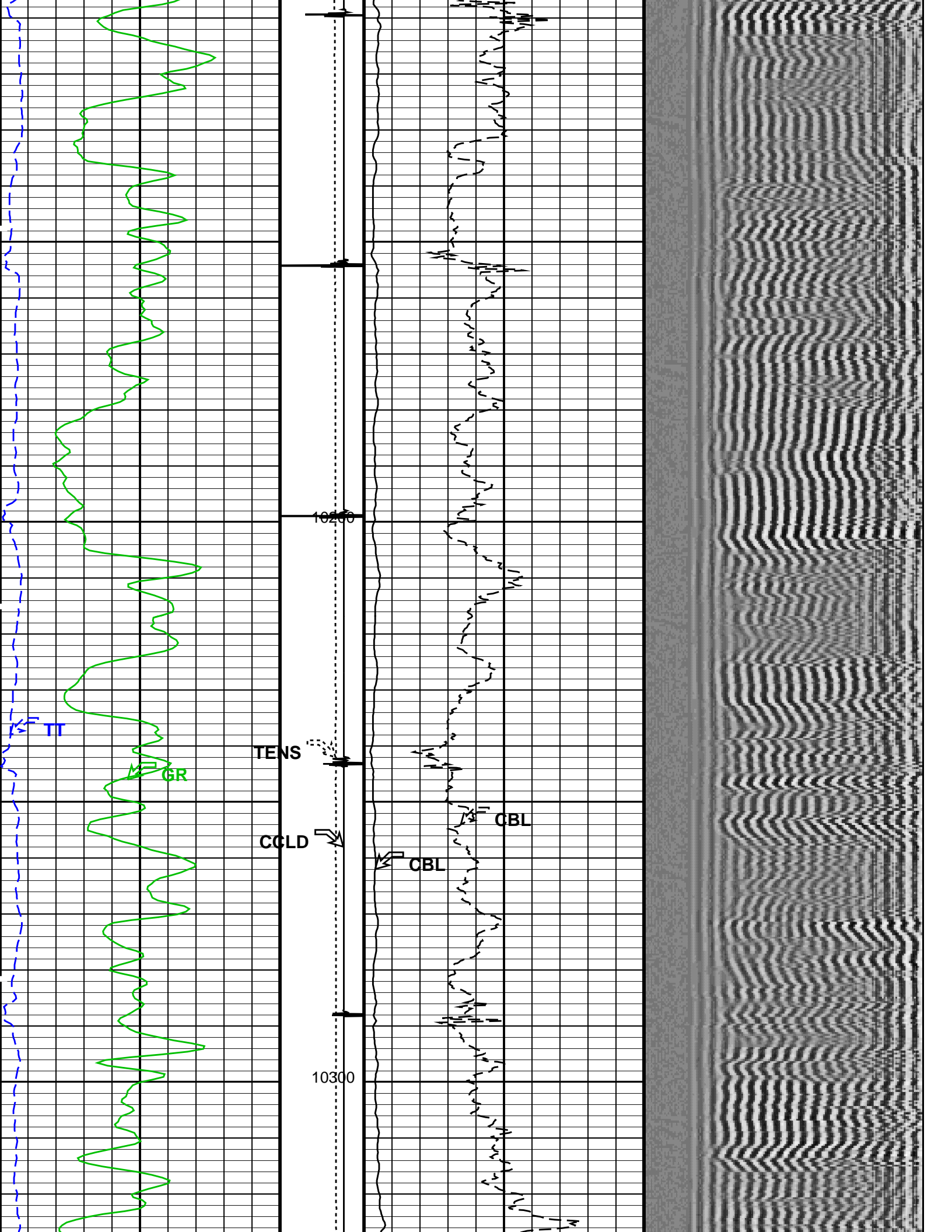


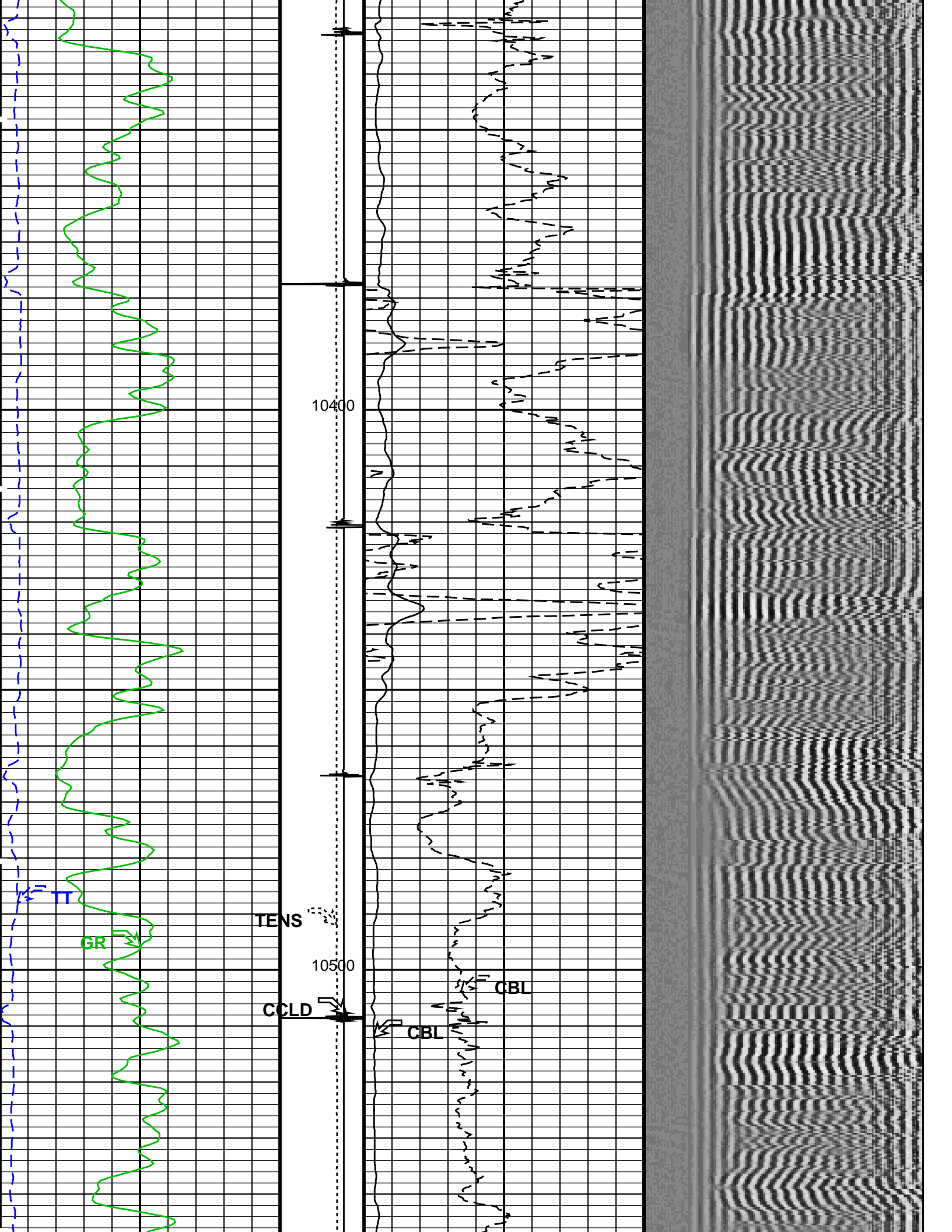


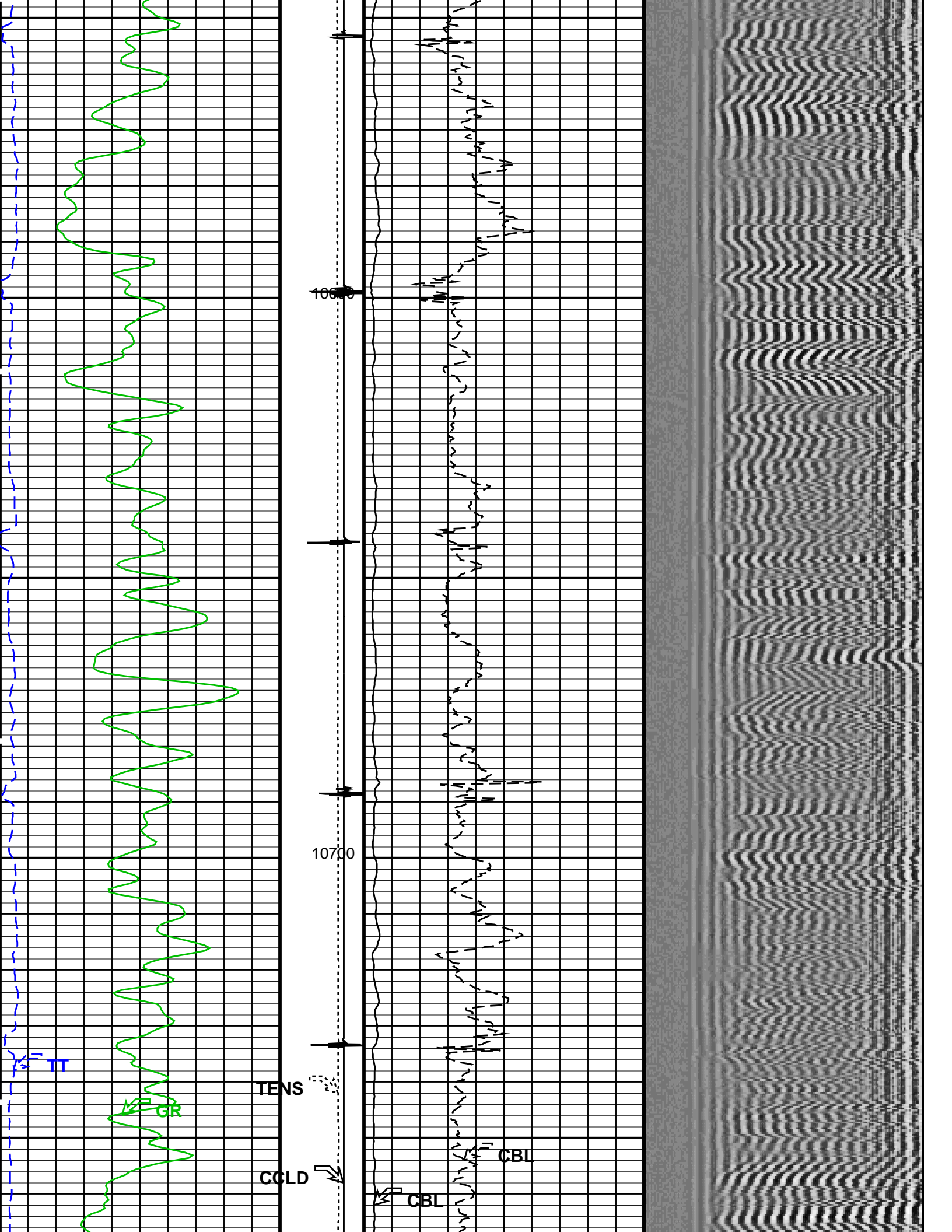


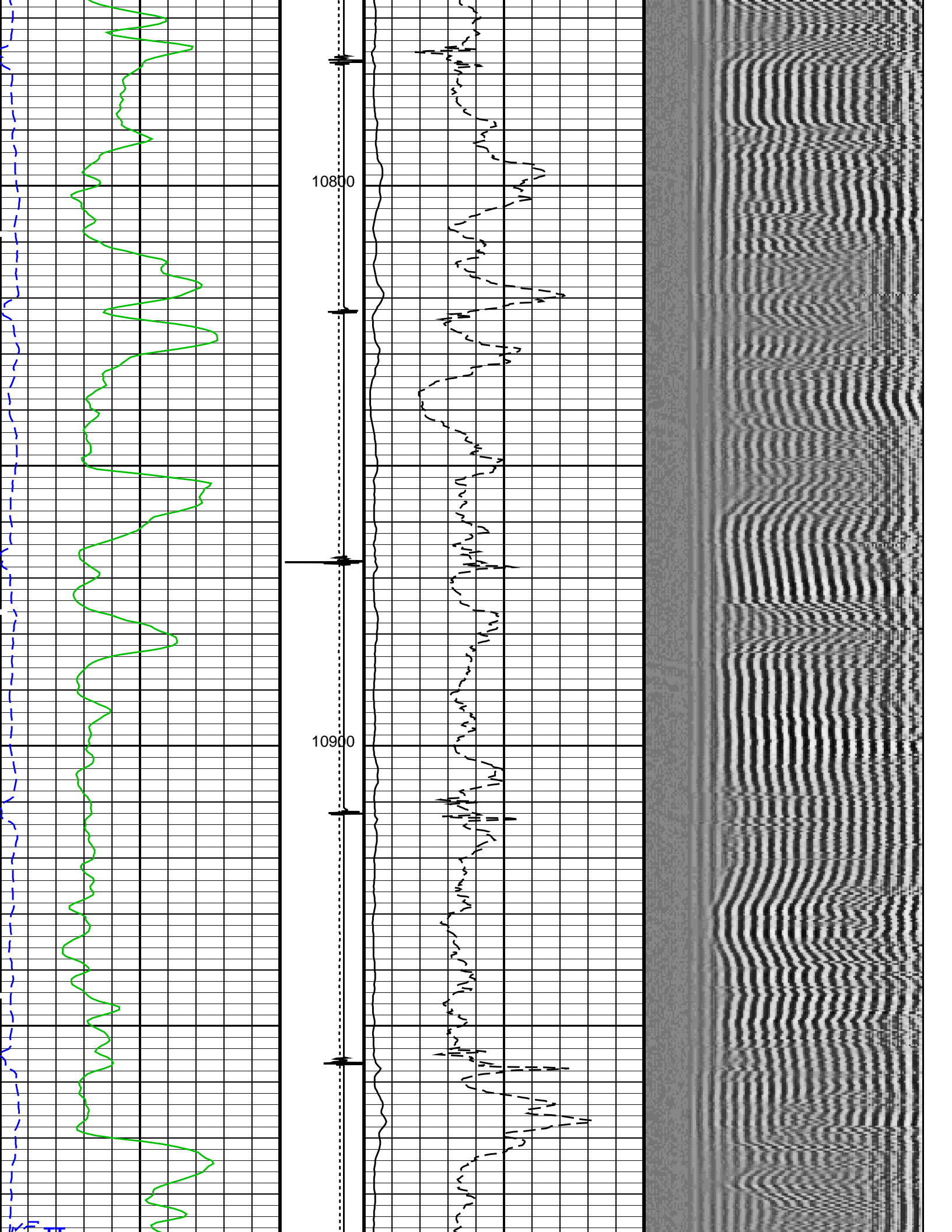


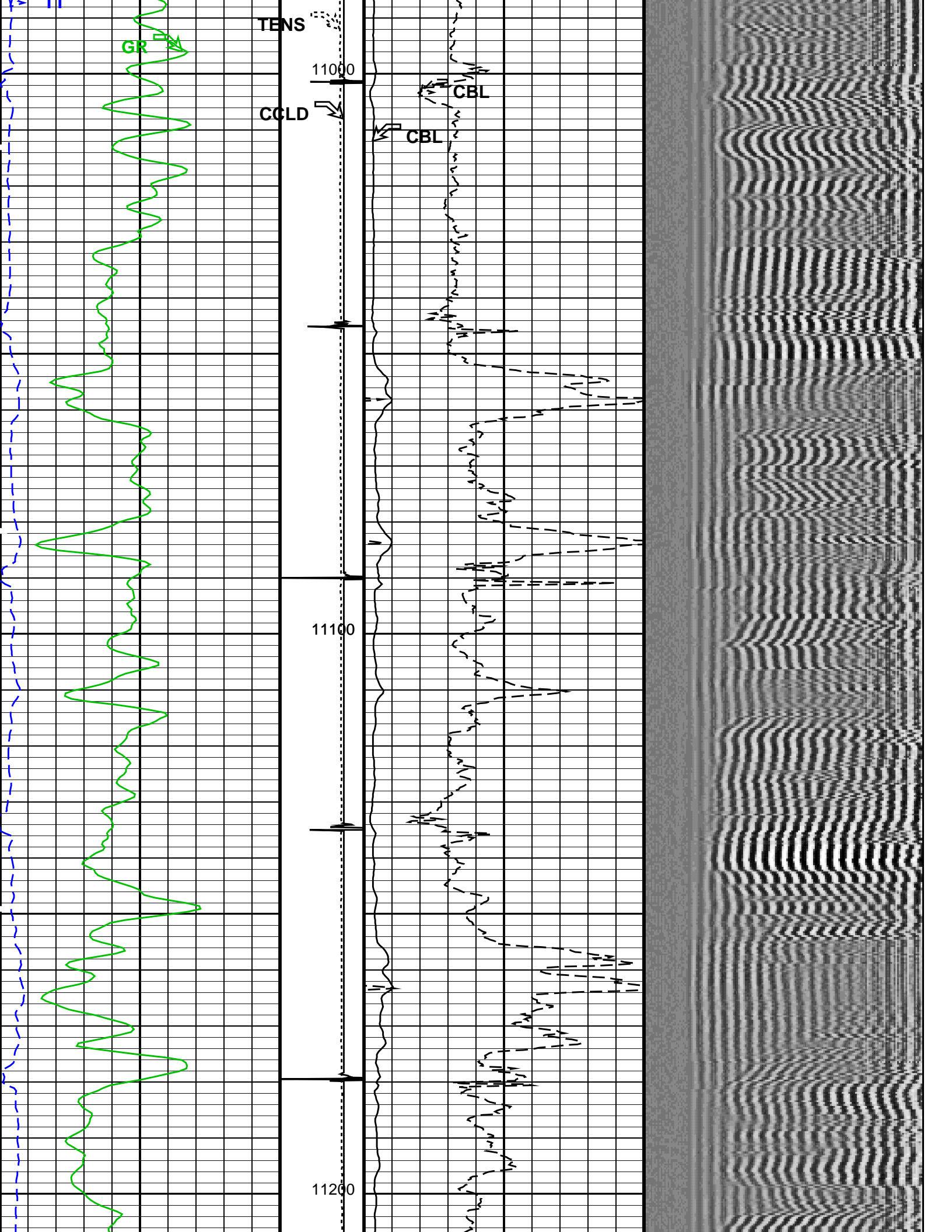


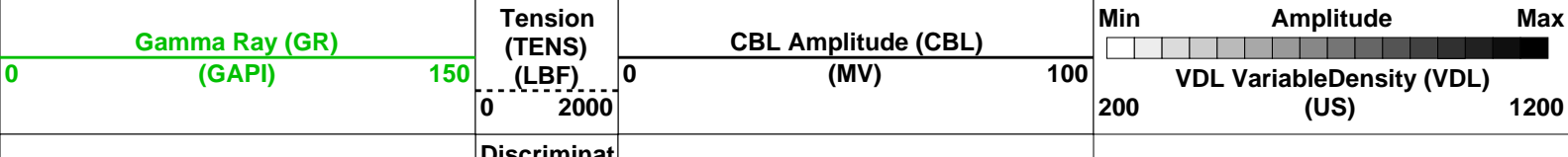
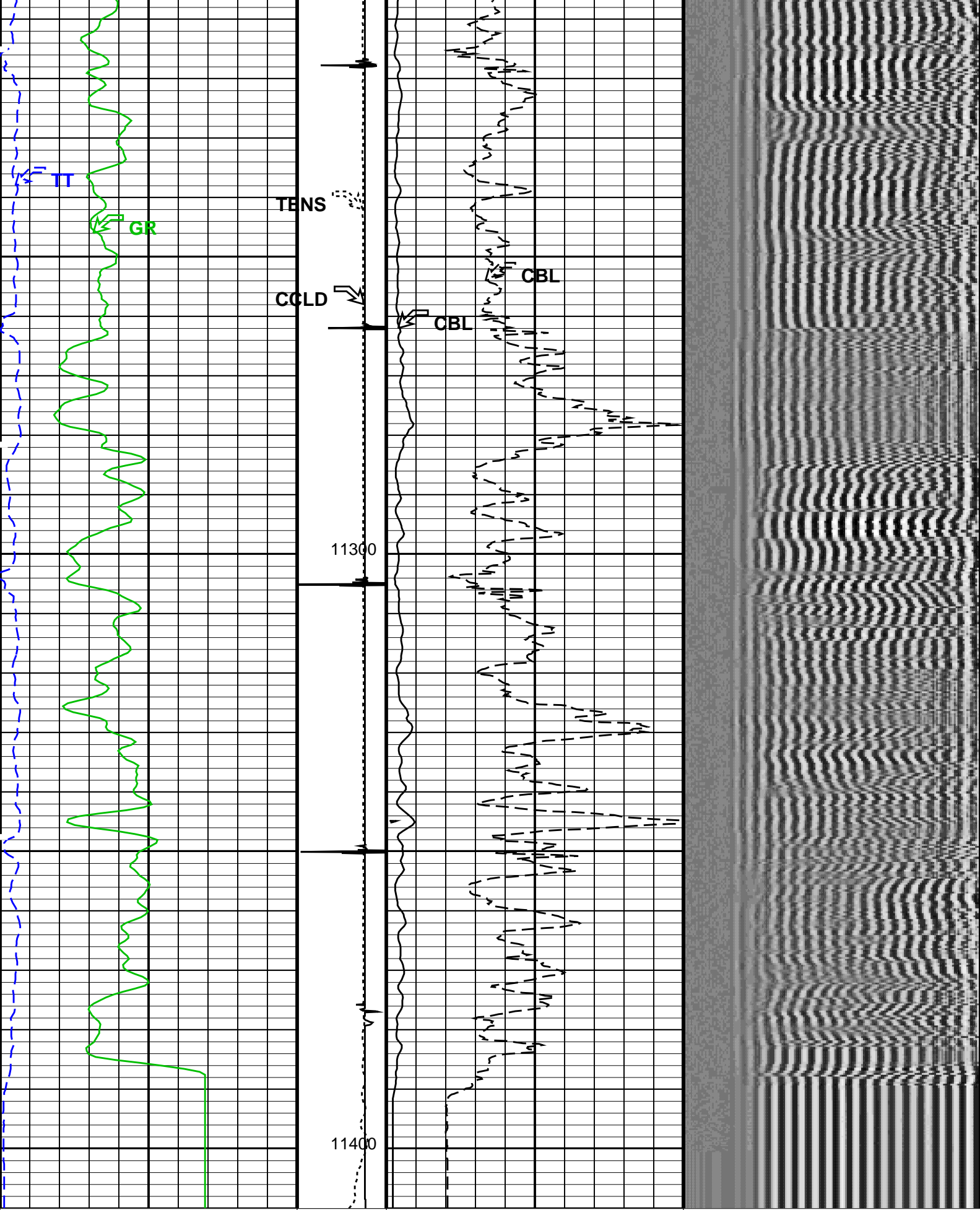












Transit Time (TT) 260 (US) 160		Discriminat ed CCL (CCLD) 3 (V) -1	CBL Amplitude (CBL) (MV) 0 10	
PIP SUMMARY				
Time Mark Every 60 S				
Format: CBL_VDL		Vertical Scale: 5" per 100'		Graphics File Created: 19-Jan-2014 18:31
OP System Version: 19C2-270				
SCMT-CB	19C2-270	PSPT	19C2-270	
<<<SCMT Cement Evaluation Information Summary>>>				
Sonde Serial Number	SCMS-CB 8150			
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	18-JAN-2013			
CBL Correction Factor	0.0714244	CBL Adjustment Factor (CBAF)	0.700000	
MAP 1 Correction Factor	0.105729	MAP Adjustment Factor (MPAF)	1.0	
MAP 2 Correction Factor	0.0974552			
MAP 3 Correction Factor	0.0933426			
MAP 4 Correction Factor	0.0893609			
MAP 5 Correction Factor	0.0787527			
MAP 6 Correction Factor	0.0753900			
MAP 7 Correction Factor	0.0917553			
MAP 8 Correction Factor	0.0903068			
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	System and Miscellaneous	Acoustic Impedance of Cement	6.8	MRAY
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
PP		Playback Processing	RECOMPUTE	
TD		Total Depth	11398	FT

Input DLIS Files

DEFAULT	SCMT_PSP_050PUP	FN:47	PRODUCER	19-Jan-2014 04:45	11410.0 FT	-15.5 FT
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Output DLIS Files

DEFAULT	SCMT_PSP_002PUP	FN:1	PRODUCER	19-Jan-2014 18:31		
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Schlumberger

REPEAT ANALYSIS CBL VDL

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC Well: SG 8506B-34 (E34 496)

Input DLIS Files

DEFAULT	SCMT_PSP_047LUP	FN:44	PRODUCER	18-Jan-2014 12:57	7318.5 FT	7045.5 FT
DEFAULT	SCMT_PSP_050PUP	FN:47	PRODUCER	18-Jan-2014 16:09	11410.0 FT	-15.5 FT

Output DLIS Files

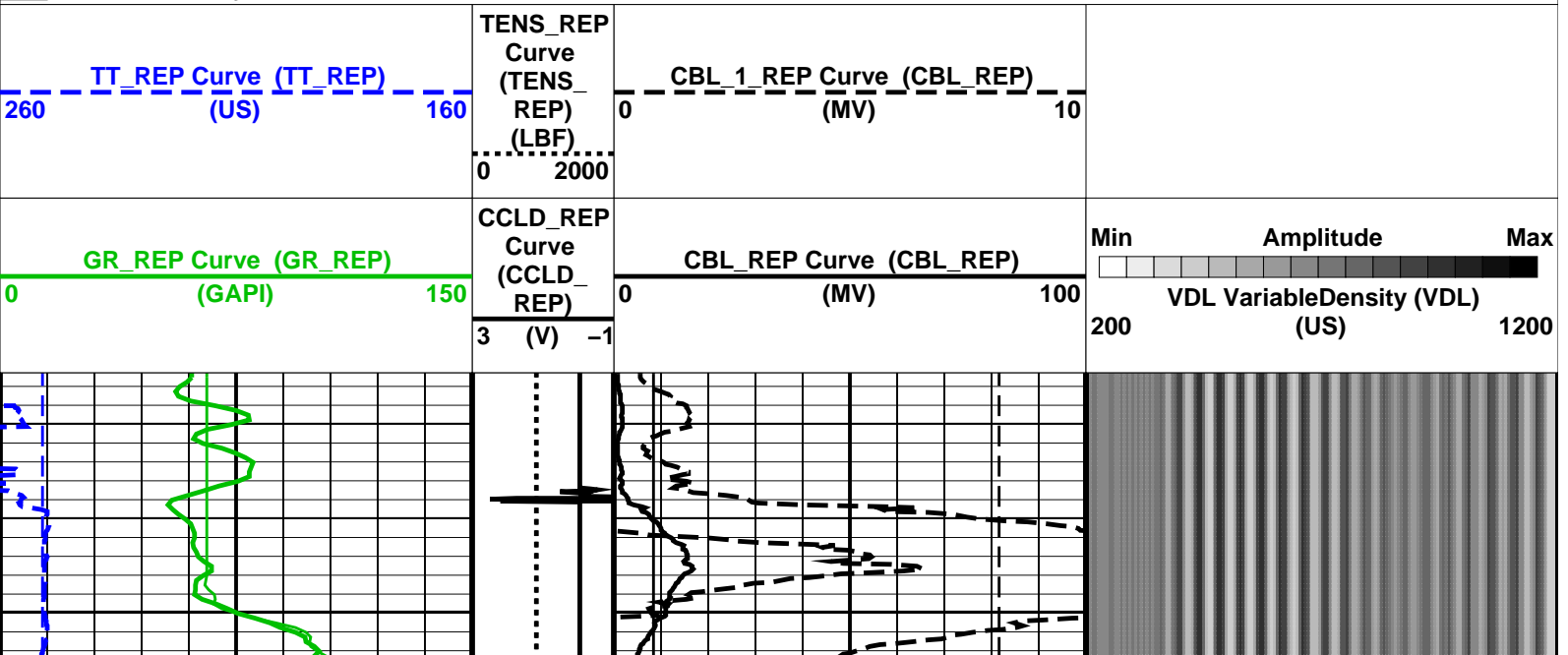
DEFAULT	SCMT_PSP_052PUP	FN:49	PRODUCER	18-Jan-2014 16:26	7318.5 FT	7024.0 FT
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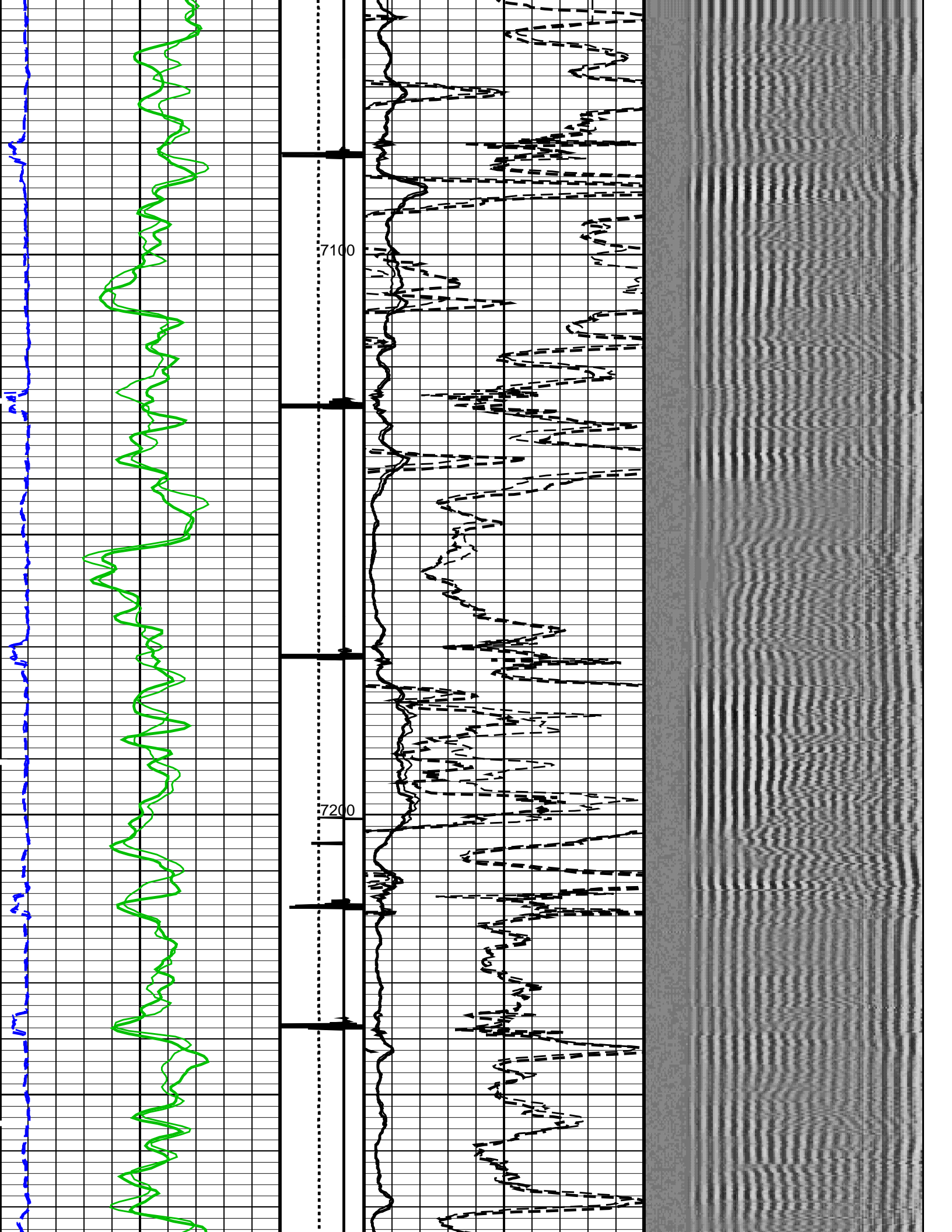
OP System Version: 19C2-270

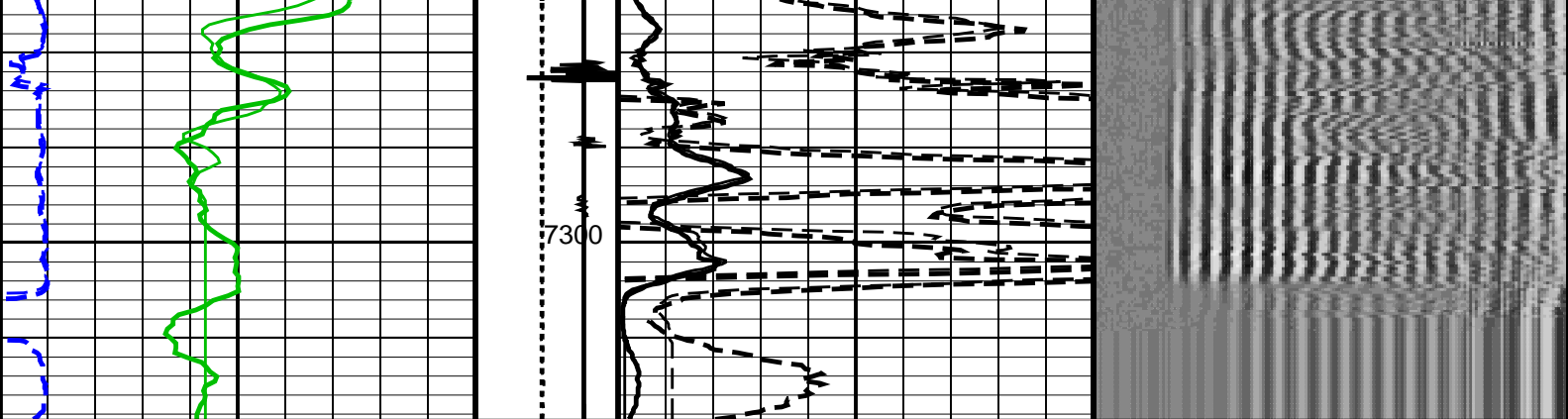
SCMT-CB unofficial PSPT unofficial

PIP SUMMARY

Time Mark Every 60 S







GR_REP Curve (GR_REP) (GAPI) 0 150	CCLD_REP Curve (CCLD_ REP) 3 (V) -1	CBL_REP Curve (CBL_REP) 0 (MV) 100	Min Amplitude Max VDL VariableDensity (VDL) (US) 200 1200
TT_REP Curve (TT_REP) (US) 260 160	TENS_REP Curve (TENS_ REP) (LBF) 0 2000	CBL_1_REP Curve (CBL_REP) 0 (MV) 10	

PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL_REP Vertical Scale: 5" per 100'

Graphics File Created: 18-Jan-2014 16:26

OP System Version: 19C2-270

SCMT-CB unofficial PSPT unofficial

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8150		
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	18-JAN-2013		
CBL Correction Factor	0.0714244	CBL Adjustment Factor (CBAF)	0.700000
MAP 1 Correction Factor	0.105729	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.0974552		
MAP 3 Correction Factor	0.0933426		
MAP 4 Correction Factor	0.0893609		
MAP 5 Correction Factor	0.0787527		
MAP 6 Correction Factor	0.0753900		
MAP 7 Correction Factor	0.0917553		
MAP 8 Correction Factor	0.0903068		

Parameters

DLIS Name	Description	Value
BILI	SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD	
	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	
CMT	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	
MC	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	11398	FT

Input DLIS Files

DEFAULT	SCMT_PSP_047LUP	FN:44	PRODUCER	18-Jan-2014 12:57	7318.5 FT	7045.5 FT
DEFAULT	SCMT_PSP_050PUP	FN:47	PRODUCER	18-Jan-2014 16:09	11410.0 FT	-15.5 FT

Output DLIS Files

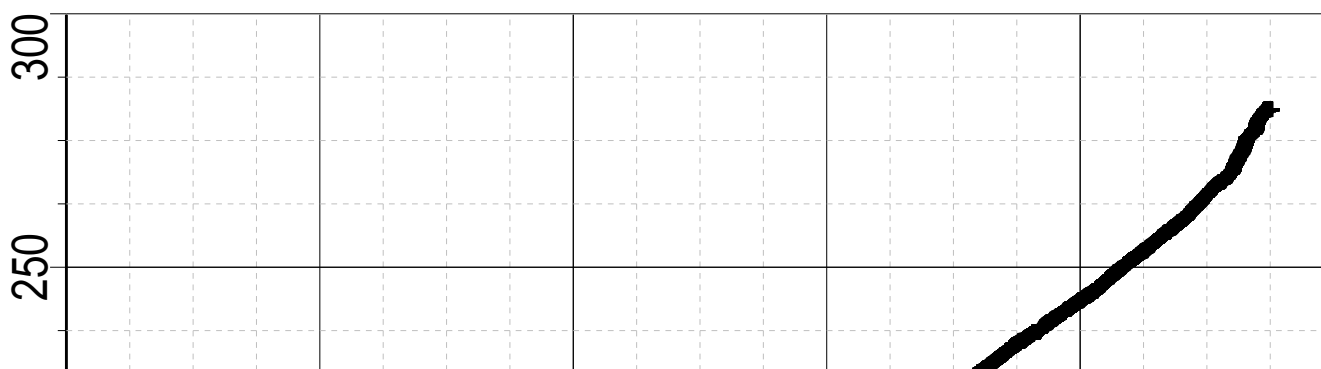
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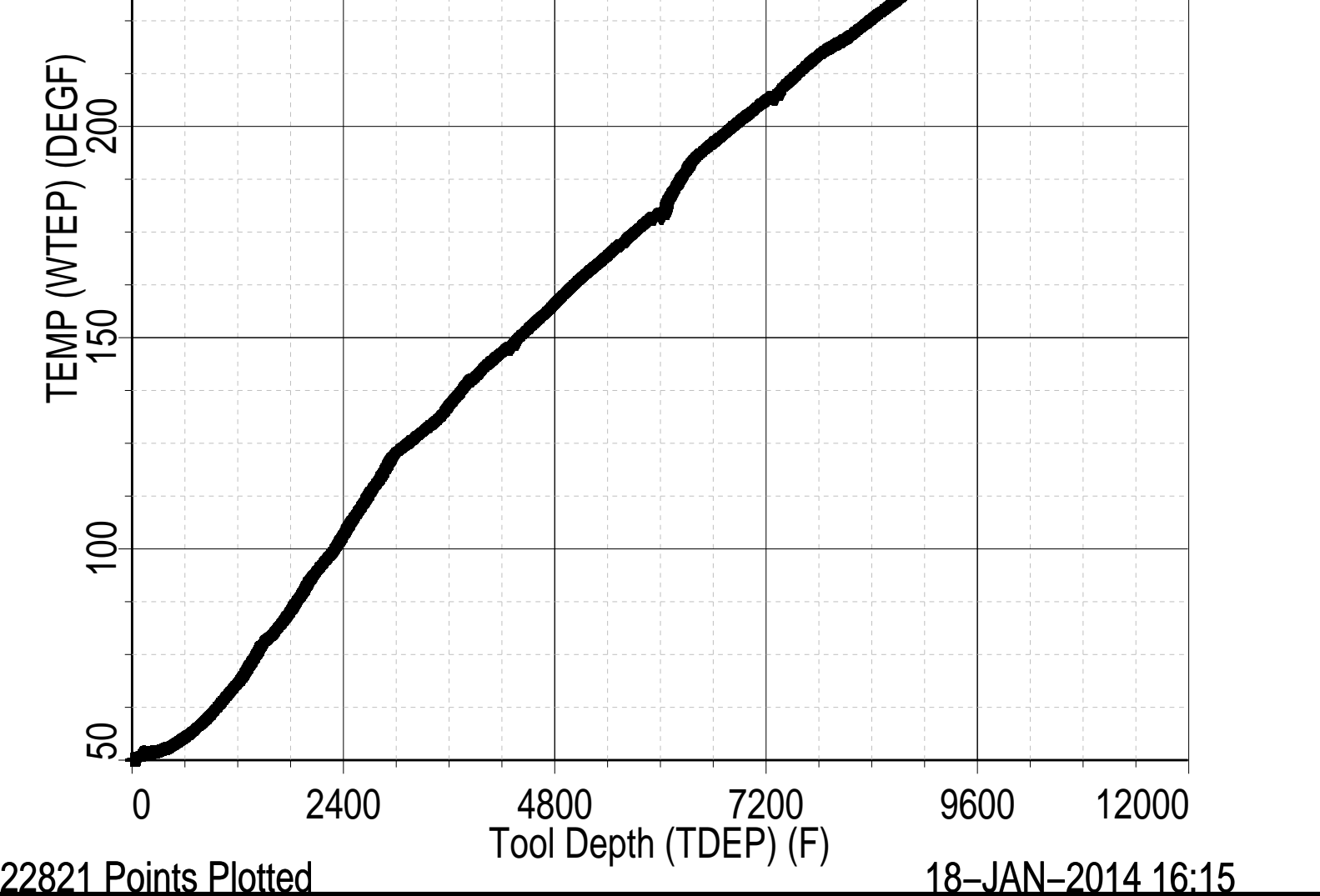
Schlumberger

TEMPERATURE PLOT

MAXIS Field Log

Index: 11410.0 – -15.5 FT





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 – CB 8150
SCMC – CA 8078

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		1135	Master		1231
	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		1286	Master		1343
	500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)			500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)	

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								1524		Master								1592	
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								1308		Master								1329	
500.0 (Minimum)			1075 (Nominal)			1650 (Maximum)			500.0 (Minimum)			1075 (Nominal)			1650 (Maximum)				
Phase		CBL Amplitude Plus MV						Value											
Master								1344											
1000 (Minimum)			1350 (Nominal)			1700 (Maximum)													
Master: 18-Jan-2013 14:10																			

Schlumberger

PBMS COEFFICIENTS

MAXIS Field Log

Client: ENCANA OIL & GAS (USA) INC
Field: STORY GULCH
Well: SG 8506B-34 (E34 496)
Run date: 18-Jan-2014

Tool: PSP
Sub Type: PBMS
Sensor: GR

PBMS Gamma Ray

Sonde Serial NB
Sensor Serial NB
Calib Date ddmmyy
Matrix Size
Coeff CRC

RESISTORS FOR GR SENSOR N.33155, TOOL PBMS-BA0861. SENSOR S/N:
33155
220499
12
0710

GR HV Rt

Rt**0

Rt**1

Rt**0

+ .237000000000e+04

+ .332000000000e+04

Client: ENCANA OIL & GAS (USA) INC

Field: STORY GULCH

Well: SG 8506B-34 (E34 496)

Run date: 18-Jan-2014

Tool: PSP

Sub Type: PBMS

Sensor: 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.861 S/N:

861

310502

16

DEC6

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	-1.43179842319E+03	-.888852291415E+02	+.731918491078E+02
	Tt**3	Tt**4	Tt**5
Tt**0	-.118395145374E+02	+.745799453953E+00	0.0

Client: ENCANA OIL & GAS (USA) INC

Field: STORY GULCH

Well: SG 8506B-34 (E34 496)

Run date: 18-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.861 S/N:

861

310502

66

596C

Coeff CRC

33C2

Pres Coeff

	Fb**0	Fb**1	Fb**2
Fc**0	+.711550762736E+04	+.153878897800E-01	-.257179234978E-06
Fc**1	-.105337091645E+01	-.125552962261E-04	-.950503832919E-10
Fc**2	+.115225841409E-05	+.490354586520E-10	+.105988949651E-14
Fc**3	+.883393528945E-12	+.665635296961E-16	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	-.804211610994E-10	-.705264184158E-15	-.605951709459E-19
Fc**1	+.263504457670E-15	+.366947427014E-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 861
 Calib Date ddmmyy 310502
 Matrix Size 66
 Coeff CRC 73C2

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+.114909007864E+03	-.261563620571E-03	+.727201308276E-08
Fb**1	-.599411471804E-02	+.192684257496E-07	+.149578546349E-12
Fb**2	-.320292169705E-07	+.373670664357E-12	+.871958109779E-18
Fb**3	-.307852303739E-12	+.927295382637E-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	+.182108938515E-12	-.195543095905E-16	-.228467332529E-20
Fb**1	-.413038704885E-17	-.706757563488E-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 861
Calib Date ddmmyy 310502
Matrix Size 16
Coeff CRC C7E9

Clock Freq Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+310508075363E+05	+294368299940E-02	+769893562204E-06
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	-.664433457831E-10	-.367102372803E-16	-.149627163753E-19

PBMS Quartz Gauge type F

Sonde Serial NB :
Sensor Serial NB 861
Calib Date ddmmyy 310502
Matrix Size 16
Coeff CRC 57FD

Clock Temp Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+117831722096E+03	-.563036688315E-02	-.289752074861E-07
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	+424868386643E-12	-.842142459987E-16	+376543844967E-20

Company: ENCANA OIL & GAS (USA) INC



Well: SG 8506B-34 (E34 496)
Field: STORY GULCH
County: GARFIELD
State: COLORADO

SLIM CEMENT MAPPING LOG
CCL – GAMMA RAY – TEMPERATUR