

Company: **ANTERO RESOURCES CORP.**

Well: **NORCROSS A-11**

Field: **MAMM CREEK**

County: **GARFIELD** State: **COLORADO**

**CEMENT BOND LOG
TEMPERATURE LOG
GAMMA RAY - CCL**

County:	GARFIELD		
Field:	MAMM CREEK		
Location:	SHL: 1364' FSL & 1404' FWL		
Well:	NORCROSS A-11		
Company:	ANTERO RESOURCES CORP.		
LOCATION	SHL: 1364' FSL & 1404' FWL		
	Perm arent Datum:	GROUND LEVEL	
	Log Measured From:	KELLY BUSHING	
	Drilling Measured From:	KELLY BUSHING	
	Elev.:	K.B.	5513.00 ft
		G.L	5496.00 ft
		D.F.	5512.00 ft
	Elev.:	5496.00 ft	
	Log Measured From:	KELLY BUSHING	
	Drilling Measured From:	KELLY BUSHING	
	API Serial No.	Section	Township
	05-045-15171-0000	13	6S
			Range
			93W

Logging Date	17-Mar-2008		
Run Number	1		
Depth Driller	8829 ft		
Schlumberger Depth	8729 ft		
Bottom Log Interval	8721 ft		
Top Log Interval	200 ft		
Casing Fluid Type	WATER		
Salinity			
Density	8.35 lbm/gal		
Fluid Level	17 ft		
BIT/CASING/TUBING STRING			
Bit Size	7.875 in		
From	17 ft		
To	8829 ft		
Casing/Tubing Size	5.500 in		
Weight	17 lbm/ft		
Grade			
From	17 ft		
To	8829 ft		
Maximum Recorded Temperatures	221 degF		
Logger On Bottom	Time		10:00
Unit Number	Location		
Recorded By	M. SEPTON / M. RAGAN		
Witnessed By	JOE CANADY		

PVT DATA			
Oil Density	Run 1	Run 2	Run
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			
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: 17-MAR-2008 11:14:31

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-C	Type:	1-25P
Serial Number:	5915	Serial Number:	1148	Serial Number:	379
Calibration Date:	24-JULY-2008	Calibration Date:	28-FEB-2008	Length:	9740 FT
Calibrator Serial Number:	1	Calibrator Serial Number:	1159	Conveyance Method: Wireline Rig Type: LAND	
Calibration Cable Type:	1-25P	Calibration Gain:	0.89		
Wheel Correction 1:	-1	Calibration Offset:	201.00		
Wheel Correction 2:	-1				

Depth Control Parameters

Log Sequence: First Log In the Well
Rig Up Length At Surface: 0.00 FT
Rig Up Length At Bottom: 0.00 FT
Rig Up Length Correction: 0.00 FT
Stretch Correction: 4.00 FT
Tool Zero Check At Surface:

Depth Control Remarks

1. SCHLUMBERGER DEPTH CONTROL POLICY DATED FEBRUARY 2008 FOLLOWED
2. IDW USED AS PRIMARY DEPTH CONTROL, Z-CHART USED AS SECONDARY DEPTH CONTROL
- 3.
- 4.
- 5.
- 6.

DISCLAIMER

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

OTHER SERVICES1

OS1: NONE
OS2:
OS3:
OS4:
OS5:

OTHER SERVICES2

OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1

THIS IS THE FIRST RUN IN WELL

LOG CORRELATED TO DOWN LOG

TOOL STRING RAN AS PER TOOL SKETCH

TD TAGGED AT 8729 FT

MAXIMUM TEMPERATURE OF 221 DEG F RECORDED AT TD

REMARKS: RUN NUMBER 2

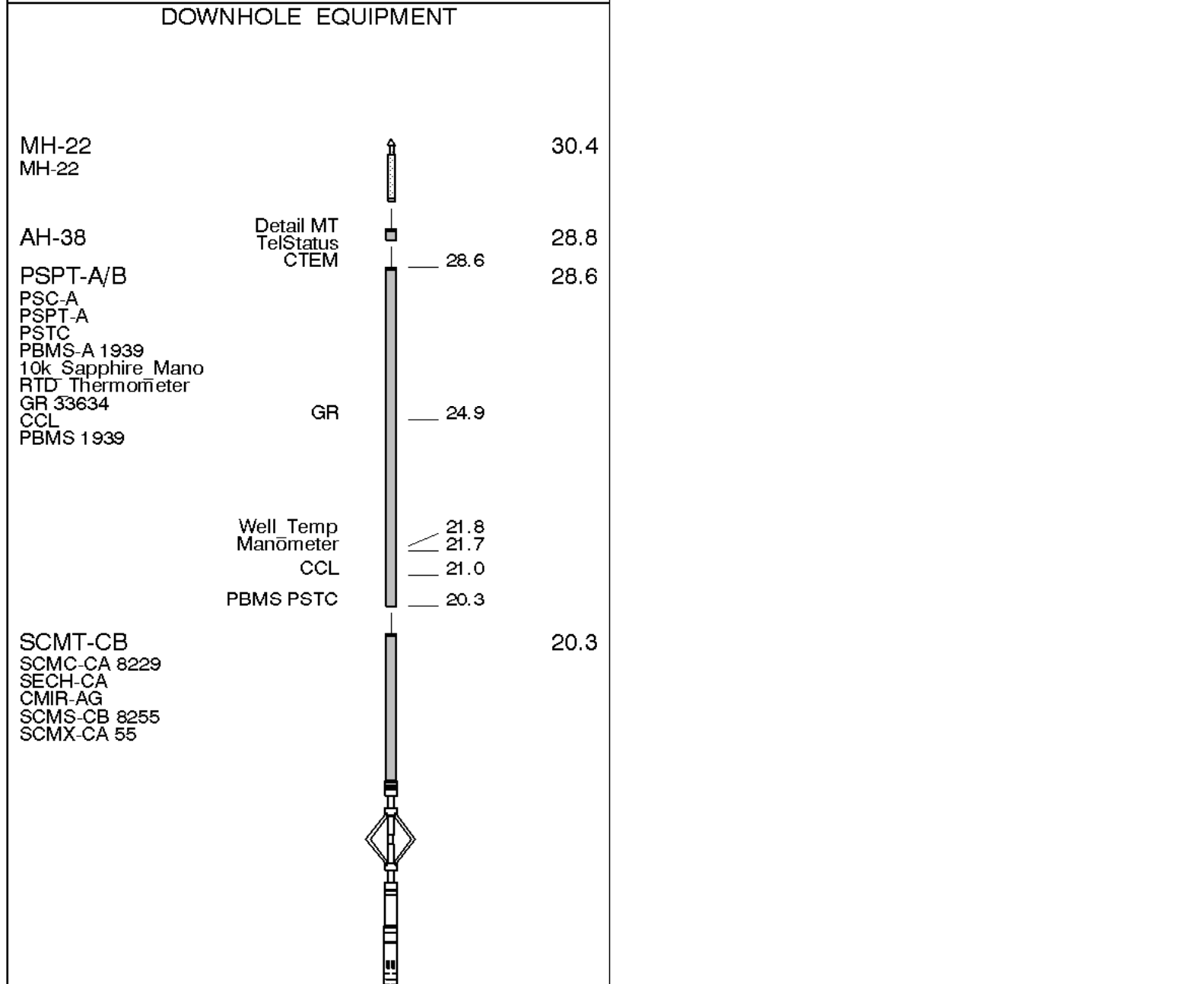
5.5", 17 LB/FT CASING					
AFE: NCROSSA11					
RIG: FRONTIER 14					
THANK YOU FOR CHOOSING SCHLUMBERGER!					
RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
AN29-00020 16C0-147 17 ft					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

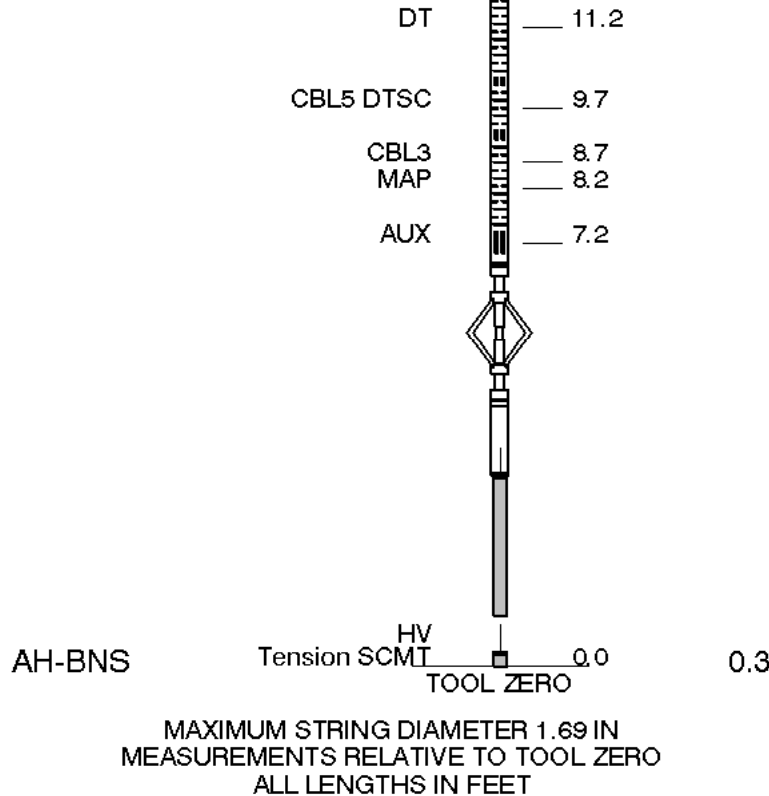
EQUIPMENT DESCRIPTION

RUN 1

RUN 2

SURFACE EQUIPMENT					
WITM-A					
PSC_16MHZ					





Schlumberger

MAIN PASS 0 PSI

MAXIS Field Log

Company: ANTERO RESOURCES CORP.

Well: NORCROSS A-11

Input DLIS Files

DEFAULT SCMT_PSP_013LUP FN:12 PRODUCER 17-Mar-2008 10:00 8741.5 FT 192.0 FT

Output DLIS Files

DEFAULT SCMT_PSP_016PUP FN:15 PRODUCER 17-Mar-2008 12:07 8740.5 FT 191.0 FT

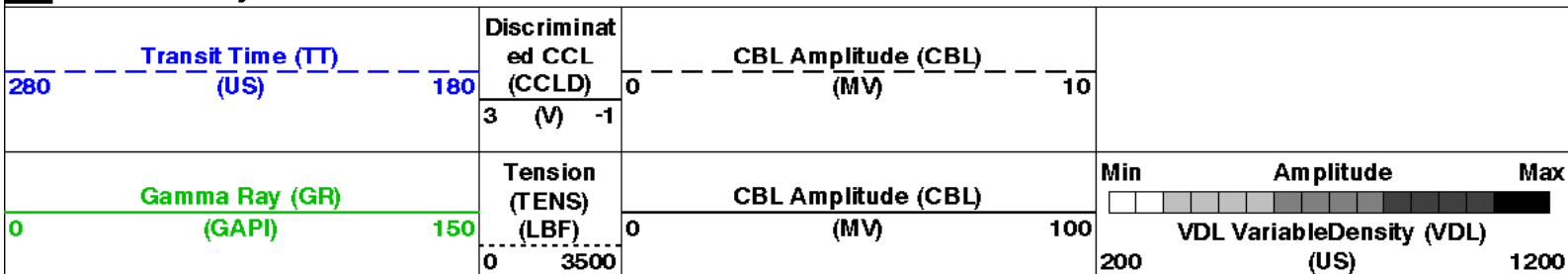
OP System Version: 16C0-147

MCM

SCMT-CB SRPC-3590-MAR_2008_OP16_b PSPT-A/B SRPC-3590-MAR_2008_OP16_b

PIP SUMMARY

Time Mark Every 60 S



MAIN PASS 0 PSI

200

TENS

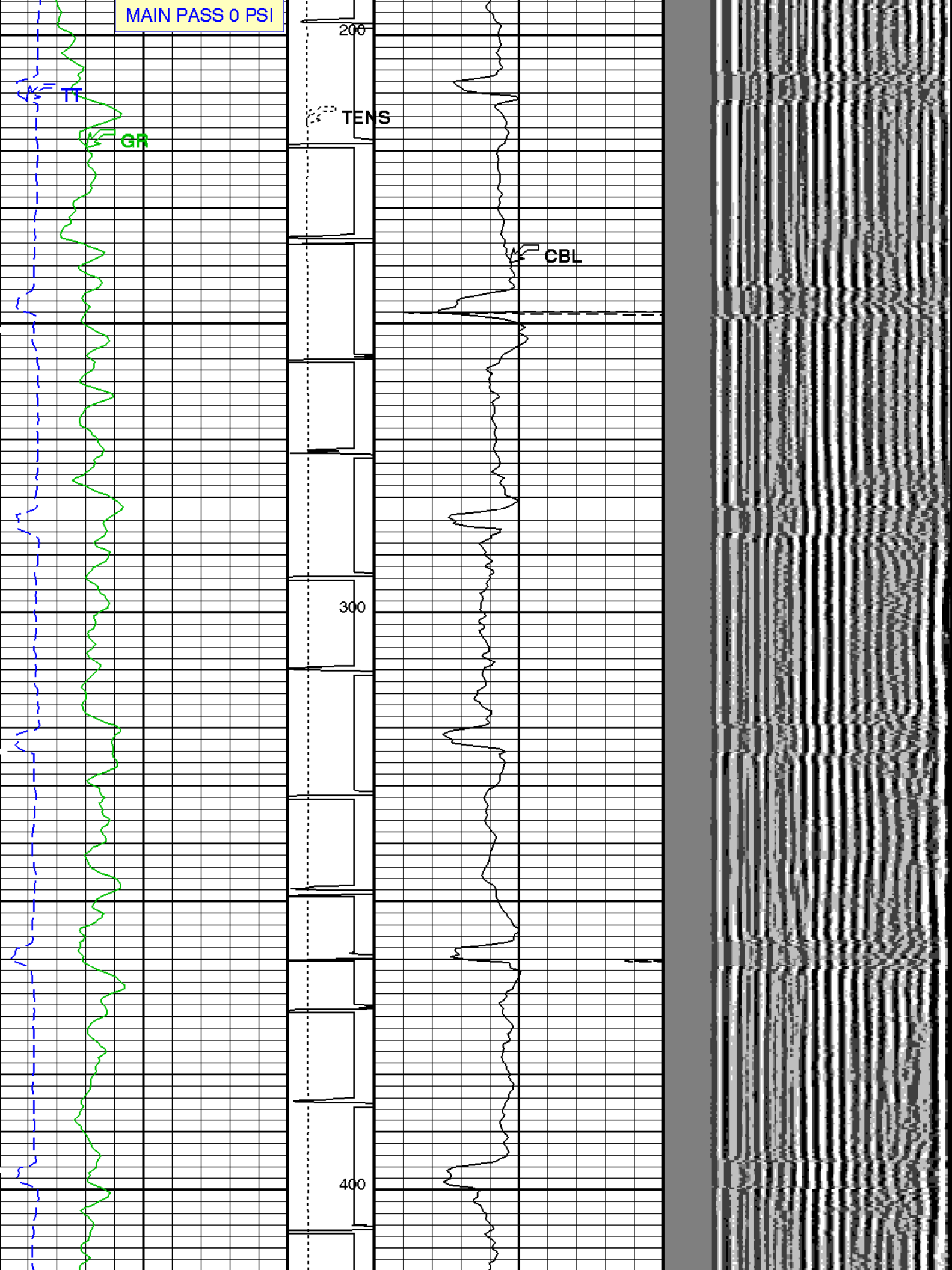
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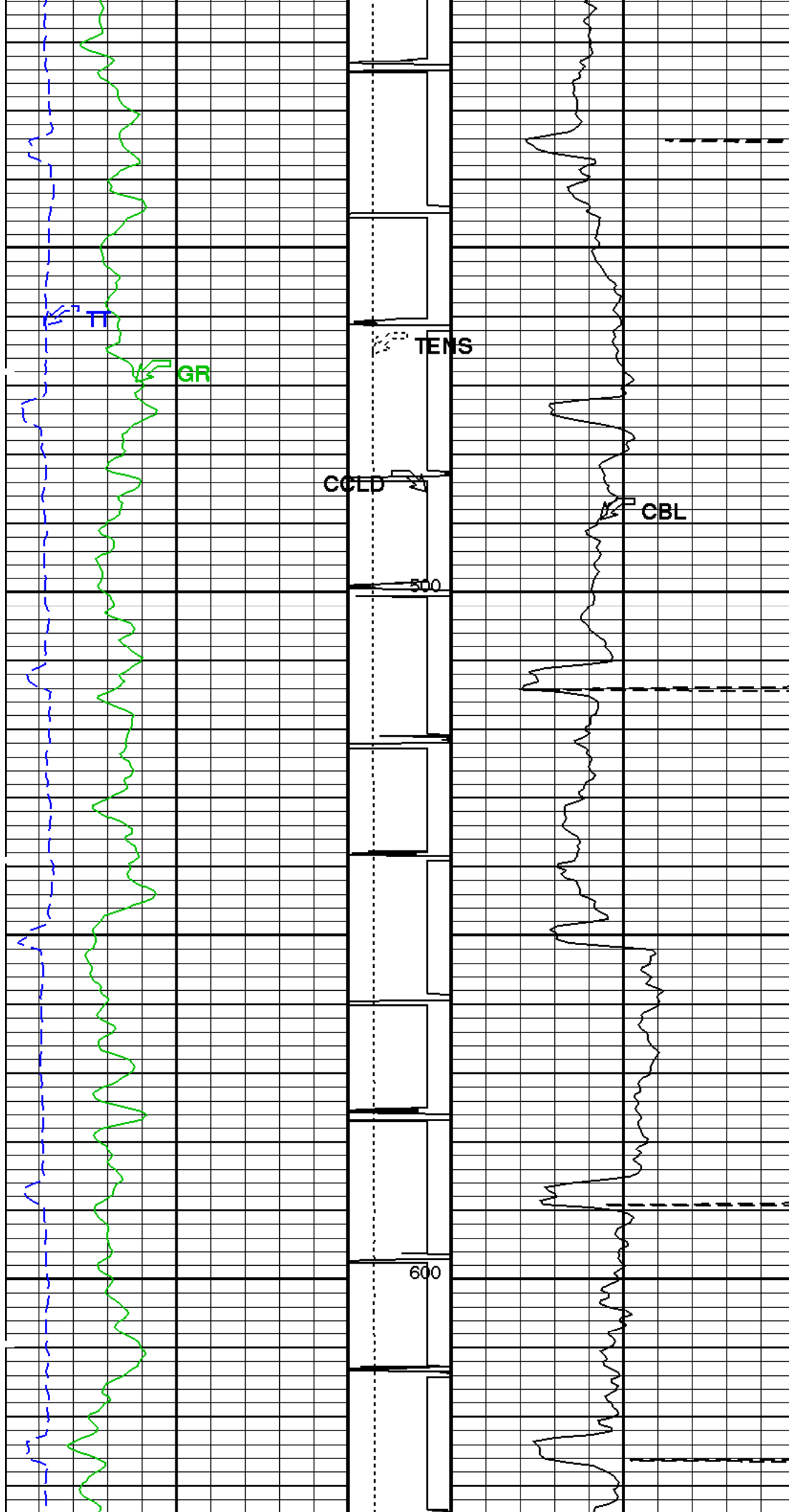
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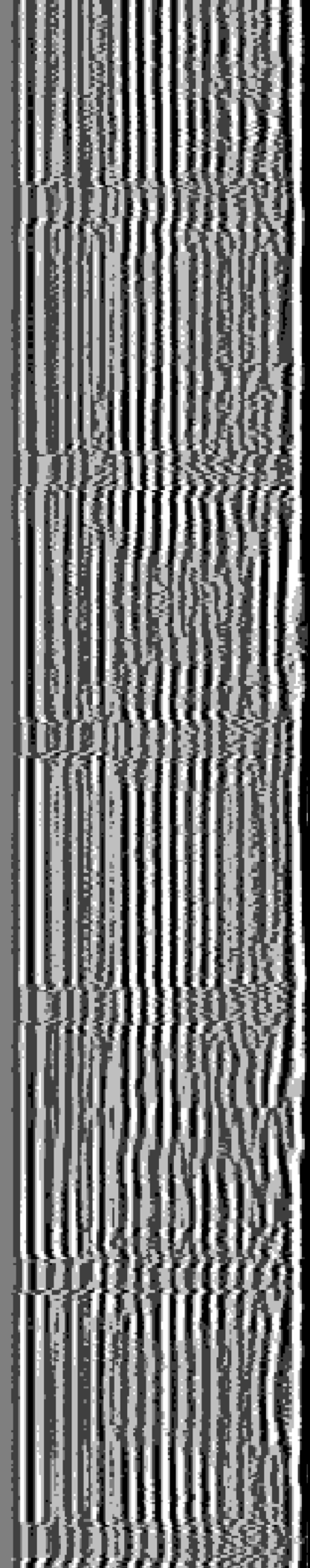
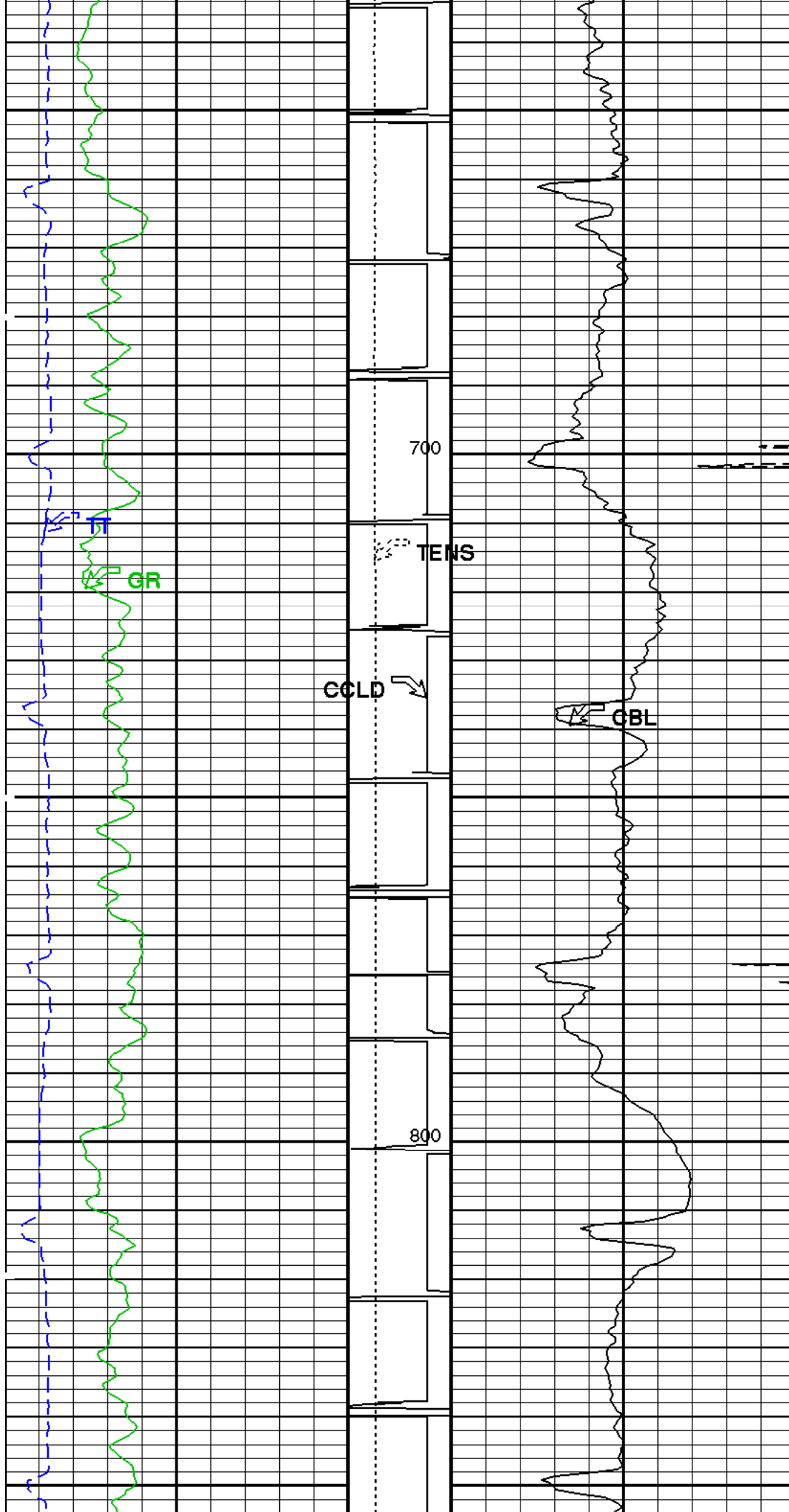
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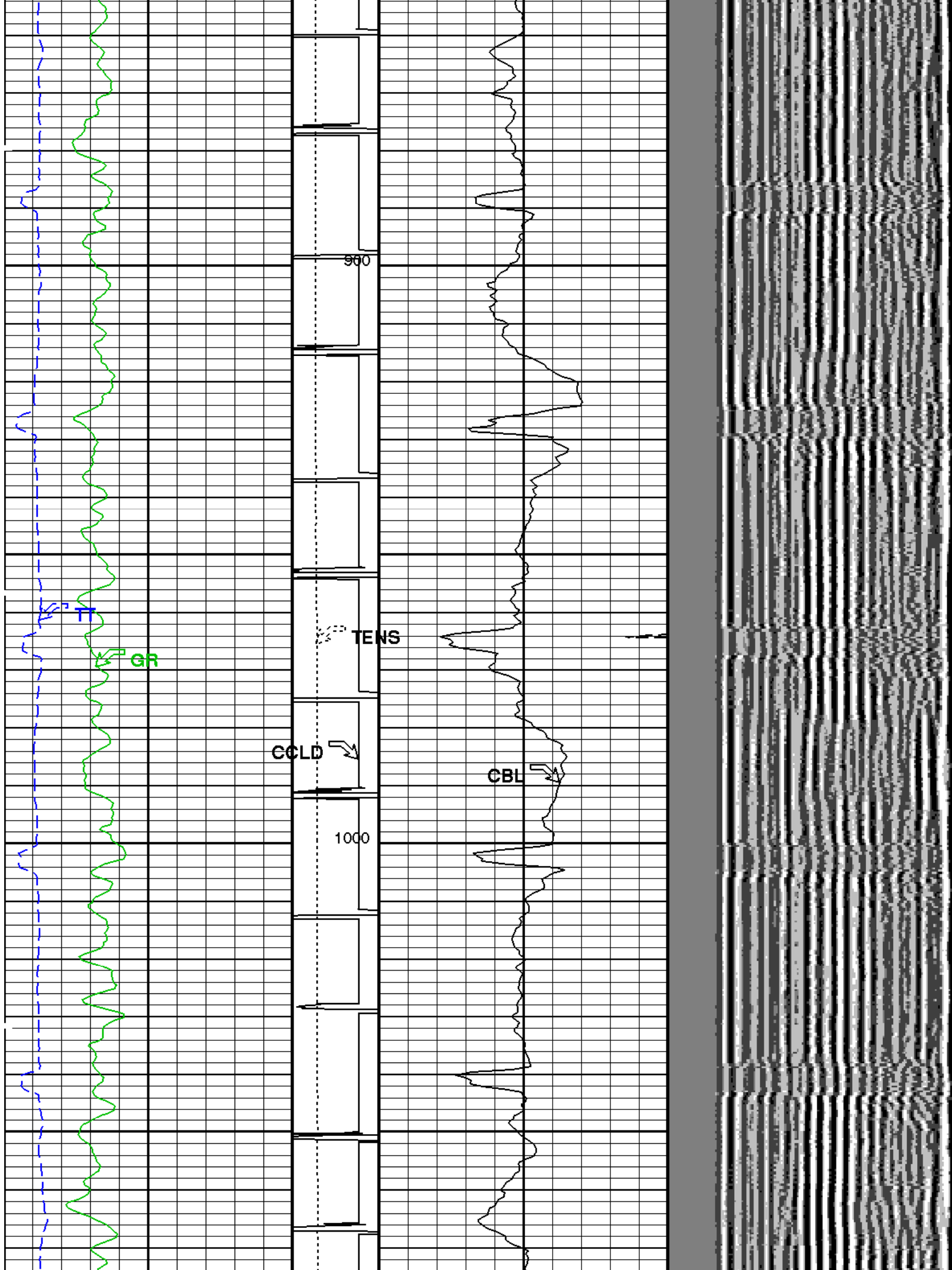
TT

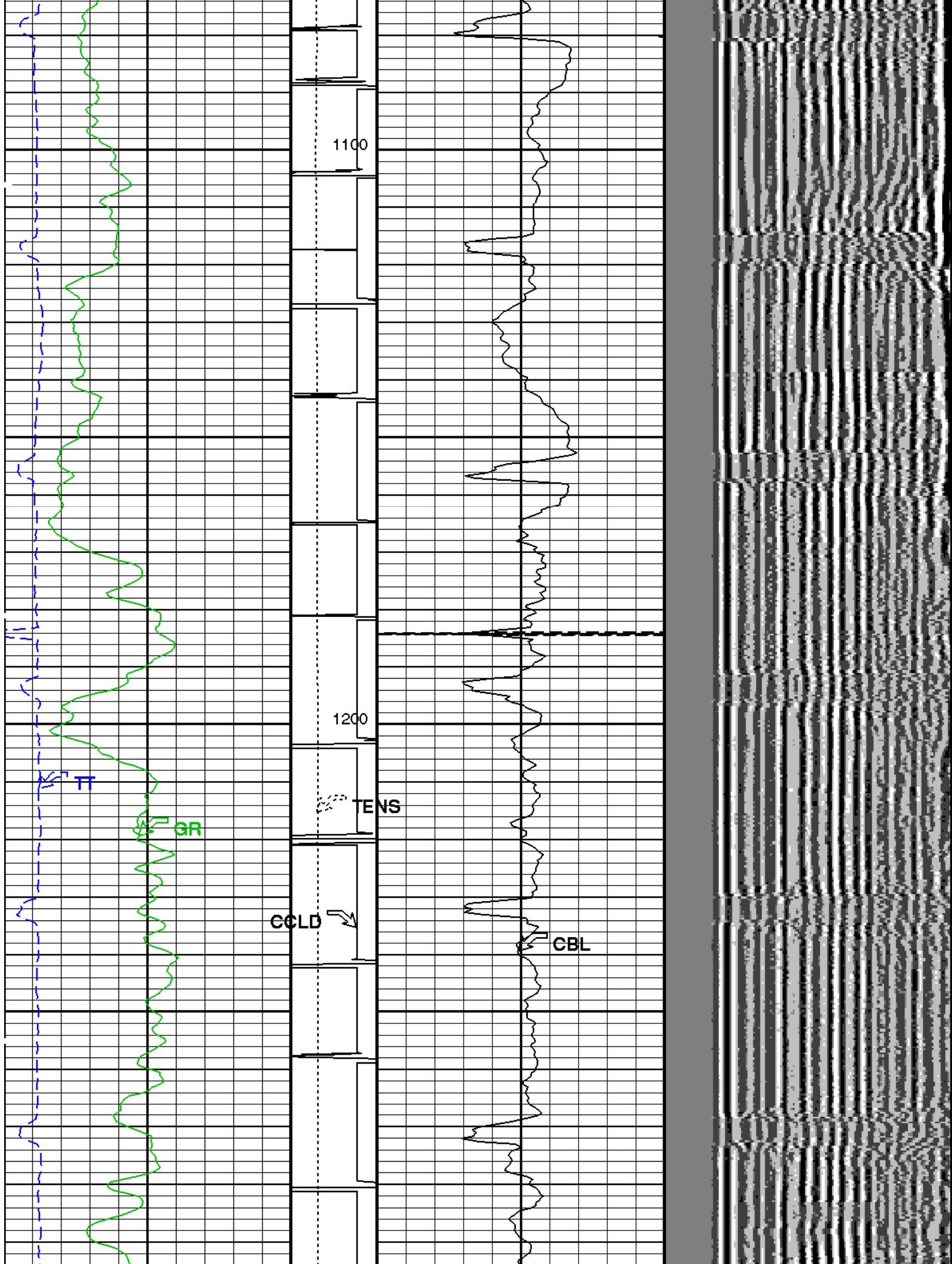
GR

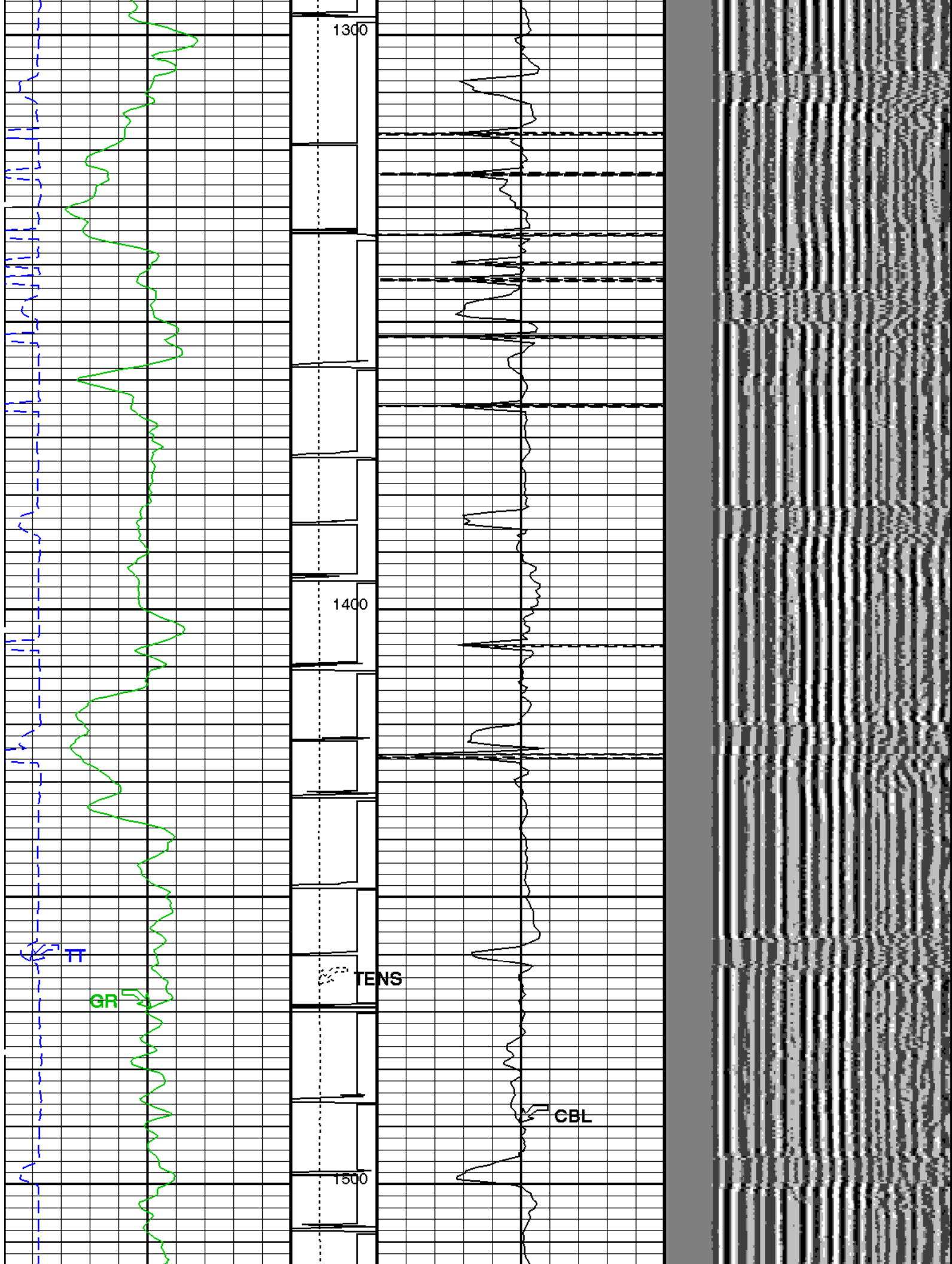


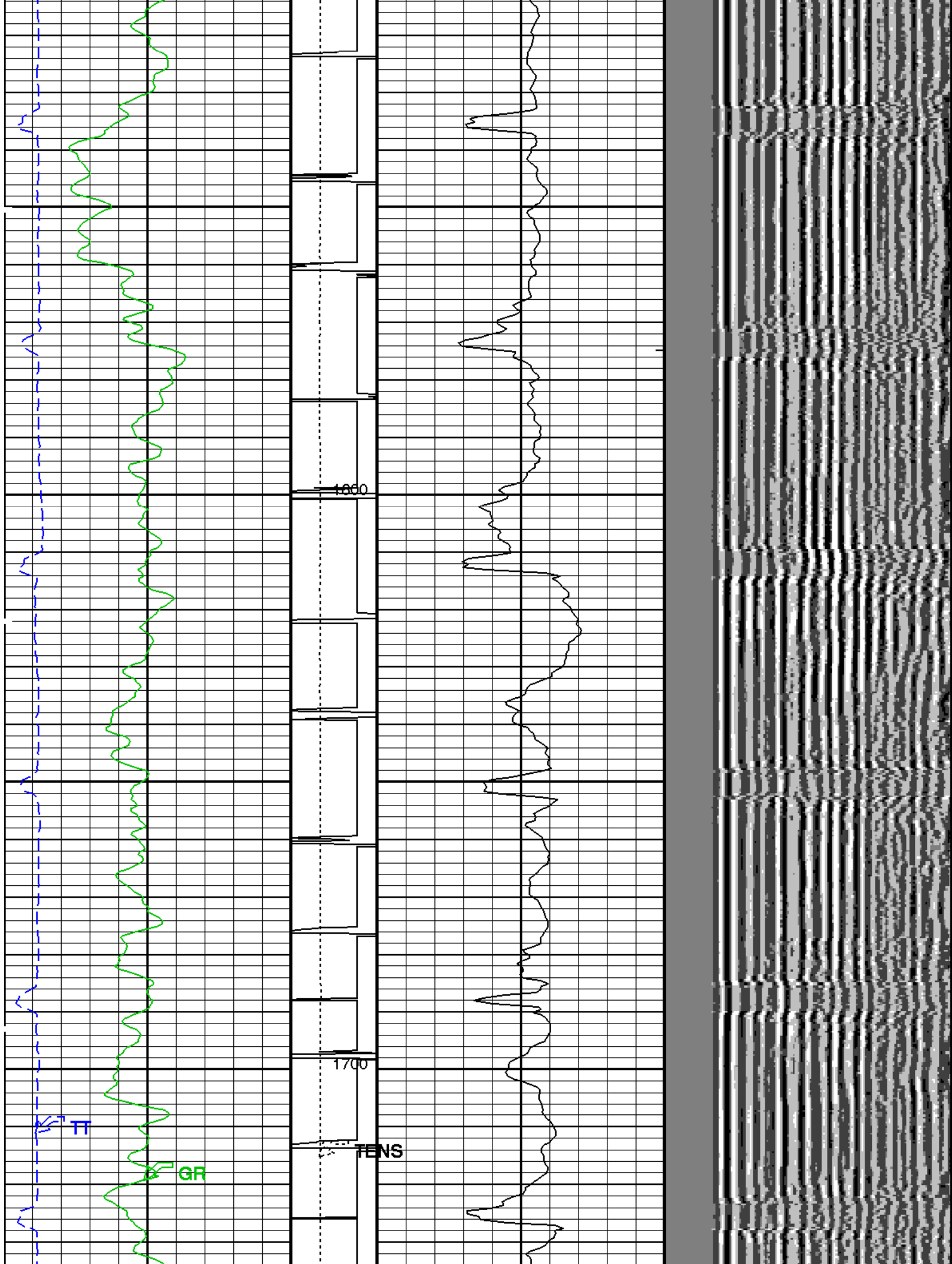


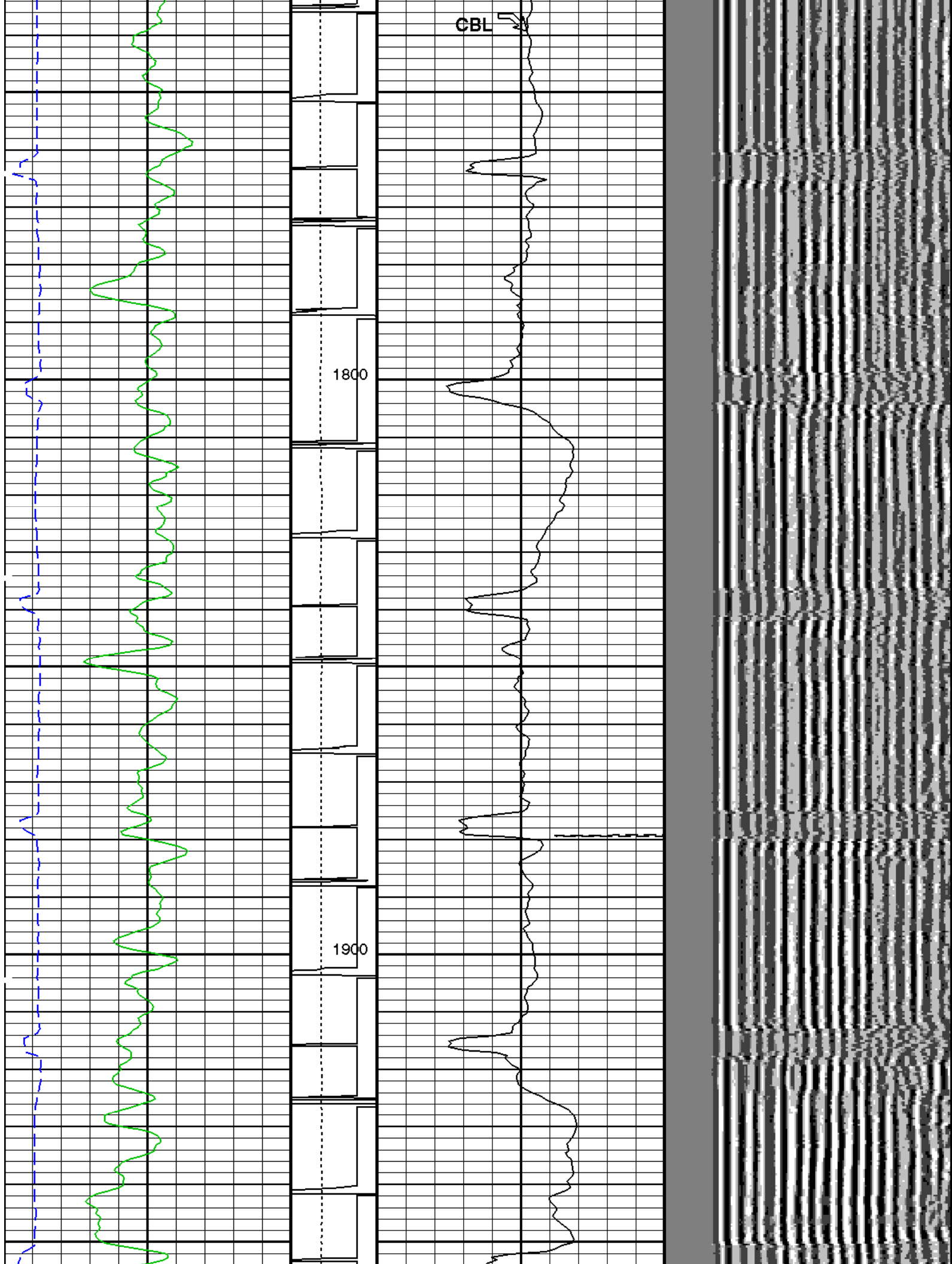


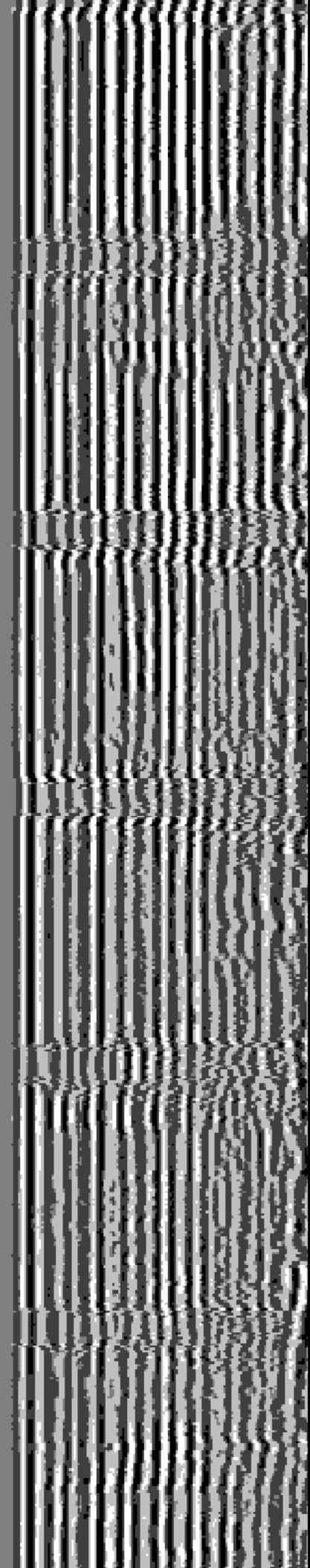
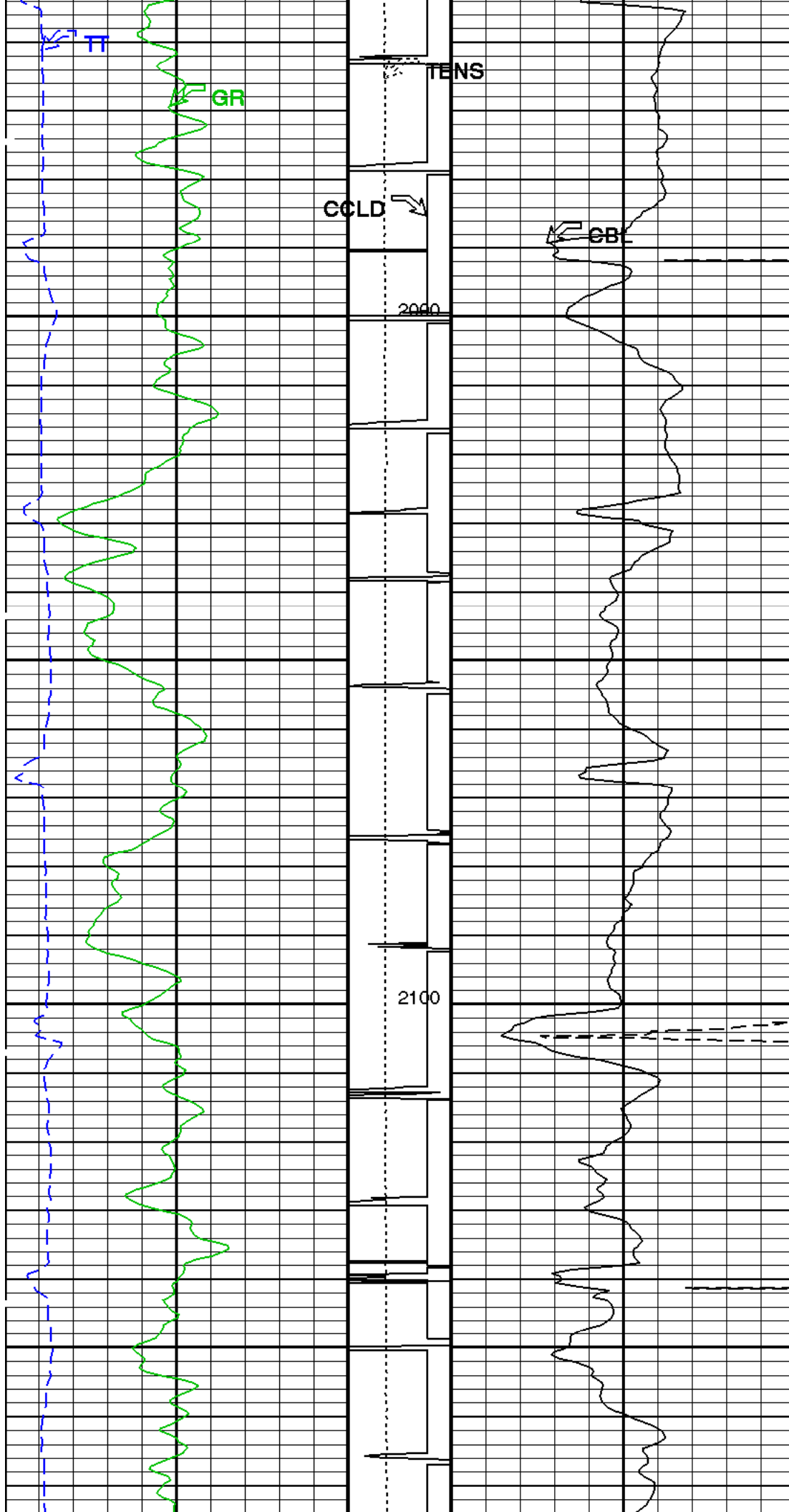


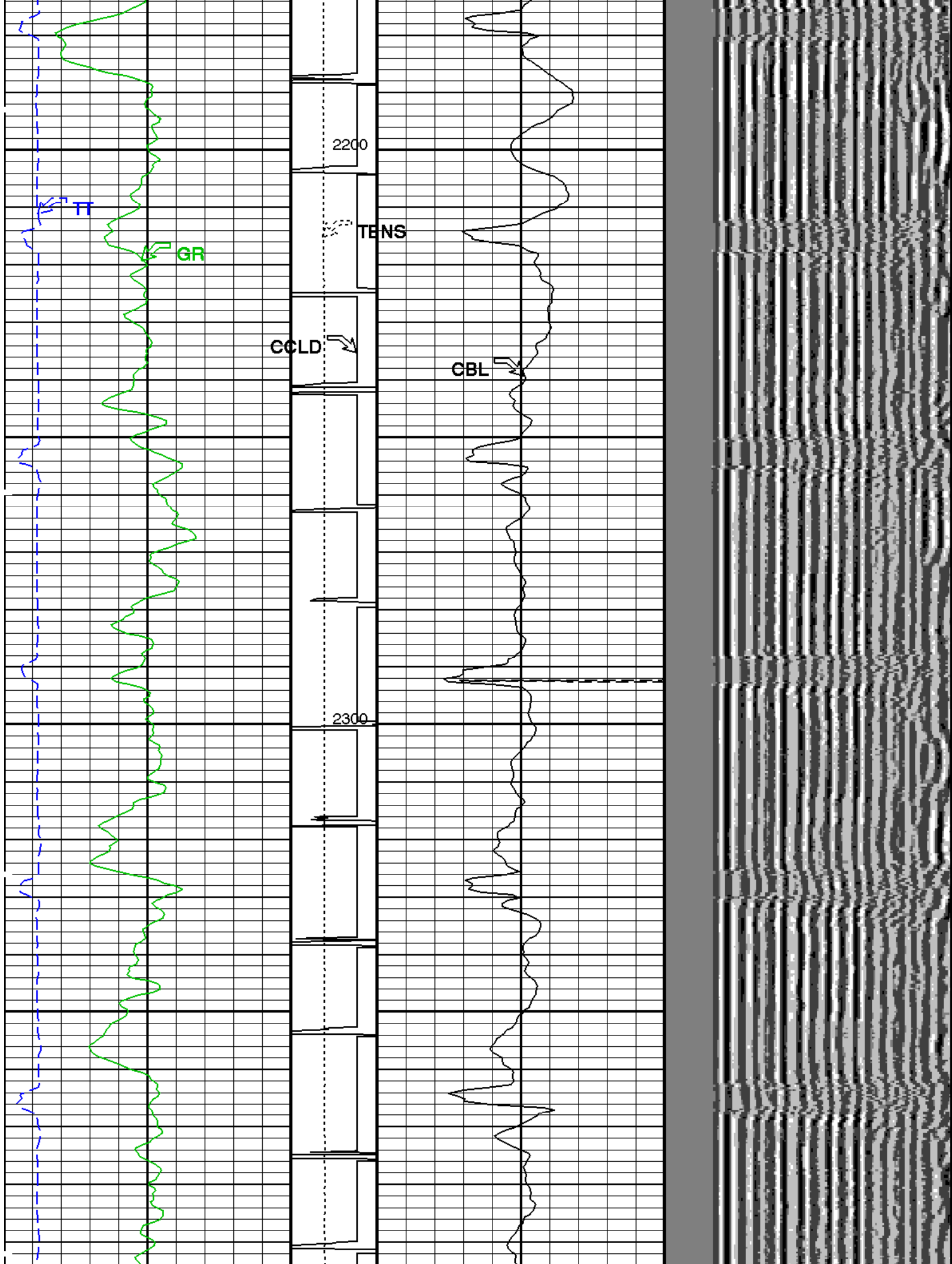


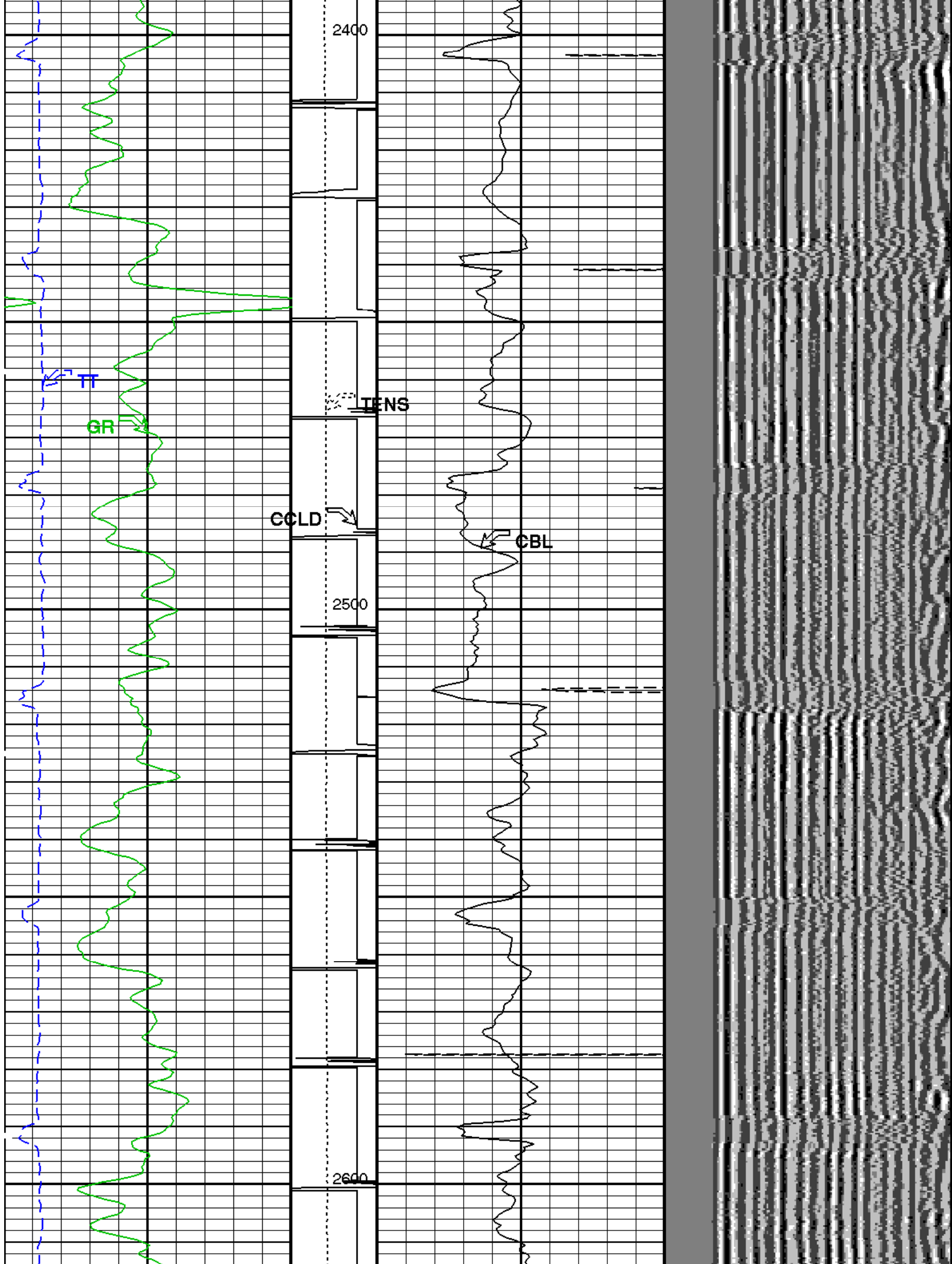


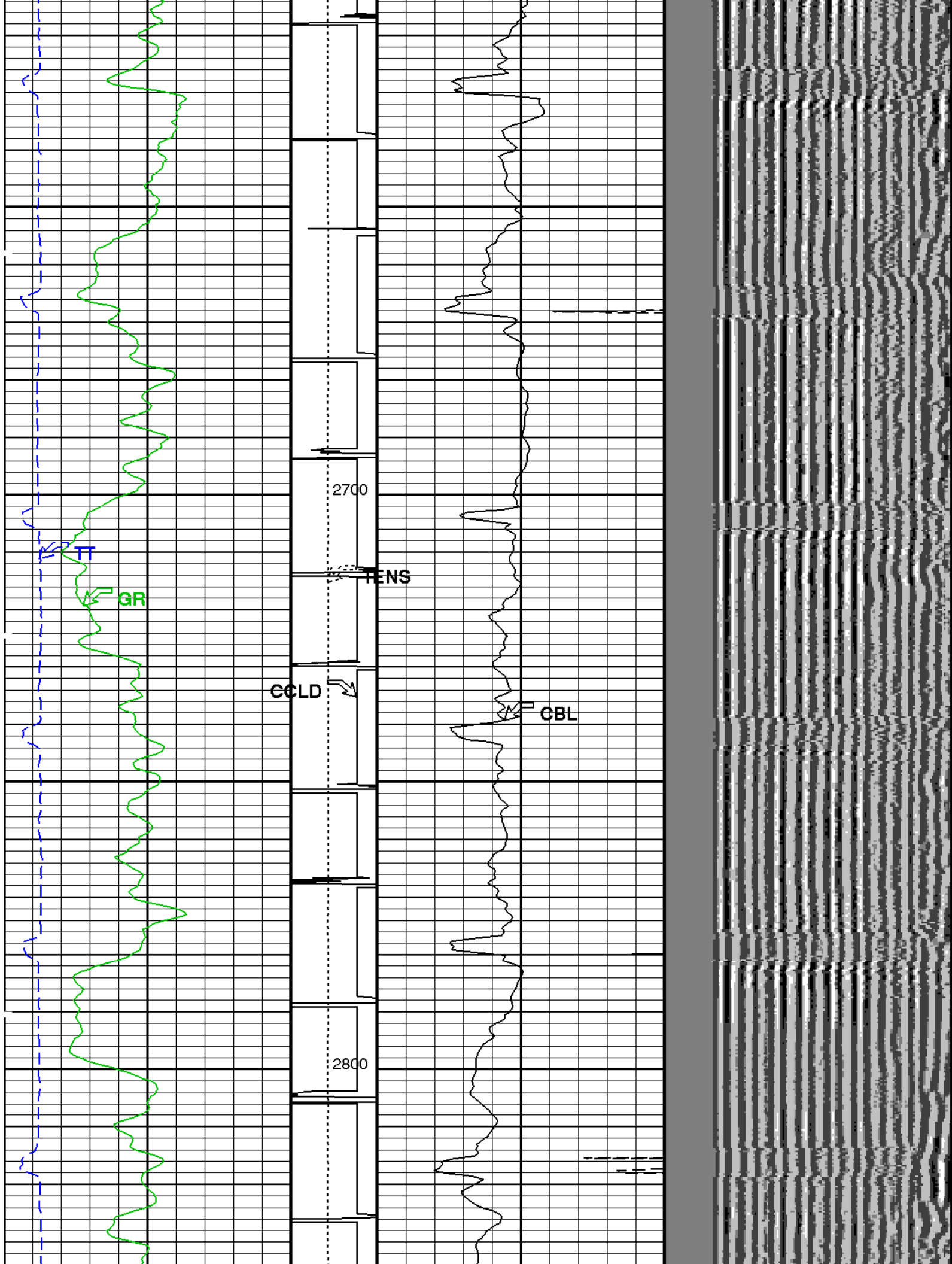


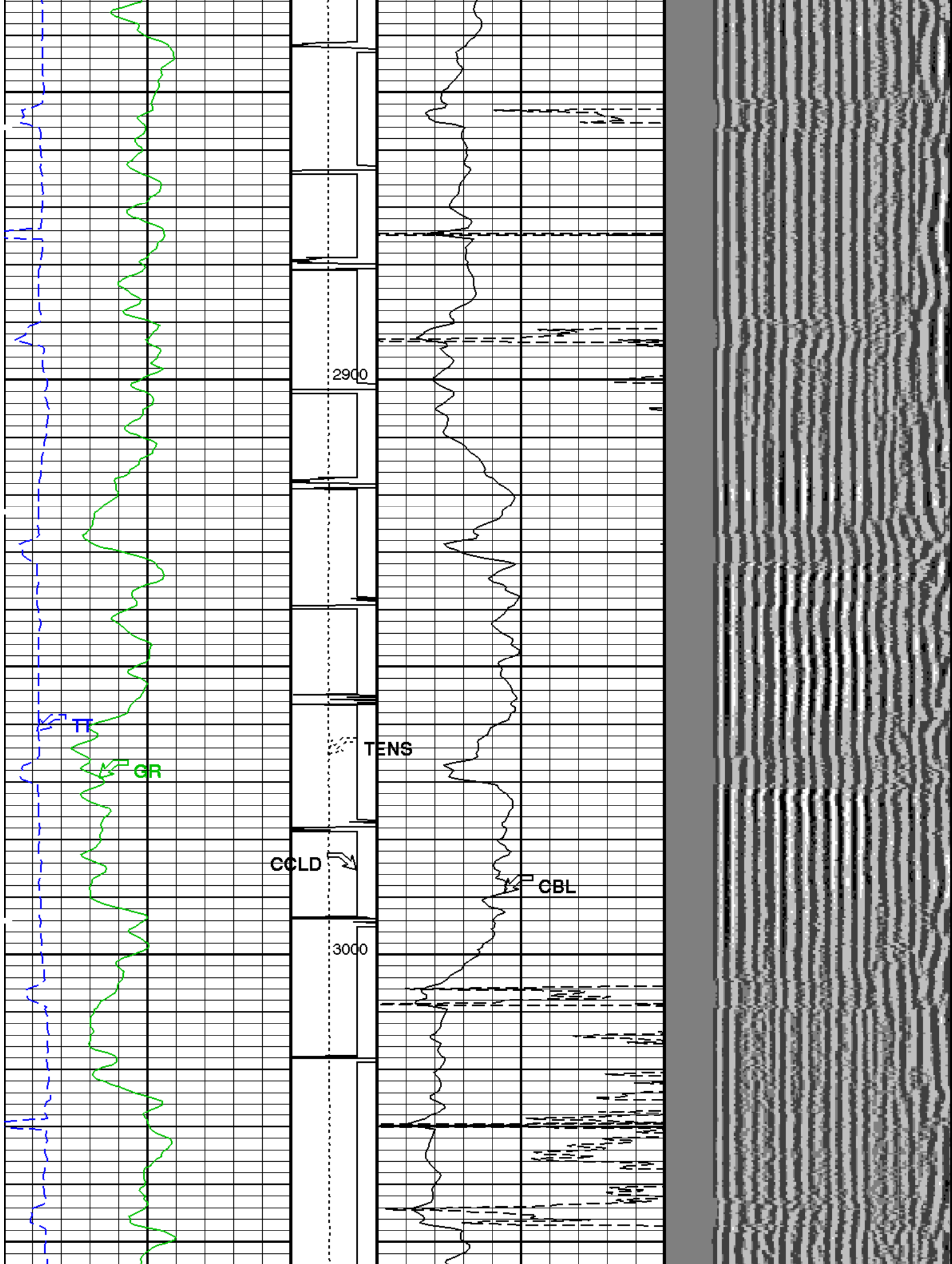


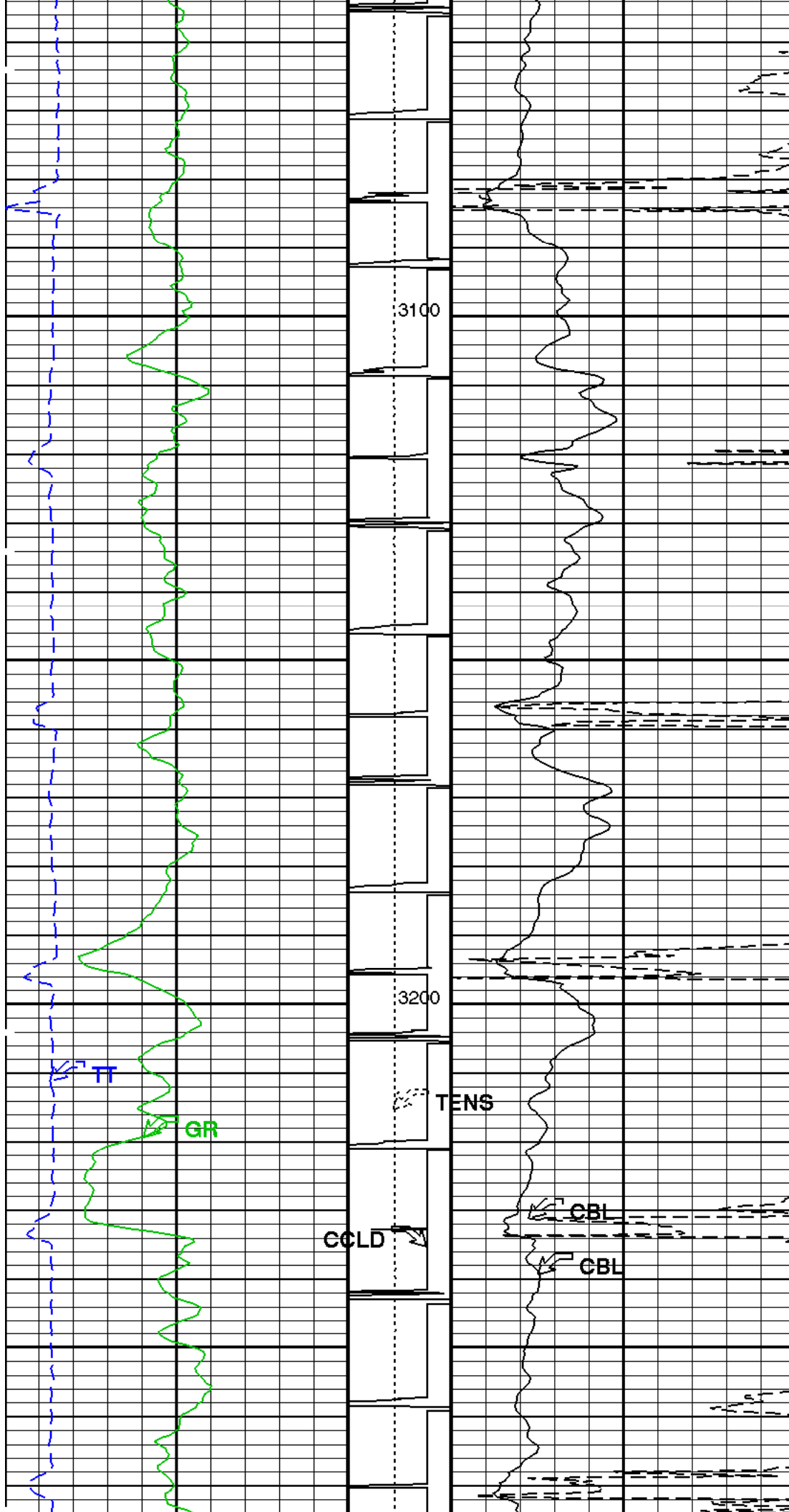


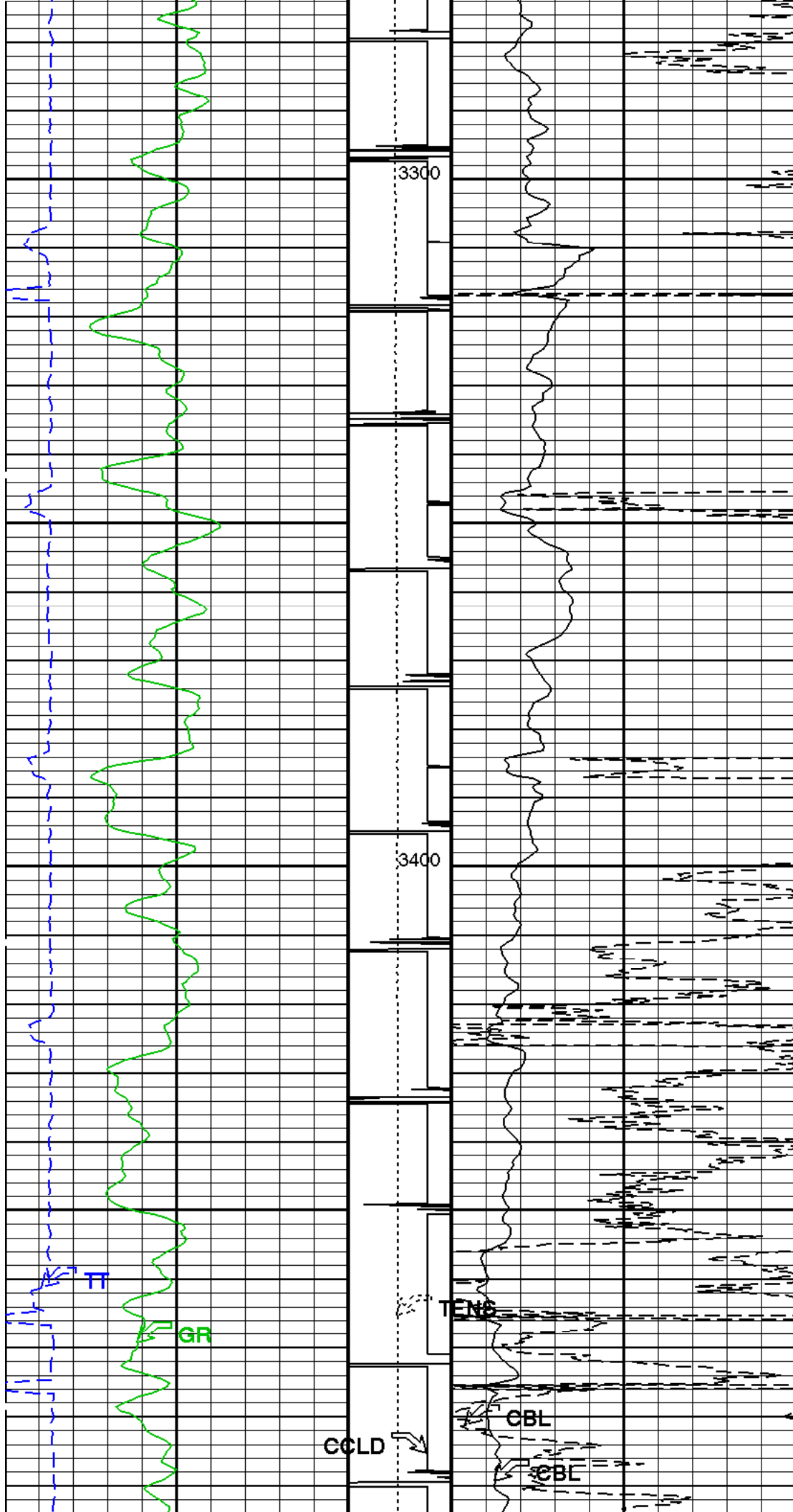


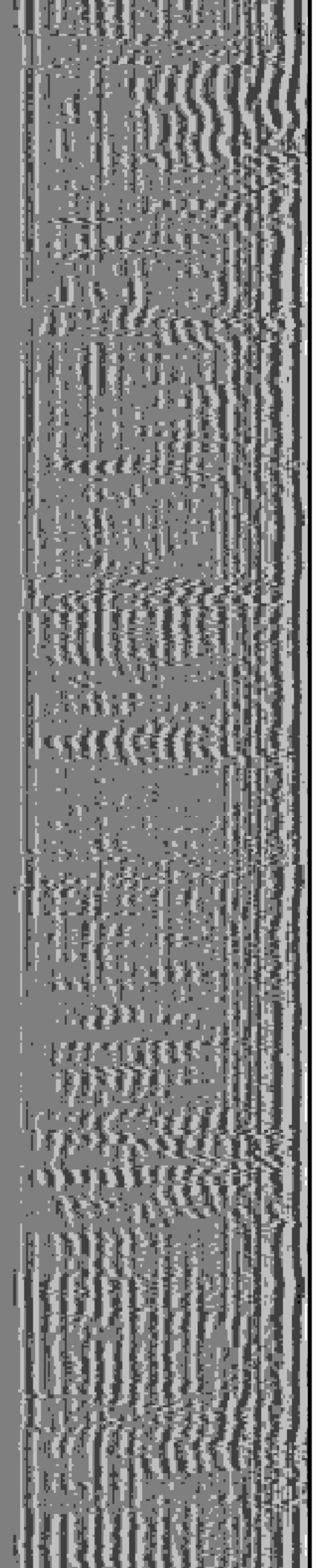
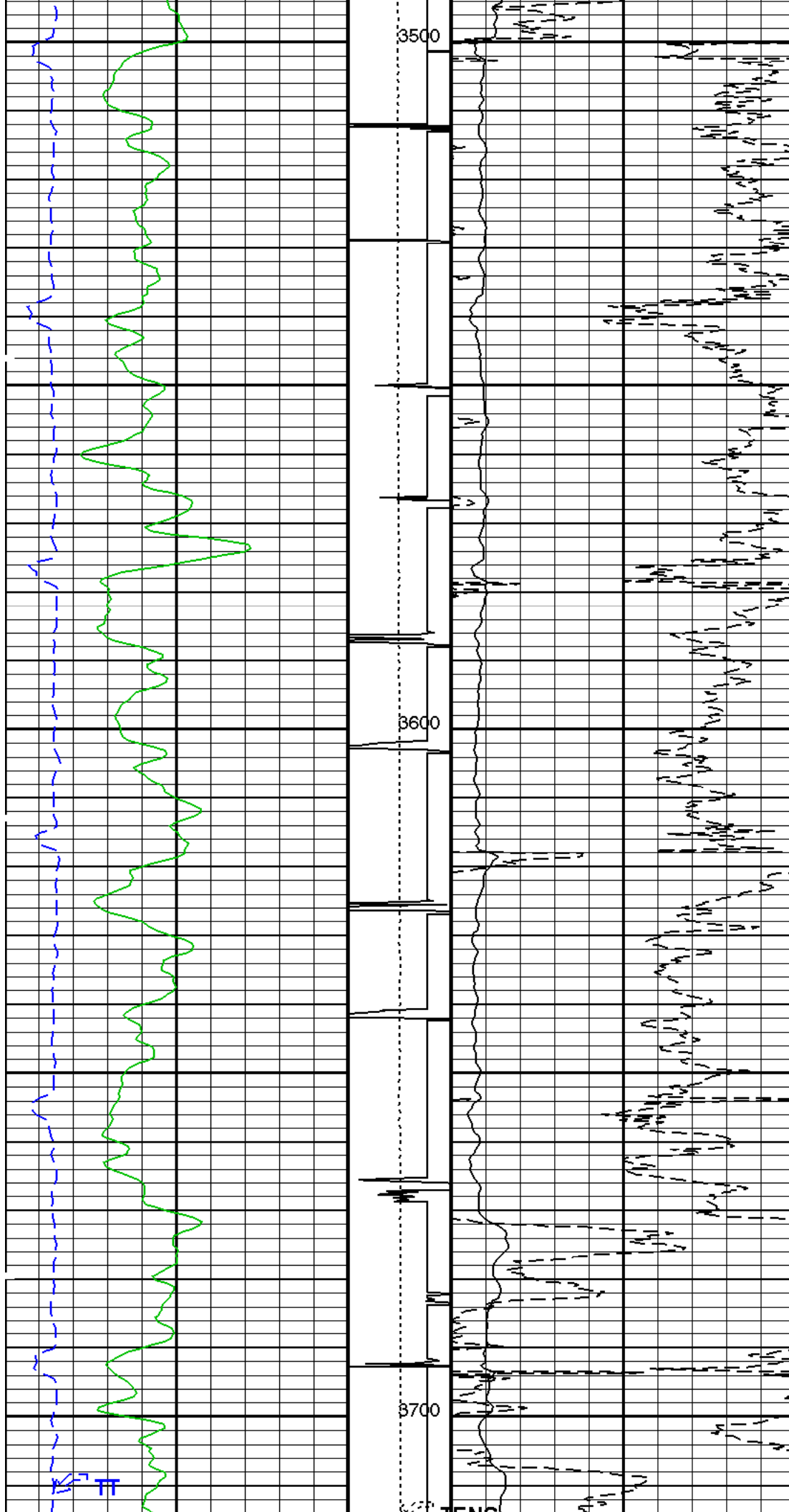












GR

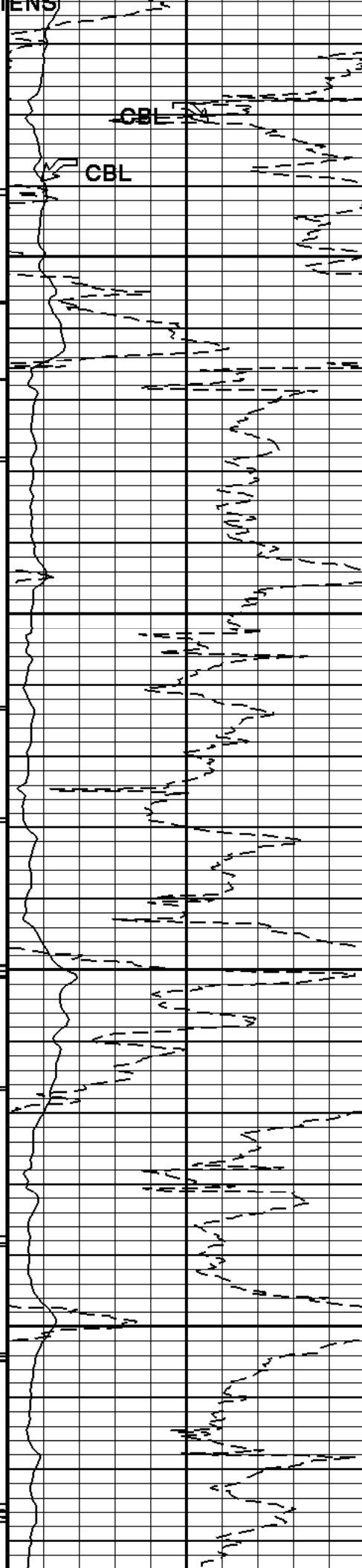
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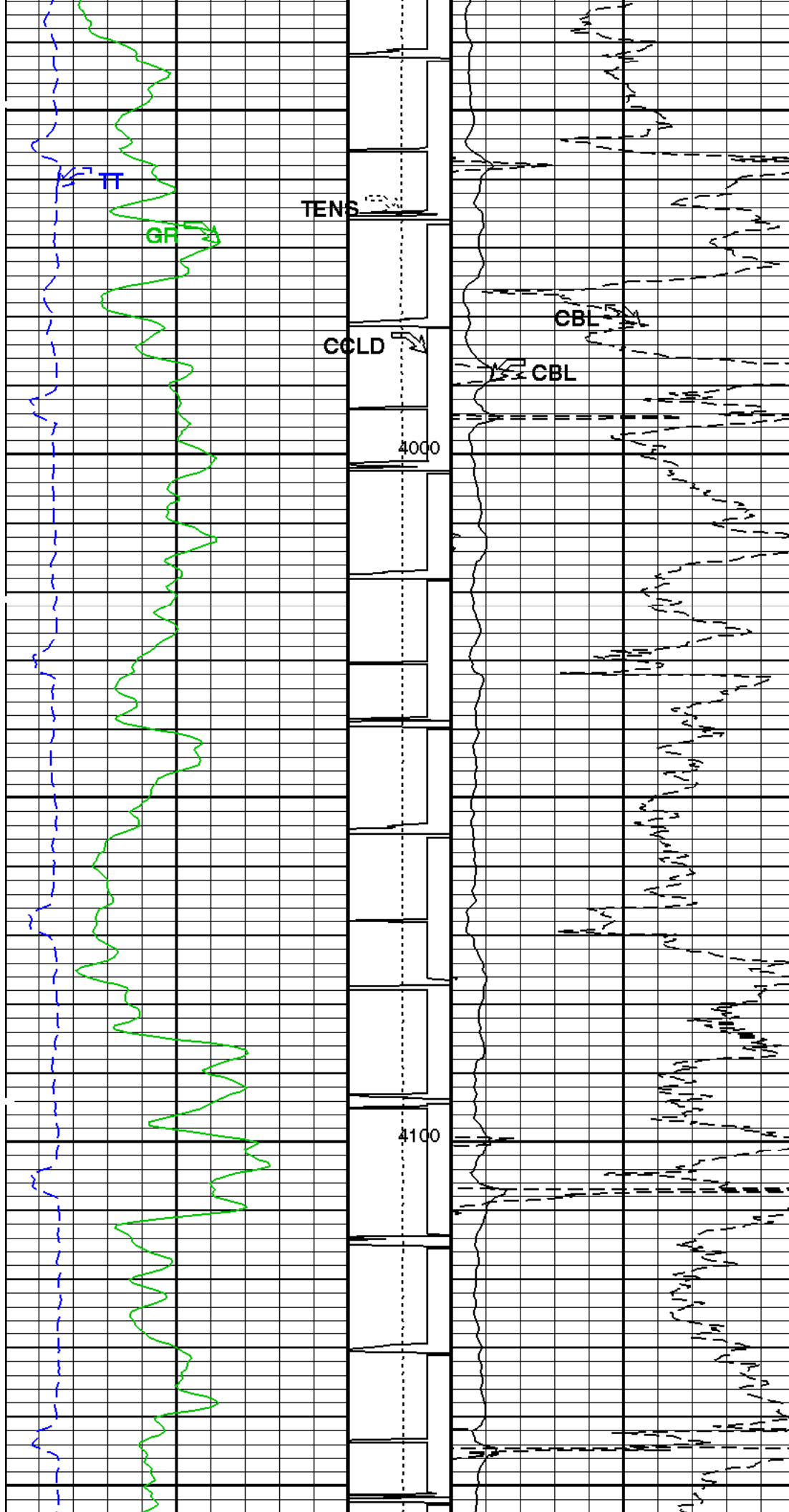
CBL

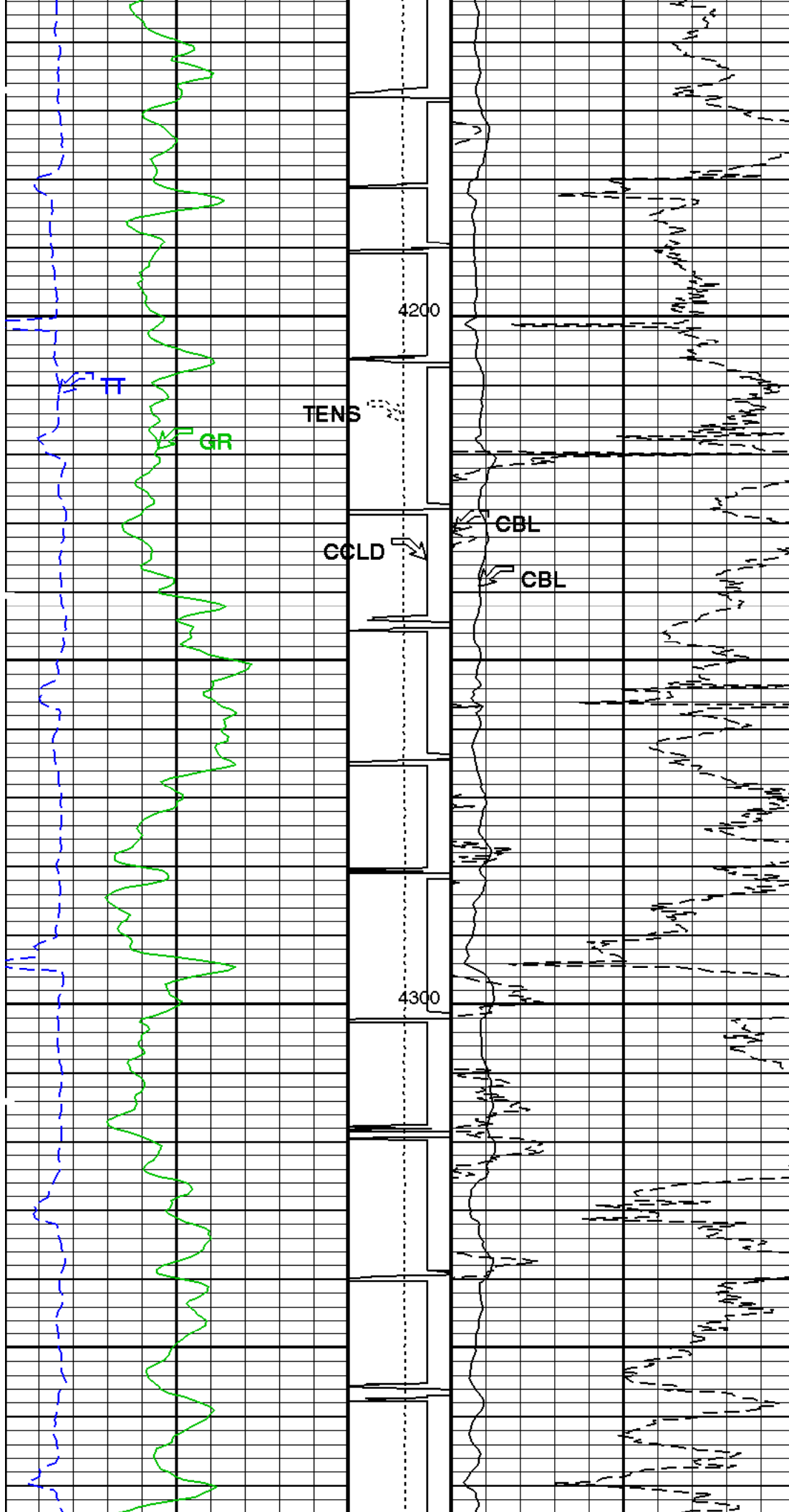
CBL

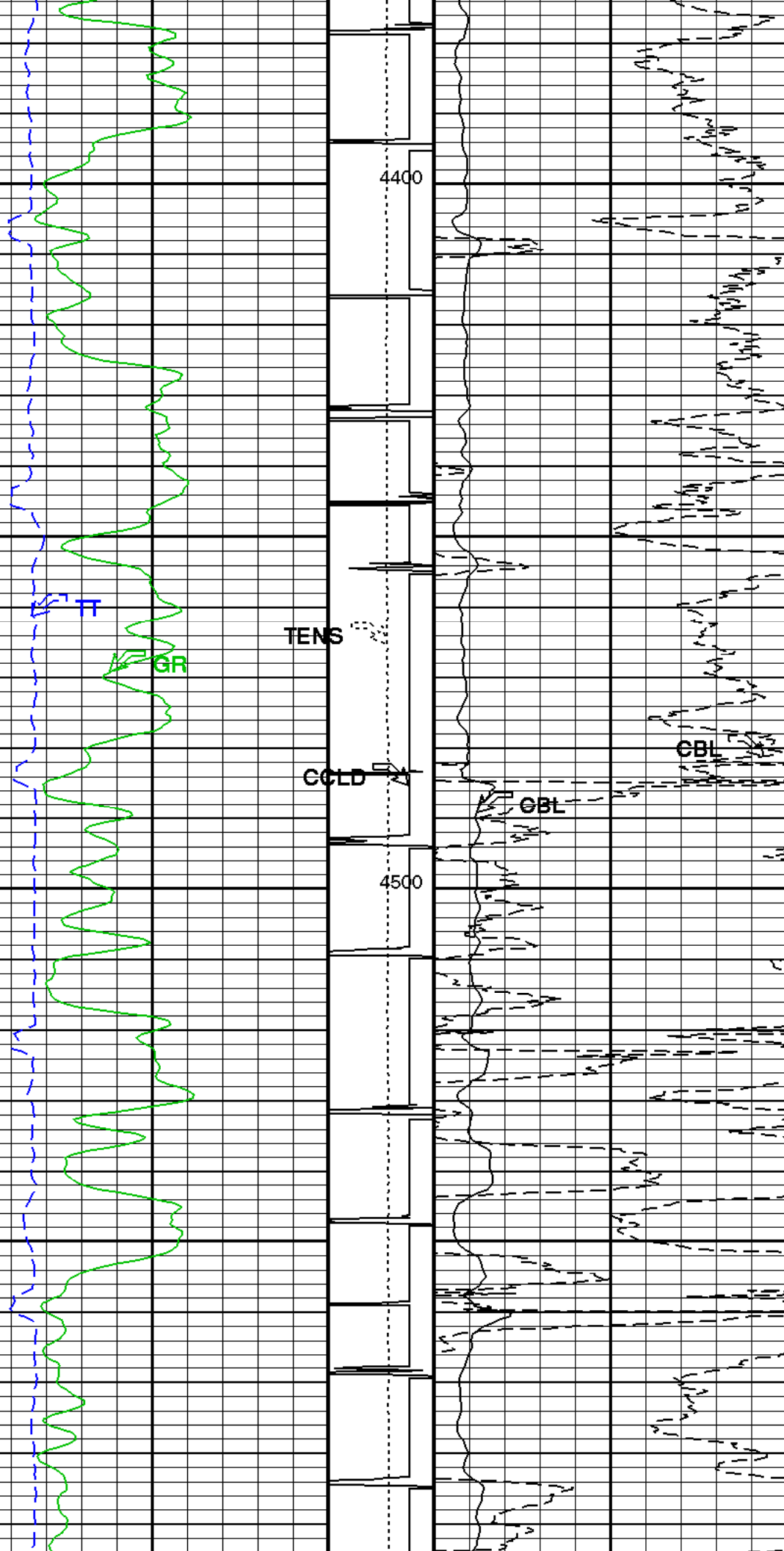
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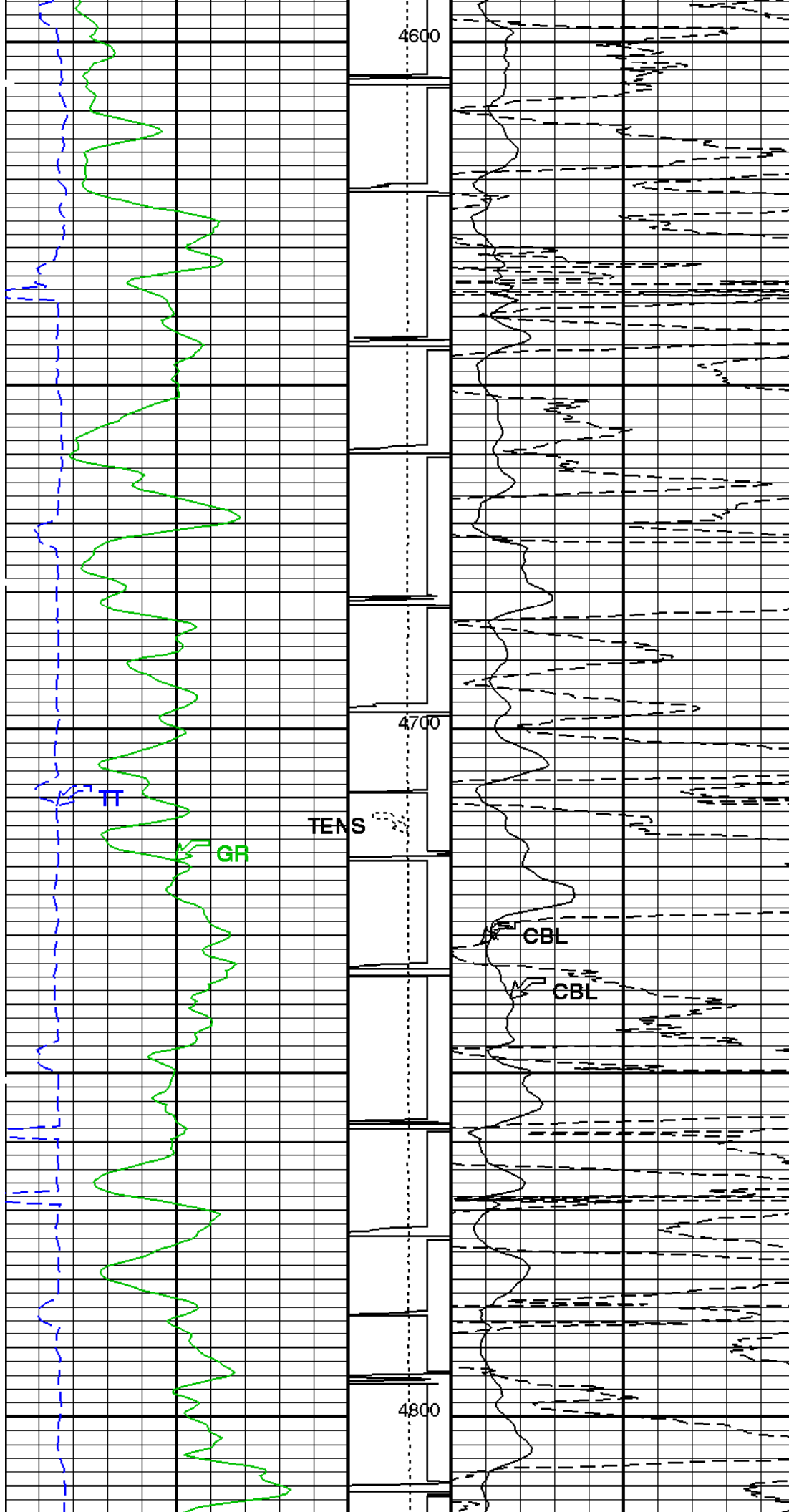
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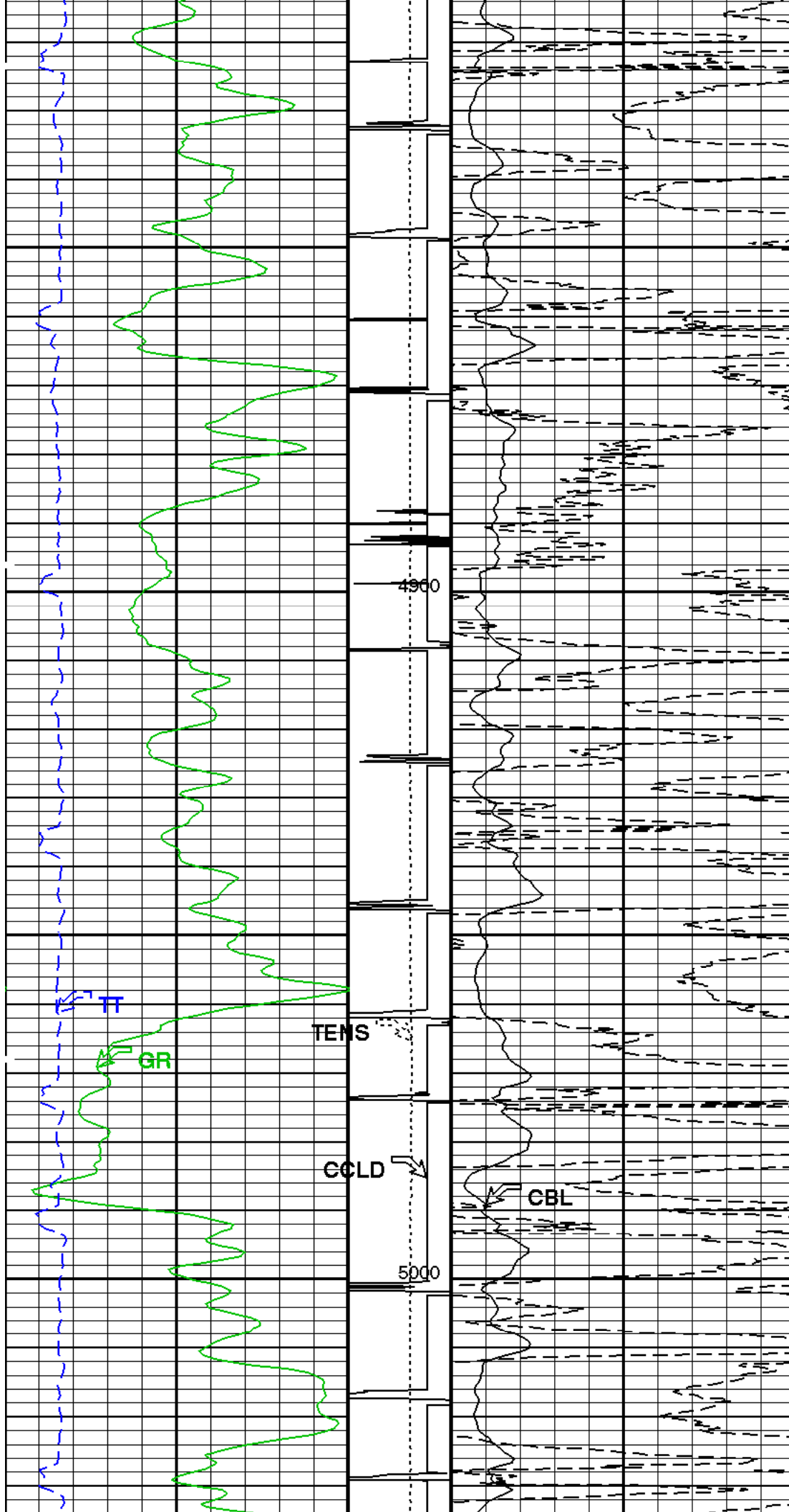


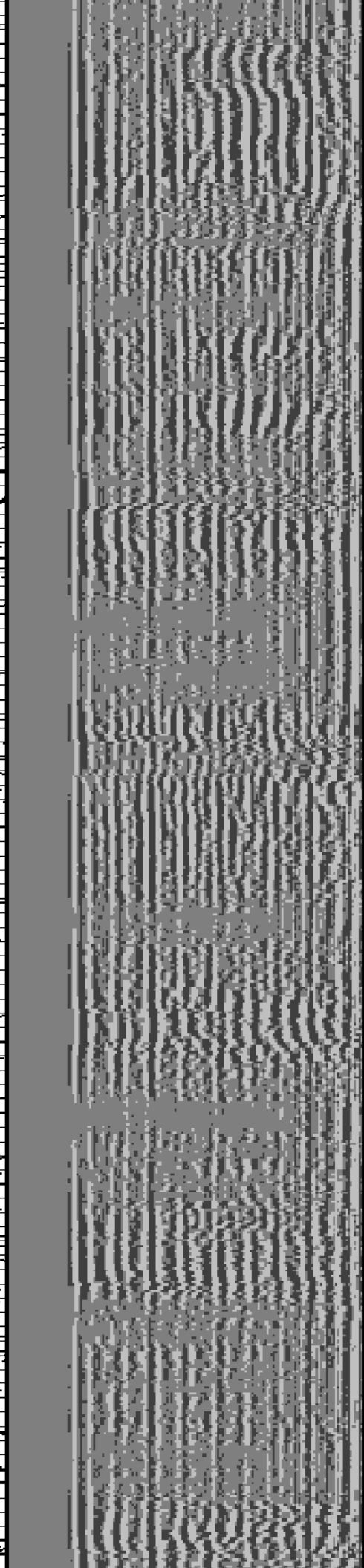
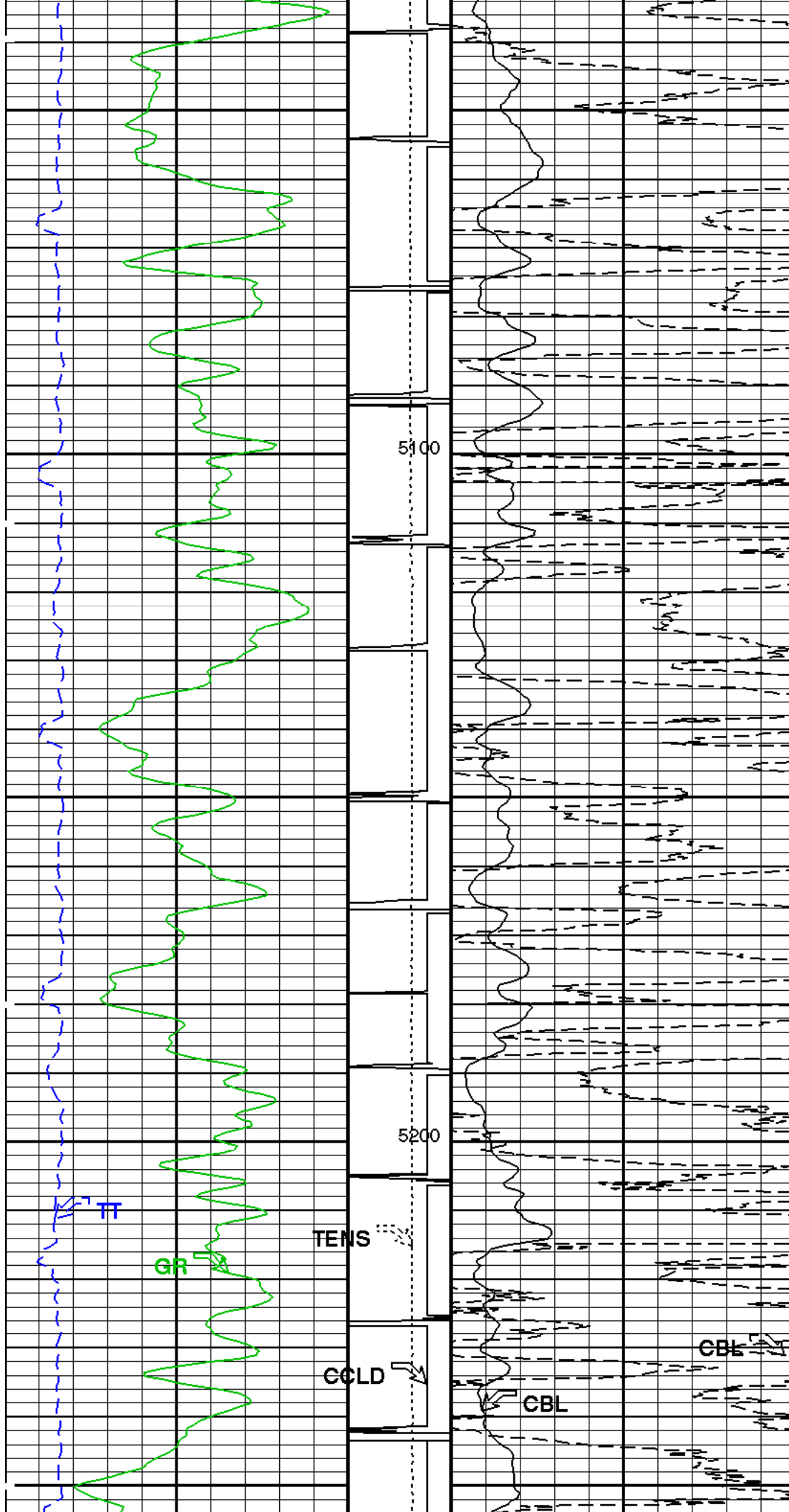


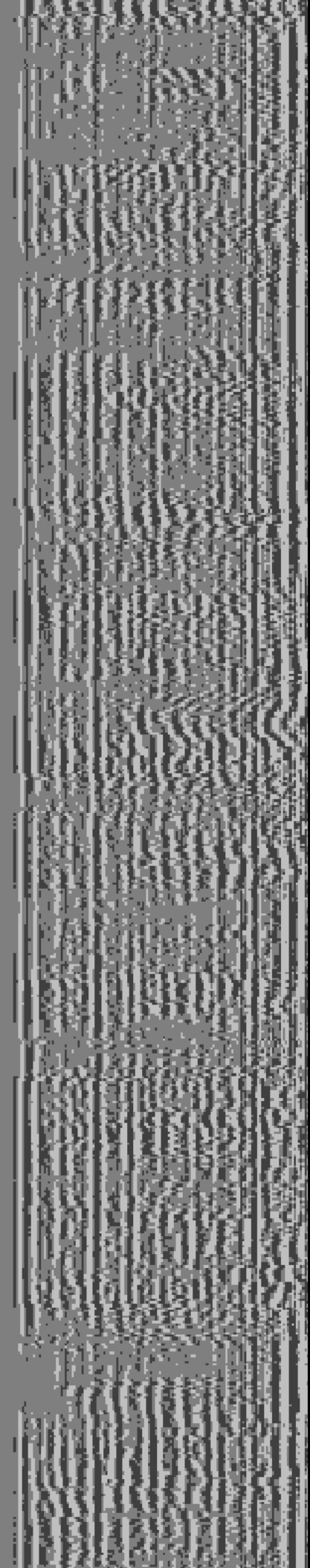
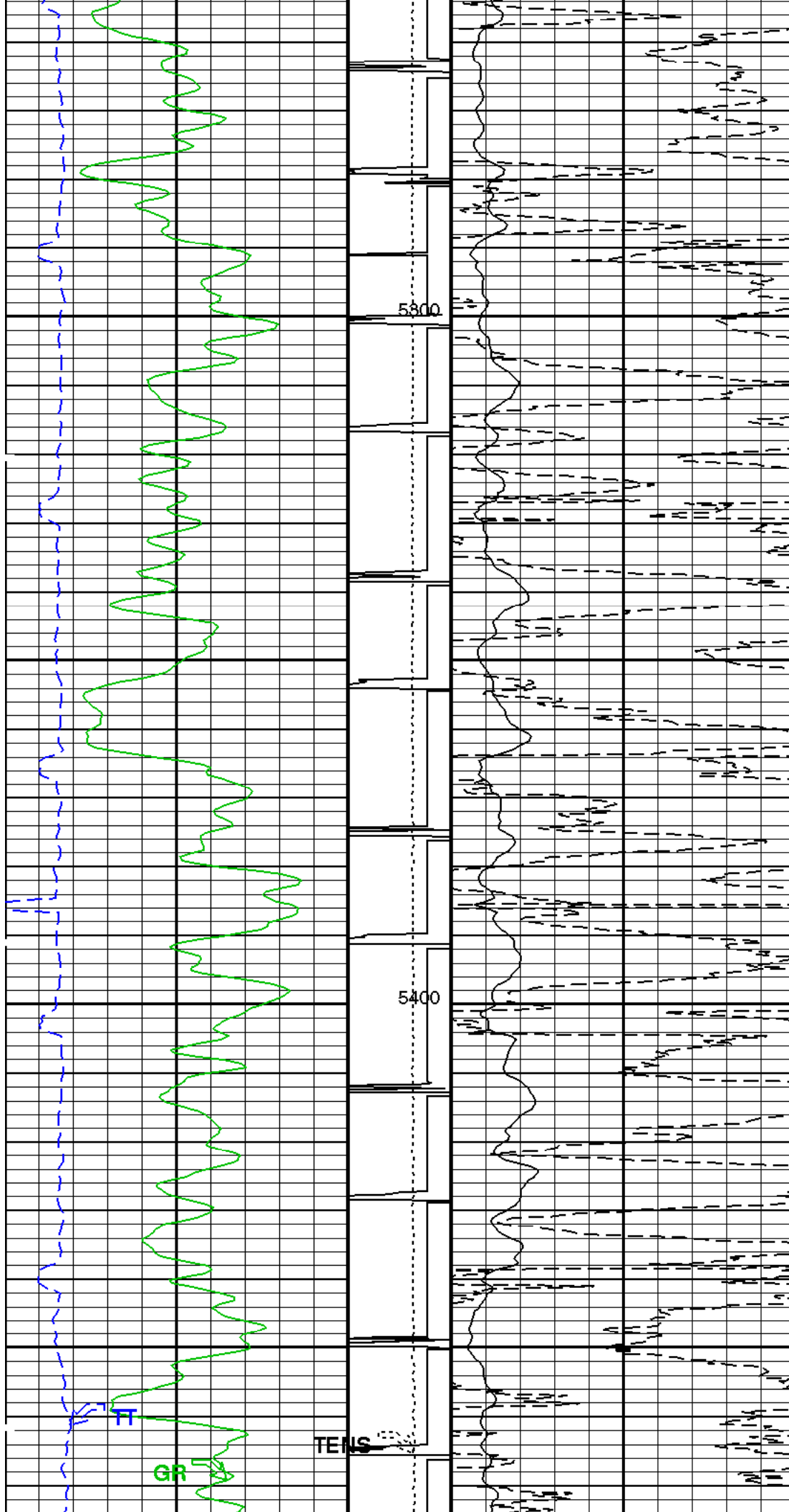


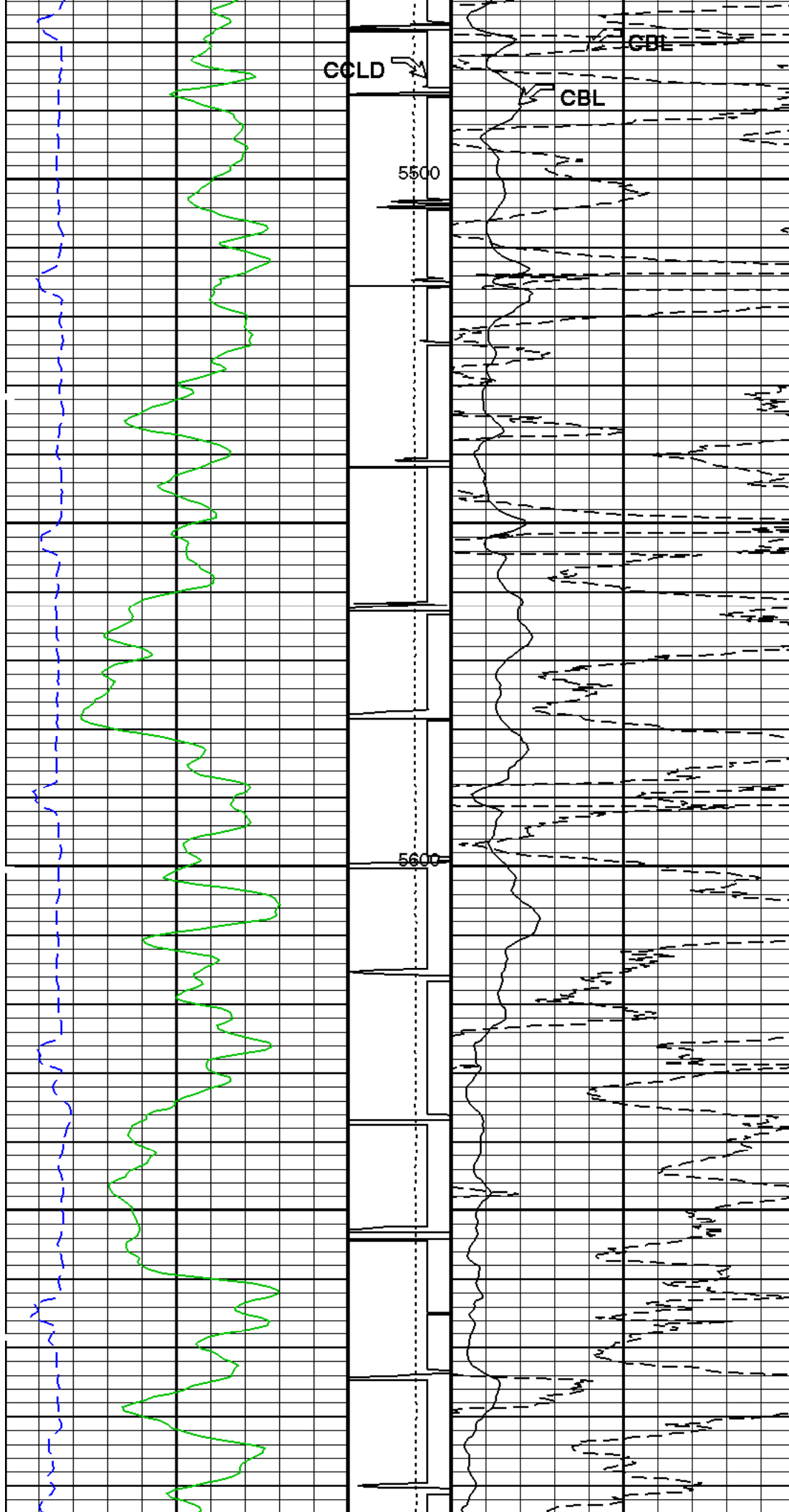


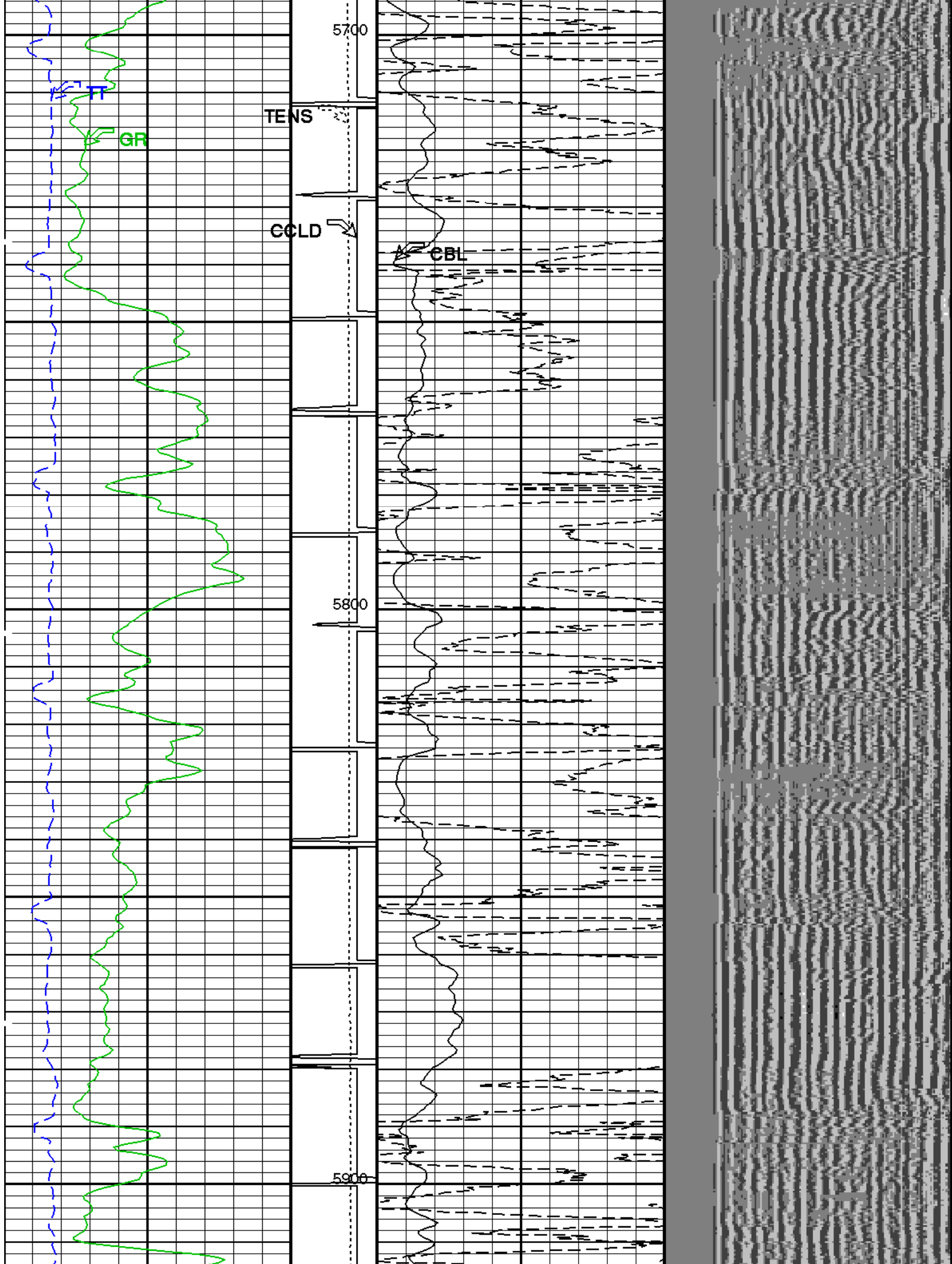


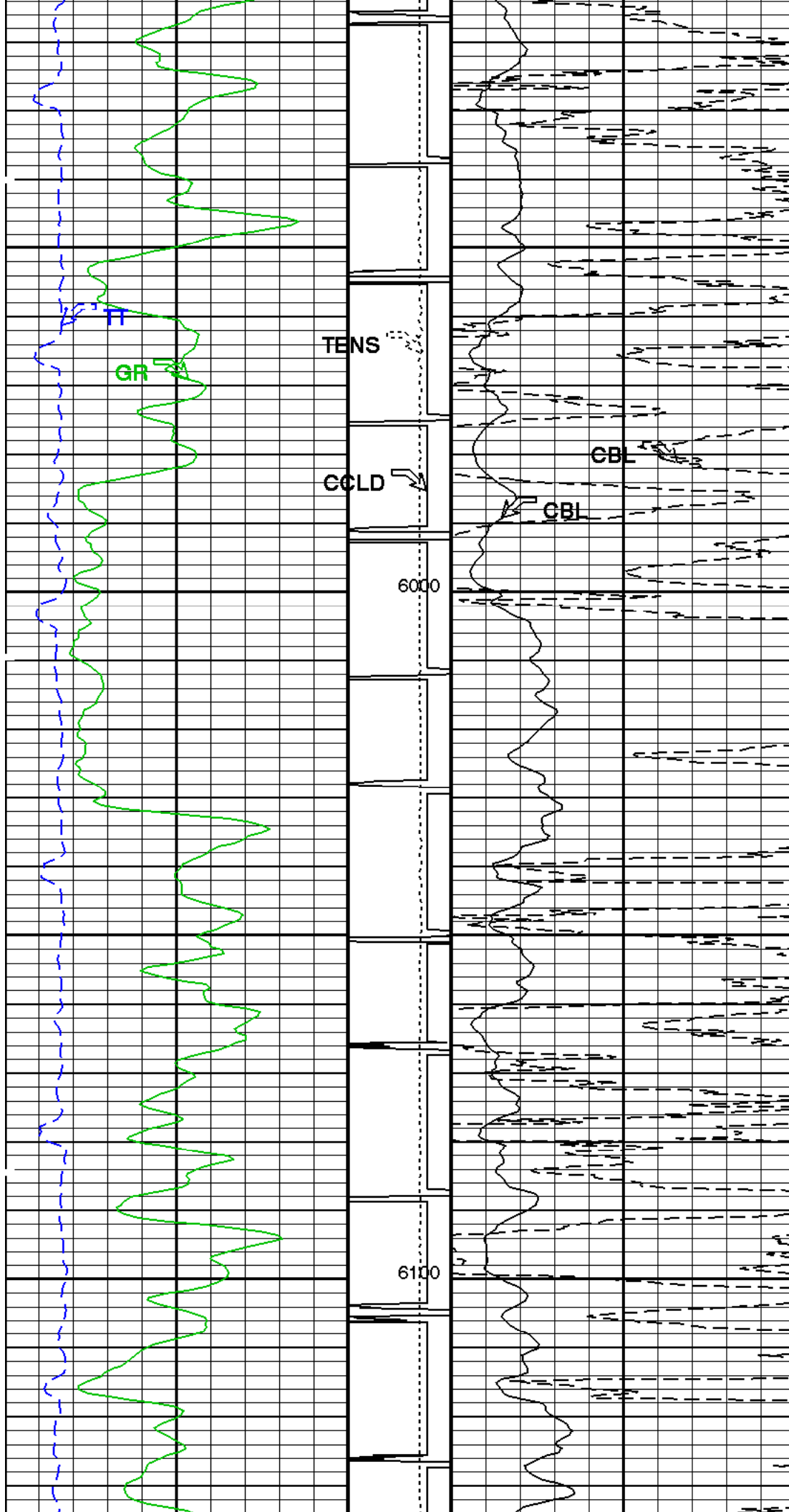


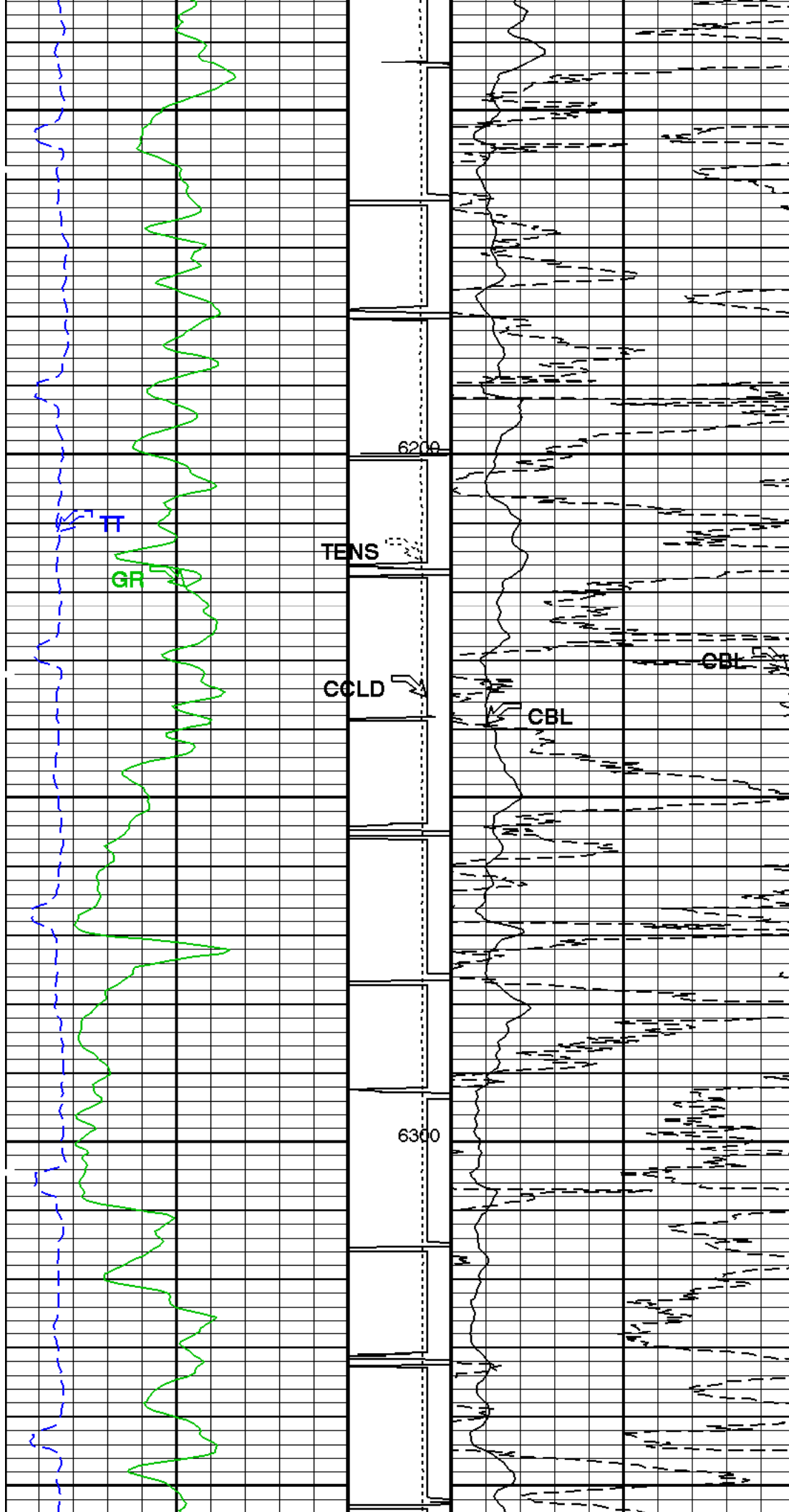


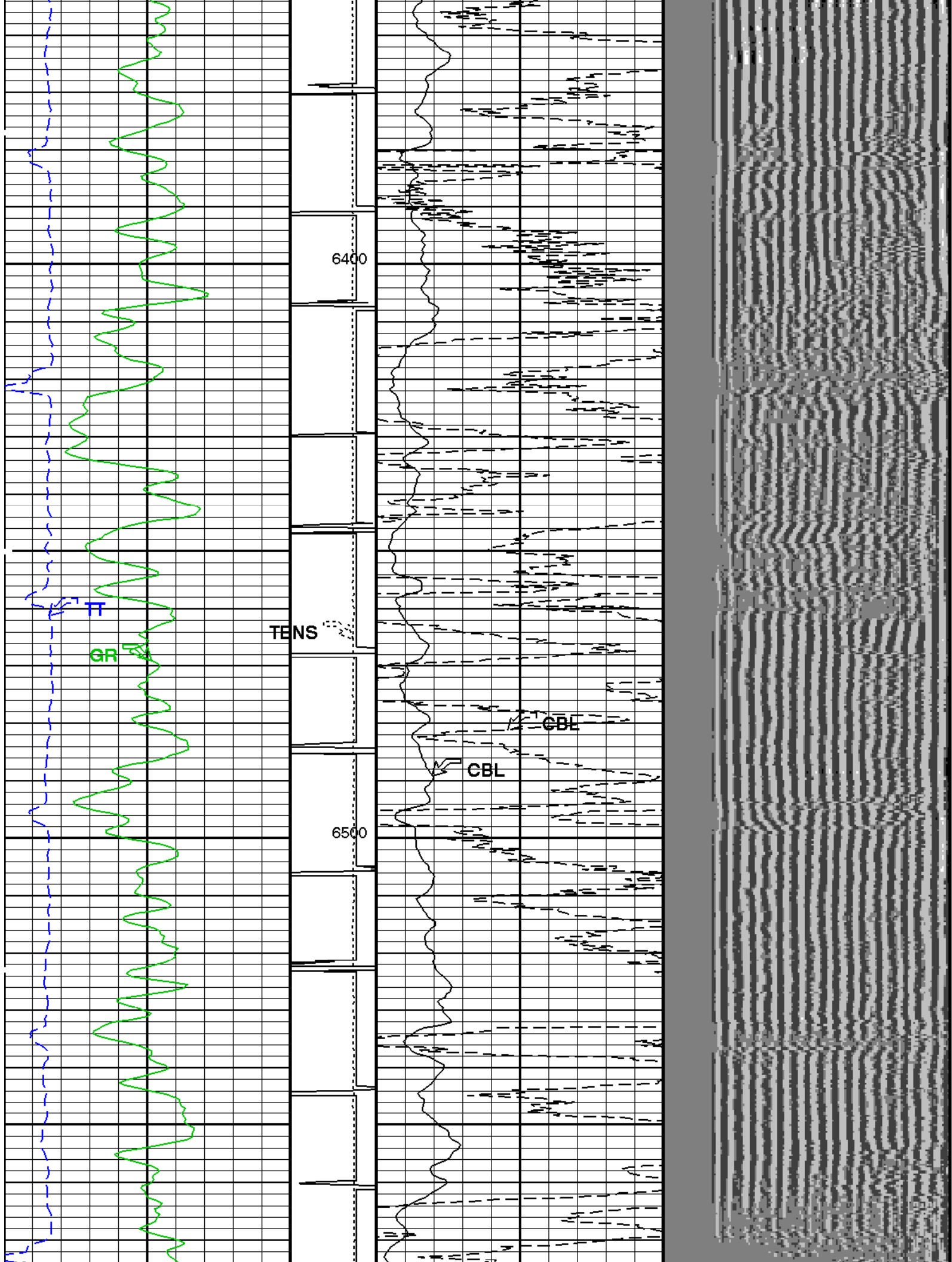


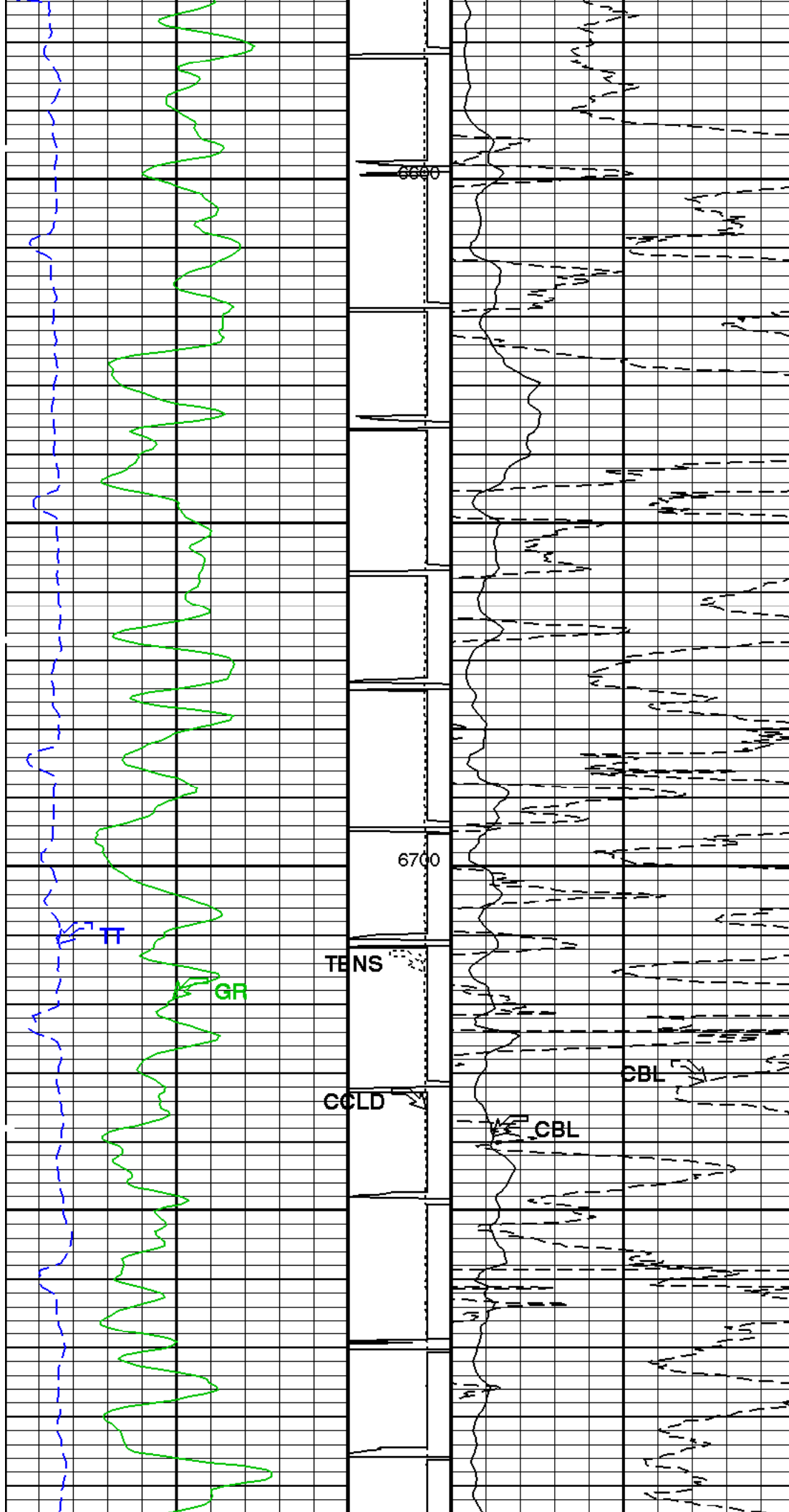


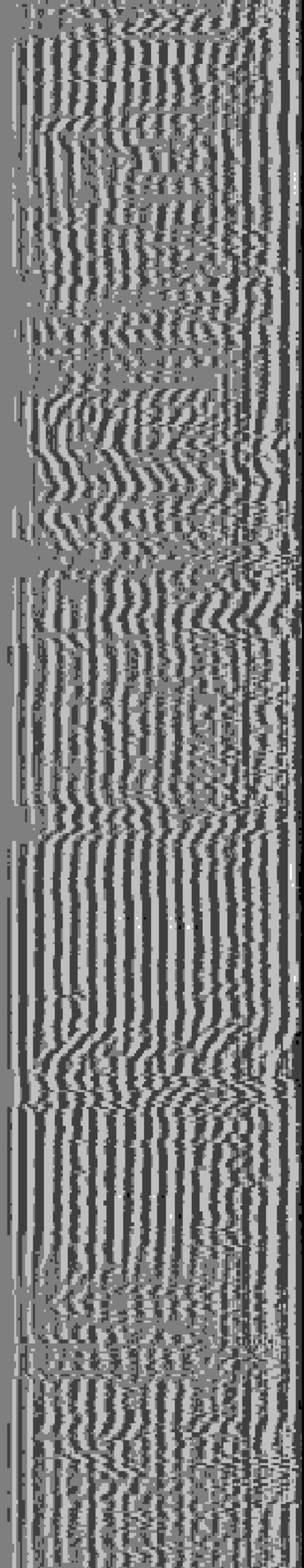
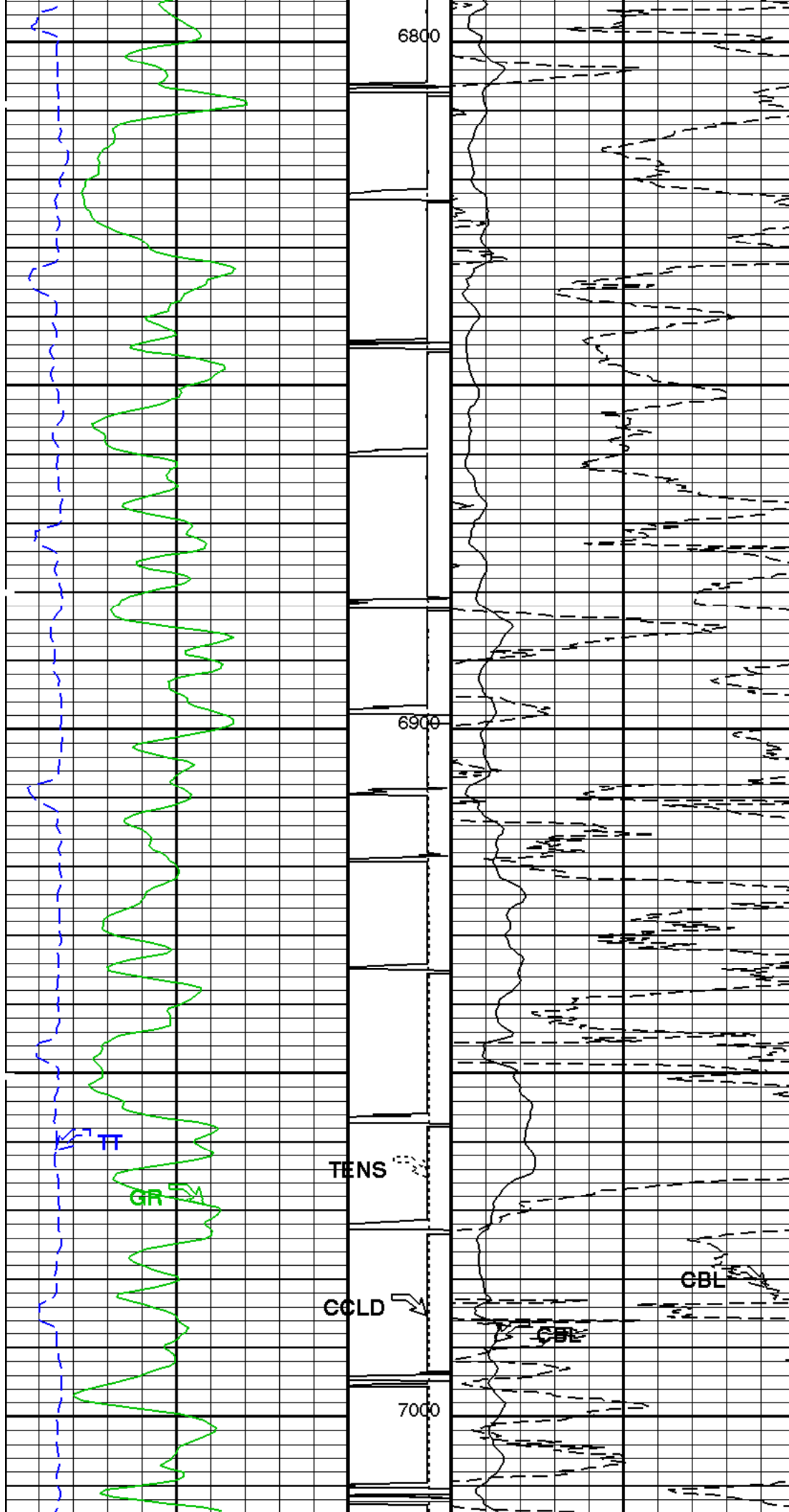


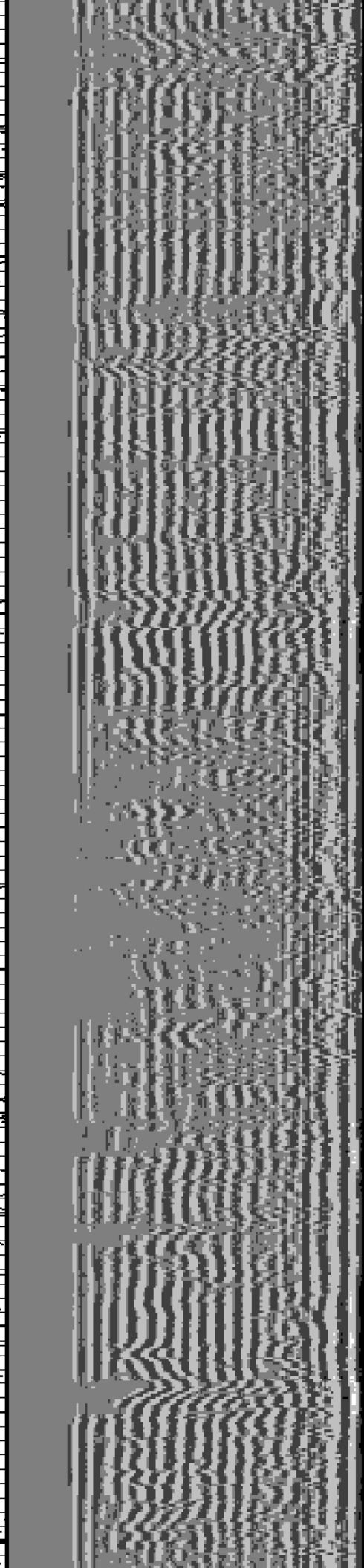
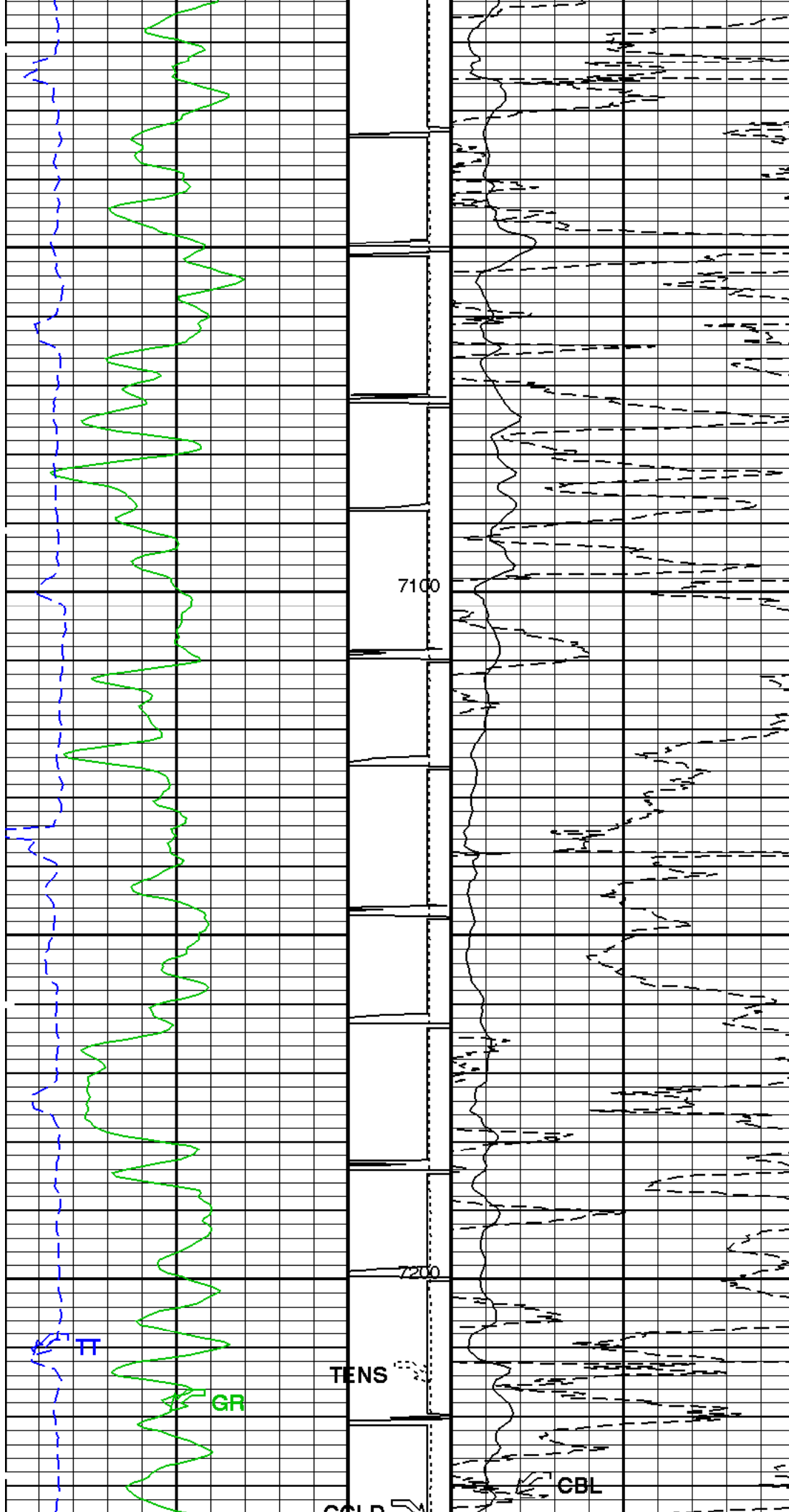


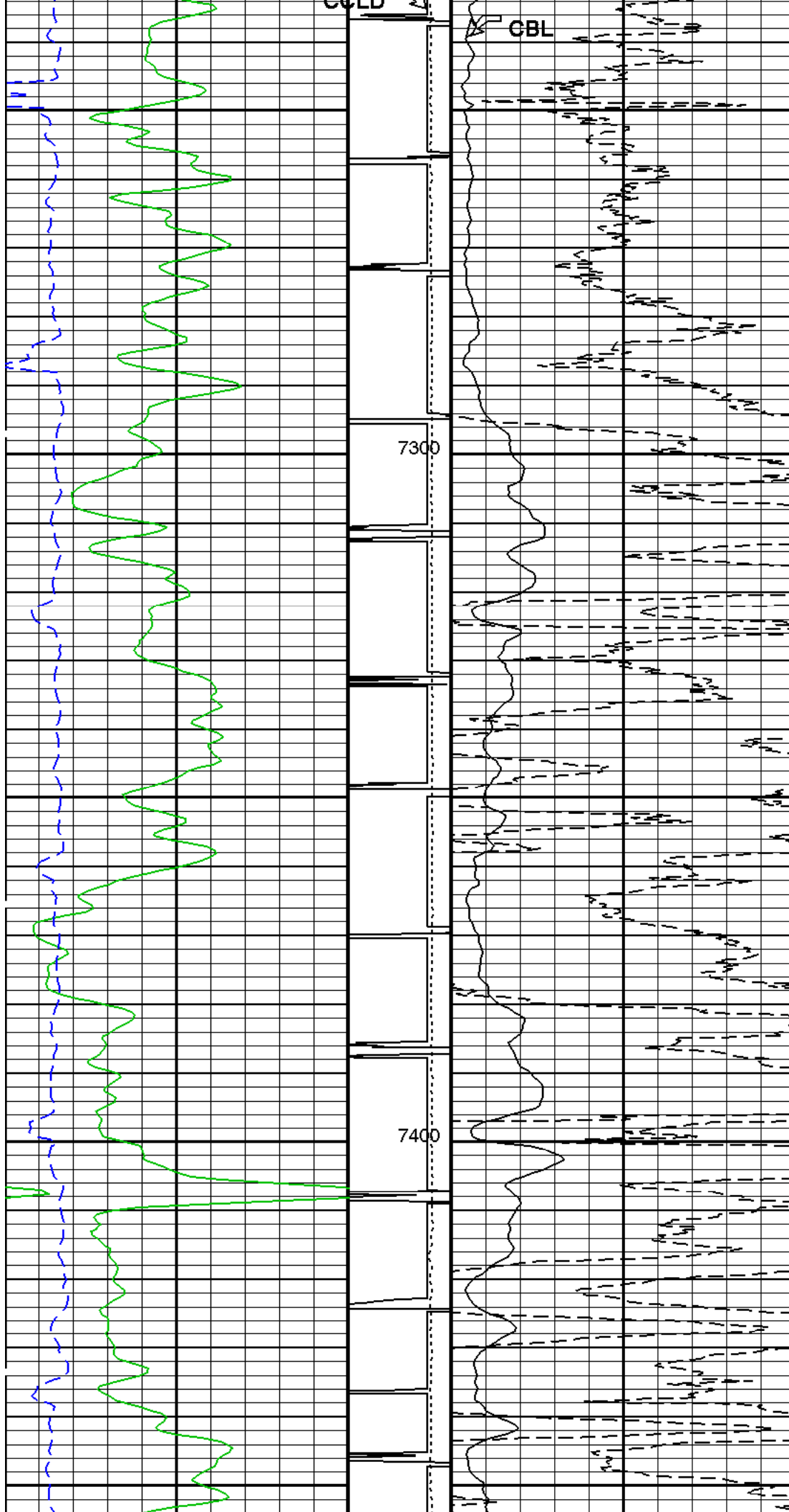


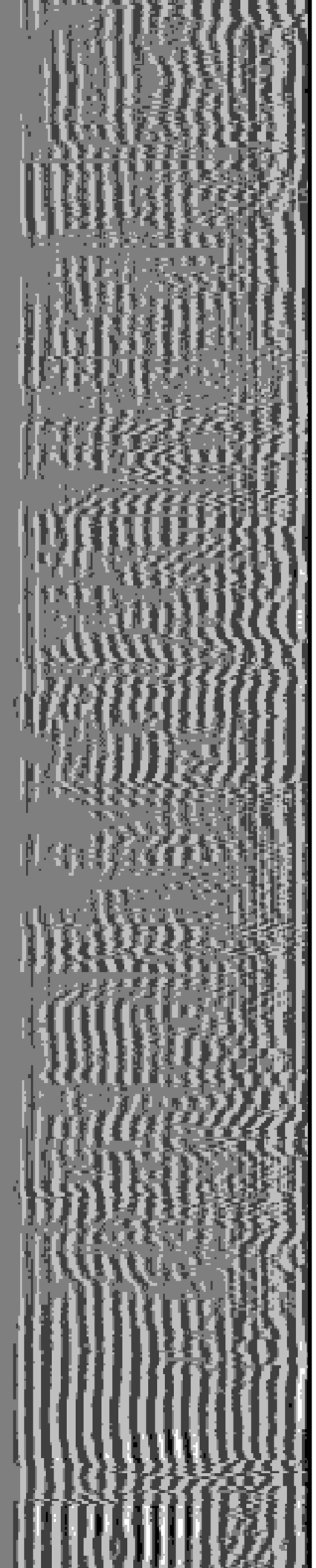
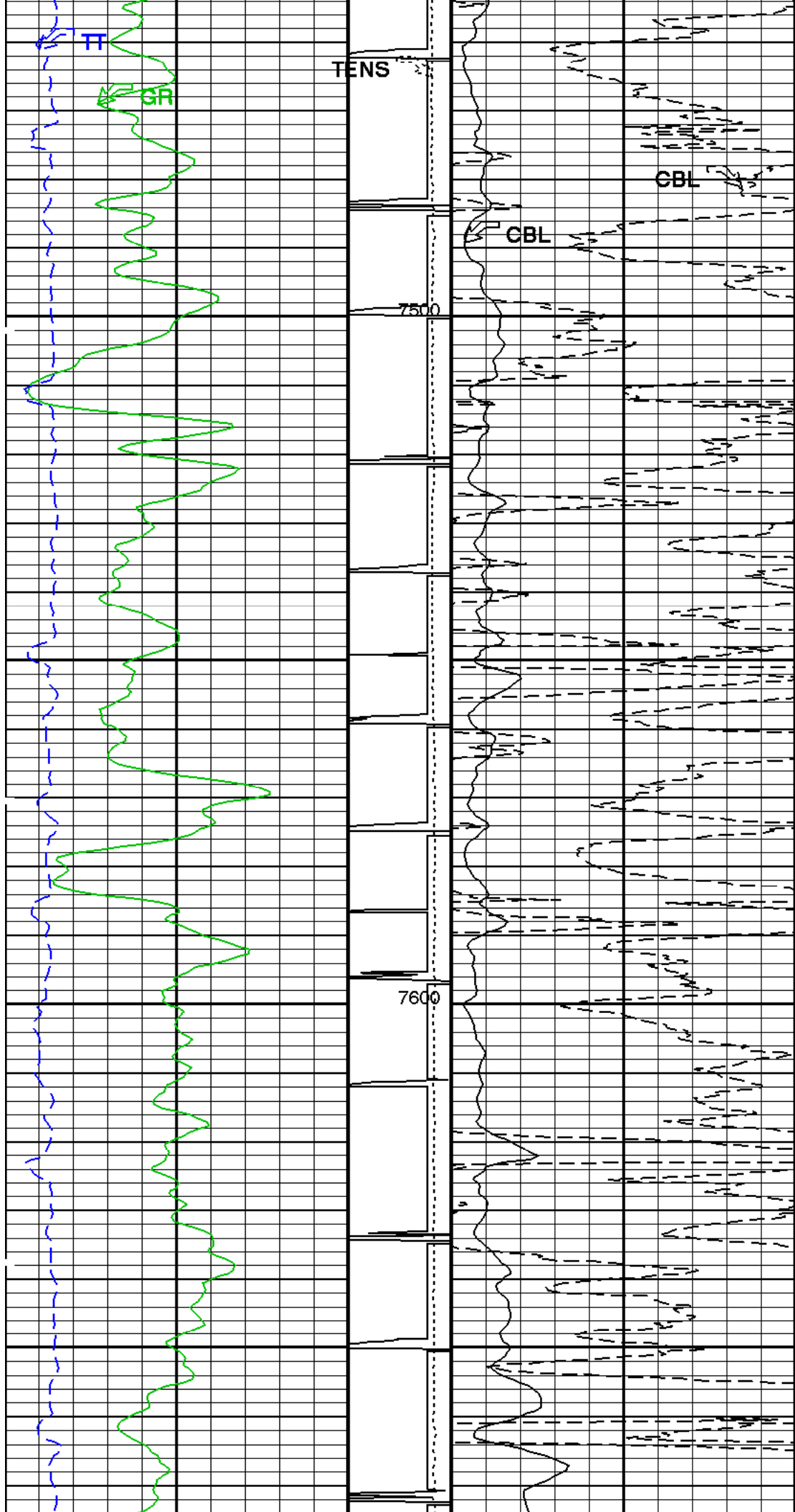


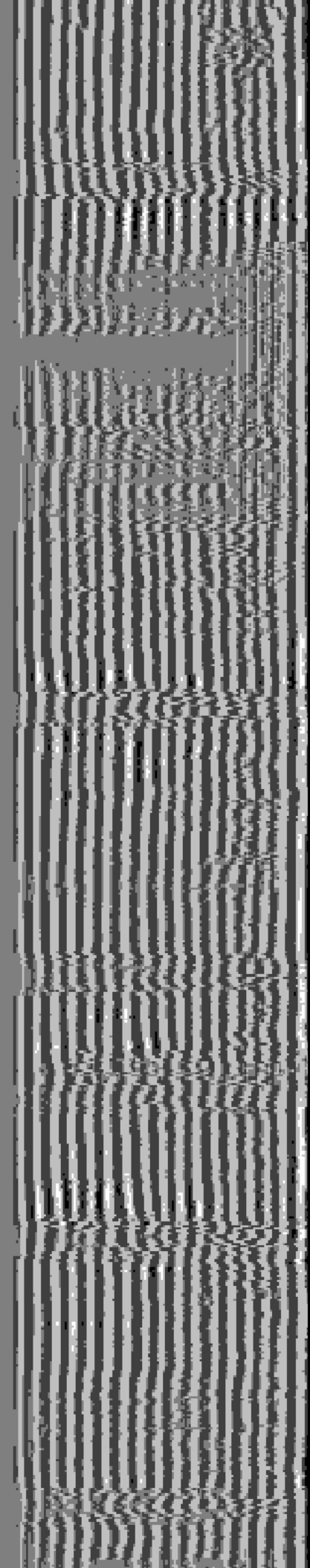
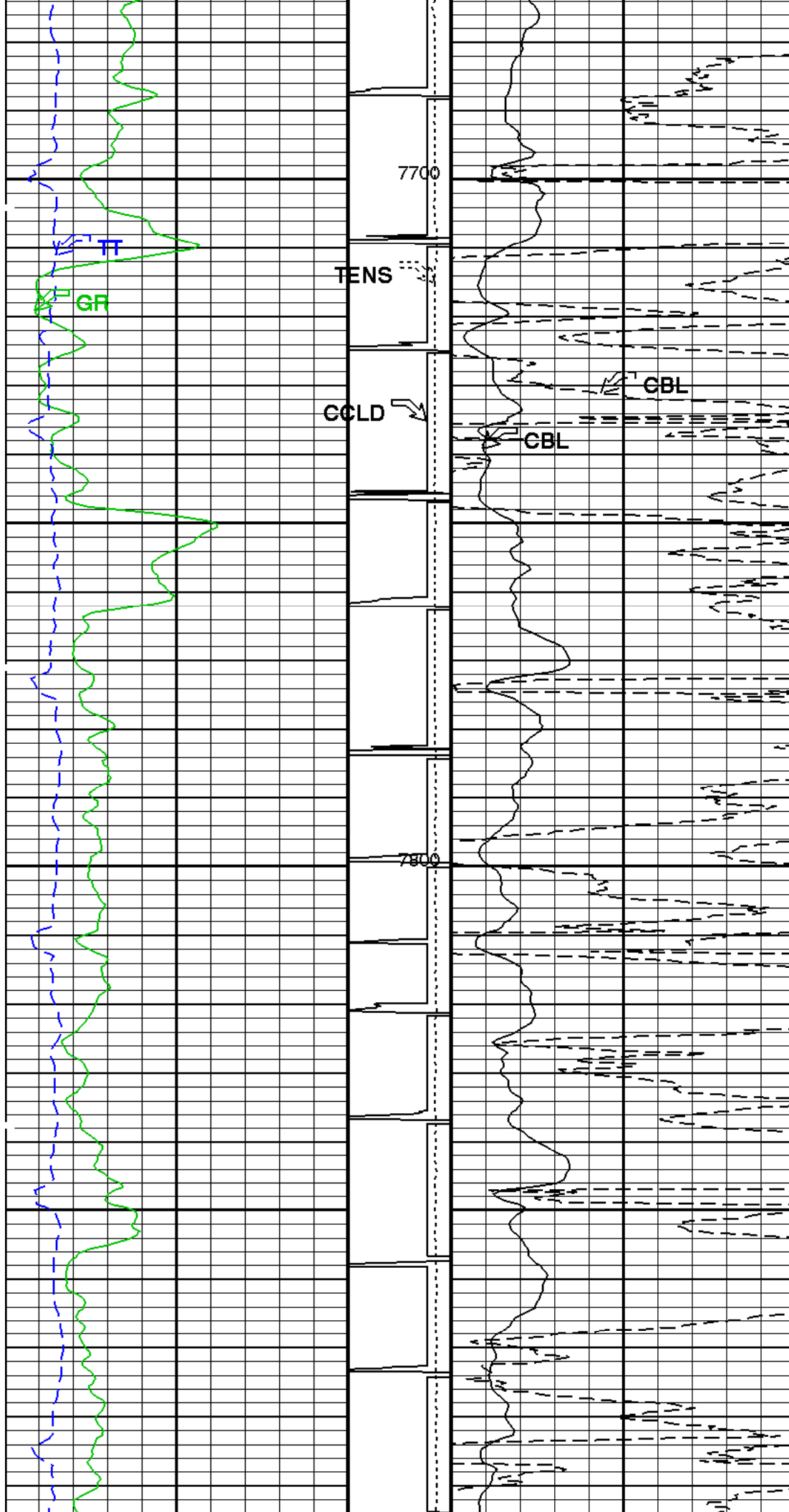


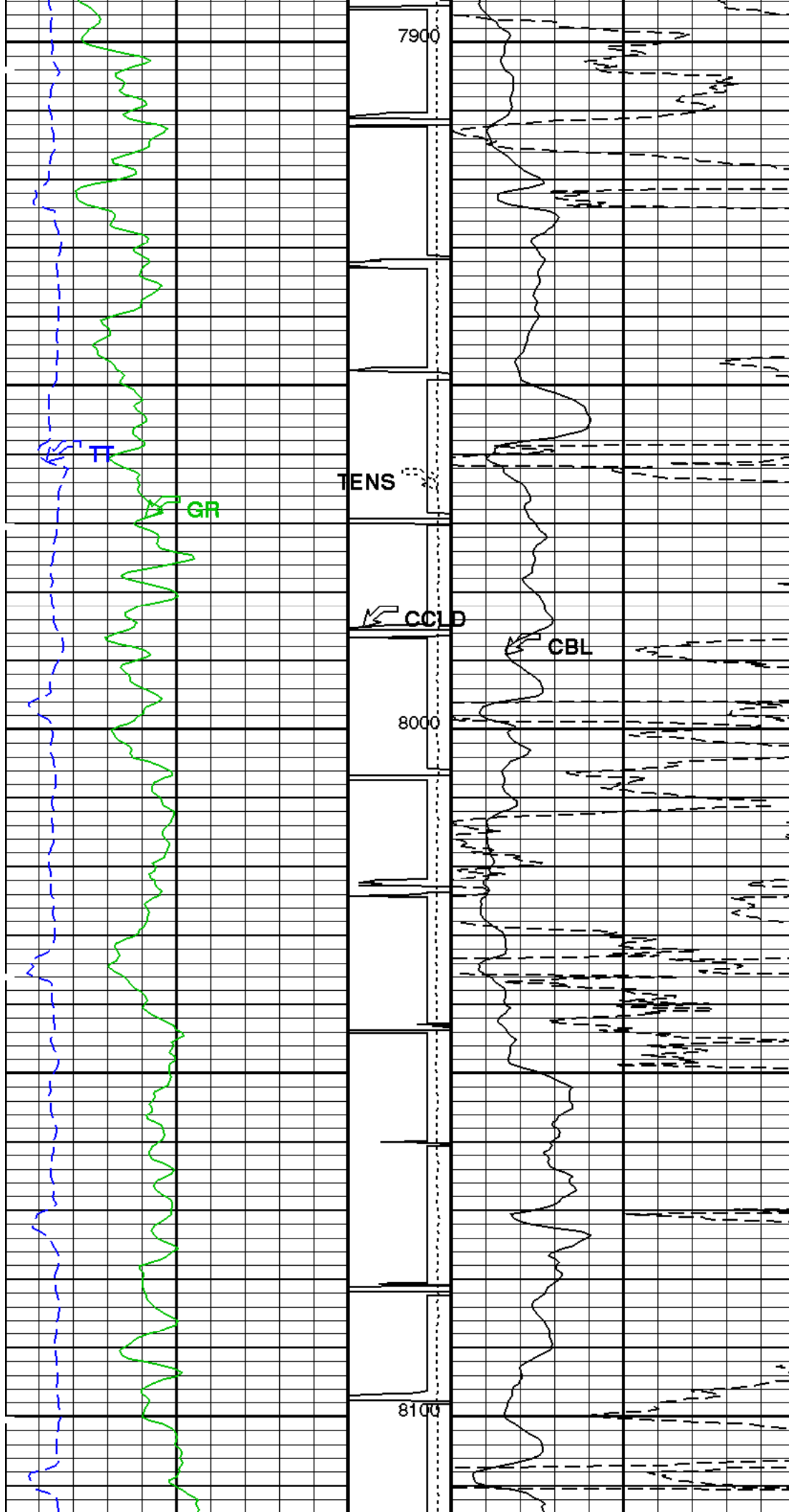


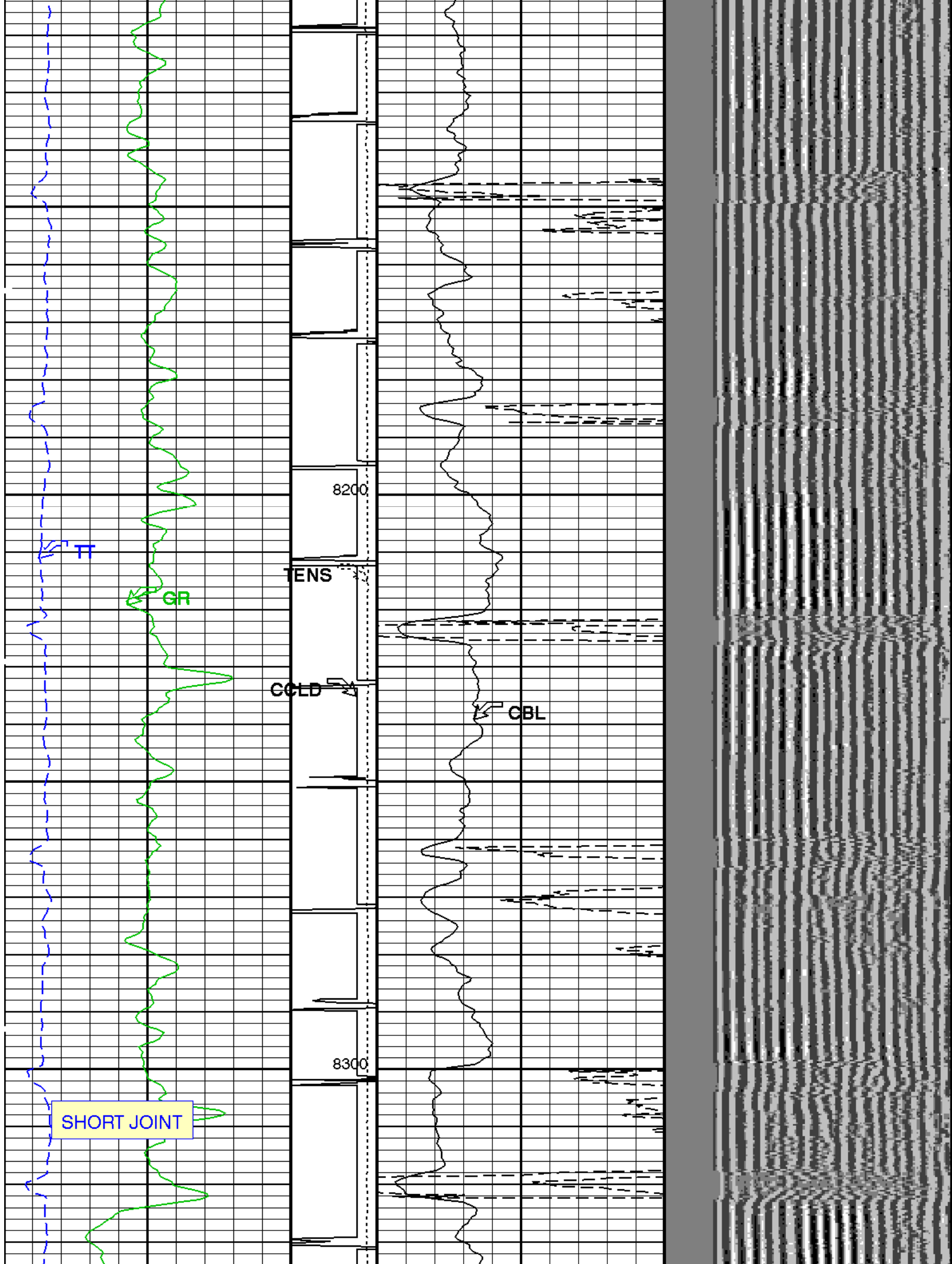


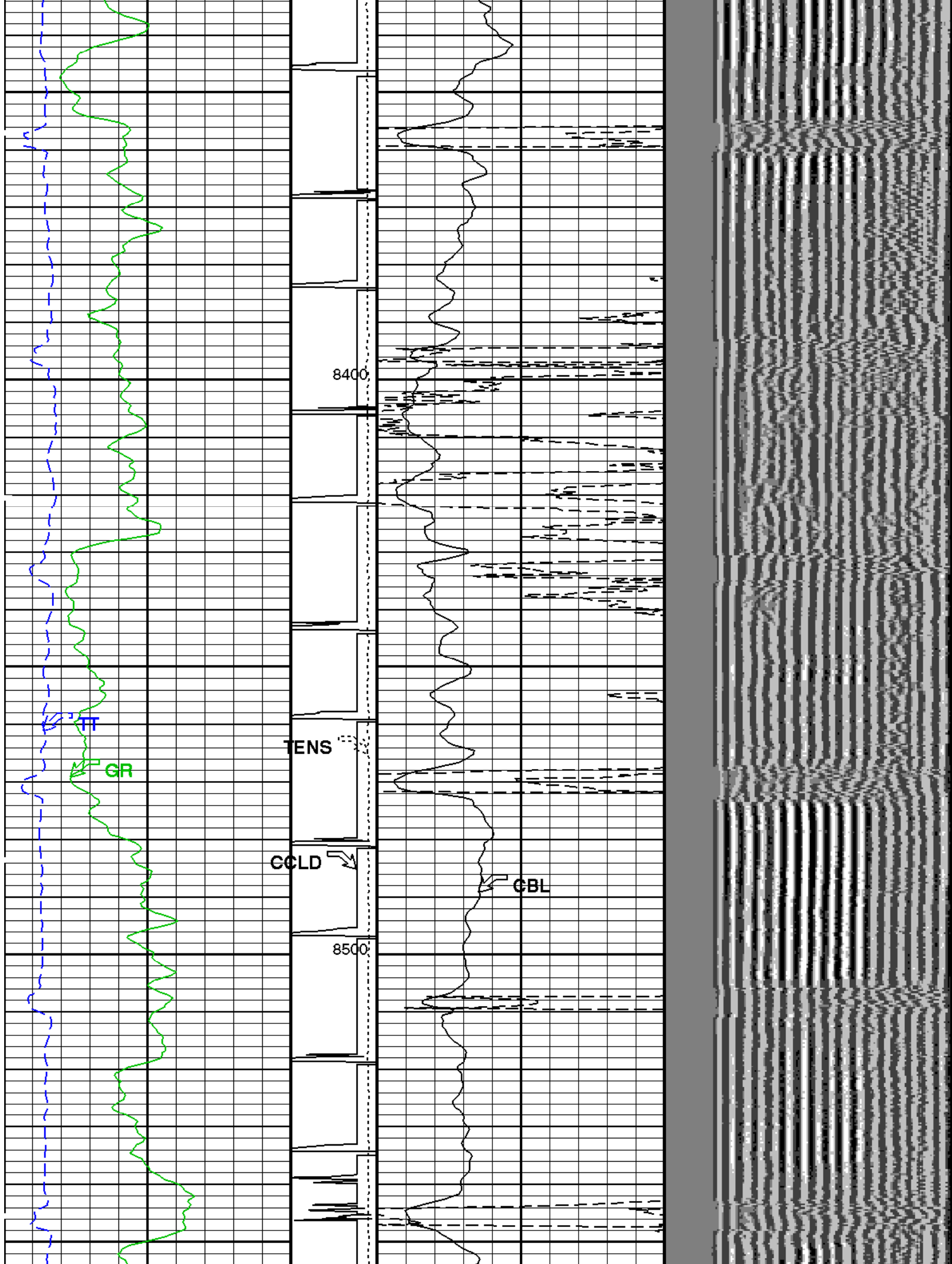


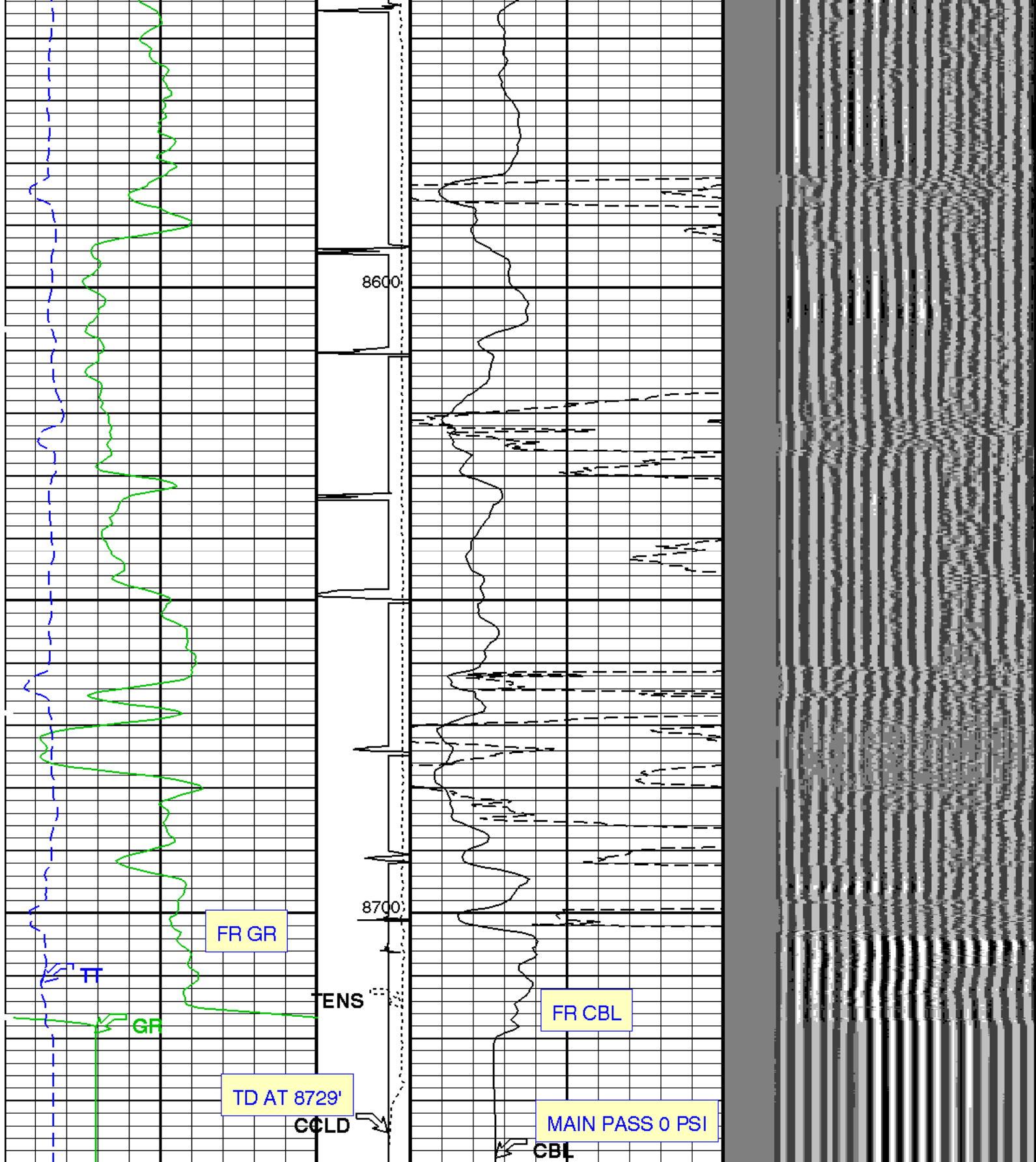












<p>Gamma Ray (GR) (GAPI)</p> <p>0 150</p>	<p>Tension (TENS) (LBF)</p> <p>0 3500</p>	<p>CBL Amplitude (CBL) (MV)</p> <p>0 100</p>	<p>Min Amplitude Max</p> <p>VDL VariableDensity (VDL) (US)</p> <p>200 1200</p>
<p>Transit Time (TT) (US)</p> <p>280 180</p>	<p>Discriminat ed CCL (CCLD)</p> <p>3 (V) -1</p>	<p>CBL Amplitude (CBL) (MV)</p> <p>0 10</p>	

OP System Version: 16C0-147

MCM

SCMT-CB

SRPC-3590-MAR_2008_OP16_b

PSPT-A/B

SRPC-3590-MAR_2008_OP16_b

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8255		
Current Casing Size	5.50000 IN		
Casing Weight	17.0 LB/F		
Expected CBL Amplitude in Free Pipe Section	71 MV	Minimum Sonic Amplitude	1.14425 MV (100% Cement) 2.61257 MV (80% Cement)
		MAP Minimum Sonic Amplitude	7.26080 MV (100% Cement) 12.2684 MV (80% Cement)
Master Calibration (Normalization)		Before Calibration (Adjustment)	
Date of Master Calibration	14-JUL-2007		
CBL Correction Factor	0.0887921	CBL Adjustment Factor (CBAF)	1.0
MAP 1 Correction Factor	0.125288	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.132590		
MAP 3 Correction Factor	0.166325		
MAP 4 Correction Factor	0.156888		
MAP 5 Correction Factor	0.114243		
MAP 6 Correction Factor	0.144488		
MAP 7 Correction Factor	0.158394		
MAP 8 Correction Factor	0.108674		

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	243.137	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	357.137	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	71	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	0.306128	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	2.61257	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	186.137	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	13.848	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	4.75	FT
MMSA	MAP Minimum Sonic Amplitude	7.2608	MV
MSA	Minimum Sonic Amplitude	1.14425	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	5.500	IN
CWEI	Casing Weight	17.00	LB/F
DFD	Drilling Fluid Density	8.35	LB/G
DO	Depth Offset for Playback	-1.0	FT
DP	Playhead Position	NORM	

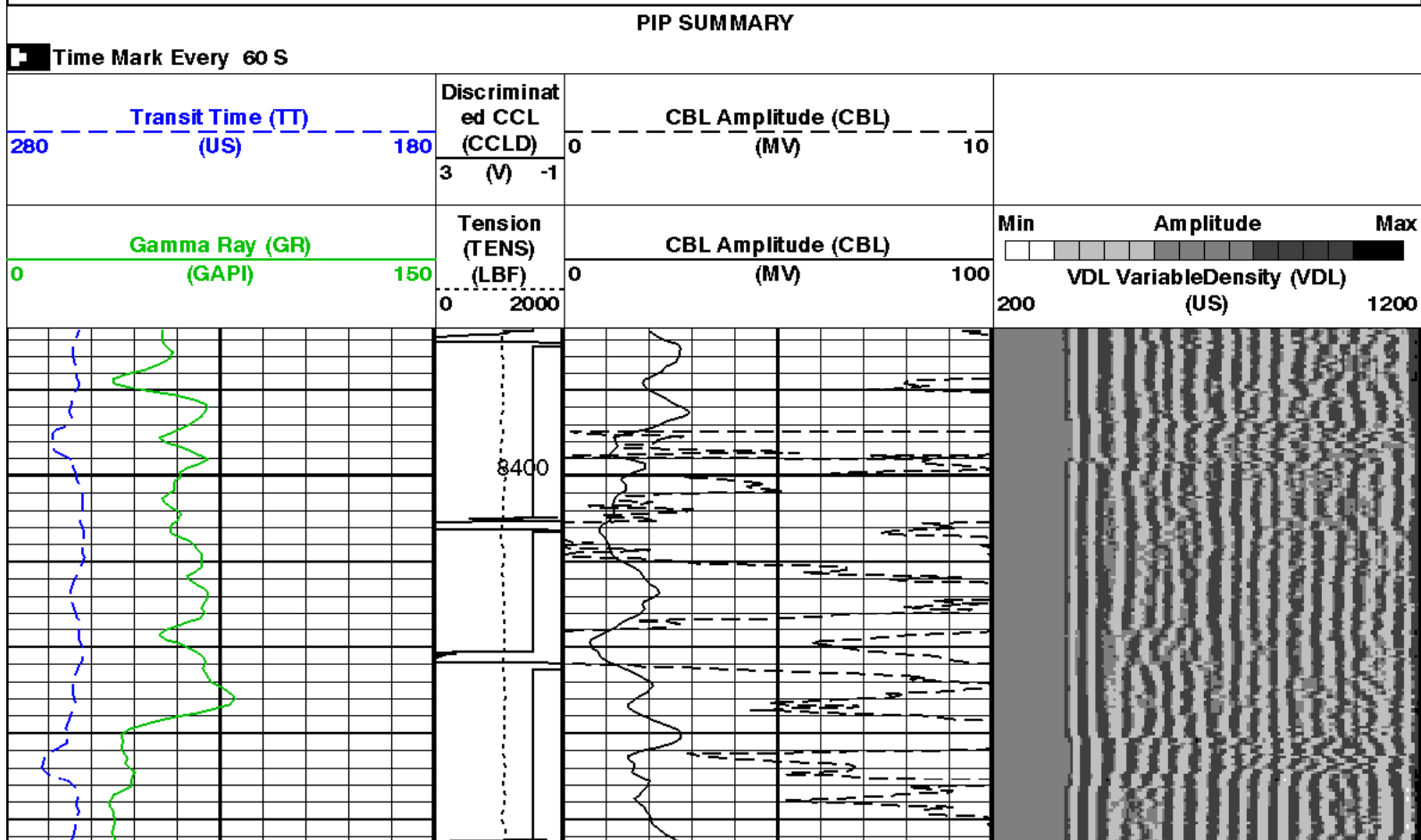
PP TD	Playback Processing Total Depth	NORMAL 8729 FT				
Input DLIS Files						
DEFAULT	SCMT_PSP_013LUP	FN:12	PRODUCER	17-Mar-2008 10:00	8741.5 FT	192.0 FT
Output DLIS Files						
DEFAULT	SCMT_PSP_016PUP	FN:15	PRODUCER	17-Mar-2008 12:07		

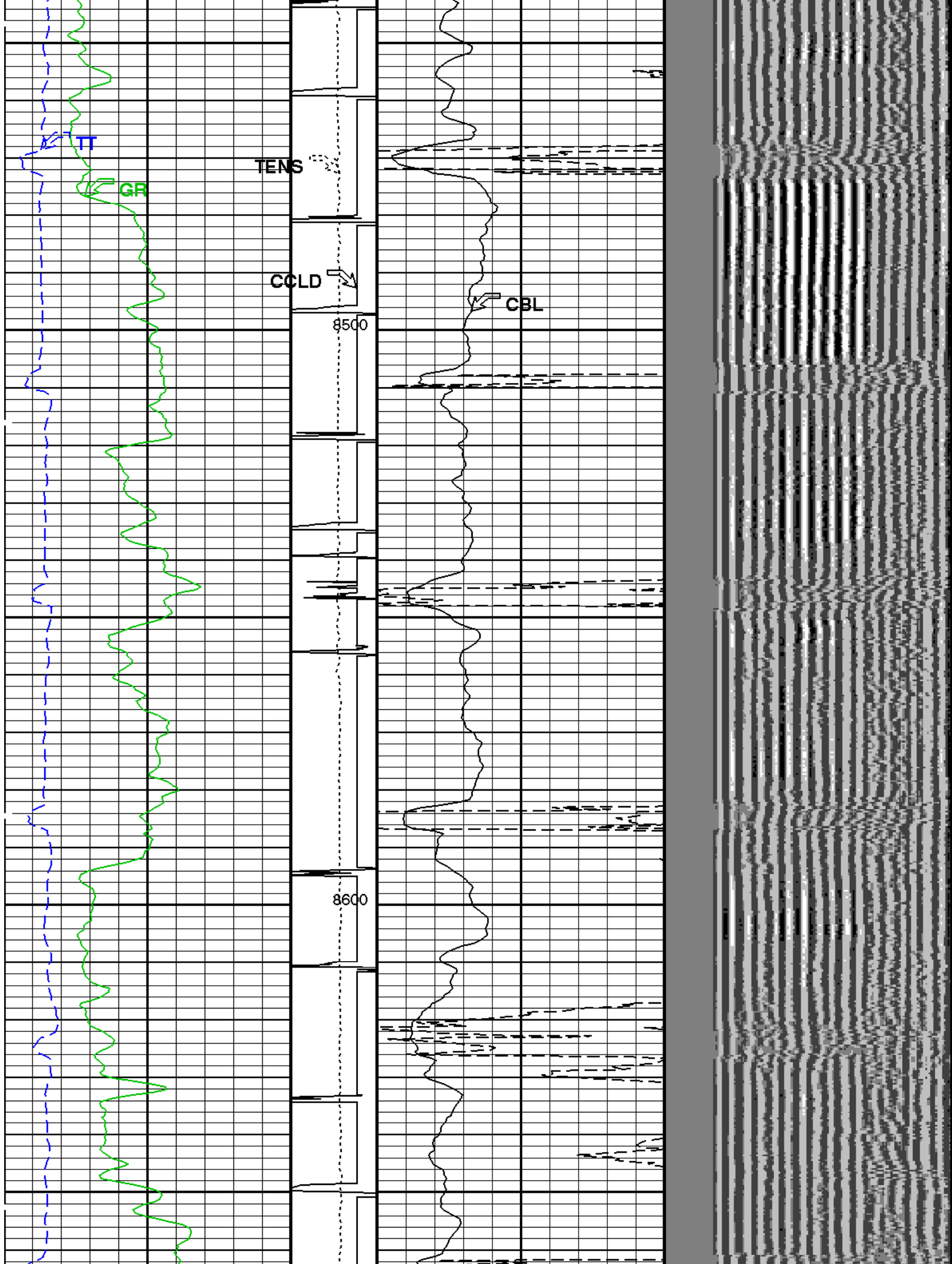
Schlumberger

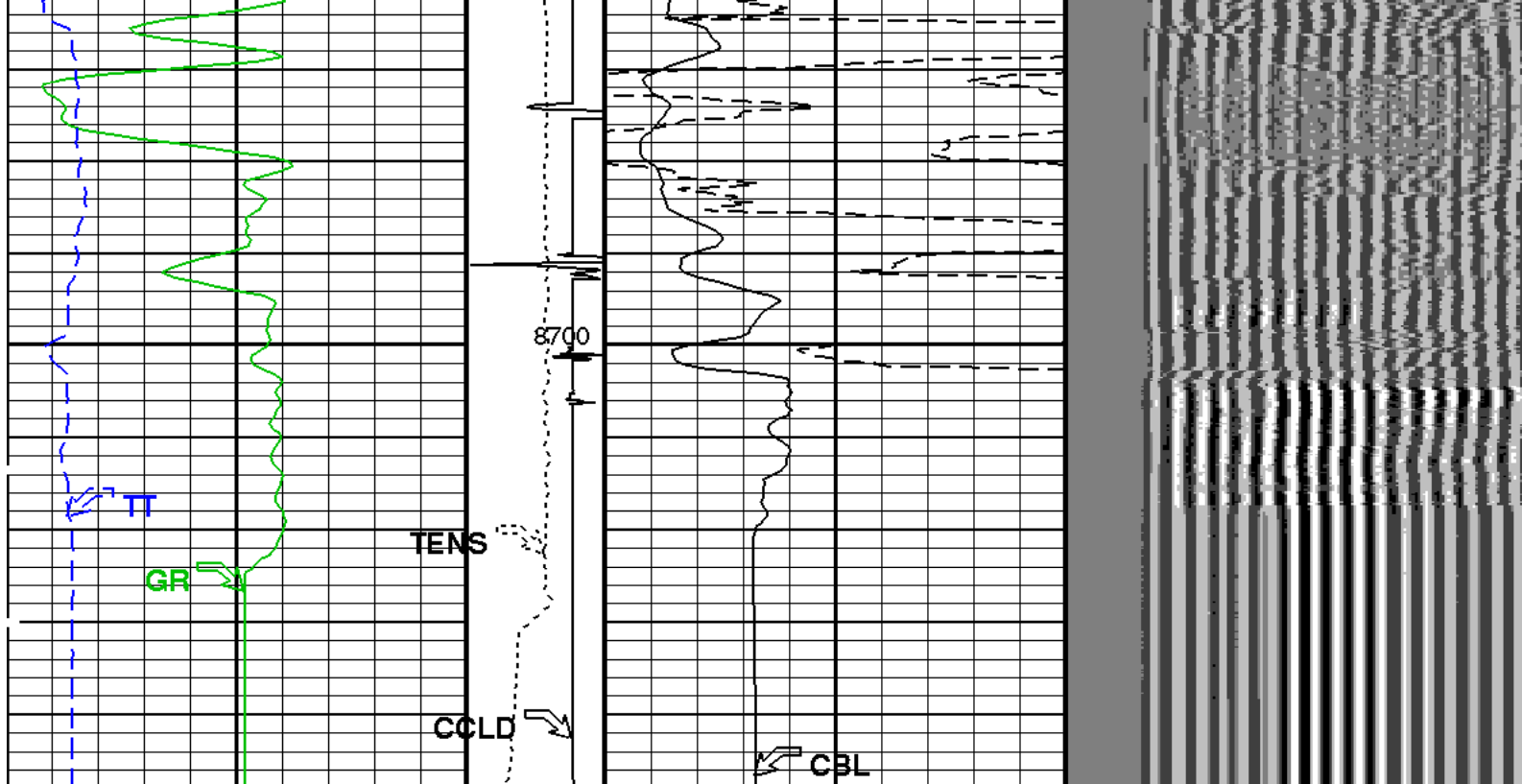
REPEAT PASS 0 PSI

MAXIS Field Log

Company: ANTERO RESOURCES CORP.				Well: NORCROSS A-11		
Input DLIS Files						
DEFAULT	SCMT_PSP_010LUP	FN:9	PRODUCER	17-Mar-2008 09:45	8745.0 FT	8379.5 FT
Output DLIS Files						
DEFAULT	SCMT_PSP_012PUP	FN:11	PRODUCER	17-Mar-2008 09:56	8748.0 FT	8382.5 FT
OP System Version: 16C0-147						
MCM						
SCMT-CB	SRPC-3590-MAR_2008_OP16_b	PSPT-A/B		SRPC-3590-MAR_2008_OP16_b		







Gamma Ray (GR) (GAPI)	Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)	Min Amplitude Max VDL Variable Density (VDL) (US)
0 150	0 2000	0 100	200 1200
Transit Time (TT) (US)	Discriminated CCL (CCLD) (V)	CBL Amplitude (CBL) (MV)	
280 180	3 -1	0 10	

PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100'

Graphics File Created: 17-Mar-2008 09:56

OP System Version: 16C0-147 MCM

SCMT-CB SRPC-3590-MAR_2008_OP16_b PSPT-A/B SRPC-3590-MAR_2008_OP16_b

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8255		
Current Casing Size	5.50000 IN		
Casing Weight	17.0 LB/F		
Expected CBL Amplitude in Free Pipe Section	71 MV	Minimum Sonic Amplitude	1.14425 MV (100% Cement) 2.61257 MV (80% Cement)
		MAP Minimum Sonic Amplitude	7.26080 MV (100% Cement) 12.2684 MV (80% Cement)

Master Calibration (Normalization)

Before Calibration (Adjustment)

Date of Master Calibration	14-JUL-2007		
CBL Correction Factor	0.0887921	CBL Adjustment Factor (CBAF)	1.0
MAP 1 Correction Factor	0.125288	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.132590		
MAP 3 Correction Factor	0.166325		
MAP 4 Correction Factor	0.156888		
MAP 5 Correction Factor	0.114243		
MAP 6 Correction Factor	0.144400		

MAP 6 Correction Factor 0.144488
MAP 7 Correction Factor 0.158394
MAP 8 Correction Factor 0.108674

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	243.137 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	357.137 US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20 MV
CBLG	CBL Gate Width	40 US
CBRA	CBL LQC Reference Amplitude in Free Pipe	71 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	0.306128 IN
DTF	Delta-T Fluid	204.5 US/F
FATT	Acoustic Attenuation due to Fluid	0 DB/F
FCF	CBL Fluid Compensation Factor	1
GOBO	Good Bond	2.61257 MV
MAPD	SCMT MAP Peak Detection Mode	PEAK
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	186.137 US
MAPT	SCMT MAP Fixed Threshold Level	30 MV
MATT	Maximum Attenuation	13.848 DB/F
MCCF	MAP Cement Type Compensation Factor	1
MCI	Minimum Cemented Interval for Isolation	4.75 FT
MMSA	MAP Minimum Sonic Amplitude	7.2608 MV
MSA	Minimum Sonic Amplitude	1.14425 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	5.500 IN
CWEI	Casing Weight	17.00 LB/F
DFD	Drilling Fluid Density	8.35 LB/G
DO	Depth Offset for Playback	3.0 FT
PP	Playback Processing	NORMAL
TD	Total Depth	8730 FT

Input DLIS Files

DEFAULT SCMT_PSP_010LUP FN:9 PRODUCER 17-Mar-2008 09:45 8745.0 FT 8379.5 FT

Output DLIS Files

DEFAULT SCMT_PSP_012PUP FN:11 PRODUCER 17-Mar-2008 09:56

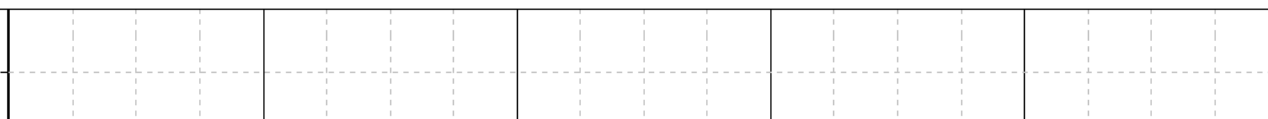
Schlumberger

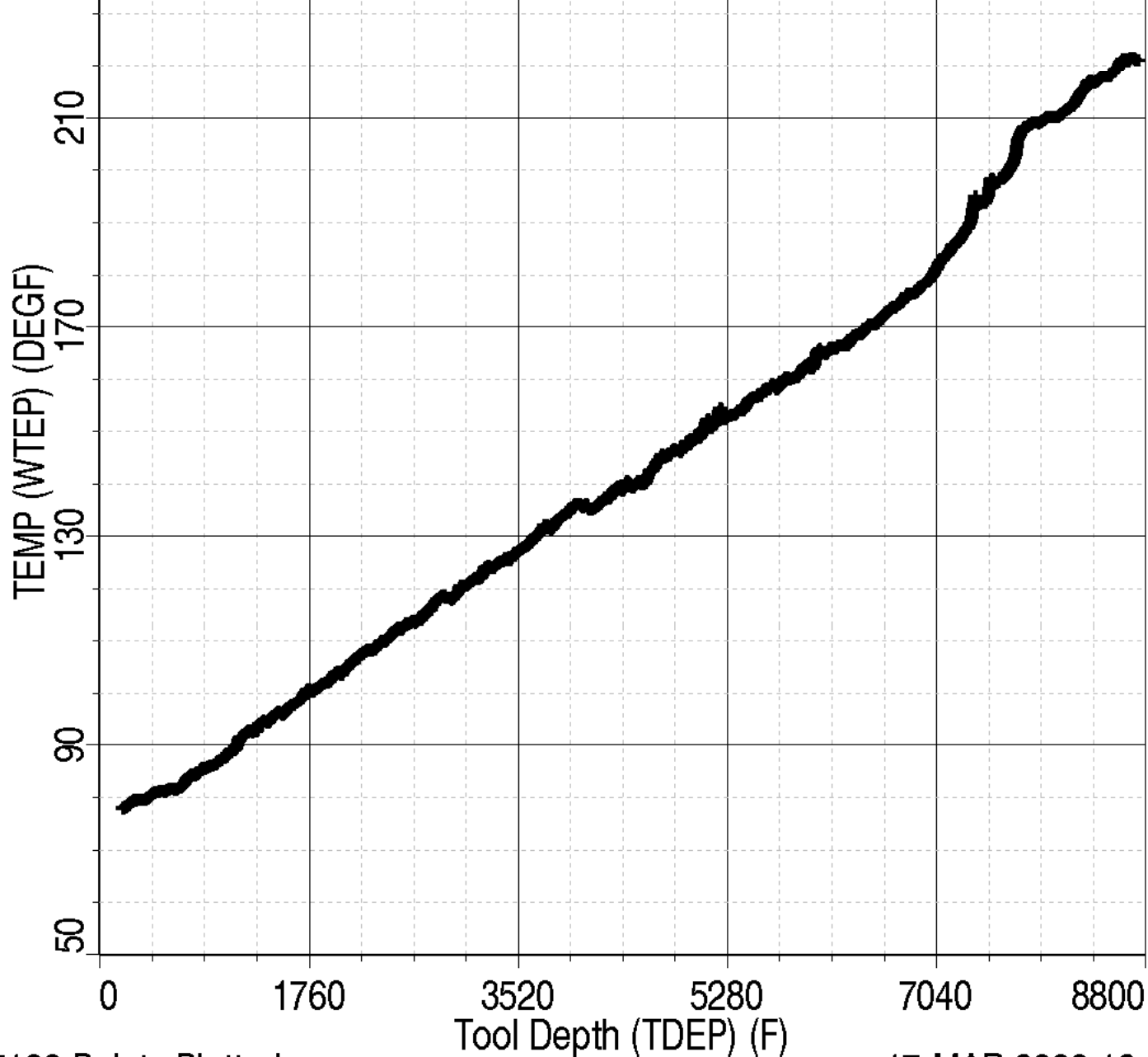
TEMPERATURE PLOT

MAXIS Field Log

Index: 8740.5 - 191.0 FT

250





17100 Points Plotted

17-MAR-2008 12:12

Schlumberger

TEMPERATURE LOG

MAXIS Field Log

Company: ANTERO RESOURCES CORP.

Well: NORCROSS A-11

Input DLIS Files

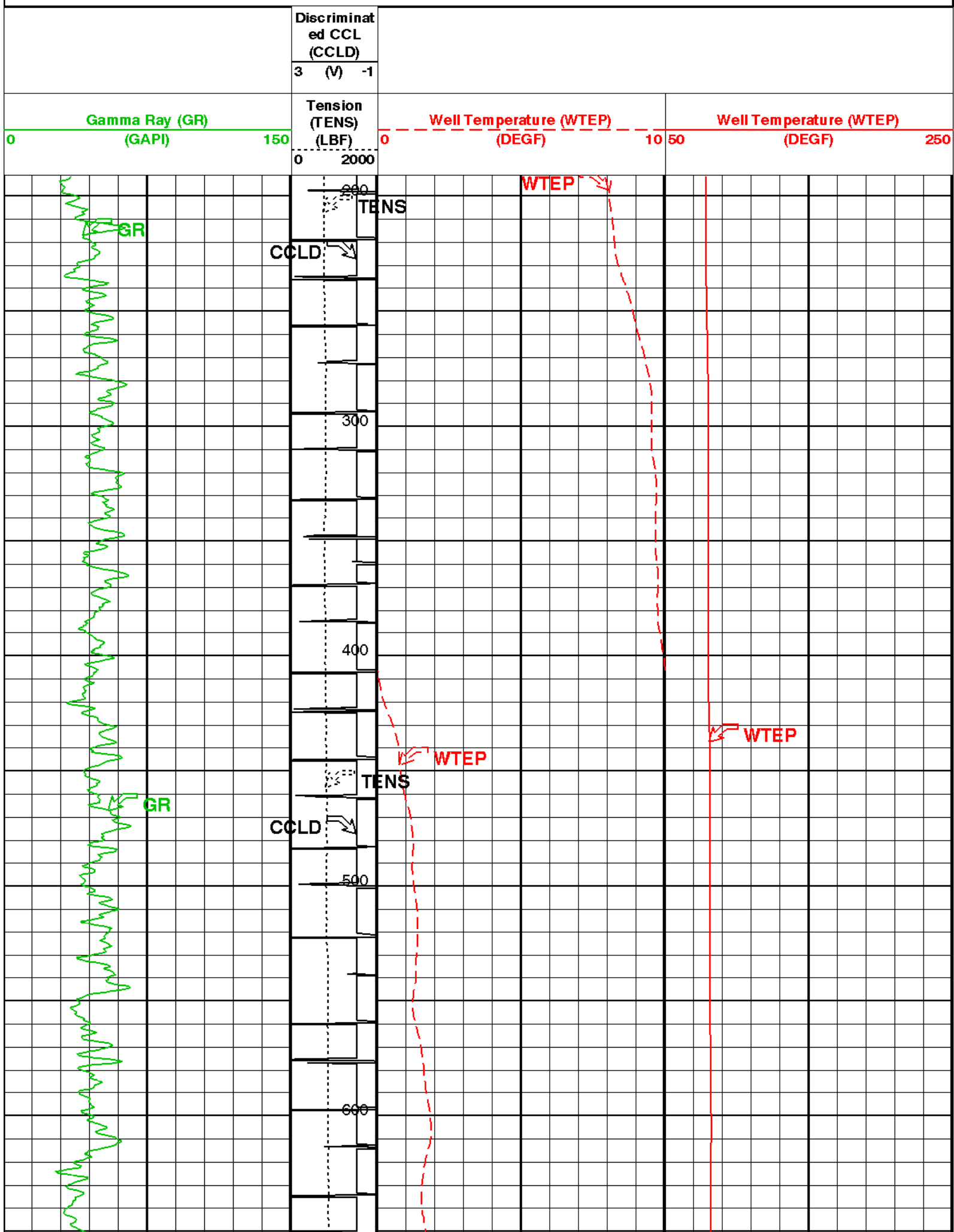
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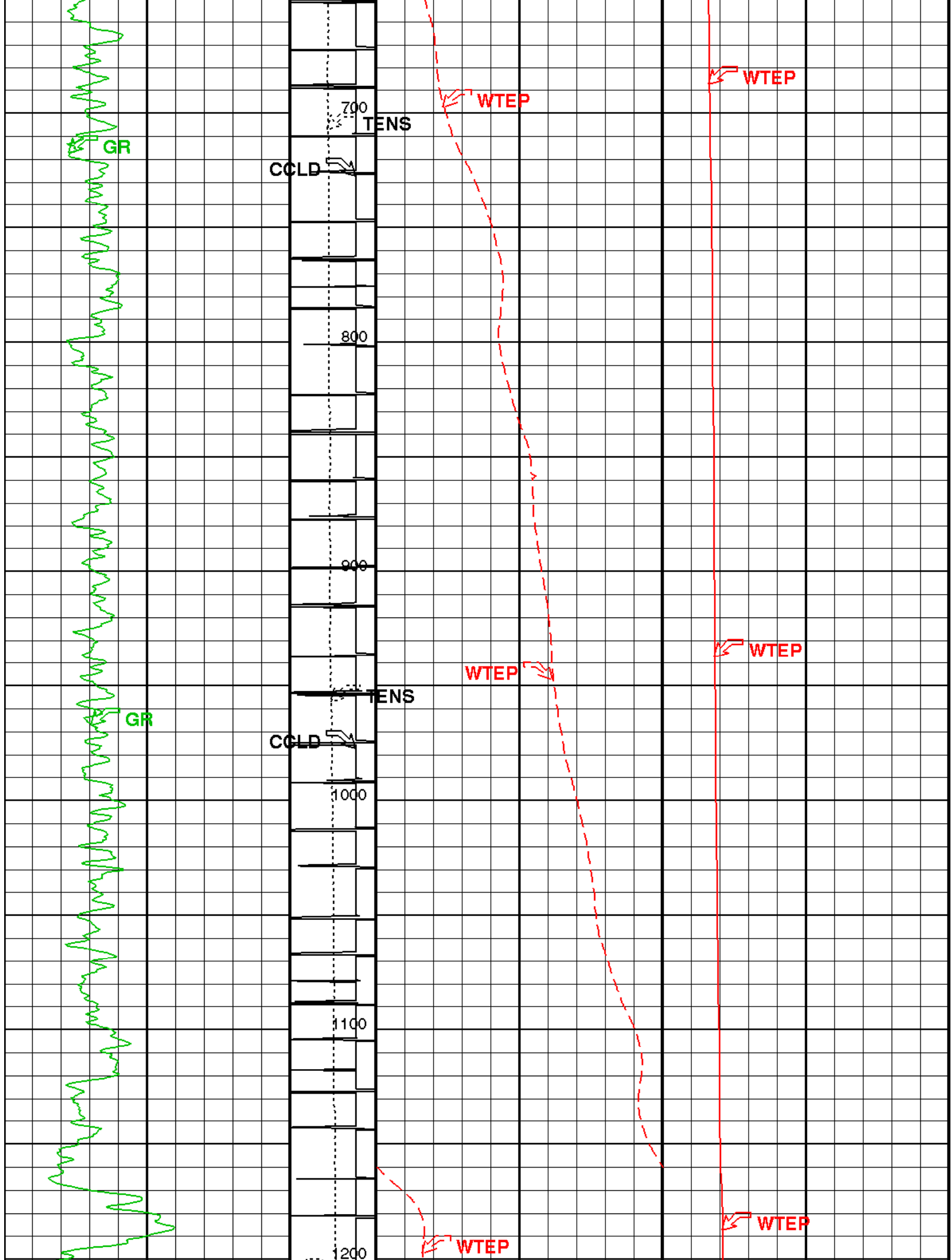
Output DLIS Files

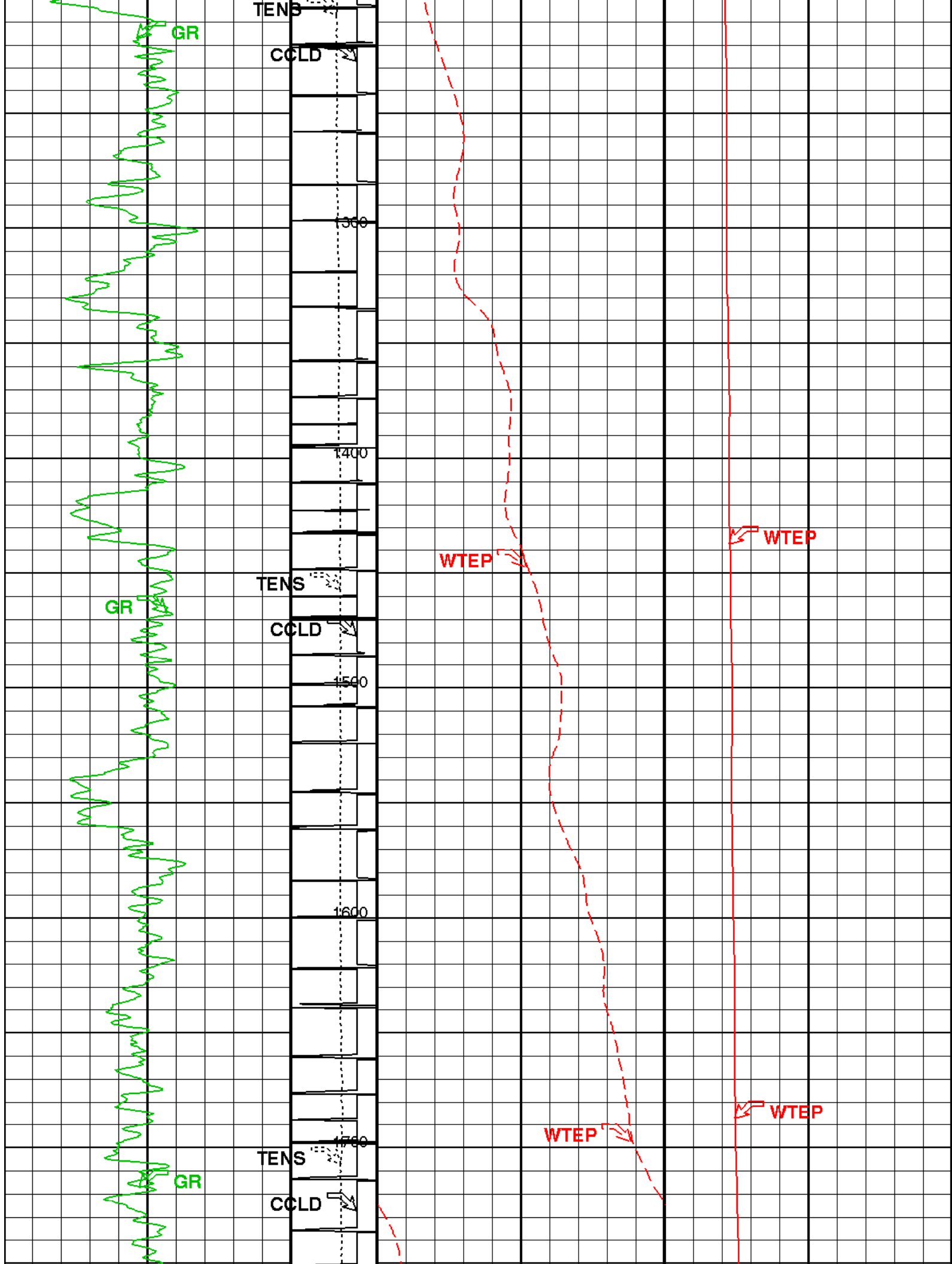
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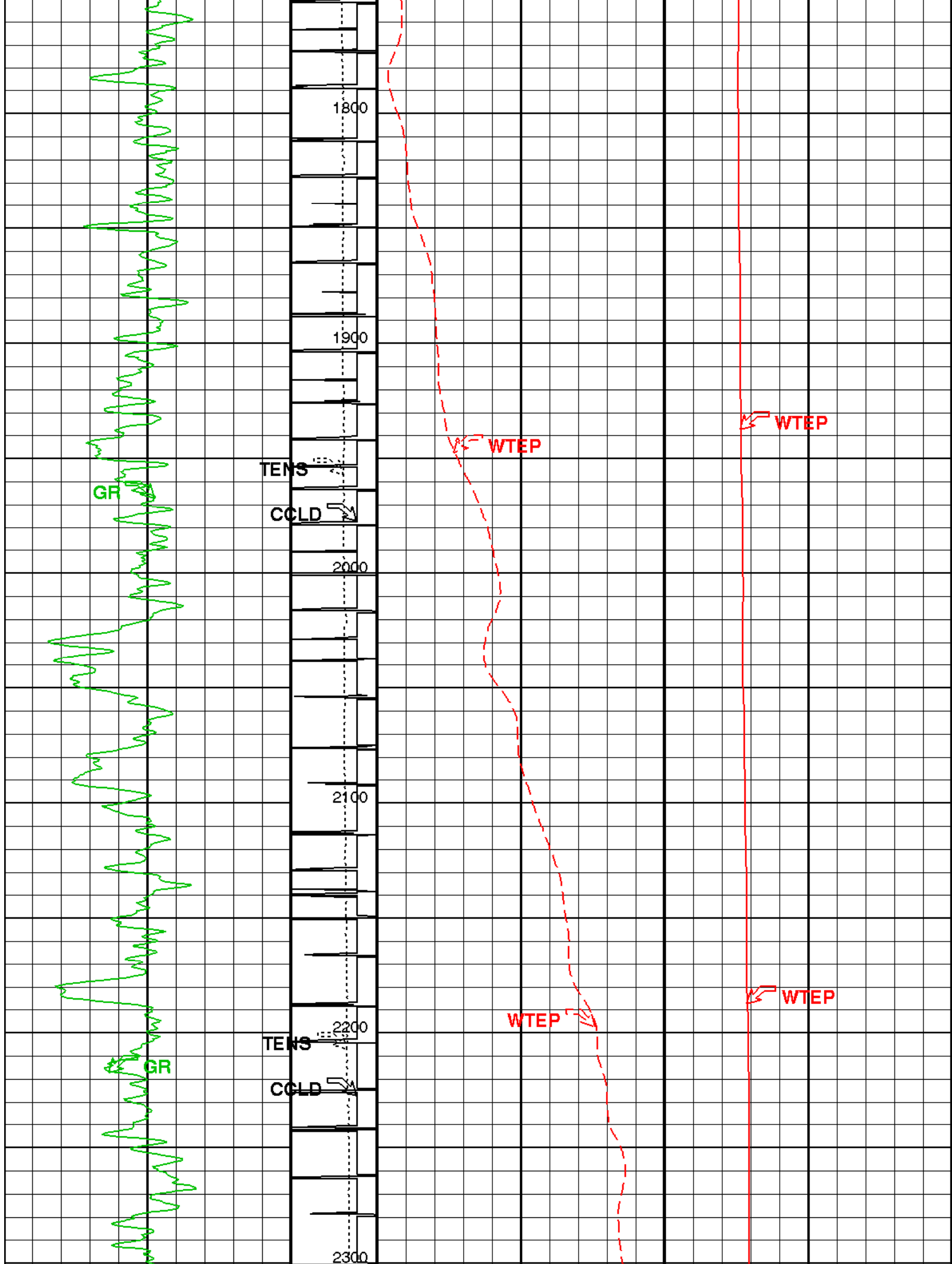
OP System Version: 16C0-147

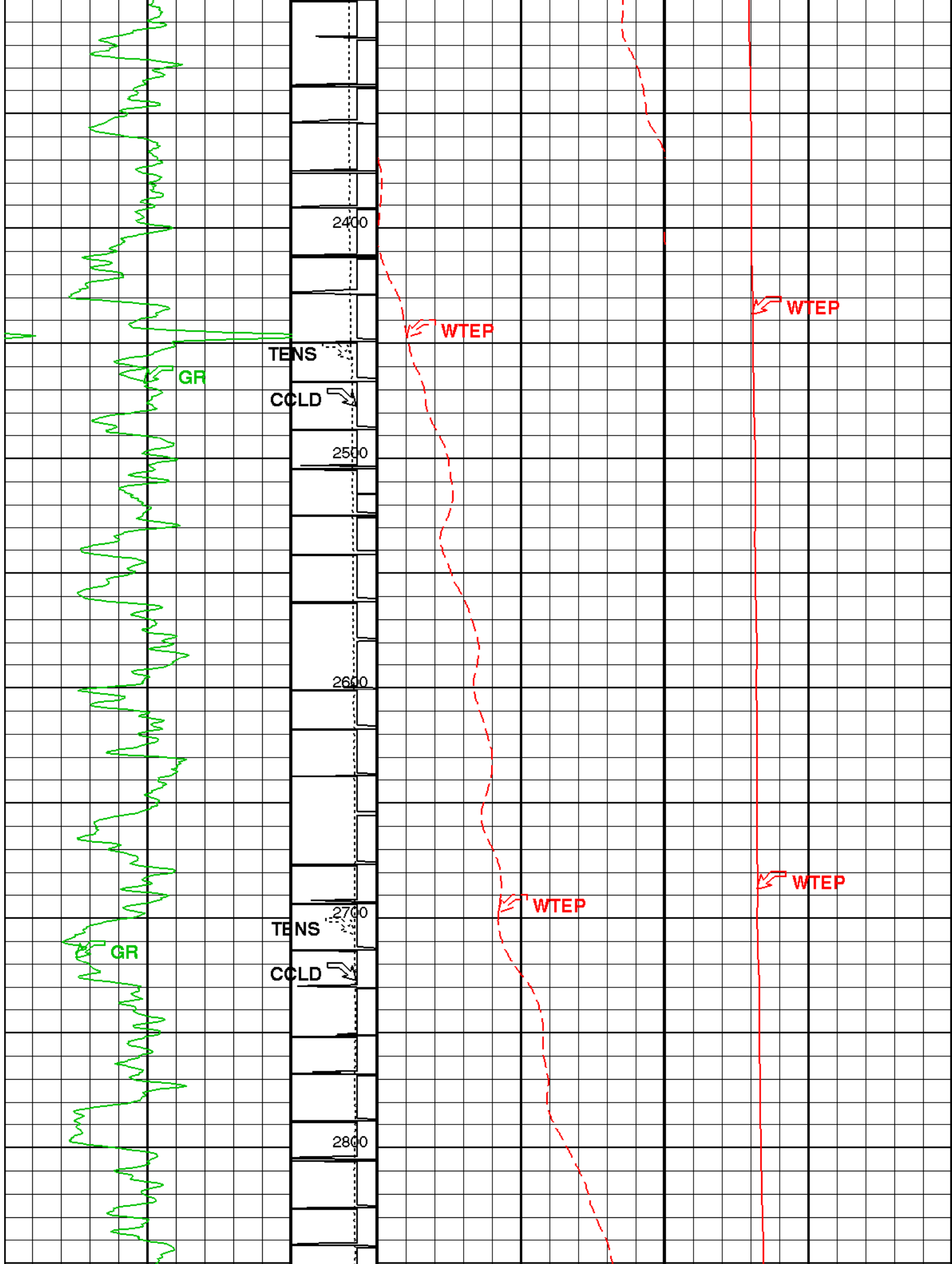
MCM

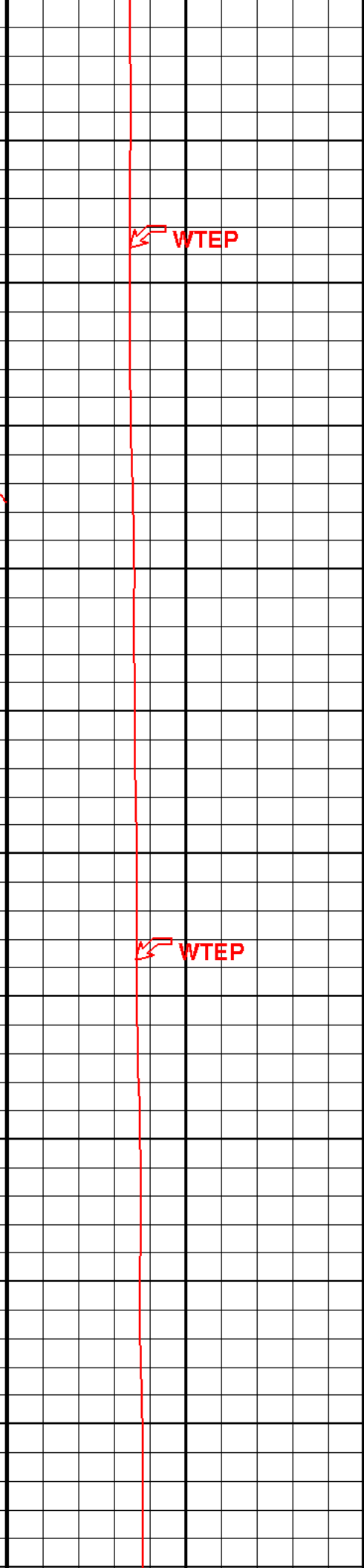
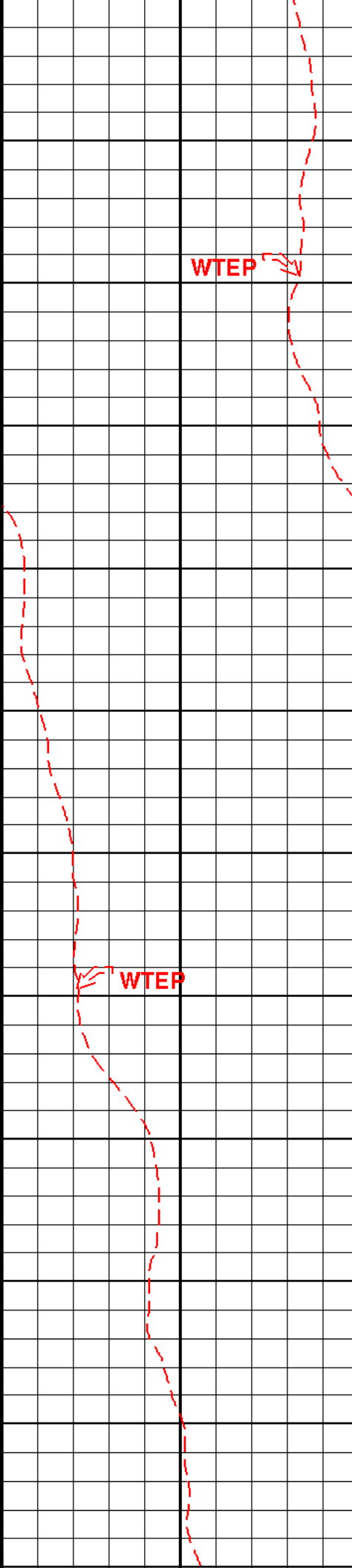
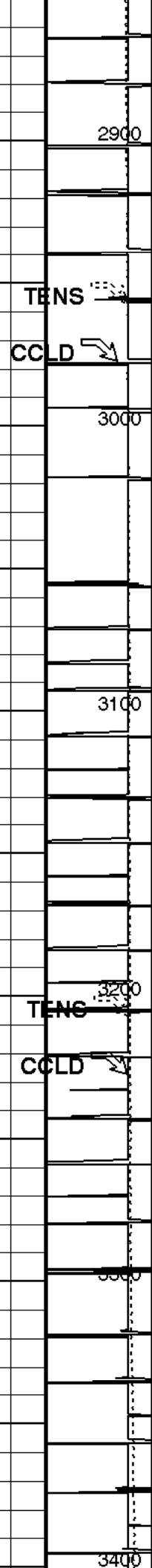
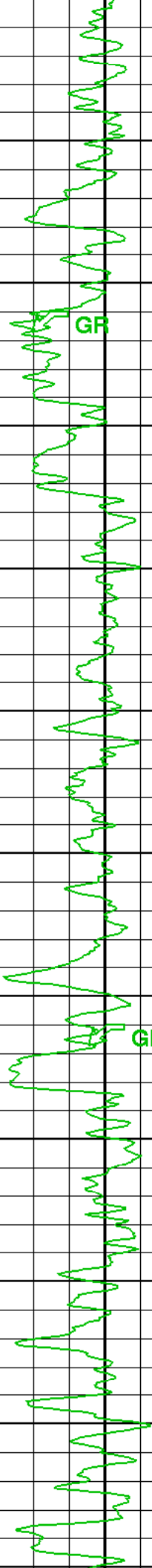










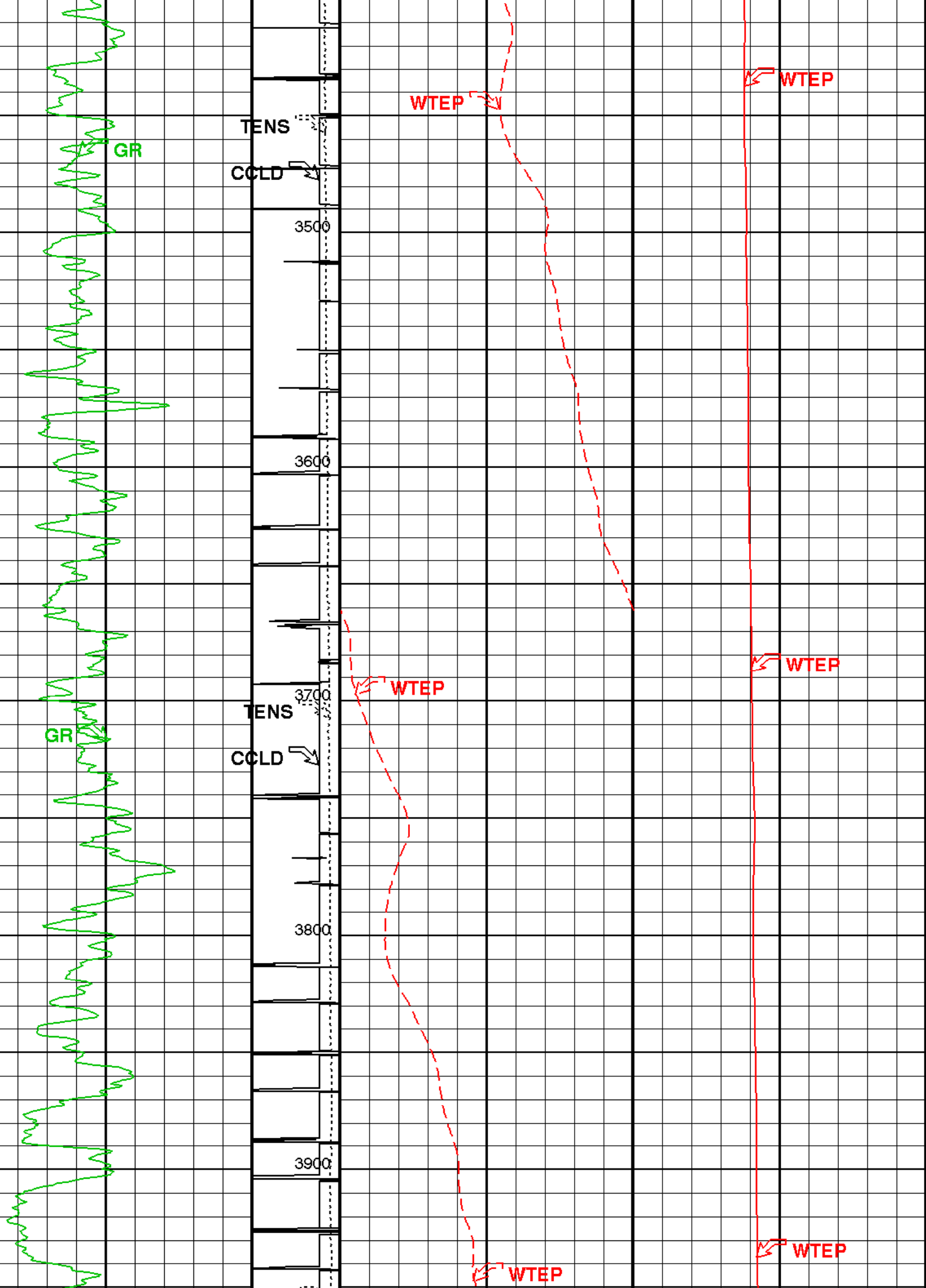


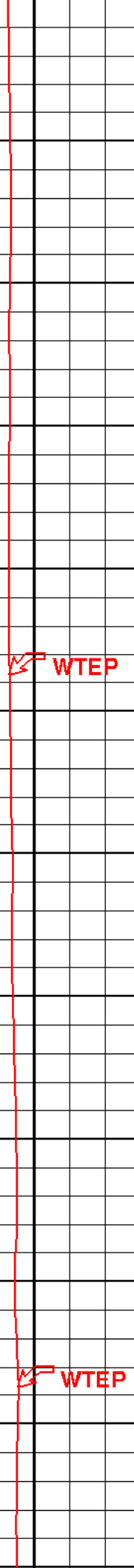
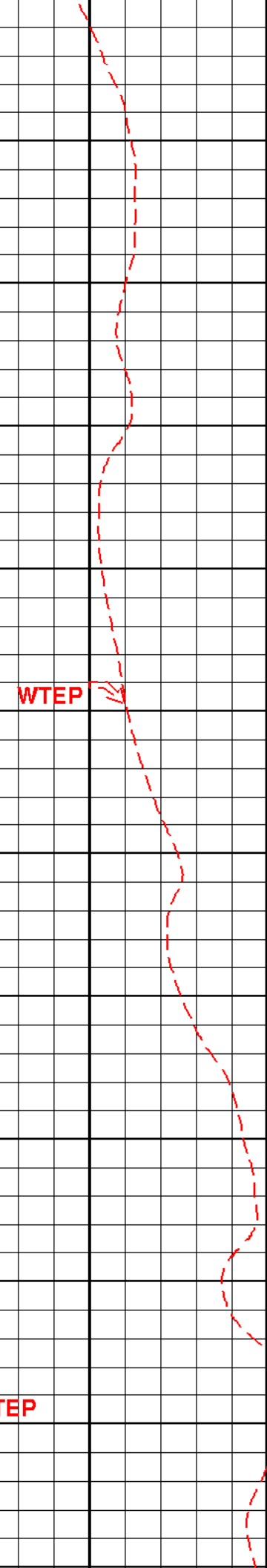
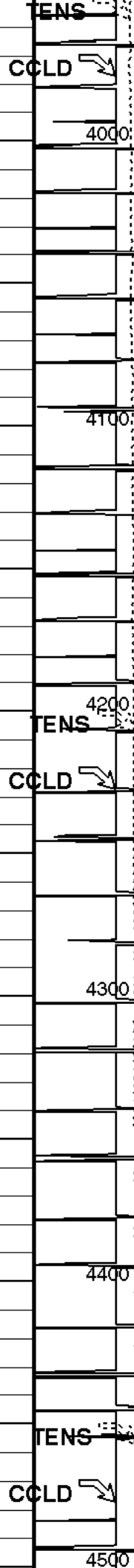
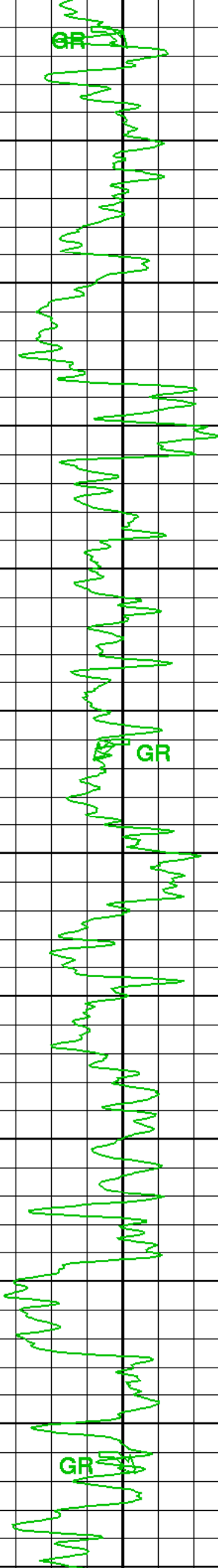
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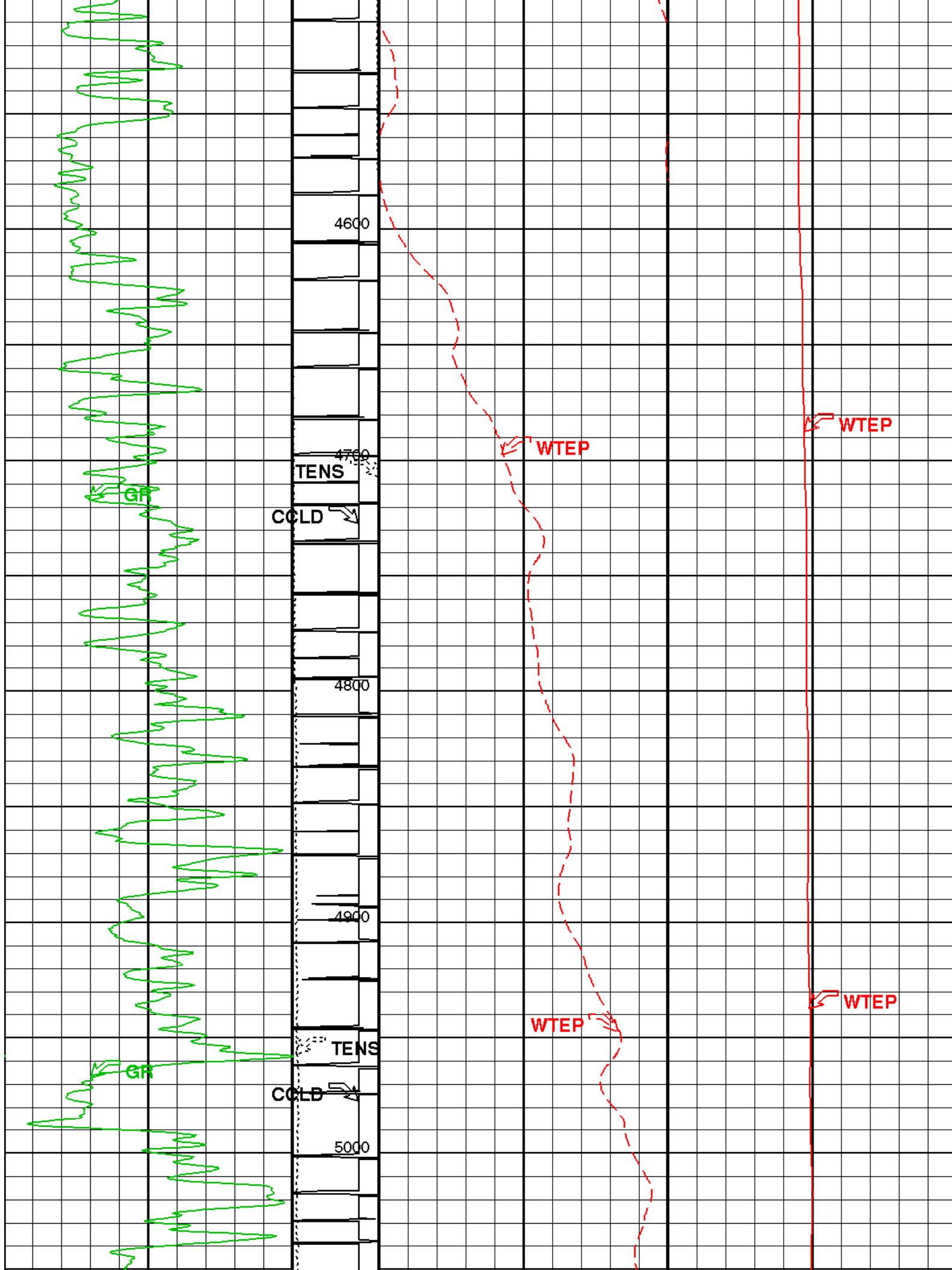
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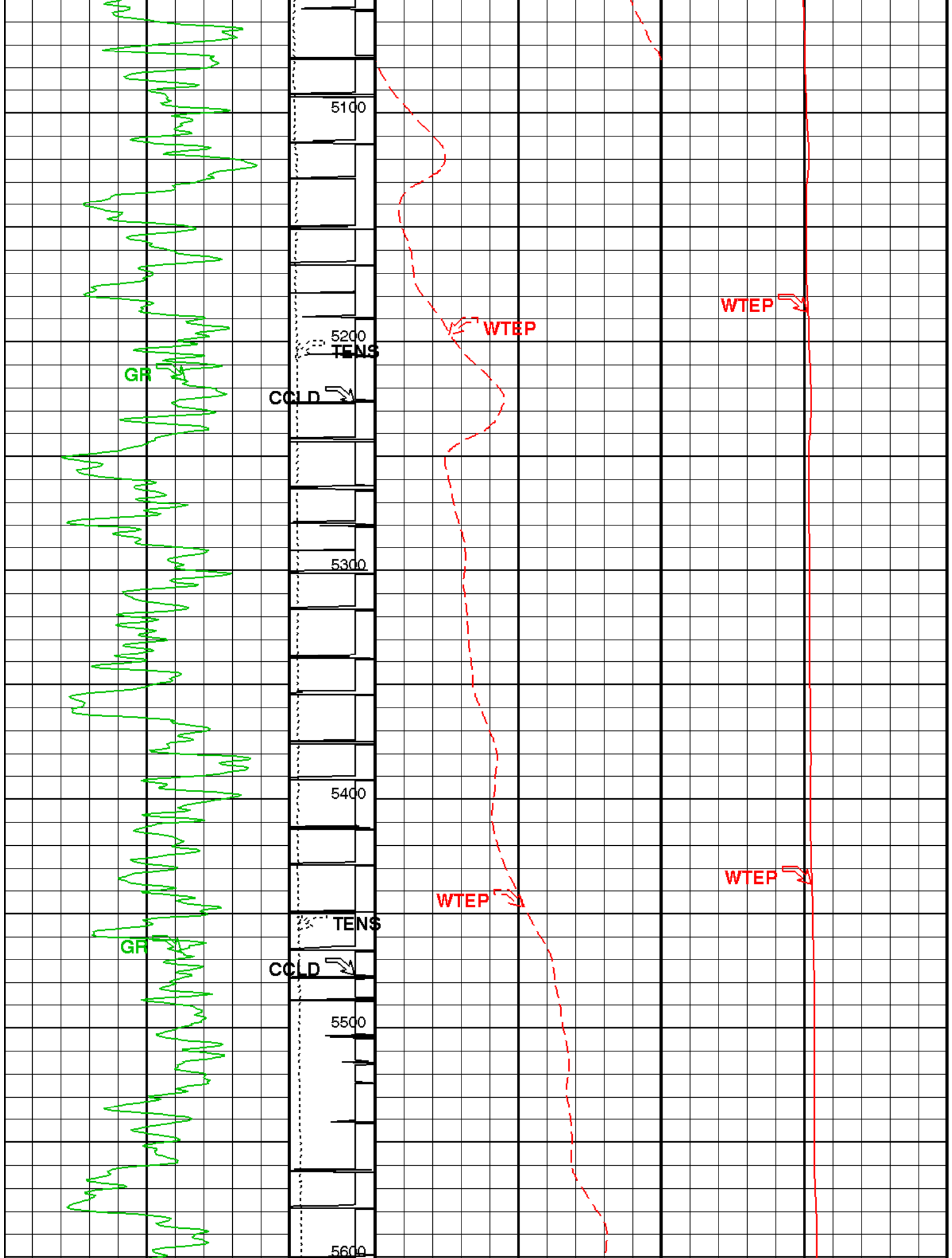
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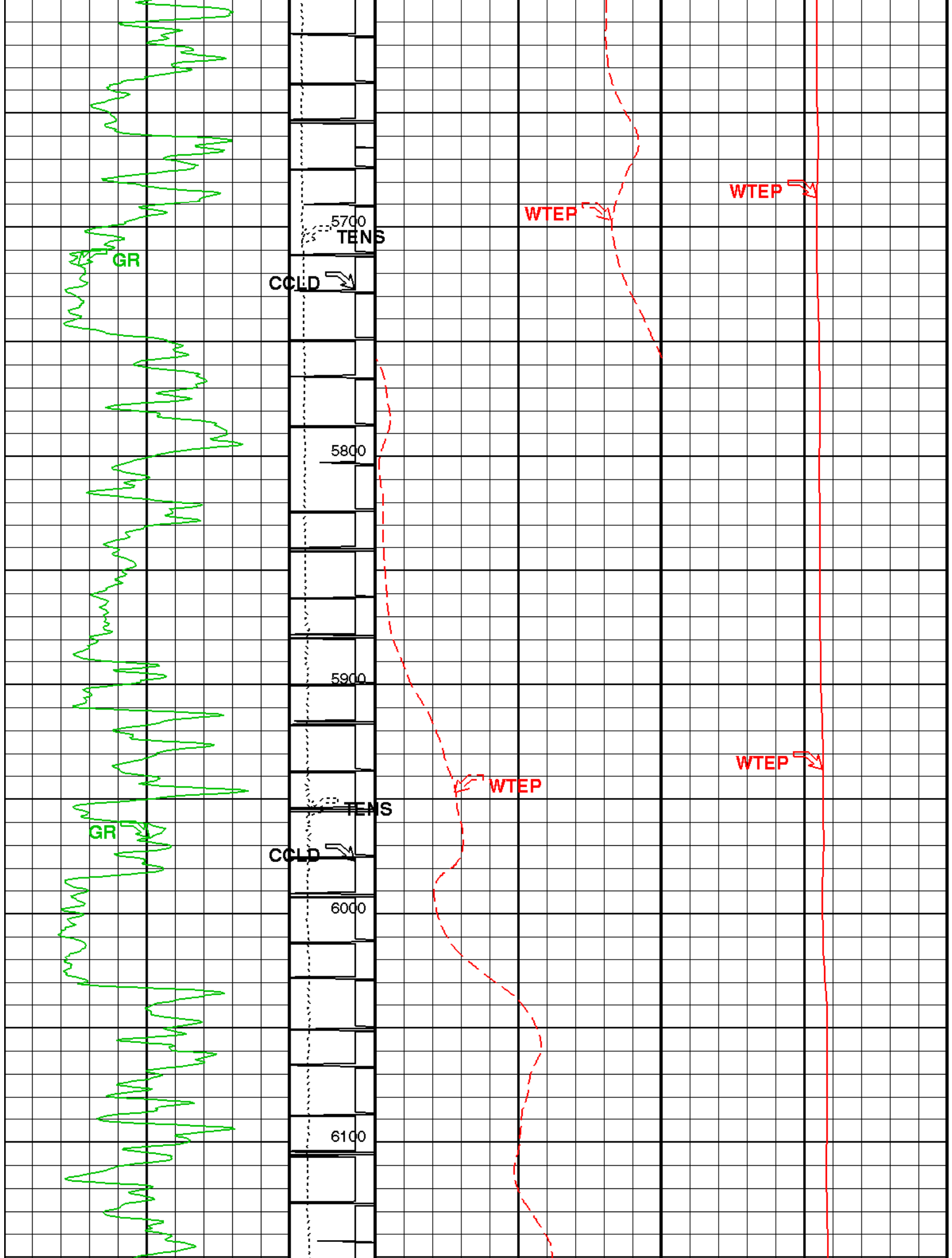
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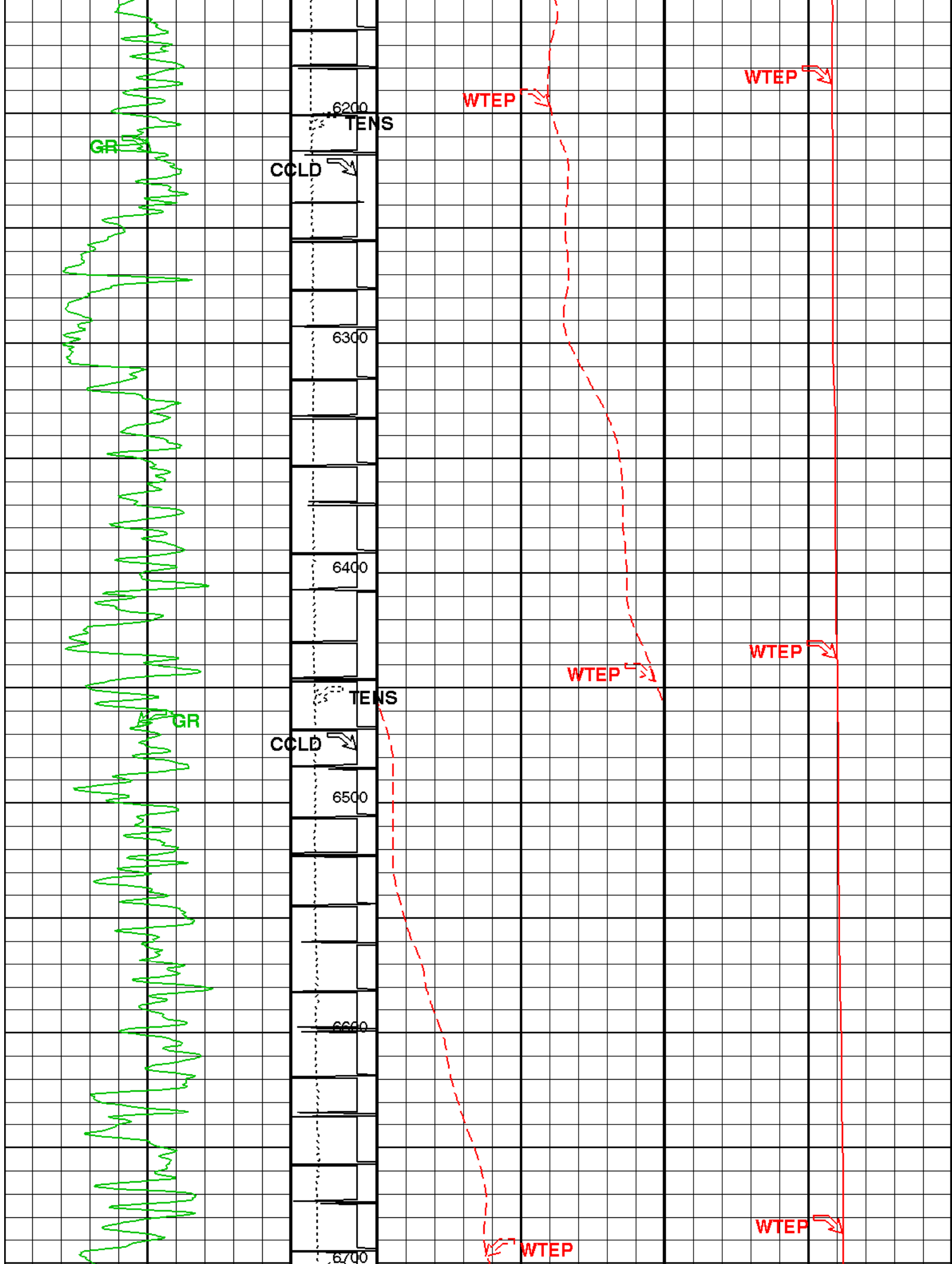


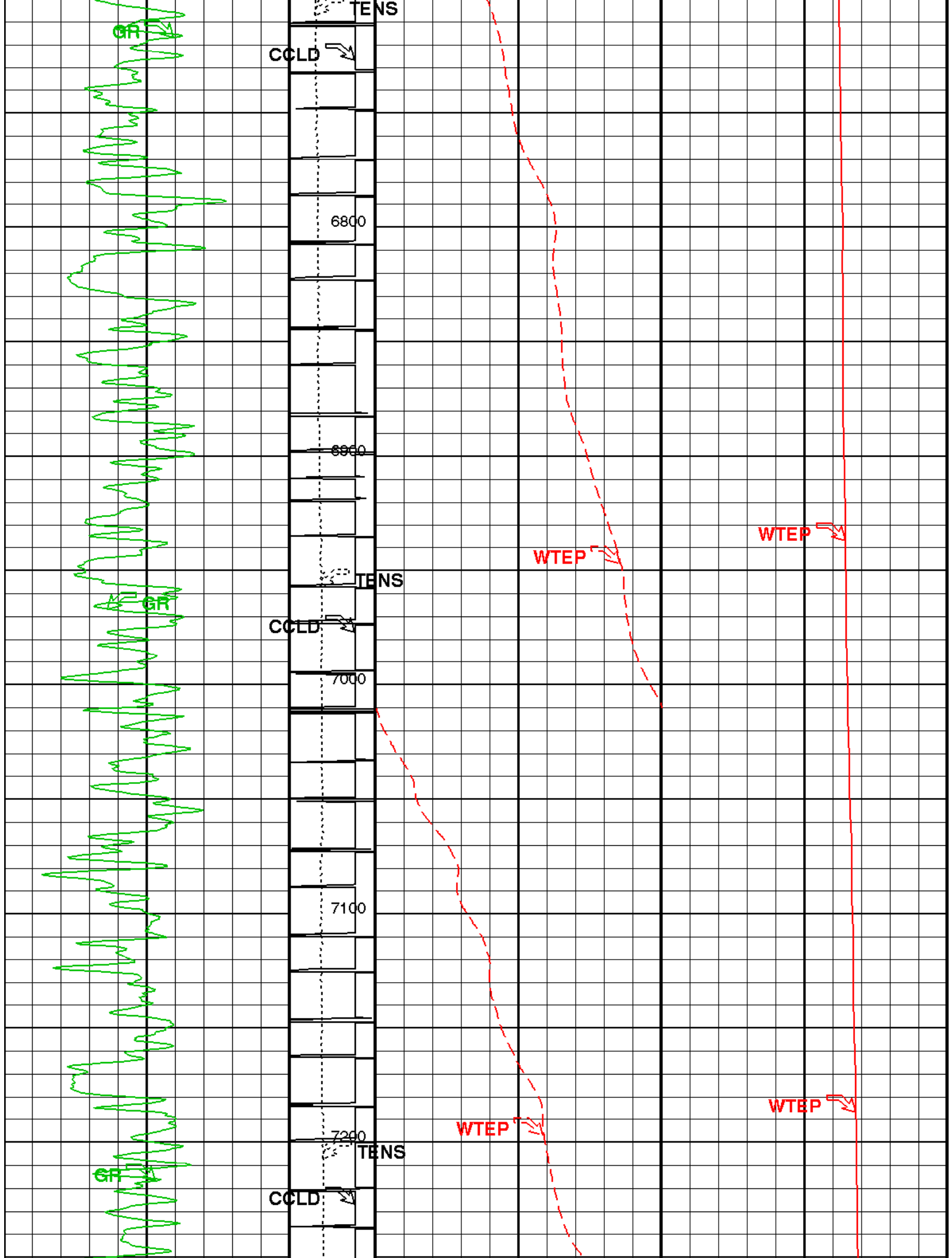


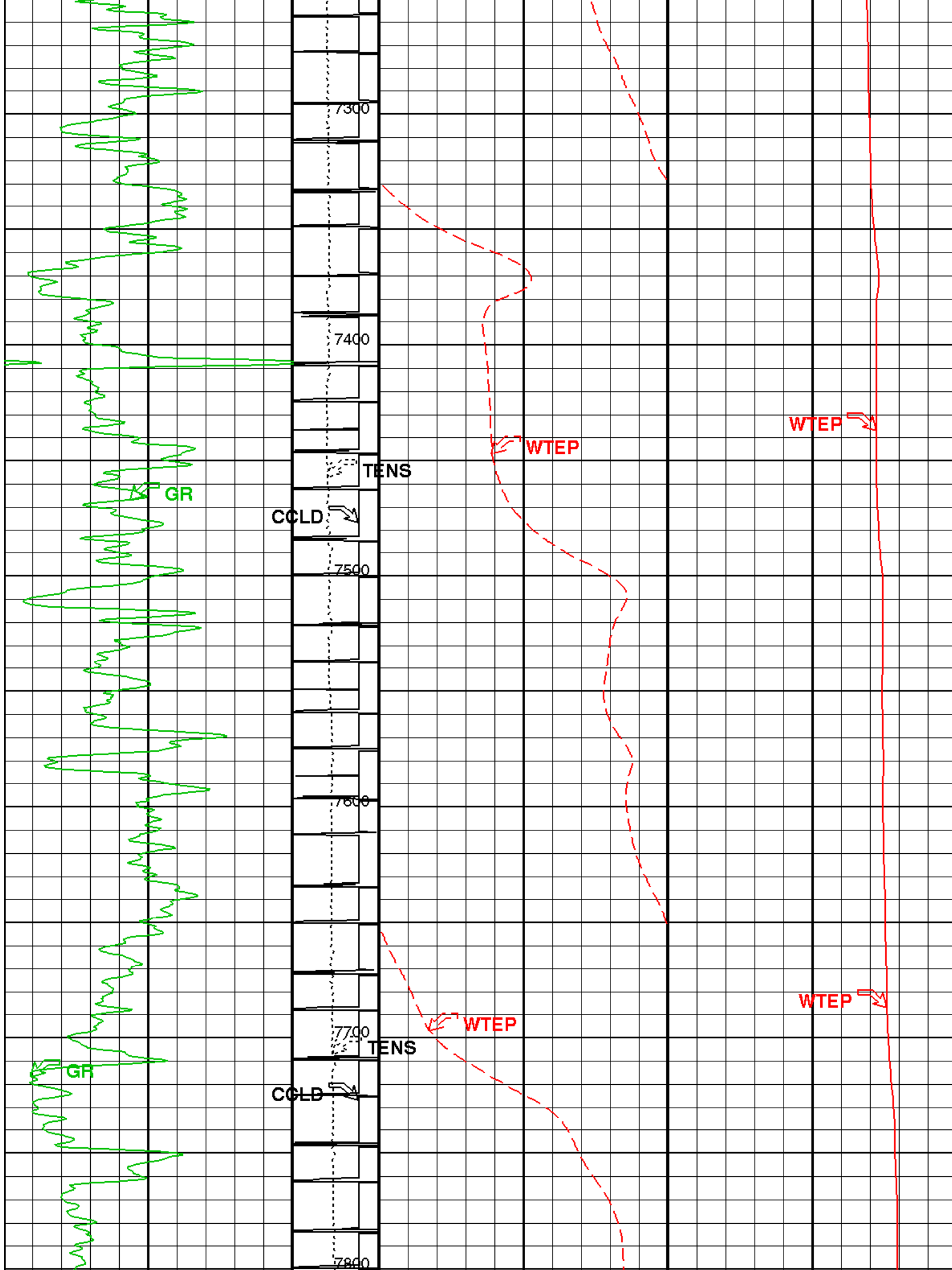


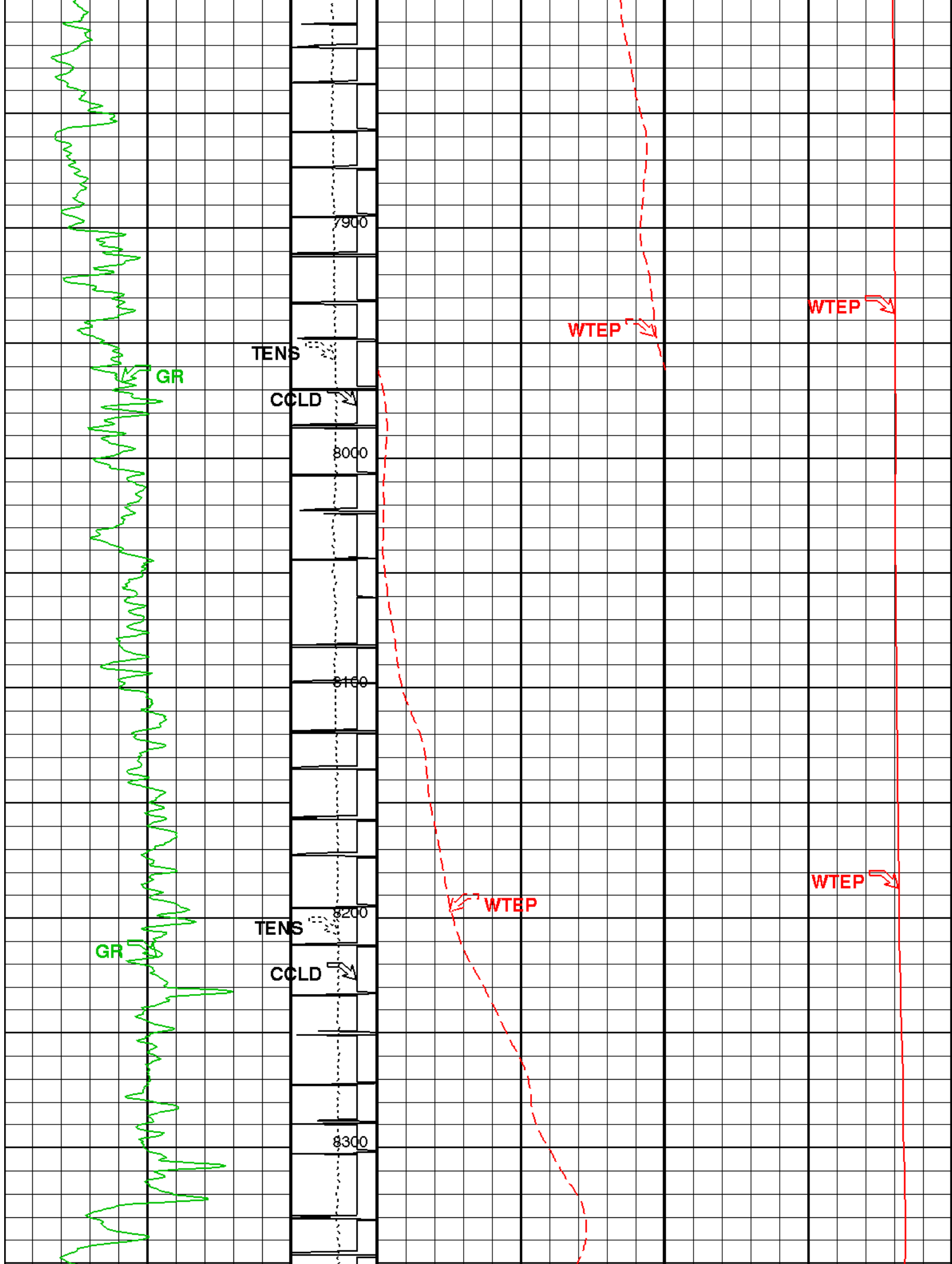


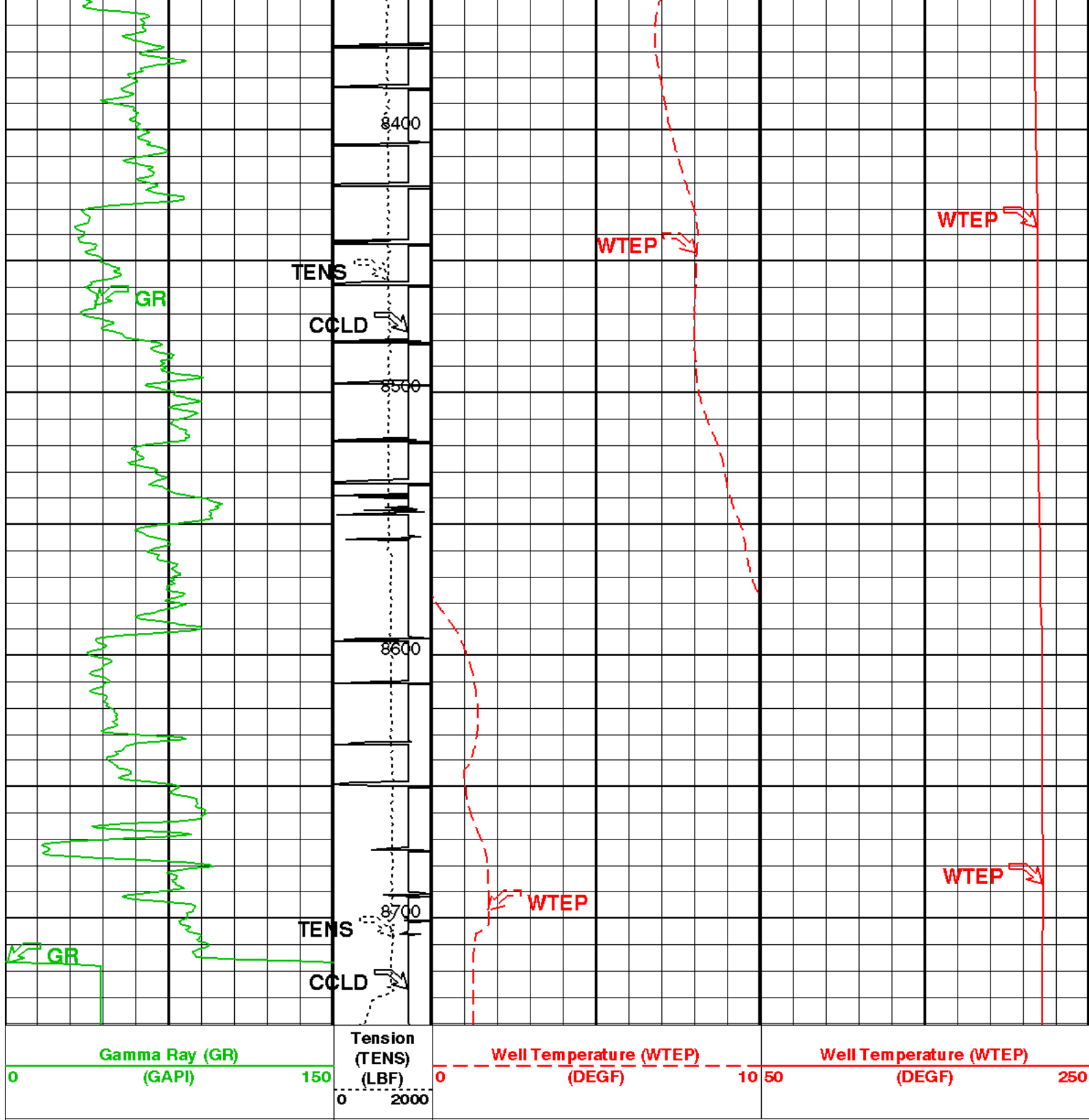












Discriminat ed CCL (CCLD)	
3	(V) -1

Parameters		
DLIS Name	Description	Value
System and Miscellaneous		
DO	Depth Offset for Playback	-1.0
PP	Playback Processing	FT
		NORMAL
Format: TEMPERATURE_S2	Vertical Scale: 2" per 100'	Graphics File Created: 17-Mar-2008 12:07

MCM						
SCMT-CB	SRPC-3590-MAR_2008_OP16_b	PSPT-A/B		SRPC-3590-MAR_2008_OP16_b		
Input DLIS Files						
DEFAULT	SCMT_PSP_013LUP	FN:12	PRODUCER	17-Mar-2008 10:00	8741.5 FT	192.0 FT
Output DLIS Files						
DEFAULT	SCMT_PSP_016PUP	FN:15	PRODUCER	17-Mar-2008 12:07		



COEFFICIENTS

MAXIS Field Log

Client:	Tool:	PSP
Field:	Sub Type:	PBMS
Well:	Sensor:	WellTemp RTD
Run date:		

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR RTD THERMOMETER PBMS-A.1939 S/N:

1939

210907

16

3CA3

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	-.192674295604E+03	-.234143172036E+02	+.360027147226E+02
	Tt**3	Tt**4	Tt**5
Tt**0	-.451459177739E+01	+.222363298957E+00	0.0

Client:	Tool:	PSP
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PBMS Gamma Ray

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

RESISTORS FOR GR SENSOR N.33634,TOOL PBMS-AA1939. SENSOR S/N:

33634

160403

12

866A

GR HV Rt

	Rt**0	Rt**1
Rt**0	+.200000000000e+04	+.207000000000e+04

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR SAPPHIRE PBMS-A.1939 S/N:

1939

210907

66

9660

Pres Coeff

	Tt**0	Tt**1	Tt**2
Tp**0	+.944950953549E+03	-.242311442189E+04	+.641302264192E+03
Tp**1	+.944757463945E+03	+.290564066410E+03	+.166487430582E+03
Tp**2	+.210345004042E+02	-.231578270245E+00	-.251029716164E+01
Tp**3	-.454319029517E+01	+.122155845738E+01	0.0
Tp**4	0.0	0.0	0.0

TP**5	0.0	0.0	0.0
	Tt**3	Tt**4	Tt**5
TP**0	-.991607166585E+02	+.584103939733E+01	0.0
TP**1	-.273766142431E+02	+.151640530624E+01	0.0
TP**2	0.0	0.0	0.0
TP**3	0.0	0.0	0.0
TP**4	0.0	0.0	0.0
TP**5	0.0	0.0	0.0

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB :
 Sensor Serial NB 1939
 Calib Date ddmmyy 210907
 Matrix Size 66
 Coeff CRC B078

Temp Coeff

	TP**0	TP**1	TP**2
Tt**0	-.248401153582E+03	-.205781277429E+02	+.478009499342E+01
Tt**1	+.357713408136E+02	+.115465738727E+02	-.159929236954E+01
Tt**2	+.139005038313E+02	-.207900611957E+01	+.214176436021E-01
Tt**3	-.872315649643E+00	+.150969128393E+00	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0
	TP**3	TP**4	TP**5
Tt**0	-.133980033106E+01	+.147736709428E+00	0.0
Tt**1	+.426424494054E+00	-.463133851234E-01	0.0
Tt**2	0.0	0.0	0.0
Tt**3	0.0	0.0	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0

PBMS Digitalization Clock

Sonde Serial NB

Sensor Serial NB 1939

Calib Date ddmmyy 210907

Matrix Size 16

Coeff CRC D9C3

Clock Coeff

	Temp**0	Temp**1	Temp**2
Temp**0	-.653521460513E+02	-.707996899093E+01	-.441778670491E-01
	Temp**3	Temp**4	Temp**5
Temp**0	+.367637209176E-03	+.327349034717E-05	0.0

Company: ANTERO RESOURCES CORP.



Well: NORCROSS A-11
Field: MAMM CREEK
County: GARFIELD
State: COLORADO

CEMENT BOND LOG
TEMPERATURE LOG
GAMMA RAY - CCL