

Schlumberger

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8512D-36 (D36 496)

Field: STORY GULCH

County: GARFIELD State: COLORADO

County: GARFIELD		SLIM CEMENT MAPPING LOG CBL-VDL GR-CCL			
Field: STORY GULCH					
Location: SHL: 417 FNL & 1042 FWL					
Well: SG 8512D-36 (D36 496)					
Company: ENCANA OIL & GAS (USA) INC					
LOCATION		SHL: 417 FNL & 1042 FWL		Elev.: K.B. 8320.00 ft	
		BHL: 1688 FSL & 679 FWL		G.L. 8290.00 ft	
				D.F. 8319.00 ft	
Permanent Datum:		GROUND LEVEL		Elev.: 8290.00 ft	
Log Measured From:		KELLY BUSHING		30.00 ft above Perm. Datum	
Drilling Measured From:		KELLY BUSHING			
API Serial No.		Section	Township	Range	
05-045-20922-00		36	4S	96W	
Logging Date		12-Jun-2013			
Run Number		1			
Depth Driller		12485 ft			
Schlumberger Depth		12415 ft			
Bottom Log Interval		12406 ft			
Top Log Interval		70 ft			
Casing Fluid Type		FRESH WATER			
Salinity					
Density		8.4 lbm/gal			
Fluid Level		70 ft			
BIT/CASING/TUBING STRING					
Bit Size		7.875 in			
From		9174 ft			
To		12485 ft			
Casing/Tubing Size		4.500 in			
Weight		11.6 lbm/ft			
Grade		P-110			
From		30 ft			
To		12460 ft			
Maximum Recorded Temperatures		283 degF			
Logger On Bottom		12-Jun-2013		11:00	
Unit Number		391		GRAND JUNCTION	
Recorded By		KIRSTIE BUNTING			
Witnessed By		JOHN MILLER			

PVT DATA					Run 1	Run 2	Run
Oil Density							
Water Salinity							
Gas Gravity							
Bo							
Bw							
1/Bq							
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							
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: 3-JUN-2013 9:46:48

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:	4-24-2012	Calibration Date:	6-3-2013	Length:	19500 FT
Calibrator Serial Number:		Calibrator Serial Number:	174878	Conveyance Method: Wireline Rig Type: LAND	
Calibration Cable Type:	1-25P	Number of Calibration Points:	10		
Wheel Correction 1:	-3	Calibration RMS:	2		
Wheel Correction 2:	-4	Calibration Peak Error:	6		

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 PROCEDURES USED
2. IDW USED AS PRIMARY DEPTH CONTROL
3. SWPT DRUM COUNTER USED AS SECONDARY DEPTH CONTROL
- 4.
- 5.
- 6.

DISCLAIMER

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

OTHER SERVICES1

OS1: RESERVOIR SATURATION

OS2: LOG

OS3: SIGMA MODE

OS4:

OS5:

OTHER SERVICES2

OS1:

OS2:

OS3:

OS4:

OS5:

REMARKS: RUN NUMBER 1

FIRST RUN IN HOLE CORRELATED TO DOWN LOG

TOOL RAN AS PER TOOL SKETCH

MAXIMUM RECORDED TEMPERATURE= 283 DEGF














MAXIMUM RECORDED PRESSURE= 4949 PSIA

SHORT JOINTS= 7983' / 10955'

REMARKS: RUN NUMBER 2

ENTRANCE TIME= 10:30					
LOGGER ON BOTTOM= 11:00					
EXIT TIME= 14:30					
MAIN PASS LOGGED WITH ZERO SURFACE PRESSURE					
EXPECTED CBL AMPLITUDE IN FREE PIPE = 80MV					
THANK YOU FOR CHOOSING E&P WIRELINE, A SCHLUMBERGER COMPANY					
YOUR CREW: K. BUNTING W AZIZ K JOHNS					
<div> <div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div> <div>CGF9-00077</div> <div>19C0-187</div> <div>70 ft</div> </div> </div>			<div> <div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> </div>		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT	DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT			
WITM-A PSC_16MHZ			
DOWNHOLE EQUIPMENT			
MH-22			63.9
MH-22	Detail MT		
AH-38	TelStatus		62.4
PSPT	CTEM		62.1
PSC-A 928			
PSPT-B 928			
PSTC-A	GR		58.4
PBMS-B			
CQG_F_Mano	Well Temp		55.3
RTD_Thermometer	CQG Manom		55.0
GR	CCL		54.6
CCL	PBMS PSTC		53.8
RST-CF			53.8
UDFH-RSCH-A			
RSC-E			
UDFH-RSS-A			
UDFH-RSXH-A			
RSX-E			
	RSC-A Far		41.7
	RSC-A PNG		
	RSC-A Nea		
	RSX-A PNG		41.2

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

20.2

DT 11.1
CBL5 DTSC 9.6
CBL3 8.6
MAP 8.1
AUX 7.1

AH-YYY

HV
Tension SCMT 0.0
TOOL ZERO

0.2

MAXIMUM STRING DIAMETER 2.13 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

MAIN PASS CBL VDL

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8512D-36 (D36 496)

Input DLIS Files

DEFAULT	SCMT_RST_PSP_011LUP	FN:10	PRODUCER	12-Jun-2013 11:00	12423.0 FT	3.5 FT
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Output DLIS Files

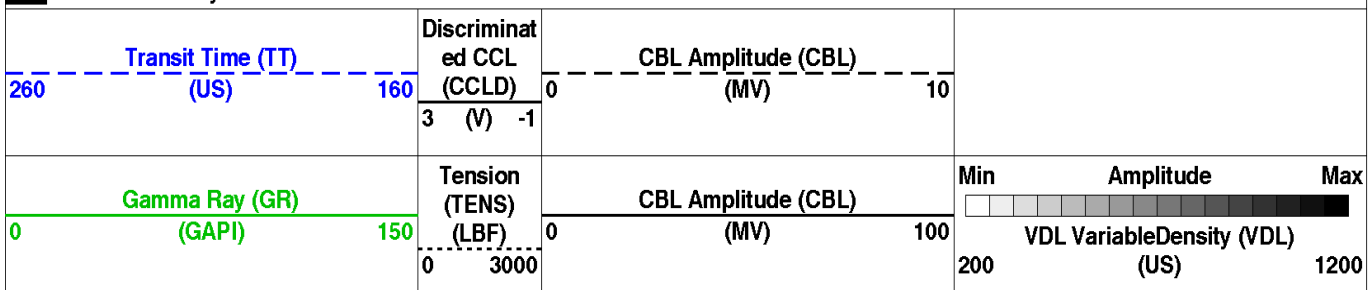
DEFAULT	SCMT_RST_PSP_014PUP	FN:13	PRODUCER	12-Jun-2013 14:21	12430.0 FT	-52.0 FT
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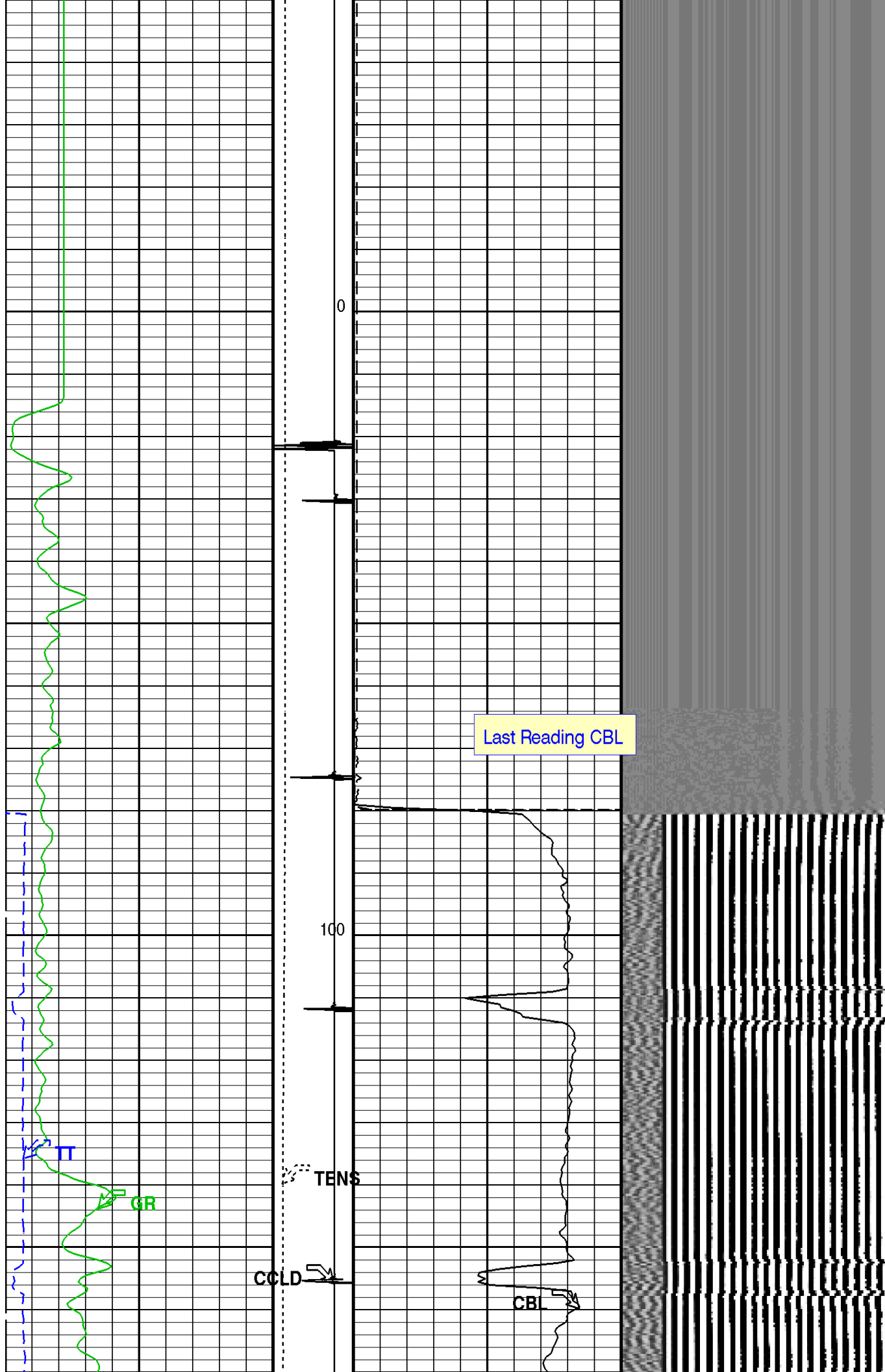
OP System Version: 19C0-187

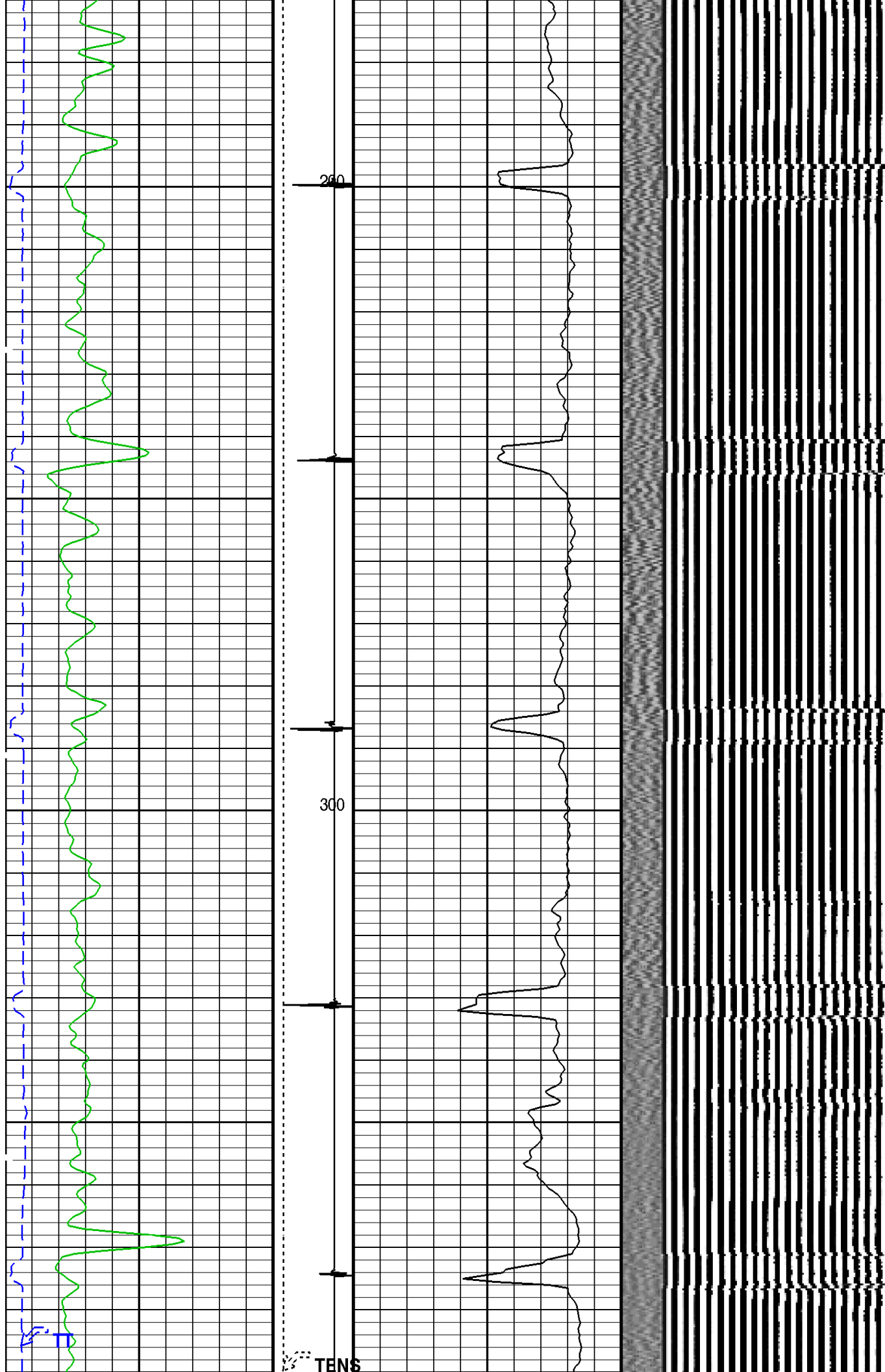
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PSPT	SRPC-5214-H2-2012-OP19		

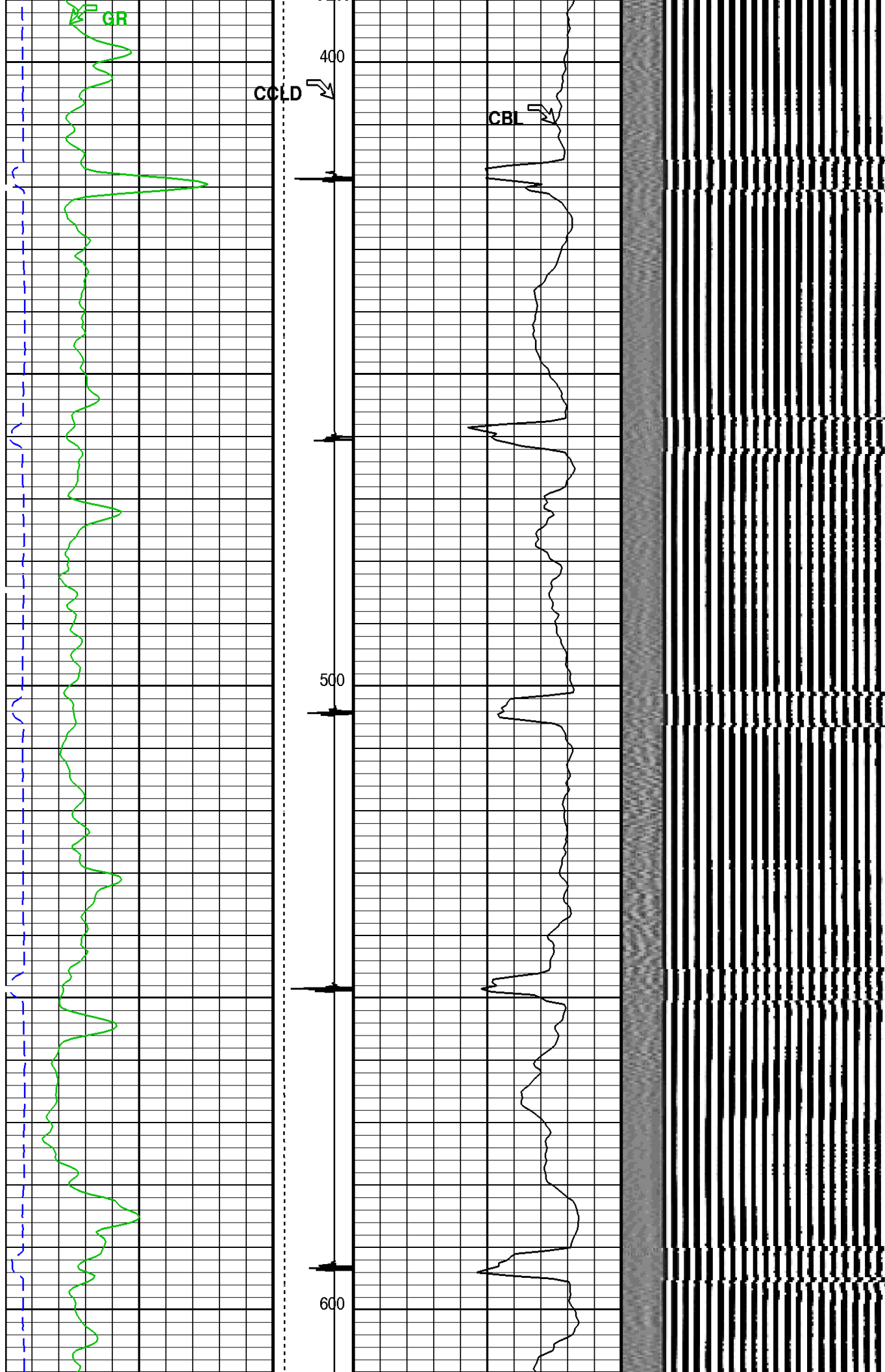
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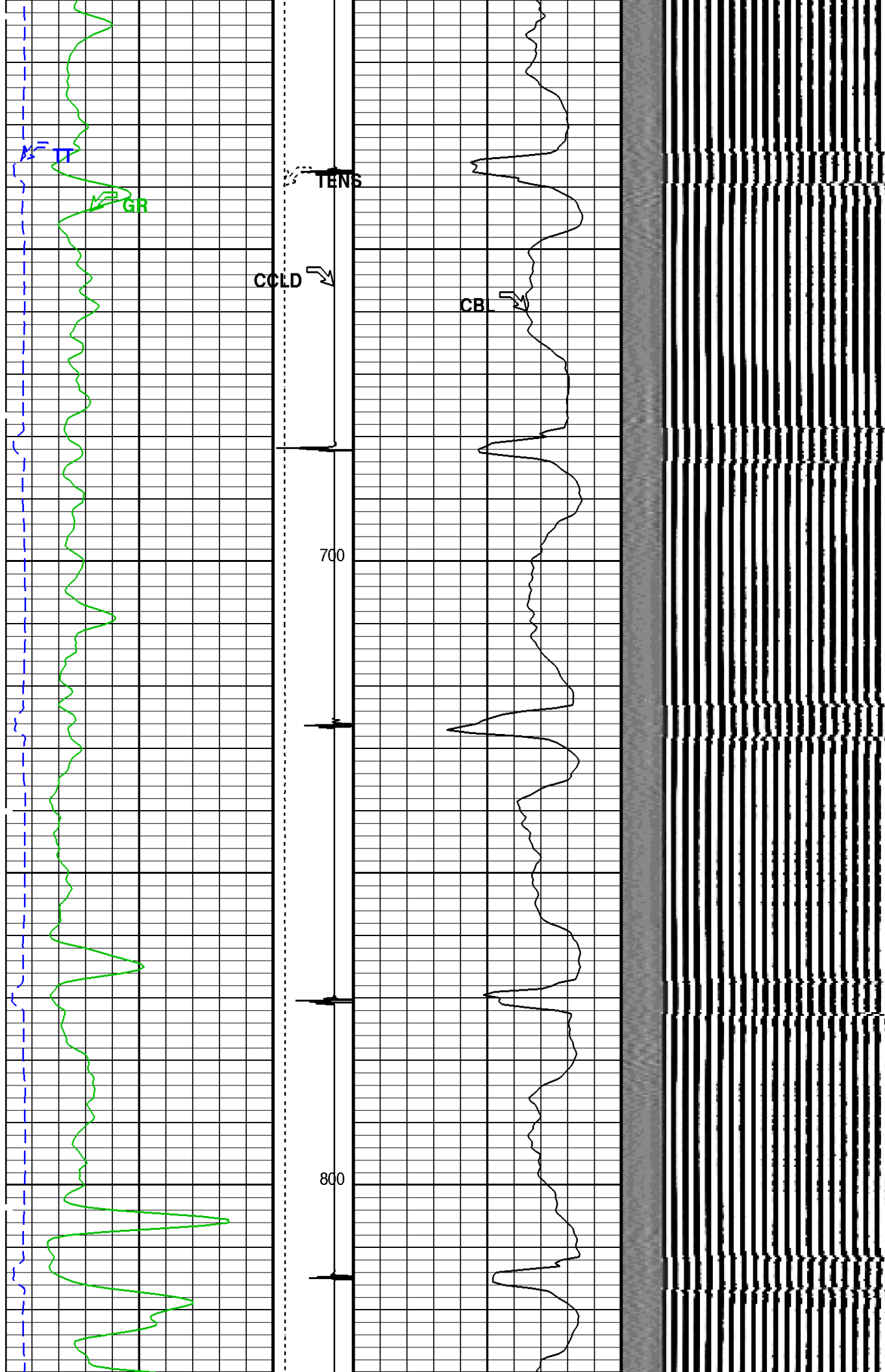
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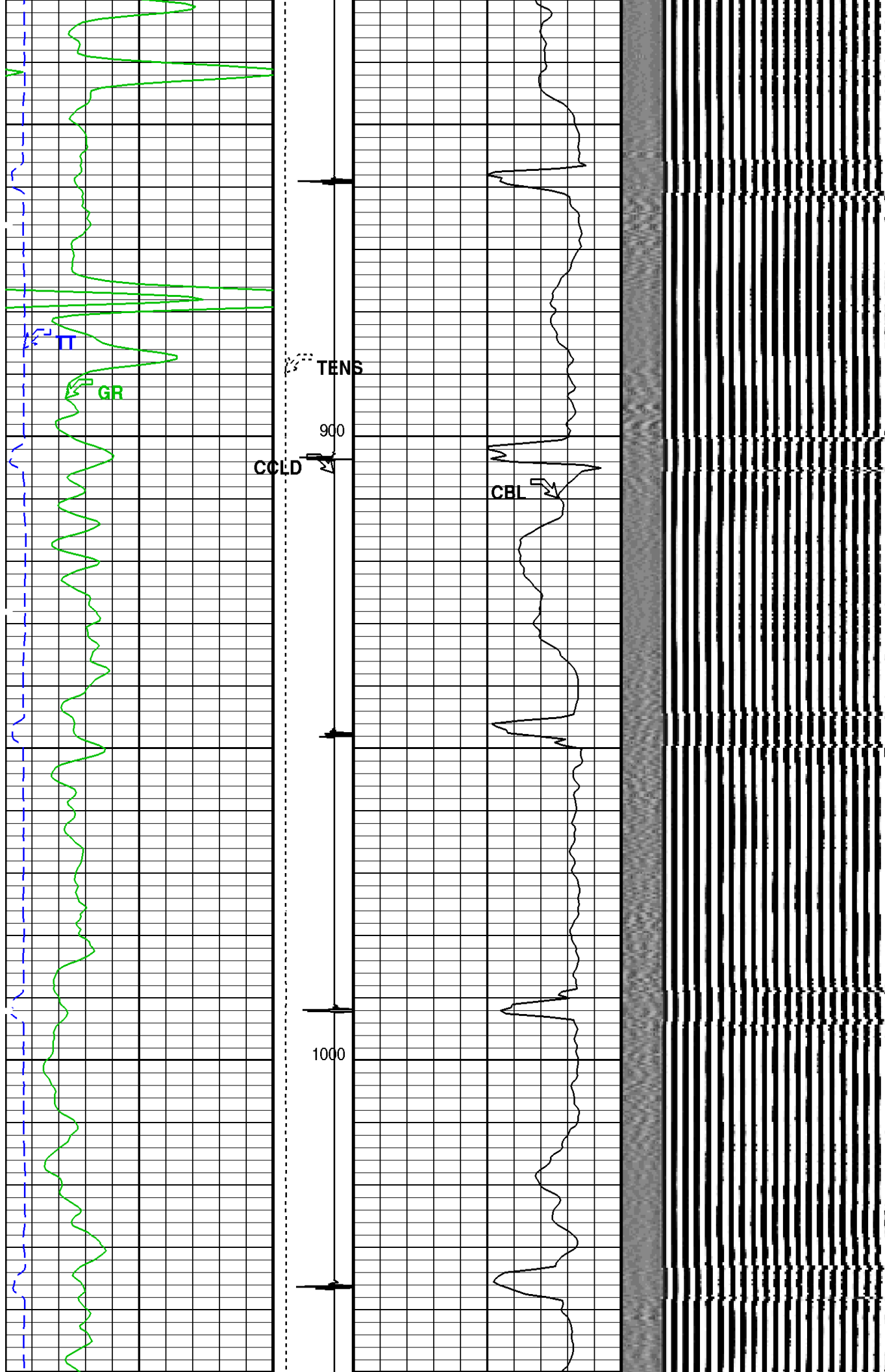


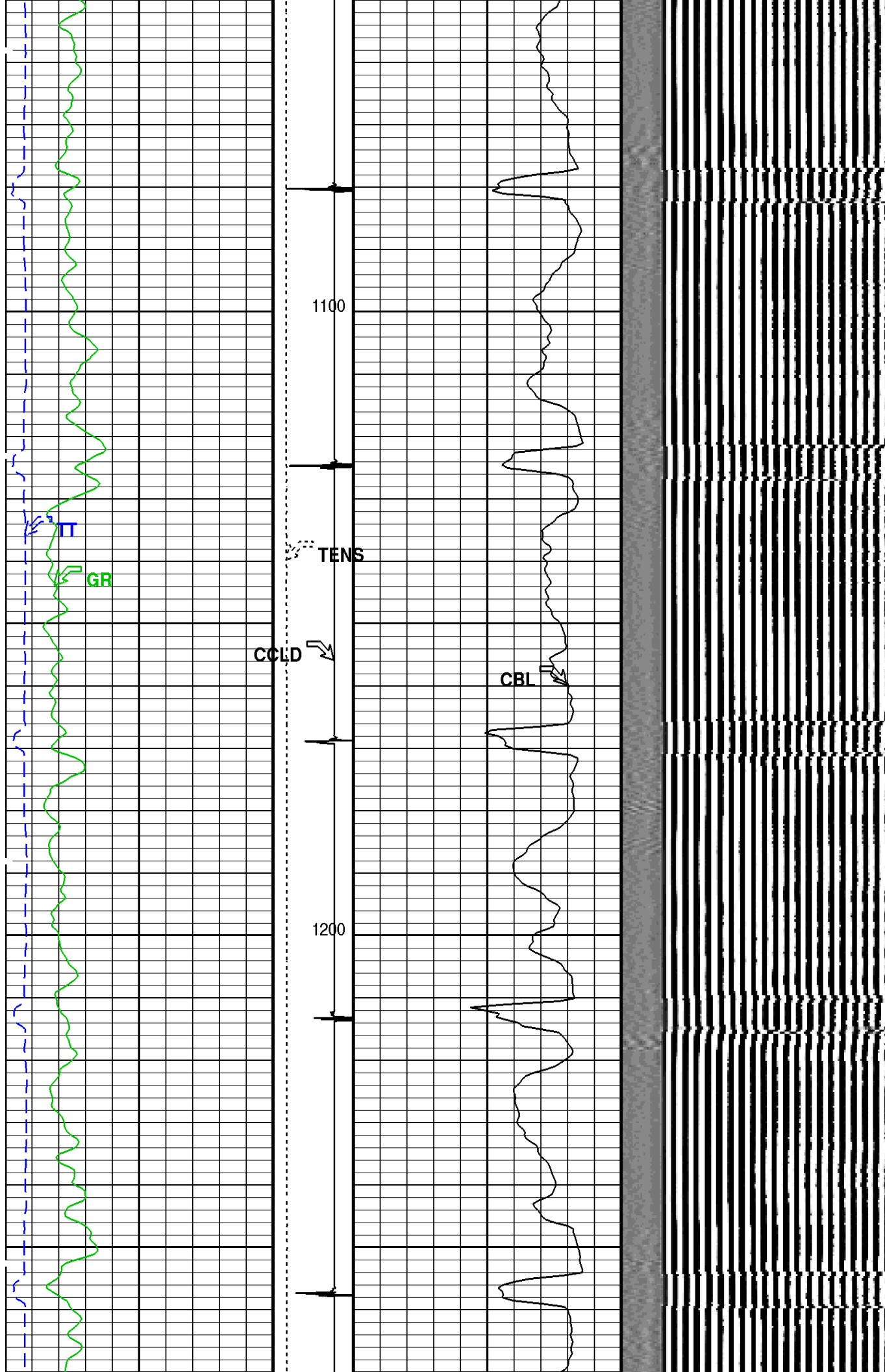


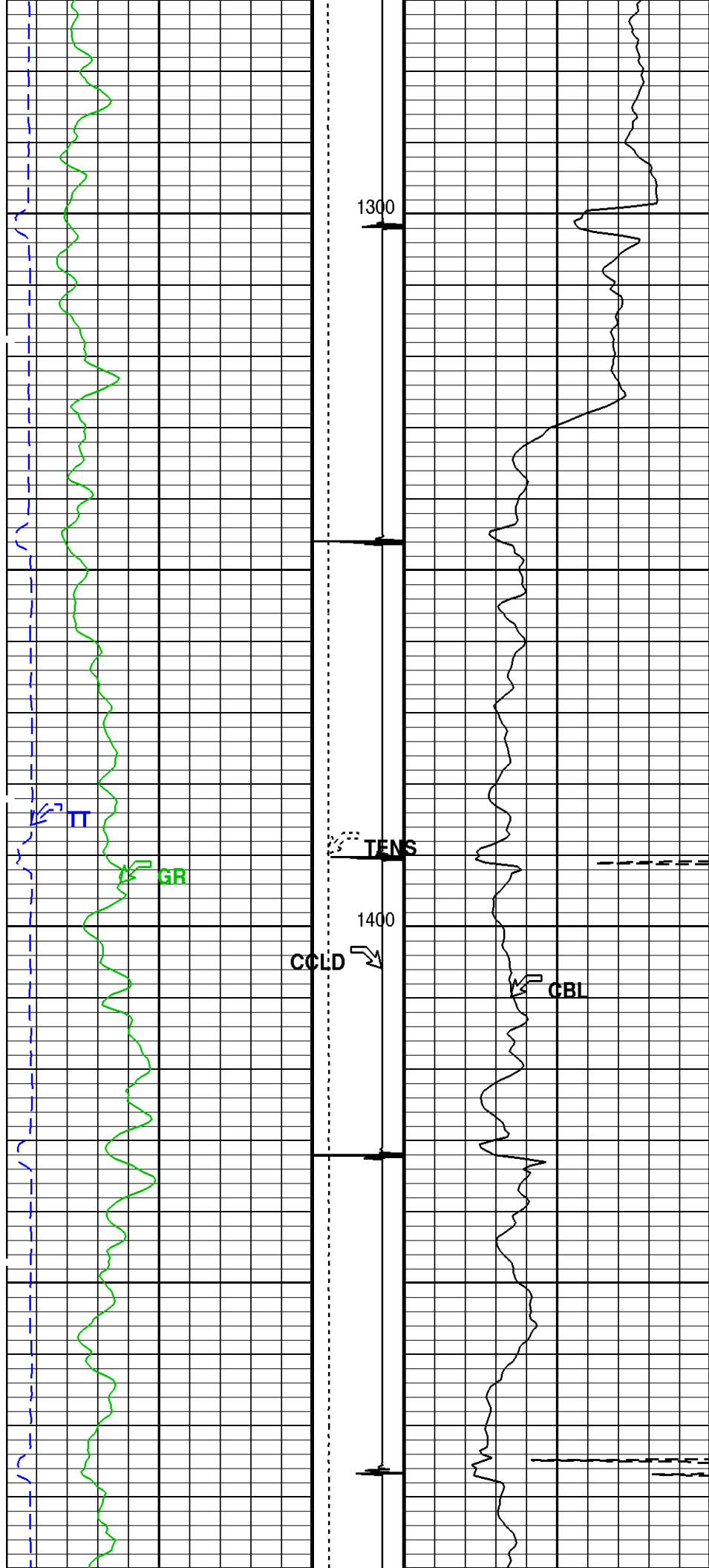


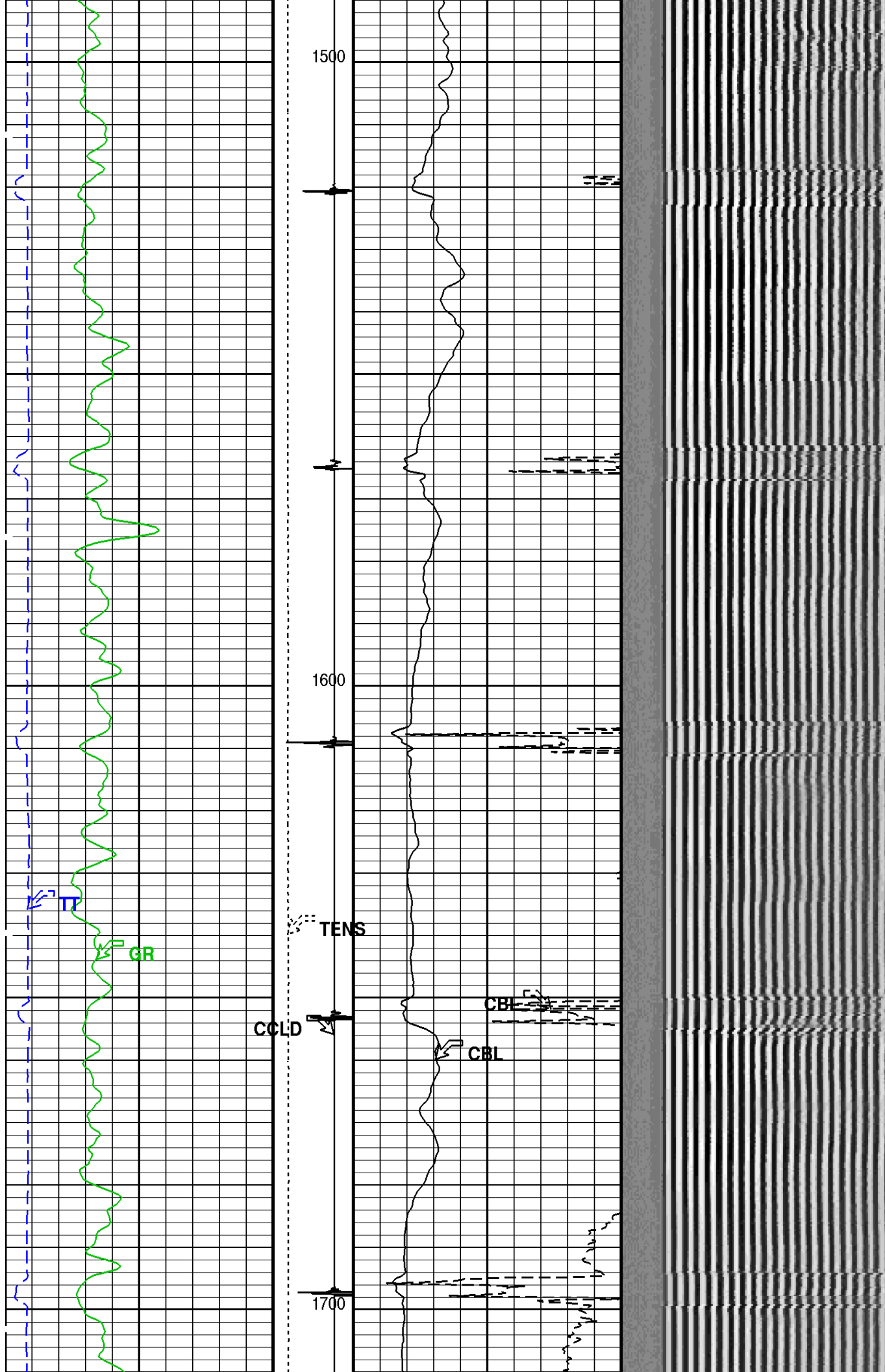


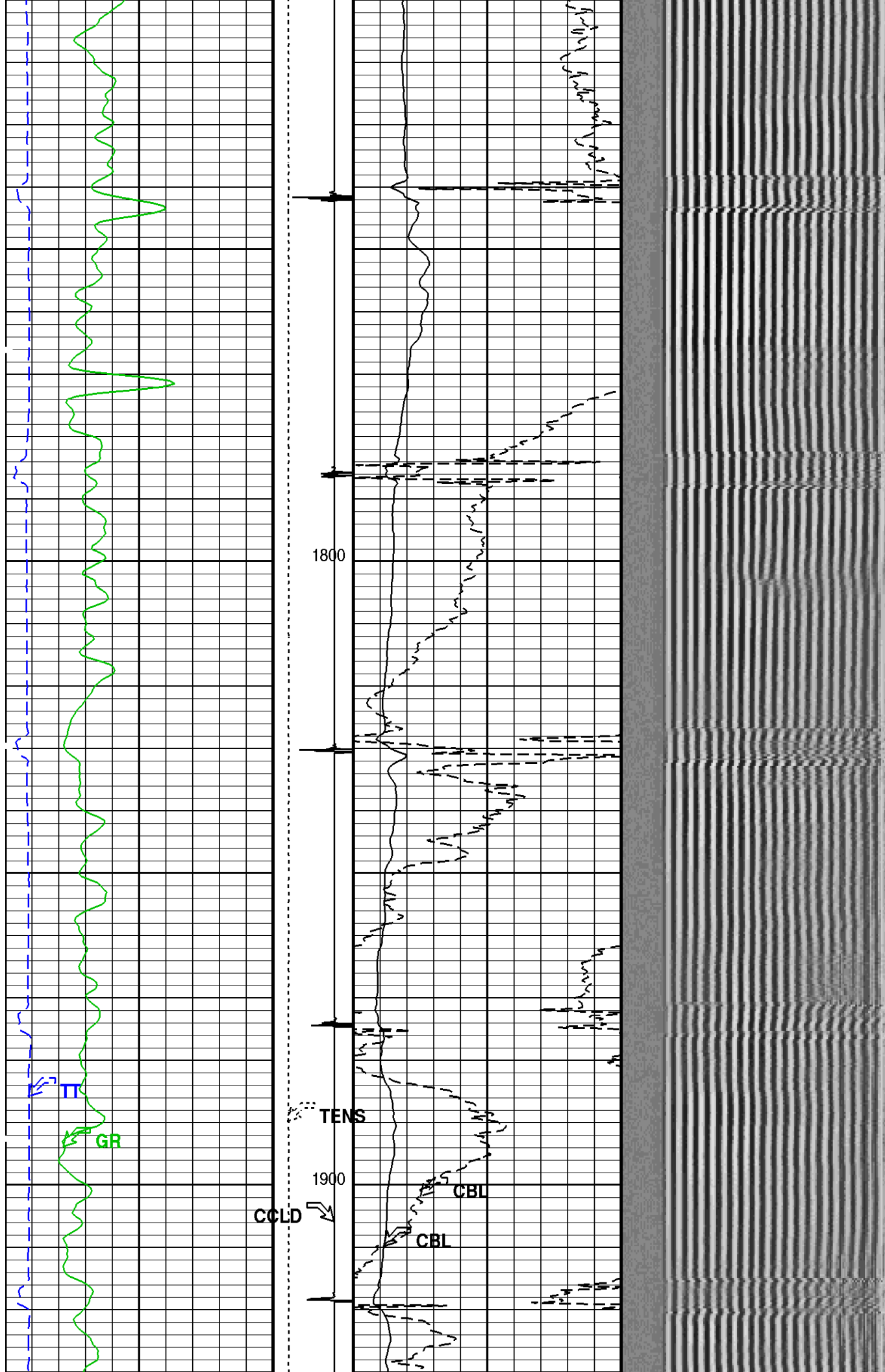


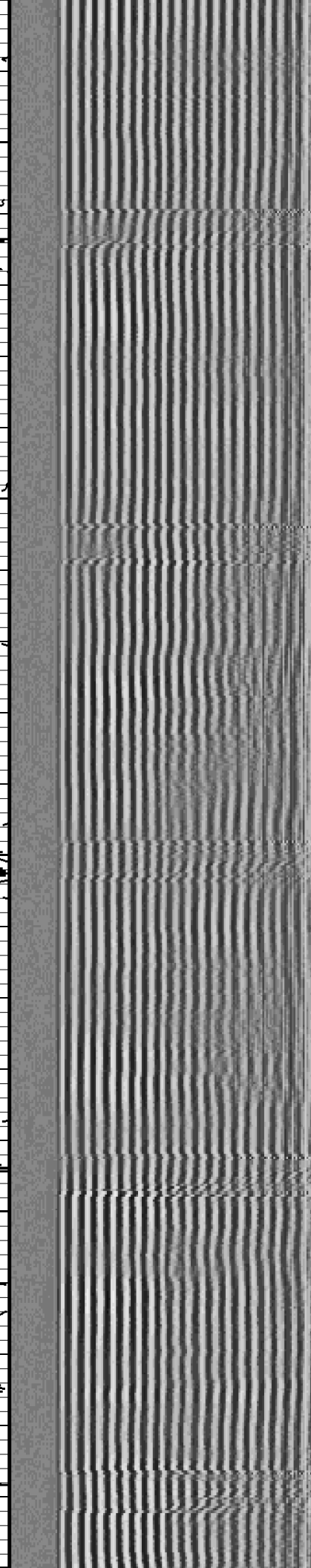
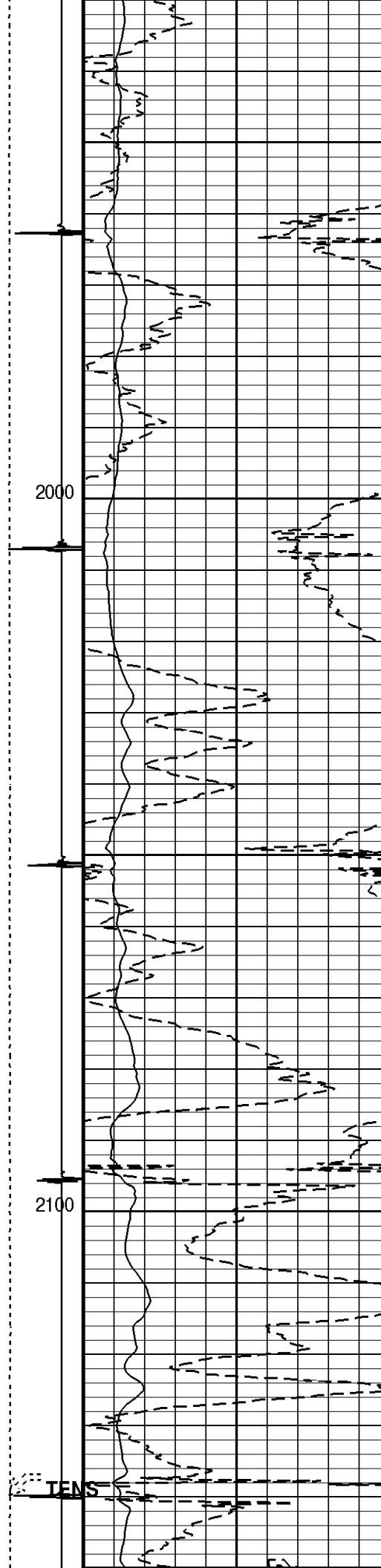
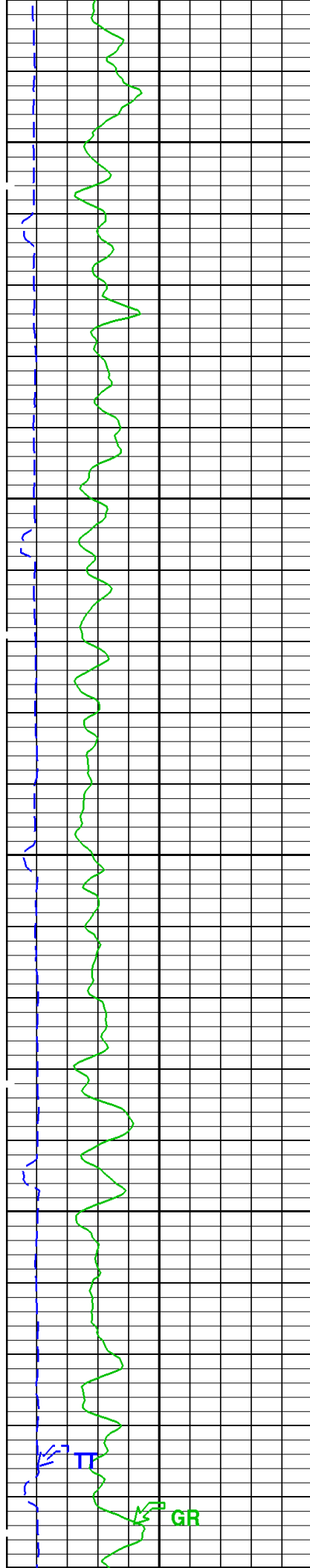


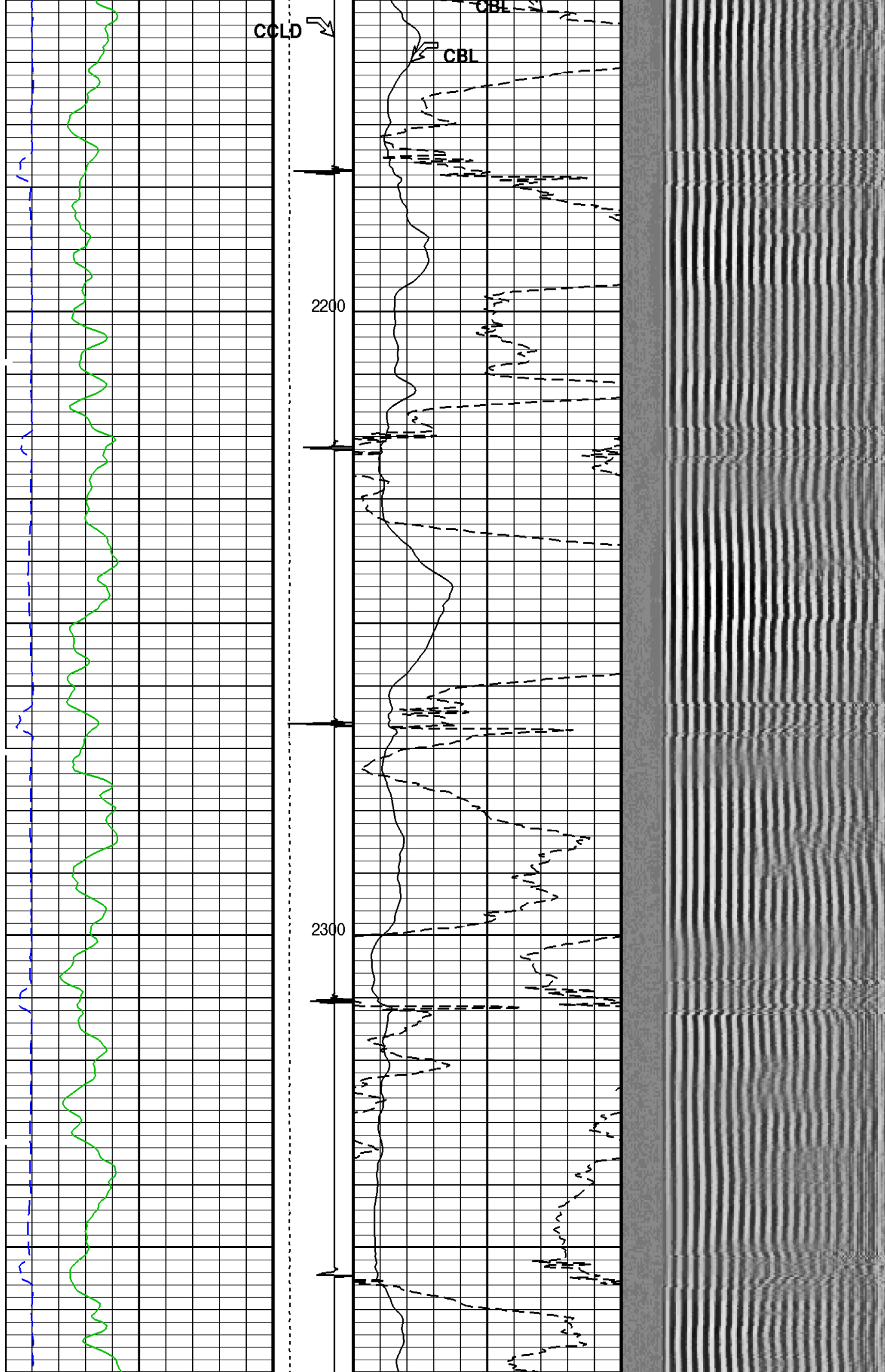


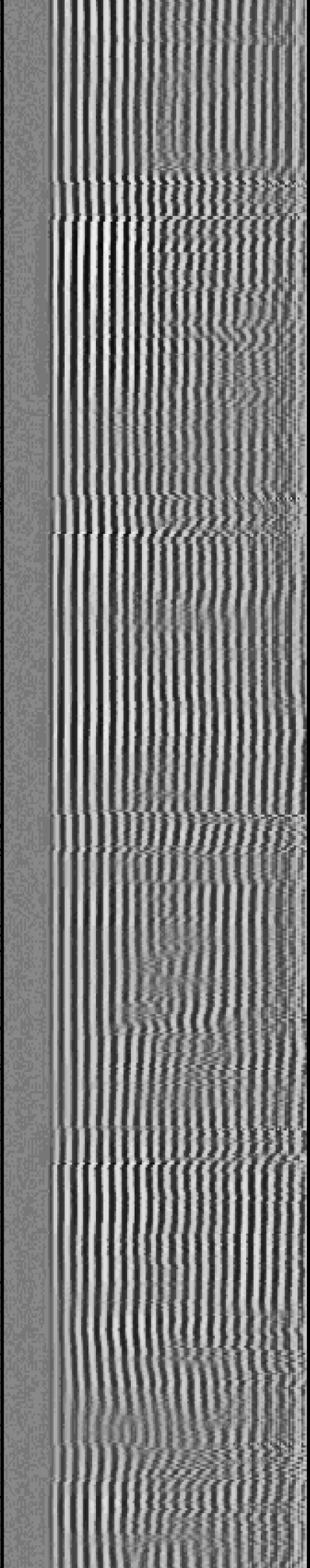
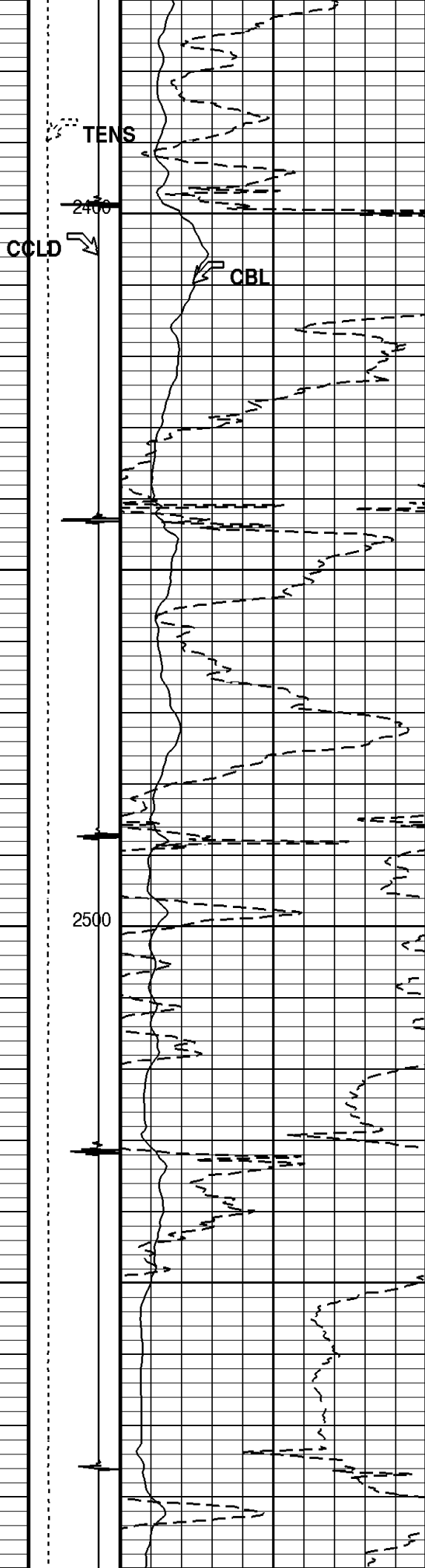
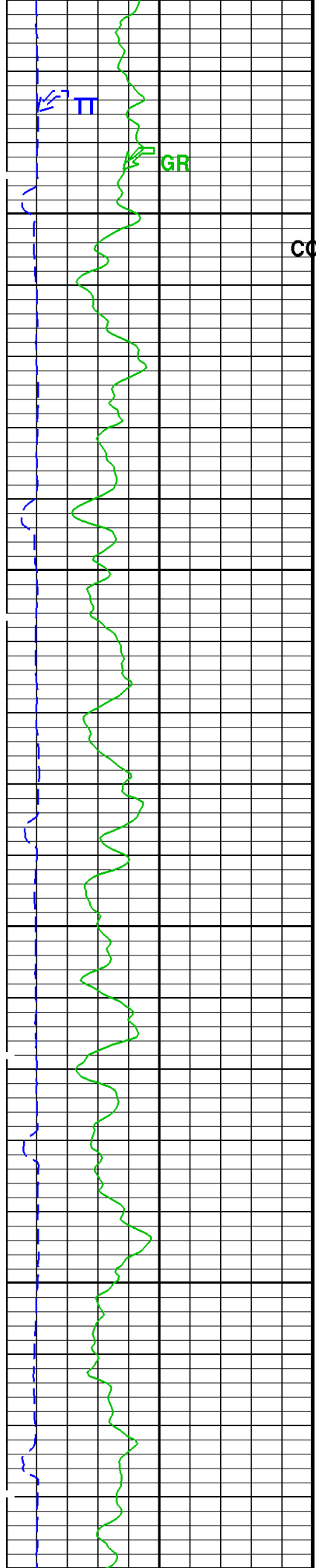


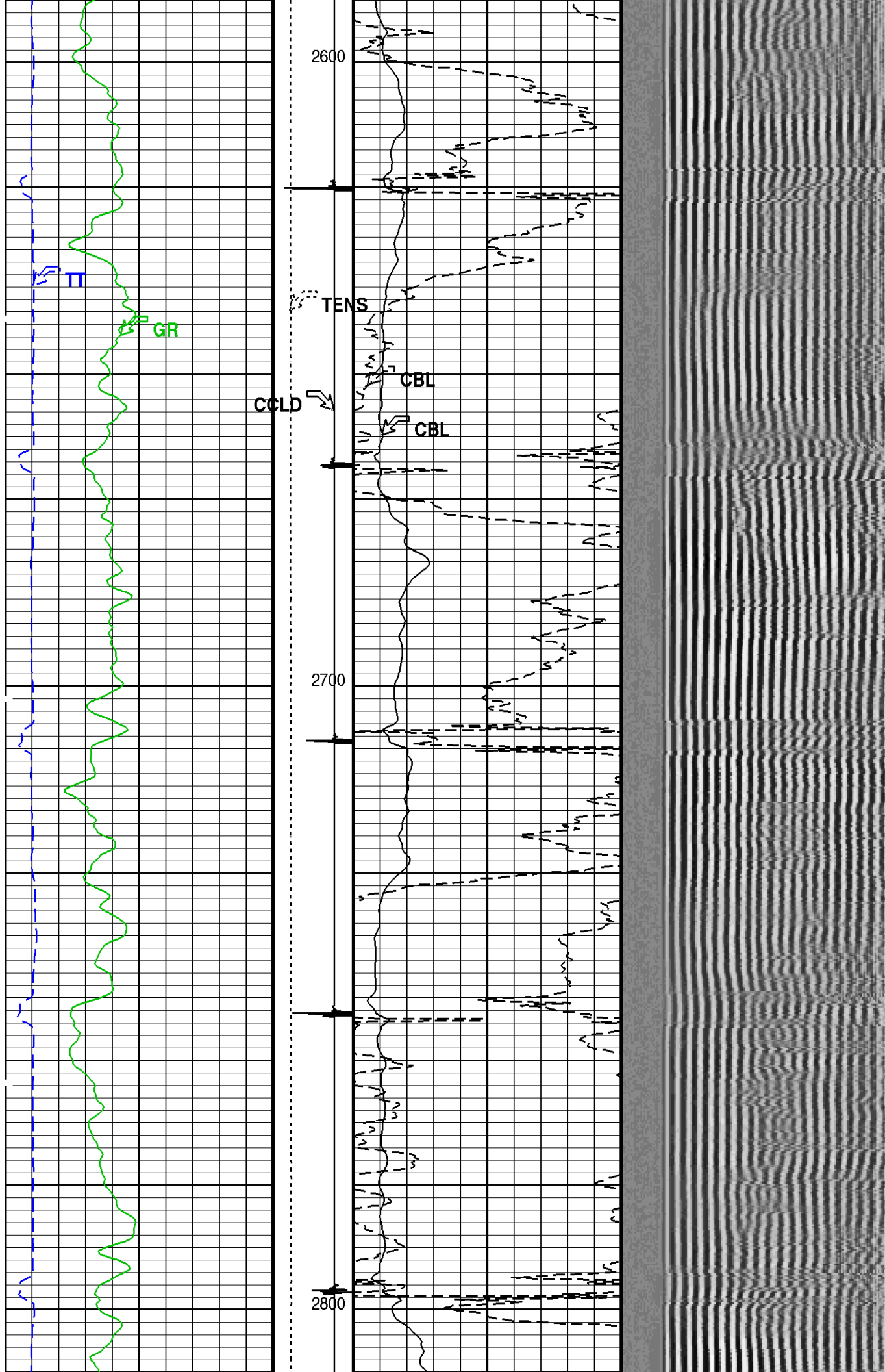


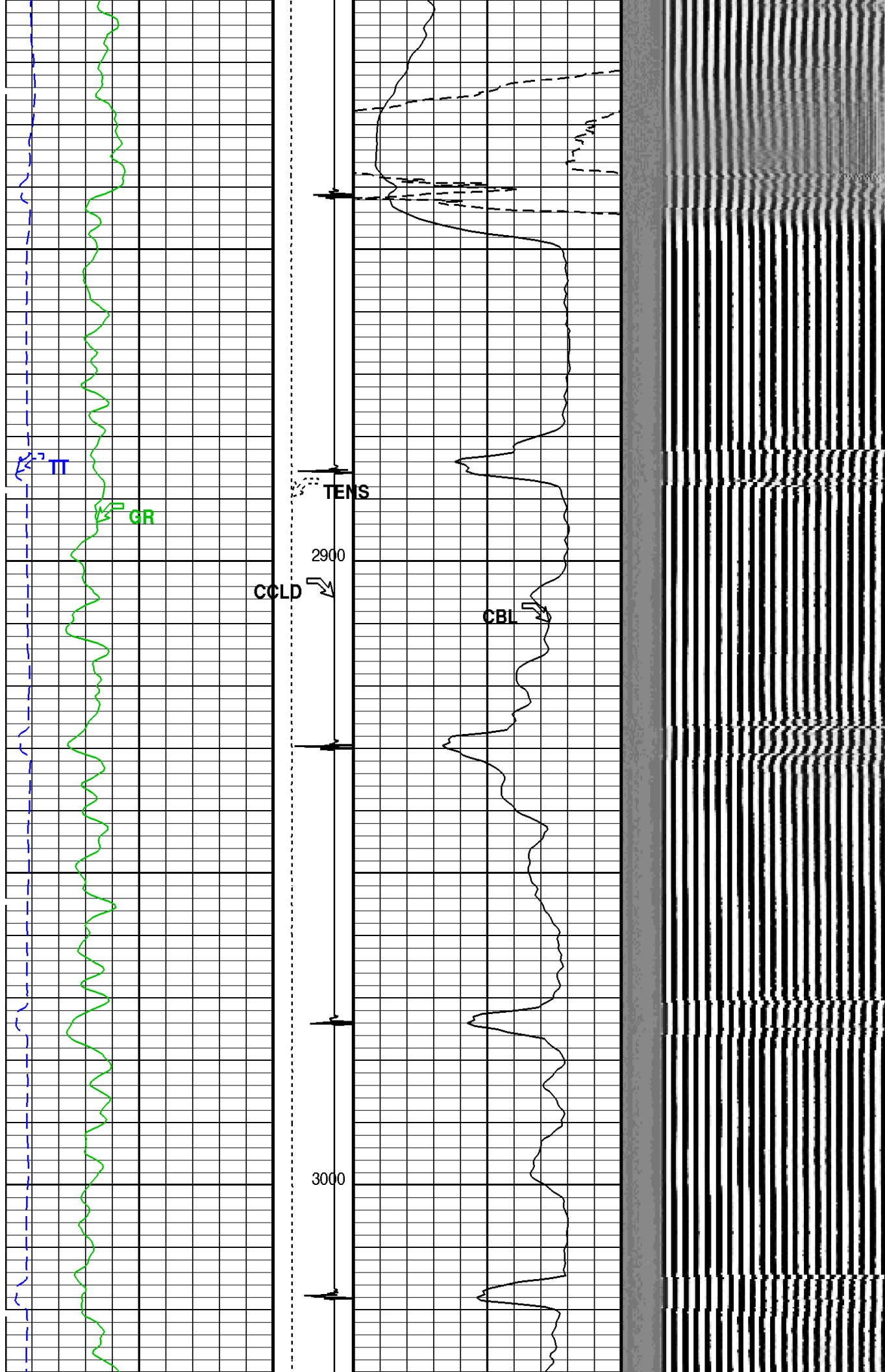


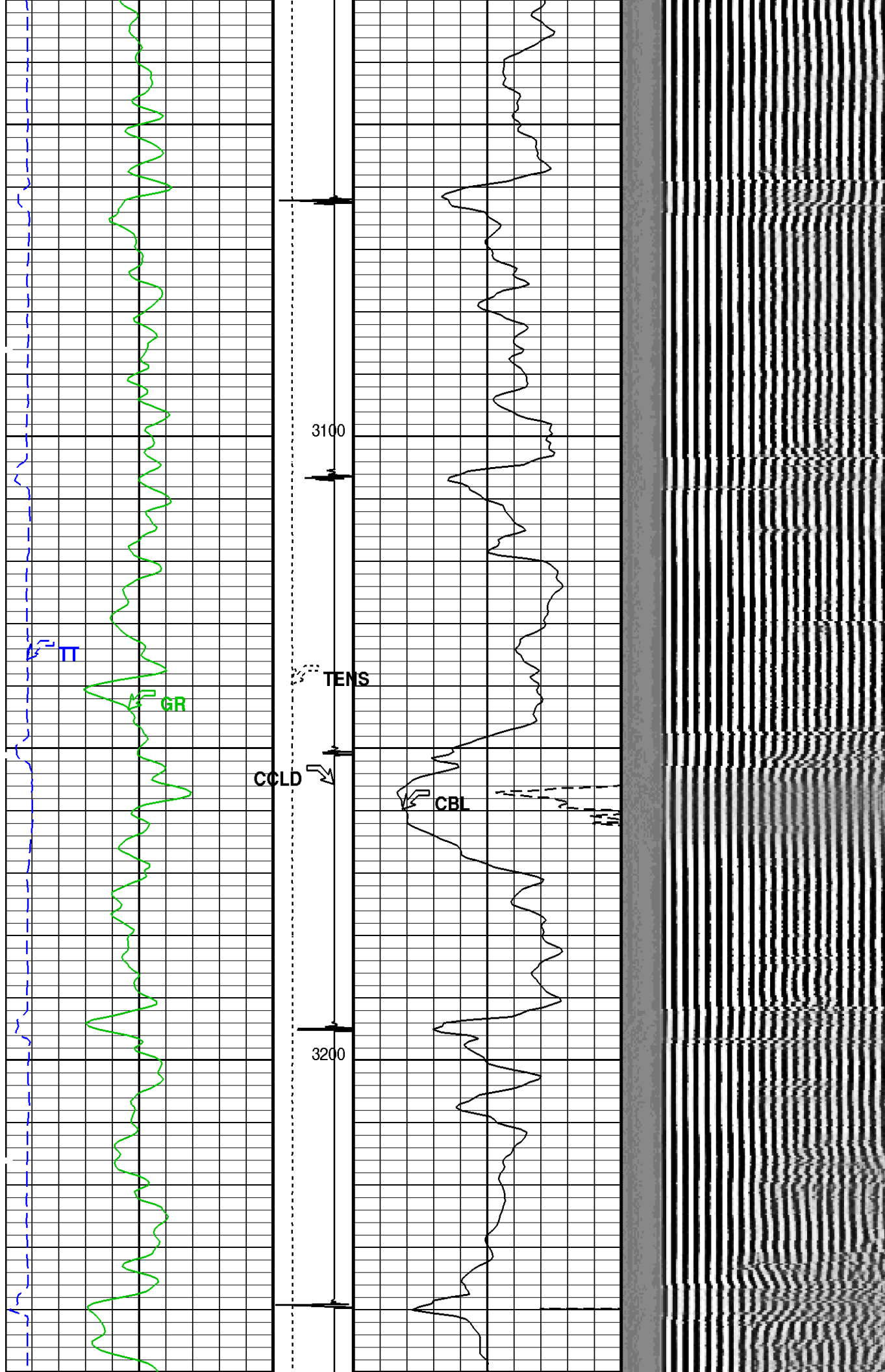


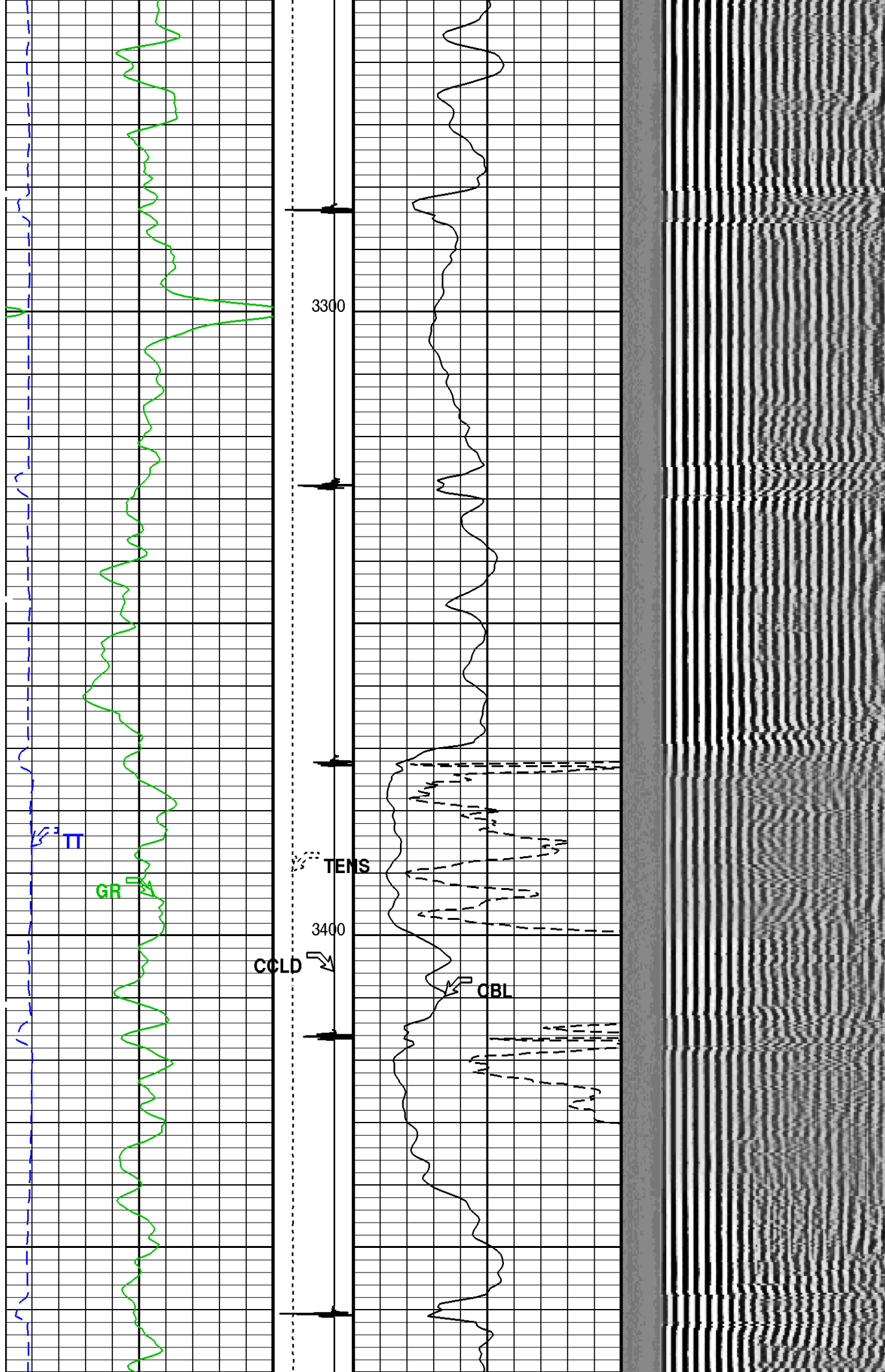


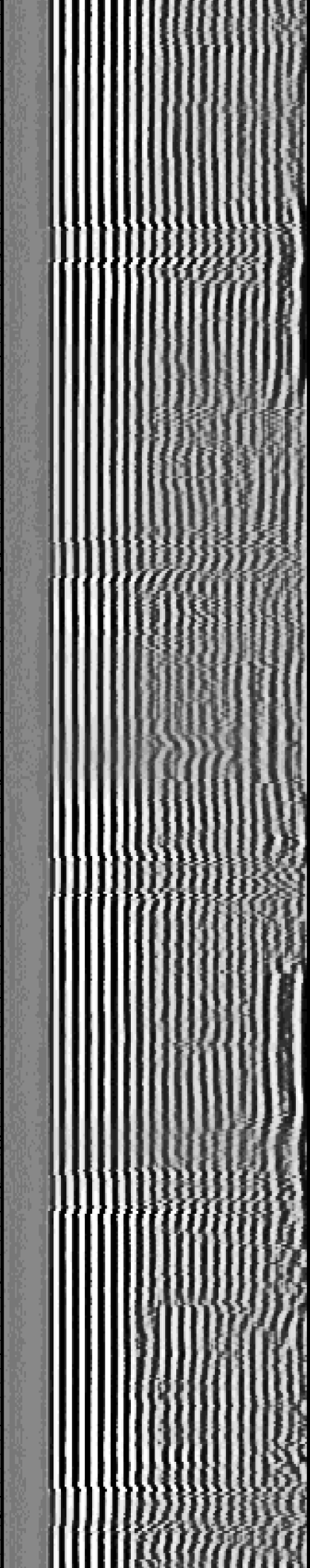
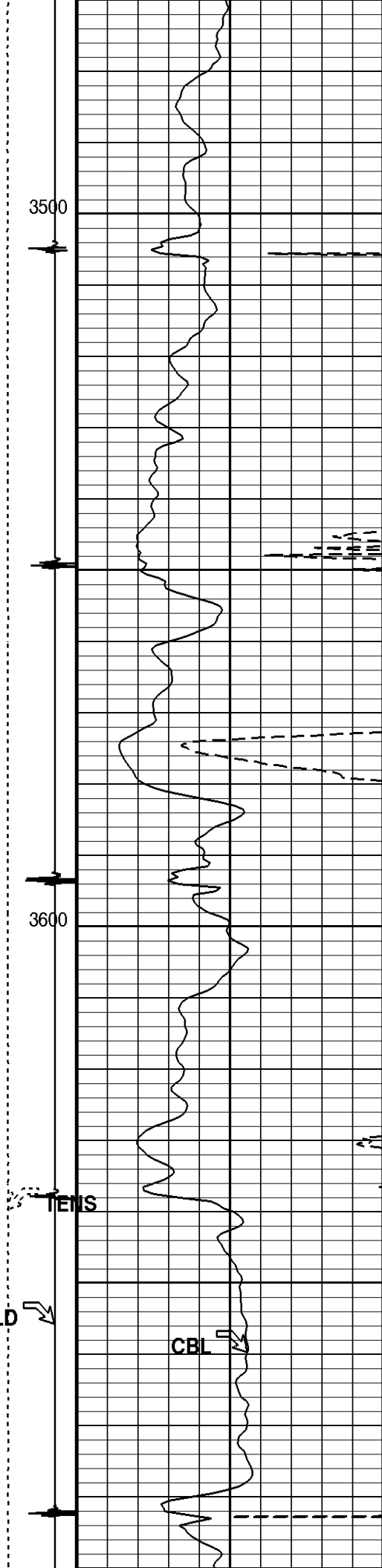
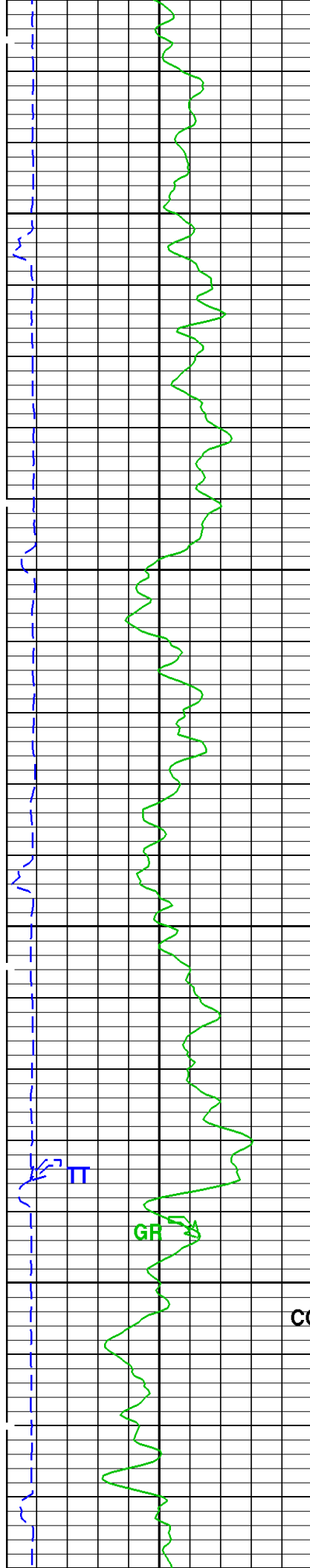


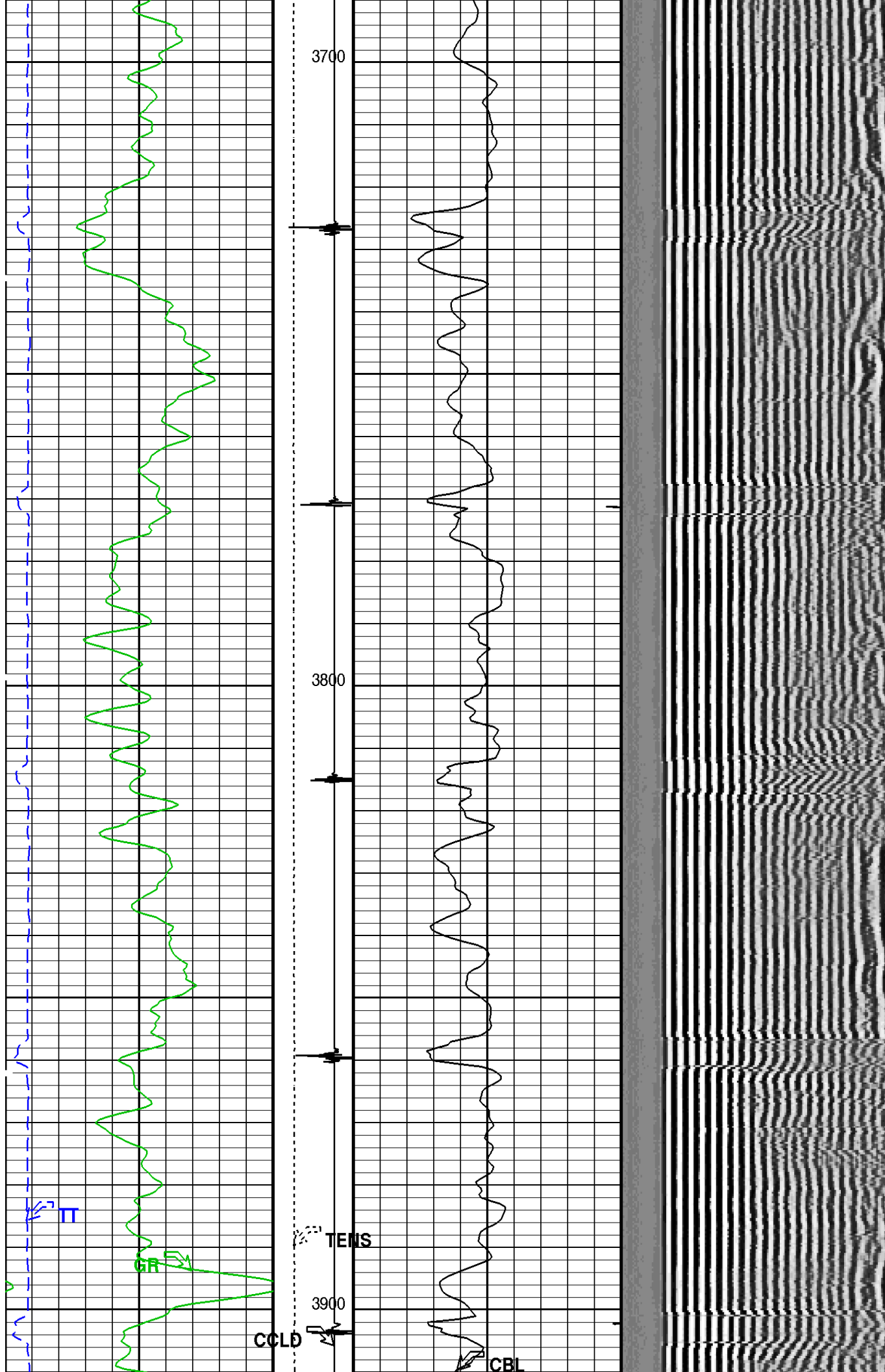


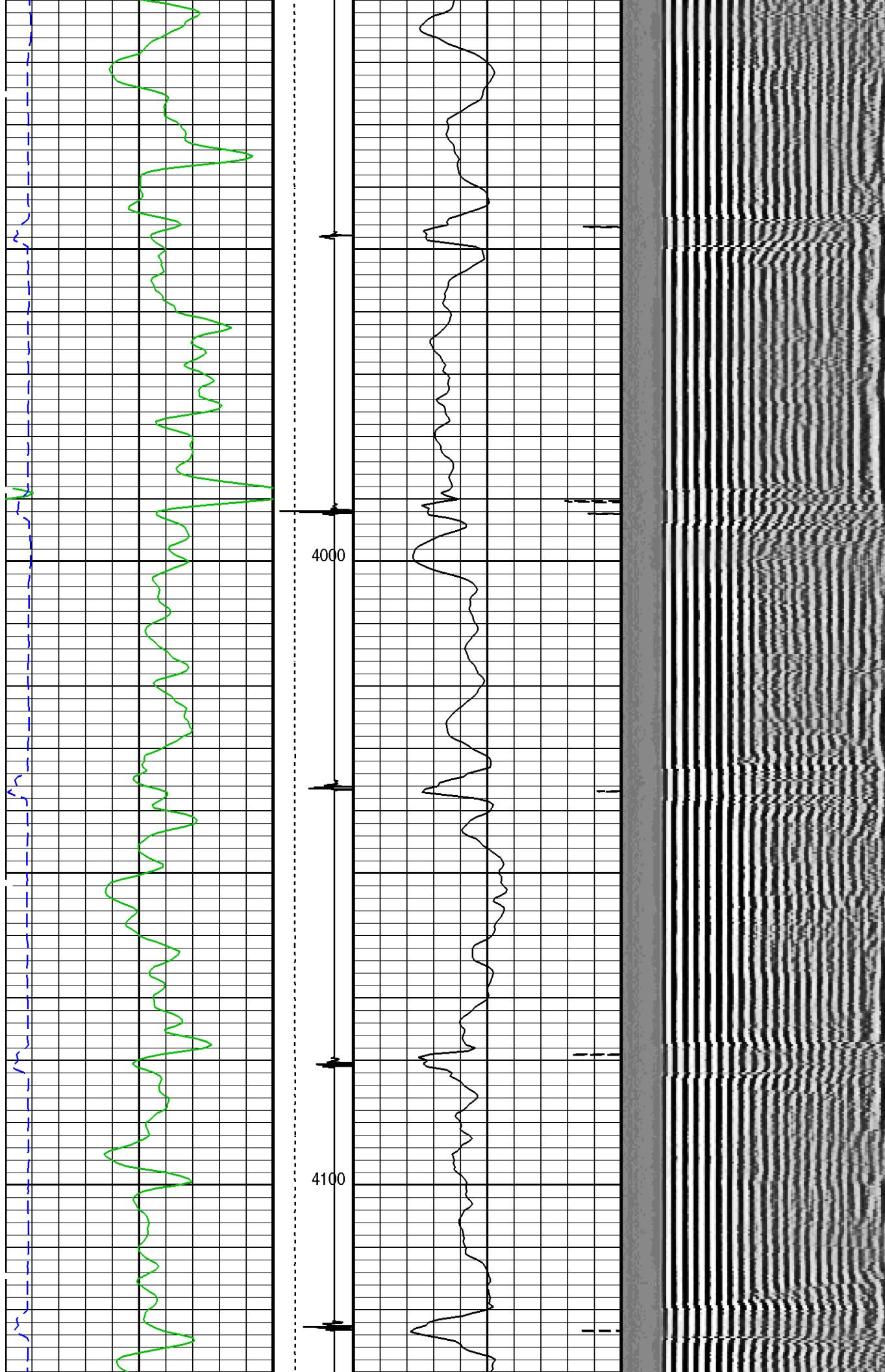


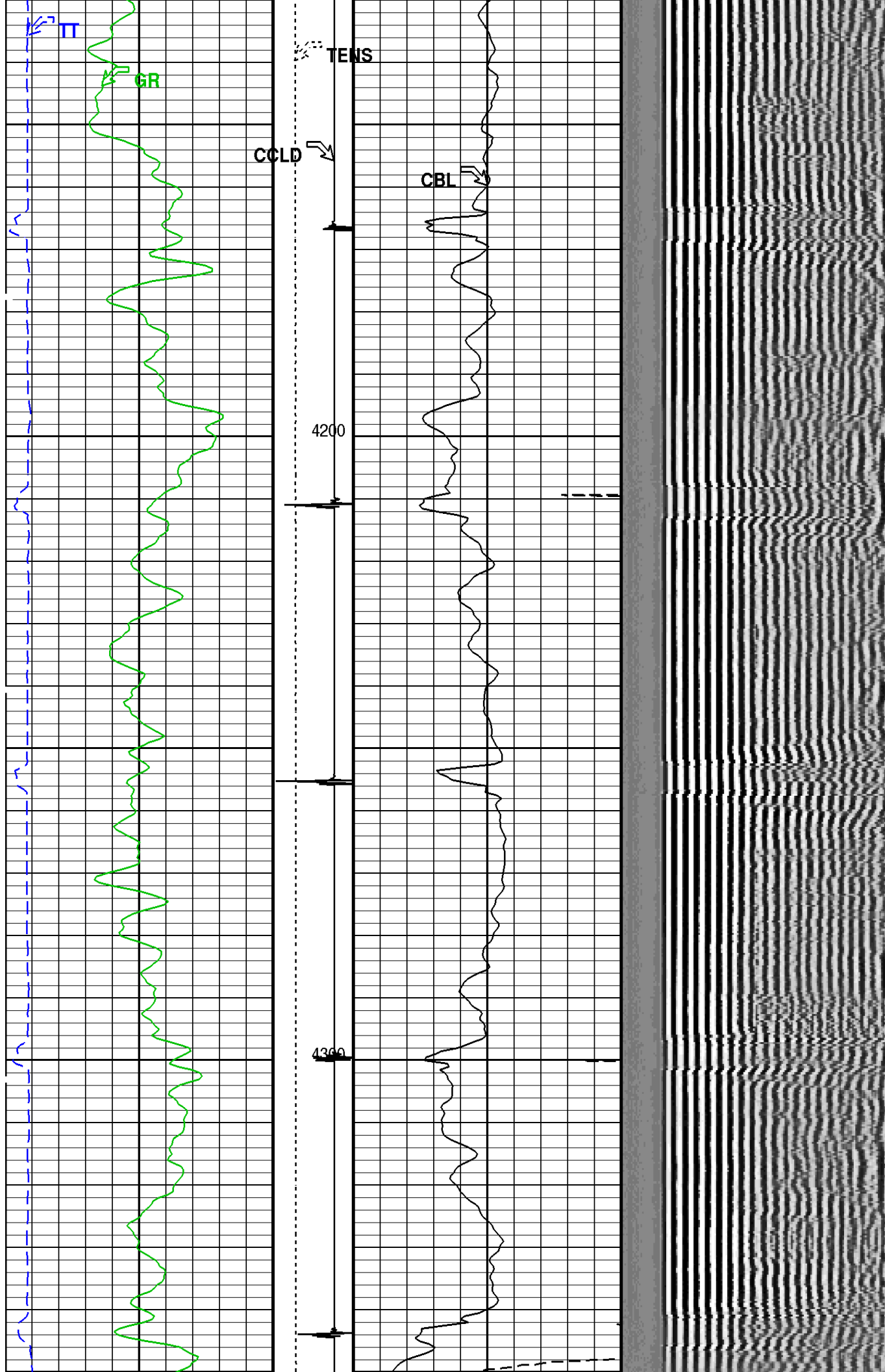


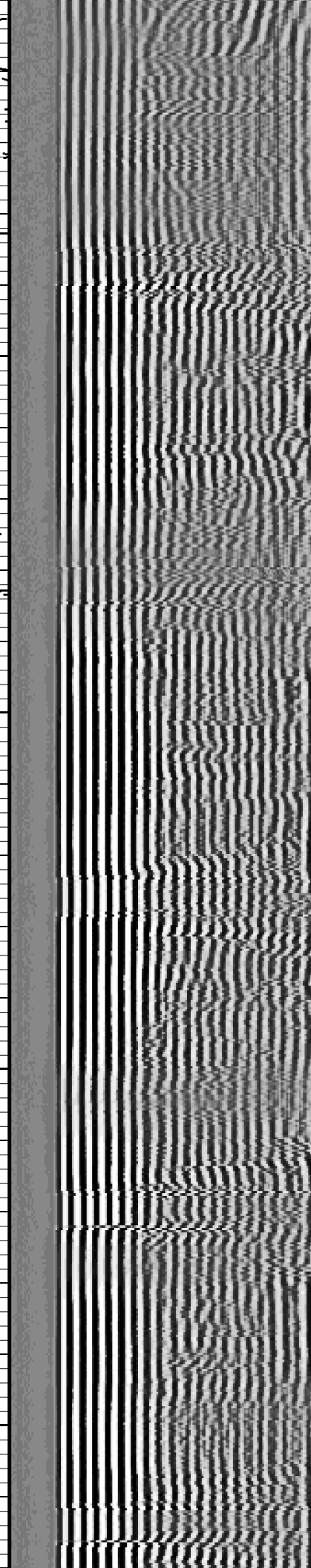
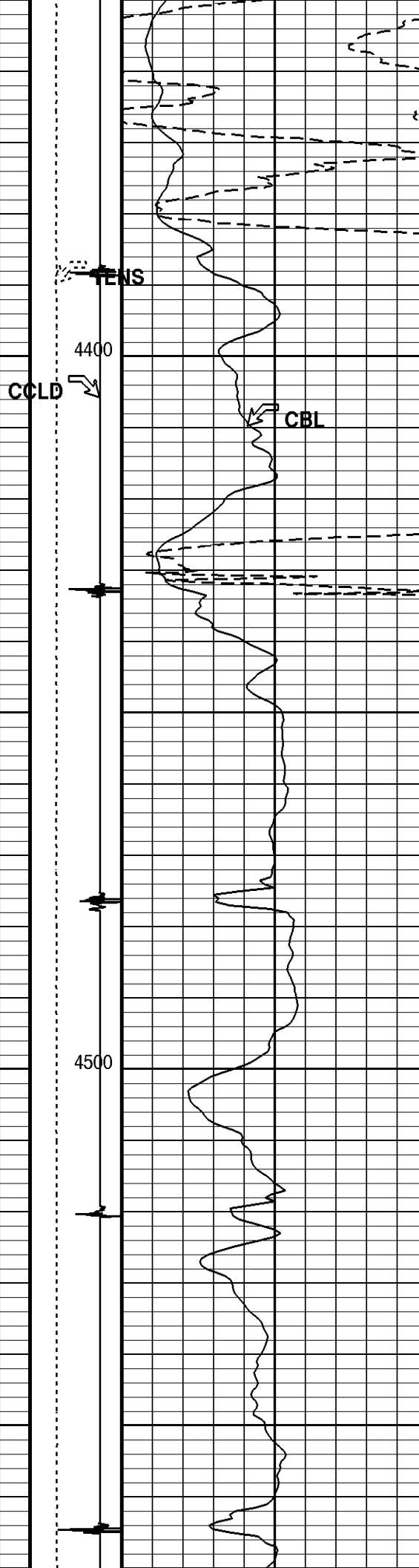
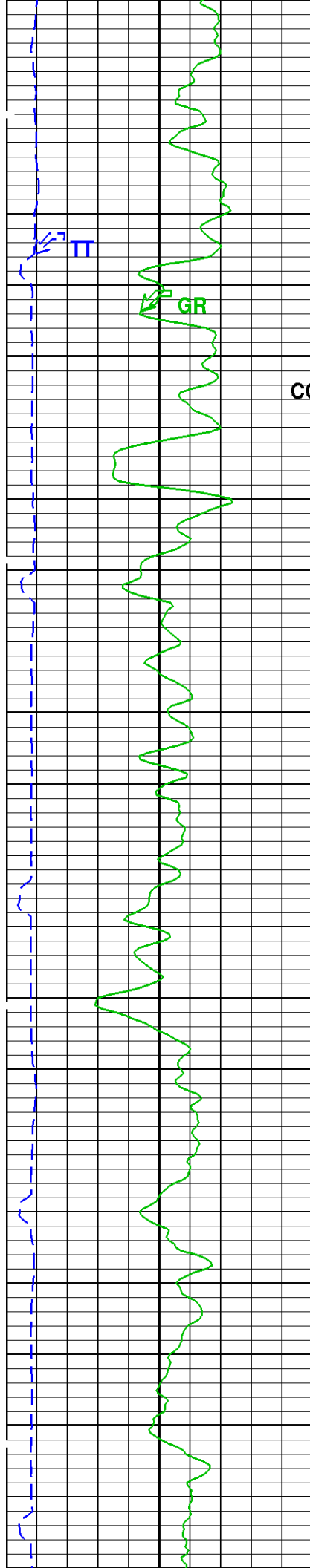


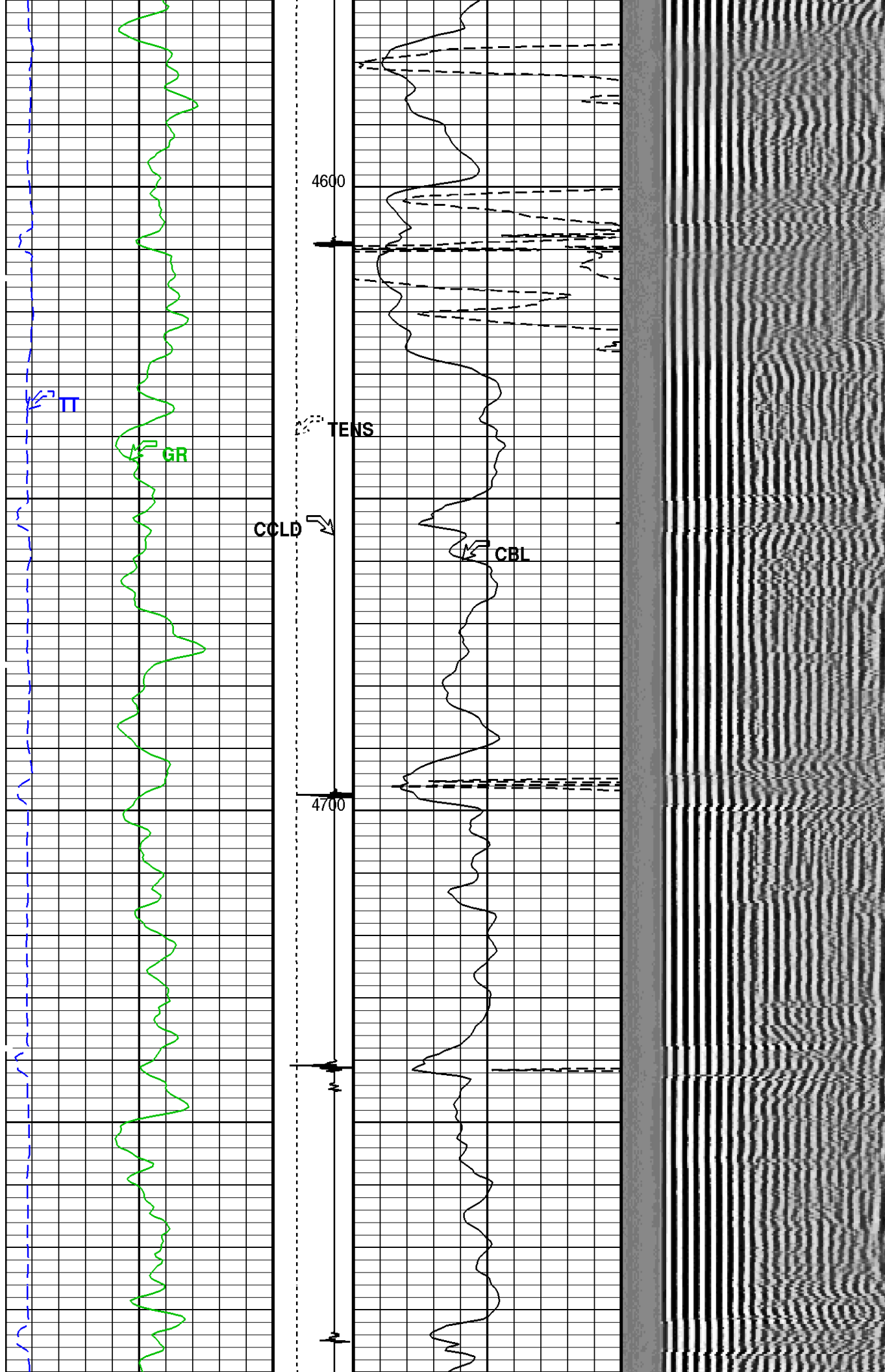


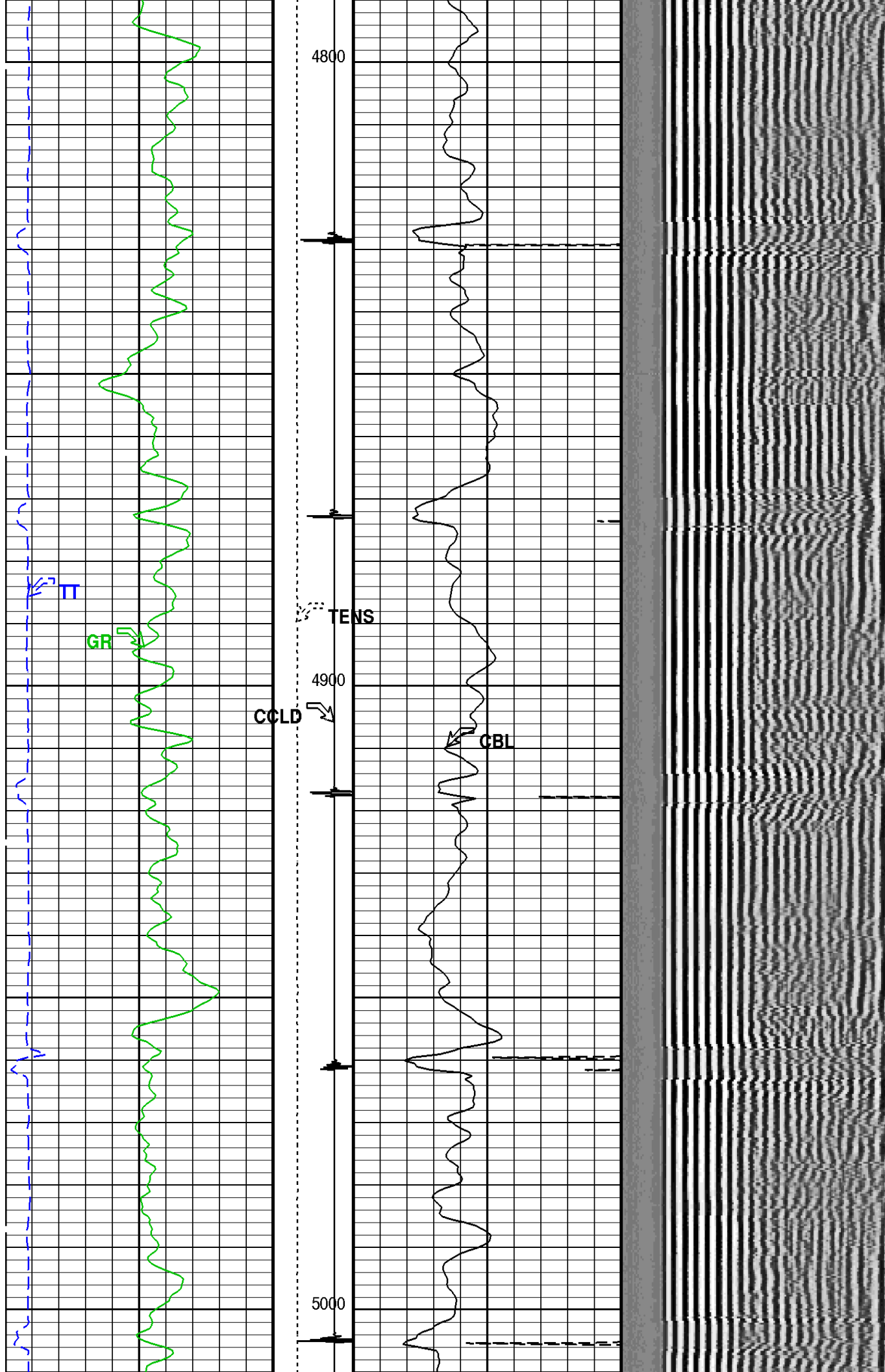


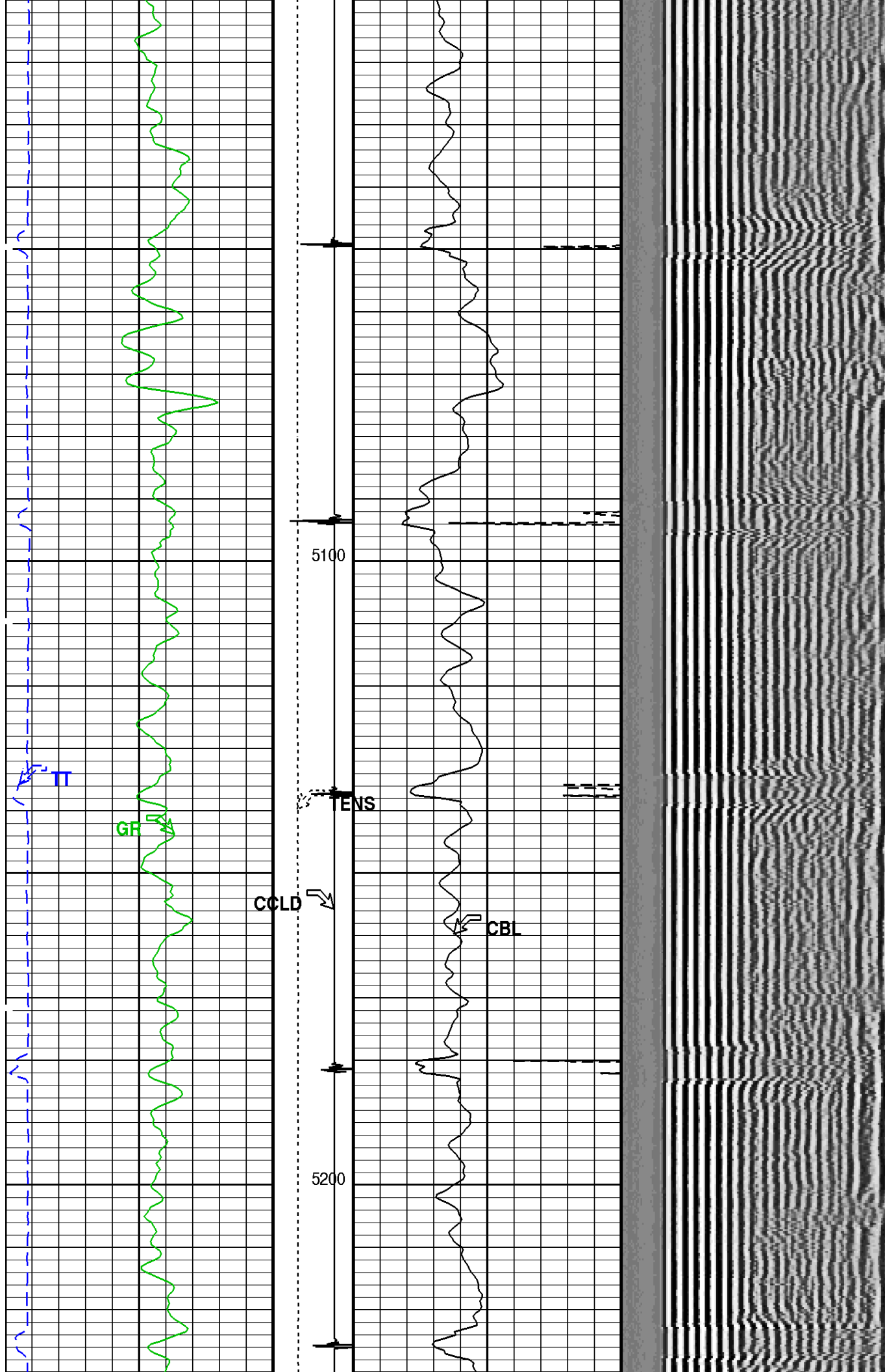


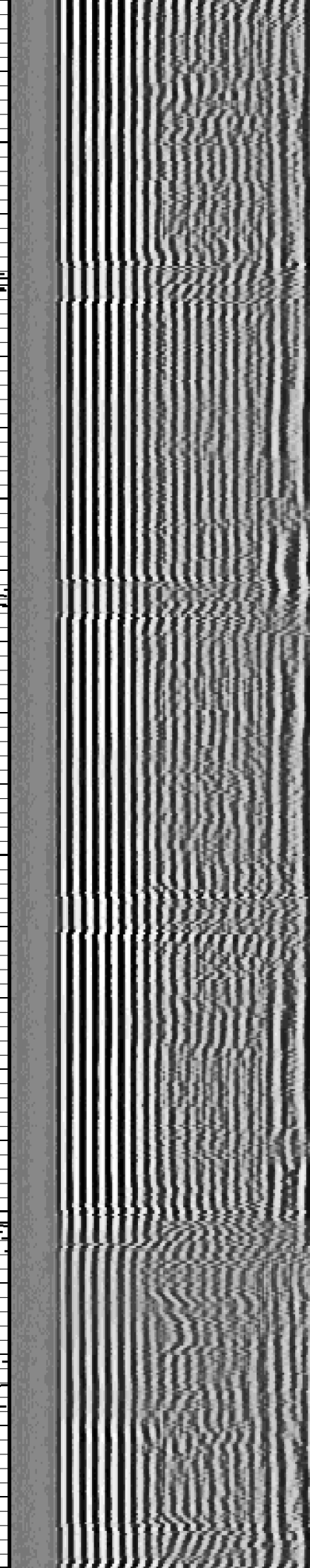
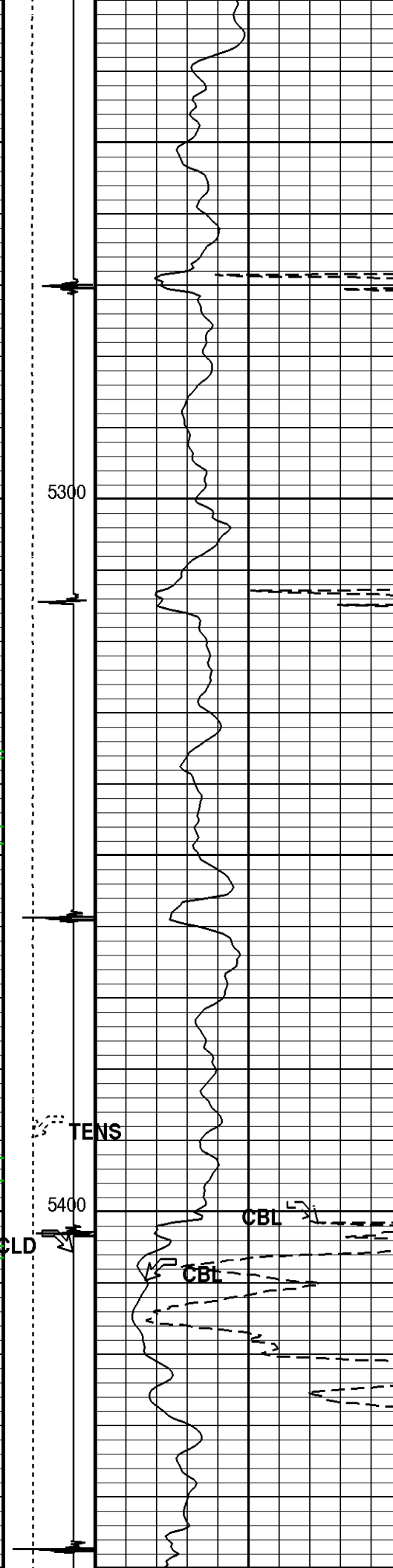
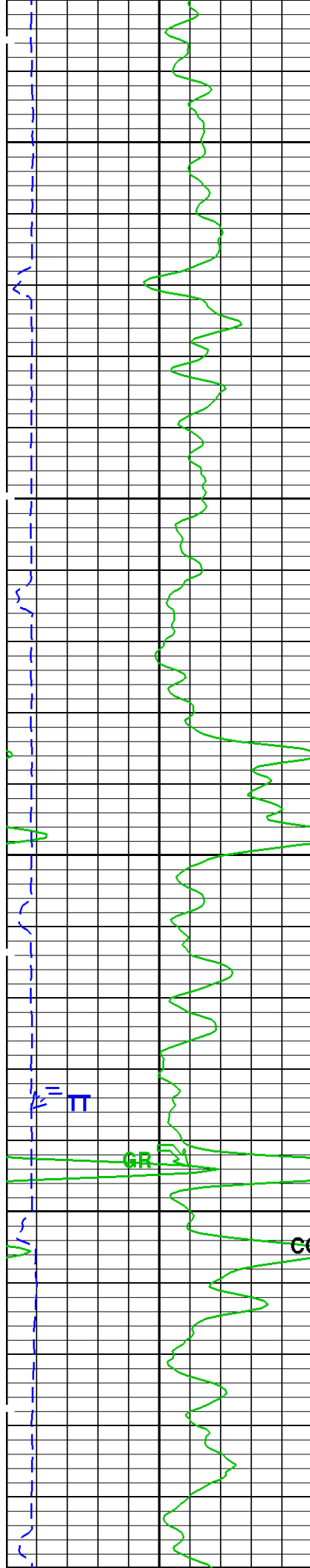


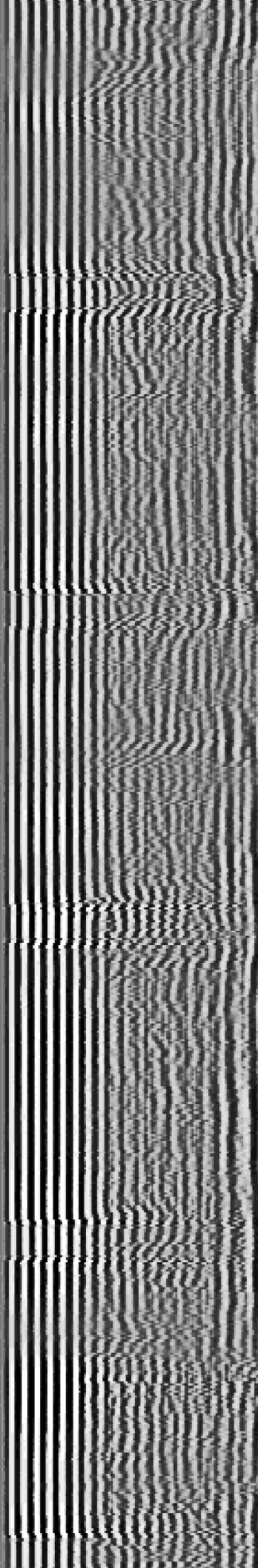
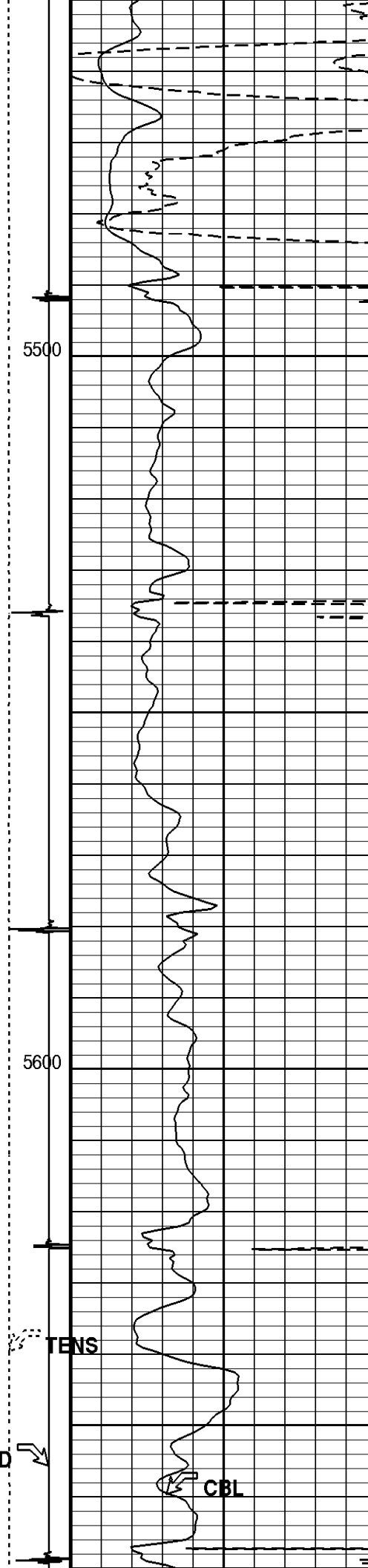
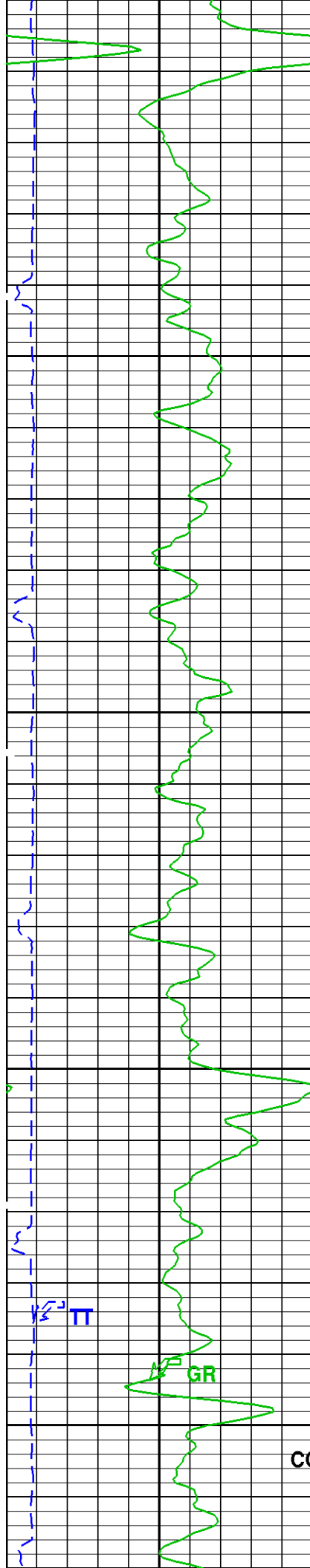


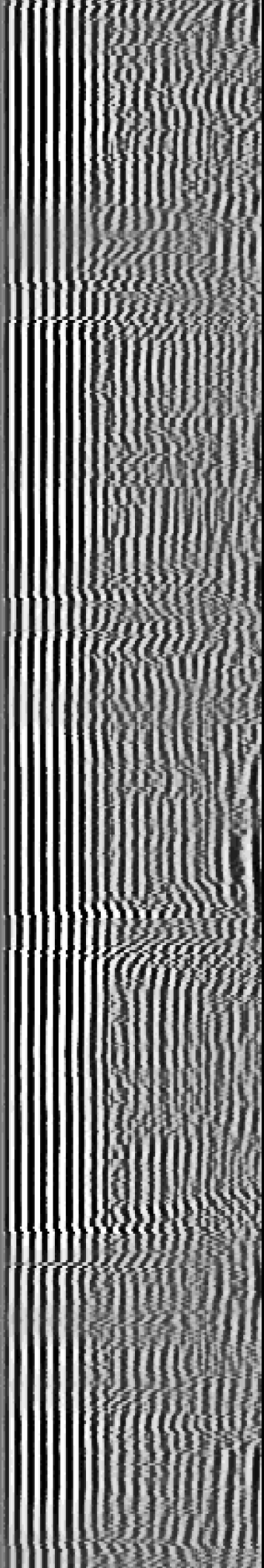
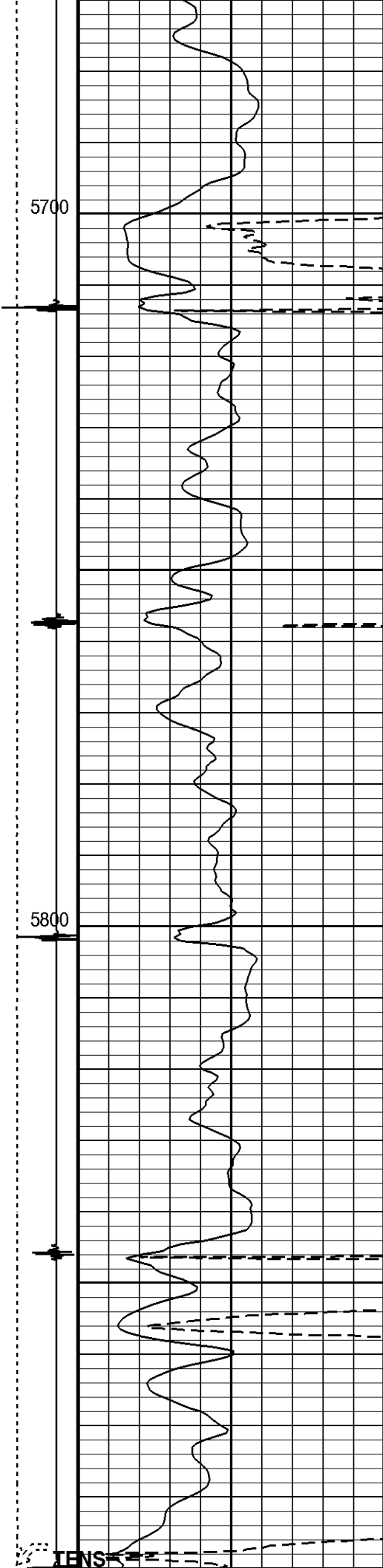
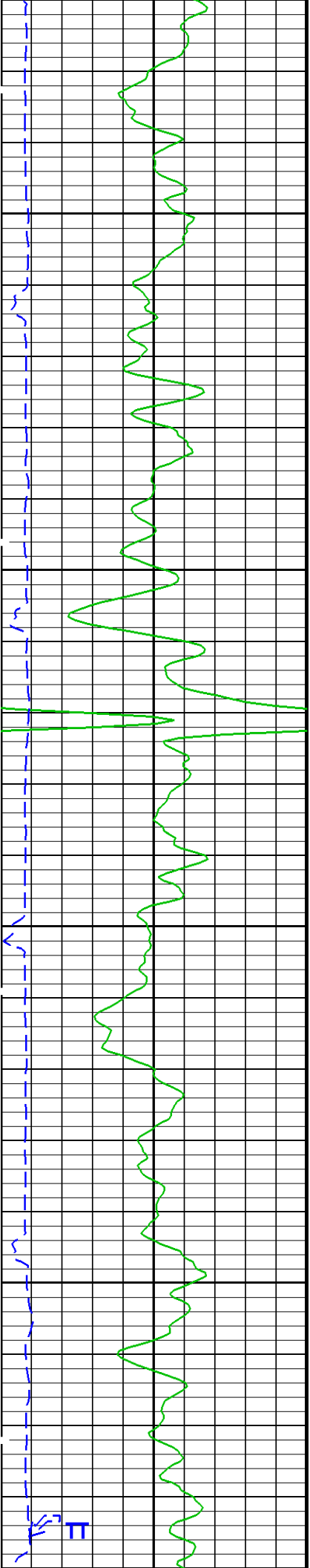


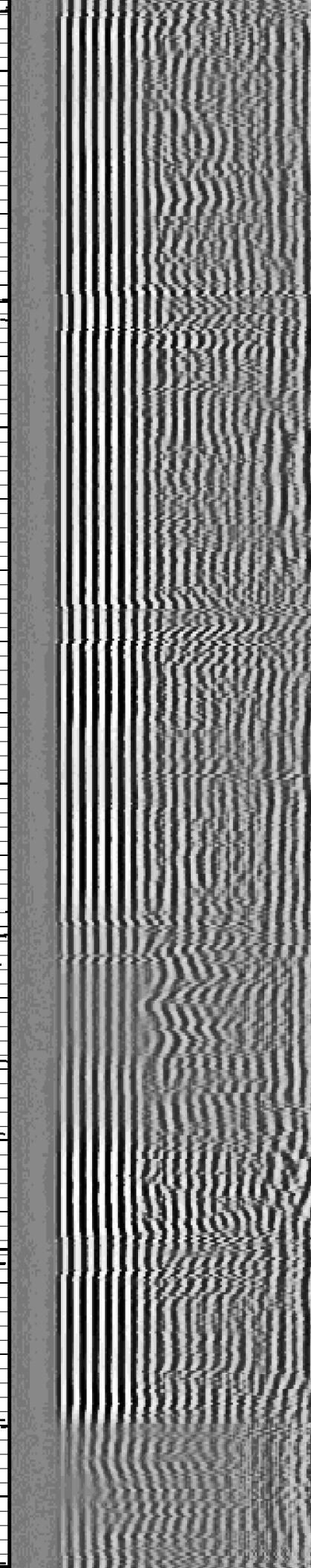
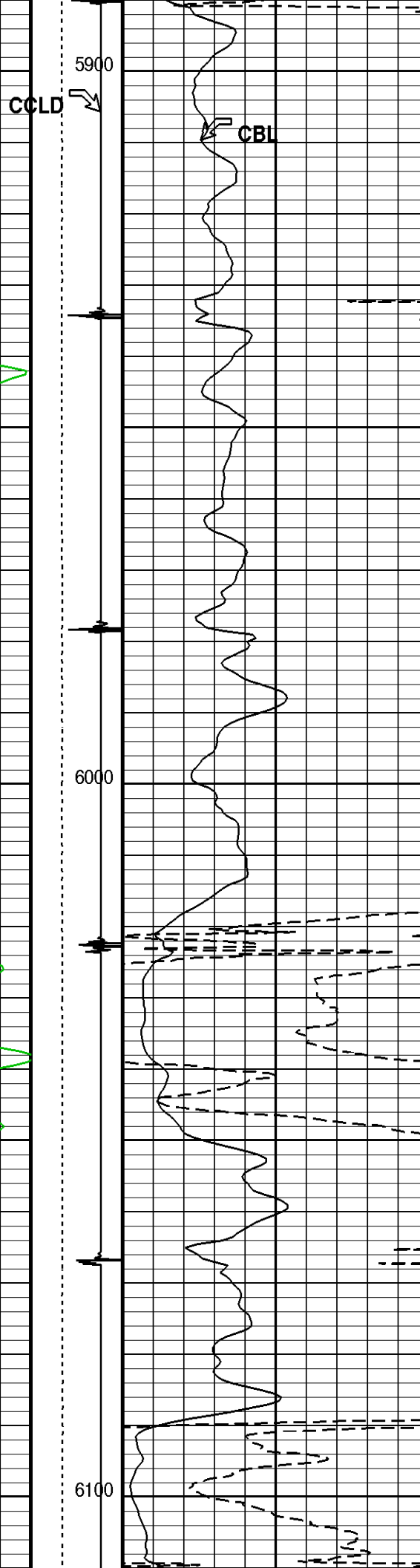
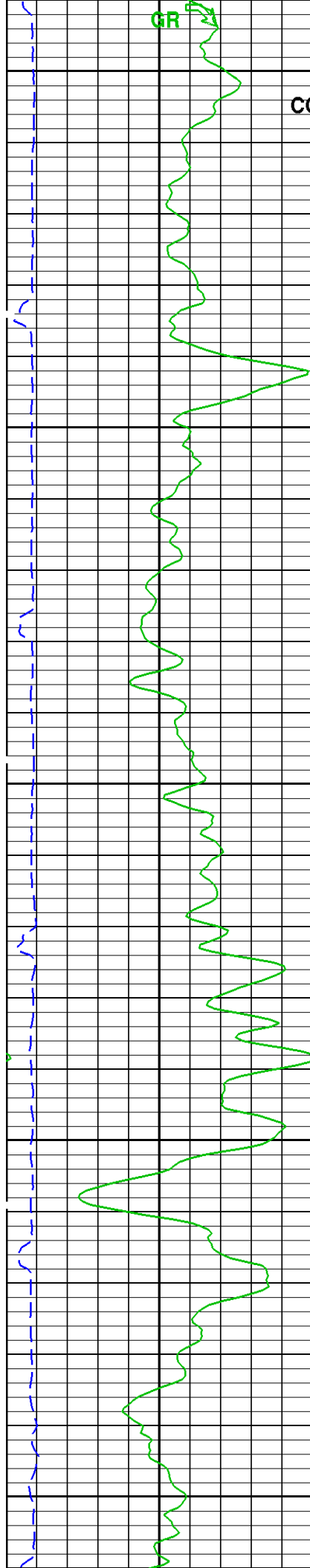


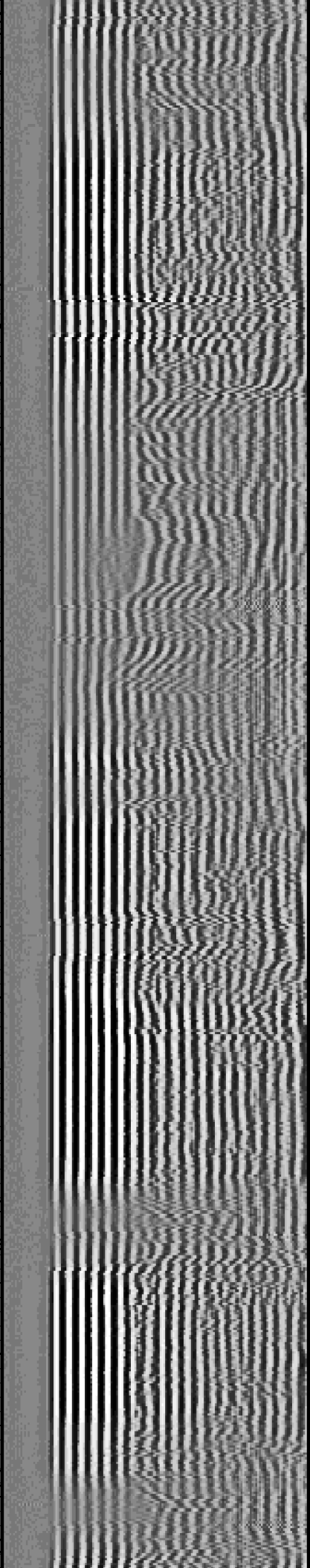
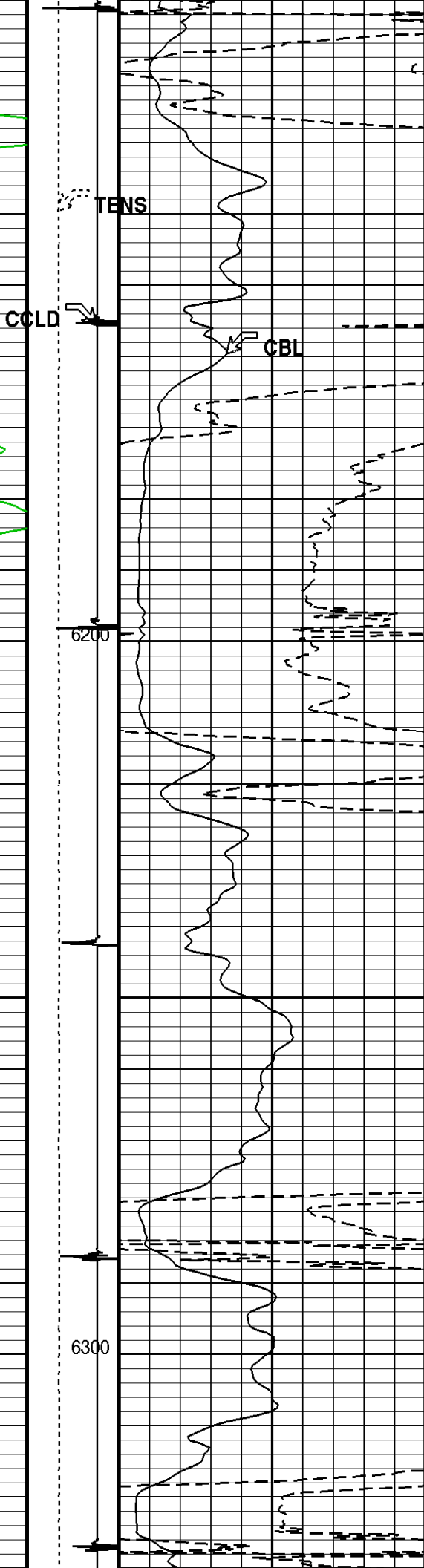
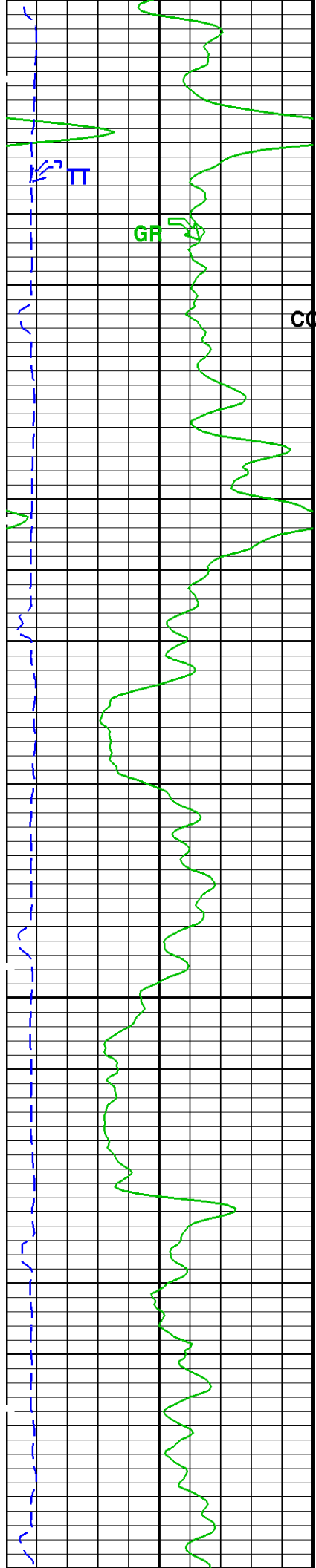


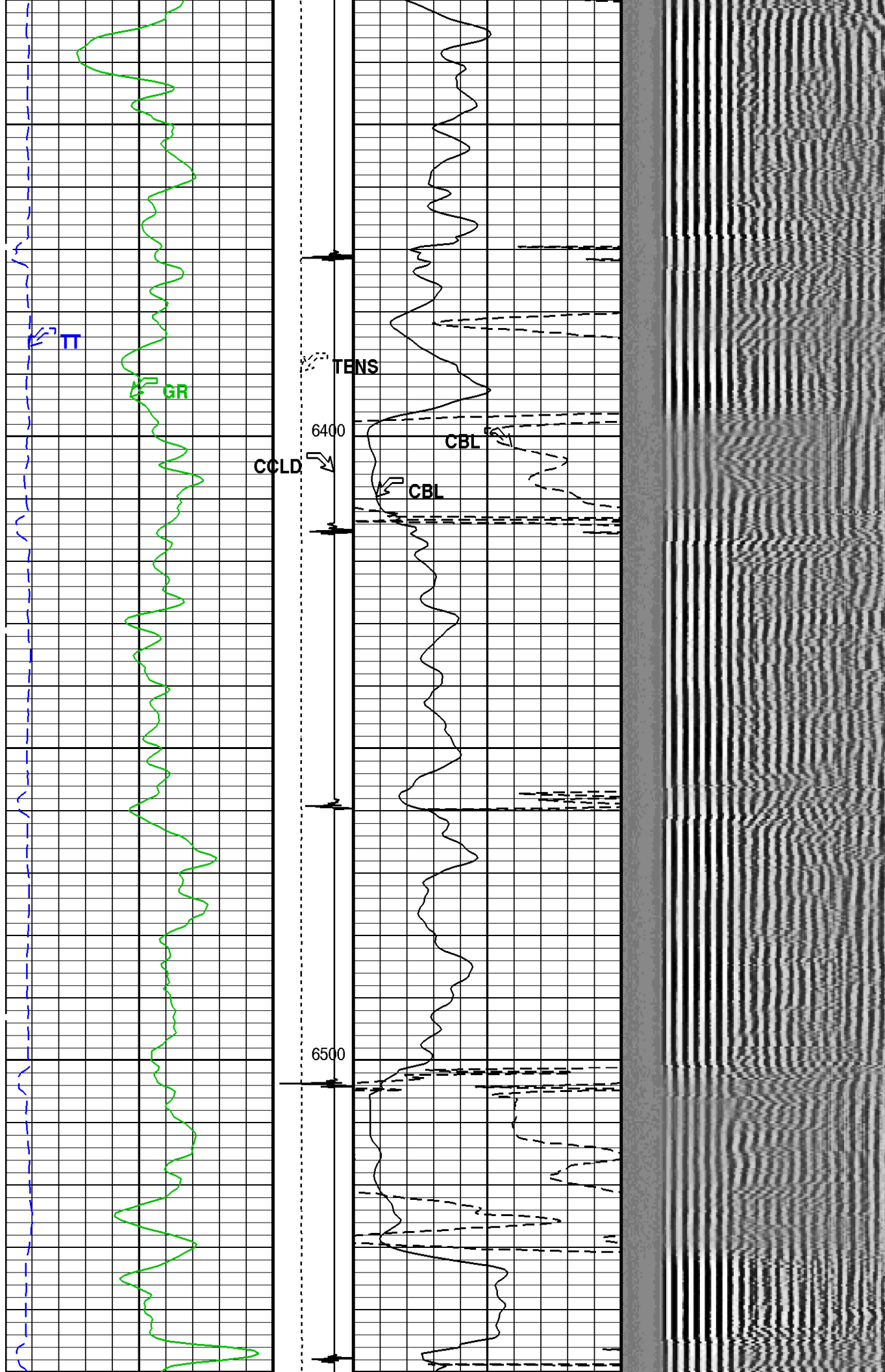


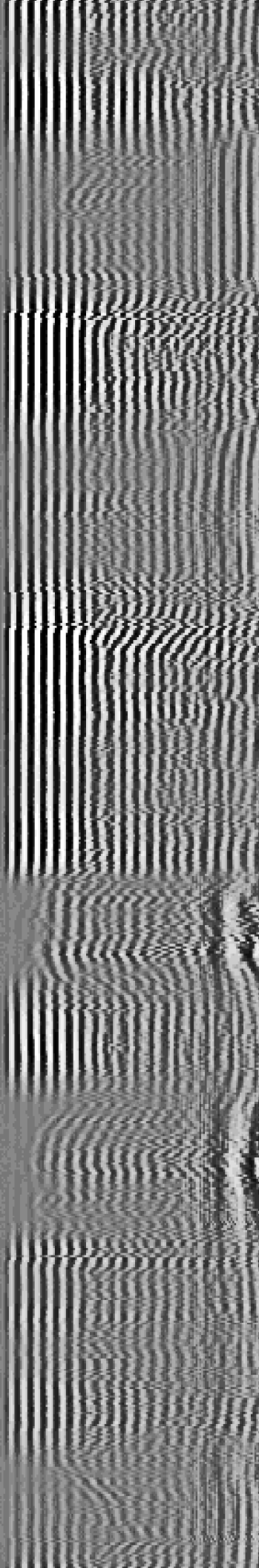
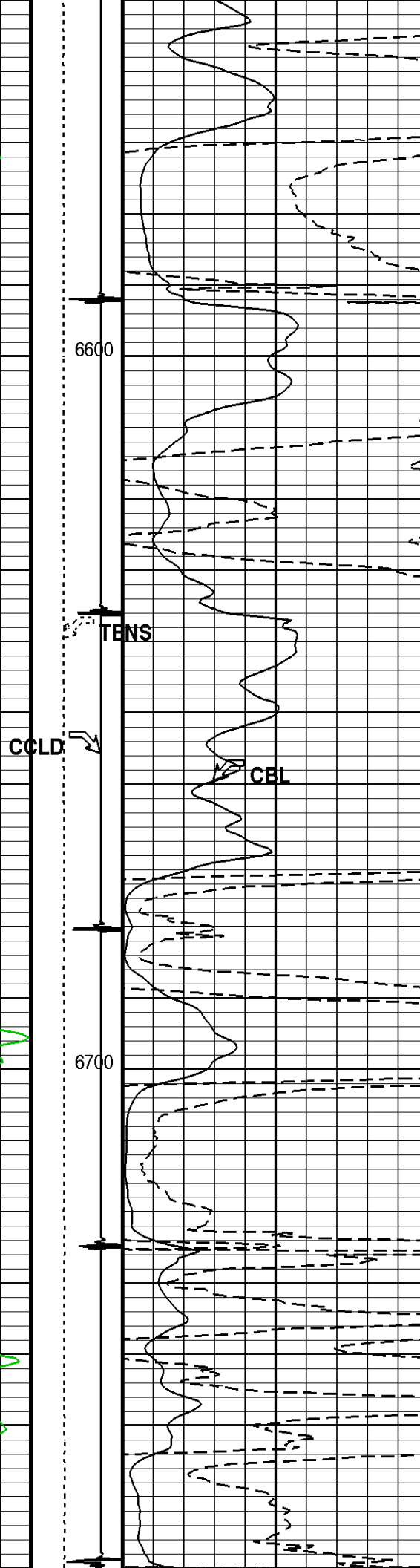
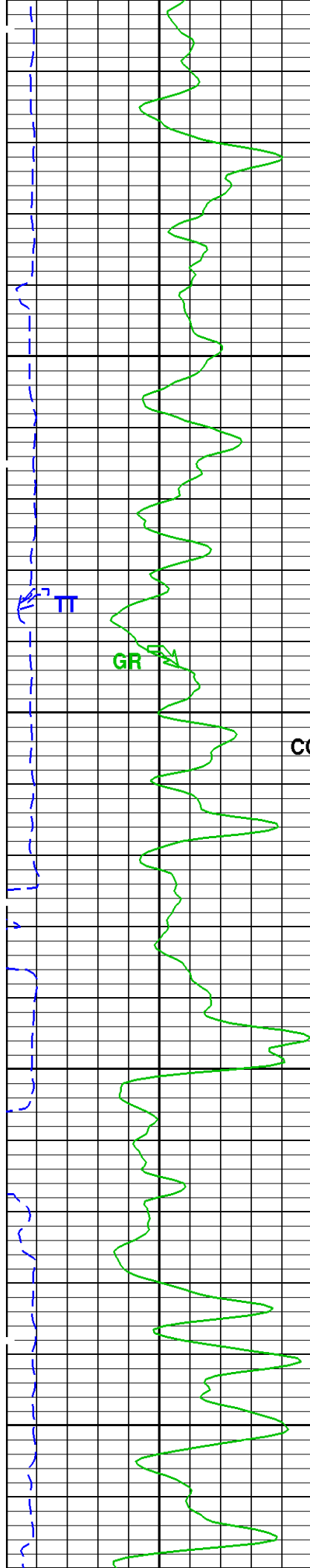


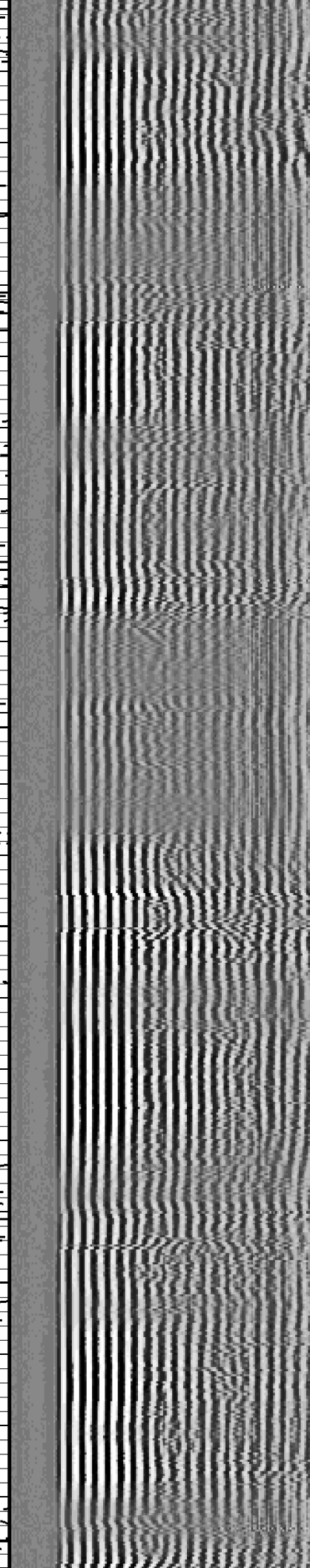
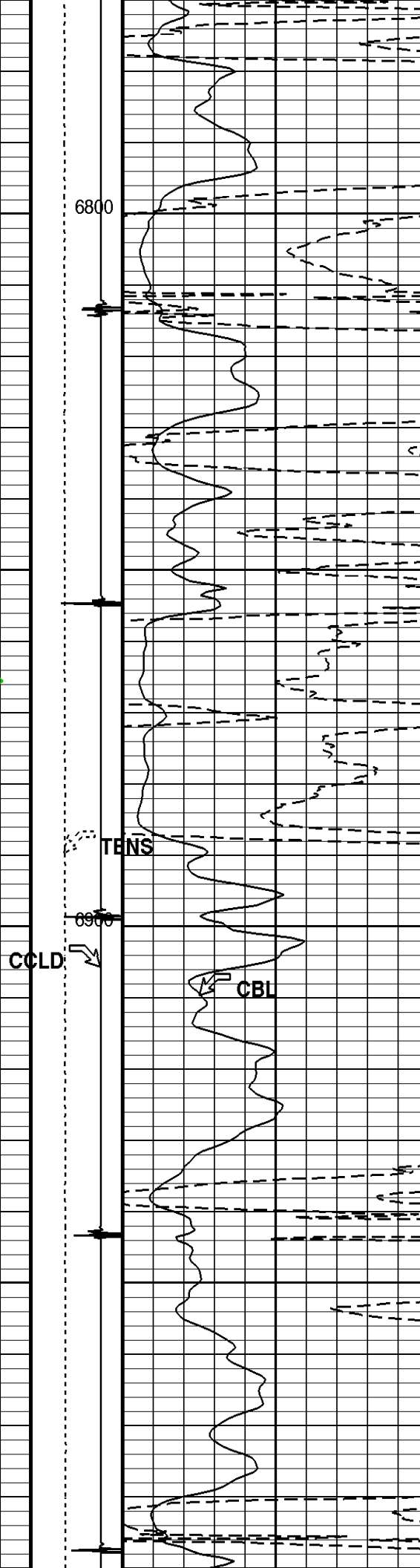
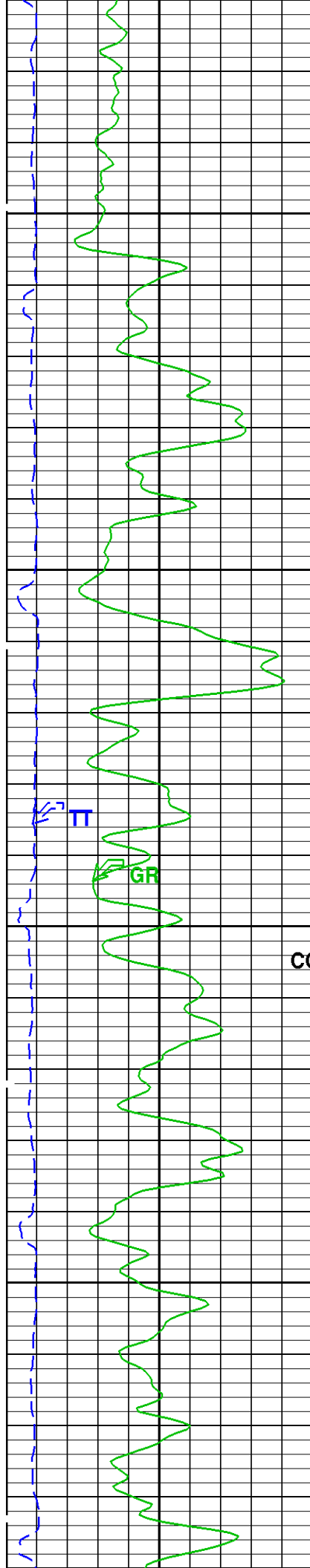


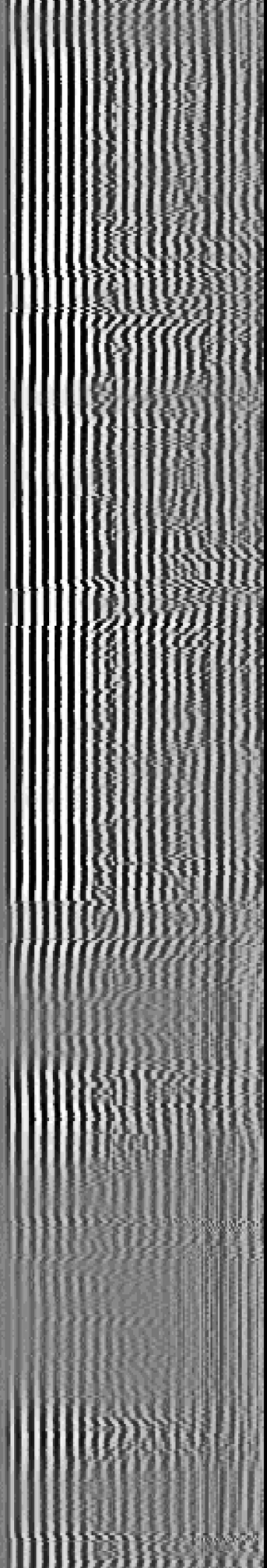
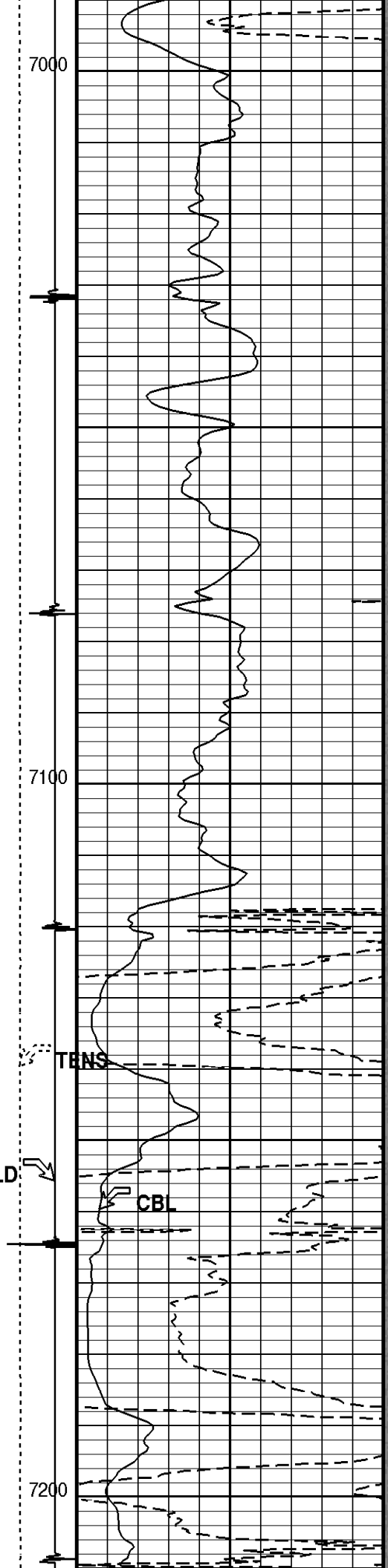
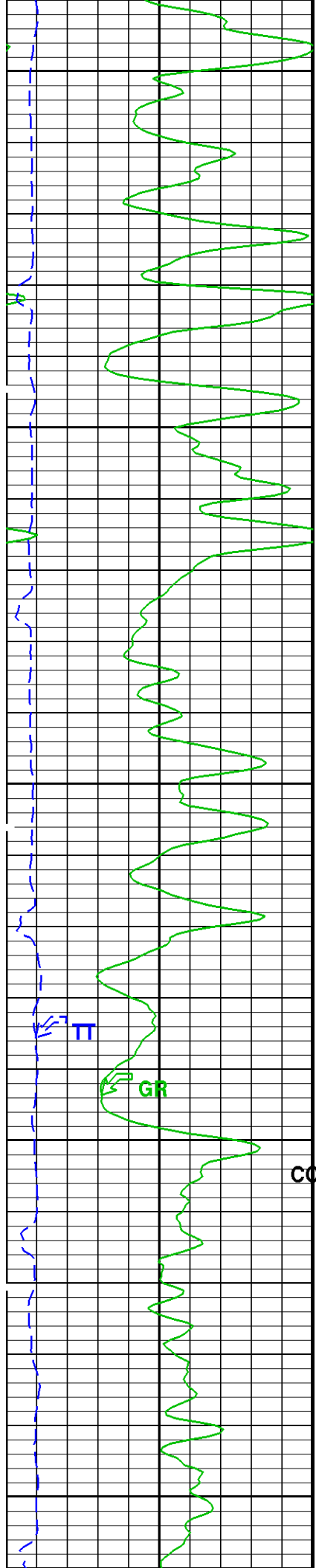


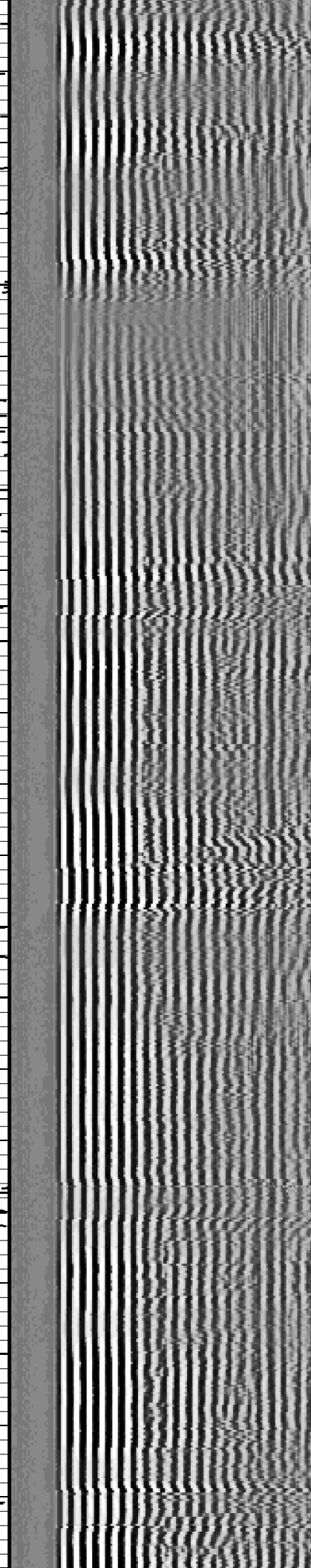
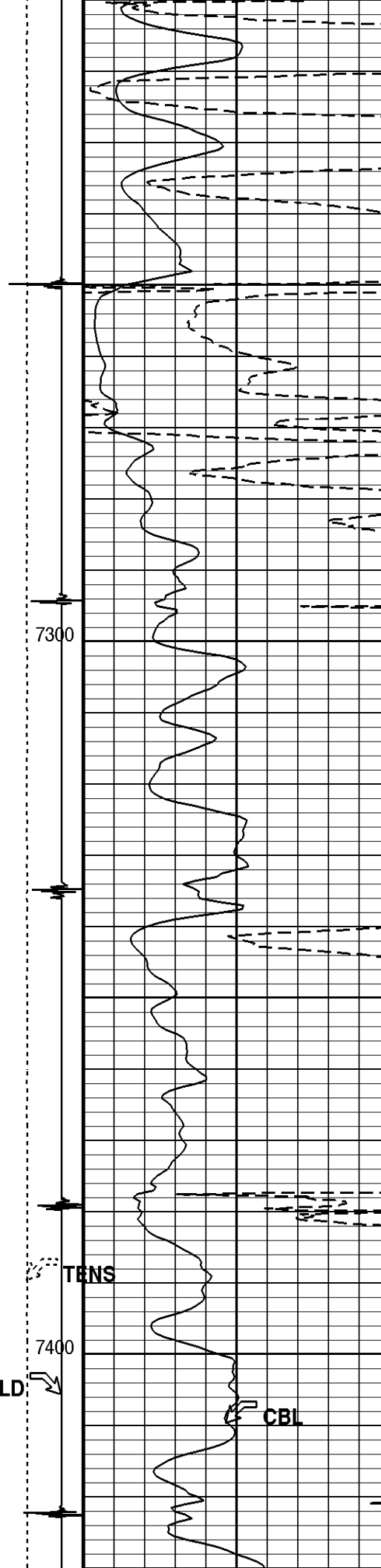


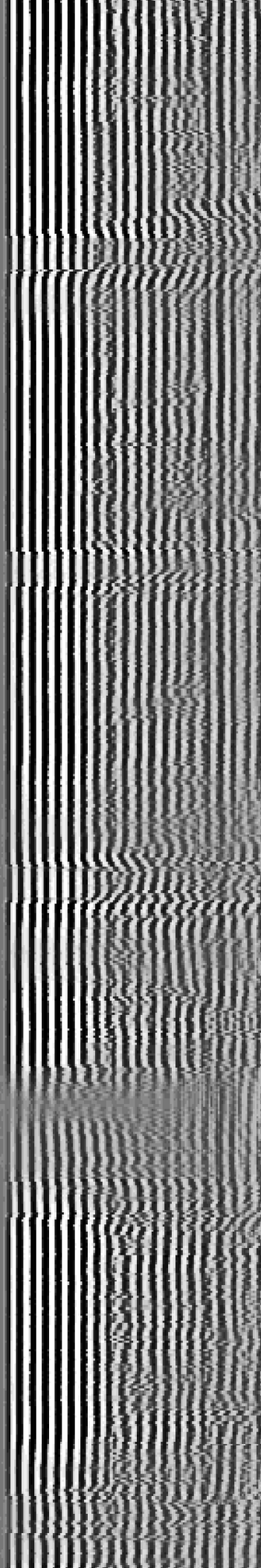
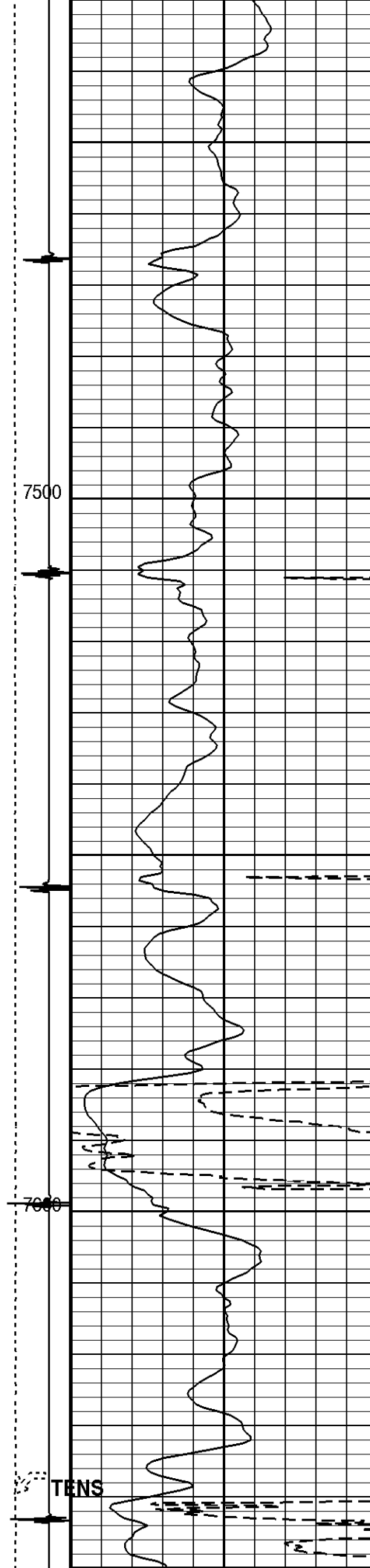
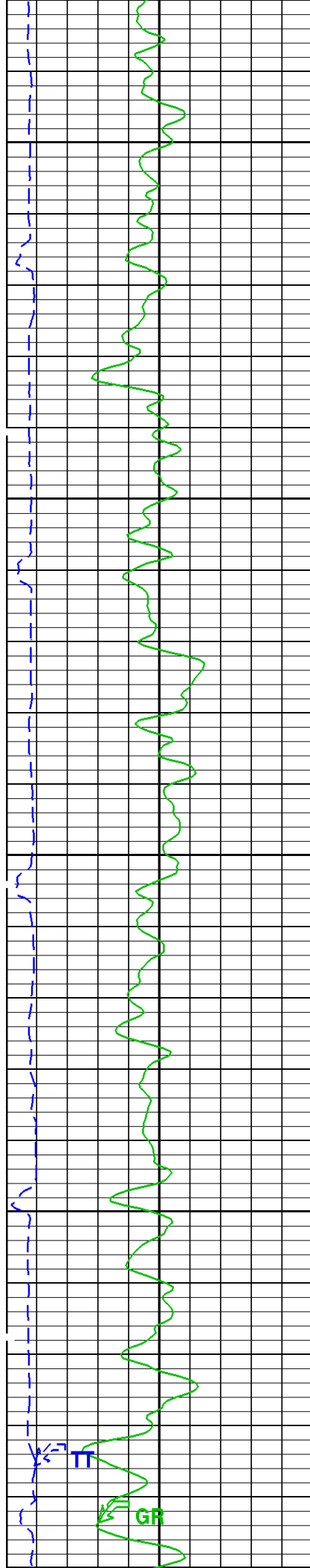


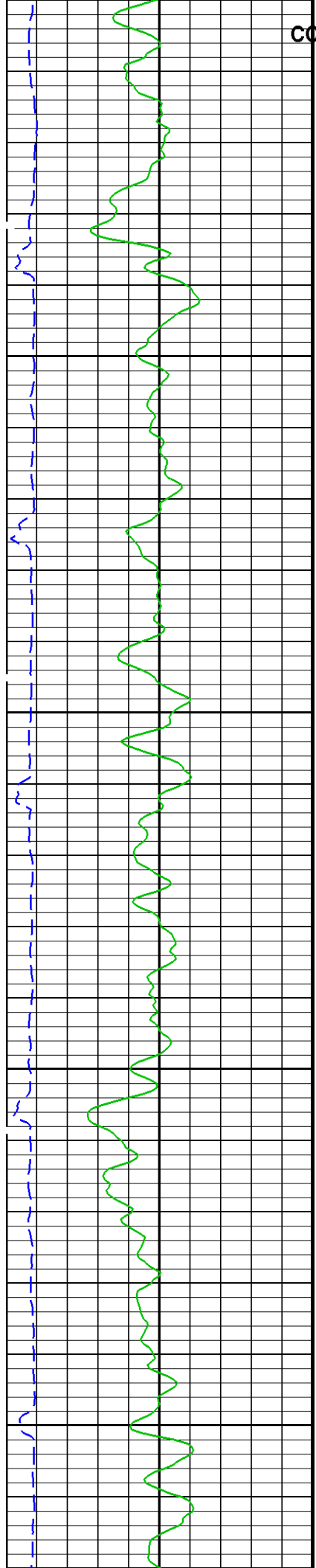










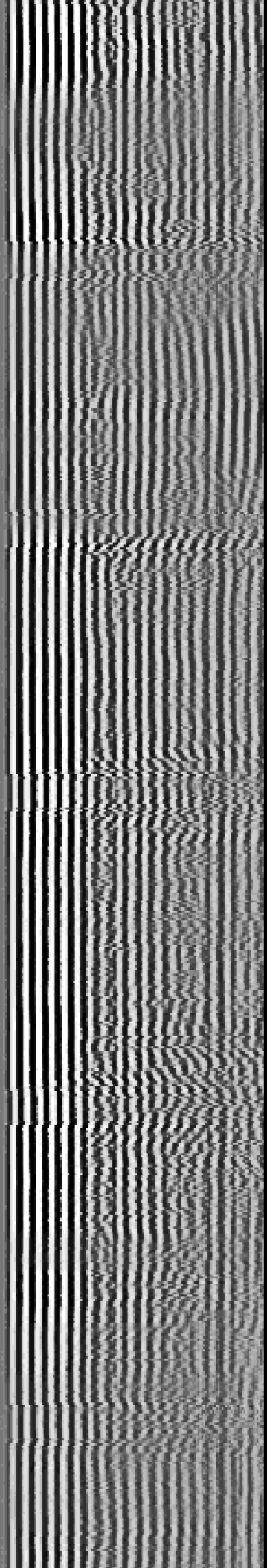
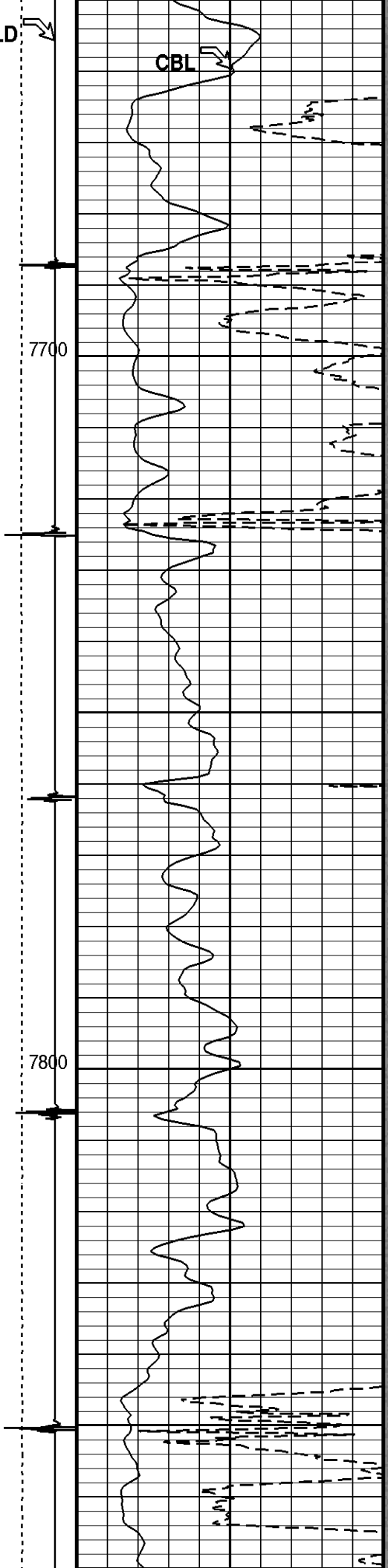


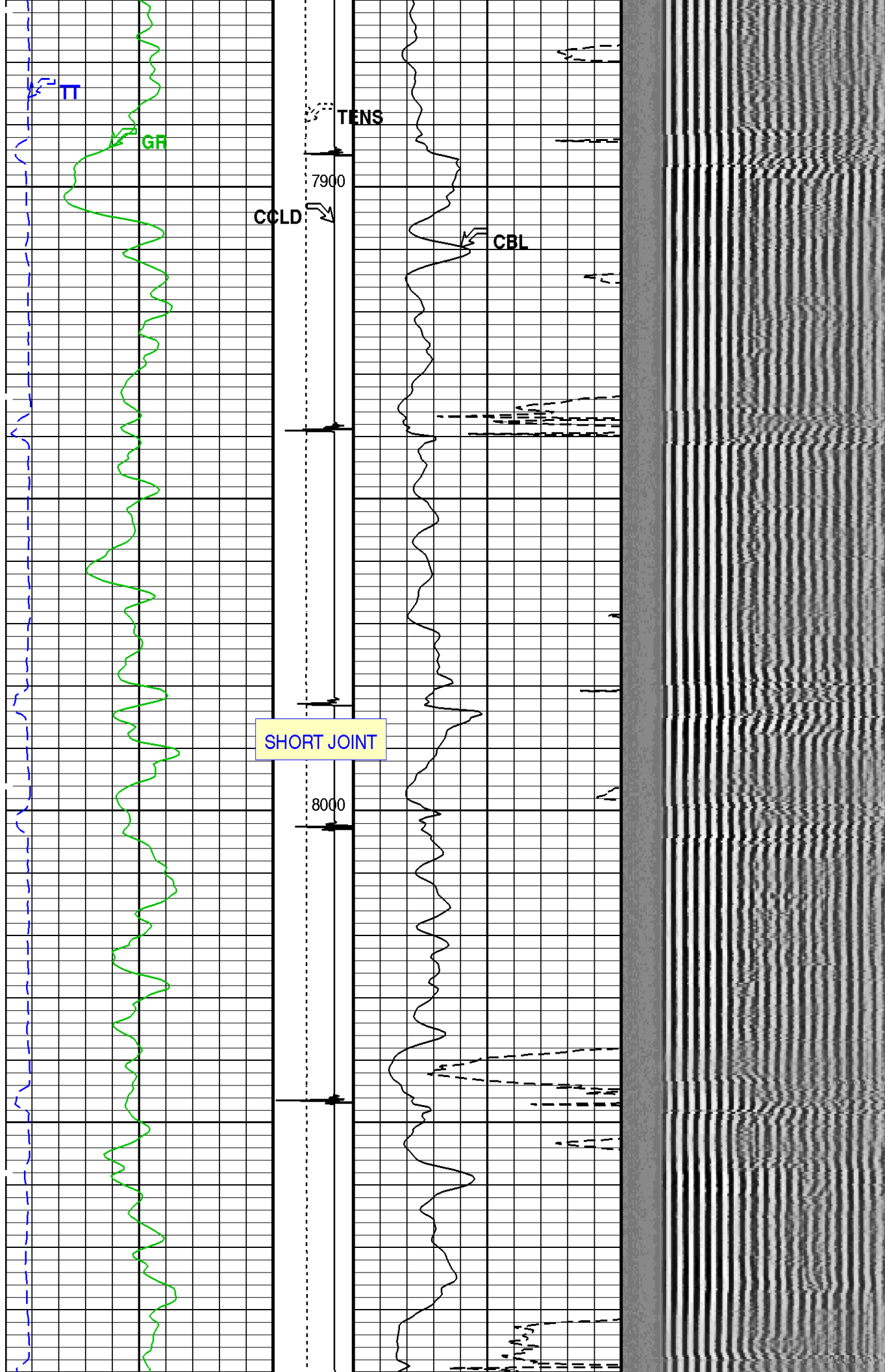
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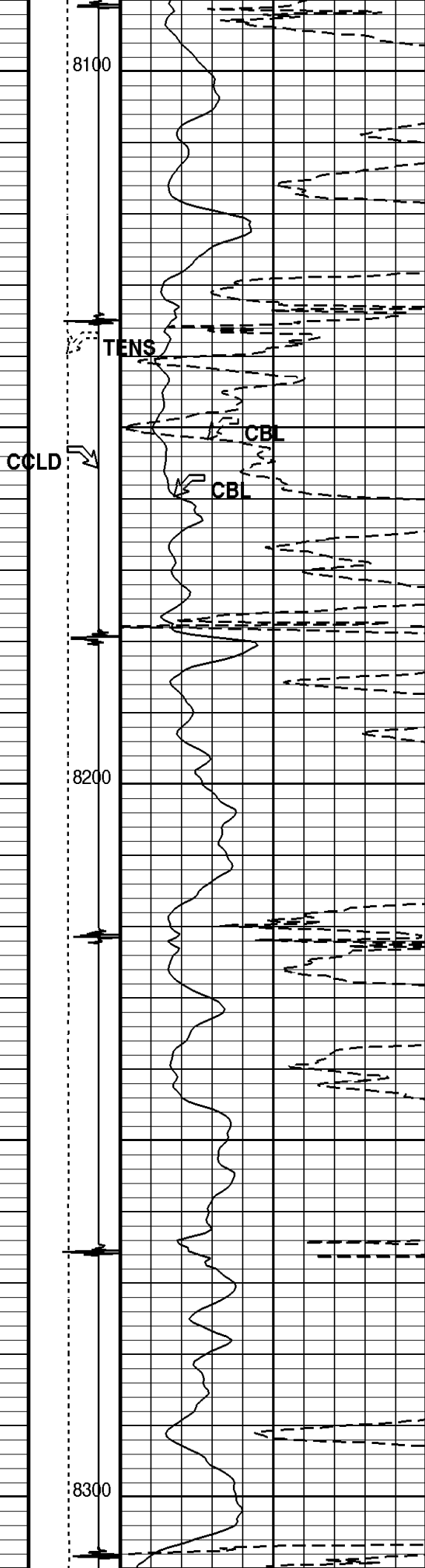
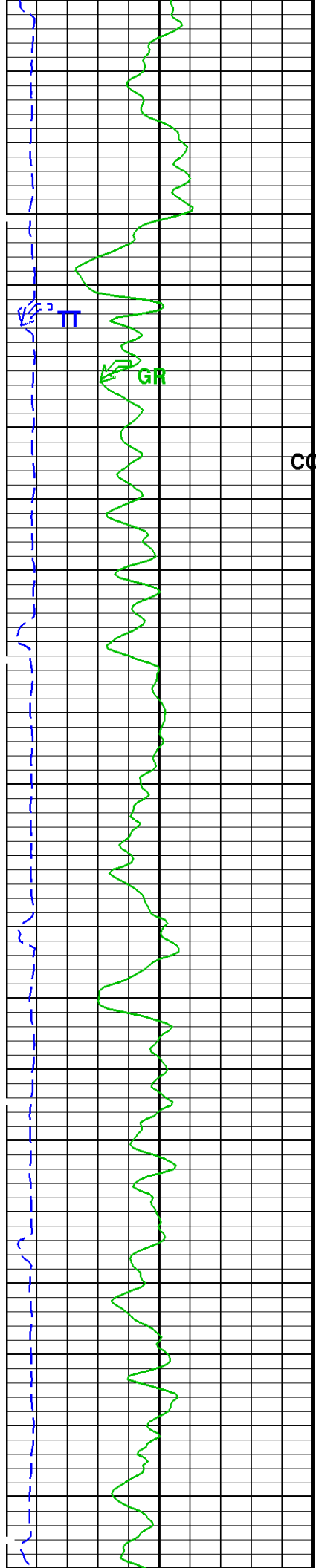
CBL

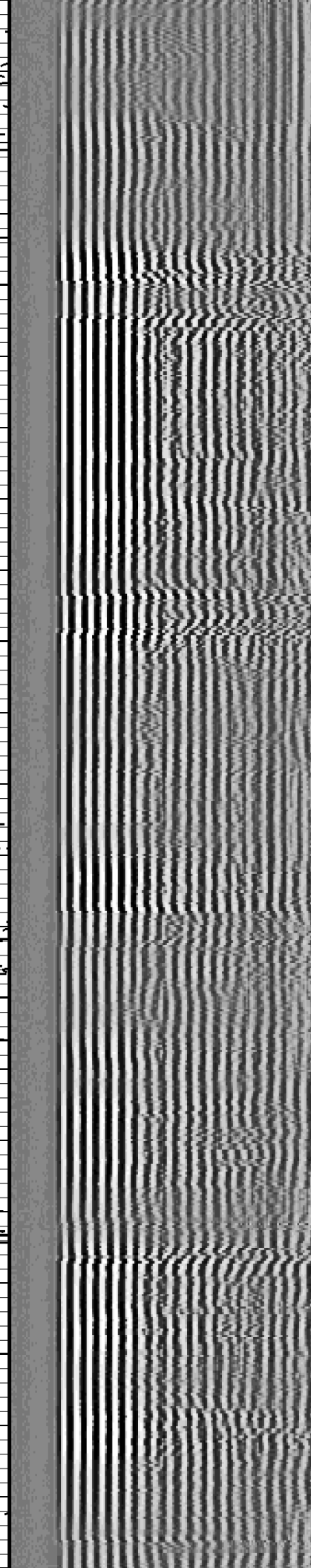
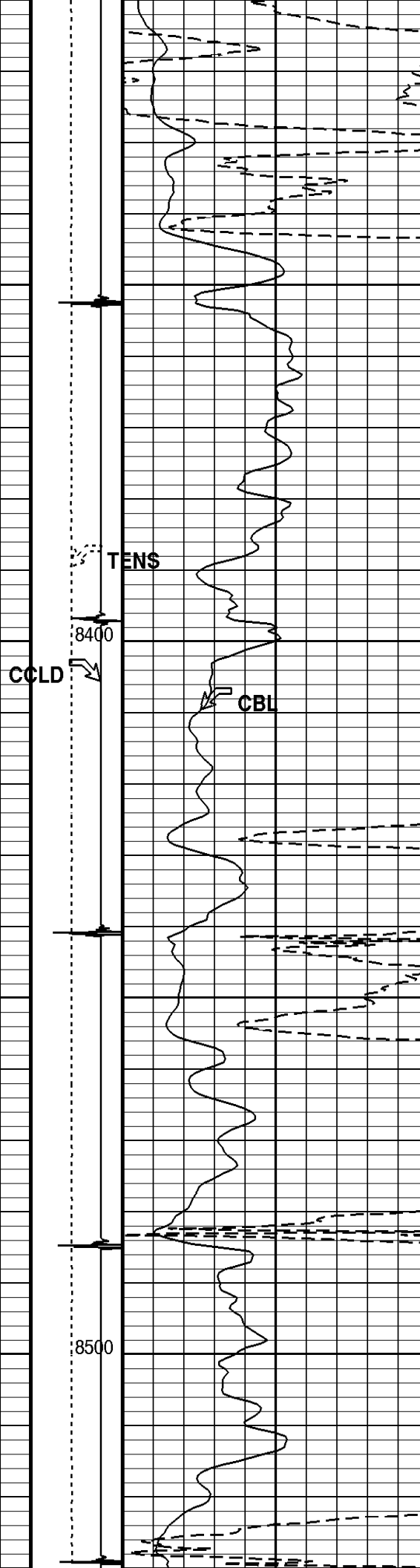
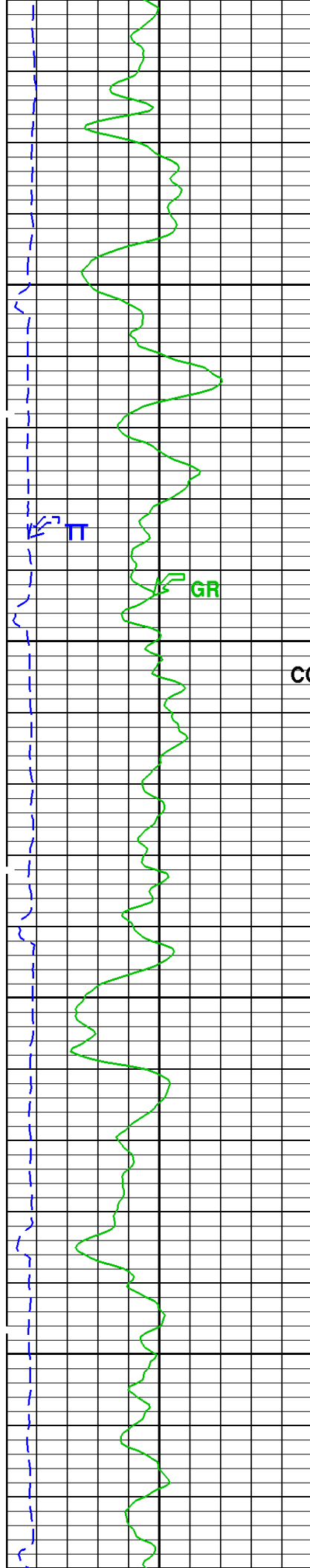
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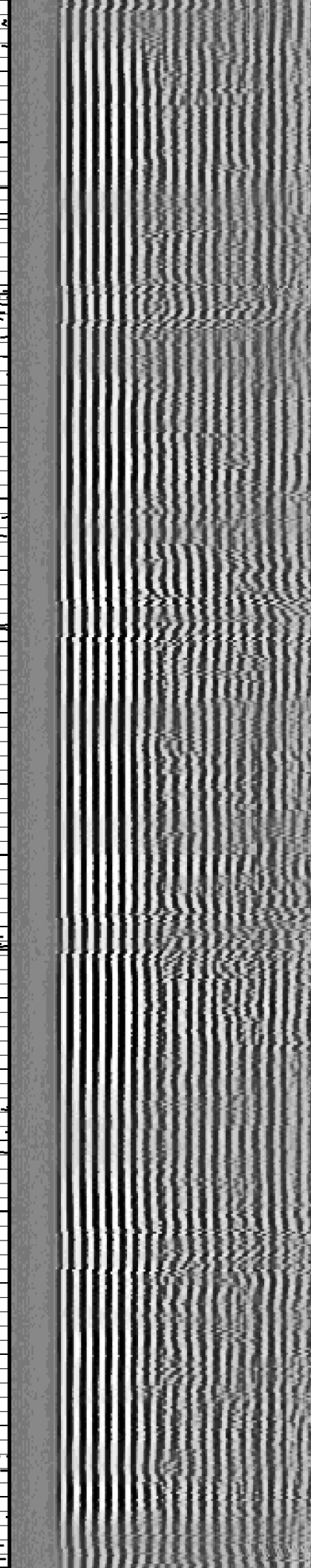
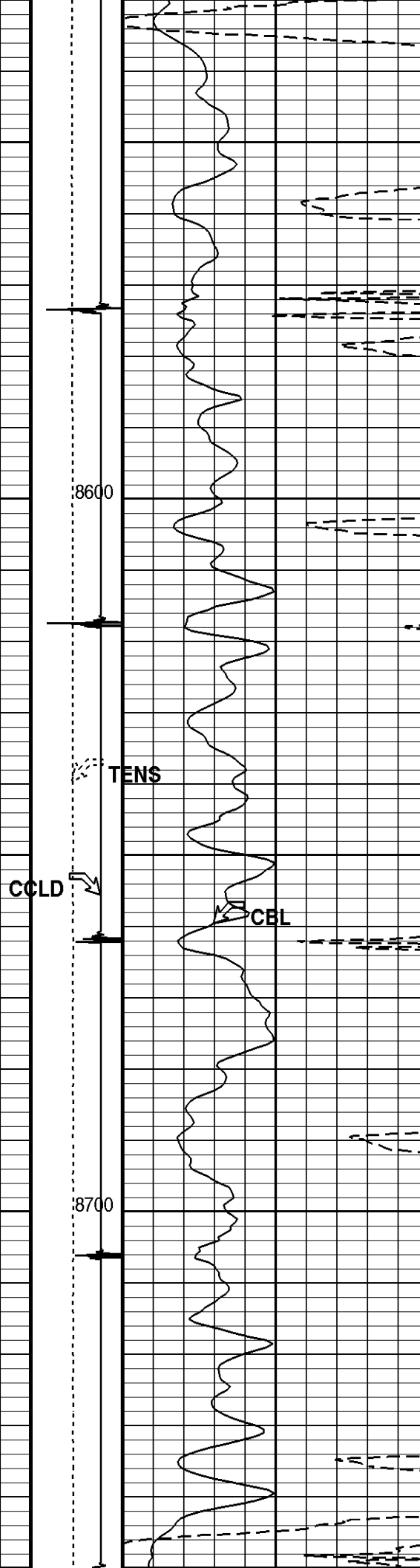
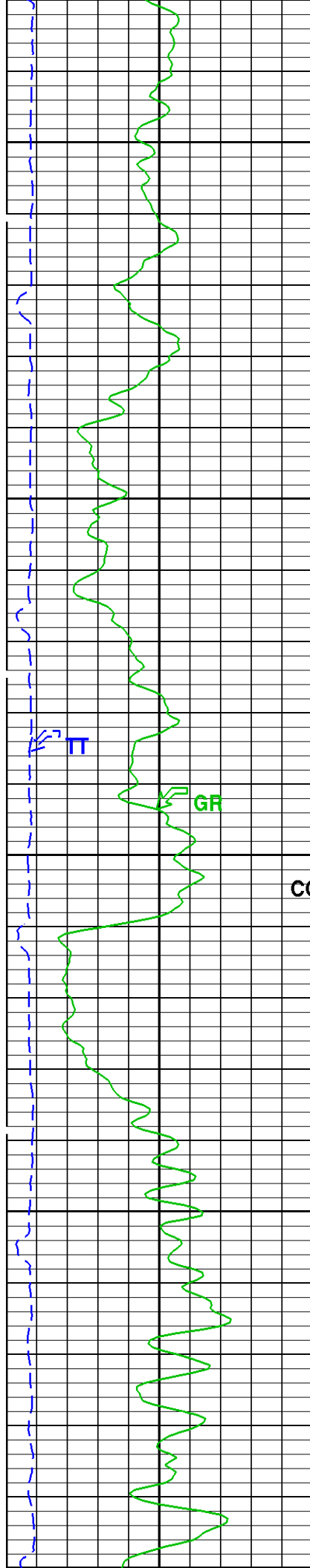
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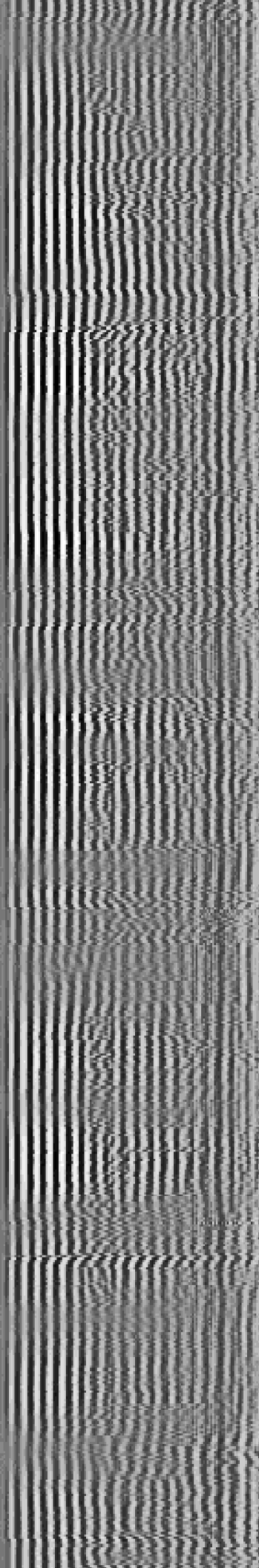
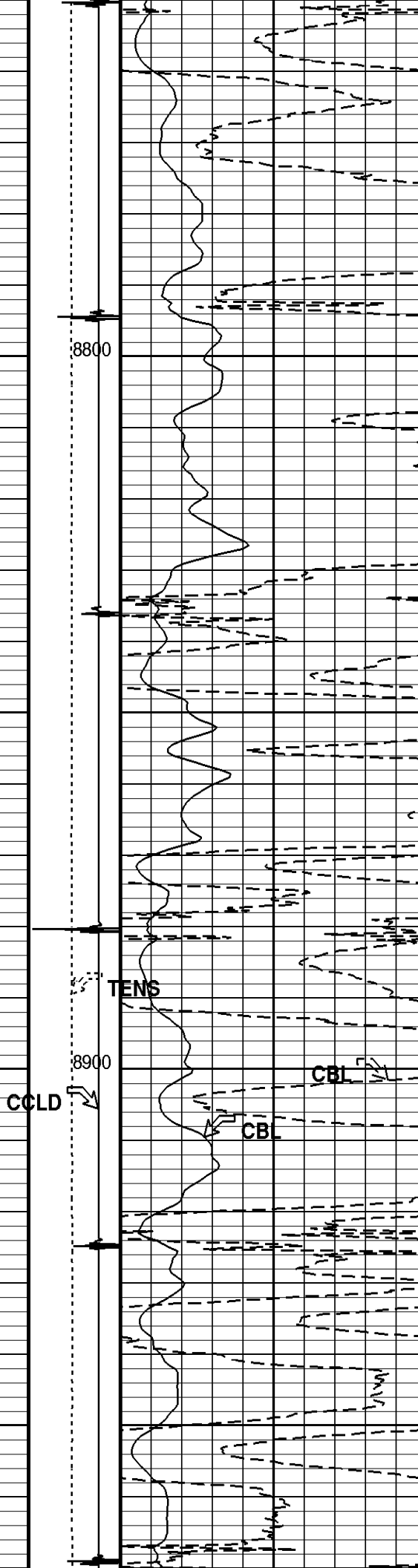
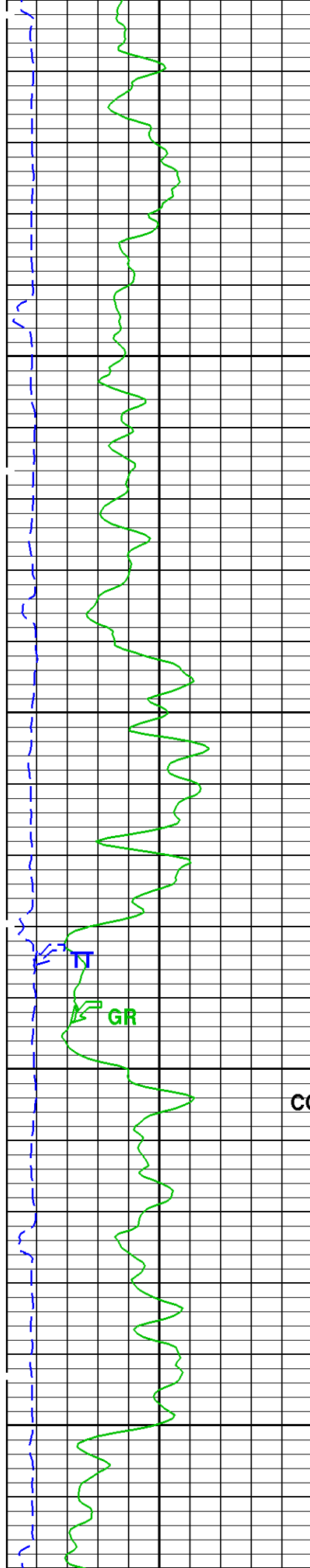


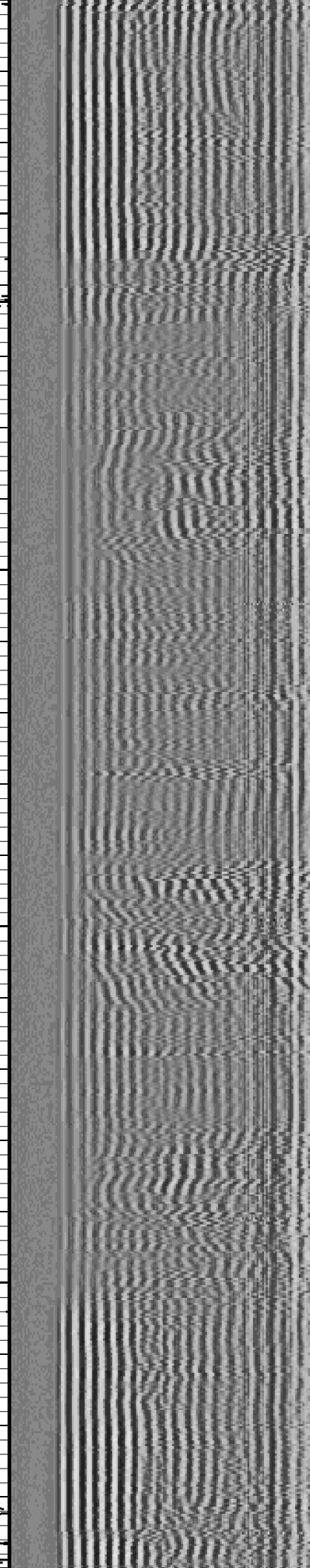
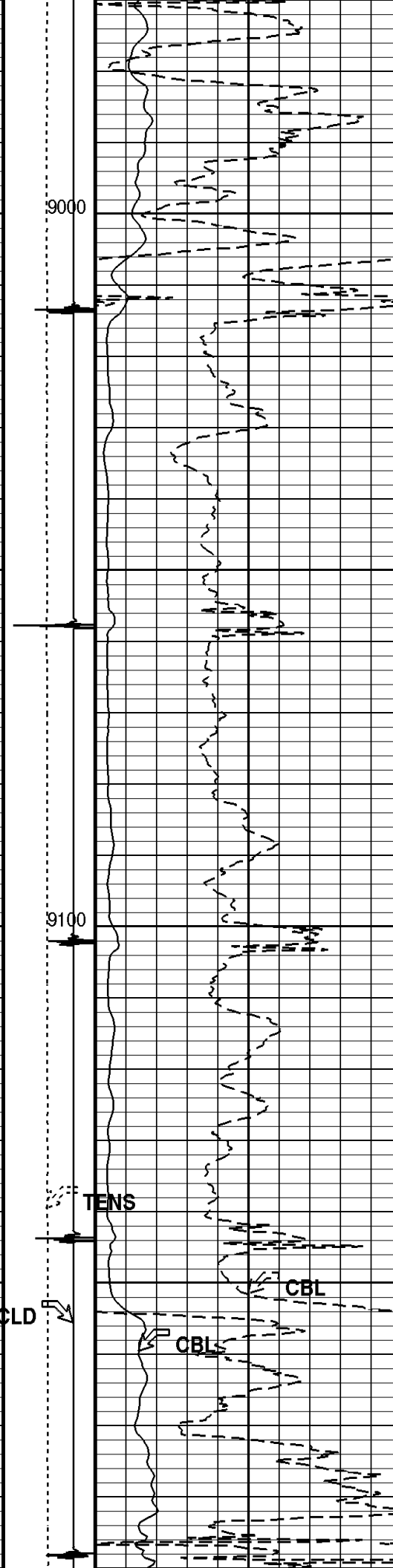
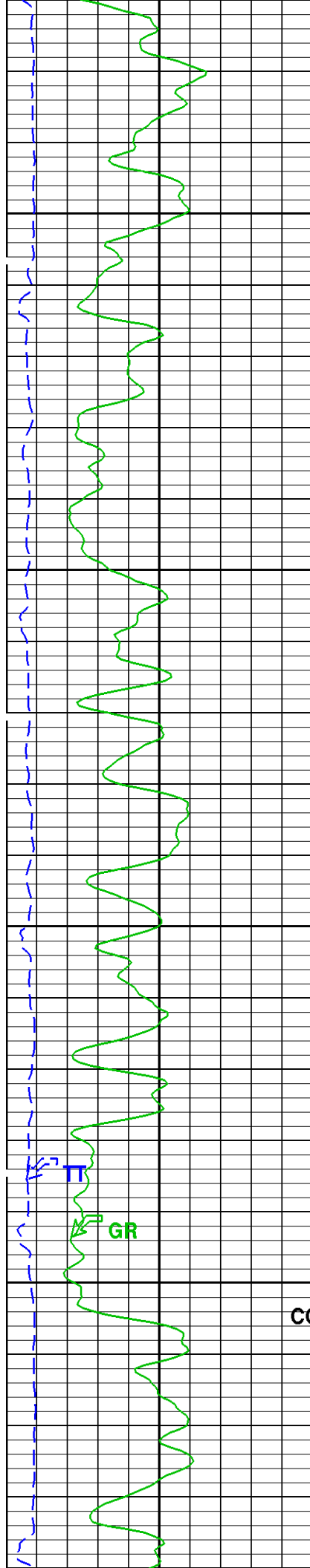


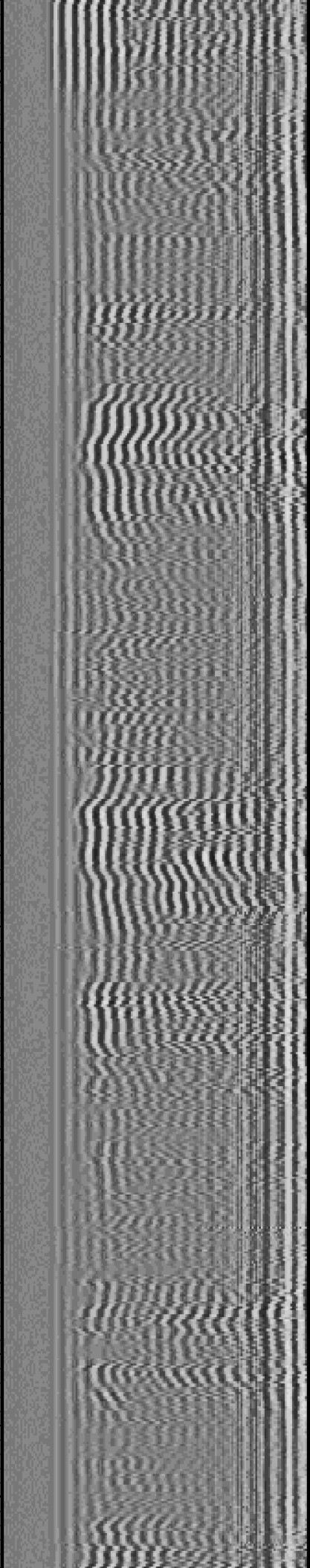
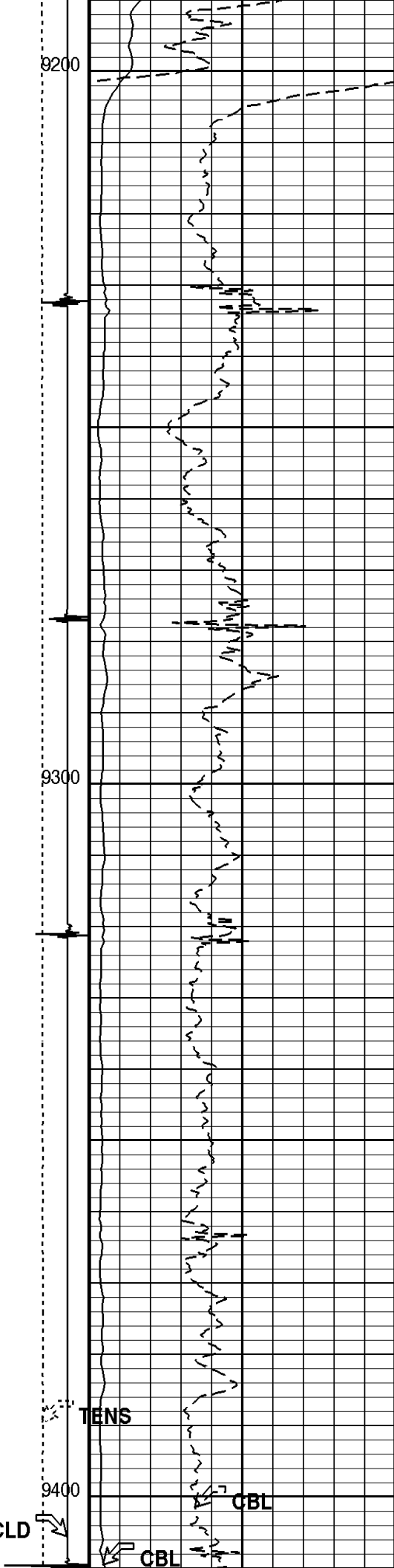
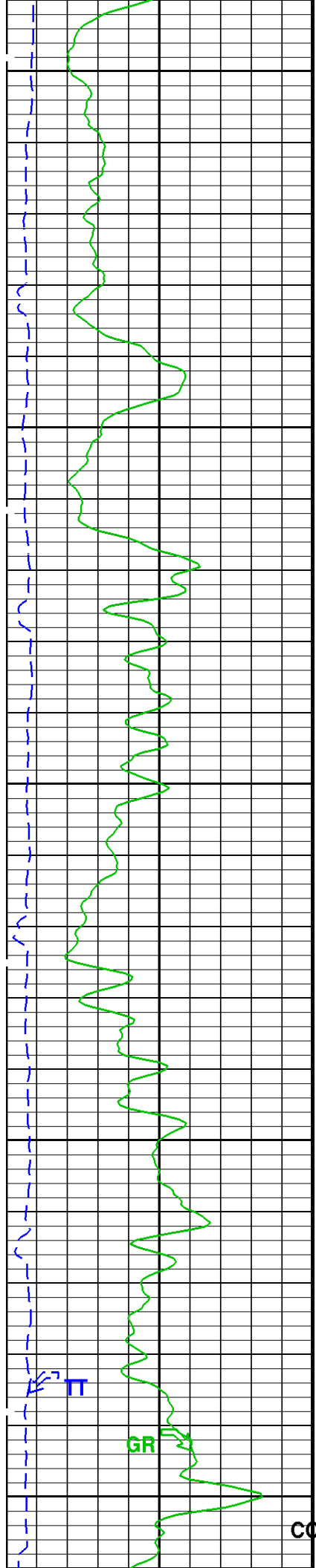


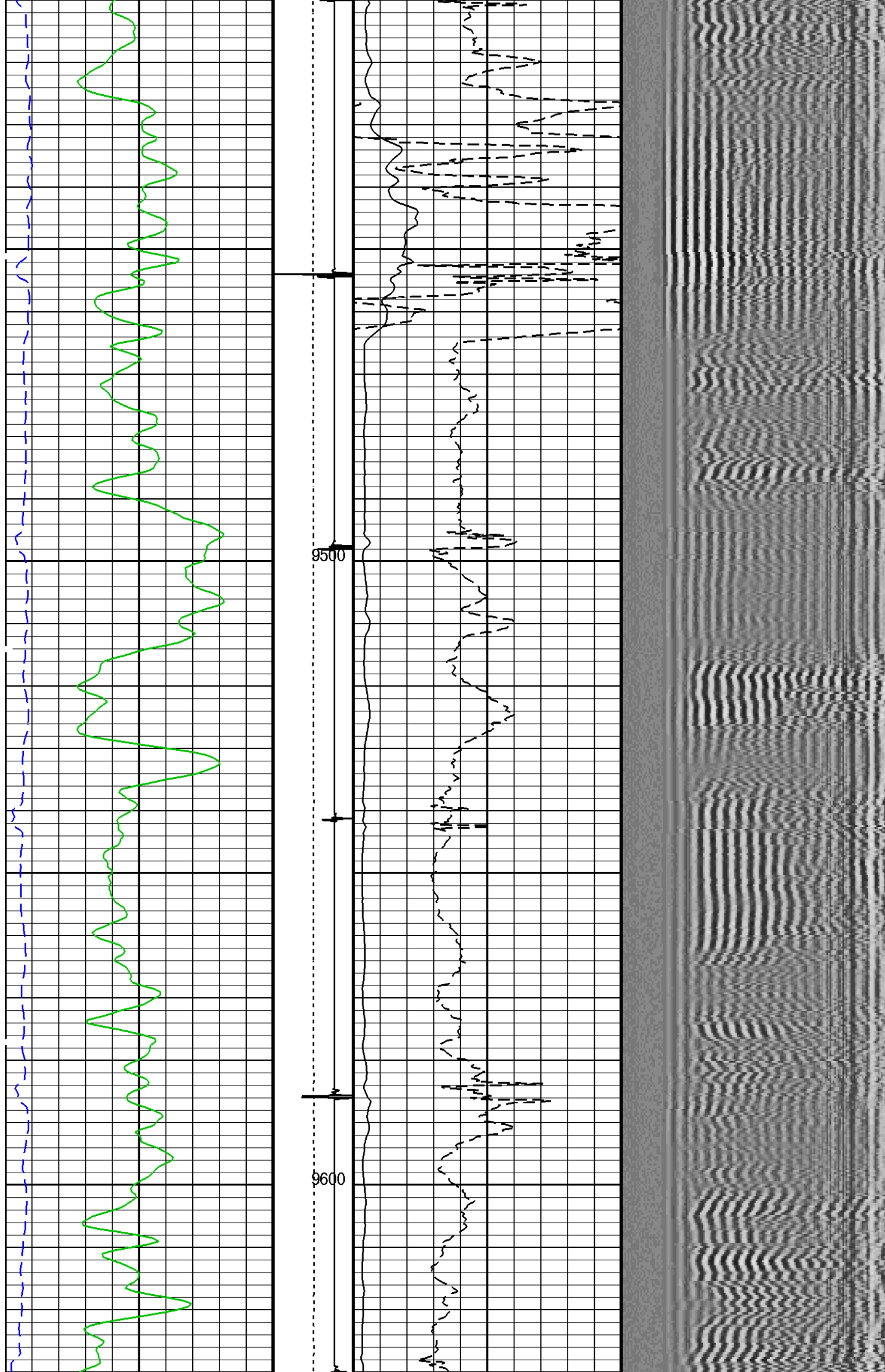


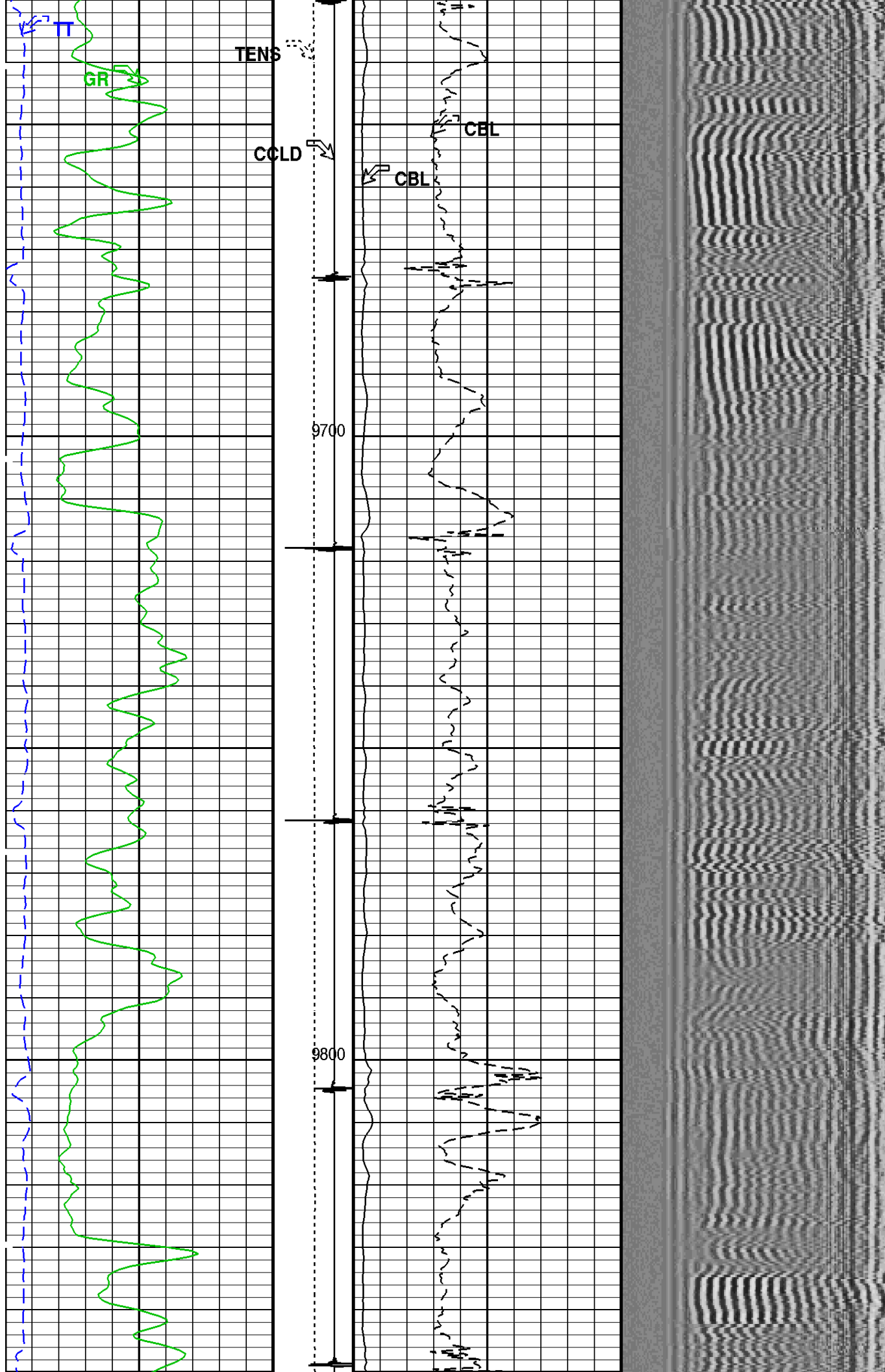


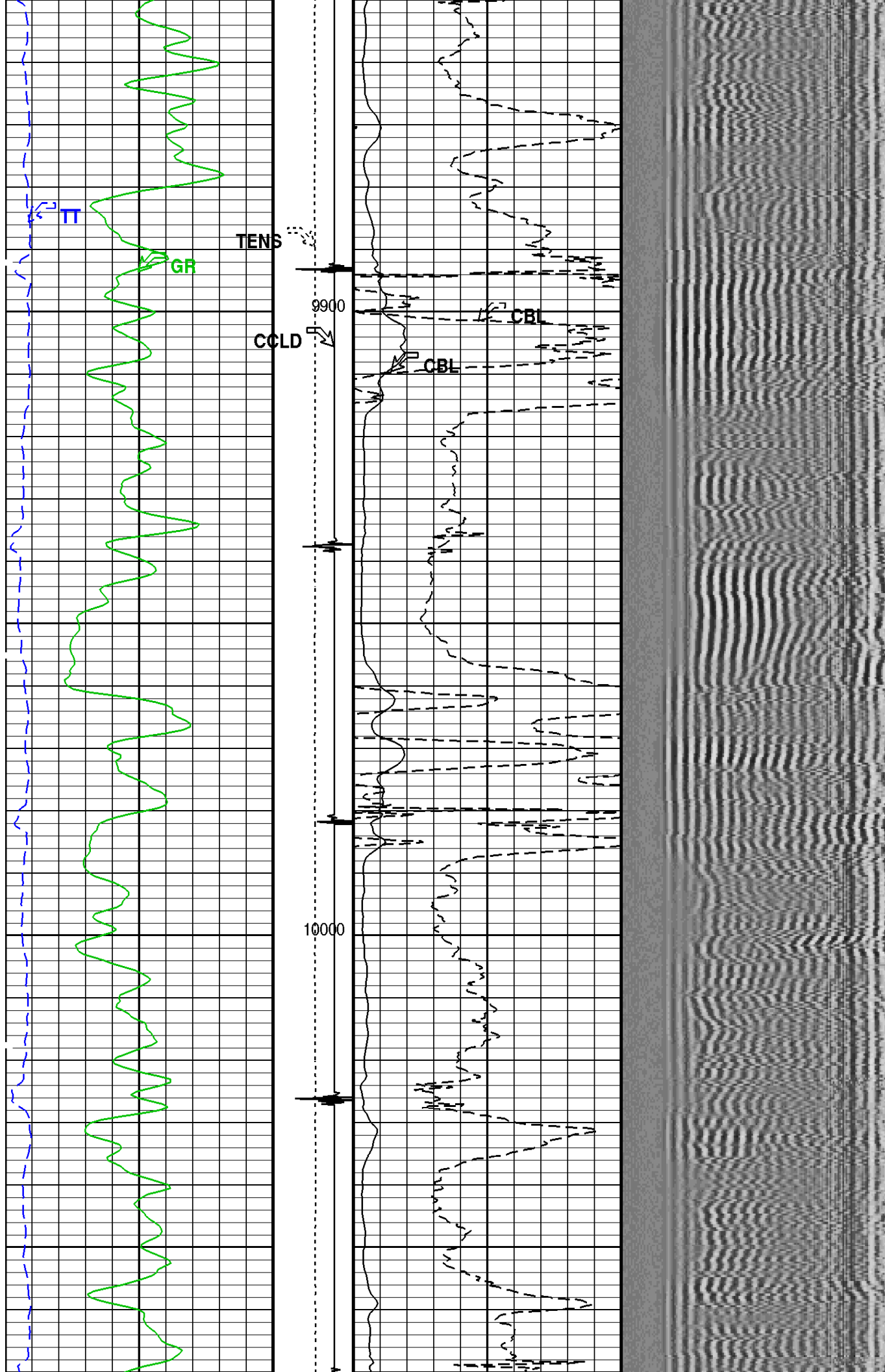


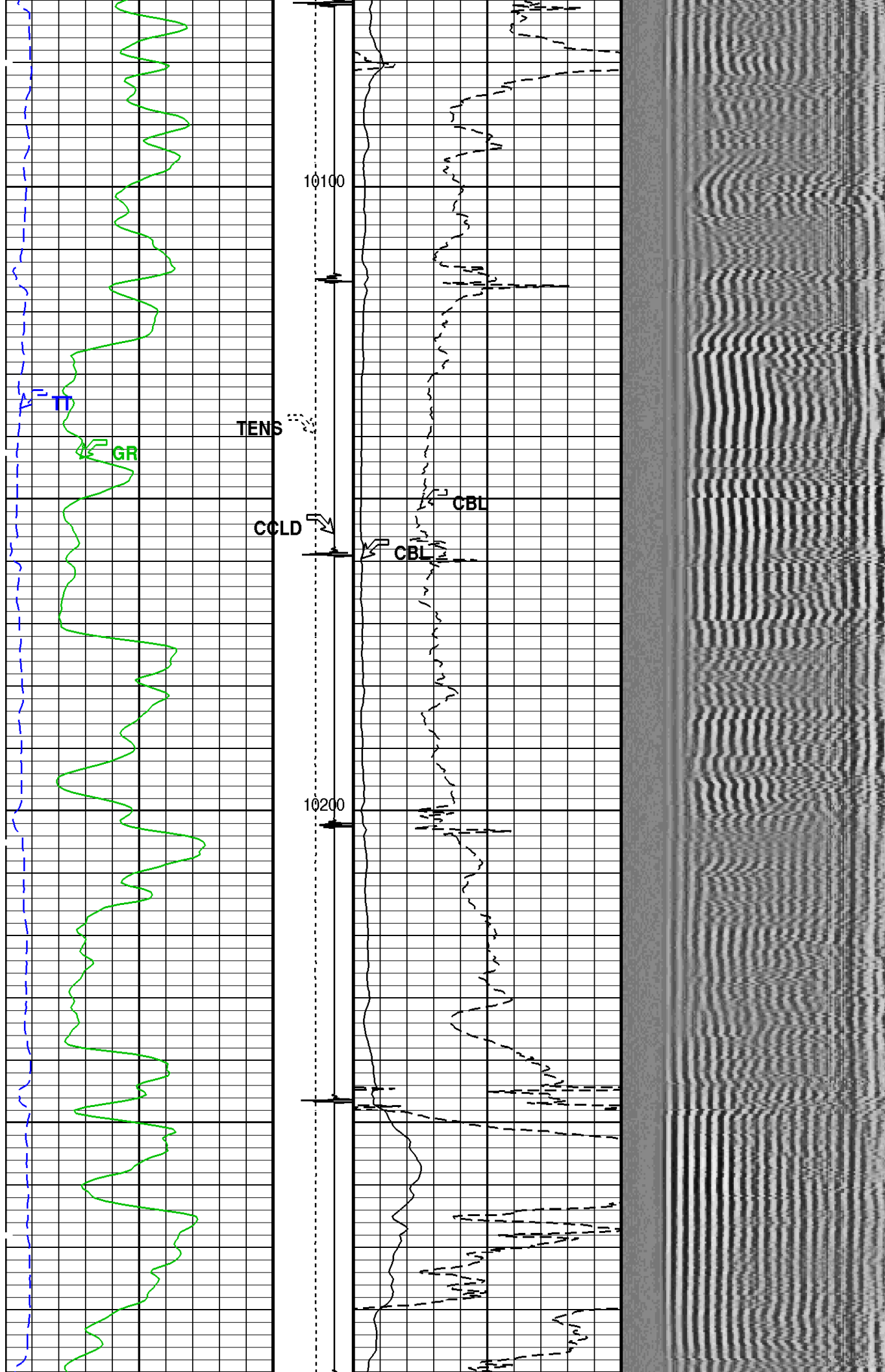


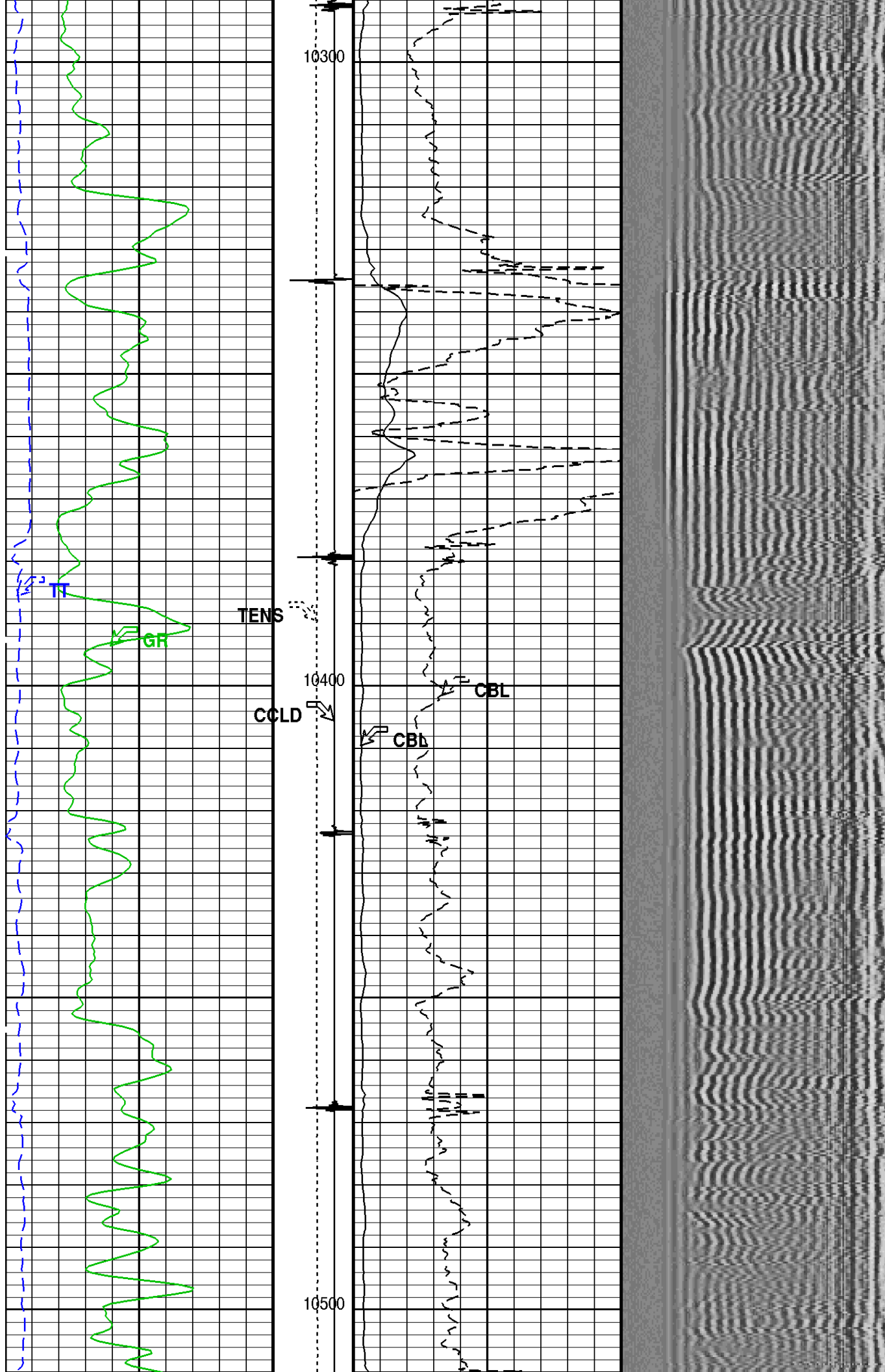


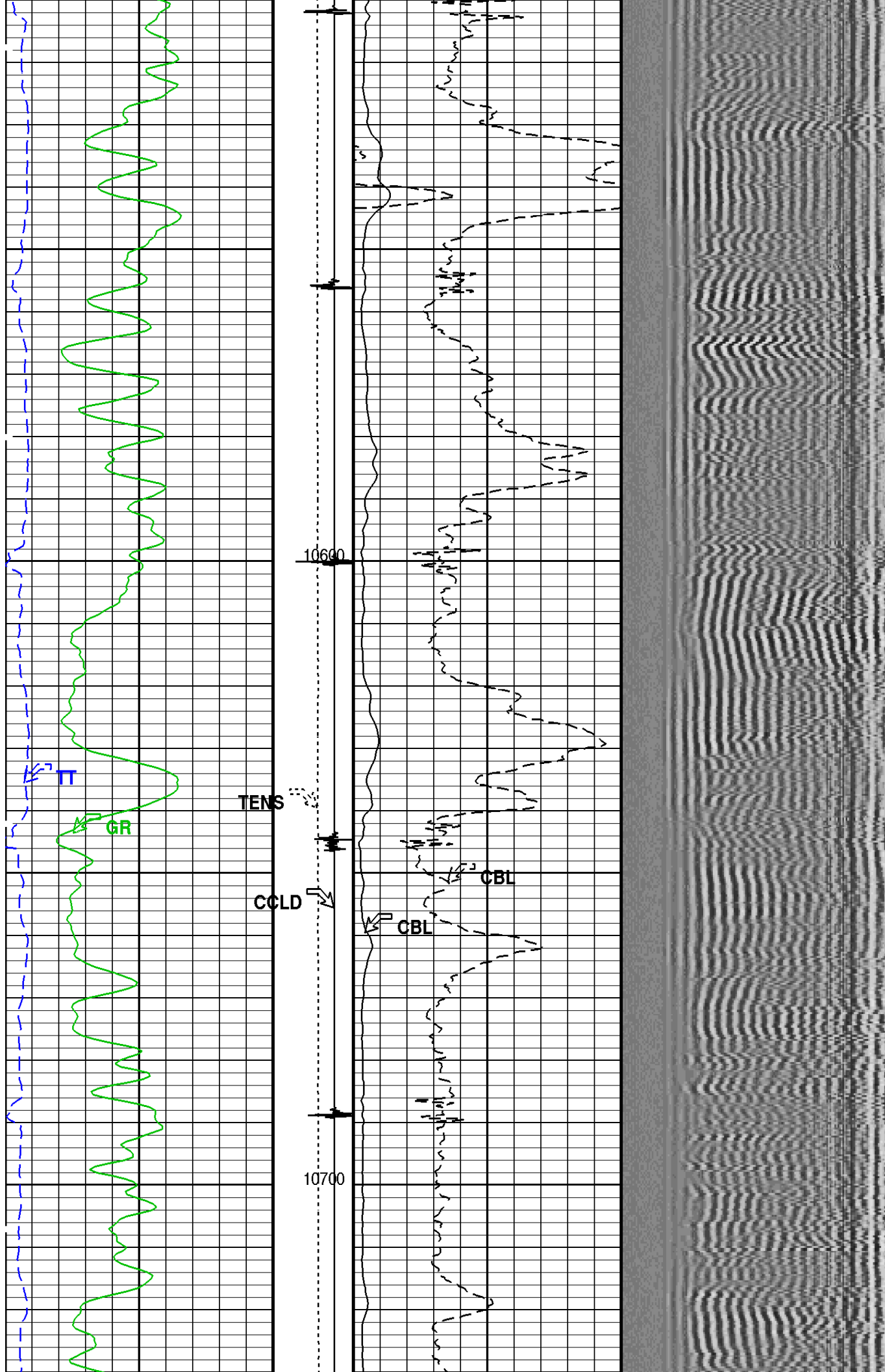


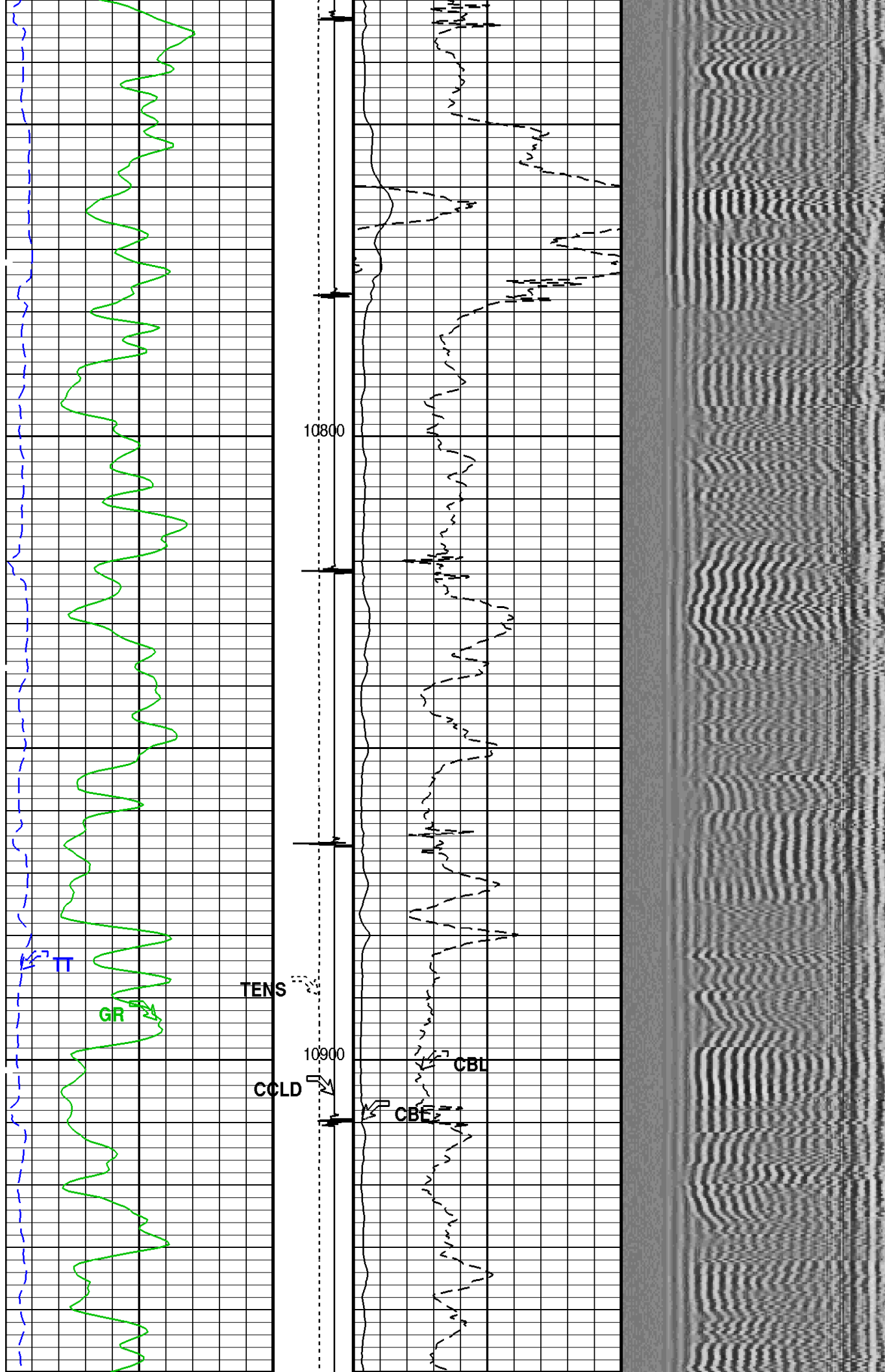


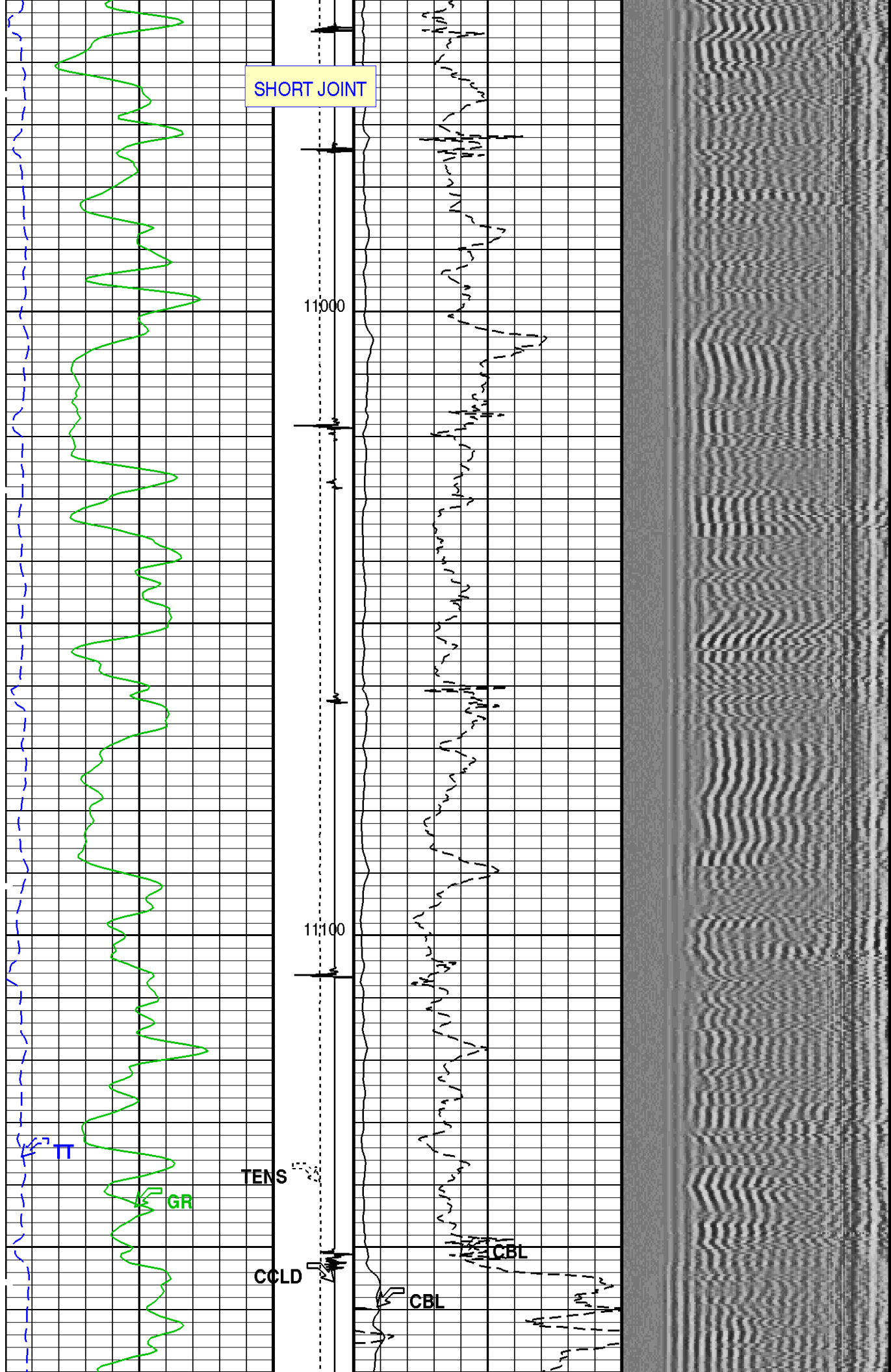


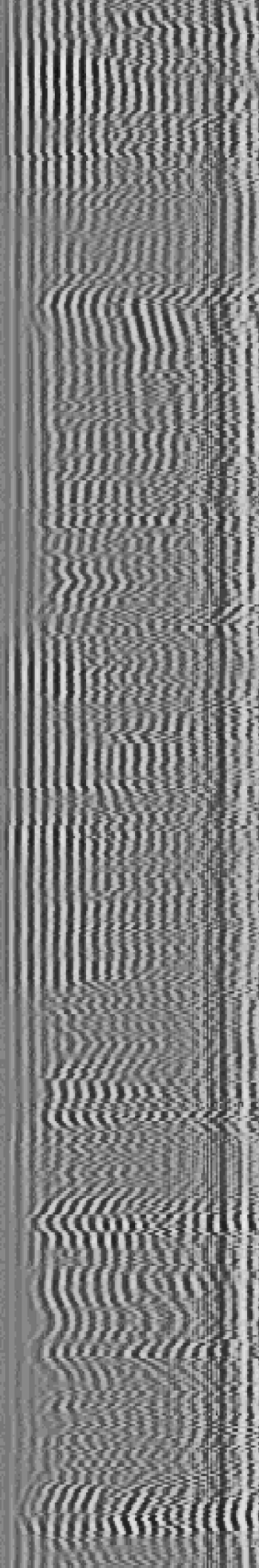
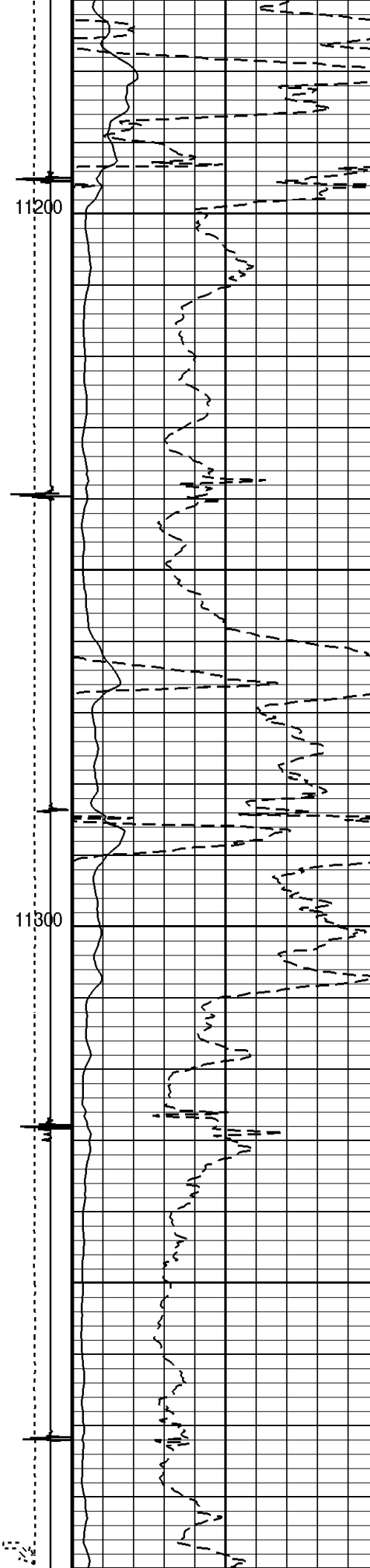
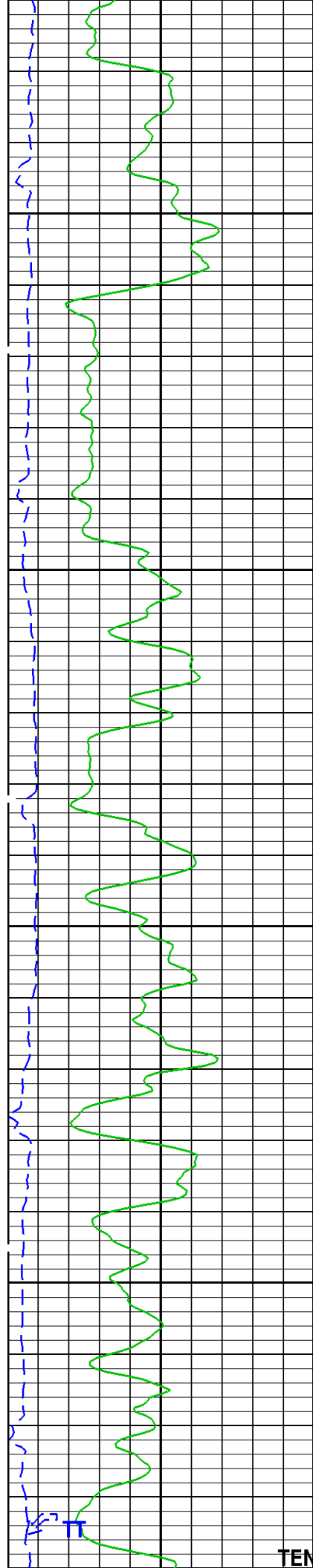


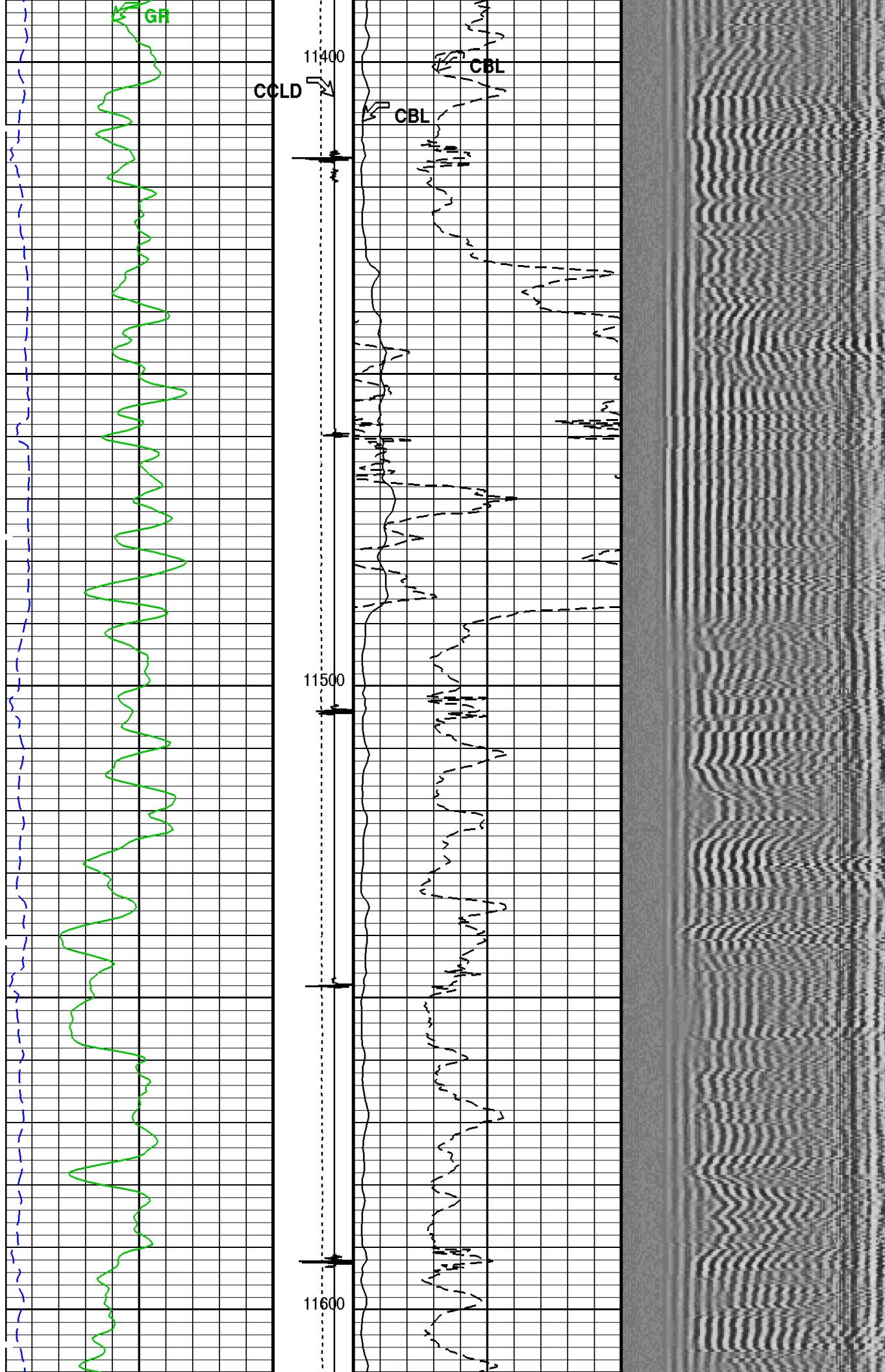


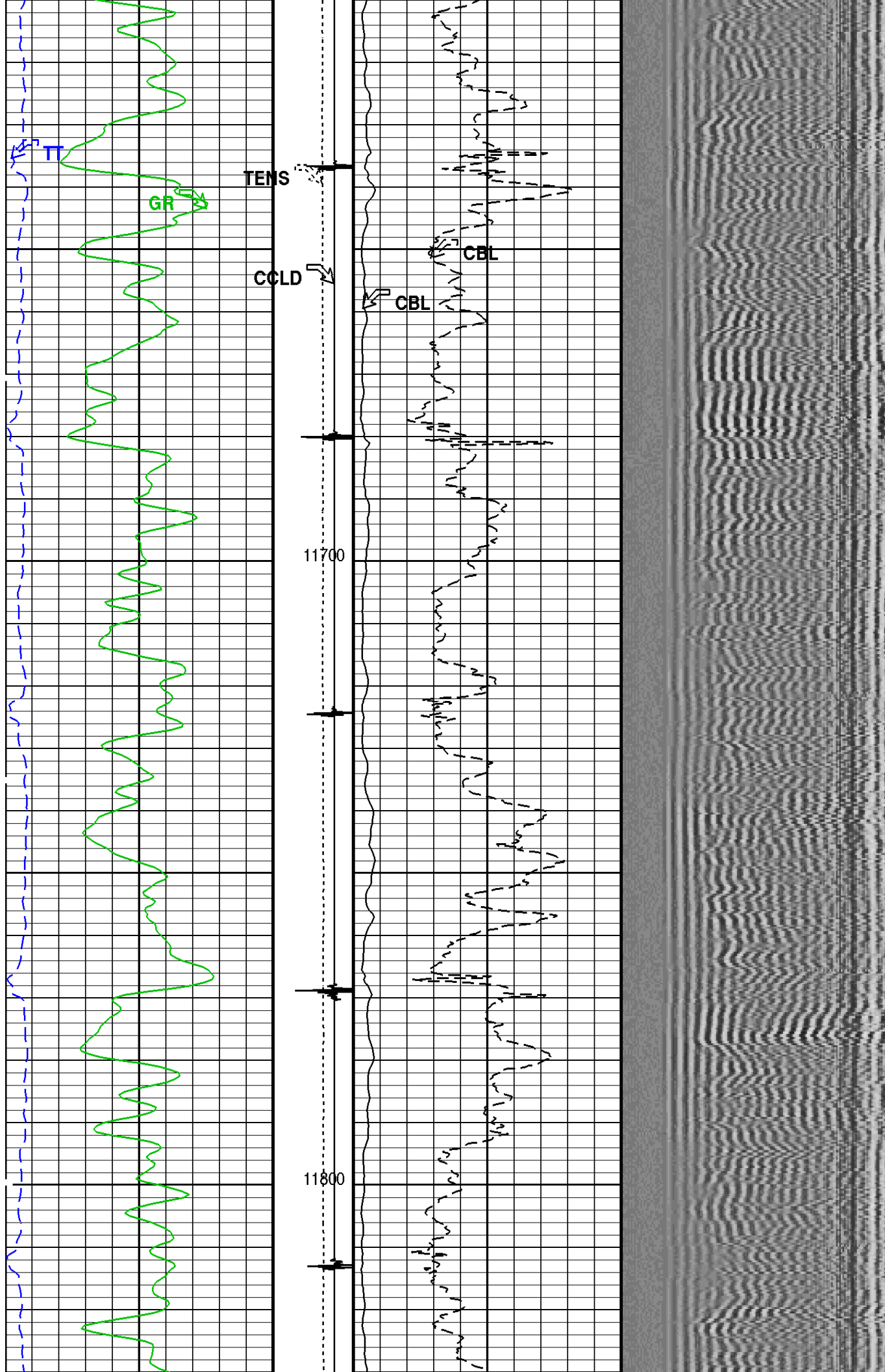


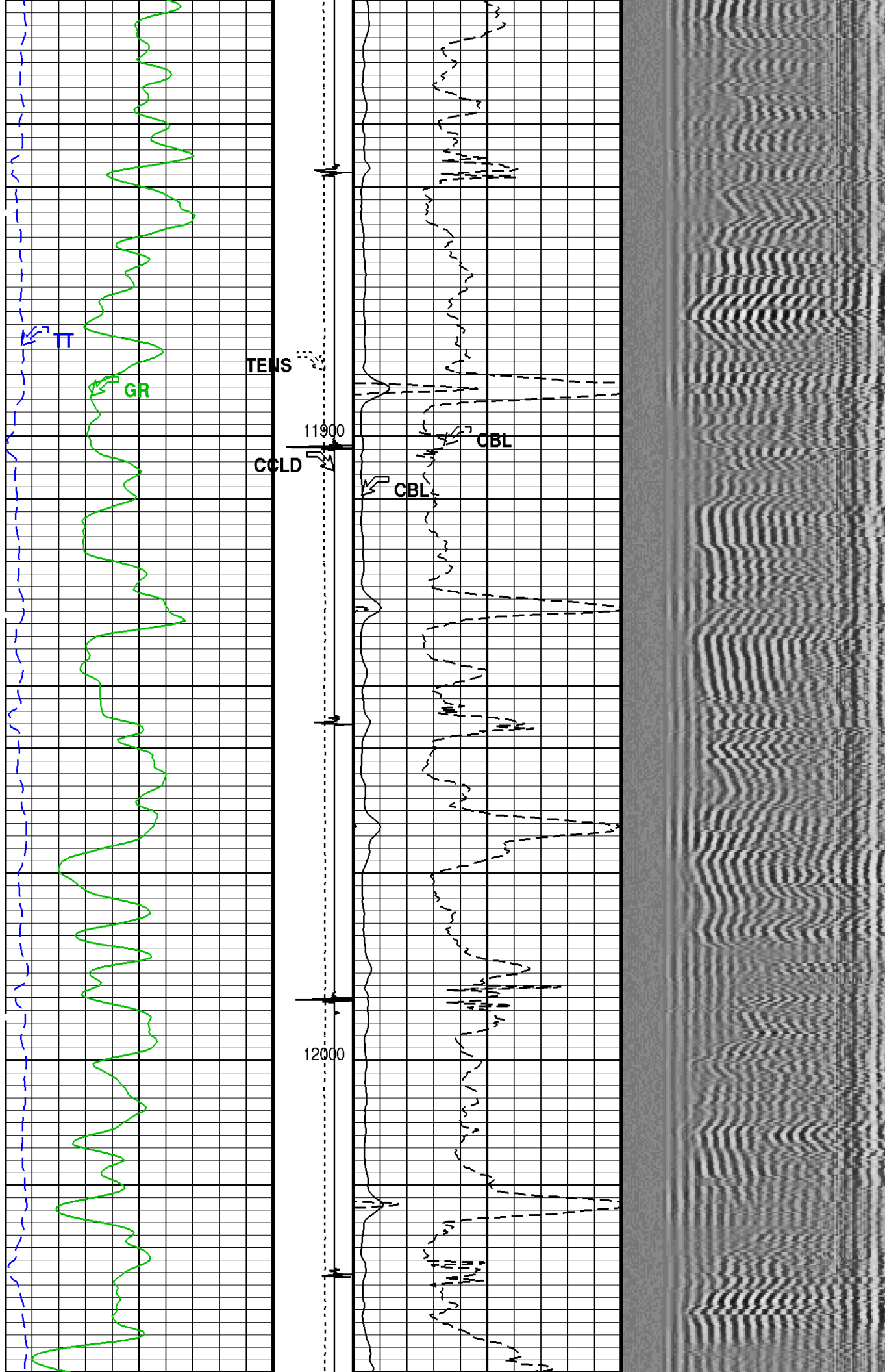


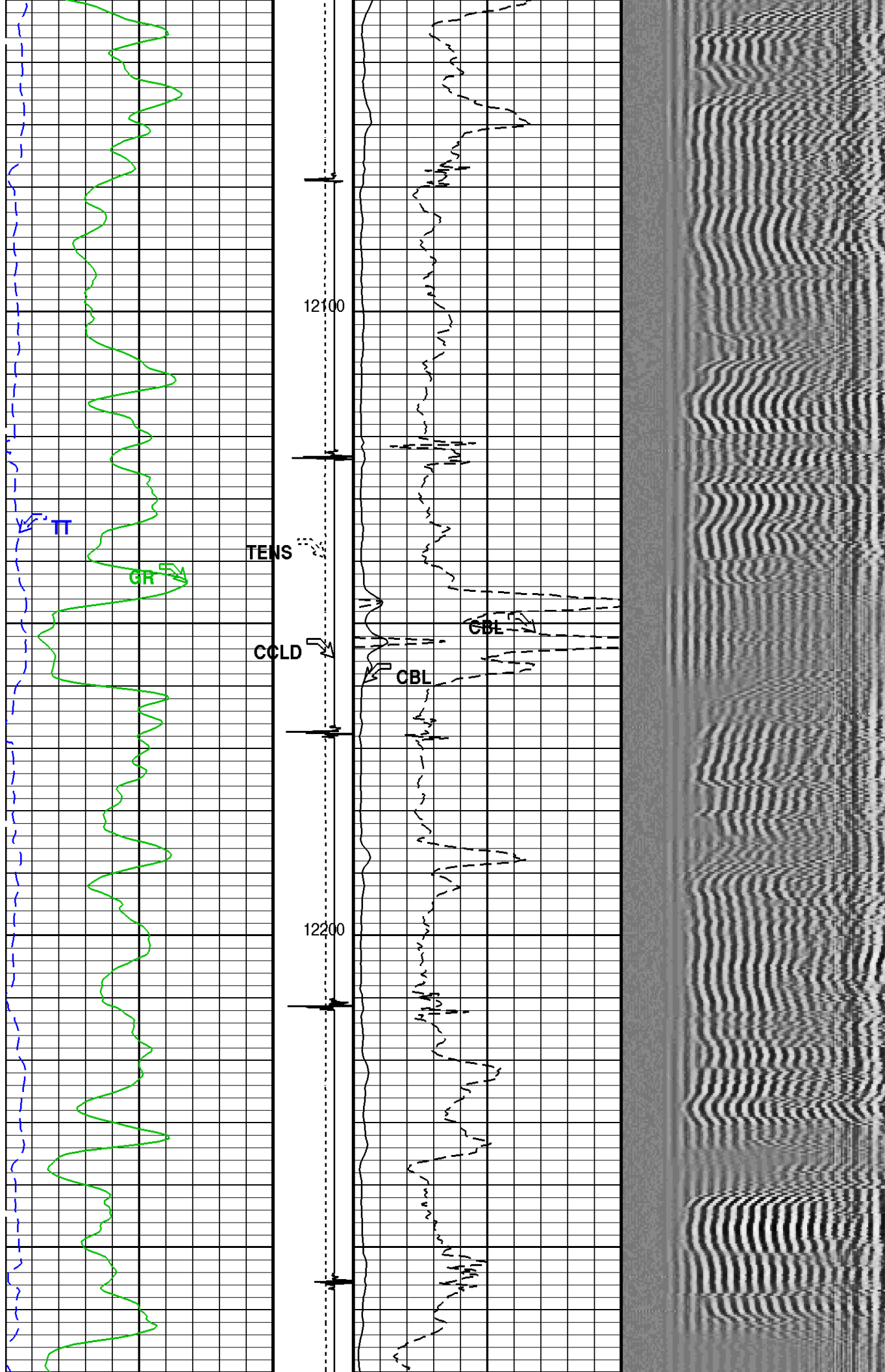


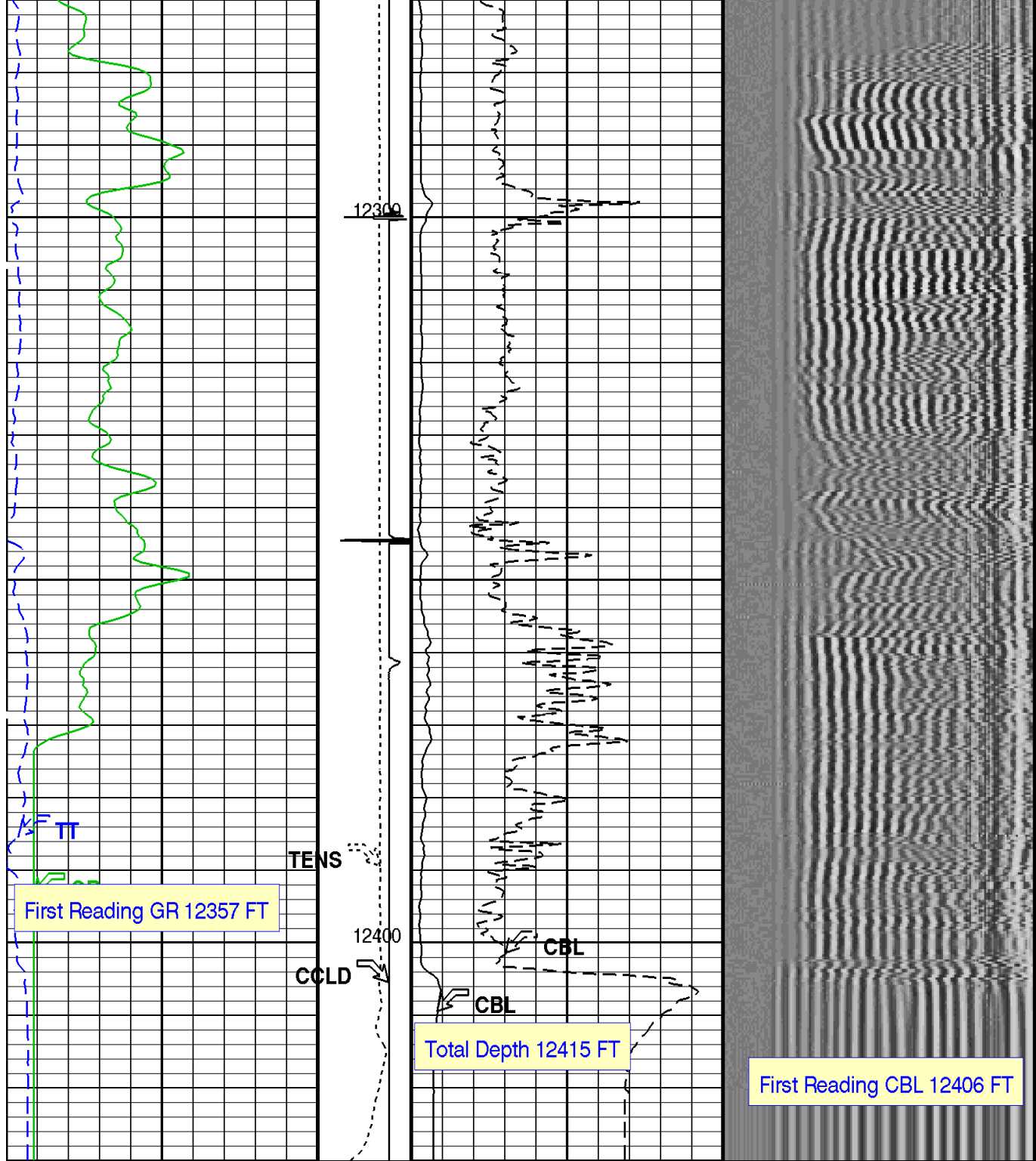












Gamma Ray (GR) (GAPI)	Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)	Min Amplitude Max VDL VariableDensity (VDL) (US)
Transit Time (TT) (US)	Discriminat ed CCL (CCLD) (V)	CBL Amplitude (CBL) (MV)	

PIP SUMMARY

☒ Time Mark Every 60 S
 Format: CBL_VDL Vertical Scale: 5" per 100' Graphics File Created: 12-Jun-2013 14:21

OP System Version: 19C0-187

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8303		
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	7-SEP-2012		
CBL Correction Factor	0.0756720	CBL Adjustment Factor (CBAF)	0.700000
MAP 1 Correction Factor	0.136845	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.165126		
MAP 3 Correction Factor	0.125717		
MAP 4 Correction Factor	0.196395		
MAP 5 Correction Factor	0.147692		
MAP 6 Correction Factor	0.128887		
MAP 7 Correction Factor	0.150775		
MAP 8 Correction Factor	0.144577		

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	
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			
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	7.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	12415	FT

Input DLIS Files

DEFAULT	SCMT_RST_PSP_011LUP	FN:10	PRODUCER	12-Jun-2013 11:00	12423.0 FT	3.5 FT
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Output DLIS Files

DEFAULT	SCMT_RST_PSP_011LUP	FN:13	PRODUCER	12-Jun-2013 14:21		
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Schlumberger

REPEAT ANALYSIS CBL VDL

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8512D-36 (D36 496)

Input DLIS Files

DEFAULT	SCMT_RST_PSP_002LUP	FN:1	PRODUCER	12-Jun-2013 08:44	8169.5 FT	7840.2 FT
DEFAULT	SCMT_RST_PSP_014PUP	FN:13	PRODUCER	12-Jun-2013 14:21	12430.0 FT	-52.0 FT

Output DLIS Files

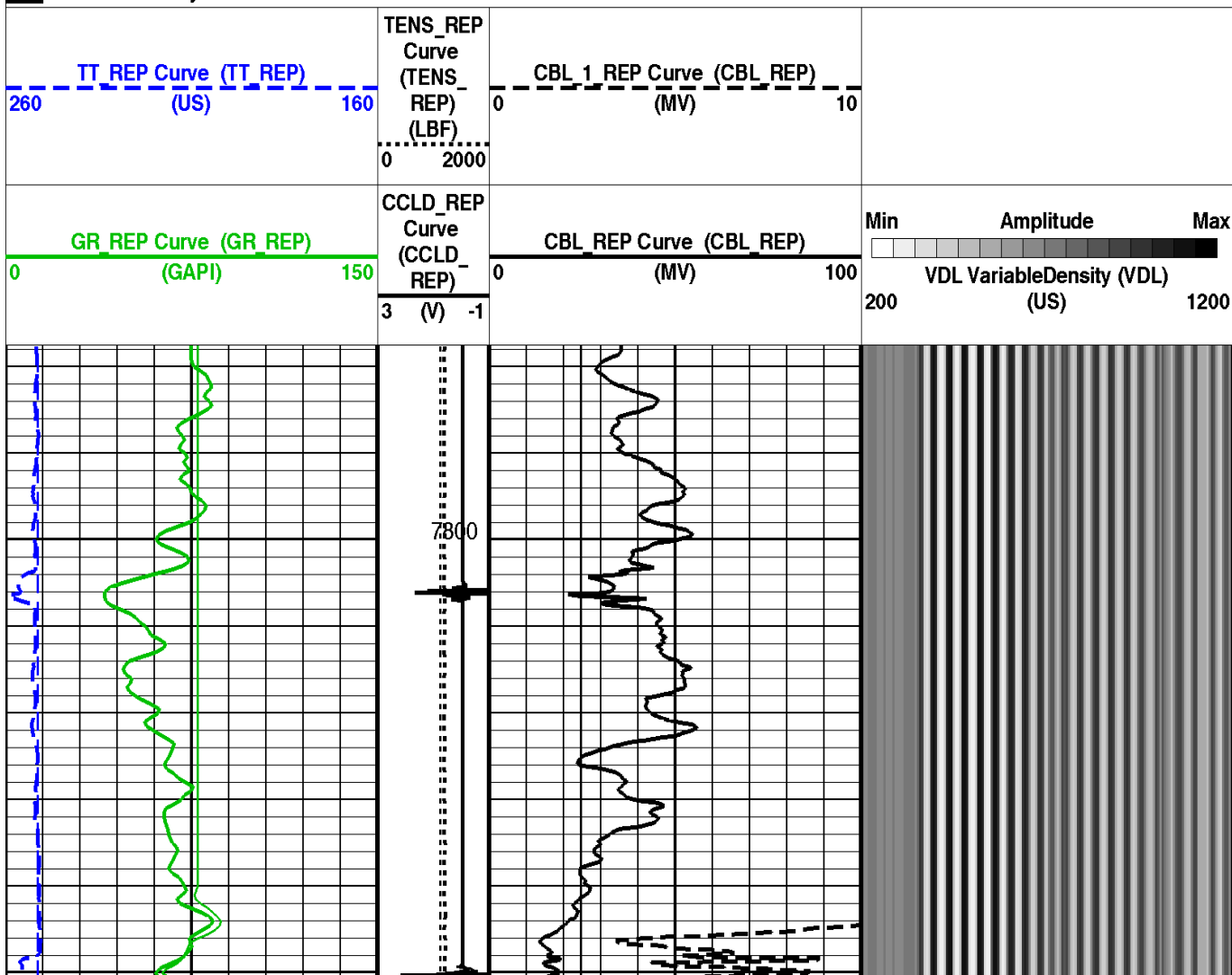
DEFAULT	SCMT_RST_PSP_015PUP	FN:14	PRODUCER	12-Jun-2013 14:28	8168.5 FT	7777.0 FT
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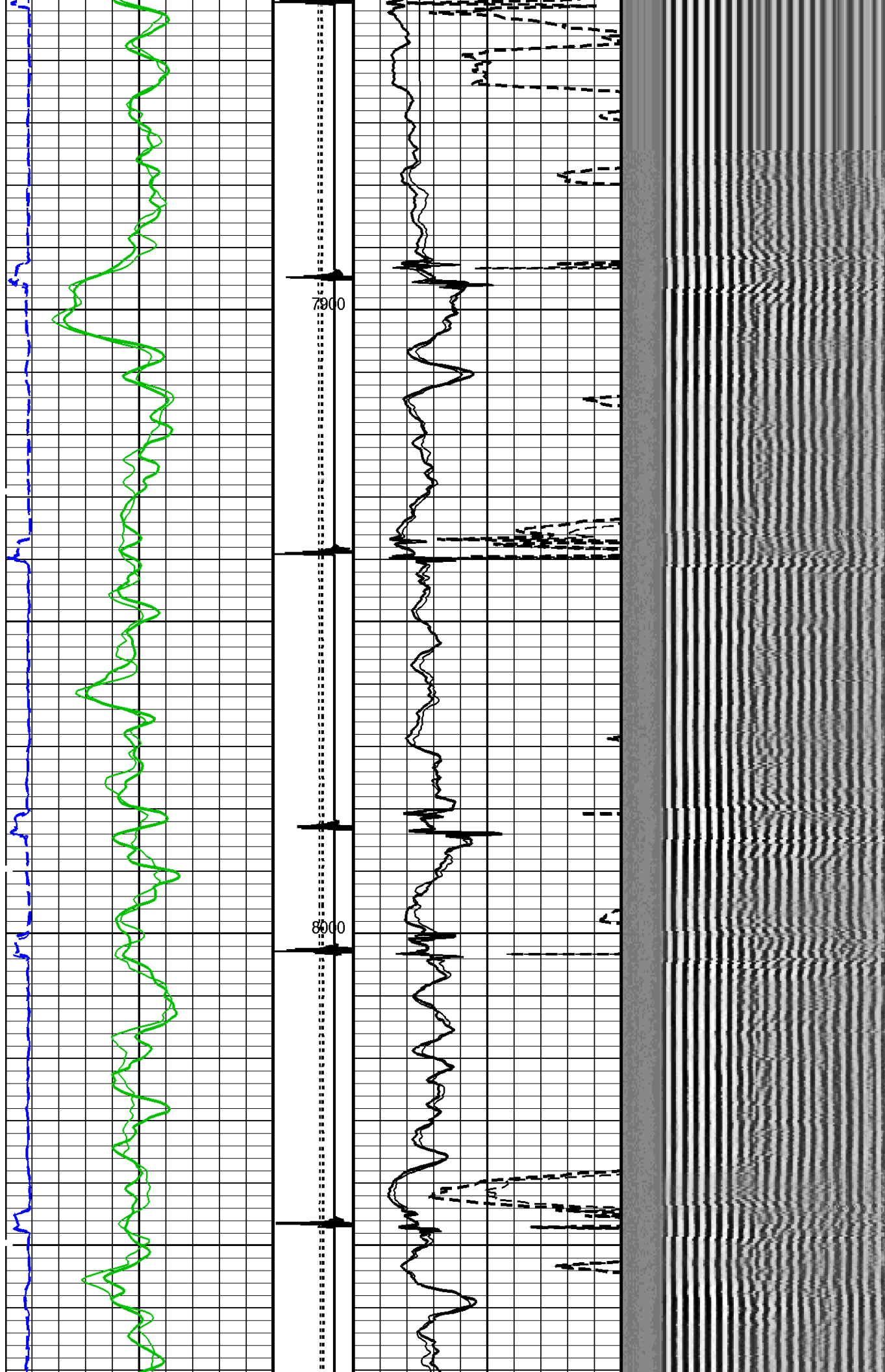
OP System Version: 19C0-187

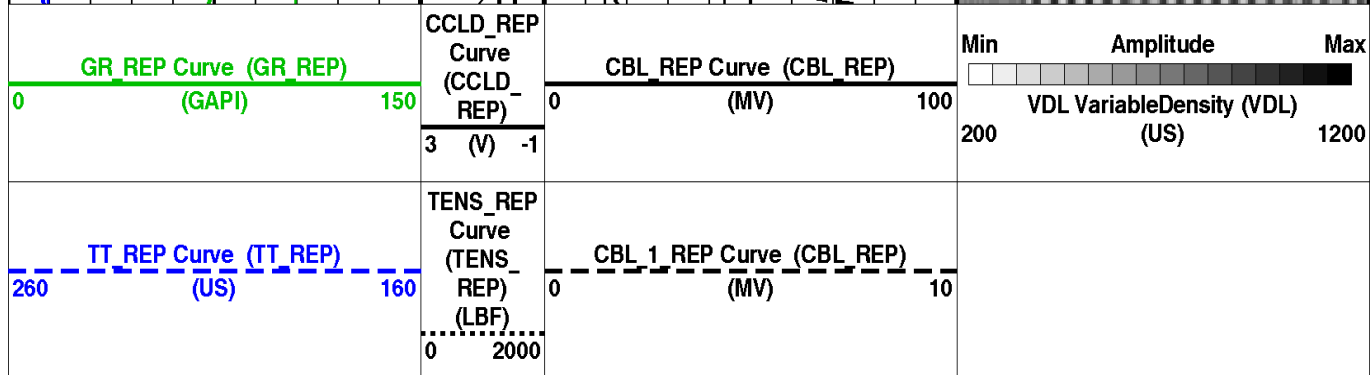
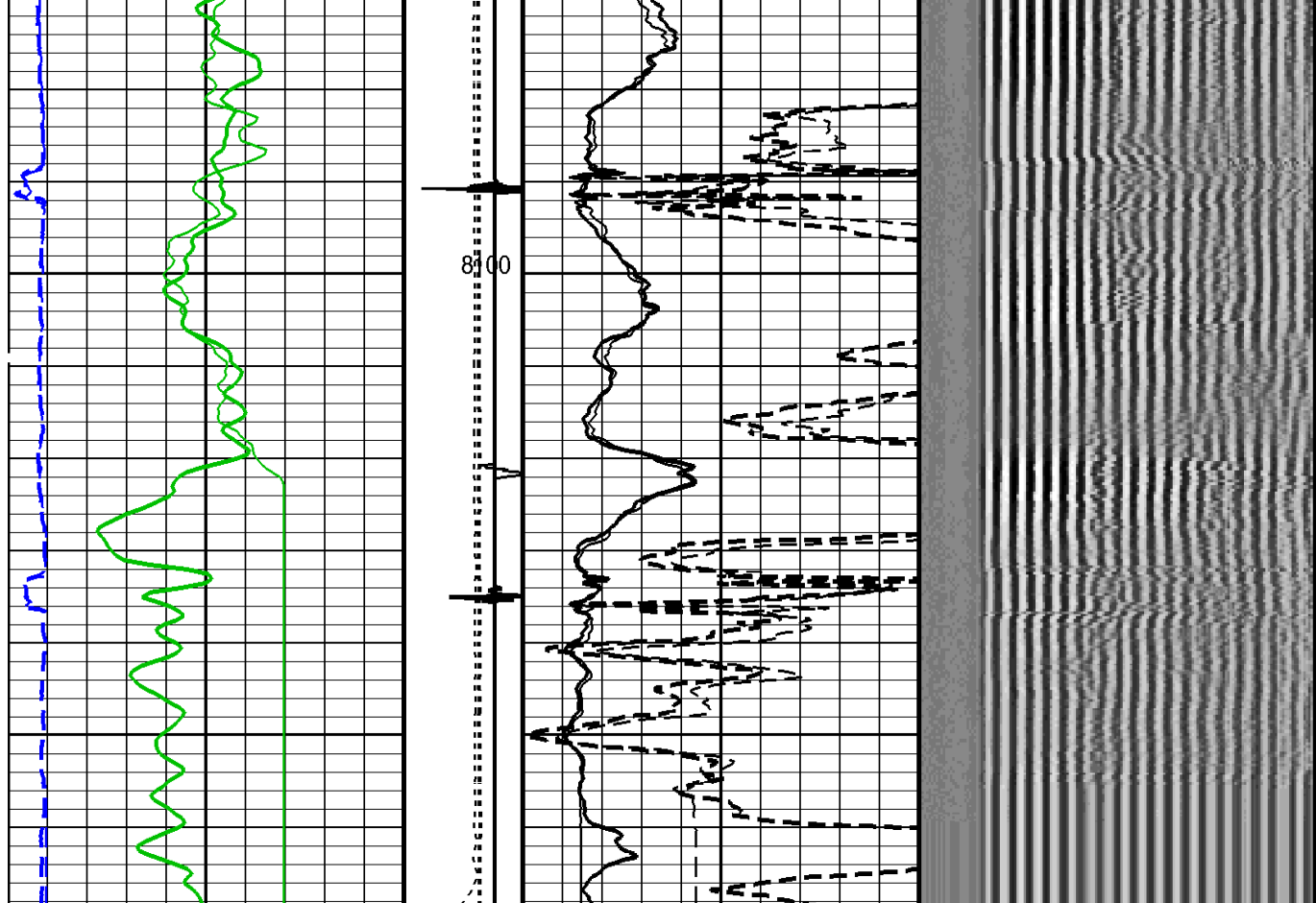
SCMT-CB	SRPC-5214-H2-2012-OP19	RST-CF	SRPC-5214-H2-2012-OP19
PSPT	SRPC-5214-H2-2012-OP19		

PIP SUMMARY

☒ Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL_REP Vertical Scale: 5" per 100' Graphics File Created: 12-Jun-2013 14:28

OP System Version: 19C0-187

SCMT-CB SRPC-5214-H2-2012-OP19 RST-CF SRPC-5214-H2-2012-OP19
 PSPT SRPC-5214-H2-2012-OP19

<<<SCMT Cement Evaluation Information Summary>>>			
Sonde Serial Number	SCMS-CB 8303		
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	7-SEP-2012		
CBL Correction Factor	0.0756720	CBL Adjustment Factor (CBAF)	0.700000

CBL Correction Factor	0.0730720	CBL Adjustment Factor (CBAD)	0.700000
MAP 1 Correction Factor	0.136845	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.165126		
MAP 3 Correction Factor	0.125717		
MAP 4 Correction Factor	0.196395		
MAP 5 Correction Factor	0.147692		
MAP 6 Correction Factor	0.128887		
MAP 7 Correction Factor	0.150775		
MAP 8 Correction Factor	0.144577		

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	
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			
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	12415	FT

Input DLIS Files

DEFAULT	SCMT_RST_PSP_002LUP	FN:1	PRODUCER	12-Jun-2013 08:44	8169.5 FT	7840.2 FT
DEFAULT	SCMT_RST_PSP_014PUP	FN:13	PRODUCER	12-Jun-2013 14:21	12430.0 FT	-52.0 FT

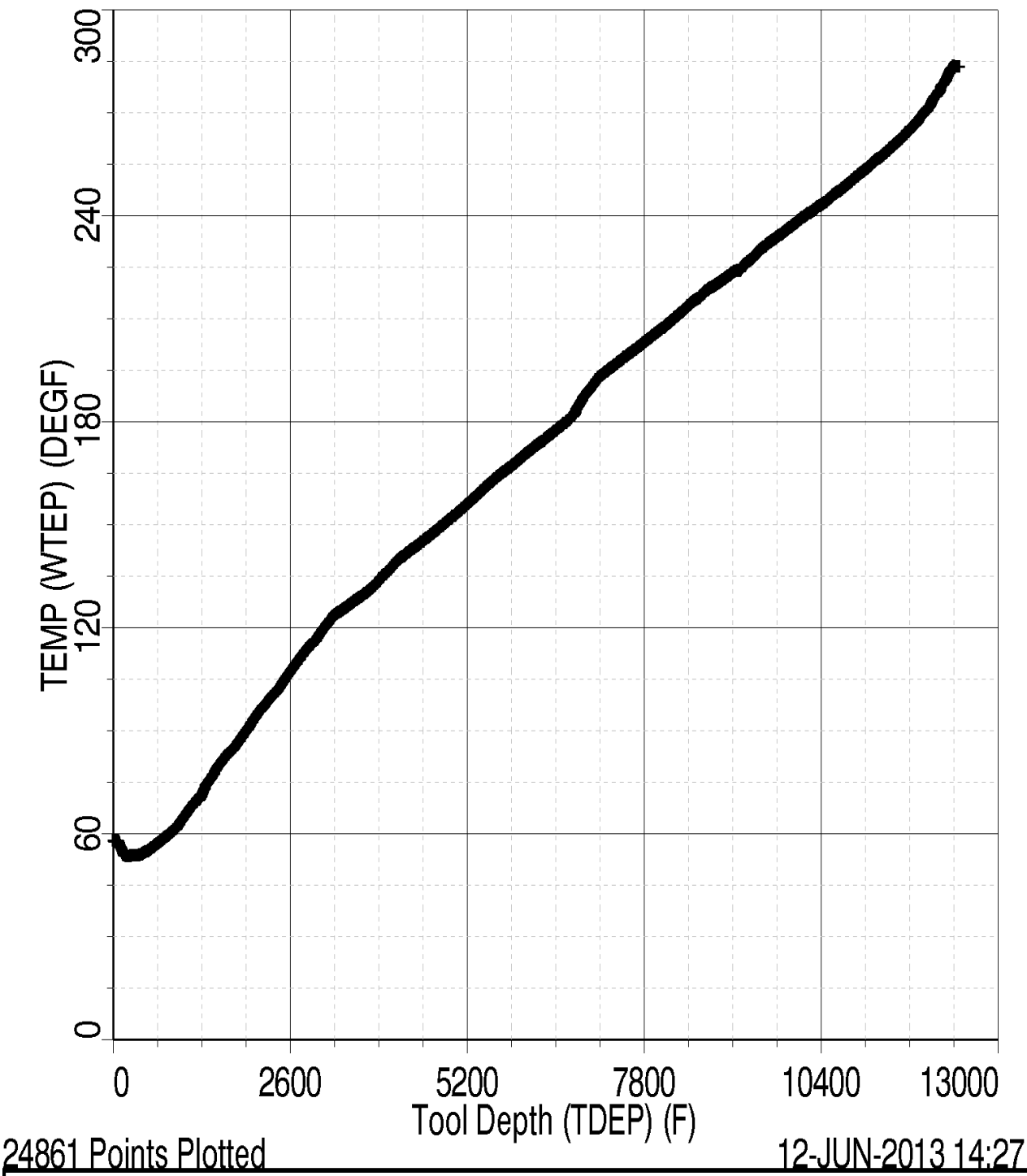
Output DLIS Files

DEFAULT	SCMT_RST_PSP_015PUP	FN:14	PRODUCER	12-Jun-2013 14:28
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TEMPERATURE PLOT

Index: 12430.0 - -52.0 FT



Schlumberger

PBMS COEFFICIENTS

MAXIS Field Log

Client: ENCANA OIL & GAS (USA) INC
Field: STORY GULCH
Well: SG 8512D-36 (D36 496)

Tool: PSP
Sub Type: PBMS
Sensor: GR

Well: SG 8512D-36 (D36 496)

Run date: 12-Jun-2013

Sensor:

GR

PBMS Gamma Ray

Sonde Serial NB RESISTORS FOR GR SENSOR N.33223, TOOL PBMS-BA0928. SENSOR S/N:

Sensor Serial NB 33223

Calib Date ddmmyy 090800

Matrix Size 12

Coeff CRC CFE2

GR HV Rt

Rt**0

Rt**1

Rt**0

+1.182000000000e+04

+1.332000000000e+04

Client: ENCANA OIL & GAS (USA) INC

Field: STORY GULCH

Well: SG 8512D-36 (D36 496)

Run date: 12-Jun-2013

Tool:

PSP

Sub Type:

PBMS

Sensor:

WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB COEFFICIENTS FOR RTD THERMOMETER PBMS-B.928 S/N:

Sensor Serial NB 928

Calib Date ddmmyy 280612

Matrix Size 16

Coeff CRC A24E

WTemp Coeff

Tt**0

Tt**1

Tt**2

Tt**0

-1.391987973189E+03

+1.191346892512E+03

-1.440920753451E+02

Tt**3

Tt**4

Tt**5

Tt**0

+1.957191300908E+01

-1.711421725686E+00

0.0

Client: ENCANA OIL & GAS (USA) INC
Field: STORY GULCH
Well: SG 8512D-36 (D36 496)
Run date: 12-Jun-2013

Tool: PSP
Sub Type: PBMS
Sensor: CQG

PBMS Quartz Gauge type F

Sonde Serial NB COEFFICIENTS FOR CQG PBMS-B.928 S/N:
Sensor Serial NB 928
Calib Date ddmmyy 280612
Matrix Size 66
Coeff CRC 9DC3

Pres Coeff

	Fb**0	Fb**1	Fb**2
Fc**0	+.714463802232E+04	+.183434658655E-01	-.156620073569E-06
Fc**1	-.100638308957E+01	-.119899563644E-04	-.912155899025E-10
Fc**2	+.936268101283E-06	+.423898071451E-10	+.958076371919E-15
Fc**3	+.185123362373E-11	+.203107925433E-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	-.746577997611E-10	-.588773826860E-15	-.622250441458E-19
Fc**1	-.120636521092E-15	+.400325894750E-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 928
Calib Date ddmmyy 280612
Matrix Size 66
Coeff CRC 283B

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+1.117016867873E+03	-.284359629614E-03	+.604391180345E-08
Fb**1	-.598309140812E-02	+.182731130848E-07	+.160166486172E-12
Fb**2	-.307621454576E-07	+.300601550309E-12	+.311233548560E-17
Fb**3	-.419658736767E-12	+.117473708647E-16	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	+1.114322792679E-12	+.153807711176E-17	-.736714260866E-21
Fb**1	-.528037875456E-18	-.220337637519E-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 928
 Calib Date ddmmyy 280612
 Matrix Size 16
 Coeff CRC 093F

Clock Freq Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+1.310874009898E+05	+.288920923041E-02	+.697940727038E-06
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	-.657432344763E-10	-.412920638782E-15	+.213369826099E-20

PBMS Quartz Gauge type F

Sonde Serial NB :
 Sensor Serial NB 928
 Calib Date ddmmyy 280612
 Matrix Size 16
 Coeff CRC 8419

Clock Temp Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+1.115369519827E+03	-.565338877075E-02	-.333717531829E-07
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5

(Fb'-Fc')**0

-124387135327E-12

+.713102327208E-16

-.316084316842E-20



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

8303

Slim Cement Mapping Cartridge

SCMC - CA

8120










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		876.9	Master		726.7
	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		954.5	Master		611.0
	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		812.5	Master		931.0
	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		795.9	Master		830.0
	500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)			500.0 (Minimum) 1075 (Nominal) 1650 (Maximum)	
Phase	CBL Amplitude Plus MV	Value			
Master		1269			
	1000 (Minimum) 1350 (Nominal) 1700 (Maximum)				

Master: 7-Sep-2012 16:30

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


Well: **SG 8512D-36 (D36 496)**
Field: **STORY GULCH**
County: **GARFIELD**
State: **COLORADO**

SLIM CEMENT MAPPING LOG
CBL-VDL
GR-CCL