

Company: Raz Oil and Gas, LLC

Well: YO State SWD 1

Field: Osudo South Morrow

County: Lea State: New Mexico

Cement Bond Log

Gamma Ray - CCL

Lea
Osudo South Morrow
600' FNL & 840' FWL
YO State SWD 1
Raz Oil and Gas, LLC

600' FNL & 840' FWL	Elev.:	K.B.	3603.00 ft
Section: 15, Township: T21S, Range: 35E		G.L.	3587.00 ft
		D.F.	3602.00 ft
Permanent Datum:	Ground Level	Elev.:	3587.00 f
Log Measured From:	Kelly Bushing	16.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Section:	Township:	Range:
30-025-38162	15	21S	35E

Logging Date 19-Mar-2017

Run Number Two A

Depth Driller 12500.00 ft

Schlumberger Depth 12400.00 ft

Bottom Log Interval 12400.00 ft

Top Log Interval 0.00 ft

Casing Fluid Type Fresh Water

Salinity

Density 9 lbm/gal

Fluid Level 16.00 ft

BIT/CASING/TUBING STRING

Bit Size 8.75 in

From 5420.00 ft

To 12534.00 ft

Casing/Tubing Size 7 in

Weight 26 lbm/ft

Grade J55

From 16.00 ft

To 12534.00 ft

Max Recorded Temperatures 177 degF

Logger on Bottom 19-Mar-2017 09:41:00

Unit Number 9107 Location: Midland, TX

Recorded By C. Henson

Witnessed By Ben Thompson

Disclaimer

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Remarks and Equipment Summary

Two A: Toolstring					Two A: Remarks
Equip name	Length		MP name	Offset	Toolstring run as per toolsketch.
LEH-QC	51.81				Logging Obj: IBC-CBL from RBP to surface under 1000PSI.
CAL-YA	49.35				TD not tagged due to sensitivity of rotating sub.
CAL-YA			CCL	48.56	Fluid in hole: fresh.
DTC-H	45.85				Casing; 7in 26lb
ECH-KC			CTEM	44.95	Well displaced with 8.4ppg water spacer.
DTC-H			HV	0.00	Stage 1 Cement Tail: 14.8ppg Corrosacem TM, 49bbl. Cementer Est Top 11560ft, 1000ft fill
			TelStatus	42.85	Stage 1 Cement Lead: 10.3ppg, Tuned Light, 82.5 bbl. Cementer est top: 9800ft, 1760ft fill.
			ToolStatus	42.85	Stage 1 Spacer: 8.4ppg Gel Spacer, 20bbl. 400ft fill.
SGT-N	42.85				Stage 1 Spacer: 8.4ppg Gel Spacer, 20bbl. 400ft fill.
SGH-K			GR	41.93	Stage 2 Cement Tail: 14.8ppg Halcem TM, 23.6bbl, Cementer Est top: 9296ft. 504ft fill
SGC-TB					Stage 2 Cement Lead: 10.3ppg, Tuned Light. 183bbl. Cementer Est top: 5370ft. 3926ft fill.
SGD-TAA					Stage 2 Spacer: 8.4ppg Gel Spacer. 20bb. 400ft fill.
DSLT-H:8	37.35				Stage 3 Cement Tail: 14.8ppg Halcem TM. 23.7bbl. Cementer Est top: 4530ft. 840ft fill.
210					Stage 3 Cement Lead: 12.5ppg Halcem TM. 127.9bbl. Cementer Est top: 0ft. 4530ft fill.
ECH-KH:8					Crew: Ron, Keontay, Charlie
857					
DSLC-H:82					
10					
SLS-E:165					
		CBL 3ft	24.88		
		Upper-Near	24.88		
		VDL 5ft	23.88		
		Upper-Far	23.88		
		Delta-T	22.5		
		Lower-Far	21.13		
		Lower-Near	20.13		
		SLS-E	16.71		
USIT-E:99	16.71				
2					

EGH-MFA:
1964
USAC-A:9
92
USIS-A:17
39
USSC-B
IBCS-B:79
4
FAR-SENS
OR
NEAR-SEN
SOR
USI-SENS
OR
EMITTER-
SENSOR:4
495



Lengths are in ft
Maximum Outer Diameter = 6.250 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

Two A

Depth Measuring Device

Type	IDW-B		
Serial Number	6224		
Calibration Date	18-nov-2016		
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	-3		
Wheel Correction 2	-3		

Tension Device

Type	CMTD-B/A		
Serial Number	3728		
Calibration Date	07-mar-2017		
Calibrator Serial Number			
Number of Calibration Points	10		
Calibration Root Mean Square Error	16		
Calibration Peak Error	24		

Logging Cable

Type	7-32AS-XS		
Serial Number			
Length	26500.00 ft		
Conveyance Type	Wireline		
Rig Type	Land		

Two A:Depth Control Parameters	Depth Control Remarks
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Log Sequence	First Log In the Well	IDW used as primary depth control.
Rig Up Length At Surface	129.30 ft	Z Chart used as secondary depth control

Rig Up Length At Surface	129.30 ft	Z-Chart used as secondary depth control.
Rig Up Length At Bottom	129.20 ft	Main and repeat pass correlated to SLB Platform Express. 2-Mar-2007. Michael Everitt.
Rig Up Length Correction	0.10 ft	Correlated at GR peak at 12078ft.
Stretch Correction		
Tool Zero Check At Surface	0.20 ft	

Composite 1

Main Pass 5" = 100'

Software Version

Acquisition System	Version
Maxwell 2017	7.0.78557.3100
Application Patch	Wireline_NPD-PNX-2017CMZ_7.0.82859
	Wireline_Hotfix-DLIS-2017CMZ_7.0.80395
	Wireline_Hotfix-MAST-2017CMZ_7.0.78787
	Wireline_Hotfix-ASLT-QSLT-SSLT-2017CMZ_7.0.80854
	Wireline_NPD-SLIM-2017CMZ_7.0.82543

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Two A	Log[5]:Up	Up	1930.37 ft	12391.76 ft	19-Mar-2017 9:53:15 AM	19-Mar-2017 2:05:46 PM	ON	1.33 ft	Yes
Two A	Log[6]:Up	Up	1456.92 ft	2102.38 ft	19-Mar-2017 2:10:43 PM	19-Mar-2017 2:25:45 PM	ON	1.60 ft	Yes
Two A	Log[7]:Up	Up	57.04 ft	1612.62 ft	19-Mar-2017 2:30:37 PM	19-Mar-2017 3:06:37 PM	ON	1.83 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Raz Oil and Gas, LLC Well:YO State SWD 1
Composite 1:S004

Description: CBL_VDL Format: Log (CH CBL VDL 5) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Mar-2017 15:25:01

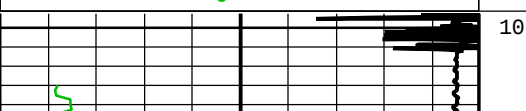
Channel	Source	Sampling
GR	SGT-N[1]:SGT-N[1]:SGC-TB[1]	6in
TIME_1900	WLWorkflow	0.1in
CBL	DSL-T-H[1]:SLS-E[1]:SLS-E[1]	6in
CCL	CAL-YA[1]:CAL-YA[1]:CAL-YA[1]	1in
TENS	WLWorkflow	1in
TT	DSL-T-H[1]:SLS-E[1]:SLS-E[1]	6in

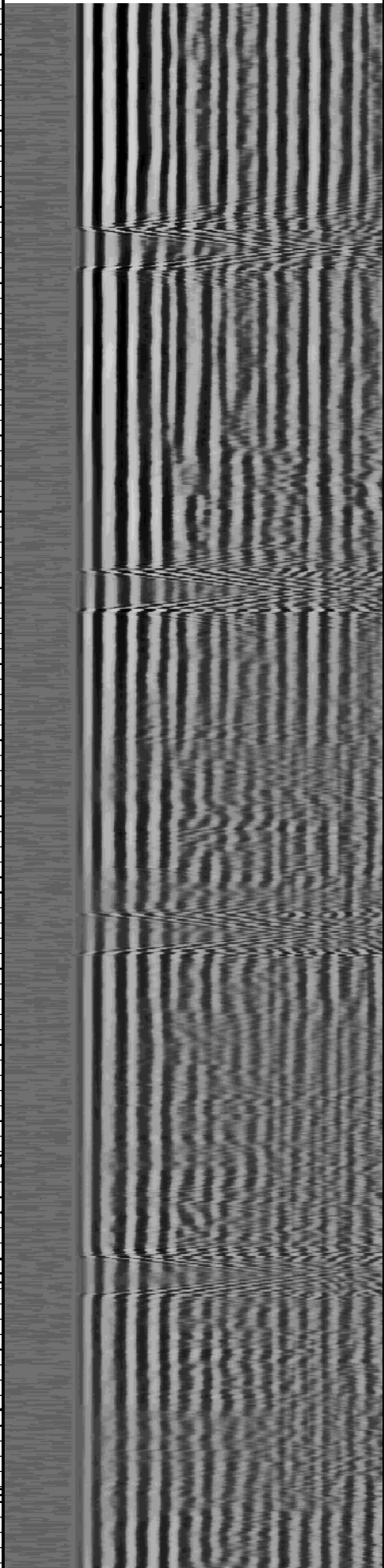
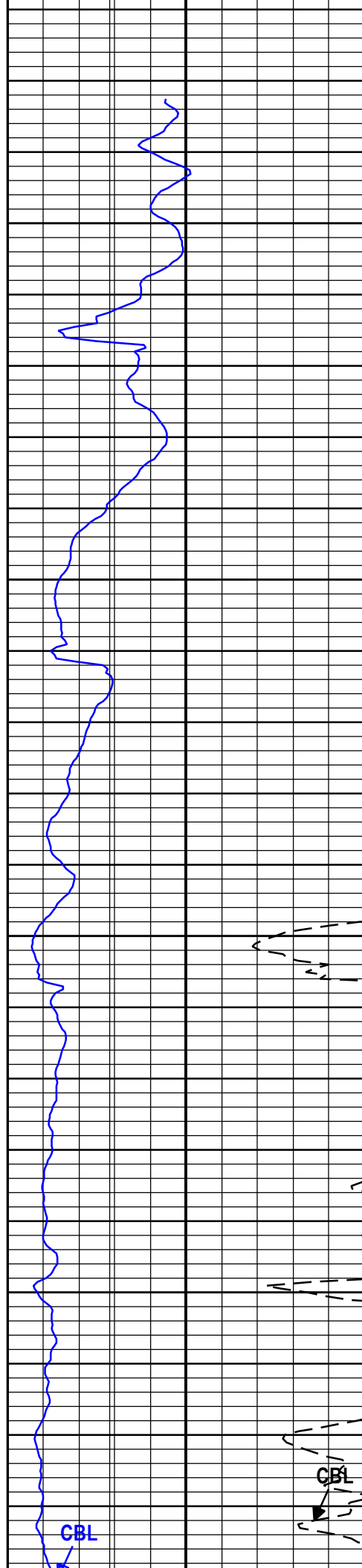
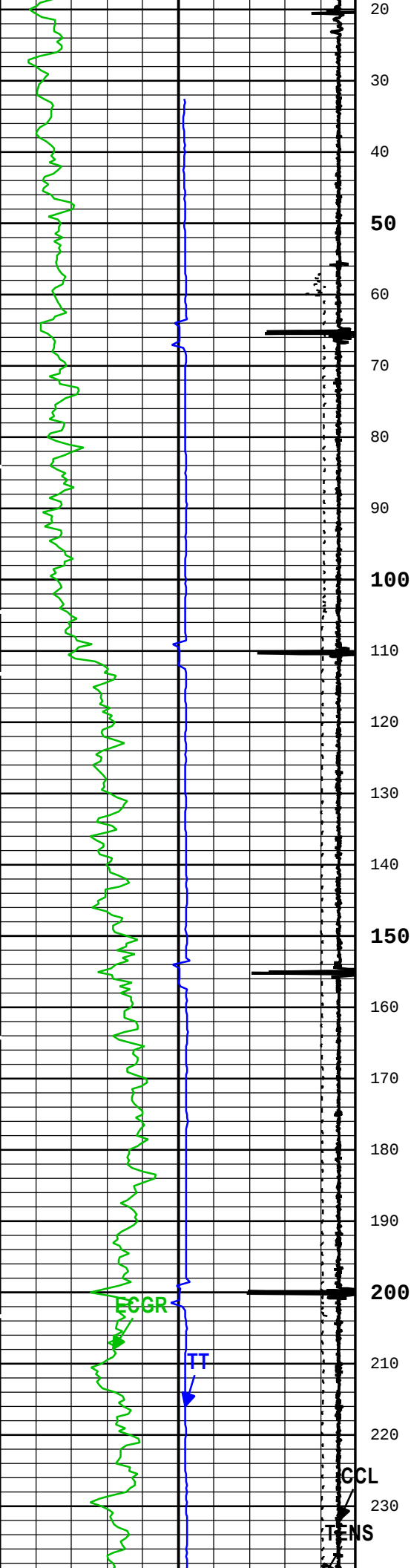
TIME_1900 - Time Marked every 60.00 (s)

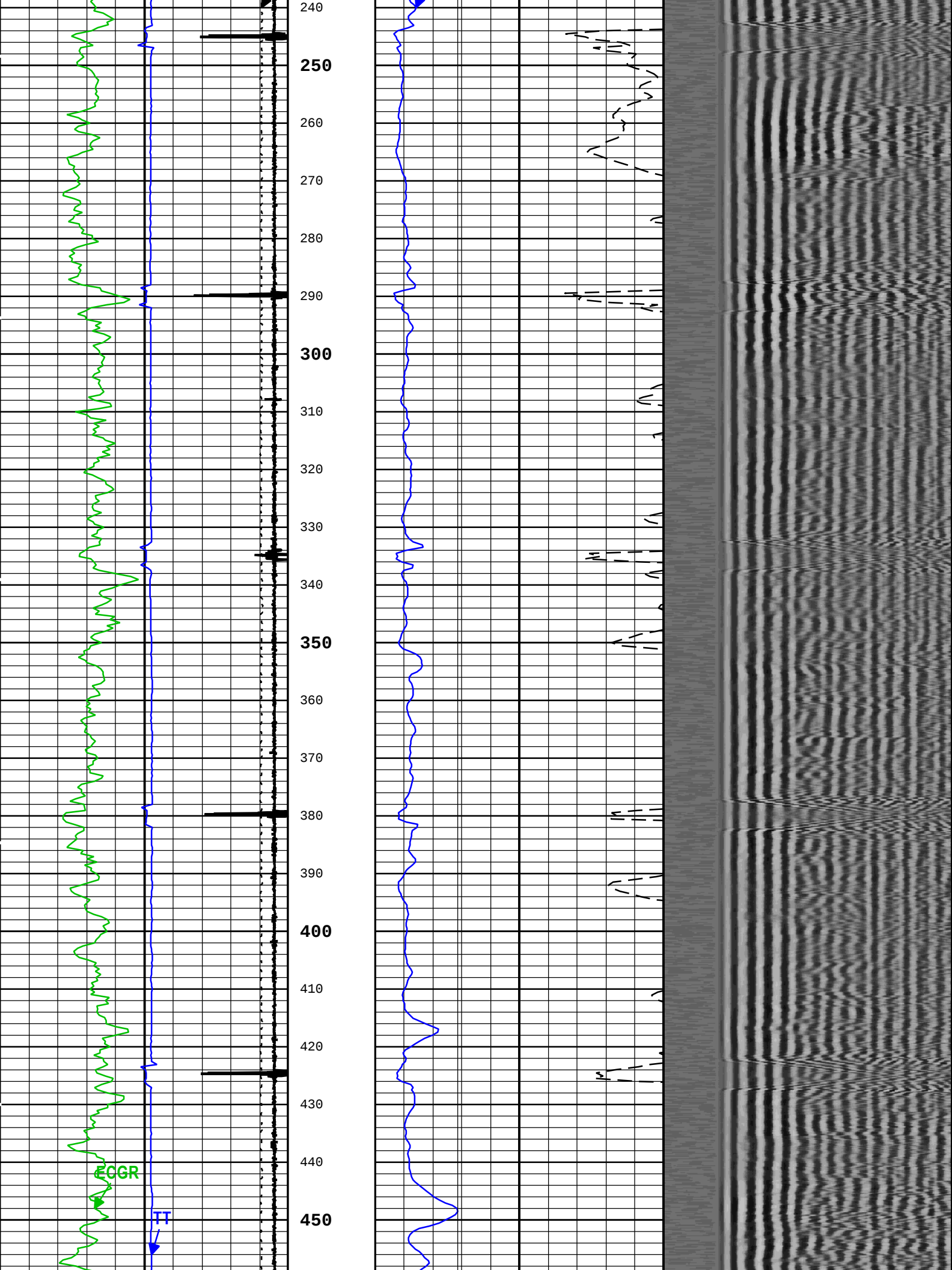
Cable Tension (TENS)		
10000	lbf	0
Casing Collar Locator Amplitude (CCL) CAL-YA[1]		
-19		1
Transit Time for CBL (TT) DSL-T-H[1]		
400	us	200
Gamma Ray (ECGR) SGT-N[1]		
0	gAPI	150

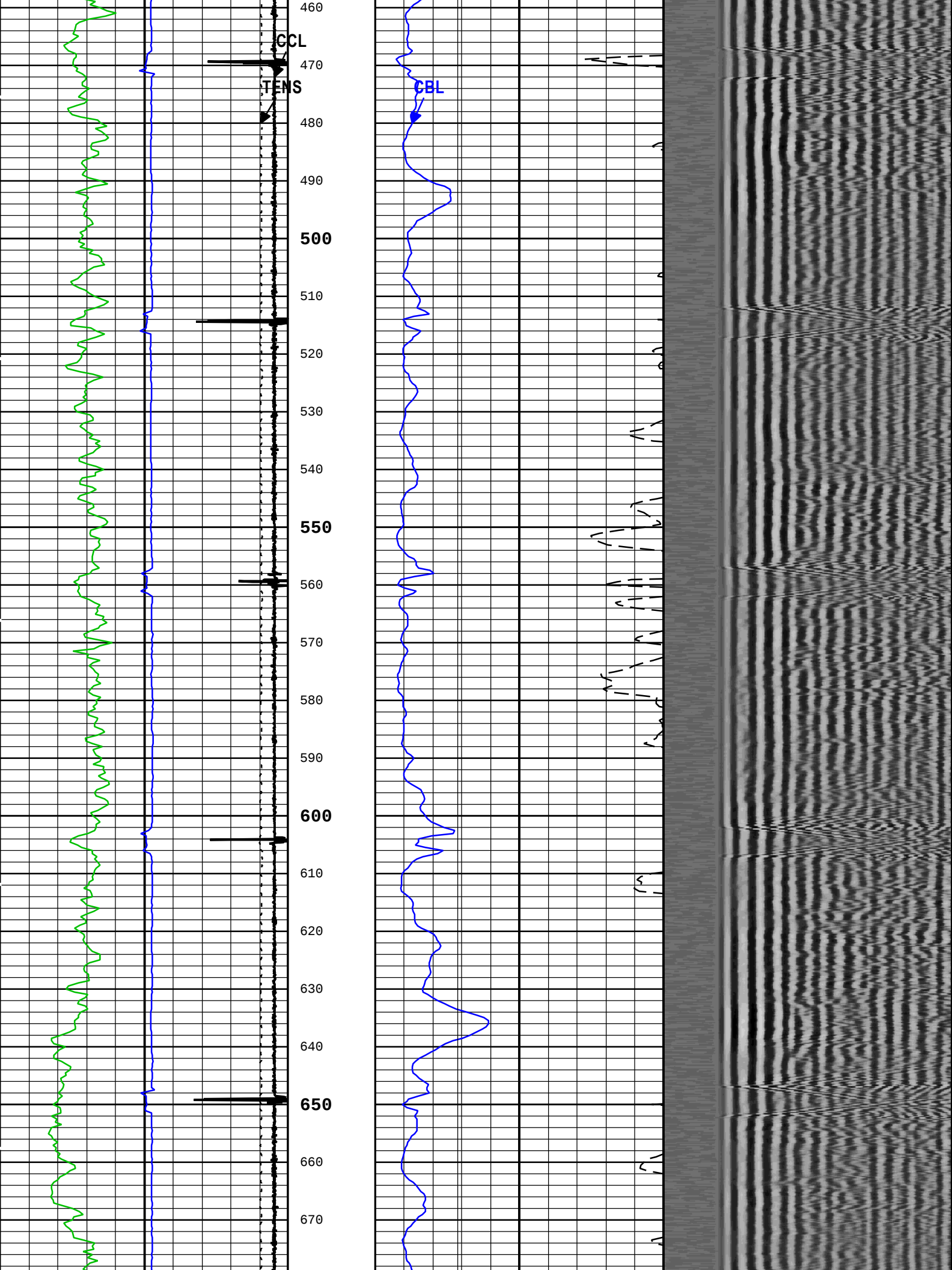
CBL Amplitude (CBL) DSL-T-H[1]		
0	mV	100
CBL Amplitude (CBL) DSL-T-H[1]		
0	mV	10
Good Bond (GOBO)		
0	mV	10
GoodBond From ACBL to GOBO		
200	us	1200

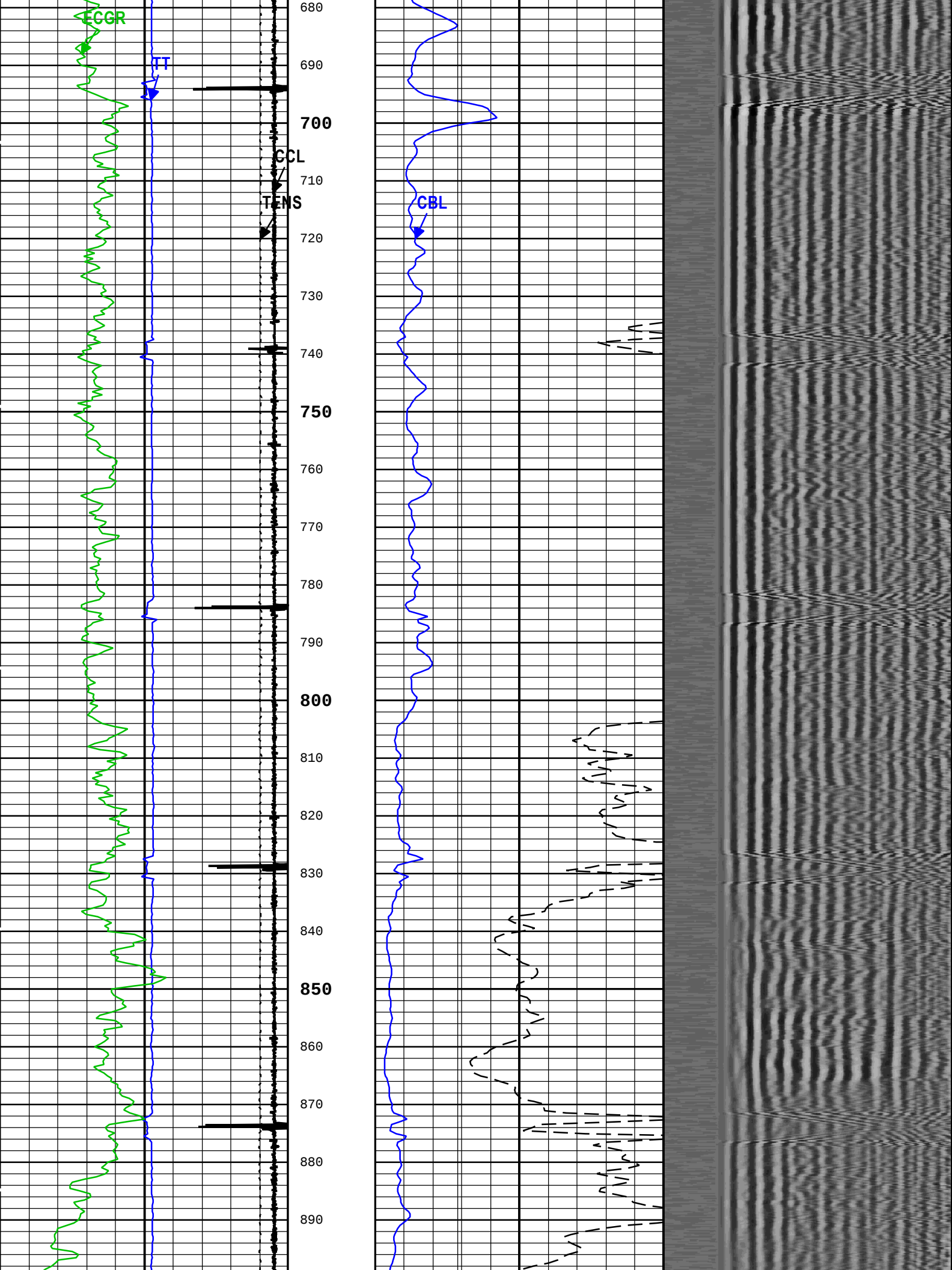
Min	Amplitude	Max
SWF1 VariableDensity (WF1_VDL) DSL-T-H[1]		
200	us	1200

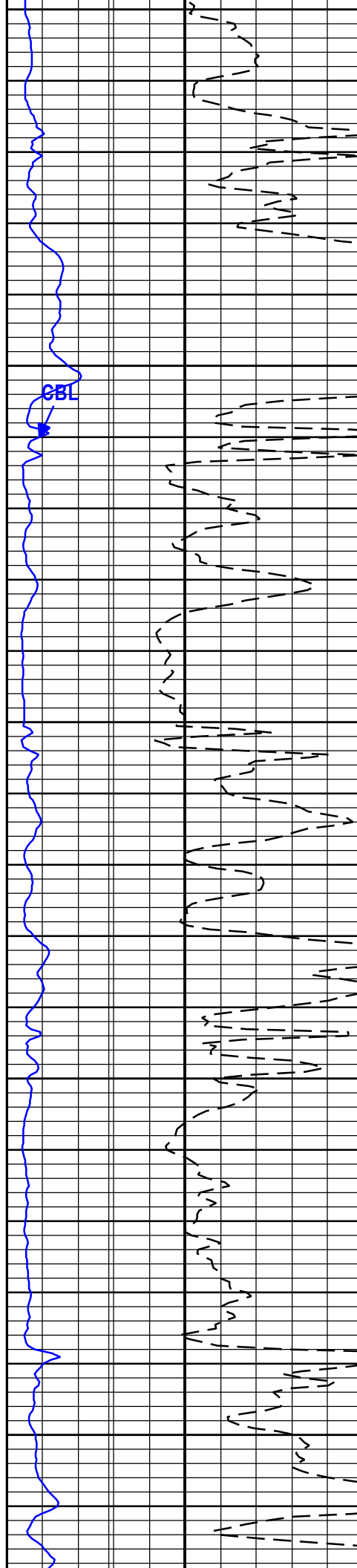
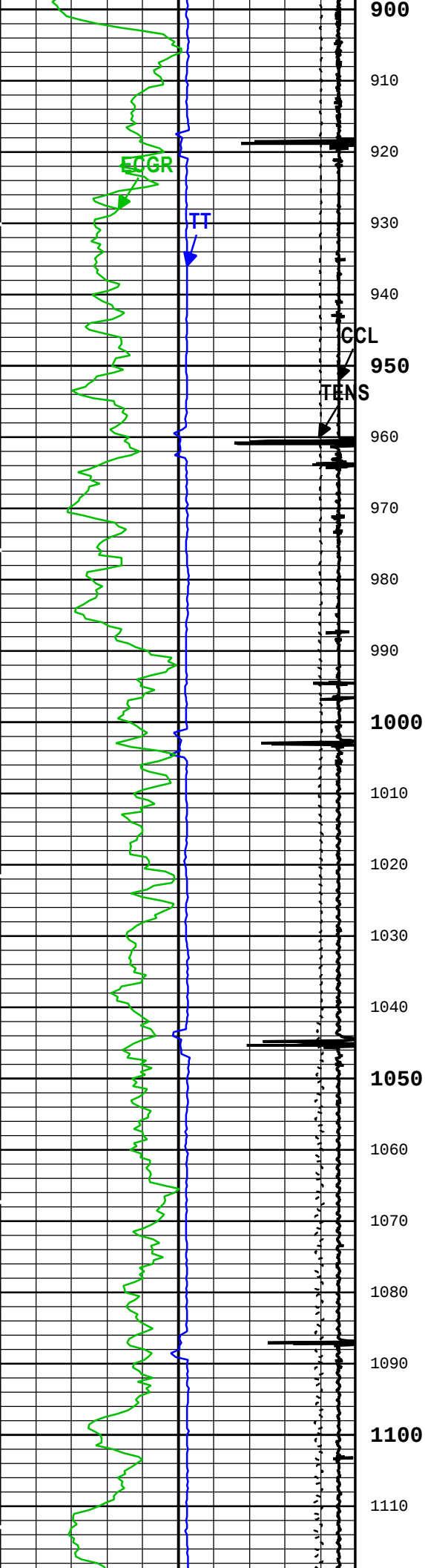


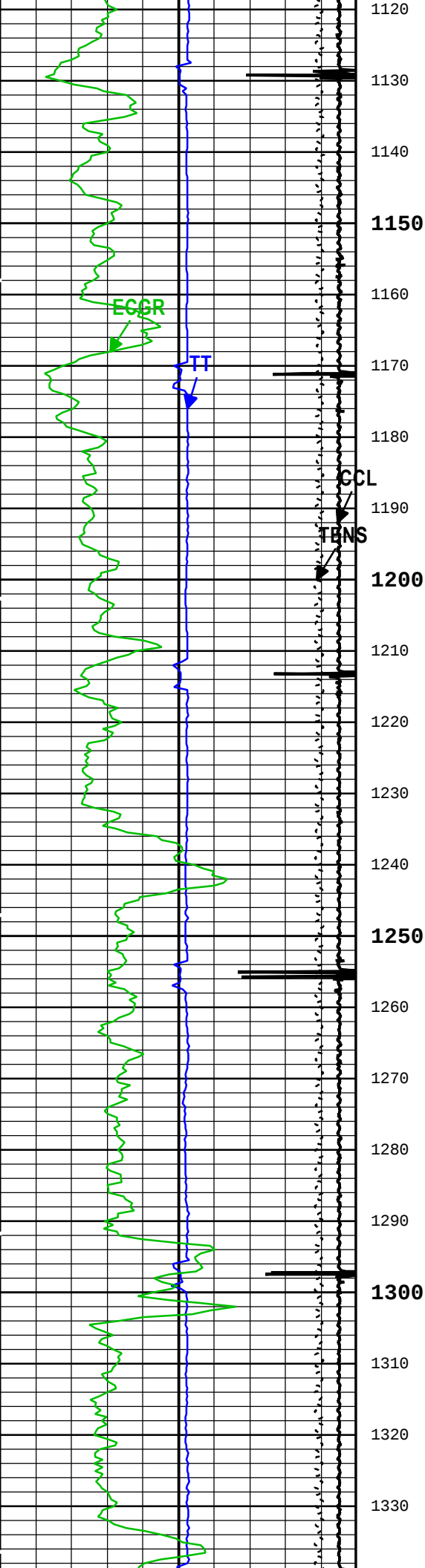


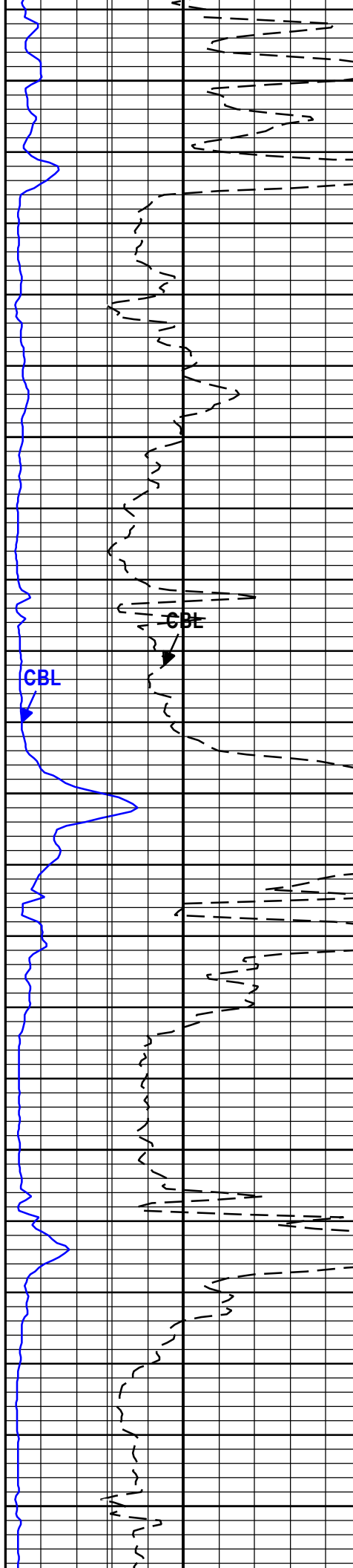
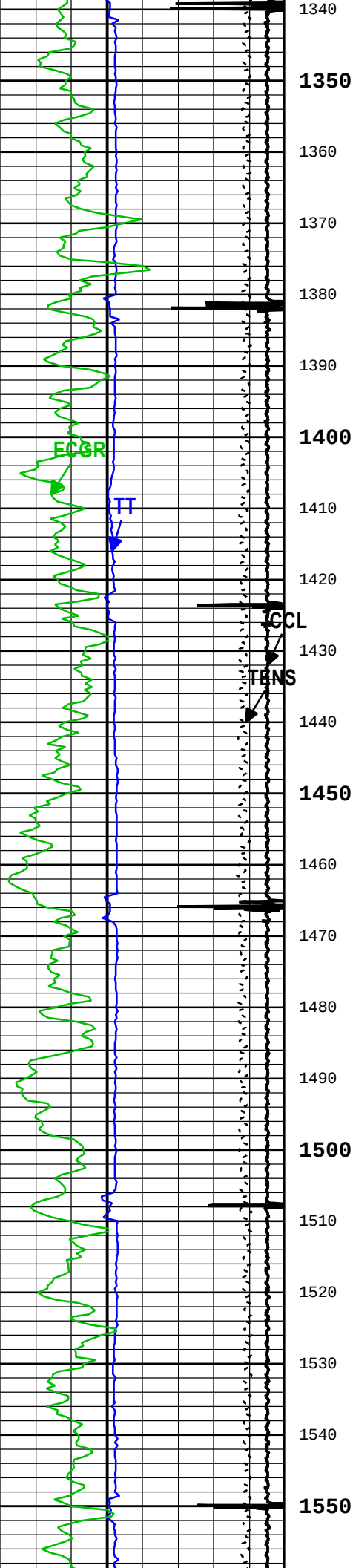


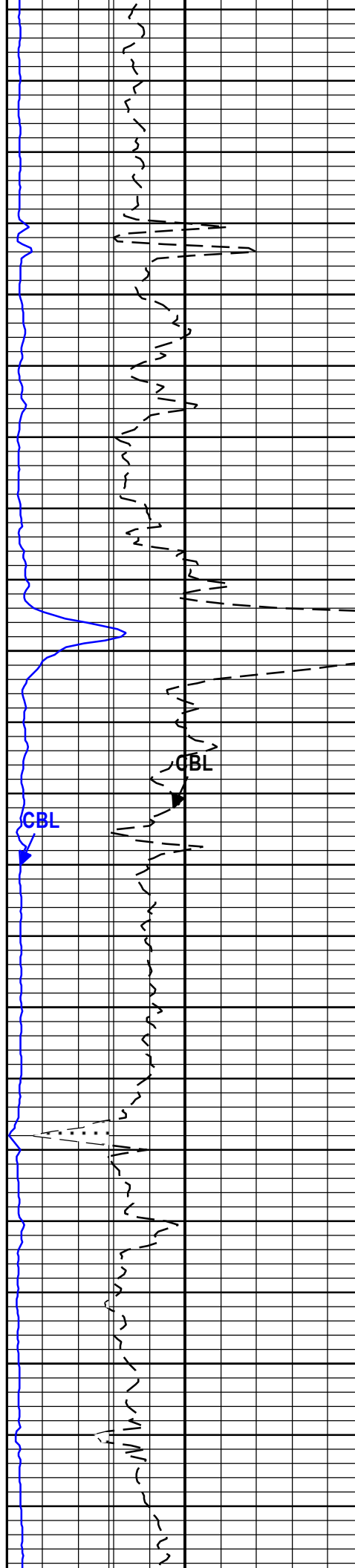
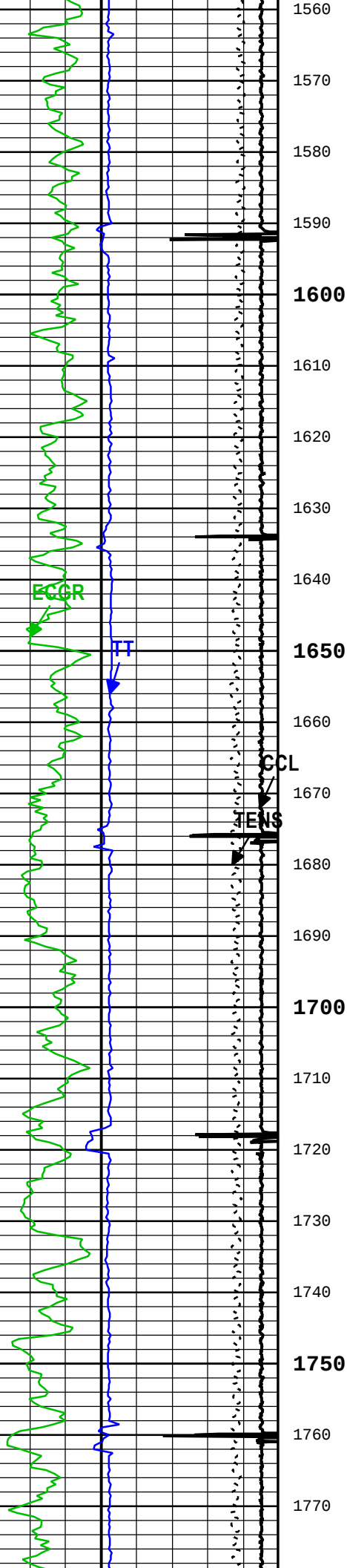


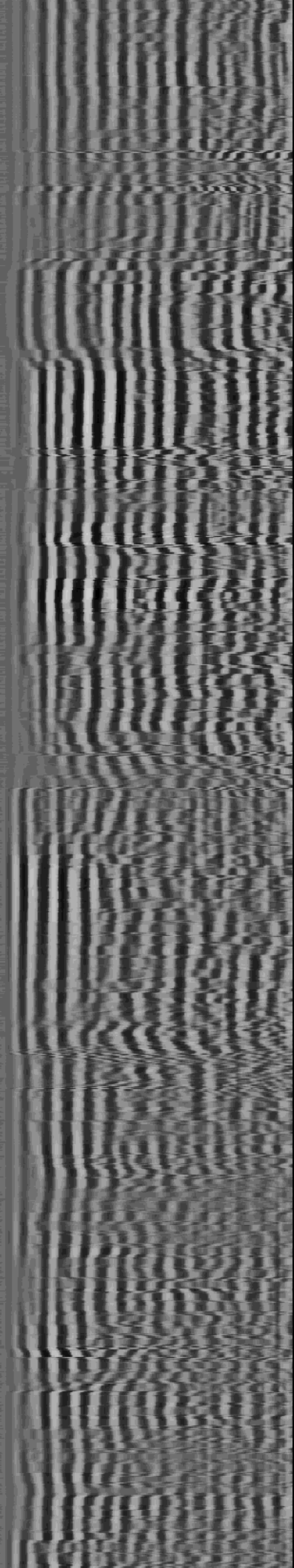
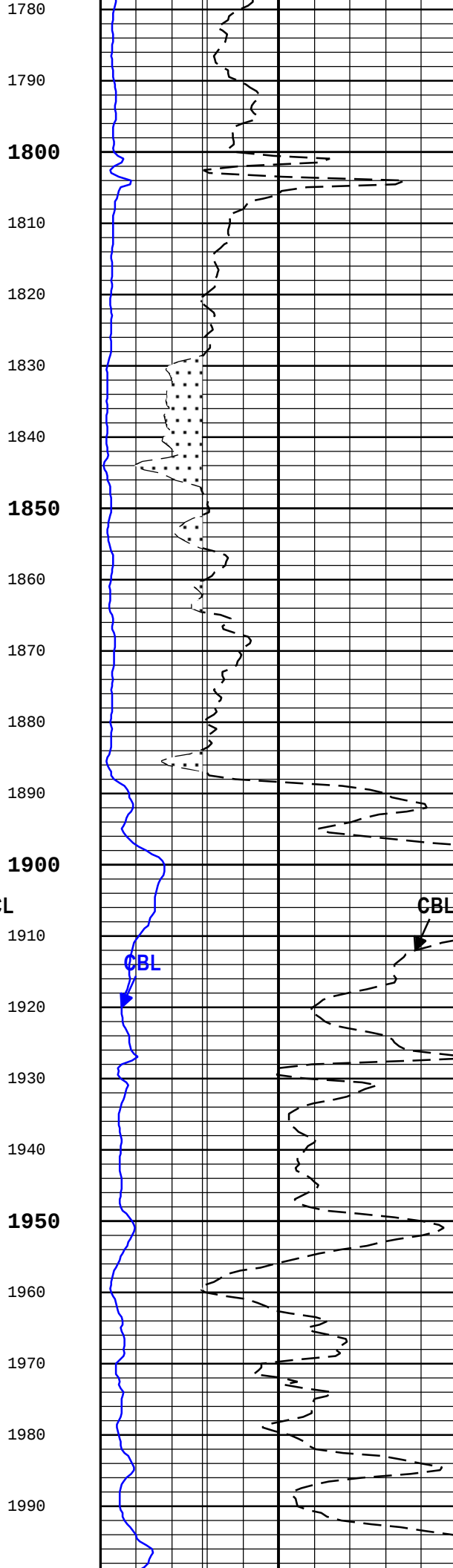
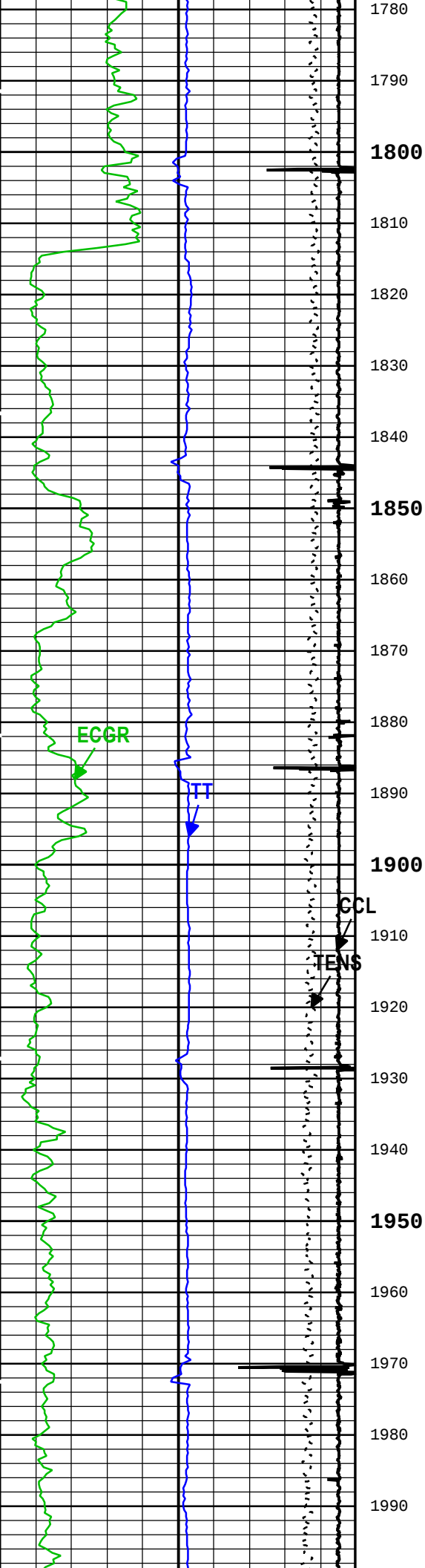


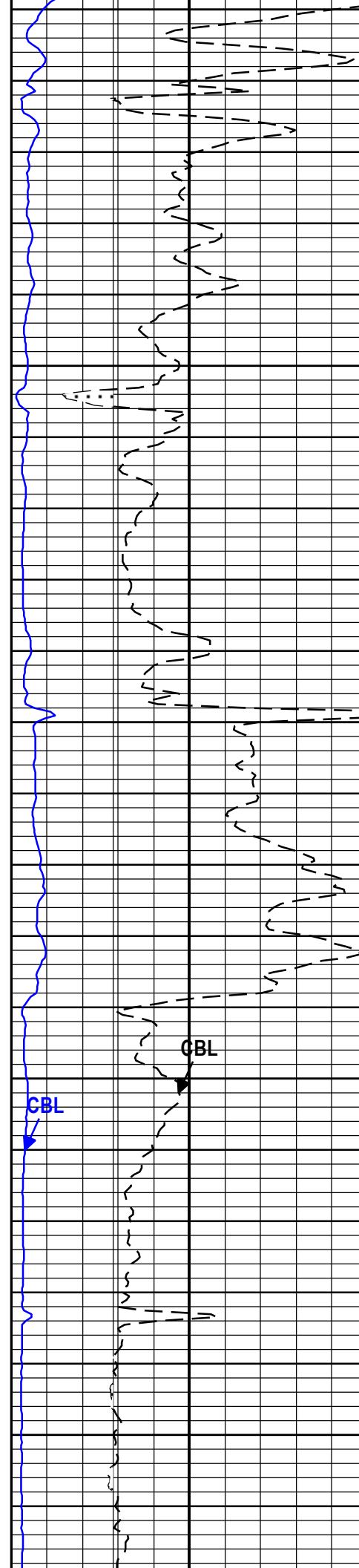
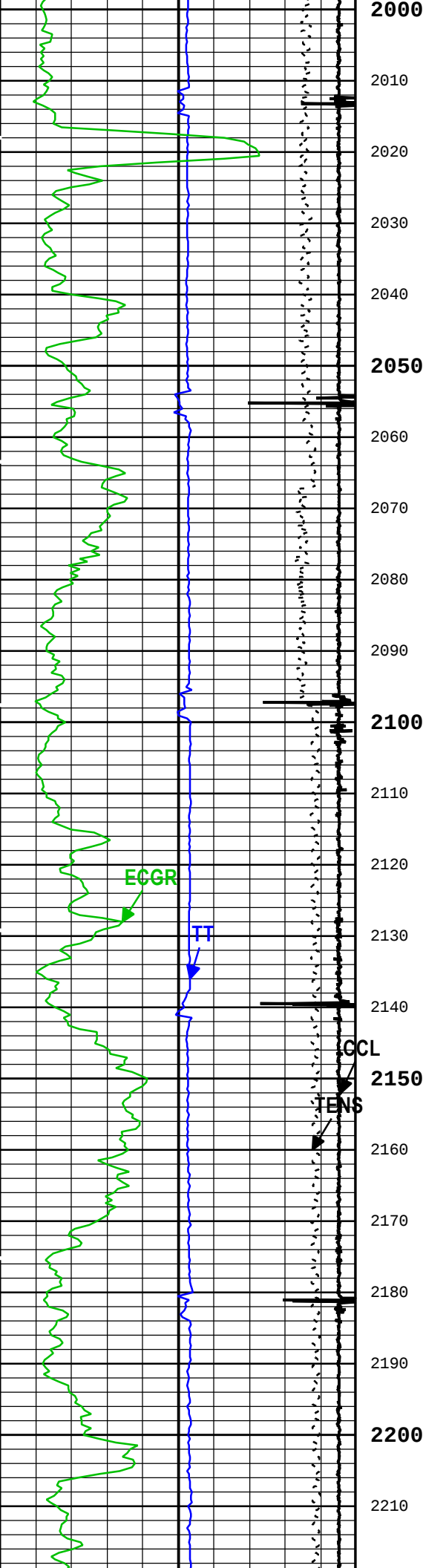


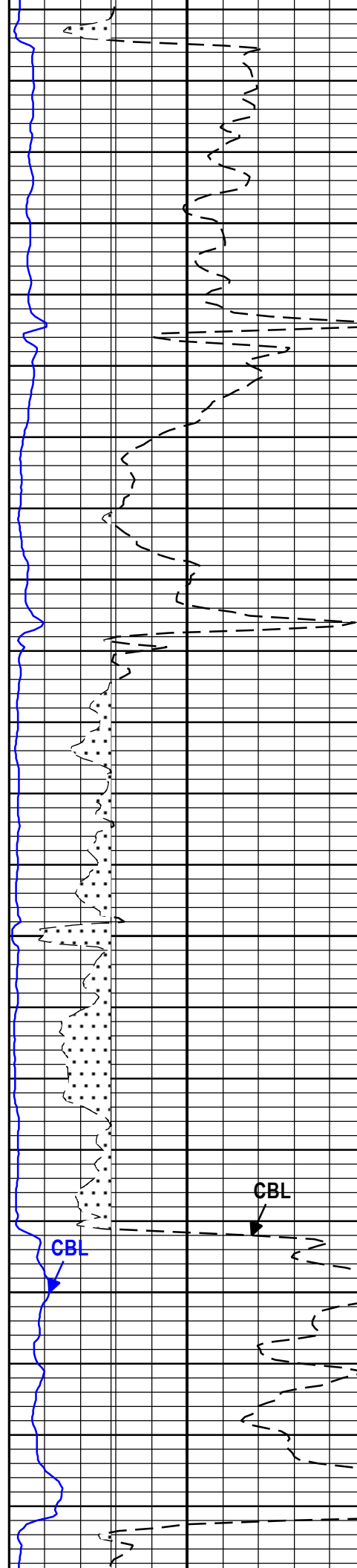
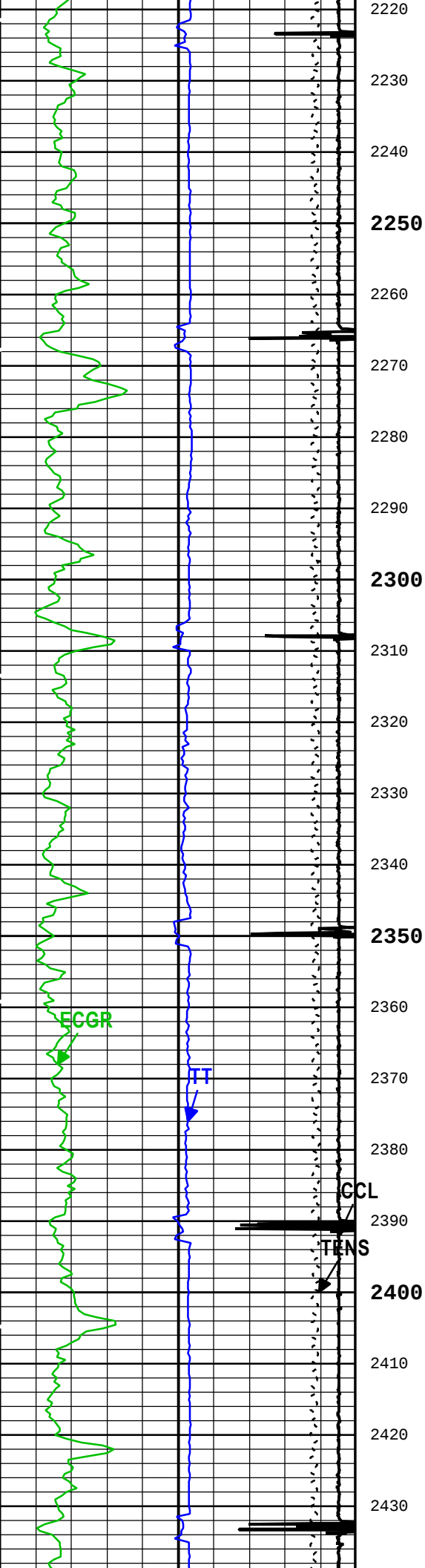


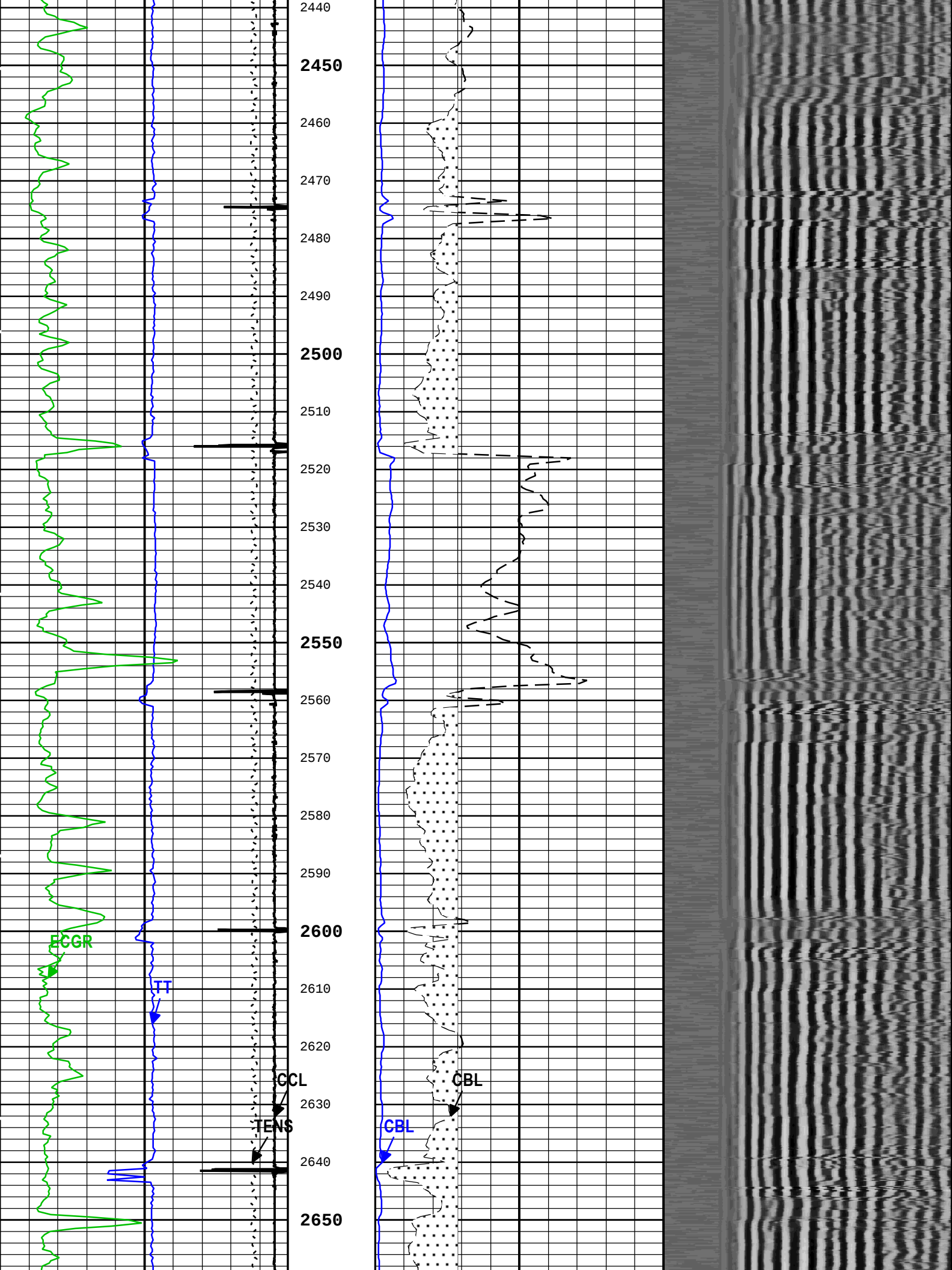


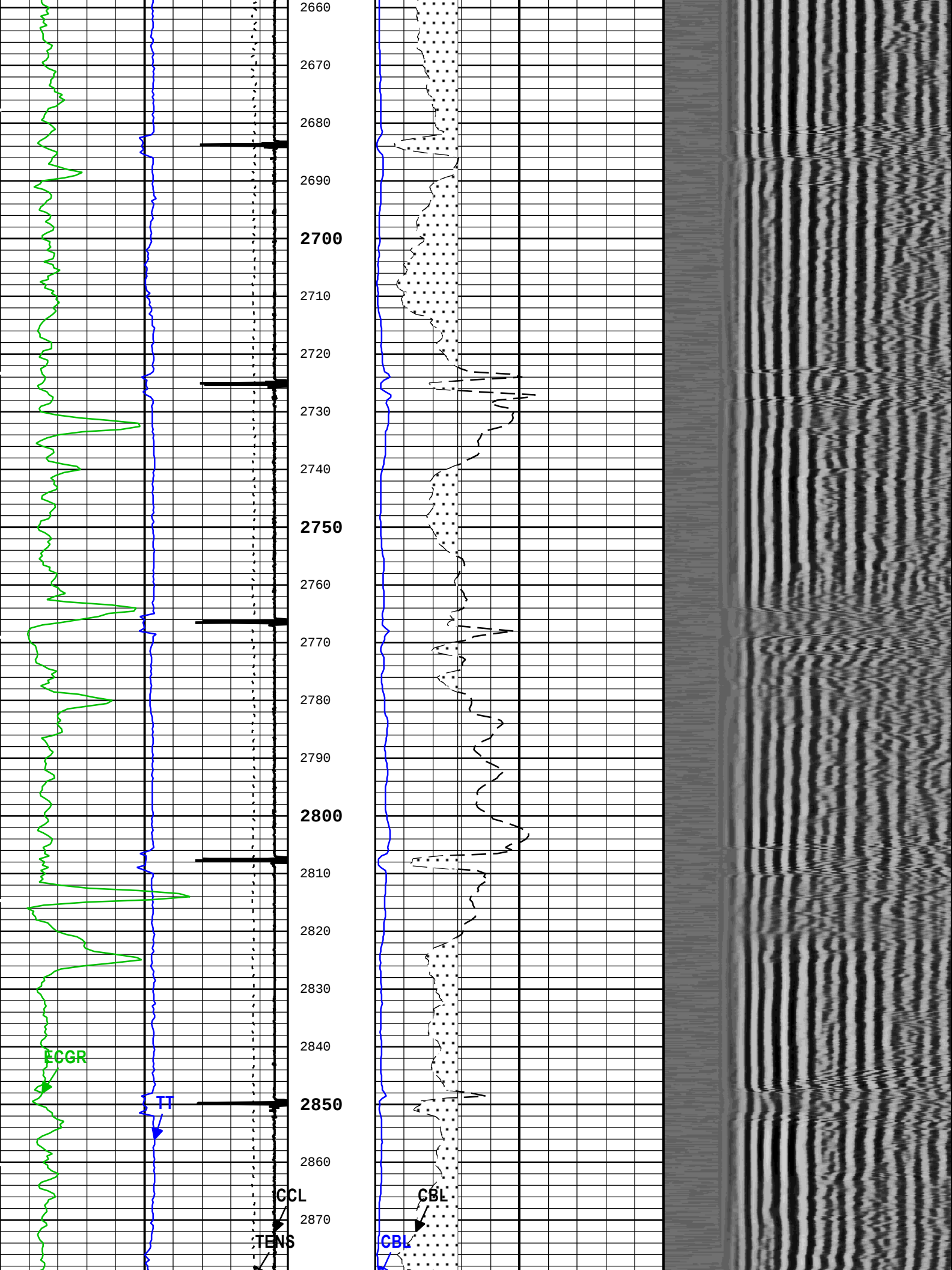


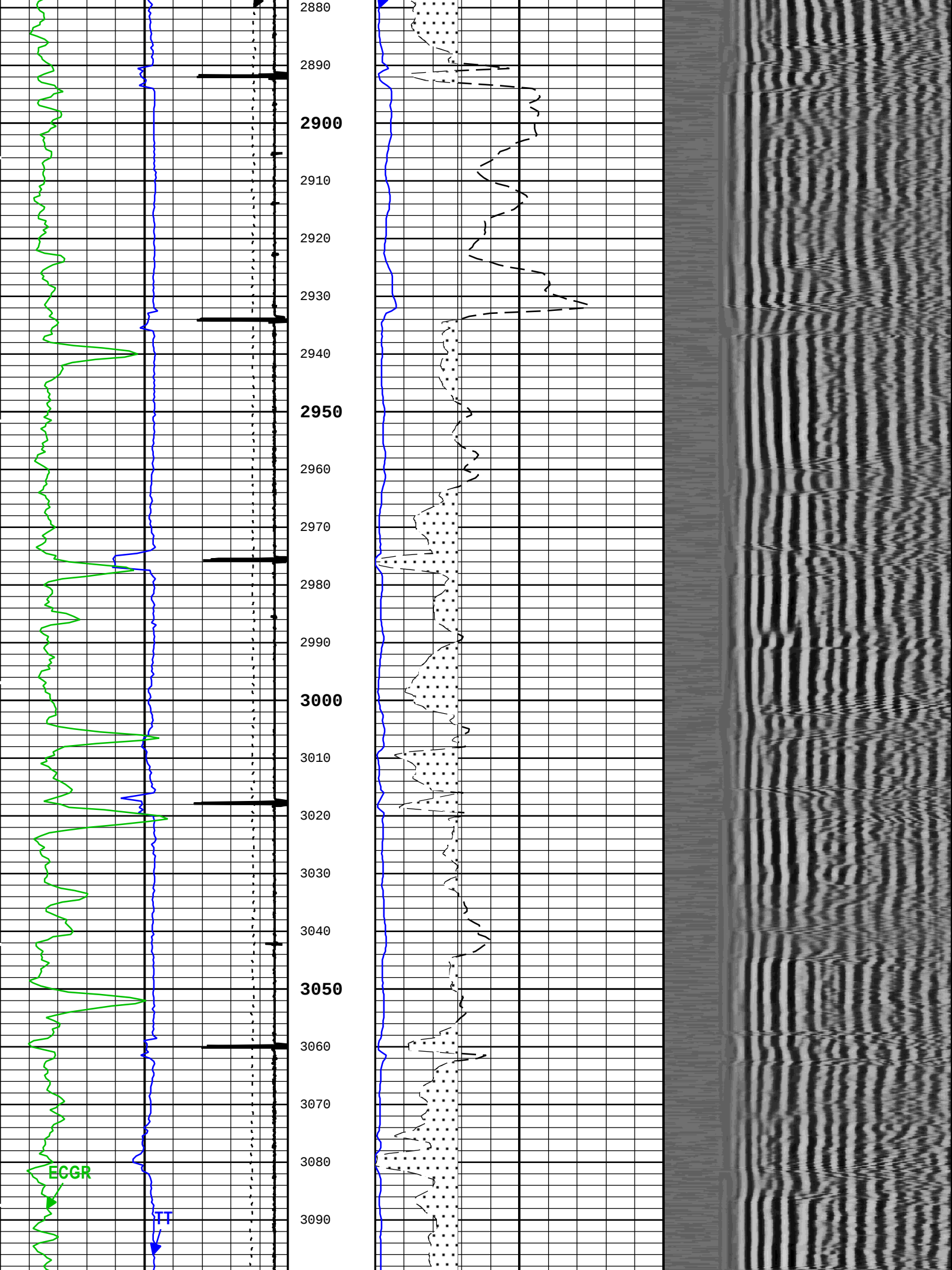


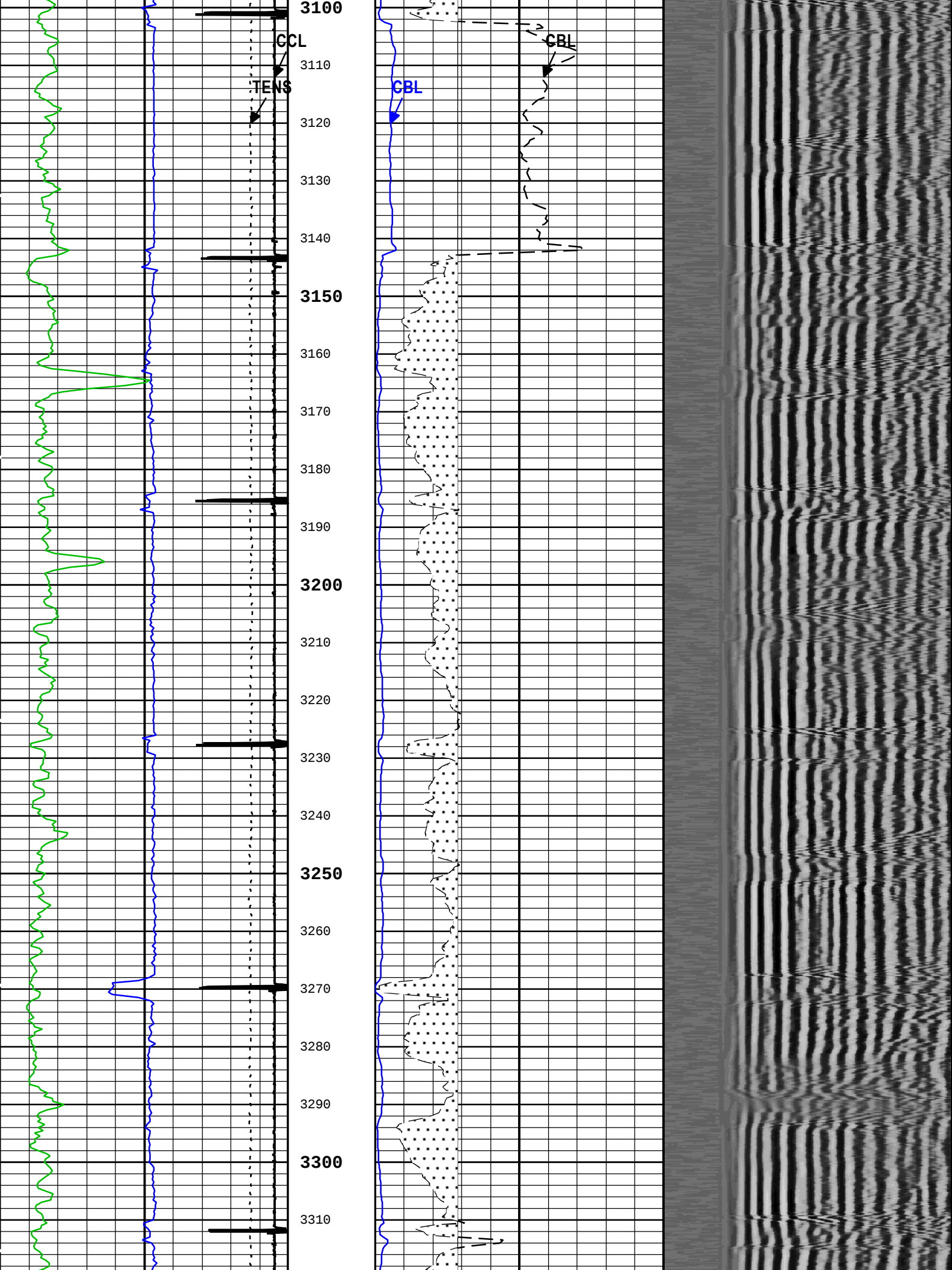


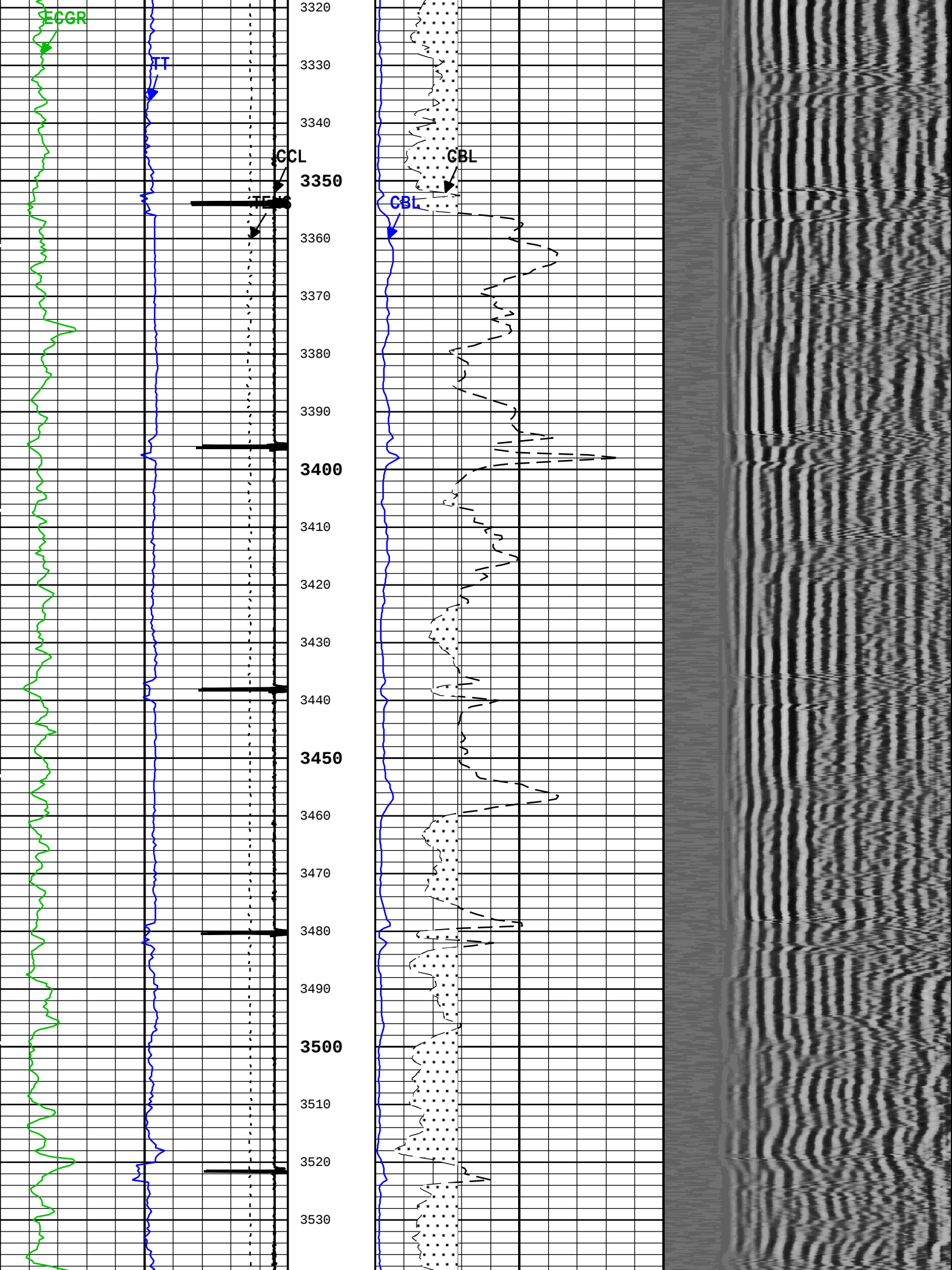


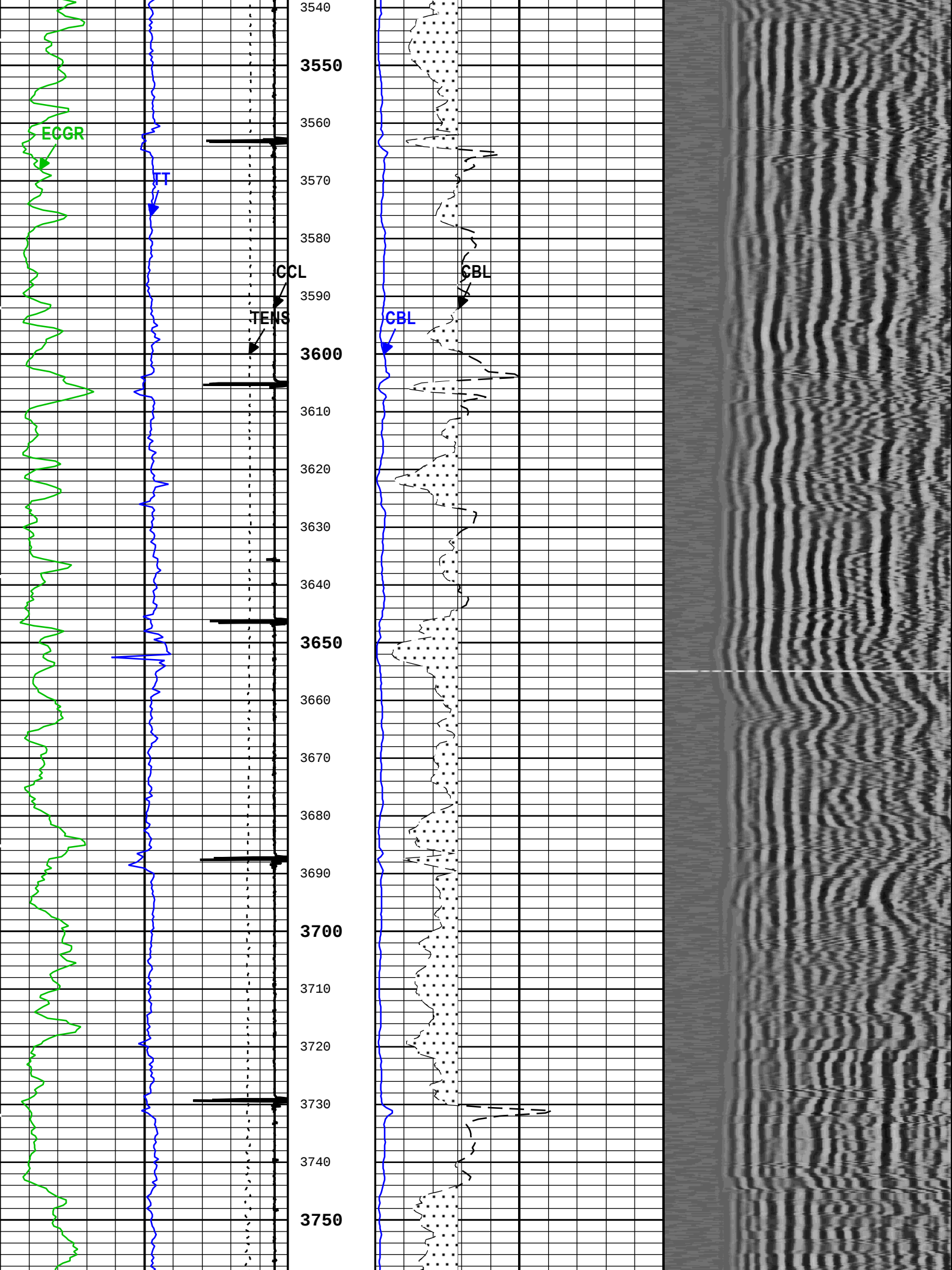


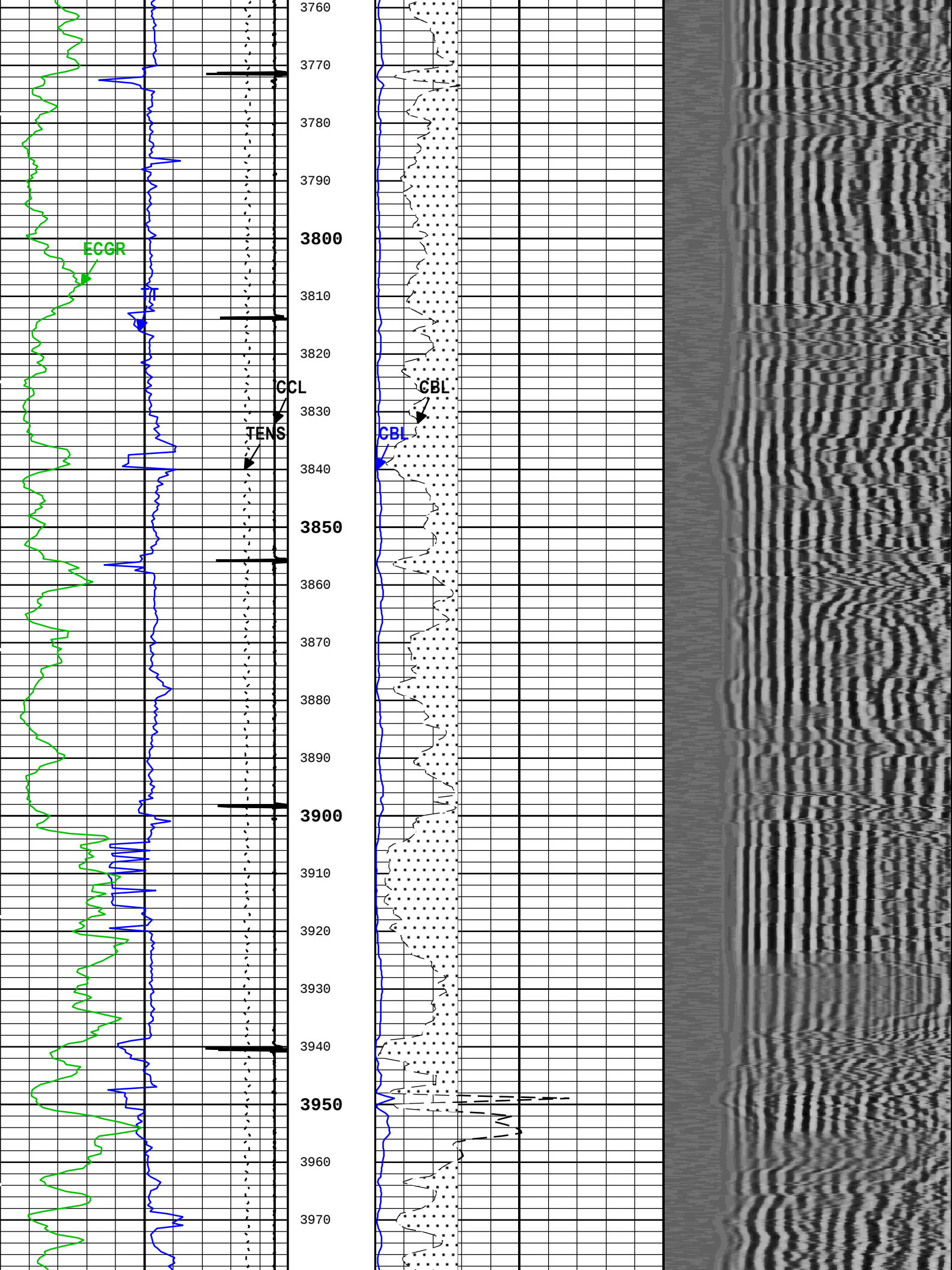


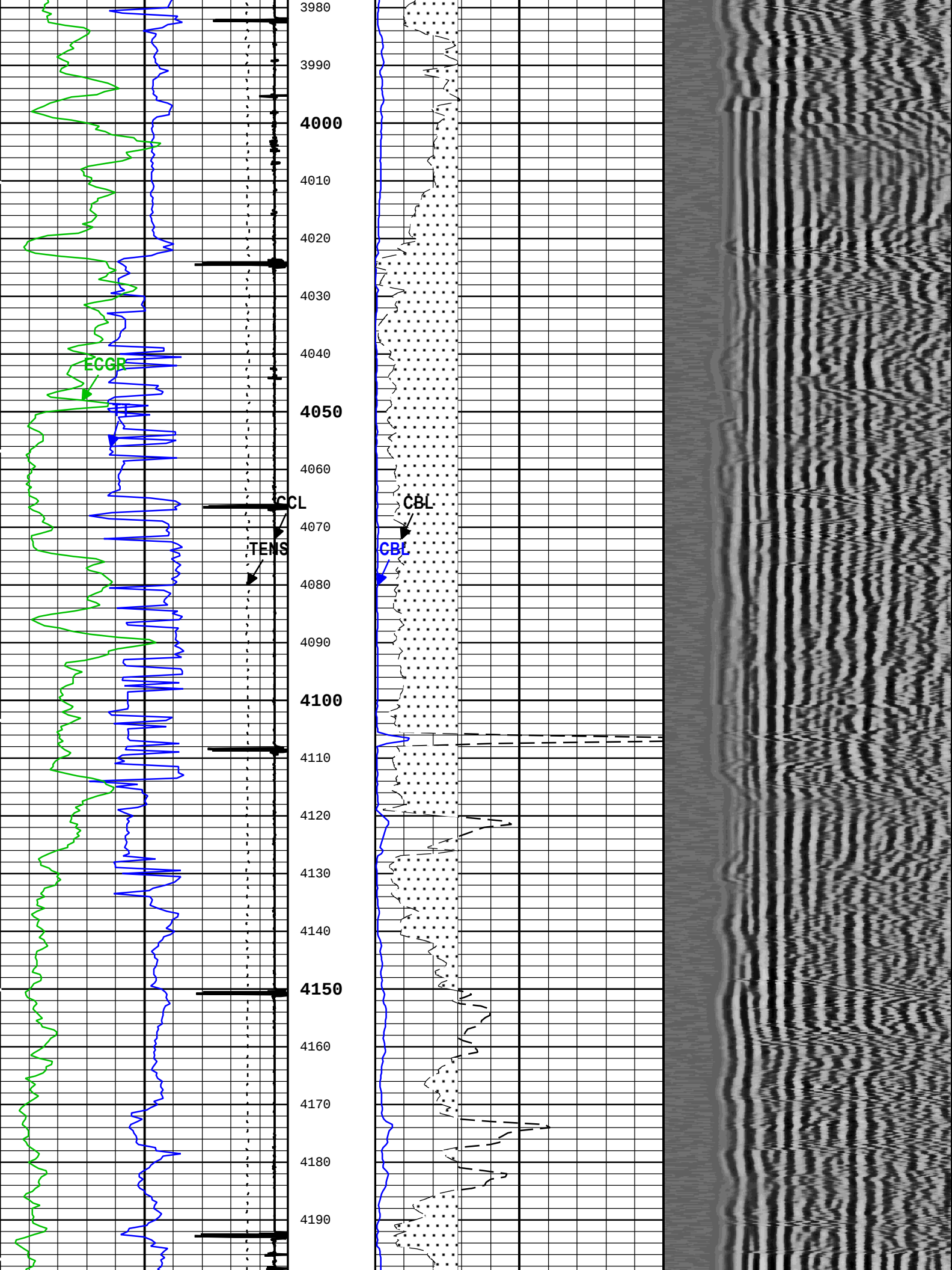


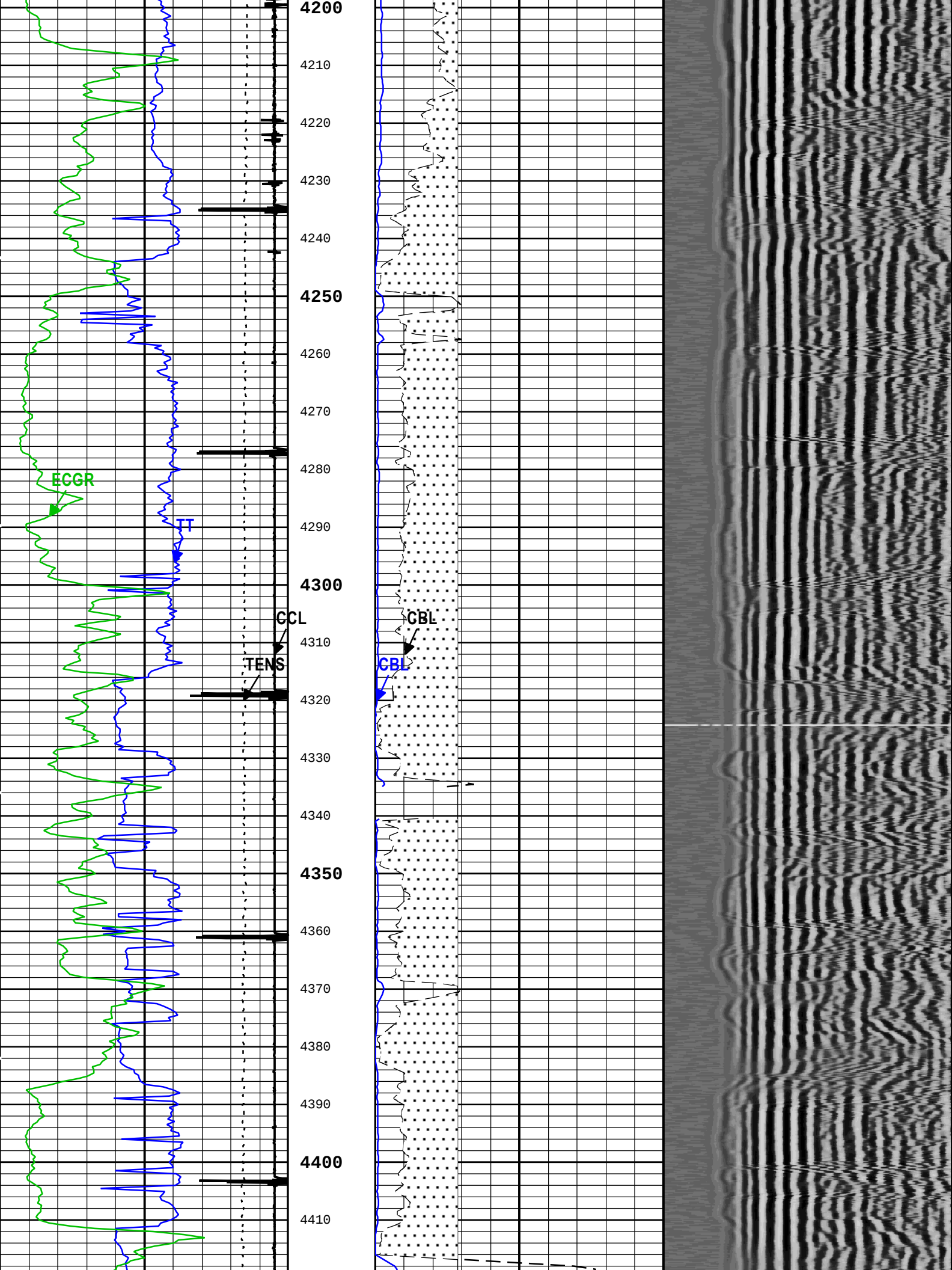


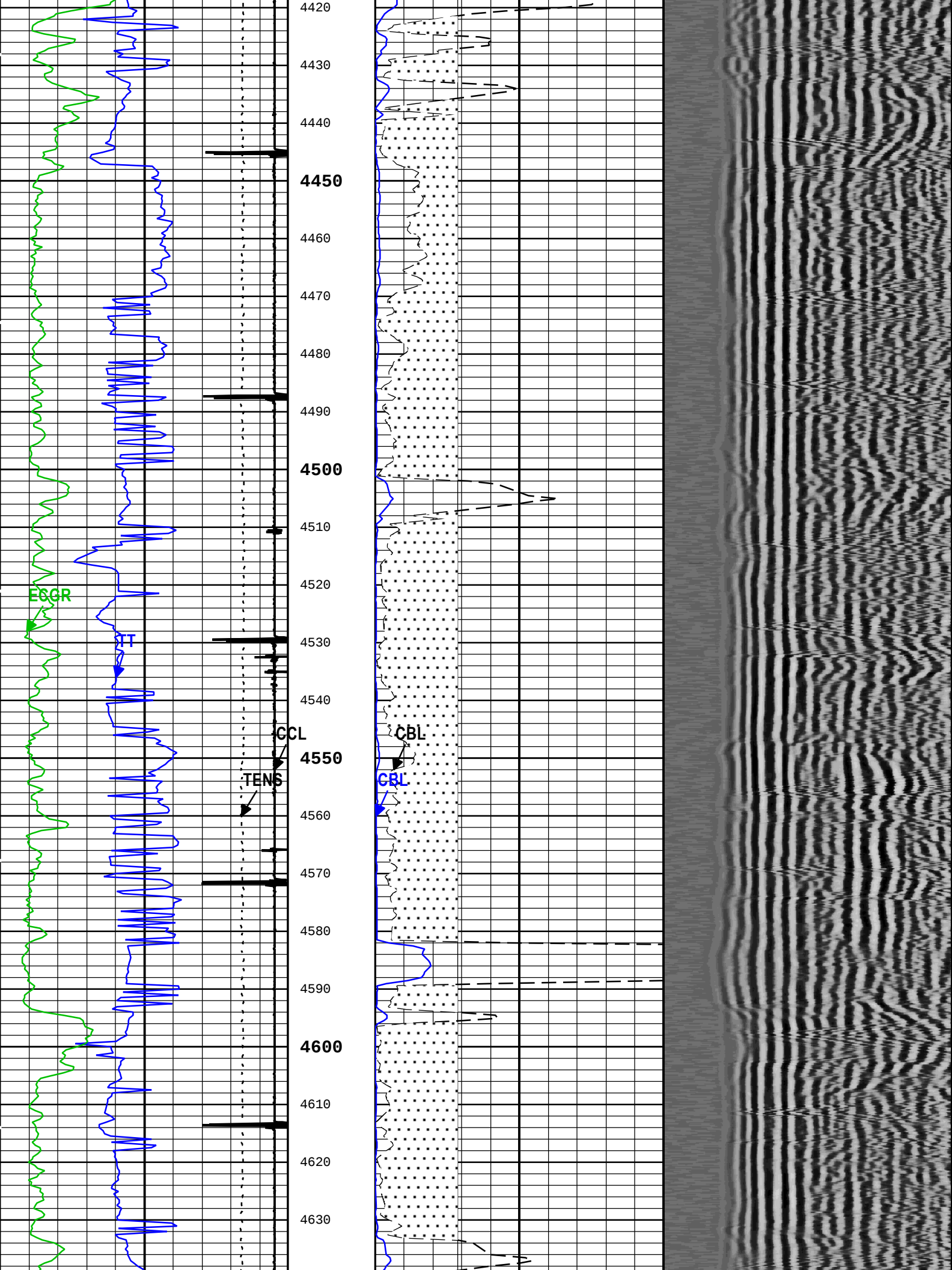


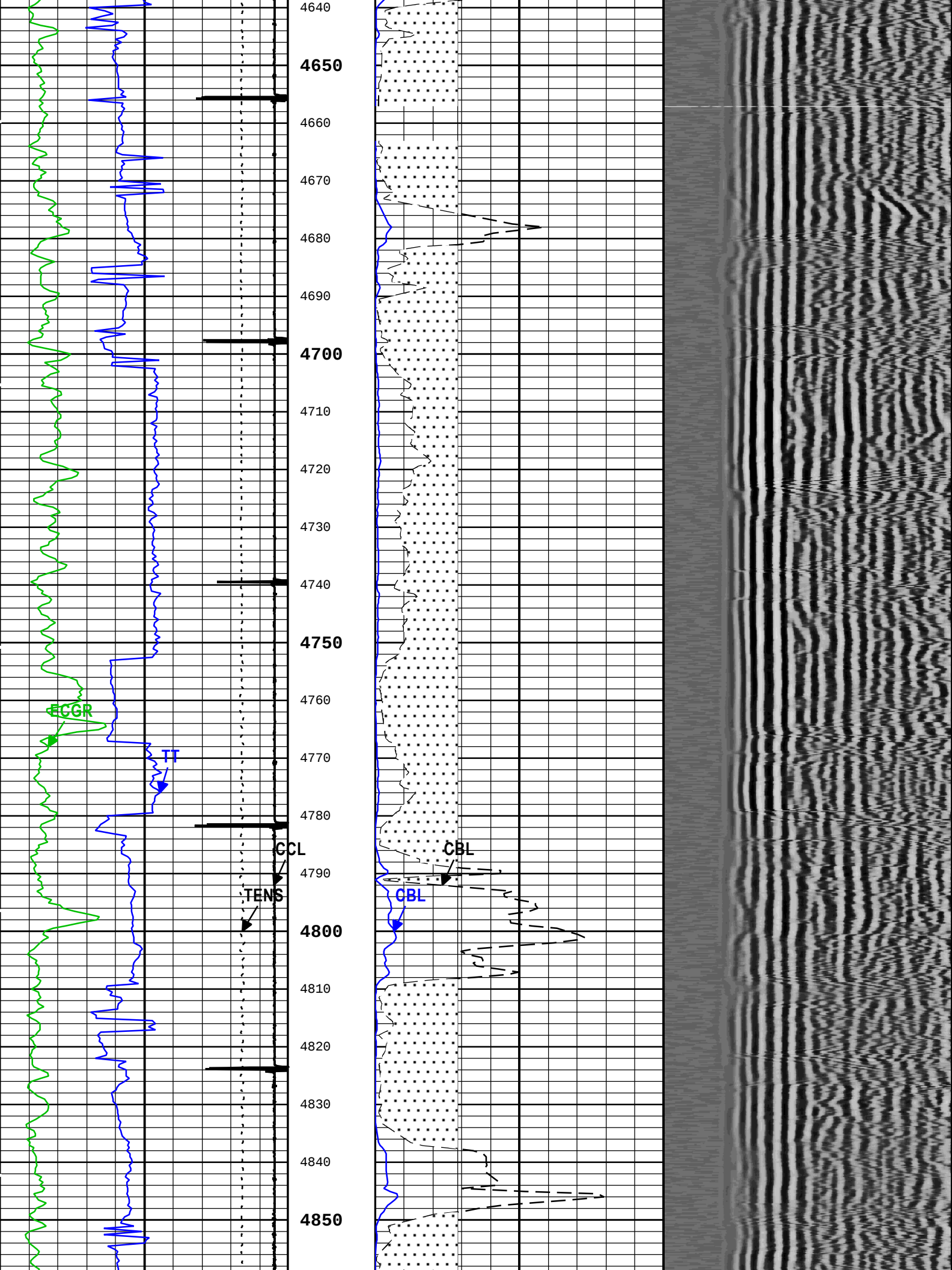


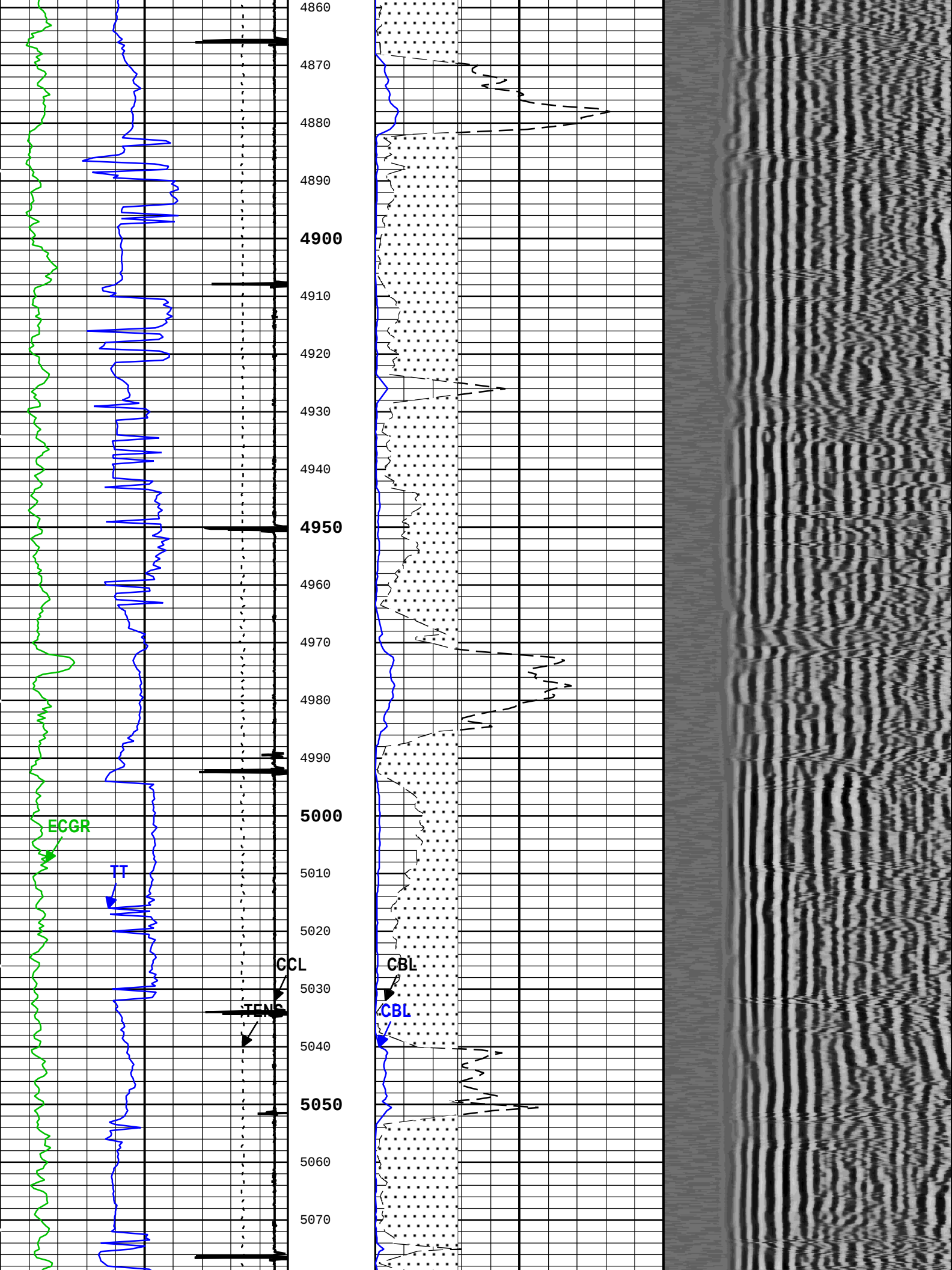


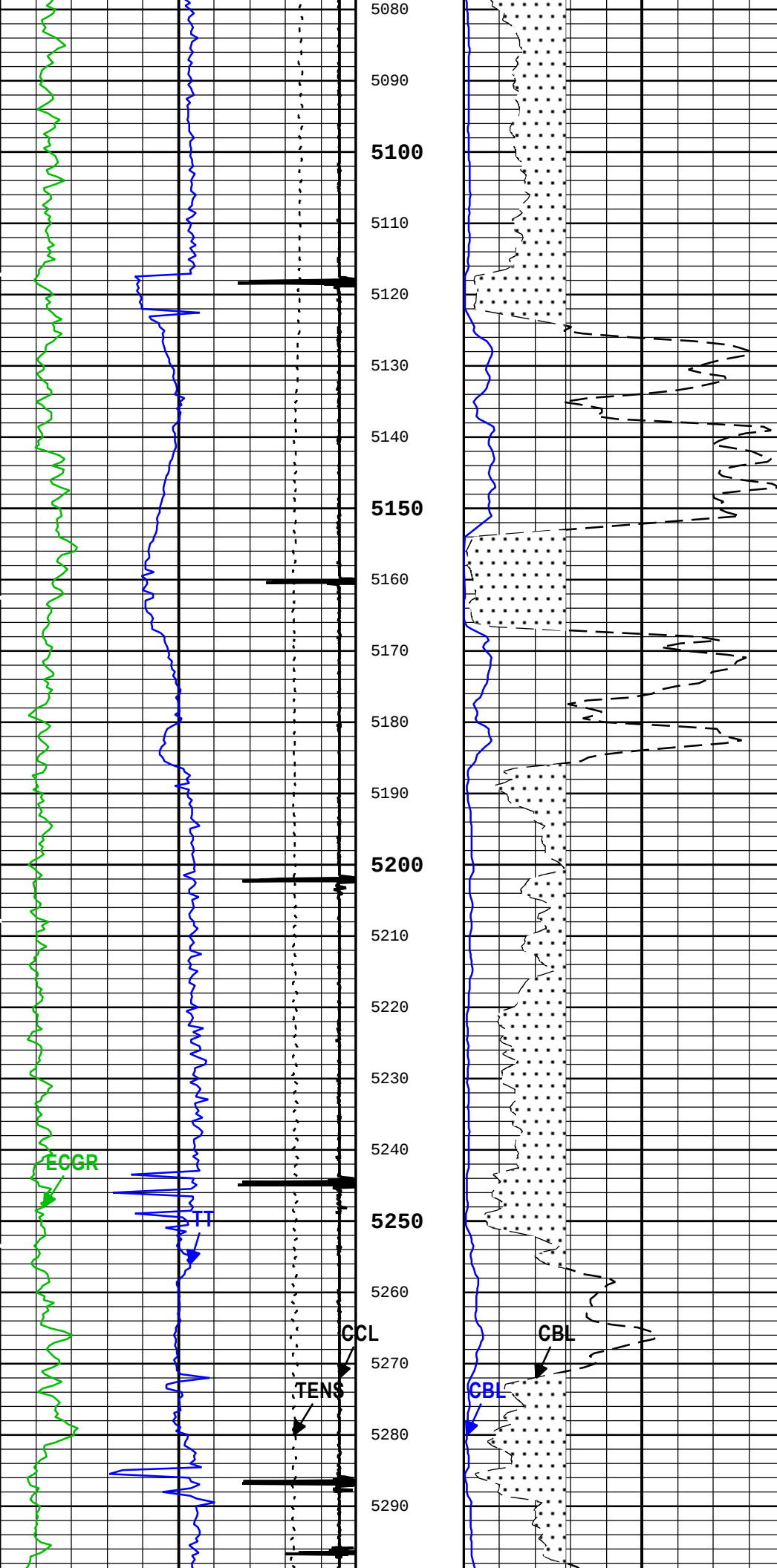


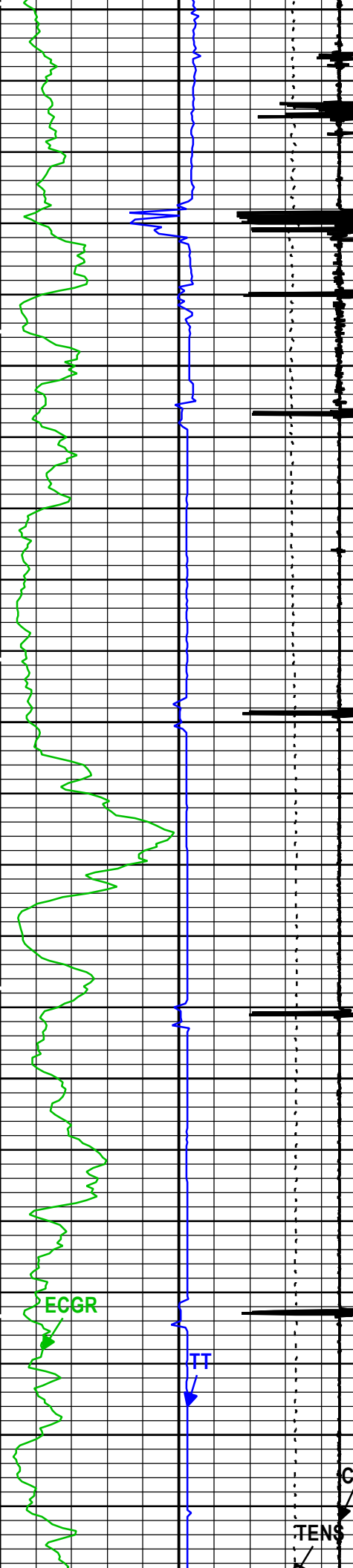




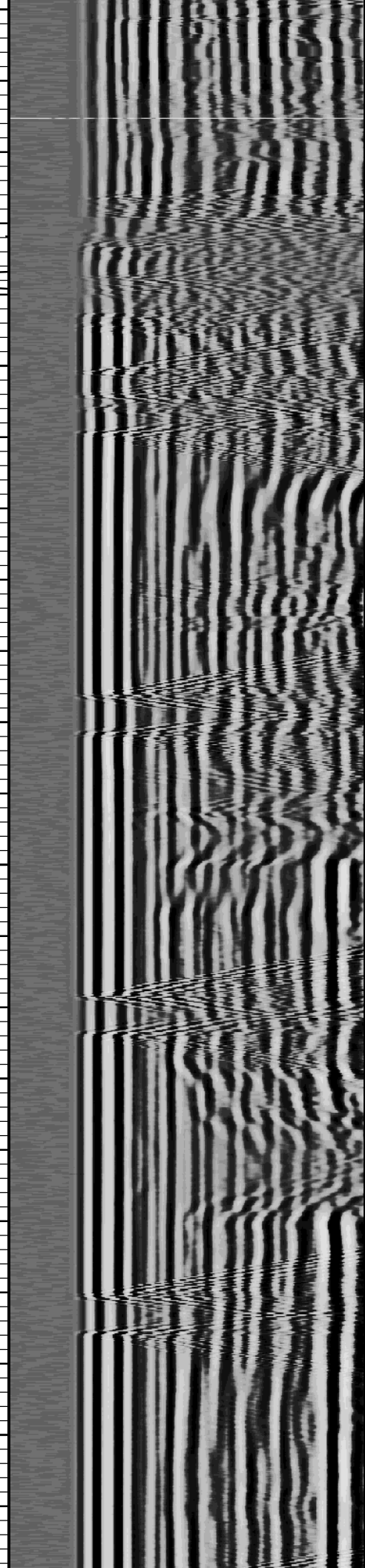
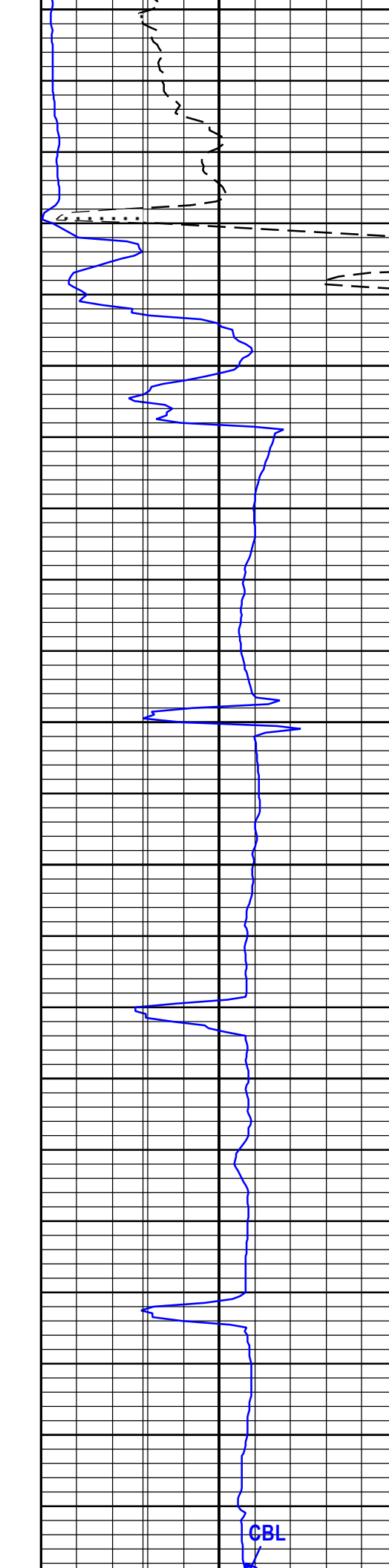


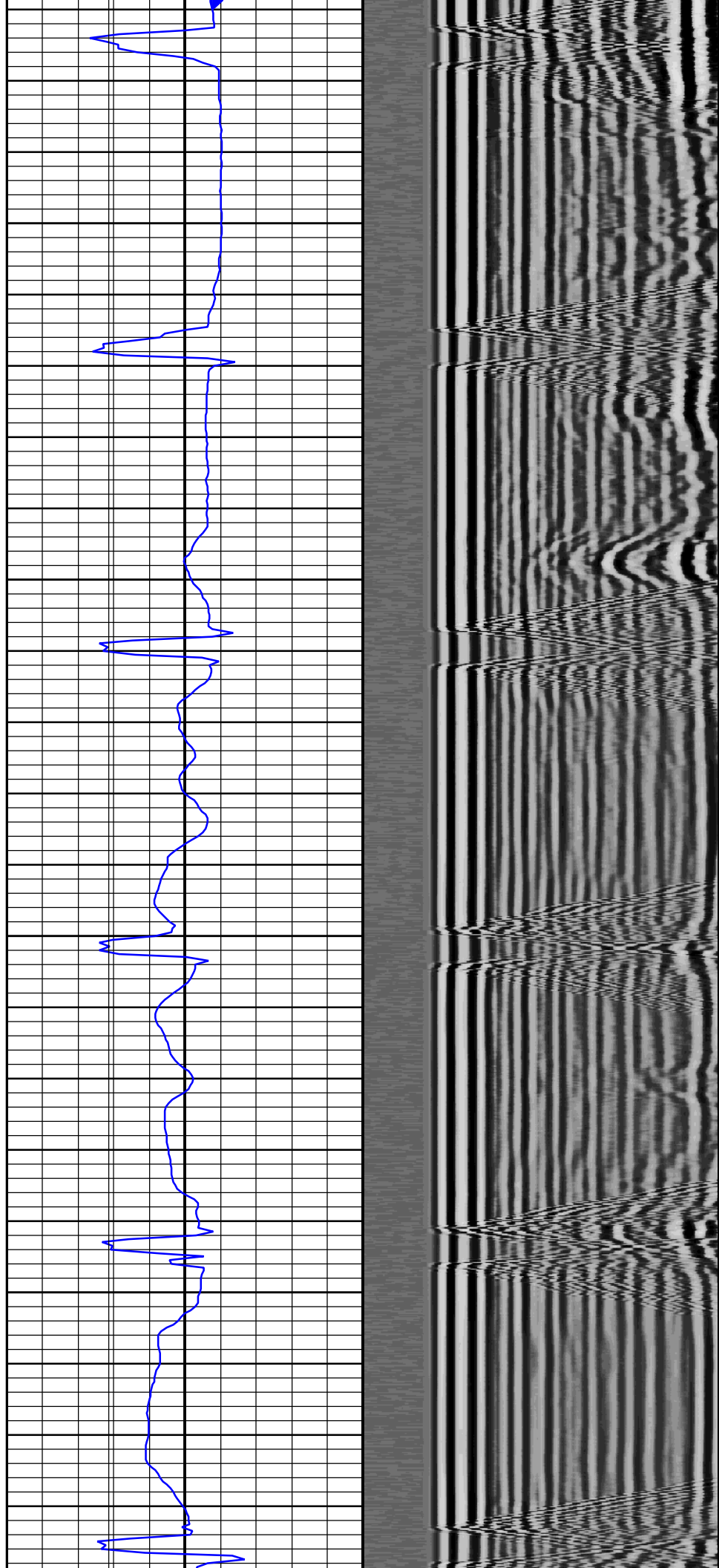
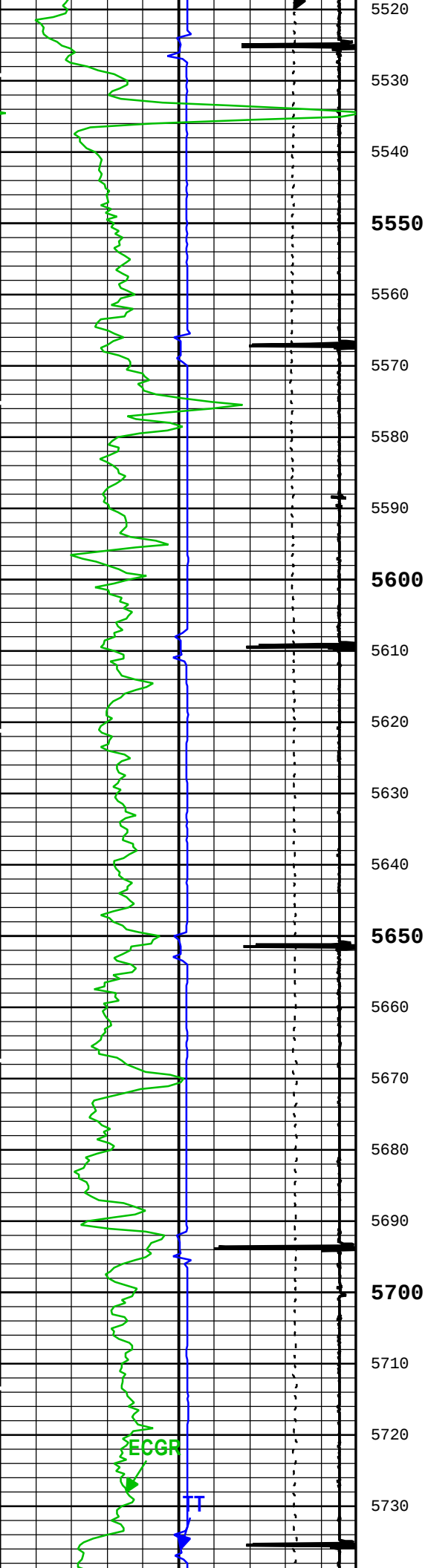


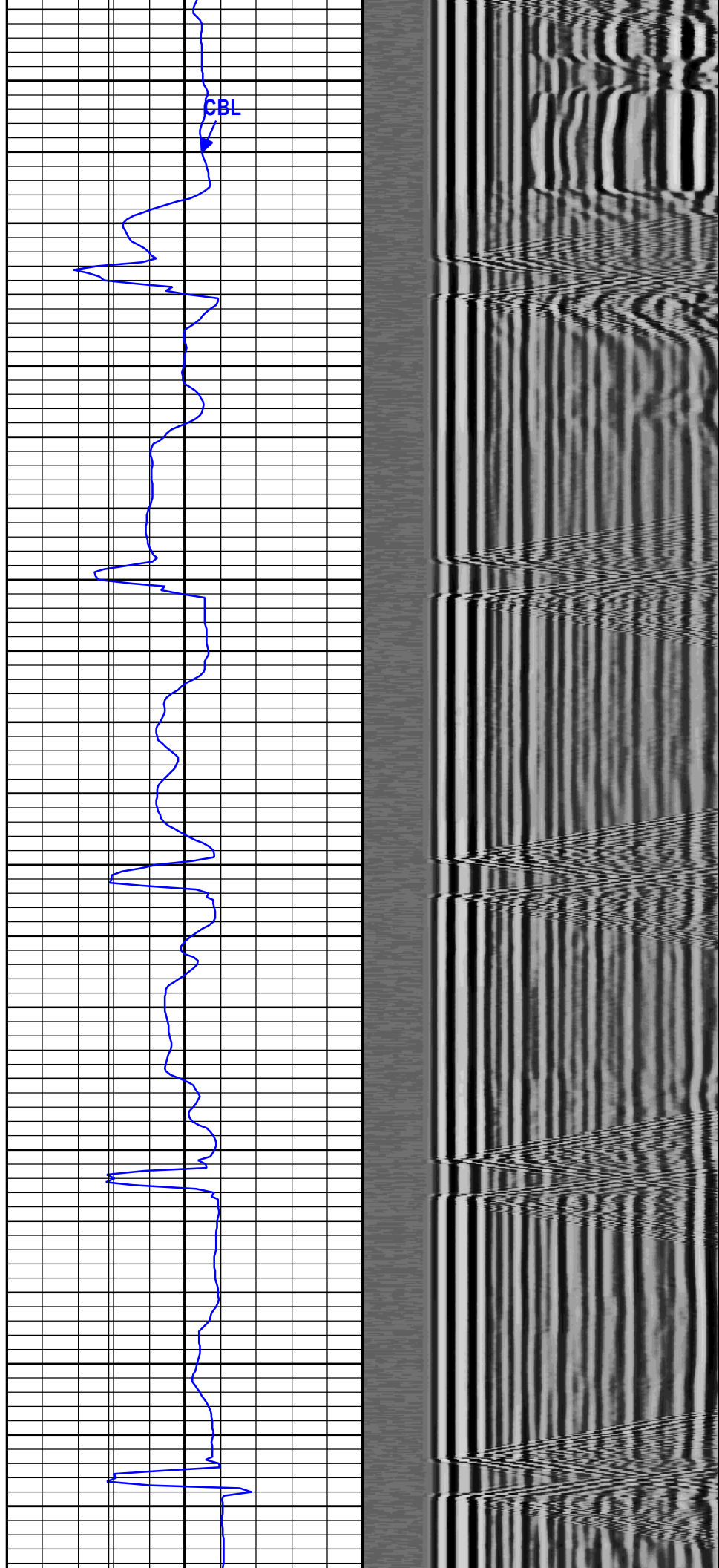
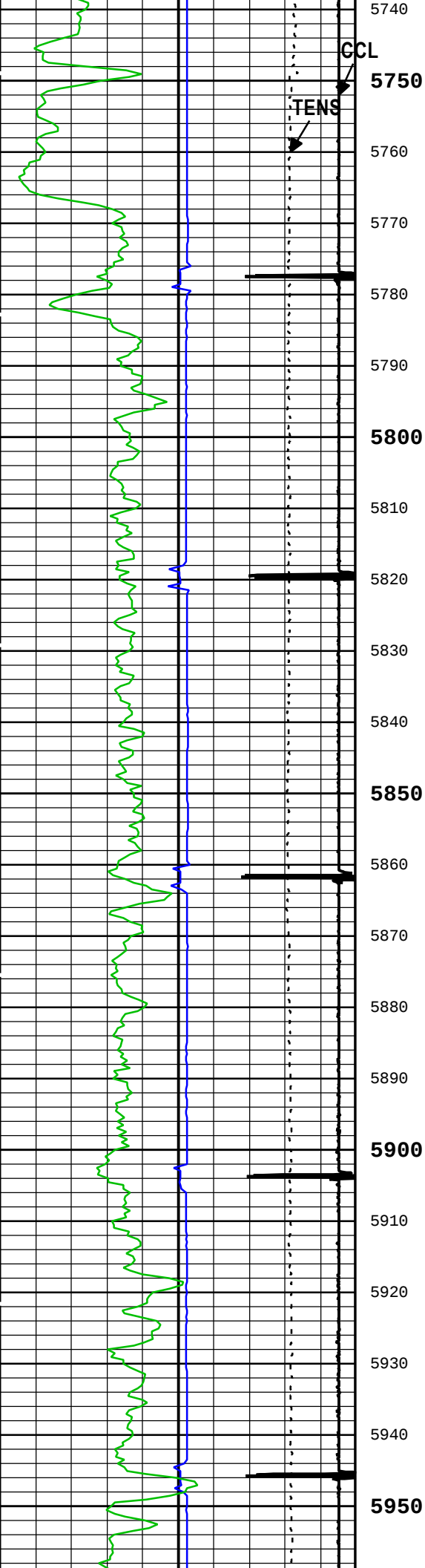


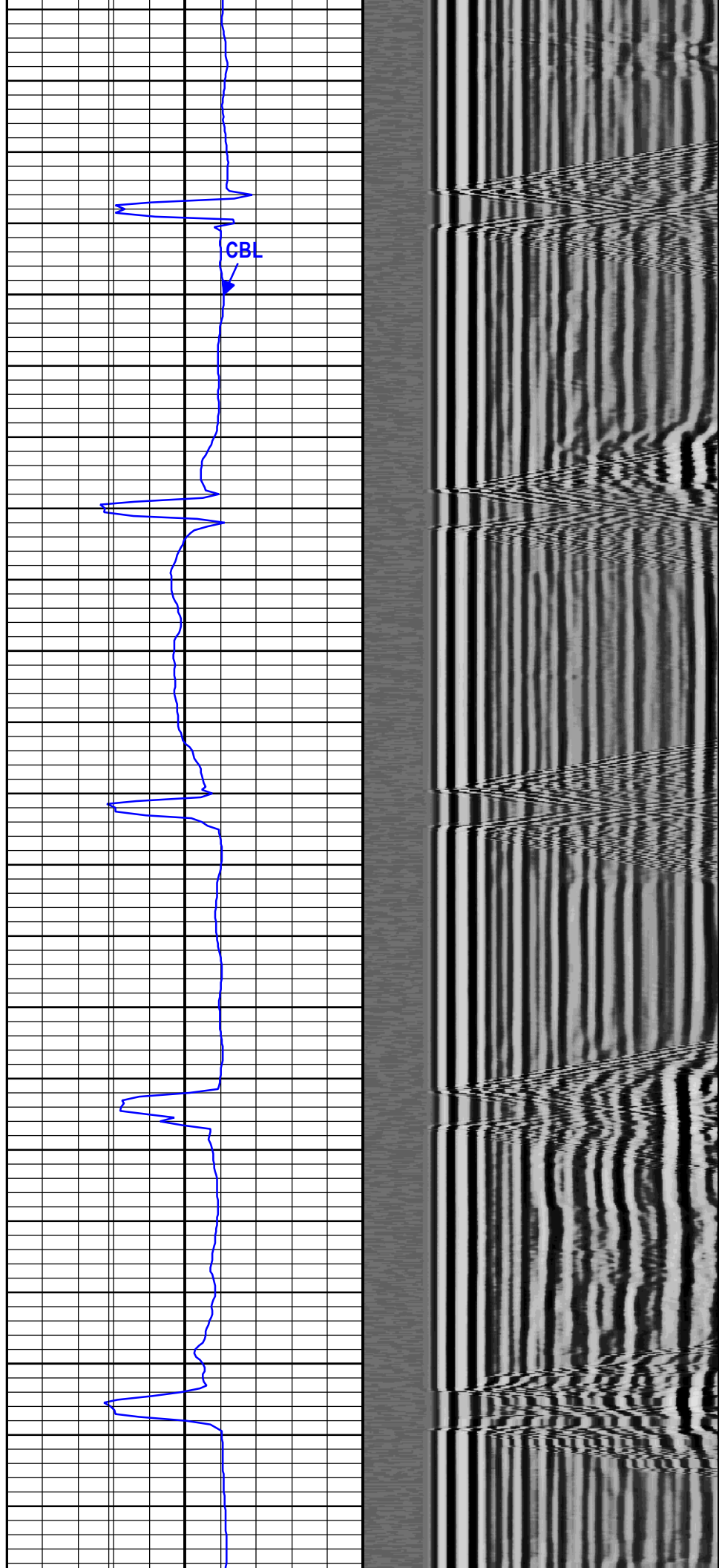
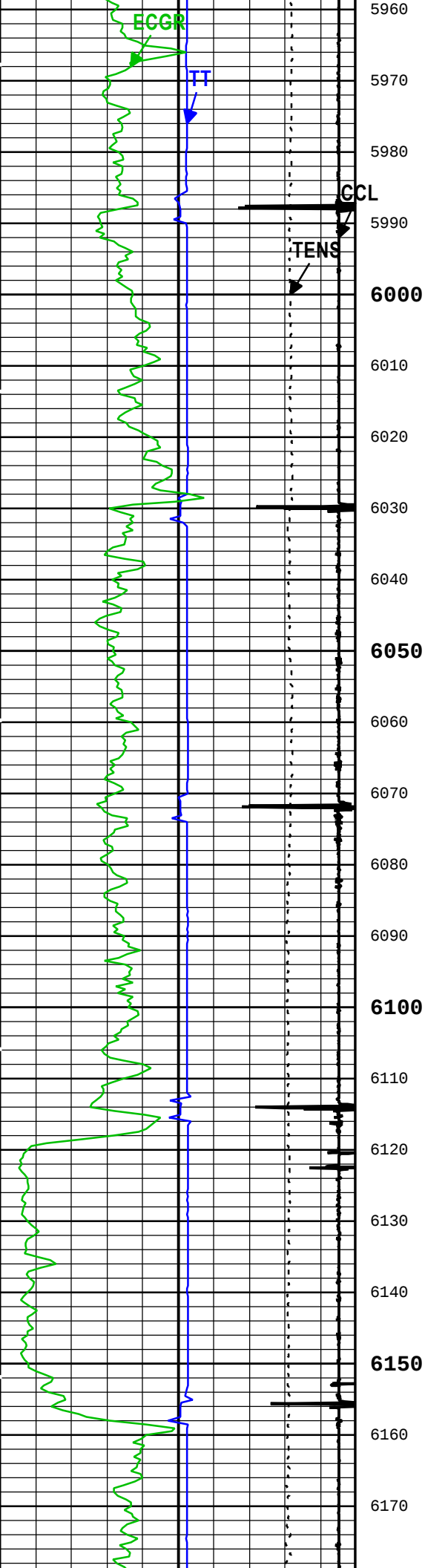


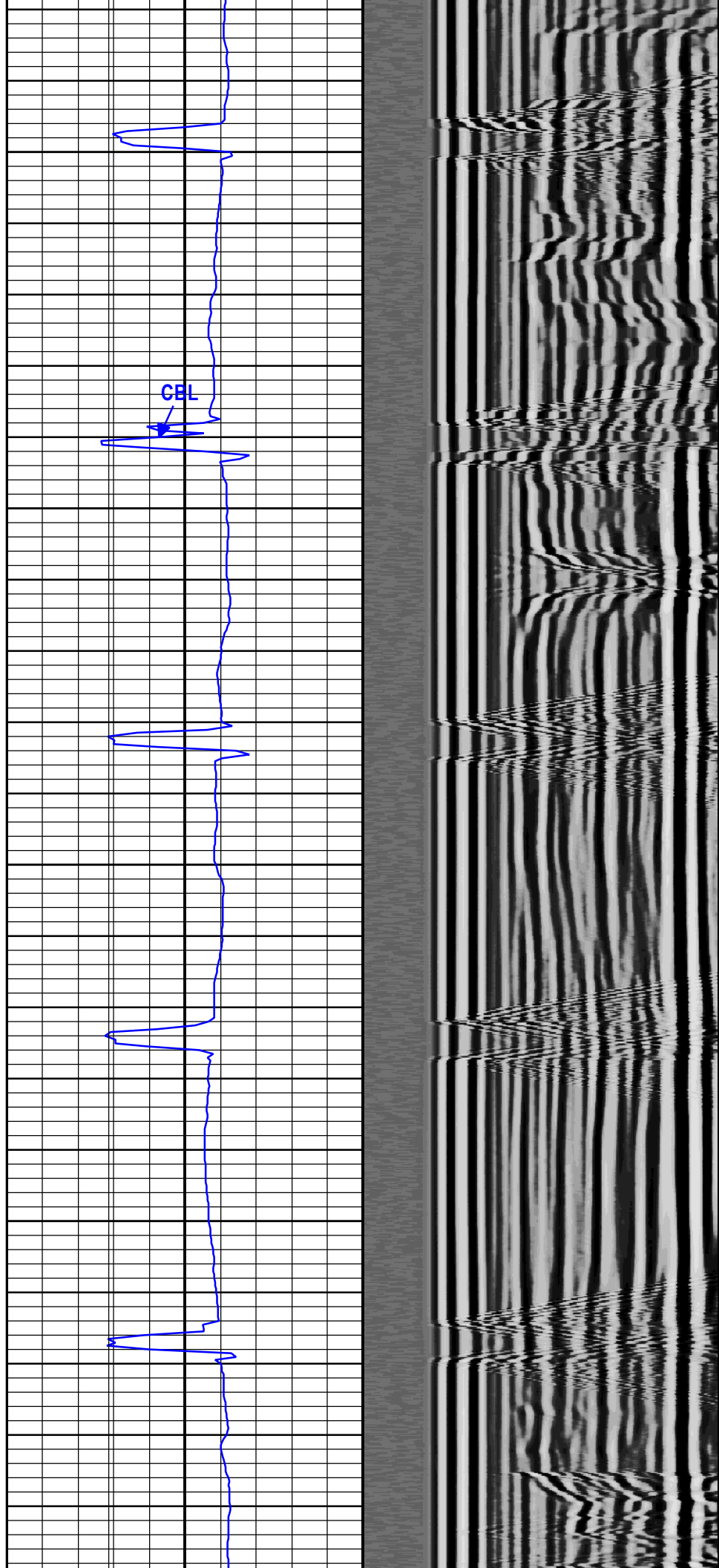
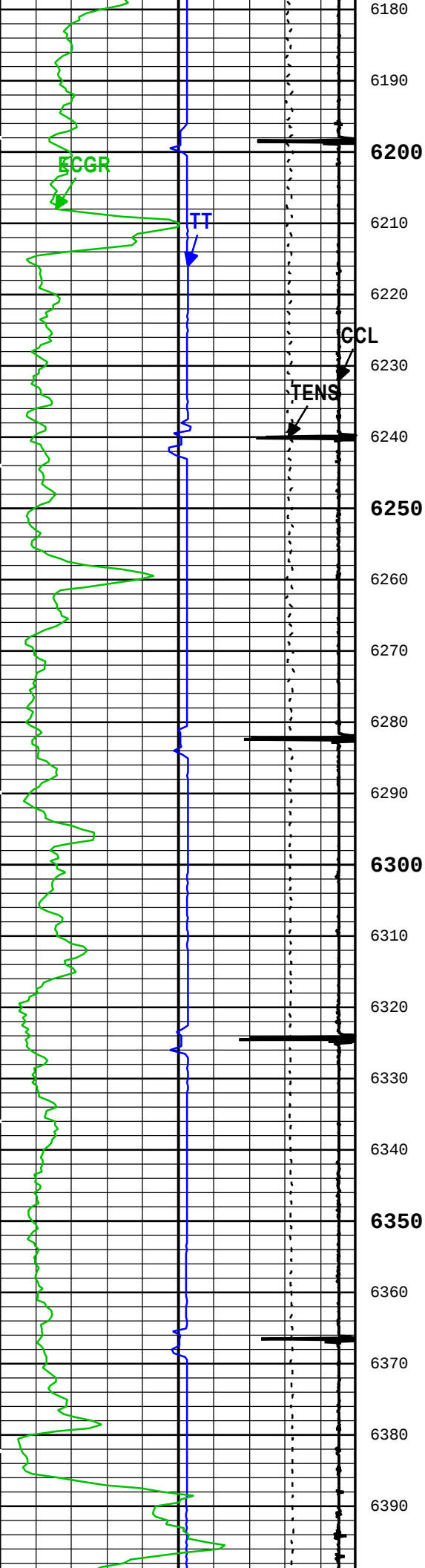
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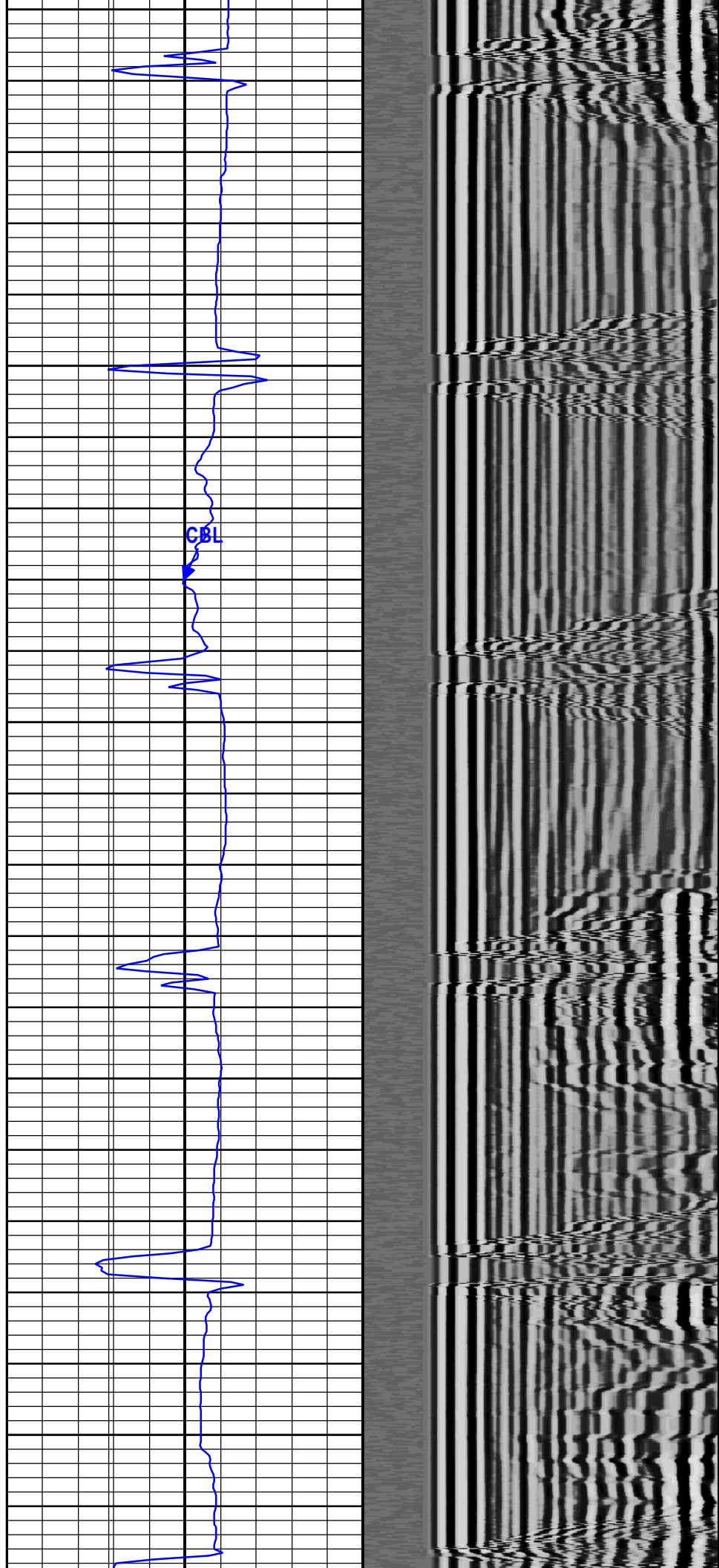
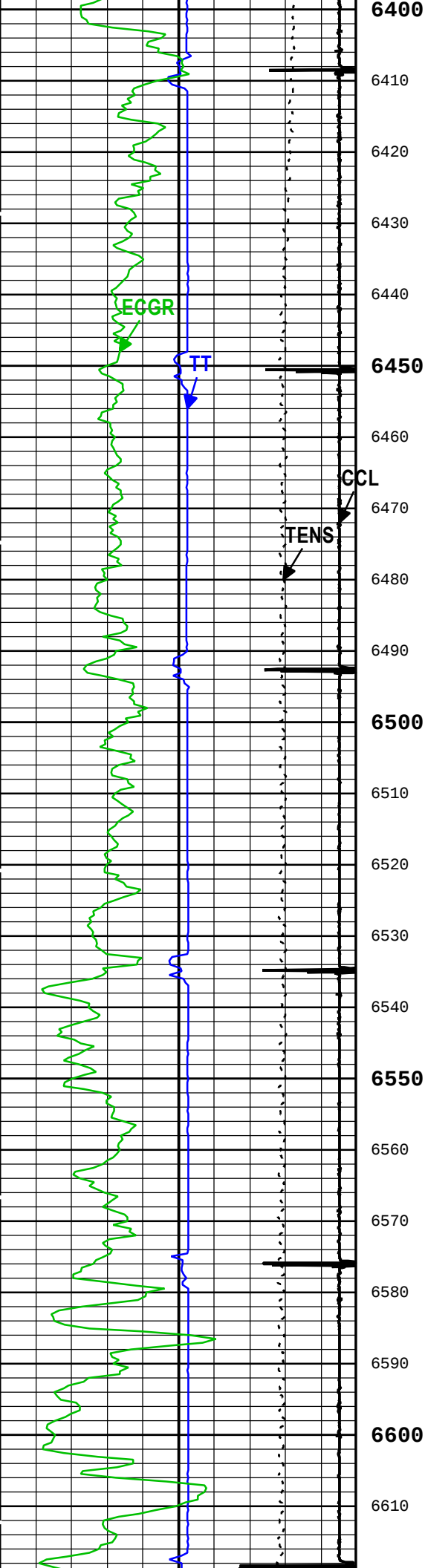


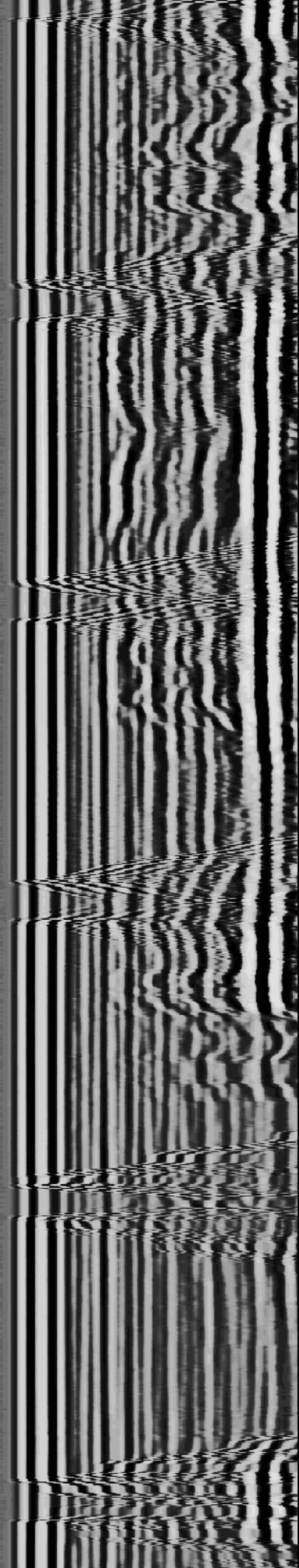
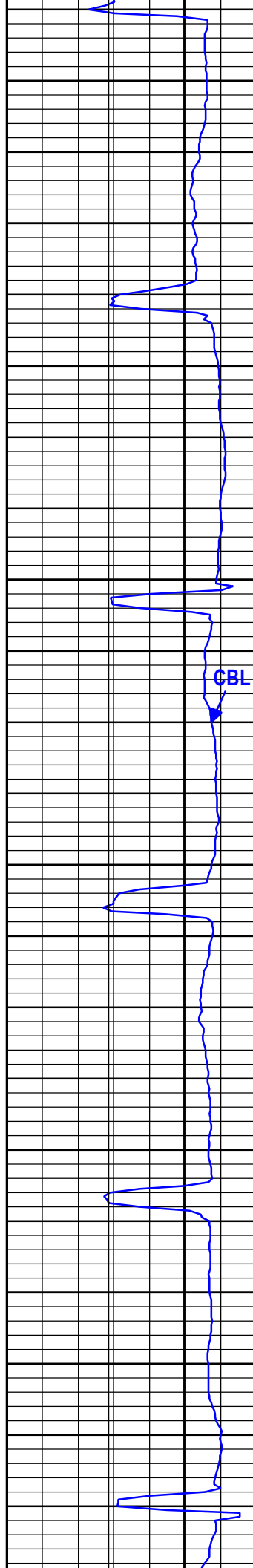
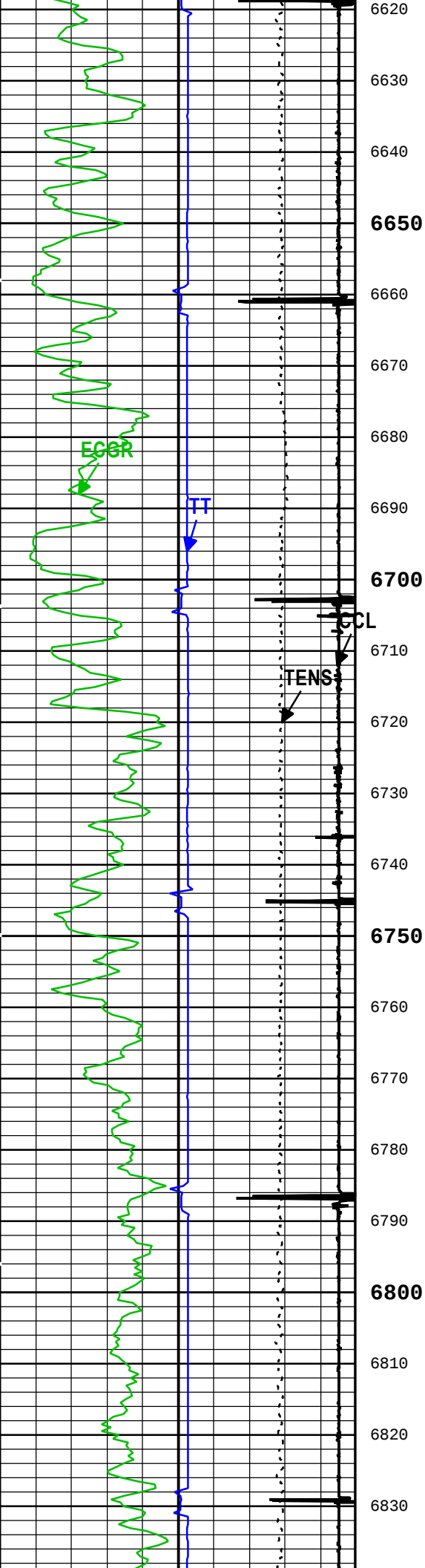


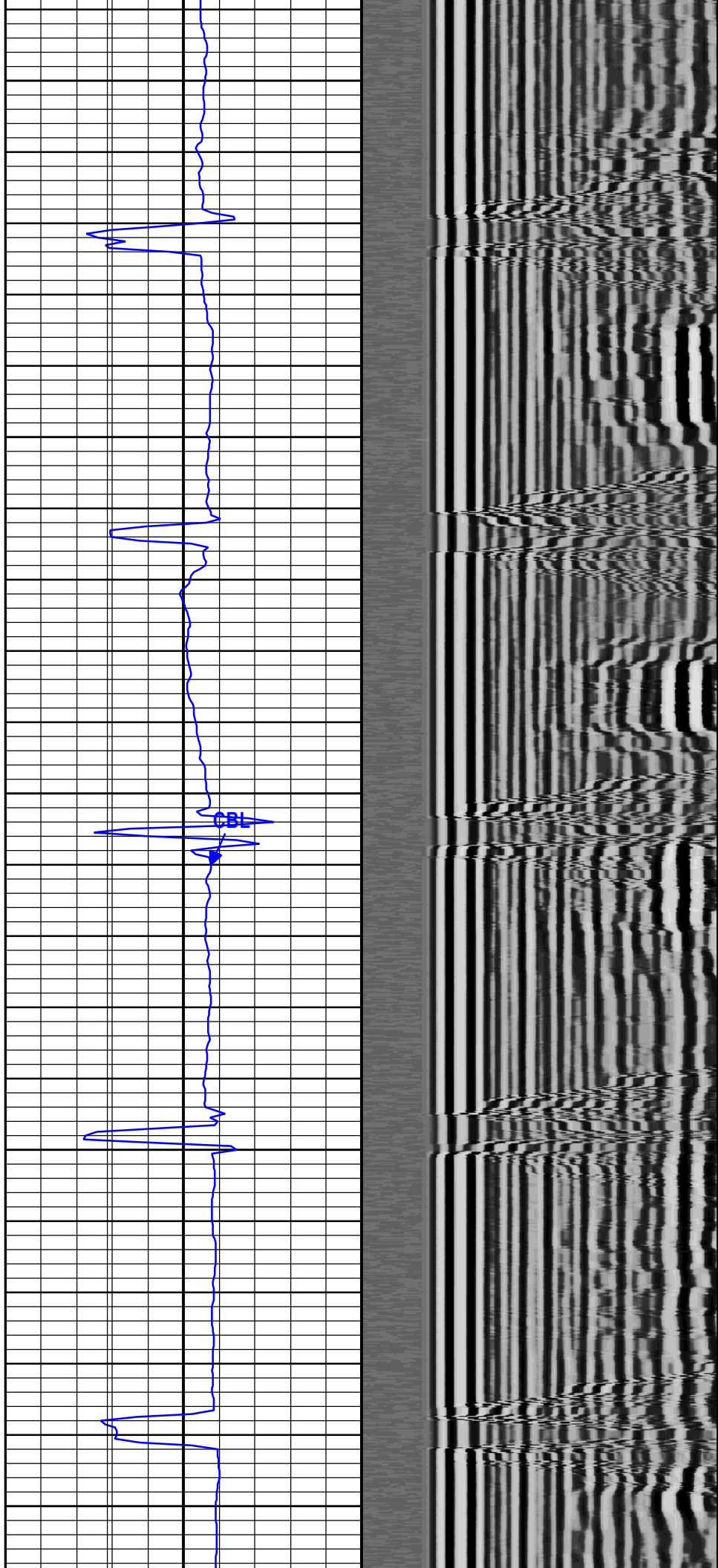
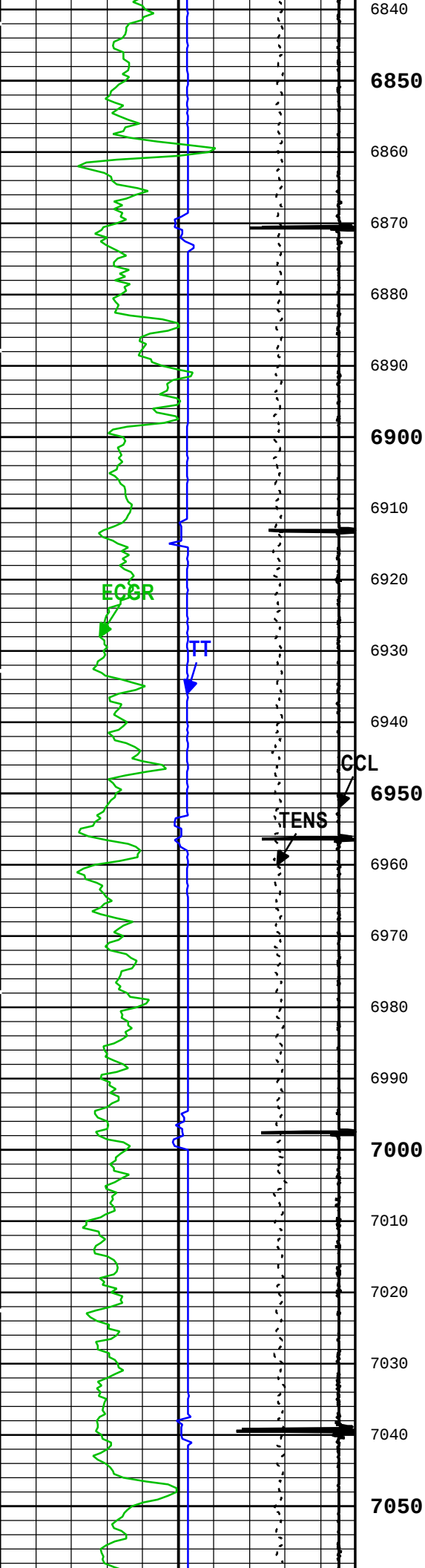


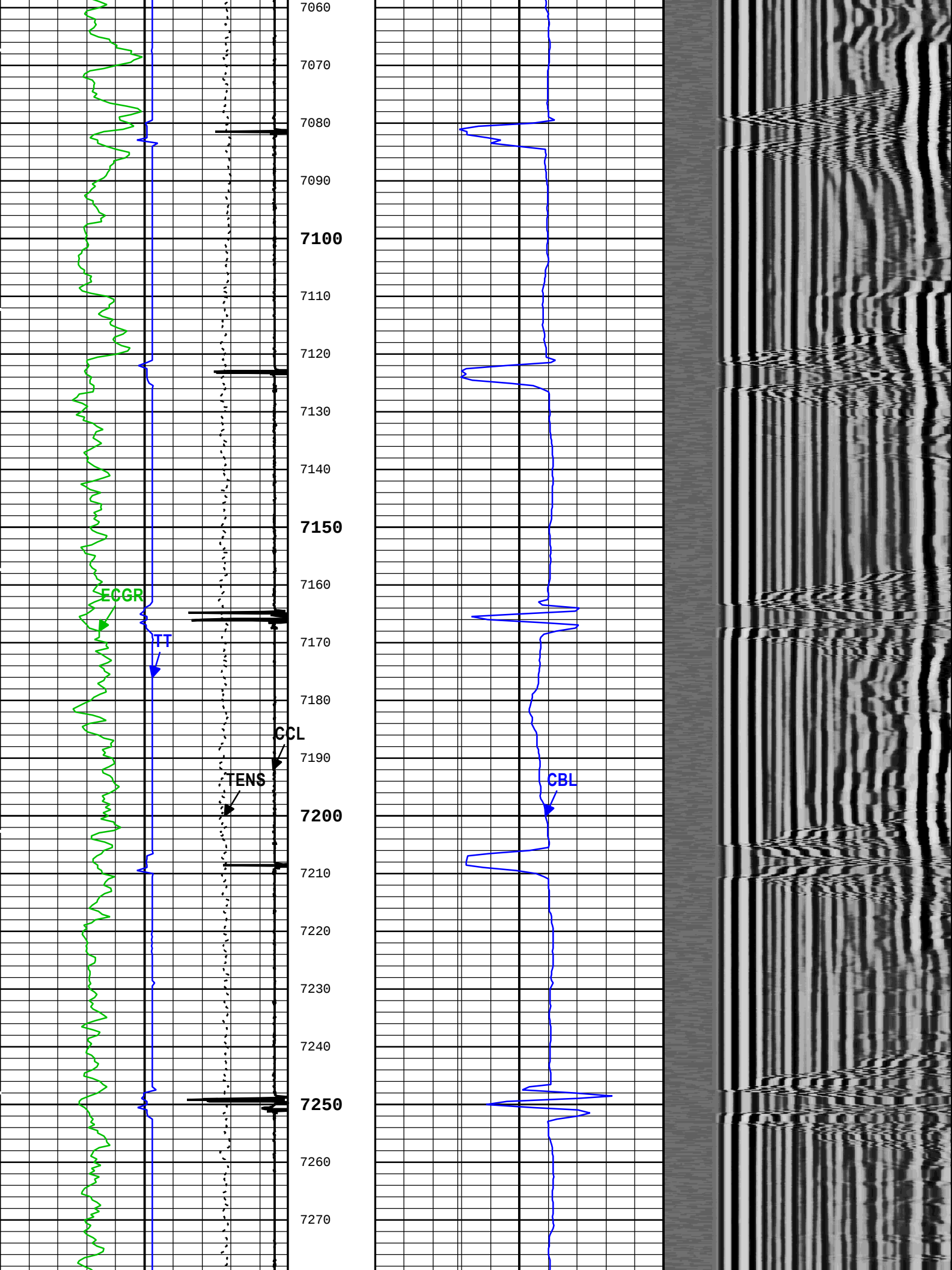


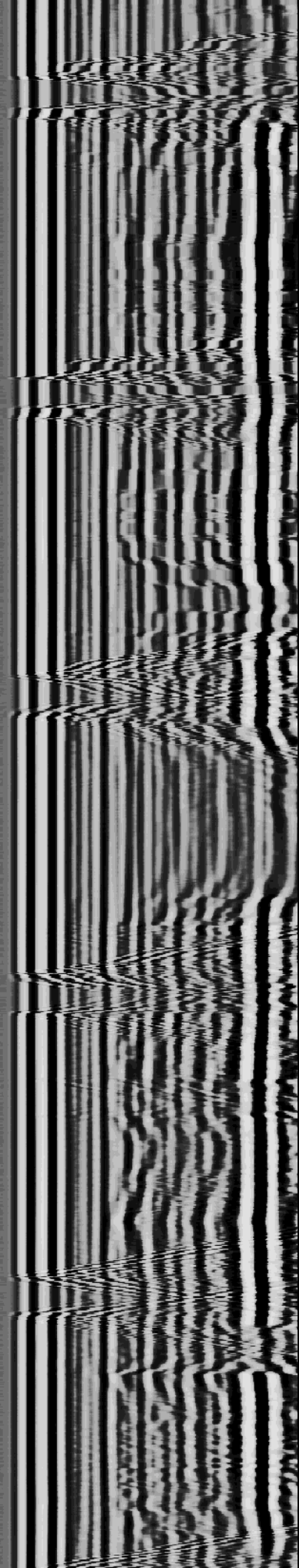
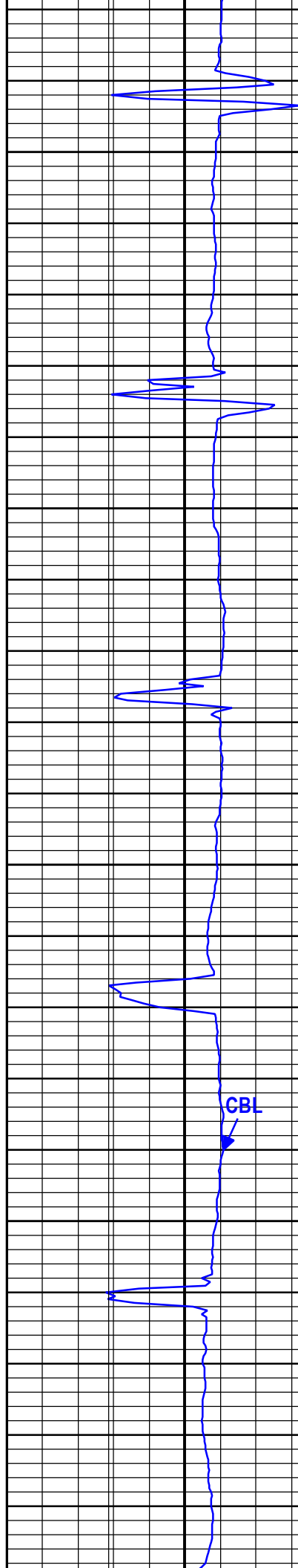
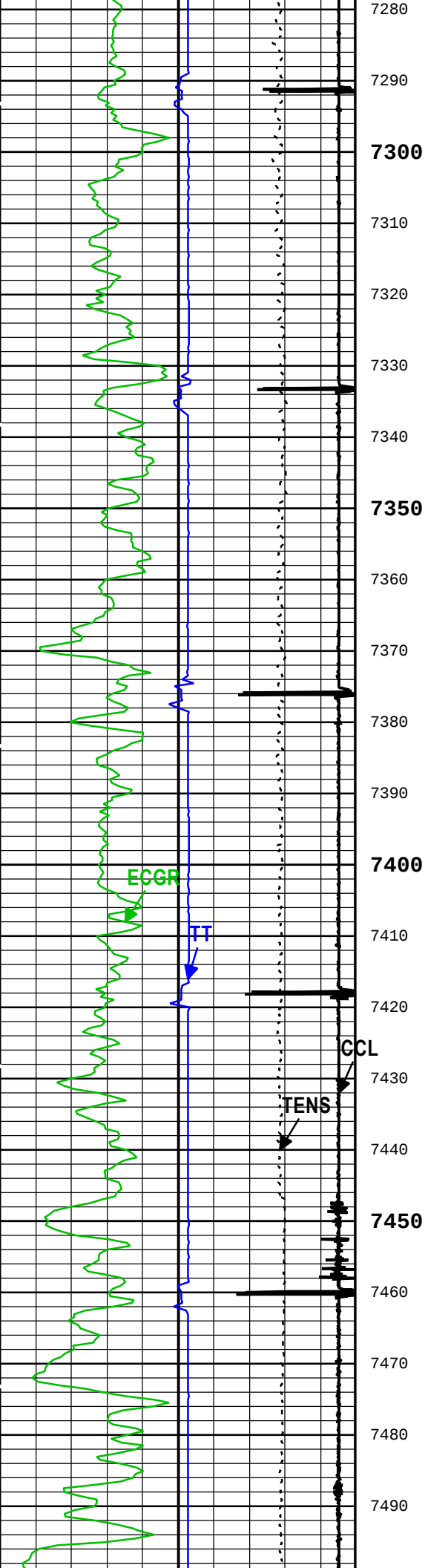


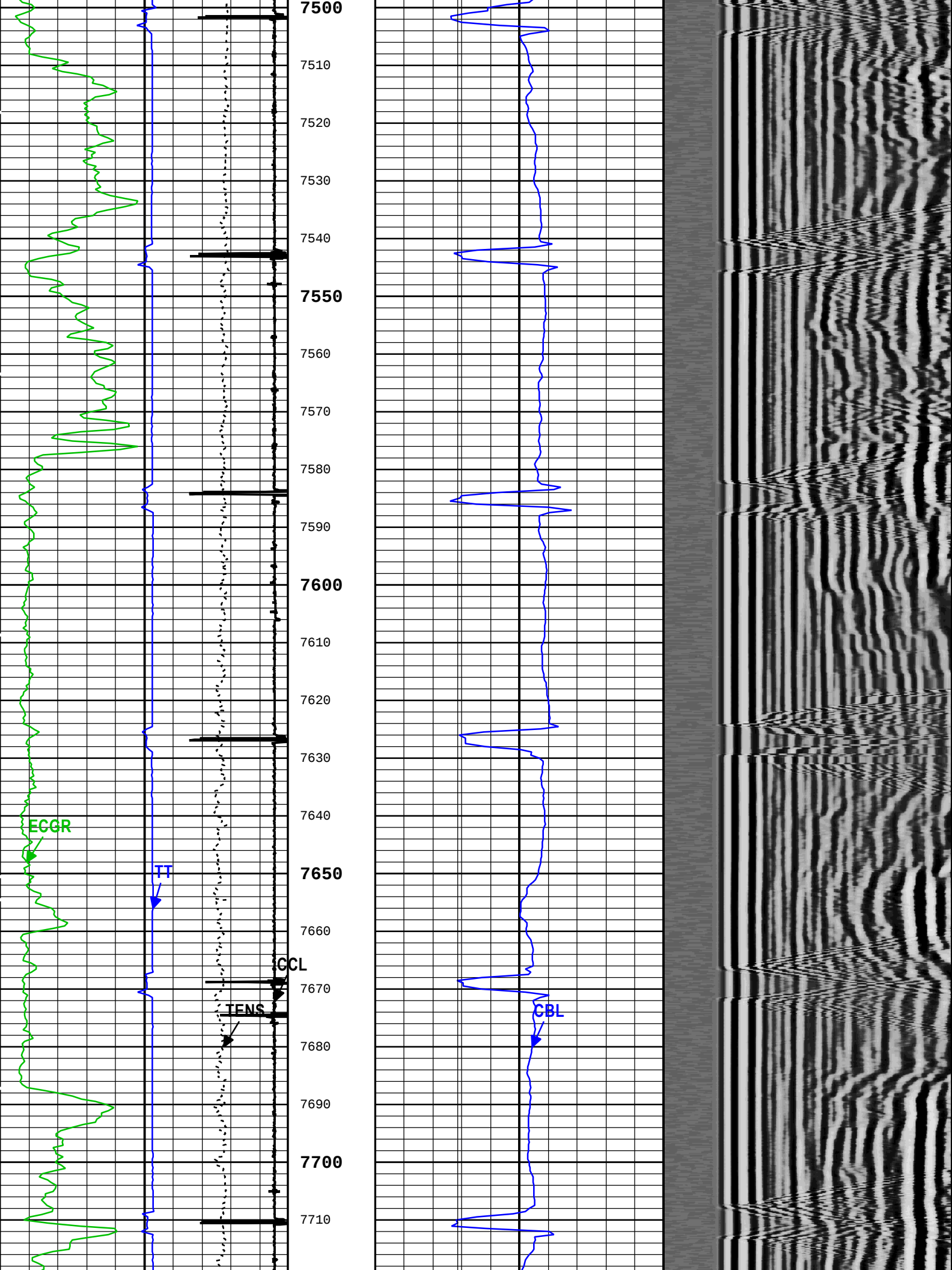


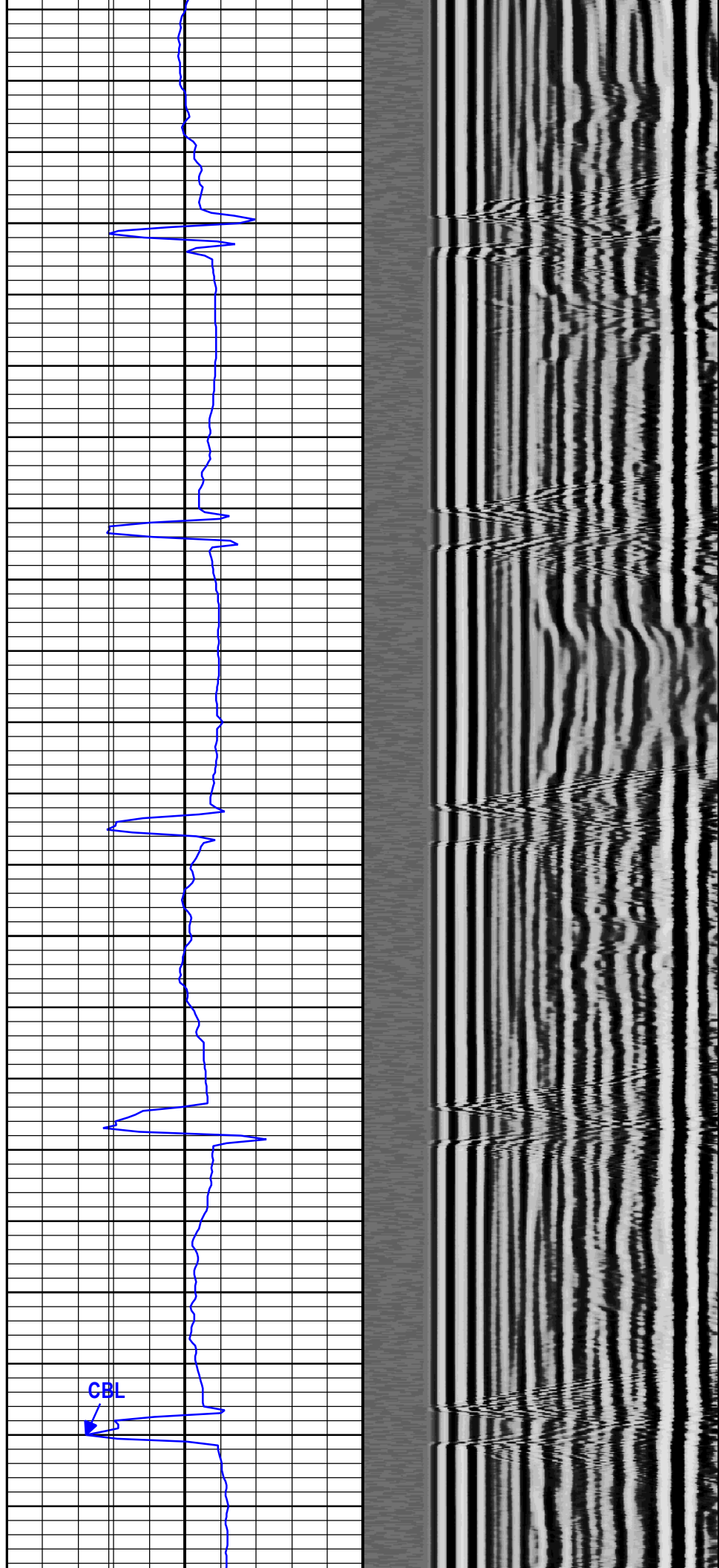
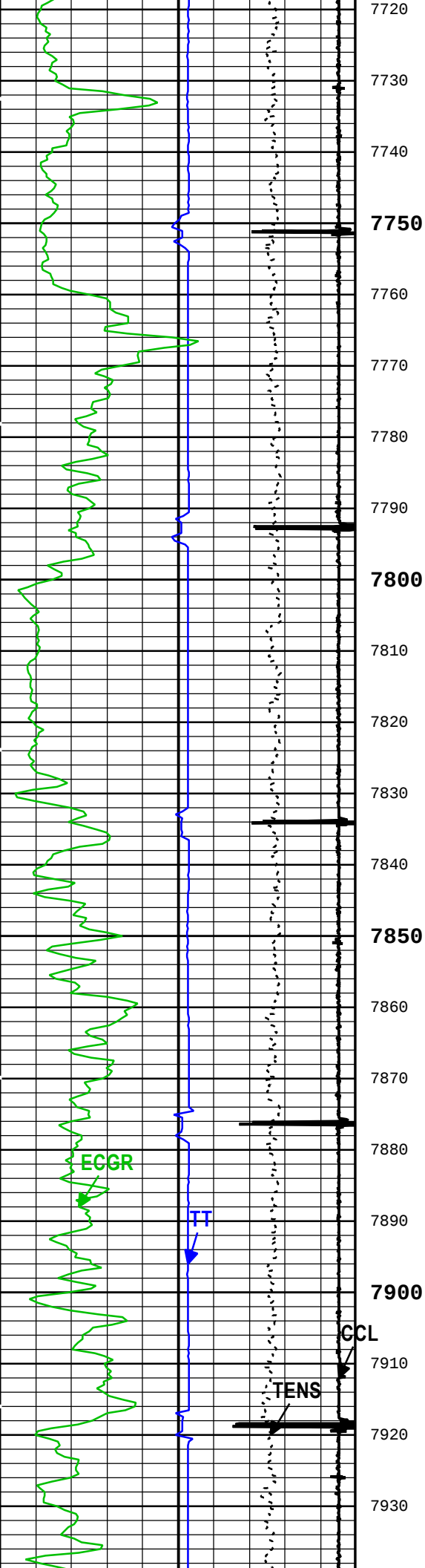


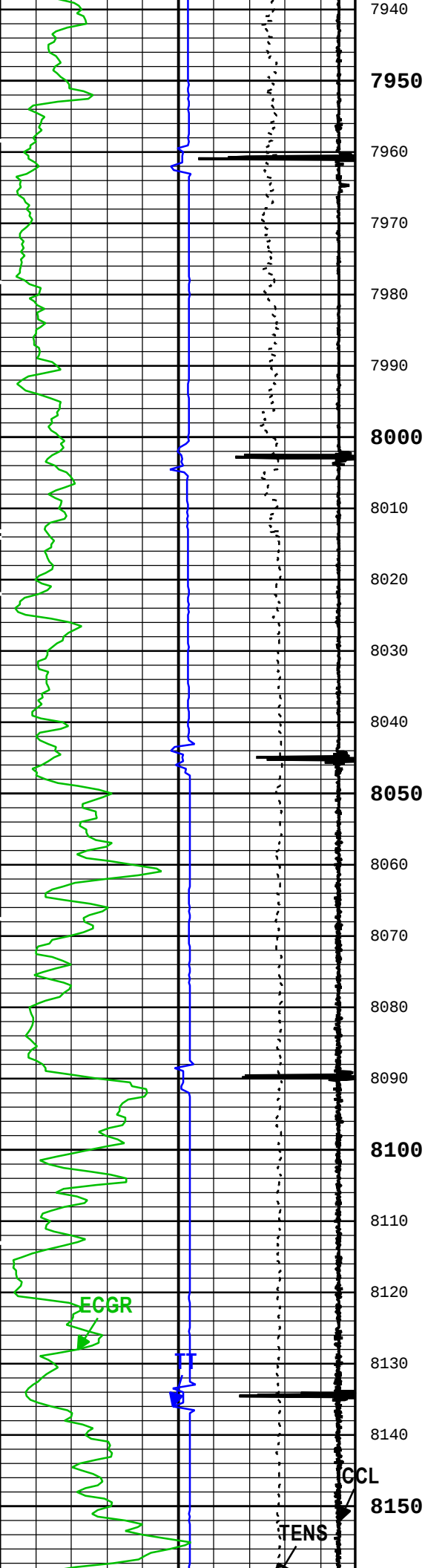




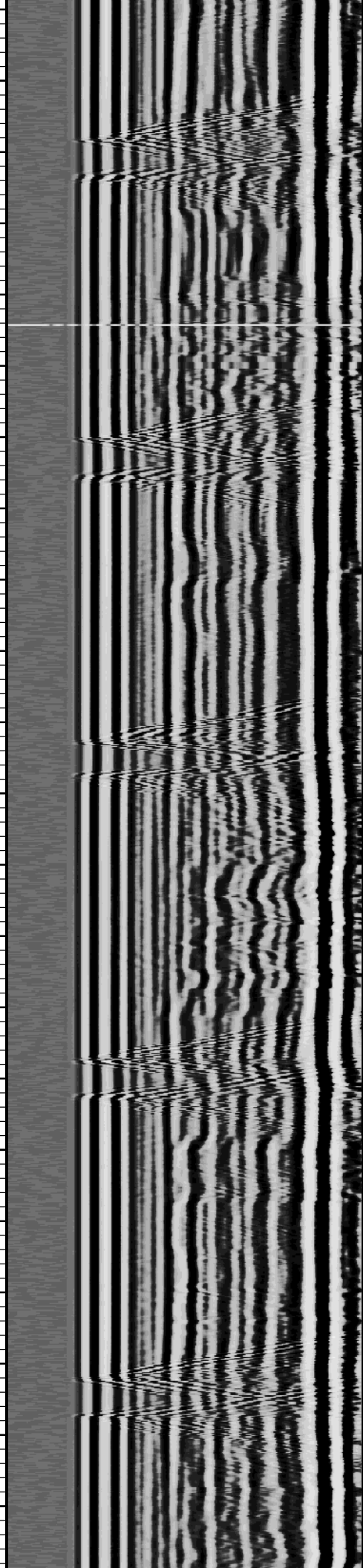
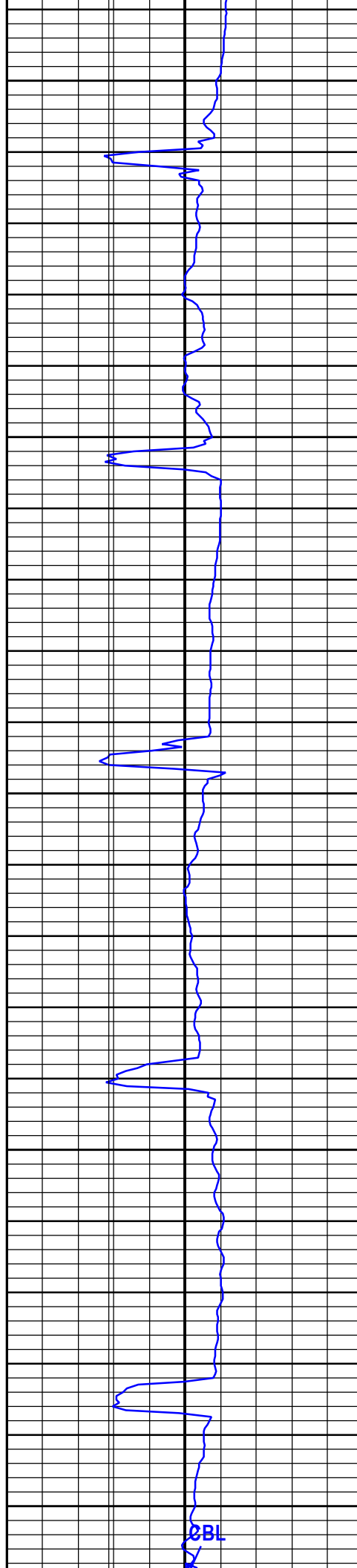


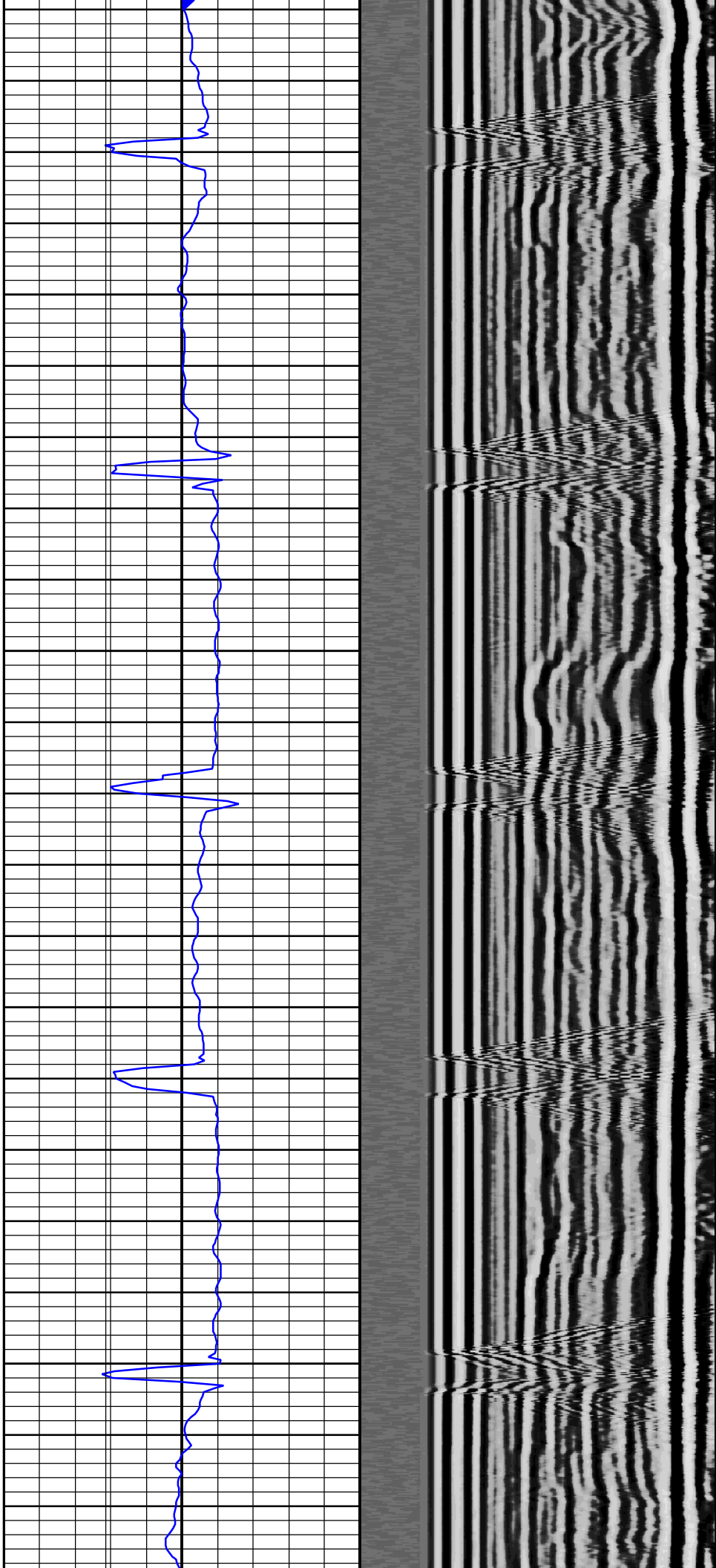
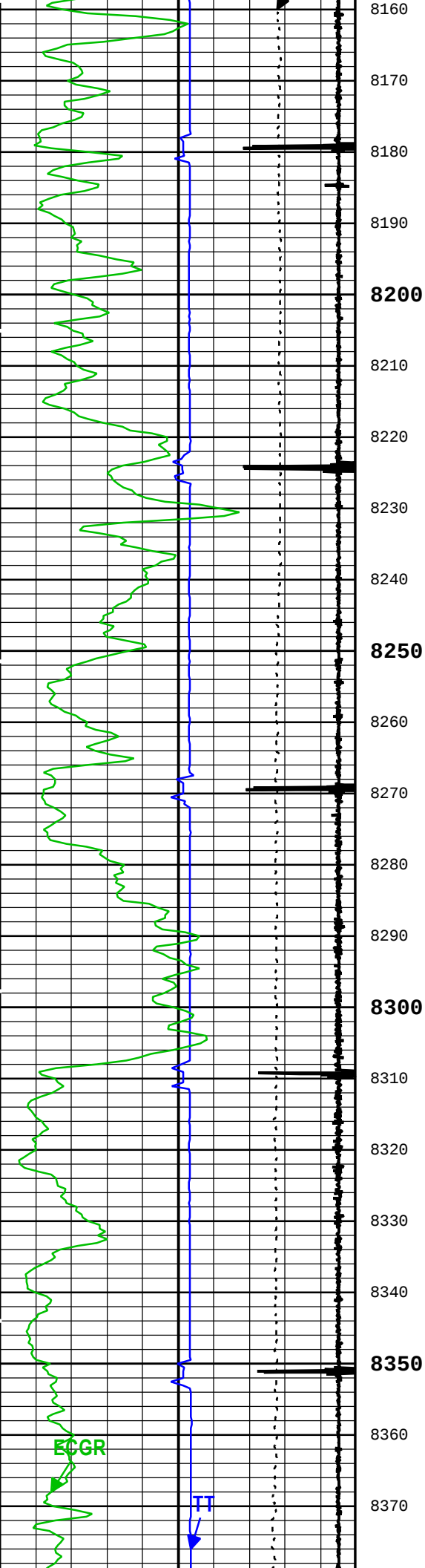


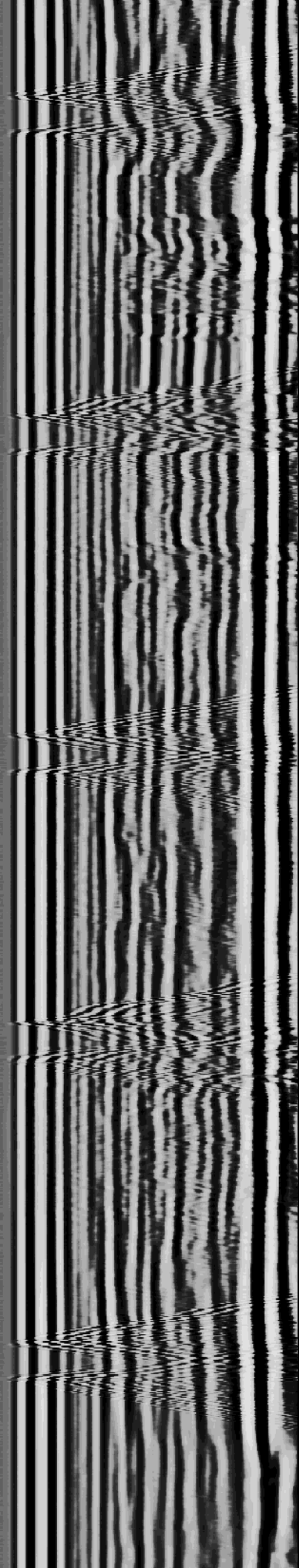
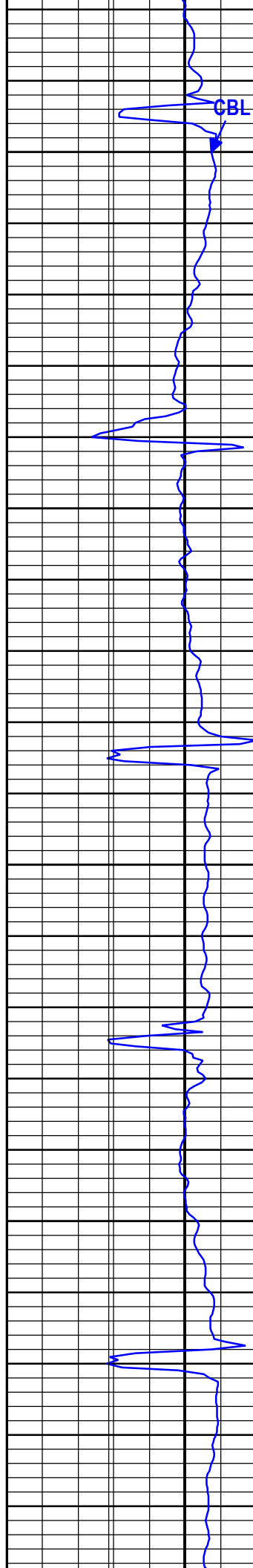
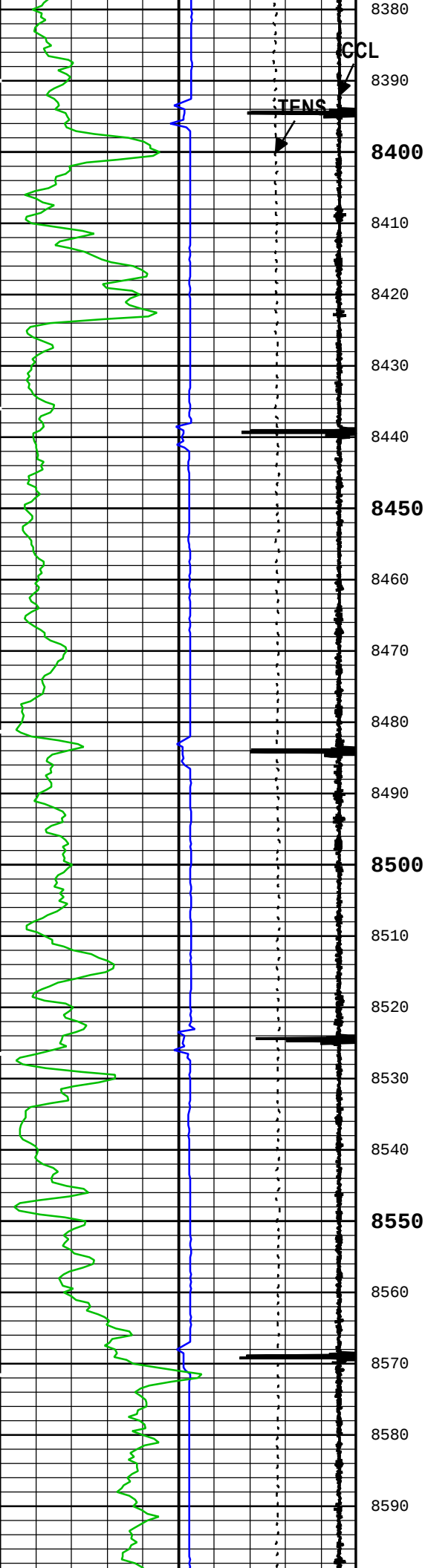


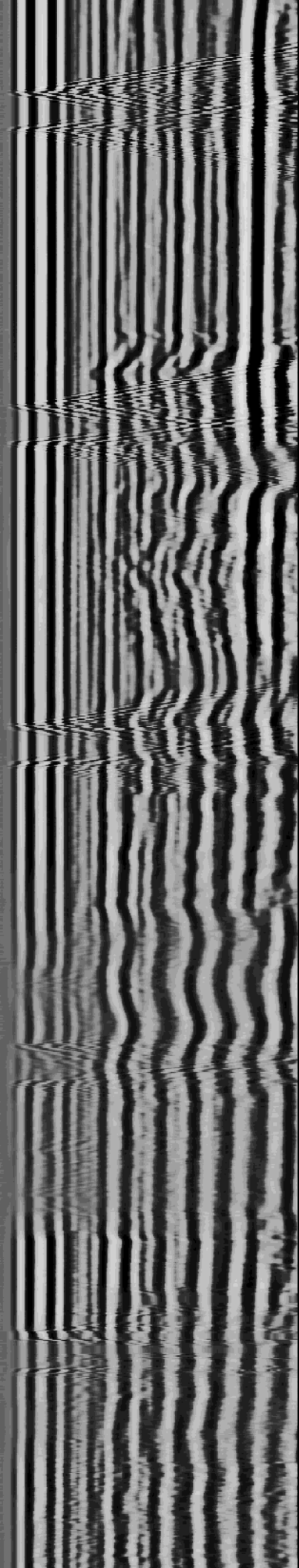
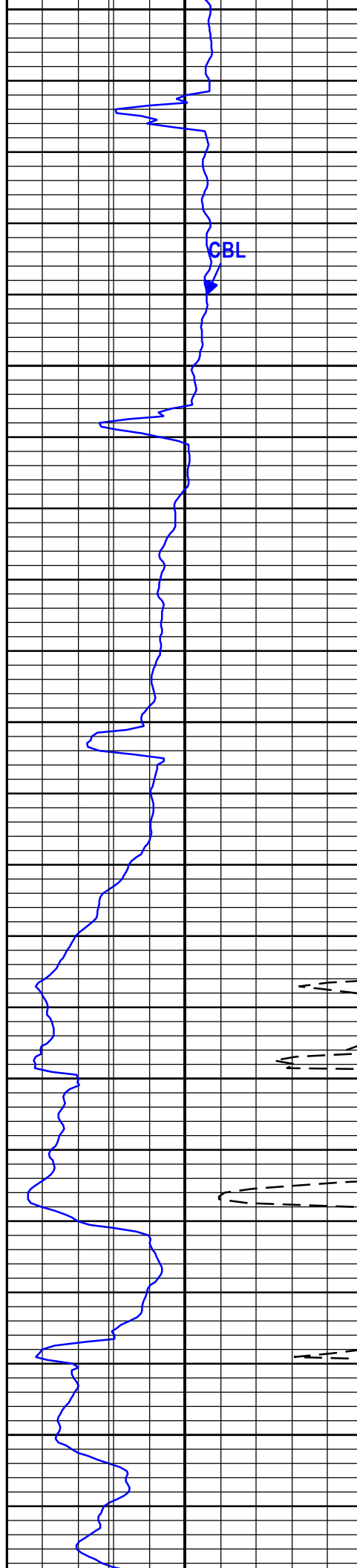
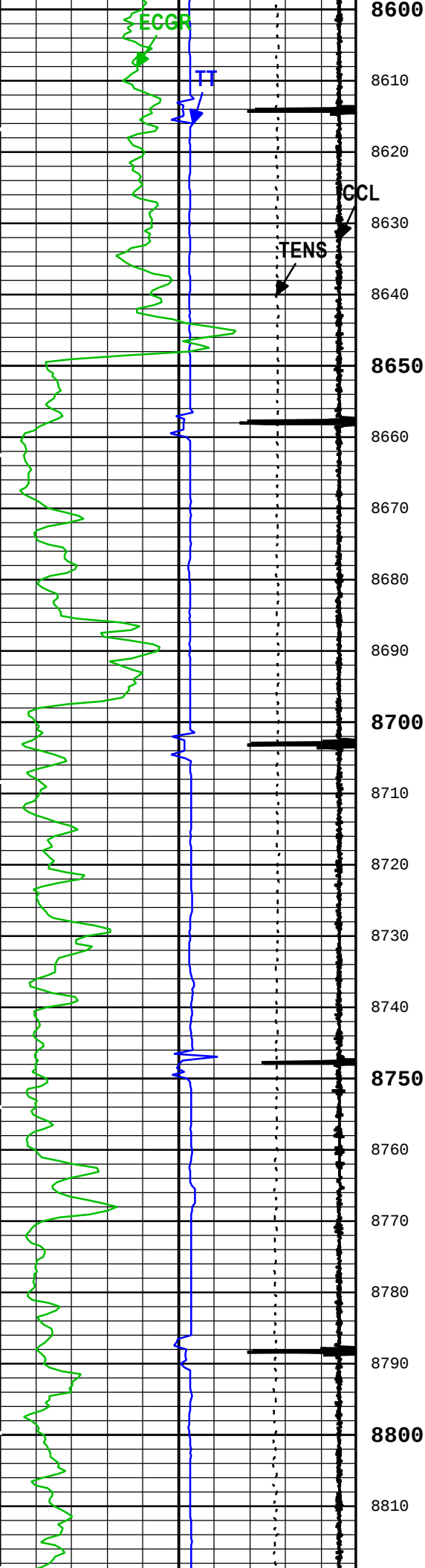


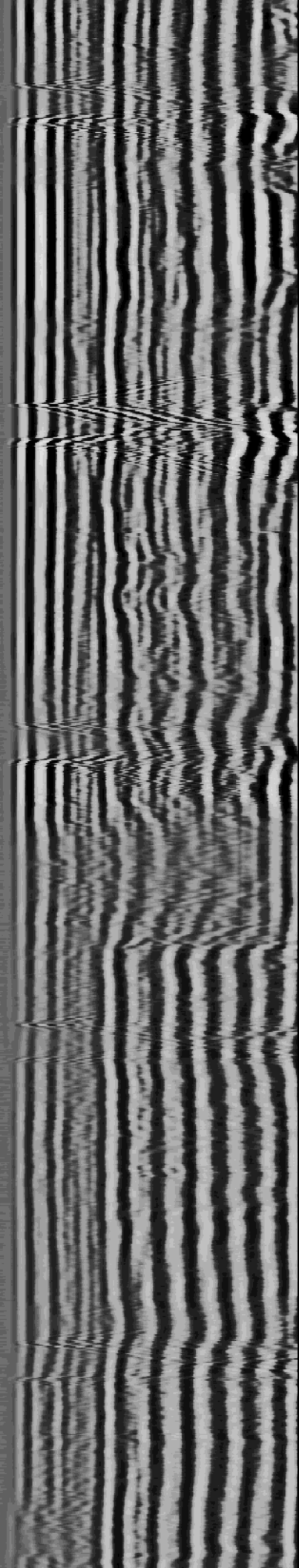
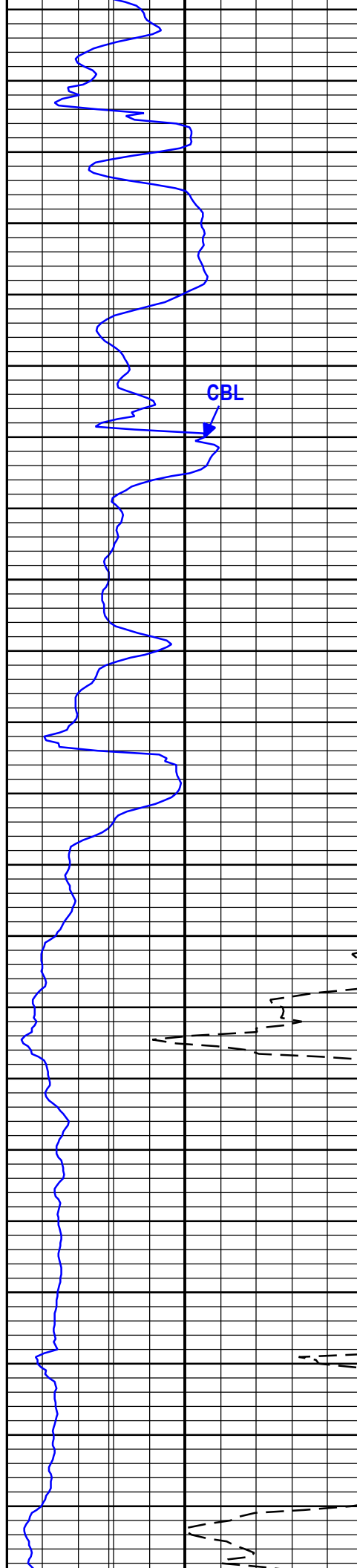
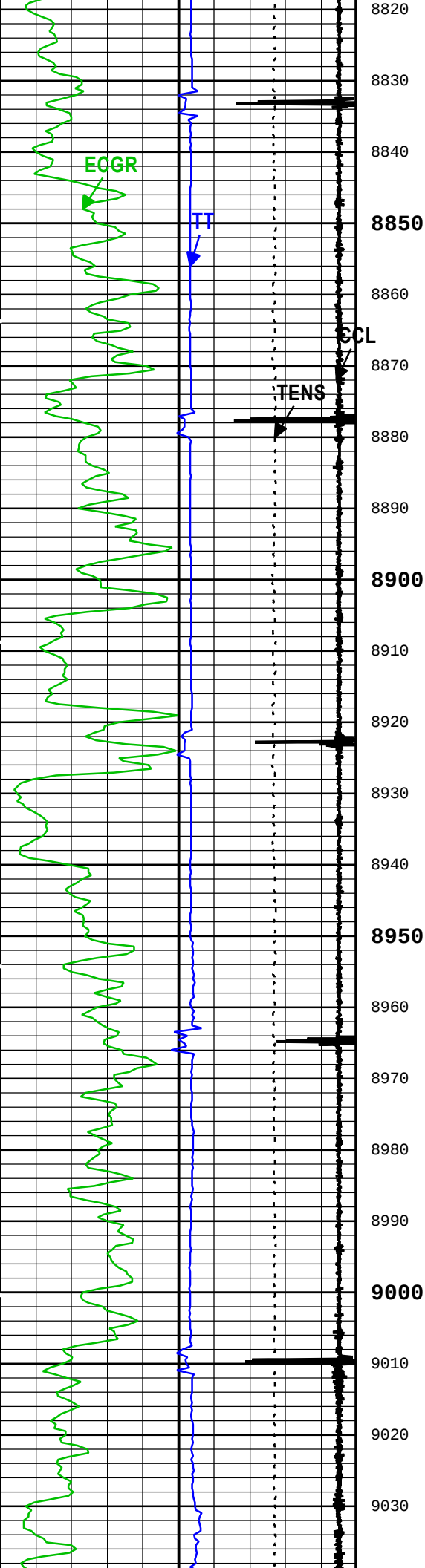
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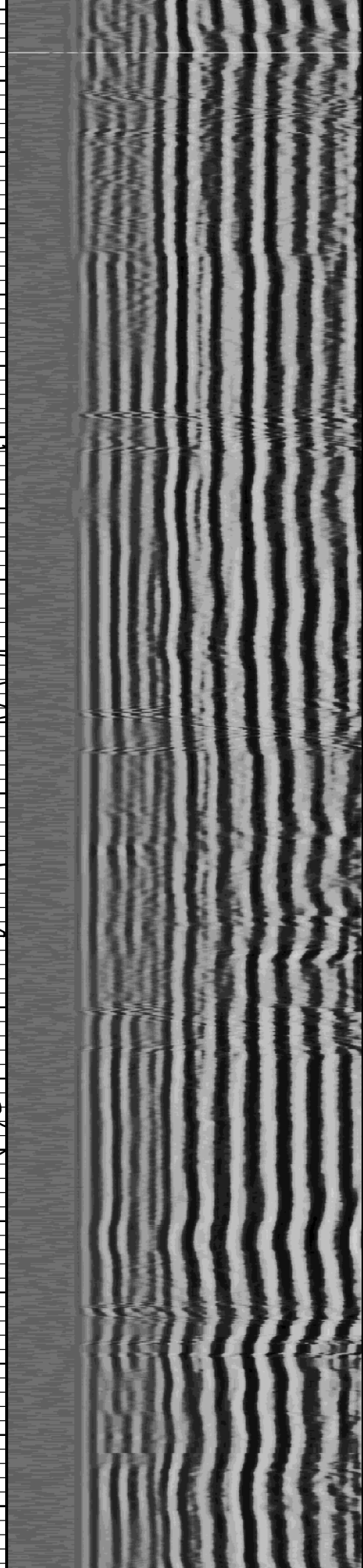
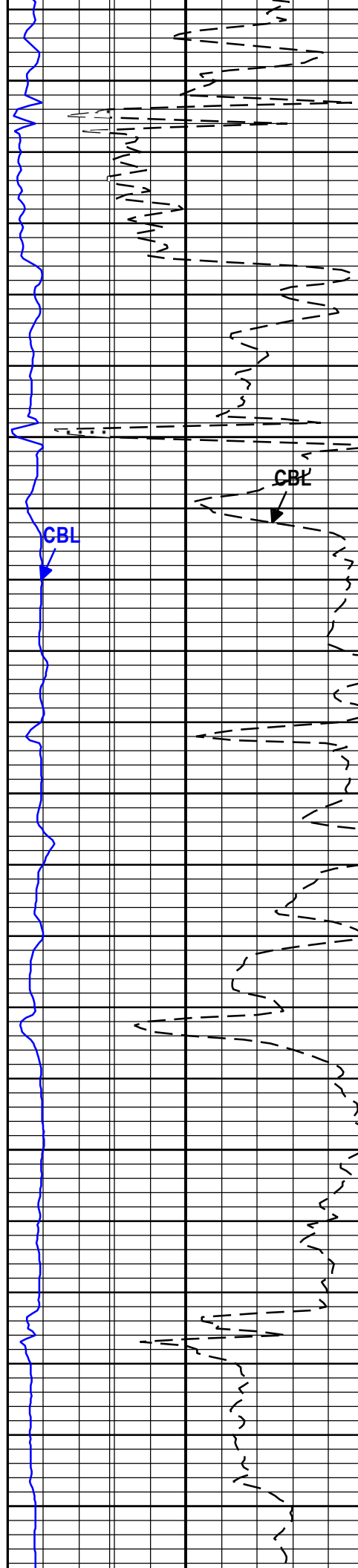
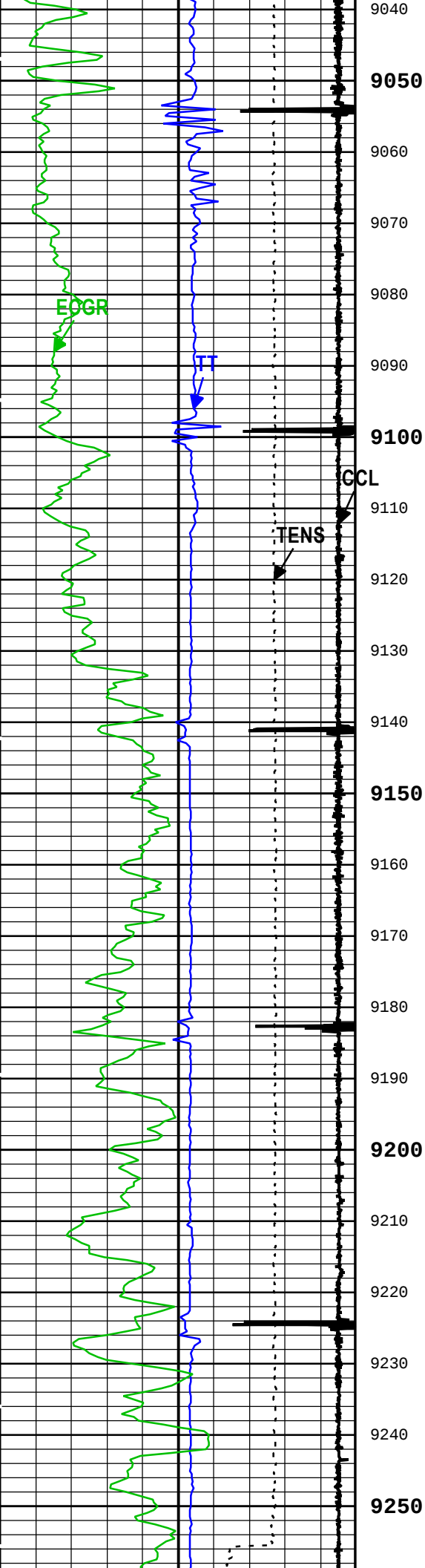


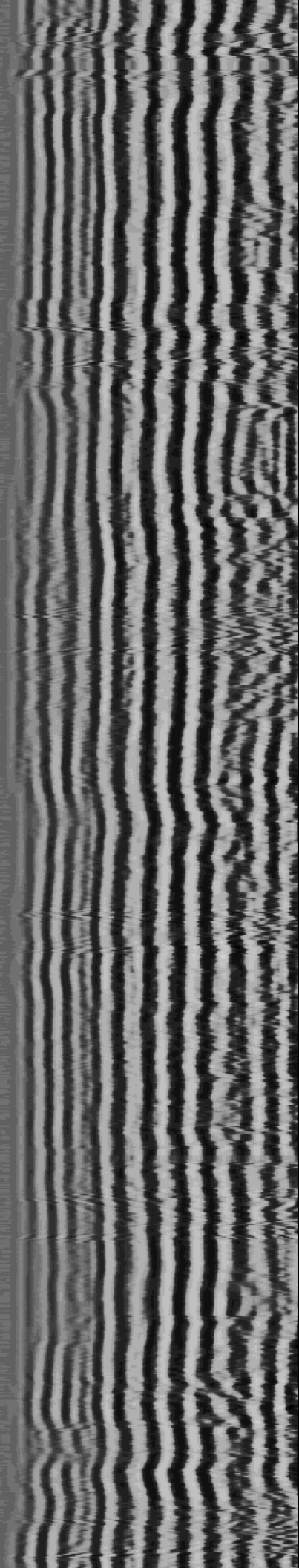
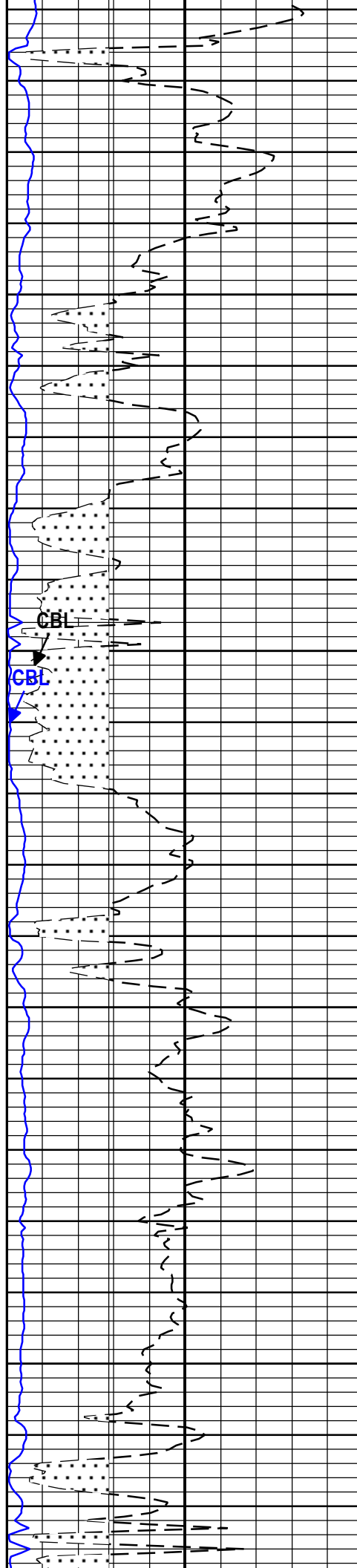
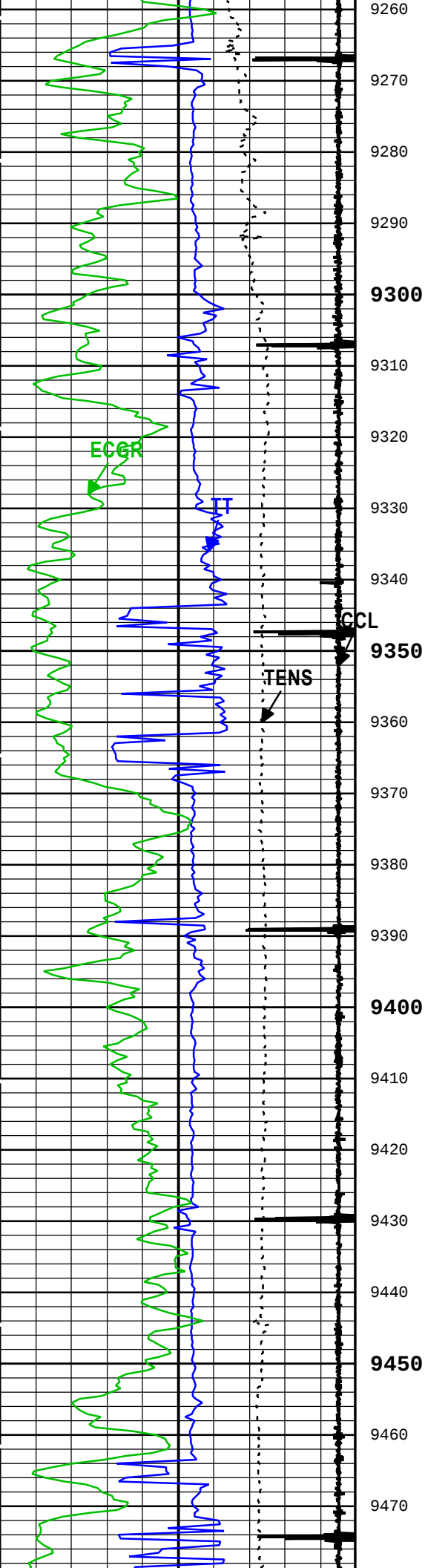


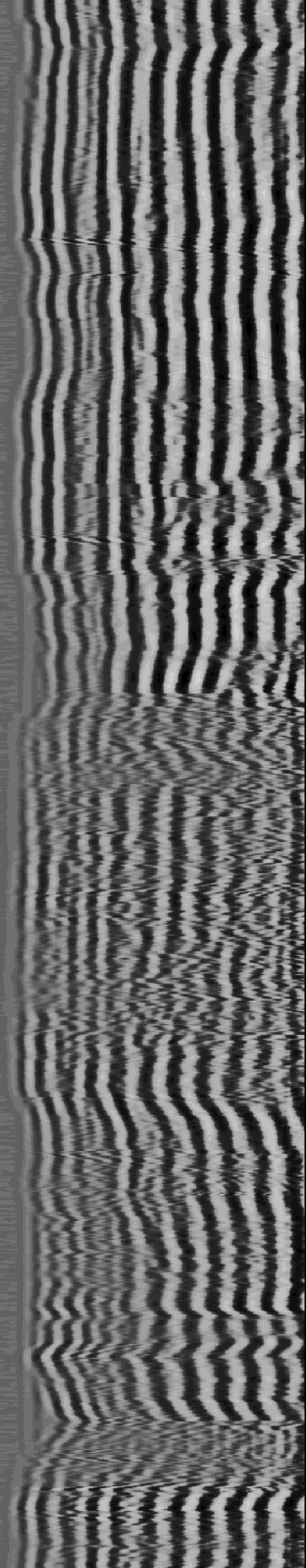
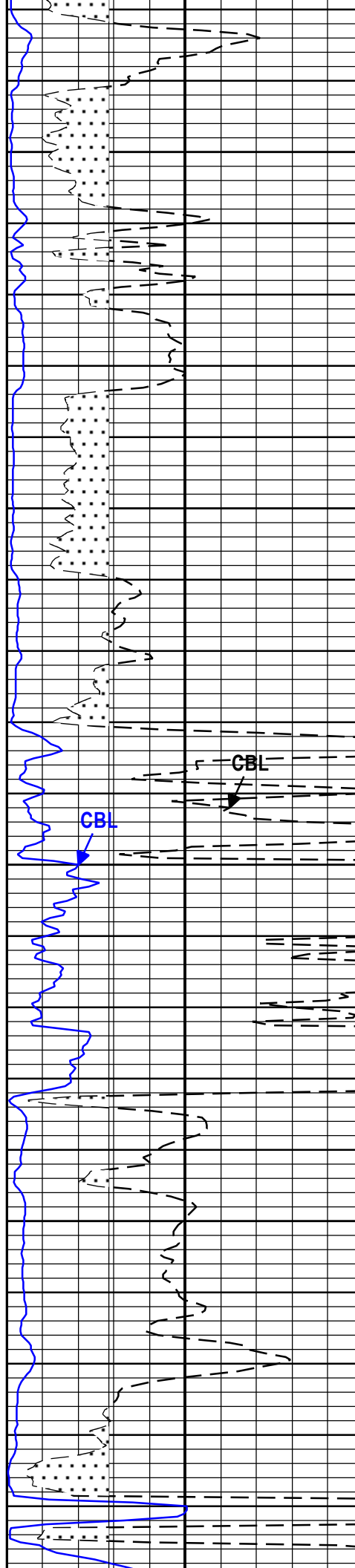
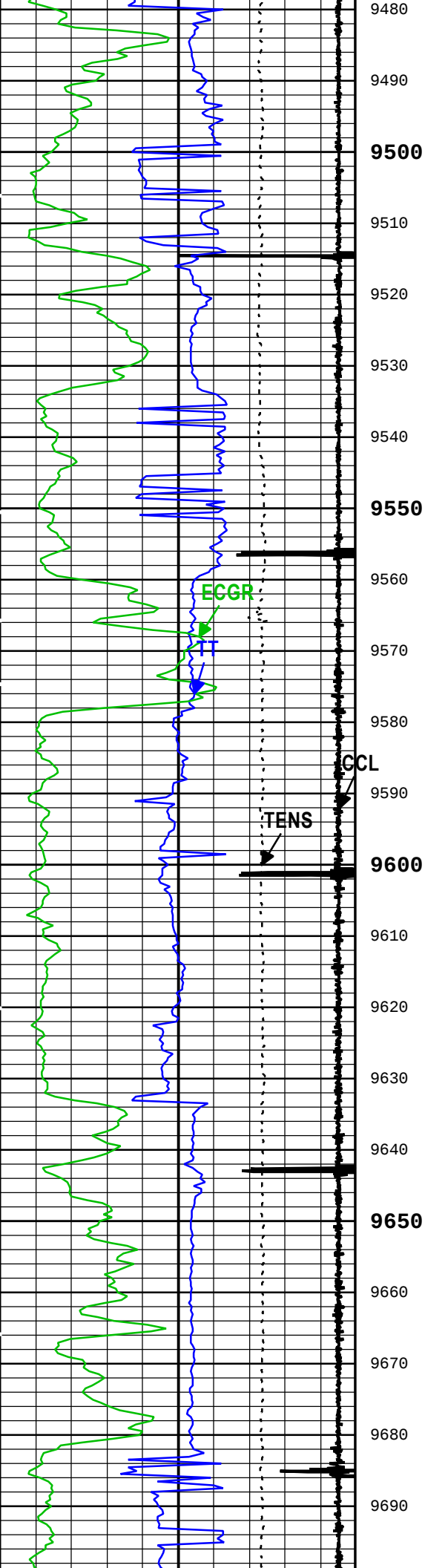


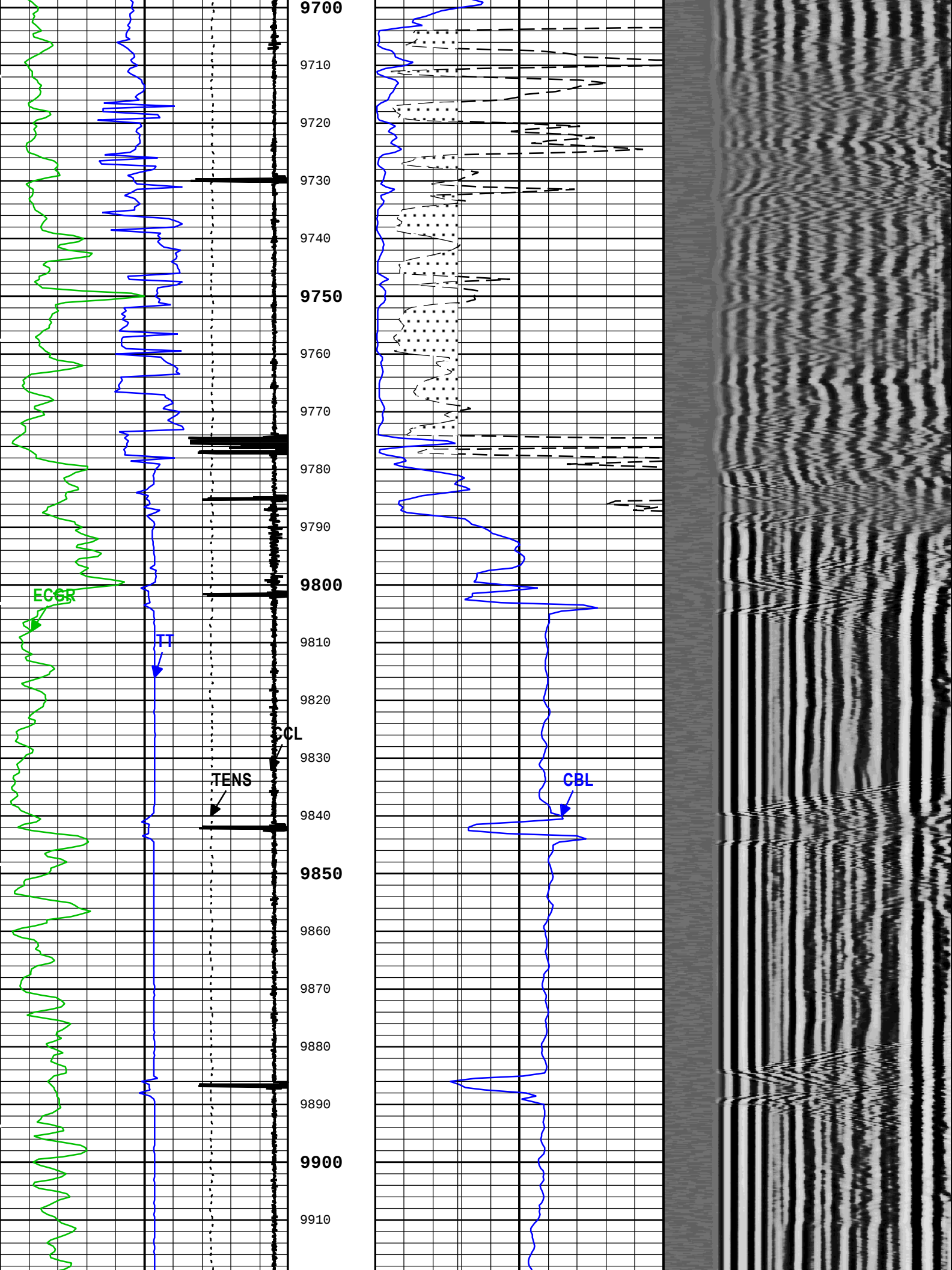


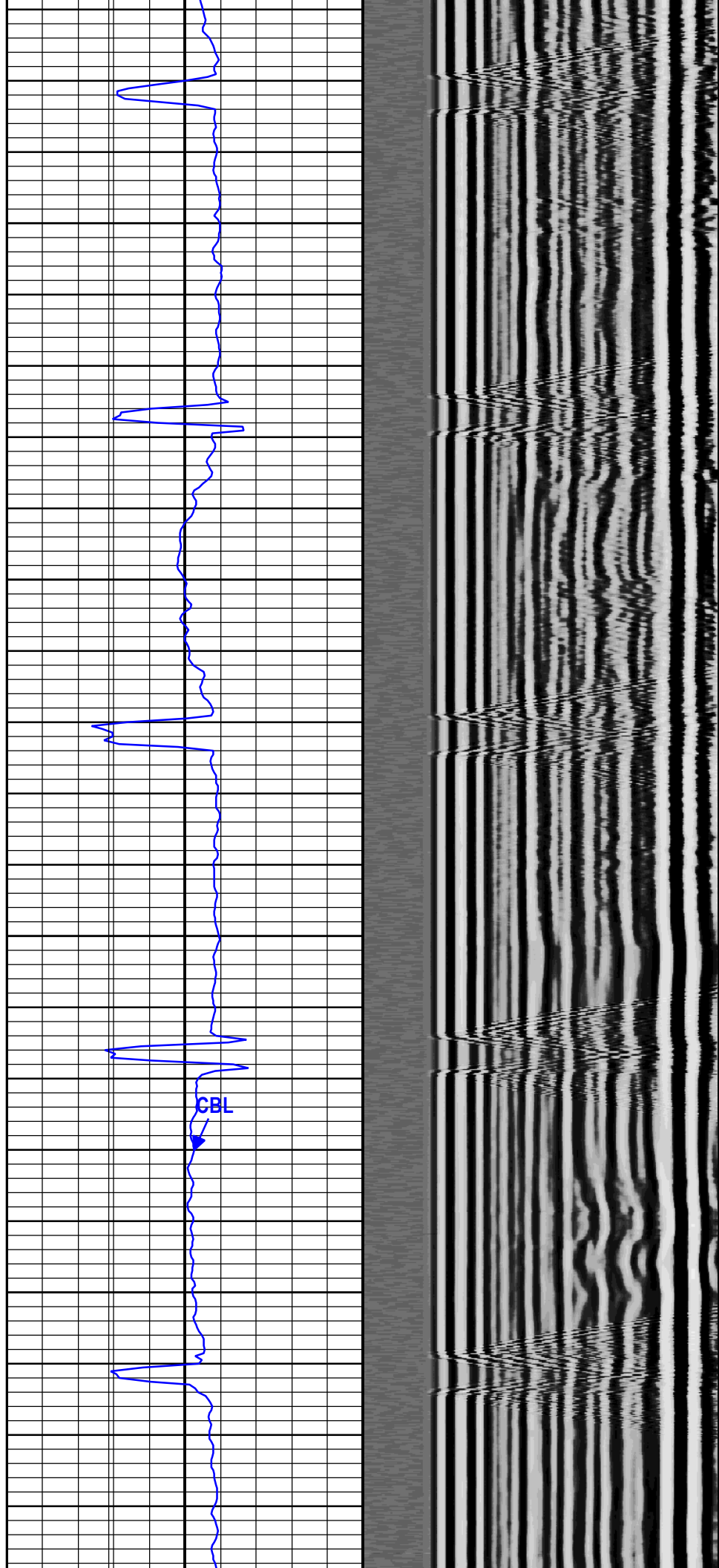
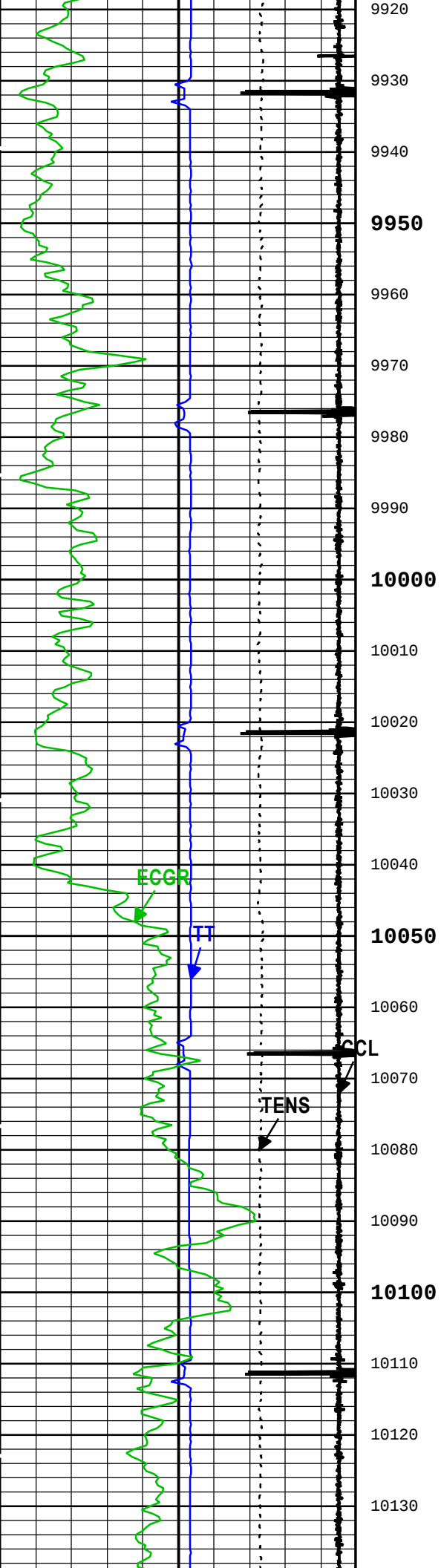


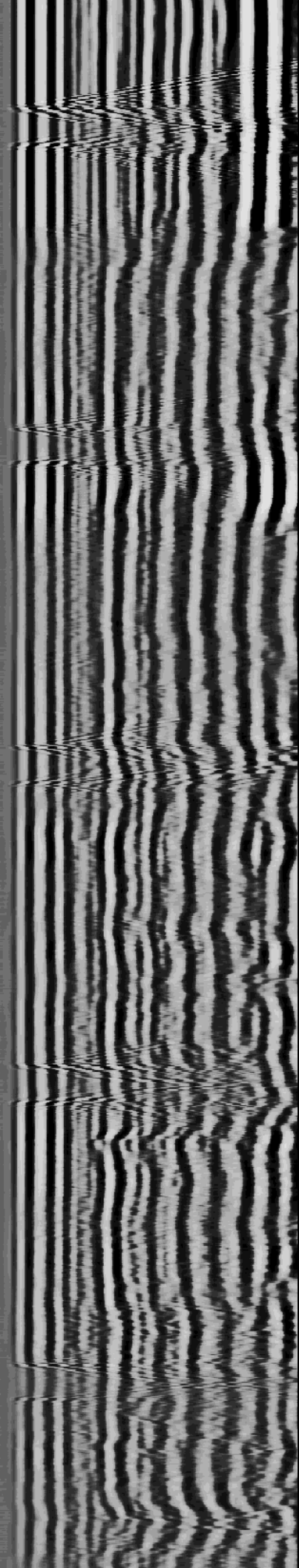
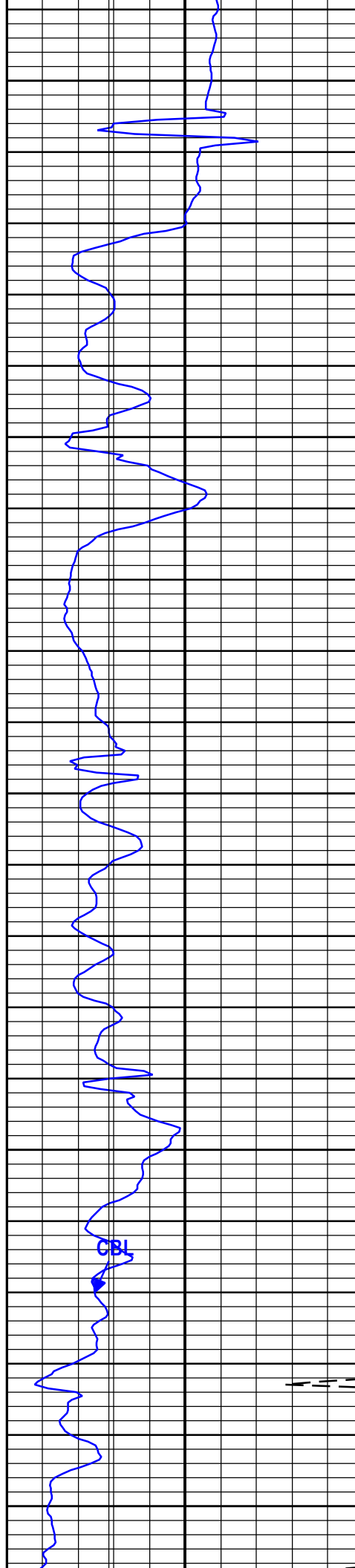
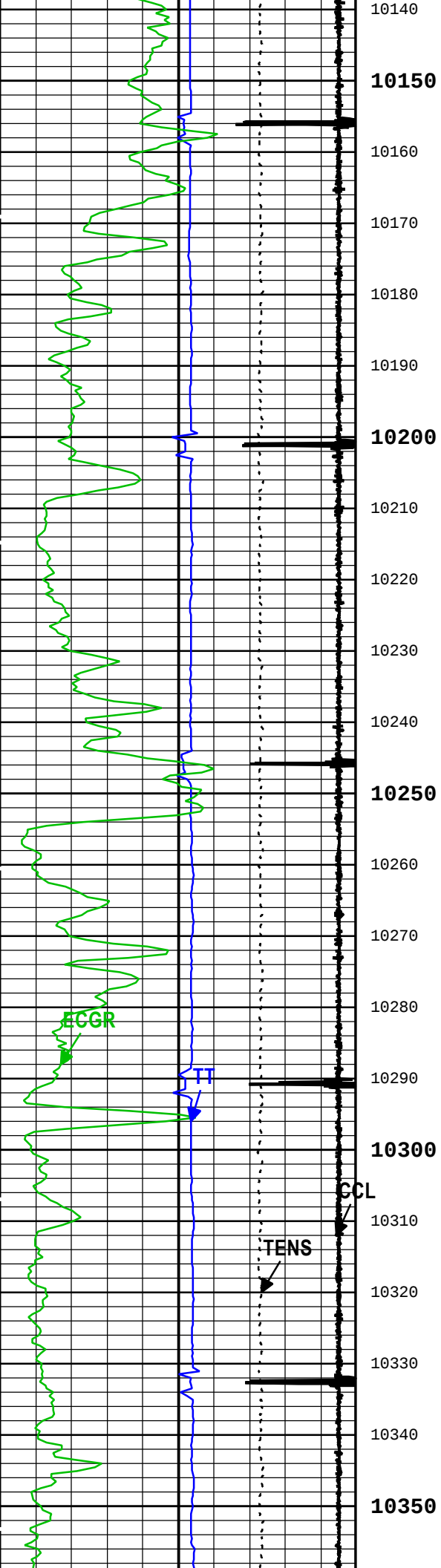


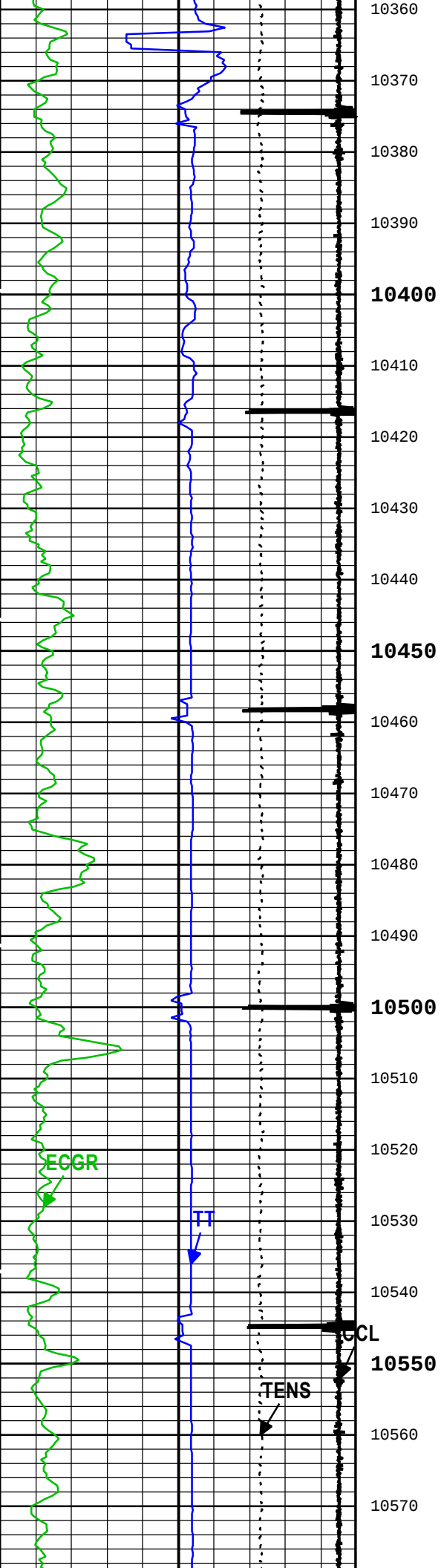




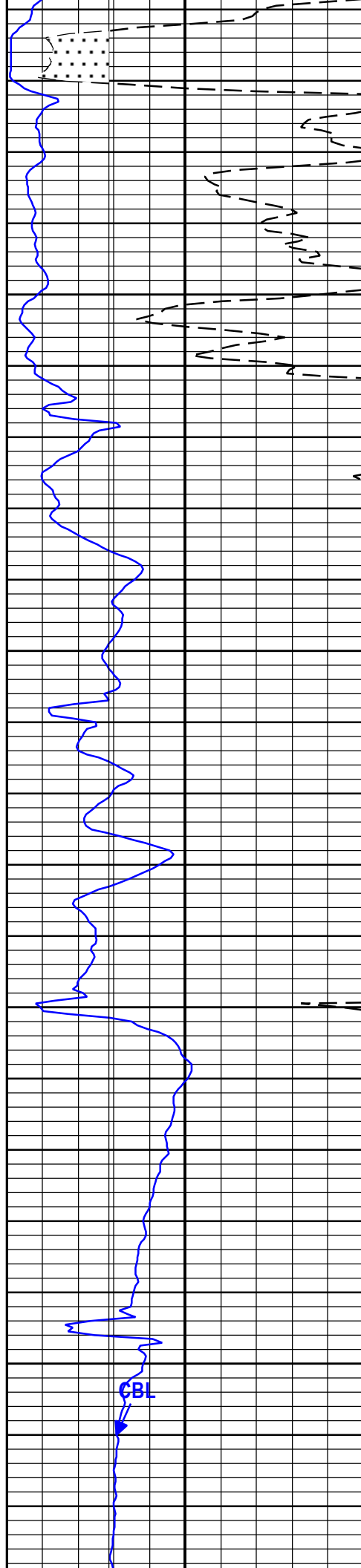


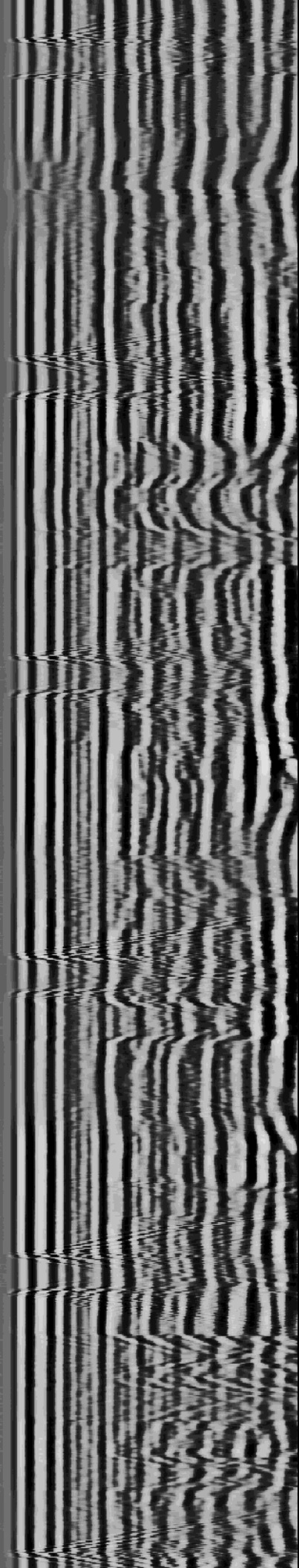
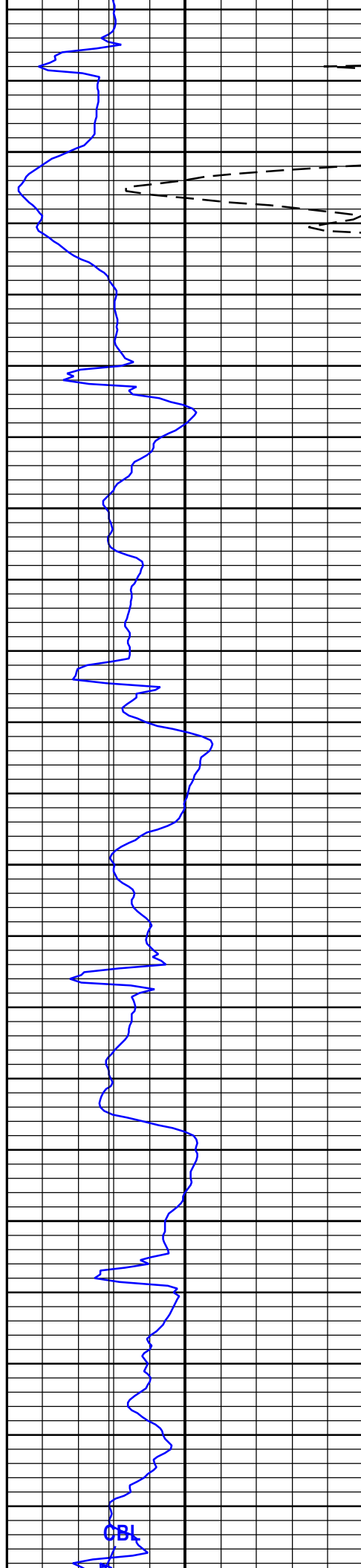
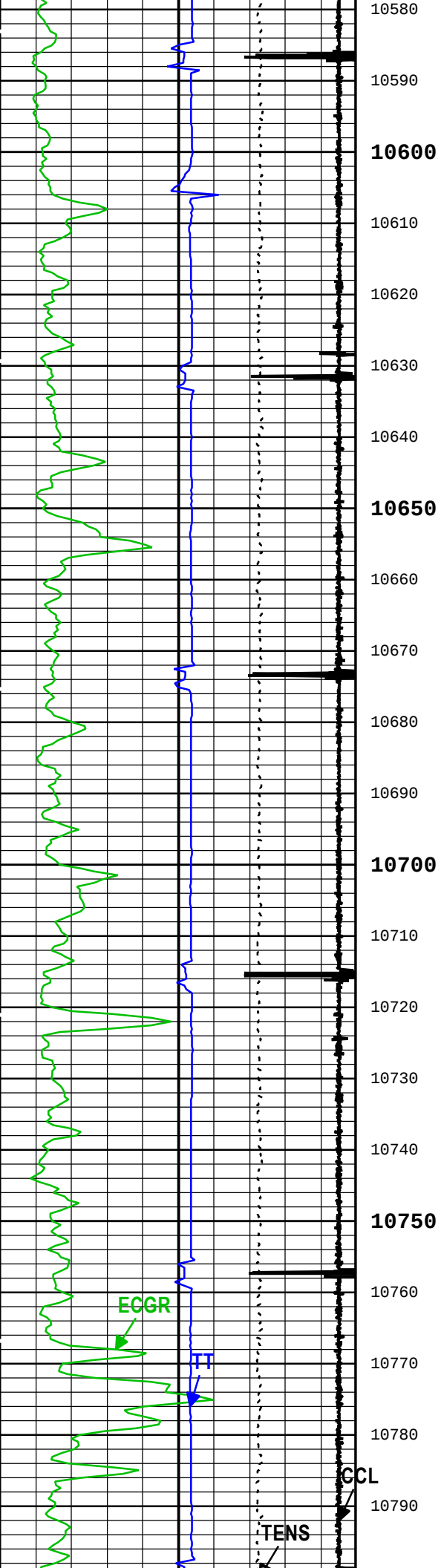


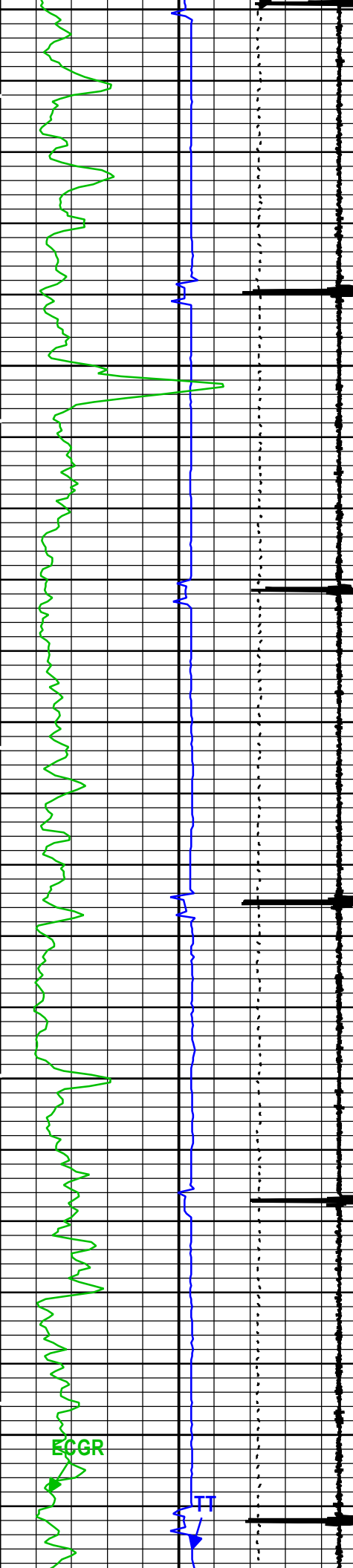




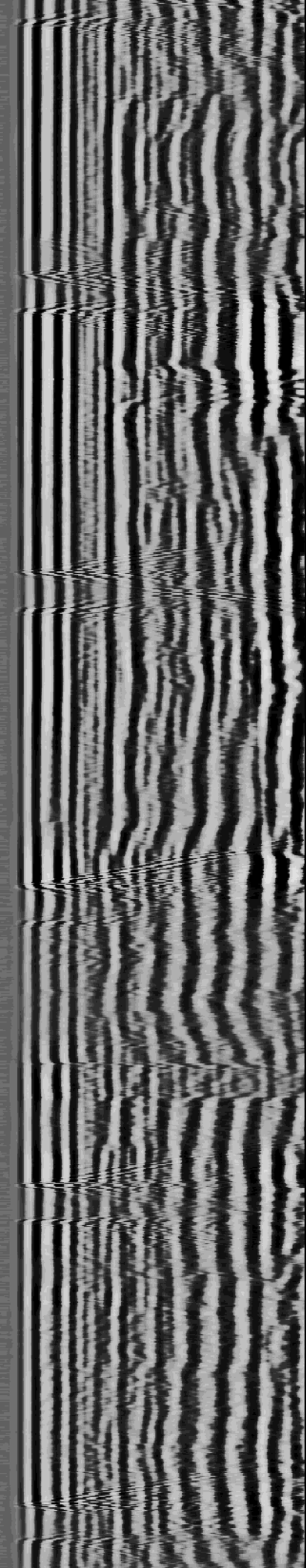
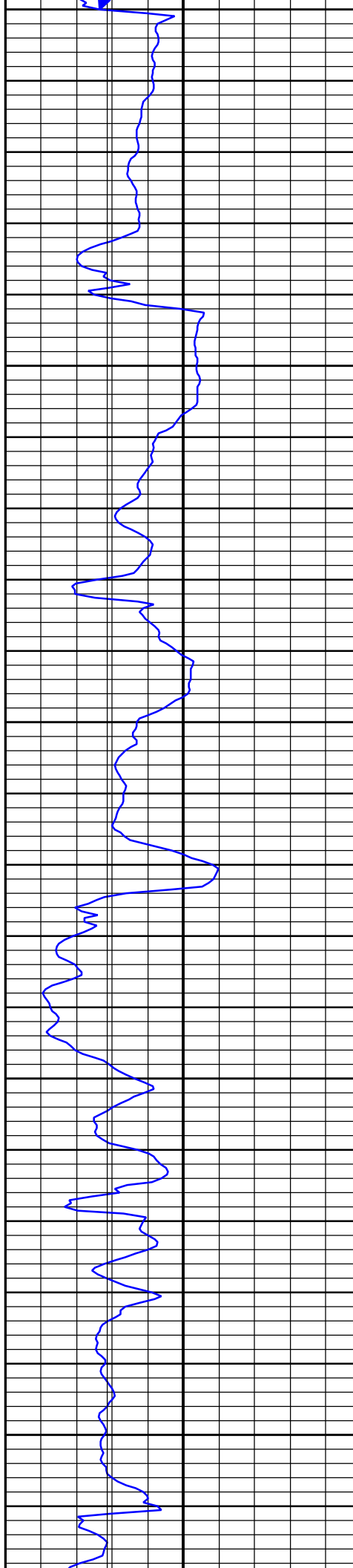
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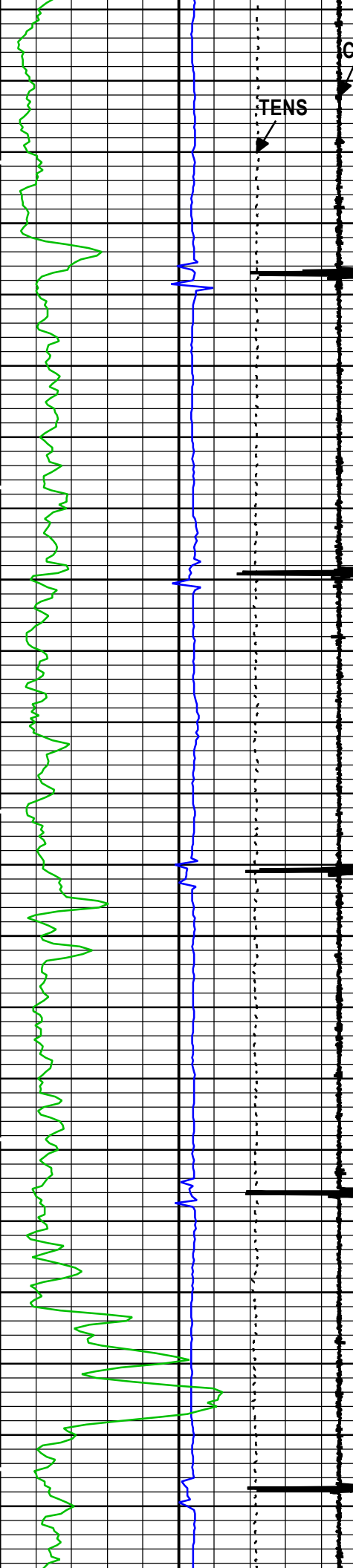




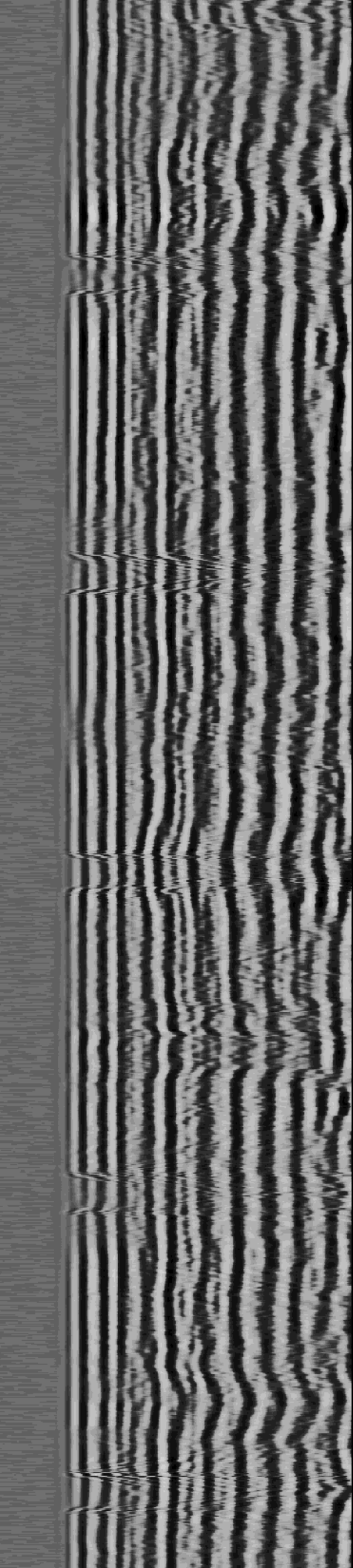
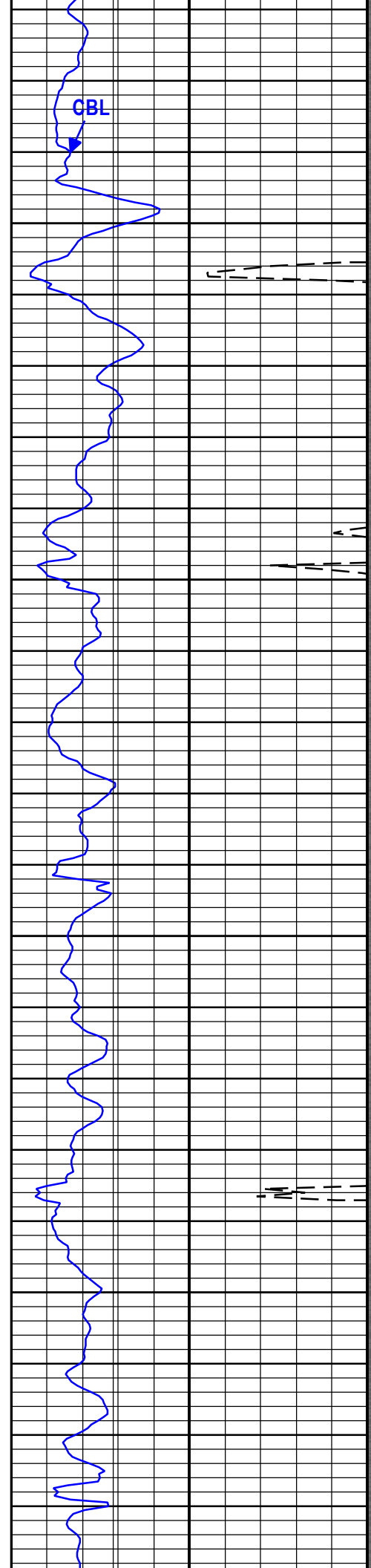


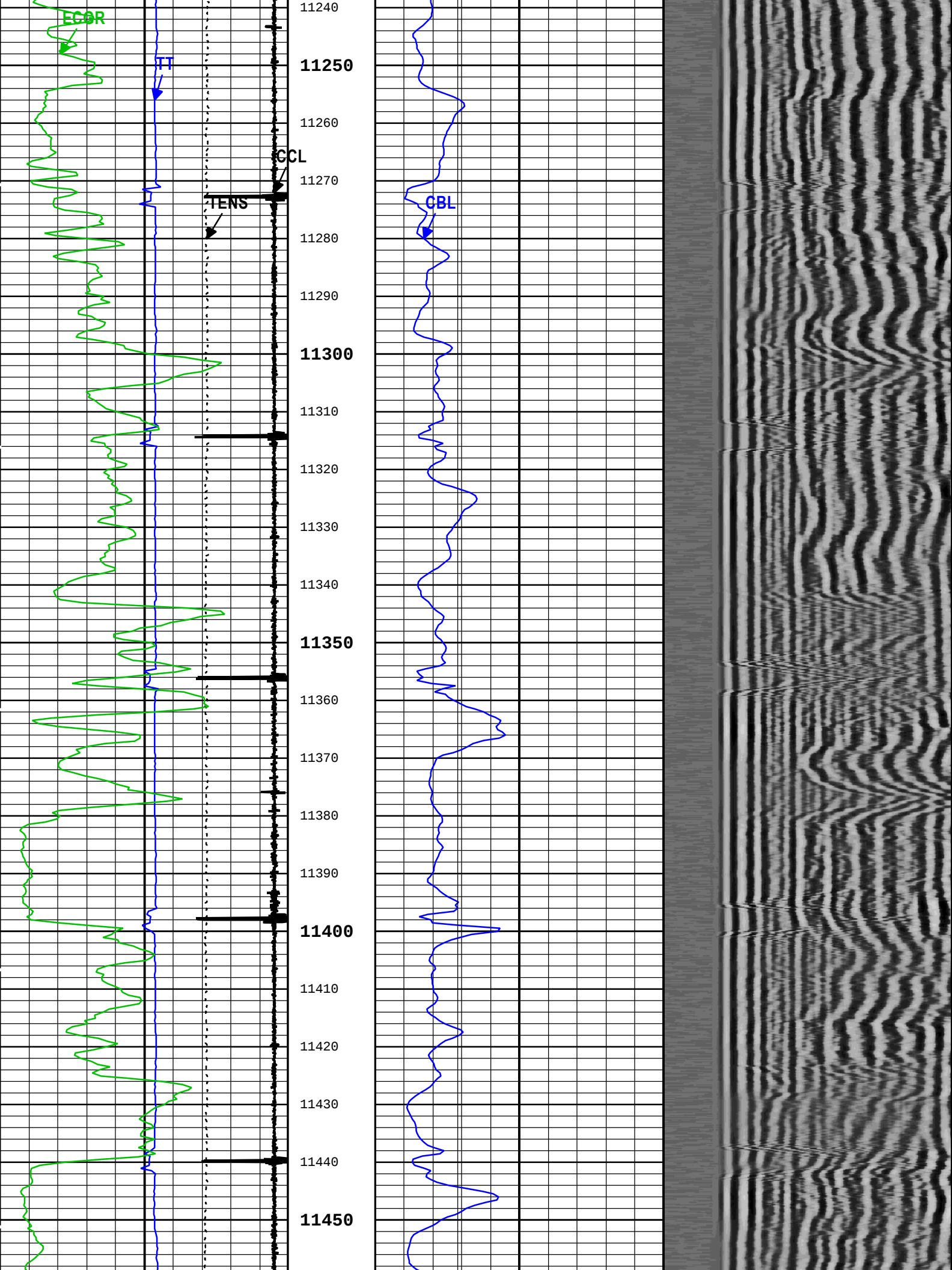
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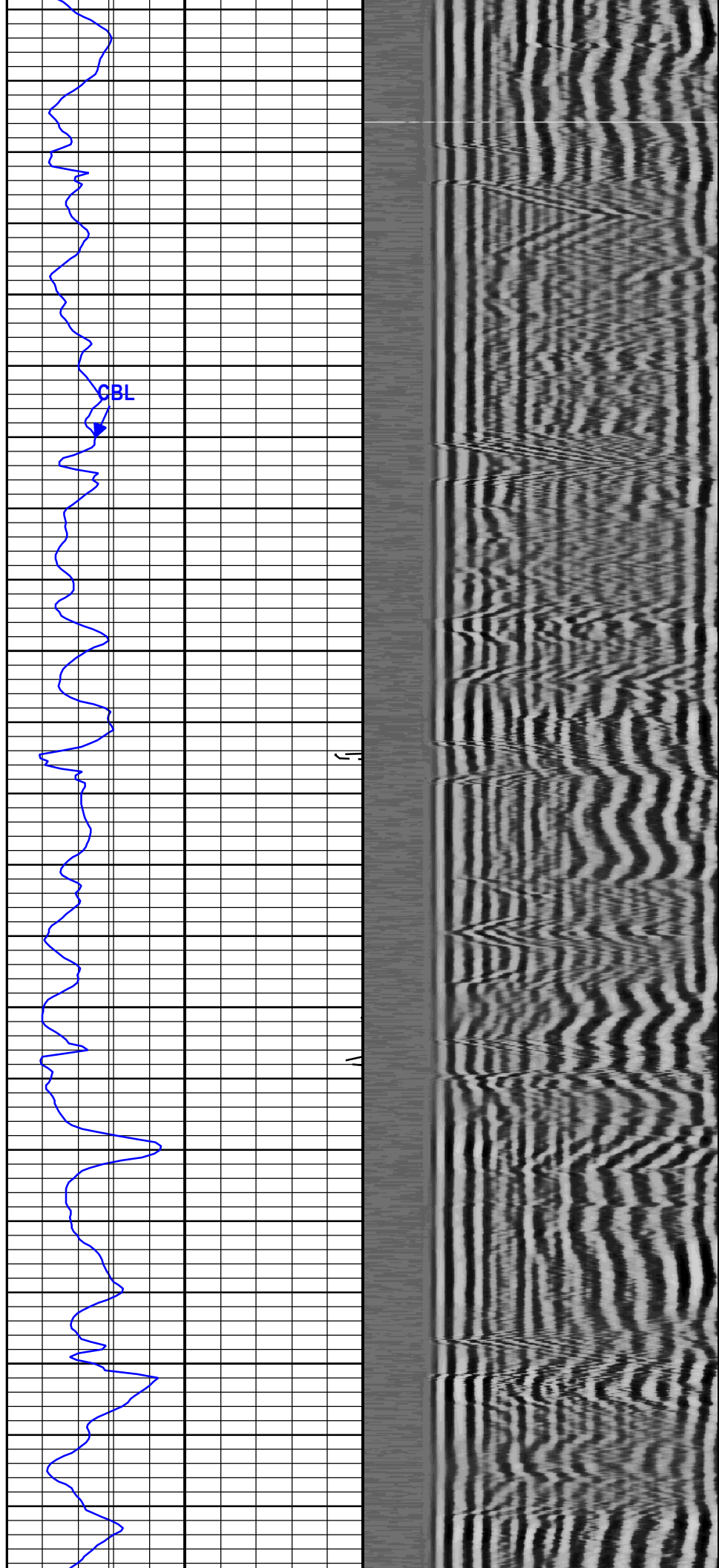
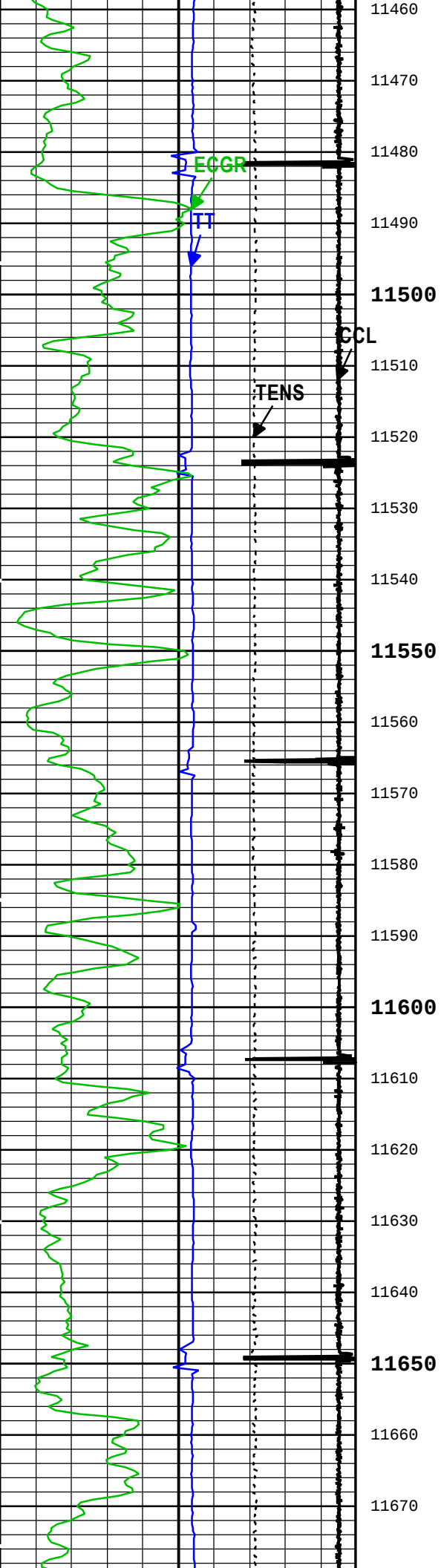


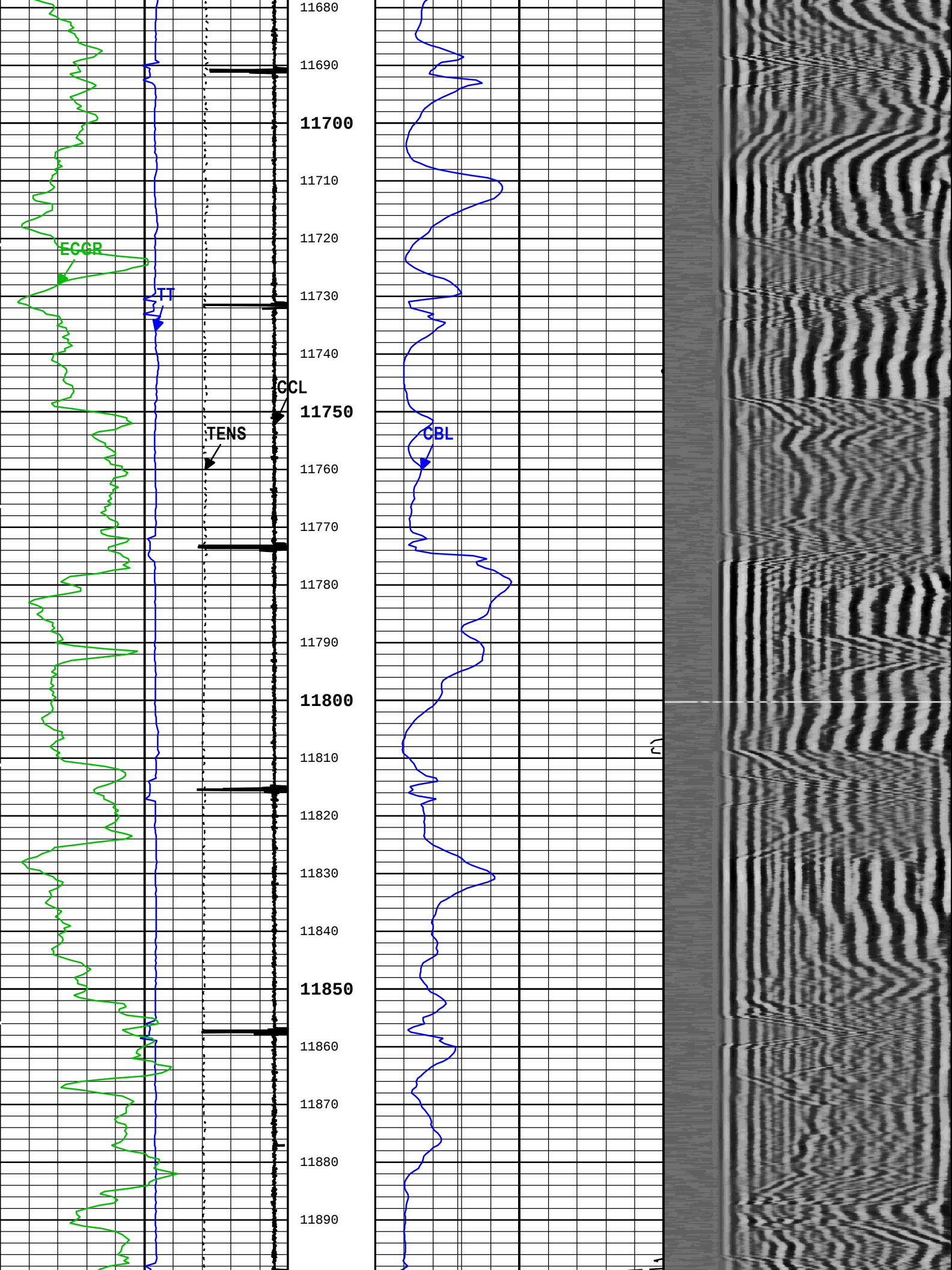


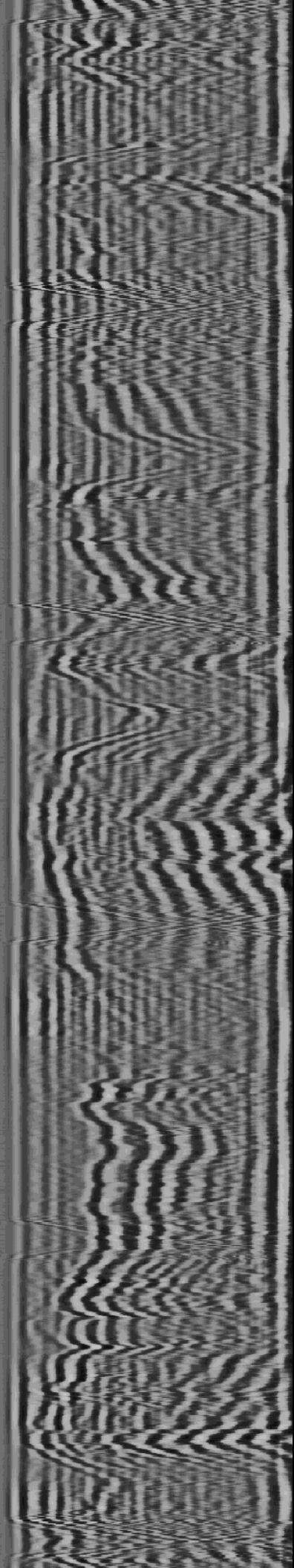
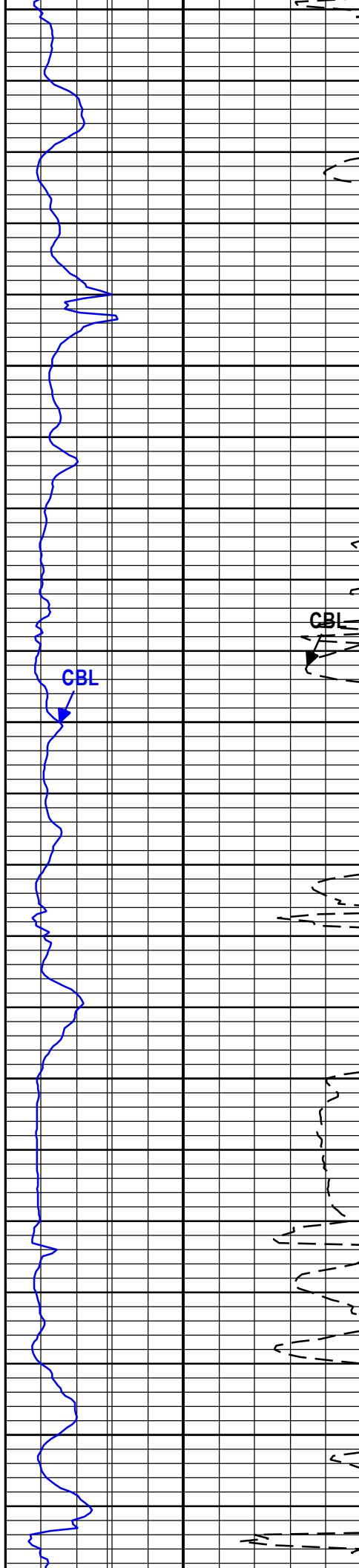
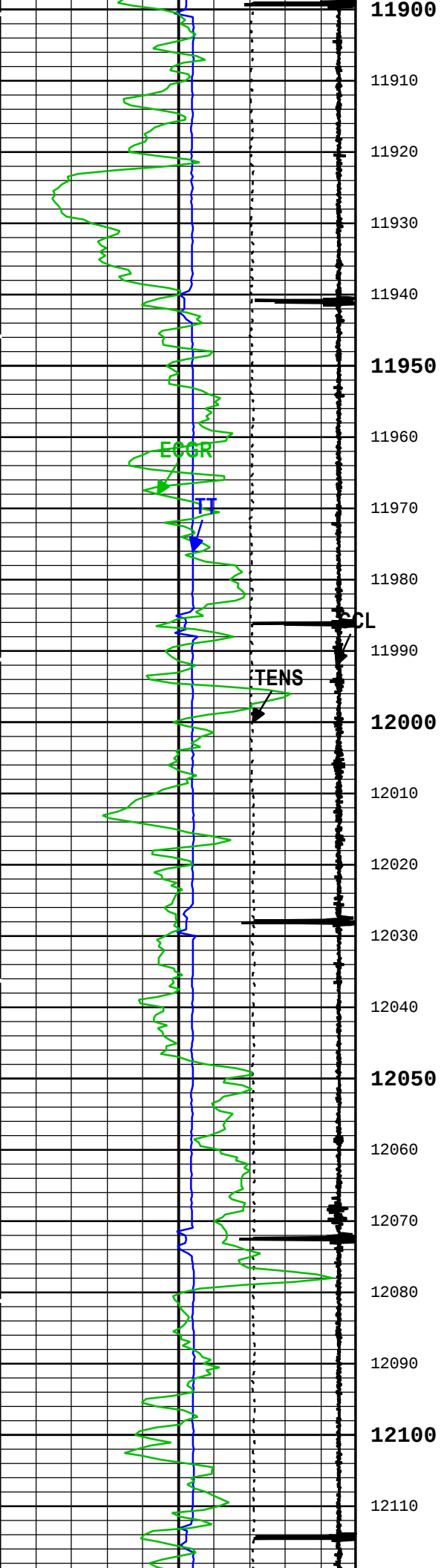
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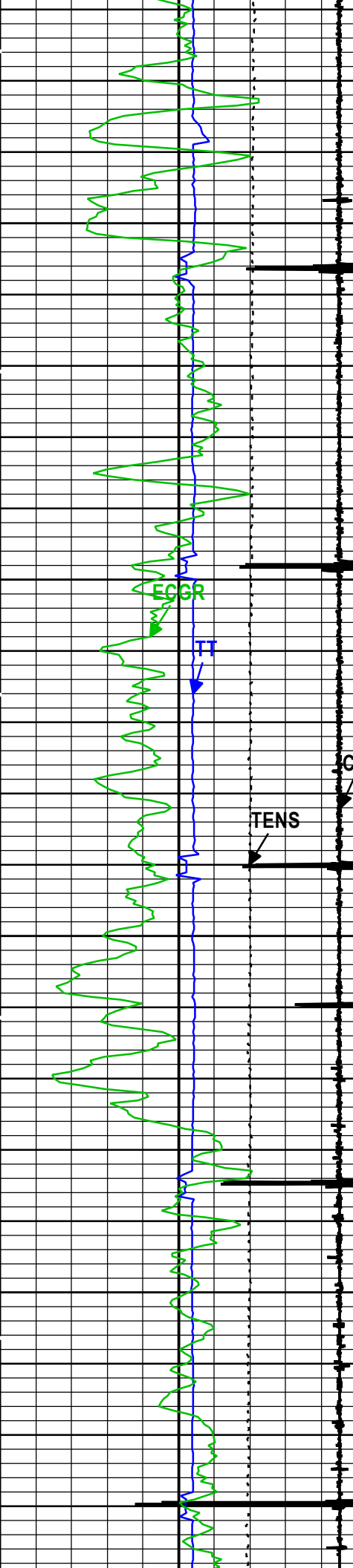




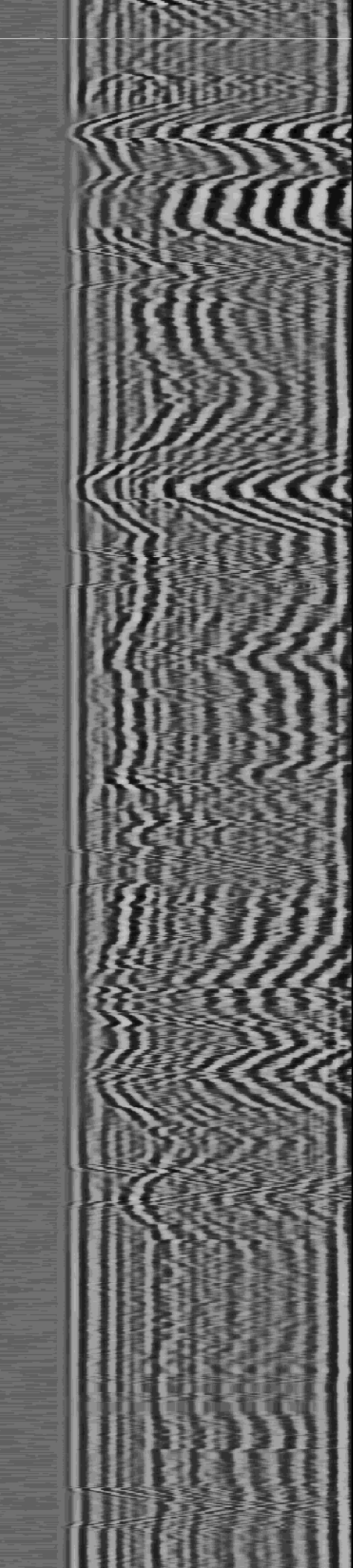
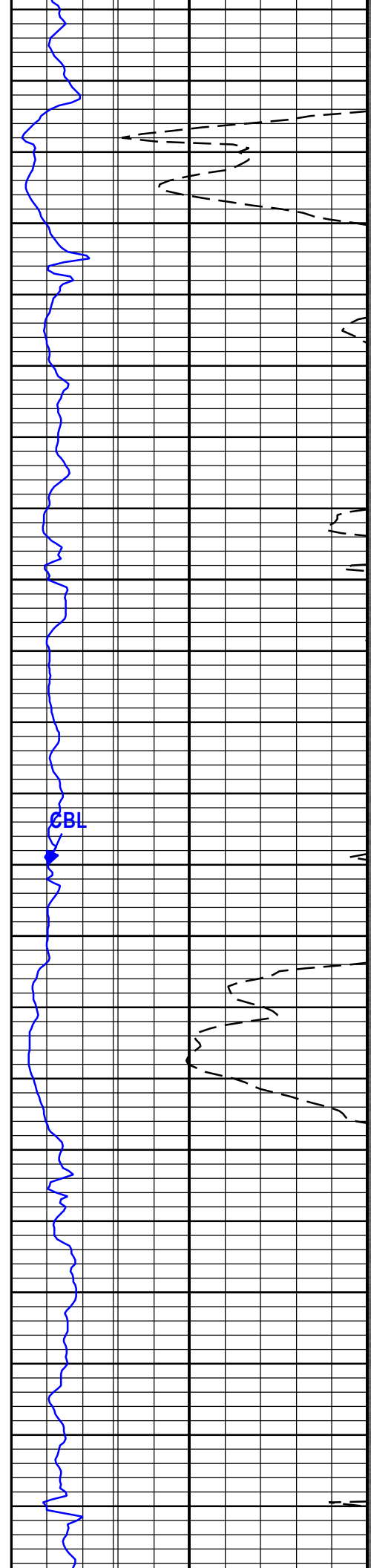


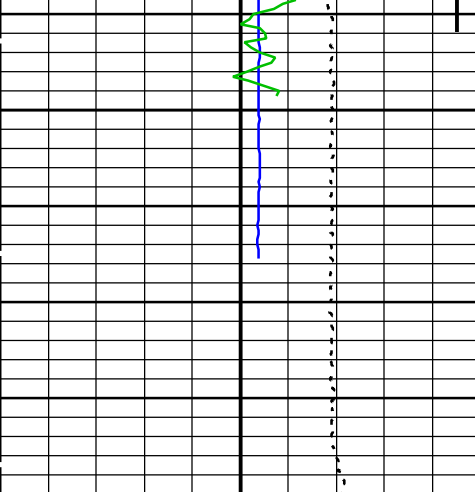






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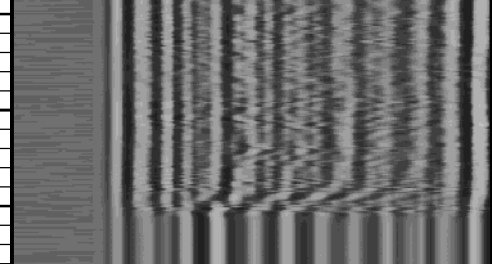
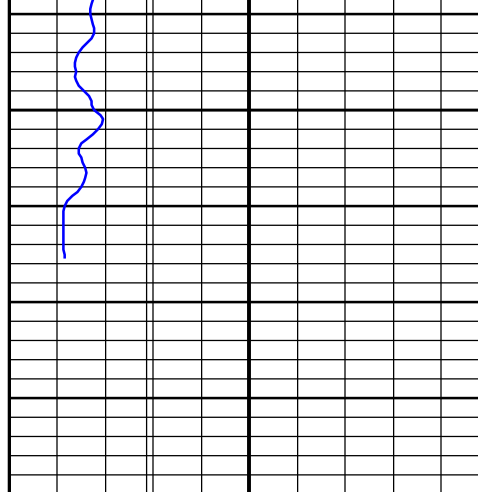
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Cable Tension (TENS)		
10000	lbf	0
Casing Collar Locator Amplitude (CCL) CAL-YA[1]		
-19		1
Transit Time for CBL (TT) DSLT-H[1]		
400	us	200
Gamma Ray (ECGR) SGT-N[1]		
0	gAPI	150

CBL Amplitude (CBL) DSLT-H[1]		
0	mV	100
CBL Amplitude (CBL) DSLT-H[1]		
0	mV	10
Good Bond (GOBO)		
0	mV	10
GoodBond From ACBL to GOBO		

TIME_1900 - Time Marked every 60.00 (s)

Description: CBL_VDL Format: Log (CH CBL VDL 5) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Mar-2017 15:25:01

Channel Processing Parameters

Two A: Parameters

Parameter	Description	Tool	Value	Unit
ISSBAR	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CBLG	CBL Gate Width	DSL-T-H	52	us
CBLO	Casing Bottom (Logger)	WLSESSION	12534	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	DSL-T-H	Depth Zoned	mV
CCL_MULTIPLIER	Casing Collar Locator Multiplier	CAL-YA	1	
CDEN	Cement Density	SGT-N	2	g/cm3
CDEN	Cement Density	USIT-E	1.23	g/cm3
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Ultra Light Cement	
DETE	Delta-T Detection	DSL-T-H	E1	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
FSOD	USIT IBC Fluid Slowness Fits Casing Outer Diameter	USIT-E	0_OFF	
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Theoretical	
IMAR	Image Rotation	USIT-E	Off	
MAHTR	Manual High Threshold Reference for first arrival detection	DSL-T-H	120	
MCI	Minimum Cemented Interval for Isolation	DSL-T-H	Depth Zoned	ft
MINUTE	Minimum High Threshold Reference for first arrival detection	DSL-T-H	120	

MINPTR	Minimum High Threshold Reference for first arrival detection	DSLT-H	100	
MSA	Minimum Sonic Amplitude	DSLT-H	Depth Zoned	mV
NMSG	Near Minimum Sliding Gate	DSLT-H	273	us
NMXG	Near Maximum Sliding Gate	DSLT-H	830	us
U-USIT_OCDI	Outer Casing Diameter	USIT-E	0	in
U-USIT_OCSH	Outer Casing Shoe	USIT-E	0	ft
U-USIT_OCWE	Outer Casing Weight	USIT-E	0	lbm/ft
SGAD	Sliding Gate Status	DSLT-H	Off	
SGDT	Sliding Gate Delta-T	DSLT-H	57	us/ft
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.85	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-25.37	dB/m
UFGDE	Fiberglass Density	USIT-E	1.95	g/cm3
UFGPS	Fiberglass Processing Selection	USIT-E	No	
UFGVL	Fiberglass Velocity	USIT-E	9678.48	ft/s
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	

Two ADepth Zoned Parameters				
Parameter	Value	Start (ft)	Stop (ft)	
BS	17.5	16	850	
BS	12.25	850	5420	
BS	8.75	5420	12390.33	
CBRA	0	8.5	16	
CBRA	62	16	12390.33	
MCI	0	8.5	16	
MCI	21.68	16	850	
MCI	19.62	850	5420	
MCI	10	5420	12390.33	
MSA	0	8.5	16	
MSA	1.33	16	12390.33	
All depth are actual.				

Tool Control Parameters	
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Two A: Parameters				
Parameter	Description	Tool	Value	Unit
MODE	DSLT Acquisition Mode	DSLT-H	CBL	
RATE	DSLT Firing Rate	DSLT-H	15 Hz	
DTFS	DSLT Telemetry Frame Size	DSLT-H	536	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	2700	ft/h
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	130	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	170	us
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	99	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	139	us
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	Time Zoned	ft
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	35.04	us
WINE	Window End Time	USIT-E	75.04	us

Two A

Repeat Analysis 5" = 100'

Software Version

Acquisition System	Version
Maxwell 2017	7.0.78557.3100
Application Patch	Wireline_NPD-PNX-2017CMZ_7.0.82859
	Wireline_Hotfix-DLIS-2017CMZ_7.0.80395
	Wireline_Hotfix-MAST-2017CMZ_7.0.78787
	Wireline_Hotfix-ASLT-QSLT-SSLT-2017CMZ_7.0.80854
	Wireline_NPD-SLIM-2017CMZ_7.0.82543

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Two A	Log[3]:Up	Up	11921.08 ft	12223.79 ft	19-Mar-2017 9:40:31 AM	19-Mar-2017 9:47:17 AM	ON	-0.57 ft	Yes
Two A	Log[5]:Up	Up	1930.37 ft	12391.76 ft	19-Mar-2017 9:53:15 AM	19-Mar-2017 2:05:46 PM	ON	1.33 ft	Yes

All depths are referenced to toolstring zero

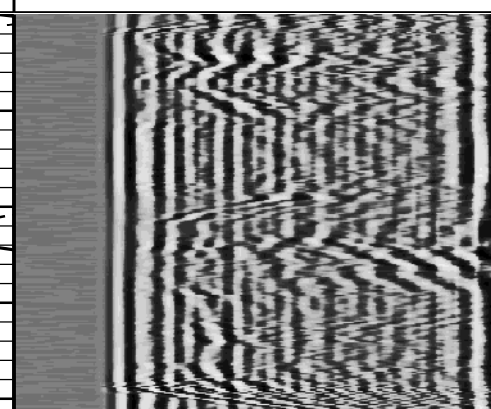
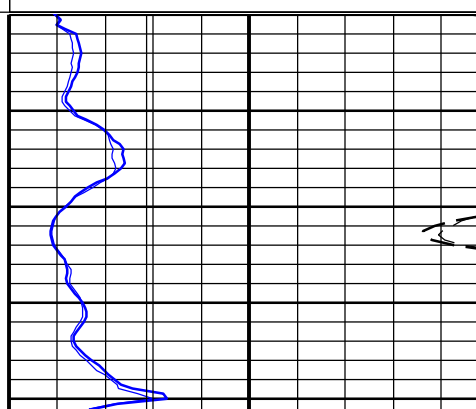
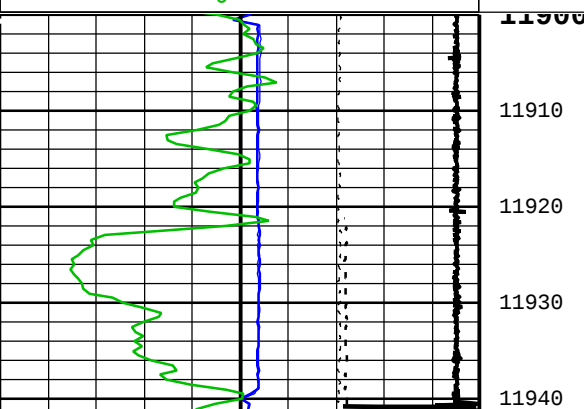
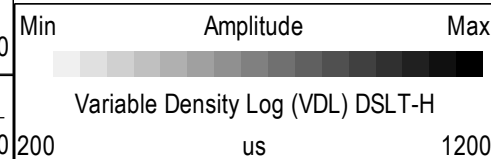
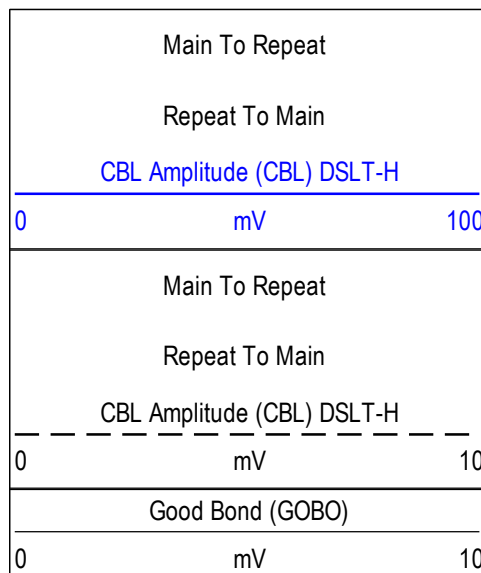
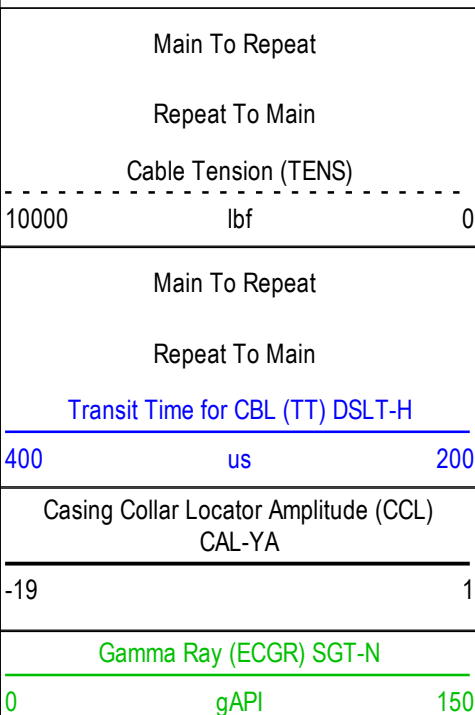
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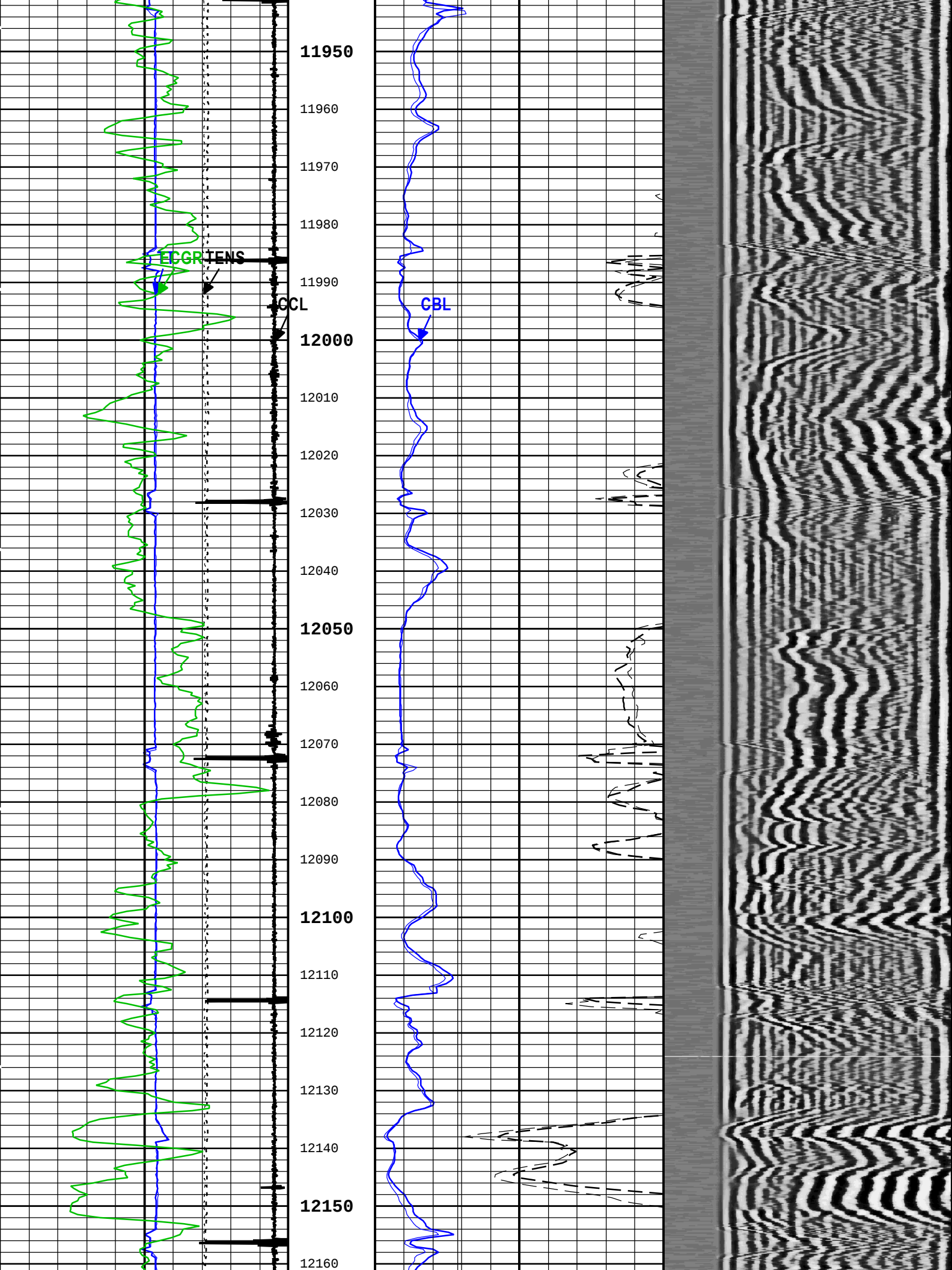
Company:Raz Oil and Gas, LLC Well:YO State SWD 1

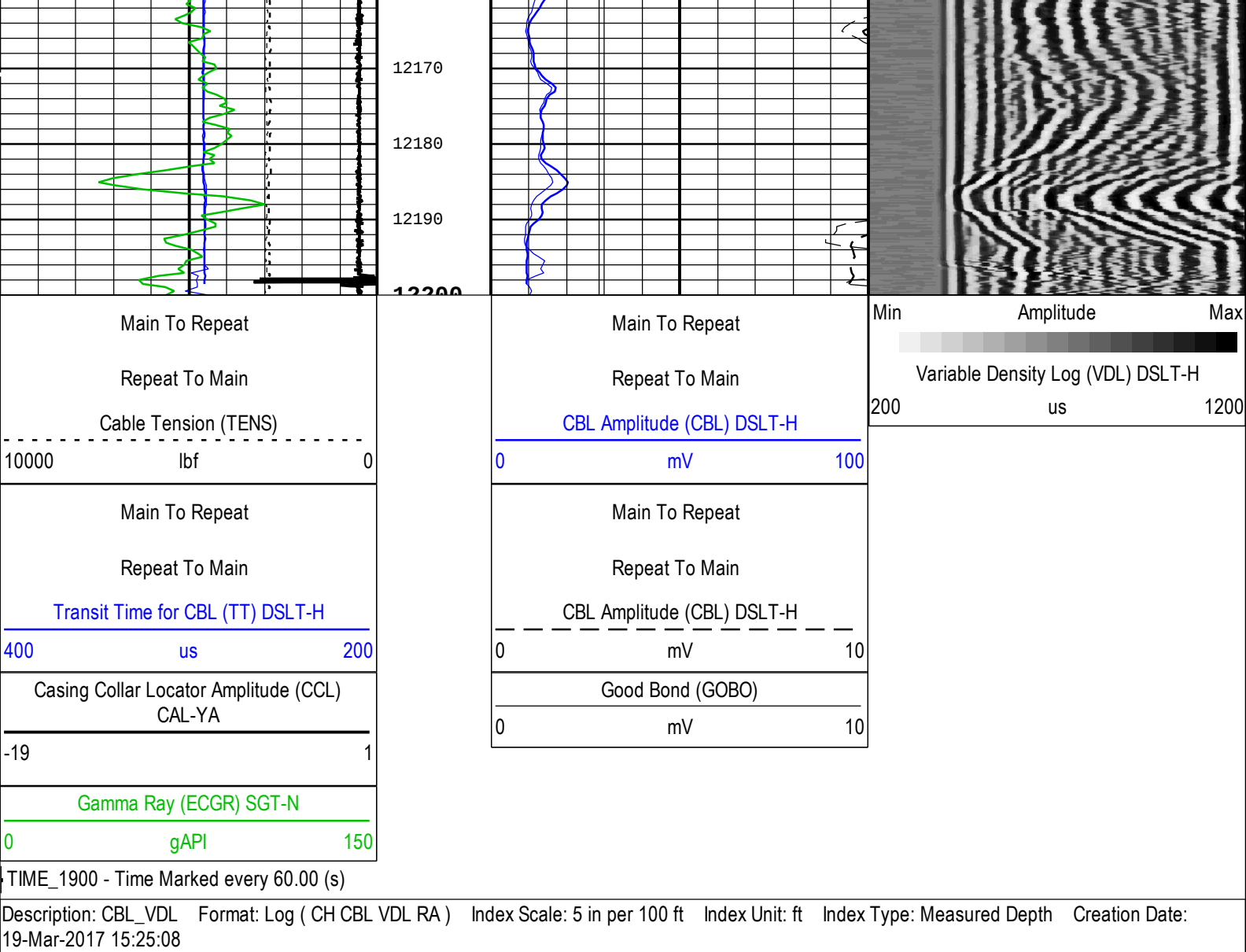
Two A: Log[5]:Up:S004

Description: CBL_VDL Format: Log (CH CBL VDL RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Mar-2017 15:25:08

TIME_1900 - Time Marked every 60.00 (s)







Channel Processing Parameters				
Two A: Parameters				
Parameter	Description	Tool	Value	Unit
ISSBAR	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	8.75	in
CBLG	CBL Gate Width	DSLTH	52	us
CBLO	Casing Bottom (Logger)	WLSESSION	12534	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	DSLTH	62	mV
CCL_MULTIPLIER	Casing Collar Locator Multiplier	CAL-YA	1	
CDEN	Cement Density	SGT-N	2	g/cm3
CDEN	Cement Density	USIT-E	1.23	g/cm3
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Ultra Light Cement	
DETE	Delta-T Detection	DSLTH	E1	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
FSOD	USIT IBC Fluid Slowness Fits Casing Outer Diameter	USIT-E	0_OFF	
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Theoretical	

IBC_ZMOD_SLL	IBC Mud Impedance Selection	USIT-E	Theoretical	
IMAR	Image Rotation	USIT-E	Off	
MAHTR	Manual High Threshold Reference for first arrival detection	DSLT-H	120	
MCI	Minimum Cemented Interval for Isolation	DSLT-H	10	ft
MNHTR	Minimum High Threshold Reference for first arrival detection	DSLT-H	100	
MSA	Minimum Sonic Amplitude	DSLT-H	1.33	mV
NMSG	Near Minimum Sliding Gate	DSLT-H	273	us
NMXG	Near Maximum Sliding Gate	DSLT-H	830	us
U-USIT_OCDI	Outer Casing Diameter	USIT-E	0	in
U-USIT_OCSH	Outer Casing Shoe	USIT-E	0	ft
U-USIT_OCWE	Outer Casing Weight	USIT-E	0	lbm/ft
SGAD	Sliding Gate Status	DSLT-H	Off	
SGDT	Sliding Gate Delta-T	DSLT-H	57	us/ft
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.85	Mrayl
U-USIT_UFAO	SIT Flexural Attenuation Offset	USIT-E	-25.37	dB/m
UFGDE	Fiberglass Density	USIT-E	1.95	g/cm3
UFGPS	Fiberglass Processing Selection	USIT-E	No	
UFGVL	Fiberglass Velocity	USIT-E	9678.48	ft/s
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	

Tool Control Parameters

Two A: Parameters

Parameter	Description	Tool	Value	Unit
MODE	DSLT Acquisition Mode	DSLT-H	CBL	
RATE	DSLT Firing Rate	DSLT-H	15 Hz	
DTFS	DSLT Telemetry Frame Size	DSLT-H	536	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	2700	ft/h
U-USIT_UFWB	Far Receiver Window Begin Time	USIT-E	130	us
U-USIT_UFWE	Far Receiver Window End Time	USIT-E	170	us
ULOG	Logging Objective	USIT-E	MEASUREMENT	
UMFR	Modulation Frequency	USIT-E	333333	Hz
U-USIT_UNWB	Near Receiver Window Begin Time	USIT-E	99	us
U-USIT_UNWE	Near Receiver Window End Time	USIT-E	139	us
UPAT	USIT Emission Pattern	USIT-E	Pattern 375 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in LF	
USIT_DEPTHLOG	Starting Depth Log for Ultrasonics	USIT-E	12390	ft
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	
WINB	Window Begin Time	USIT-E	35.04	us
WINE	Window End Time	USIT-E	75.04	us

Company:	Raz Oil and Gas, LLC	Schlumberger
Well:	YO State SWD 1	
Field:	Osudo South Morrow	
County:	Lea	
State:	New Mexico	

Cement Bond Log

