



Company: CHESAPEAKE OPERATING, INC.

Well: HEDIGER 24-9-67-1H

Field: WILD CAT

County: WELD State: COLORADO

County: WELD  
Field: WILD CAT  
Location: SW/4 & SW/4  
Well: HEDIGER 24-9-67-1H  
Company: CHESAPEAKE OPERATING, INC.

CBL / VDL MAP IMAGE  
GAMMA RAY  
CASING COLLAR LOG

SW/4 & SW/4

Elev.: K.B. 14.00 ft  
G.L.  
D.F.

Permanent Datum: \_\_\_\_\_  
Log Measured From: KELLY BUSHING  
Drilling Measured From: KELLY BUSHING

GROUND LEVEL  
Elev.: 0.00 ft  
14.00 ft above Perm. Datum

API Serial No. \_\_\_\_\_  
Section 24  
Township 9N  
Range 67W

PVT DATA				Run 1	Run 2	Run 3
Oil Density						
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 8-Dec-2011

Run Number 1

Depth Driller

Schlumberger Depth 7470 ft

Bottom Log Interval 7462 ft

Top Log Interval 0 ft

Casing Fluid Type WATER

Salinity

Density 8.4 lbm/gal

Fluid Level

BIT/CASING/TUBING STRING

Bit Size 7.875 in

From

To

Casing/Tubing Size 5.500 in

Weight 17 lbm/ft

Grade

From

To

Maximum Recorded Temperatures 205 degF

Logger On Bottom 8-Dec-2011 14:00

Unit Number 354 FORT MORGAN

Recorded By C MARCH

Witnessed By BRIAN BROWNARD

Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Fluid Type				
Salinity				
Density				
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size				
From				
To				
Casing/Tubing Size				
Weight				
Grade				
From				
To				
Maximum Recorded Temperatures				
Logger On Bottom				
Unit Number				
Recorded By				
Witnessed By				

## DEPTH SUMMARY LISTING

Date Created: 8-DEC-2011 14:50:50

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-25ZT
Serial Number:	4990	Serial Number:	1105	Serial Number:	354
Calibration Date:	28-JUL-2011	Calibration Date:	08-NOV-201	Length:	17500 FT
Calibrator Serial Number:	1	Calibrator Serial Number:	100513	Conveyance Method:	Wireline
Calibration Cable Type:	1-25P	Number of Calibration Points:	0	Rig Type:	LAND
Wheel Correction 1:	-2				
Wheel Correction 2:	-4				

## 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:	
Tool Zero Check At Surface:	

### Depth Control Remarks

1. IDW WHEELS PRIMARY DEPTH CONTROL
2. DRUM COUNTER 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	REMARKS: RUN NUMBER 2
NO CORRELATION LOG	
NO INFORMATION ON WELL	
INFORMATION PULLED OFF SIGHN	
AT EDGE OF LOCATION	

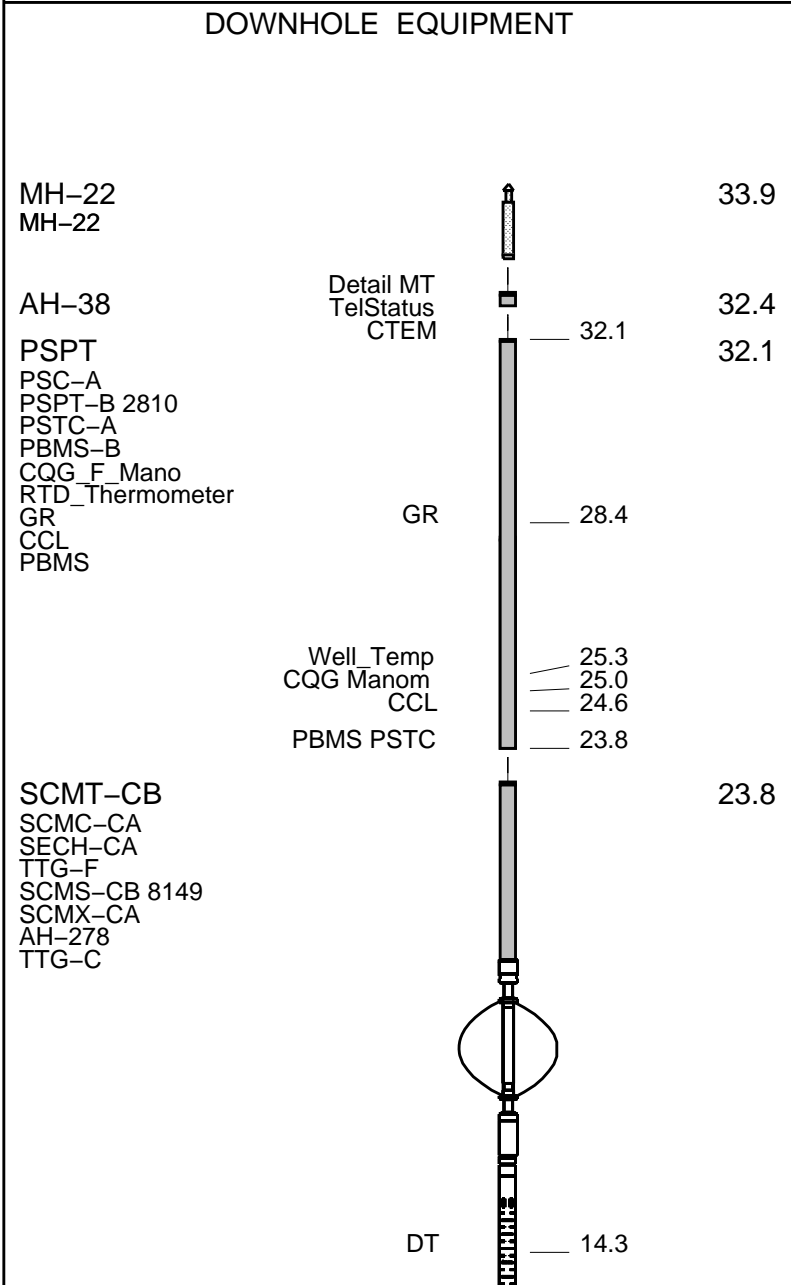
MAIN PASS RAN UNDER 0 PSI	
CREW: SCHRIVER	
THANK YOU	

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

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT

WITM-A  
PSC\_16MHZ



CBL5 DTSC — 12.8  
CBL3 — 11.8  
MAP — 11.3  
AUX — 10.3



HV  
Tension SCMT — 0.0  
TOOL ZERO

MAXIMUM STRING DIAMETER 1.69 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN FEET

Company: CHESAPEAKE OPERATING, INC.

Well: HEDIGER 24-9-67-11

## Output DLIS Files

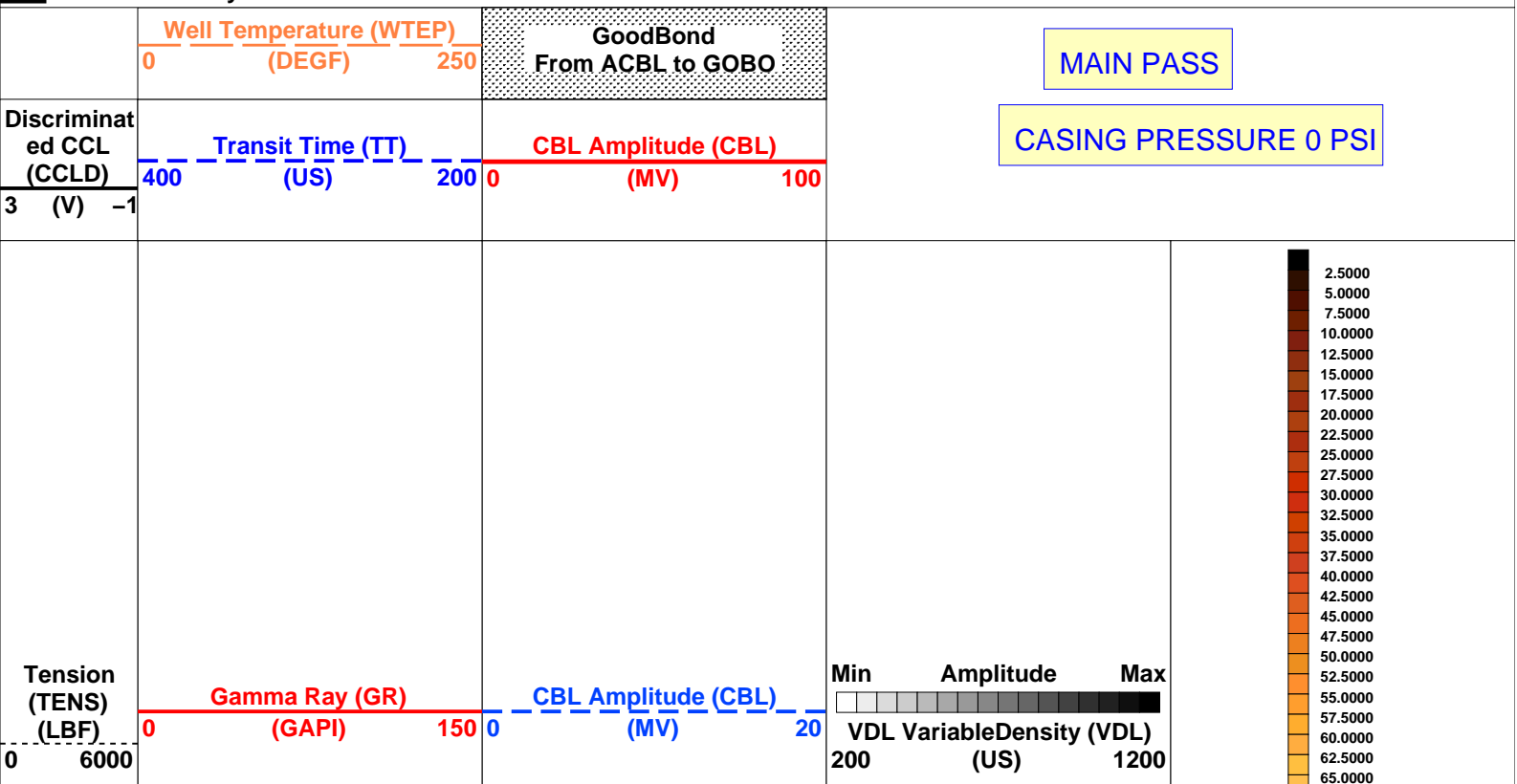
DEFAULT SCMT\_PSP\_003LUP FN:2 PRODUCER 08-Dec-2011 15:17 7509.5 FT 69.1 FT

## OP System Version: 19C0-187

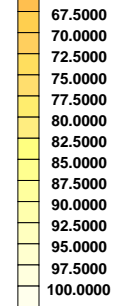
SCMT-CB 19C0-187 PSPT 19C0-187

### PIP SUMMARY

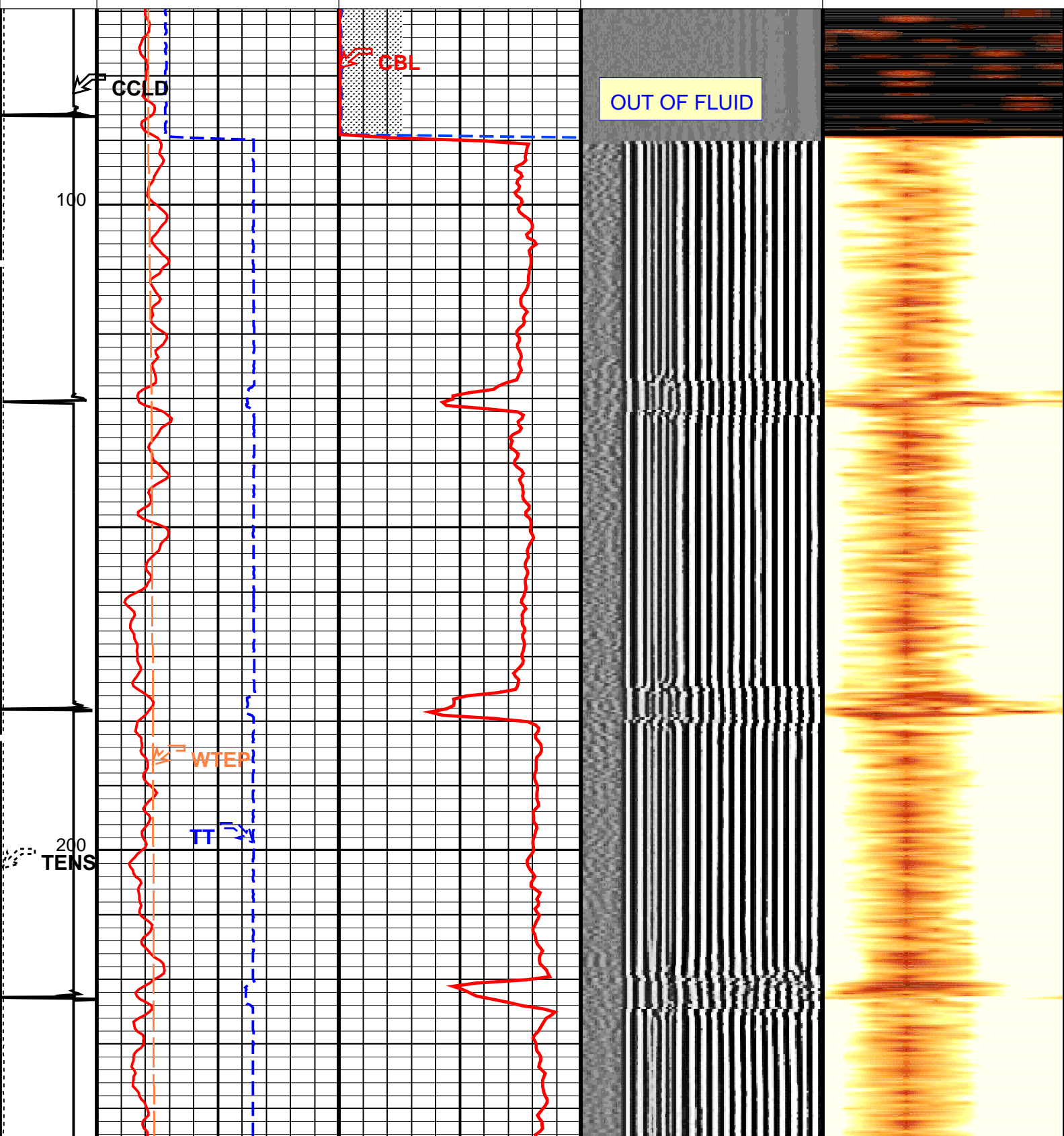
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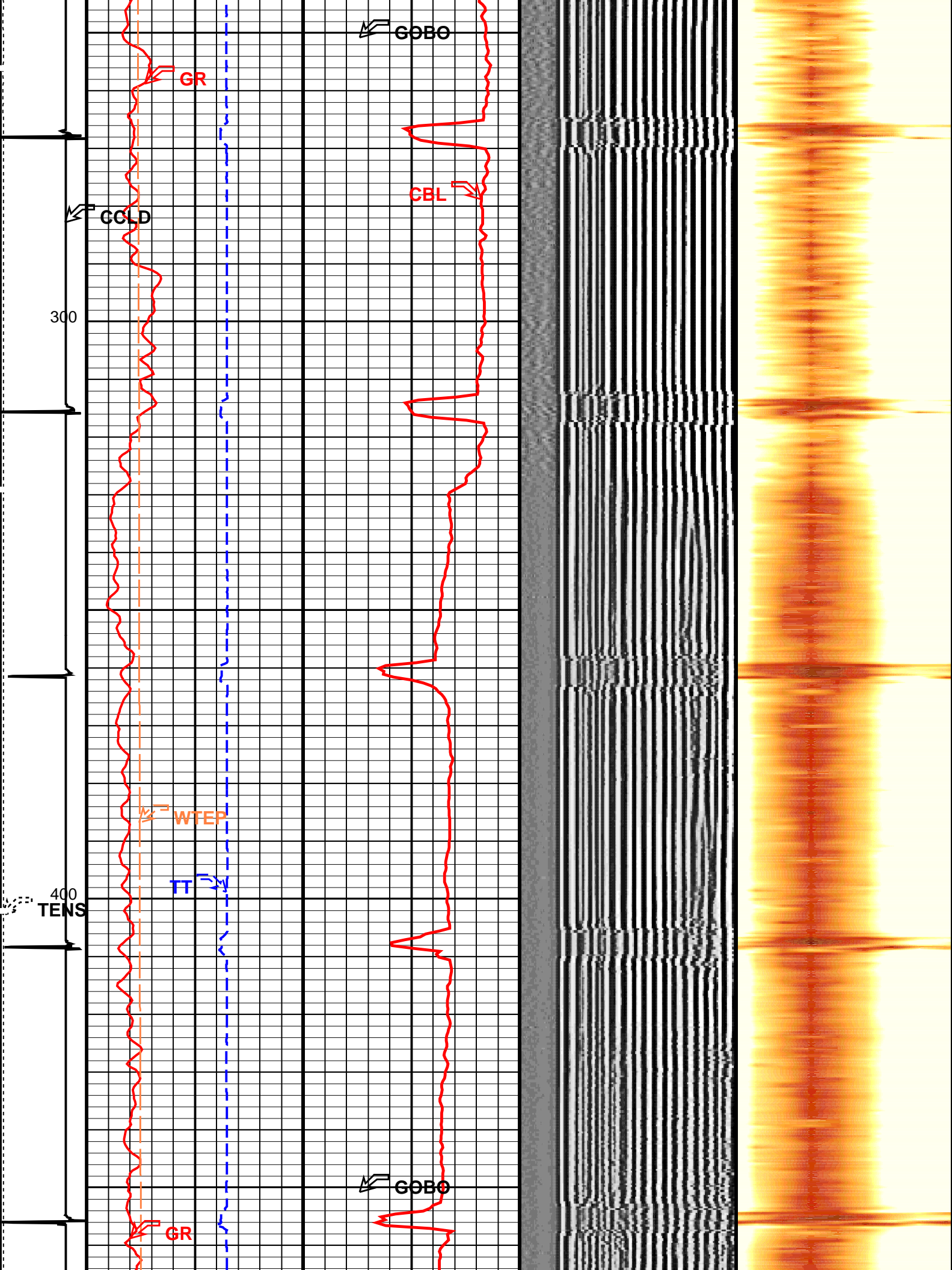


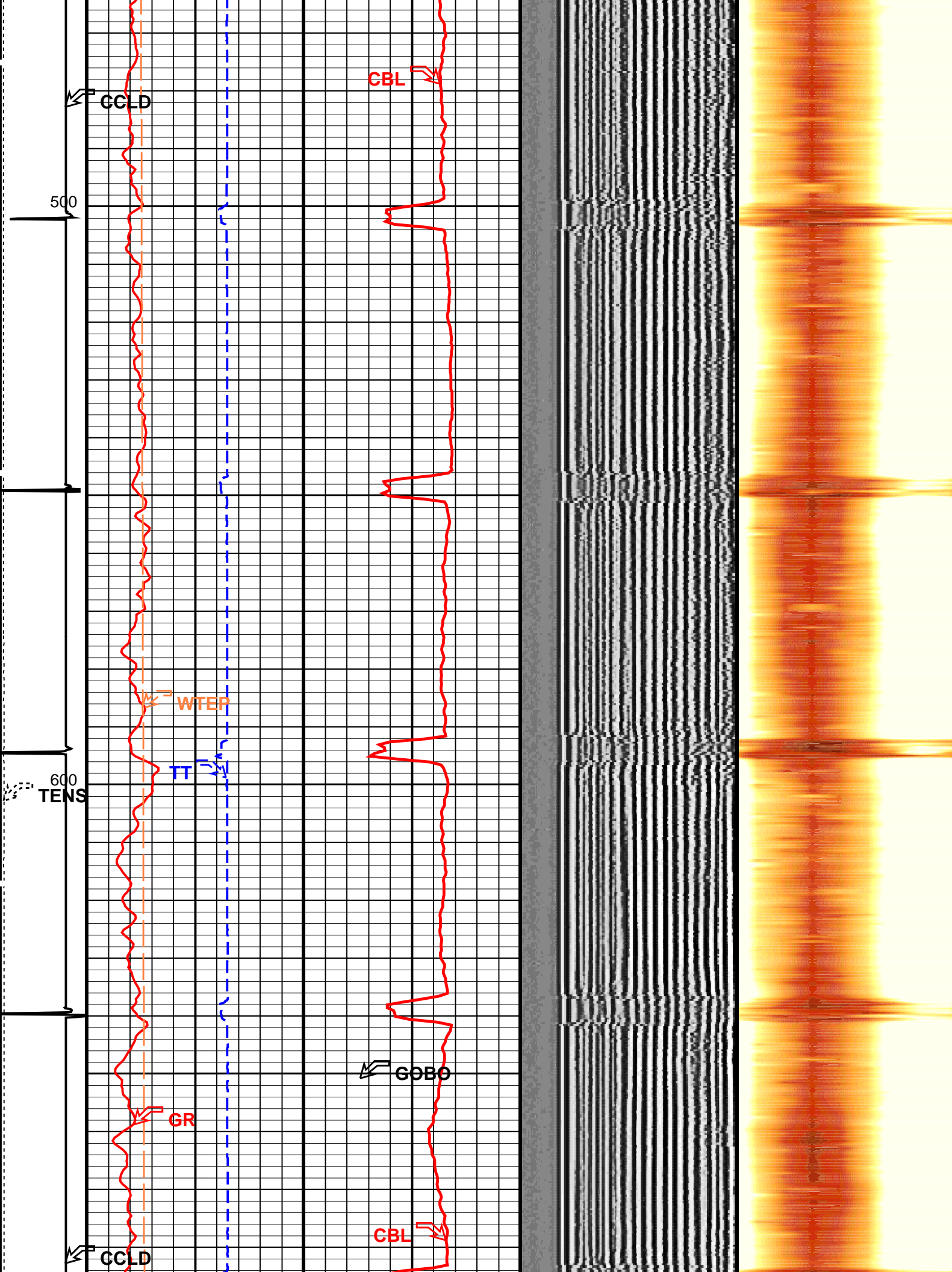




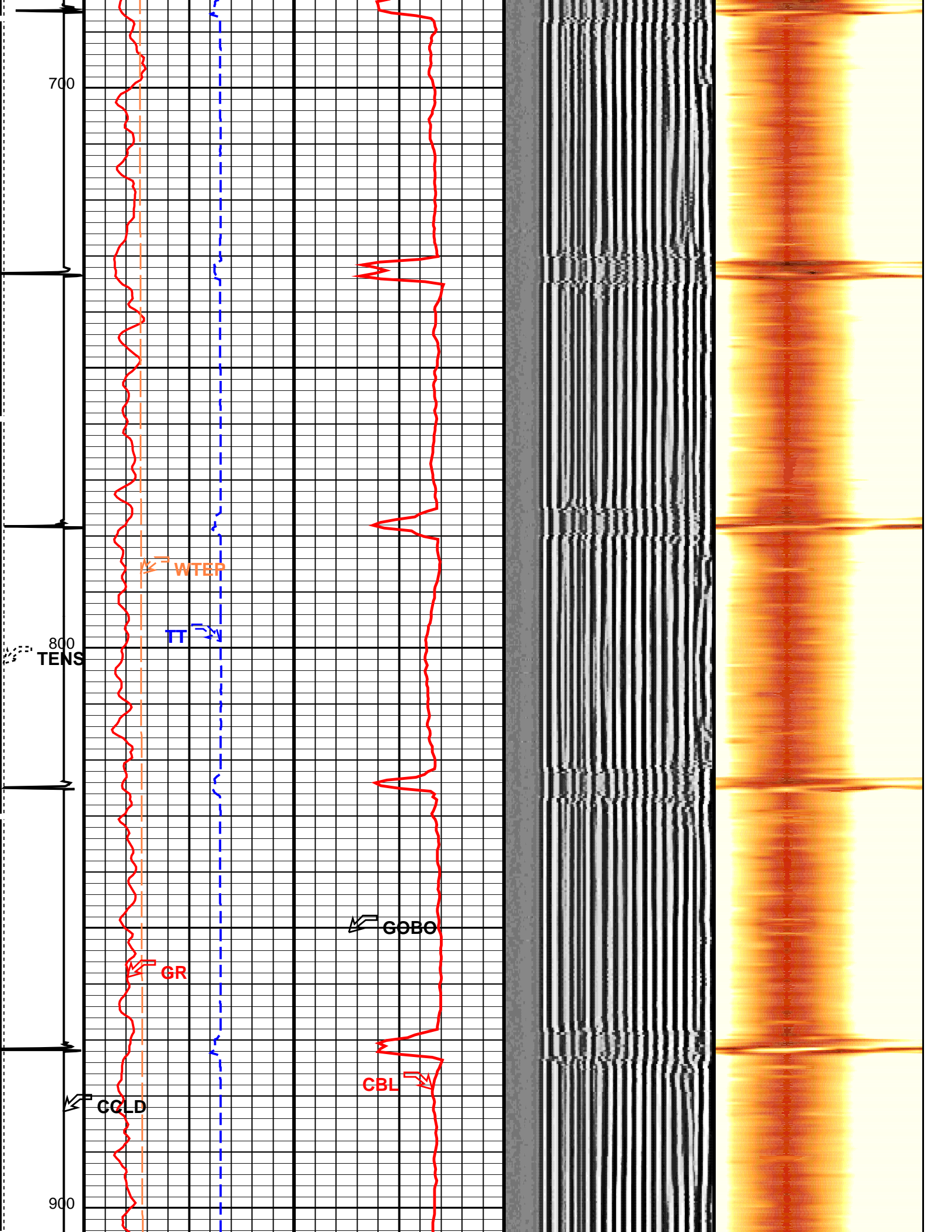
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(MPWF)  
(MV)

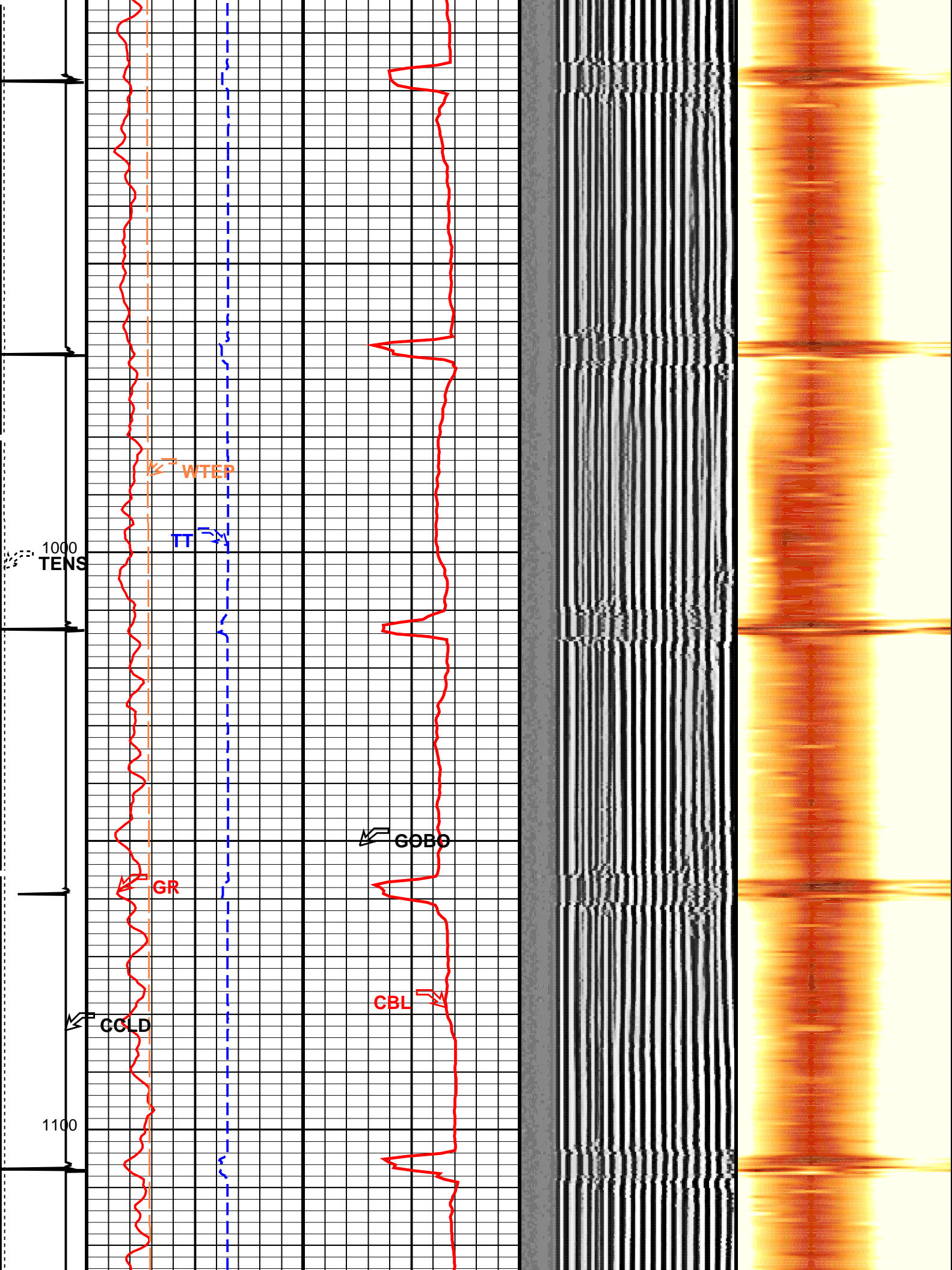




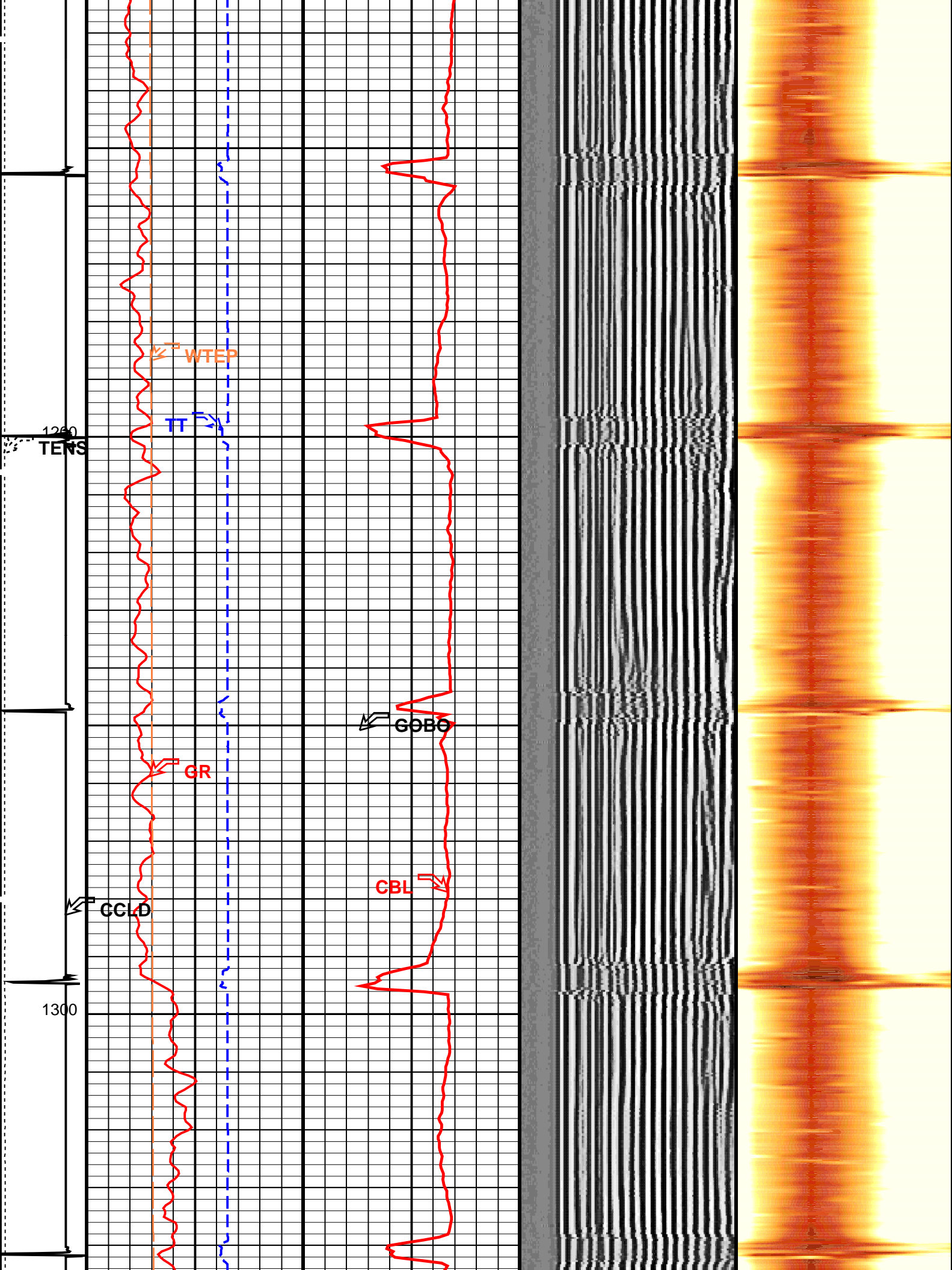


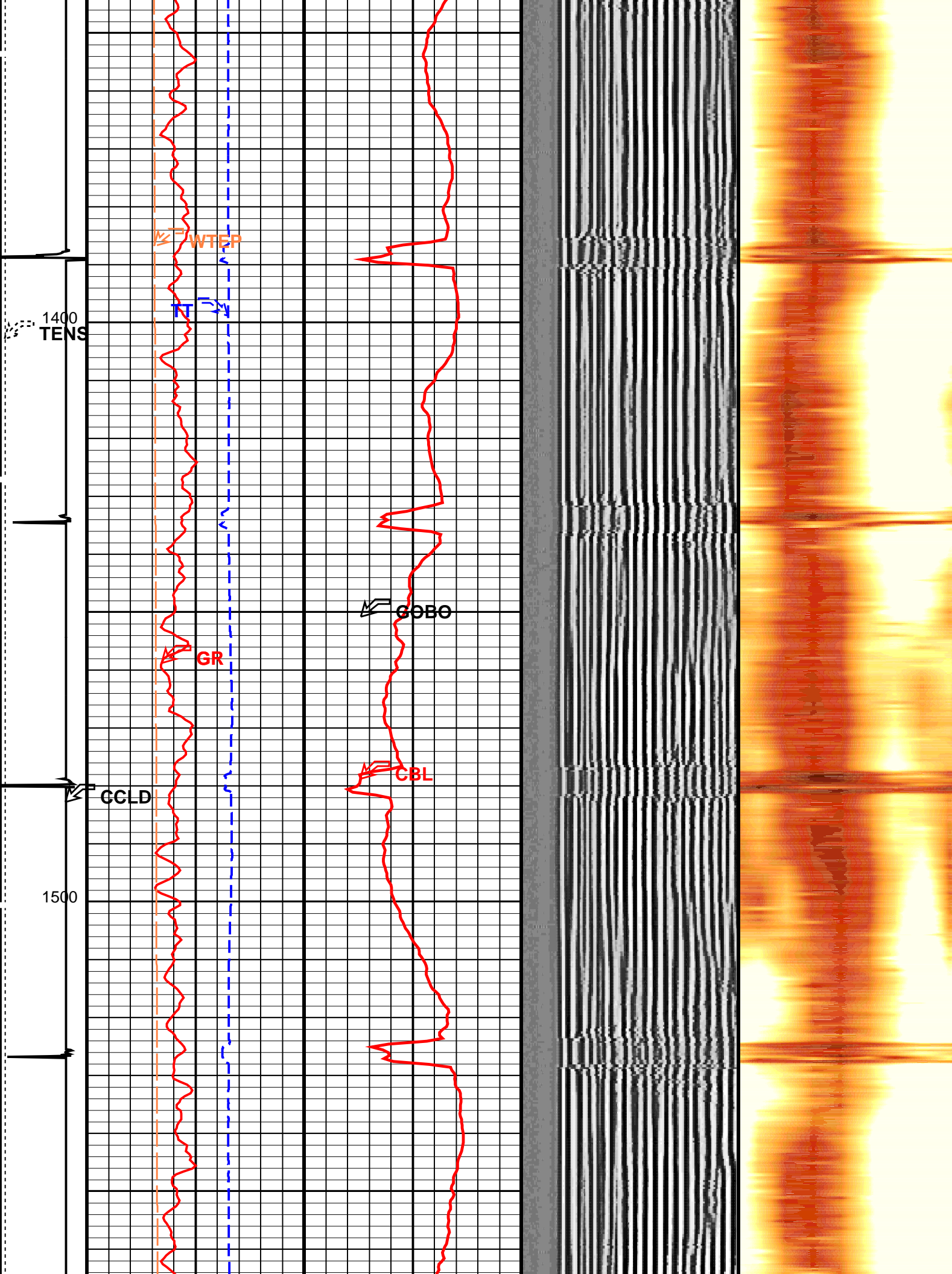




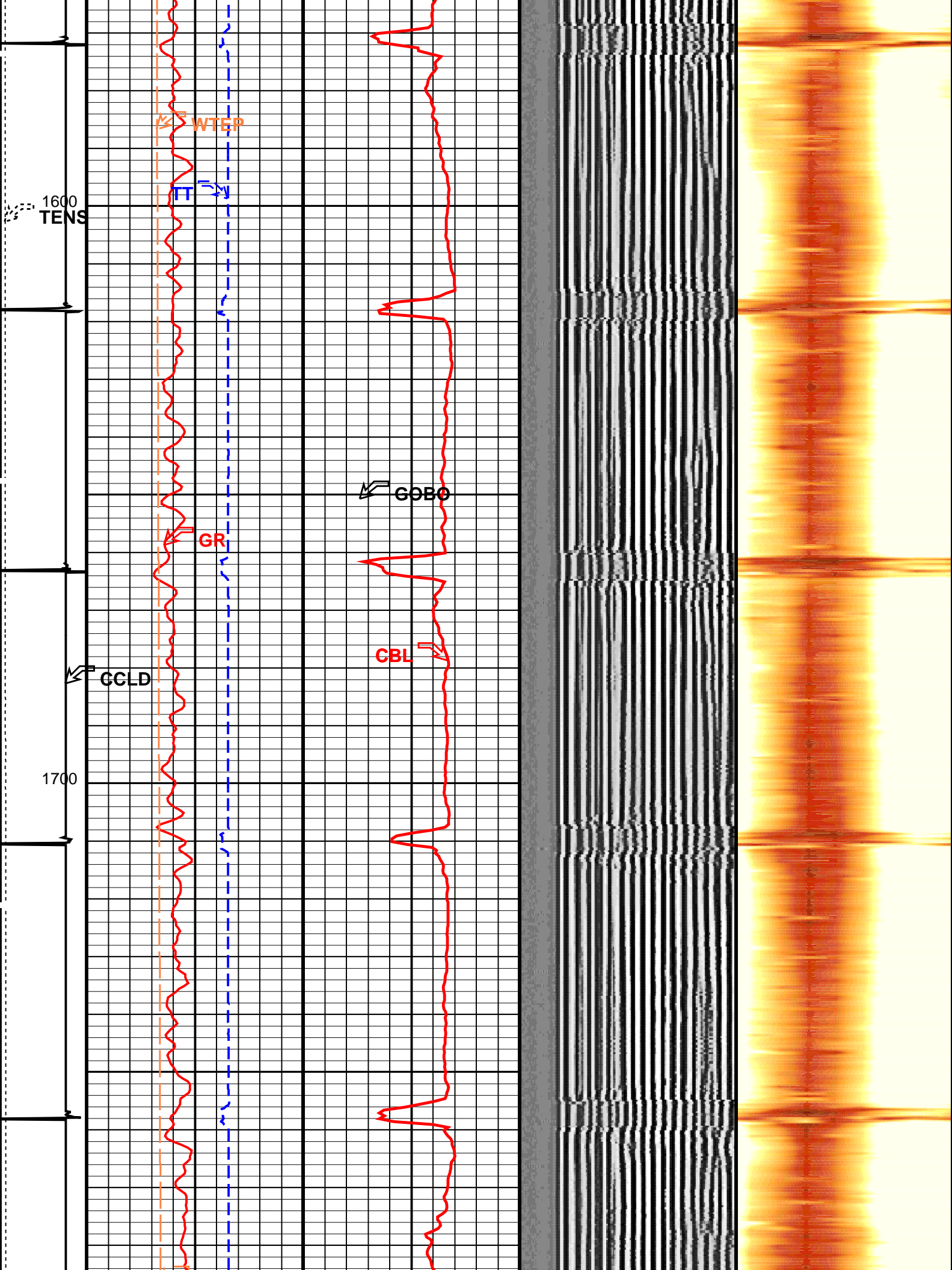




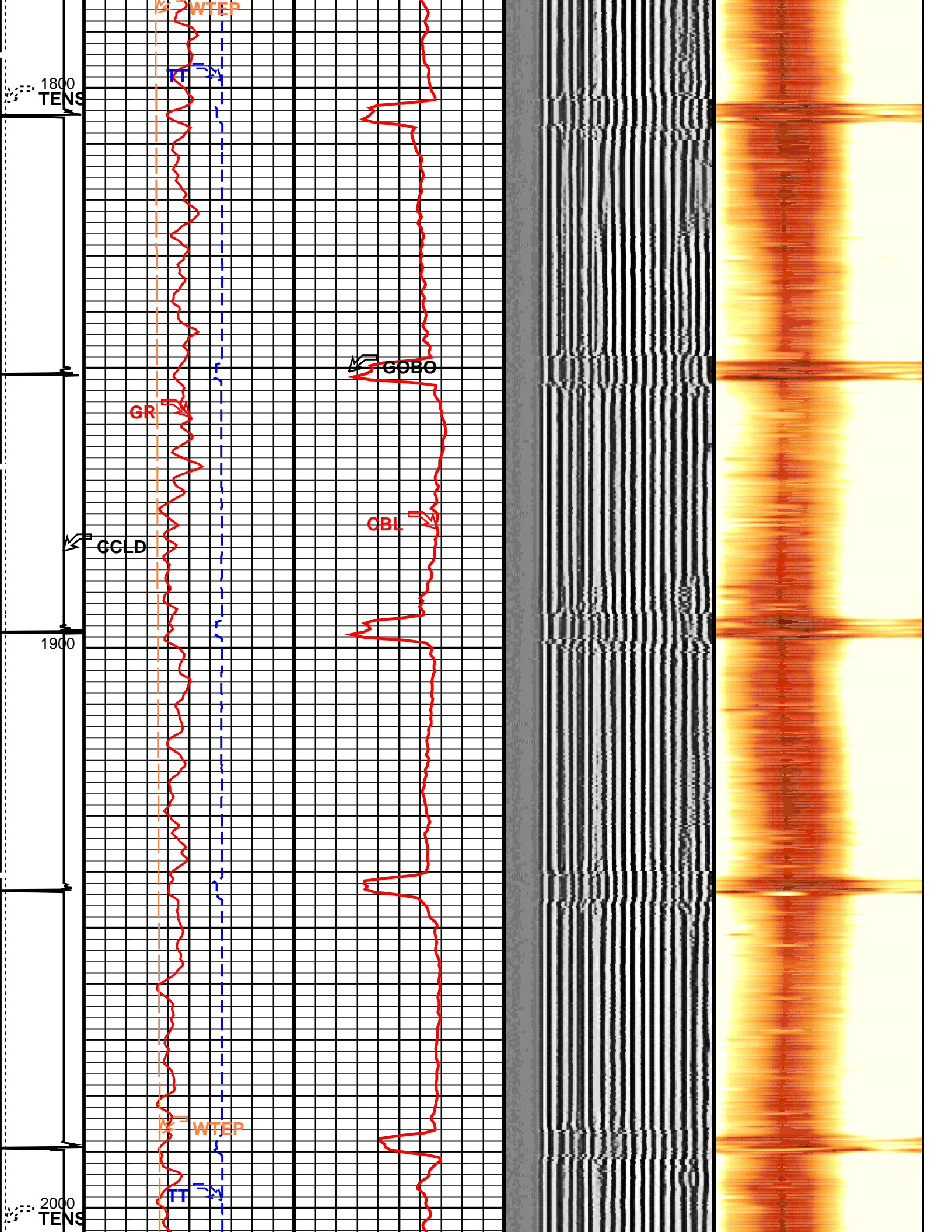


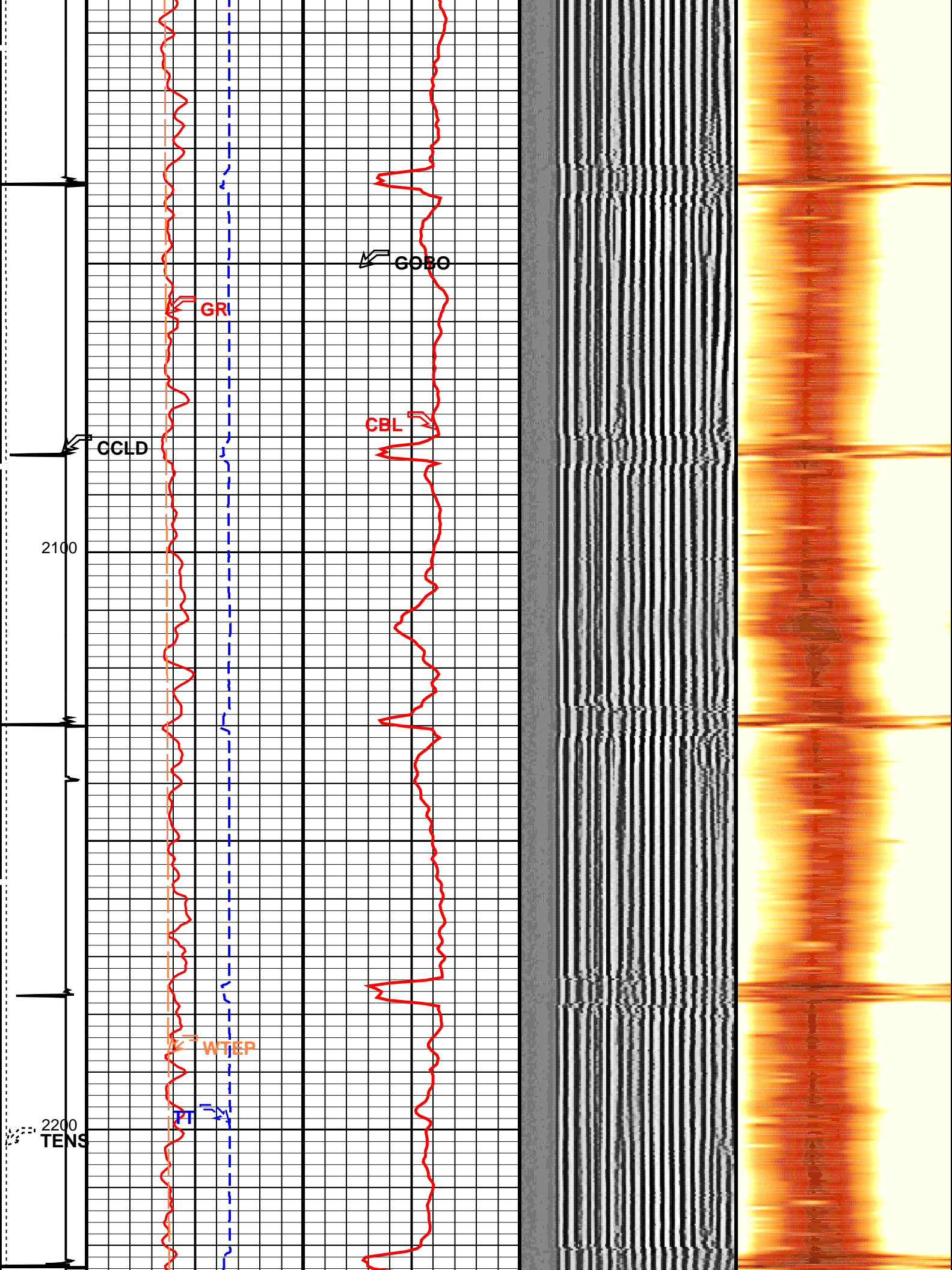




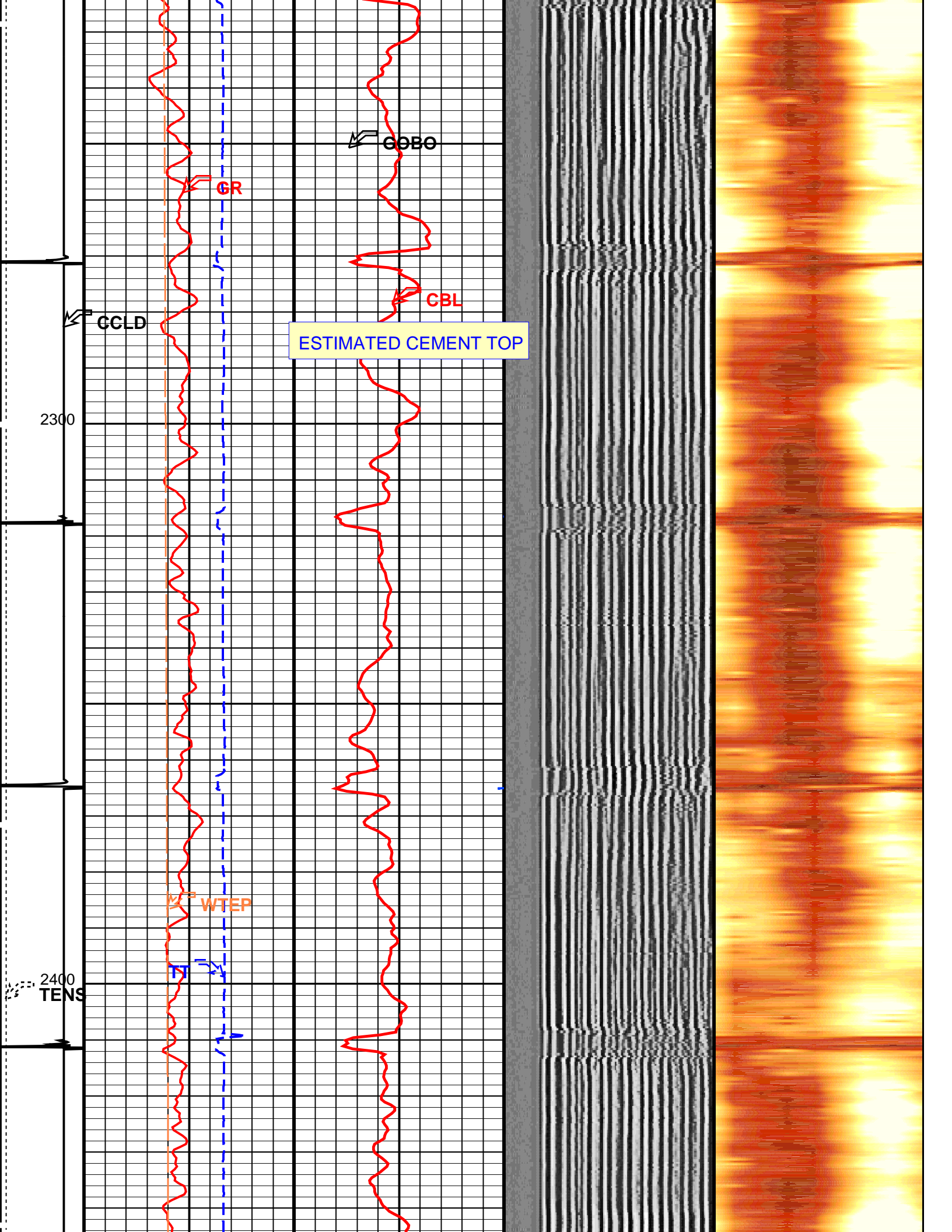


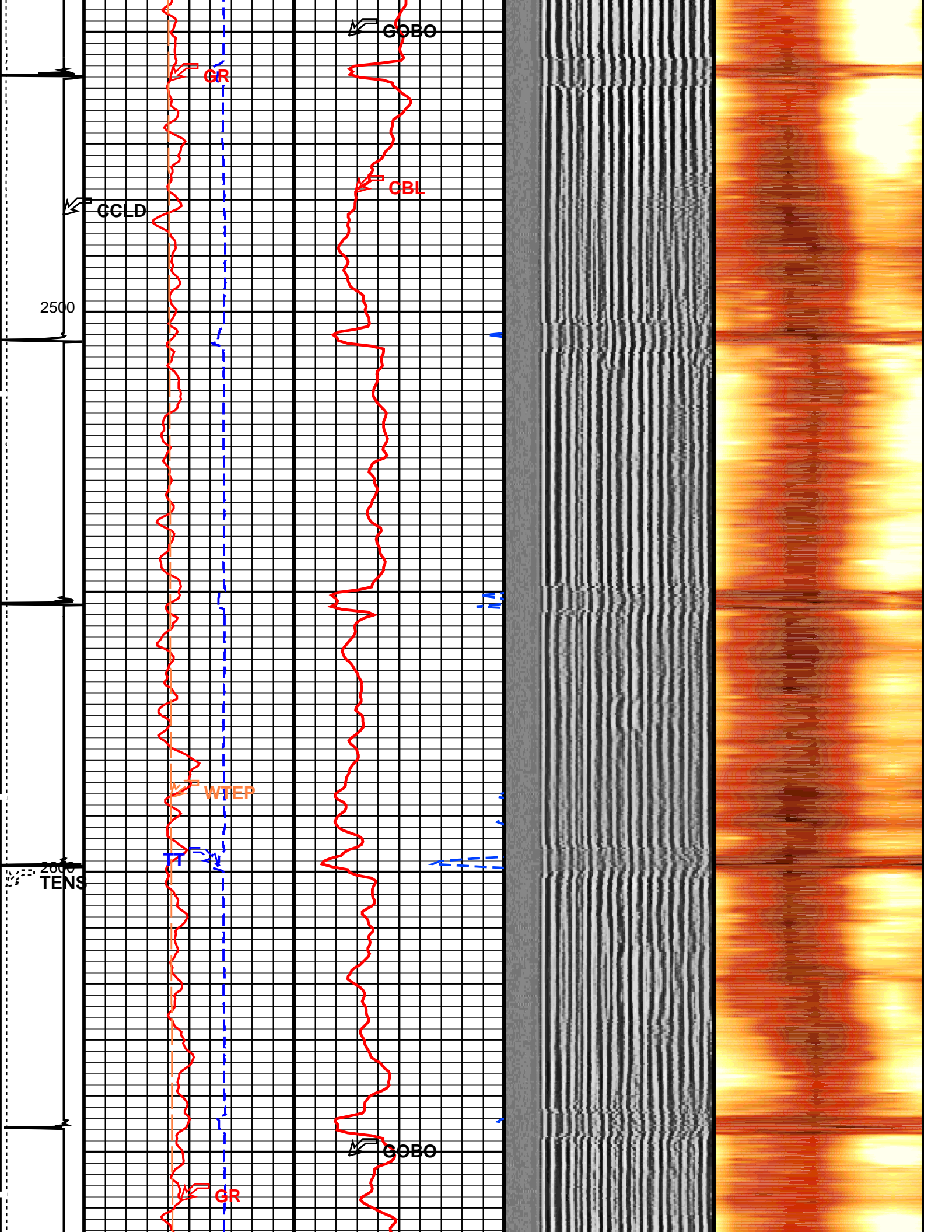




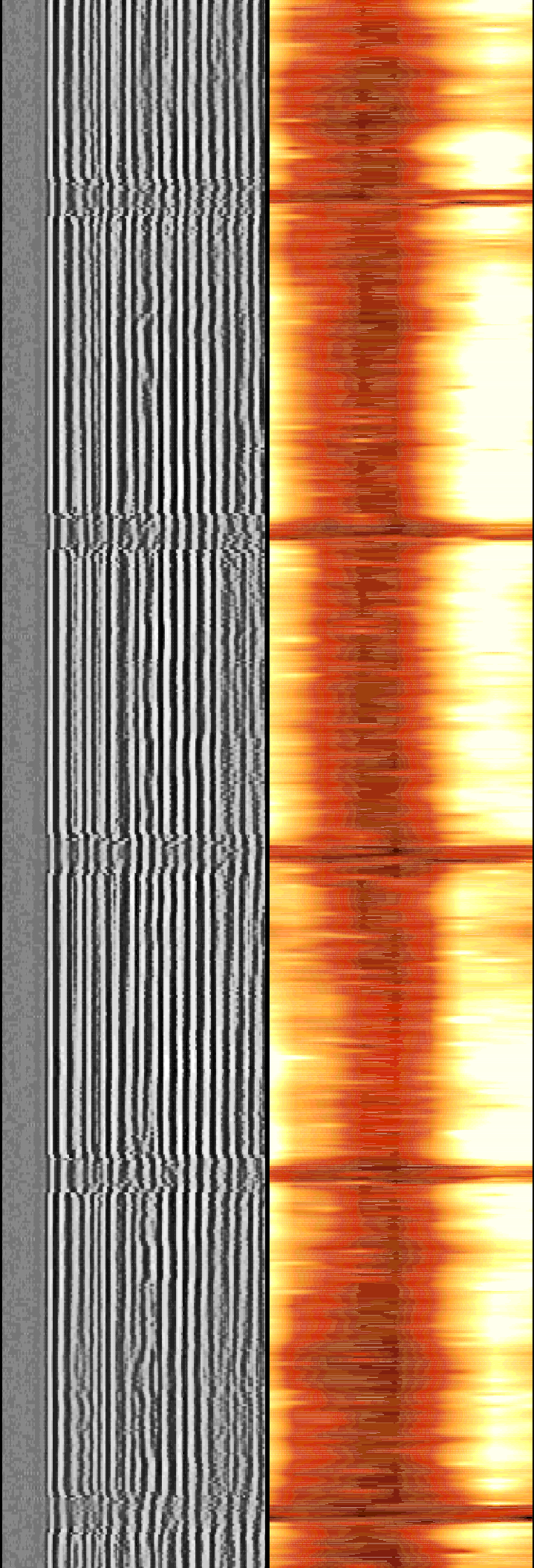
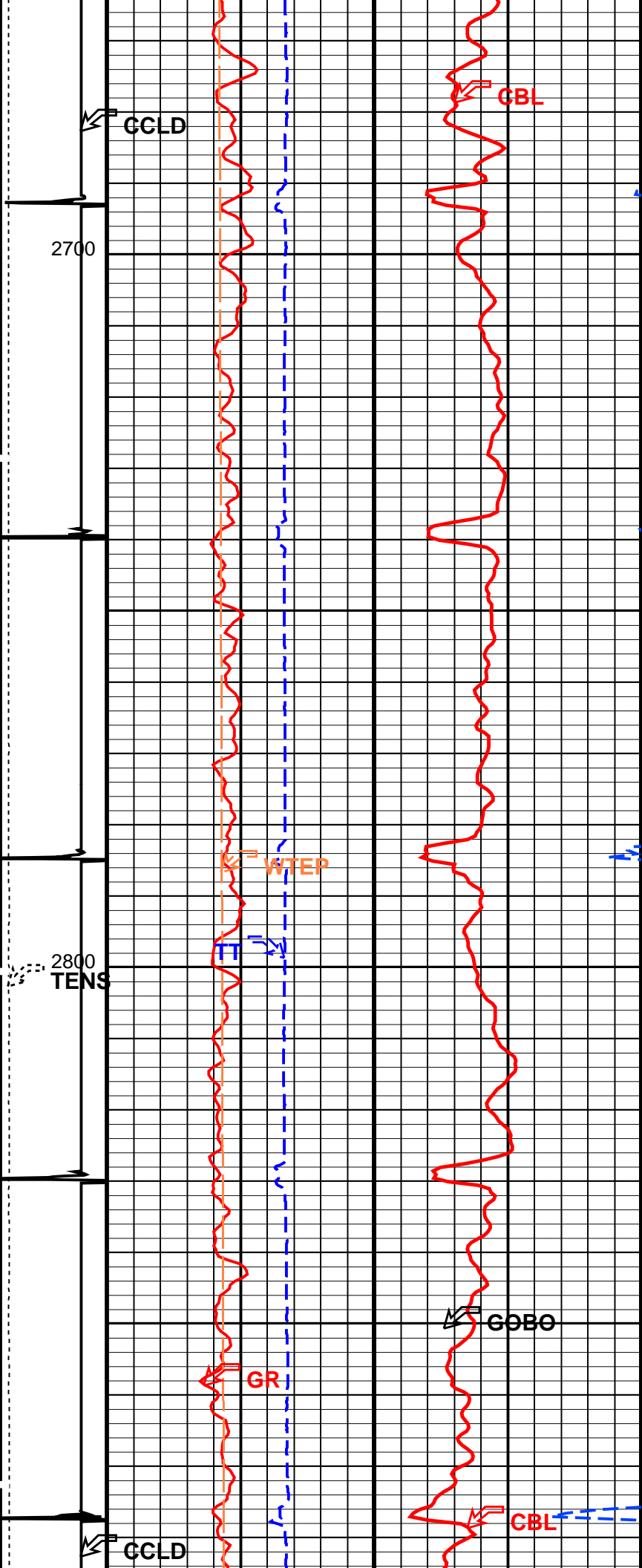


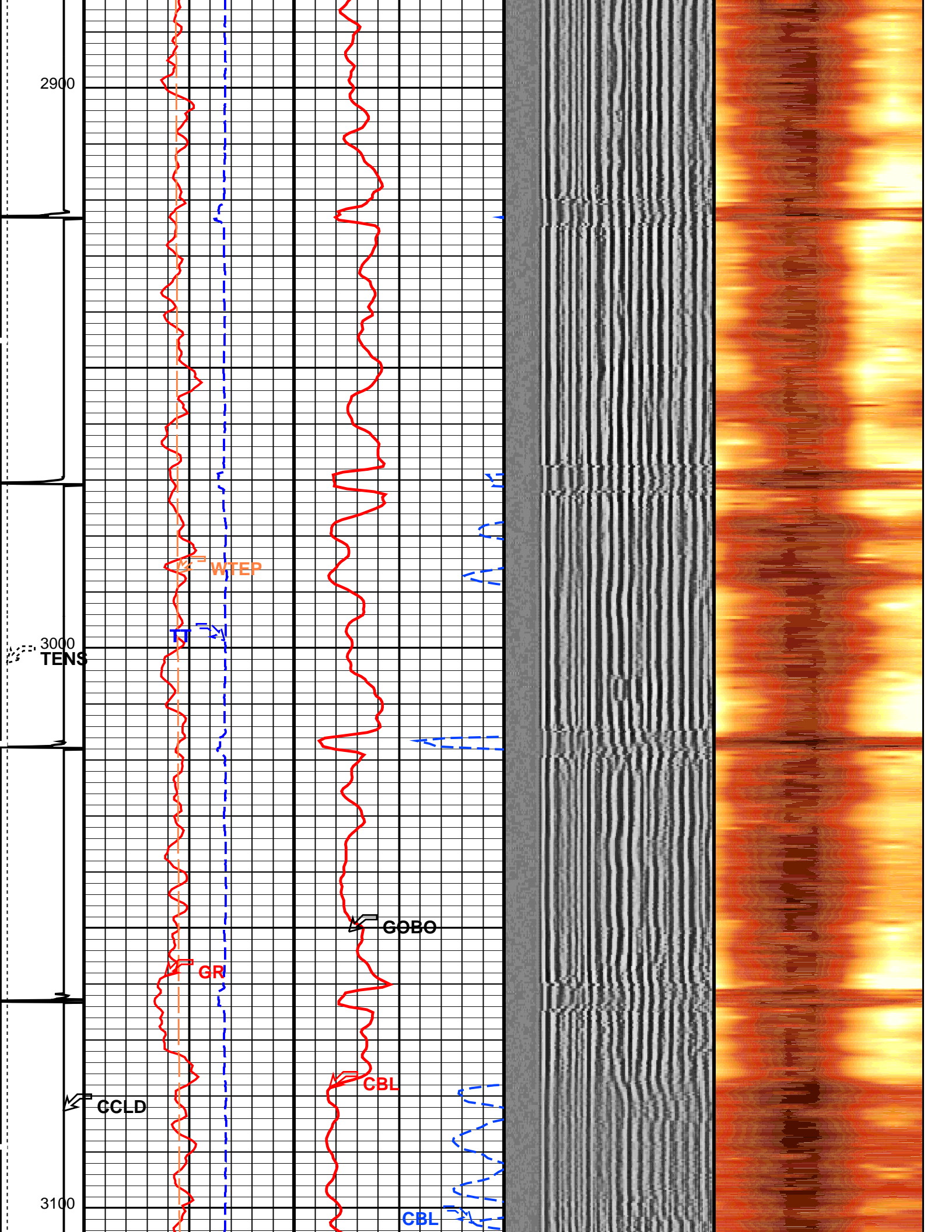




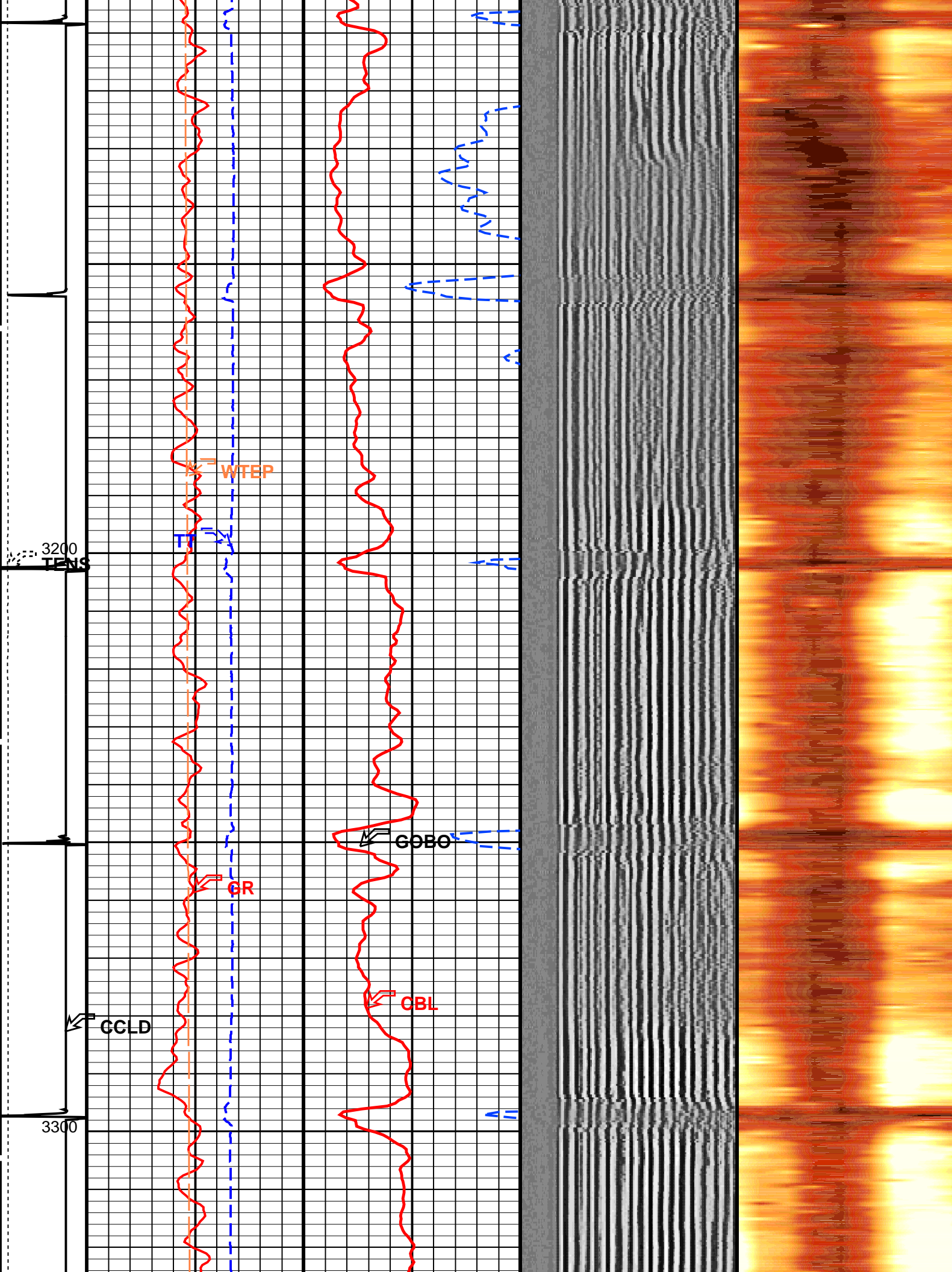


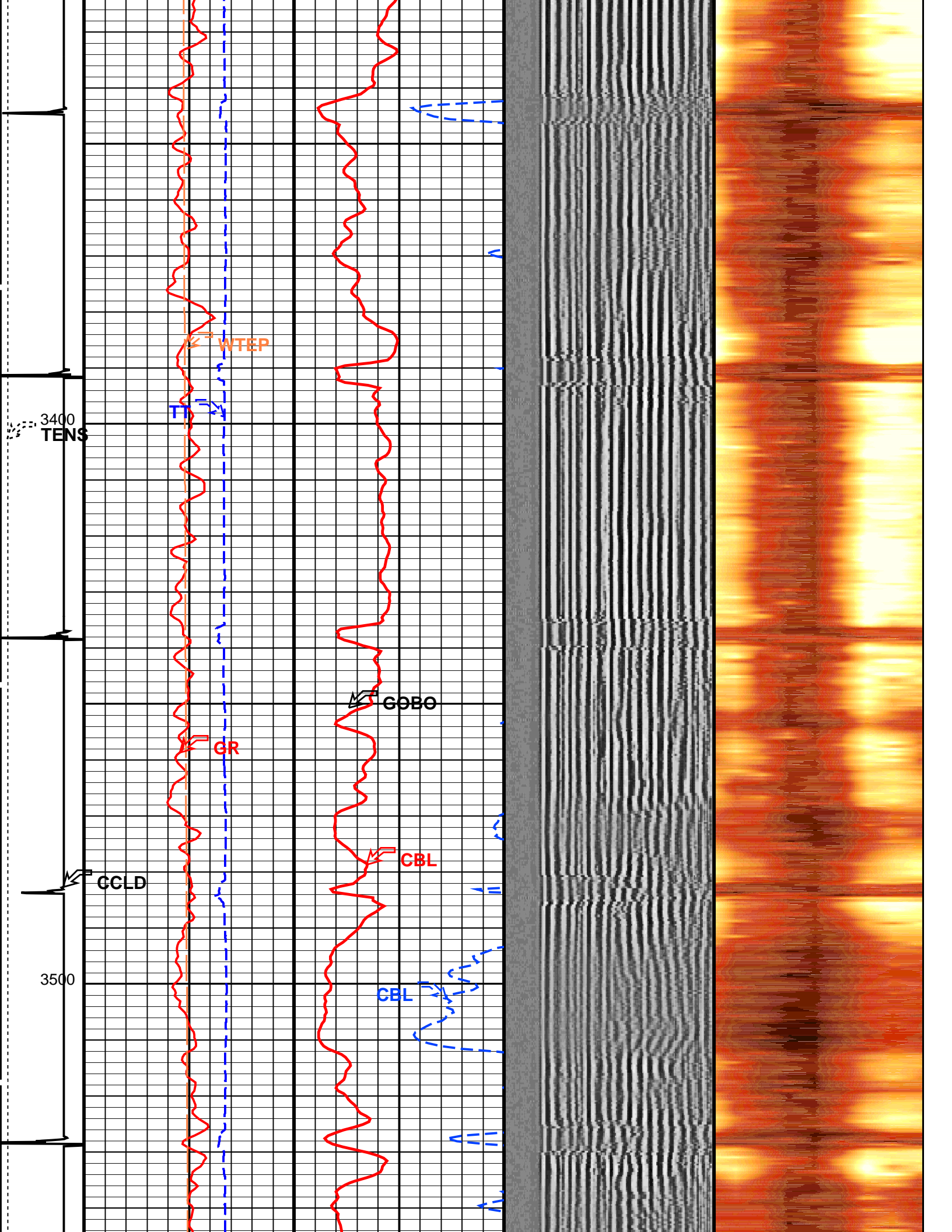




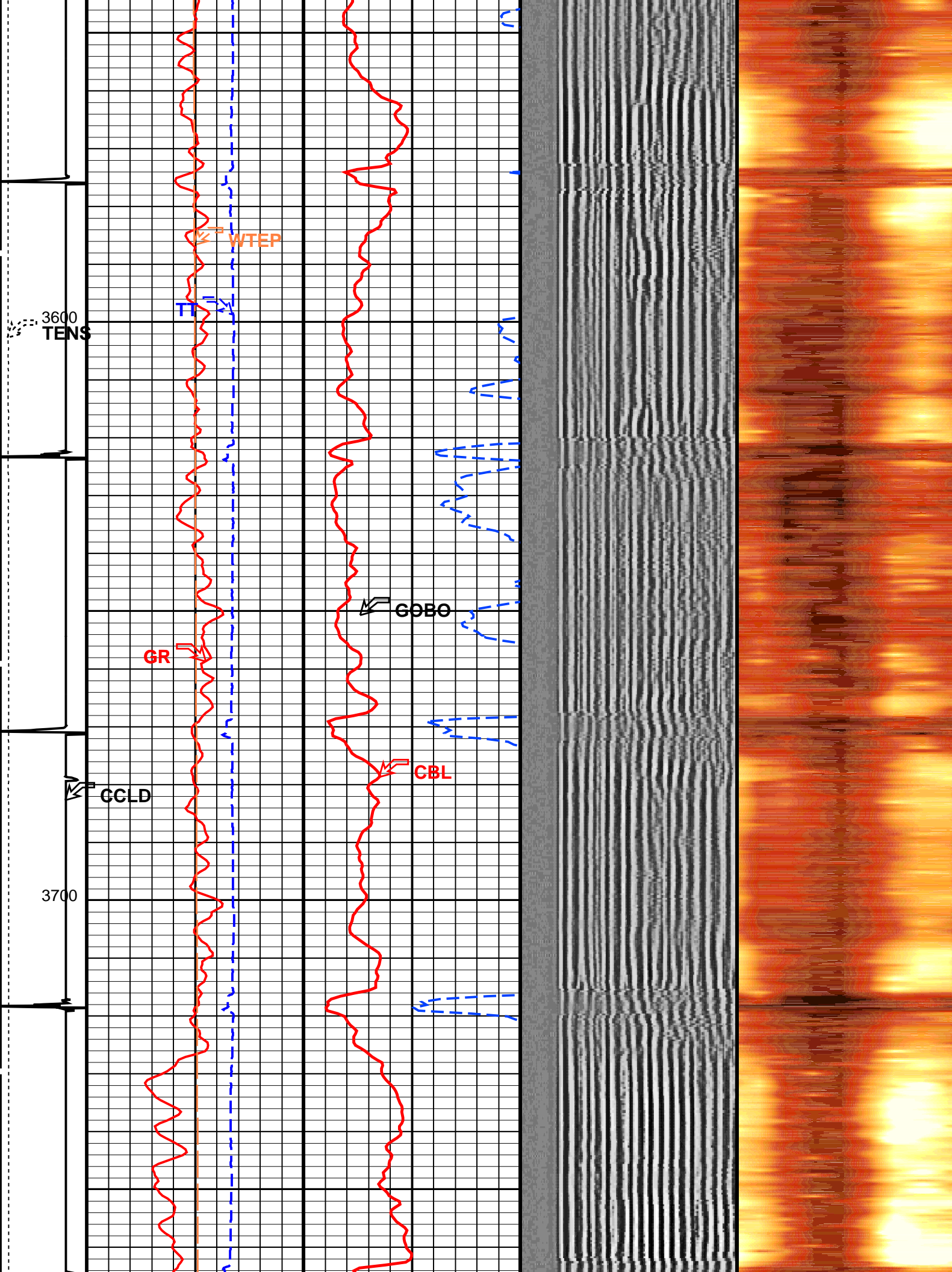


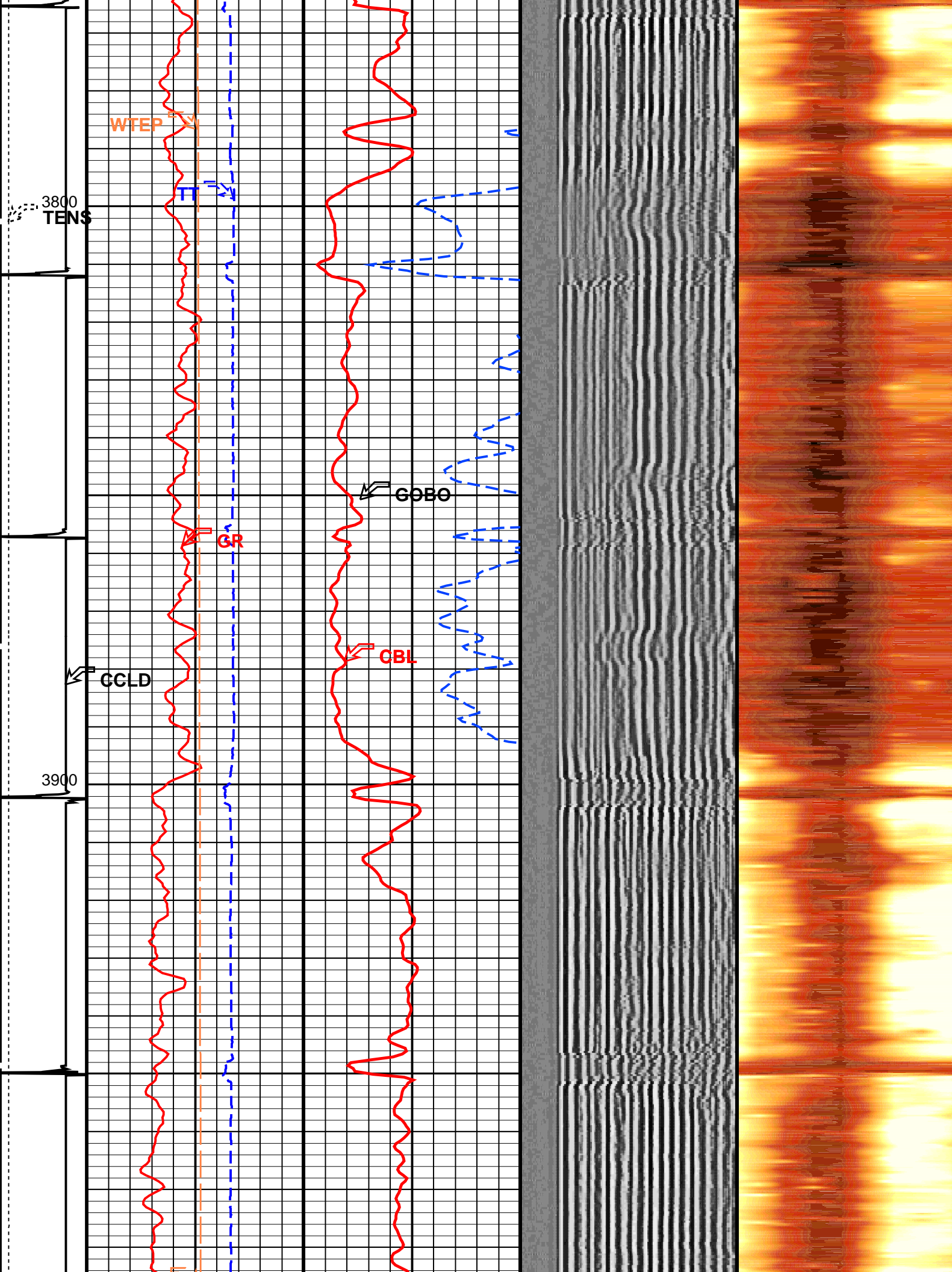




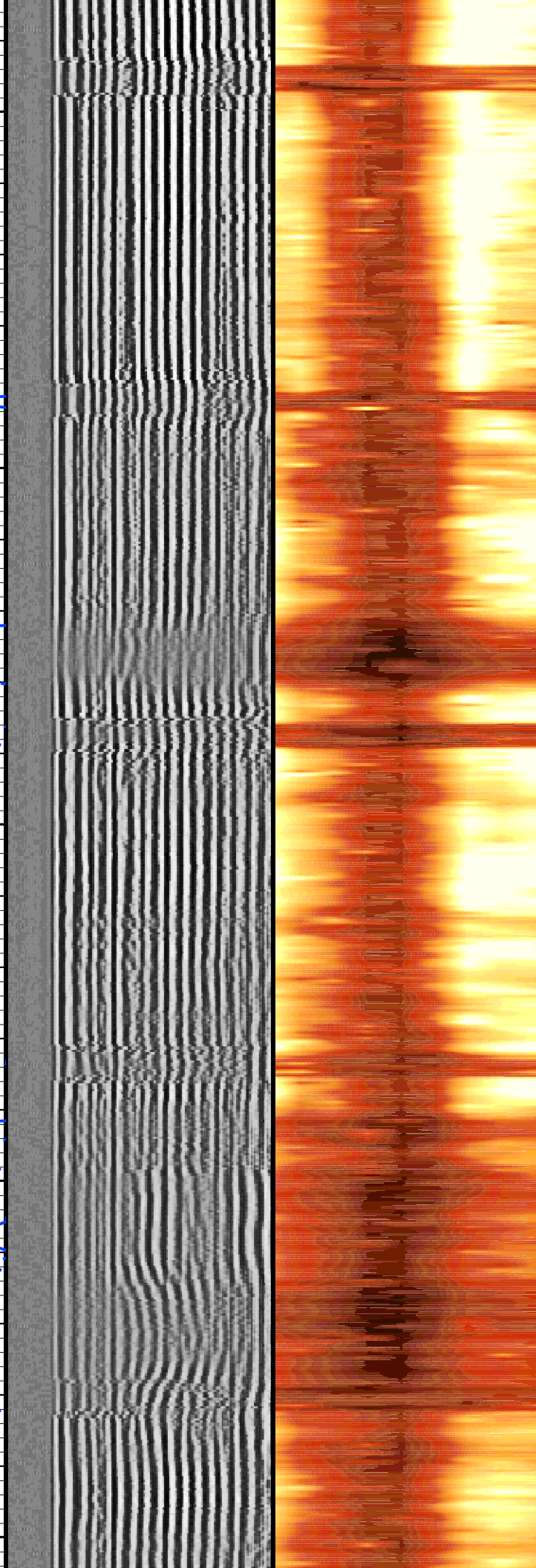
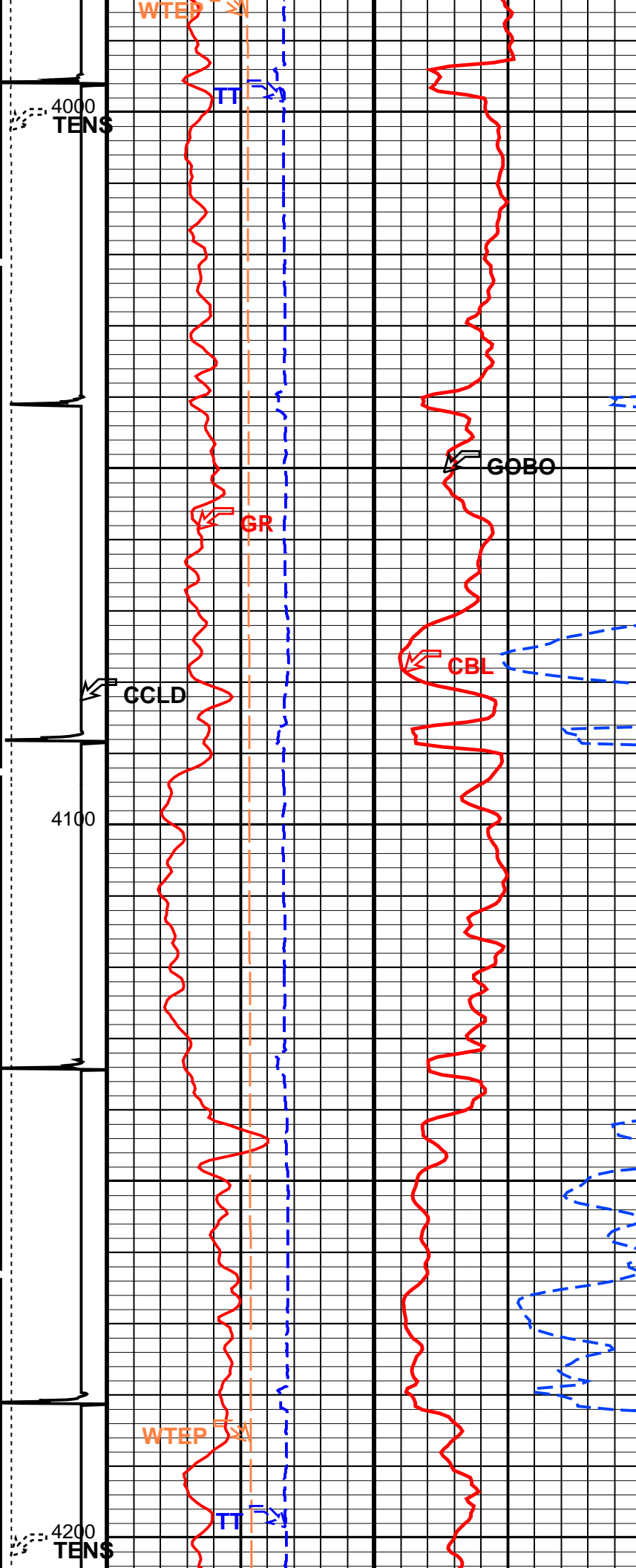


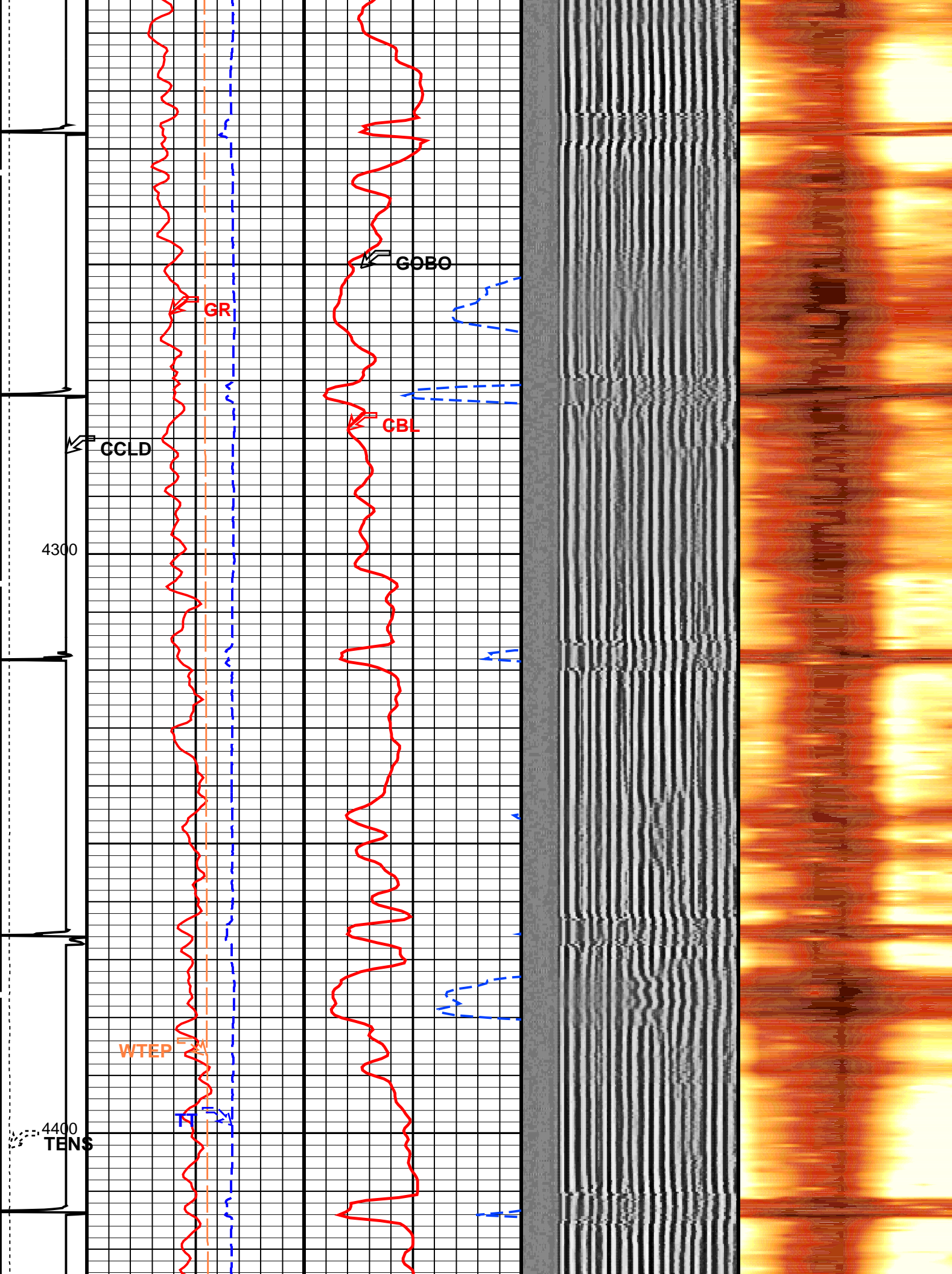




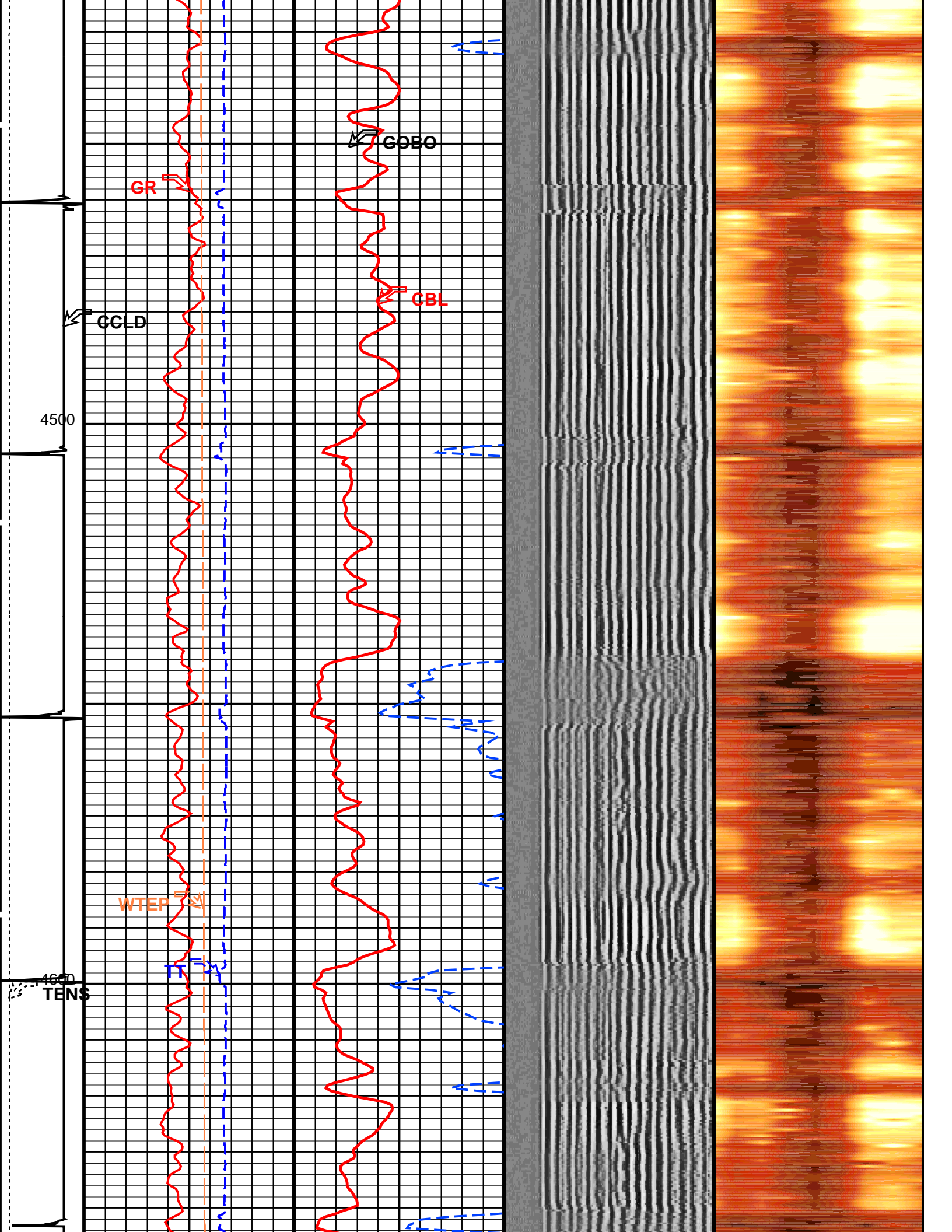


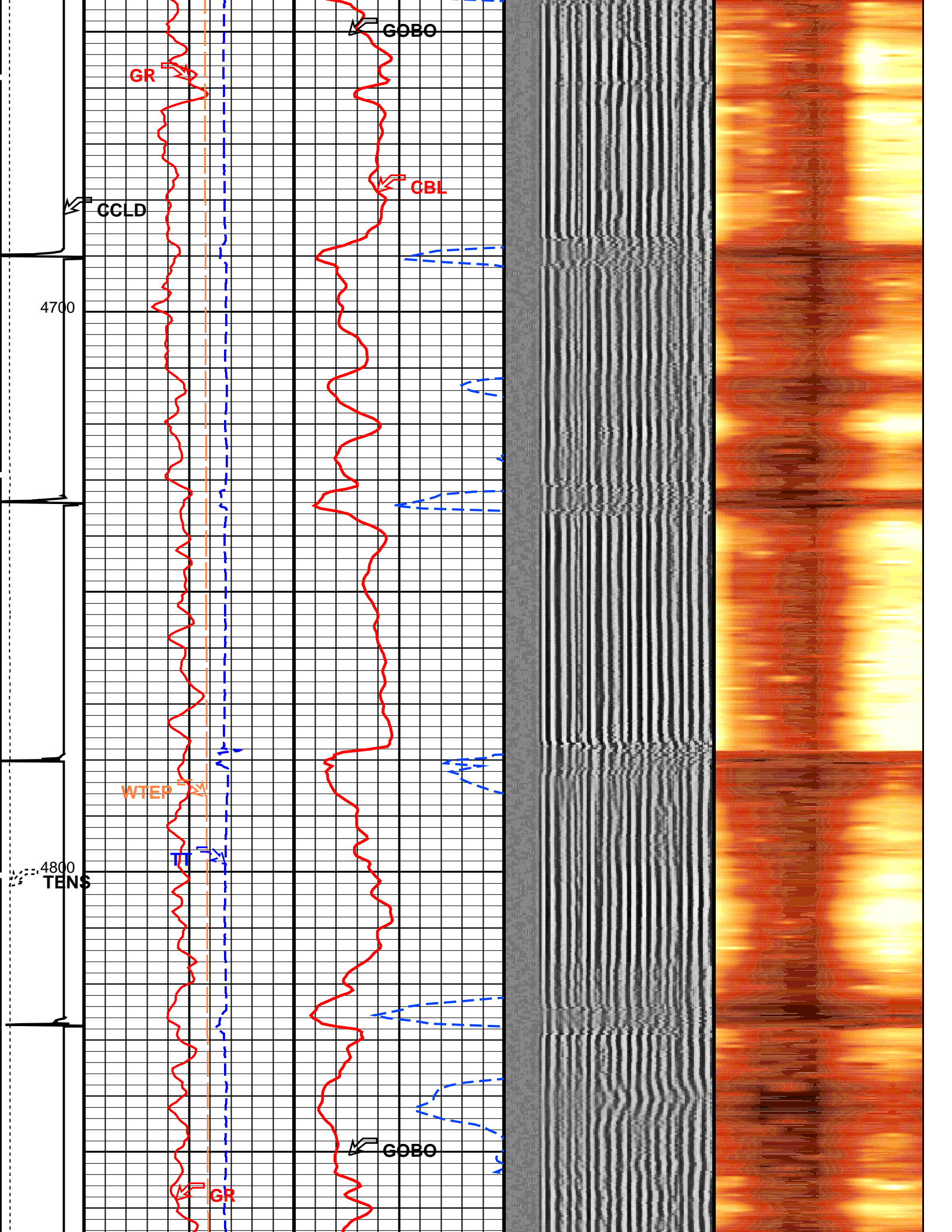




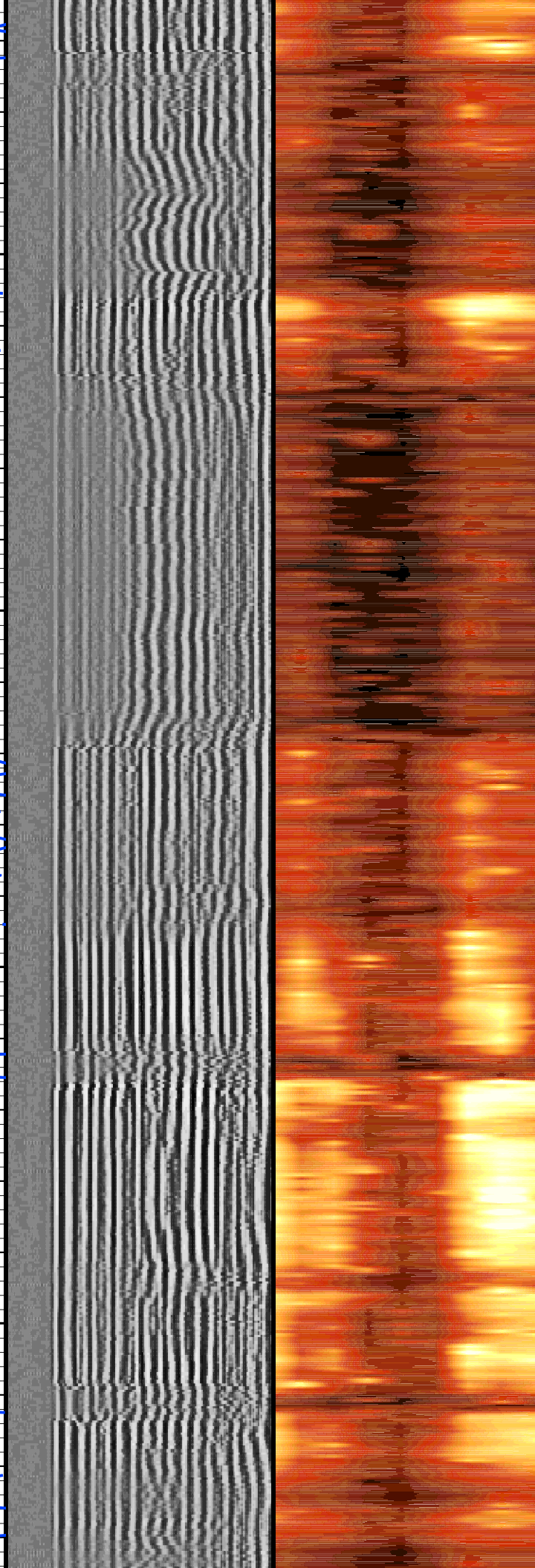
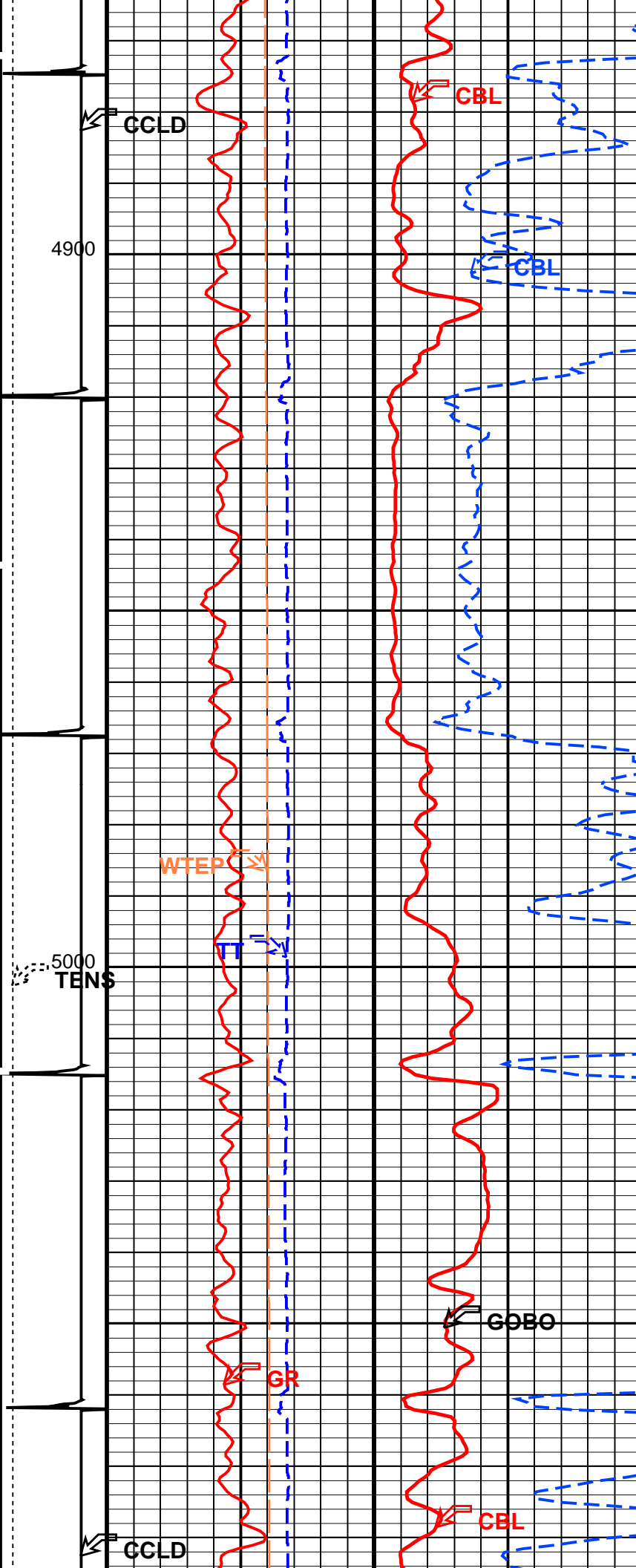


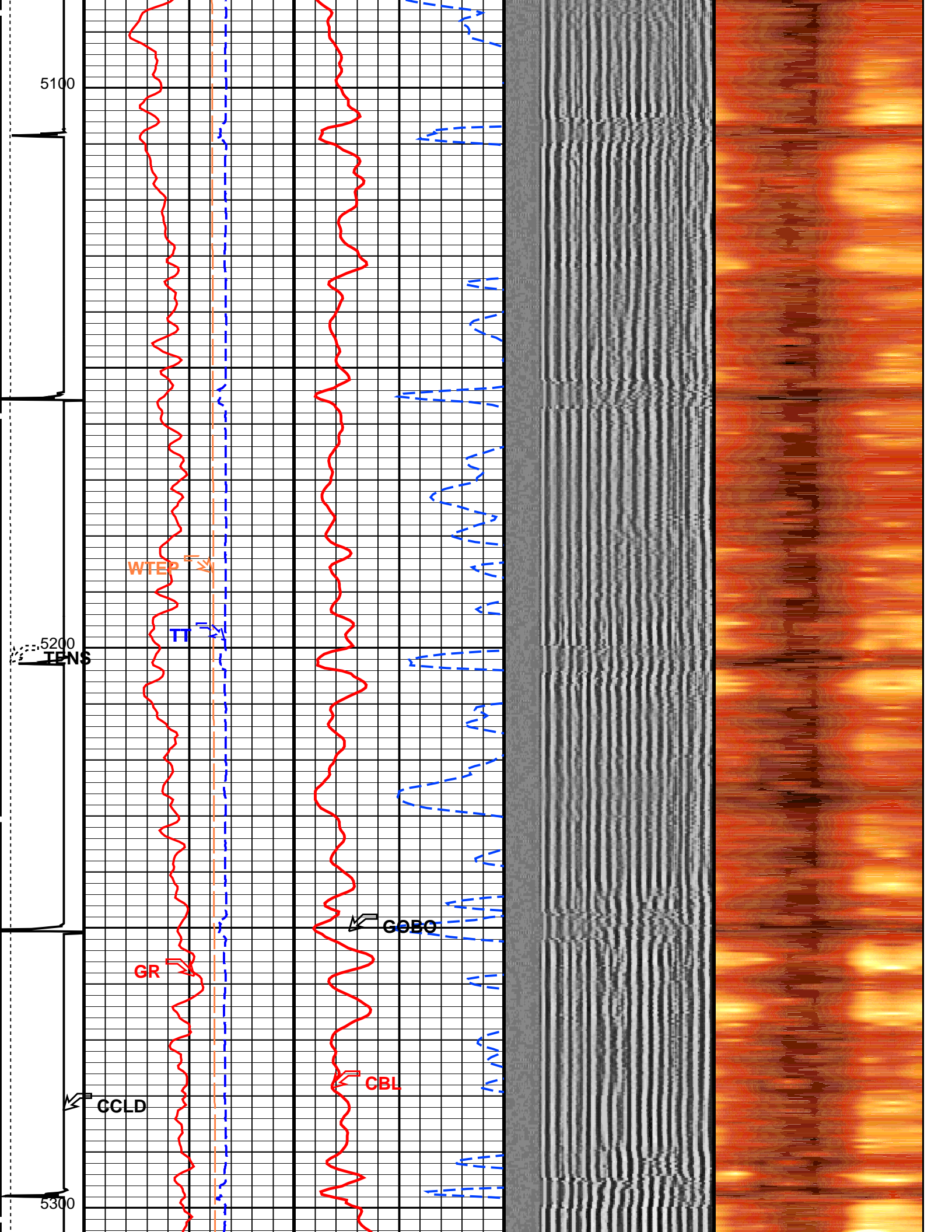




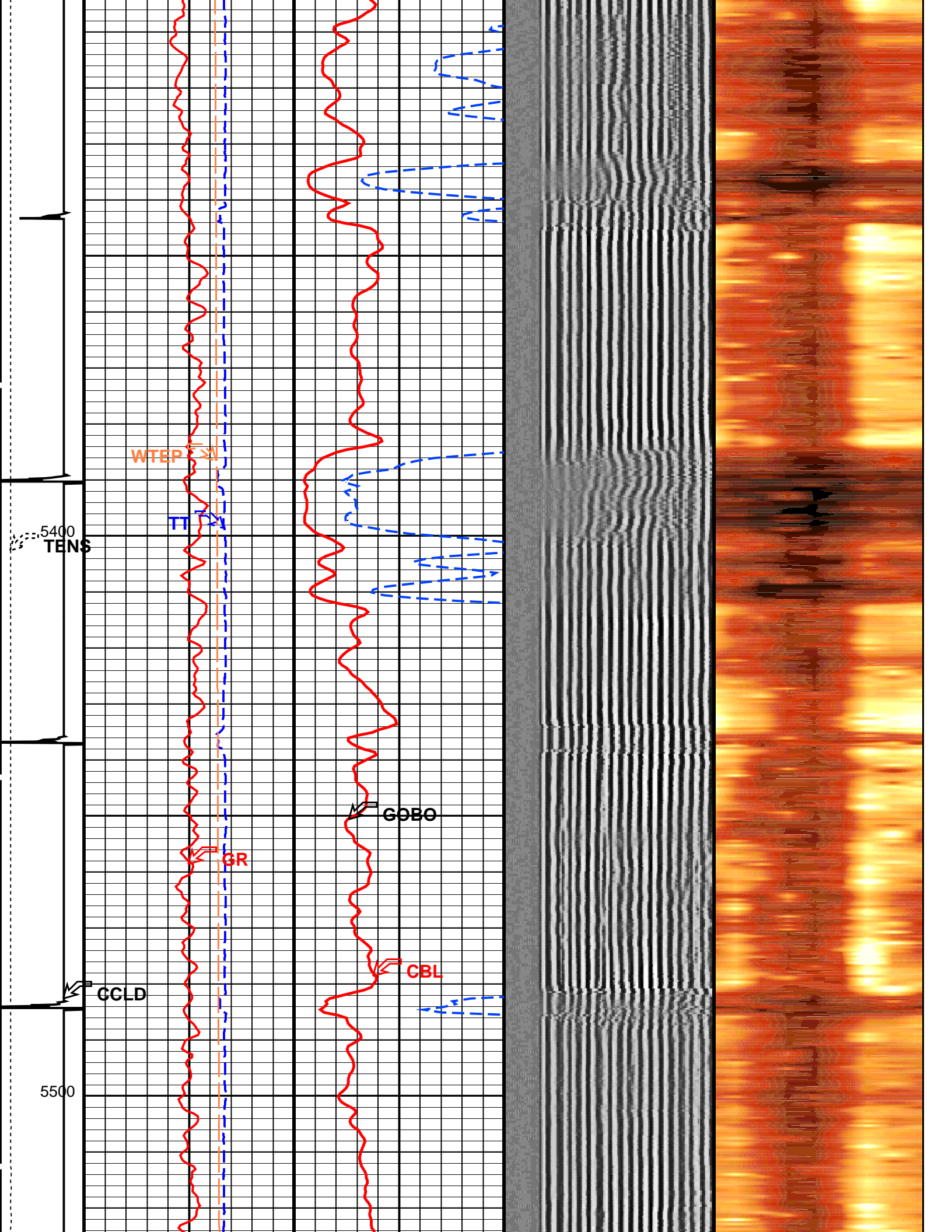


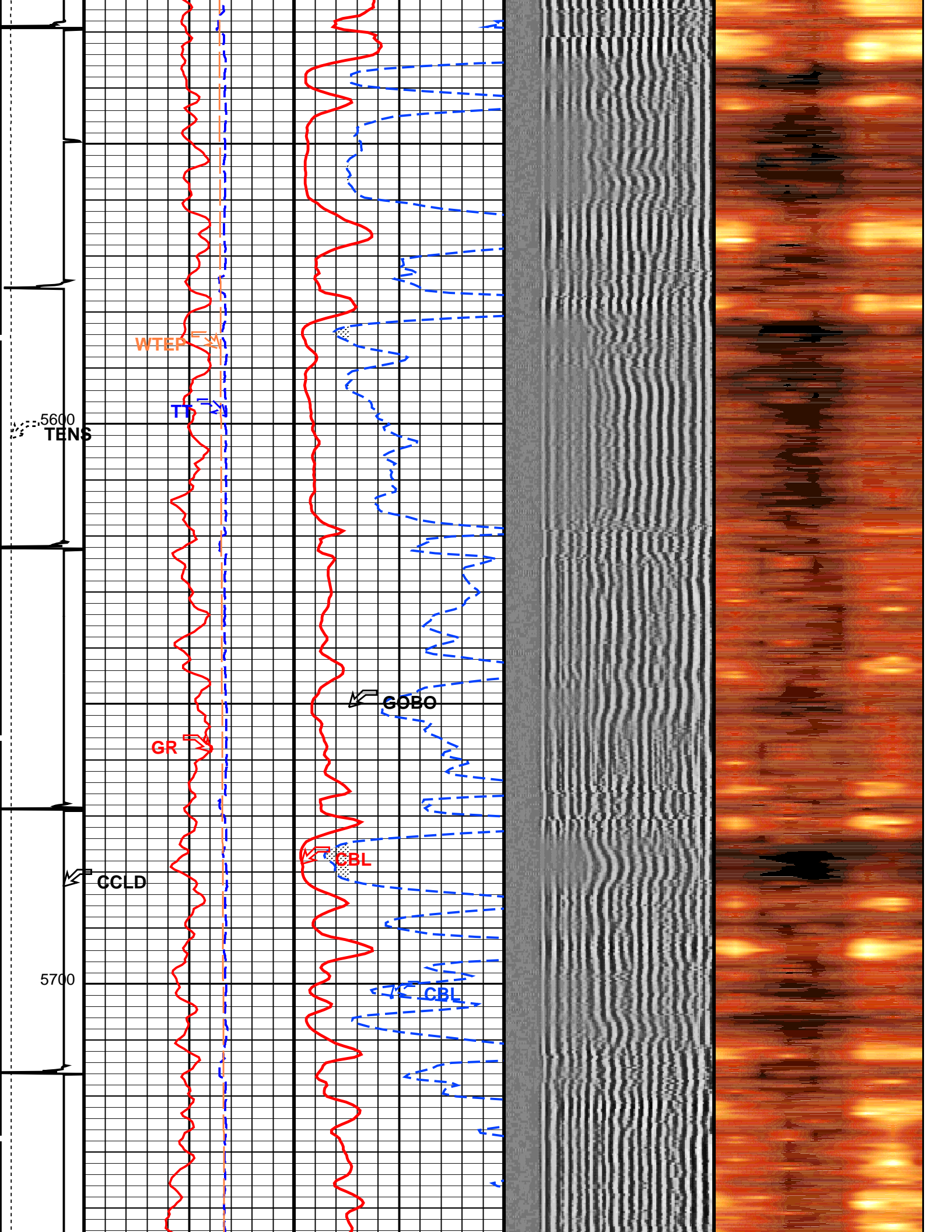




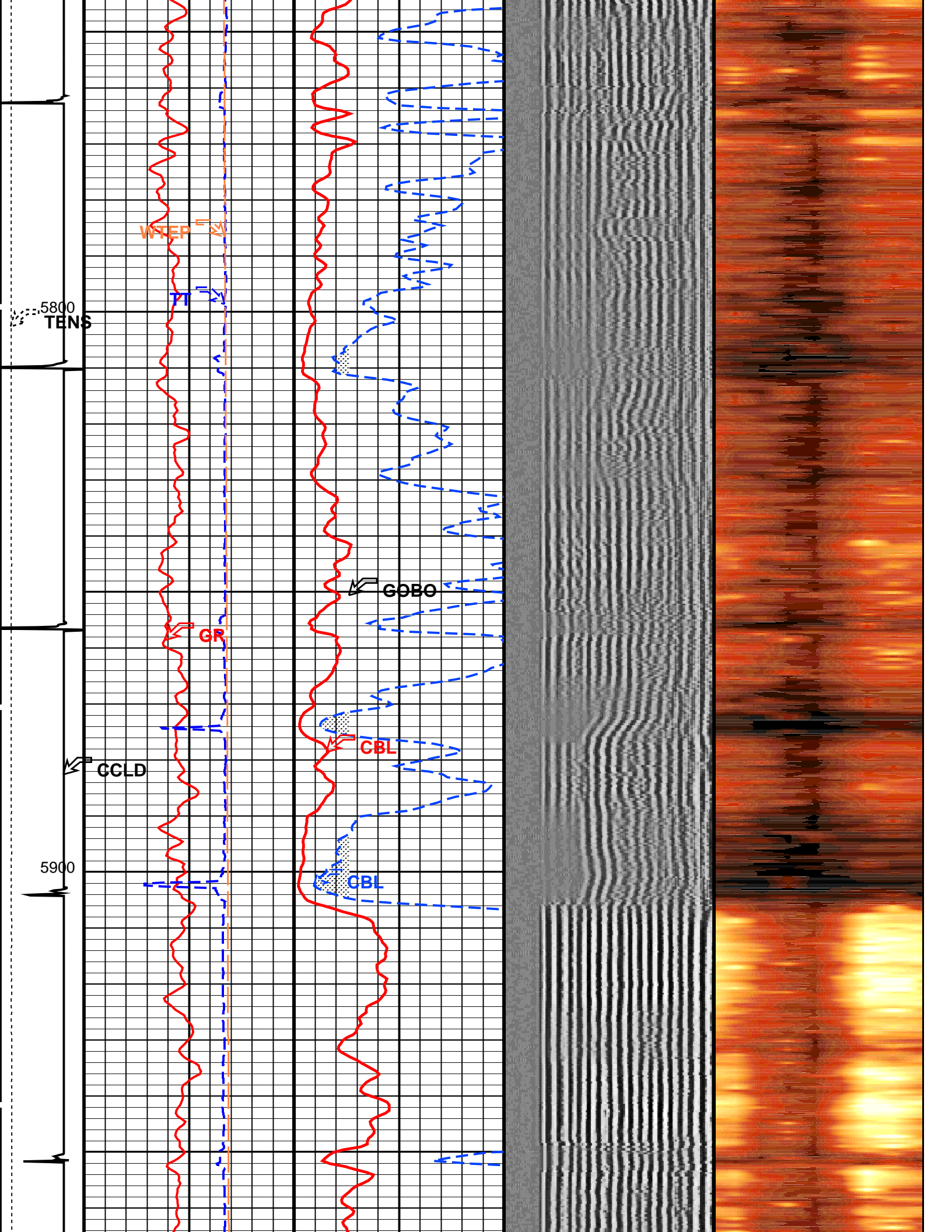


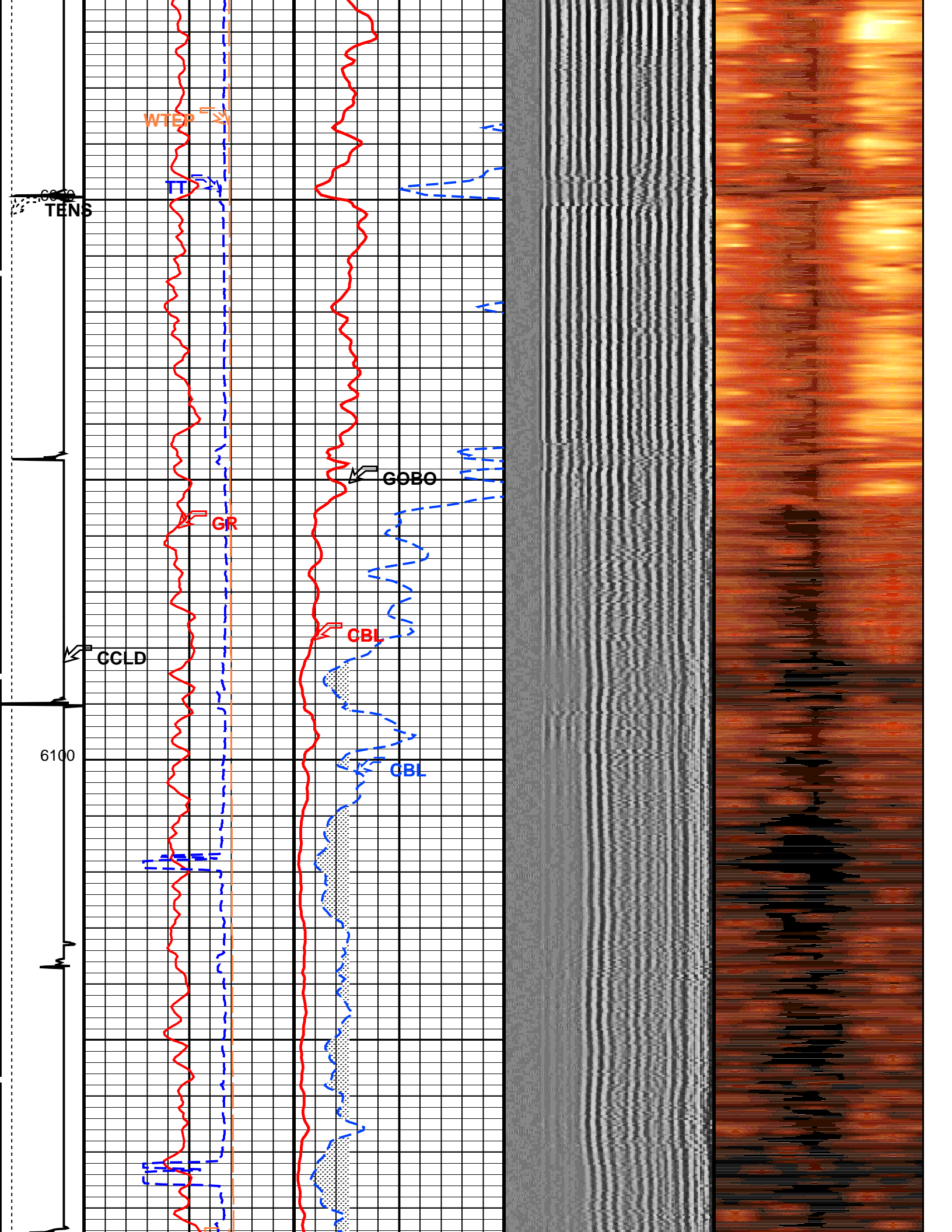




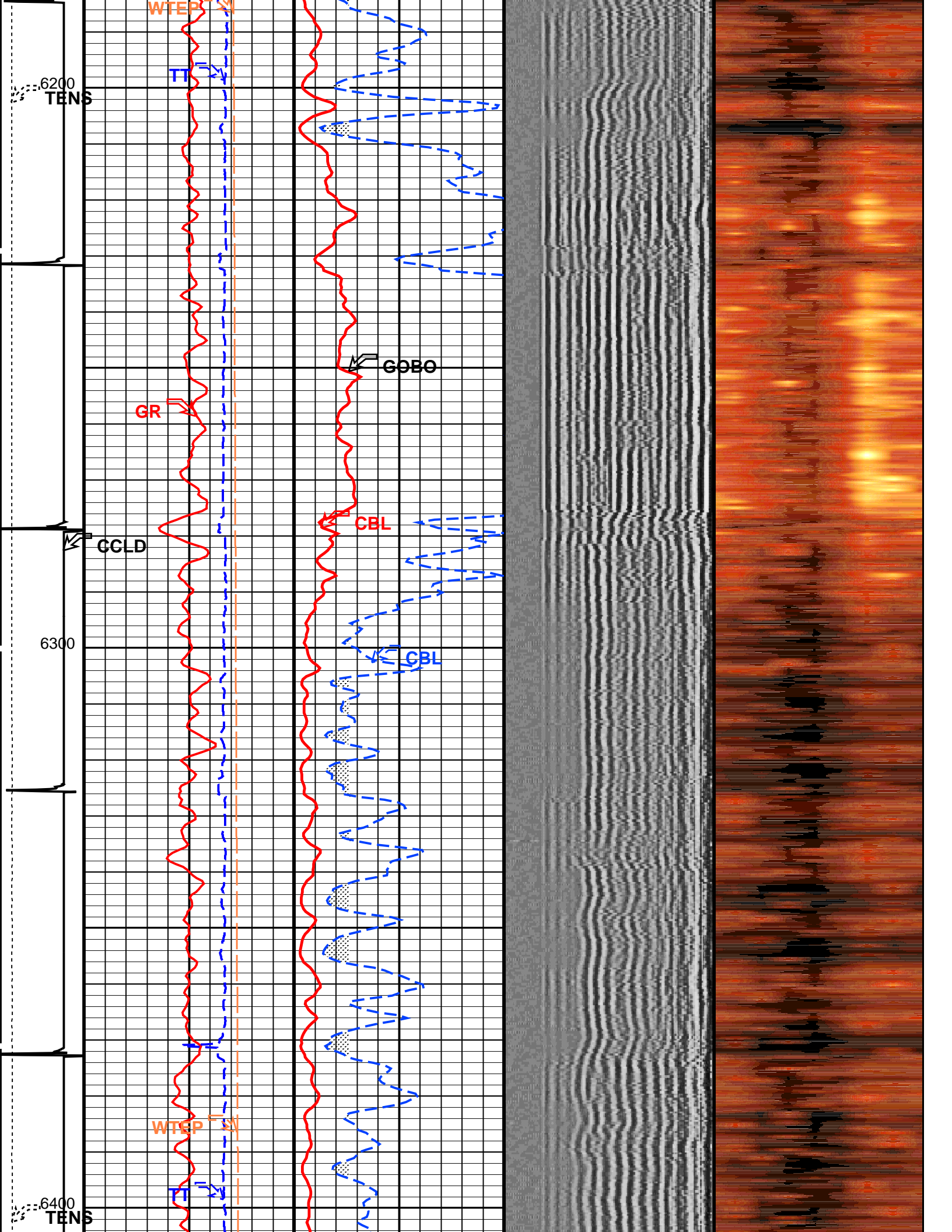


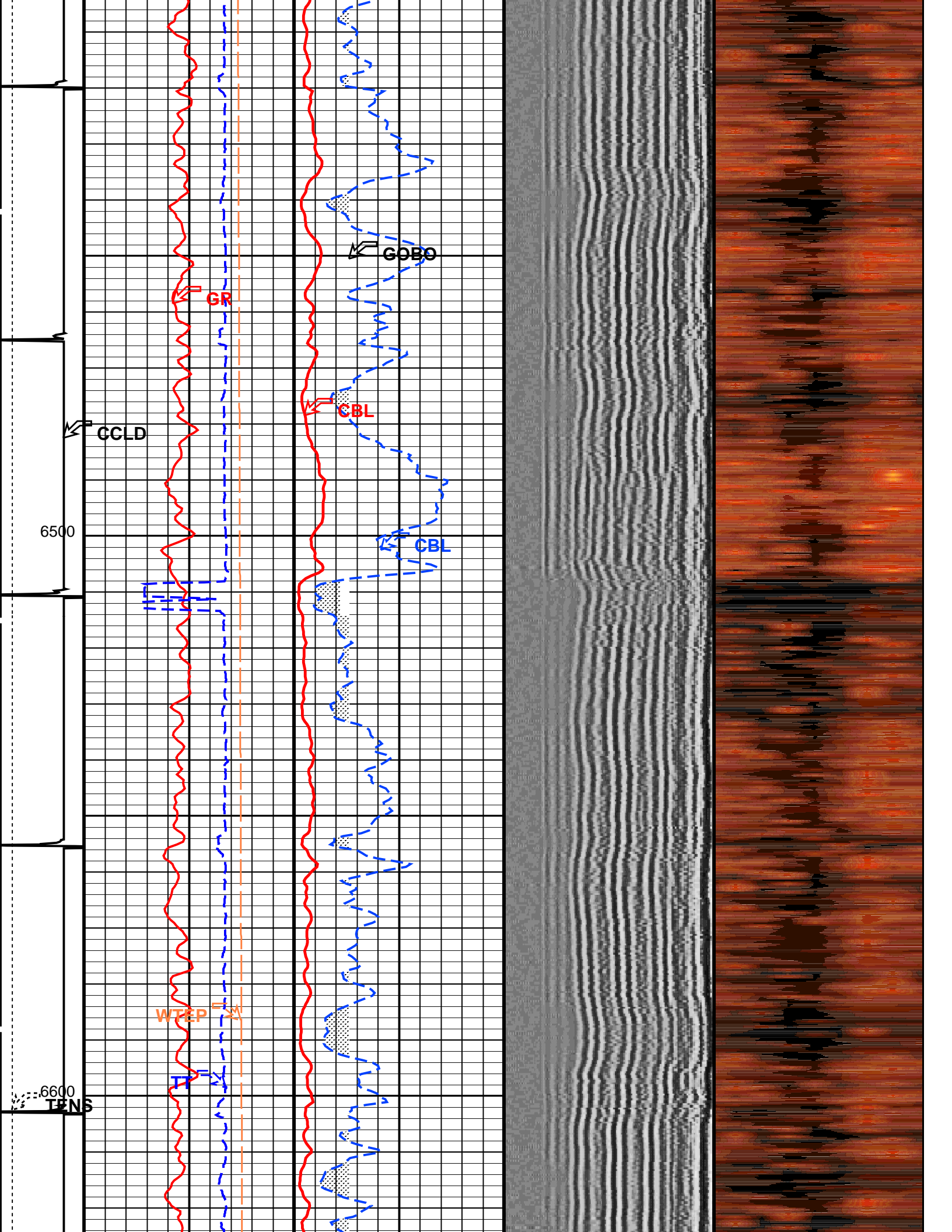




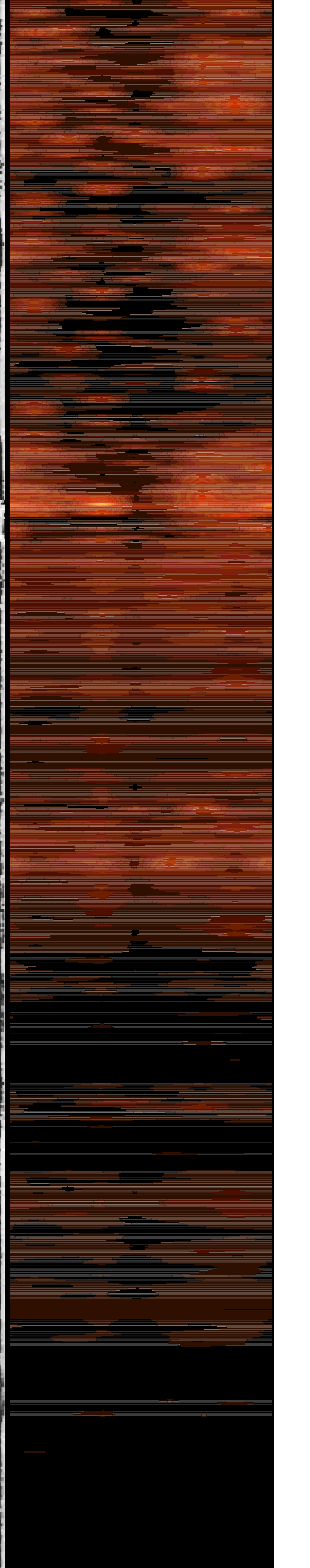
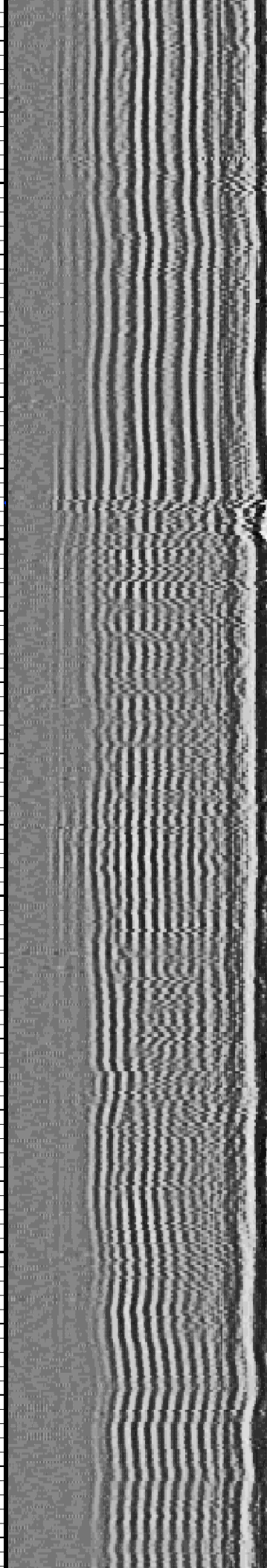
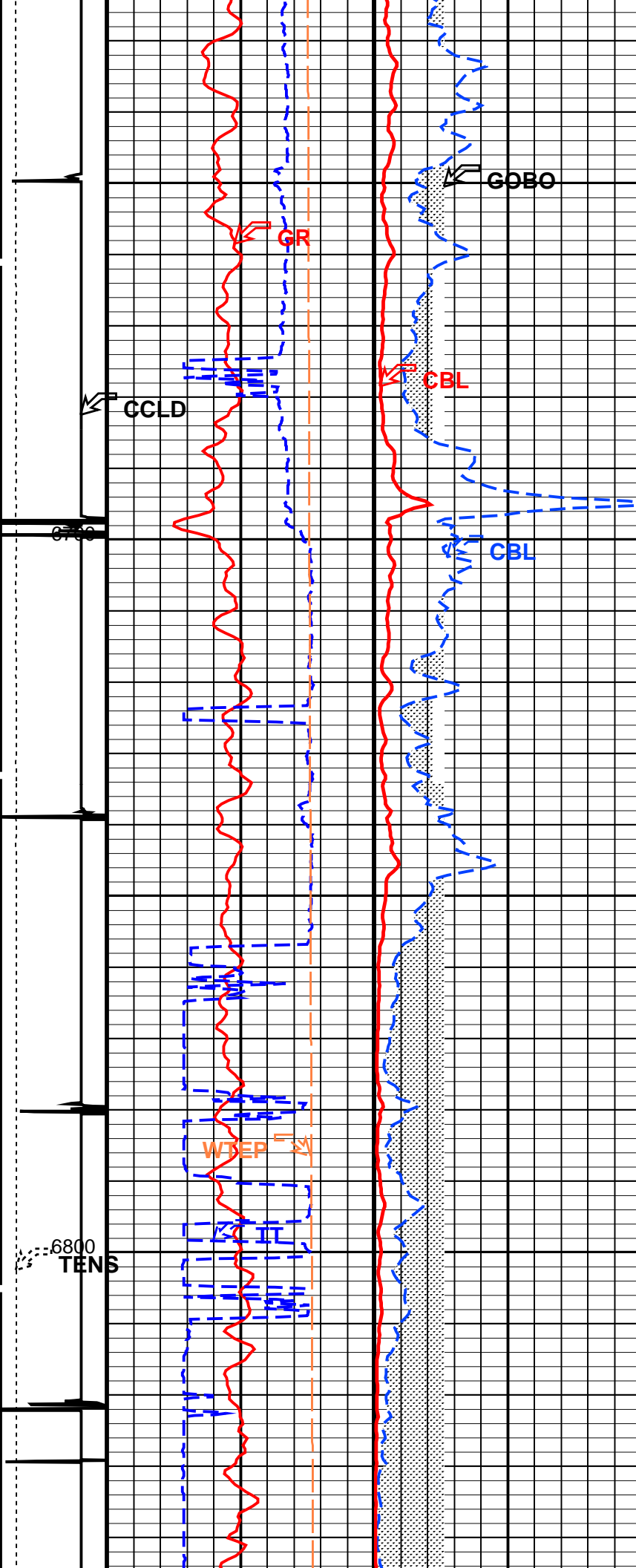


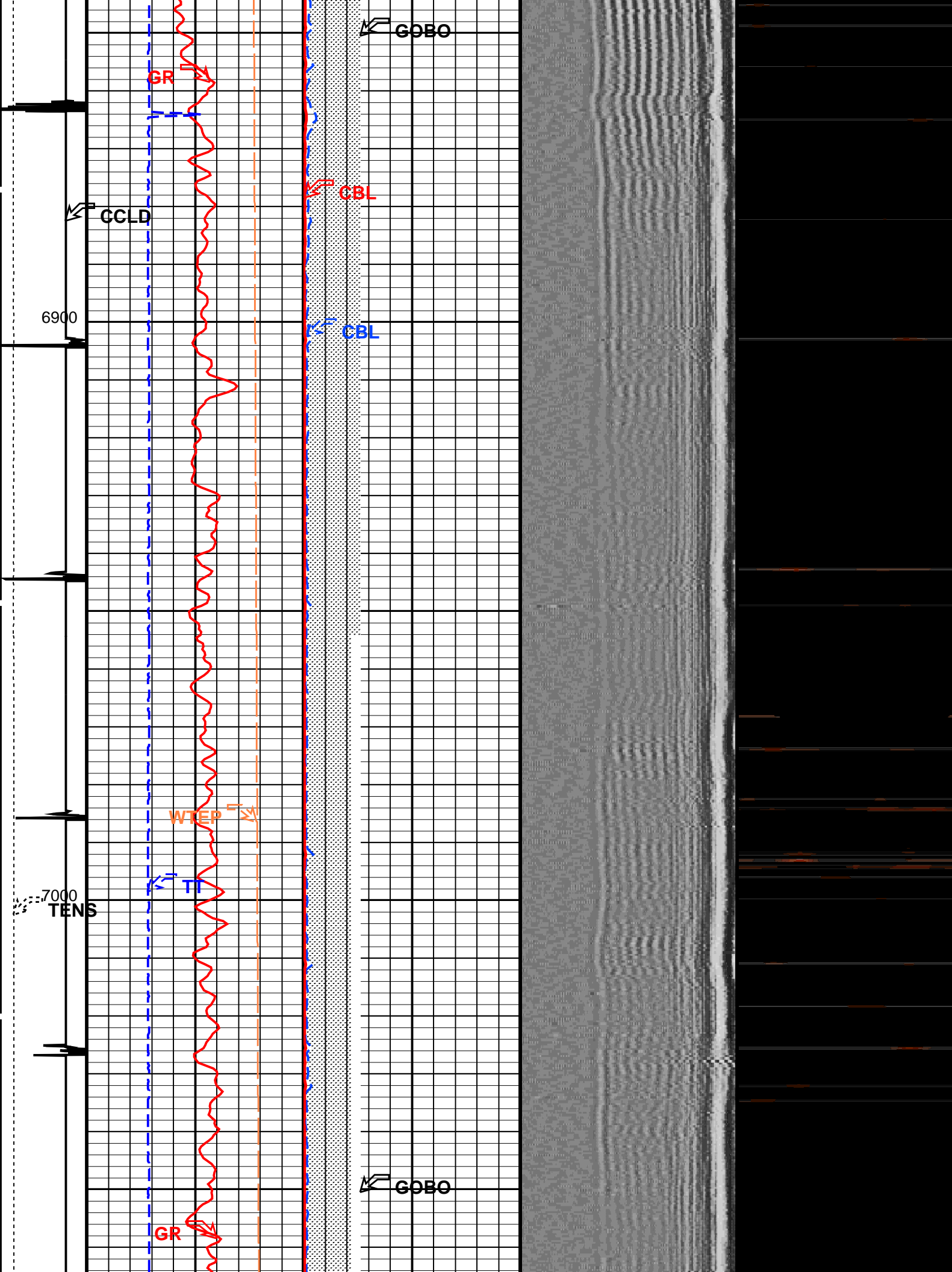




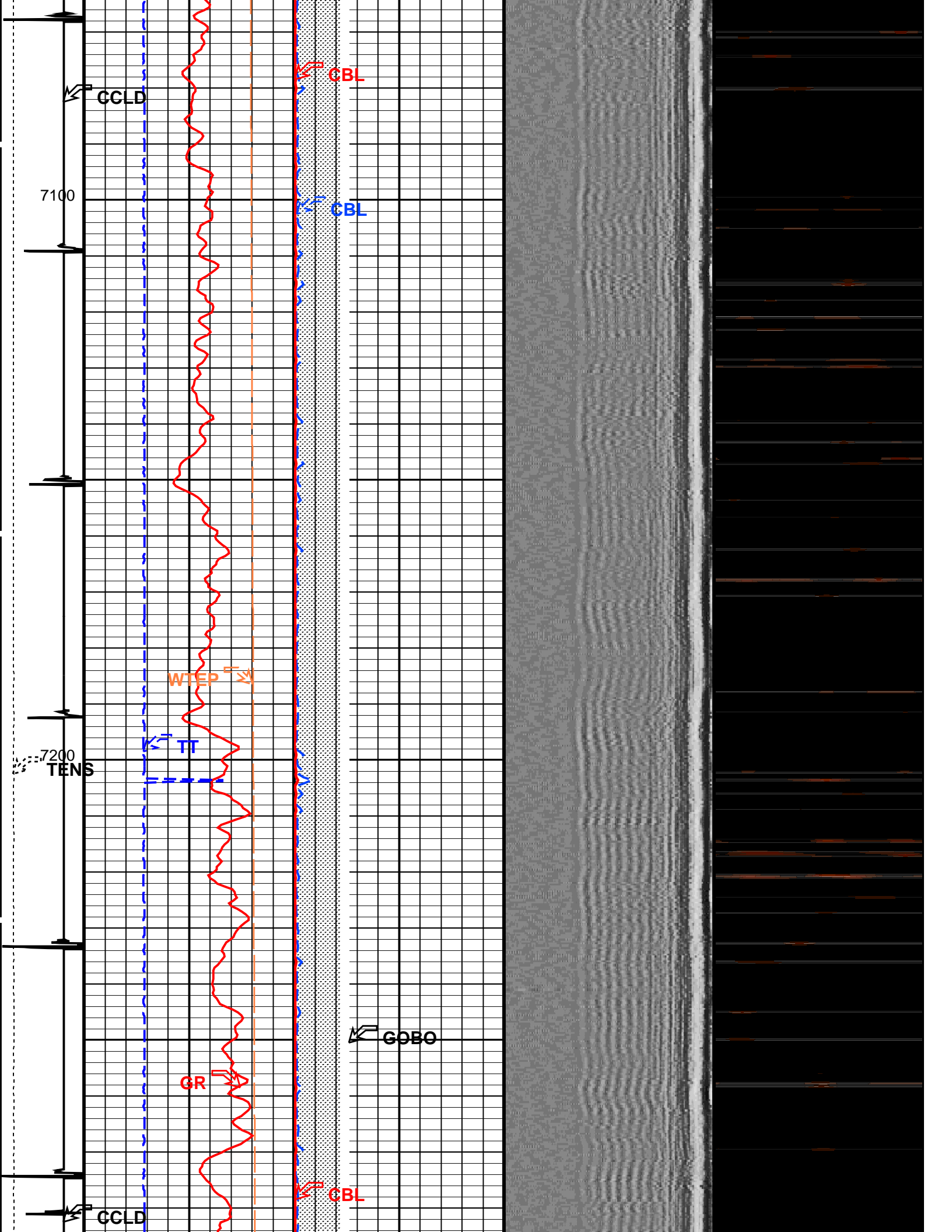


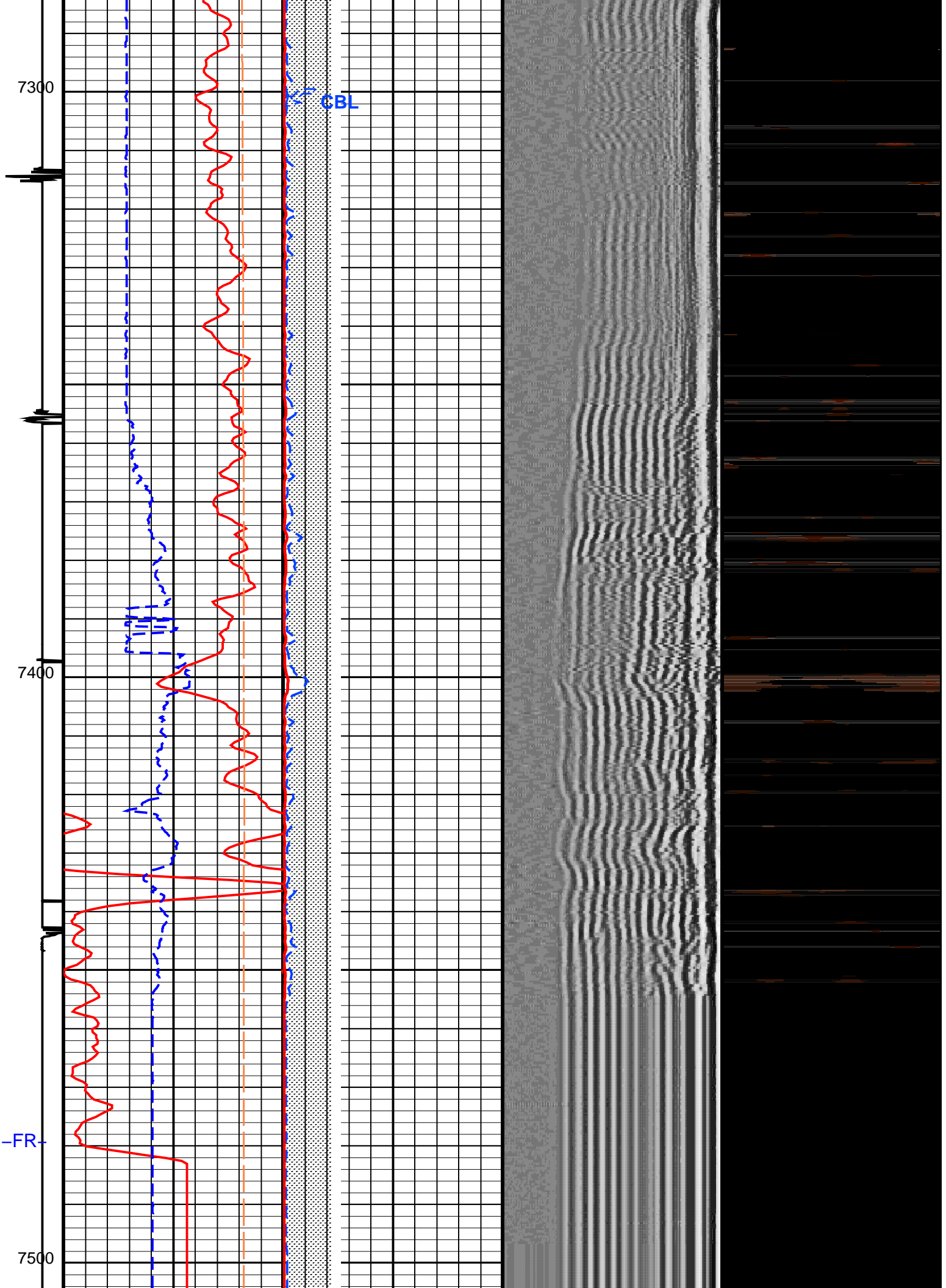




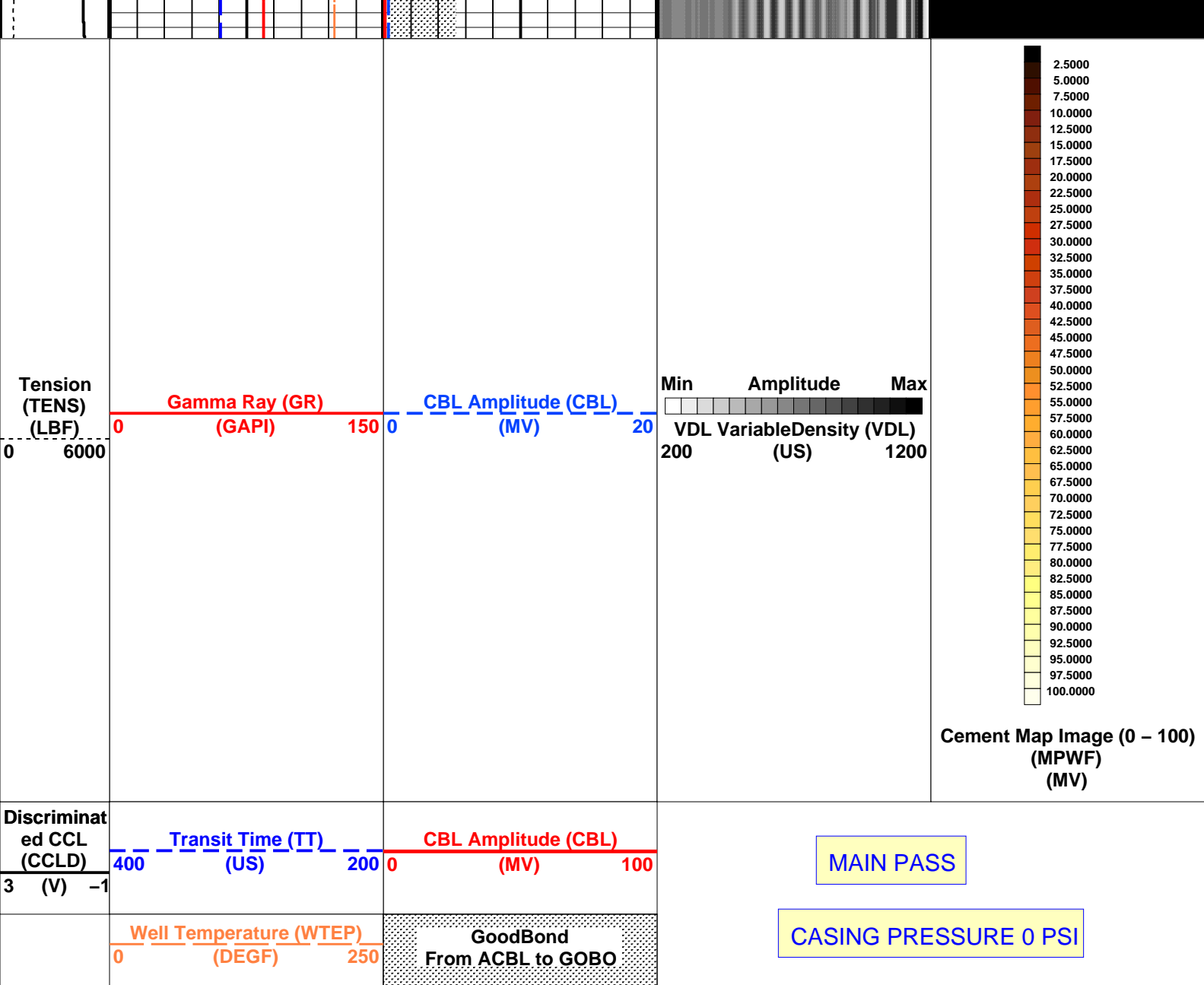












Time Mark Every 60 S

Format: Scmt\_VDL\_Image Vertical Scale: 5" per 100' Graphics File Created: 08-Dec-2011 15:17

OP System Version: 19C0-187

SCMT-CB 19C0-187 PSPT 19C0-187

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
DTE	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	
RBC	Relative Bearing Correction Allow/Disallow	ALLOW	
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	8.40	LB/G
TD	Total Depth	-50000	FT

## Output DLIS Files

DEFAULT SCMT\_PSP\_003LUP FN:2 PRODUCER 08-Dec-2011 15:17

Company: **CHESAPEAKE OPERATING, INC.**

**Schlumberger**

Well: **HEDIGER 24-9-67-1H**

Field: **WILD CAT**

County: **WELD**

State: **COLORADO**

CBL / VDL MAP IMAGE

GAMMA RAY

CASING COLLAR LOG