

Company: Noble Energy inc

Well: Rohn State LD10-63-1HN
Field: Wattenberg
County: Weld State: Colorado

County: Weld		Field: Wattenberg		Location: SESE Sec. 9 T9n R58W		Well: Rohn State LD10-63-1HN		Company: Noble Energy inc	
Logging Date		API Serial No. 05-123-37623-0000		Section 9		Township 58W		Range 58W	
Run Number		Run 1 USIT							
Depth Driller		6018.0 F							
Schlumberger Depth		5872.0 F							
Bottom Log Interval		5872.0 F							
Top Log Interval		-999.2 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		5872.0 F							
To		-999.2 F							
Casing Size		7.00 IN							
Weight		26.00 LB/F							
Grade		P110							
From		0.0 F							
To		5872.0 F							
Max Recorded Temp		221.0							
Logger on bottom (date)		06-Nov-2014							
Location		Fl. Morgan							
Recorded By		Danielle Maniere							
Witnessed By		Bill Mansfield							

USI-LITE (2500 psi)

Permanent Datum:
Log Measured From:
Drilling Measured From:

GL
KB
KB

Elev: K.B. 4743.0 F
G.L. 4719.0 F
D.F. 4742.0 F

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: 1919 Calibration Date: Calibrator Serial Number: Number Of Calibration Points: Calibration RMS: Calibration Peak Error:	Serial Number: U711057 Length: 18000.00000

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF ANR RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISIONS MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA

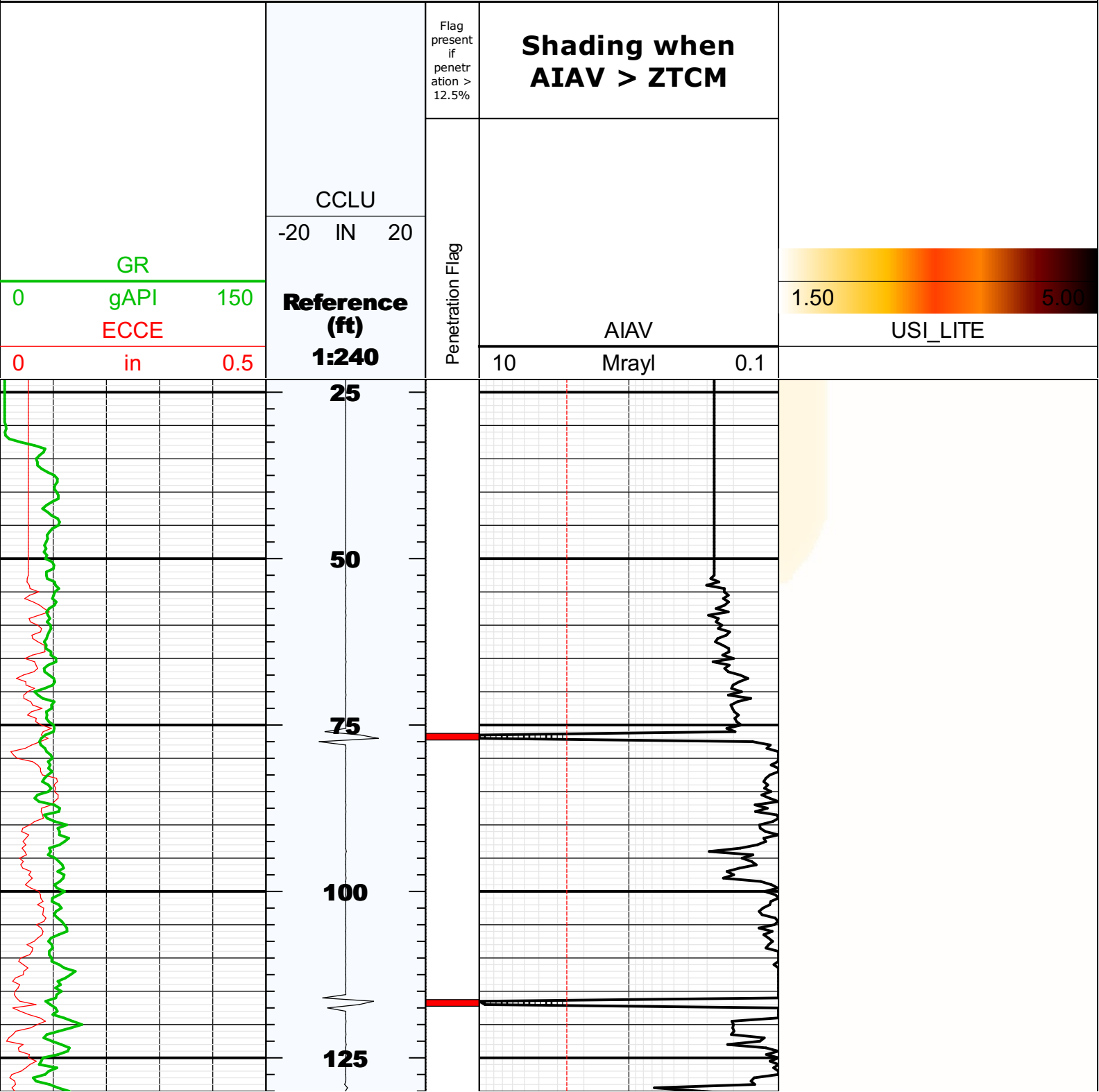
13.6ppg single slurry cement
Top of cement 770ft

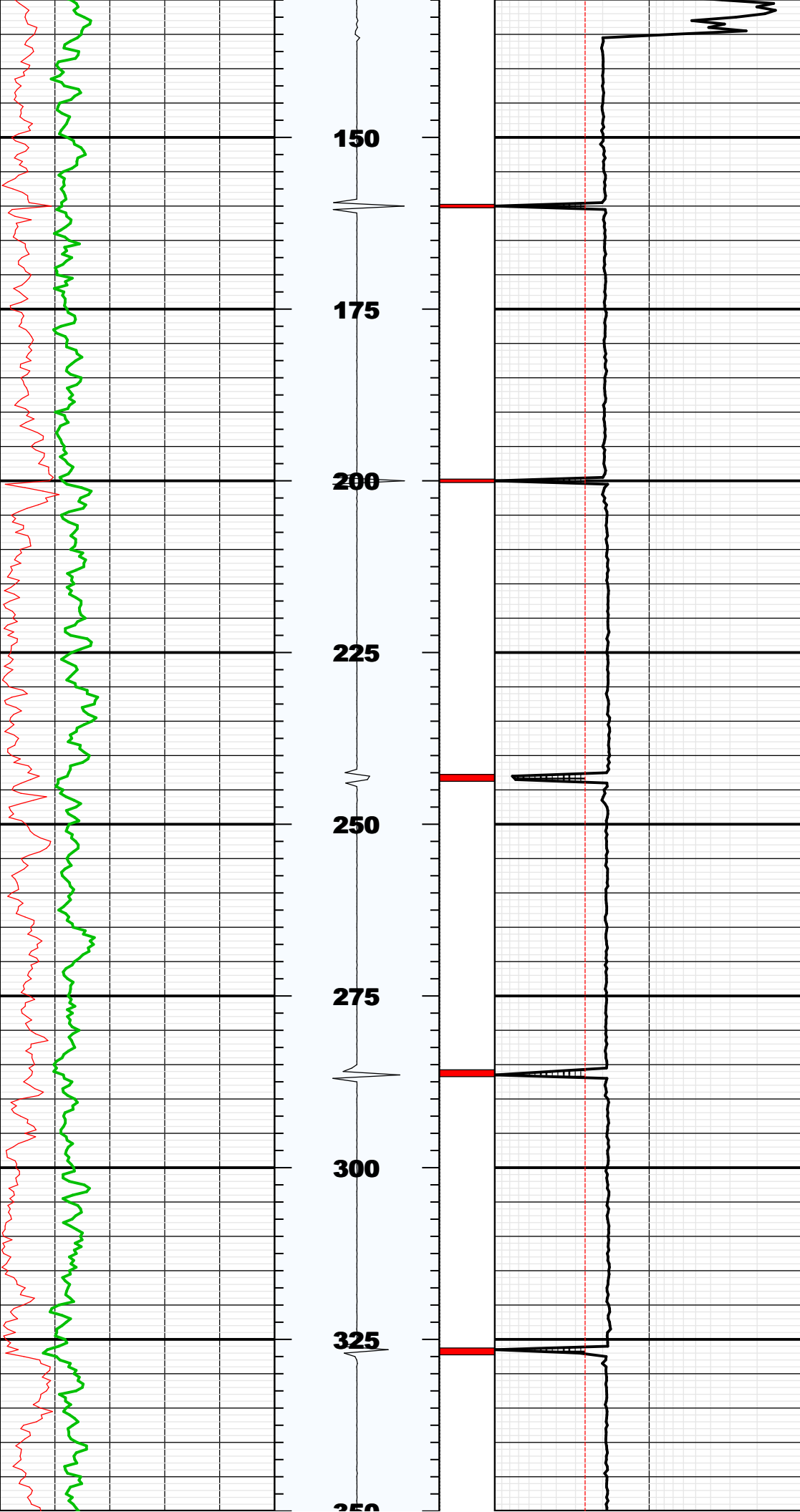
2500psi main pass from 20ft above top of liner at 5892' to
surface, 0psi repeat pass

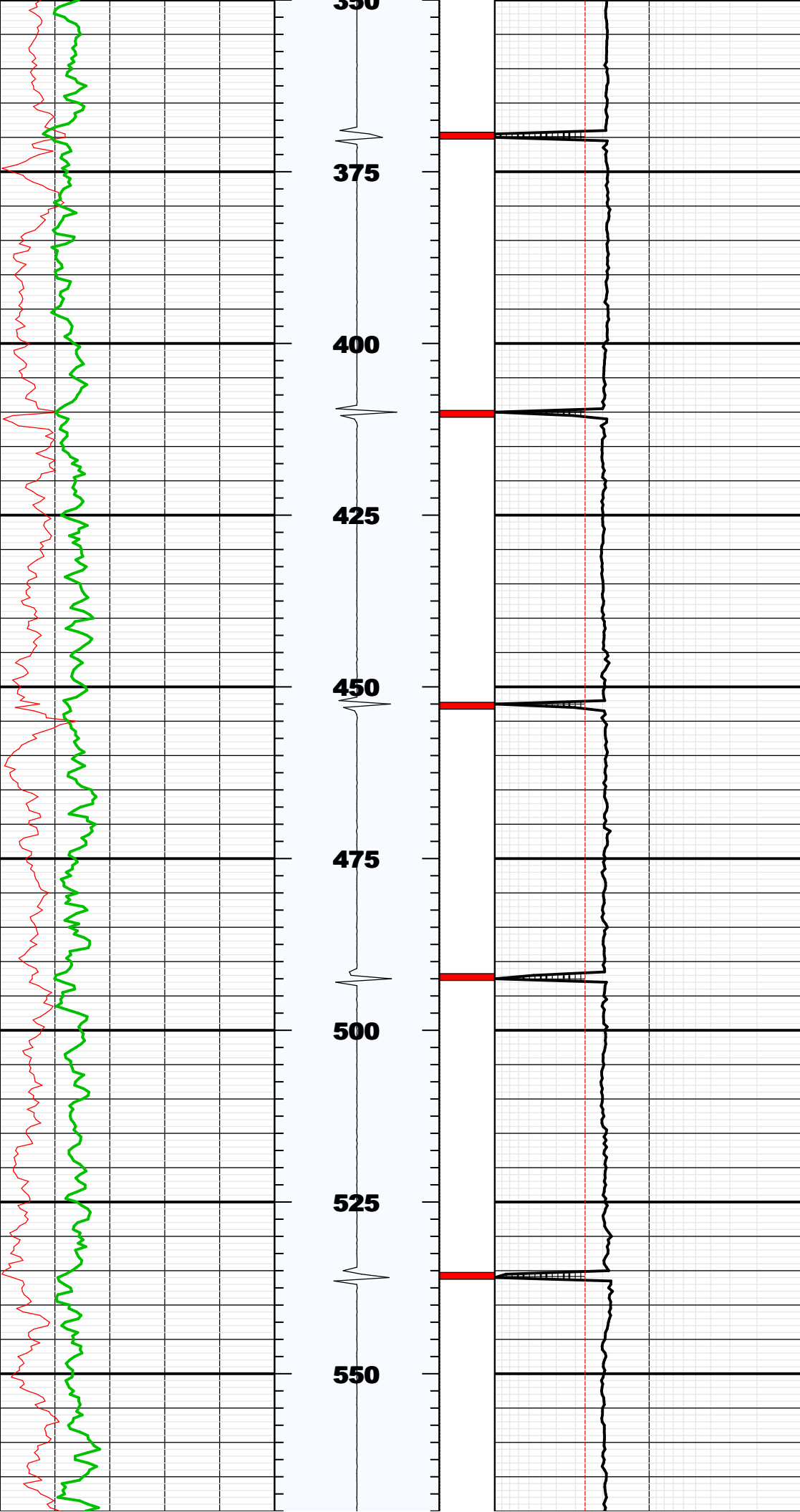
Bottom hole temperature measured 221degF at depth

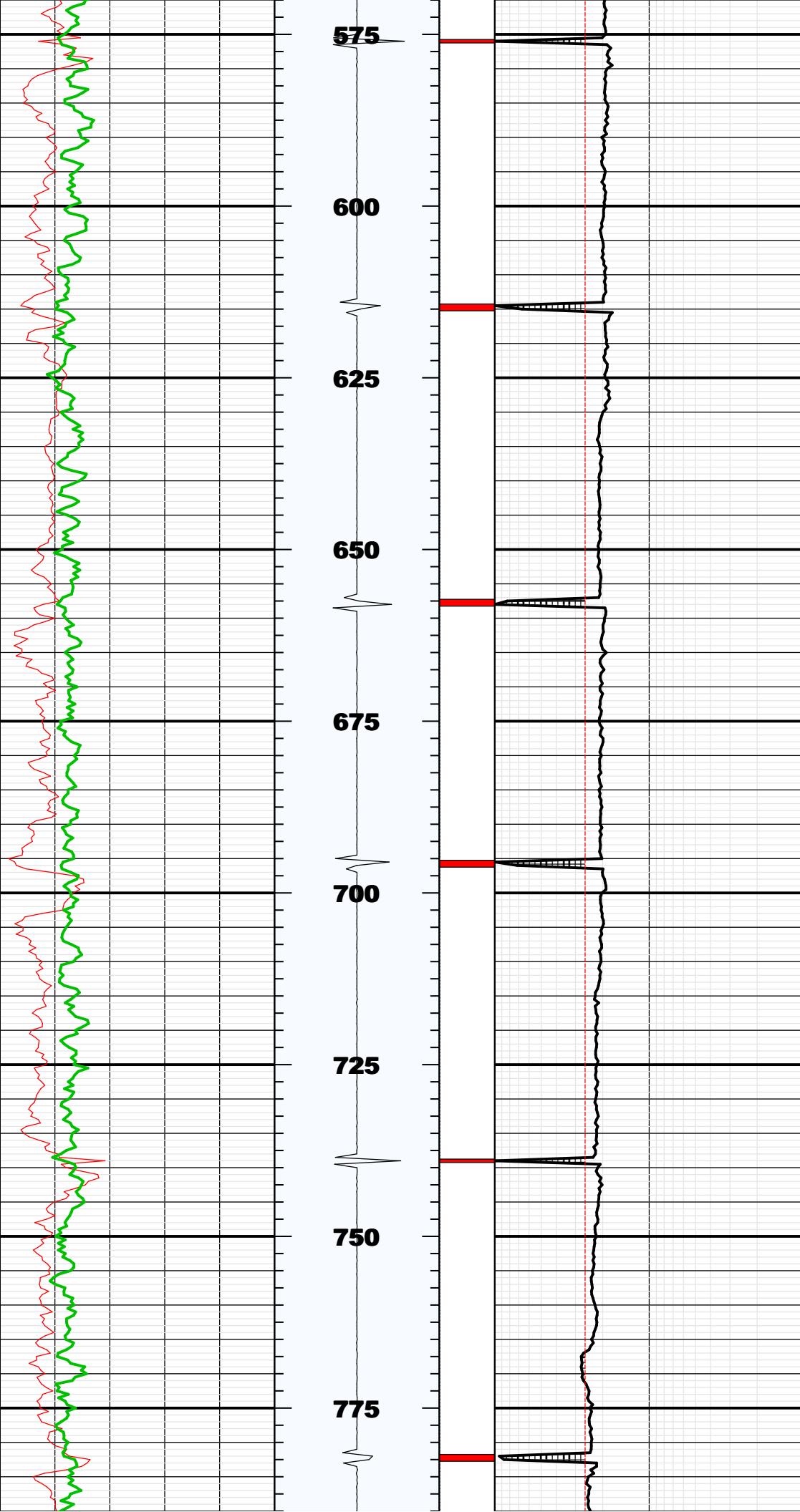
Main Pass

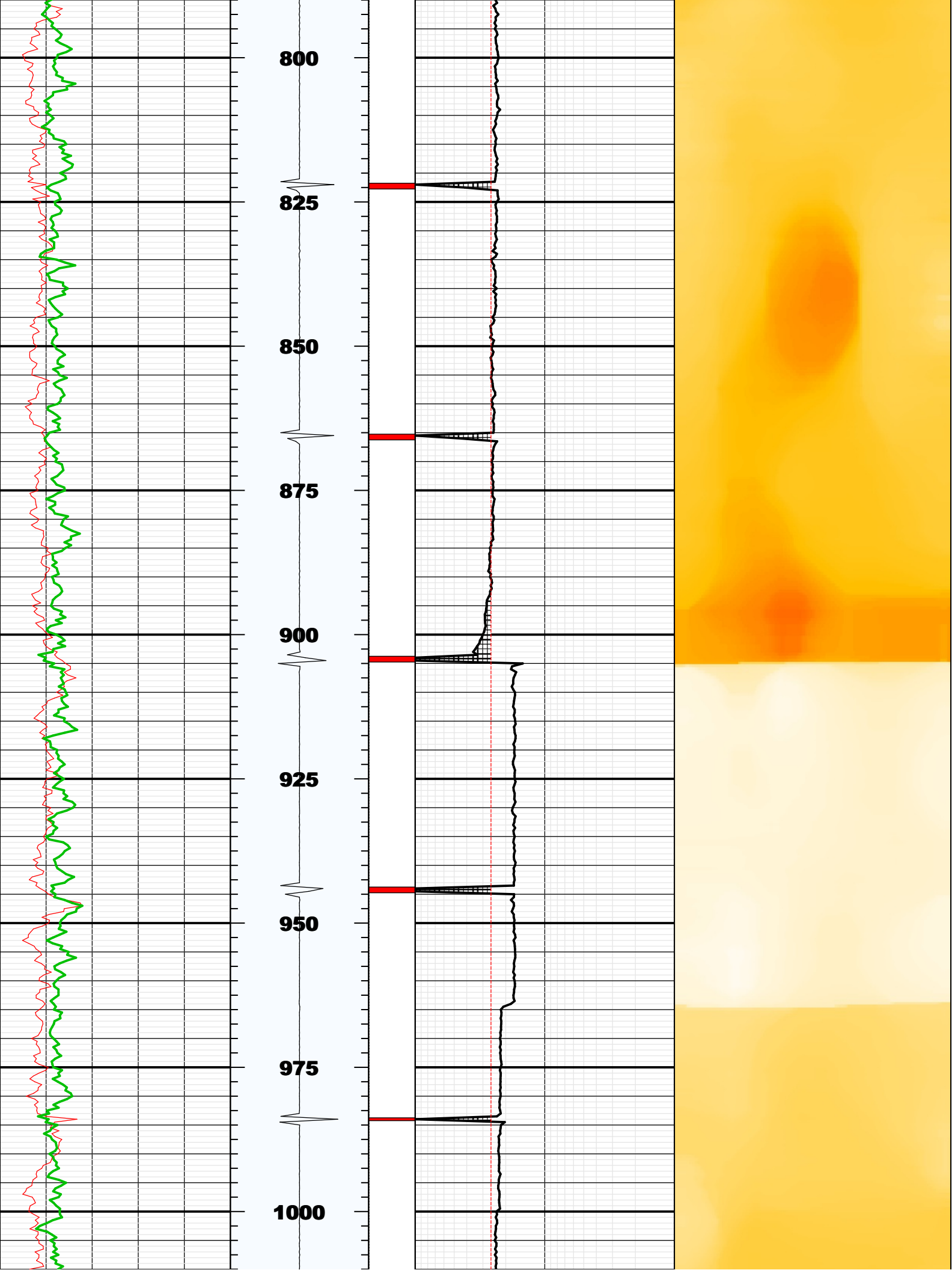
Company: Noble Energy inc
Well: Rohn State LD10-63-1HN
Field: Wattenberg

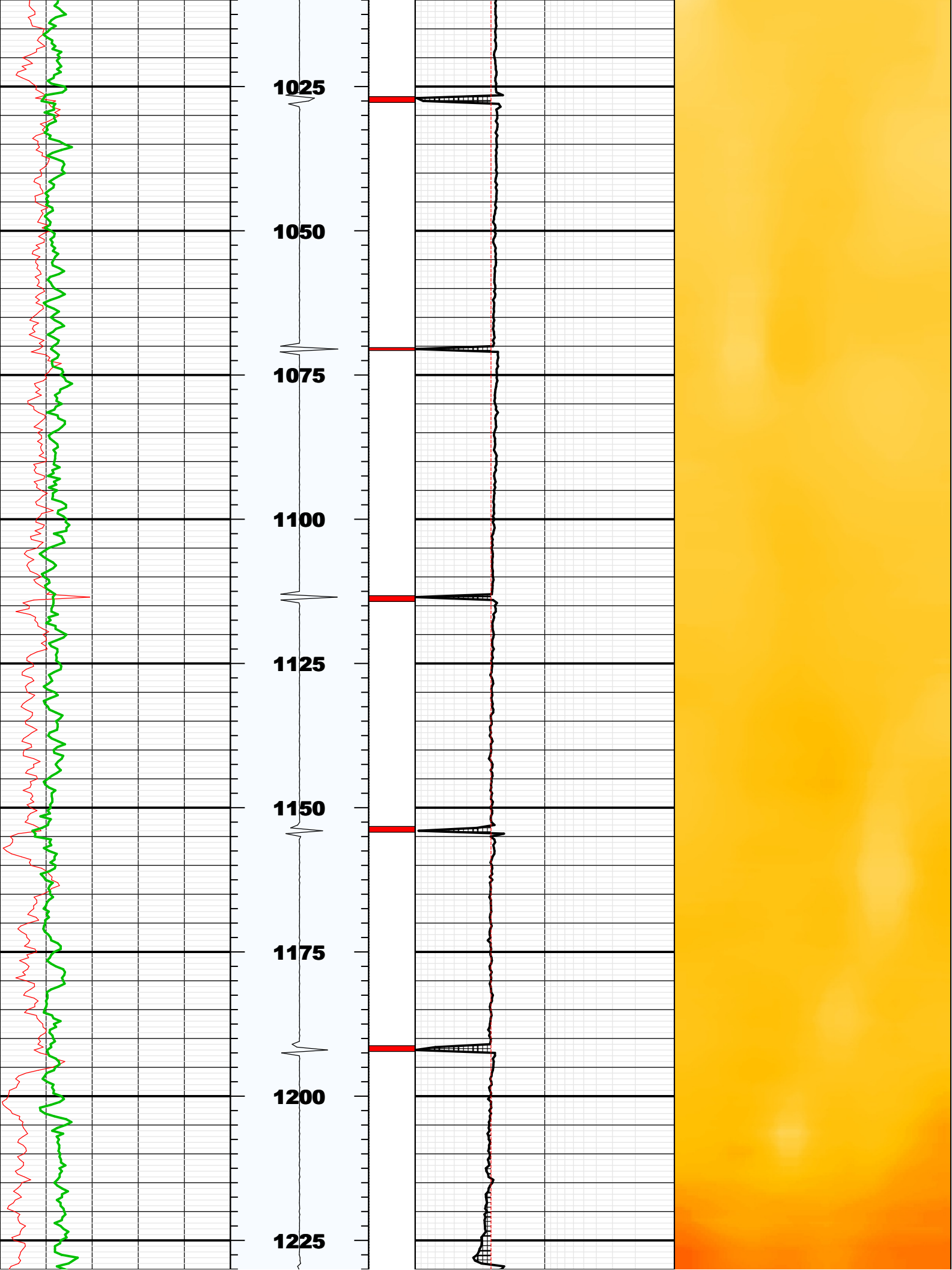


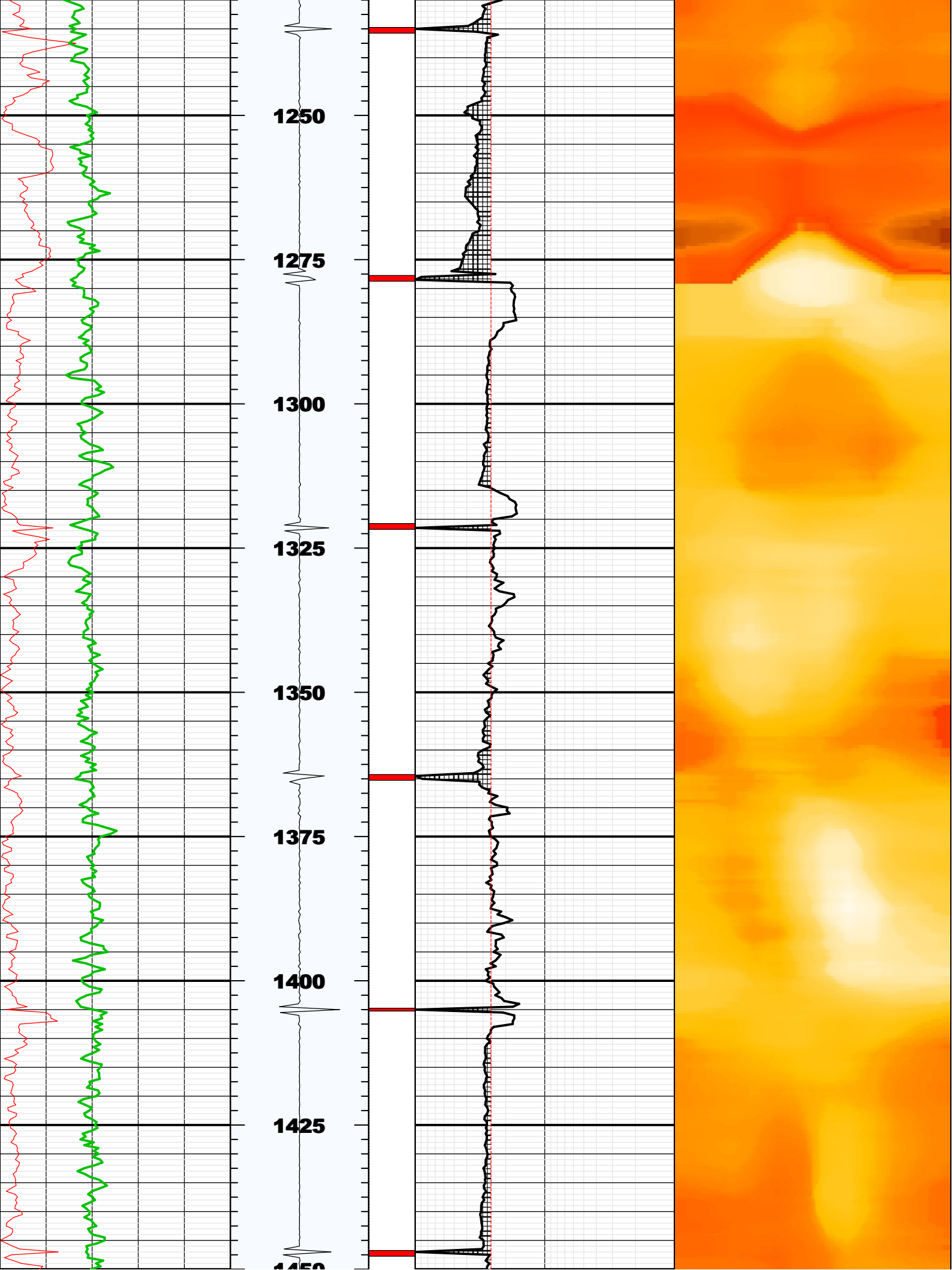


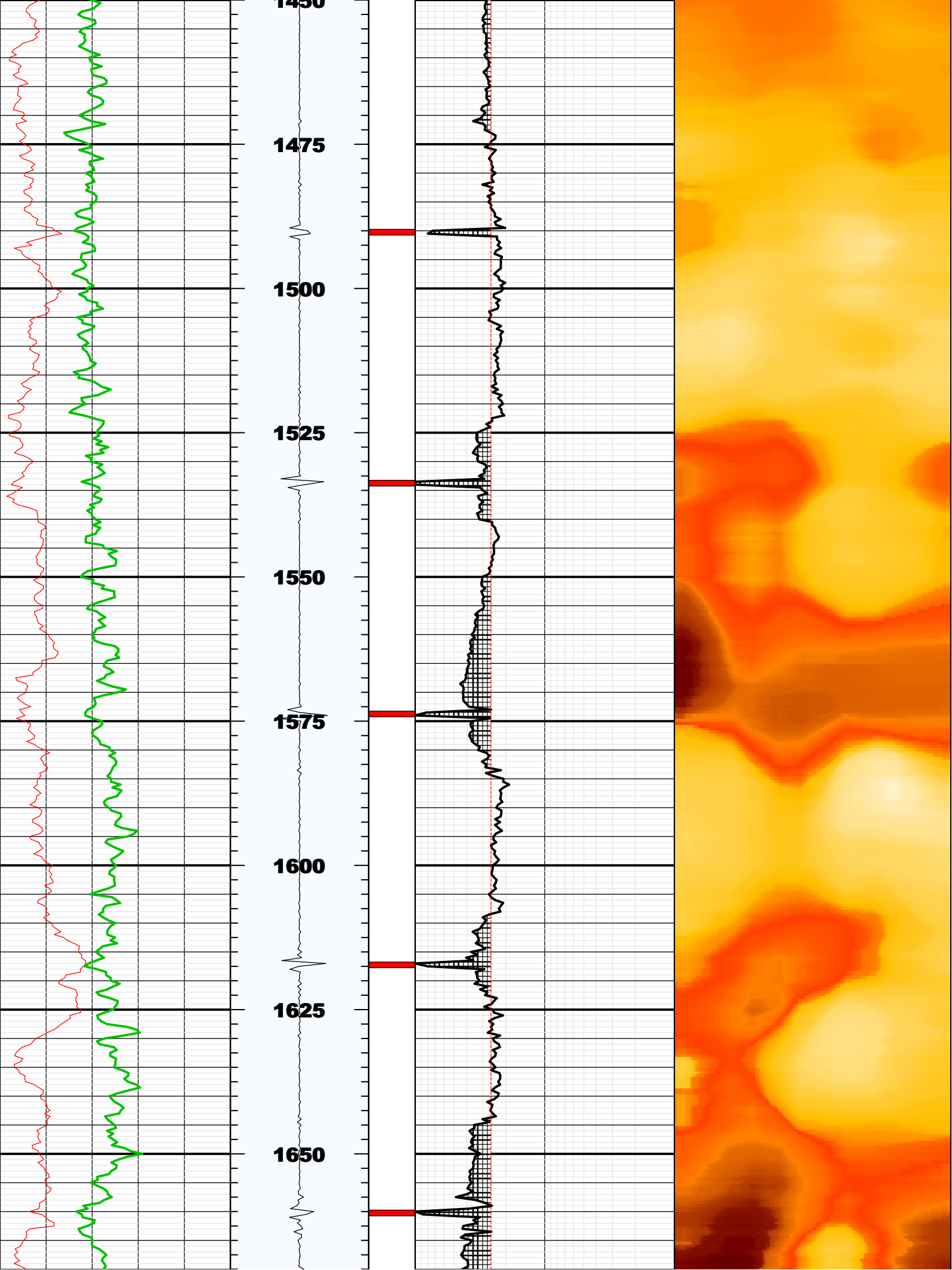


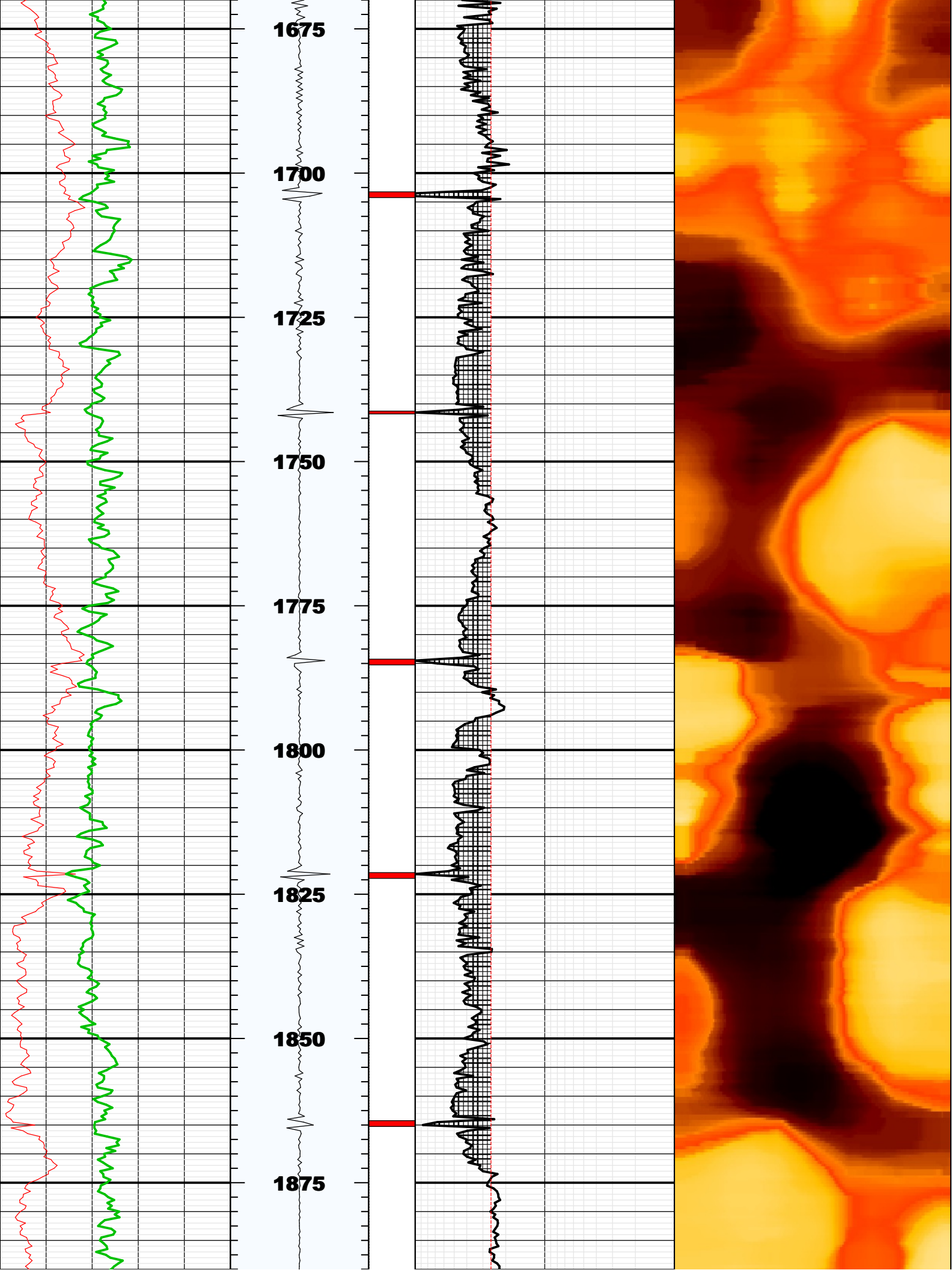


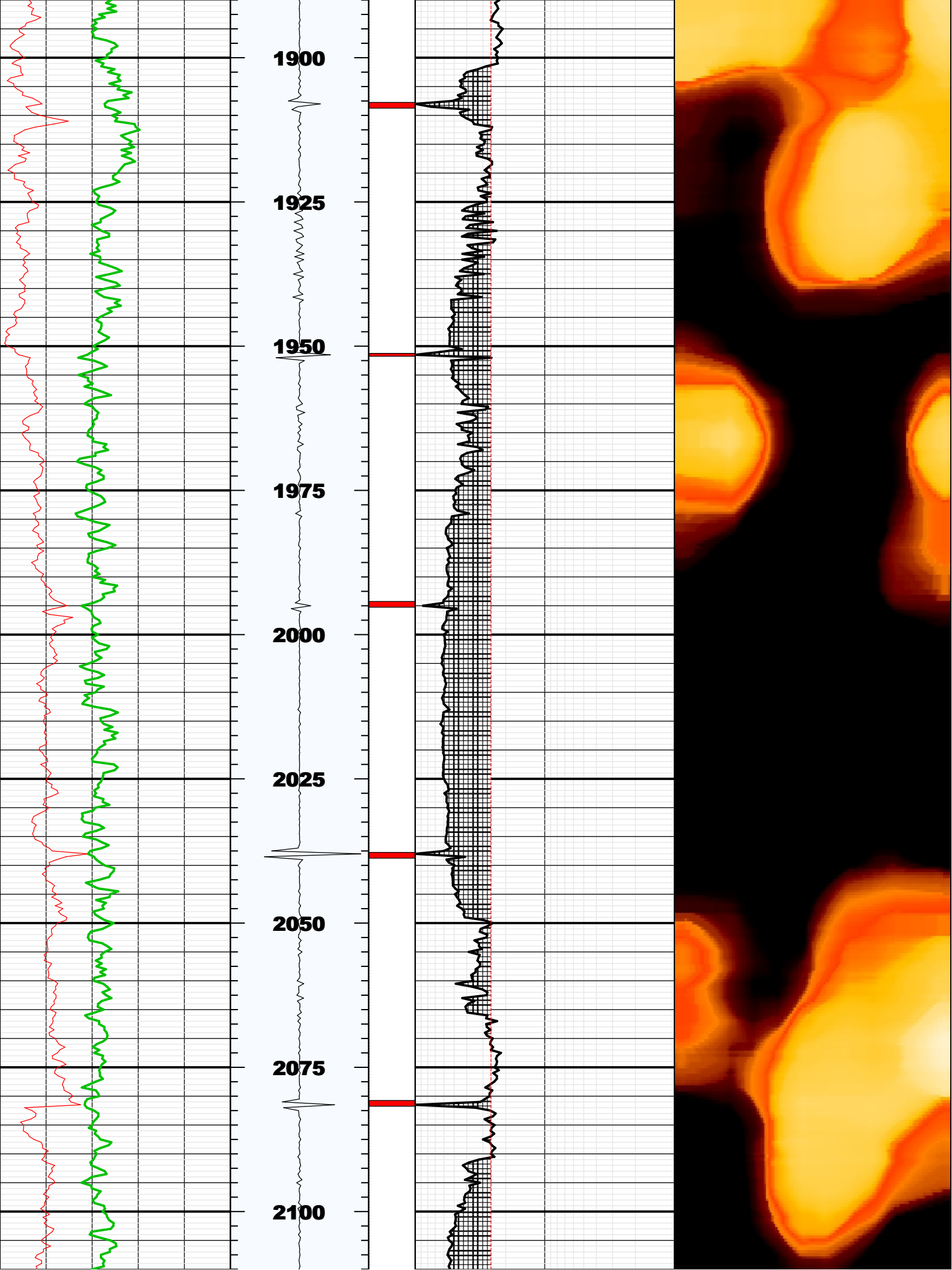


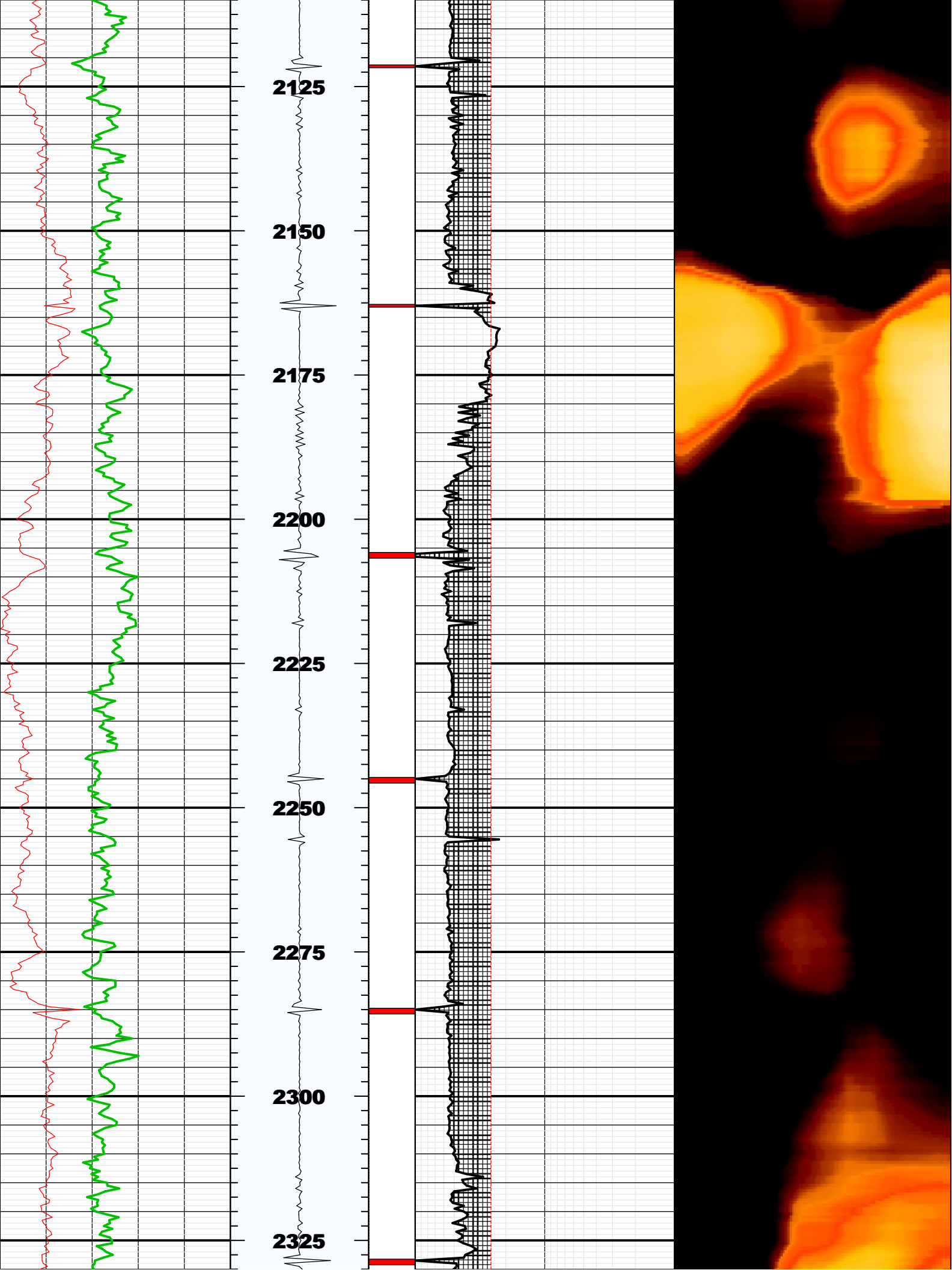


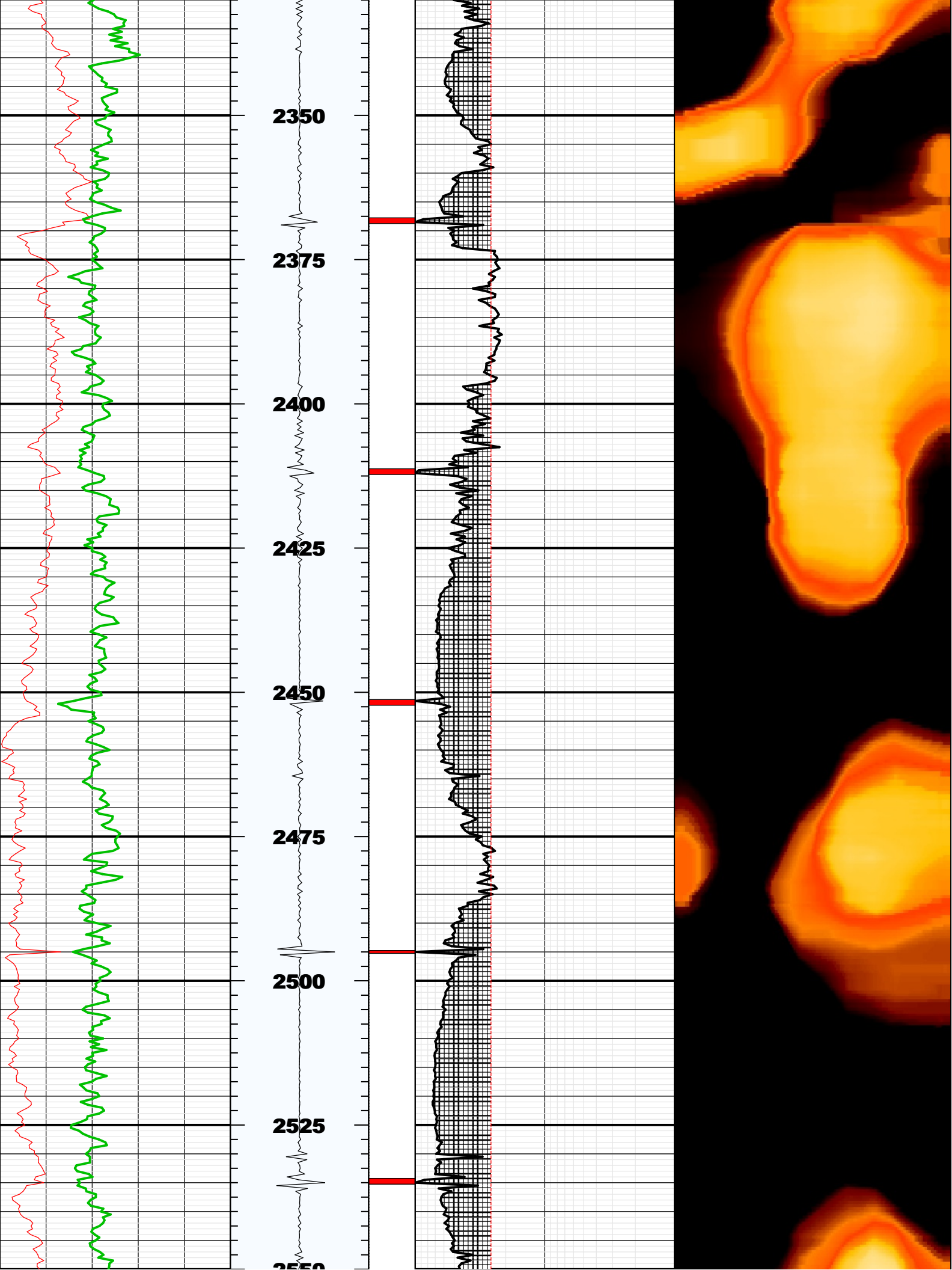


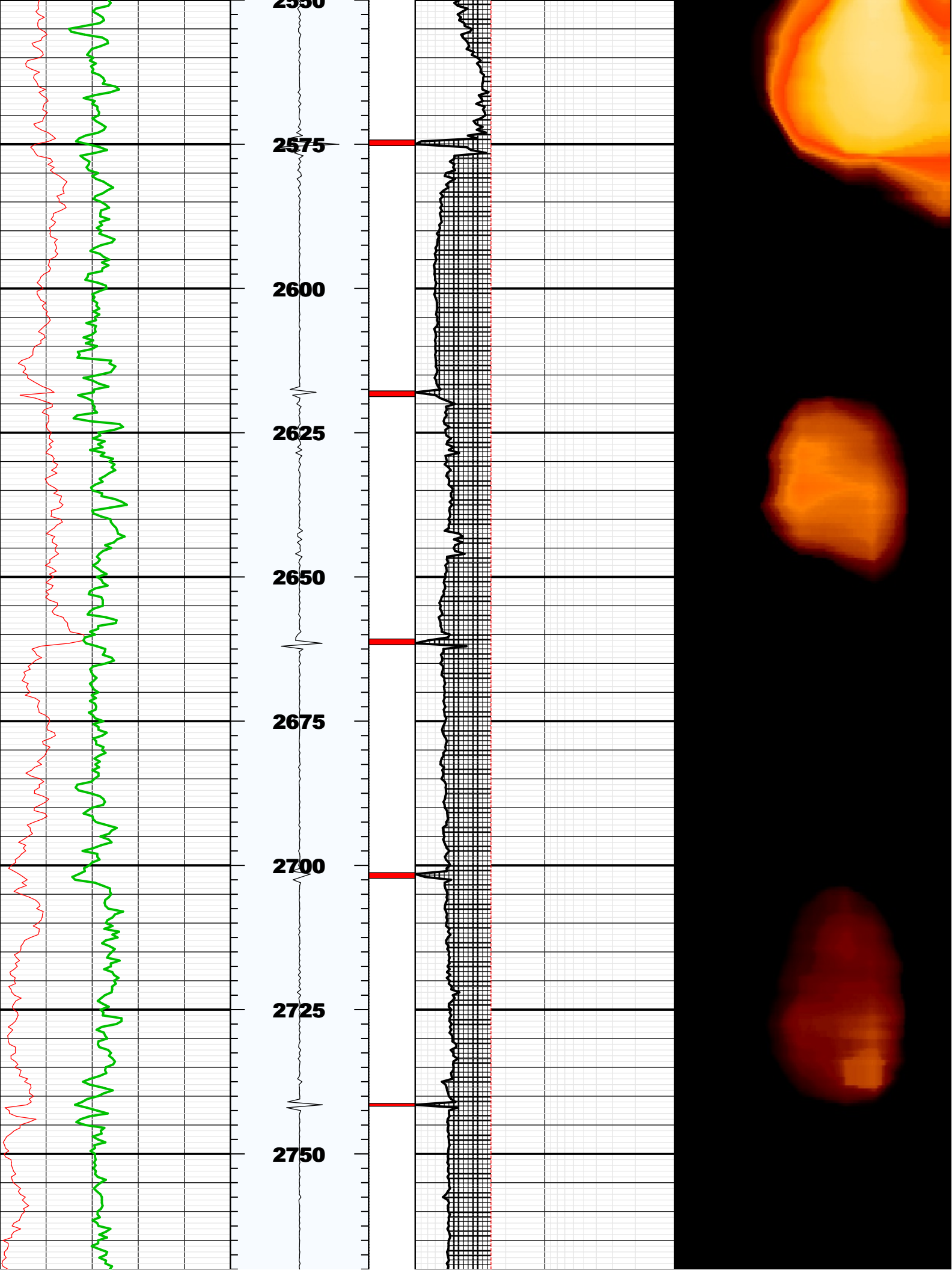


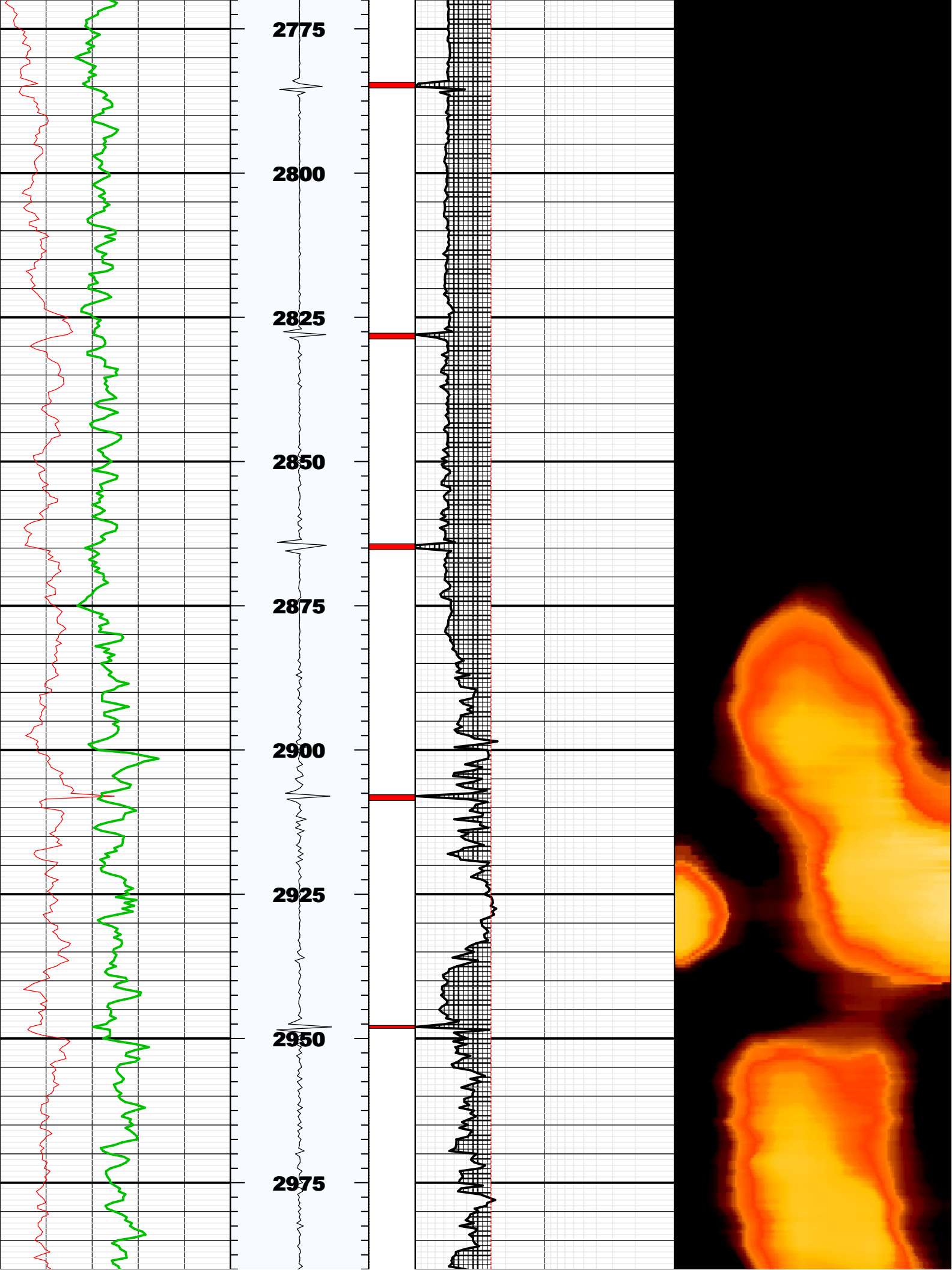


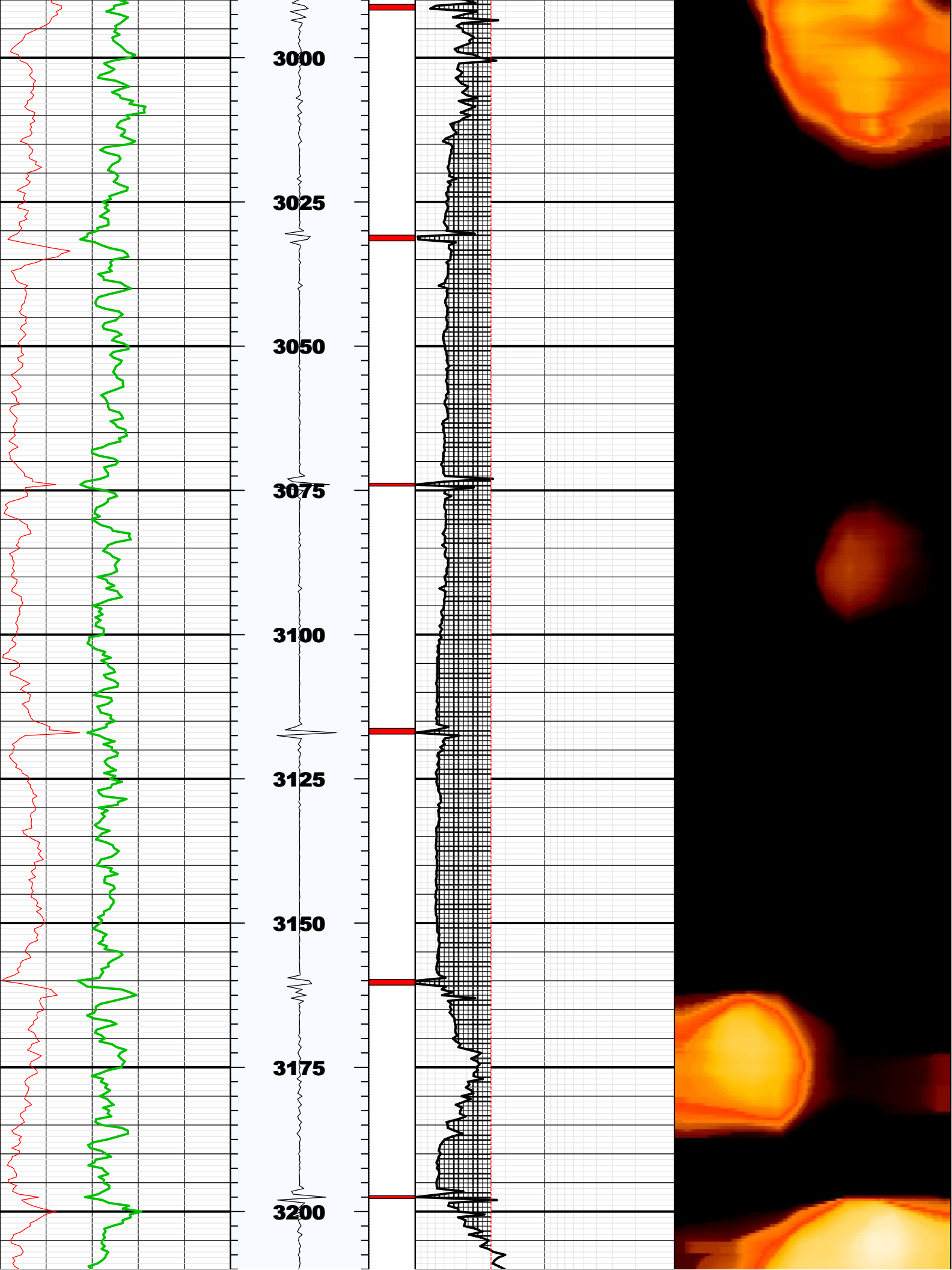


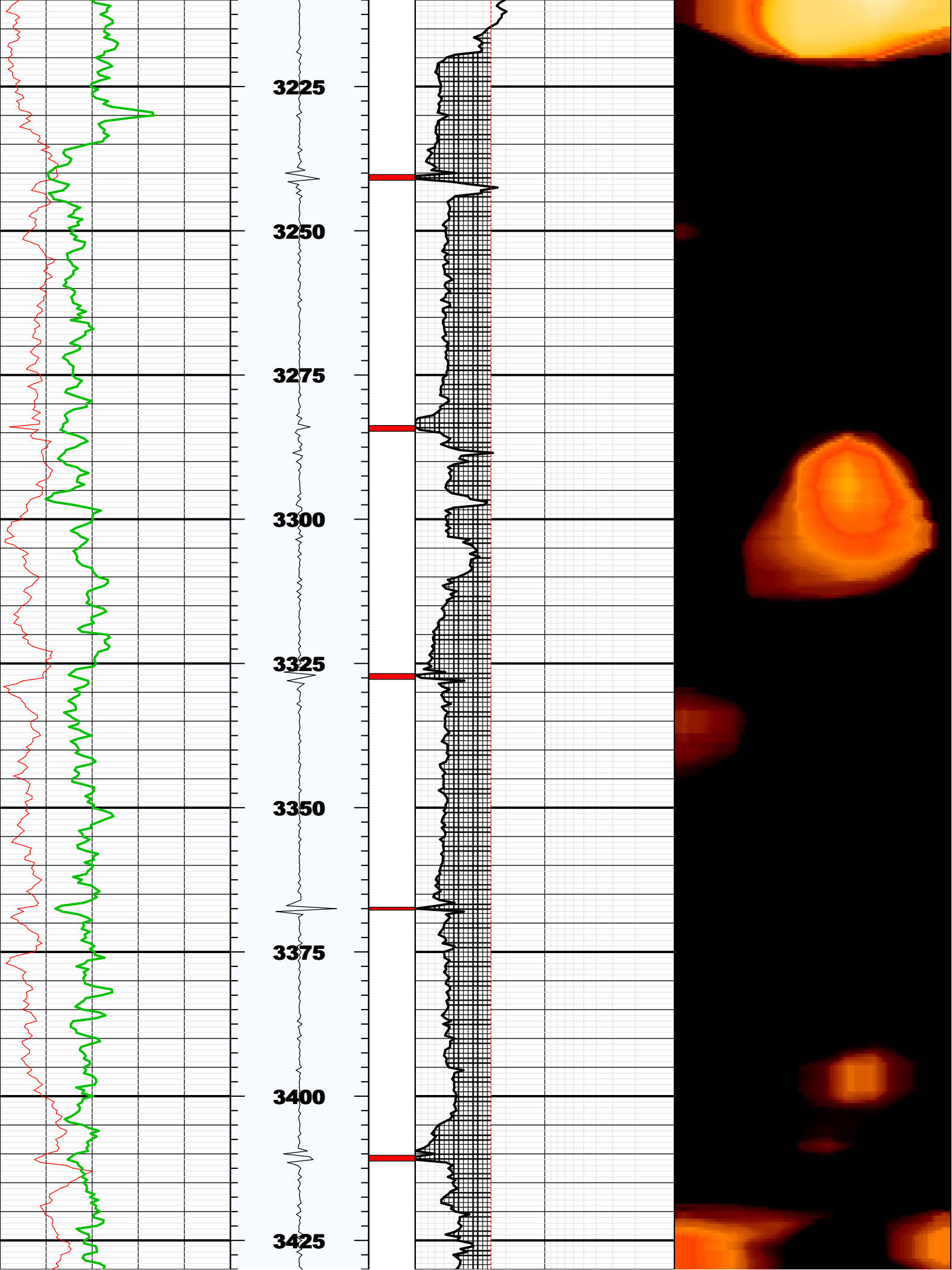


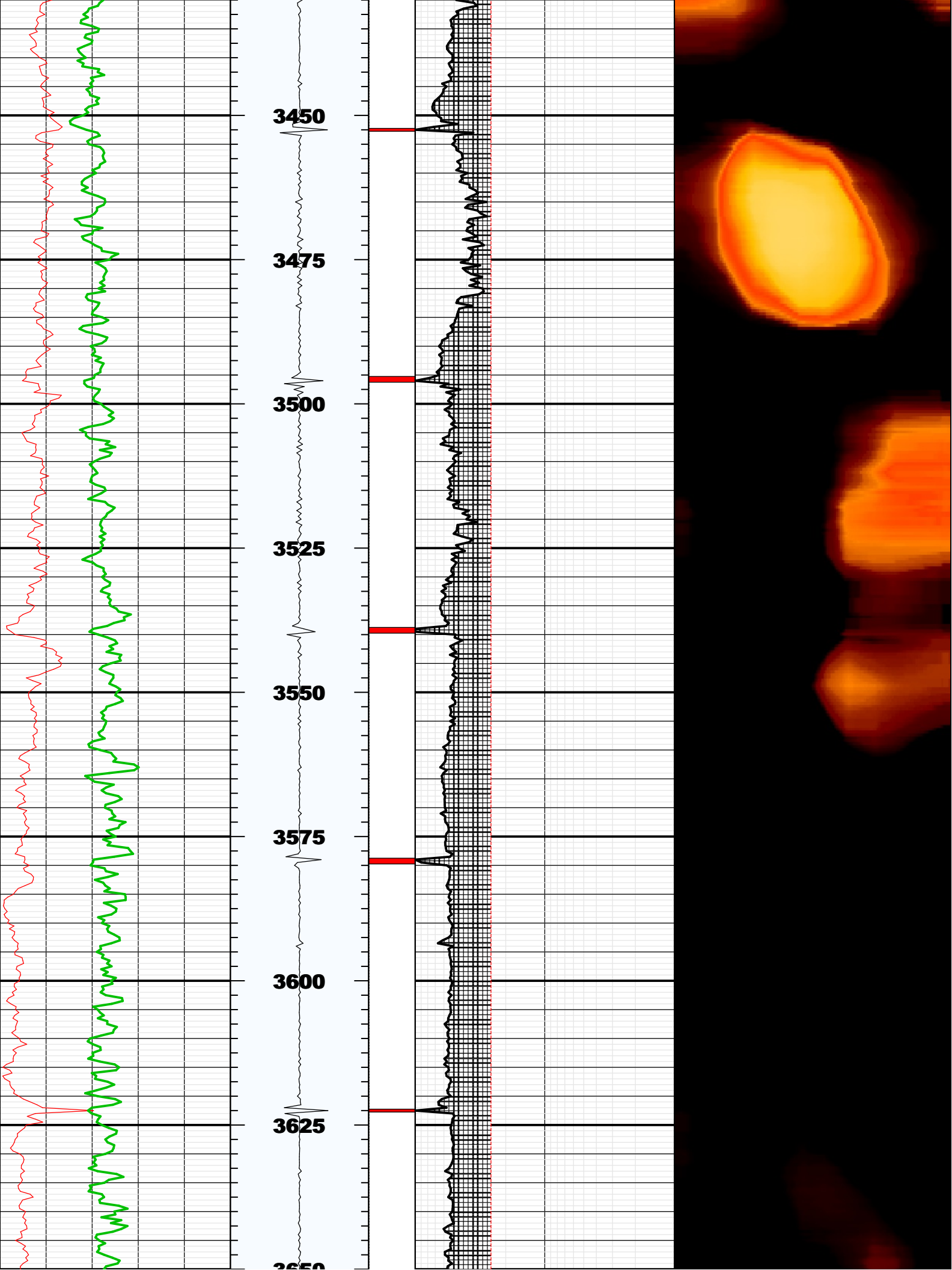


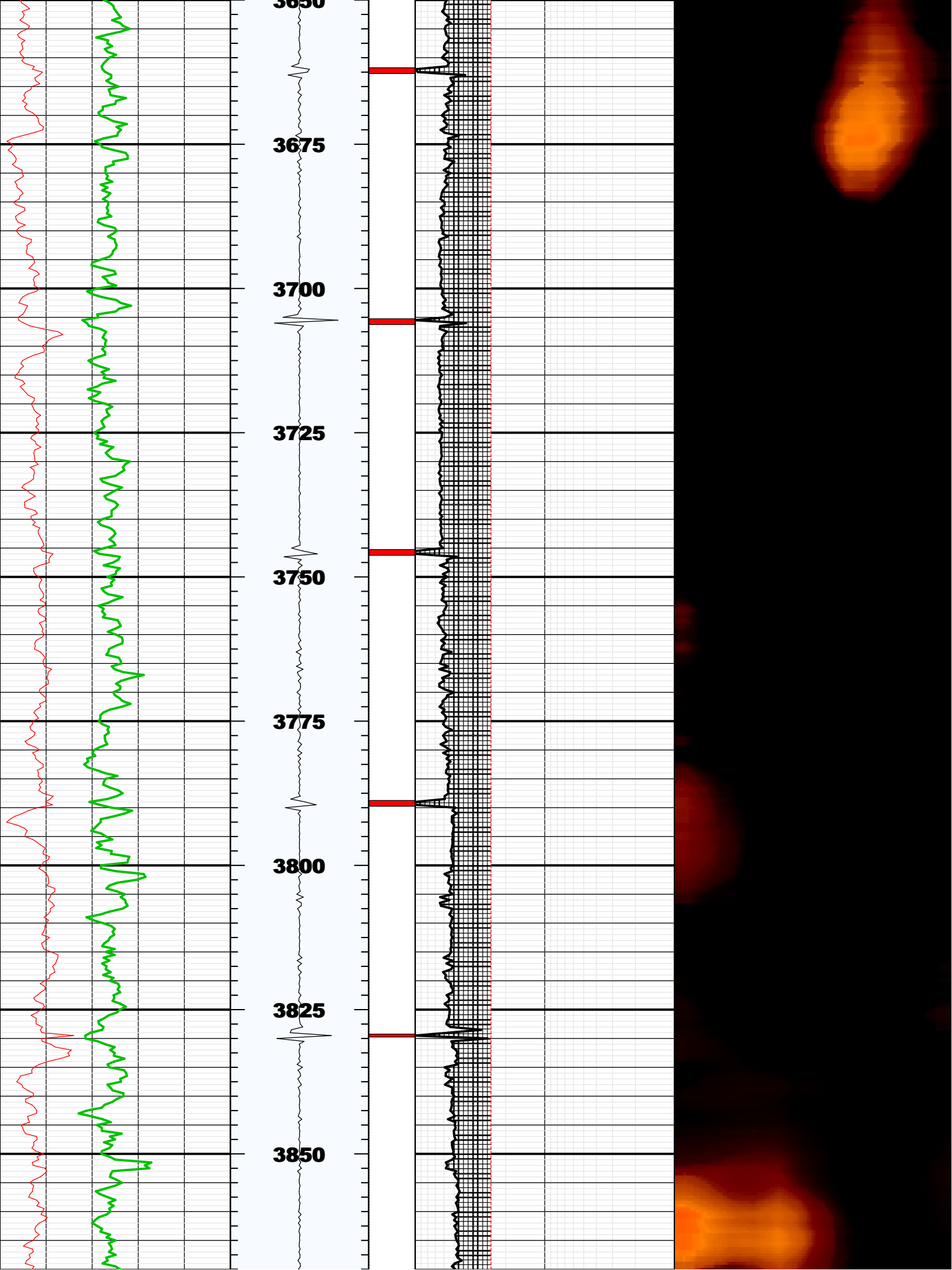


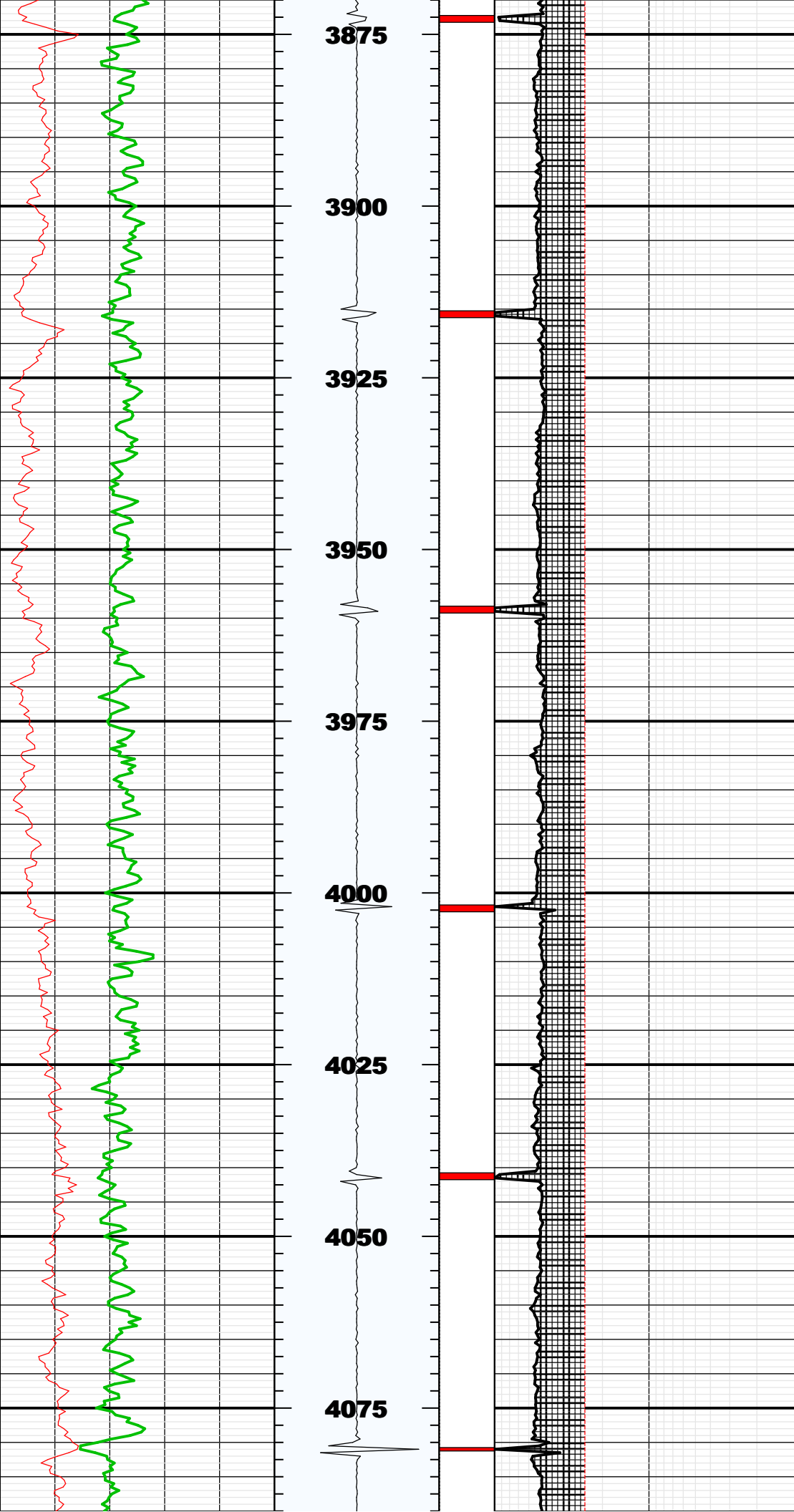


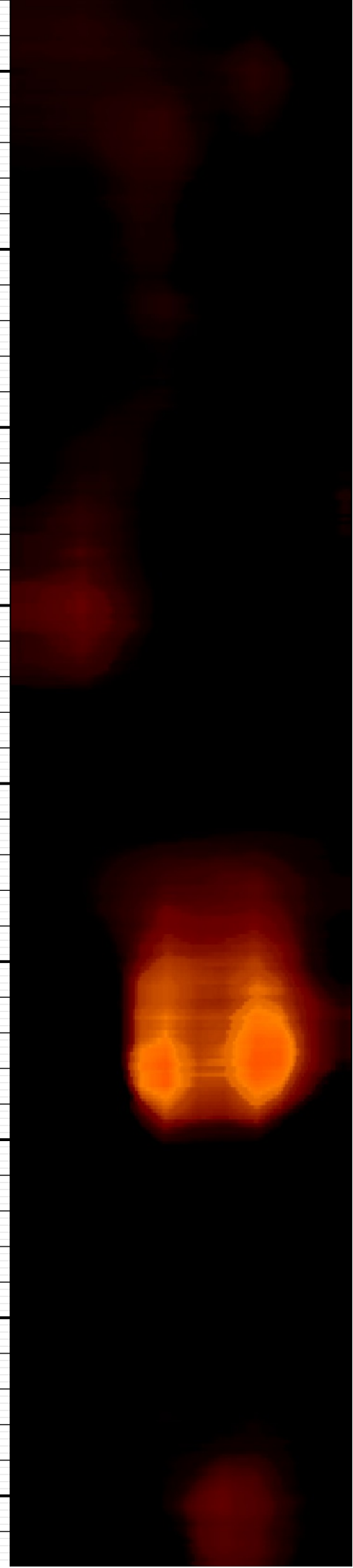
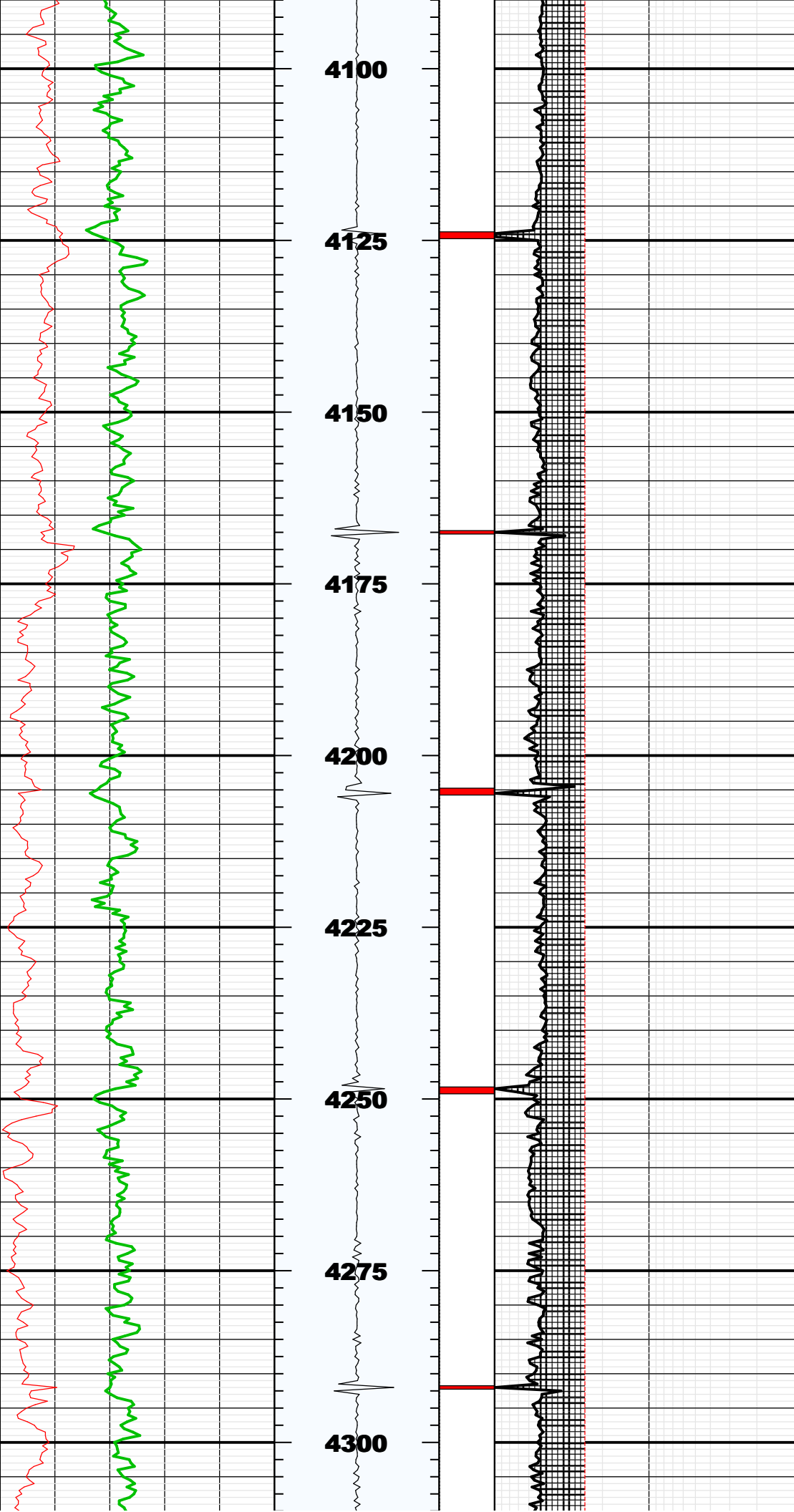


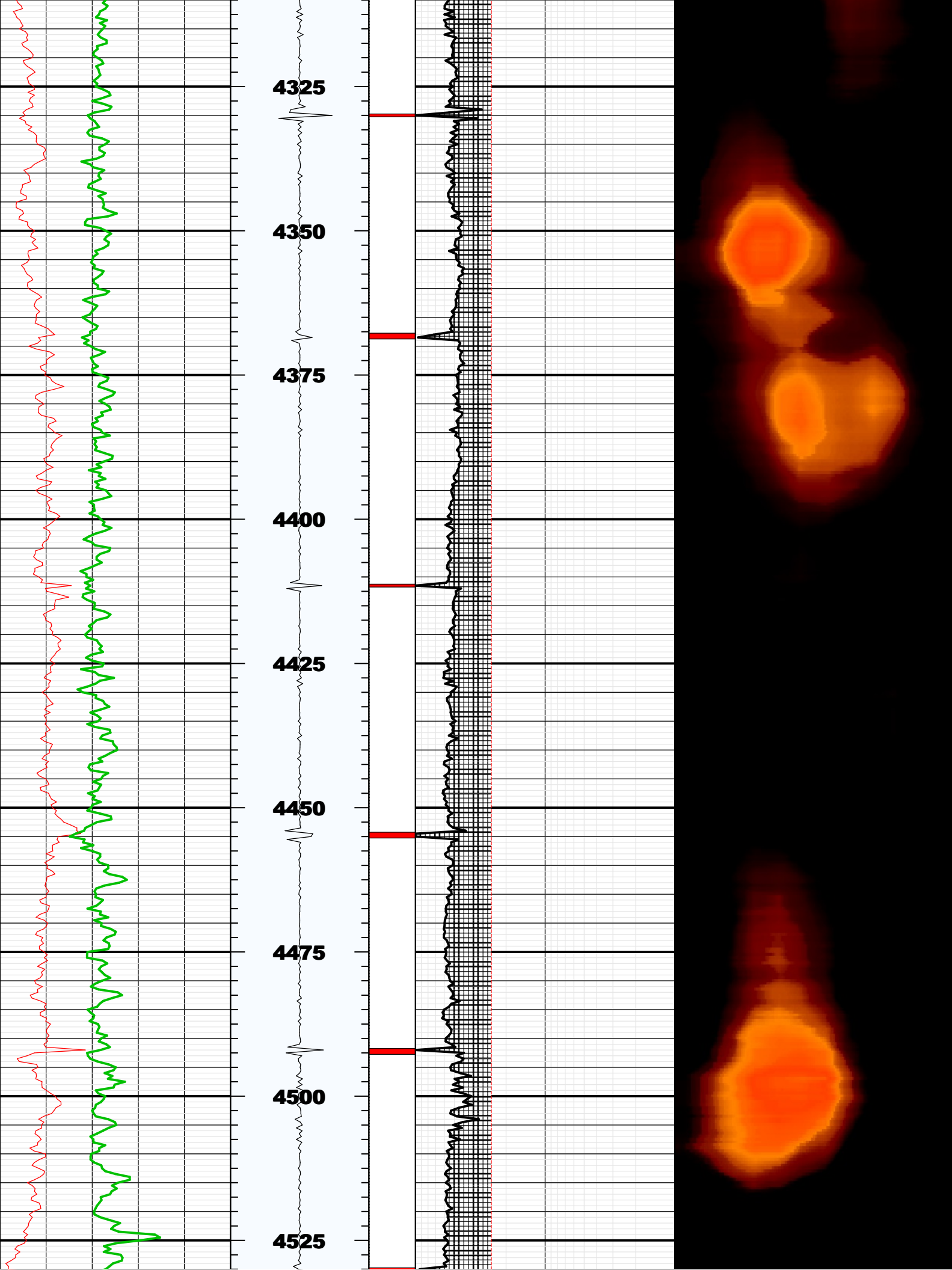


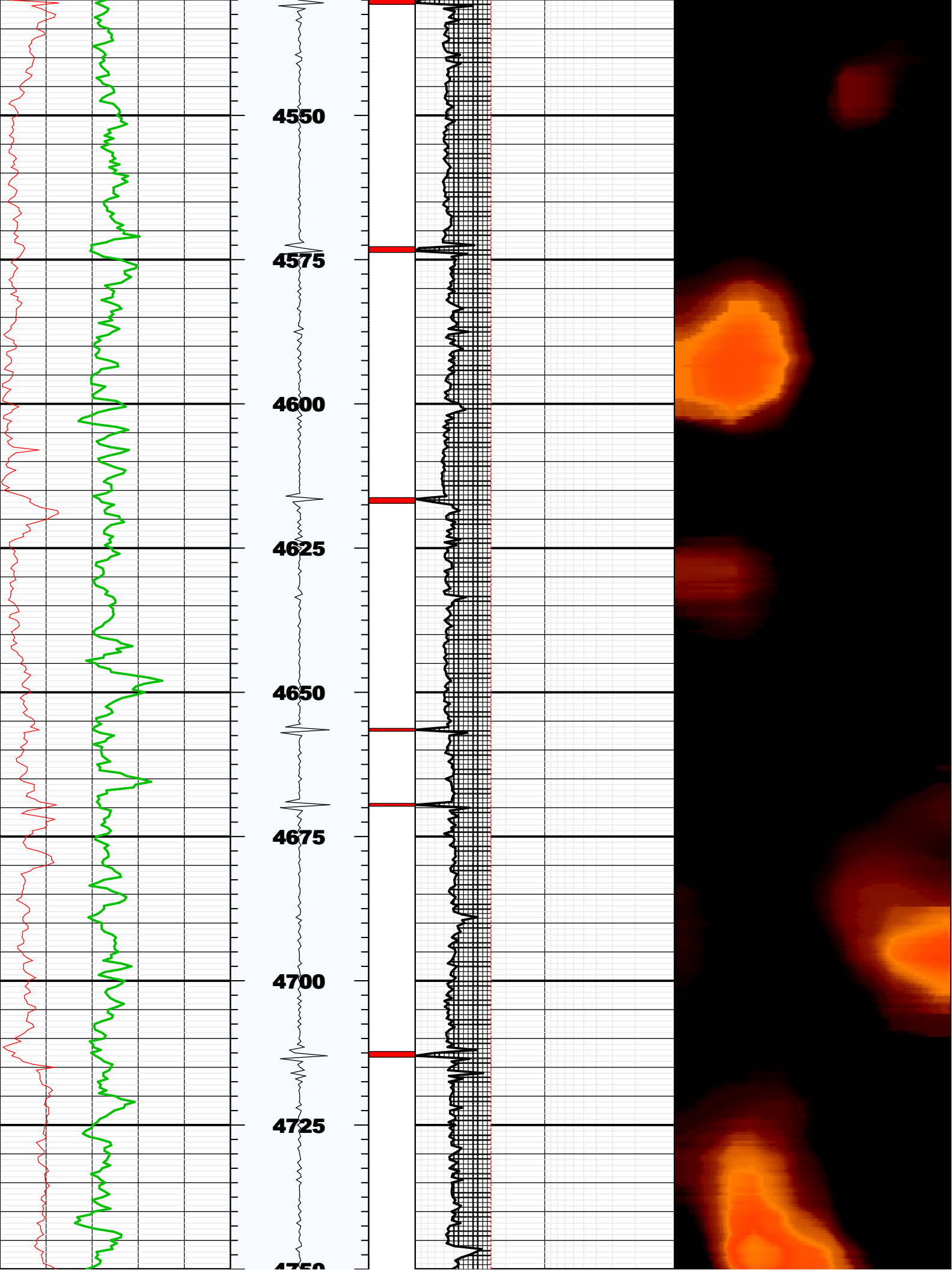


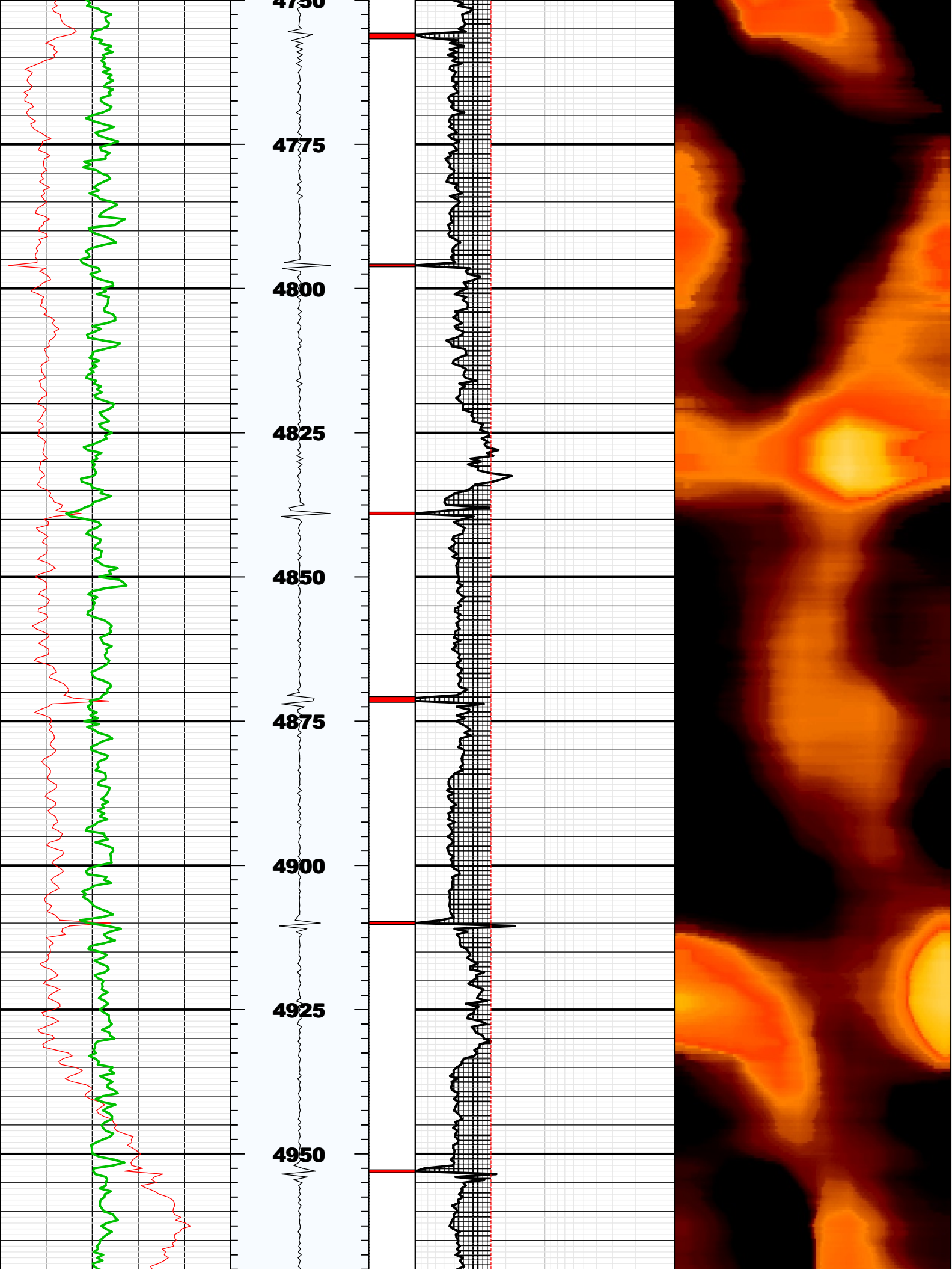


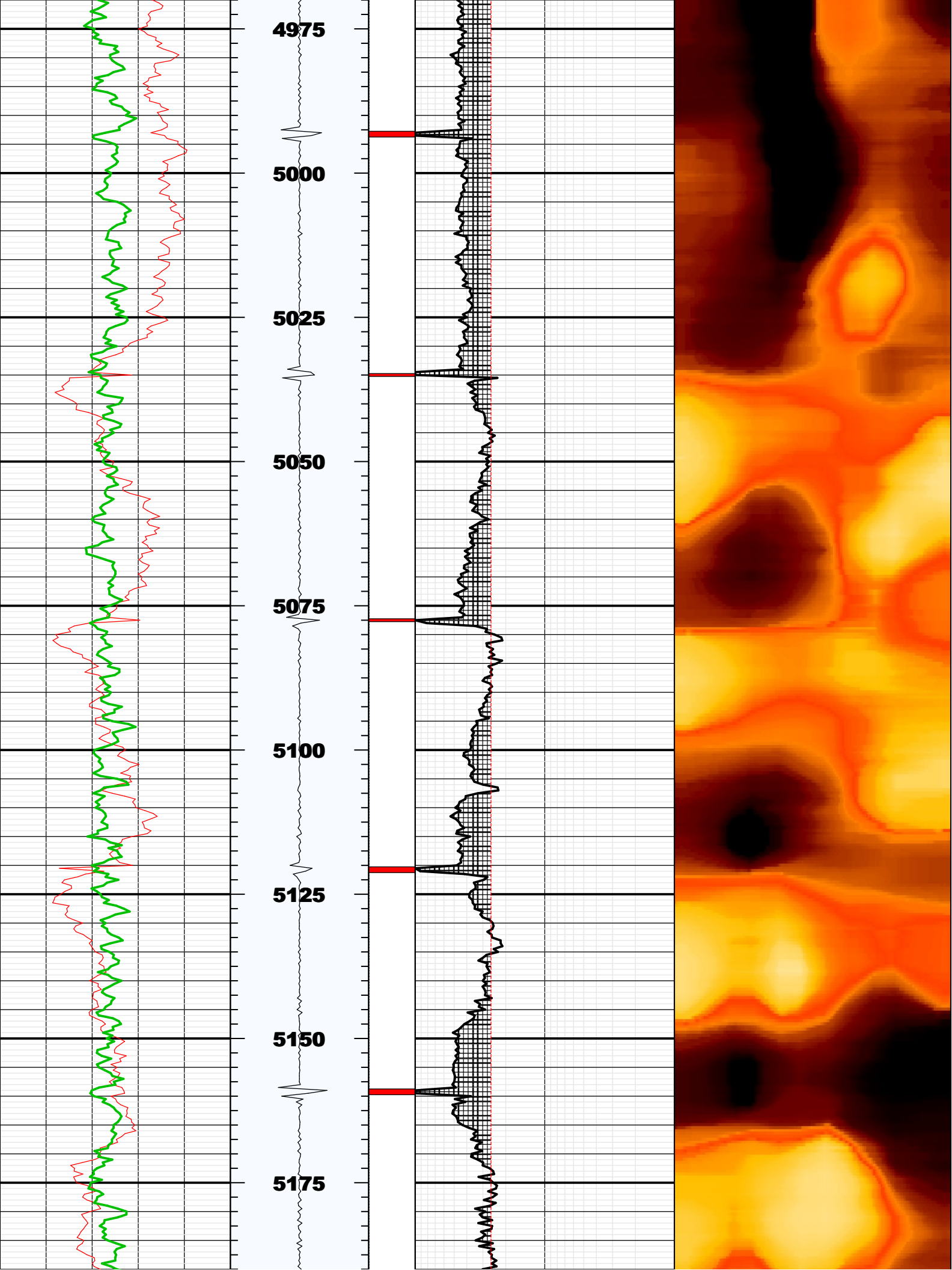


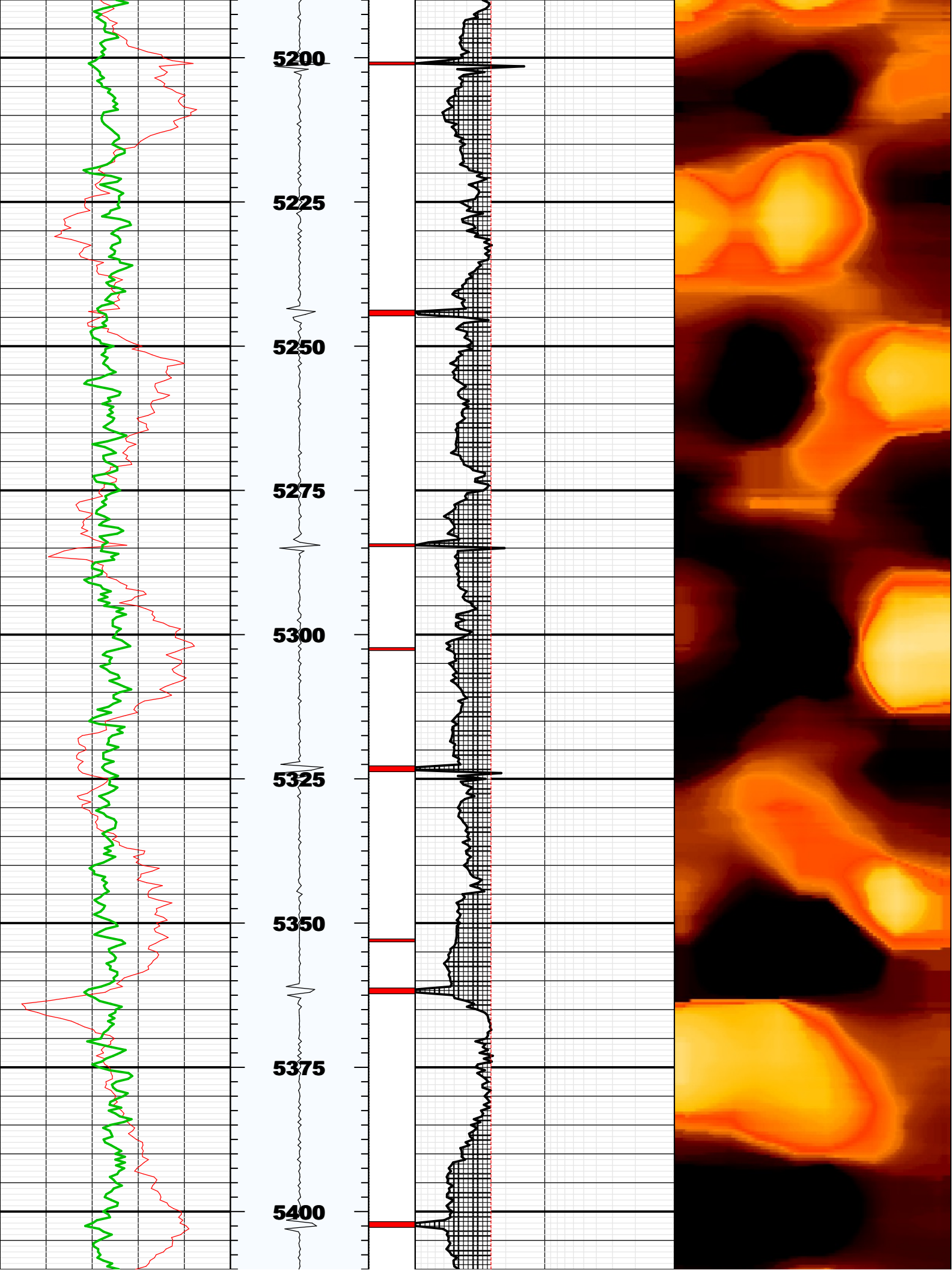


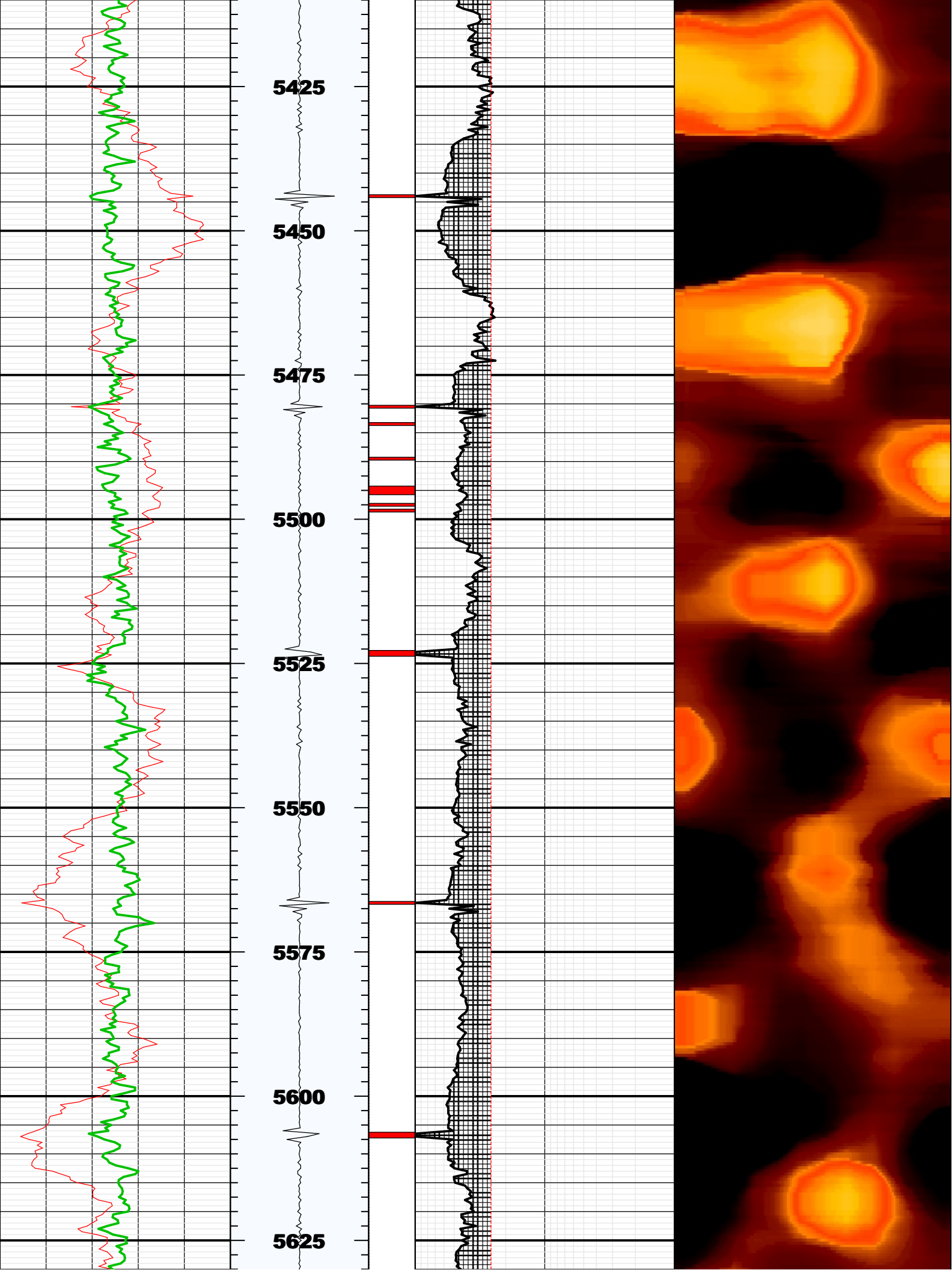


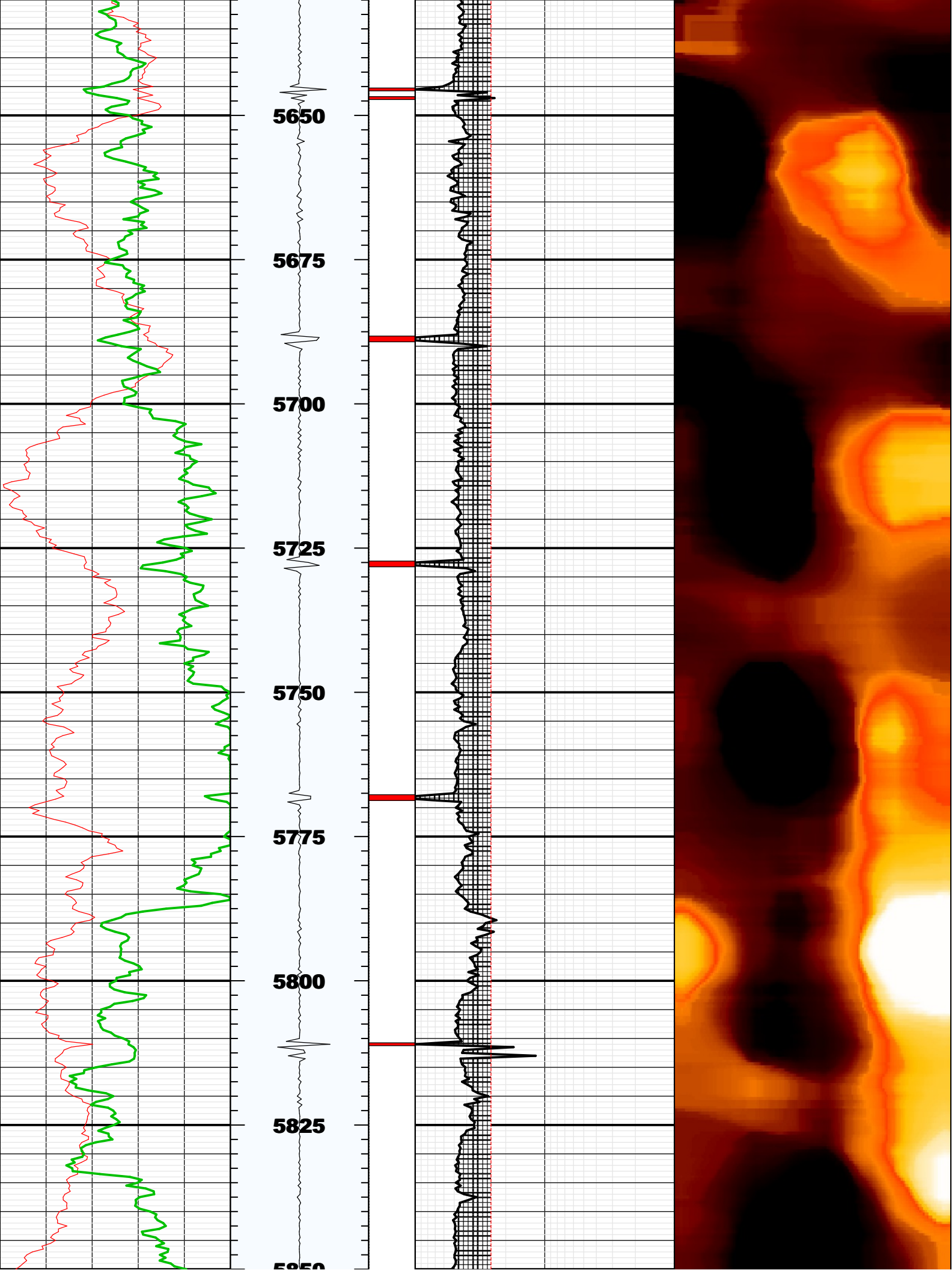


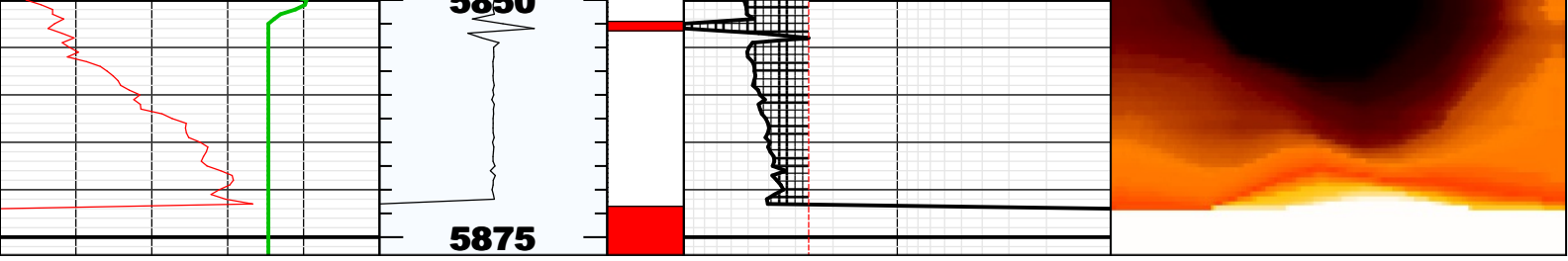








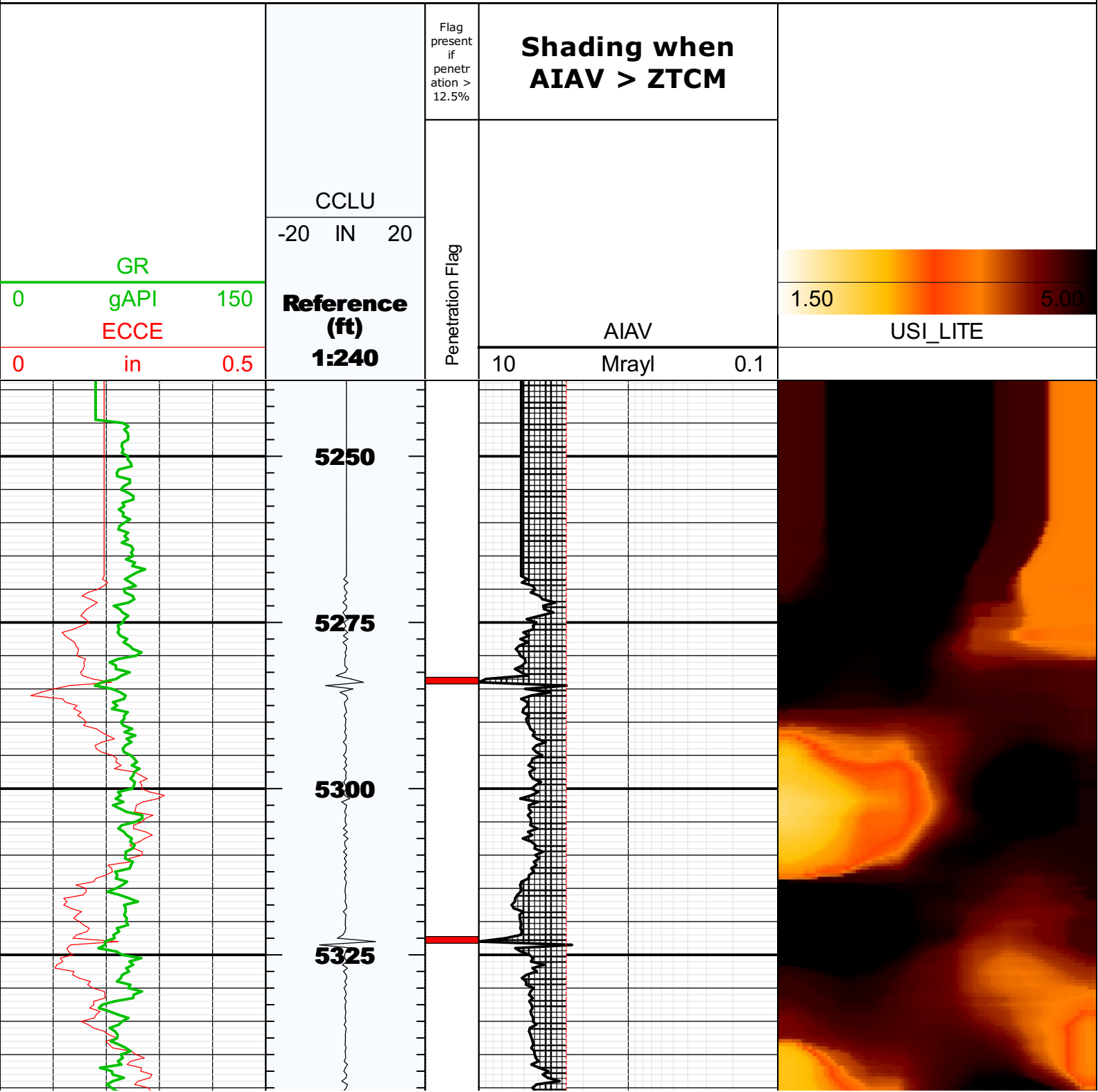


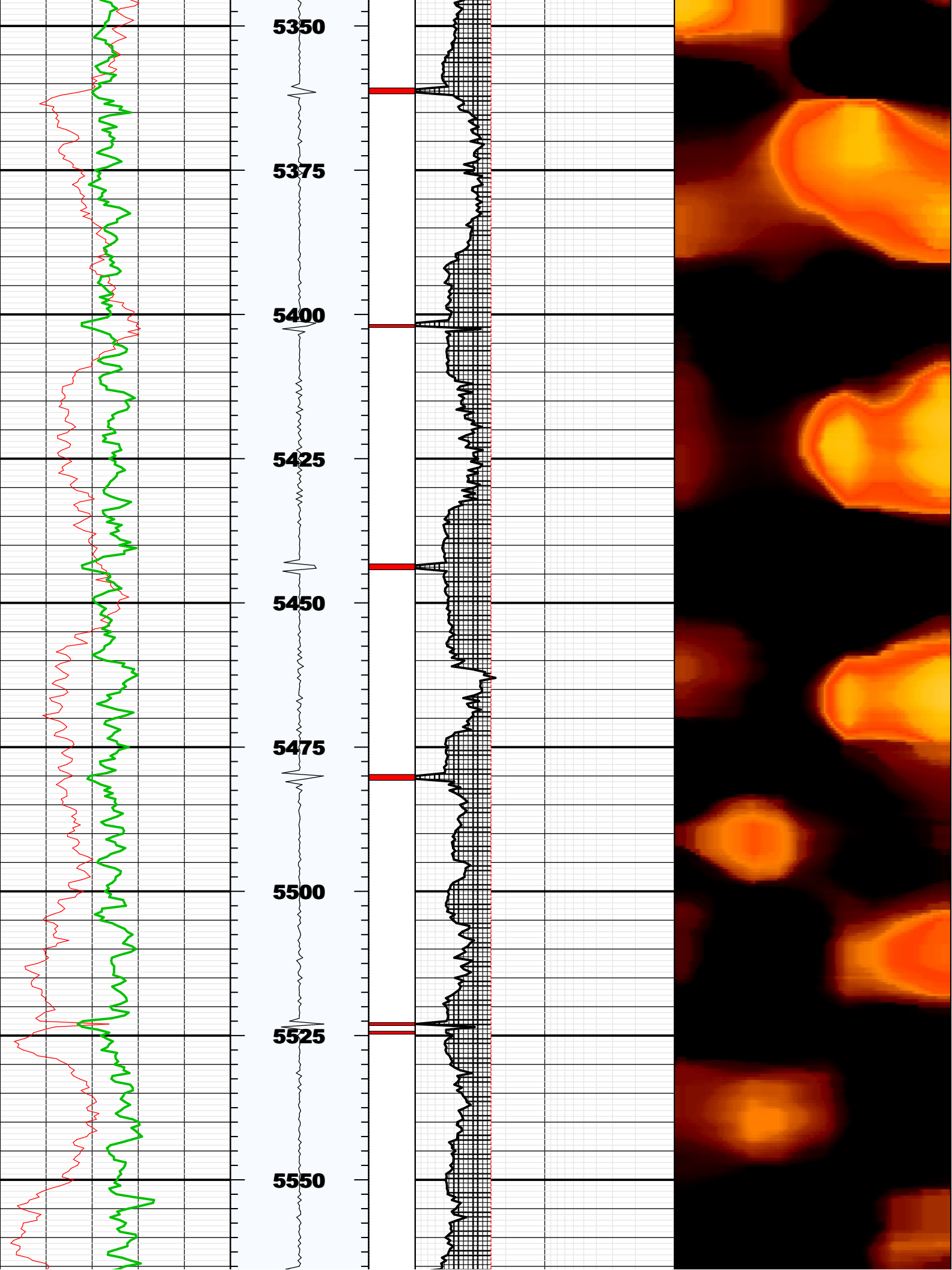


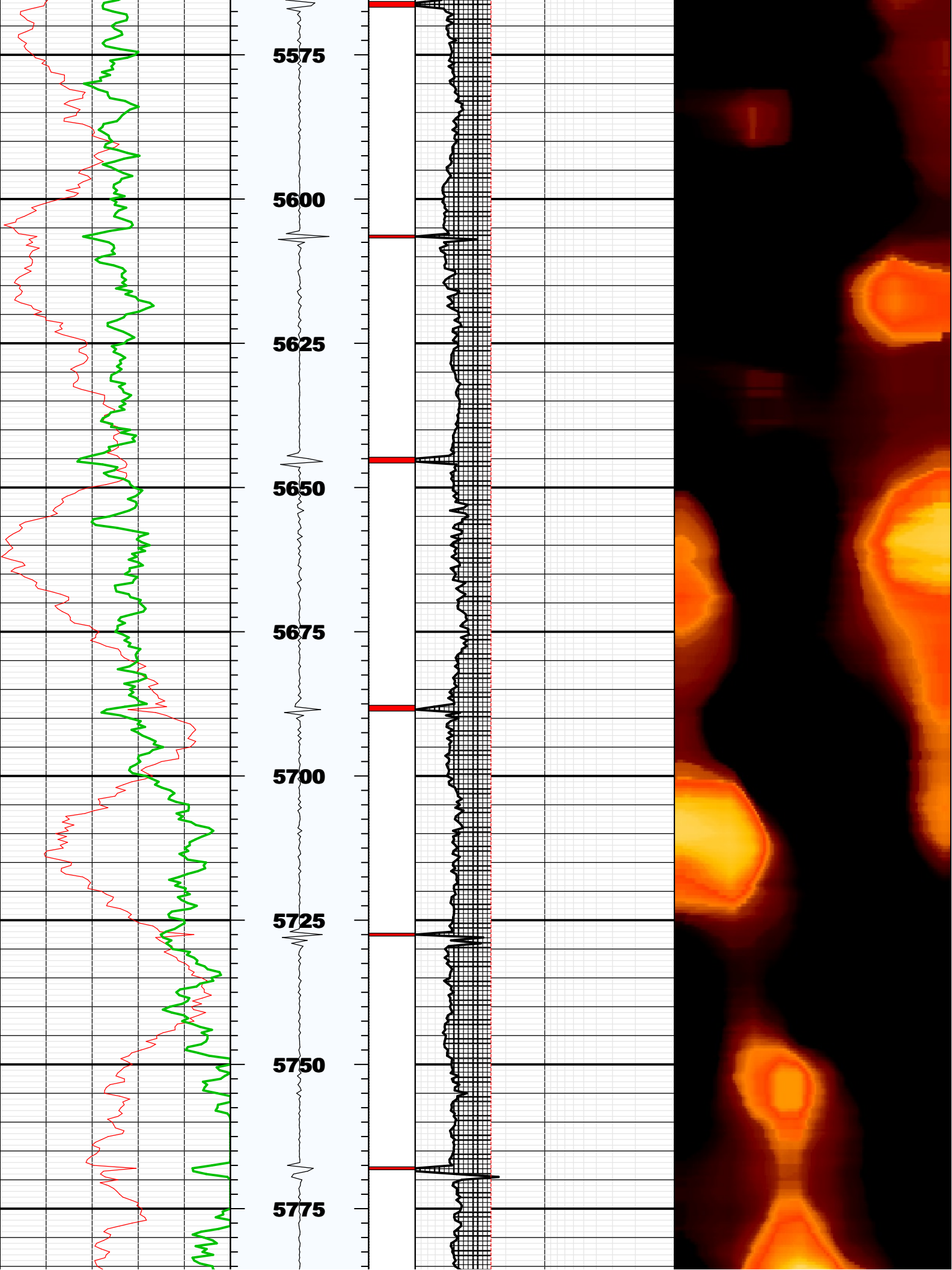
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	188.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	100	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	30.54326	US	Window Begin Time
WINE	75.20908	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

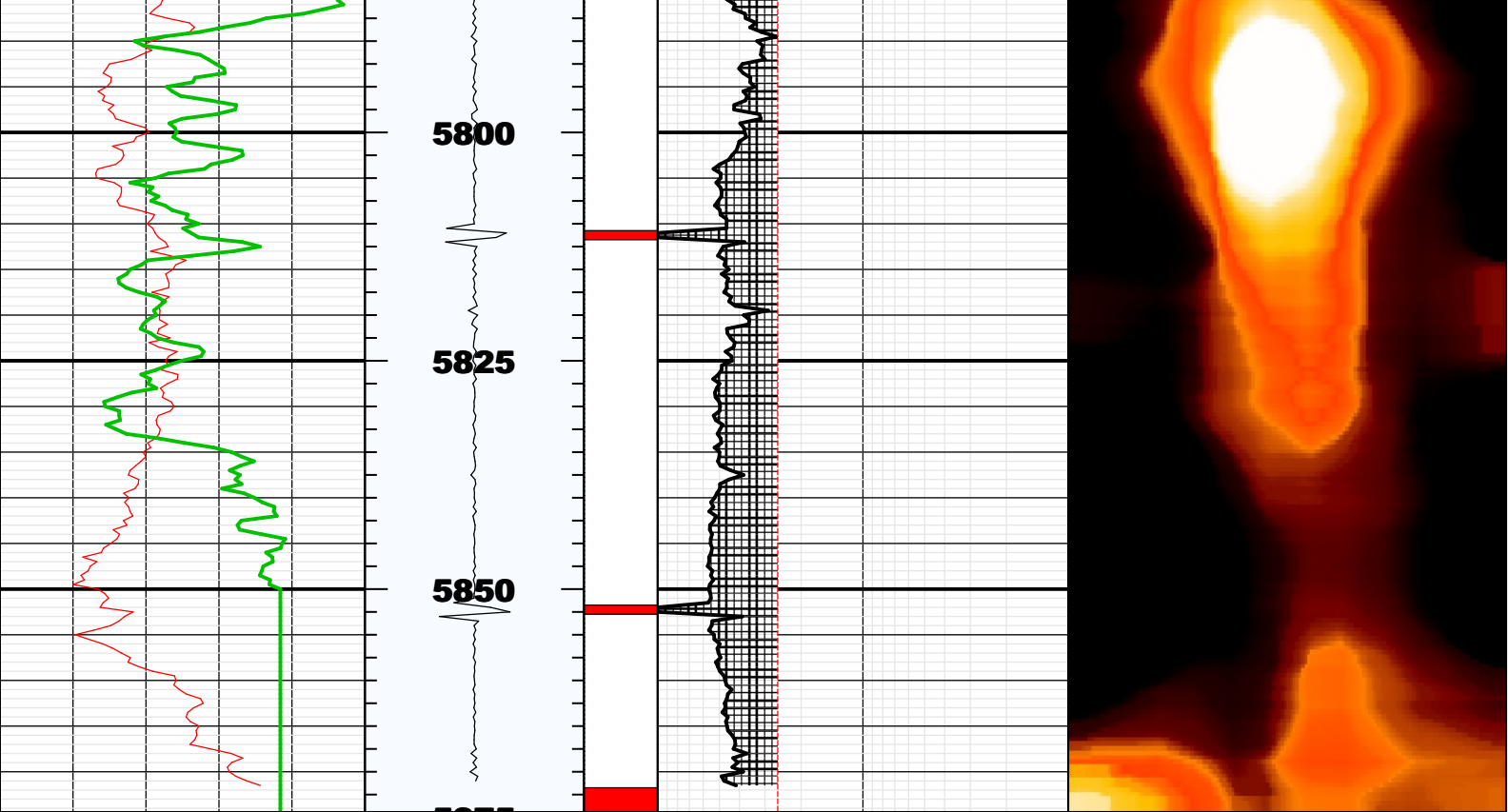
Repeat Pass

Company: Noble Energy inc
Well: Rohn State LD10-63-1HN
Field: Wattenberg









Fluid Properties Used for Main Pass

