

Company: ENCANA OIL & GAS (USA) INC.

Well: DAYBREAK FEDERAL 19-8BB (PJ19)

Field: PARACHUTE

County: GARFIELD State: COLORADO

CEMENT BOND LOG
CBL – VDL
GAMMA RAY – CCL

County: GARFIELD

Field: PARACHUTE

Location: SHL: NWSE 2052' FSL & 2323' F

Well: DAYBREAK FEDERAL 19-8BB

Company: ENCANA OIL & GAS (USA) INC.

LOCATION			
SHL: NWSE 2052' FSL & 2323' FEL	Elev.: K.B.	5447.00 ft	
BHL: SENE 2420' FNL & 642' FEL	G.L.	5425.00 ft	
	D.F.	5446.00 ft	
Permanent Datum:	GROUND LEVEL	Elev.: 5425.00 ft	
Log Measured From:	KELLY BUSHING	22.00 ft above Perm. Datum	
Drilling Measured From:	KELLY BUSHING		
API Serial No.	Section	Township	Range
05-045-19897-0000	19	7S	95W

	Run 1	Run 2	Run 3
PVT DATA			
Oil Density			
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation	34.85 deg		
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	6-Oct-2011		
Run Number	TWO		
Depth Driller	6550 ft		
Schlumberger Depth	6449 ft		
Bottom Log Interval	6440.4 ft		
Top Log Interval	200 ft		
Casing Fluid Type	WATER		
Salinity			
Density	8.4 lbm/gal		
Fluid Level	22 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.750 in		
From	22 ft		
To	6550 ft		
Casing/Tubing Size	4.500 in		
Weight	11.6 lbm/ft		
Grade	M-80		
From	22 ft		
To	6528 ft		
Maximum Recorded Temperatures	188 degF		
Logger On Bottom	6-Oct-2011	Time	14:04
Unit Number	391	Location	GRAND JUNCTION
Recorded By	SHOWKAT HOSSAIN		
Witnessed By	UNATTENDED		

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: 6-OCT-2011 15:40:13

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW–JA	Type:	CMTD–C	Type:	1–25ZT
Serial Number:	6322	Serial Number:	5006	Serial Number:	391
Calibration Date:	07–APR–2011	Calibration Date:	04–OCT–2011	Length:	14500 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	174878	Conveyance Method:	Wireline
Calibration Cable Type:	1–25ZT	Number of Calibration Points:	10	Rig Type:	Land
Wheel Correction 1:	–6	Calibration RMS:	4		
Wheel Correction 2:	–5	Calibration Peak Error:	8		

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	PLATFORM EXPRESS
Reference Log Run Number:	1
Reference Log Date:	10-JUN-2011
Subsequent Trip Down Log Correction:	4.00 FT

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES FOLLOWED.
2. IDW USED AS PRIMARY DEPTH CONTROL.
3. Z-CHART AND 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: RST – SIGMA OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
THIS IS A SUBSEQUENT TRIP IN WELL.	
TOOL RAN AS PER TOOL SKETCH.	
CORRELATED TO SCHLUMBERGER PLATFORM EXPRESS DATED 10-JUN-2011 AS RUN 1.	
TD TAGGED AT: 6449 FT	
MAXIMUM RECORDED PRESSURE AT TD: 2562.2 PSIA	
MAXIMUM RECORDED TEMPERATURE AT TD: 188 DEGF	
SHORT JOINTS: 4436 FT – 4457 FT	

EXPECTED FREE PIPE AMPLITUDE: 80 mV	
CBL TRANSIT TIME CYCLE SKIPPING IN ZONES OF GOOD CEMENT DUE TO LOW SIGNAL AMPLITUDE.	
AFE: 10136251	
THANK YOU FOR CHOOSING SCHLUMBERGER.	
CREW: 391- W. AZIZ & J. ROSA	

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

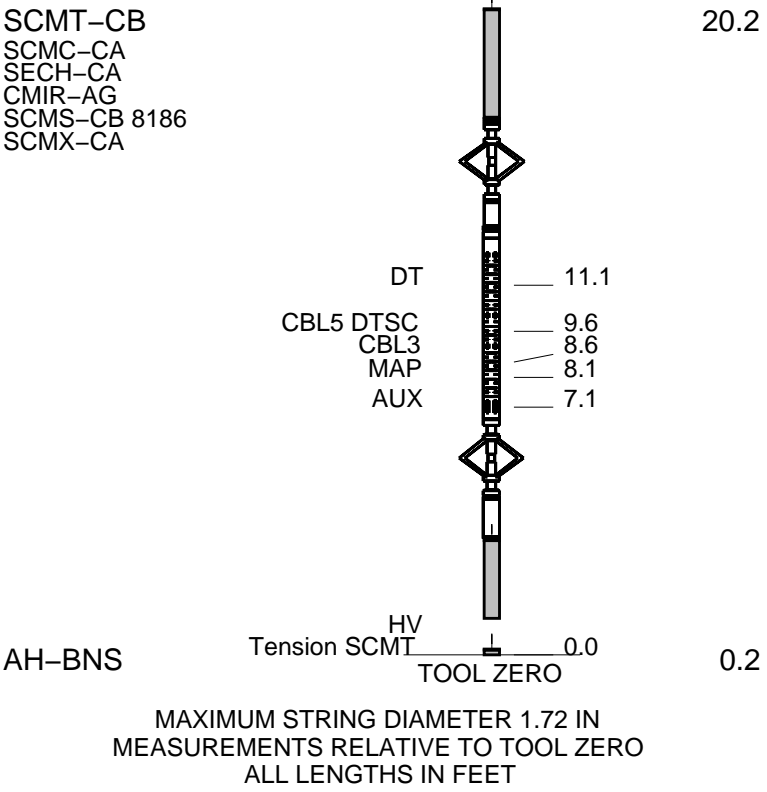
EQUIPMENT	DESCRIPTION

	RUN 1	RUN 2
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
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95	1	1
96	1	1
97	1	1
98	1	1
99	1	1
100	1	1

<p align="center">SURFACE EQUIPMENT</p> <p>WITM-A 3412 PSC_16MHZ 3412</p>		
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DOWNHOLE EQUIPMENT

Device	Temperature (°C)
MH-22	53.4
MH-22 391	
Detail MT	
TelStatus	
CTEM	51.8
AH-38	51.5
PSPT	51.5
PSC-A	
PSPT-A	
PSTC-A 1921	
PBMS-A 3779	47.8
10k Sapphire_Mano	
RTD Thermometer	
GR 34552	
Well_Temp	44.7
CCL	44.6
Manometer	44.0
CCL	43.2
PBMS PSTC	
RST-C	43.2
RSCH-A 429	
RSC-E 430	
RSS-A 373	
RSXH-A 436	
RSX-E 431	
RSC-A Far	34.1
RSC-A PNG	
RSC-A Nea	
RSX-A PNG	33.6



Schlumberger

MAIN PASS 0 PSI

MAXIS Field Log

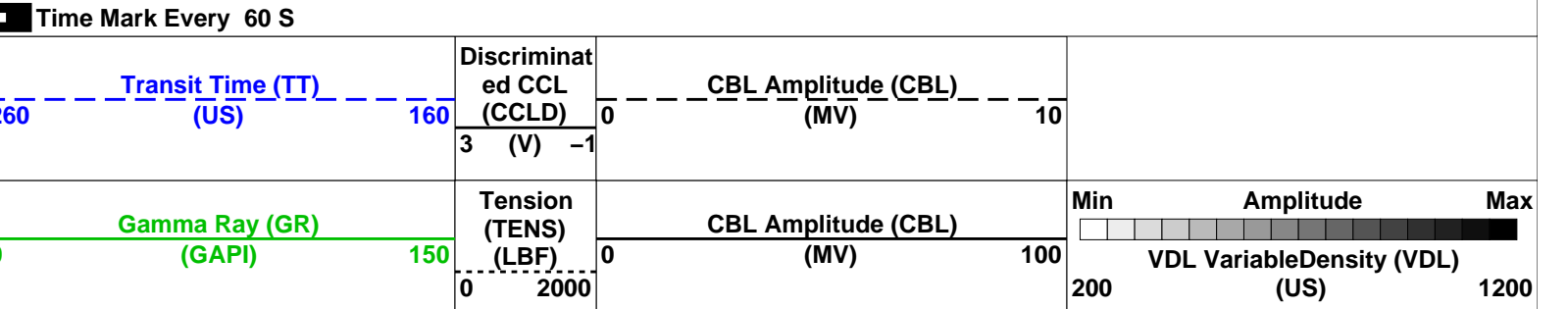
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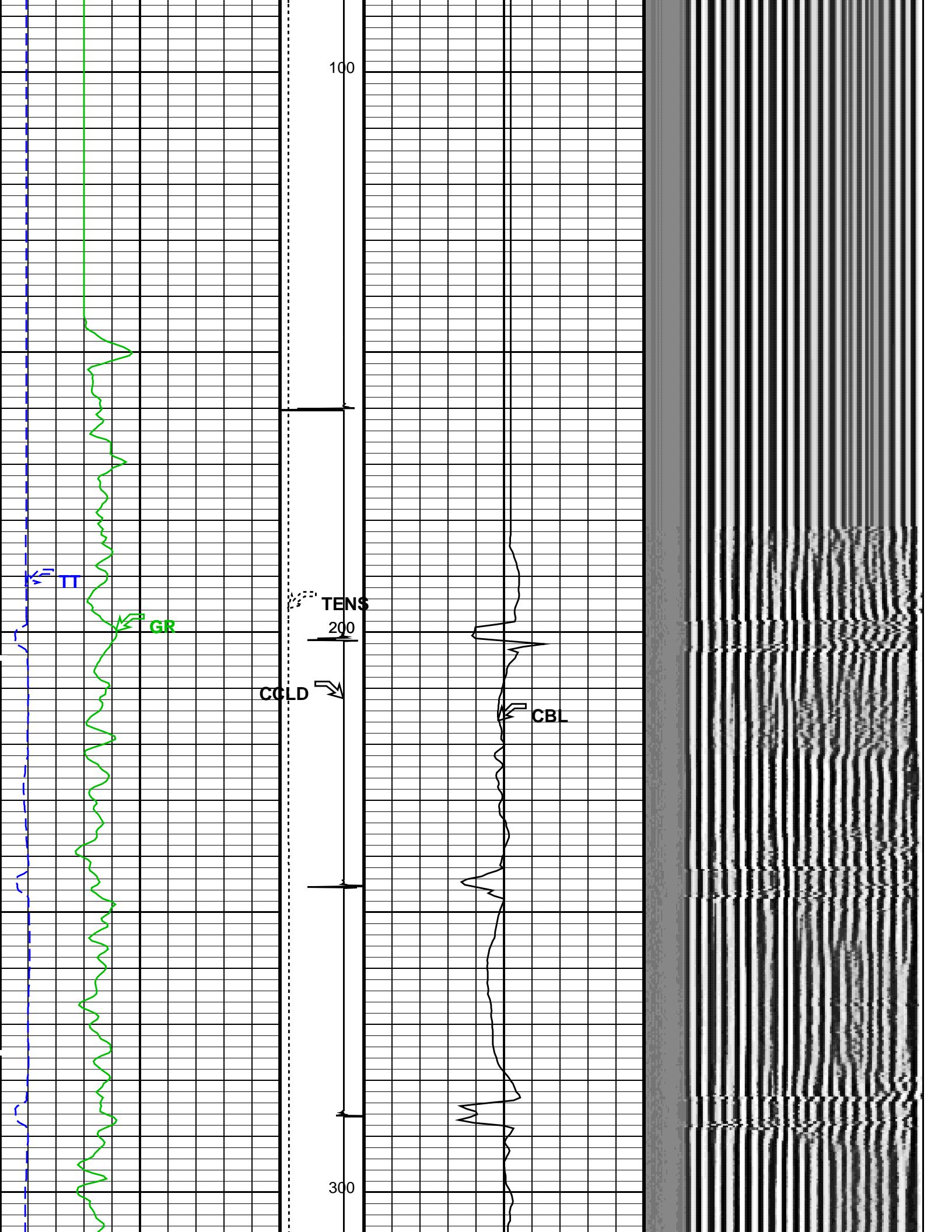
Input DLIS Files						
DEFAULT	SCMT_RST_PSP_086LUP	FN:85	PRODUCER	06-Oct-2011 14:04	6463.0 FT	134.0 FT
Output DLIS Files						
DEFAULT	SCMT_RST_PSP_090PUP	FN:89	PRODUCER	06-Oct-2011 15:48	6467.0 FT	86.0 FT

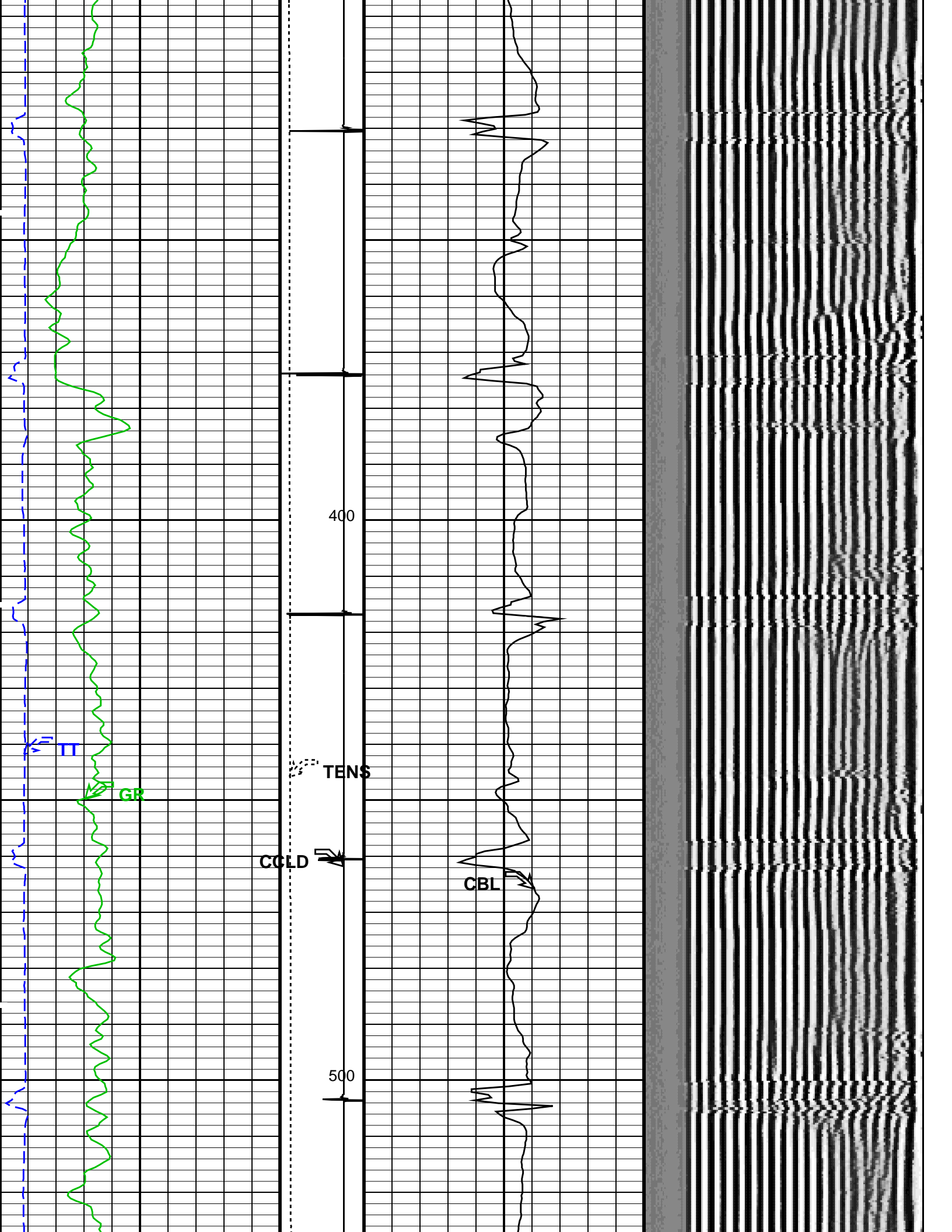
OP System Version: 19C0-187

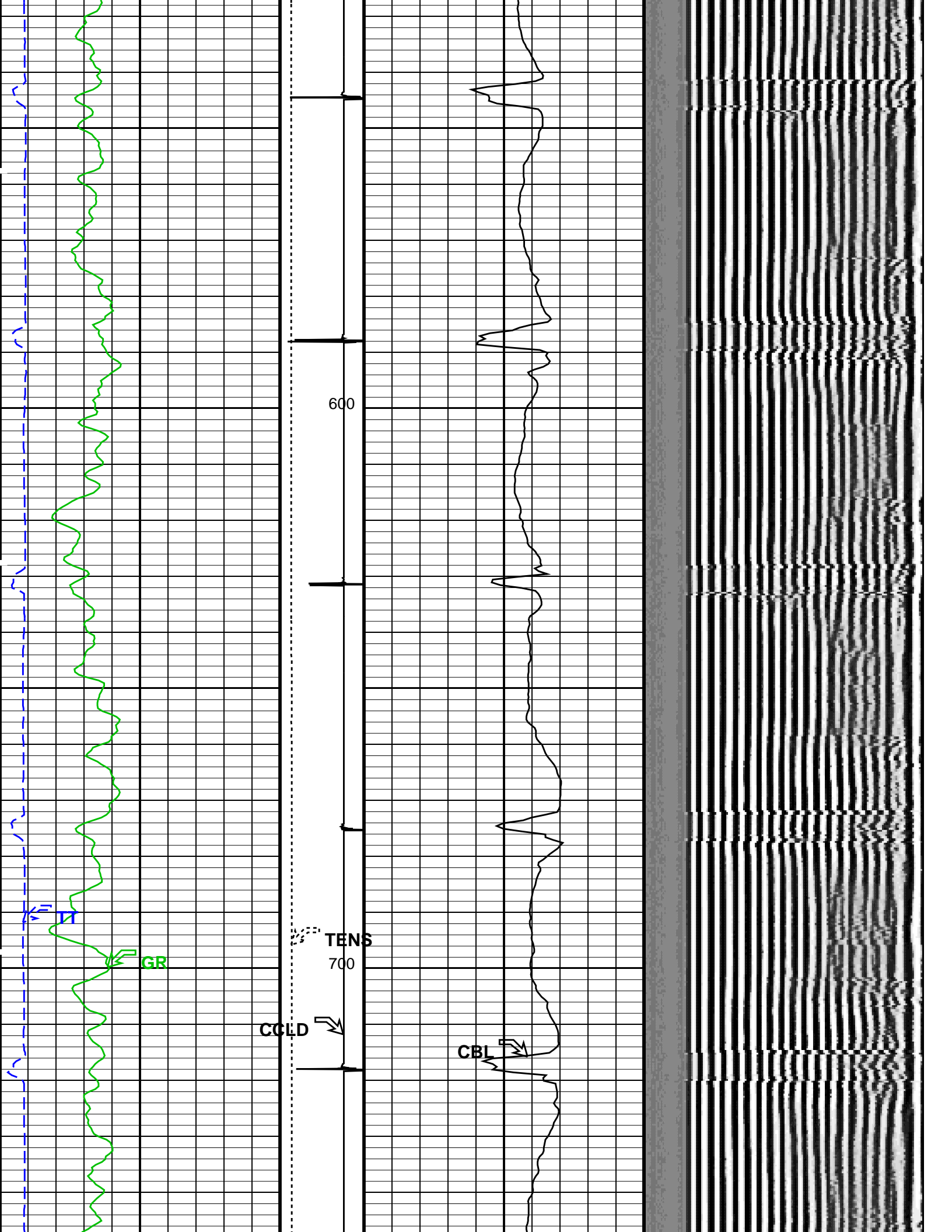
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PSPT	19C0-187		

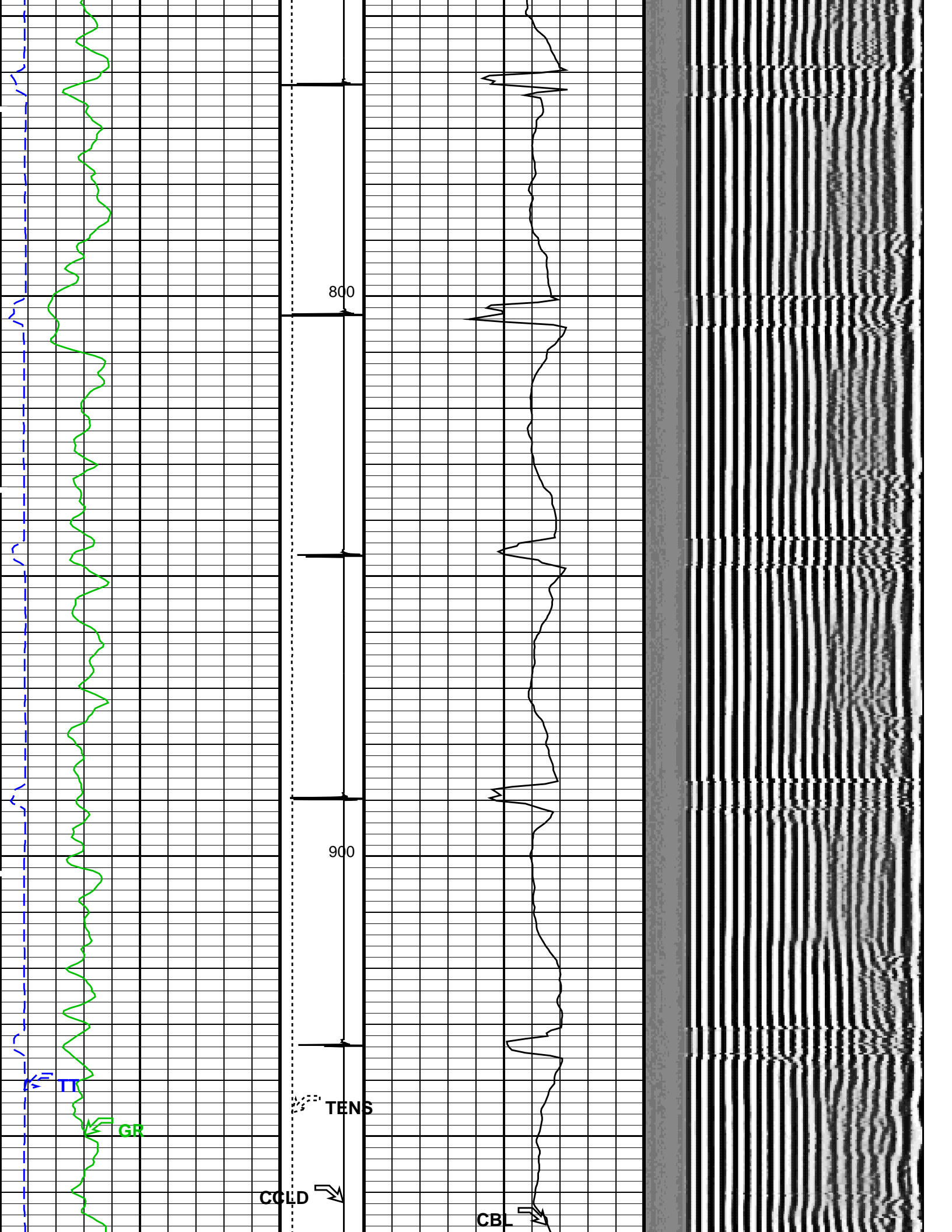
PIP SUMMARY

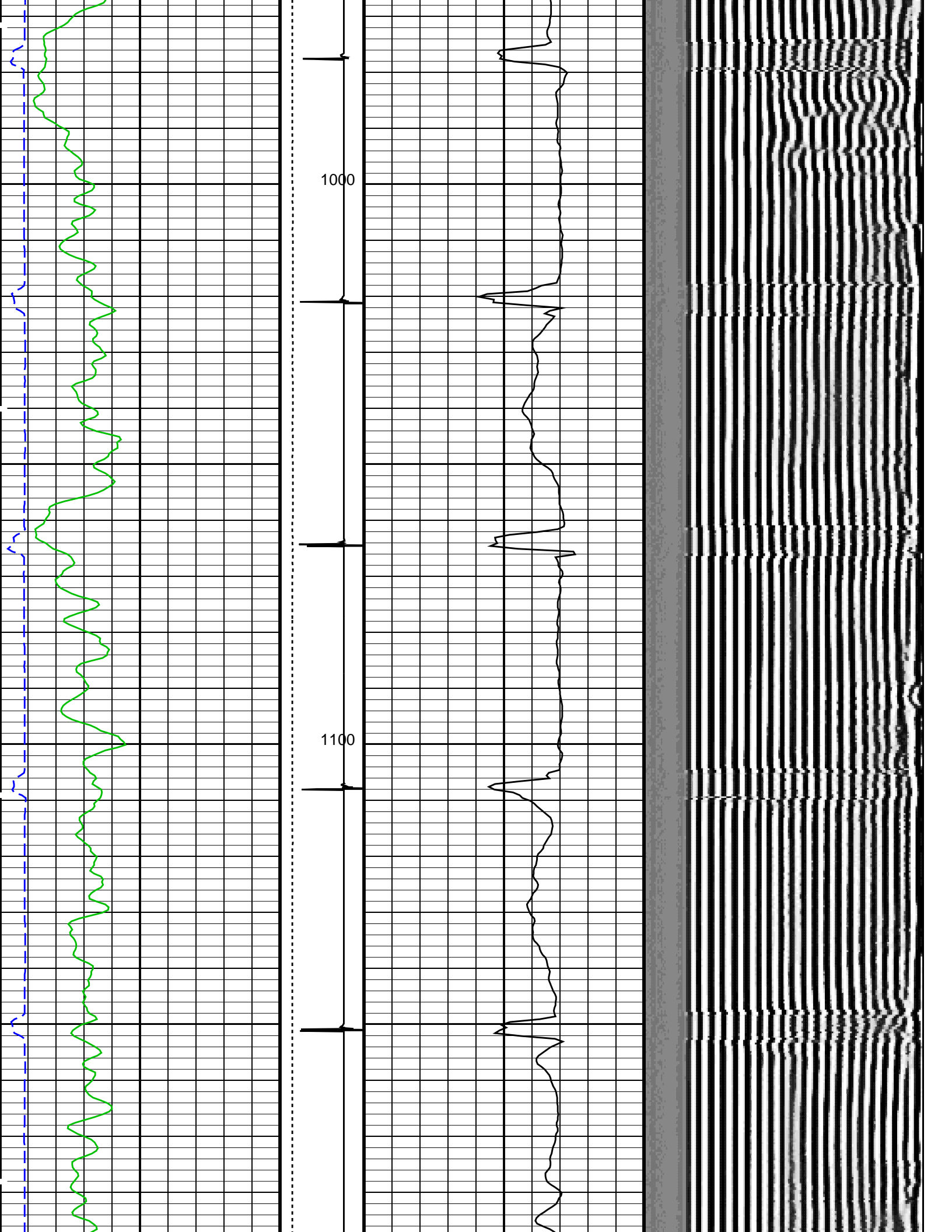


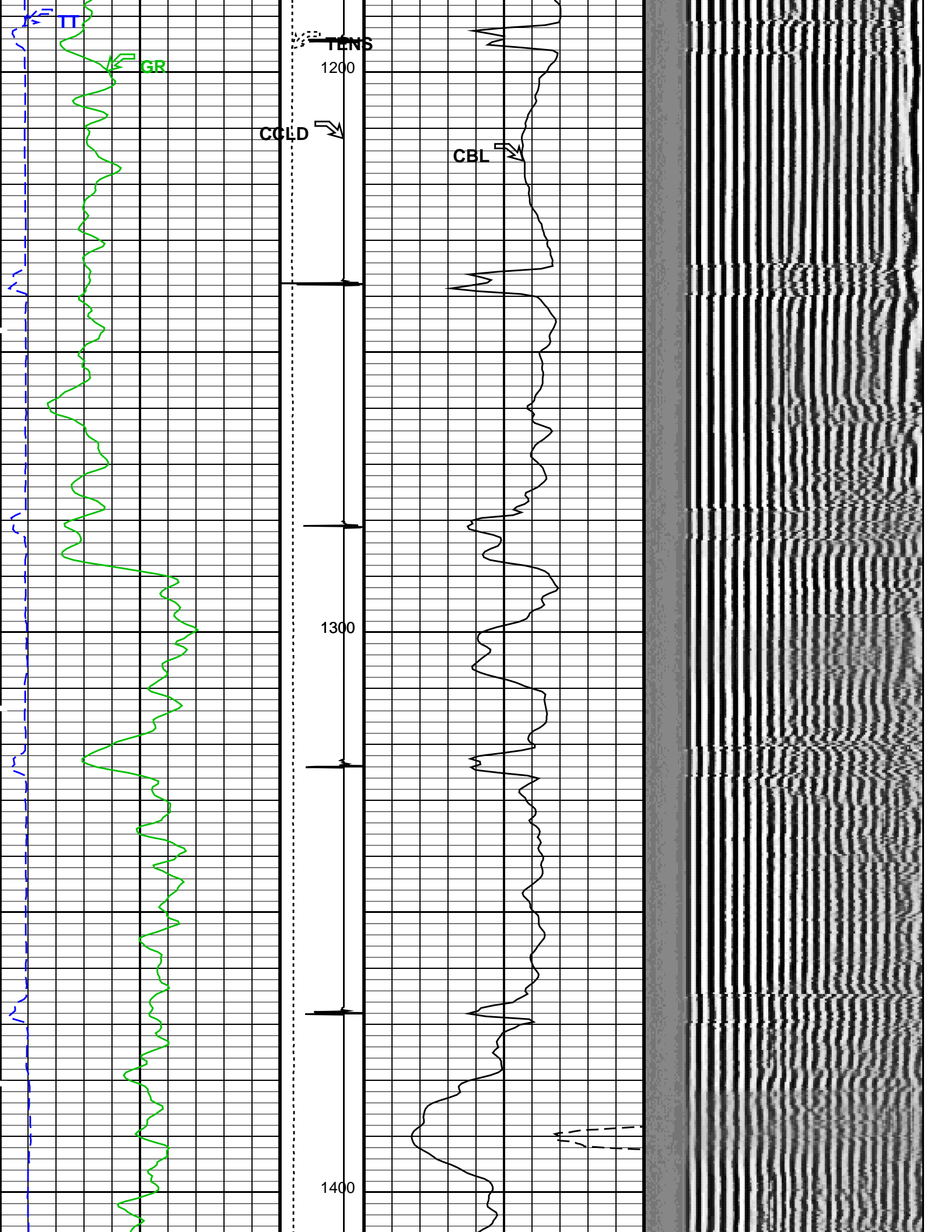


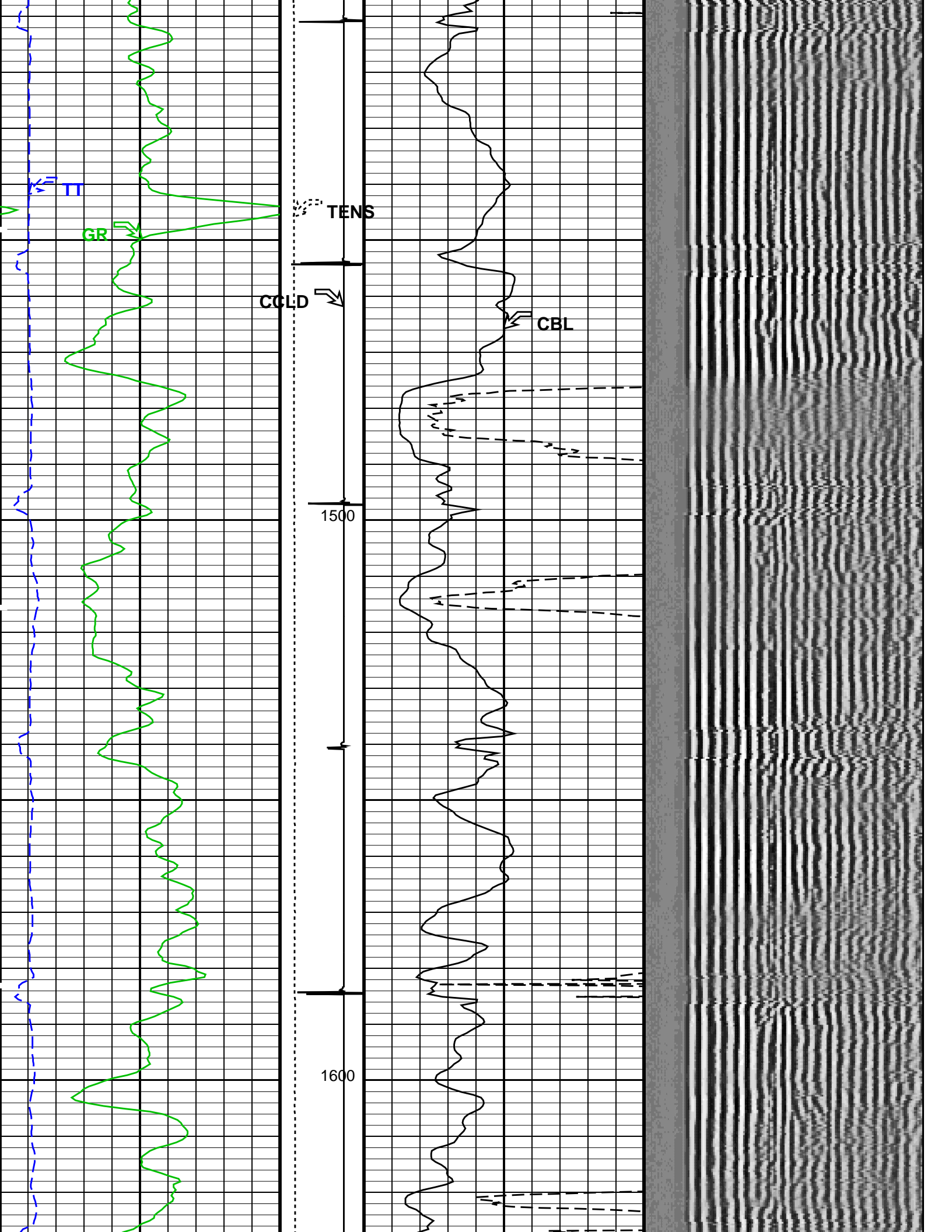


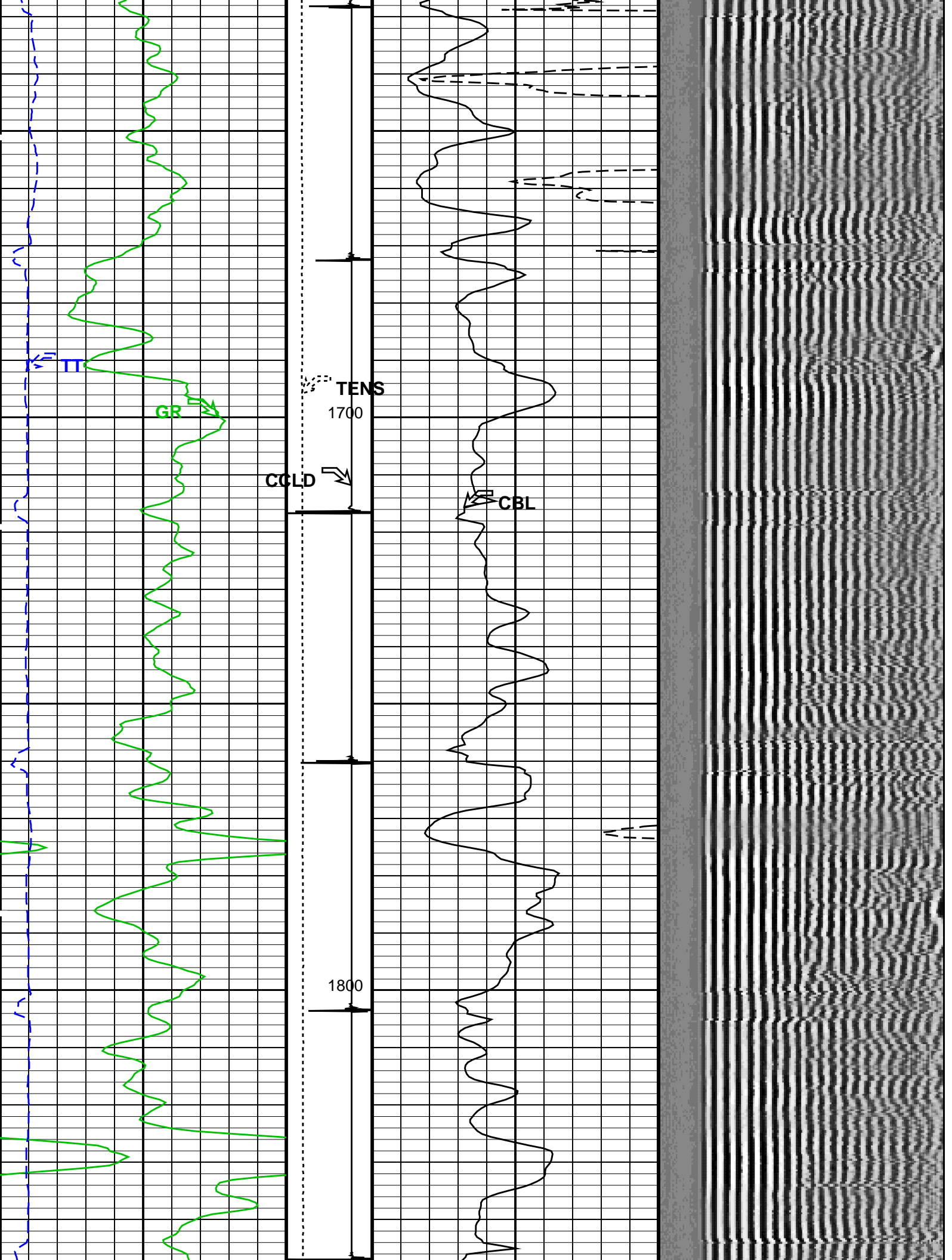


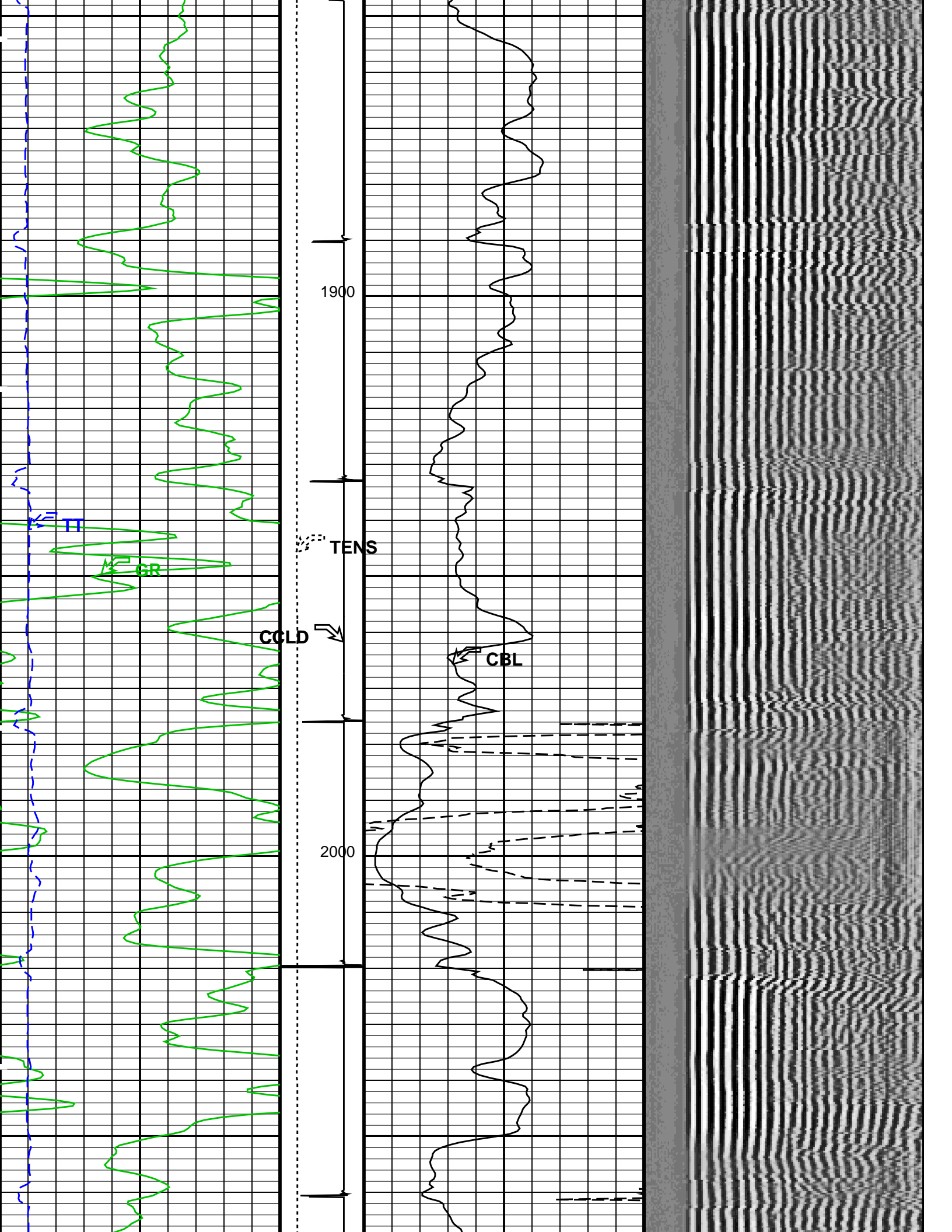


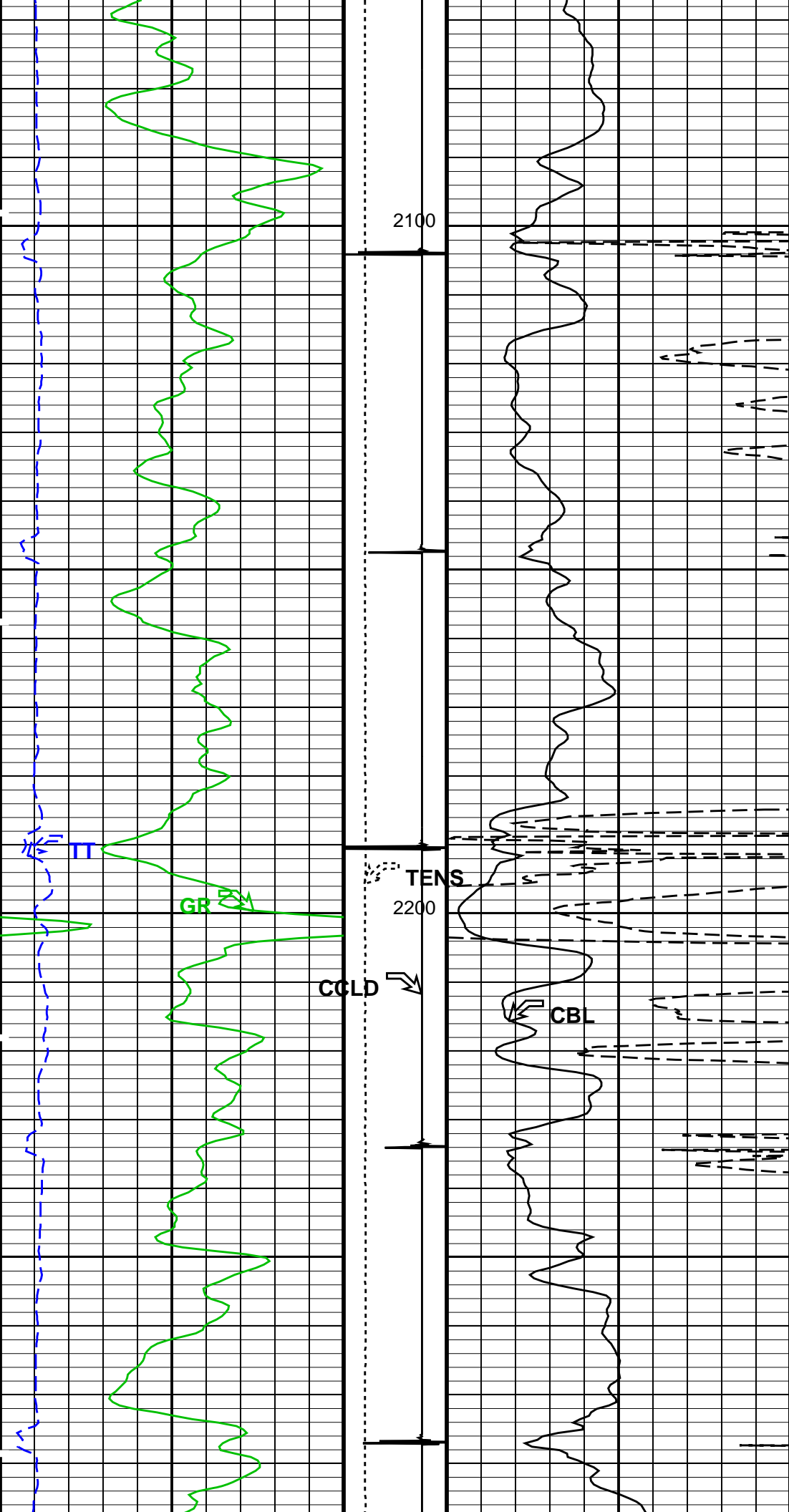


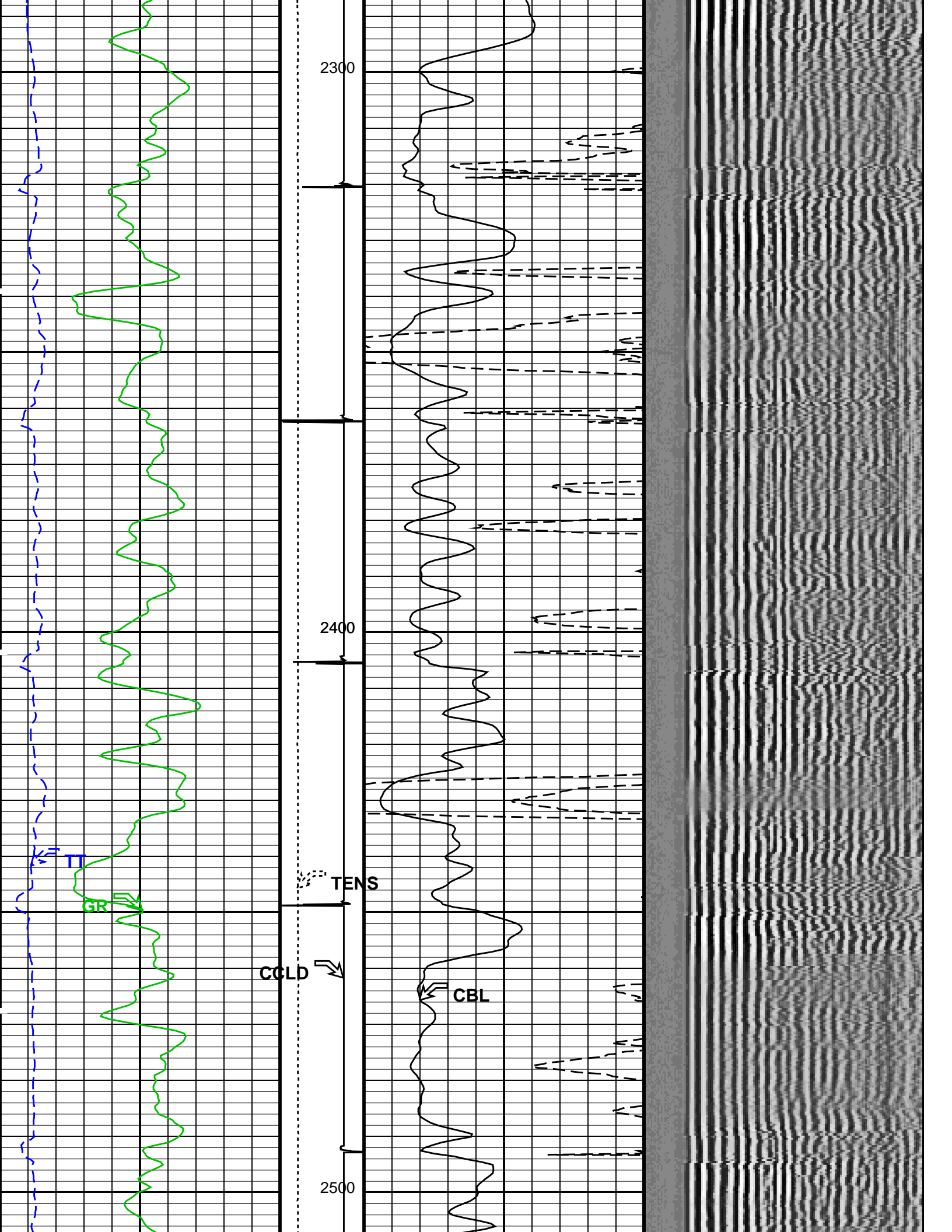


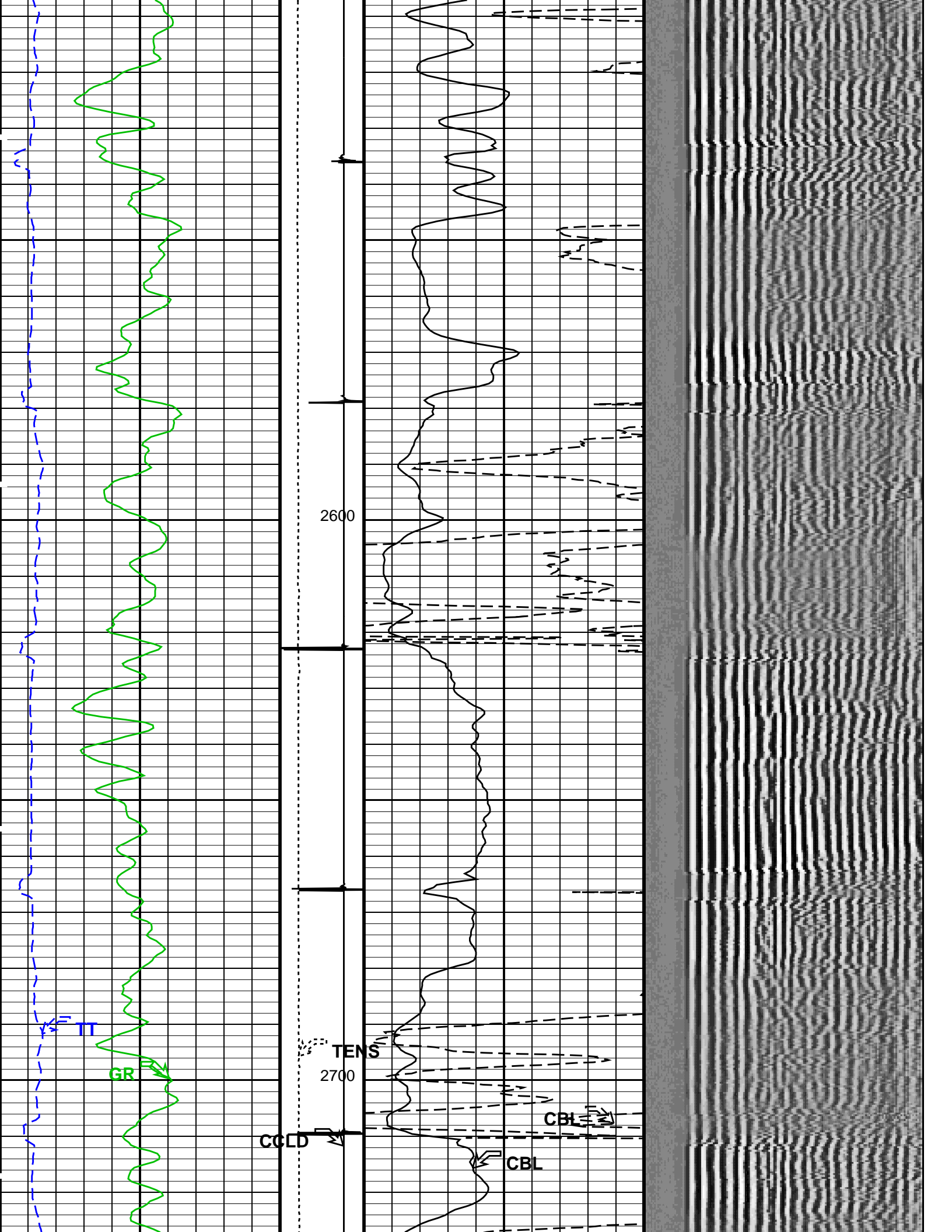


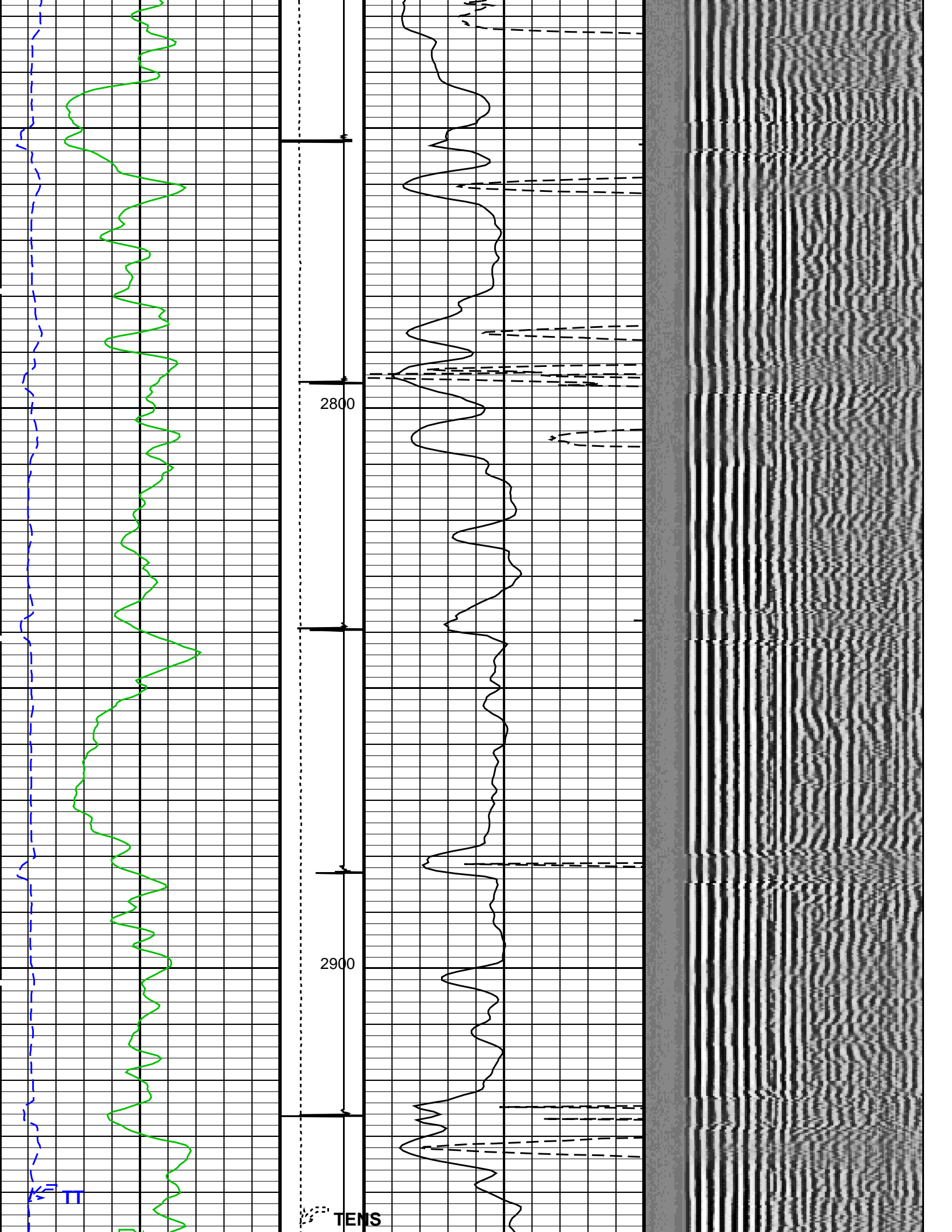


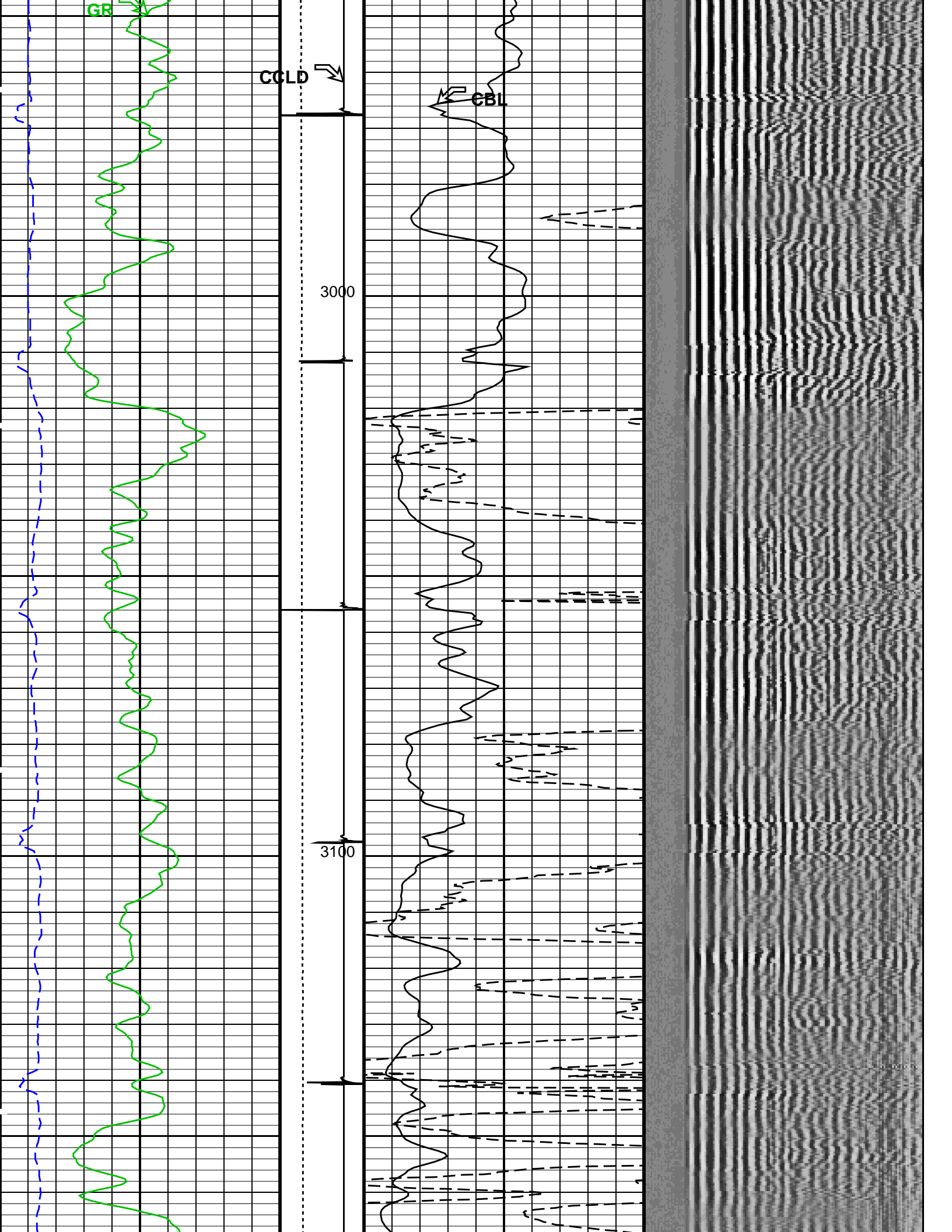


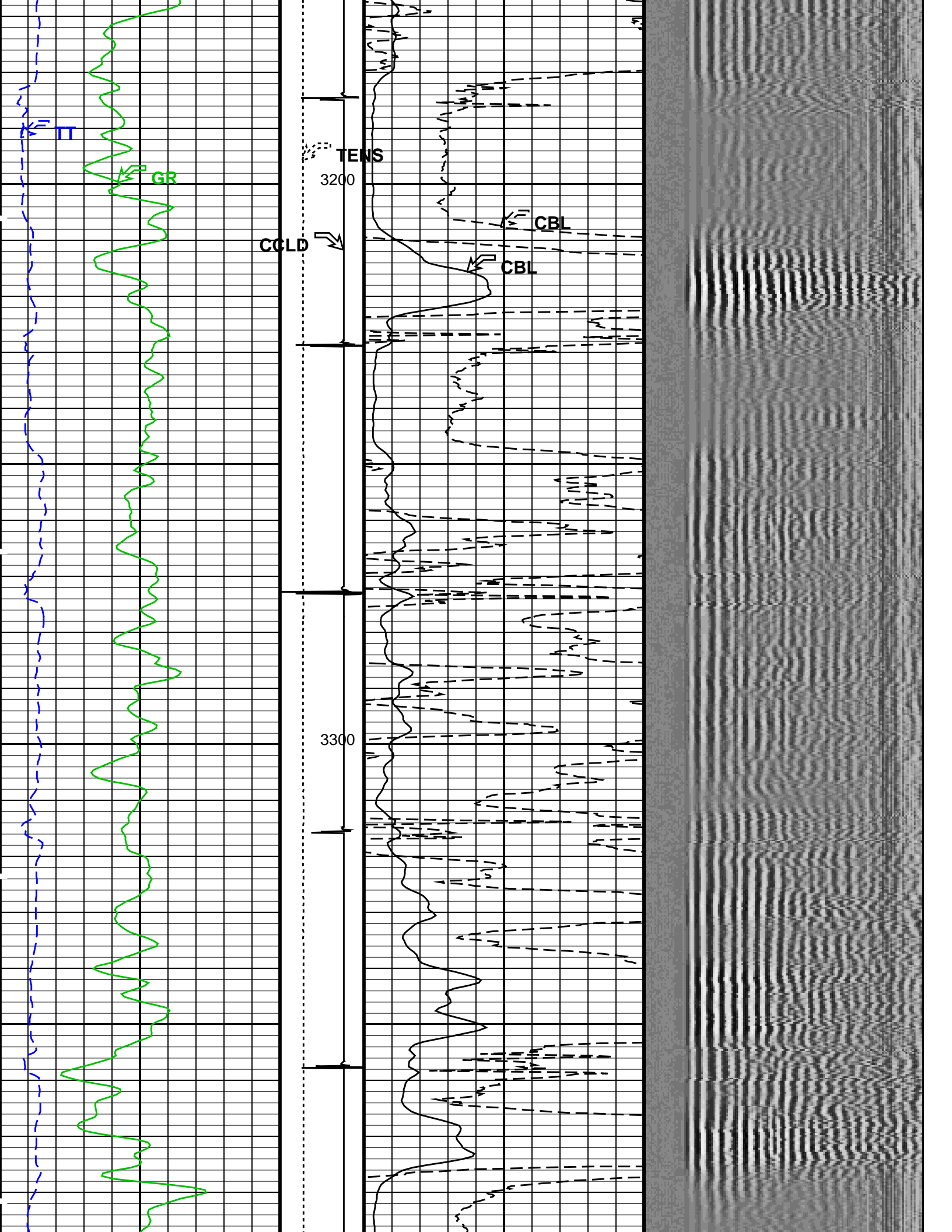


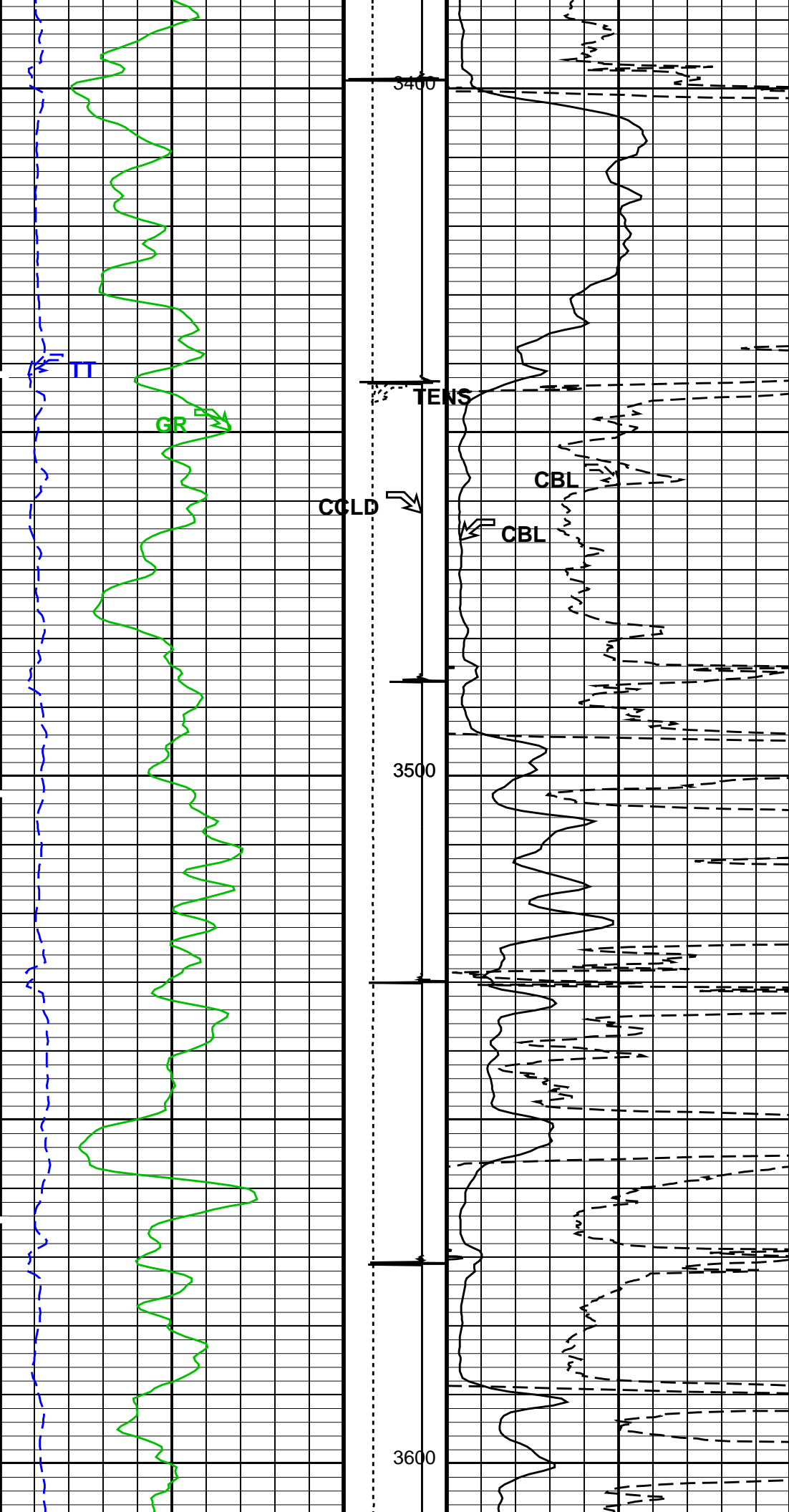


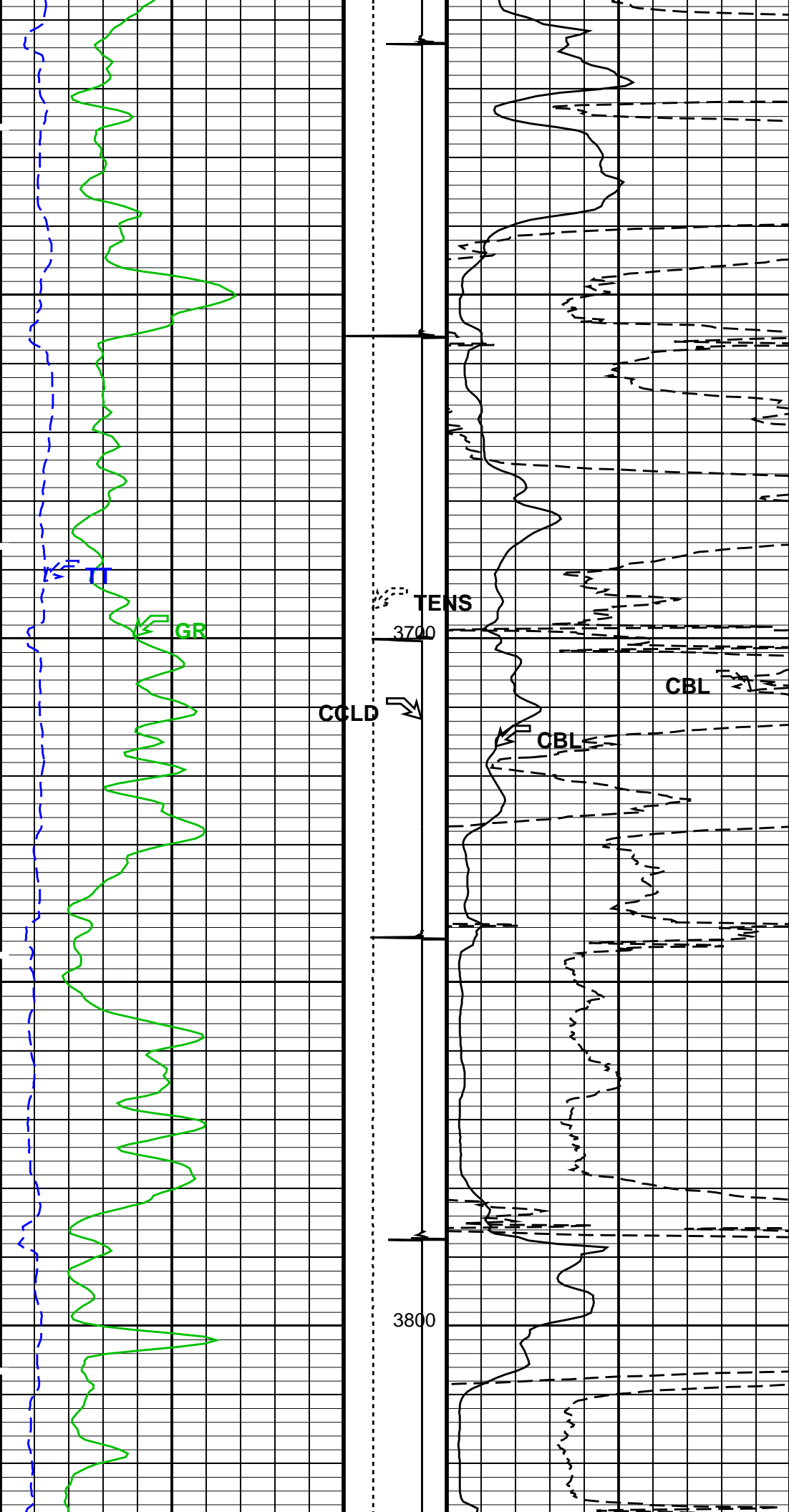


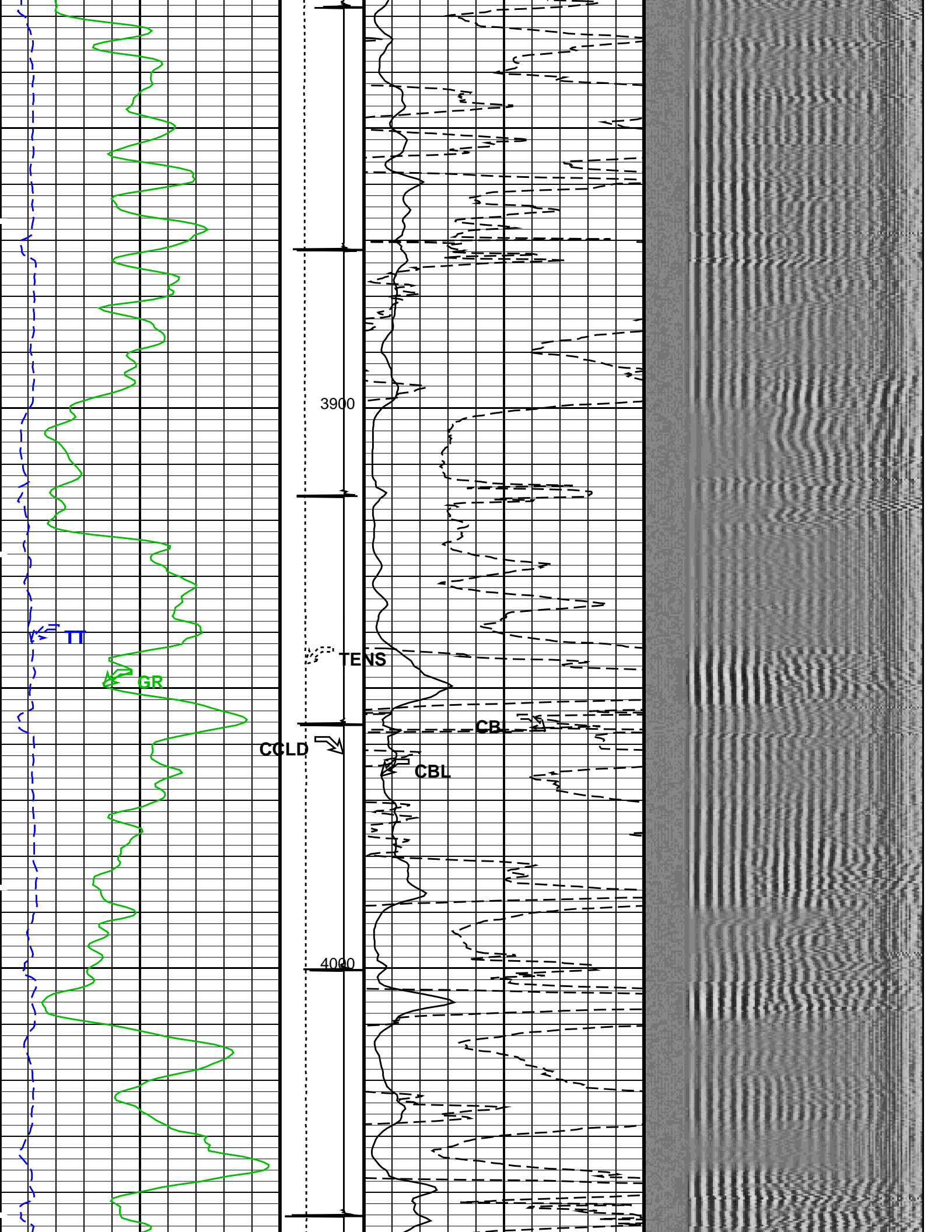


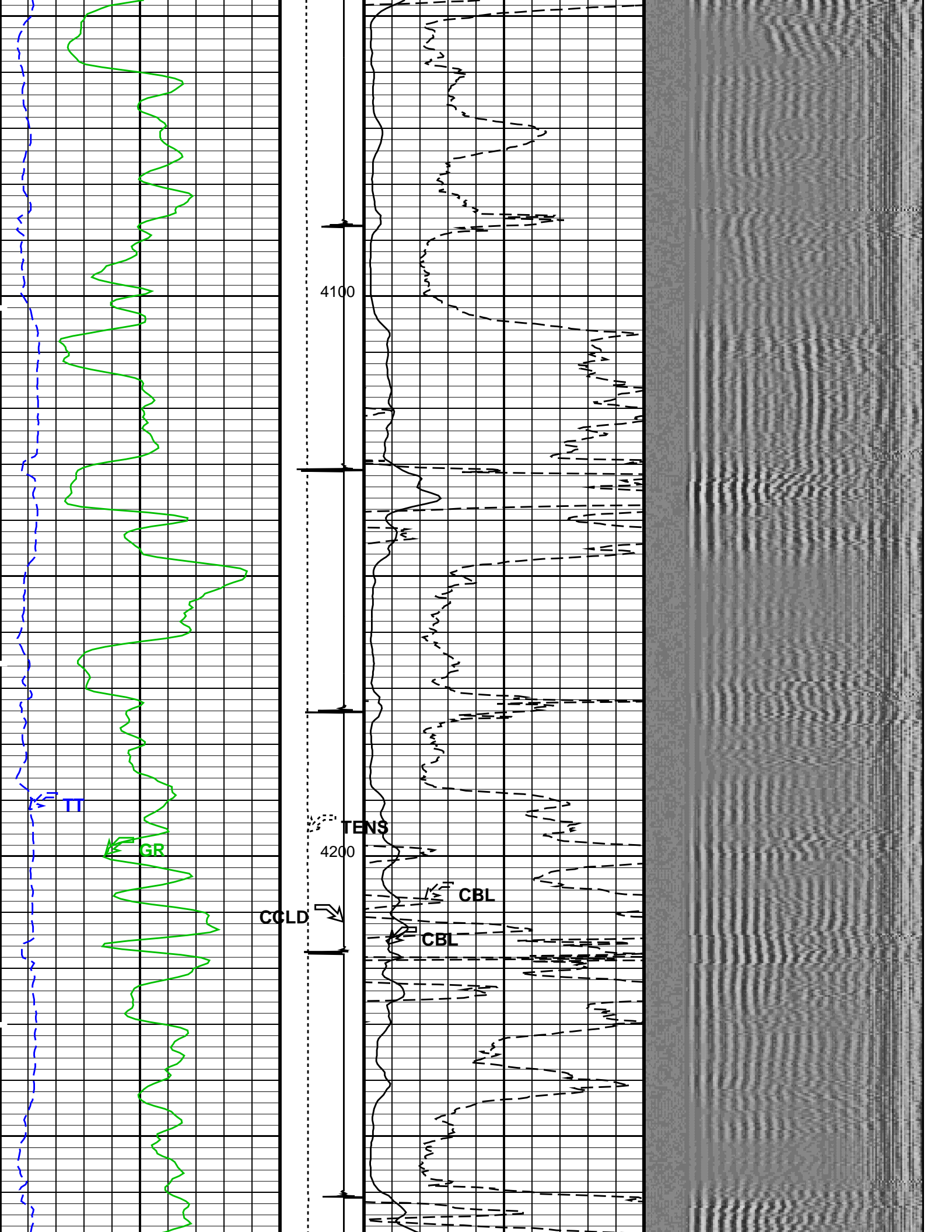


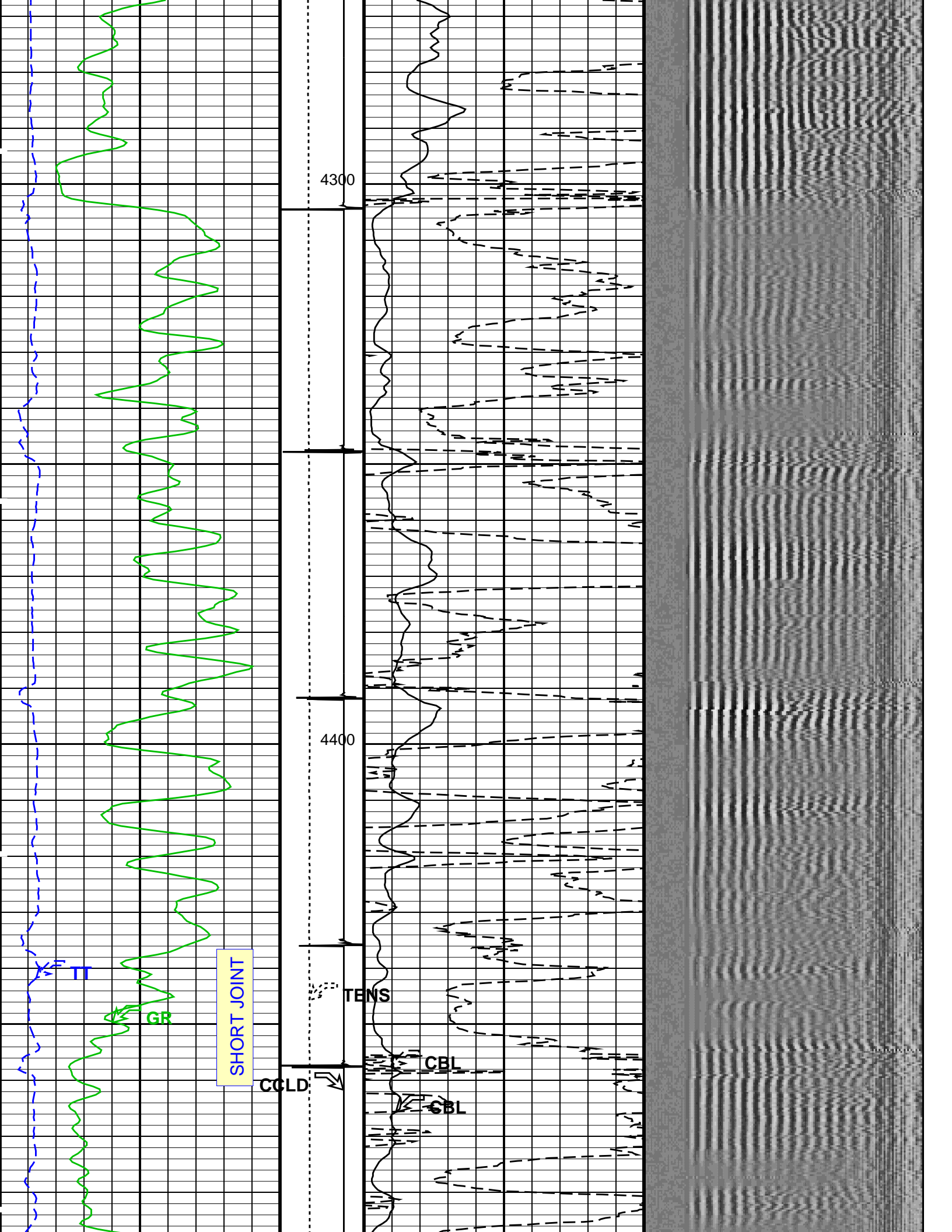


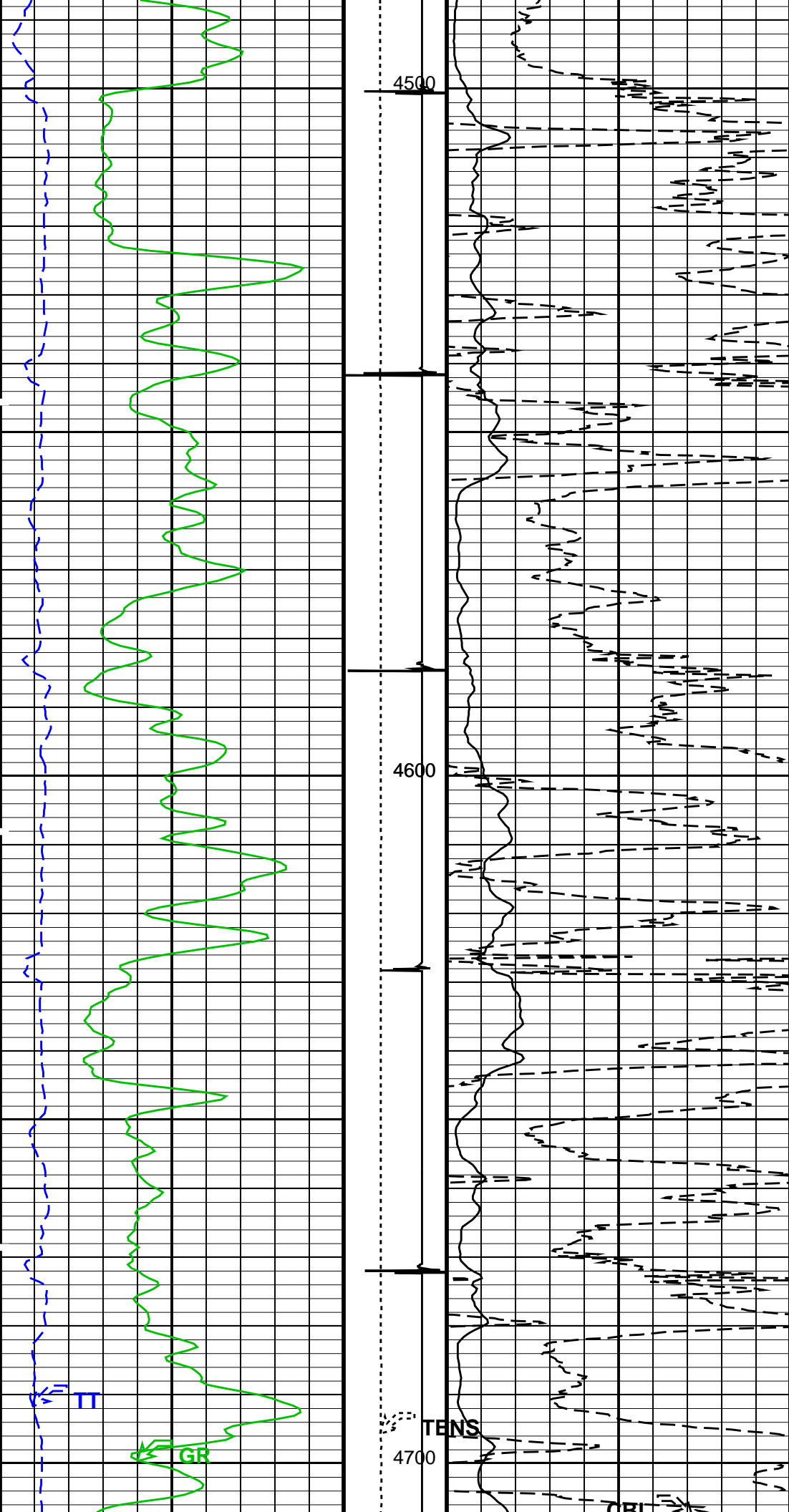


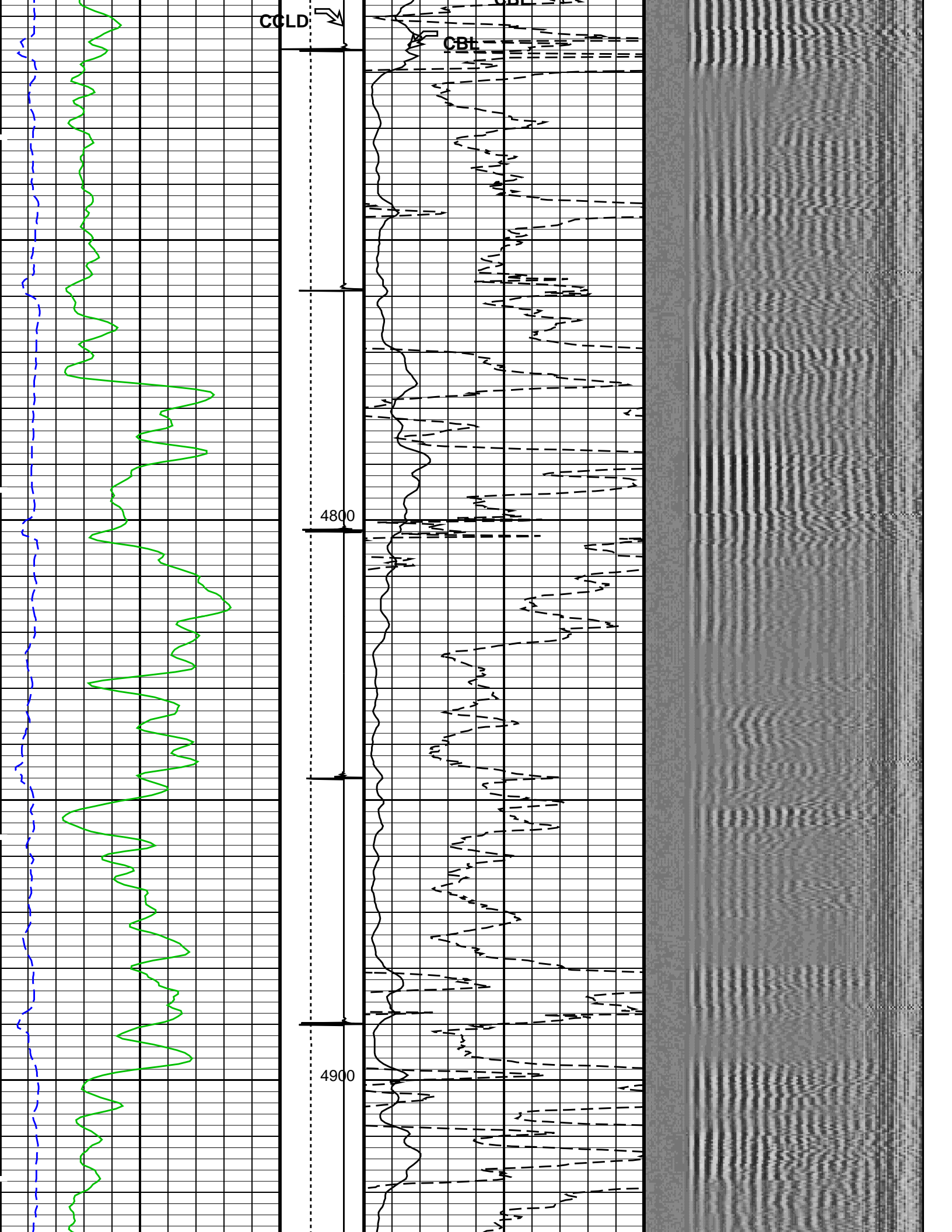


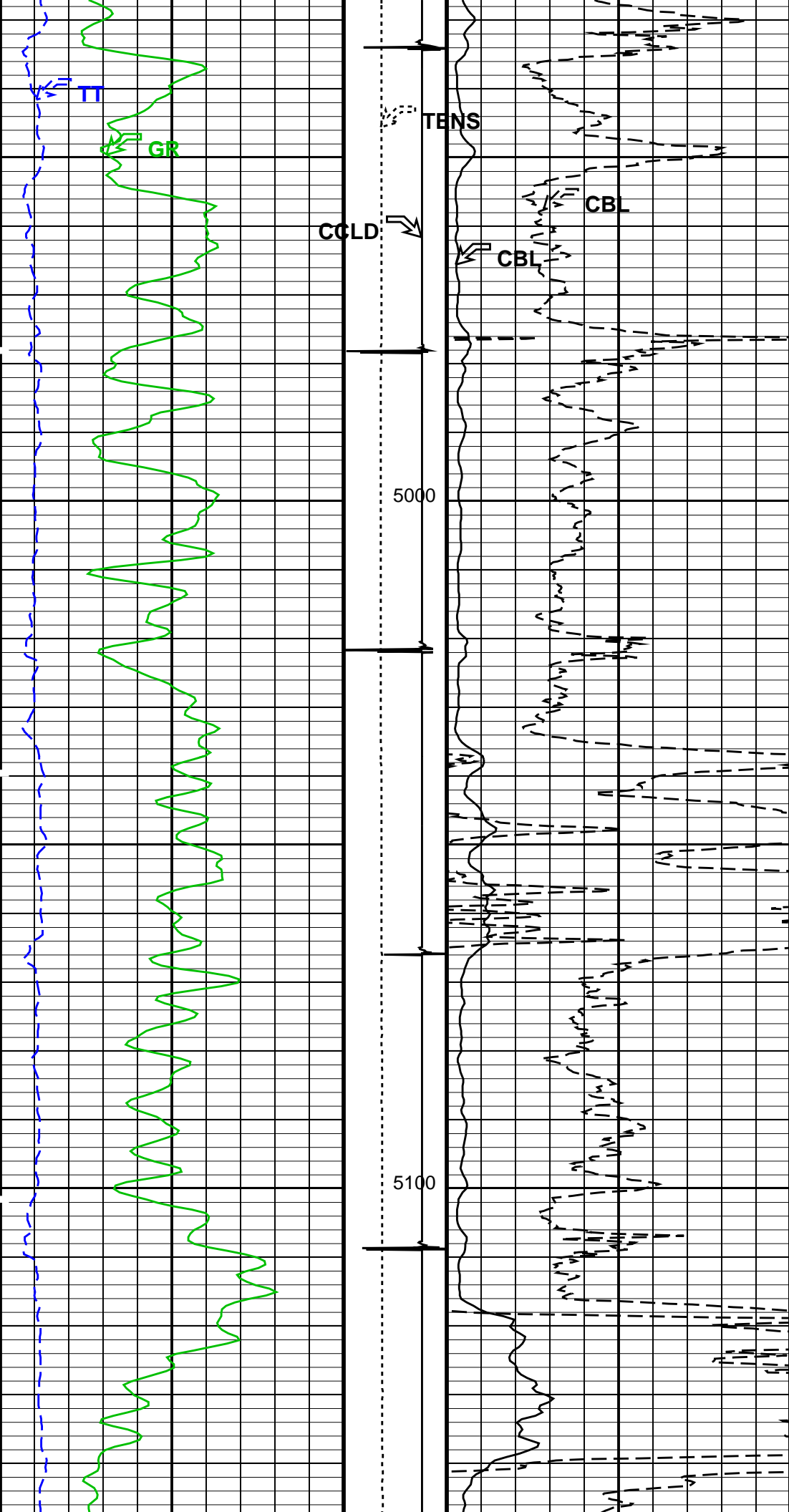


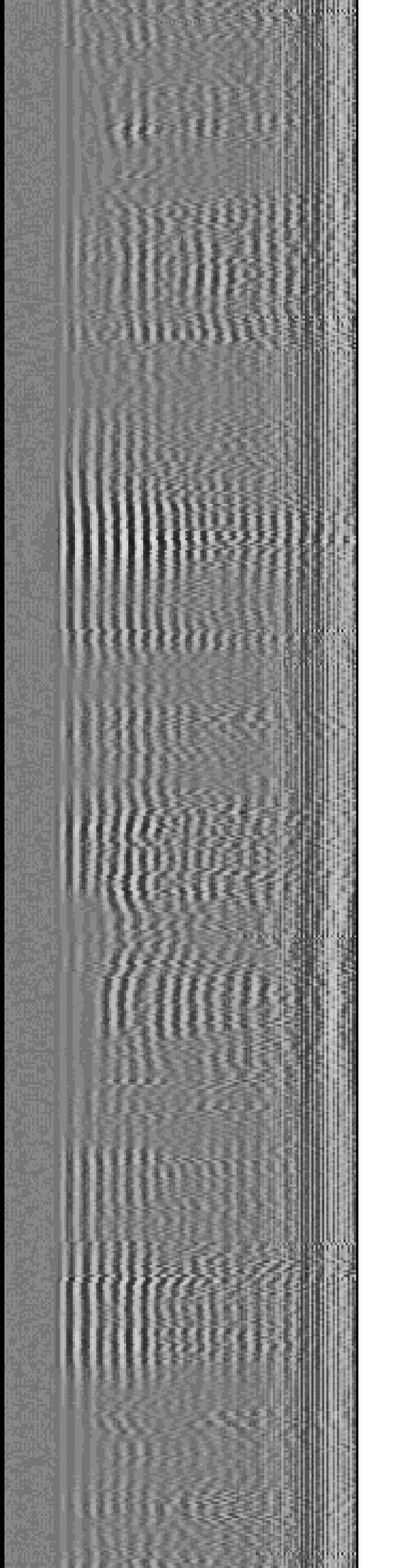
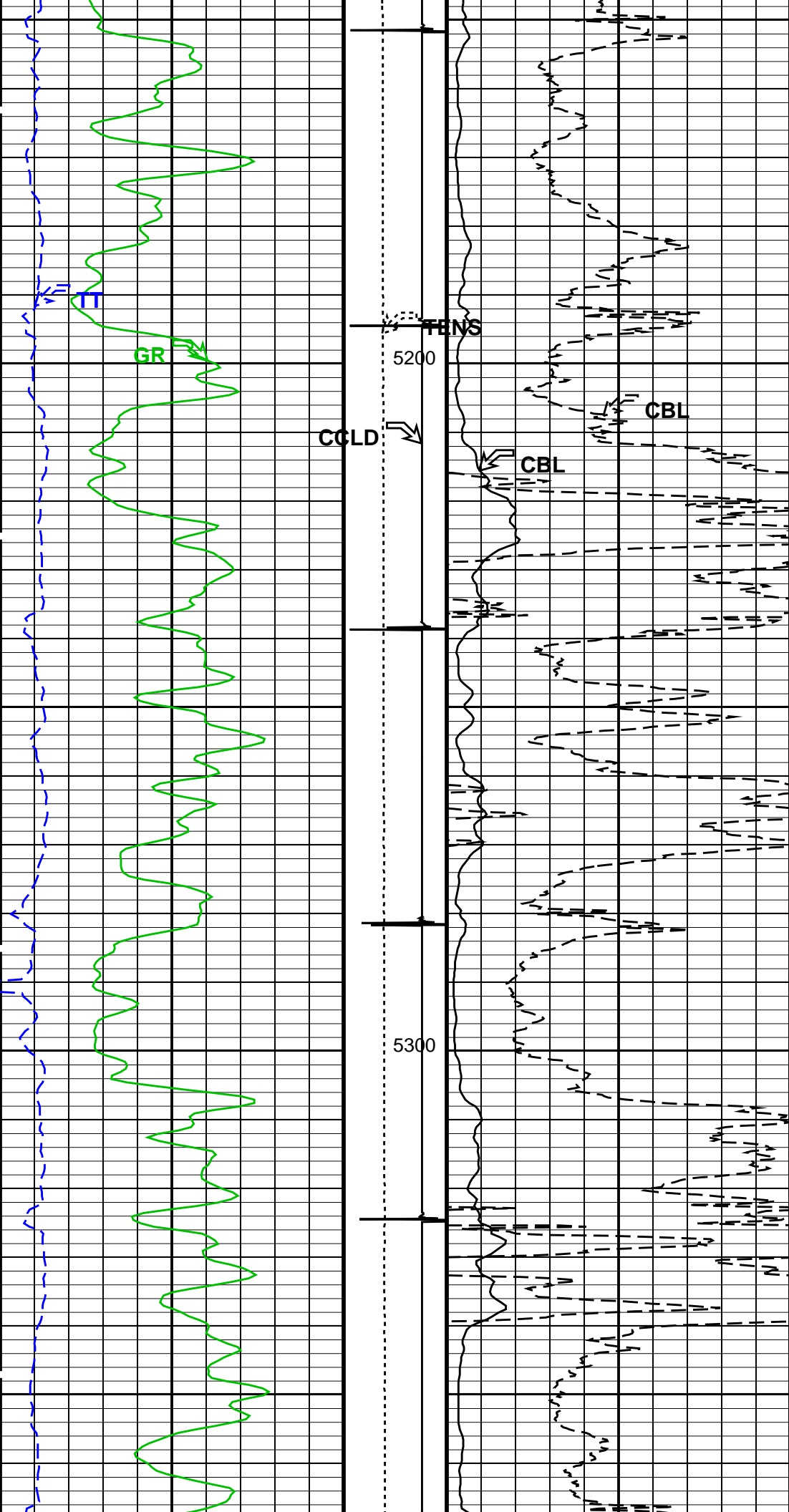


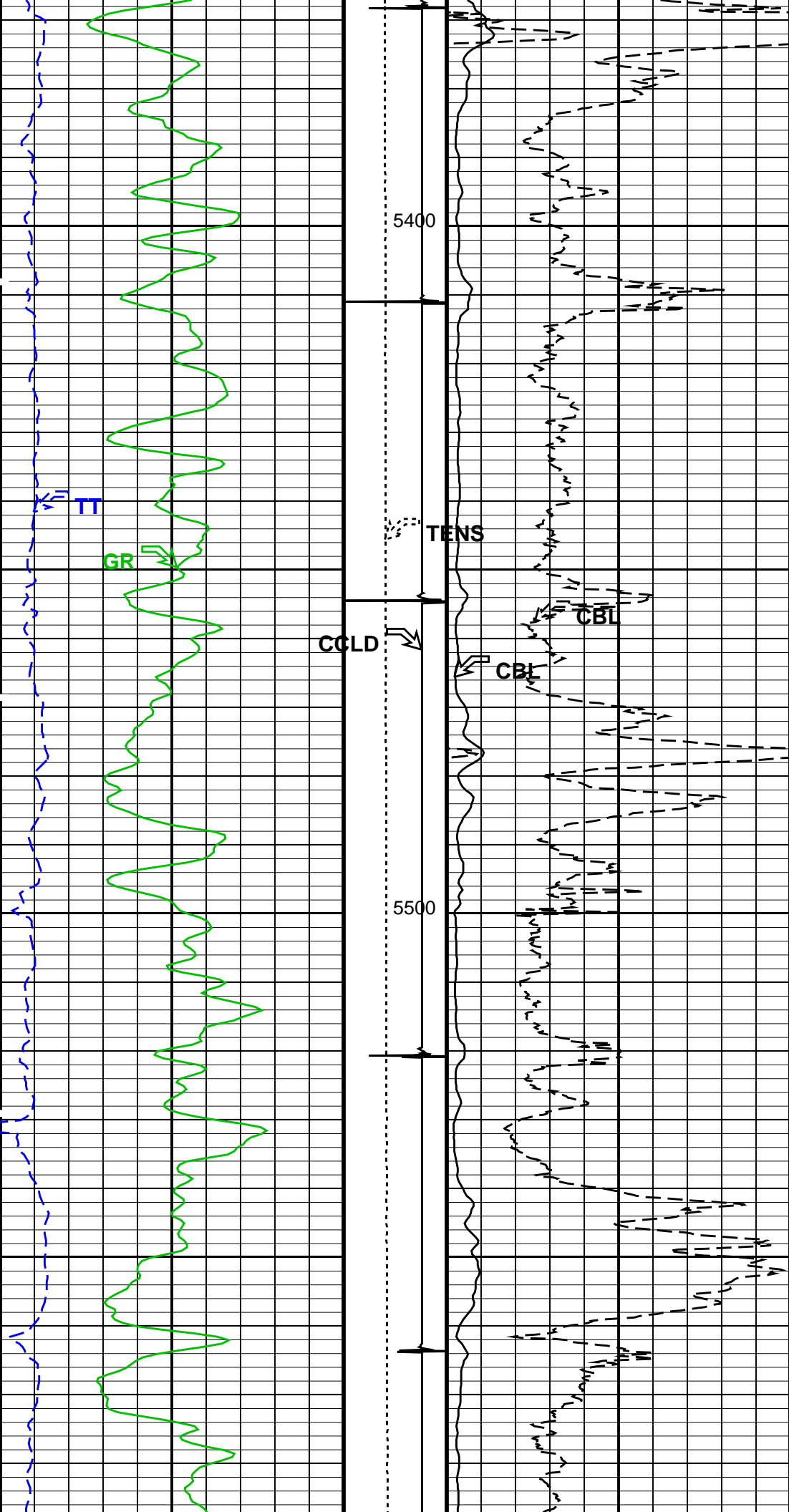


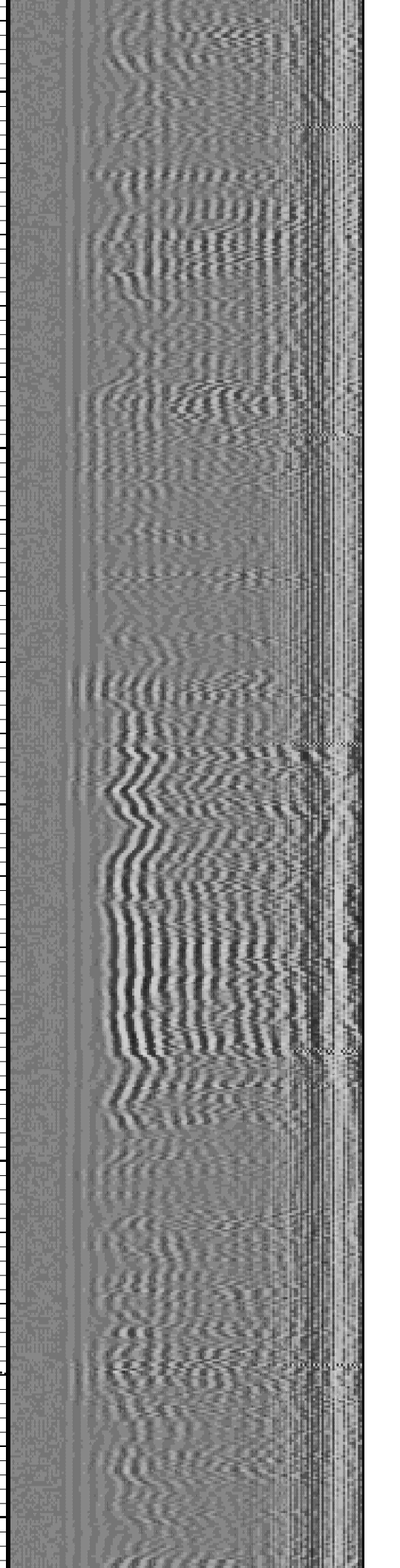
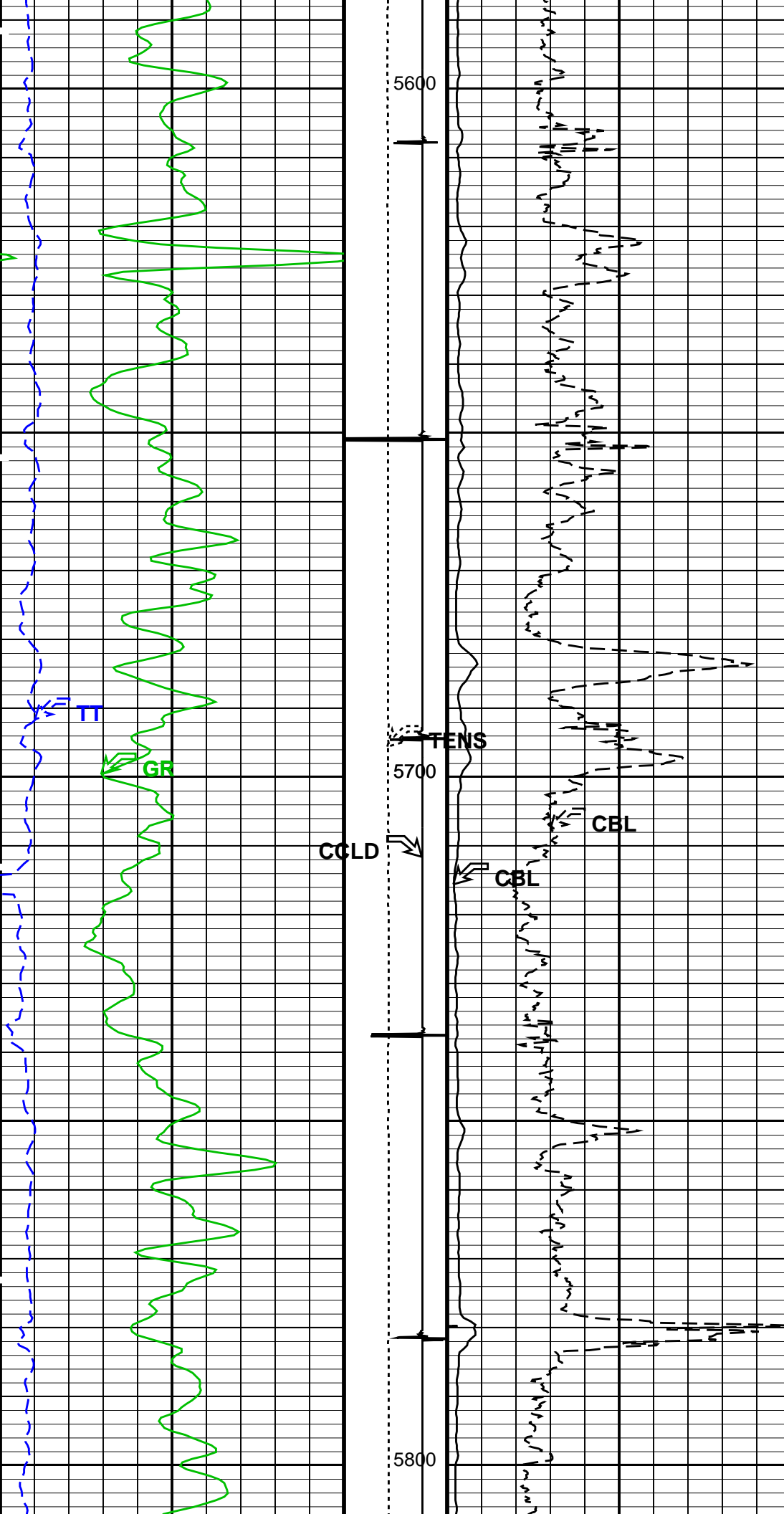


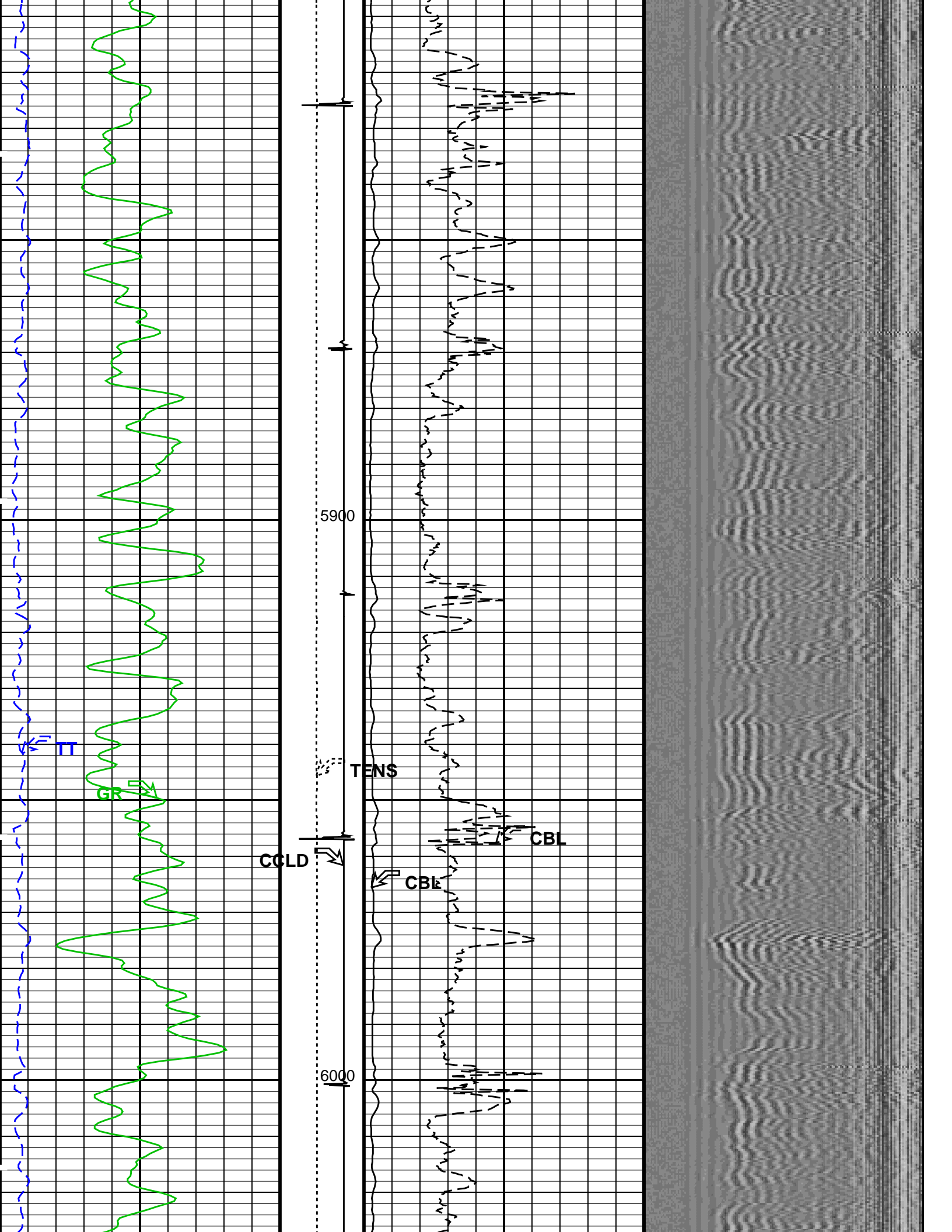


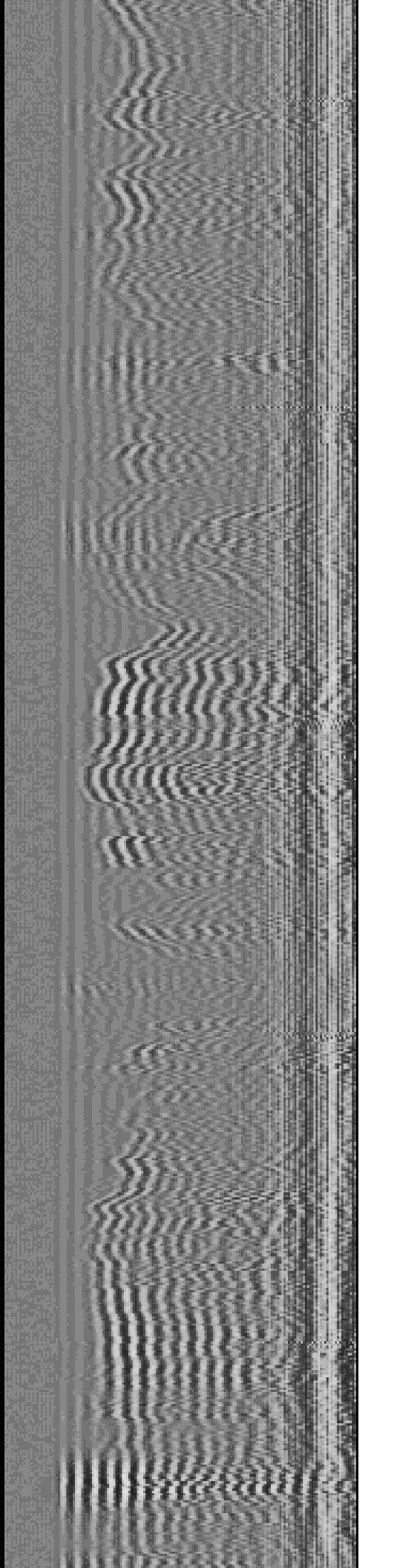
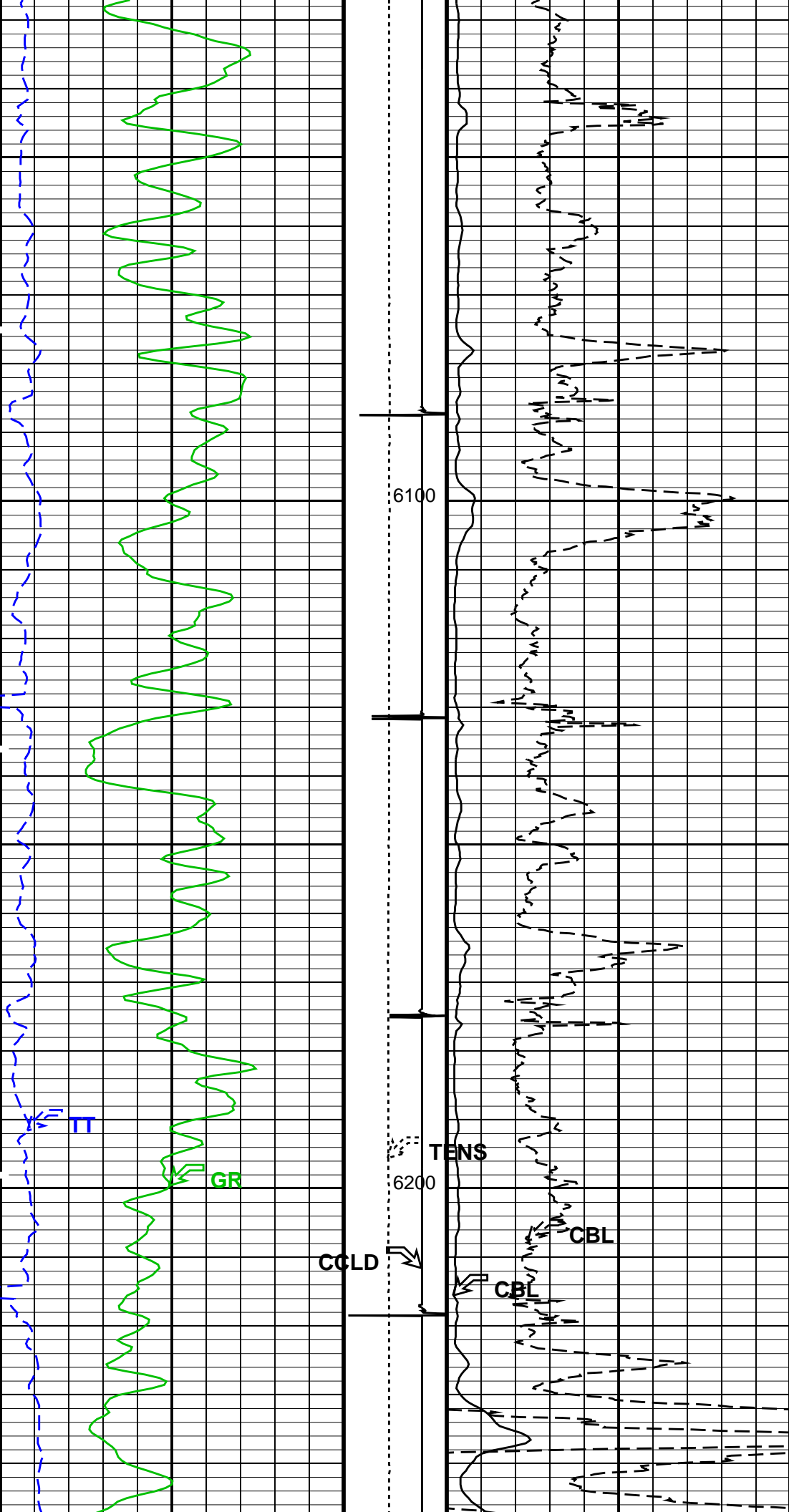


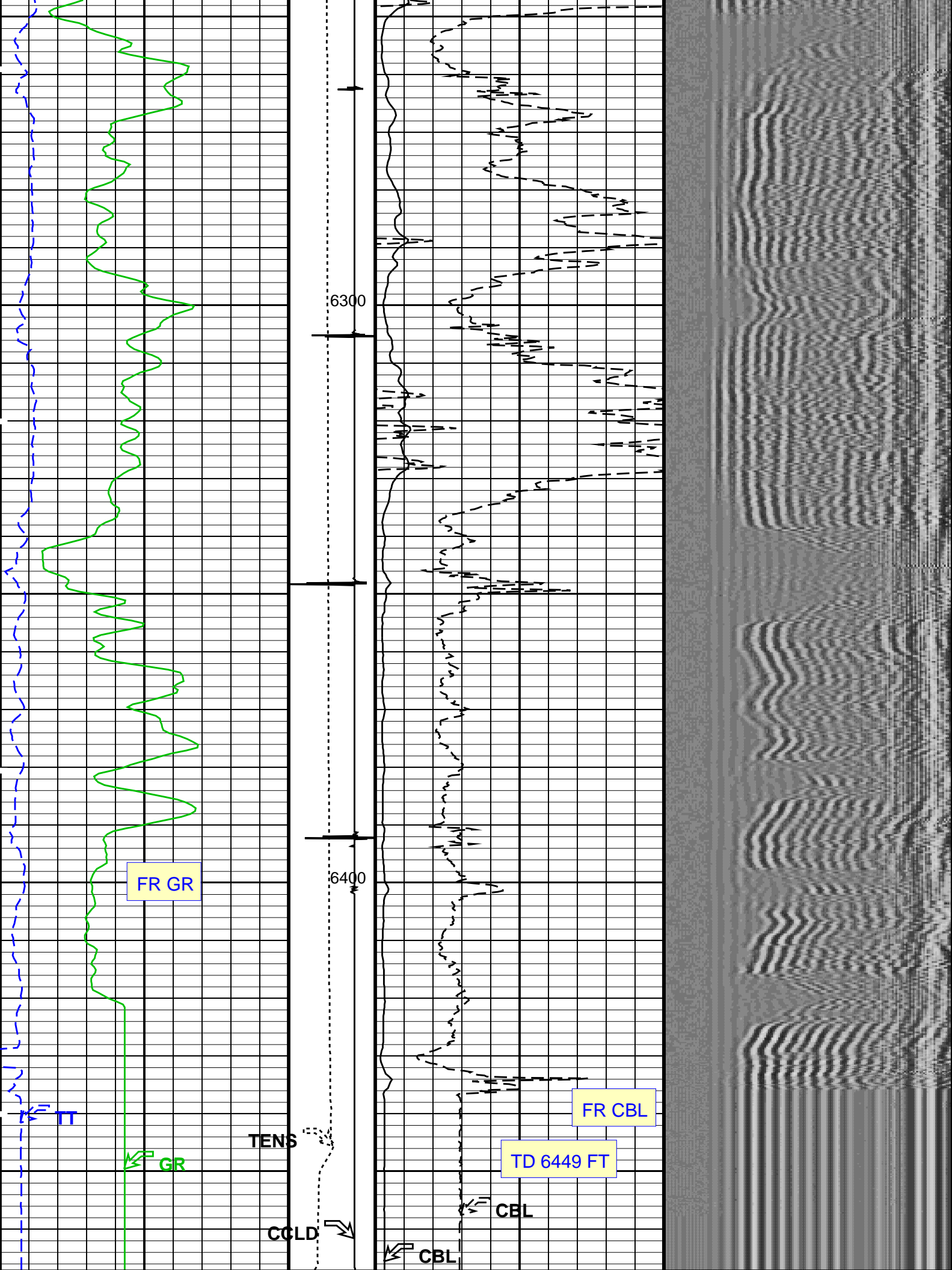












Gamma Ray (GR) (GAPI)		Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)		Min	Amplitude										Max			
0	150	0 2000	0	100	VDL VariableDensity (VDL) (US)														
Transit Time (TT) (US)		Discriminat ed CCL (CCLD)	CBL Amplitude (CBL) (MV)																
260	160	3 (V) -1	0	10															
PIP SUMMARY																			
Time Mark Every 60 S																			
Format: CBL_VDL Vertical Scale: 5" per 100' Graphics File Created: 06-Oct-2011 15:48																			
OP System Version: 19C0-187																			
SCMT-CB PSPT		SRPC-5095-H2-2011-OP19_b 19C0-187			RST-C		SRPC-5095-H2-2011-OP19_b												
<<<SCMT Cement Evaluation Information Summary>>>																			
Sonde Serial Number		SCMS-CB 8186																	
Current Casing Size		4.50000 IN																	
Casing Weight		11.6000 LB/F																	
Expected CBL Amplitude in Free Pipe Section		80 MV		Minimum Sonic Amplitude		0.579149 MV (100% Cement) 1.55185 MV (80% Cement)													
				MAP Minimum Sonic Amplitude		4.32284 MV (100% Cement) 8.10244 MV (80% Cement)													
Master Calibration (Normalization)				Before Calibration (Adjustment)															
Date of Master Calibration		23-FEB-2011																	
CBL Correction Factor		0.0700110		CBL Adjustment Factor (CBAF)		1.0													
MAP 1 Correction Factor		0.0960446		MAP Adjustment Factor (MPAF)		1.0													
MAP 2 Correction Factor		0.103019																	
MAP 3 Correction Factor		0.112474																	
MAP 4 Correction Factor		0.170246																	
MAP 5 Correction Factor		0.138168																	
MAP 6 Correction Factor		0.126543																	
MAP 7 Correction Factor		0.0891491																	
MAP 8 Correction Factor		0.107987																	
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										40		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	4.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	-50000	FT

Input DLIS Files

DEFAULT SCMT_RST_PSP_086LUP FN:85 PRODUCER 06-Oct-2011 14:04 6463.0 FT 134.0 FT

Output DLIS Files

DEFAULT SCMT_RST_PSP_090PUP FN:89 PRODUCER 06-Oct-2011 15:48



REPEAT ANALYSIS

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC. Well: DAYBREAK FEDERAL 19-8BB (PJ19)

Input DLIS Files

DEFAULT SCMT_RST_PSP_086LUP FN:85 PRODUCER 06-Oct-2011 14:04 6463.0 FT 134.0 FT
DEFAULT SCMT_RST_PSP_089PUP FN:88 PRODUCER 06-Oct-2011 15:47 5658.0 FT 5258.0 FT

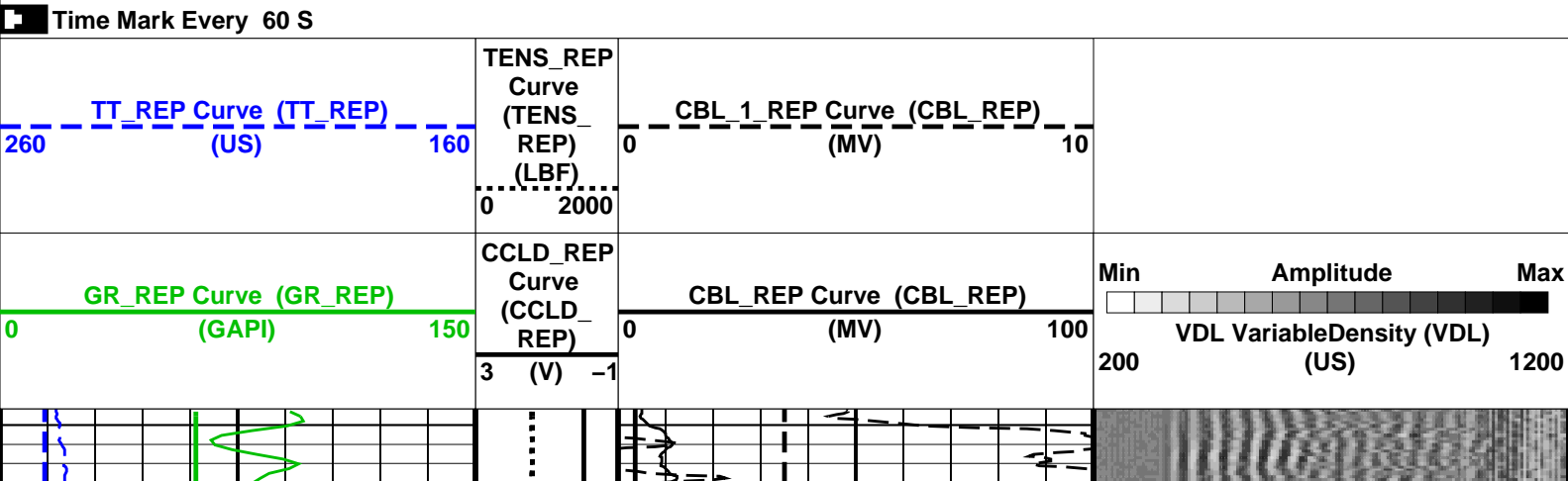
Output DLIS Files

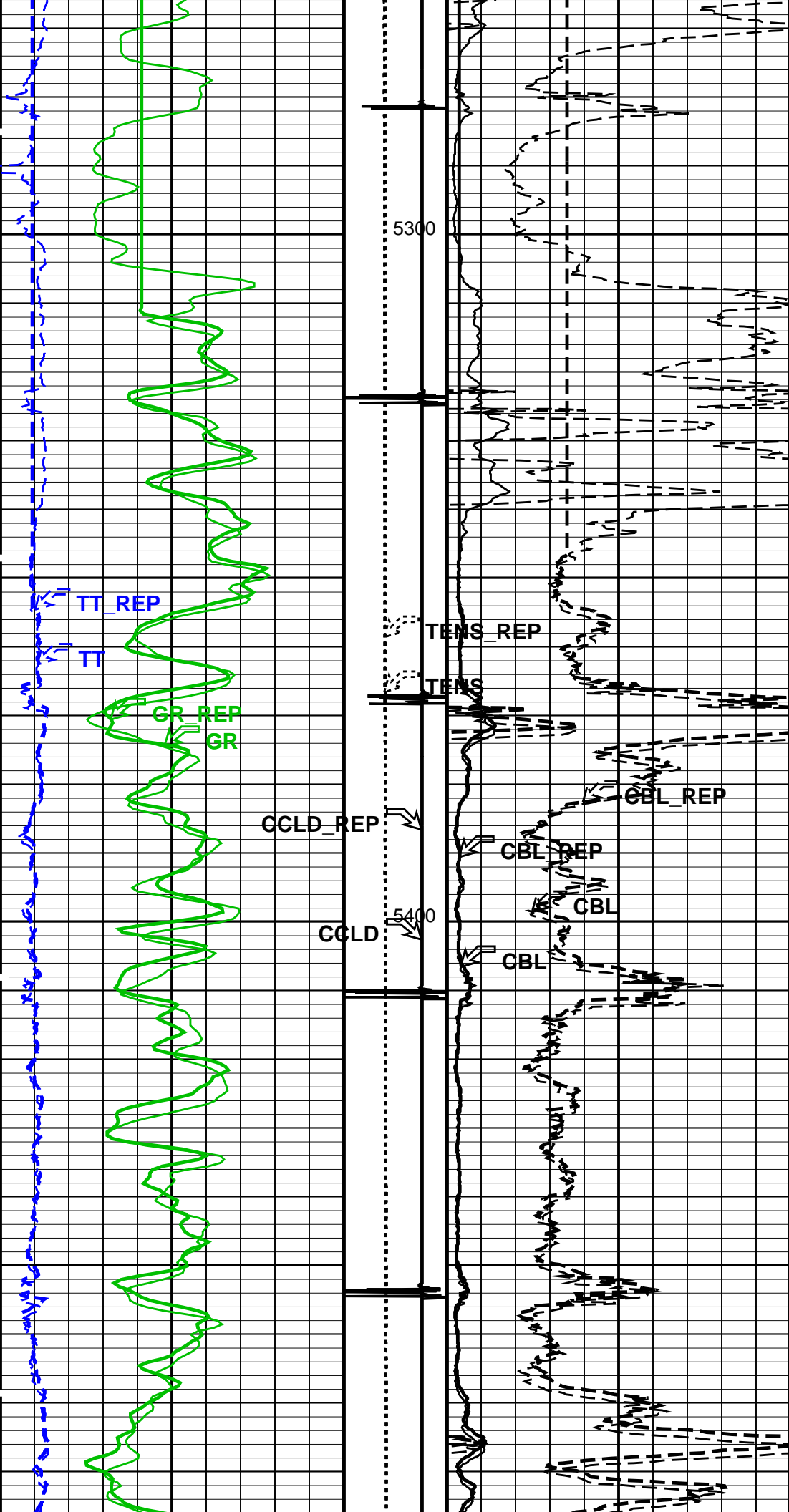
DEFAULT SCMT_RST_PSP_090PUP FN:89 PRODUCER 06-Oct-2011 15:48

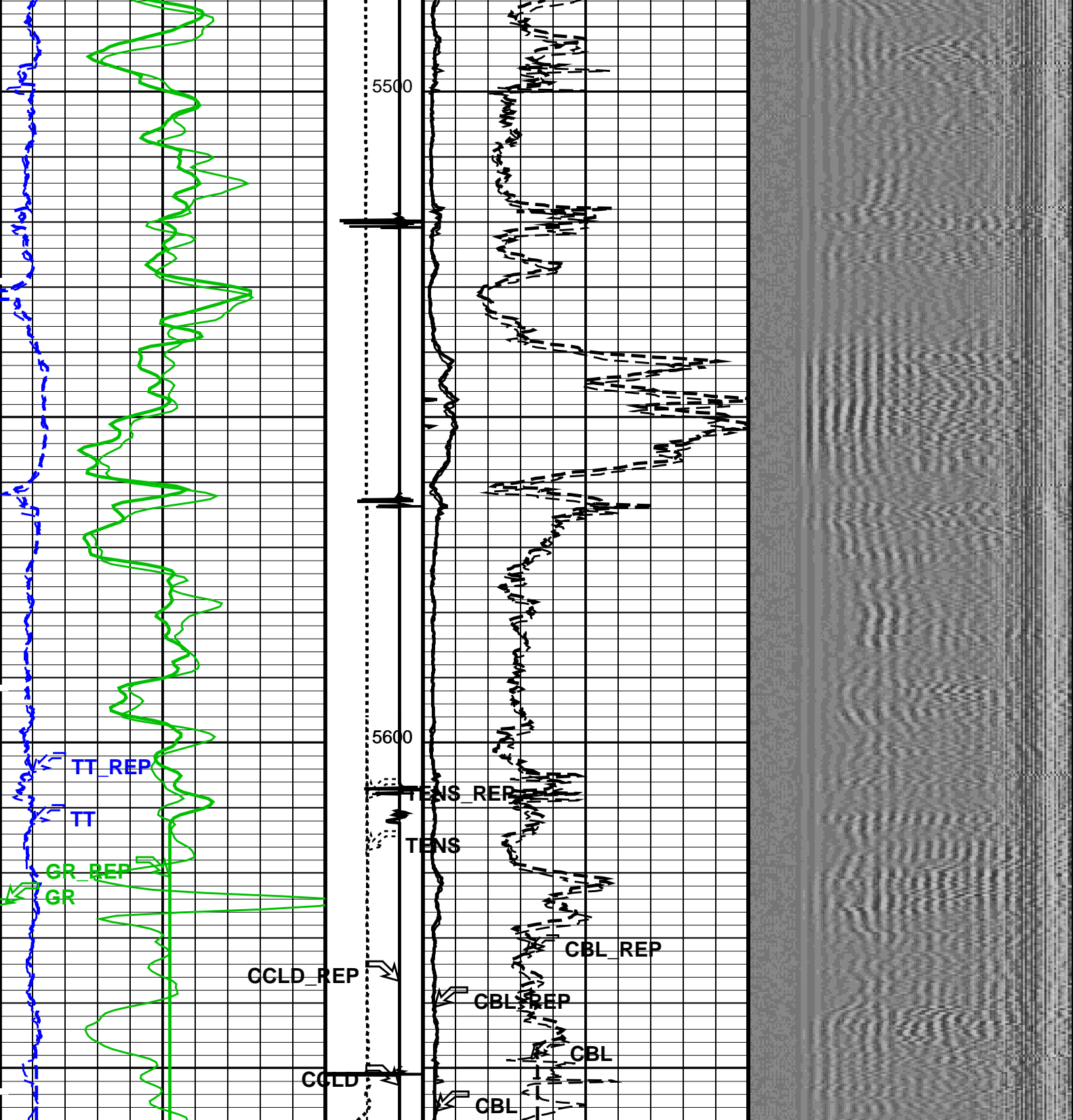
OP System Version: 19C0-187

SCMT-CB SRPC-5095-H2-2011-OP19_b RST-C SRPC-5095-H2-2011-OP19_b
PSPT 19C0-187

PIP SUMMARY







<p>GR_REP Curve (GR_REP) (GAPI)</p> <p>0 150</p>	<p>CCLD_REP Curve (CCLD_REP) (V)</p> <p>3 -1</p>	<p>CBL_REP Curve (CBL_REP) (MV)</p> <p>0 100</p>	<p>Min Amplitude Max</p> <p>200 VDL VariableDensity (VDL) (US) 1200</p>
<p>TT_REP Curve (TT_REP) (US)</p> <p>260 160</p>	<p>TENS_REP Curve (TENS_REP) (LBF)</p> <p>0 2000</p>	<p>CBL_1_REP Curve (CBL_REP) (MV)</p> <p>0 10</p>	

PIP SUMMARY

OP System Version: 19C0-187

SCMT-CB SRPC-5095-H2-2011-OP19_b RST-C SRPC-5095-H2-2011-OP19_b
PSPT 19C0-187

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8186		
Current Casing Size	4.50000 IN		
Casing Weight	11.6000 LB/F		
Expected CBL Amplitude in Free Pipe Section	80 MV	Minimum Sonic Amplitude	0.579149 MV (100% Cement)
			1.55185 MV (80% Cement)
		MAP Minimum Sonic Amplitude	4.32284 MV (100% Cement)
			8.10244 MV (80% Cement)
Master Calibration (Normalization)	Before Calibration (Adjustment)		
Date of Master Calibration	23-FEB-2011		
CBL Correction Factor	0.0700110	CBL Adjustment Factor (CBAF)	1.0
MAP 1 Correction Factor	0.0960446	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.103019		
MAP 3 Correction Factor	0.112474		
MAP 4 Correction Factor	0.170246		
MAP 5 Correction Factor	0.138168		
MAP 6 Correction Factor	0.126543		
MAP 7 Correction Factor	0.0891491		
MAP 8 Correction Factor	0.107987		

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	40	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	4.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	NORMAL	

TD	Daybreak Processing	Total Depth	NO. OF RECORDS	–50000	FT
Input DLIS Files					
DEFAULT	SCMT_RST_PSP_086LUP	FN:85	PRODUCER	06–Oct–2011 14:04	6463.0 FT
DEFAULT	SCMT_RST_PSP_089PUP	FN:88	PRODUCER	06–Oct–2011 15:47	5658.0 FT
Output DLIS Files					
DEFAULT	SCMT_RST_PSP_090PUP	FN:89	PRODUCER	06–Oct–2011 15:48	



COEFFICIENTS

MAXIS Field Log

Client:	ENCANA OIL & GAS (USA) INC.	Tool:	PSP
Field:	PARACHUTE	Sub Type:	PBMS
Well:	DAYBREAK FEDERAL 19–5 (PJ19)	Sensor:	Clock Model
Run date:	5–Oct–2011		

PBMS Digitalization Clock

Sonde Serial NB	
Sensor Serial NB	3779
Calib Date ddmmyy	090107
Matrix Size	16
Coeff CRC	D285

Clock Coeff

	Temp**0	Temp**1	Temp**2
Temp**0	–.210501098404E+03	–.537713340627E+01	–.752421519422E–01
	Temp**3	Temp**4	Temp**5
Temp**0	+.630273975887E–03	+.266728381738E–05	0.0

Client:	ENCANA OIL & GAS (USA) INC.	Tool:	PSP
Field:	PARACHUTE	Sub Type:	PBMS

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR SAPPHIRE PBMS-A.3779 S/N:
3779
090107
66
4C82

Pres Coeff

	Tt**0	Tt**1	Tt**2
Tp**0	-.611876617639E+04	+.471061007964E+04	-.216447354932E+04
Tp**1	+.371836126905E+04	-.234756196935E+04	+.129149325686E+04
Tp**2	+.193143980957E+02	-.189348218853E+01	-.341812471126E+01
Tp**3	-.568815065386E+01	+.200079683569E+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	+.380249508124E+03	-.247683004908E+02	0.0
Tp**1	-.227135245080E+03	+.146352372057E+02	0.0
Tp**2	0.0	0.0	0.0
Tp**3	0.0	0.0	0.0
Tp**4	0.0	0.0	0.0
Tp**5	0.0	0.0	0.0

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

:

3779
090107
66
C39E

Temp Coeff

	Tp**0	Tp**1	Tp**2
Tt**0	-.278275571347E+03	+.251216271916E+01	-.820715649824E+00
Tt**1	+.598349067015E+02	-.107326373545E+01	+.652890183203E-01
Tt**2	+.109160002120E+02	+.262812193556E+00	-.450134240377E-02
Tt**3	-.673302171285E+00	-.213772918779E-01	0.0
Tt**4	0.0	0.0	0.0

Tt**5	0.0	0.0	0.0
	TP**3	TP**4	TP**5
Tt**0	+.151507143209E+00	-.592670012996E-02	0.0
Tt**1	+.127486538512E-01	-.437897076104E-02	0.0
Tt**2	0.0	0.0	0.0
Tt**3	0.0	0.0	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0

Client:	ENCANA OIL & GAS (USA) INC.	Tool:	PSP
Field:	PARACHUTE	Sub Type:	PBMS
Well:	DAYBREAK FEDERAL 19-5 (PJ19)	Sensor:	GR
Run date:	5-Oct-2011		

PBMS Gamma Ray

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

RESISTORS FOR GR SENSOR N.34552,TOOL PBMS-AA3779. SENSOR S/N:

34552

030606

12

3AE5

GR HV Rt

	Rt**0	Rt**1
Rt**0	+.200000000000e+04	+.214000000000e+04

Client:	ENCANA OIL & GAS (USA) INC.	Tool:	PSP
Field:	PARACHUTE	Sub Type:	PBMS
Well:	DAYBREAK FEDERAL 19-5 (PJ19)	Sensor:	WellTemp RTD
Run date:	5-Oct-2011		

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR RTD THERMOMETER PBMS–A.3779 S/N:
3779
090107
16
3846

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	+.492135102627E+02	–.278827553804E+03	+.142867554561E+03
	Tt**3	Tt**4	Tt**5
Tt**0	–.233378392336E+02	+.145553494493E+01	0.0

Company: ENCANA OIL & GAS (USA) INC.

Schlumberger

Well:

Field:

County:

State:

DAYBREAK FEDERAL 19–8BB (PJ19)
PARACHUTE
GARFIELD
COLORADO

CEMENT BOND LOG
CBL – VDL
GAMMA RAY – CCL