

Company: Noble Energy Inc

Well: NCLP AA06-65-1AHNC
Field: Wattenberg
County: Weld State: Colorado

USI-LITE									
				Elev: K.B. 4735.0 F G.L. 4711.0 F D.F. 4734.0 F					
LOCATION				GL KB KB					
Permanent Datum: Log Measured From: Drilling Measured From:									
API Serial No. 05-123-39026-0000		Section 4		Township 6N		Range 63W			
Logging Date 24-Aug-2014									
Run Number		Run1 USIT							
Depth Driller		16458.0 F							
Schlumberger Depth		16458.0 F							
Bottom Log Interval		6918.0 F							
Top Log Interval		-999.2 F							
Casing Fluid Level		0.0 F							
Salinity									
Density		10.00 LB/G							
Fluid Level		0.0 F							
BIT/CASING/TUBING STRING									
Bit Size		8.750 IN							
From		-999.2 F							
To		16458.0 F							
Casing Size		7.00 IN							
Weight		26.00 LB/F							
Grade		P110							
From		0.0 F							
To		7039.0 F							
Max Recorded Temp		235.0							
Logger on bottom (date)		24-Aug-2014							
Location		Ft. Morgan CO							
Recorded By		Tim Hoffman							
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: Length: 11800.00000

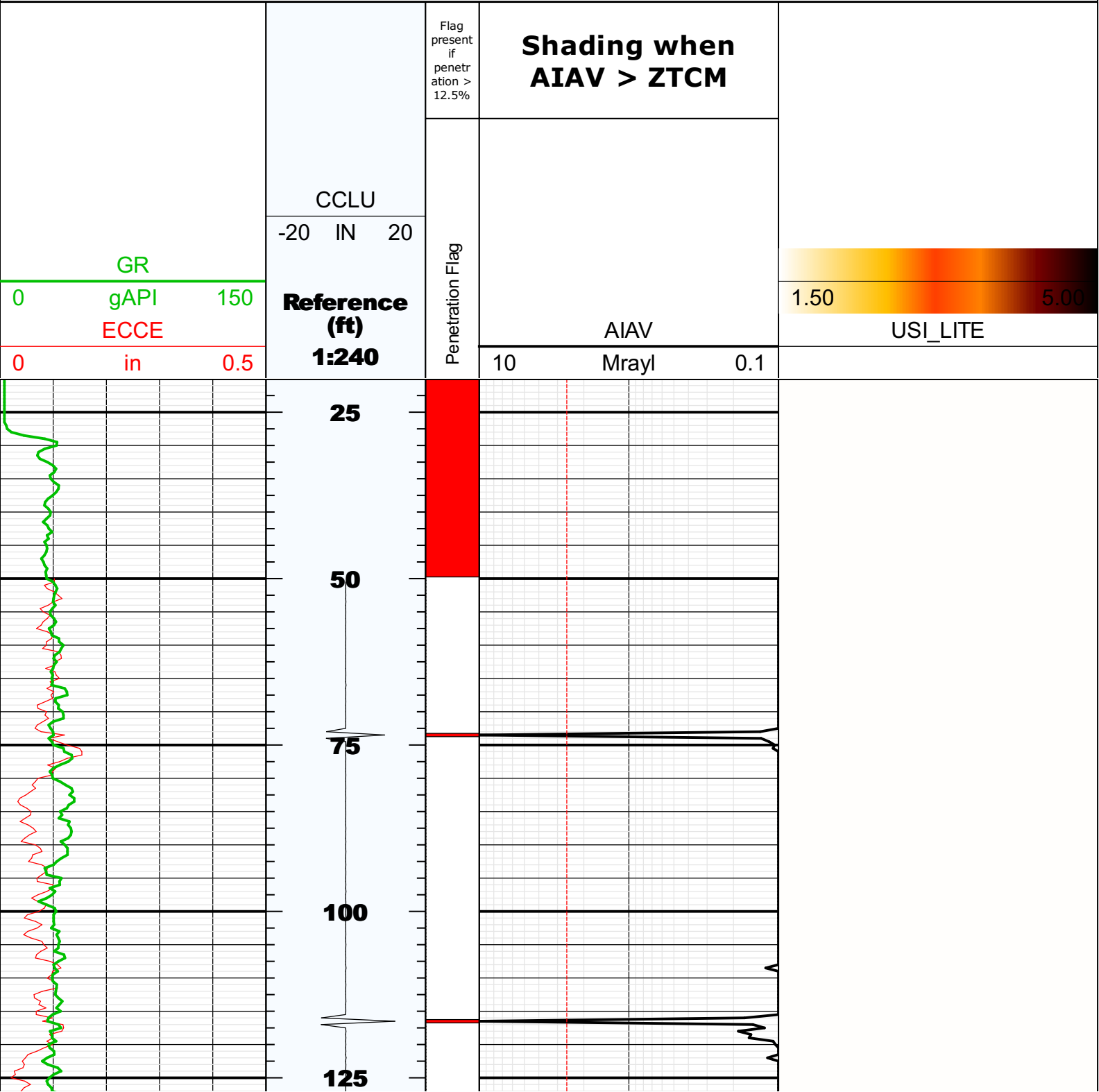
DISCLAIMER

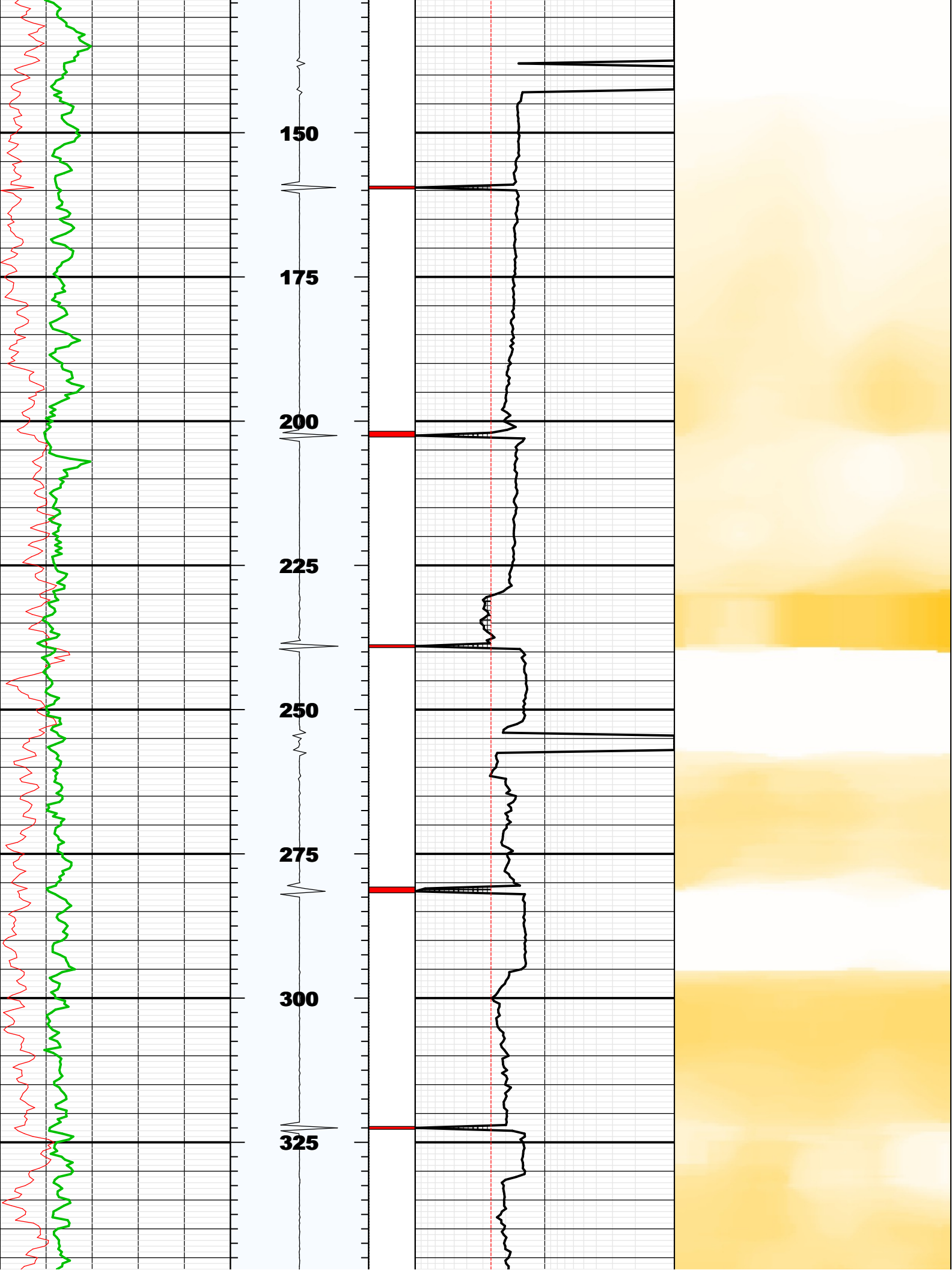
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIIONS ON USE OF THE RECORDED-DATA (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

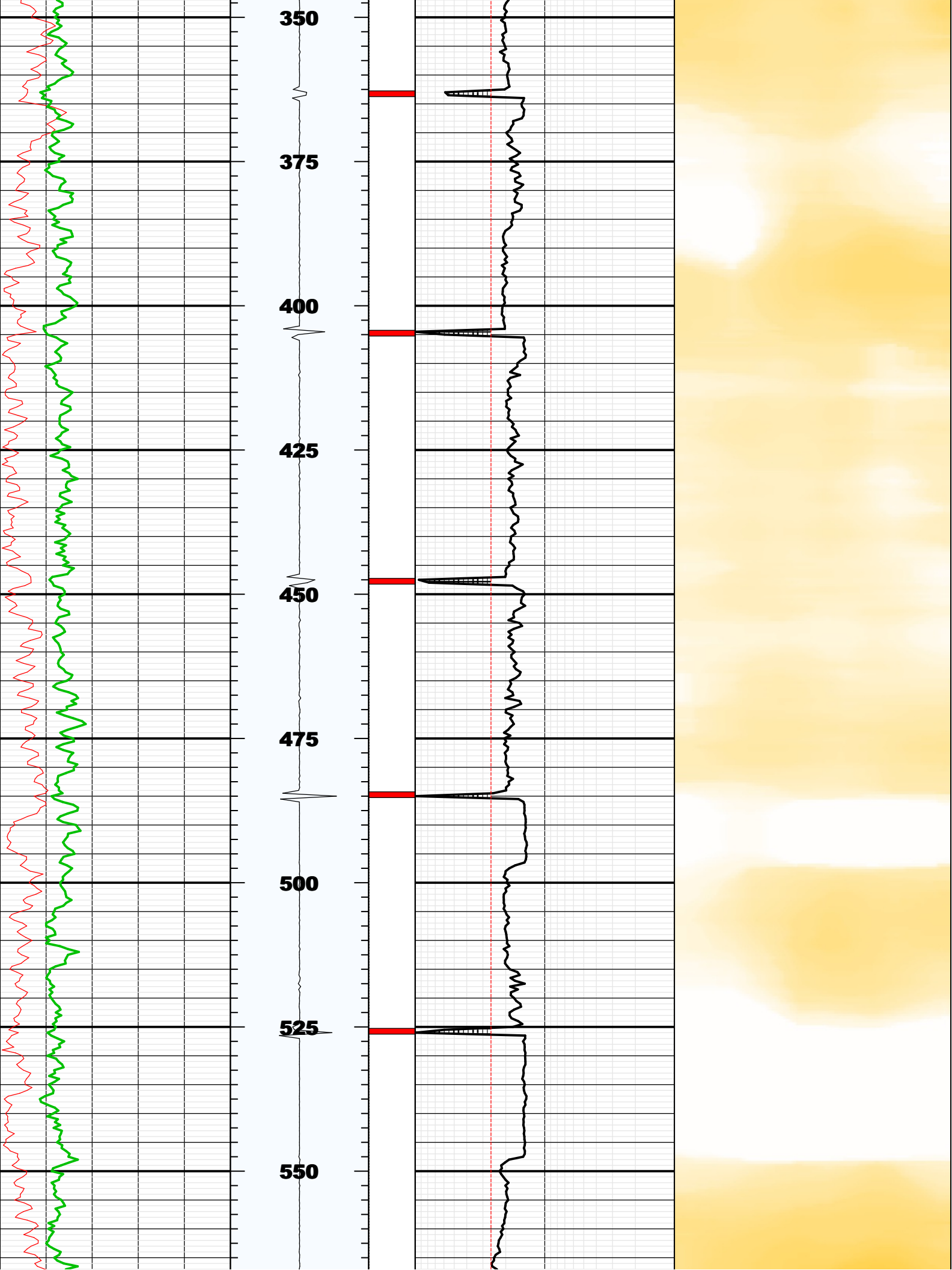
This is the first run in hole
Toolstring run as per tool sketch
12.5 ppg lead cement
13.8 ppg tail cement
0 PSI repeat pass
2500 PSI main pass
Software glitch caused small gap in data at 250 ft
Bottom log temperature 235 degF
Top of cement 800 ft
Crew Jay Musgrave Jake Jump

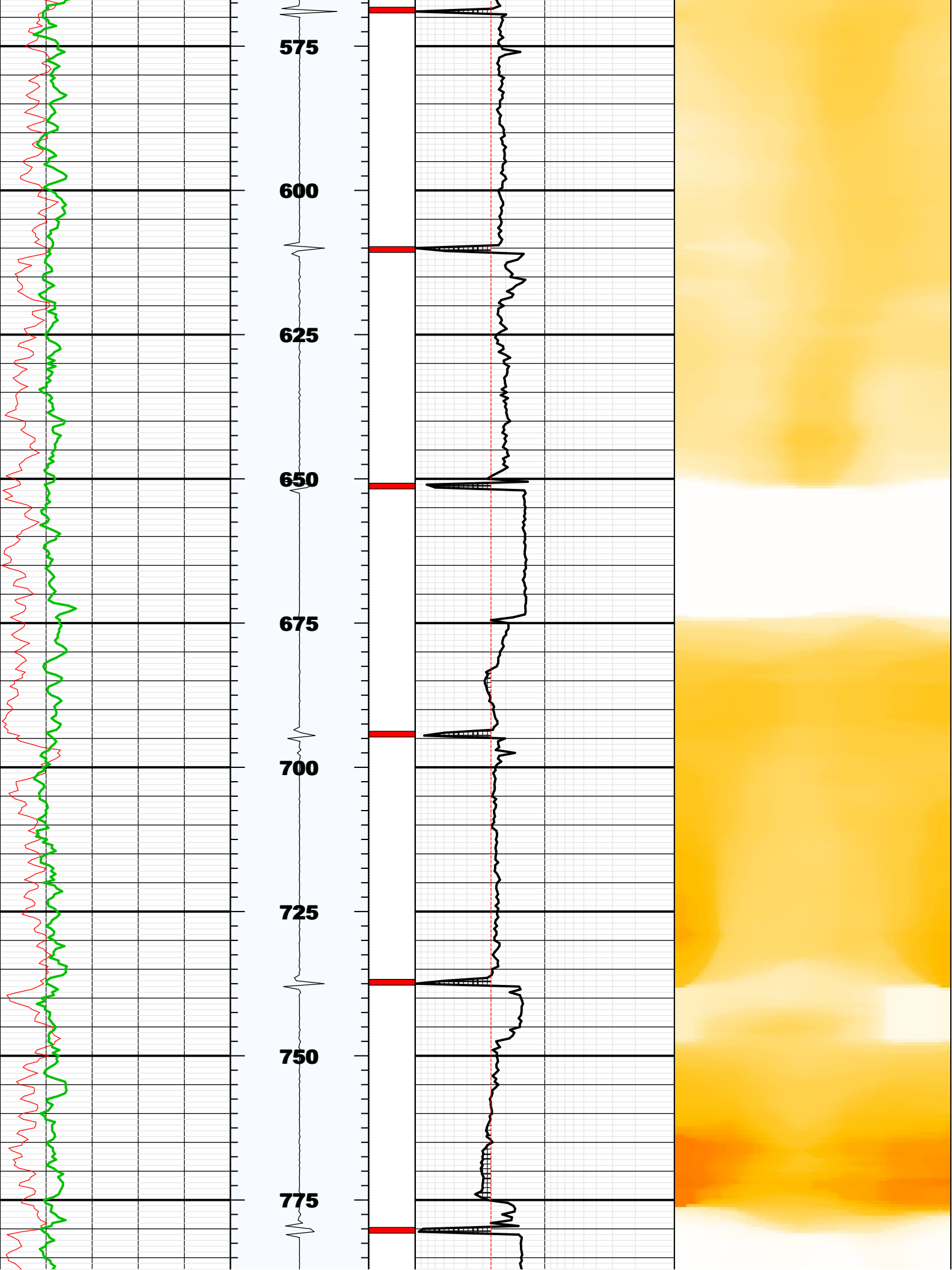
Main Pass

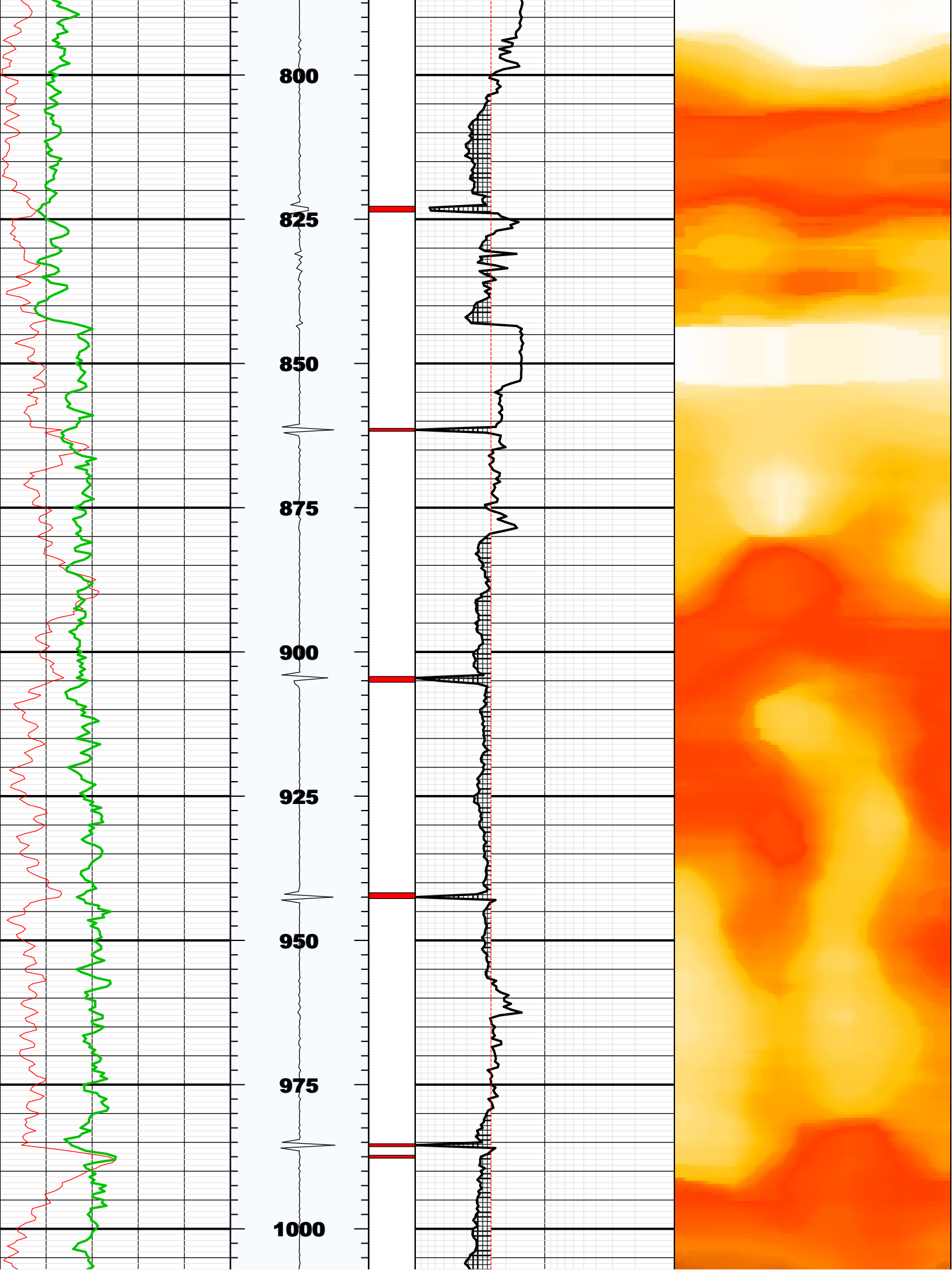
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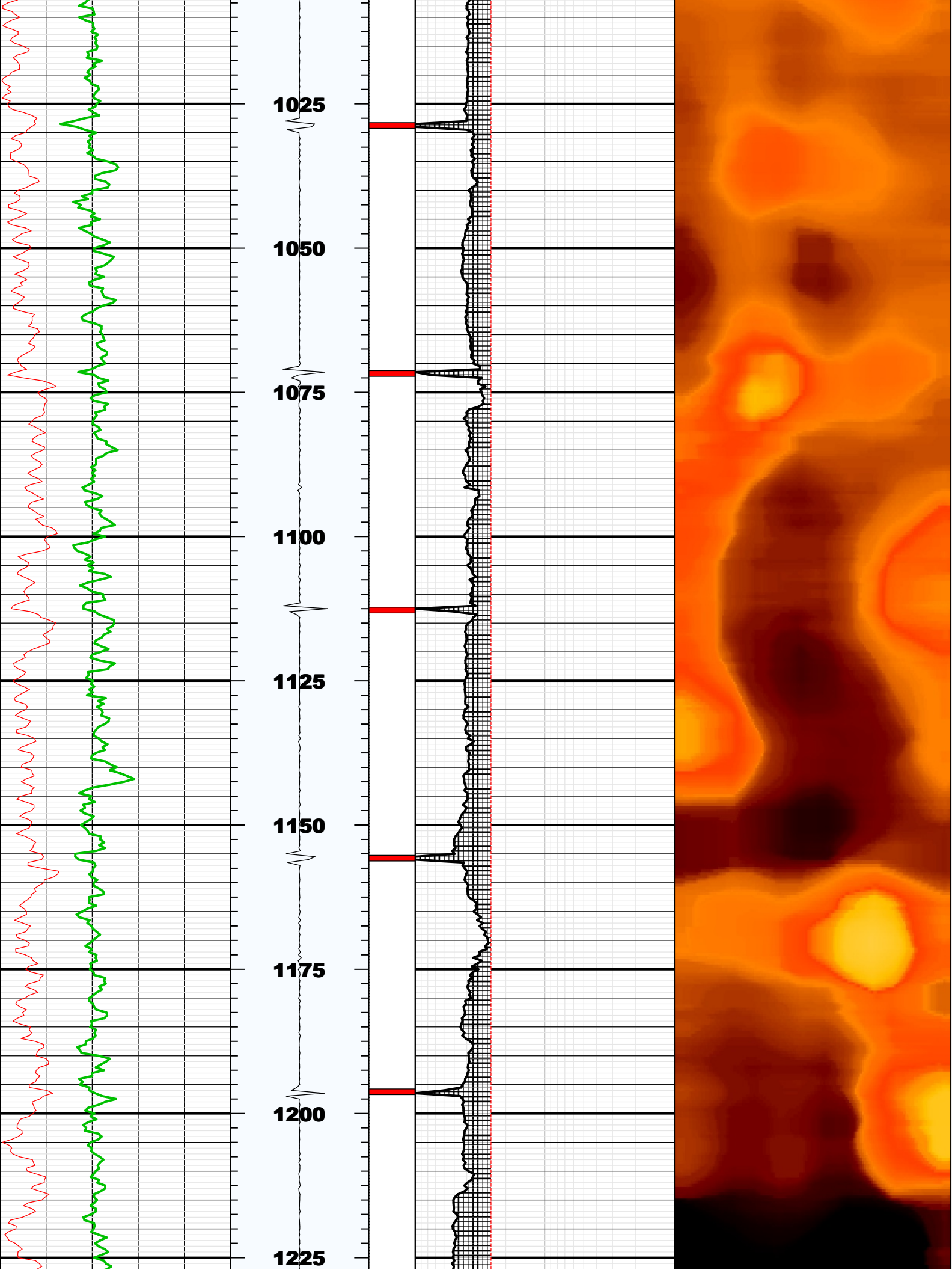


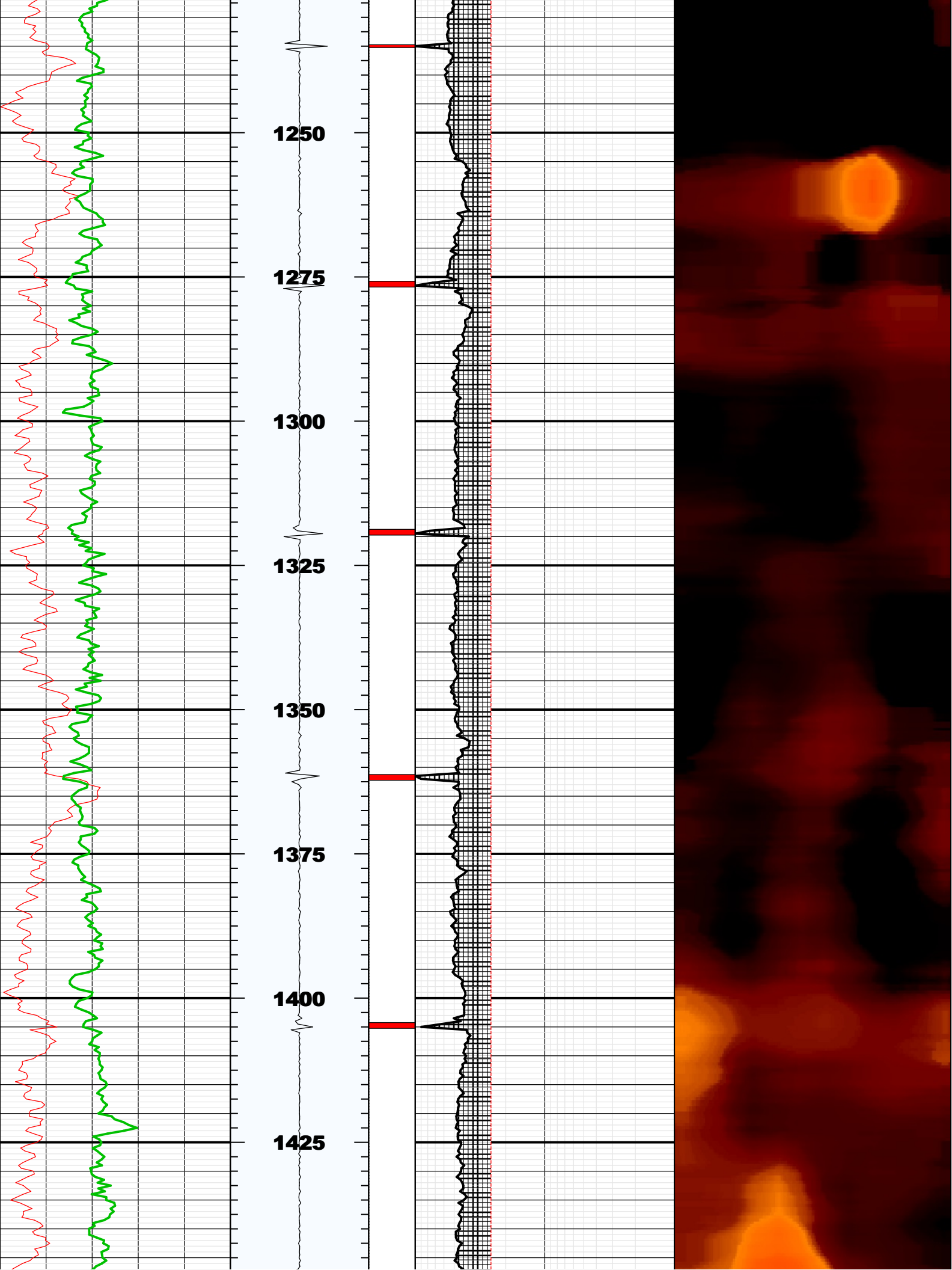


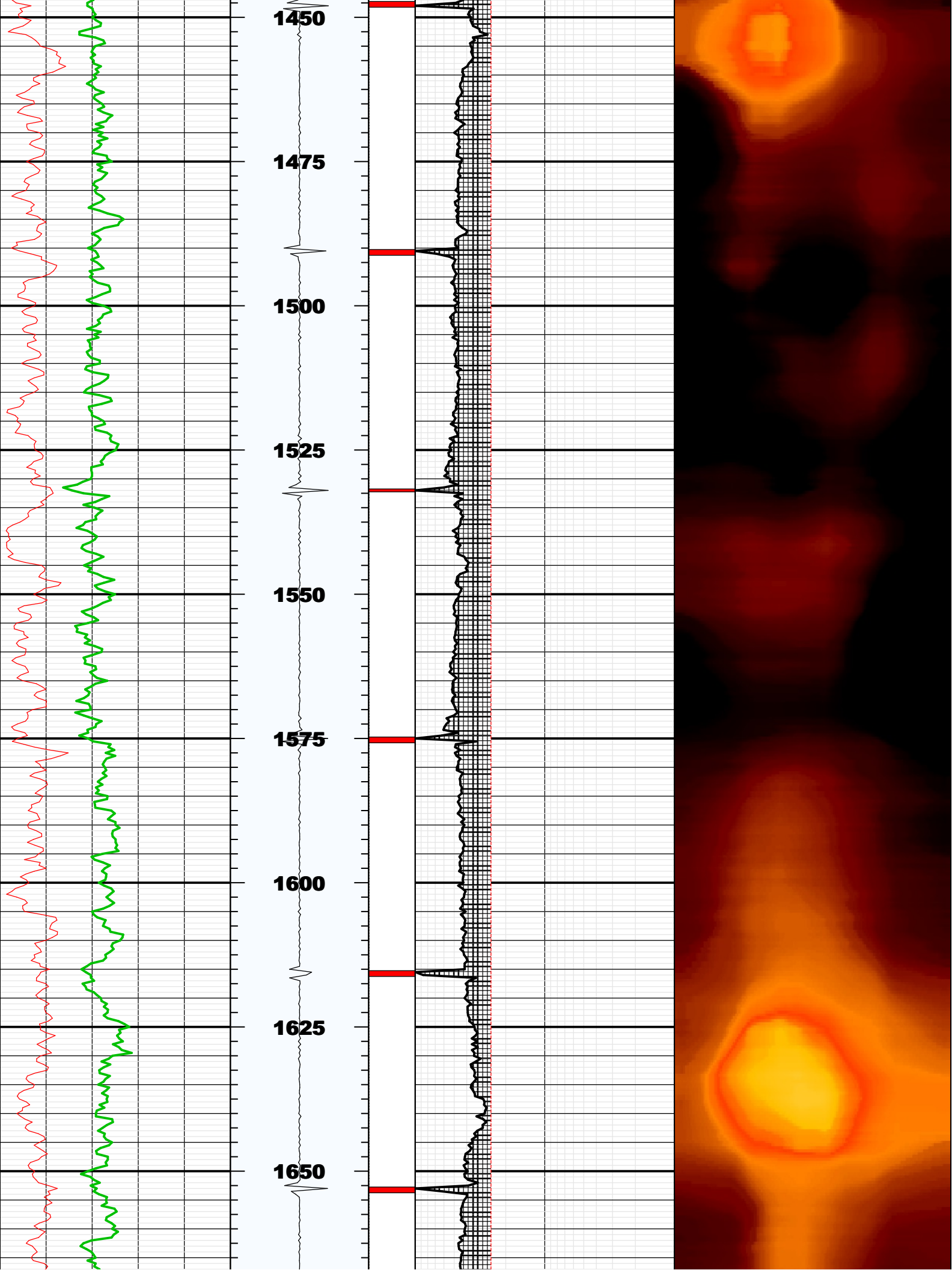


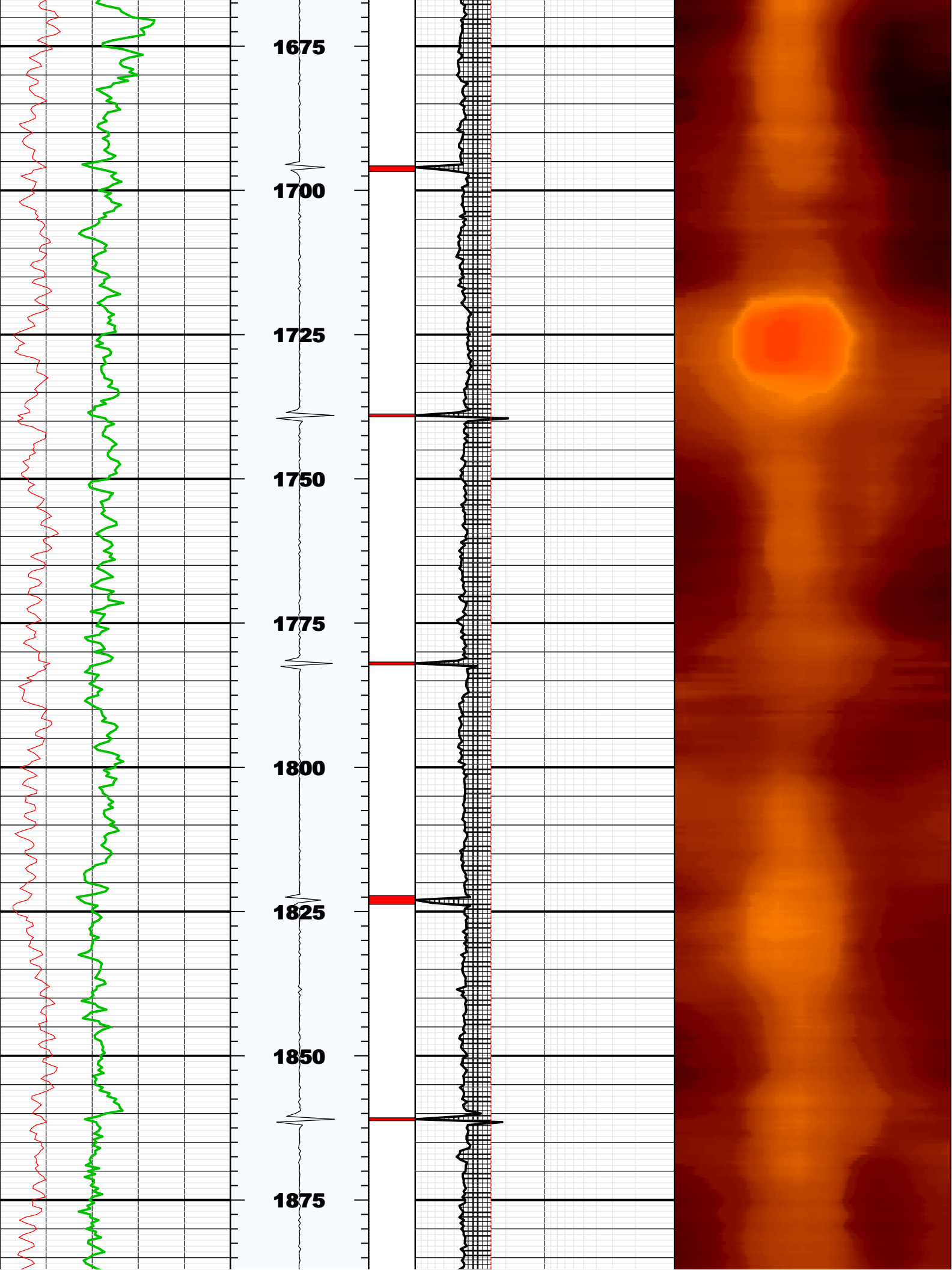


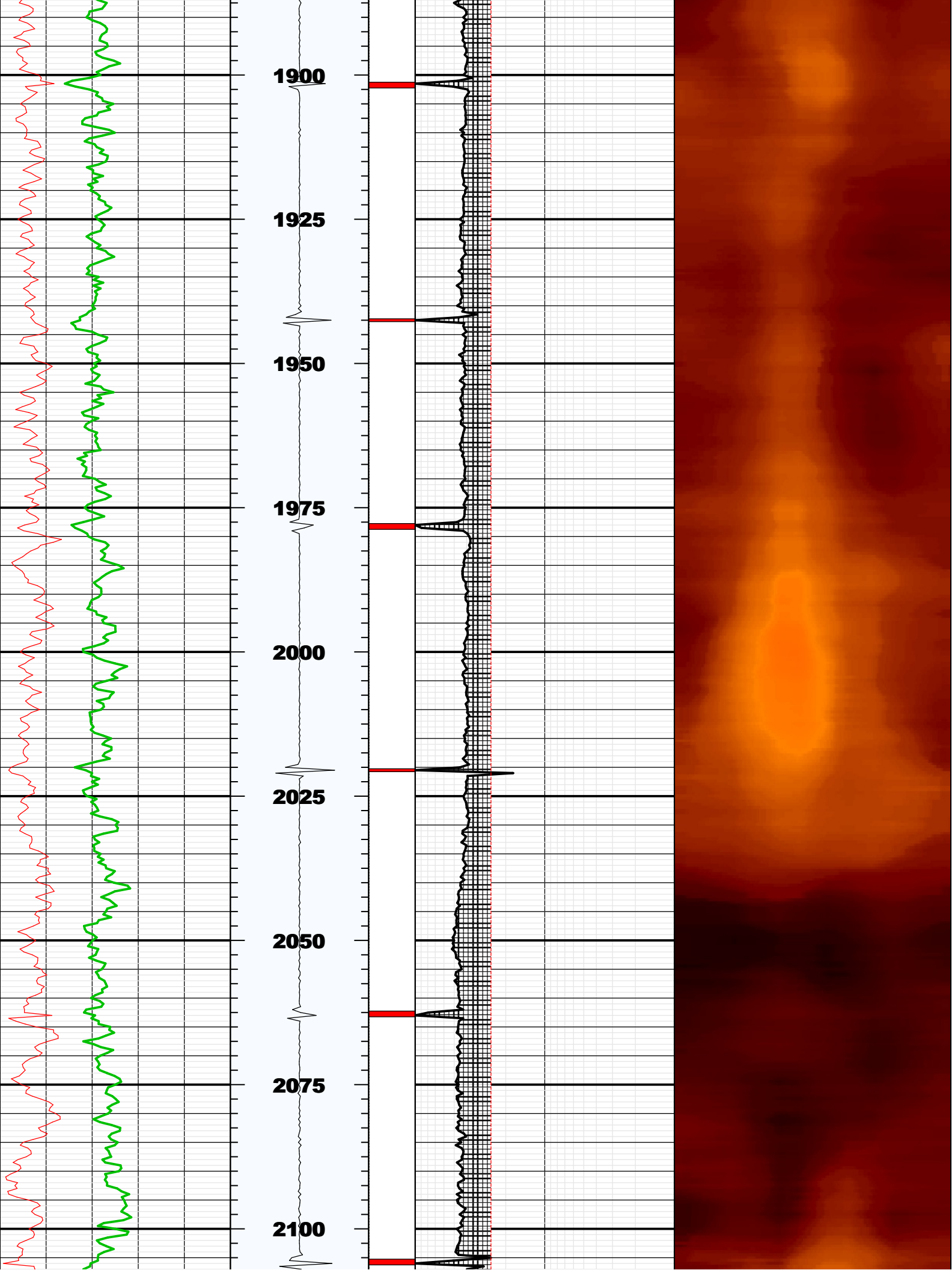


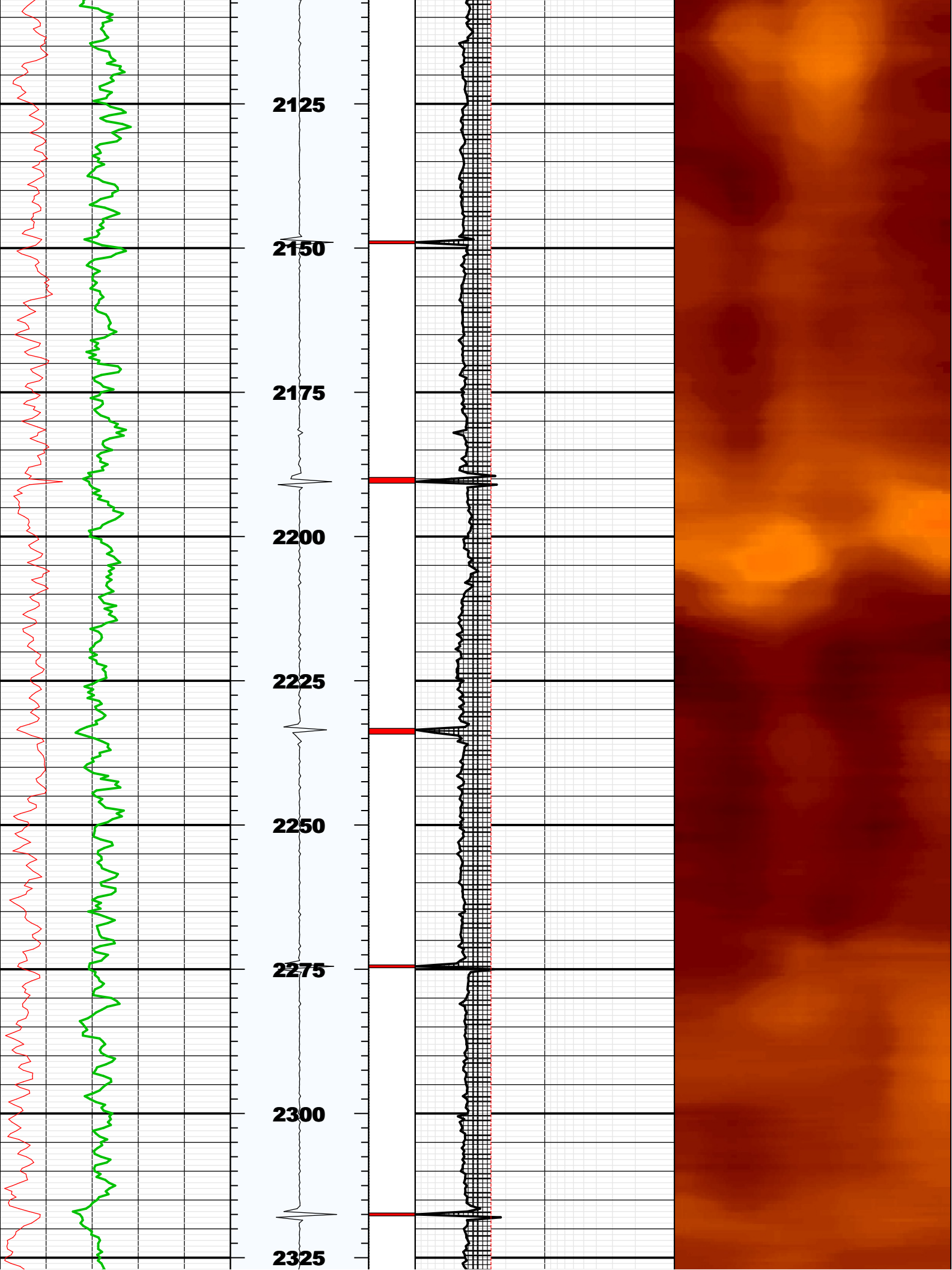


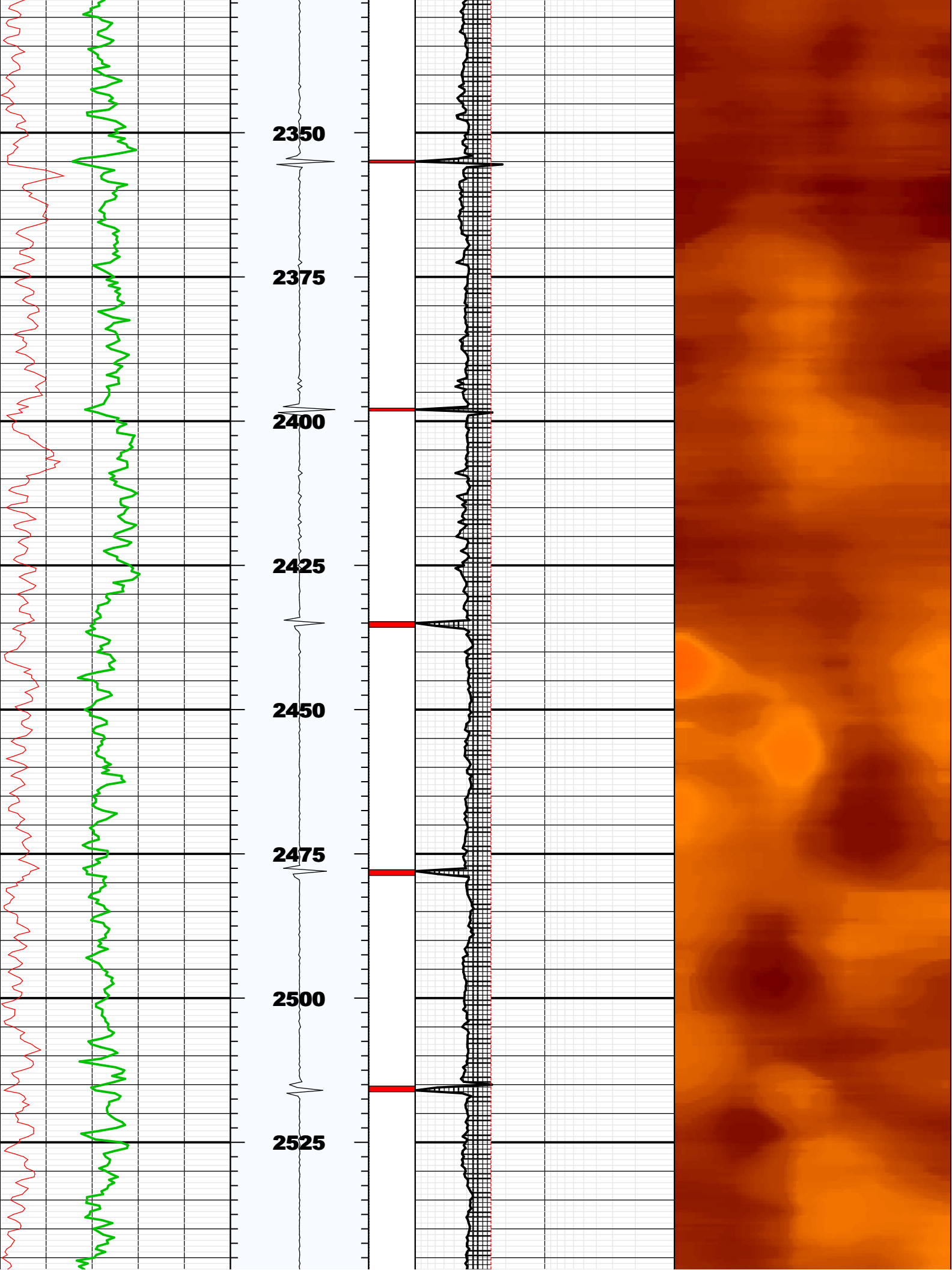


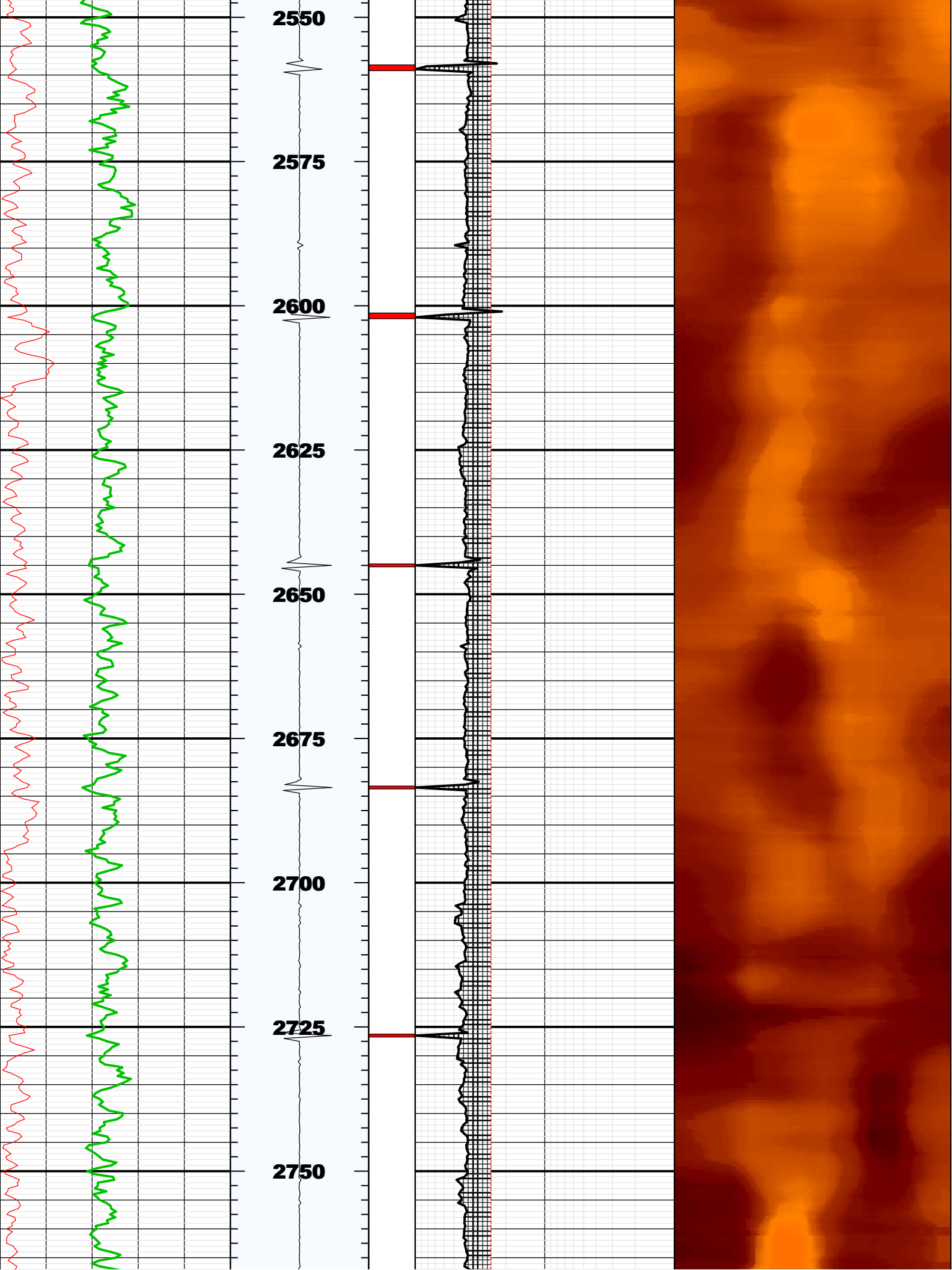


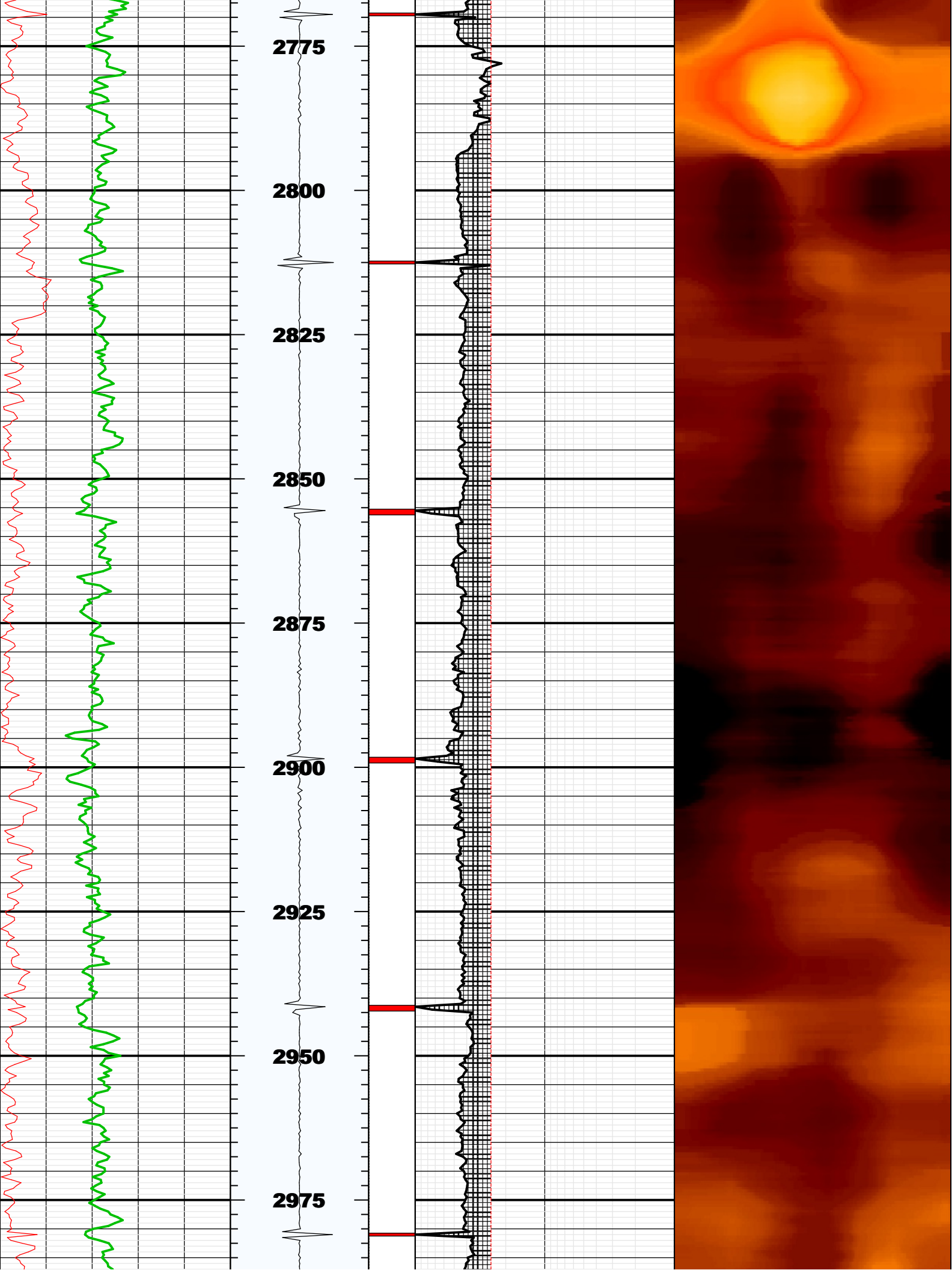


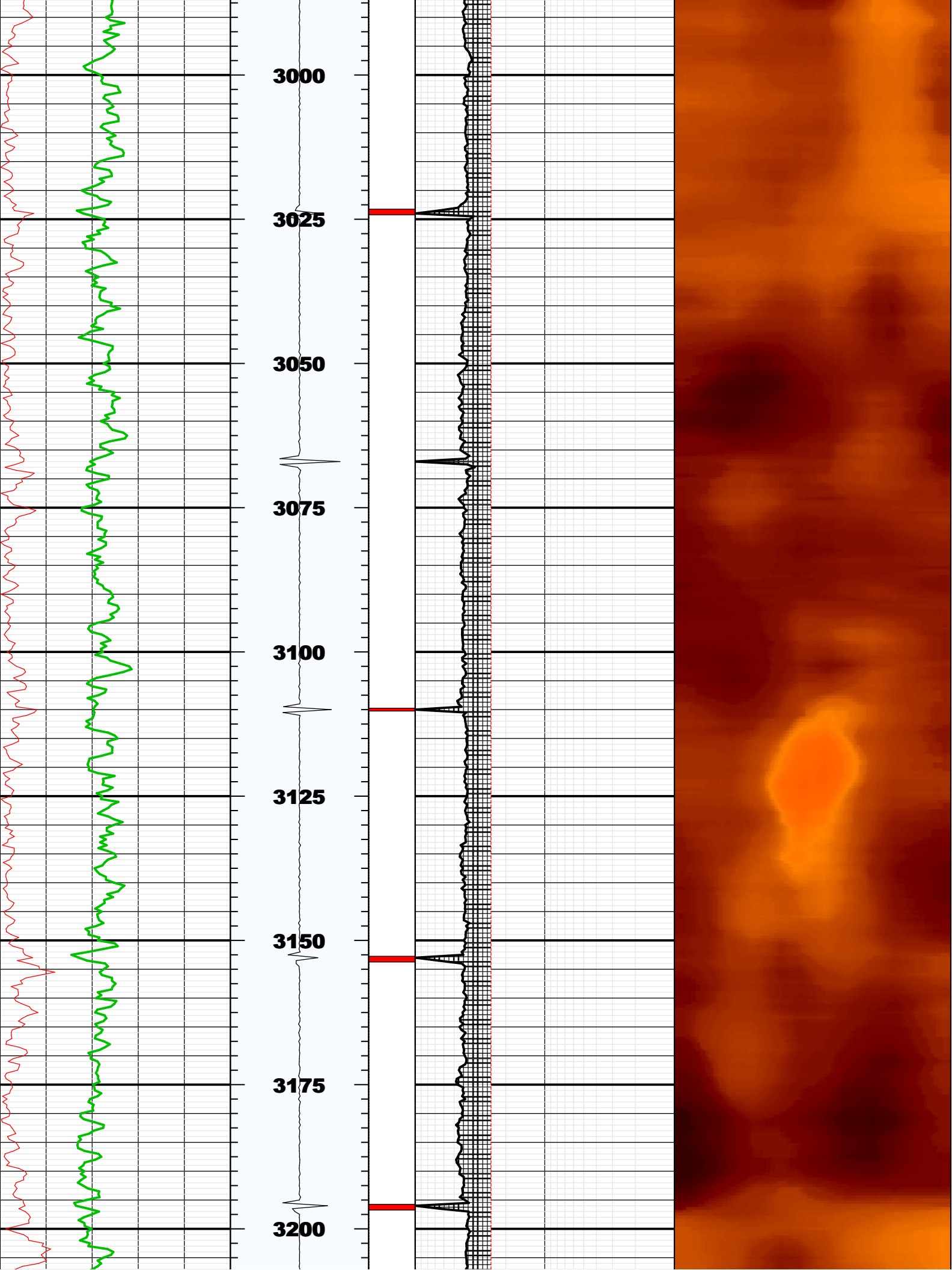


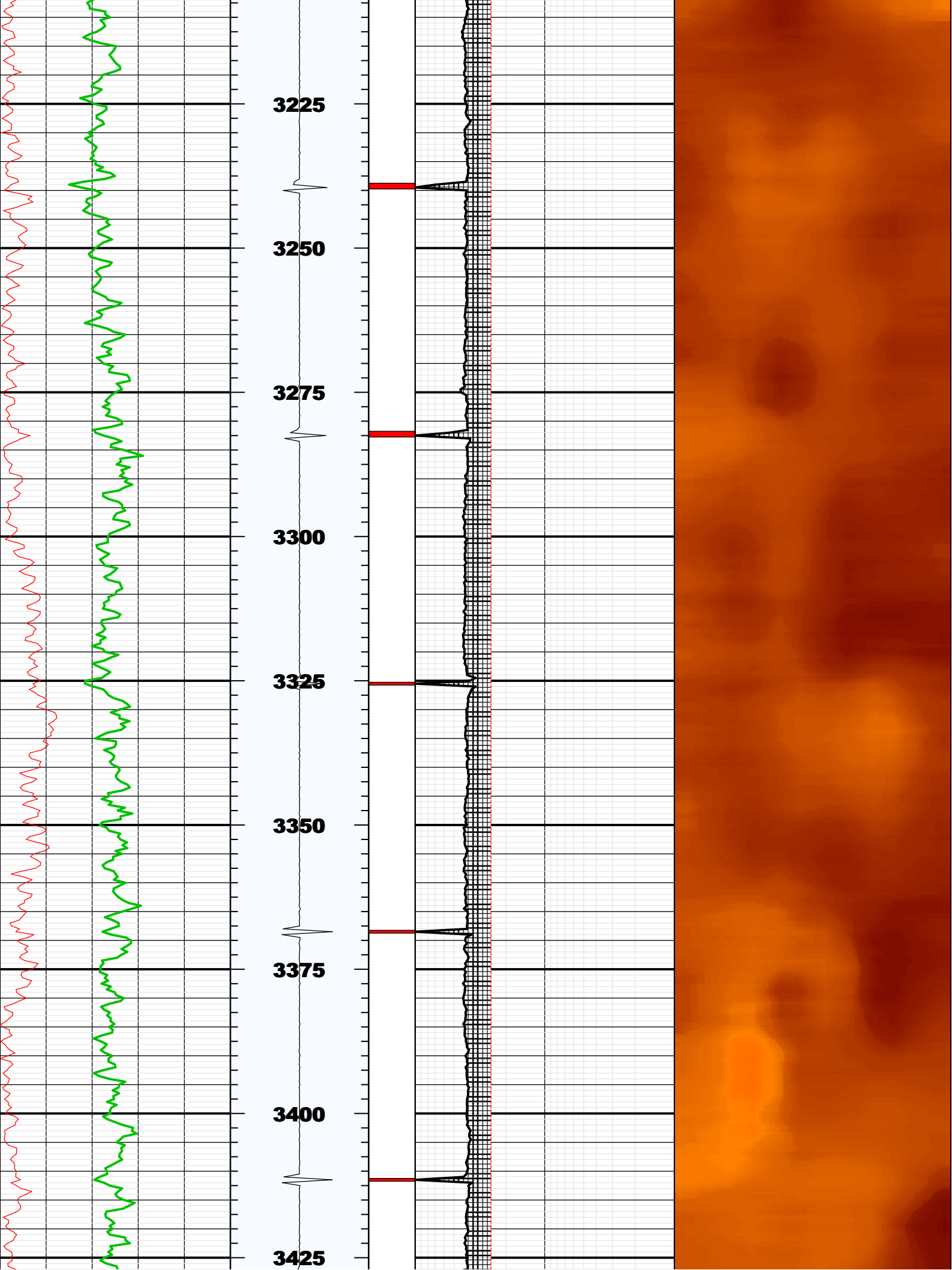


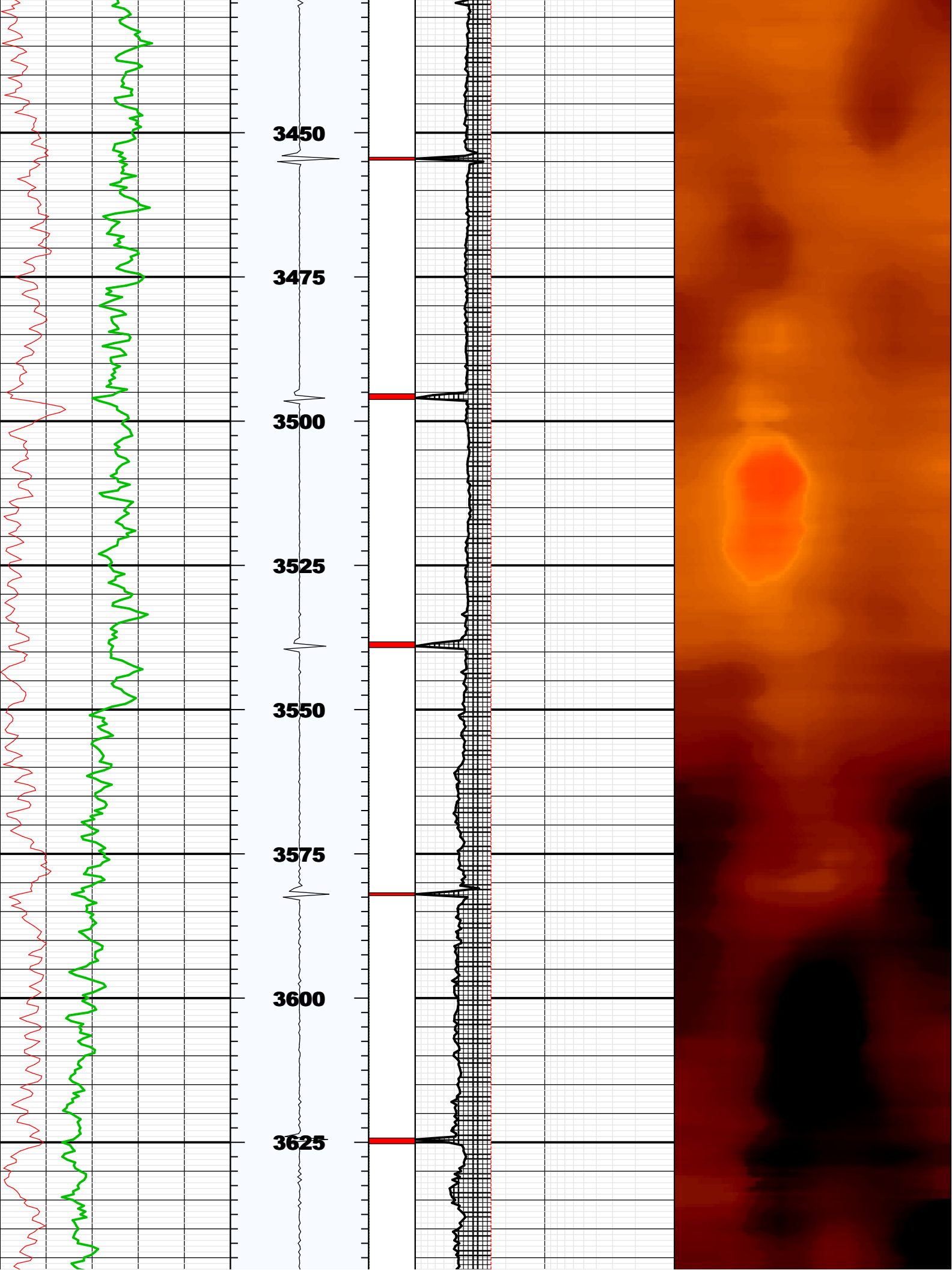


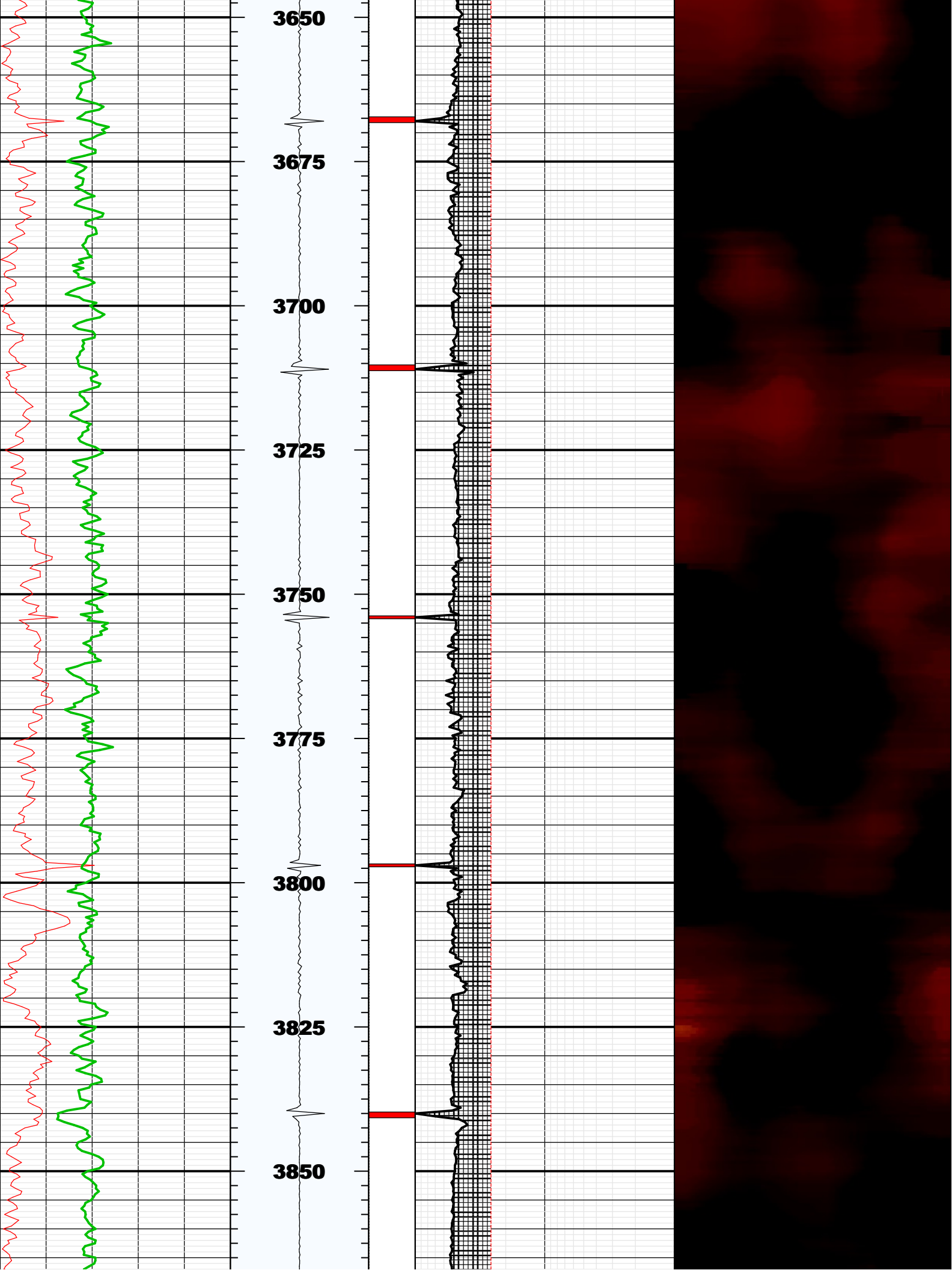


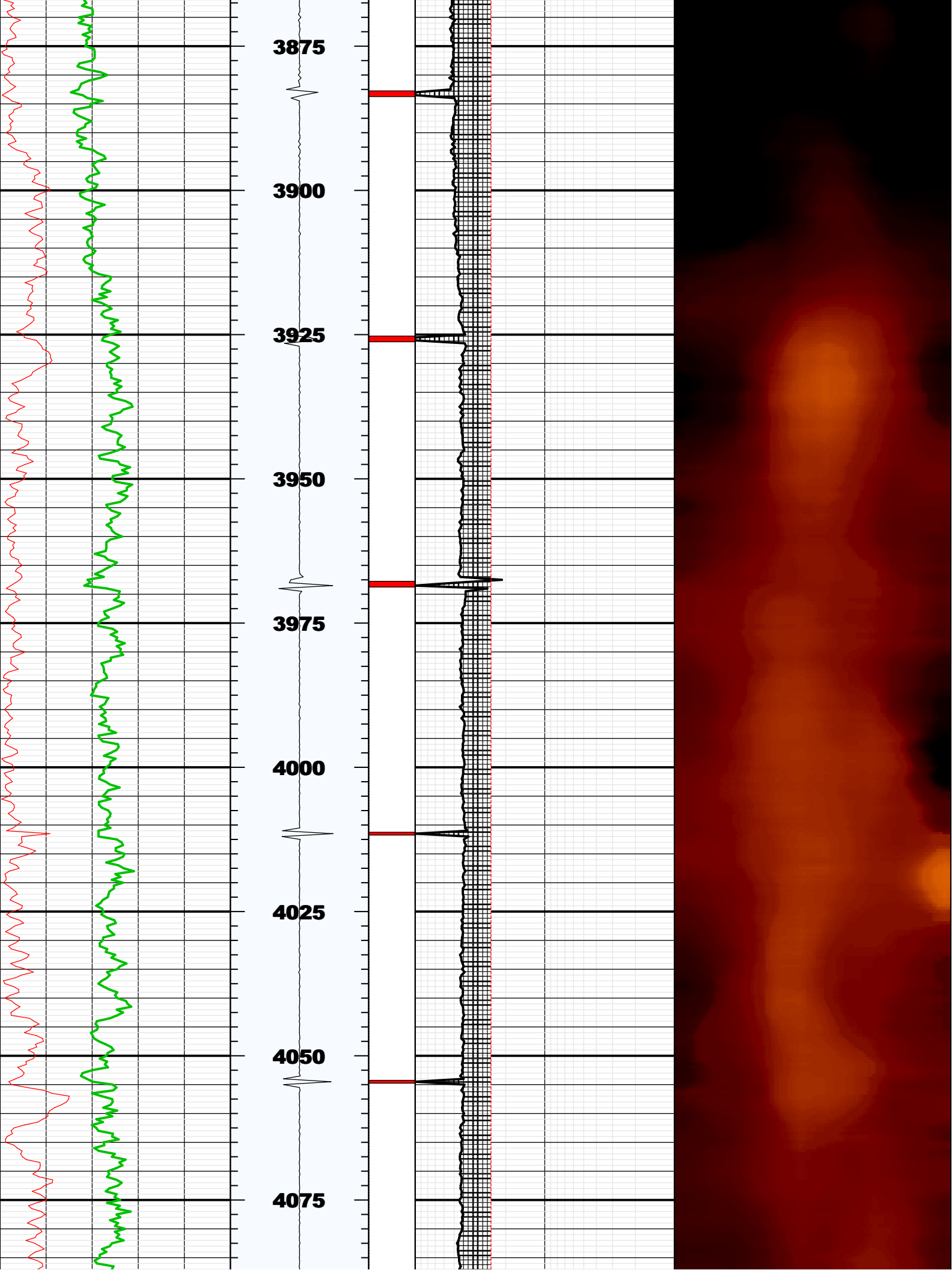


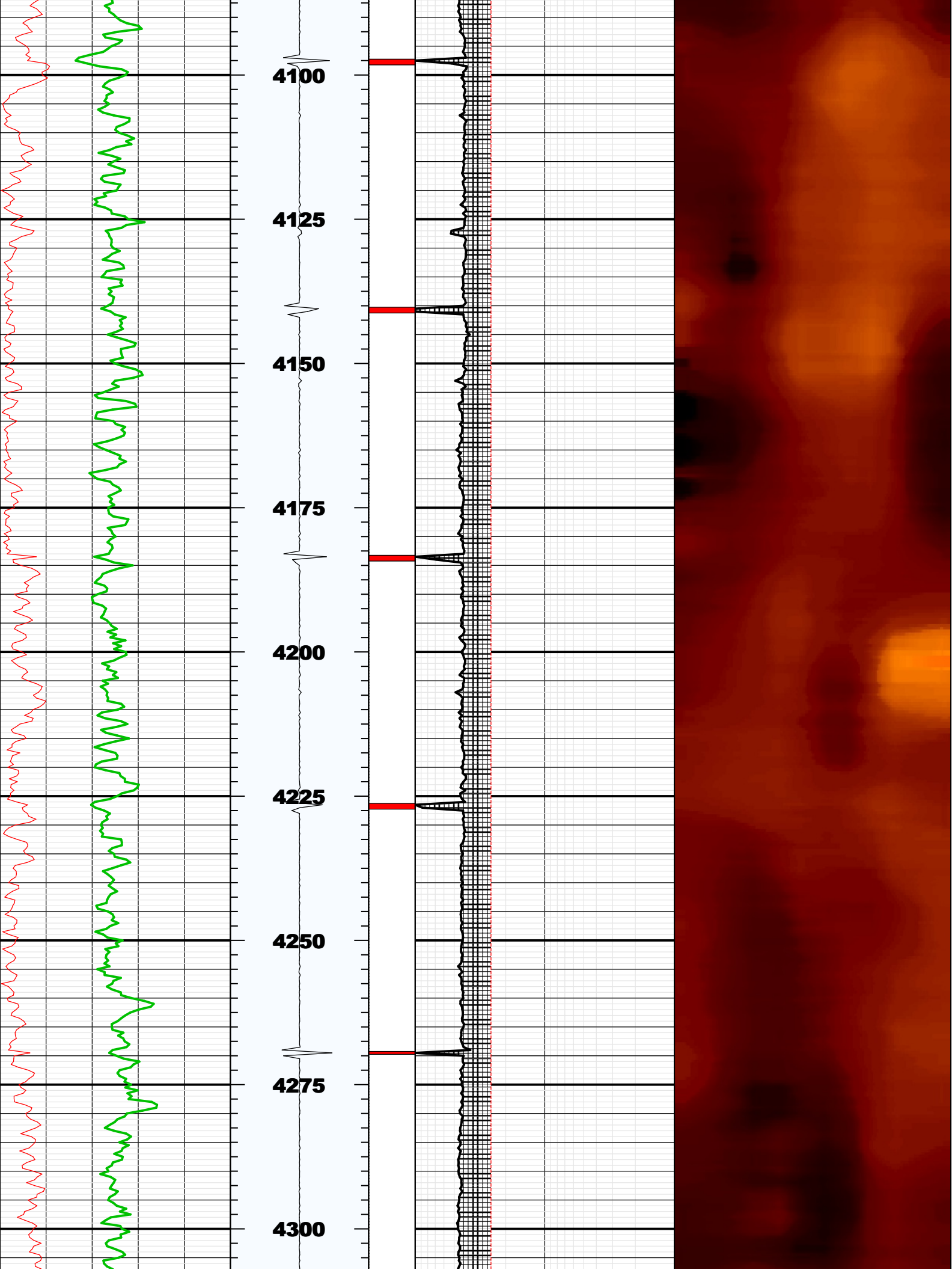


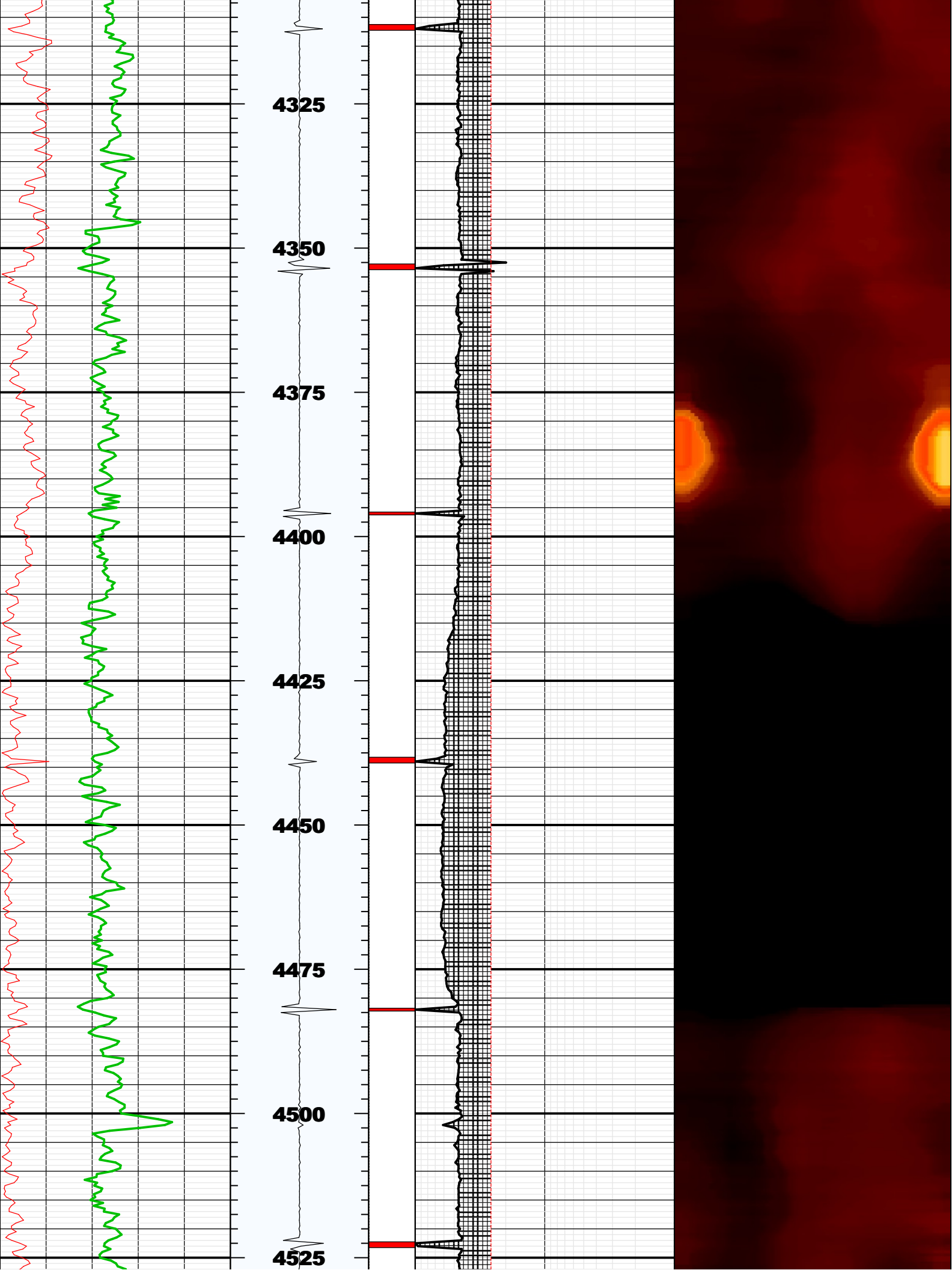


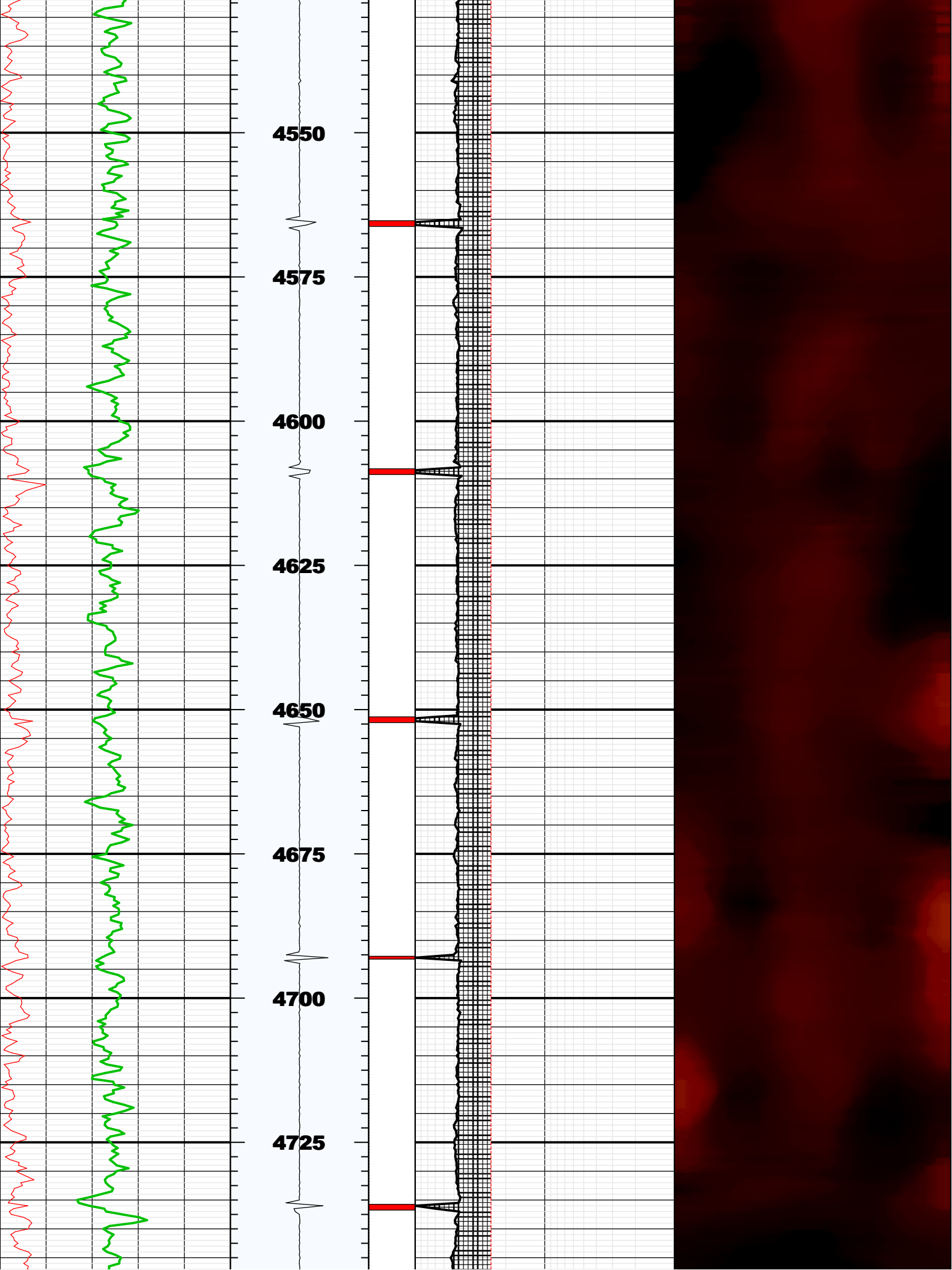


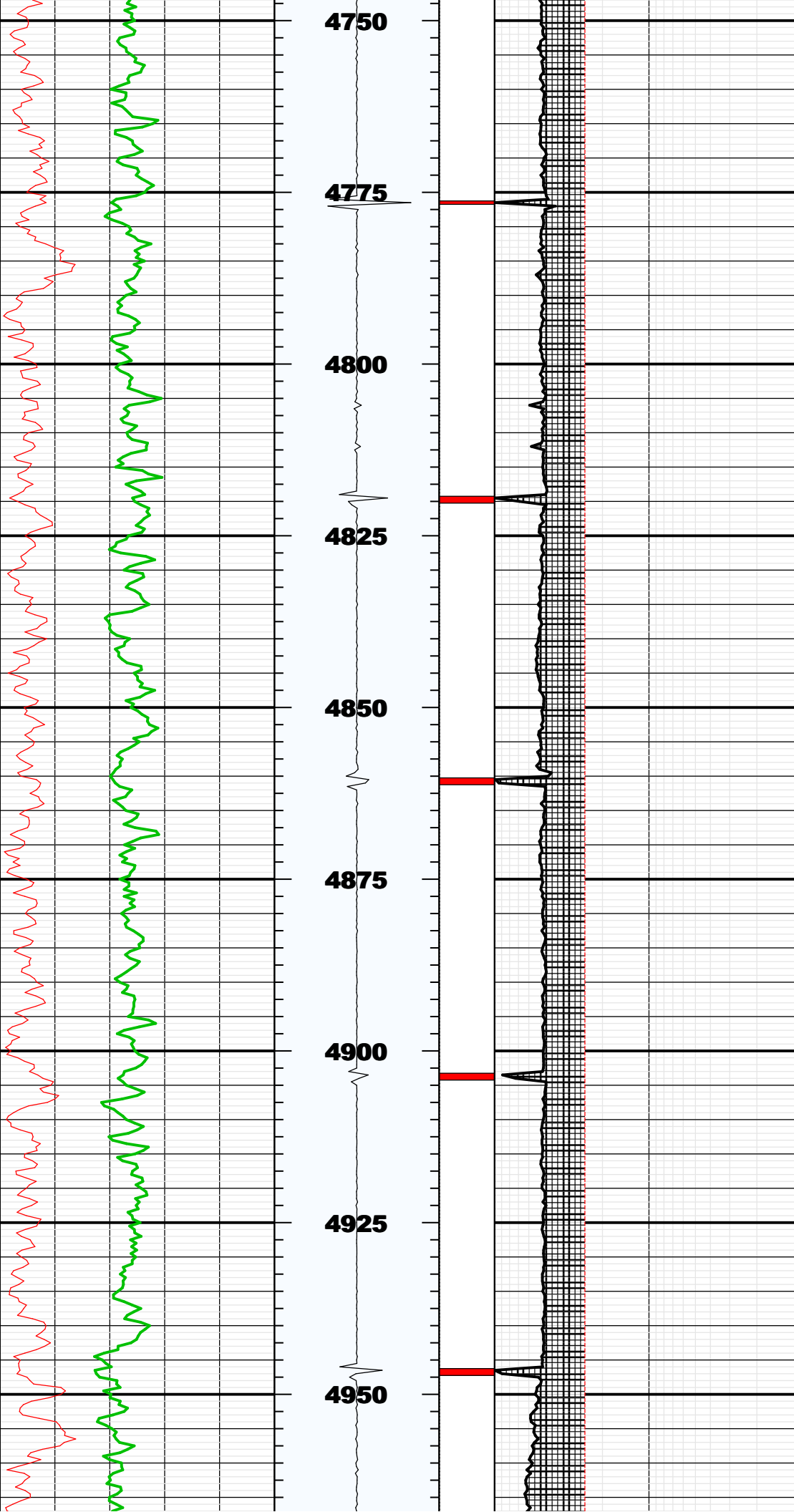


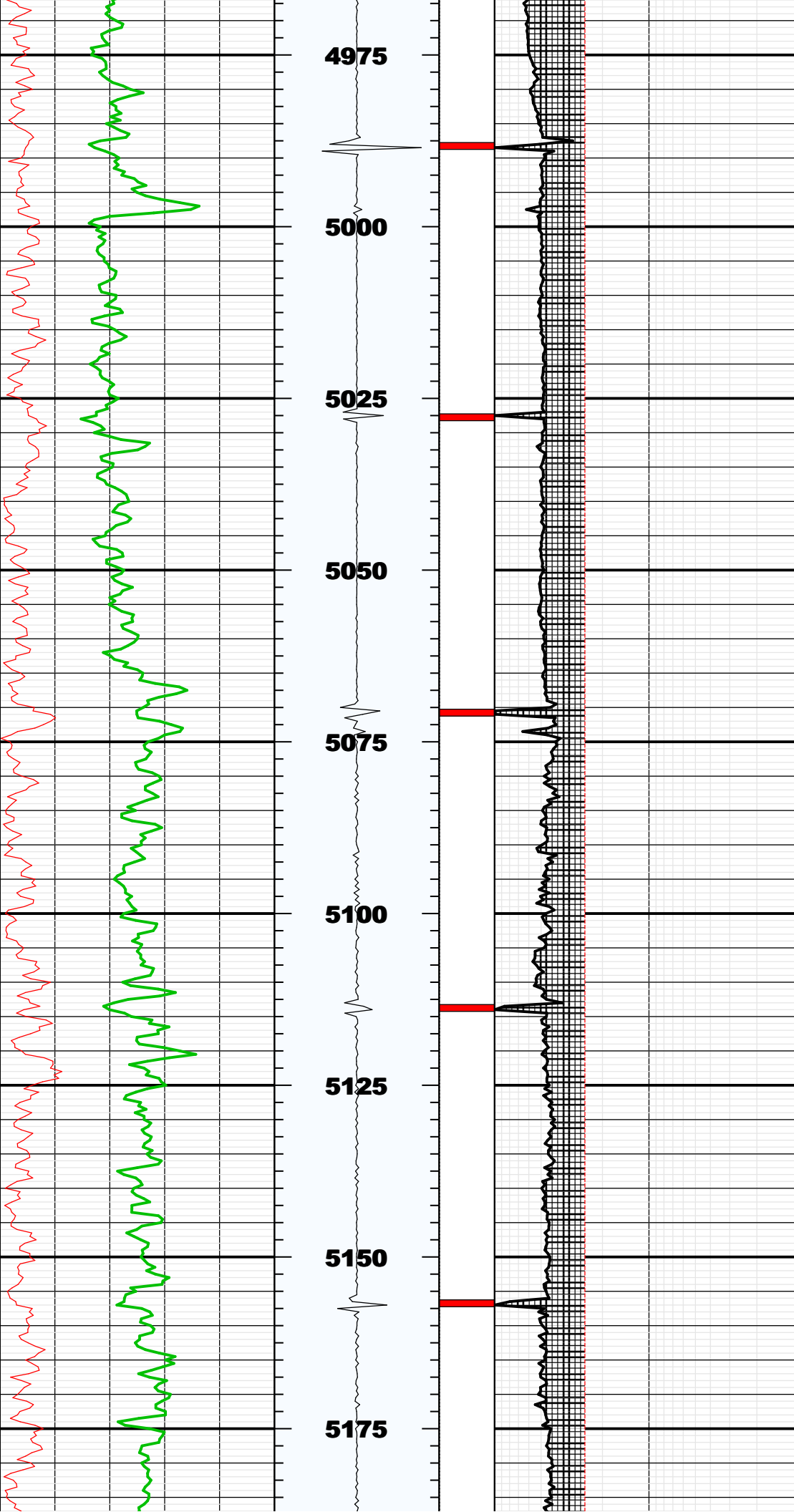


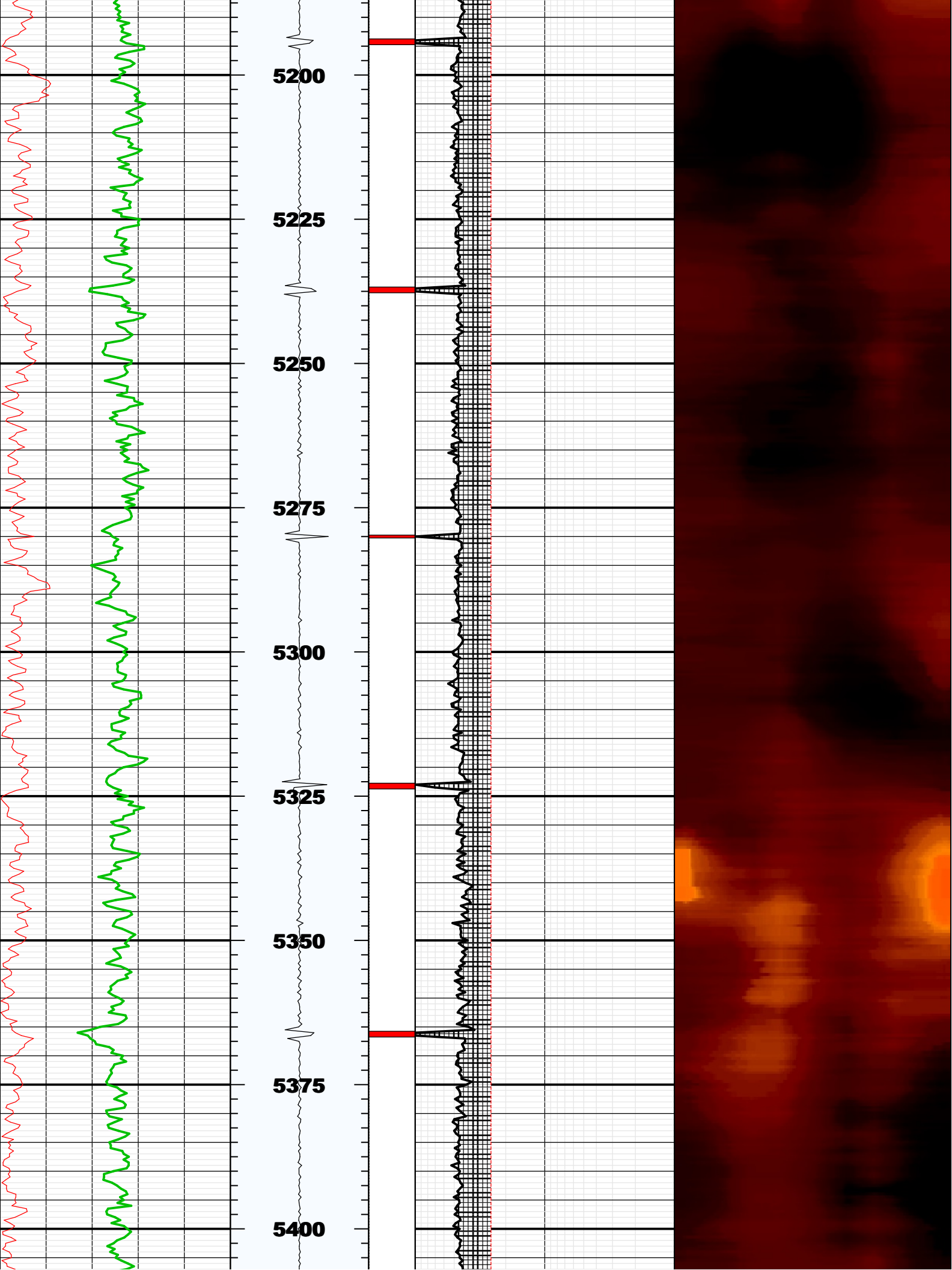


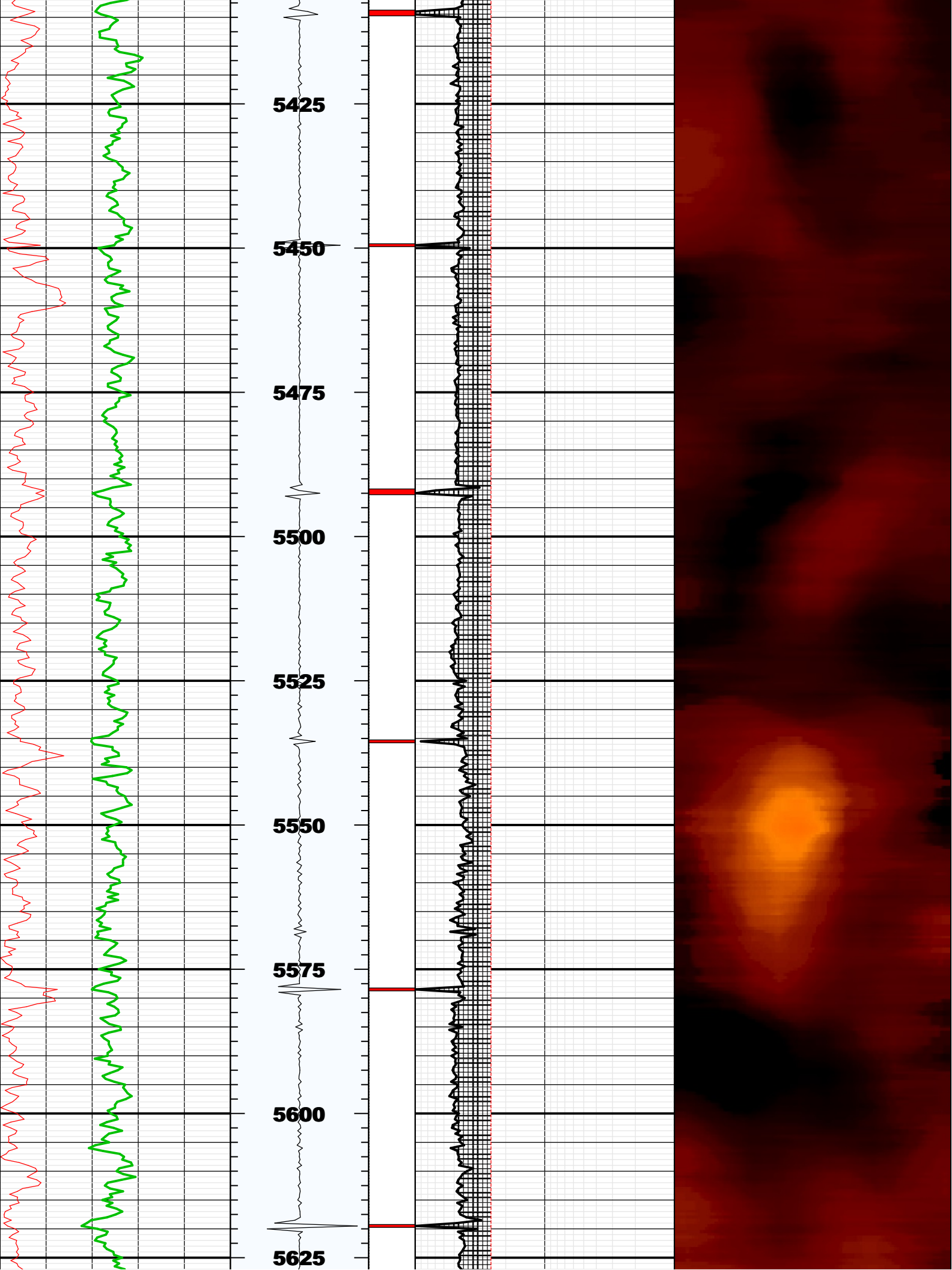


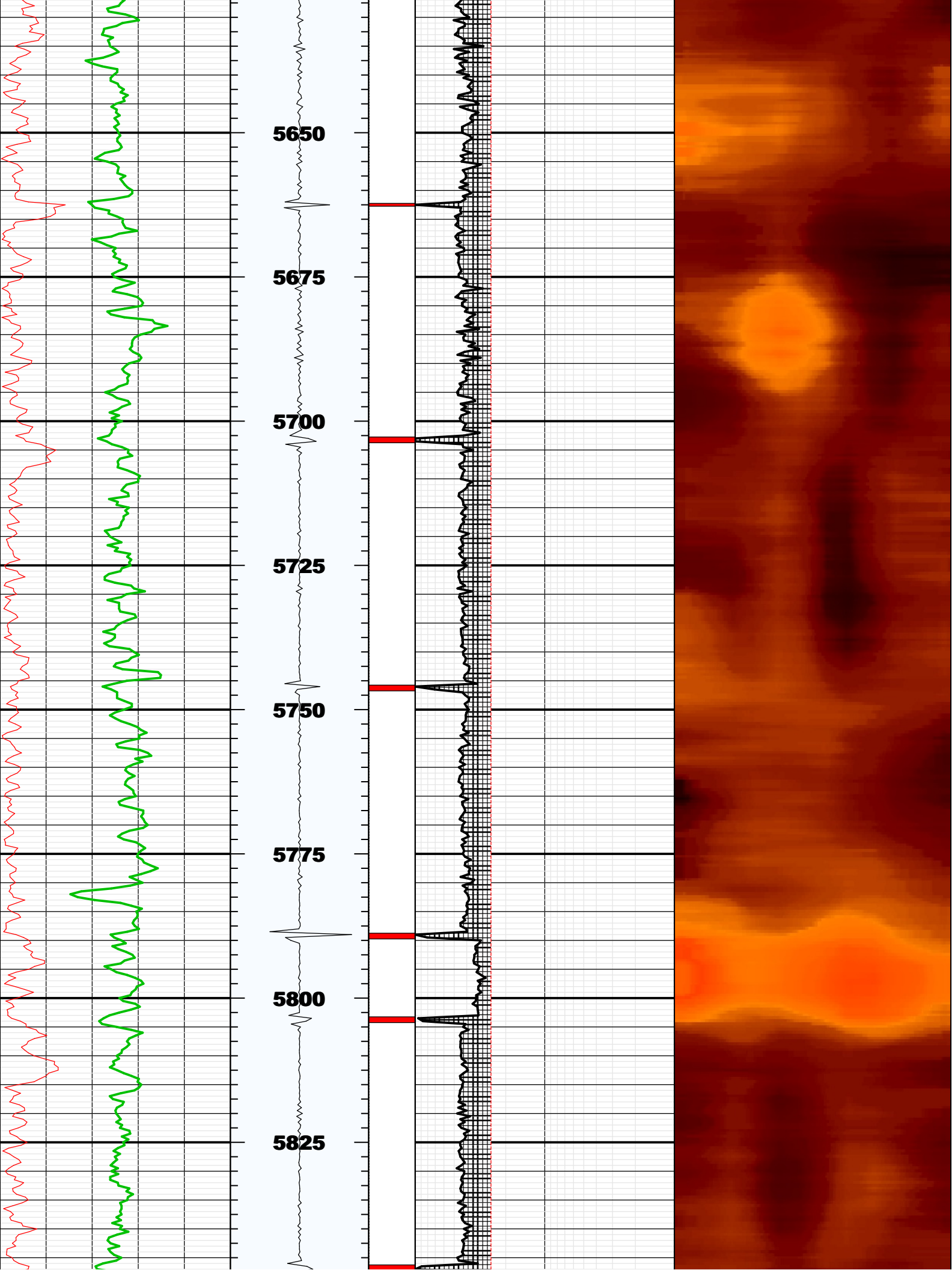


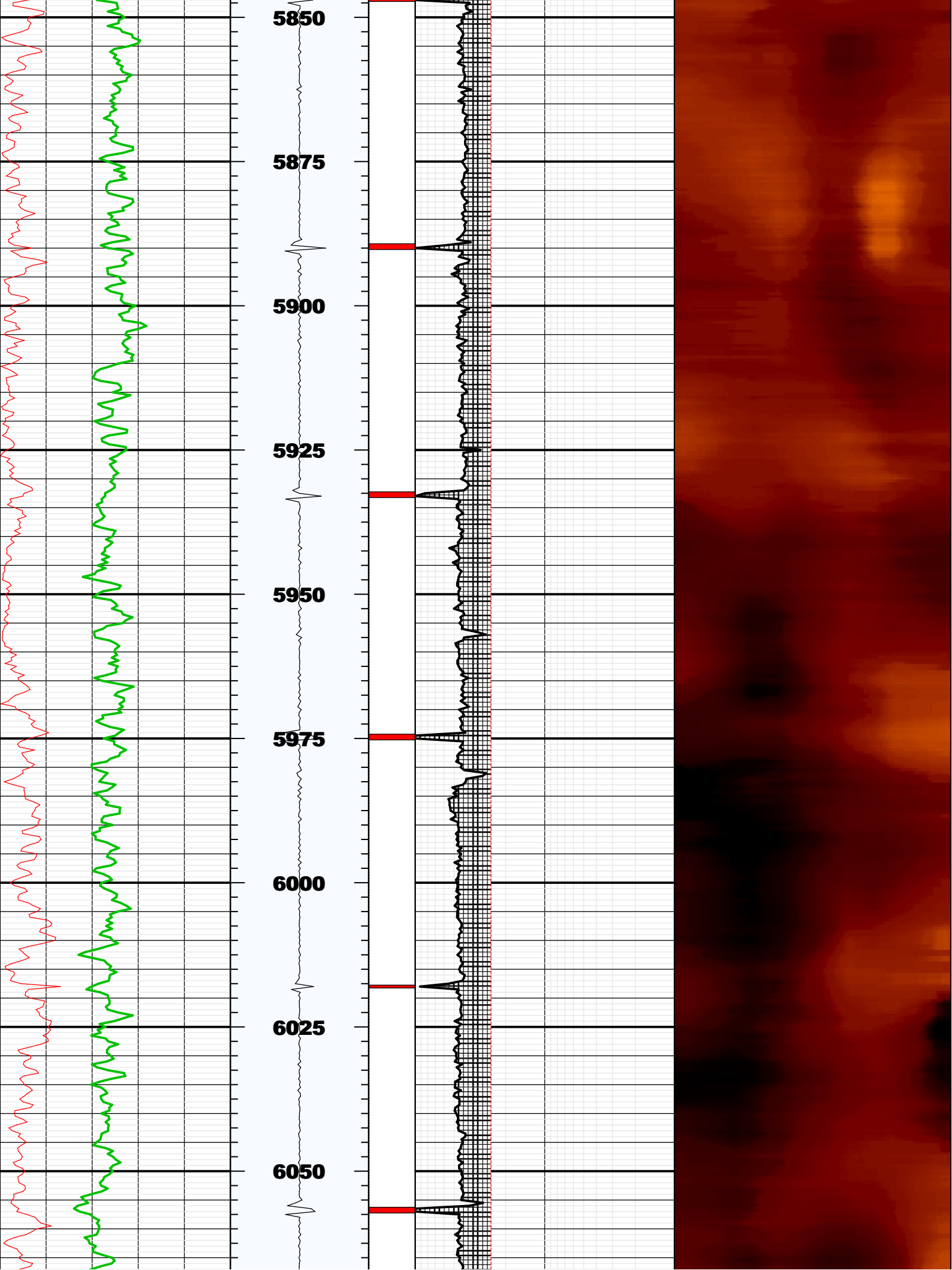


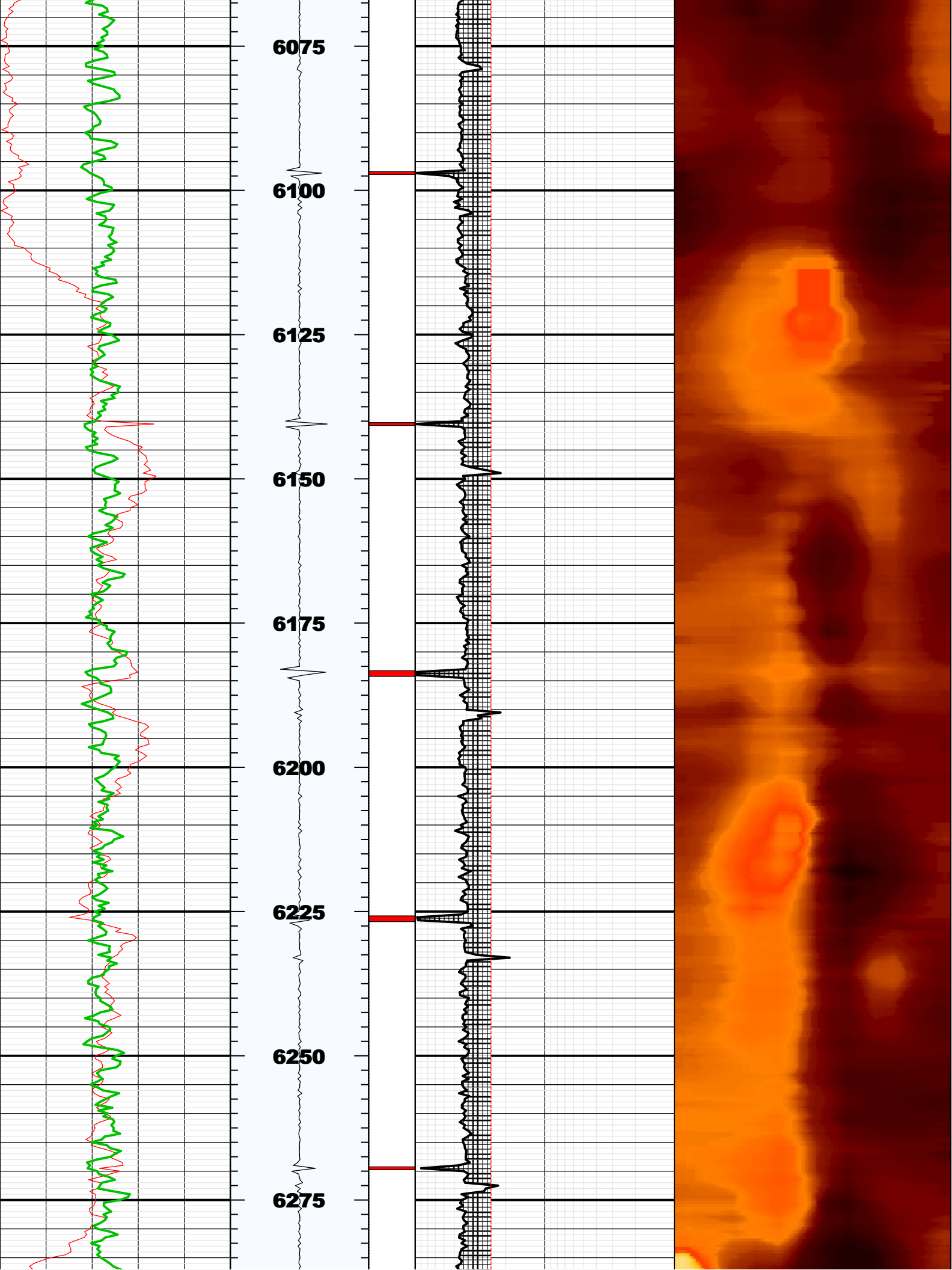


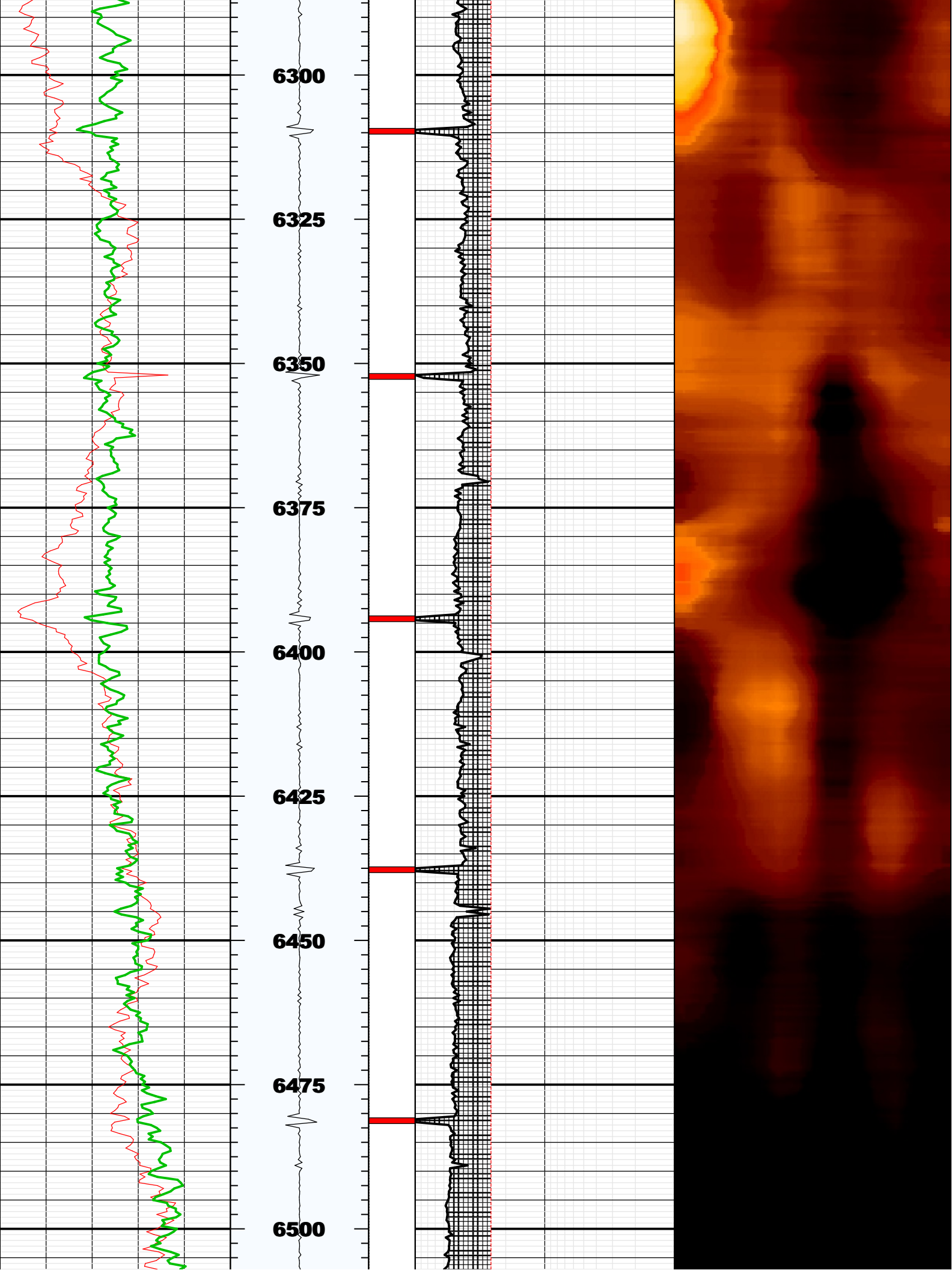


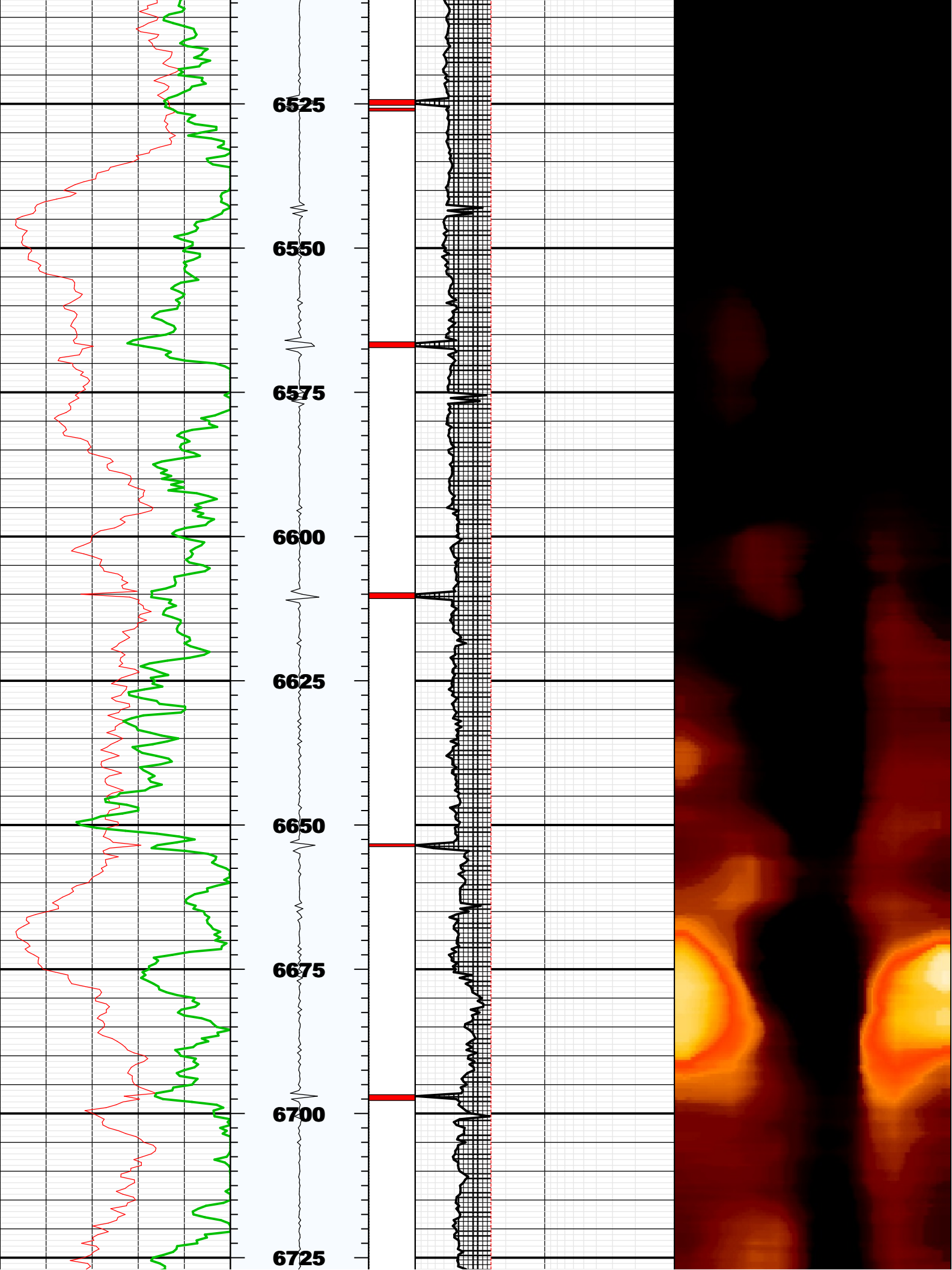


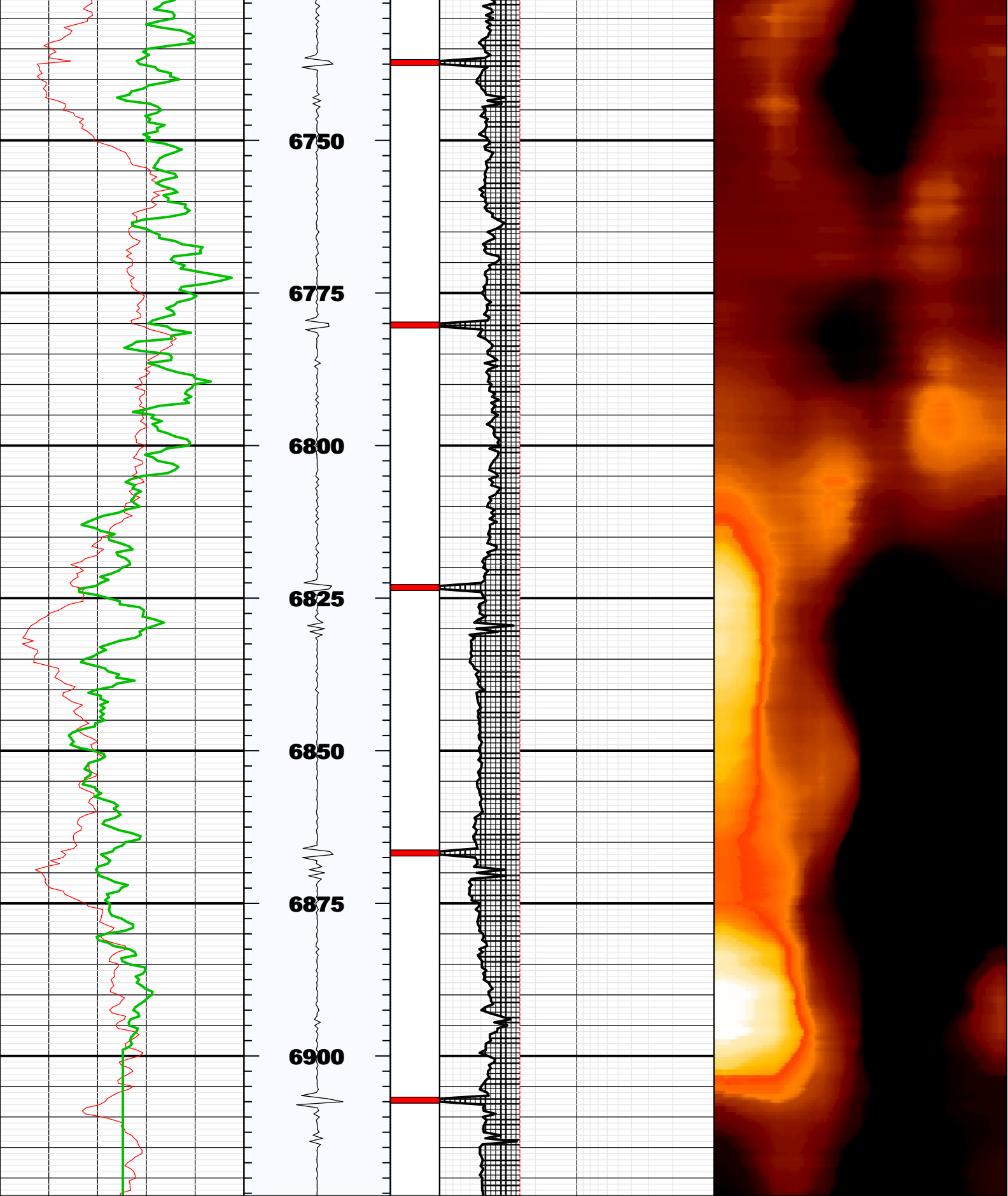








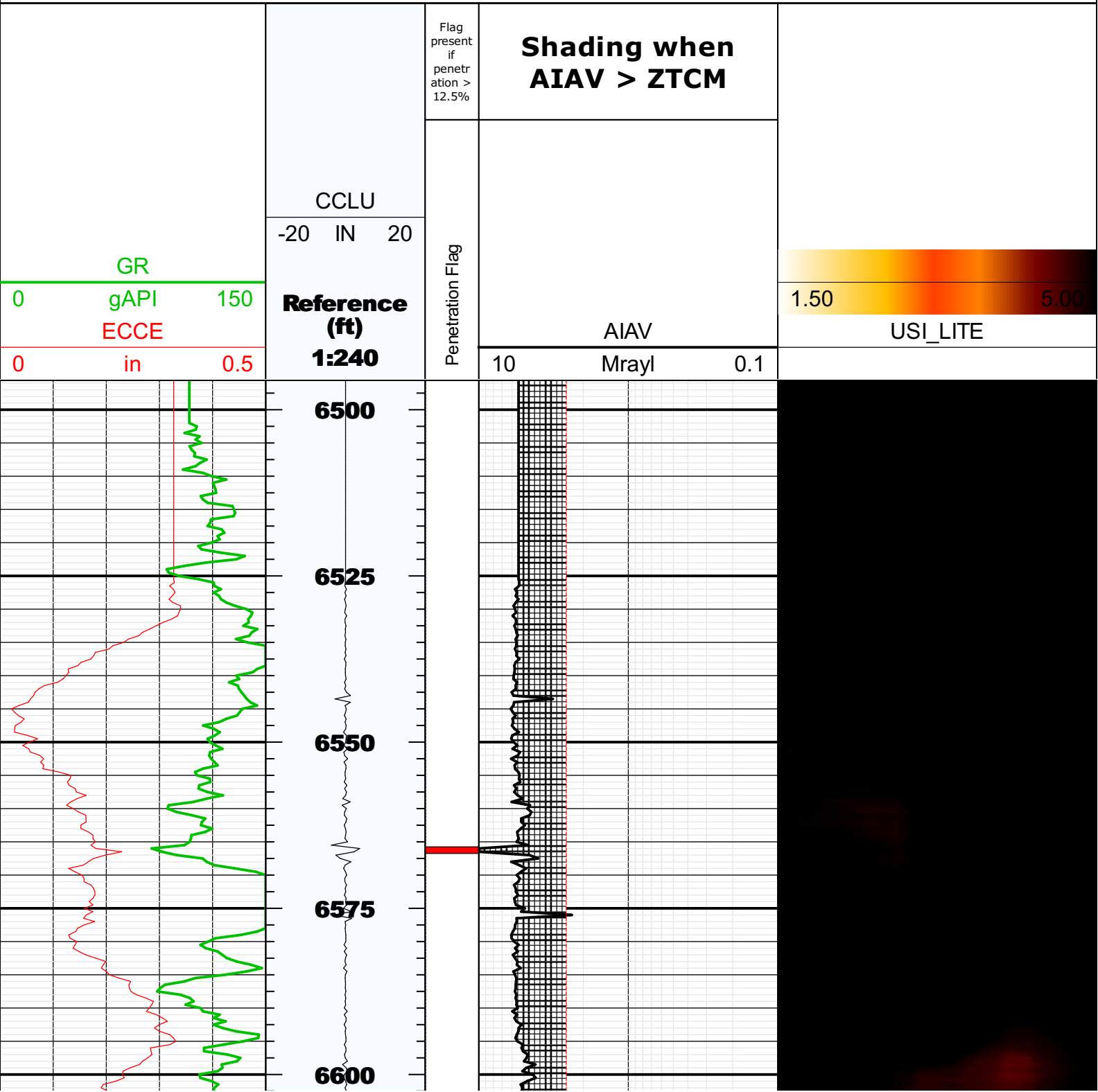


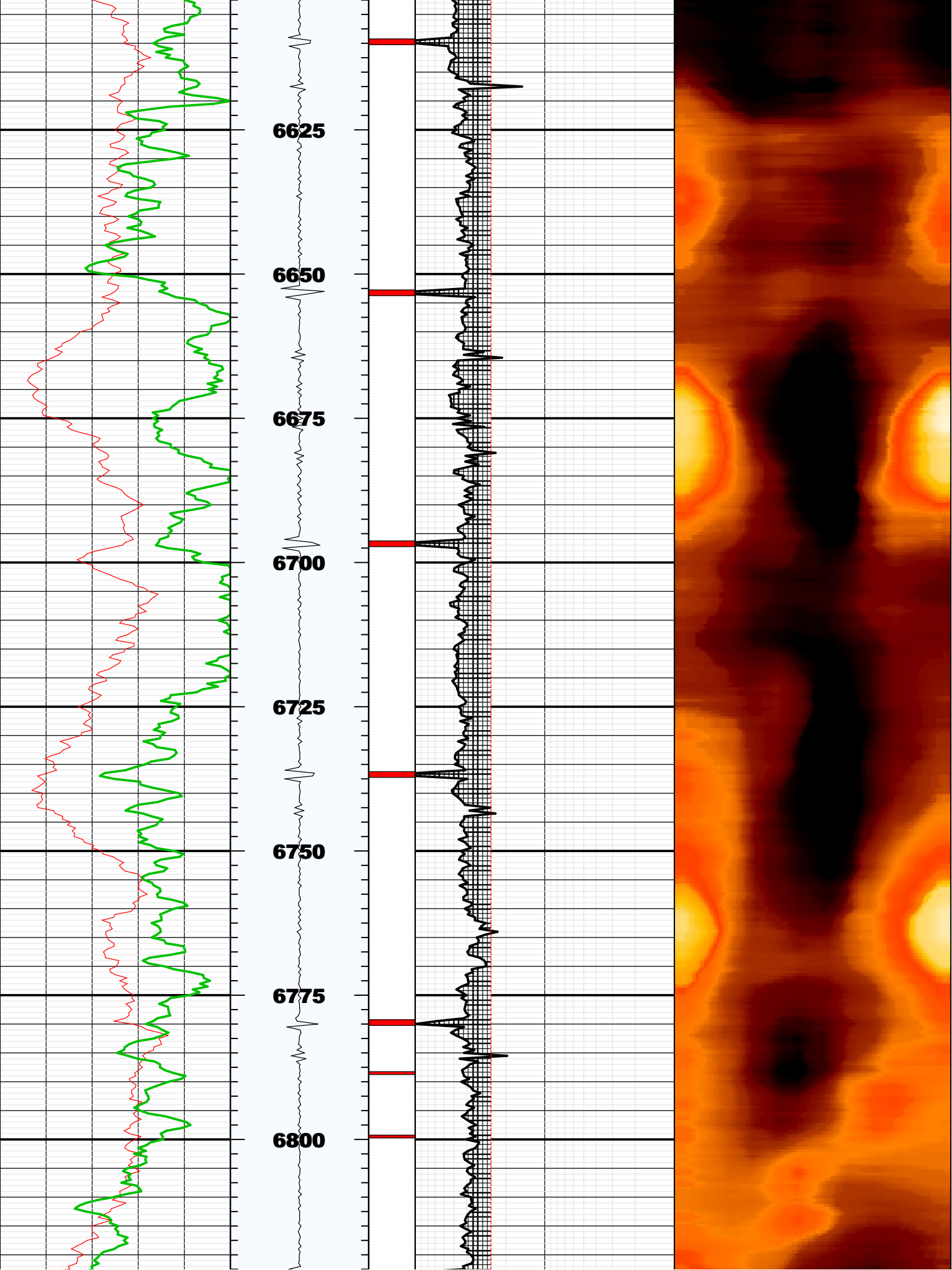


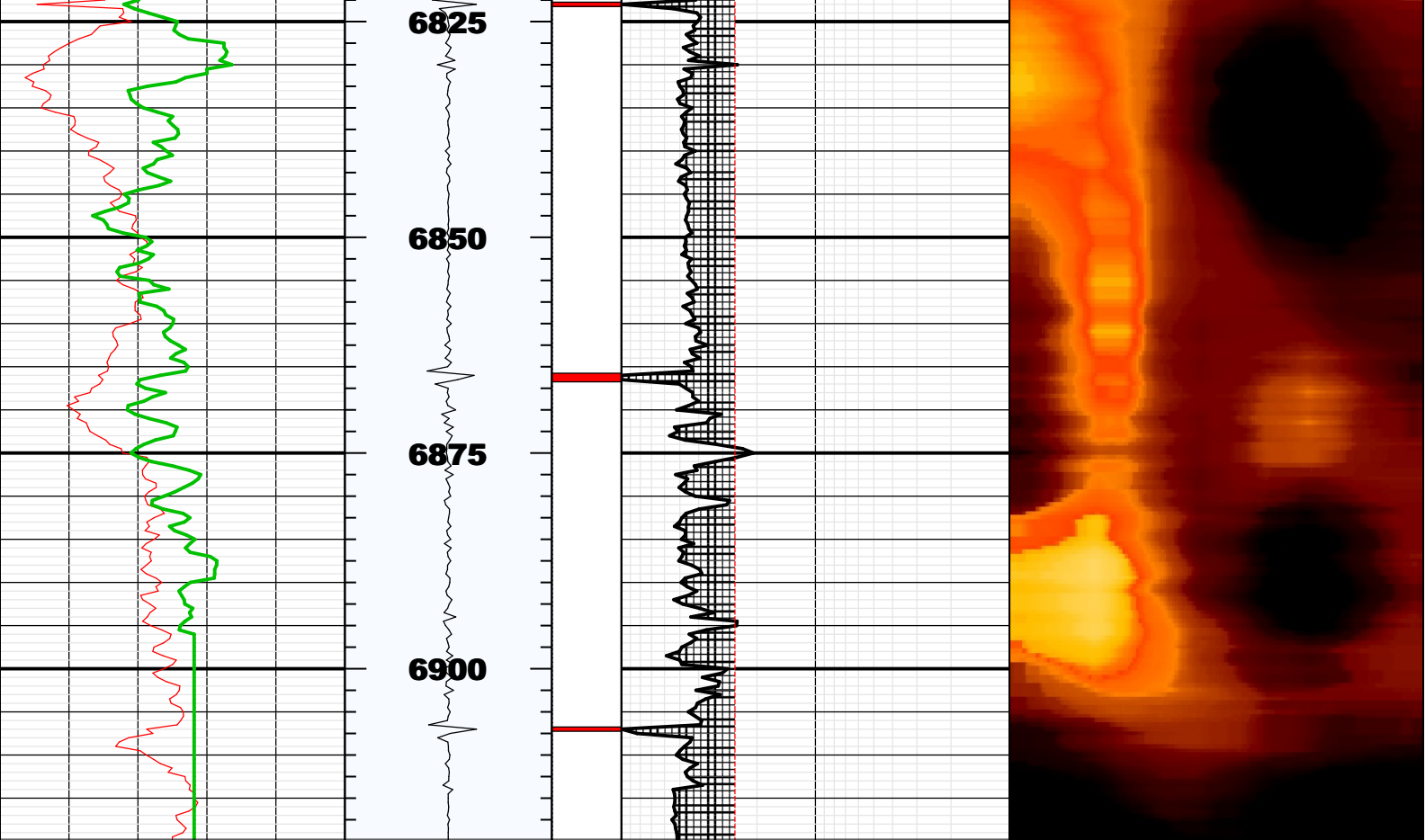
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	10.00000	LB/G	Drilling Fluid Density
DFVL	188.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	60	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	32.19594	US	Window Begin Time
WINE	76.59467	US	Window End Time
ZCAS	46.25000	MRAY	Acoustic Impedance of Casing
ZINI	-1.00000	MRAY	Initial Estimate of Cement Impedance
ZMUD	1.80000	MRAY	Acoustic Impedance of Mud
ZTCM	2.60000	MRAY	Acoustic Impedance Threshold for Cement
ZTGS	0.30000	MRAY	Acoustic Impedance Threshold for Gas
WLEN	22.50350	US	T [^] 3 Processing Length

Repeat Pass

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Field: Wattenberg







Fluid Properties Used for Main Pass

