

Company: Noble Energy Inc

Well: Greyson #LD28-780

Field: Wattenberg

County: Weld State: Colorado

County: Weld		<b>USI-LITE</b>				
Field: Wattenberg						
Location: SESW Sec 28 T9N R58W						
Well: Greyson #LD28-780						
Company: Noble Energy Inc						
LOCATION		Permanent Datum: Log Measured From: Drilling Measured From:	GL KB KB	Elev: K.B. 4879.0 F G.L. 4855.0 F D.F. 4879.0 F		
API Serial No. 05-123-41584	Section 28				Township 9N	Range 58W
Logging Date 10-Sep-2015	Run Number ONE					
Depth Driller 11544.0 F	Schlumberger Depth 11544.0 F					
Bottom Log Interval 6090.0 F	Top Log Interval -999.2 F					
Casing Fluid Level 0.0 F	Salinity					
Density 8.40 LB/G	Fluid Level 0.0 F					
BIT/CASING/TUBING STRING	Bit Size 8.500 IN					
From -999.2 F	To 11544.0 F					
Casing Size 7.00 IN	Weight 26.00 LB/F					
Grade N/A	From 0.0 F					
To 6236.0 F	Max Recorded Temp 217.0					
Logger on bottom (date) 10-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

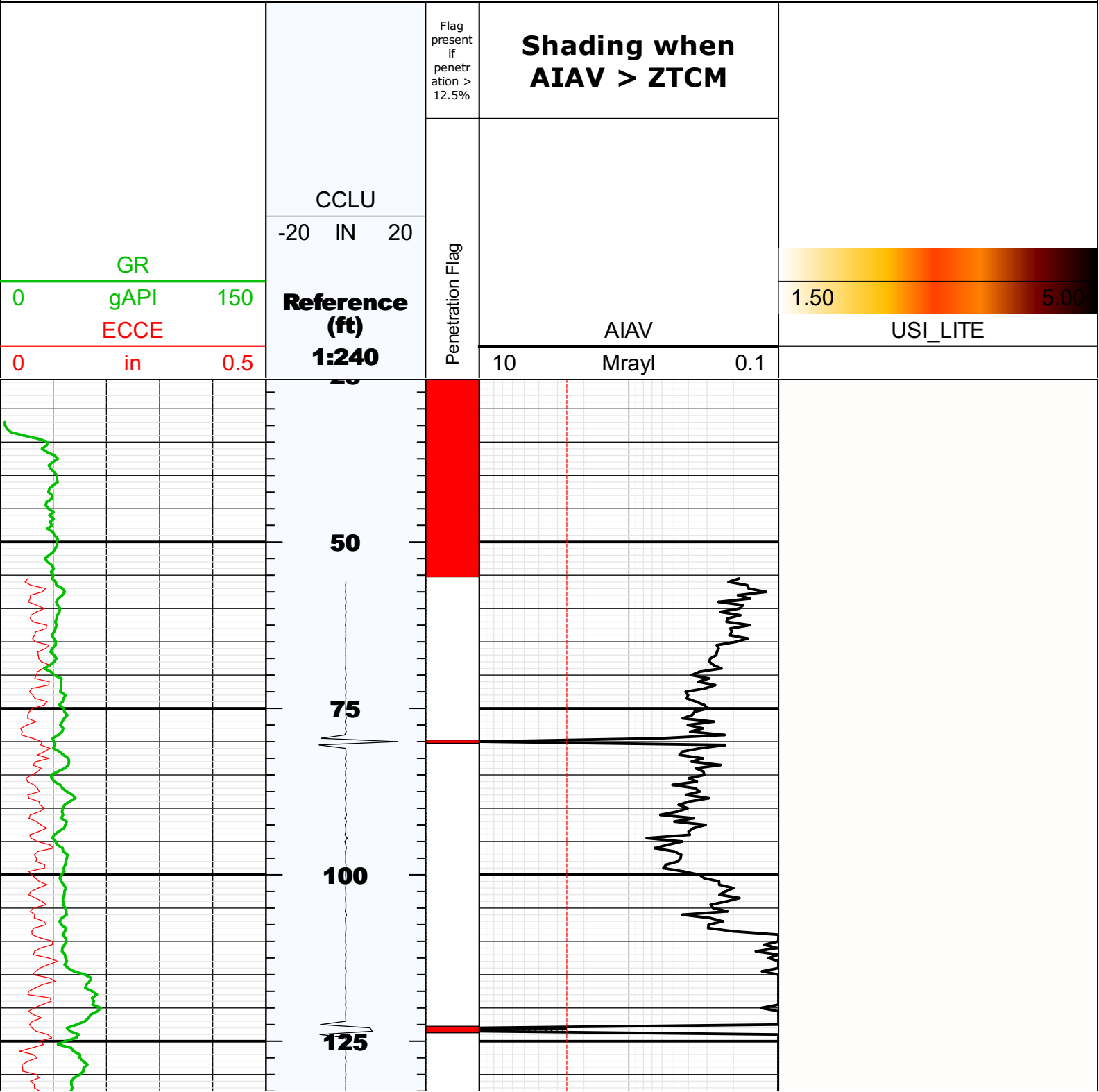
DISCLAIMER

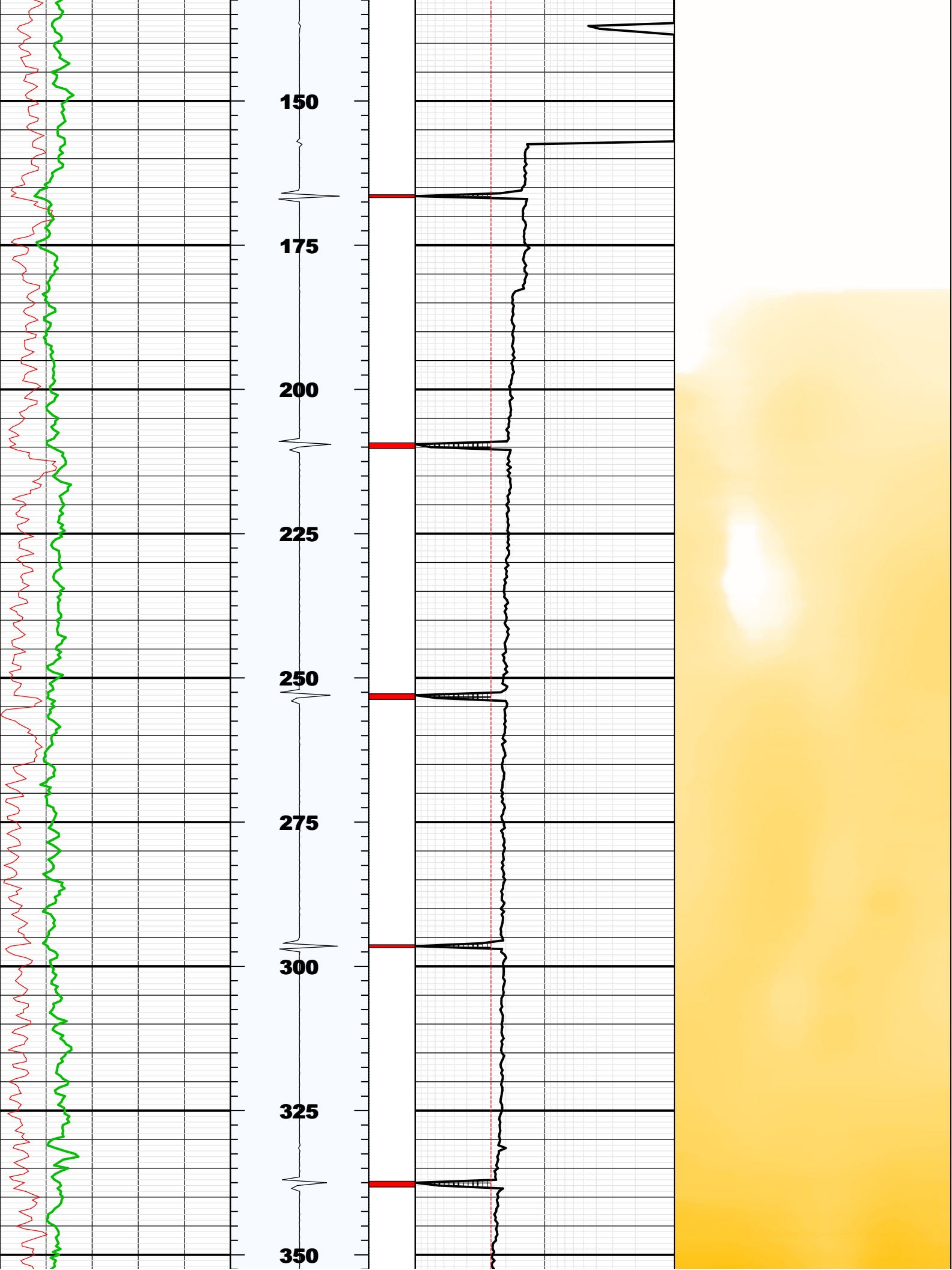
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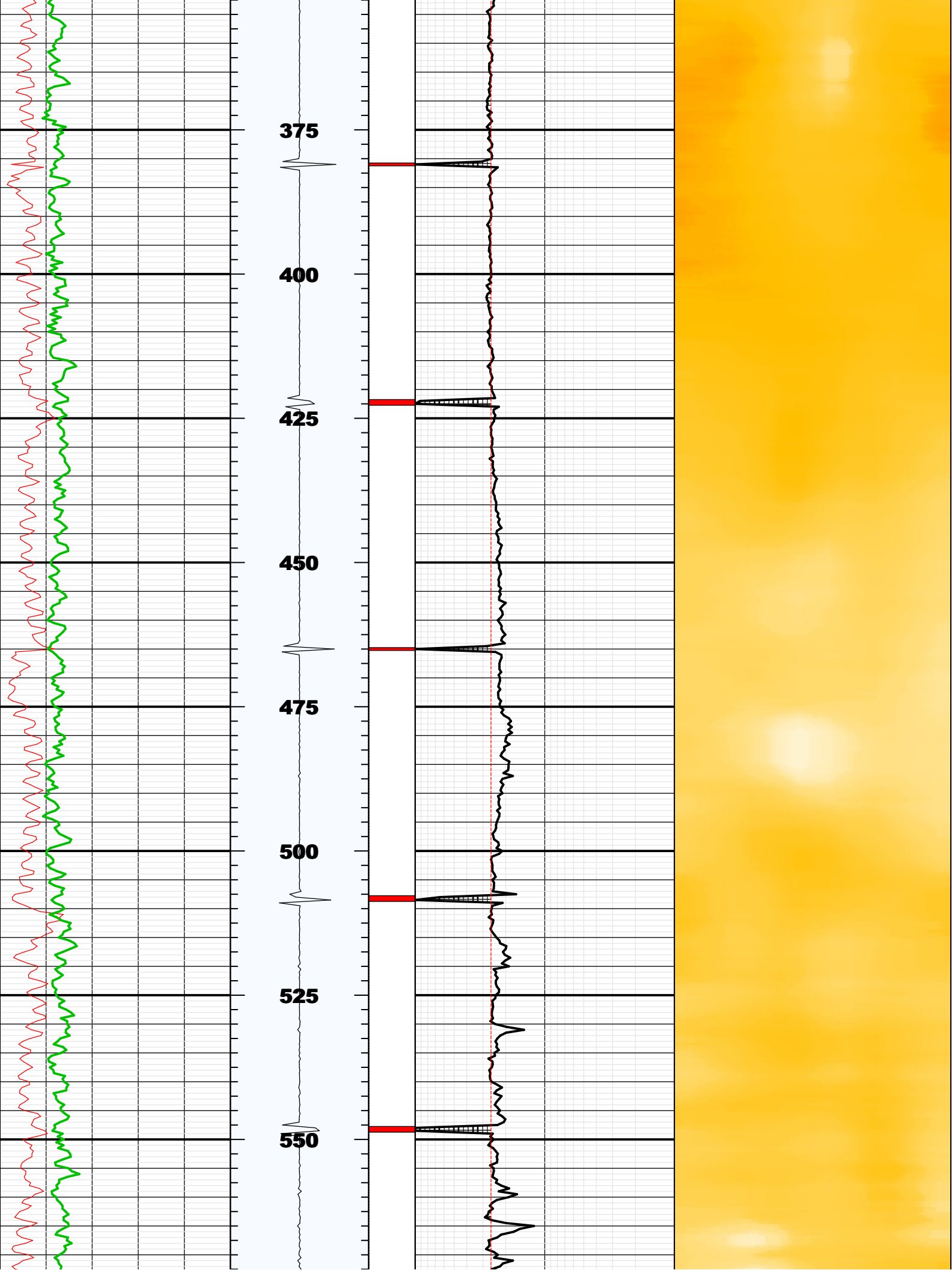
1. TOOL RAN AS PER TOOL SKETCH.
2. REPEAT PASS RECORDED AT 0 PSI MAIN PASS RECORDED AT 2500 PSI
3. BHT 217 DEG F
4. ESTIMATED TOC 740'

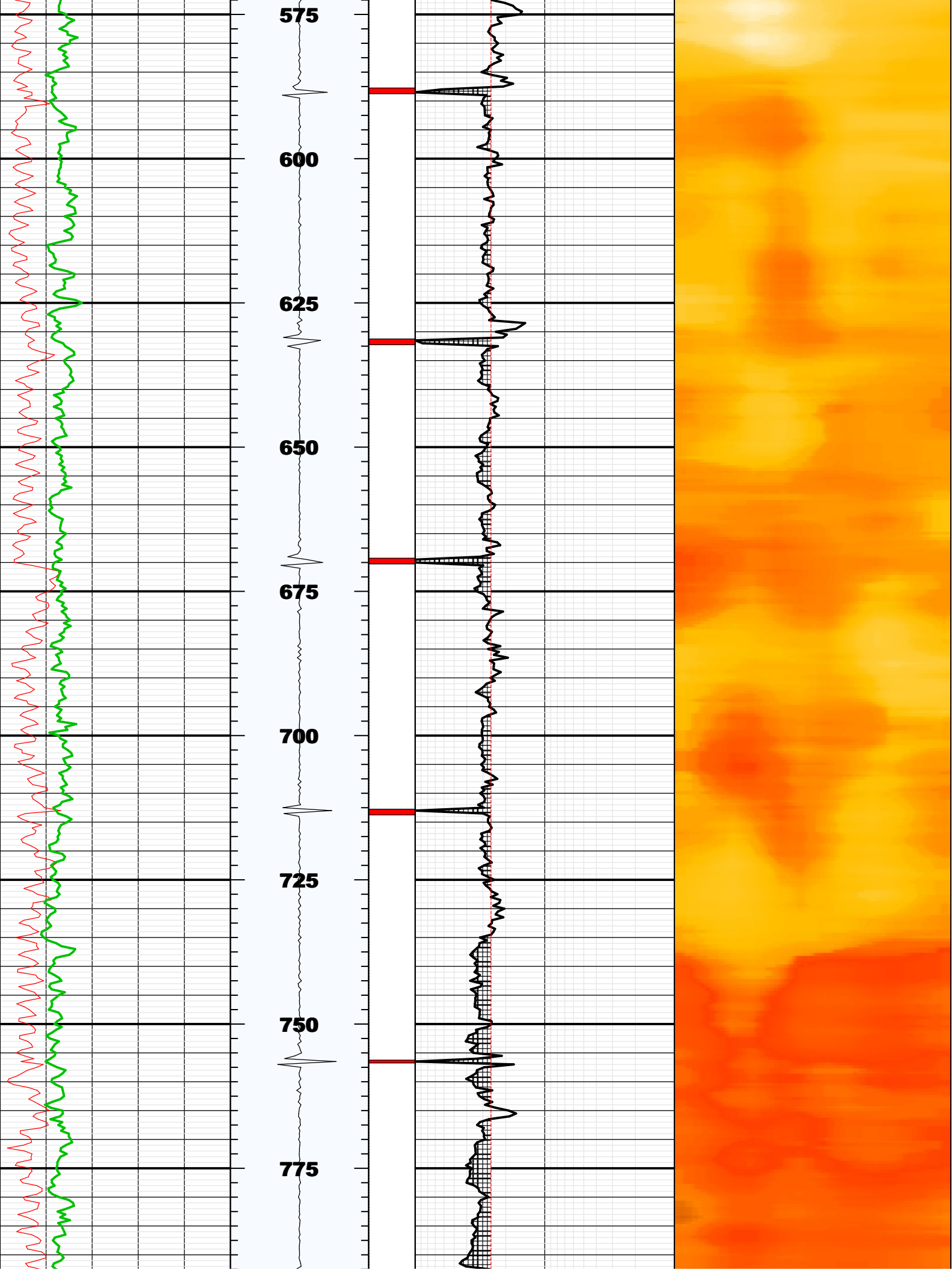
Main Pass

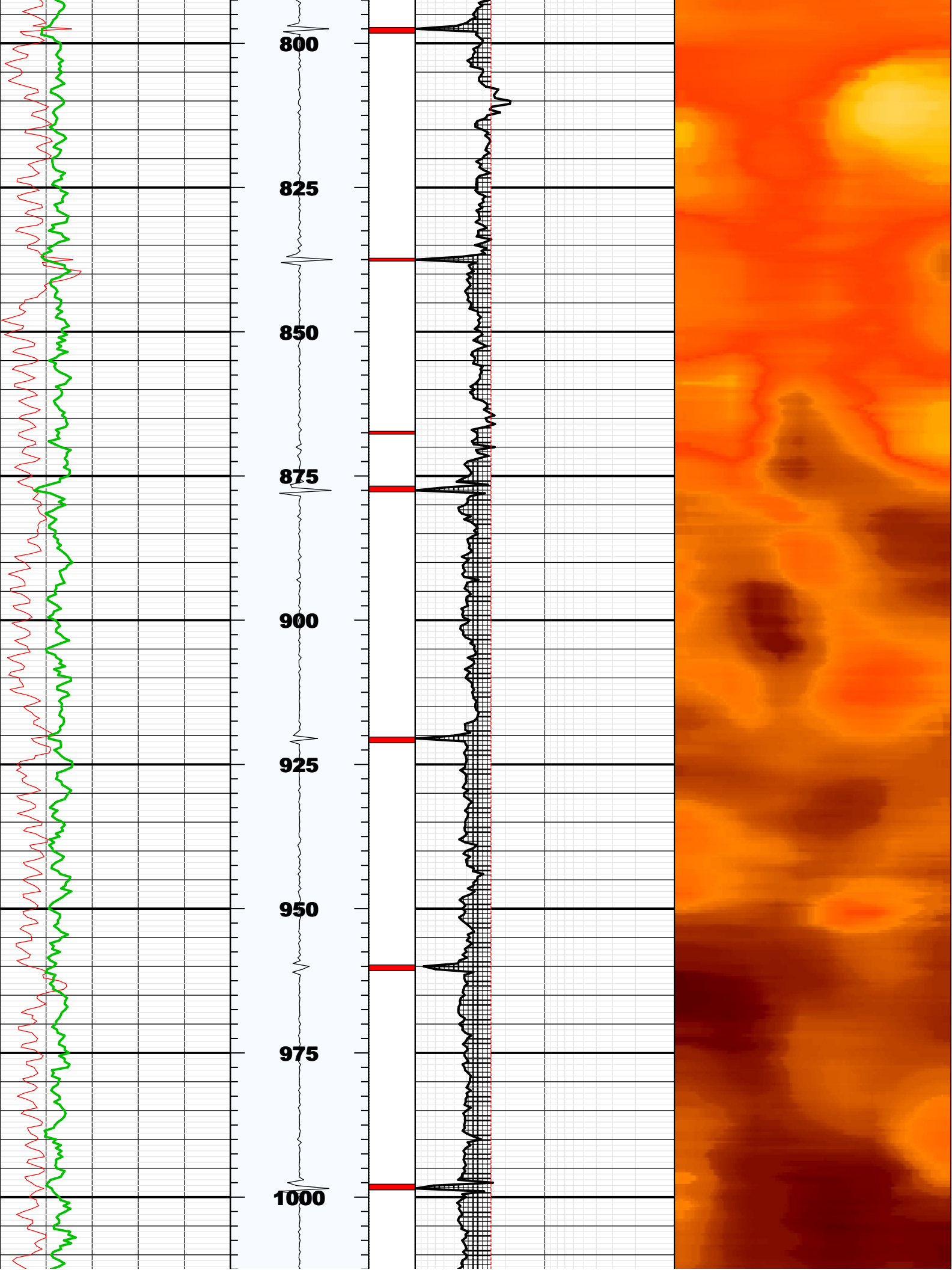
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Well: Greyson #LD28-780  
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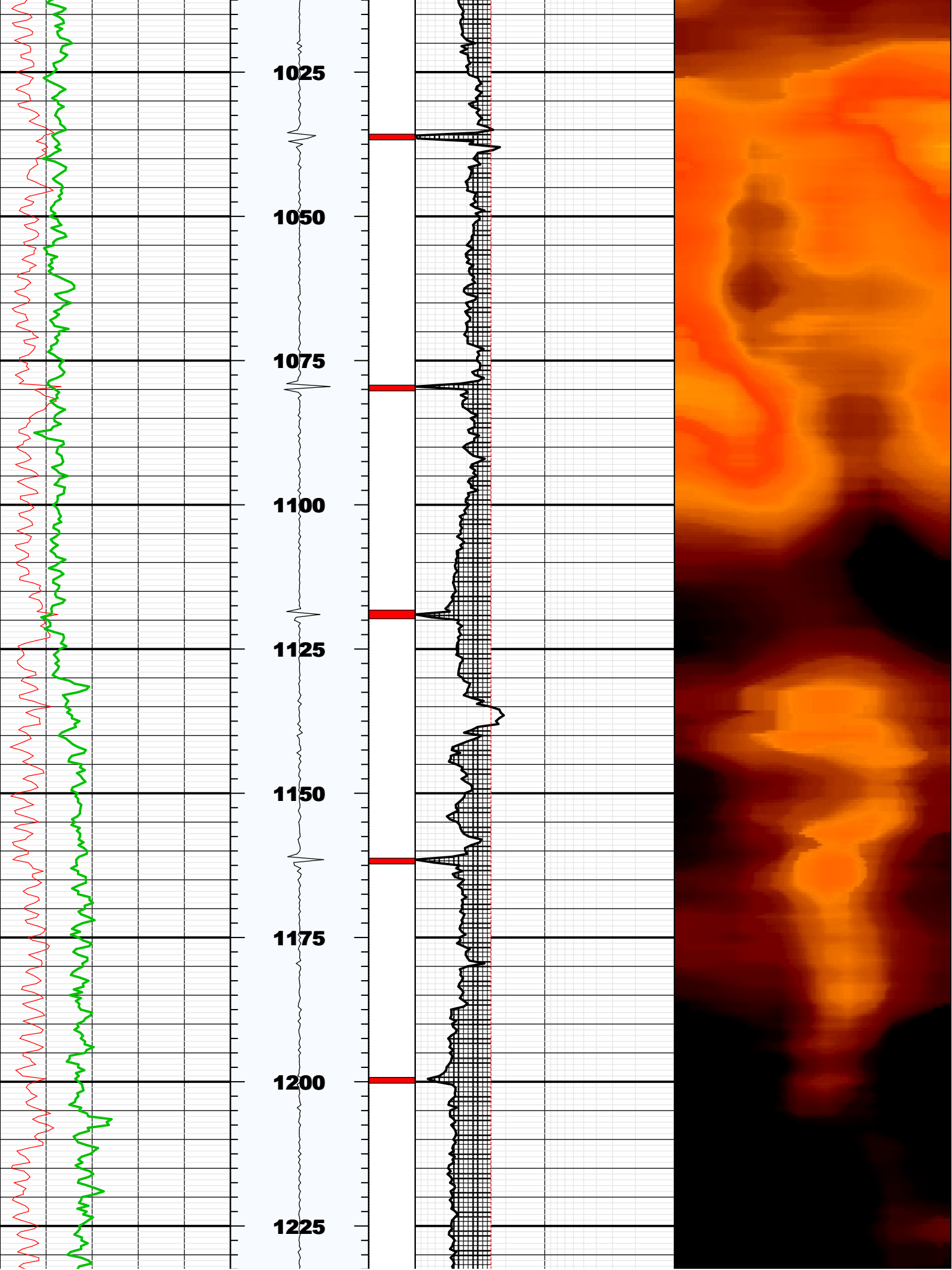




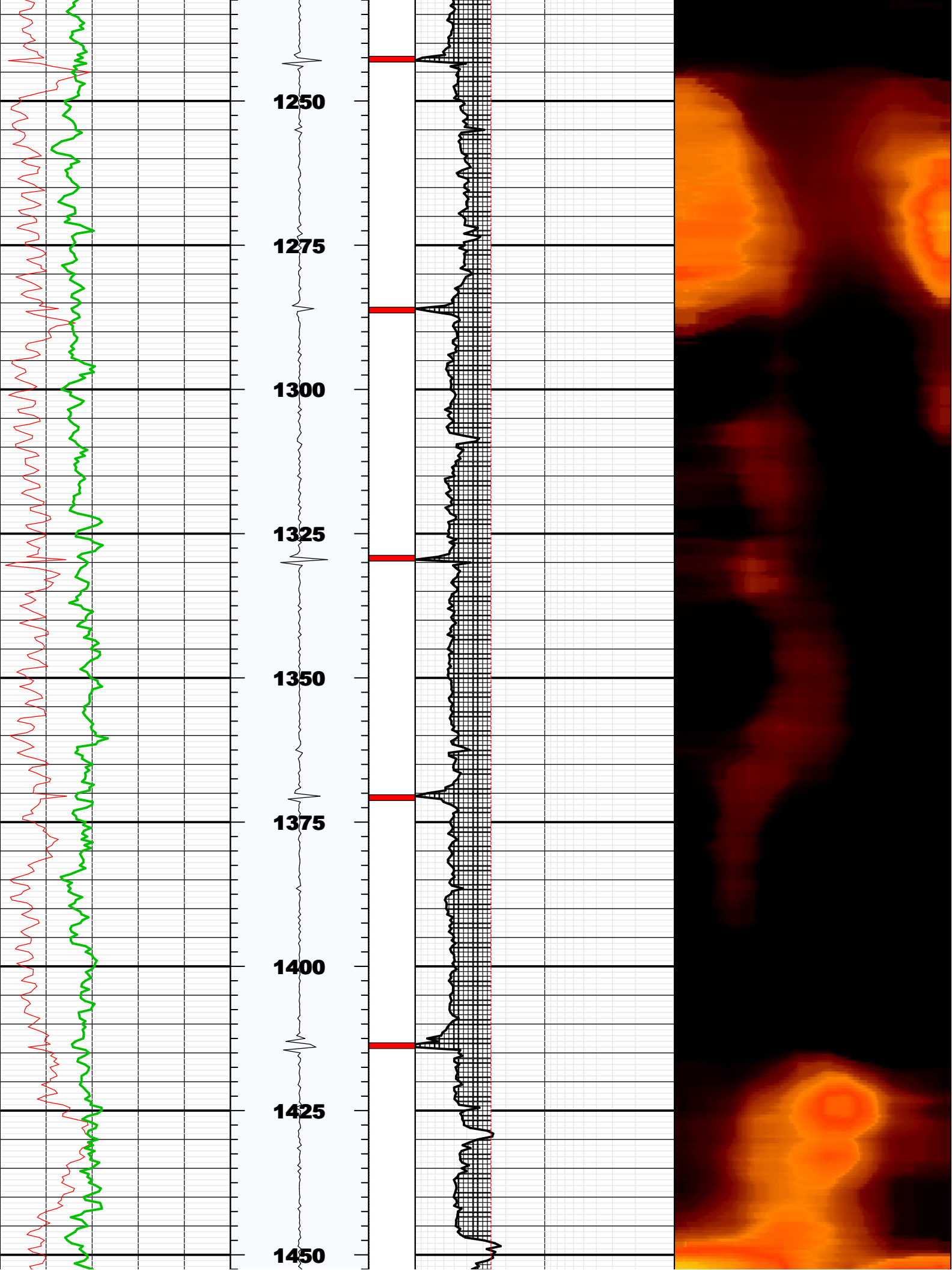


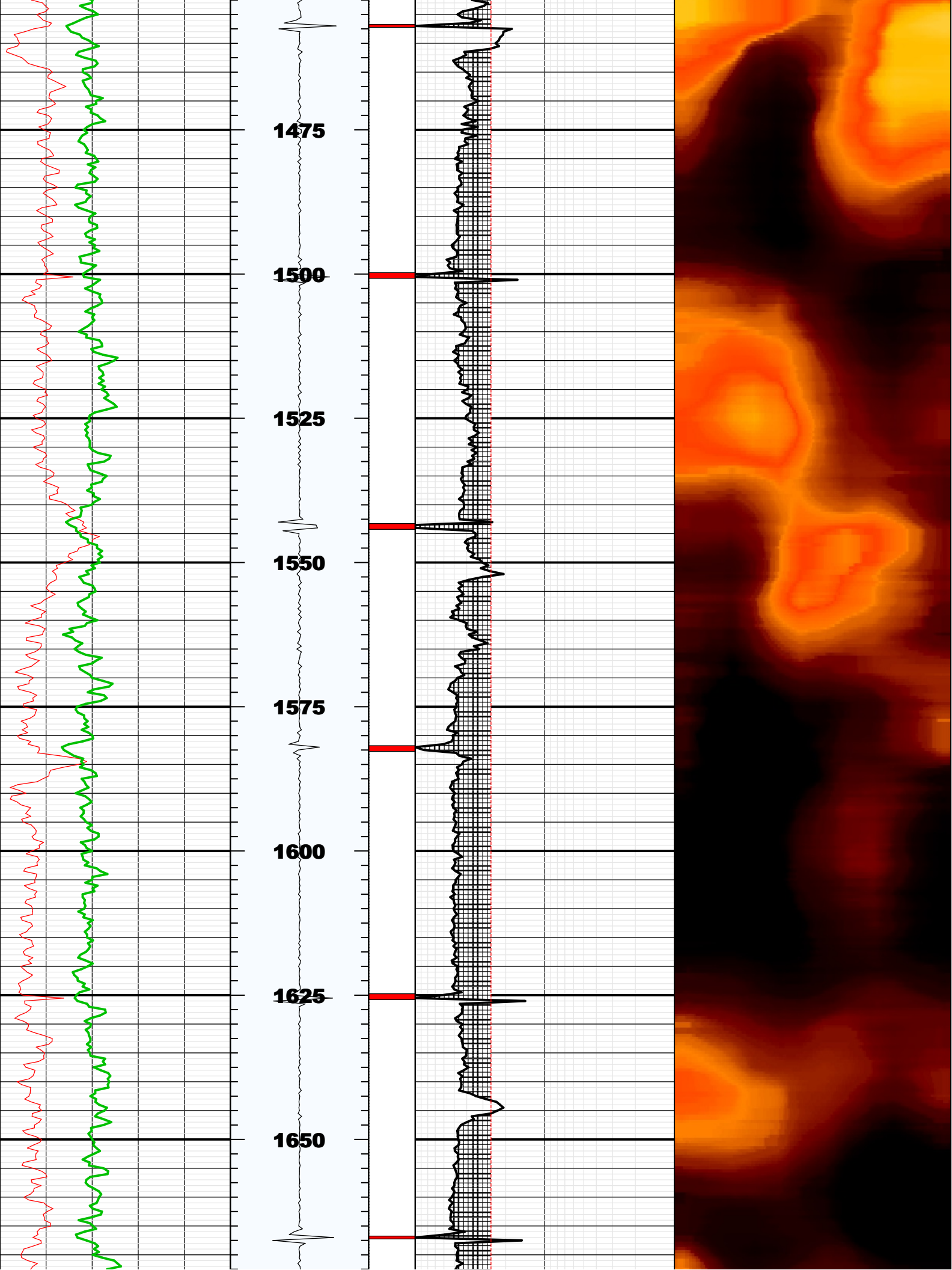


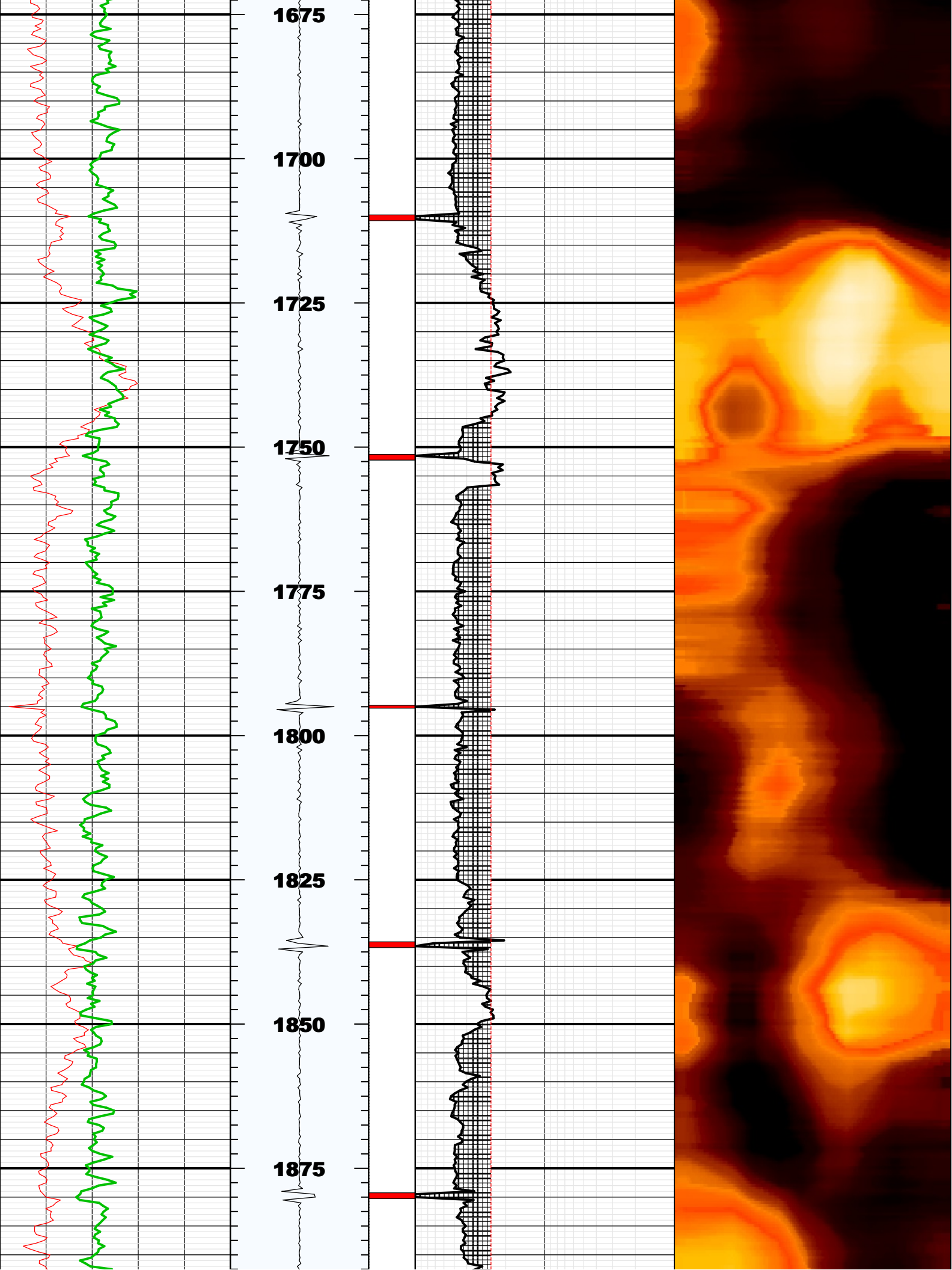


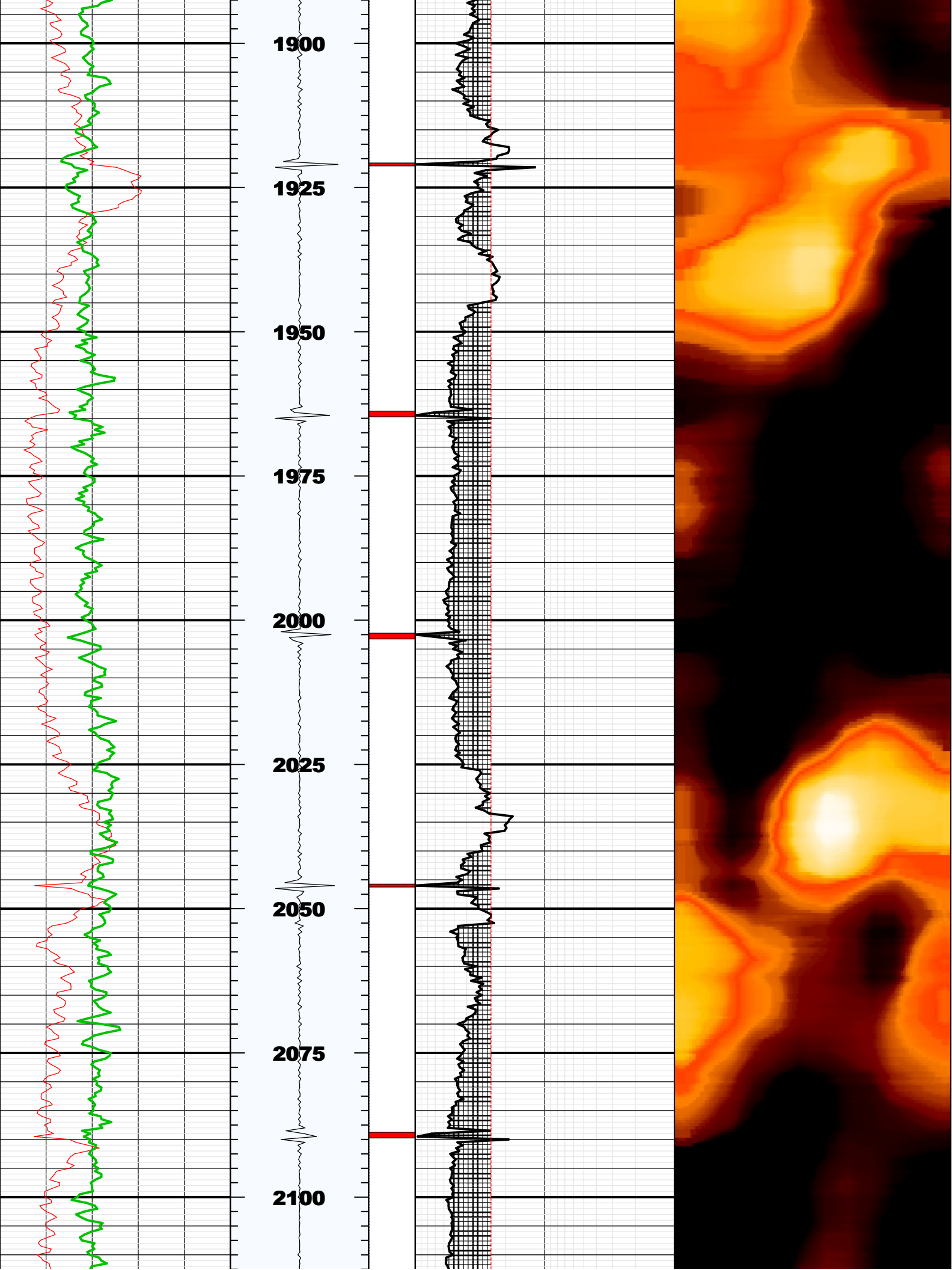




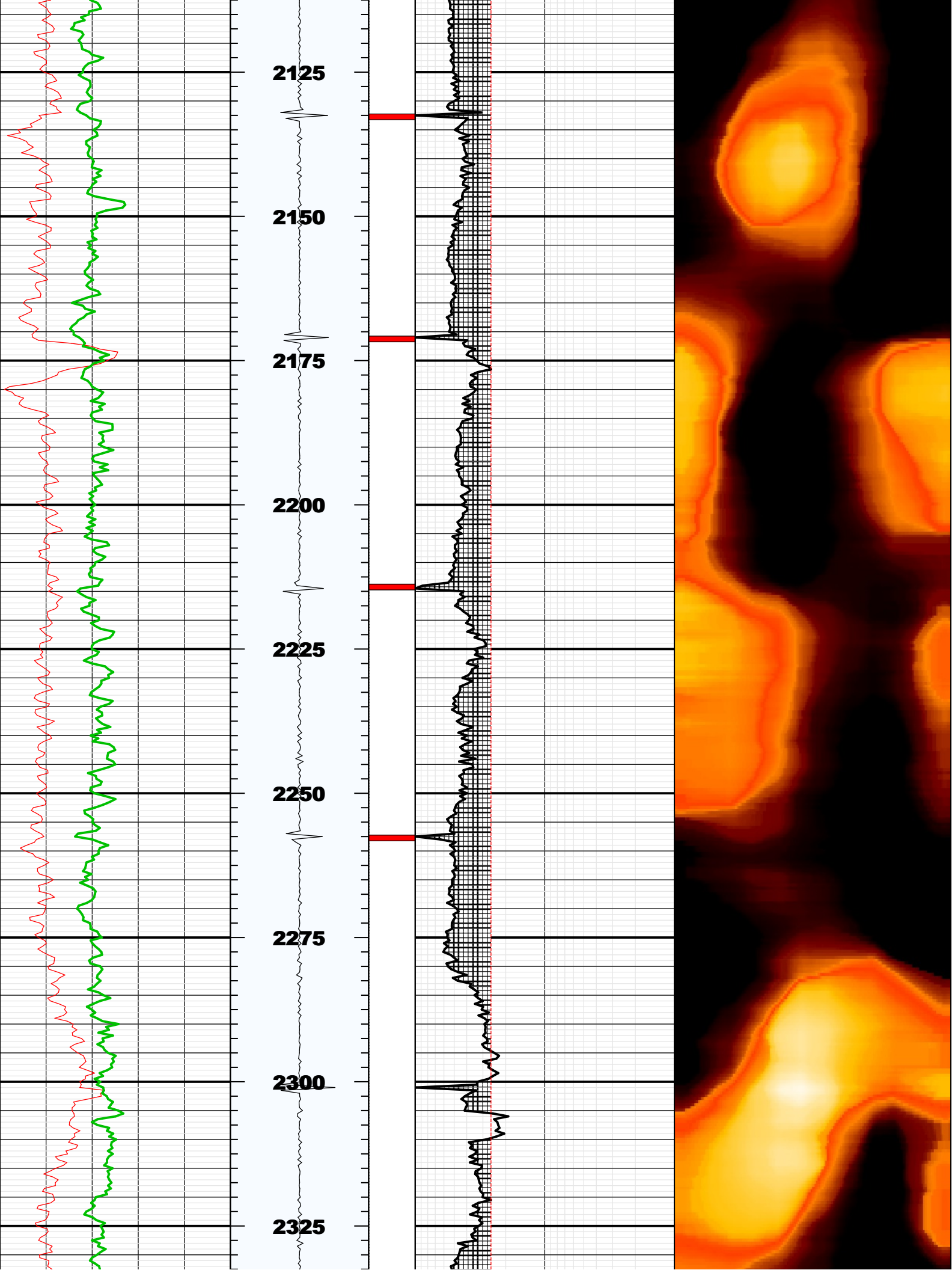


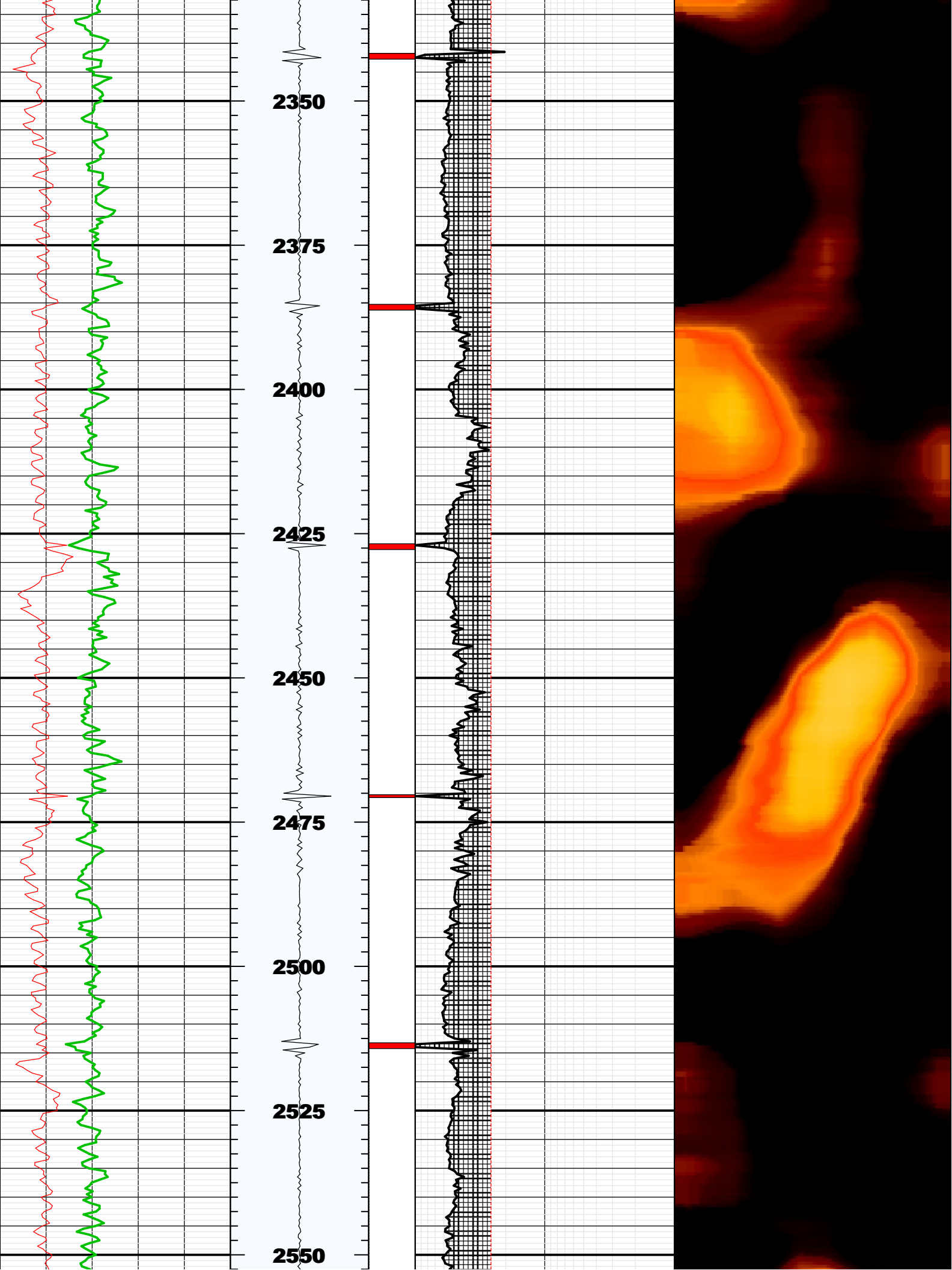


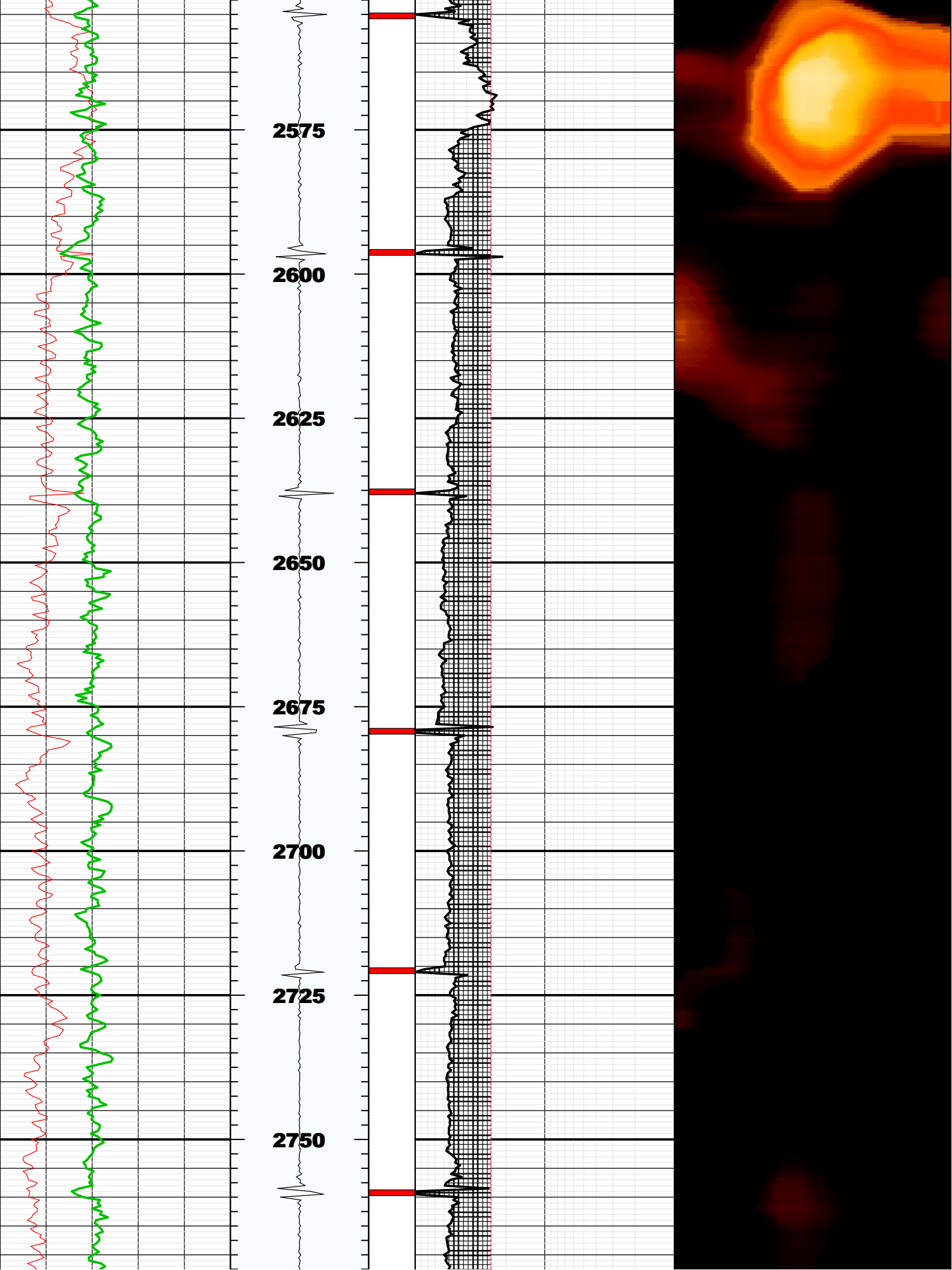




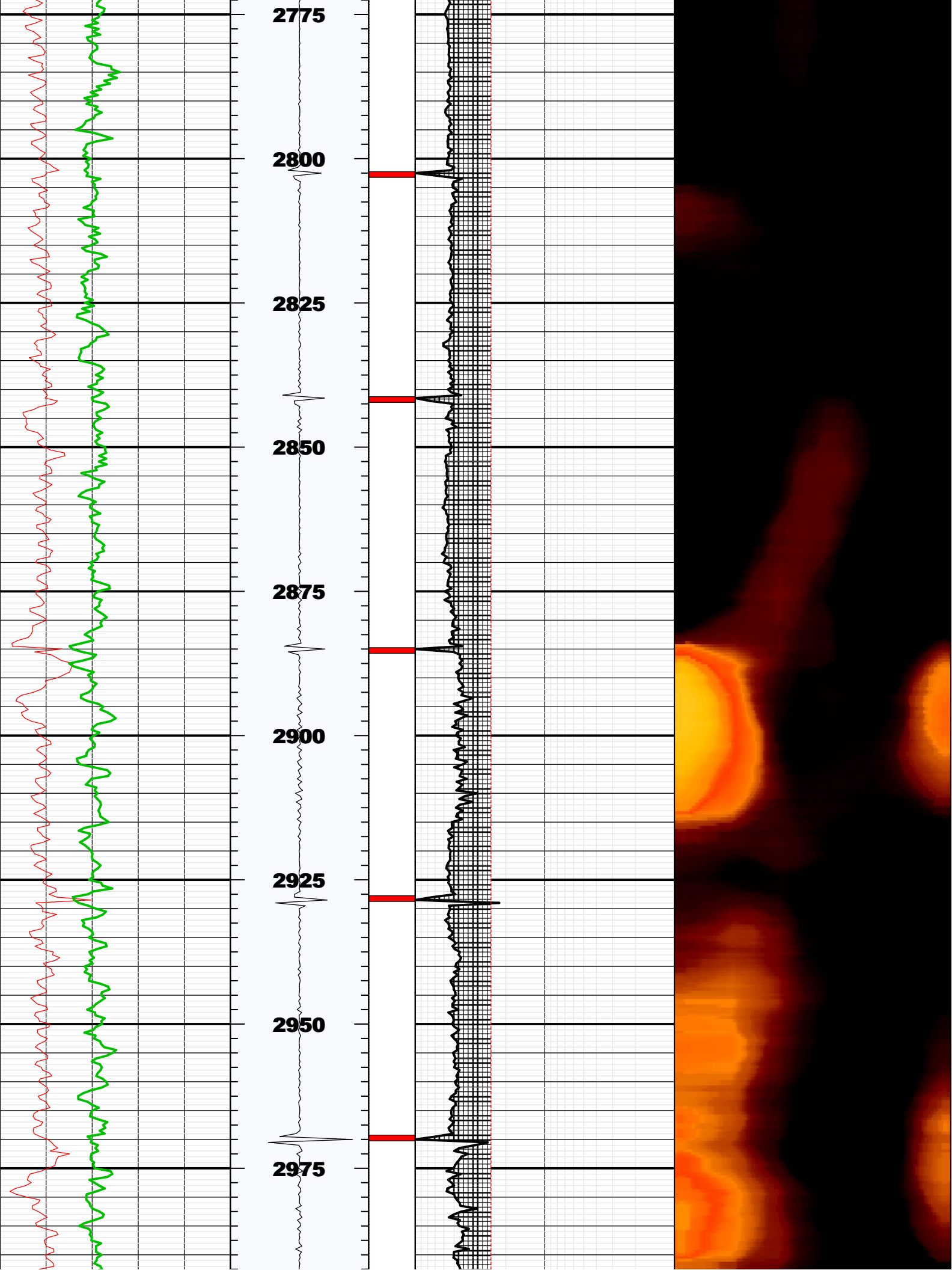


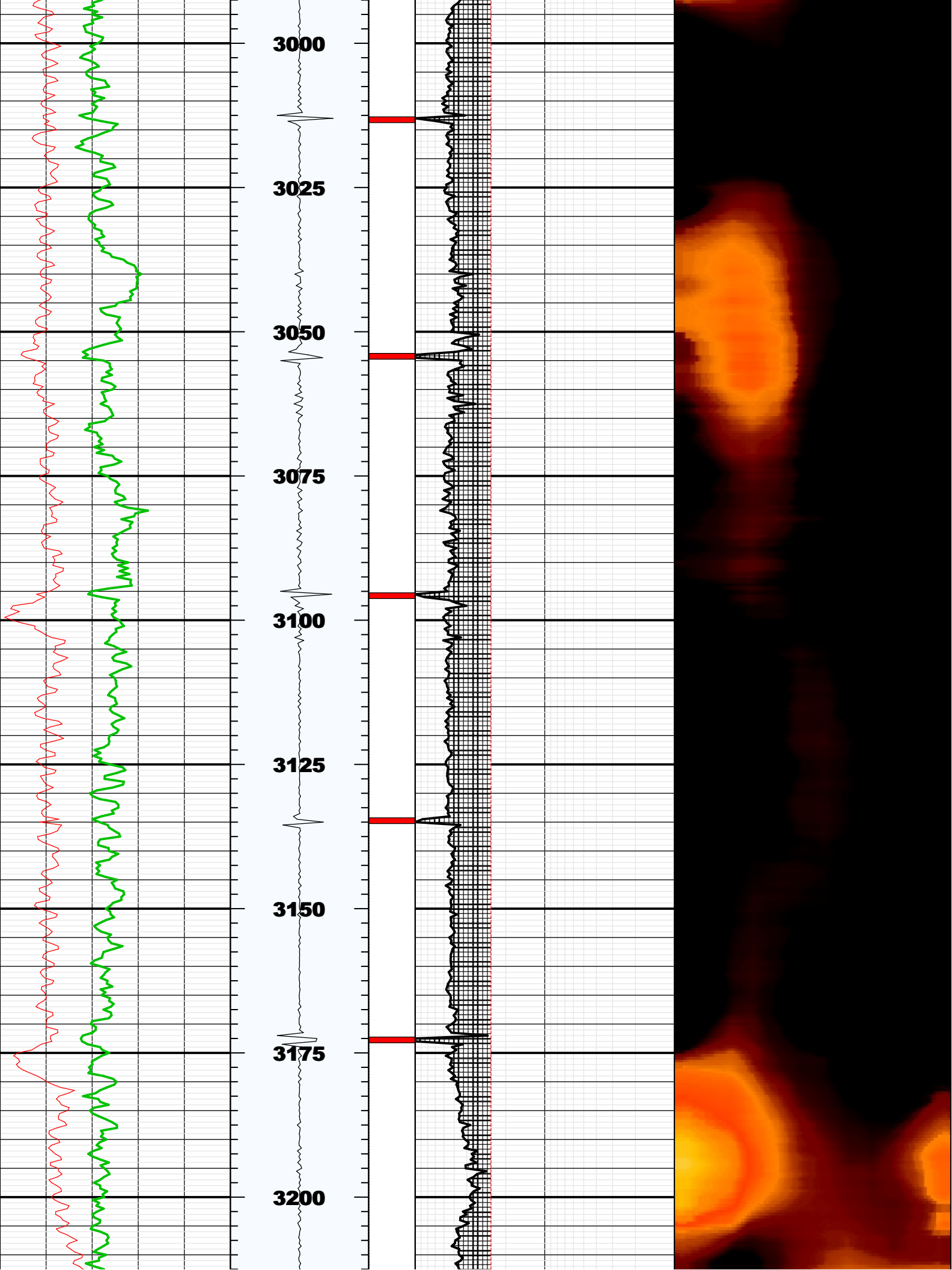


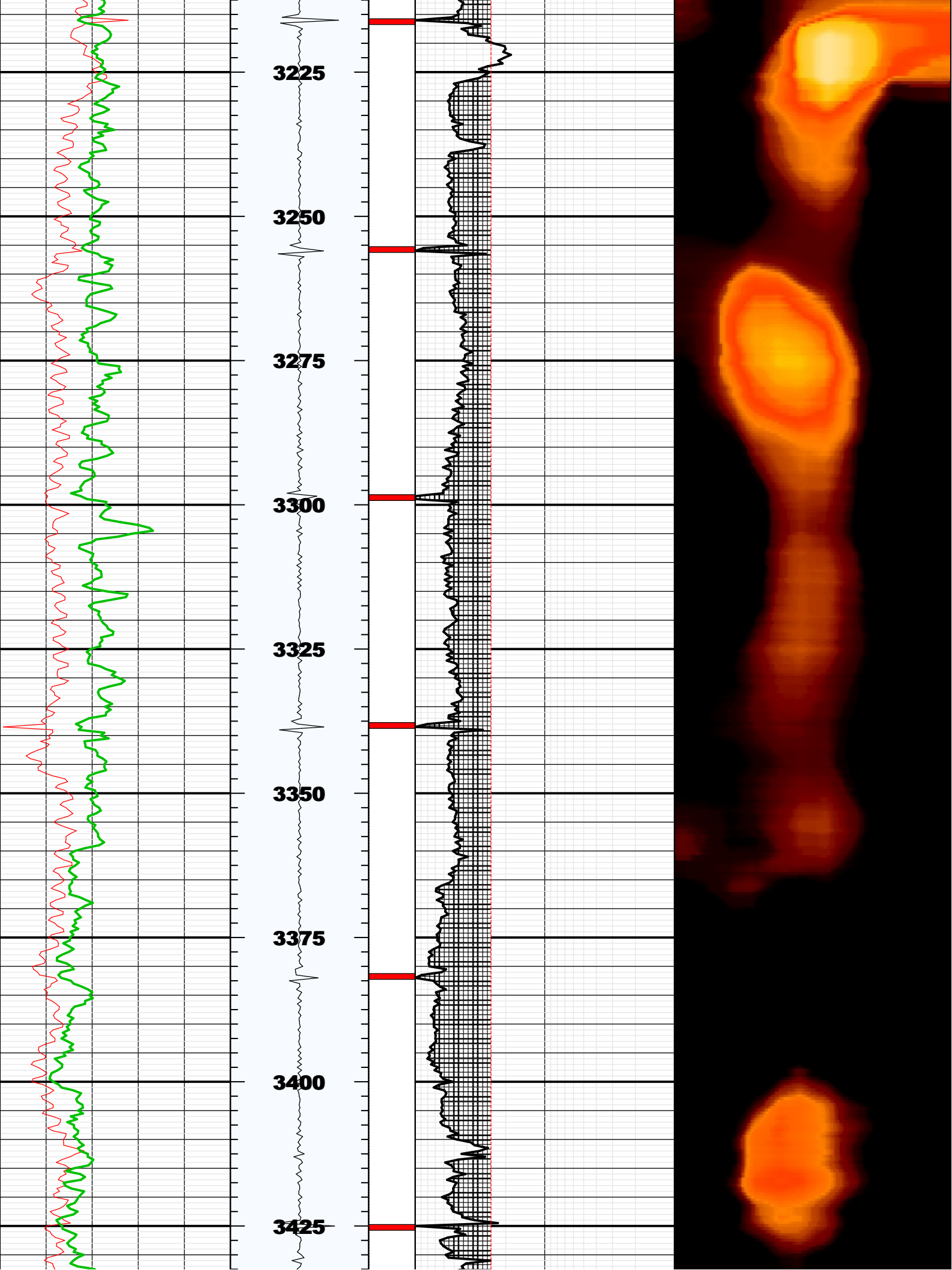


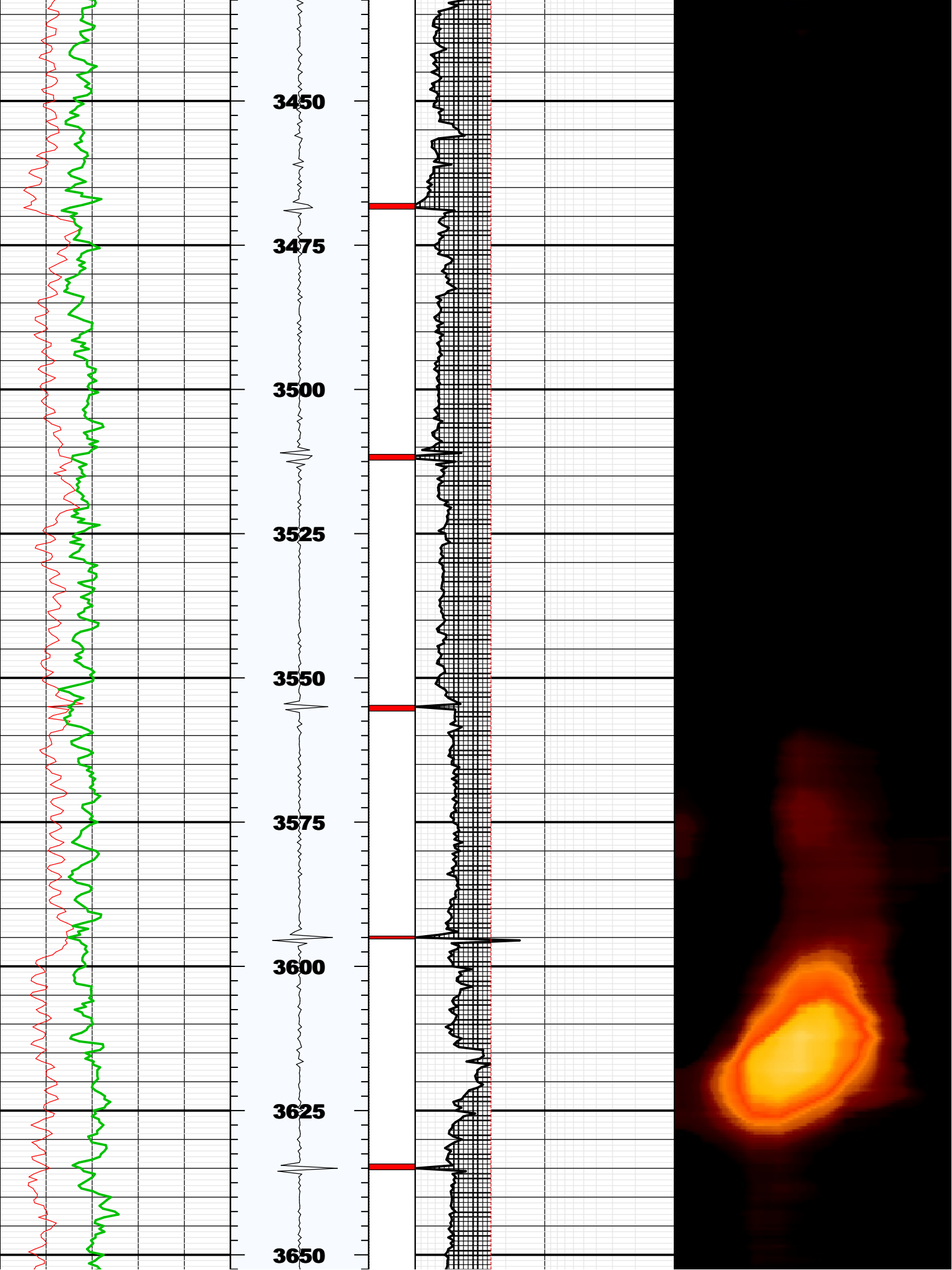


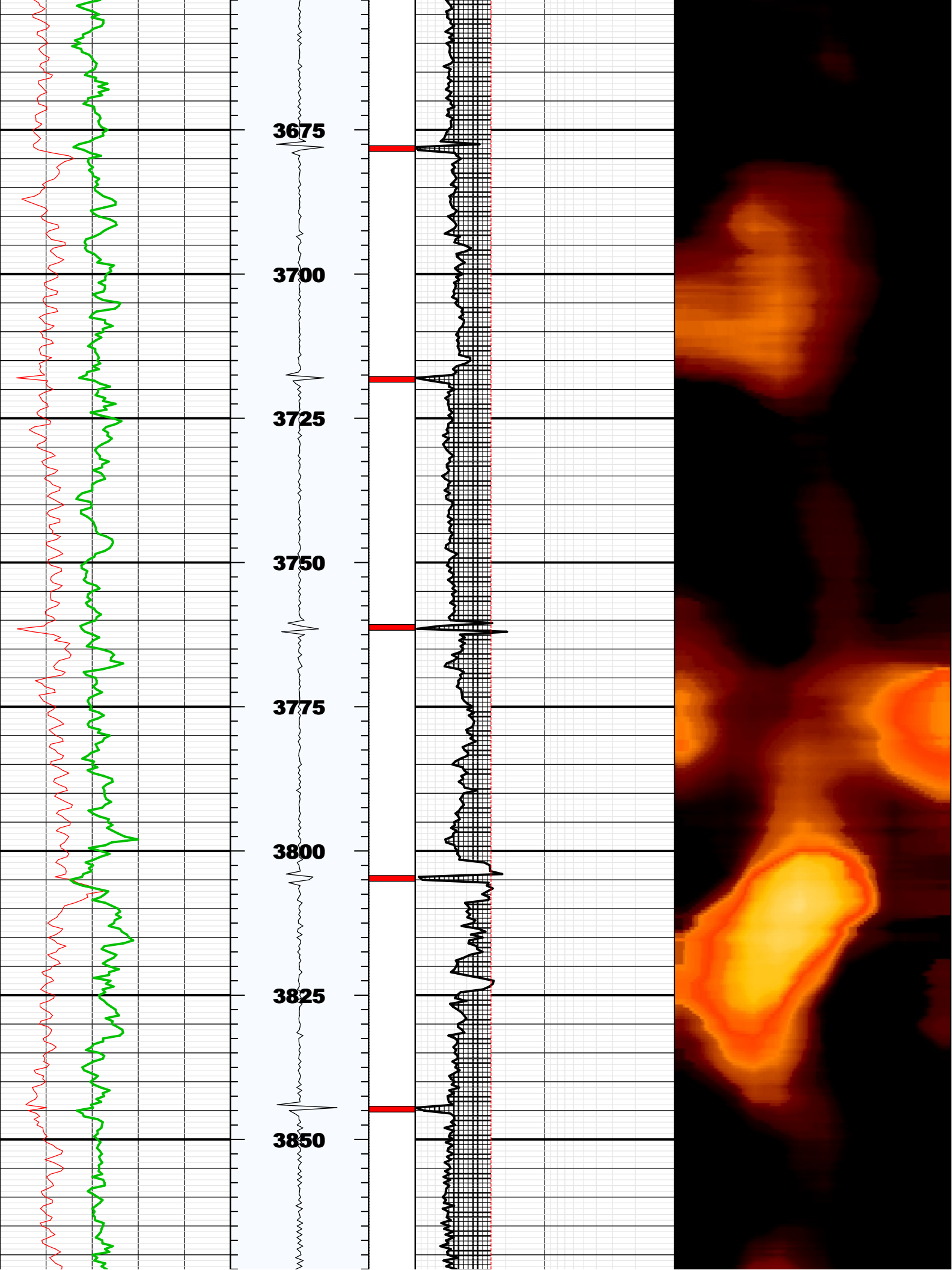




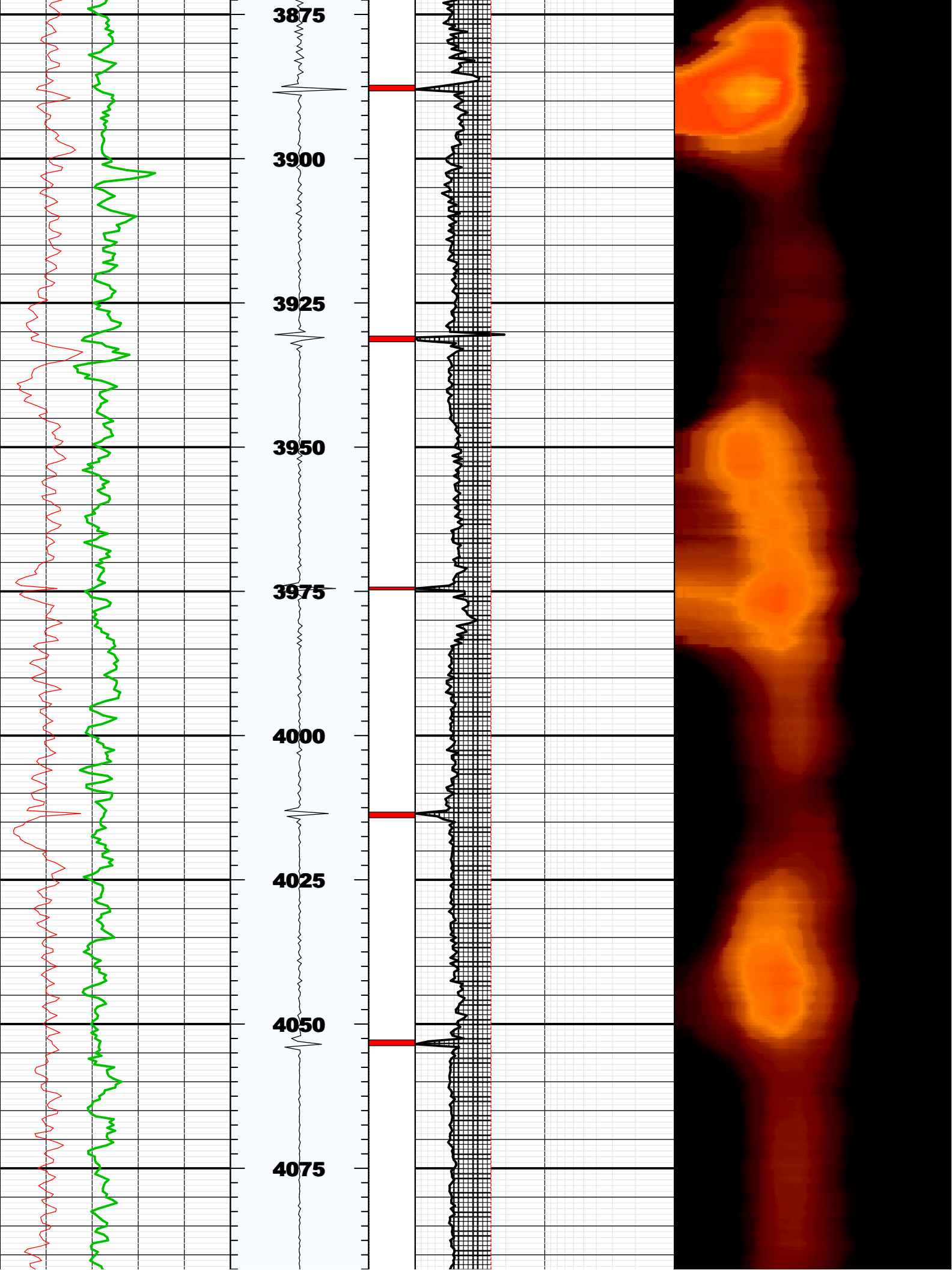


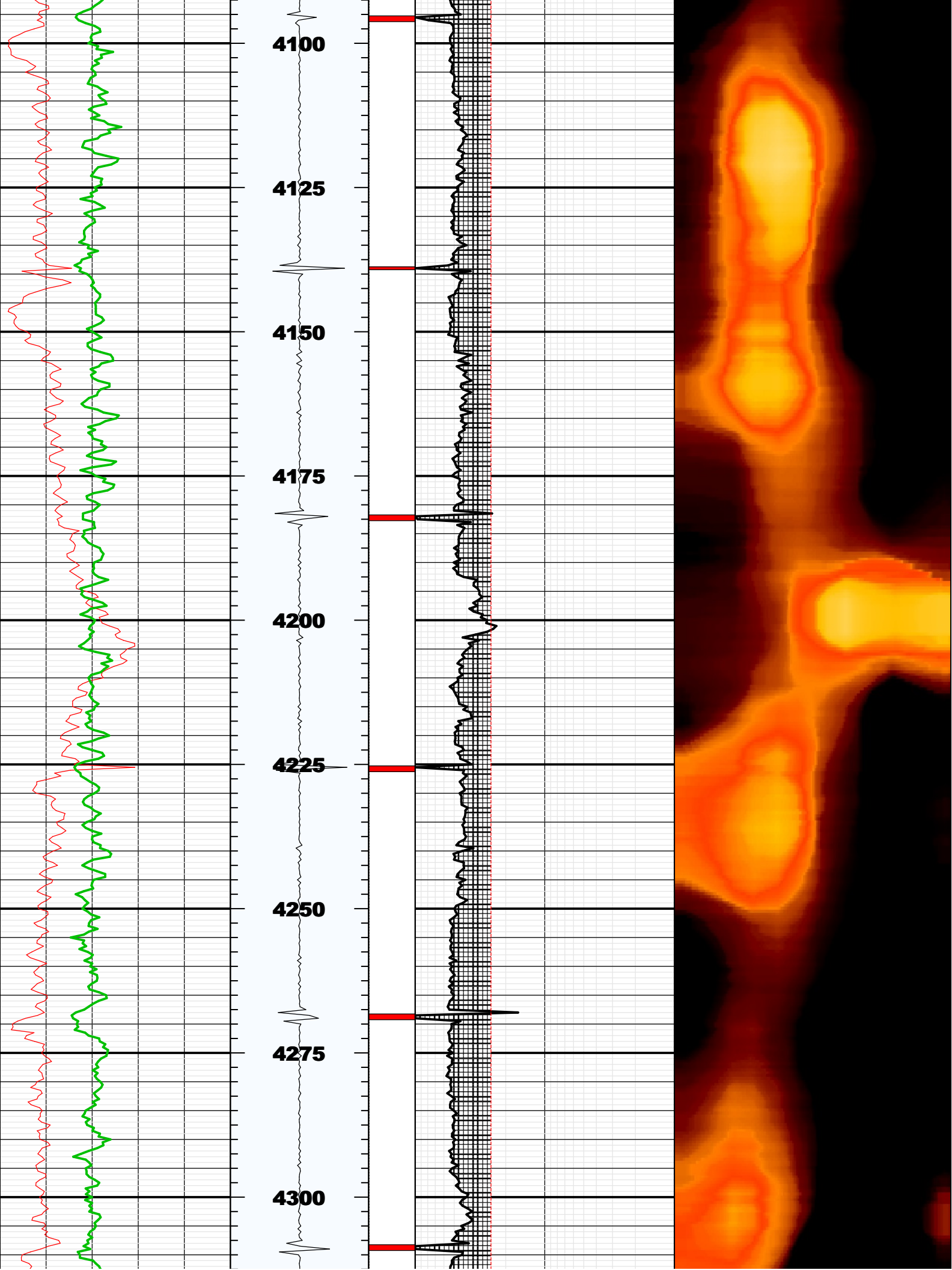




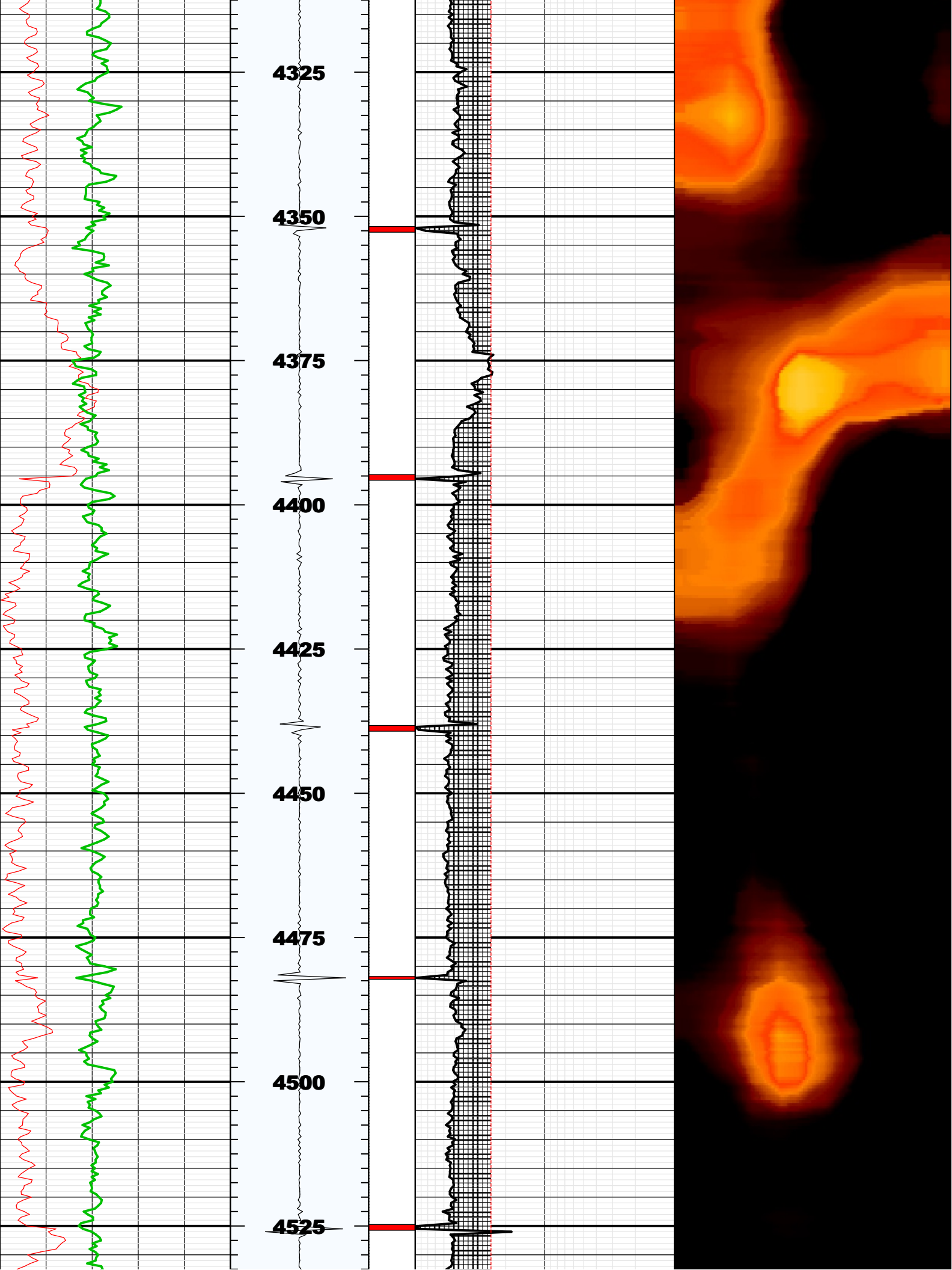


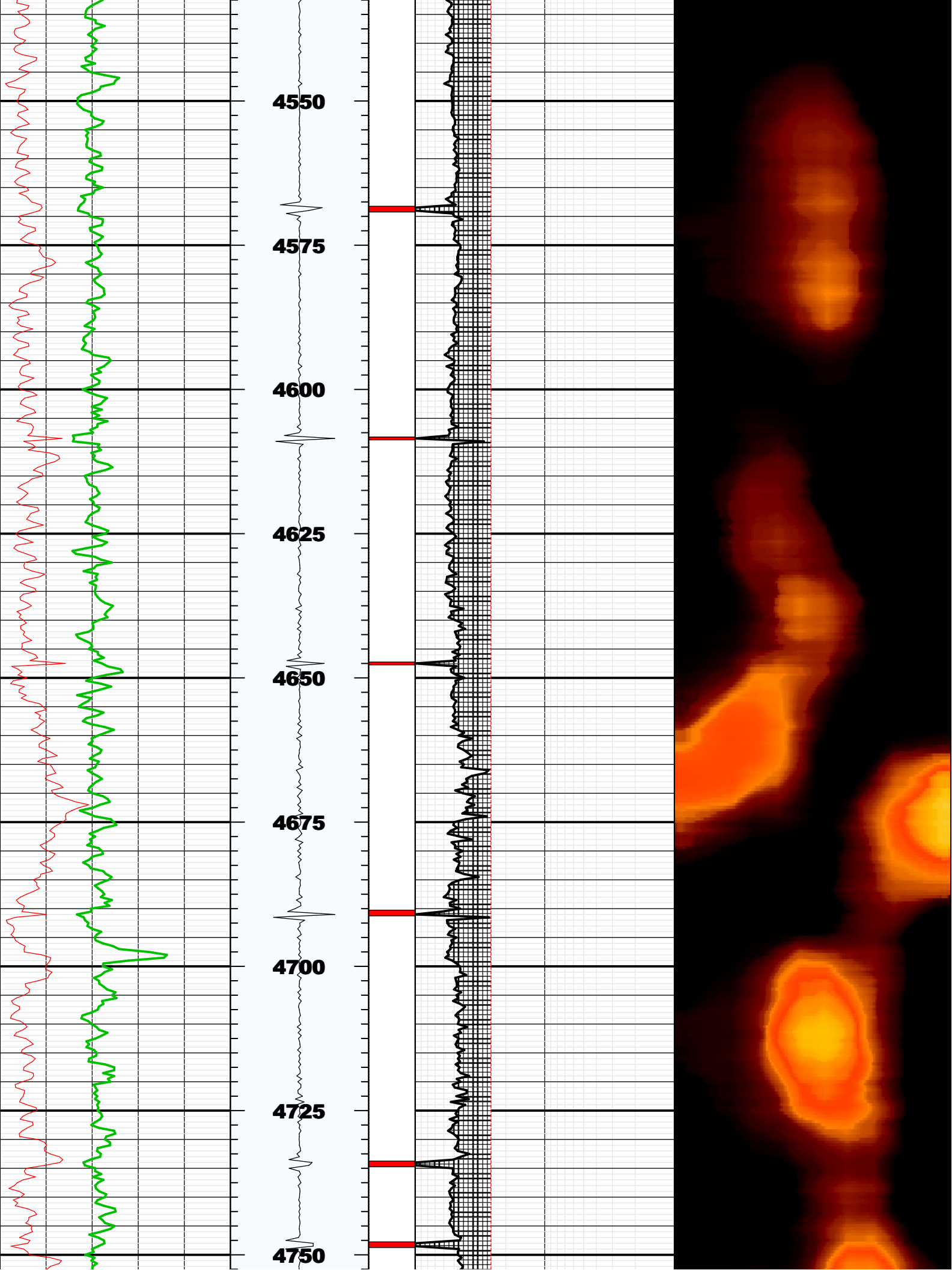


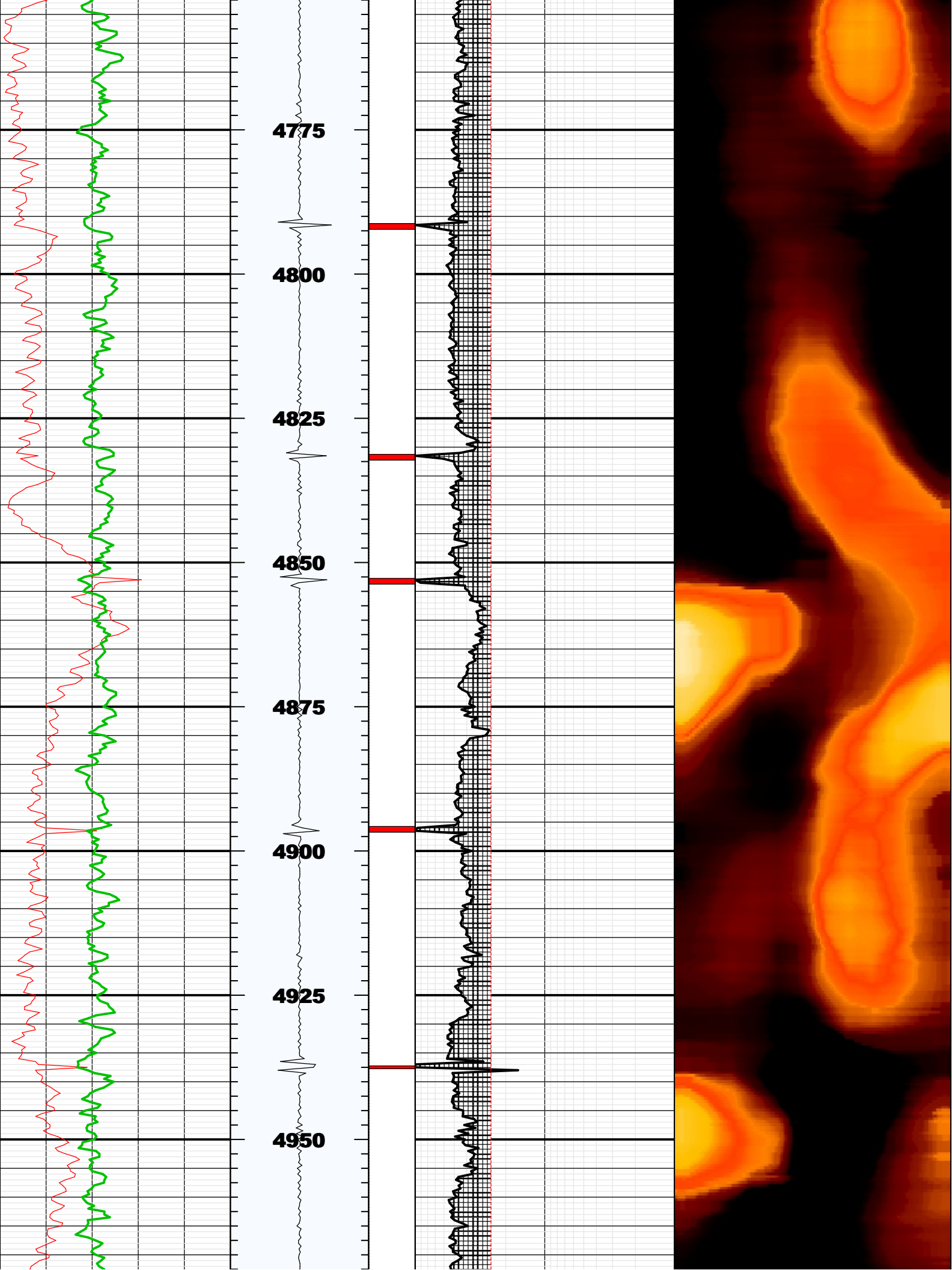


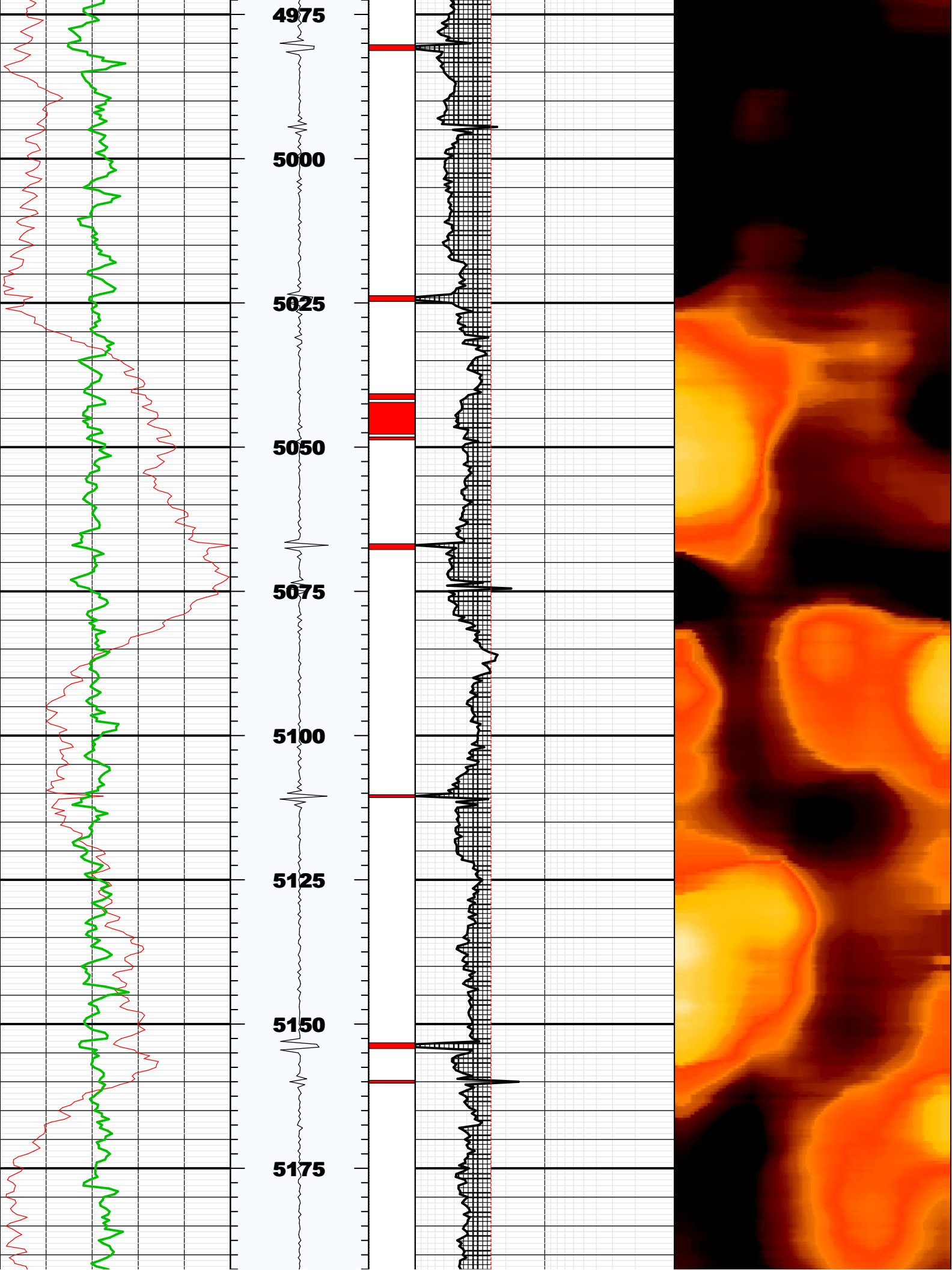




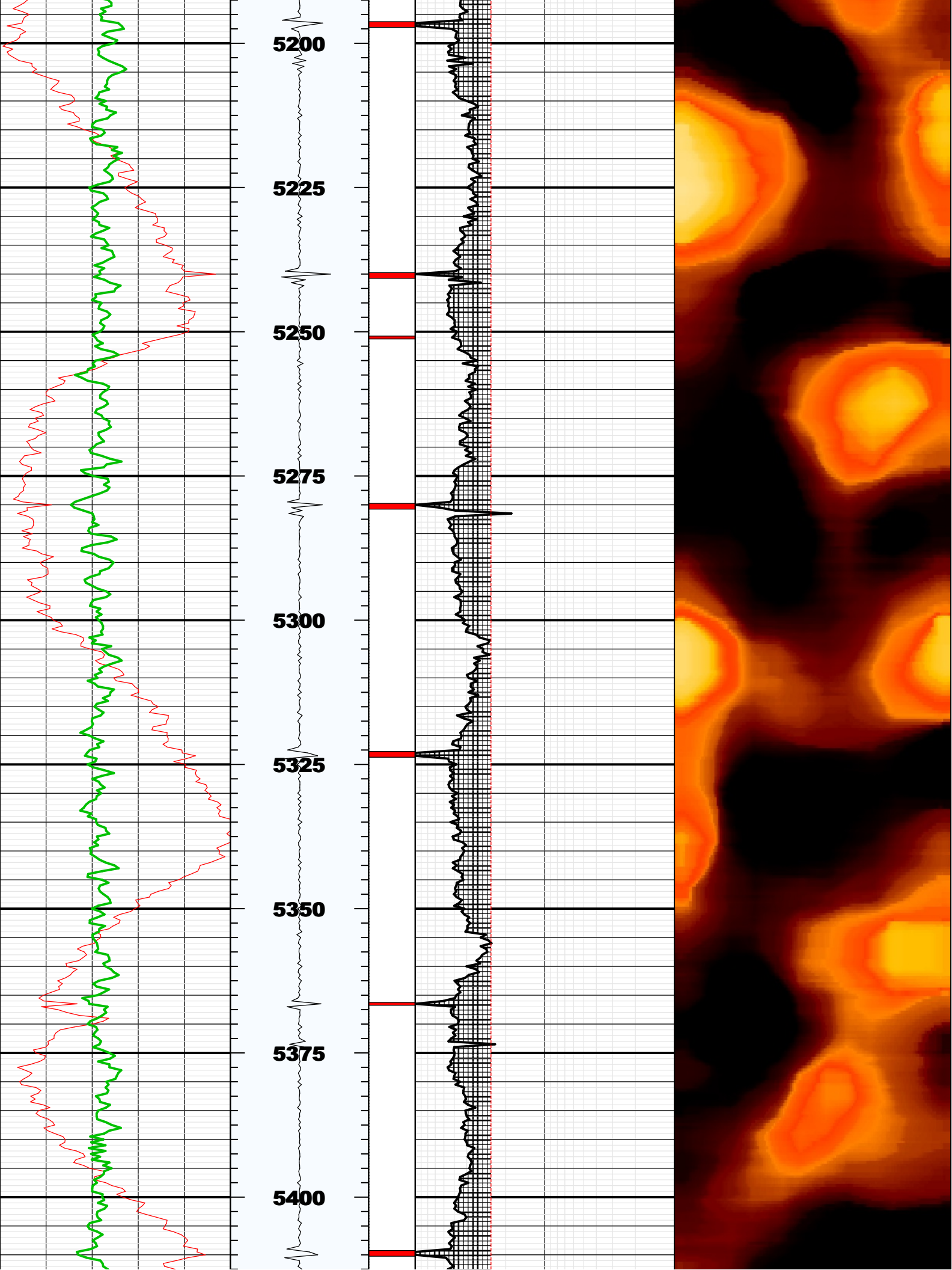


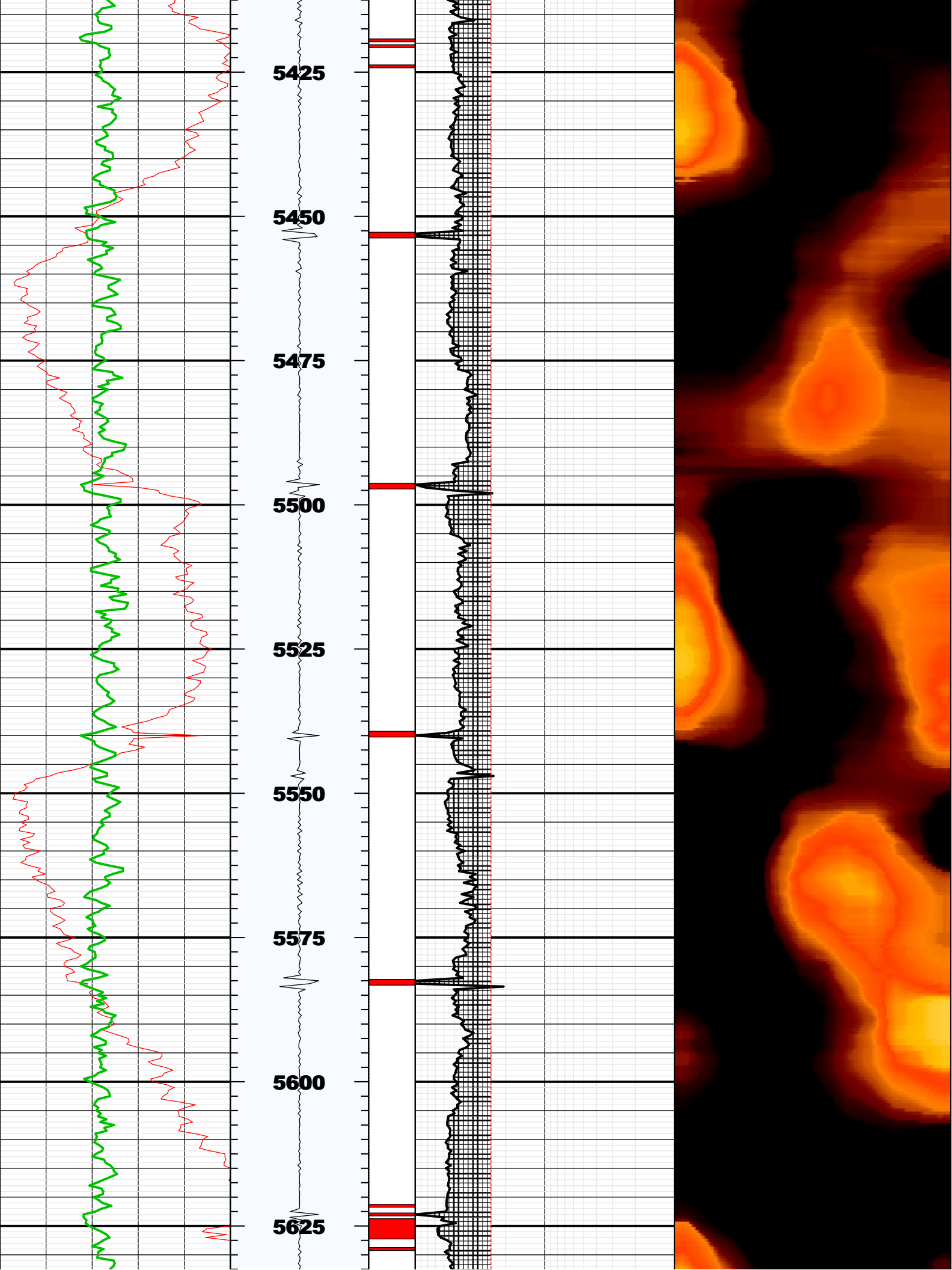


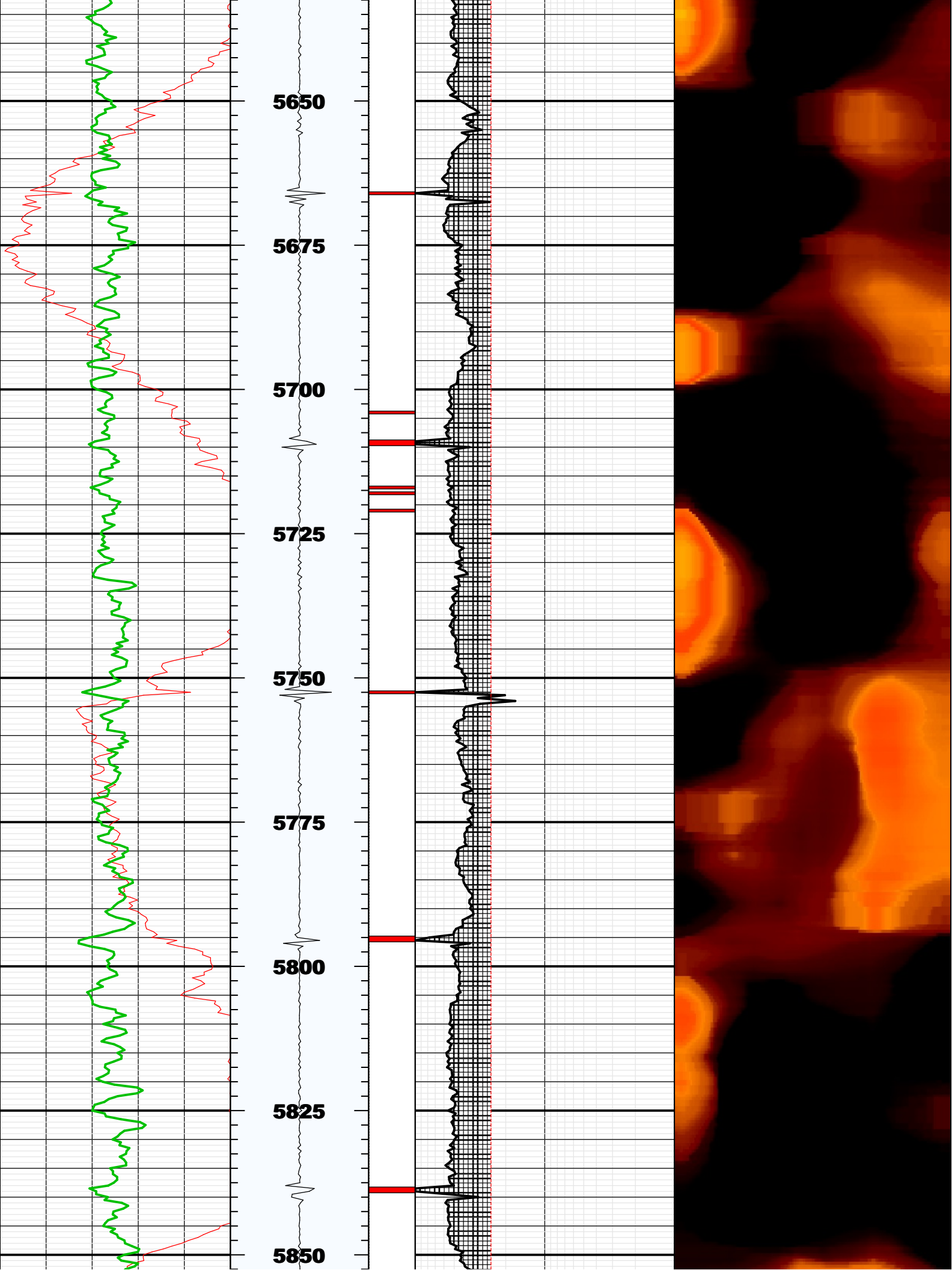




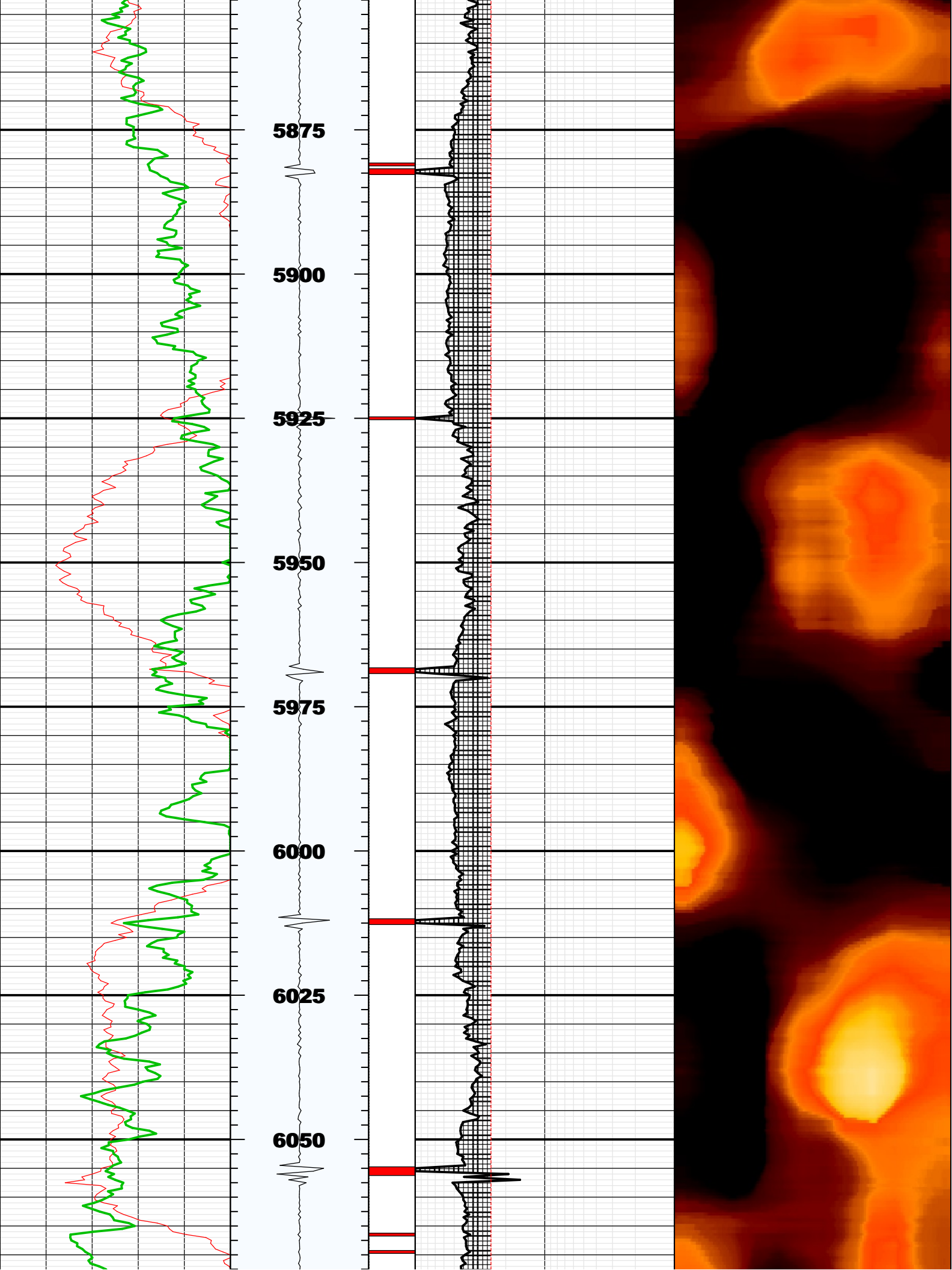


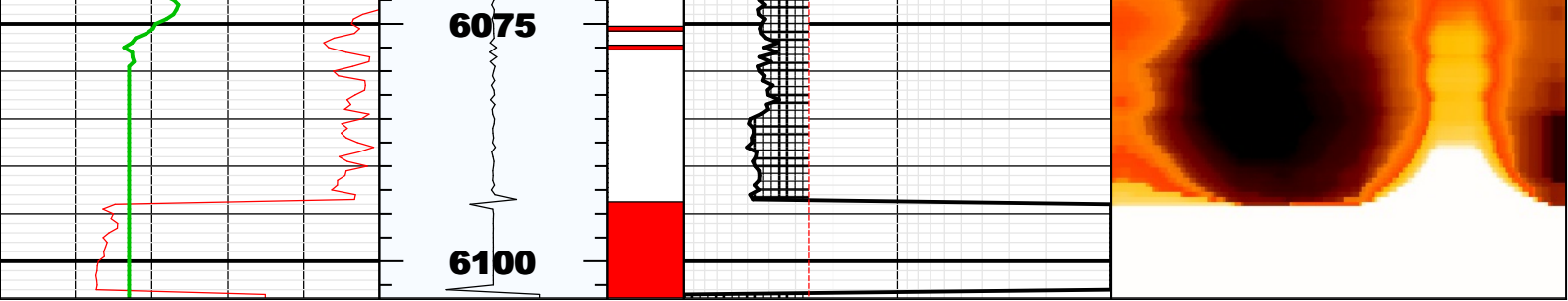








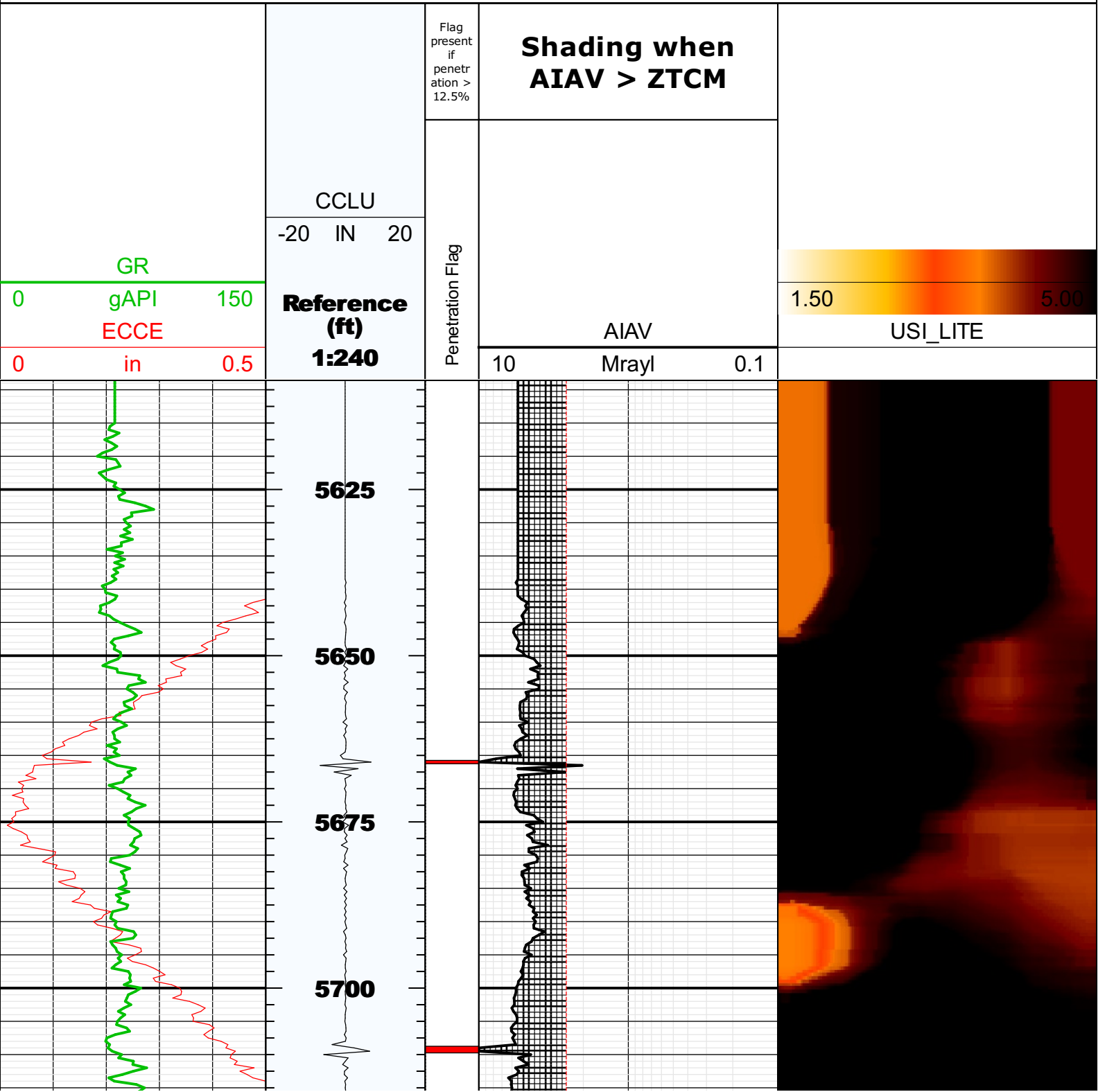


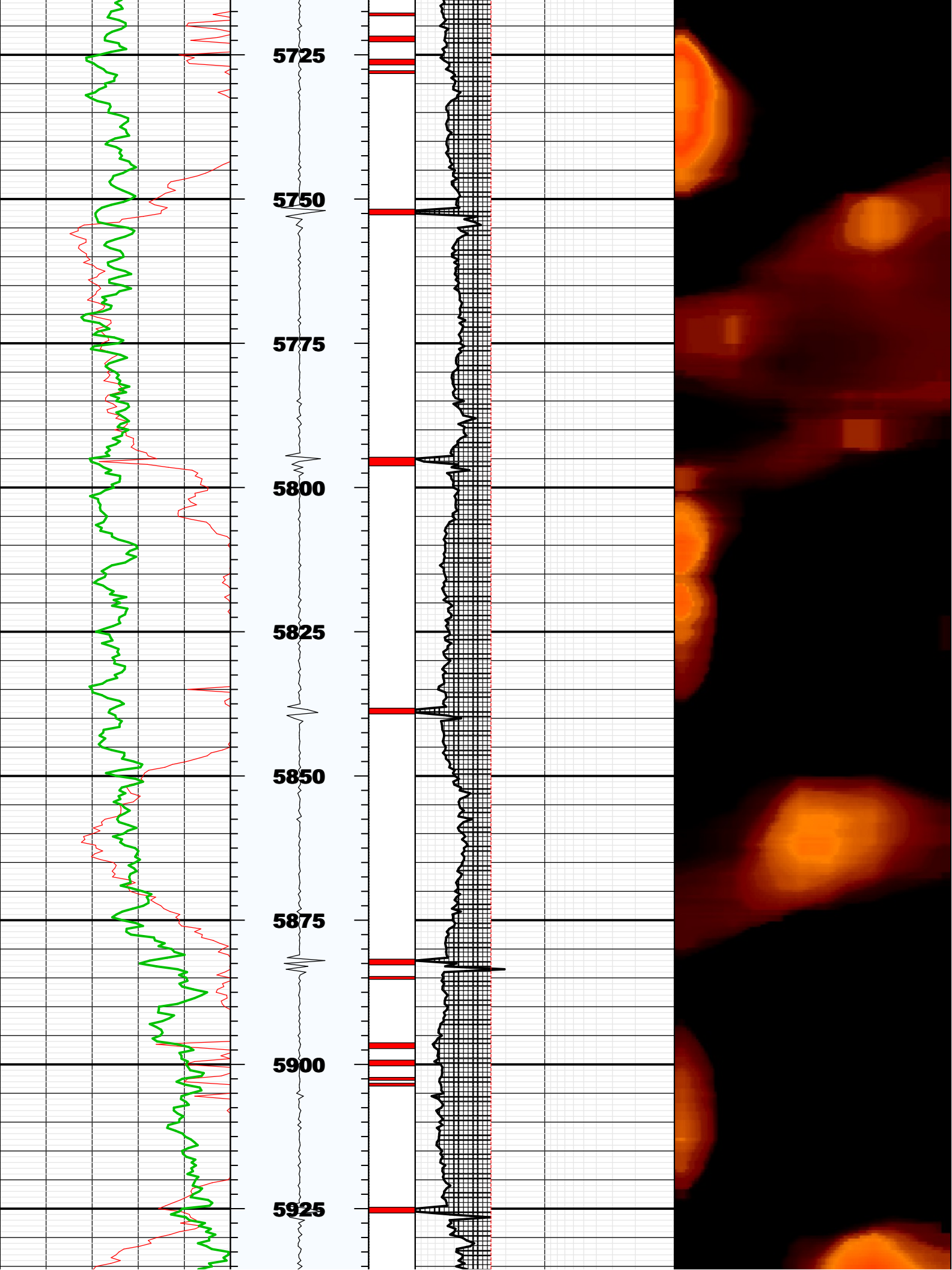


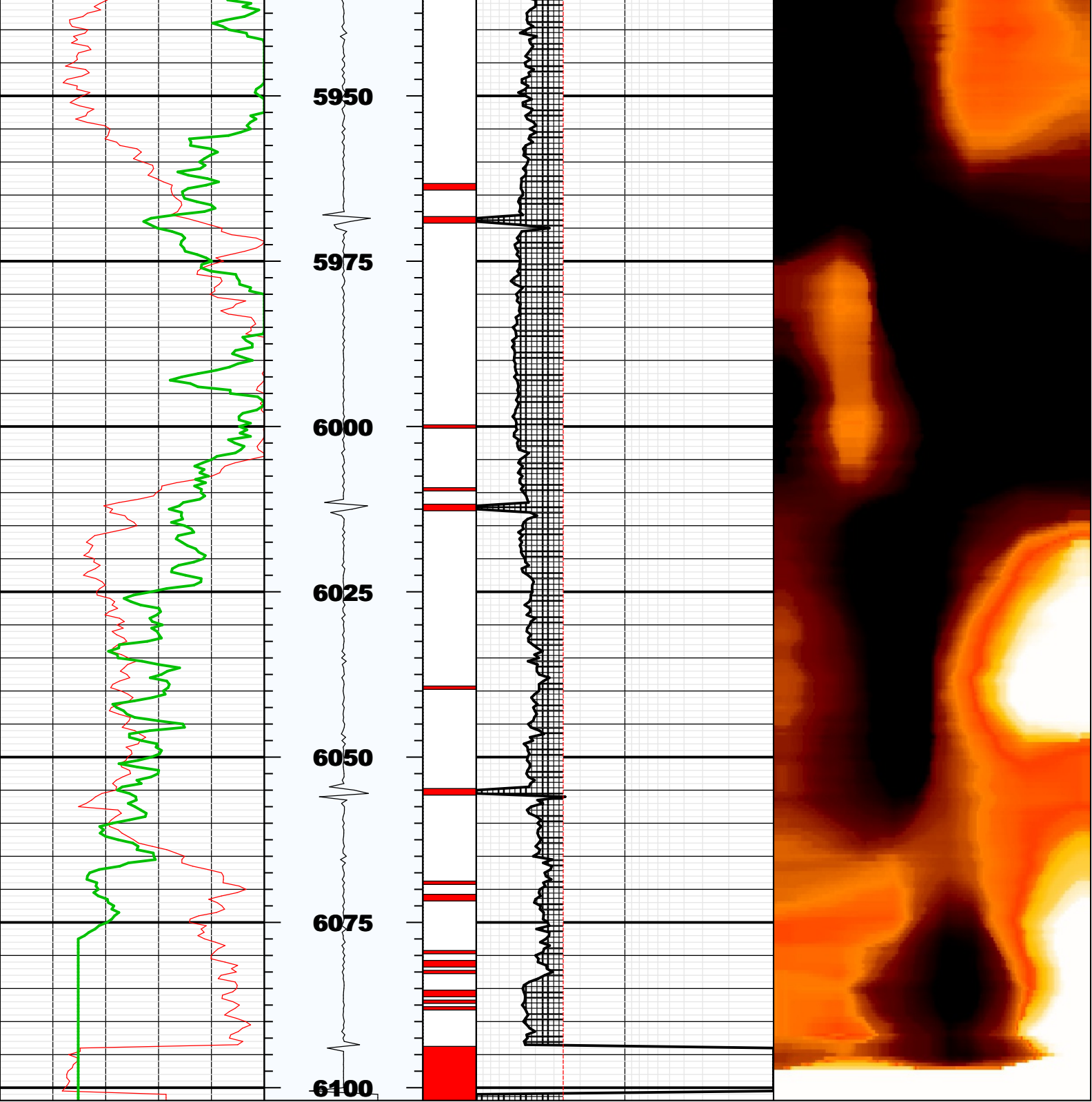
BS	8.50000	IN	Bit Size
CASG	N/A		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	190.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	50	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	33.86500	US	Window Begin Time
WINE	73.86501	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	0.30000	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

