

DEPTH SUMMARY LISTING

Date Created: 15-AUG-2012 16:29:40

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:	111306
Calibration Date:	04-24-2012	Calibration Date:	08-14-2012	Length:	16000 FT
Calibrator Serial Number:	33	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:	5		
Wheel Correction 2:	-4	Calibration Peak Error:	7		

Depth Control Parameters

Log Sequence: Subsequent Log In the Well

Reference Log Name:

Reference Log Run Number:

Reference Log Date:

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES UTILIZED
2. PRIMARY DEPTH CONTROL : IDW
3. SECONDARY DEPTH CONTROL: 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	OTHER SERVICES2
OS1: RESERVOIR SATURATION	OS1:
OS2: TOOL	OS2:
OS3: SIGMA MODE	OS3:
OS4: GR-CCL	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
SUBSEQUENT RUN IN HOLE CORRELATED TO FIRST RUN RST	
TOOL RAN AS PER TOOL SKETCH	
TOTAL DEPTH TAGGED = 11177 FT	
STRETCH CORRECTION = 5 FT	
MAXIMUM RECORDED TEMPERATURE = 292 DEGF	
MAXIMUM RECORDED PRESSURE = 4667 PSIA	

EXPECTED CBL AMPLITUDE 80MV IN FREE PIPE					
CYCLE SKIPPING DUE TO GOOD BOND					
MAIN LOG RAN WITH ZERO SURFACE PRESSURE					
THANK YOU FOR CHOOSING E&P WIRELINE A SCHLUMBERGER COMPANY					
SLB CREW: KBUNTING, WFLOYD, WAZIZ, KJOHNS, CARNOLD					
RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
CADB-00012 19C0-187 100 ft					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT					
WITM-A PSC_16MHZ					
DOWNHOLE EQUIPMENT					
MH-22 MH-22					
Detail MT TelStatus CTEM					
HBMS-B PSC-A HUDH-A HSTC-A 2880 HBMC-A GR CCL HBMC HTPS-A HCQG_E_Mano RTD_Thermometer					
GR					
CCL					
HSTC Aux. HBMC Aux.					
CQG Manom Well_Temp					
SCMT-CB SCMC-CA SECH-CA CMIR-AG SCMS-CB 8179 SCMX-CA 8120					



11.1

9.6

8.6

8.1

7.1

Tension SCMT^{HV}

0.0

TOOL ZERO

0.2

MAXIMUM STRING DIAMETER 2.07 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET



MAXIS Field Log

Well: NP EF09E-27 (P27 595)

Input DLIS Files

DEFAULT	SCMT HBMS 028LUP	FN:27	PRODUCER	15-Aug-2012 12:32	11189.5 FT	14.0 FT
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Output DLIS Files

DEFAULT	SCMT_HBMS_029PUP	FN:28	PRODUCER	15-Aug-2012 16:01	11193.5 FT	-13.5 FT
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OP System Version: 19C0-187

SCMT-CB SRPC-5095-H2-2011-OP19 HBMS-B 19C0-187

PIP SUMMARY

Time Mark Every 60 S

Well Temperature (WTEP)
(DEGF)

Discriminat ed CCL (CCLD)	3 (V) -1
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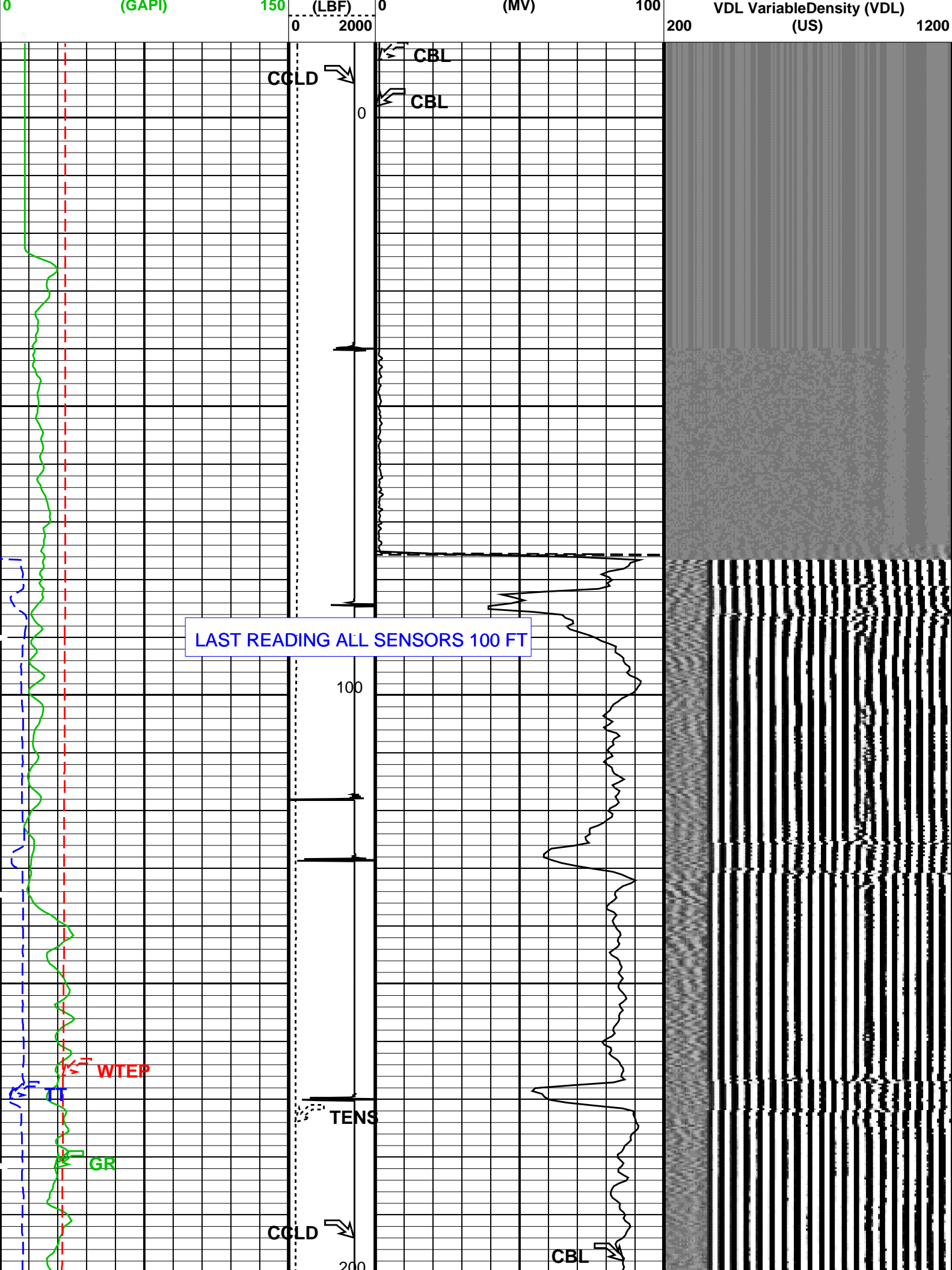
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(MV)

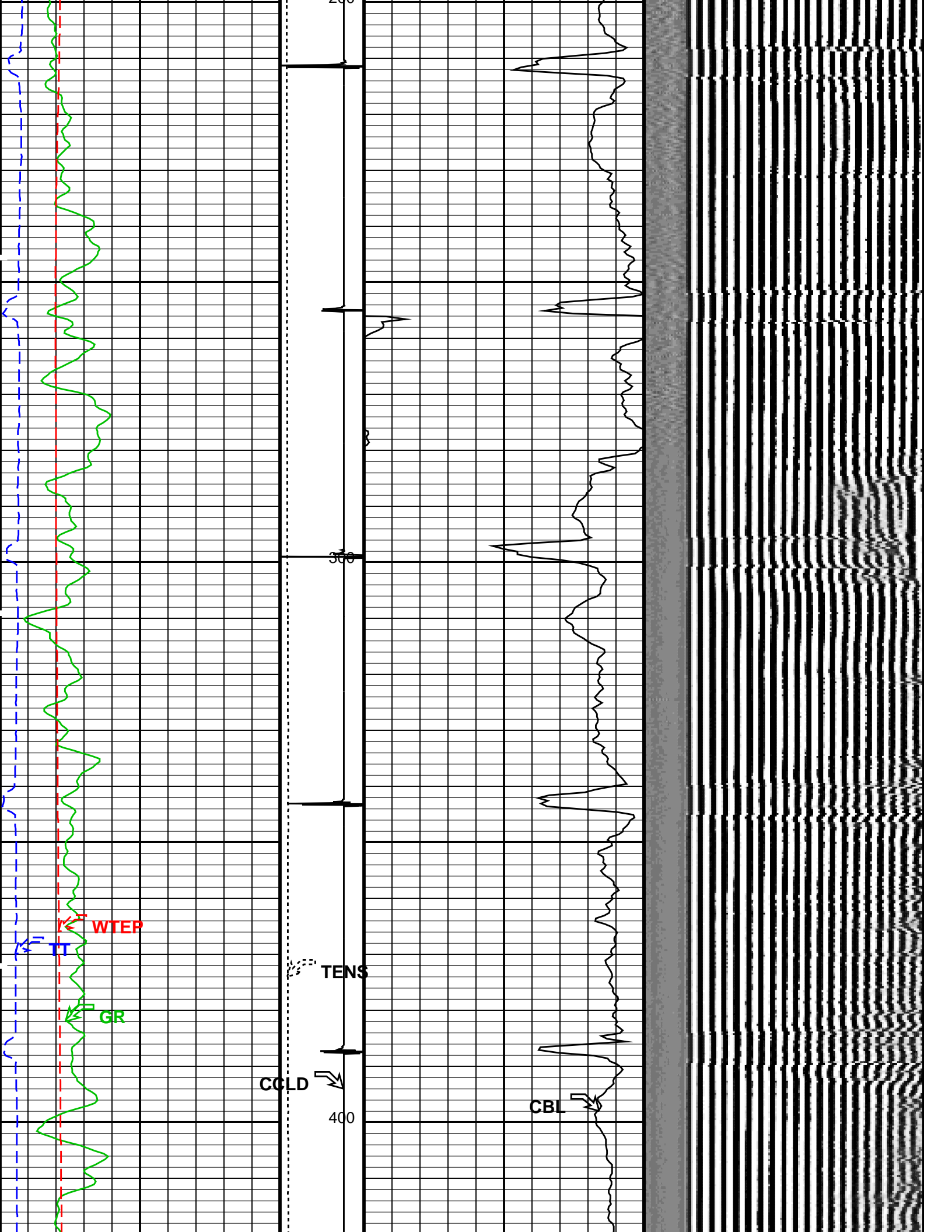
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(US)

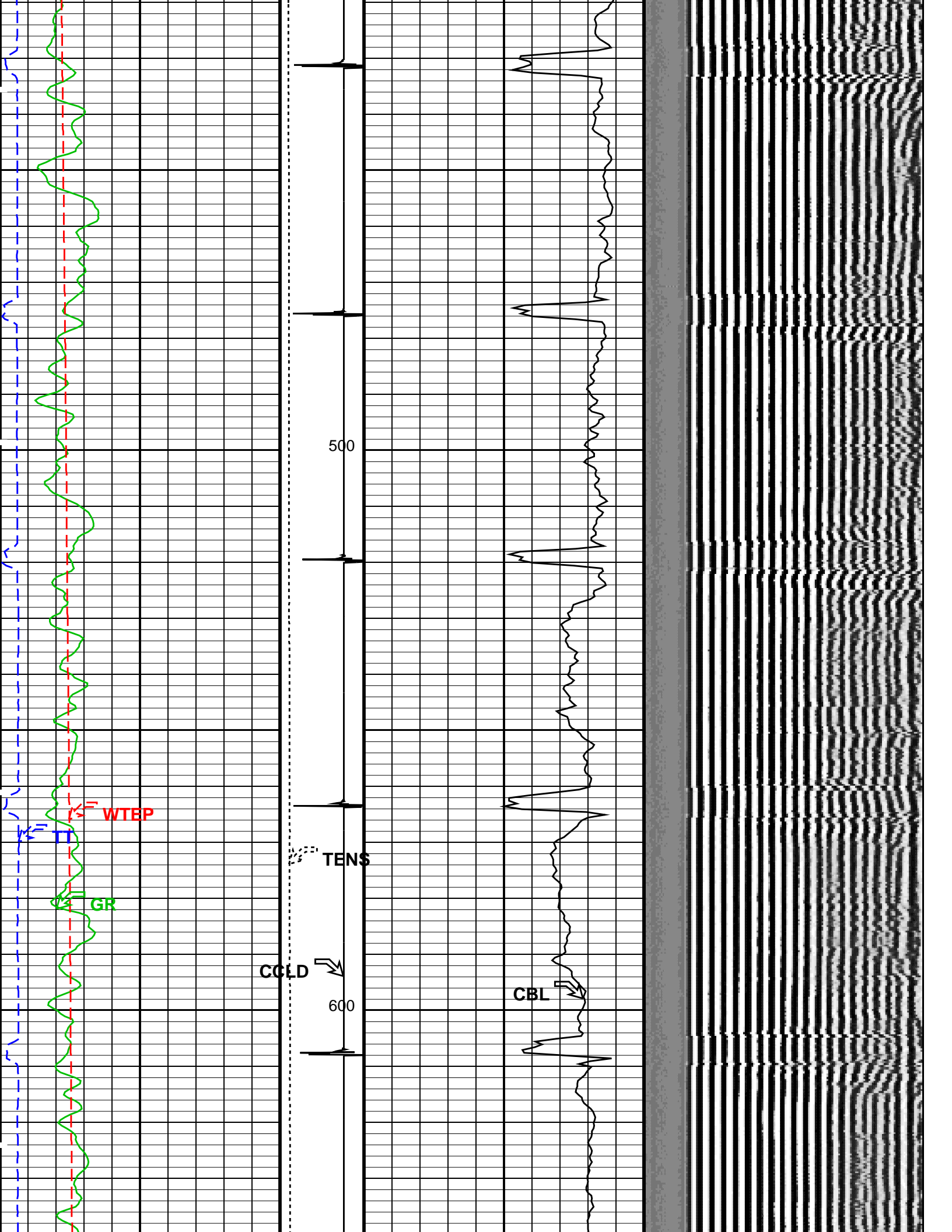
**Tension
(TENS)**

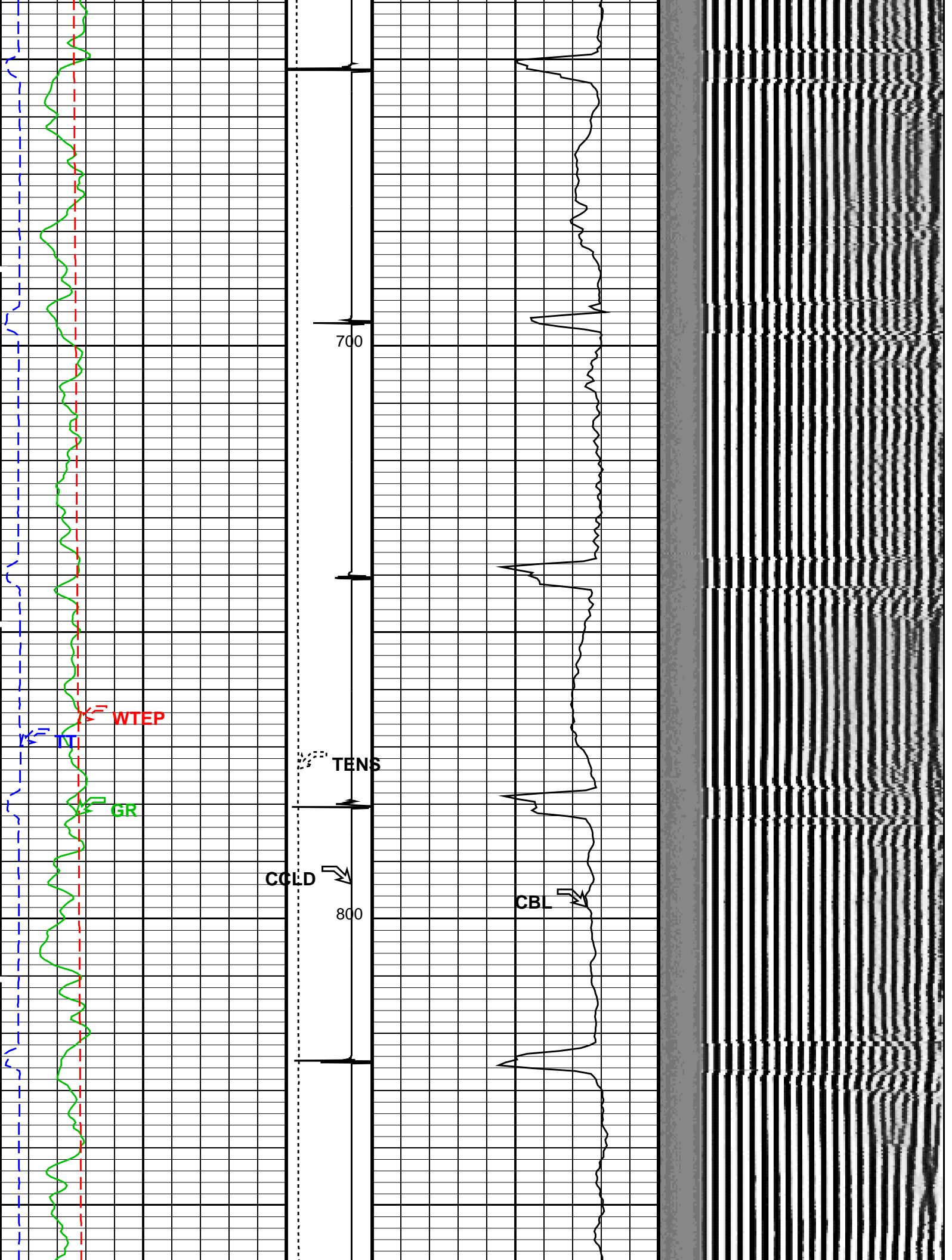
CBL Amplitude (CBL)

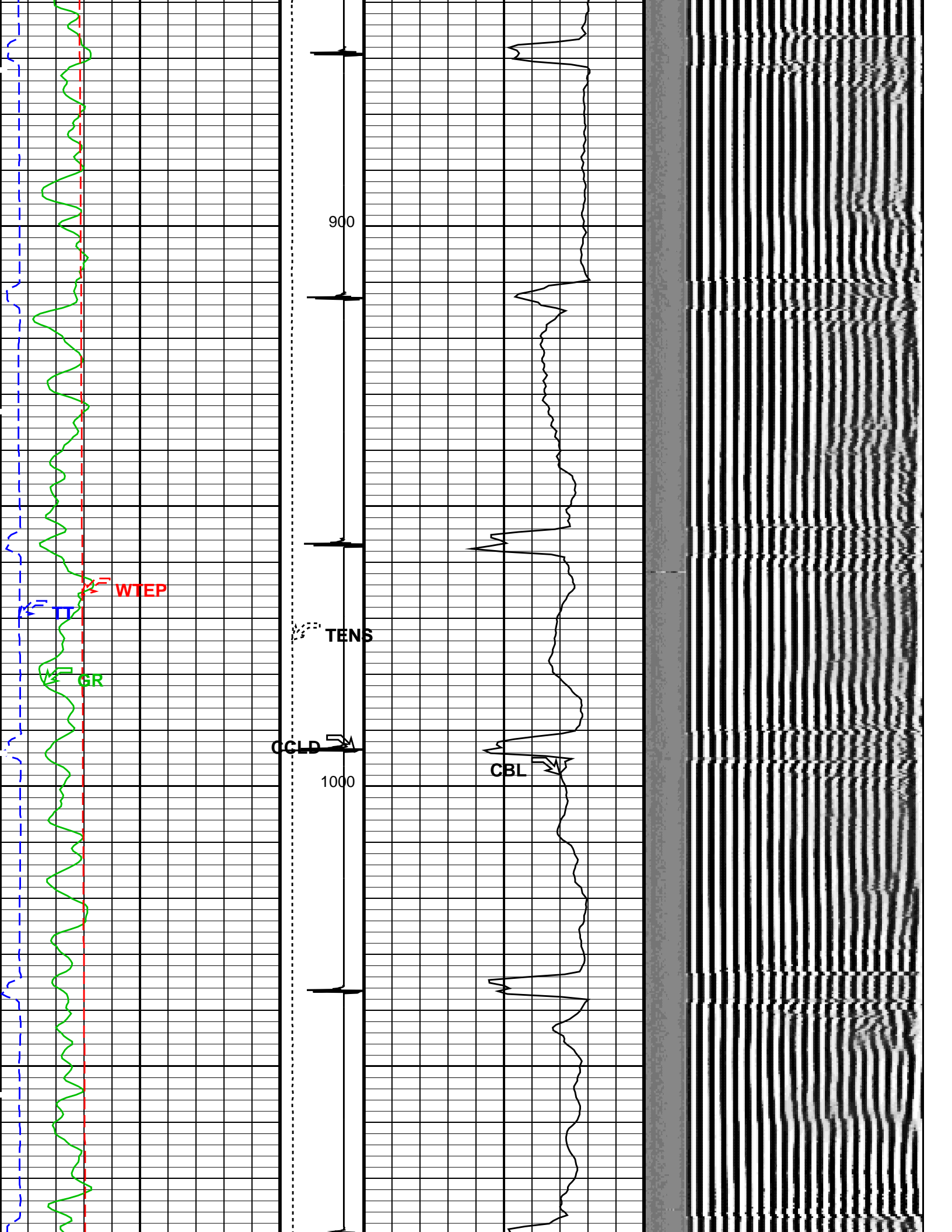
Min Amplitude Max

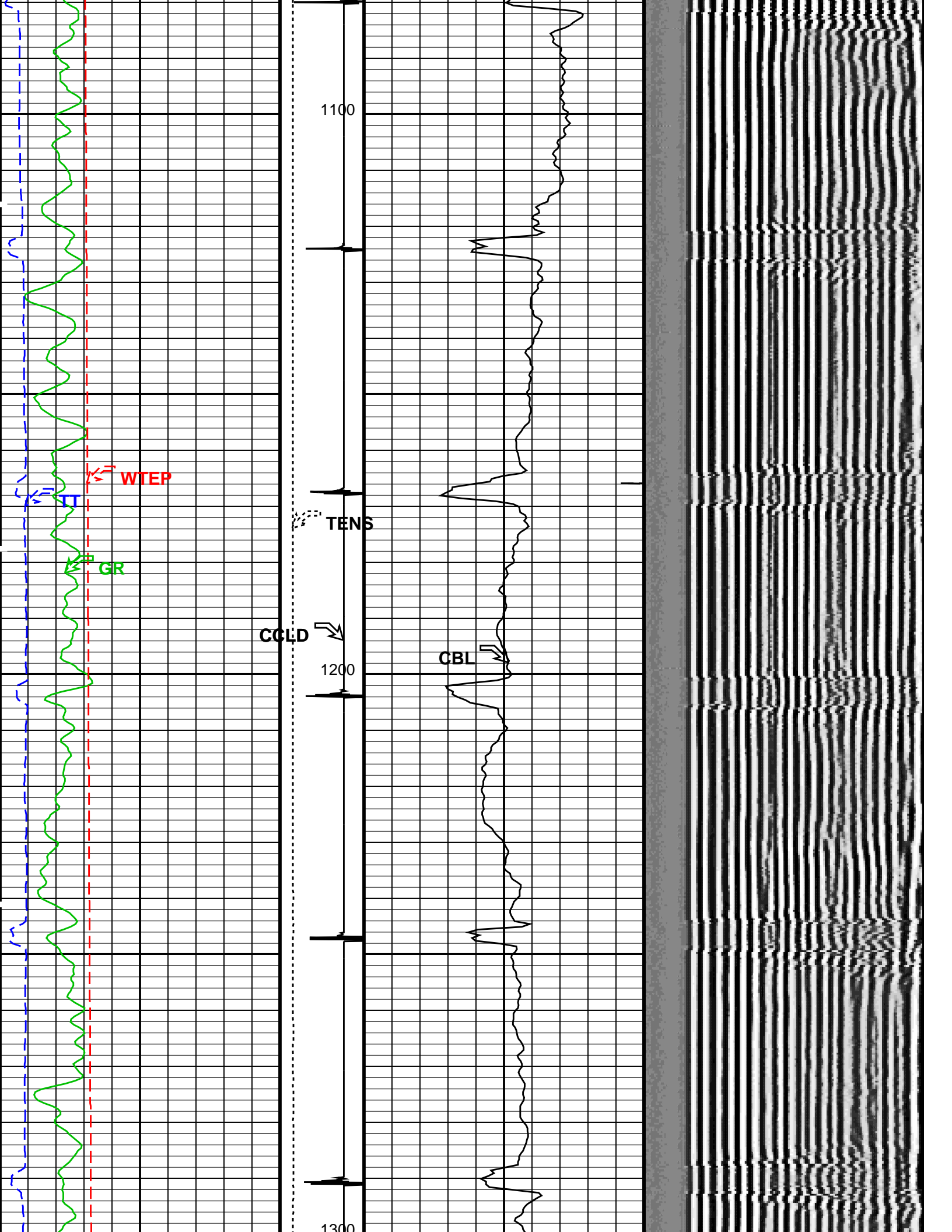


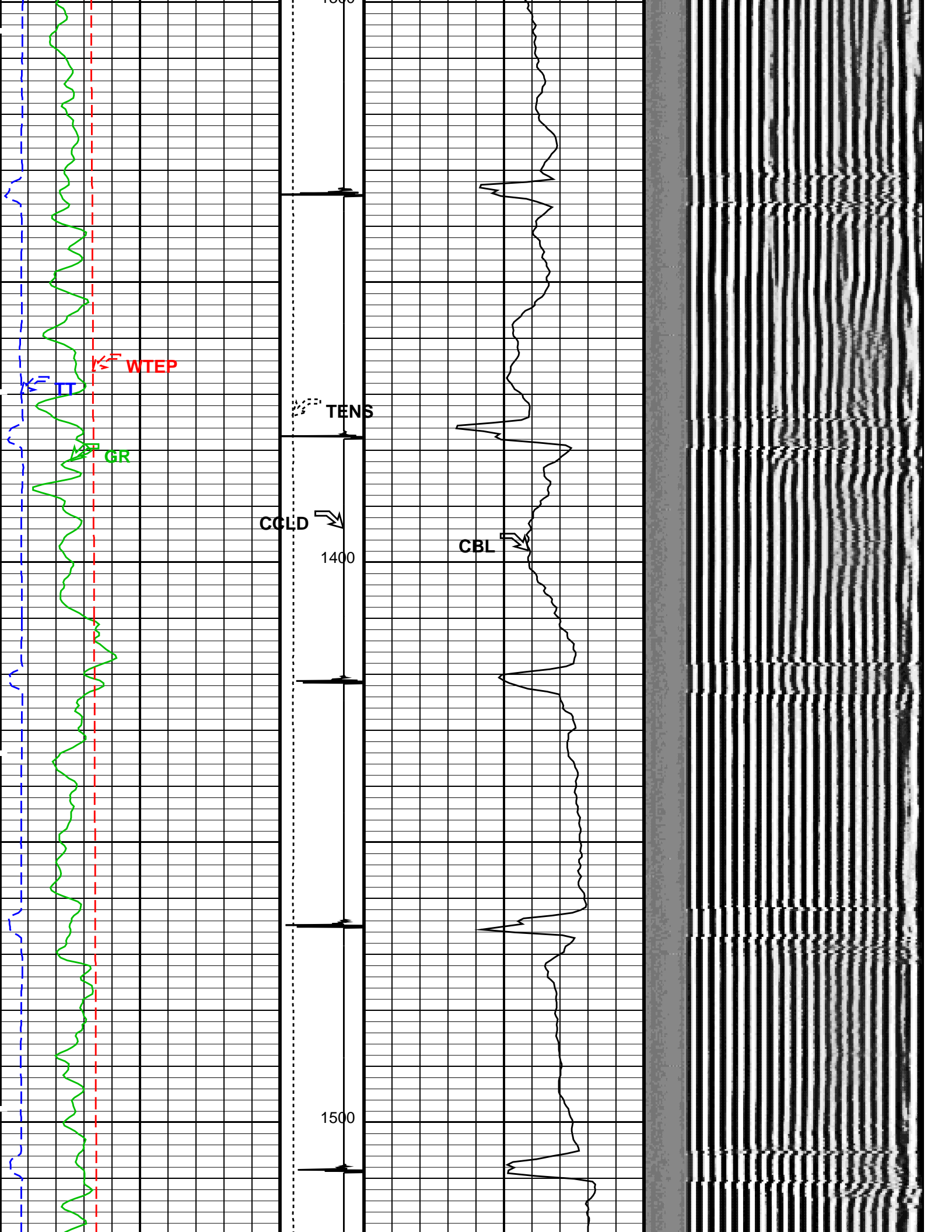


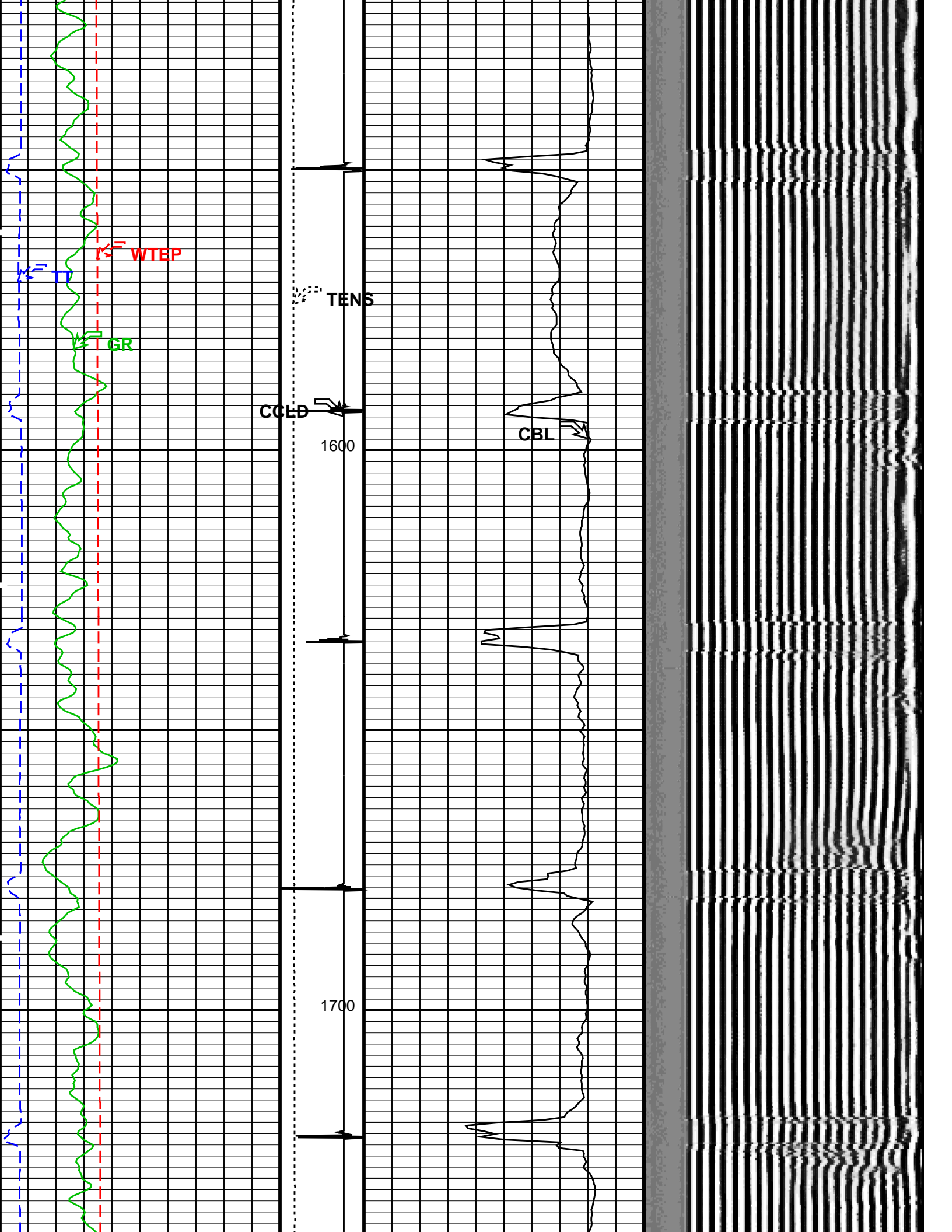


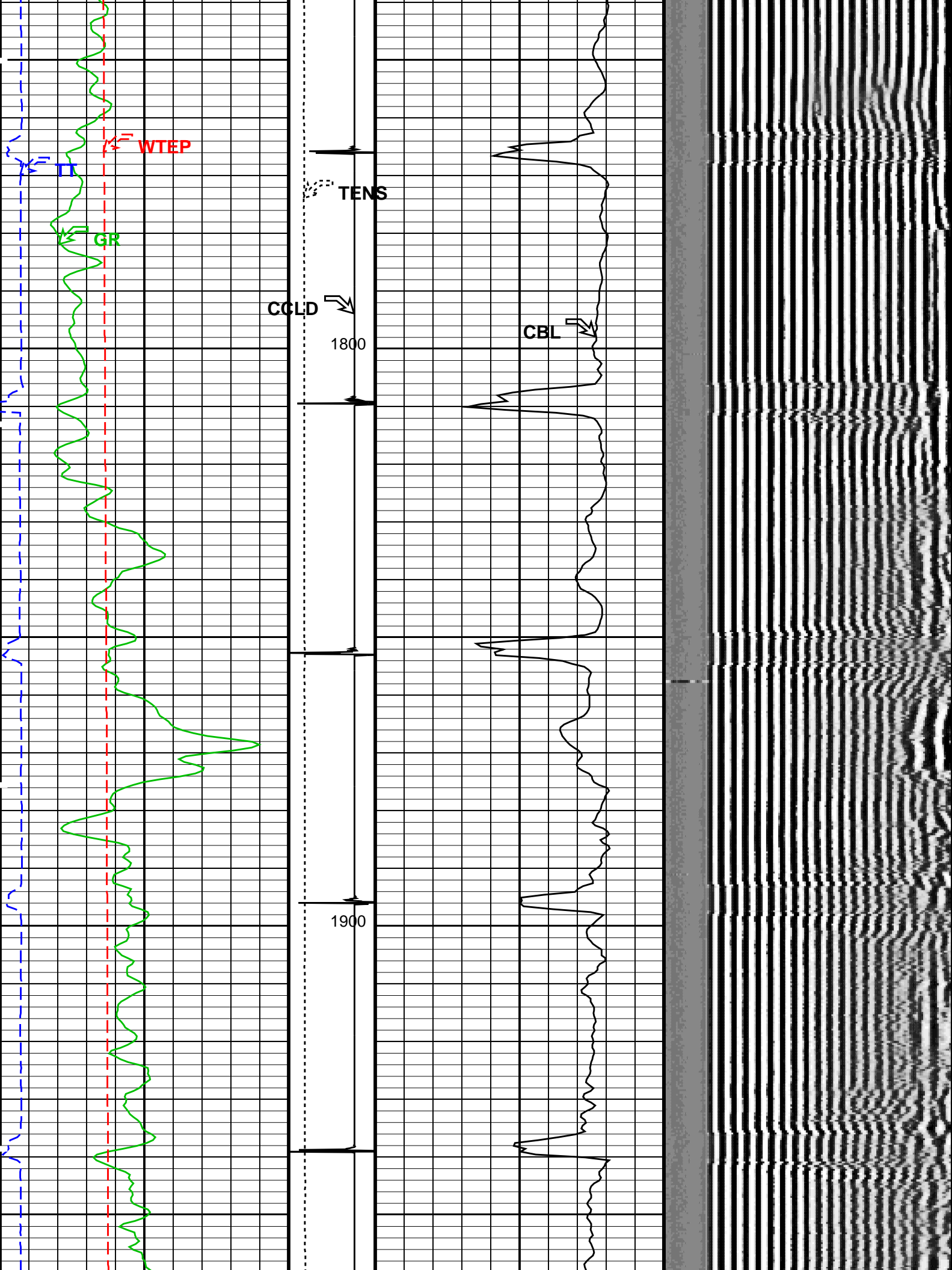


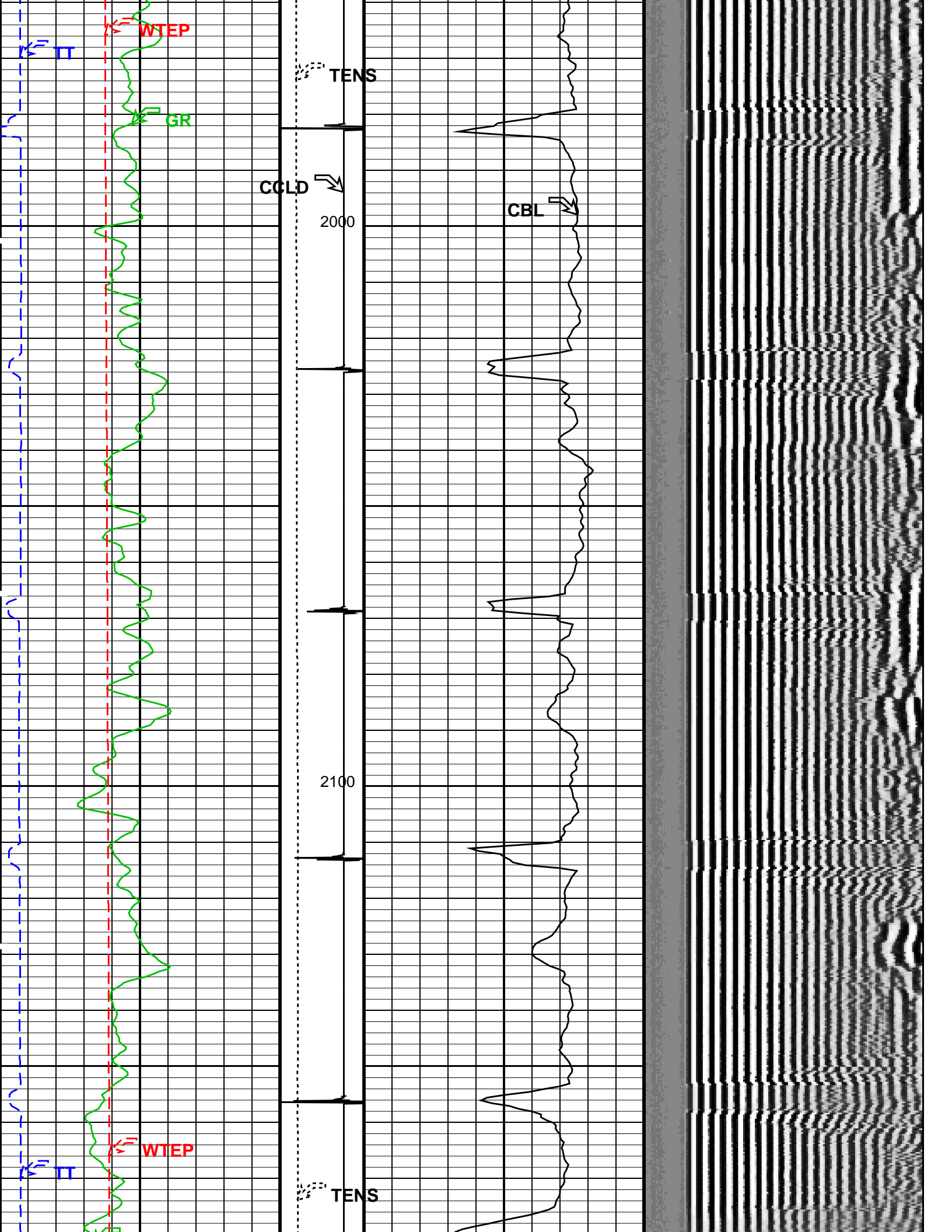


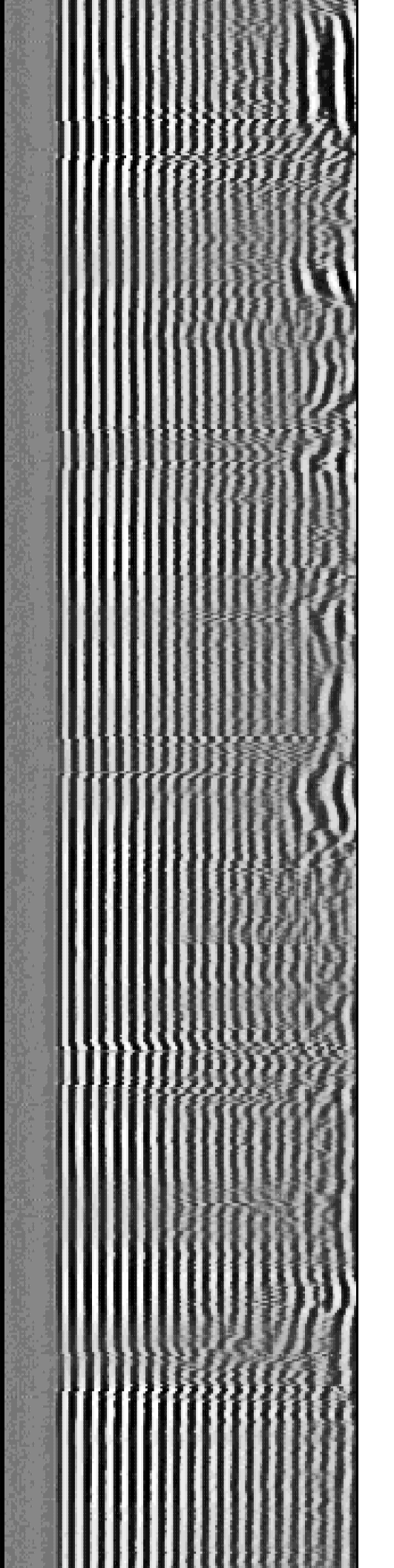
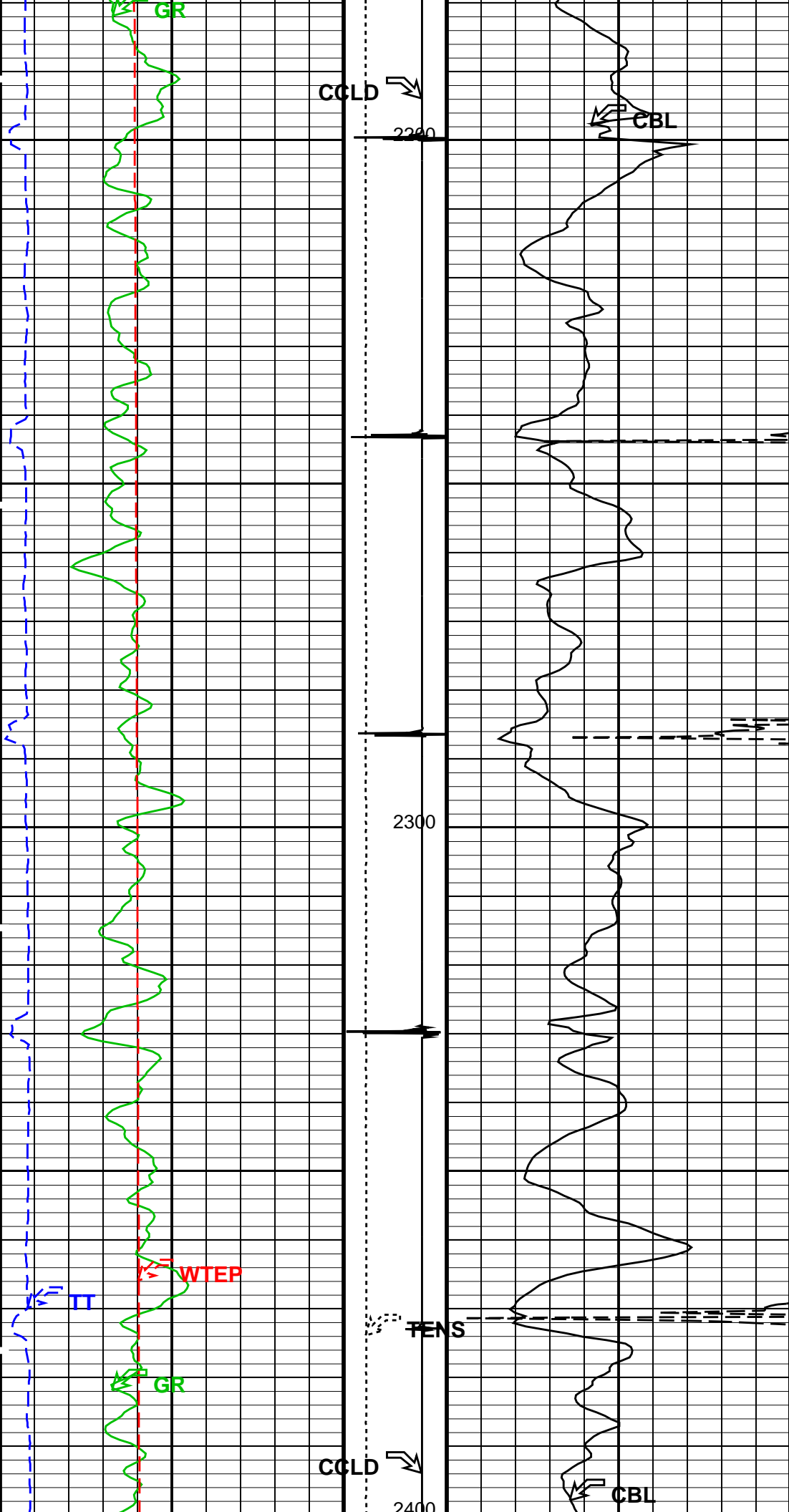


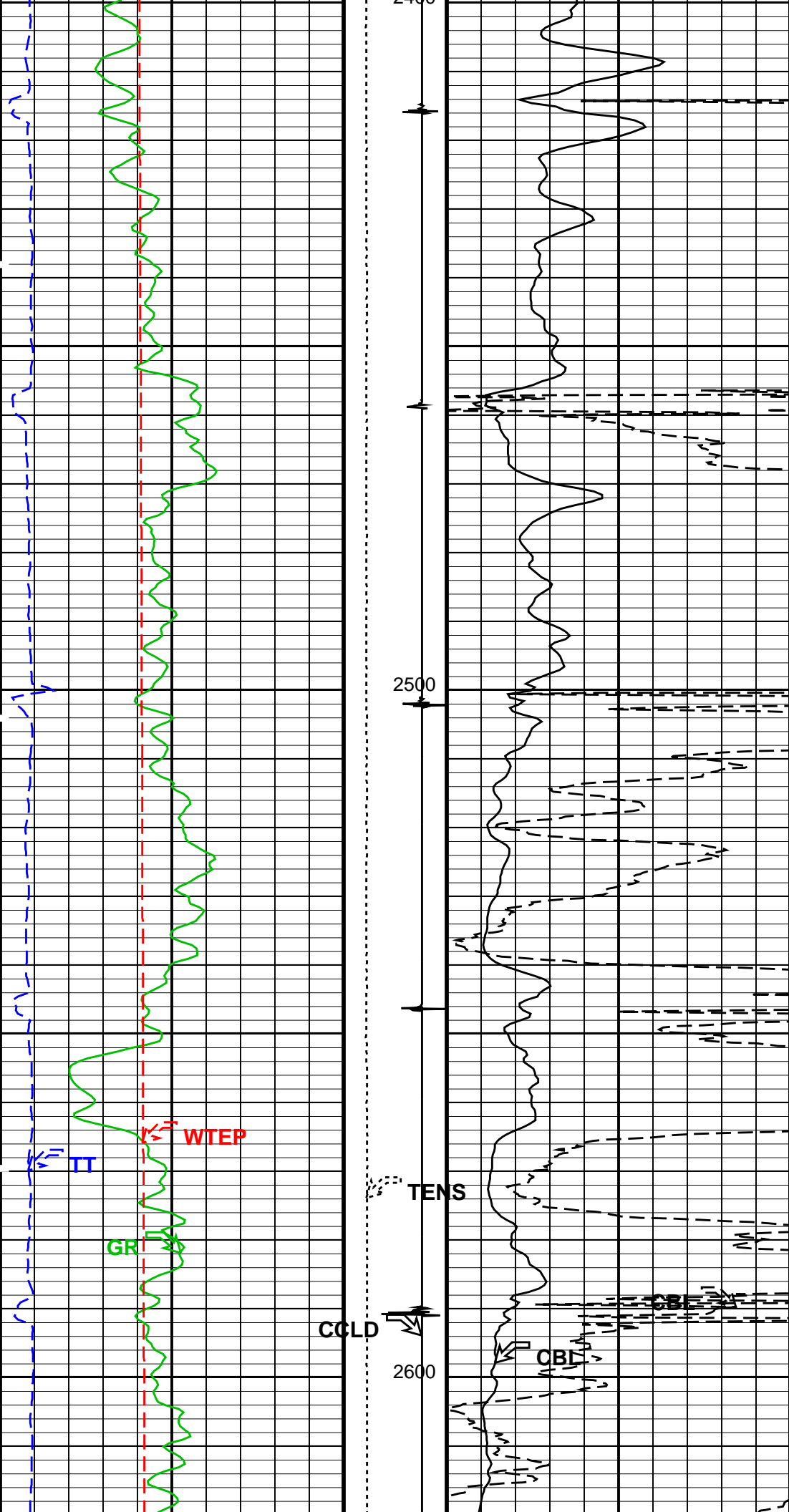


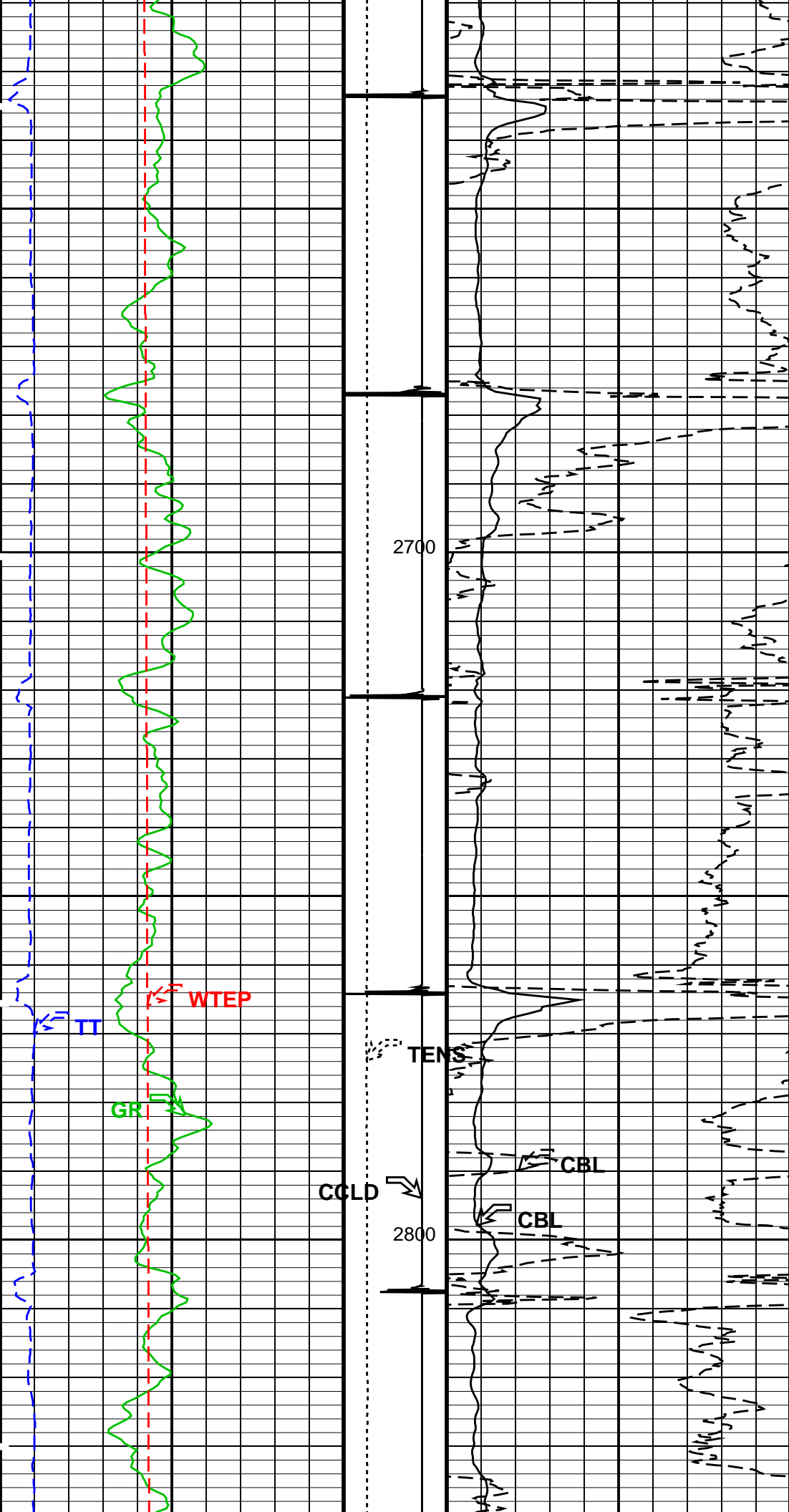


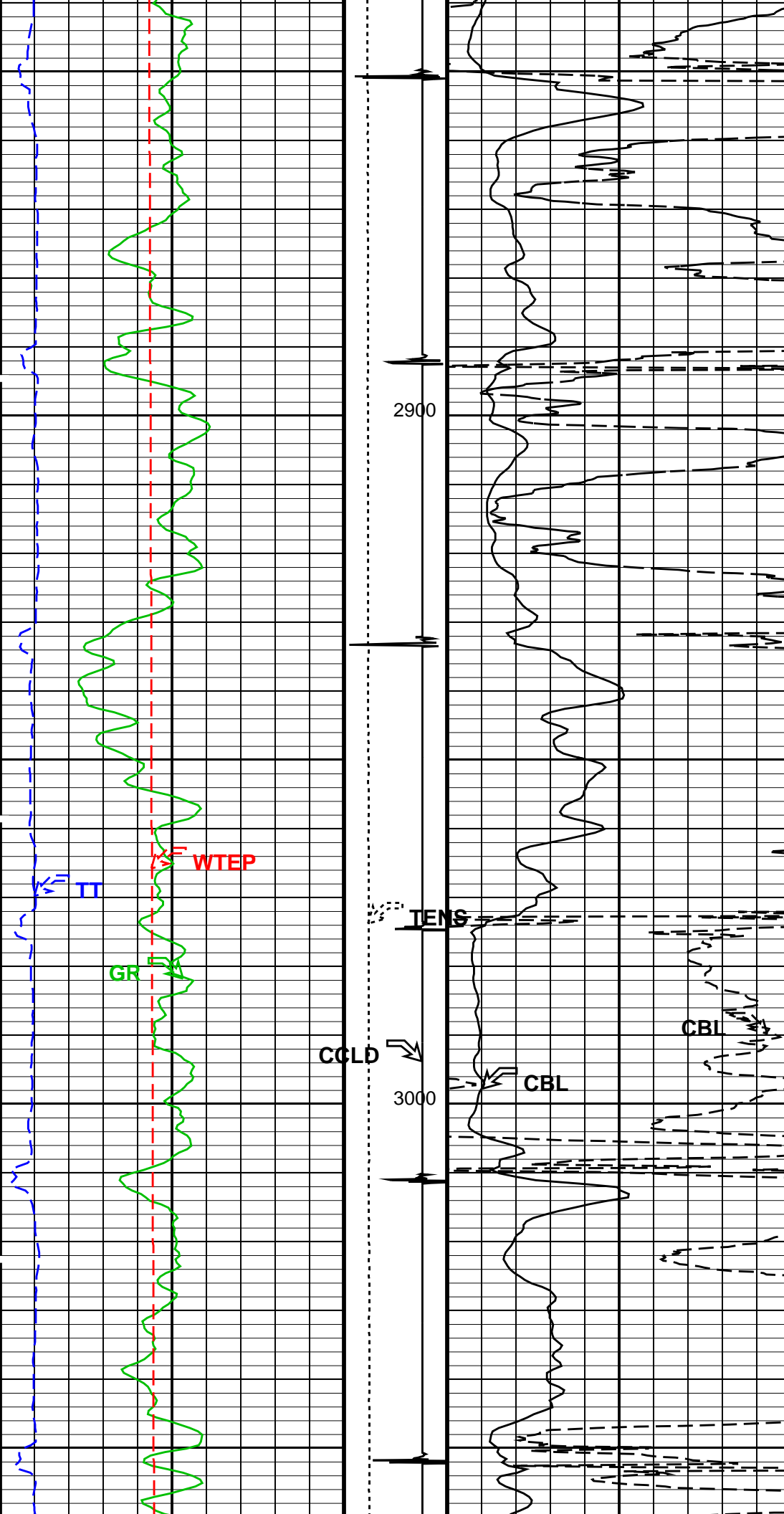


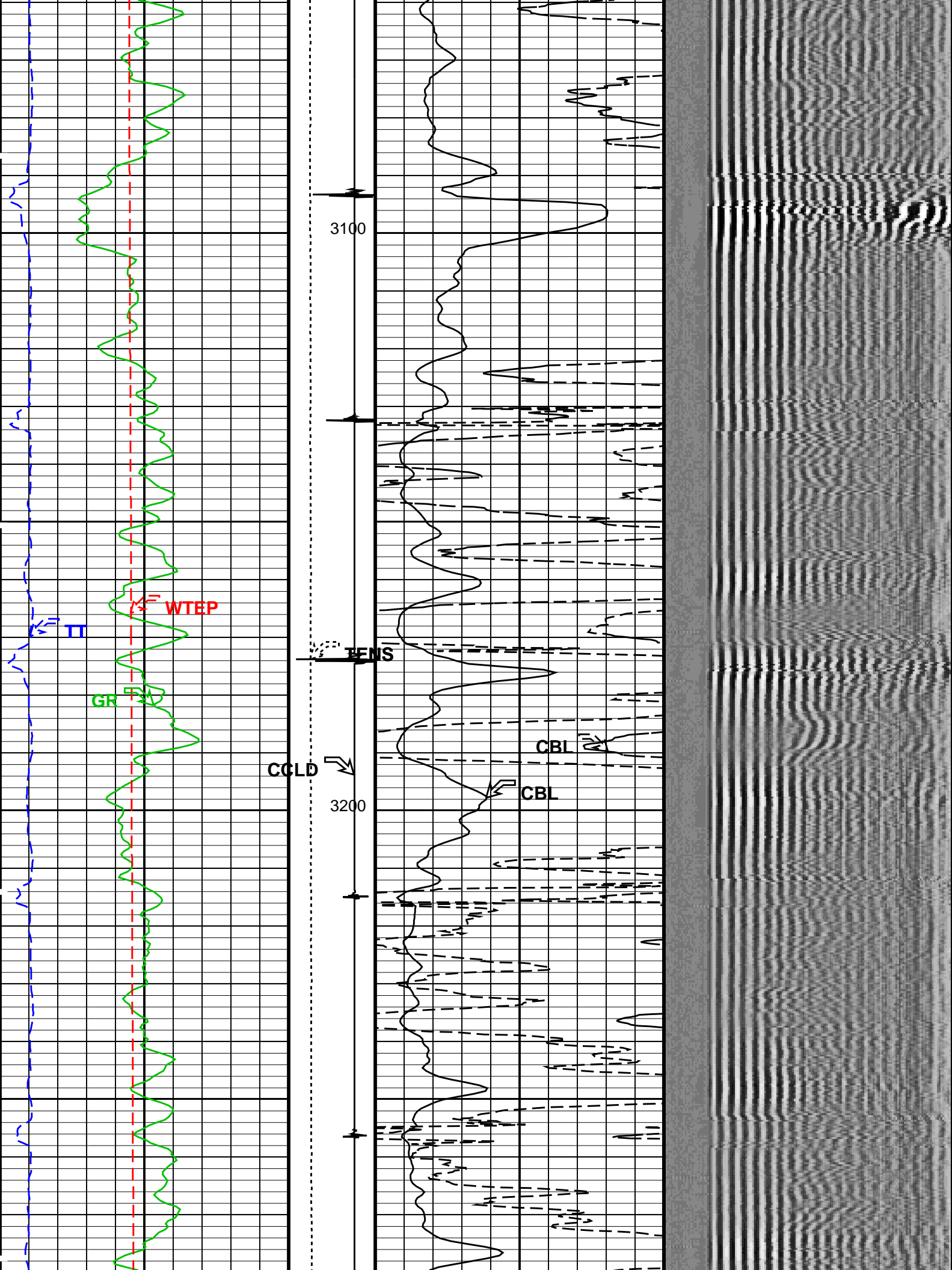


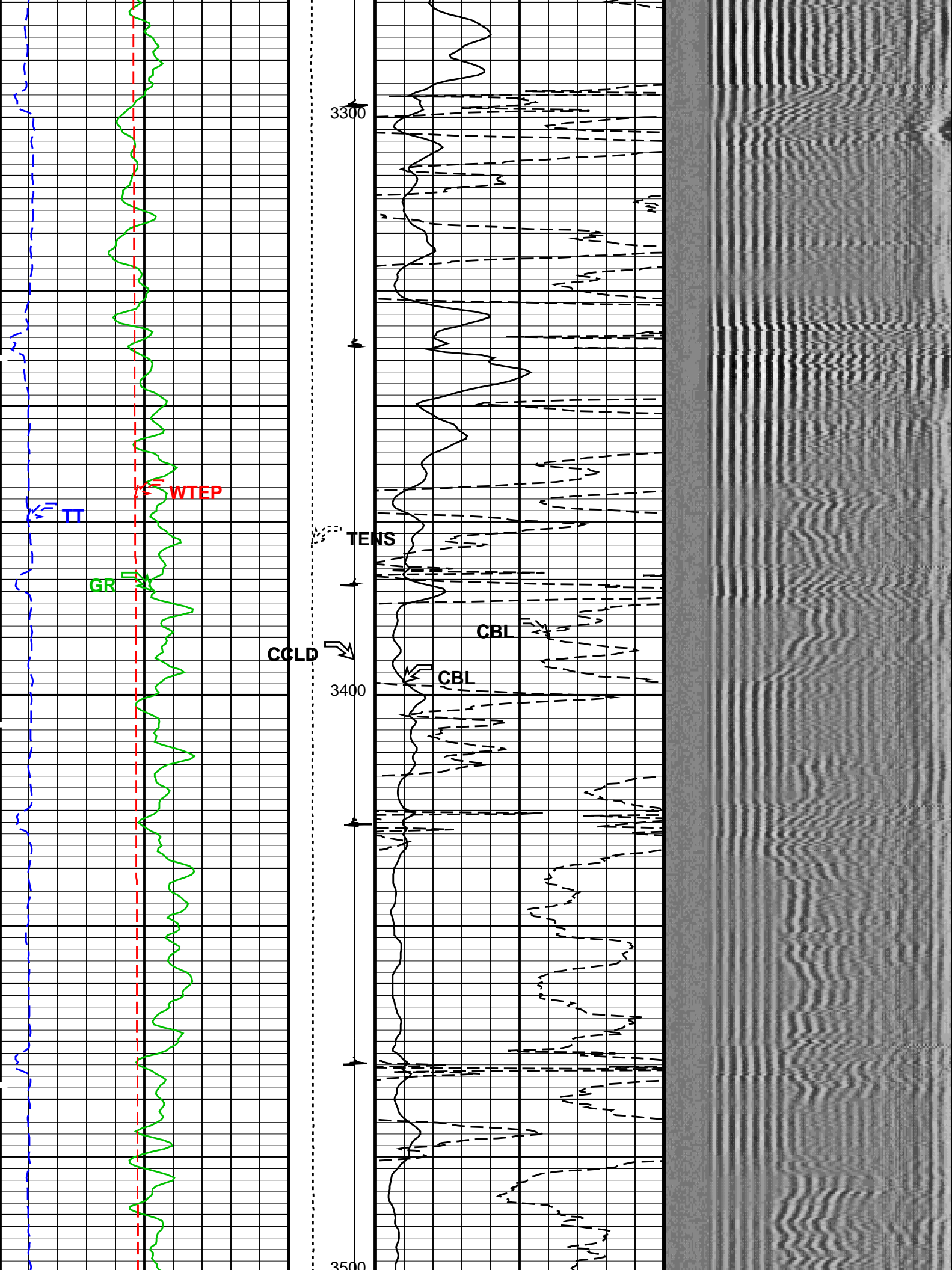


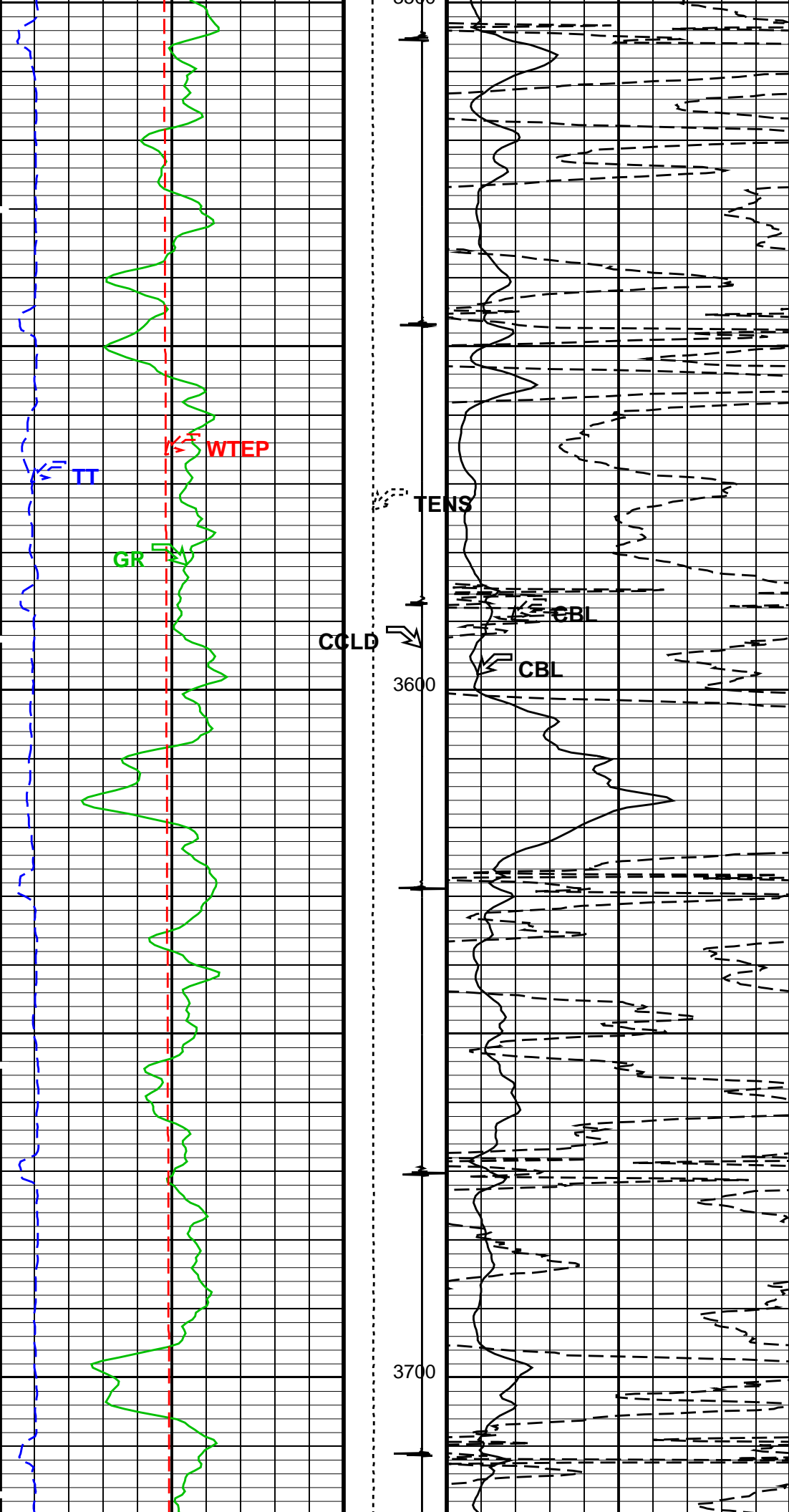


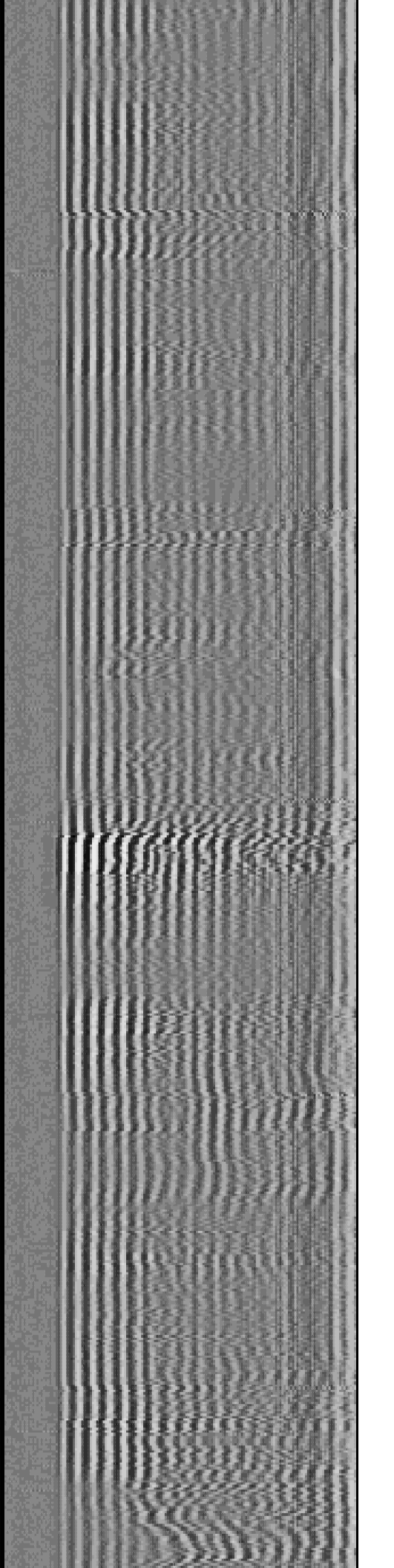
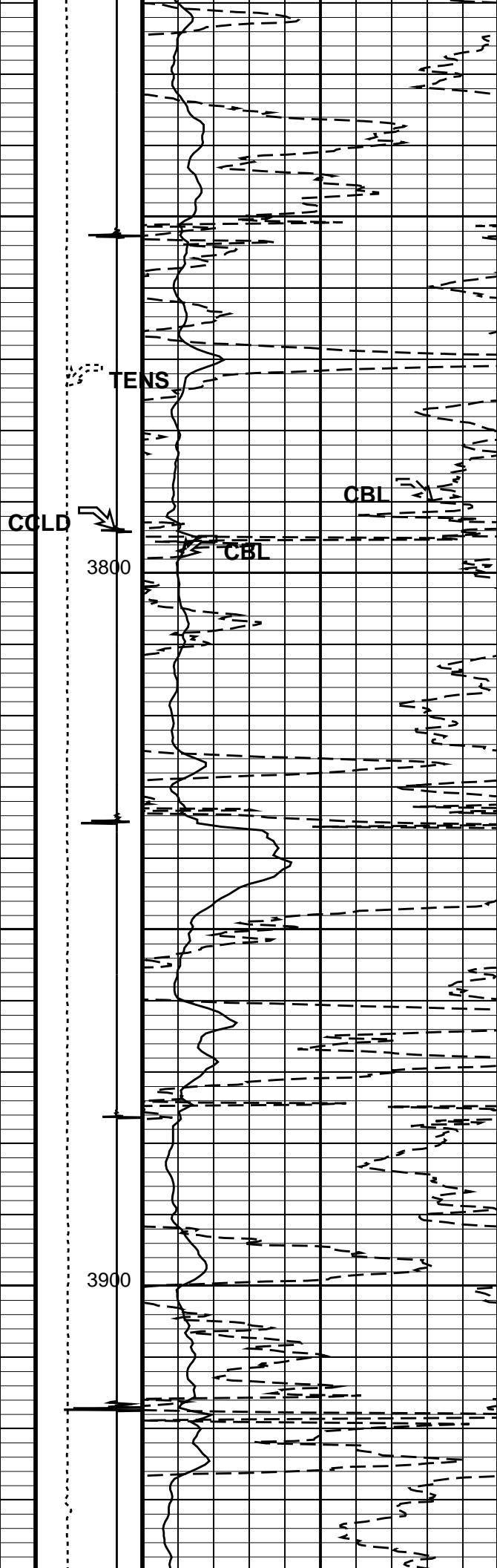
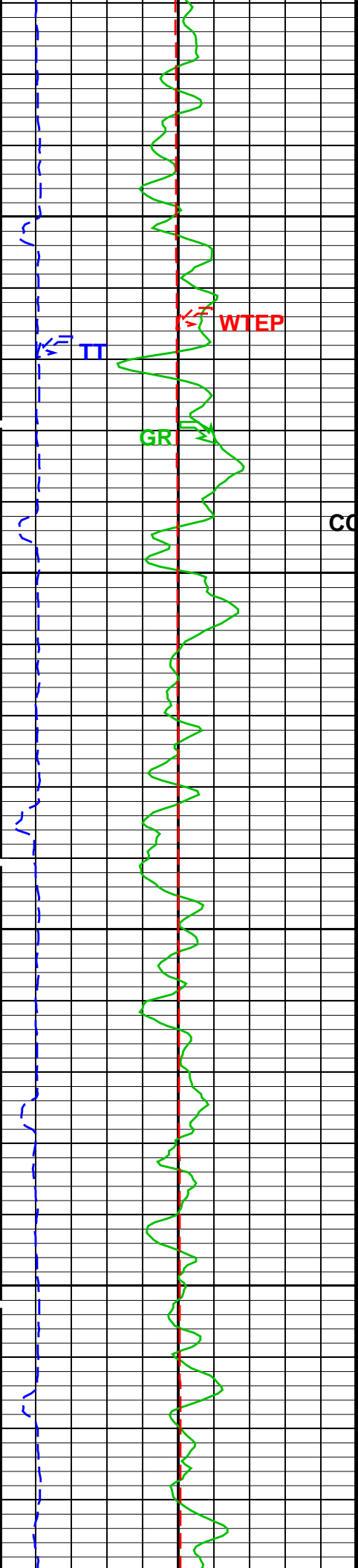


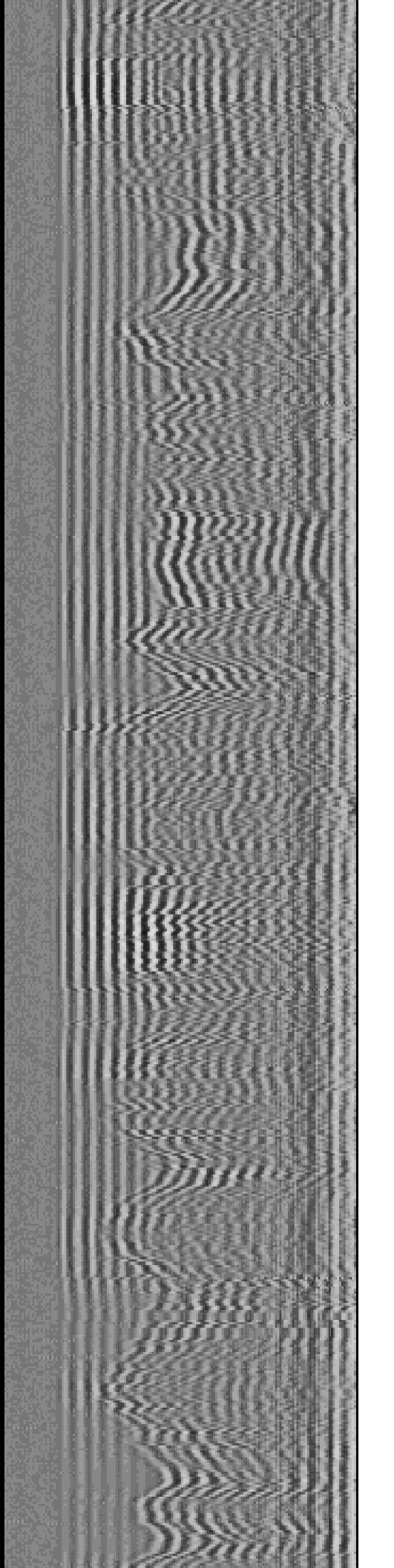
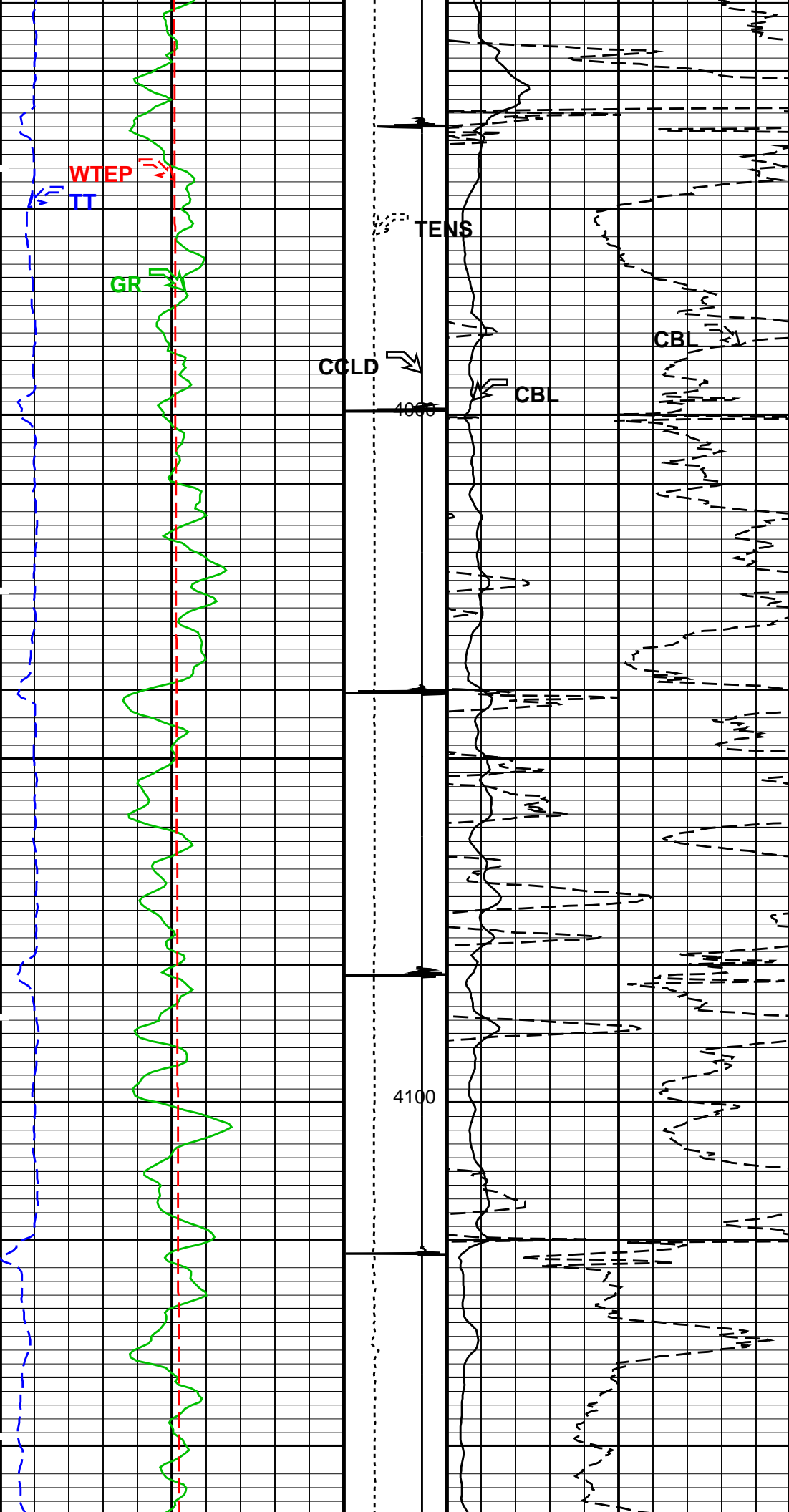


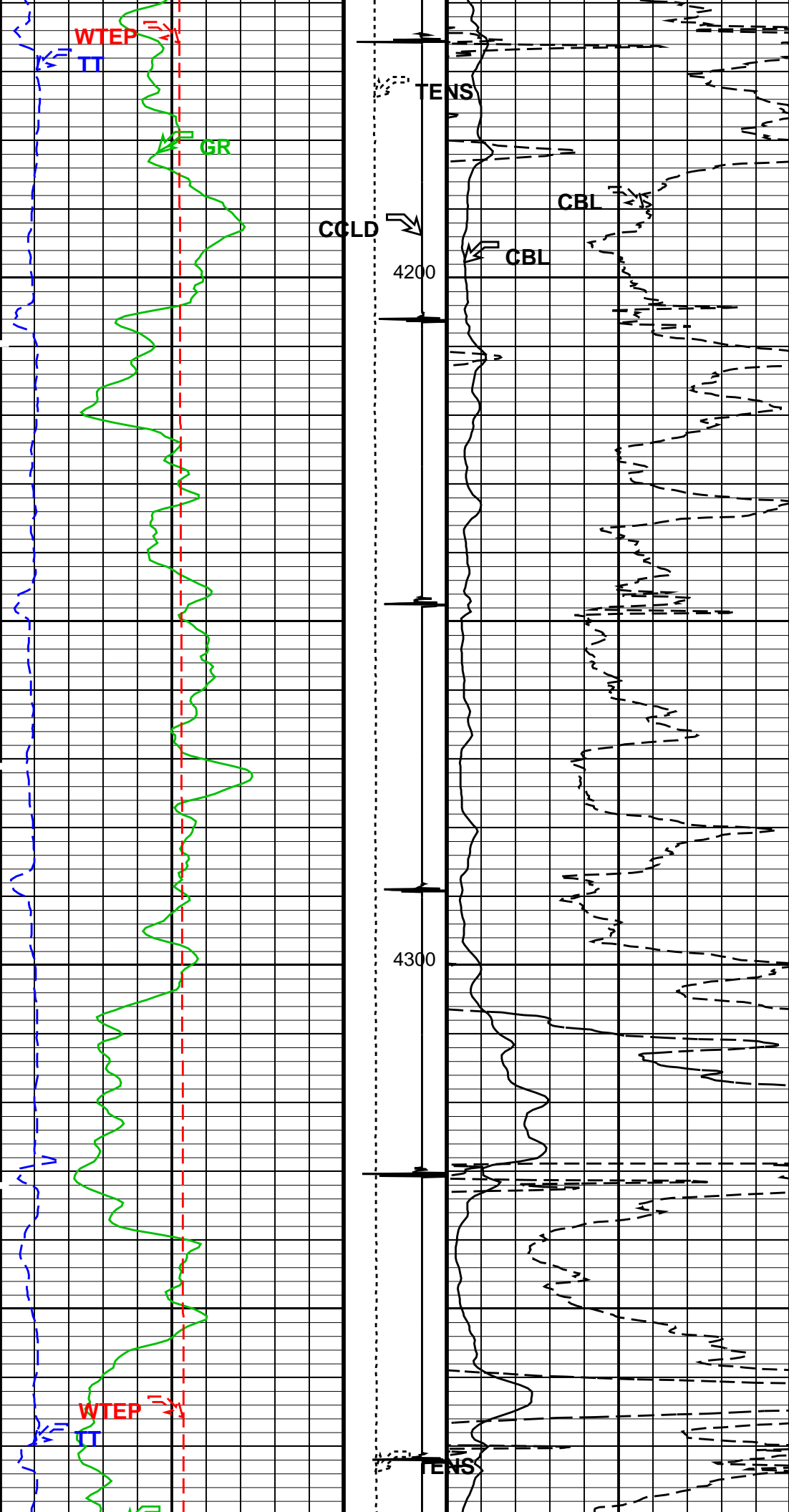


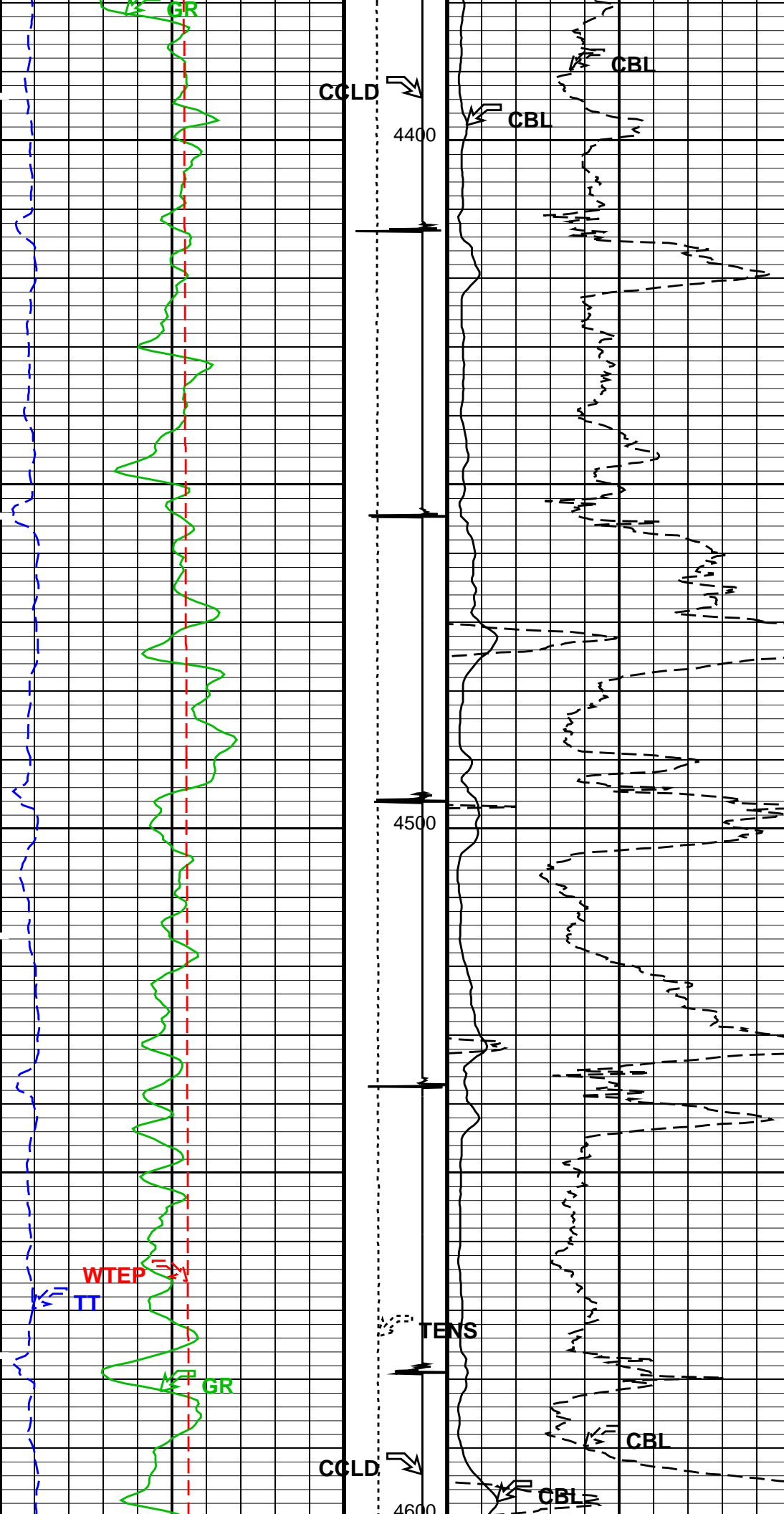


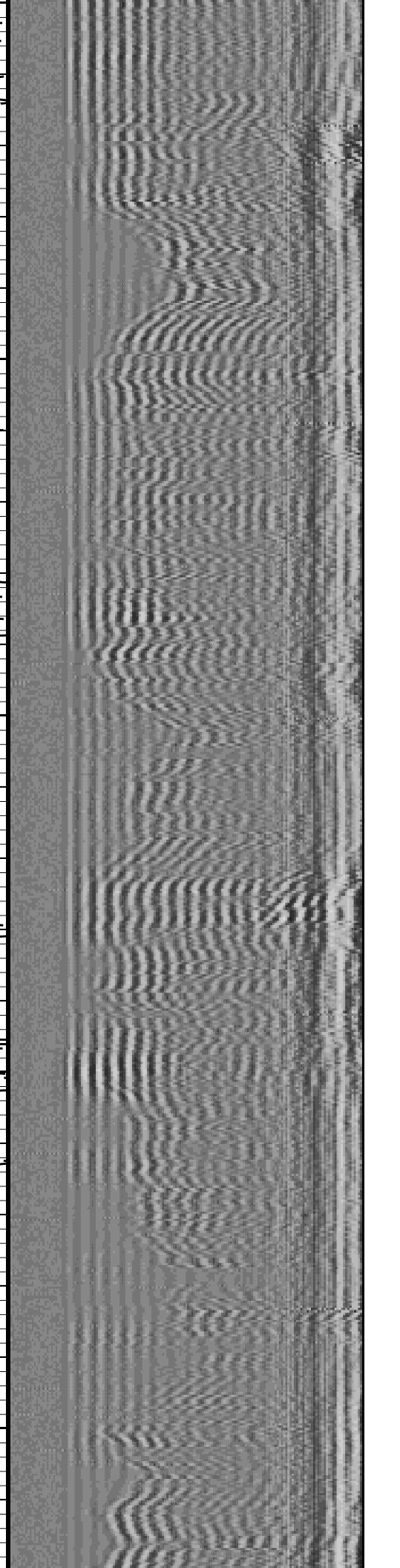
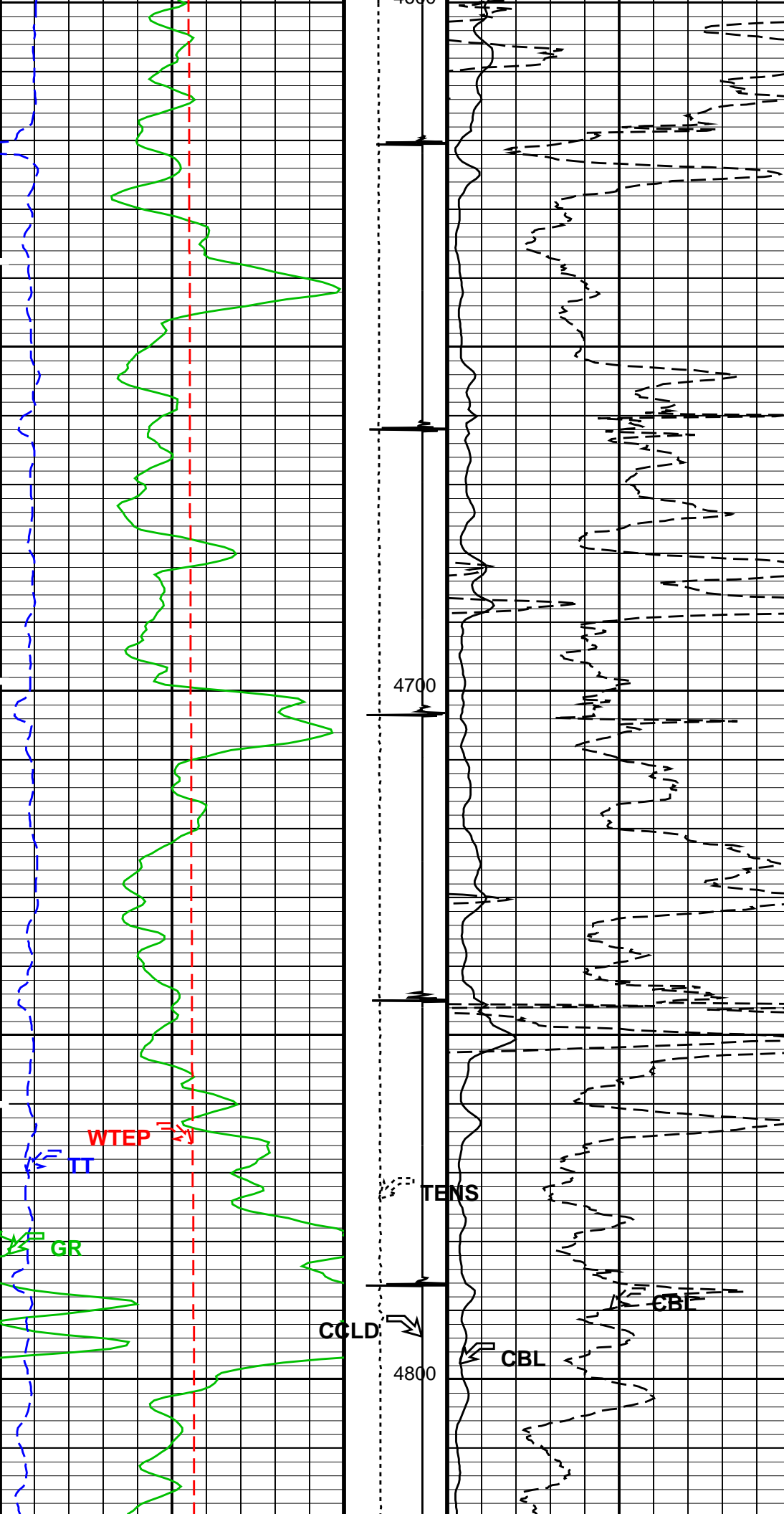


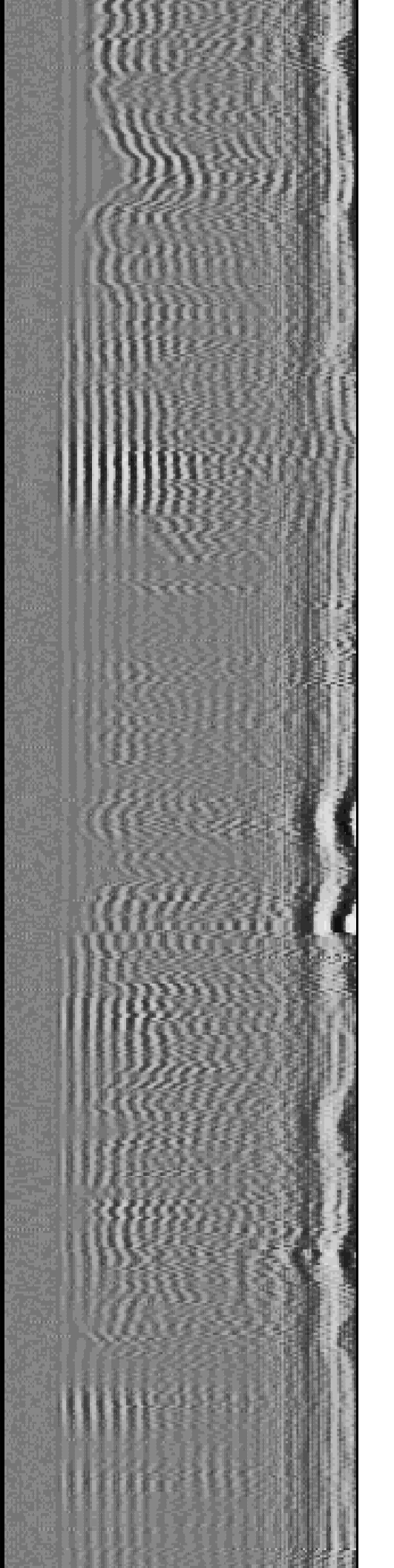
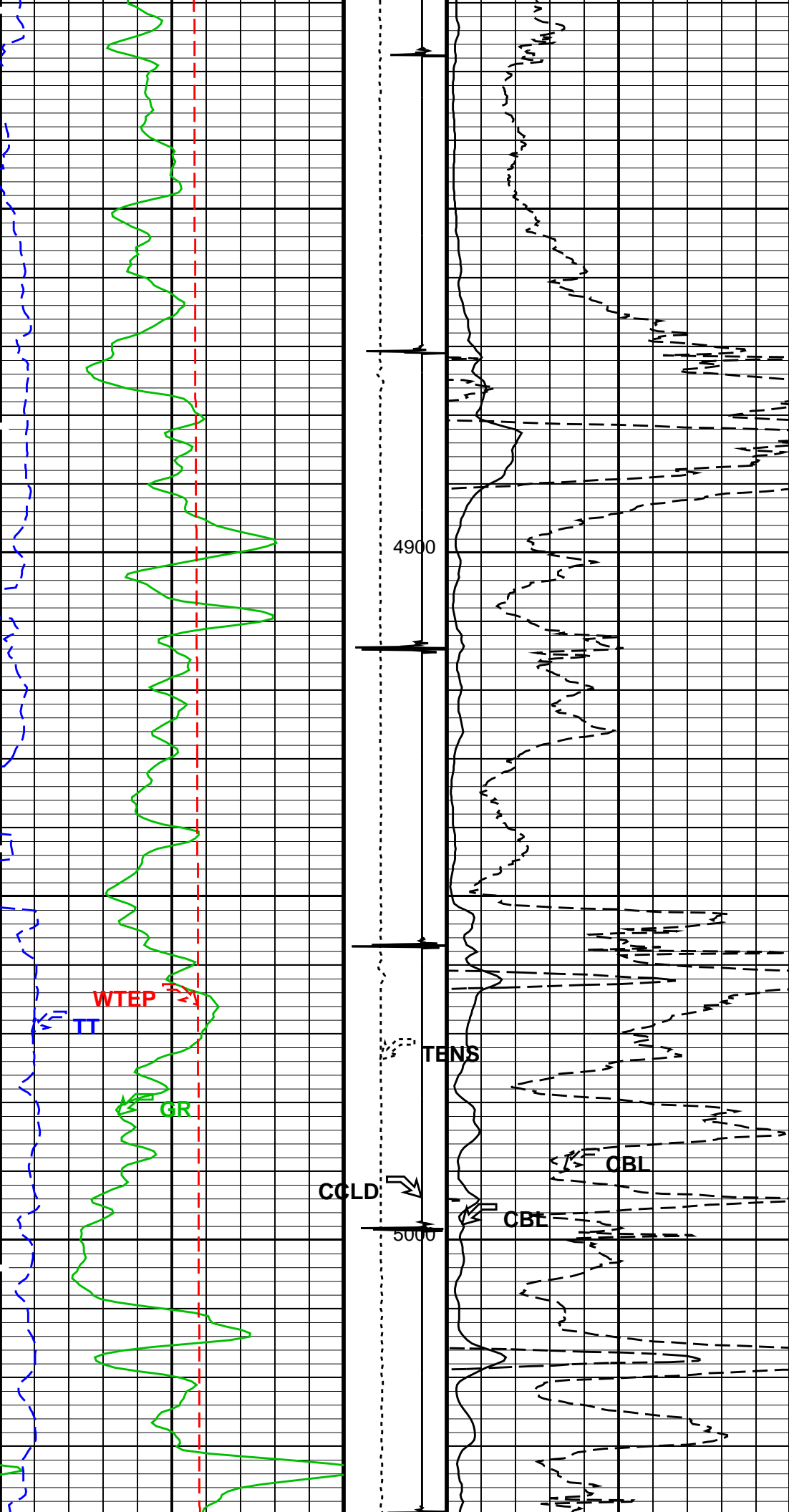


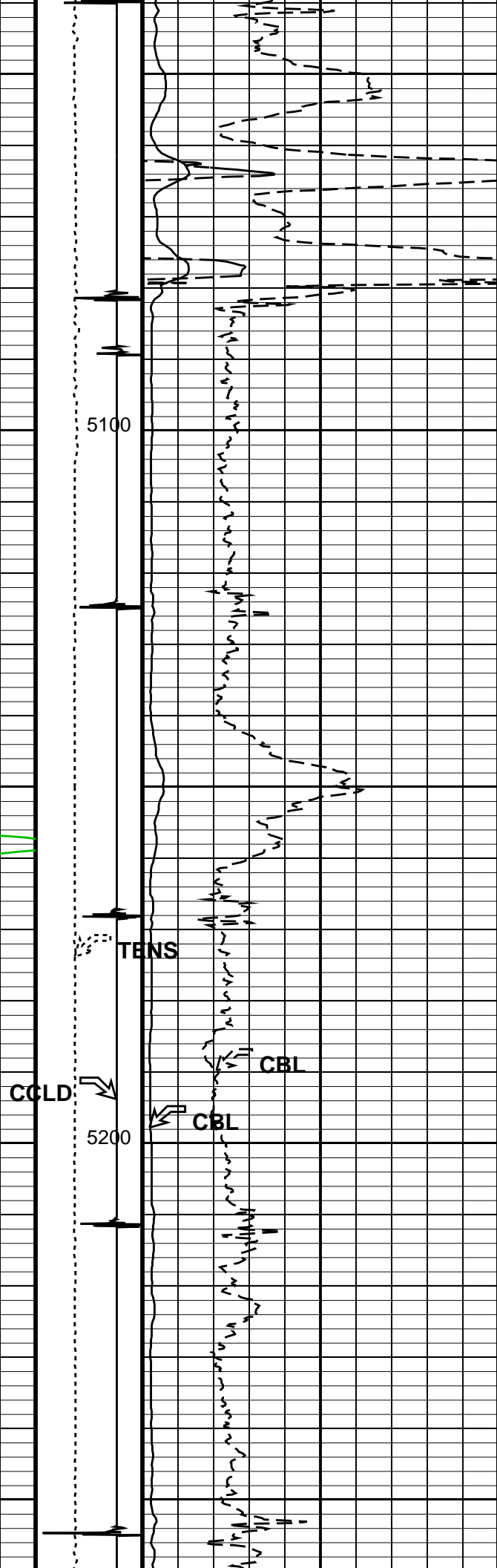
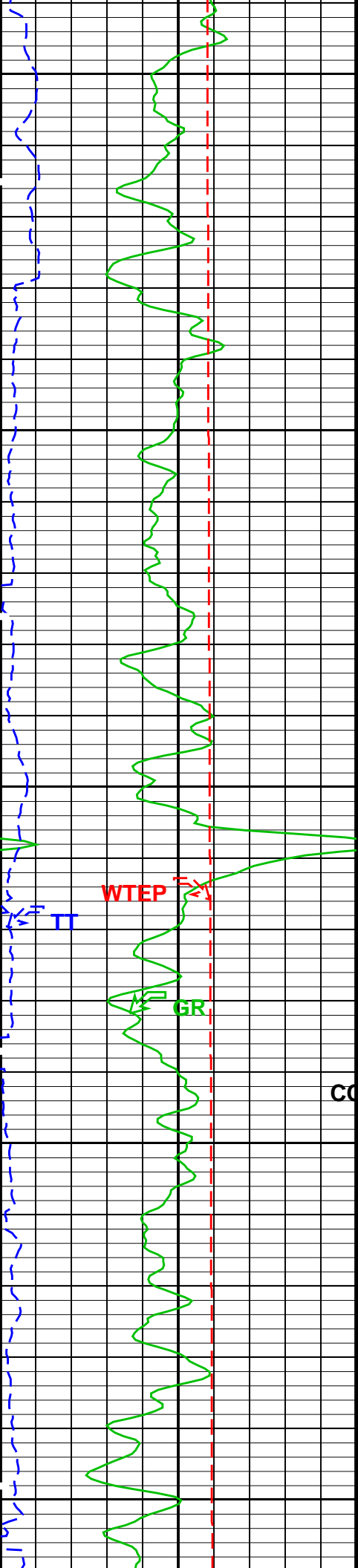












5100

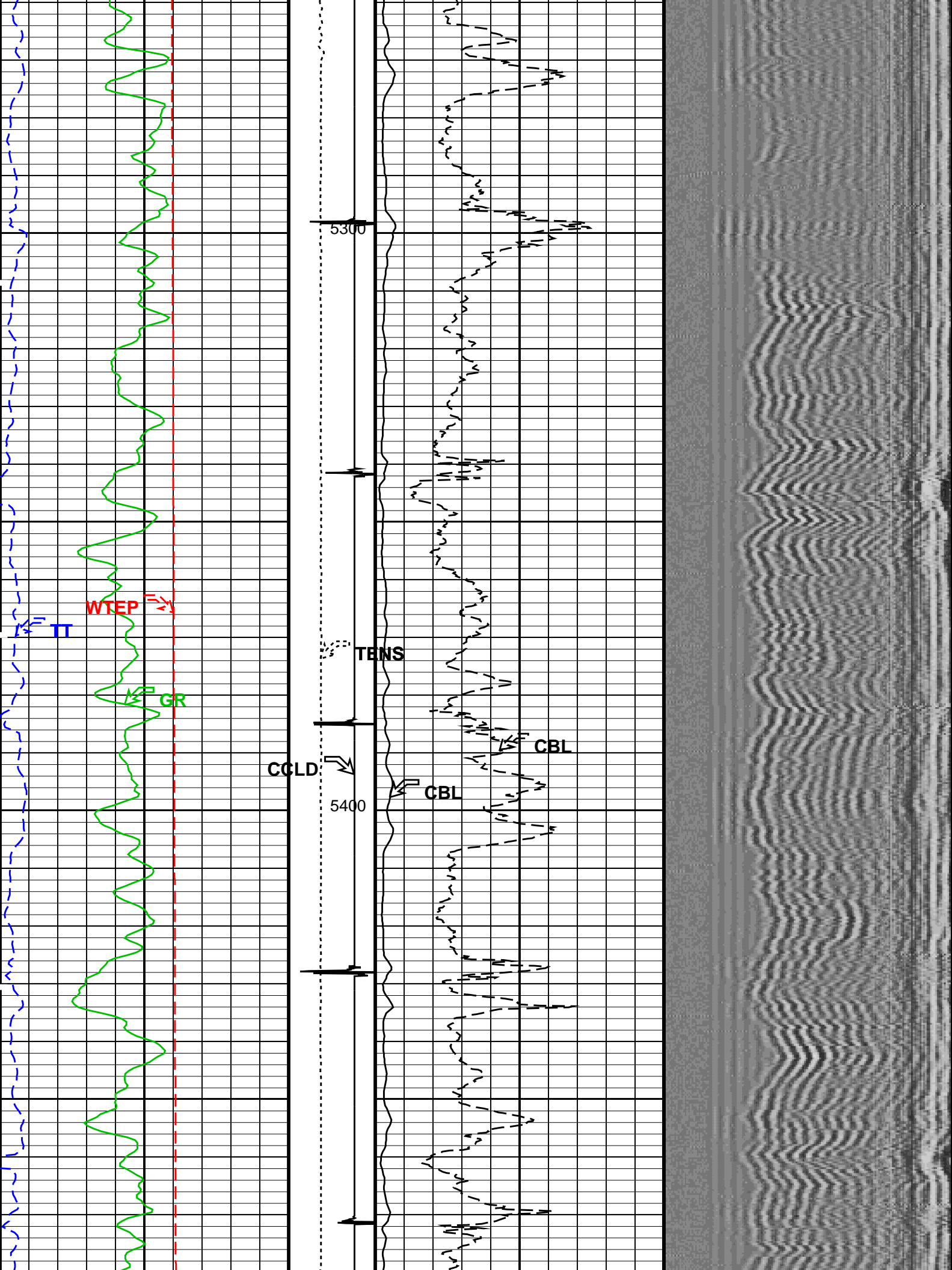
TENS

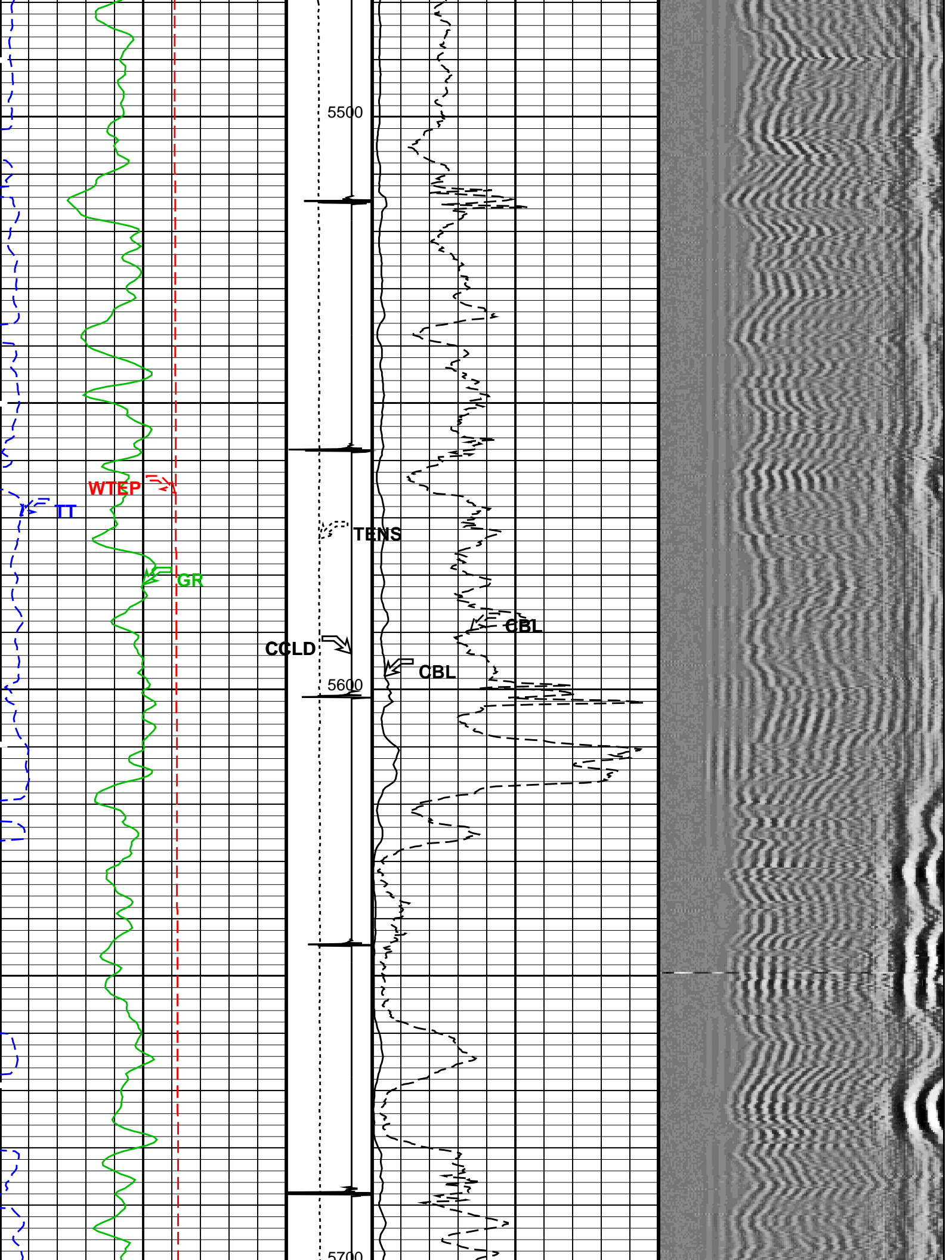
CBL

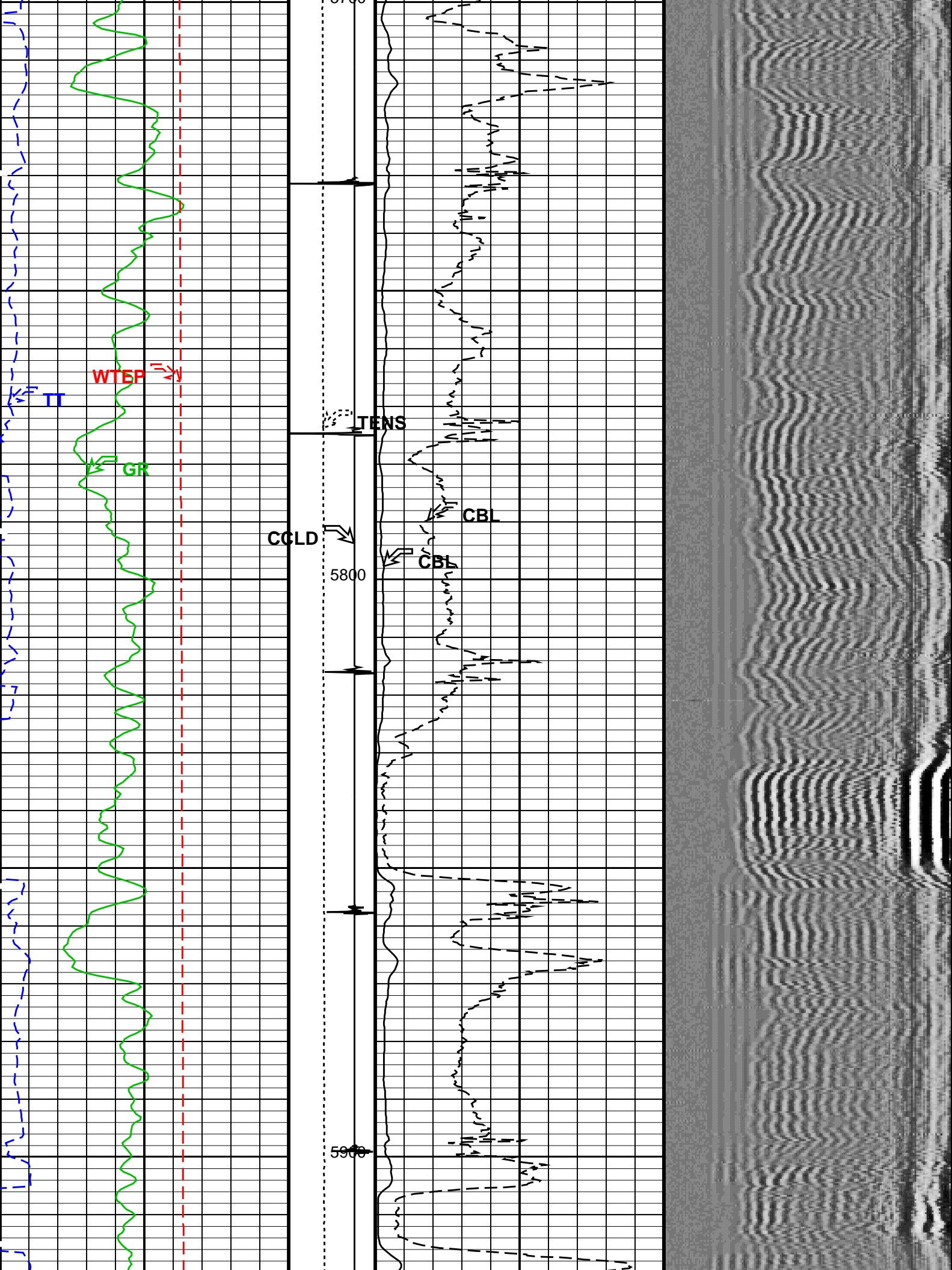
CCLD

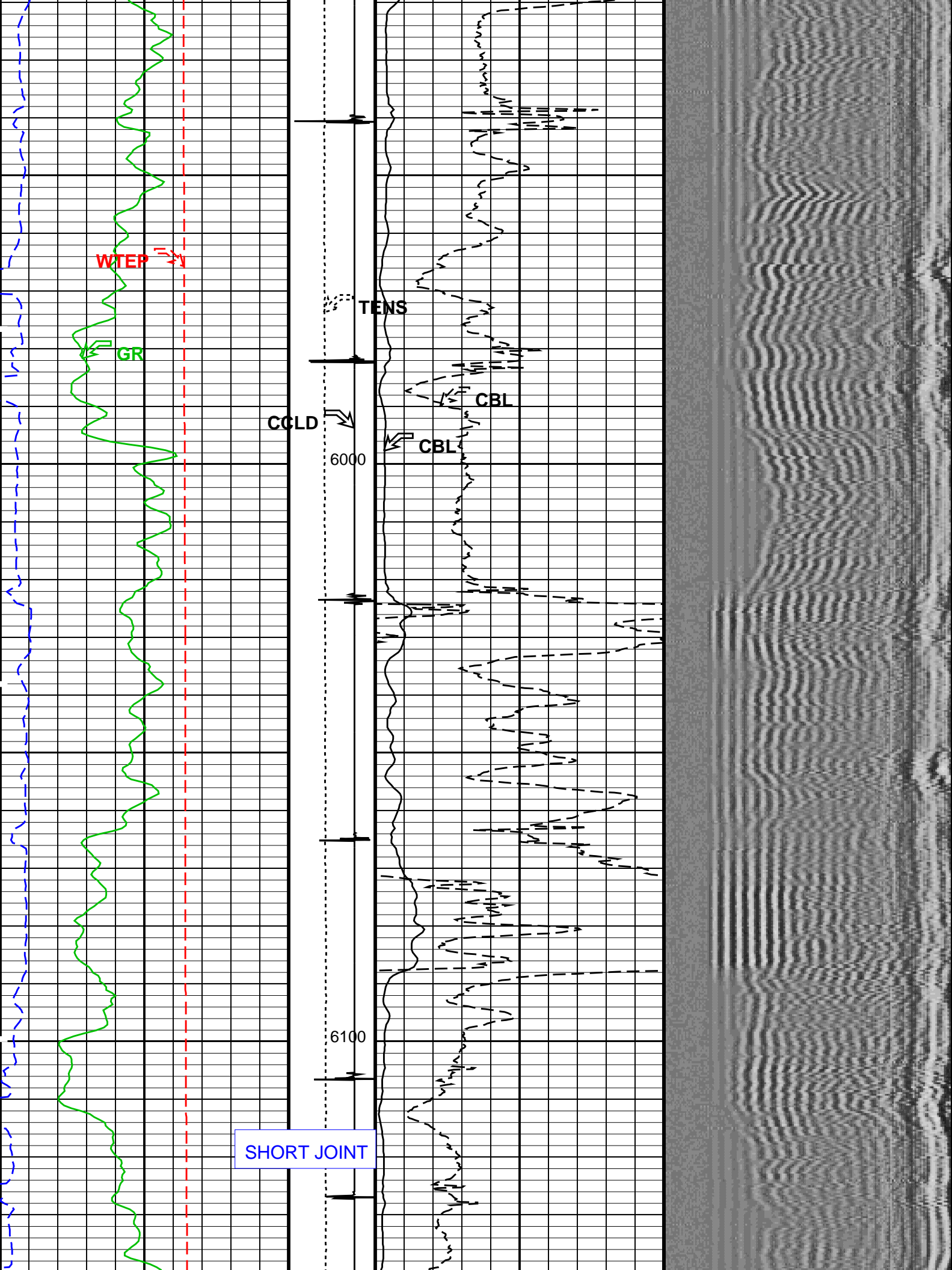
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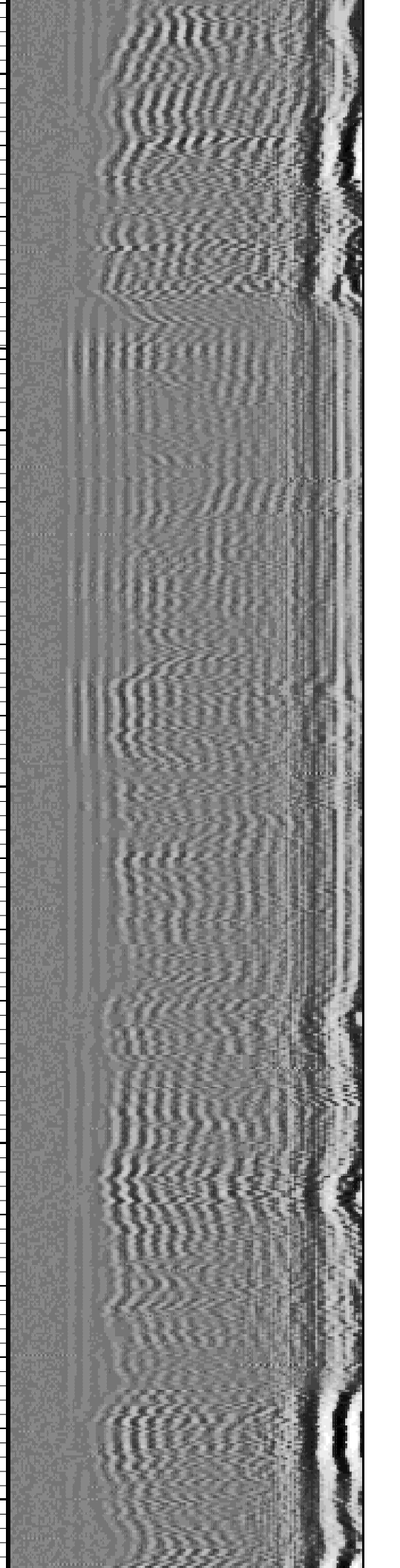
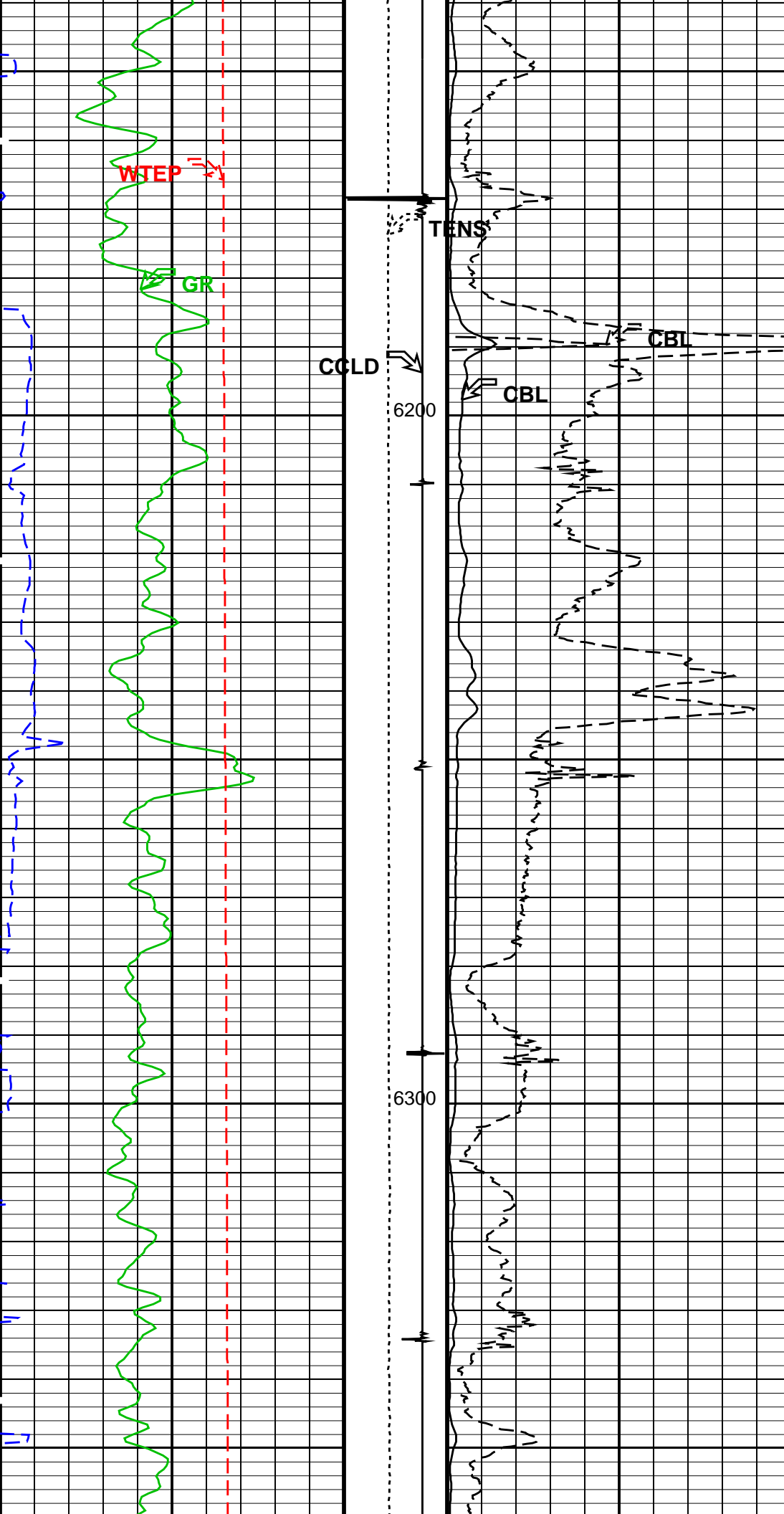
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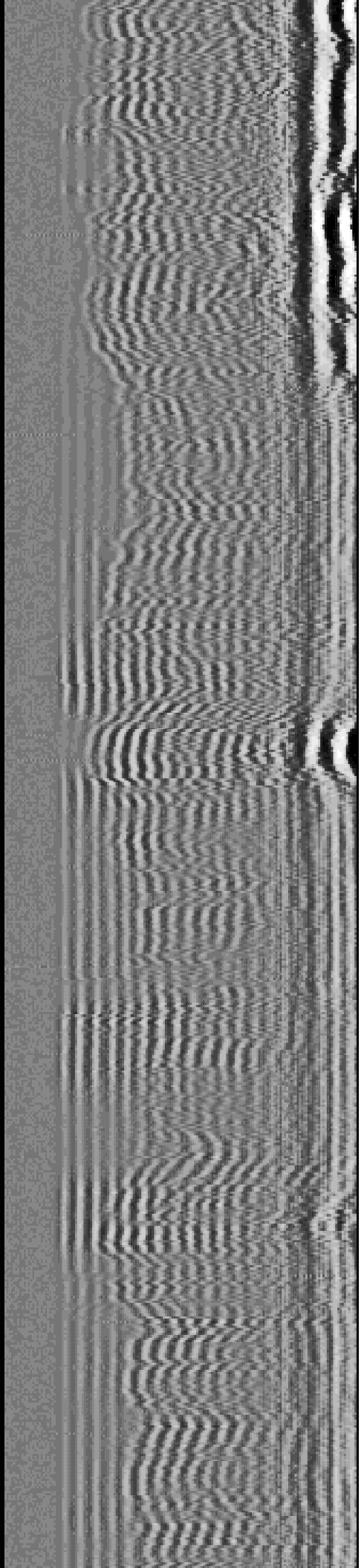
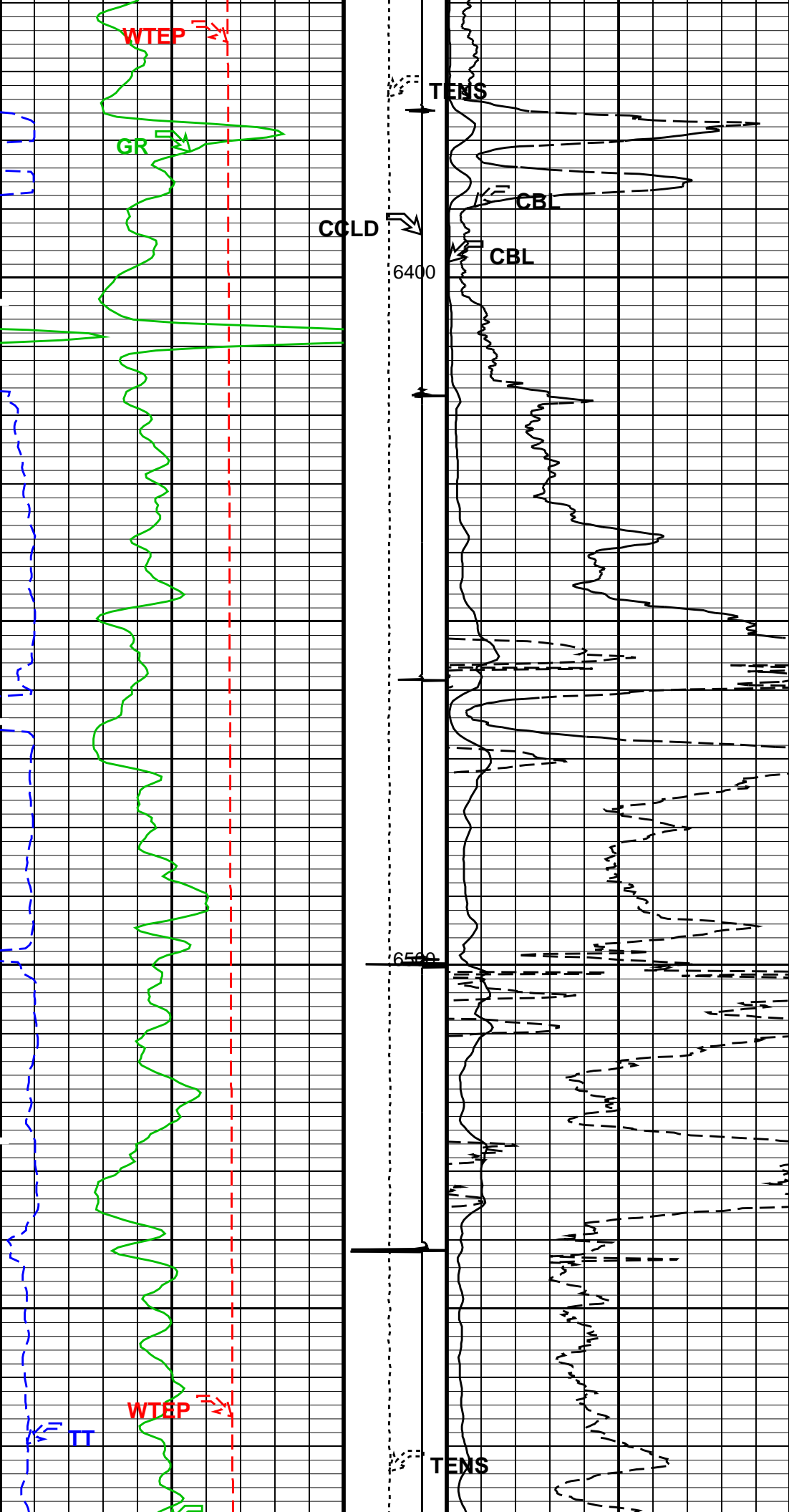


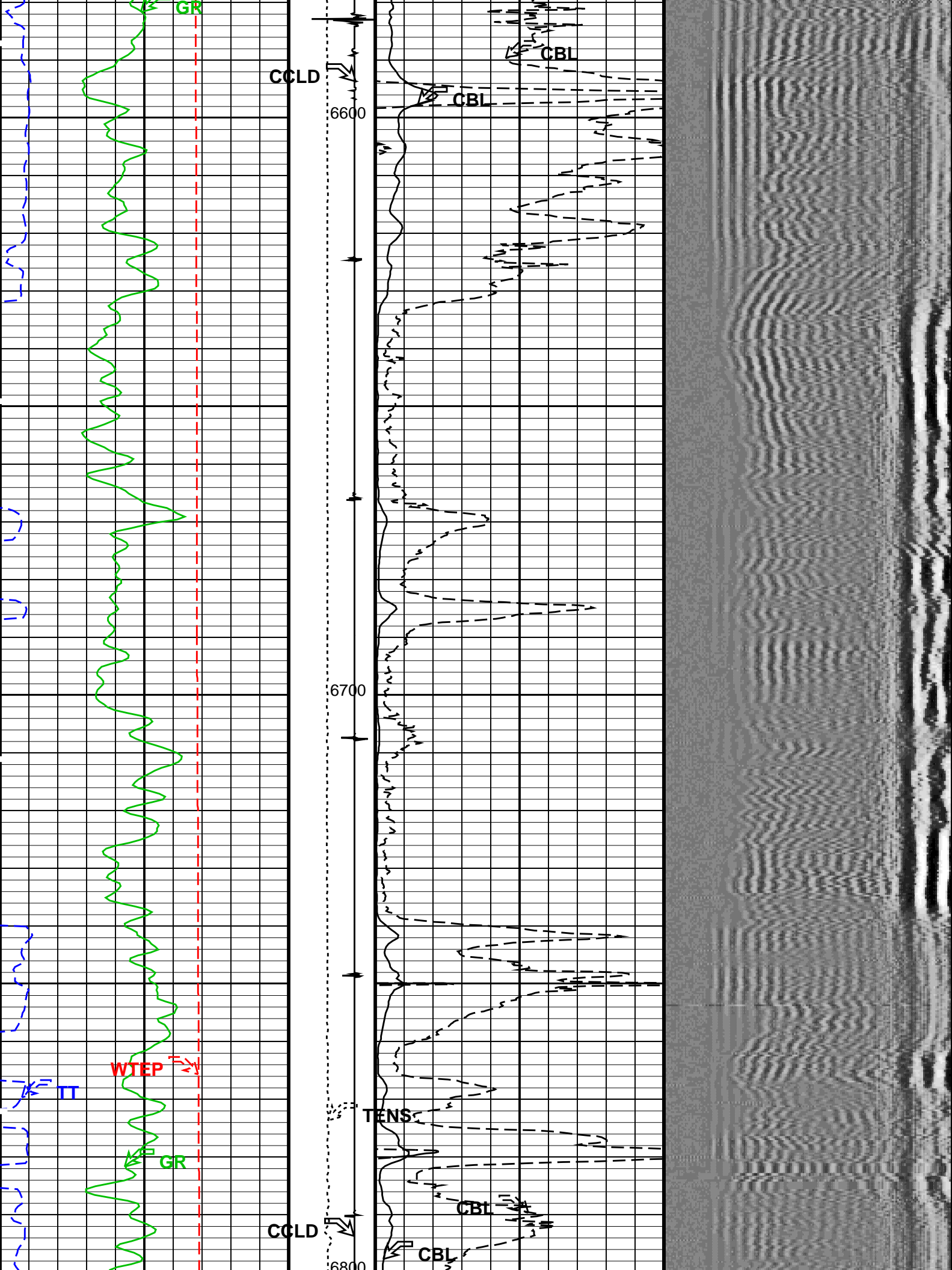


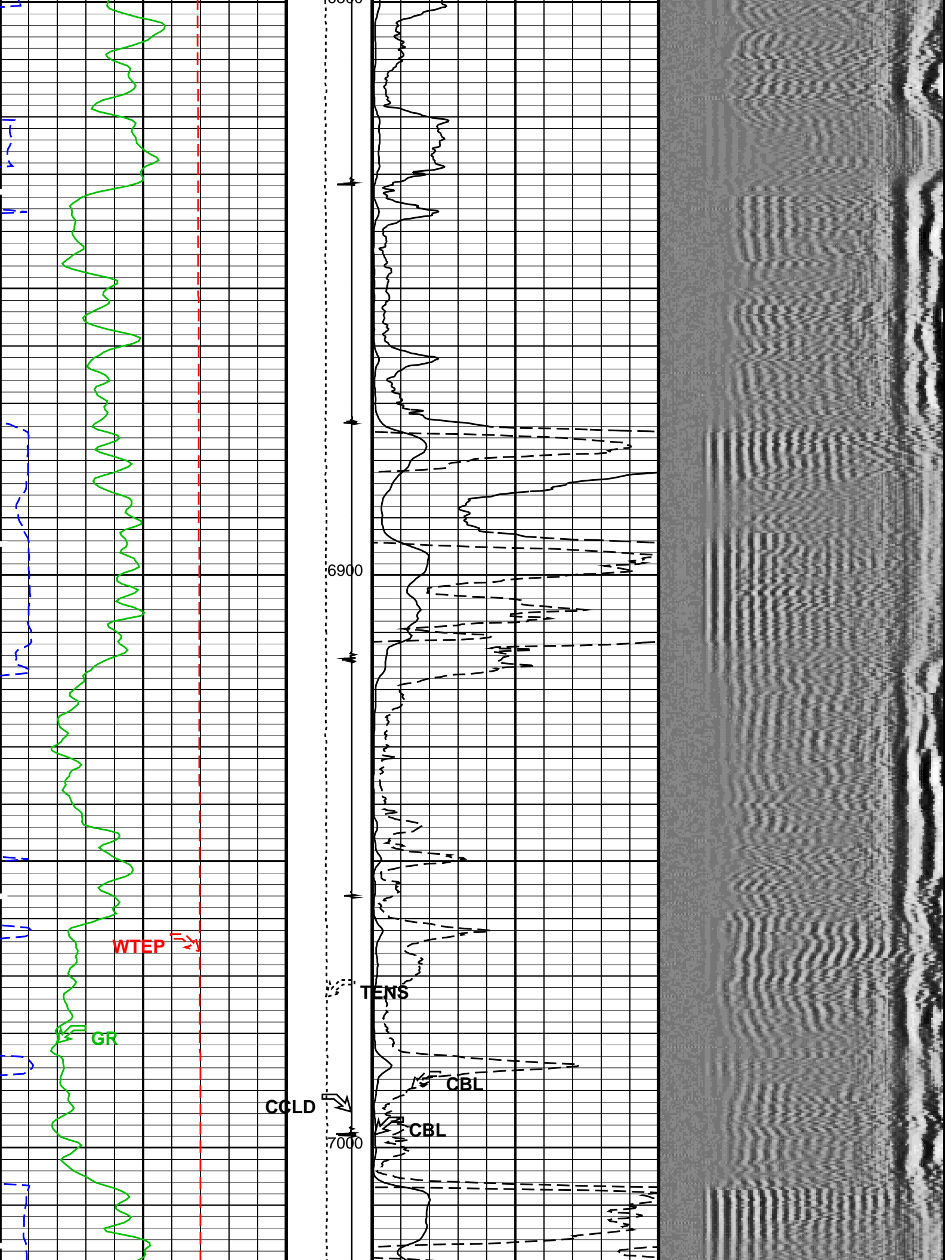


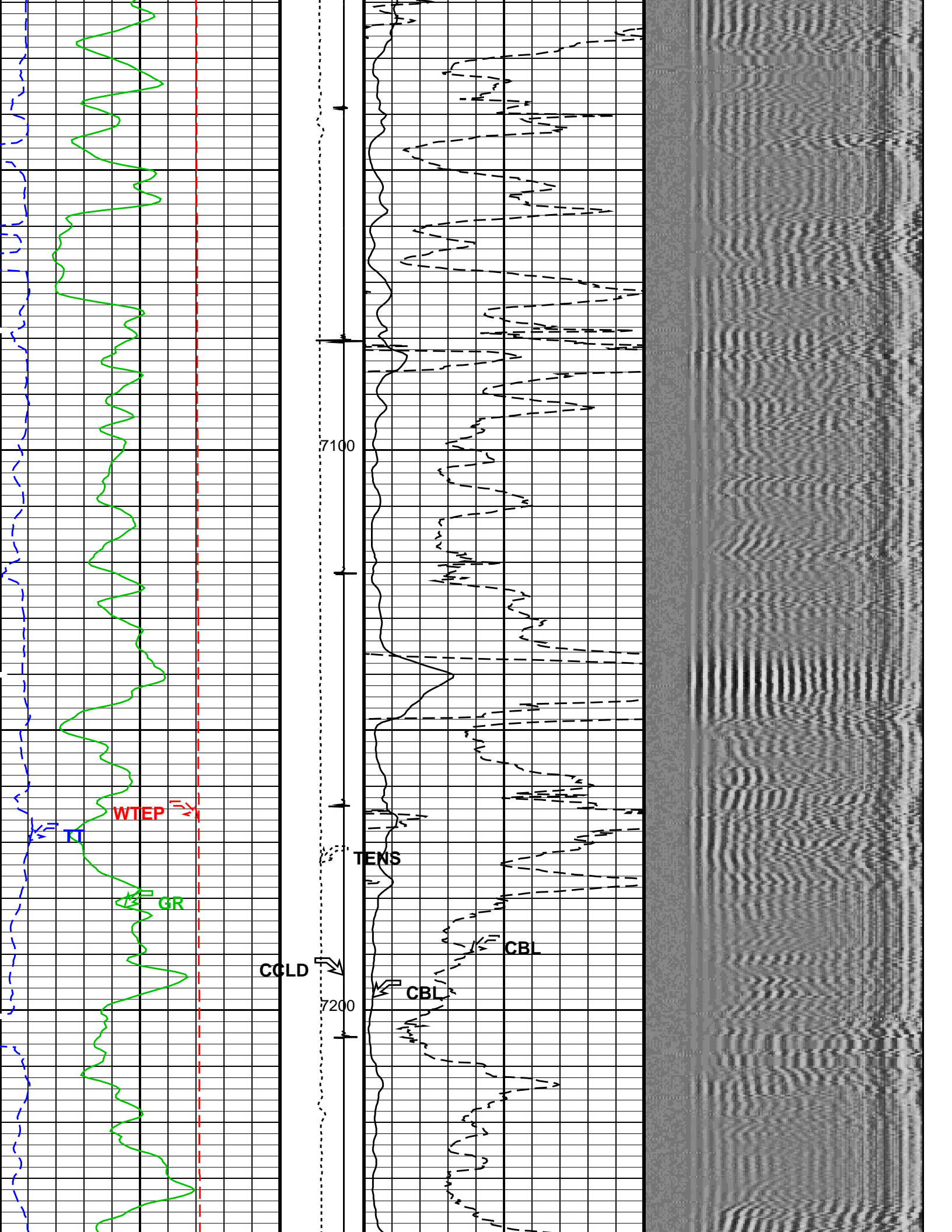


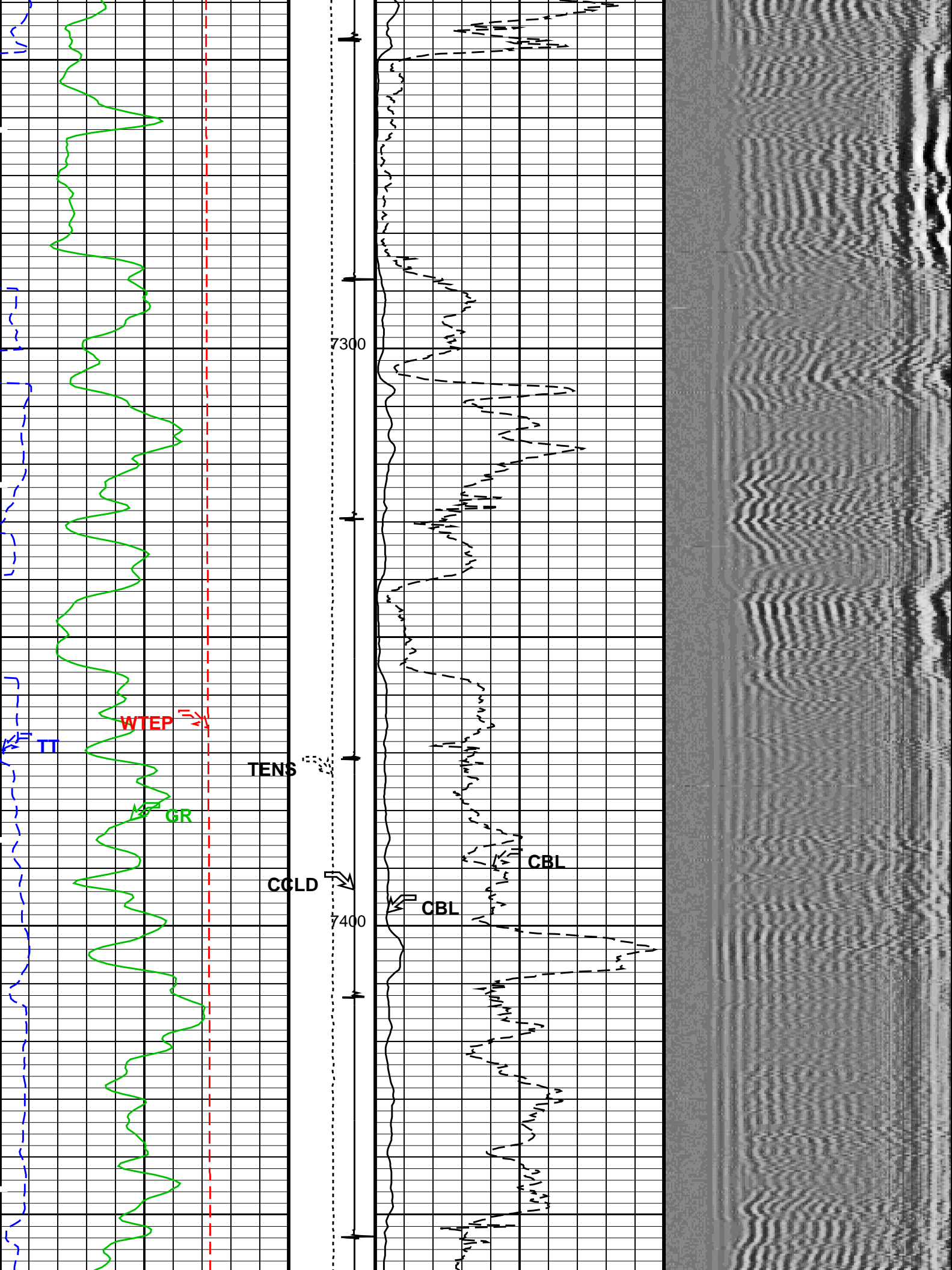


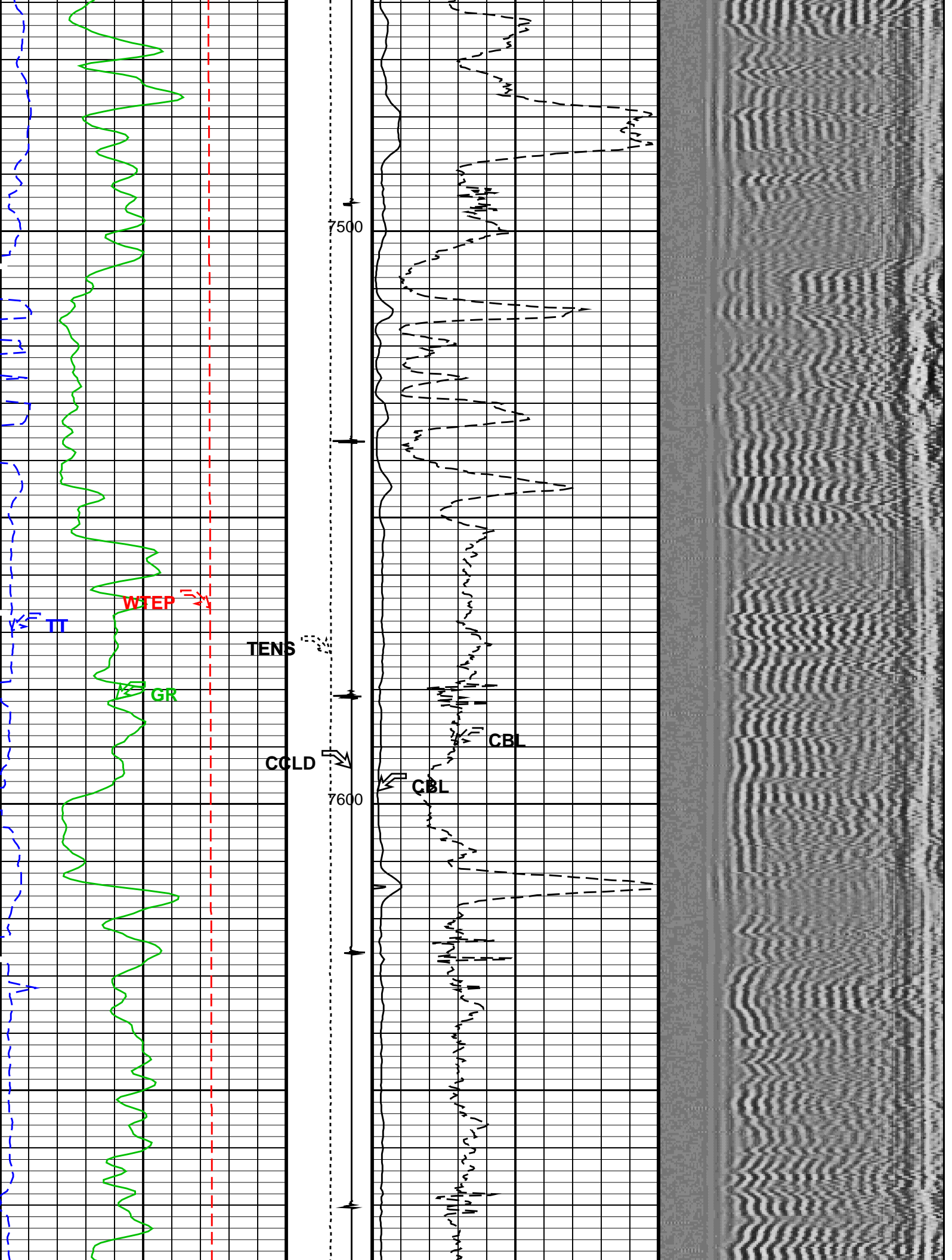


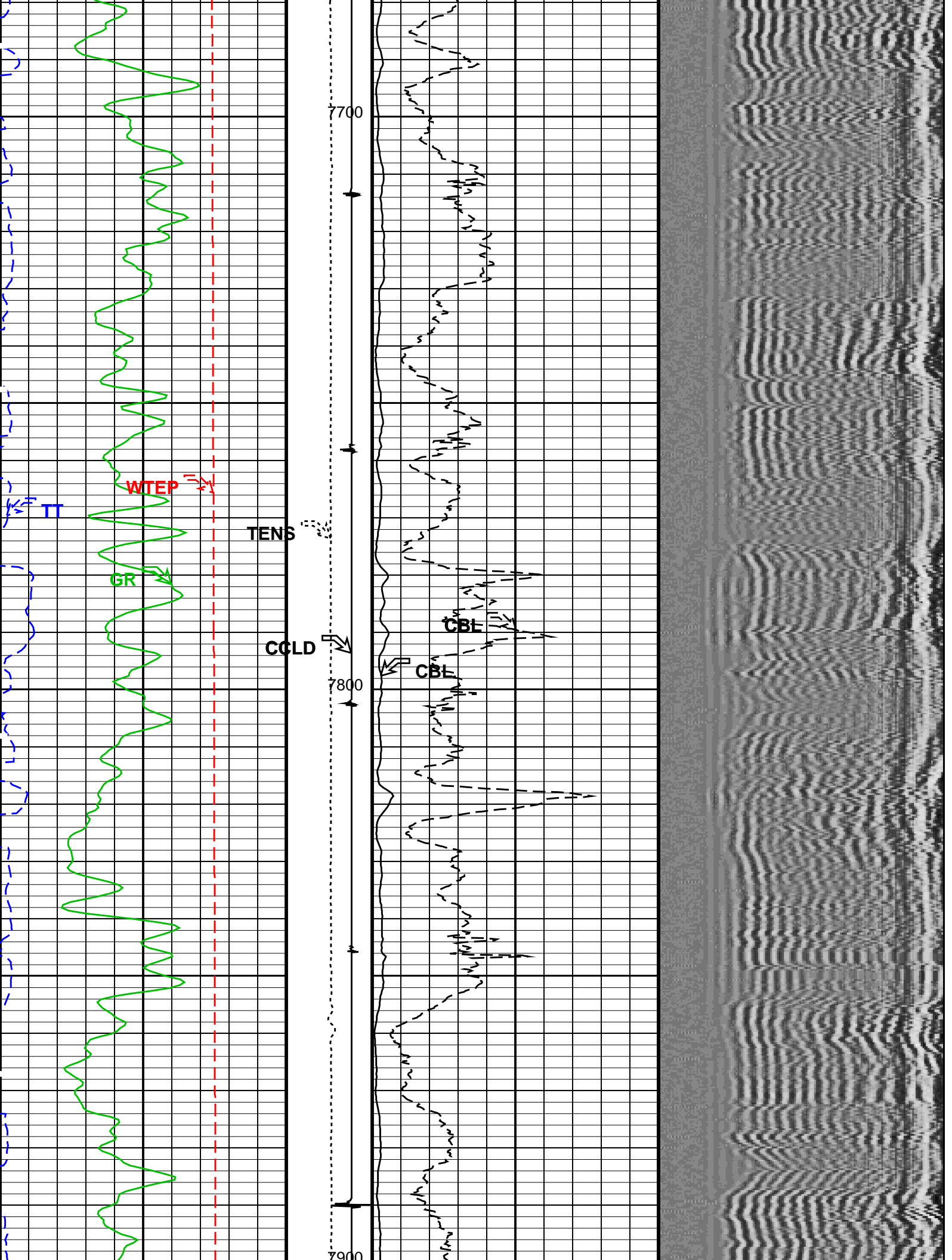


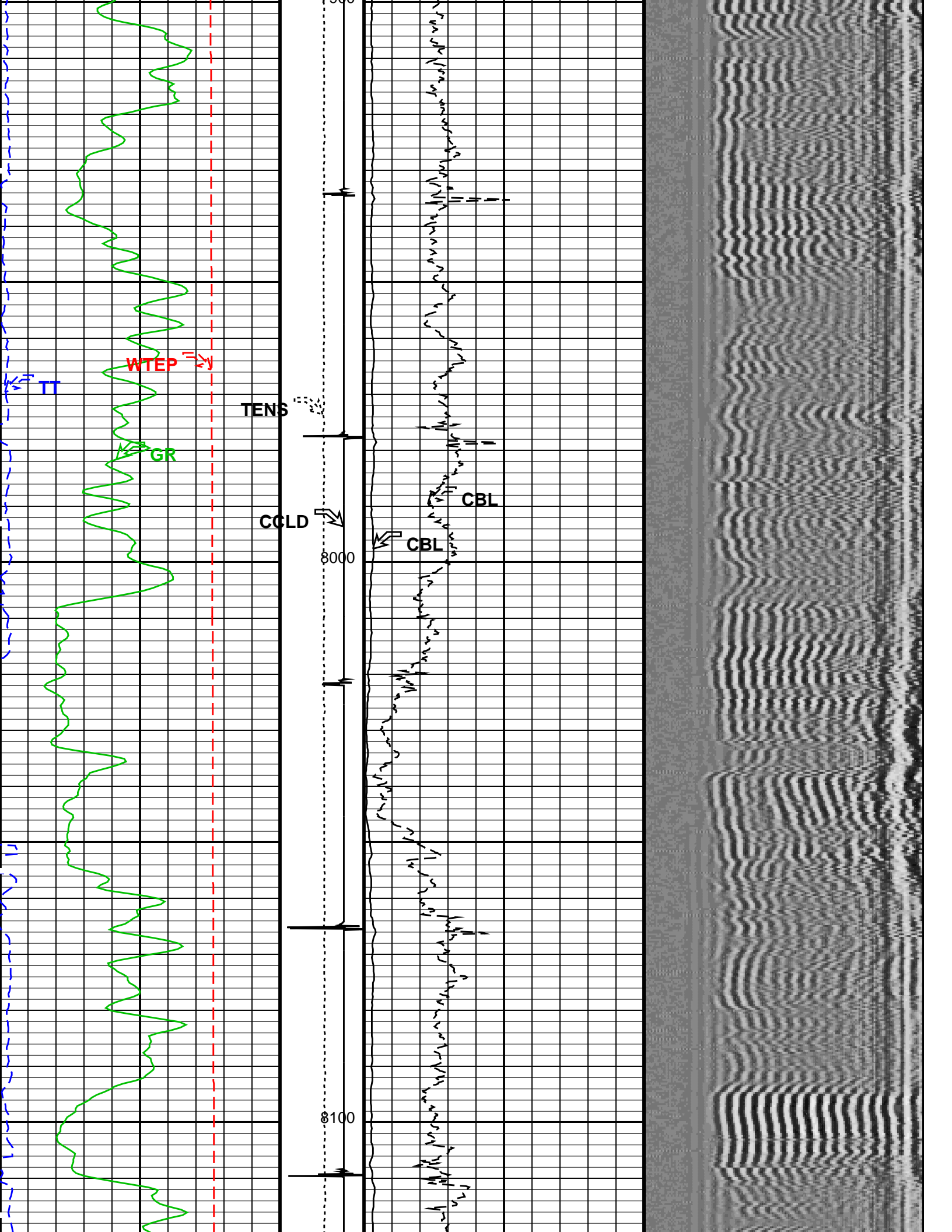


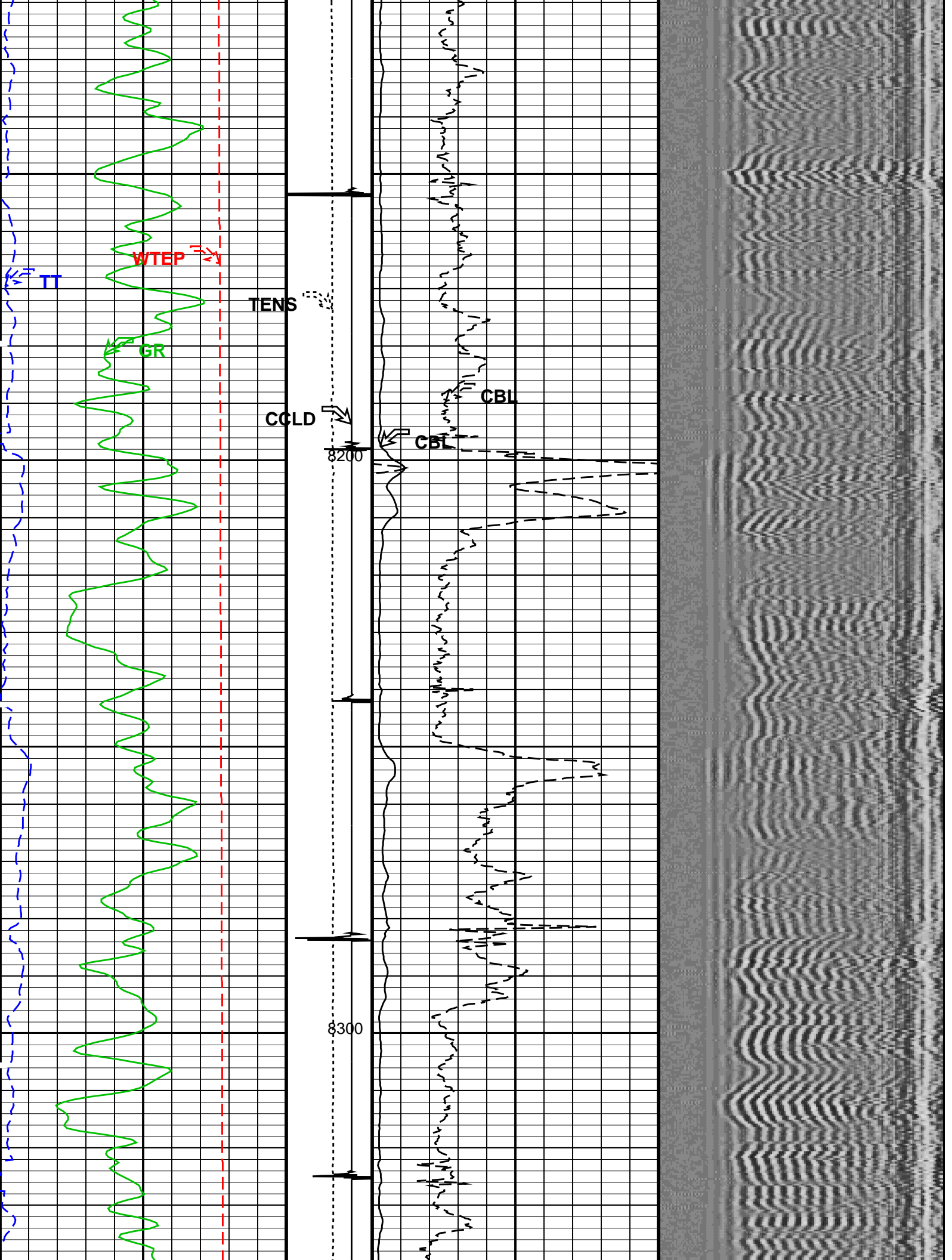


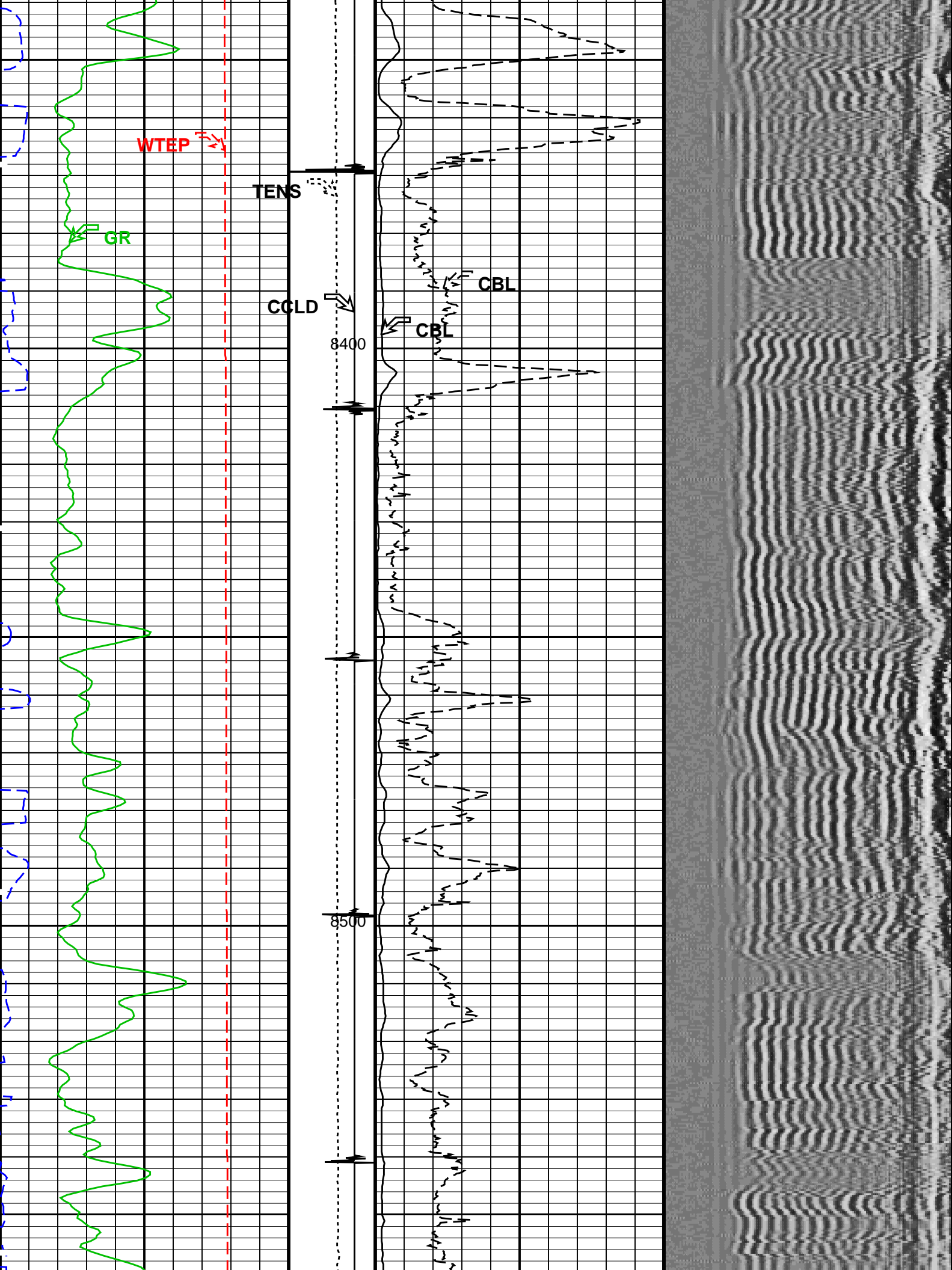


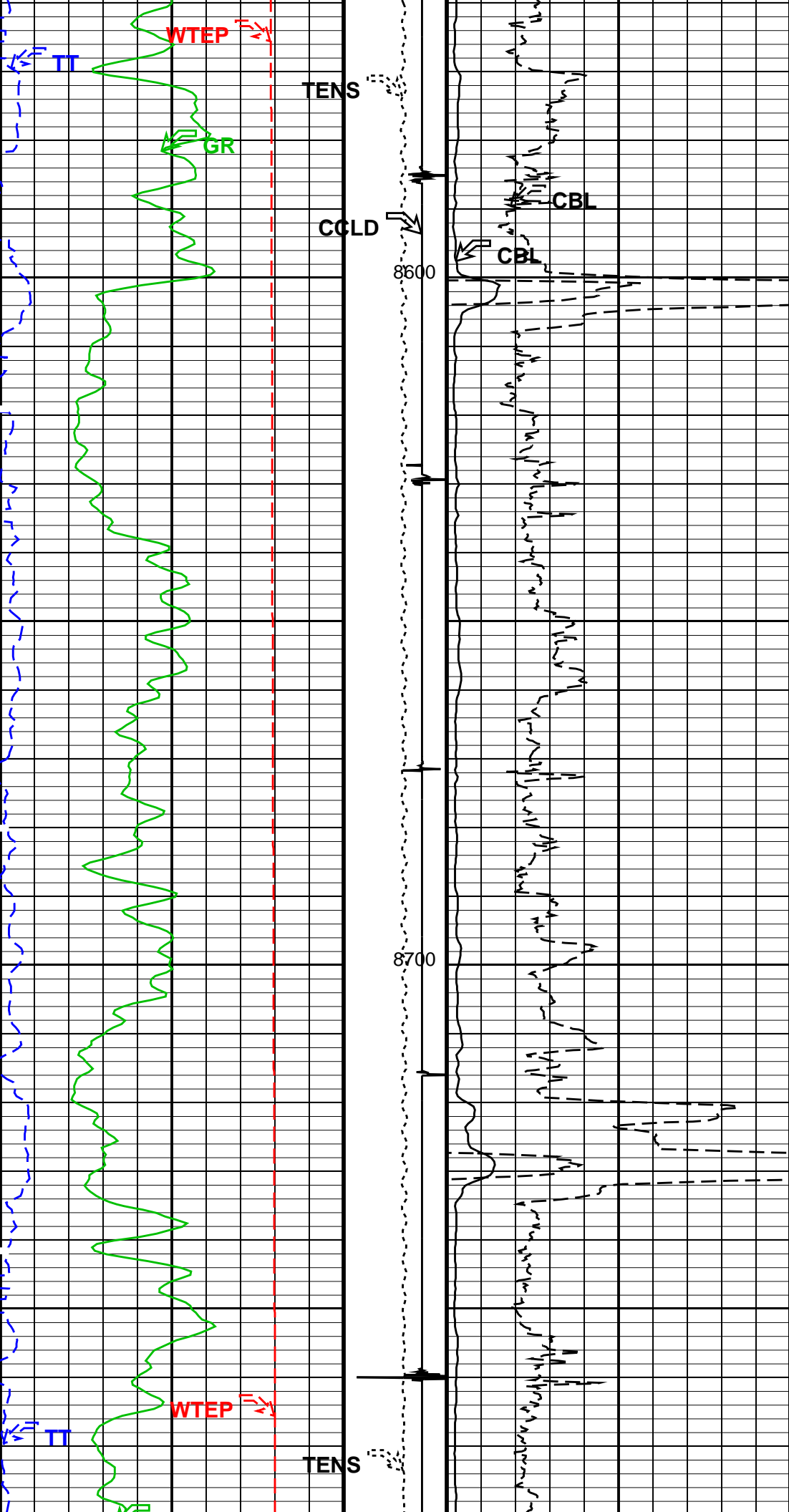


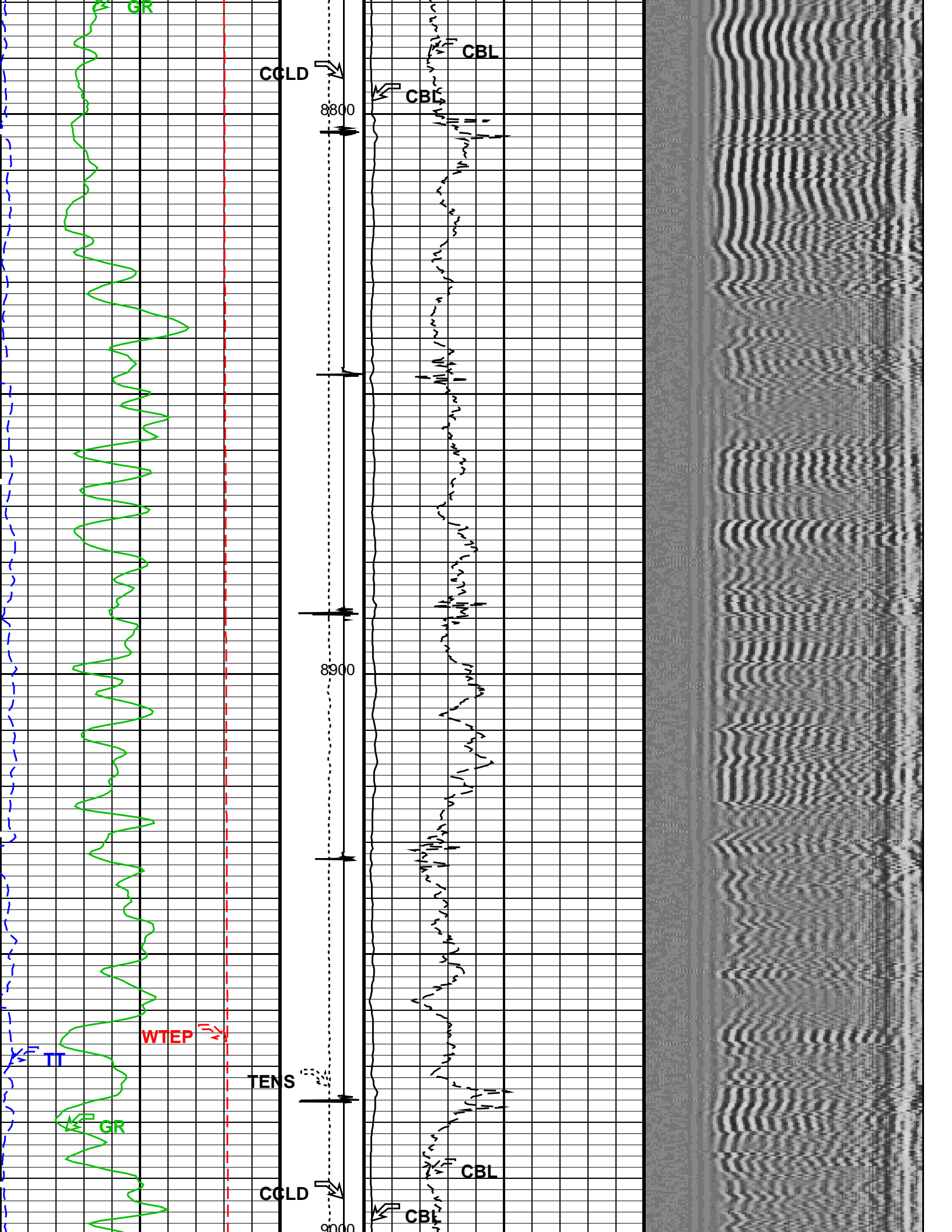


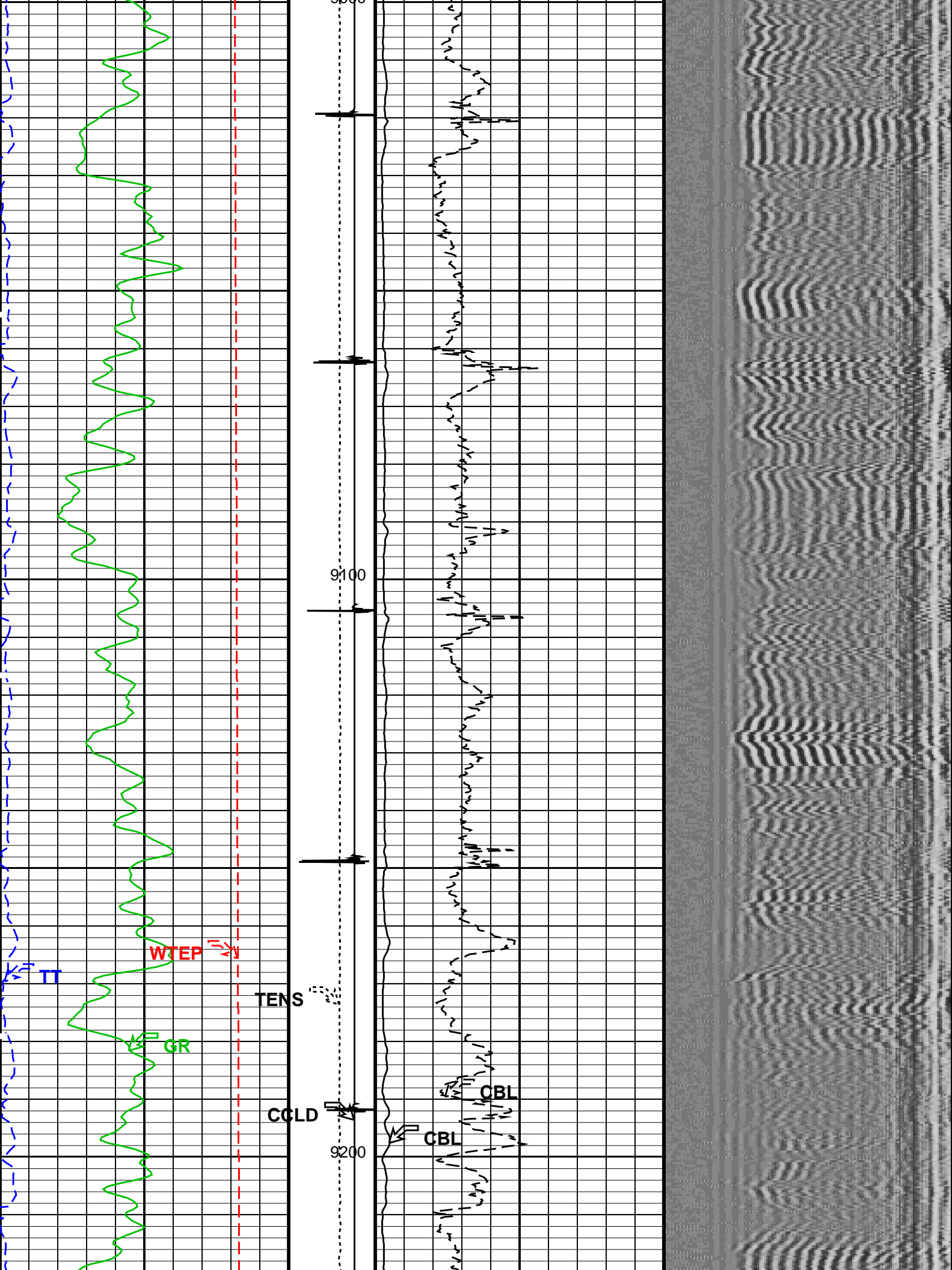


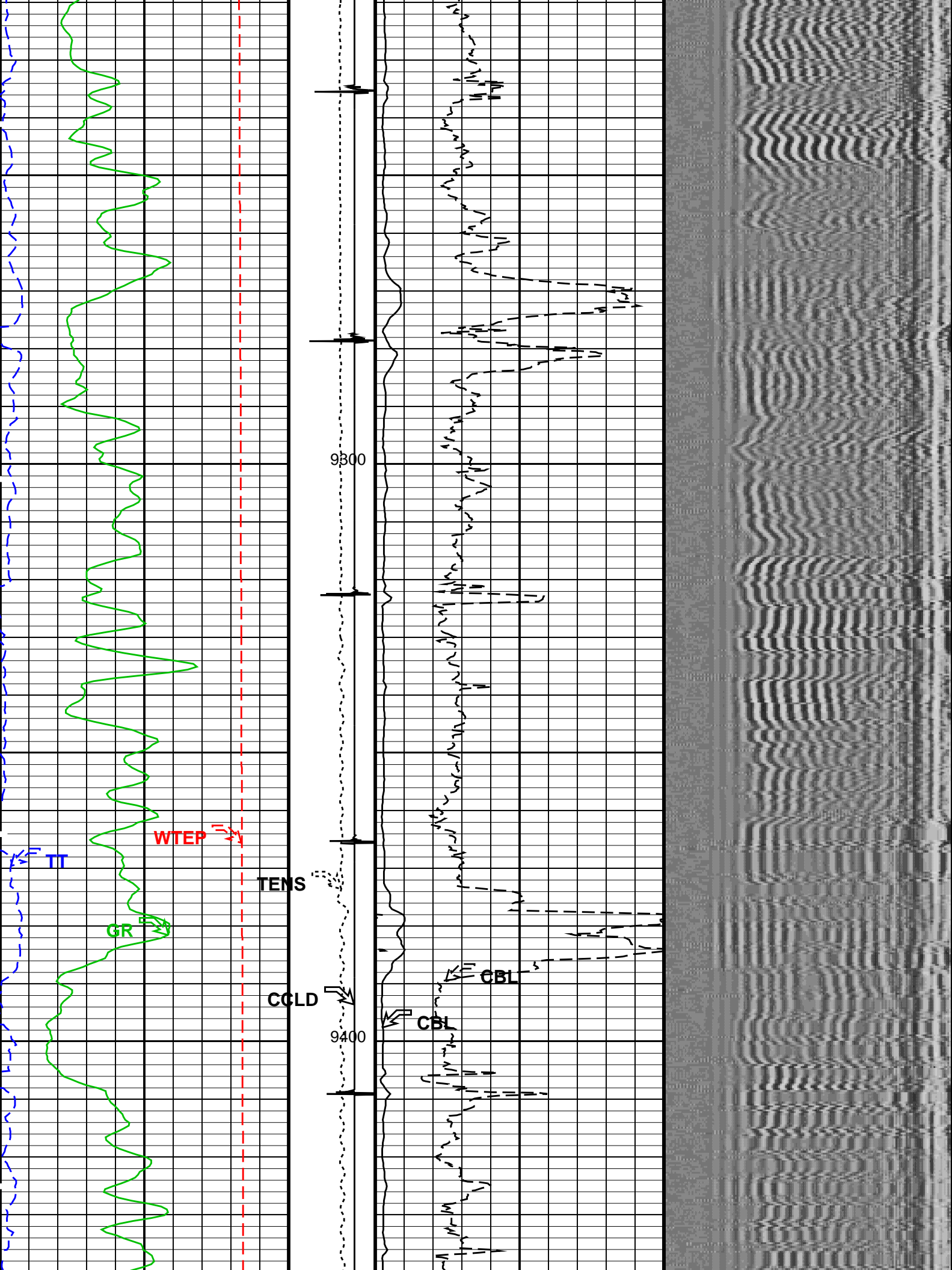


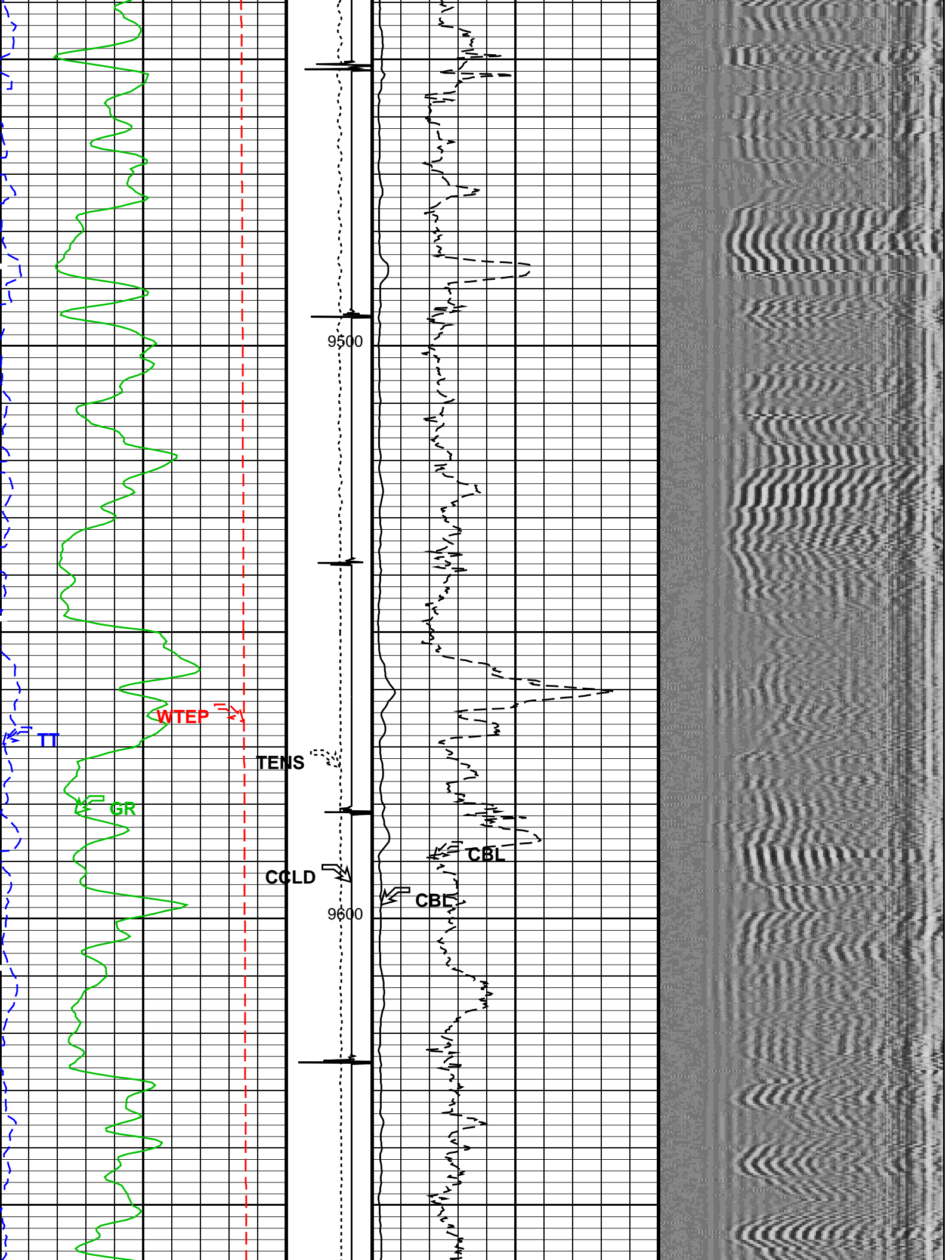


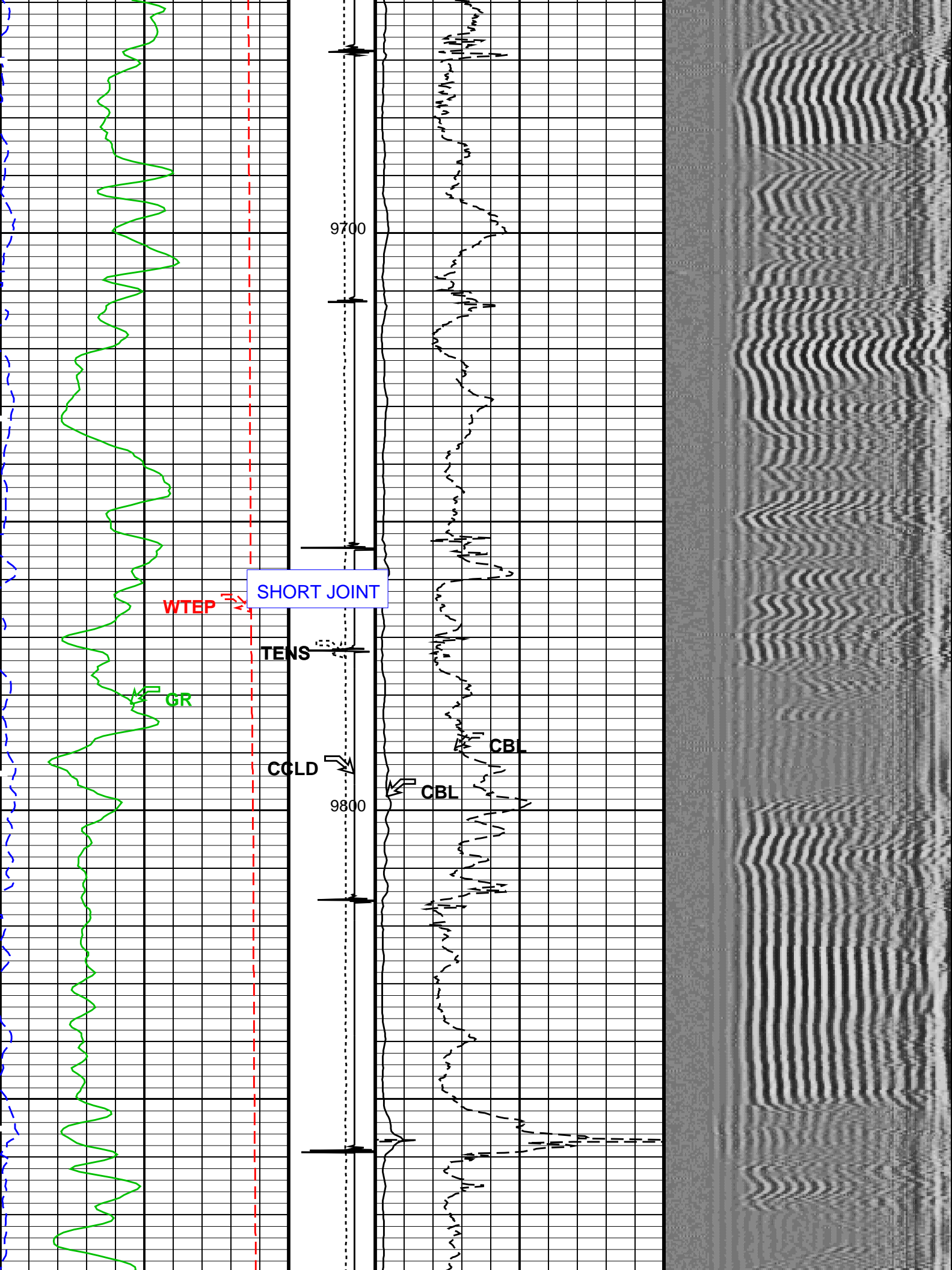


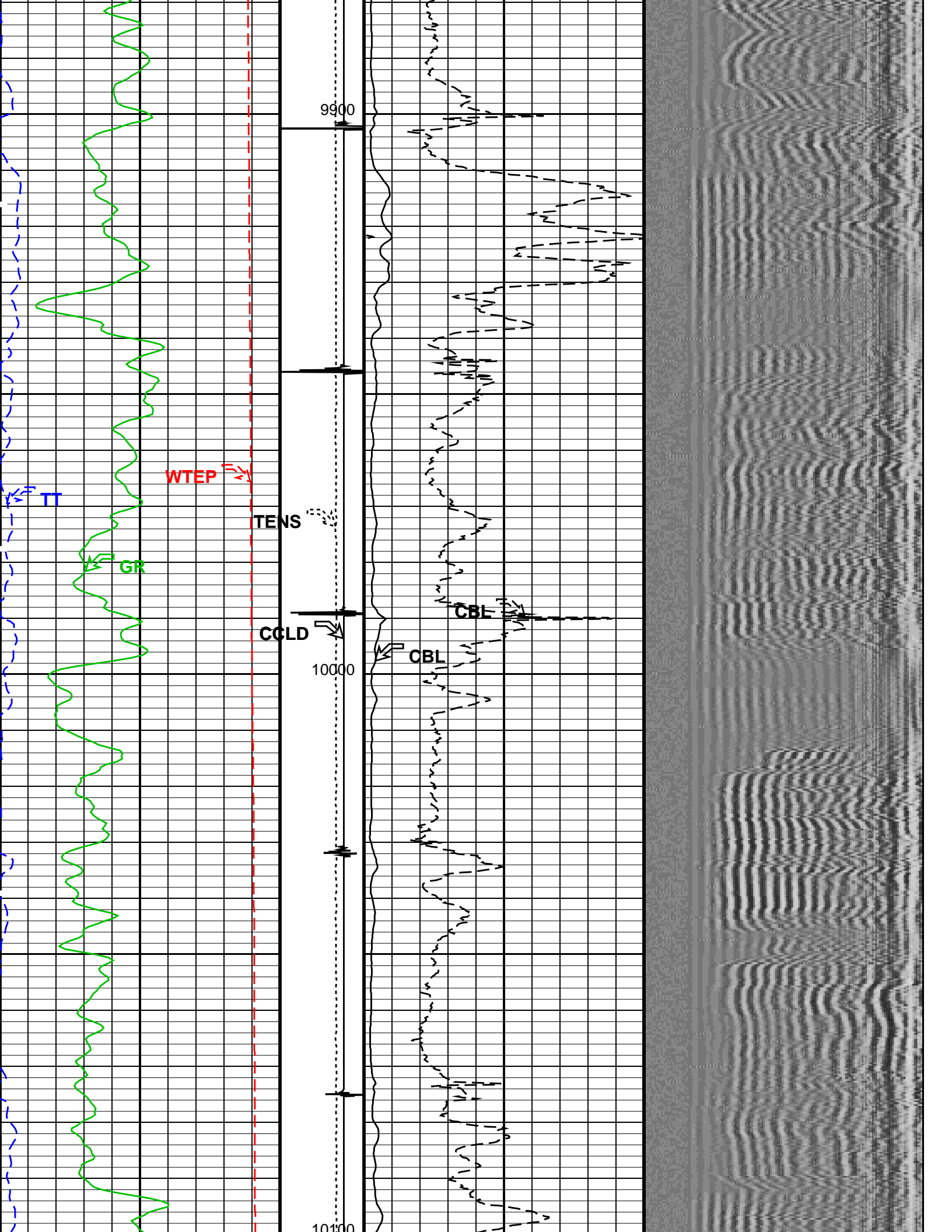


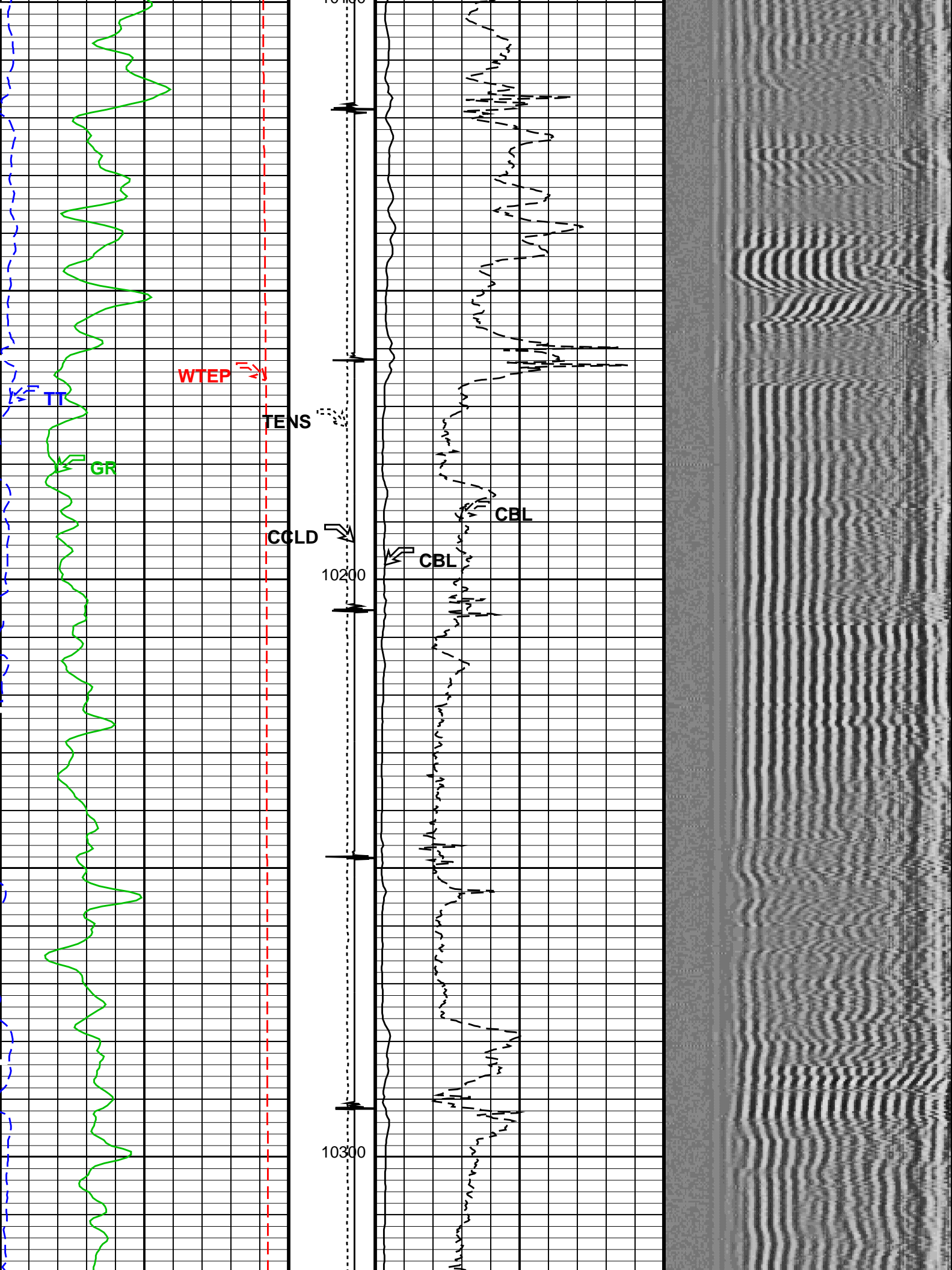


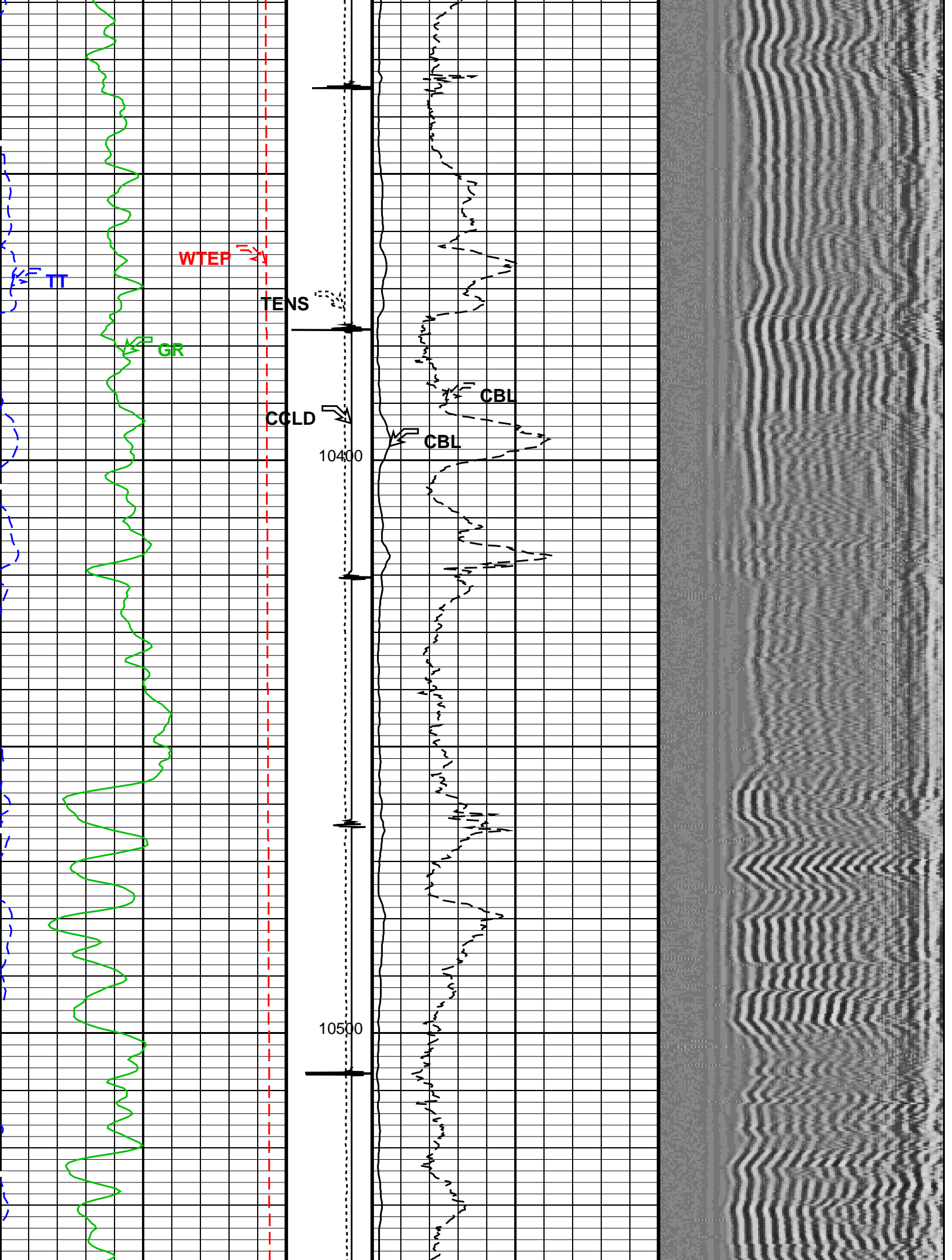


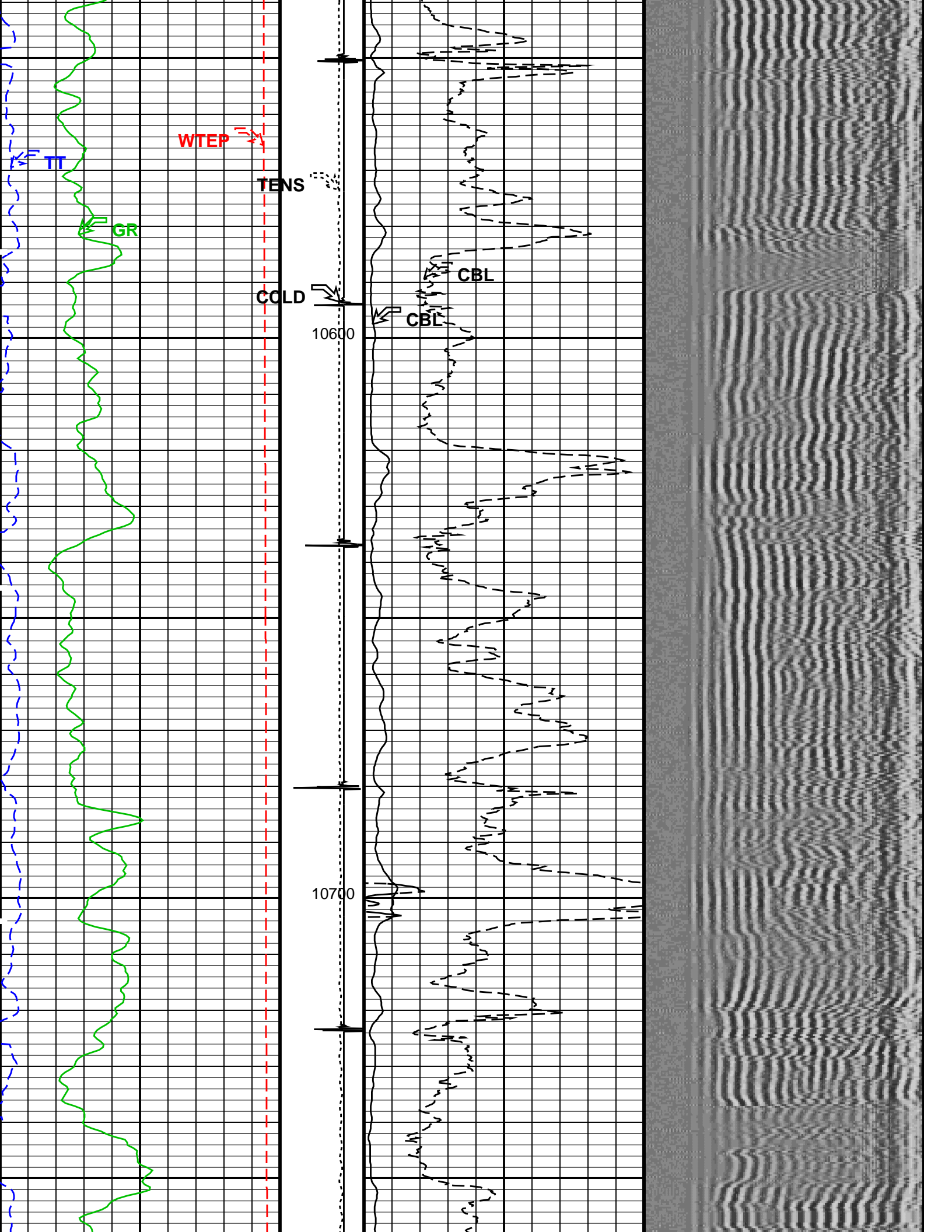


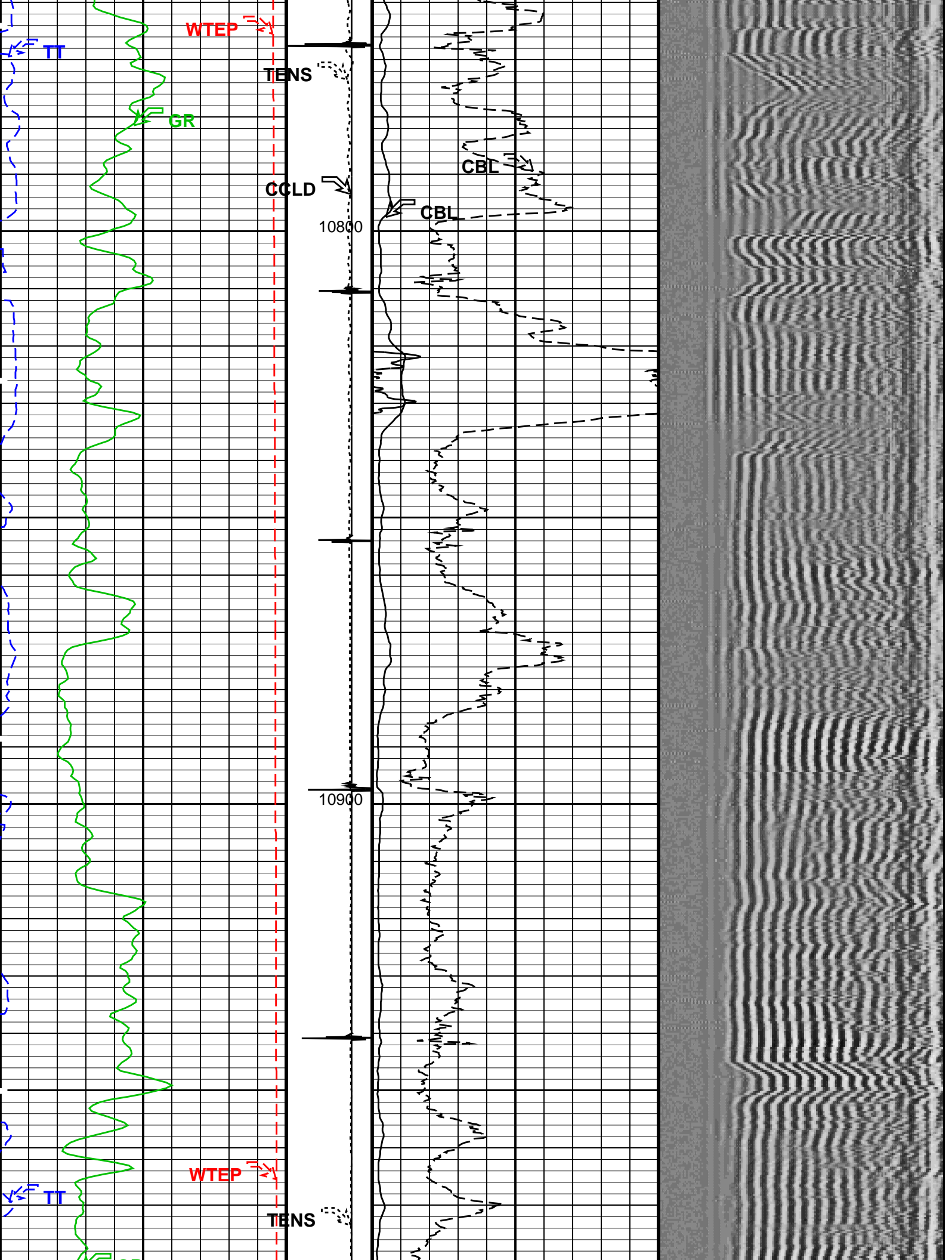


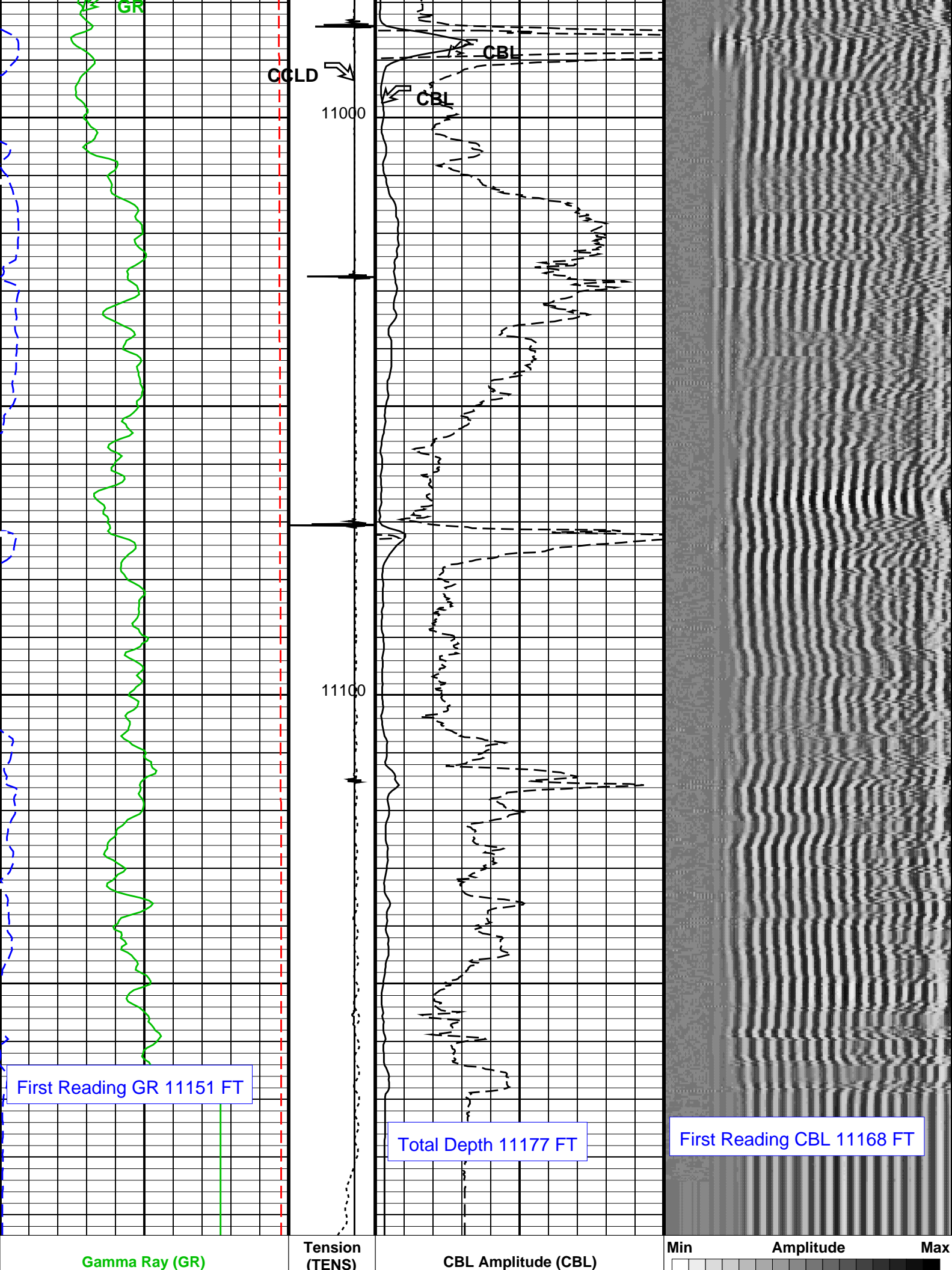


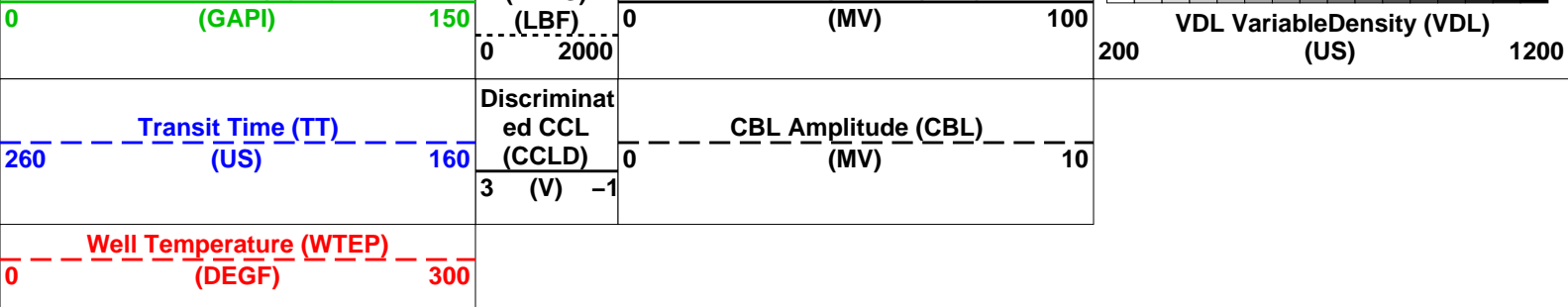












PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100' Graphics File Created: 15-Aug-2012 16:01

OP System Version: 19C0-187

SCMT-CB SRPC-5095-H2-2011-OP19 HBMS-B 19C0-187

<<<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)	1.0
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	
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 Peak Detection T0_Delay and Noise Gate	167.559	US

MAP1	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	11177	FT

Input DLIS Files

DEFAULT	SCMT_HBMS_028LUP	FN:27	PRODUCER	15-Aug-2012 12:32	11189.5 FT	14.0 FT
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Output DLIS Files

DEFAULT	SCMT_HBMS_029PUP	FN:28	PRODUCER	15-Aug-2012 16:01
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Schlumberger

REPEAT PASS CBL – VDL

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC.

Well: NP EF09E-27 (P27 595)

Input DLIS Files

DEFAULT	SCMT_HBMS_021LUP	FN:20	PRODUCER	15-Aug-2012 12:07	6267.5 FT	5739.5 FT
DEFAULT	SCMT_HBMS_029PUP	FN:28	PRODUCER	15-Aug-2012 16:01	11193.5 FT	-13.5 FT

Output DLIS Files

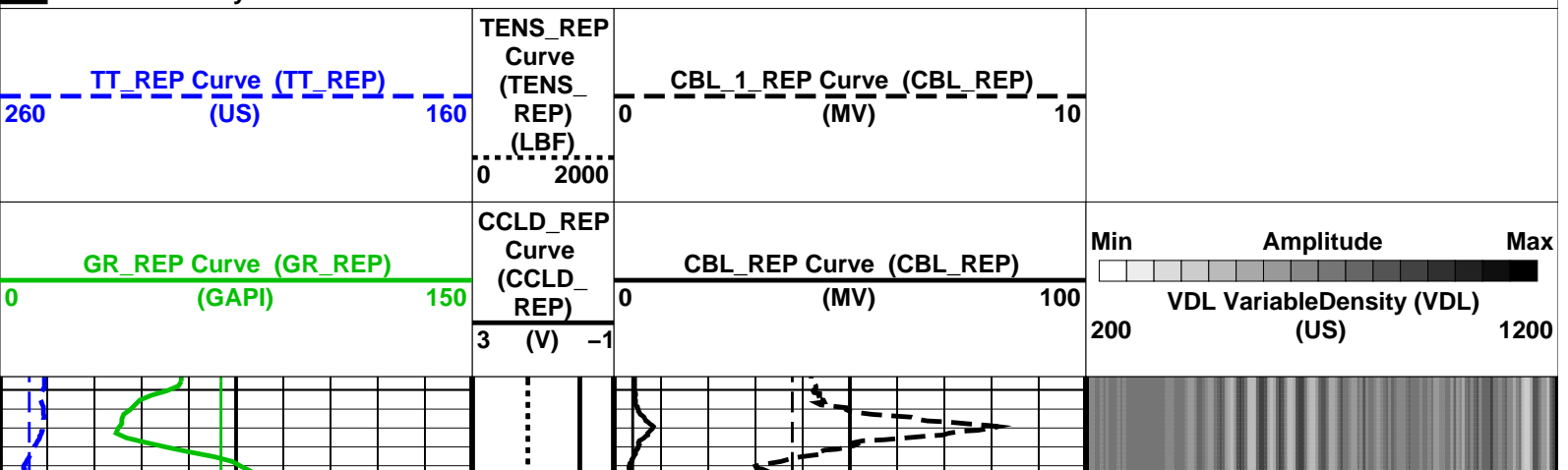
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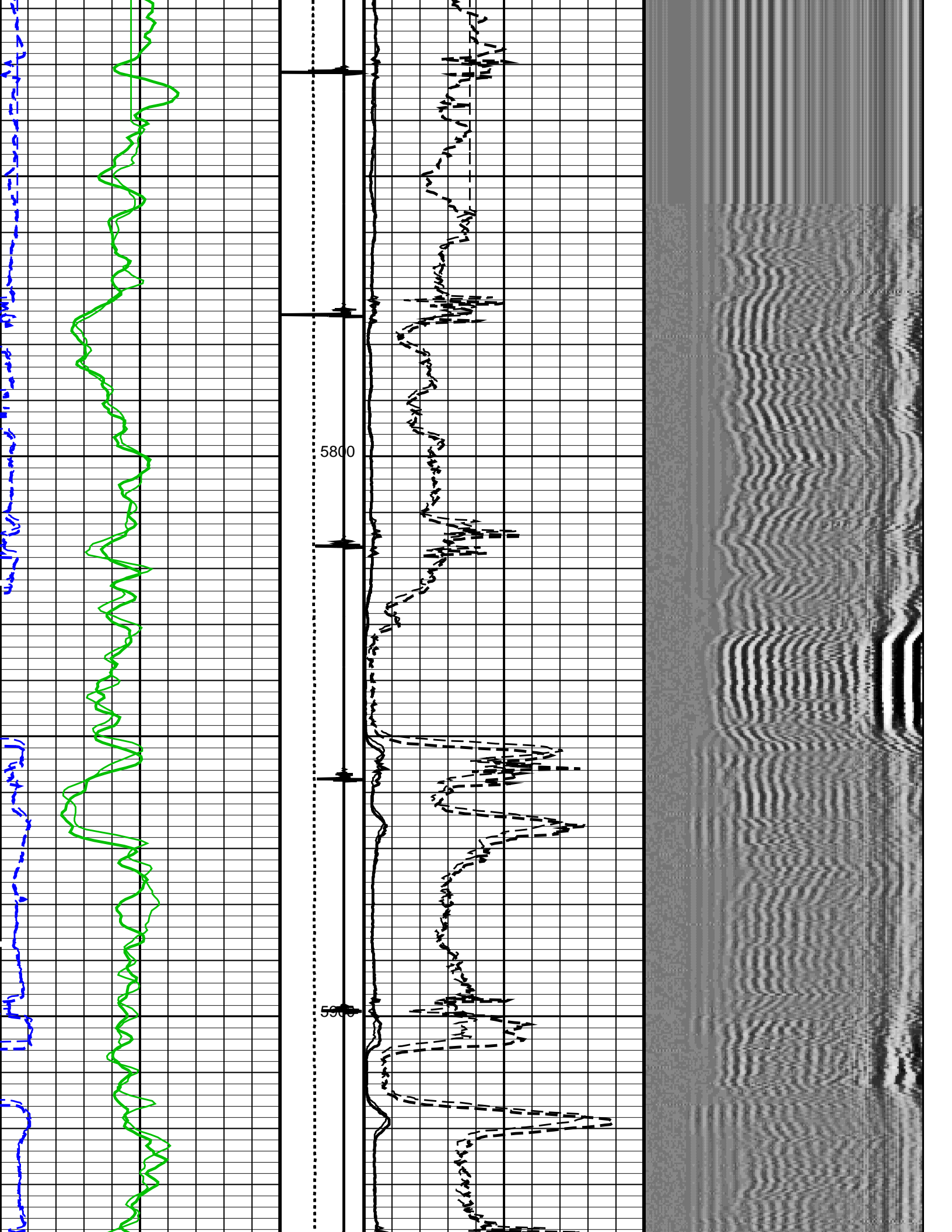
OP System Version: 19C0-187

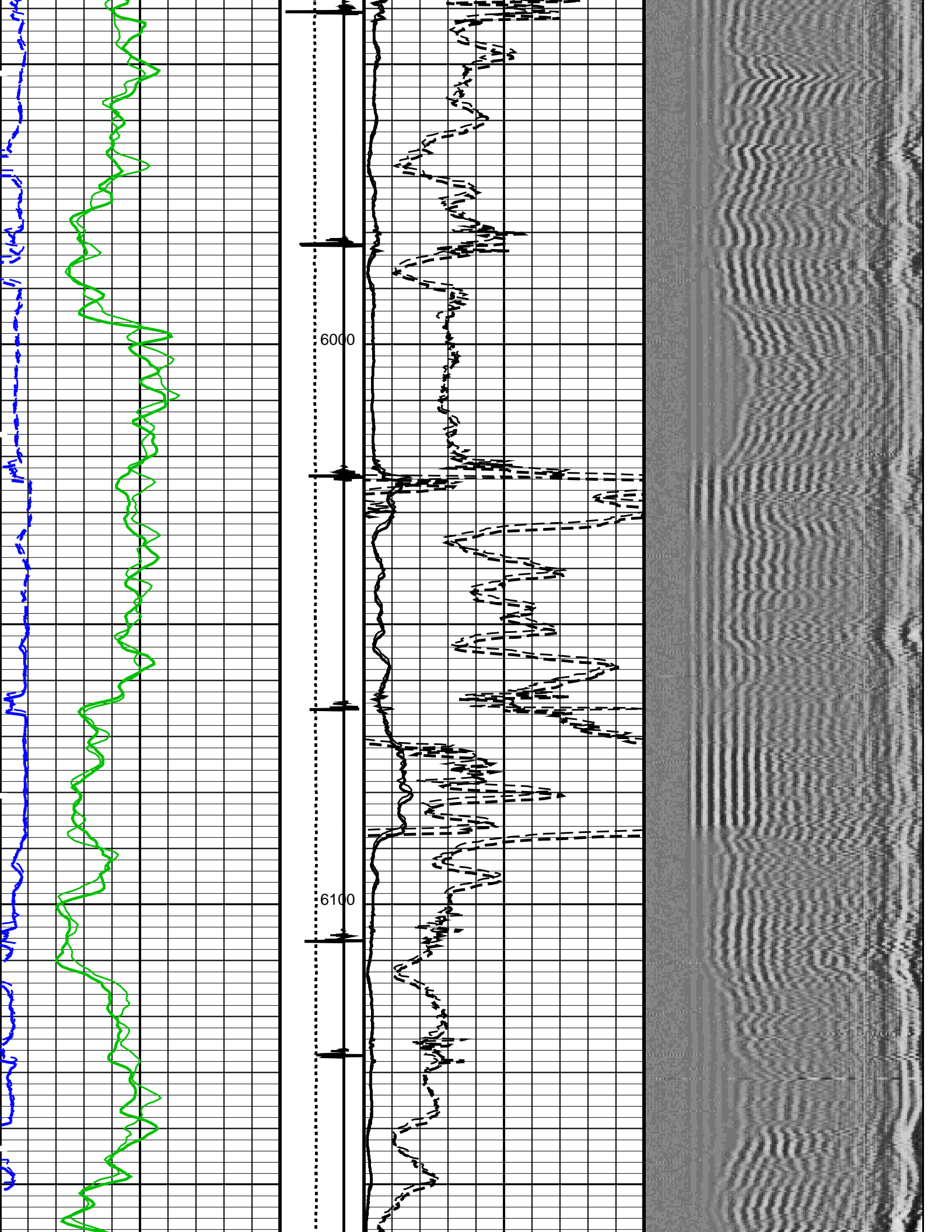
SCMT-CB	SRPC-5095-H2-2011-OP19	HBMS-B	19C0-187
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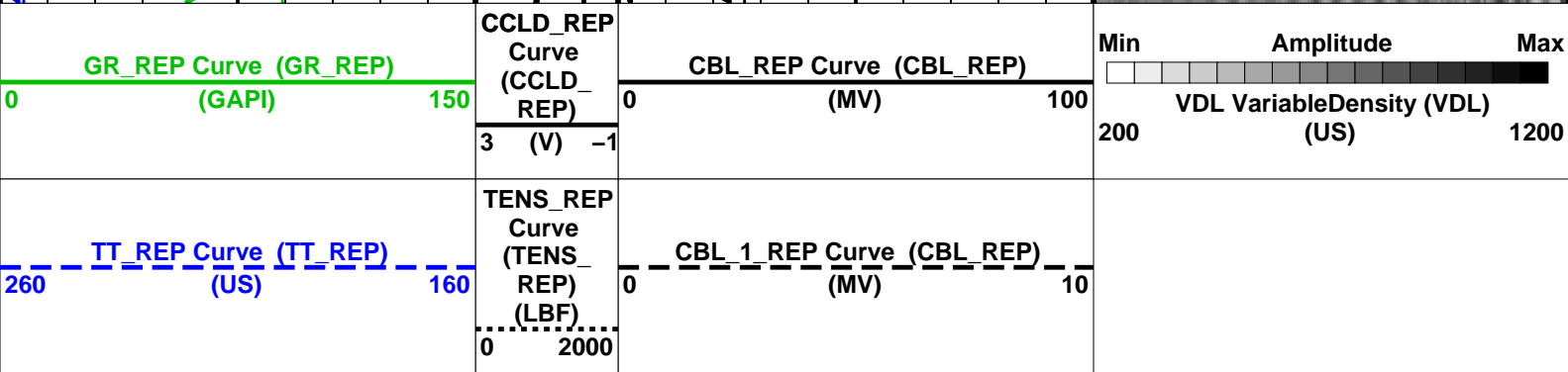
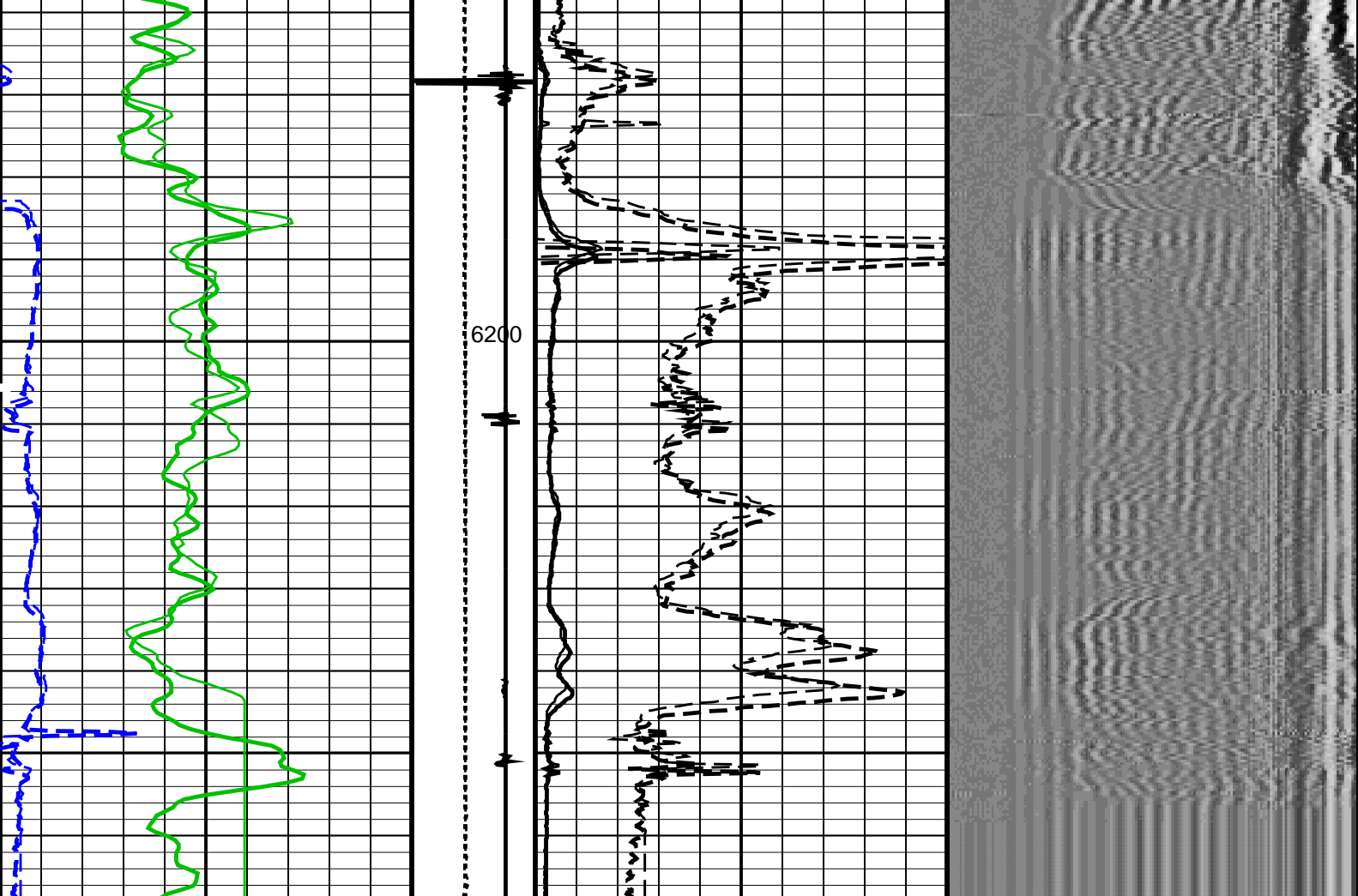
PIP SUMMARY

Time Mark Every 60 S









PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL_REP Vertical Scale: 5" per 100'

Graphics File Created: 15-Aug-2012 16:10

OP System Version: 19C0-187

SCMT-CB SRPC-5095-H2-2011-OP19 HBMS-B 19C0-187

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number SCMS-CB 8179

Current Casing Size 4.5000 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)	1.0
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
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	0.0 FT
DORL	Depth Offset for Repeat Analysis	0.0 FT
PP	Playback Processing	RECOMPUTE
TD	Total Depth	11177 FT

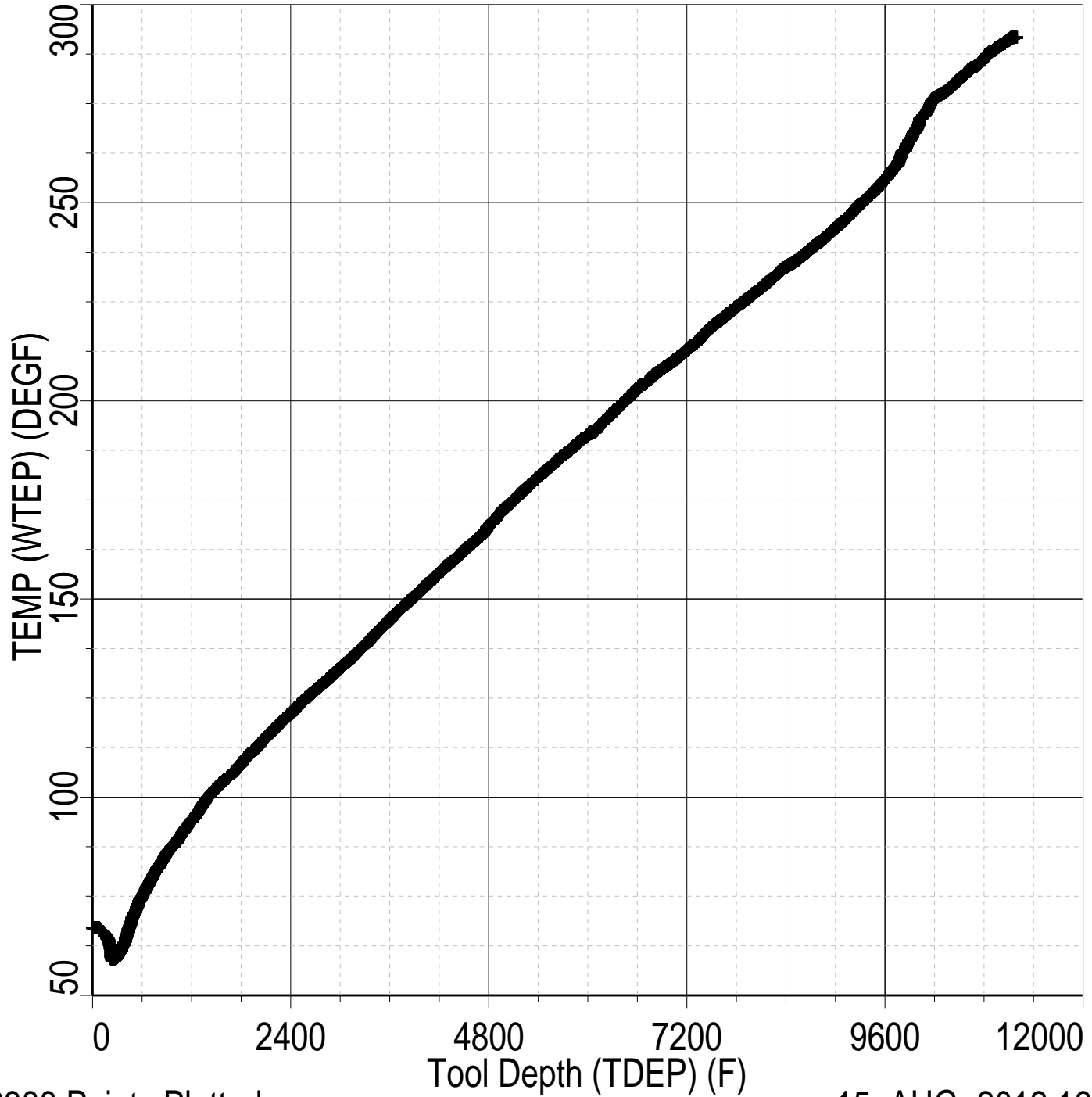
Input DLIS Files

DEFAULT	SCMT_HBMS_021LUP	FN:20	PRODUCER	15-Aug-2012 12:07	6267.5 FT	5739.5 FT
DEFAULT	SCMT_HBMS_029PUP	FN:28	PRODUCER	15-Aug-2012 16:01	11193.5 FT	-13.5 FT

Output DLIS Files

DEFAULT	SCMT_HBMS_030PUP	FN:29	PRODUCER	15-Aug-2012 16:10
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Index: 11193.5 – -13.5 FT



22388 Points Plotted

15-AUG-2012 16:08

Schlumberger**PBMS COEFFICIENTS**

Client:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

GR

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

Client:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR RTD THERMOMETER PBMS–B.2880 S/N:

2880

260408

16

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:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

CQG

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

Calib Date ddmmyy

:

2880

260408

Calib Date ddmmyy 260408
Matrix Size 66
Coeff CRC 3690

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+1.114978632240E+03	-.318843725686E-03	+651766172344E-08
Fb**1	-.590205352250E-02	+1.168686572404E-07	+1.162345150354E-12
Fb**2	-.362996279263E-07	+4.07654559315E-12	+4.52411391342E-17
Fb**3	-.276281361281E-12	+8.71817059405E-17	0.0
Fb**4	0.0	0.0	0.0
Fb**5	0.0	0.0	0.0

	Fc**3	Fc**4	Fc**5
Fb**0	+1.199118144093E-13	-.260997933236E-18	+618908211390E-21
Fb**1	+2.250084591851E-17	+4.55070709200E-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	+3.10736316923E+05	+2.73670214709E-02	+7.31815197856E-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

Schlumberger

SCMT MASTER CALIBRATION







MAXIS Field Log




Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Slim Cement Mapping Tool, 1–11/16 OD Master Calibration – SCMT CBL and MAP Amplitude Normalization in SFT–155/–255							
Master: 6–Mar–2012 15:06							
MAP 1 Amplitude Plus	1075	1208	--	--	--	--	MV
MAP 2 Amplitude Plus	1075	1275	--	--	--	--	MV
MAP 3 Amplitude Plus	1075	1182	--	--	--	--	MV
MAP 4 Amplitude Plus	1075	1049	--	--	--	--	MV
MAP 5 Amplitude Plus	1075	937.6	--	--	--	--	MV
MAP 6 Amplitude Plus	1075	990.2	--	--	--	--	MV
MAP 7 Amplitude Plus	1075	1063	--	--	--	--	MV
MAP 8 Amplitude Plus	1075	1166	--	--	--	--	MV
CBL Amplitude Plus	1350	1363	--	--	--	--	MV

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	8179	
Slim Cement Mapping Cartridge	SCMC – CA	8172	
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		1208	Master		1275
	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		1182	Master		1049
	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		937.6	Master		990.2
	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

Phase	MAP 7 Amplitude Plus MV		Value	Phase	MAP 8 Amplitude Plus MV		Value
Master			1063	Master			1166
	500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)		500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)
Phase	CBL Amplitude Plus MV		Value				
Master			1363				
	1000 (Minimum)	1350 (Nominal)	1700 (Maximum)				
Master: 6-Mar-2012 15:06							

Company:

ENCANA OIL & GAS (USA) INC.

Well:

NP EF09E-27 (P27 595)

Field:

NORTH PARACHUTE

County:

GARFIELD

State:

COLORADO

Schlumberger

SLIM CEMENT MAPPING TOOL

CBL-VDL

GR-CCL