

Company: Noble Energy Inc

Well: Brook LC28-74-1AHNC
Field: Wildcat
County: Weld State: Colorado

County: Weld		USI-LITE				
Field: Wildcat						
Location: SWSE Sec. 28 T9N R59W						
Well: Brook LC28-74-1AHNC						
Company: Noble Energy Inc						
LOCATION		Permanent Datum: Log Measured From: Drilling Measured From:	GL KB KB	Elev: K.B. 4867.0 F G.L. 4843.0 F D.F. 4866.0 F		
API Serial No. 20-Aug-2014						
05-123-38844-0000	Section 28				Township 9N	Range 59W
Logging Date	Run Number	Run1 USIT				
Depth Driller	10474.0 F					
Schlumberger Depth	10474.0 F					
Bottom Log Interval	6238.0 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	10474.0 F					
Casing Size	7.00 IN					
Weight	26.00 LB/F					
Grade	P110					
From	0.0 F					
To	6487.0 F					
Max Recorded Temp	217.0					
Logger on bottom (date)	20-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: 12000.00000

DISCLAIMER

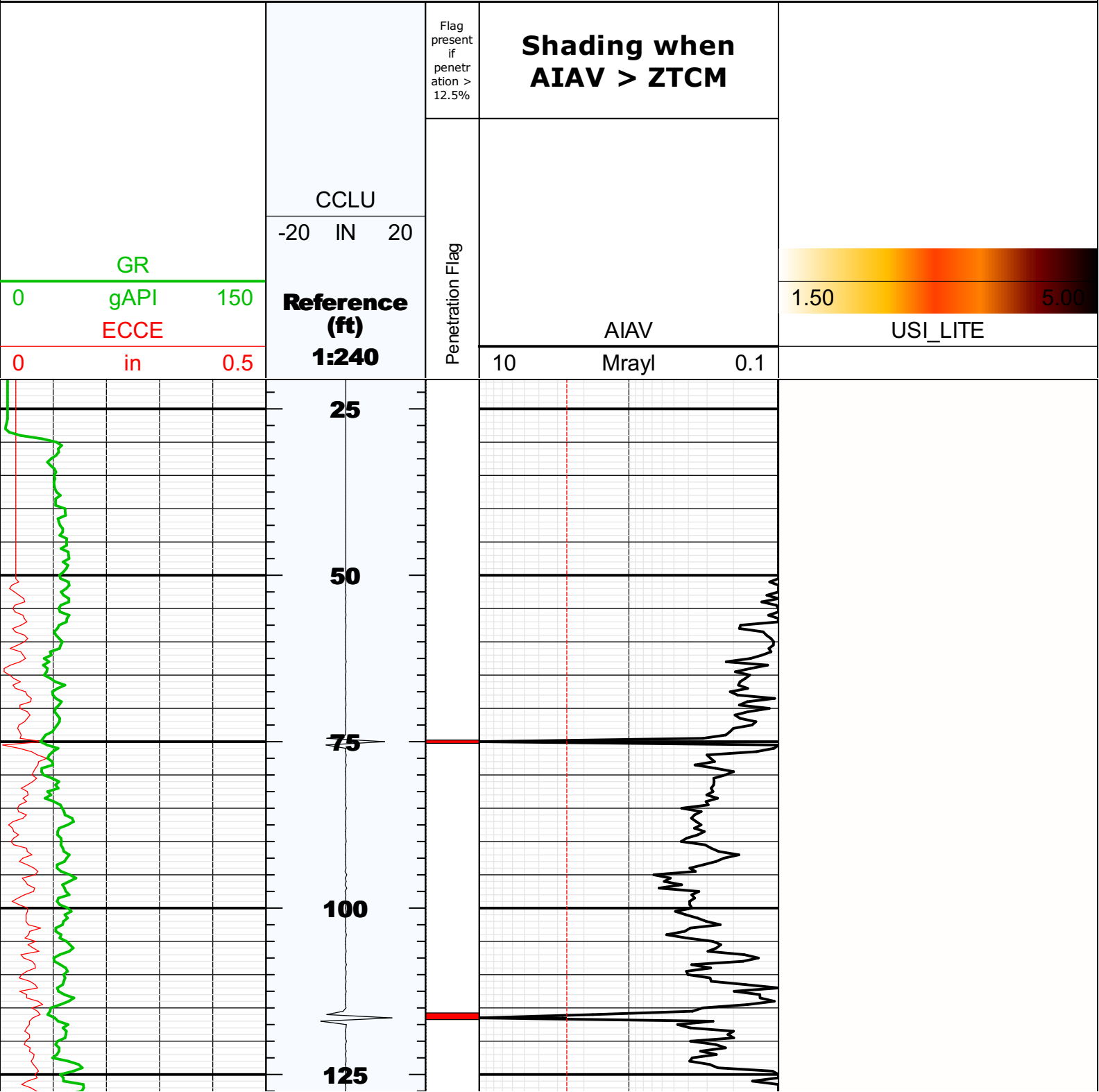
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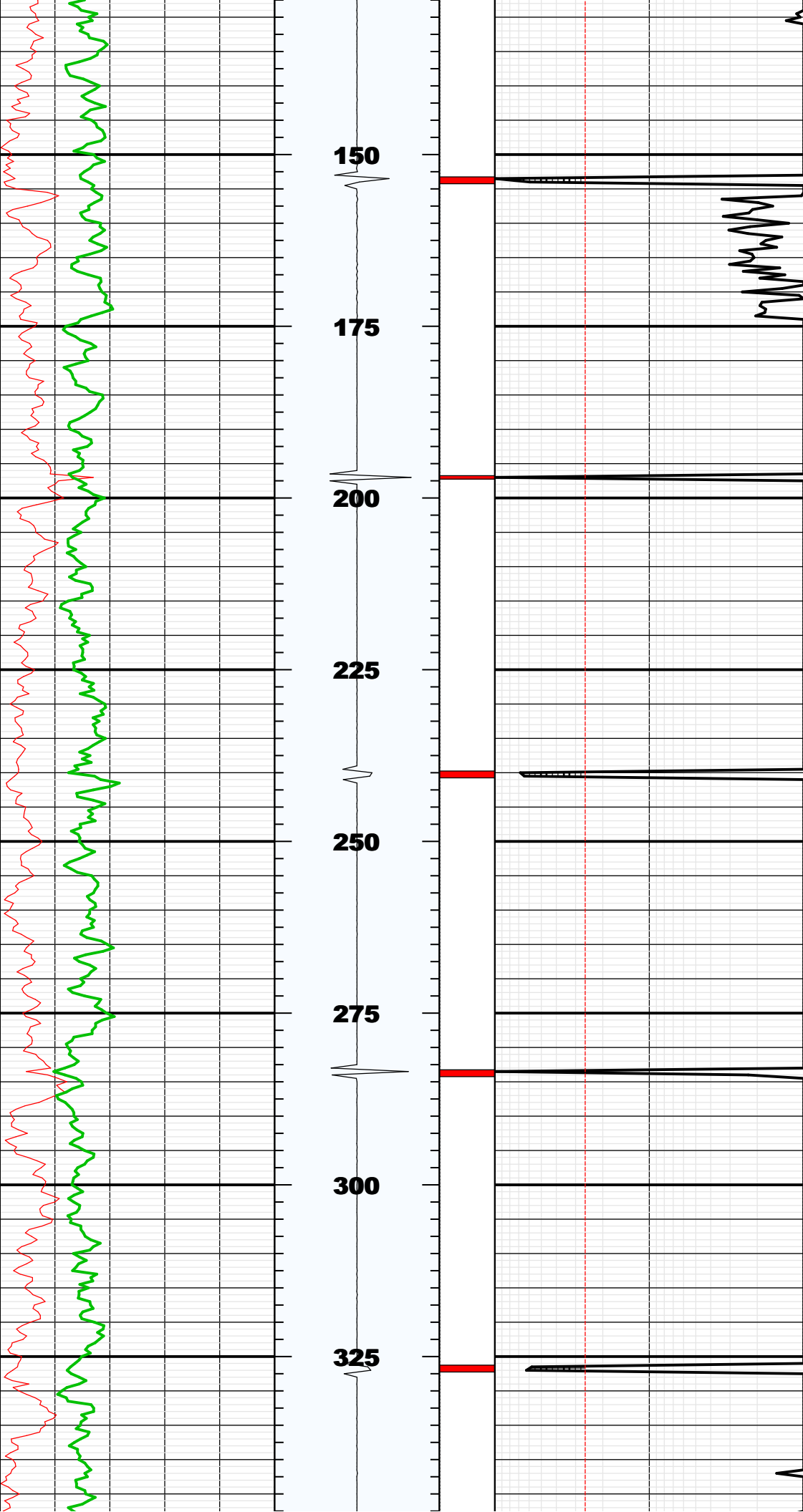
This is the first run in hole
Toolstring run as per tool sketch
13.6 ppg single slurry cement
0 PSI full pass
2500 PSI full pass
Sub would not spin below 6238'

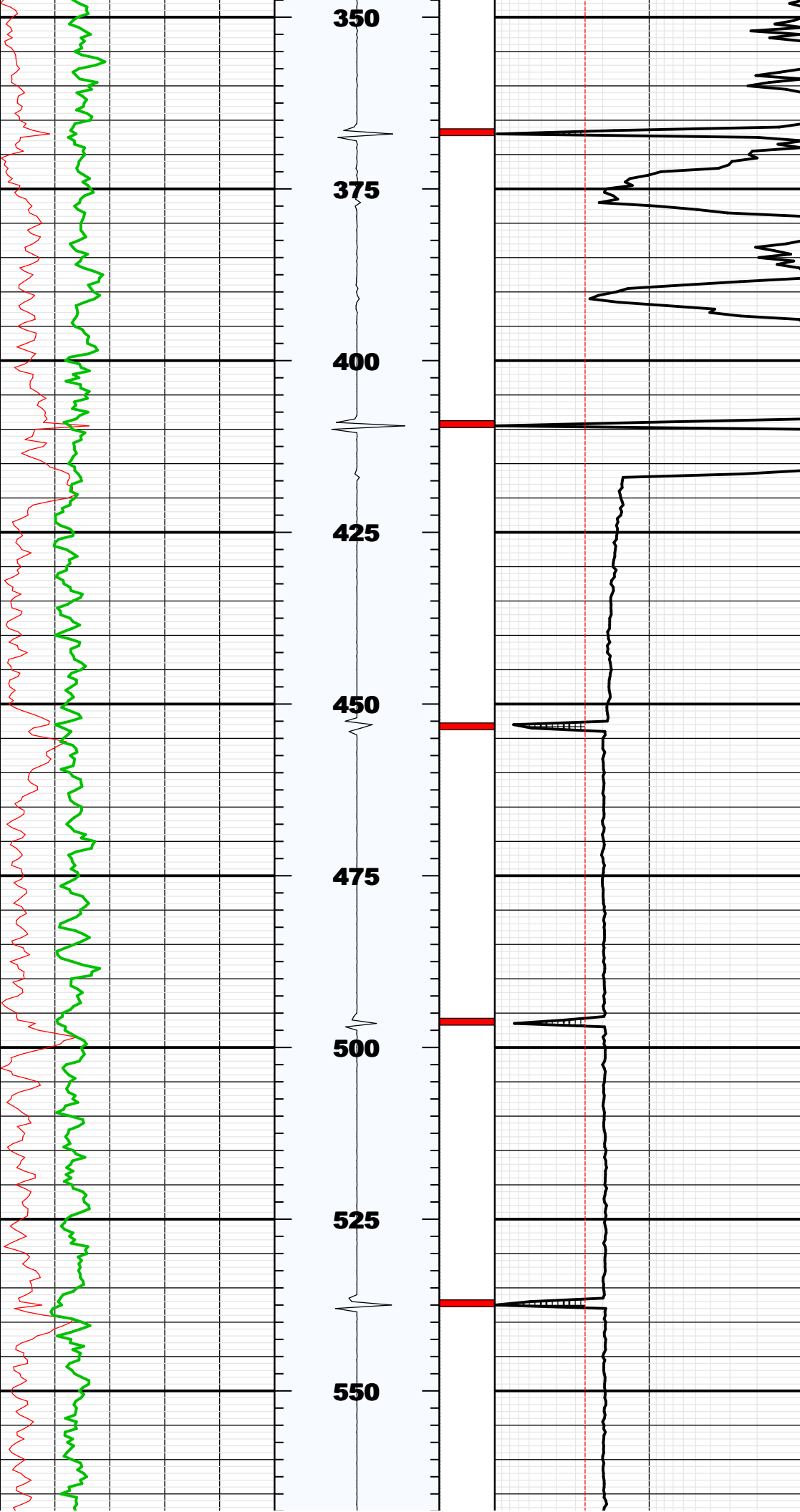
Bottom log temperature 217 degF
Top of cement 1050 ft
Crew Ian Derry Jake Jump

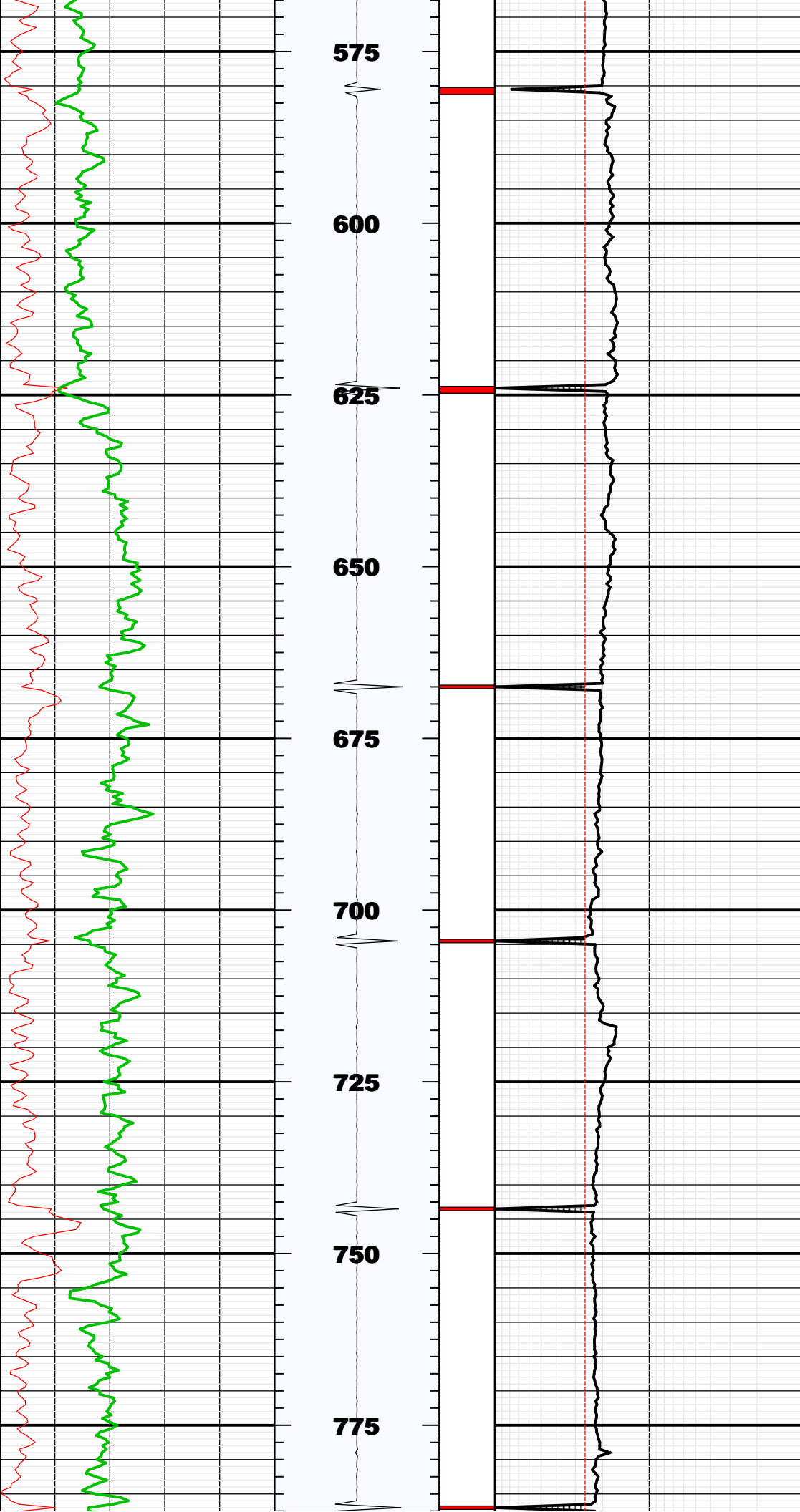
Main Pass

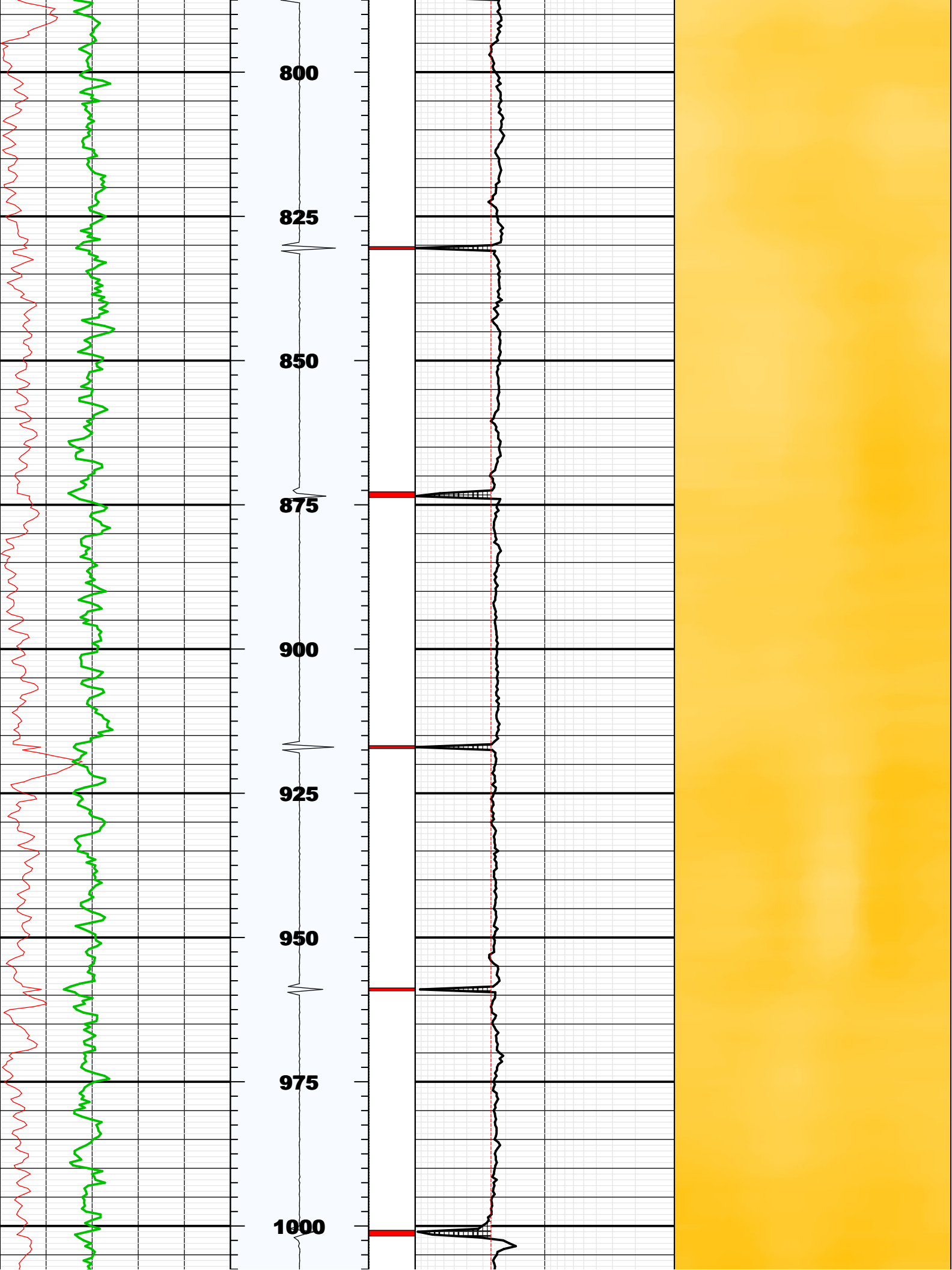
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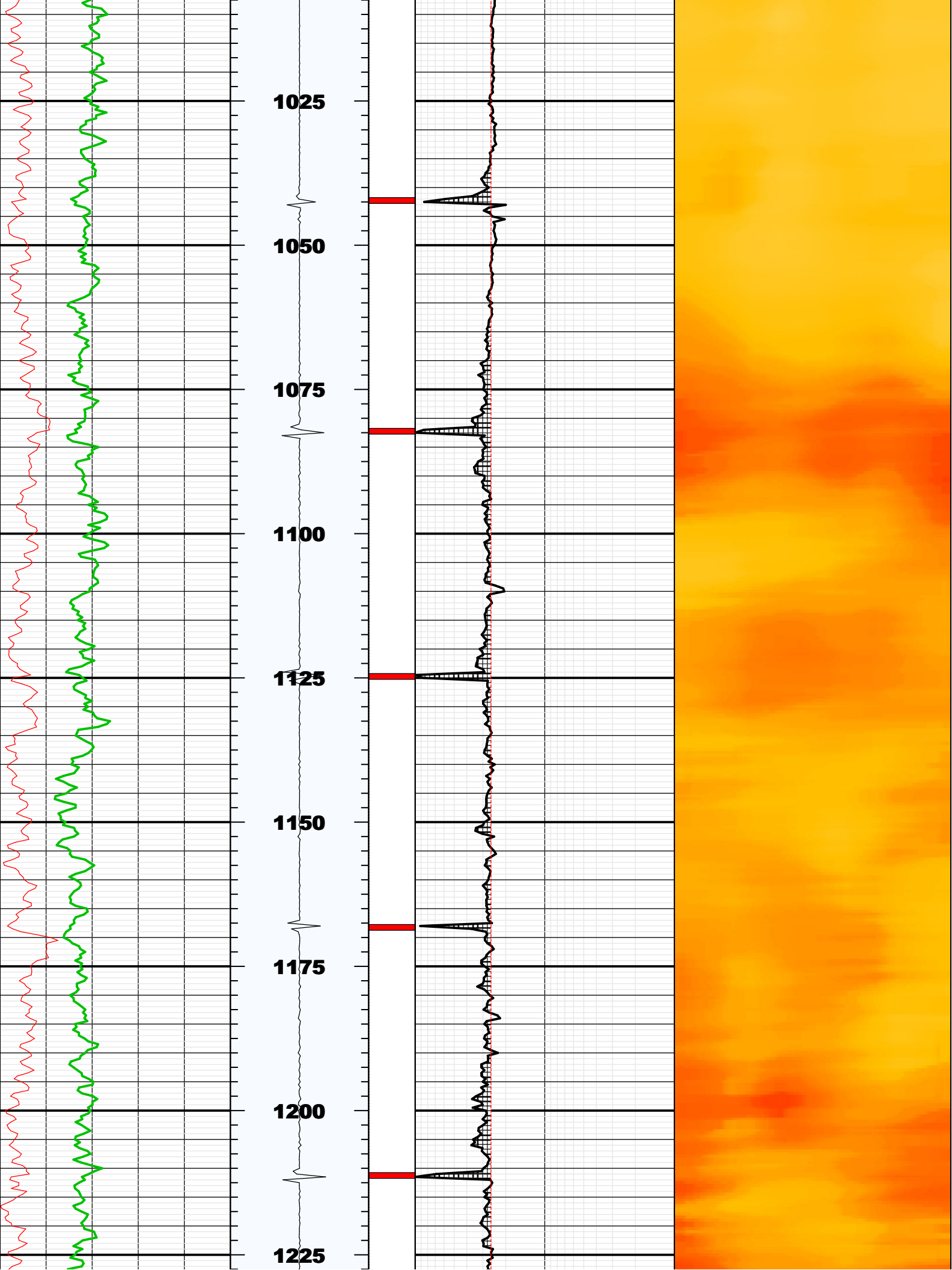


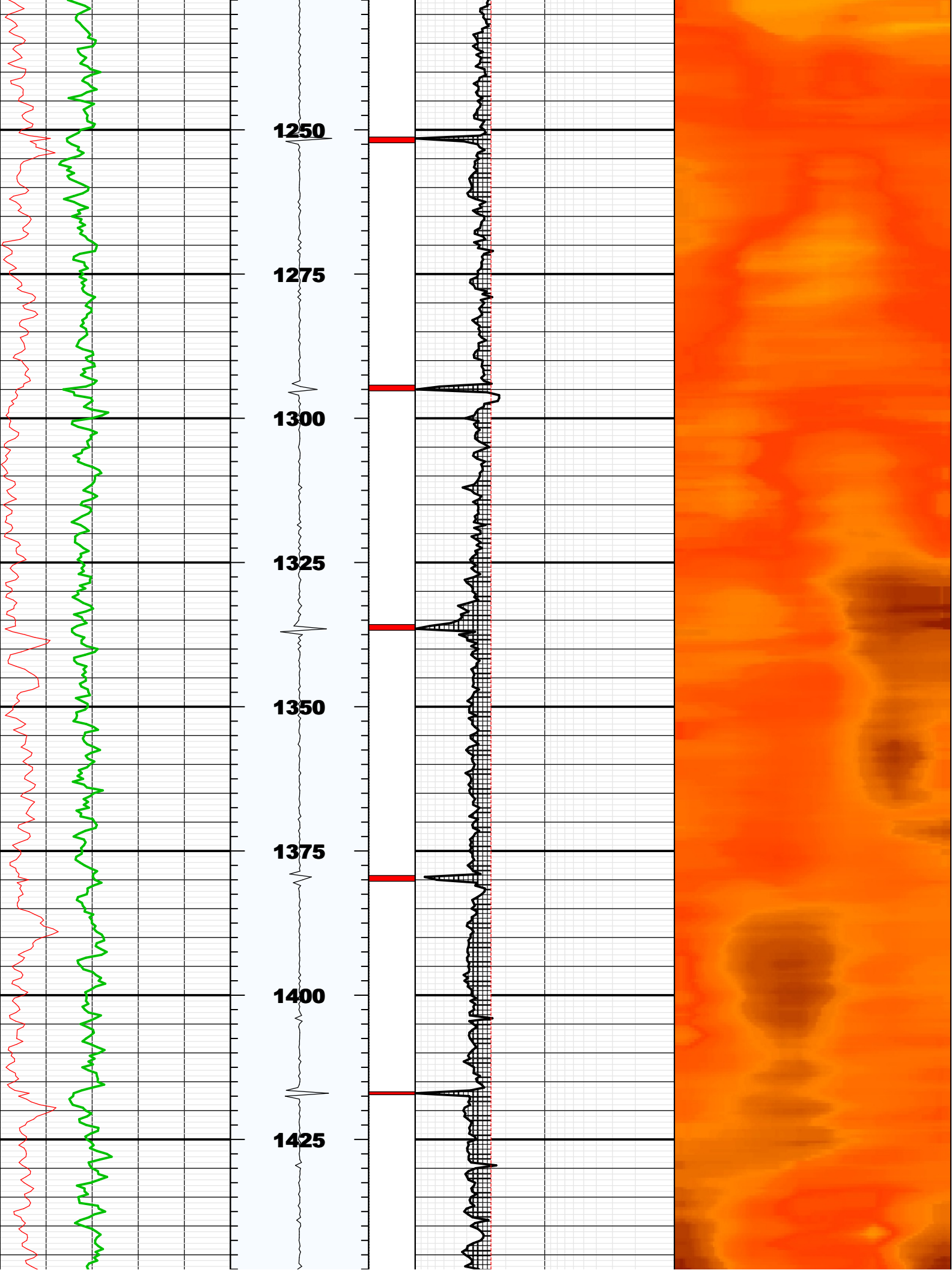


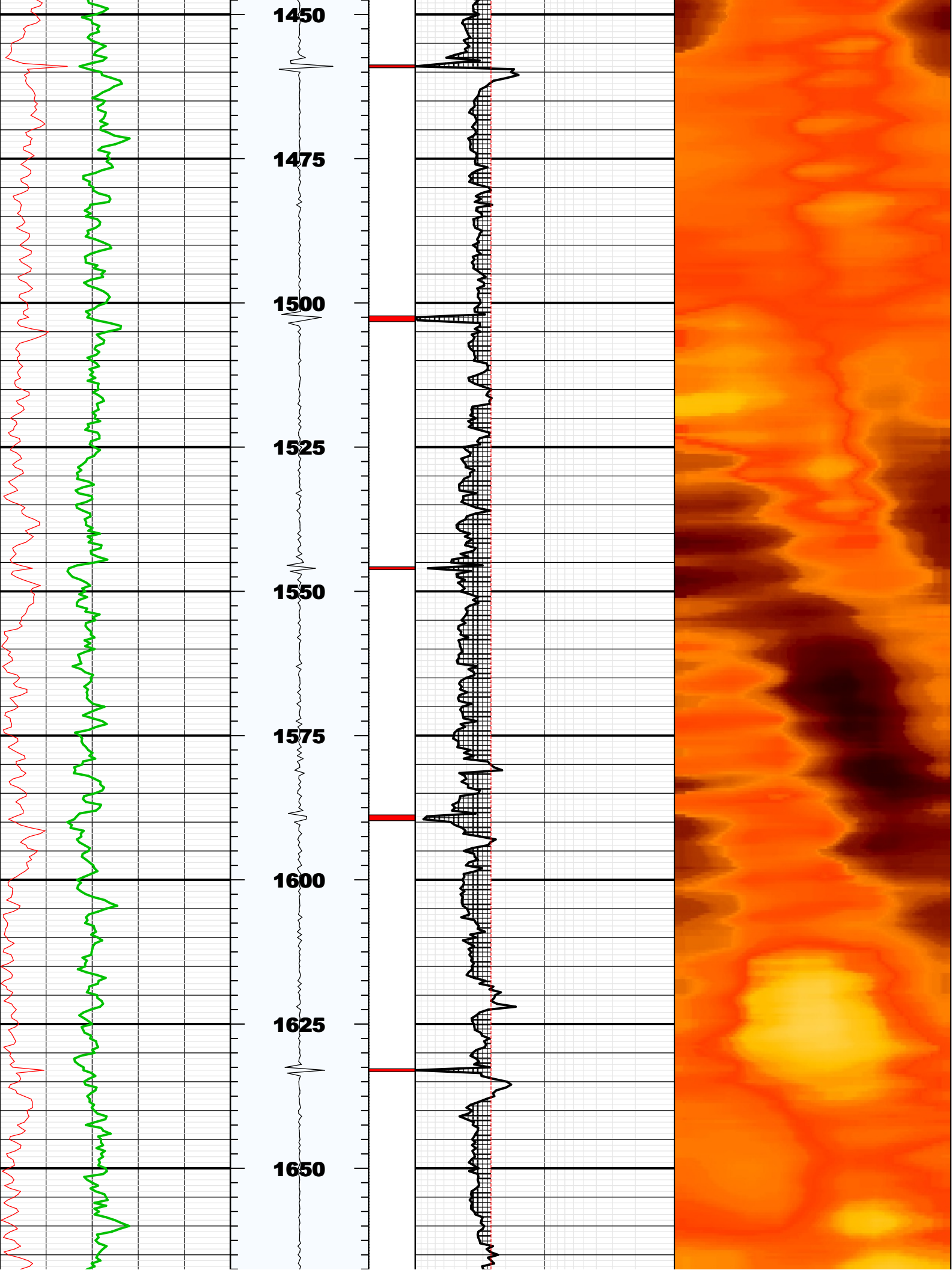


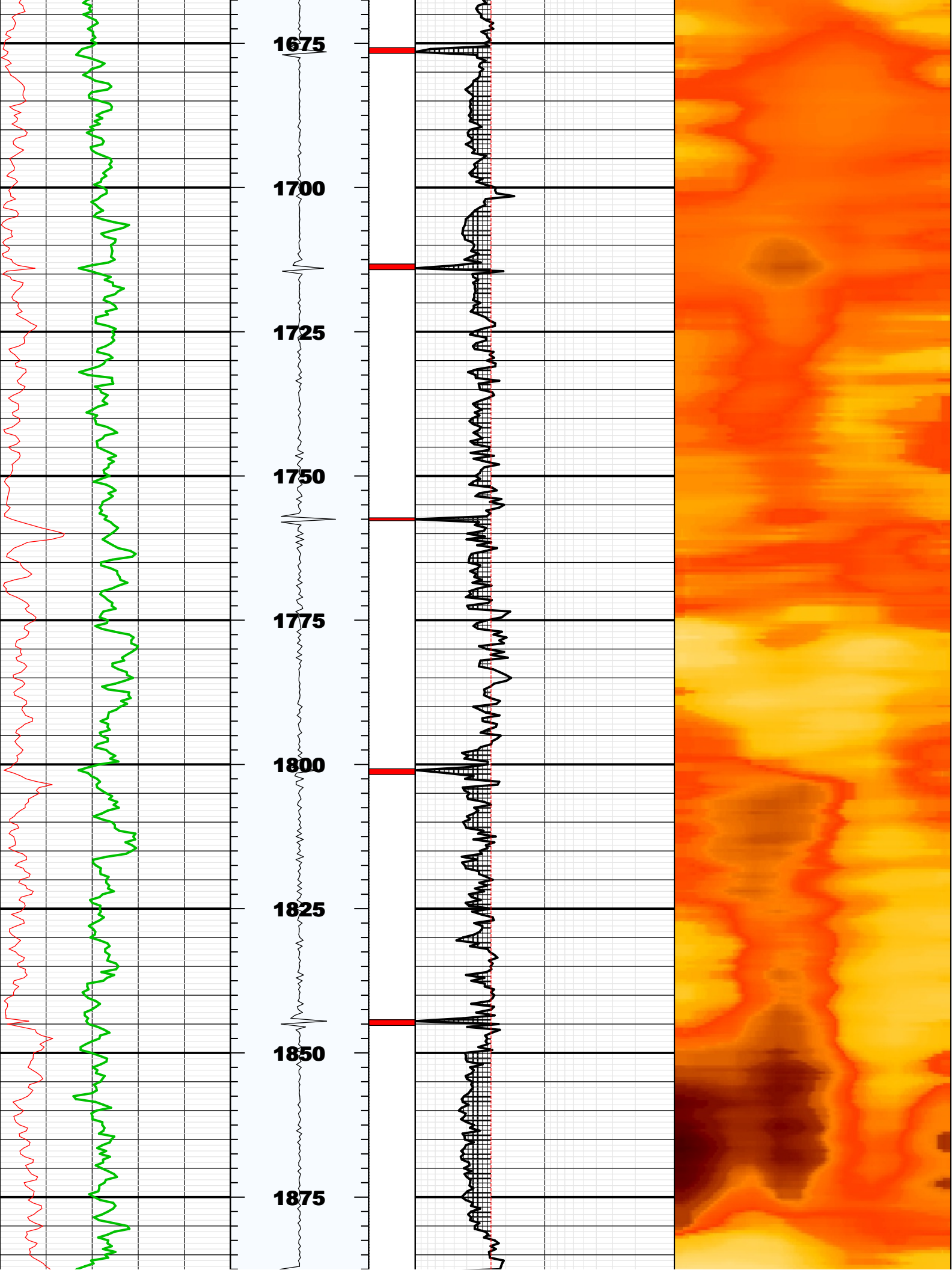


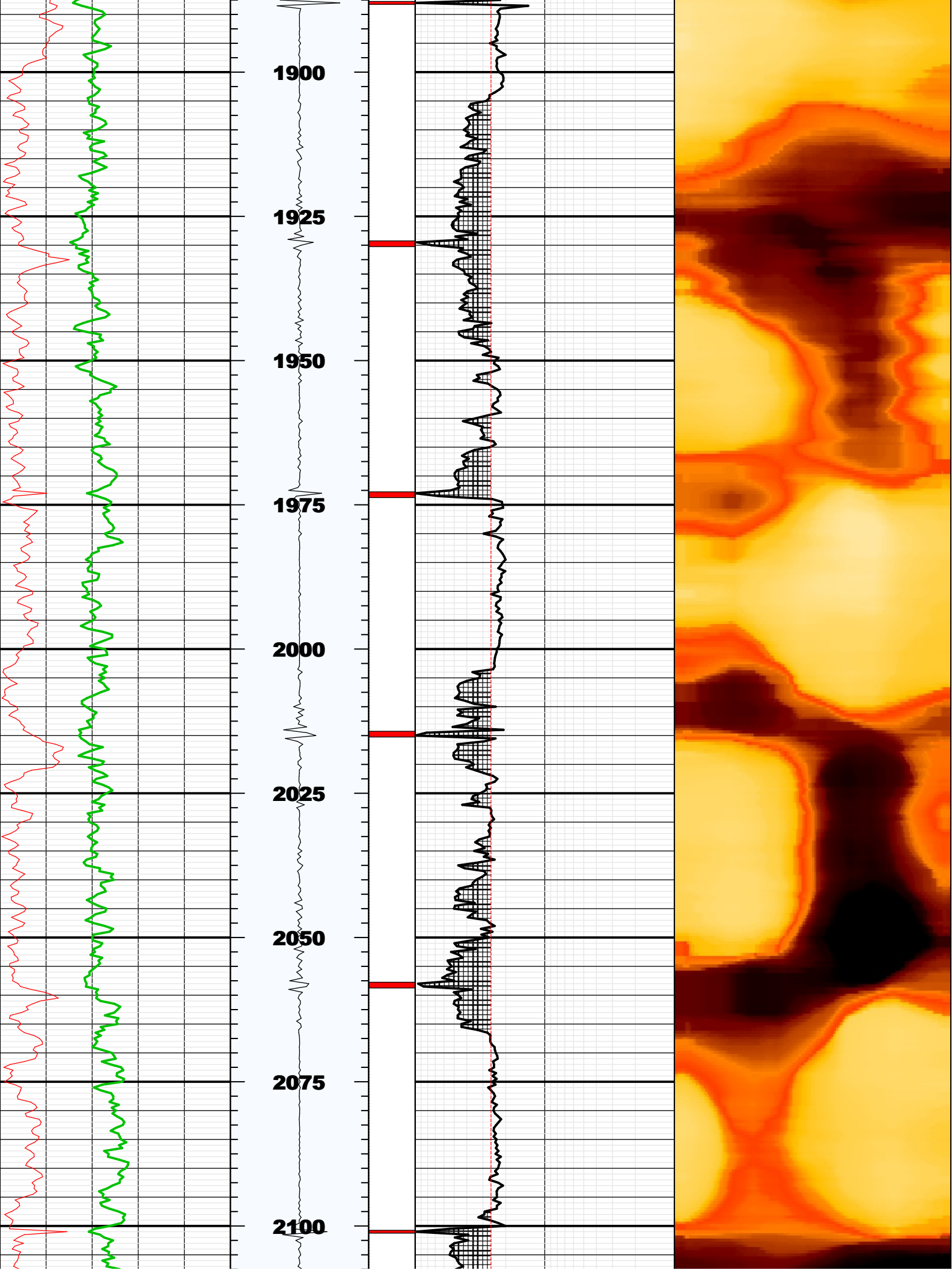


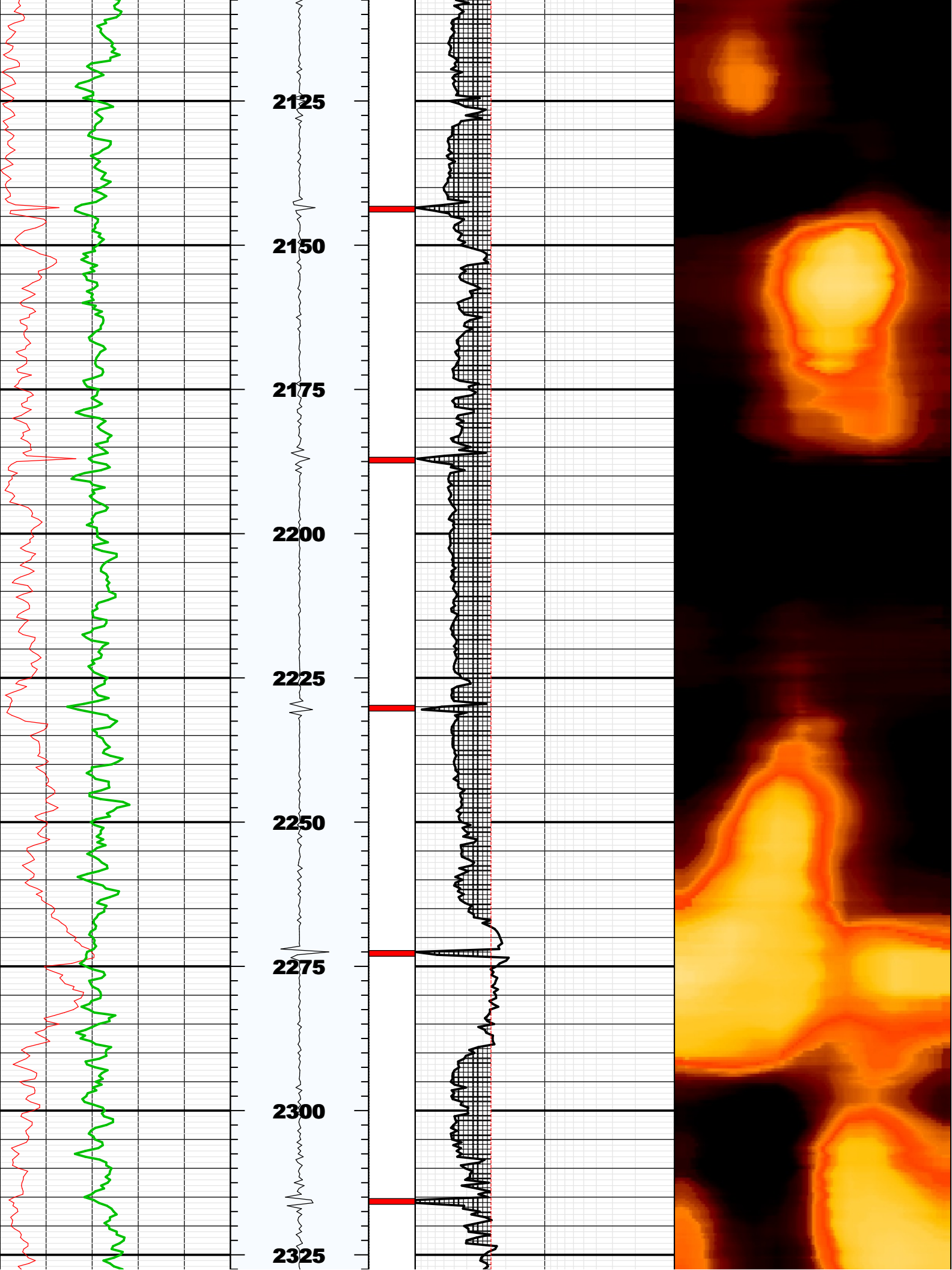


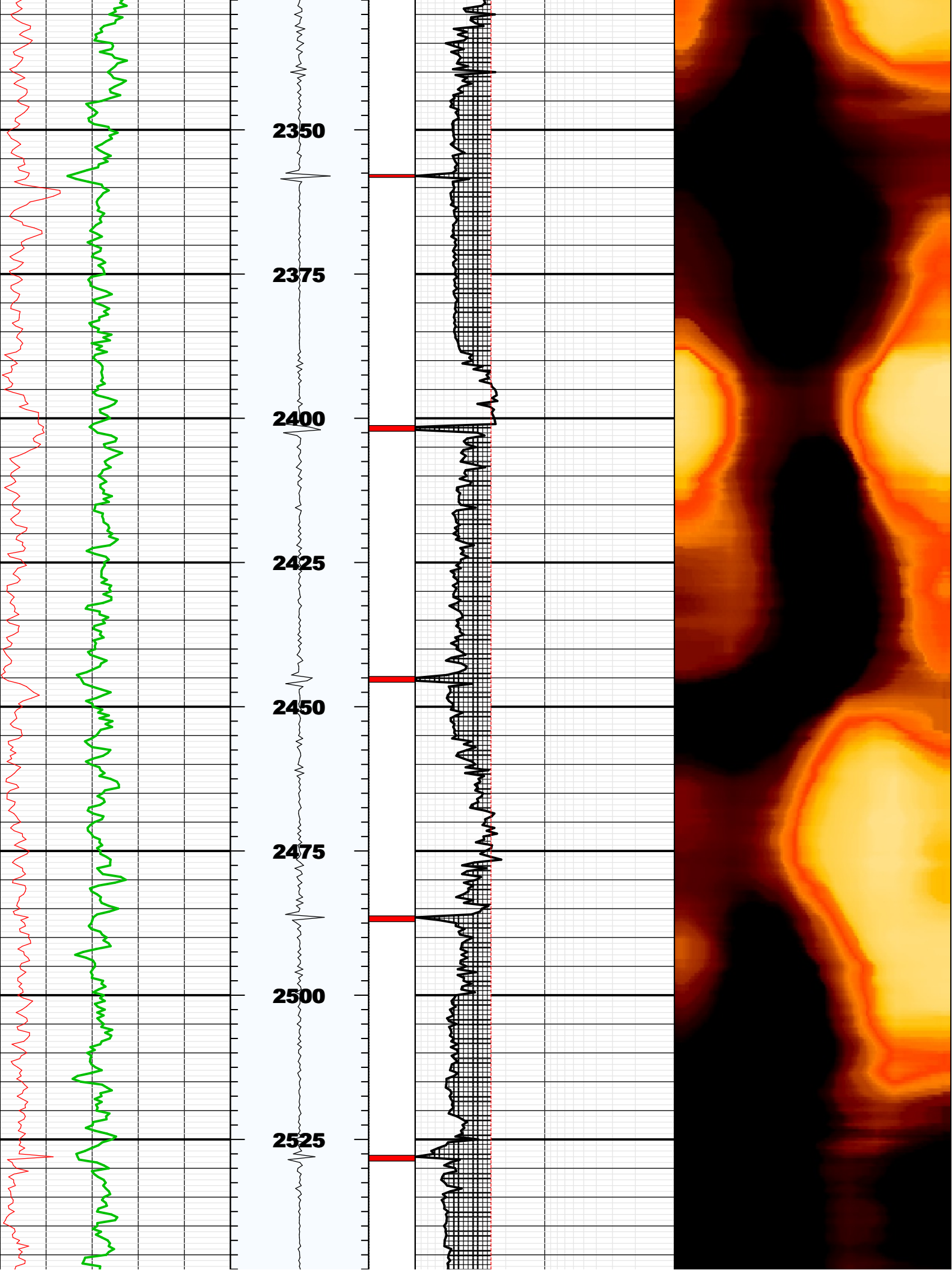


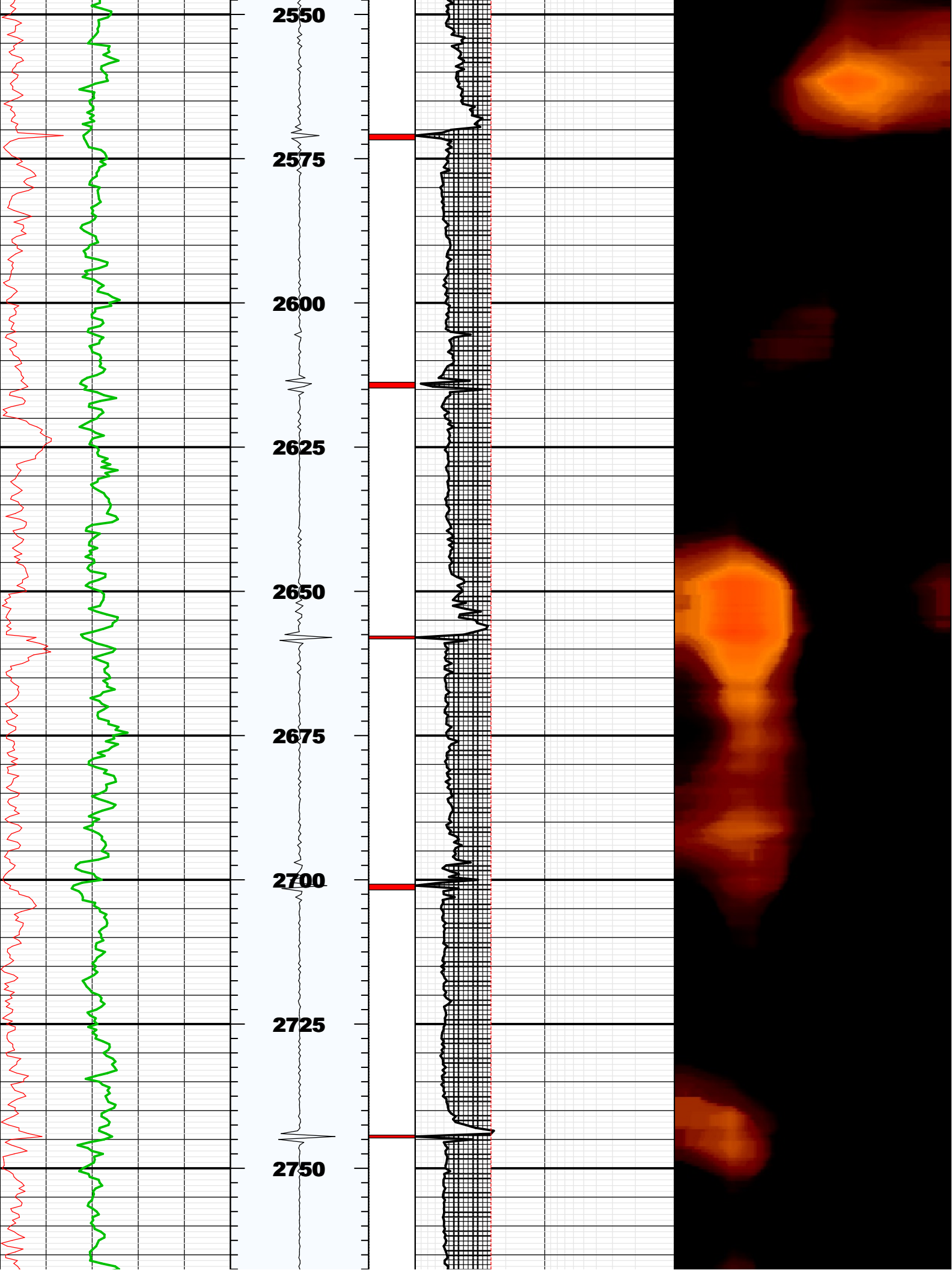


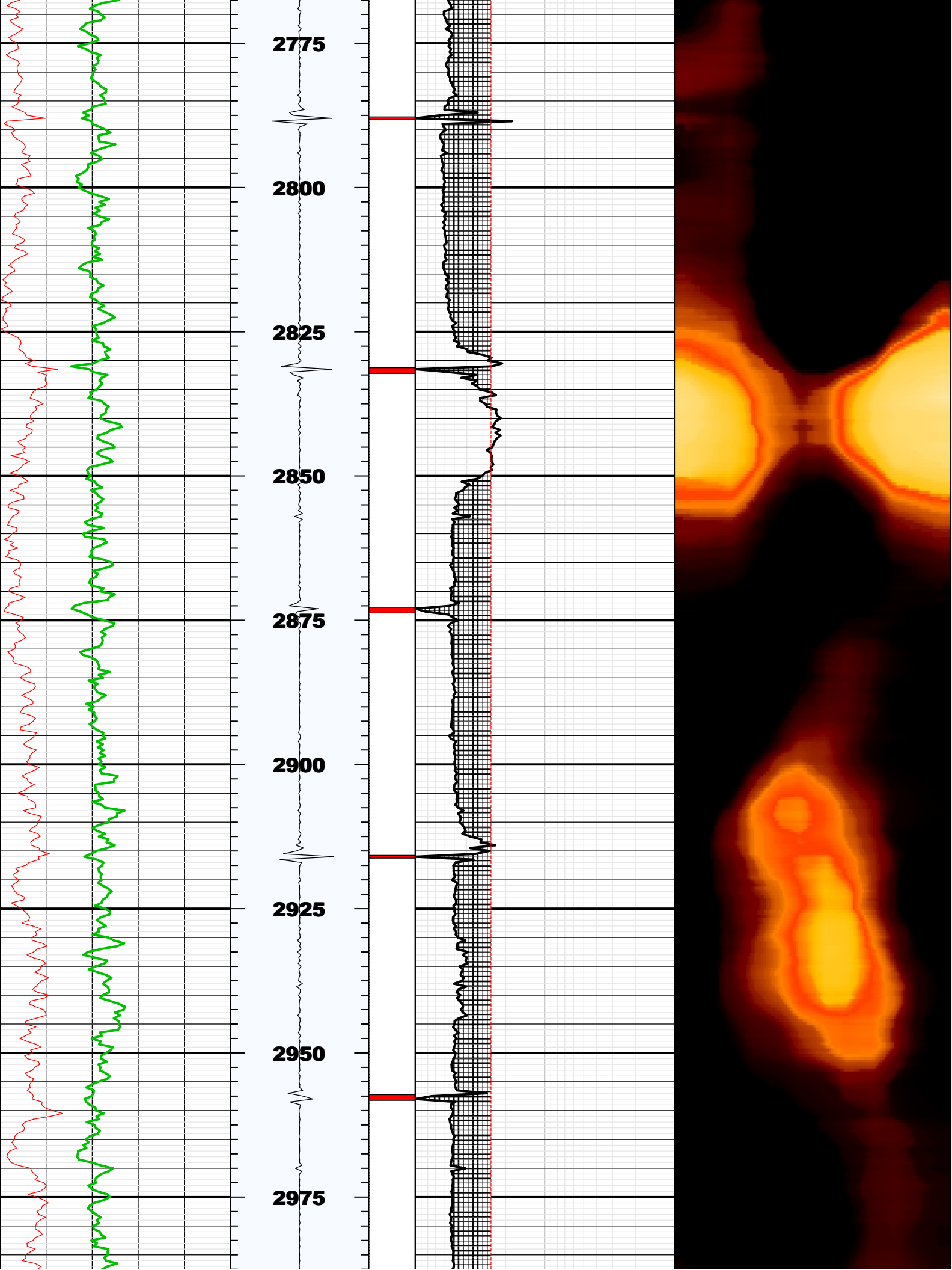


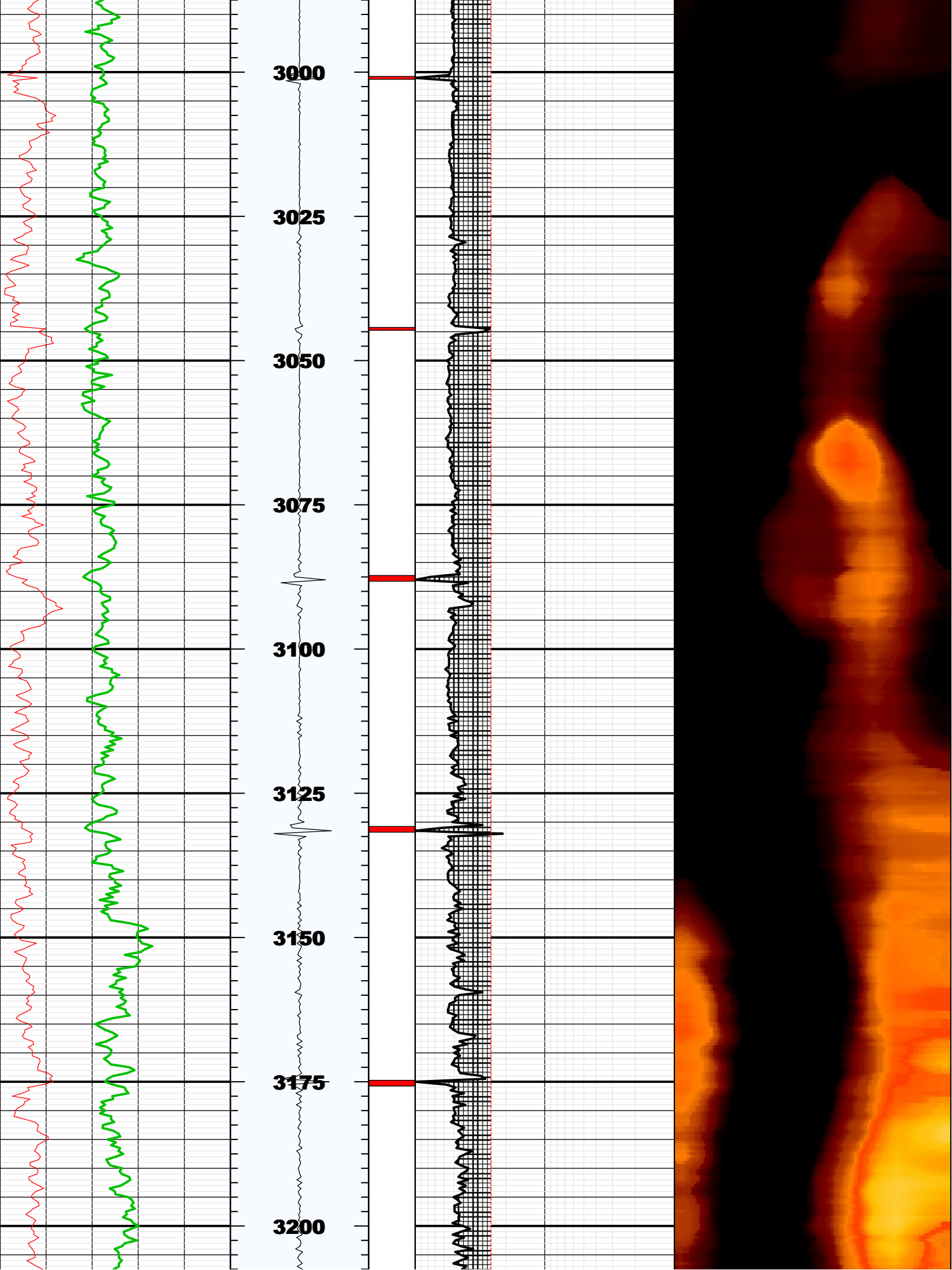


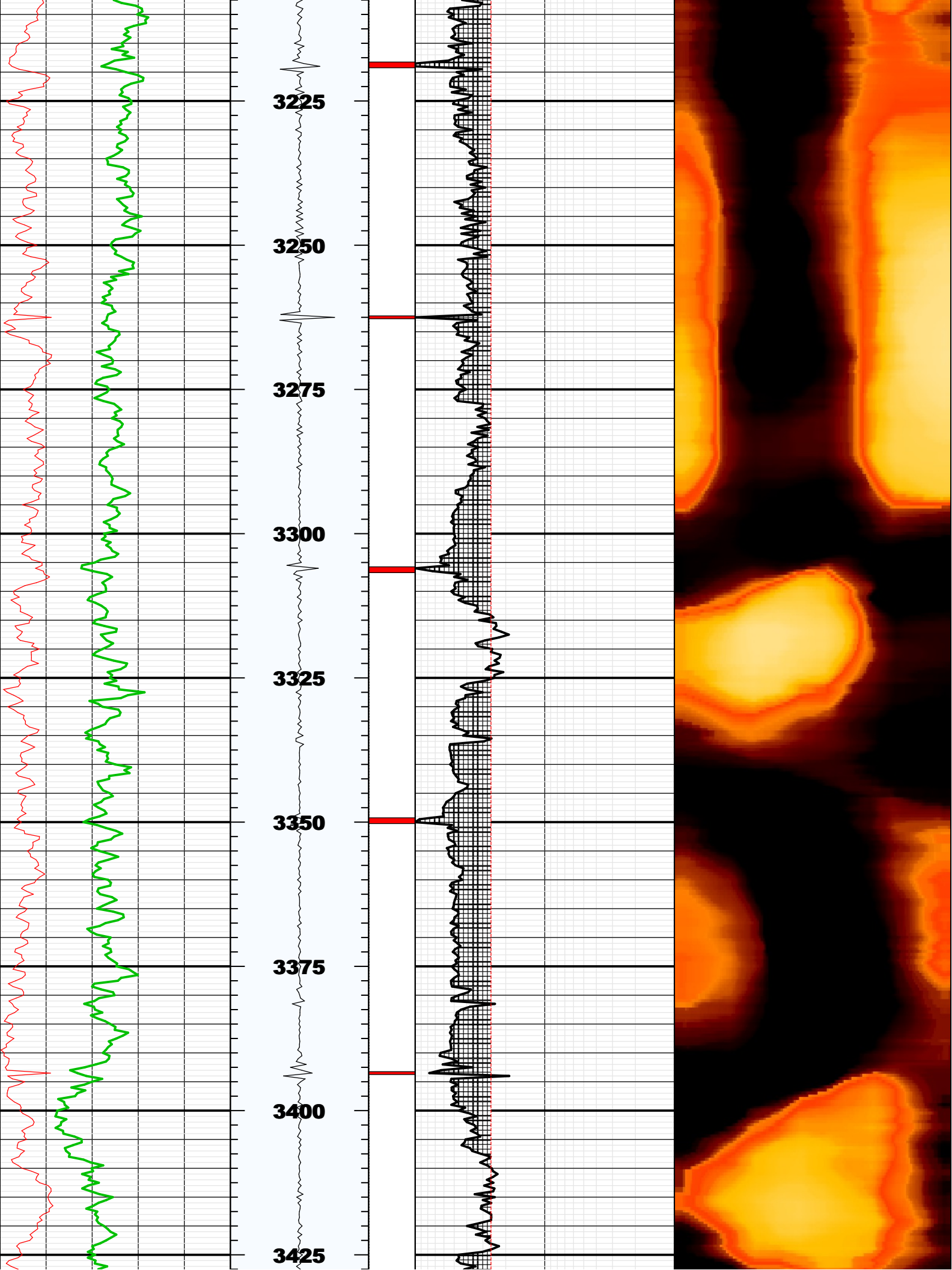


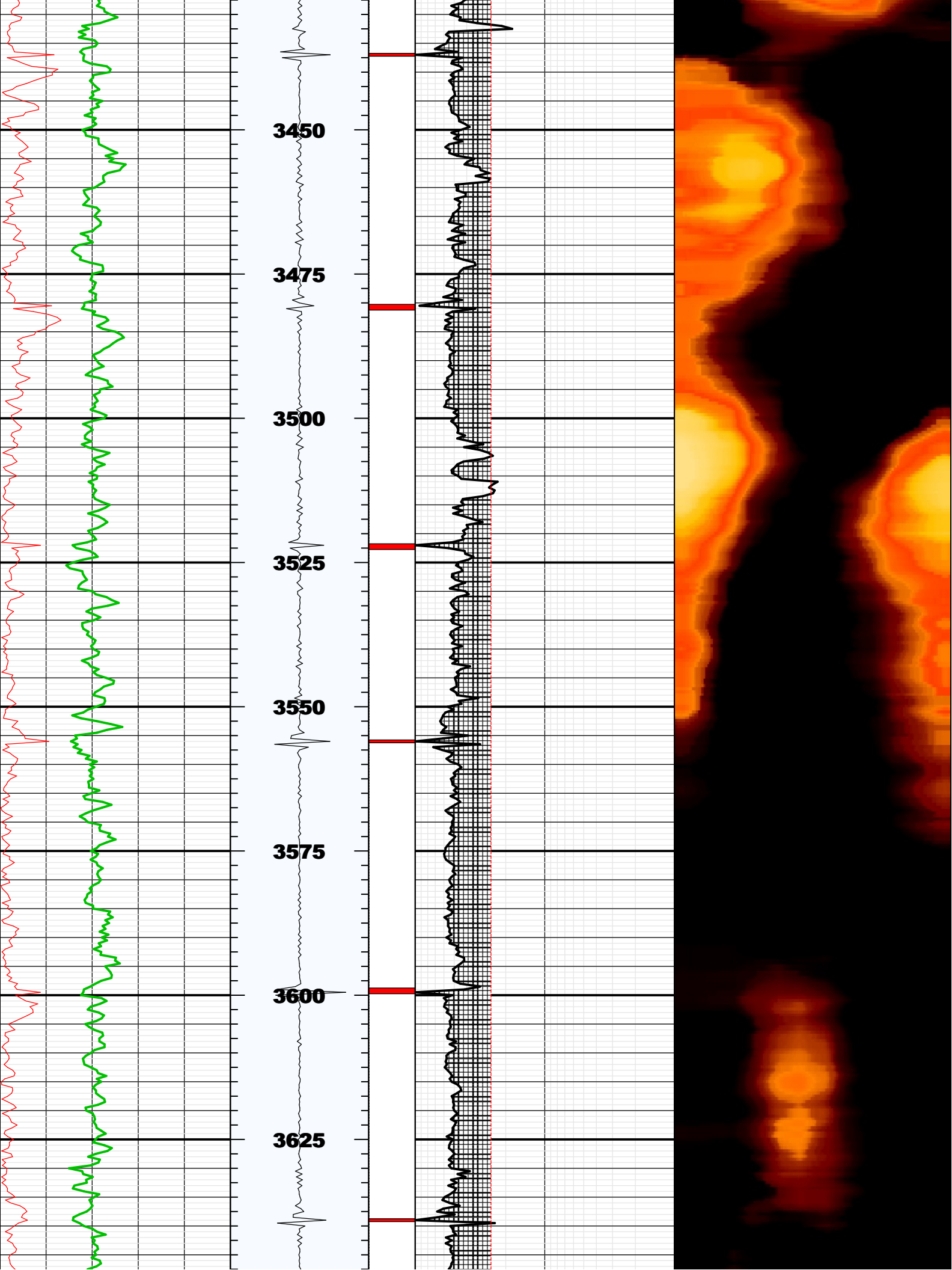


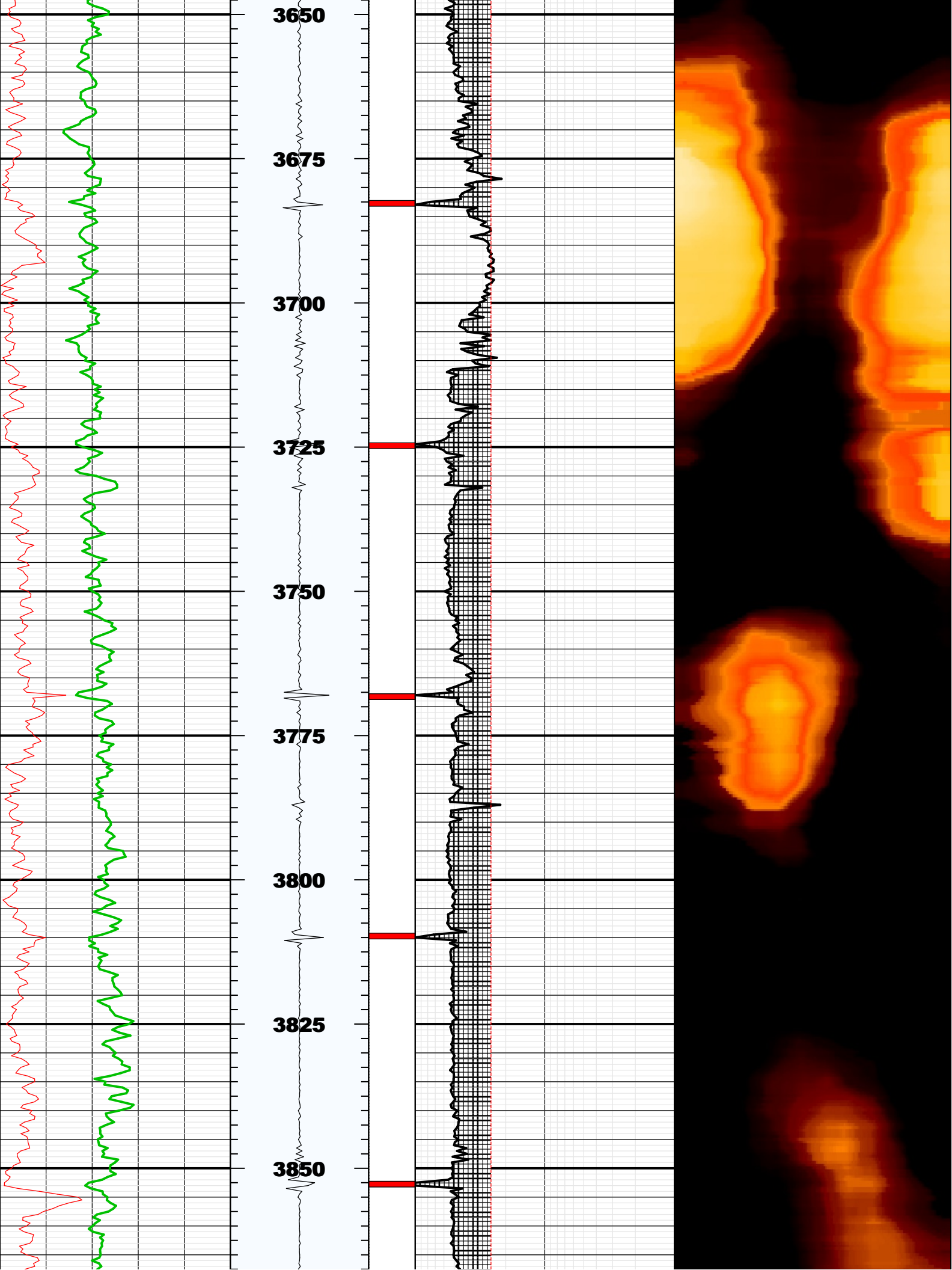


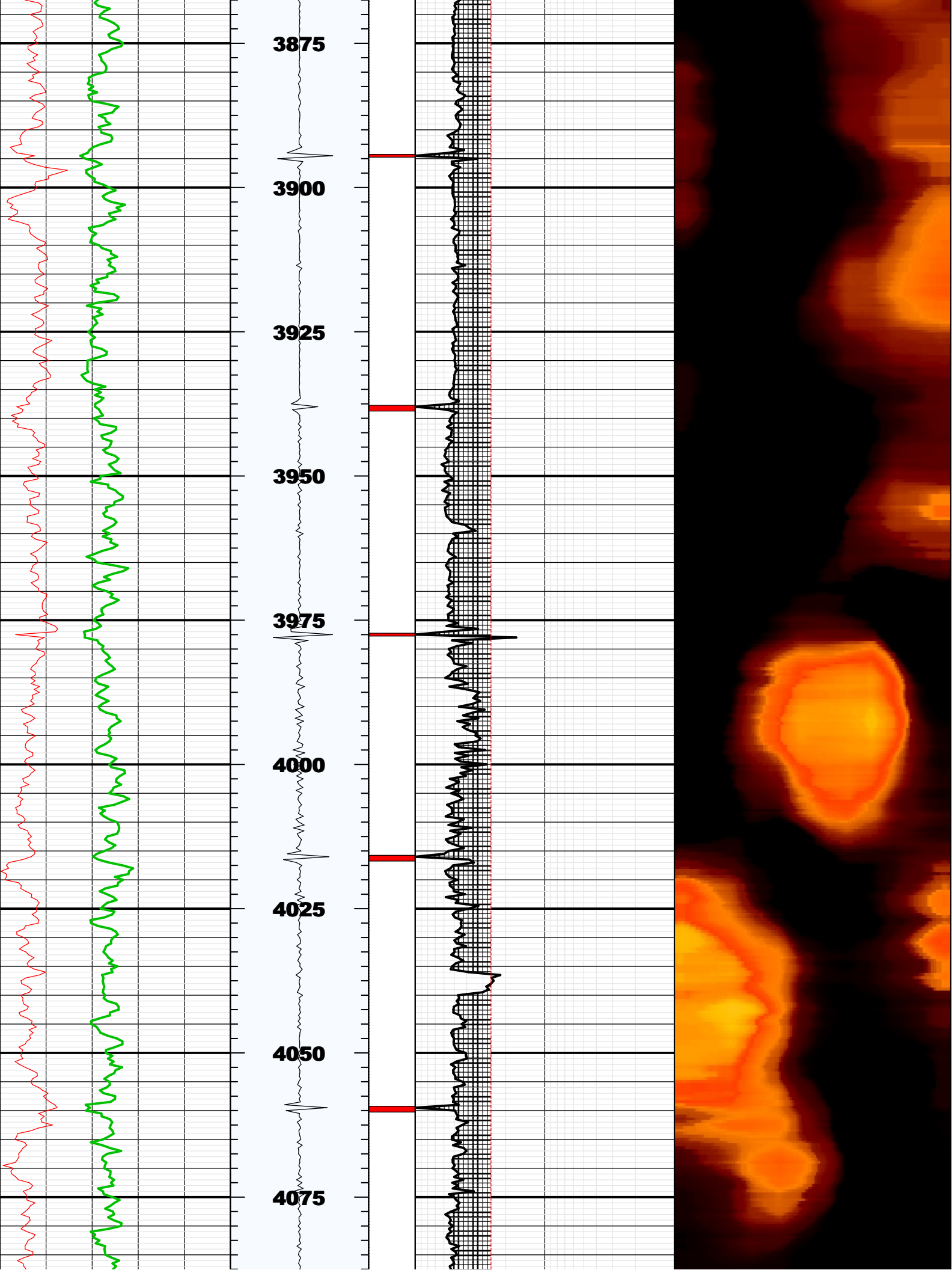


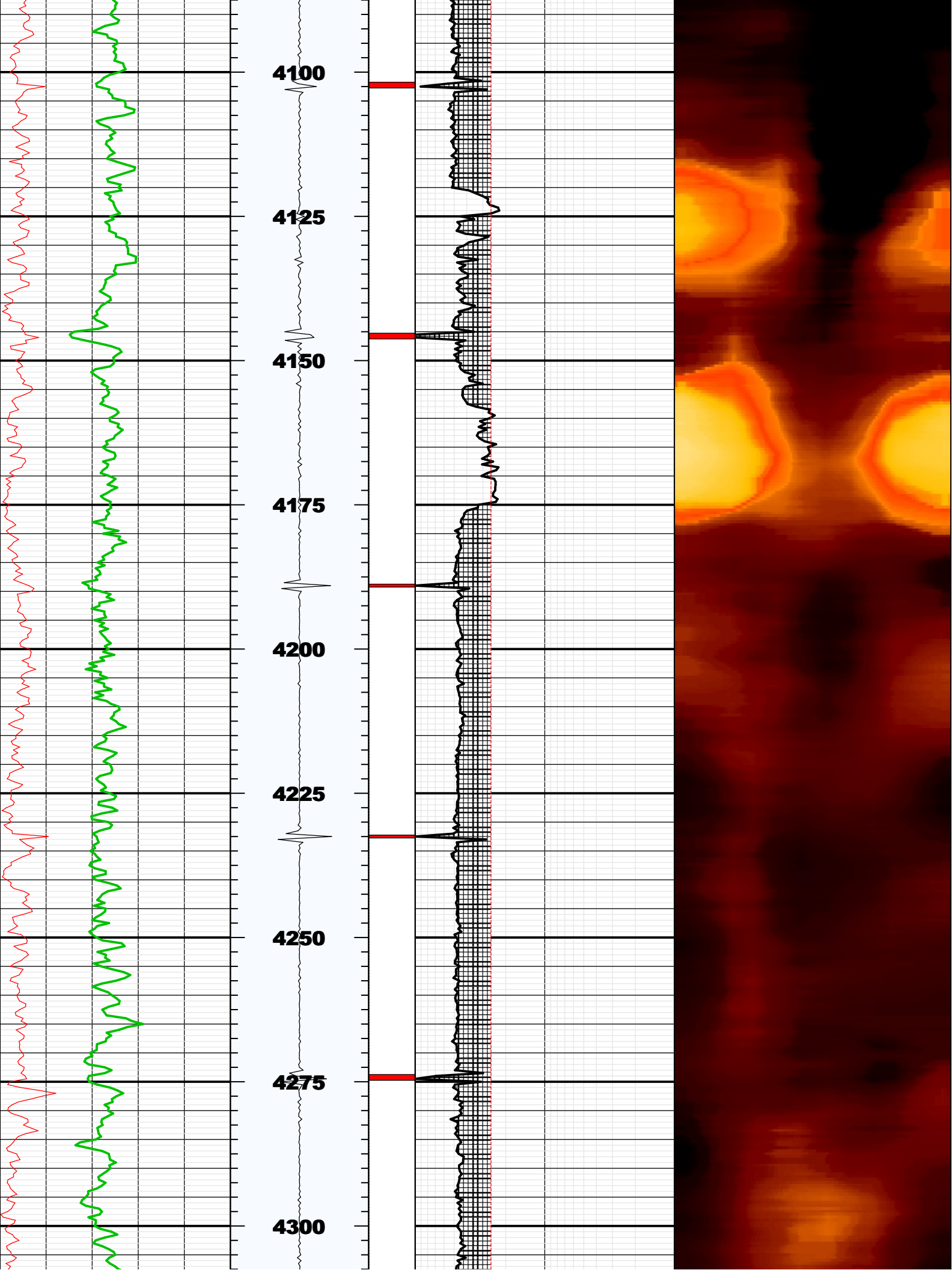


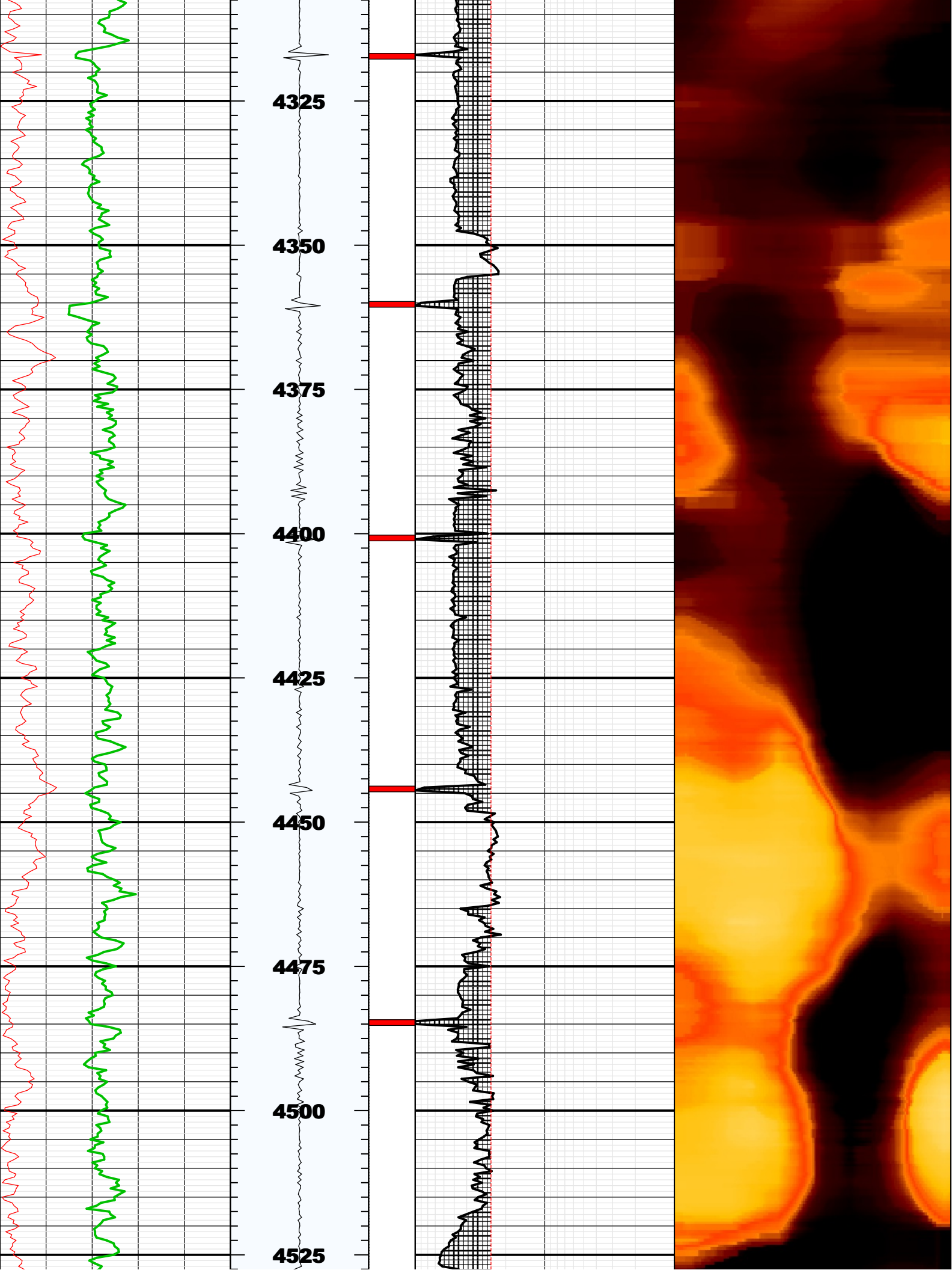


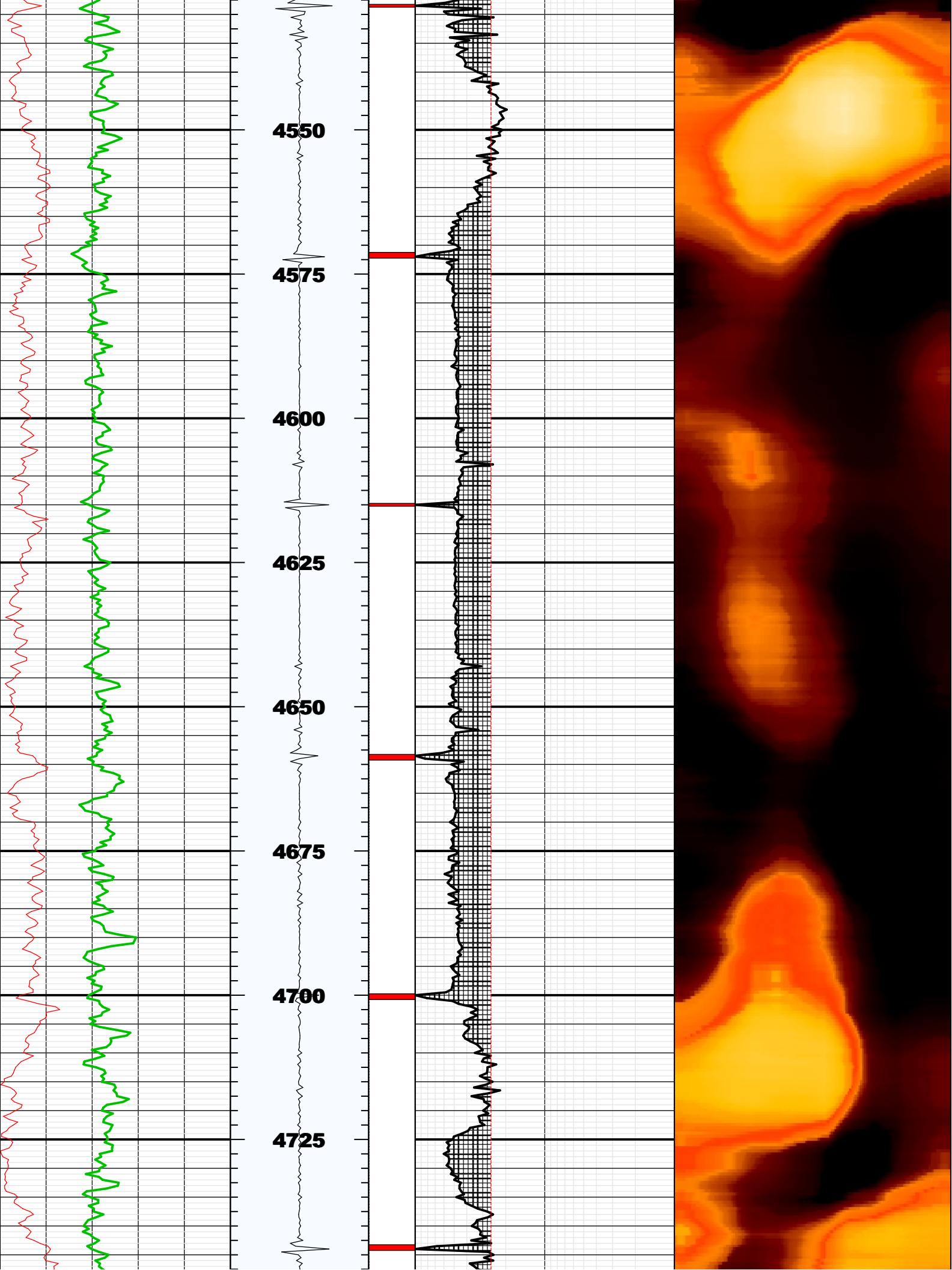


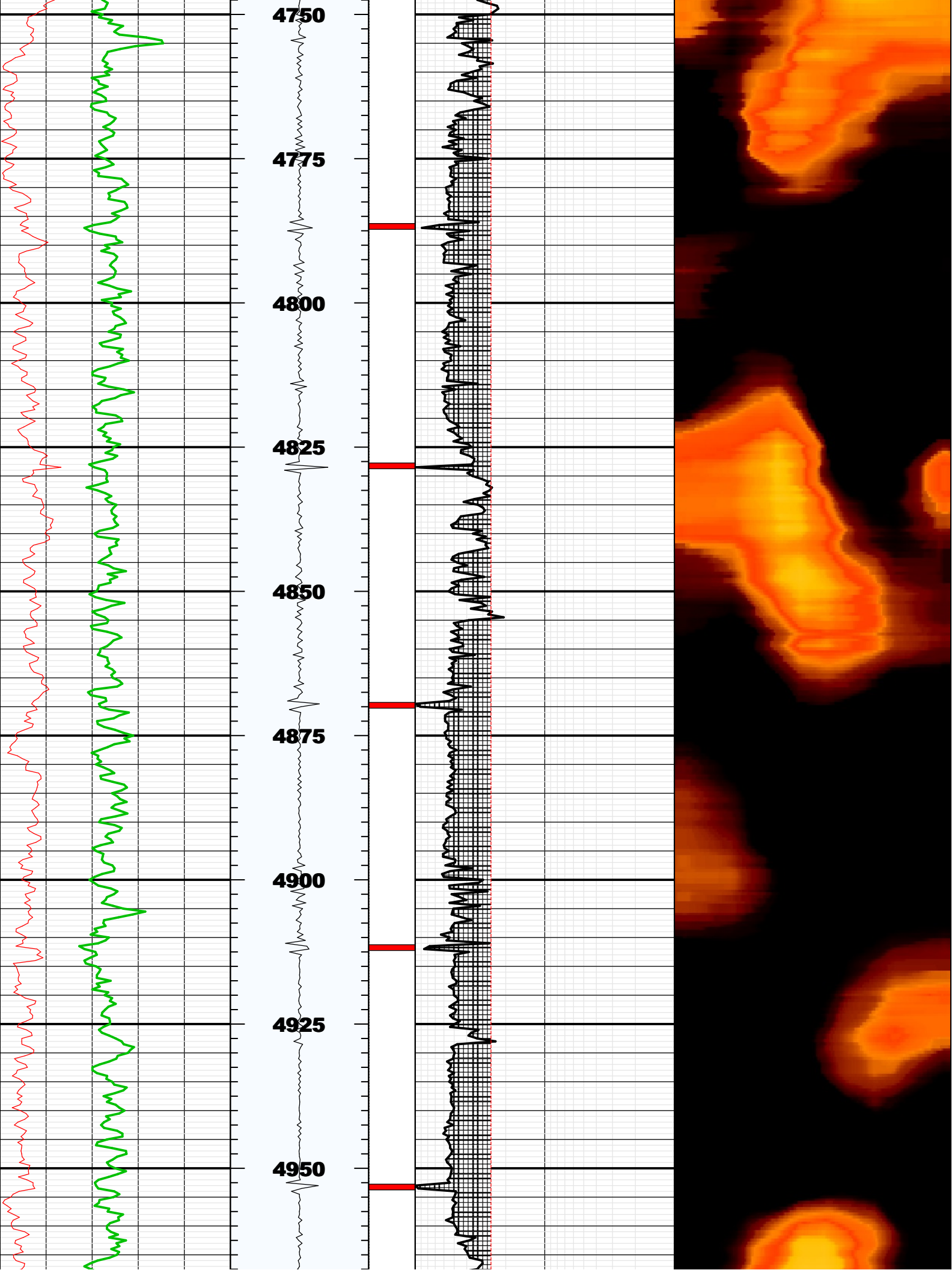


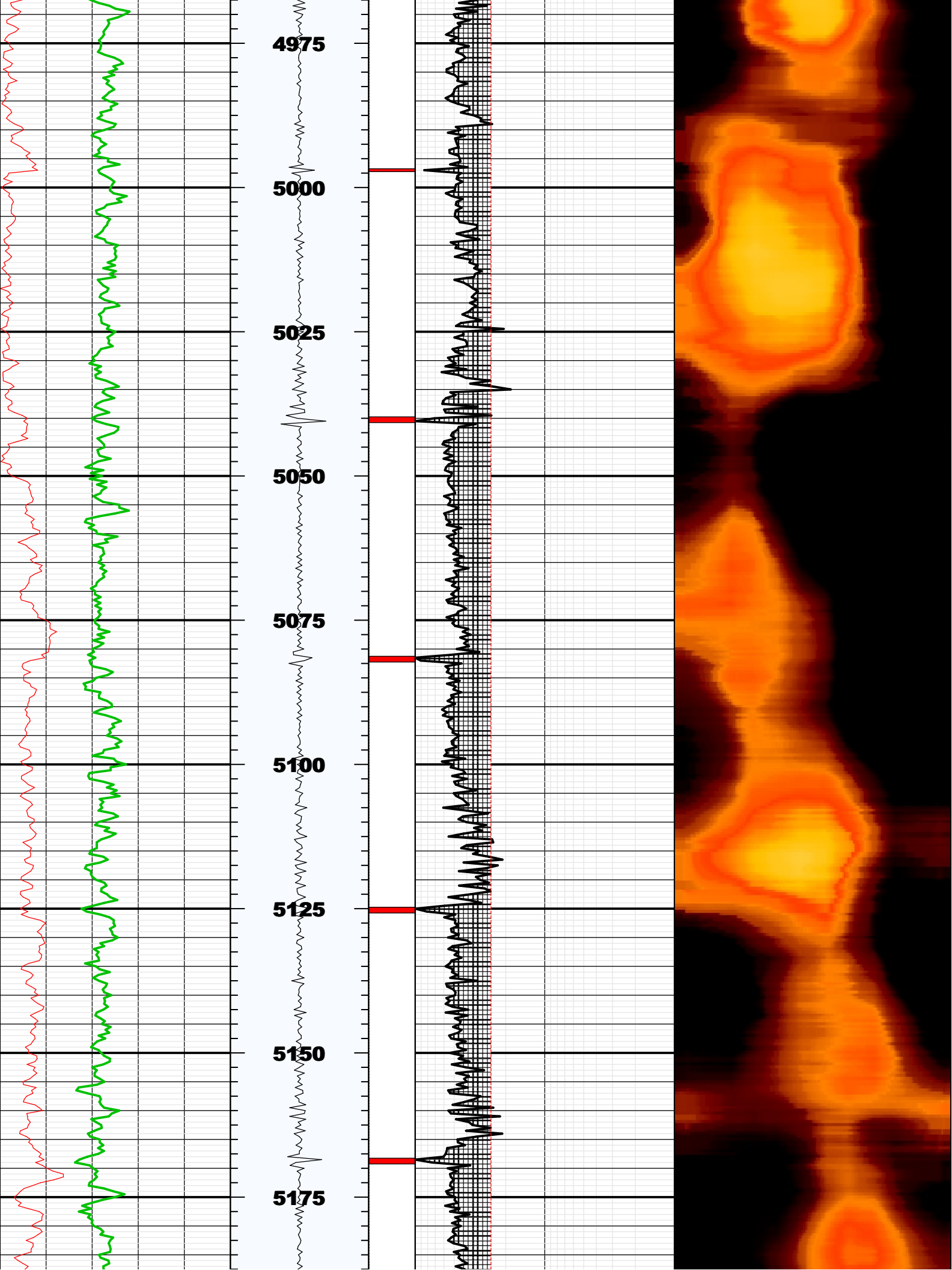


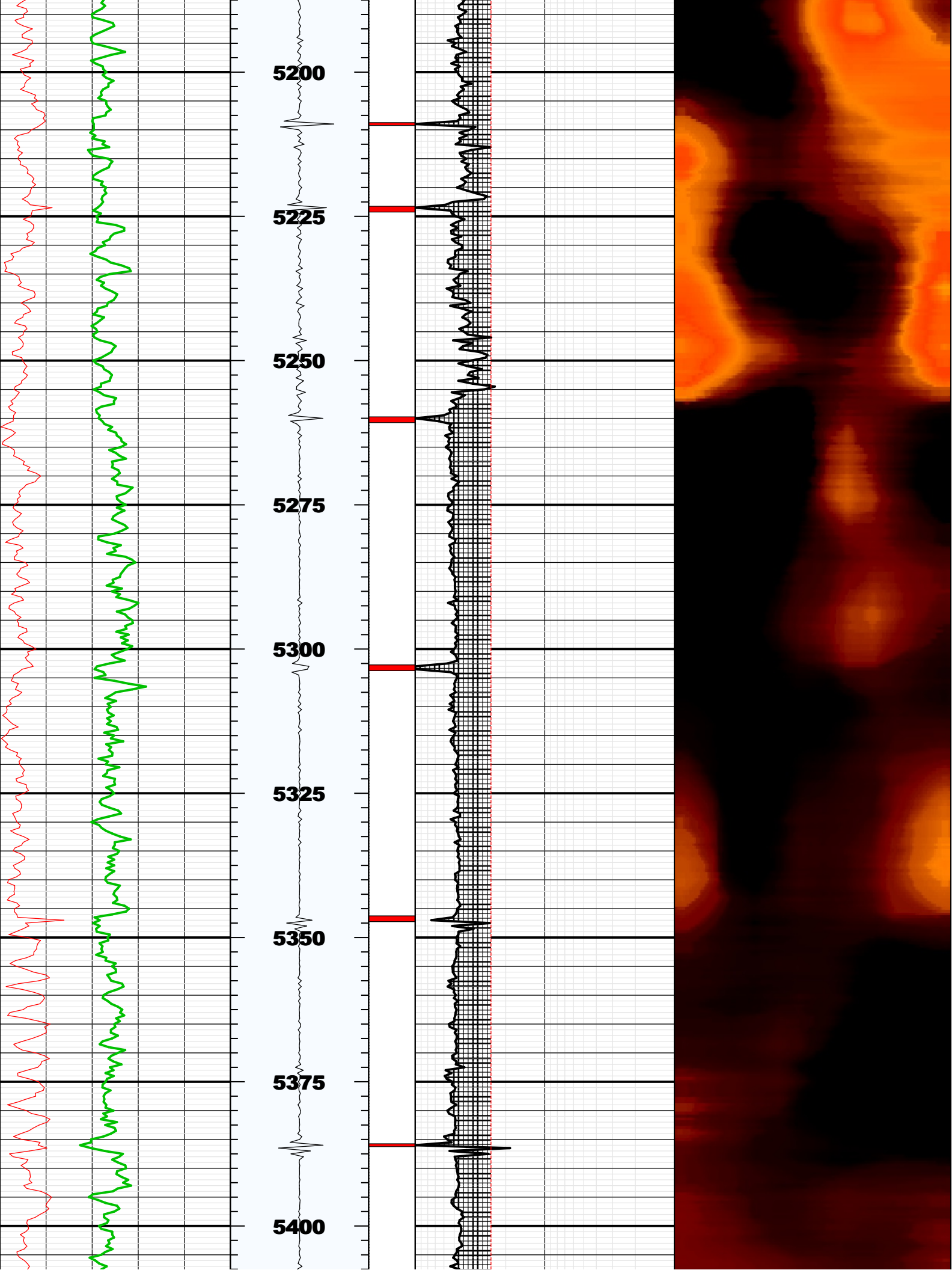


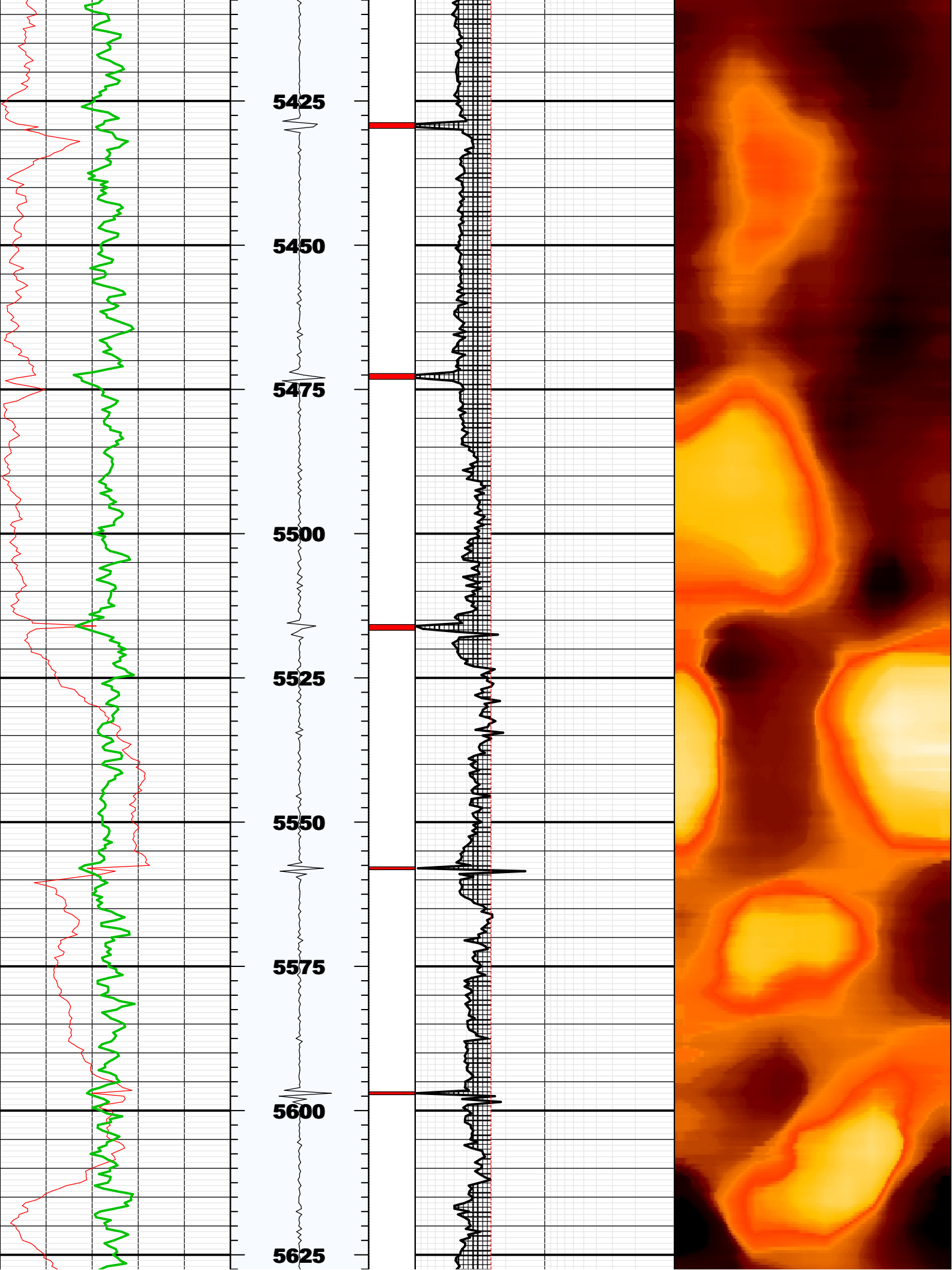


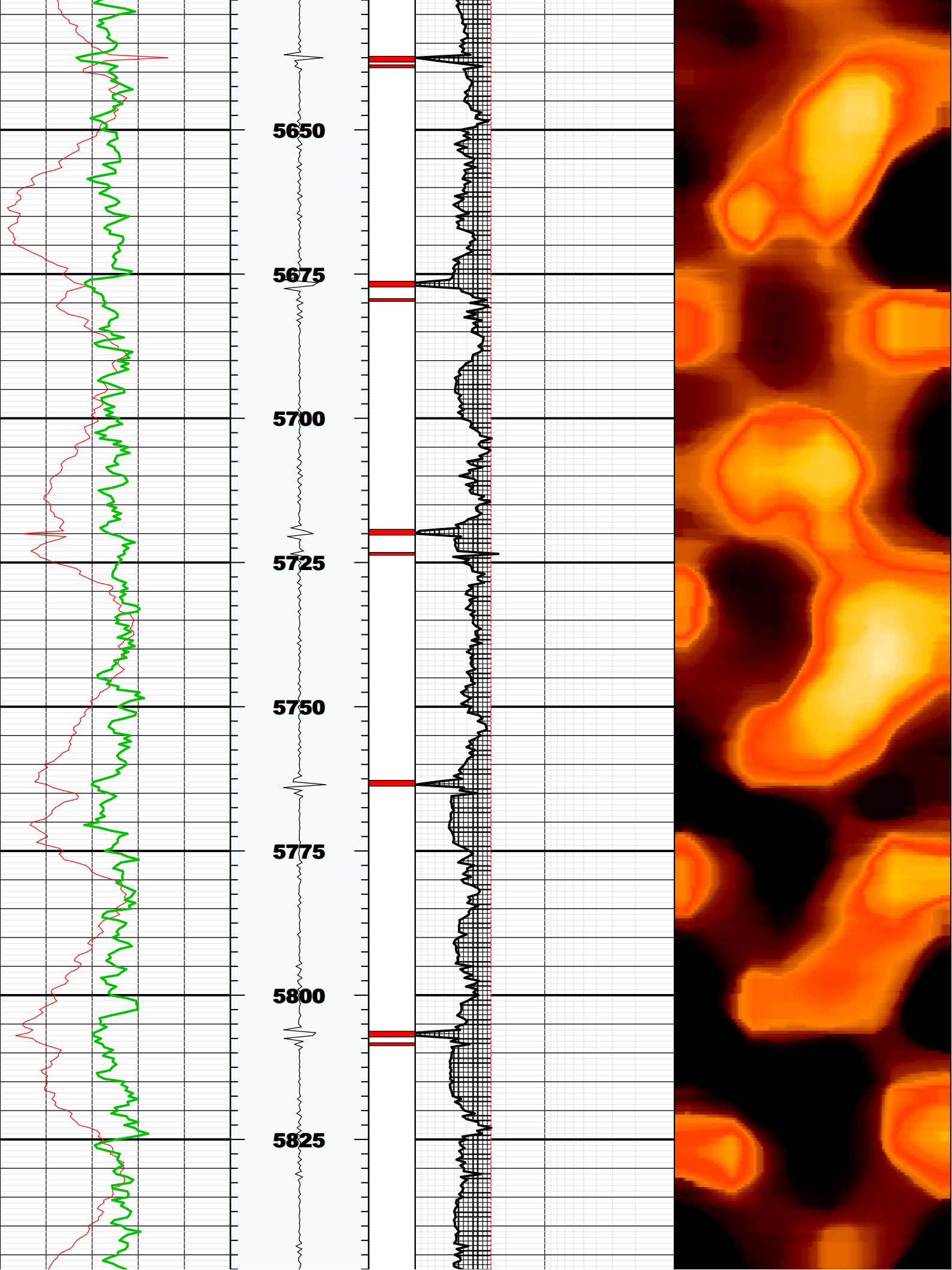


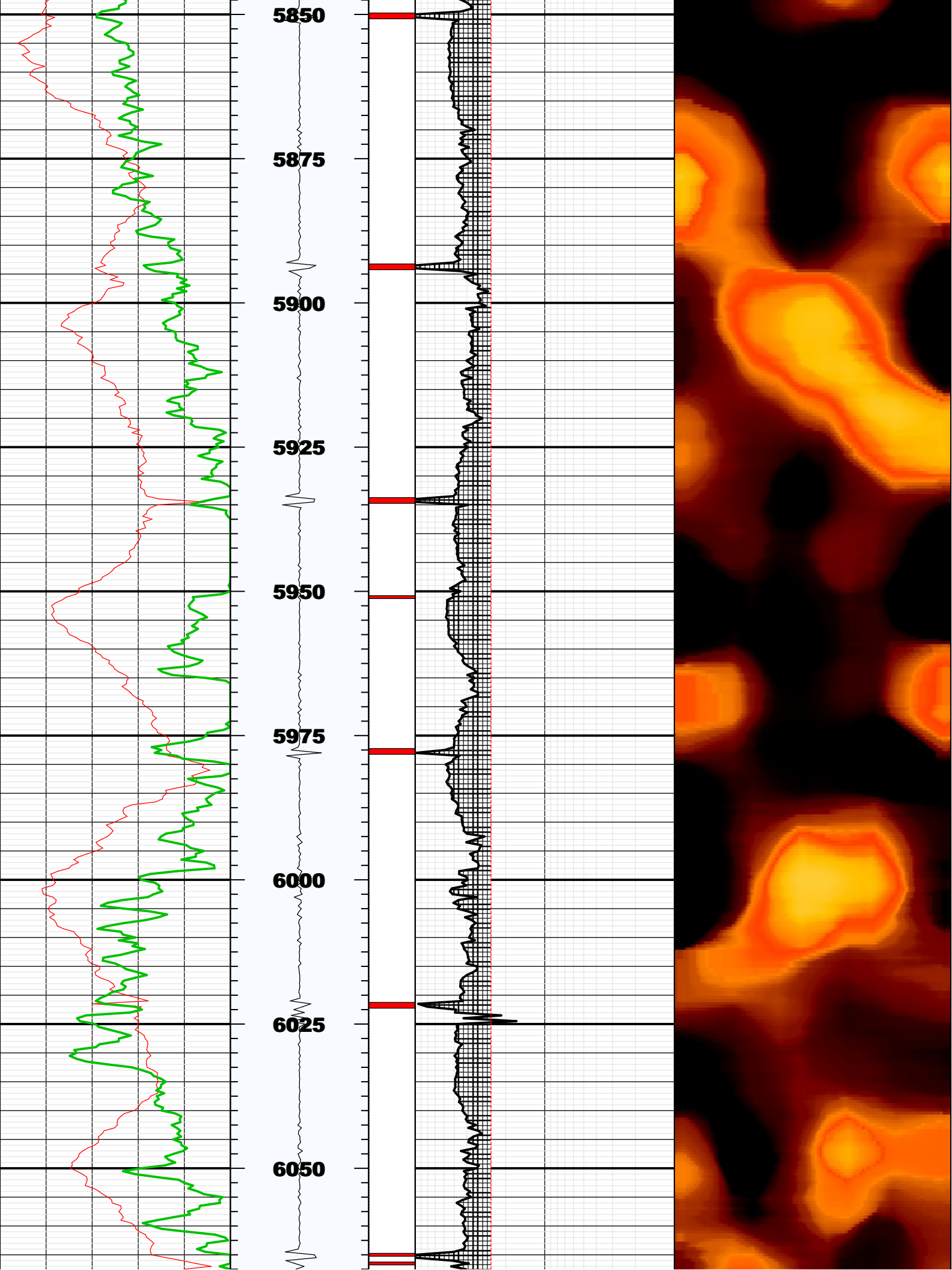


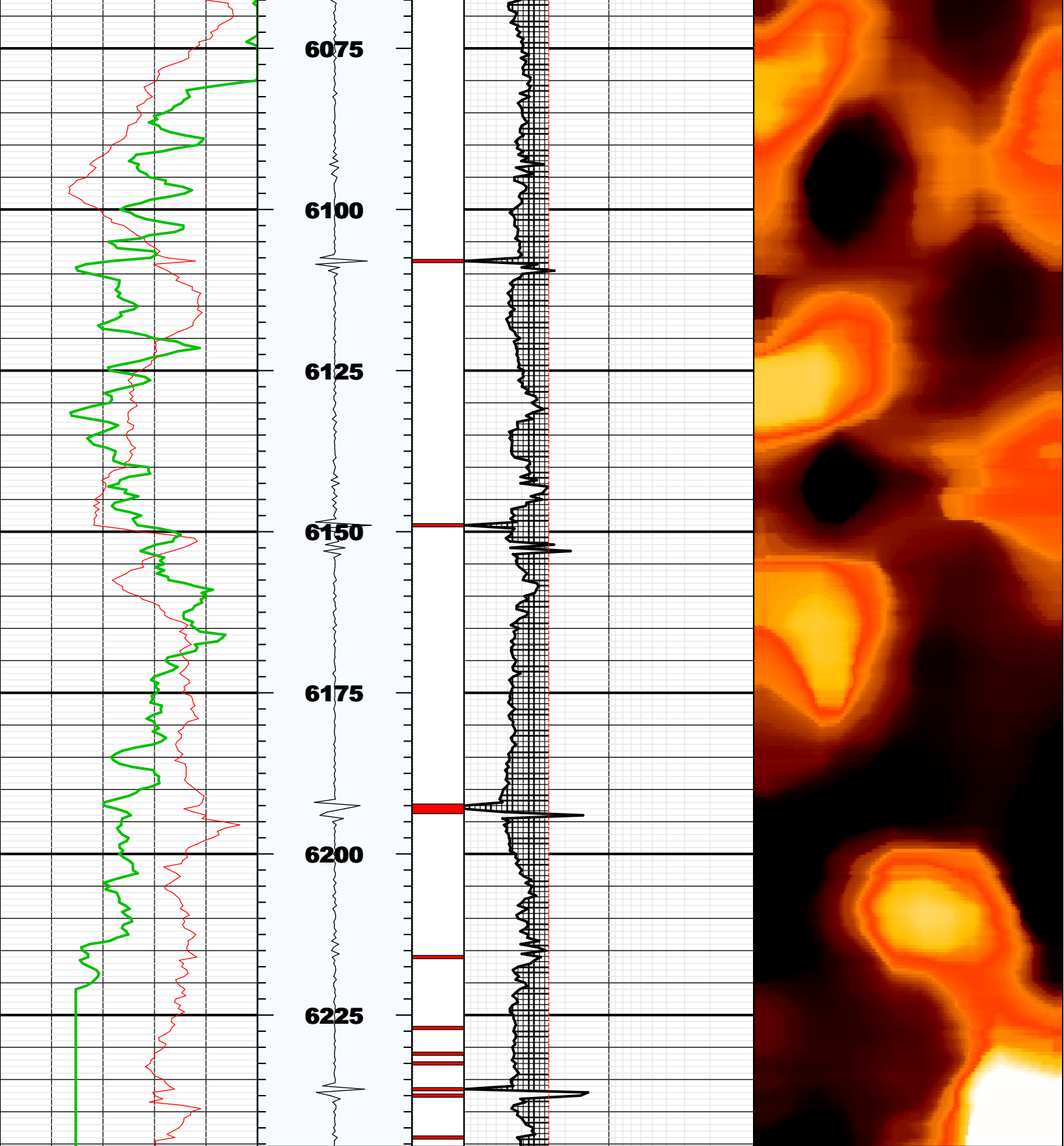












BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	10.00000	LB/G	Drilling Fluid Density
DFVL	188.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	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	36.99580	US	Window Begin Time
WINE	74.79472	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

Fluid Properties Used for Main Pass

