

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8503D-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: 2174 FNL & 1008 FWL			
Well:	SG 8503D-34 (E34 496)			
Company:	ENCANA OIL & GAS (USA) INC			
	LOCATION			
	SHL: 2174 FNL & 1008 FWL BHL: 843 FNL & 1338 FWL		Elev.: K.B. 8353.00 ft 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. 05-045-21903-000C	Section 34	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	17-Jan-2014			
Run Number	1			
Depth Driller	11650 ft			
Schlumberger Depth	11583 ft			
Bottom Log Interval	11574 ft			
Top Log Interval	30 ft			
Casing Fluid Type	FRESH WATER			
Salinity				
Density	8.4 lbm/gal			
Fluid Level	515 ft			
BIT/CASING/TUBING STRING				
Bit Size	7.875 in			
From	9648 ft			
To	11650 ft			
Casing/Tubing Size	4.500 in			
Weight	11.6 lbm/ft			
Grade				
From	30 ft			
To	11627 ft			
Maximum Recorded Temperatures	282 degF			
Logger On Bottom	17-Jan-2014		23:15	
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.

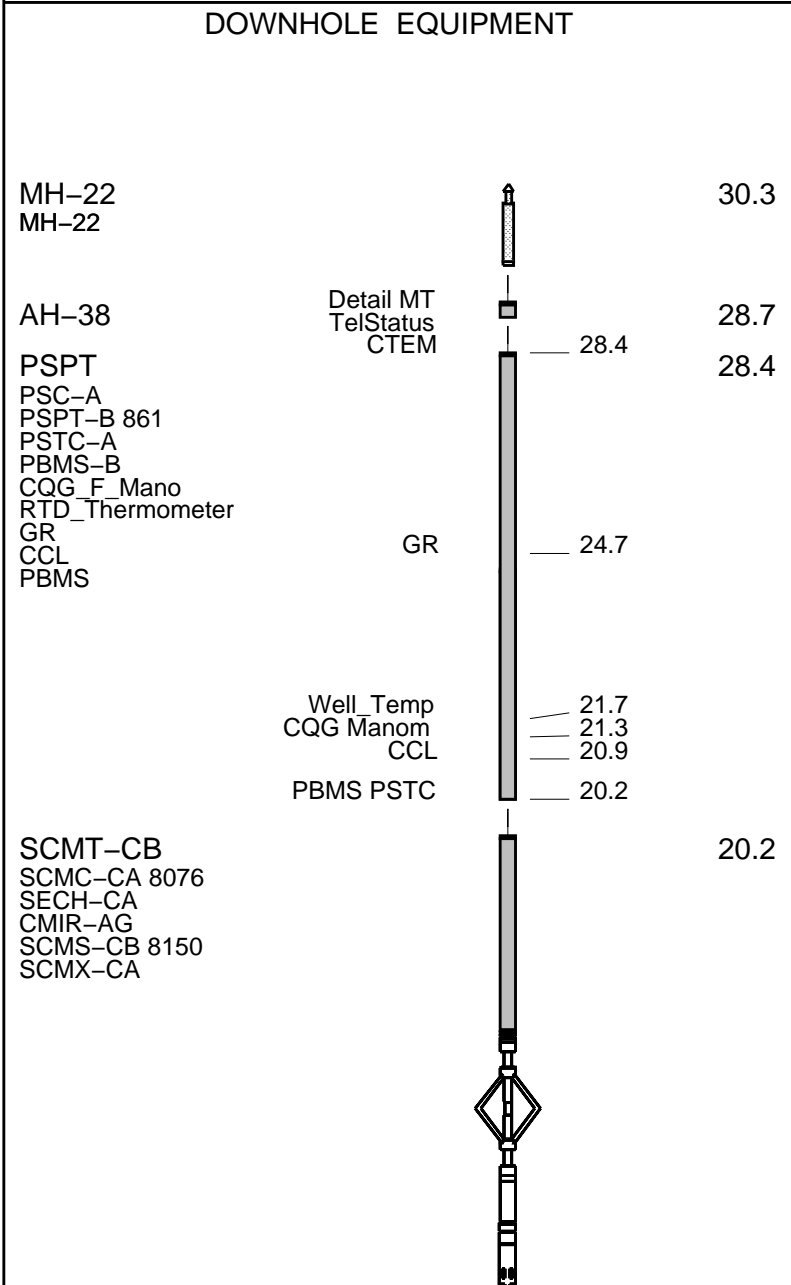
OTHER SERVICES1 OS1: NONE OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FIRST RUN IN HOLE CORRELATED TO DOWNLOG	
TOOL RAN AS PER TOOL SKETCH	
ENTRANCE TIME: 22:15	
TIME AT BOTTOM: 23:15	
EXIT TIME: 02:15	

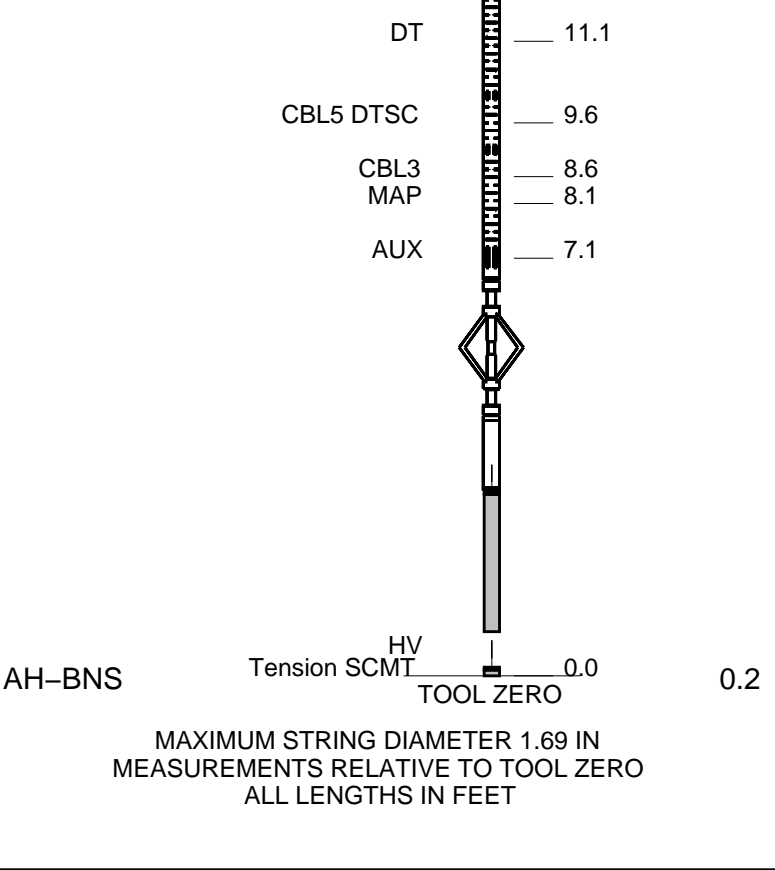
MAX RECORDED TEMPERATURE: 282 DEGF	
MAX RECORDED PRESSURE: 4632 PSIA	
SHORT JOINTS: 7390 FT & 10125 FT	
MAIN PASS LOGGED UNDER 0 SURFACE PRESSURE	
EXPECTED CBL AMP IN FREE PIPE = 80 MV	
CREW: J BARRY, M MCCOY, B CUPP, J ORTIZ, D MOWER	
THANK YOU FOR CHOOSING E&P WIRELINE, A SCHLUMBERGER COMPANY	

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

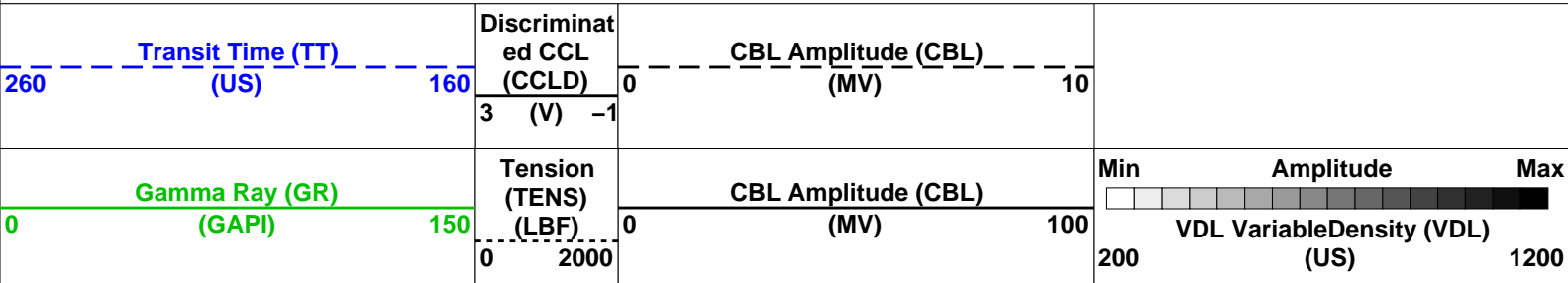
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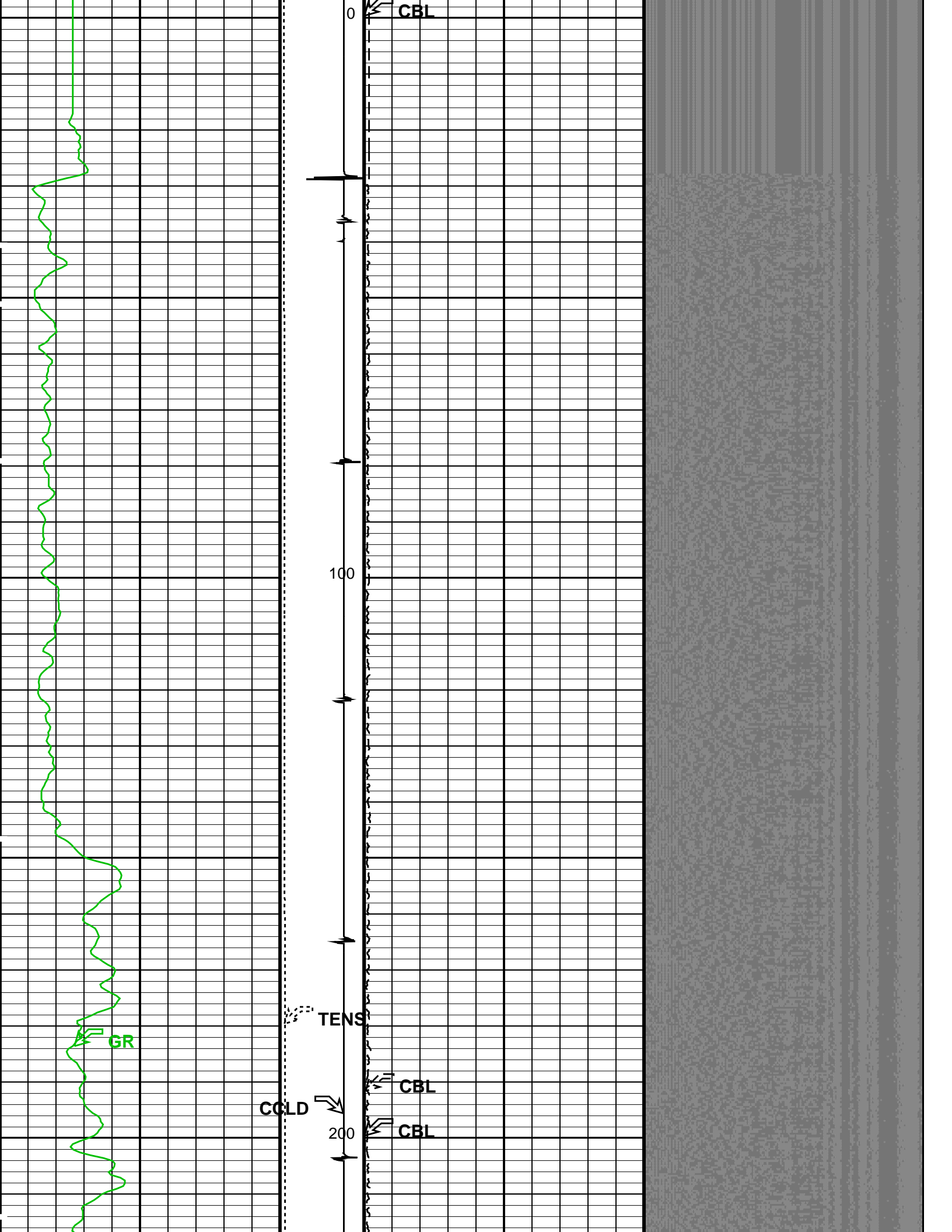
Input DLIS Files						
DEFAULT	SCMT_PSP_026LUP	FN:24	PRODUCER	18-Jan-2014 00:21	11595.5 FT	11.0 FT
Output DLIS Files						
DEFAULT	SCMT_PSP_028PUP	FN:26	PRODUCER	18-Jan-2014 03:36	11600.5 FT	-5.5 FT

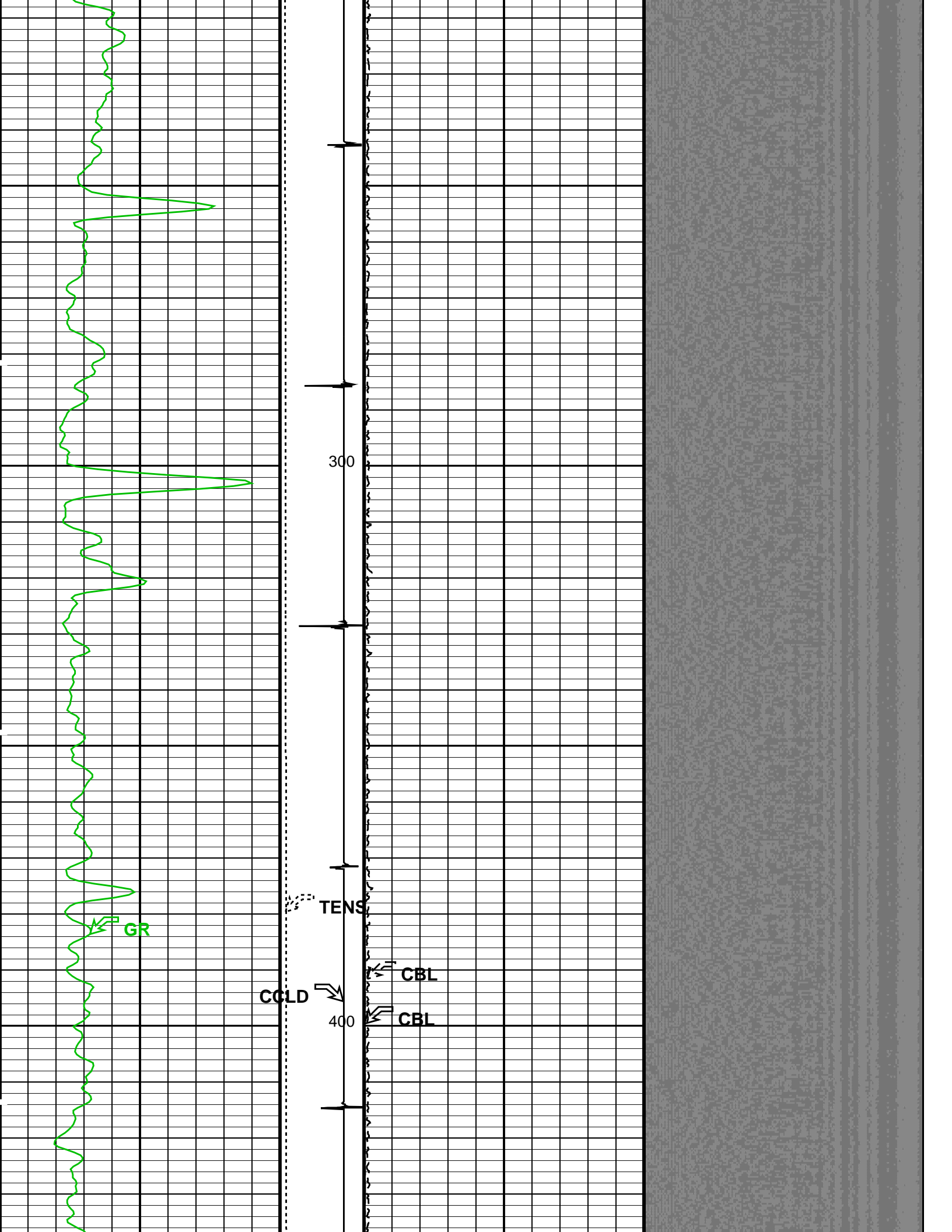
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SCMT-CB	unofficial	PSPT	unofficial

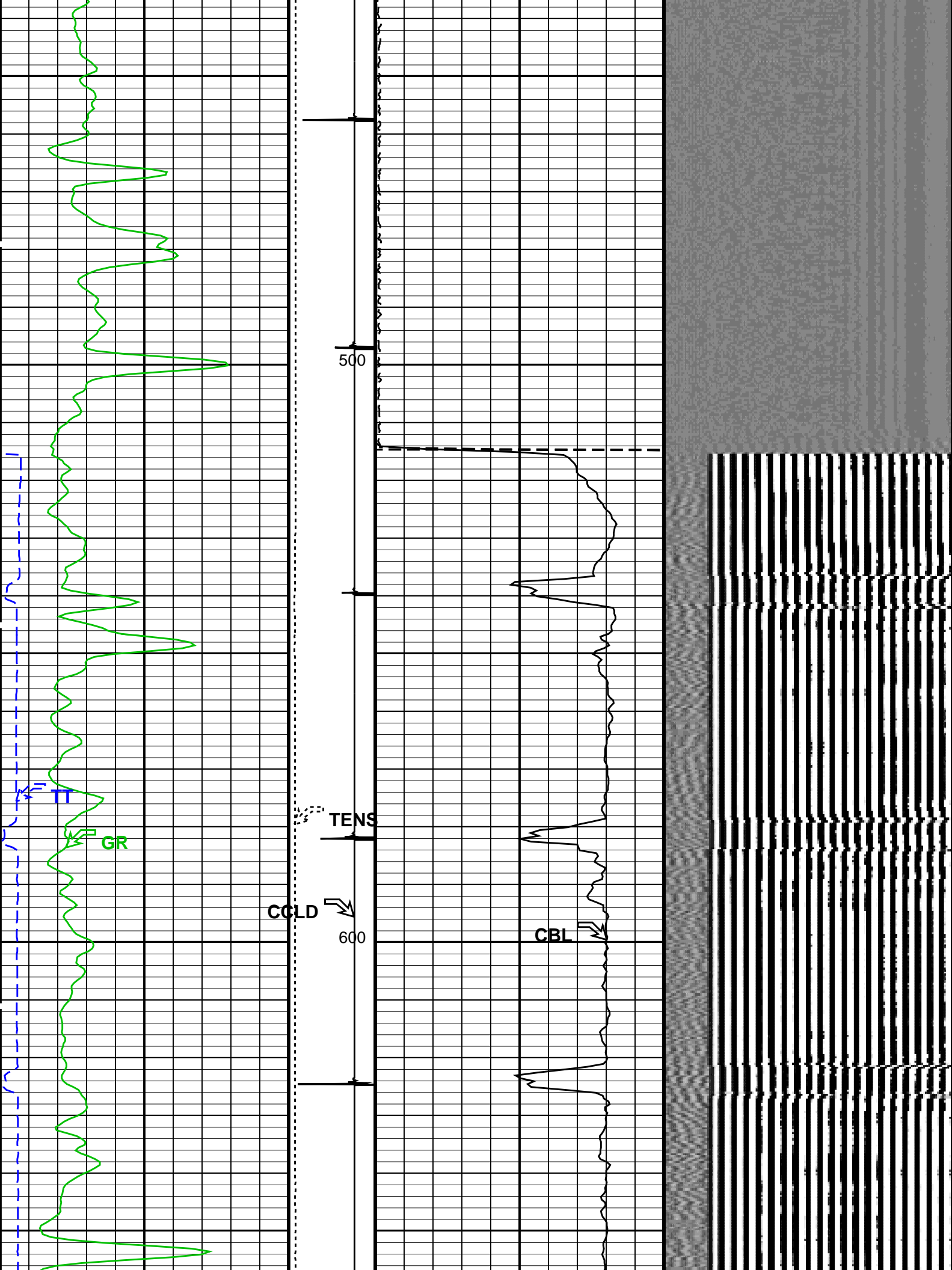
PIP SUMMARY

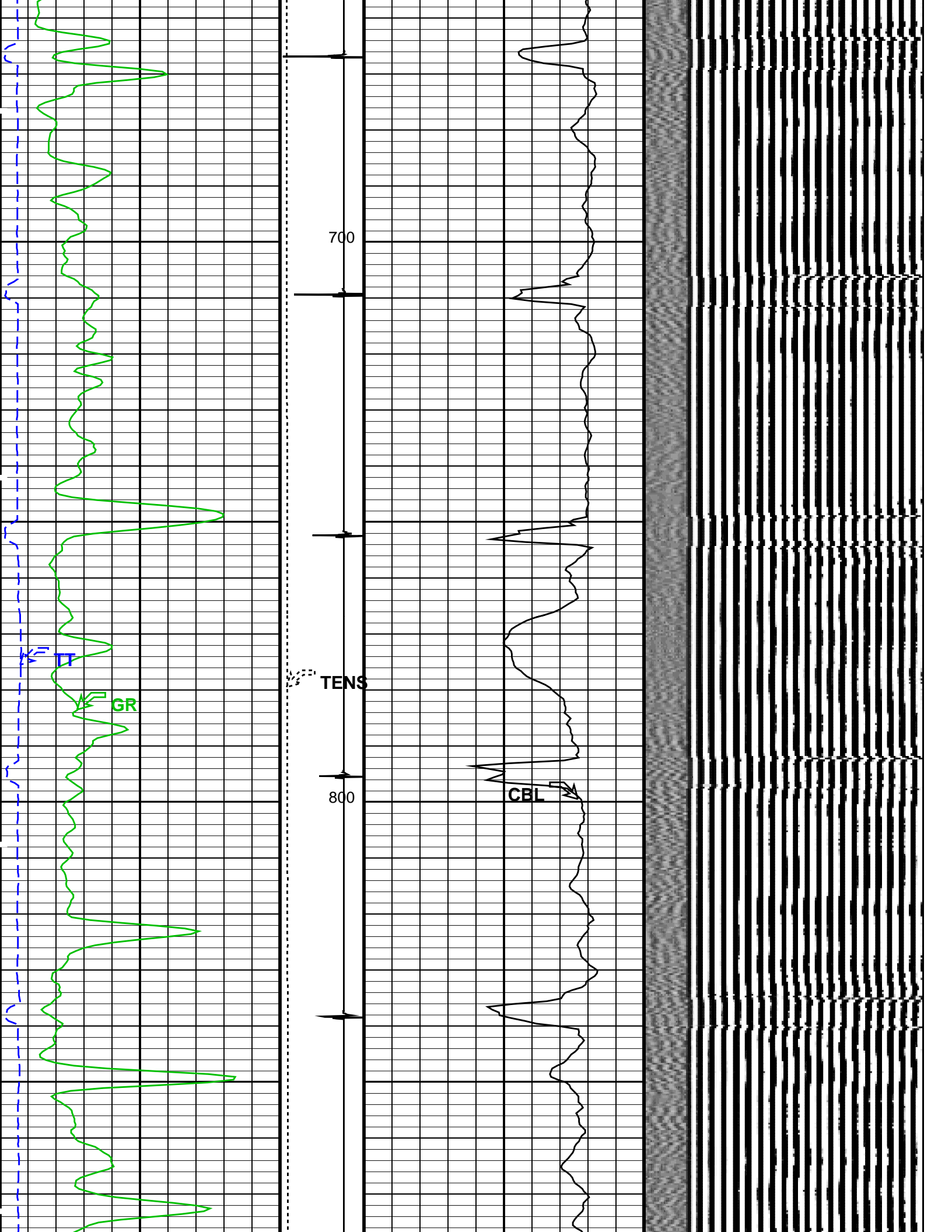
☒ Time Mark Every 60 S

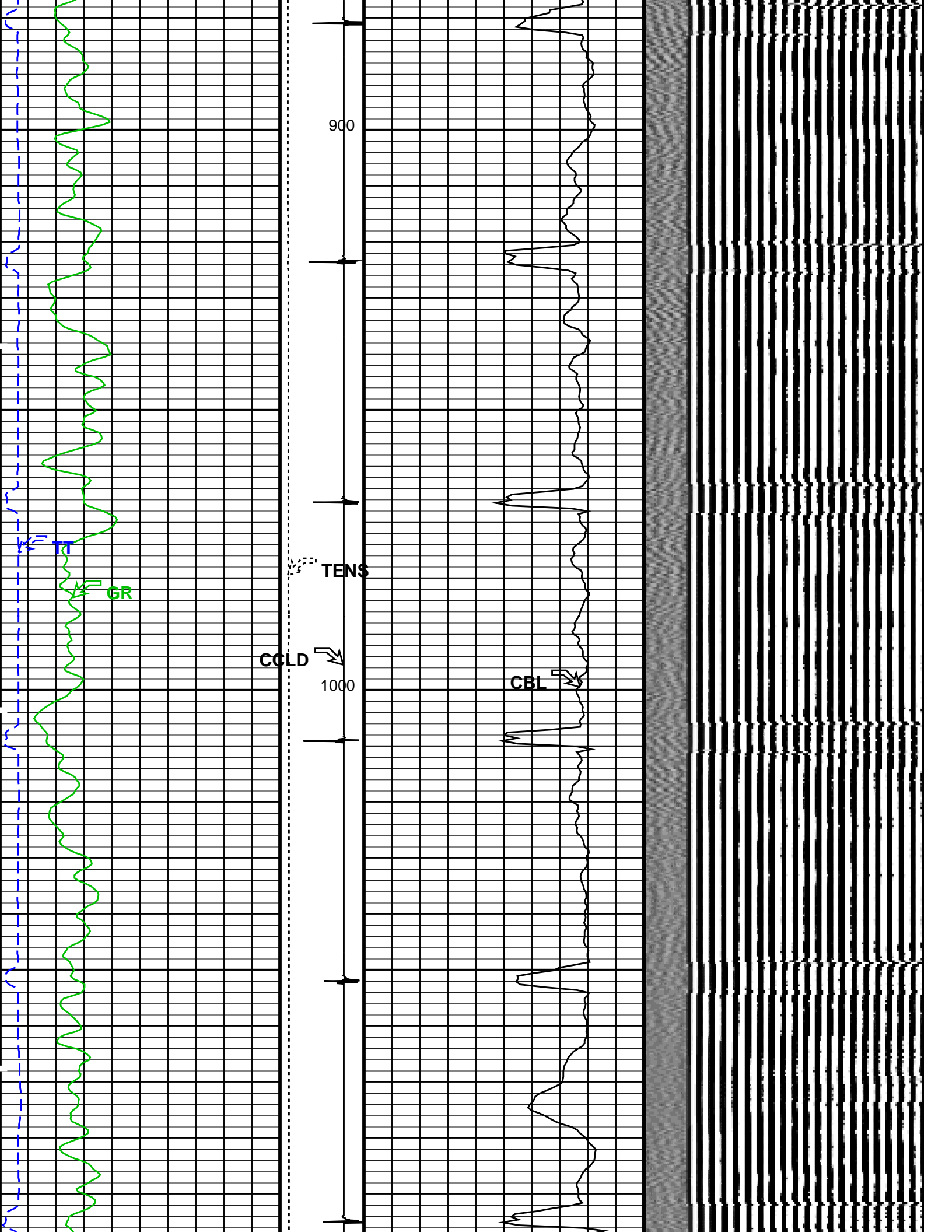


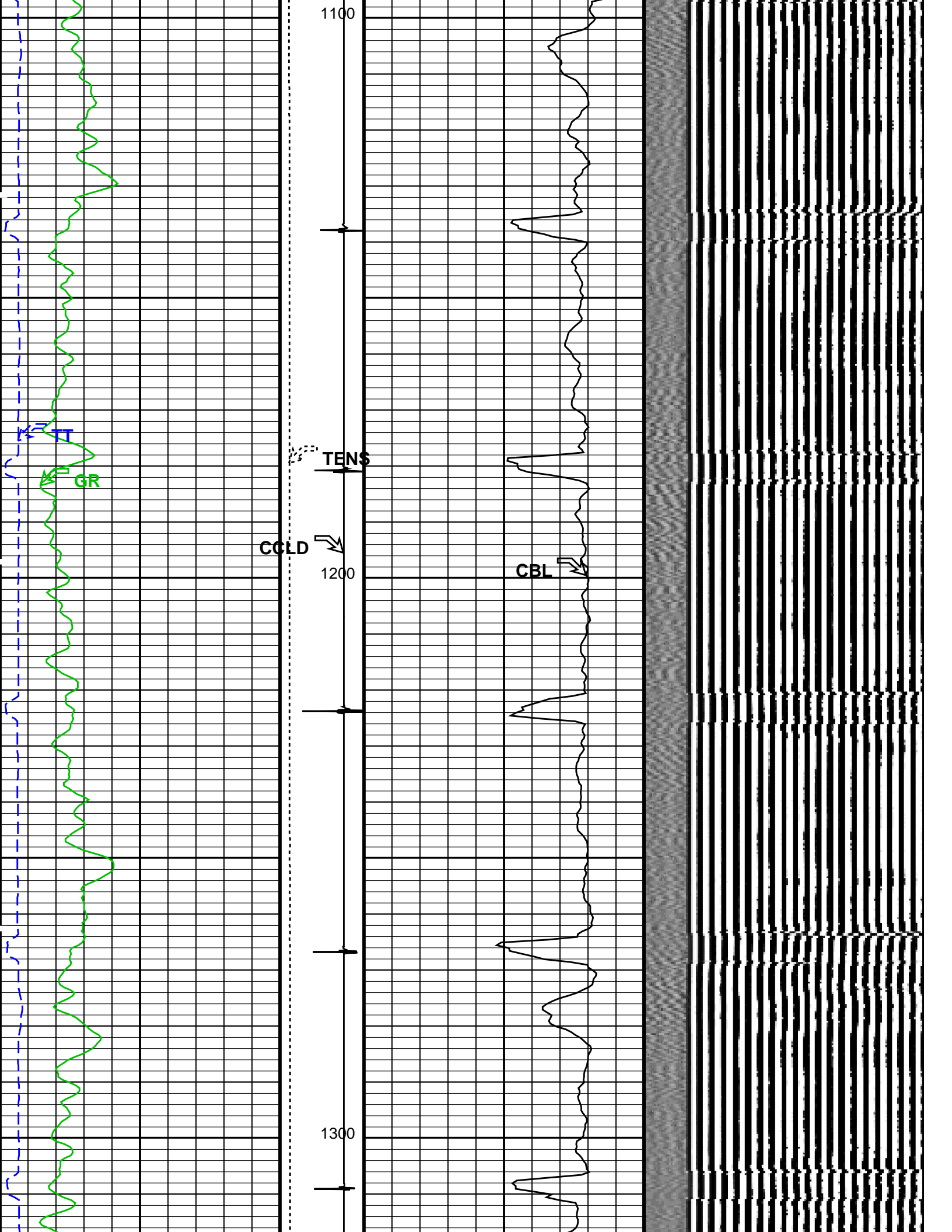


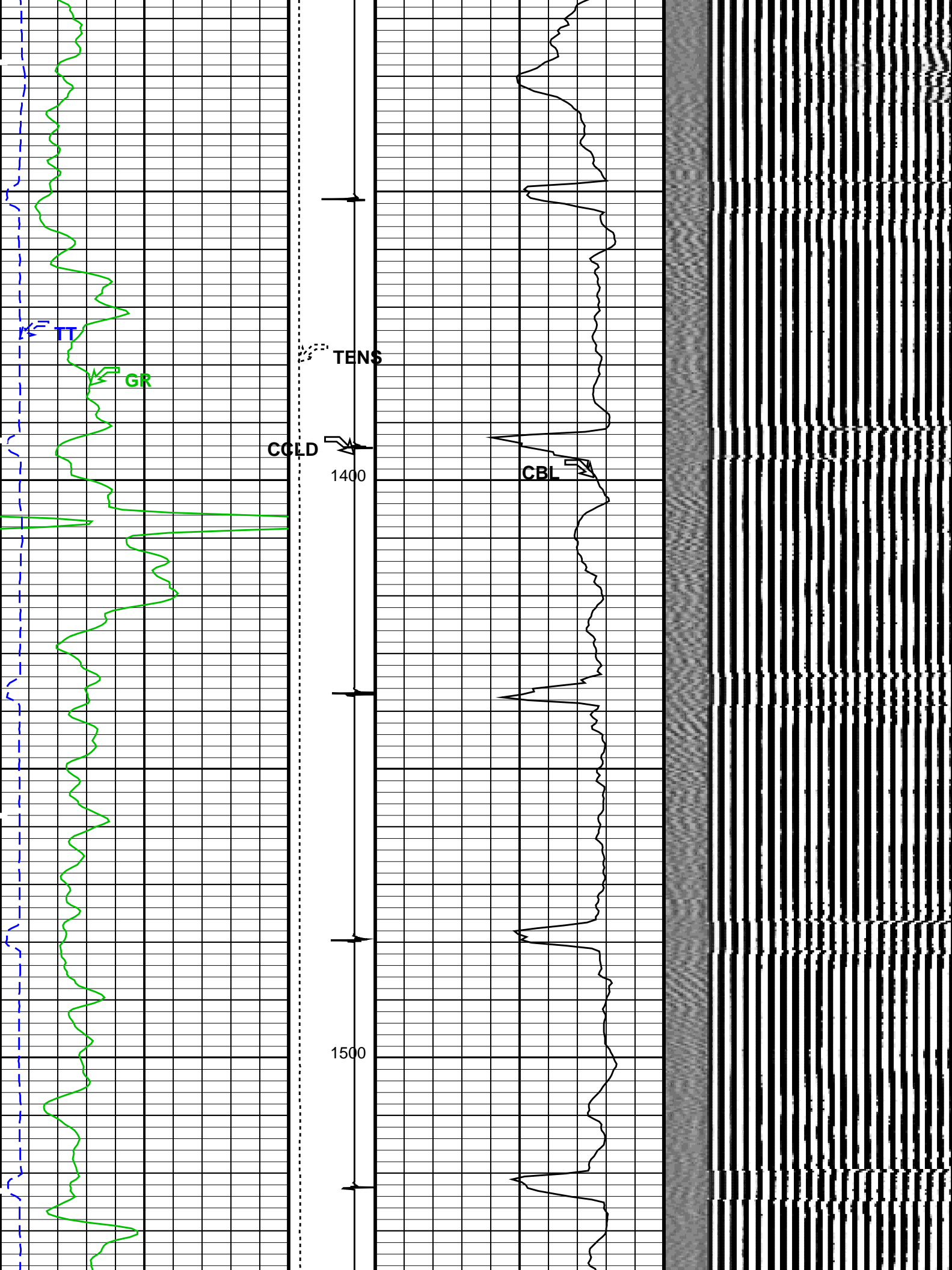


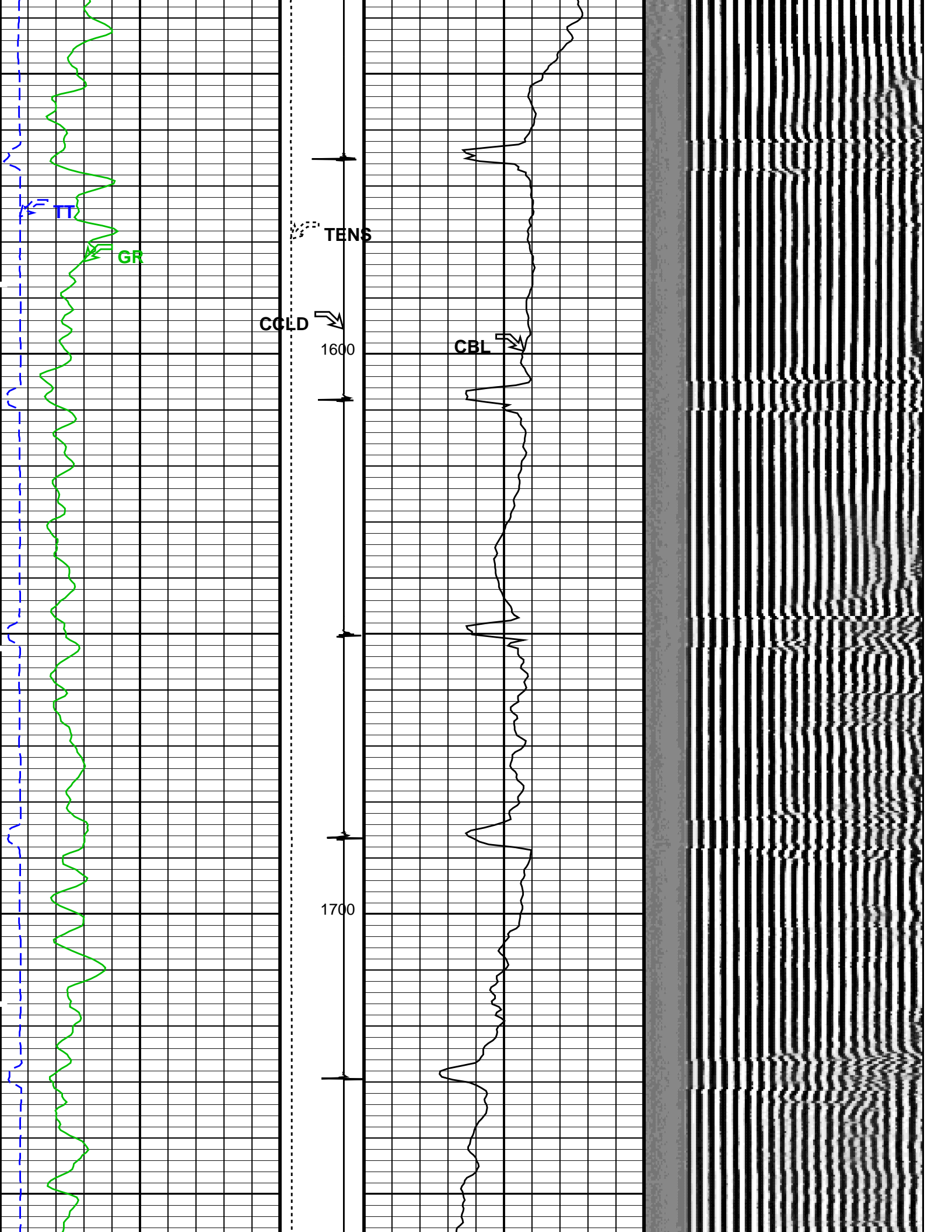


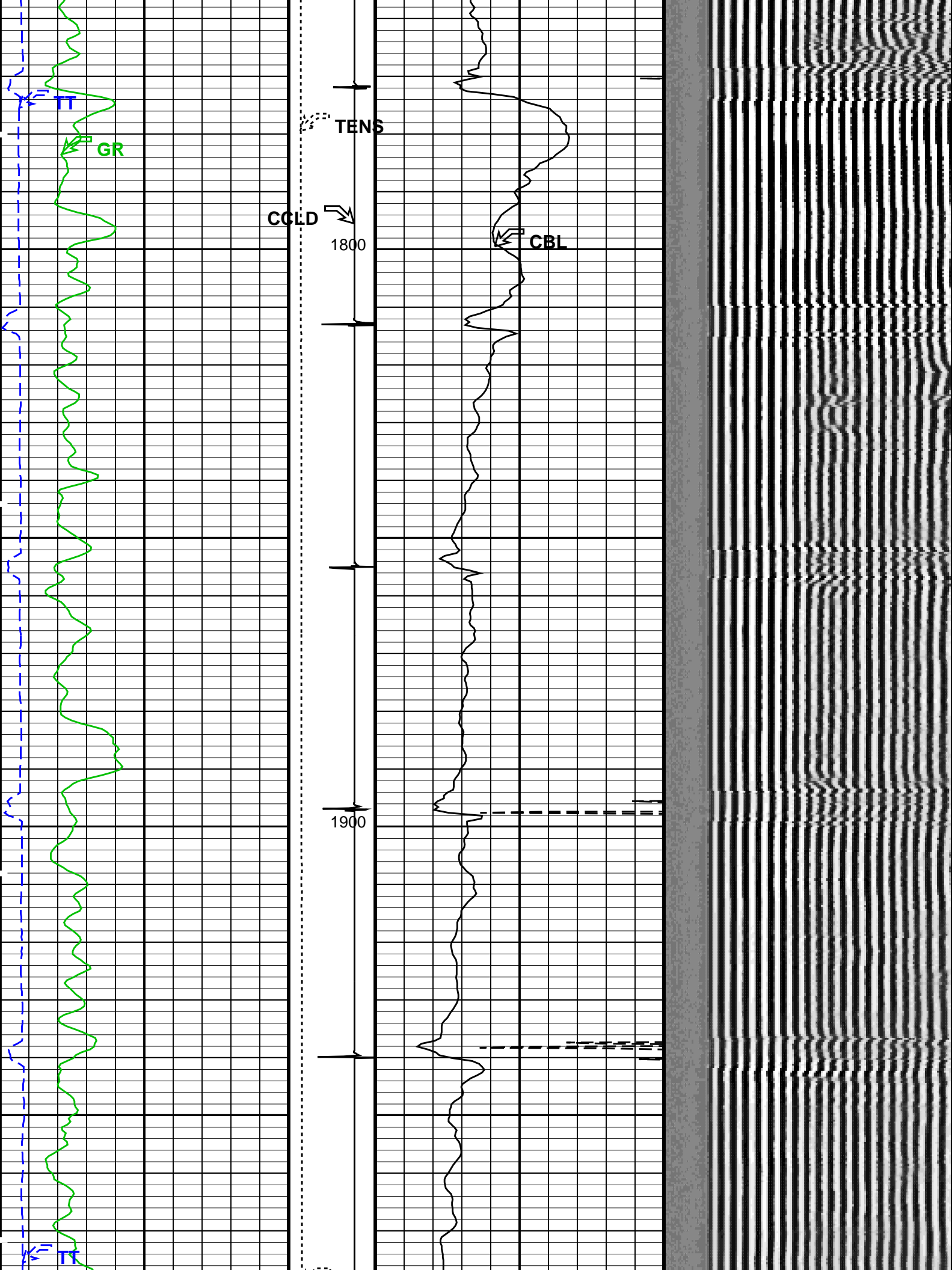


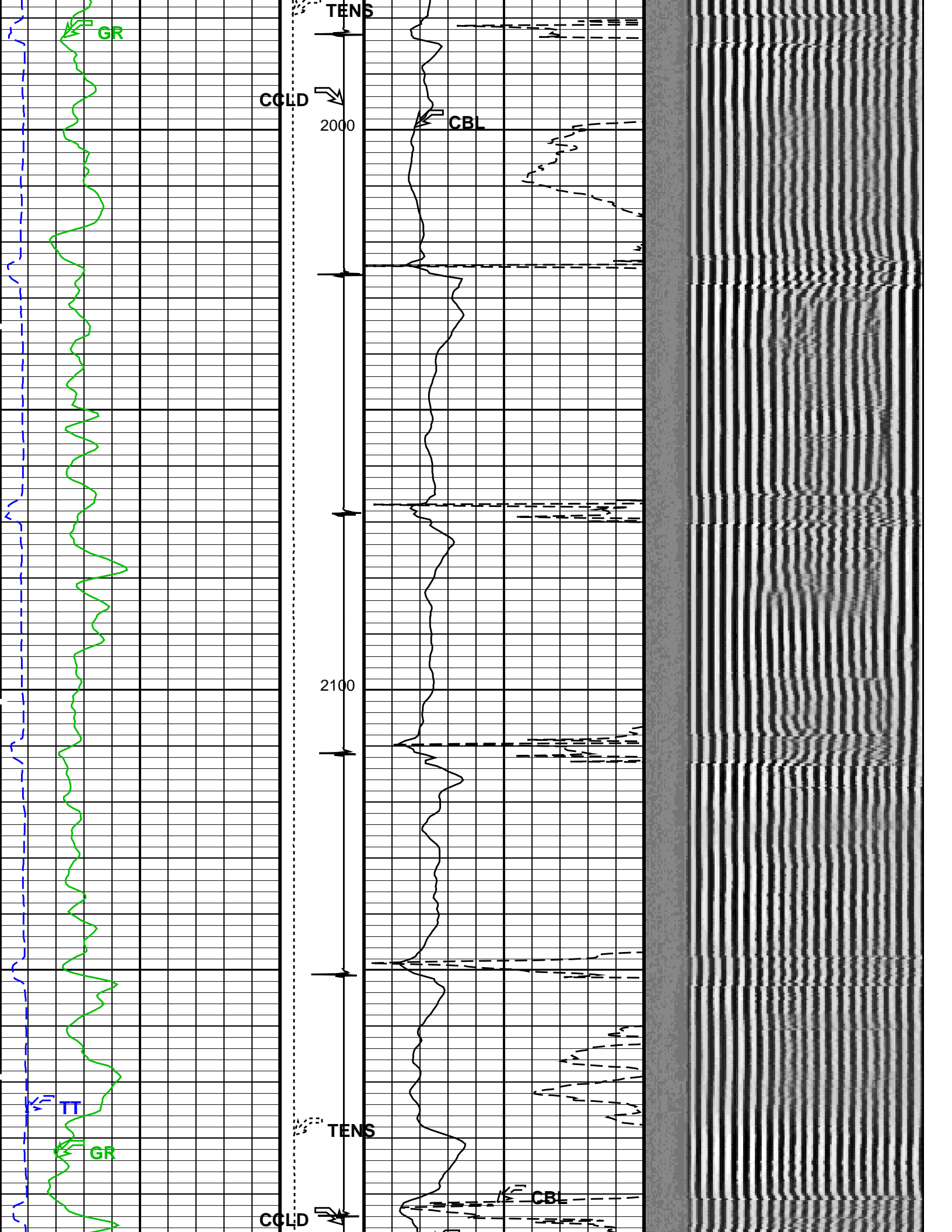


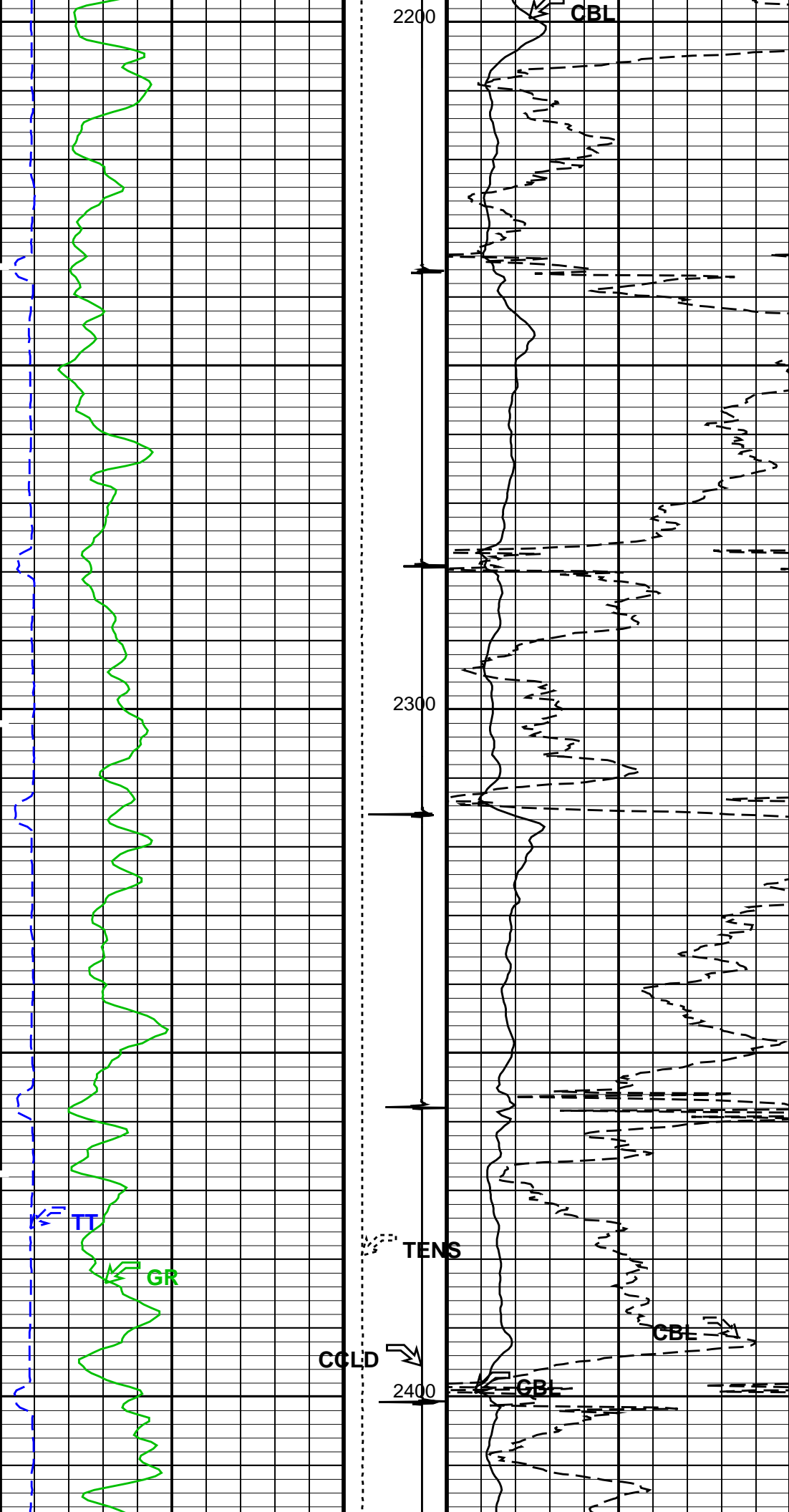


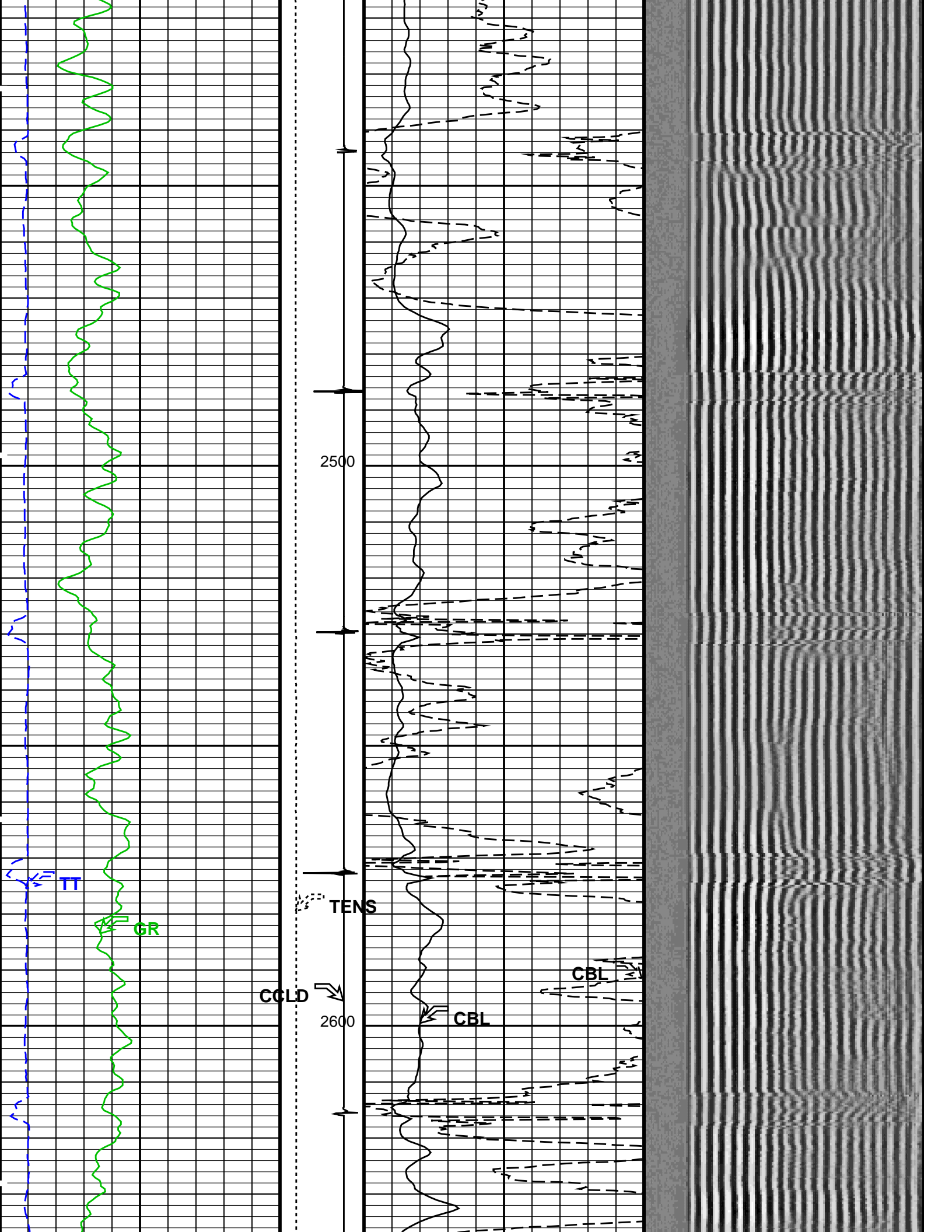


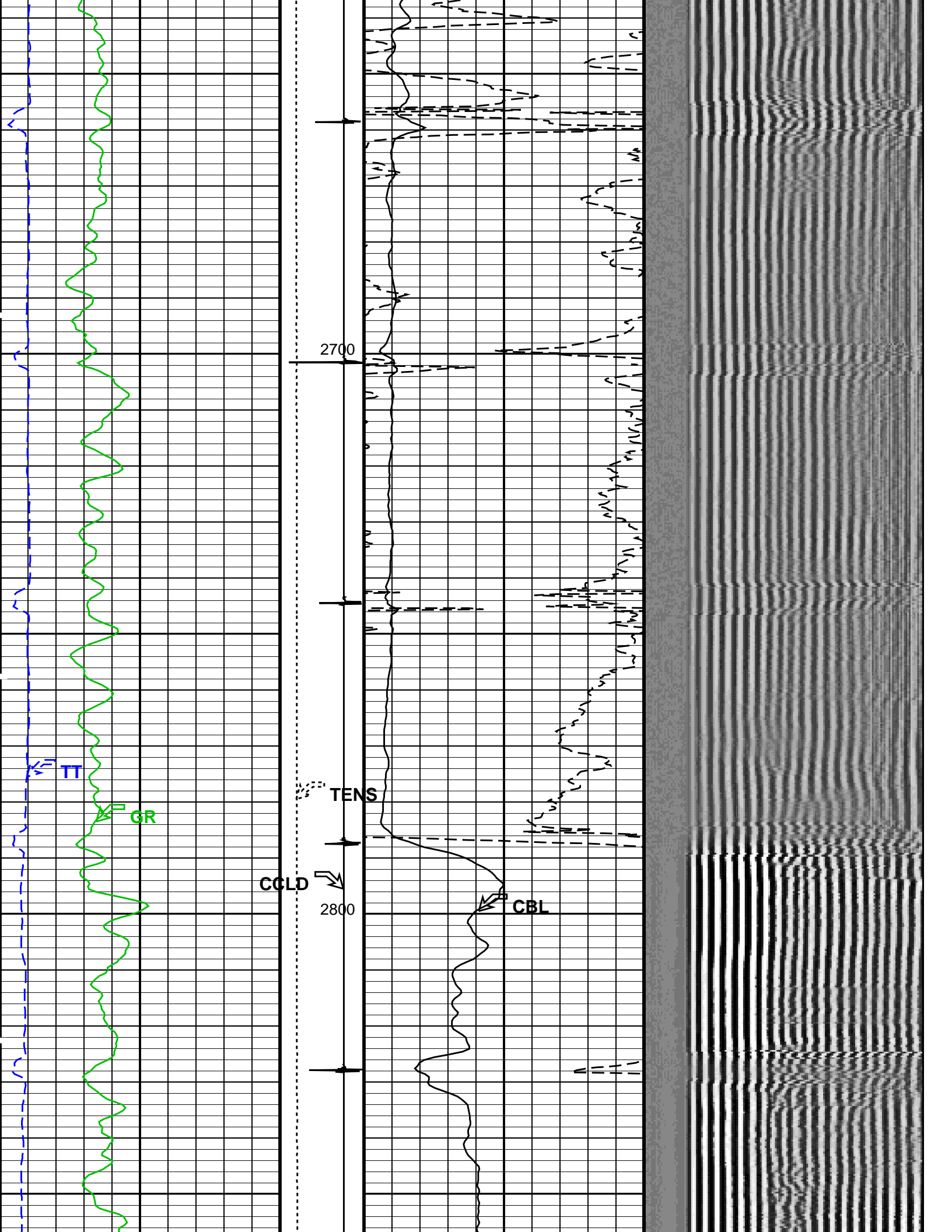


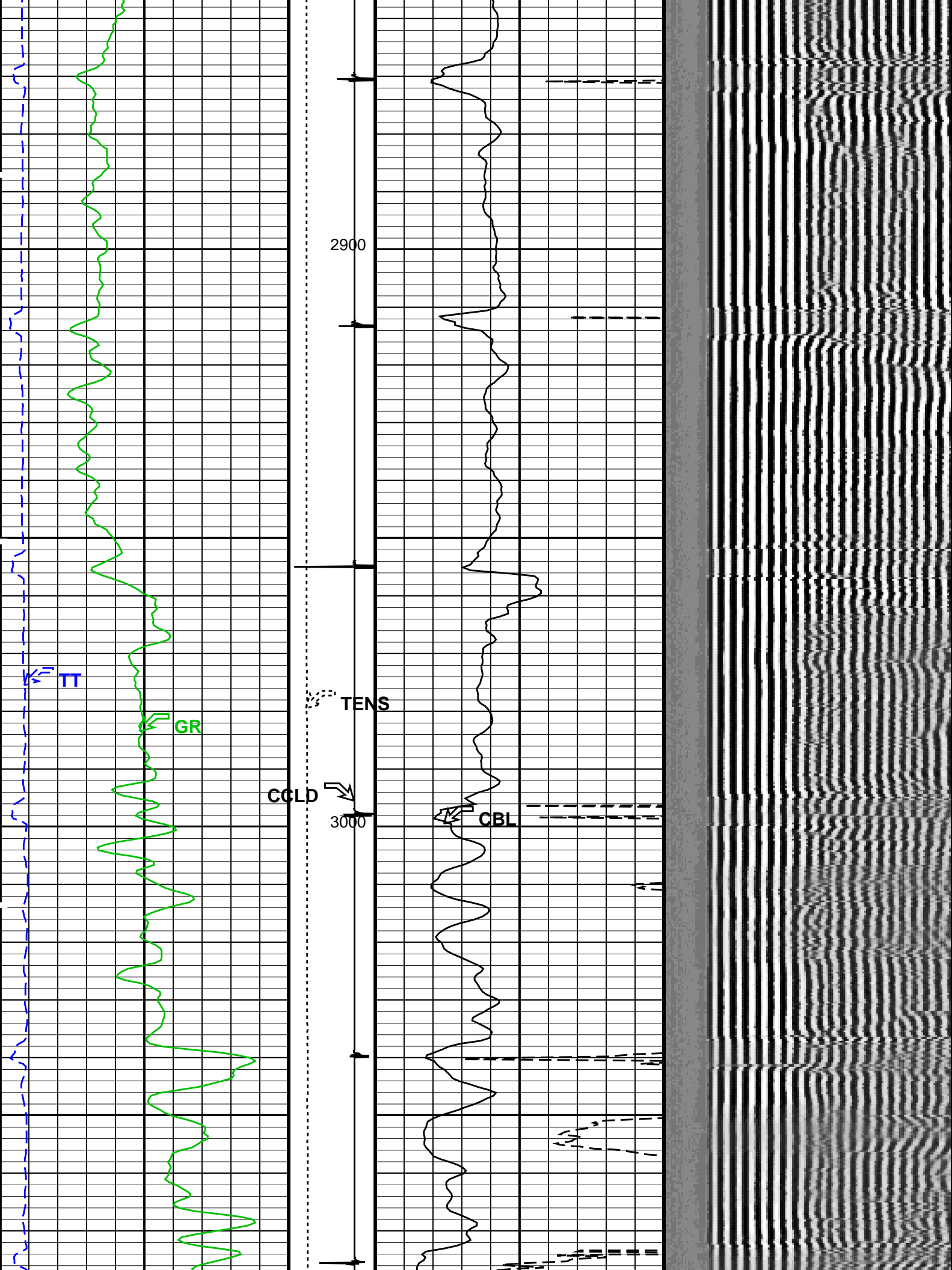


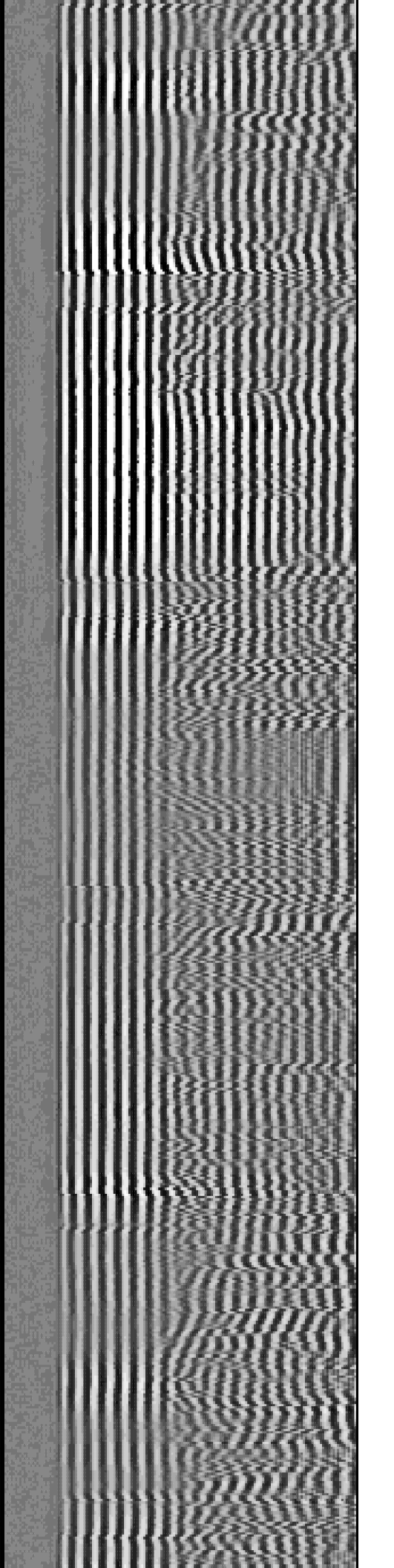
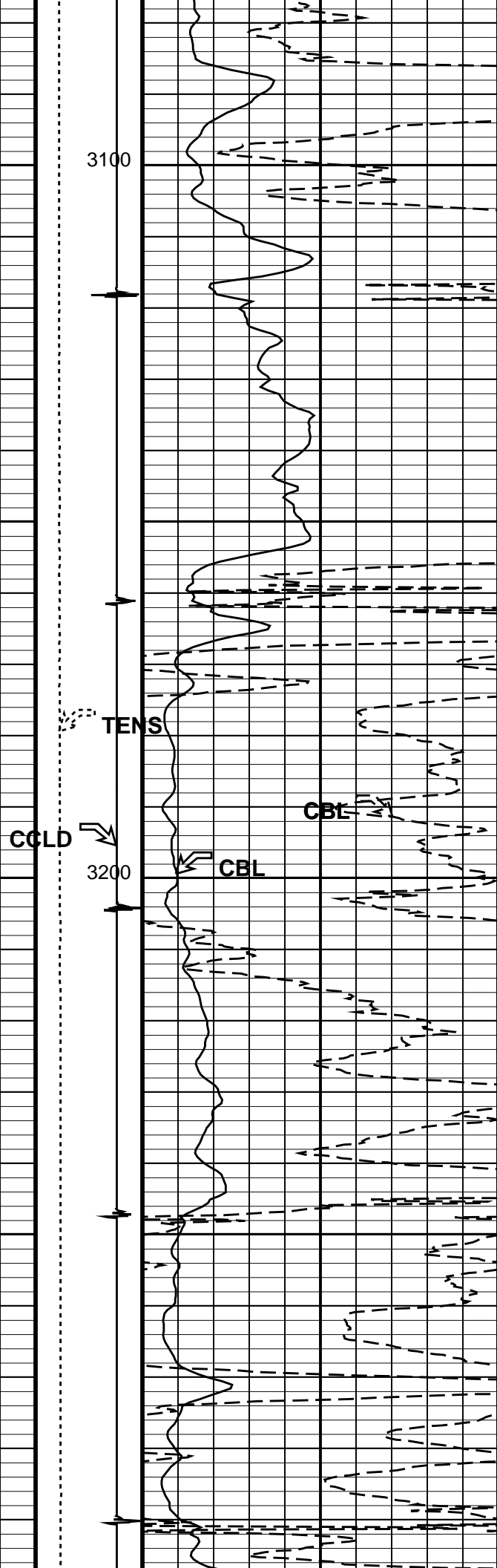
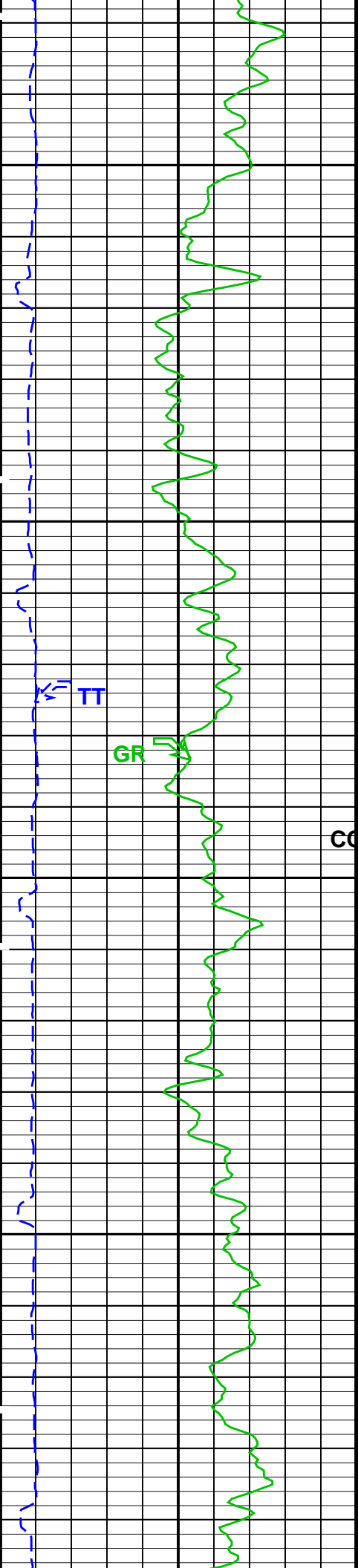


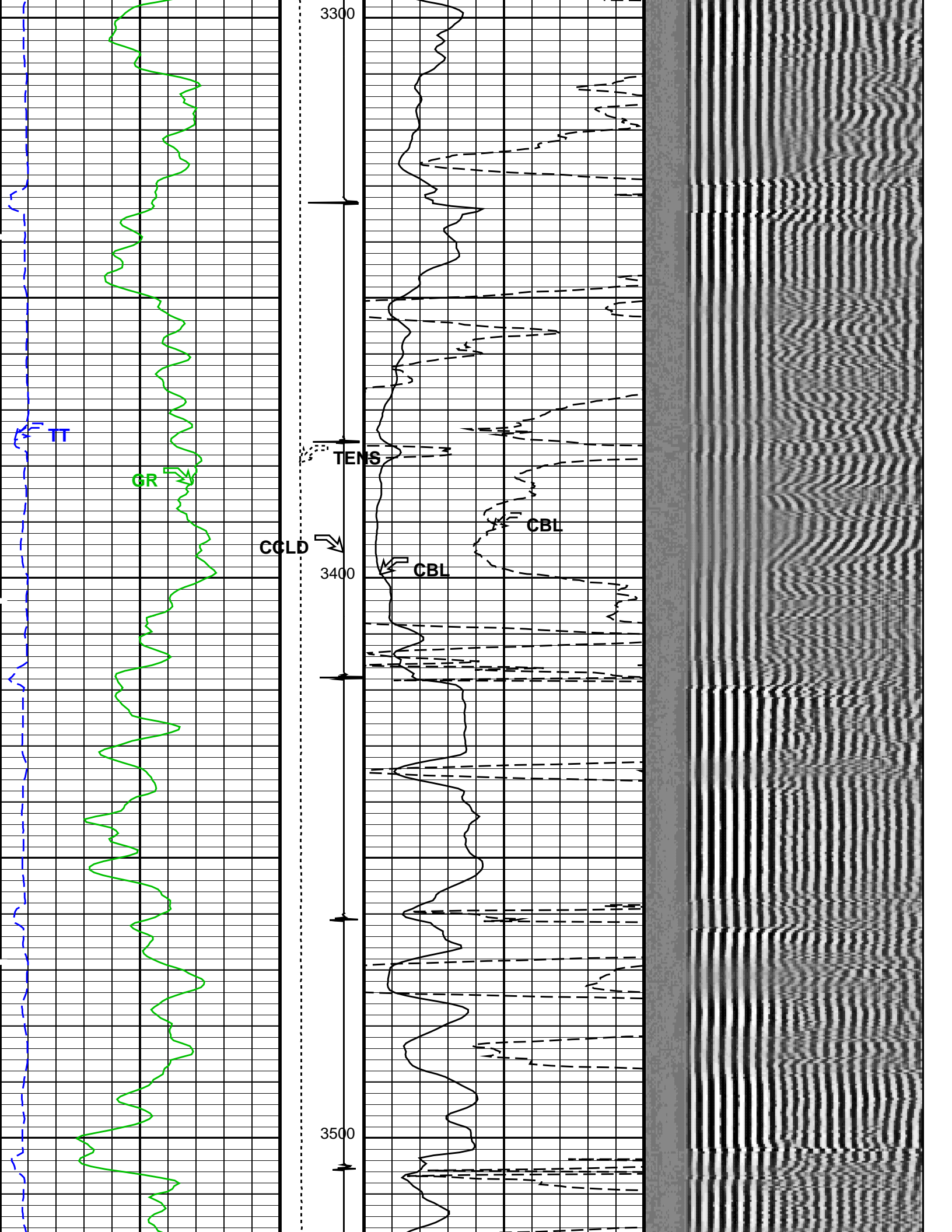


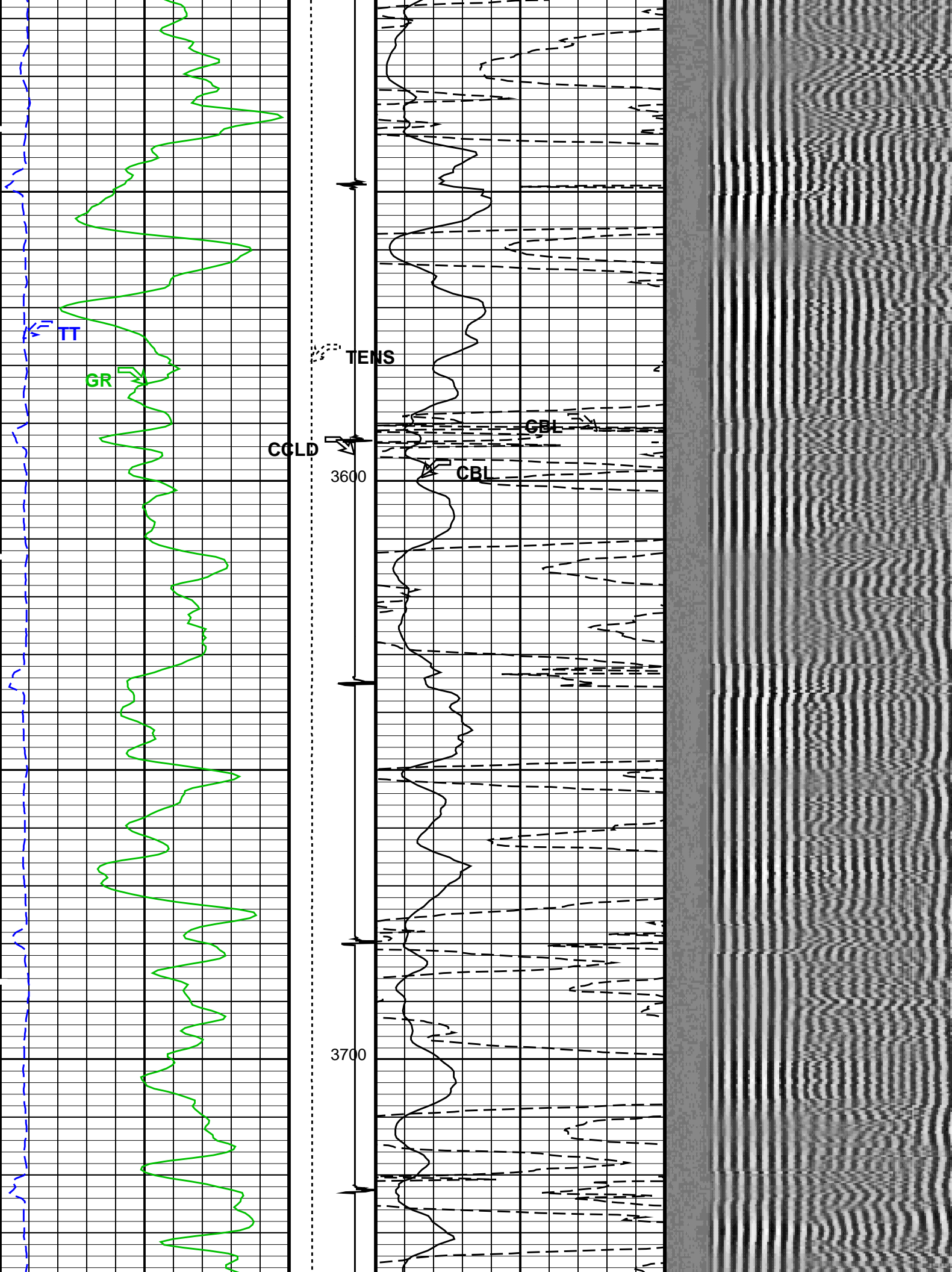


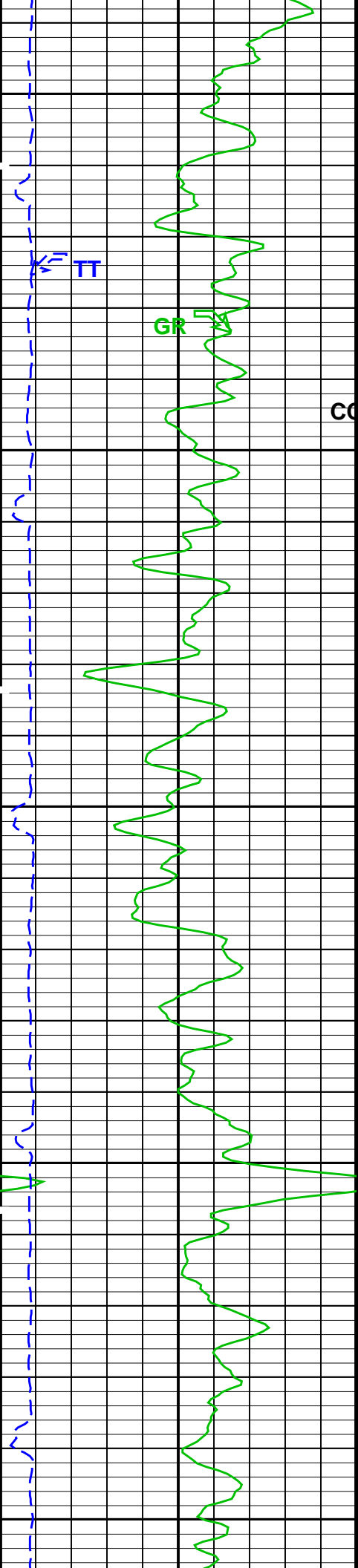












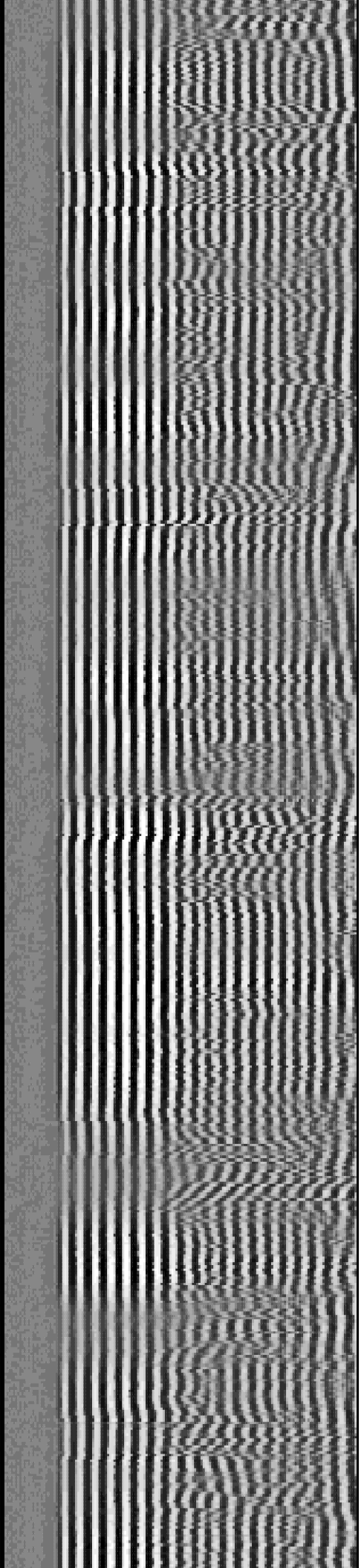
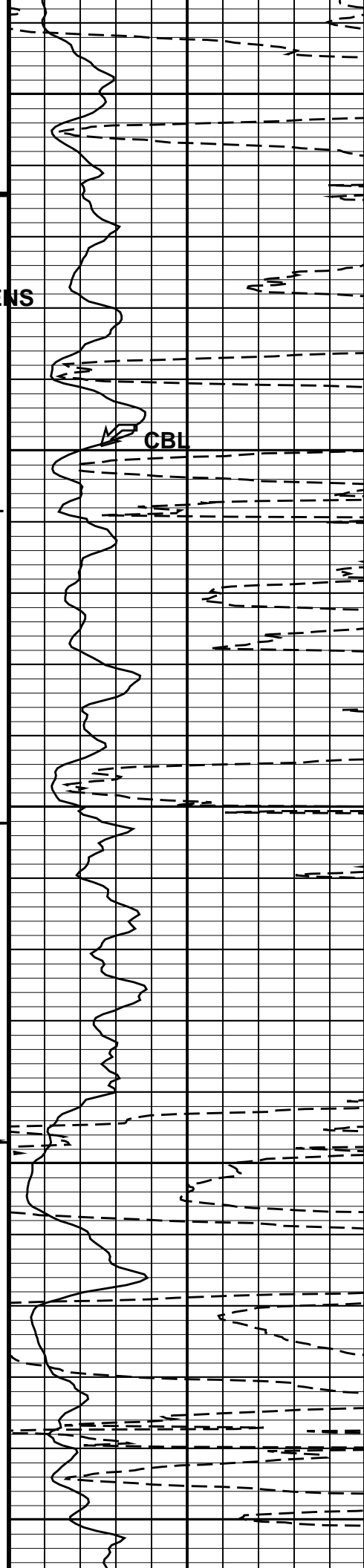
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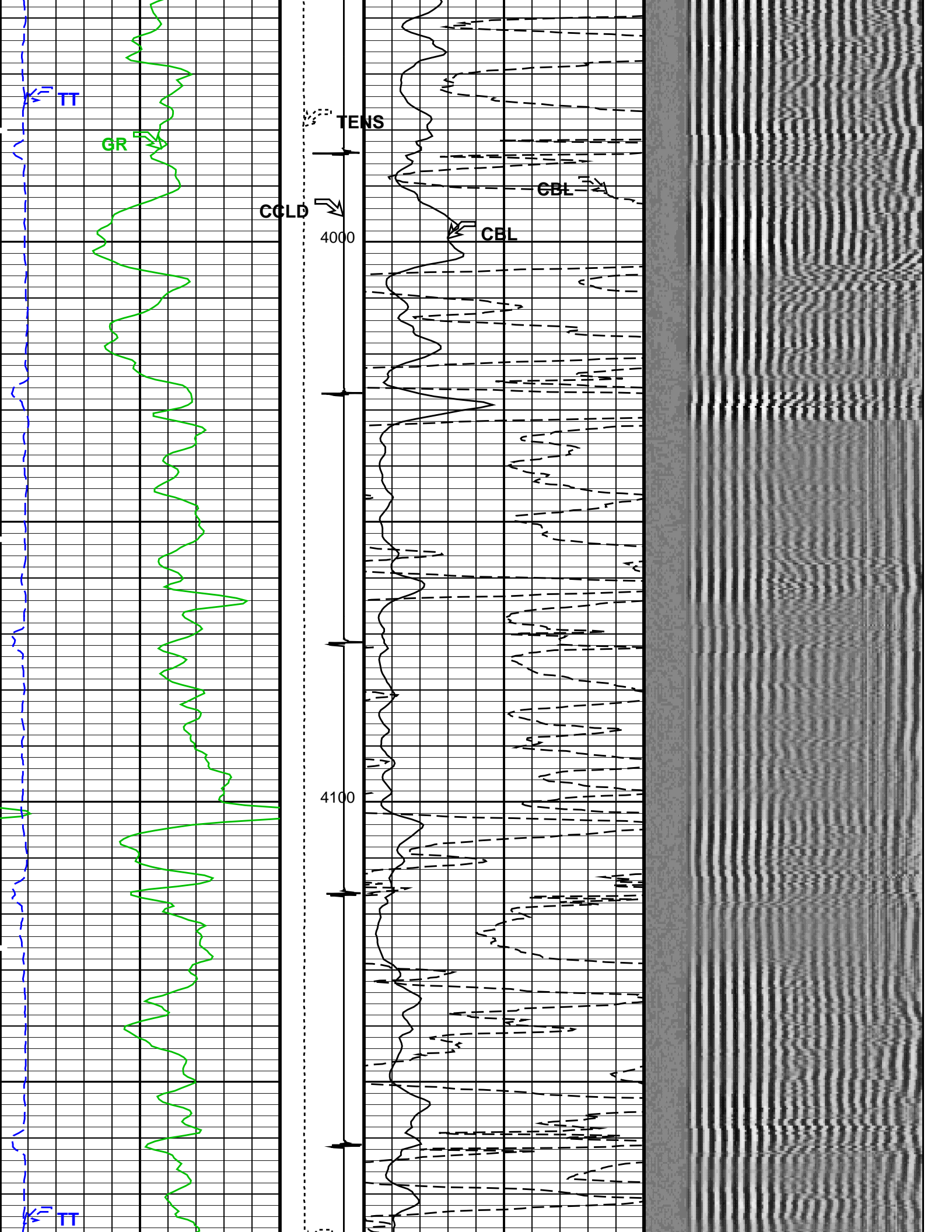
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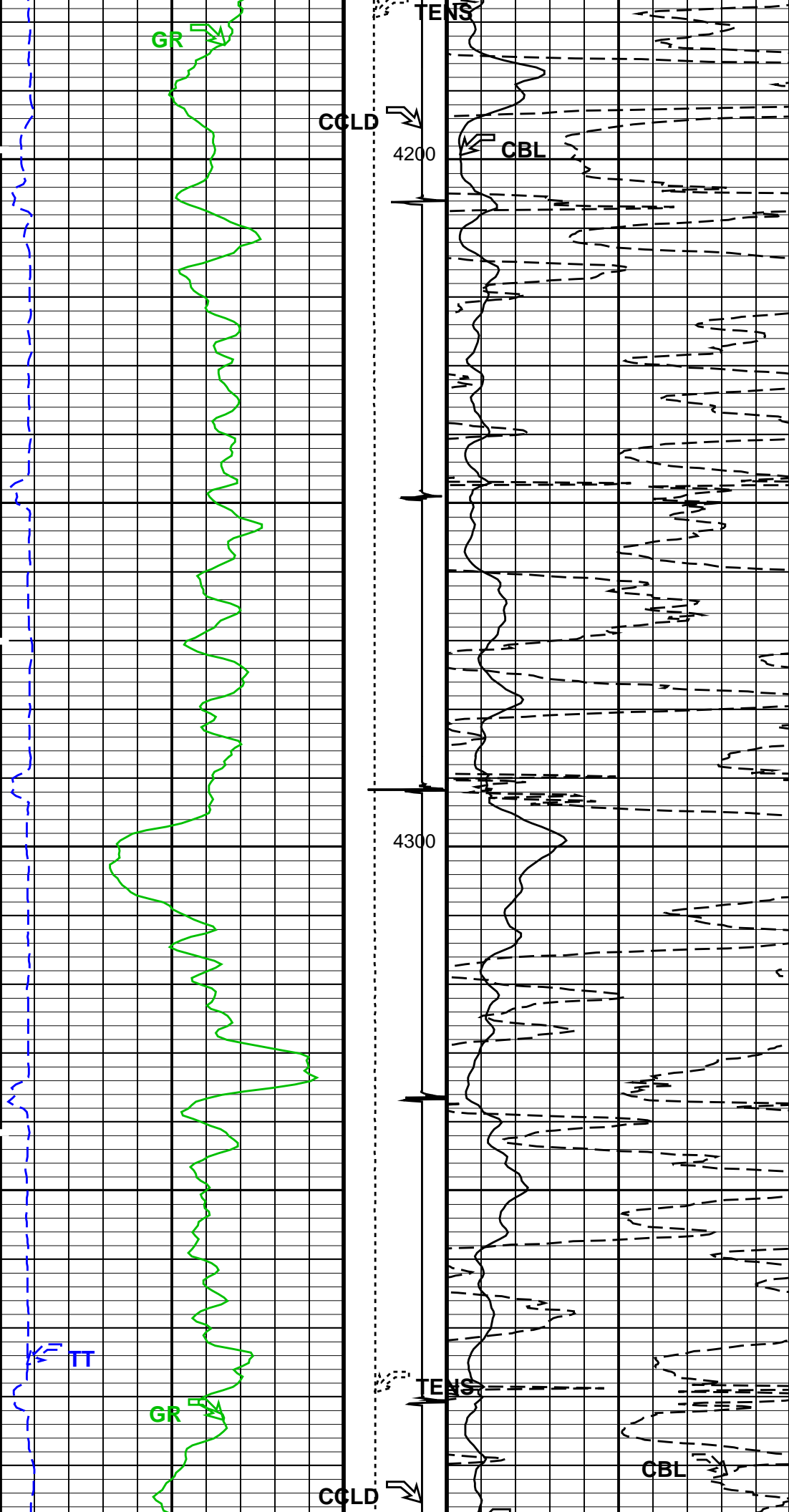
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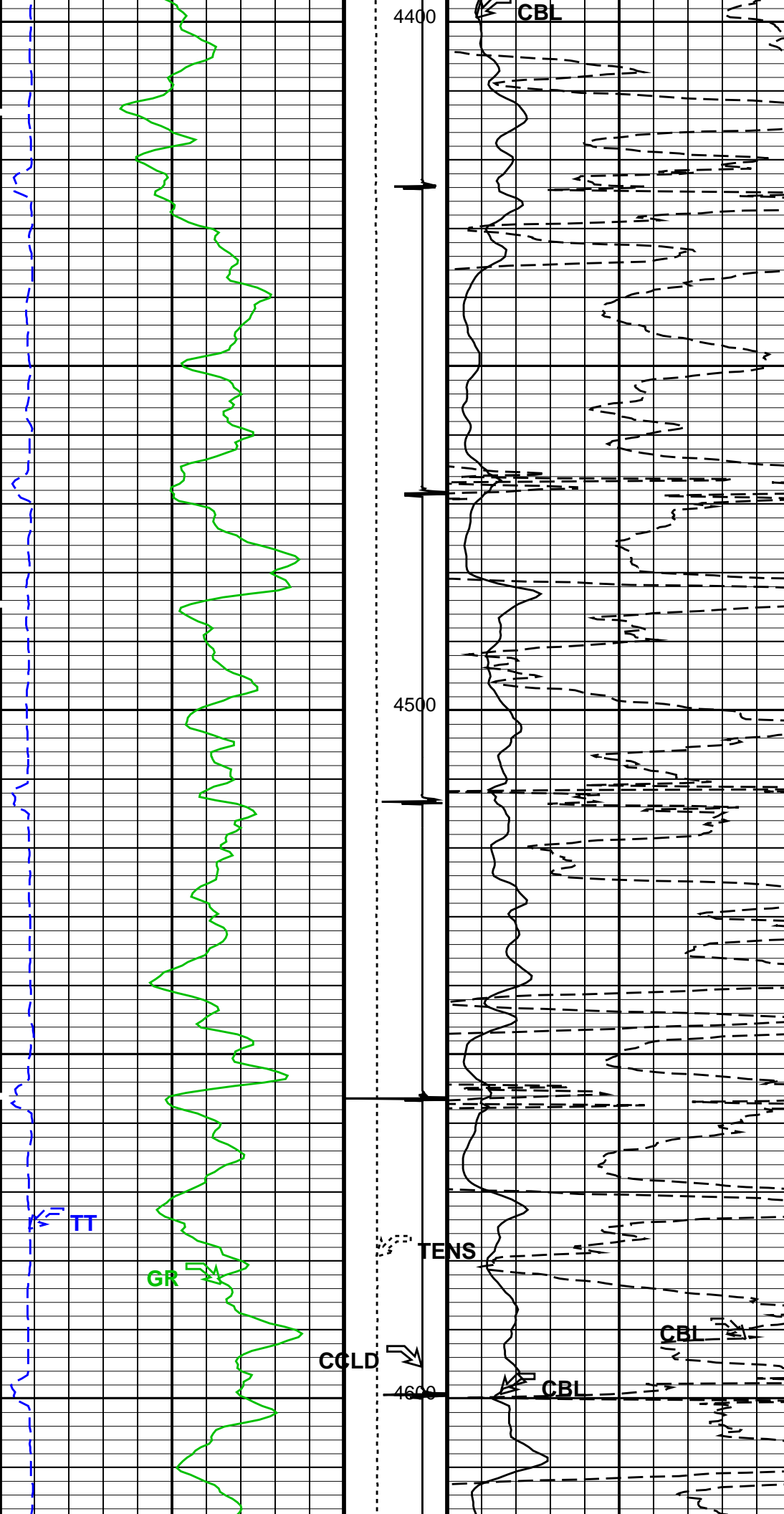
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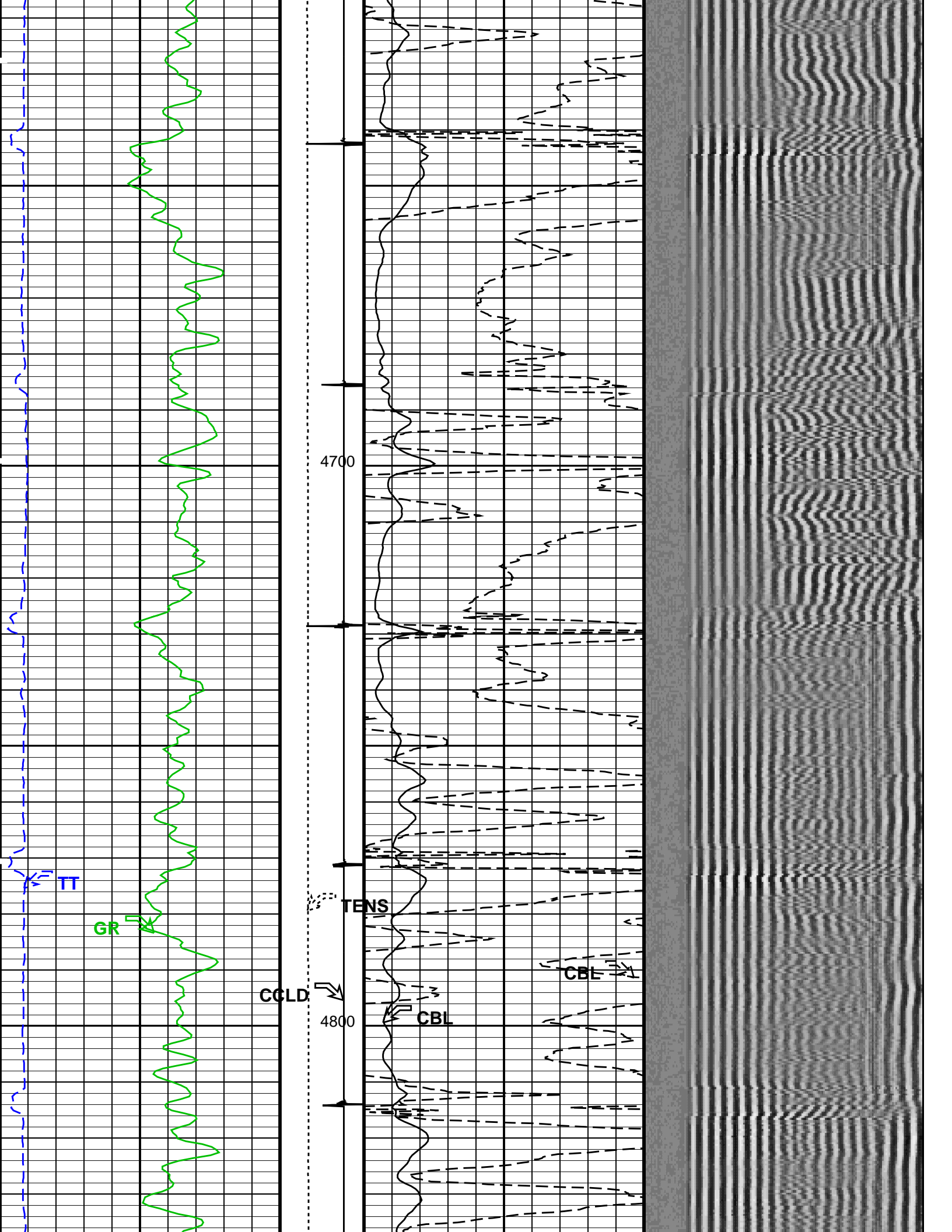
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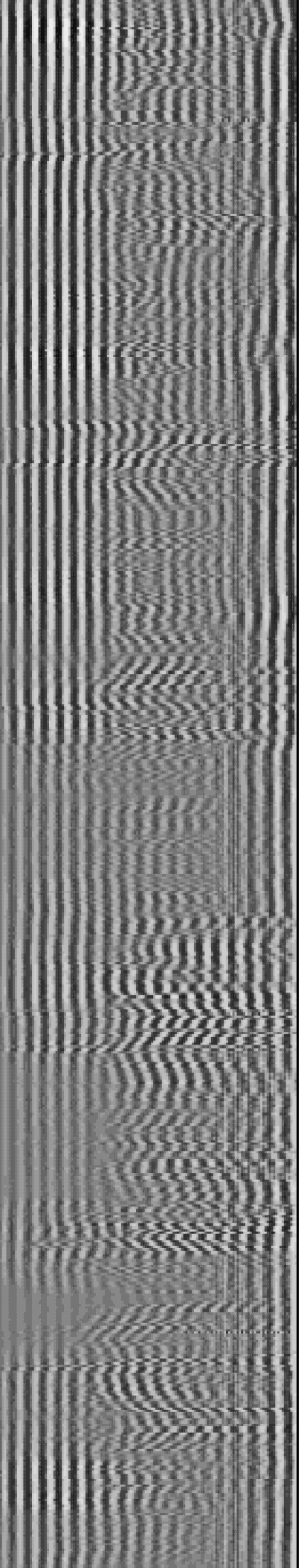
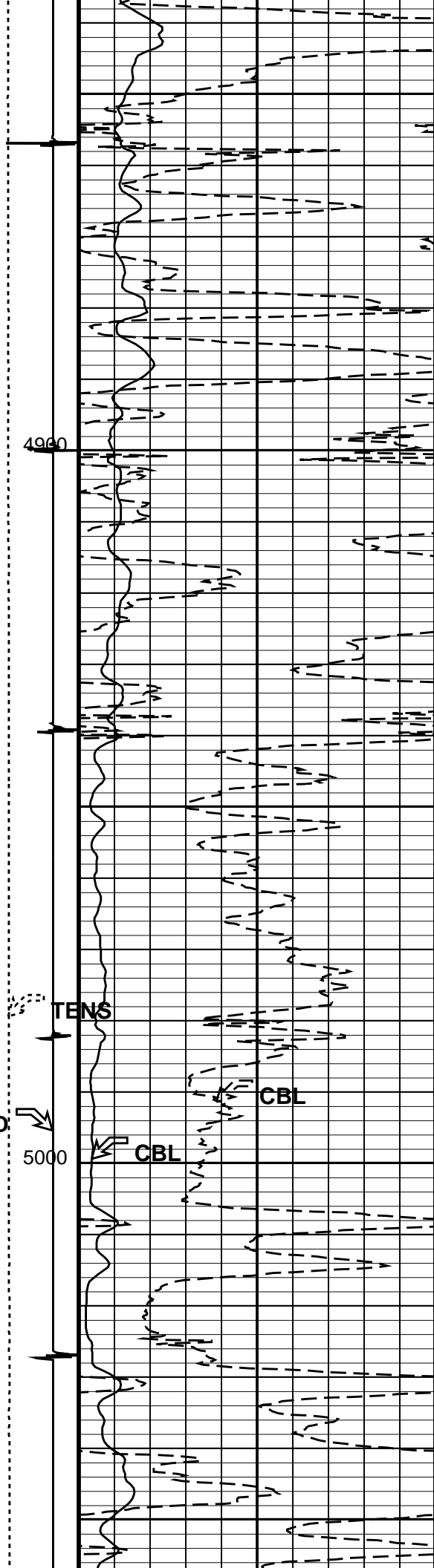
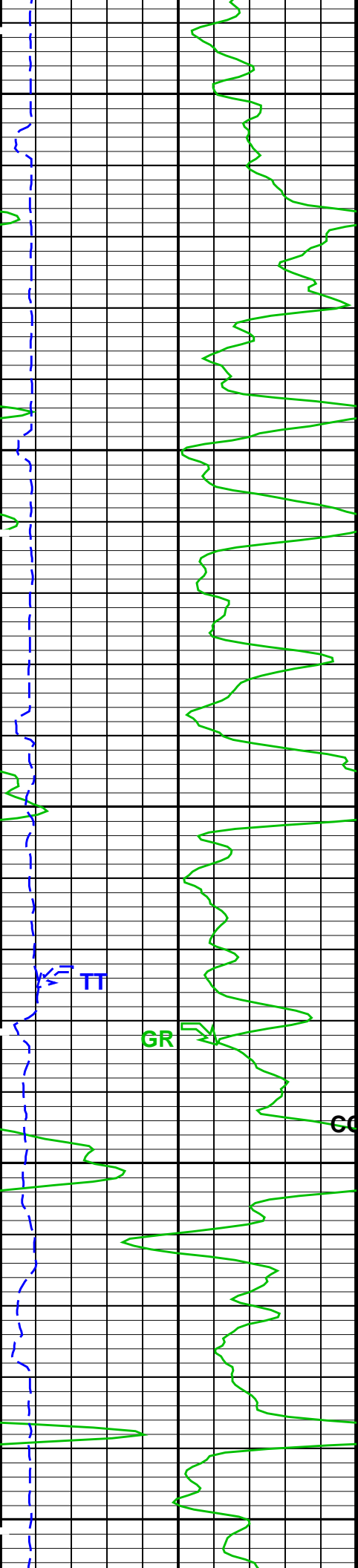


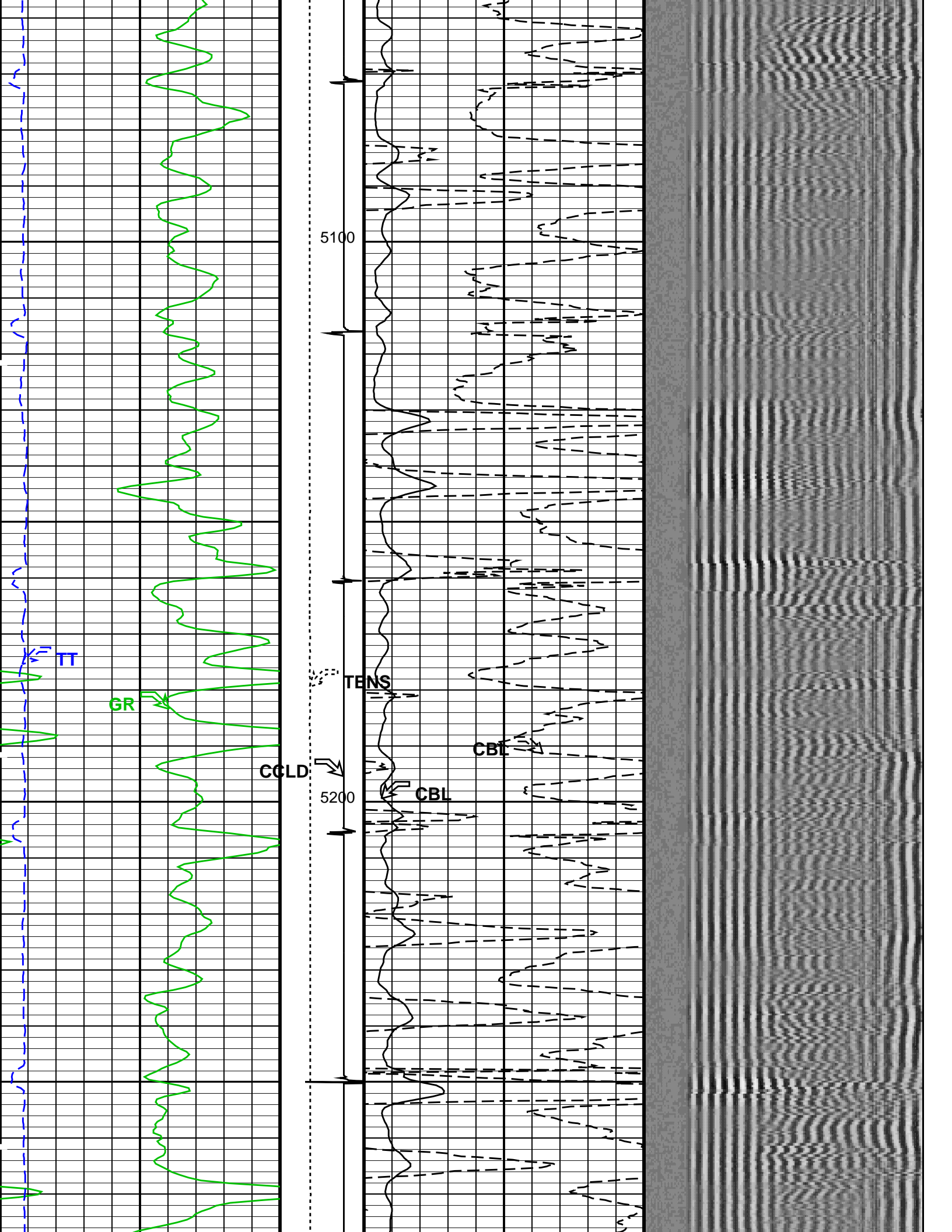


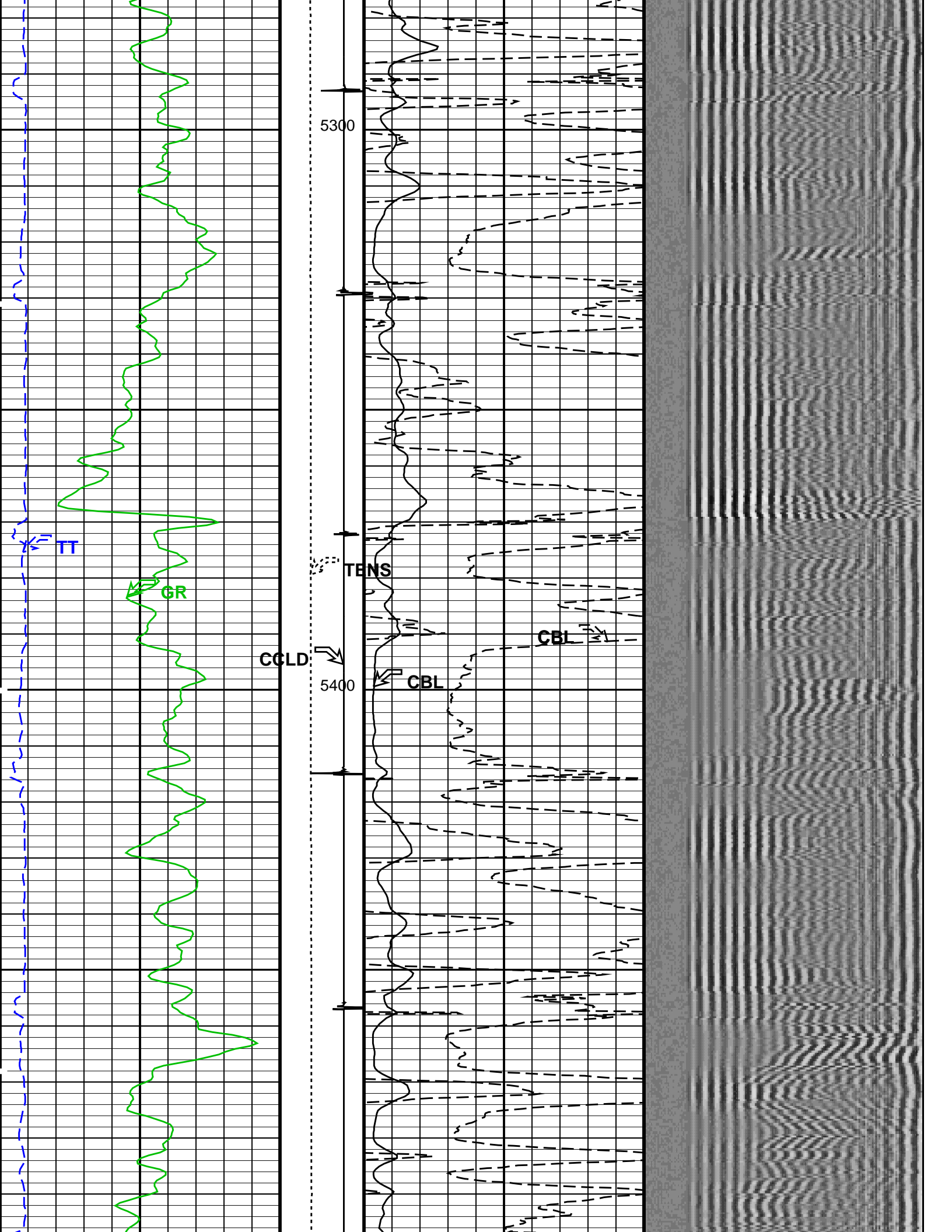


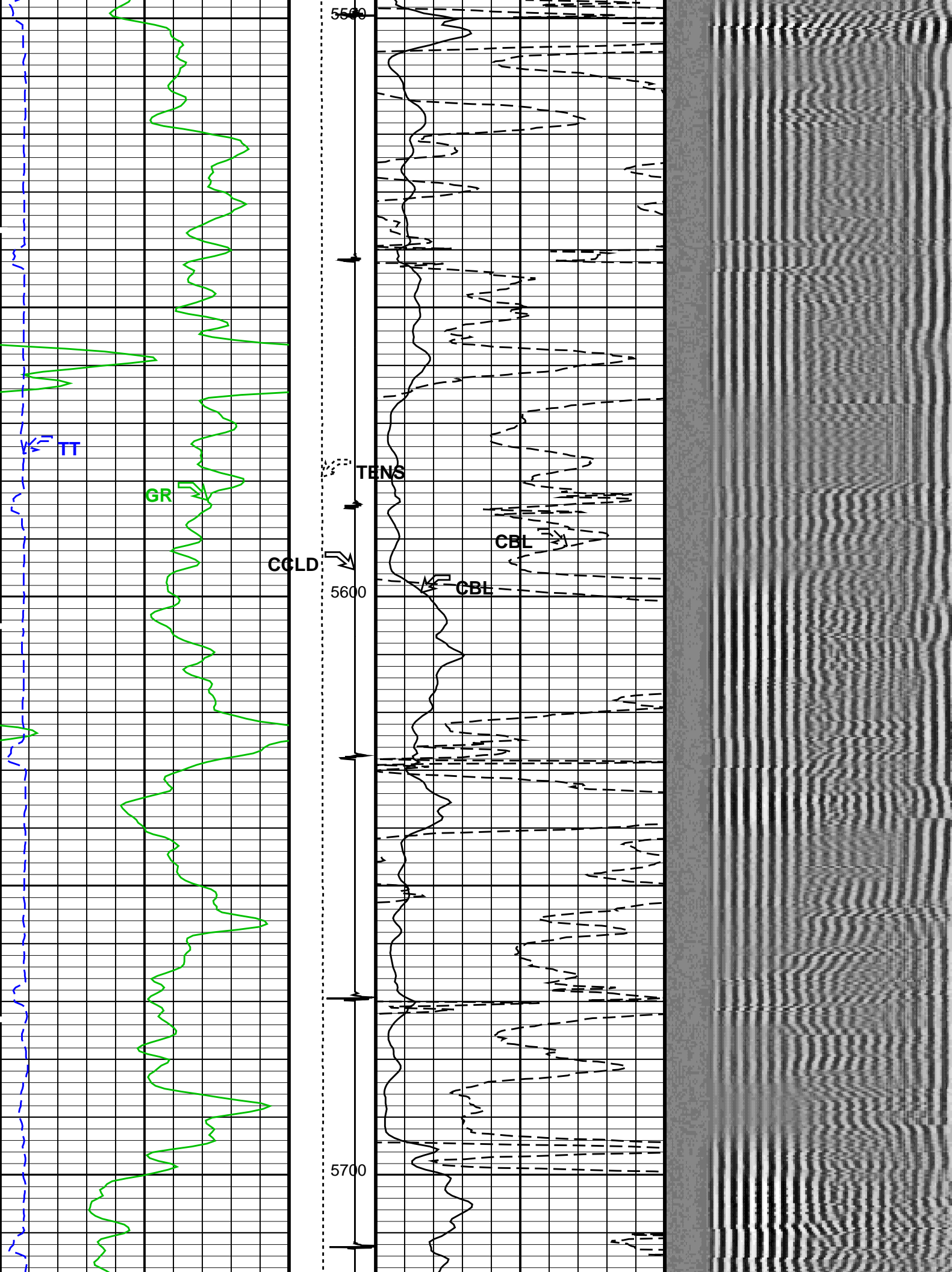


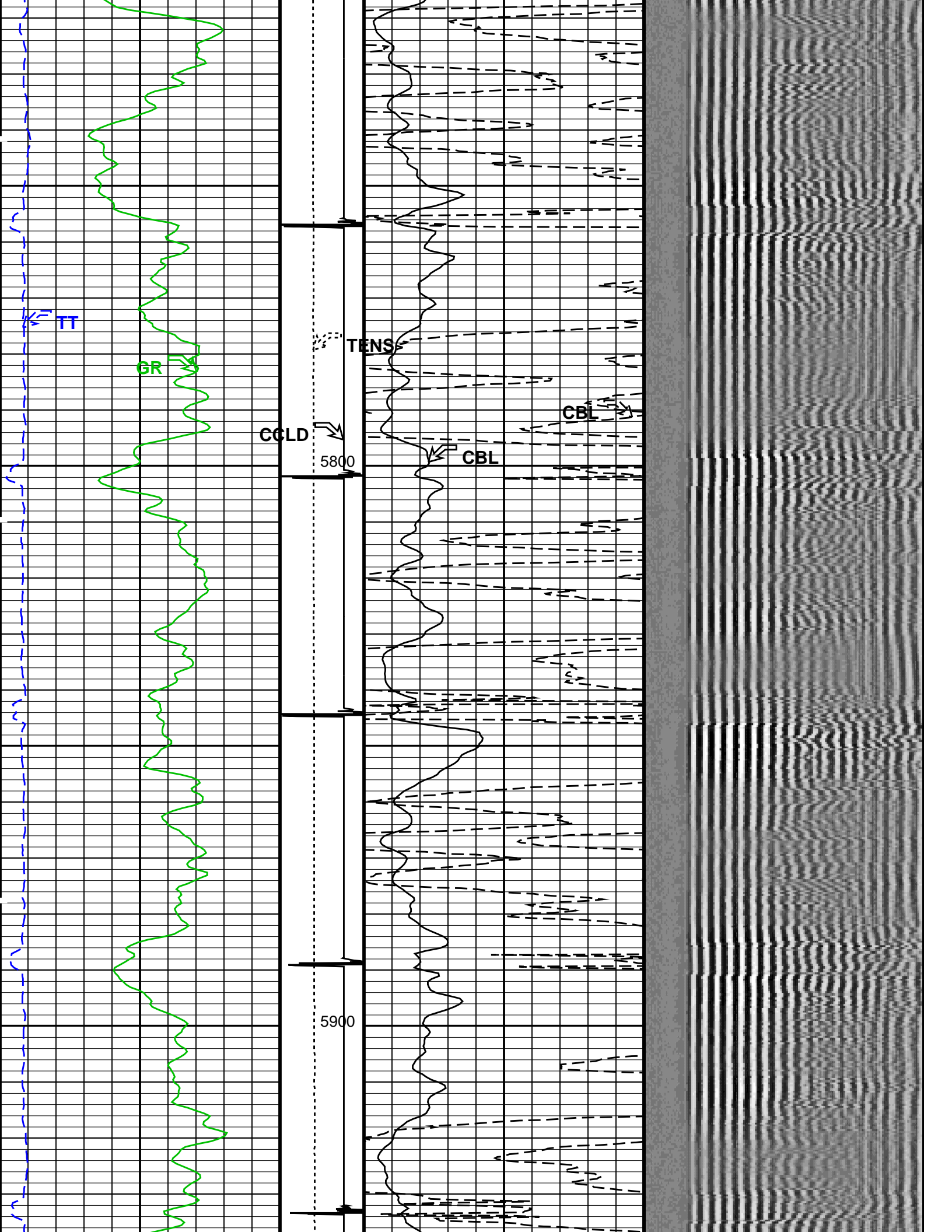


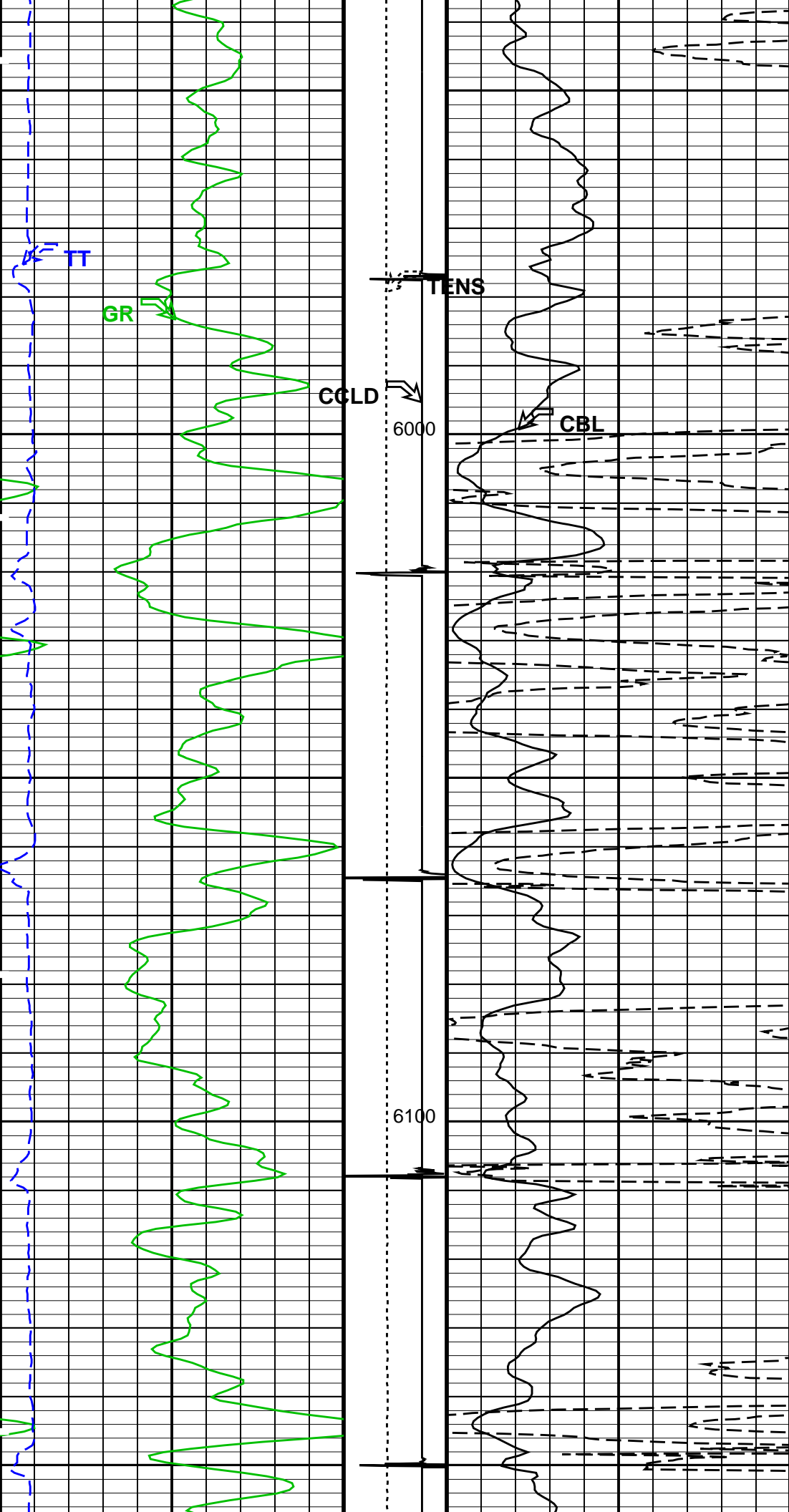


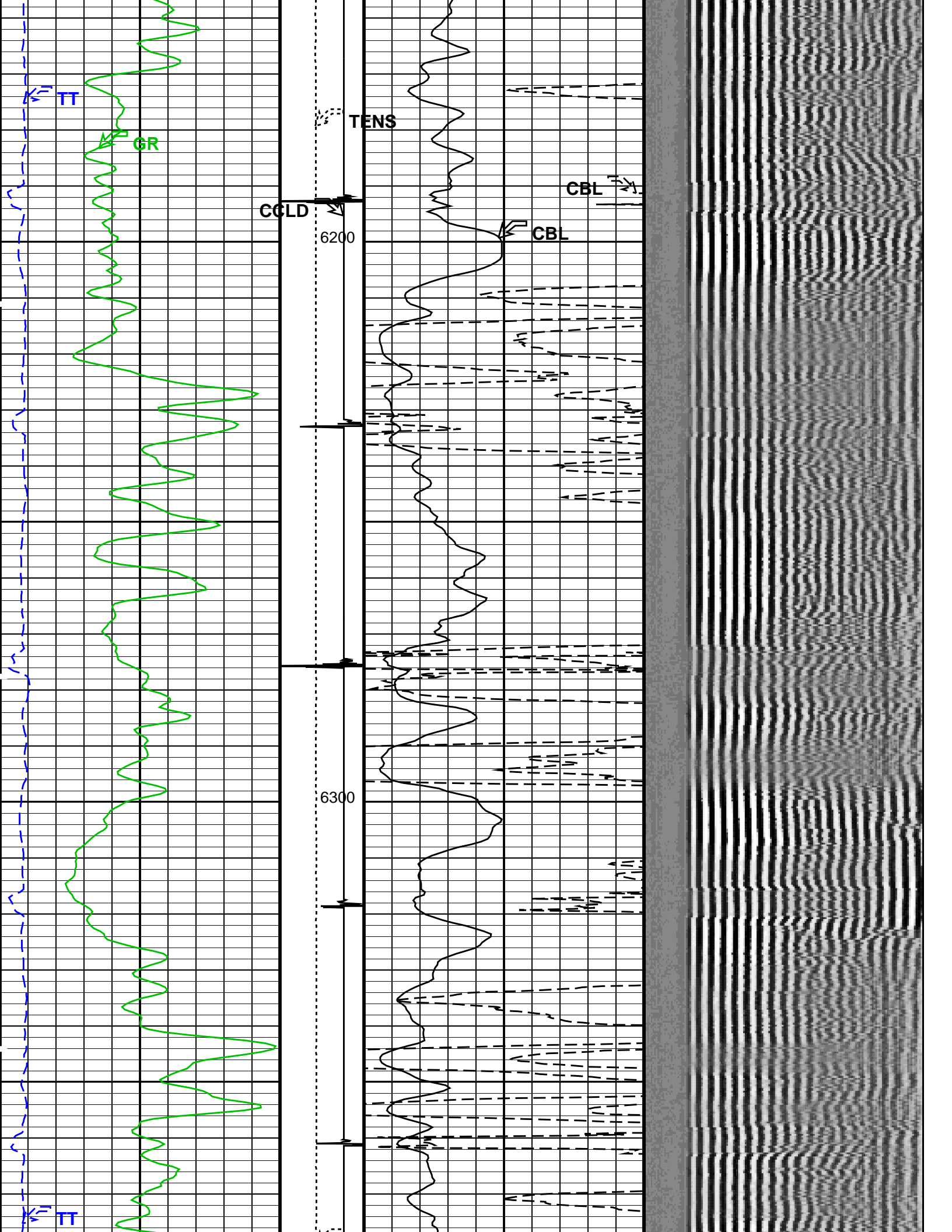


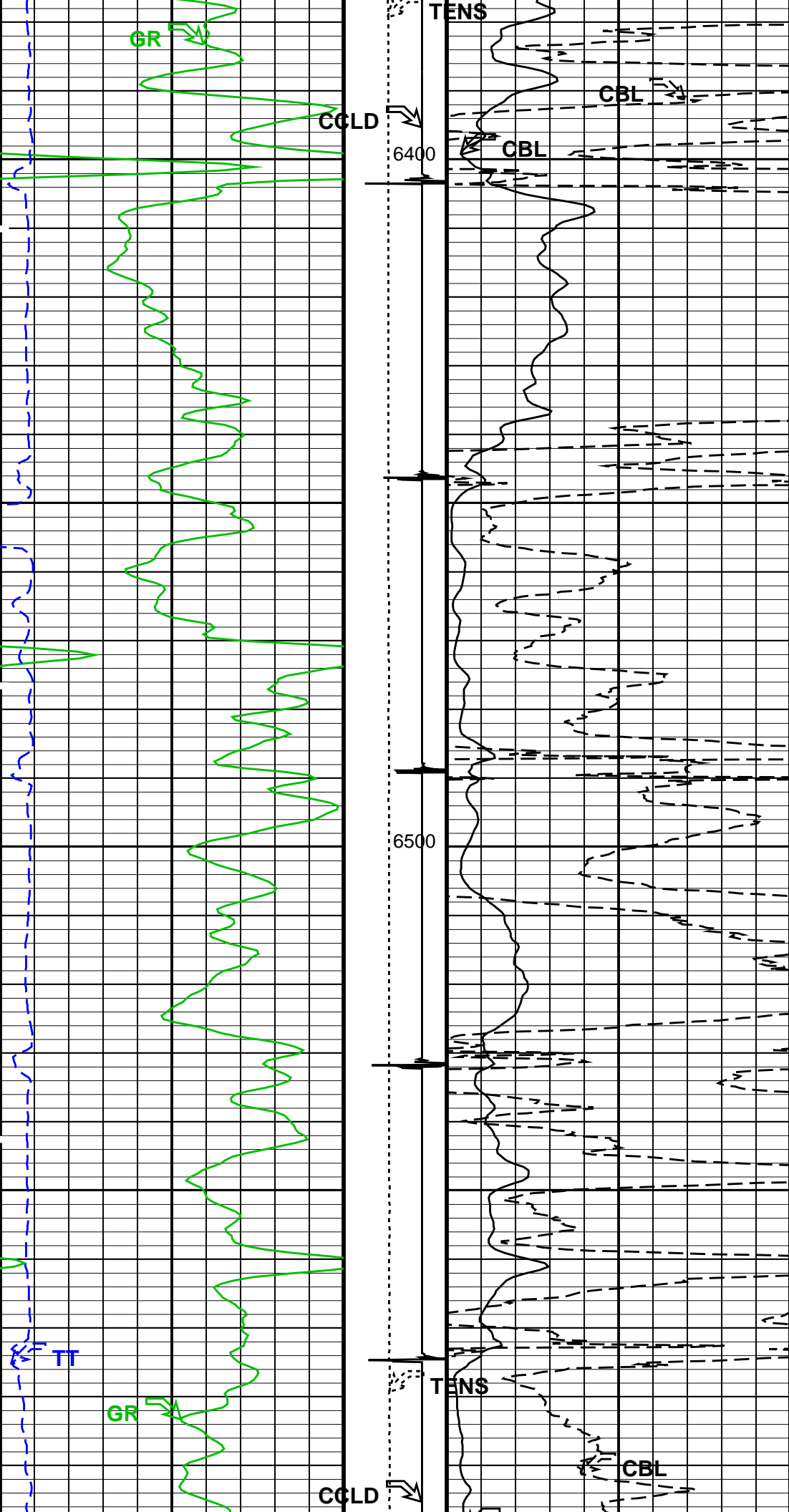


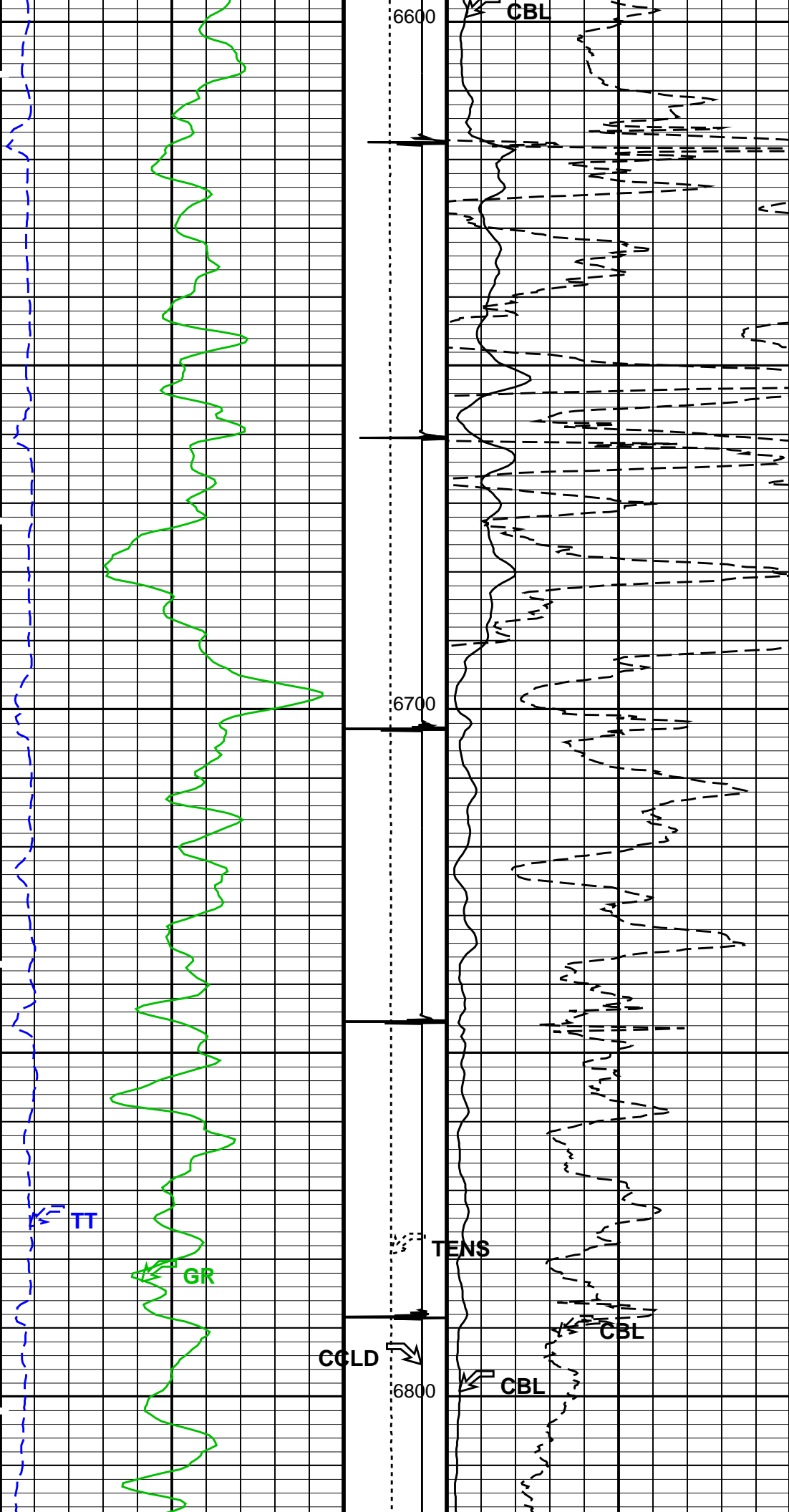


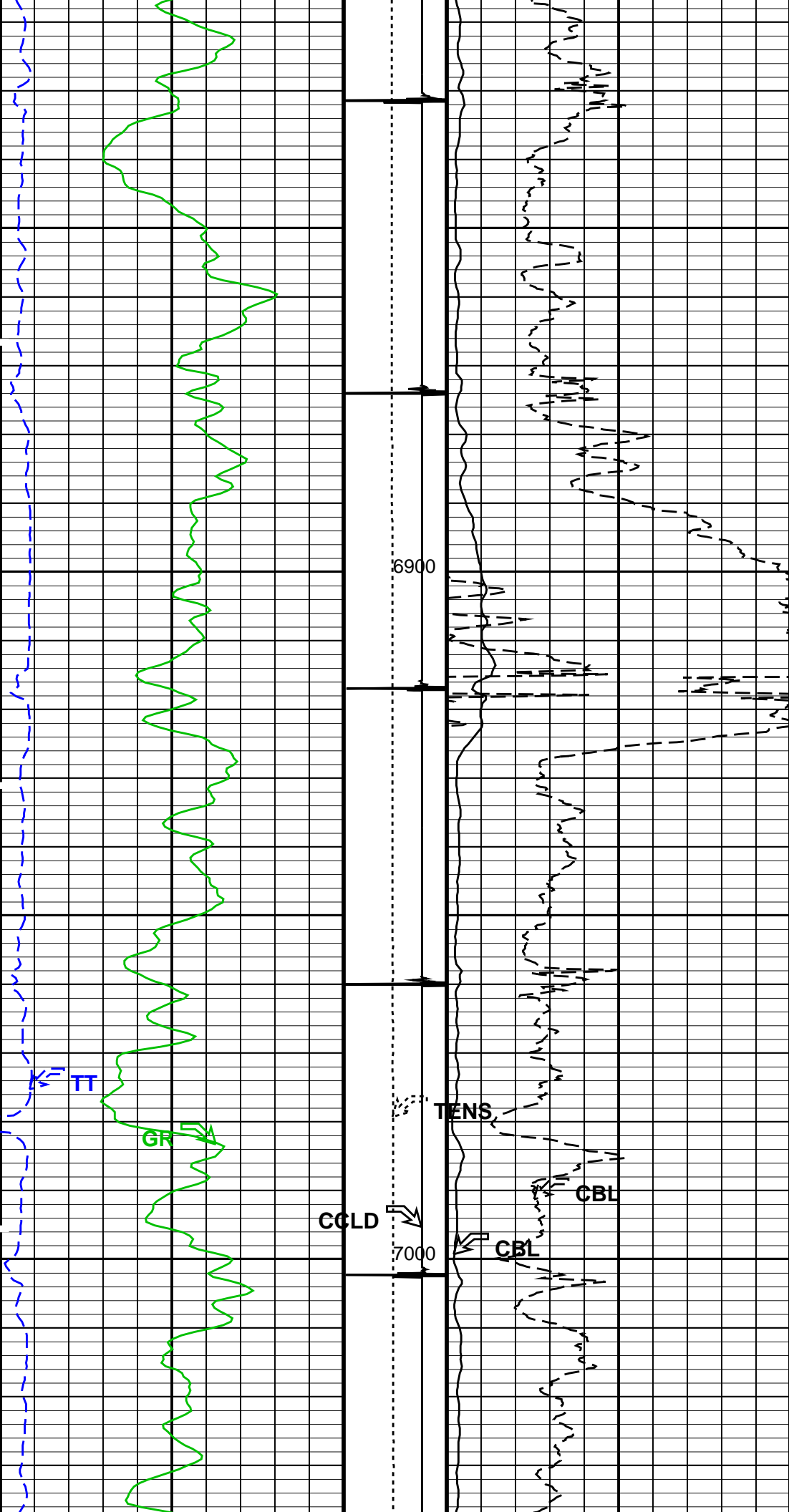


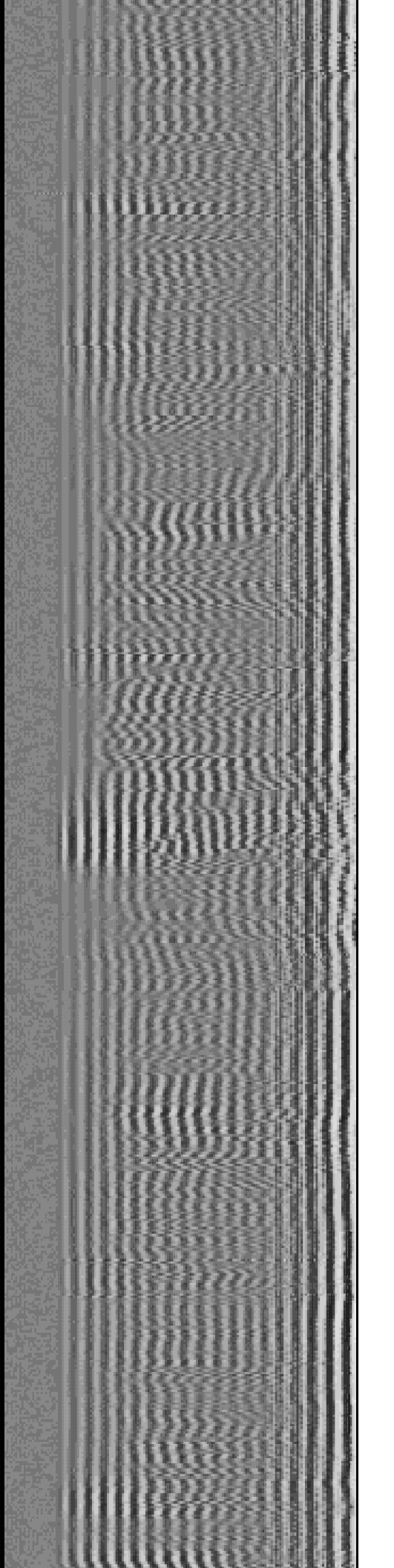
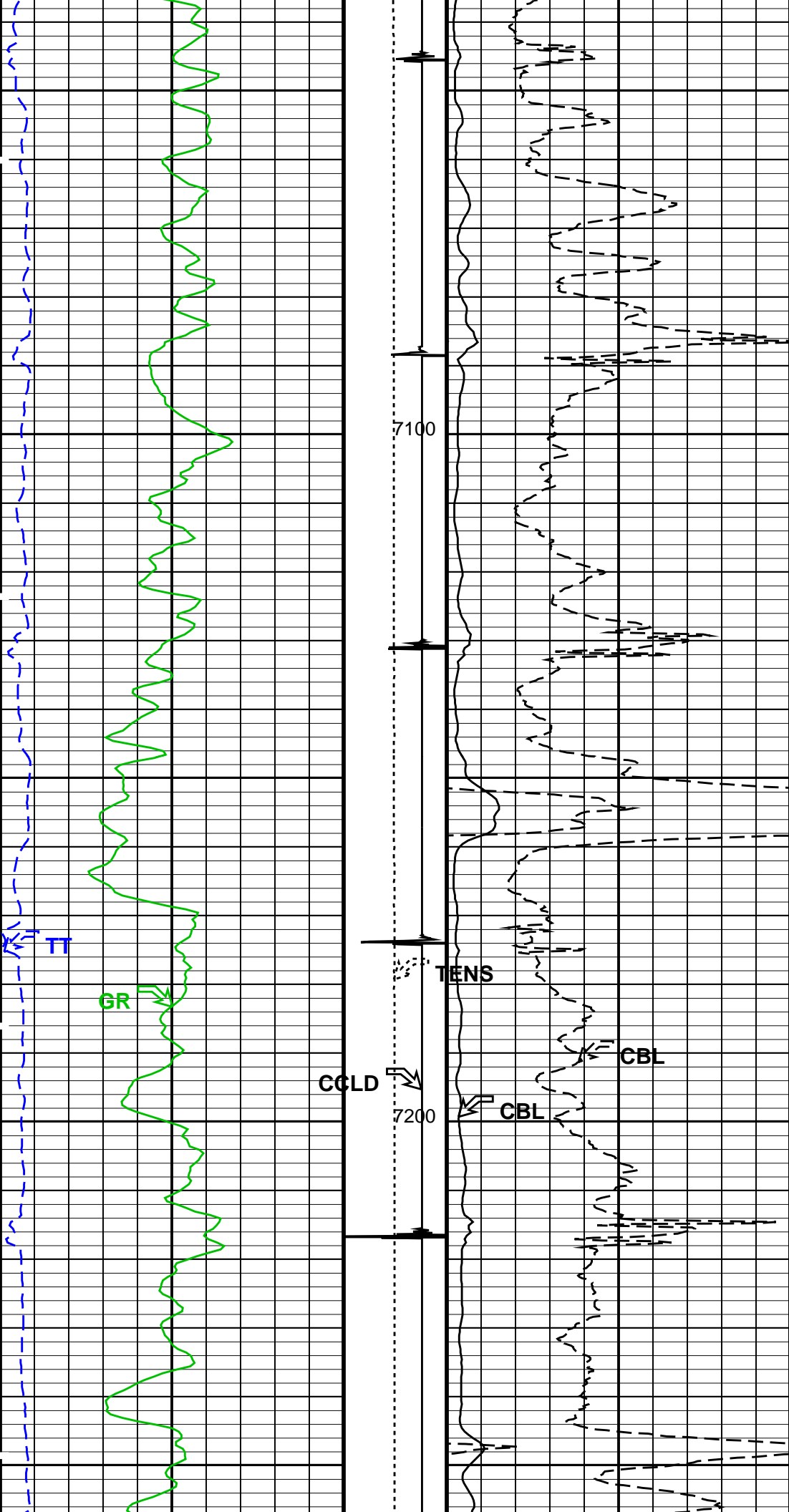


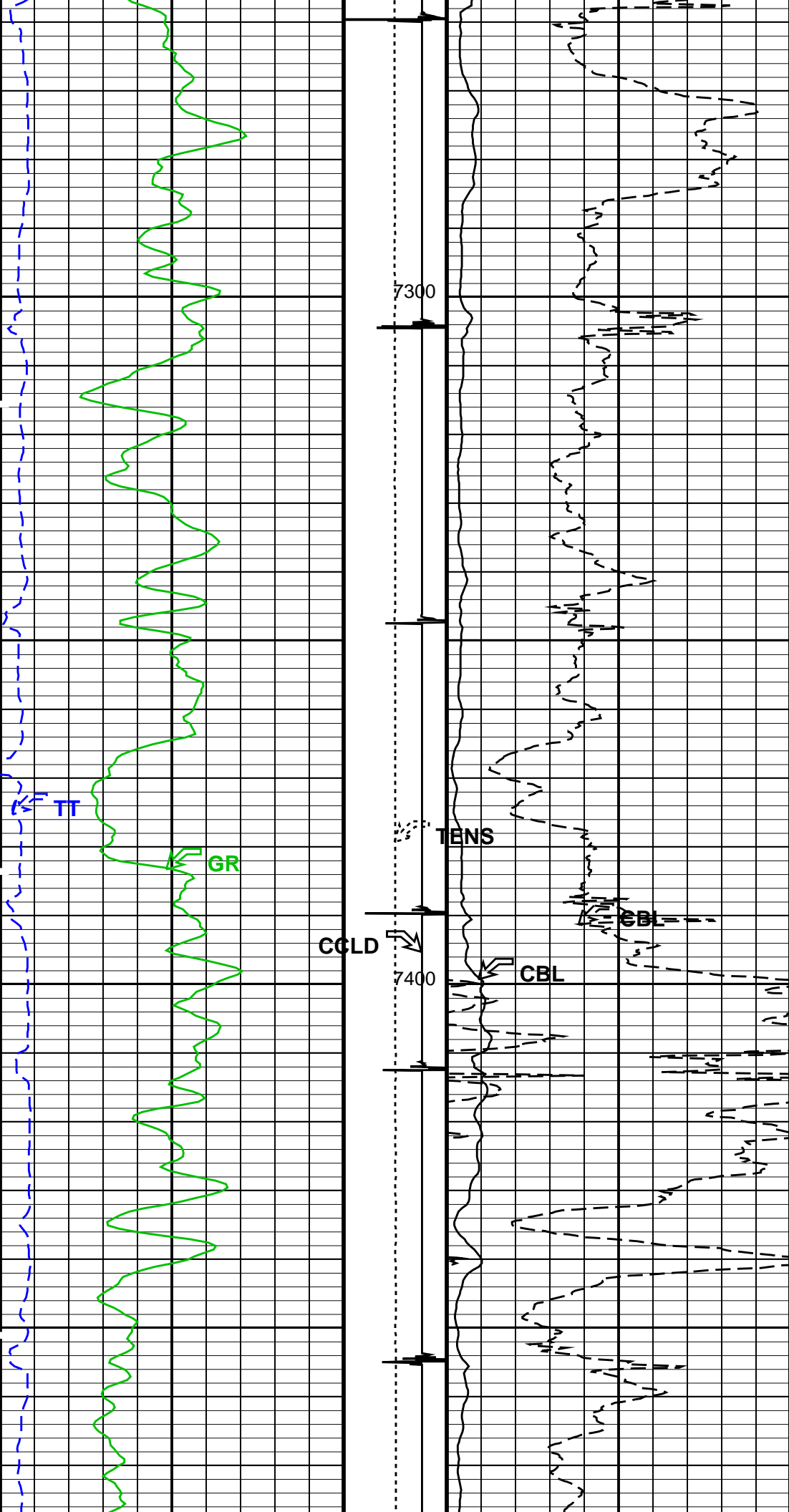


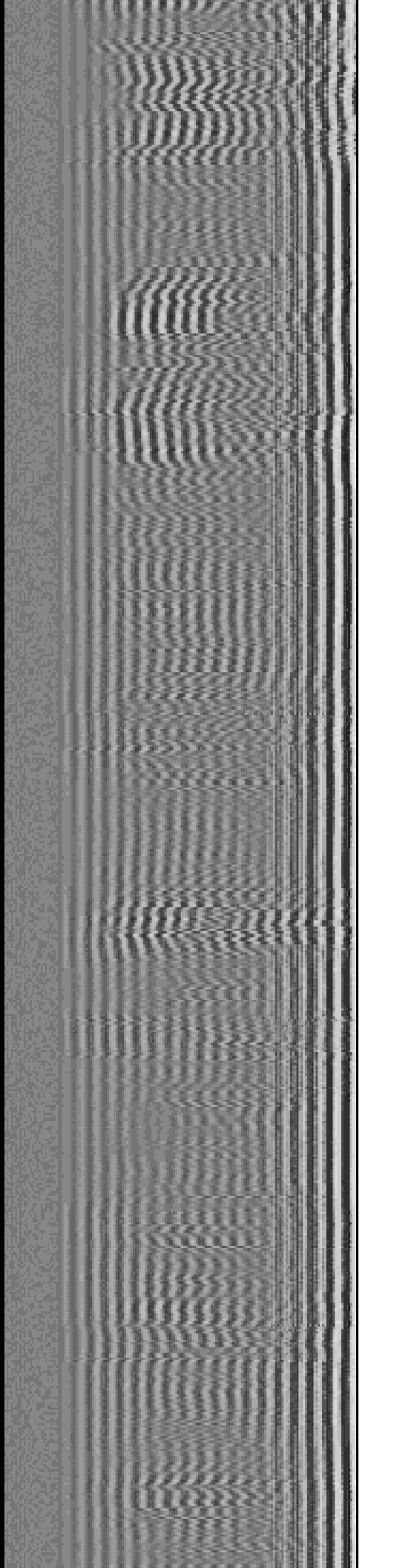
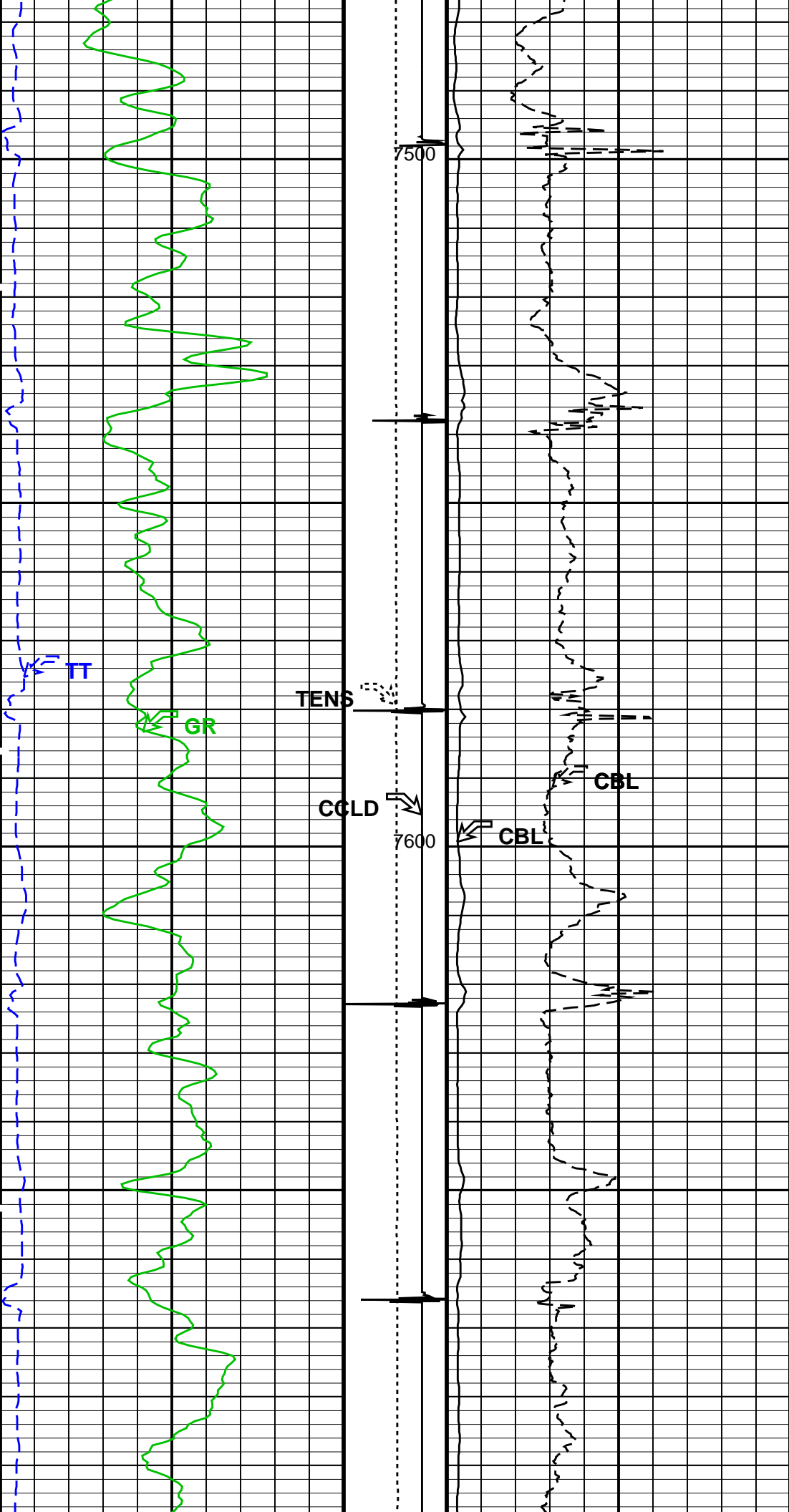


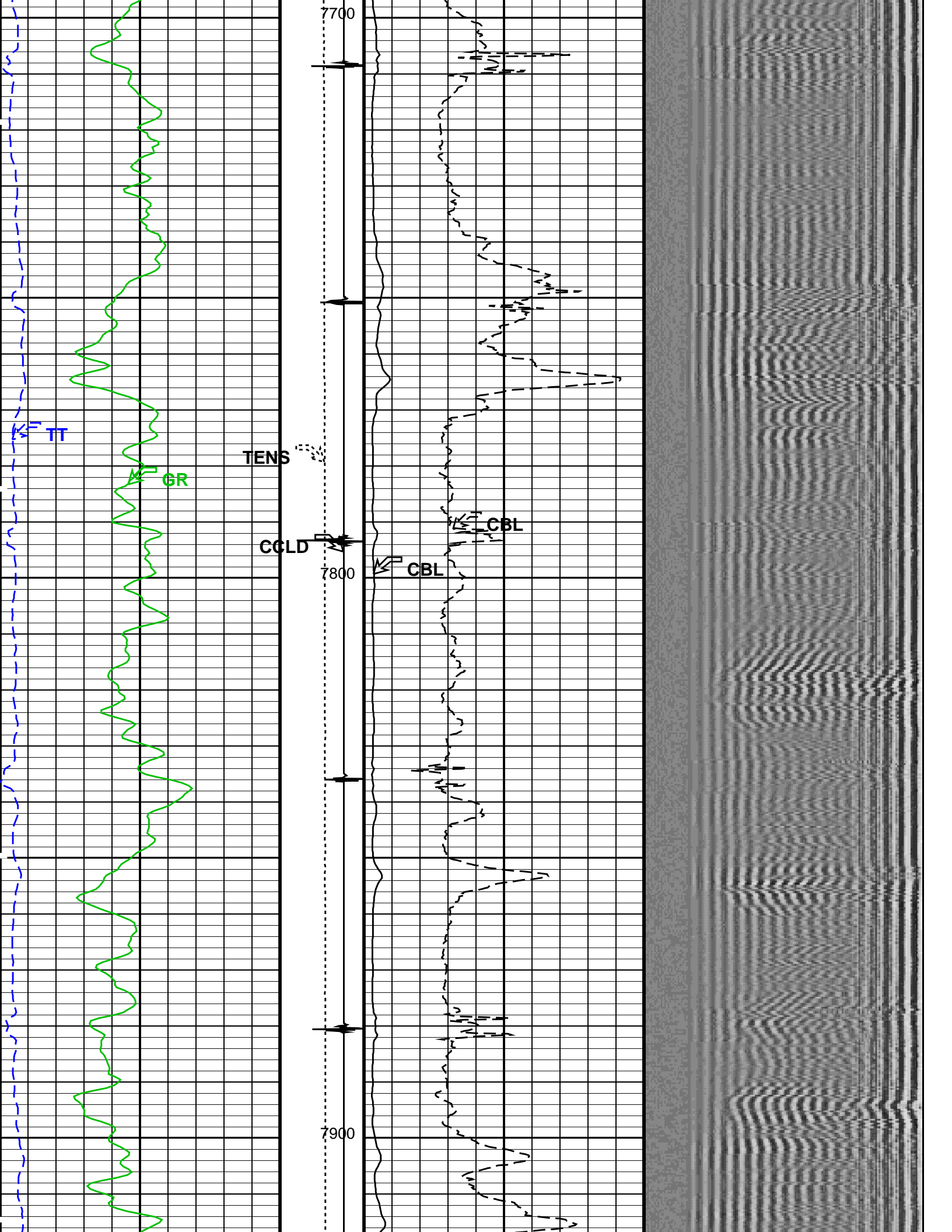


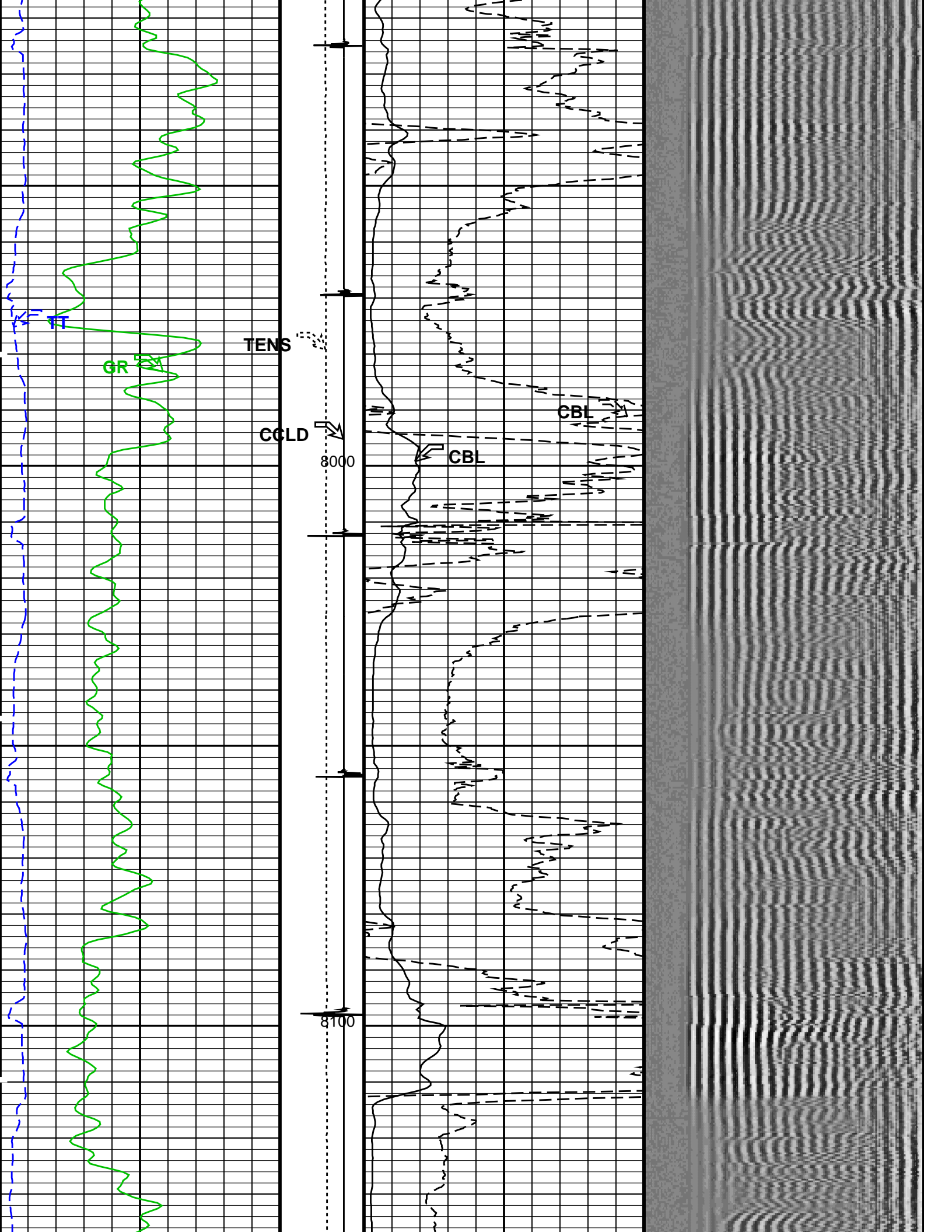


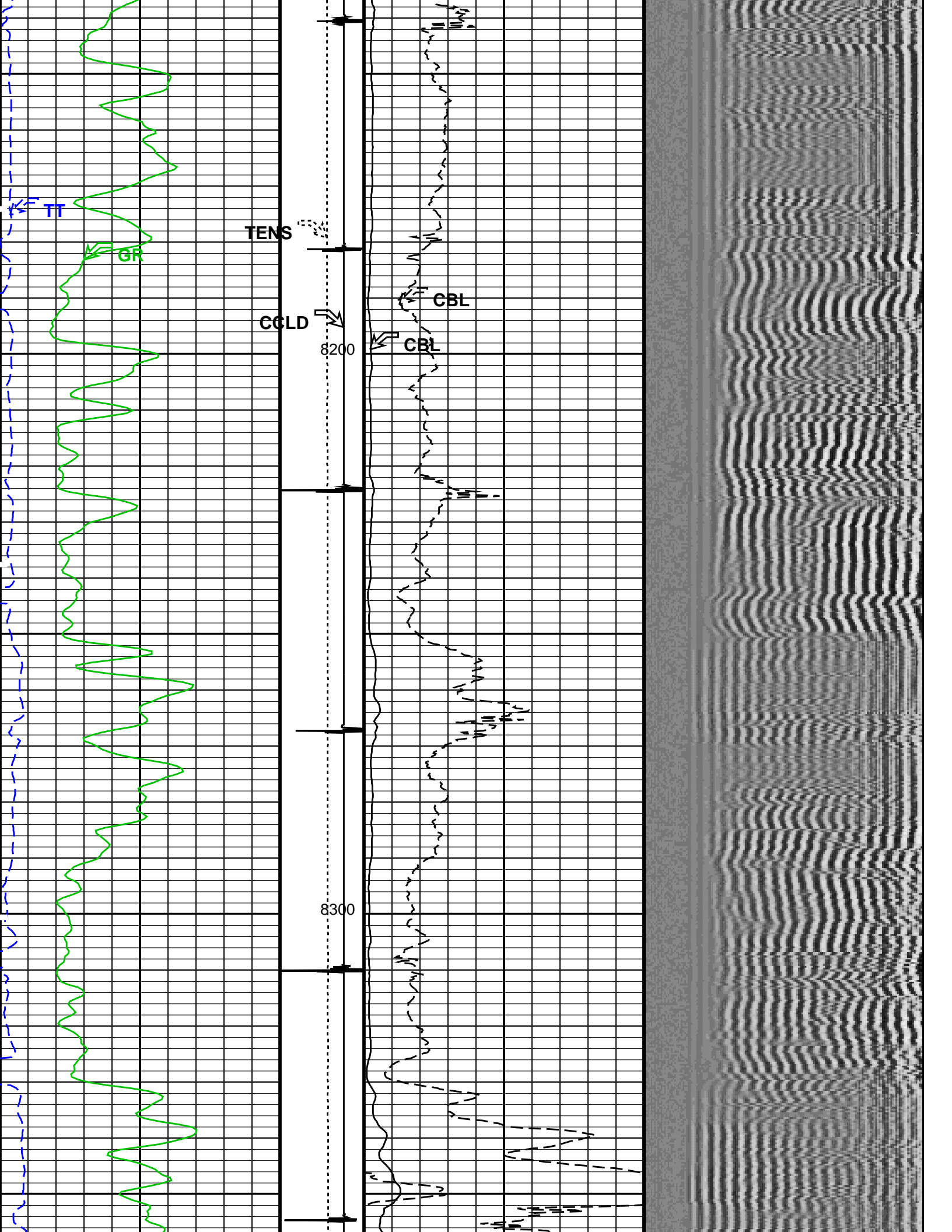


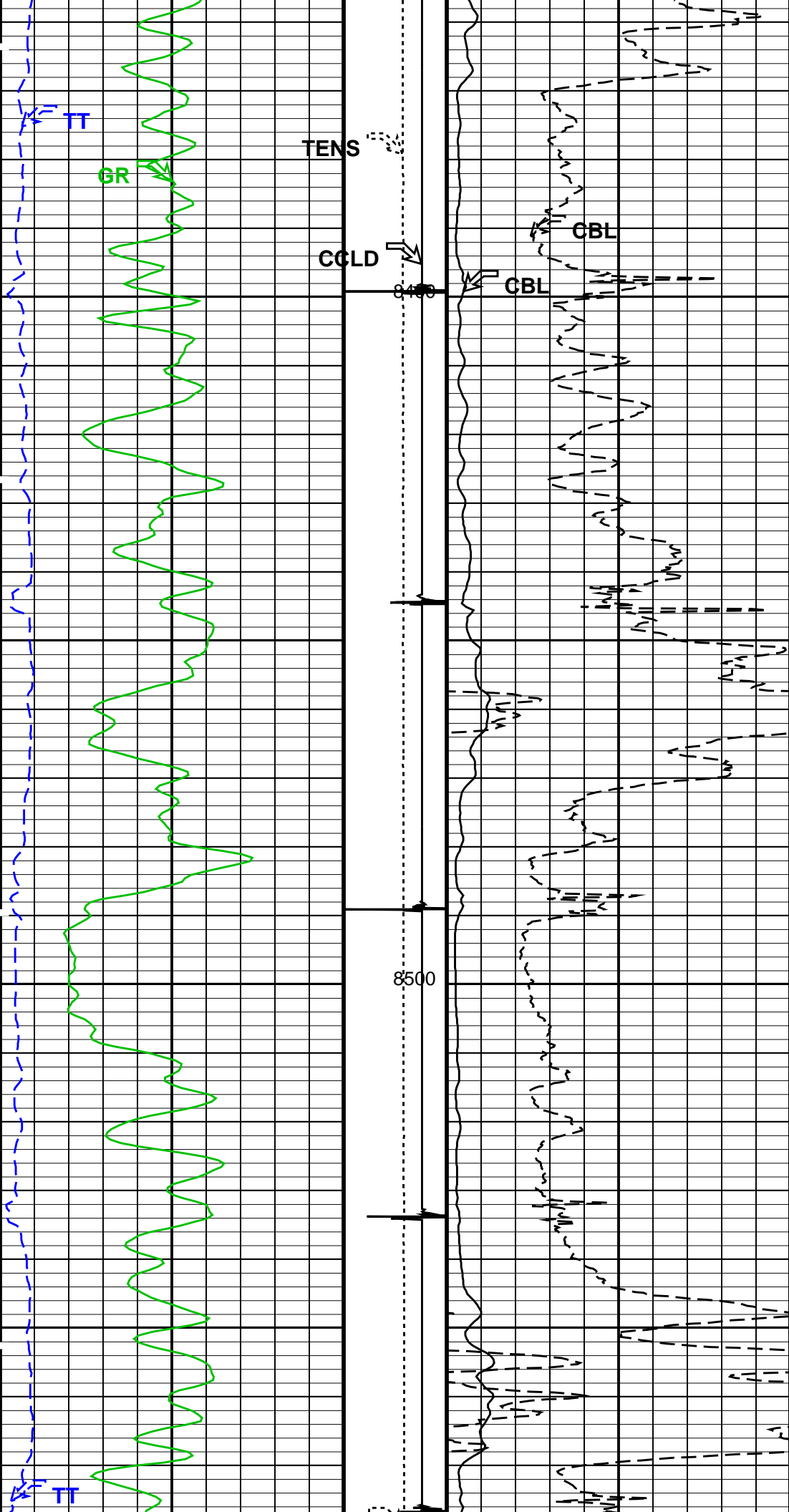


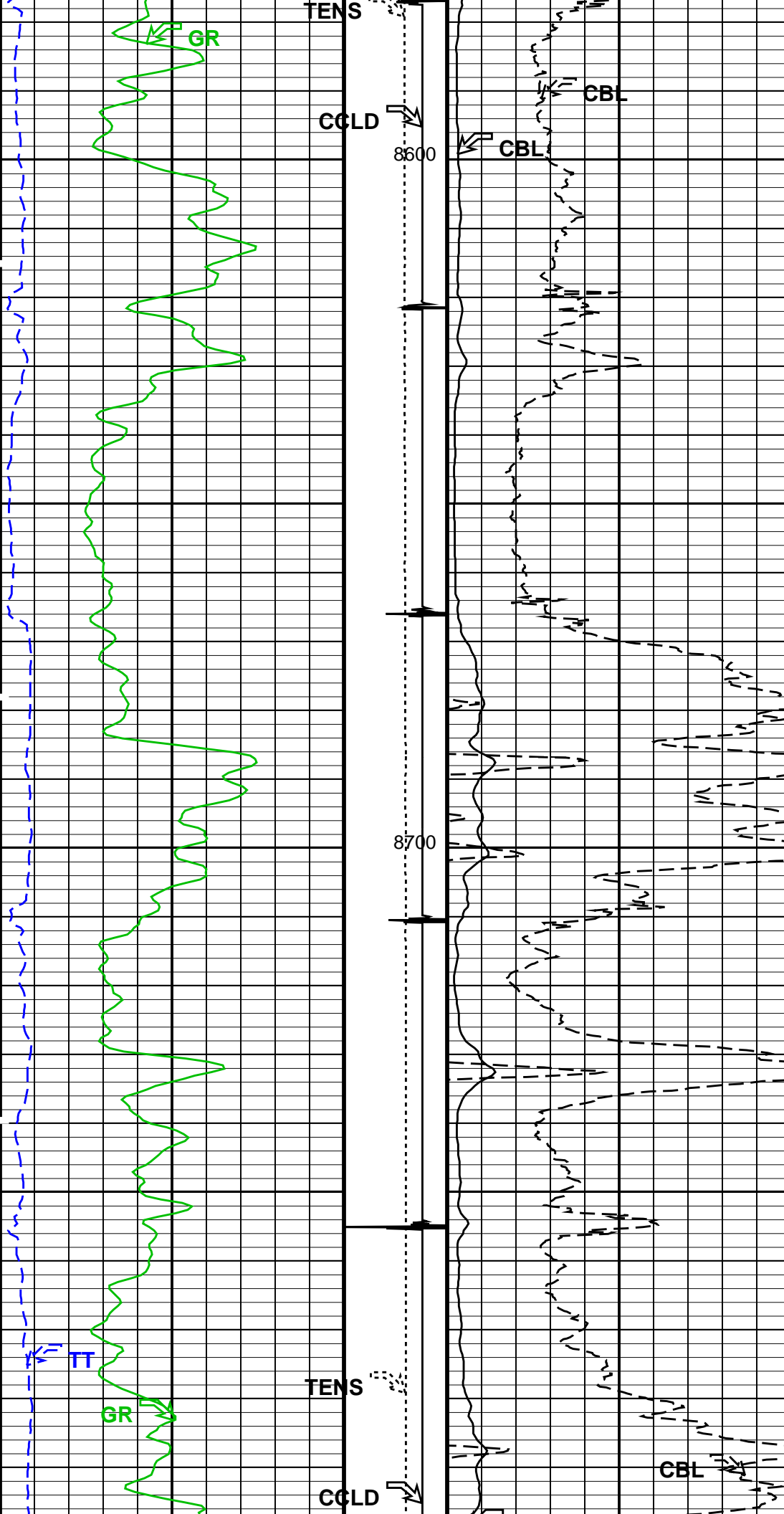


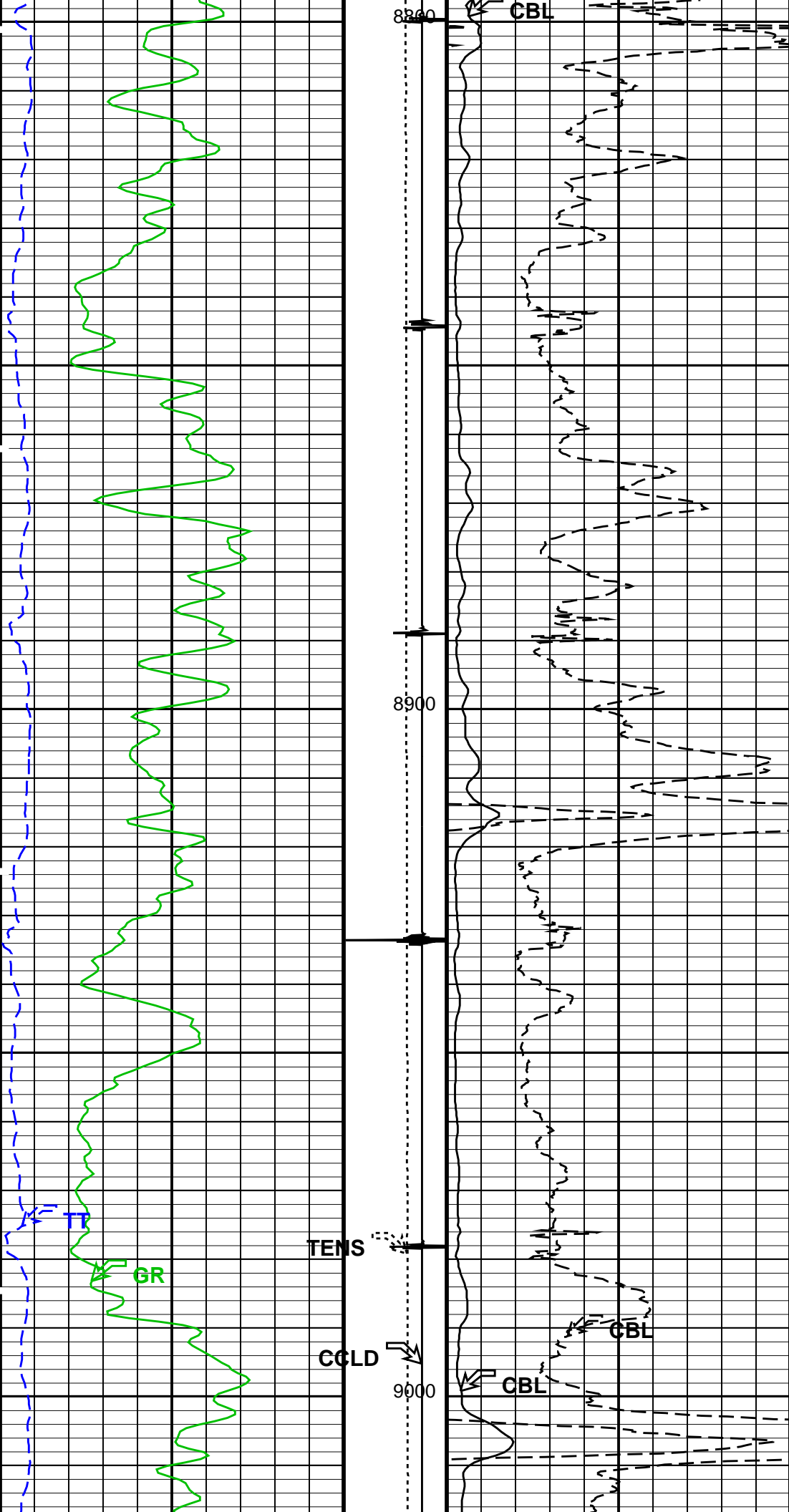


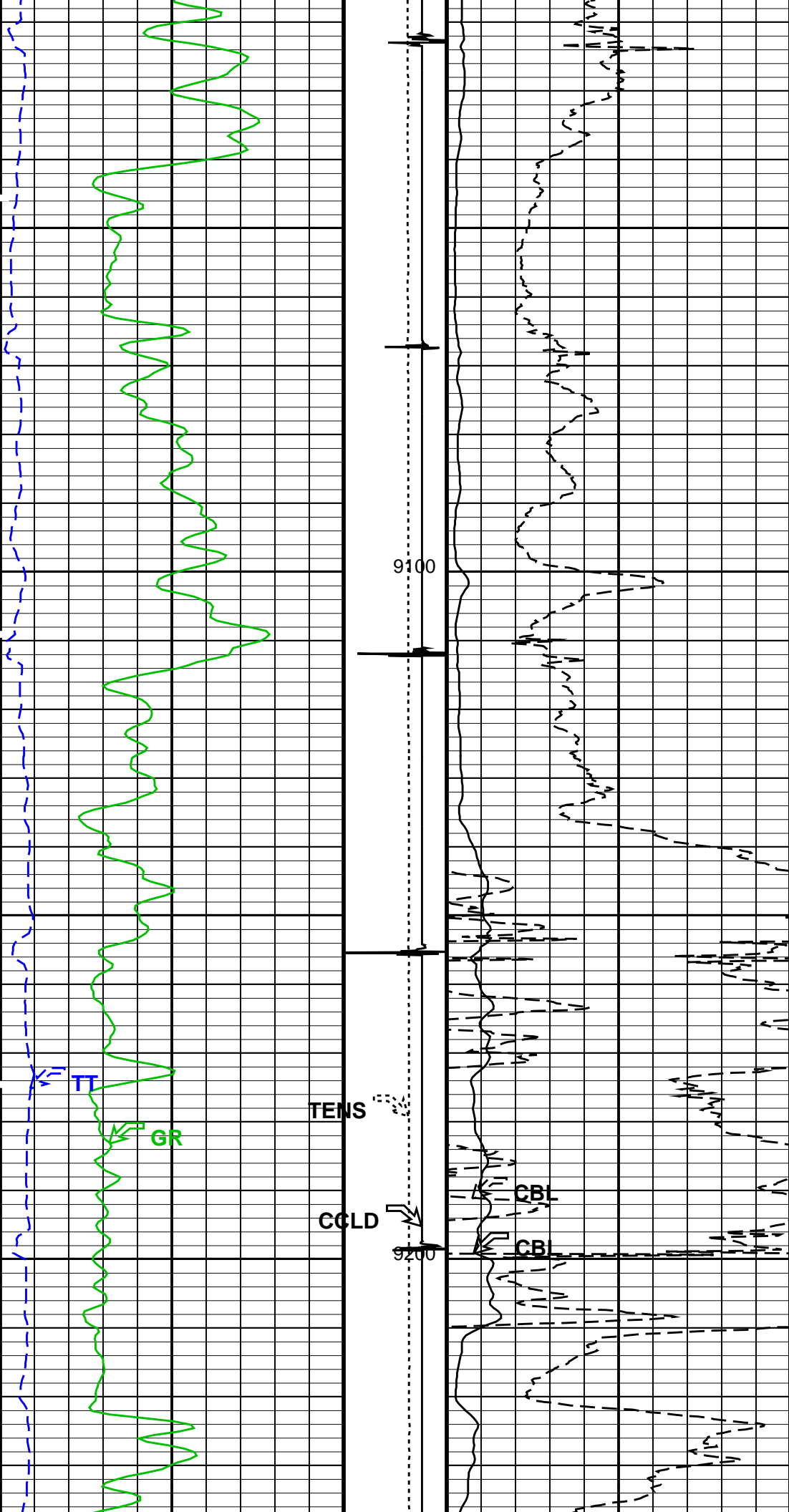


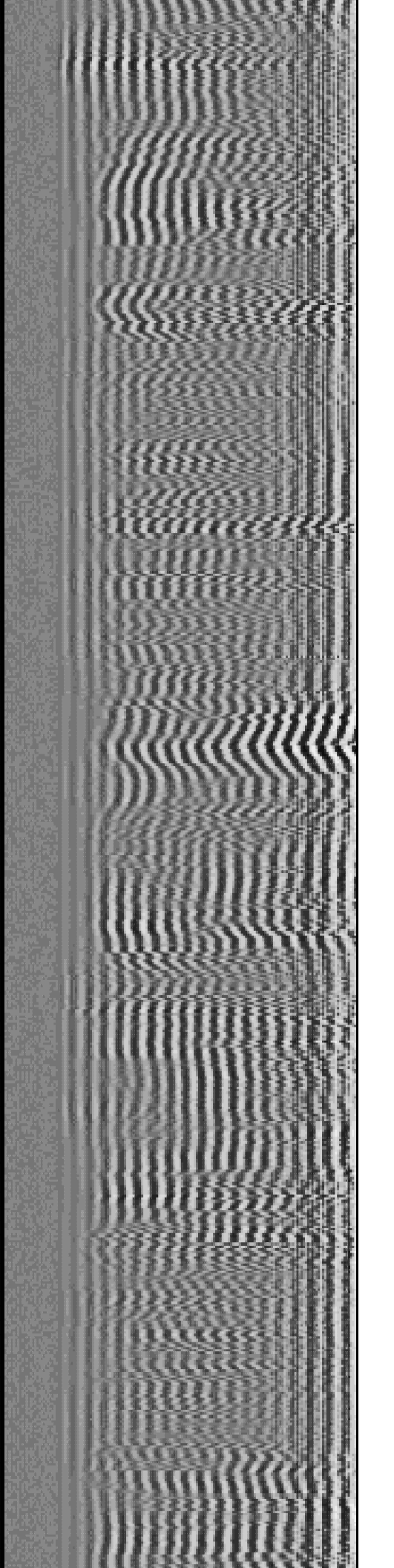
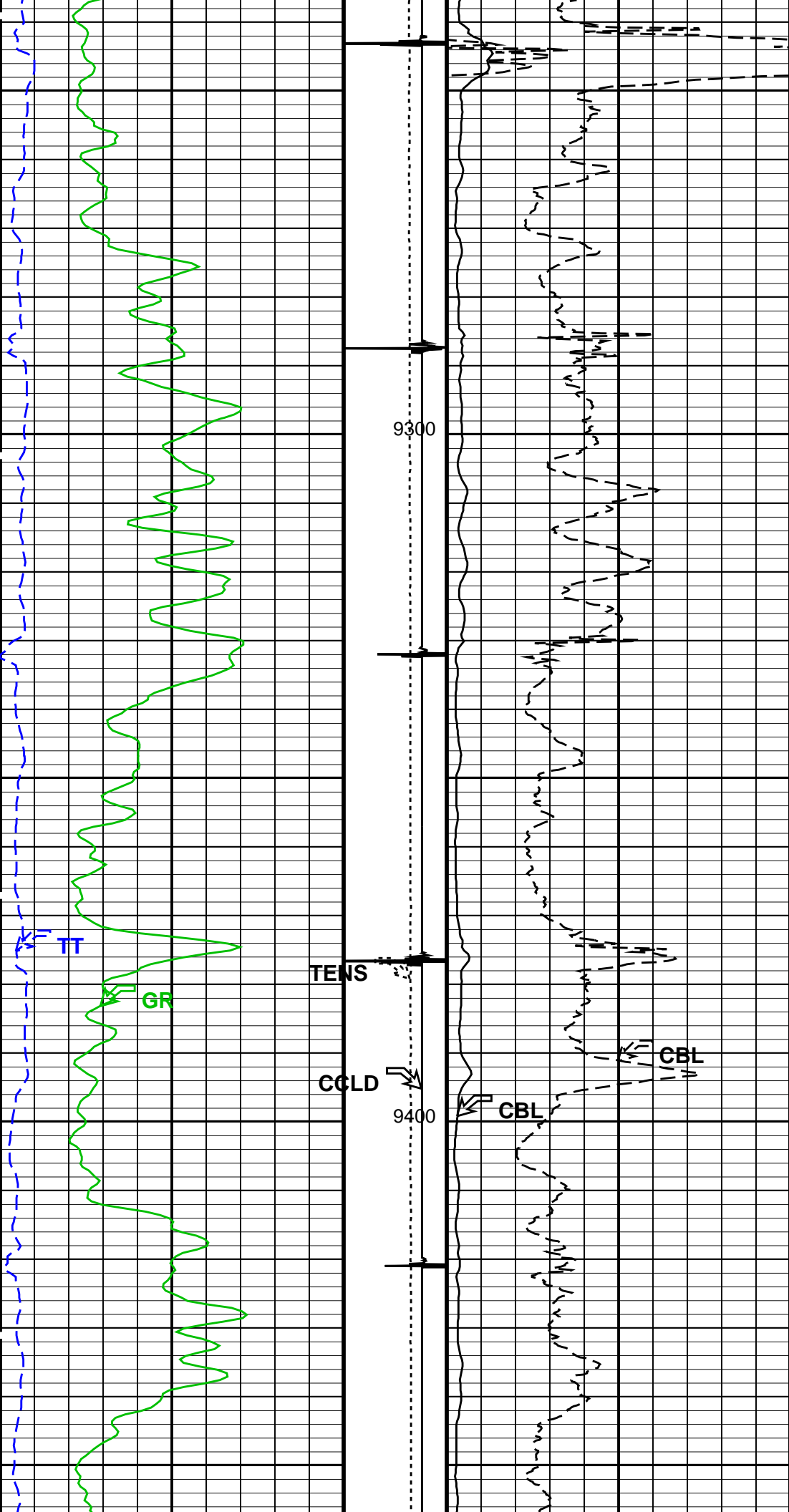


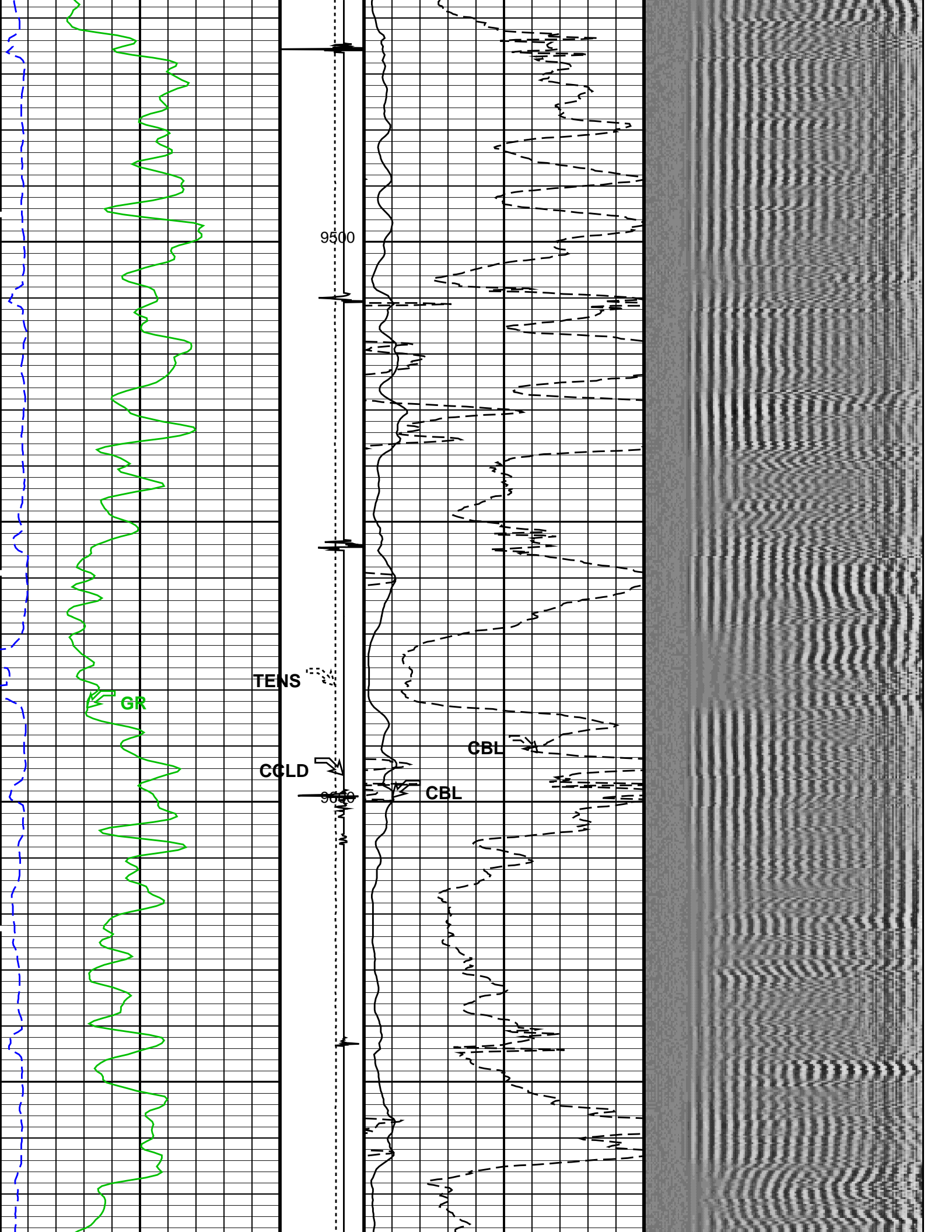


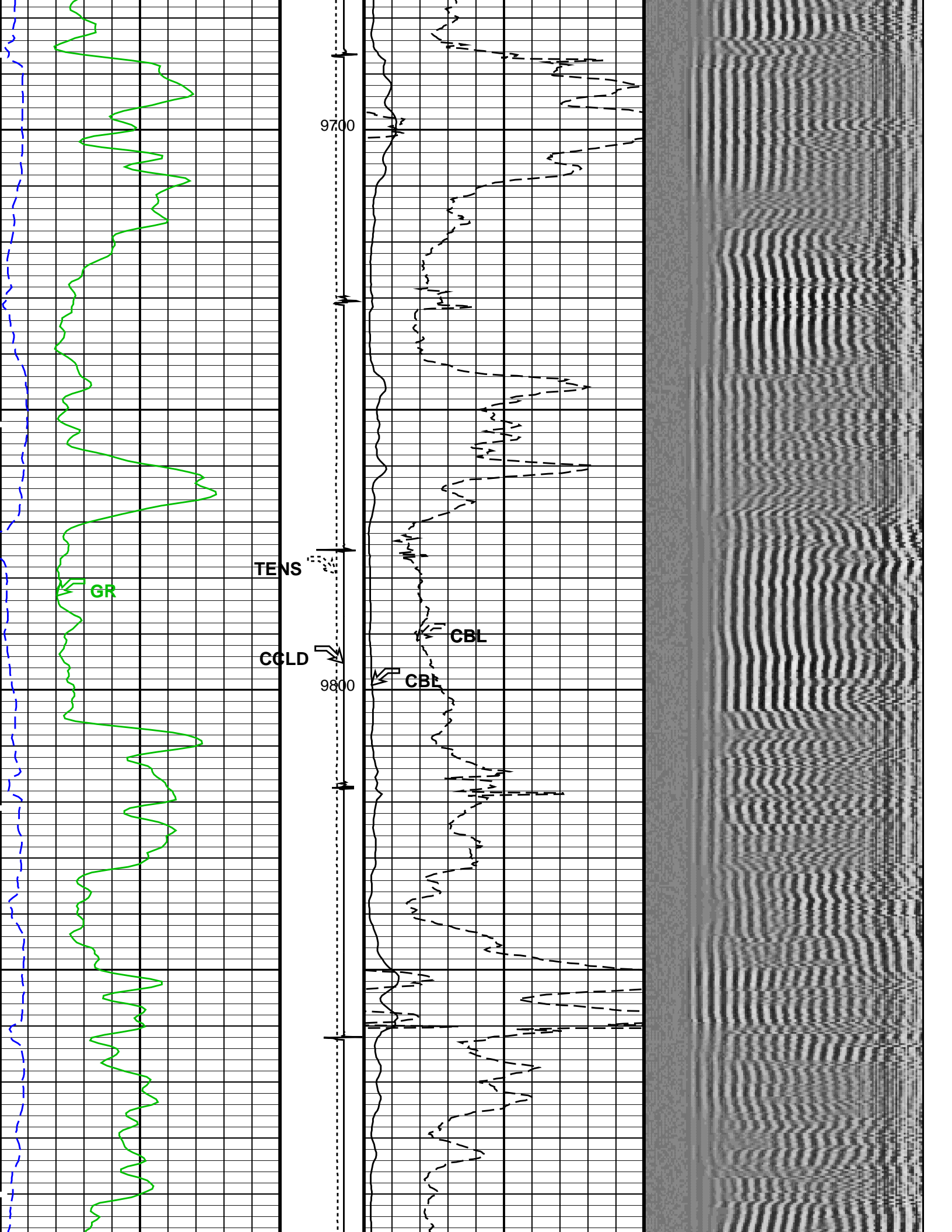


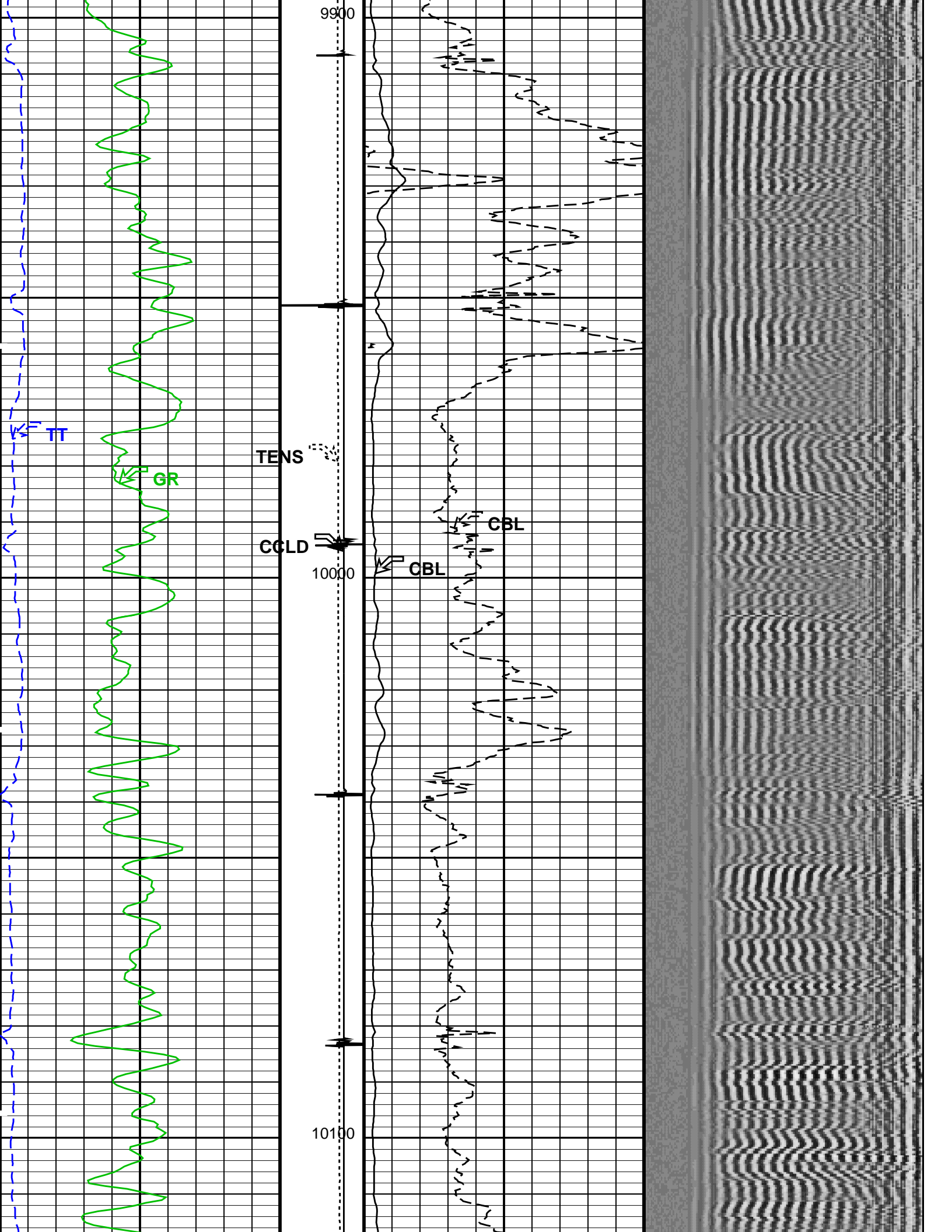


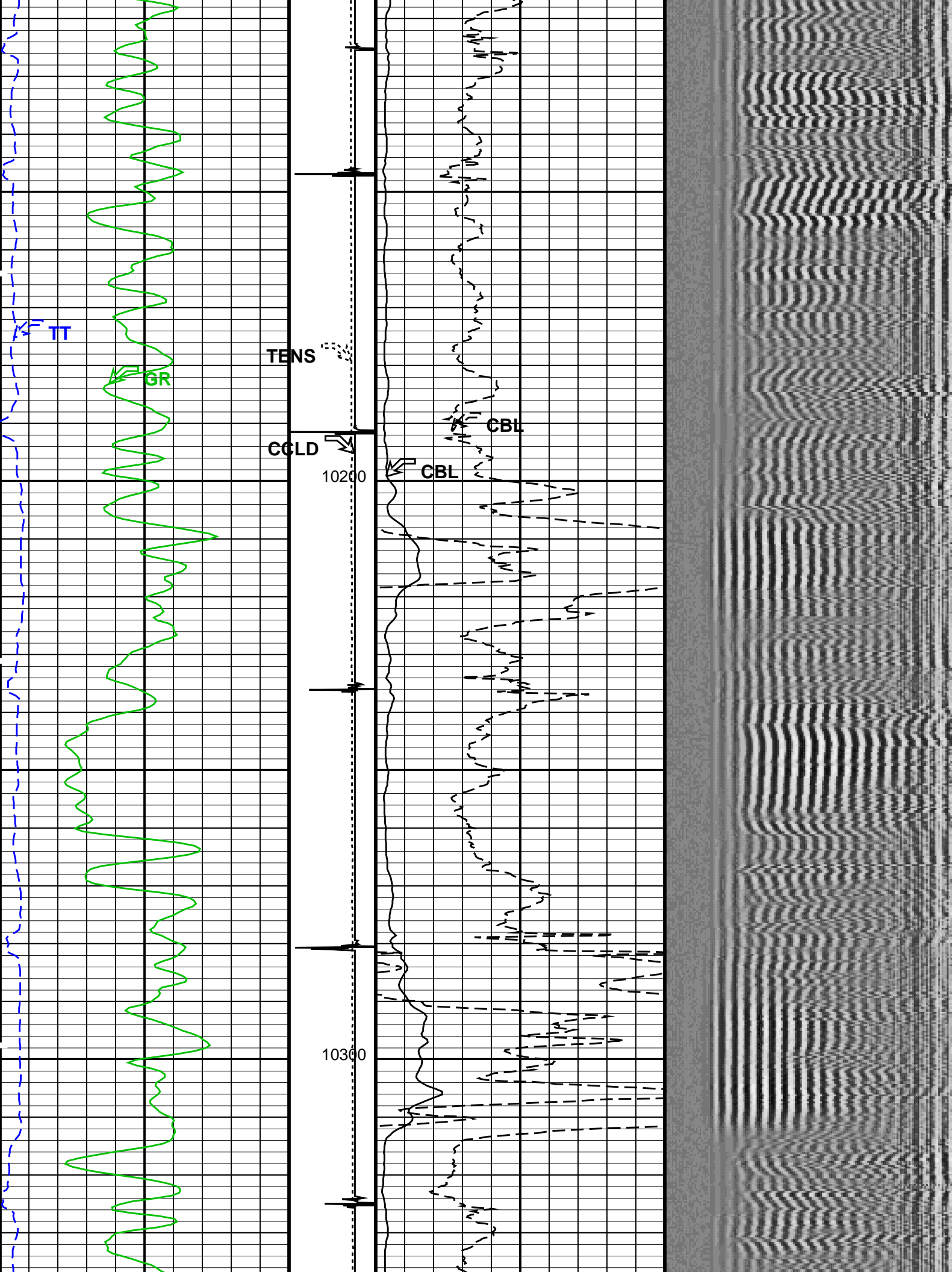


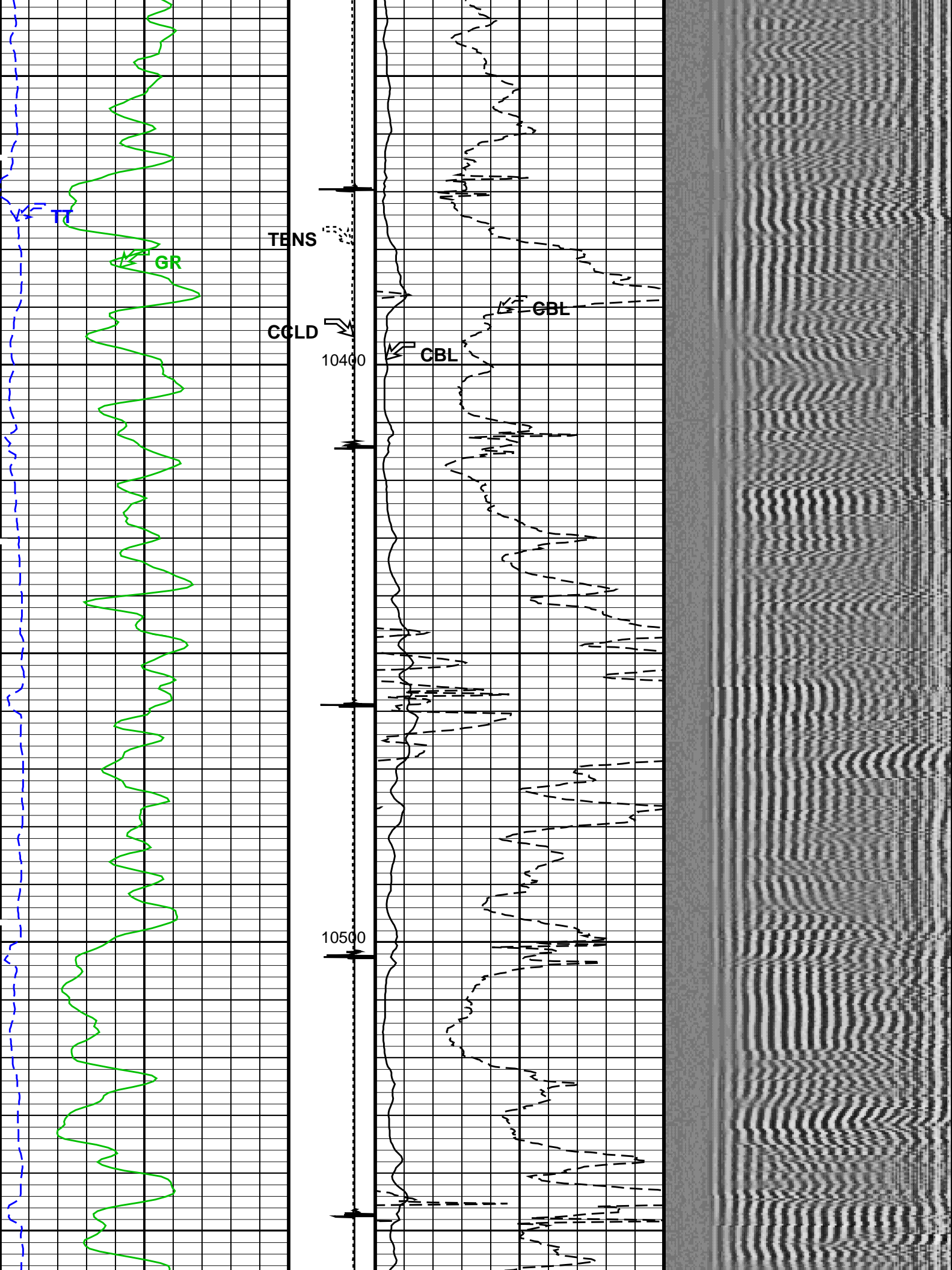


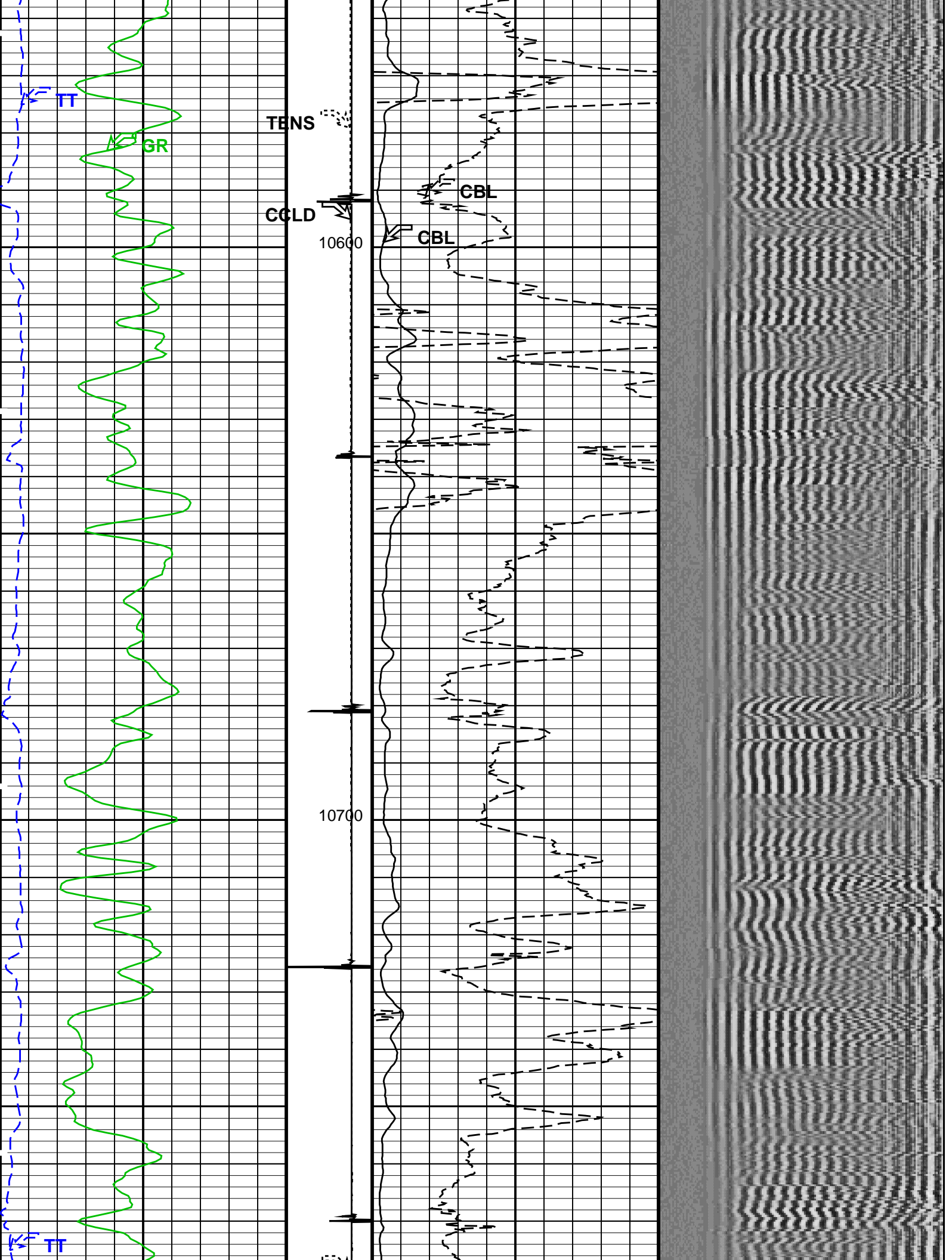


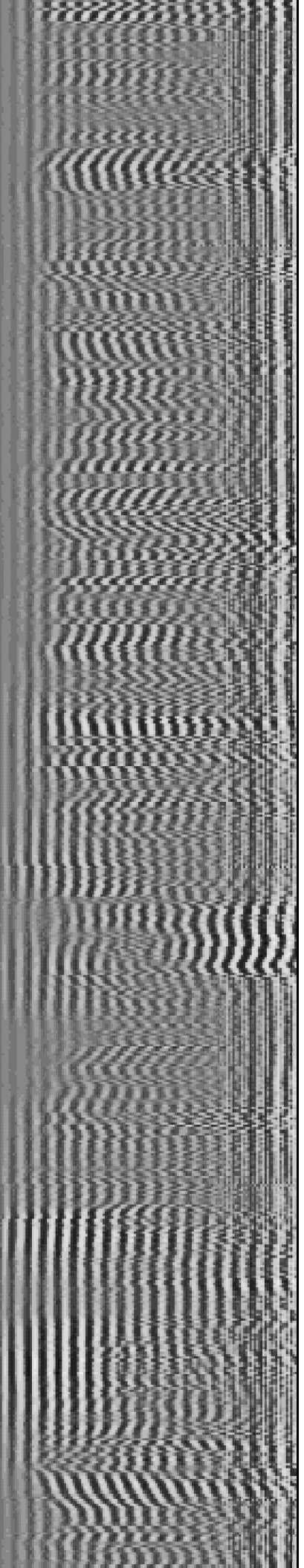
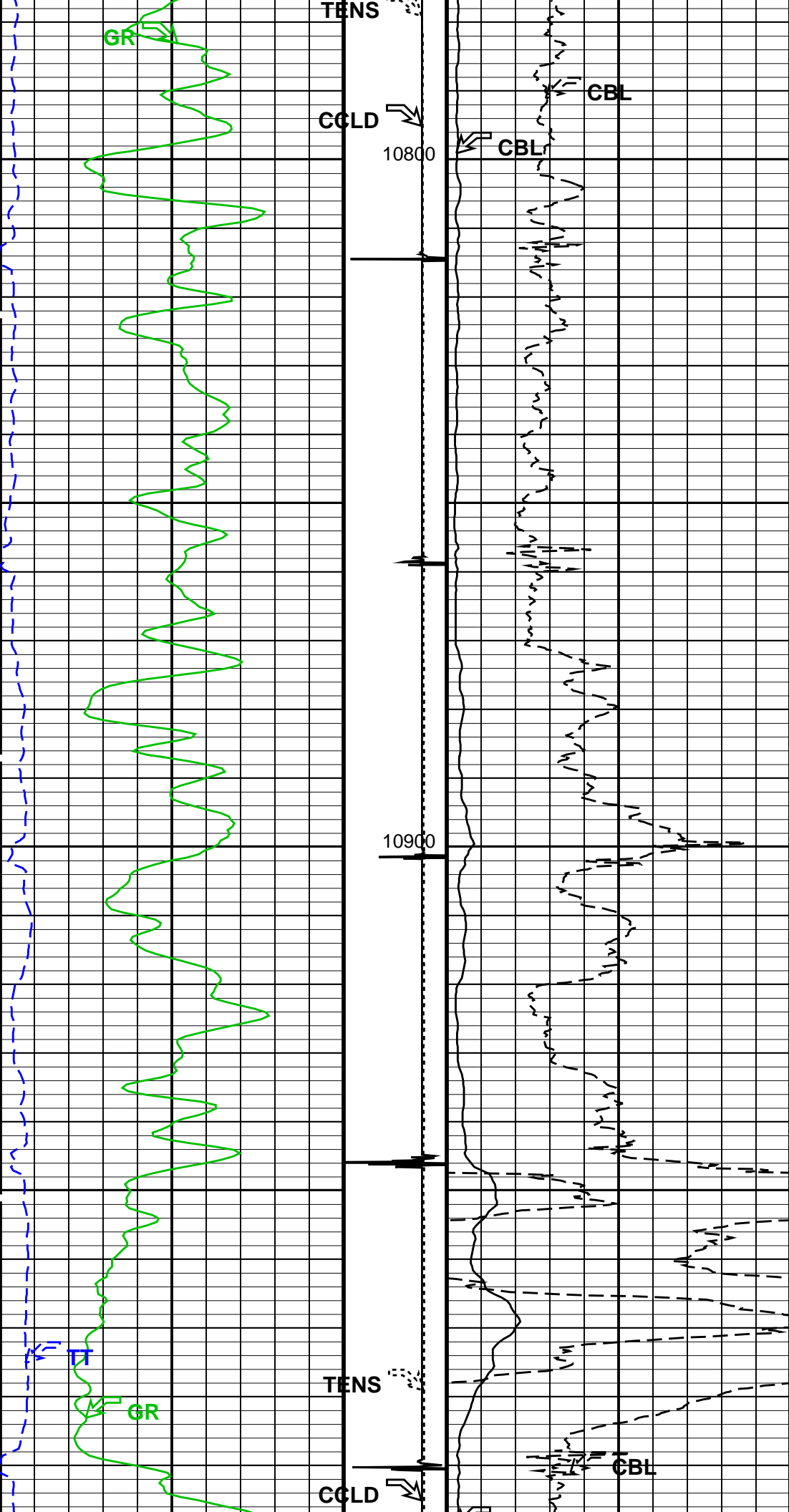


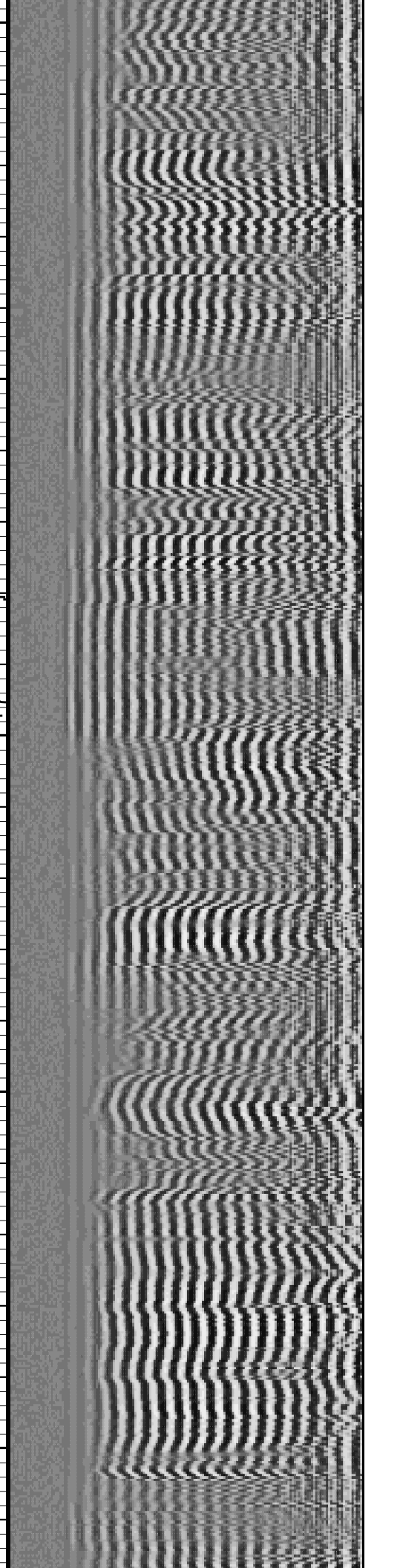
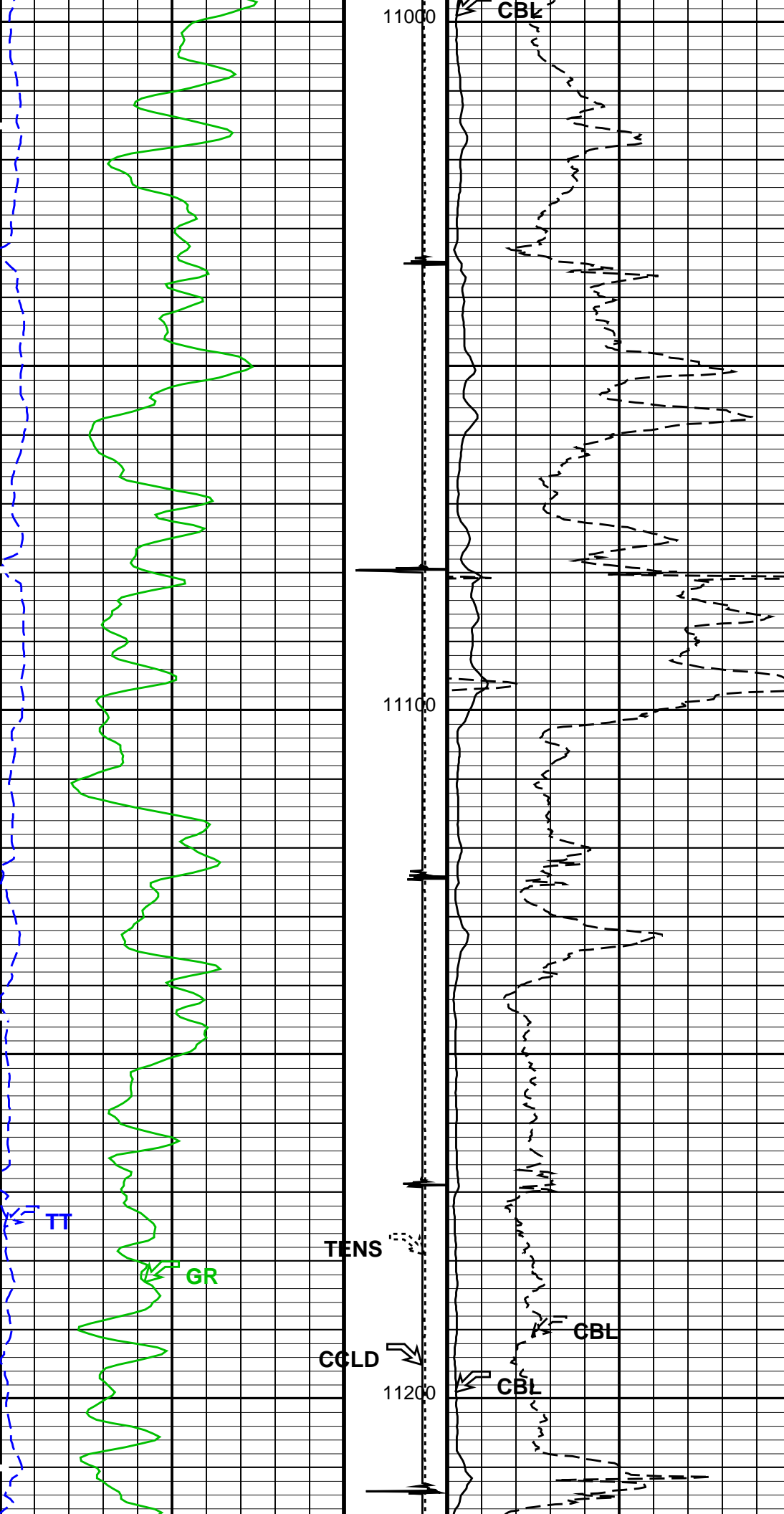


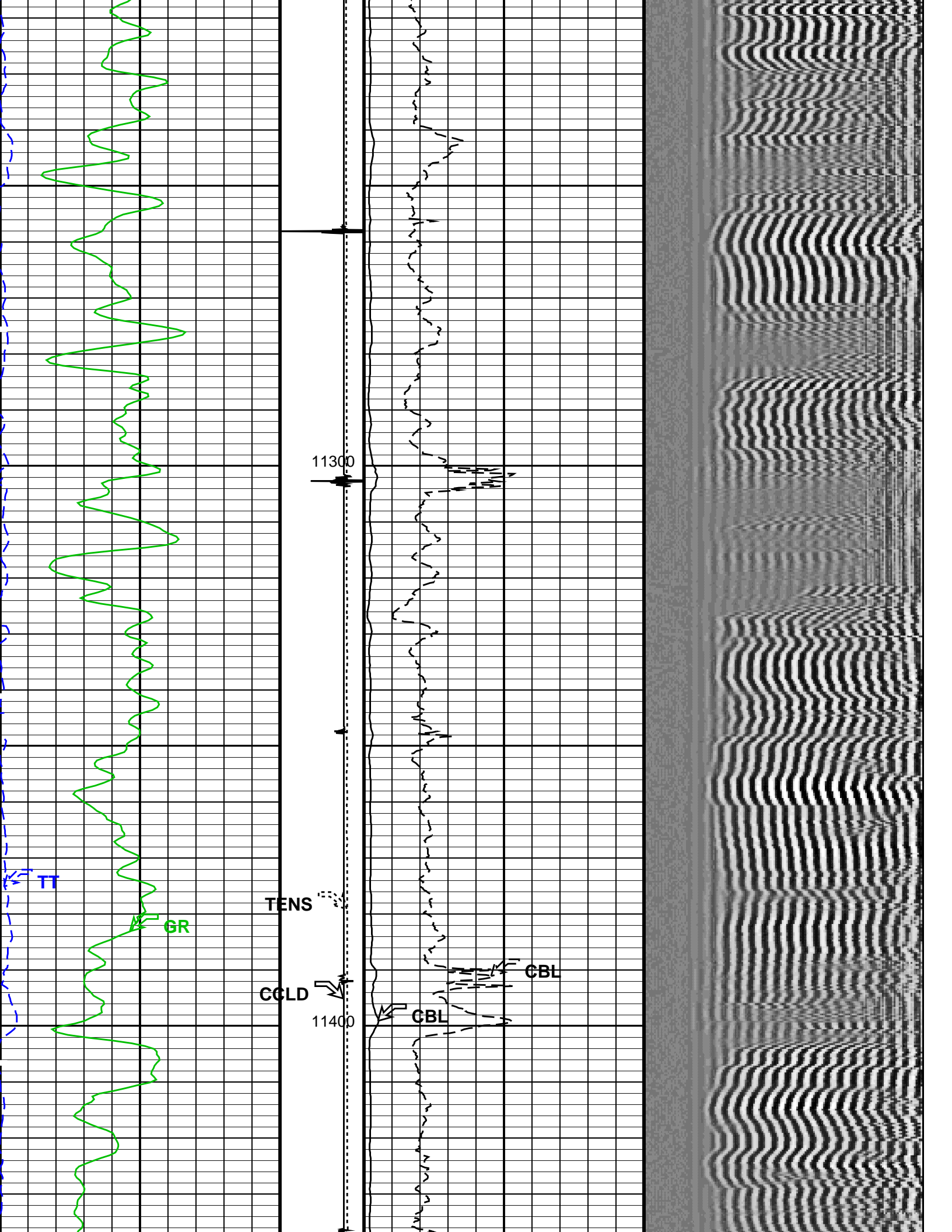


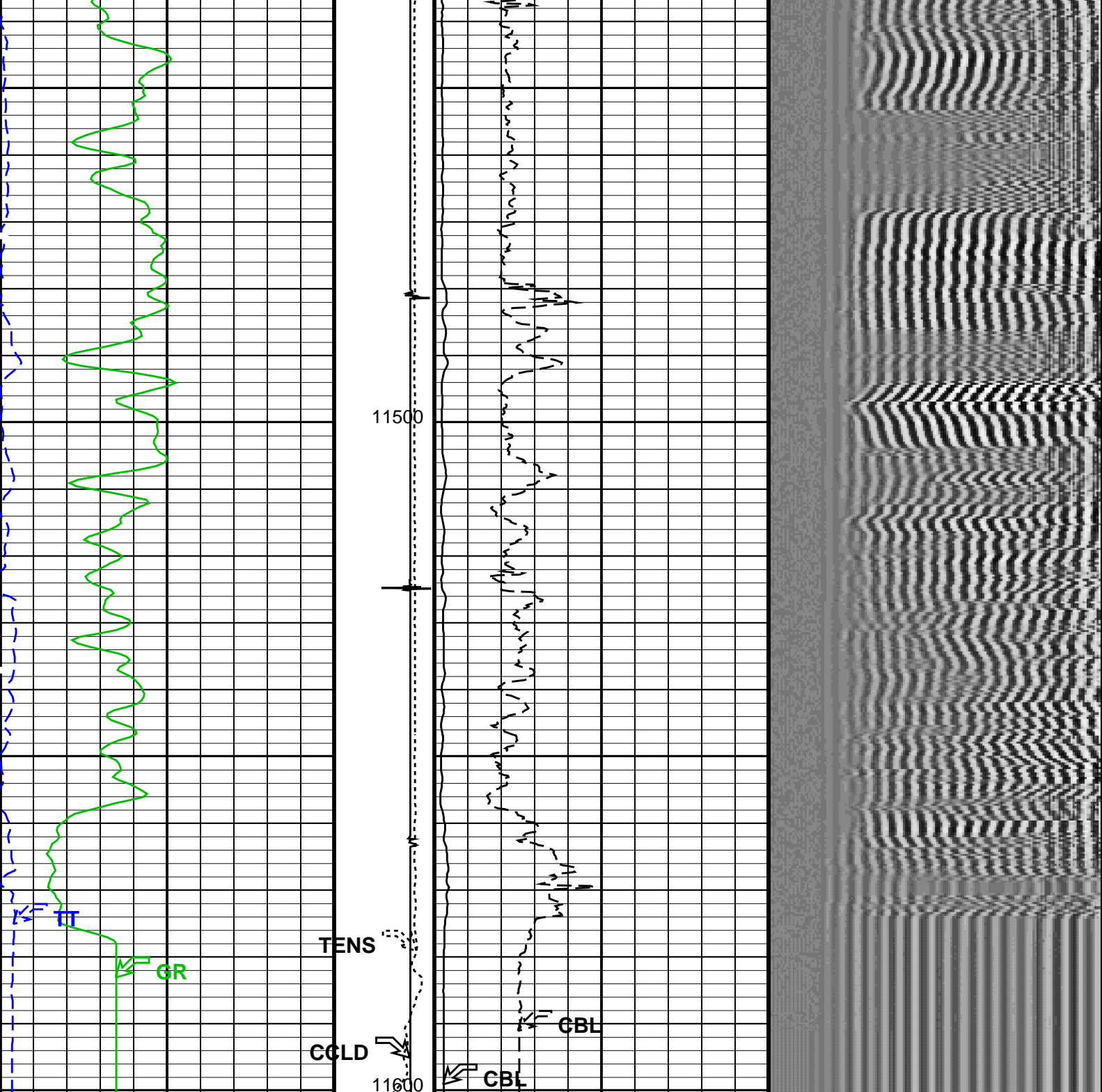












<p>Gamma Ray (GR) (GAPI)</p> <p>0 150</p>	<p>Tension (TENS) (LBF)</p> <p>0 2000</p>	<p>CBL Amplitude (CBL) (MV)</p> <p>0 100</p>	<p>Min Amplitude Max</p> <p>VDL VariableDensity (VDL) (US)</p> <p>200 1200</p>
<p>Transit Time (TT) (US)</p> <p>260 160</p>	<p>Discriminat ed CCL (CCLD) (V)</p> <p>3 -1</p>	<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: 18-Jan-2014 03:36

OP System Version: 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	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	5.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	11593	FT

Input DLIS Files					
DEFAULT	SCMT_PSP_026LUP	FN:24	PRODUCER	18-Jan-2014 00:21	11595.5 FT 11.0 FT

Output DI IS Files



REPEAT ANALYSIS CBL VDL

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8503D-34 (E34 496)

Input DLIS Files						
DEFAULT	SCMT_PSP_023LUP	FN:21	PRODUCER	17-Jan-2014 23:57	7515.5 FT	7272.0 FT
DEFAULT	SCMT_PSP_028PUP	FN:26	PRODUCER	18-Jan-2014 03:36	11600.5 FT	-5.5 FT
Output DLIS Files						
DEFAULT	SCMT_PSP_029PUP	FN:27	PRODUCER	18-Jan-2014 03:46	7517.5 FT	7252.5 FT

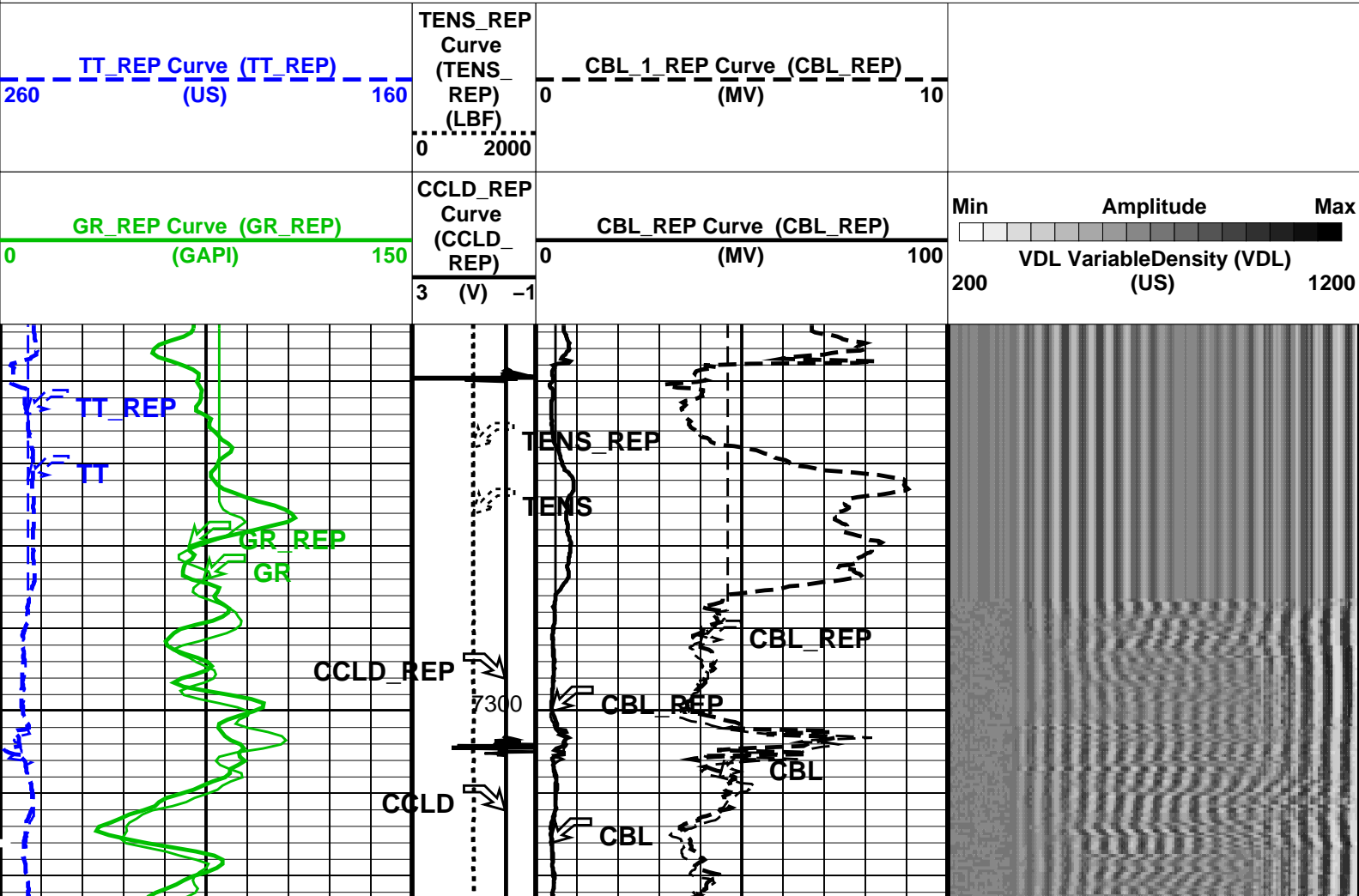
OP System Version: 19C2-270

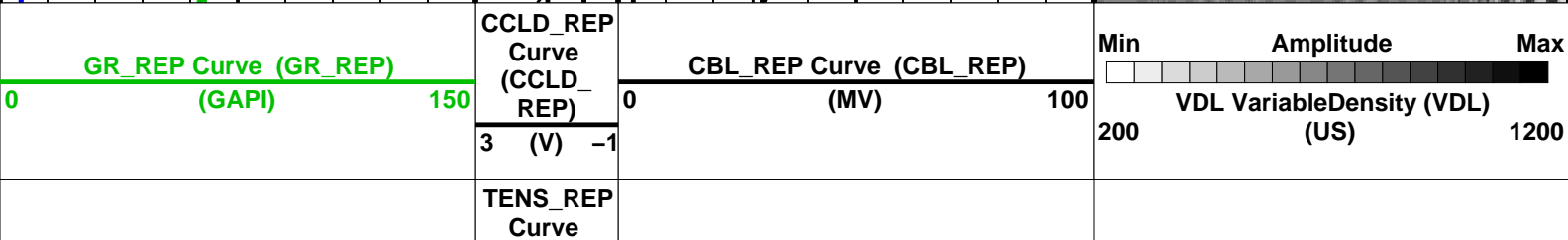
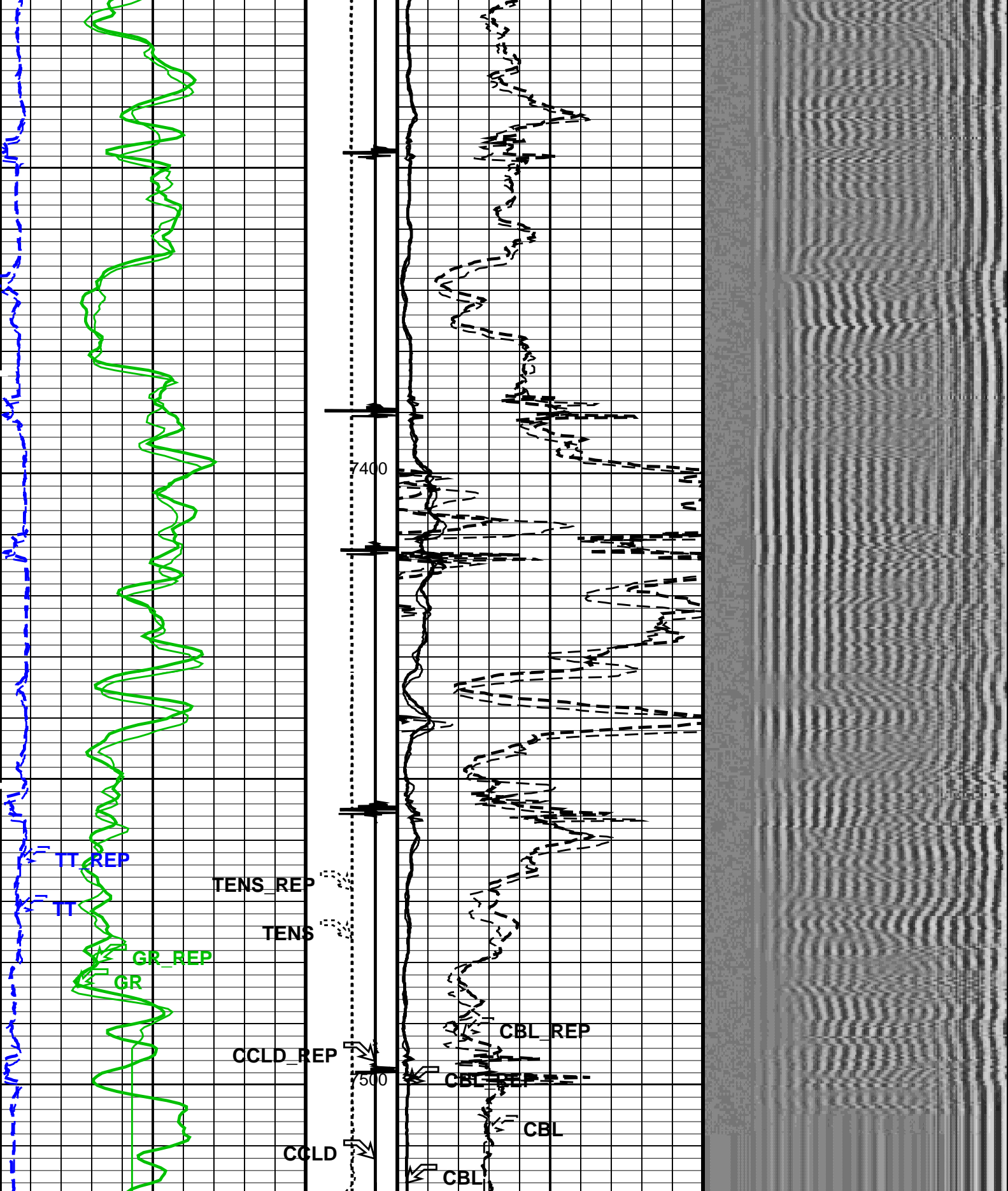
SCMT-CBunofficial

PSPTunofficial

PIP SUMMARY

Time Mark Every 60 S





TT_REP Curve (TT_REP)	(TENS_	CBL_1_REP Curve (CBL_REP)
260	(US)	160
	(REP)	0
	(LBF)	10
	0	2000

PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL_REP Vertical Scale: 5" per 100' Graphics File Created: 18-Jan-2014 03:46

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	80 MV	Minimum Sonic Amplitude	0.579149 MV (100% Cement)
in Free Pipe Section			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	
VDLC	VDL Manual Gain	5	

VDEG	VDE Manual Gain	9	
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	2.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	11593	FT

Input DLIS Files

DEFAULT	SCMT_PSP_023LUP	FN:21	PRODUCER	17-Jan-2014 23:57	7515.5 FT	7272.0 FT
DEFAULT	SCMT_PSP_028PUP	FN:26	PRODUCER	18-Jan-2014 03:36	11600.5 FT	-5.5 FT

Output DLIS Files

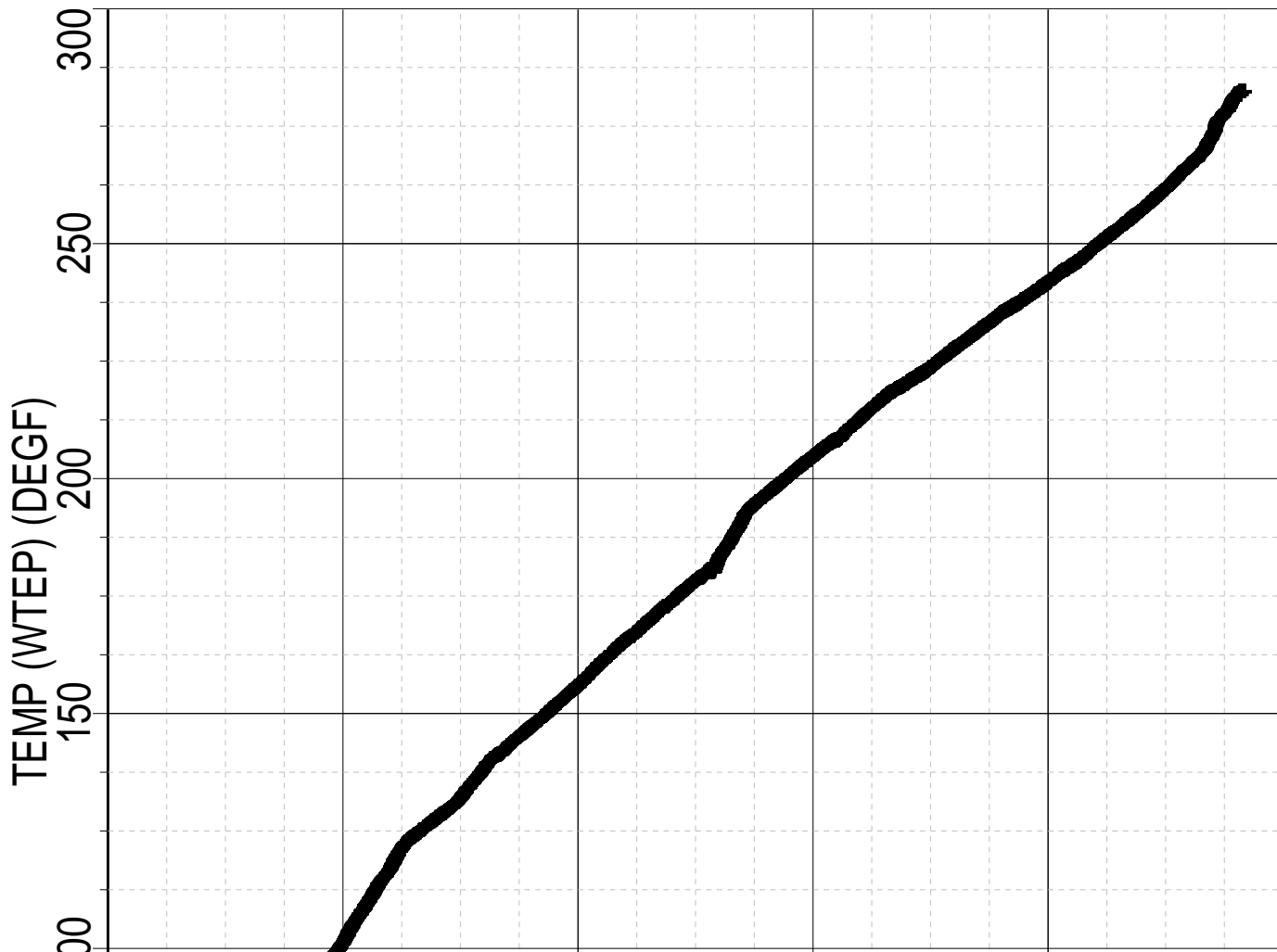
DEFAULT	SCMT_PSP_029PUP	FN:27	PRODUCER	18-Jan-2014 03:46		
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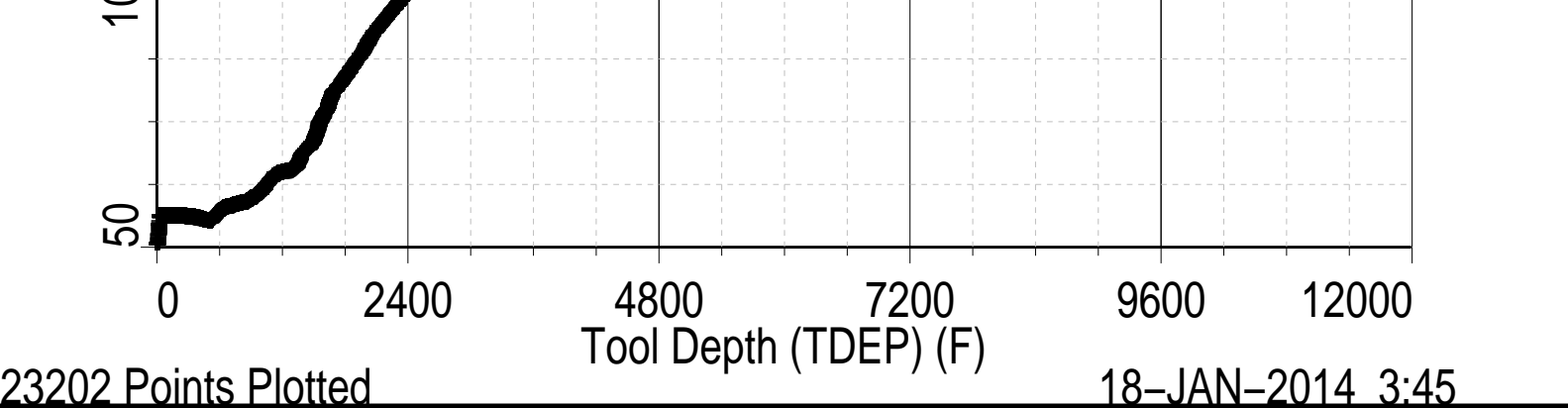
Schlumberger

TEMPERATURE PLOT

MAXIS Field Log

Index: 11600.5 – -5.5 FT





MASTER CALIBRATION

MAXIS Field Log

Slim Cement Mapping Tool, 1-11/16 OD / Equipment Identification			
Primary Equipment:			
Slim Cement Mapping Xmitter Electronics		SCMX – CA	
Slim Cement Mapping Sonde		SCMS – CB	8150
Slim Cement Mapping Cartridge		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)
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							



PBMS COEFFICIENTS

MAXIS Field Log

Client: ENCANA OIL & GAS (USA) INC
Field: STORY GULCH
Well: SG 8503E-34 (E34 496)
Run date: 17-Jan-2014

Tool: PSP
Sub Type: PBMS
Sensor: GR

PBMS Gamma Ray

Sonde Serial NB RESISTORS FOR GR SENSOR N.33155, TOOL PBMS-BA0861. SENSOR S/N:
Sensor Serial NB 33155
Calib Date ddmmyy 220499
Matrix Size 12
Coeff CRC 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 8503E-34 (E34 496)
Run date: 17-Jan-2014

Tool: PSP
Sub Type: PBMS
Sensor: WellTemp RTD

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	–.143179842319E+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	Tool:	PSP
Field:	STORY GULCH	Sub Type:	PBMS
Well:	SG 8503E–34 (E34 496)	Sensor:	CQG
Run date:	17–Jan–2014		

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

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**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	+1.14909007864E+03	-.261563620571E-03	+7.27201308276E-08
Fb**1	-.599411471804E-02	+1.192684257496E-07	+1.149578546349E-12
Fb**2	-.320292169705E-07	+3.73670664357E-12	+8.71958109779E-18
Fb**3	-.307852303739E-12	+9.27295382637E-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	+1.182108938515E-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	+3.10508075363E+05	+2.94368299940E-02	+7.69893562204E-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	+1.17831722096E+03	-.563036688315E-02	-.289752074861E-07
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	+4.24868386643E-12	-.842142459987E-16	+3.76543844967E-20

Company: ENCANA OIL & GAS (USA) INC

Schlumberger

Well: SG 8503D-34 (E34 496)
Field: STORY GULCH
County: GARFIELD
State: COLORADO

SLIM CEMENT MAPPING LOG
CCL - GAMMA RAY - TEMPERATUR