



Company: CHESAPEAKE OPERATING, INC.

Well: STATE 8-60-16-2H

Field: WILDCAT

County: WELD

State: COLORADO

CEMENT BOND
GAMMA RAY
CASING COLLAR LOG

County:	WELD		
Field:	WILDCAT		
Location:	280' FNL & 660' FWL		
Well:	STATE 8-60-16-2H		
Company:	CHESAPEAKE OPERATING, INC.		
LOCATION			
280' FNL & 660' FWL		Elev.:	K.B. 4940.00 ft G.L. 4918.00 ft D.F.
Permanent Datum:	GROUND LEVEL	Elev.:	4918.00 ft
Log Measured From:	KELLY BUSHIGN	22.00 ft	above Perm. Datum
Drilling Measured From:	KELLY BUSHING		
API Serial No.	Section 16	Township 8N	Range 60W

	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			
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-Feb-2012		
Run Number	1		
Depth Driller	10304 ft		
Schlumberger Depth	6360 ft		
Bottom Log Interval	6352 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	215 degF		
Logger On Bottom	6-Feb-2012	13:21	
Unit Number	354	FORT MORGAN	
Recorded By	C MARCH		
Witnessed By	JOSH GINDL		

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: 6-FEB-2012 12:30:19

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-25ZT
Serial Number:	354	Serial Number:	1105	Serial Number:	354
Calibration Date:	28-JUL-2011	Calibration Date:	03-FEB-2011	Length:	16500 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.

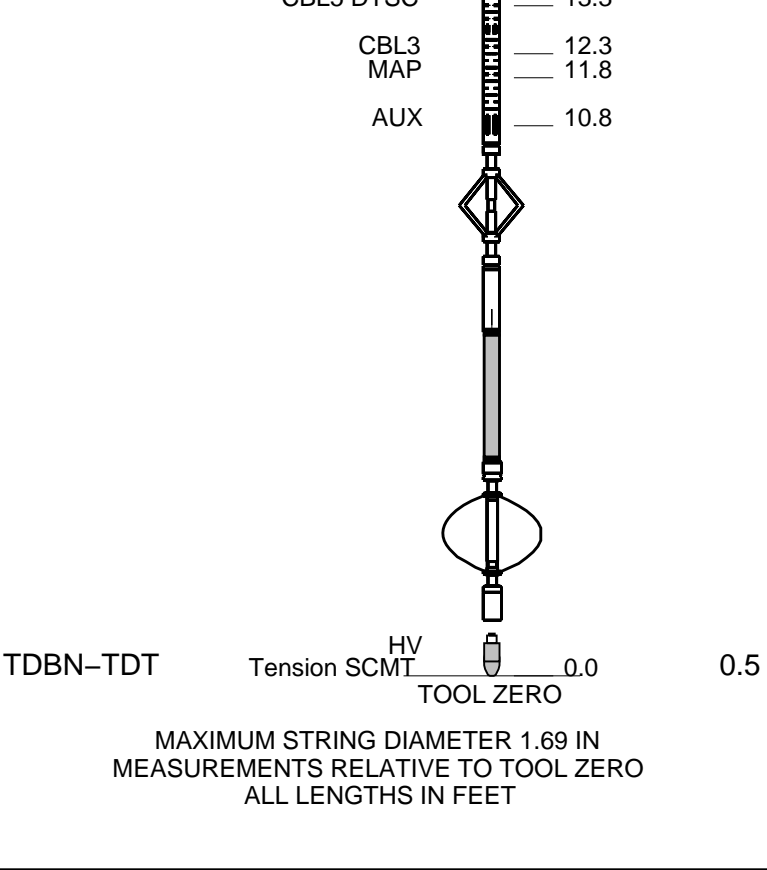
OTHER SERVICES1 OS1: NONE OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
NO CORRELATION LOG	
TIGHT SPOT AT 6170	
ESTIMATED CEMENT TOP AT 1030'	
REPEAT AND MAIN PASS RAN	

UNDER 0 PSI	
CREW: WILEY, HOFFMAN	
THANK YOU	

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

[illegible]

SURFACE EQUIPMENT			
WITM-A PSC_16MHZ			
DOWNHOLE EQUIPMENT			
MH-22 MH-22			34.4
AH-38	Detail MT TelStatus CTEM		32.9
PSPT PSC-A PSPT-A PSTC-A PBMS-A 10k_Sapphire_Mano RTD_Thermometer GR CCL PBMS			32.6 32.6
	GR		28.9
	Well_Temp Manometer CCL PBMS PSTC		25.8 25.7 25.1 24.3
SCMT-CB SCMC-CA SECH-CA TTG-F SCMS-CB 8258 SCMX-CA AH-278 TTG-C			24.3
	DT		14.8
	CBI 5 DTSC		13.3



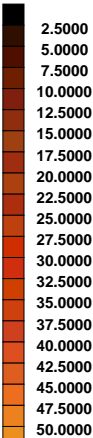
Company: CHESAPEAKE OPERATING, INC. Well: STATE 8-60-16-2

Input DLIS Files					
DEFAULT	SCMT_PSP_004LUP	FN:3	PRODUCER	06-Feb-2012 13:15	6402.5 FT 35.6 FT
Output DLIS Files					
DEFAULT	SCMT_PSP_008PUP	FN:7	PRODUCER	06-Feb-2012 14:50	6402.5 FT 36.0 FT

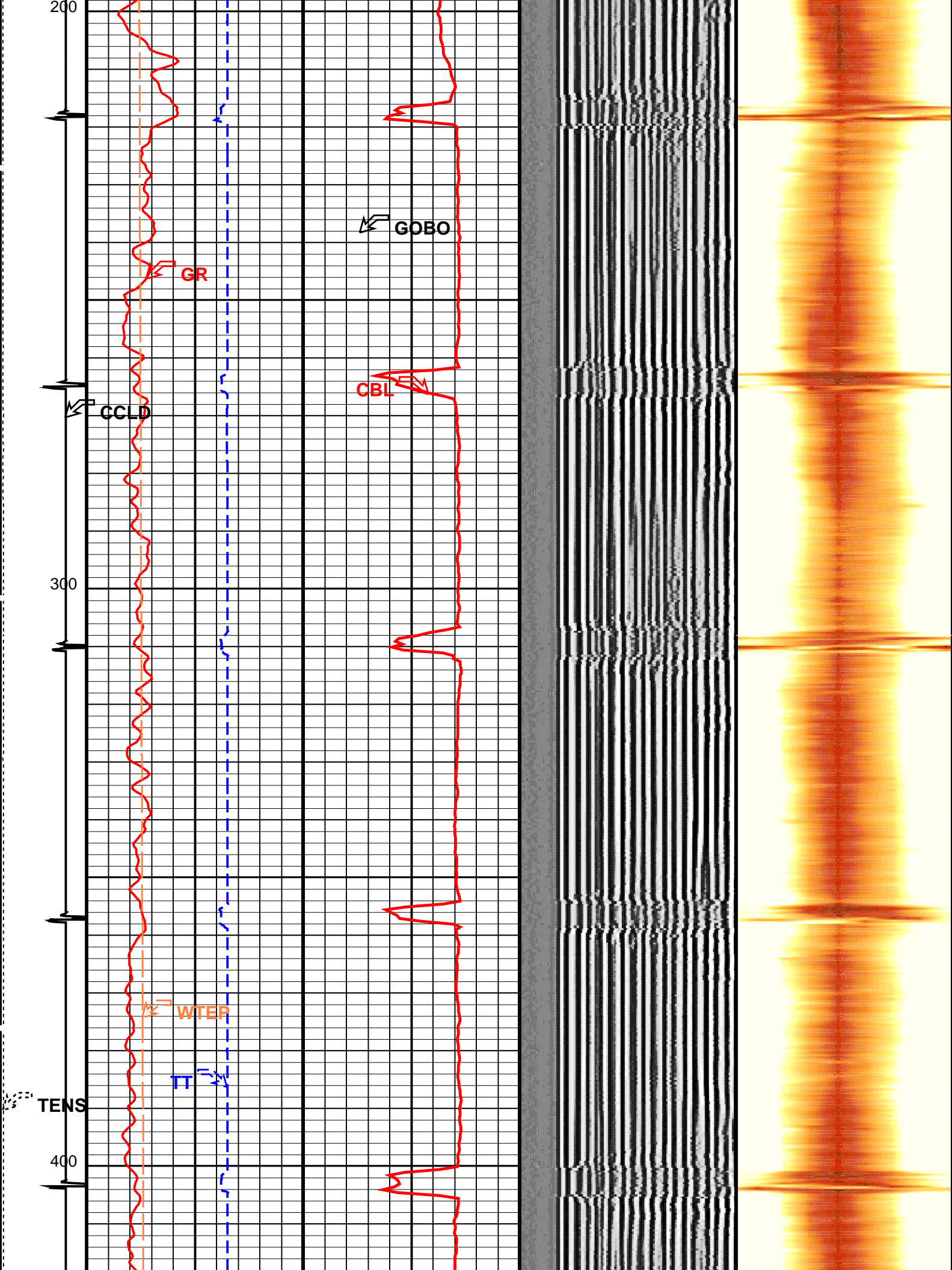
OP System Version: 19C0-187			
SCMT-CB	19C0-187	PSPT	19C0-187

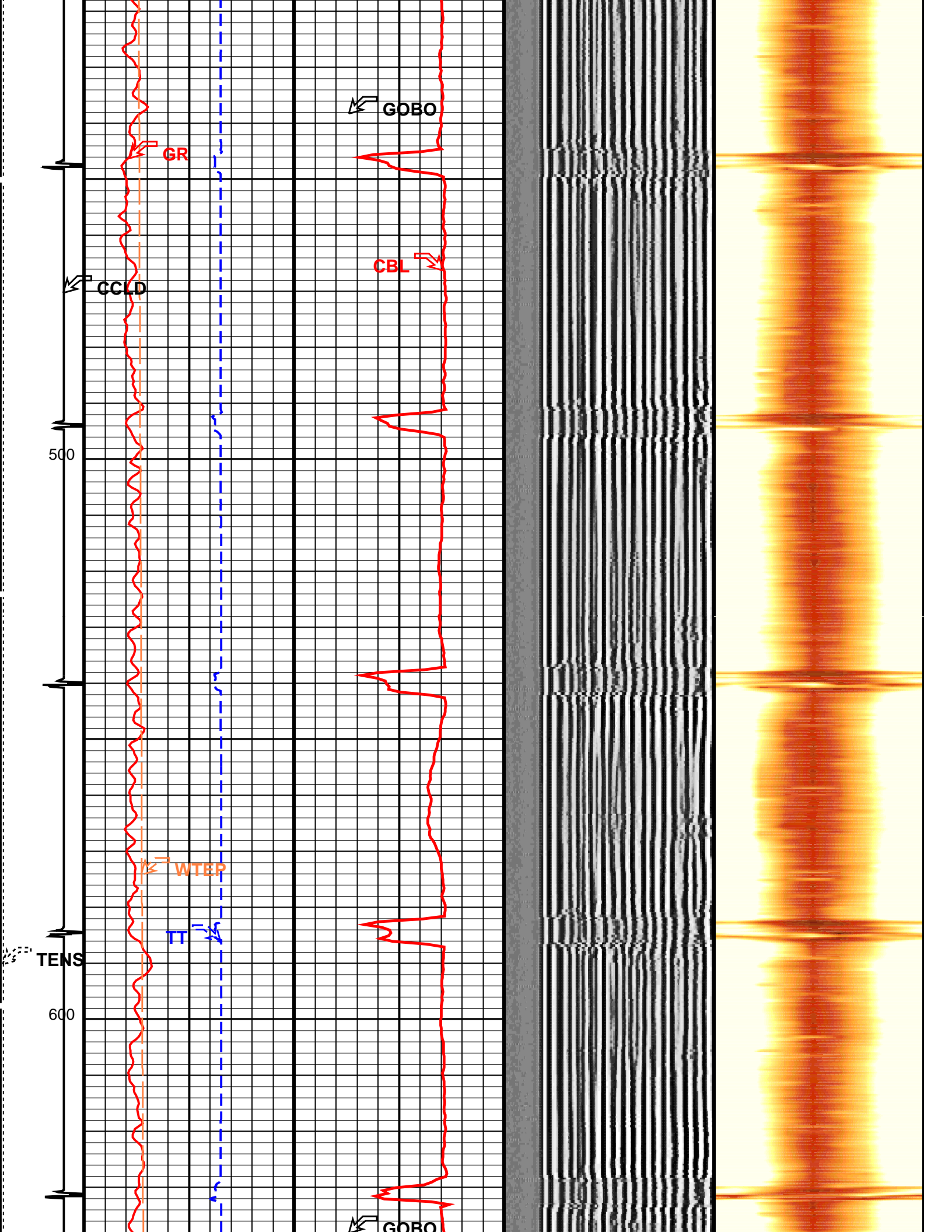
PIP SUMMARY

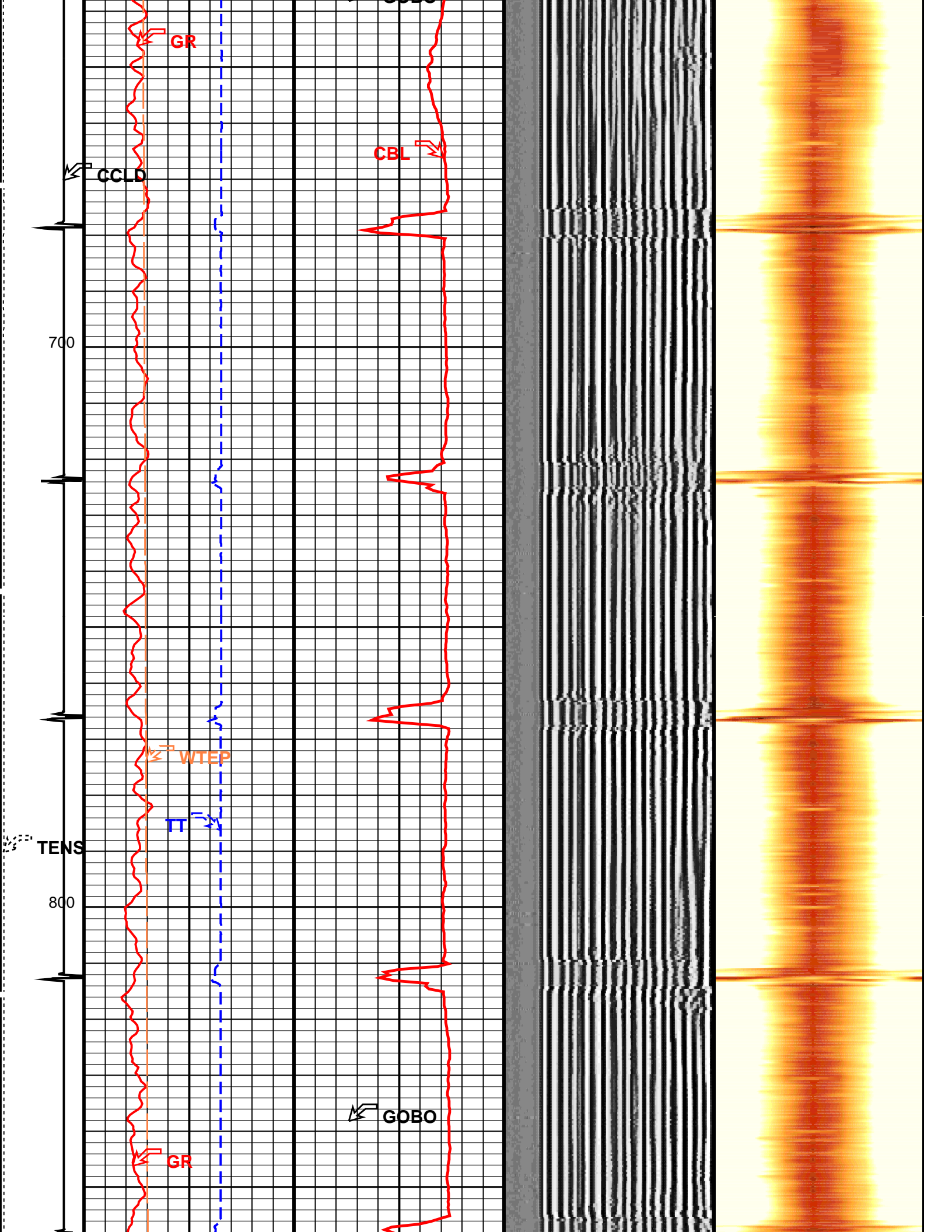
Time Mark Every 60 S		Well Temperature (WTEP) (DEGF) 0 250		GoodBond From ACBL to GOBO		MAIN PASS	
Discriminated CCL (CCLD) 3 (V) -1		Transit Time (TT) (US) 400 200		CBL Amplitude (CBL) (MV) 0 100		CASING PRESSURE 0 PSI	

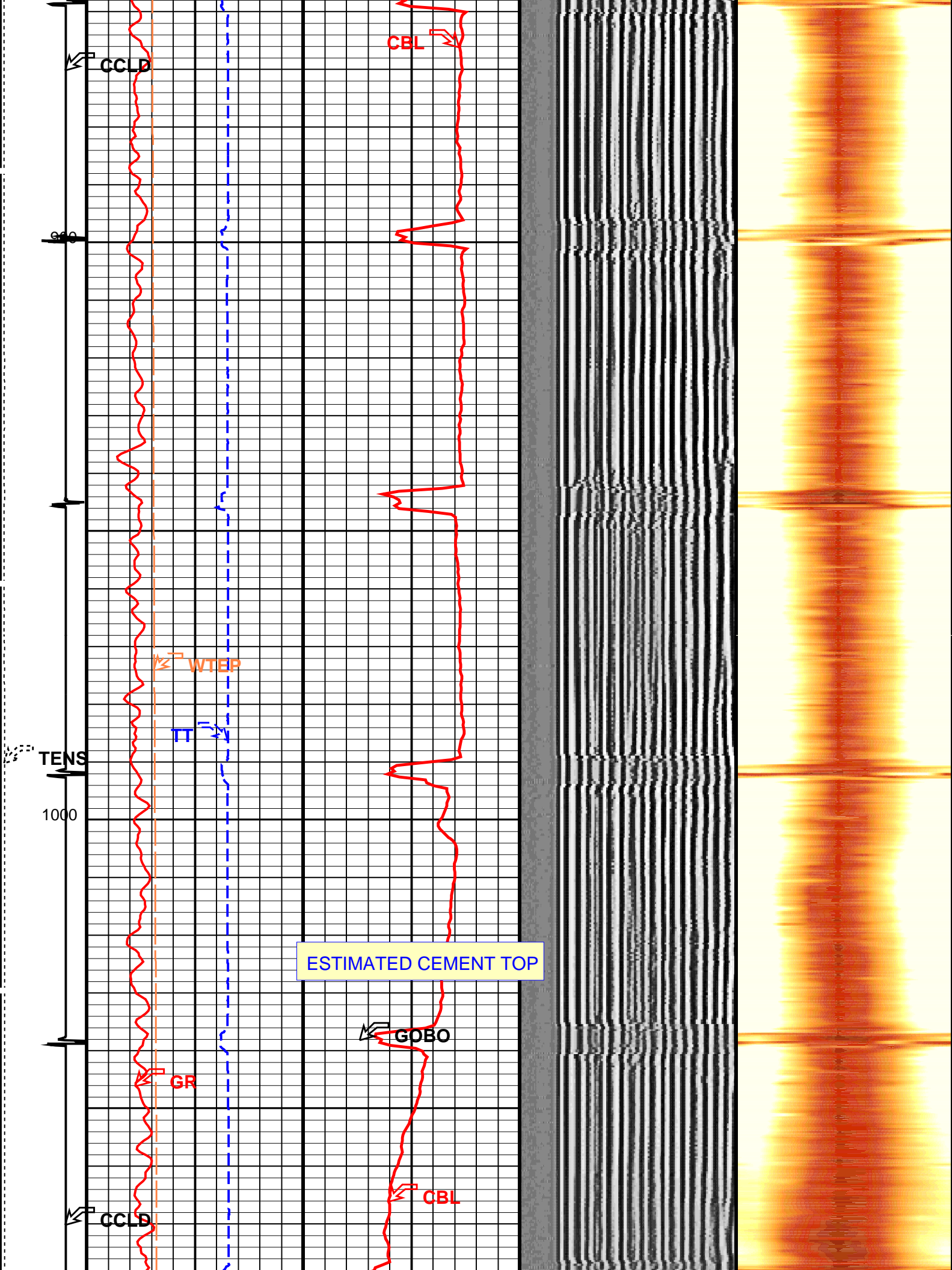


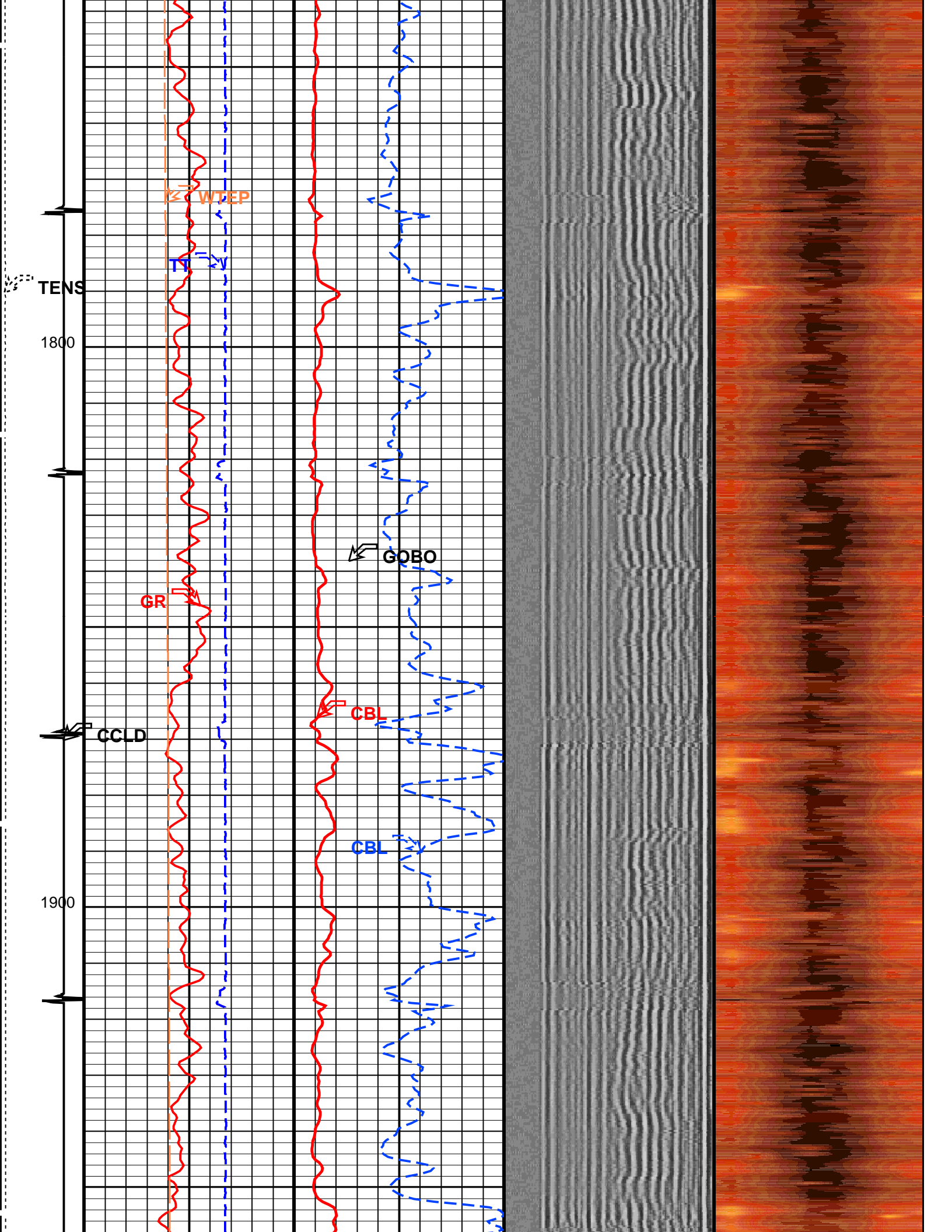
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	55.0000
	57.5000
	60.0000
	62.5000
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	67.5000
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	100.0000

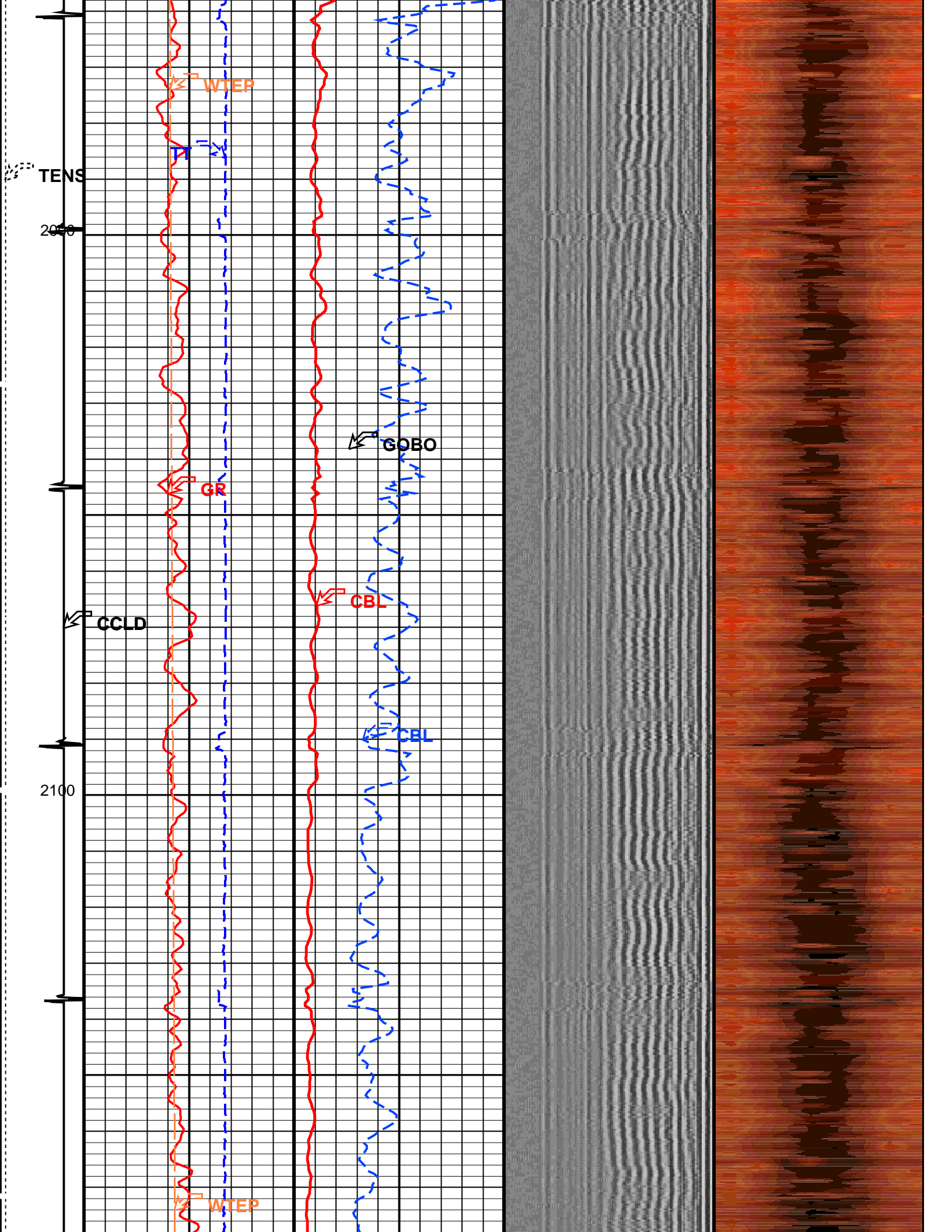


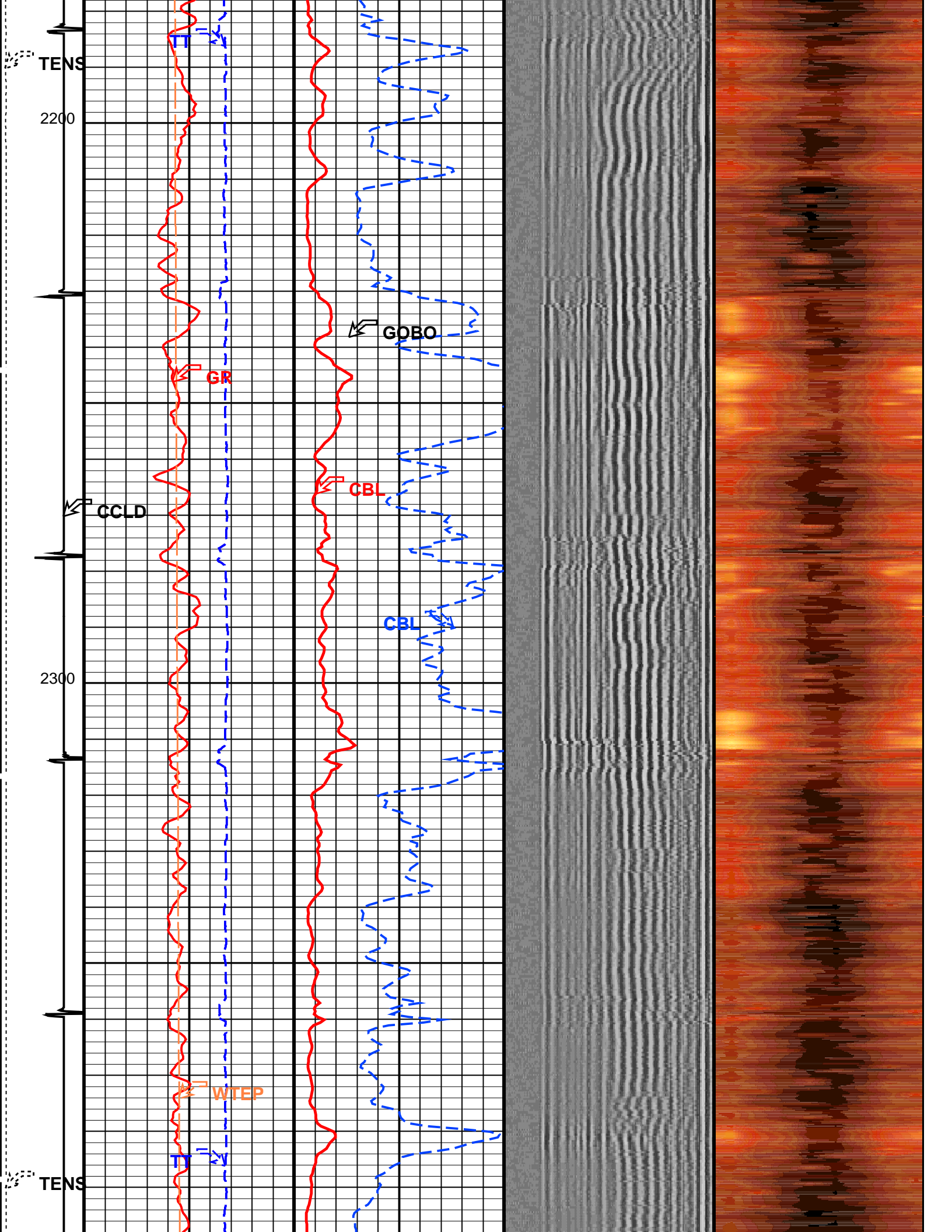


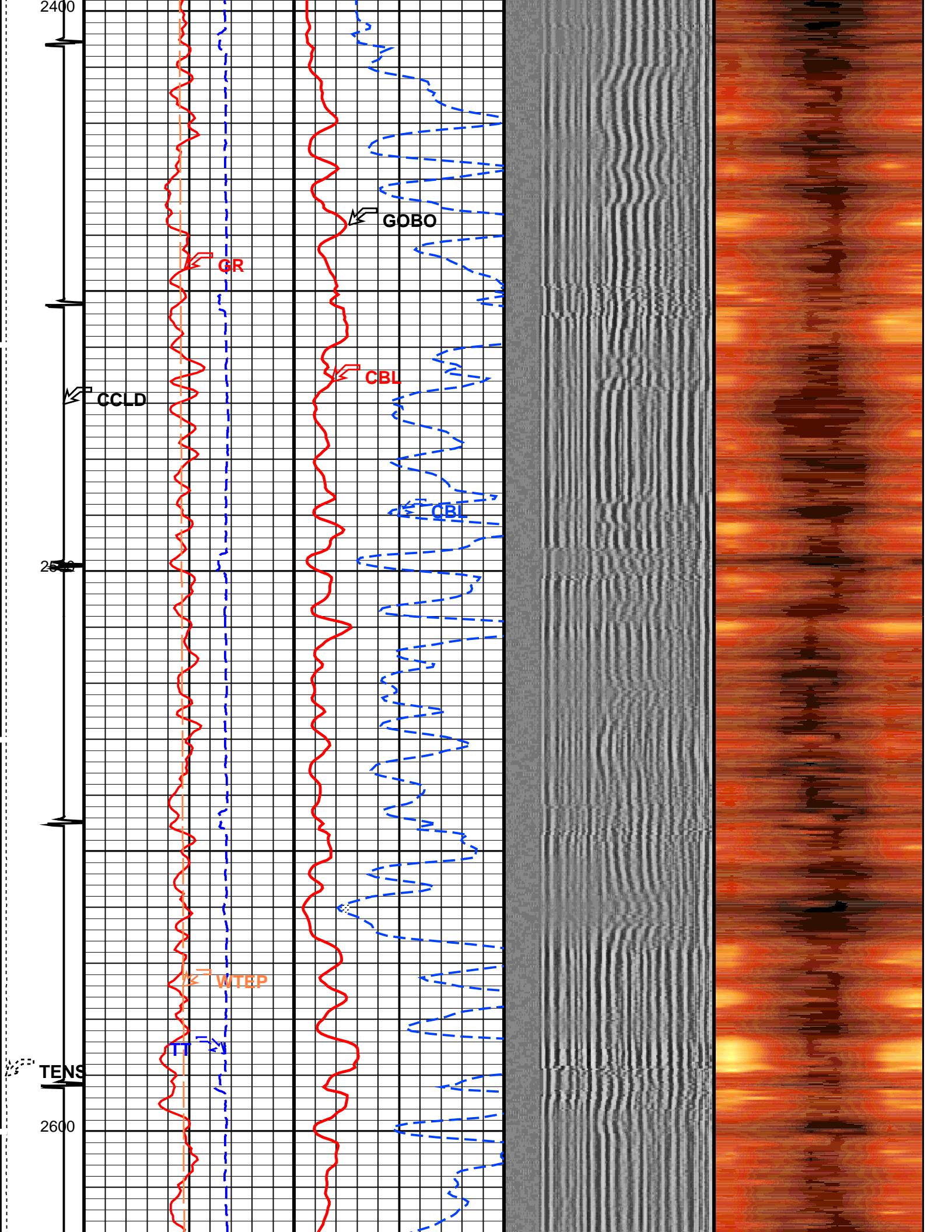


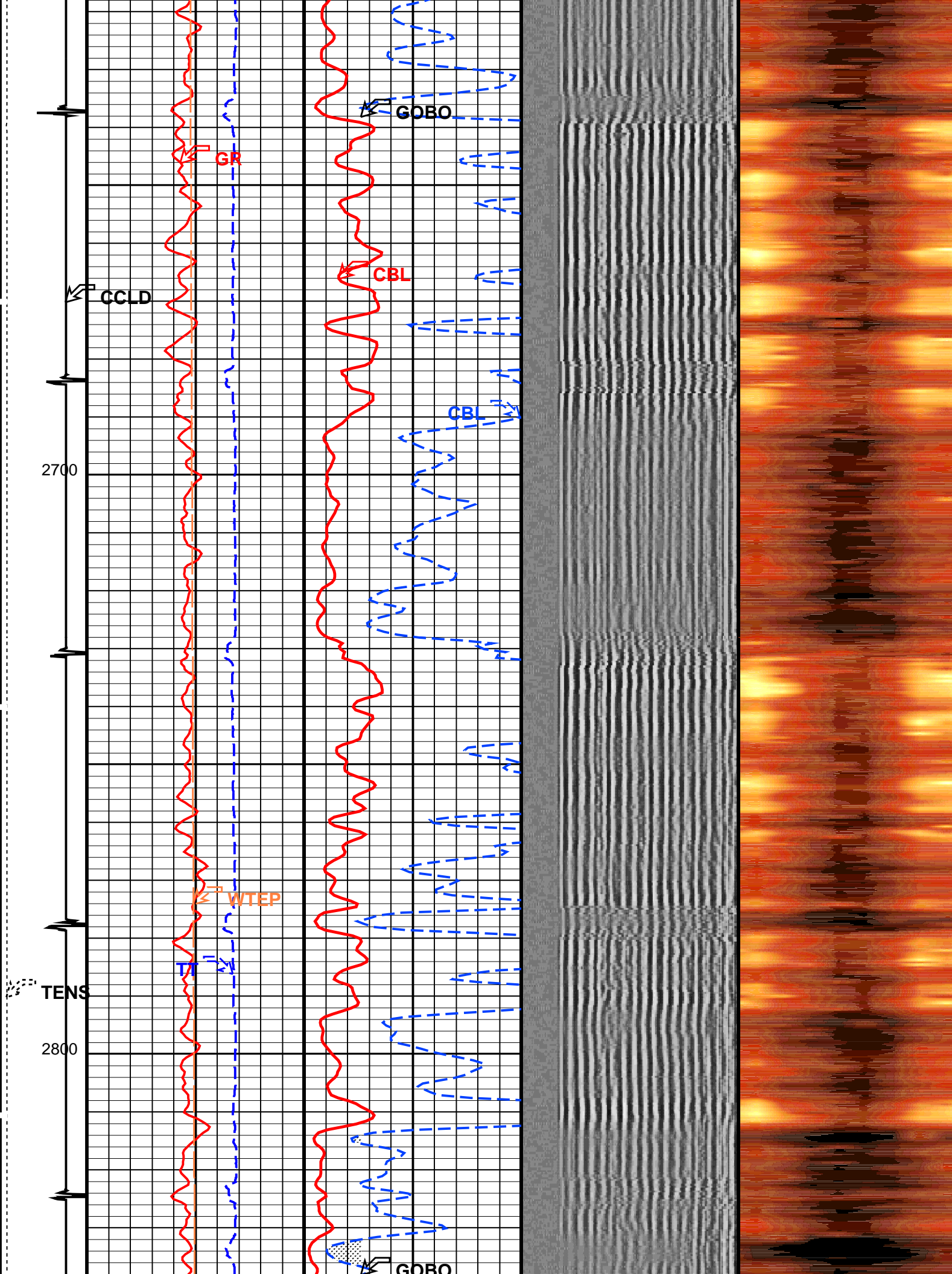


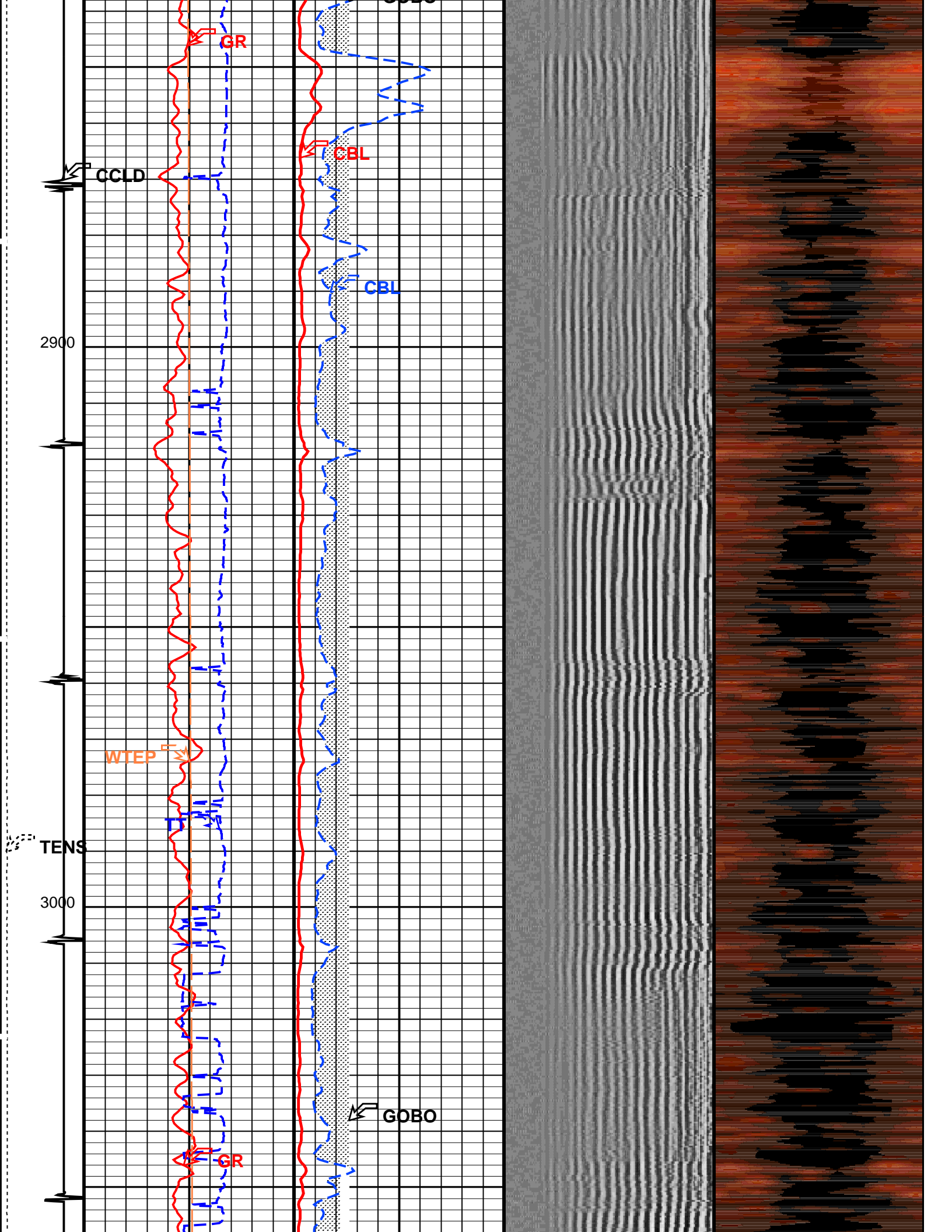


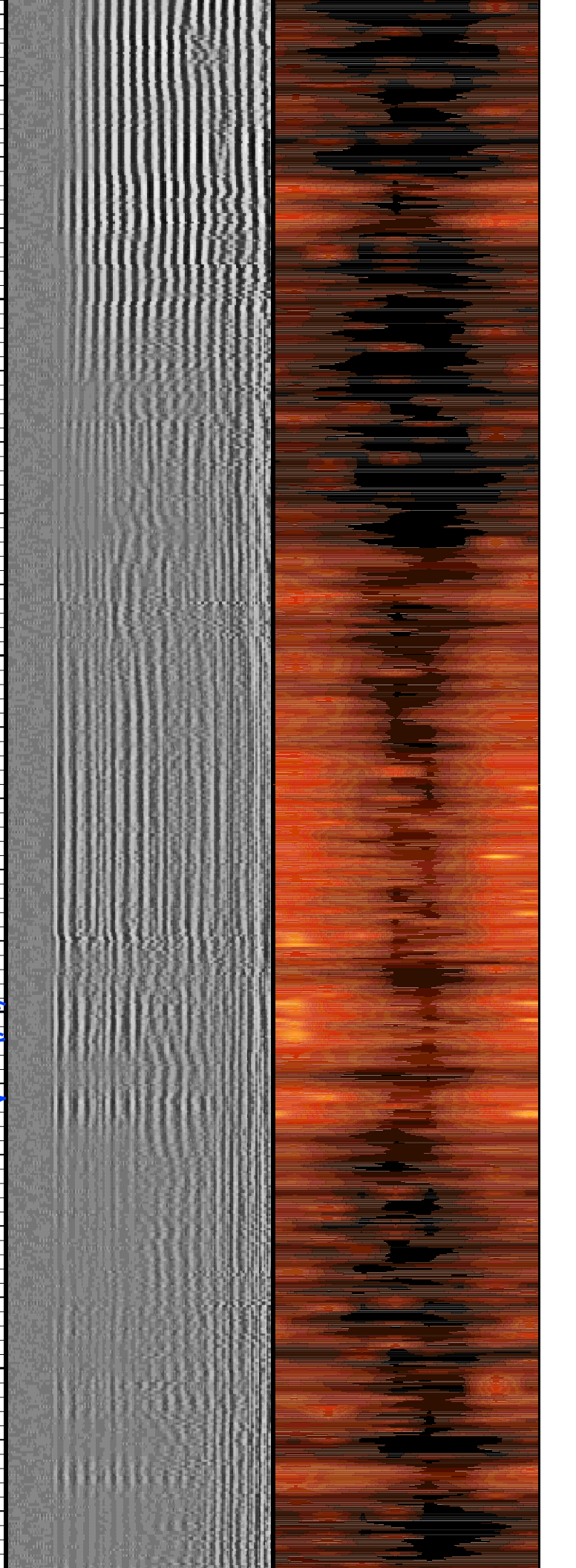
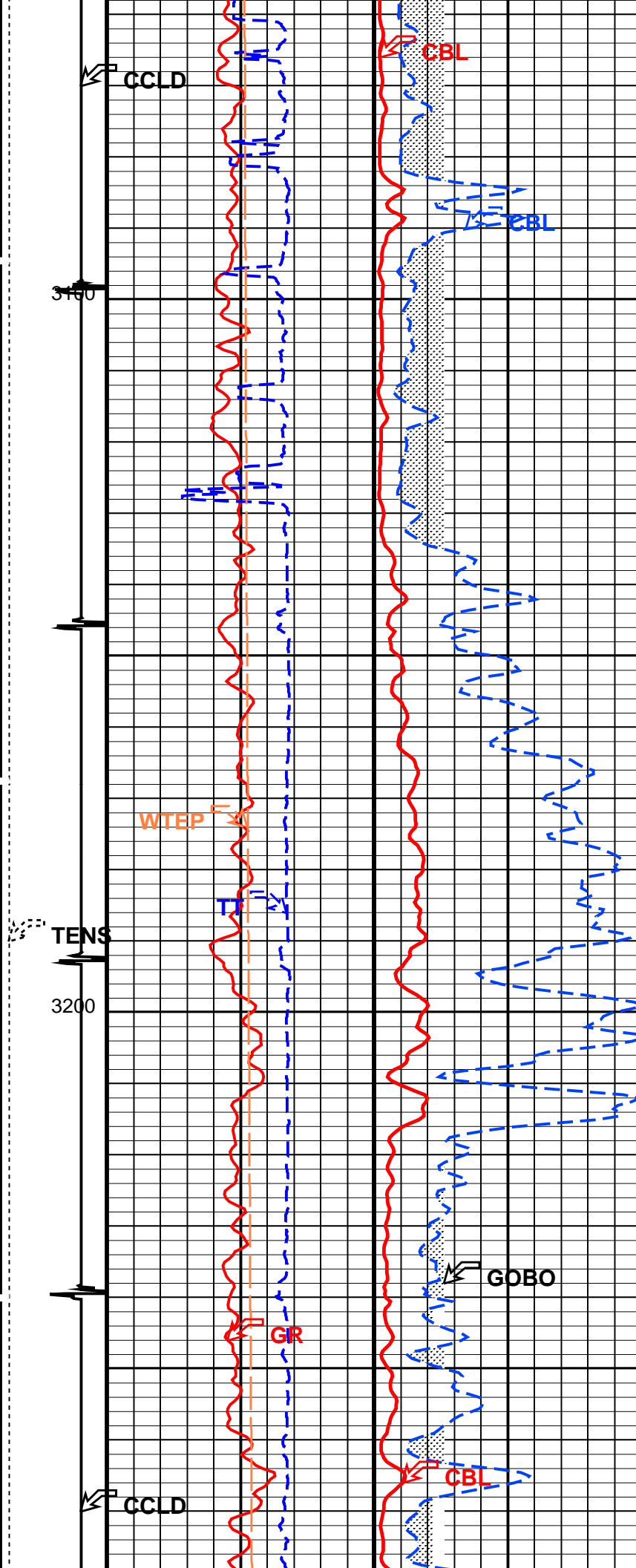


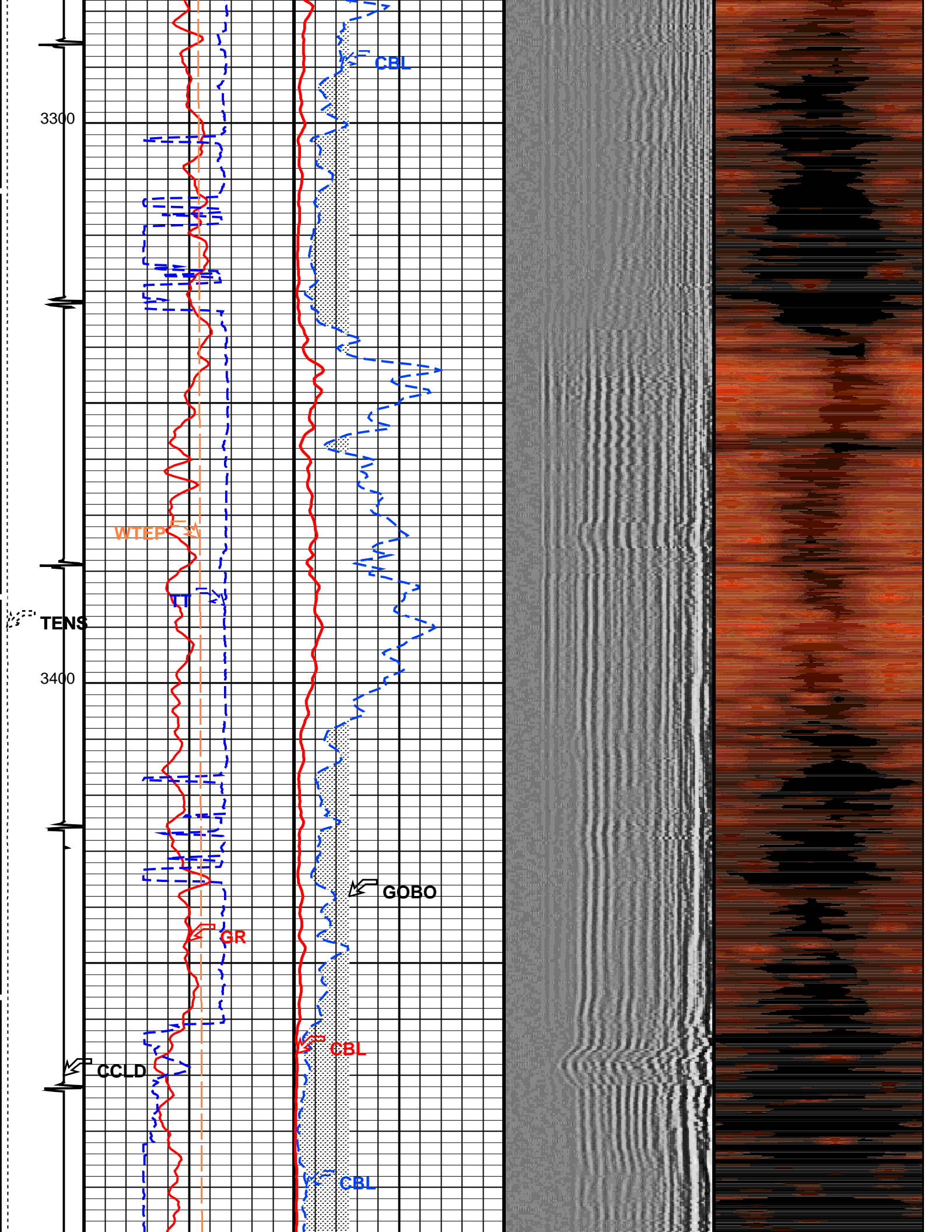


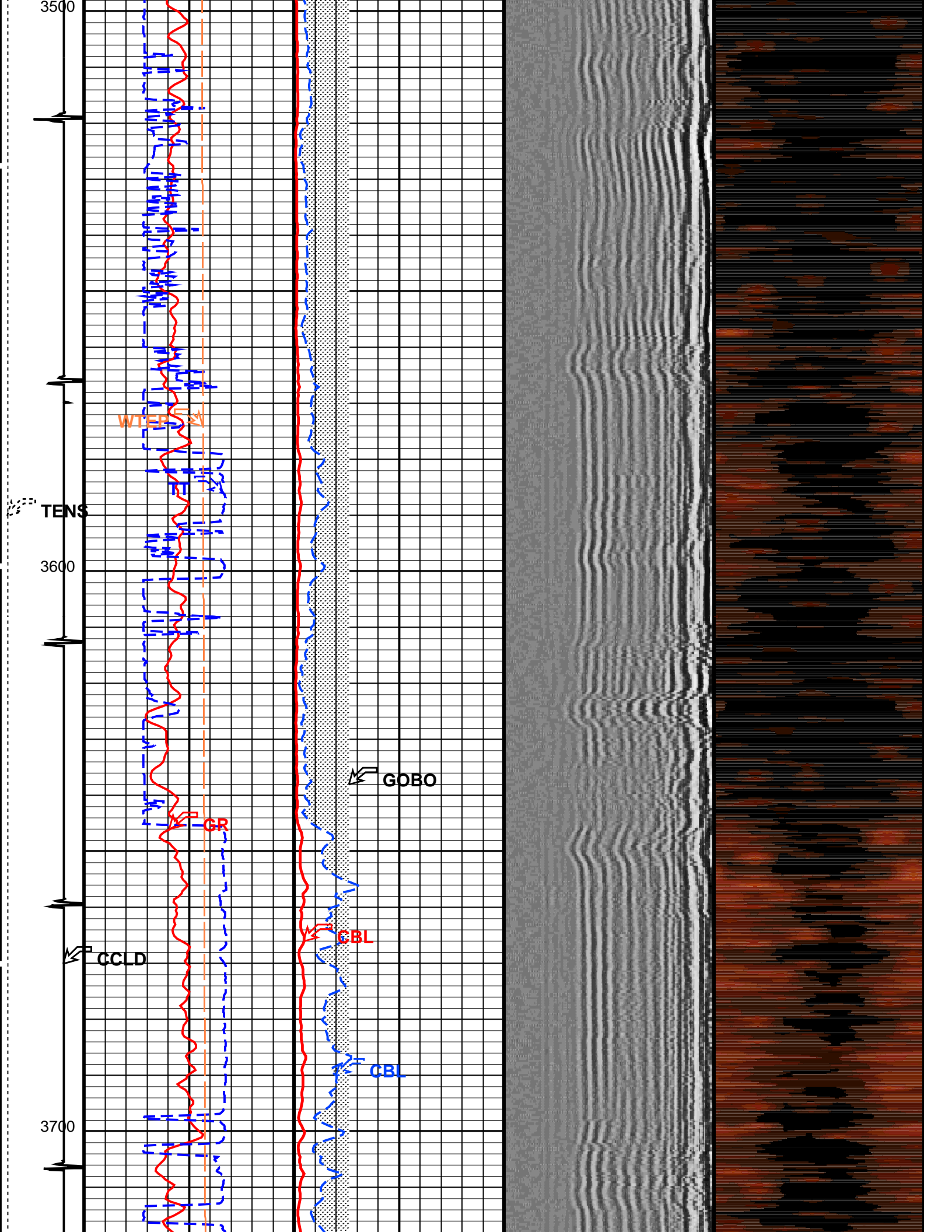


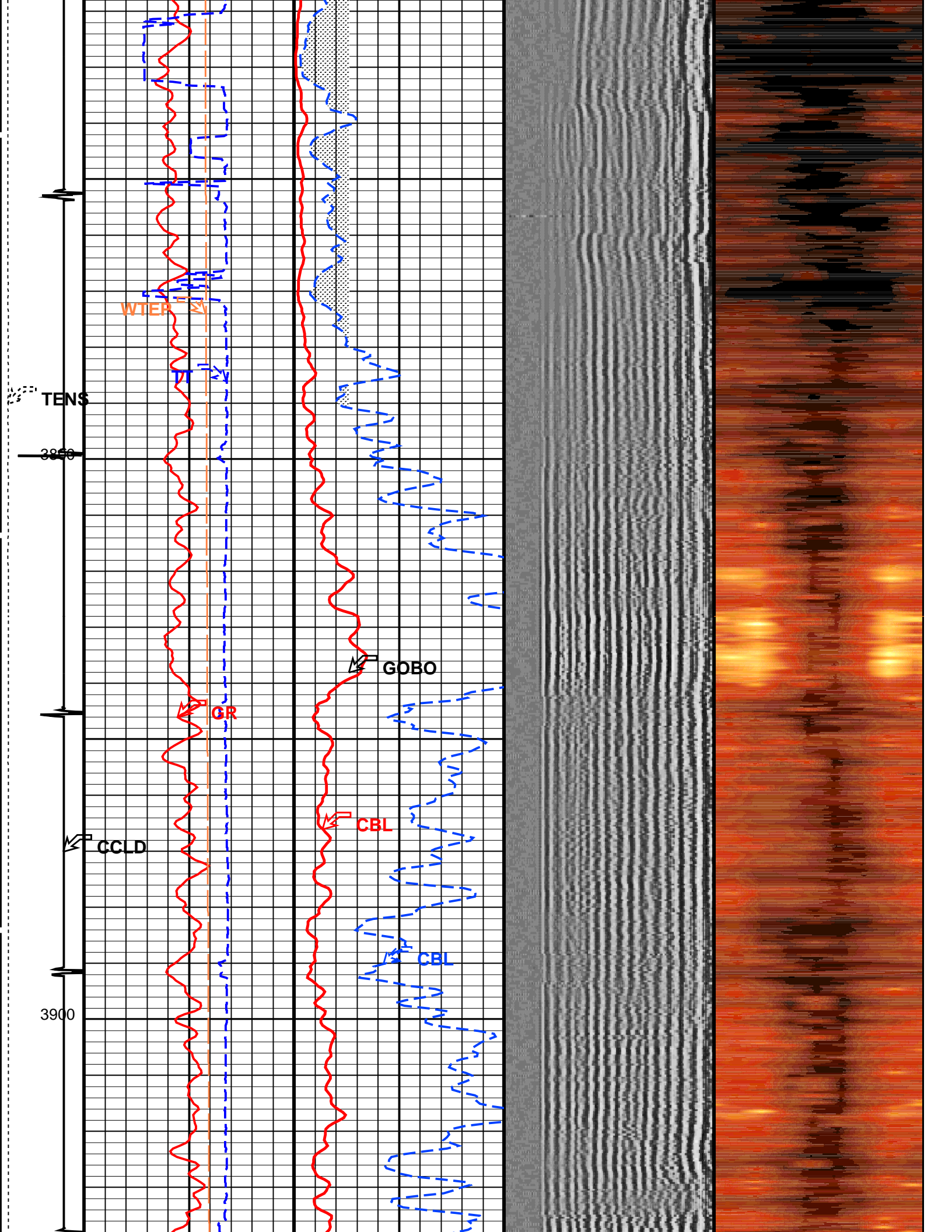


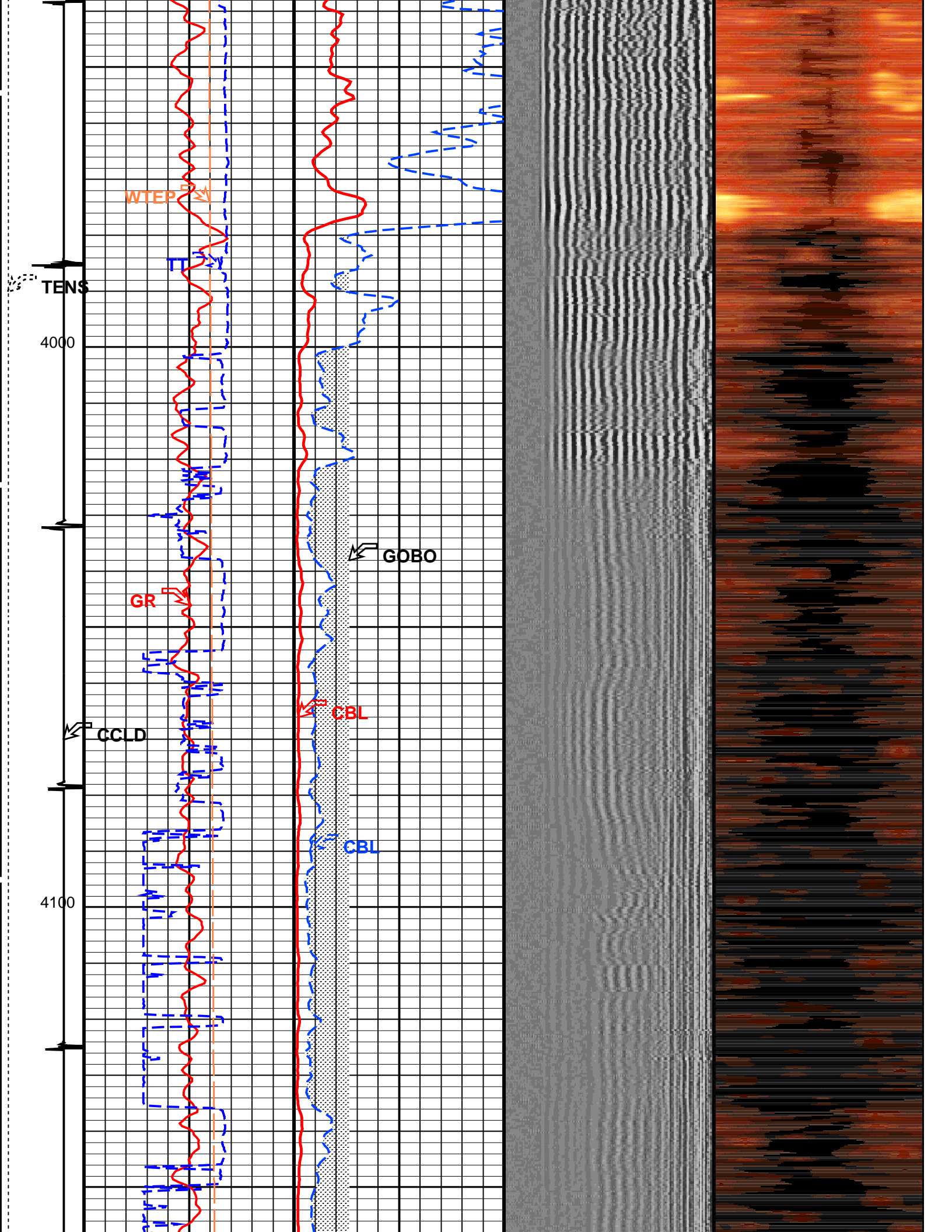


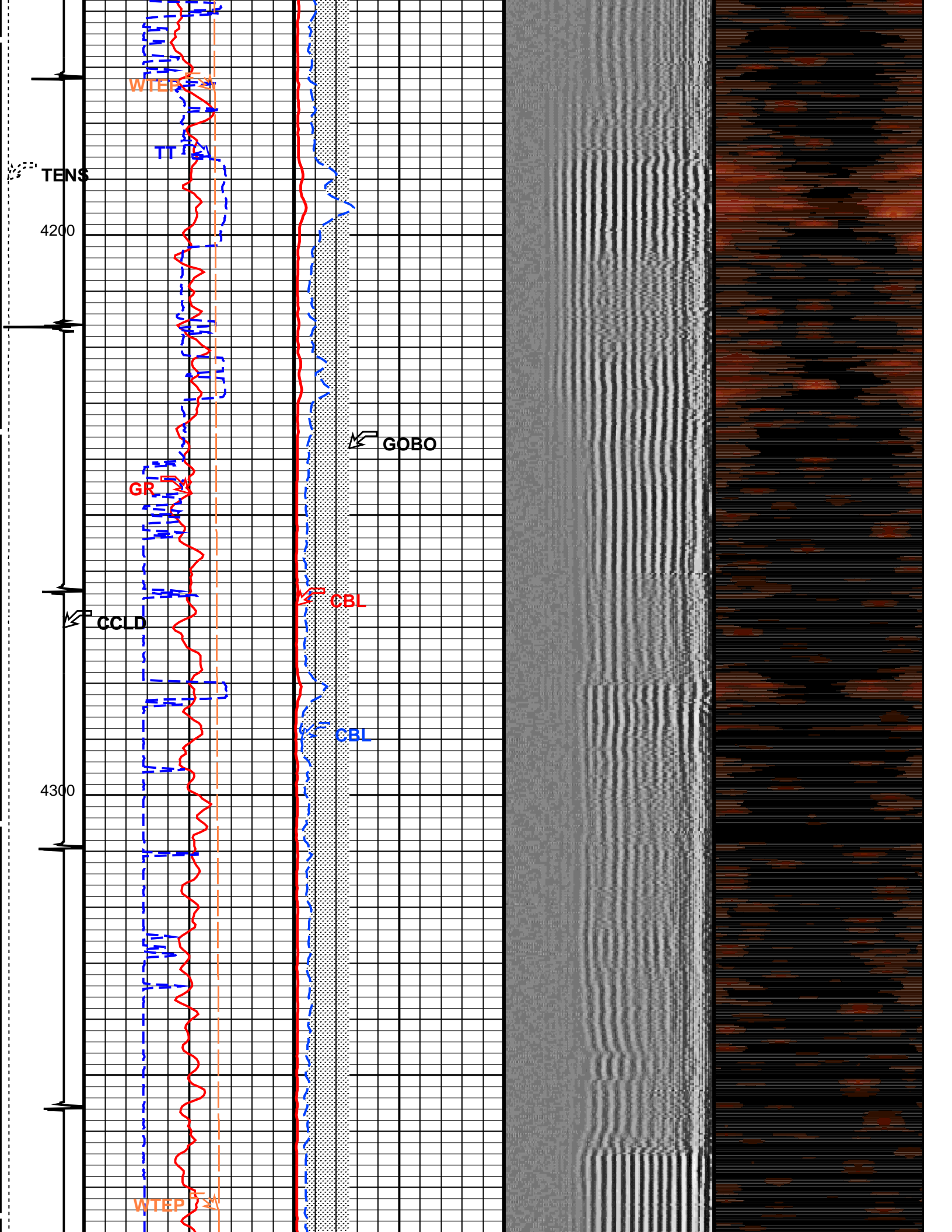


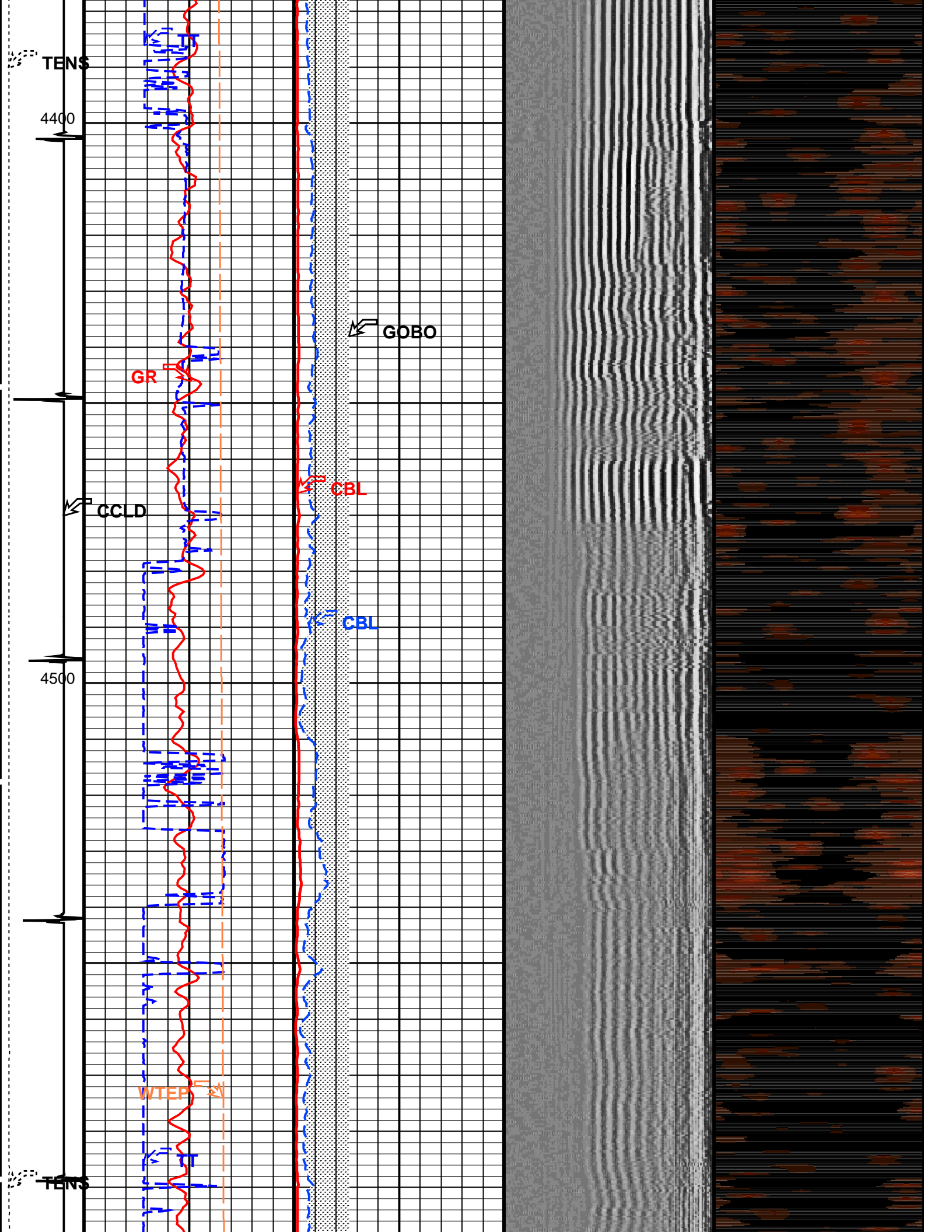


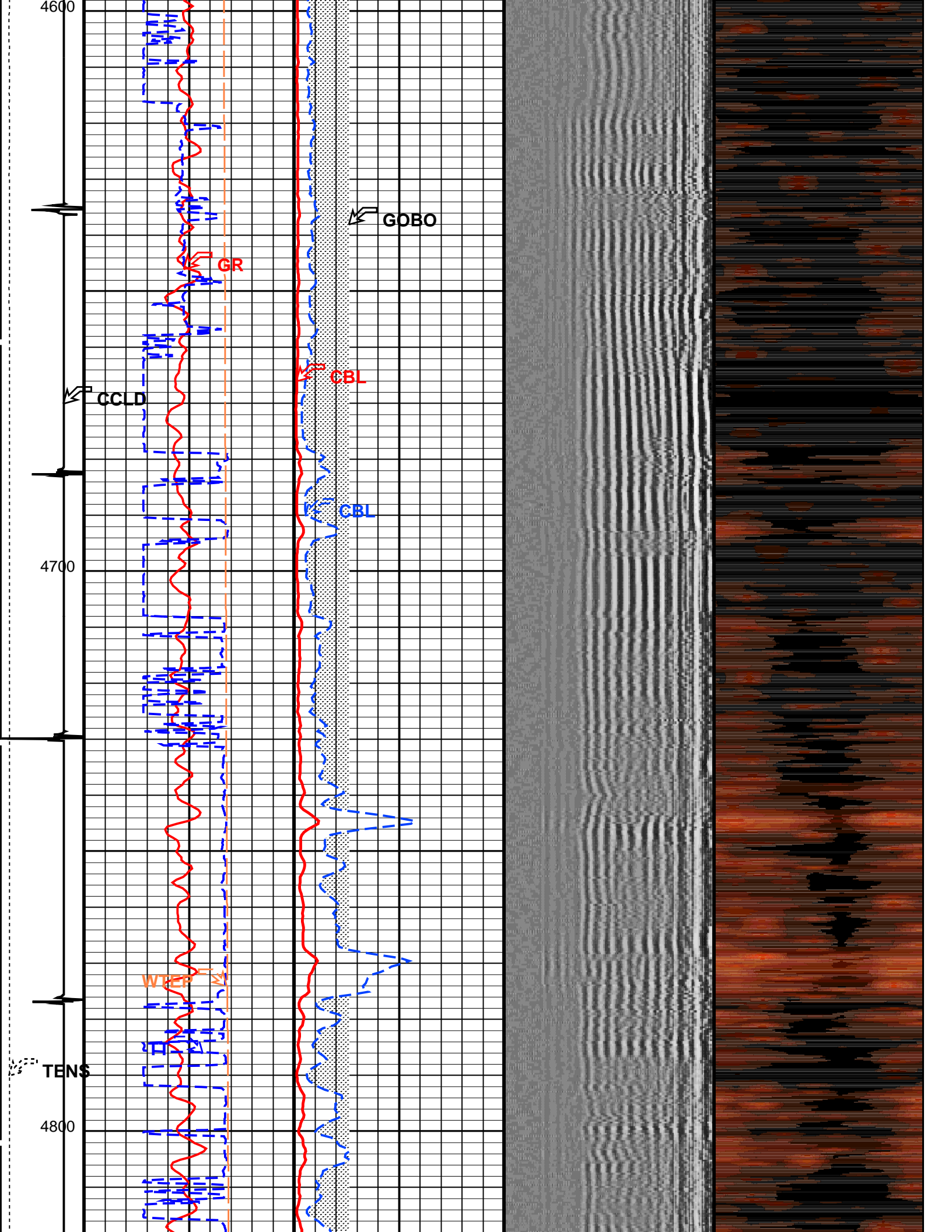


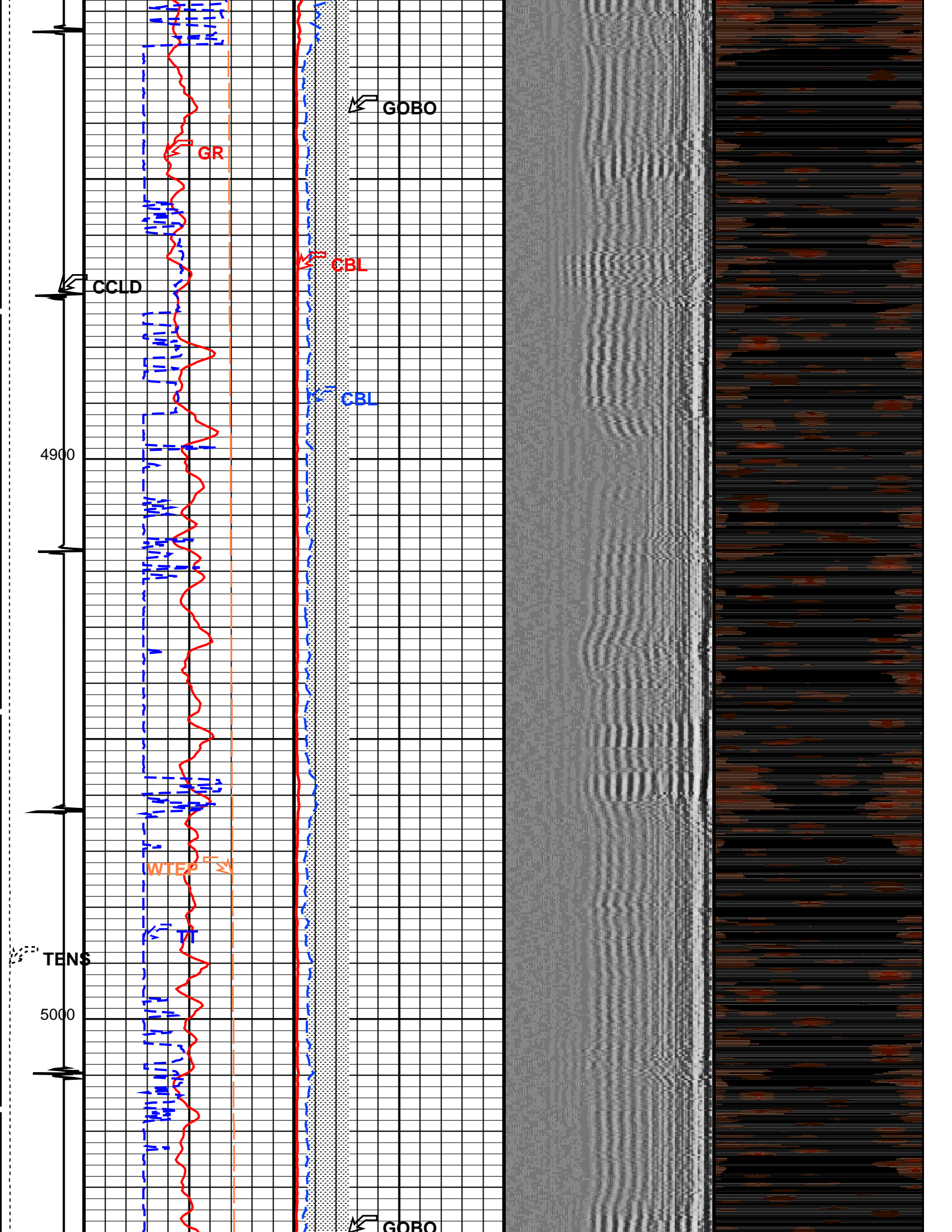


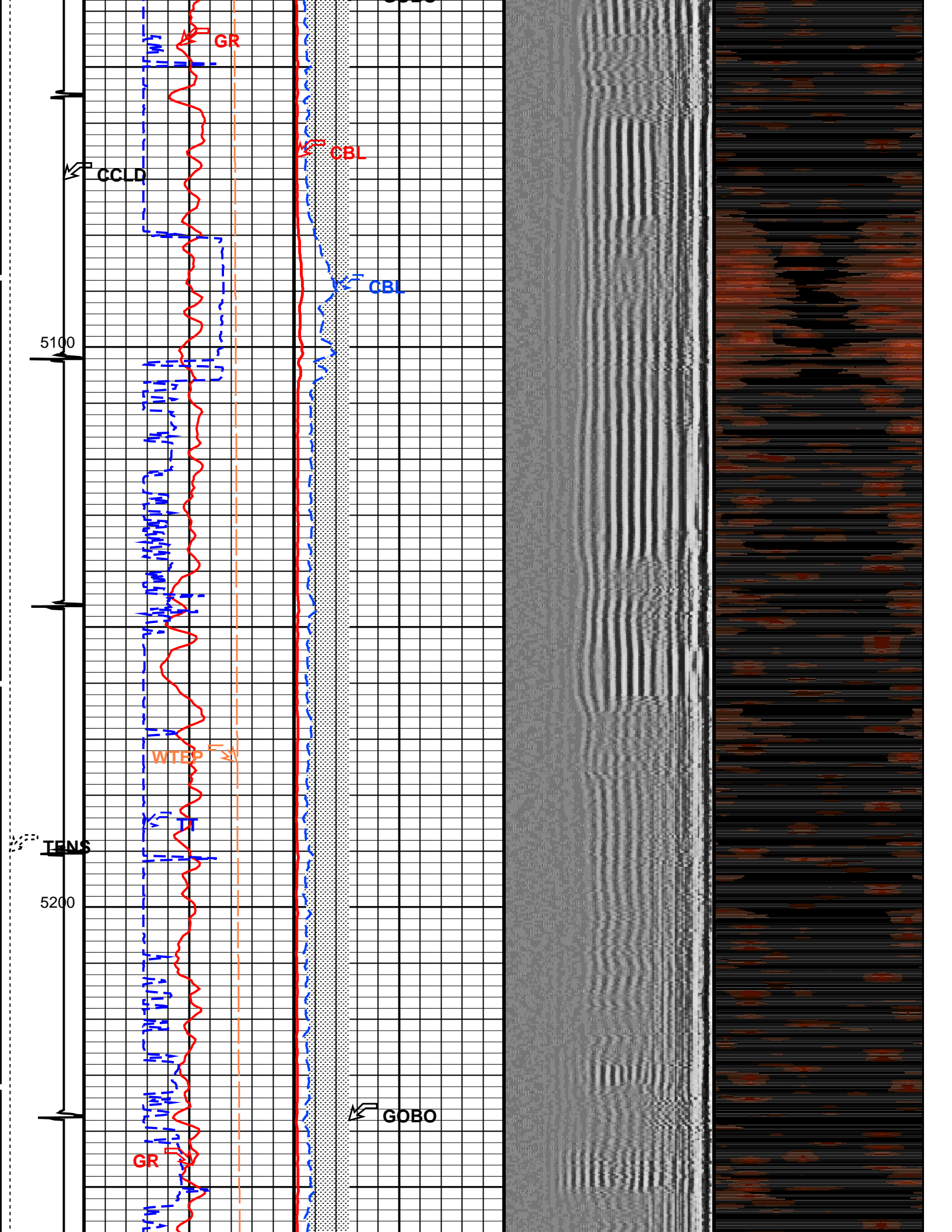


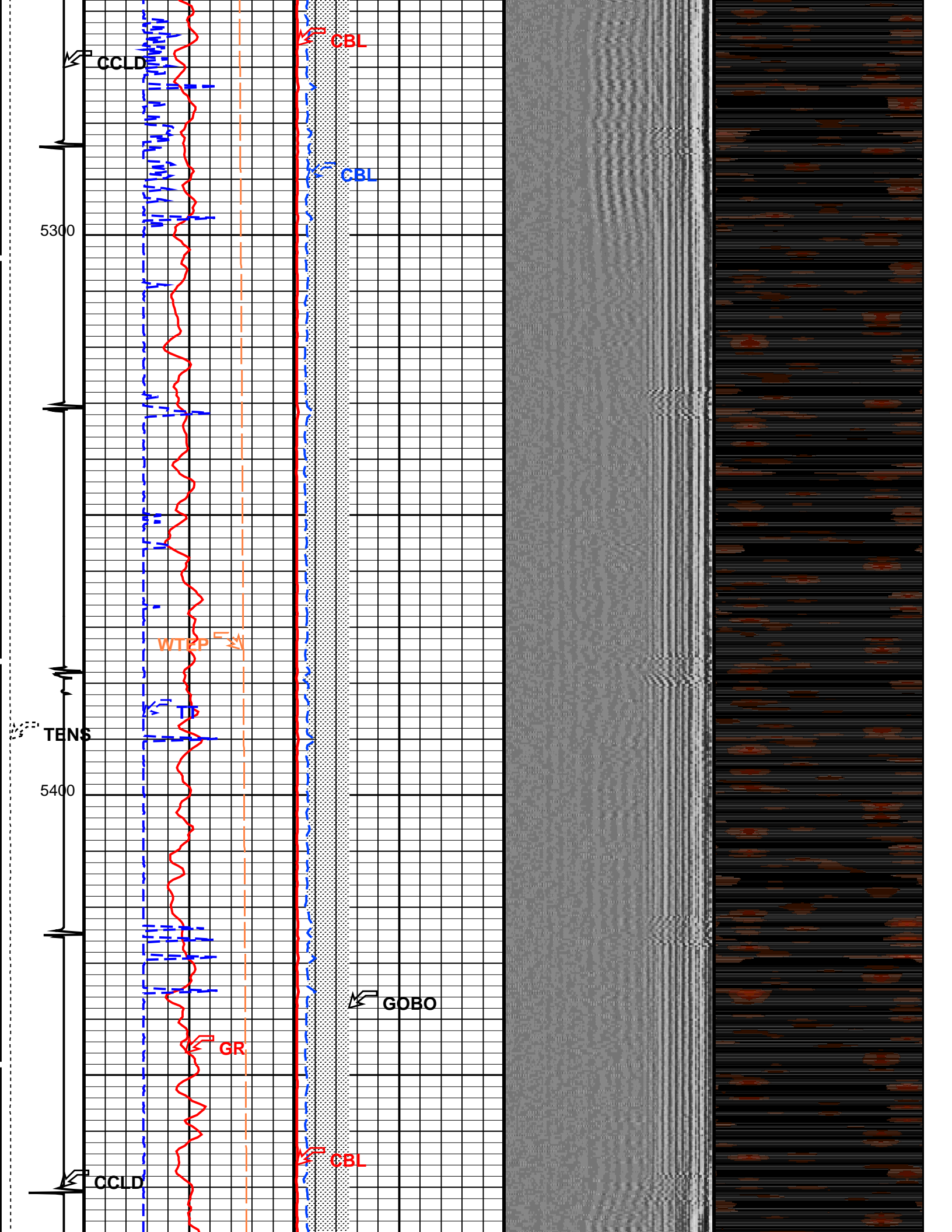


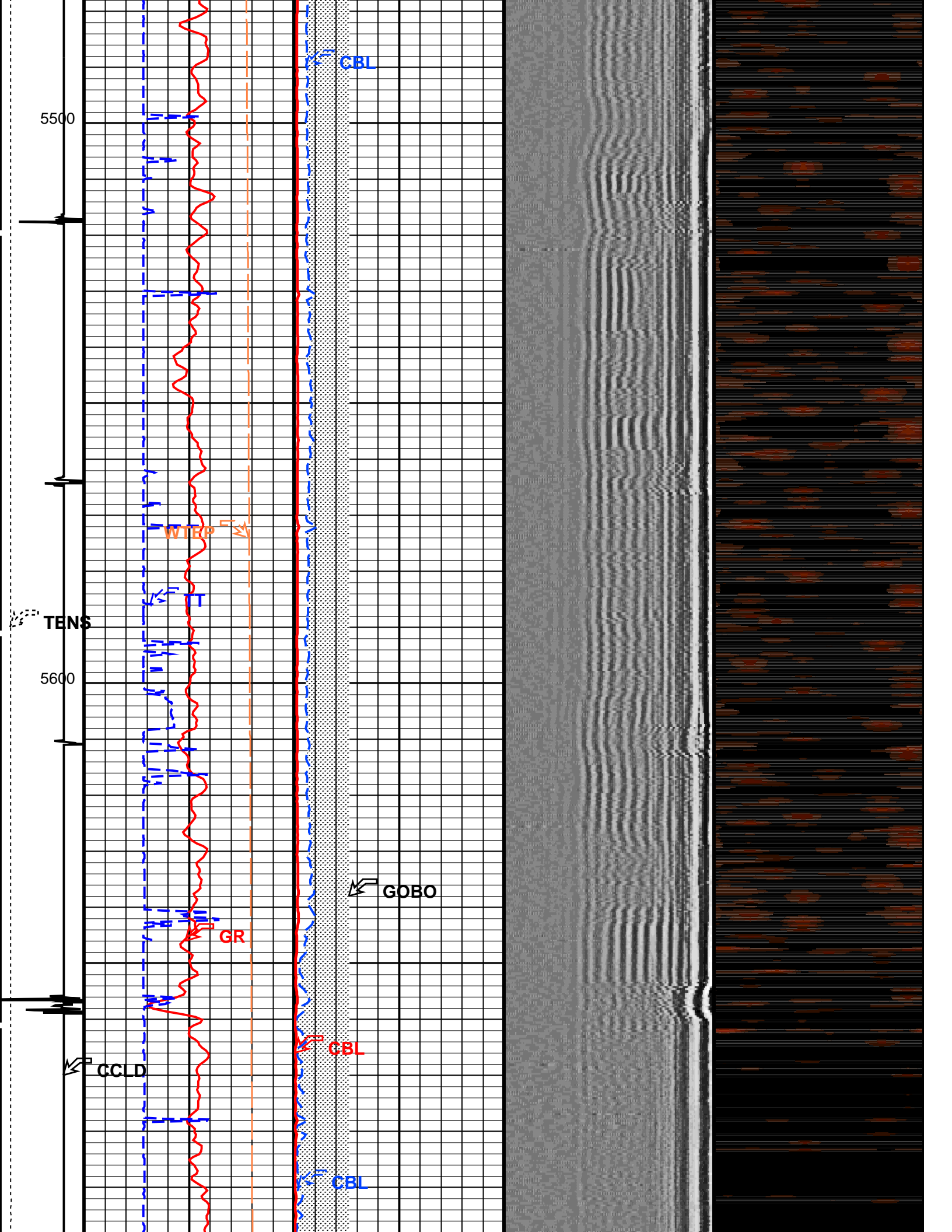


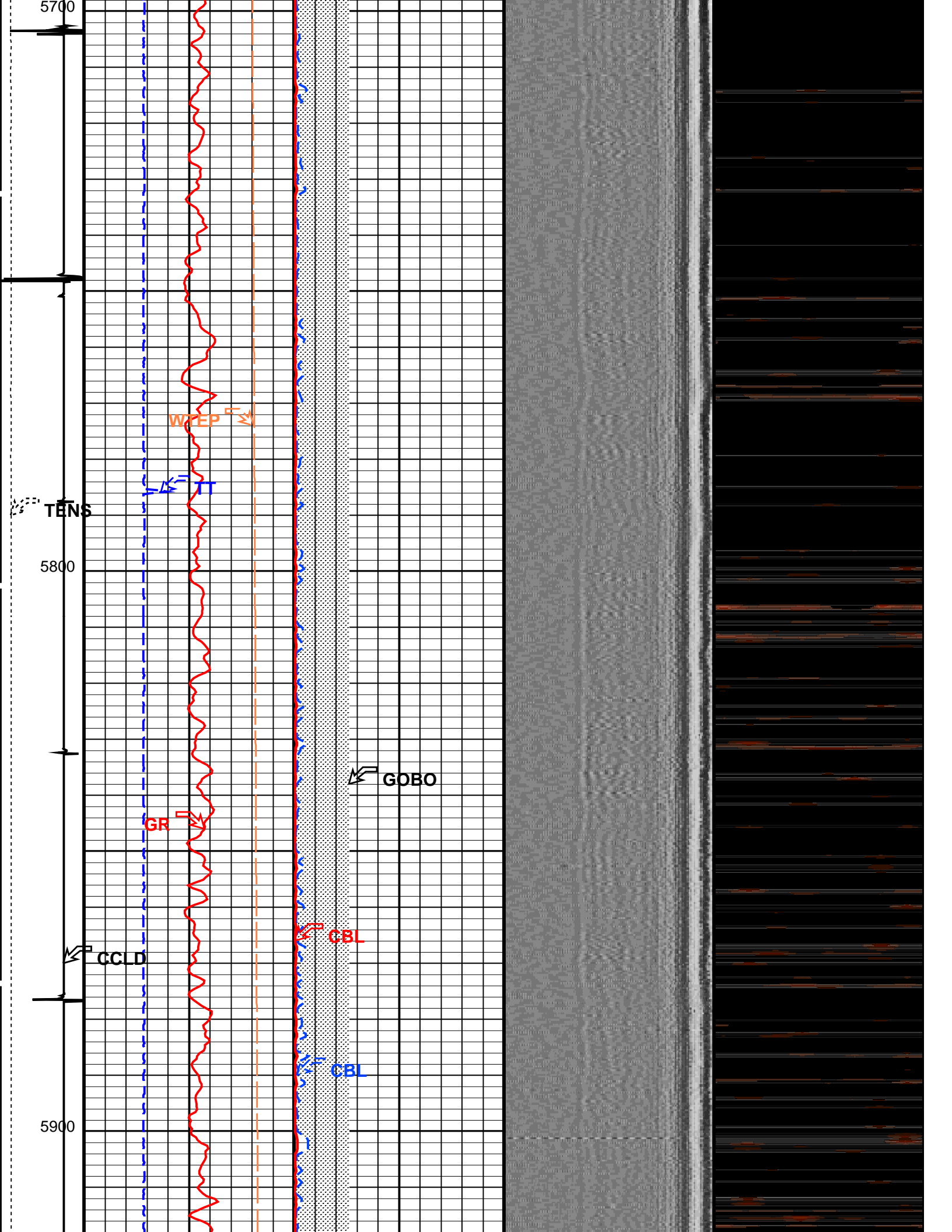


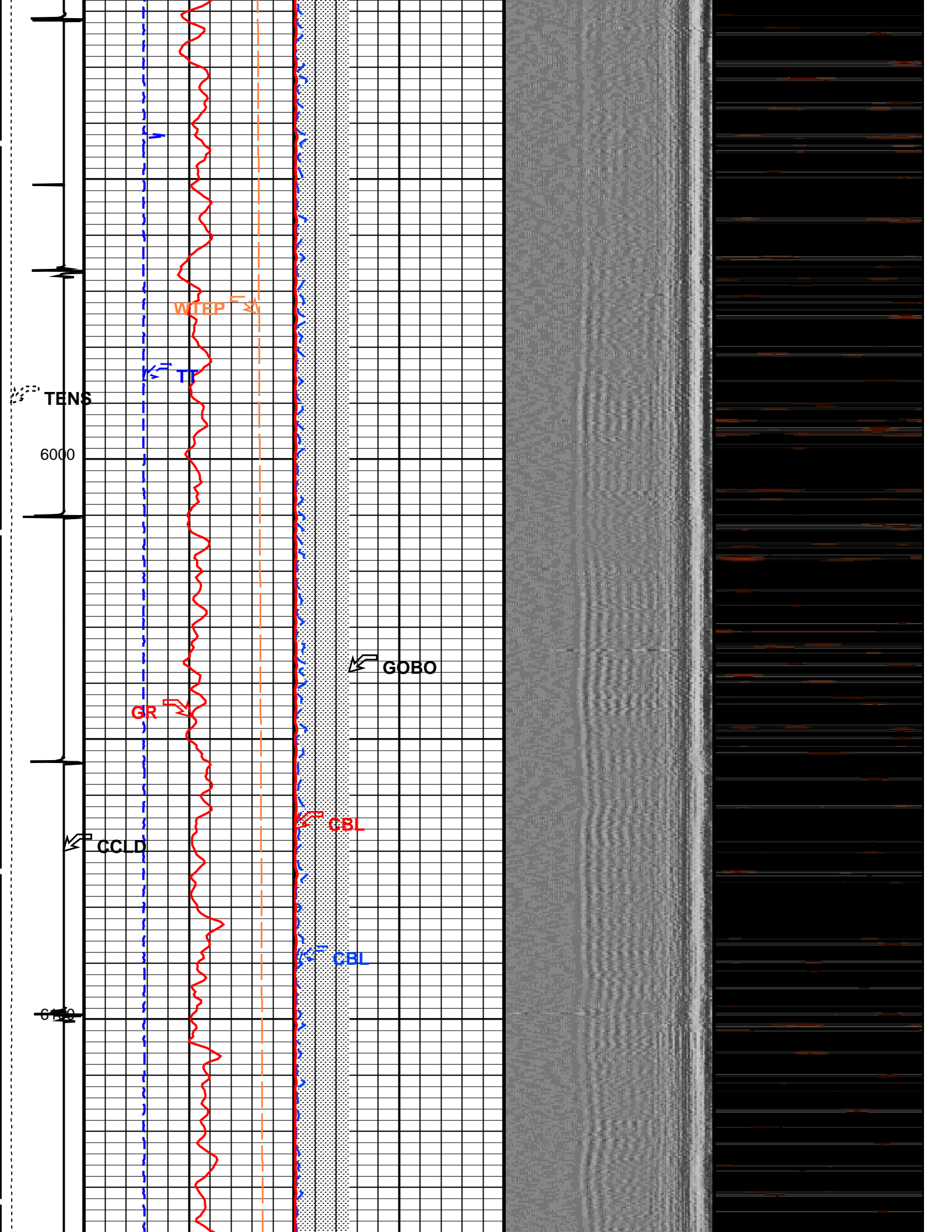


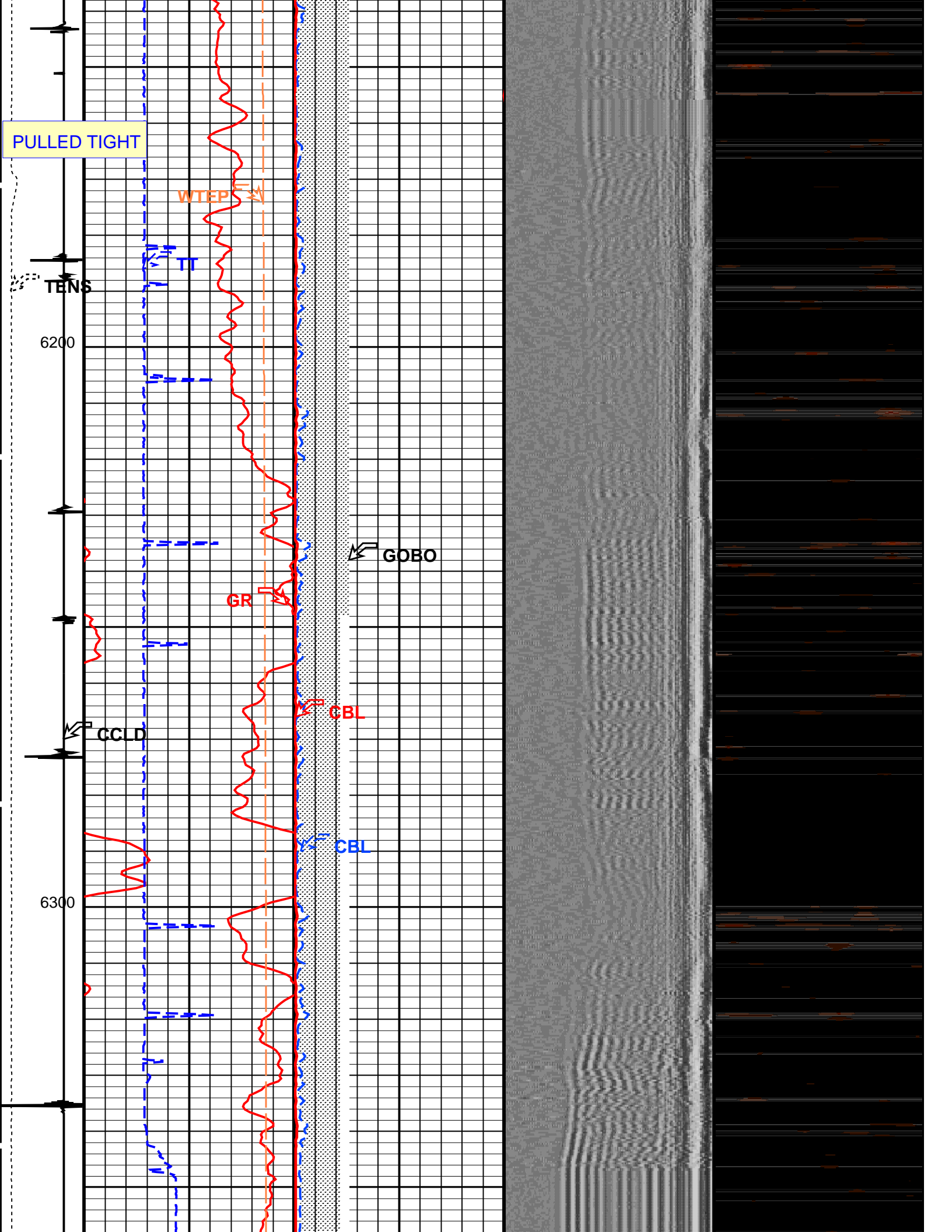


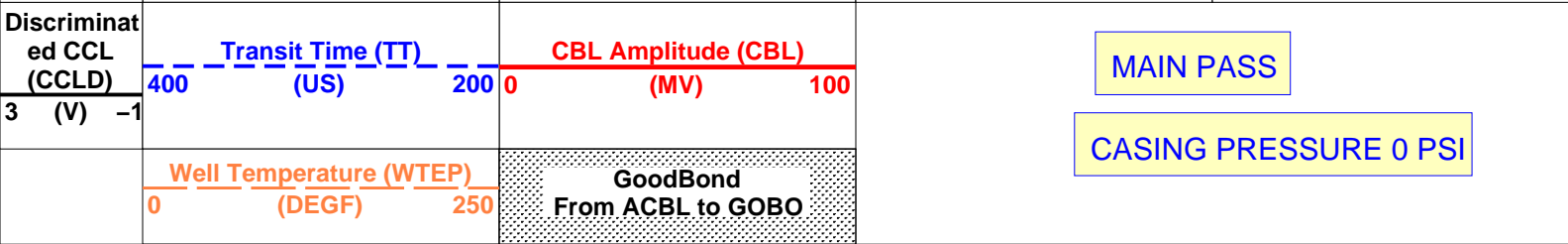
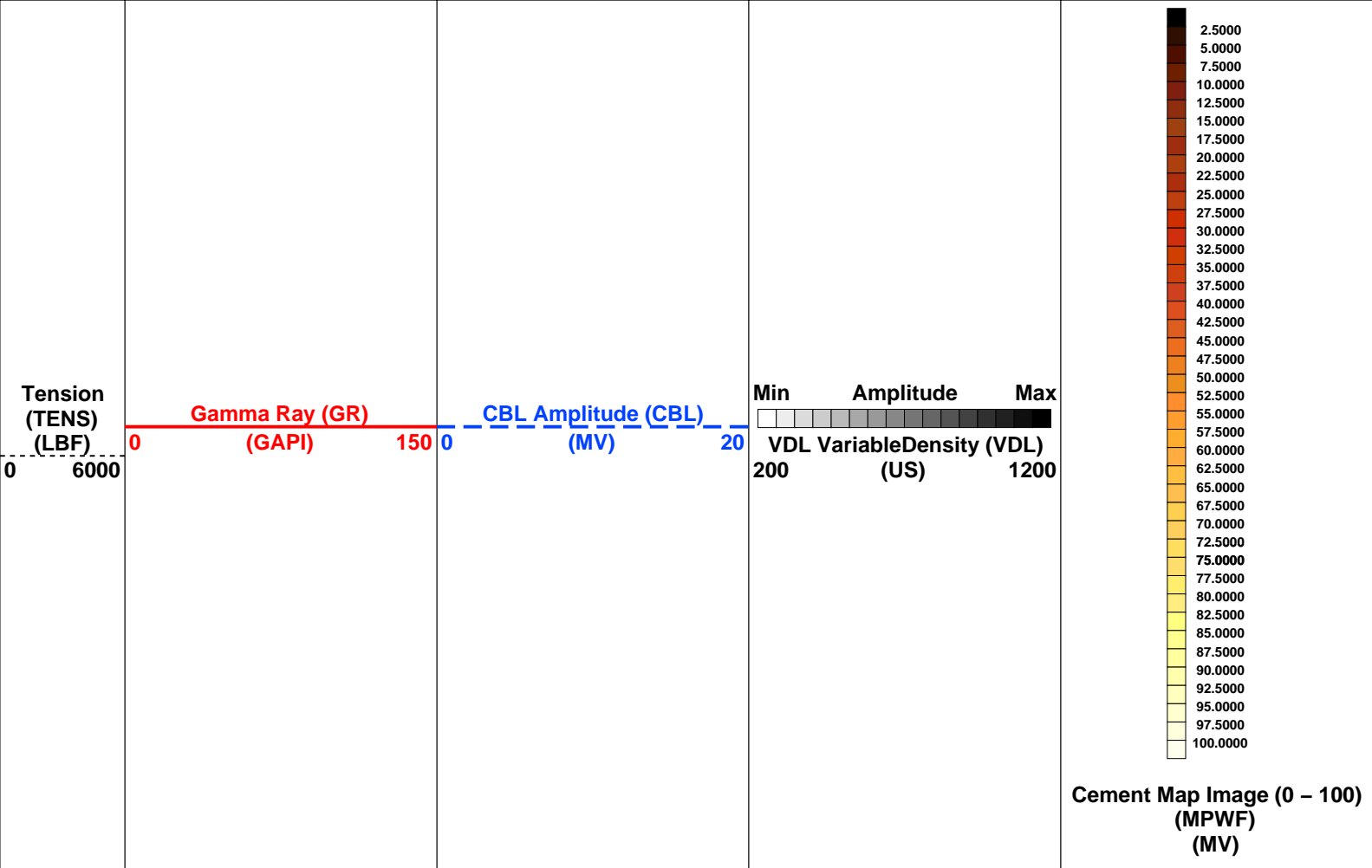
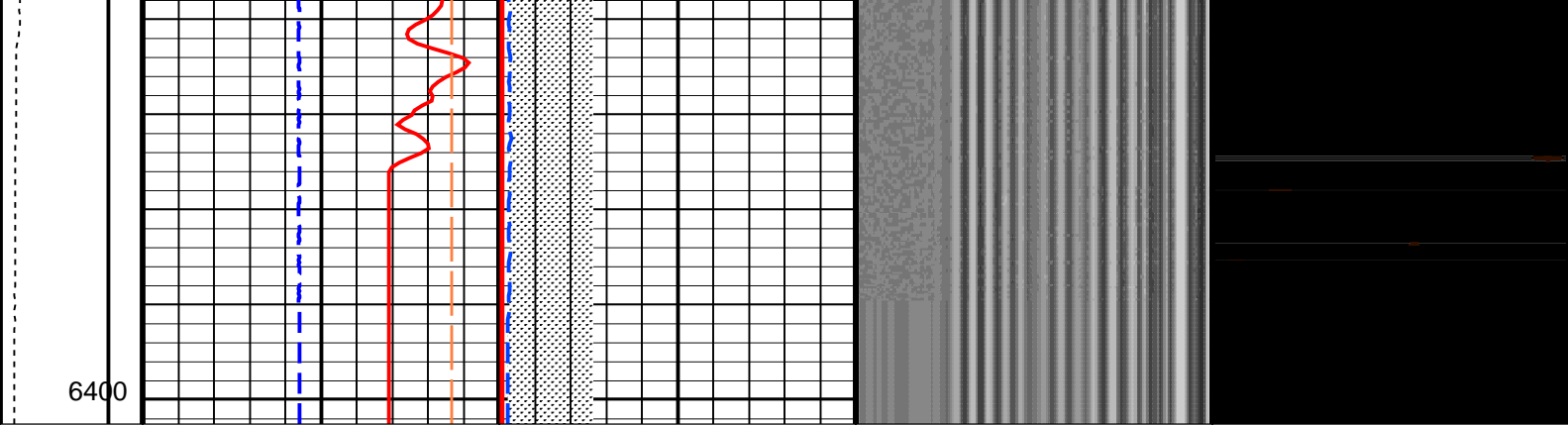












PIP SUMMARY

Time Mark Every 60 S

Format: Scmt_VDL_Image Vertical Scale: 5" per 100' Graphics File Created: 06-Feb-2012 14:50

OP System Version: 19C0-187

SCMT-CB	19C0-187	PSPT	19C0-187
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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	
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
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	-50000	FT

Input DLIS Files

DEFAULT SCMT_PSP_004LUP FN:3 PRODUCER 06-Feb-2012 13:15 6402.5 FT 35.6 FT

Output DLIS Files

DEFAULT SCMT_PSP_008PUP FN:7 PRODUCER 06-Feb-2012 14:50

Company: **CHESAPEAKE OPERATING, INC.**

Schlumberger

Well: **STATE 8-60-16-2H**

Field: **WILDCAT**

County: **WELD**

State: **COLORADO**

CEMENT BOND

GAMMA RAY

CASING COLLAR LOG