

Company: ENCANA OIL & GAS (USA) INC

Well: SHIDELER FEE 31-13C (031E)

Field: MAMM CREEK

County: GARFIELD

State: COLORADO

County: GARFIELD

Field: MAMM CREEK

Location: SHL: 208 FSL & 2021 FEL

Well: SHIDELER FEE 31-13C (031E)

Company: ENCANA OIL & GAS (USA) INC

SLIM CEMENT MAPPING LOG

CBL-VDL

GR-CCL

SHL: 208 FSL & 2021 FEL

BHL: 538 FSL & 38 FWL

Elev.: K.B. 7129.00 ft

G.L. 7107.00 ft

D.F. 7128.00 ft

Permanent Datum: GROUND LEVEL

Log Measured From: KELLY BUSHING

Drilling Measured From: KELLY BUSHING

API Serial No. 05-045-21736-0C

Section 31

Township 7S

Range 92W

PVT DATA				Run 1	Run 2	Run 3
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 Date10-Feb-2013

Run Number1

Depth Driller9118 ft

Schlumberger Depth9024 ft

Bottom Log Interval9015 ft

Top Log Interval60 ft

Casing Fluid TypeFRESH WATER

Salinity

Density8.4 lbm/gal

Fluid Level60 ft

BIT/CASING/TUBING STRING

Bit Size7.875 in

From7250 ft

To9118 ft

Casing/Tubing Size4.500 in

Weight11.6 lbm/ft

GradeS-80

From22 ft

To9098 ft

Maximum Recorded Temperatures244 degF

Logger On Bottom10-Feb-2013

Unit Number391

Recorded ByKIRSTIE BUNTING

Witnessed BySHANE

Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Fluid Type				
Salinity				
Density				
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size				
From				
To				
Casing/Tubing Size				
Weight				
Grade				
From				
To				
Maximum Recorded Temperatures				
Logger On Bottom				
Unit Number				
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Date Created: 29-JAN-2013 10:07:01

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:	3421	Serial Number:	112136
Calibration Date:	24-APR-2012	Calibration Date:	29-JAN-2013	Length:	19500 FT
Calibrator Serial Number:		Calibrator Serial Number:	174878	Conveyance Method:	Wireline
Calibration Cable Type:	1-25ZT	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-3	Calibration RMS:	13		
Wheel Correction 2:	-4	Calibration Peak Error:	23		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	
Rig Up Length At Bottom:	
Rig Up Length Correction:	
Stretch Correction:	
Tool Zero Check At Surface:	

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES APPLIED
2. IDW USED AS PRIMARY DEPTH REFERENCE
3. SWPT DRUM COUNTER USED AS SECONDARY DEPTH REFERENCE
- 4.
- 5.
- 6.

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1	OTHER SERVICES2
OS1: RESERVOIR SATURATION	OS1:
OS2: LOG	OS2:
OS3: SIGMA MODE	OS3:
OS4: GR-CCL	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FIRST RUN IN HOLE CORRELATED TO DOWN LOG	
TOOL RAN AS PER TOOL SKETCH	
ENTRANCE TIME: 20:15	
TIME AT TD: 21:00	
EXIT TIME: 23:30	

MAXIMUM RECORDED TEMPERATURE: 244 DEGF
MAXIMUM RECORDED PRESSURE: 3667 PSIA
SHORT JOINTS: 6978 FT & 7883 FT
MAIN PASS LOGGED WITH ZERO SURFACE PRESSURE
EXPECTED CBL AMP IN FREE PIPE=80MV
THANK YOU FOR CHOOSING E&P WIRELINE, A SCHLUMBERGER COMPANY
CREW: K. BUNTING, L. DADDY, D. BANGS, B. BOTTOM, K. JONES

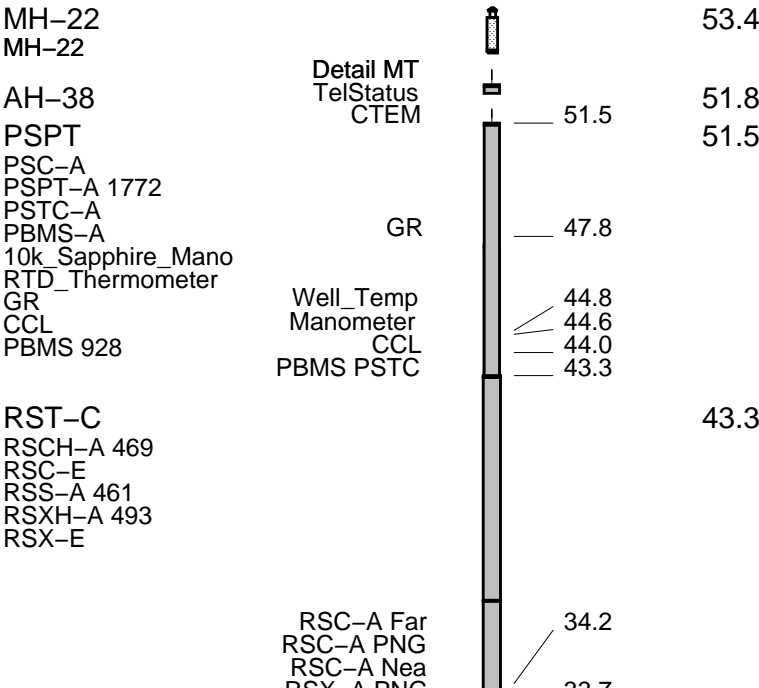
RUN 1			RUN 2		
SERVICE ORDER #:		C920-00035	SERVICE ORDER #:		
PROGRAM VERSION:		19C0-187	PROGRAM VERSION:		
FLUID LEVEL:		60 ft	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

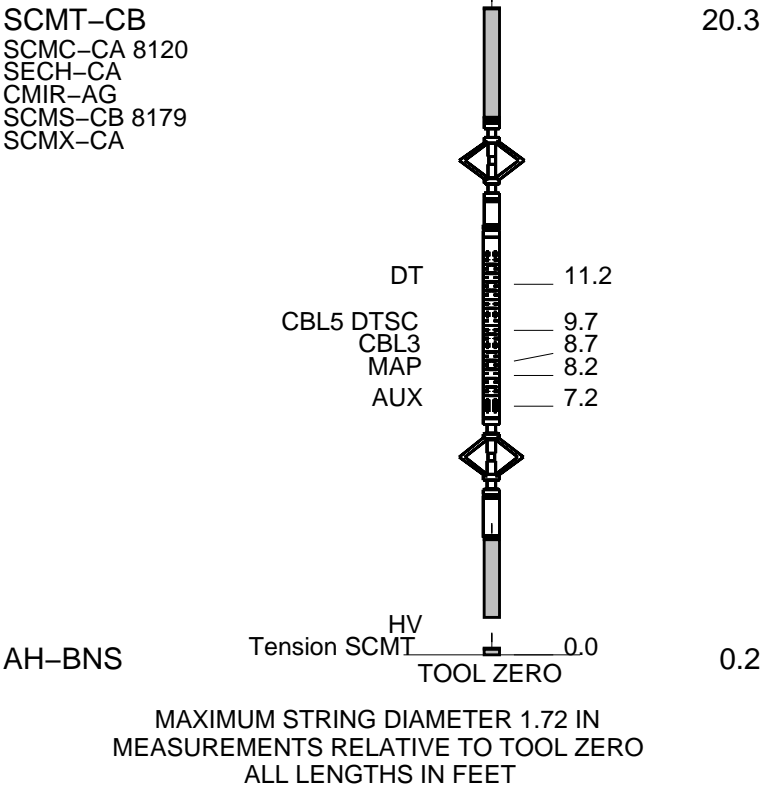
[illegible]

RUN 1 RUN 2

SURFACE EQUIPMENT	
WITM-A	
PSC_16MHZ	

DOWNHOLE EQUIPMENT





Schlumberger

MAIN PASS CBL VDL

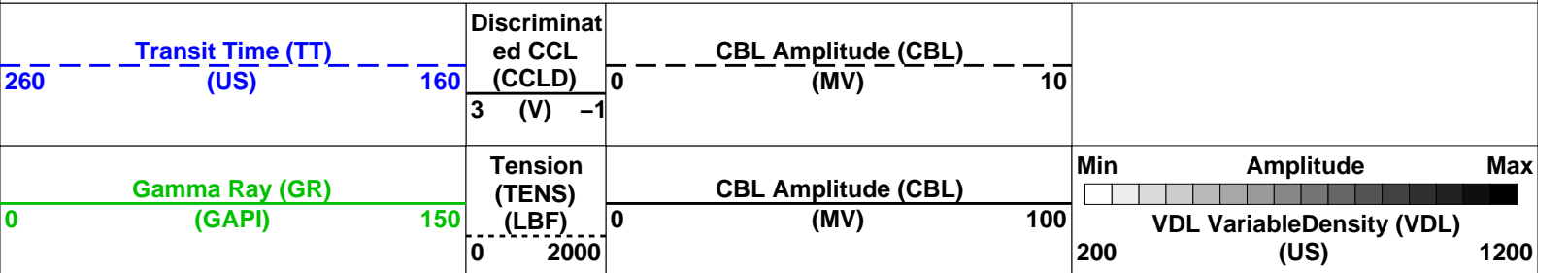
MAXIS Field Log

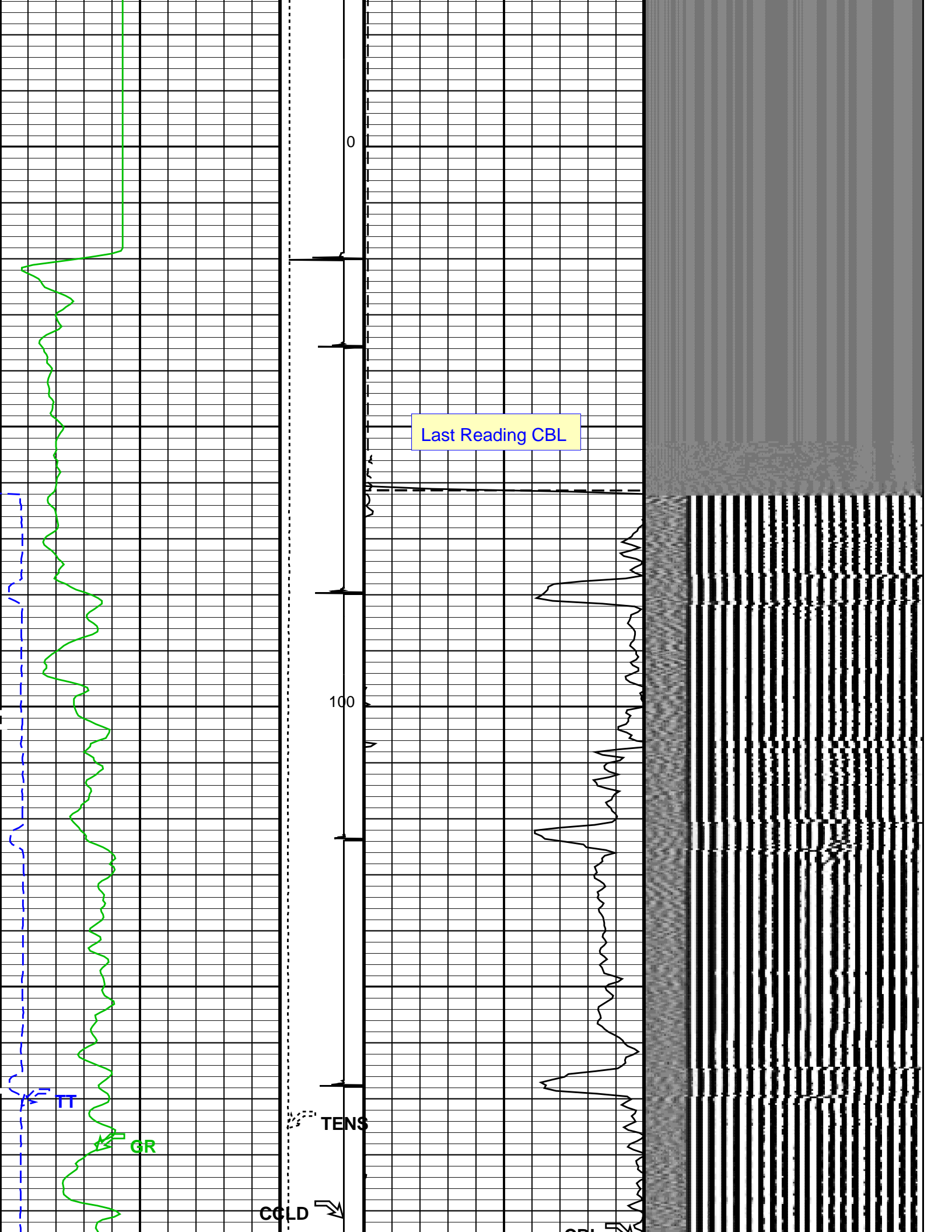
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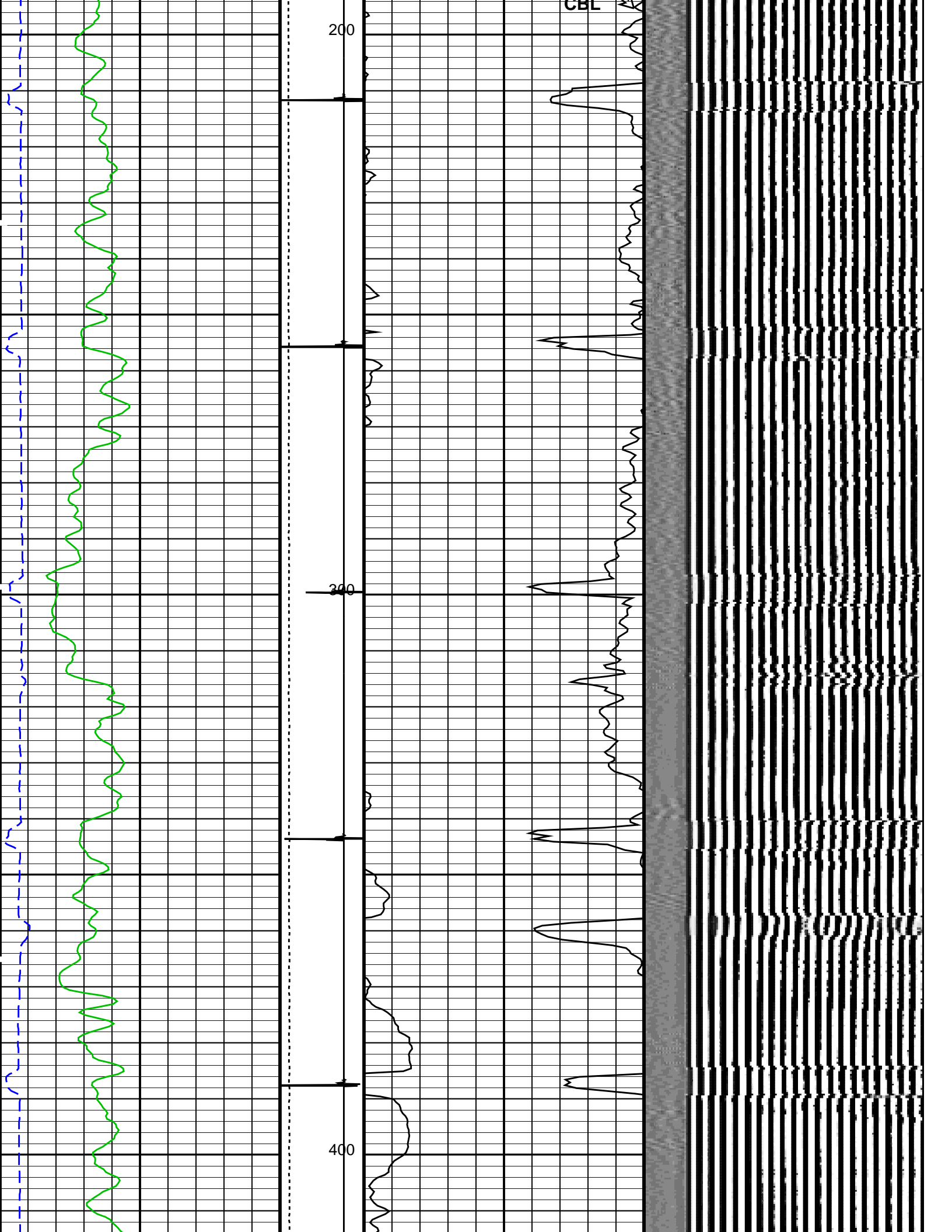
Input DLIS Files						
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Output DLIS Files						
DEFAULT	SCMT_RST_PSP_077PUP	FN:75	PRODUCER	10-Feb-2013 23:28	9039.0 FT	-27.0 FT
OP System Version: 19C0-187						
SCMT-CB	SRPC-5214-H2-2012-OP1		RST-C	SRPC-5214-H2-2012-OP1		
PSPT	SRPC-5214-H2-2012-OP1					

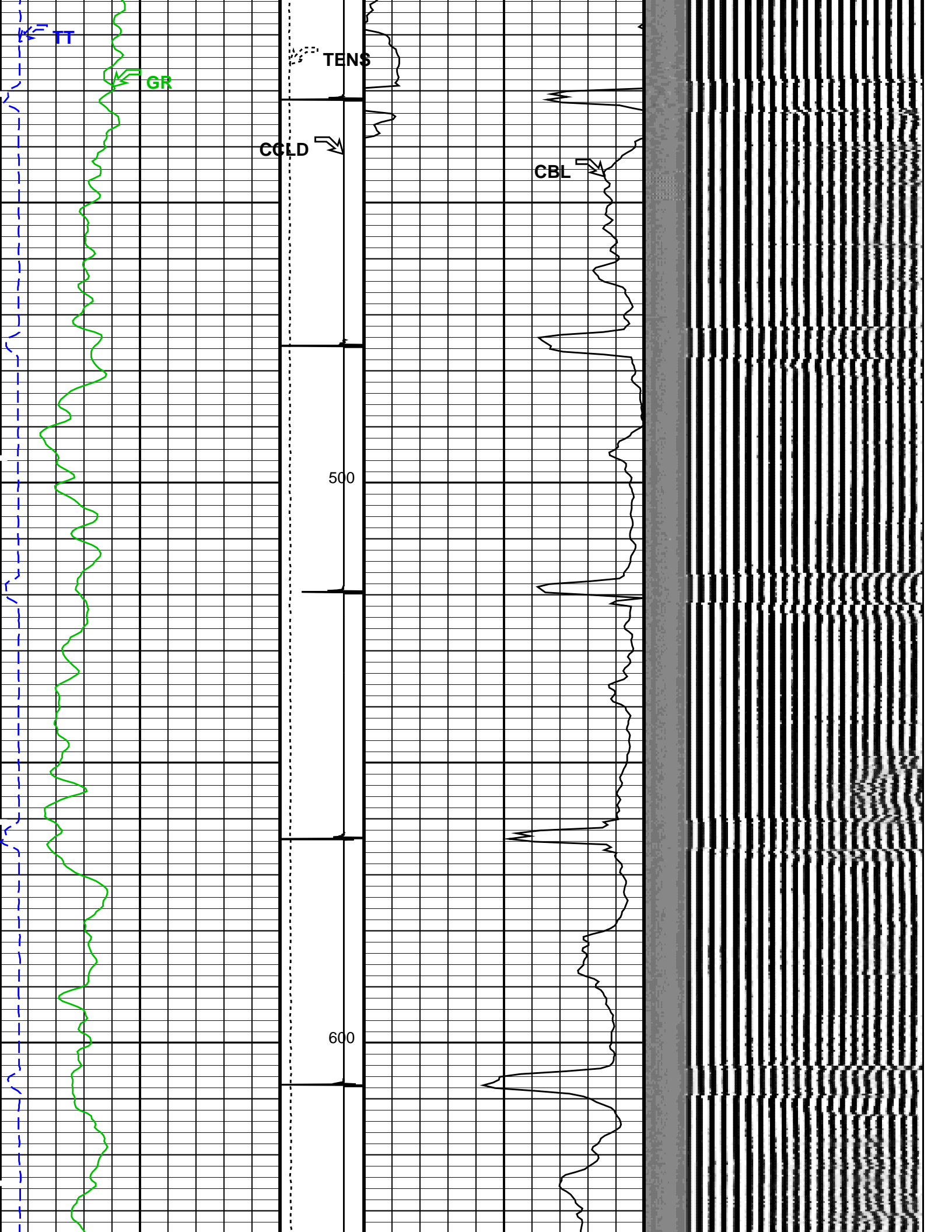
PIP SUMMARY

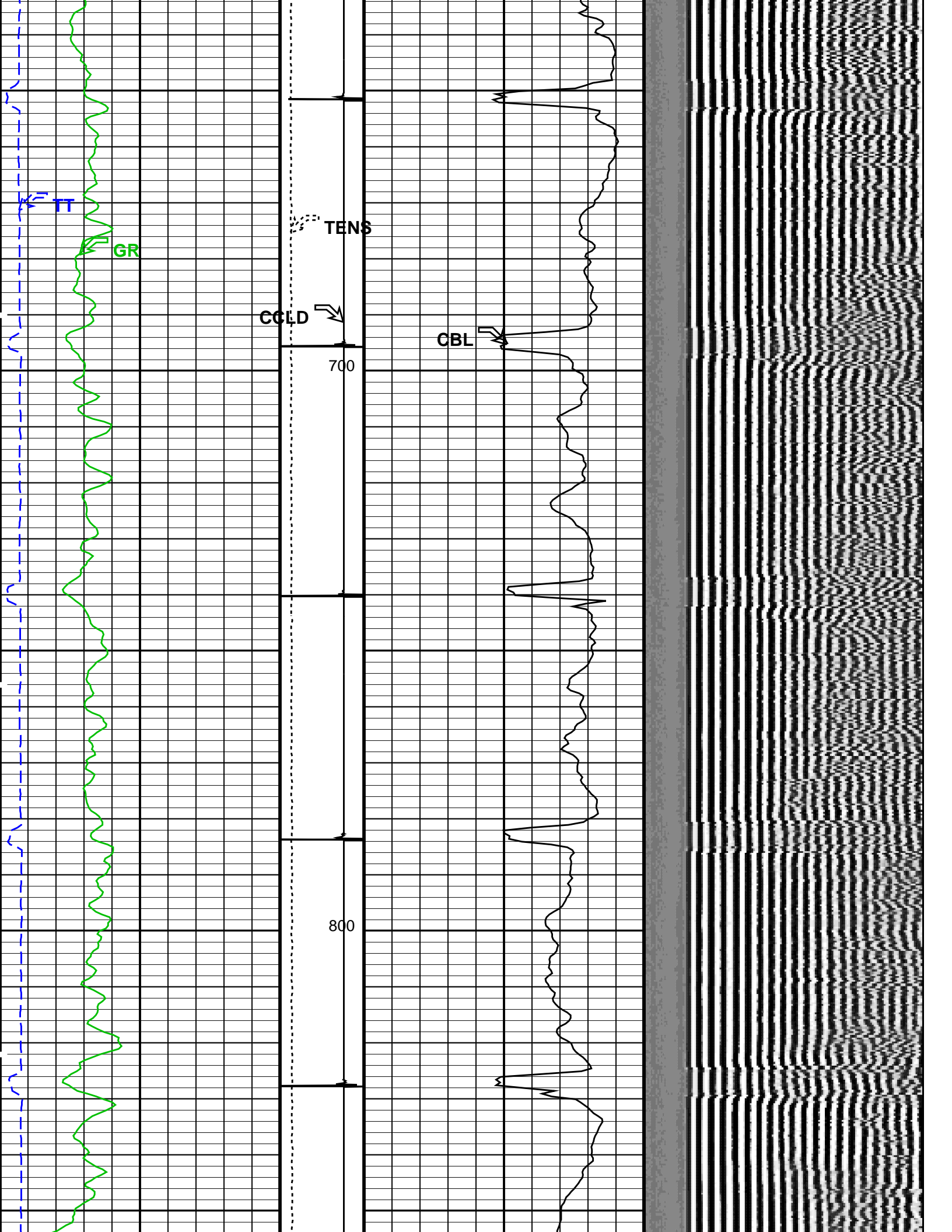
☒ Time Mark Every 60 S

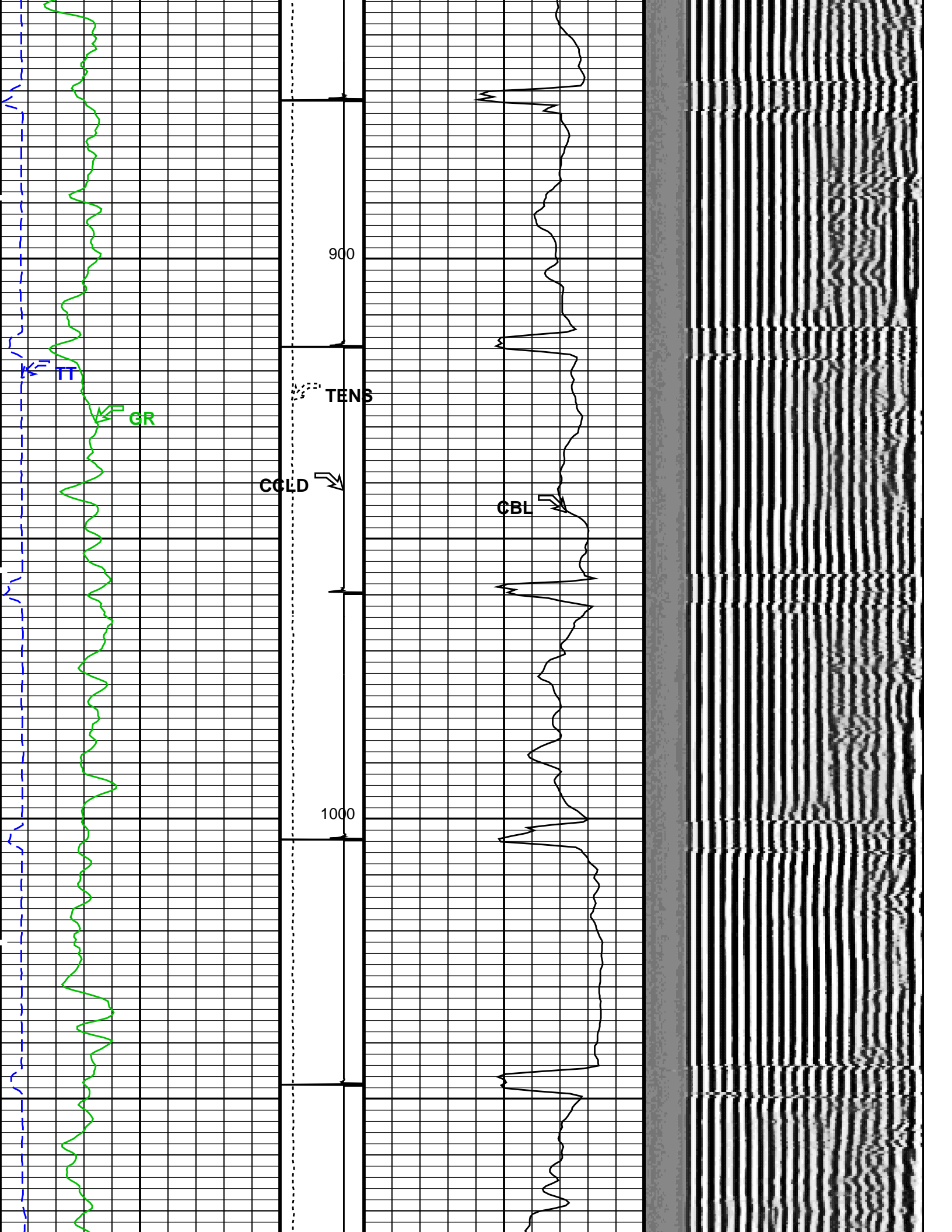


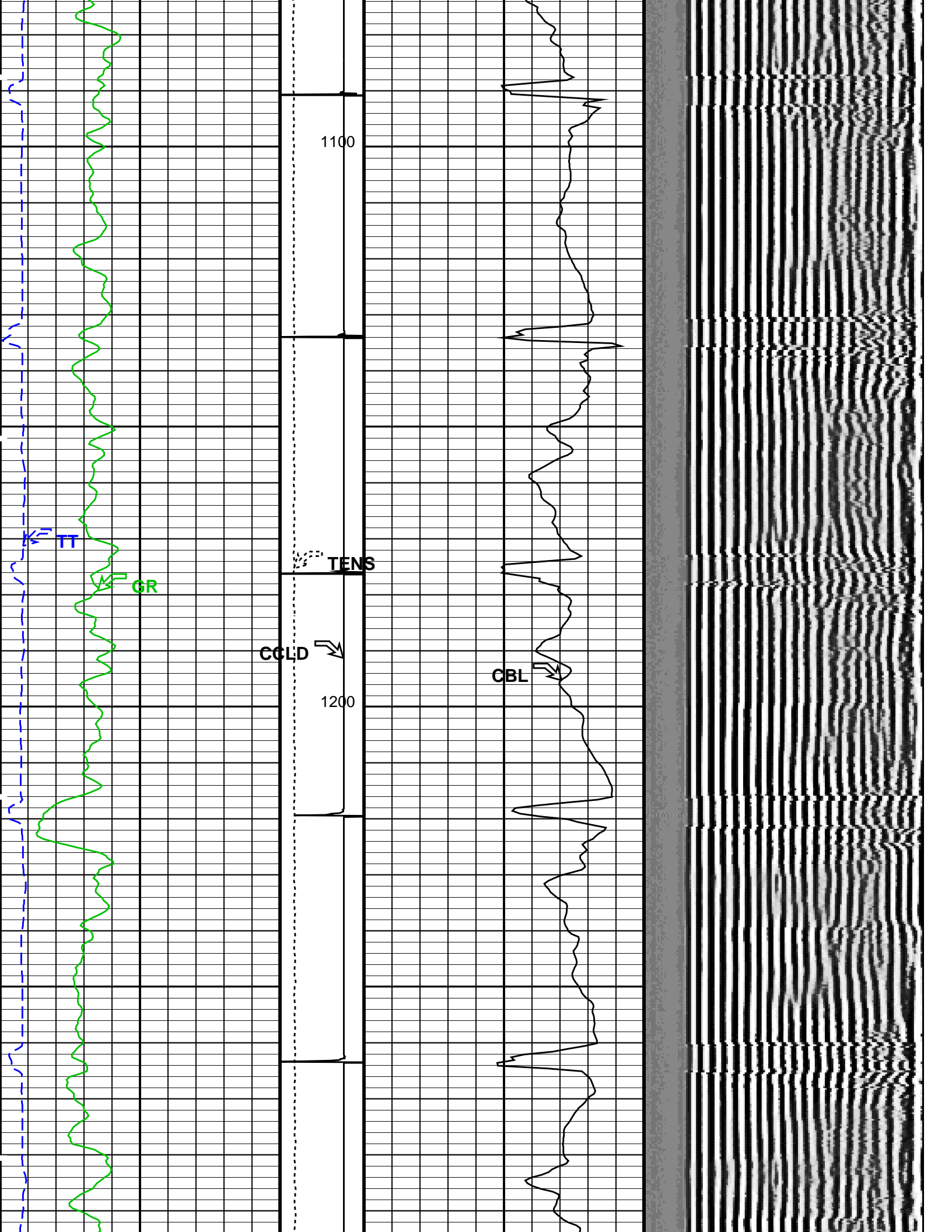


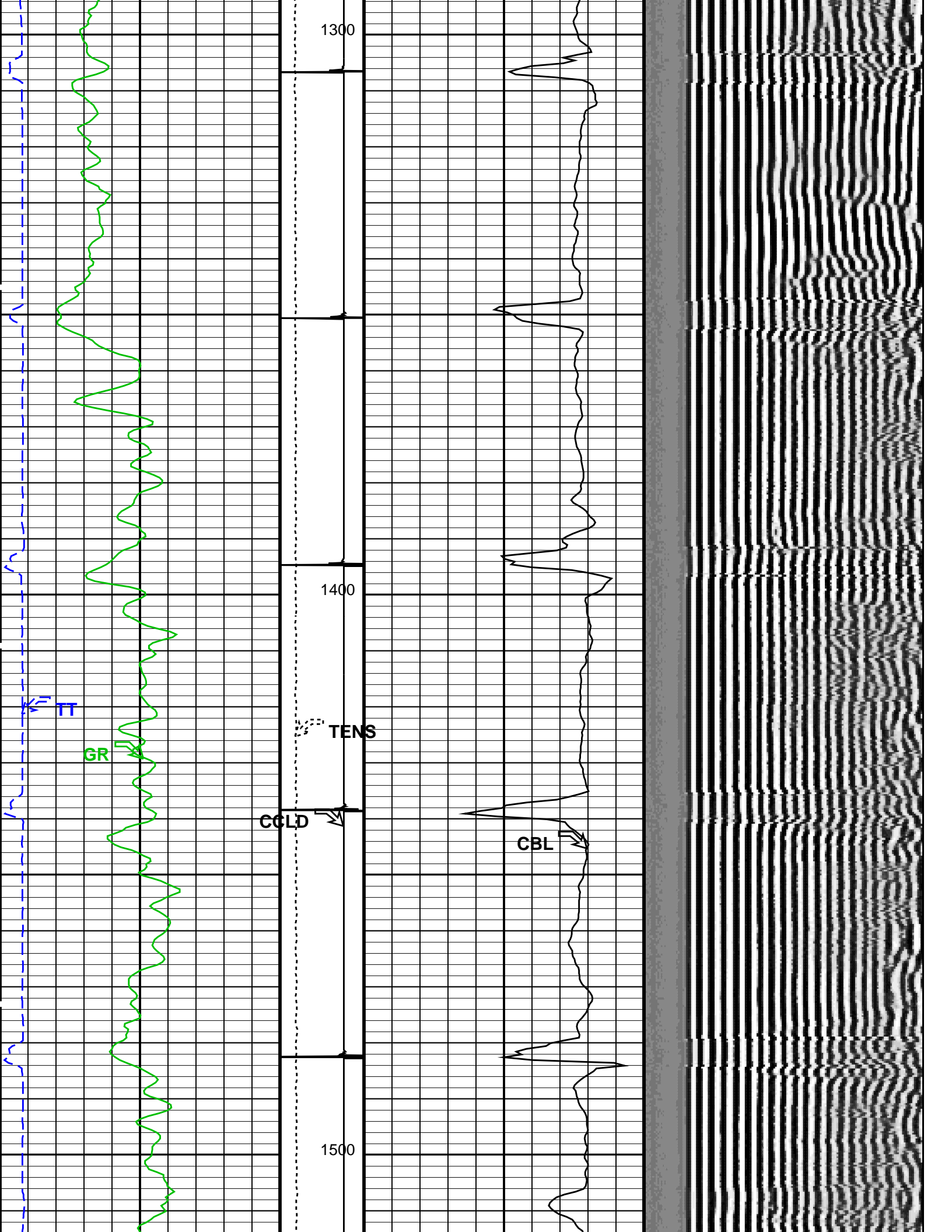


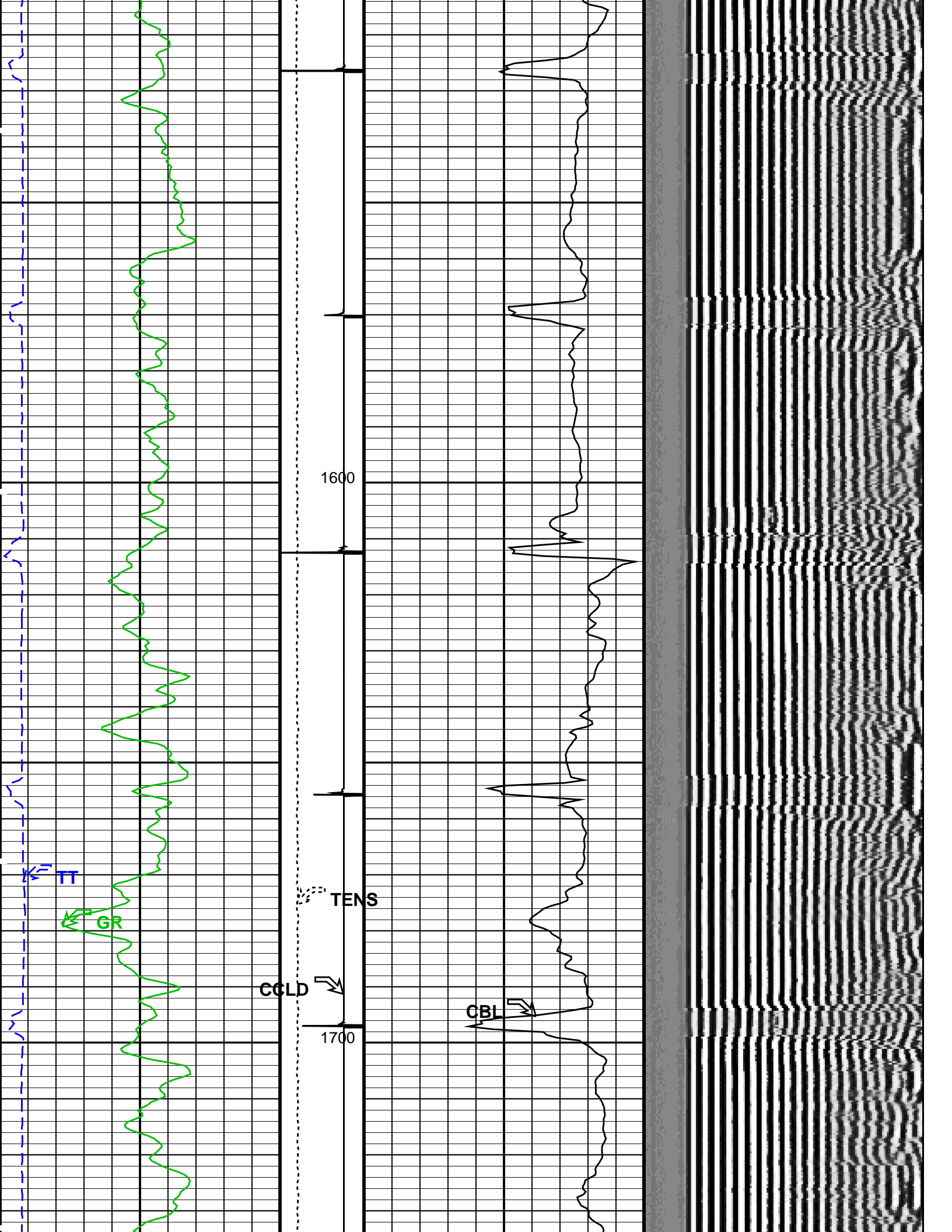


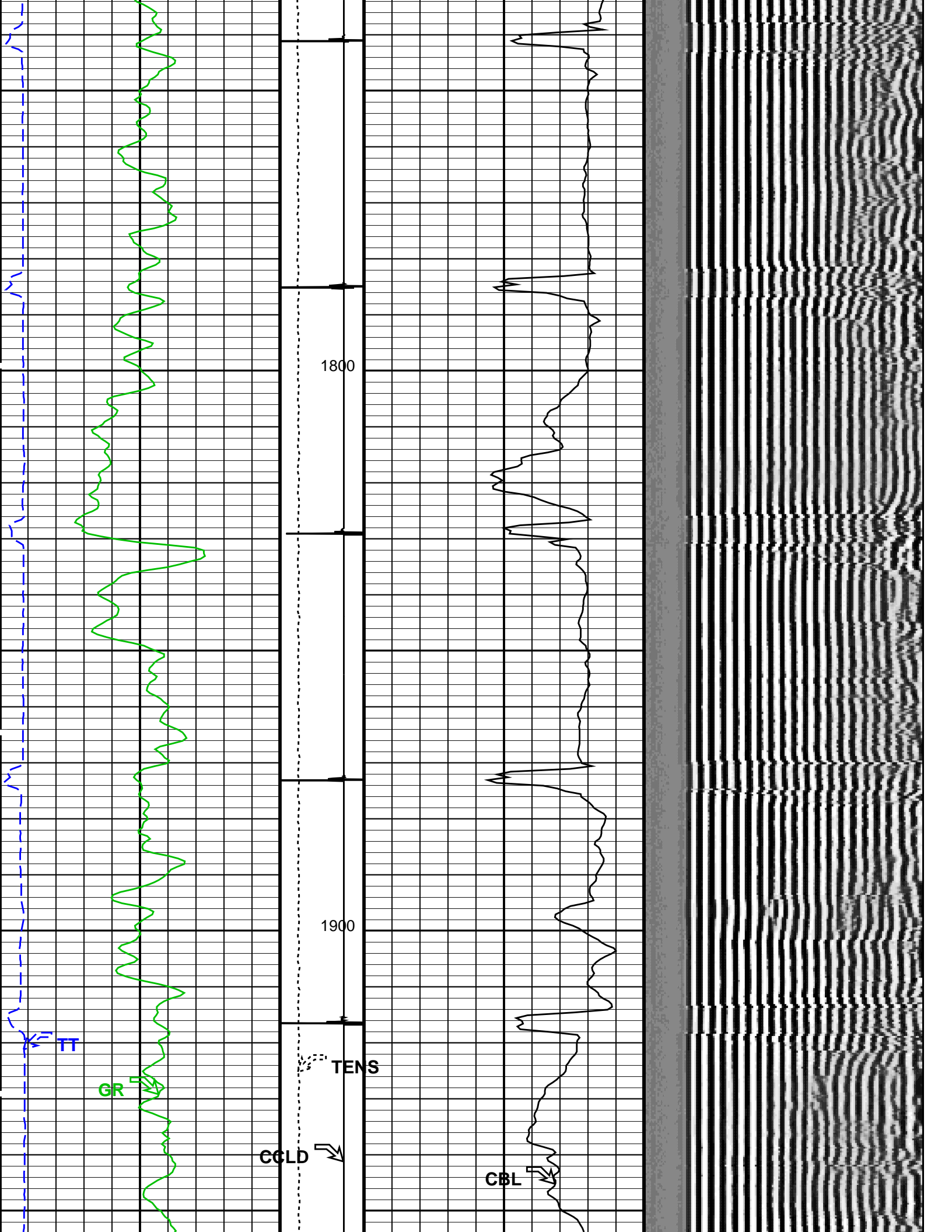


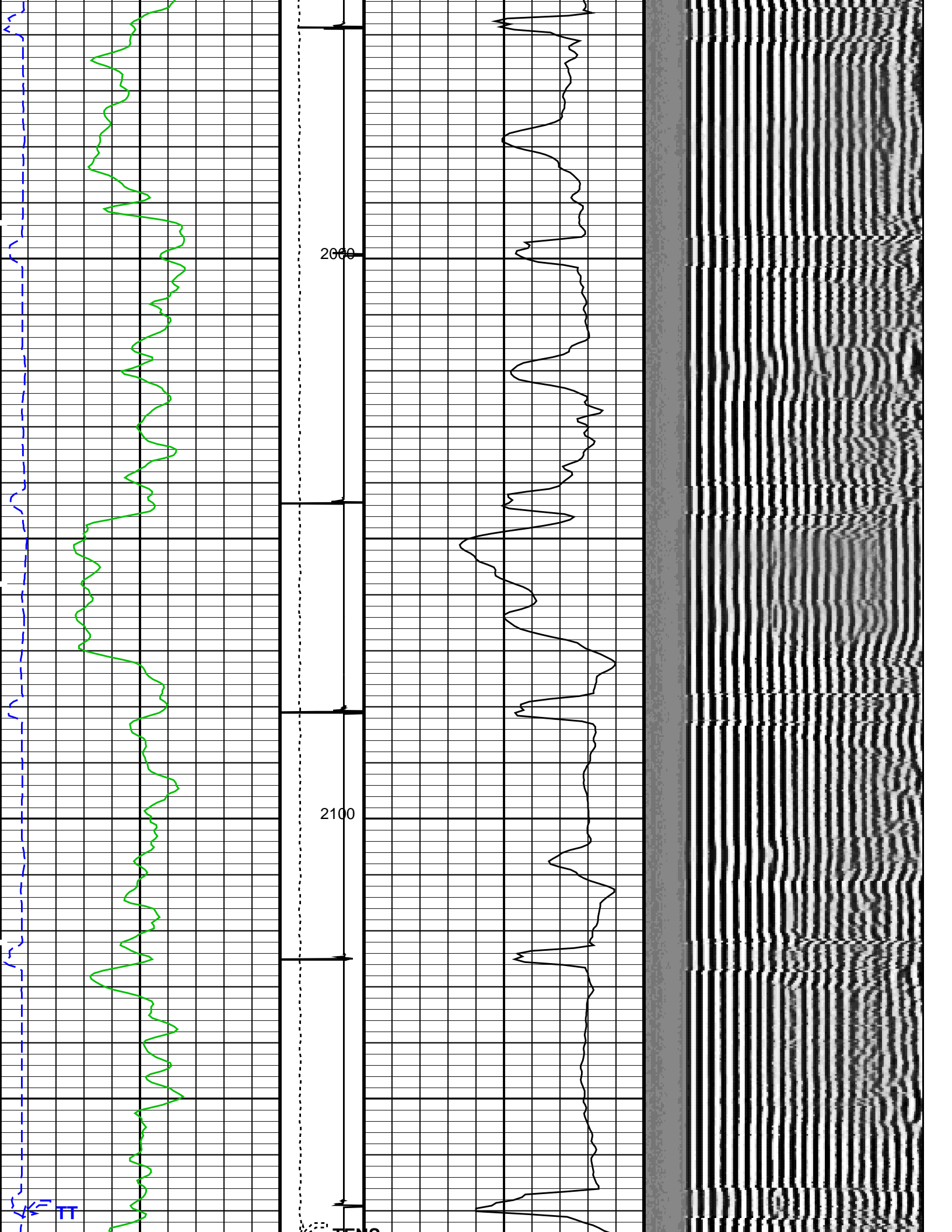


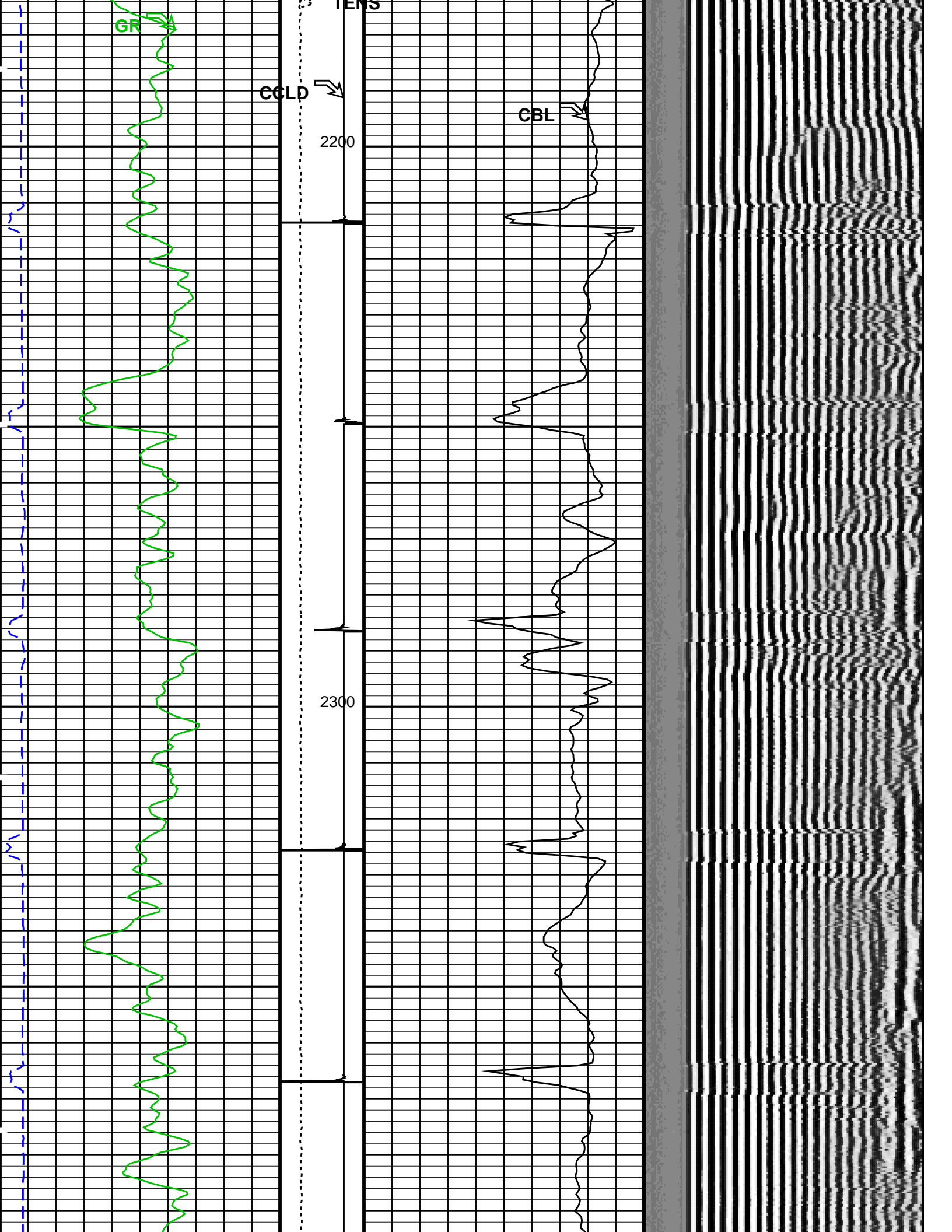


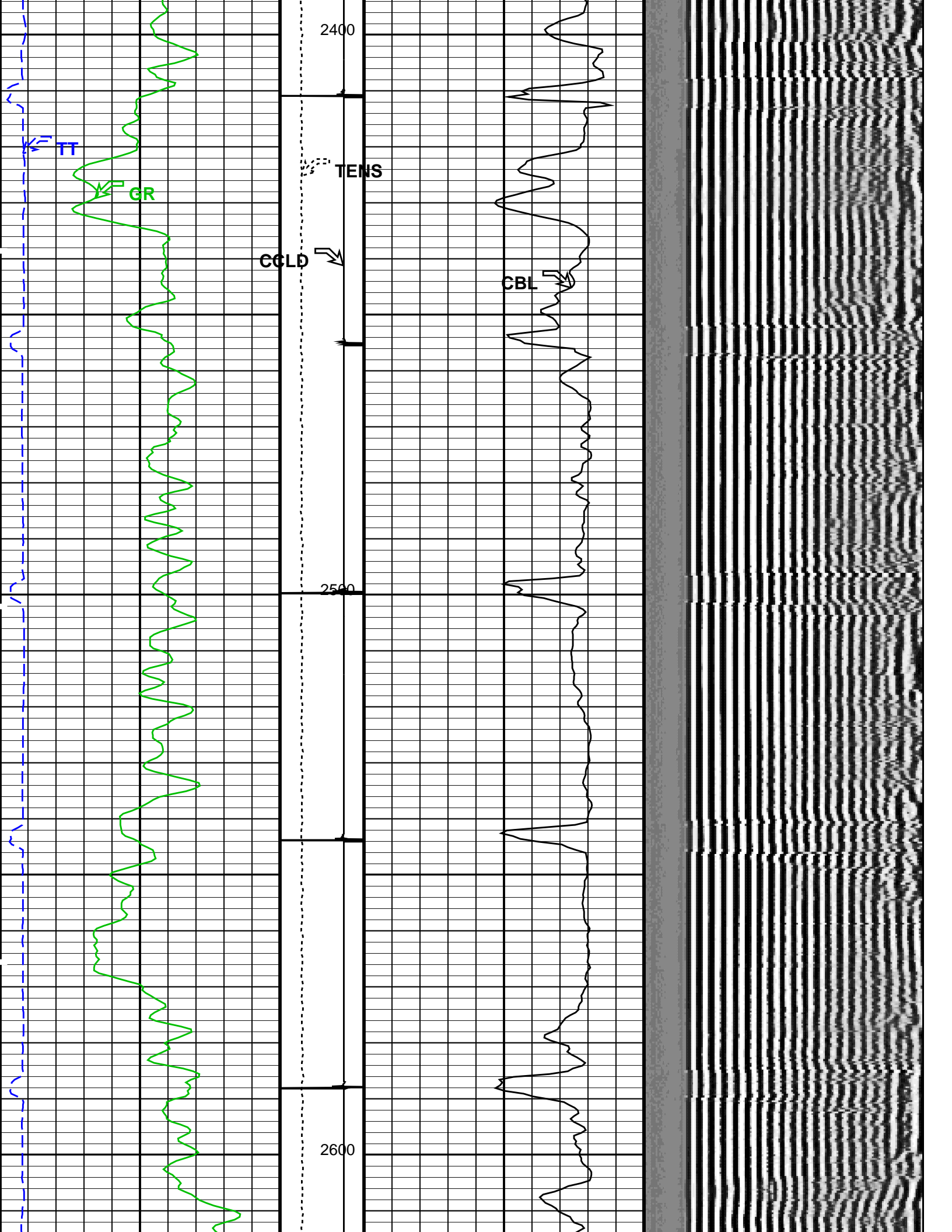


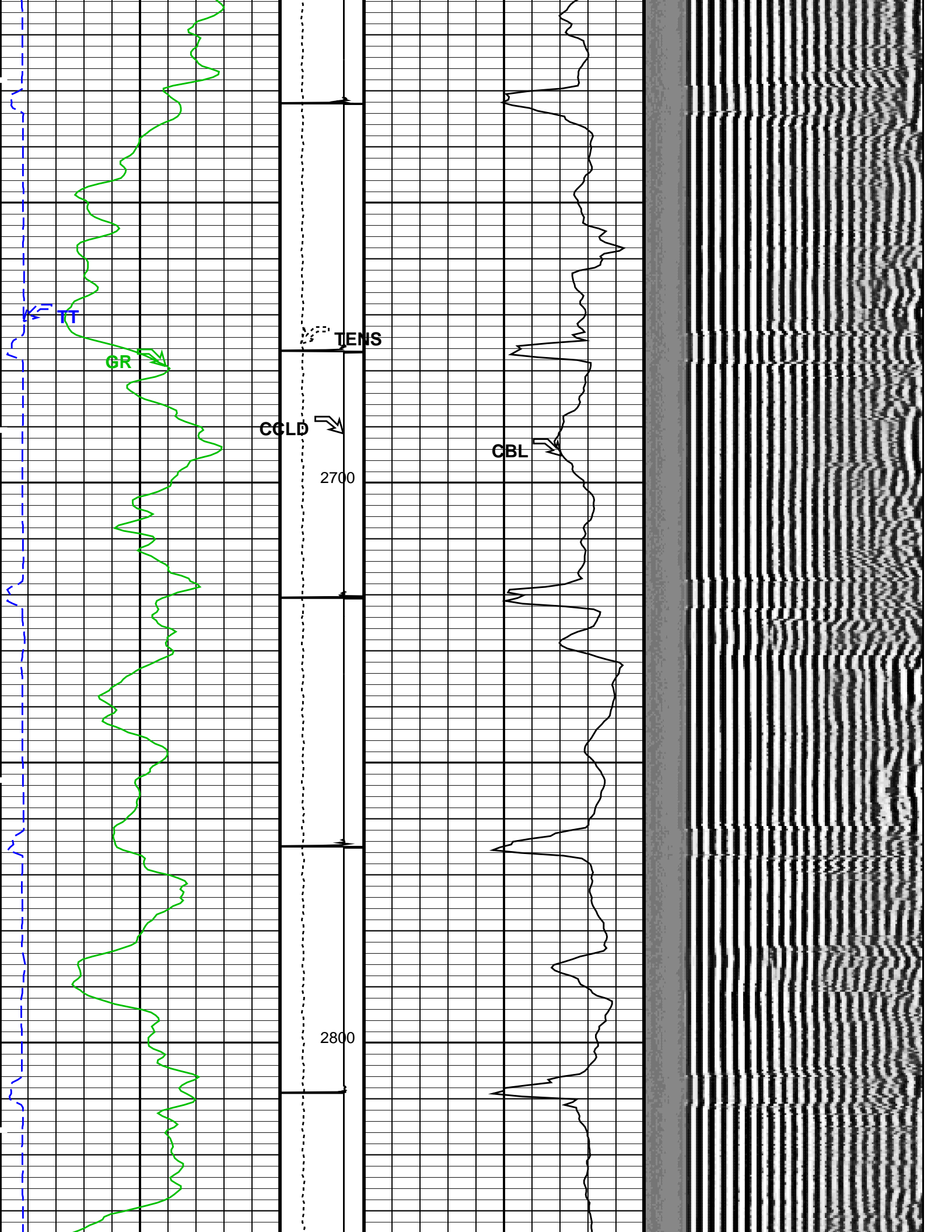


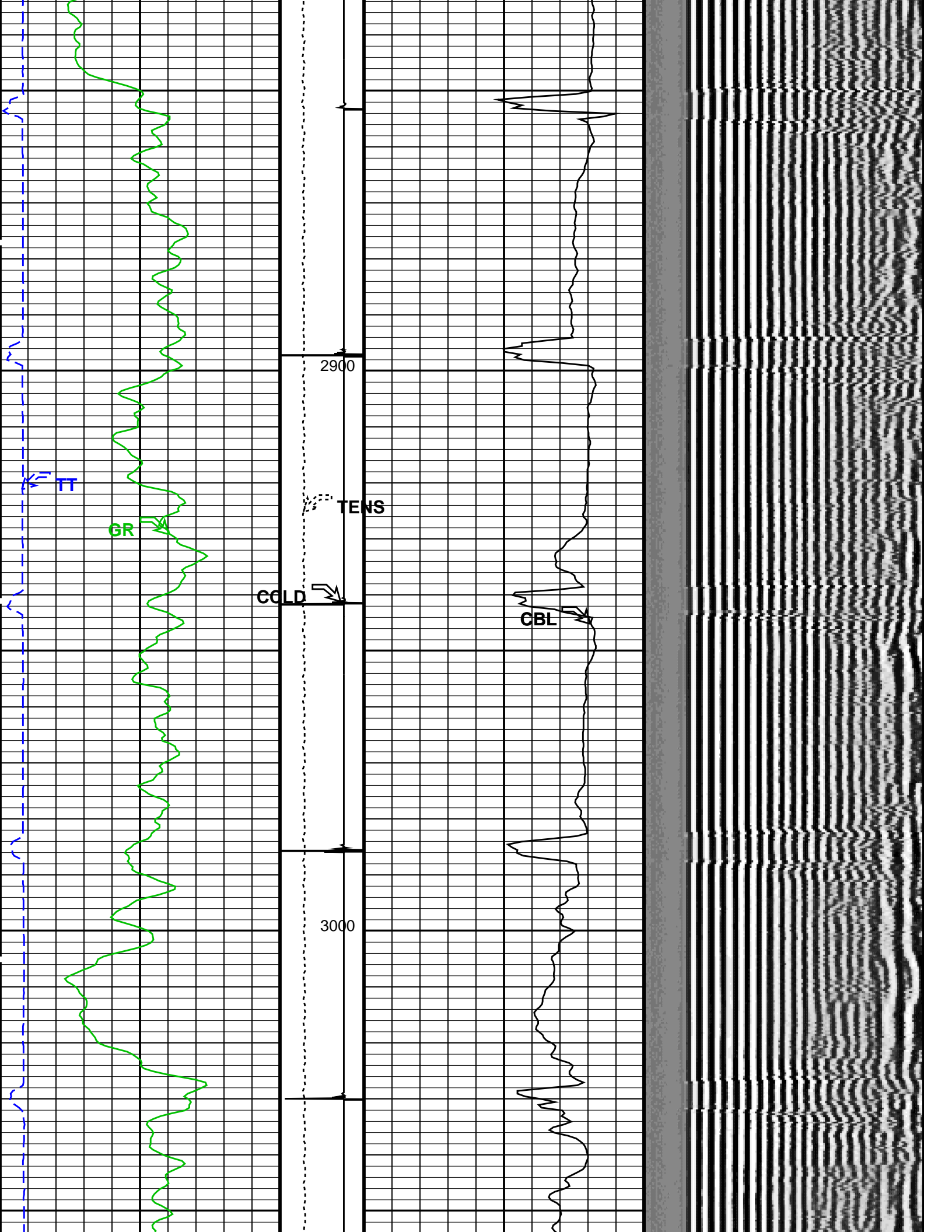


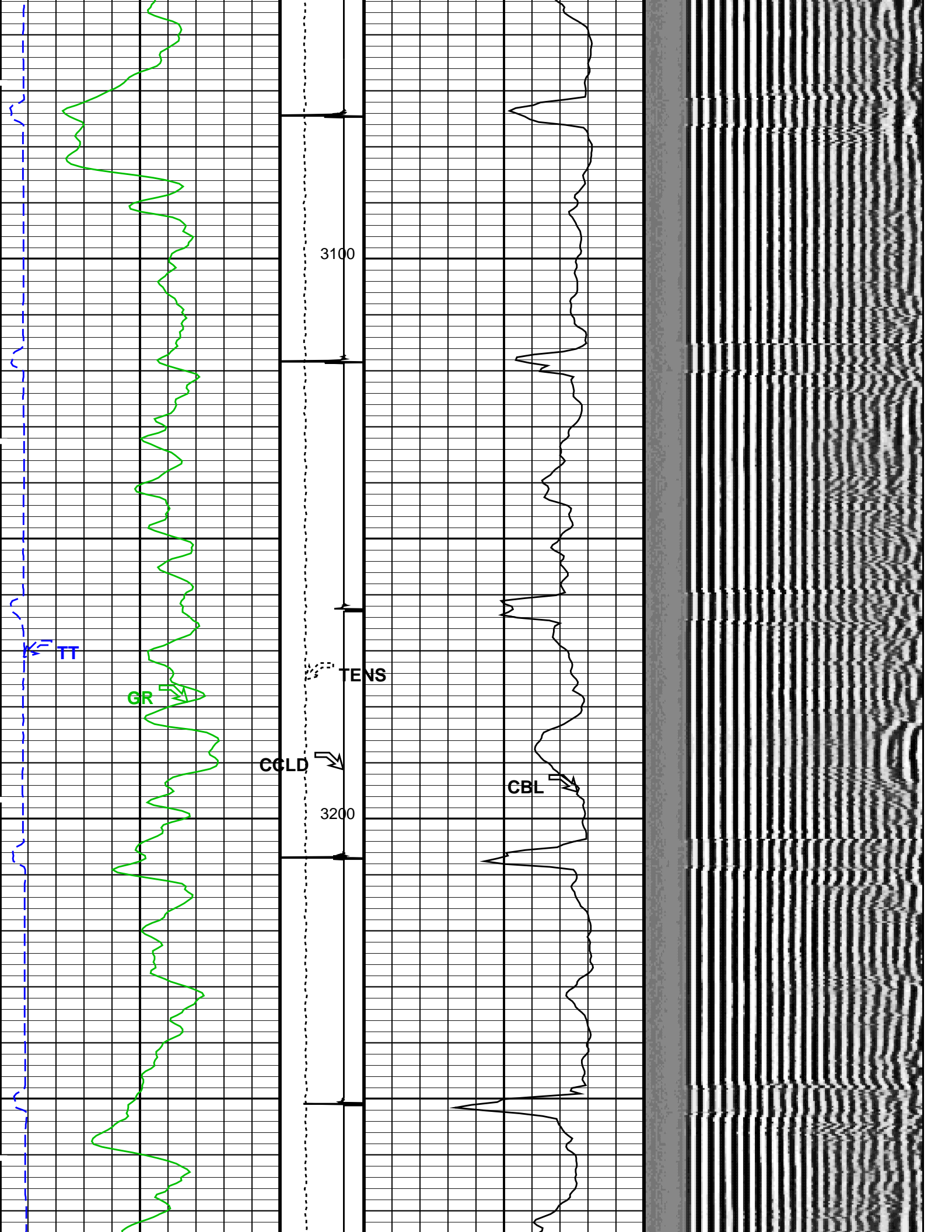


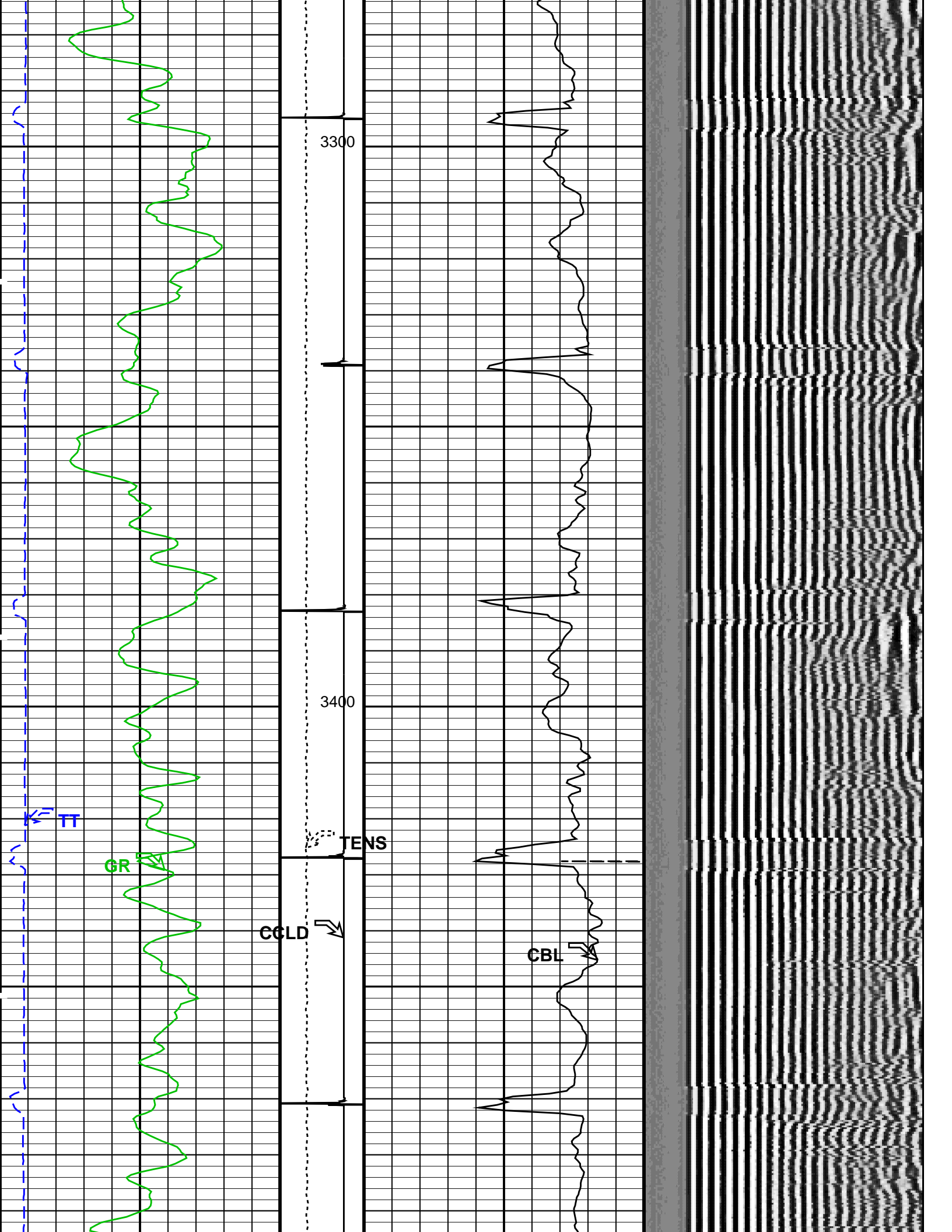


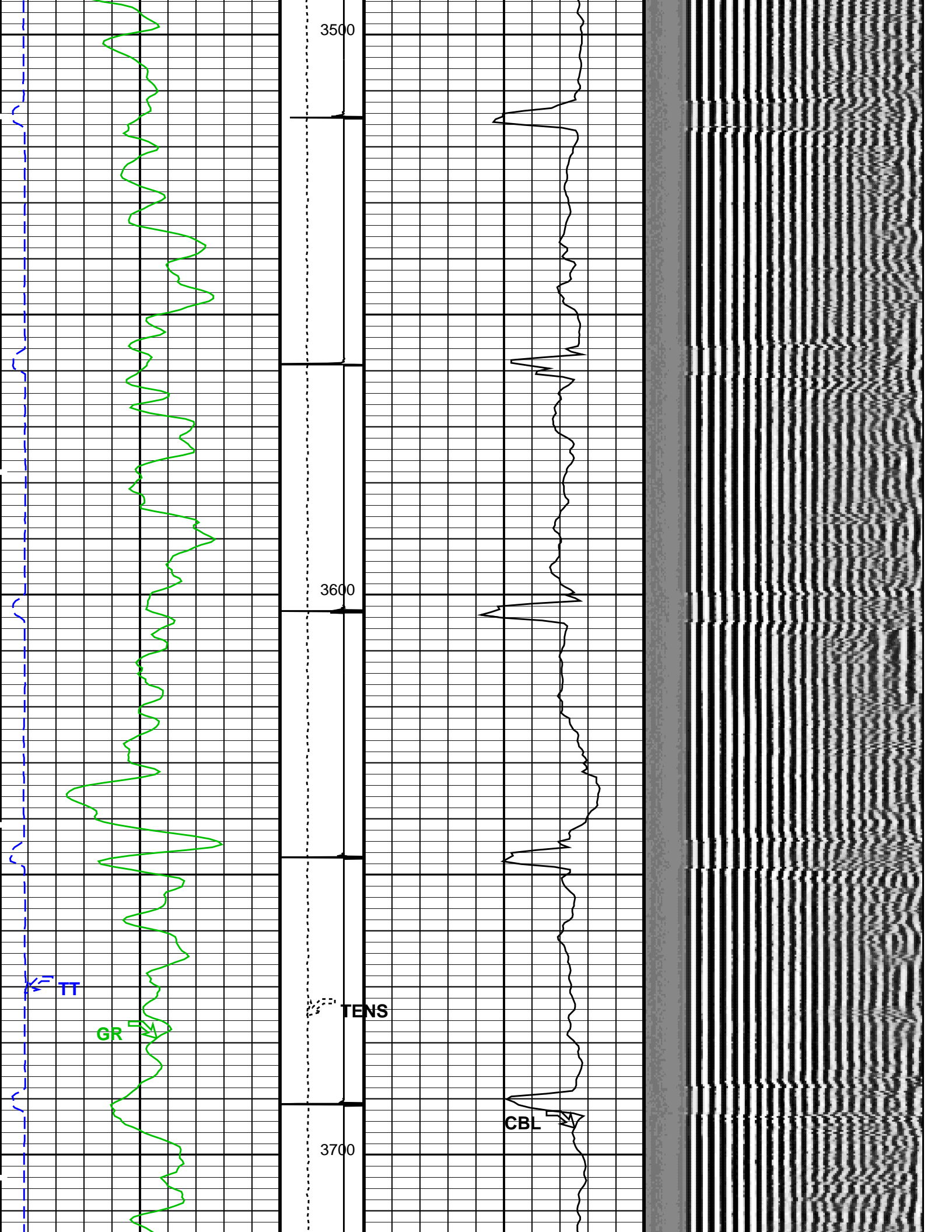


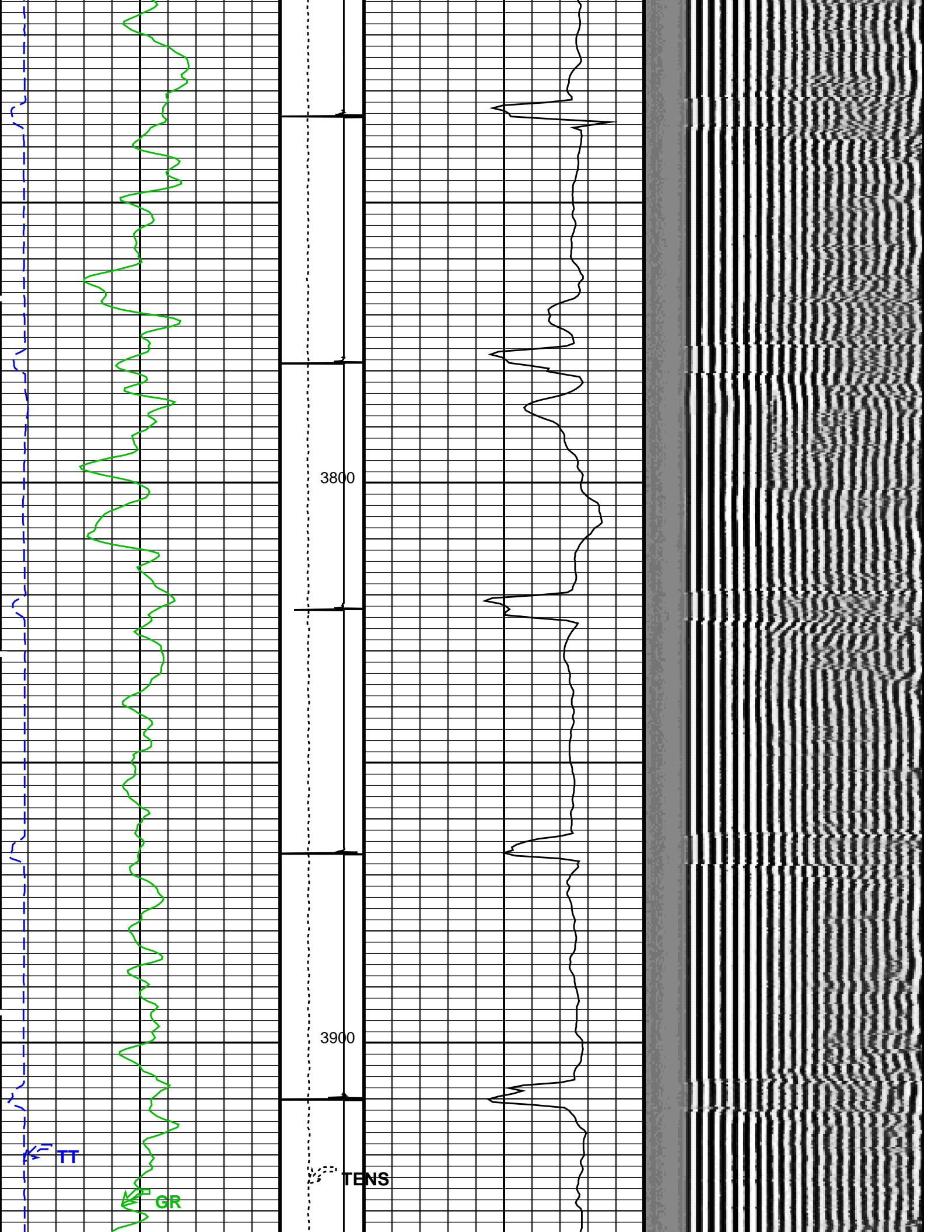


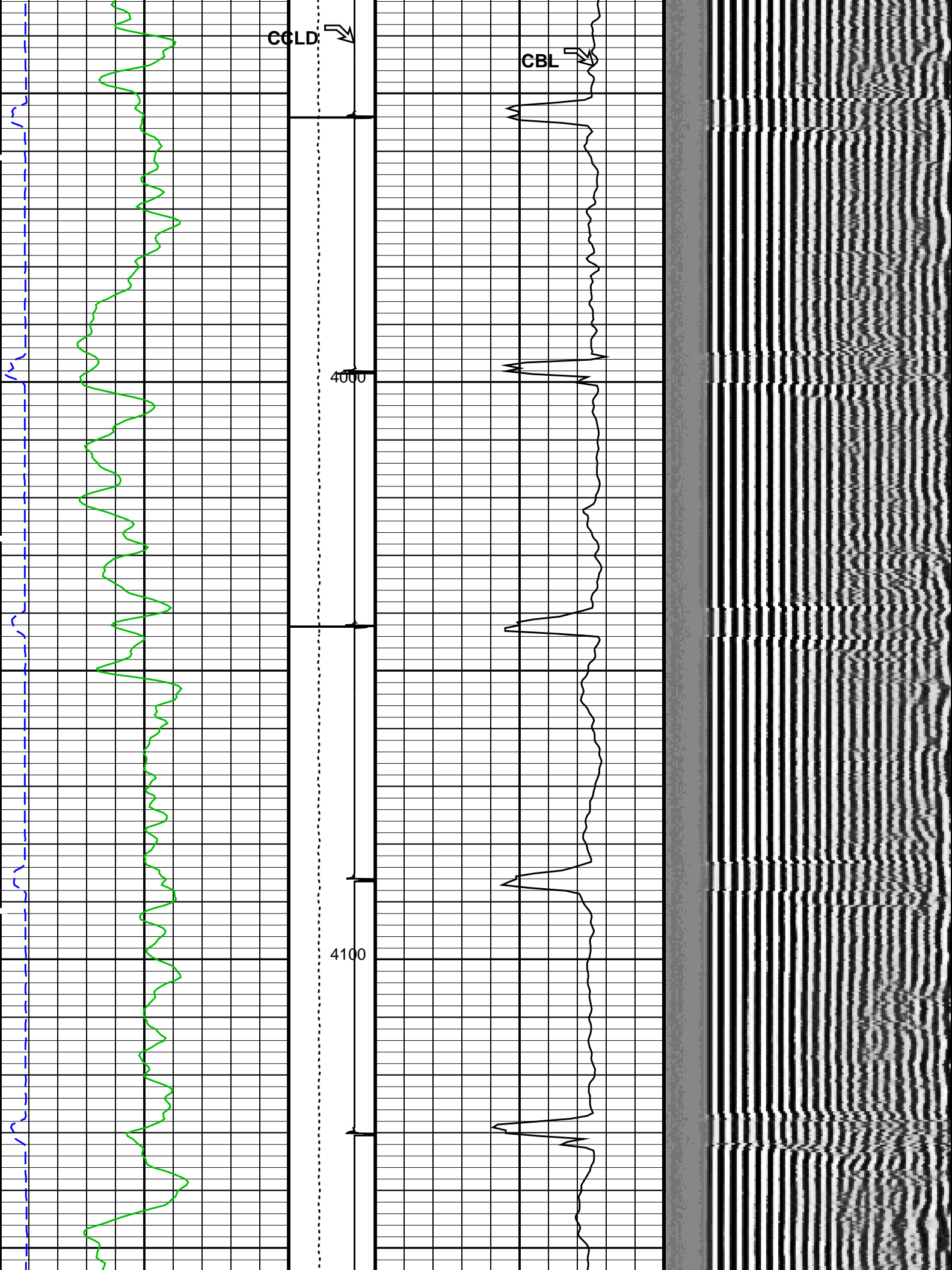


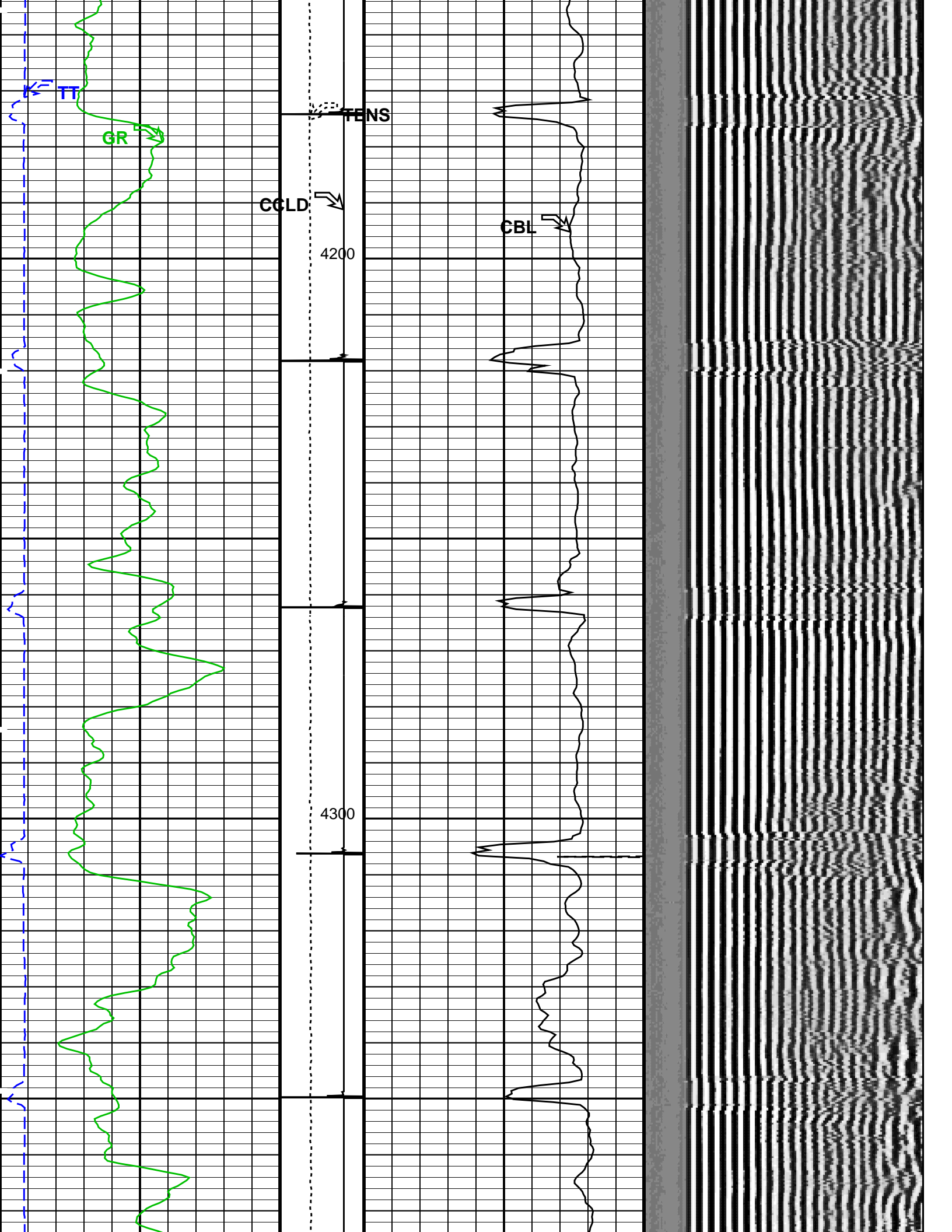


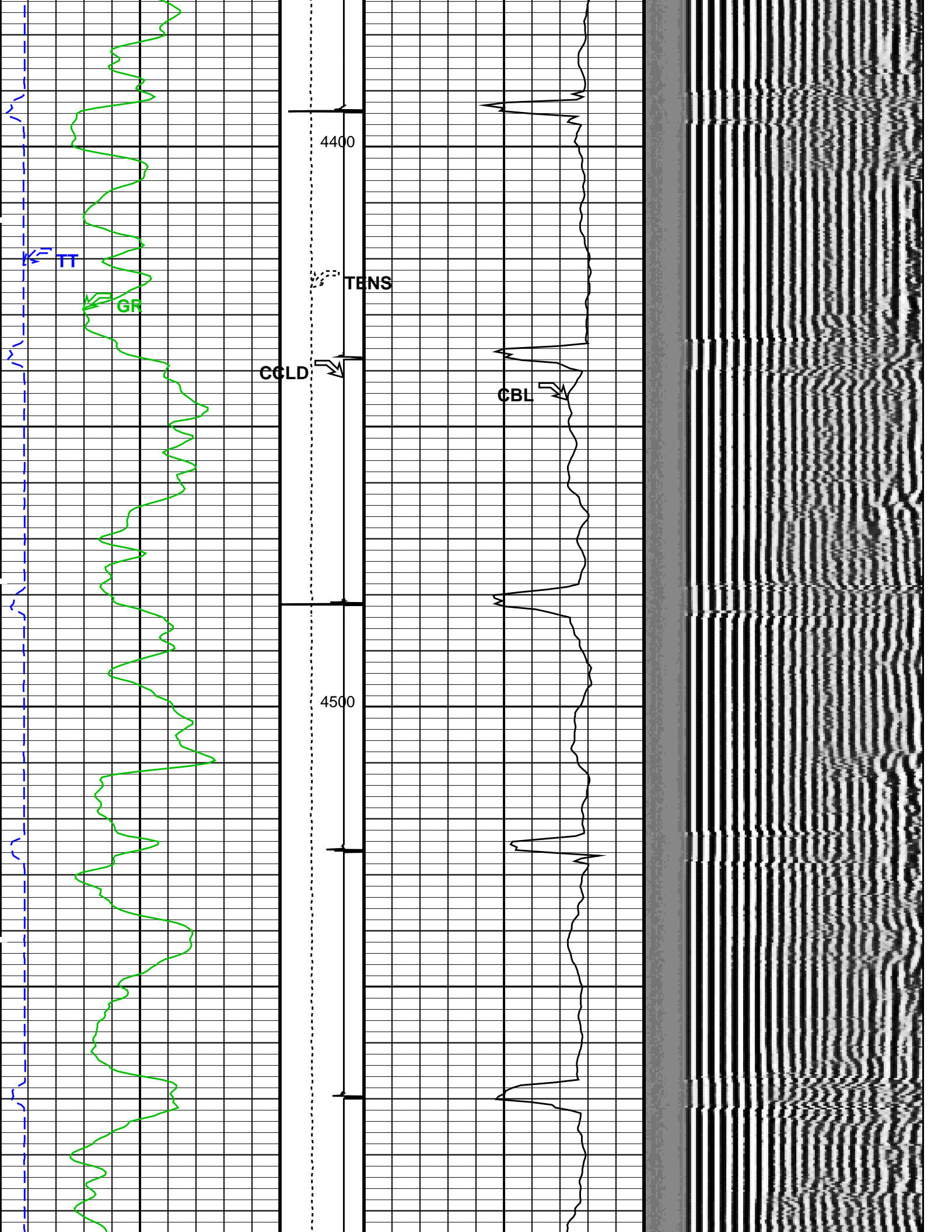


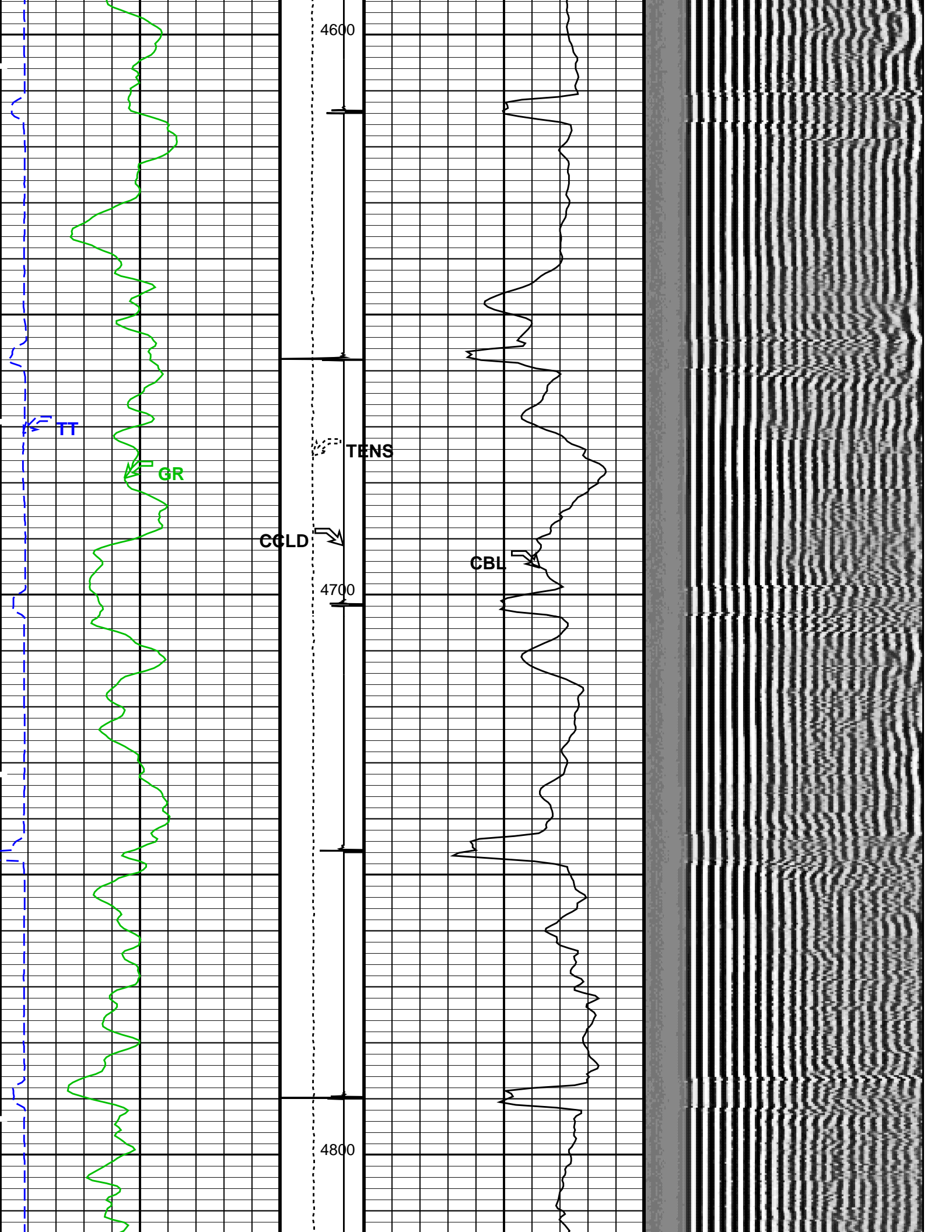


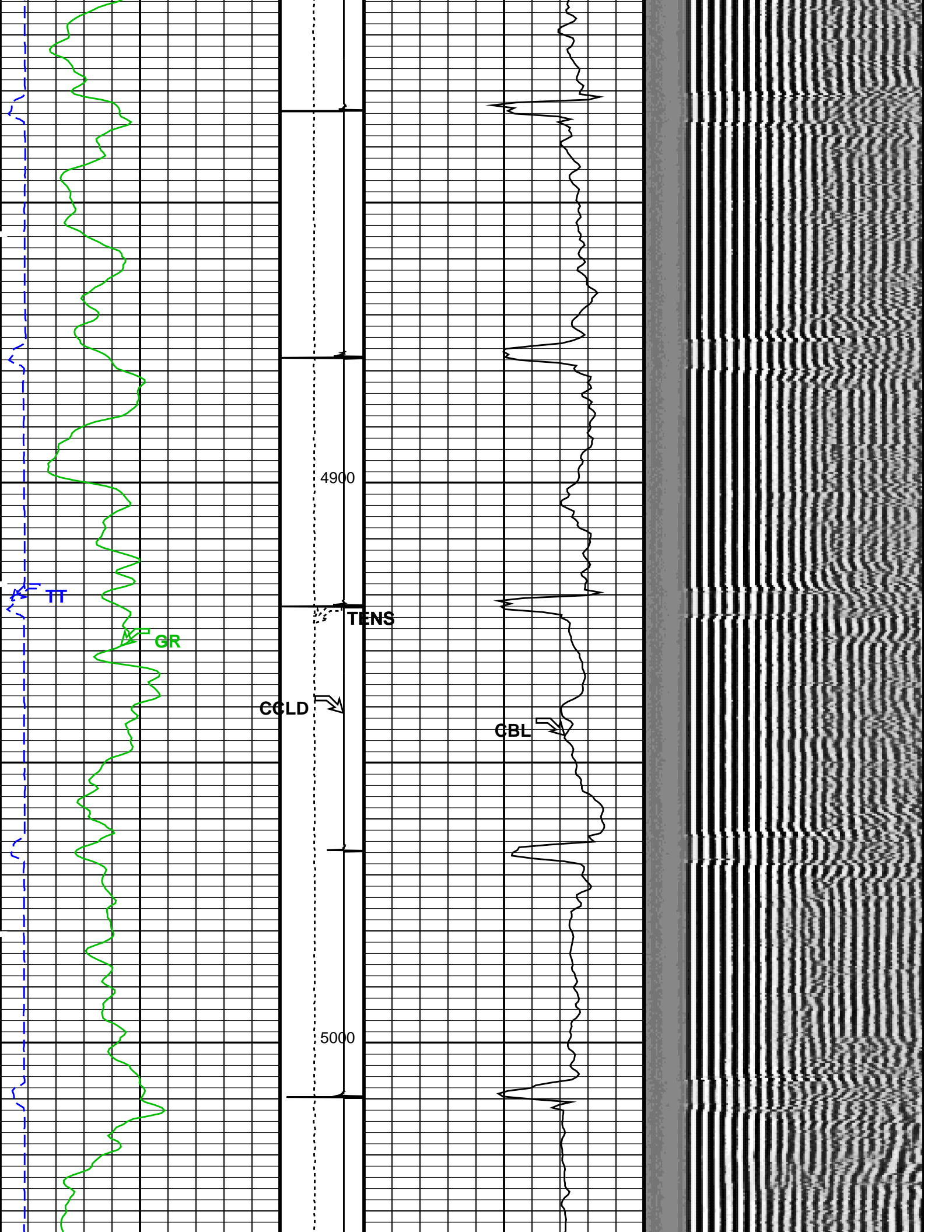


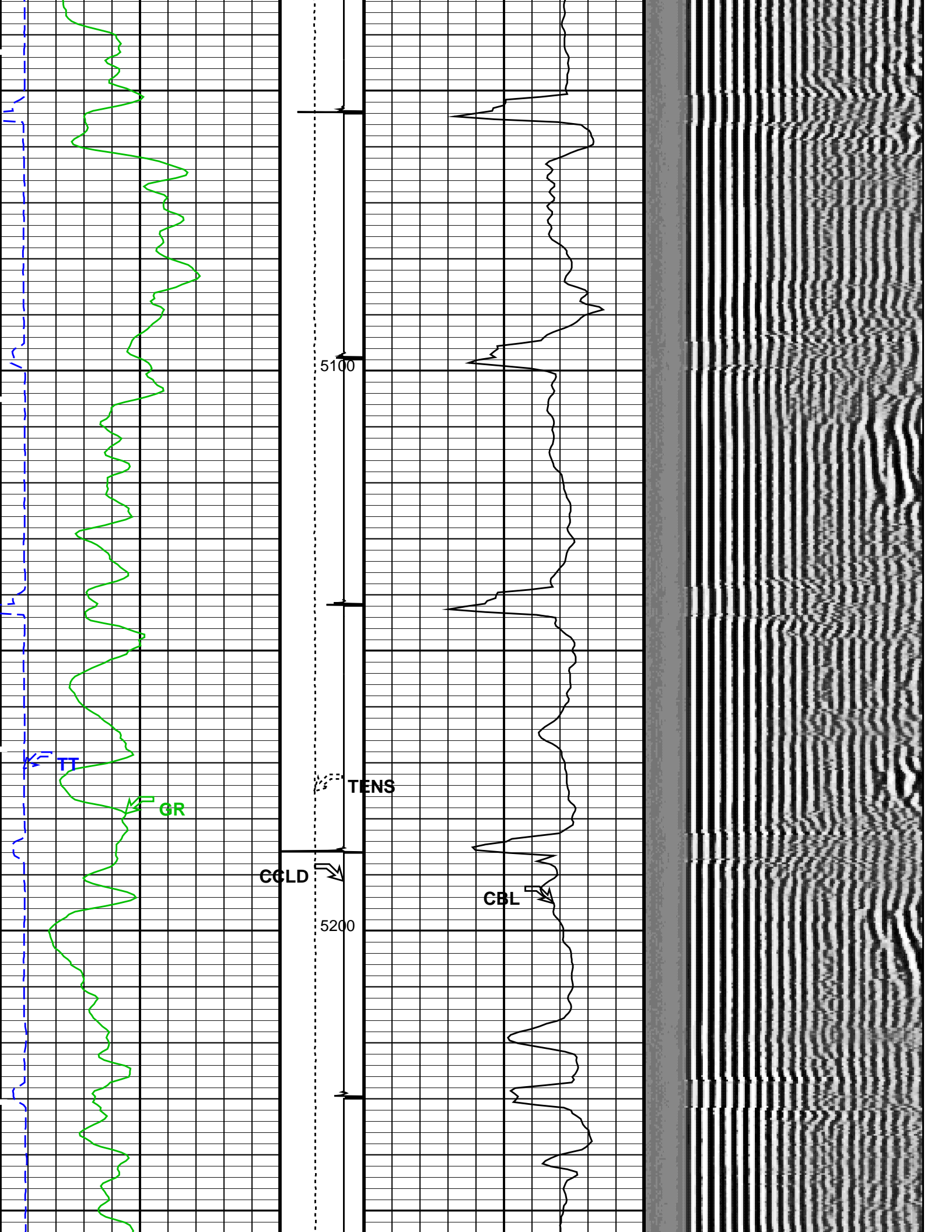


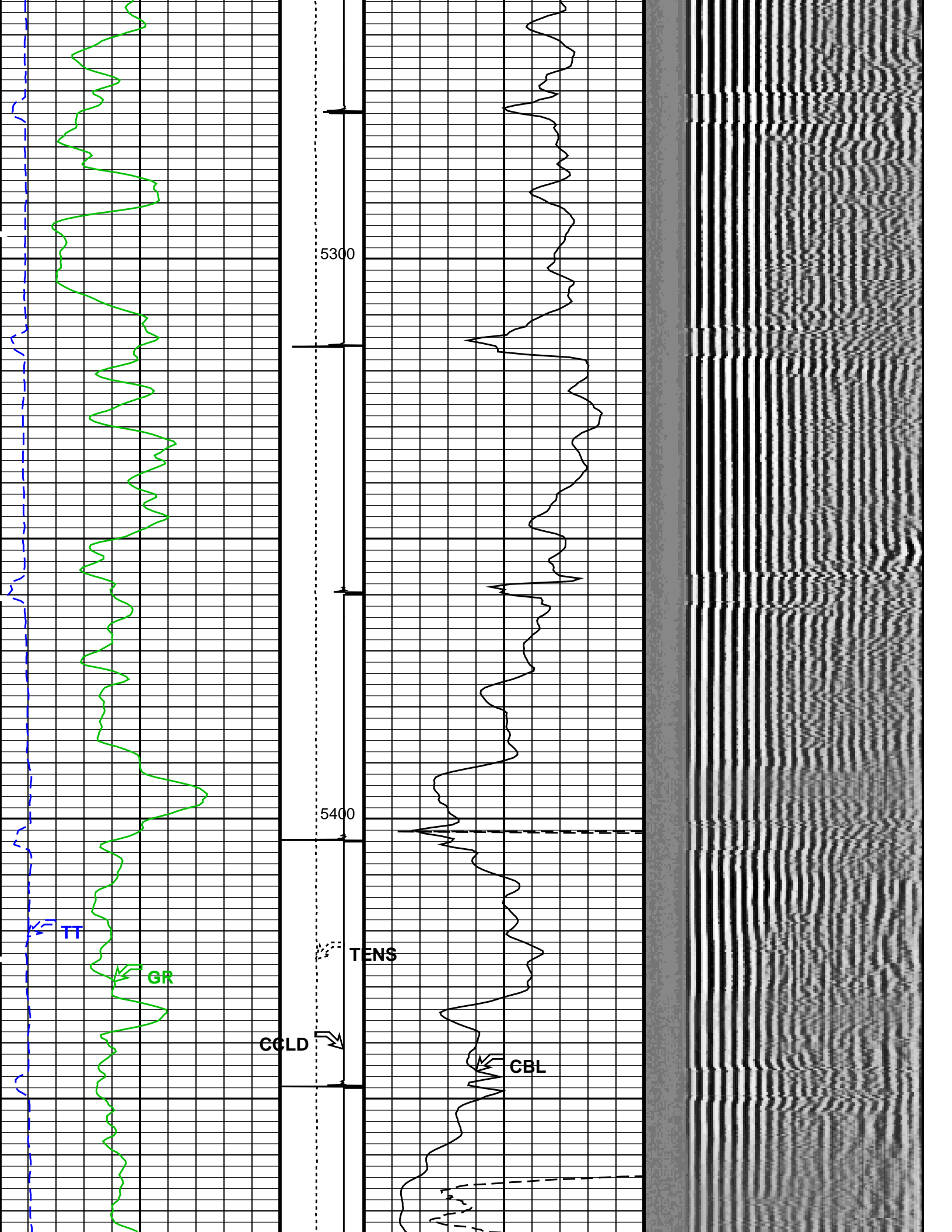


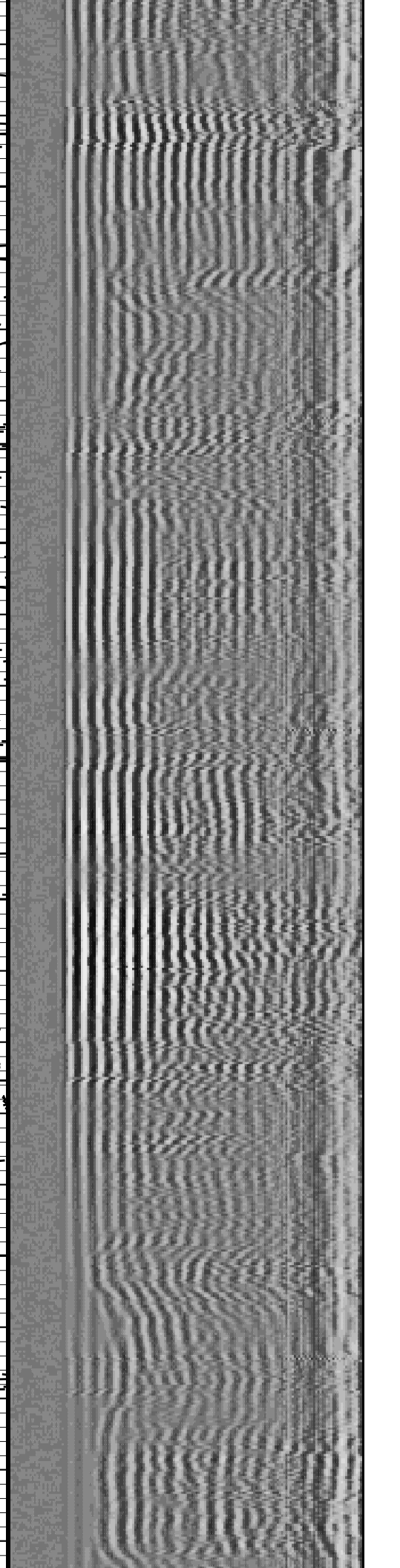
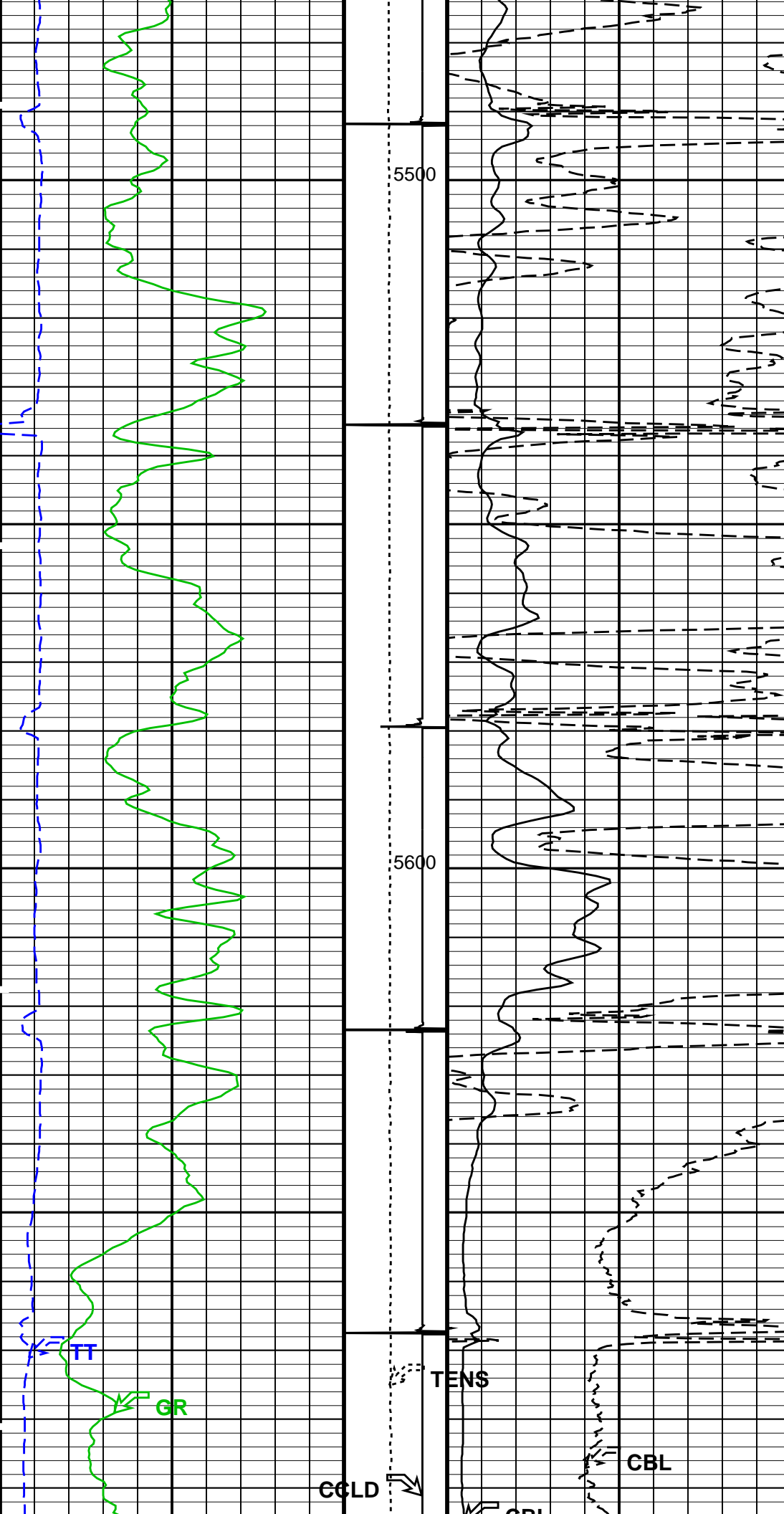


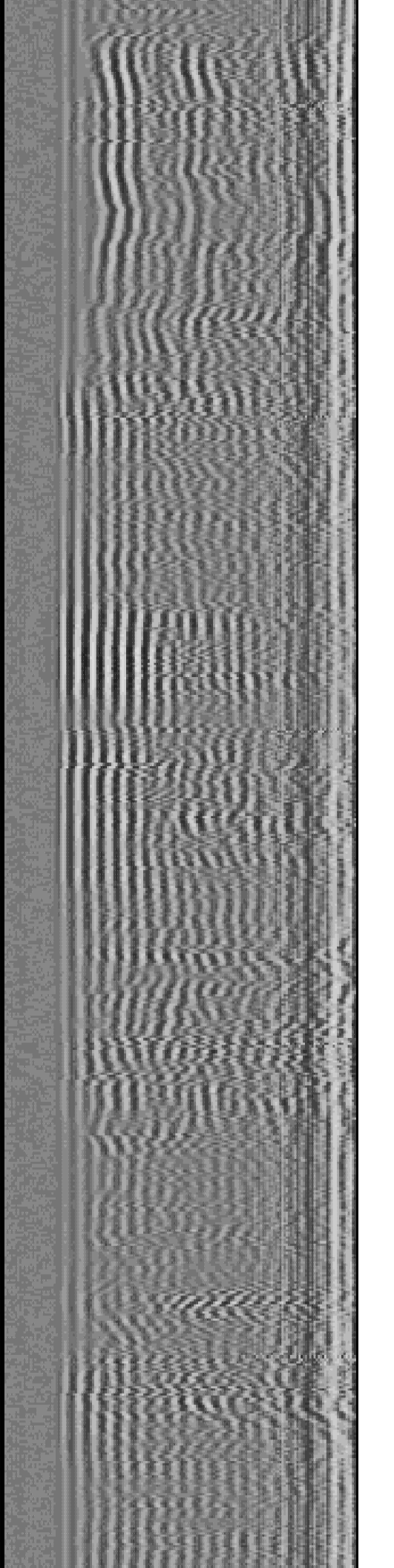
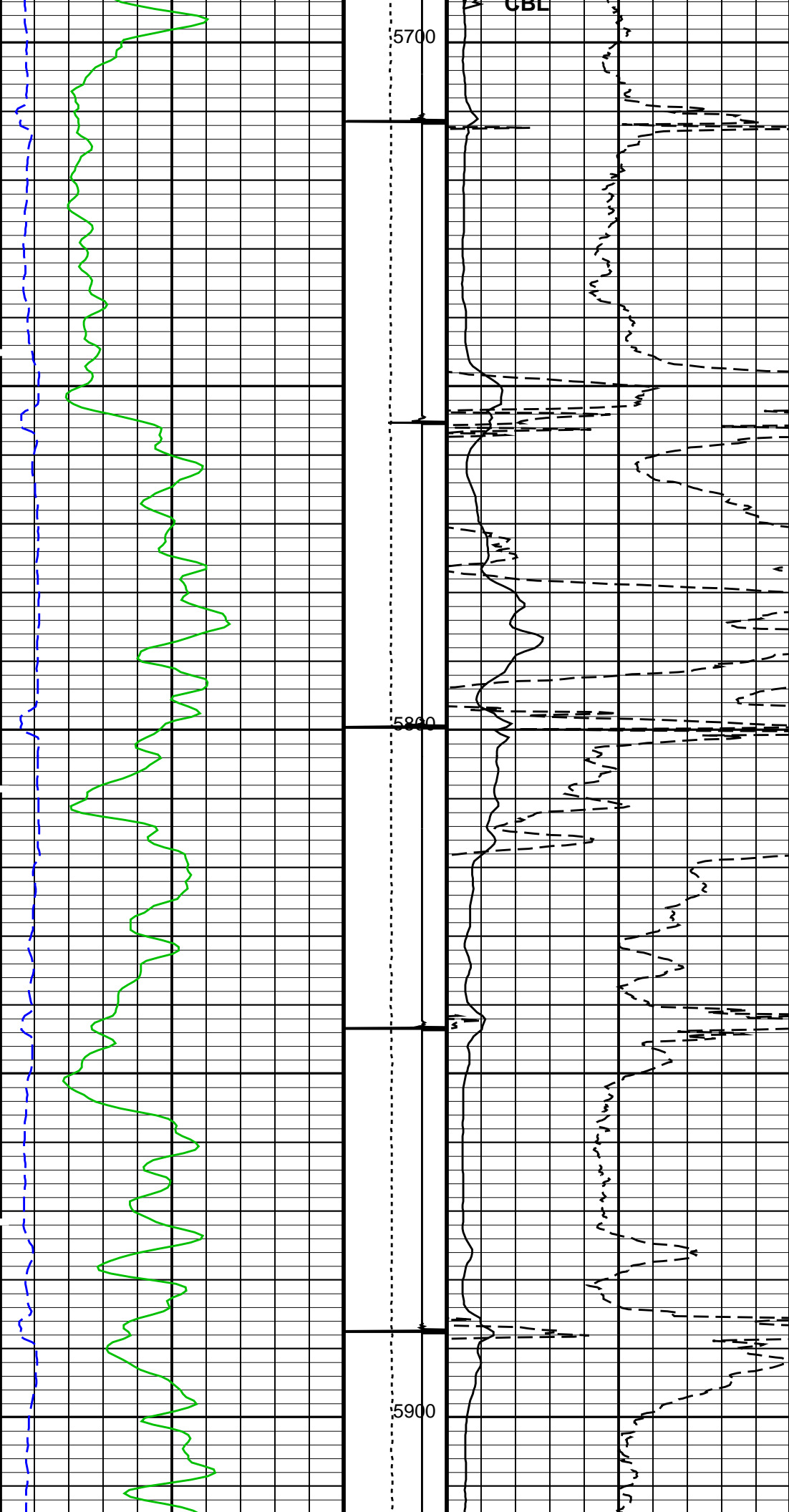


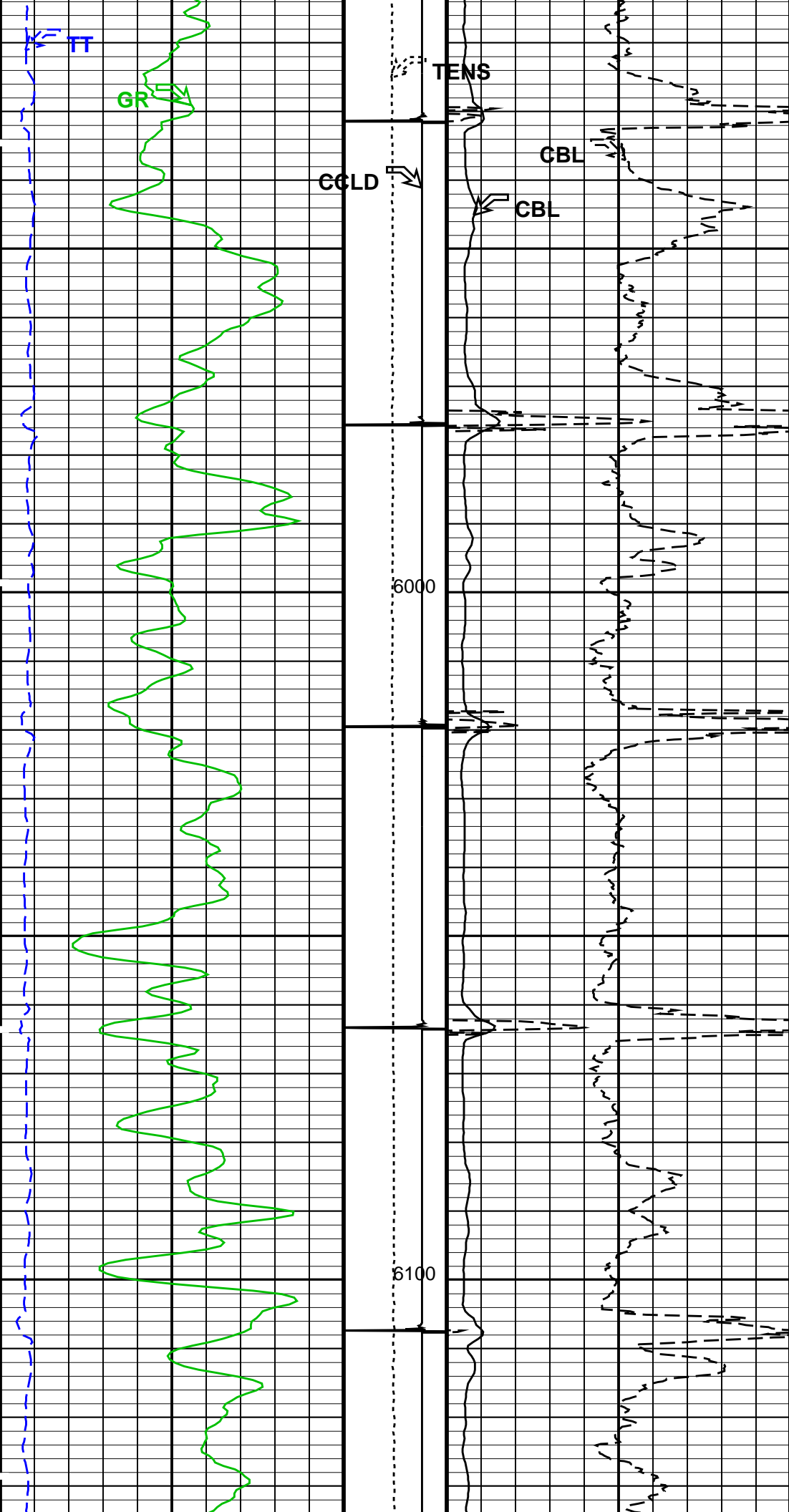


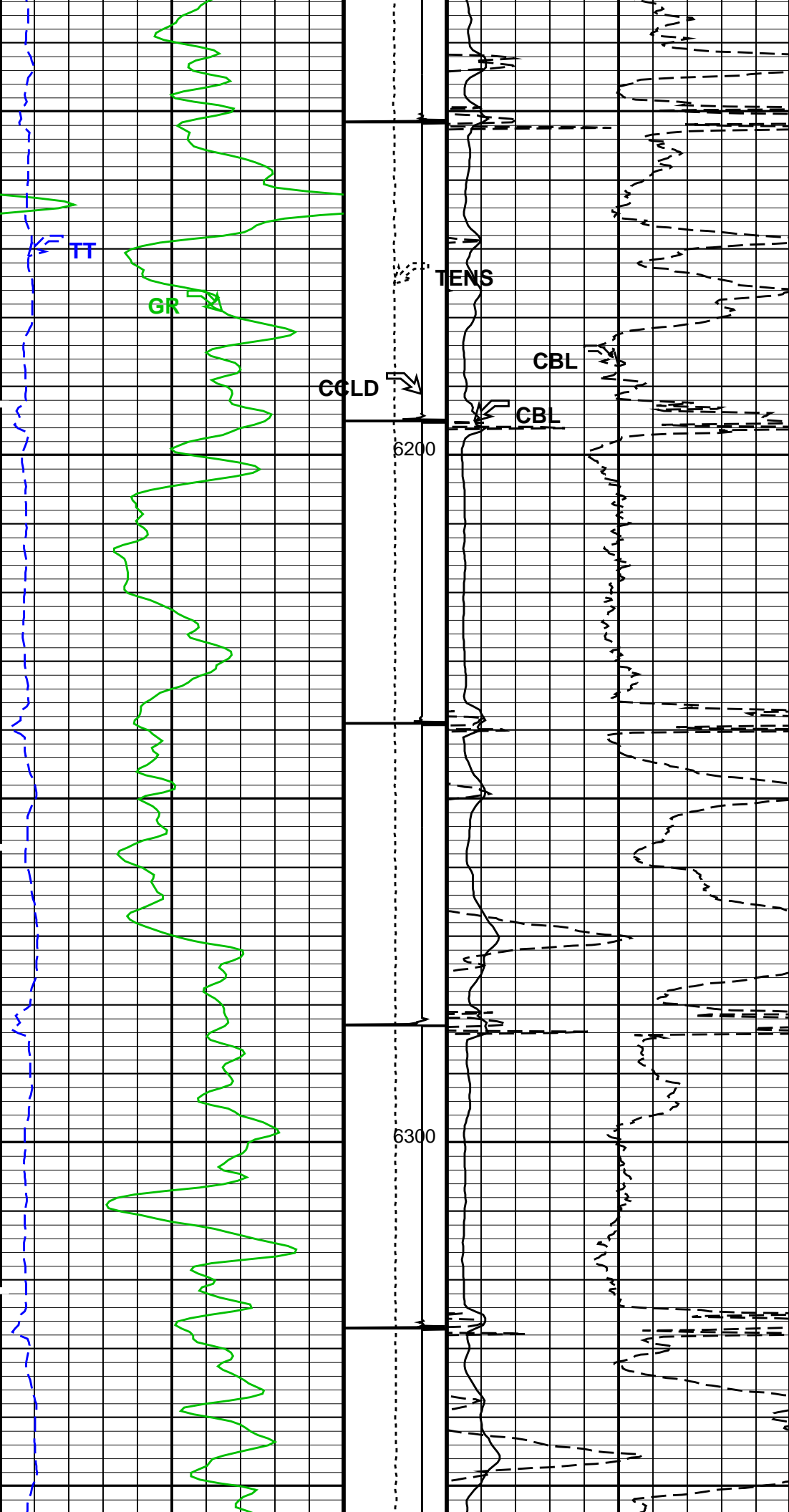


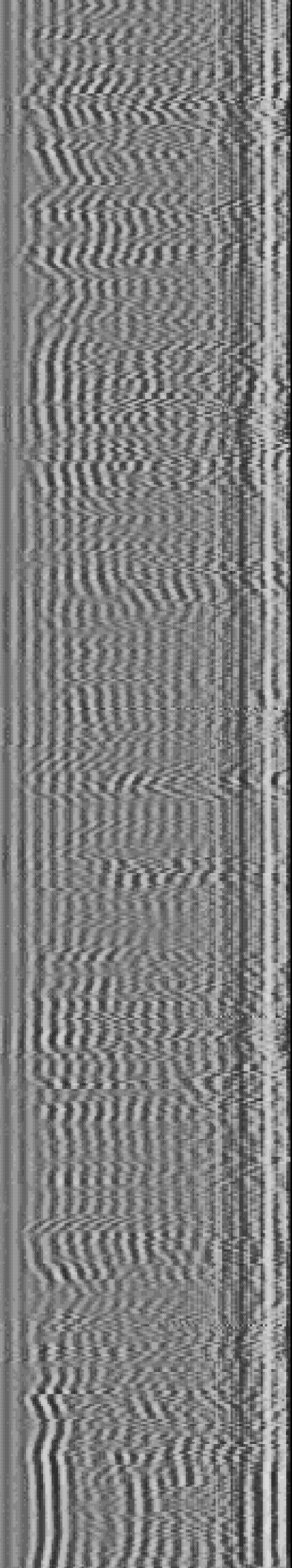
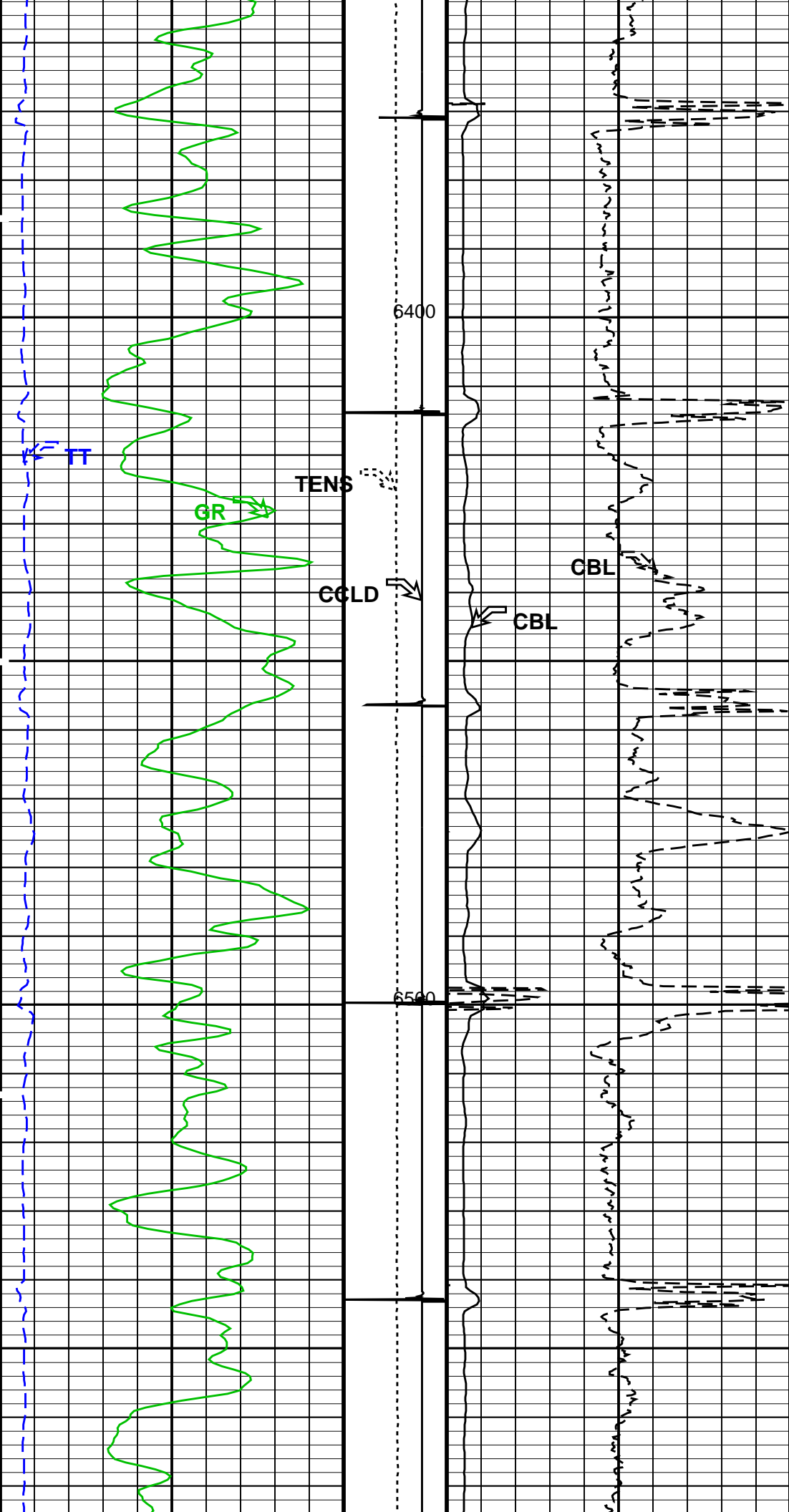


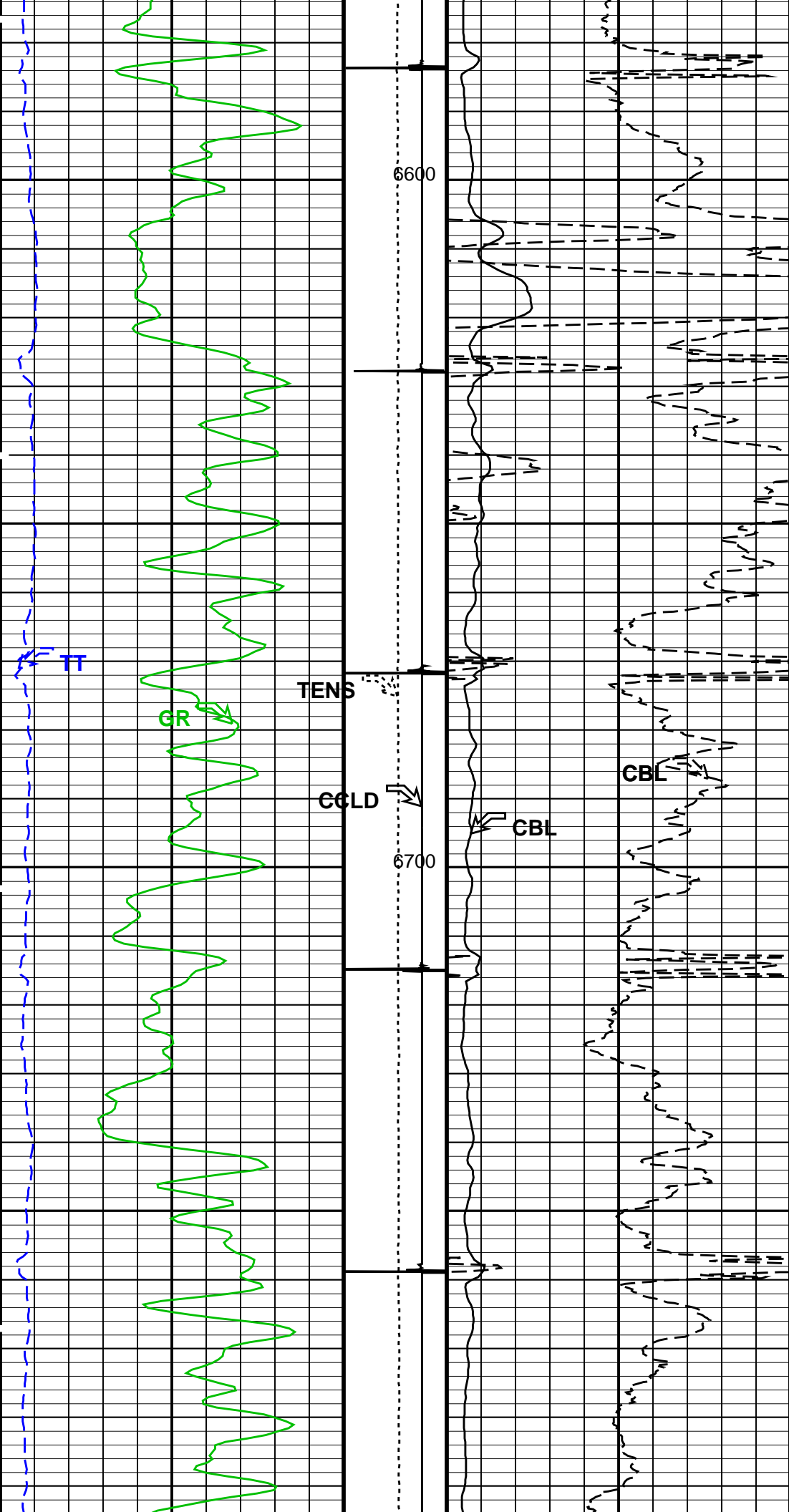


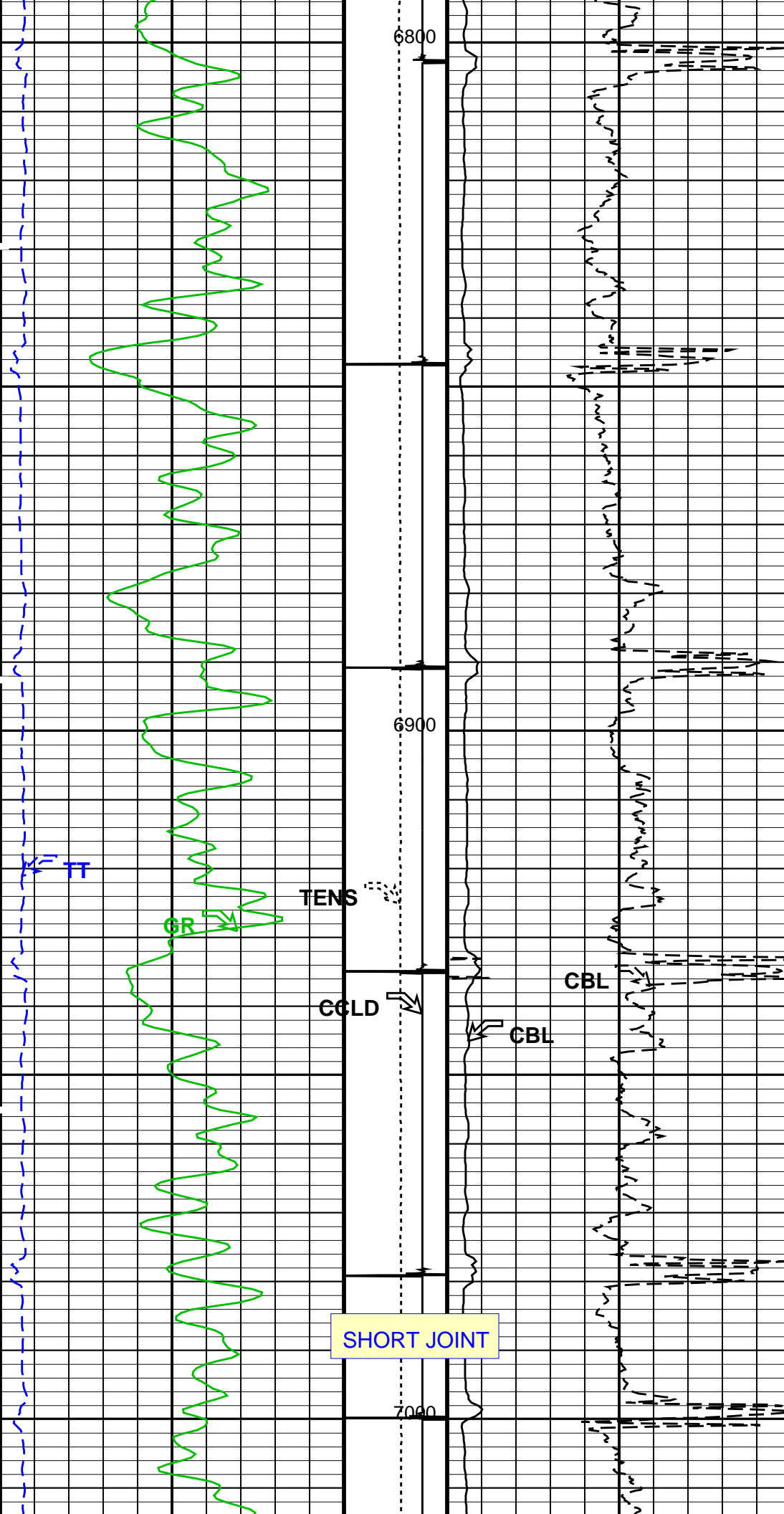


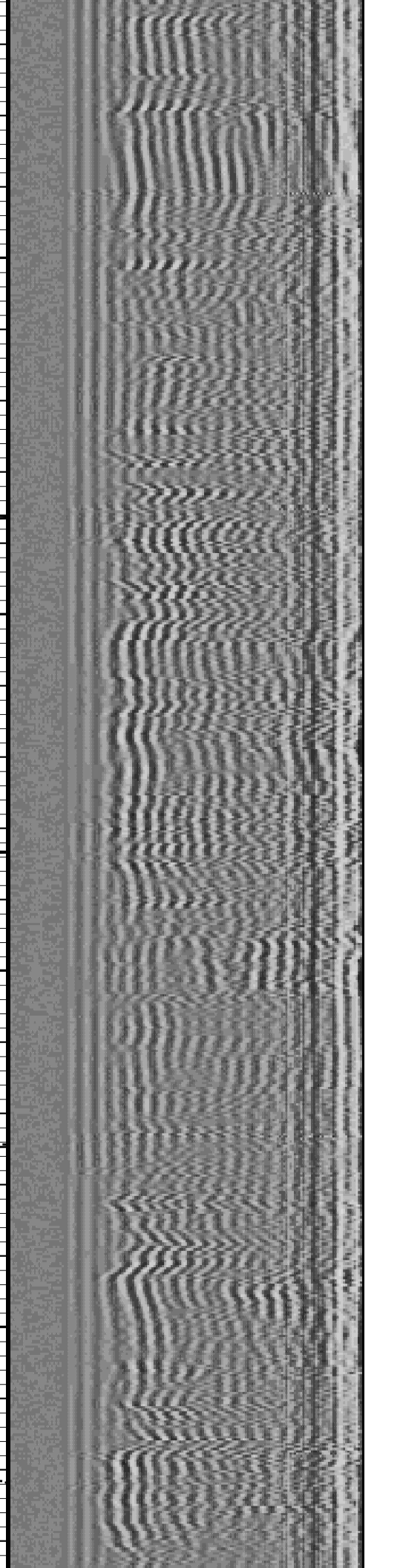
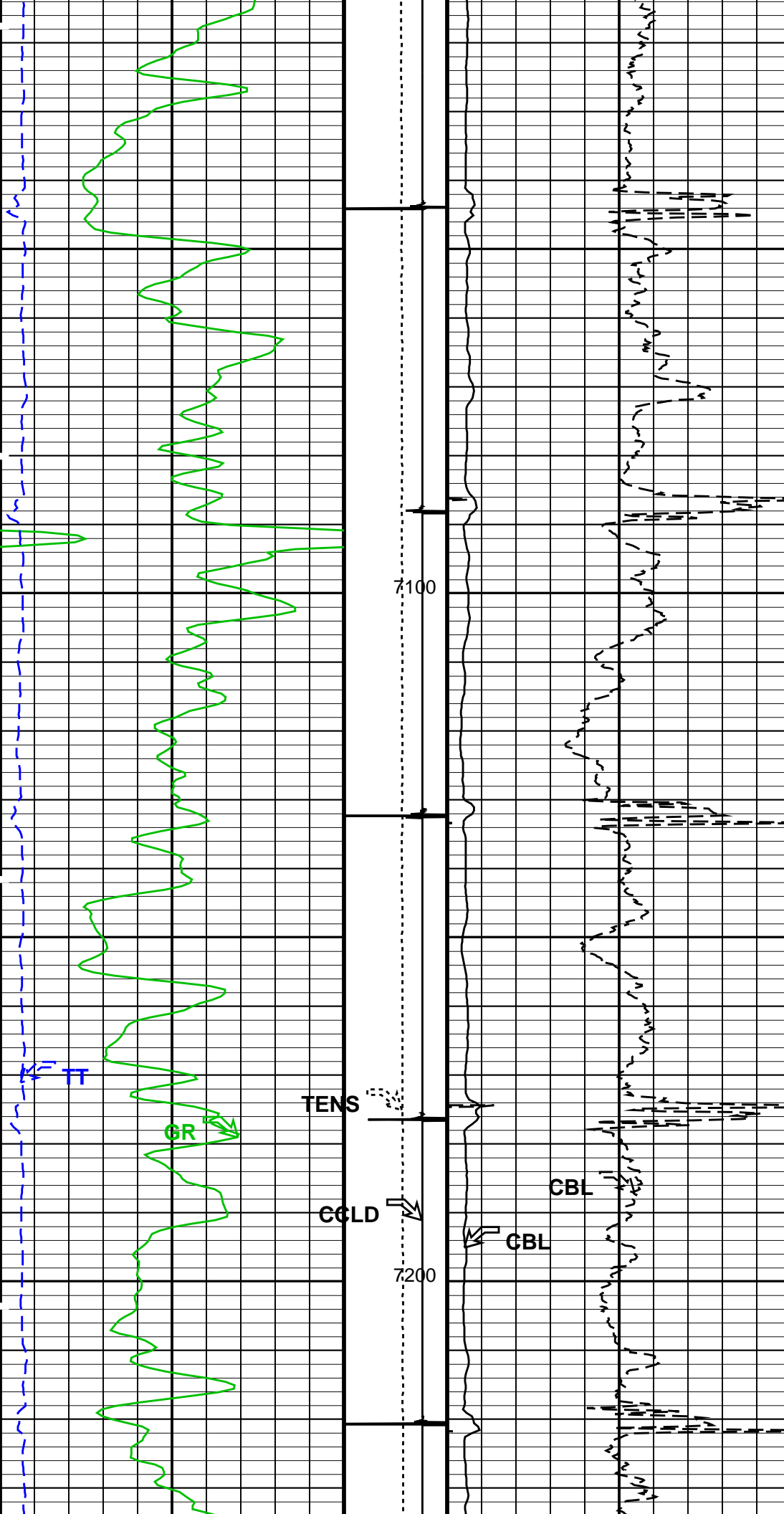


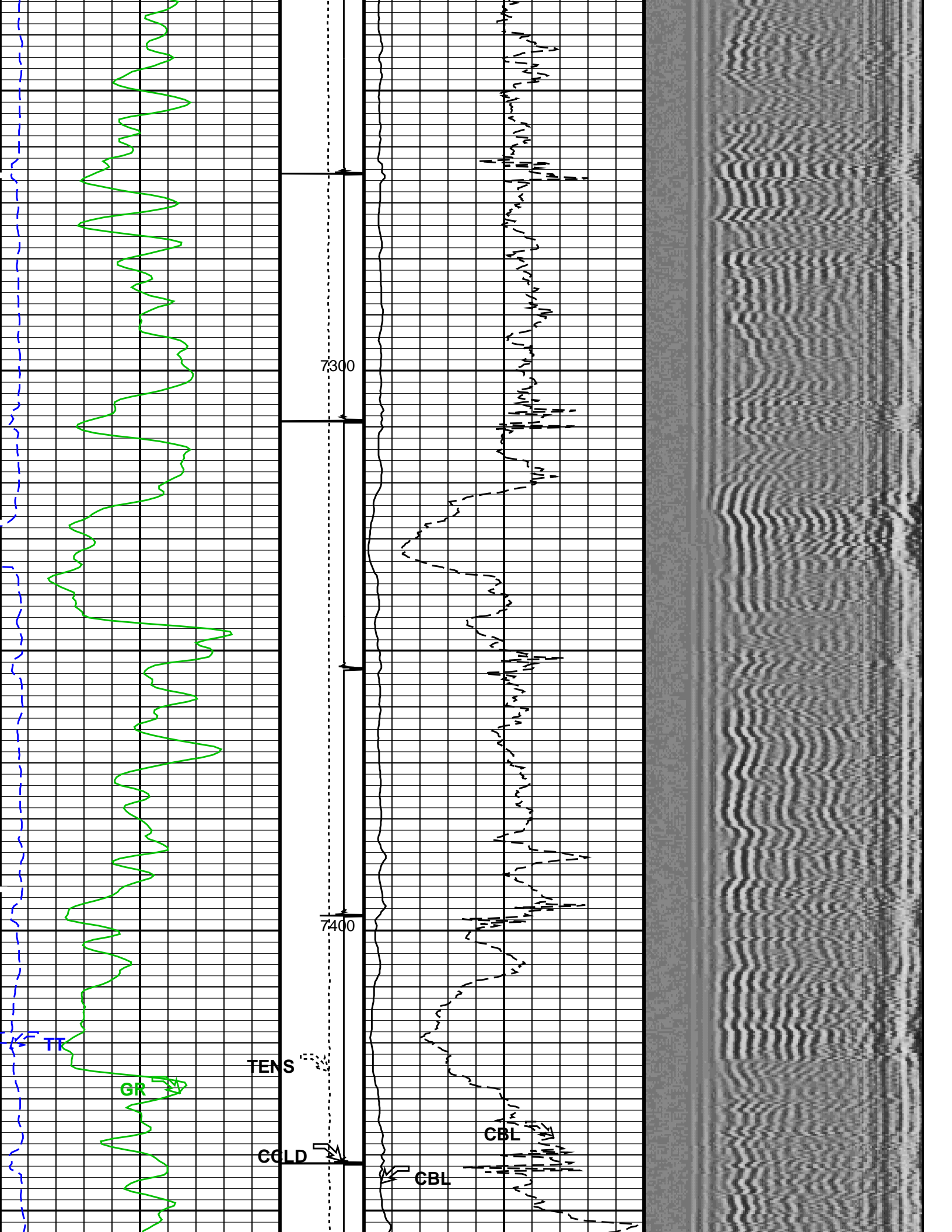


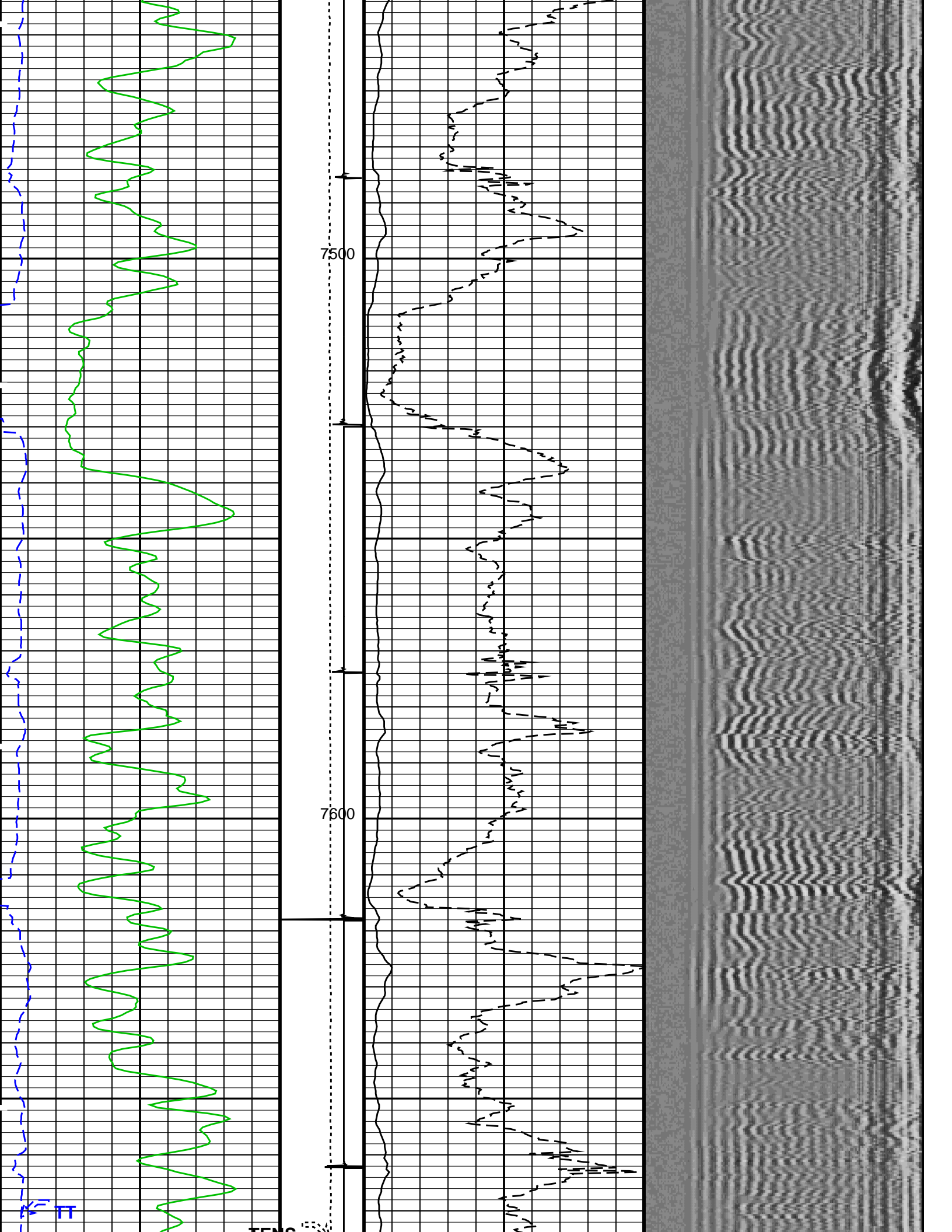


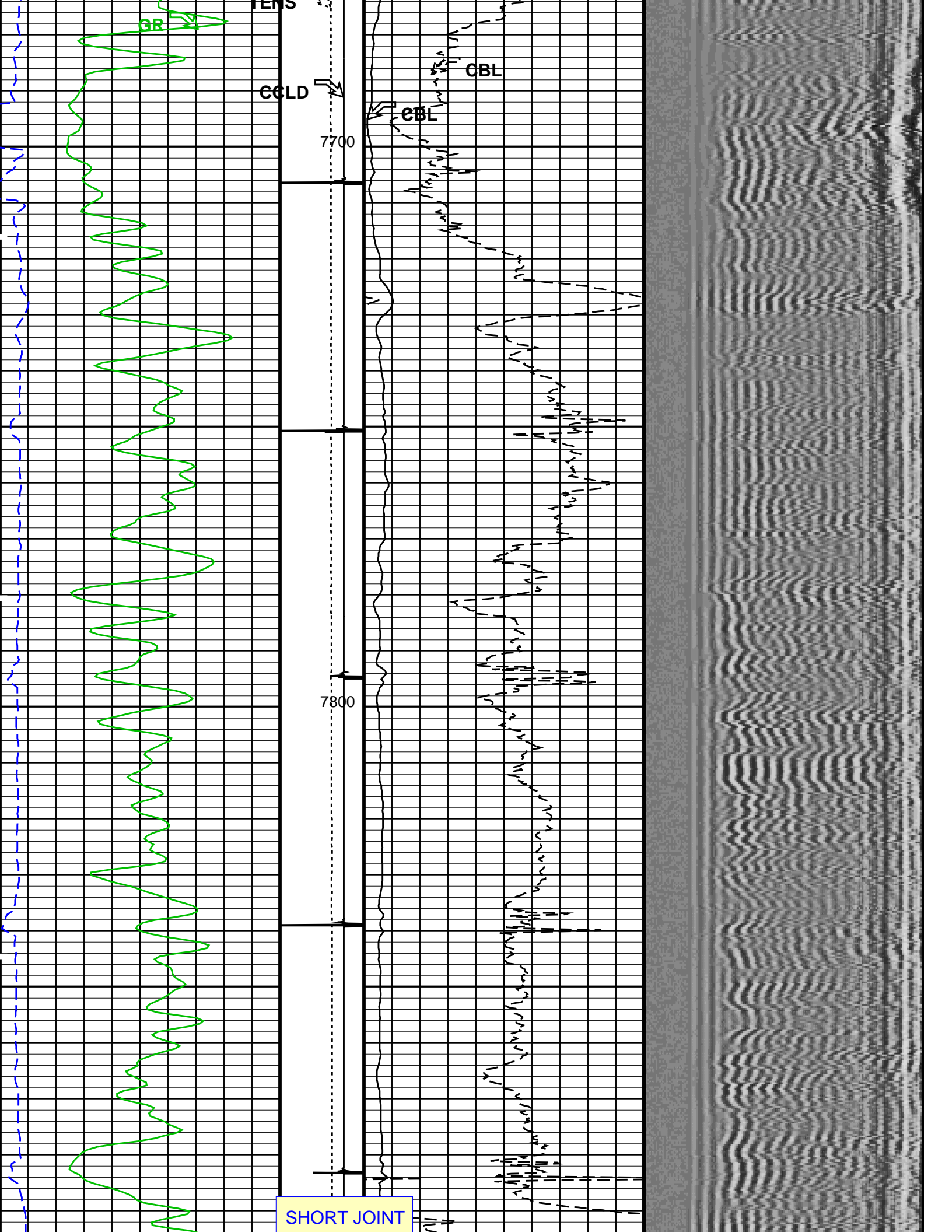


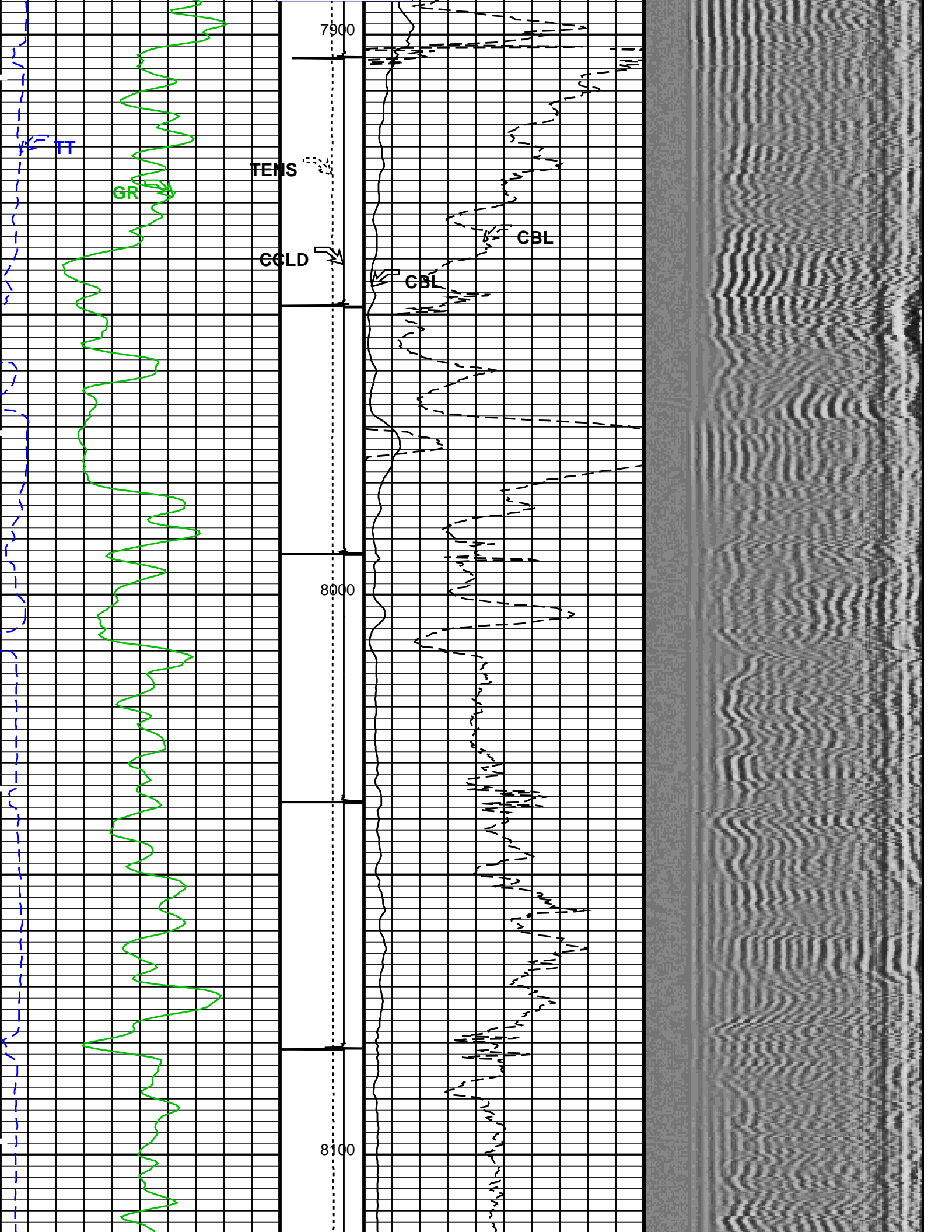


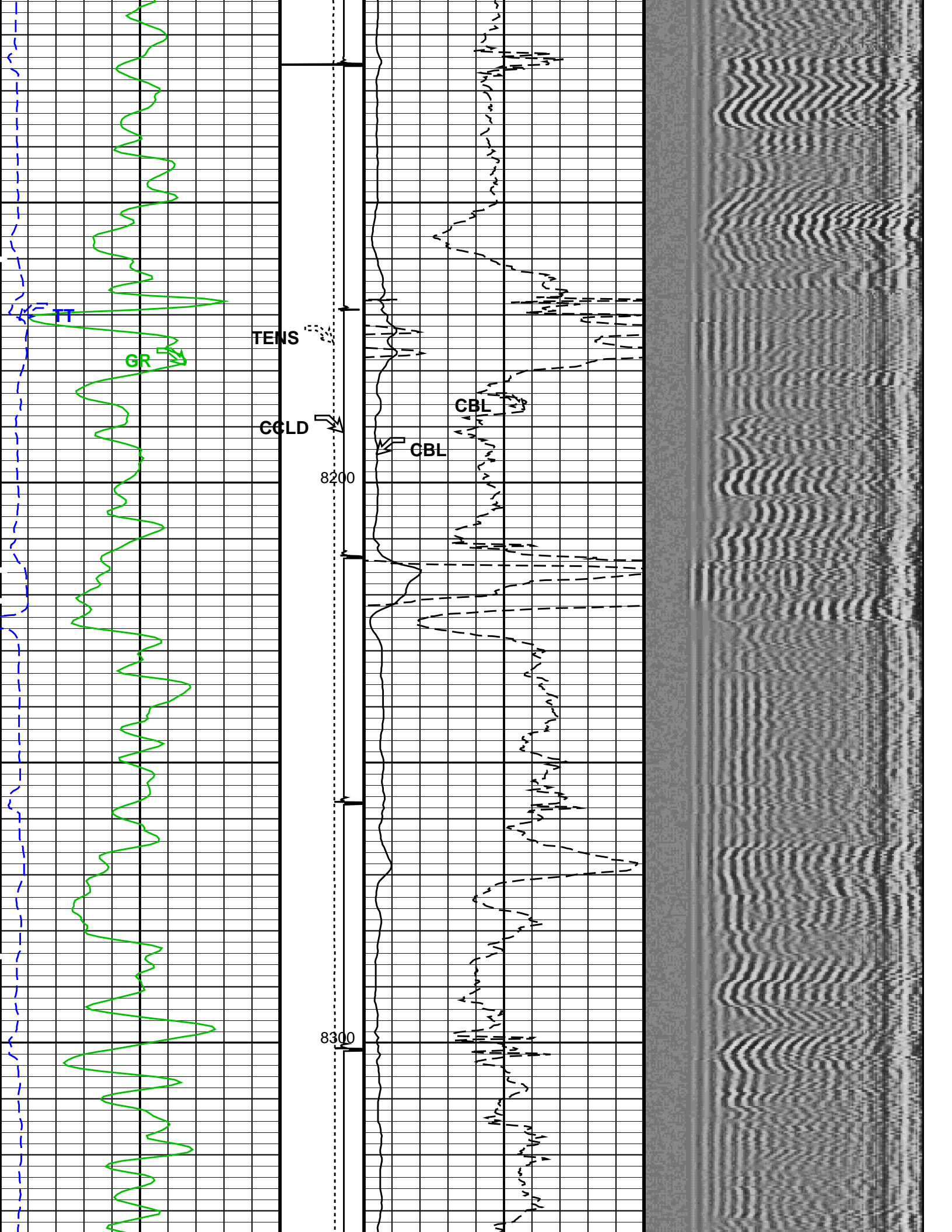


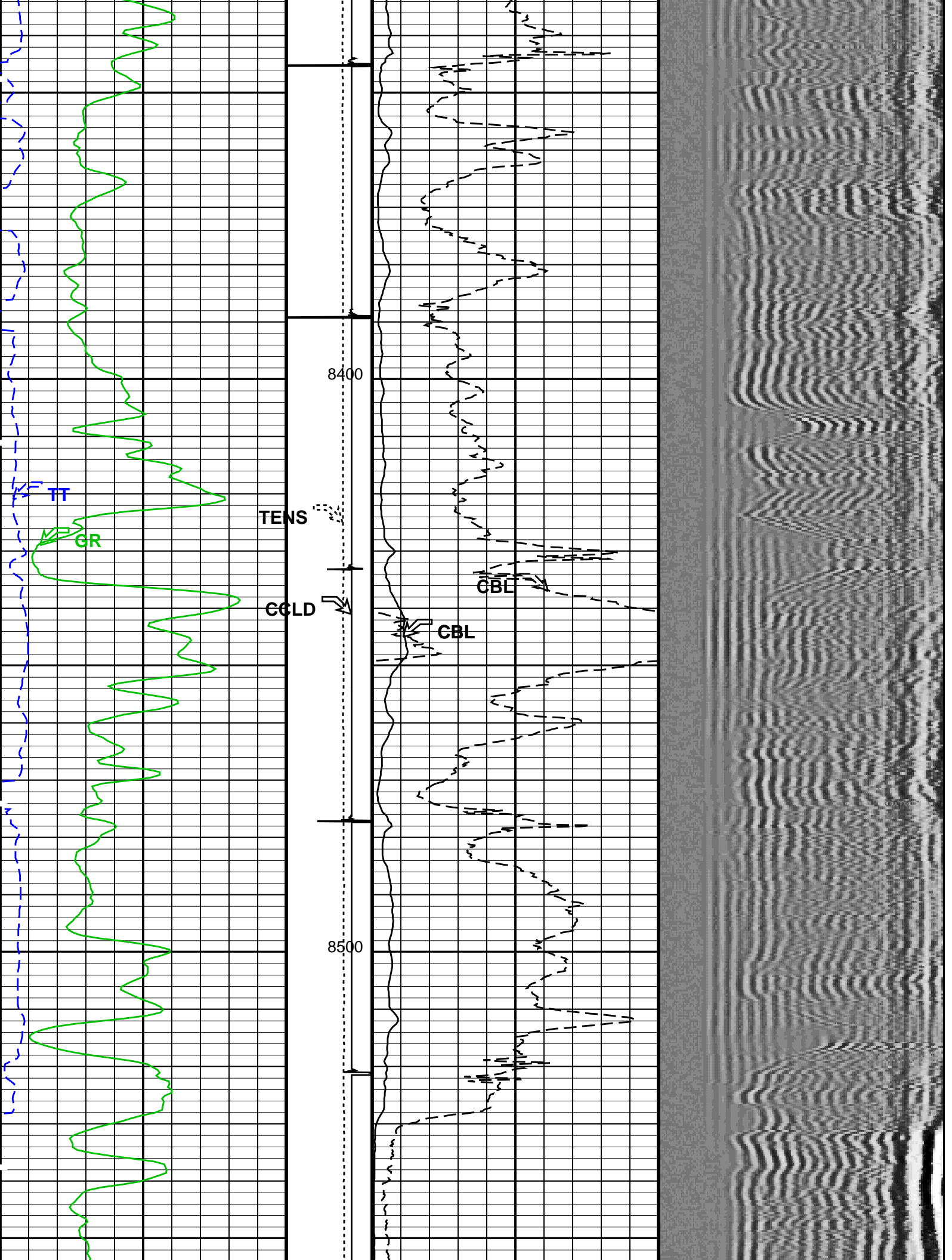


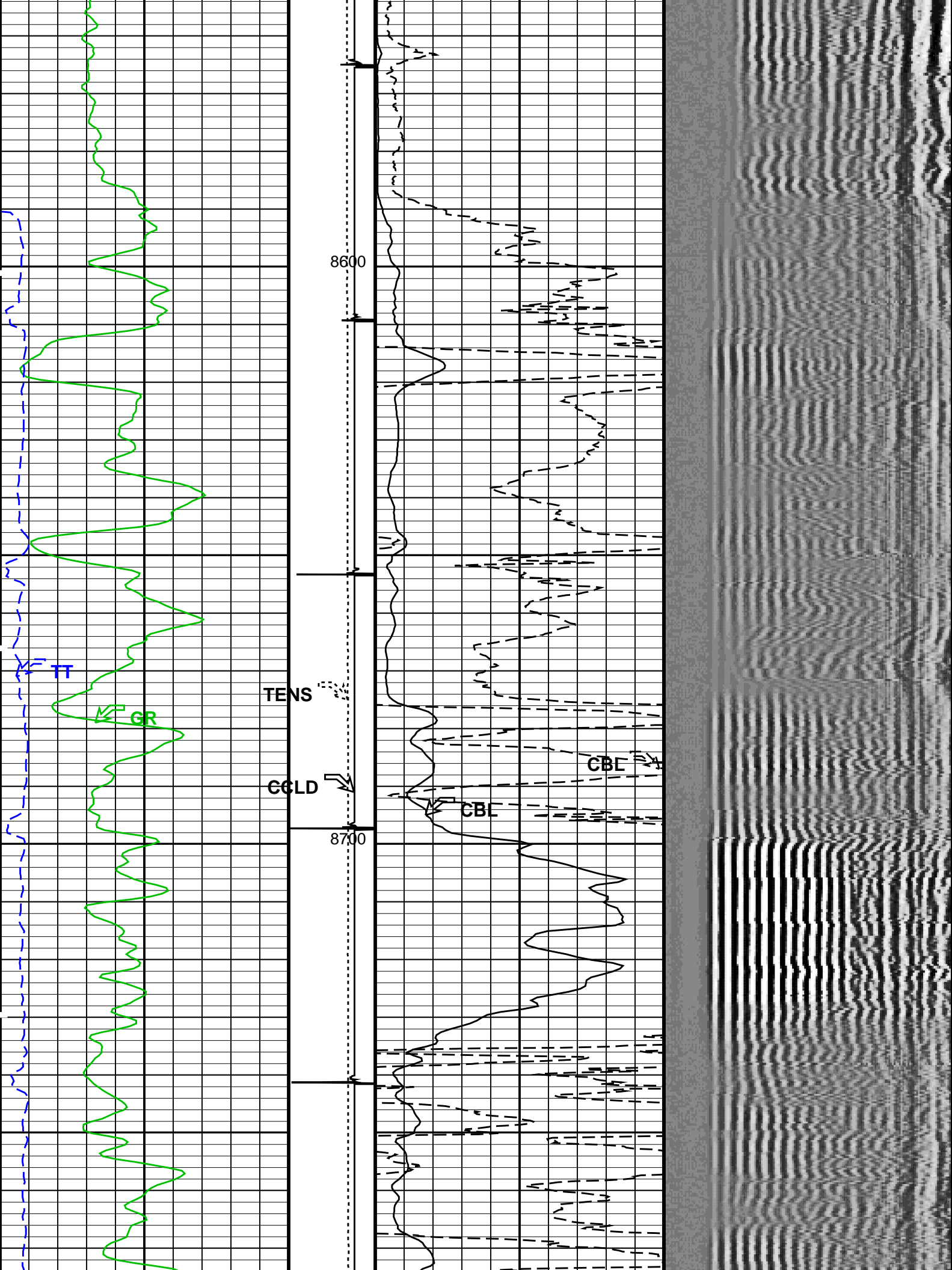


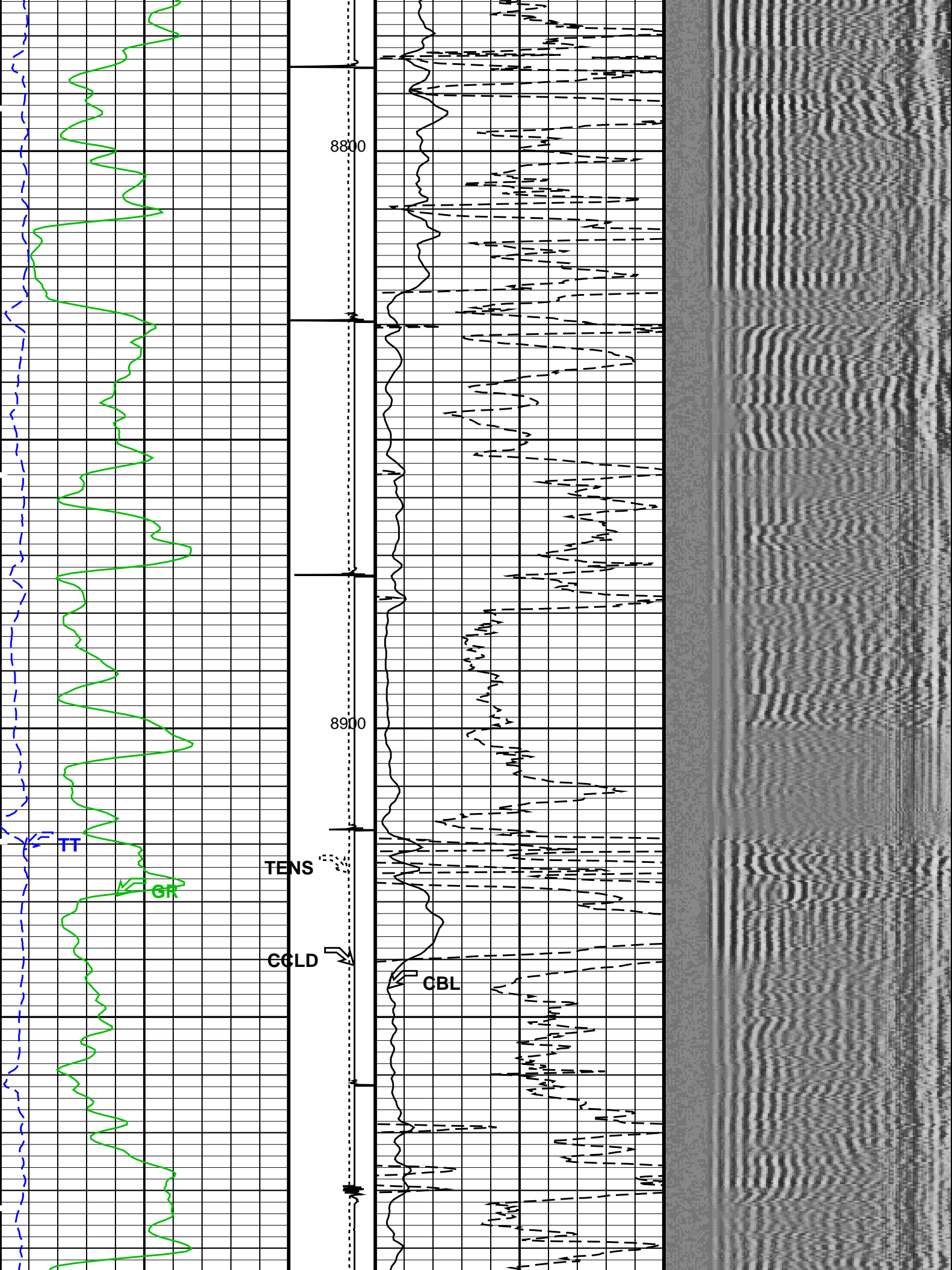


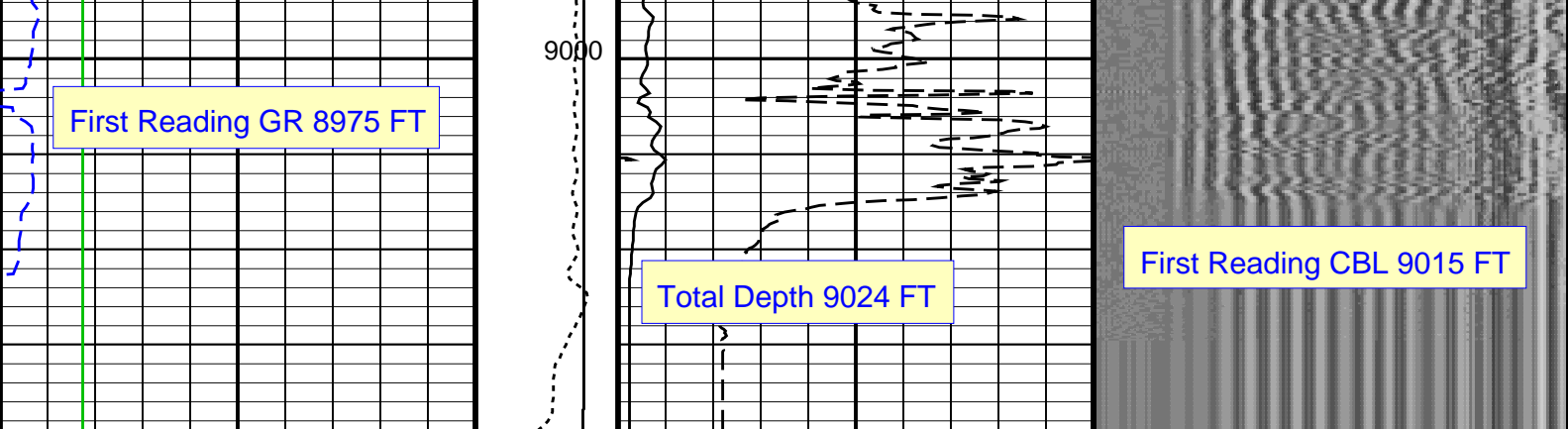












Gamma Ray (GR) (GAPI)		Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)		Min	Amplitude	Max
0	150	0 2000	0	100	200		1200
Transit Time (TT) (US)		Discriminat ed CCL (CCLD) (V)	CBL Amplitude (CBL) (MV)		VDL VariableDensity (VDL) (US)		
260	160	3 -1	0	10			

PIP SUMMARY

Time Mark Every 60 S
Format: CBL_VDL Vertical Scale: 5" per 100' Graphics File Created: 10-Feb-2013 23:28

OP System Version: 19C0-187

SCMT-CB SRPC-5214-H2-2012-OP1 RST-C SRPC-5214-H2-2012-OP1
PSPT SRPC-5214-H2-2012-OP1

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number		SCMS-CB 8179	
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		6-MAR-2012	
CBL Correction Factor		0.0704263	CBL Adjustment Factor (CBAF) 1.10000
MAP 1 Correction Factor		0.0993191	MAP Adjustment Factor (MPAF) 1.0
MAP 2 Correction Factor		0.0941329	
MAP 3 Correction Factor		0.101552	
MAP 4 Correction Factor		0.114415	
MAP 5 Correction Factor		0.127992	
MAP 6 Correction Factor		0.121190	
MAP 7 Correction Factor		0.112867	
MAP 8 Correction Factor		0.102913	

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

CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	338.559	US
CB5G	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CB5T	CBL Gate Width	45	US
CBLG	CBL LQC Reference Amplitude in Free Pipe	80	MV
CBRA	CBL Cement Type Compensation Factor	1	
CMCF	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	9024	FT

Input DLIS Files

DEFAULT	SCMT_RST_PSP_072LUP	FN:70	PRODUCER	10-Feb-2013 20:55	9035.0 FT	13.5 FT
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Output DLIS Files

DEFAULT	SCMT_RST_PSP_077PUP	FN:75	PRODUCER	10-Feb-2013 23:28		
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Schlumberger

REPEAT ANALYSIS CBL VDL

MAXIS Field Log

Company: ENCANAL OIL & GAS (USA) INC

Well: SHIDELER FEE 31-13C (031E)

Input DLIS Files

DEFAULT	SCMT_RST_PSP_070LUP	FN:68	PRODUCER	10-Feb-2013 20:38	7126.5 FT	6803.5 FT
DEFAULT	SCMT_RST_PSP_077PUP	FN:75	PRODUCER	10-Feb-2013 23:28	9039.0 FT	-27.0 FT

Output DLIS Files

DEFAULT	SCMT_RST_PSP_078PUP	FN:76	PRODUCER	10-Feb-2013 23:35	7127.5 FT	6760.0 FT
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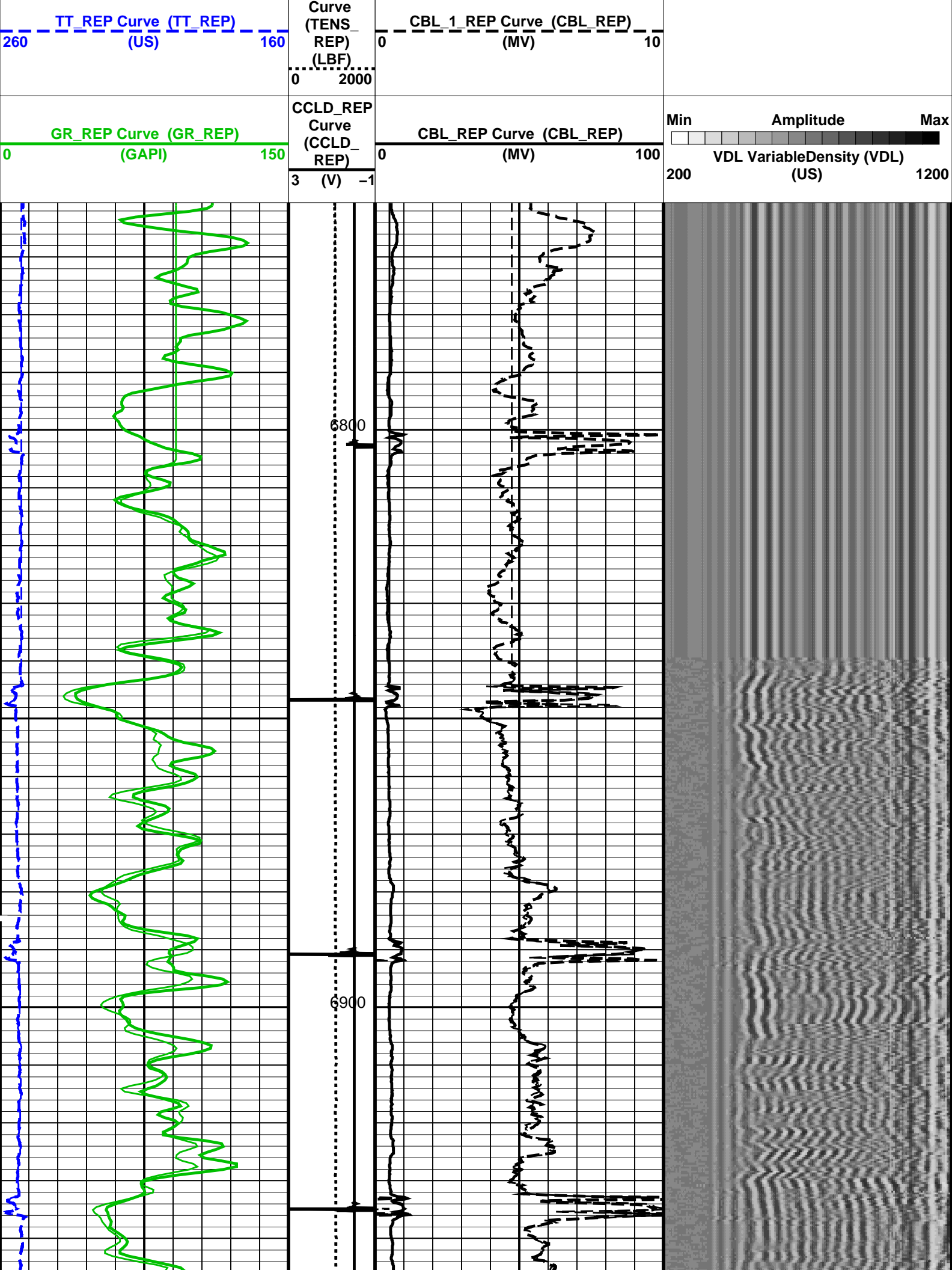
OP System Version: 19C0-187

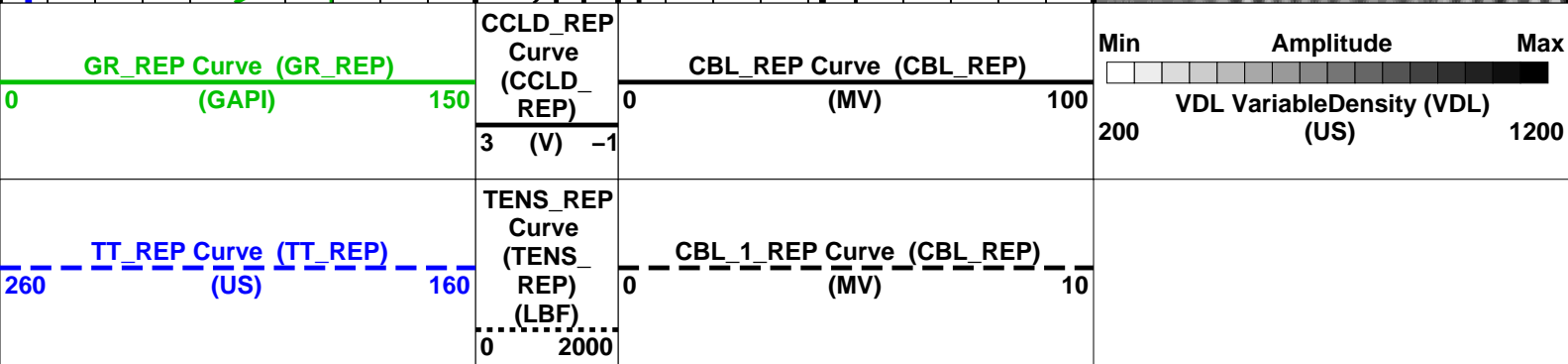
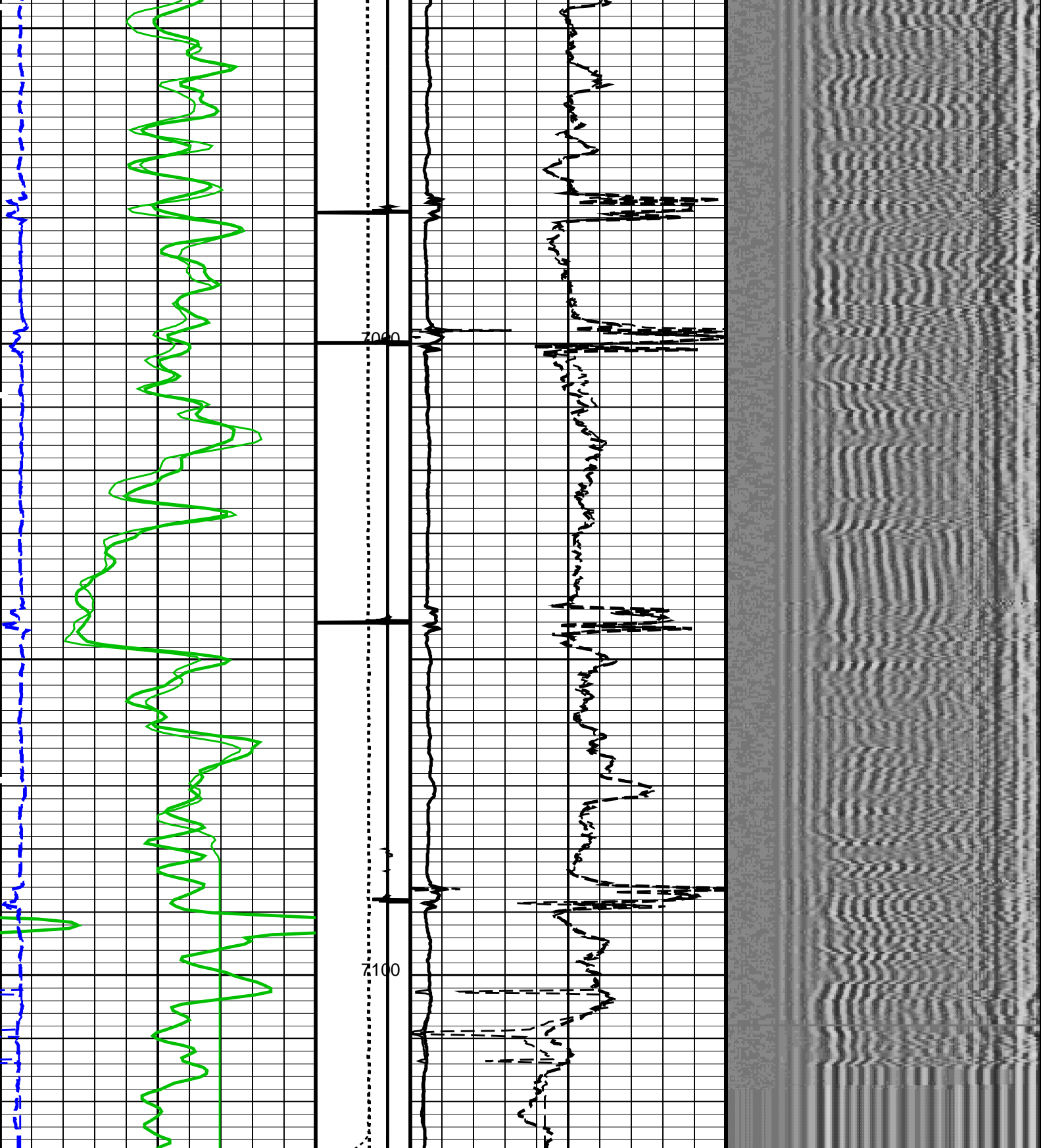
SCMT-CB	SRPC-5214-H2-2012-OP1:	RST-C	SRPC-5214-H2-2012-OP1:
PSPT	SRPC-5214-H2-2012-OP1:		

PIP SUMMARY

Time Mark Every 60 S

TENS_REP





OP System Version: 19C0-187

SCMT-CB SRPC-5214-H2-2012-OP1 RST-C SRPC-5214-H2-2012-OP1
 PSPT SRPC-5214-H2-2012-OP1

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8179		
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	6-MAR-2012		
CBL Correction Factor	0.0704263	CBL Adjustment Factor (CBAF)	1.10000
MAP 1 Correction Factor	0.0993191	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.0941329		
MAP 3 Correction Factor	0.101552		
MAP 4 Correction Factor	0.114415		
MAP 5 Correction Factor	0.127992		
MAP 6 Correction Factor	0.121190		
MAP 7 Correction Factor	0.112867		
MAP 8 Correction Factor	0.102913		

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	45	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTTC	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	1.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	9024	FT

Input DLIS Files

DEFAULT	SCMT_RST_PSP_070LUP	FN:68	PRODUCER	10-Feb-2013 20:38	7126.5 FT	6803.5 FT
DEFAULT	SCMT_RST_PSP_077PUP	FN:75	PRODUCER	10-Feb-2013 23:28	9039.0 FT	-27.0 FT

Output DLIS Files

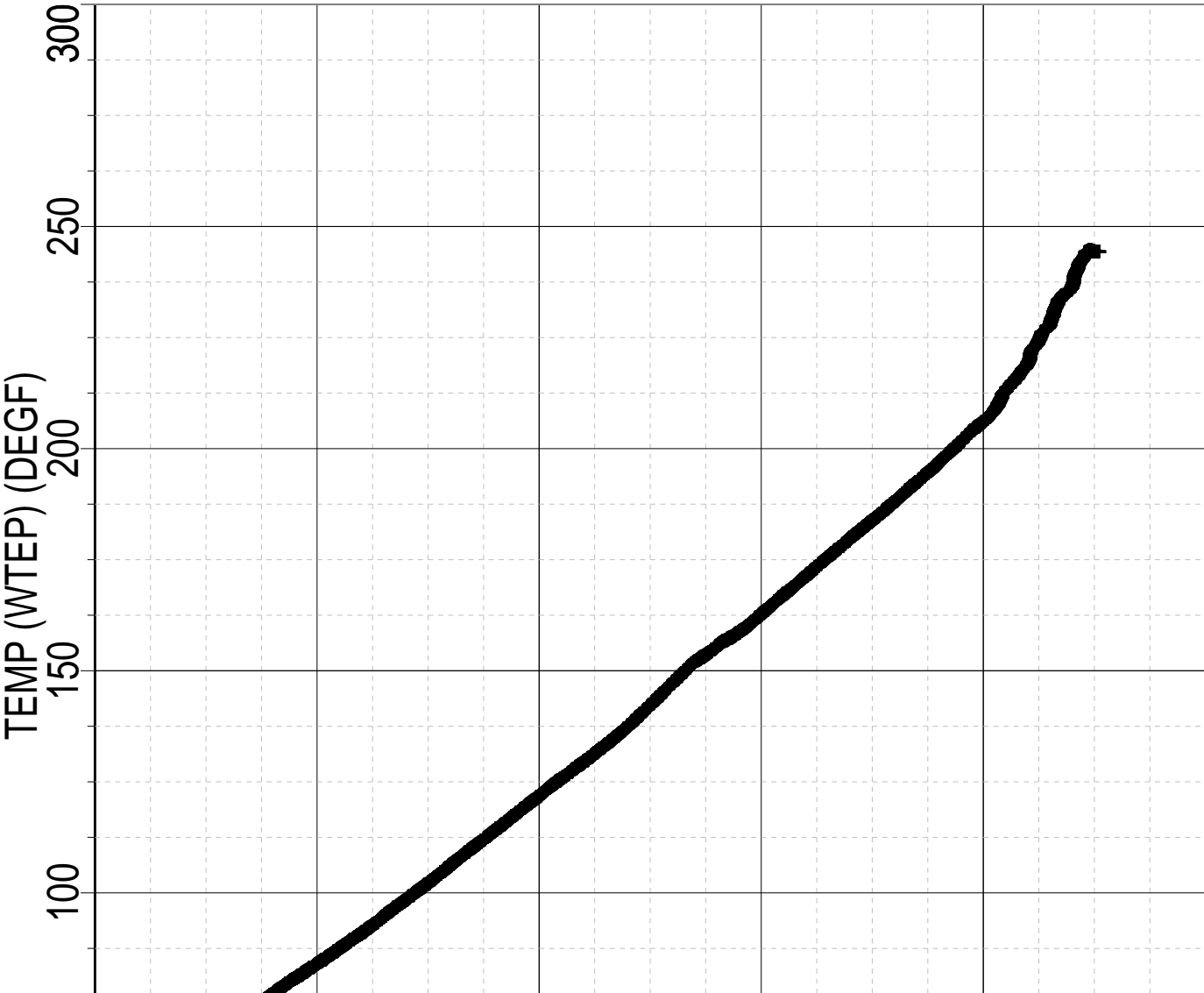
DEFAULT	SCMT_RST_PSP_078PUP	FN:76	PRODUCER	10-Feb-2013 23:35
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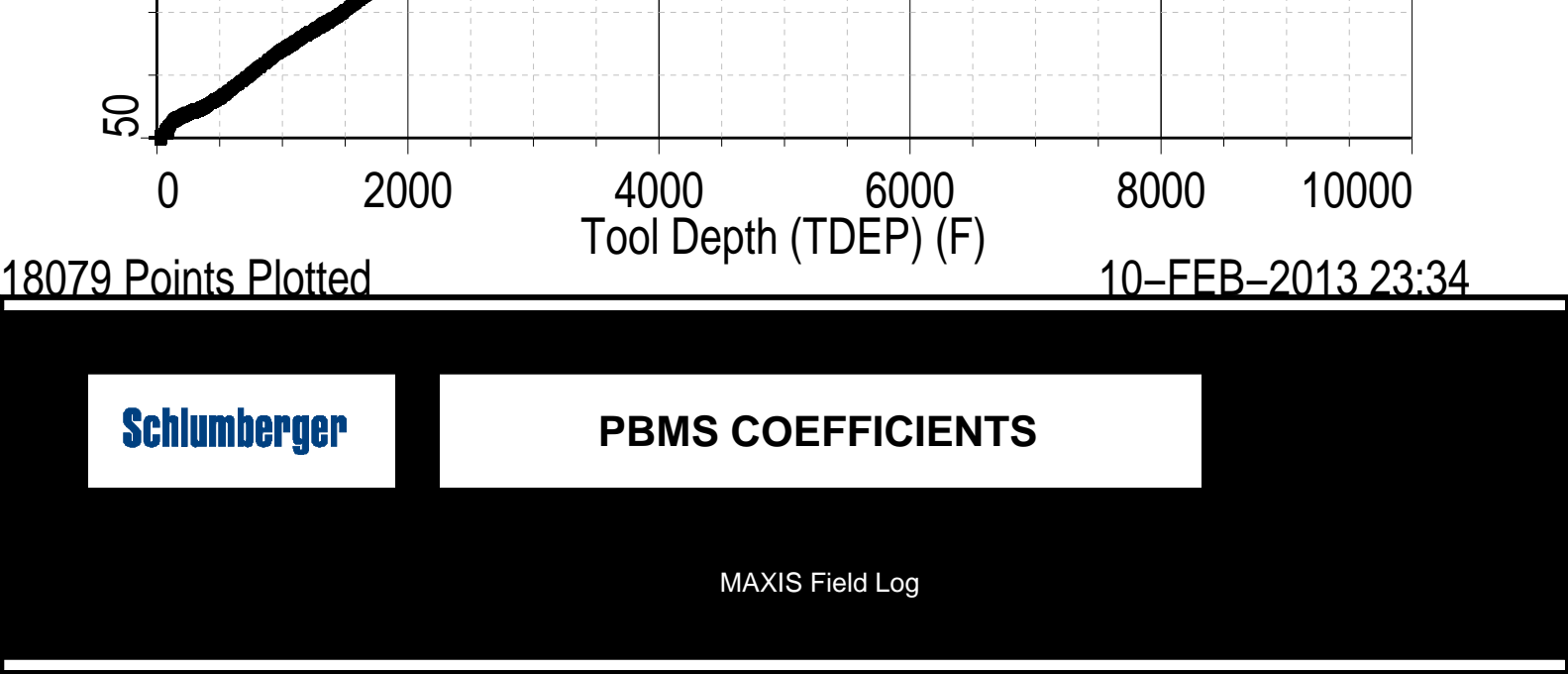


TEMPERATURE PLOT

MAXIS Field Log

Index: 9039.0 – -27.0 FT





Client: ENCANA OIL & GAS (USA) INC Tool: PSP
Field: MAMM CREEK Sub Type: PBMS
Well: SHIDELER FEE 31-13C (031E) Sensor: Clock Model
Run date: 10-Feb-2013

PBMS Digitalization Clock

Sonde Serial NB
Sensor Serial NB 1772
Calib Date ddmmyy 250102
Matrix Size 16
Coeff CRC 279D

Clock Coeff

	Temp**0	Temp**1	Temp**2
Temp**0	-.161517143435E+03	-.455833634022E+01	-.104938566503E+00
	Temp**3	Temp**4	Temp**5
Temp**0	+.665806803953E-03	+.215816423936E-05	0.0

Client: ENCANA OIL & GAS (USA) INC Tool: PSP
Field: MAMM CREEK Sub Type: PBMS
Well: SHIDELER FEE 31-13C (031E) Sensor: Sapphire

PBMS Sapphire 10kPsi Gauge

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

COEFFICIENTS FOR SAPPHIRE PBMS-A.1772 S/N:
1772
250102
66
7015

Pres Coeff

	Tt**0	Tt**1	Tt**2
Tp**0	−.301728254764E+05	+.213698779657E+05	−.667784145806E+04
Tp**1	+.222783691269E+05	−.154949942910E+05	+.506915258152E+04
Tp**2	−.219998557234E+03	+.903672682639E+02	−.973284421881E+01
Tp**3	+.373083861809E+01	−.914930924512E+00	0.0
Tp**4	0.0	0.0	0.0
Tp**5	0.0	0.0	0.0

	Tt**3	Tt**4	Tt**5
Tp**0	+.999867705458E+03	−.587093588268E+02	0.0
Tp**1	−.790152285056E+03	+.481404114544E+02	0.0
Tp**2	0.0	0.0	0.0
Tp**3	0.0	0.0	0.0
Tp**4	0.0	0.0	0.0
Tp**5	0.0	0.0	0.0

PBMS Sapphire 10kPsi Gauge

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

:
1772
250102
66
8D09

Temp Coeff



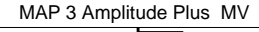
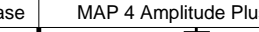
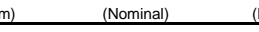
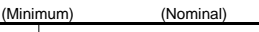
	Tp**0	Tp**1	Tp**2
Tt**0	+.232726172867E+04	+.748146006300E+01	−.308596169368E+01
Tt**1	−.145543937674E+04	−.382344629538E+01	+.886665691754E+00
Tt**2	+.319573055861E+03	+.722043926946E+00	−.543588515298E−01
Tt**3	−.247026874426E+02	−.512988254724E−01	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0






	Tp**3	Tp**4	Tp**5
Tt**0	+711608702827E+00	−.763411838100E−01	0.0
Tt**1	−.147911019947E+00	+159378916834E−01	0.0
Tt**2	0.0	0.0	0.0
Tt**3	0.0	0.0	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0

Client:	ENCANA OIL & GAS (USA) INC	Tool:	PSP
Field:	MAMM CREEK	Sub Type:	PBMS
Well:	SHIDELER FEE 31−13C (031E)	Sensor:	GR
Run date:	10−Feb−2013		

PBMS Gamma Ray	
Sonde Serial NB	RESISTORS FOR GR SENSOR N.33401,TOOL PBMS−AA1772. SENSOR S/N:
Sensor Serial NB	33401
Calib Date ddmmyy	021101
Matrix Size	12
Coeff CRC	1F7D
GR HV Rt	
	Rt**0Rt**1
Rt**0	+1500000000000e+04+2360000000000e+04

Client:	ENCANA OIL & GAS (USA) INC	Tool:	PSP
Field:	MAMM CREEK	Sub Type:	PBMS
Well:	SHIDELER FEE 31−13C (031E)	Sensor:	WellTemp RTD
Run date:	10−Feb−2013		

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			1158	Master			1232
	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			1237	Master			1118
	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			1094	Master			1000
	500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)		500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)

Master		1061	Master		1299
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		1258	Master		1267
500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)	500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)
Phase	CBL Amplitude Plus MV	Value			
Master		1351			
1000 (Minimum)	1350 (Nominal)	1700 (Maximum)			
Master: 2-Jan-2013 15:55					

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

Schlumberger

Well: **SHIDELER FEE 31-13C (031E)**

Field: **MAMM CREEK**

County: **GARFIELD**

State: **COLORADO**

SLIM CEMENT MAPPING LOG

CBL-VDL

GR-CCL