

Company: Noble Energy Inc

Well: Reliance E23-66-1HC
Field: Wattenberg
County: Weld State: Colorado

County: Weld		USI-LITE	
Field: Wattenberg			
Location: NESE Sec. 23 T6N R65W			
Well: Reliance E23-66-1HC			
Company: Noble Energy Inc			
LOCATION			
Permanent Datum:		GL	
Log Measured From:		KB	
Drilling Measured From:		KB	
API Serial No.			
05-123-37605-0000		Section 23	
Logging Date		Township 6N	
Run Number		Range 65W	
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Fluid Level			
Salinity			
Density			
Fluid Level			
BIT/CASING/TUBING STRING			
Bit Size			
From			
To			
Casing Size			
Weight			
Grade			
From			
To			
Max Recorded Temp			
Logger on bottom (date)			
Location			
Recorded By			
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: 1109 Calibration Date: Calibrator Serial Number: Number Of Calibration Points: Calibration RMS: Calibration Peak Error:	Serial Number: U711136 Length: 17200.00000

DISCLAIMER

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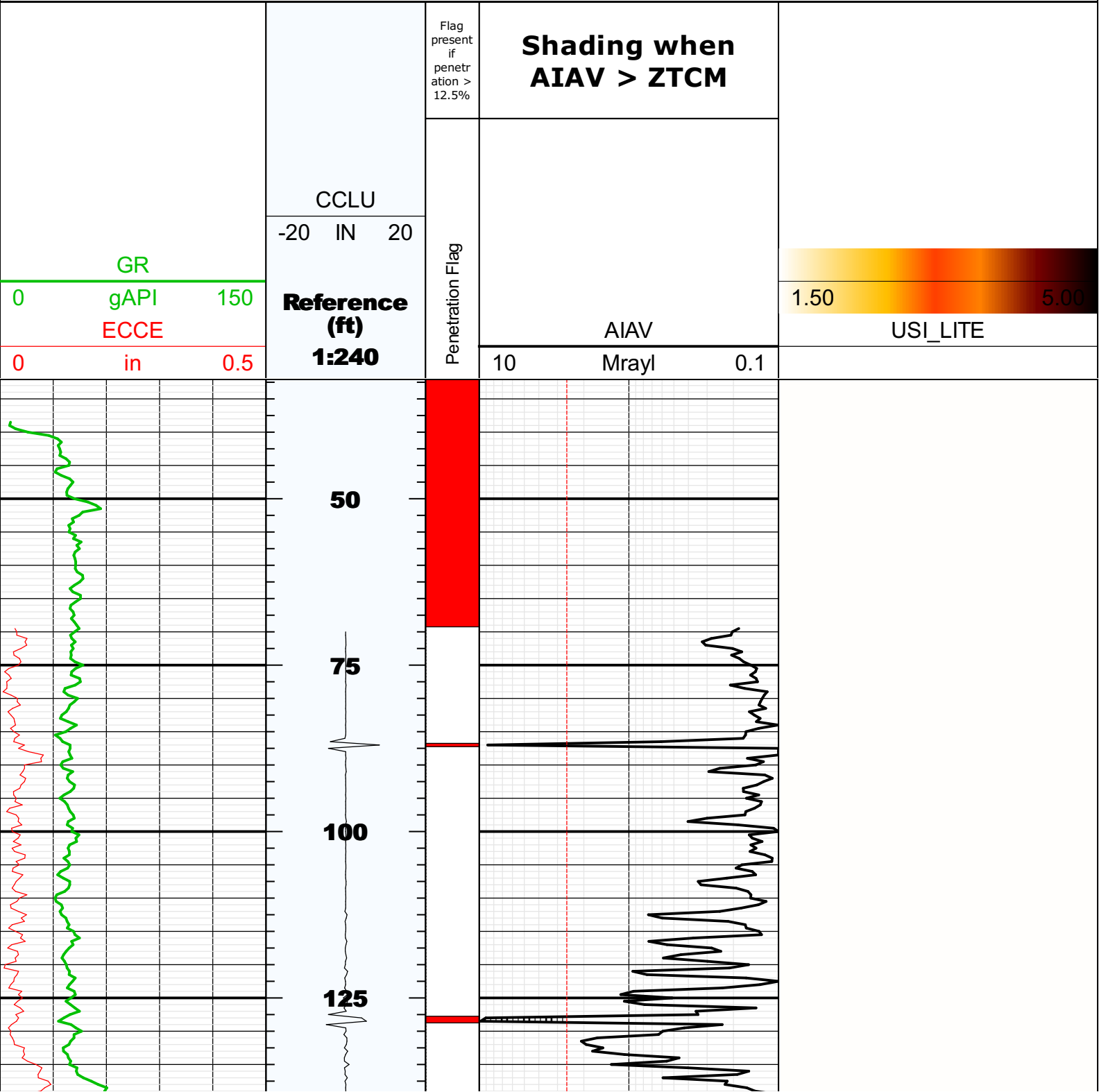
This is the first run in hole.
Toolstring run as per toolsketch.
Log Objective Cement Evaluation.
0 PSI repeat pass and 2500 PSI main pass.

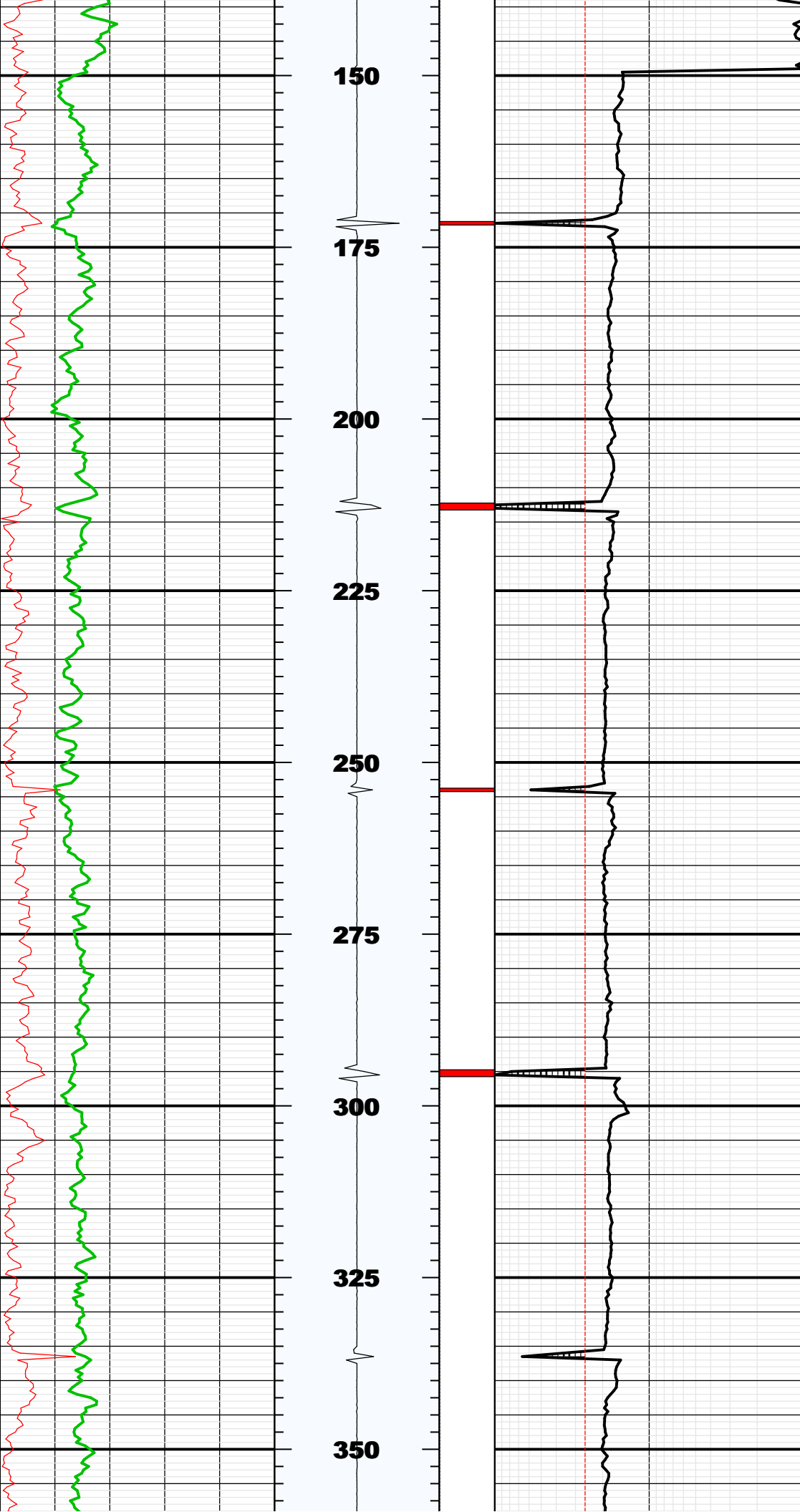
Estimated TOC @ 1130'. Expected TOC @ 1419'.
Top of 4.5 liner at 7284.2'.
Bottom log interval at 6920' due to deviation (could not spin sub below this depth).
Bottom hole temperature was 236.65 degF.

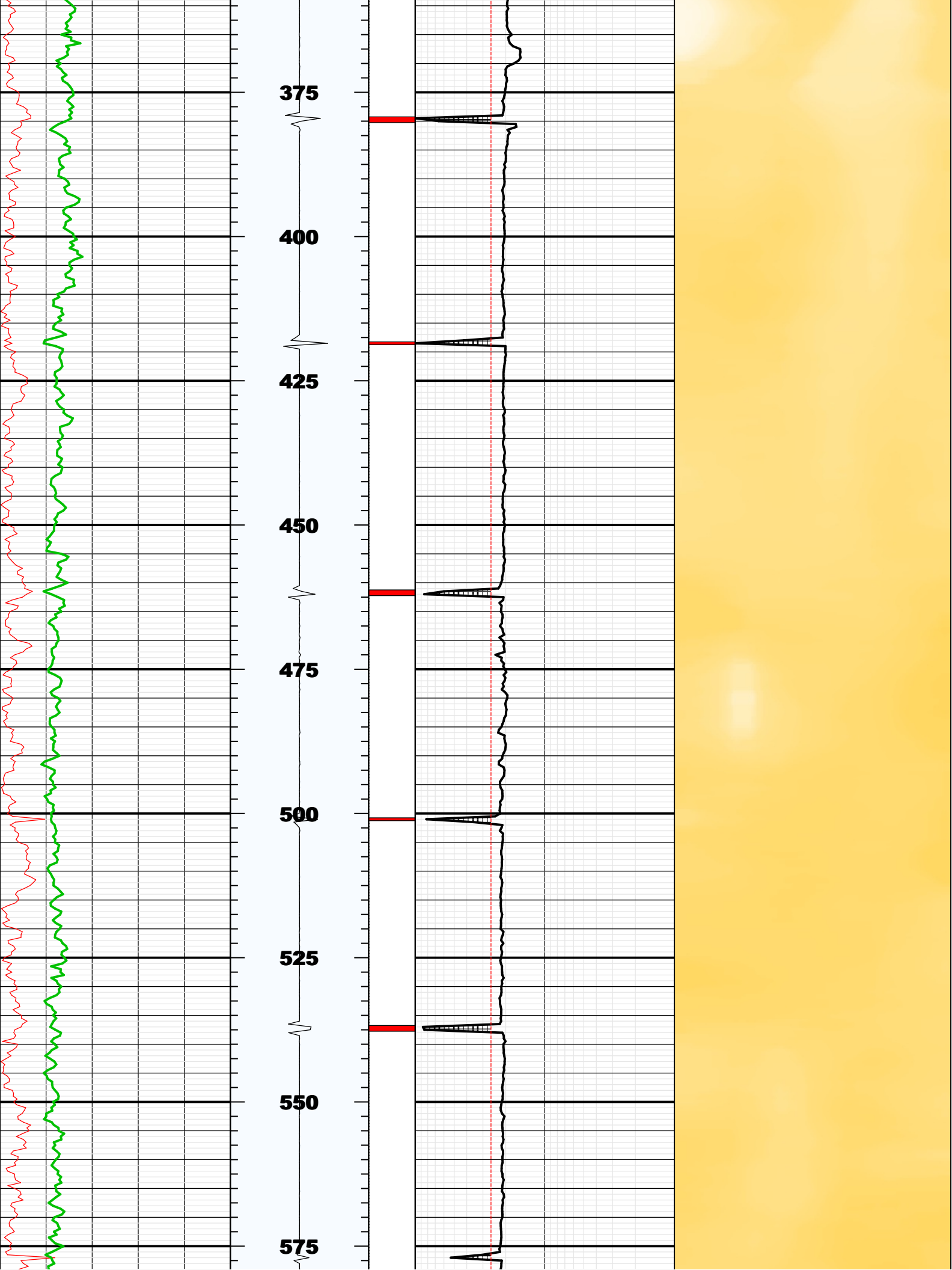
Thank you for choosing Schlumberger Wireline.
SLB crew J. Musgrave I. Derry K. Ondrus P. Brookens.

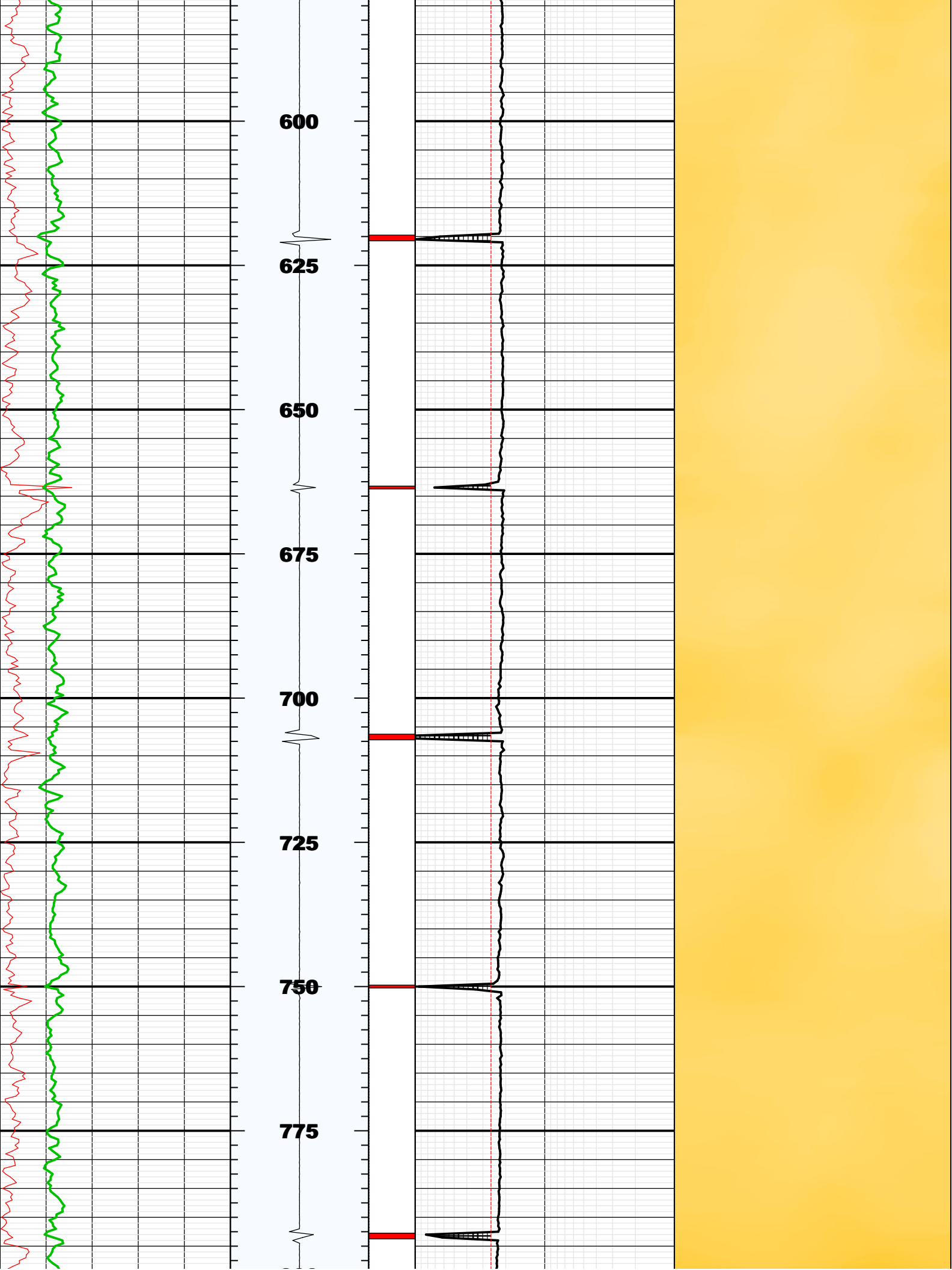
Main Pass

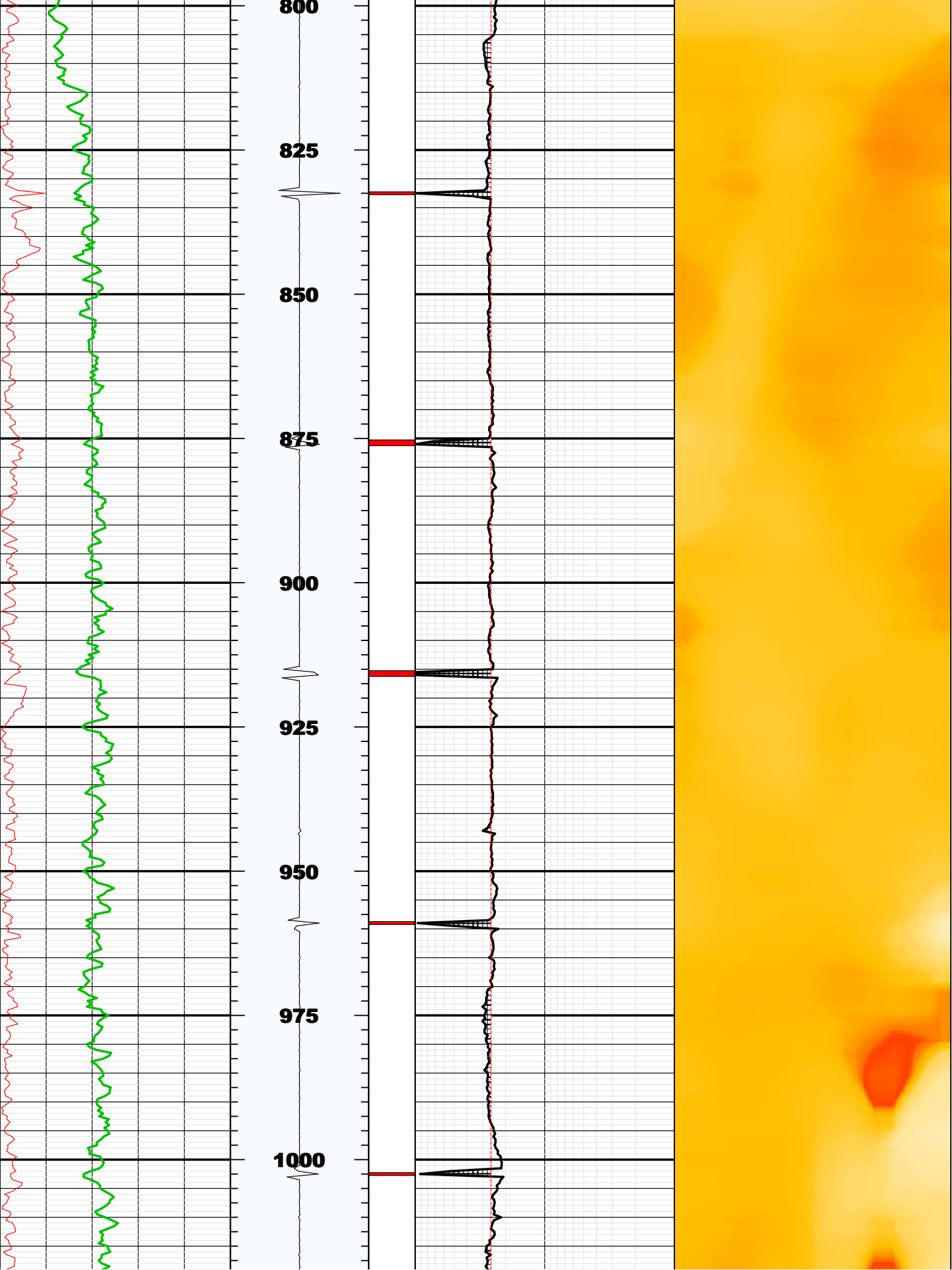
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Well: Reliance E23-66-1HC
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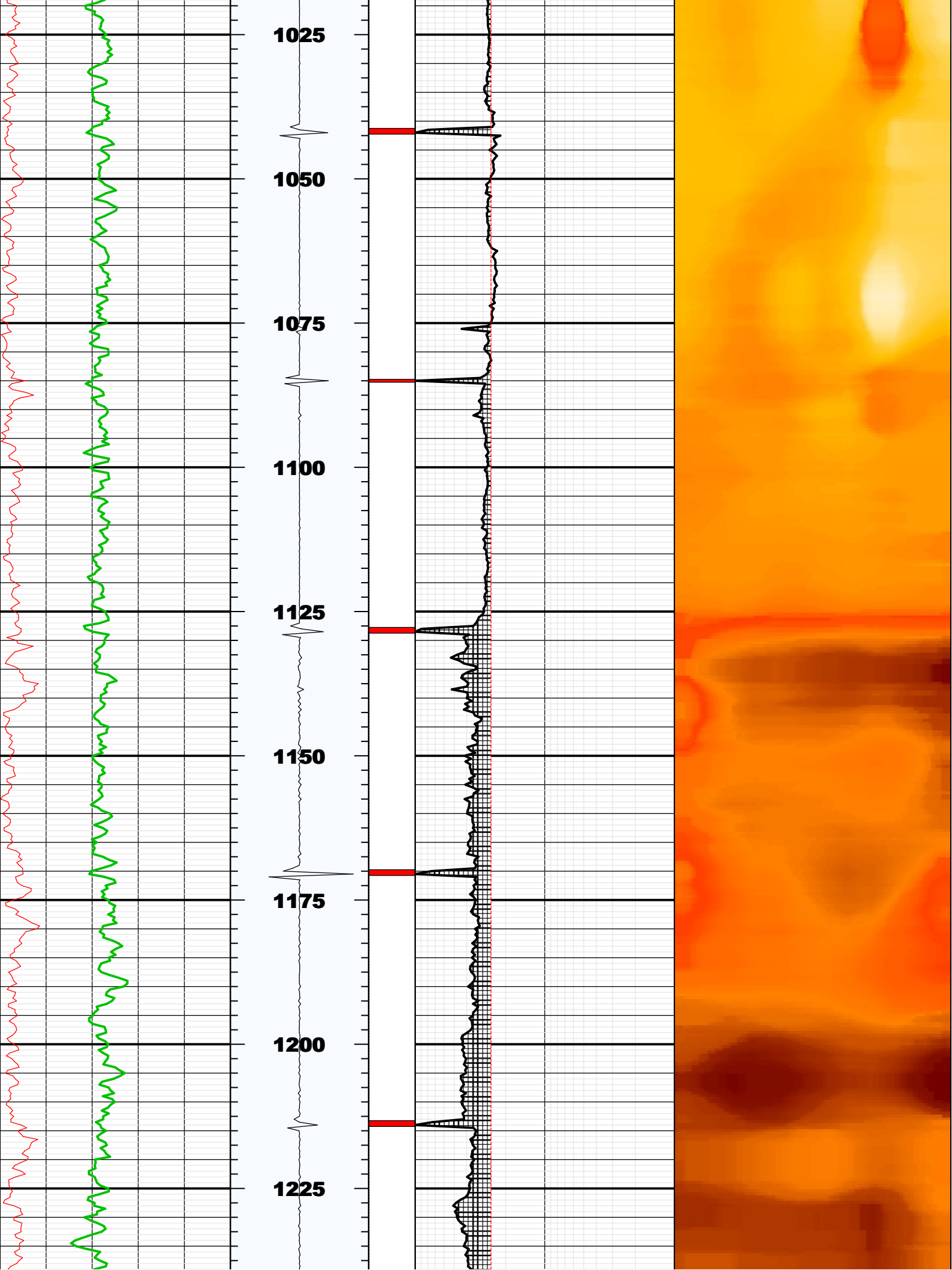


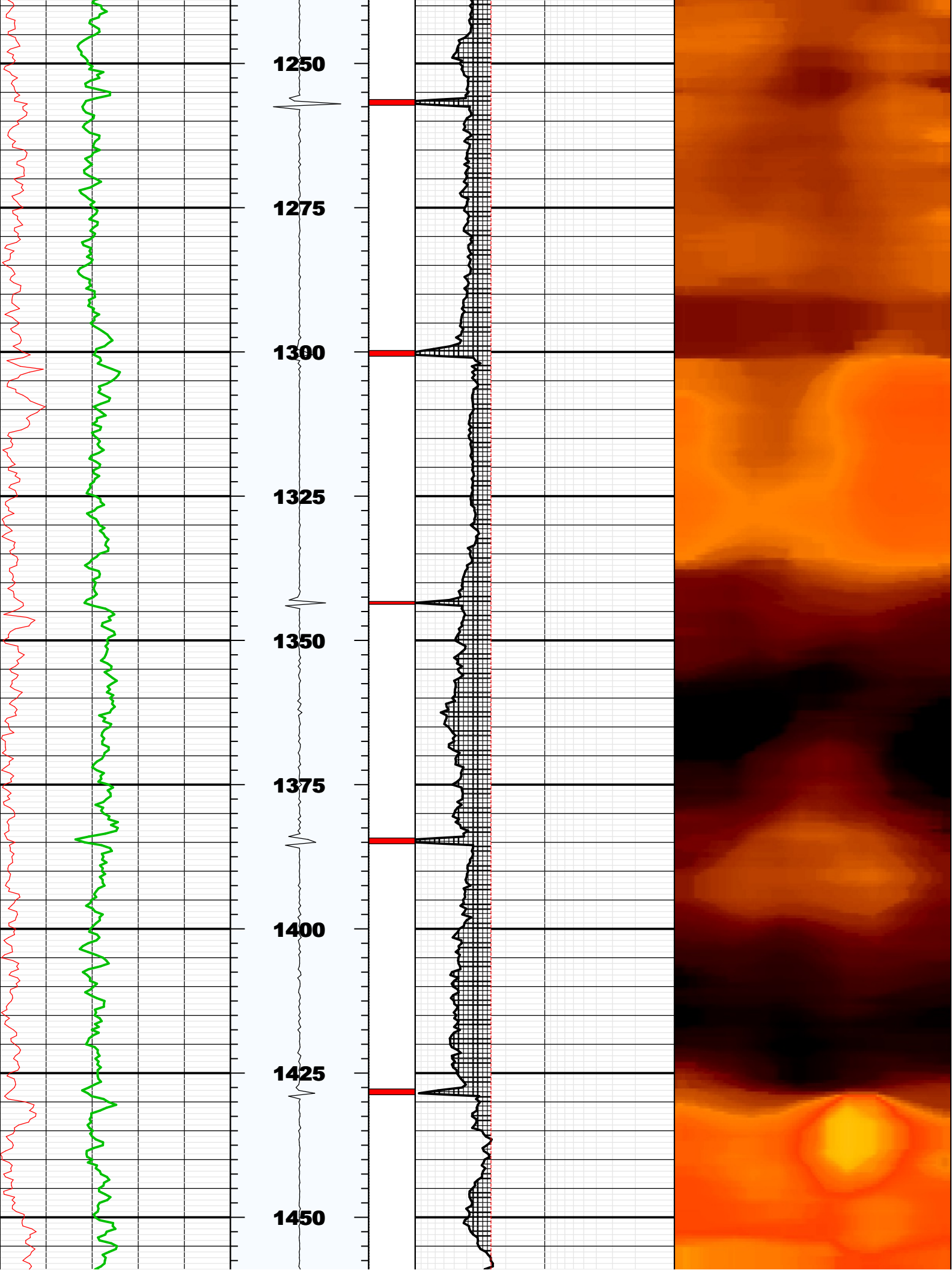


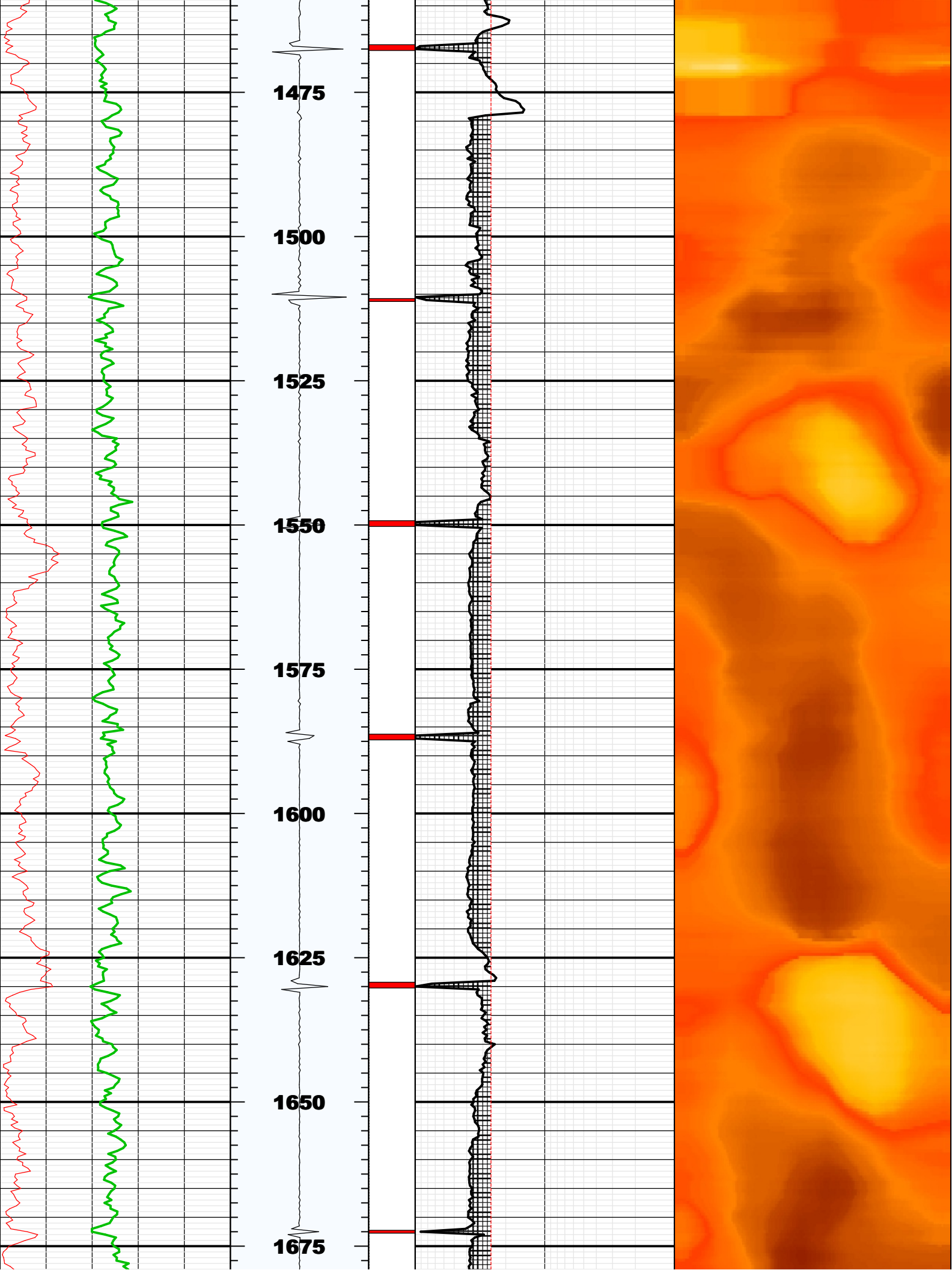


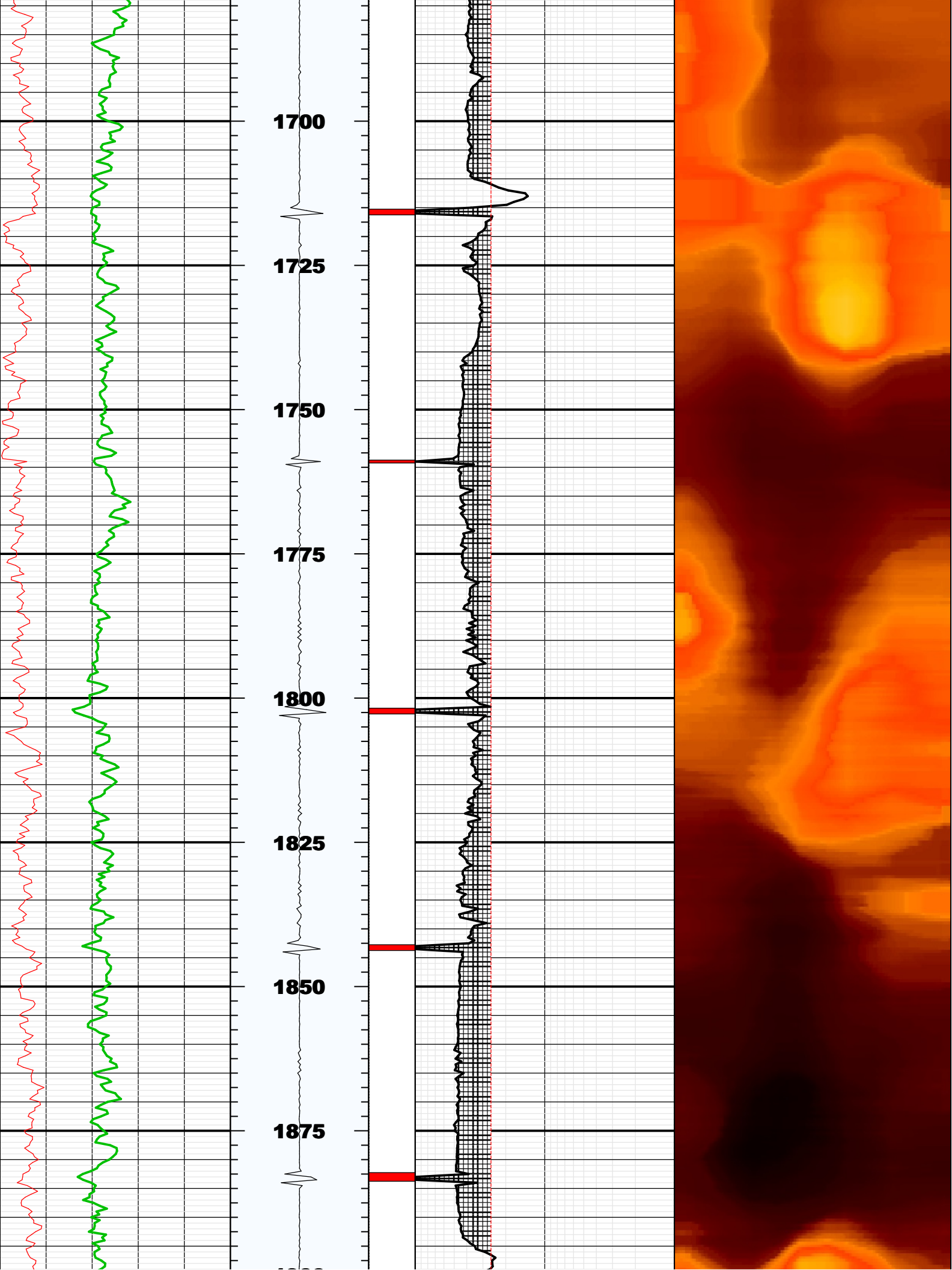


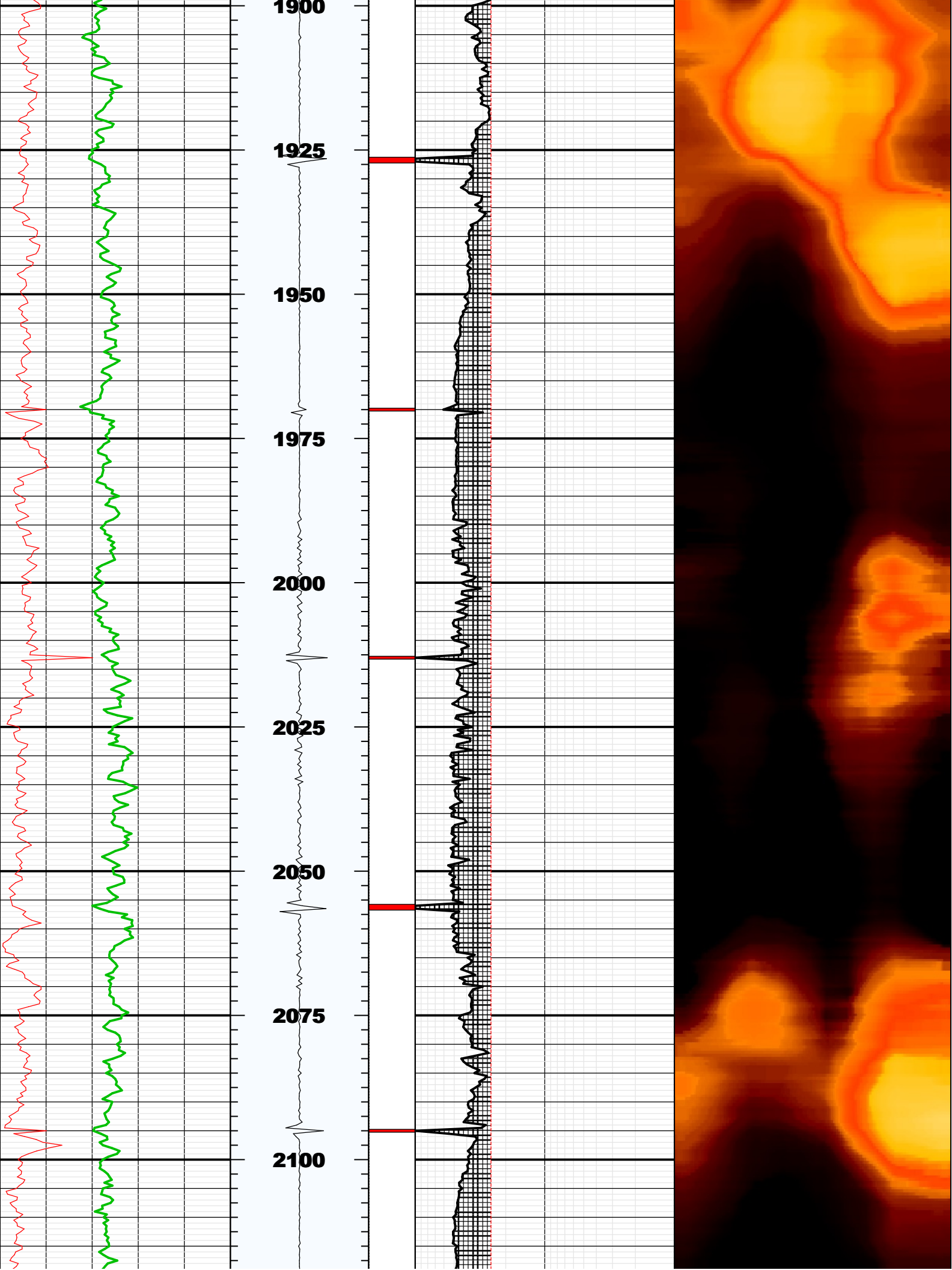


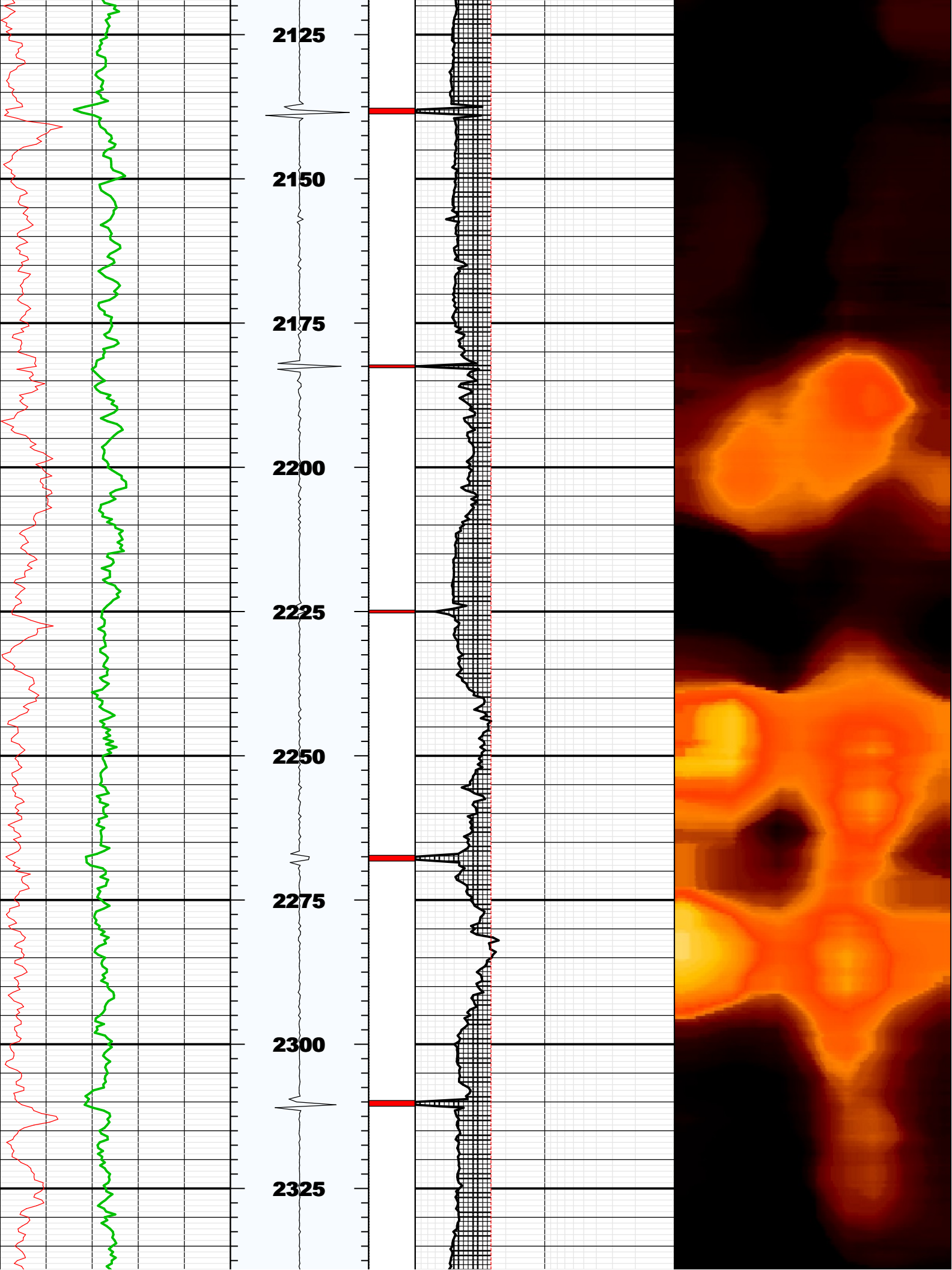


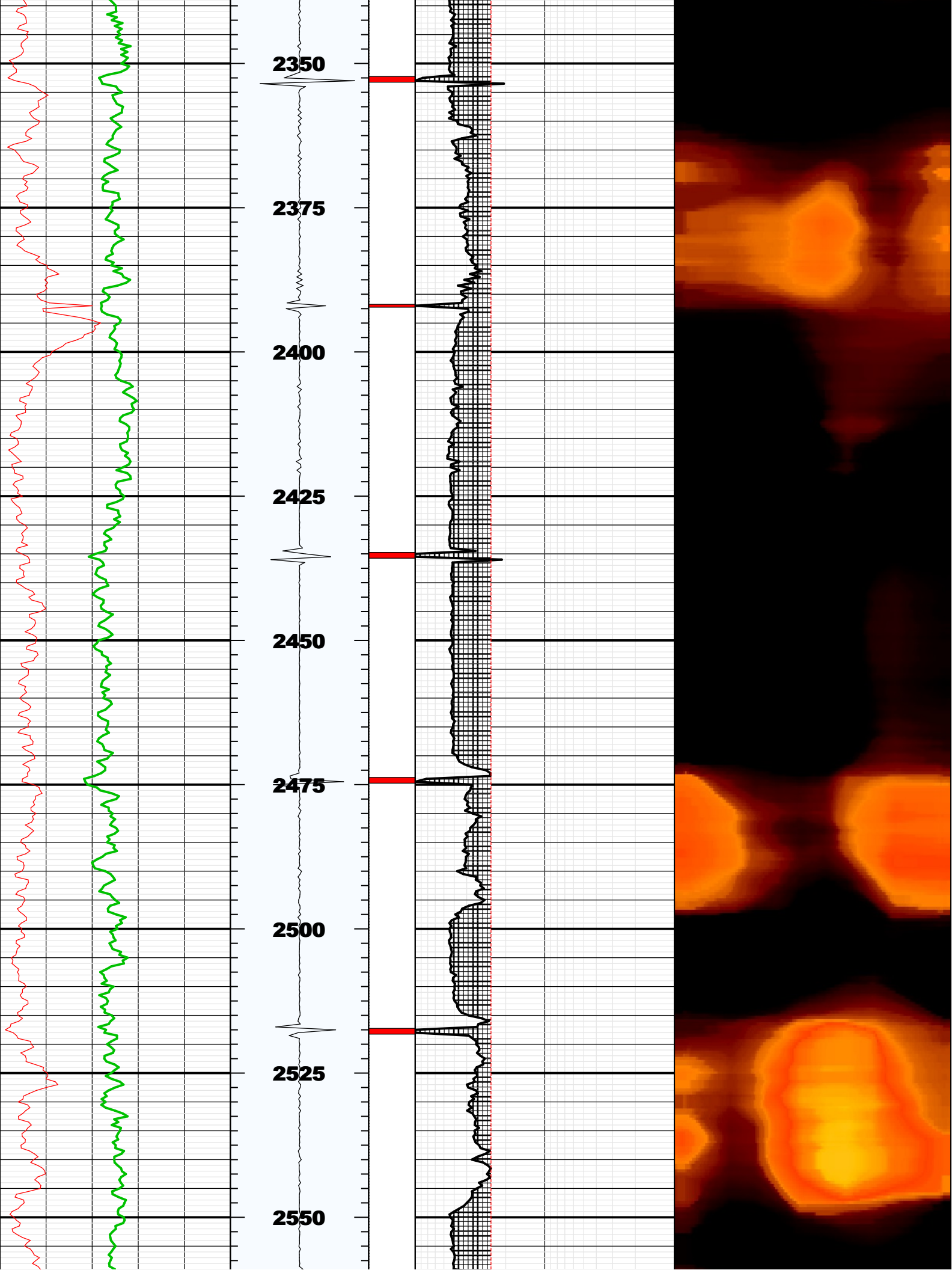


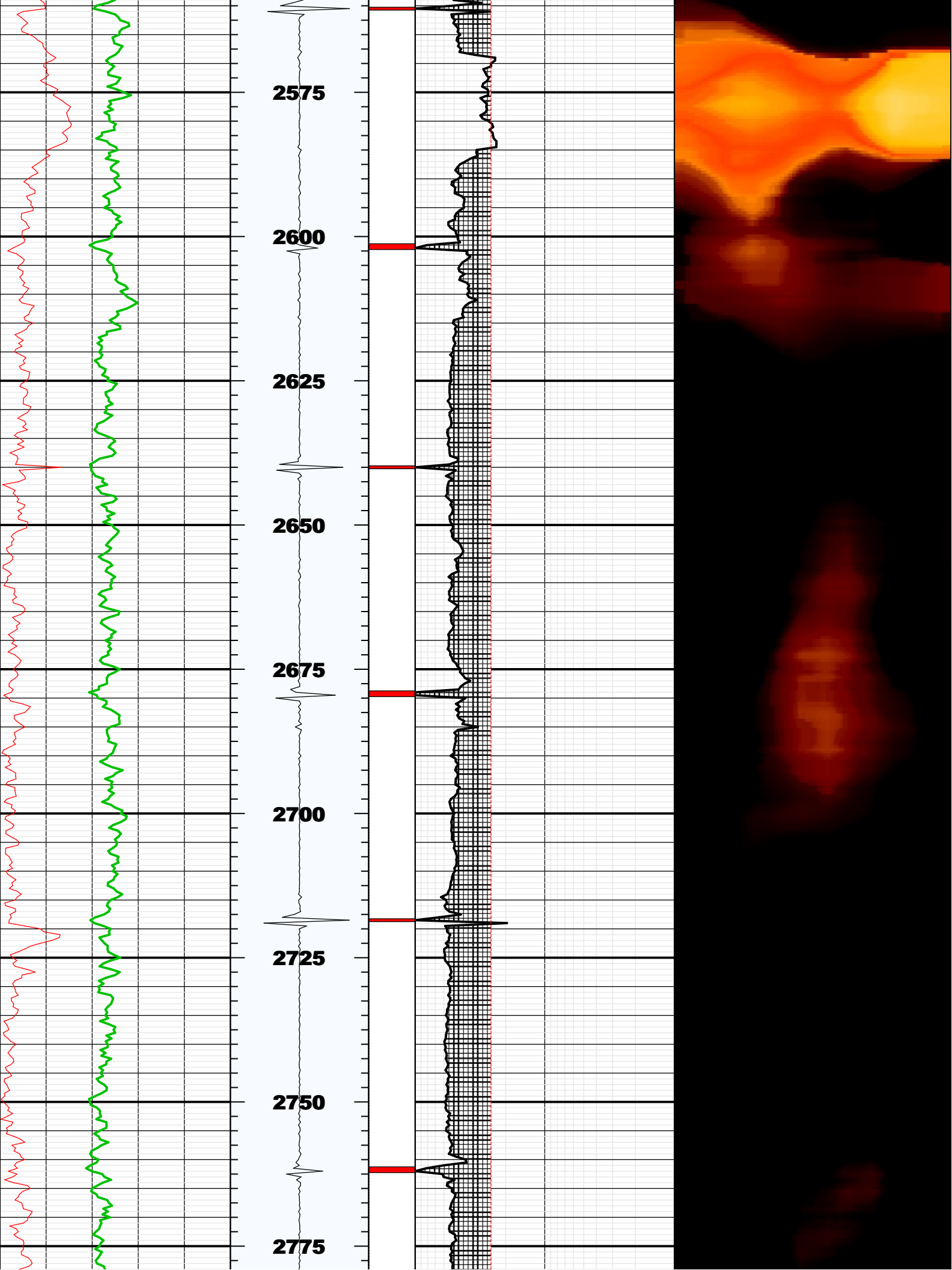


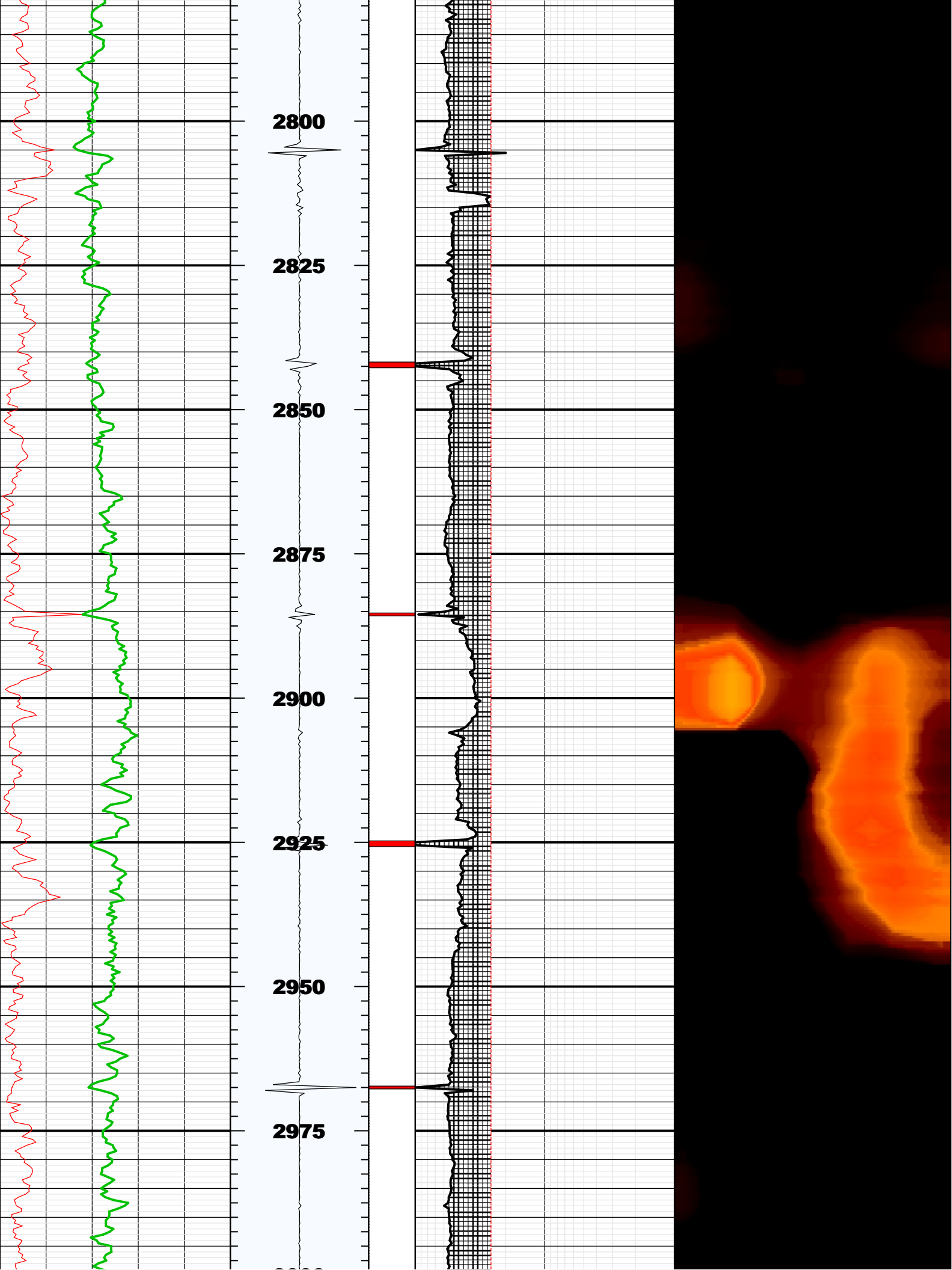


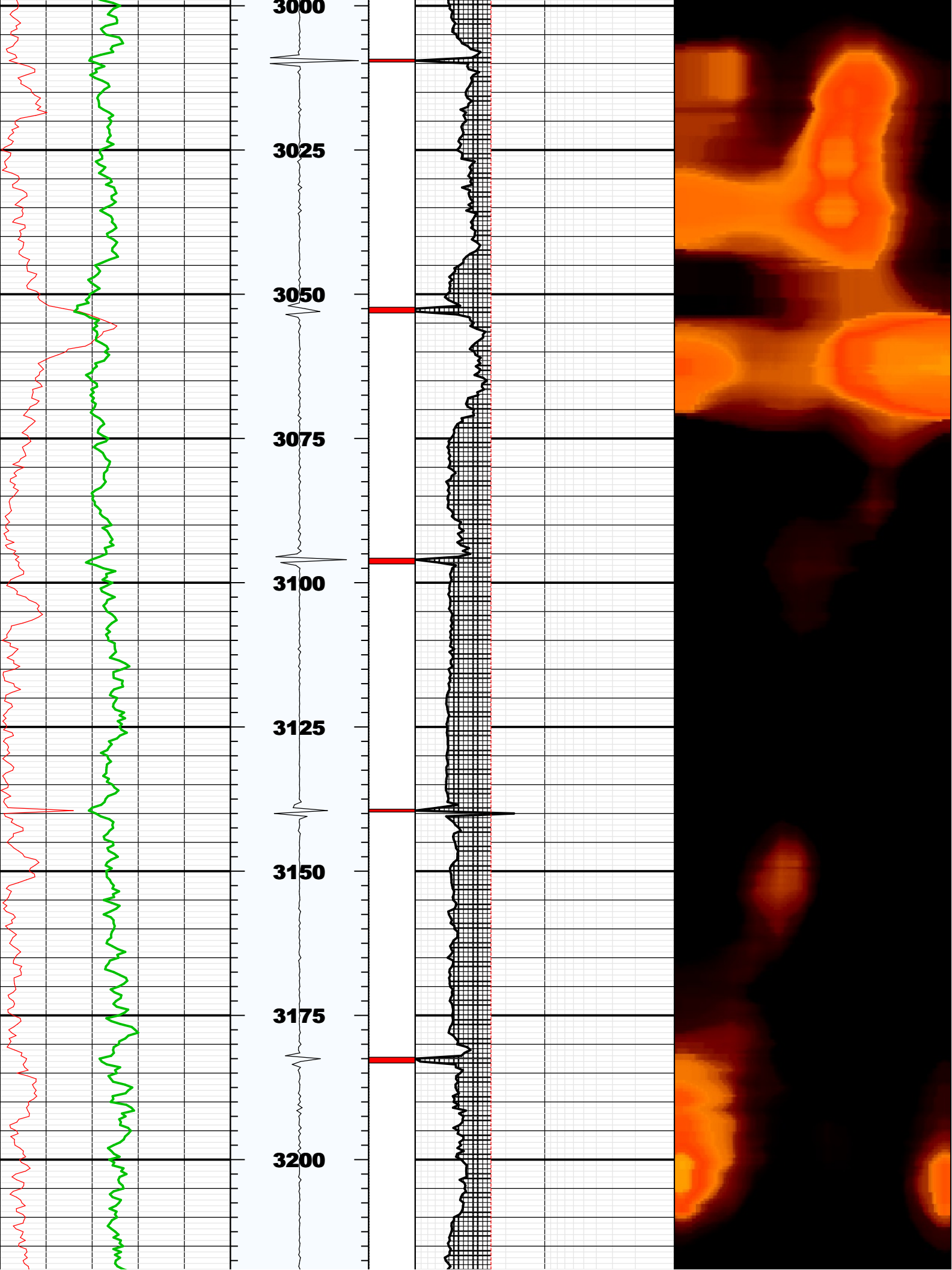


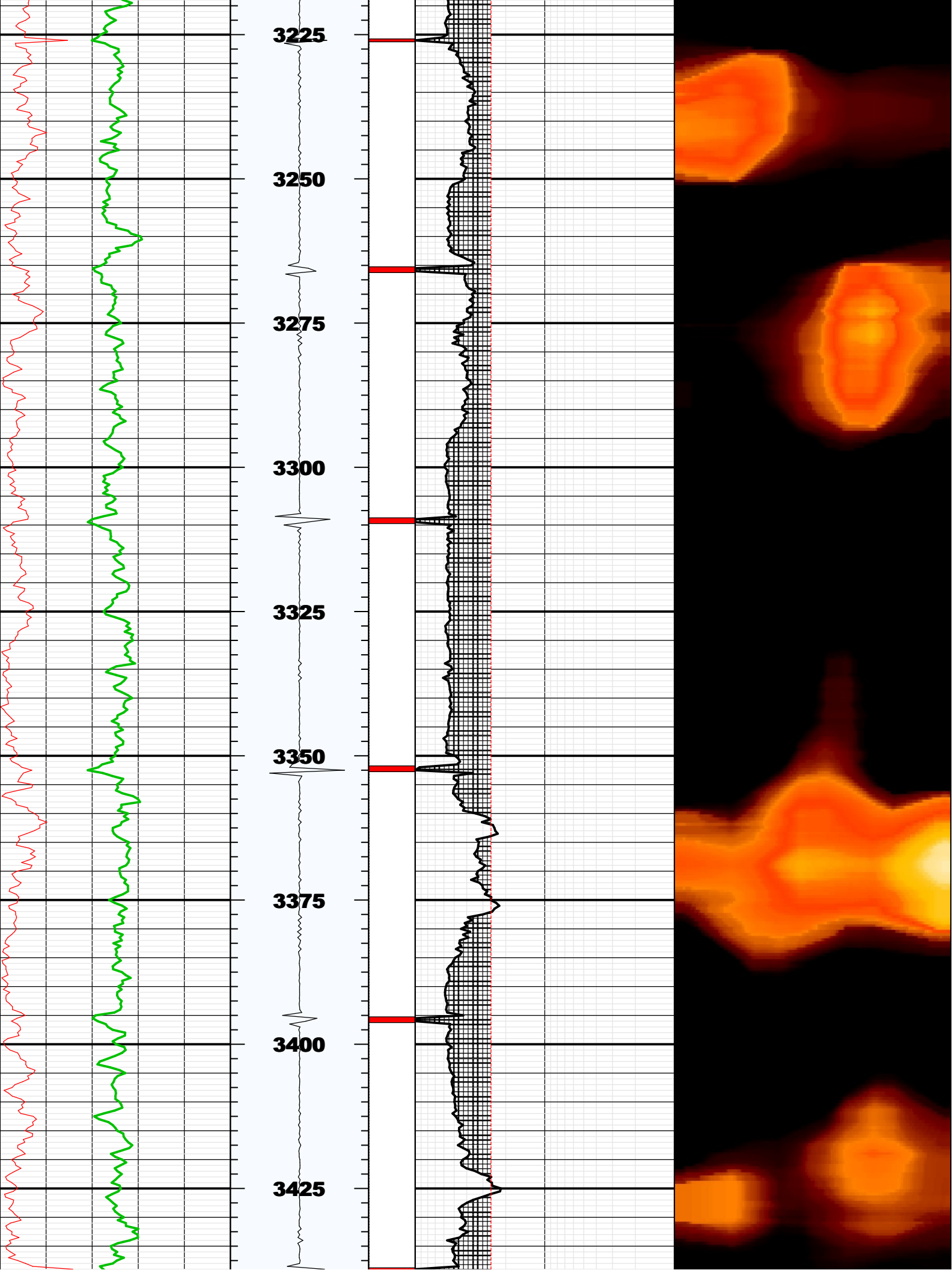


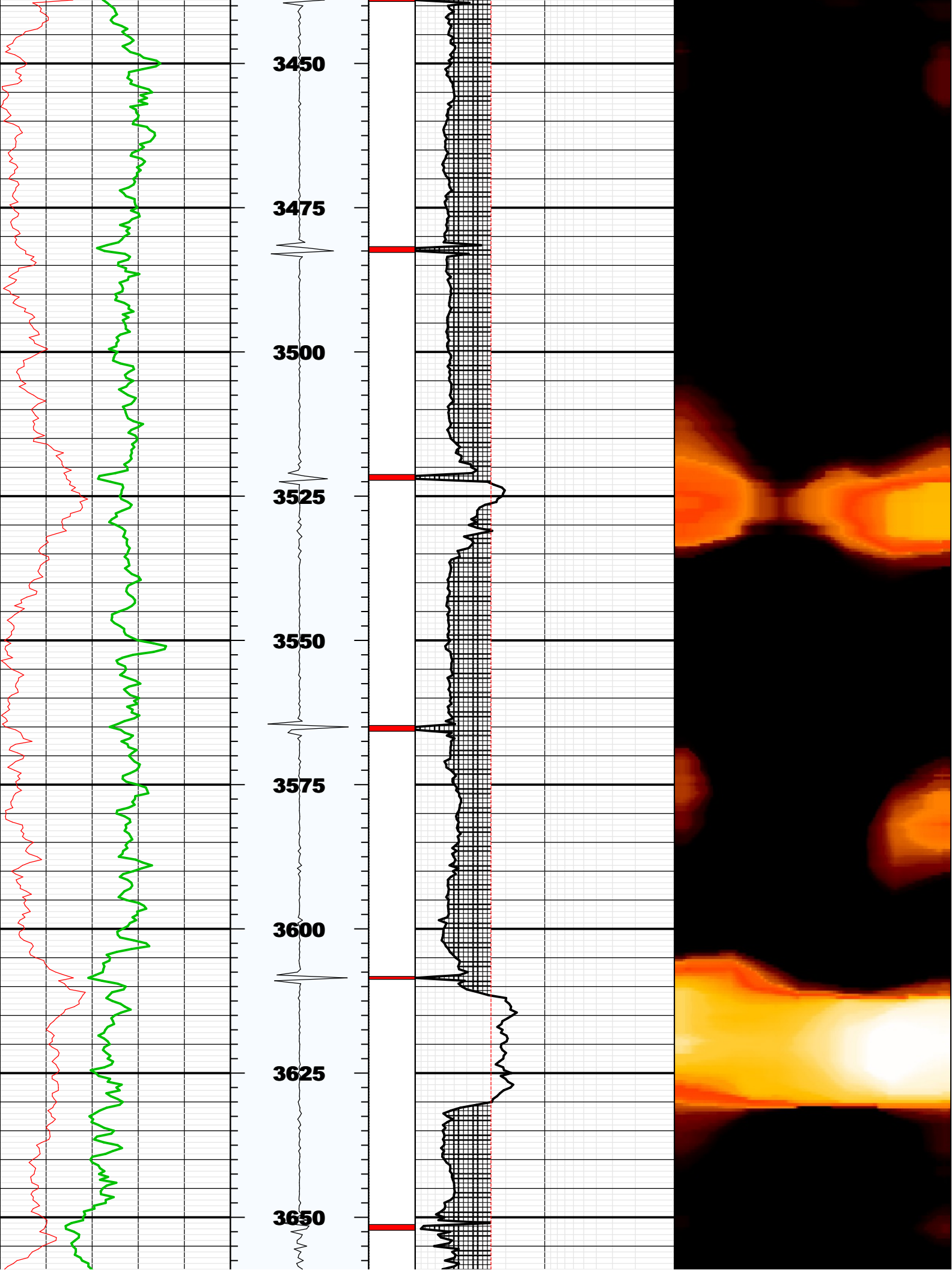


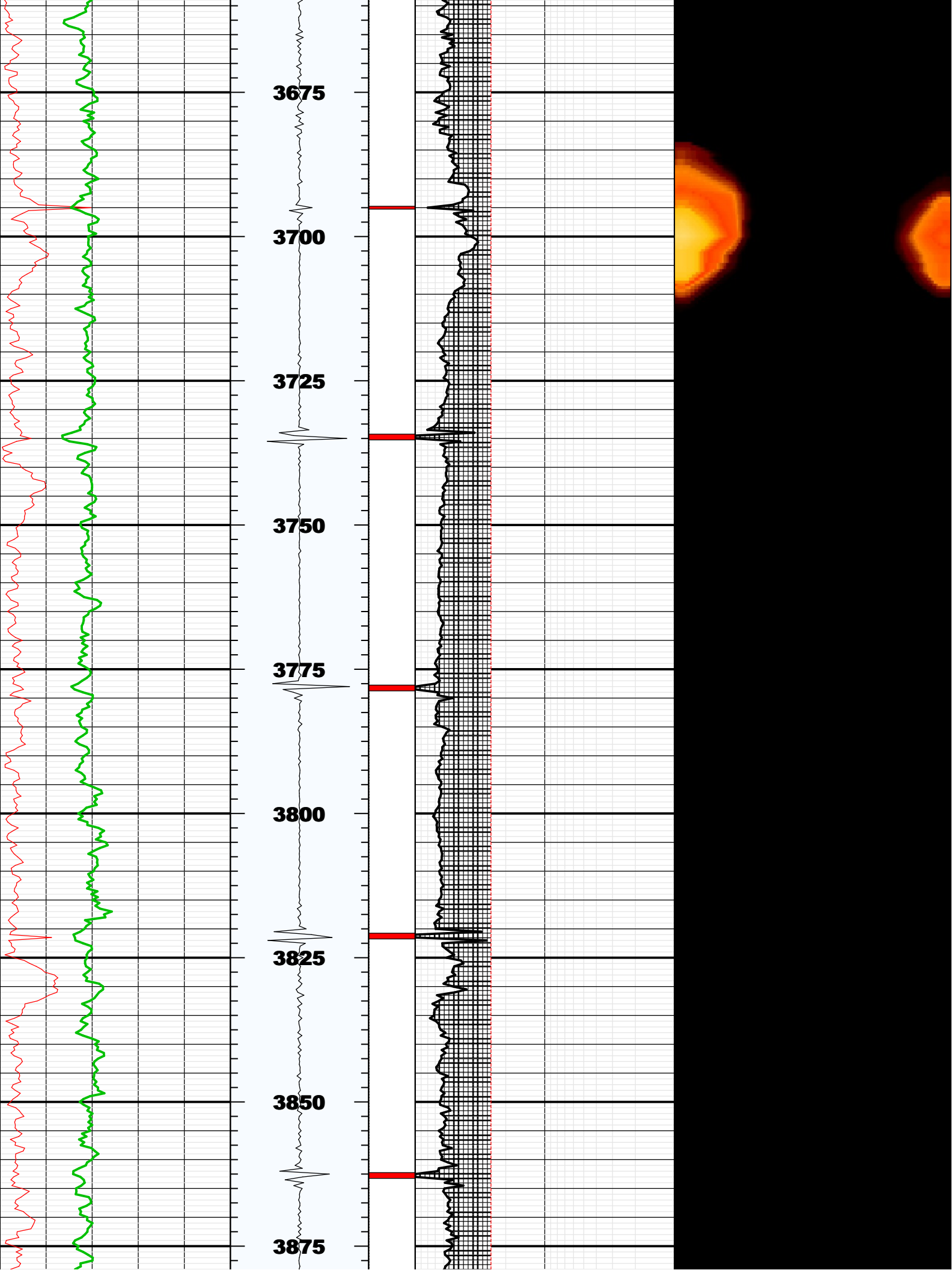


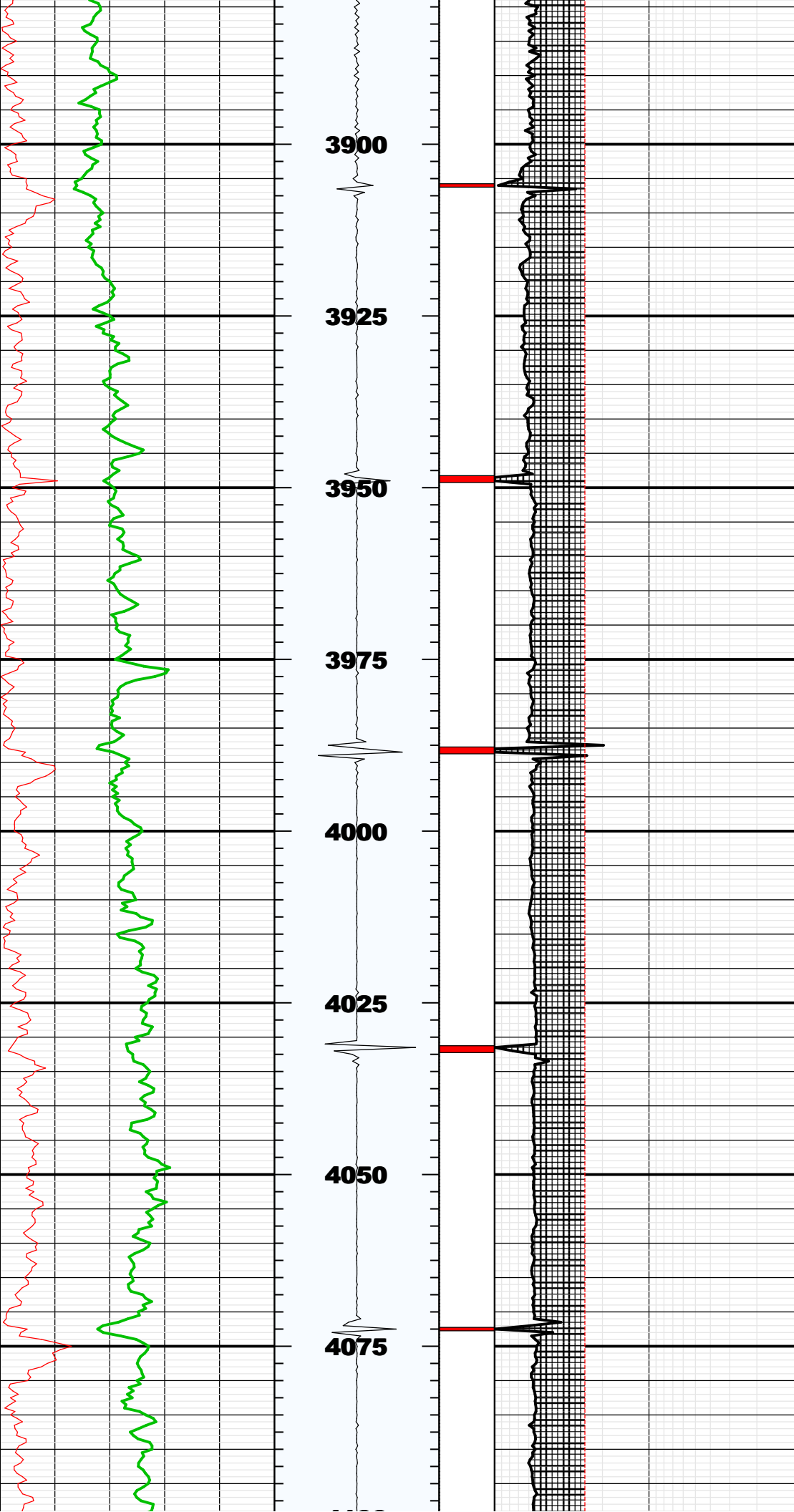


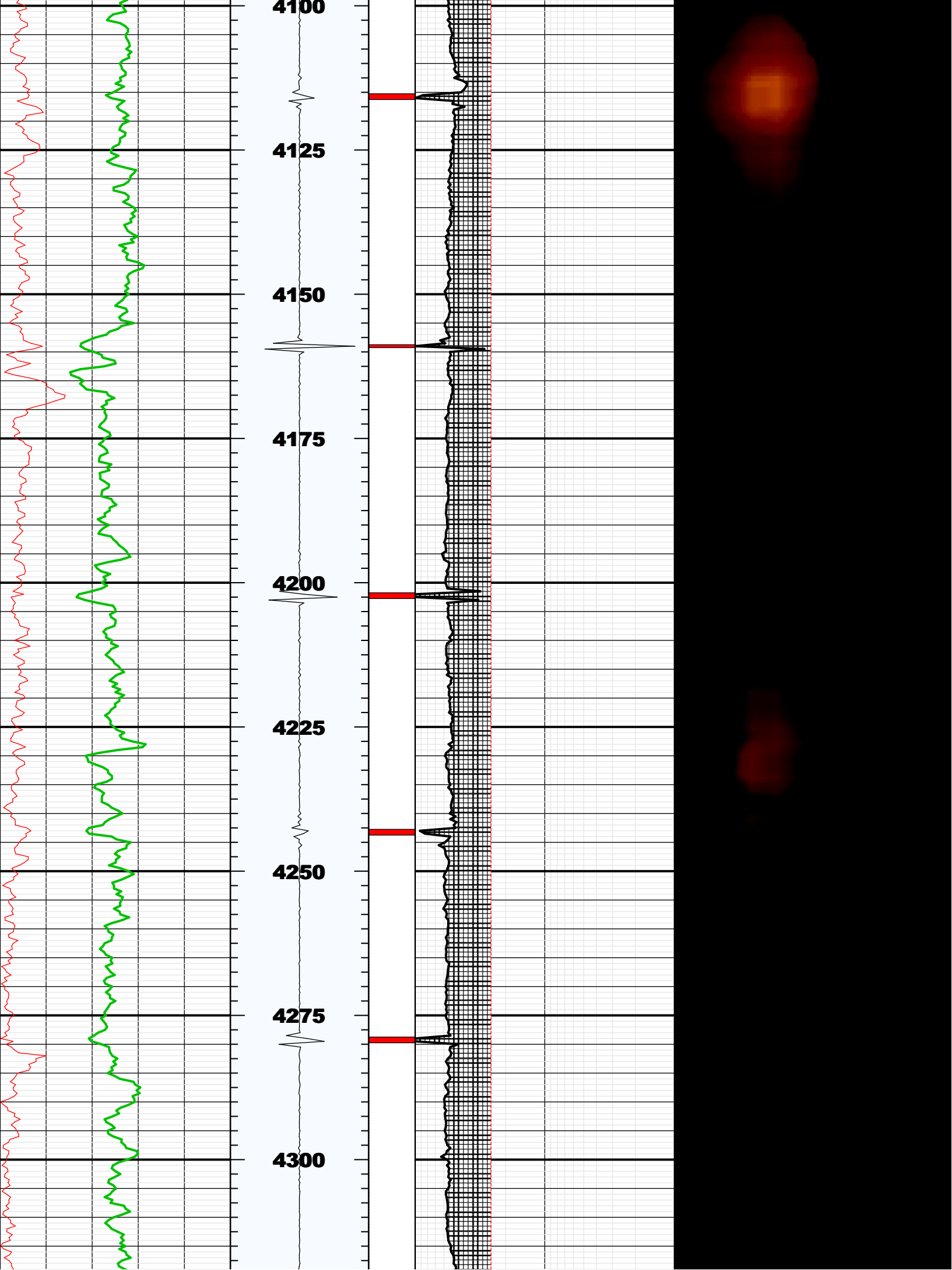


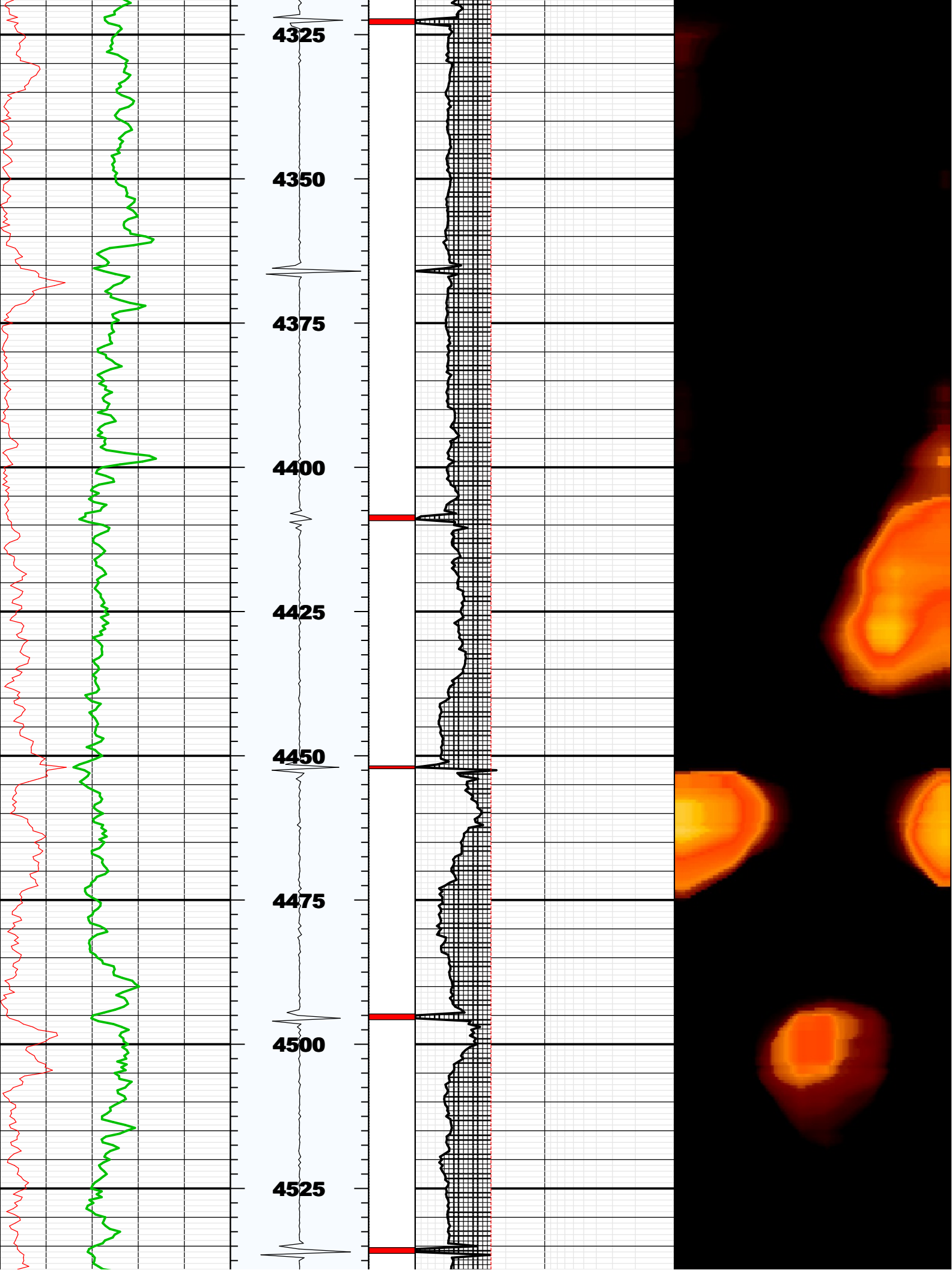


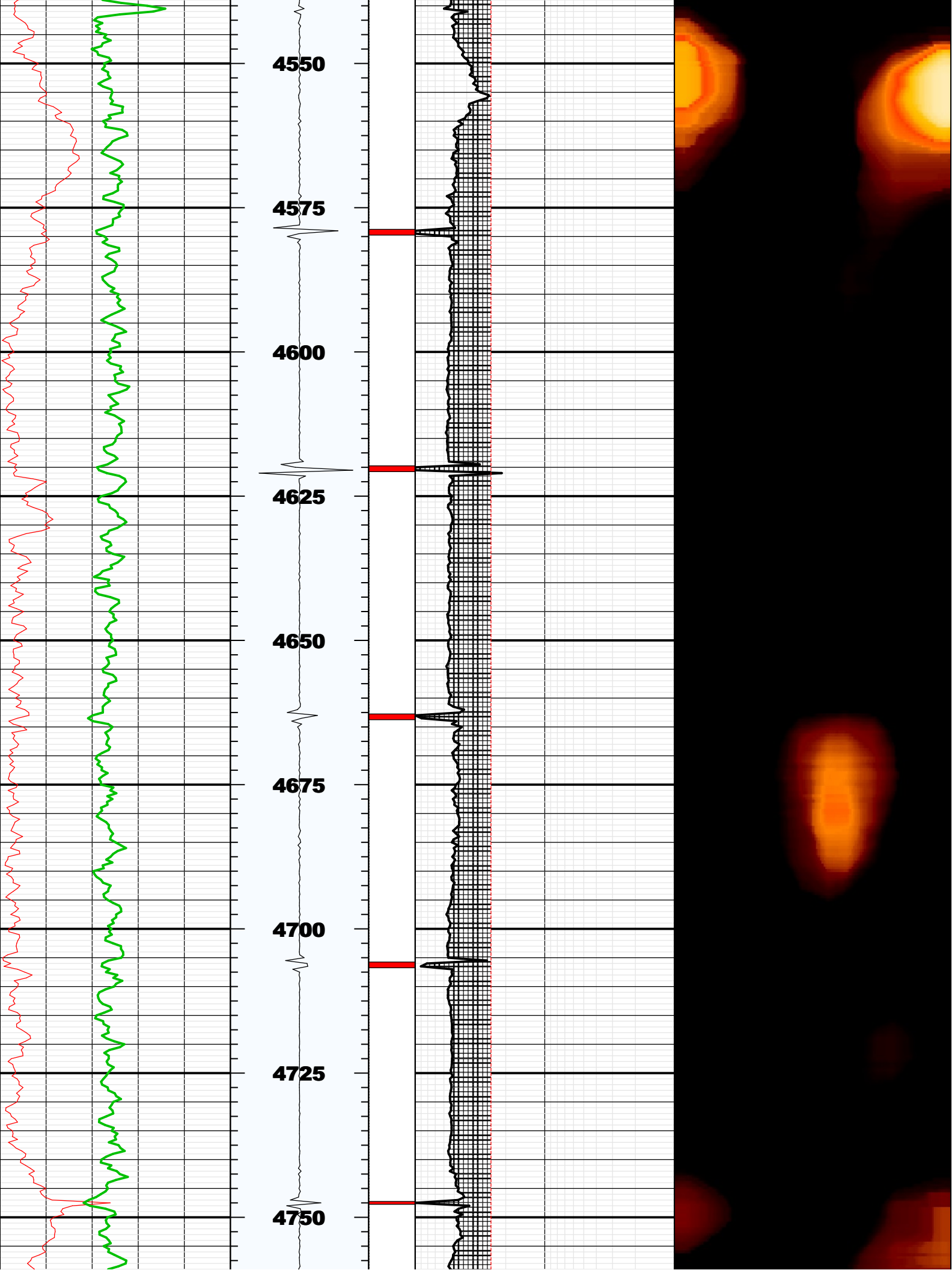


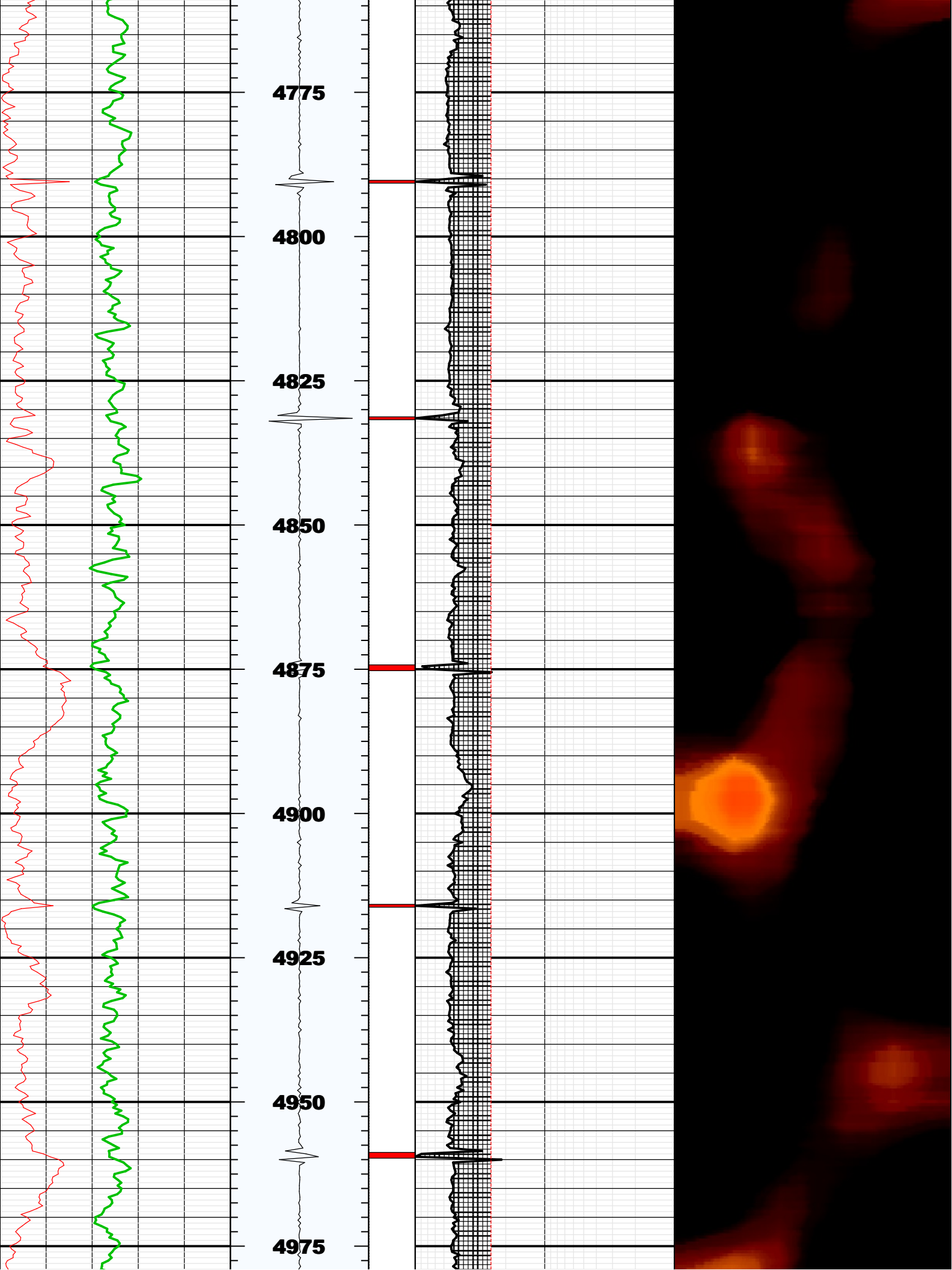


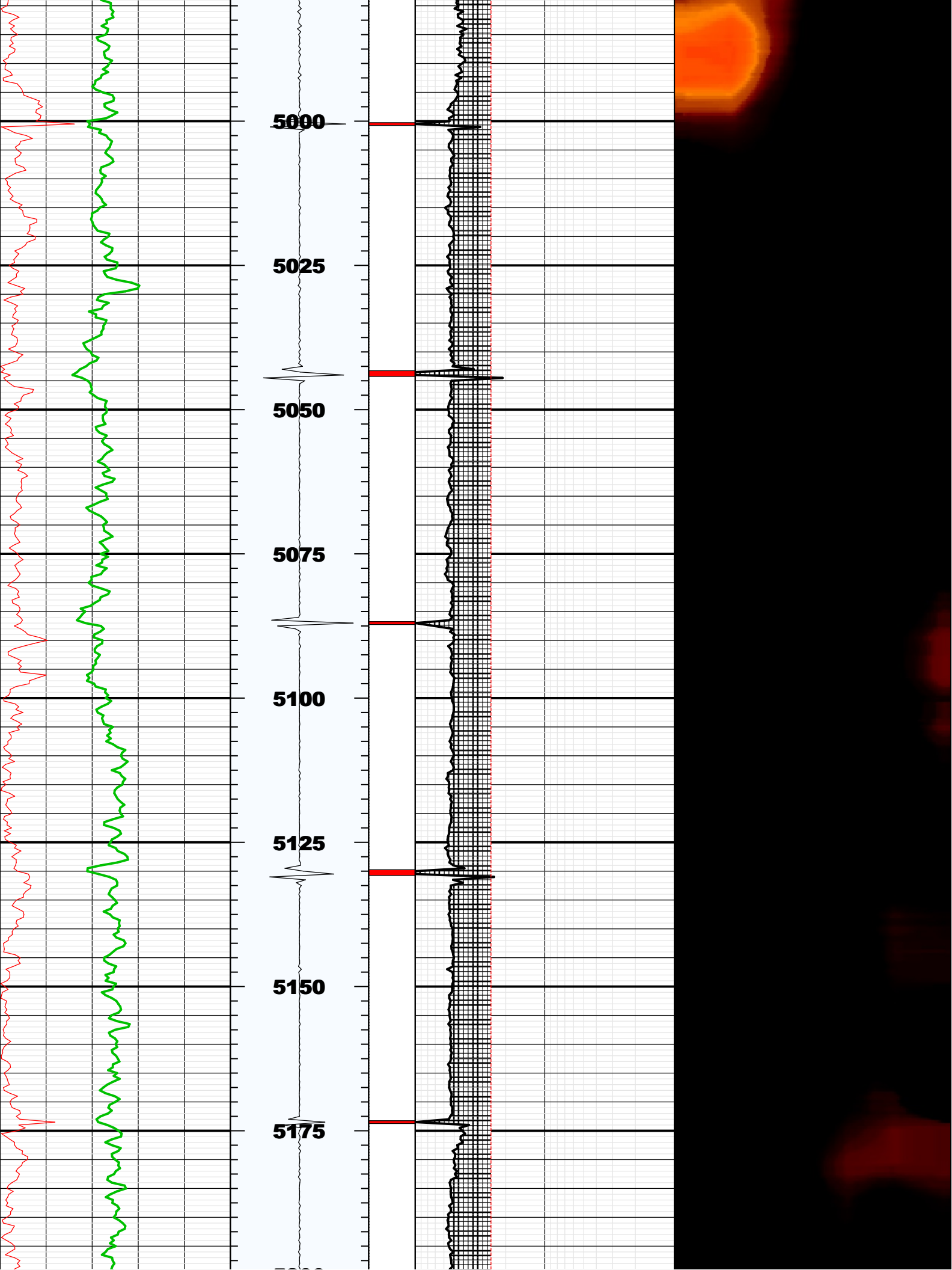


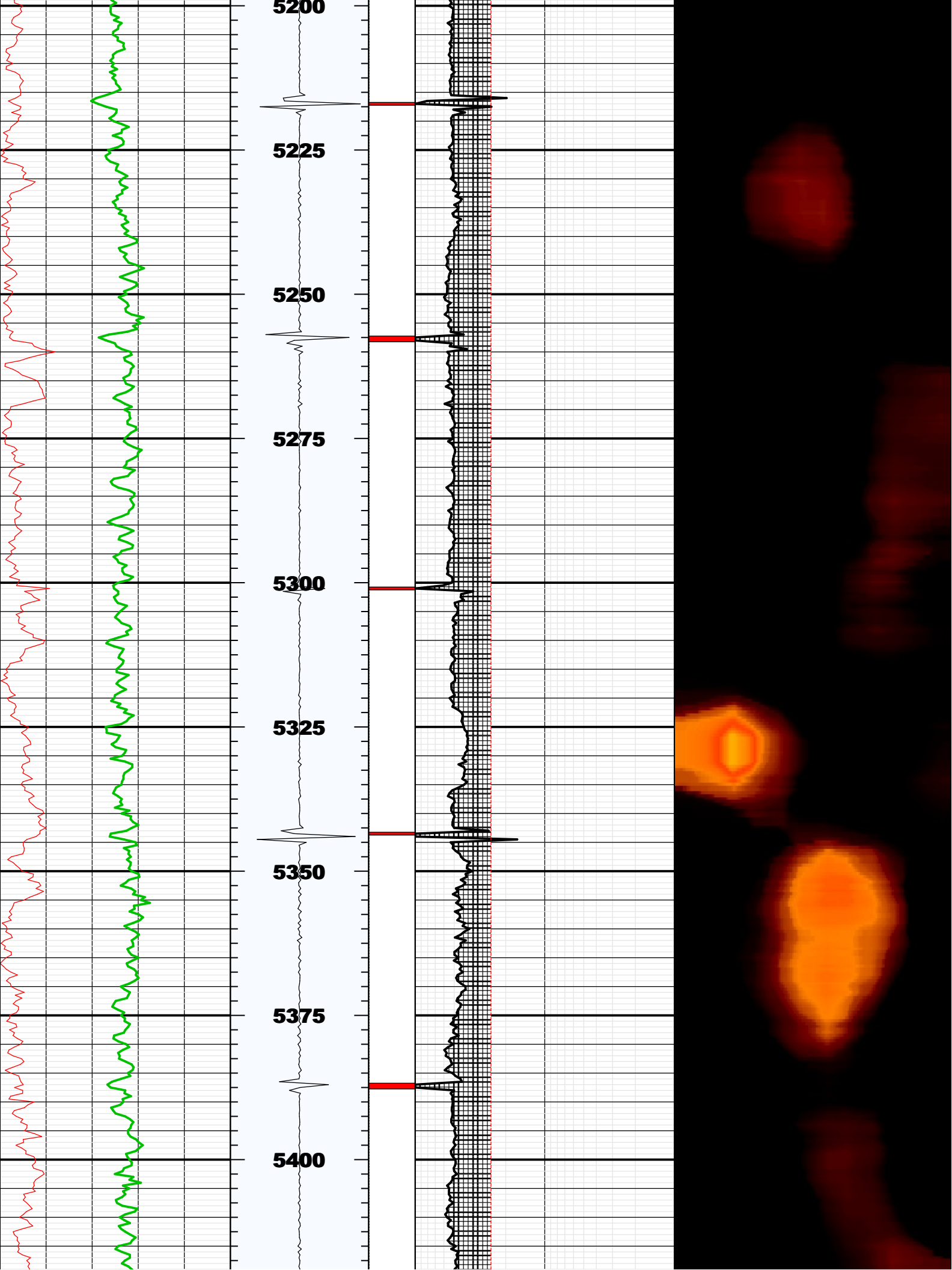


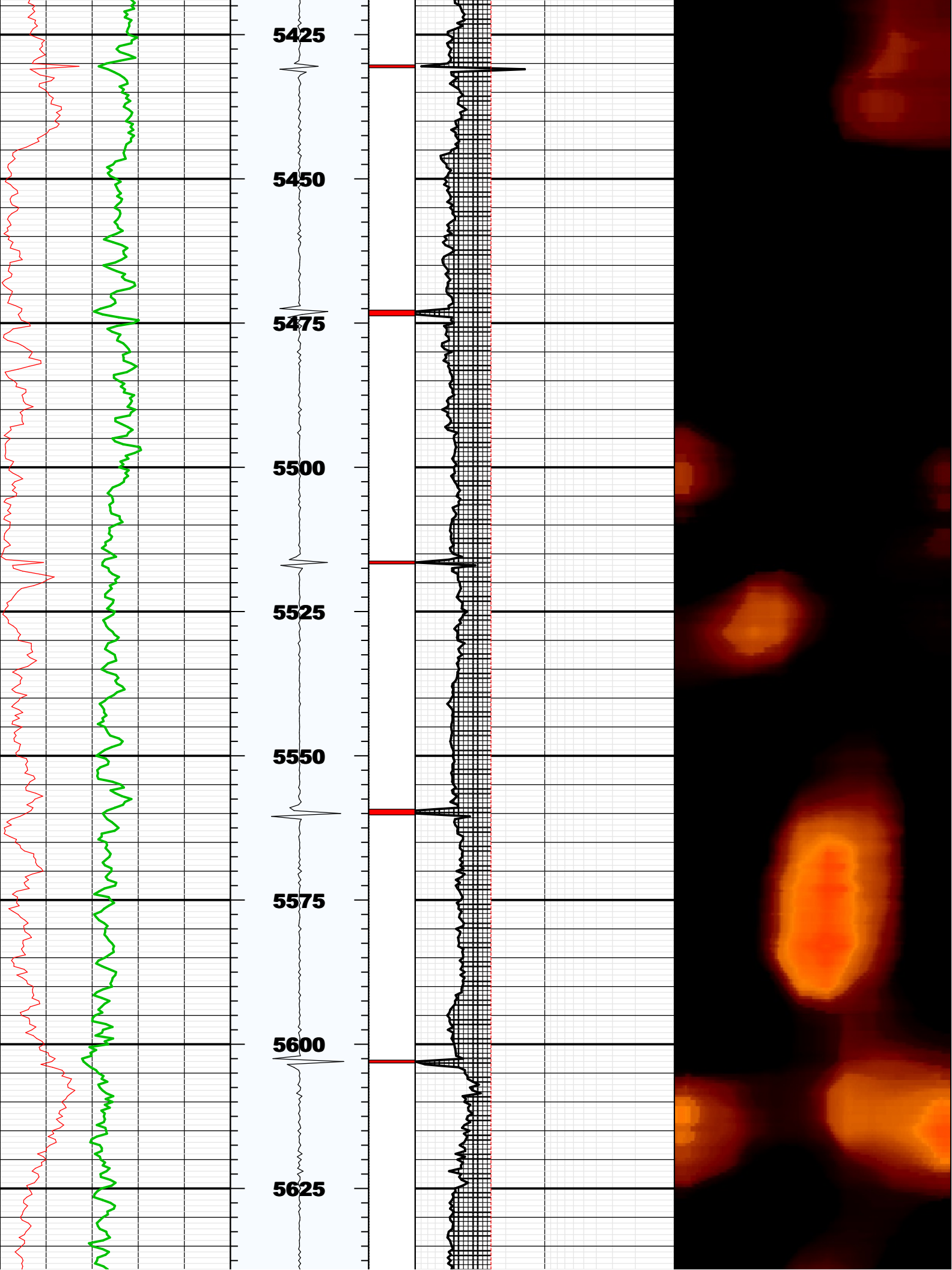


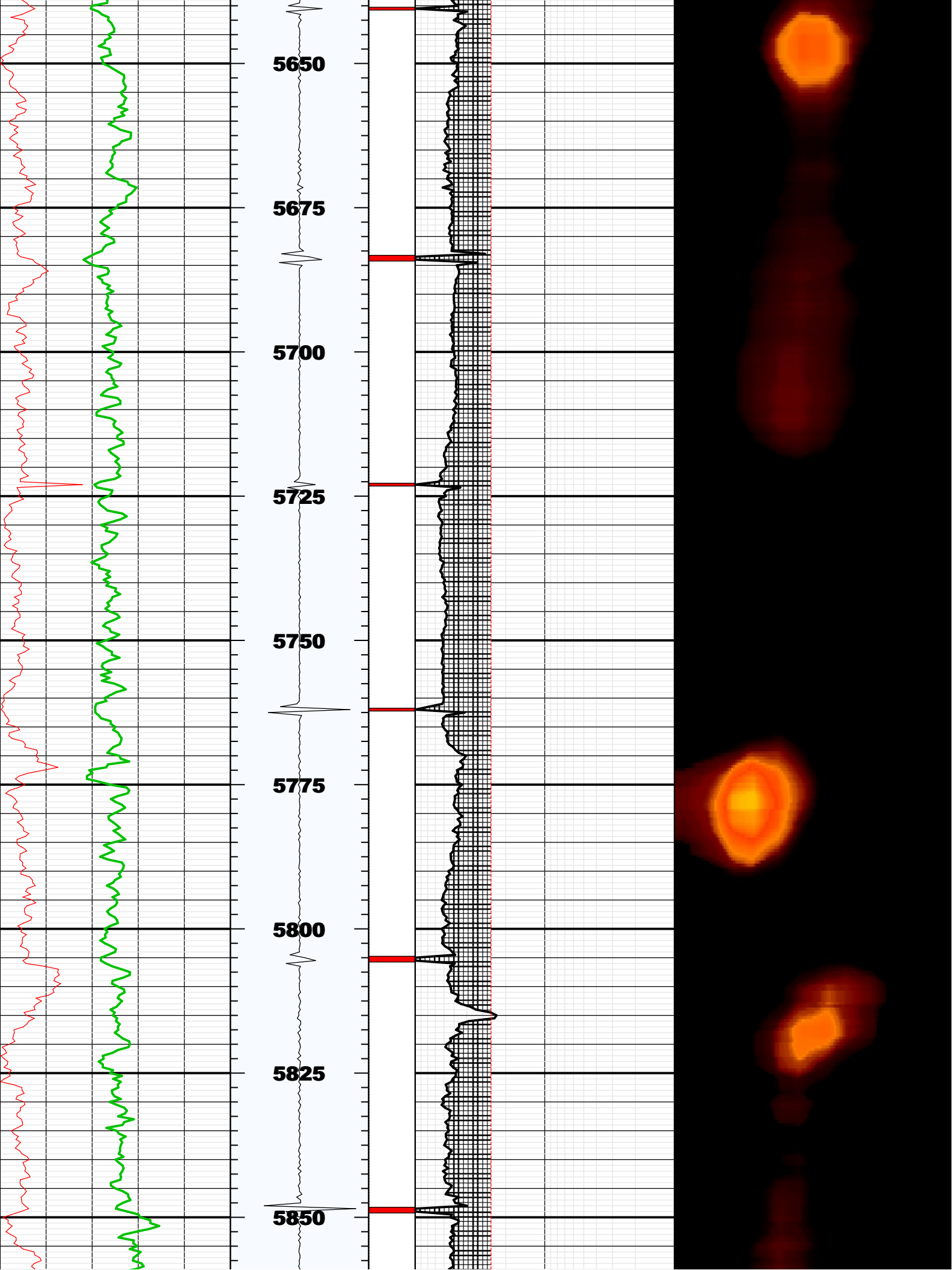


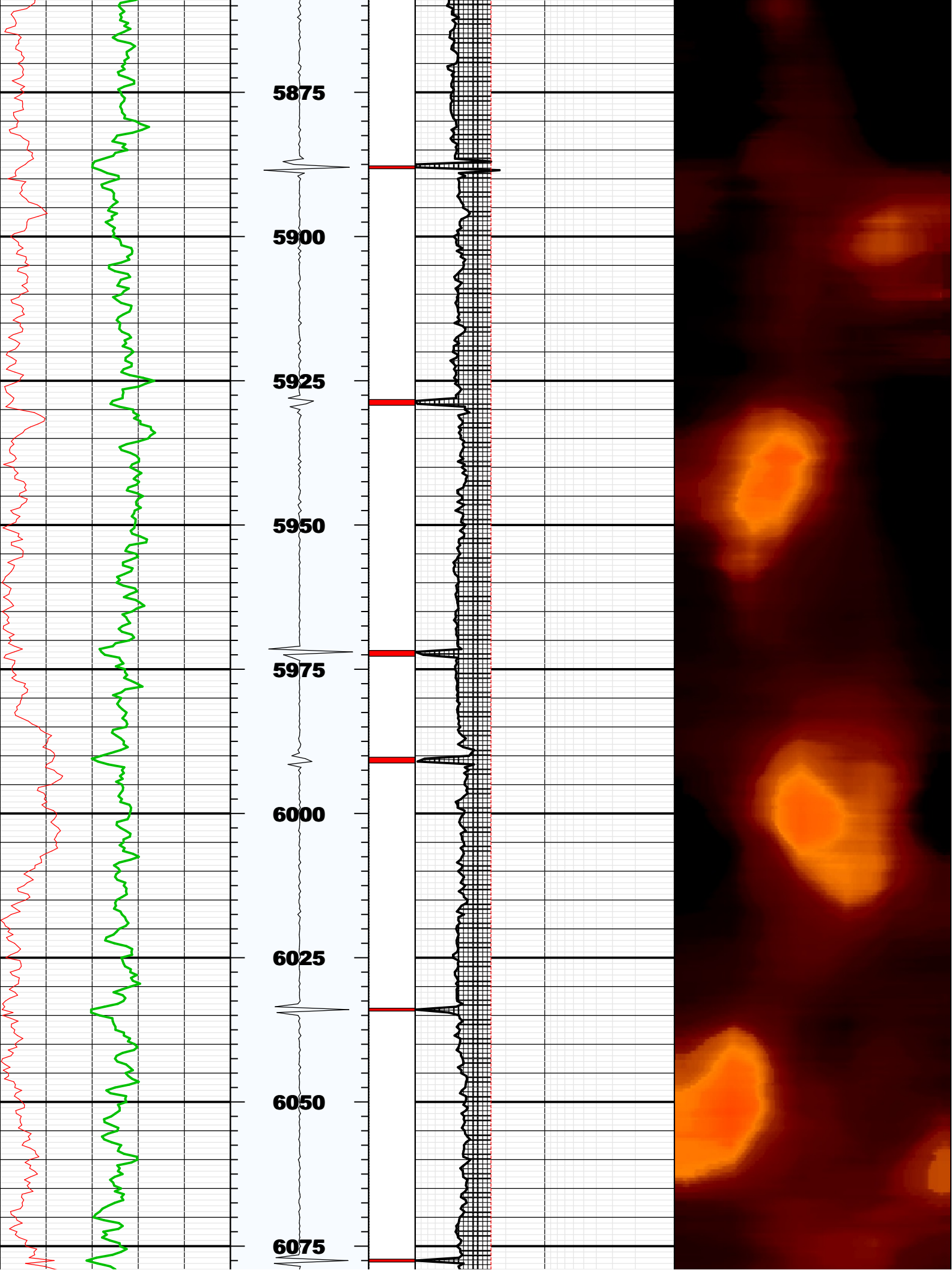


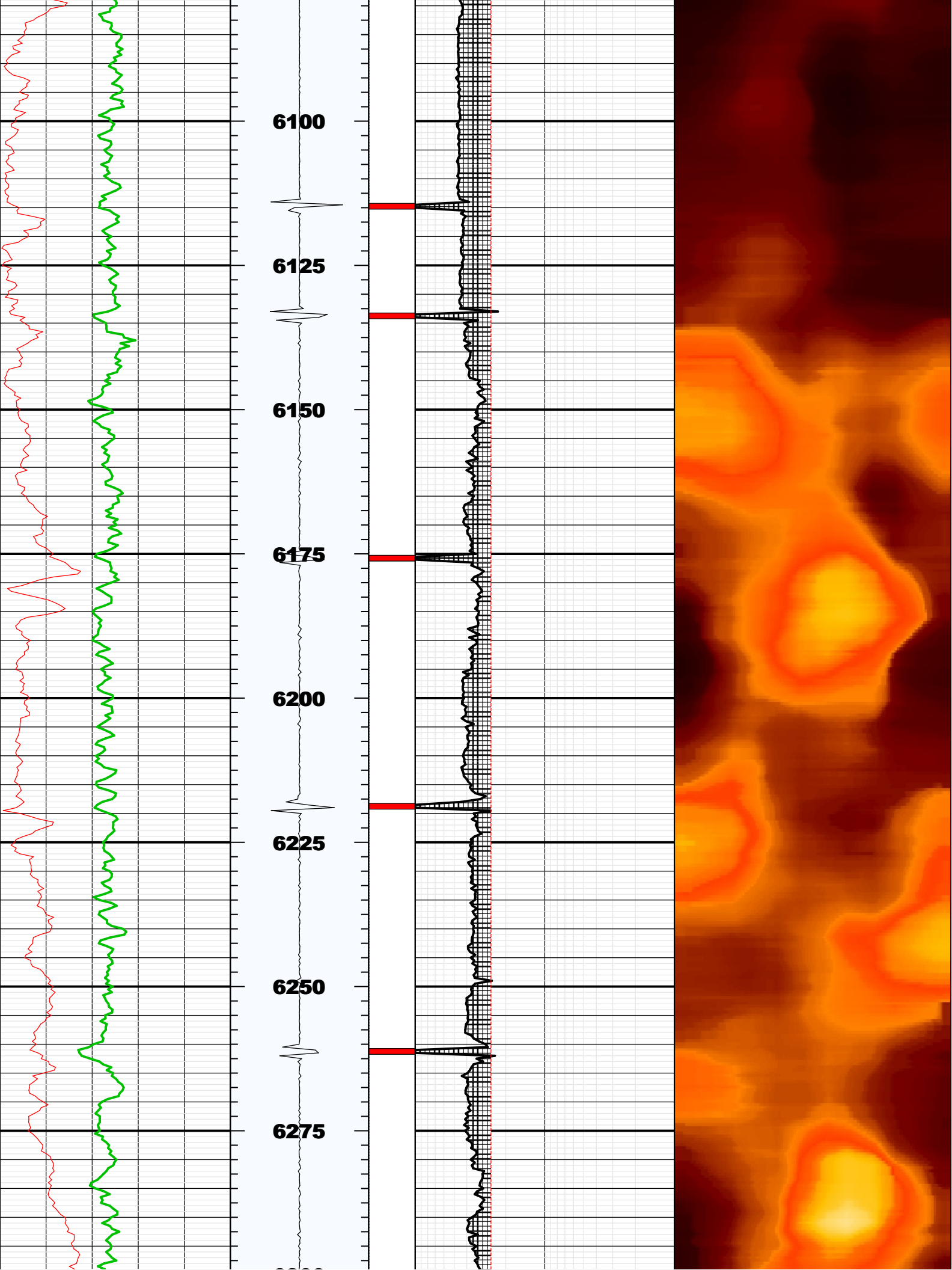


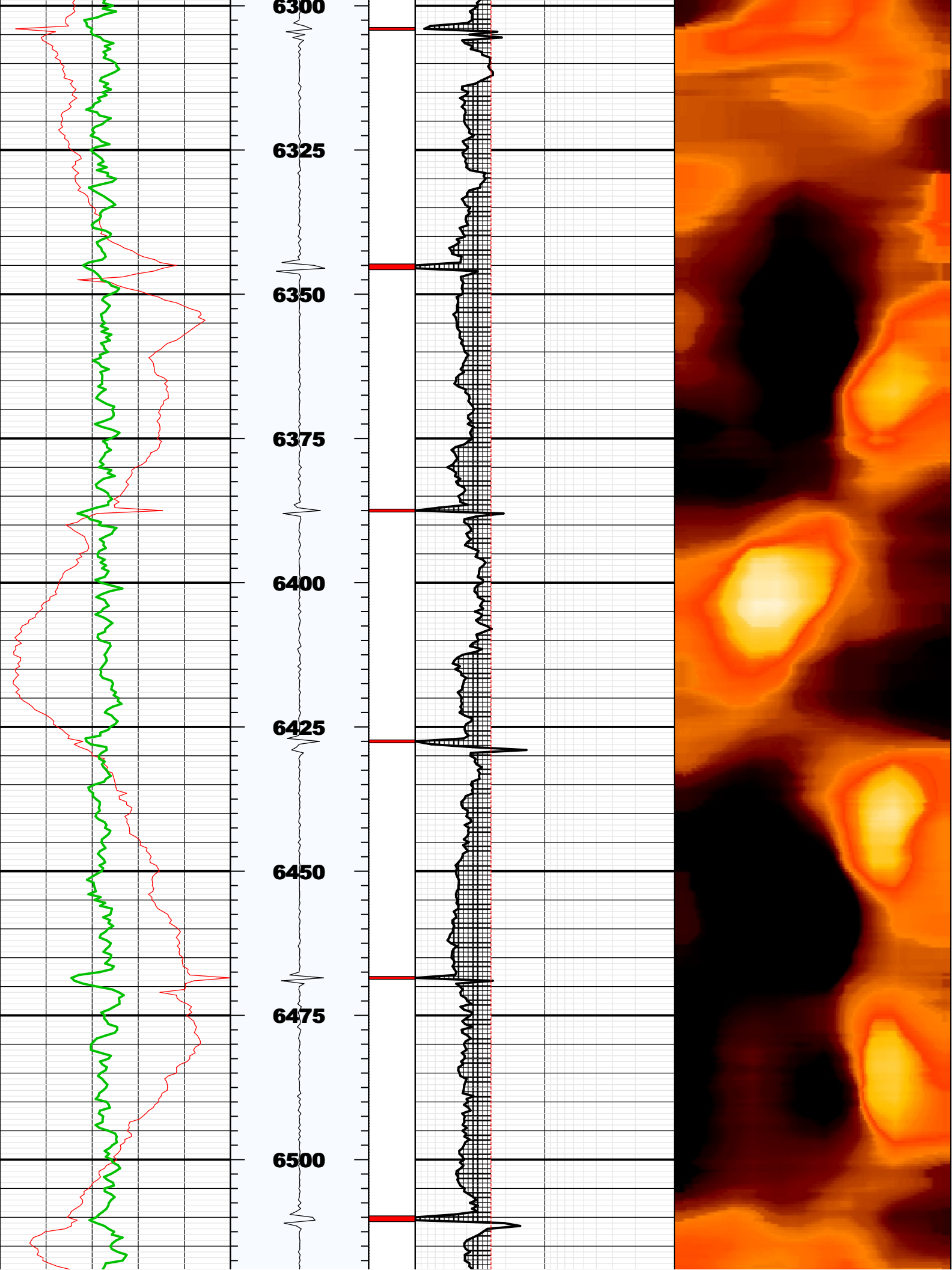


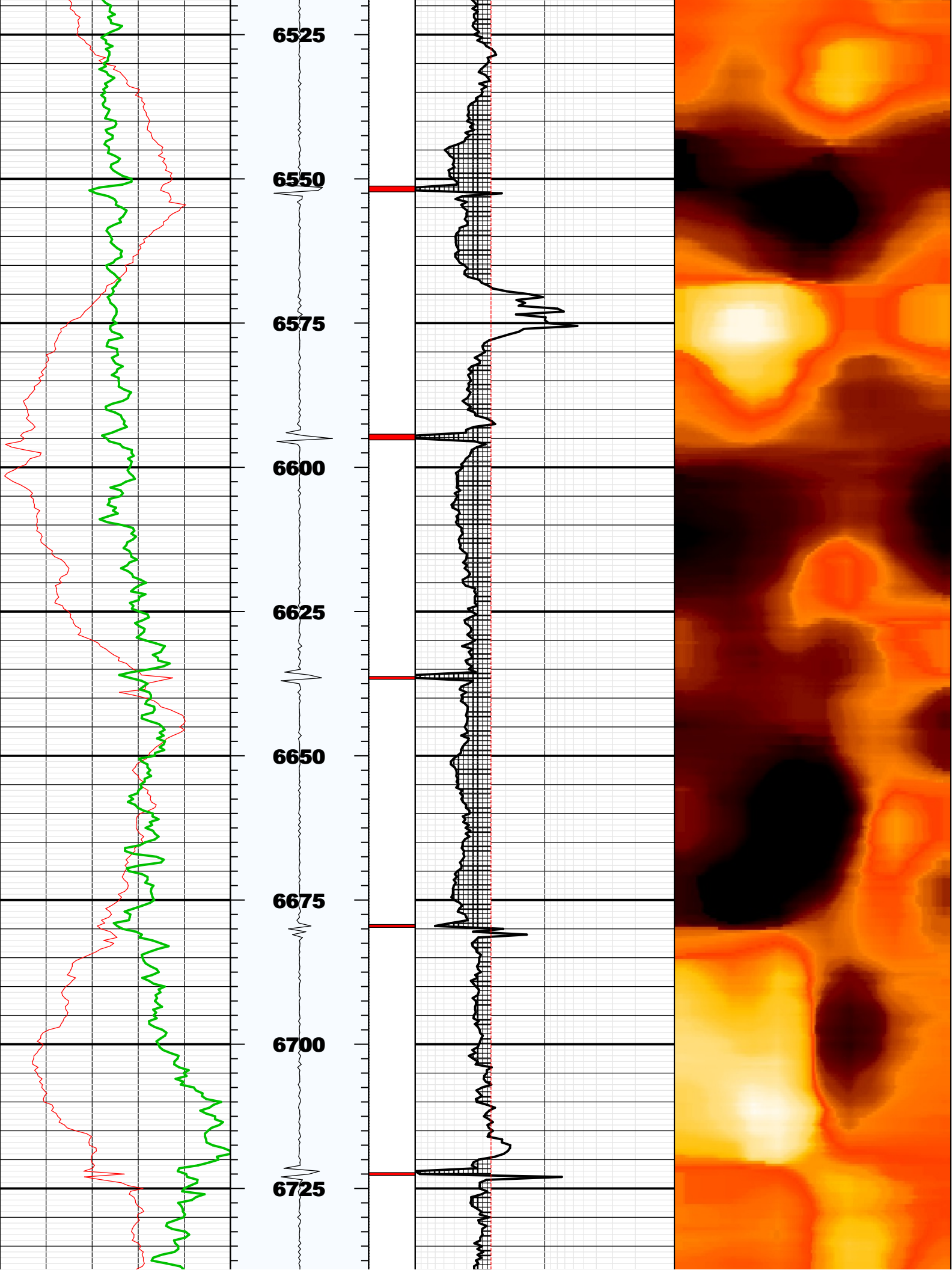


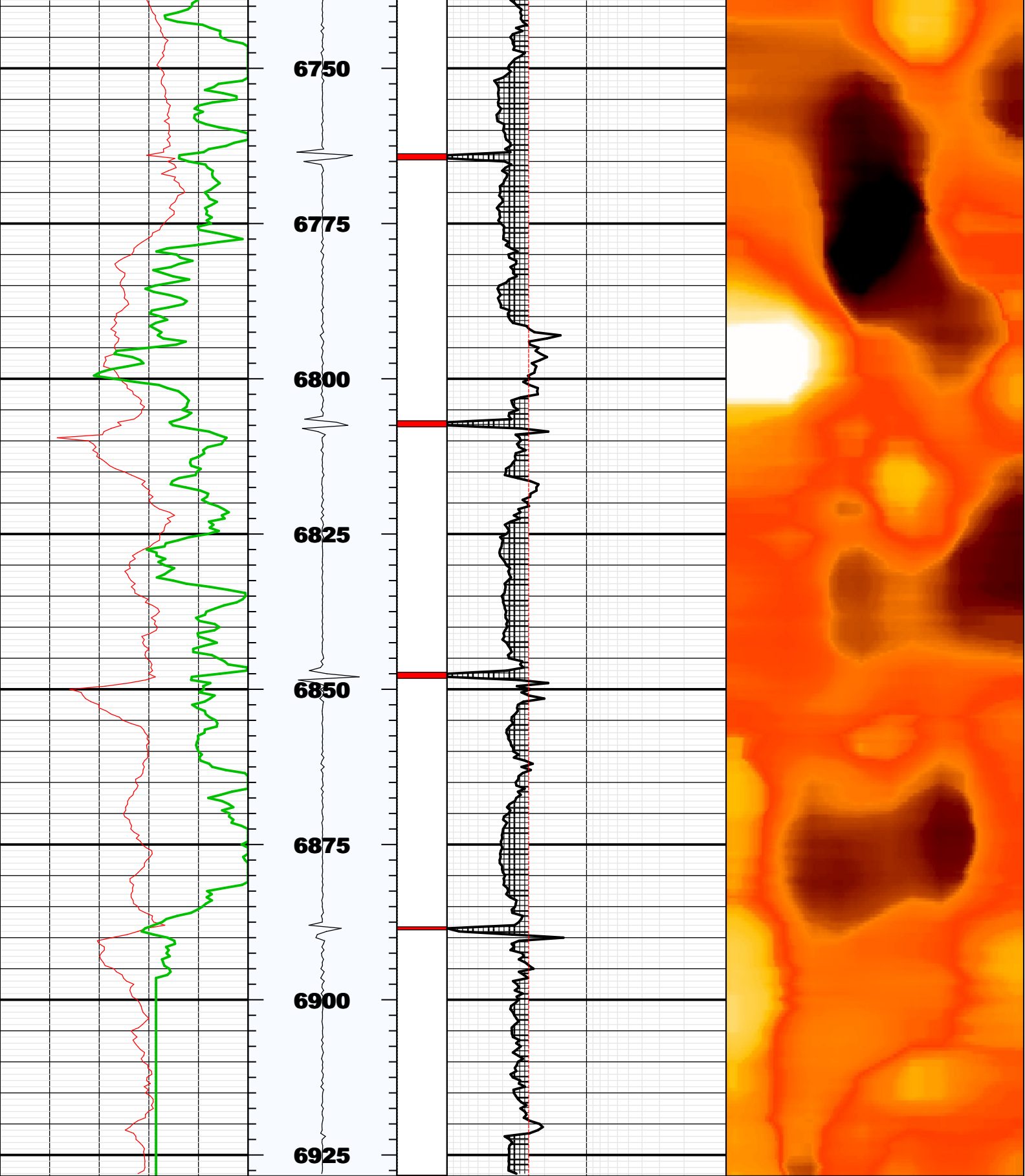








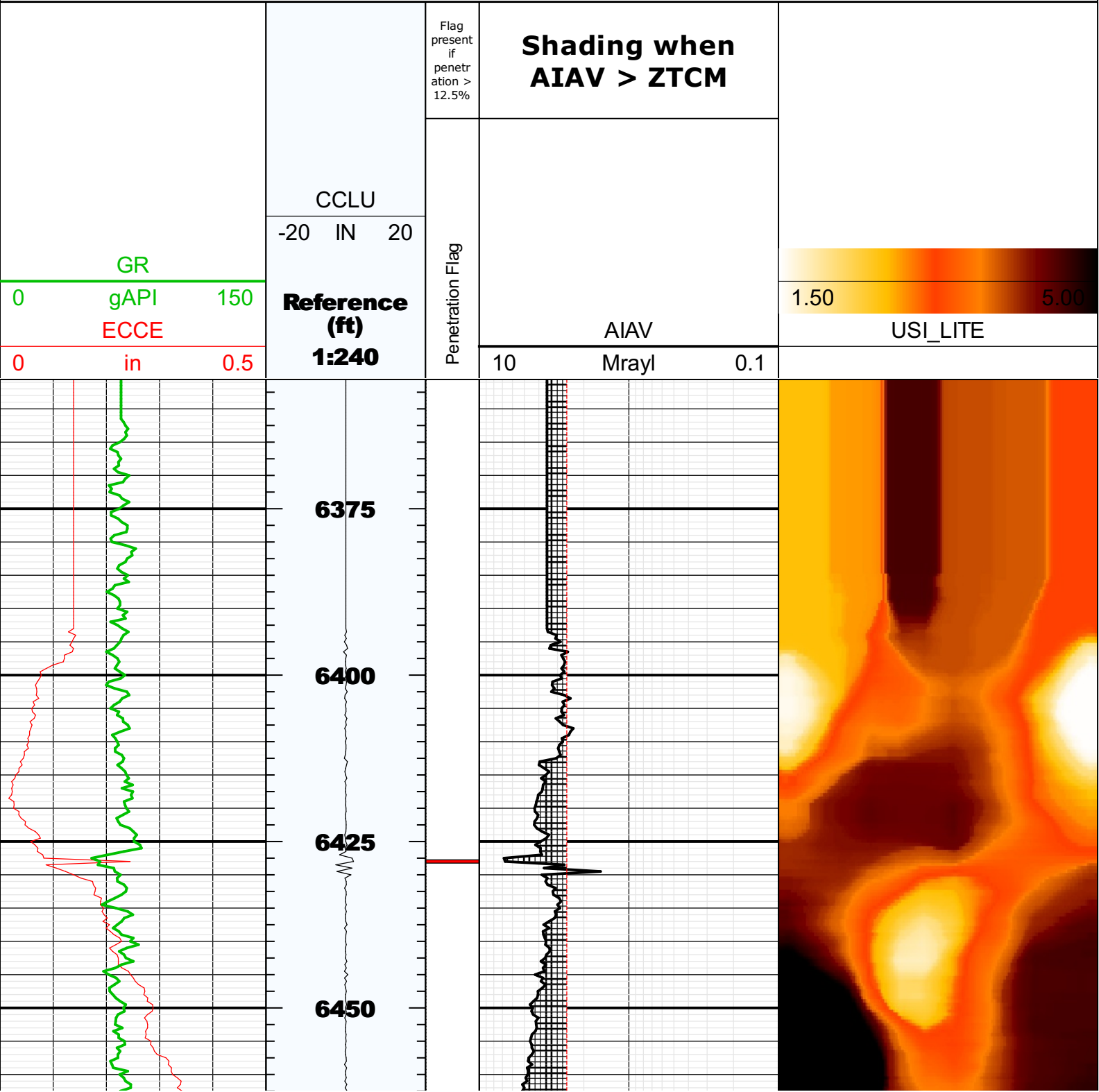


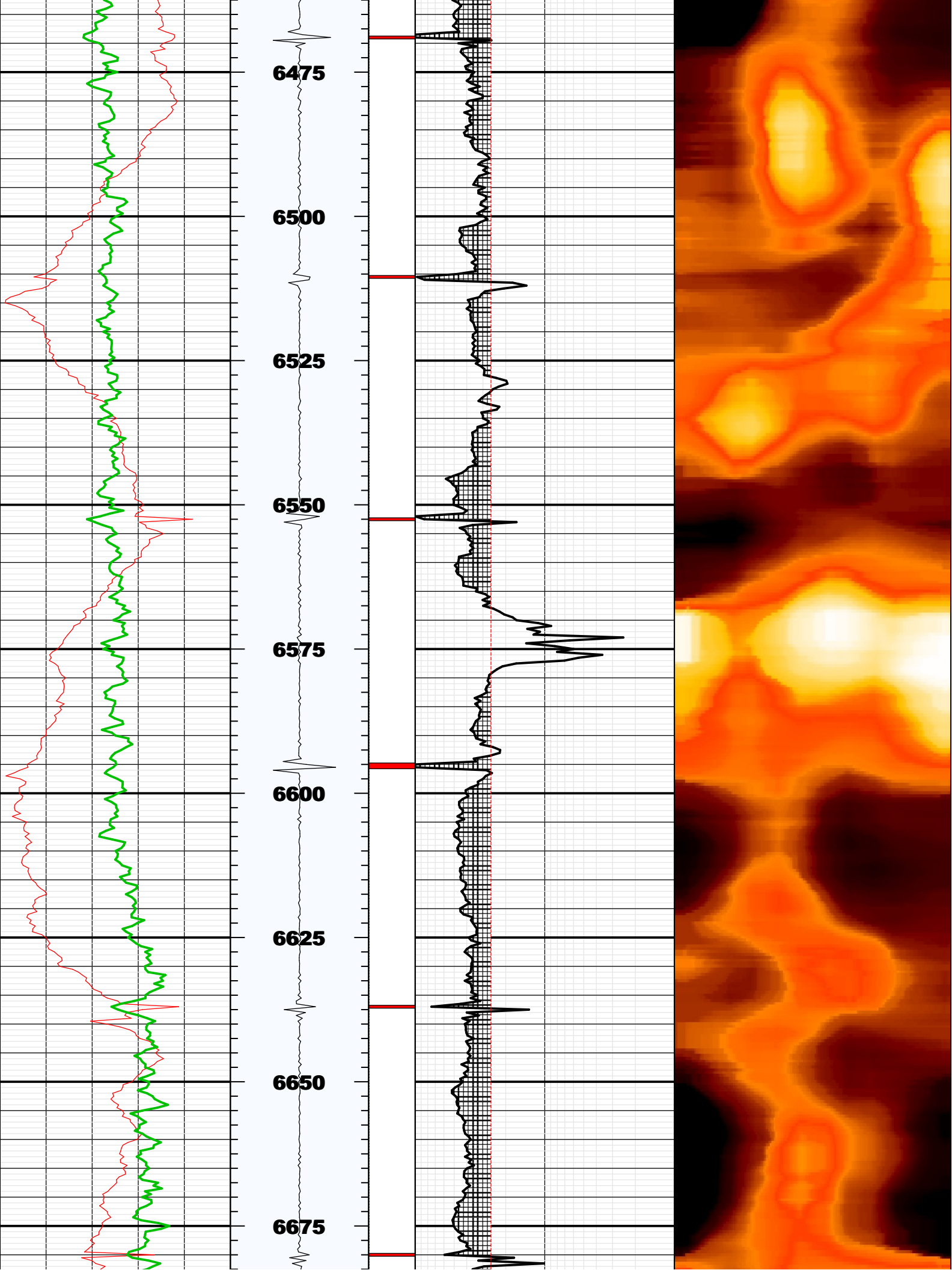


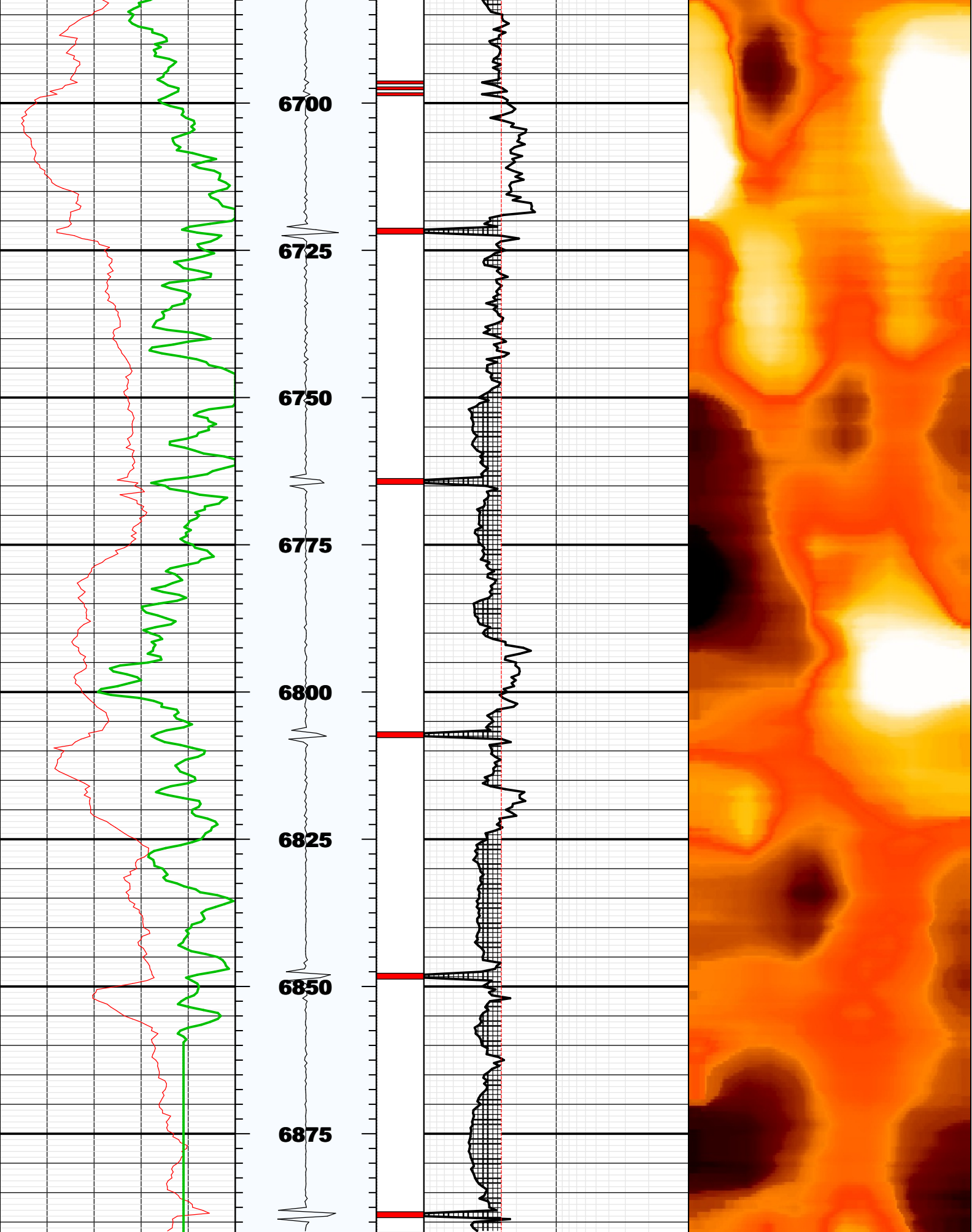
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID	6.27600	IN	Casing Inner Diameter
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.70000	LB/G	Drilling Fluid Density
DFVL	206.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	49	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	36.39582	US	Window Begin Time
WINE	86.19440	US	Window End Time
ZCAS	46.25000	MRAY	Acoustic Impedance of Casing
ZINI	-1.00000	MRAY	Initial Estimate of Cement Impedance
ZMUD	1.68000	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

Company: Noble Energy Inc
Well: Reliance E23-66-1HC
Field: Wattenberg







Fluid Properties Used for Main Pass

