

Company: Noble Energy Inc

Well: Rohn State LD10-64HN
Field: Wildcat
County: Weld State: Colorado

County: Weld		USI-LITE (2500 psi)					
Field: Wildcat							
Location: NESE Sec. 9 T9N R58W							
Well: Rohn State LD10-64HN							
Company: Noble Energy Inc							
LOCATION		Permanent Datum: Log Measured From: Drilling Measured From:	GL KB KB	Elev: K.B. G.L. D.F. 4732.0 F 4716.0 F 4731.0 F			
API Serial No. 05-123-37625-0000					Section 9	Township 9N	Range 58W
Logging Date 21-Nov-2014							
Run Number One							
Depth Driller		10130.0 F					
Schlumberger Depth		5930.0 F					
Bottom Log Interval		5930.0 F					
Top Log Interval		0.0 F					
Casing Fluid Level		0.0 F					
Salinity							
Density		8.50 LB/G					
Fluid Level		0.0 F					
BIT/CASING/TUBING STRING							
Bit Size		8.750 IN					
From		5930.0 F					
To		-999.2 F					
Casing Size		7.00 IN					
Weight		26.00 LB/F					
Grade		P110					
From		0.0 F					
To		6049.0 F					
Max Recorded Temp		225.0					
Logger on bottom (date)		21-Nov-2014					
Location		Fort Morgan					
Recorded By		Nolan Welsh					
Witnessed By		Bill Mansfield					

DEPTH SUMMARY LISTING

DEPTH SYSTEM EQUIPMENT

Depth Measuring Device	Tension Device	Logging Cable
Type: Serial Number: Calibration Date: Calibration Cable Type: Wheel Correction 1: Wheel Correction 2:	Type: Serial Number: 1109 Calibration Date: Calibrator Serial Number: Number Of Calibration Points: Calibration RMS: Calibration Peak Error:	Serial Number: F713384 Length: 18250.00000

DISCLAIMER

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. 12.5 ppg lead cement
13.6 ppg tail cement

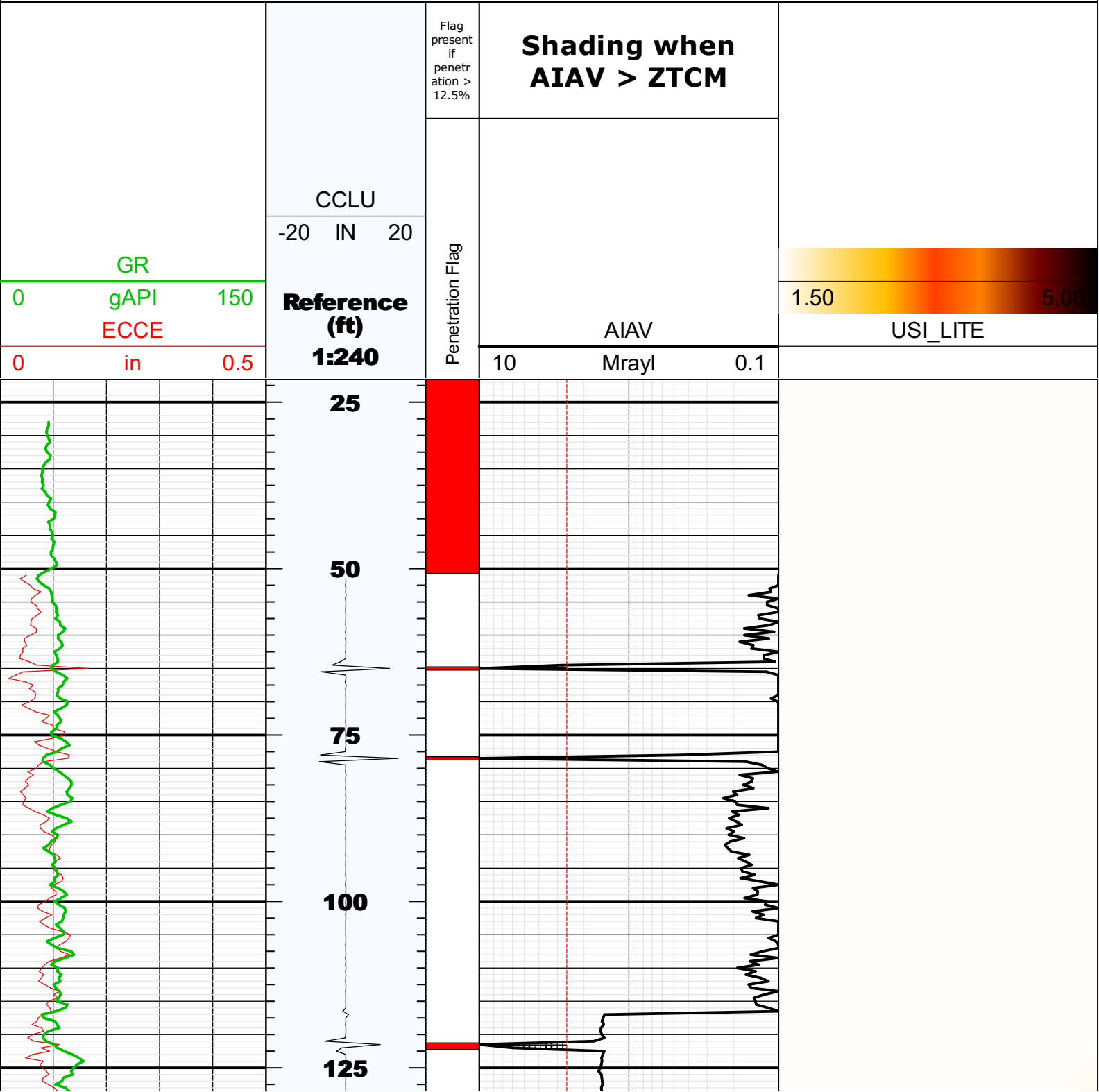
0 psi Repeat Pass
2500 psi Main Pass

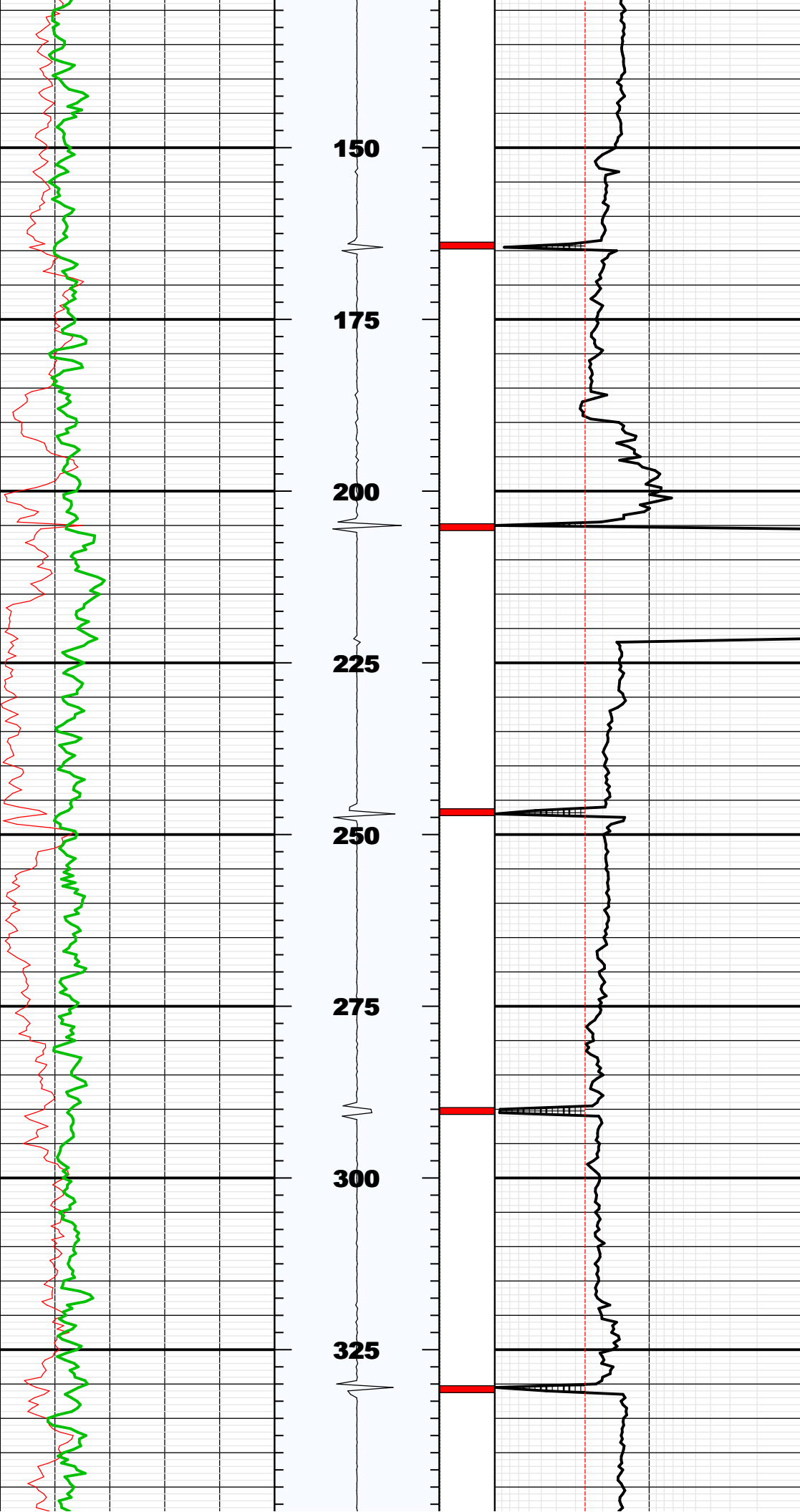
Top of Cement 675 ft.

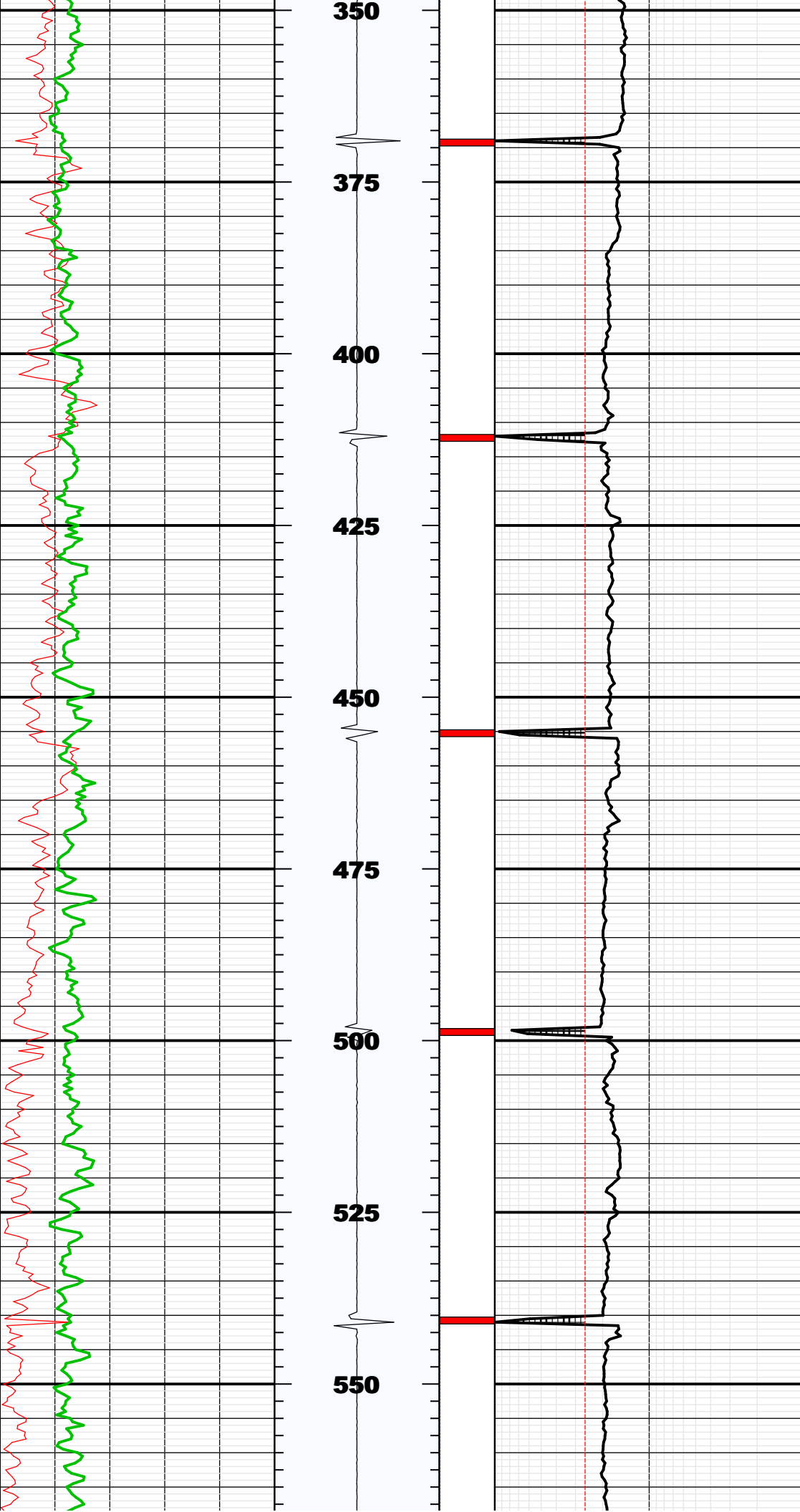
Bottom Log Temperature 225 degF measured at depth

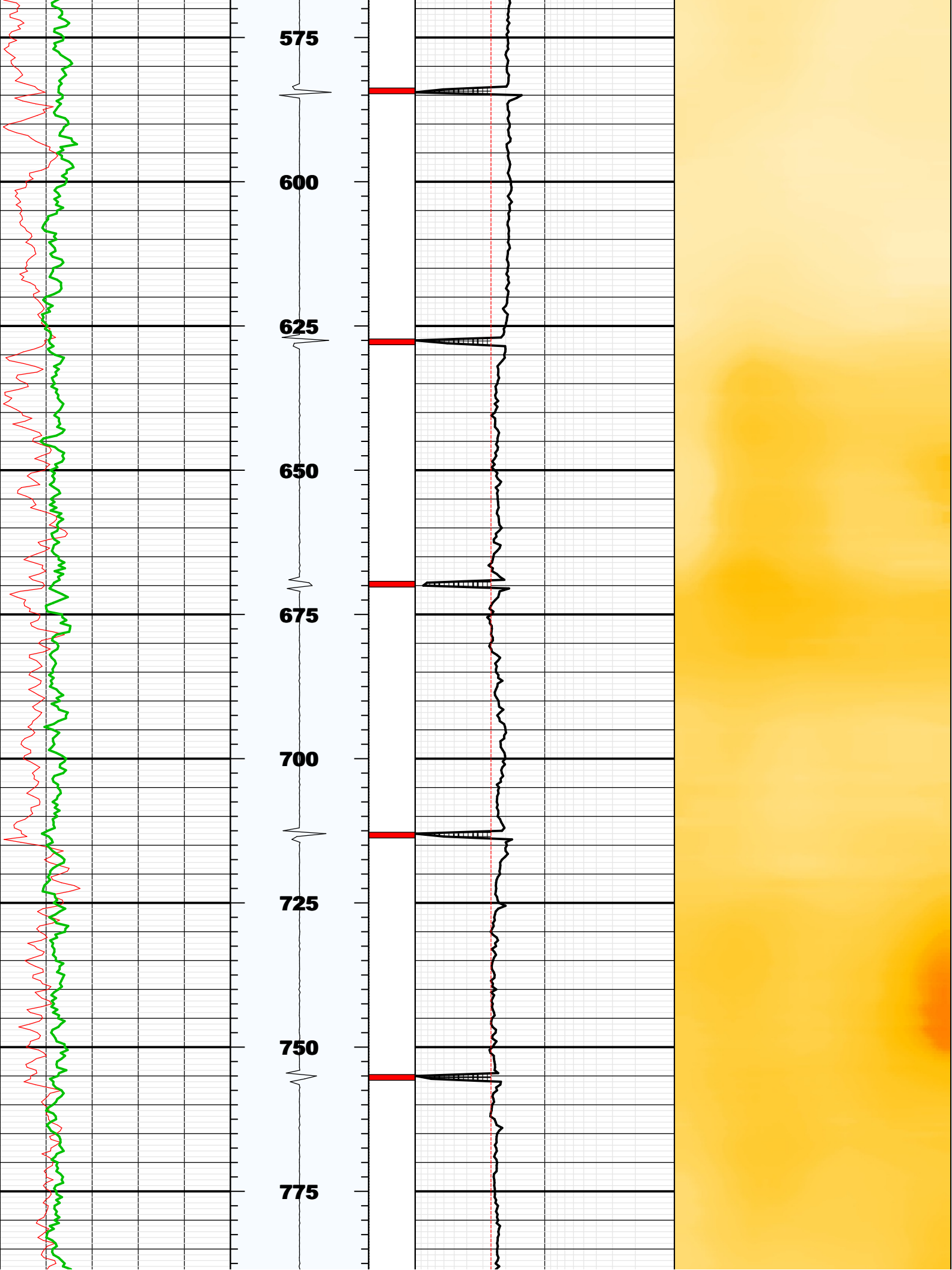
Main Pass

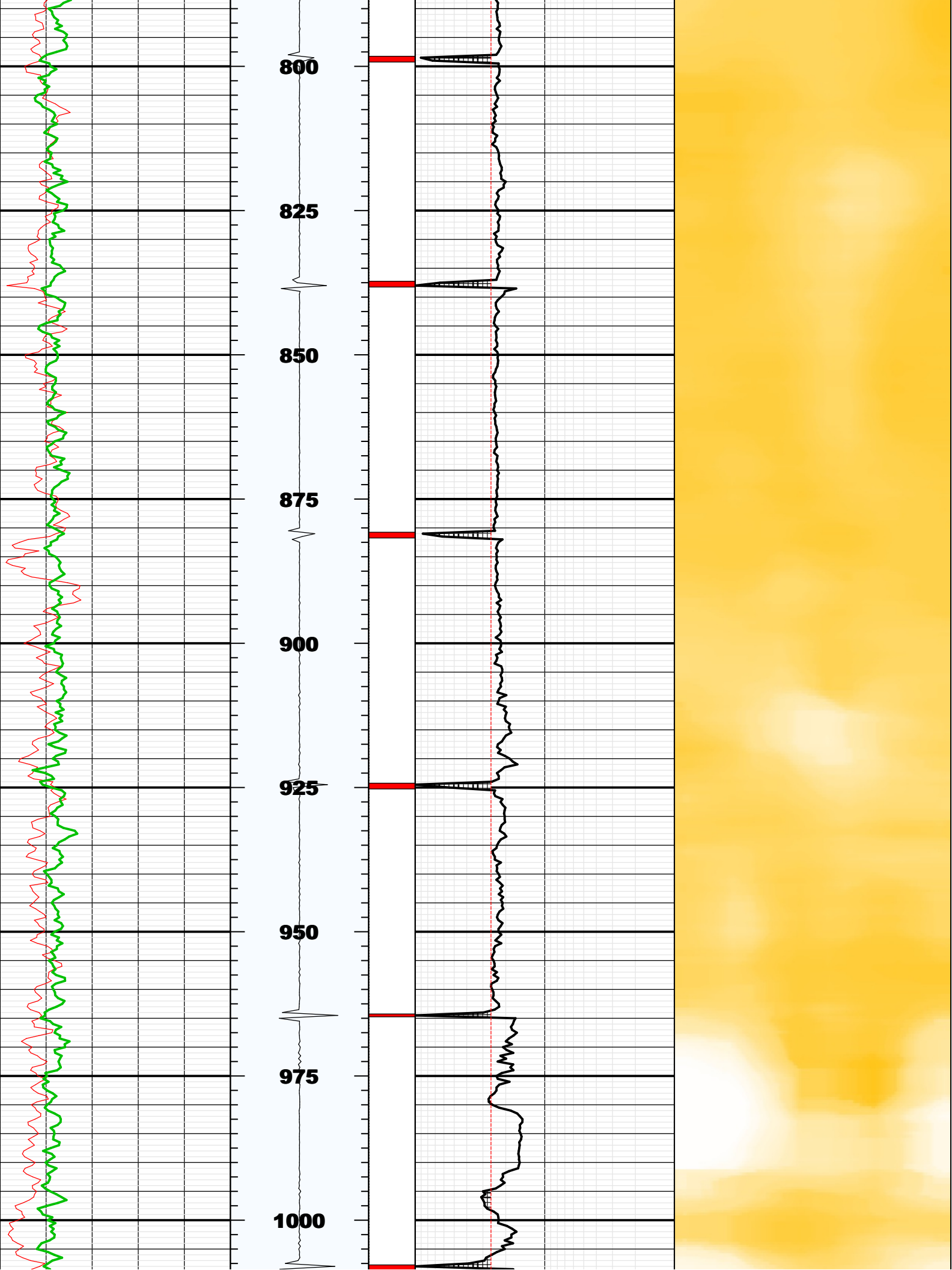
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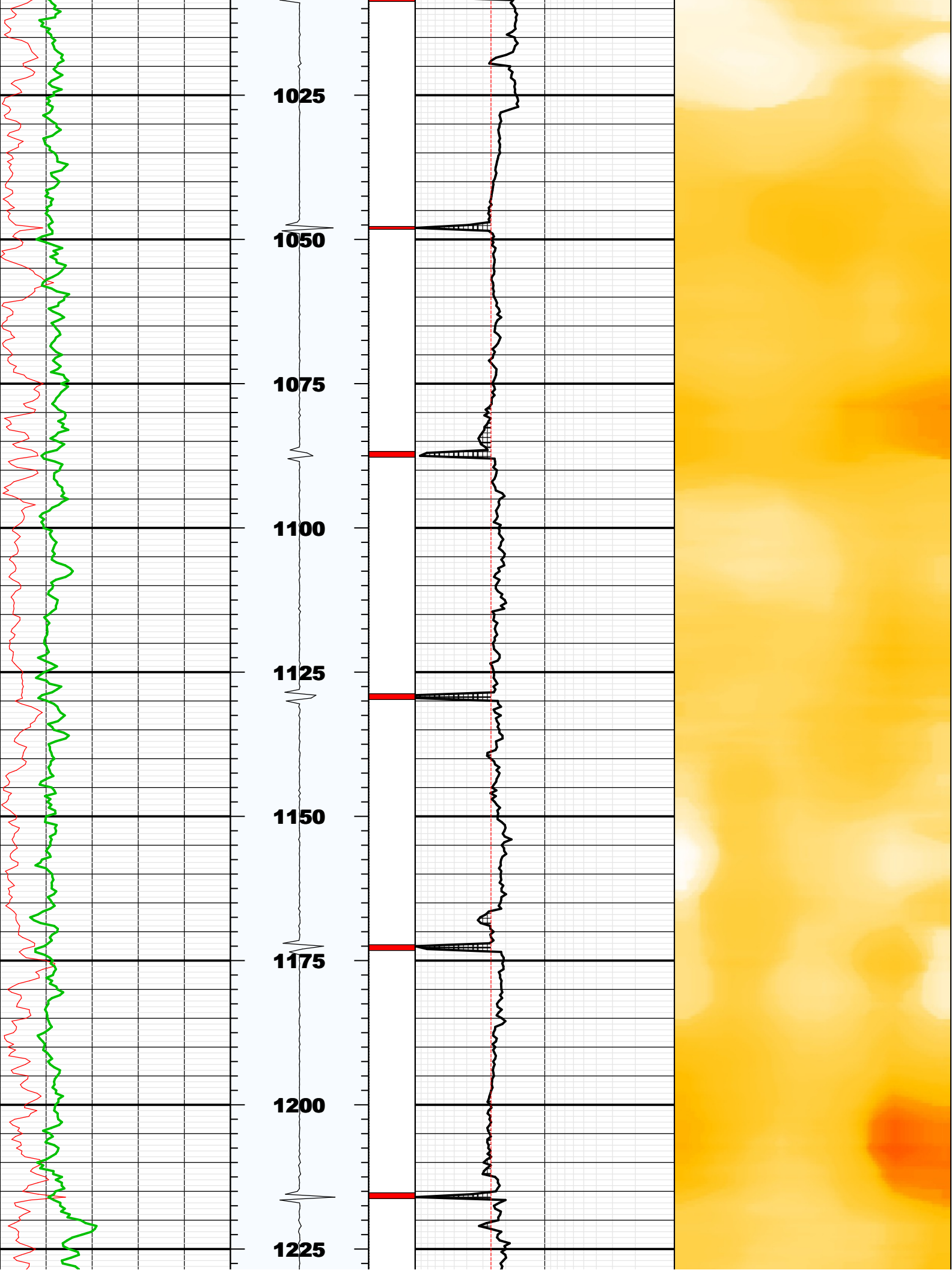


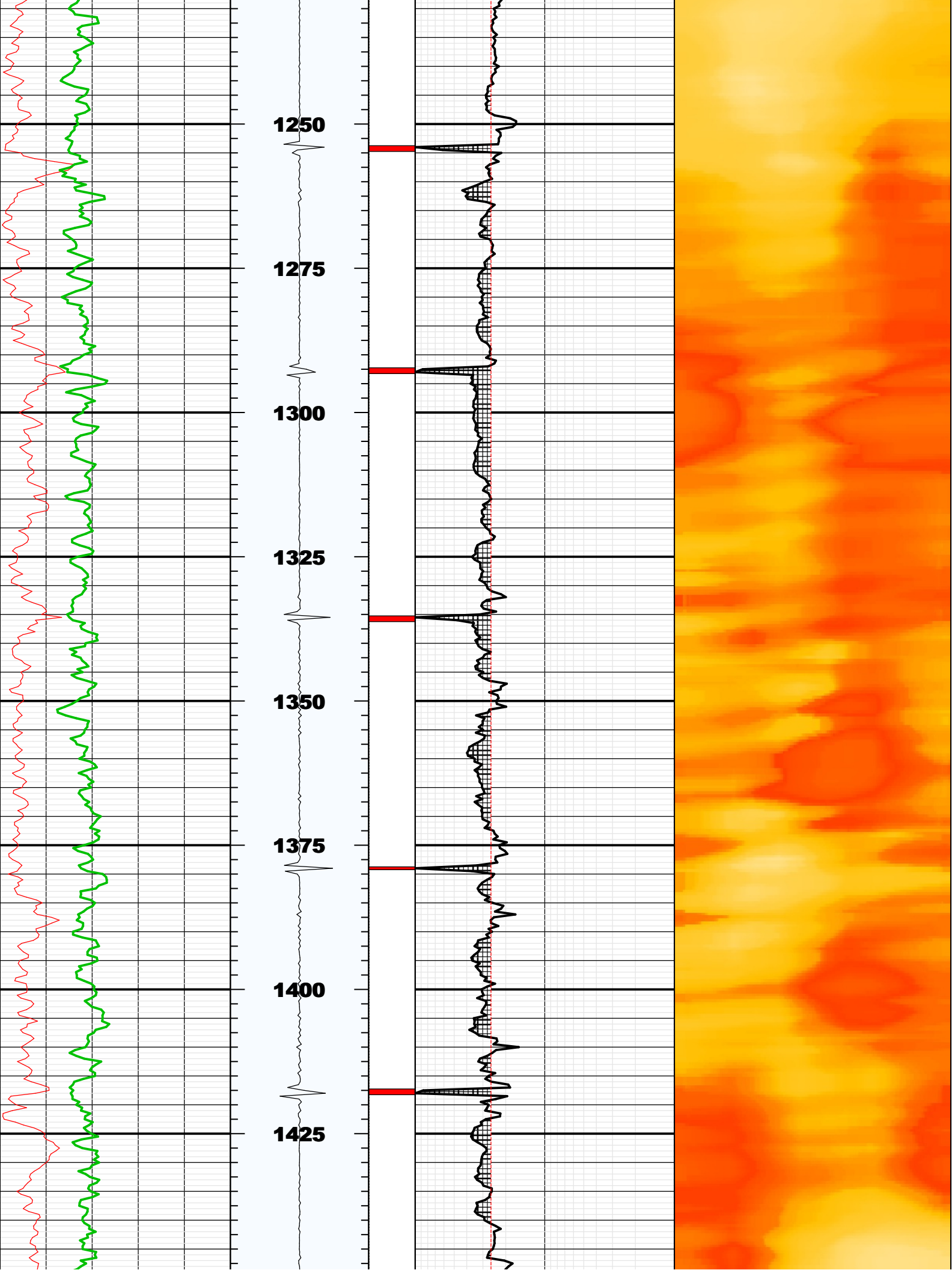


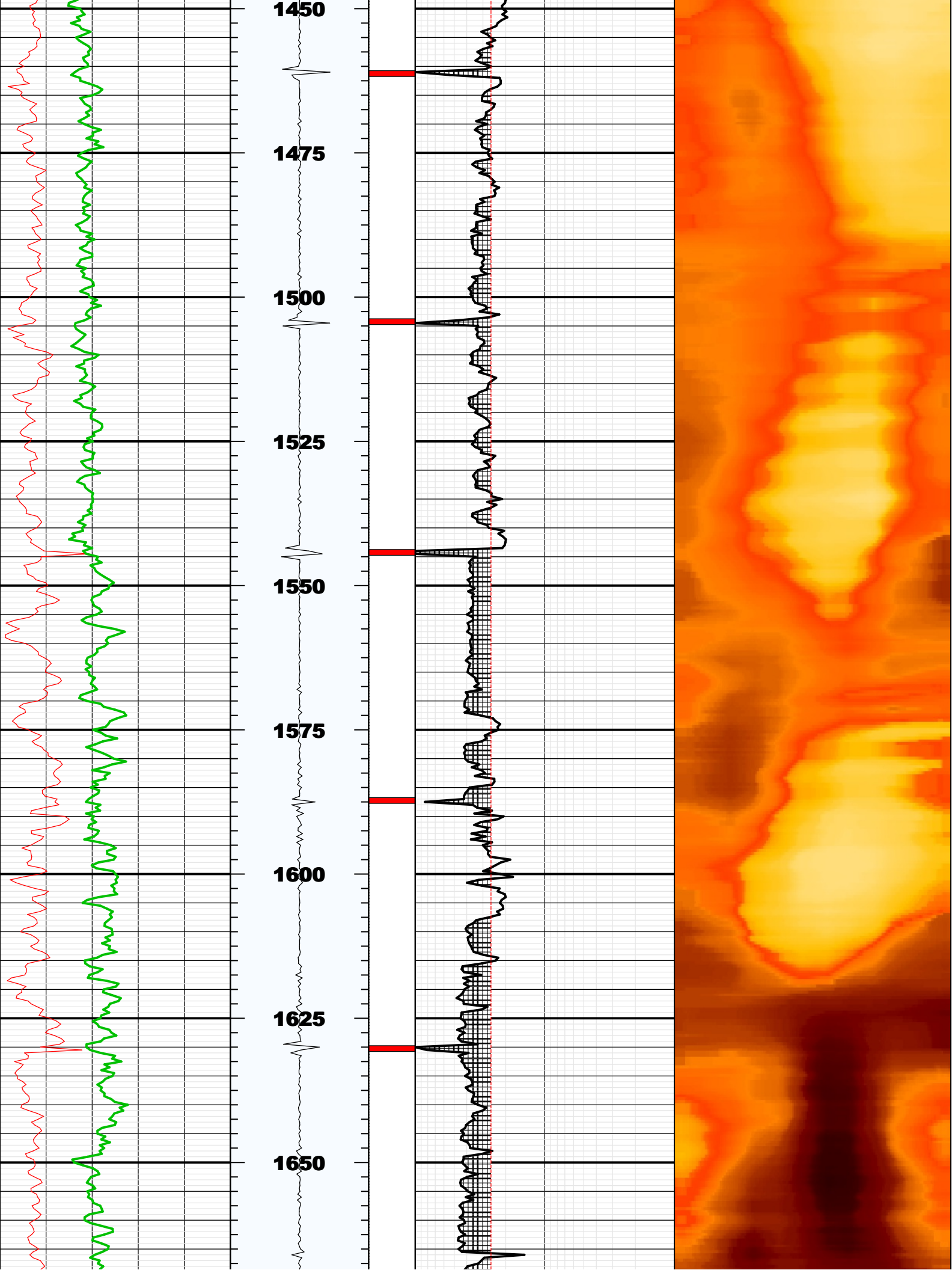


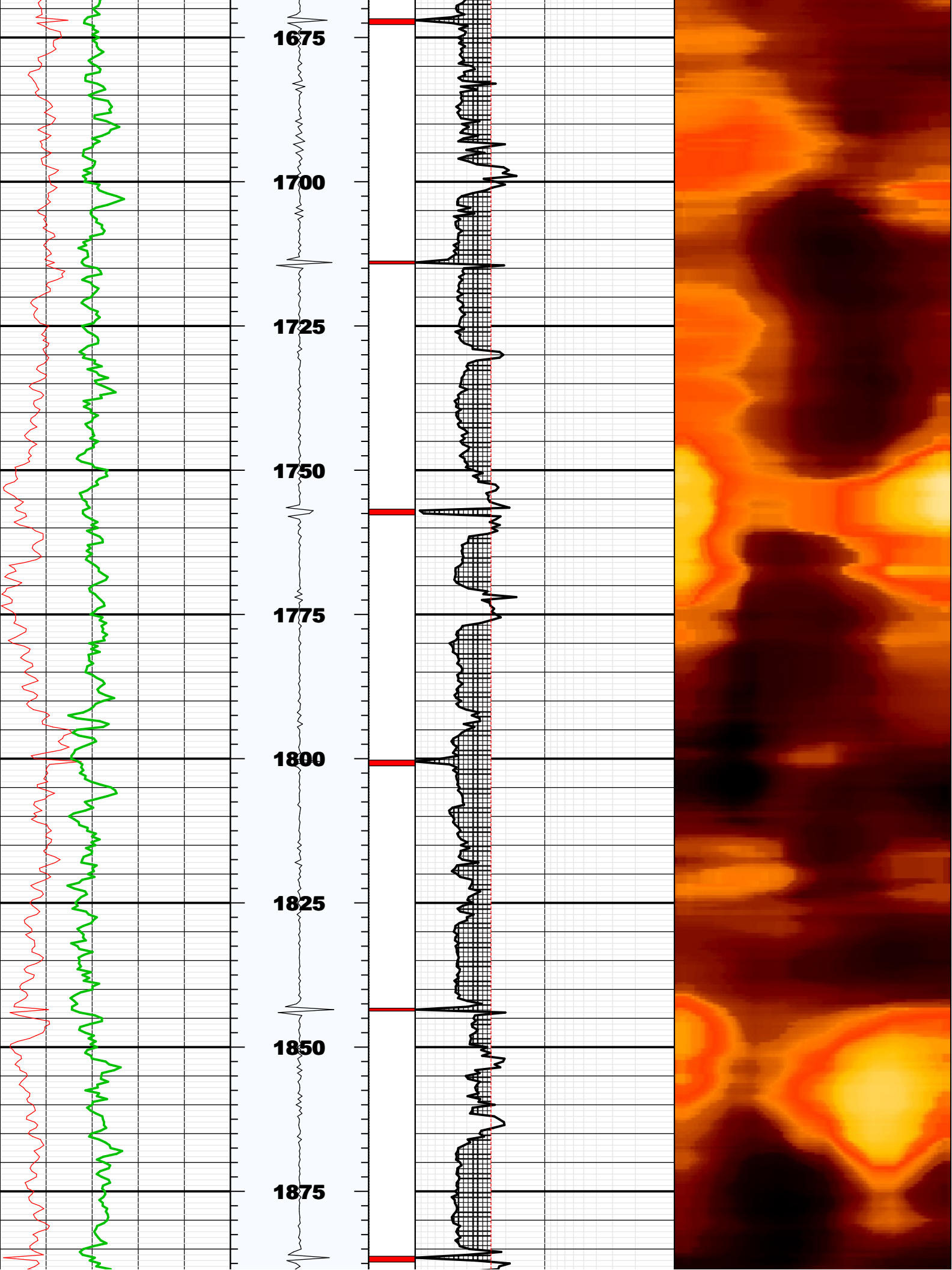


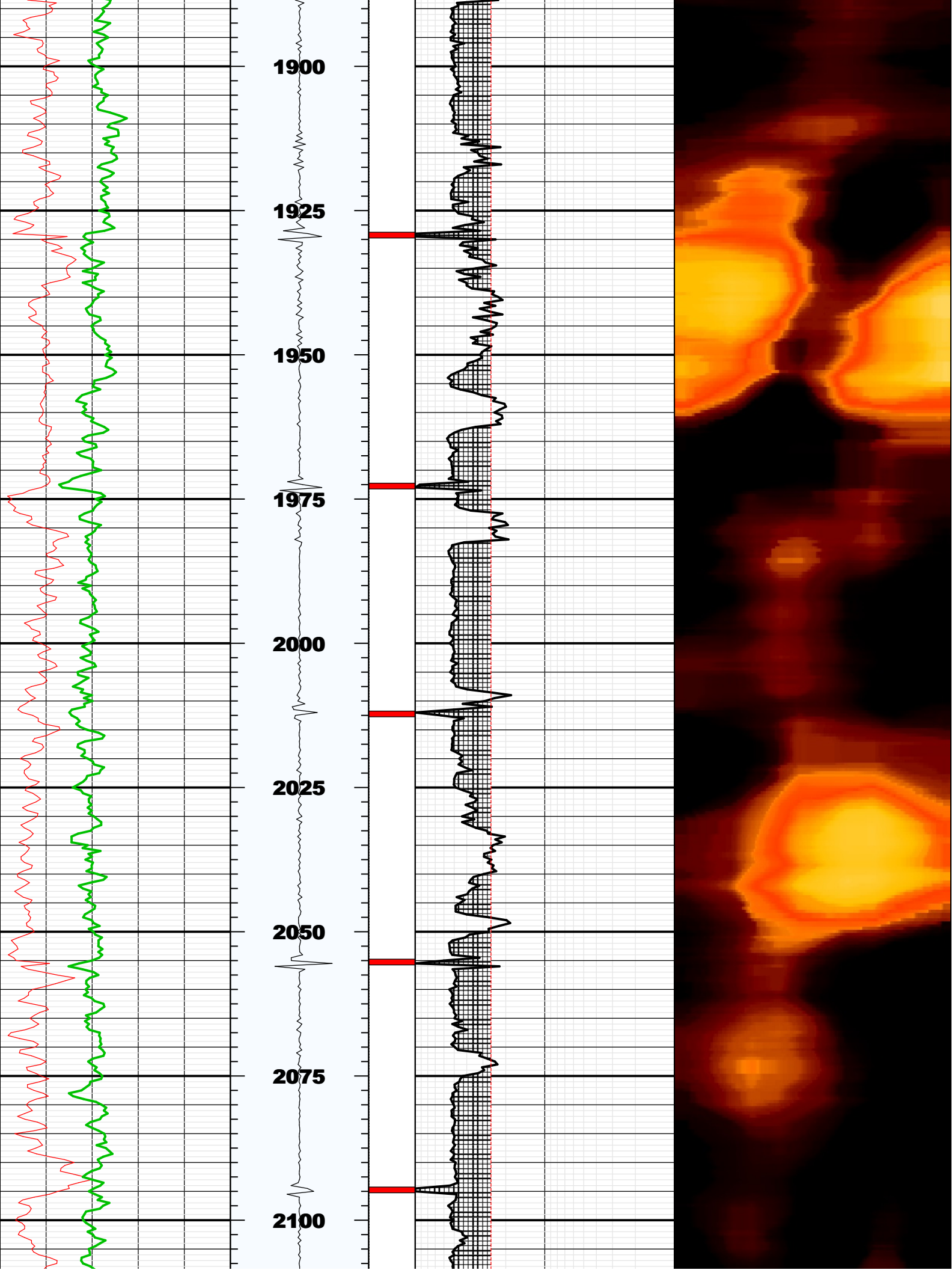


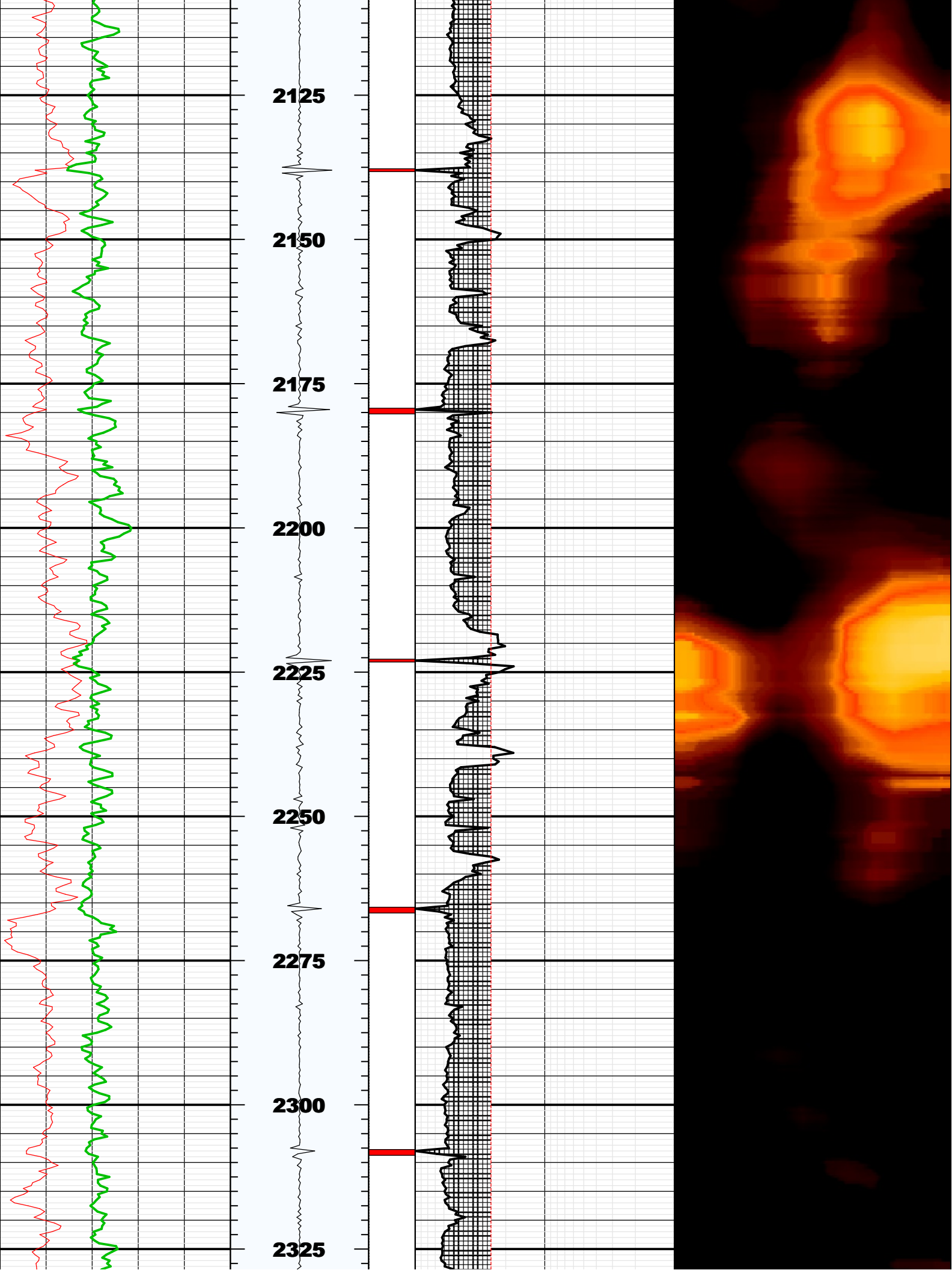


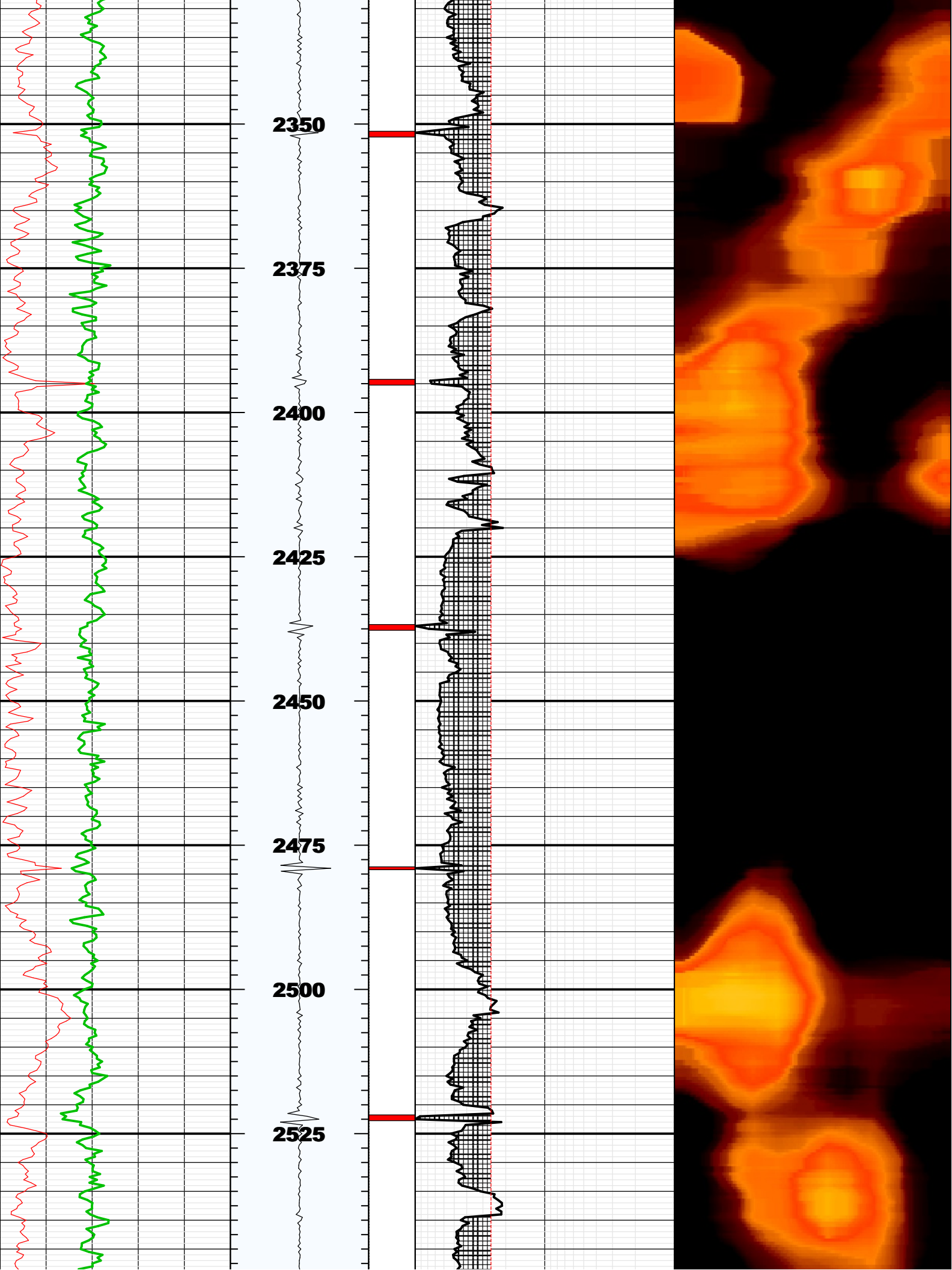


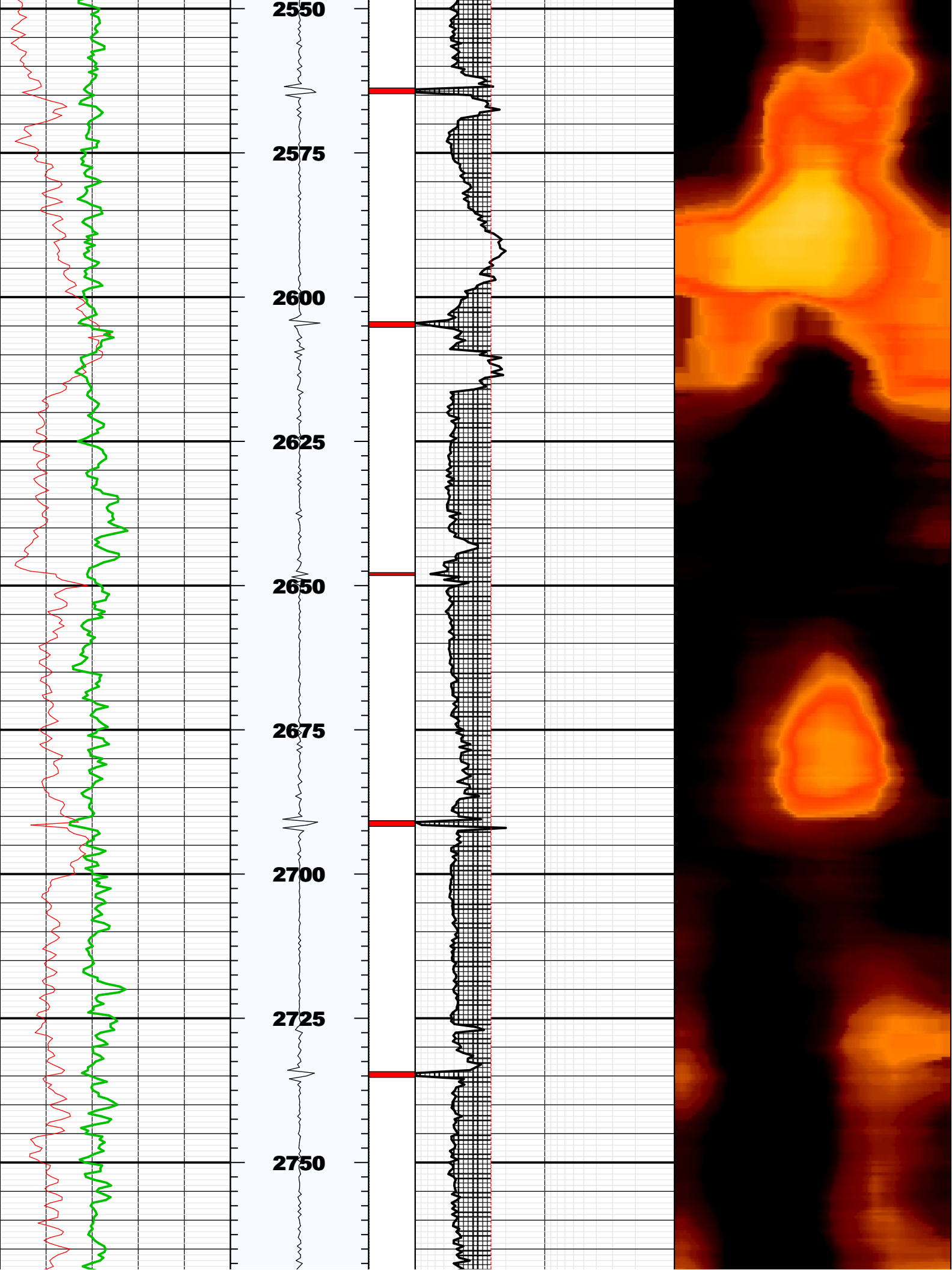


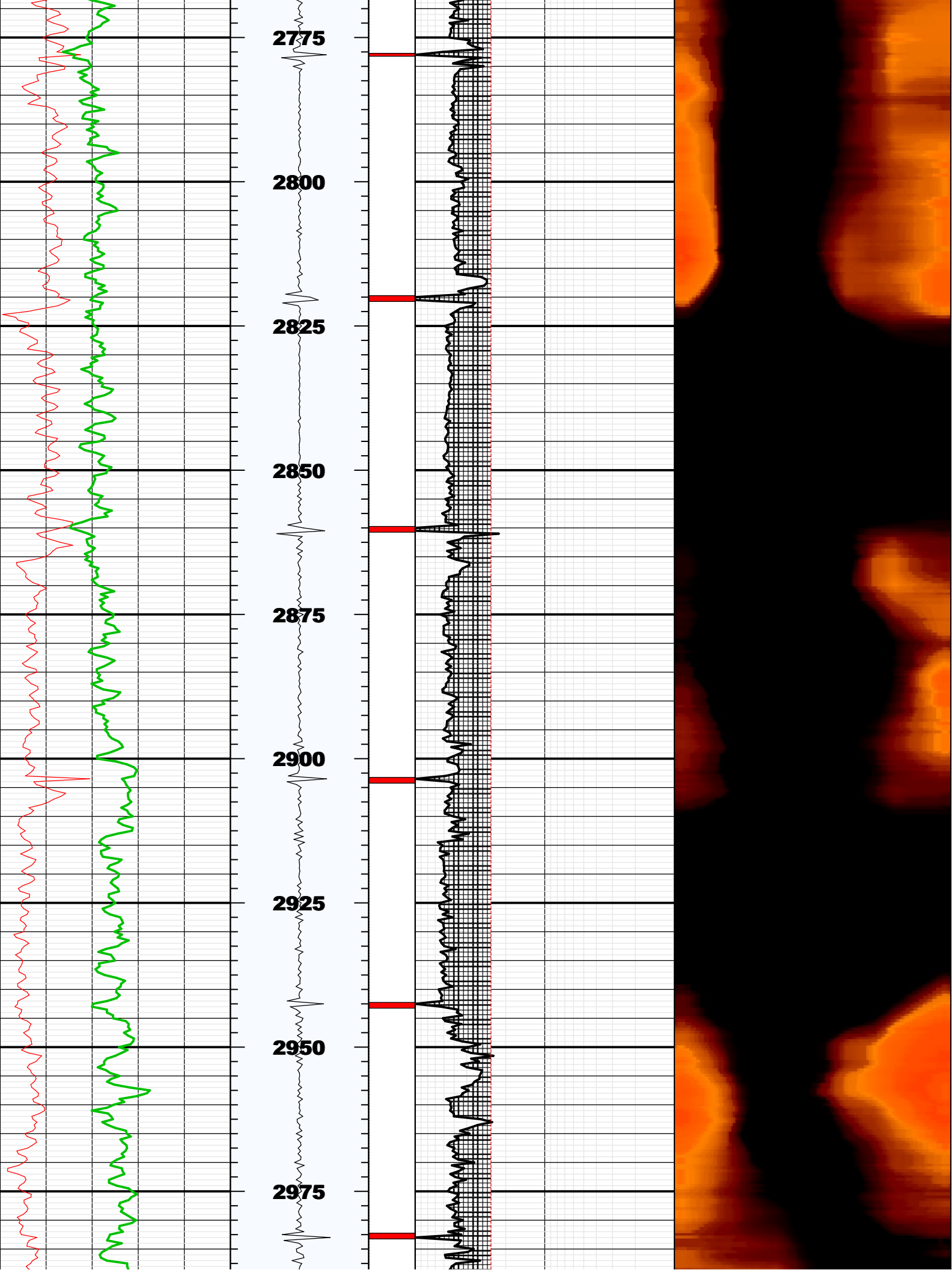


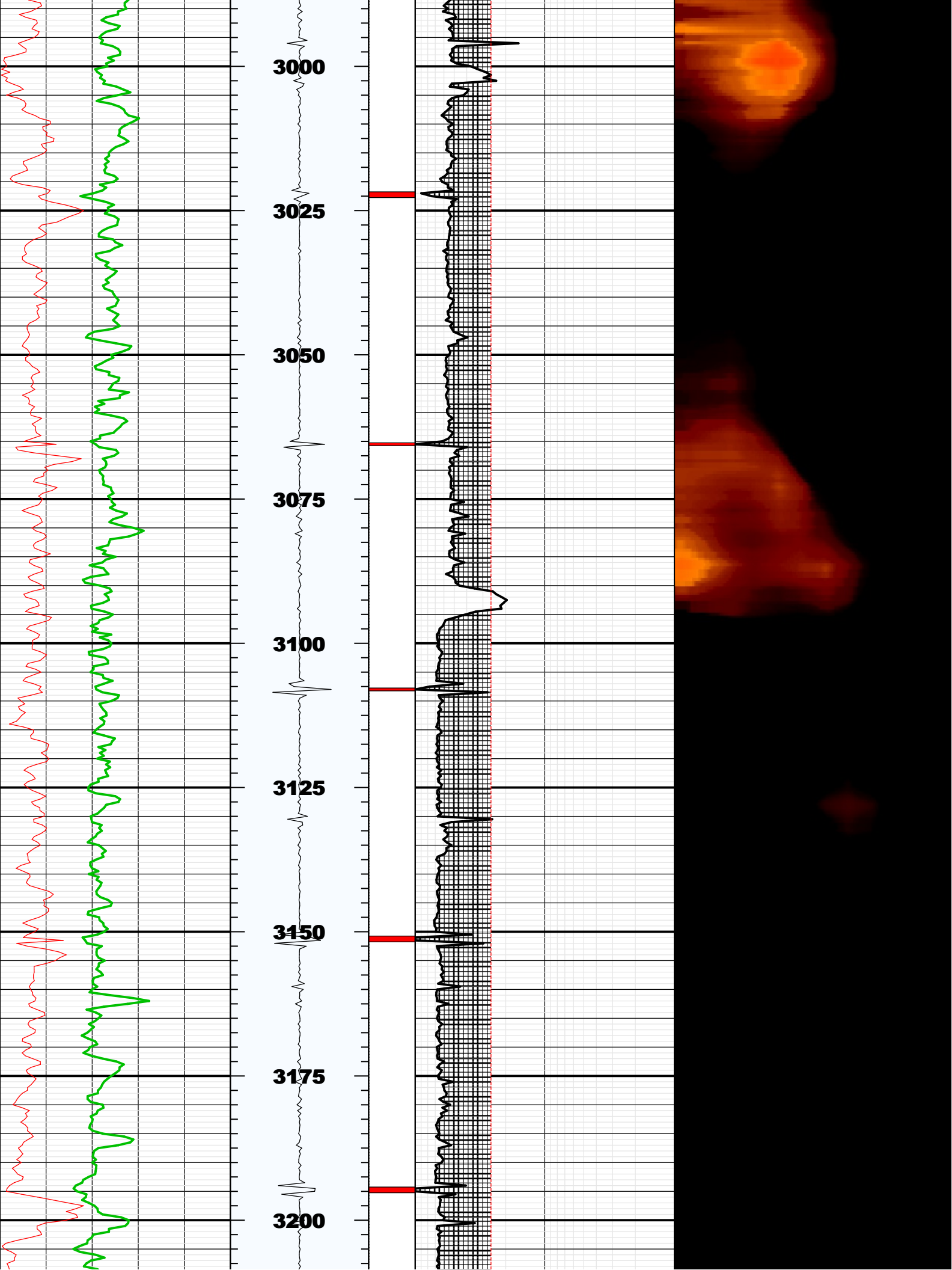


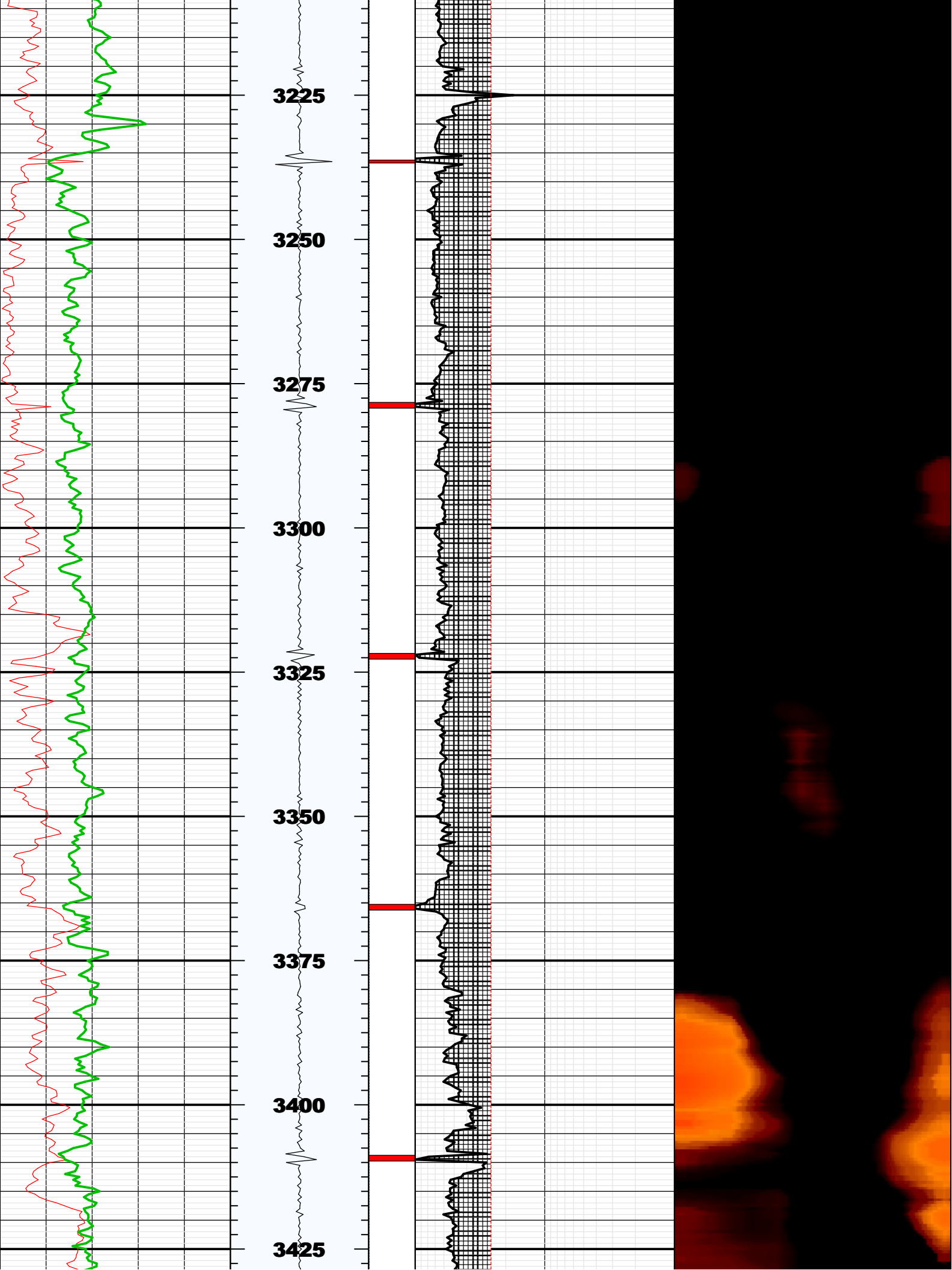


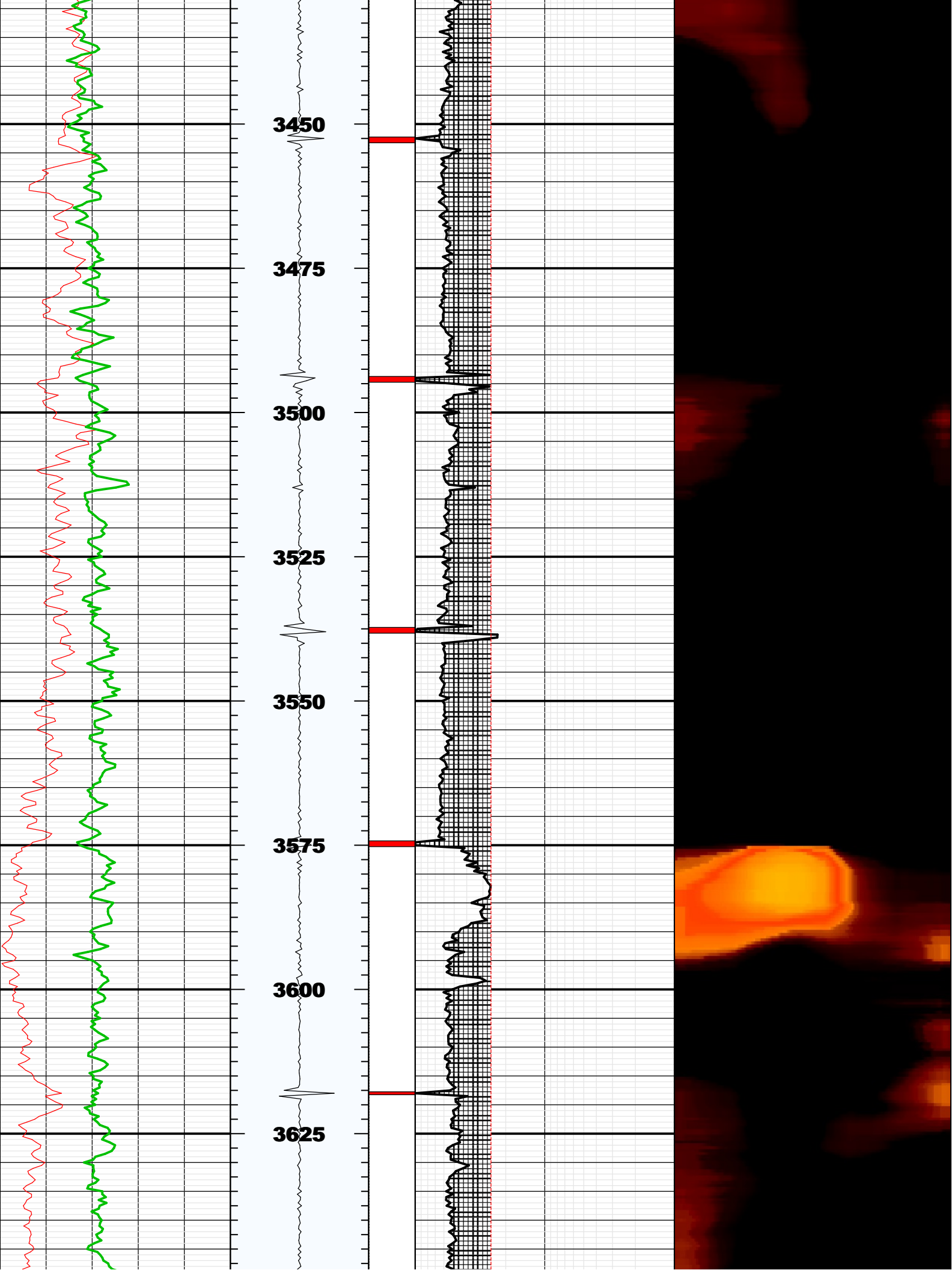


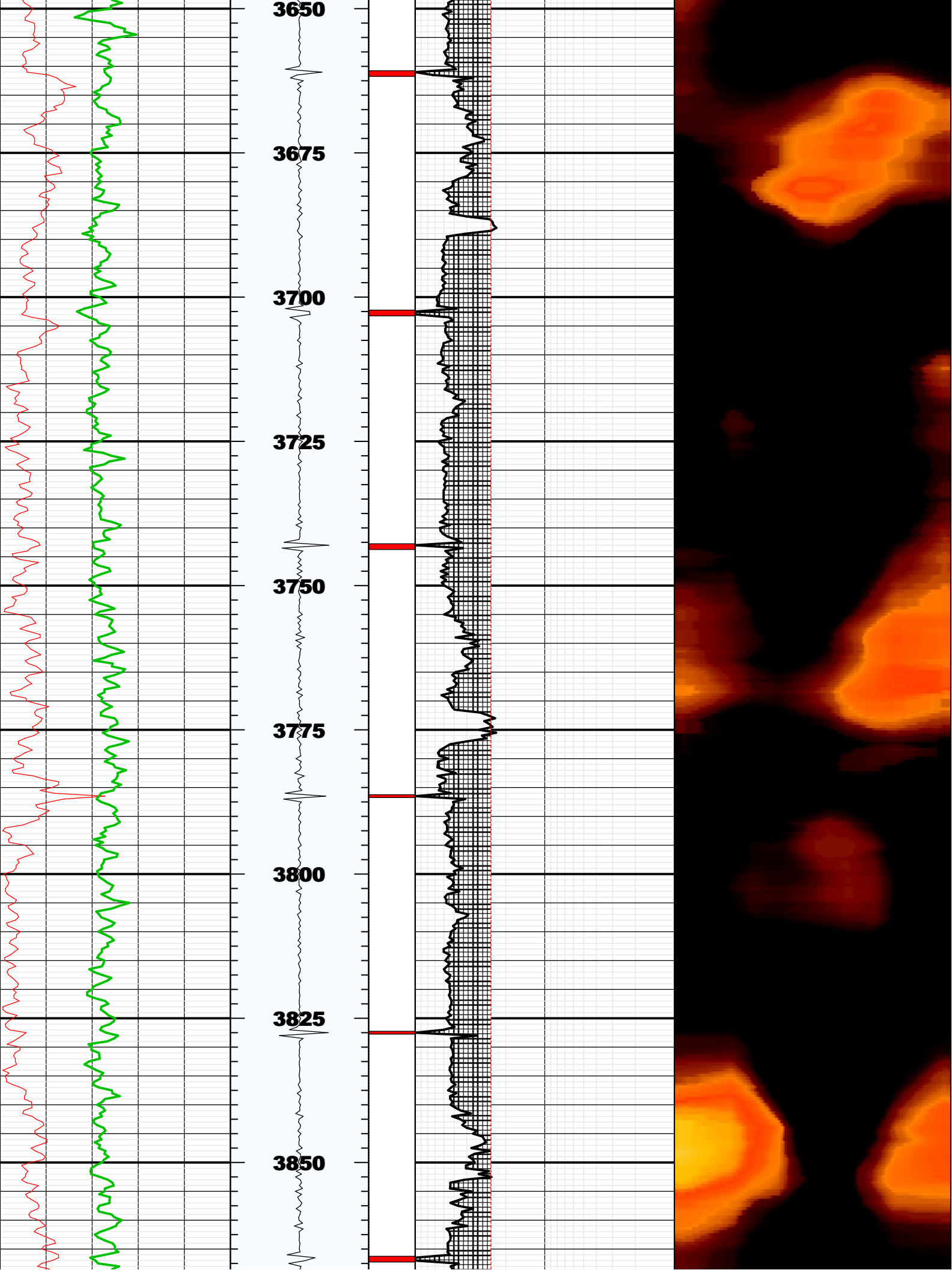


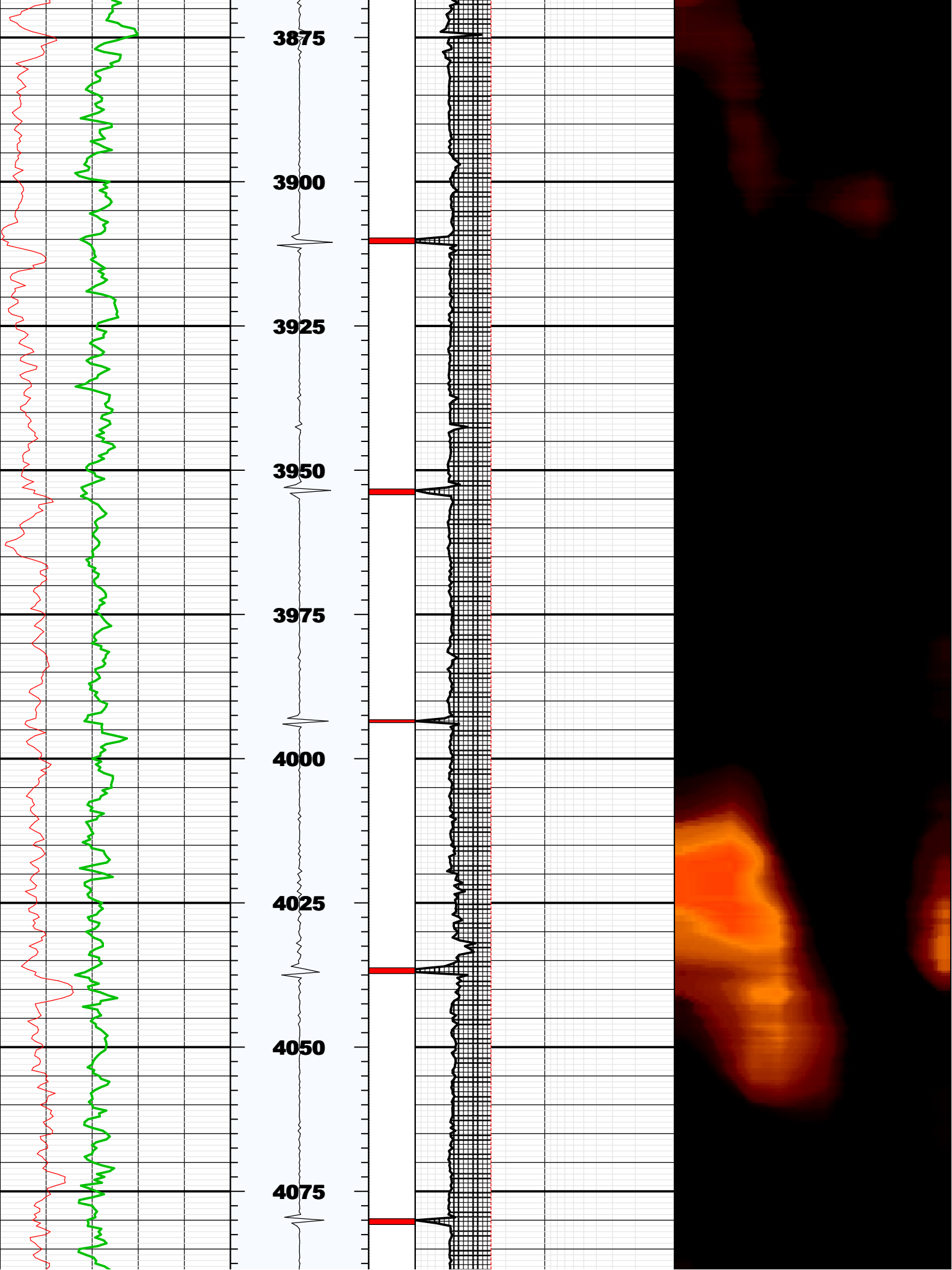


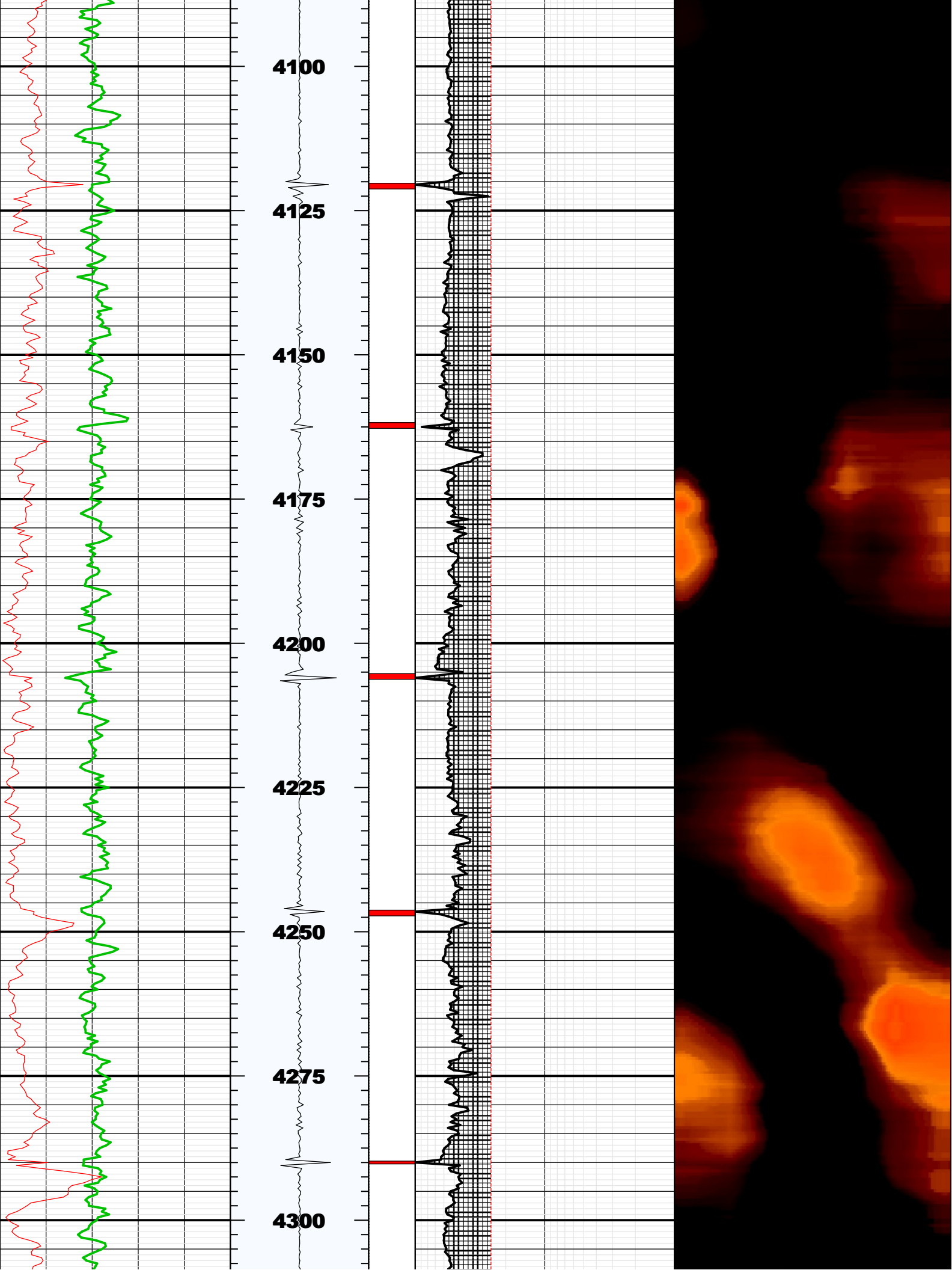


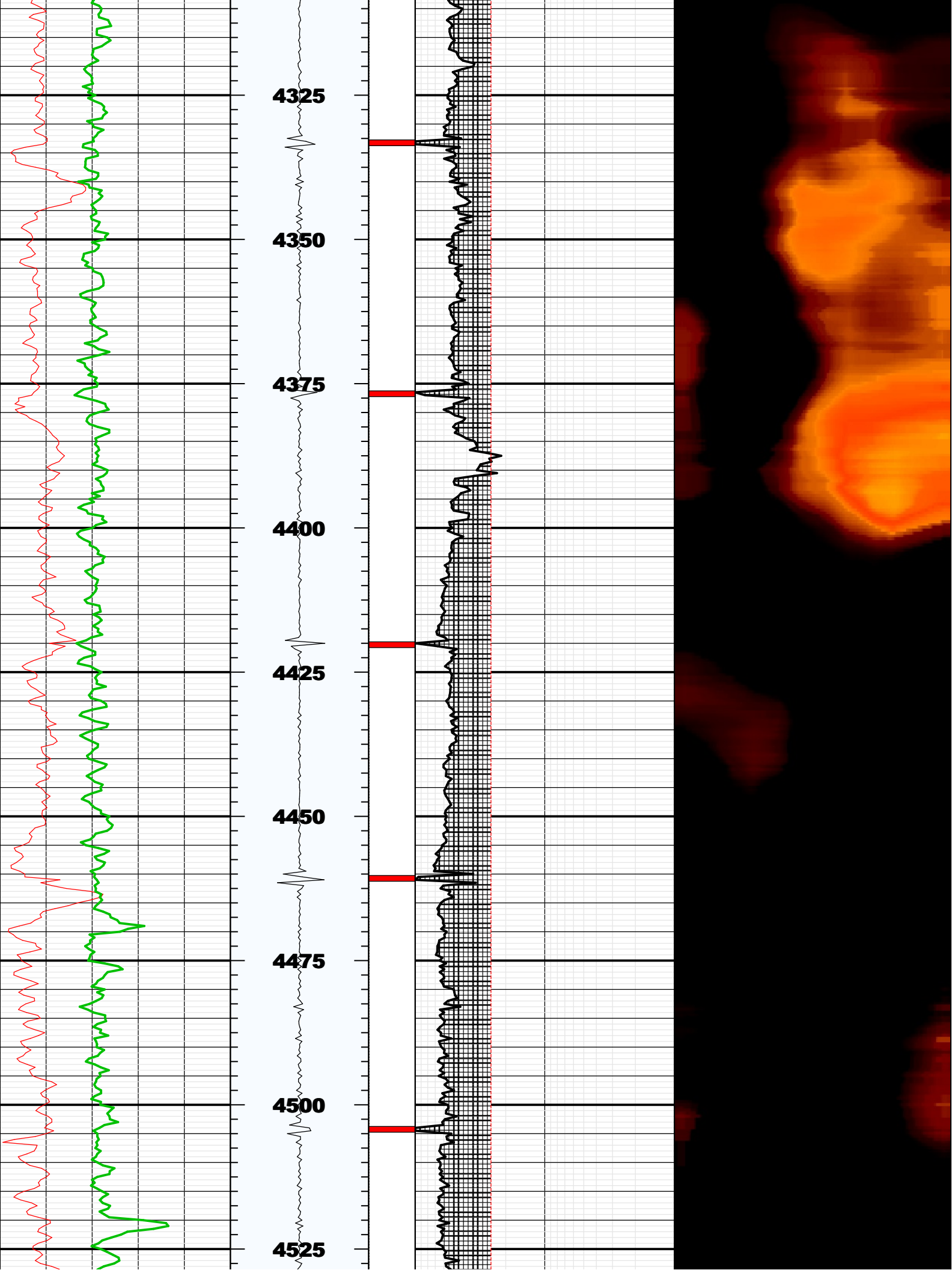


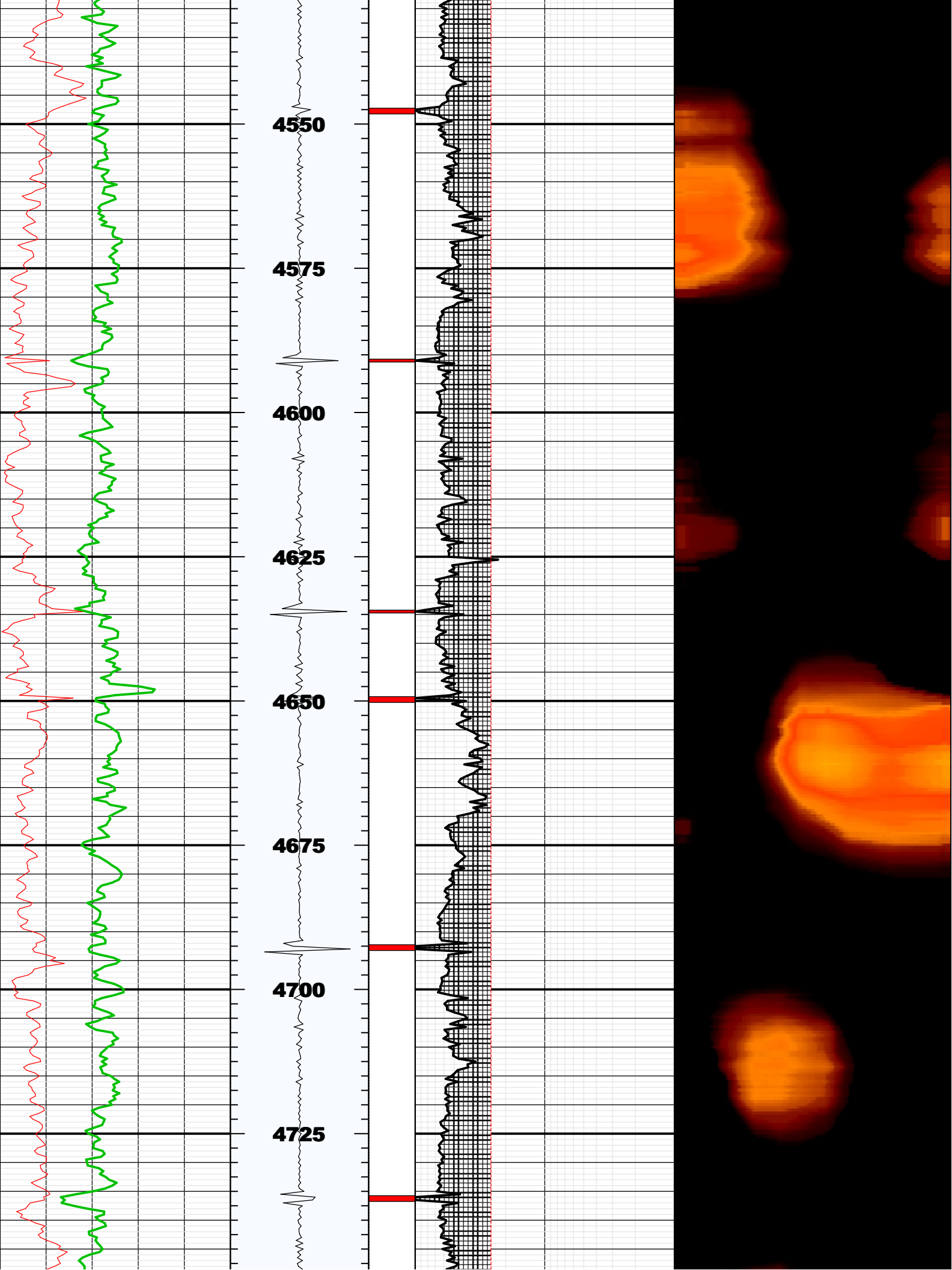


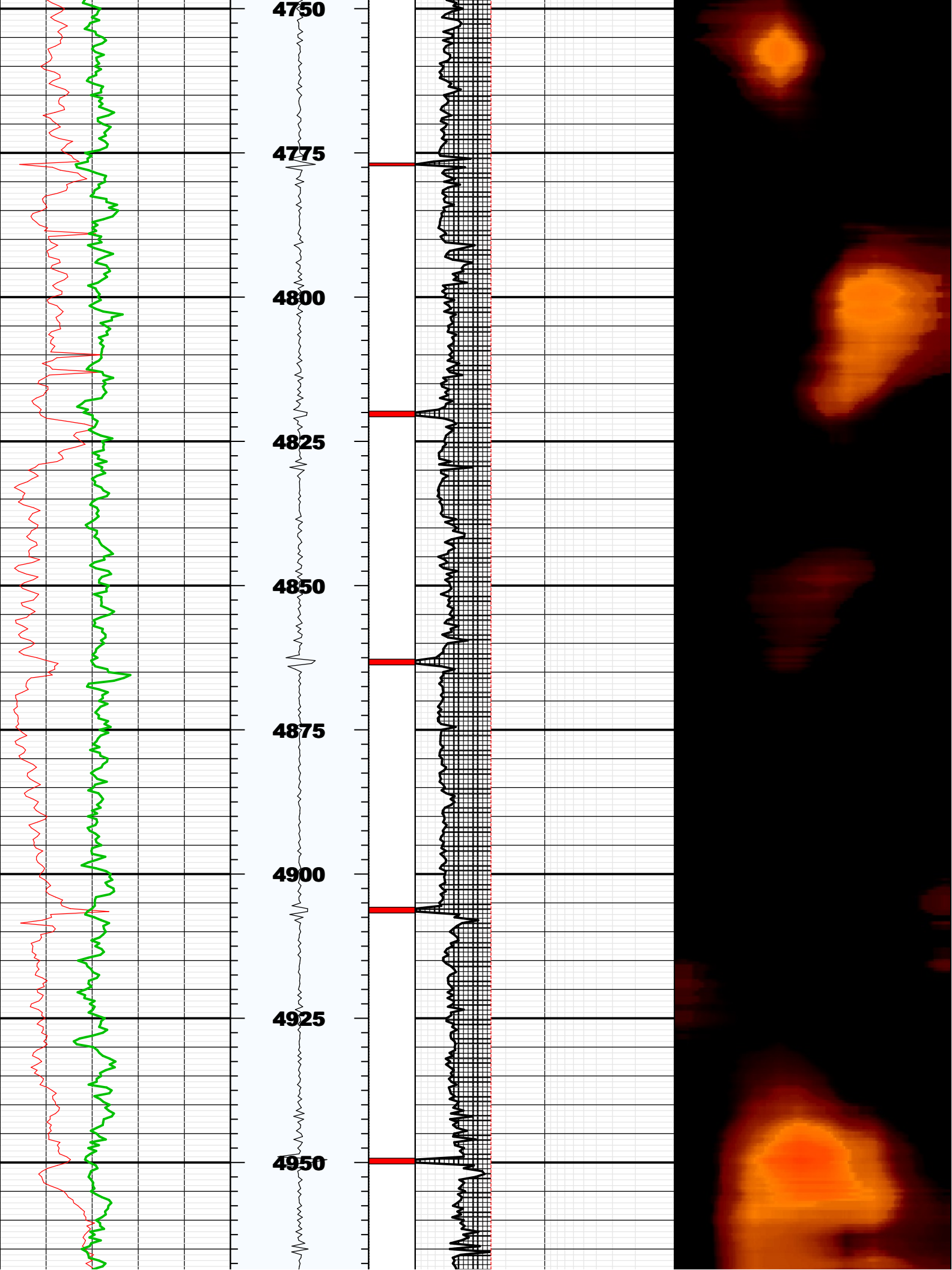


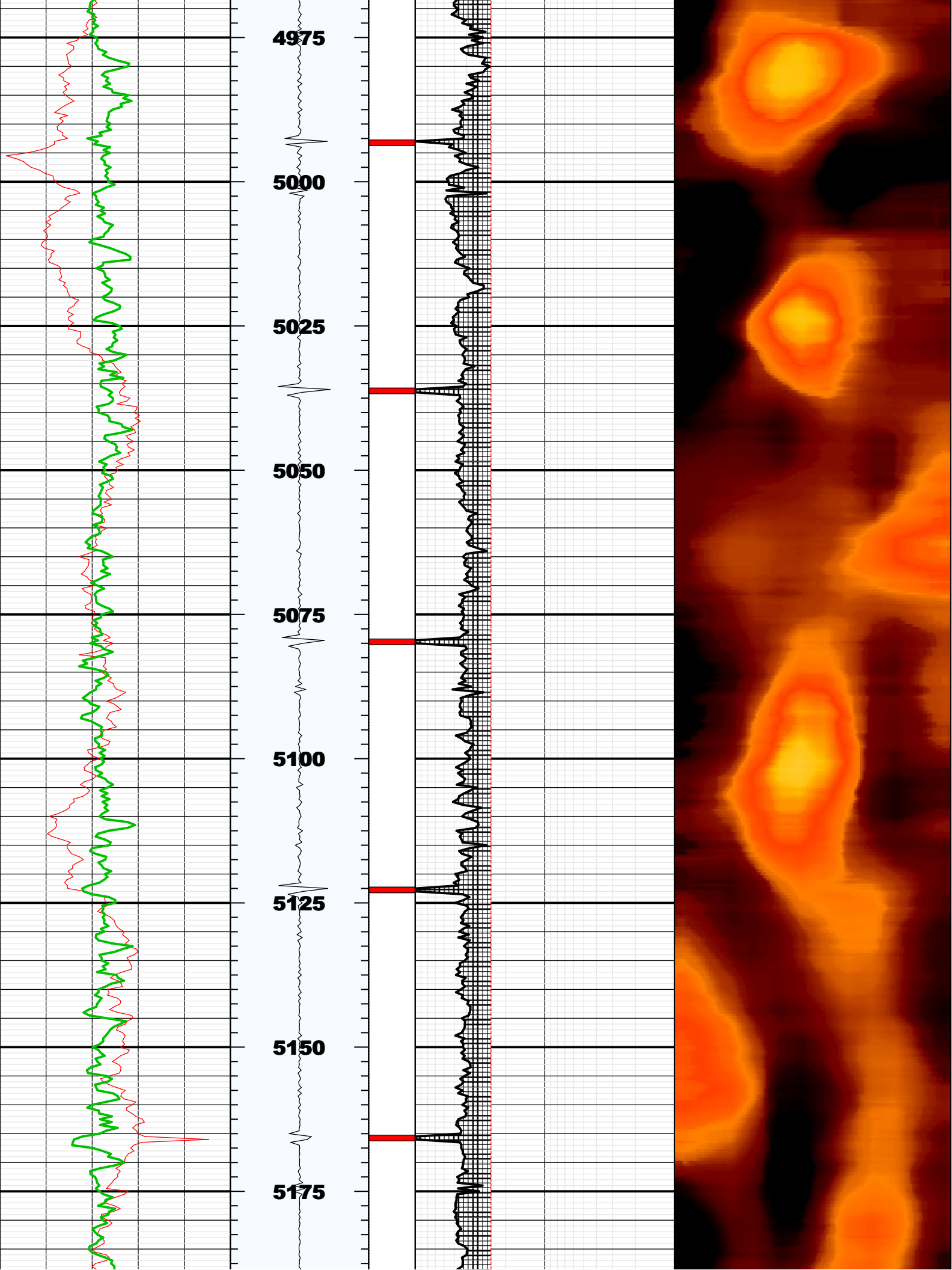


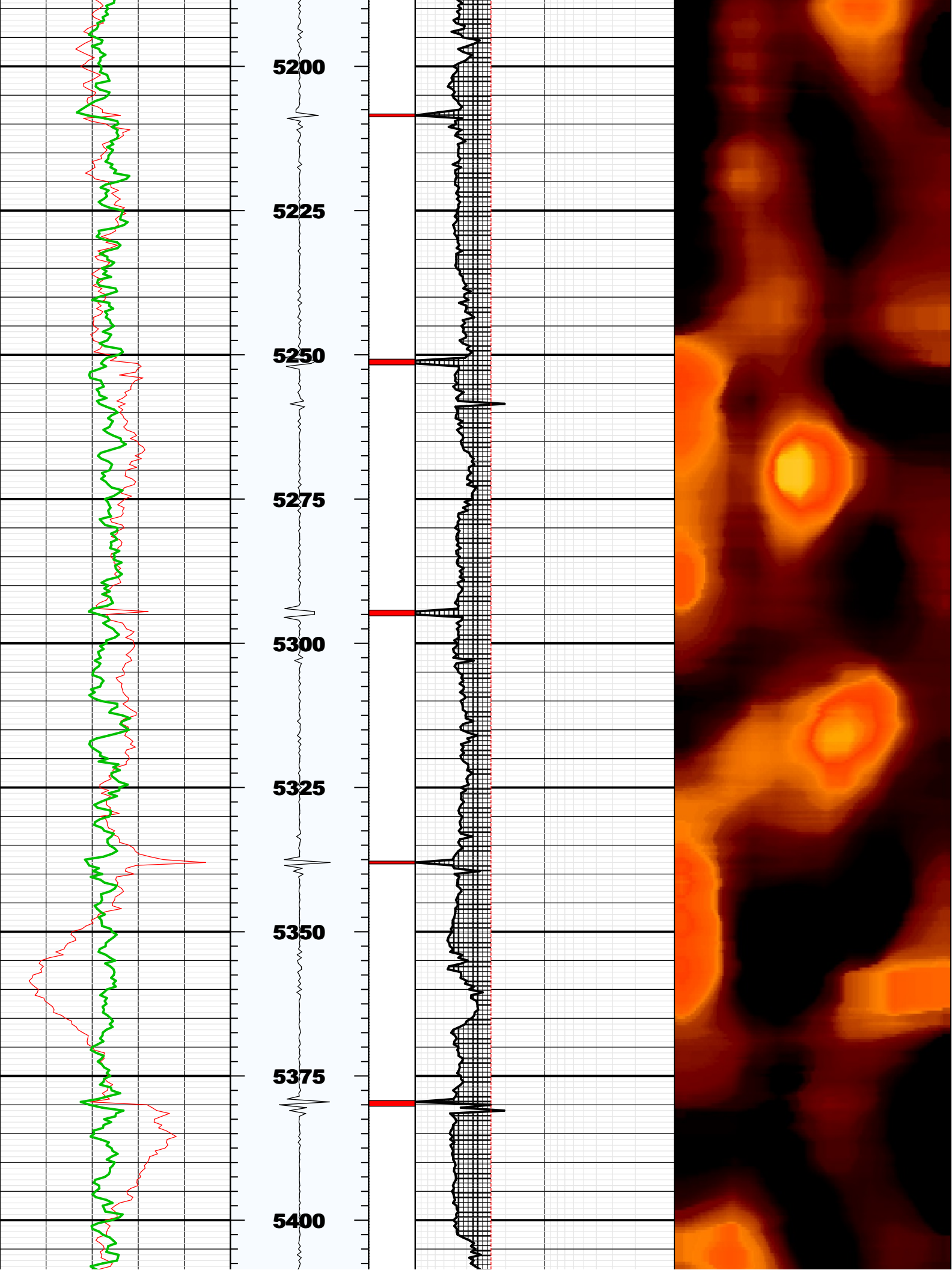


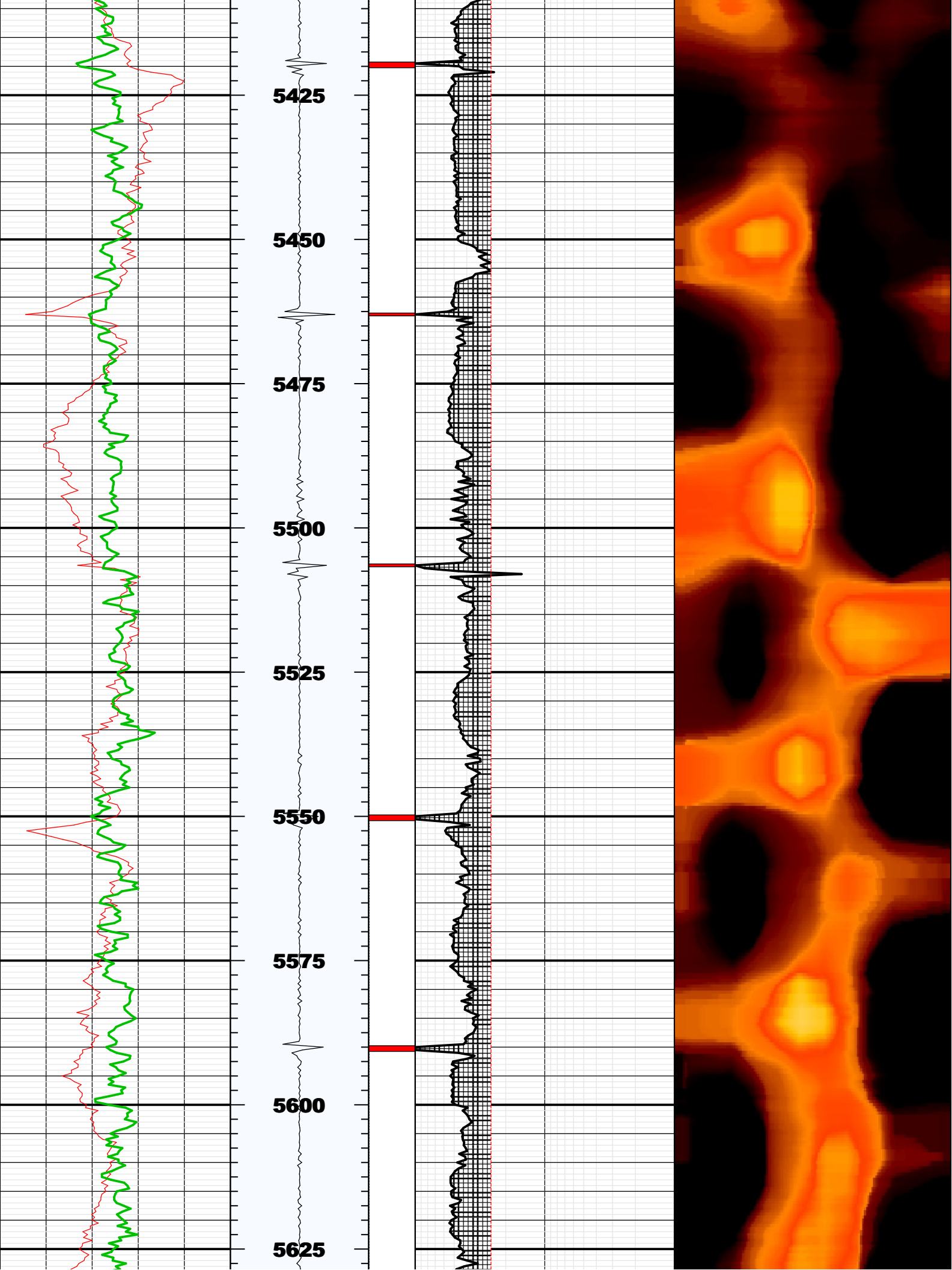


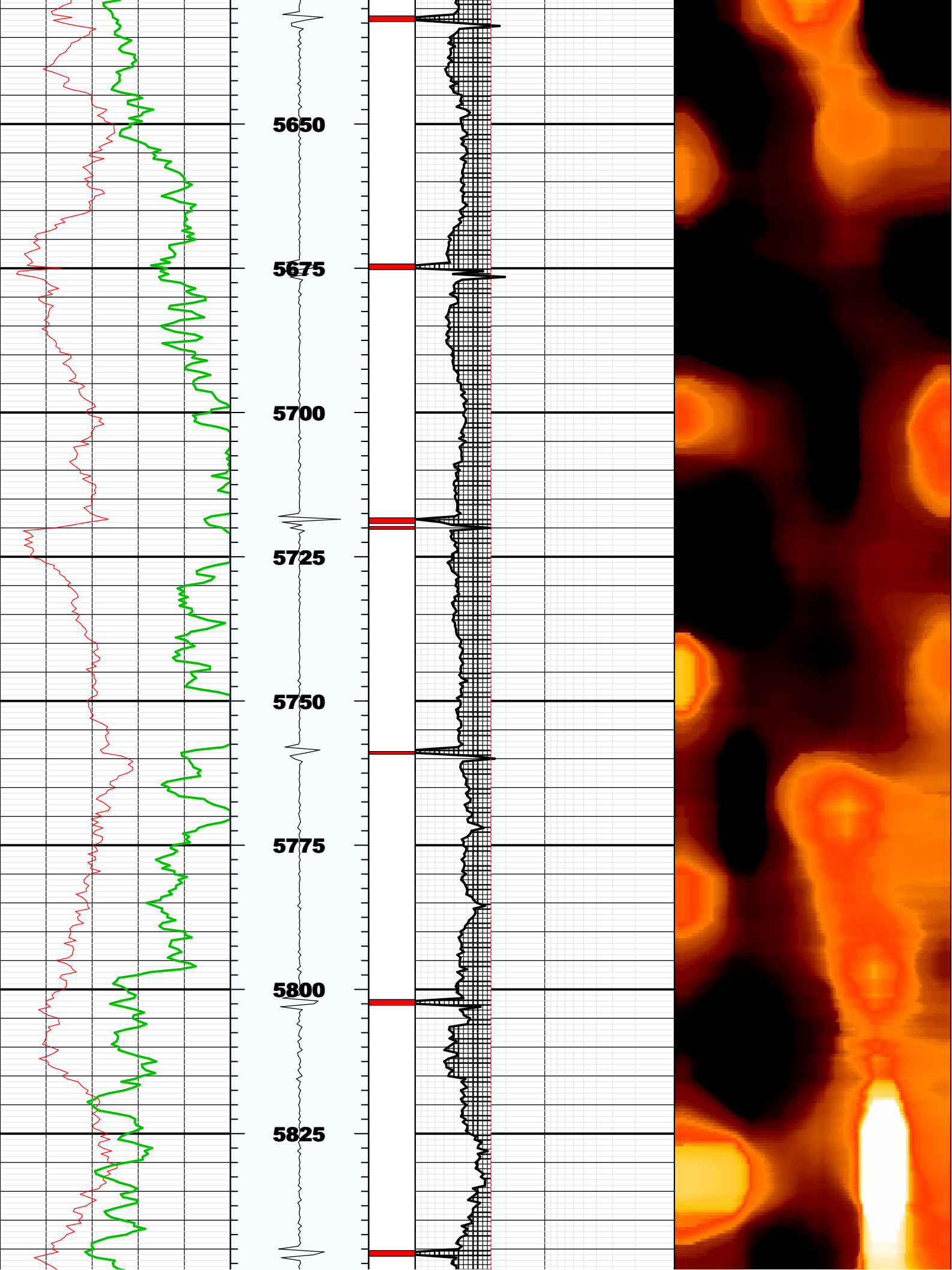


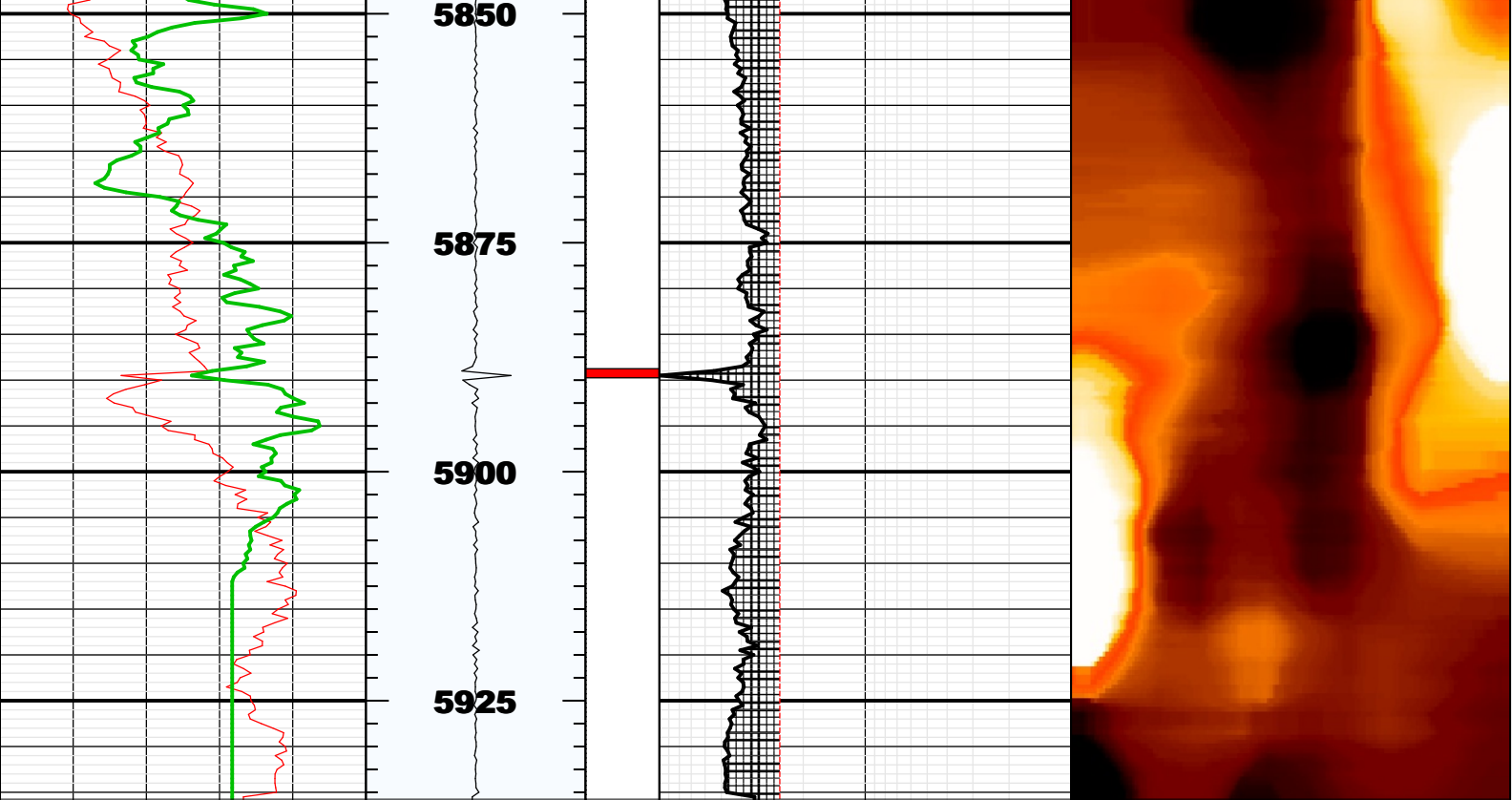








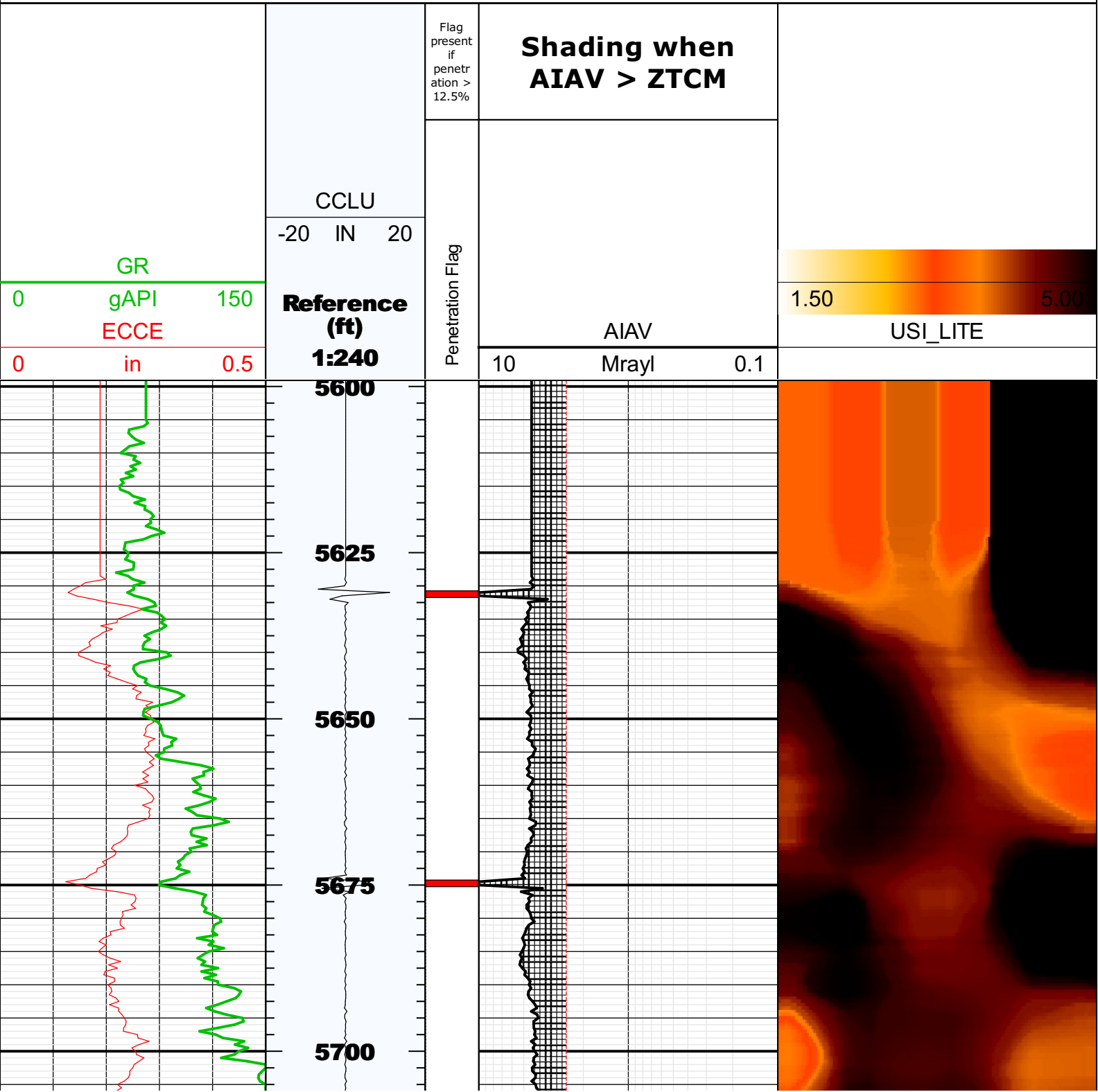


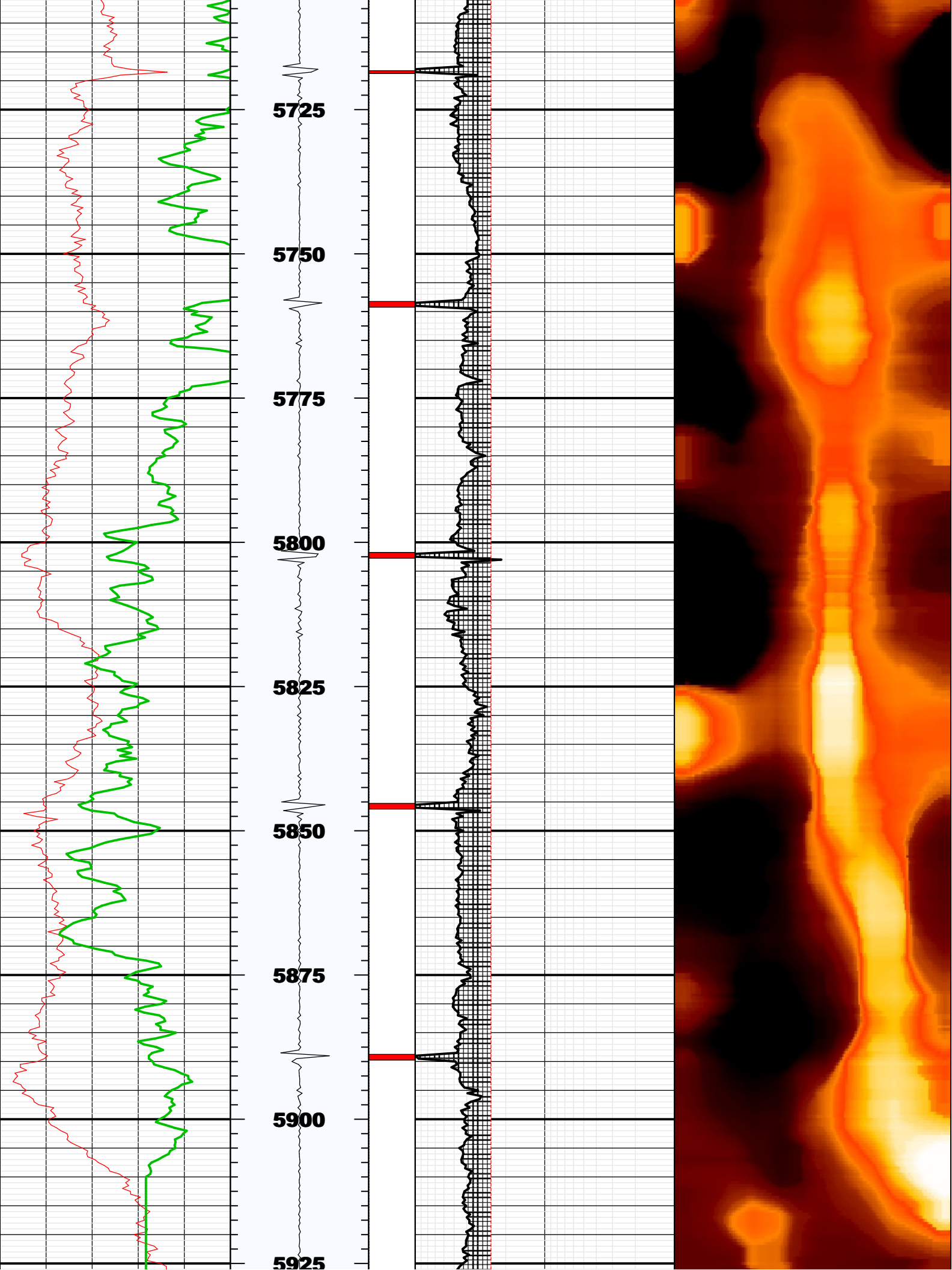


BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.50000	LB/G	Drilling Fluid Density
DFVL	206.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	80	V	EMEX Voltage
FDII	0.00000	F	FPM Data Interpolation Interval
FSOD	0_OFF		Fluid Slowness Fits Casing Outer Diameter
LOGMODE			
PP			
STEP	-0.5	F	STEP
THDH	130.00000	%	Maximum Search Thickness (percentage of nominal)
THDL	70.00000	%	Minimum Search Thickness (percentage of nominal)
THDP	Fundamental		Thickness Detection Policy
THNO	0.36200	IN	Nominal Thickness of Casing
TMUC	WRM		Type of Mud
U-USIT_DT3P			
UPAT	375K		Emission Pattern
USUB	7INC		USIT Sub Identifier
UWKM	D603010L		Working Mode
VCAS	51.40000	US/F	Ultrasonic Transversal Velocity in Casing
WINB	42.86486	US	Window Begin Time
WINE	69.04827	US	Window End Time
ZCAS	46.25000	MRAY	Acoustic Impedance of Casing
ZINI	-1.00000	MRAY	Initial Estimate of Cement Impedance
ZMUD	1.73000	MRAY	Acoustic Impedance of Mud
ZTCM	2.60000	MRAY	Acoustic Impedance Threshold for Cement
ZTGS	0.30000	MRAY	Acoustic Impedance Threshold for Gas
WLEN	15.36685	US	T^3 Processing Length

Repeat Pass

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Field: Wildcat







Fluid Properties Used for Main Pass

