

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8515D-25 (D36 496)

Field: GRAND VALLEY

County: GARFIELD

State: COLORADO

SLIM CEMENT MAPPING LOG			
CBL-VDL			
GR-CCL			
SHL; 1097 FWL & 289 FNL BHL; 528 FSL & 1994 FEL		Elev.: K.B. 8320.00 ft G.L. 8290.00 ft D.F. 8319.00 ft	
Permanent Datum: _____		GROUND LEVEL _____	
Log Measured From: _____		KELLY BUSHING _____	
Drilling Measured From: _____		KELLY BUSHING _____	
API Serial No. _____		Section 36	Township 4S
05-045-20934-0C		Range 96W	

	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 Date	29-Nov-2012		
Run Number	1		
Depth Driller	12520 ft		
Schlumberger Depth	12228 ft		
Bottom Log Interval	12219 ft		
Top Log Interval	73 ft		
Casing Fluid Type	FRESH WATER		
Salinity			
Density	8.4 lbm/gal		
Fluid Level	73 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.750 in		
From	30 ft		
To	12520 ft		
Casing/Tubing Size	4.500 in		
Weight	11.6 lbm/ft		
Grade	P-110		
From	30 ft		
To	12500 ft		
Maximum Recorded Temperatures	277 degF		
Logger On Bottom	29-Nov-2012	Time 9:30	
Unit Number	391	Location GRAND JUNCTION	
Recorded By	WILLIAM FLOYD		
Witnessed By	RYAN TOMPKINS		

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

DEPTH SUMMARY LISTING

Date Created: 24-NOV-2012 13:54:36

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-25ZT
Serial Number:	6214	Serial Number:	5006	Serial Number:	112136
Calibration Date:	24-APR-2012	Calibration Date:	24-OCT-201	Length:	19700 FT
Calibrator Serial Number:		Calibrator Serial Number:	174878	Conveyance Method:	Wireline
Calibration Cable Type:	1-25P	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-3	Calibration RMS:	4		
Wheel Correction 2:	-4	Calibration Peak Error:	10		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	200.00 FT
Rig Up Length At Bottom:	200.00 FT
Rig Up Length Correction:	0.00 FT
Stretch Correction:	
Tool Zero Check At Surface:	

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES USED
2. PRIMARY DEPTH CONTROL: IDW
3. SECONDARY DEPTH CONTROL: Z-CHART/DRUM COUNTER (SWPT
- 4.
- 5.
- 6.

DISCLAIMER

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

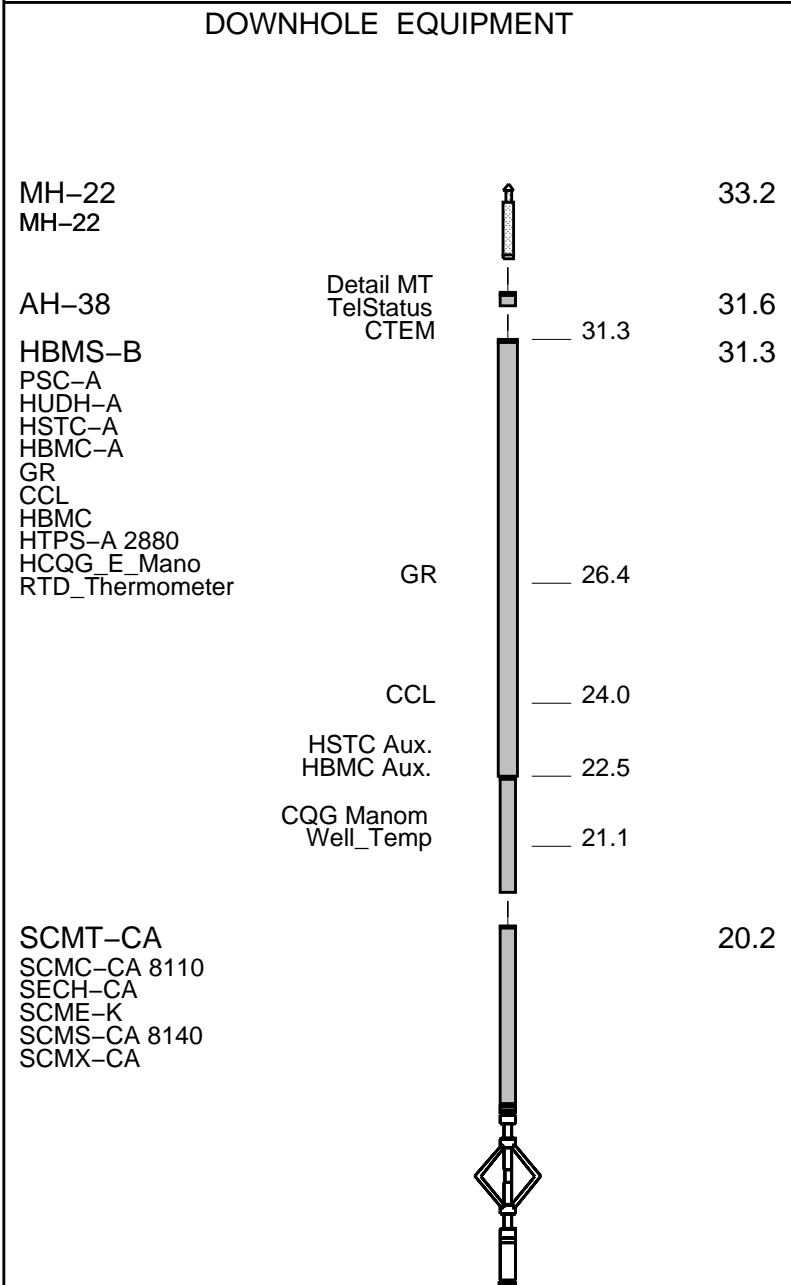
OTHER SERVICES1 OS1: NONE OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FIRST RUN IN HOLE CORRELATED TO DOWN LOG	
TOOL RAN AS PER TOOL SKETCH	
MAX RECORDED TEMP- 277DEG F	
MAX RECORDED PRESSURE= 5022 PSIA	
SHORT JOINTS= 7990' / 11000'	

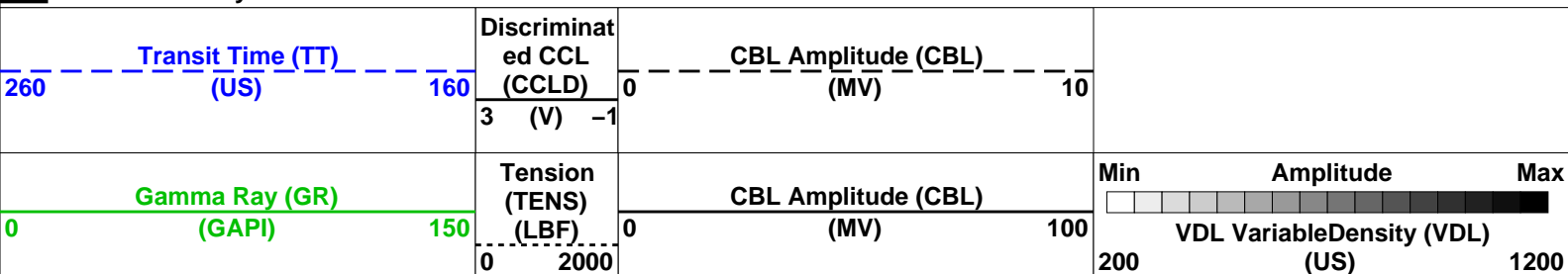
ENTRANCE TIME= 8:30	
LOGGER ON BOTTOM= 9:30	
EXIT TIME= 13:00	
MAIN PASS LOGGED WITH ZERO SURFACE PRESSURE	
CYCLE SKIPPING DUE TO GOOD BOND	
EXPECTED CBL AMPLITUDE OF FREE PIPE 80MV	
THANK YOU FOR CHOOSING E&P WIRELINE SERVICES	
YOUR CREW, K. BUNTING, W. FLOYD, J BARRY, W AZIZ, K JOHNS, C ARNOLD	

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

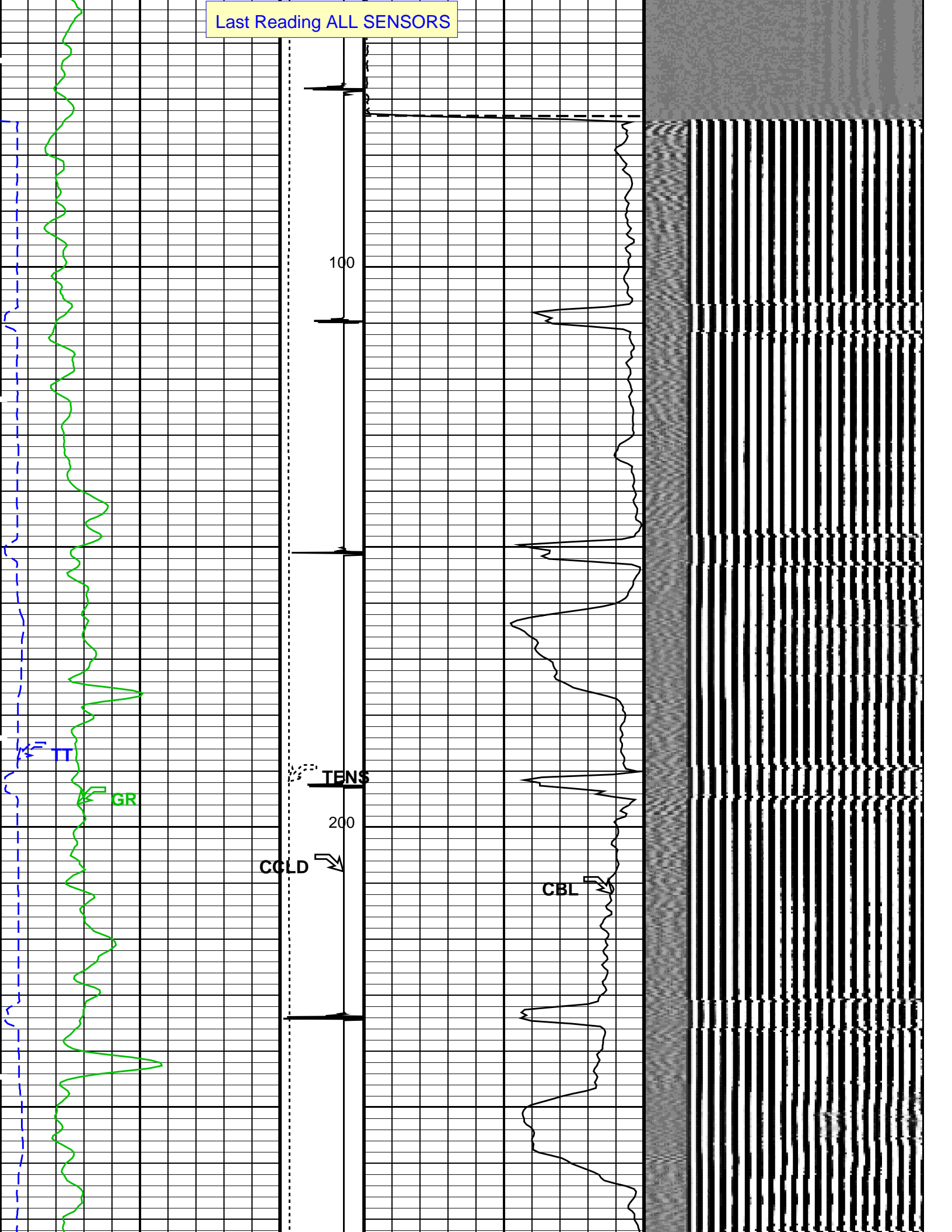
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

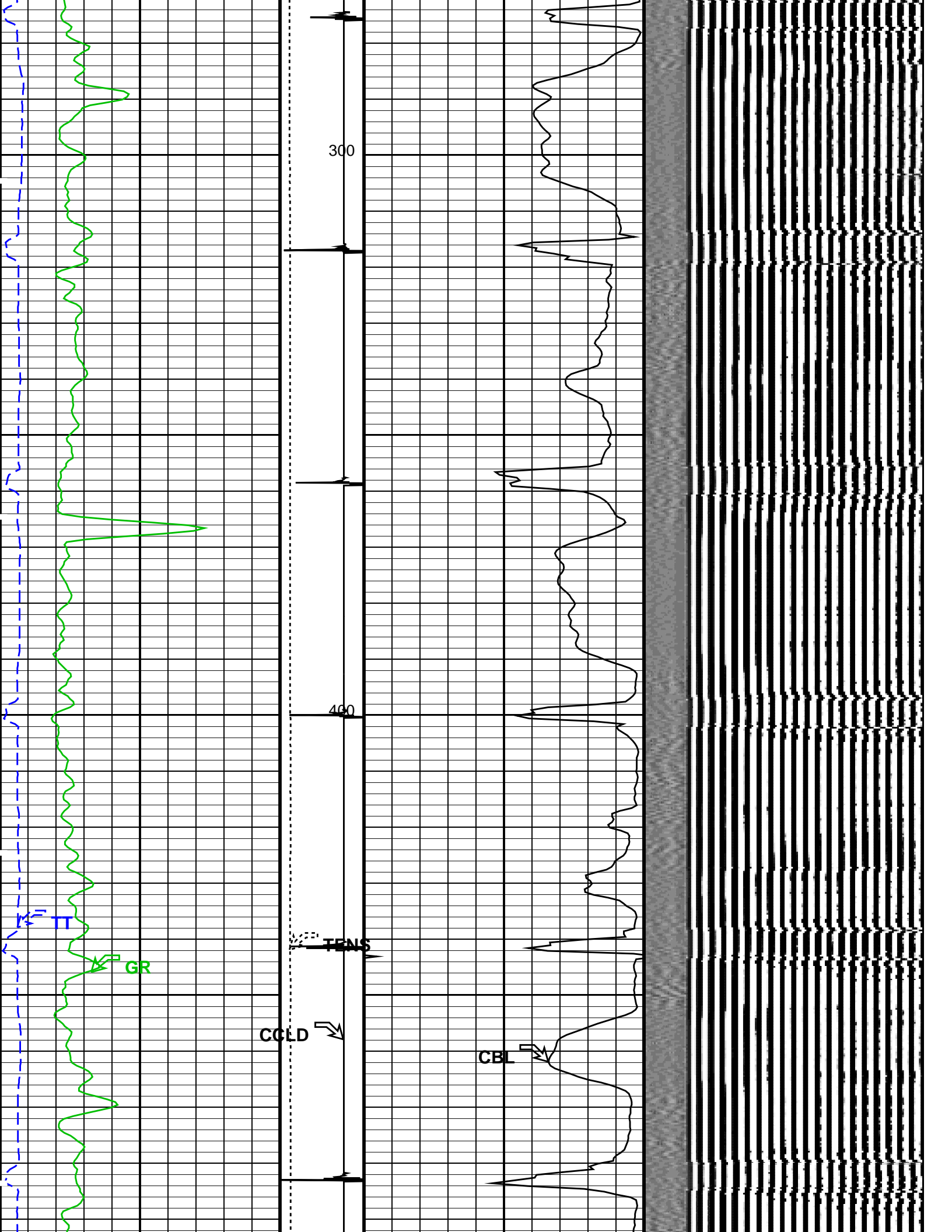
SURFACE EQUIPMENT
 WITM-A
 PSC_16MHZ

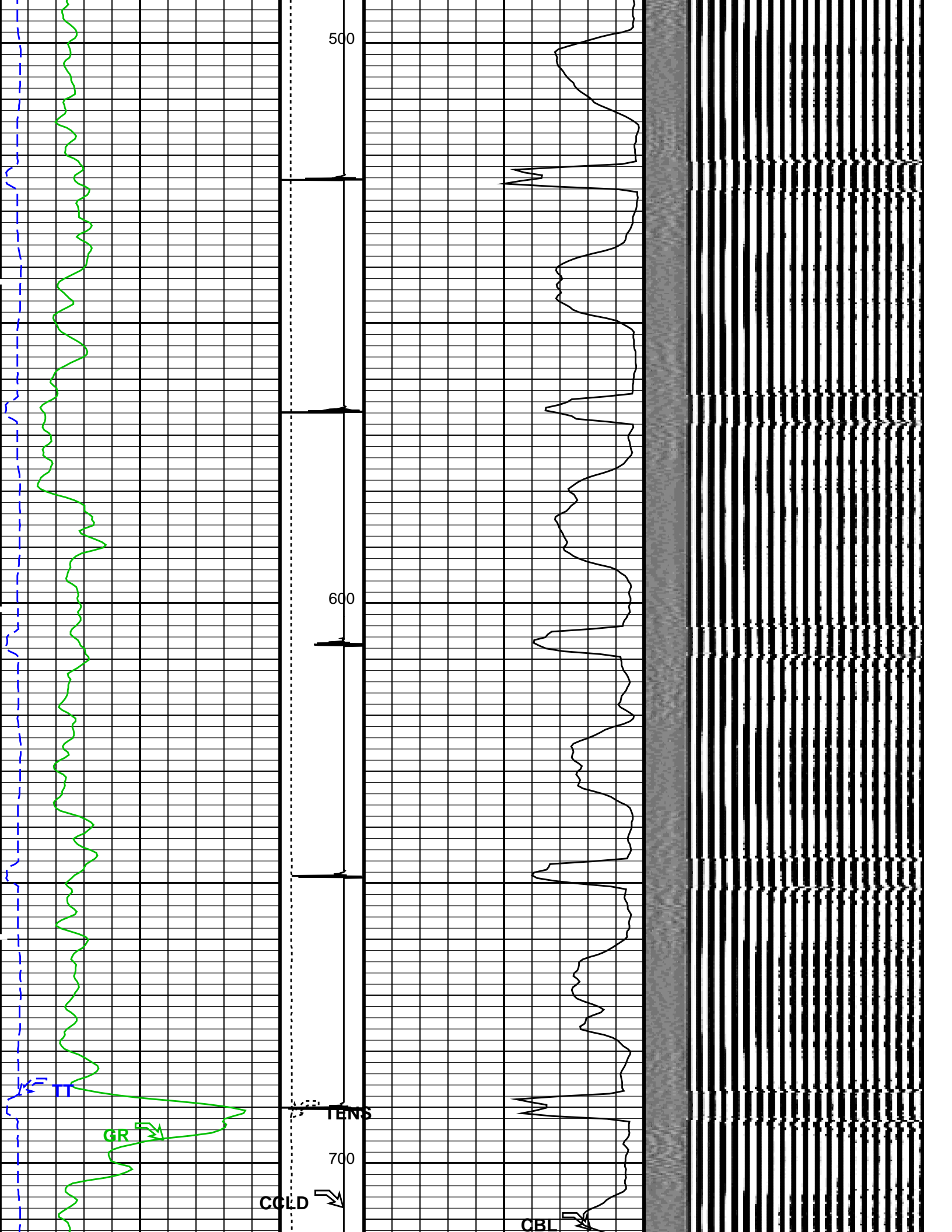


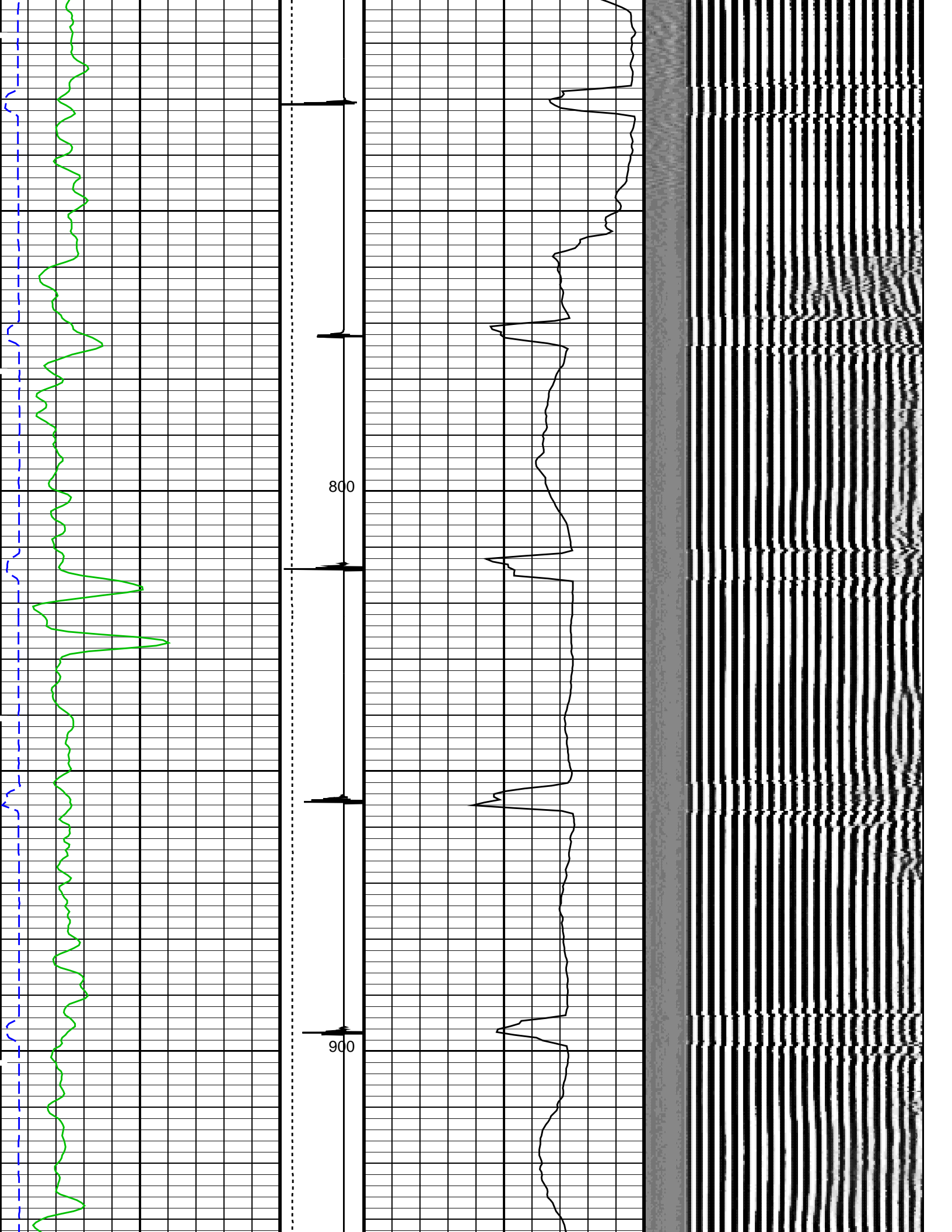


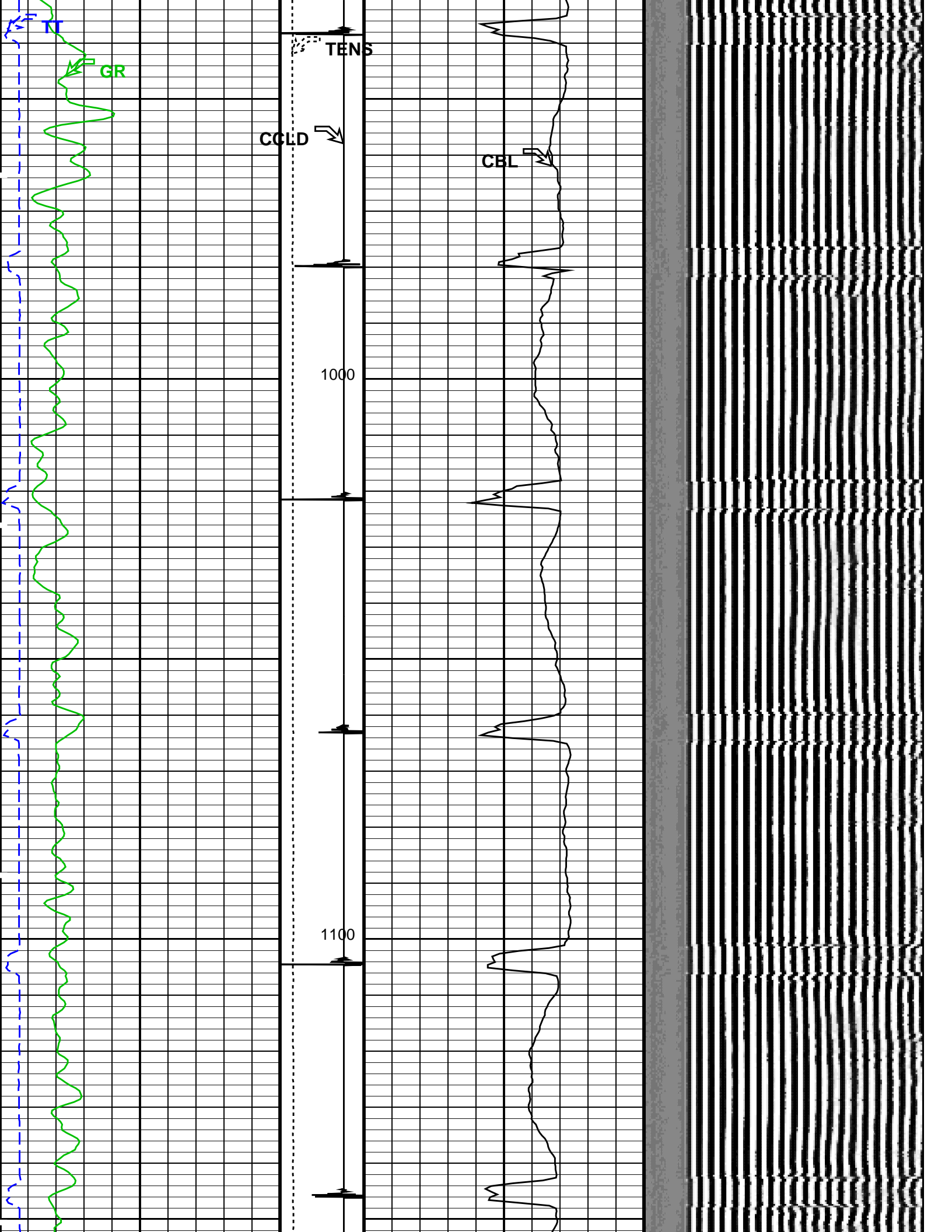
Last Reading ALL SENSORS

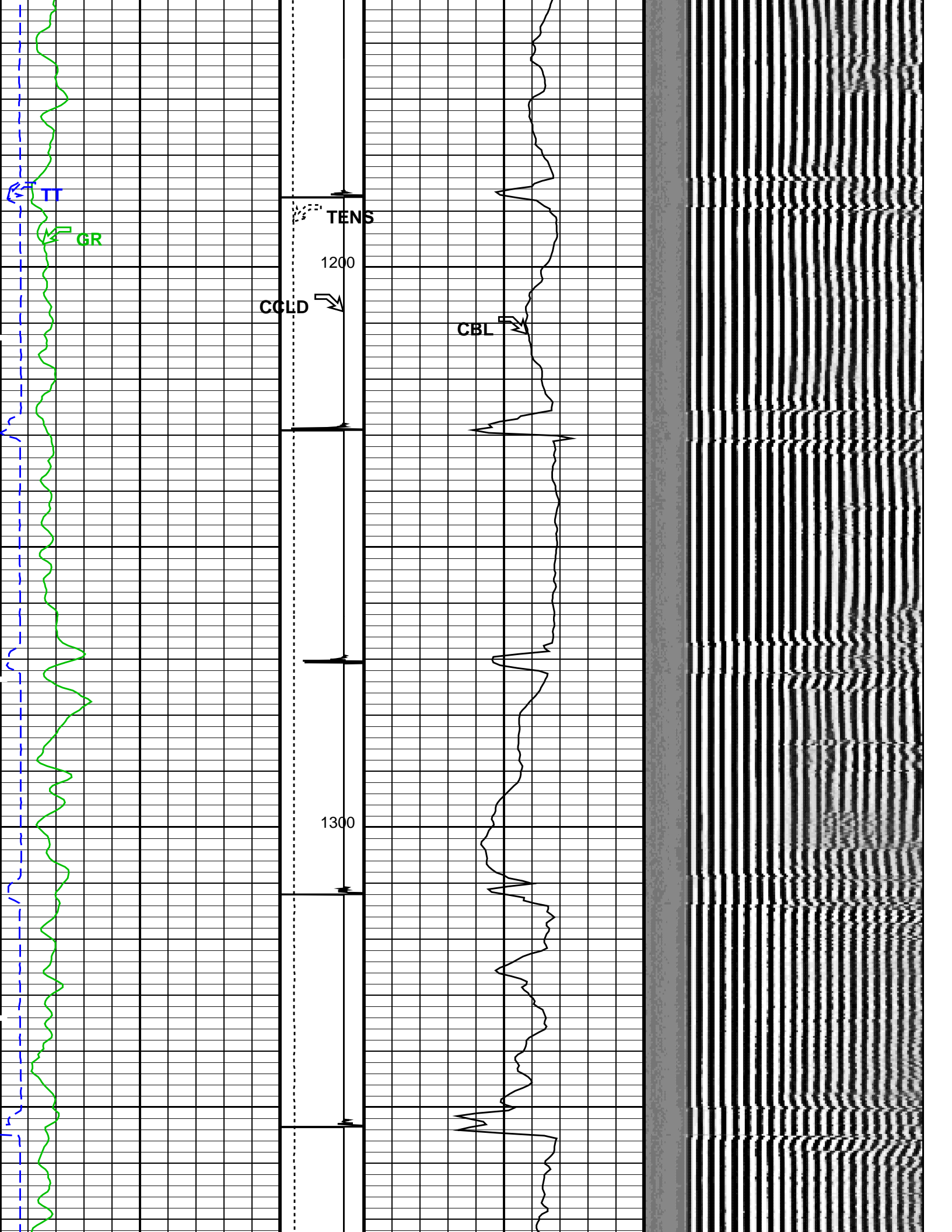


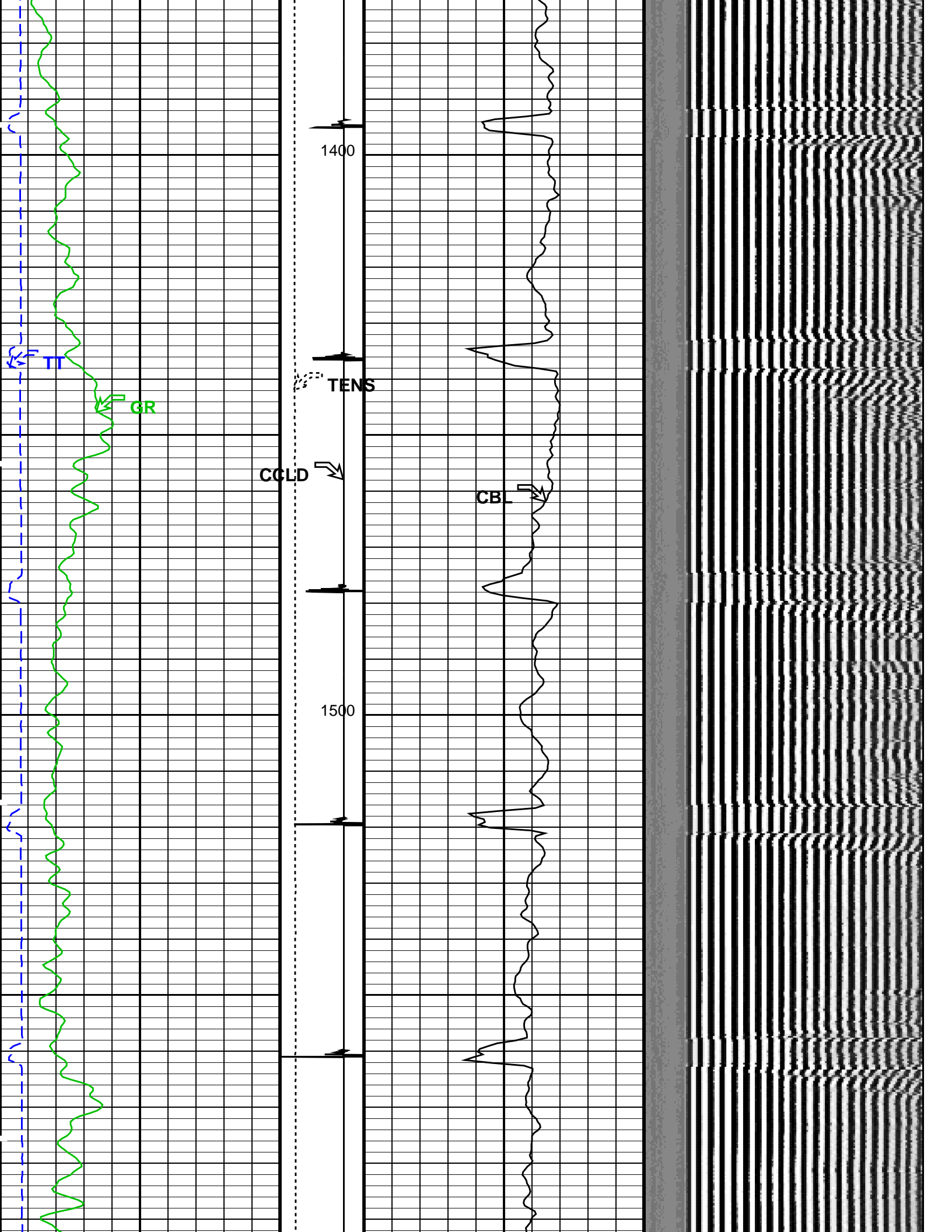


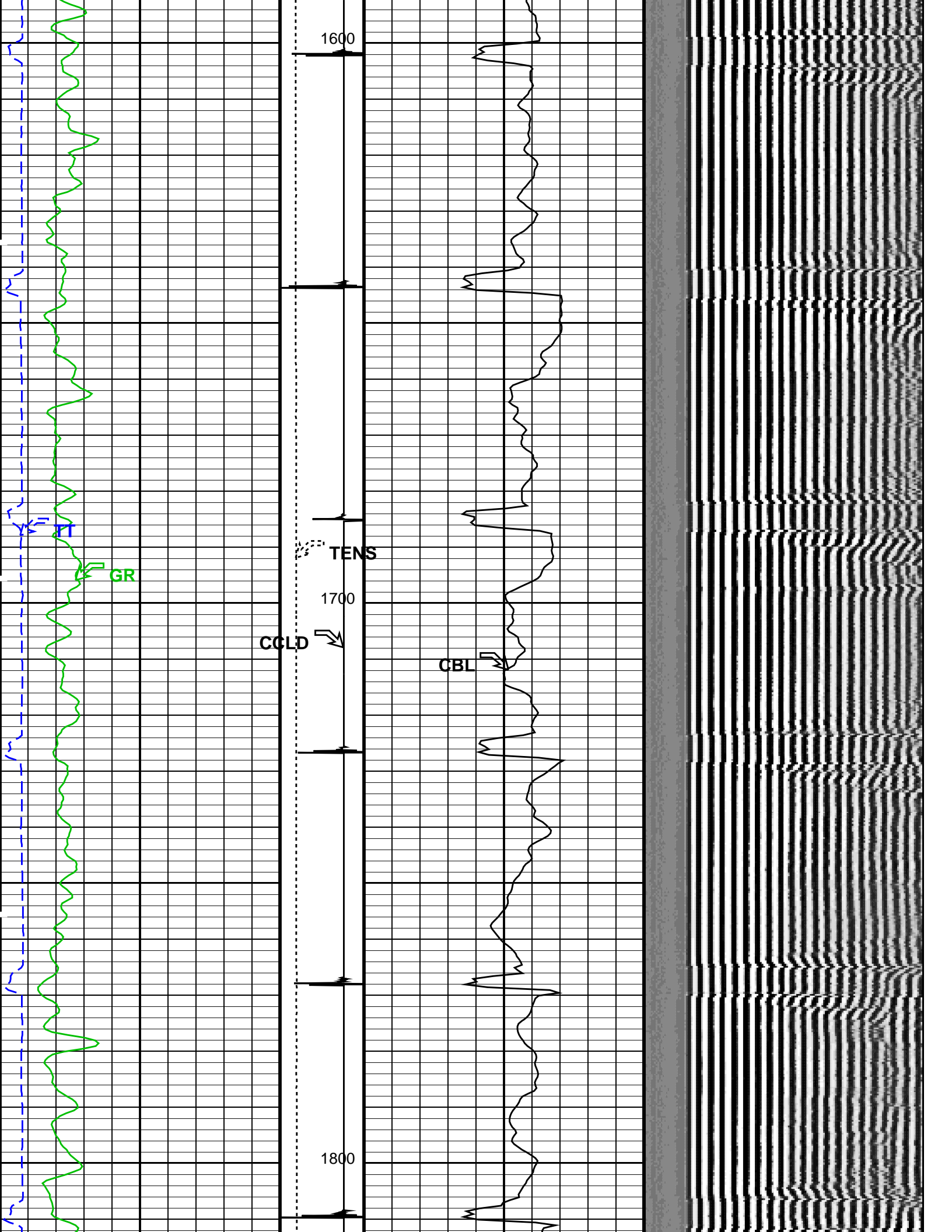


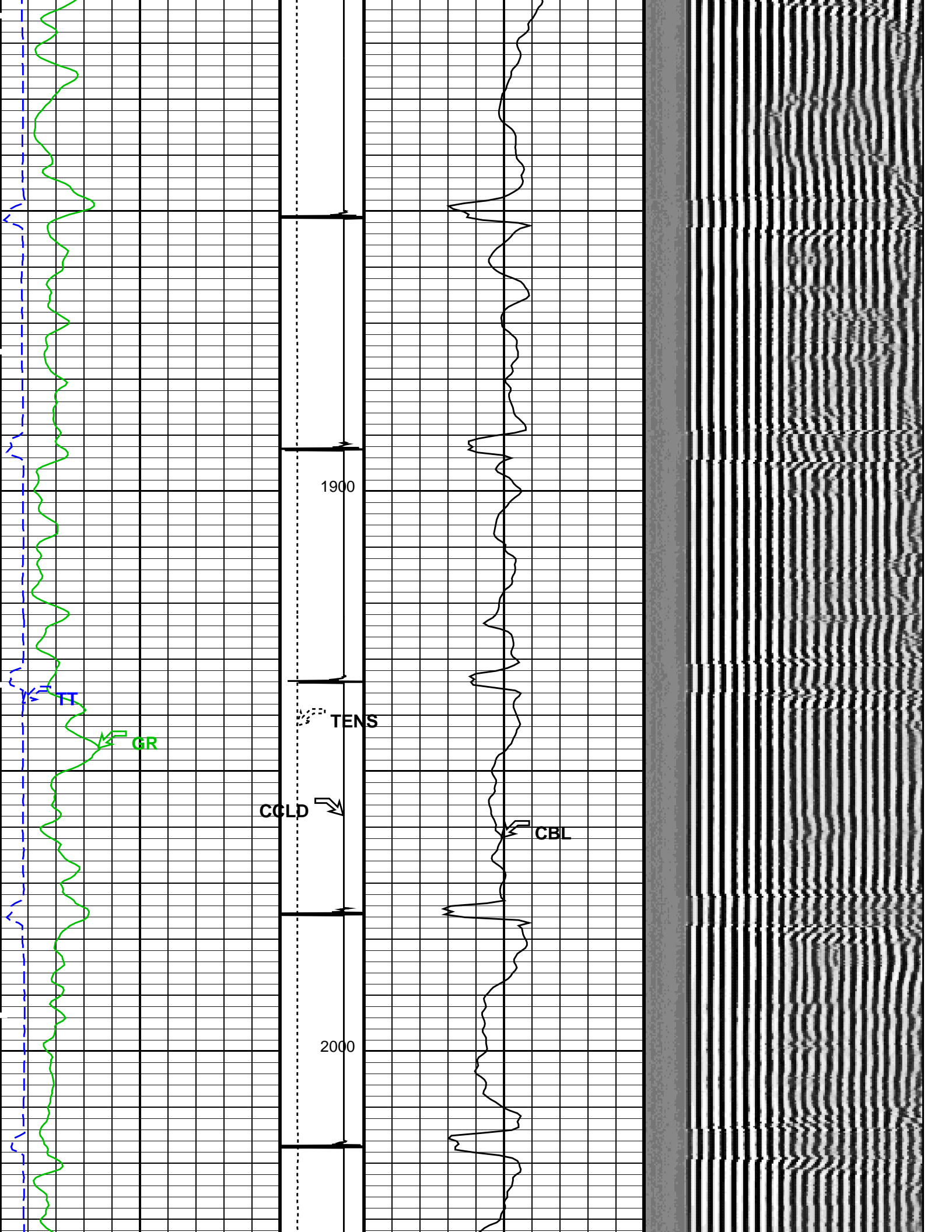


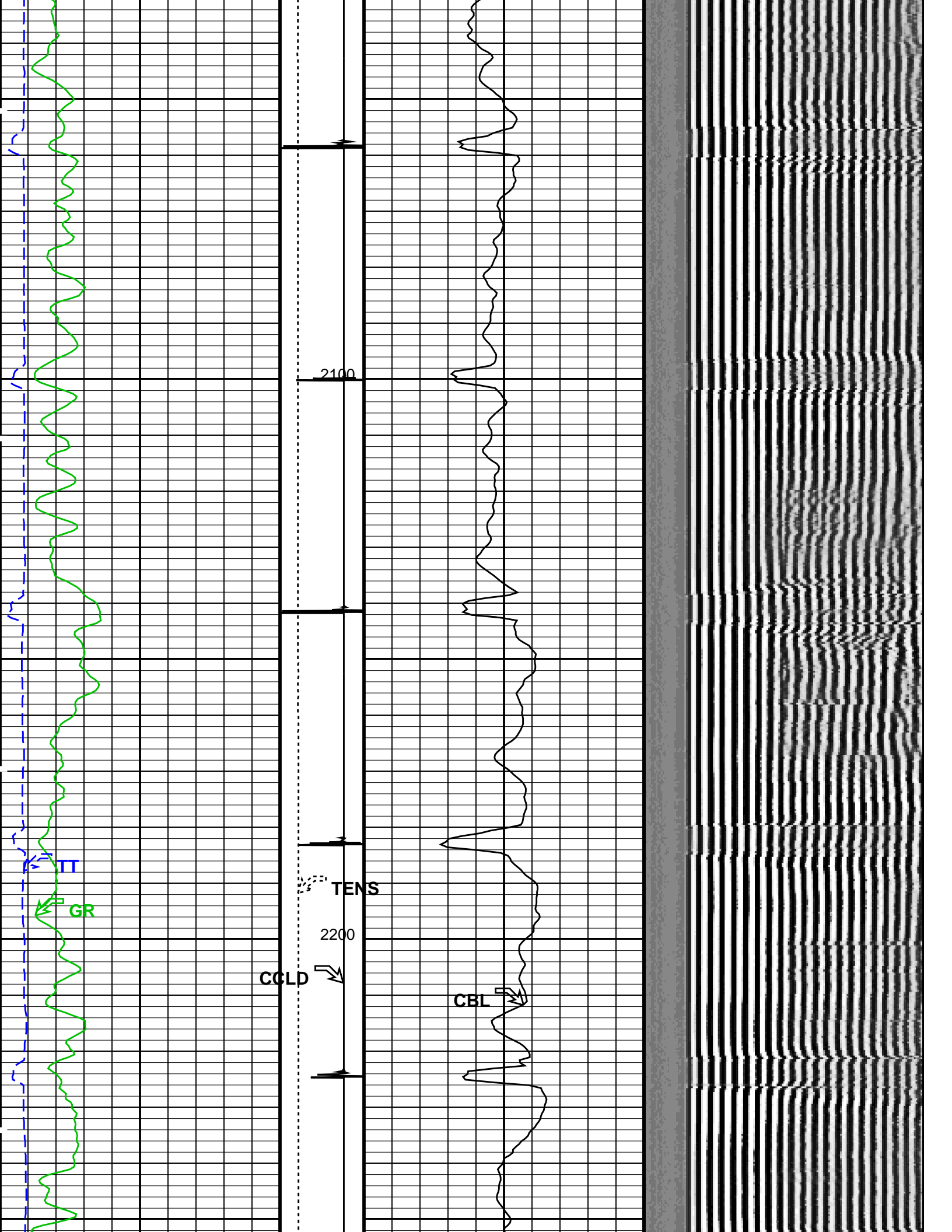


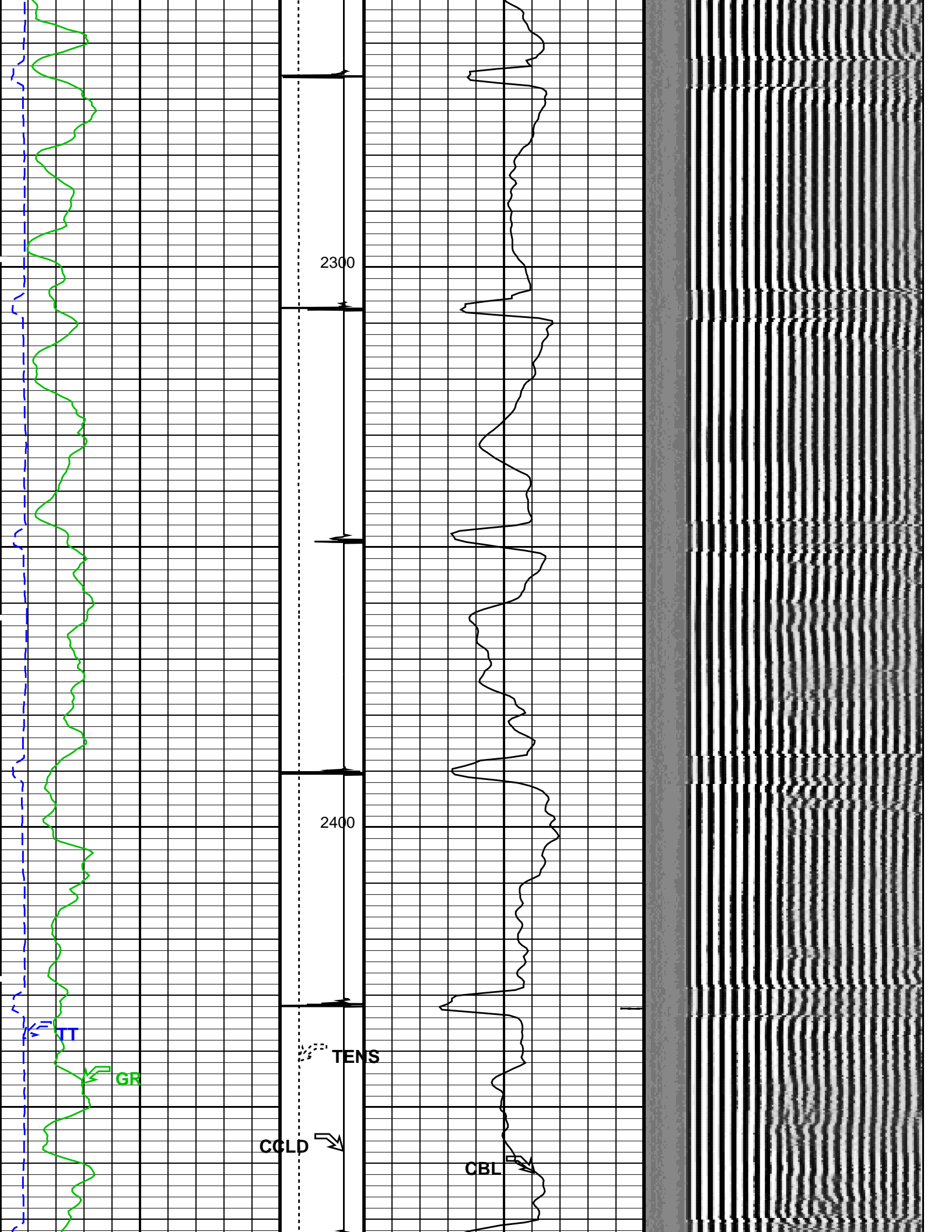


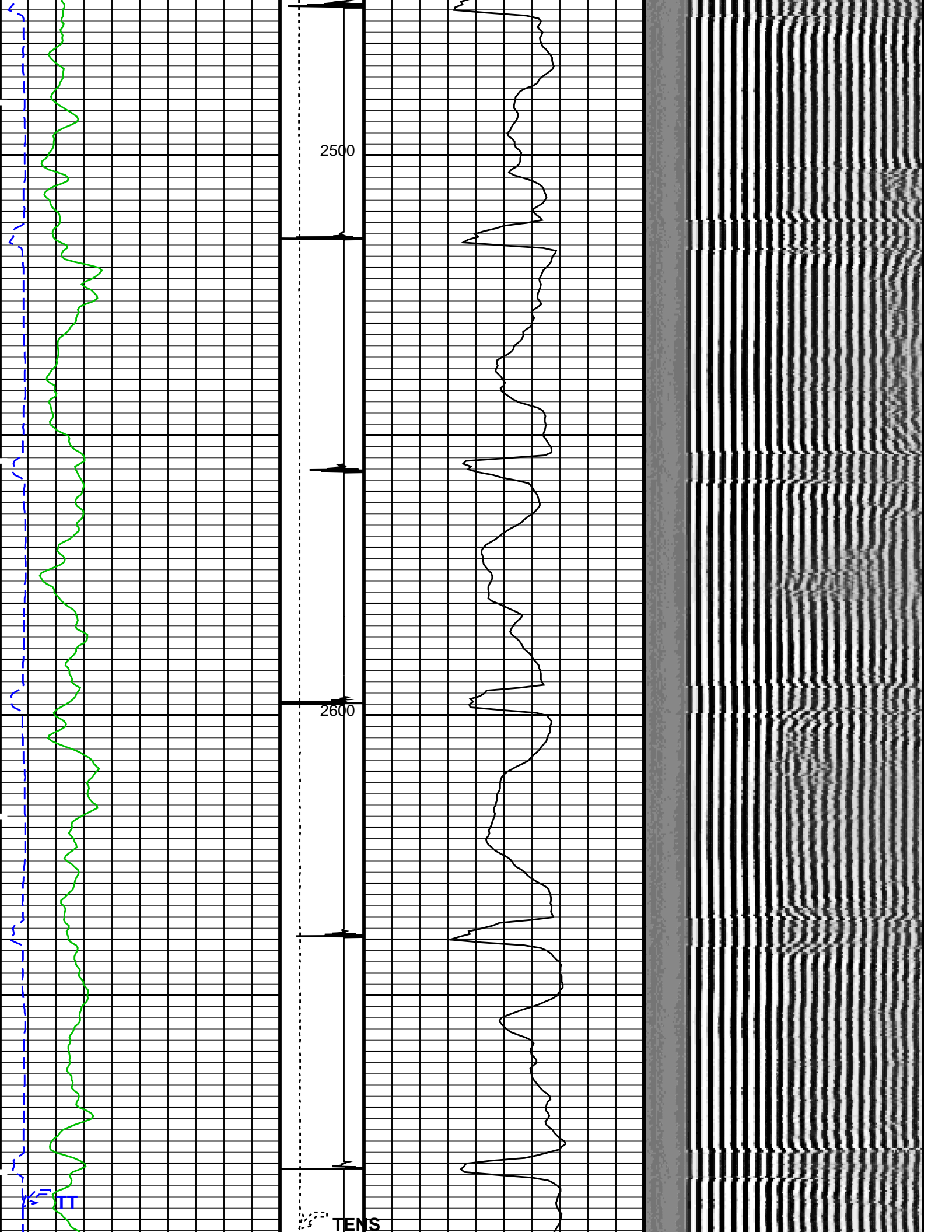


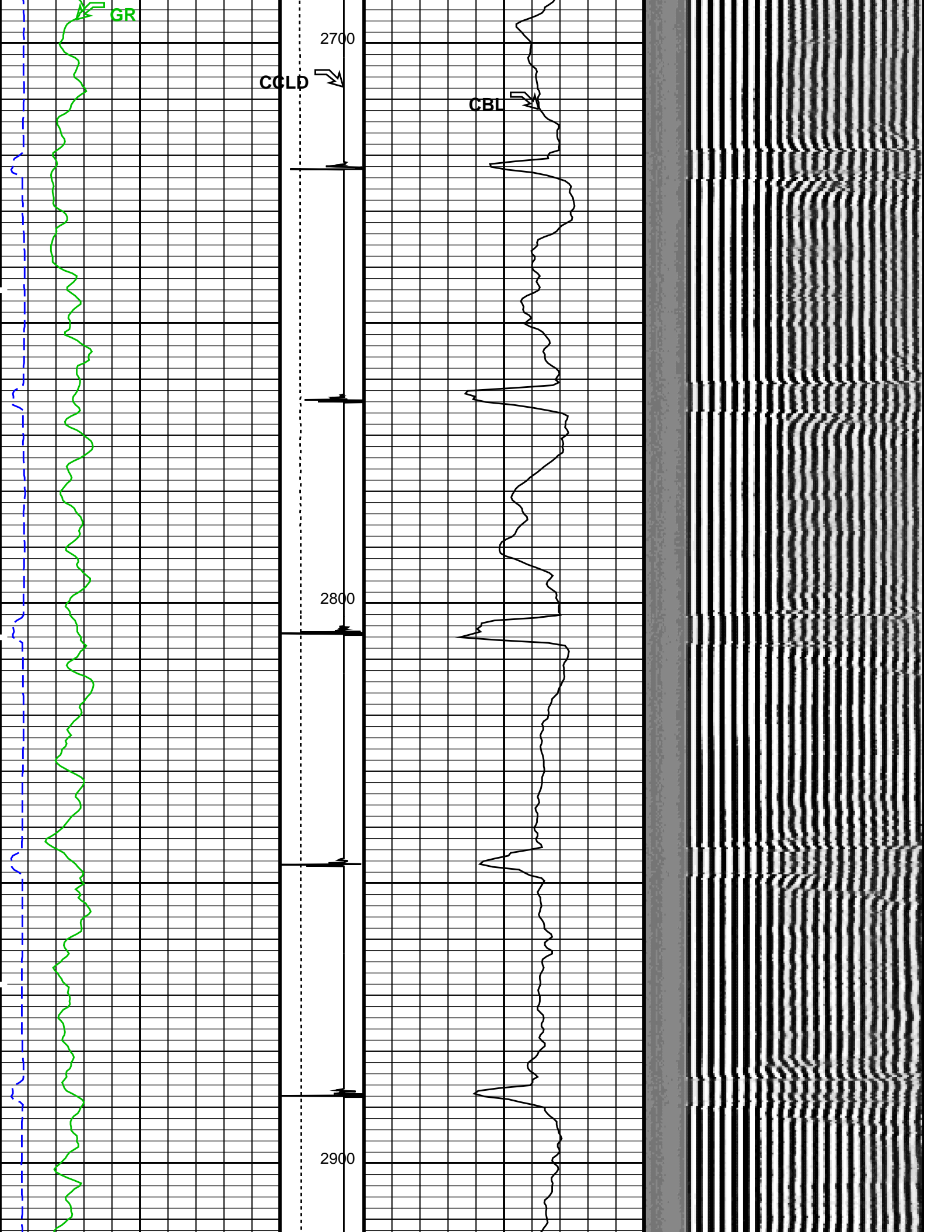


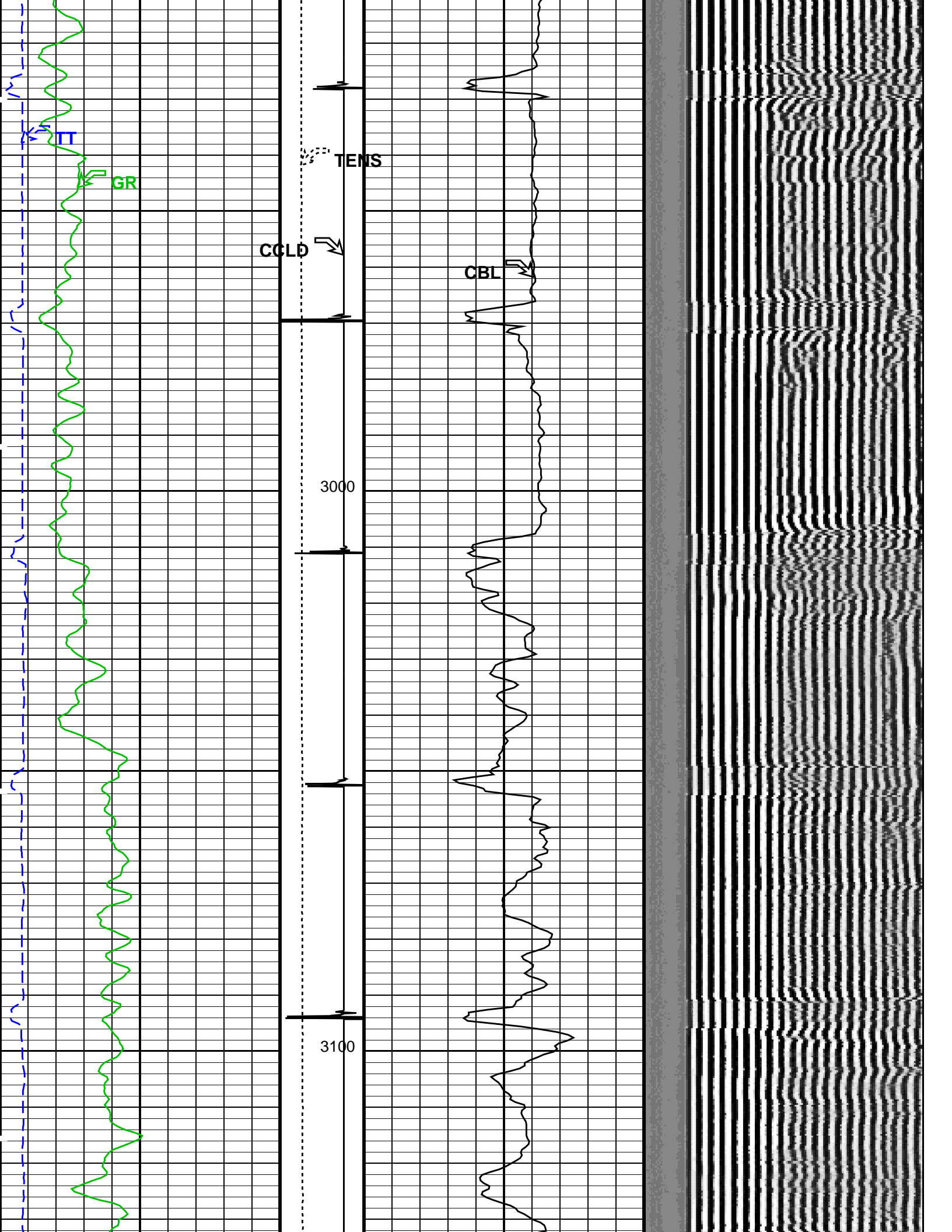


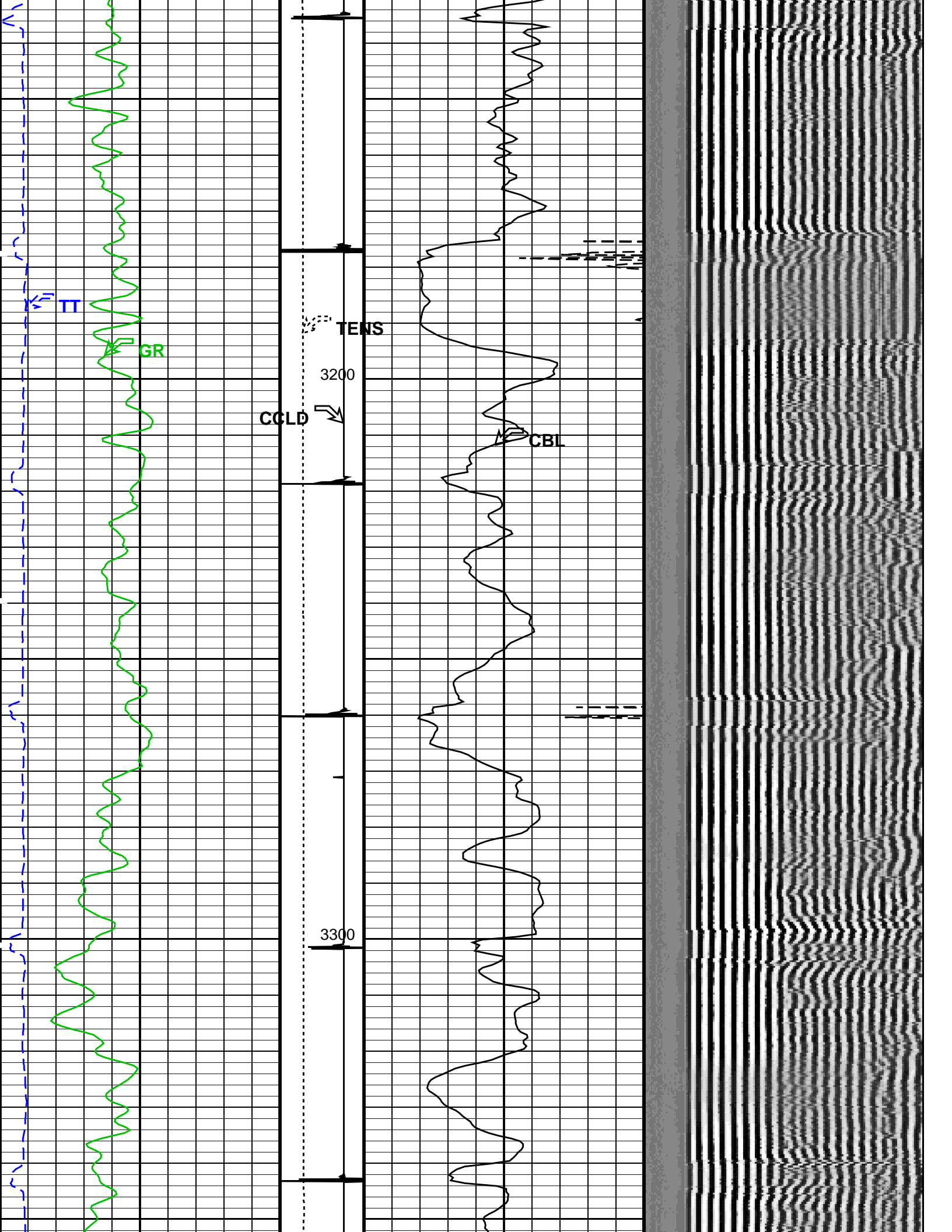


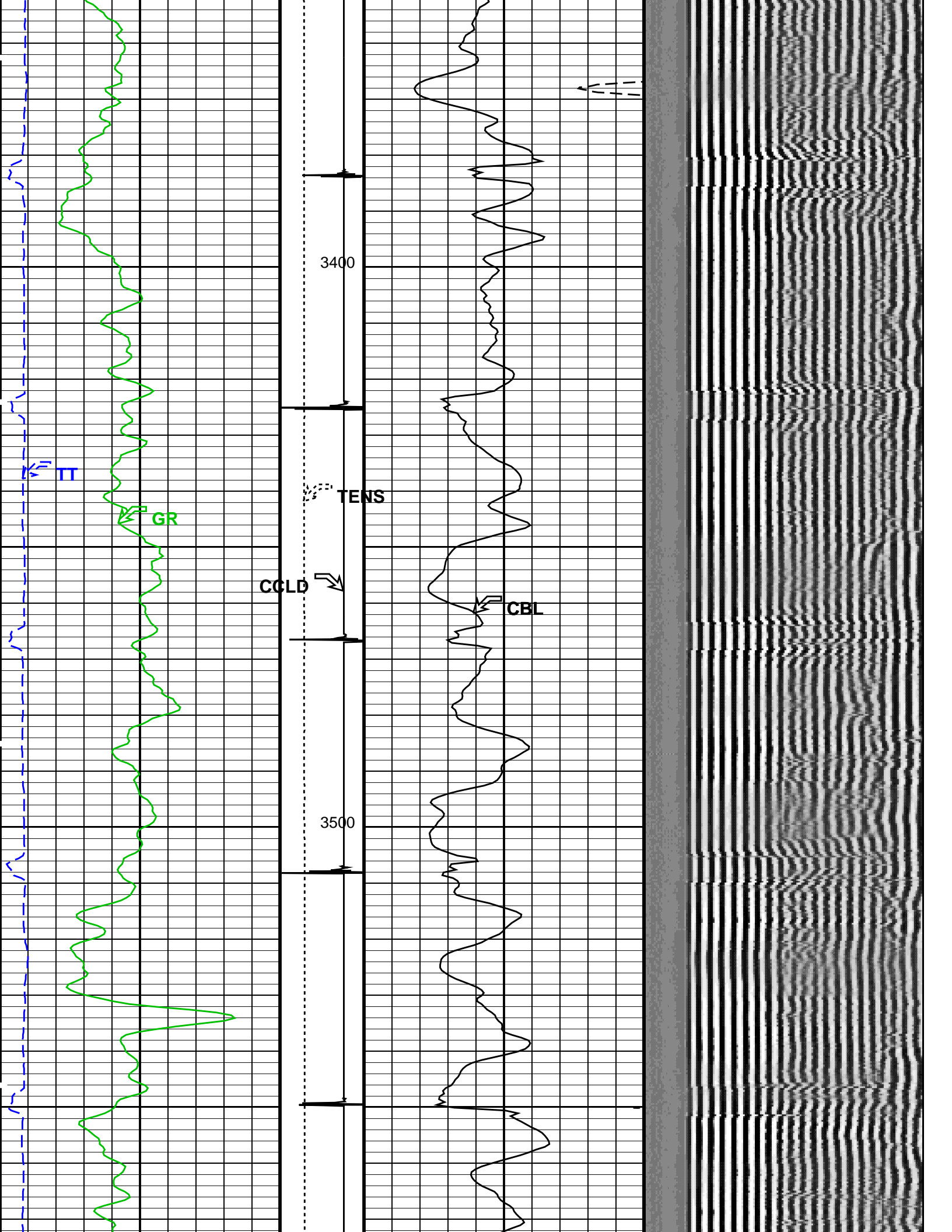


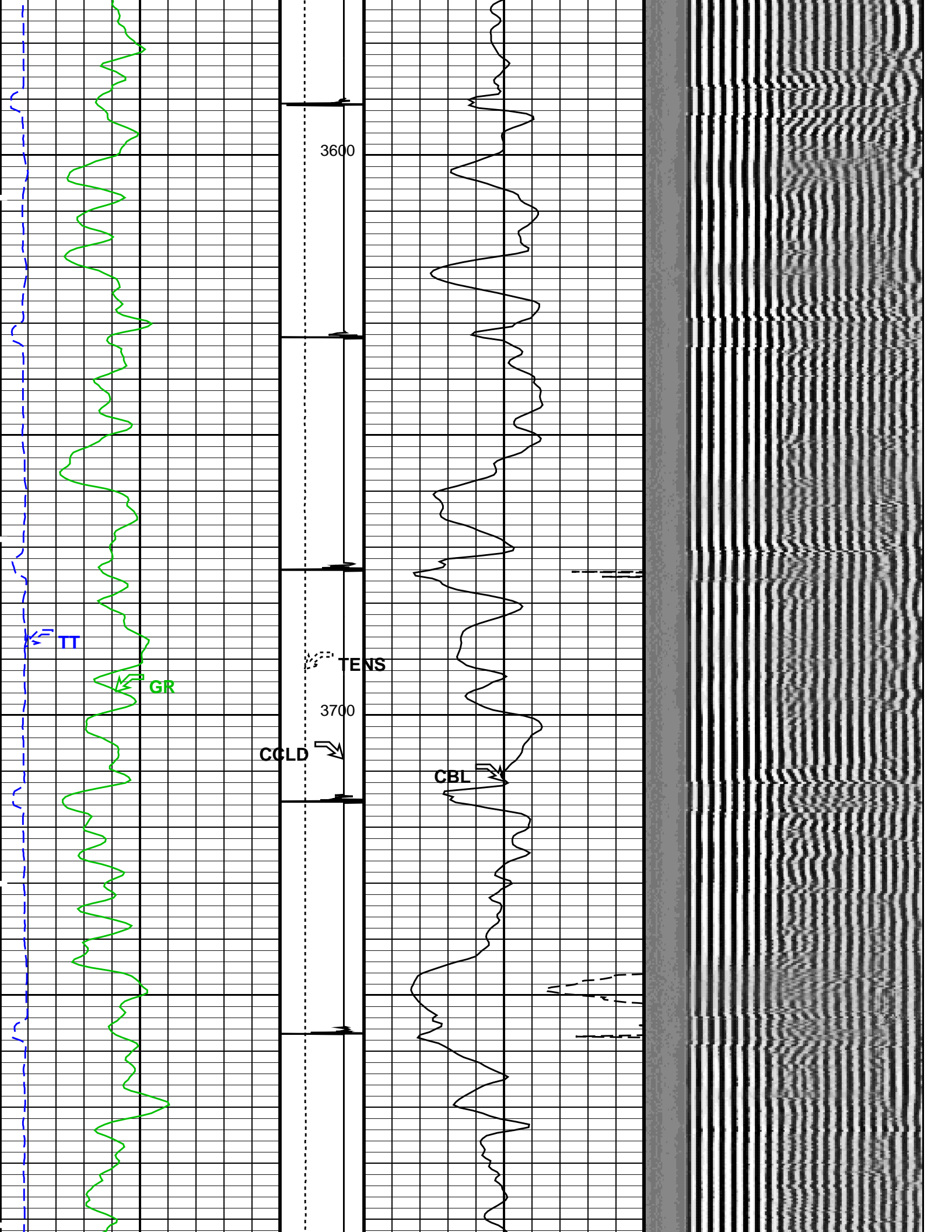


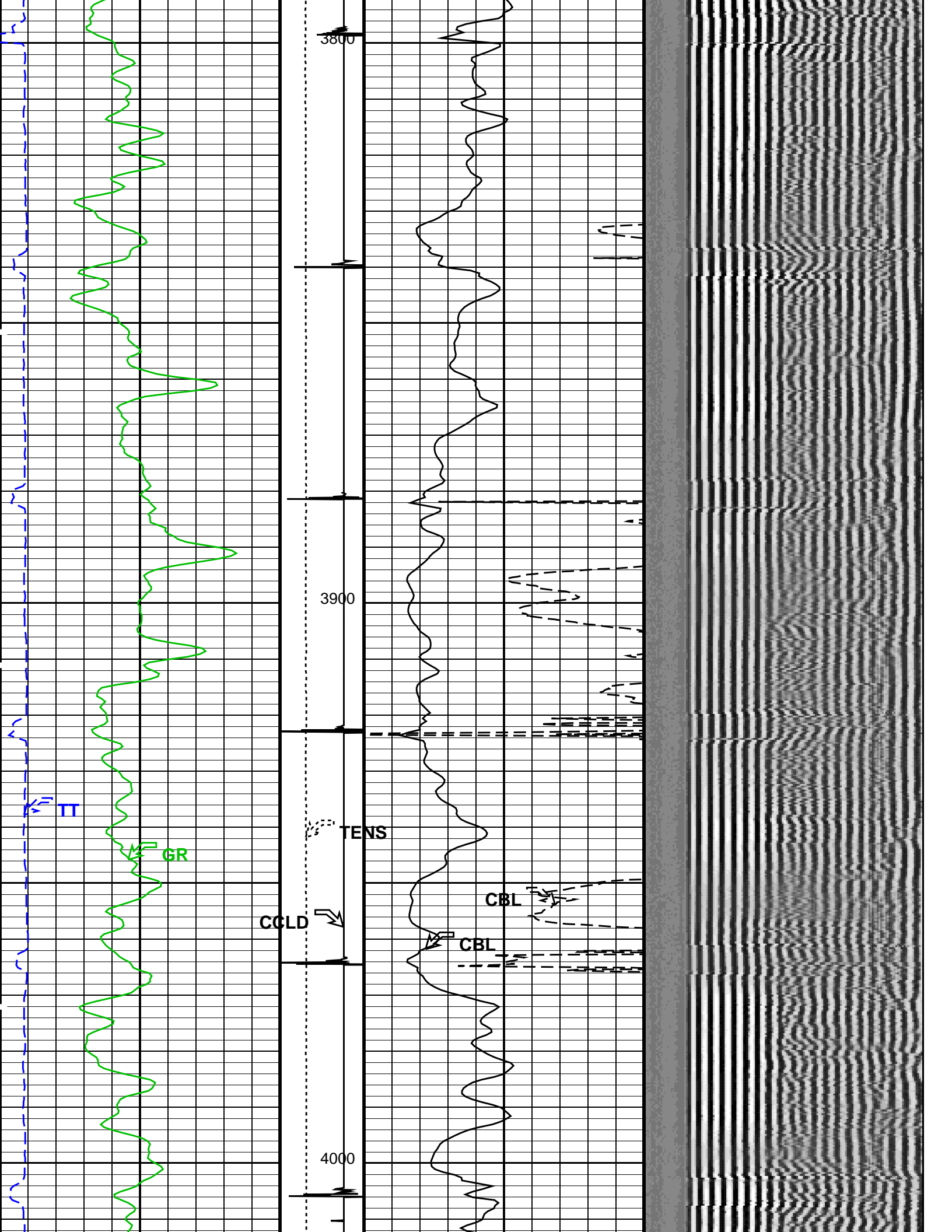


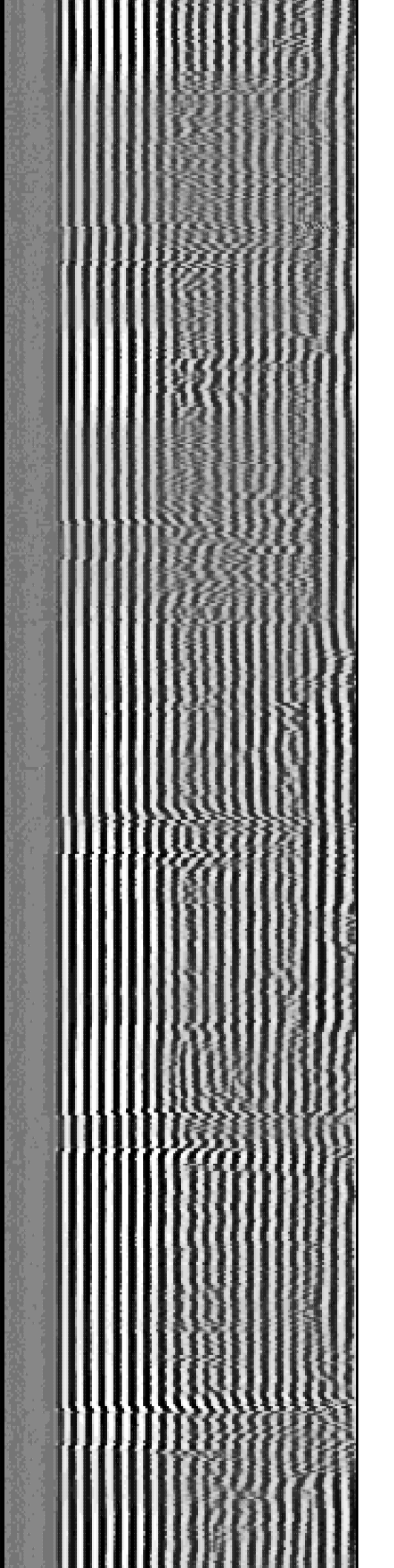
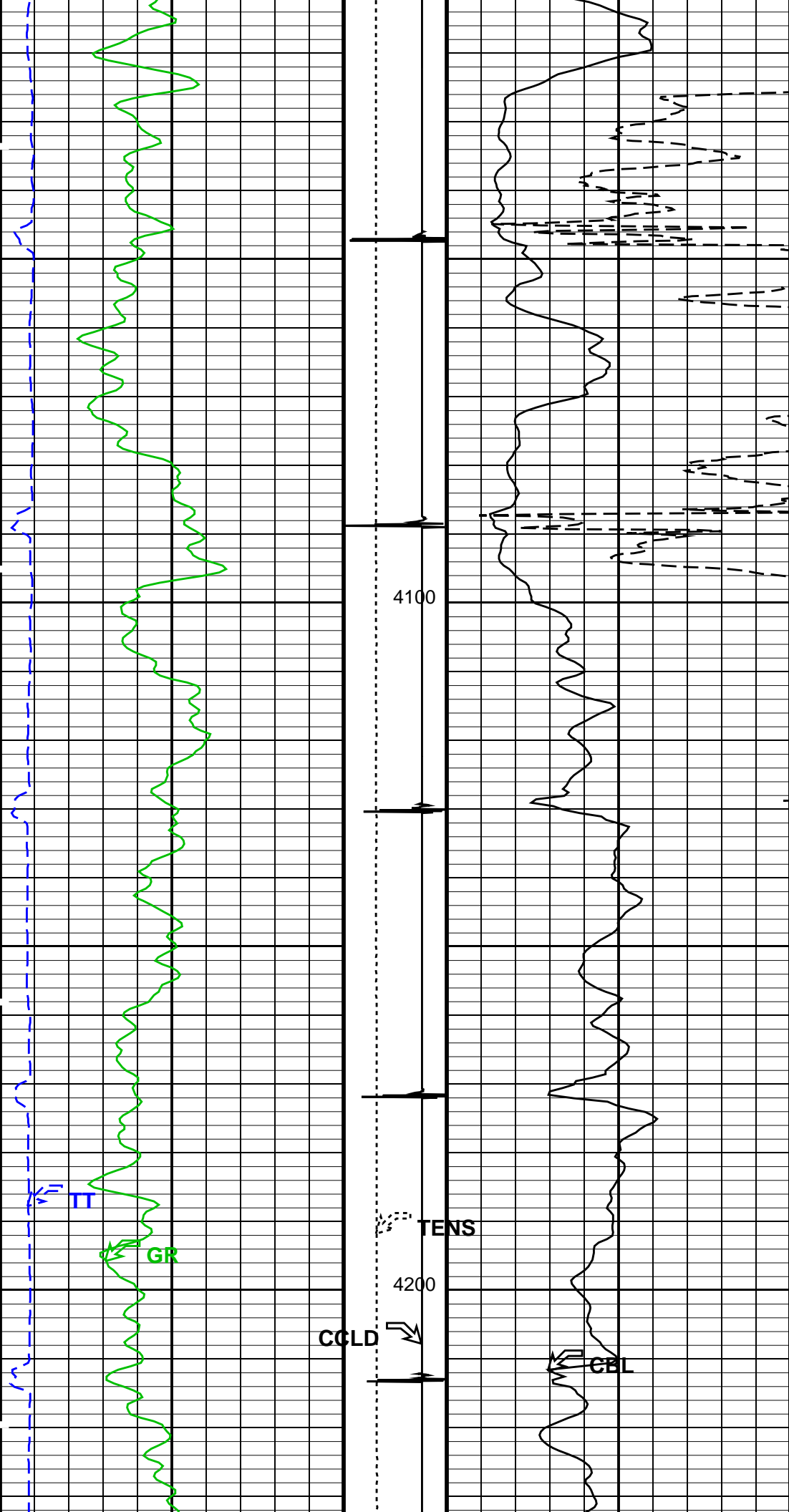


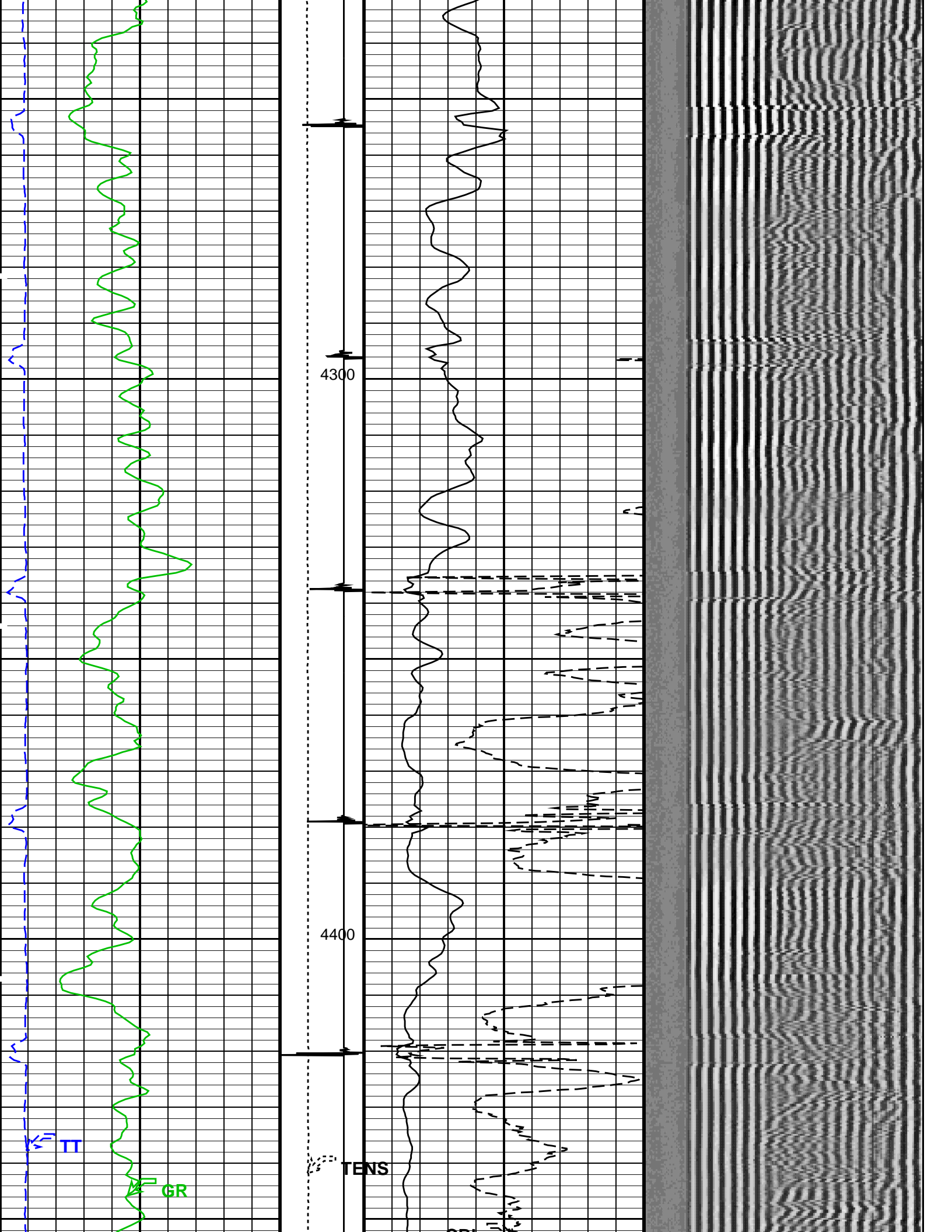


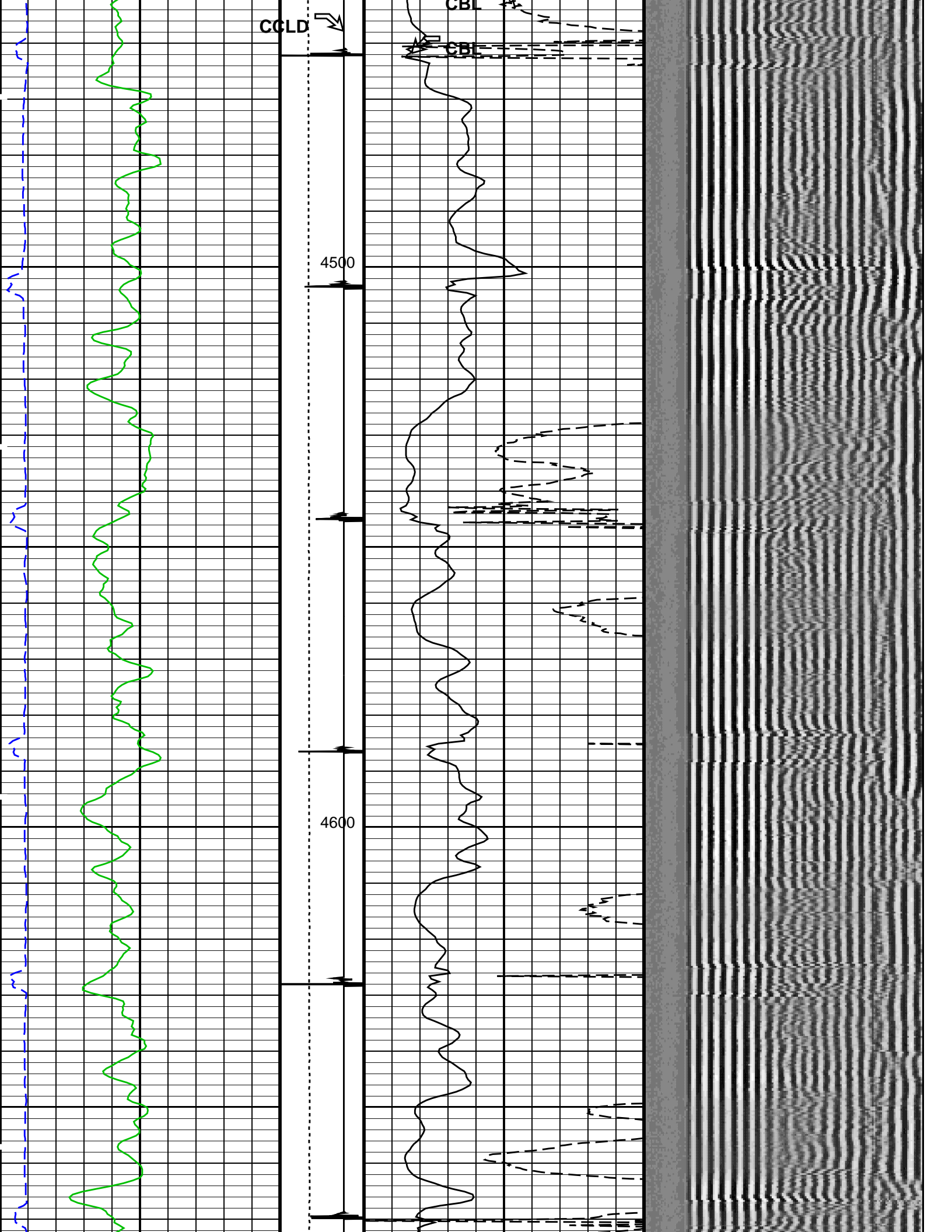


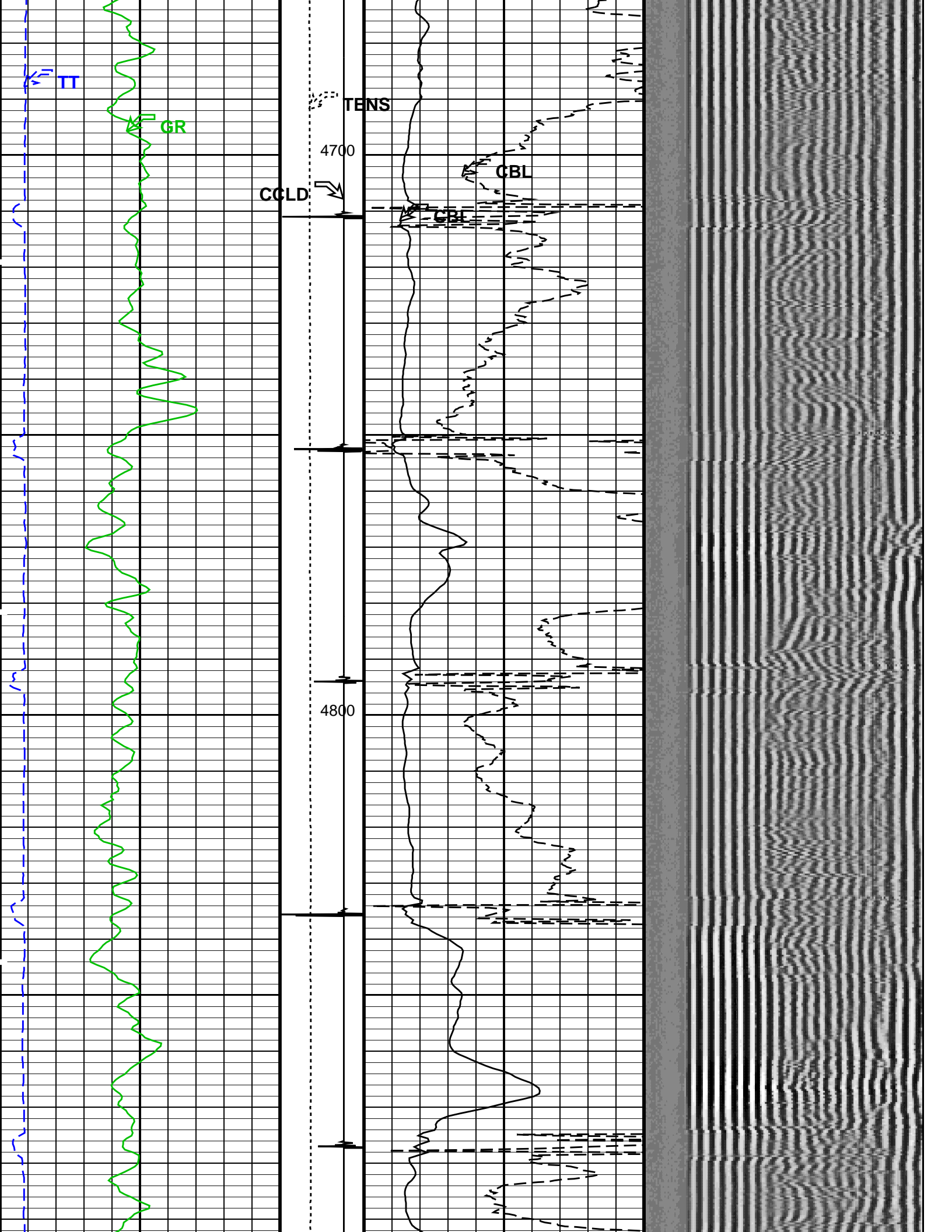


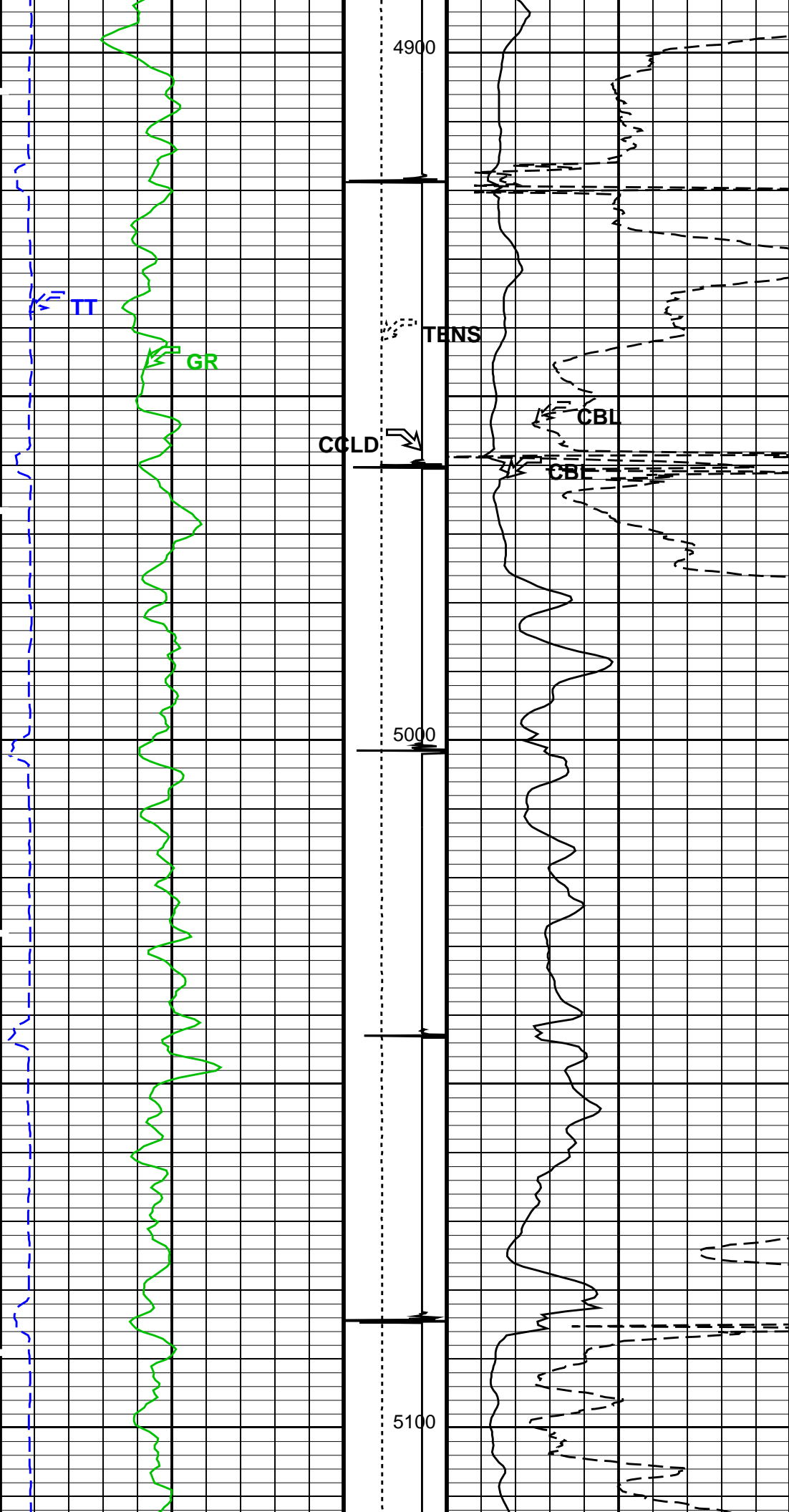


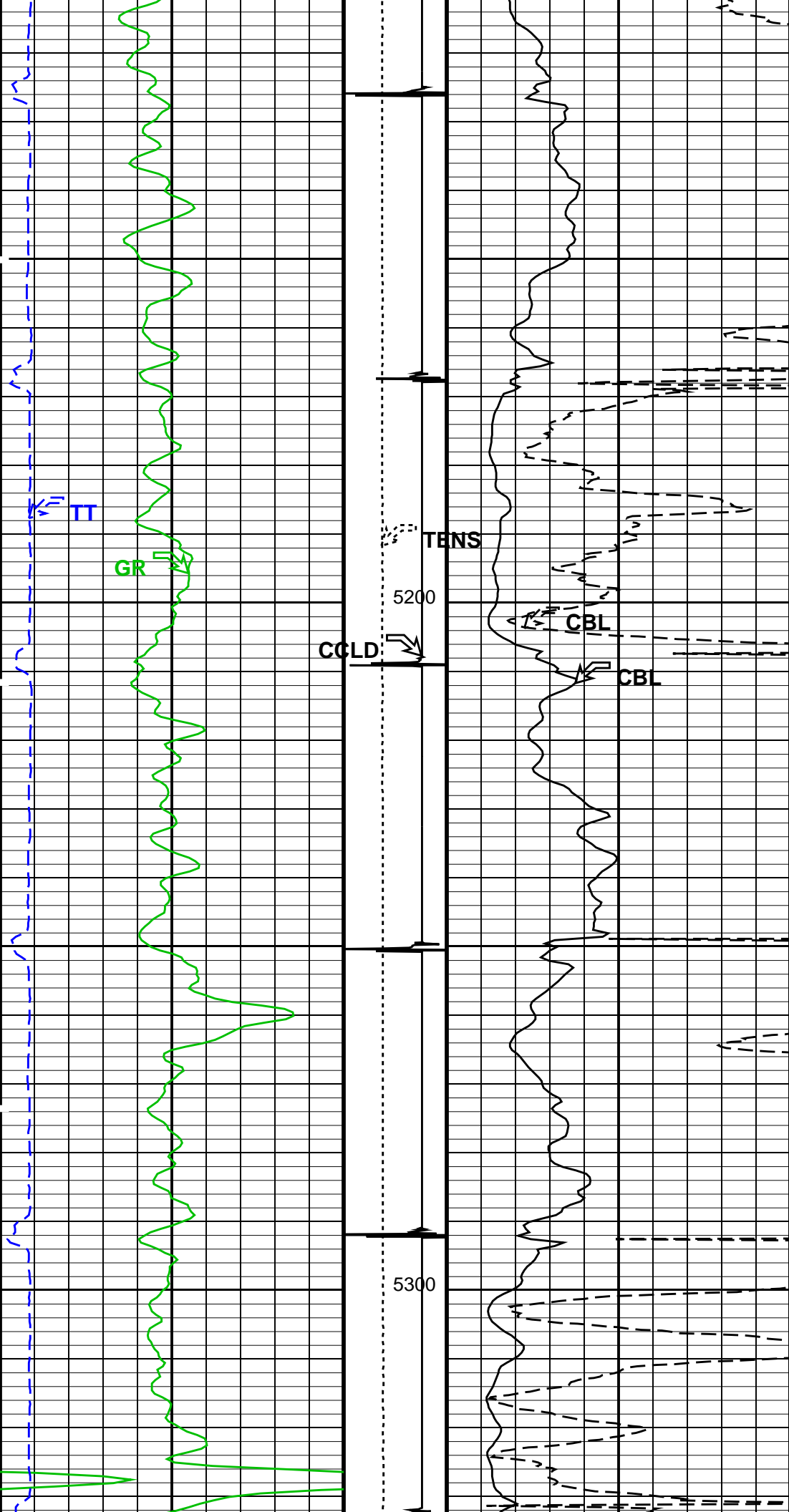


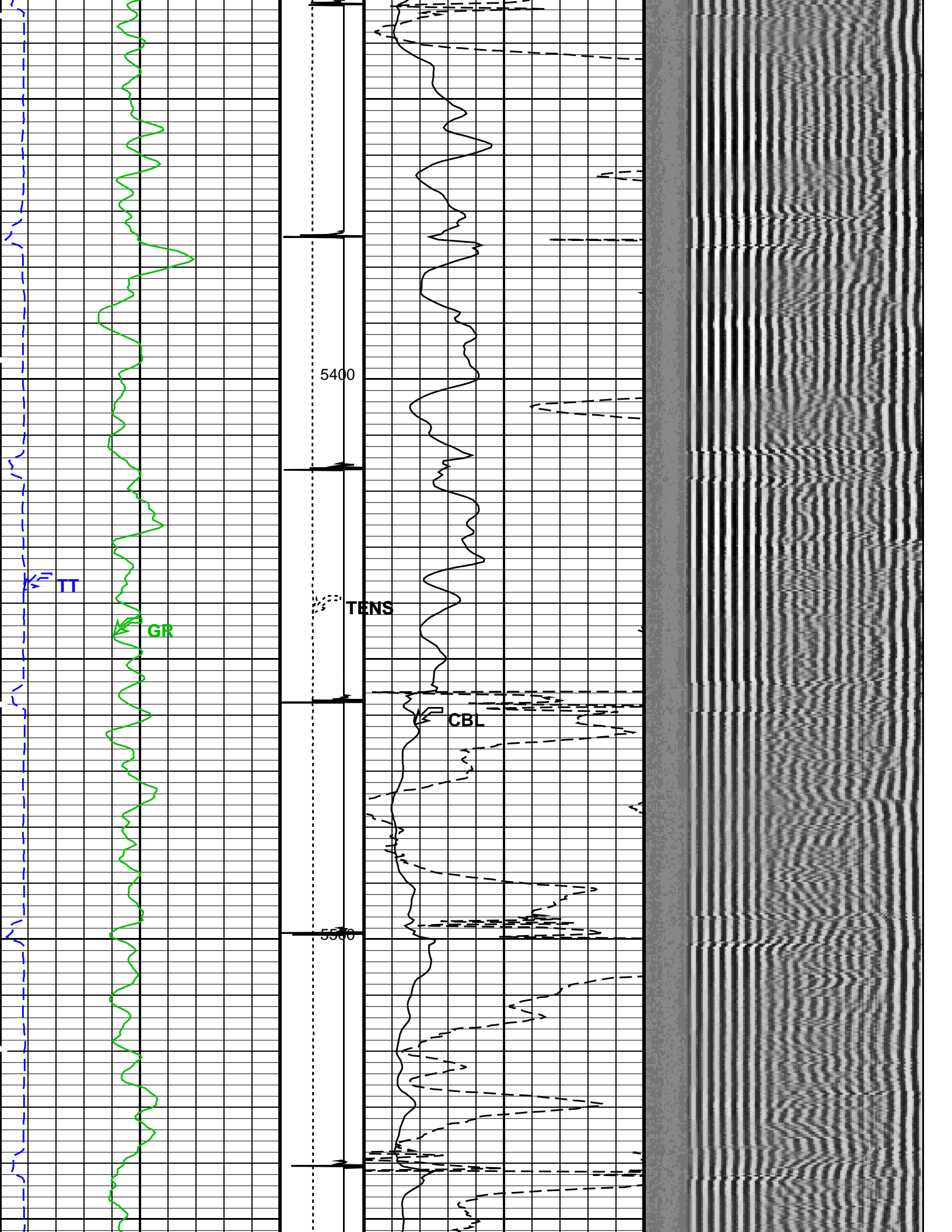


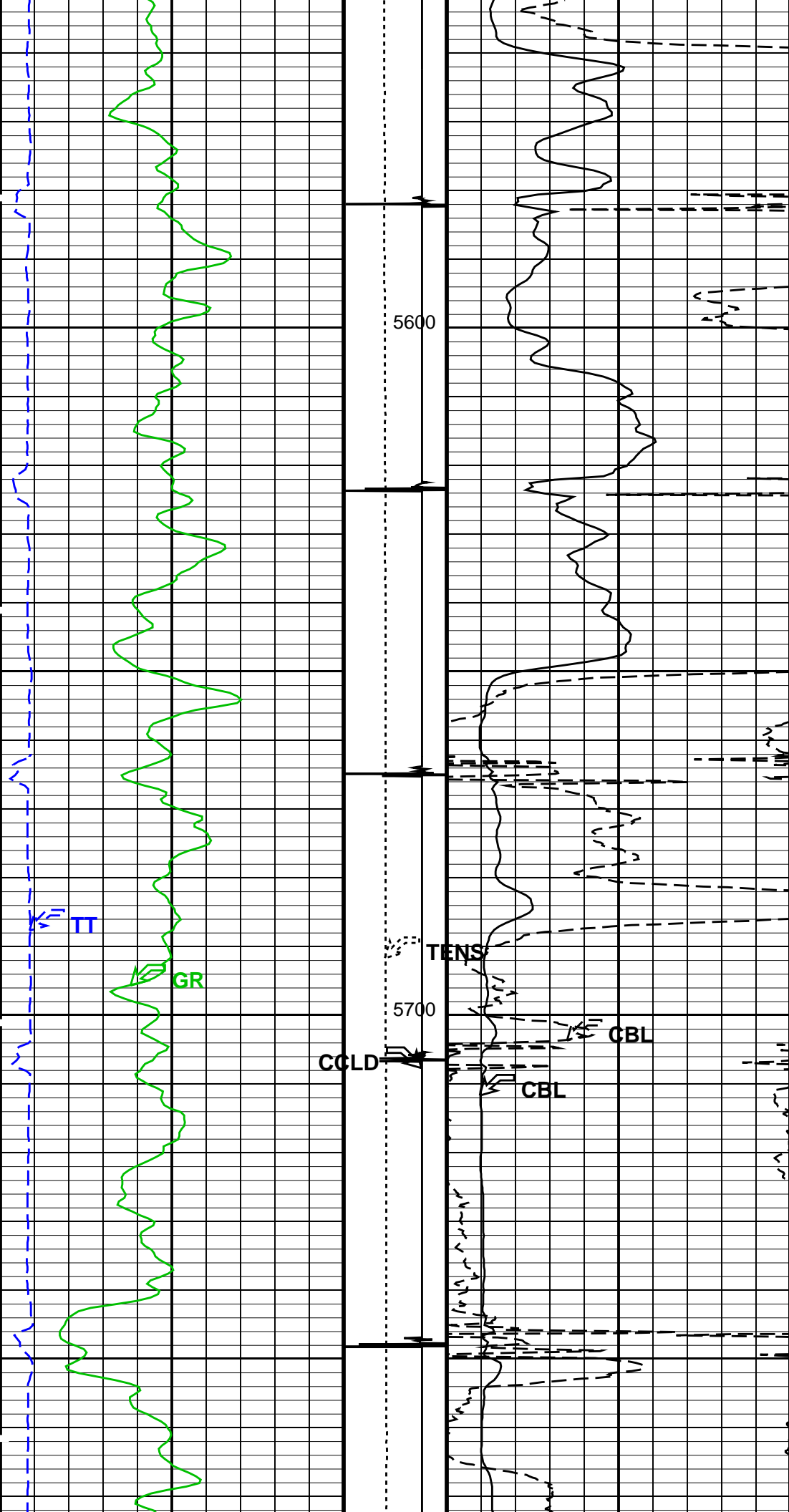


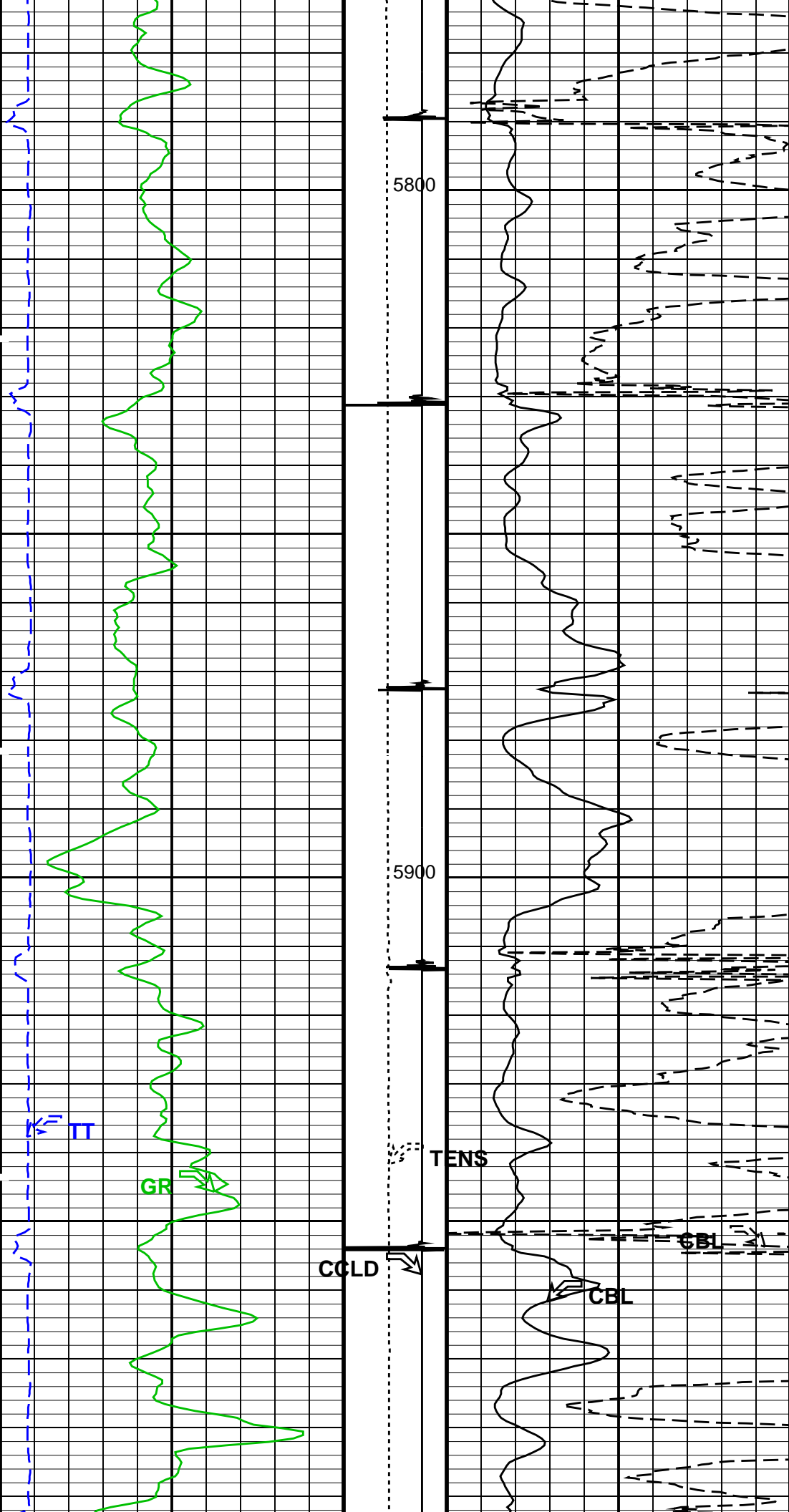


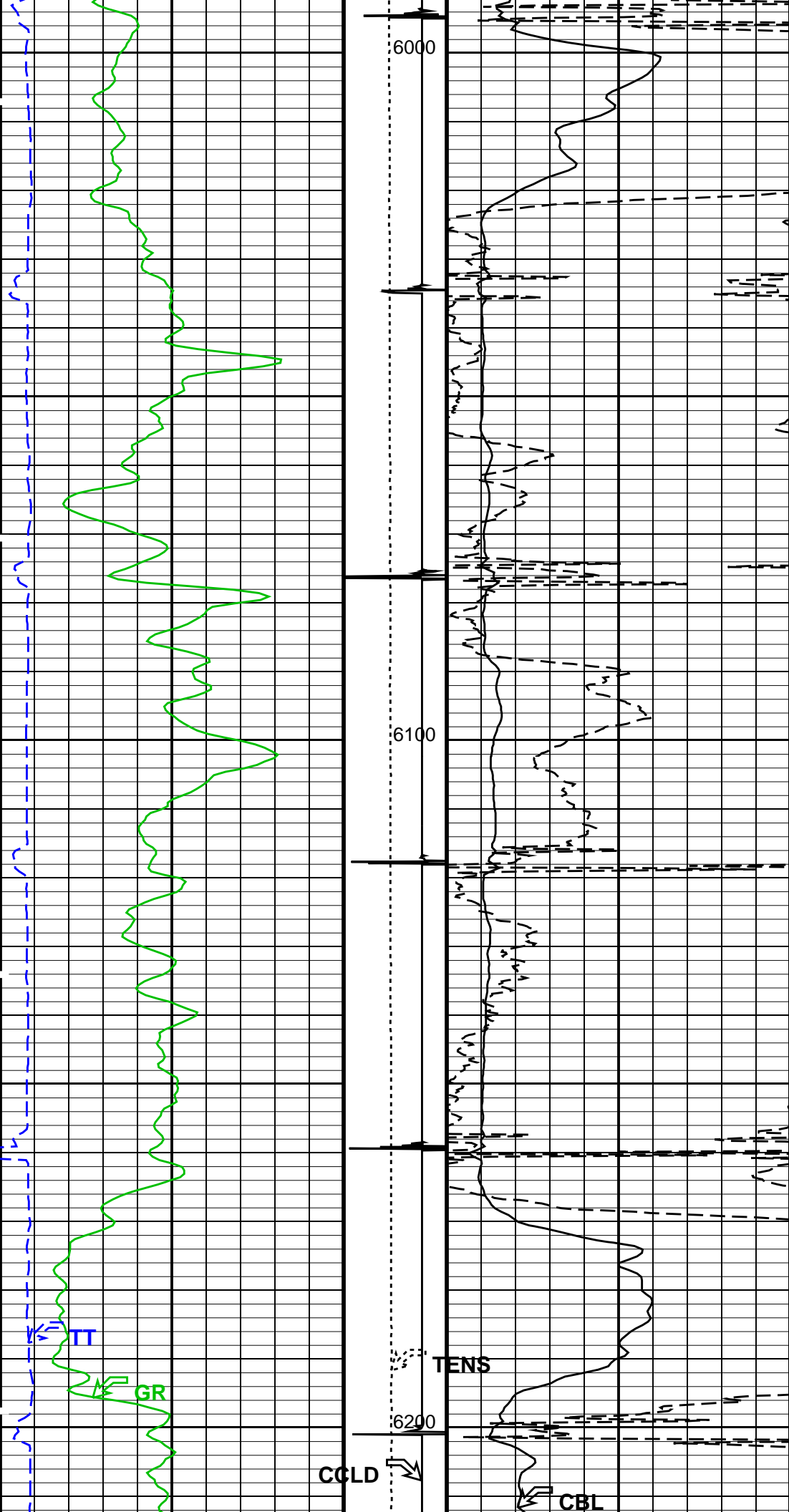


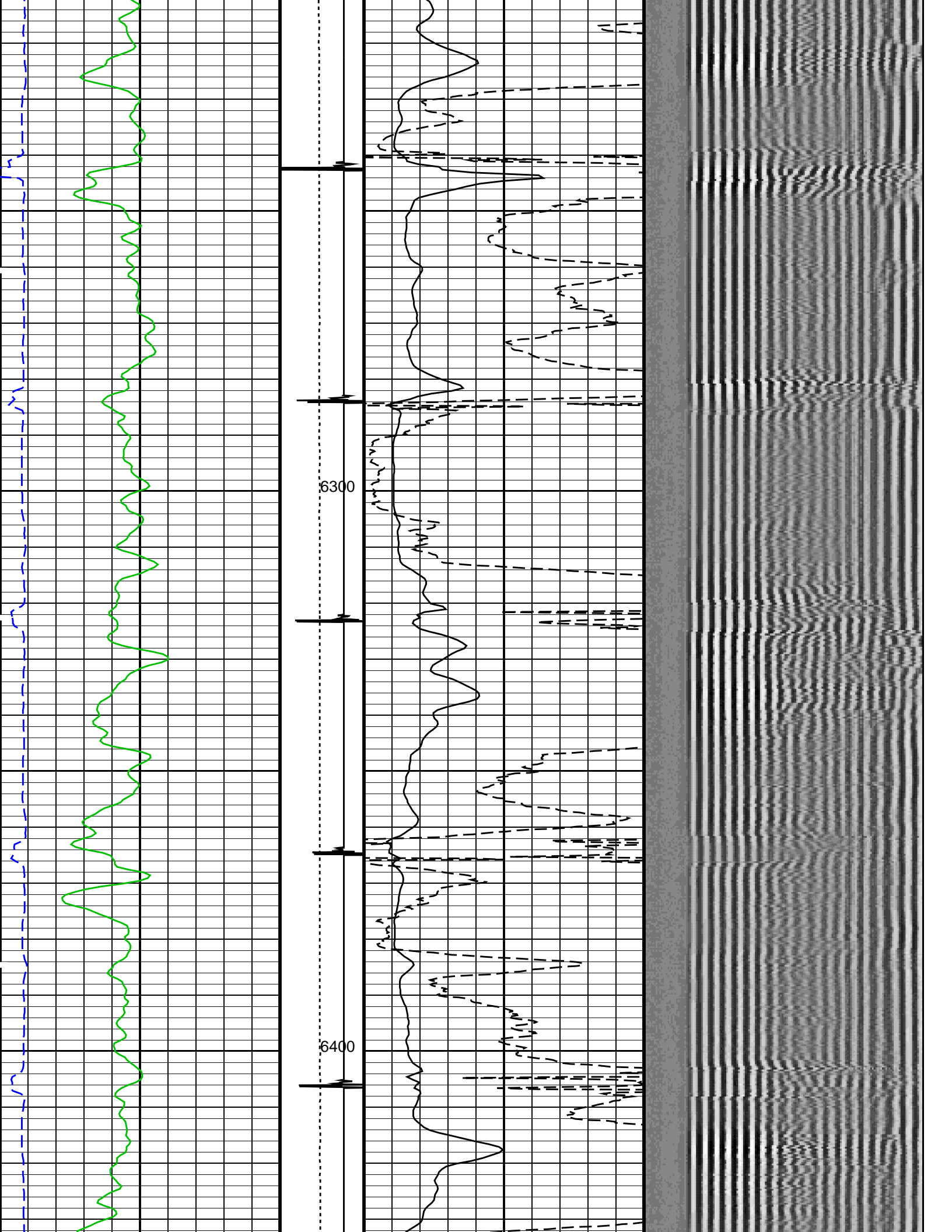


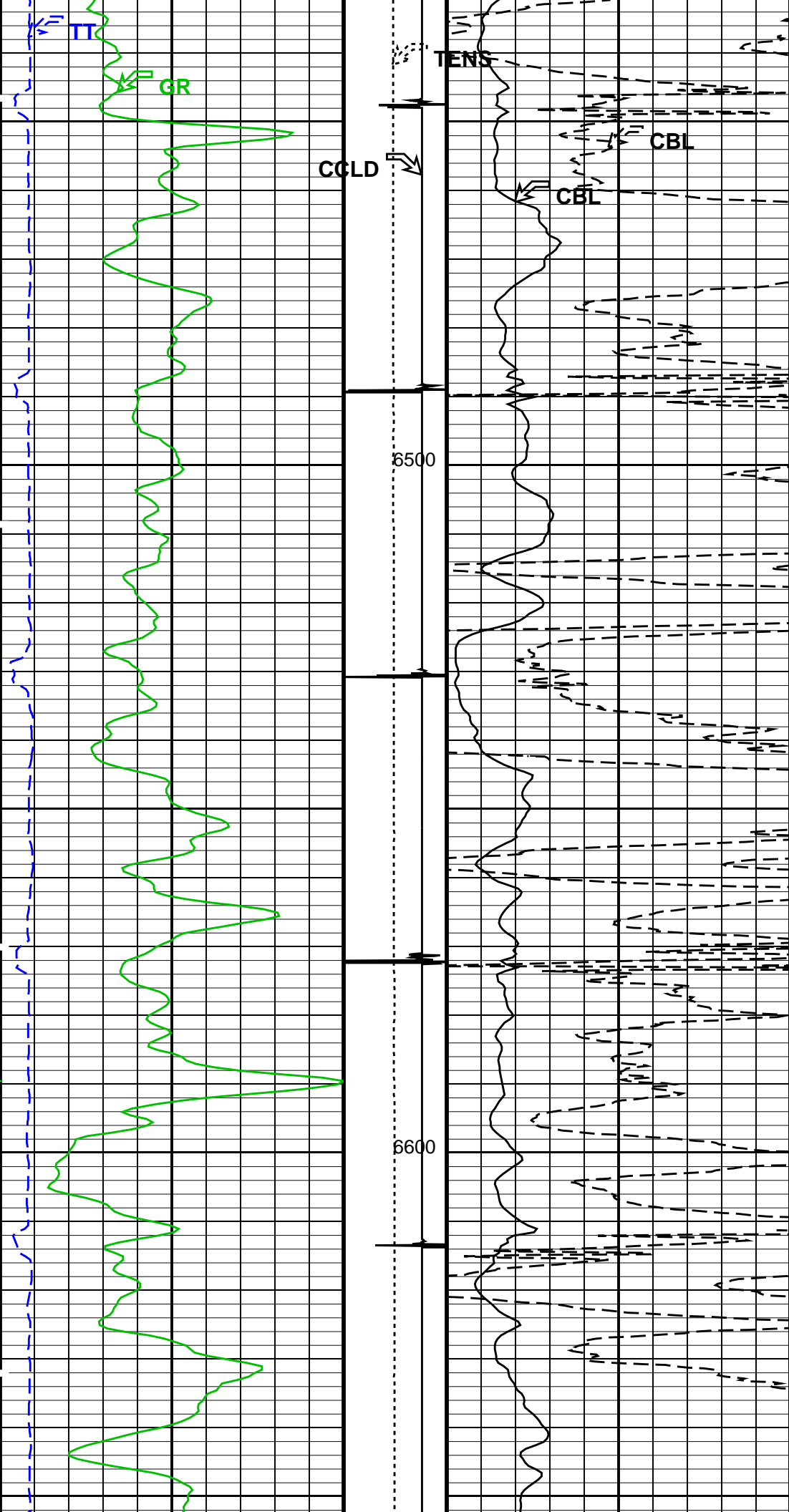


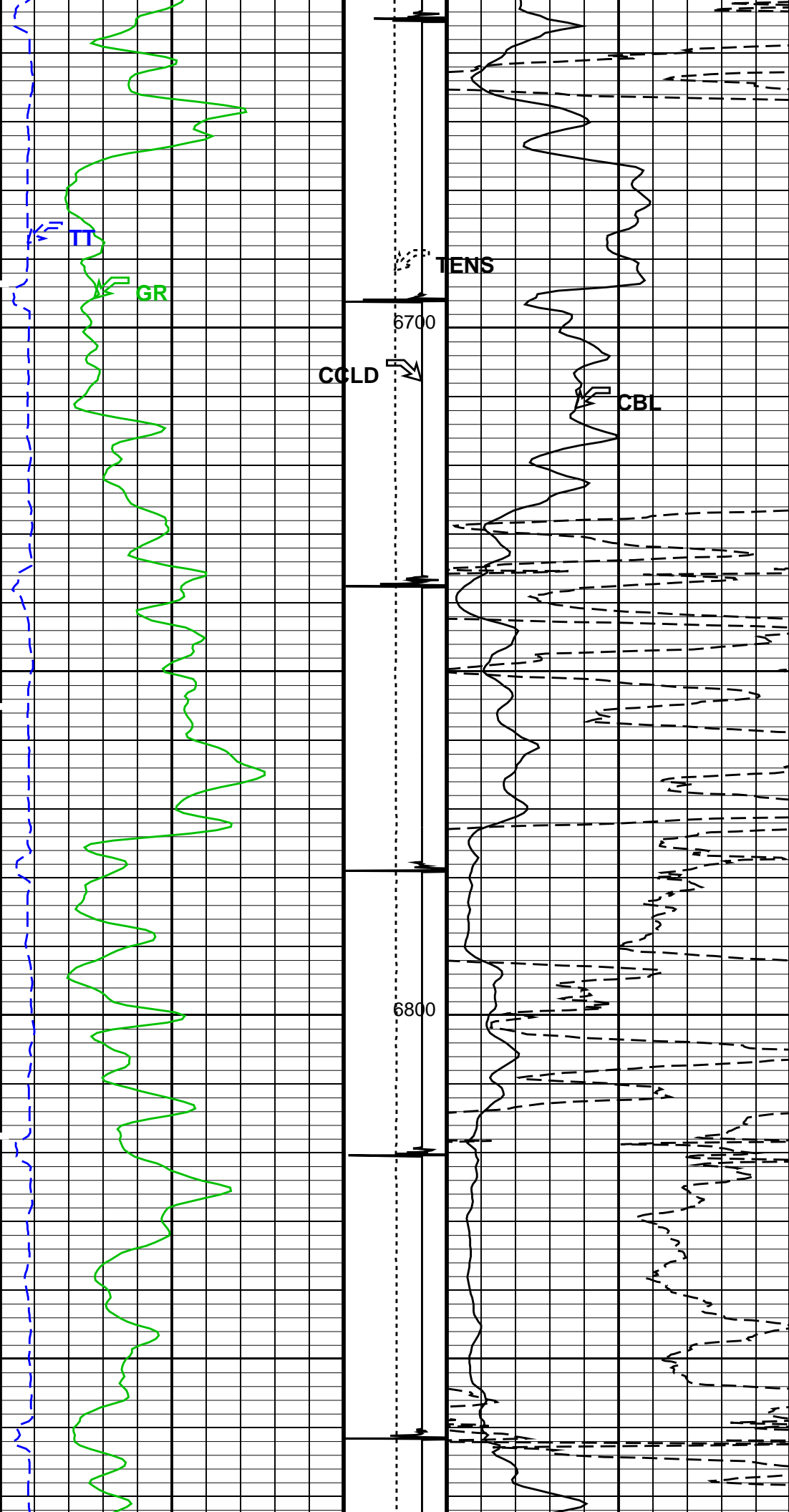


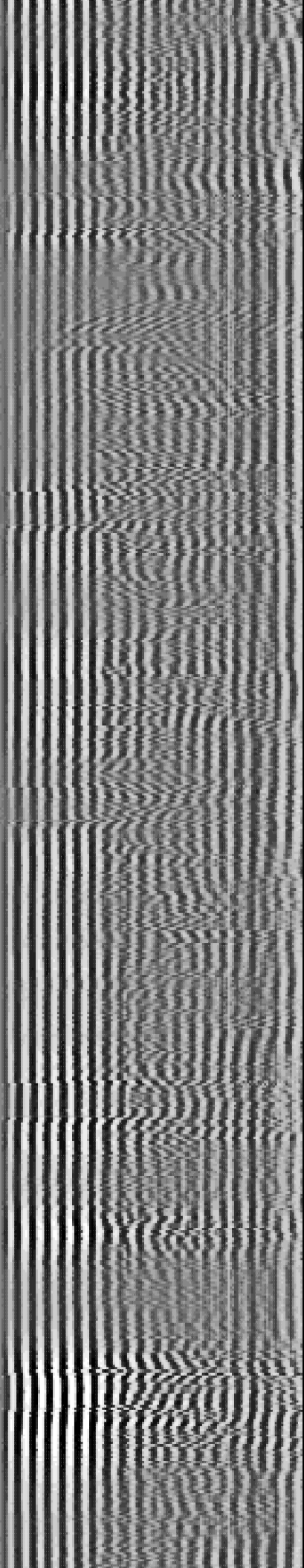
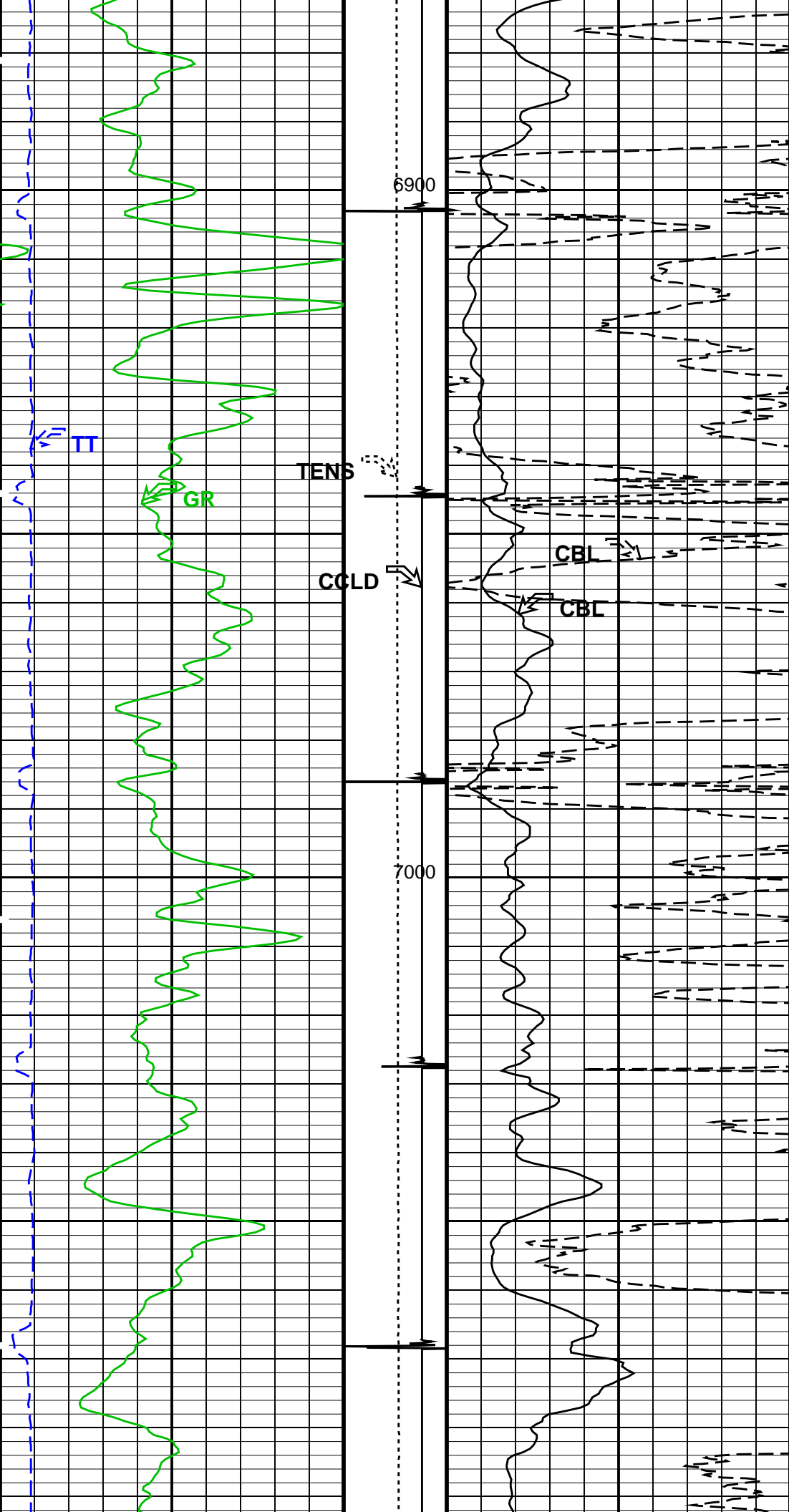


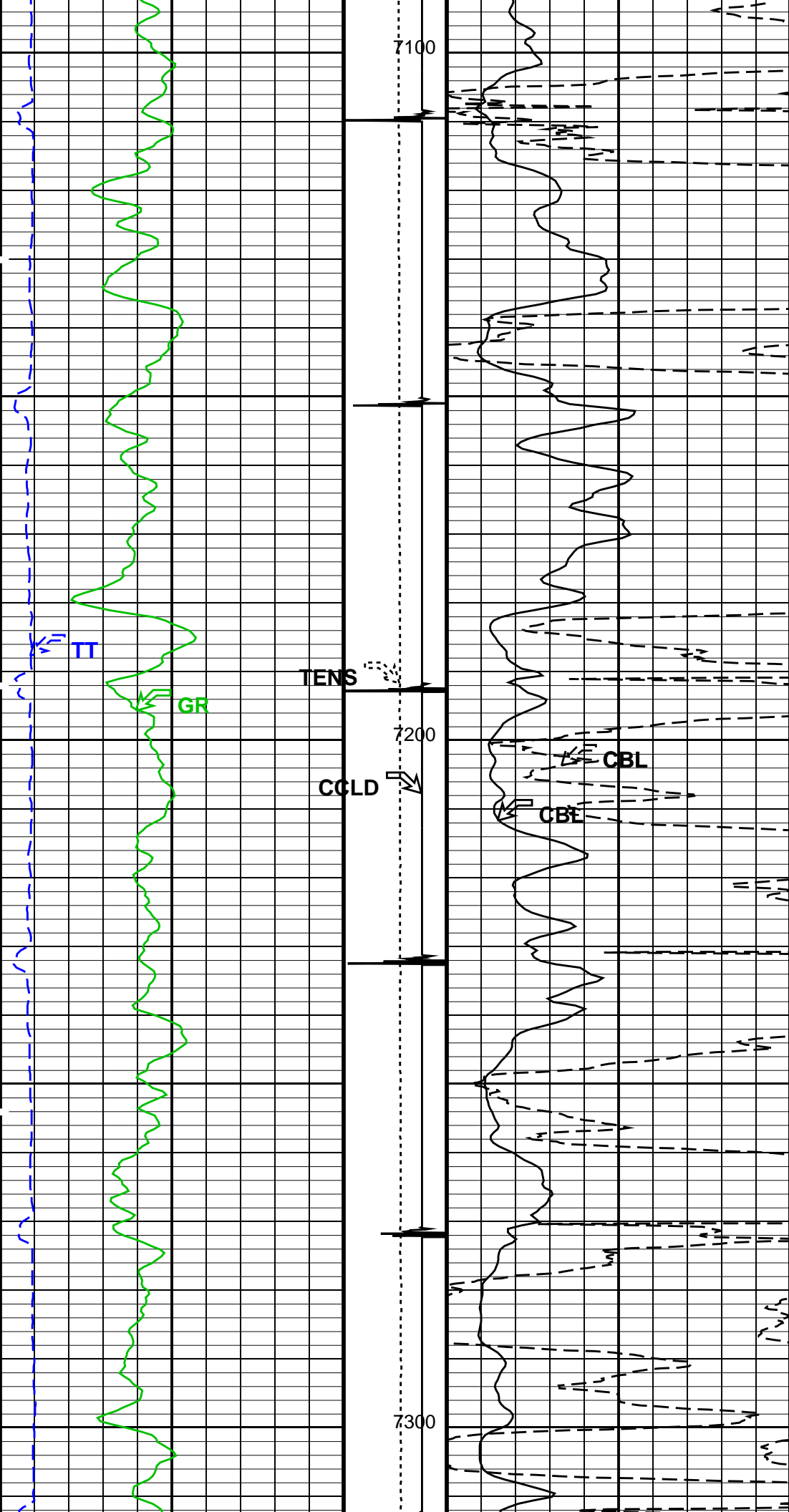


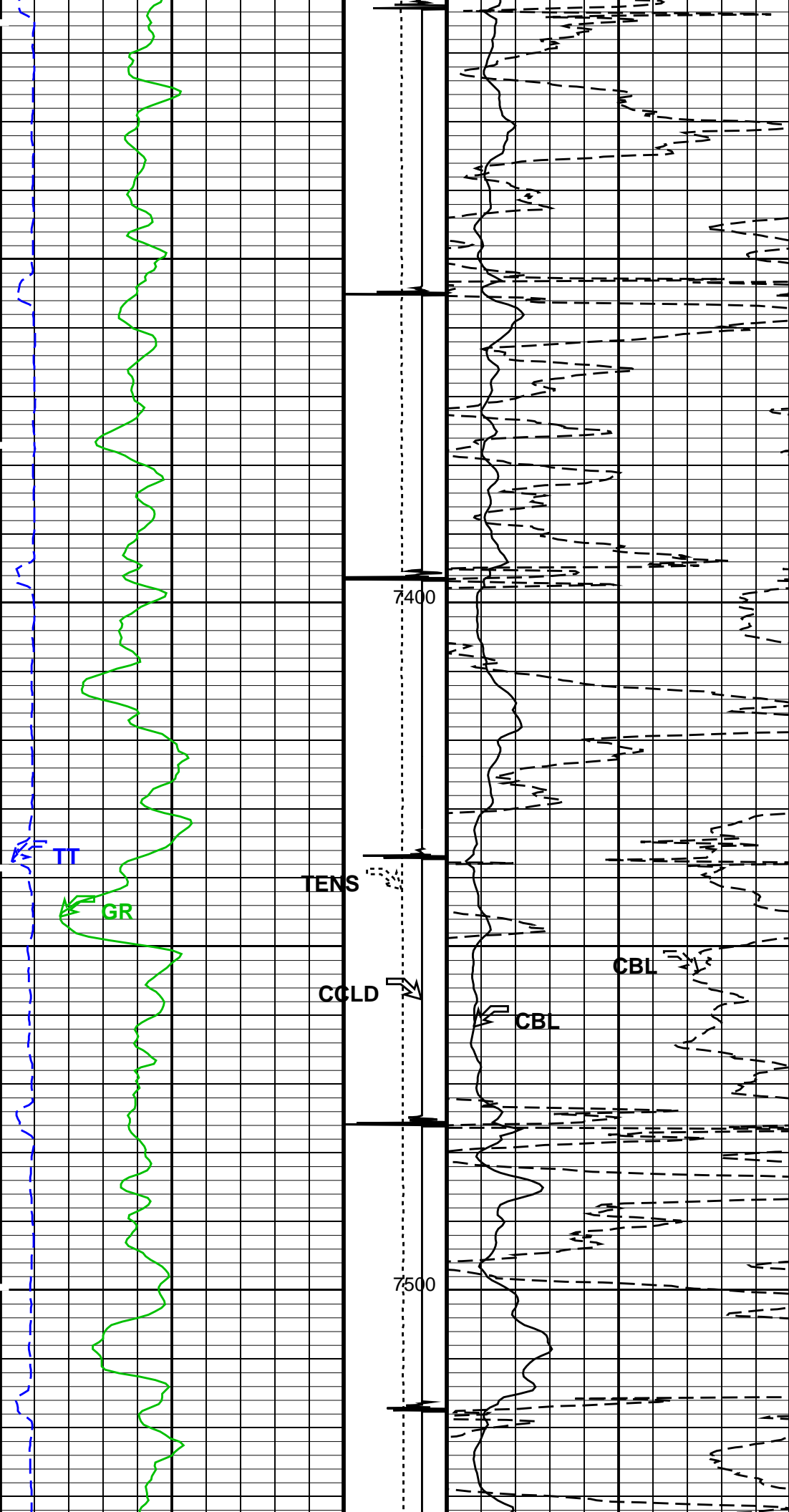


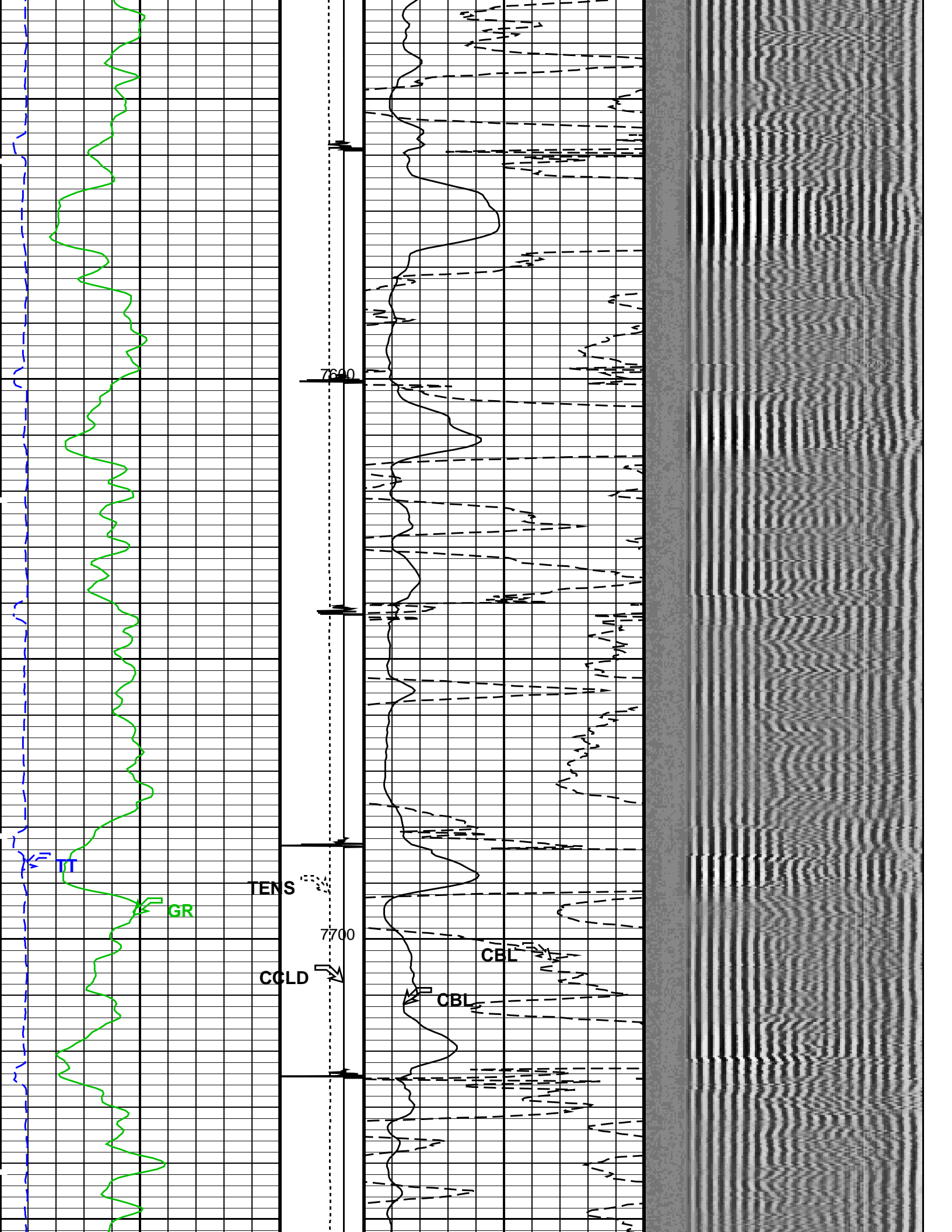


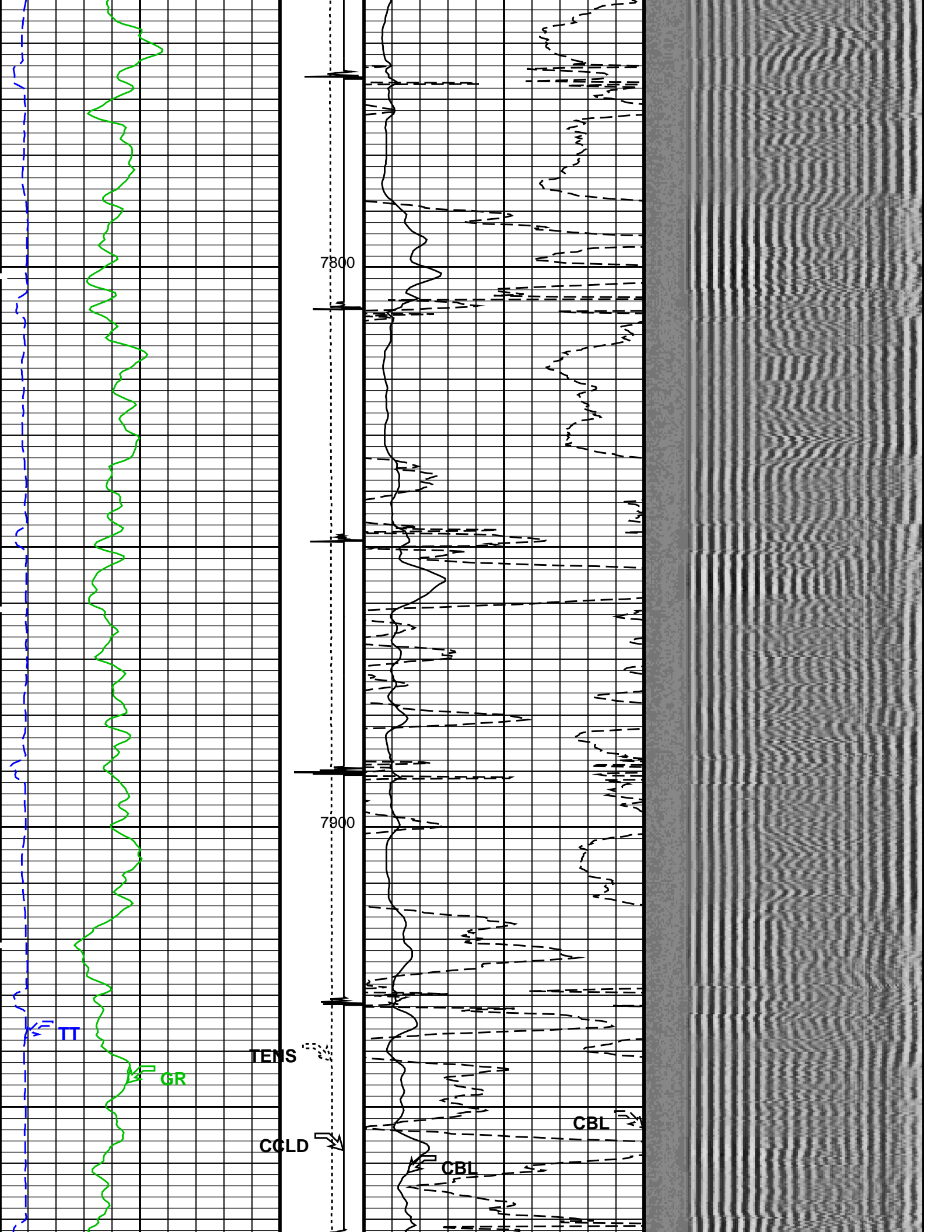












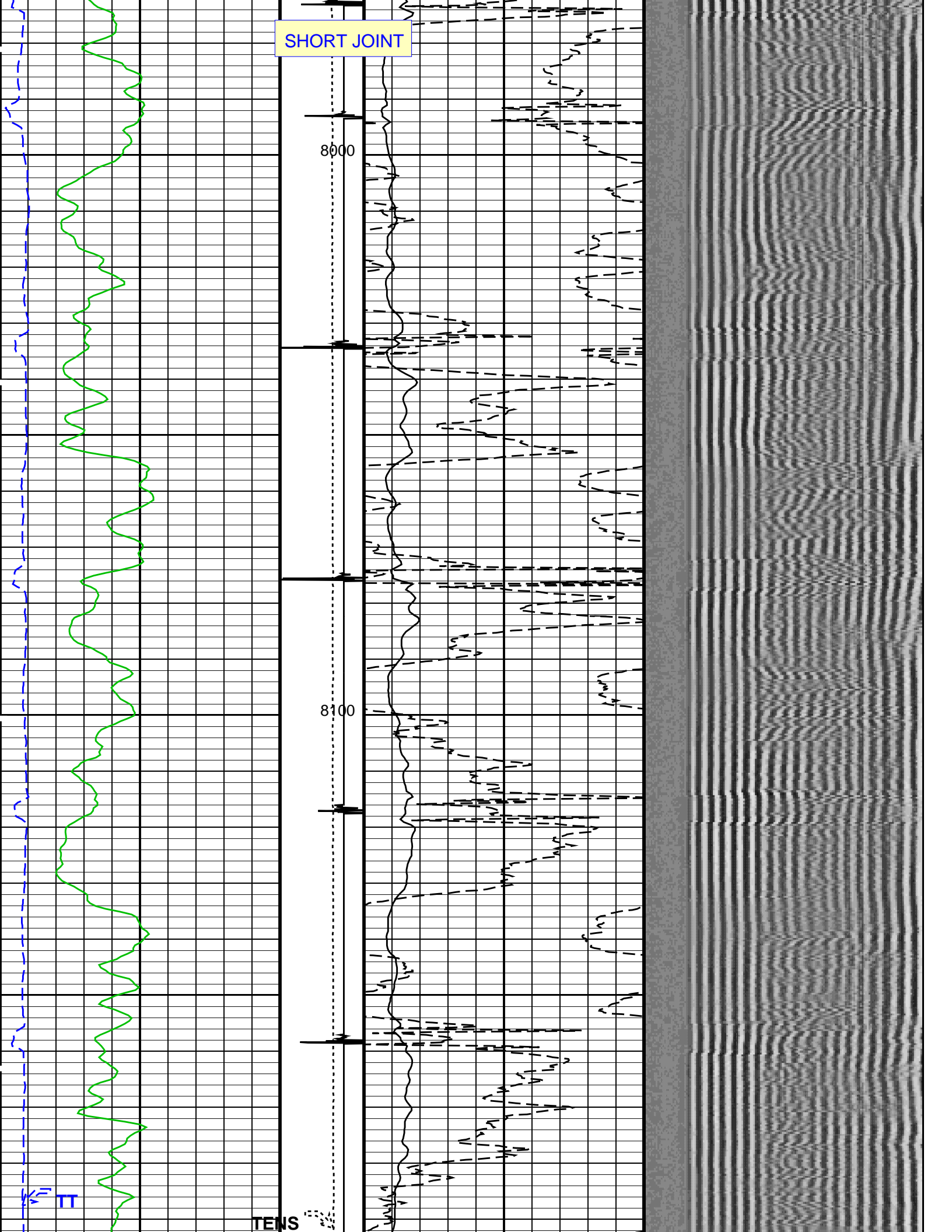
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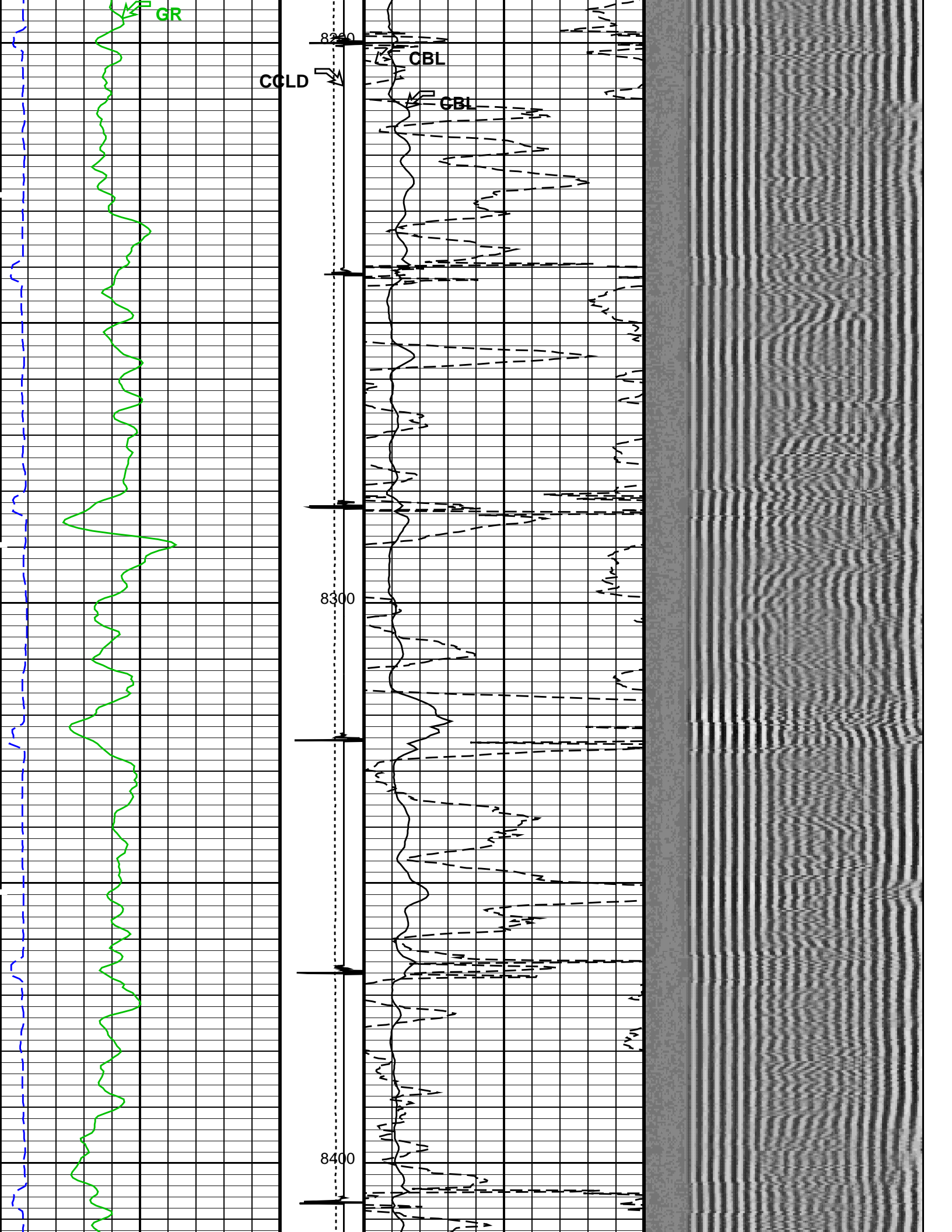
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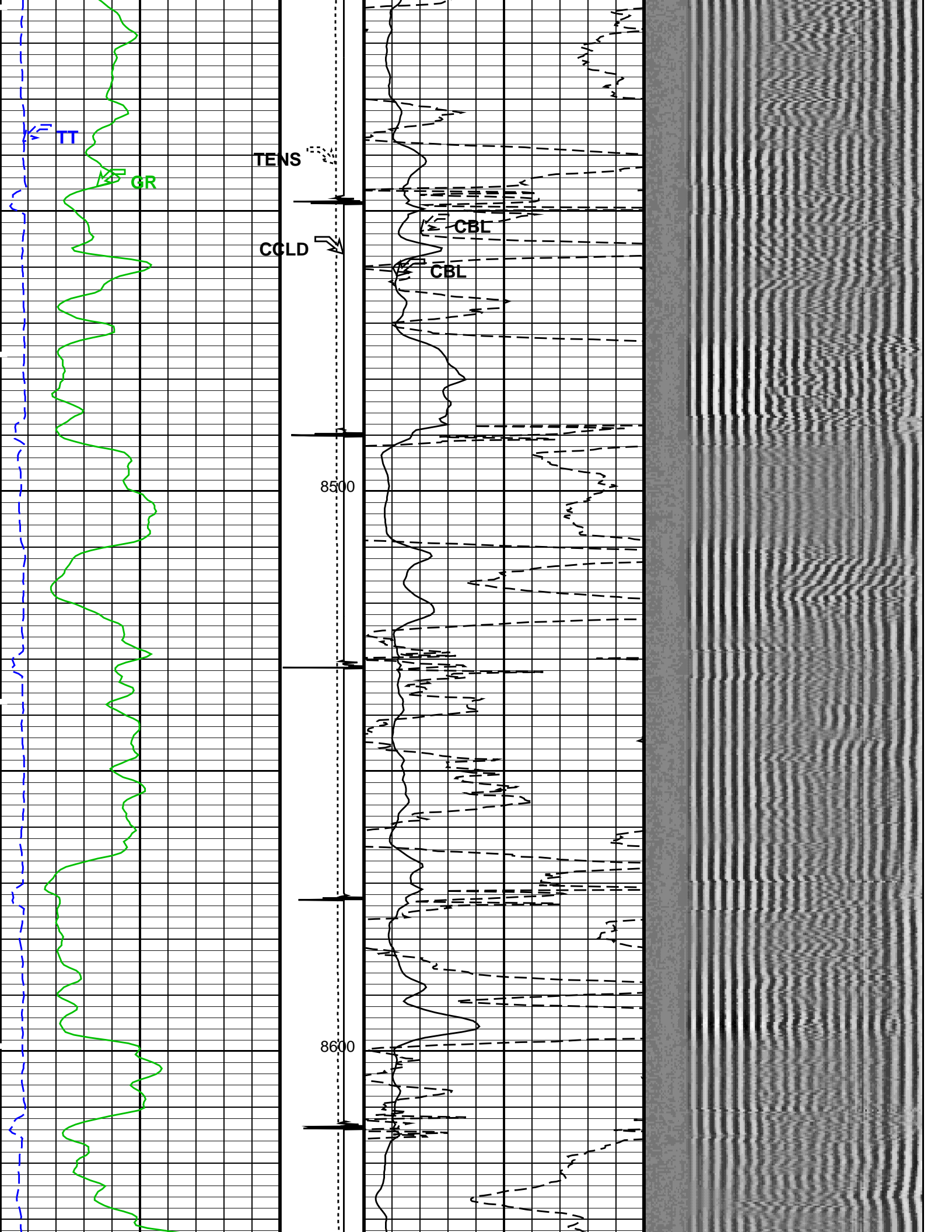
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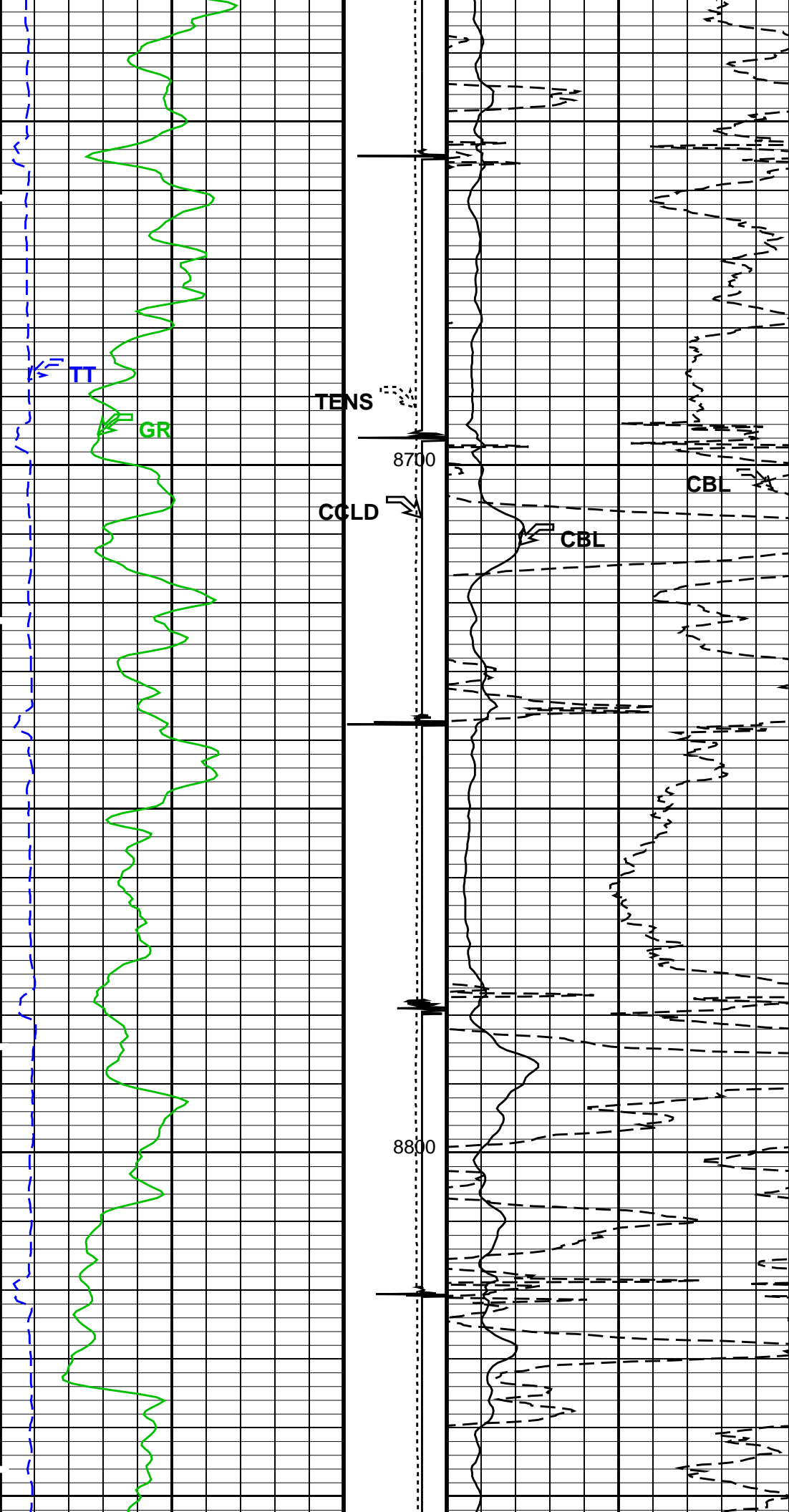
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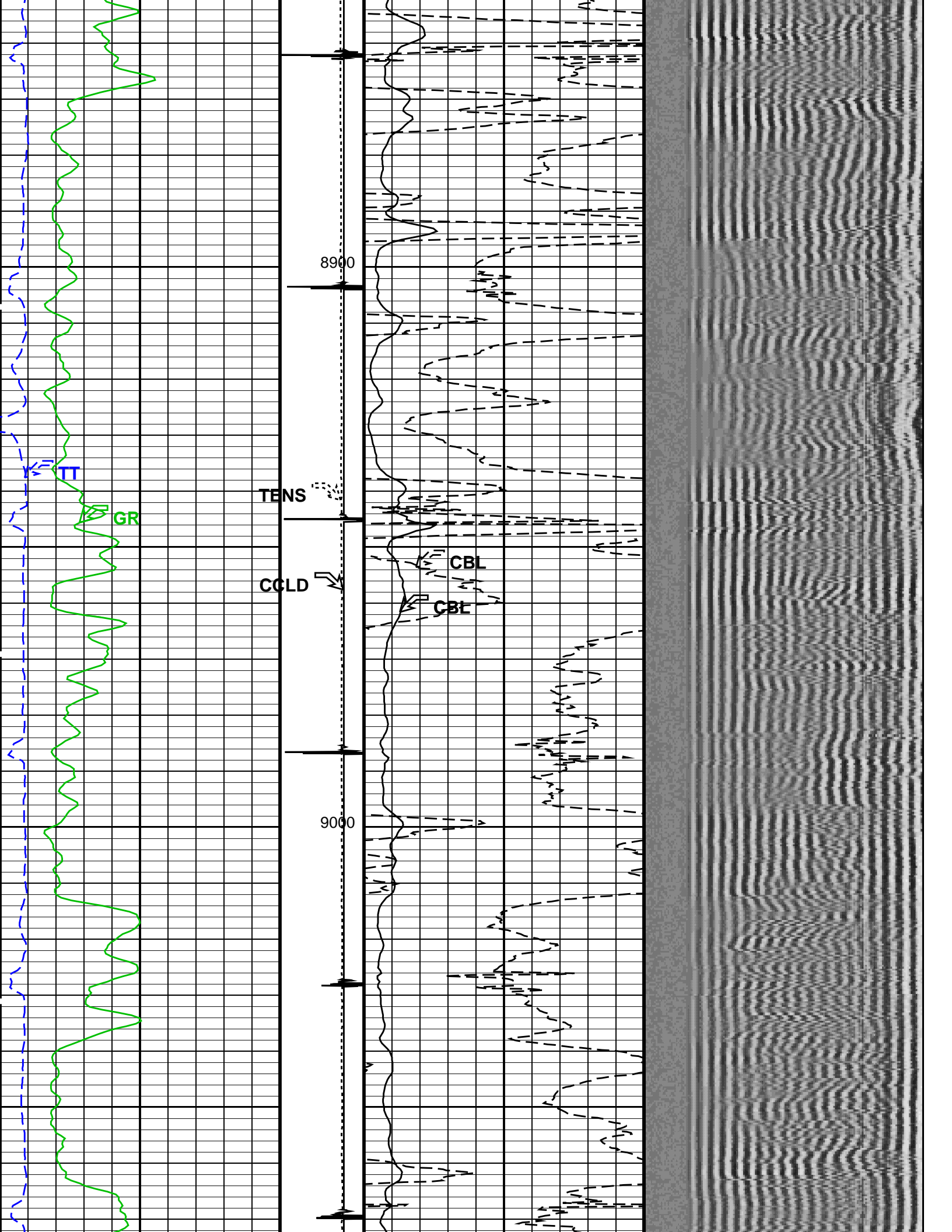
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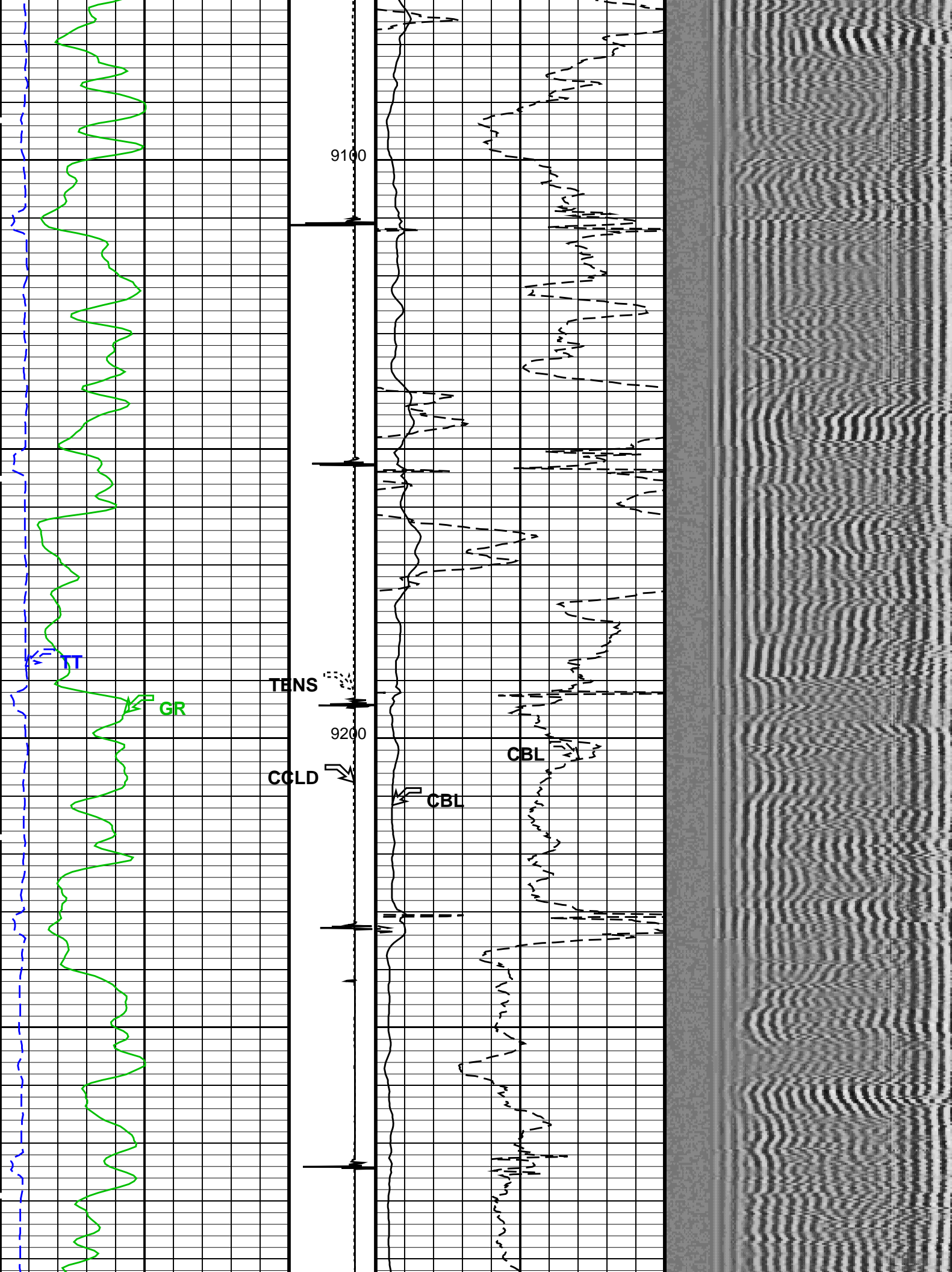


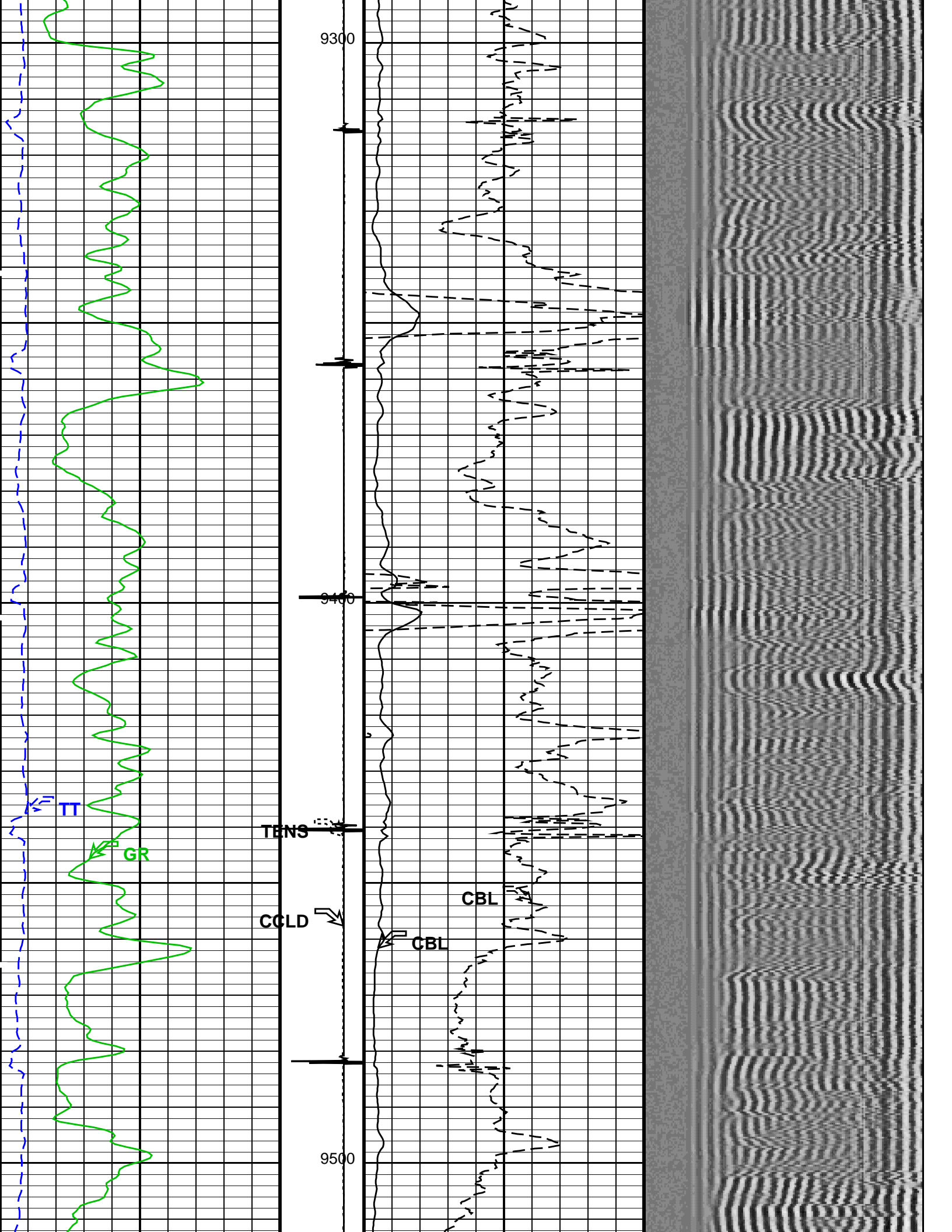


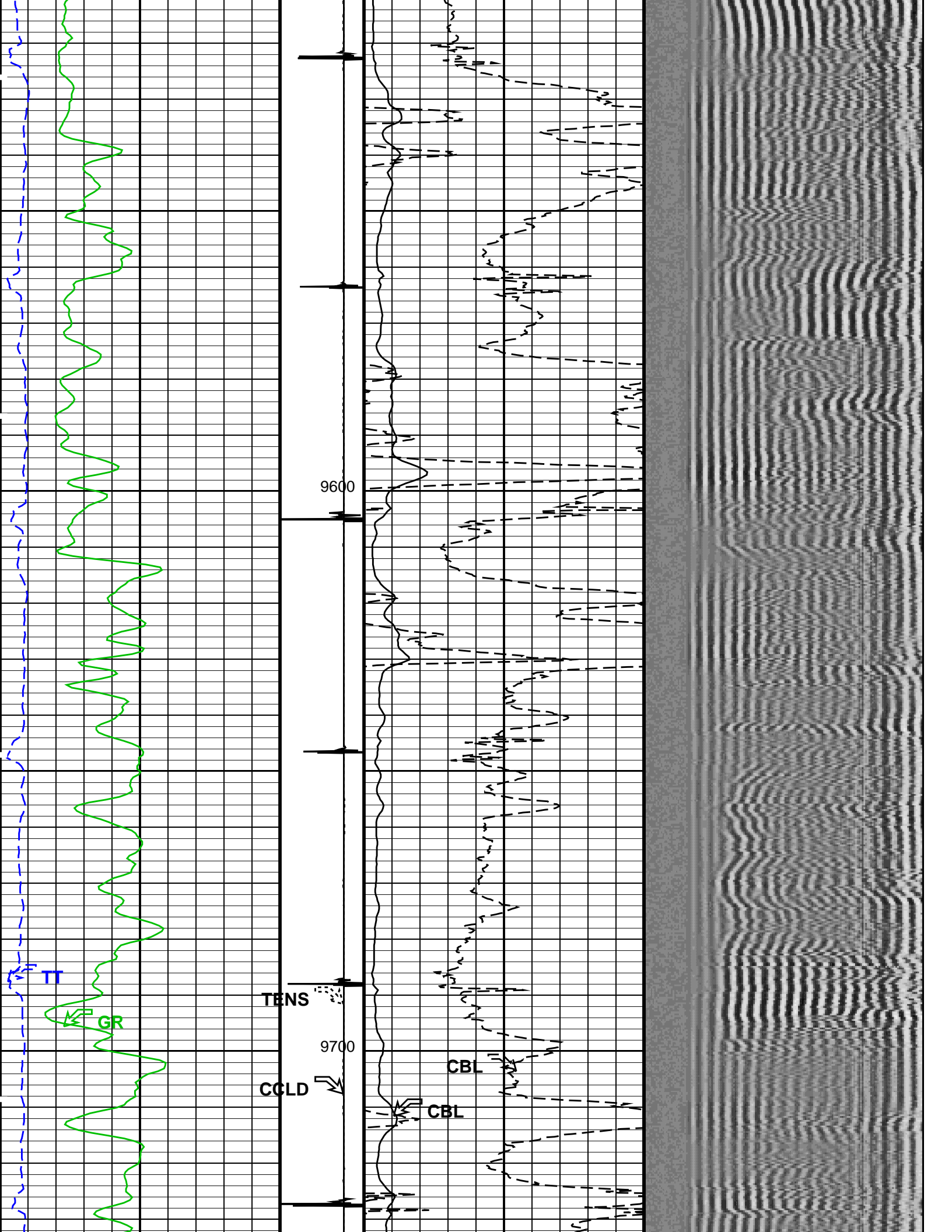


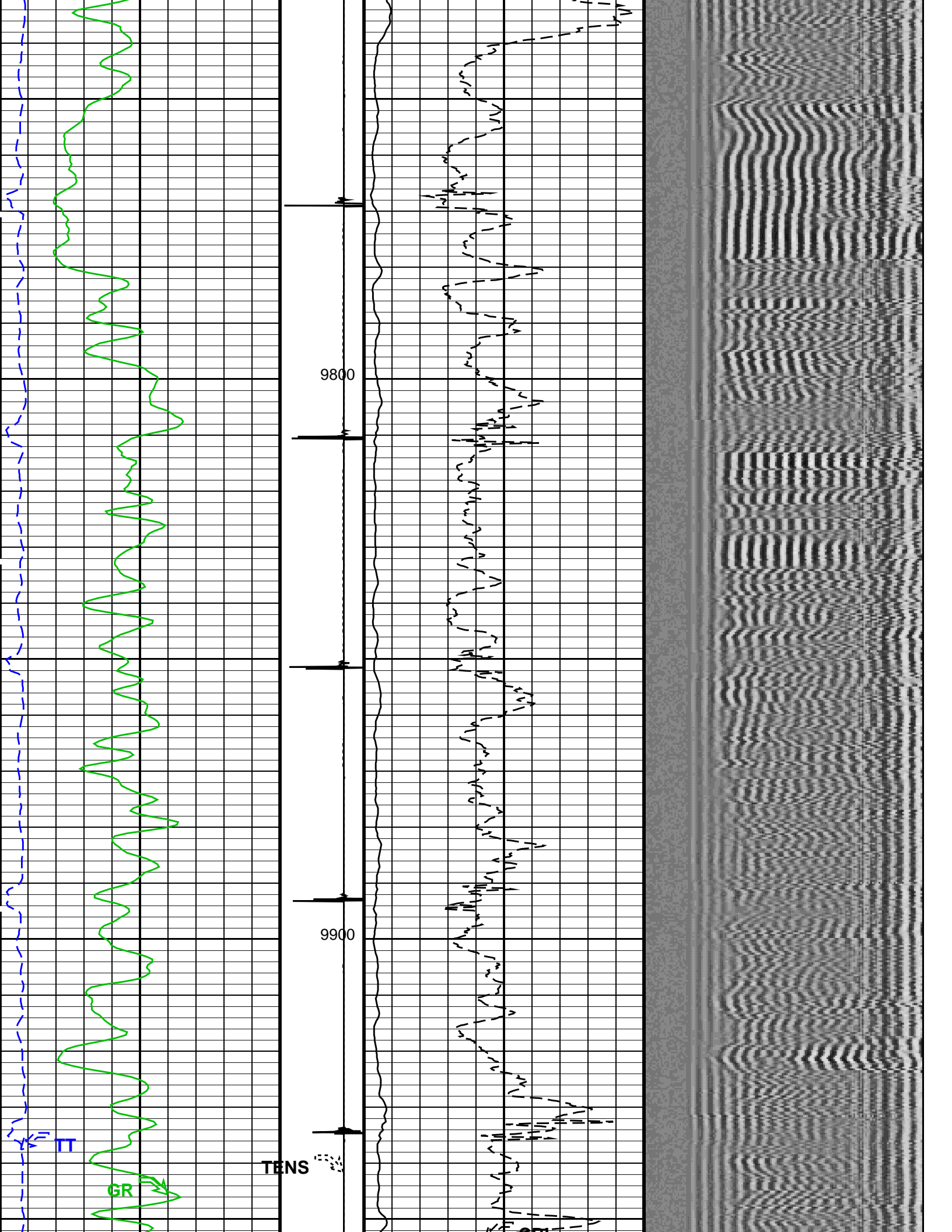


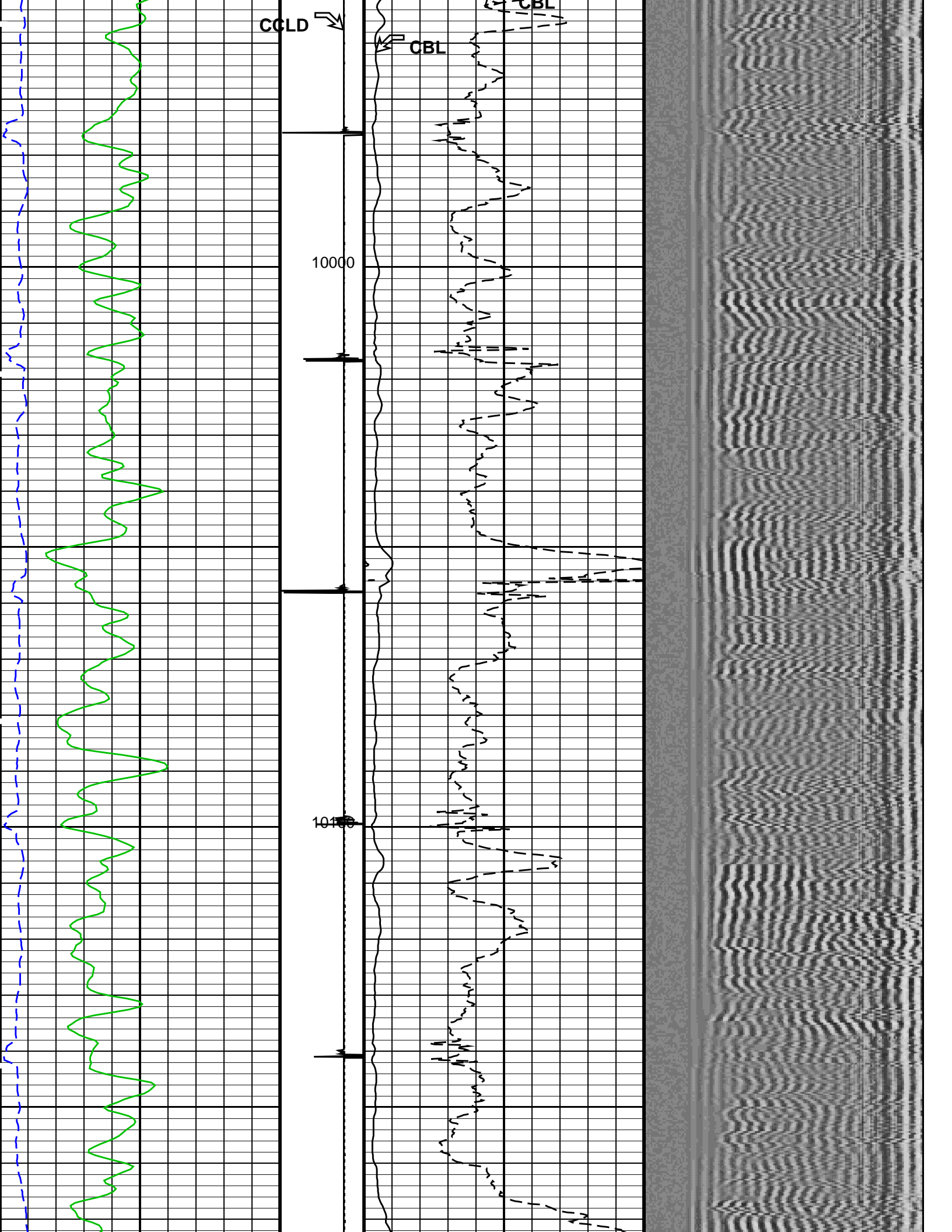


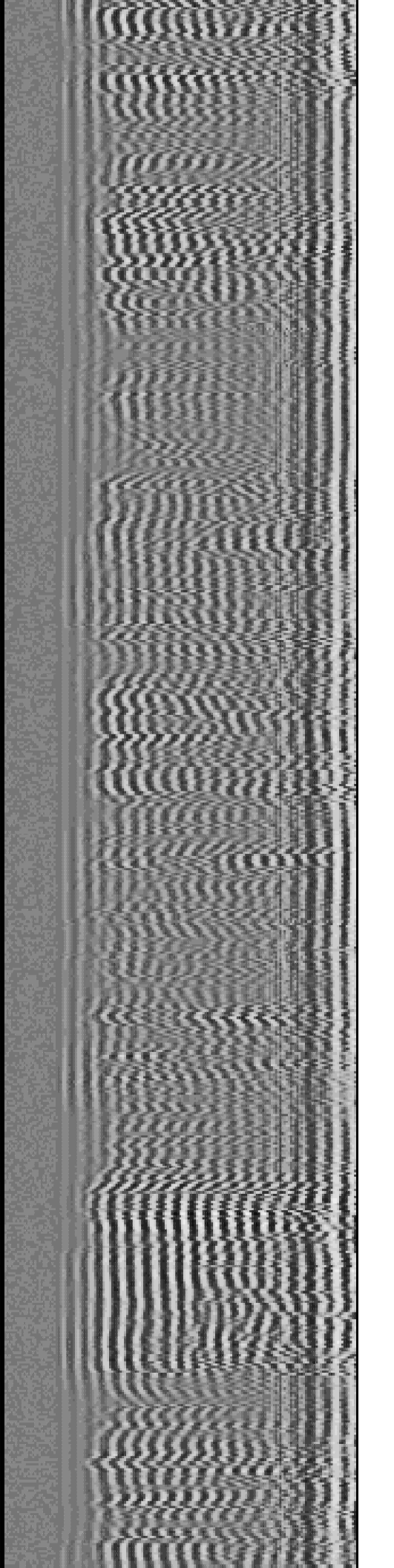
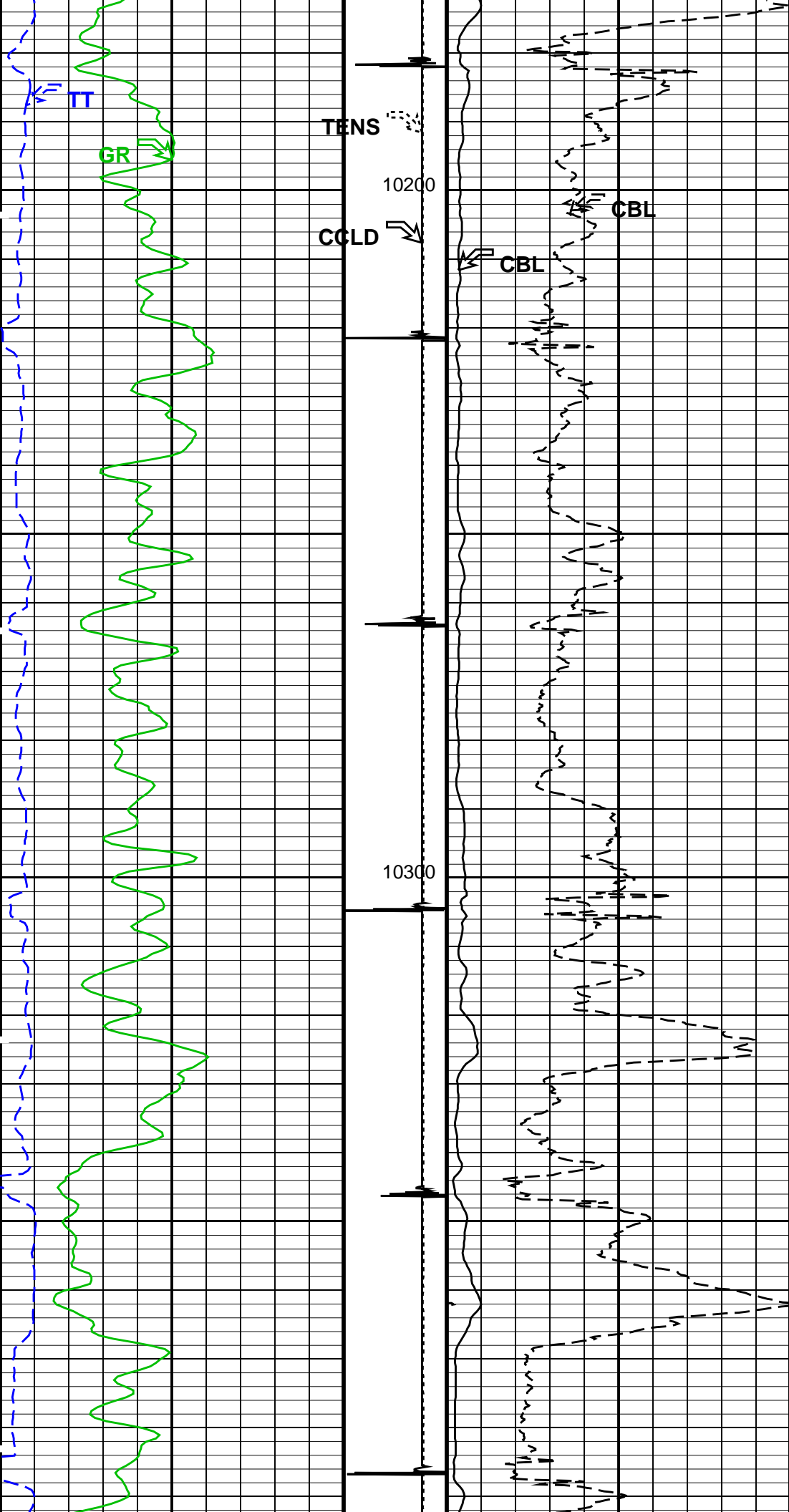


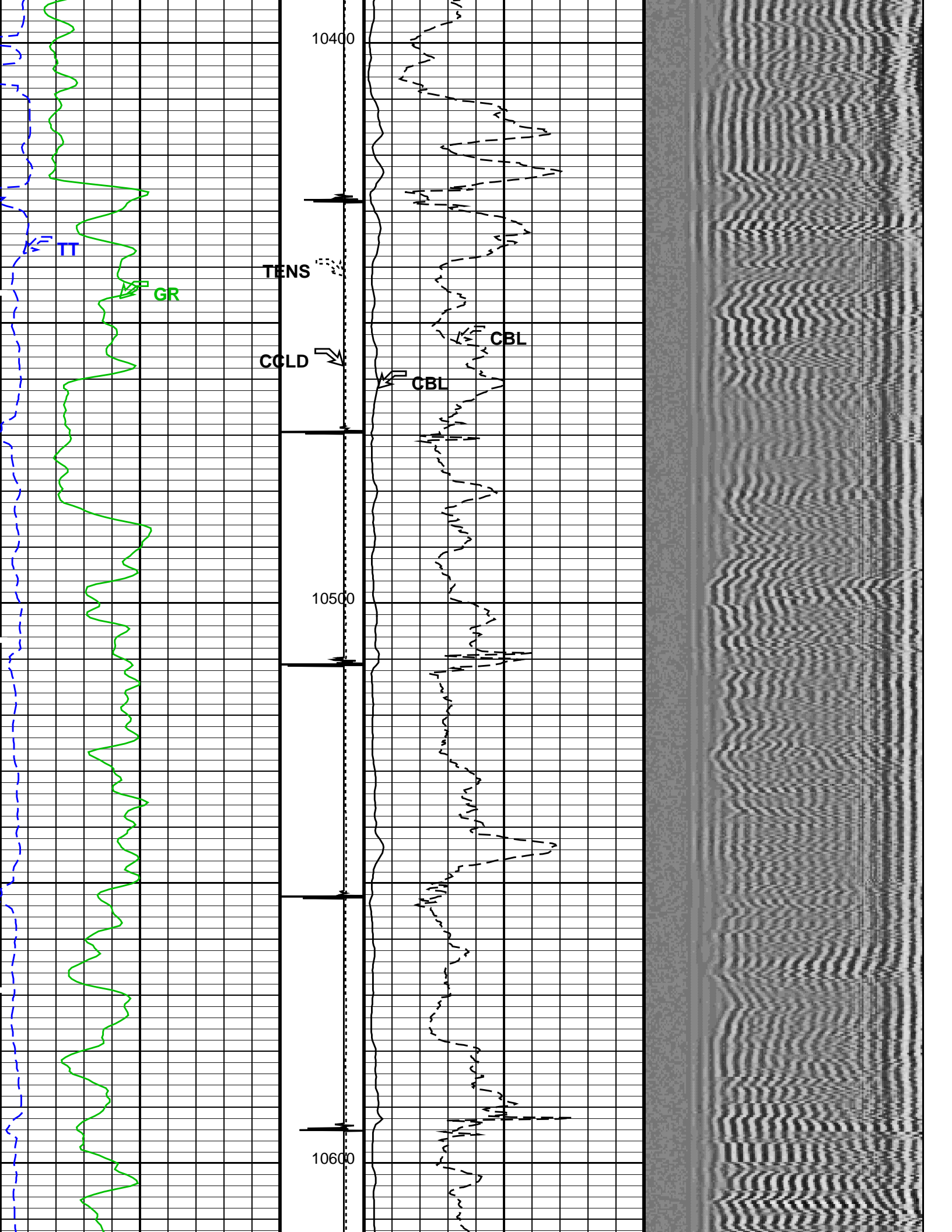


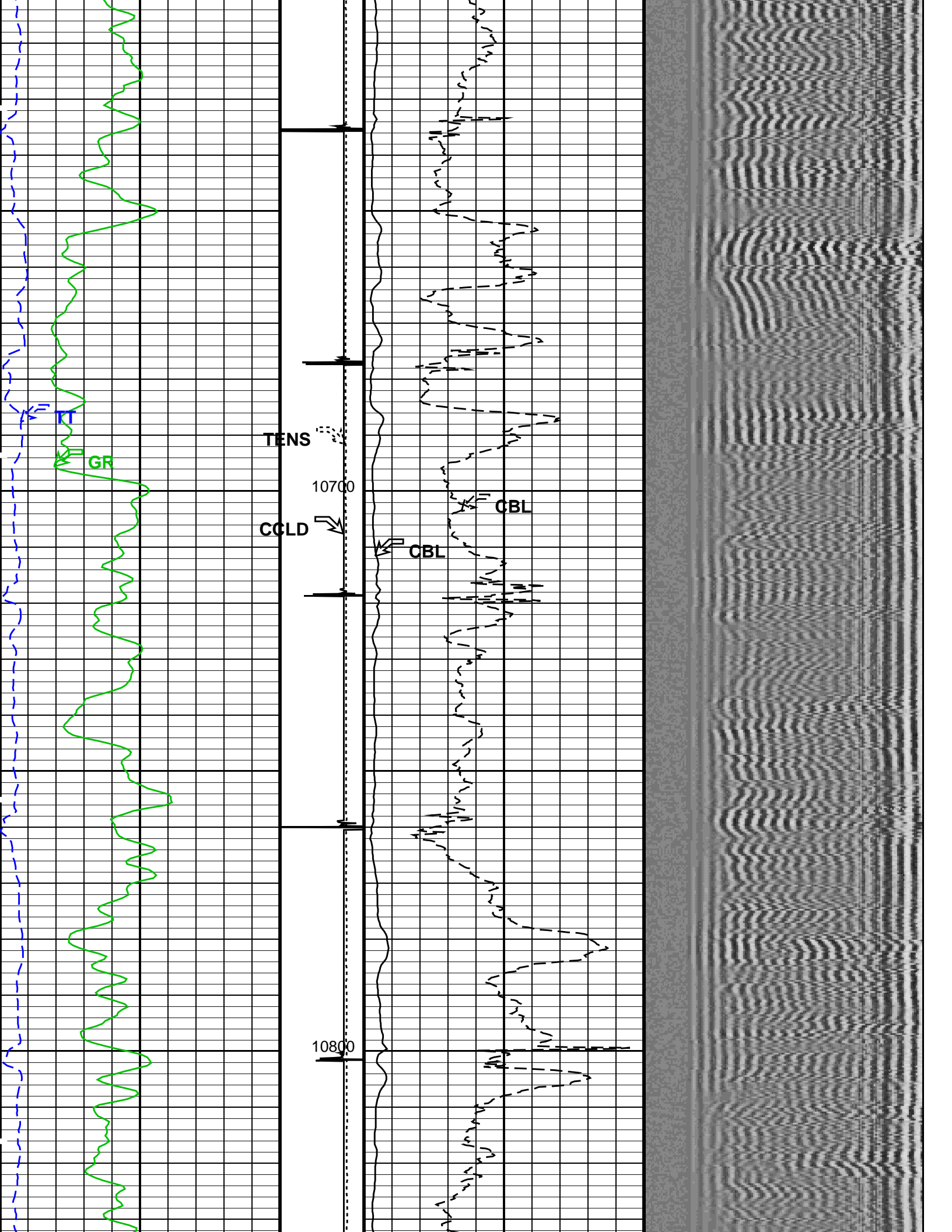


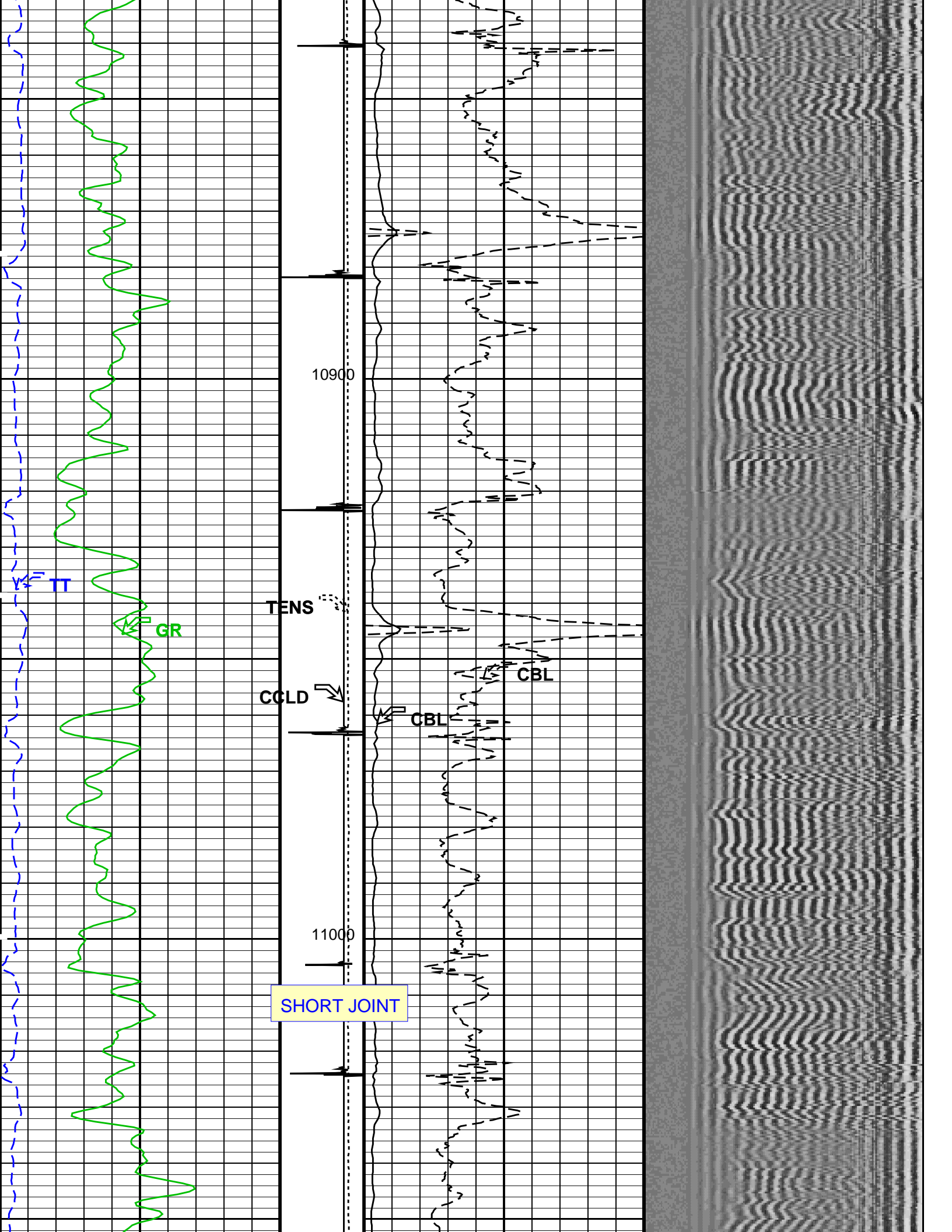


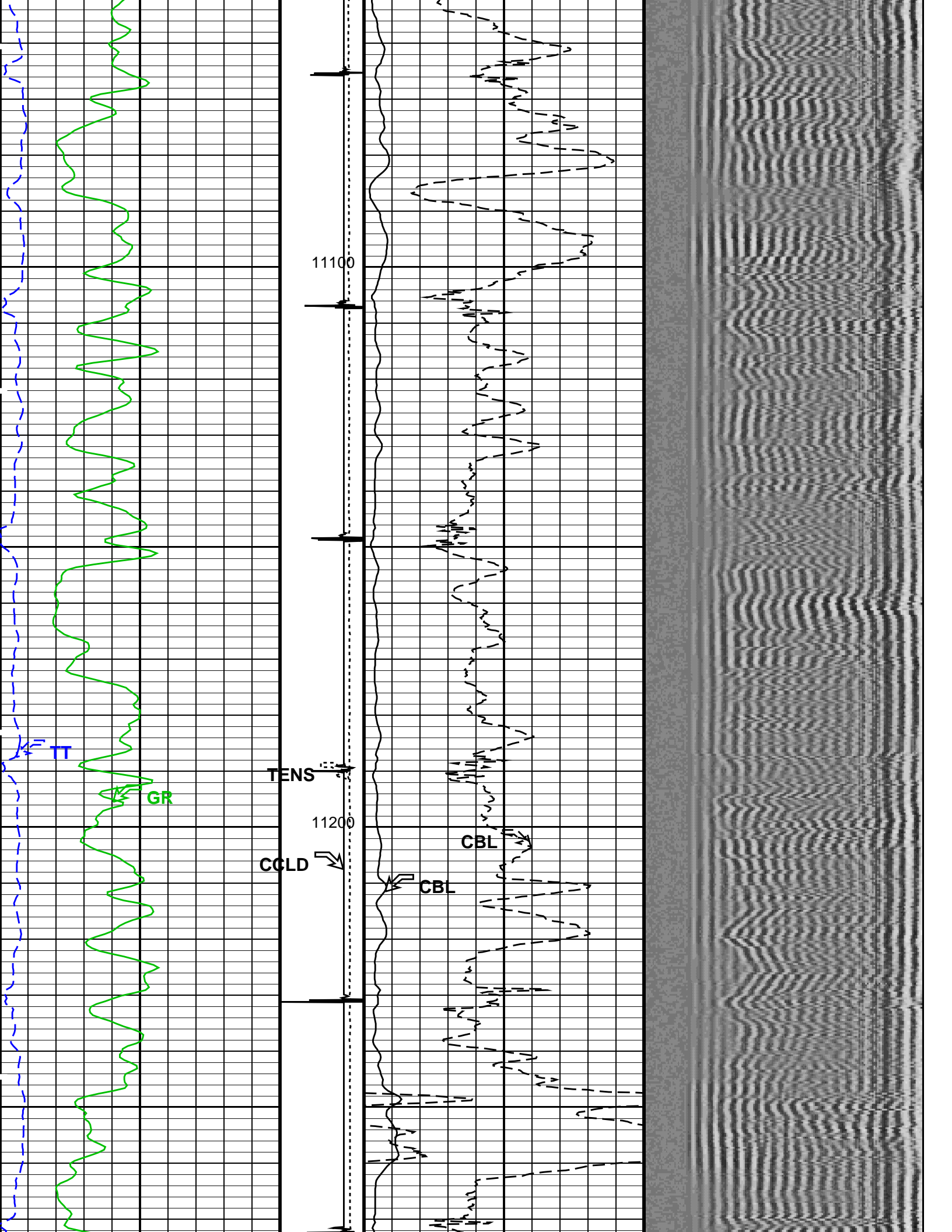


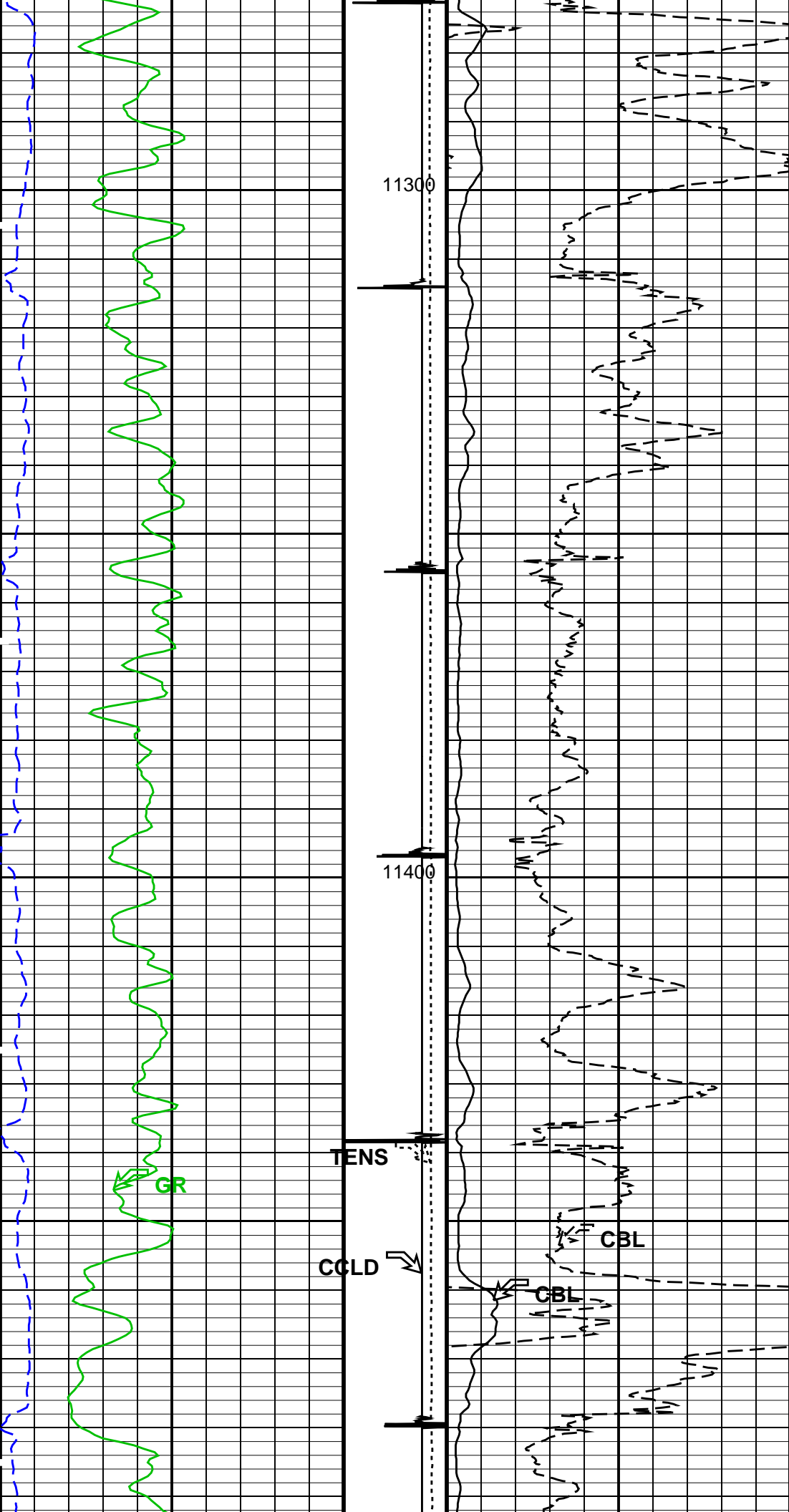


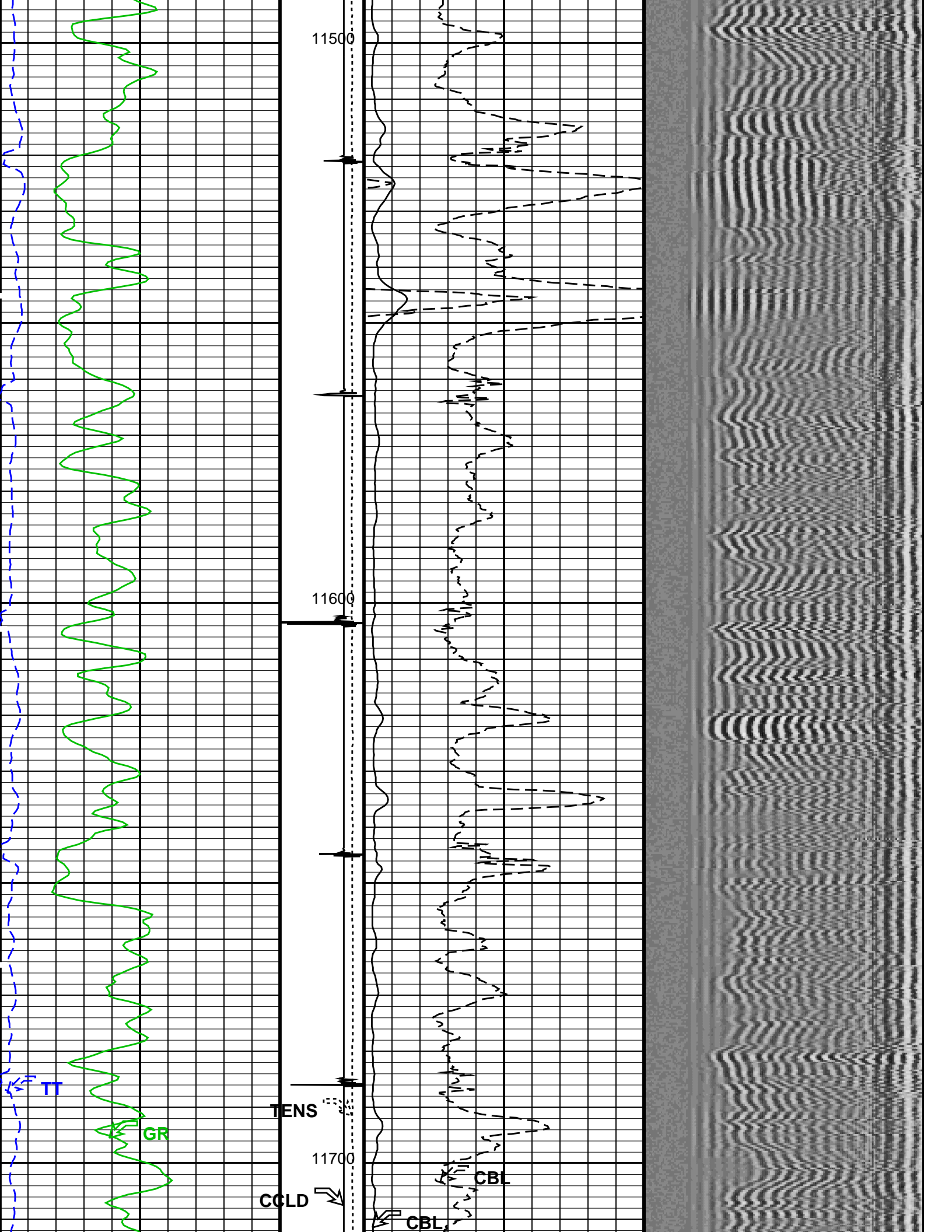


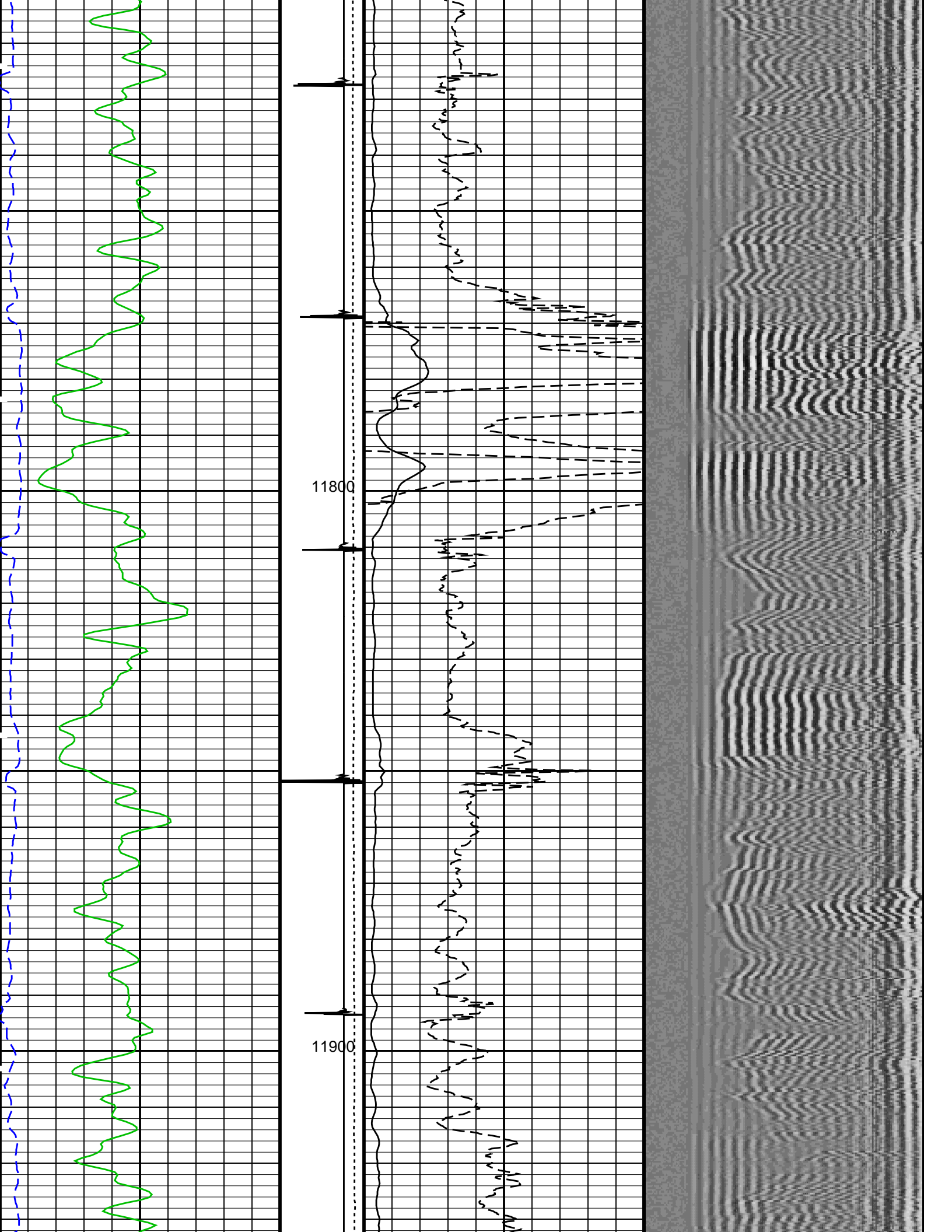


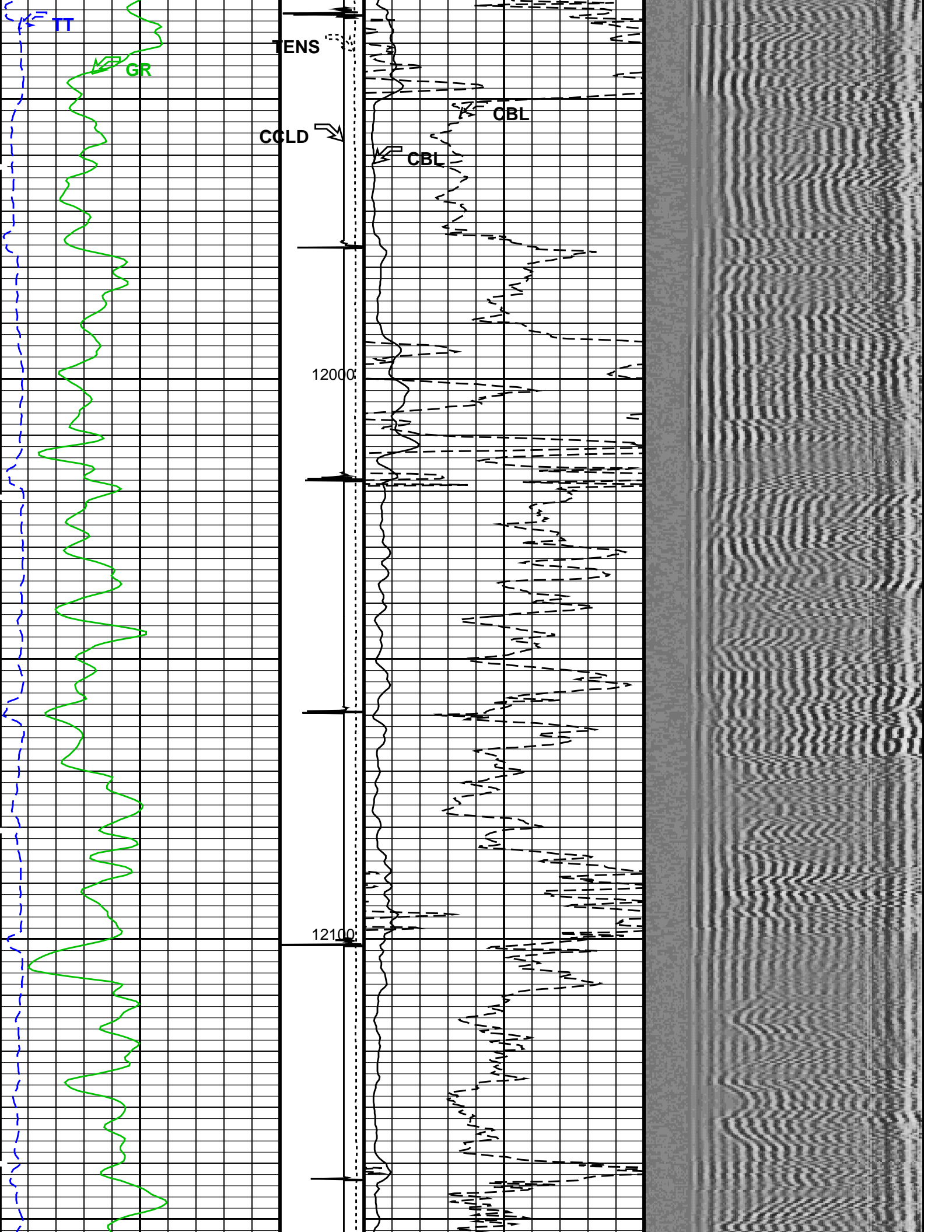












in Free Pipe Section

MAP Minimum Sonic Amplitude

1.55185 MV (80% Cement)

4.32284 MV (100% Cement)

8.10244 MV (80% Cement)

Master Calibration (Normalization)

Before Calibration (Adjustment)

Date of Master Calibration 23-OCT-2012

CBL Correction Factor 0.0696059

CBL Adjustment Factor (CBAF) 0.850000

MAP 1 Correction Factor 0.0973857

MAP Adjustment Factor (MPAF) 1.0

MAP 2 Correction Factor 0.104582

MAP 3 Correction Factor 0.100665

MAP 4 Correction Factor 0.0886387

MAP 5 Correction Factor 0.0999776

MAP 6 Correction Factor 0.110054

MAP 7 Correction Factor 0.113590

MAP 8 Correction Factor 0.0958998

Parameters

DLIS Name

Description

Value

SCMT-CA: Slim Cement Mapping Tool, 1-11/16 OD

BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	224.559	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	338.559	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	45	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.924277	
GOBO	Good Bond	1.55185	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	167.559	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.32284	MV
MSA	Minimum Sonic Amplitude	0.579149	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY

System and Miscellaneous

CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	2.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	12228	FT

Input DLIS Files

DEFAULT	SCMT_HBMS_006LUP	FN:5	PRODUCER	29-Nov-2012 09:25	12286.5 FT	48.0 FT
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Output DLIS Files

DEFAULT	SCMT_HBMS_008PUP	FN:7	PRODUCER	29-Nov-2012 12:55
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Company: ENCANA OIL & GAS (USA) INC

Well: SG 8515D-25 (D36 496)

Input DLIS Files

DEFAULT	SCMT_HBMS_002LUP	FN:1	PRODUCER	29-Nov-2012 08:57	8169.5 FT	7896.2 FT
DEFAULT	SCMT_HBMS_008PUP	FN:7	PRODUCER	29-Nov-2012 12:55	12288.5 FT	50.0 FT

Output DLIS Files

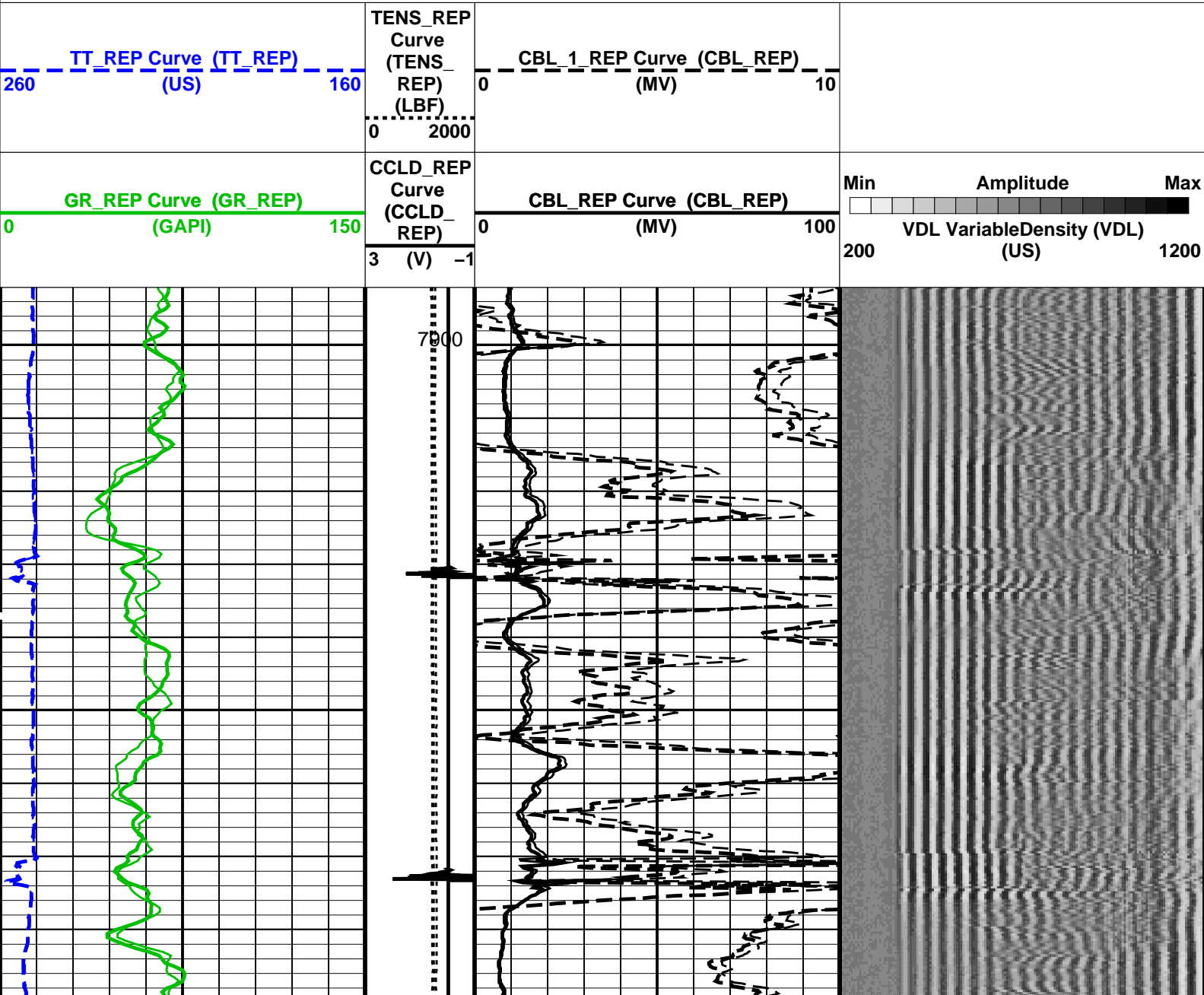
DEFAULT	SCMT_HBMS_009PUP	FN:8	PRODUCER	29-Nov-2012 13:07	8164.5 FT	7891.5 FT
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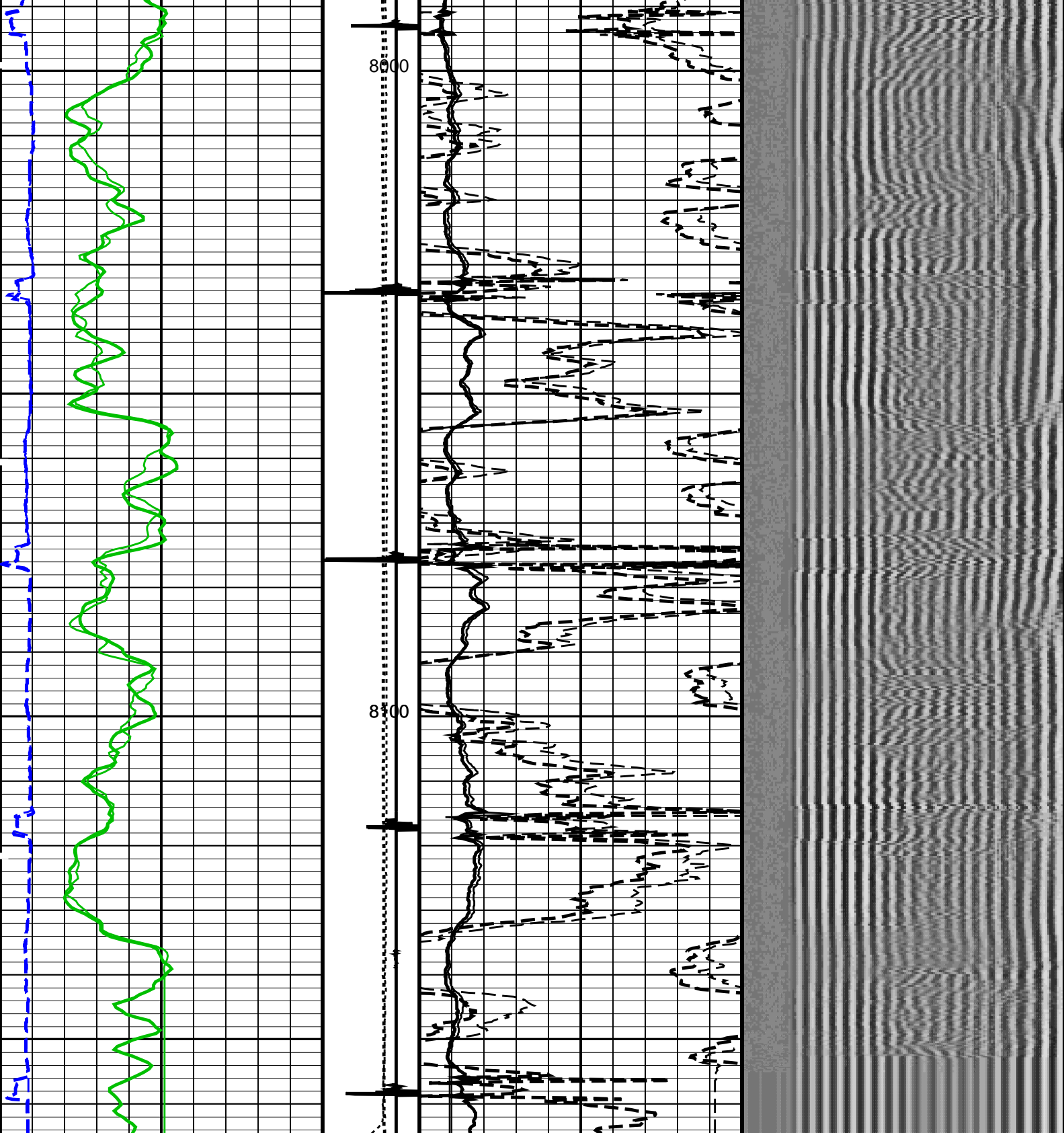
OP System Version: 19C0-187

SCMT-CA	SRPC-5214-H2-2012-OP1!	HBMS-B	SRPC-5214-H2-2012-OP1!
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PIP SUMMARY

Time Mark Every 60 S





<div>GR_REP Curve (GR_REP)</div> <div>(GAPI)</div> <div>0150</div>	<div>CCLD_REP Curve (CCLD_REP)</div> <div>3 (V) -1</div>	<div>CBL_REP Curve (CBL_REP)</div> <div>(MV)</div> <div>0100</div>	<div>MinAmplitudeMax</div> <div><div></div></div> <div>VDL VariableDensity (VDL)</div> <div>(US)</div> <div>2001200</div>
<div>TT_REP Curve (TT_REP)</div> <div>(US)</div> <div>260160</div>	<div>TENS_REP Curve (TENS_REP)</div> <div>(LBF)</div> <div>02000</div>	<div>CBL_1_REP Curve (CBL_REP)</div> <div>(MV)</div> <div>010</div>	

OP System Version: 19C0-187

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

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CA 8140		
Current Casing Size	4.50000 IN		
Casing Weight	11.6000 LB/F		
Expected CBL Amplitude in Free Pipe Section	80 MV	Minimum Sonic Amplitude	0.579149 MV (100% Cement)
			1.55185 MV (80% Cement)
		MAP Minimum Sonic Amplitude	4.32284 MV (100% Cement)
			8.10244 MV (80% Cement)
Master Calibration (Normalization)	Before Calibration (Adjustment)		
Date of Master Calibration	23-OCT-2012		
CBL Correction Factor	0.0696059	CBL Adjustment Factor (CBAF)	0.850000
MAP 1 Correction Factor	0.0973857	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.104582		
MAP 3 Correction Factor	0.100665		
MAP 4 Correction Factor	0.0886387		
MAP 5 Correction Factor	0.0999776		
MAP 6 Correction Factor	0.110054		
MAP 7 Correction Factor	0.113590		
MAP 8 Correction Factor	0.0958998		

Parameters

DLIS Name	Description	Value	
SCMT-CA: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	224.559	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	338.559	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	45	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.924277	
GOBO	Good Bond	1.55185	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	167.559	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.32284	MV
MSA	Minimum Sonic Amplitude	0.579149	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	-5.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT

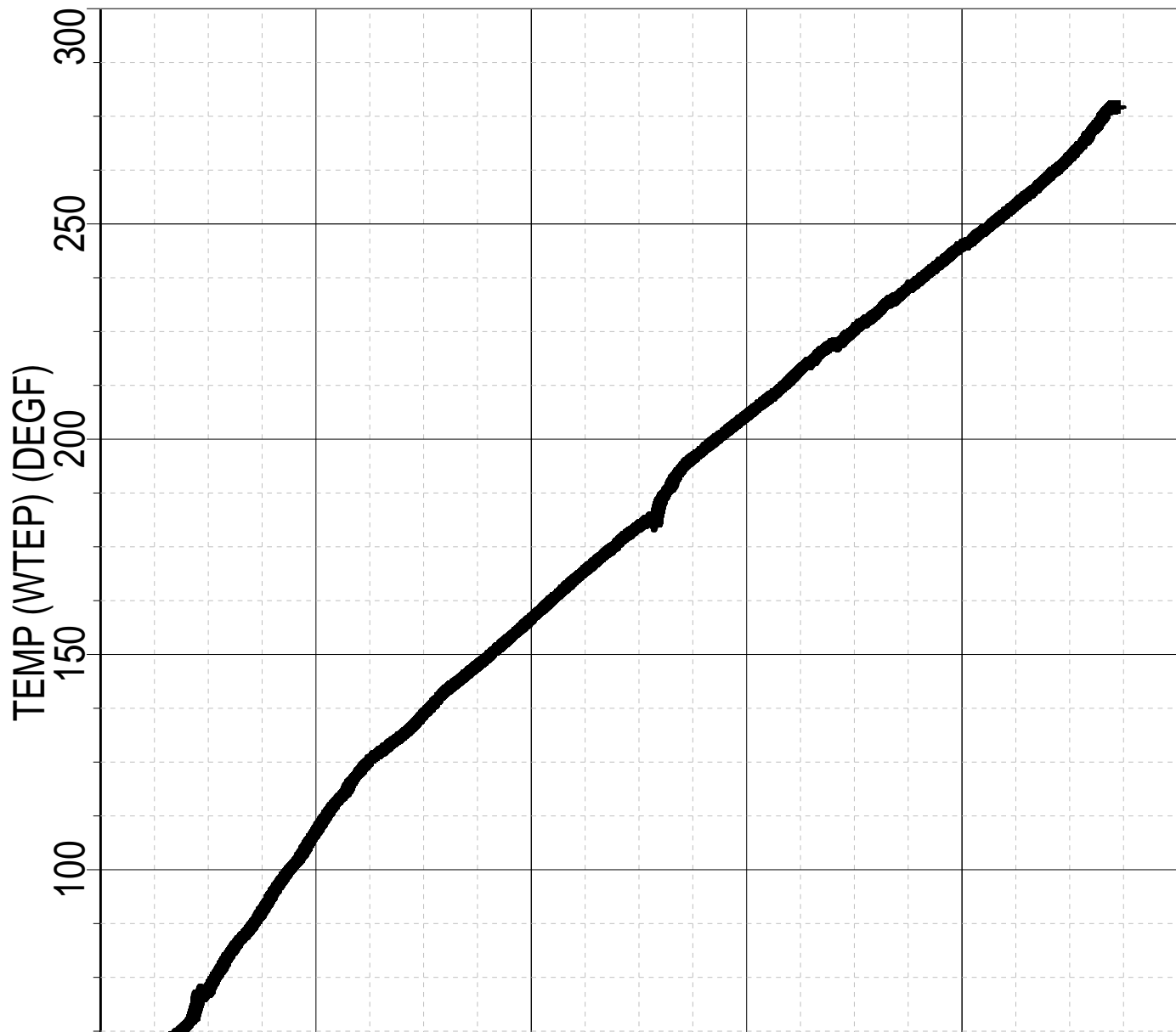
PP TD	Playback Processing Total Depth				RECOMPUTE 12228	FT
Input DLIS Files						
DEFAULT	SCMT_HBMS_002LUP	FN:1	PRODUCER	29-Nov-2012 08:57	8169.5 FT	7896.2 FT
DEFAULT	SCMT_HBMS_008PUP	FN:7	PRODUCER	29-Nov-2012 12:55	12288.5 FT	50.0 FT
Output DLIS Files						
DEFAULT	SCMT_HBMS_009PUP	FN:8	PRODUCER	29-Nov-2012 13:07		

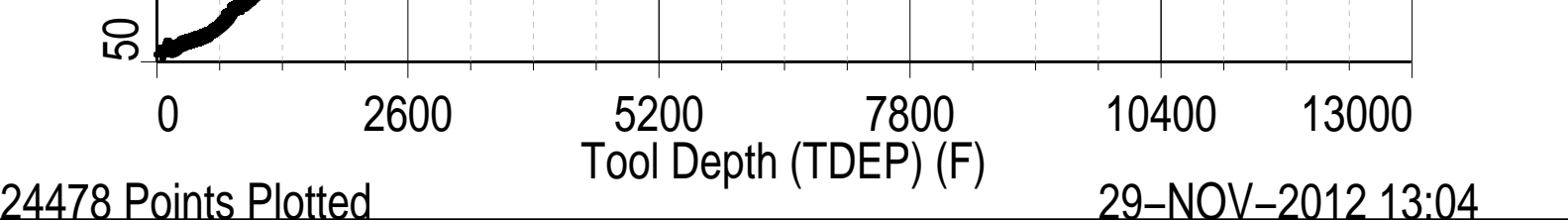


TEMPERATURE PLOT

MAXIS Field Log

Index: 12288.5 – 50.0 FT





HBMS COEFFICIENTS

MAXIS Field Log

Client:	ENCANA OIL & GAS (USA) INC	Tool:	PSP
Field:	GRAND VALLEY	Sub Type:	PBMS
Well:	SG 8515D-25 (D36 496)	Sensor:	CQG
Run date:	29-Nov-2012		

PBMS Quartz Gauge type F

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

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

2880

260408

66

66B8

Pres Coeff

	Fb**0	Fb**1	Fb**2
Fc**0	+.694668499013E+04	+.138137467574E-01	-.206148488488E-06
Fc**1	-.104285125976E+01	-.125721589078E-04	-.971577899959E-10
Fc**2	+.101045175546E-05	+.480801816357E-10	+.889110474366E-15
Fc**3	+.127326781620E-11	+.130693902354E-15	0.0
Fc**4	0.0	0.0	0.0
Fc**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
<hr/>			

Client:	ENCANA OIL & GAS (USA) INC	Tool:	PSP
Field:	GRAND VALLEY	Sub Type:	PBMS
Well:	SG 8515D–25 (D36 496)	Sensor:	WellTemp RTD
Run date:	29–Nov–2012		

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

Client:	ENCANA OIL & GAS (USA) INC	Tool:	PSP
Field:	GRAND VALLEY	Sub Type:	PBMS
Well:	SG 8515D–25 (D36 496)	Sensor:	GR
Run date:	29–Nov–2012		

PBMS Gamma Ray

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

RESISTORS FOR GR SENSOR N.34384,TOOL HBMS-BA2880. SENSOR S/N:

34384

160206

12

D8B5

GR HV Rt

Rt**0

Rt**1

Rt**0

+.200000000000e+04

+.173000000000e+04



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 – CA	8140
Slim Cement Mapping Cartridge	SCMC – CA	8110

Auxiliary Equipment:

Slim Electronics Cartridge Housing	SECH – CA
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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	<div><div></div></div>	1232	Master	<div><div></div></div>	1147
	500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)			500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)	
Phase	MAP 3 Amplitude Plus MV	Value	Phase	MAP 4 Amplitude Plus MV	Value
Master	<div><div></div></div>	1192	Master	<div><div></div></div>	1354
	500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)			500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)	
Phase	MAP 5 Amplitude Plus MV	Value	Phase	MAP 6 Amplitude Plus MV	Value
Master	<div><div></div></div>	1222	Master	<div><div></div></div>	1222
	500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)			500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)	

Master		1200	Master		1090
500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)	500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)
Phase	MAP 7 Amplitude Plus MV	Value	Phase	MAP 8 Amplitude Plus MV	Value
Master		1056	Master		1251
500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)	500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)
Phase	CBL Amplitude Plus MV	Value			
Master		1379			
1000 (Minimum)	1350 (Nominal)	1700 (Maximum)			
Master: 23-Oct-2012 16:09					

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

Schlumberger

Well: **SG 8515D-25 (D36 496)**

Field: **GRAND VALLEY**

County: **GARFIELD**

State: **COLORADO**

SLIM CEMENT MAPPING LOG

CBL-VDL

GR-CCL