

Company: Noble Energy Inc

Well: Rohn State LD03-63HN
Field: Wildcat
County: Weld State: Colorado

County: Weld		USI-LITE (2500 psi)					
Field: Wildcat							
Location: NESE Sec. 4 T9N R58W							
Well: Rohn State LD03-63HN							
Company: Noble Energy Inc							
LOCATION		Permanent Datum: Log Measured From: Drilling Measured From:	GL KB KB	Elev: K.B. 4729.0 F G.L. 4705.0 F D.F. 4728.0 F			
API Serial No. 05-123-37453-0000					Section 4	Township 9N	Range 58W
Logging Date 15-Oct-2014							
Run Number Run 1							
Depth Driller 6030.0 F							
Schlumberger Depth 5770.0 F							
Bottom Log Interval 5770.0 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 5770.0 F							
To -999.2 F							
Casing Size 7.00 IN							
Weight 26.00 LB/F							
Grade P110							
From 24.0 F							
To 6020.1 F							
Max Recorded Temp 223.9							
Logger on bottom (date) 15-Oct-2014							
Location Ft Morgan CO							
Recorded By MK Henrikson/K Ondrus							
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: 2858 Calibration Date: Calibrator Serial Number: Number Of Calibration Points: Calibration RMS: Calibration Peak Error:	Serial Number: F713711 Length: 17300.00000

DISCLAIMER

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11.5 PPG spacer 12.5 PPG lead cement and 13 PPG tail cement
During cement job 3000 PSI held .

0 PSI repeat pass and 2500 PSI main pass.

Estimated TOC @ 800'. Expected TOC @ 1125'.

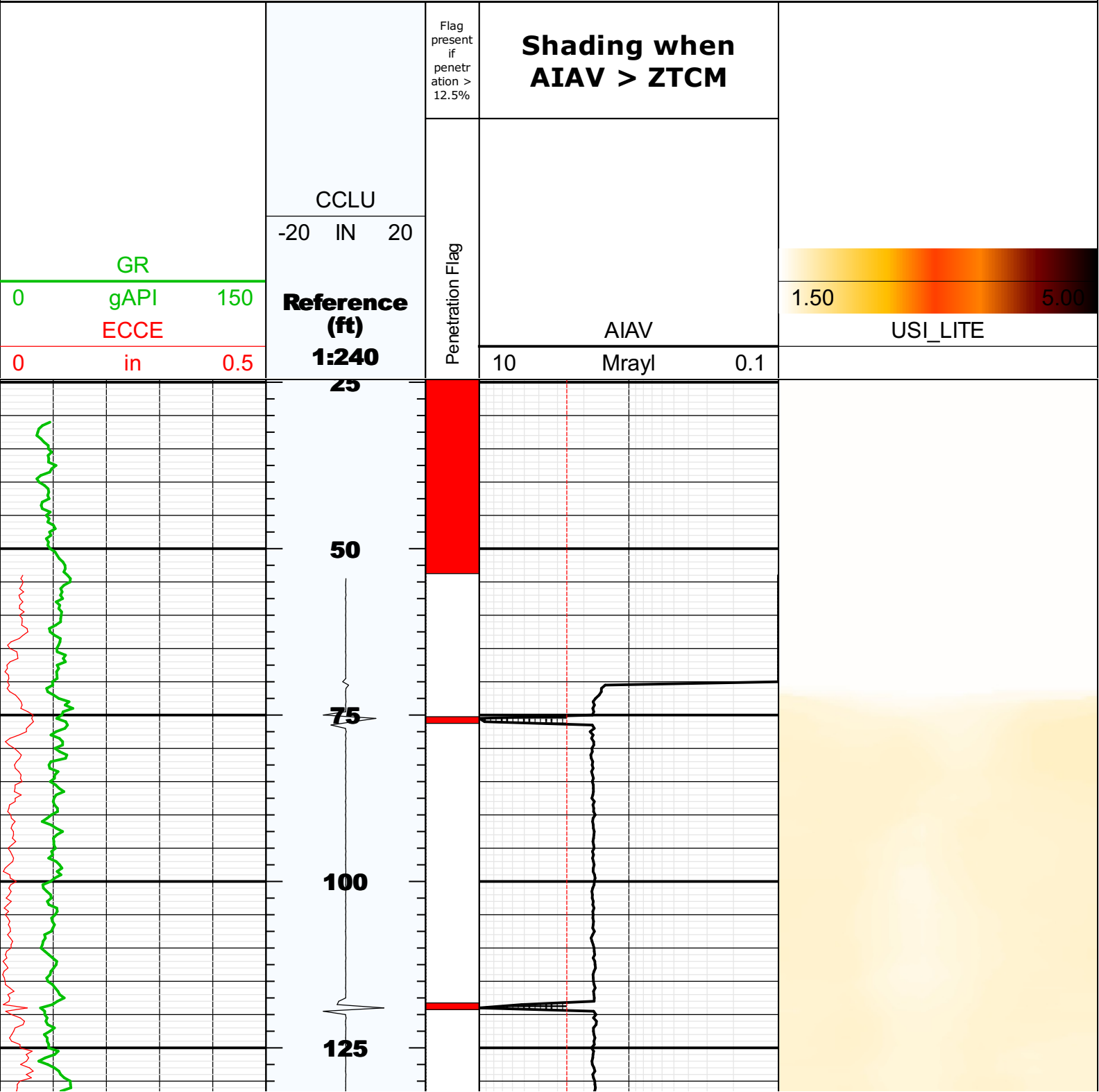
Top of 4.5 liner at 5790.1'.

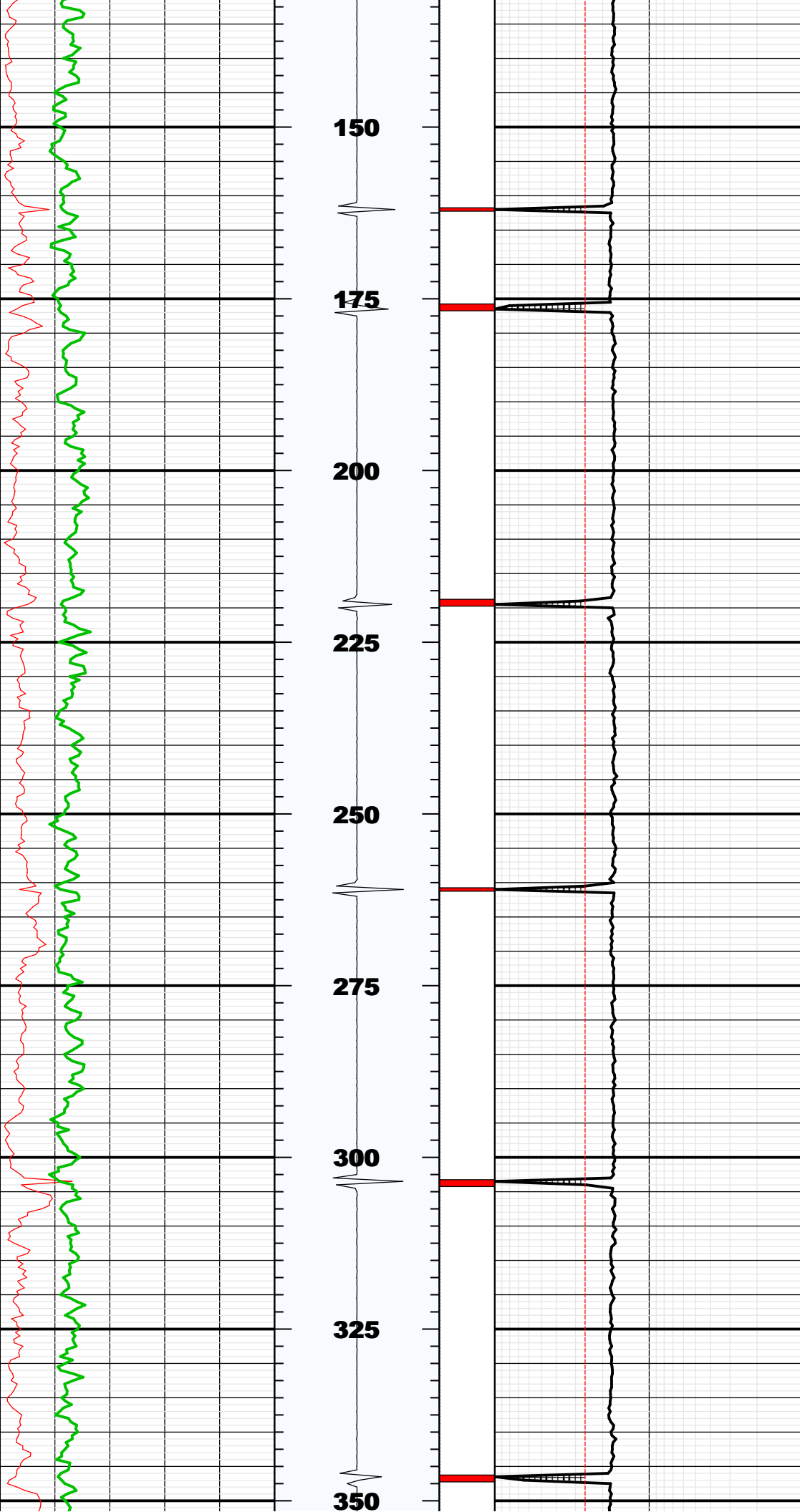
Bottom log interval at 5770' to maintain distance from liner top. Could not spin motor deeper due to debris in well.

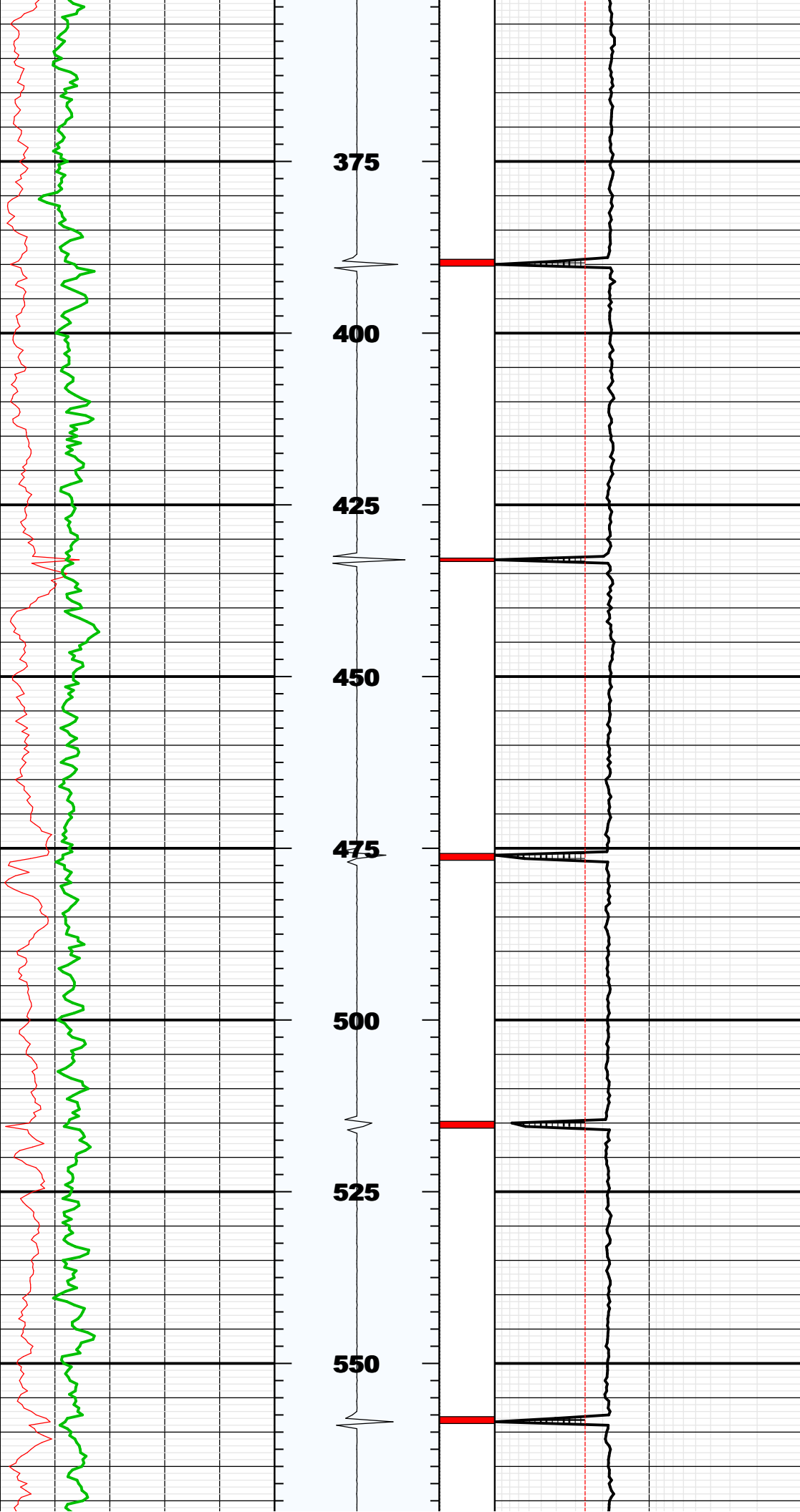
Bottom hole temperature was 223.92 degF.

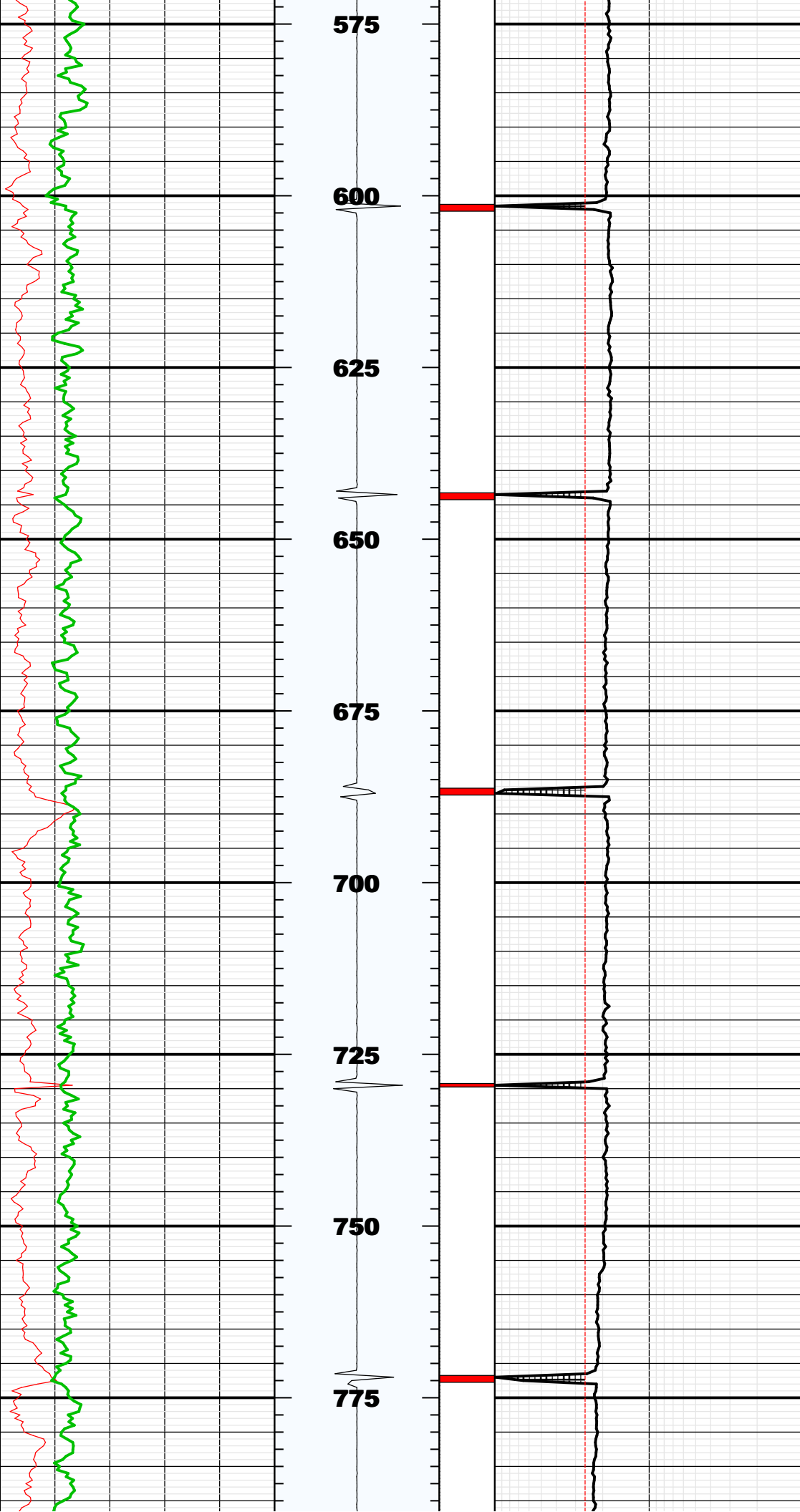
Main Pass

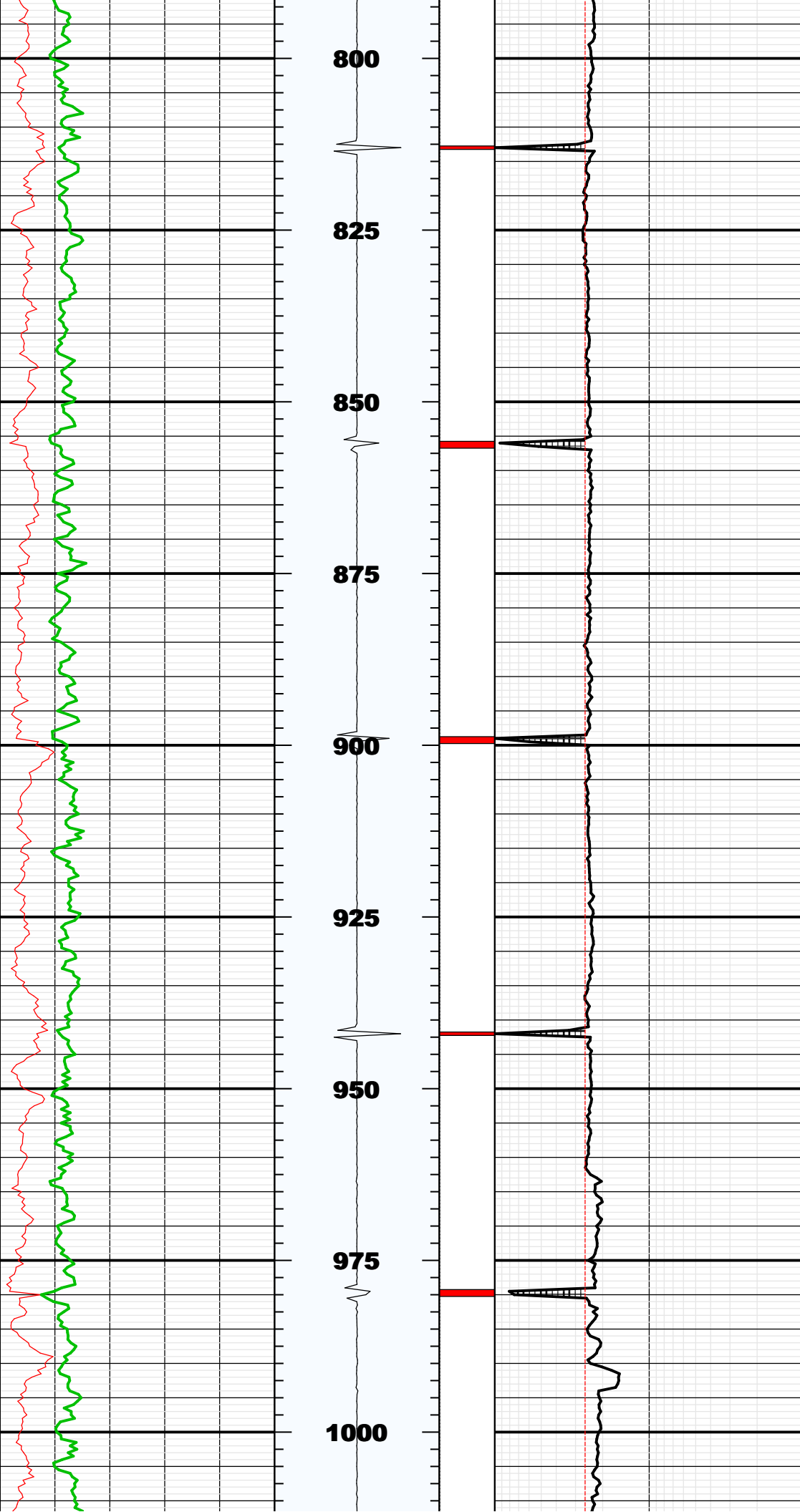
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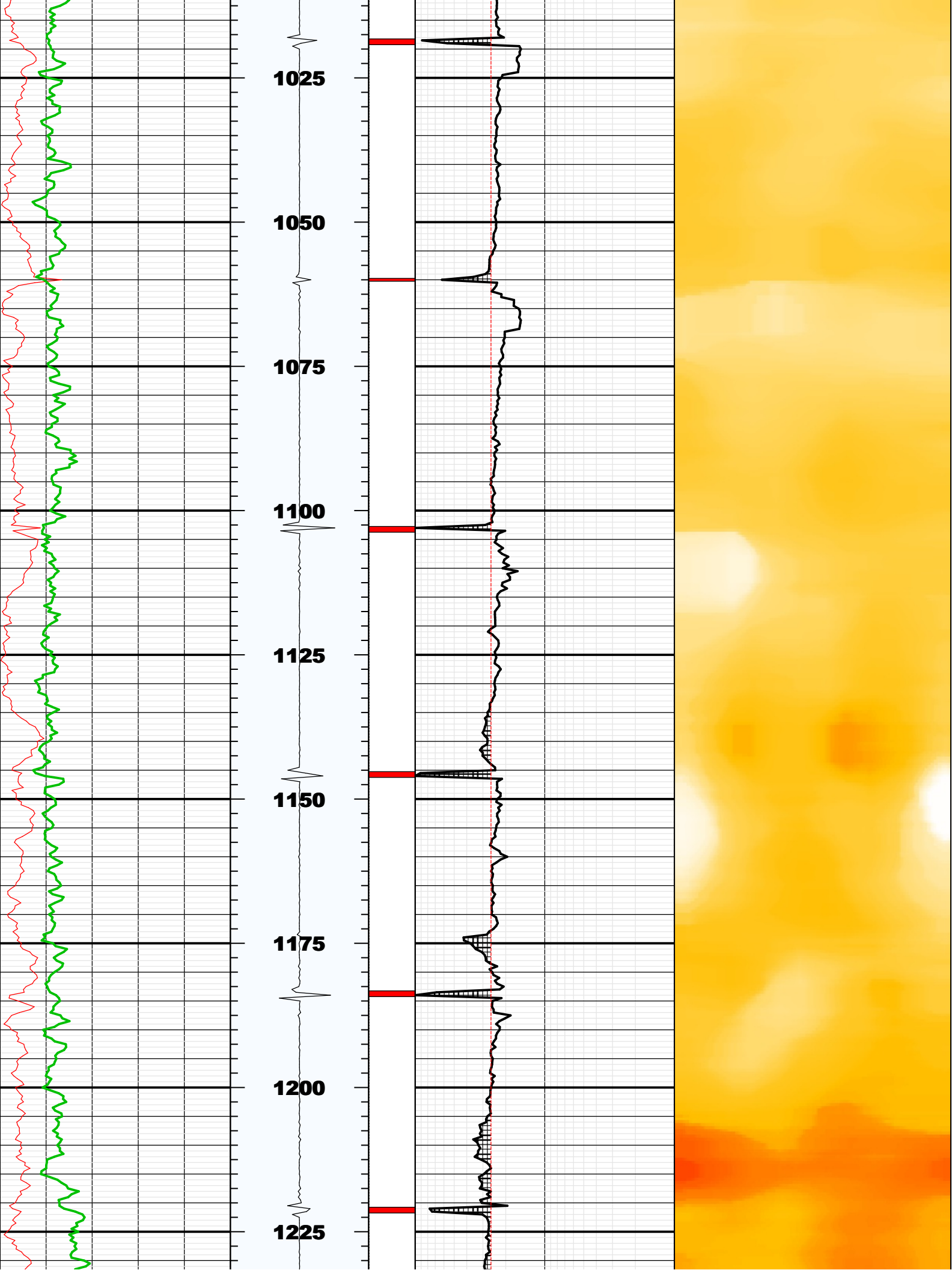


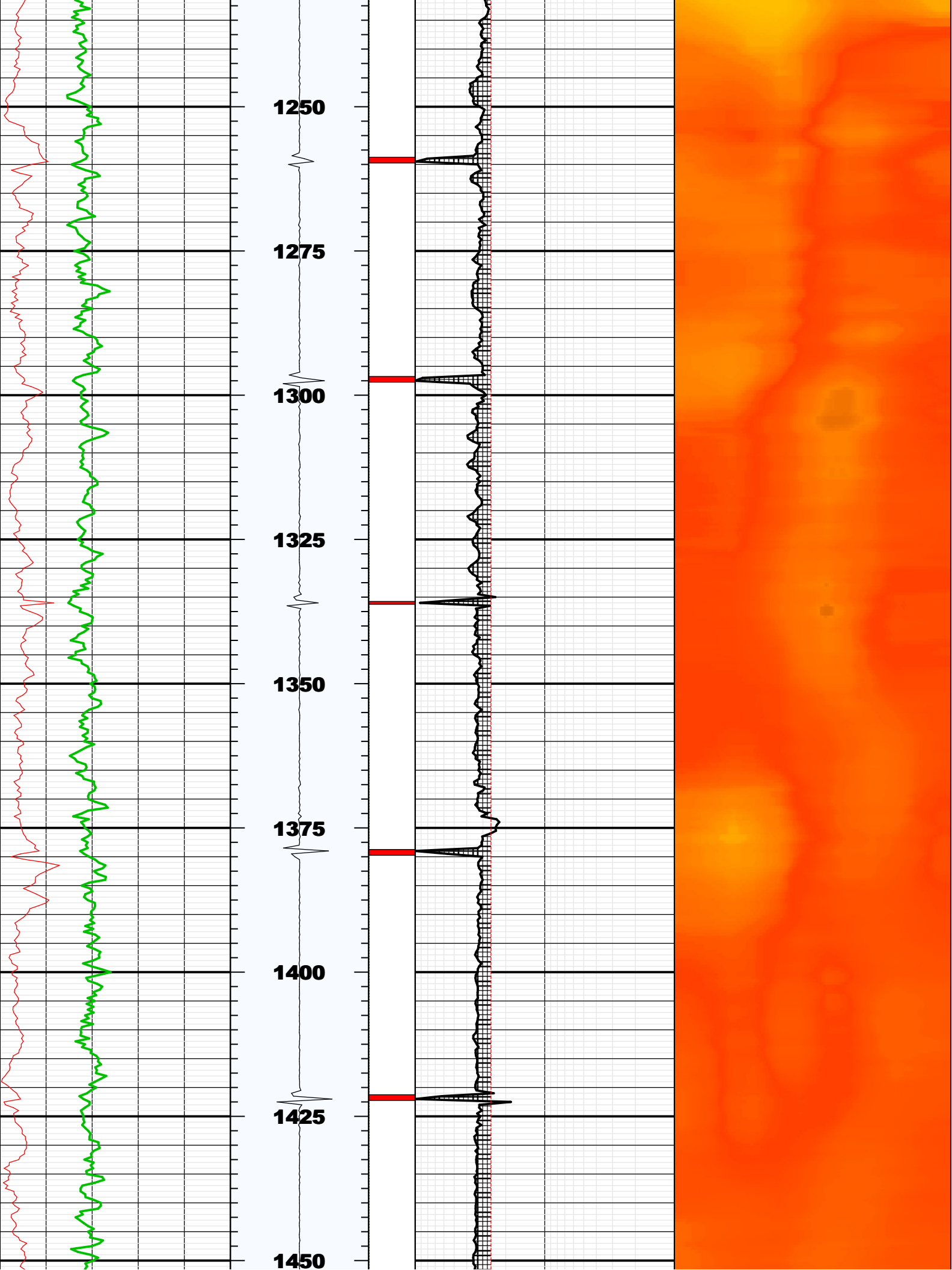


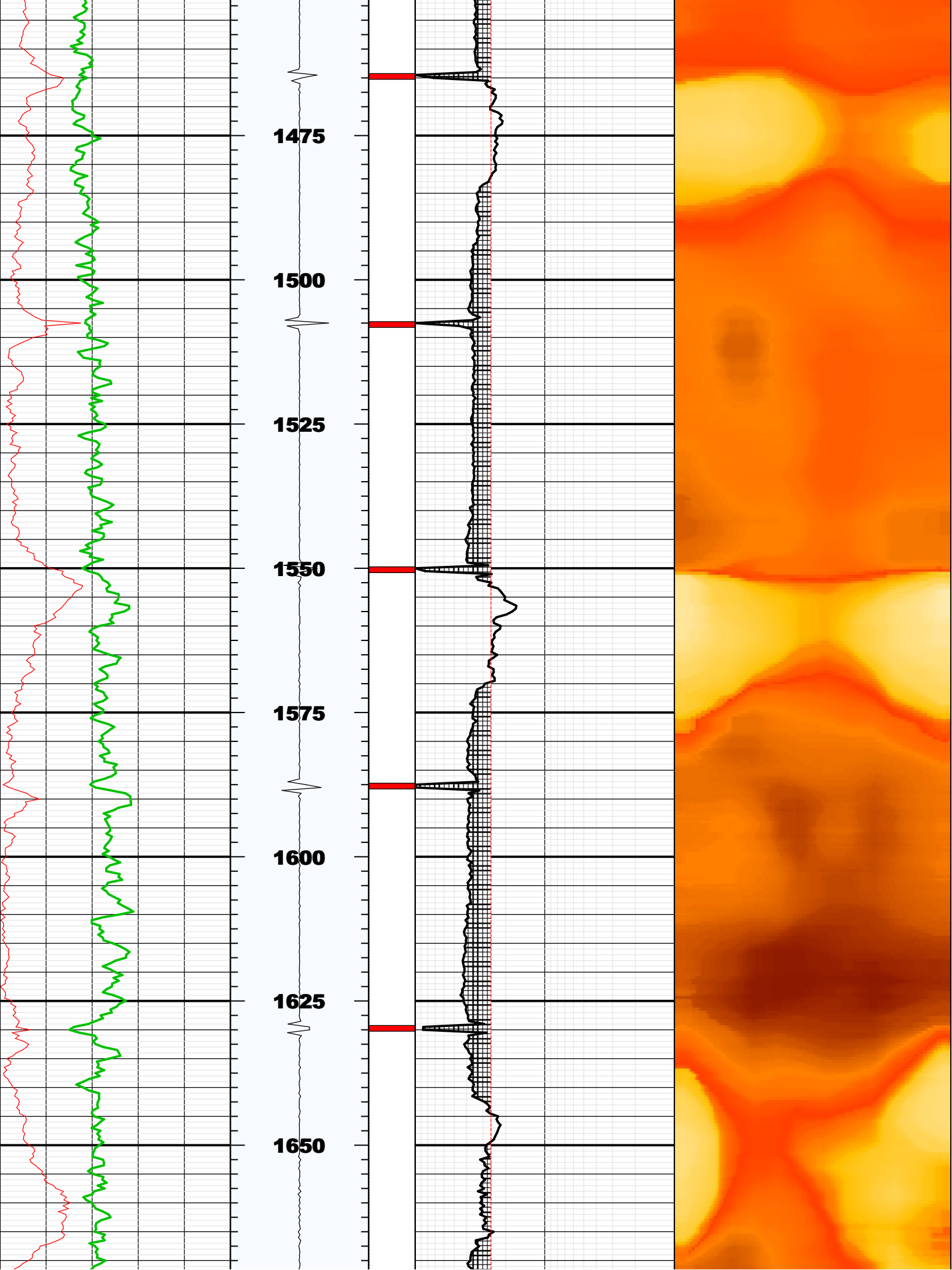


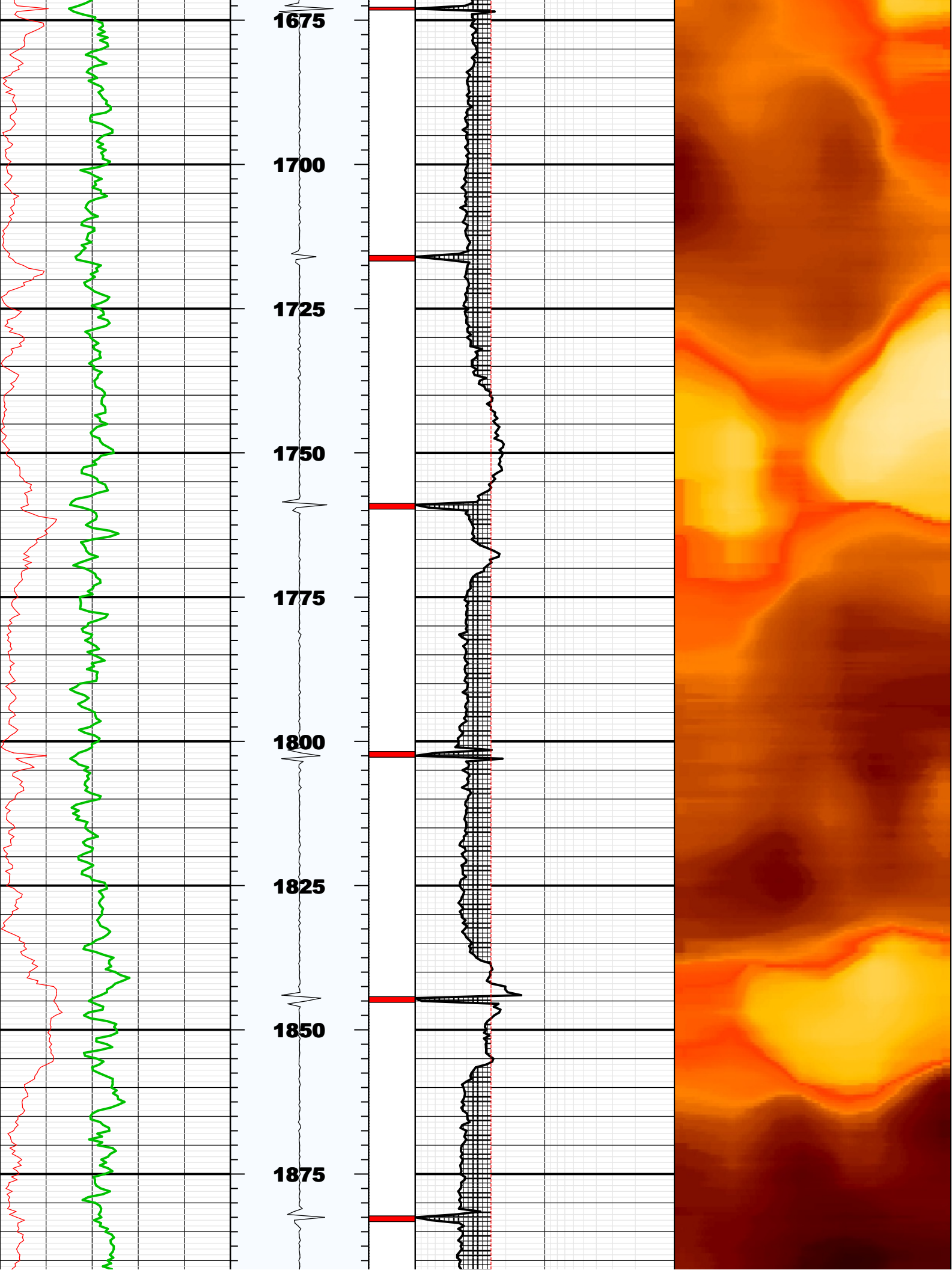


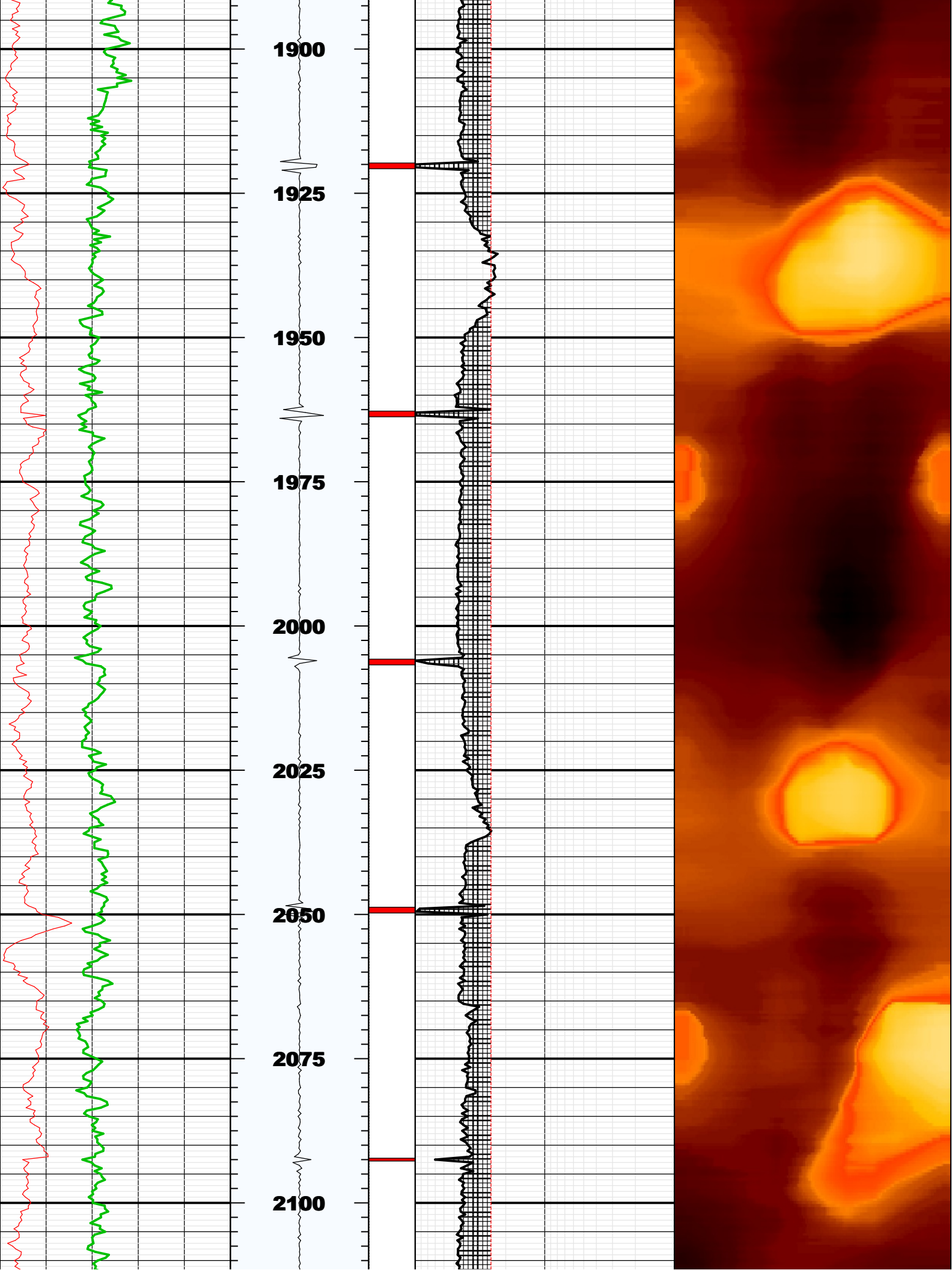


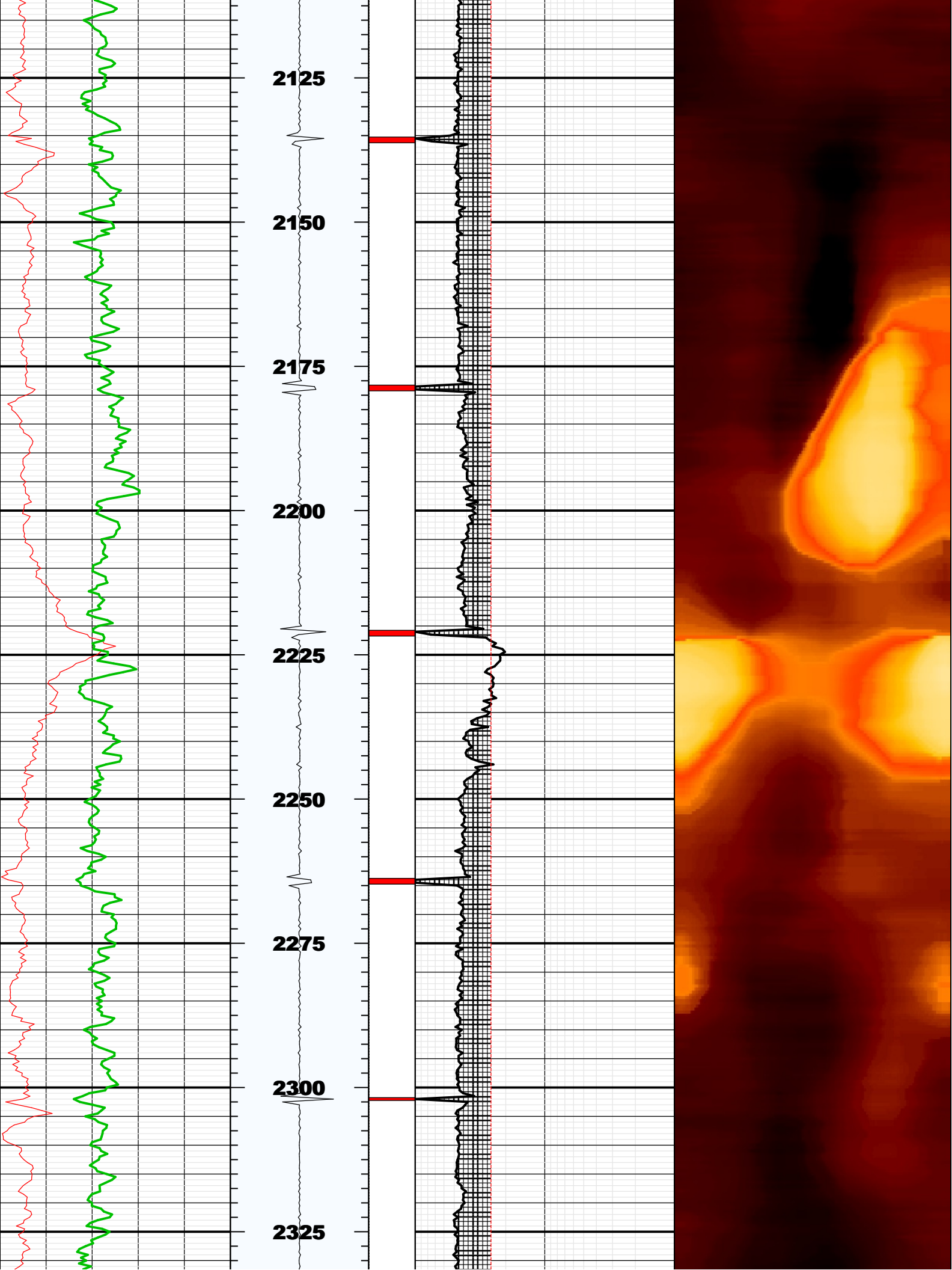


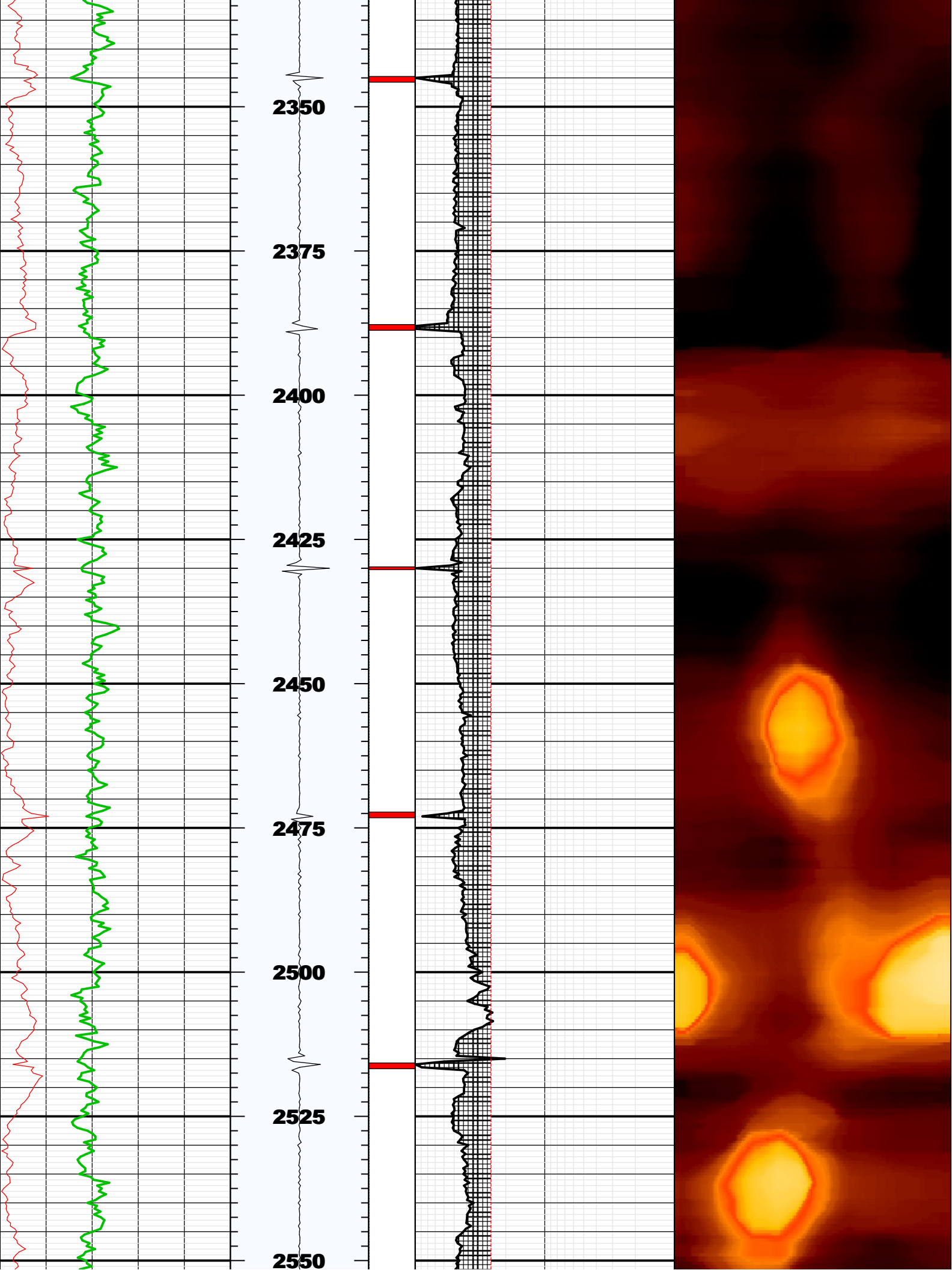


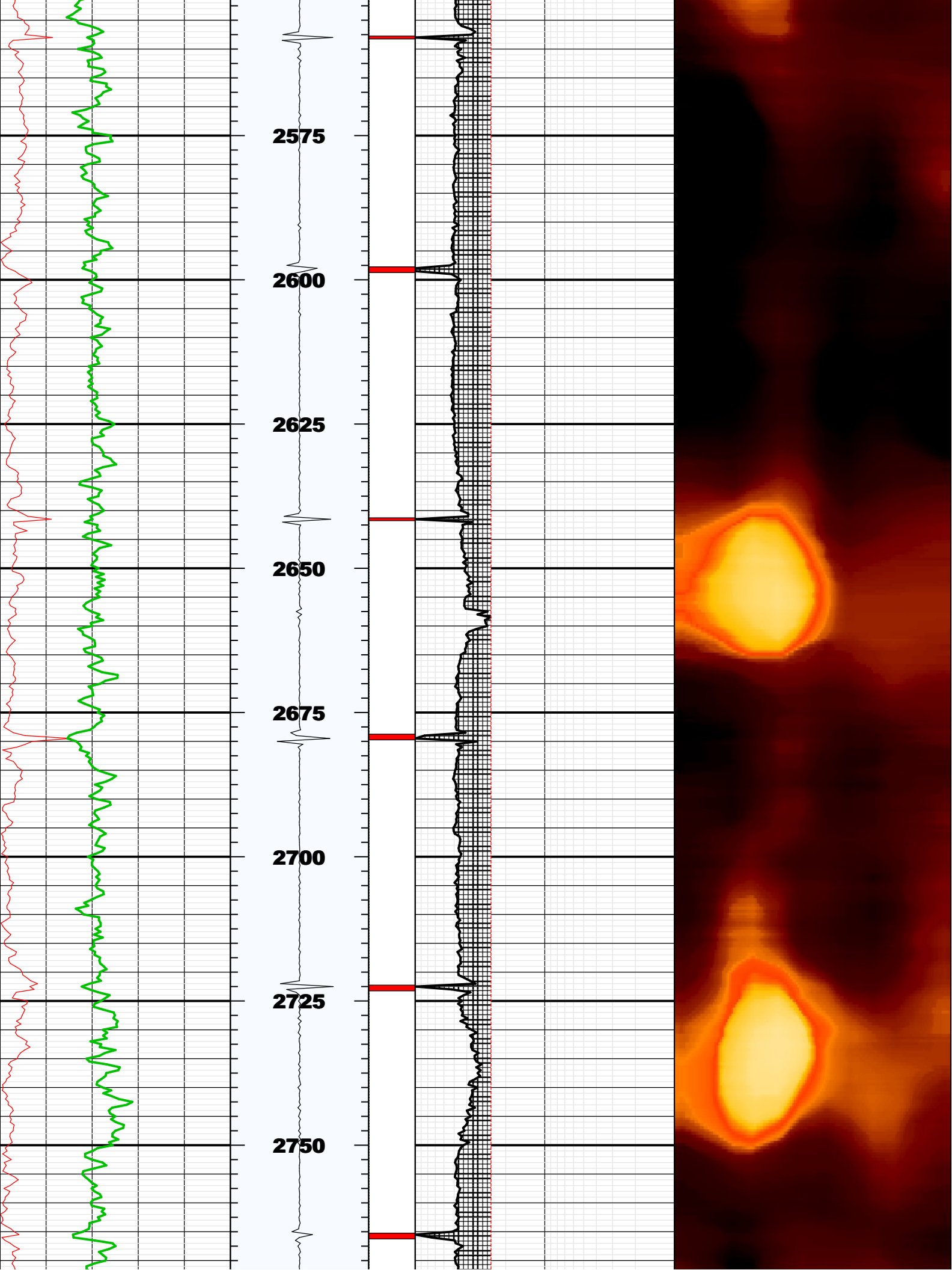


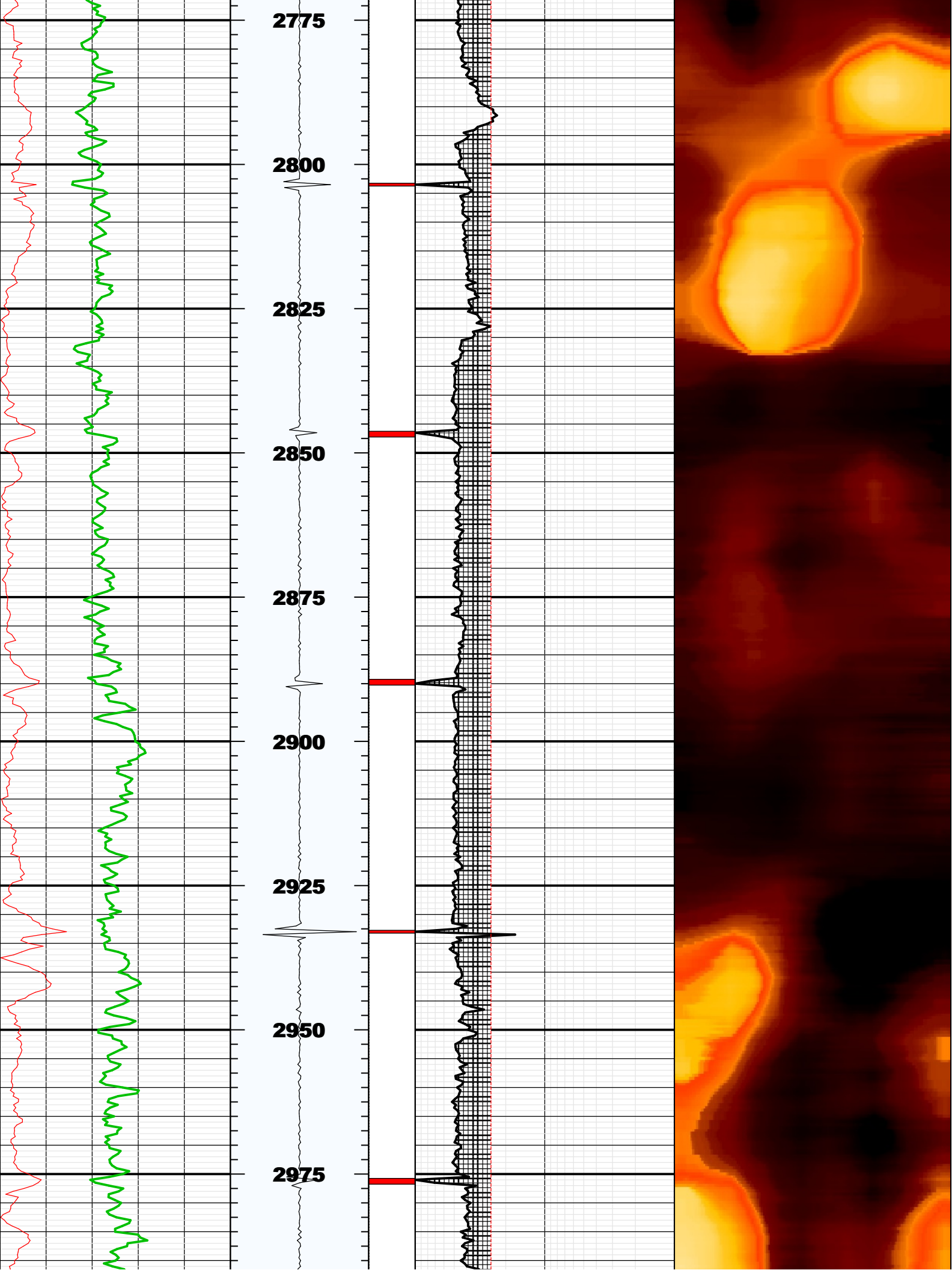


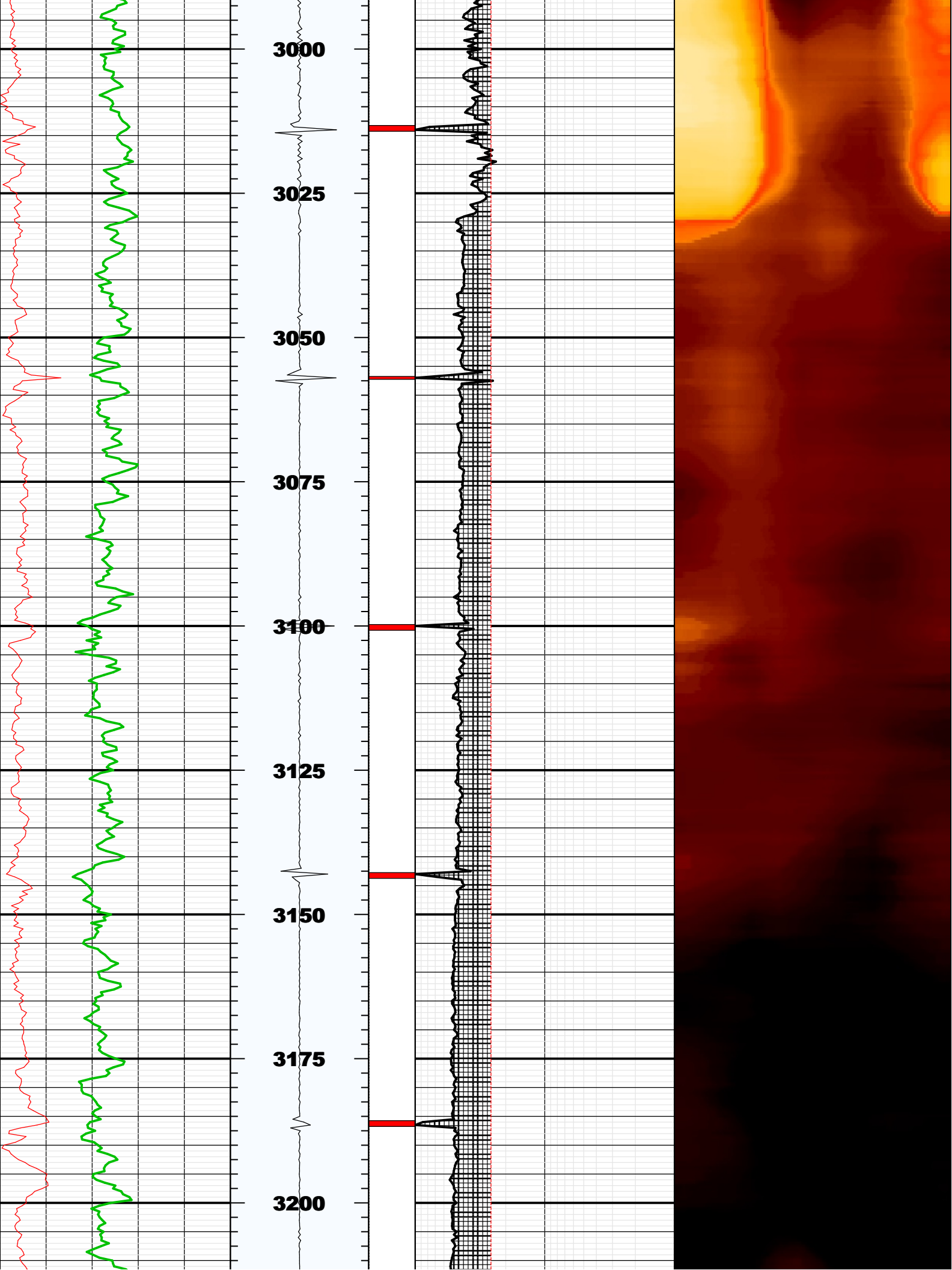


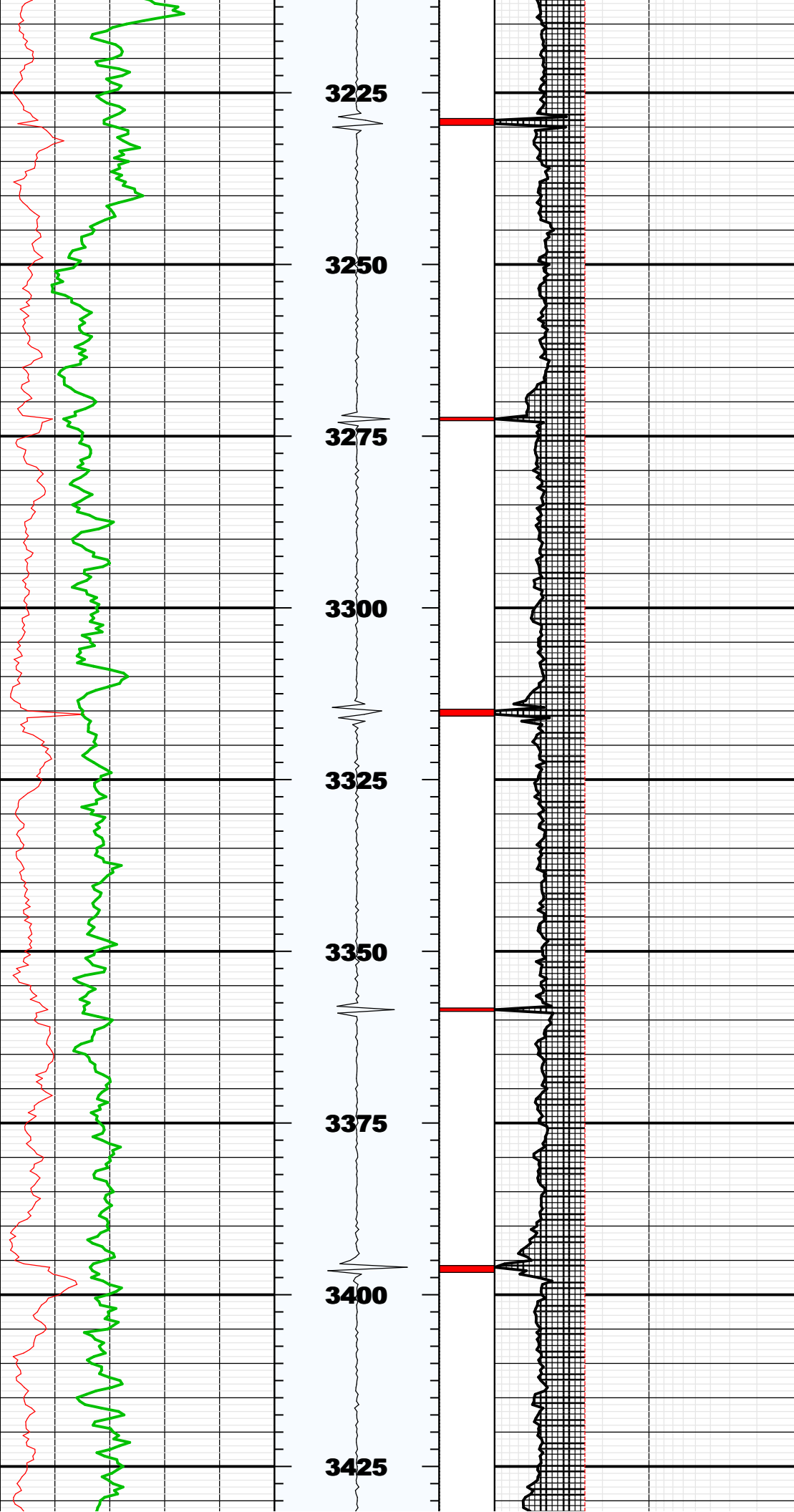


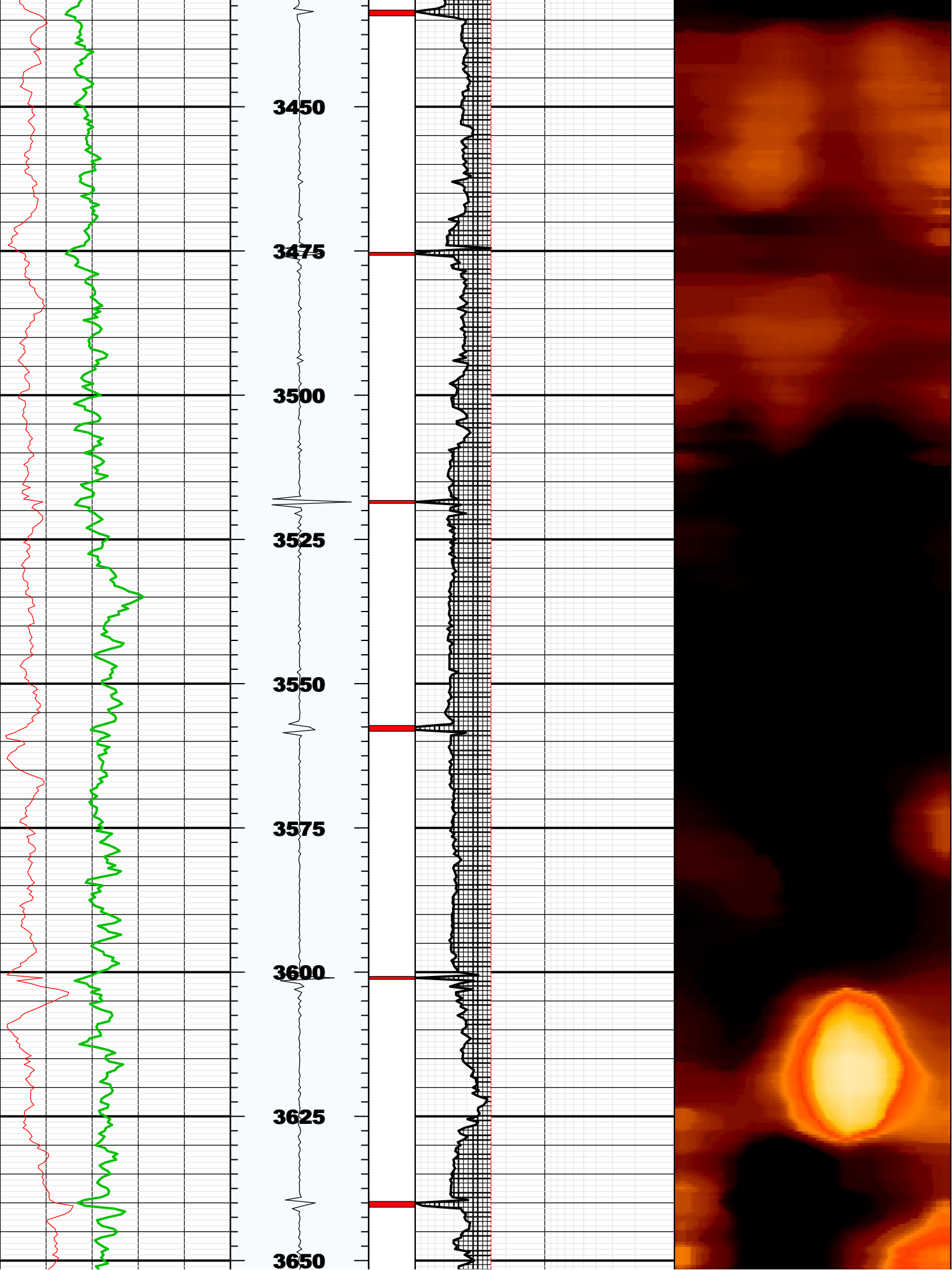


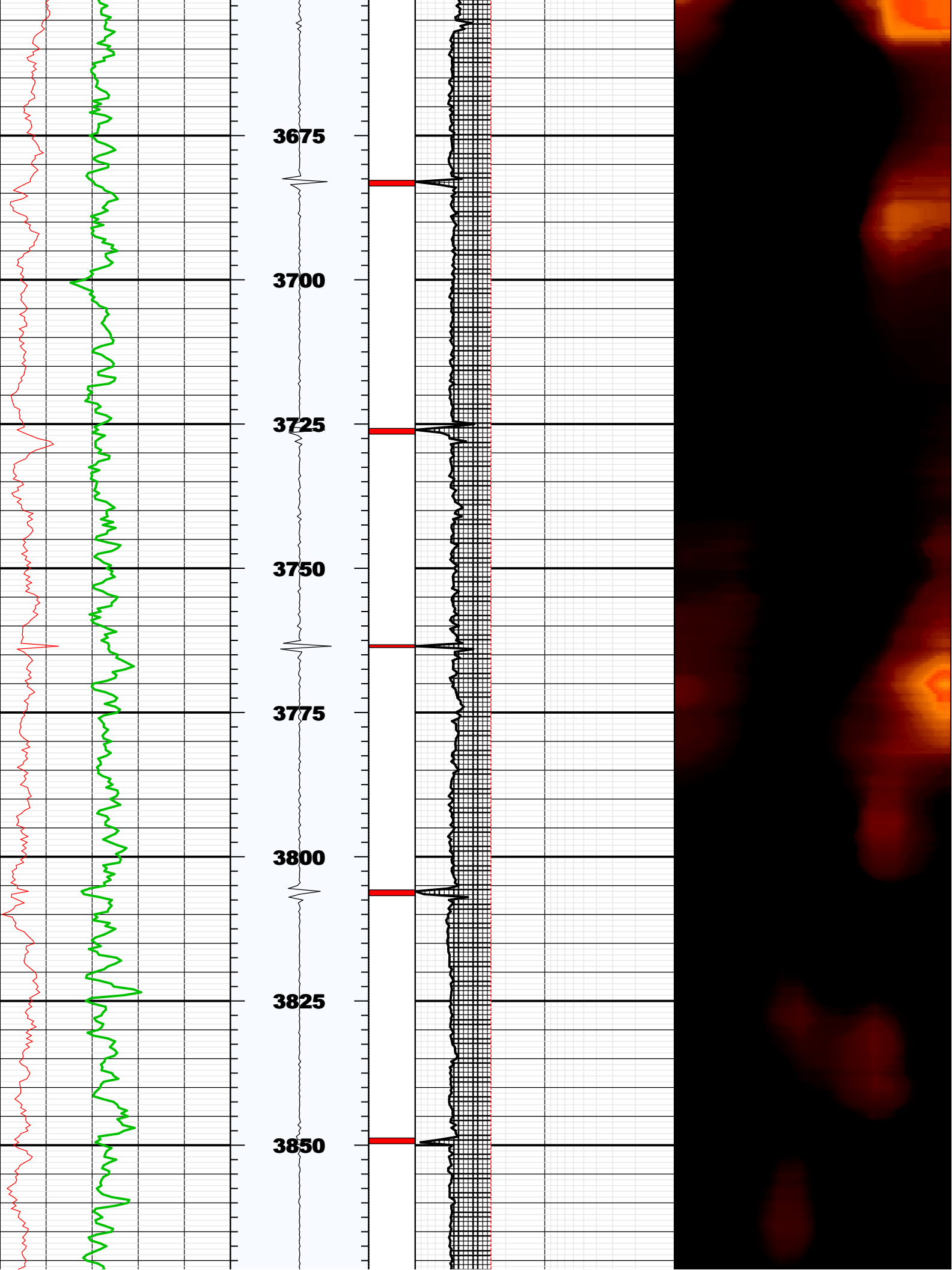


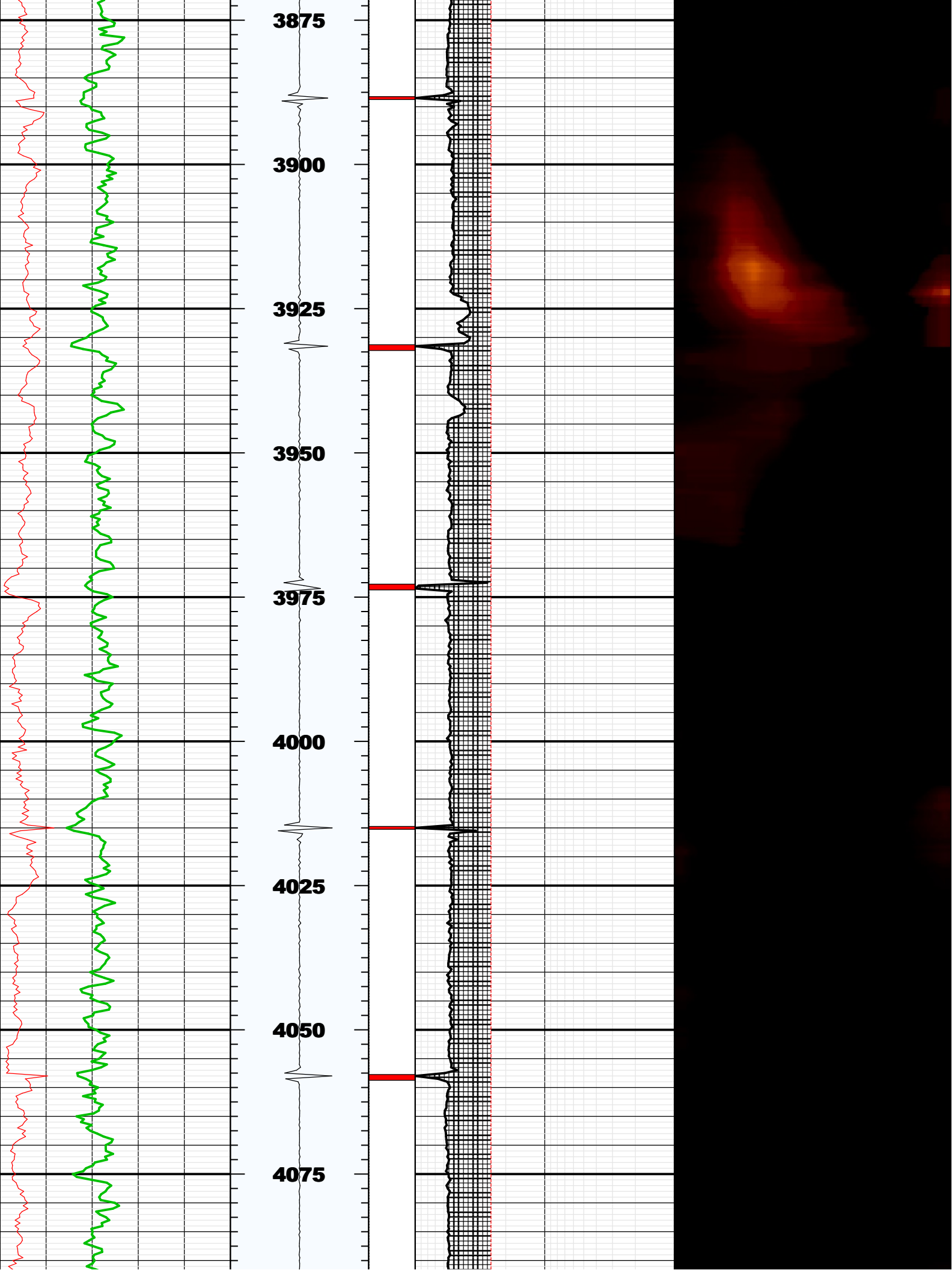


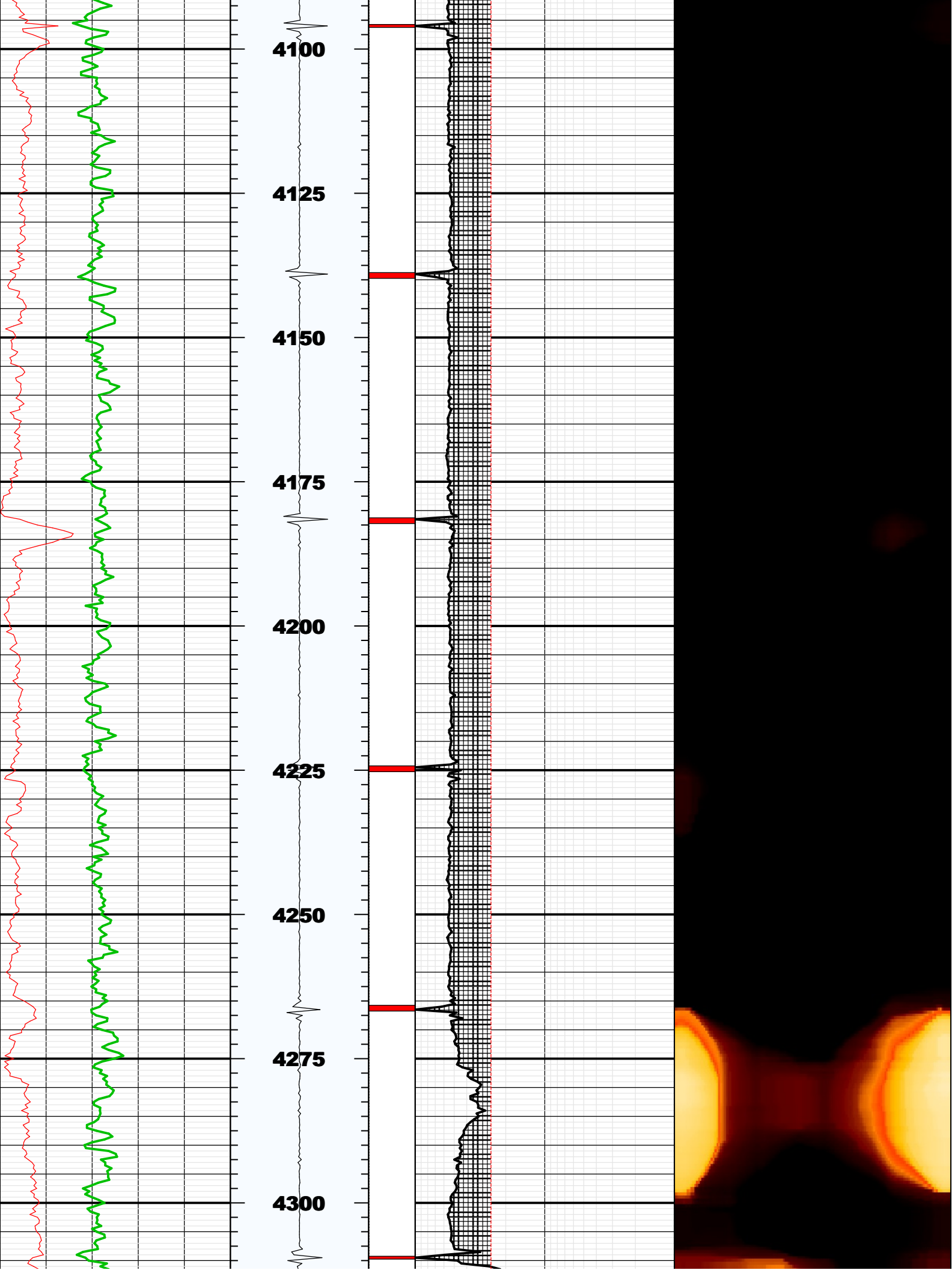


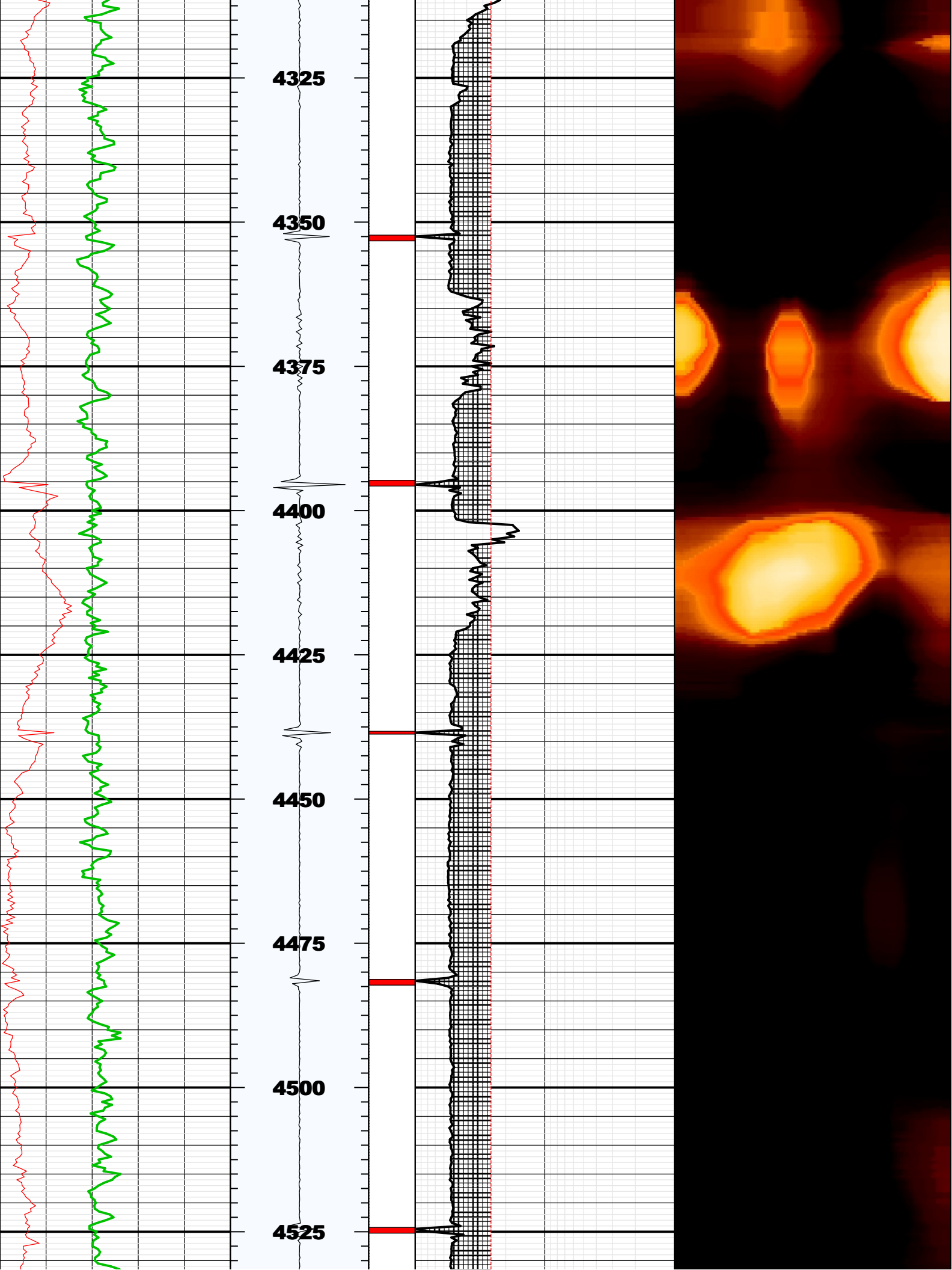


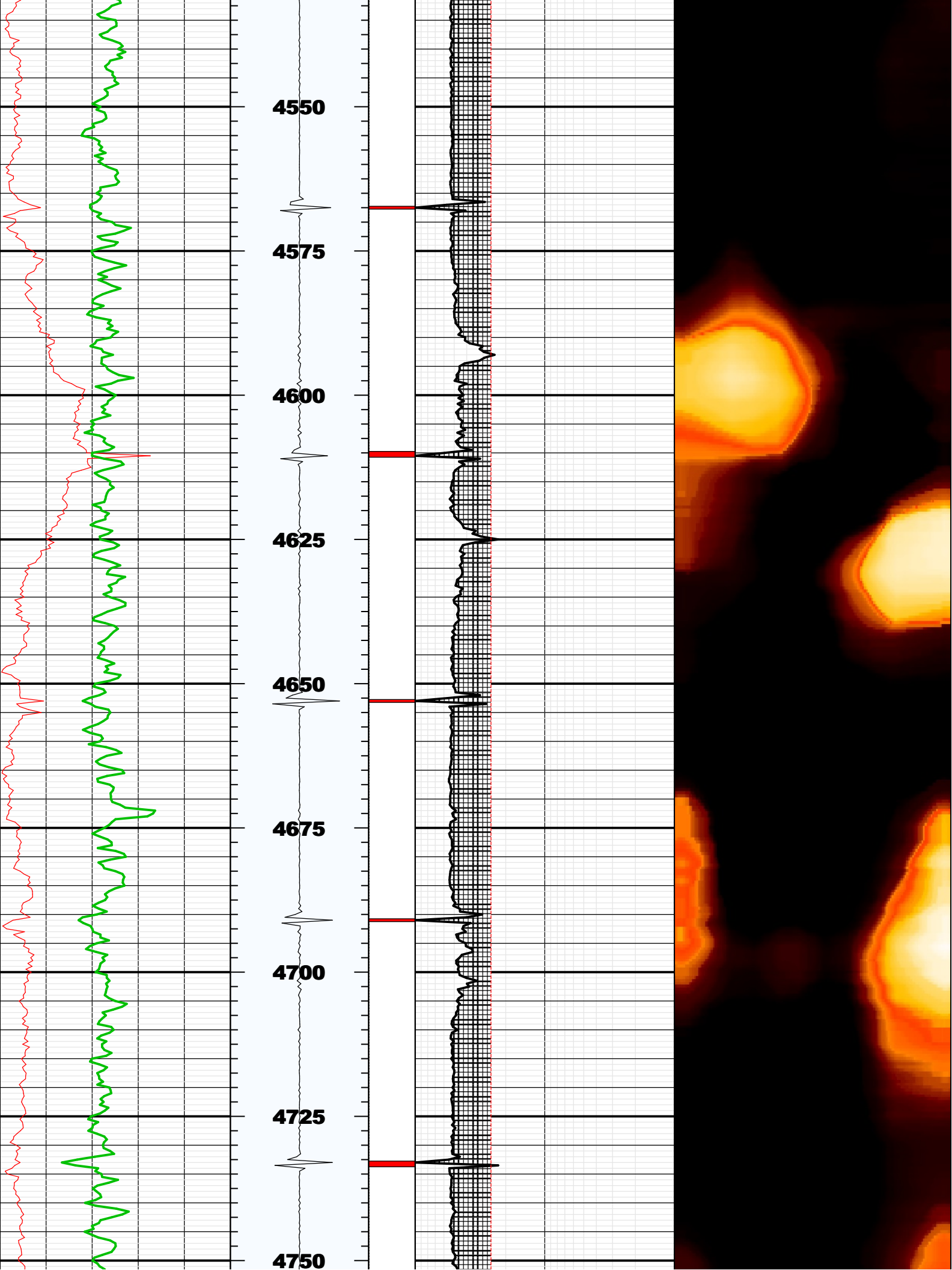


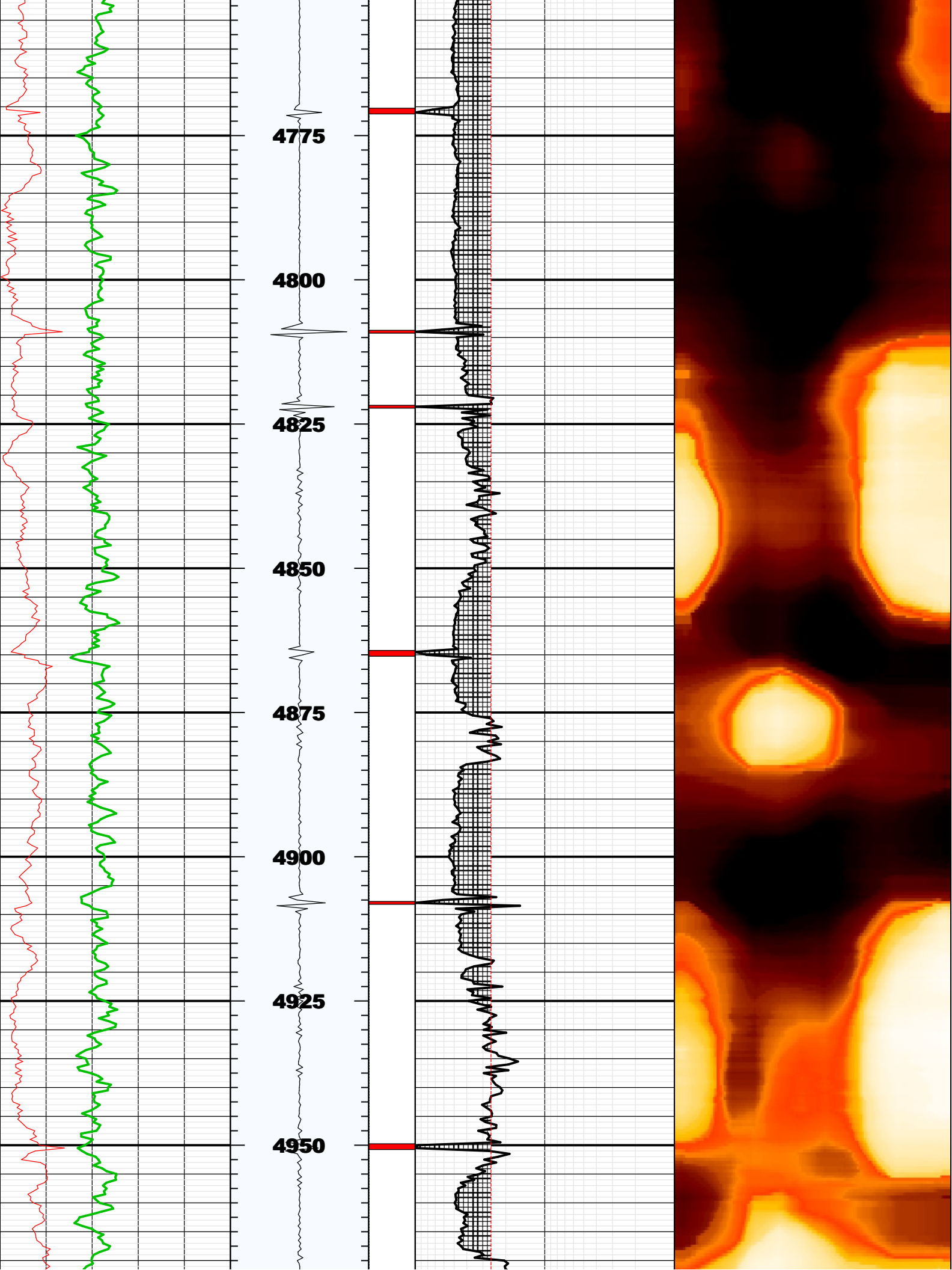


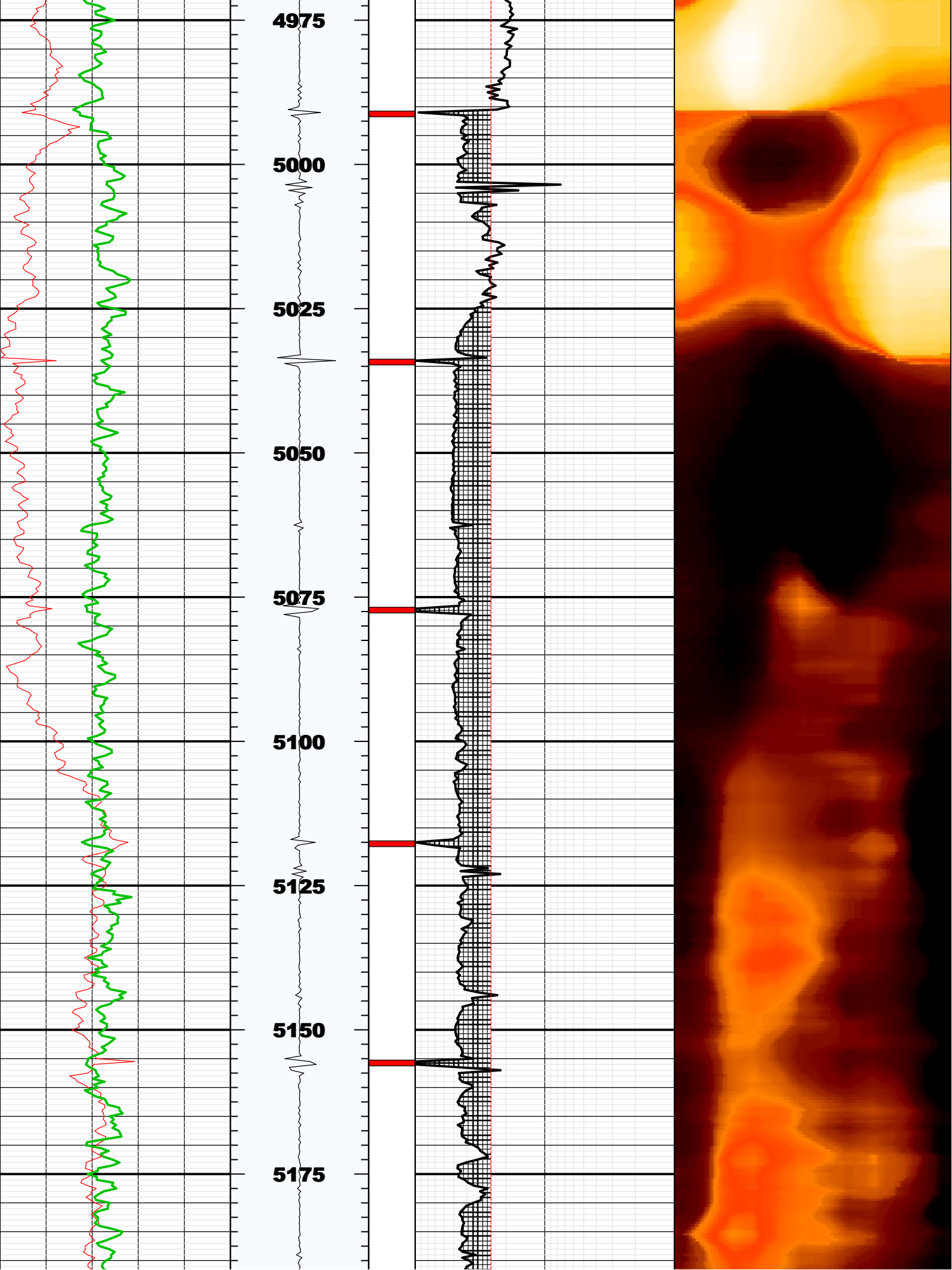


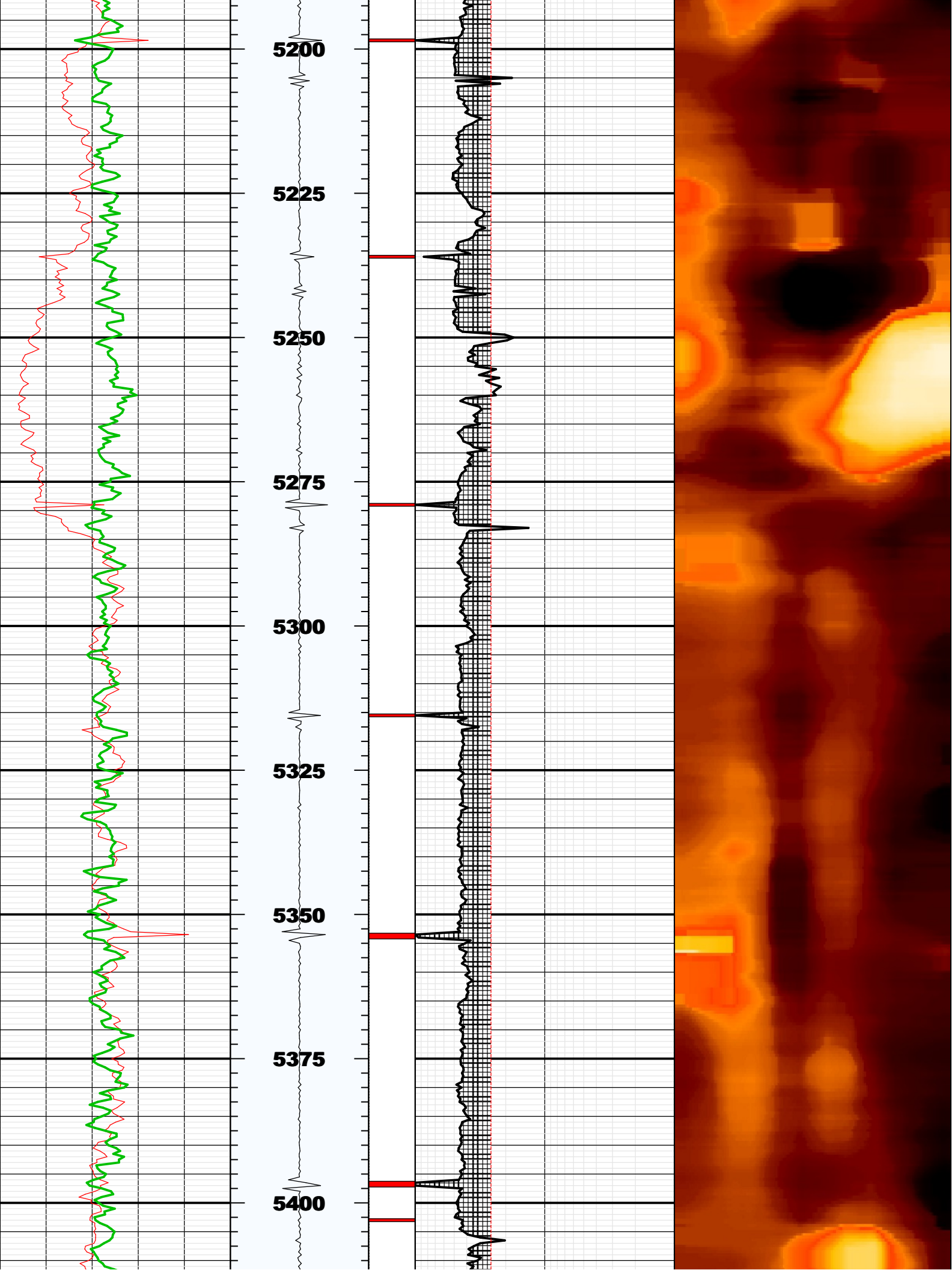


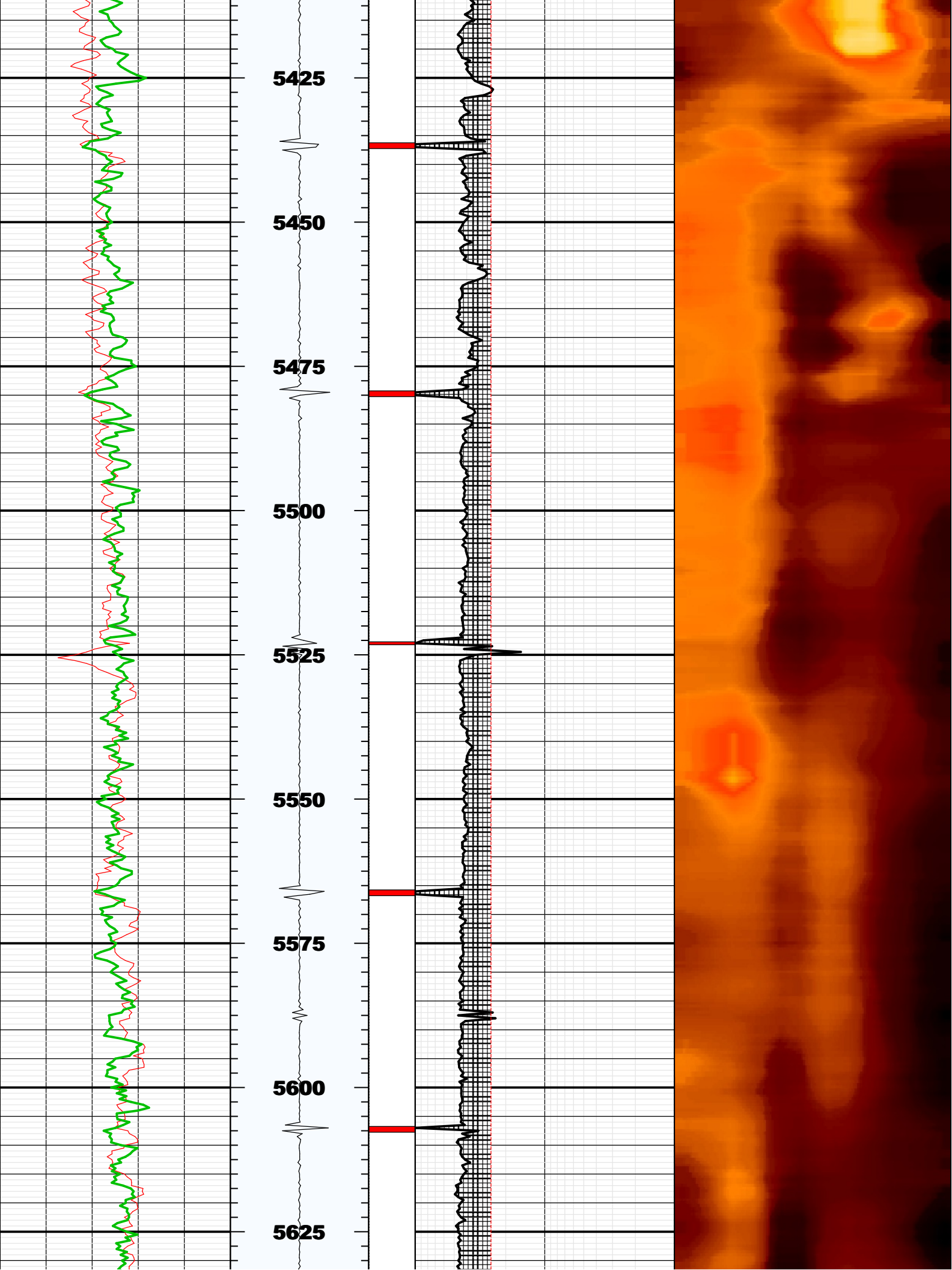


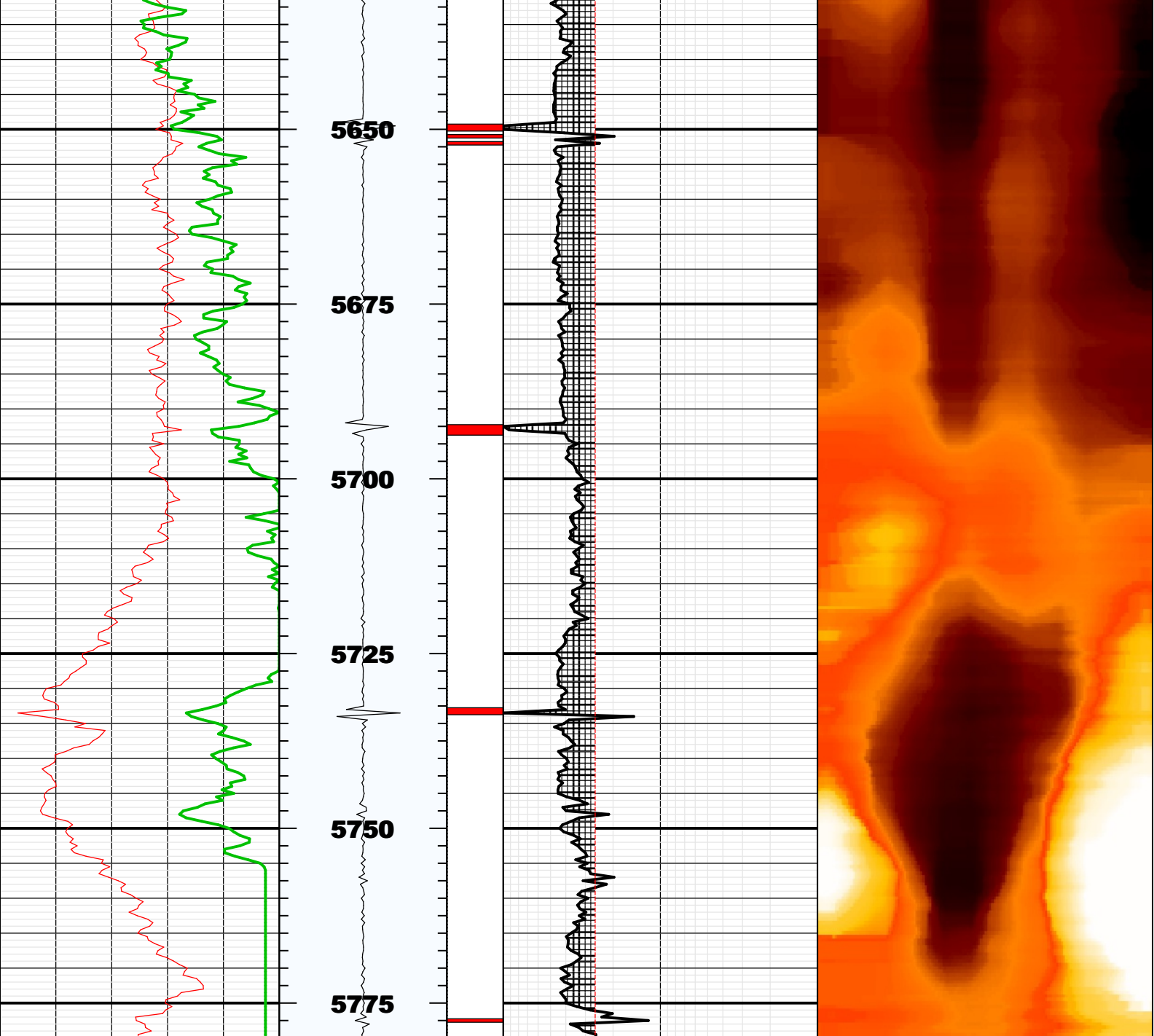








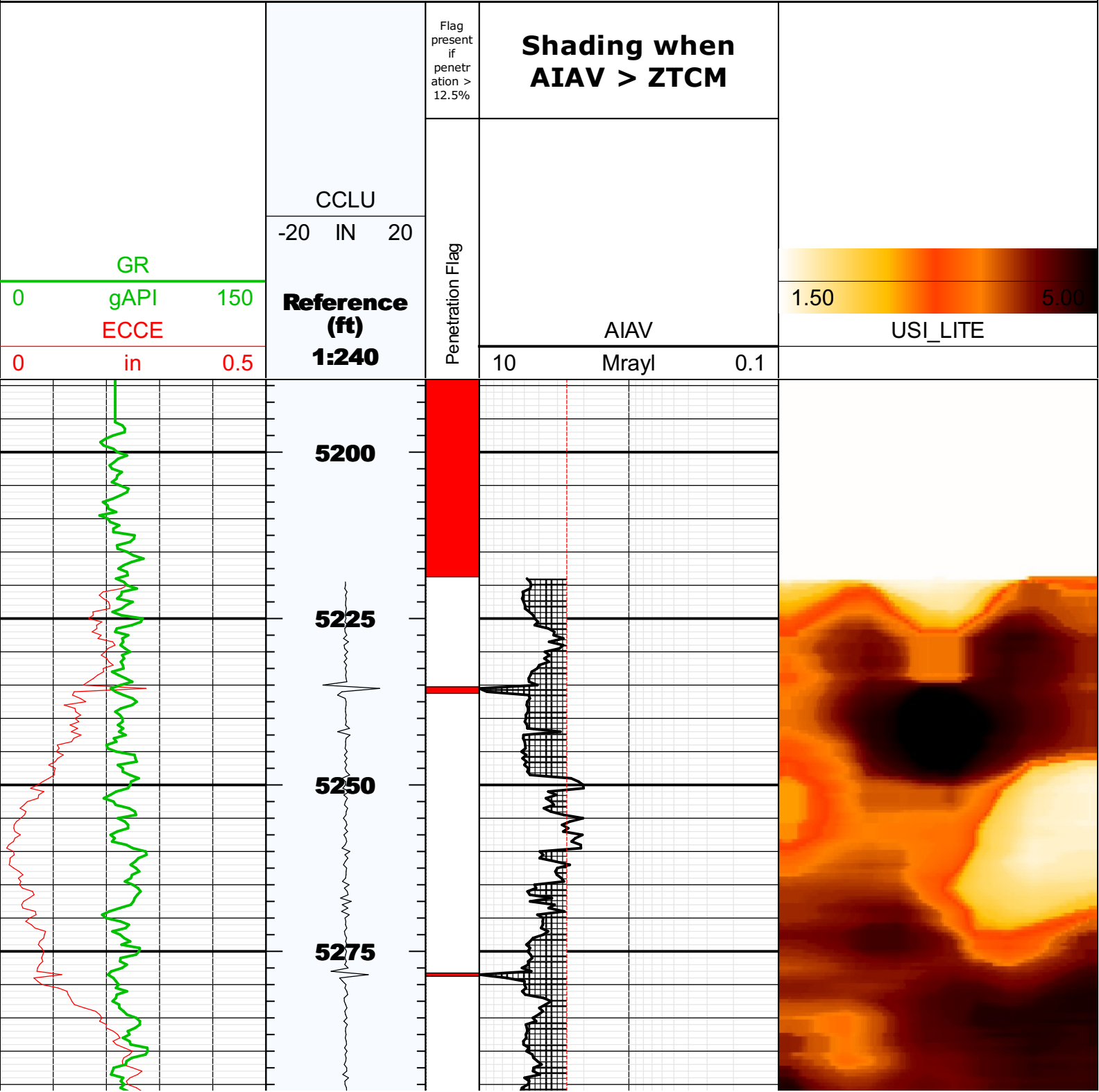


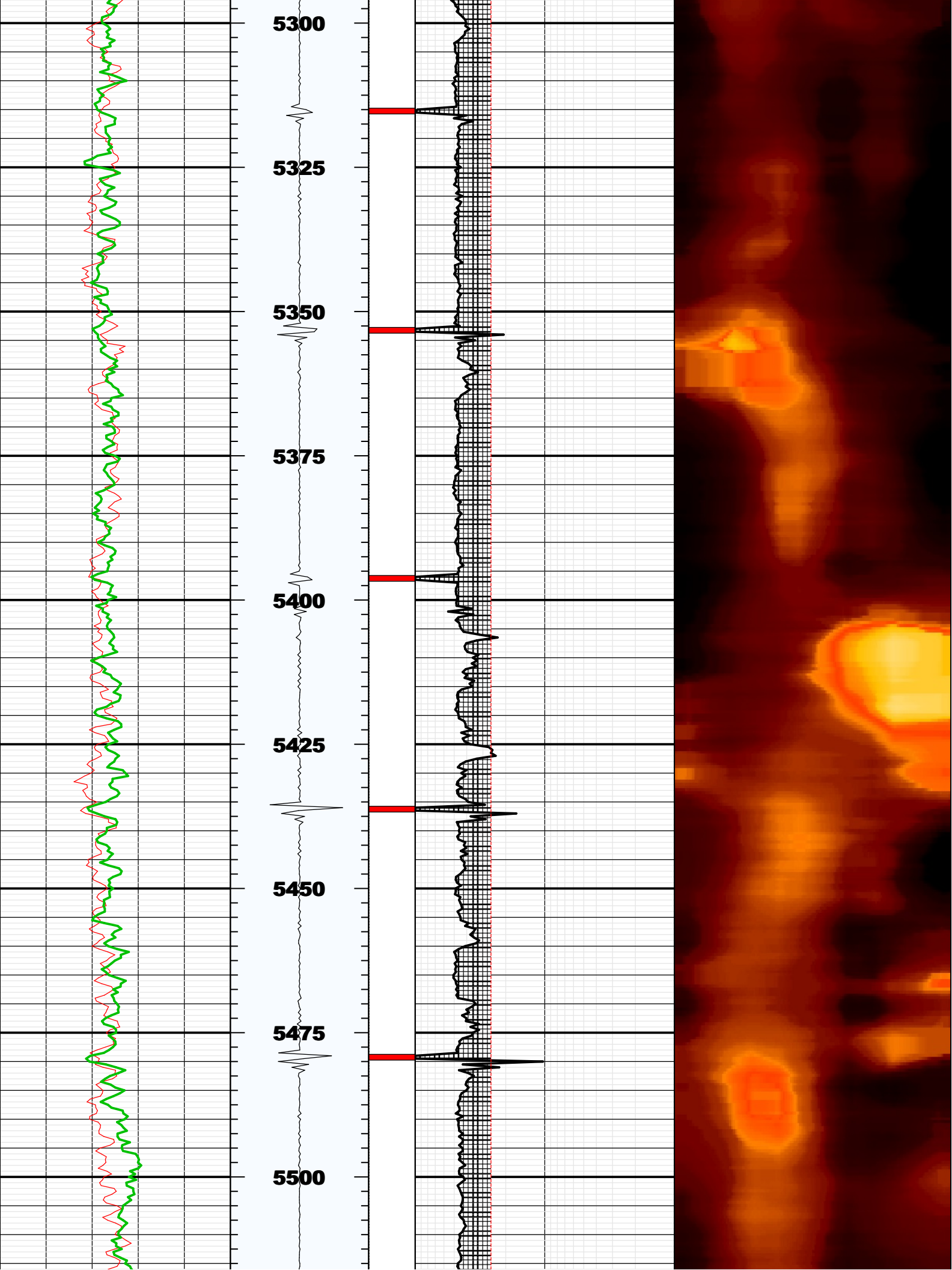


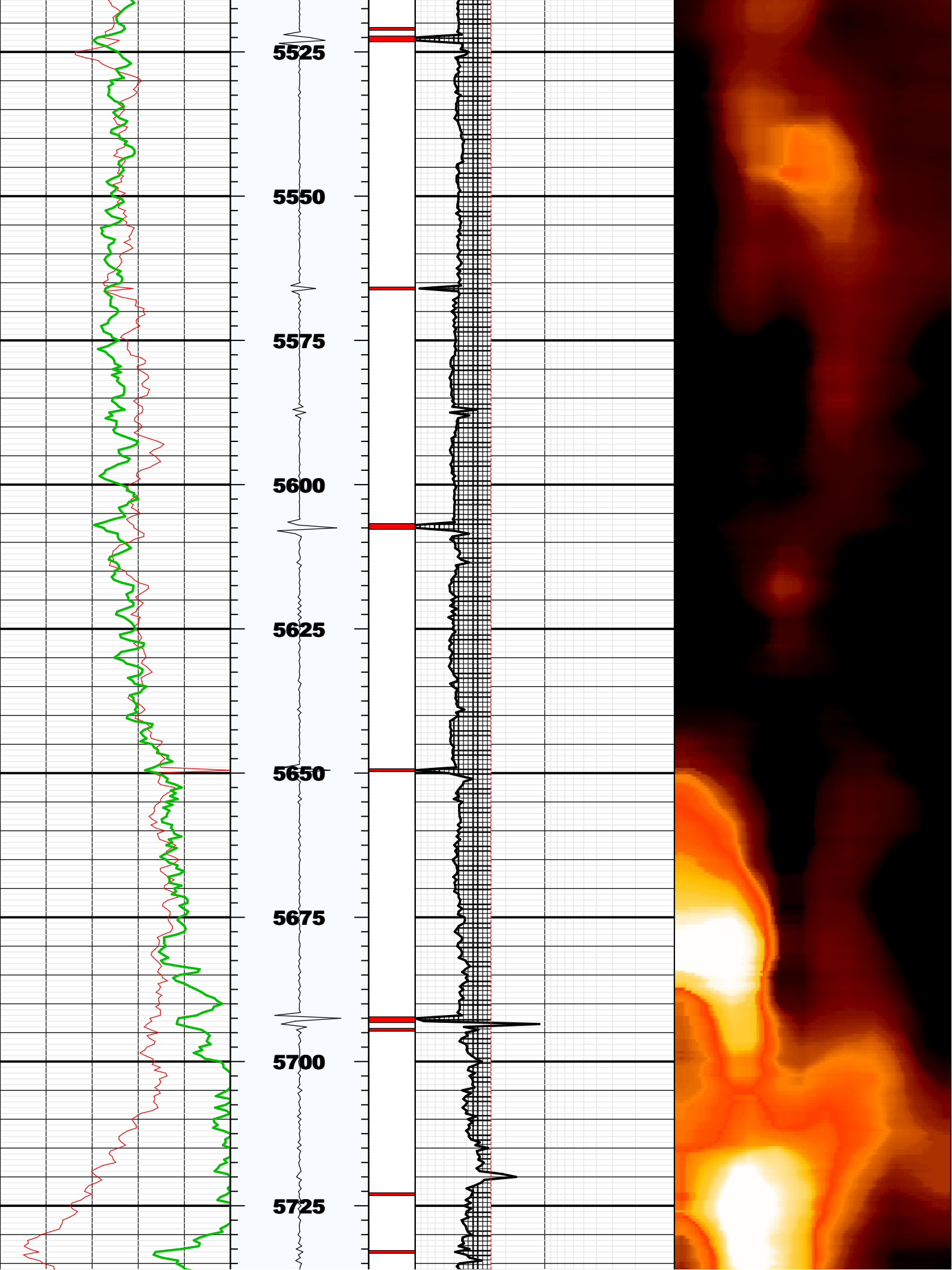
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	206.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	70	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	38.40100	US	Window Begin Time
WINE	78.40100	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

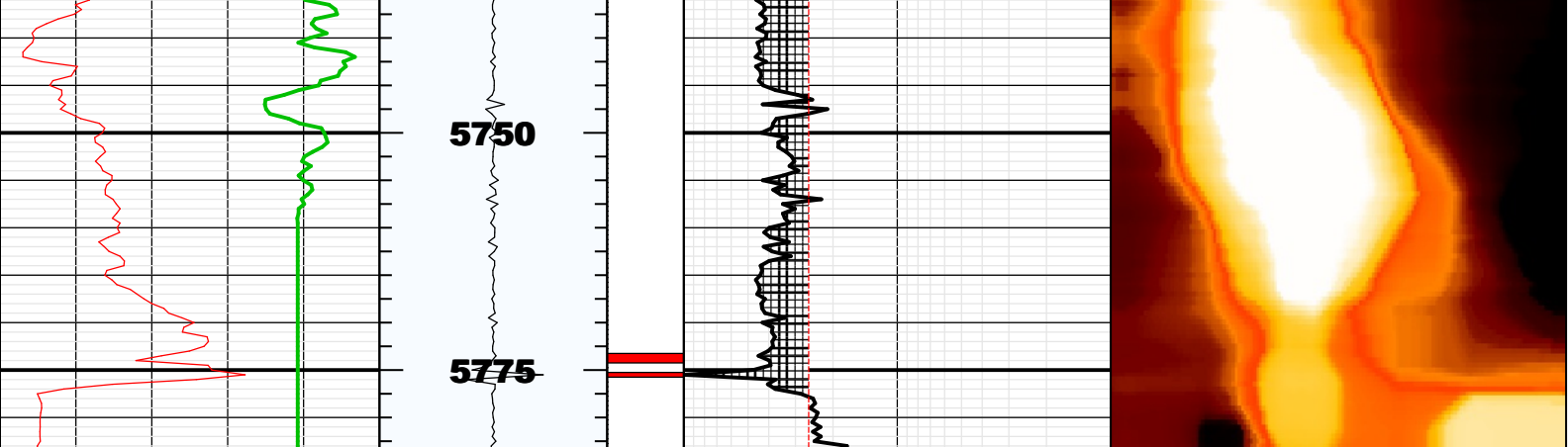
Repeat Pass

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Fluid Properties Used for Main Pass

