

Company: Noble Energy Inc

Well: Steadfast E27-63-1HN  
Field: Wattenberg  
County: Weld State: Colorado

County: Weld				
Field: Wattenberg				
Location: SESE Sec. 26 T6N R65W				
Well: Steadfast E27-63-1HN				
Company: Noble Energy Inc				
USI-LITE				
				LOCATION
Permanent Datum: Log Measured From: Drilling Measured From:		GL KB KB	Elev: K.B. 4692.0 F G.L. 4676.0 F D.F. 4691.0 F	
Logging Date	API Serial No. 05-123-38159-0000	Section 26	Township 6N	Range 65W
Run Number	21-Aug-2014			
Depth Driller	Run1 USIT			
Schlumberger Depth	13751.0 F			
Bottom Log Interval	13751.0 F			
Top Log Interval	7025.0 F			
Casing Fluid Level	-999.2 F			
Salinity	0.0 F			
Density				
Fluid Level	10.00 LB/G			
BIT/CASING/TUBING STRING	0.0 F			
Bit Size	8.750 IN			
From	-999.2 F			
To	13751.0 F			
Casing Size	7.00 IN			
Weight	26.00 LB/F			
Grade	P110			
From	0.0 F			
To	7267.0 F			
Max Recorded Temp	239.9			
Logger on bottom (date)	21-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

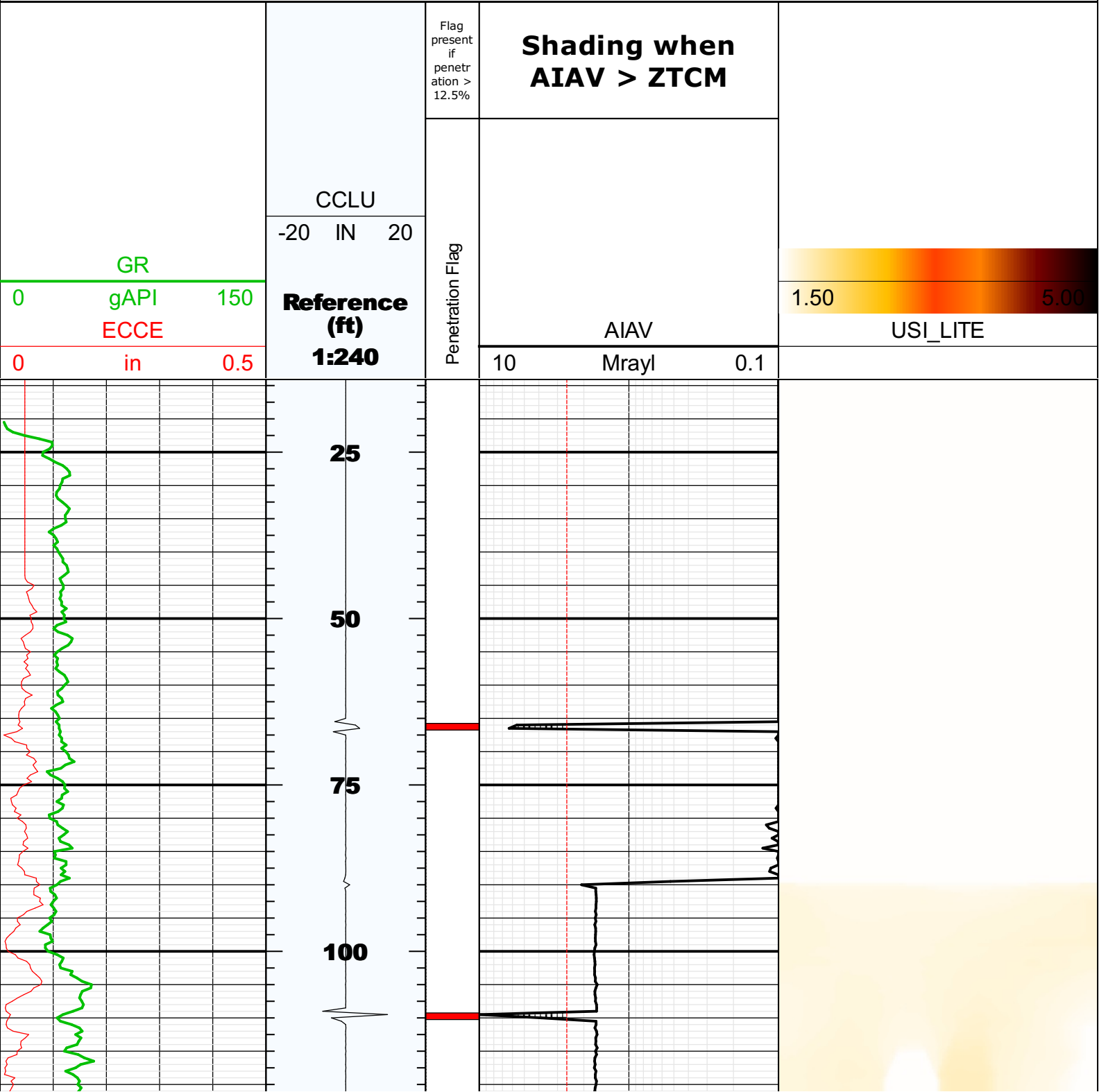
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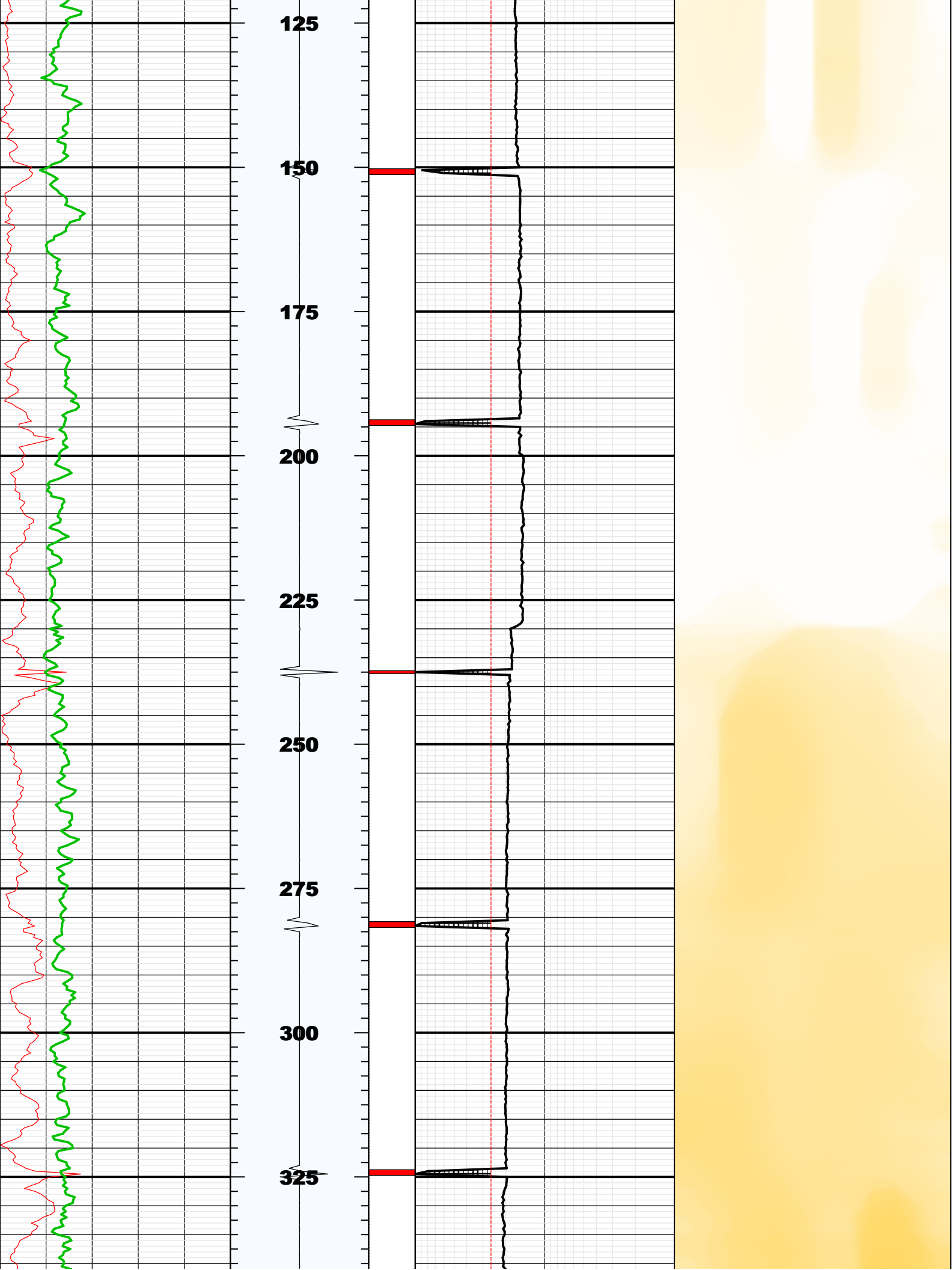
This is the first run in hole  
Toolstring run as per tool sketch  
12.5 ppg lead cement  
13.8 ppg tail cement  
0 PSI repeat pass  
2500 PSI main pass

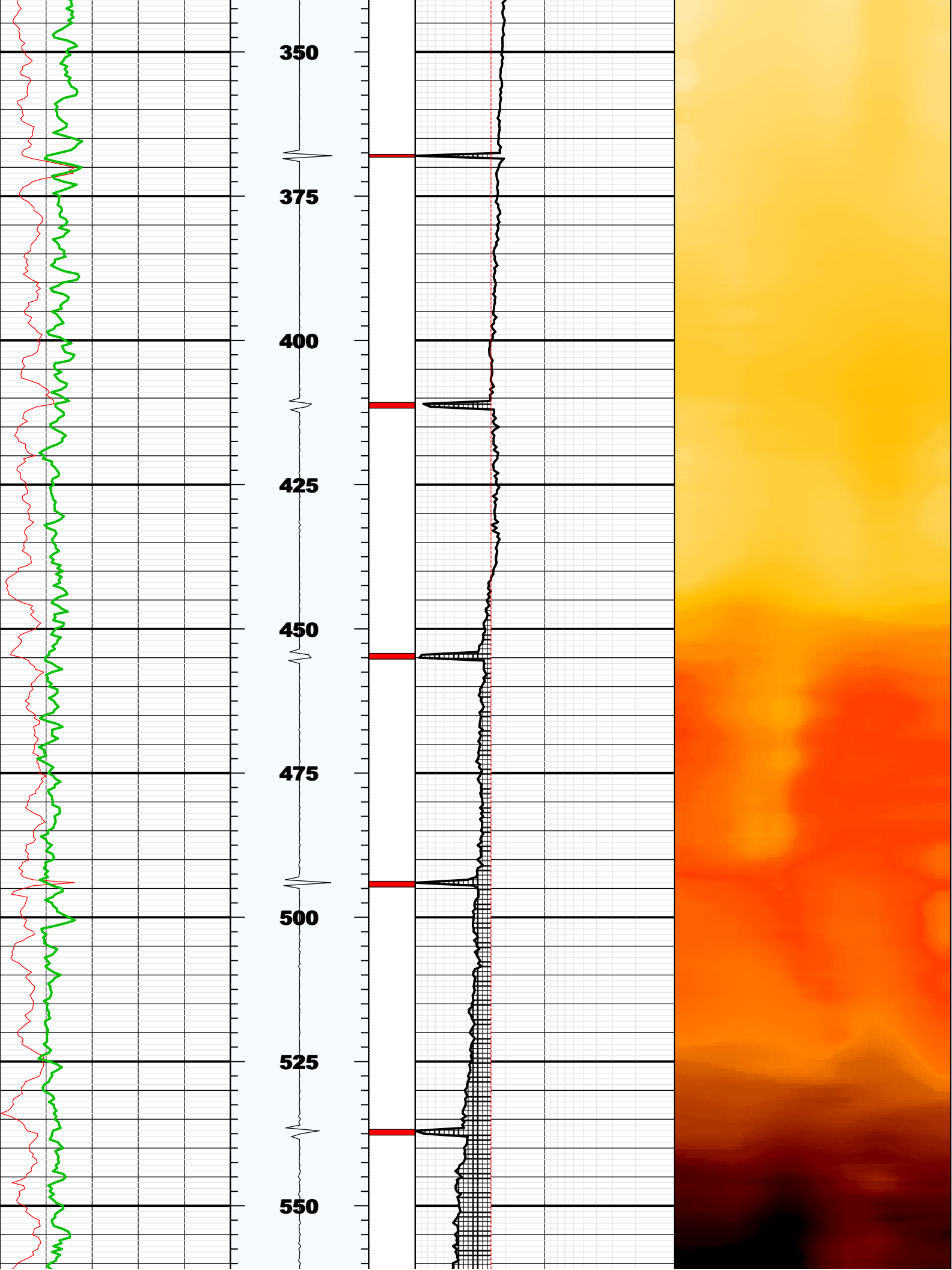
Bottom log temperature 240 degF  
Top of cement 440 ft  
Crew Ian Derry Jake Jump

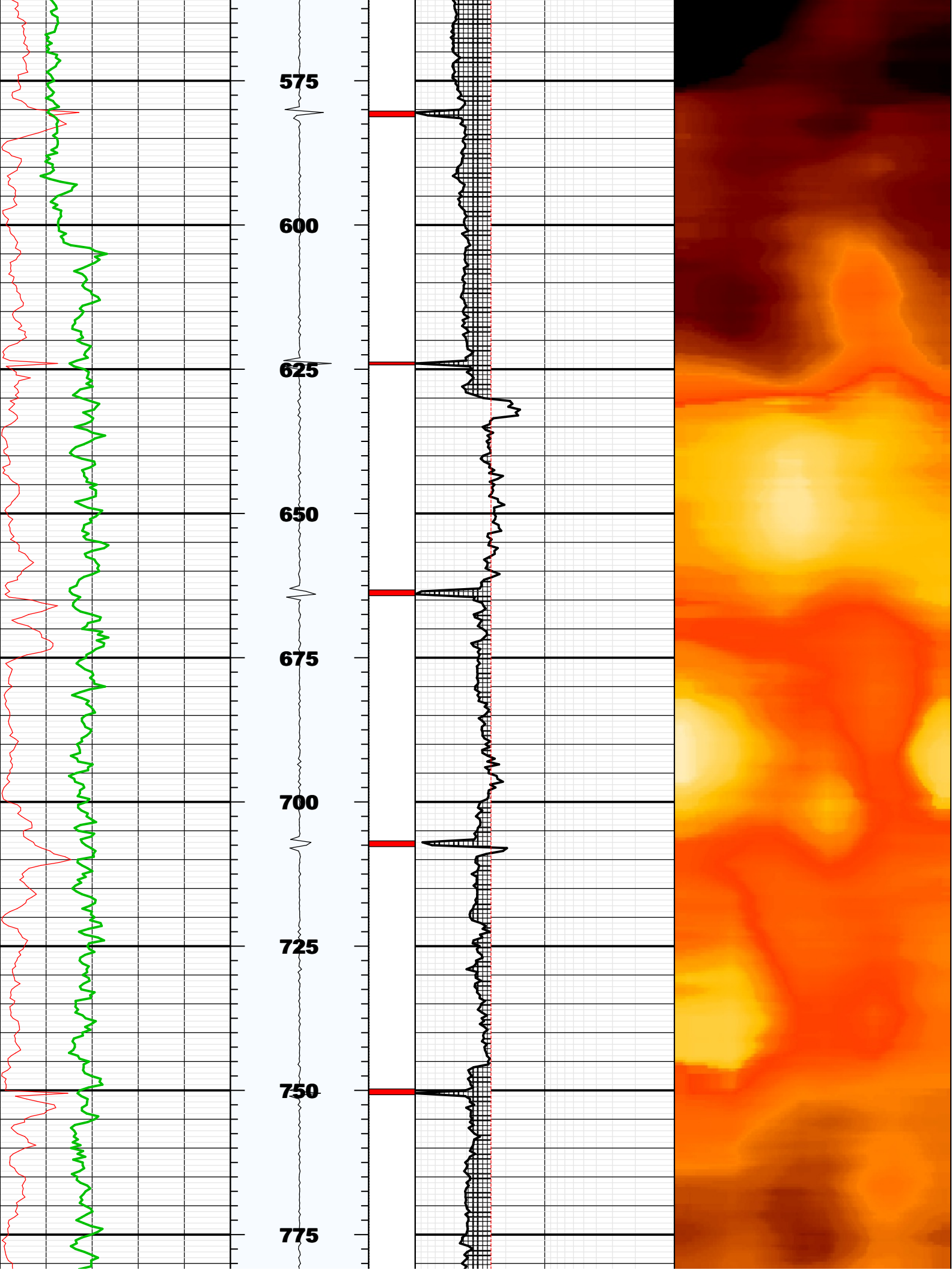
Main Pass

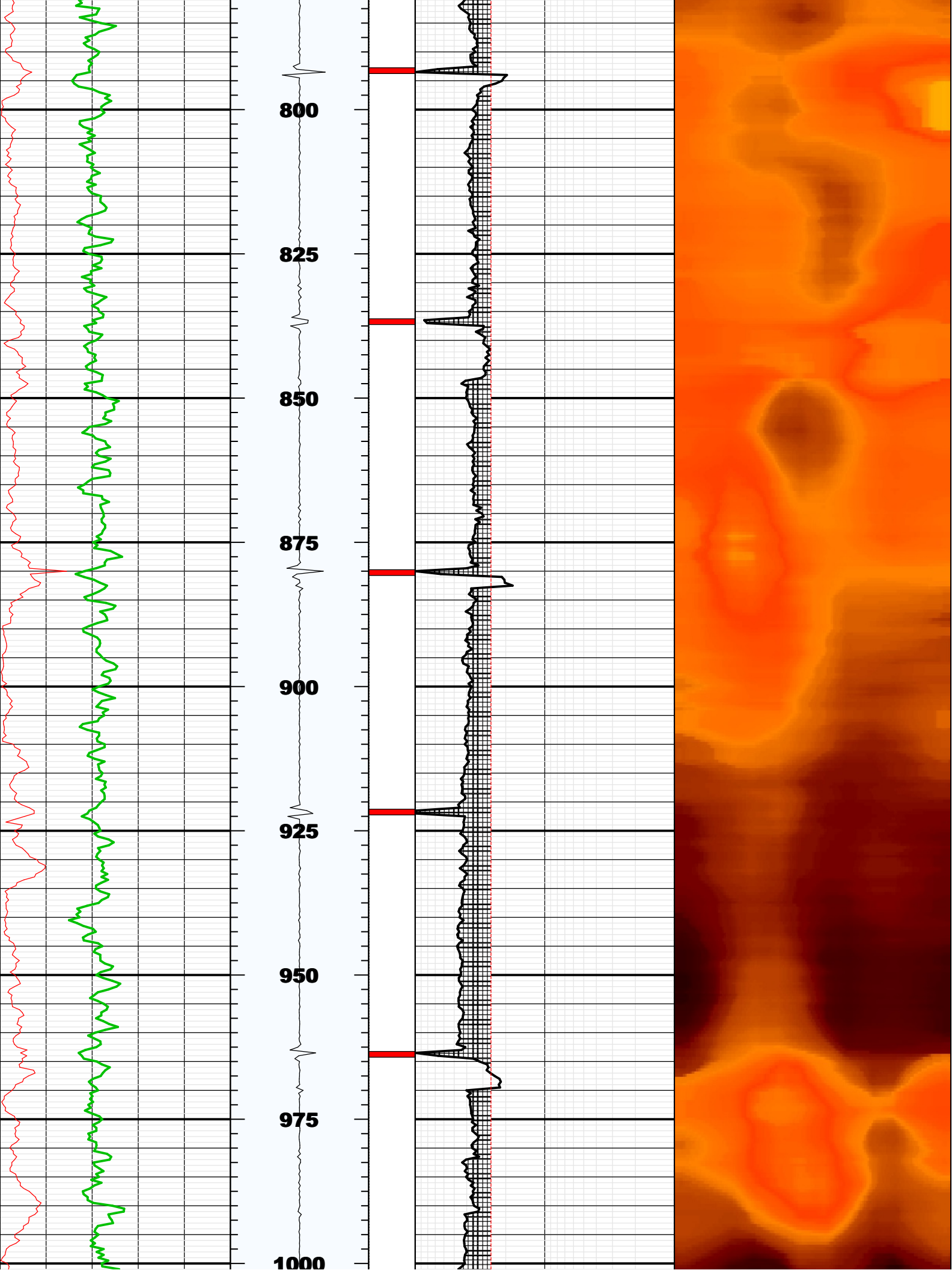
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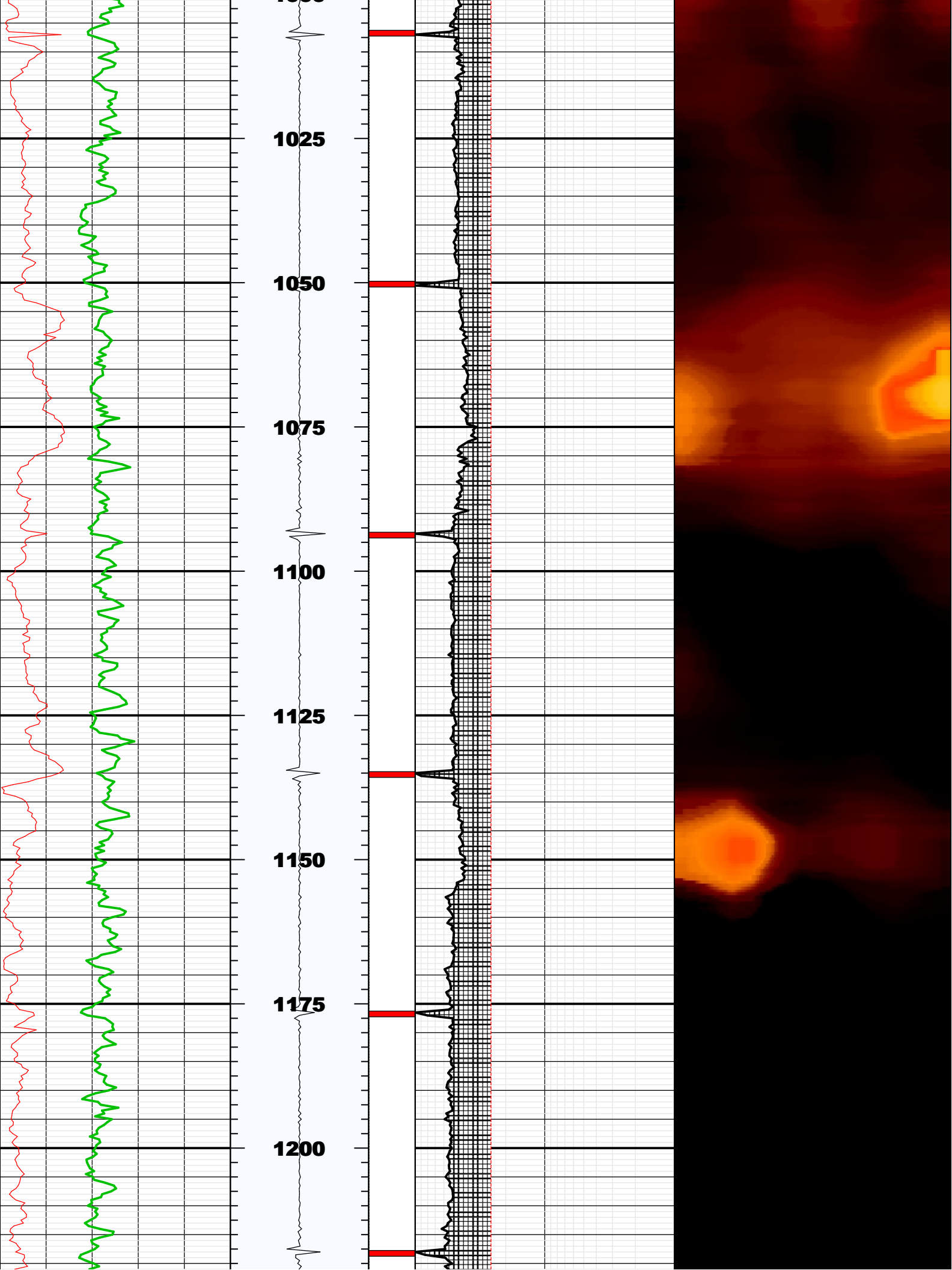




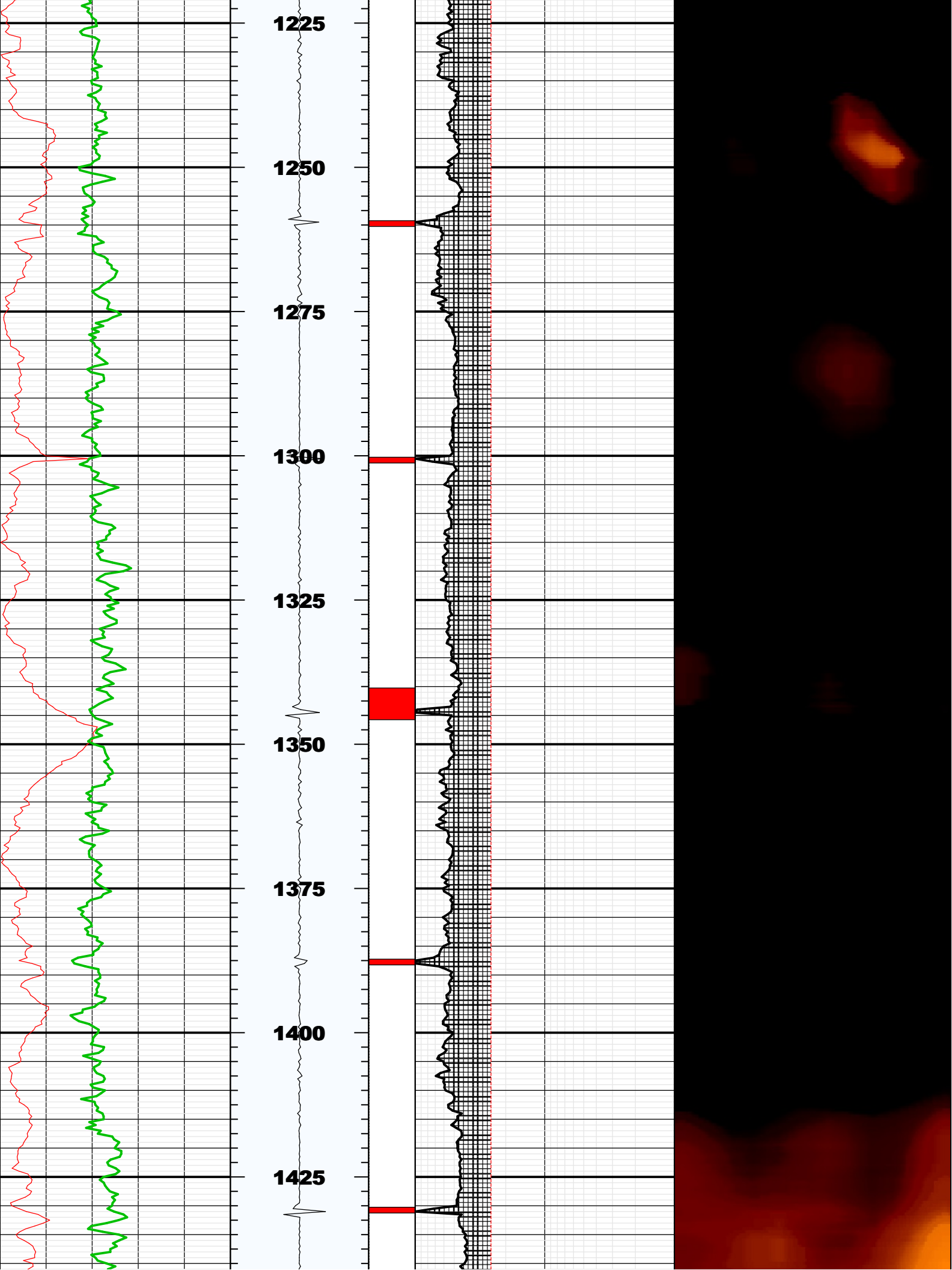


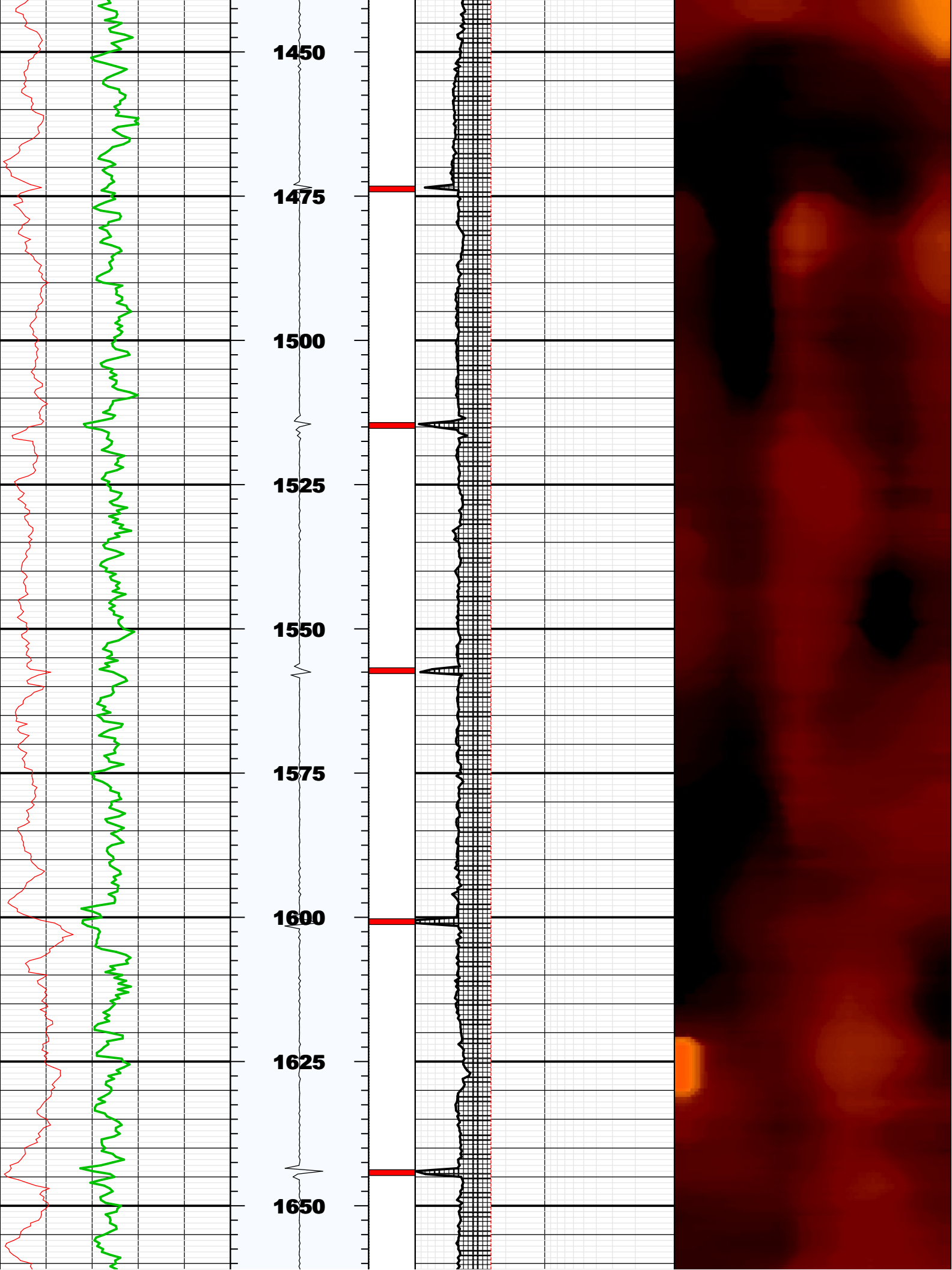


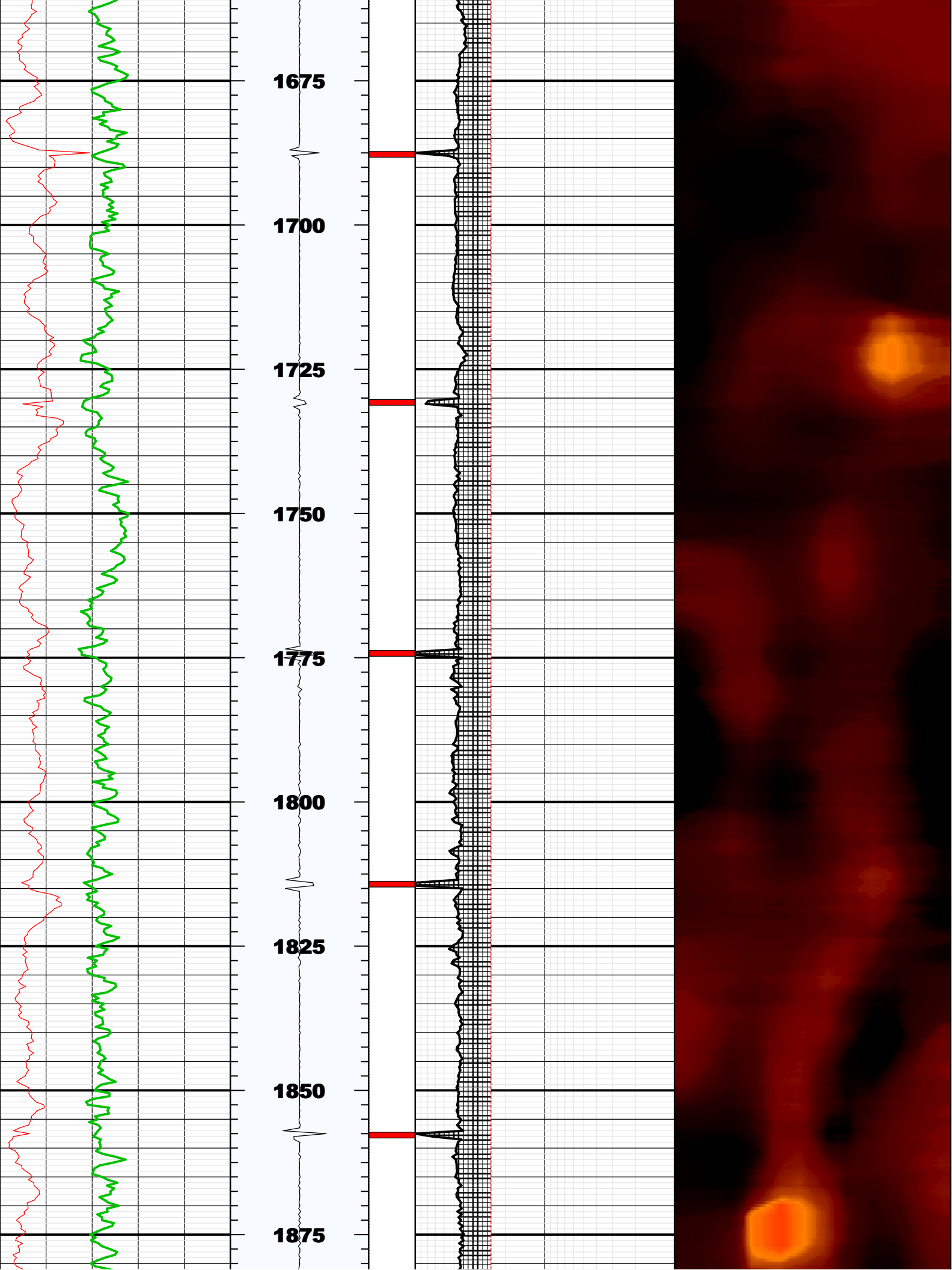


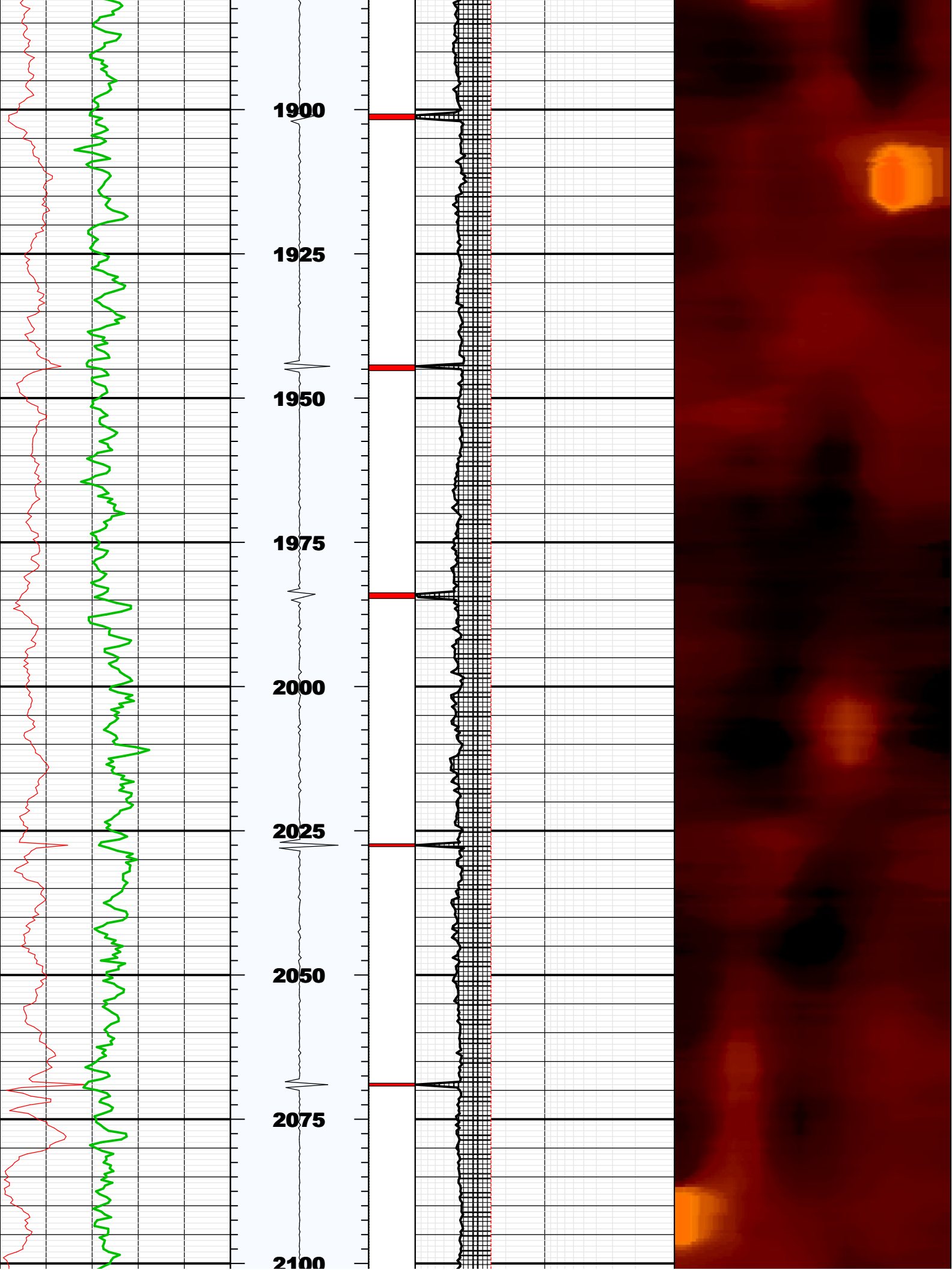


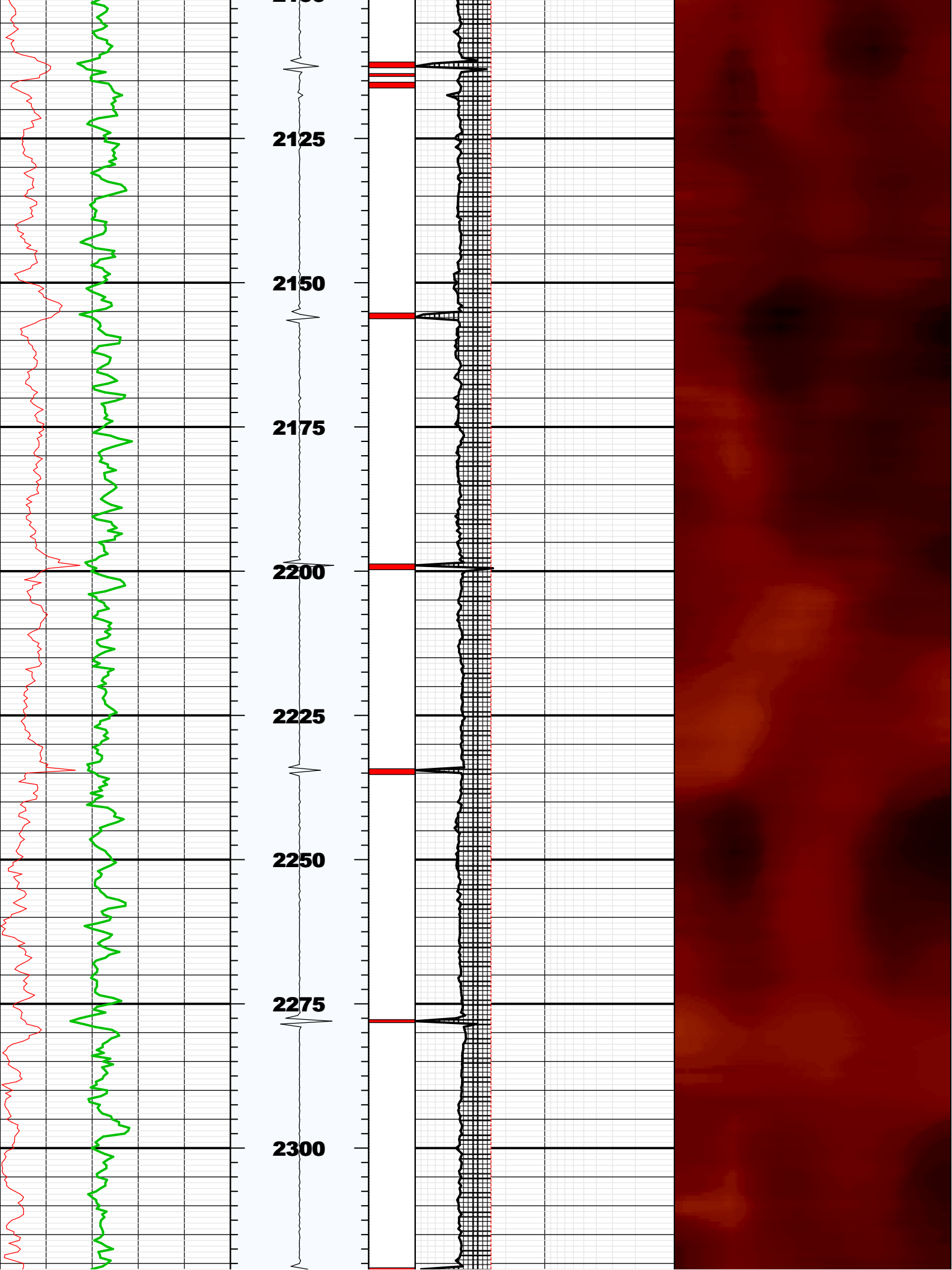




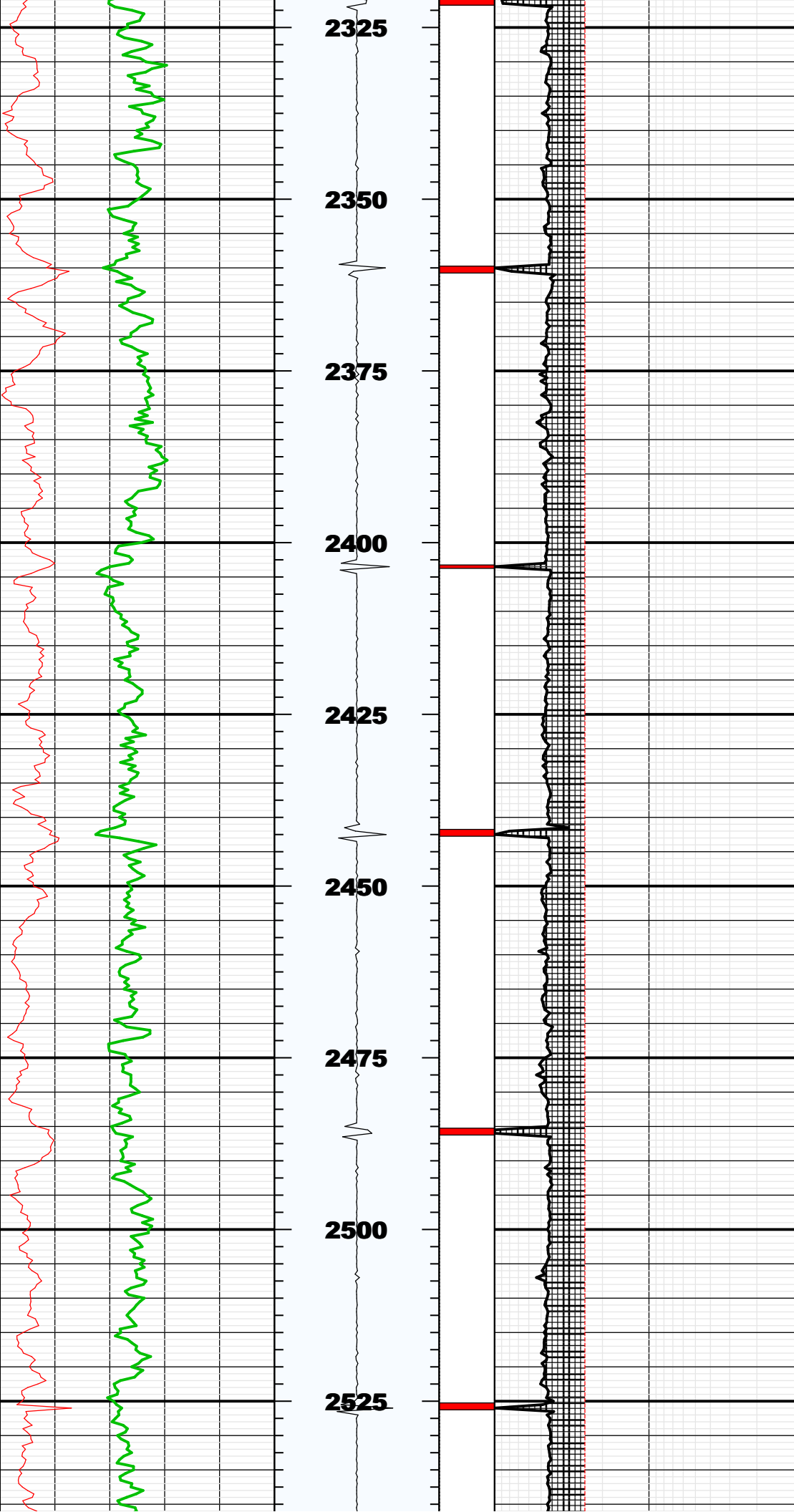


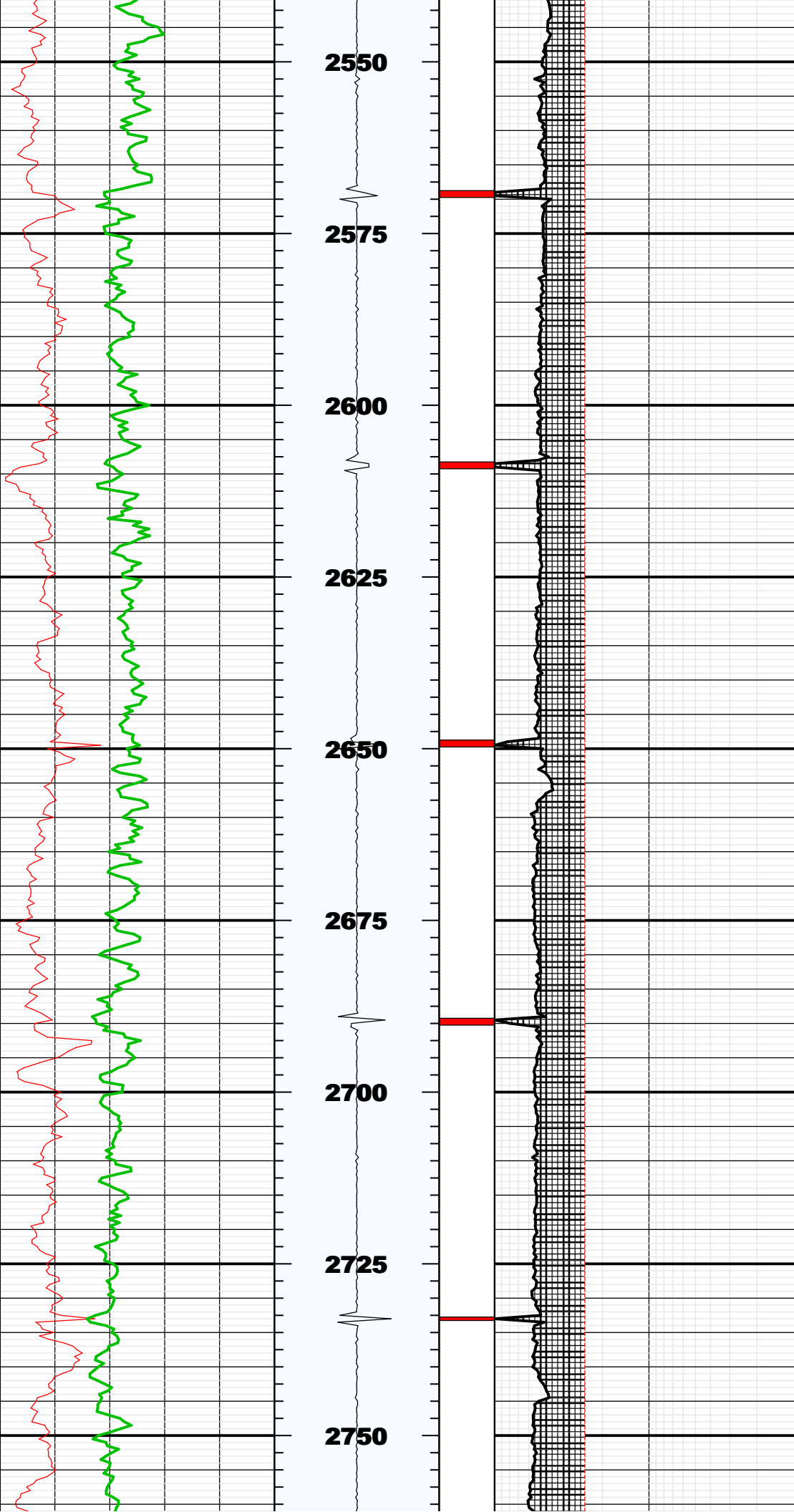




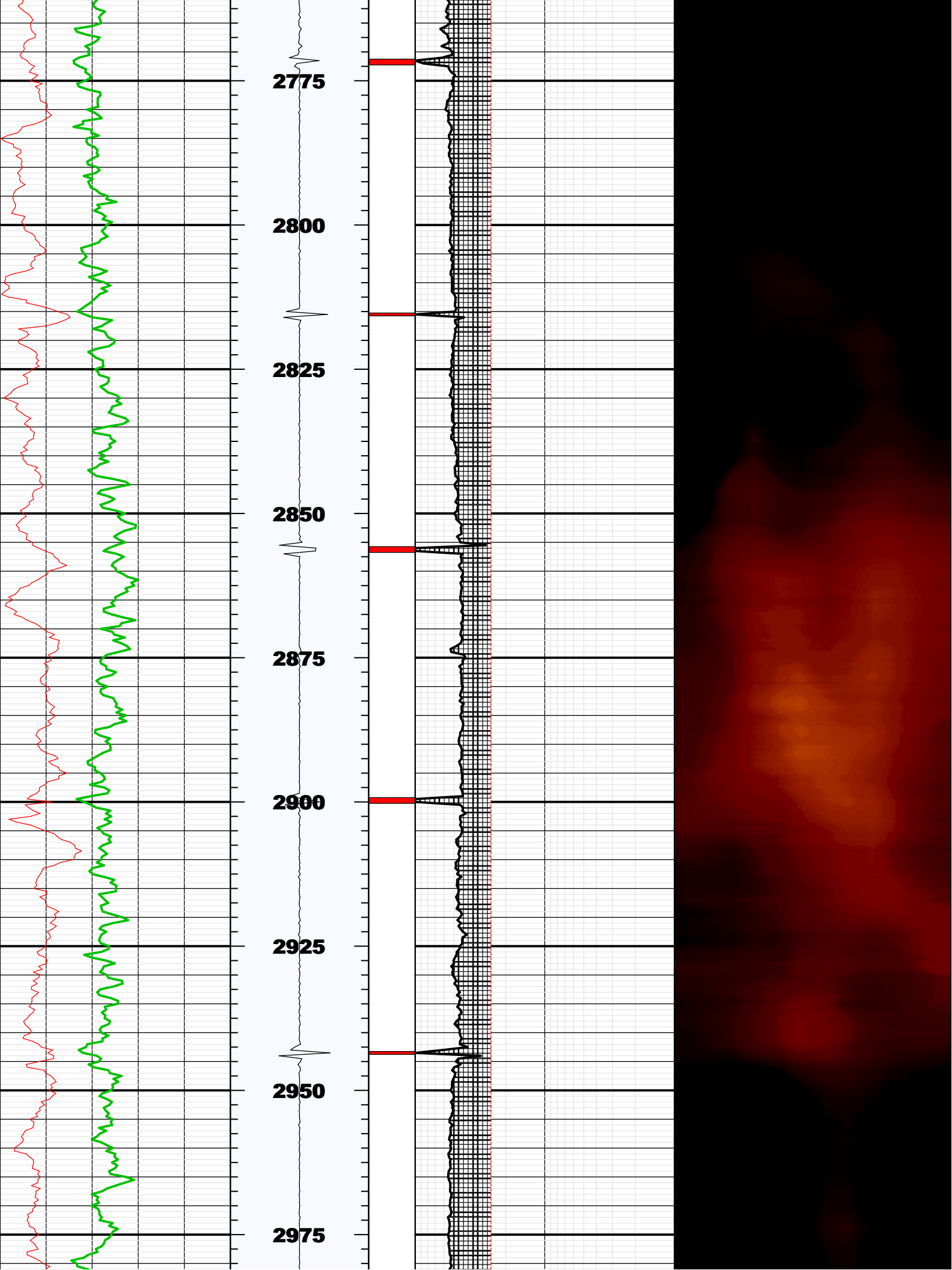


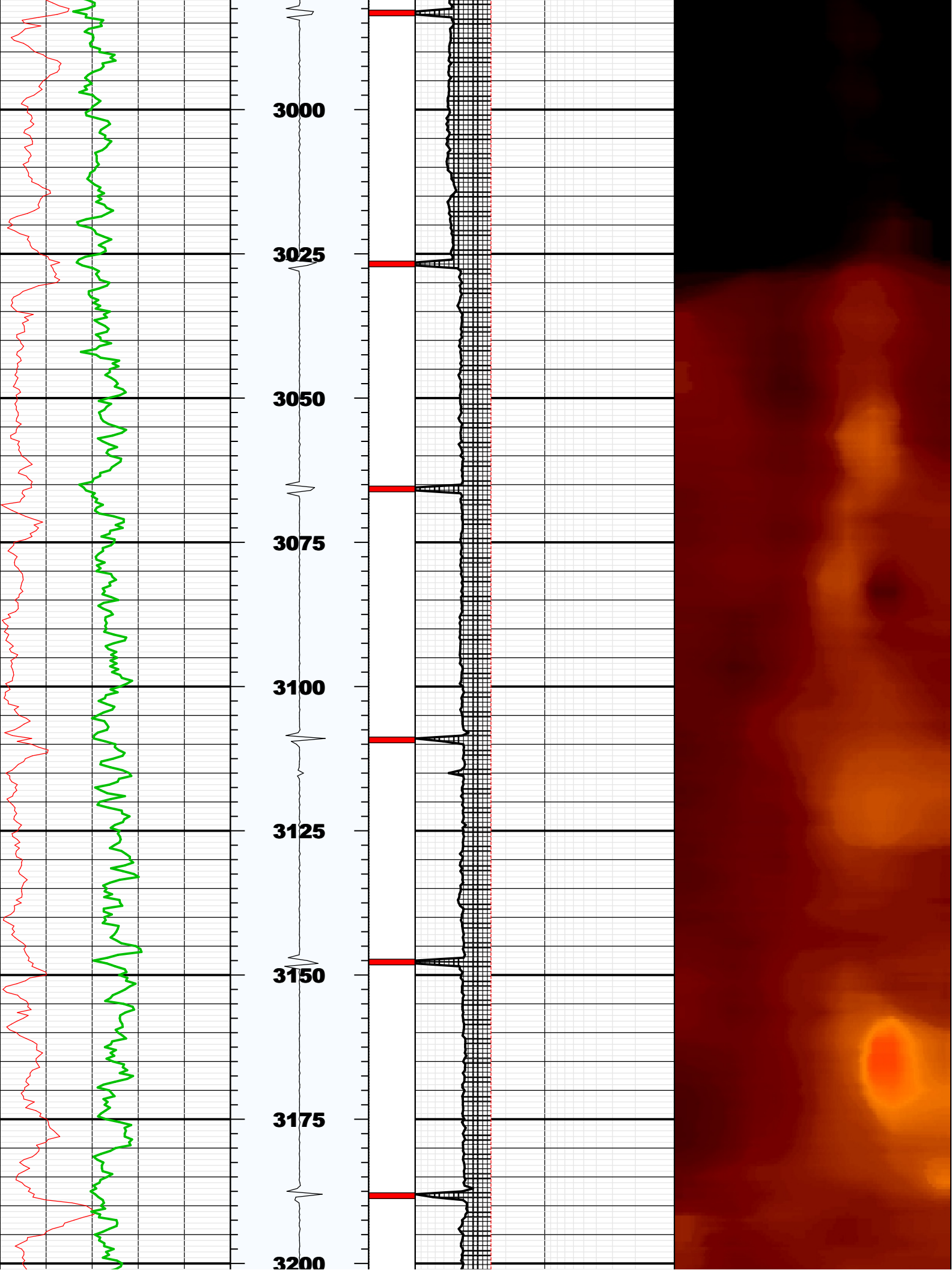


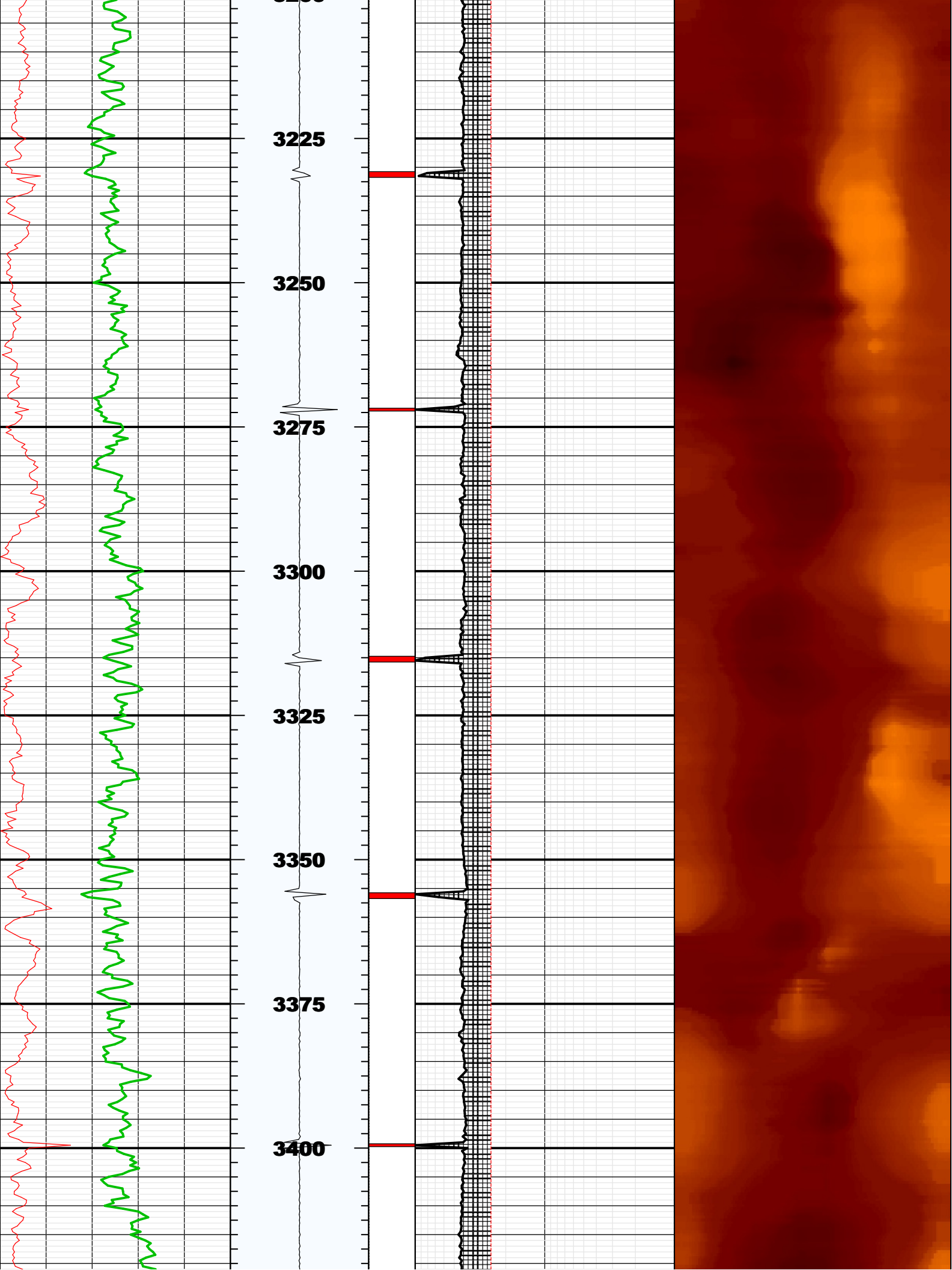


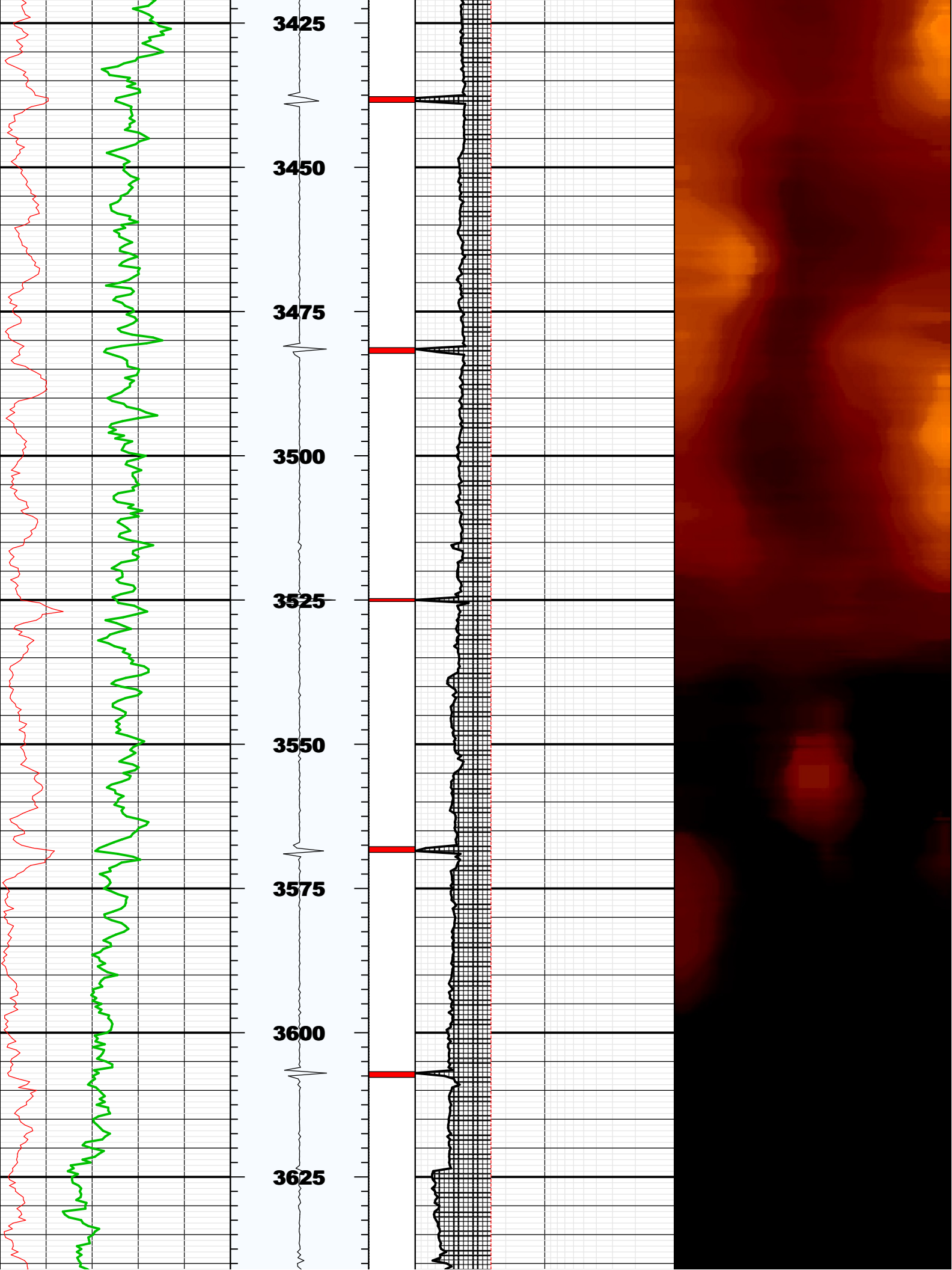


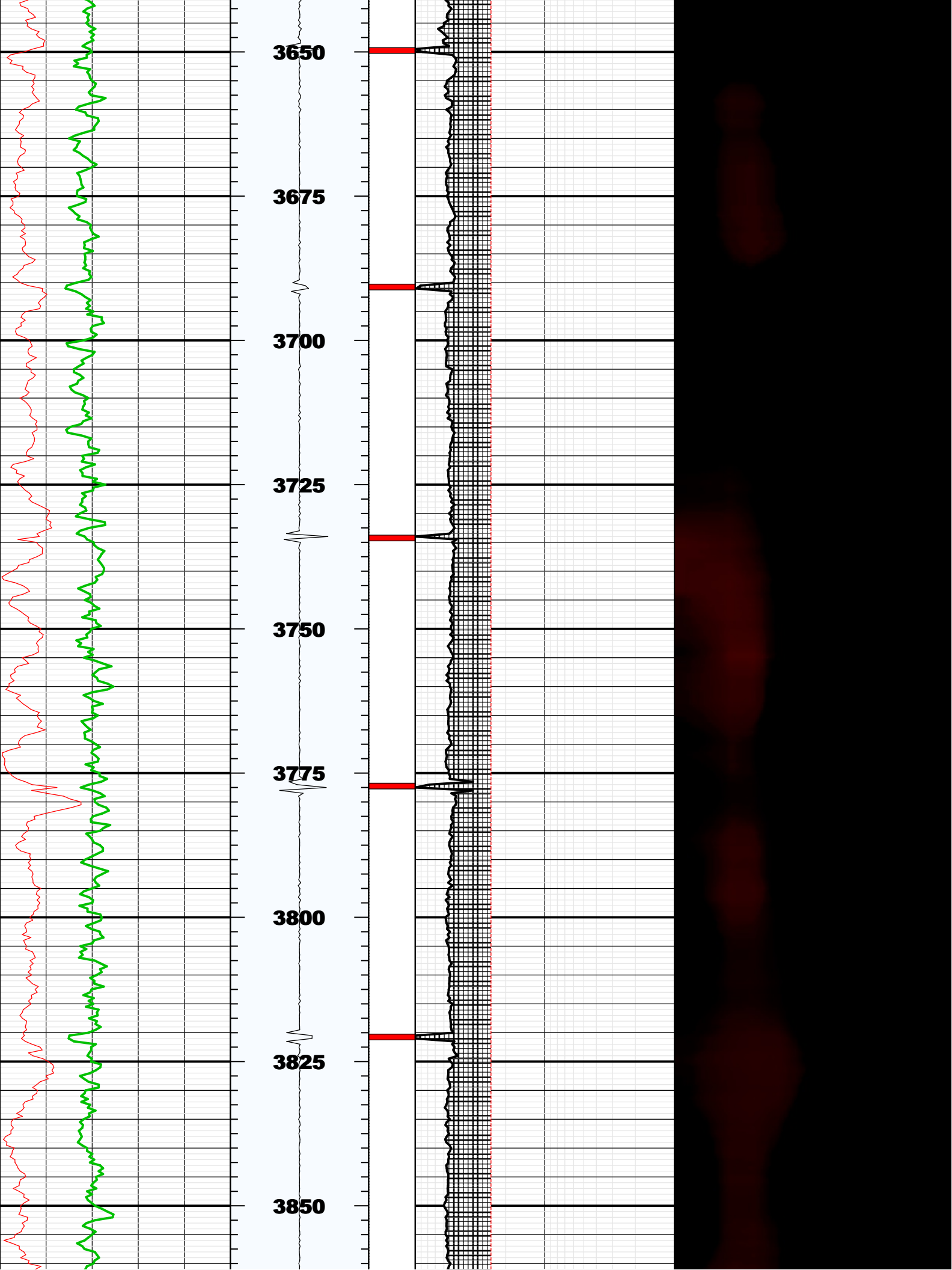




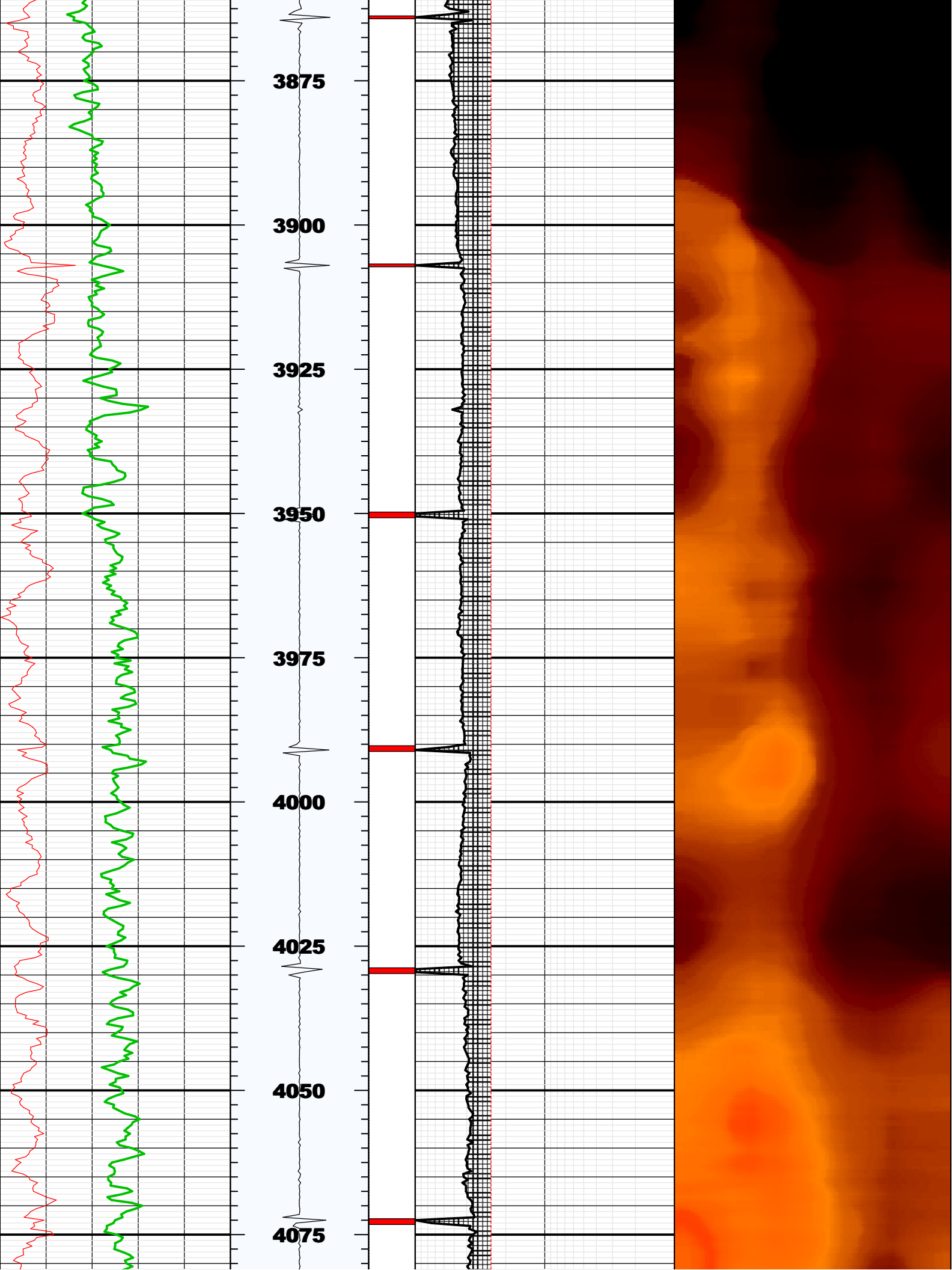


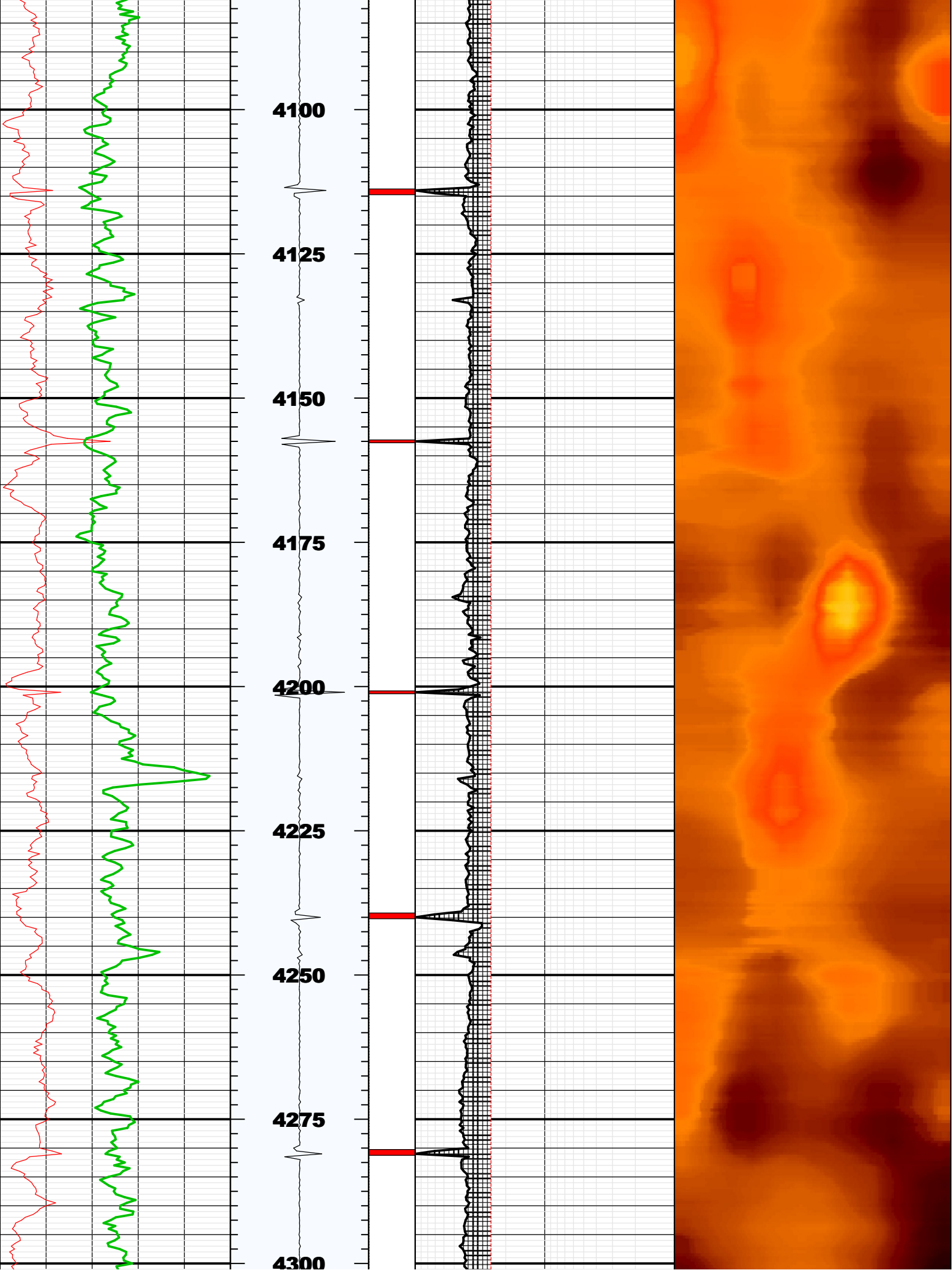




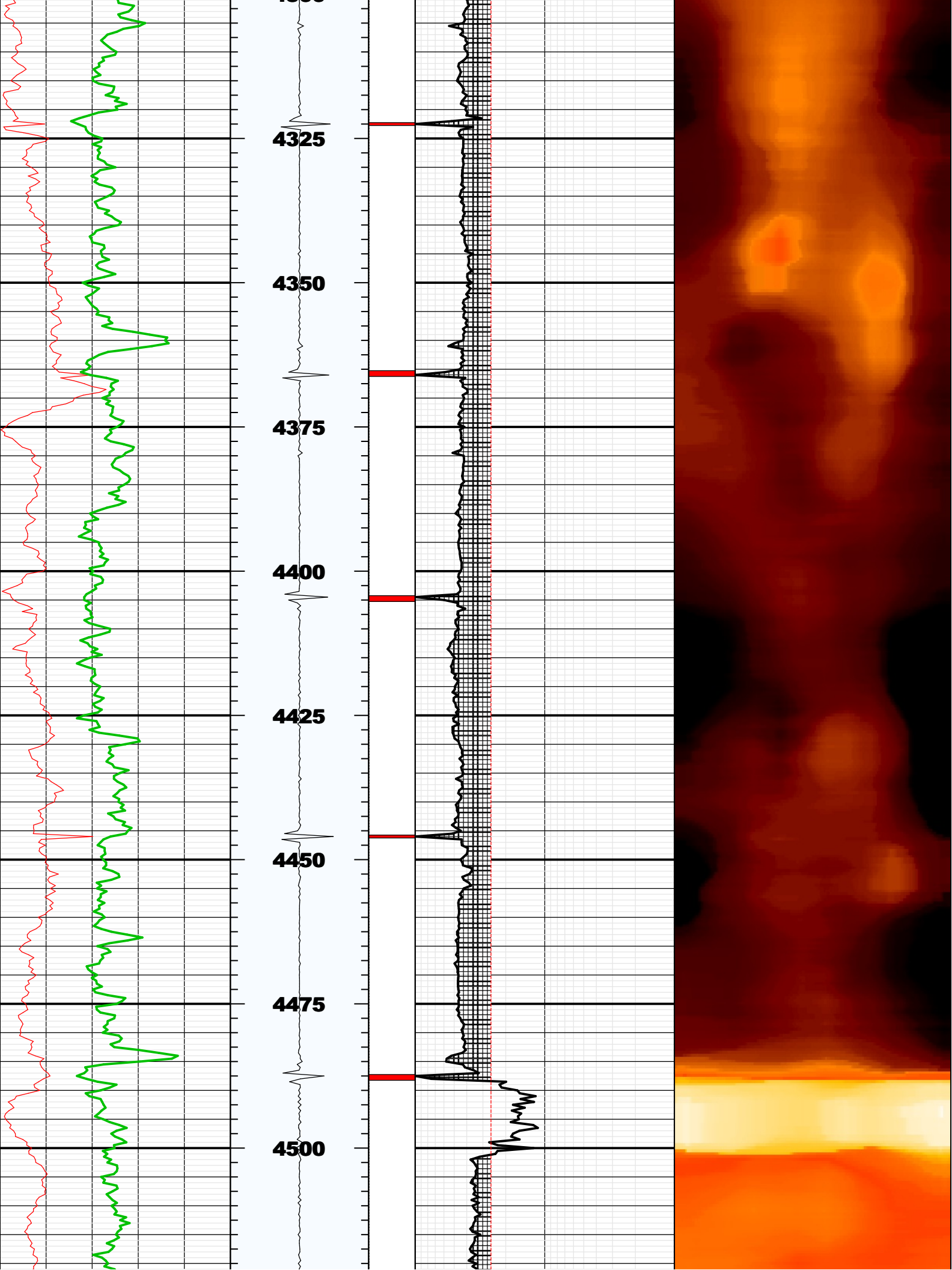


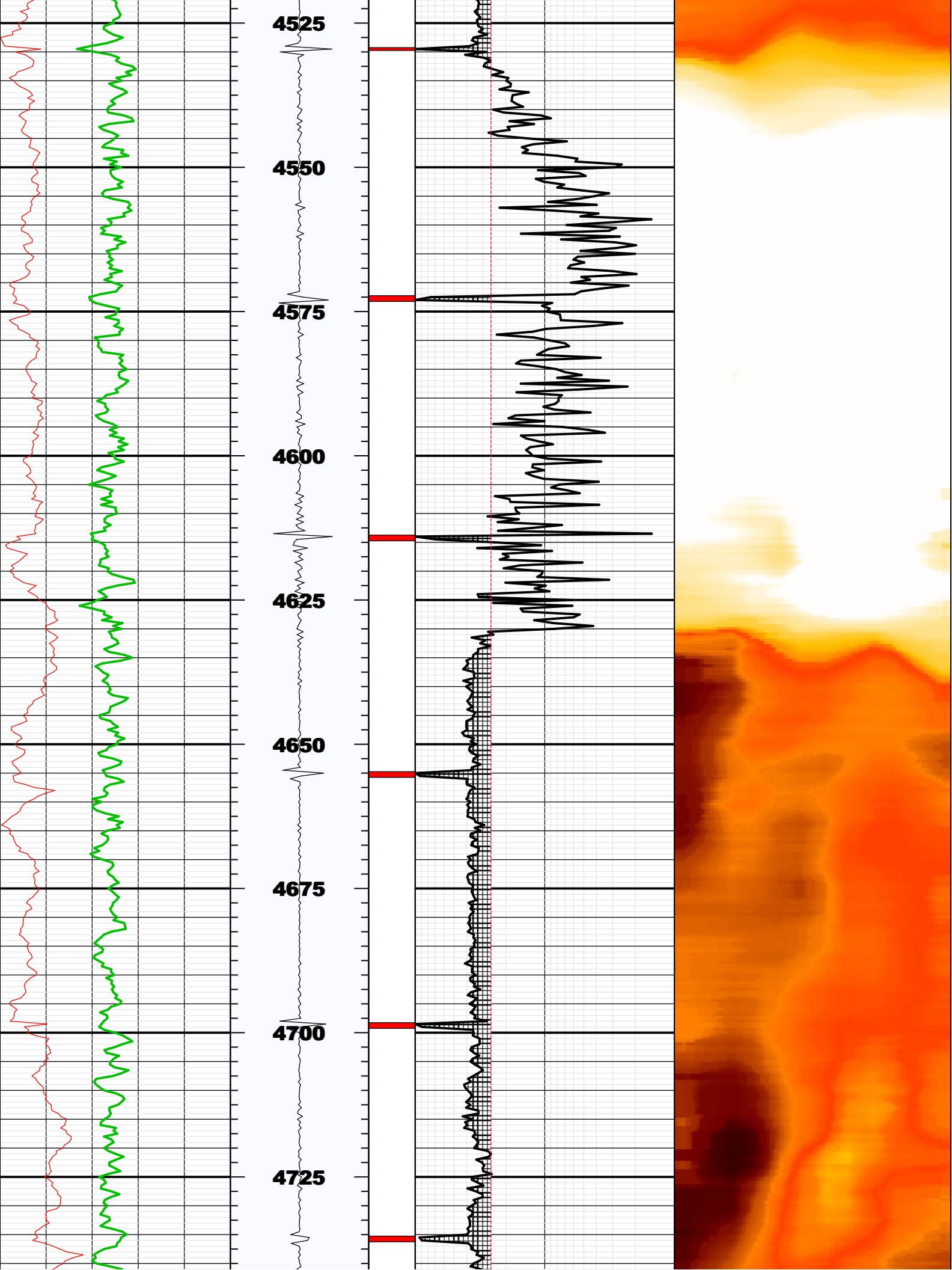


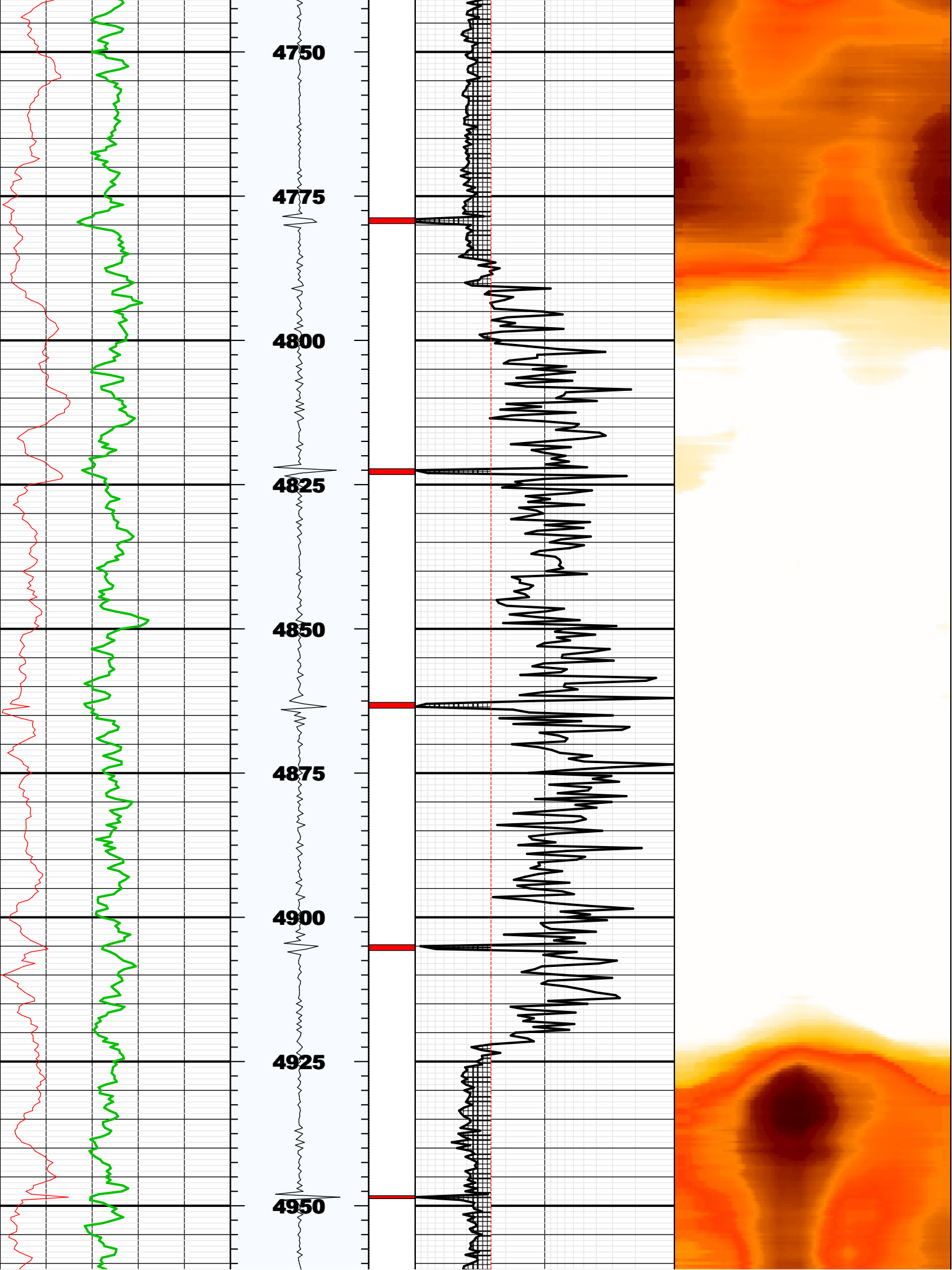


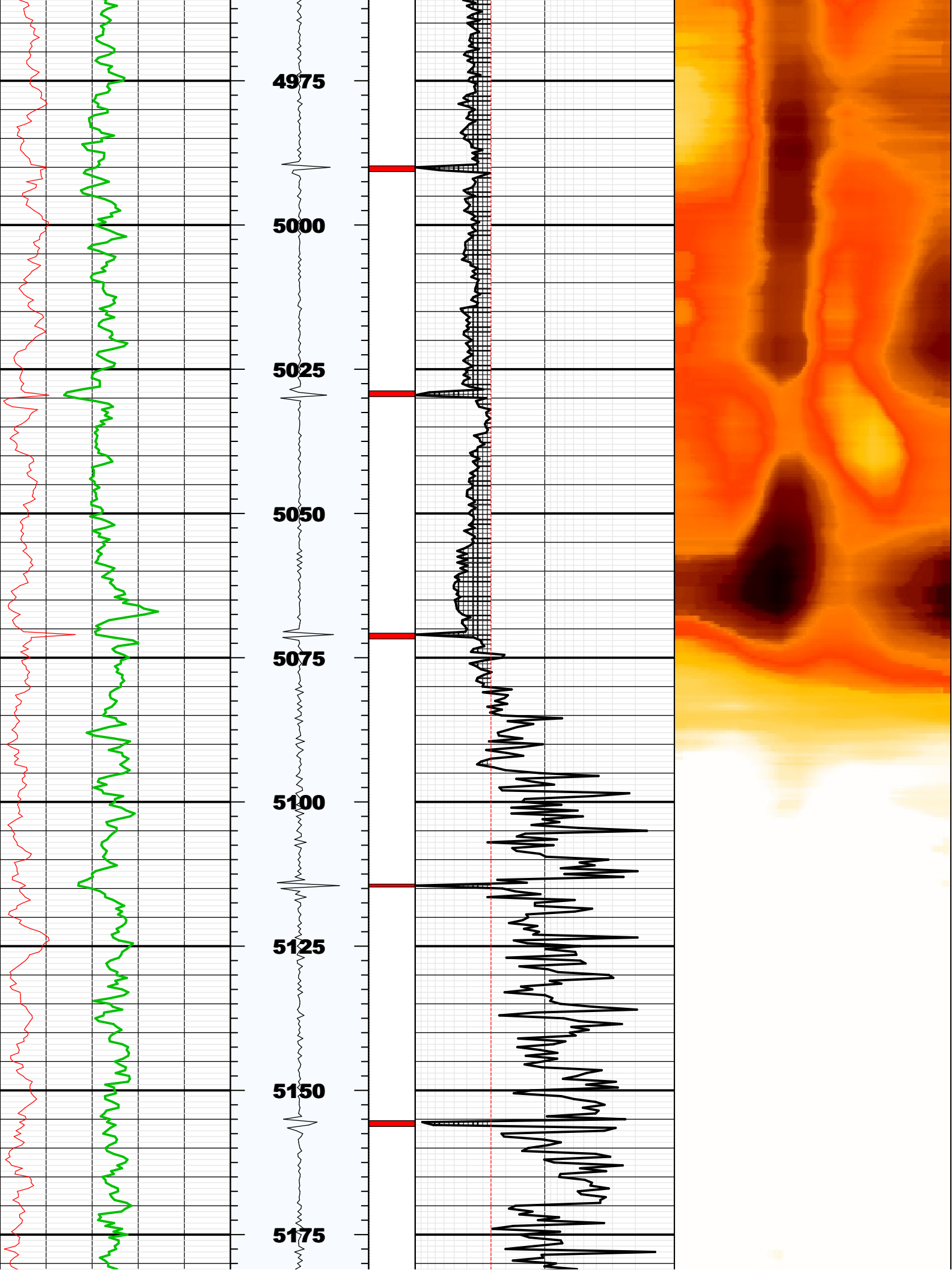




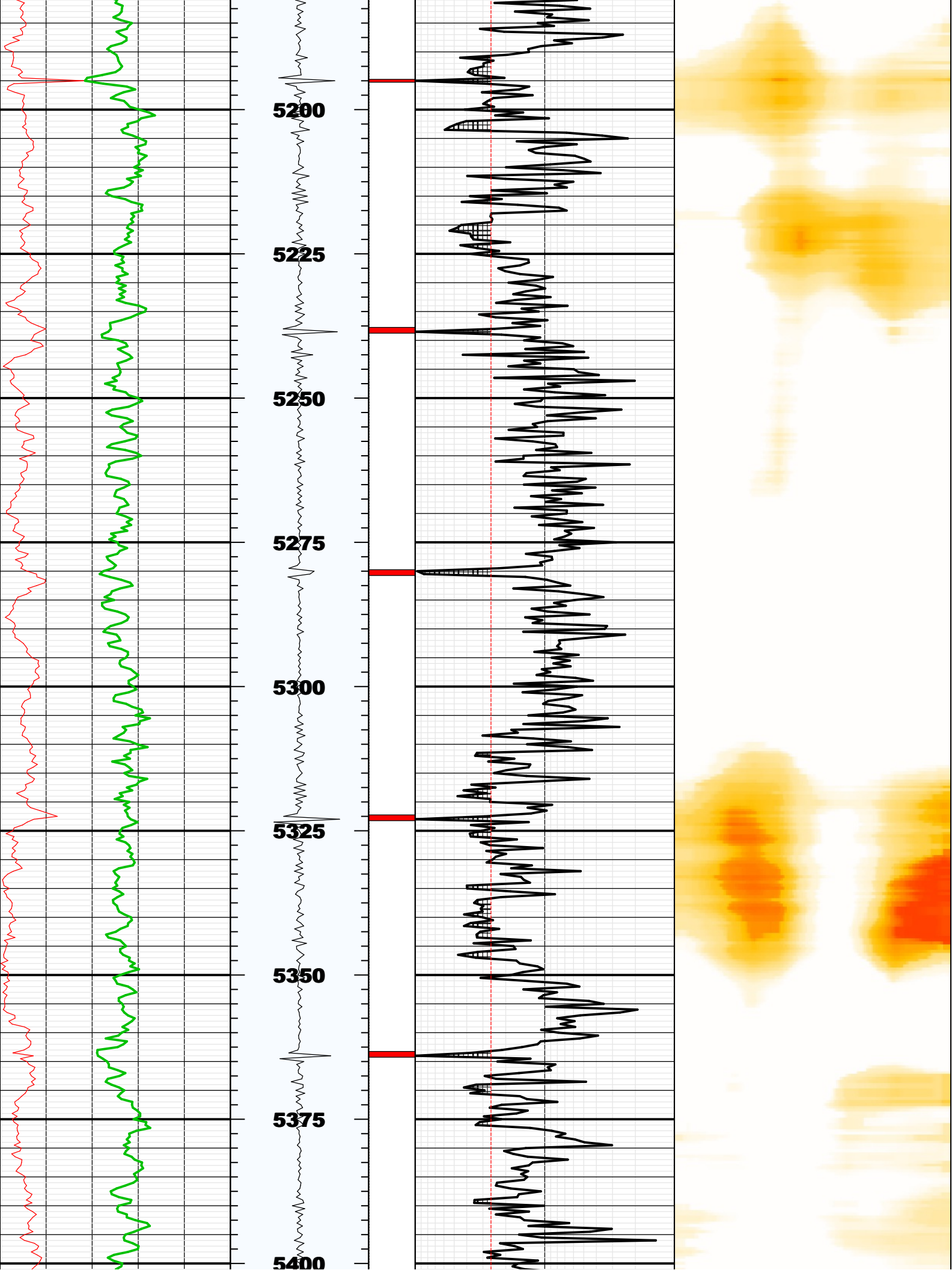


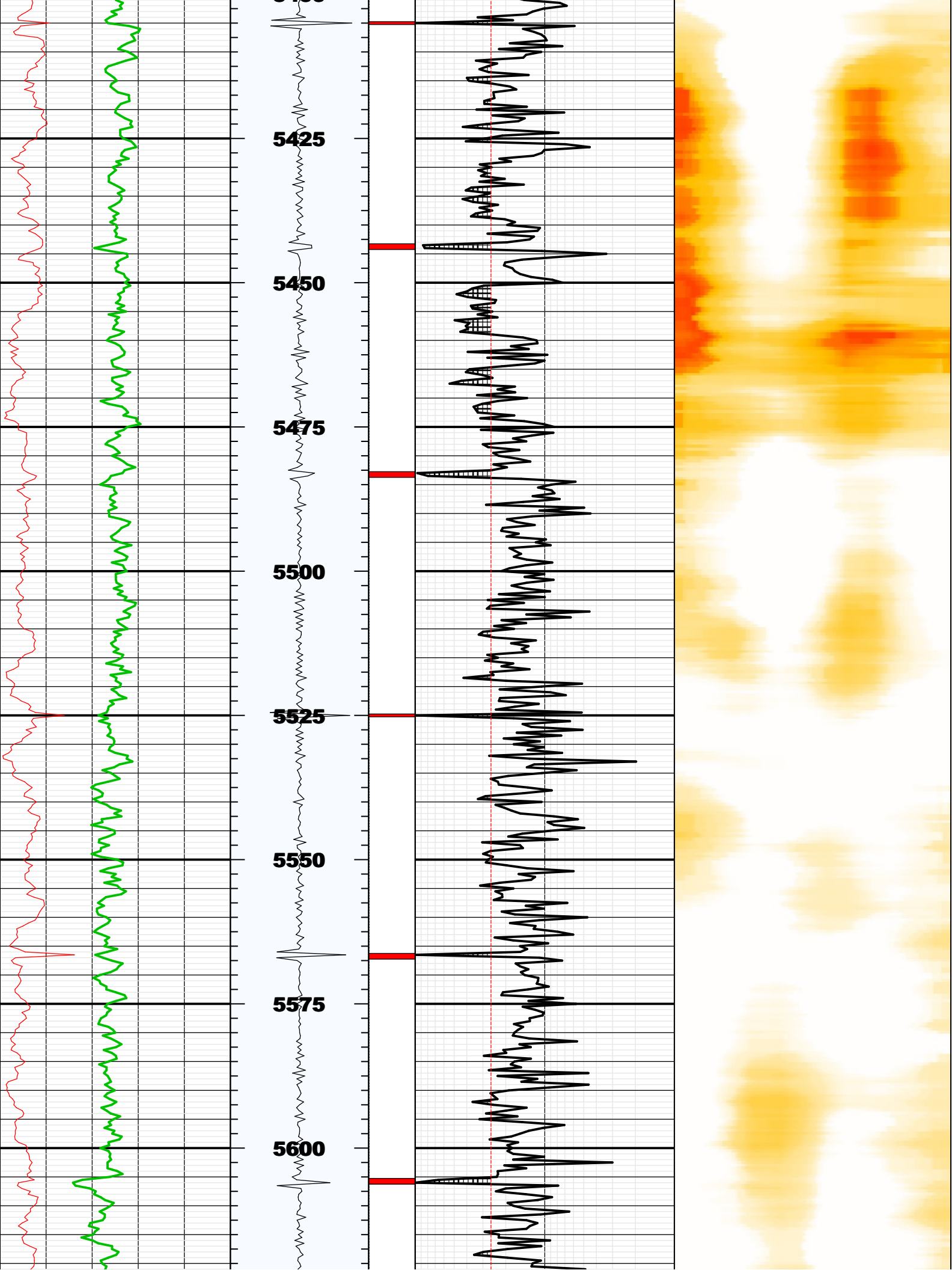


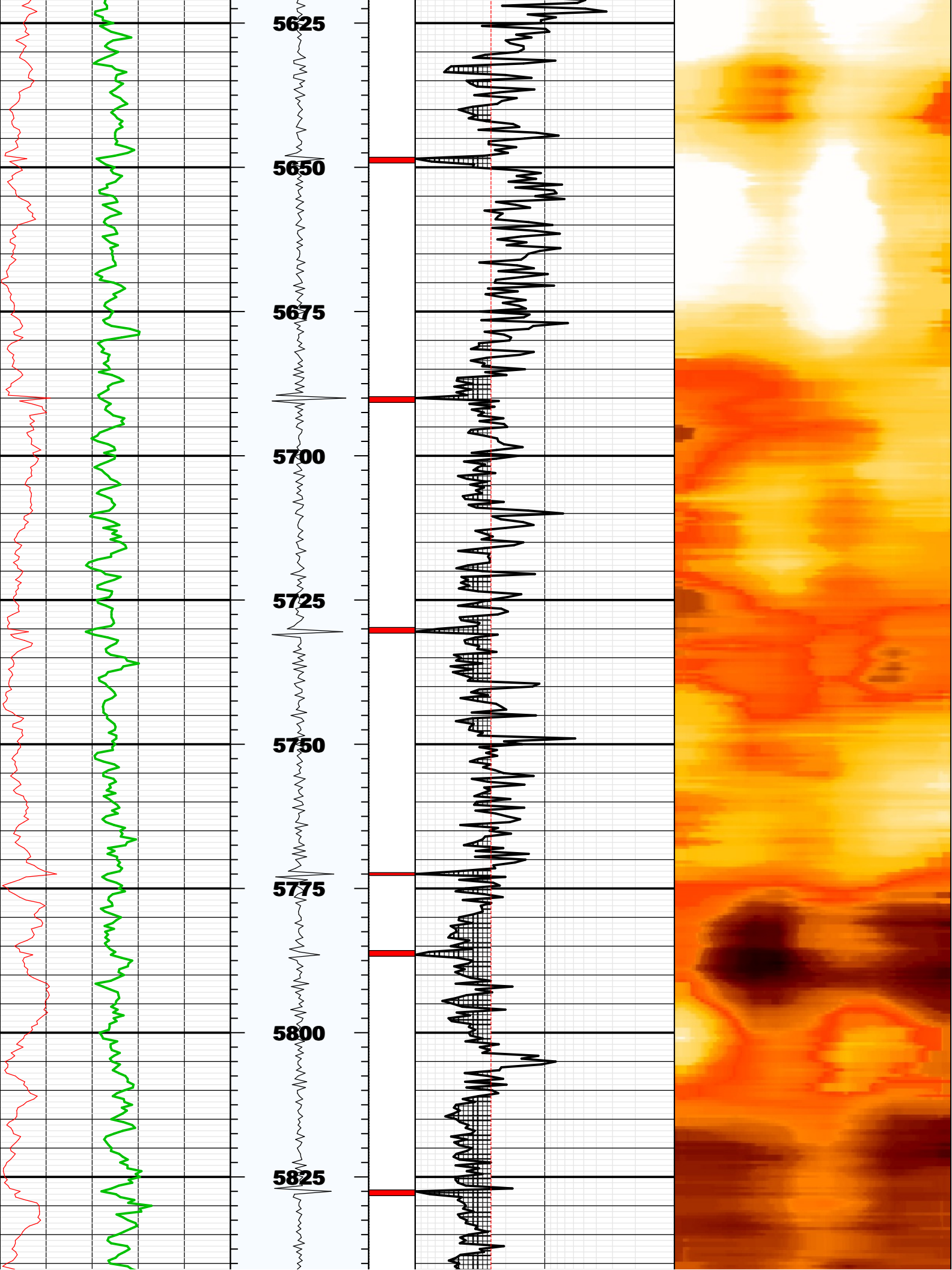




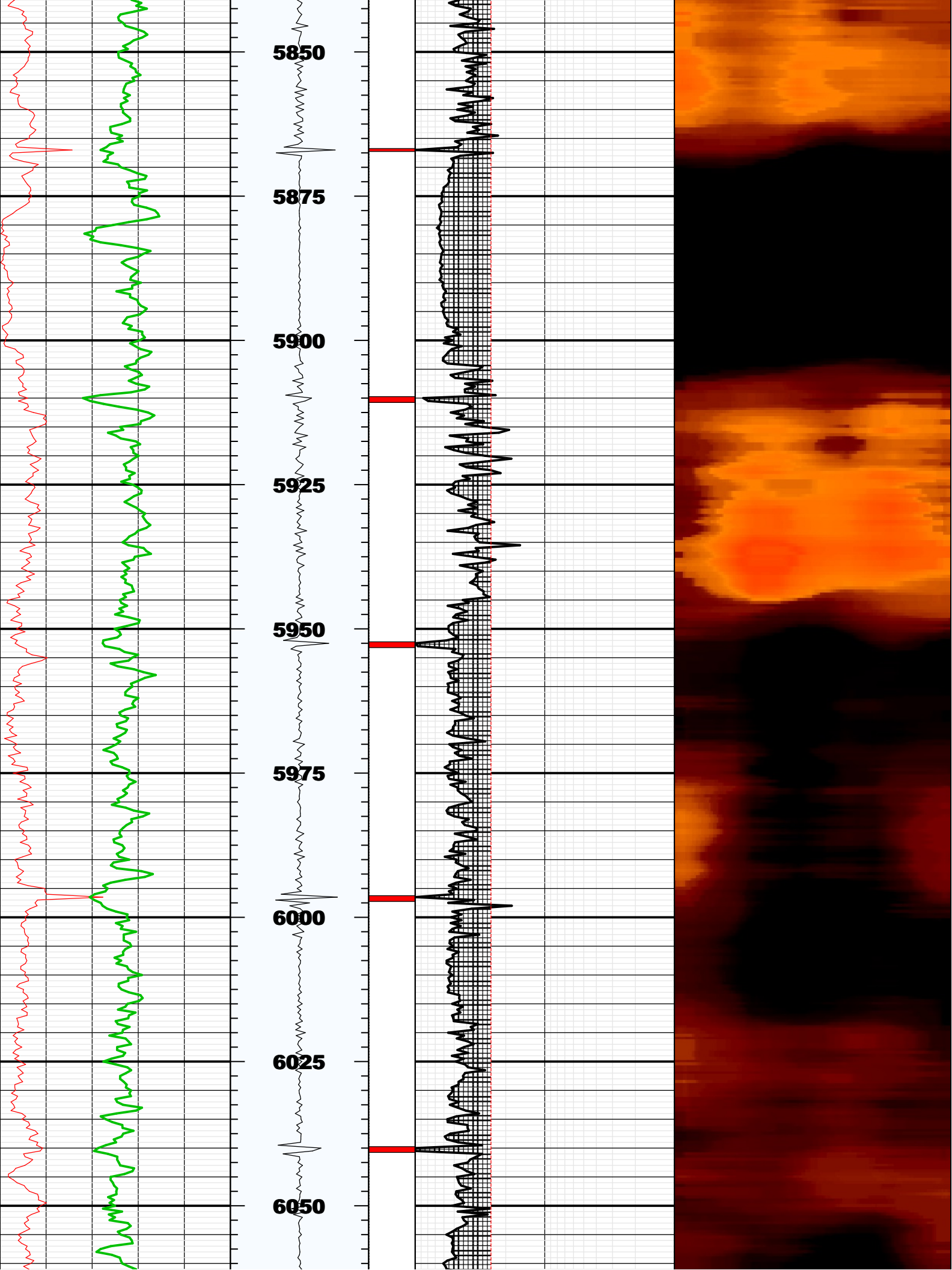


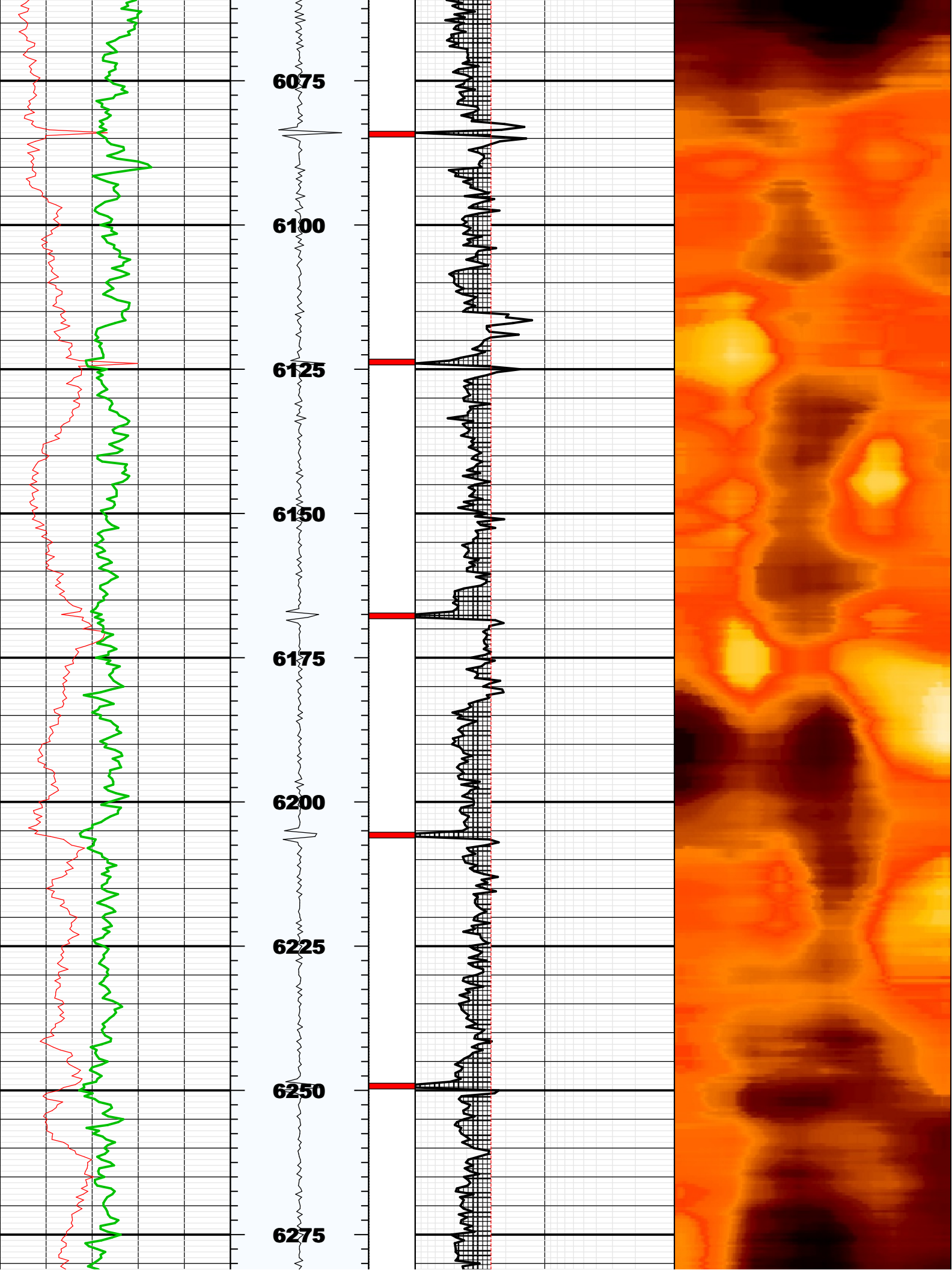


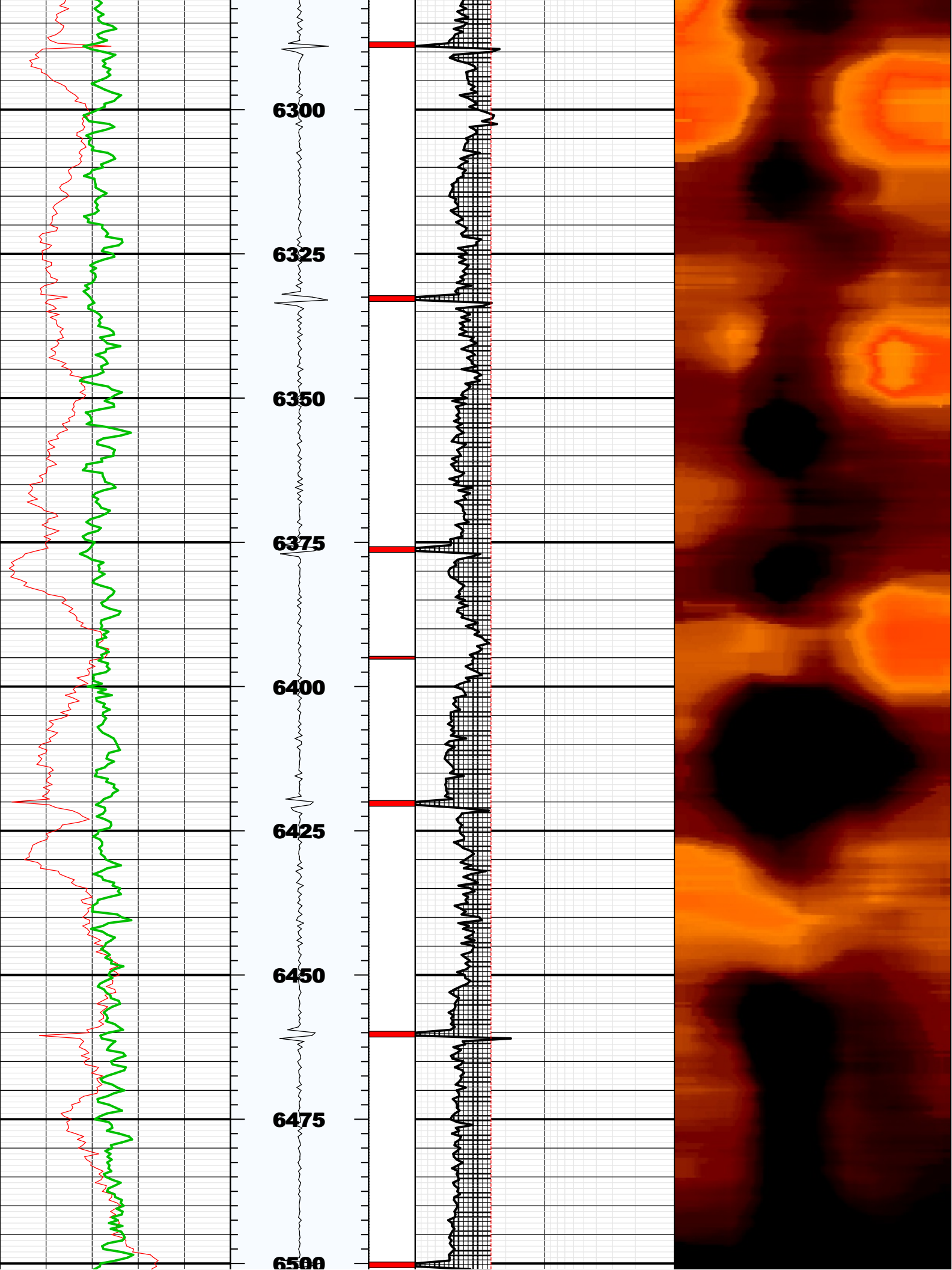


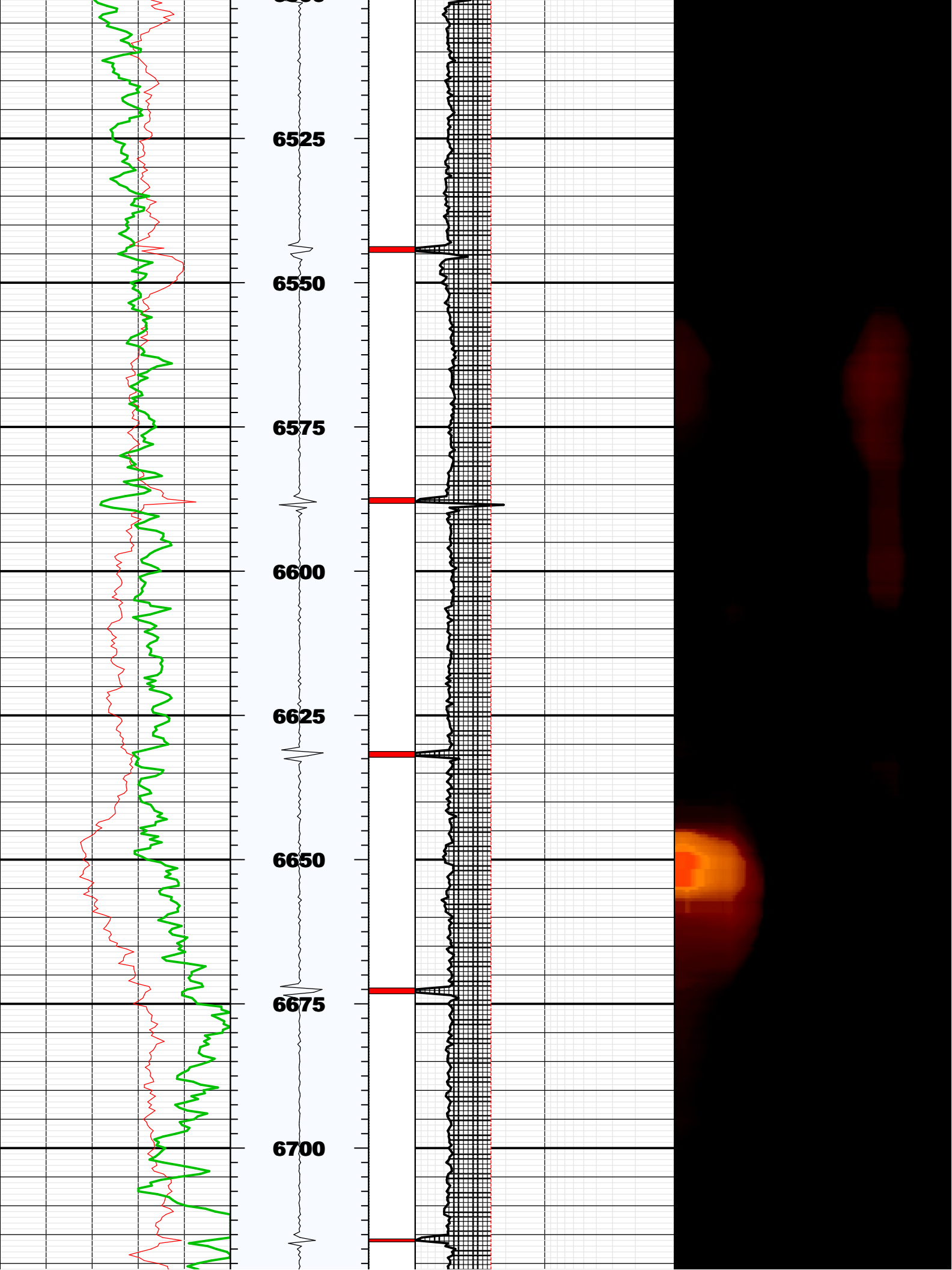




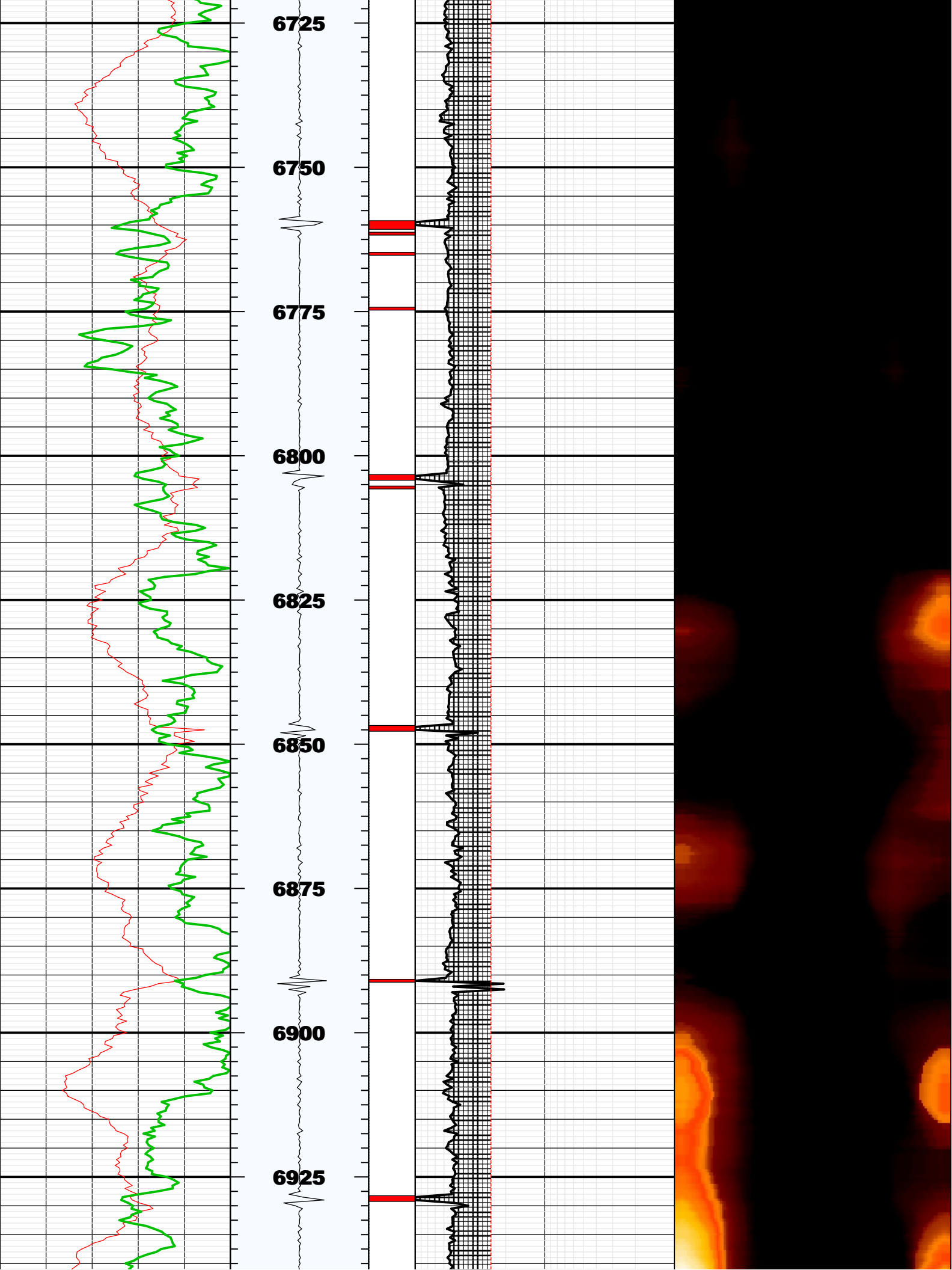


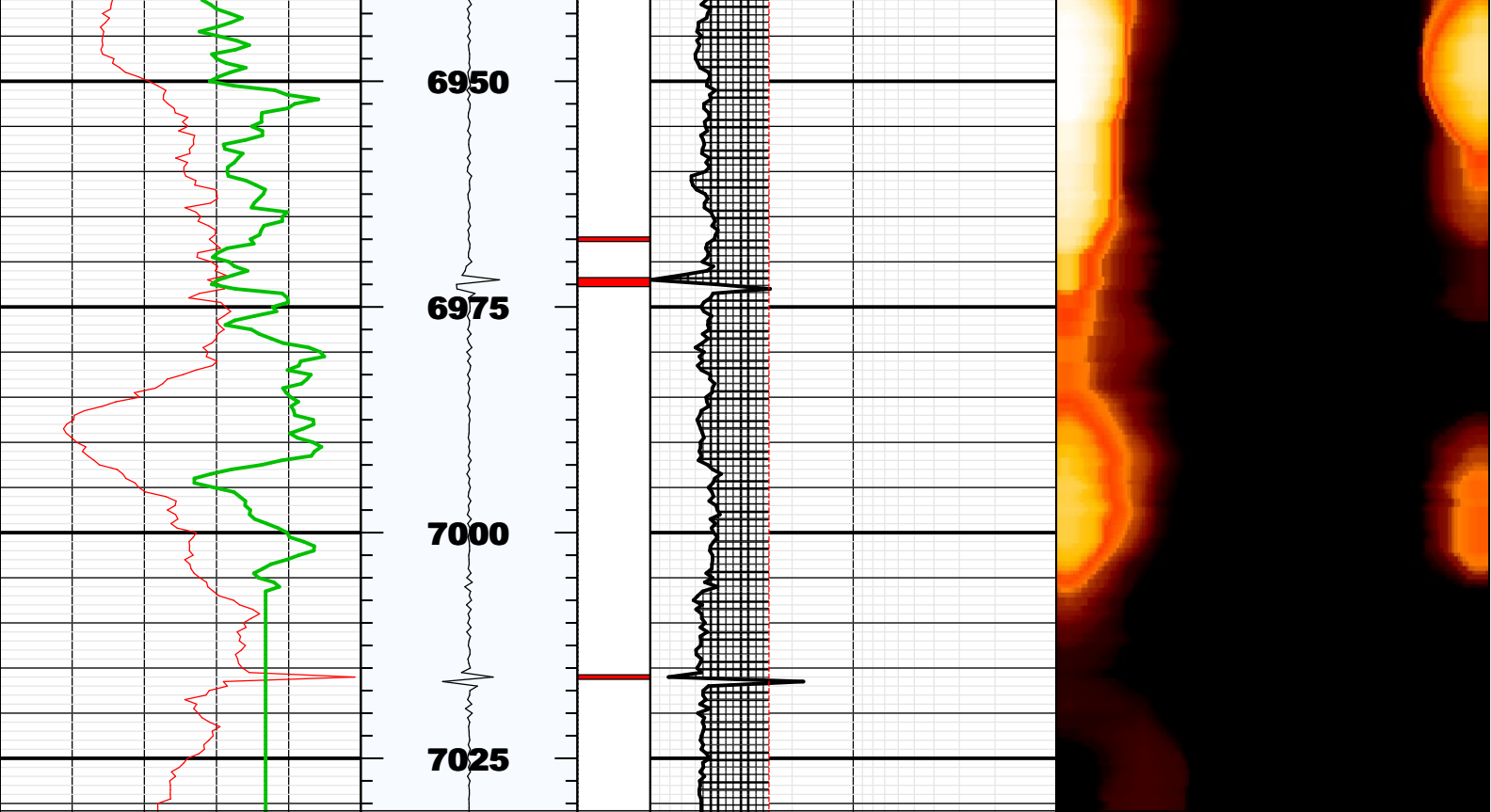










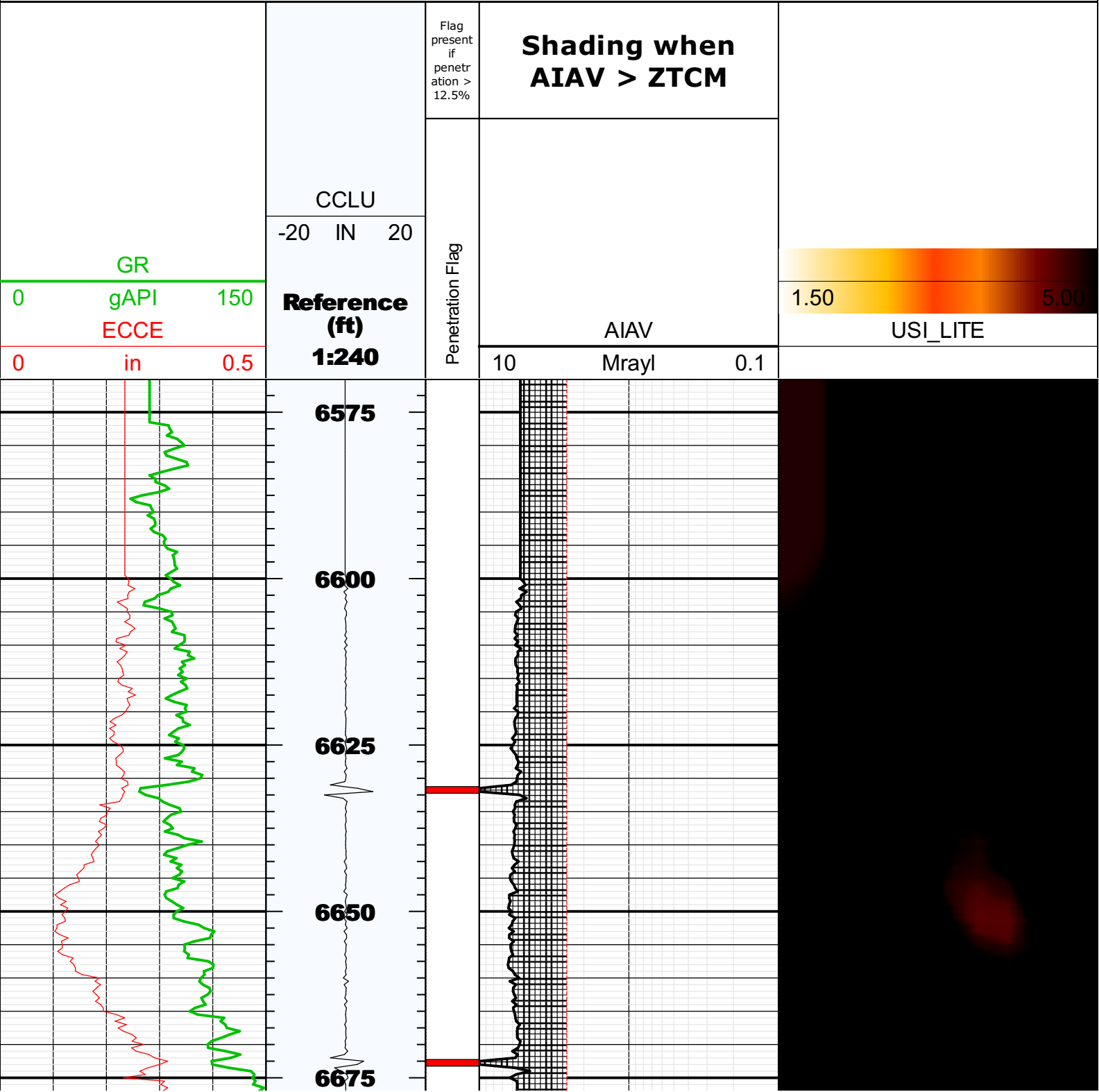


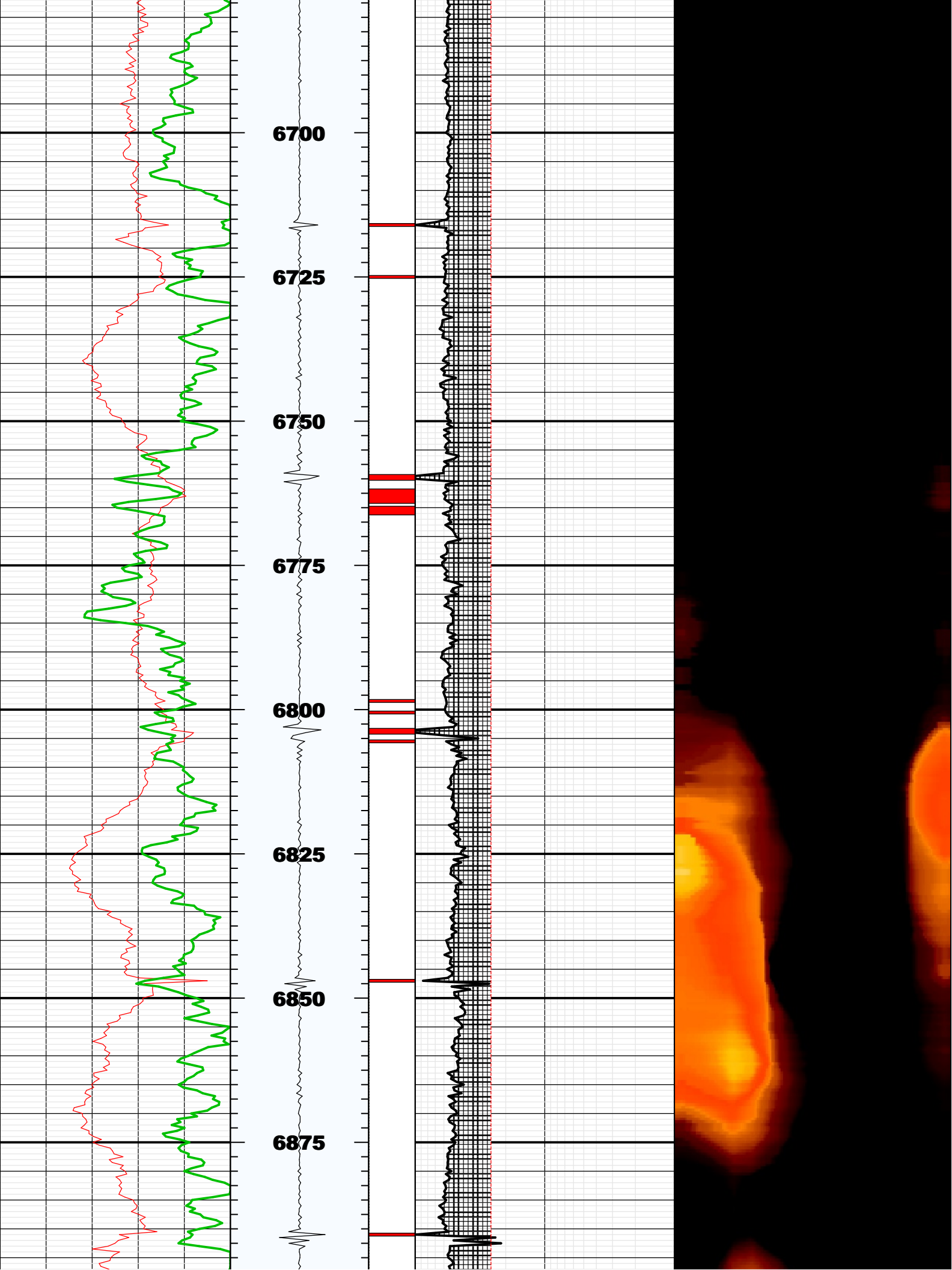
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	10.00000	LB/G	Drilling Fluid Density
DFVL	188.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	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	33.39590	US	Window Begin Time
WINE	75.39471	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 <sup>3</sup> Processing Length

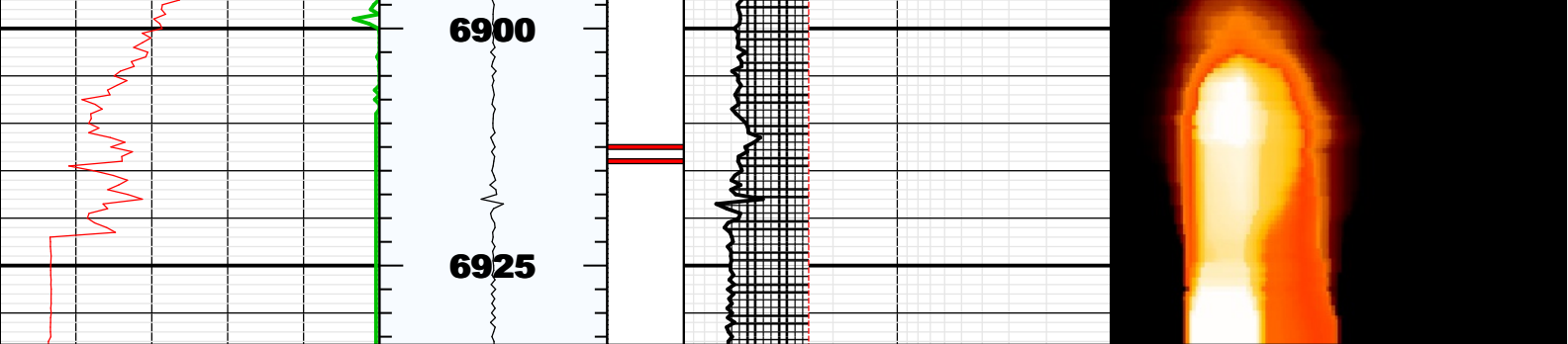


Repeat Pass

Company: Noble Energy Inc  
Well: Steadfast E27-63-1HN  
Field: Wattenberg







## Fluid Properties Used for Main Pass

