

Company: Noble Energy Inc

Well: Davis State LD02-73HN
Field: Wildcat
County: Weld State: Colorado

USI-LITE (2500 psi)											
COUNTY: Weld FIELD: Wildcat LOCATION: SESE 2 9N 58W WELL: Davis State LD02-73HN COMPANY: Noble Energy Inc						LOCATION		Elev: K.B. 4685.9 F G.L. 4662.0 F D.F. 4662.0 F			
						Permanent Datum: Log Measured From: Drilling Measured From:				GL KB KB	
						API Serial No. 05-123-39806				Section 2	
						26-Jan-2015				Township 9N	
Logging Date		Run Number		Run 1		Range 58W					
Depth Driller		5958.0 F									
Schlumberger Depth		5958.0 F									
Bottom Log Interval		5802.0 F									
Top Log Interval		50.0 F									
Casing Fluid Level		8.0 F									
Salinity											
Density		8.40 LB/G									
Fluid Level		8.0 F									
BIT/CASING/TUBING STRING											
Bit Size		8.750 IN									
From		1227.0 F									
To		5958.0 F									
Casing Size		7.00 IN									
Weight		26.00 LB/F									
Grade		P110									
From		0.0 F									
To		5948.3 F									
Max Recorded Temp		220.0									
Logger on bottom (date)		26-Jan-2015									
Location		Fort Morgan									
Recorded By		Tezia Hayduk									
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: 14500.00000

DISCLAIMER

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2500psi main pass 0psi repeat pass

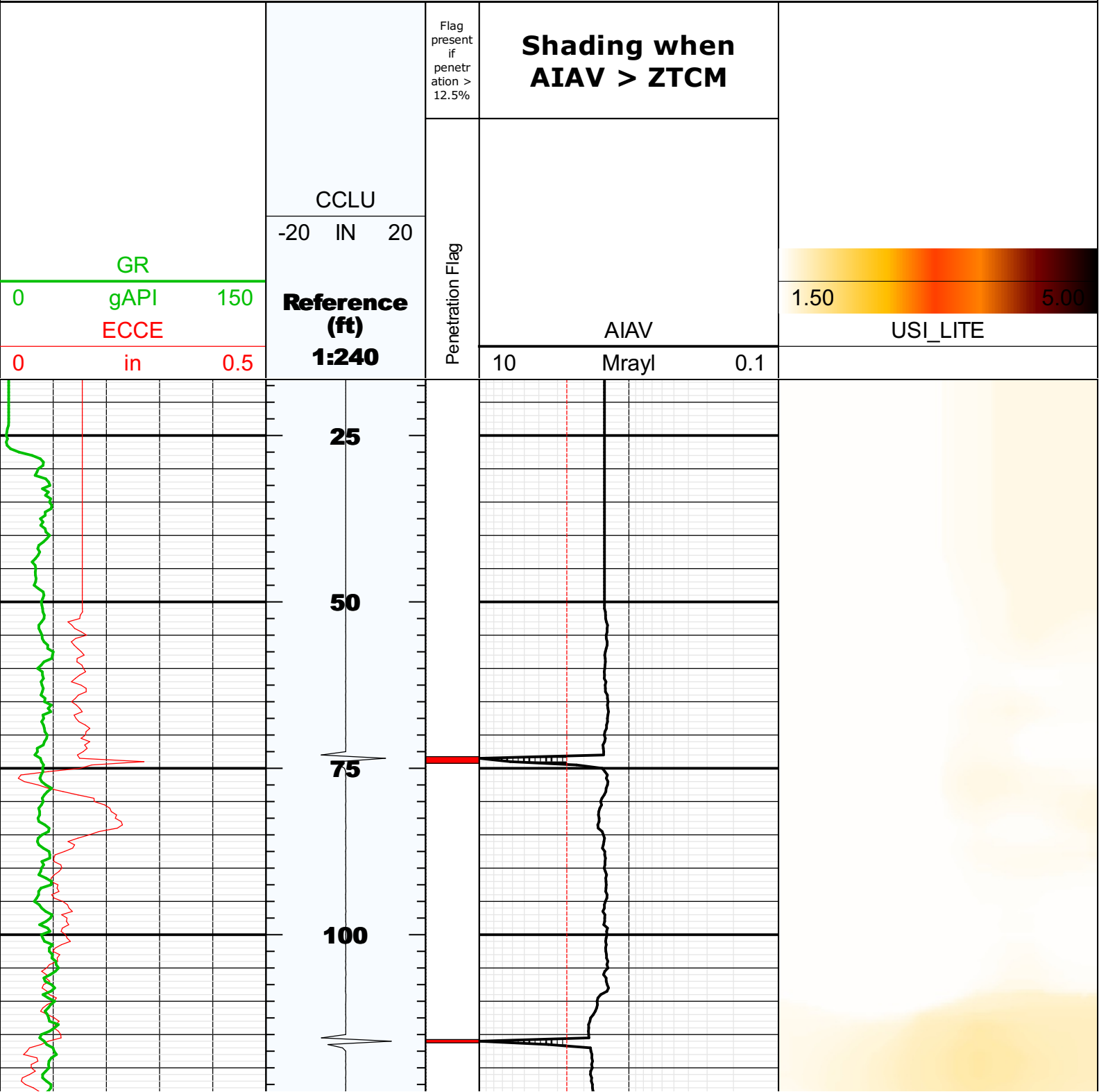
Top of cement seen at 995'.

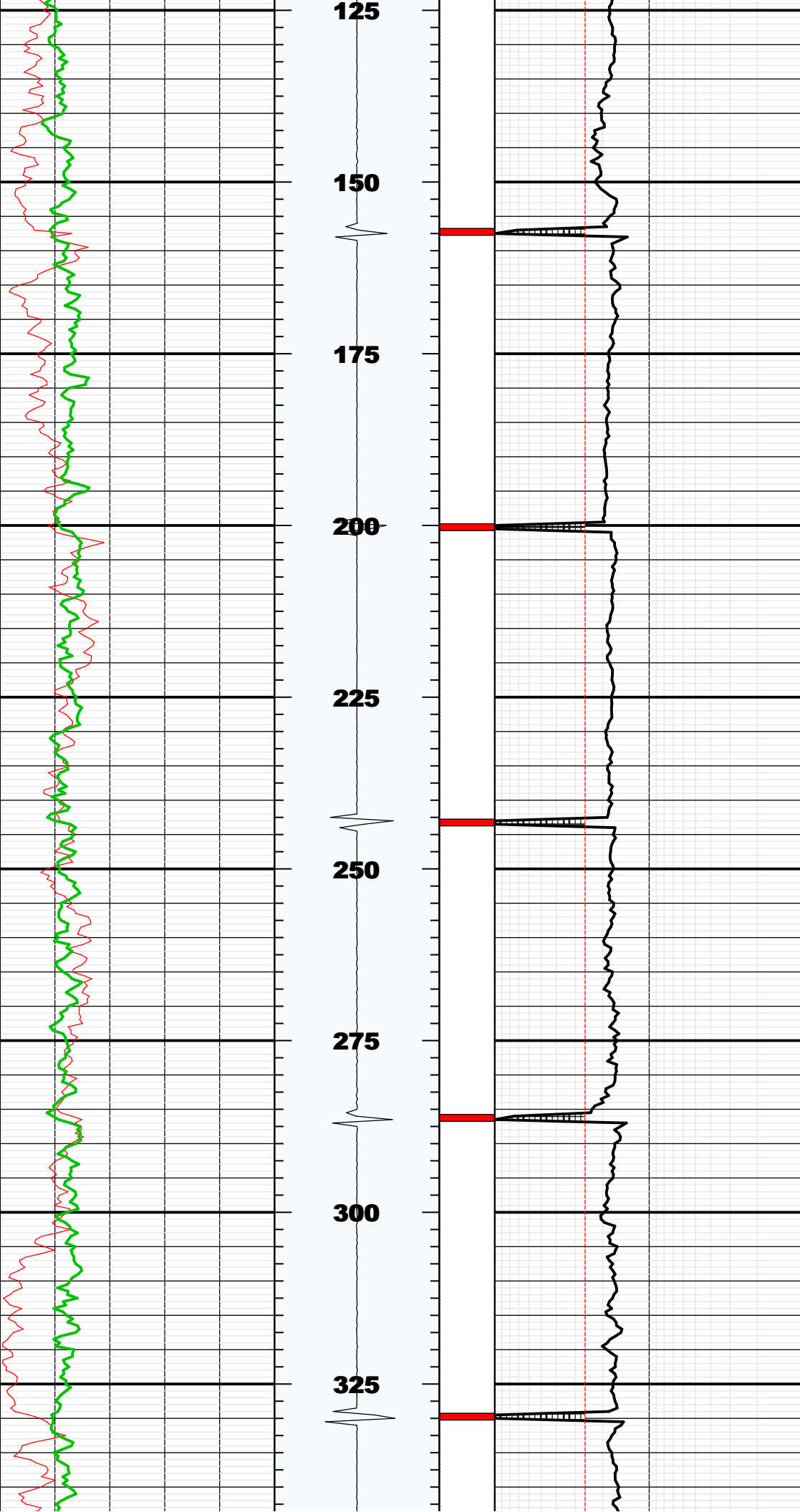
Logged from top of liner to surface.

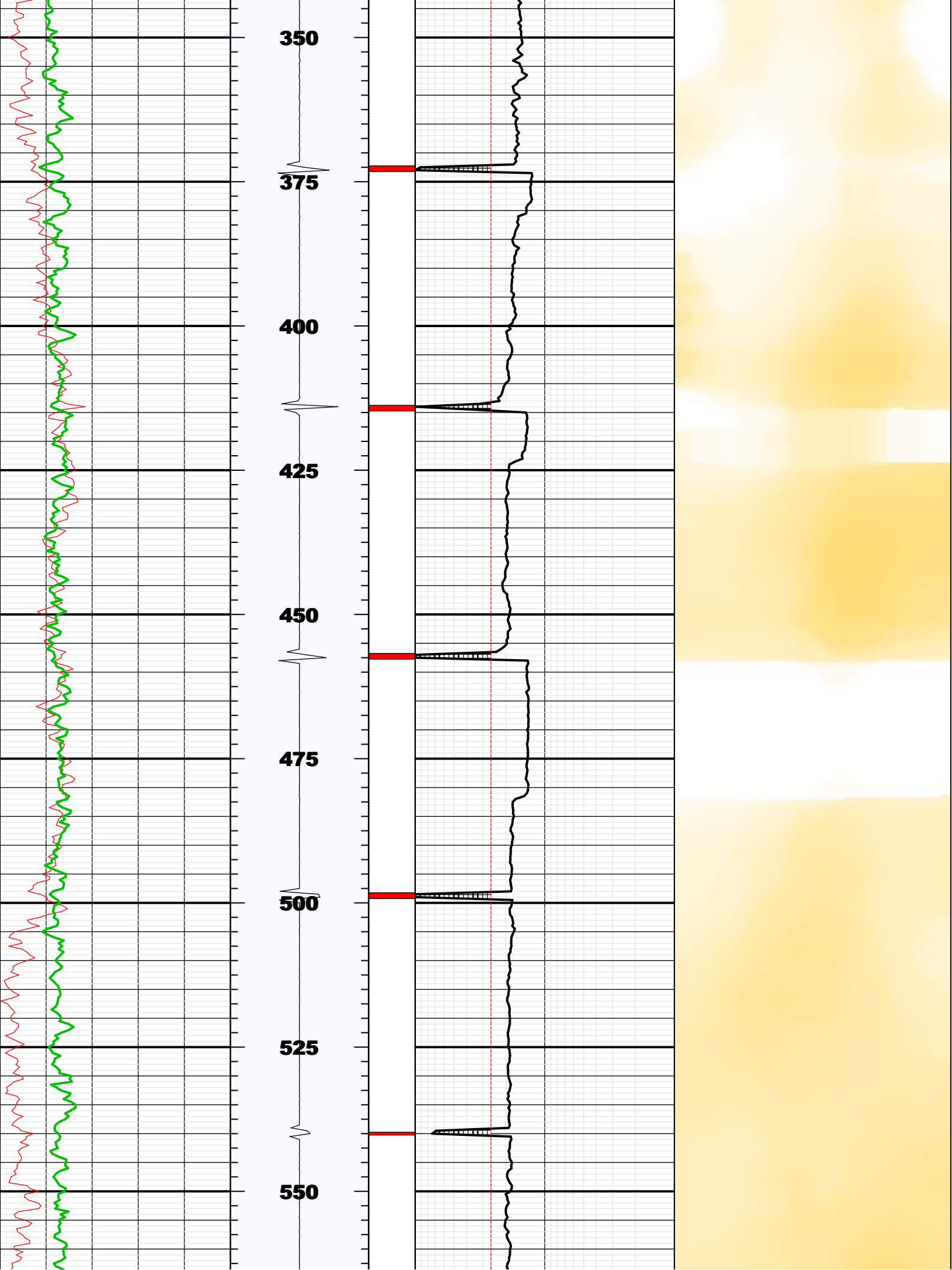
Bottom hole temperature = 220F measured at depth.

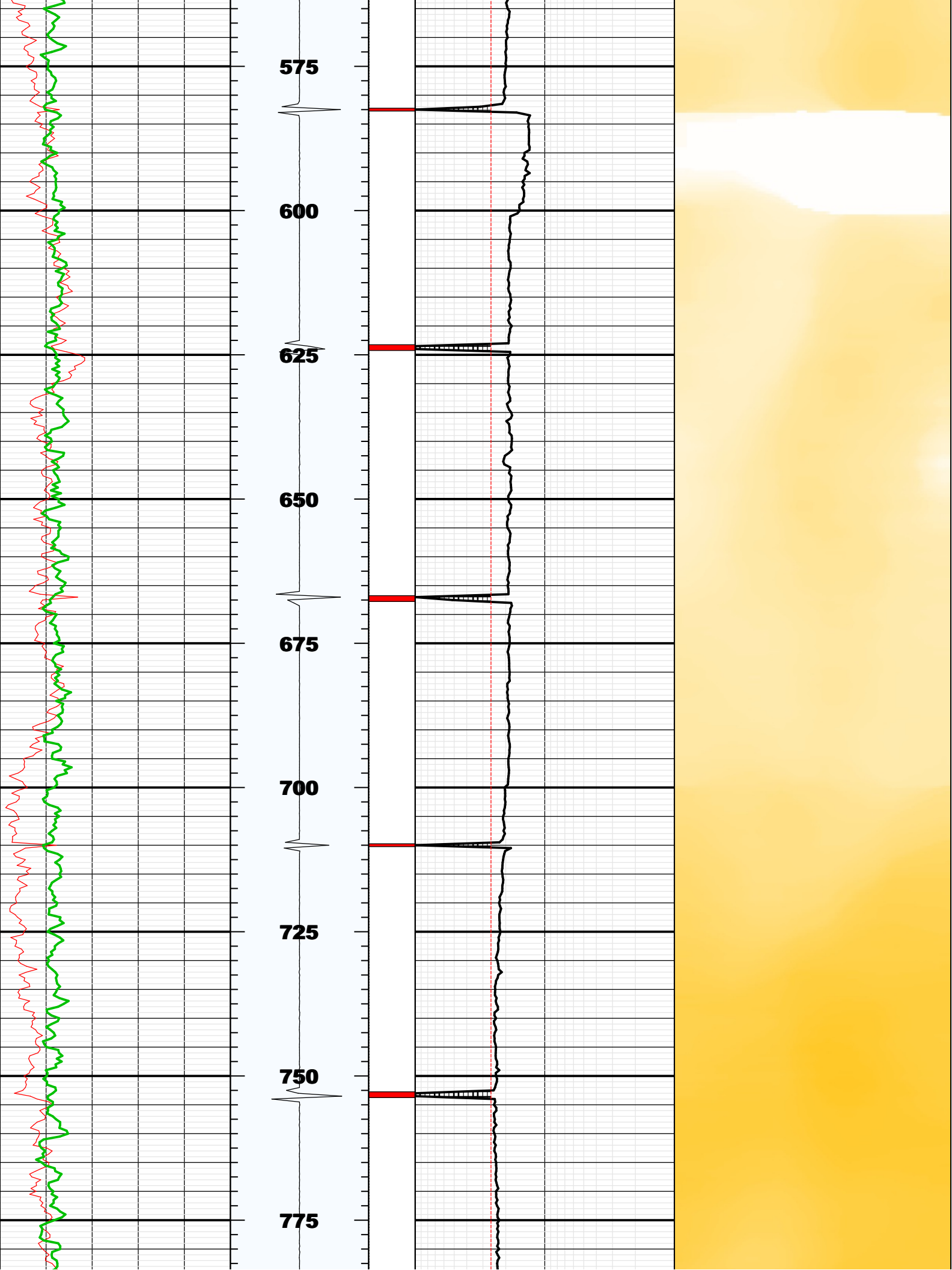
Main Pass

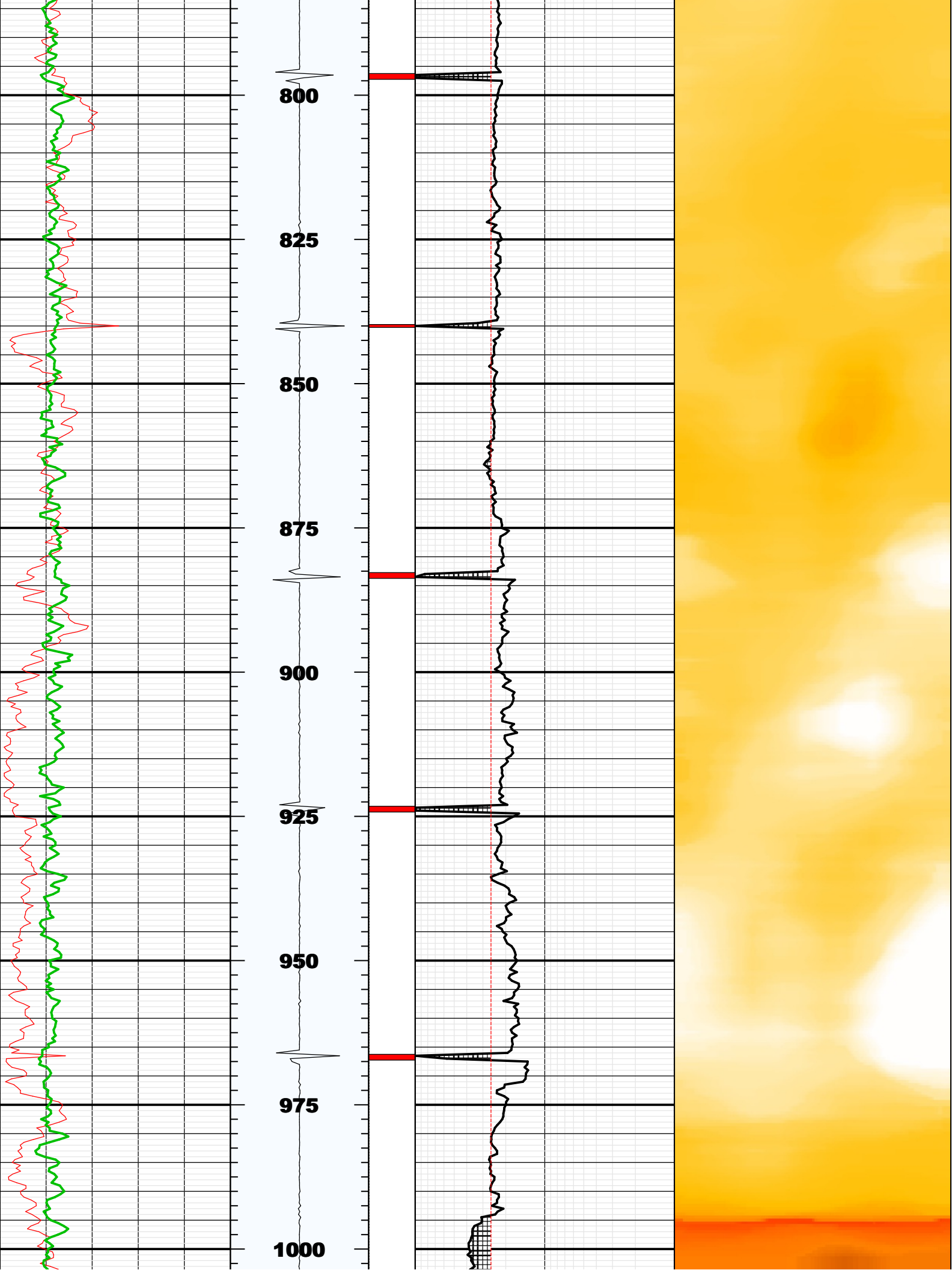
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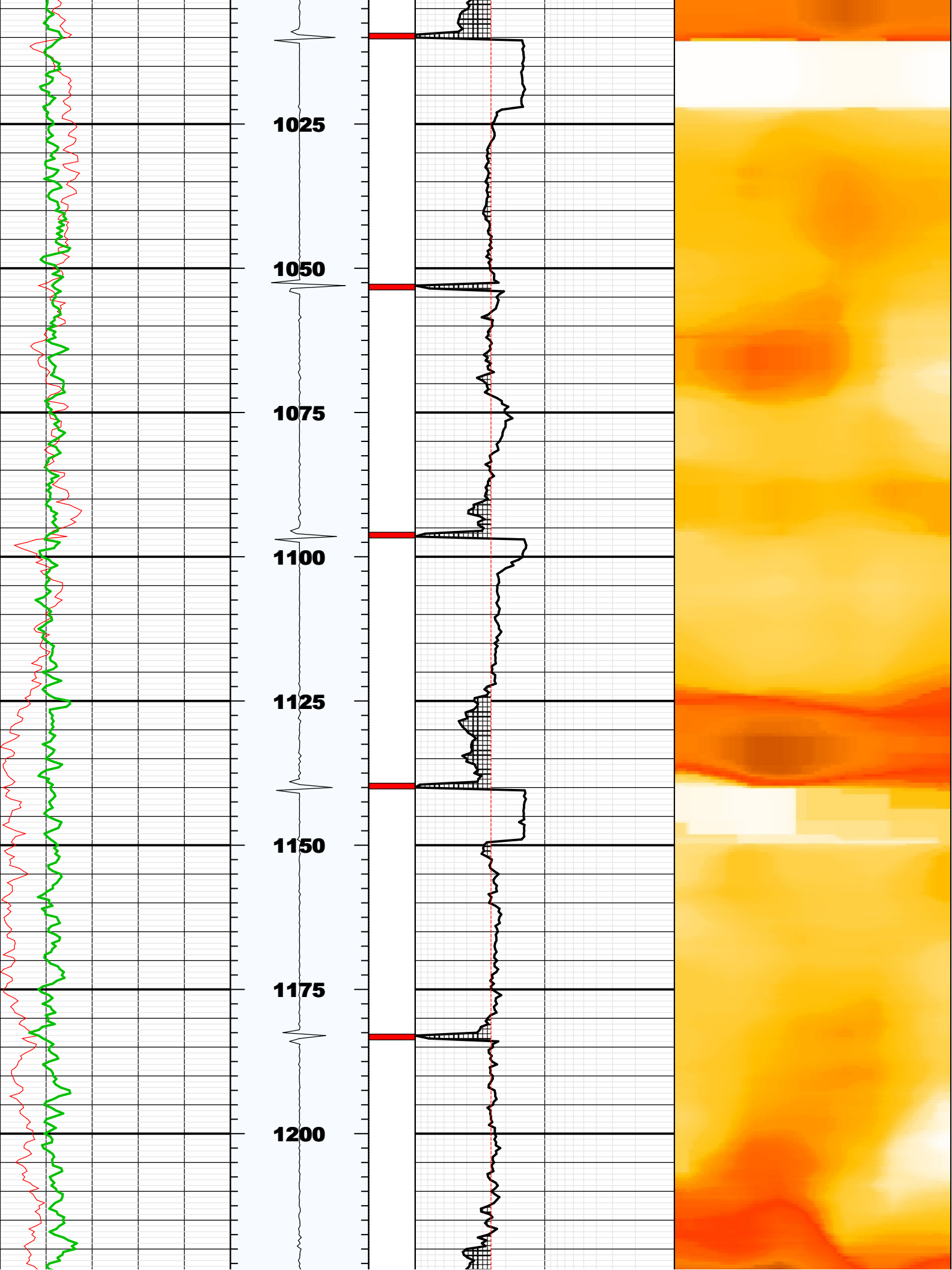


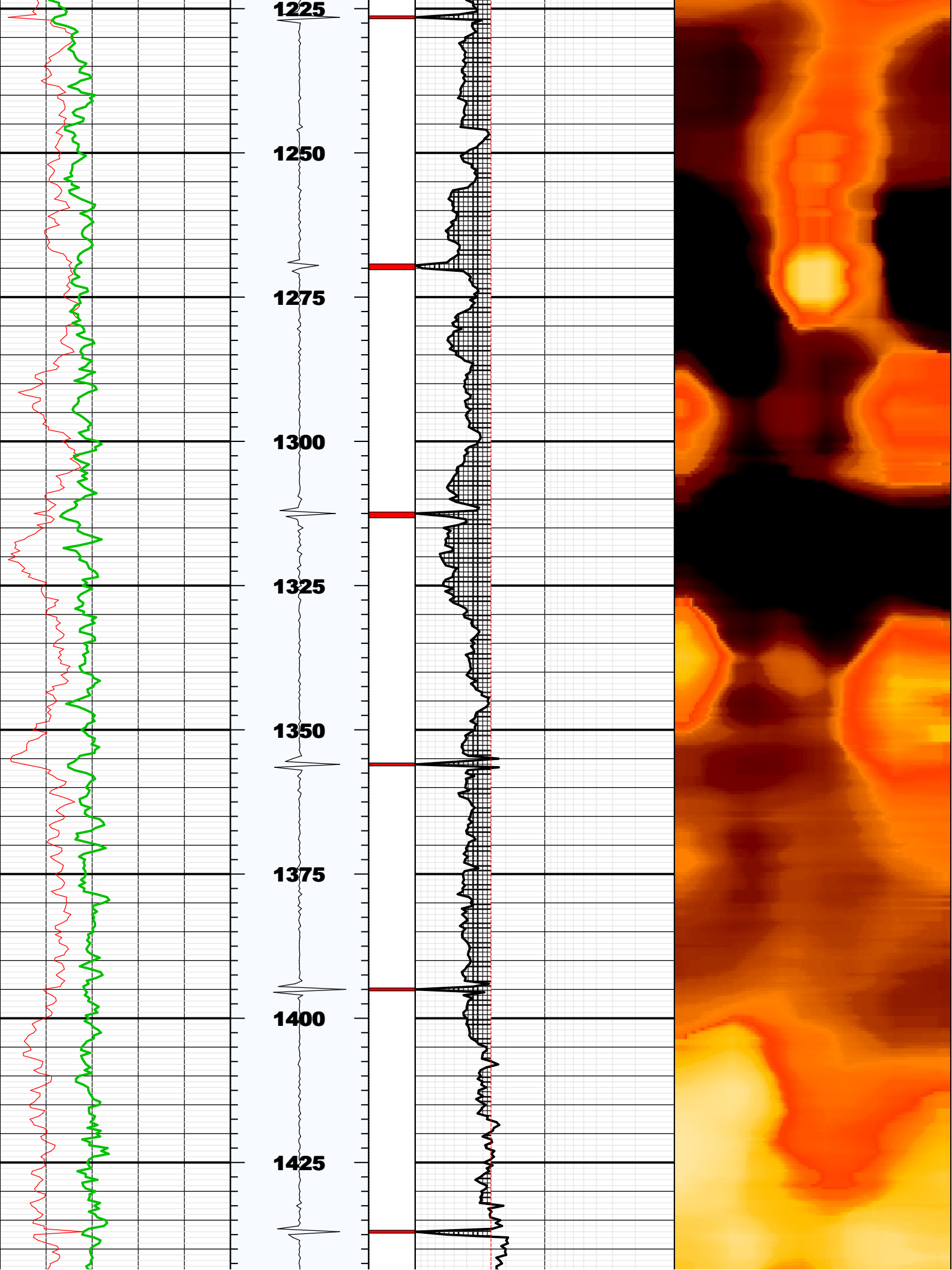


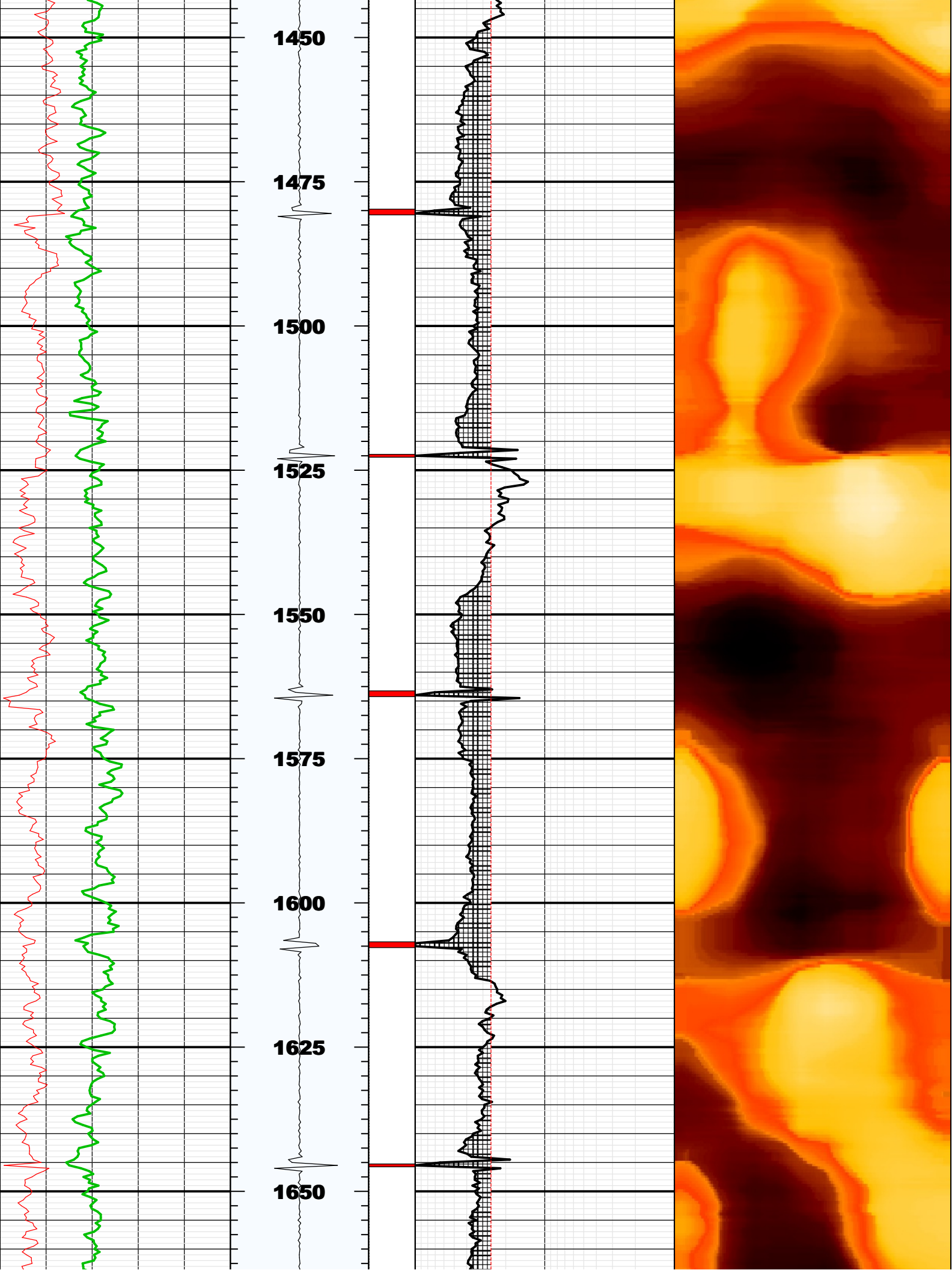


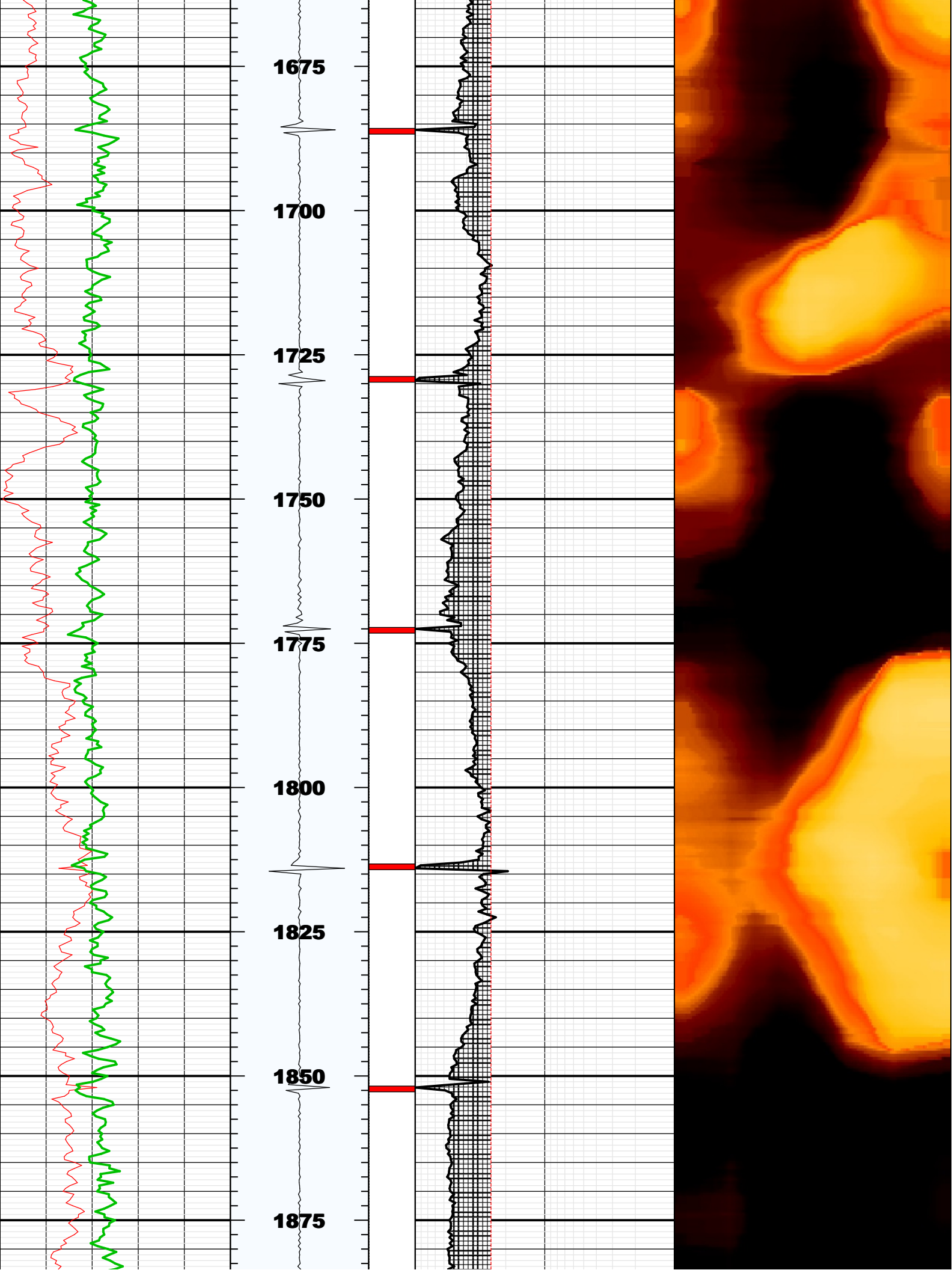


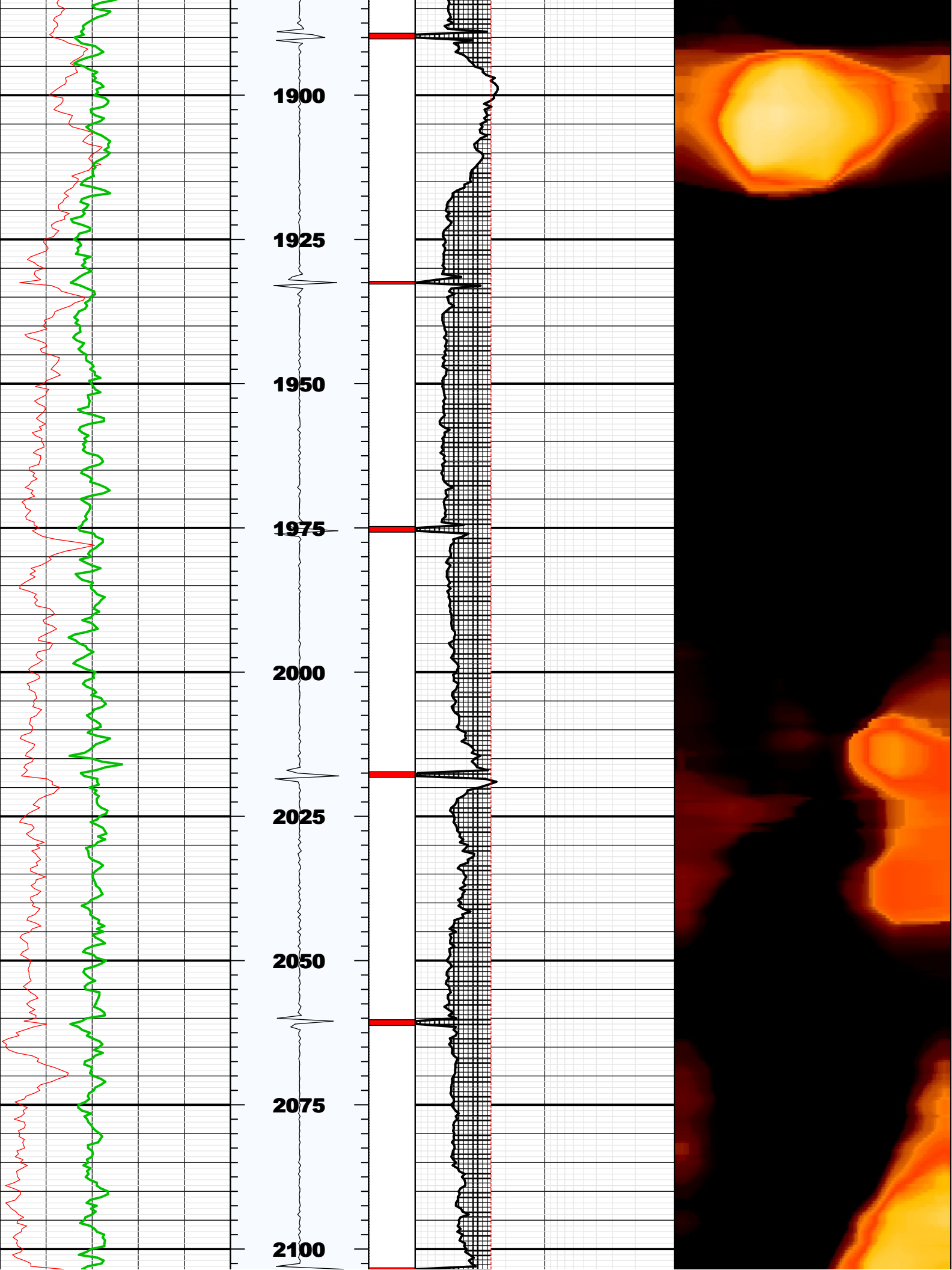


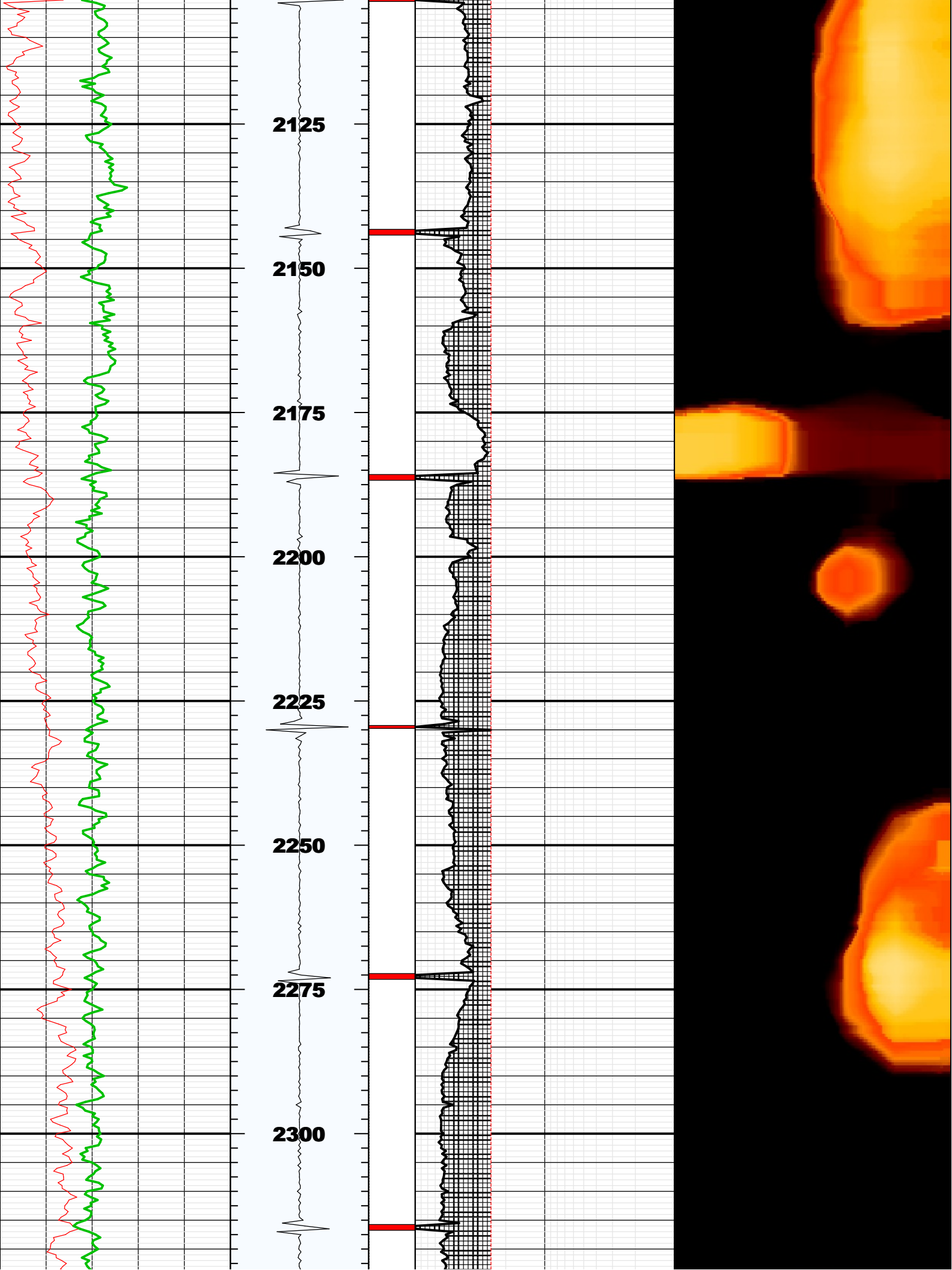


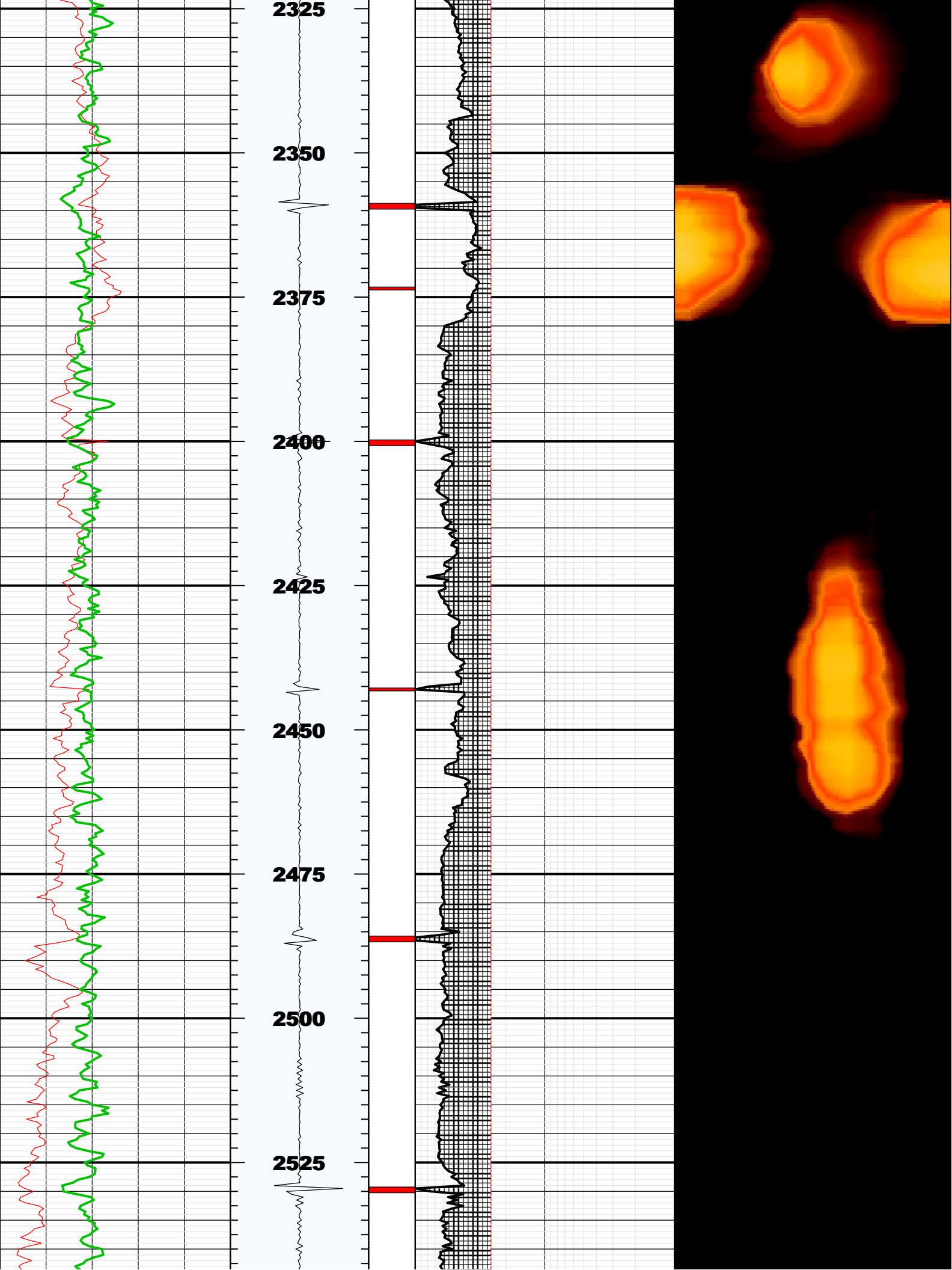


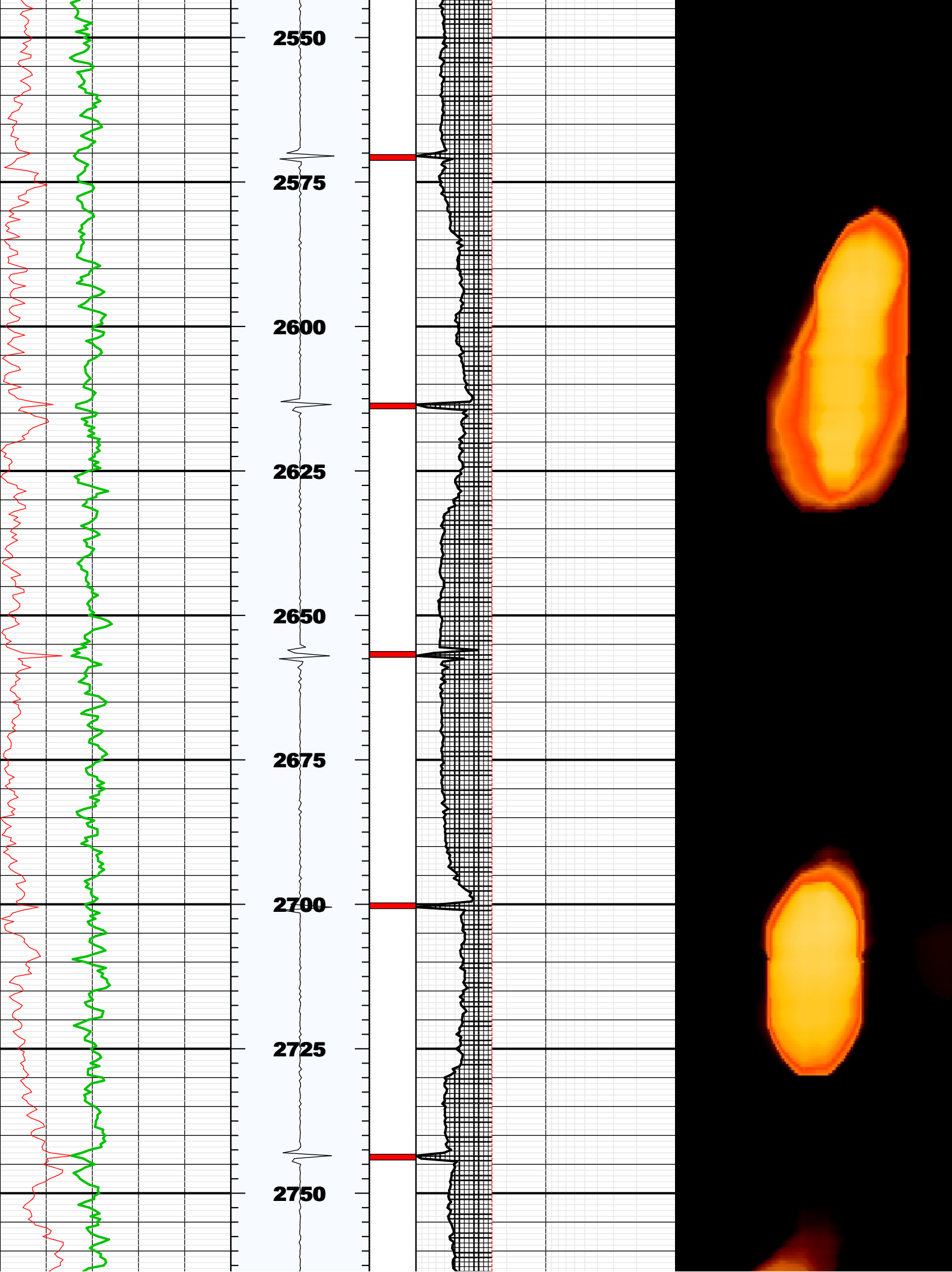


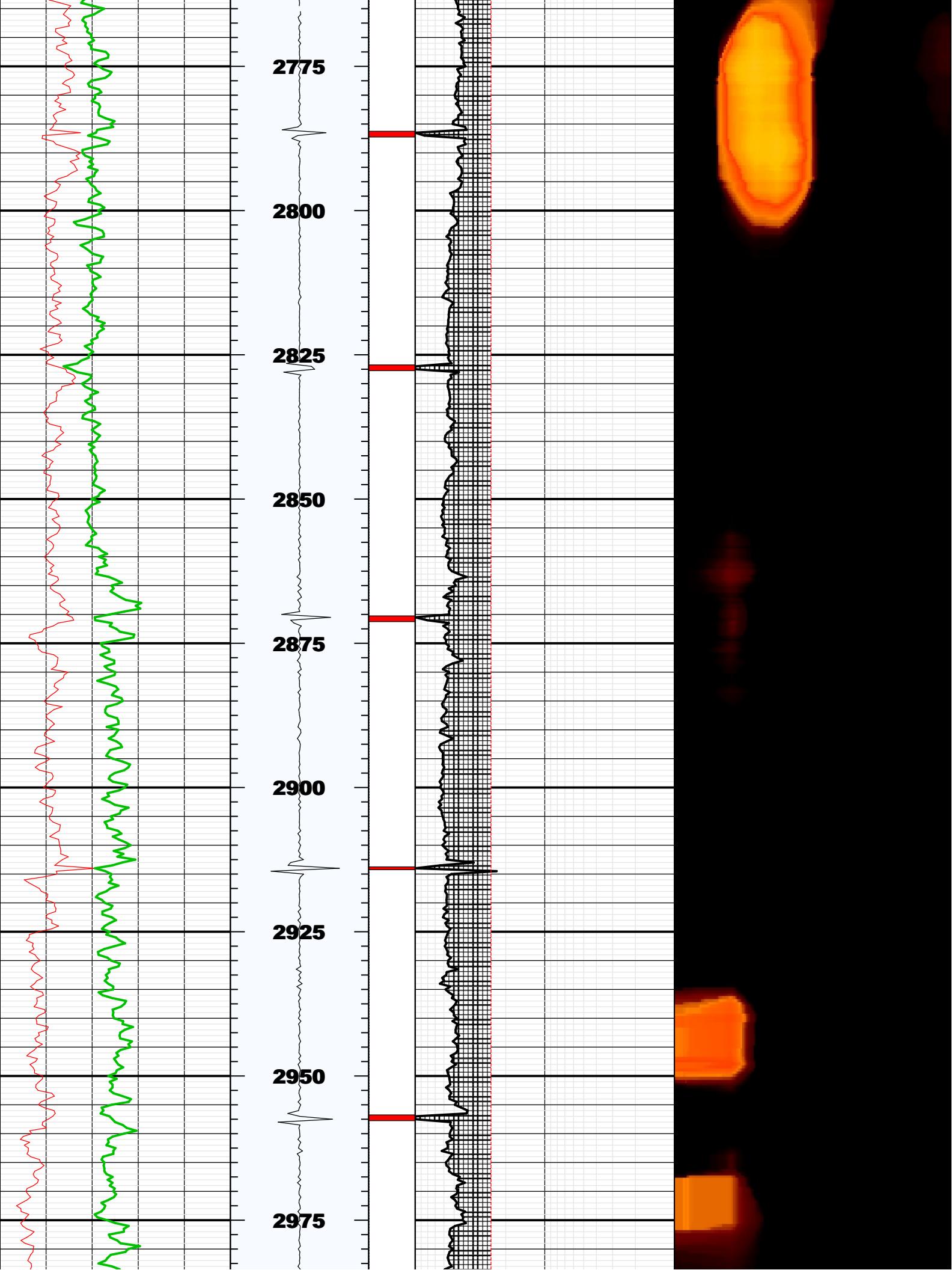


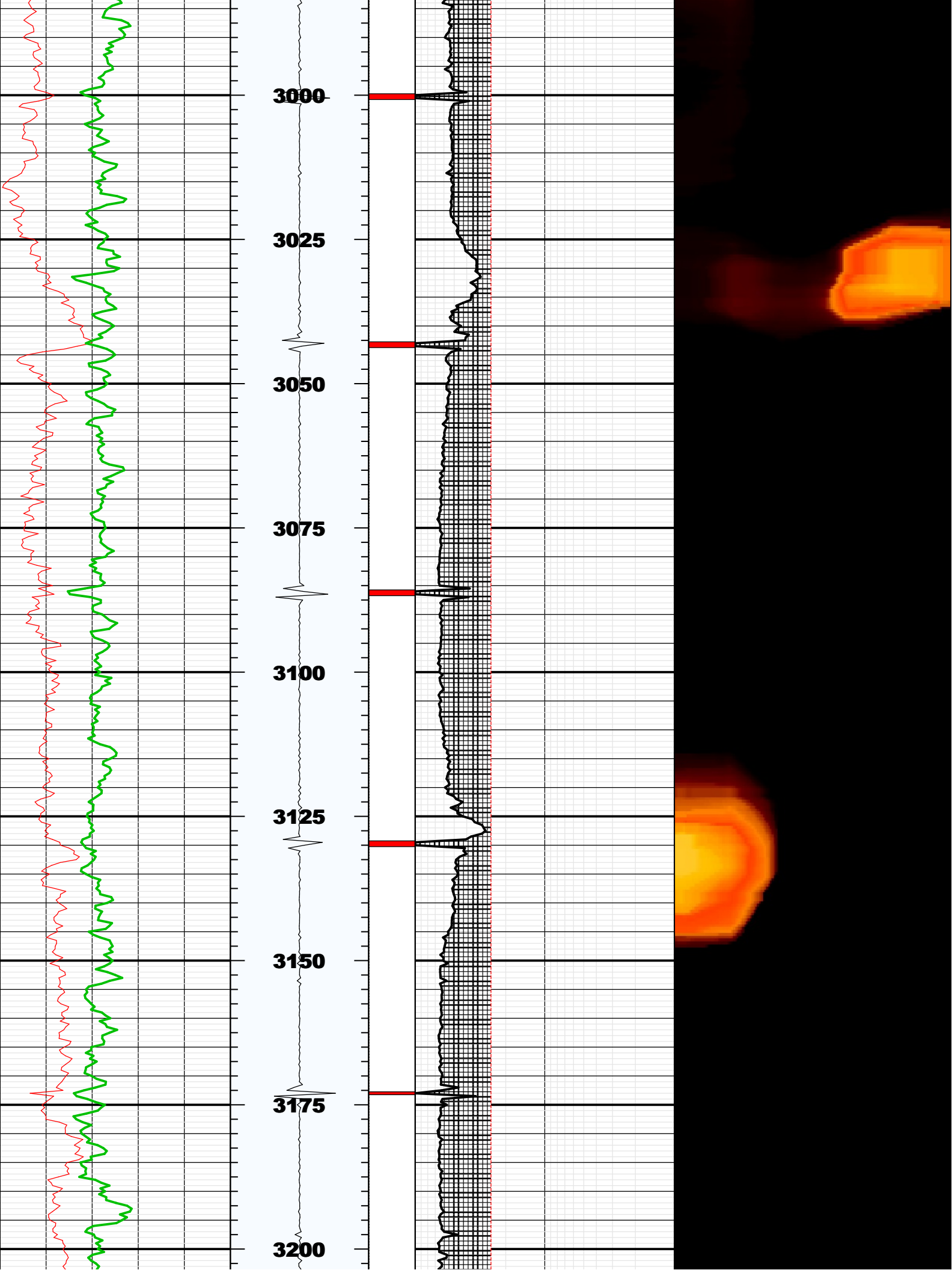


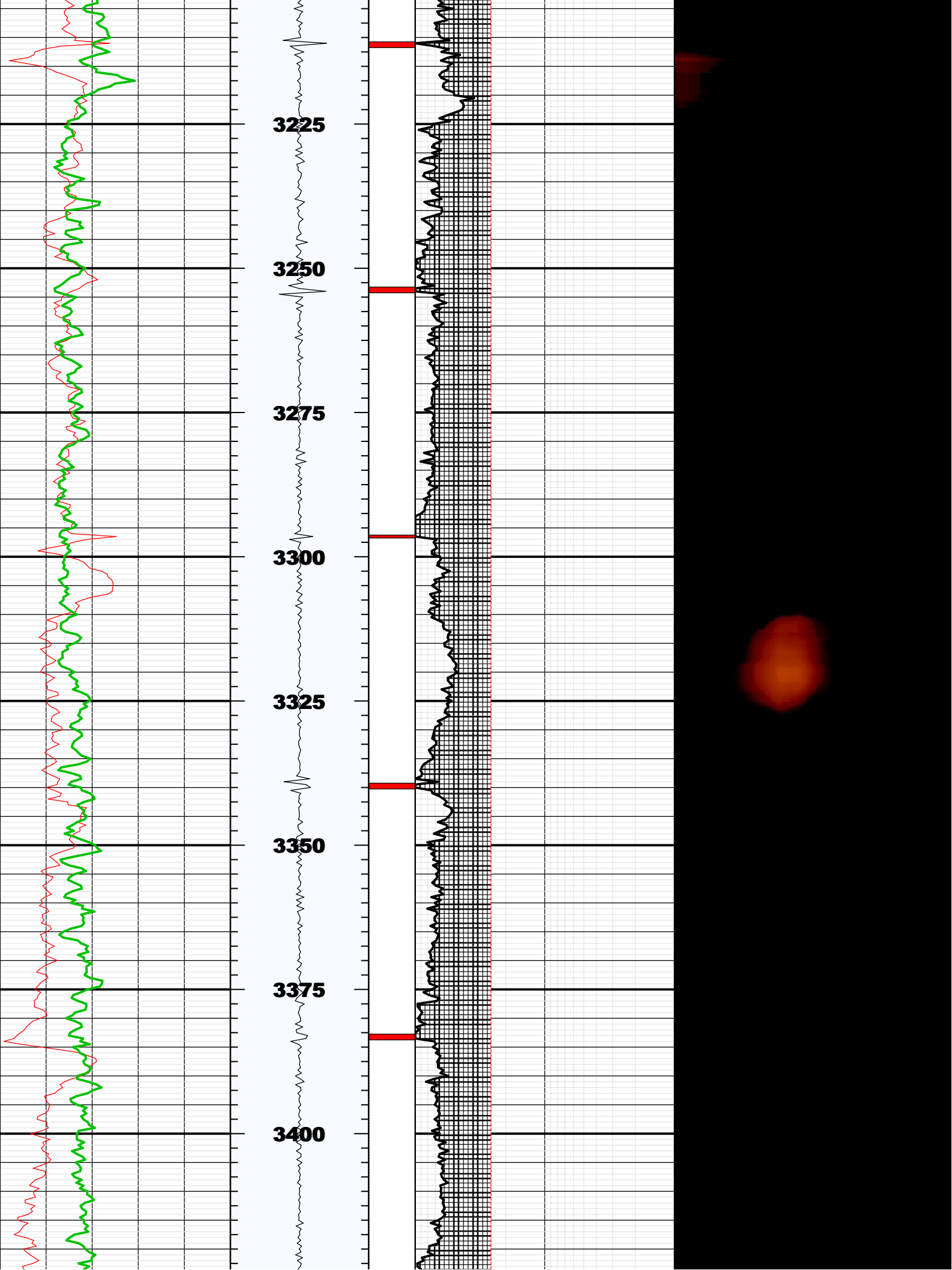


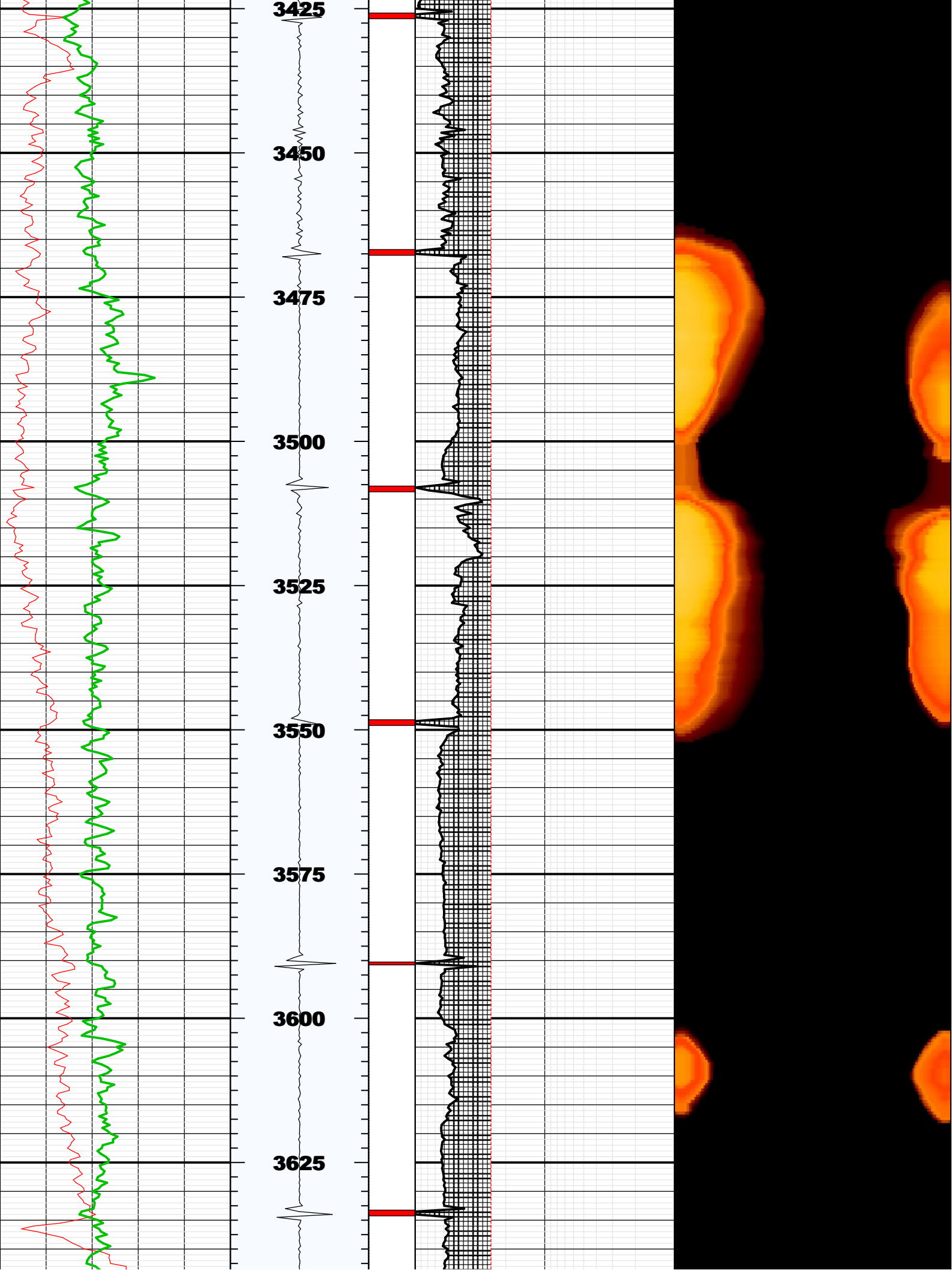


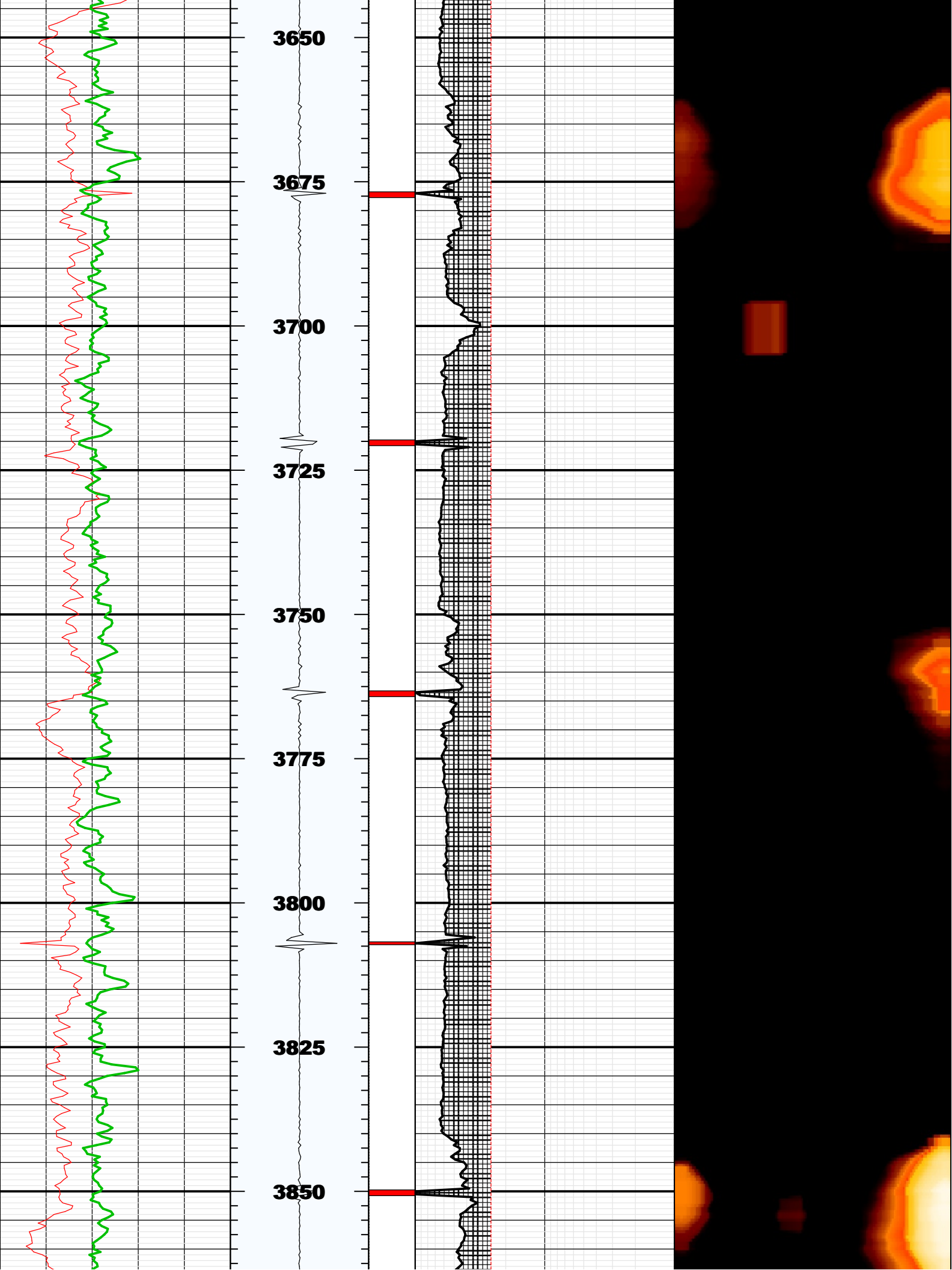


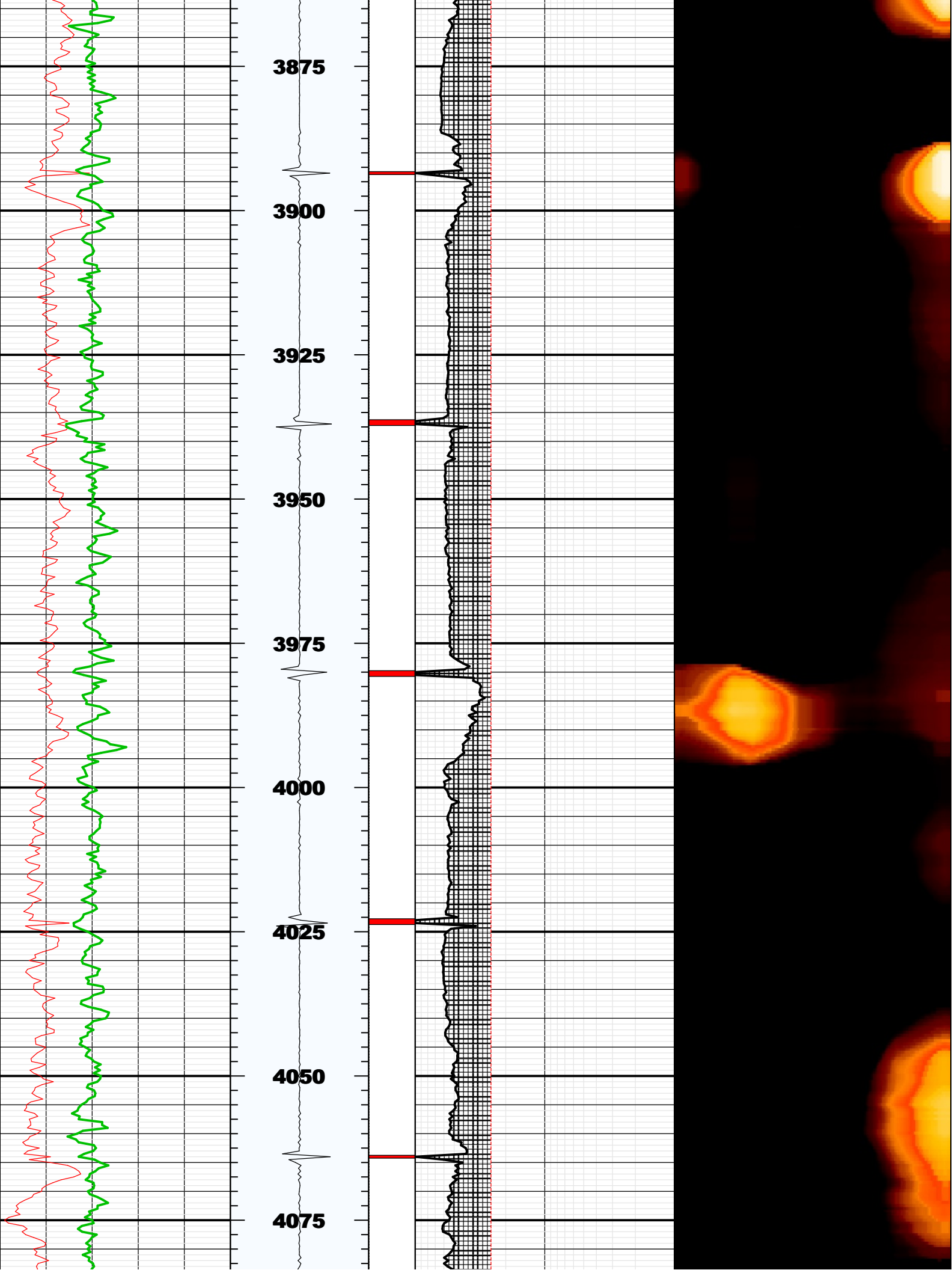


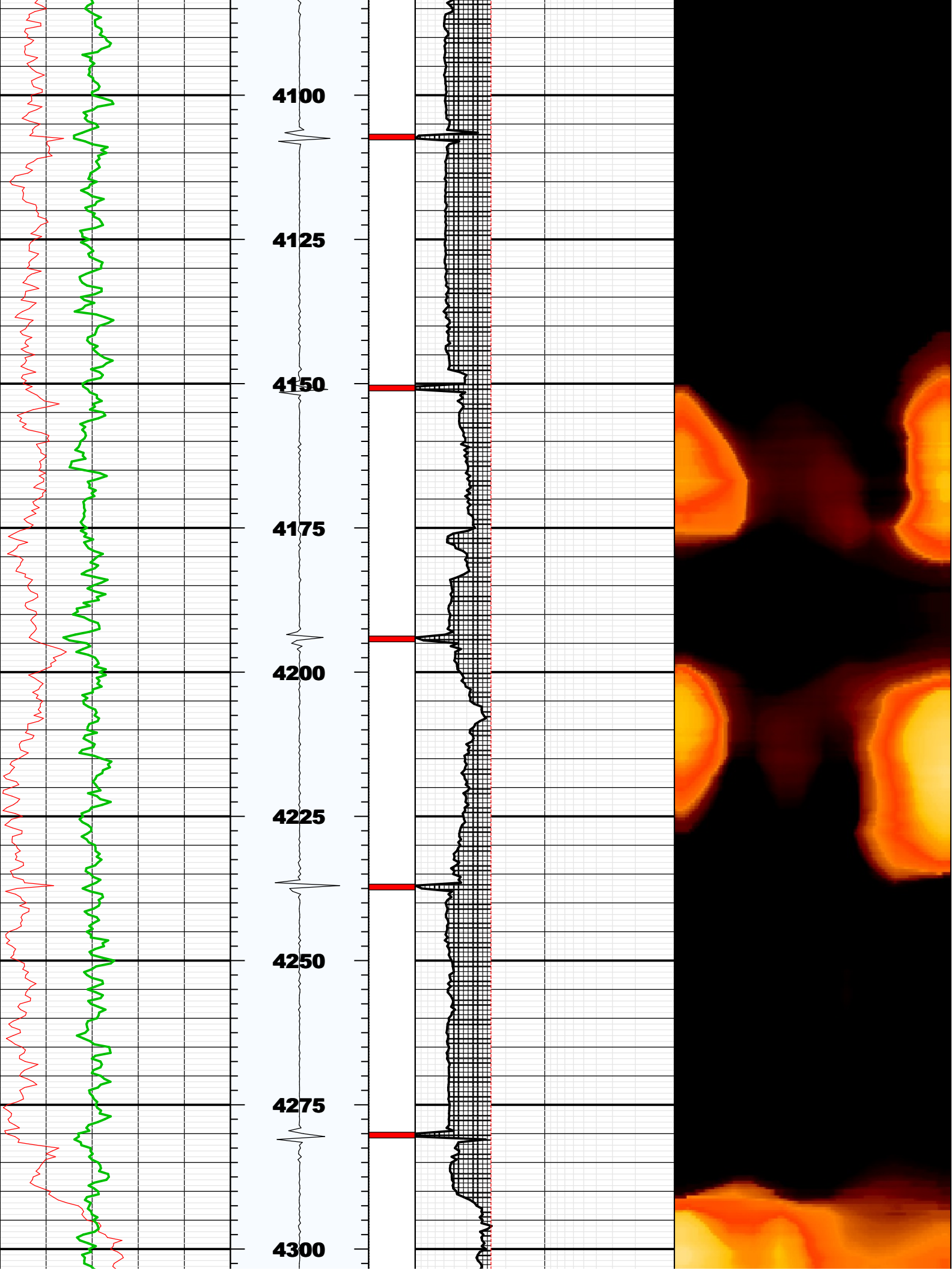


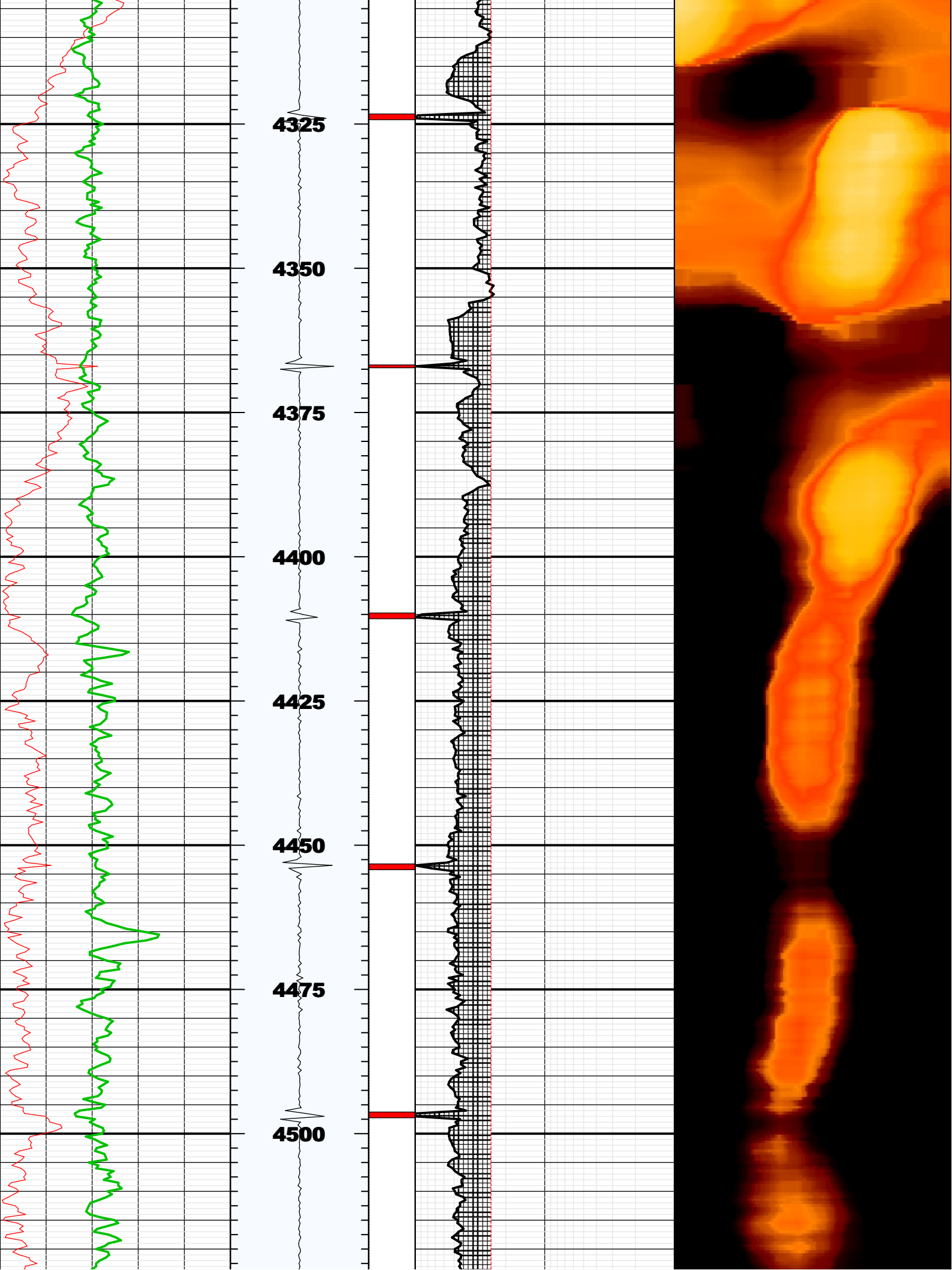


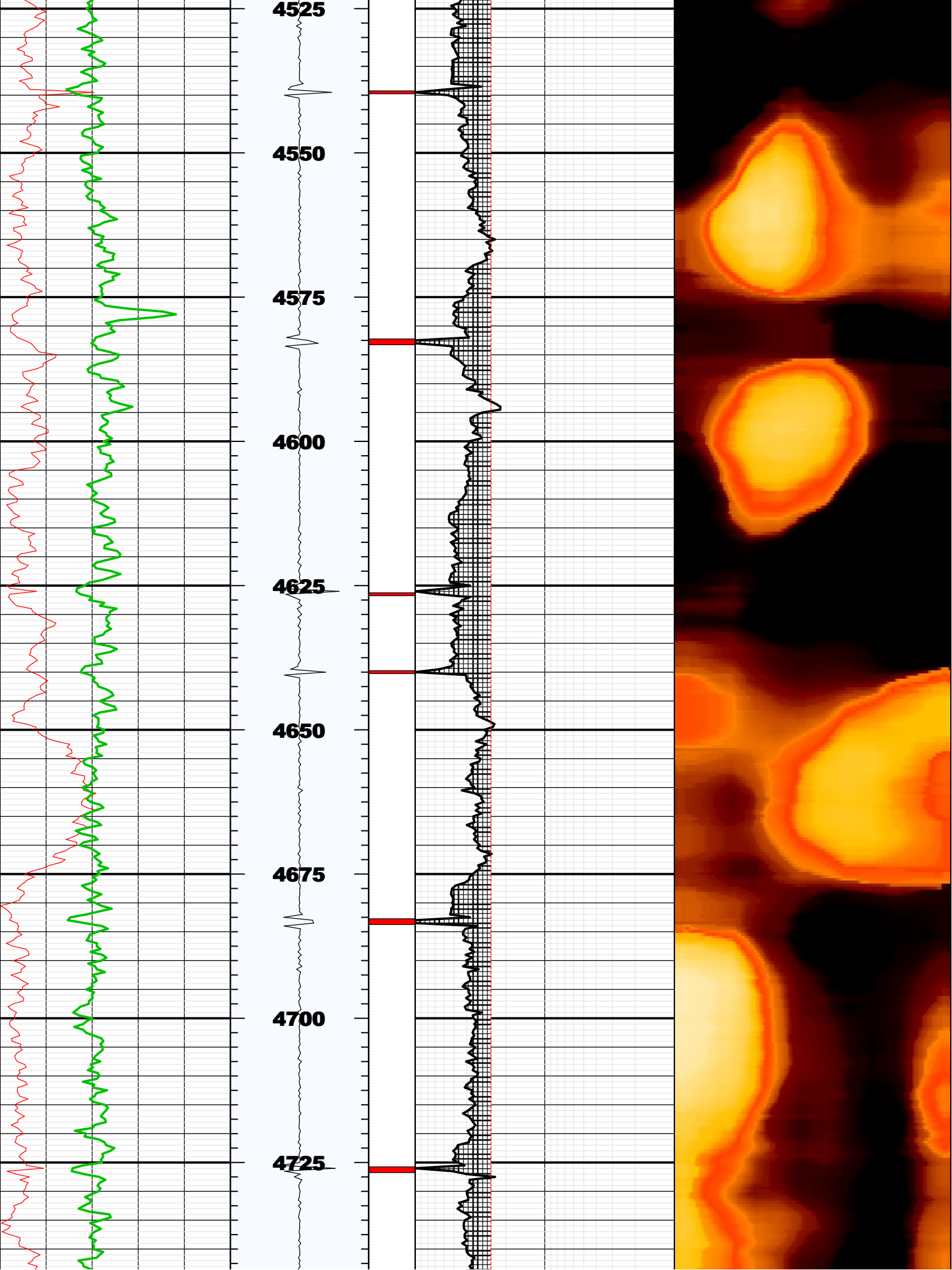


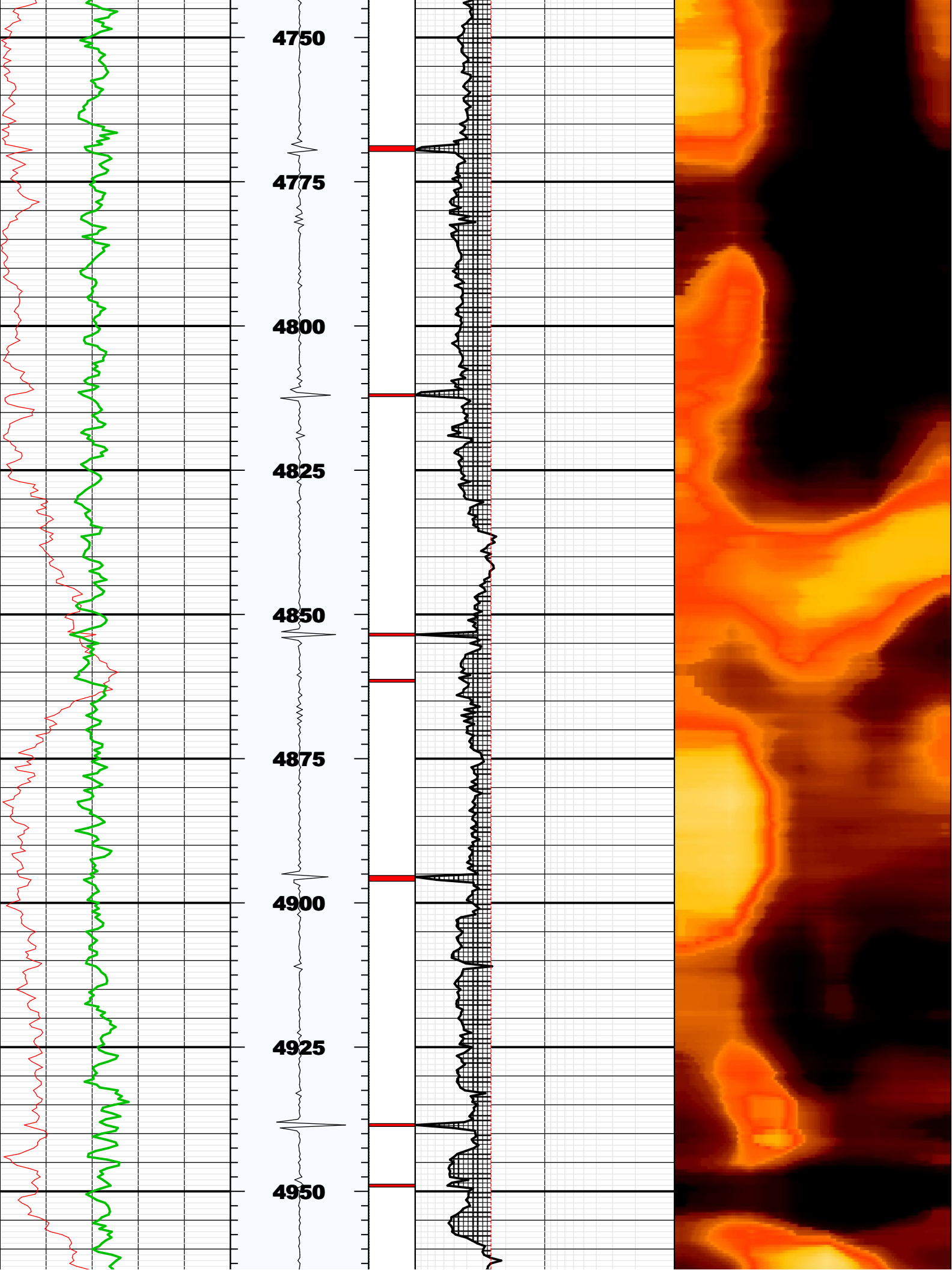


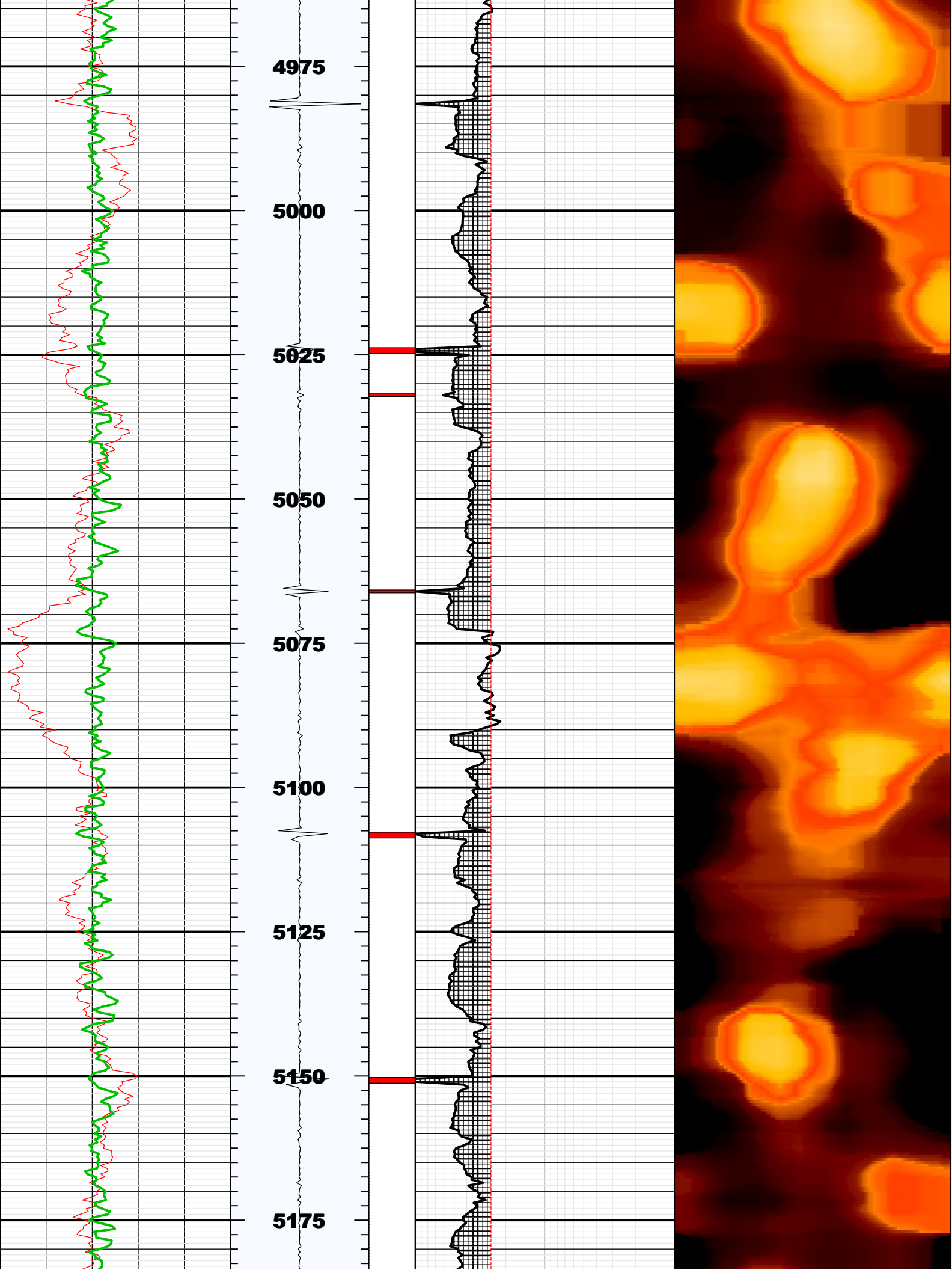


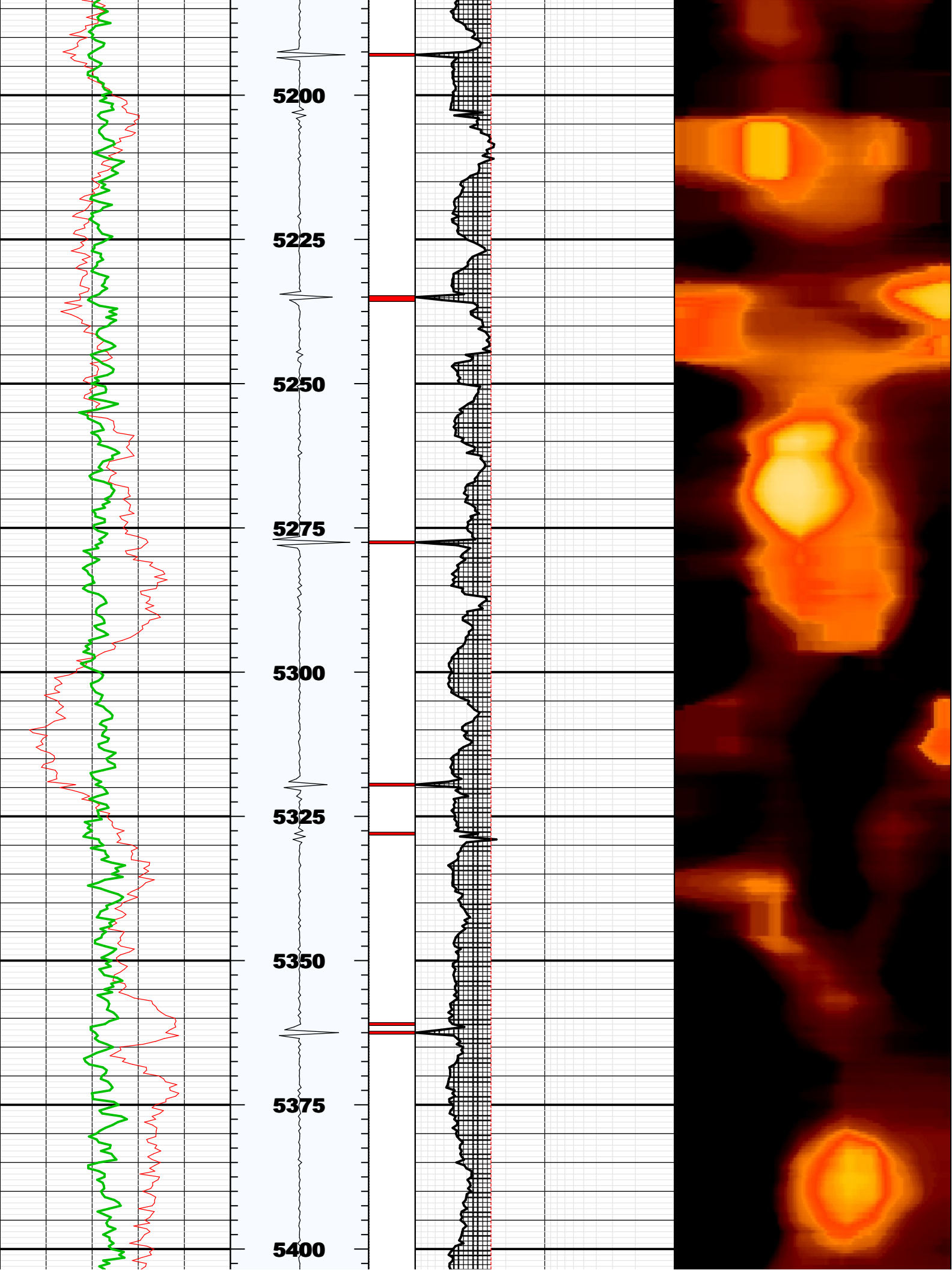


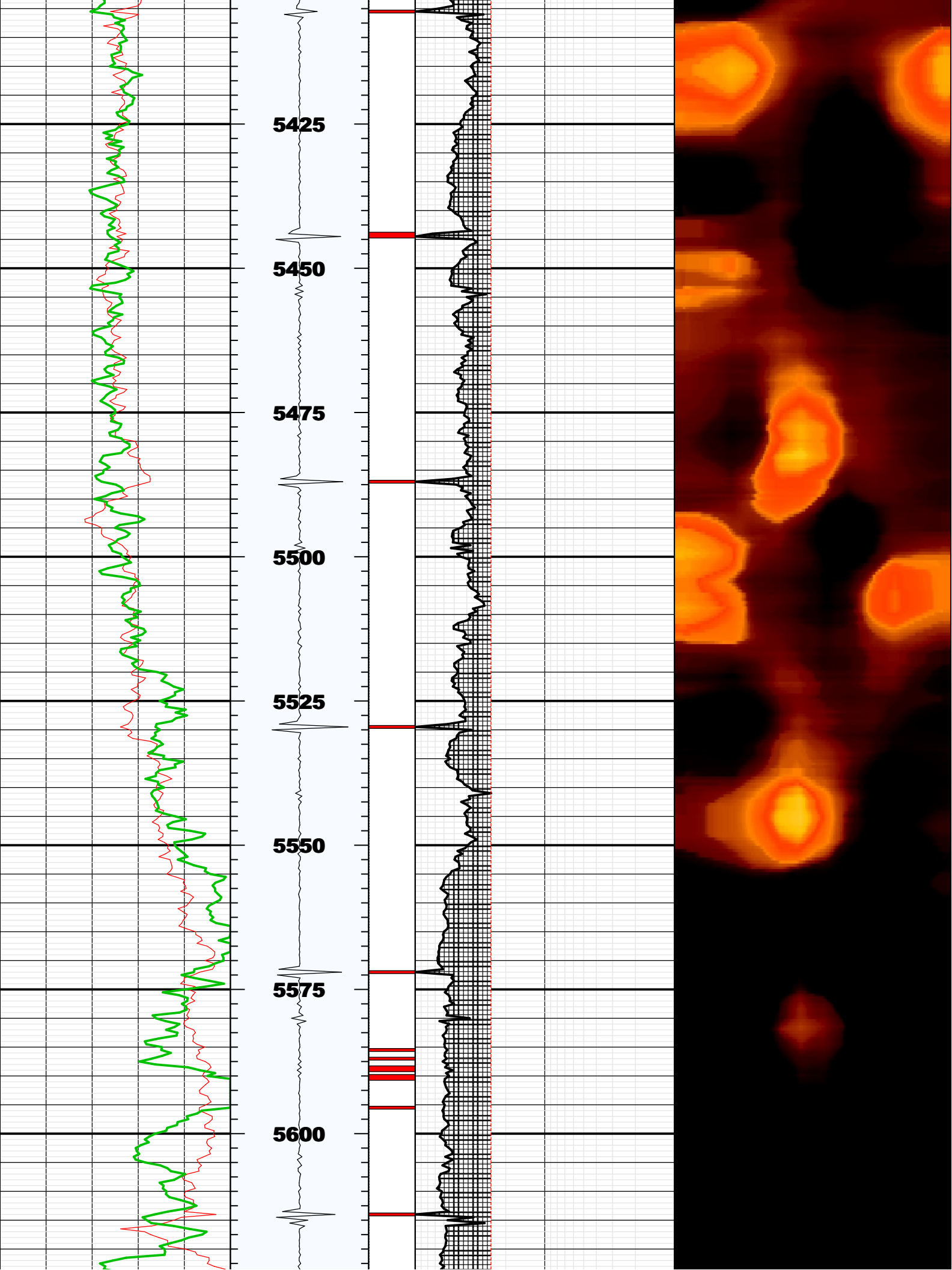


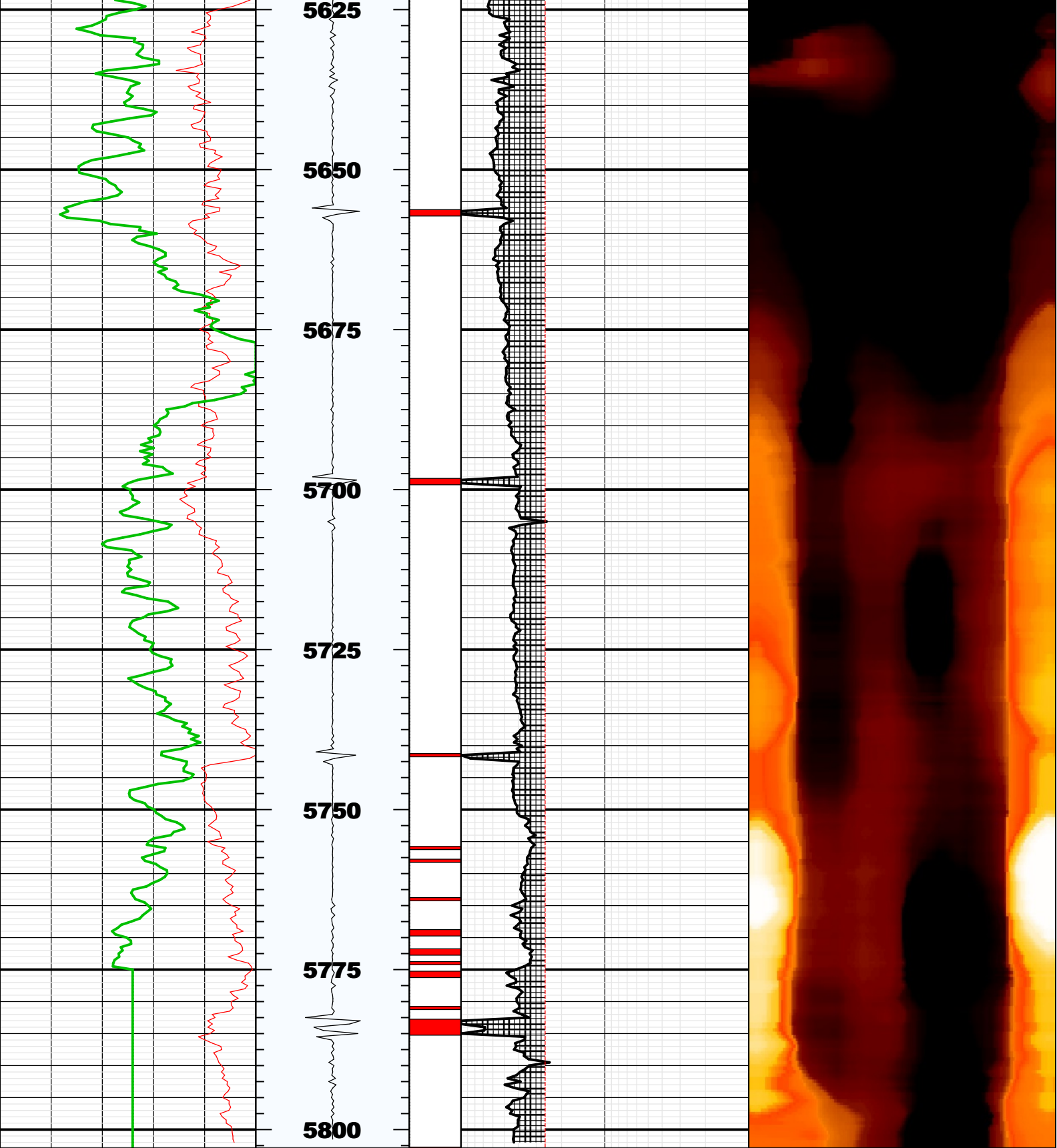








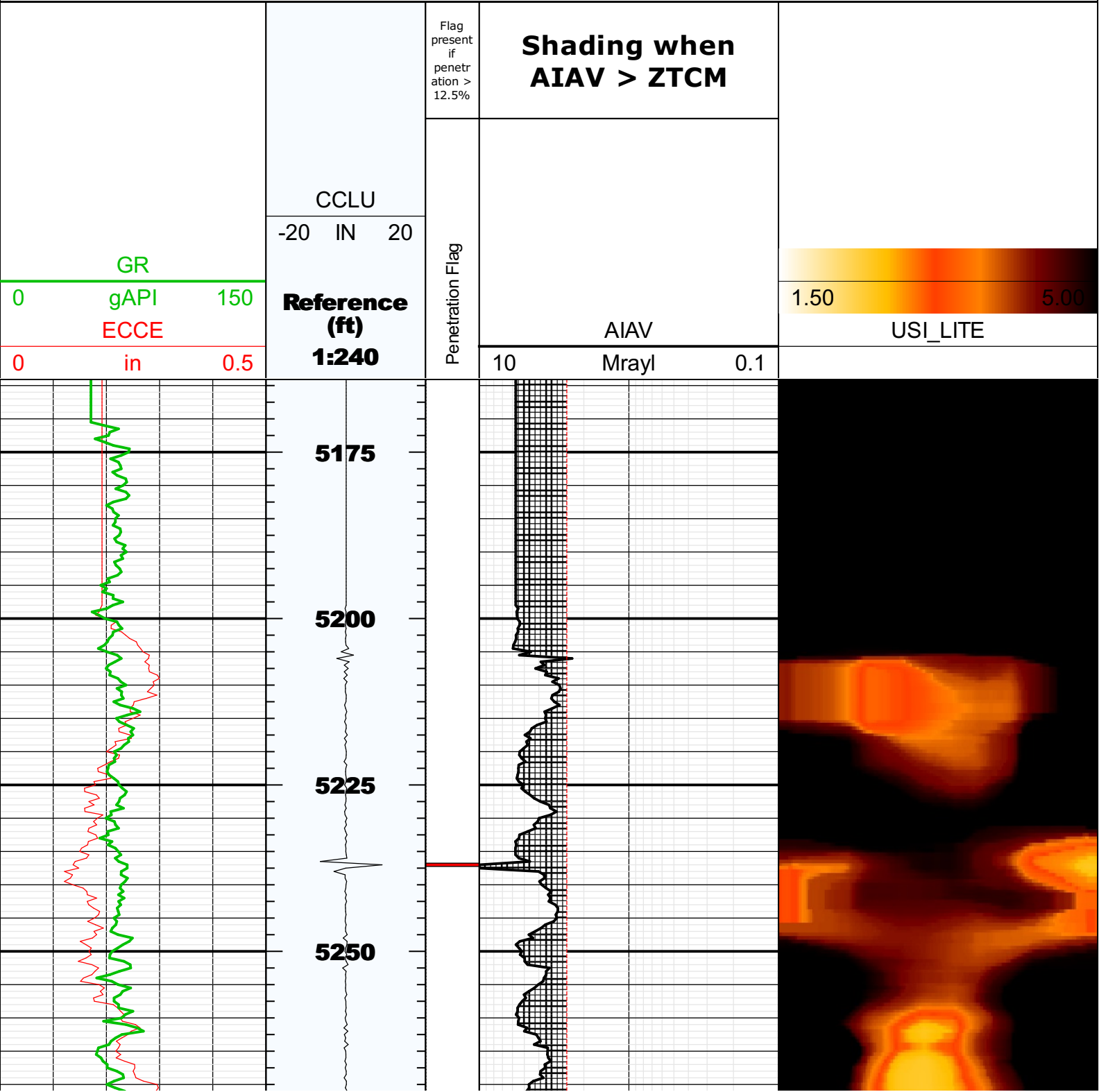


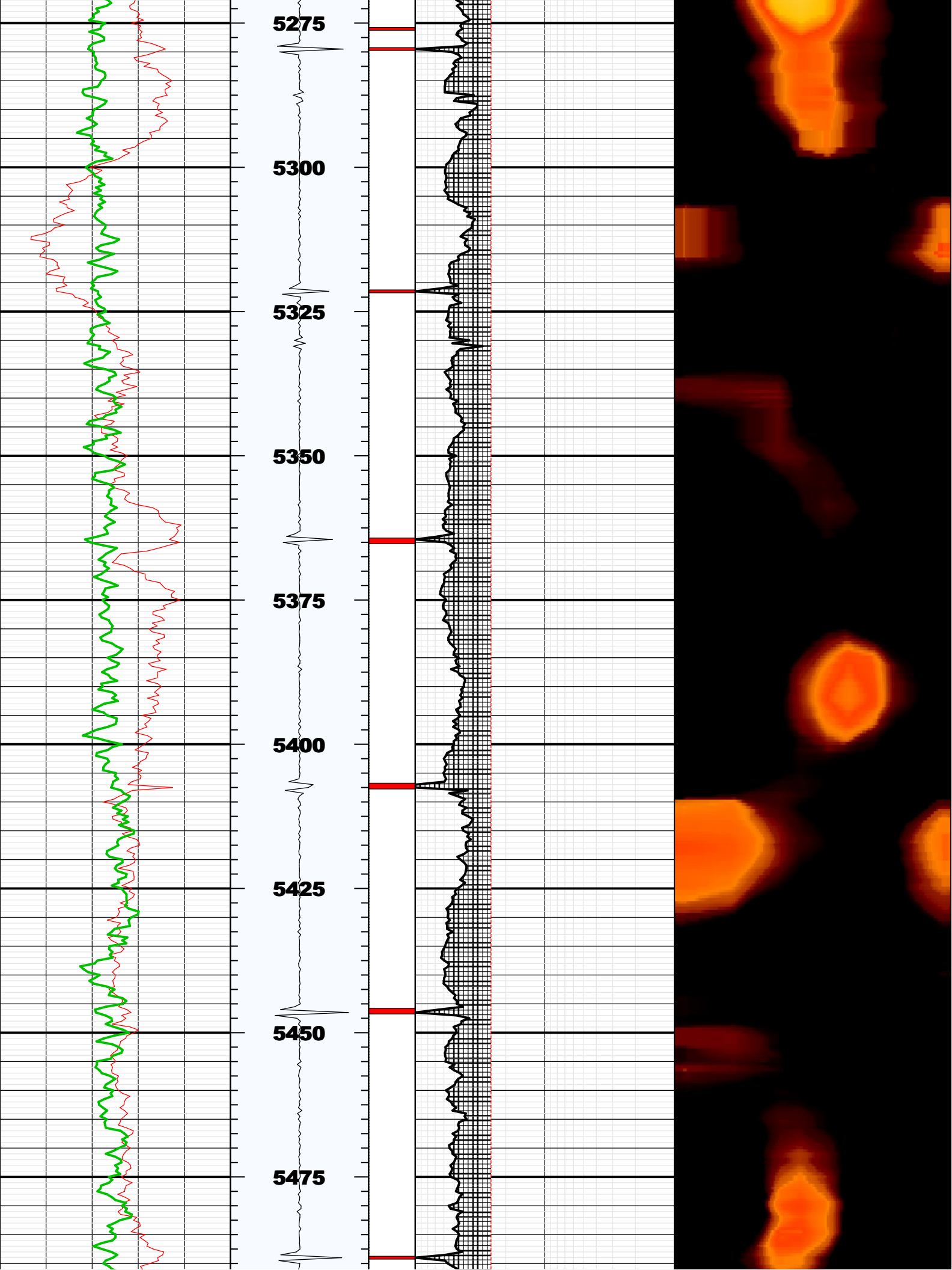


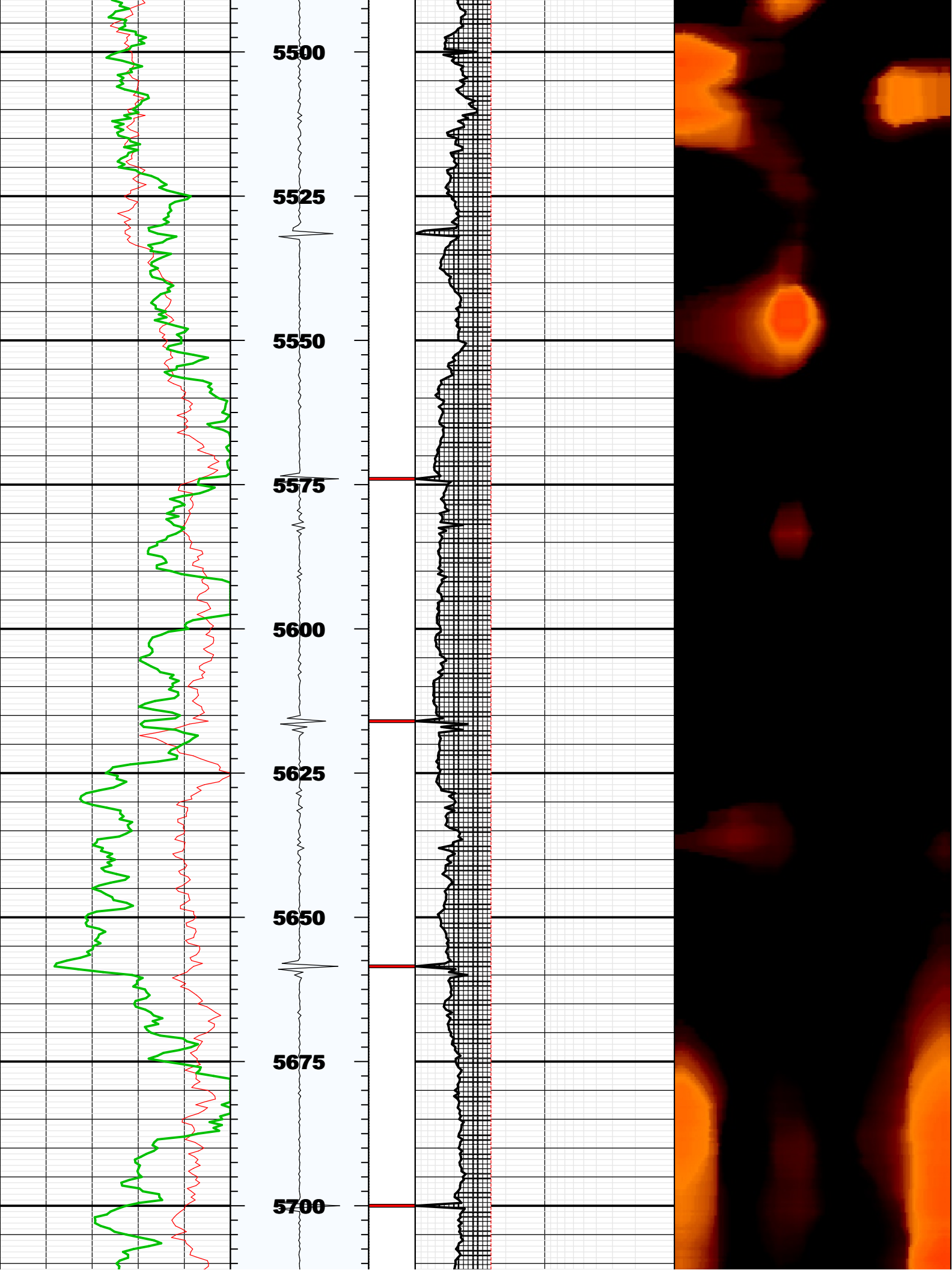
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID	6.27600	IN	Casing Inner Diameter
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	188.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	80	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	31.00000	US	Window Begin Time
WINE	78.00000	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

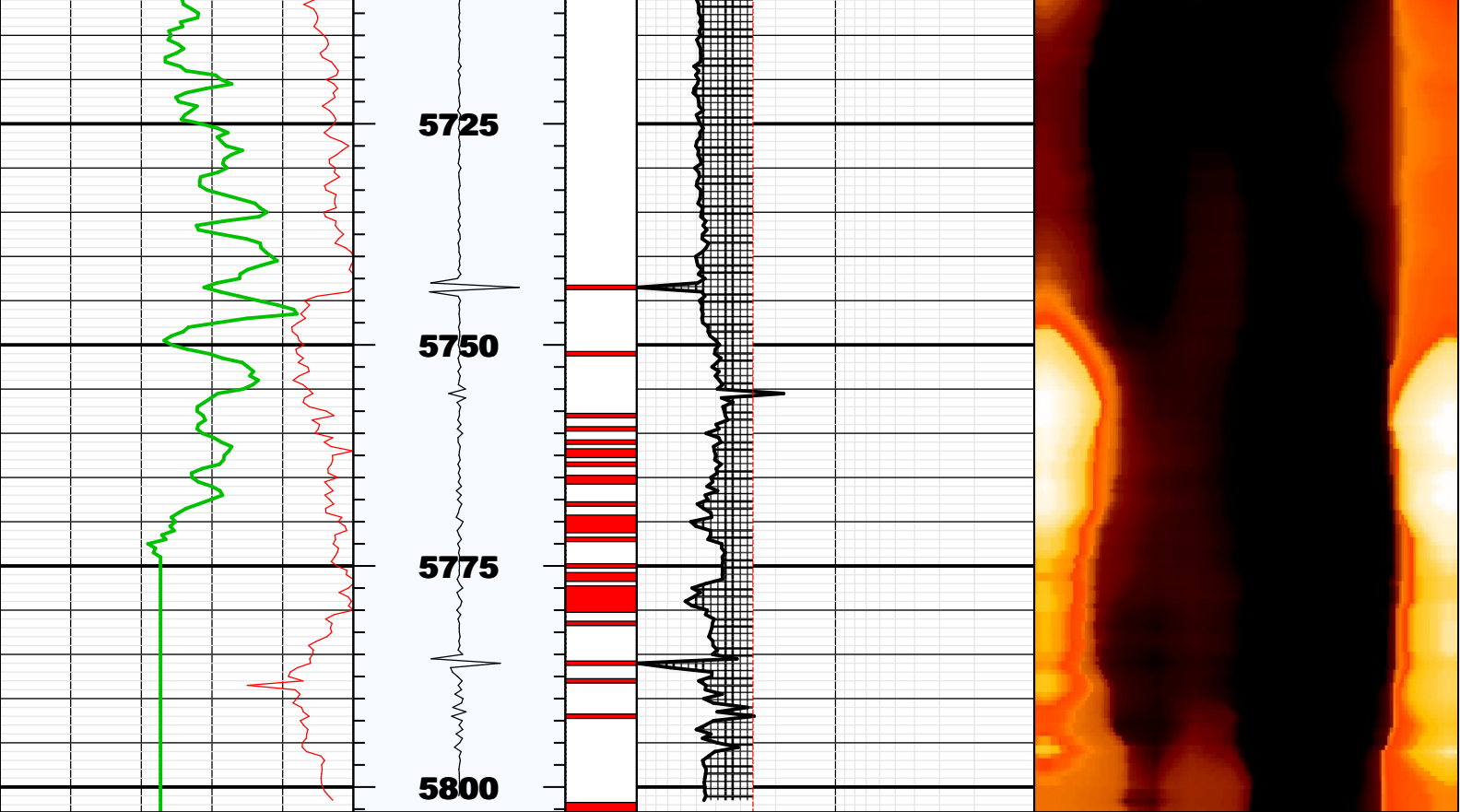
Repeat Pass

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Fluid Properties Used for Main Pass

