

Company: Noble Energy Inc

Well: Brecken LD28-727
Field: Wattenberg
County: Weld

State: Colorado

County: Weld			
Field: Wattenberg			
Location: SWSE Sec 28 T9N R58W			
Well: Brecken LD28-727			
Company: Noble Energy Inc			
USI-LITE	LOCATION		
	Permanent Datum: Log Measured From: Drilling Measured From:		GL KB KB
			Elev: K.B. 4853.0 F G.L. 4829.0 F D.F. 4853.0 F
	API Serial No. 05-123-41567	Section 28	Township 9N
	Range 58W		
	Logging Date 12-Sep-2015		
	Run Number ONE		
	Depth Driller 10568.0 F		
	Schlumberger Depth 10568.0 F		
	Bottom Log Interval 5965.0 F		
Top Log Interval 55.0 F			
Casing Fluid Level 8.0 F			
Salinity			
Density 8.40 LB/G			
Fluid Level 8.0 F			
BIT/CASING/TUBING STRING			
Bit Size 8.750 IN			
From 1115.3 F			
To 6285.3 F			
Casing Size 7.00 IN			
Weight 26.00 LB/F			
Grade N/A			
From 0.0 F			
To 6285.3 F			
Max Recorded Temp 198.0			
Logger on bottom (date) 12-Sep-2015			
Location Fort Morgan CO			
Recorded By Evan Meadows			
Witnessed By			

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: Calibration Date: Calibrator Serial Number: Number Of Calibration Points: Calibration RMS: Calibration Peak Error:	Serial Number: Length: 24000.00000

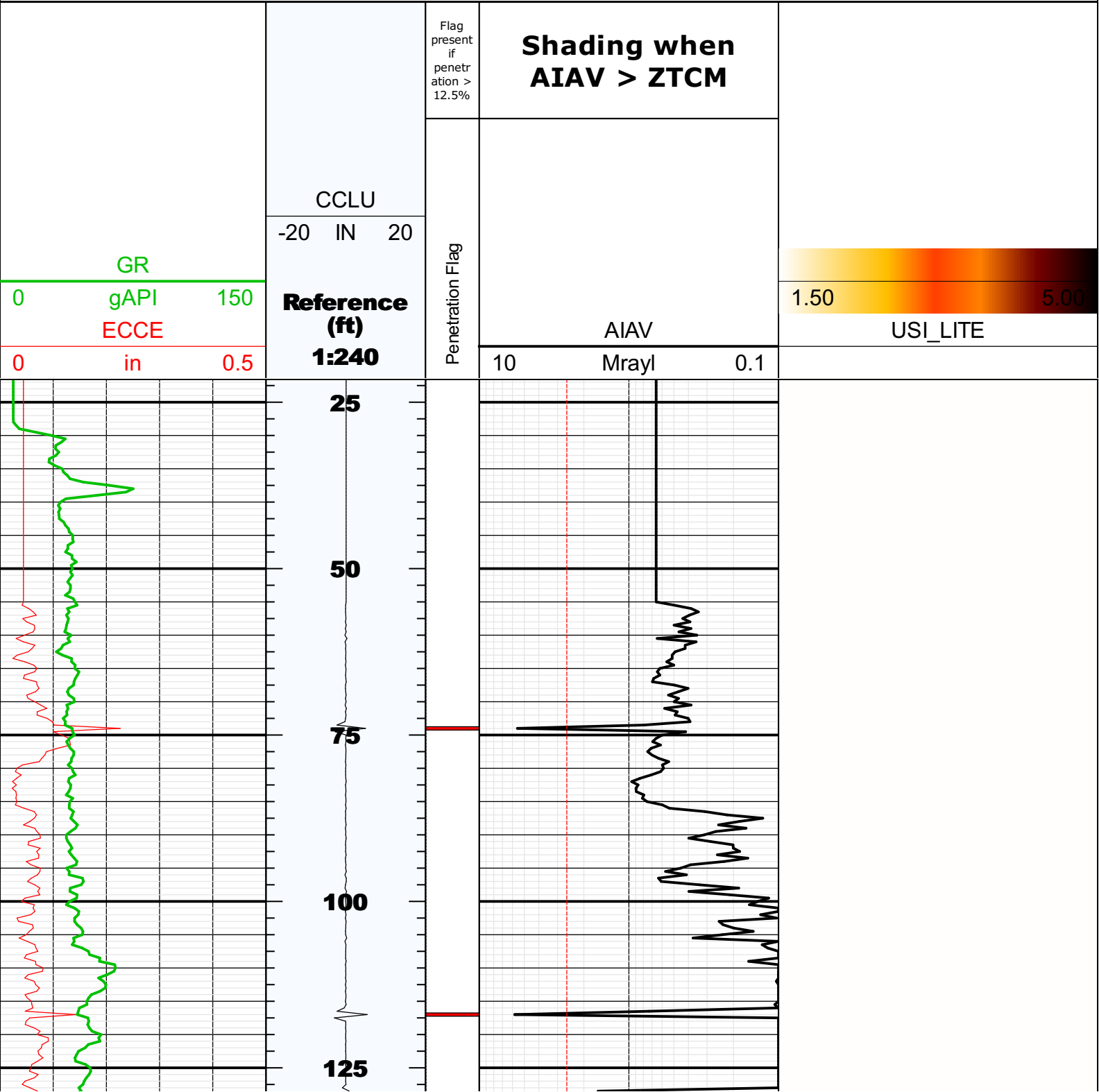
DISCLAIMER

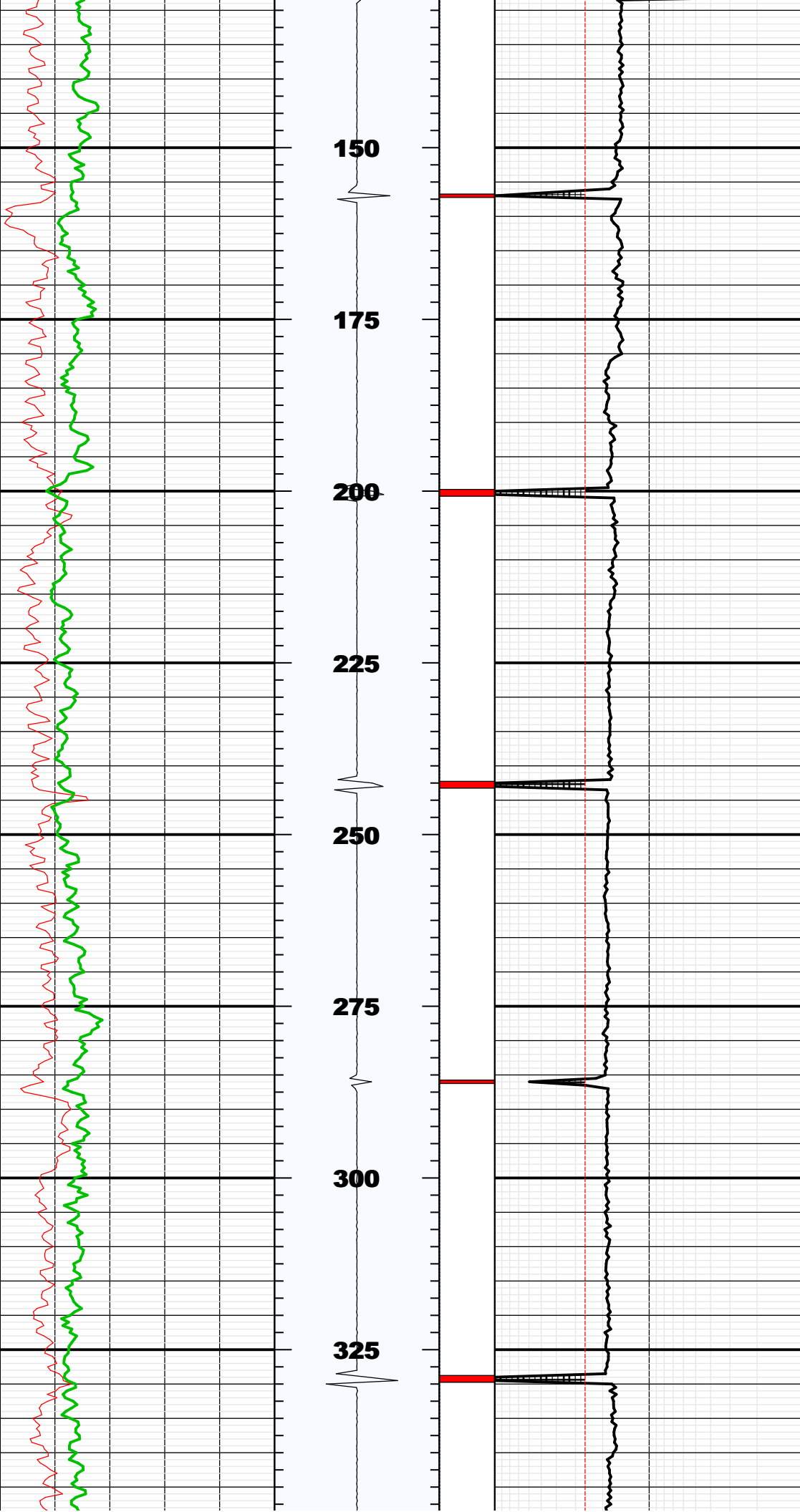
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRCTIONS ON USE OF THE RECORDED-DATA (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF ANR RELIANCE UPN THE RECORDED-DATA; AND (c)CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISIONS MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA

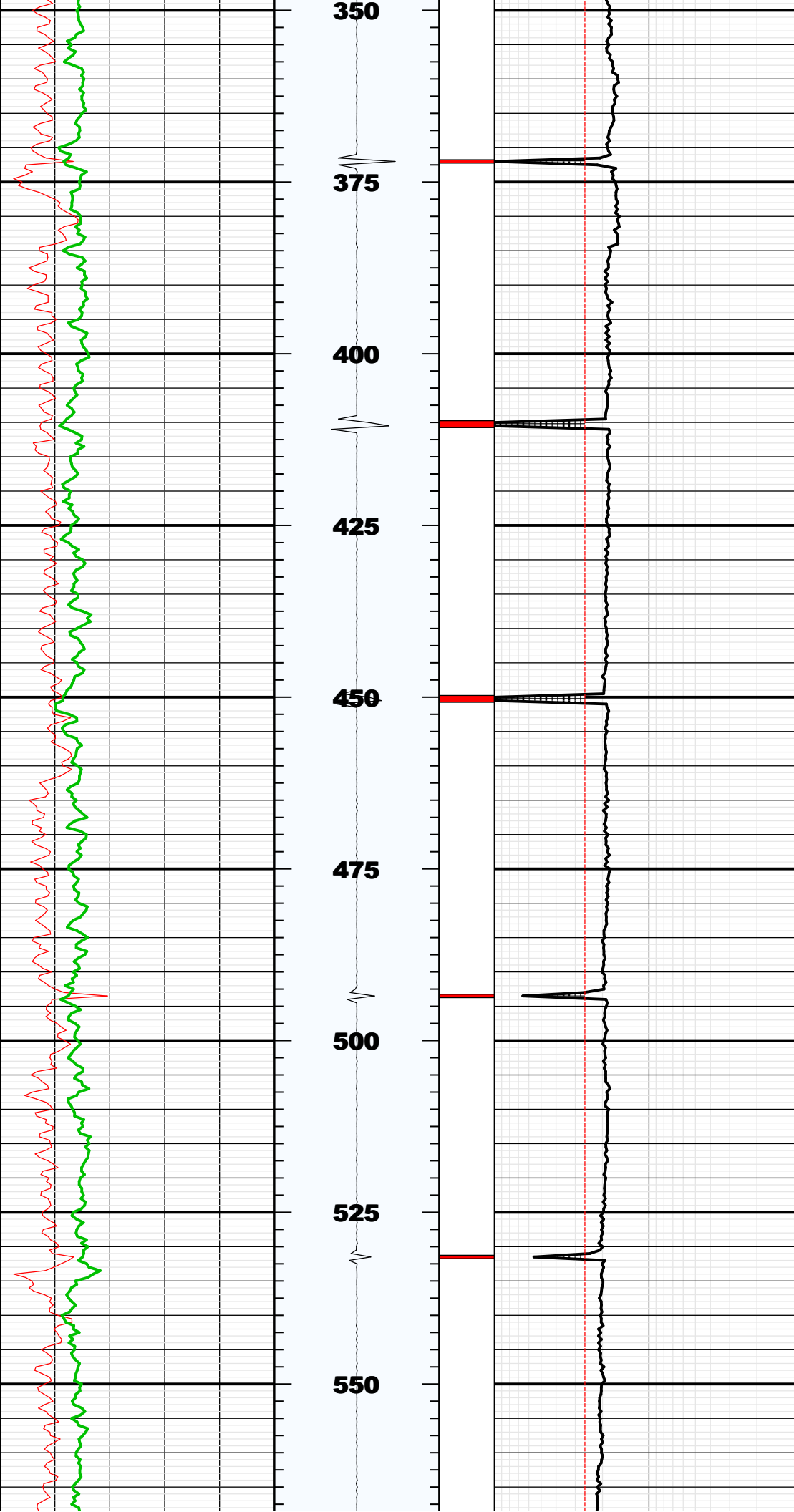
1. TOOL RAN AS PER TOOL SKETCH.
2. REPEAT PASS RECORDED AT 0 PSI MAIN PASS RECORDED AT 2500 PSI
3. BHT 198 DEG F
4. ESTIMATED TOC 1005'

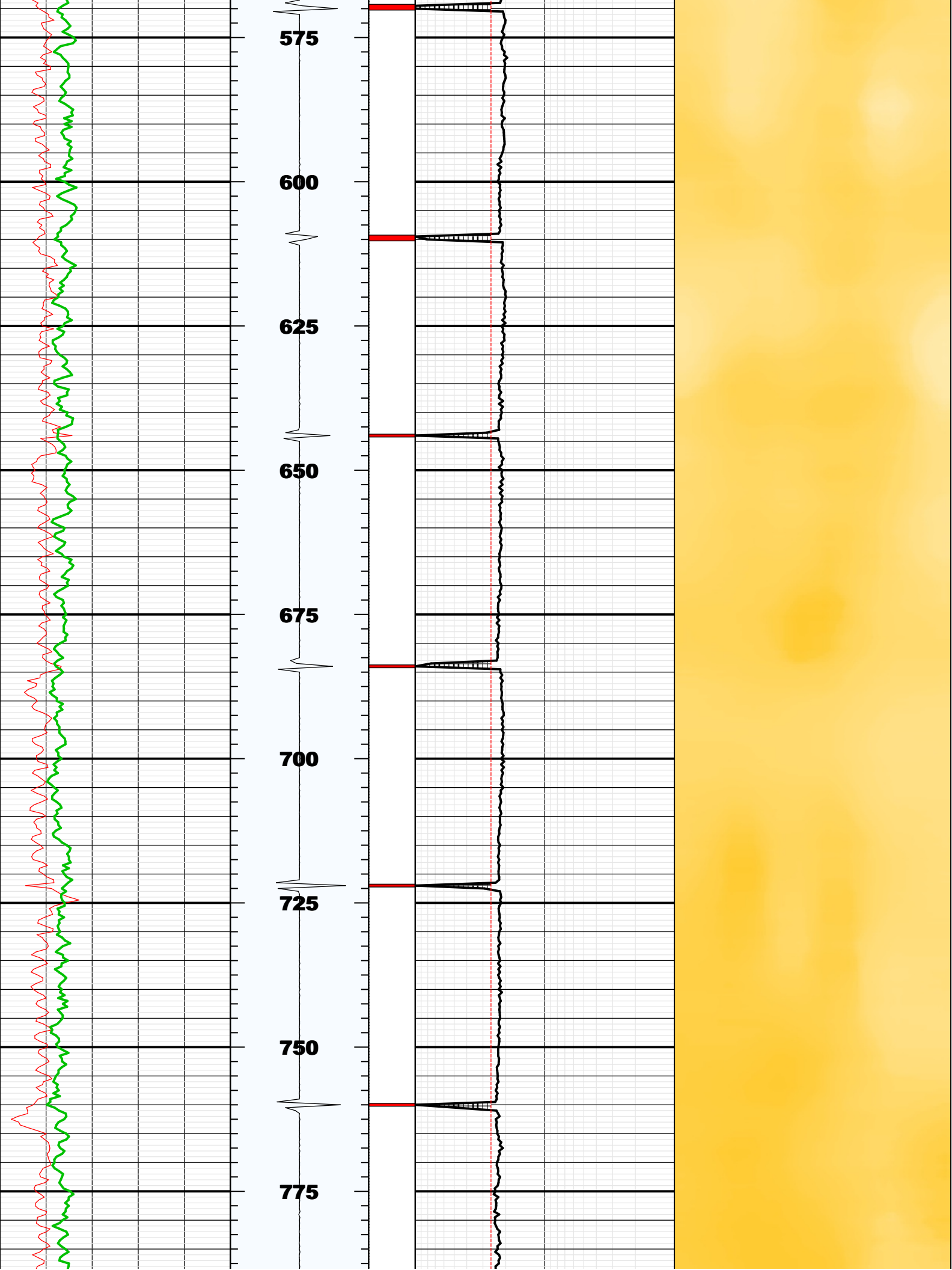
Main Pass

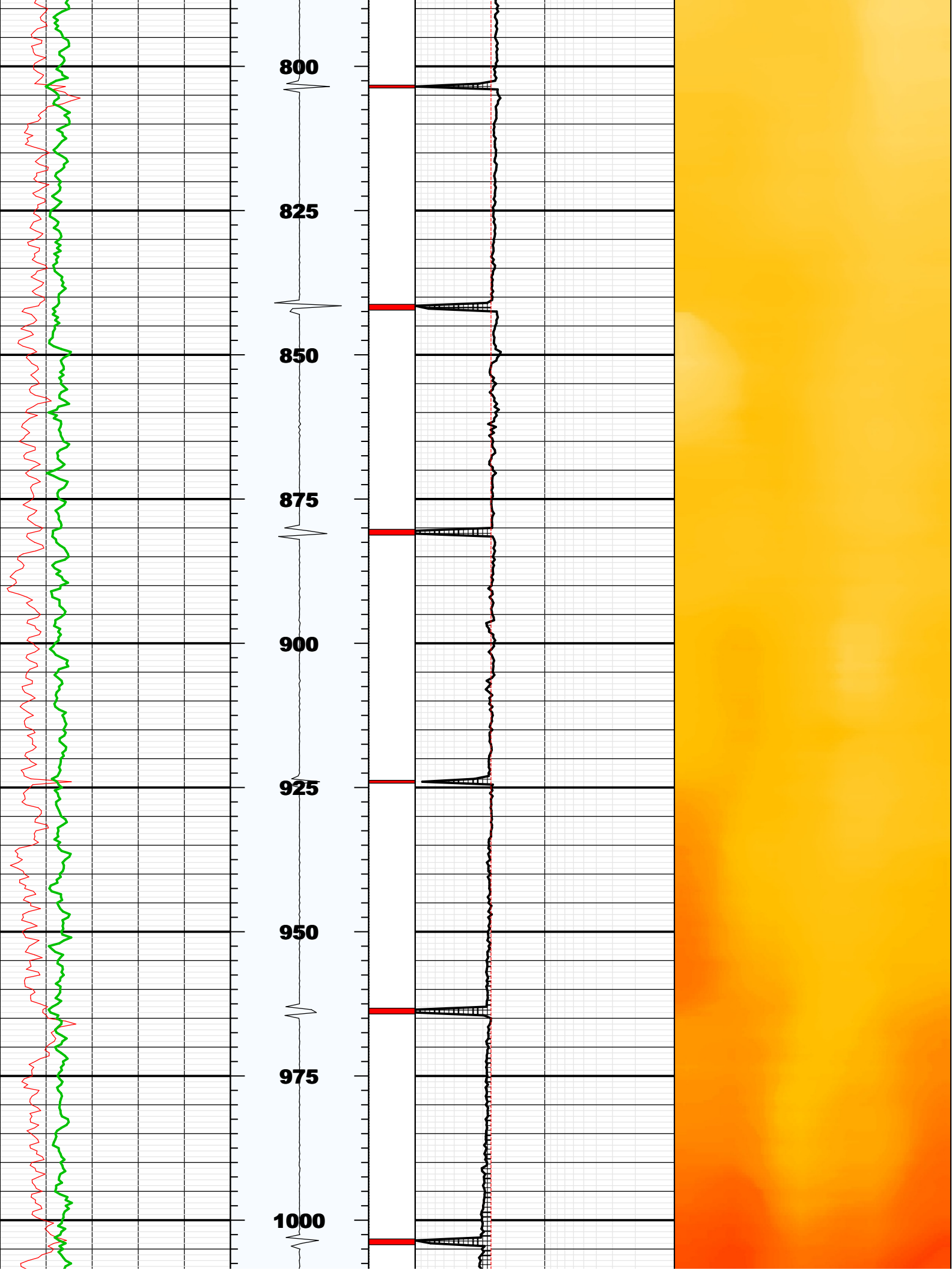
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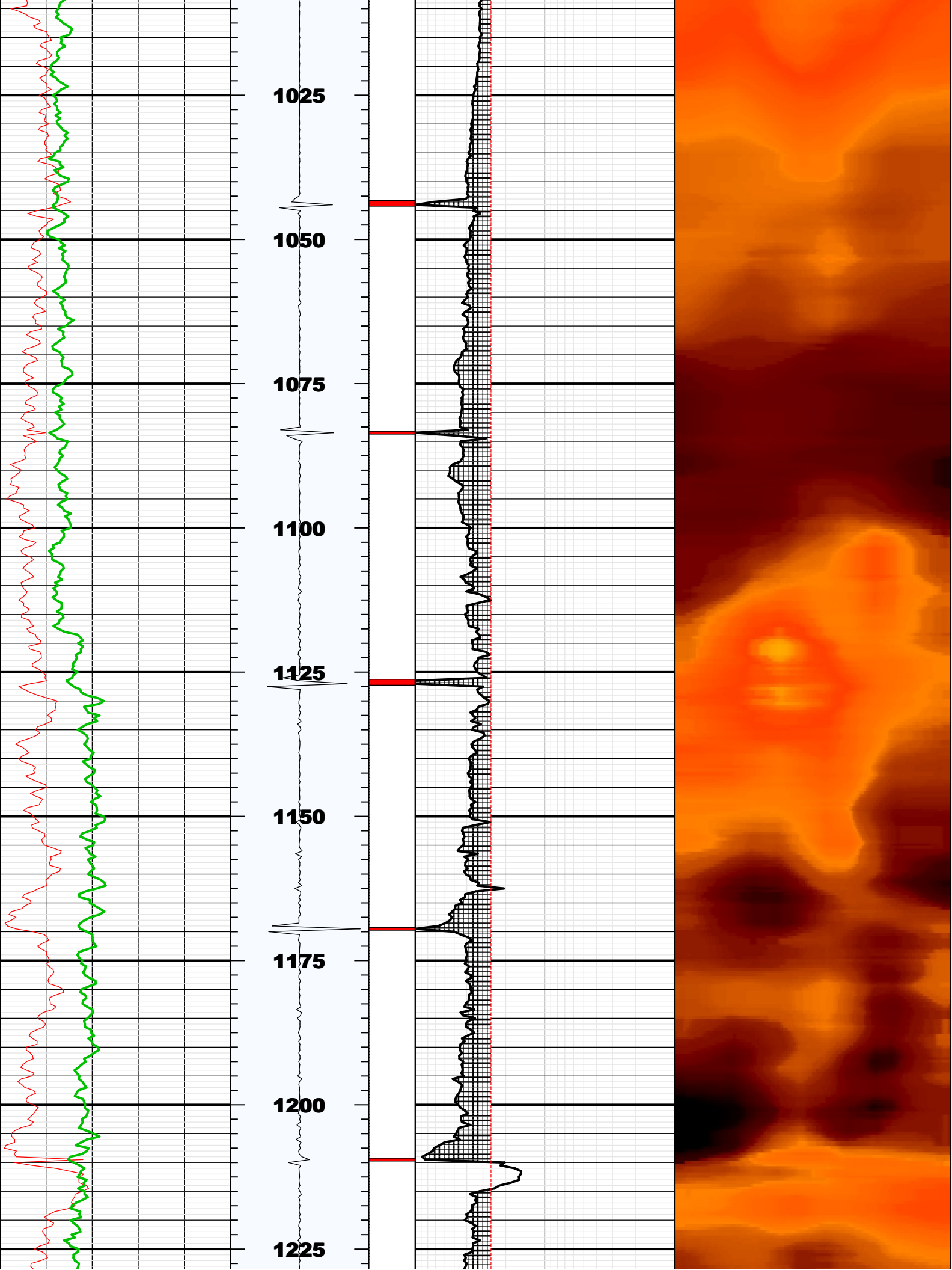


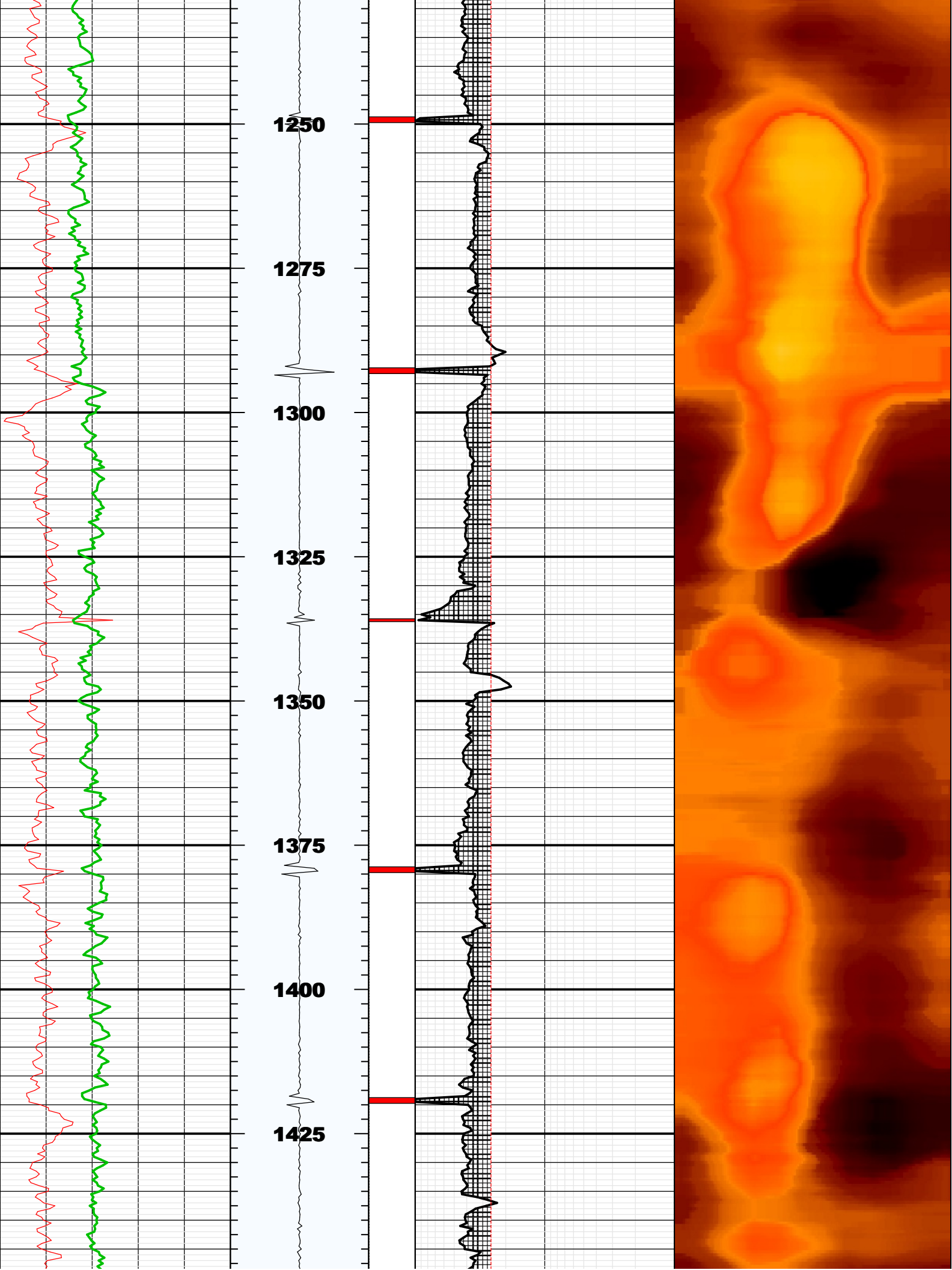


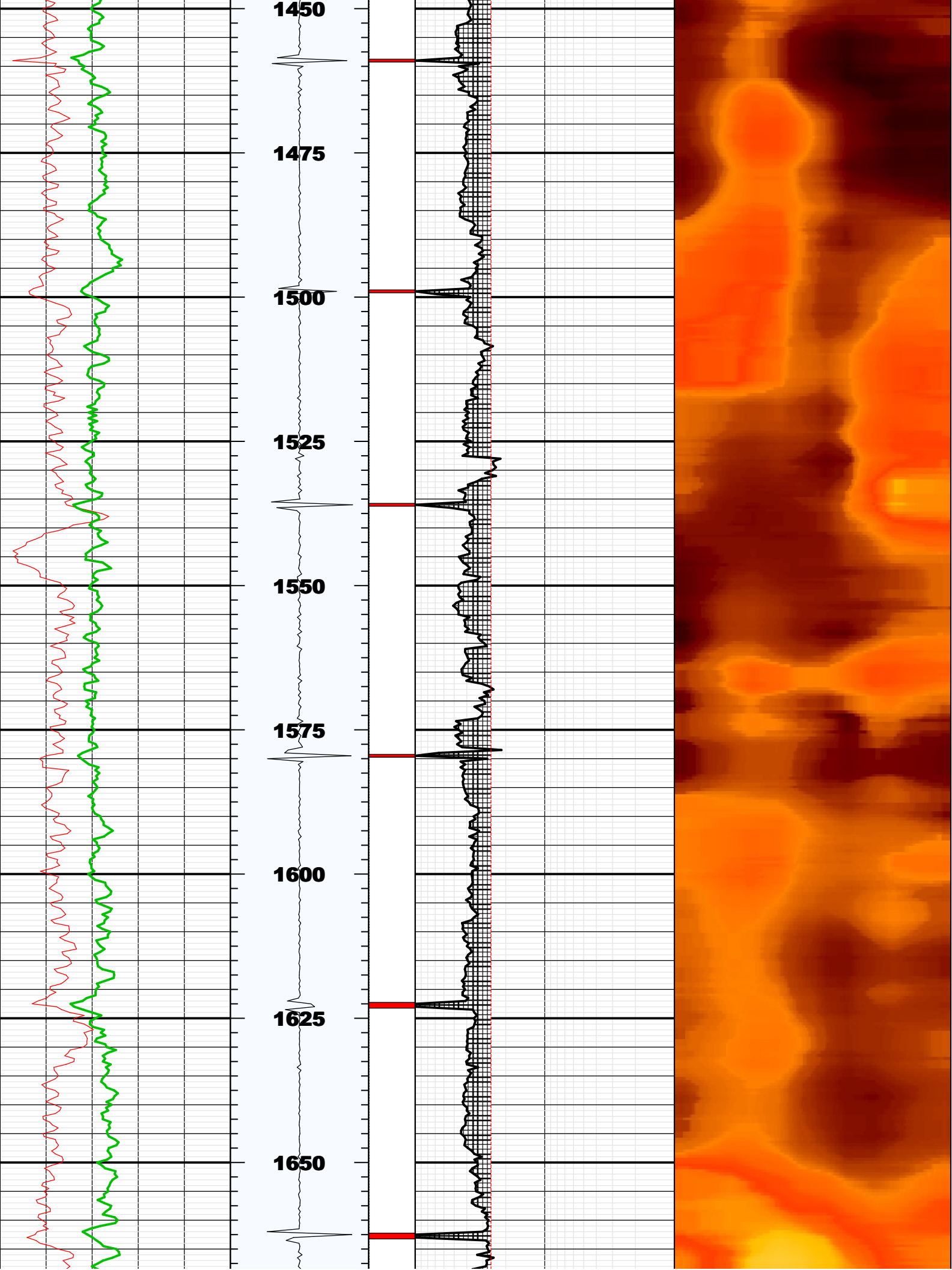


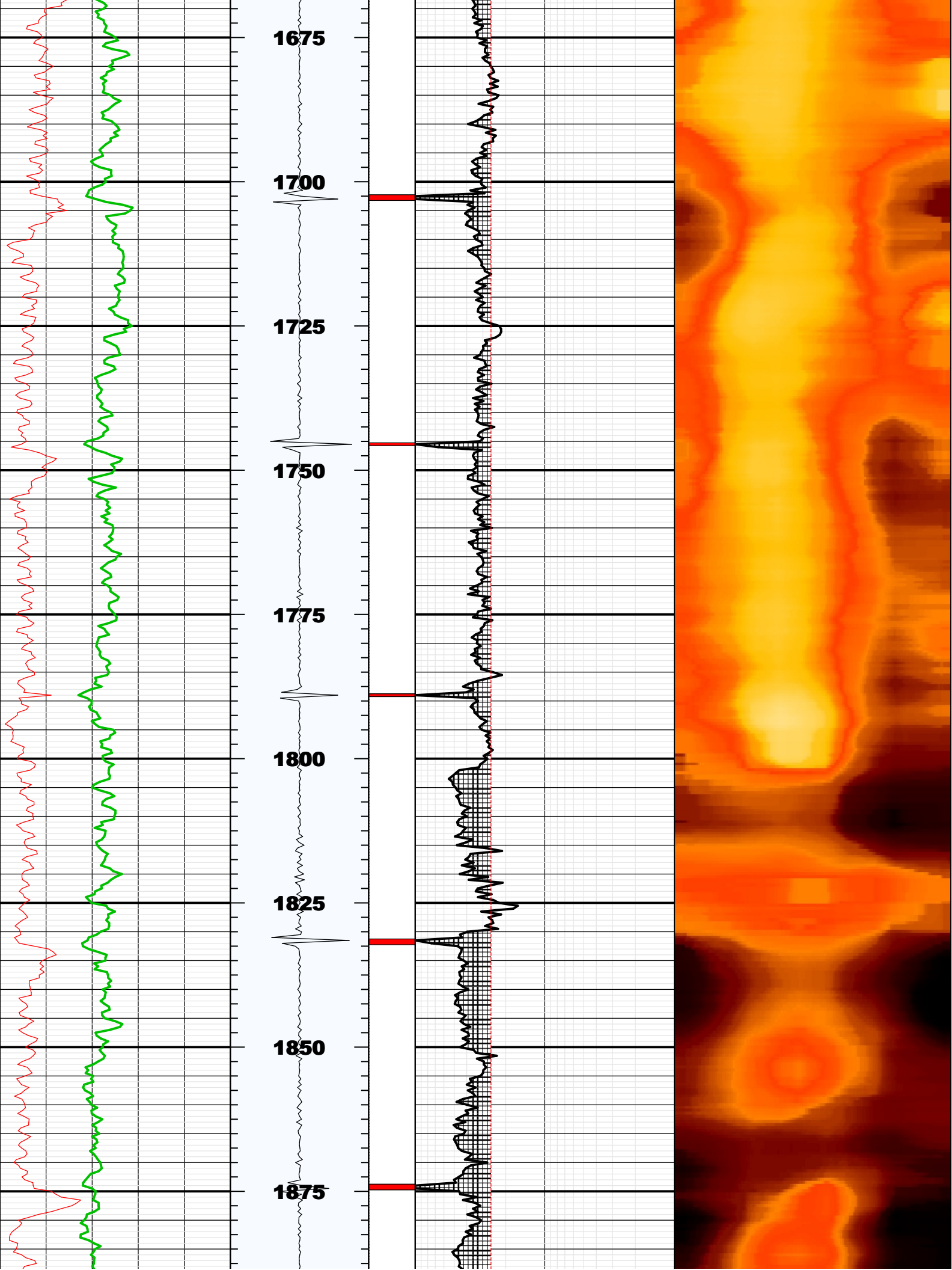


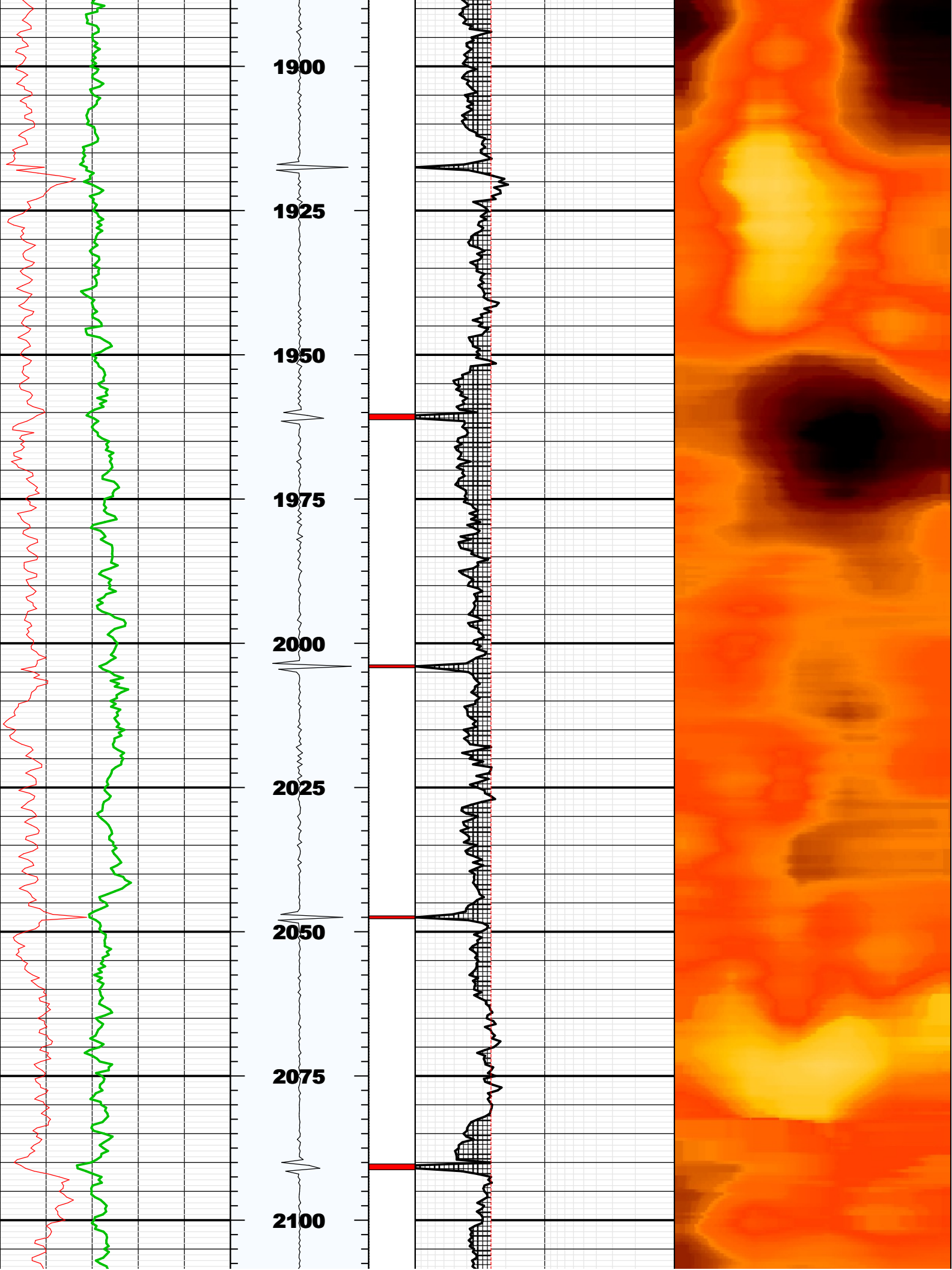


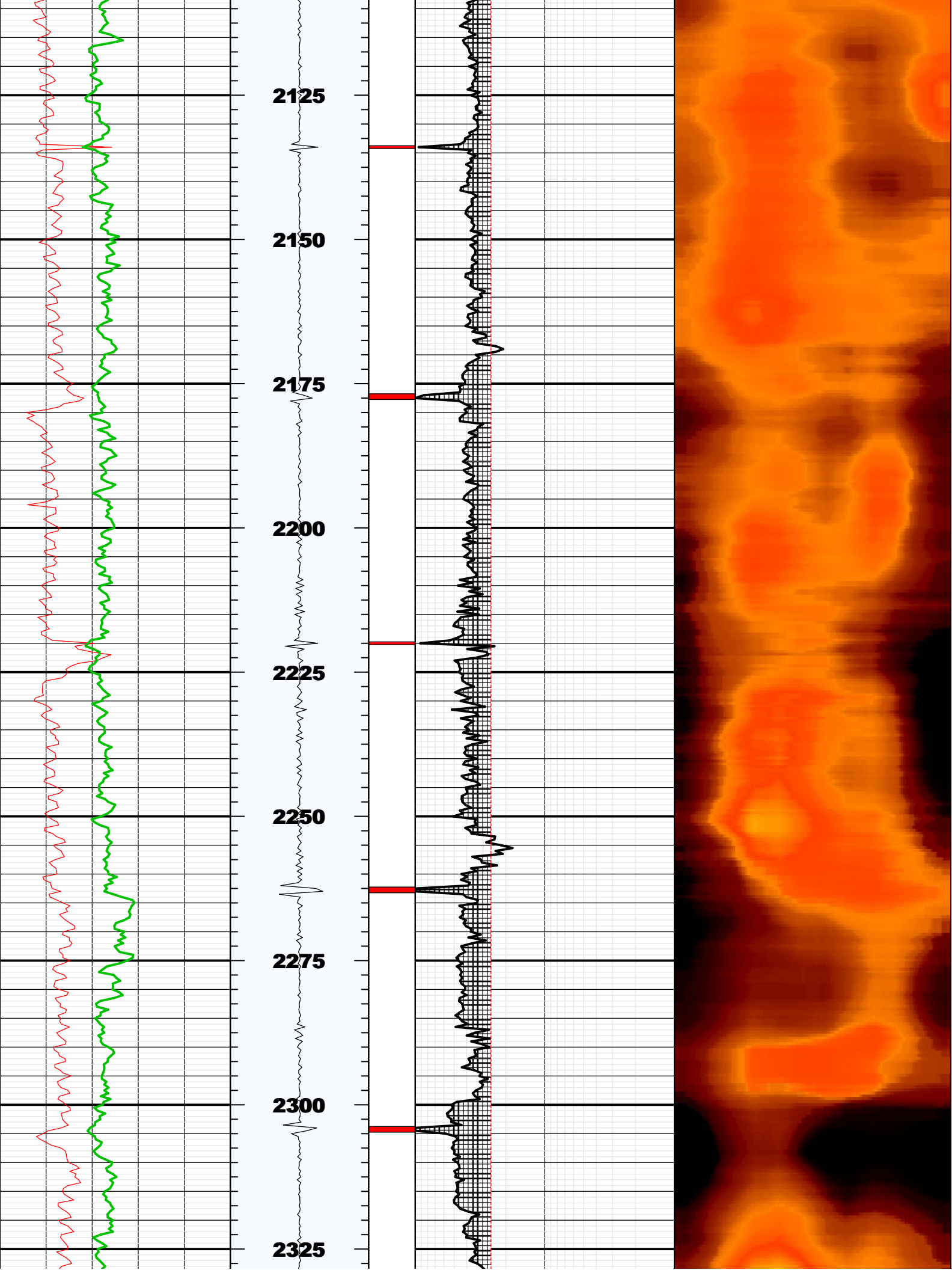


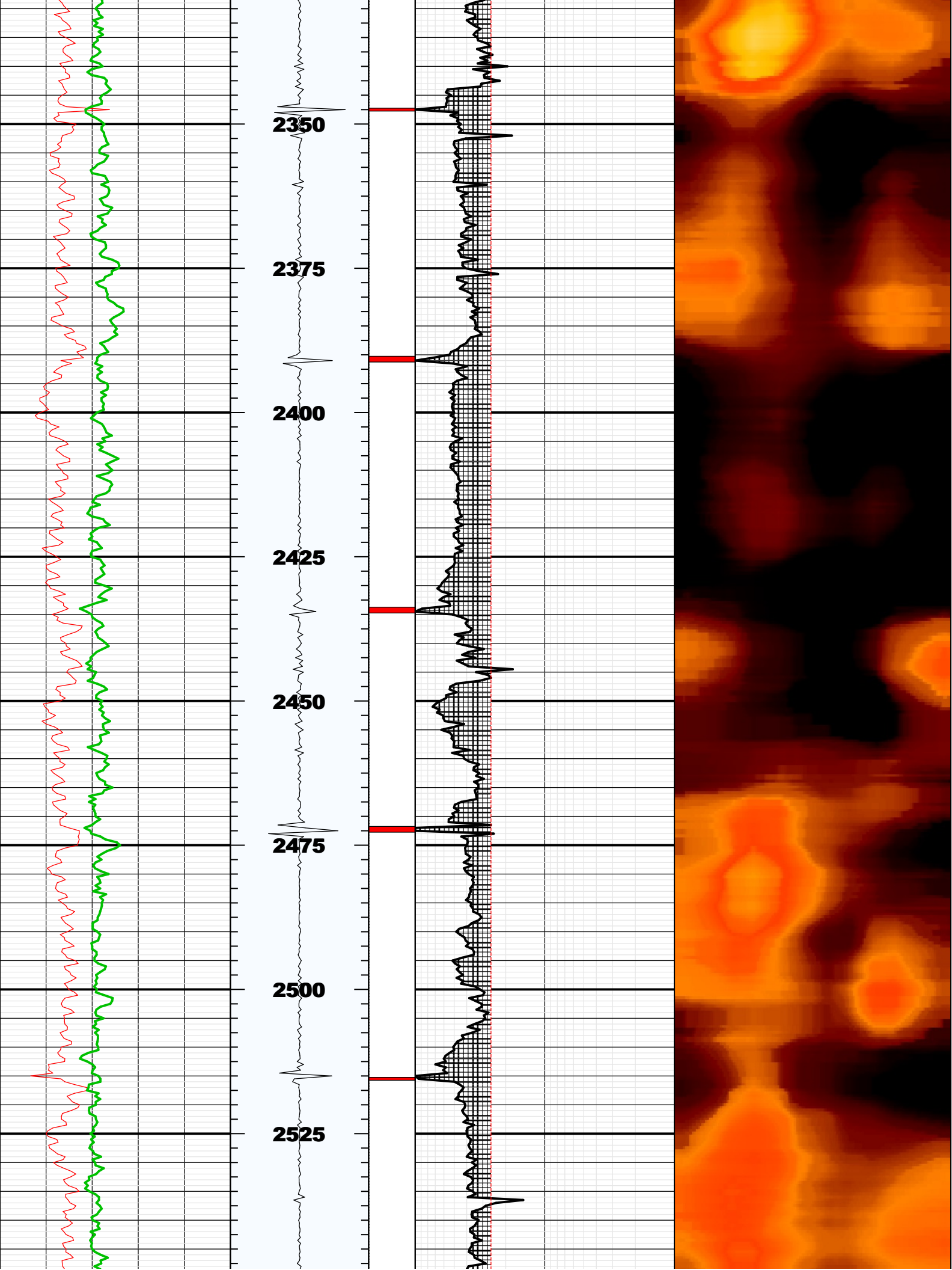


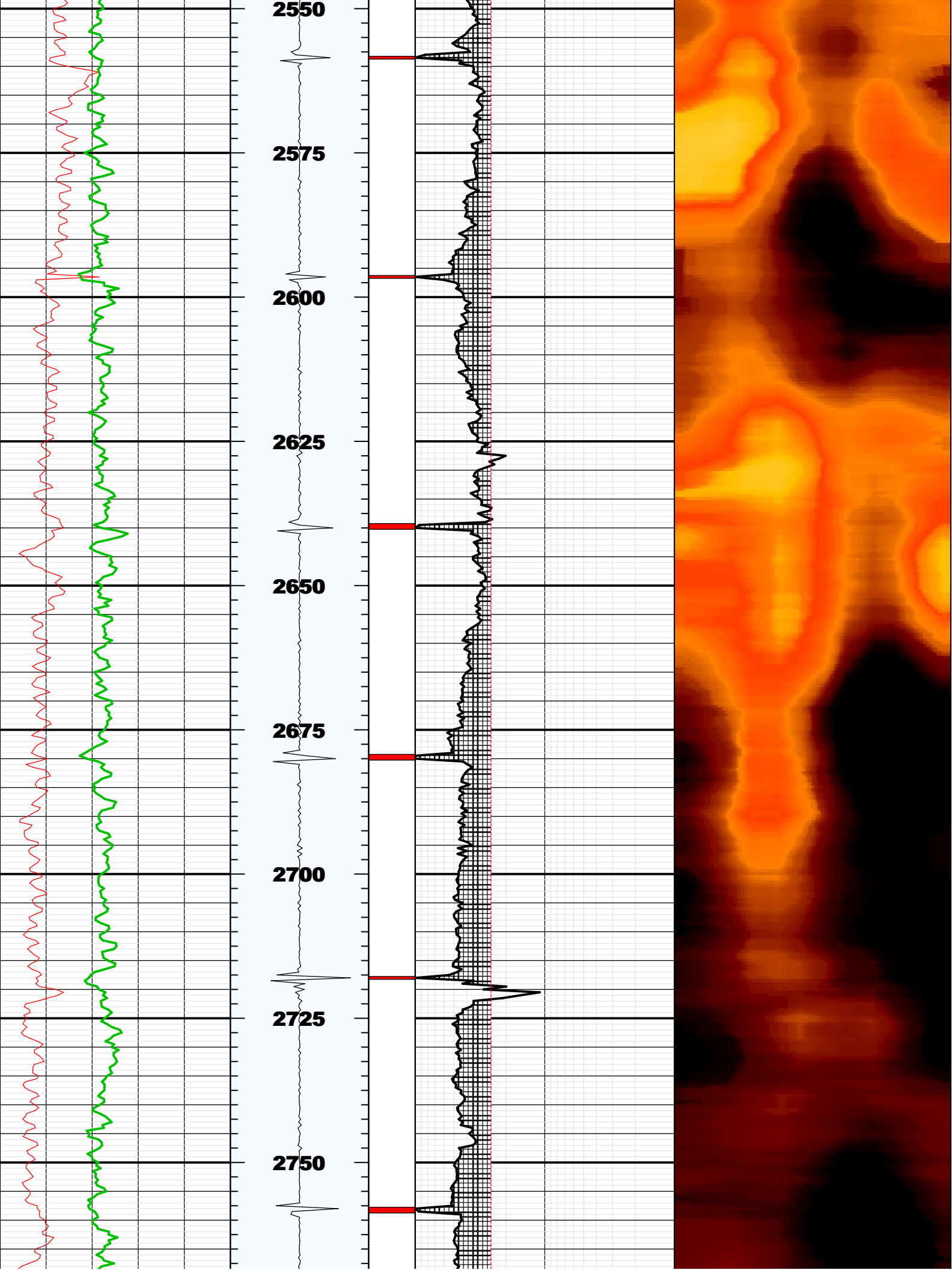


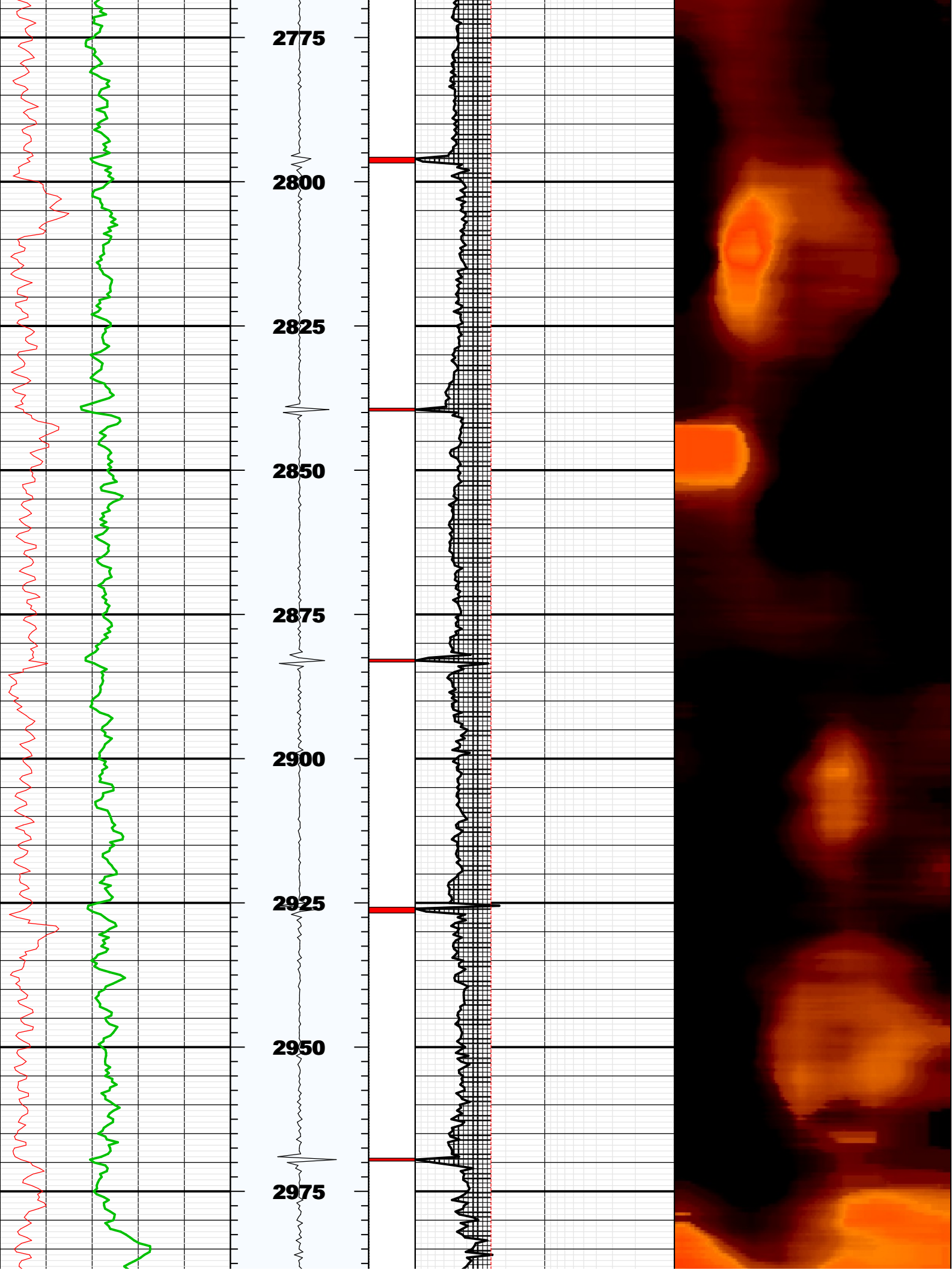


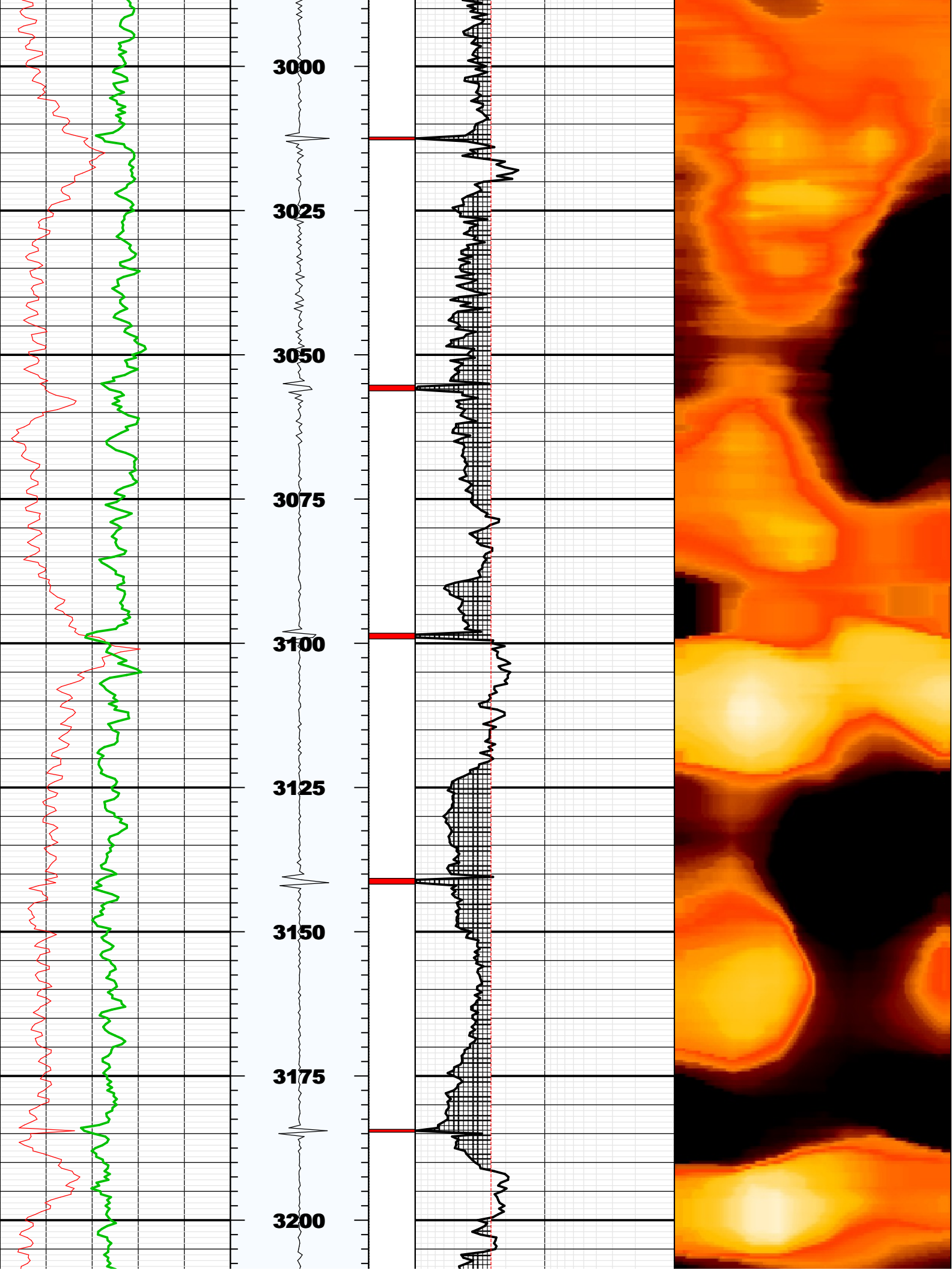


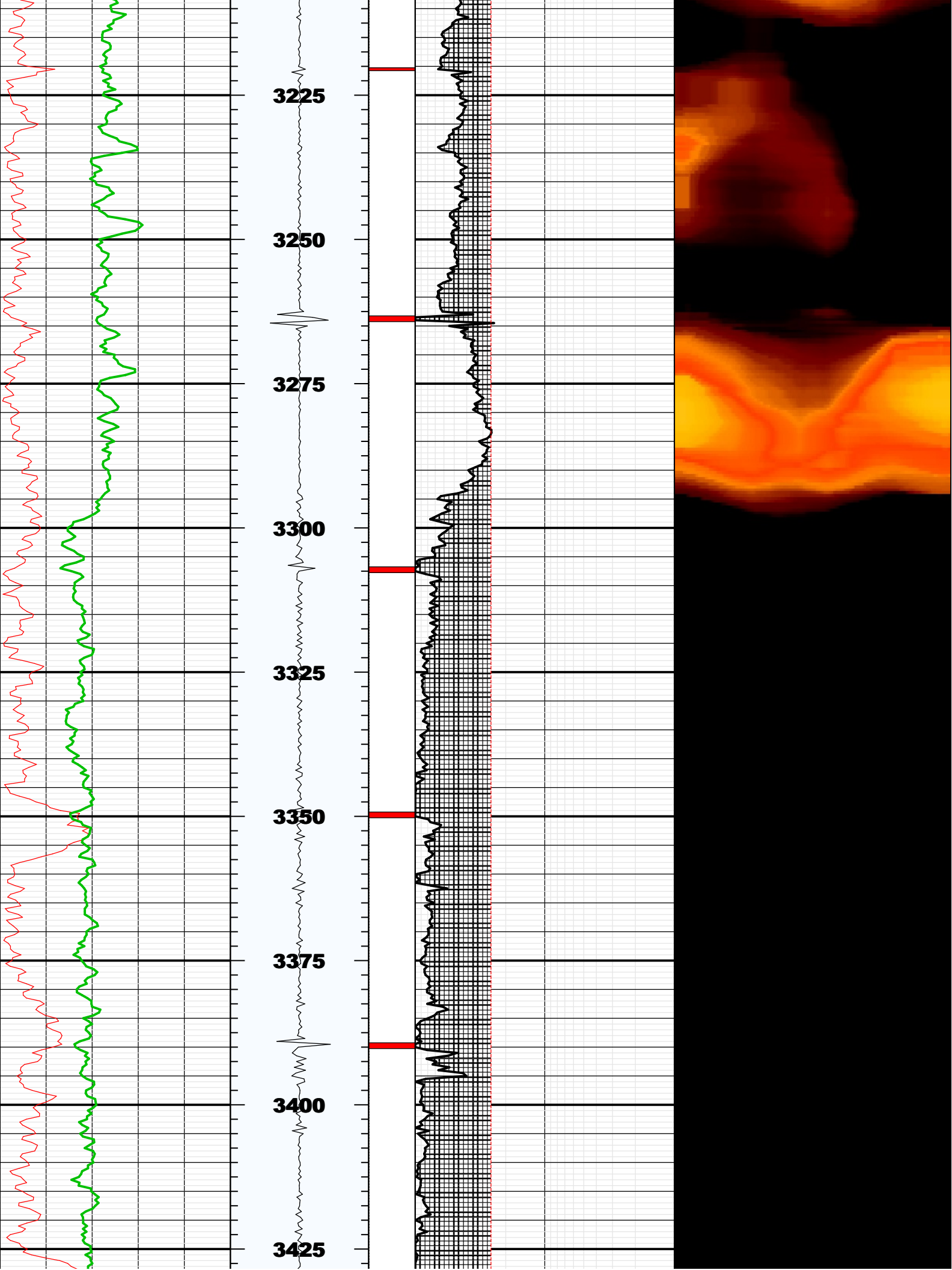


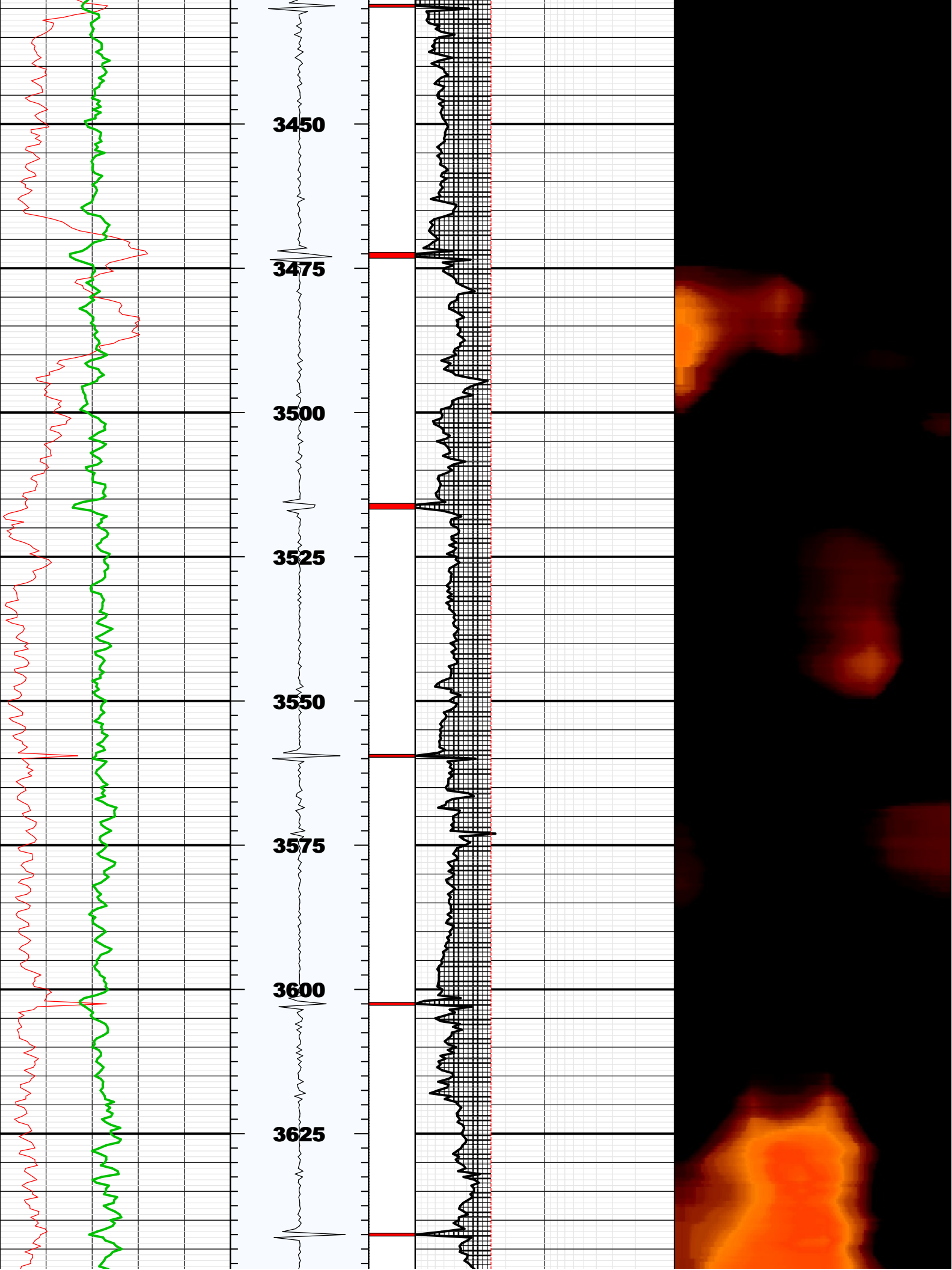


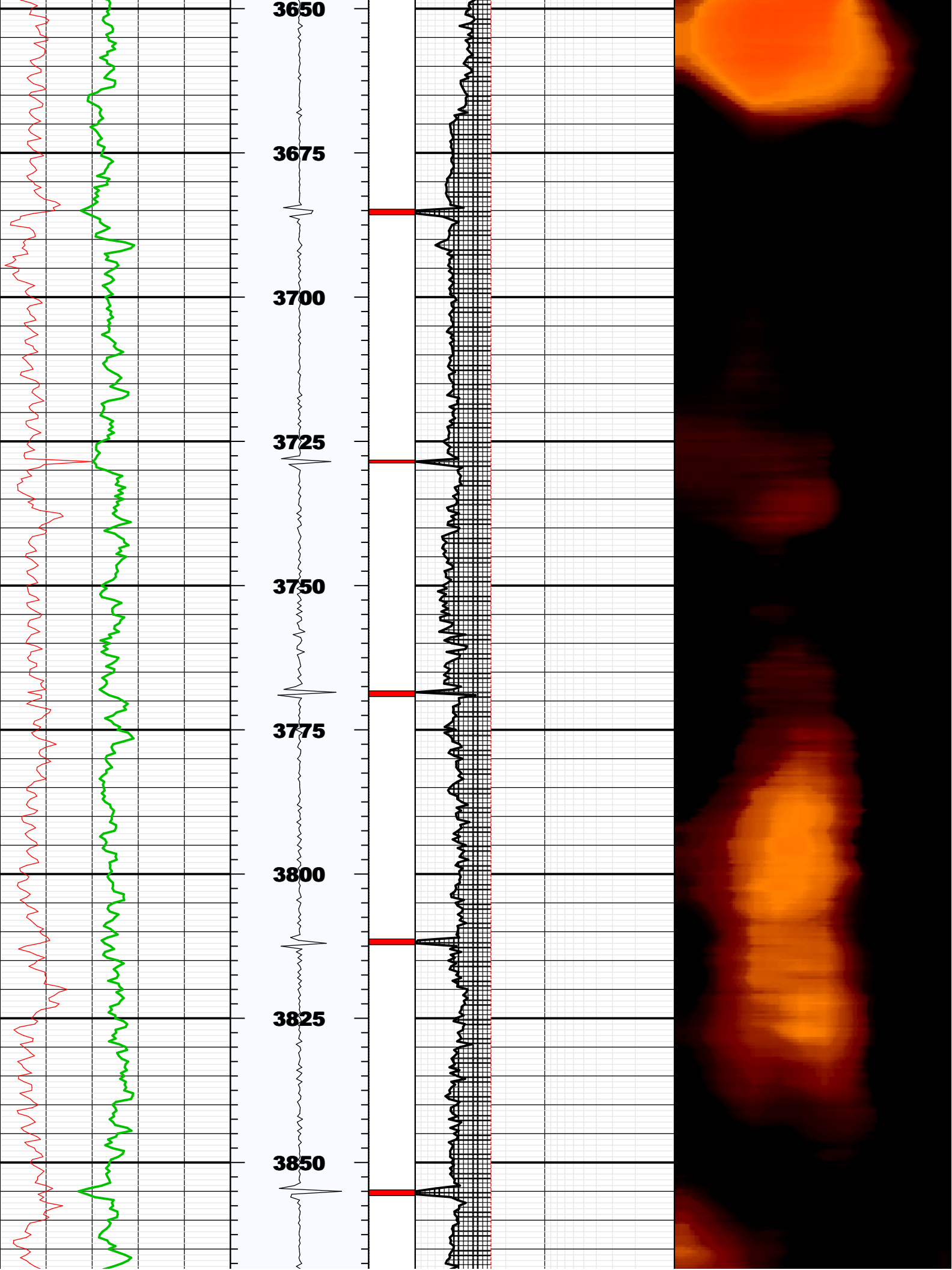


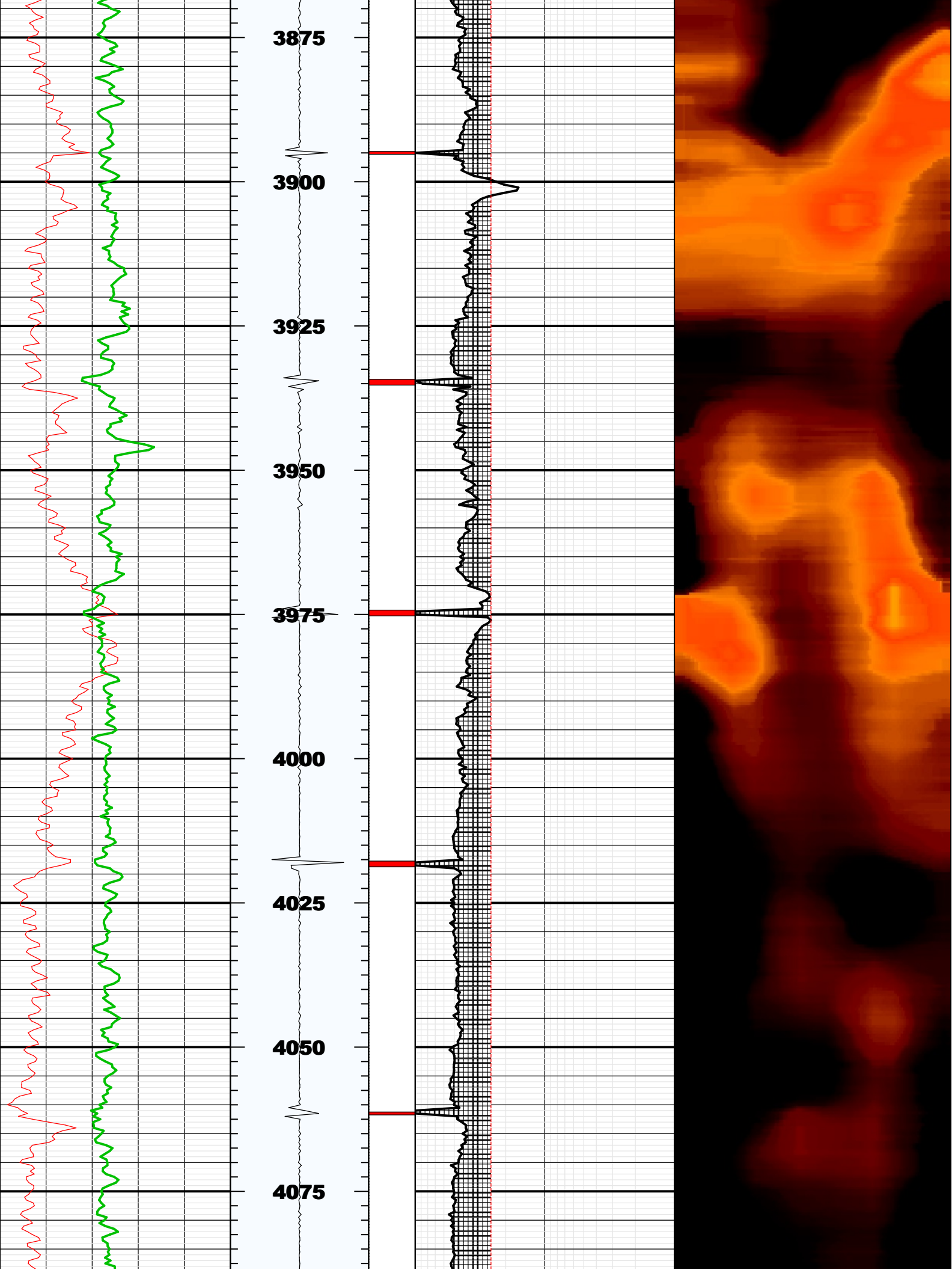


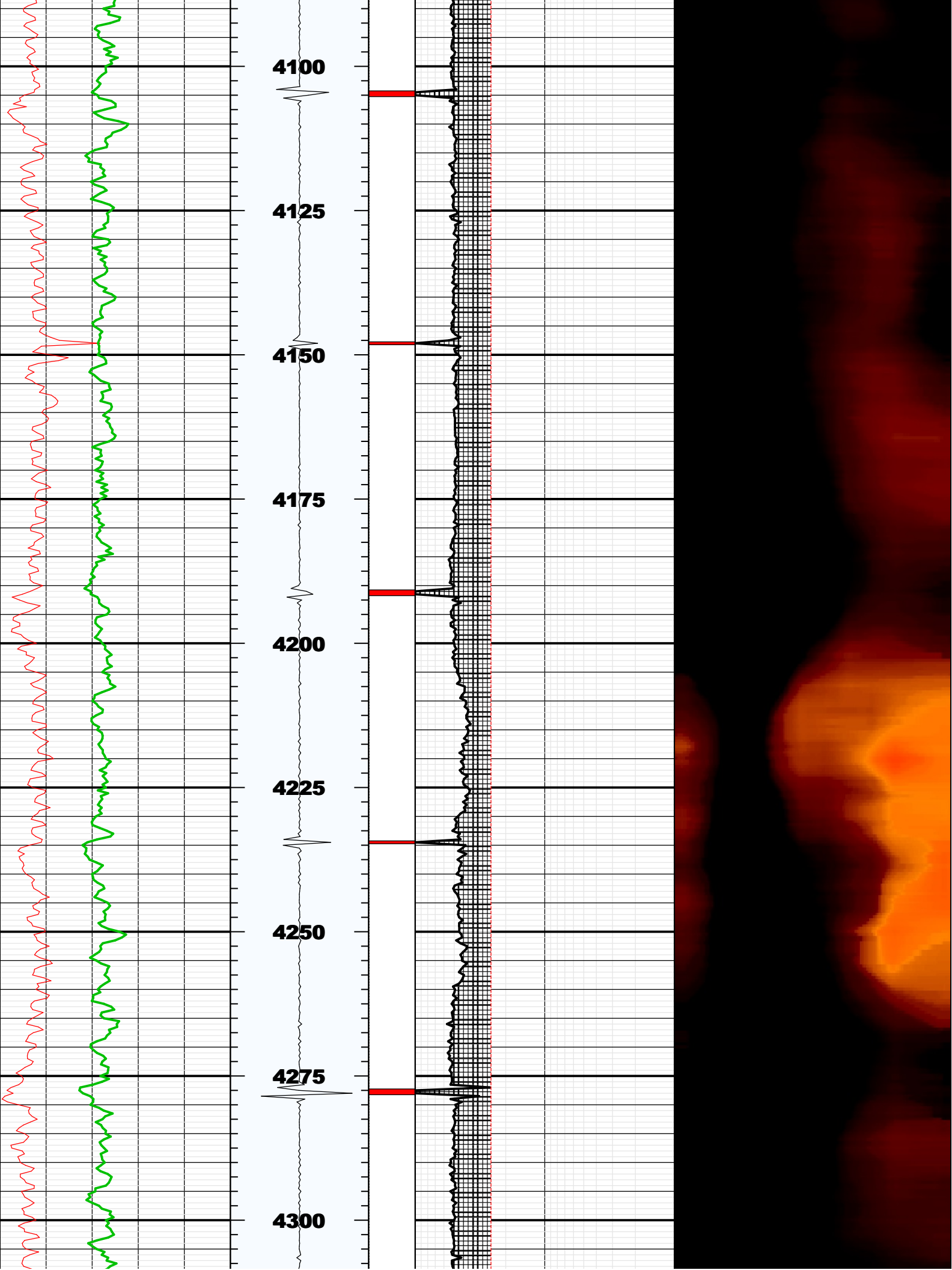


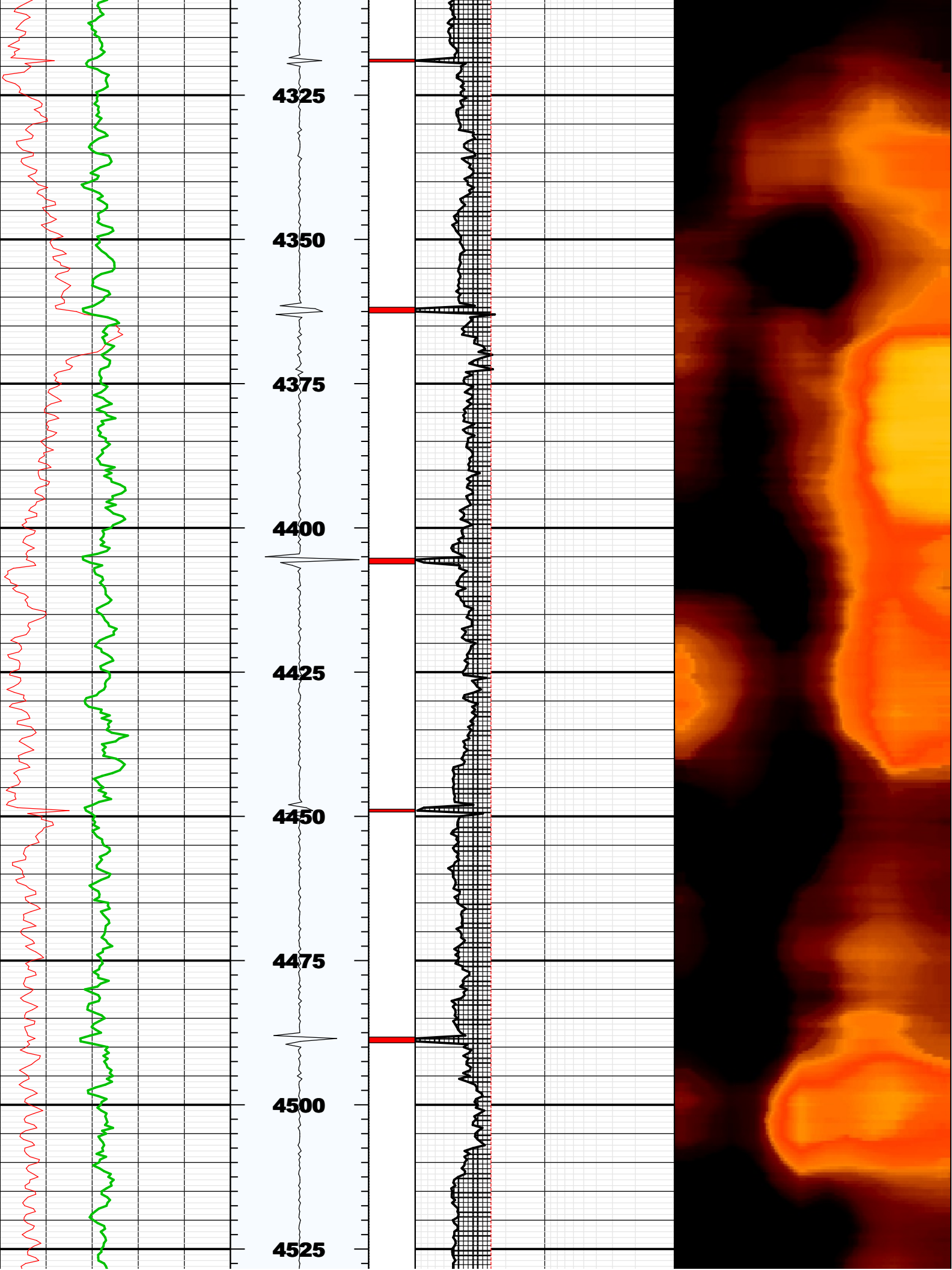


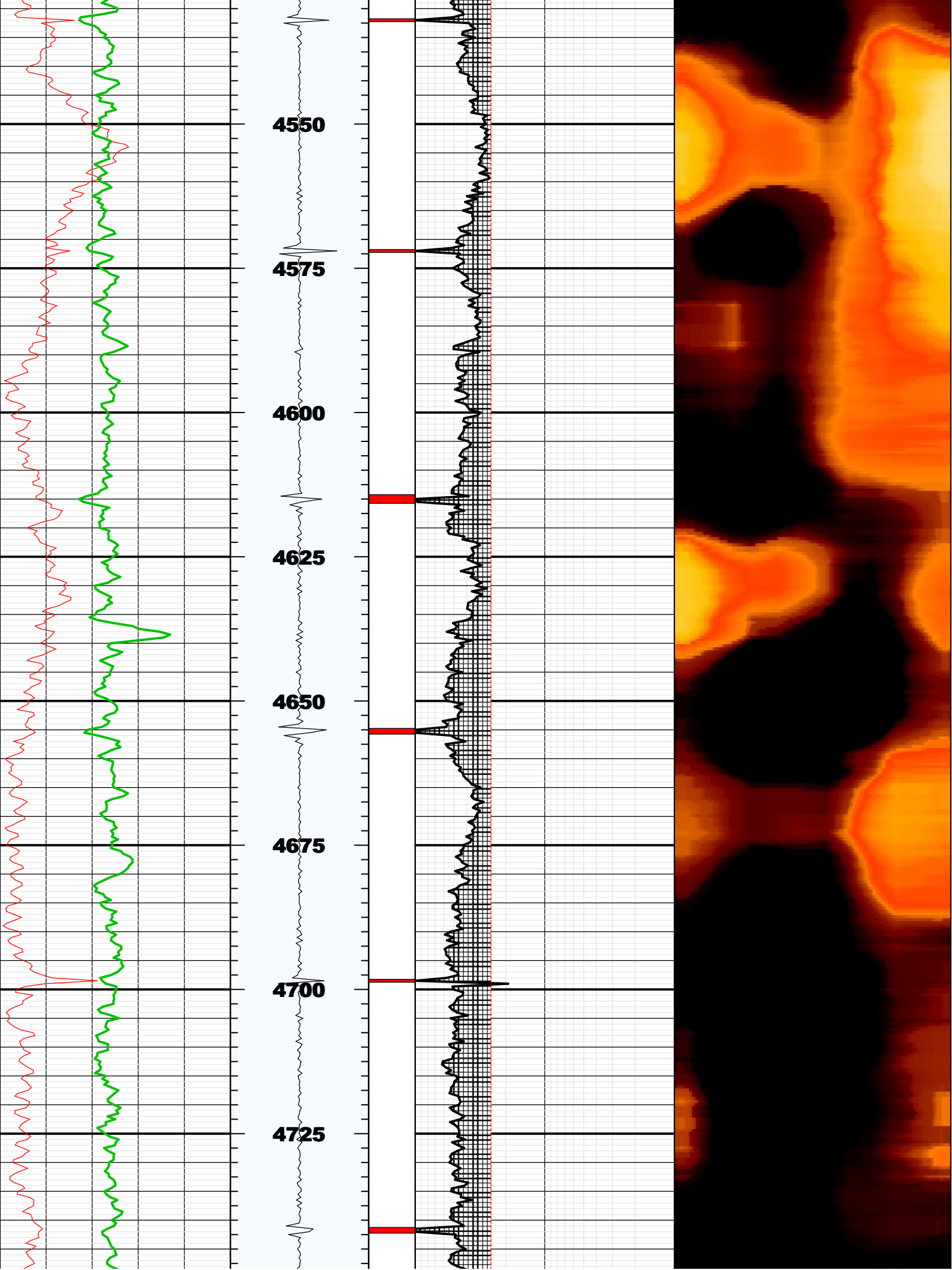


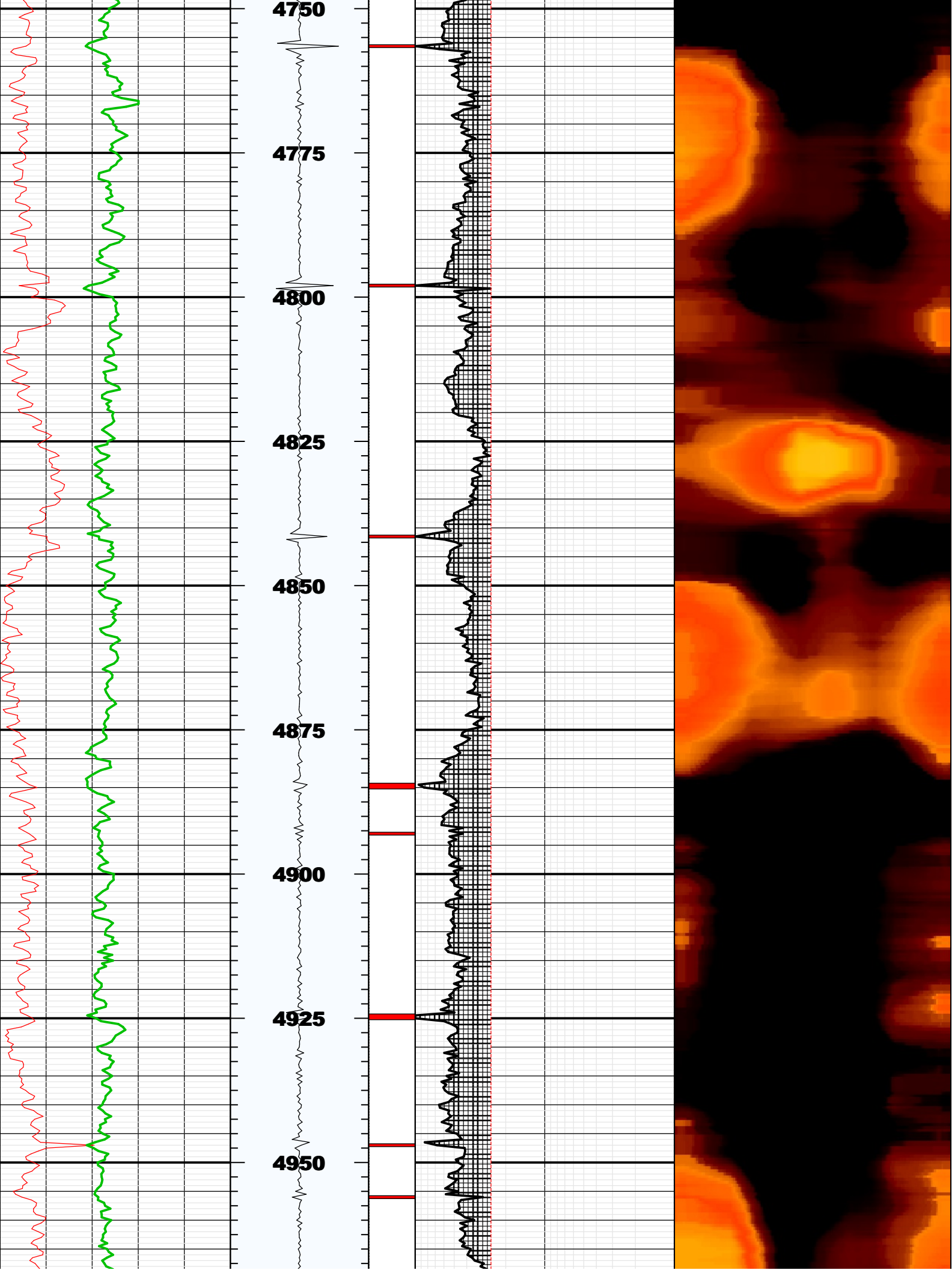


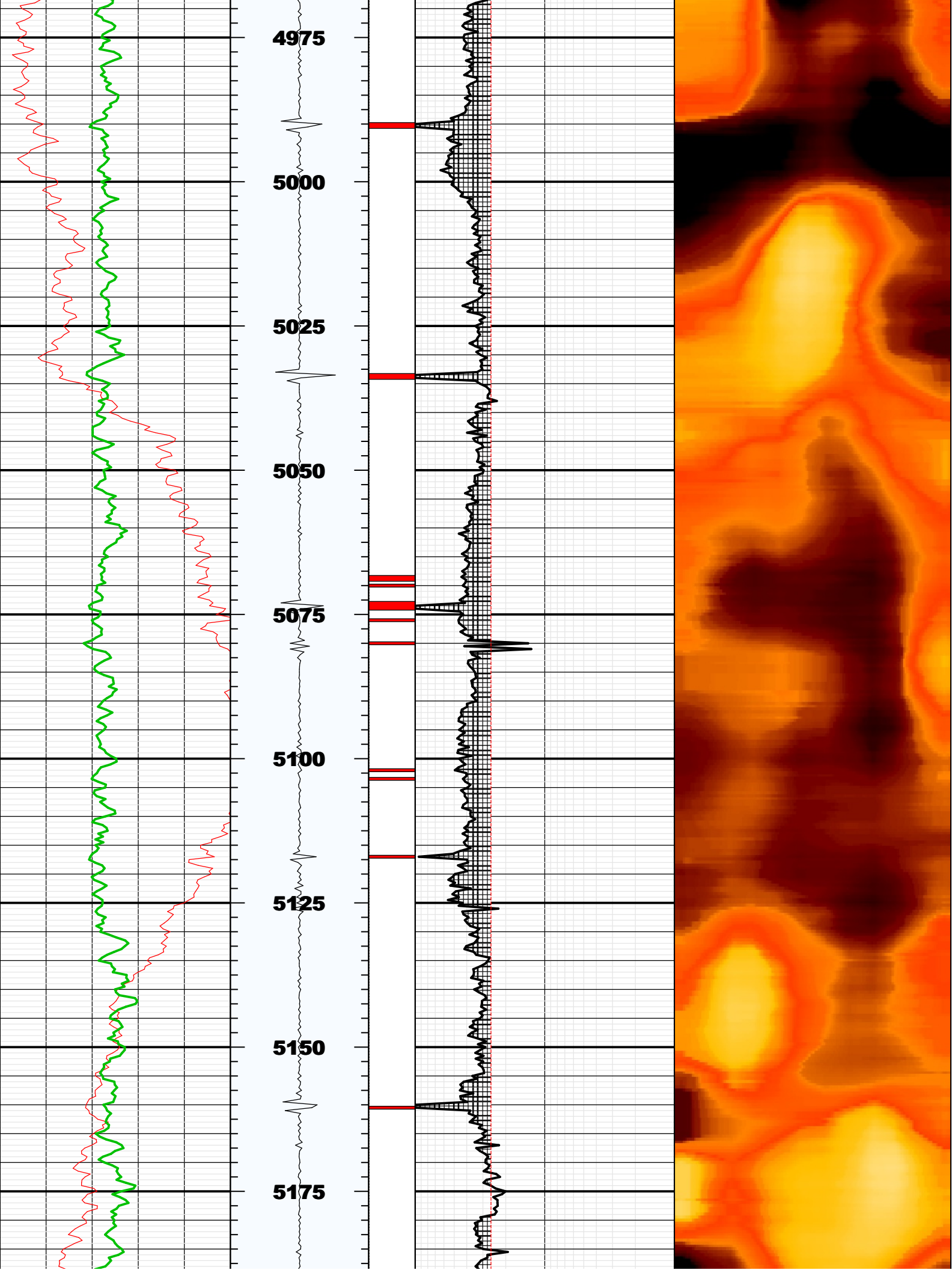


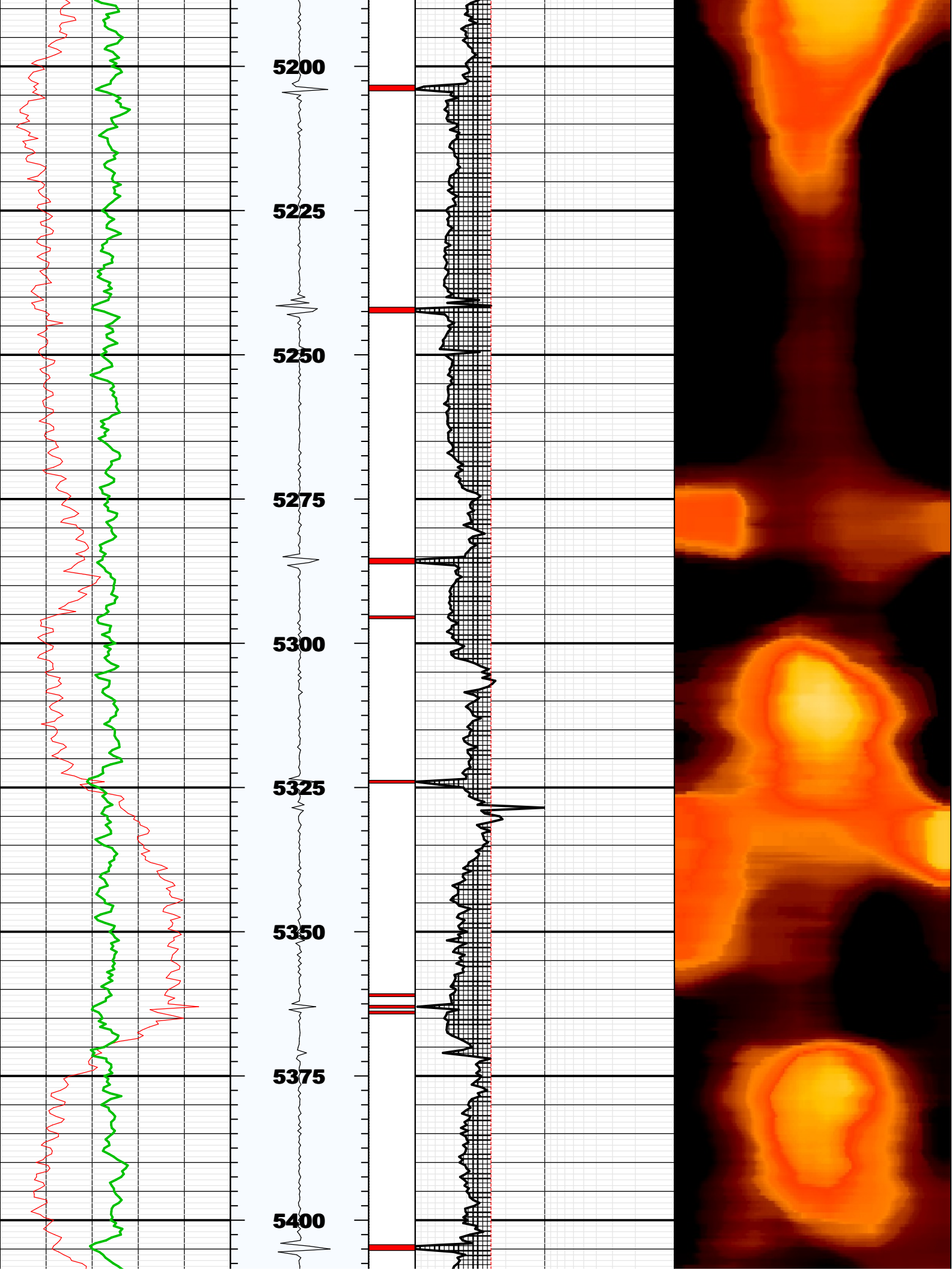


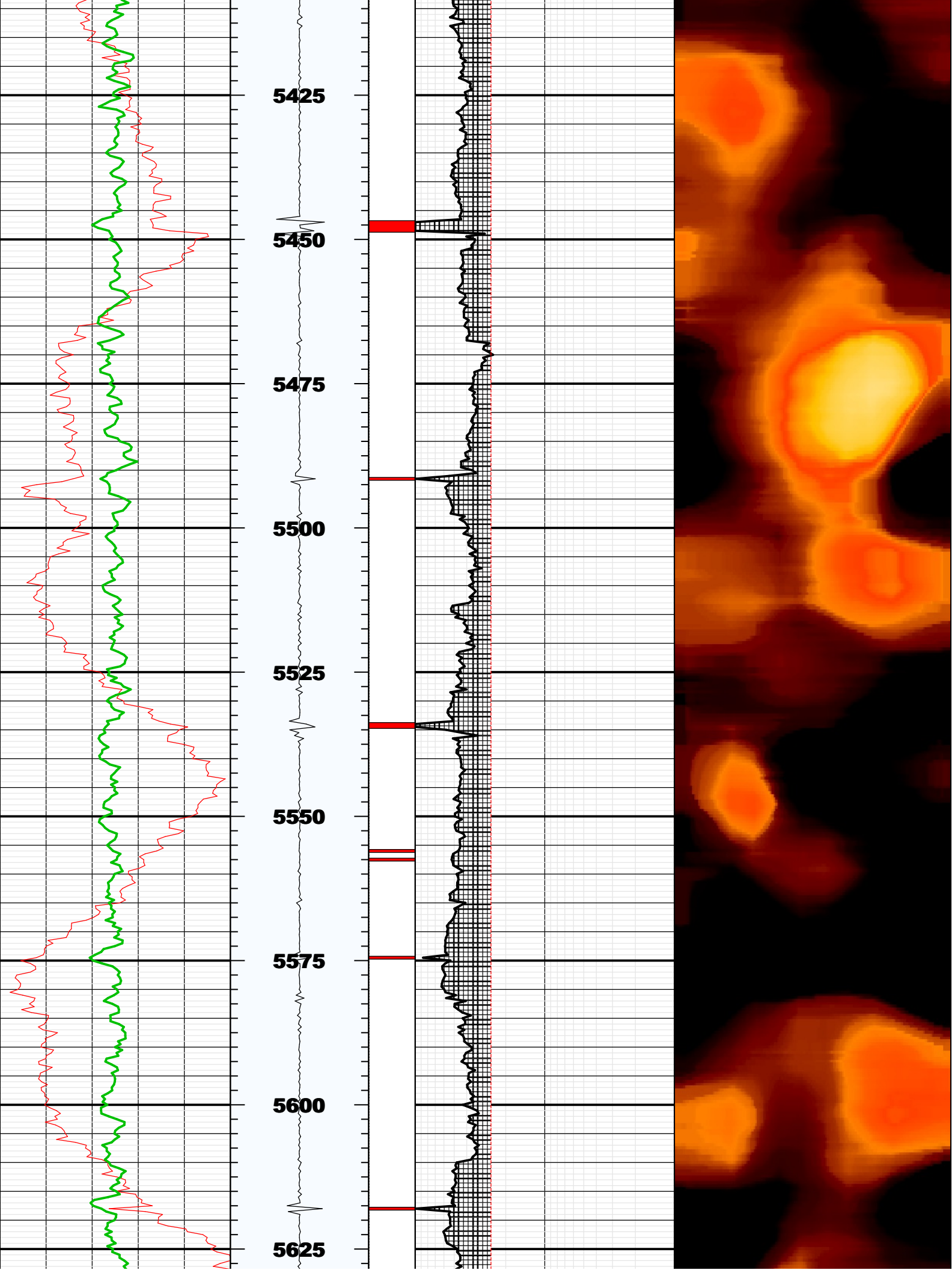


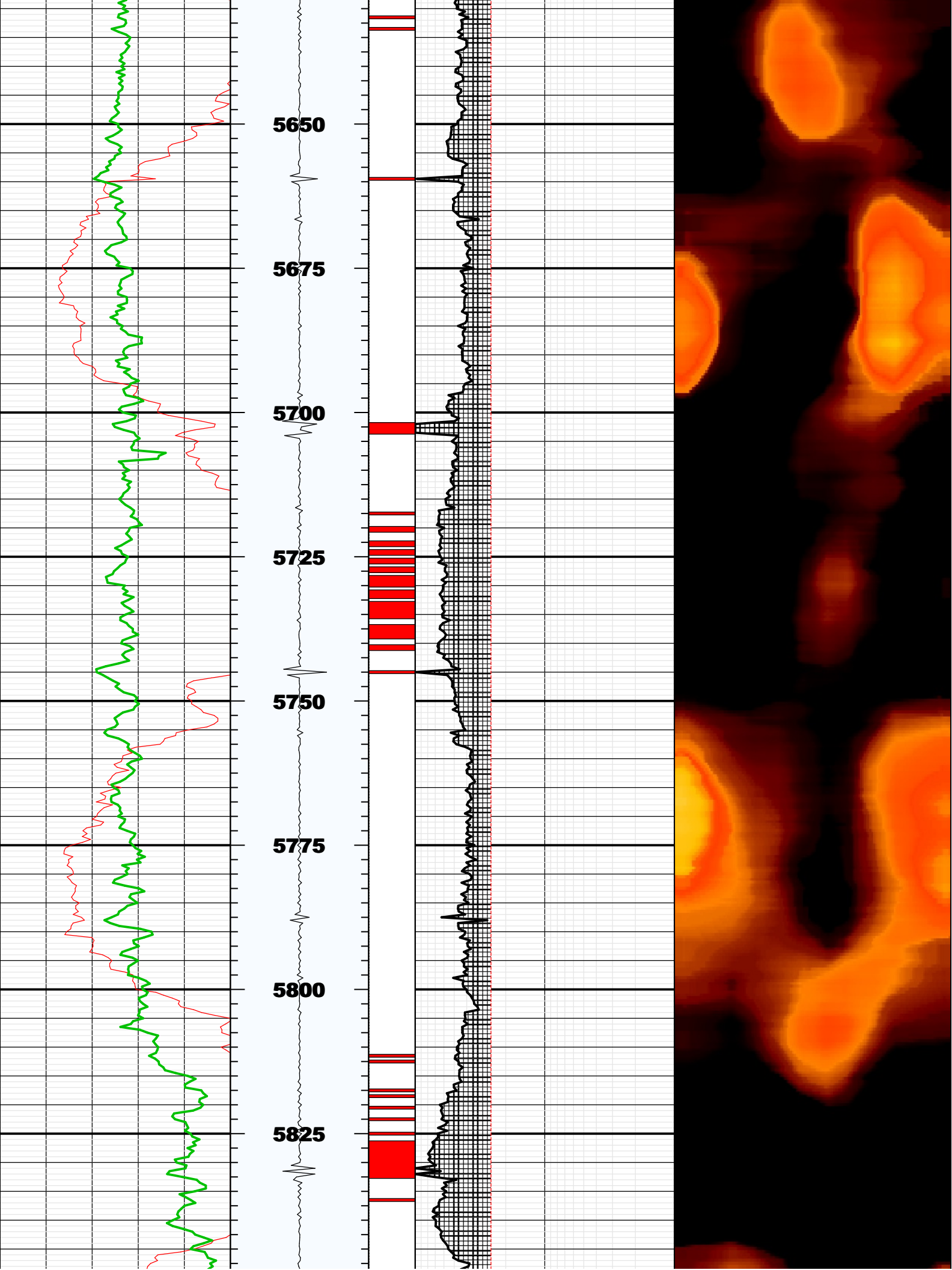


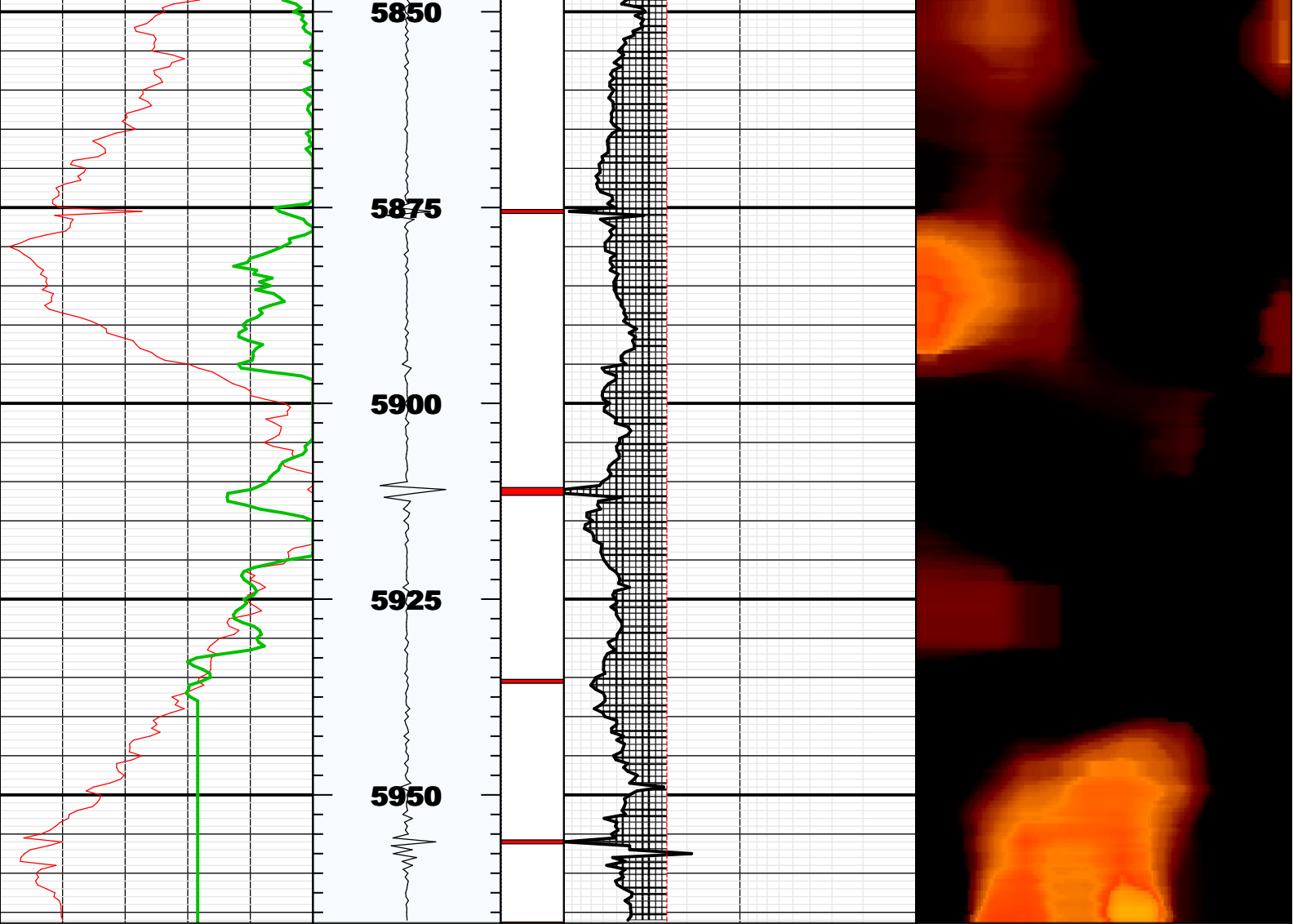








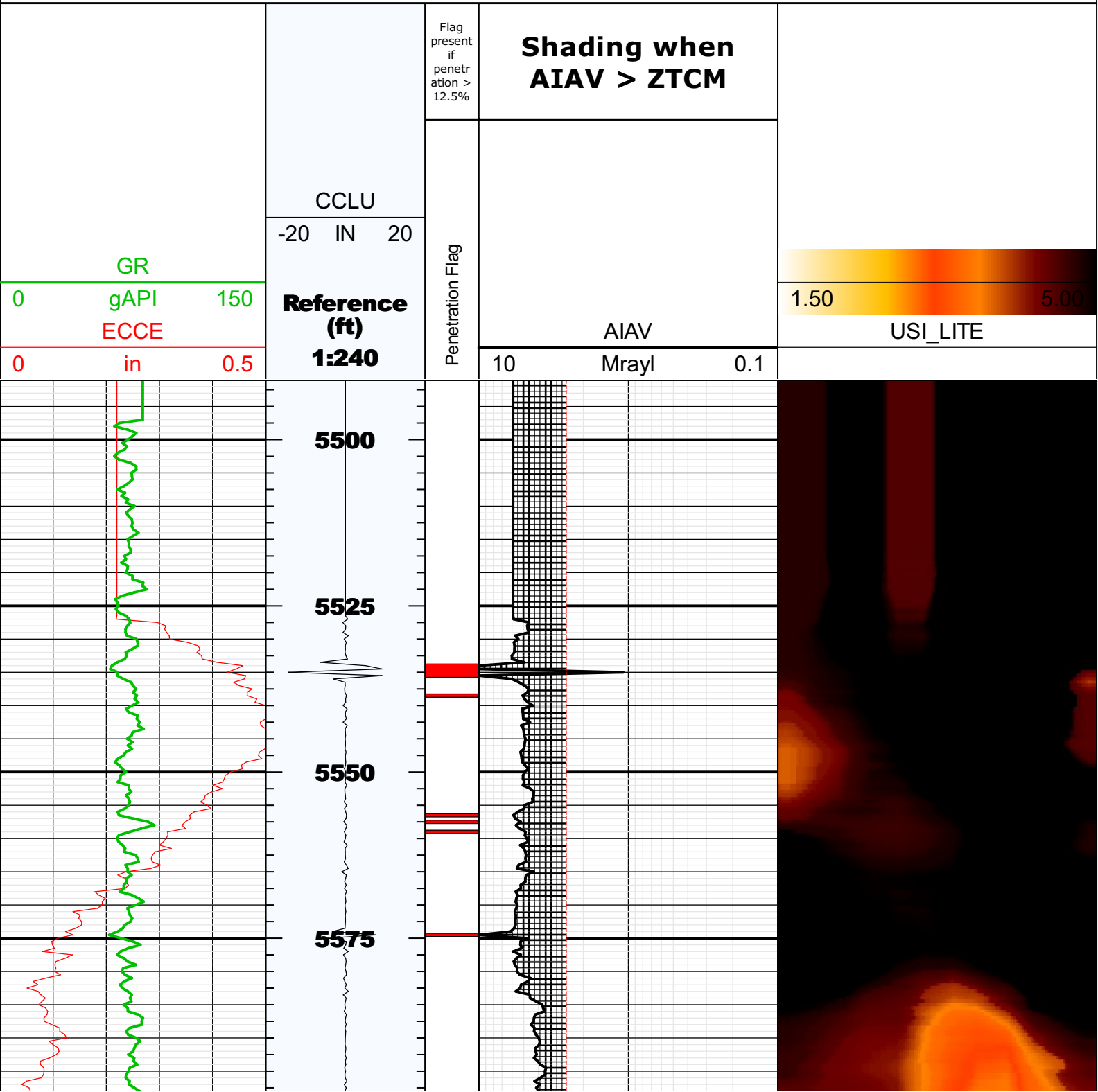


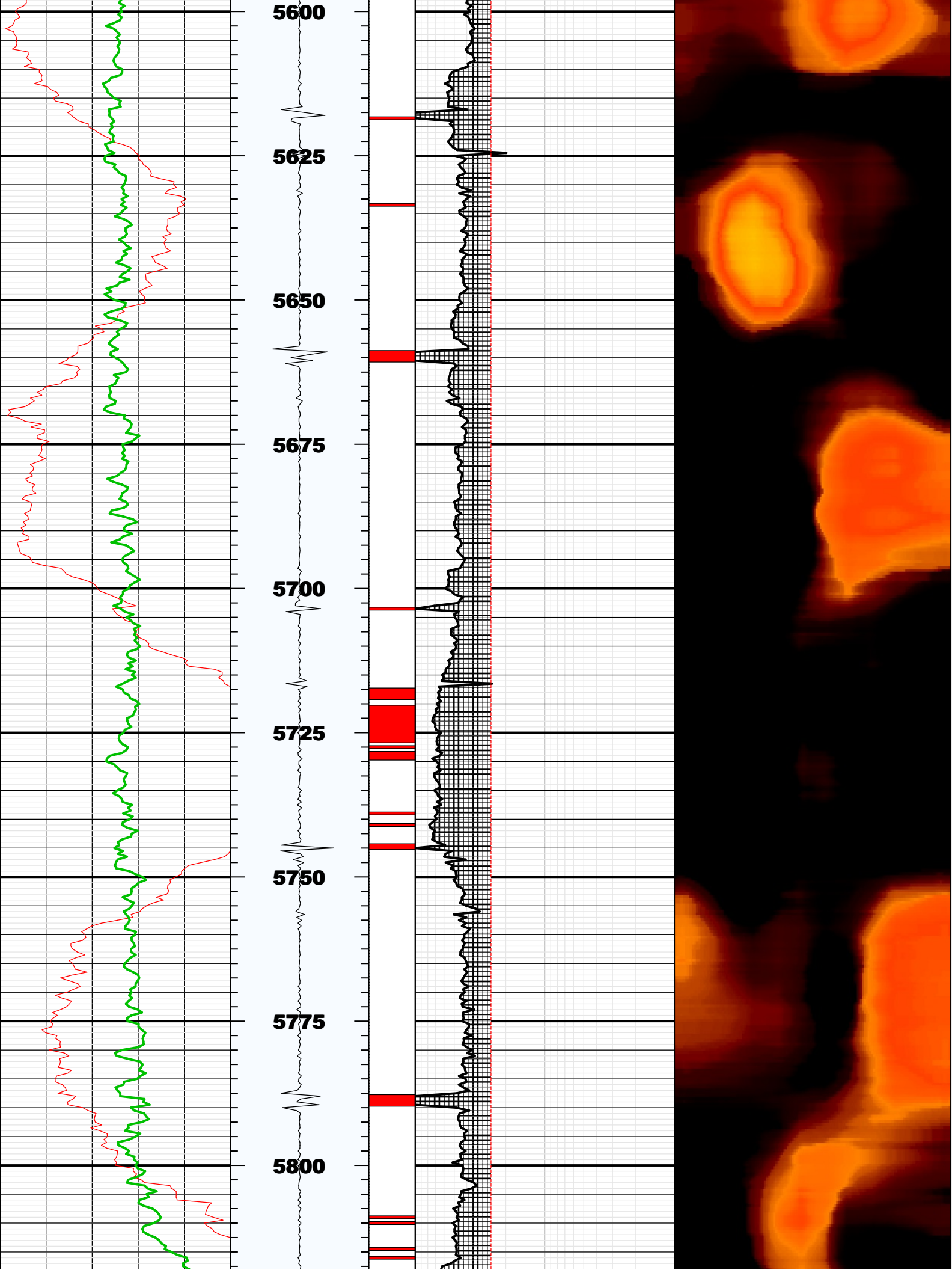


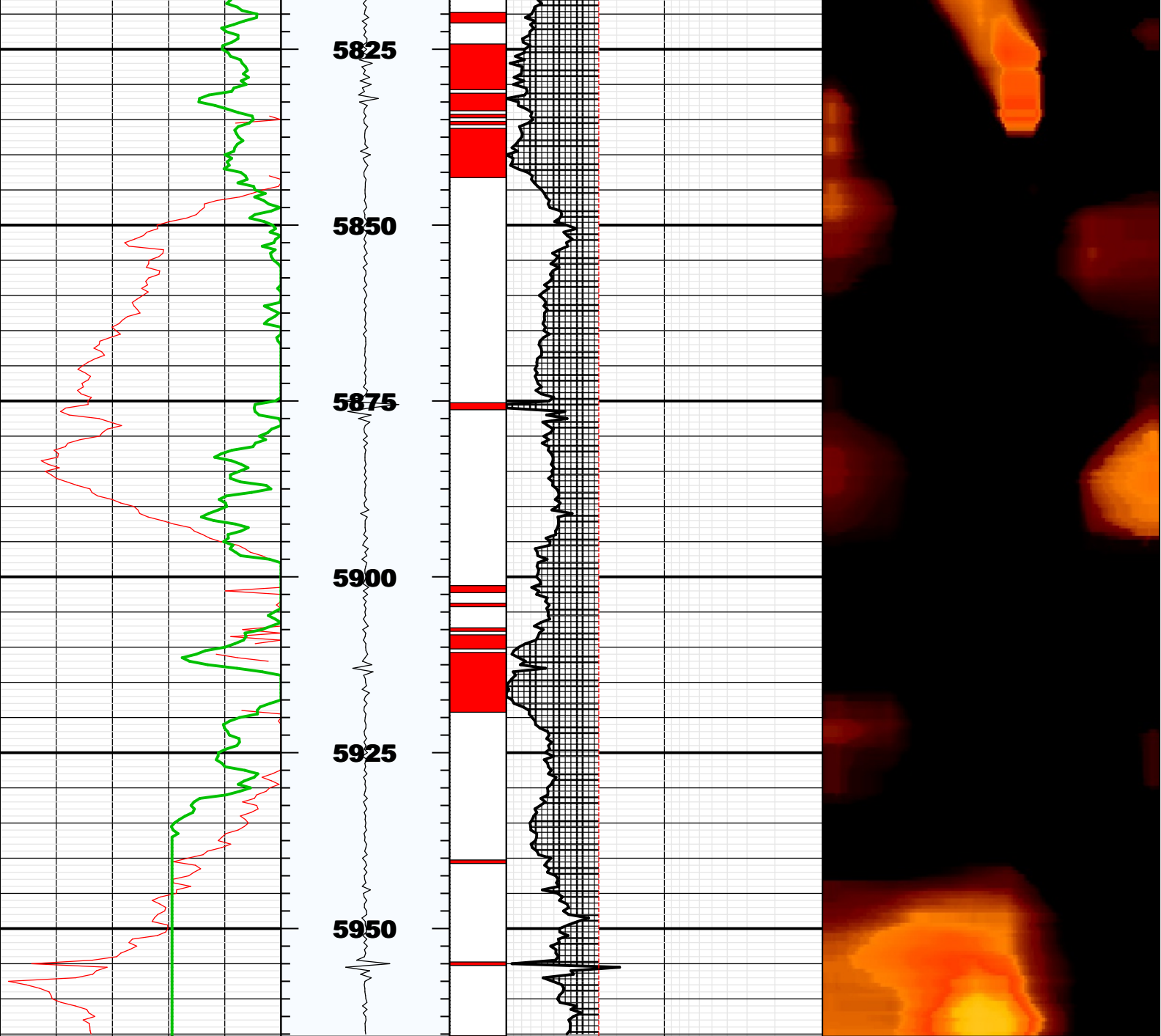
BS	8.75000	IN	Bit Size
CASG	N/A		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID	6.27600	IN	Casing Inner Diameter
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	190.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	50	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	BRINE		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	27.09074	US	Window Begin Time
WINE	79.06663	US	Window End Time
ZCAS	46.25000	MRAY	Acoustic Impedance of Casing
ZINI	-1.00000	MRAY	Initial Estimate of Cement Impedance
ZMUD	1.78000	MRAY	Acoustic Impedance of Mud
ZTCM	2.60000	MRAY	Acoustic Impedance Threshold for Cement
ZTGS	0.20000	MRAY	Acoustic Impedance Threshold for Gas
WLEN	15.36685	US	T^3 Processing Length

Repeat Pass

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Fluid Properties Used for Main Pass

