

Company: Noble Energy Inc

Well: Fiscus Federal LD15-77-1HN
Field: Wildcat
County: Weld State: Colorado

USI-LITE (2500 psi)									
County: Weld									
Field: Wildcat									
Location: NENW Sec.15 T9N R58W									
Well: Fiscus Federal LD15-77-1HN									
Company: Noble Energy Inc									
Logging Date									
Run Number									
Depth Driller									
Schlumberger Depth									
Bottom Log Interval									
Top Log Interval									
Casing Fluid Level									
Salinity									
Density									
Fluid Level									
BIT/CASING/TUBING STRING									
Bit Size									
From									
To									
Casing Size									
Weight									
Grade									
From									
To									
Max Recorded Temp									
Logger on bottom (date)									
Location									
Recorded By									
Witnessed By									
Permanent Datum:									
Log Measured From:									
Drilling Measured From:									
GL									
KB									
KB									
API Serial No.									
05-123-37369									
Section									
15									
Township									
9N									
Range									
58W									
Elev: K.B.									
4717.0 F									
G.L.									
4701.0 F									
D.F.									
4716.0 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: Calibration Date: Calibrator Serial Number: Number Of Calibration Points: Calibration RMS: Calibration Peak Error:	Serial Number: Length: 17000.00000

DISCLAIMER

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13.6 ppg single slurry cement

Repeat pass is done with 0 psi

Main pass is done under 2500 psi

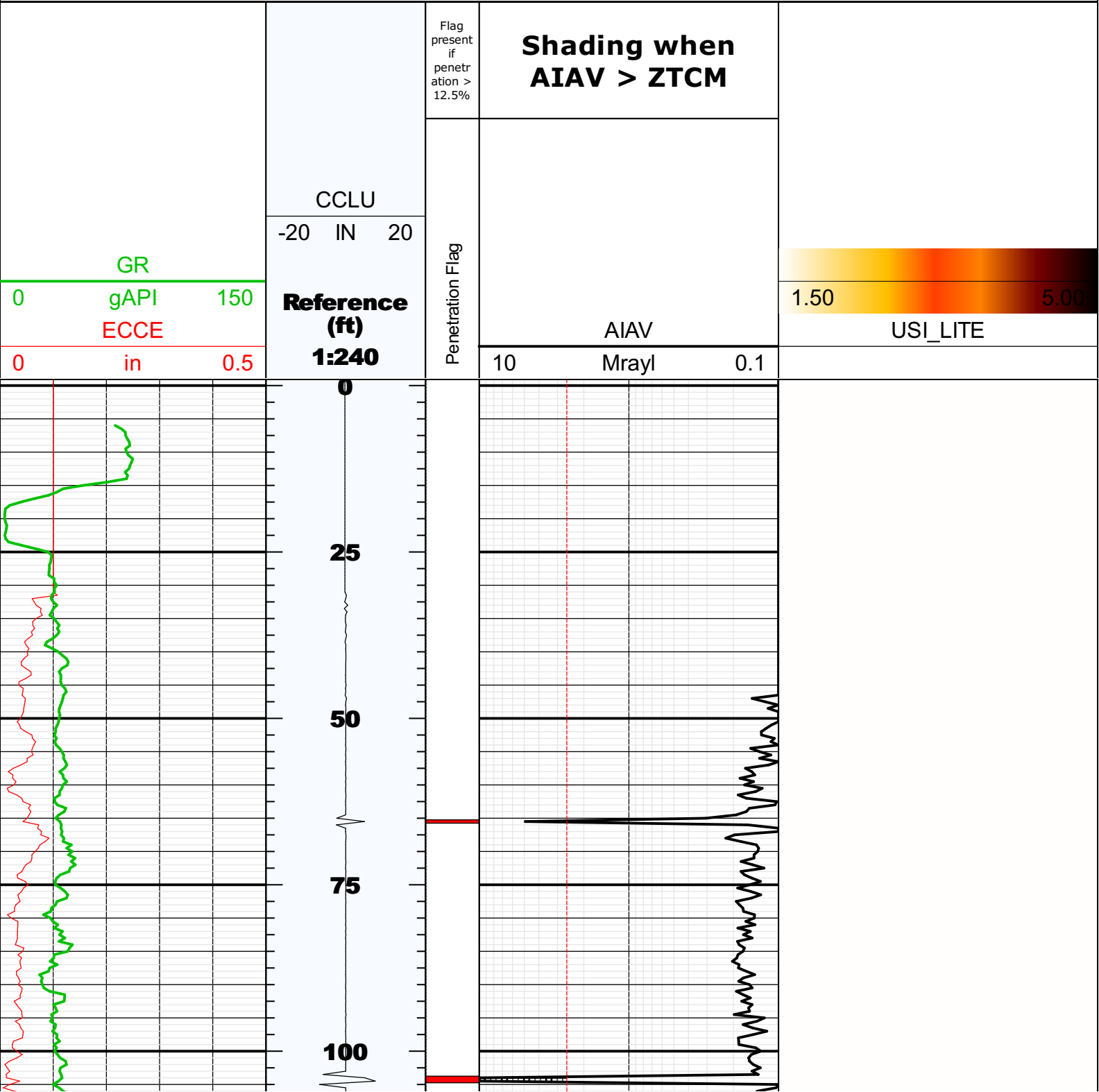
Top of Cement is at 950'.

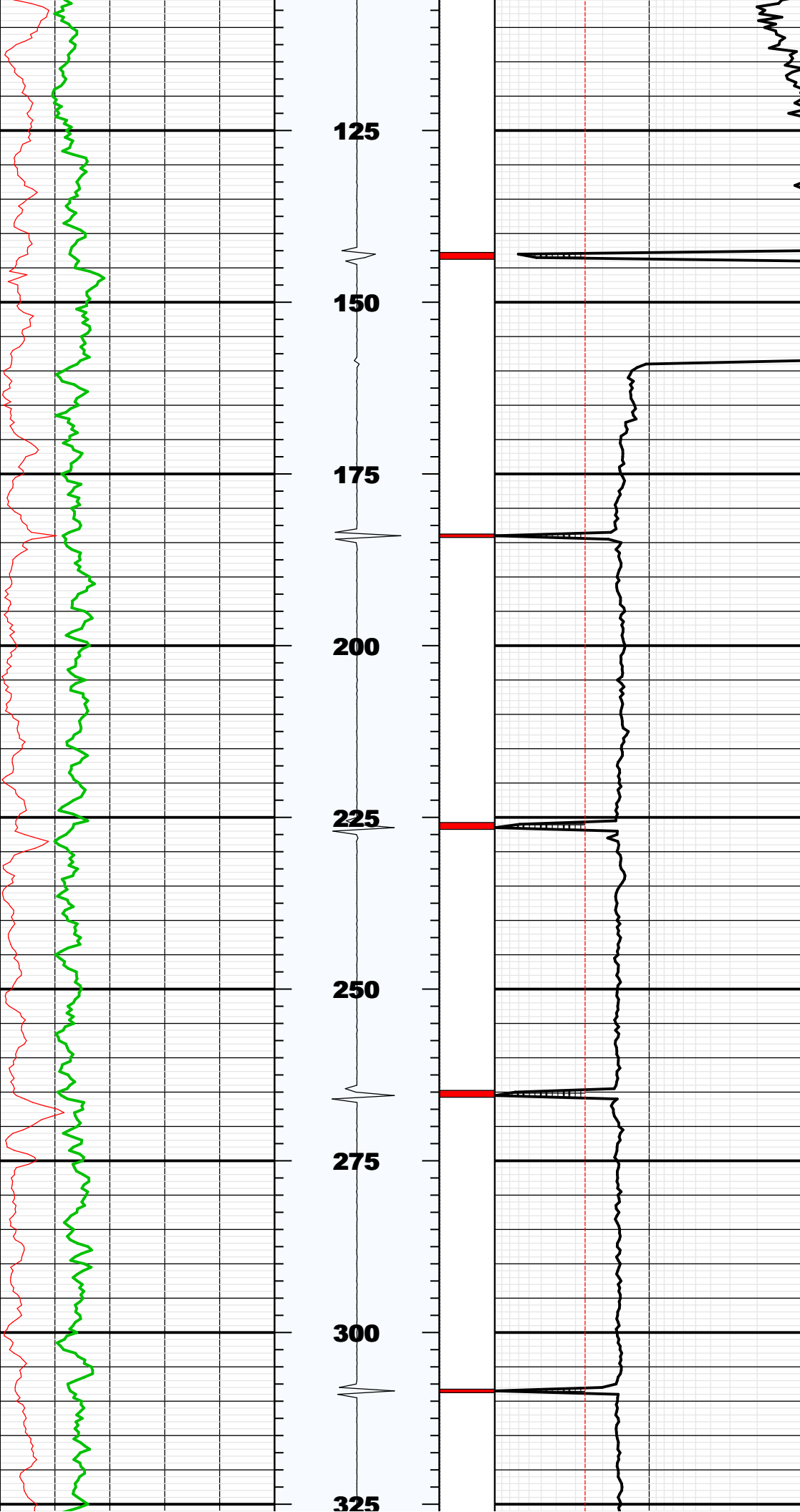
Temperature was 221 degF measured at depth.

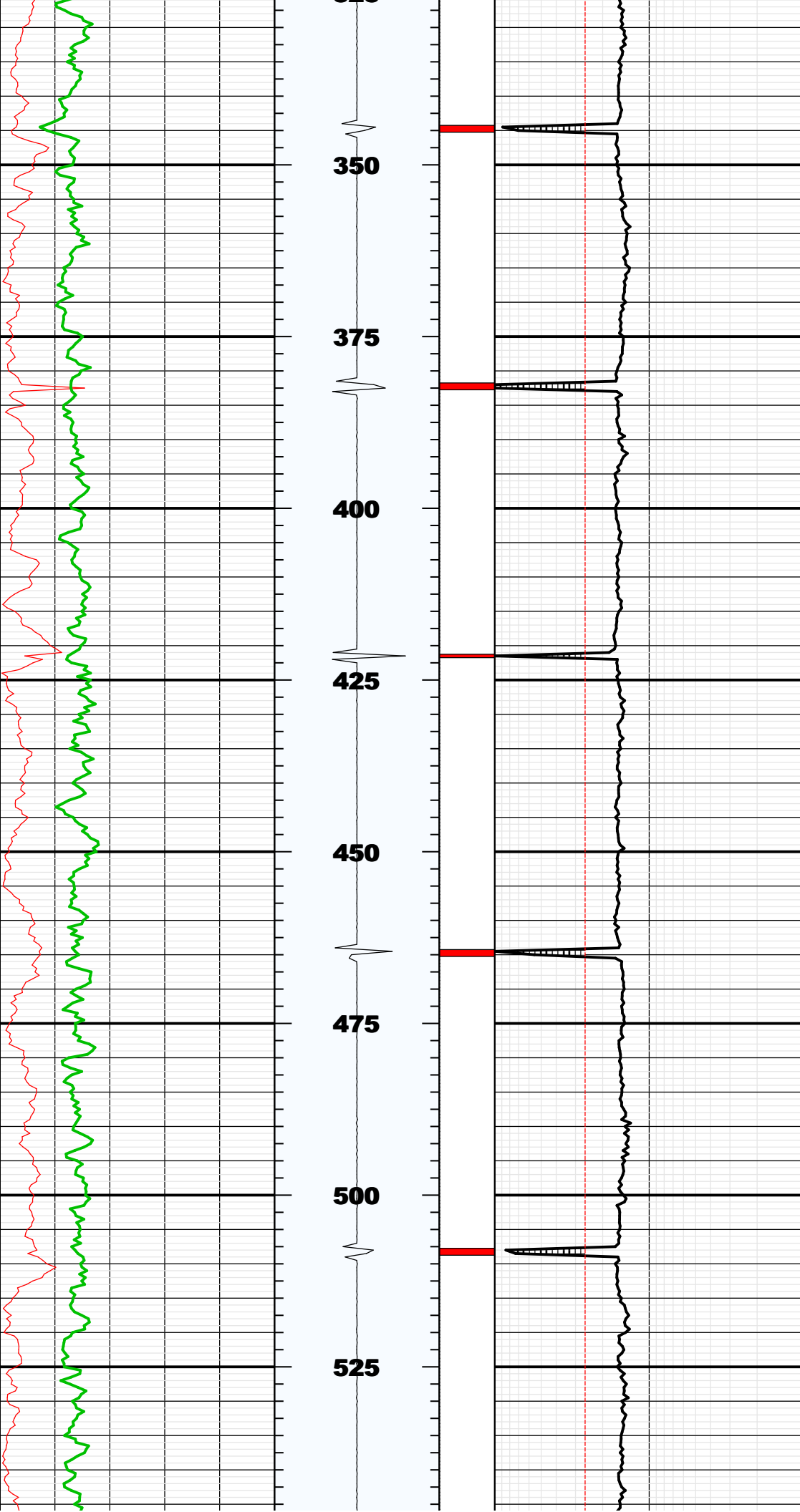
Log started 30 ft above top of the liner (5891 ft)

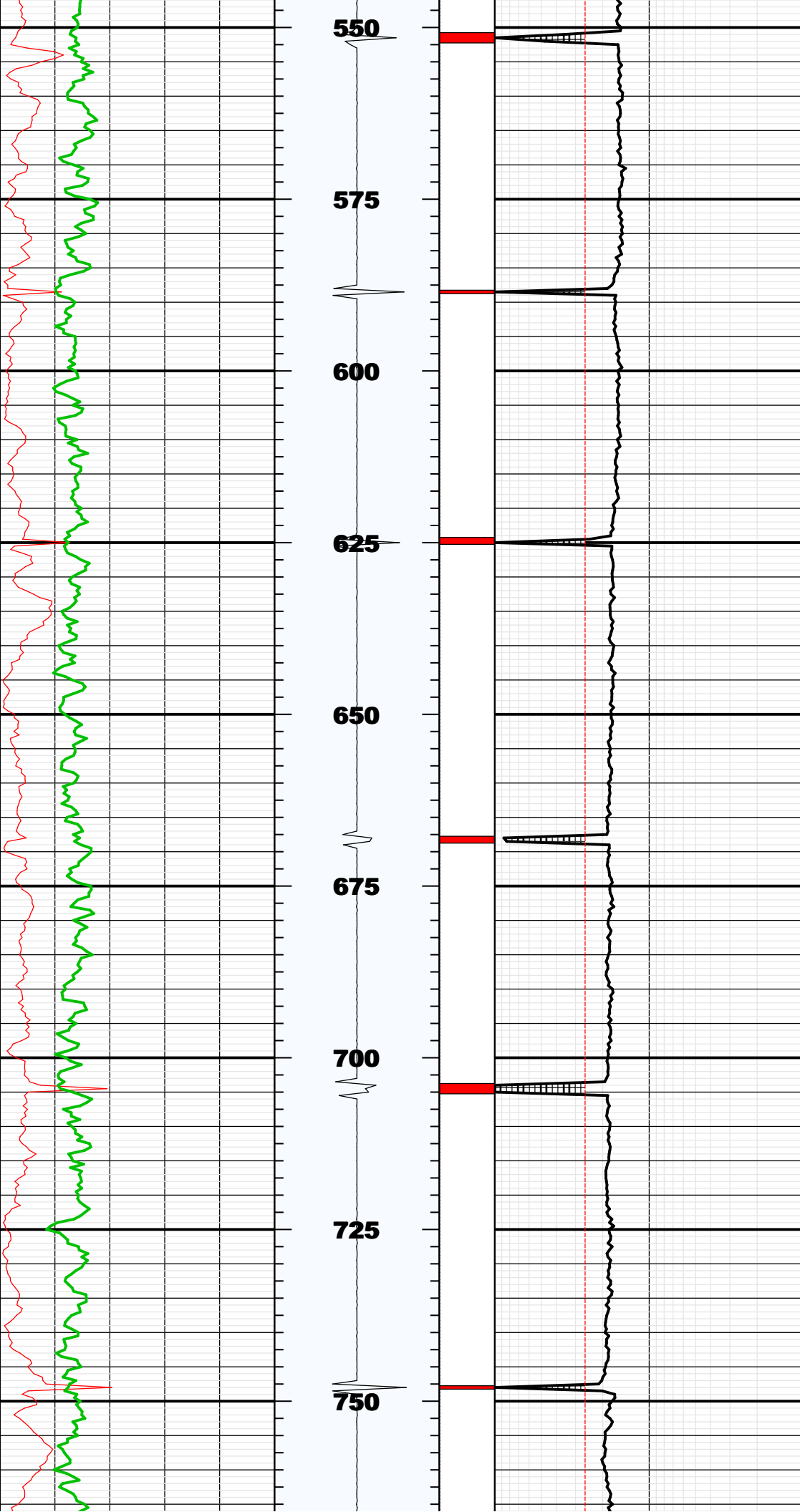
Main Pass

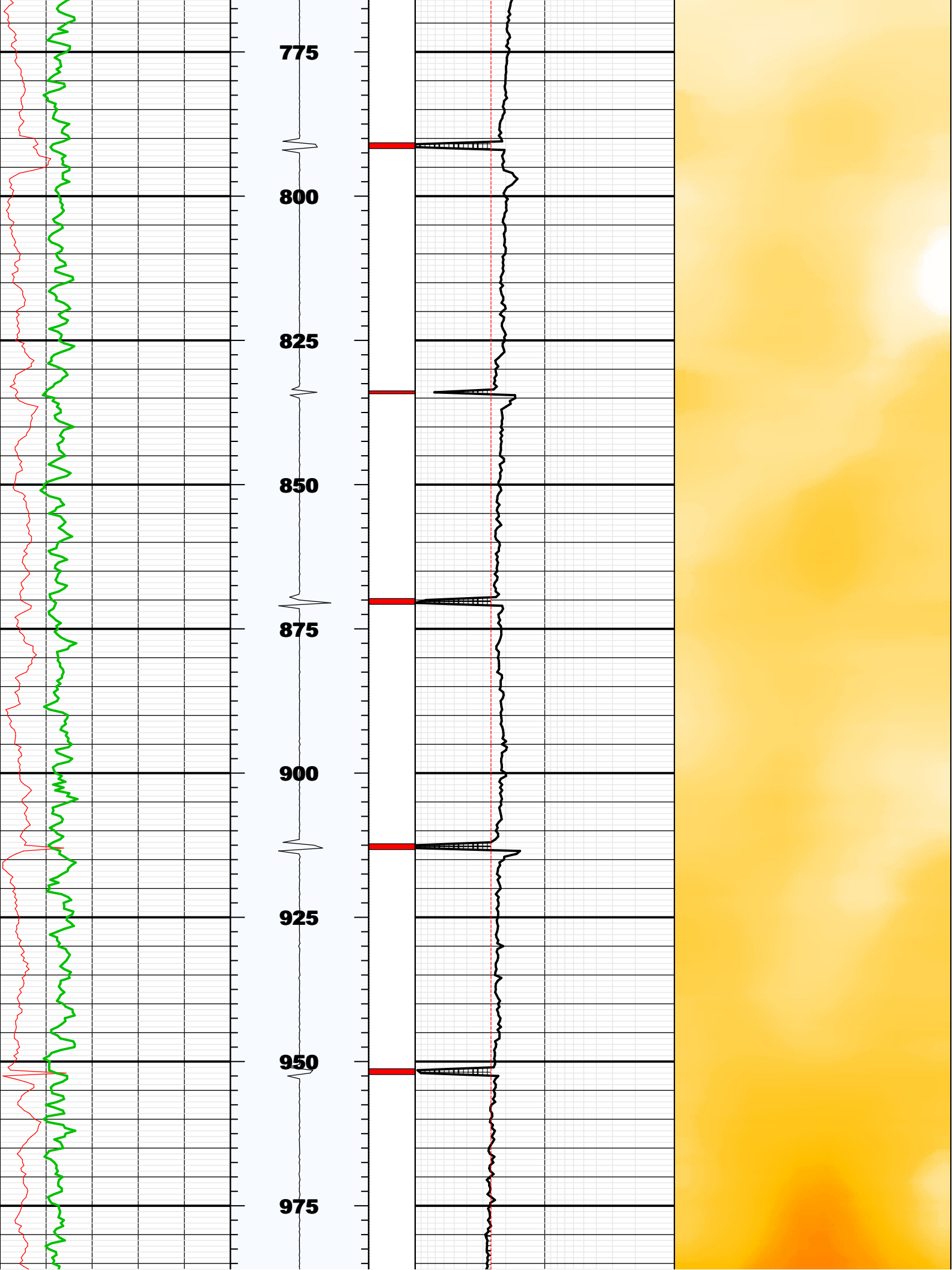
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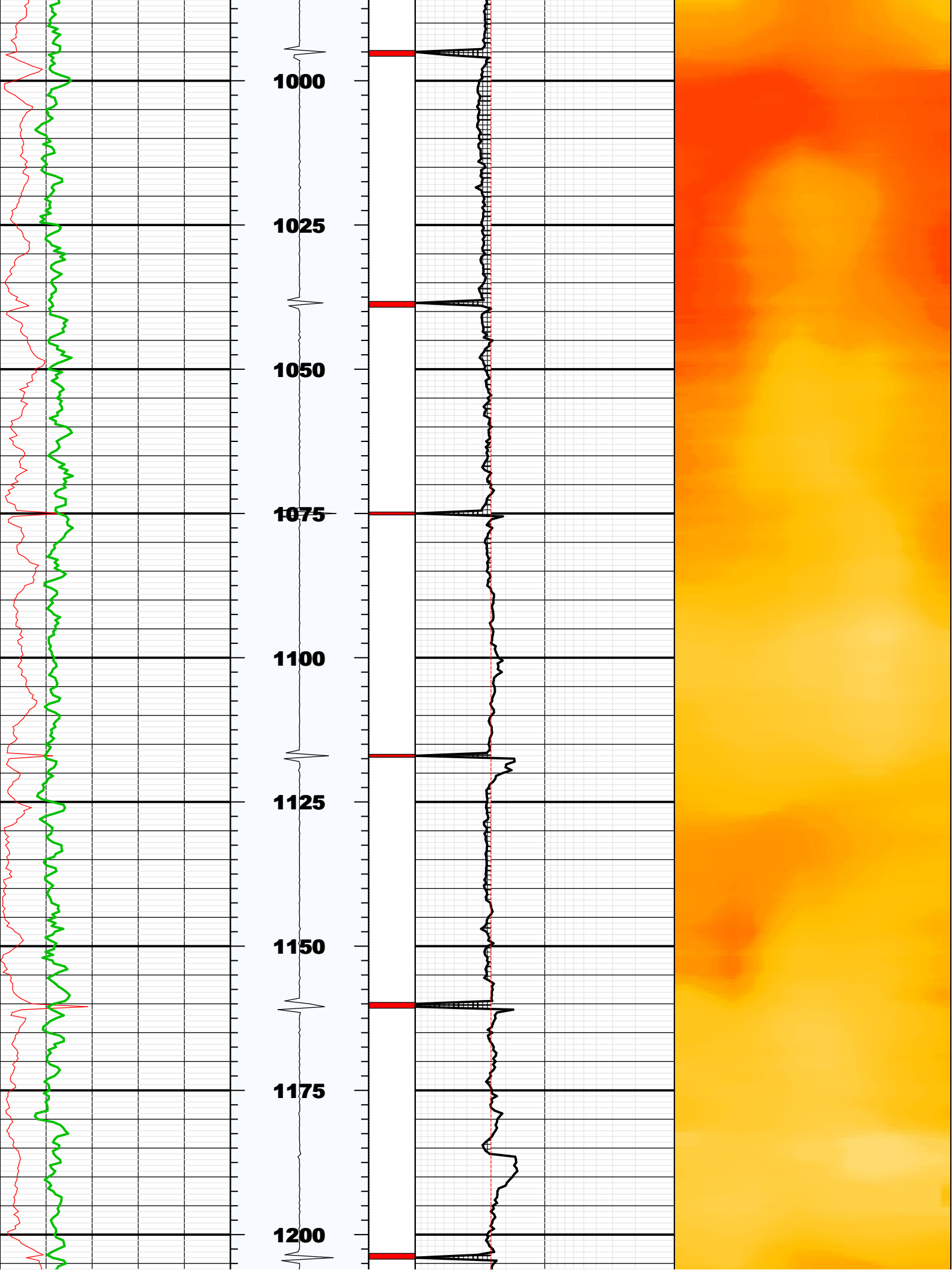


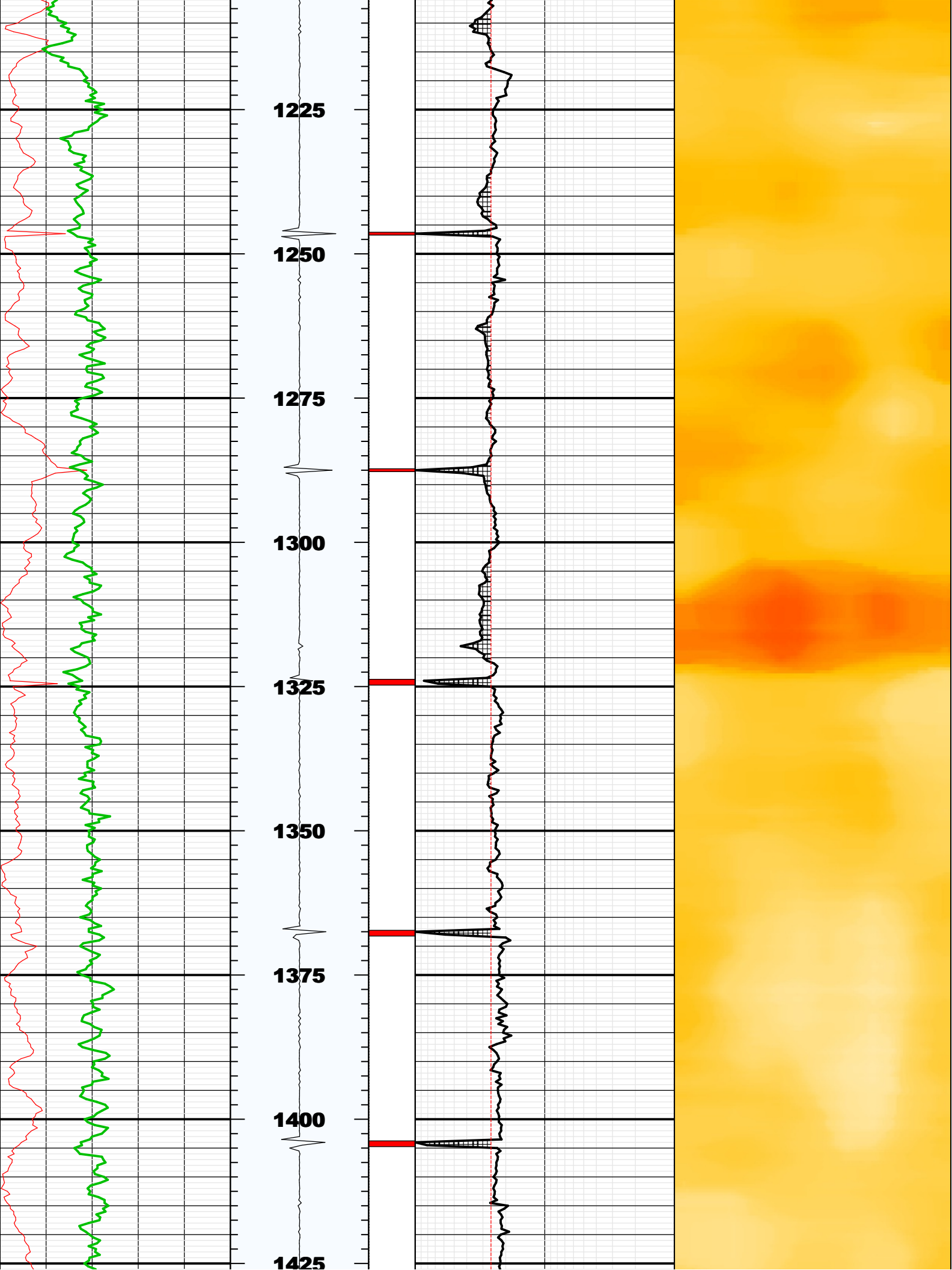


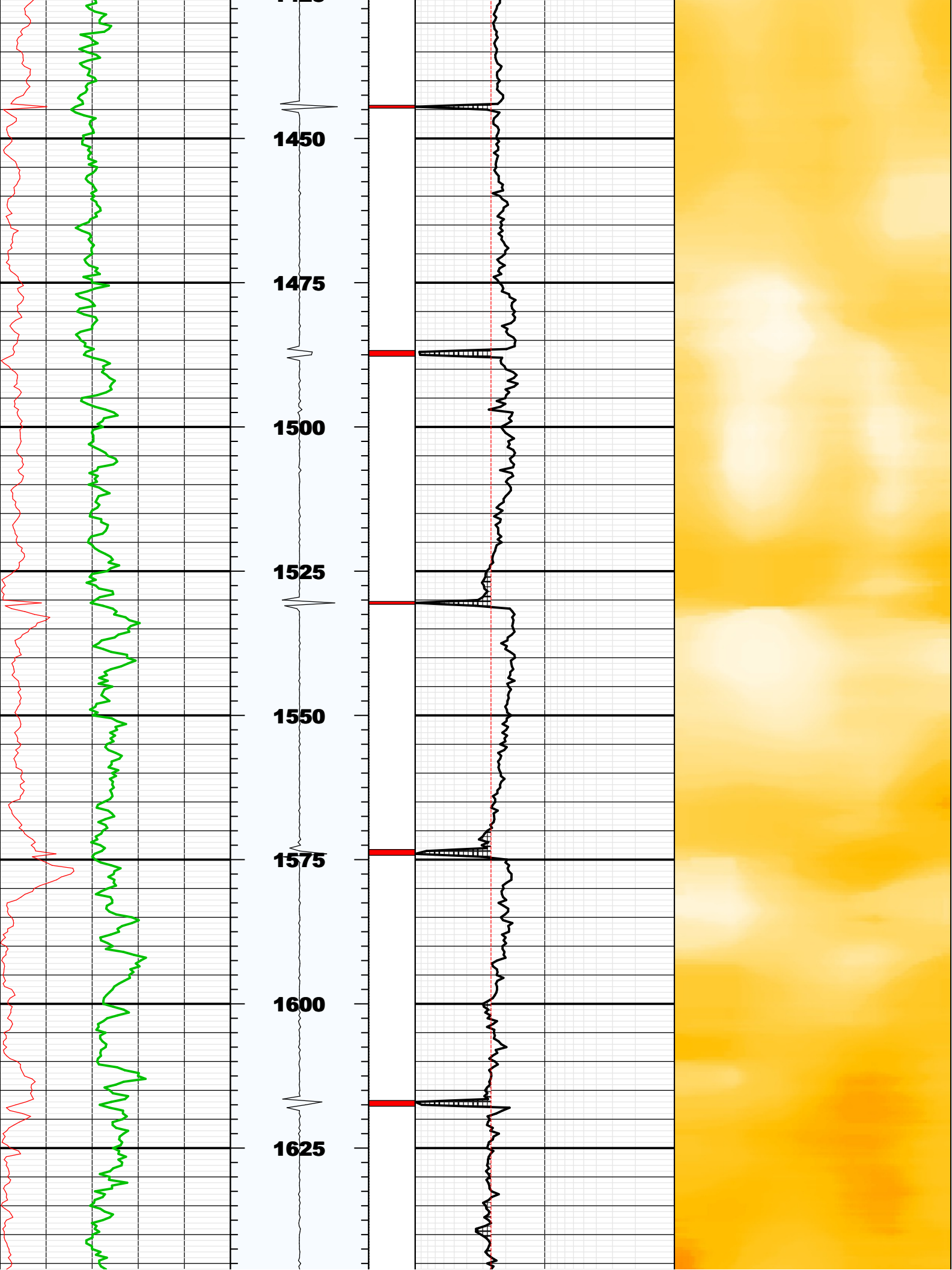


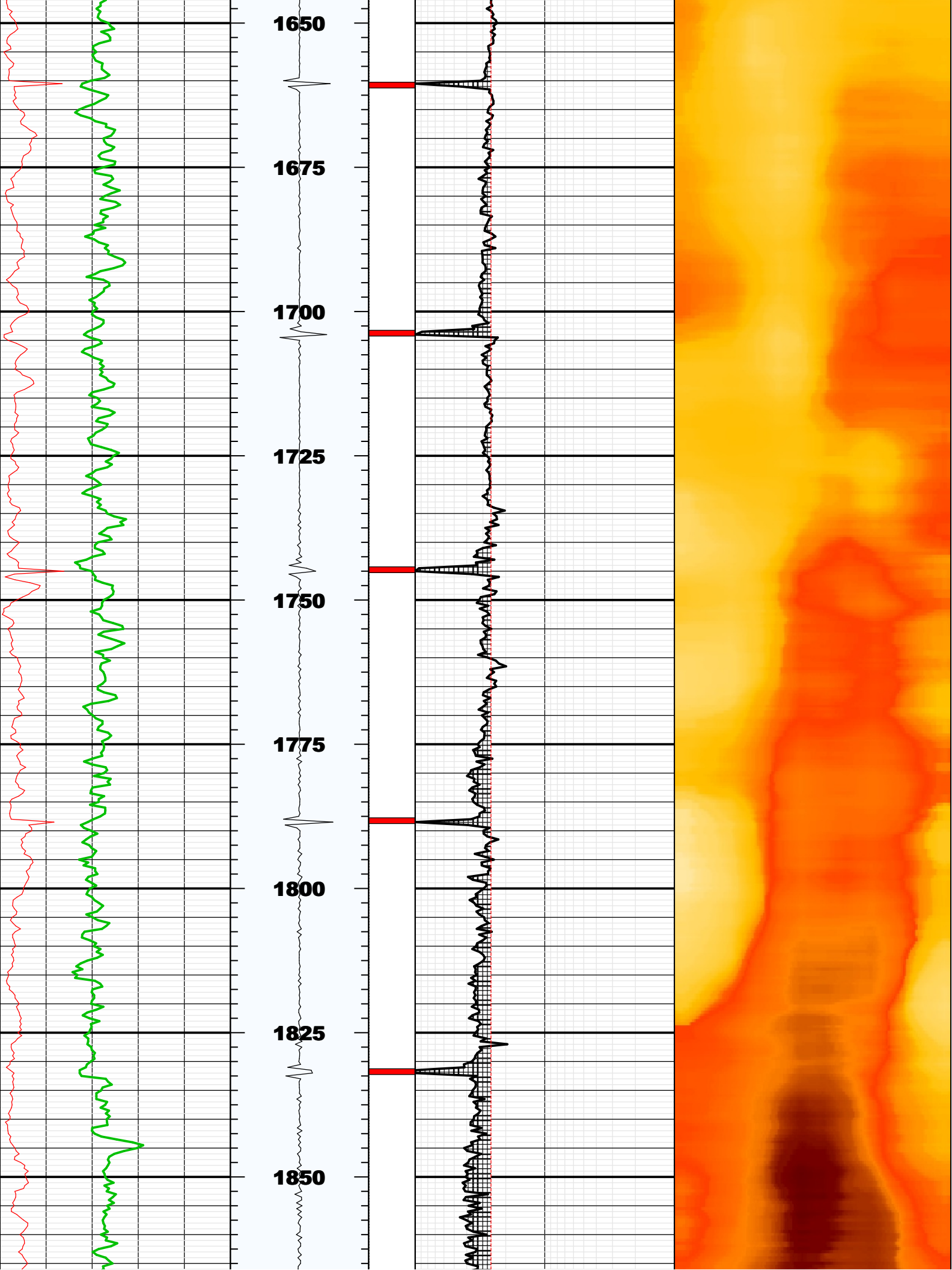


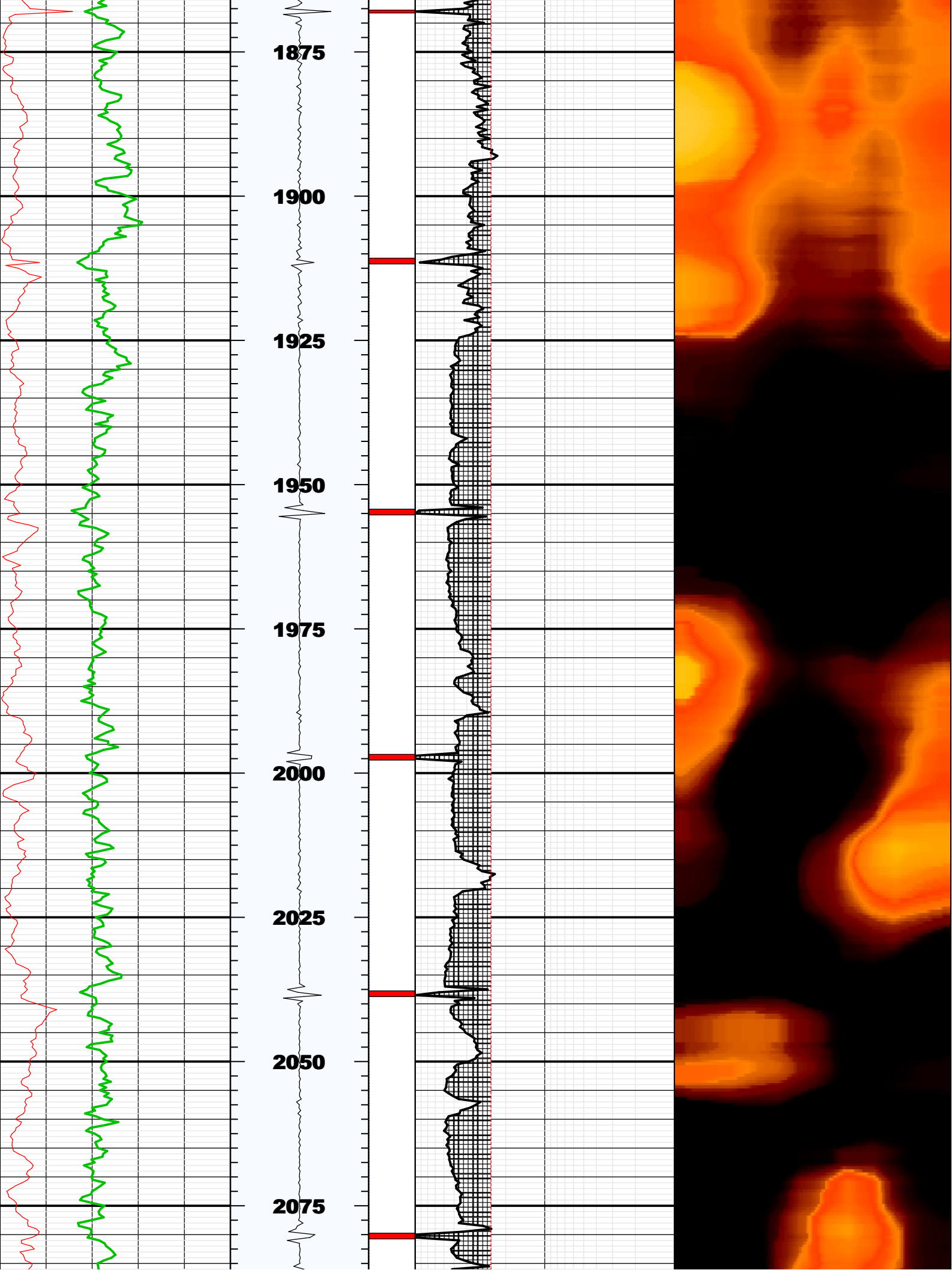


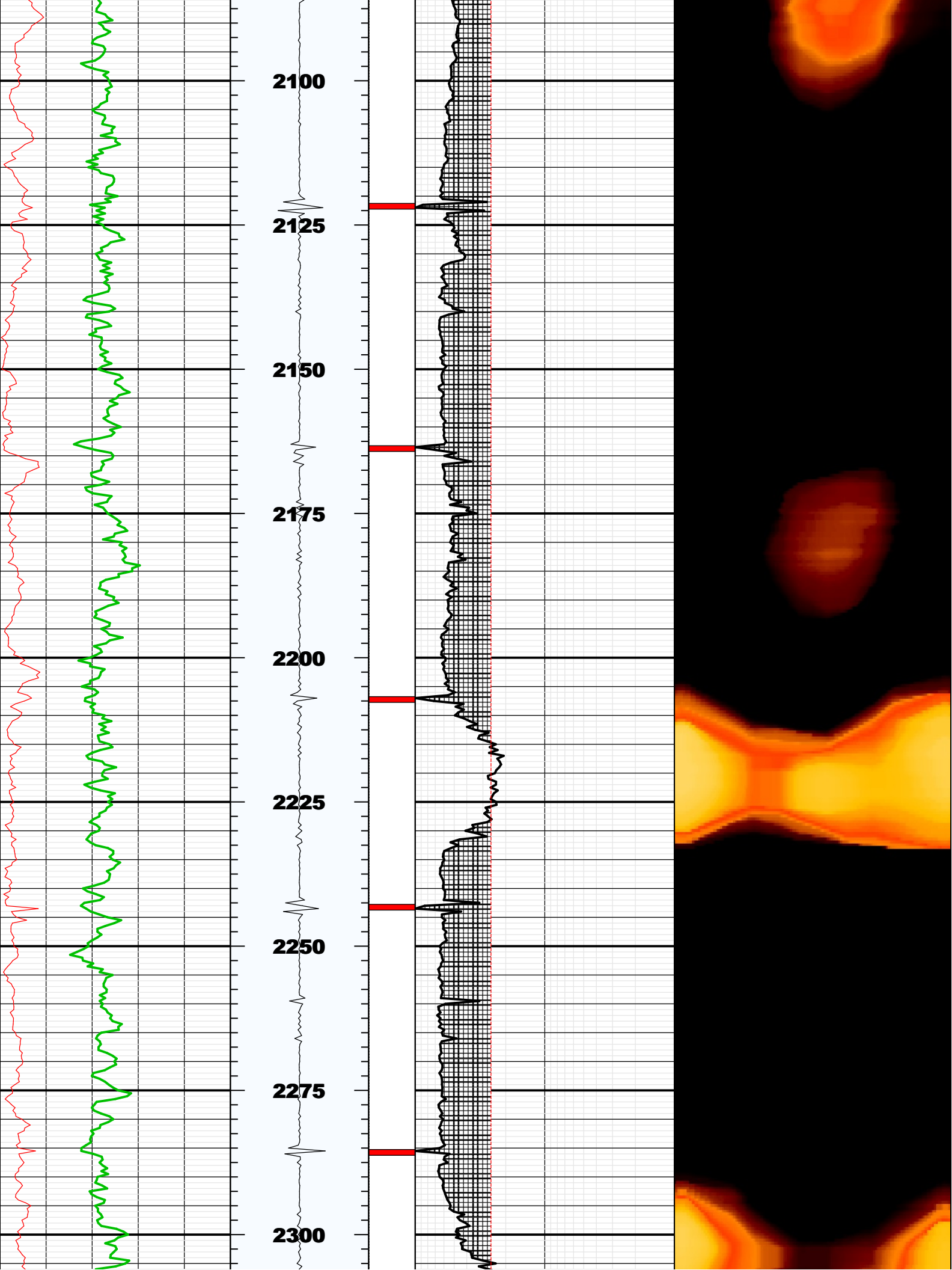


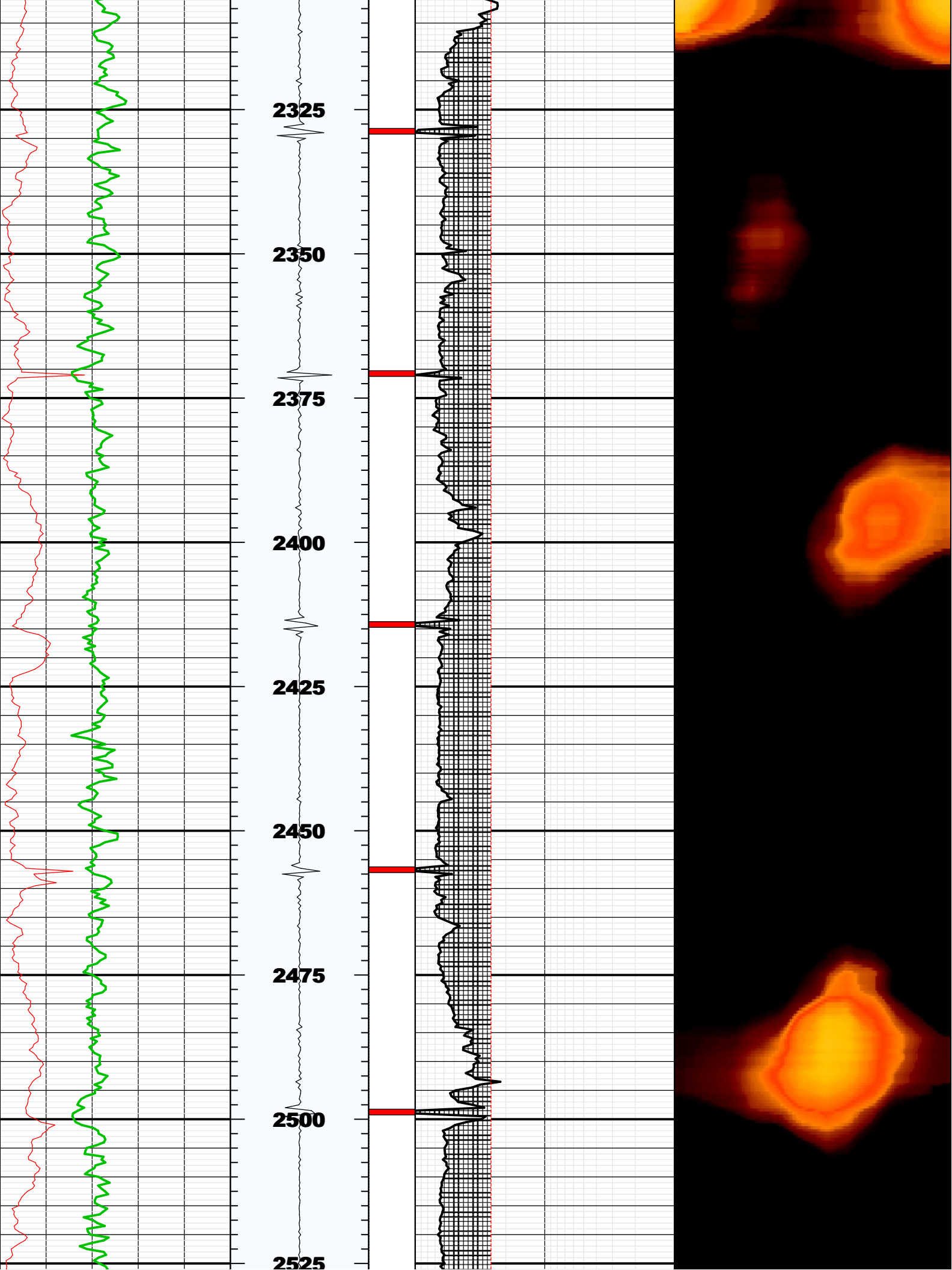


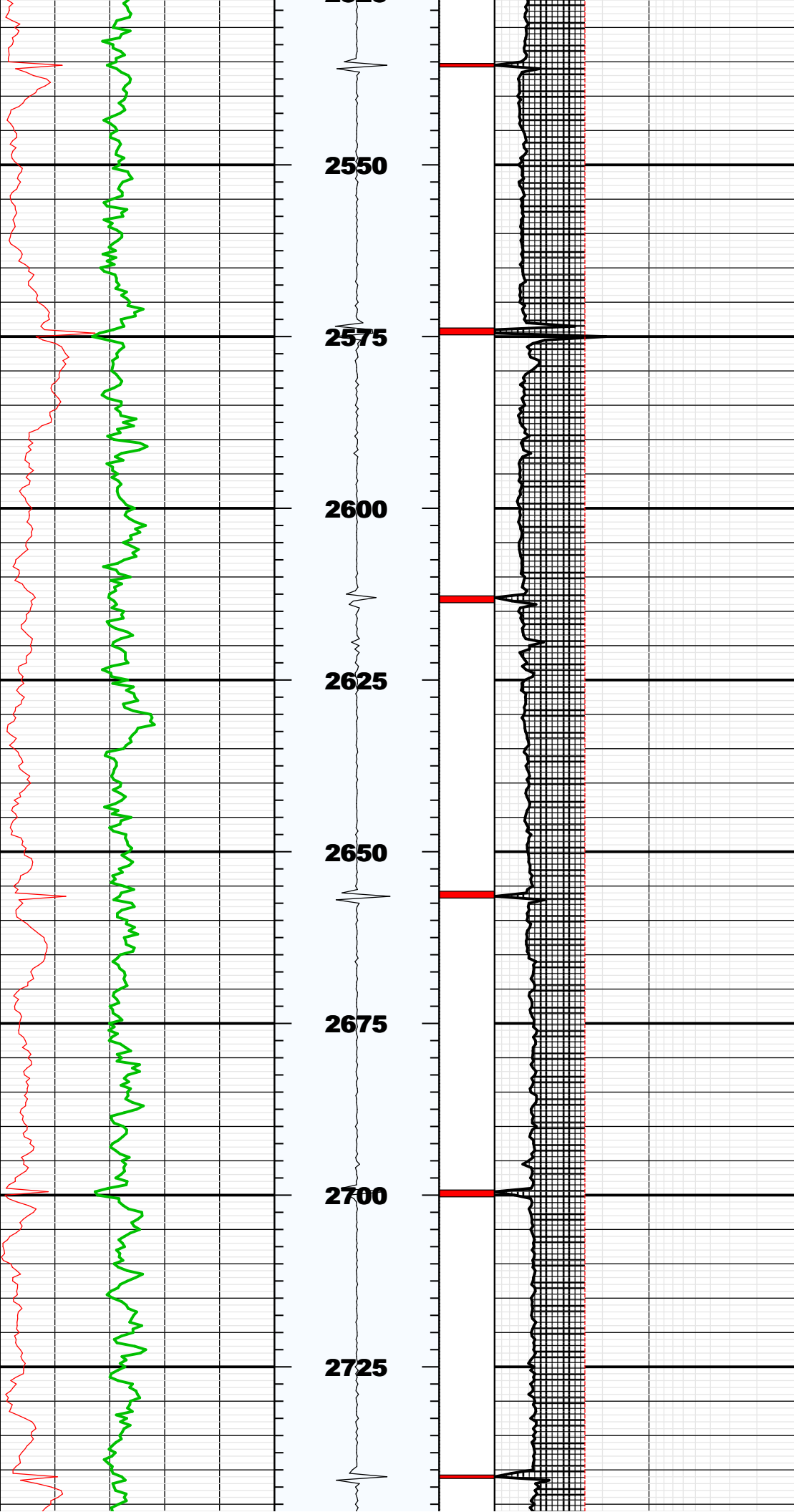


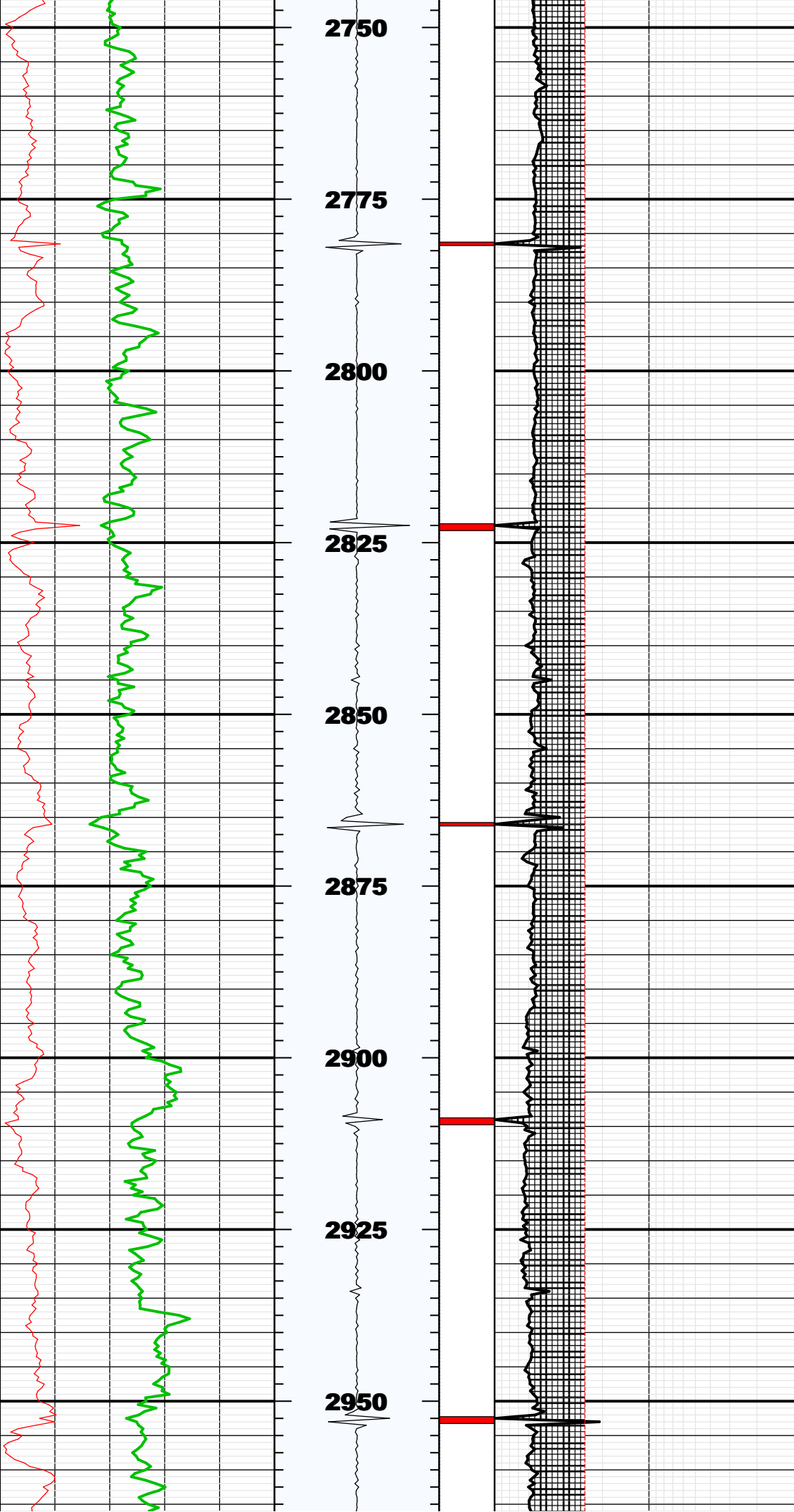


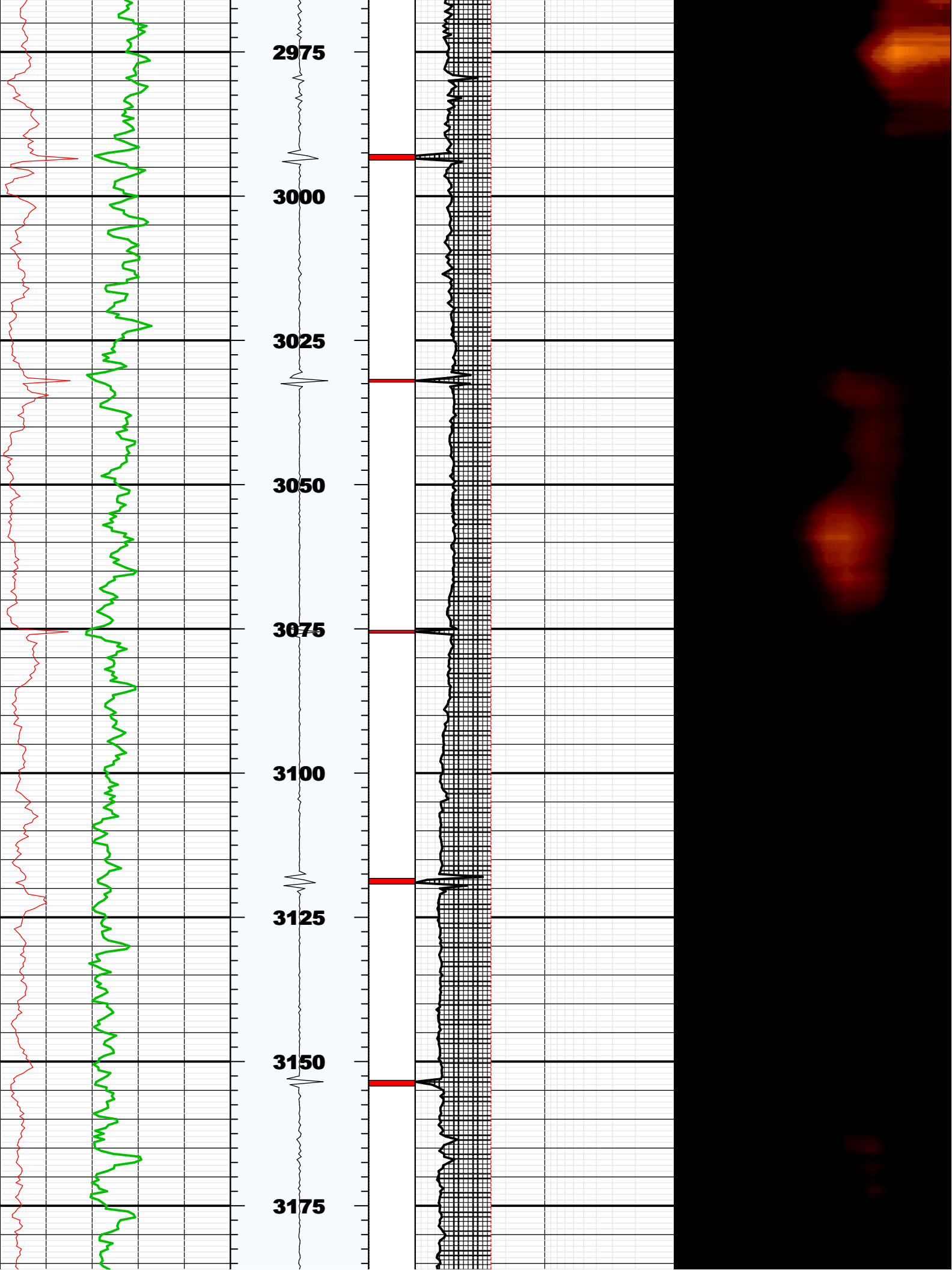


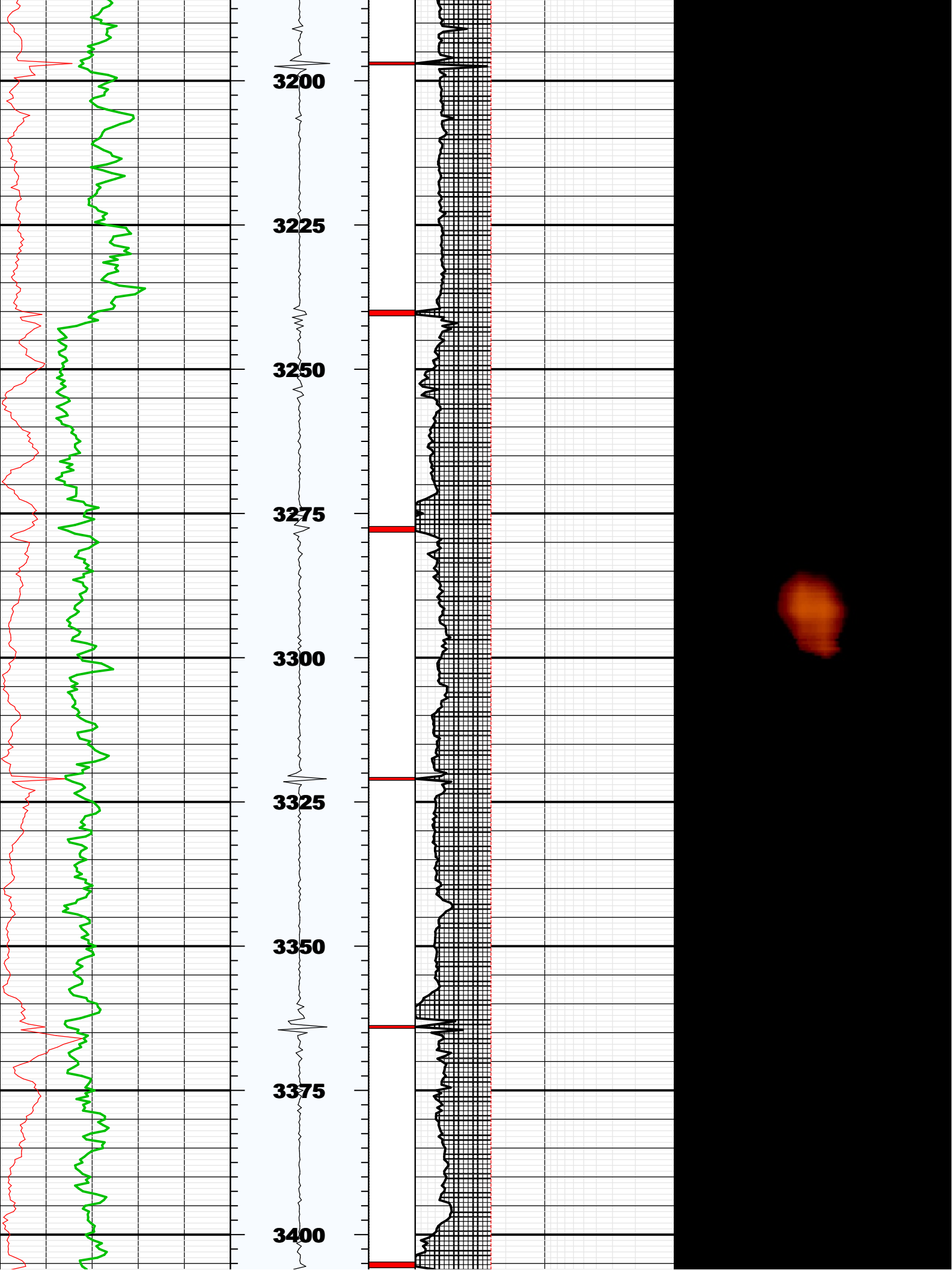


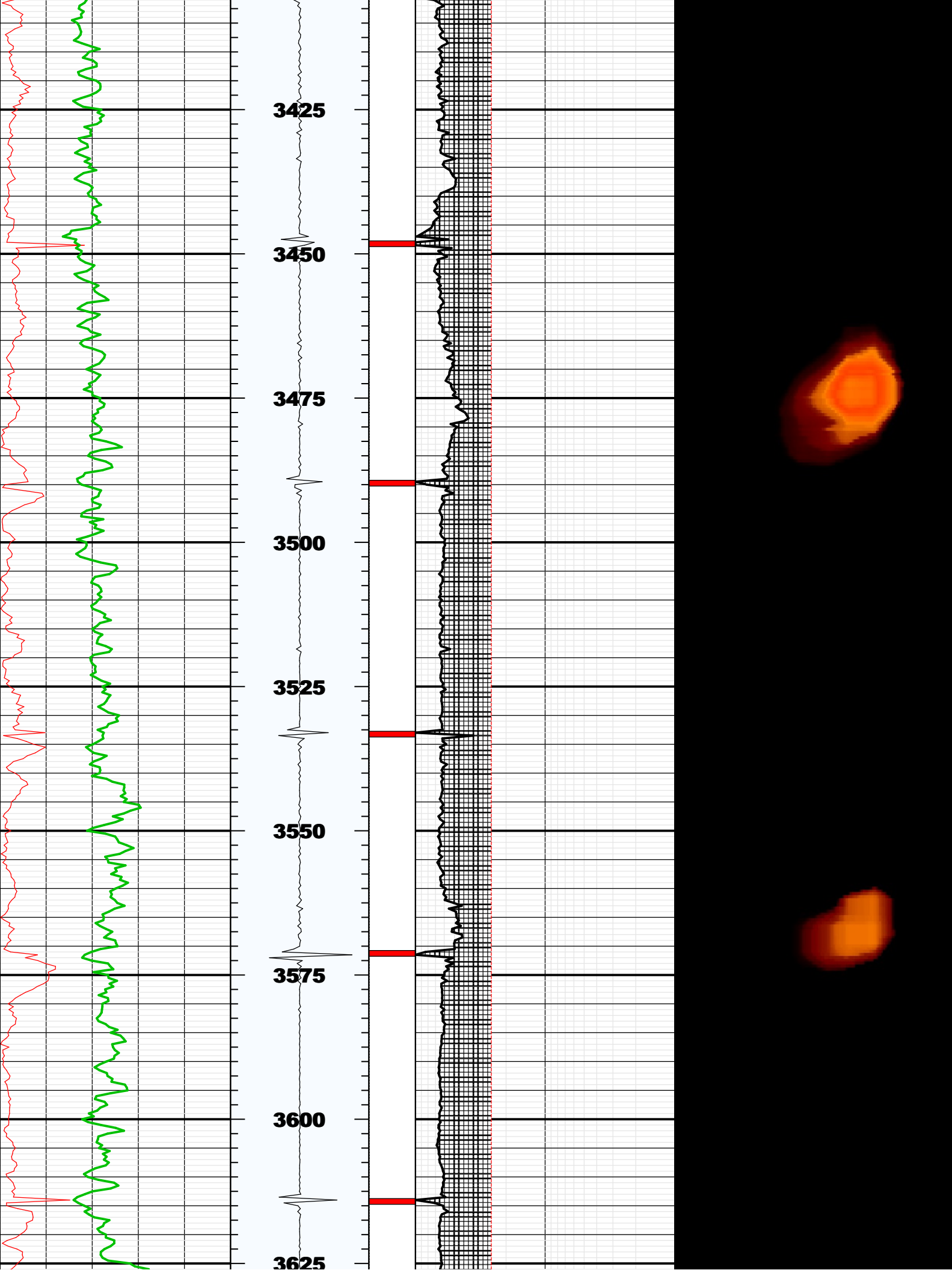


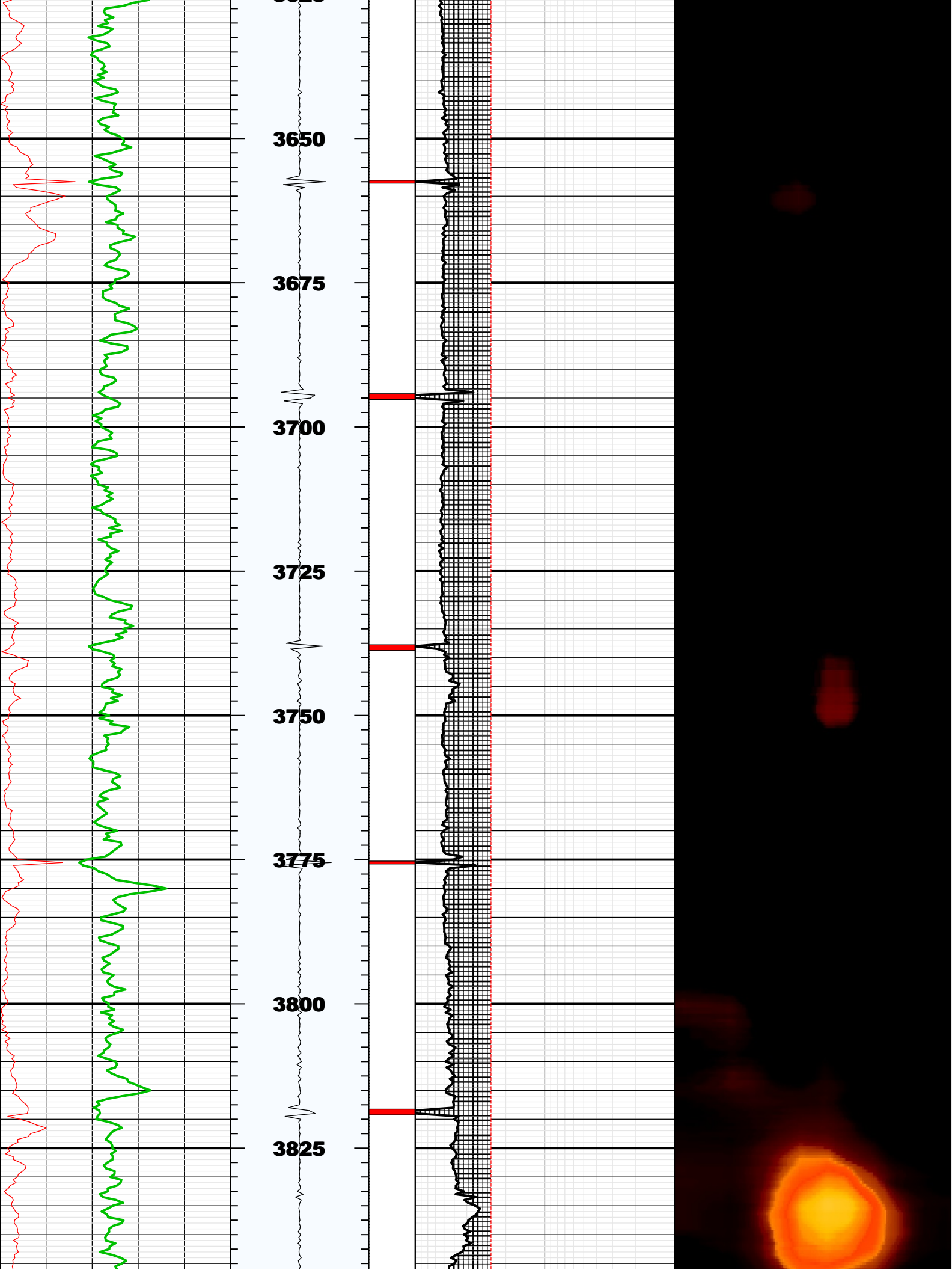


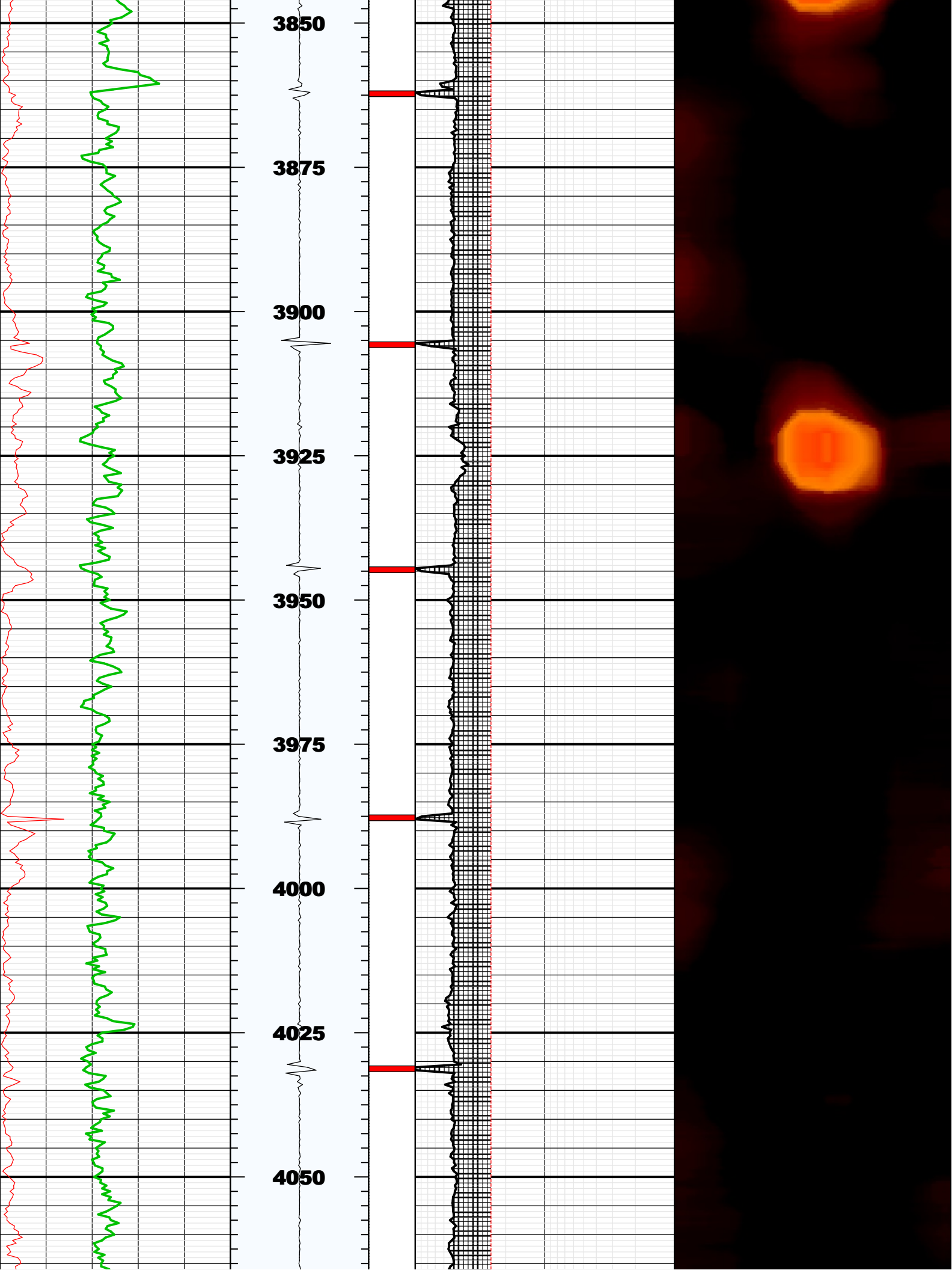


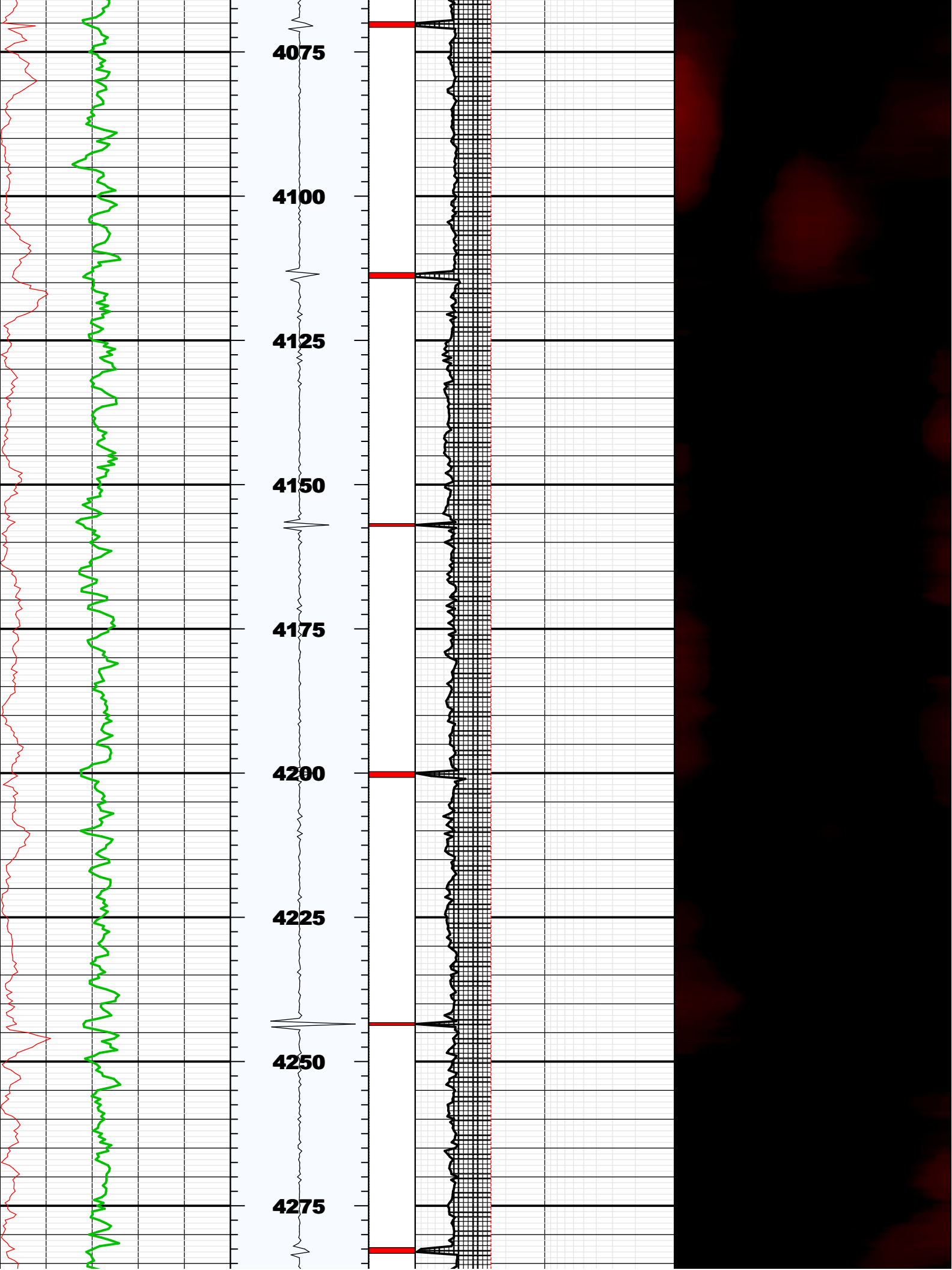


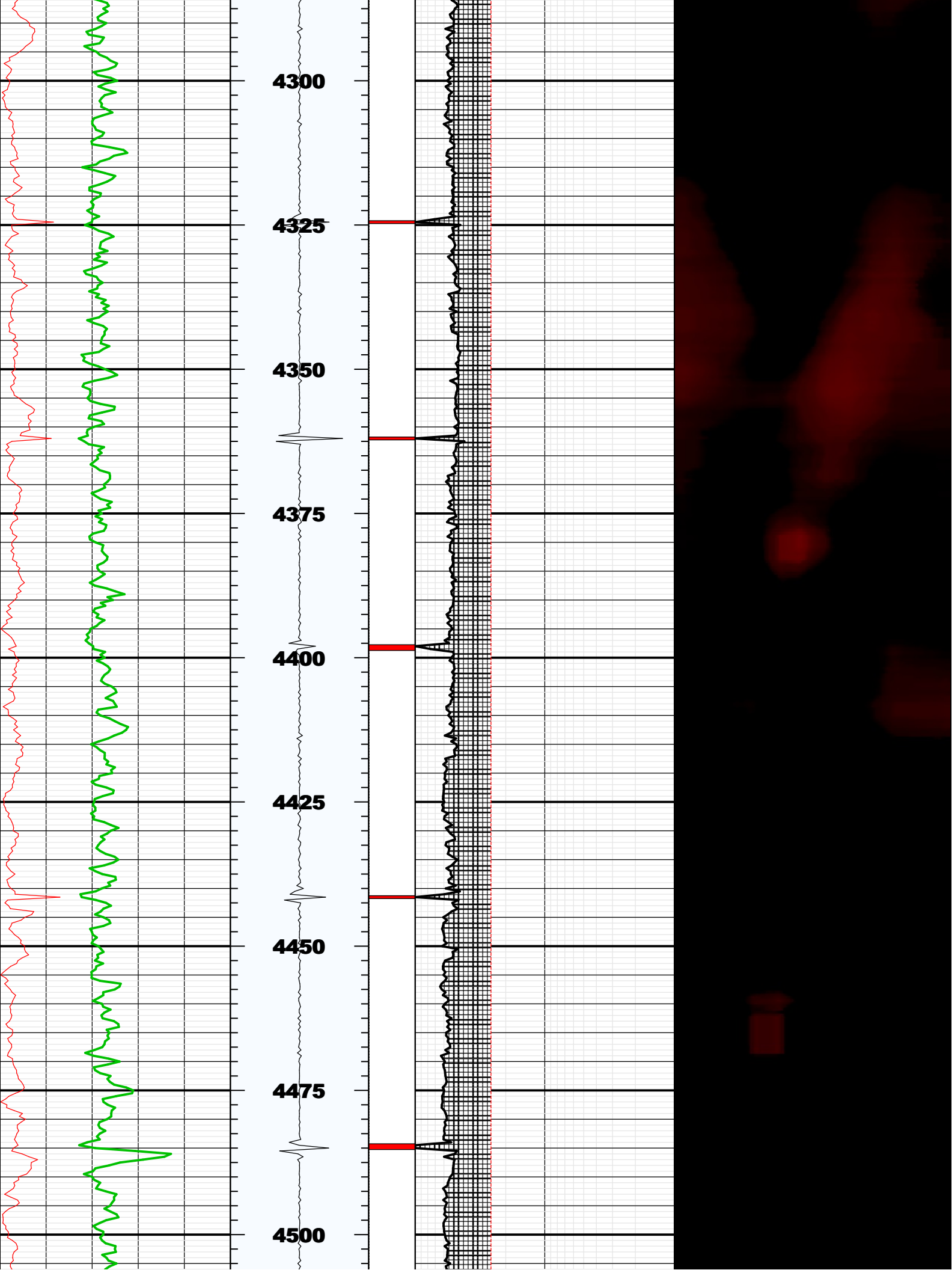


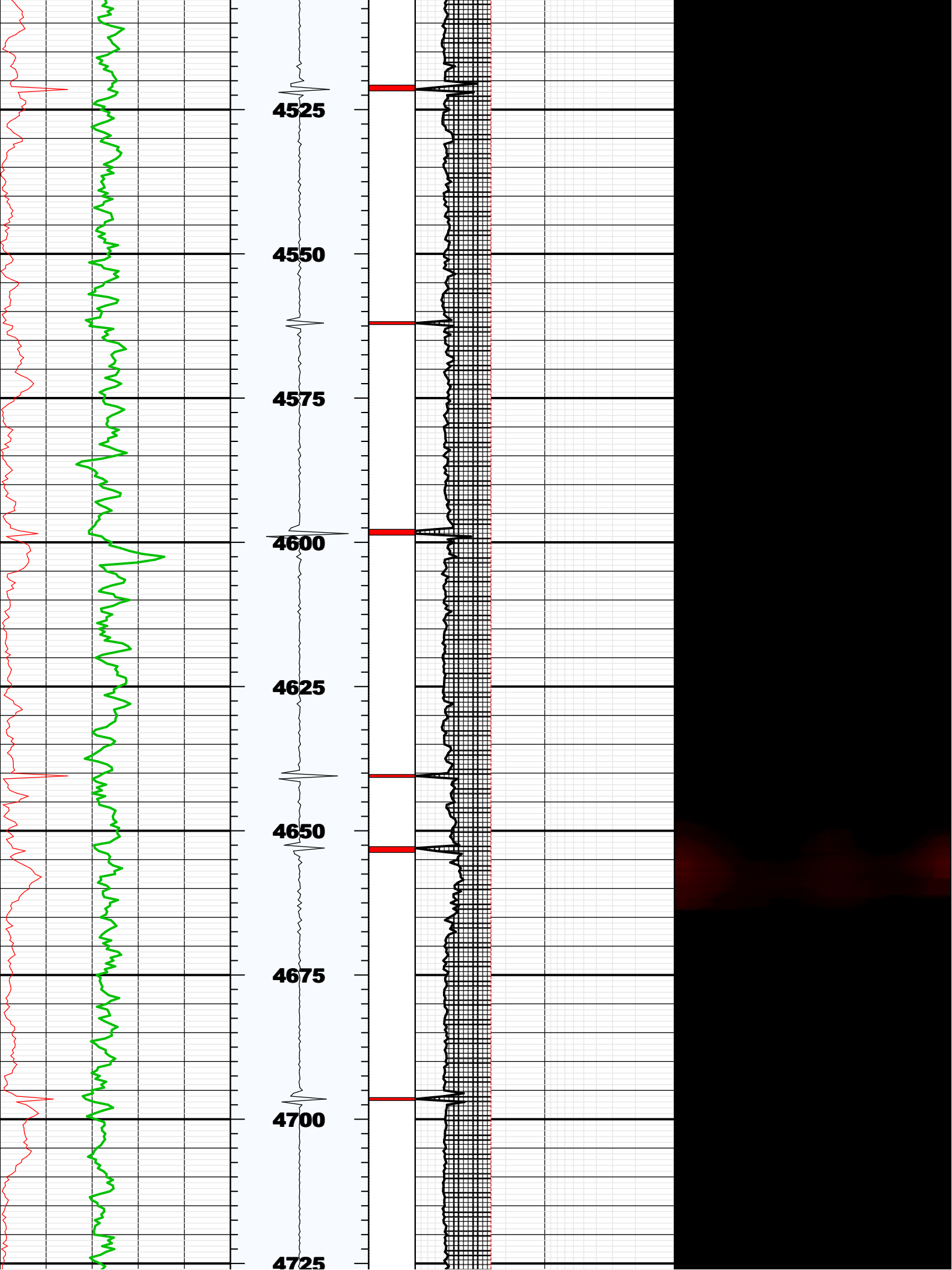


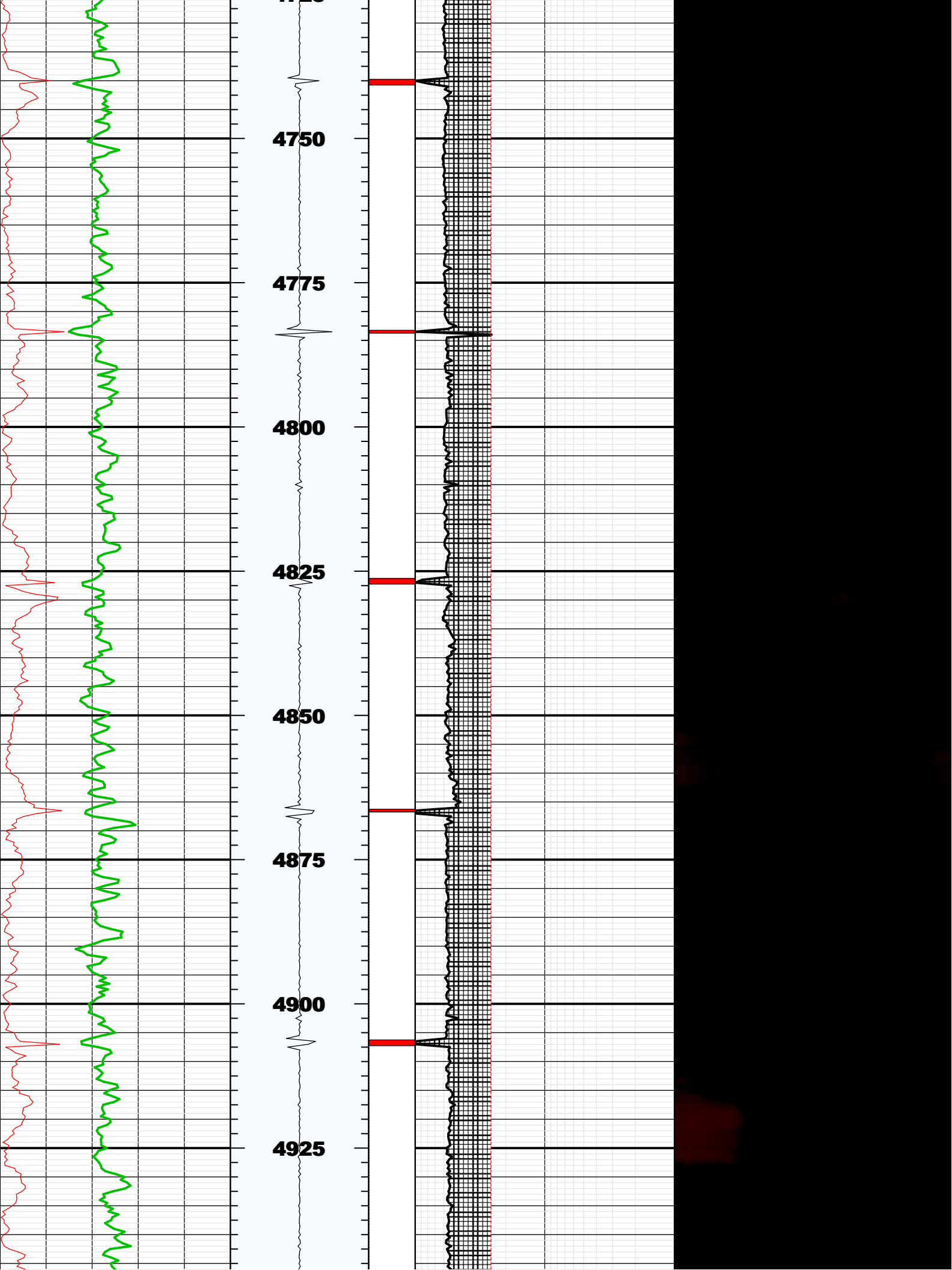


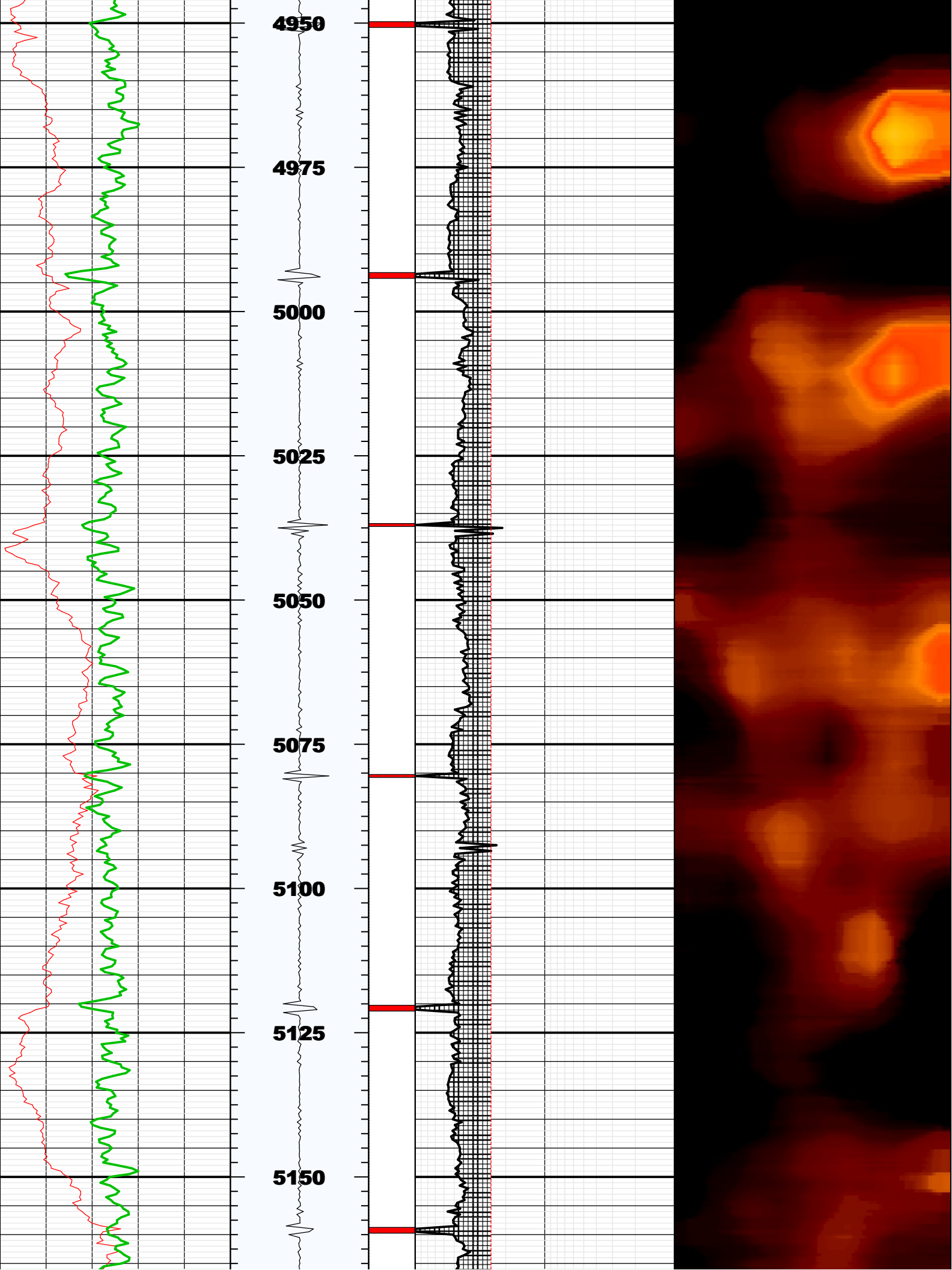


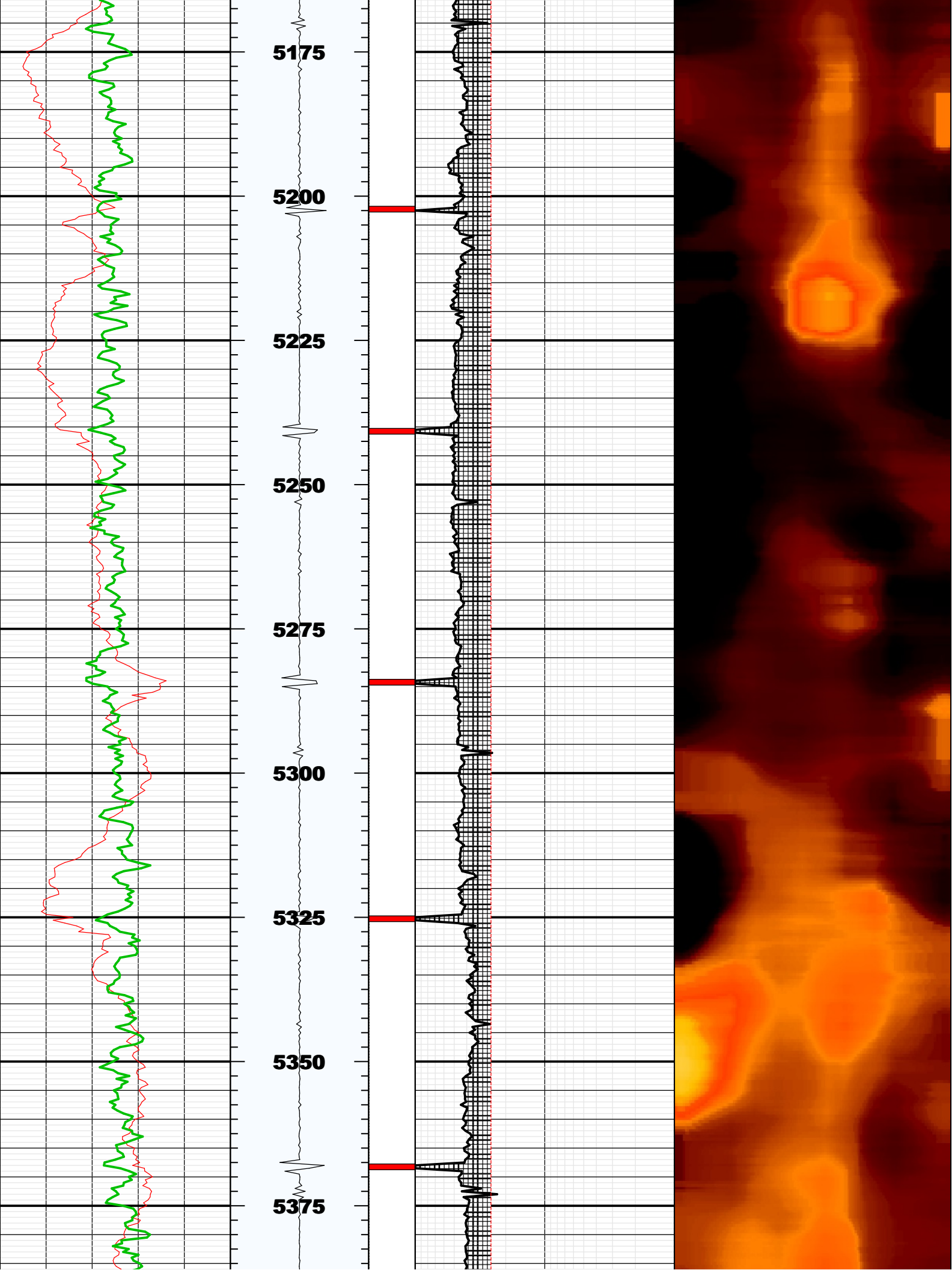


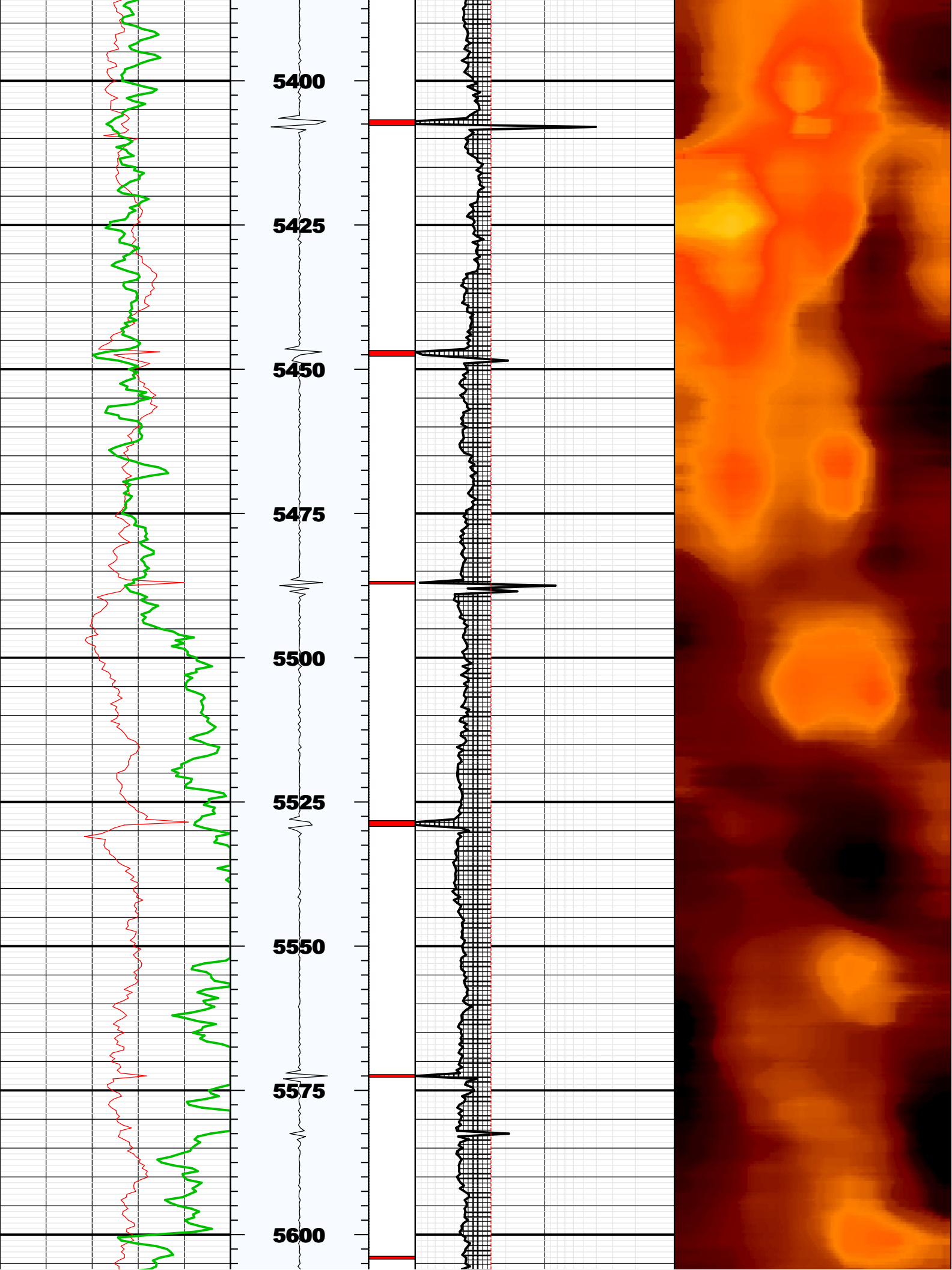


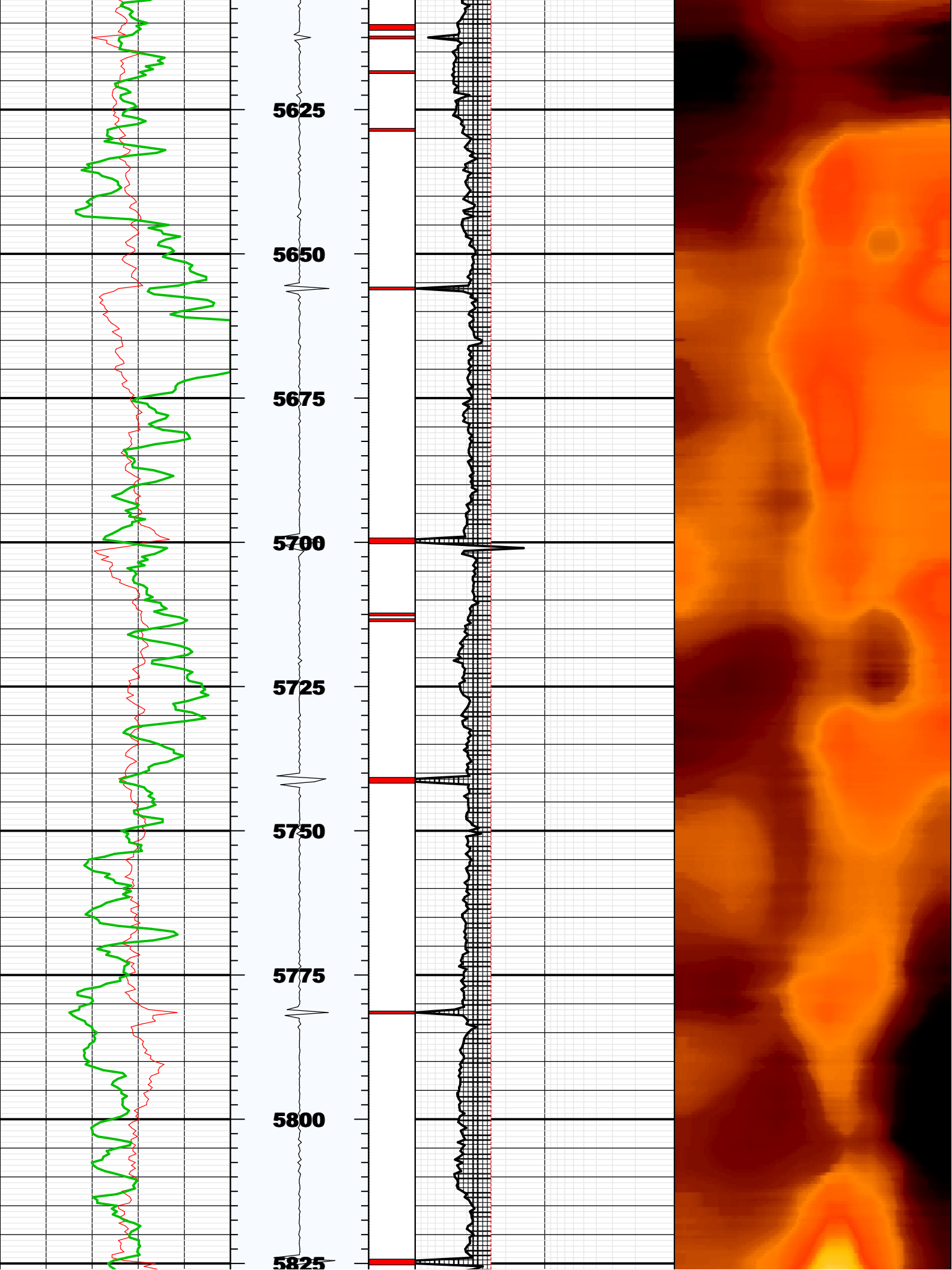


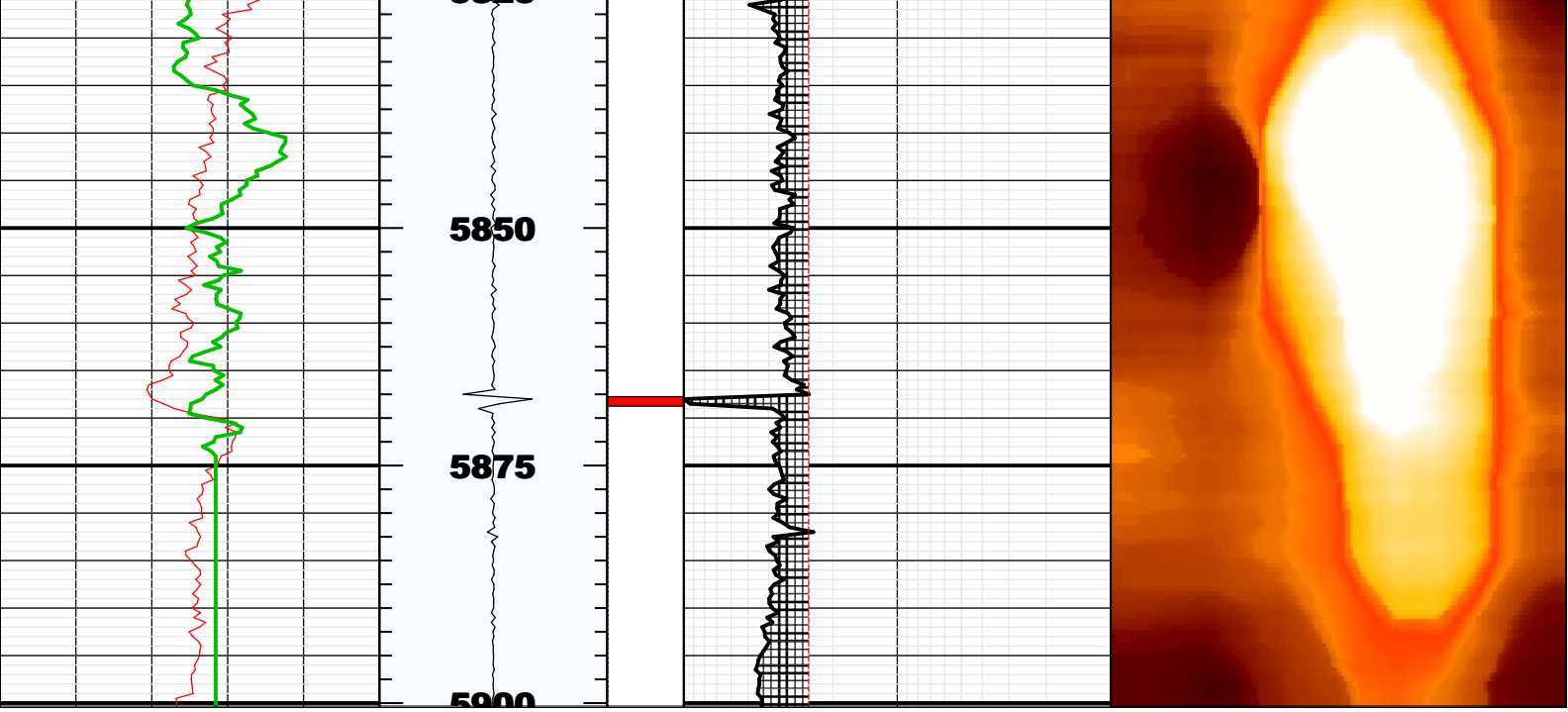








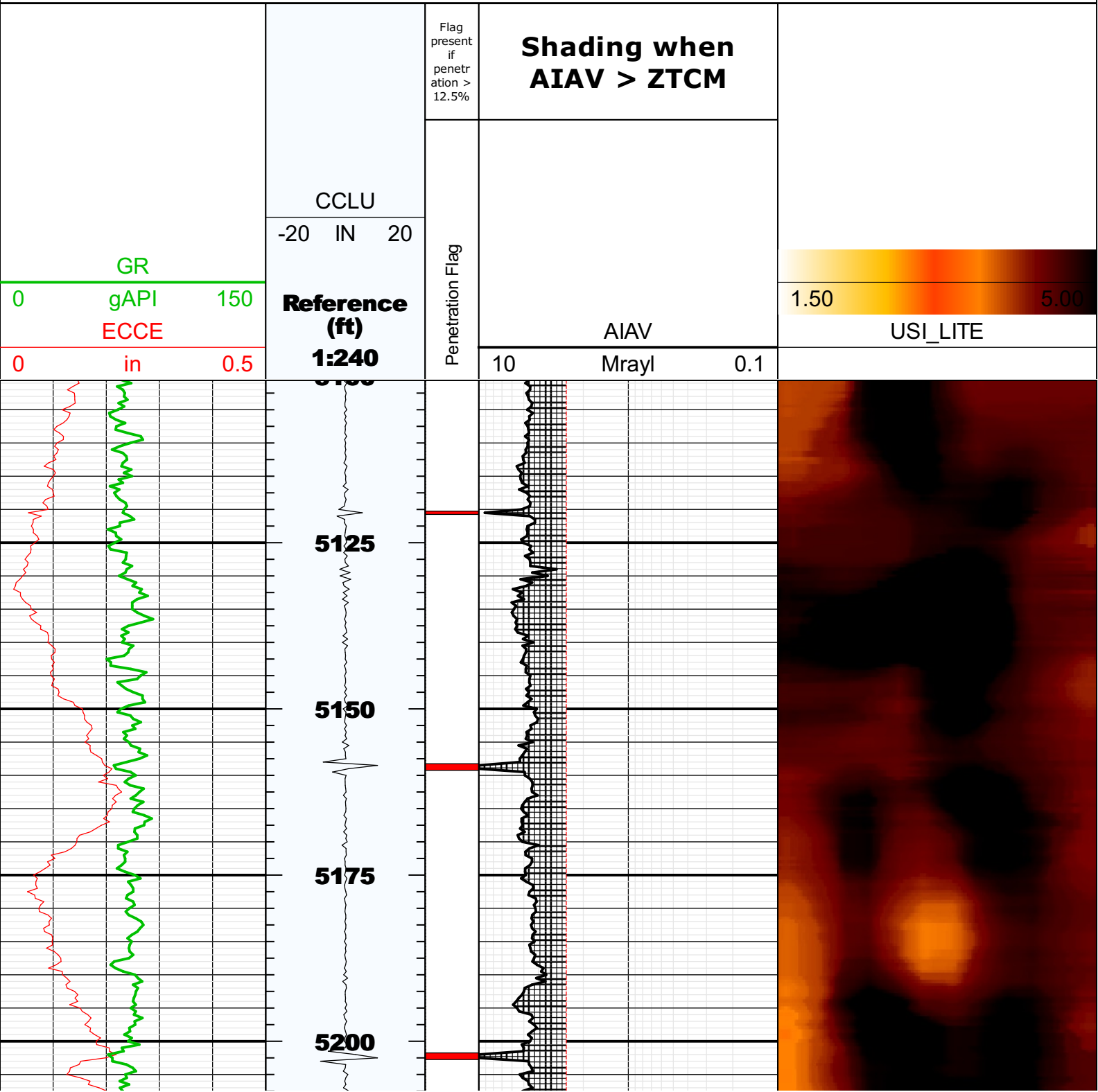


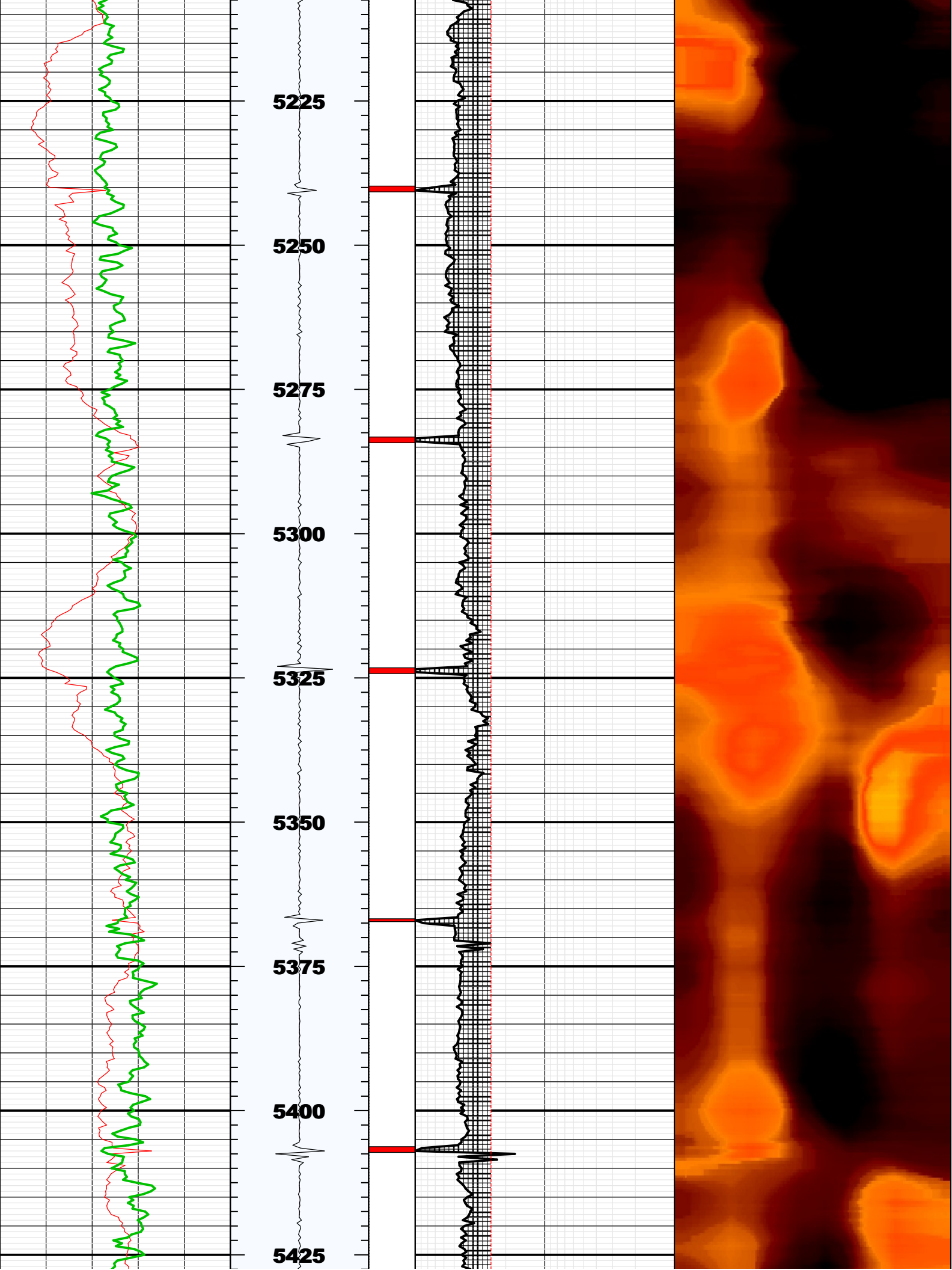


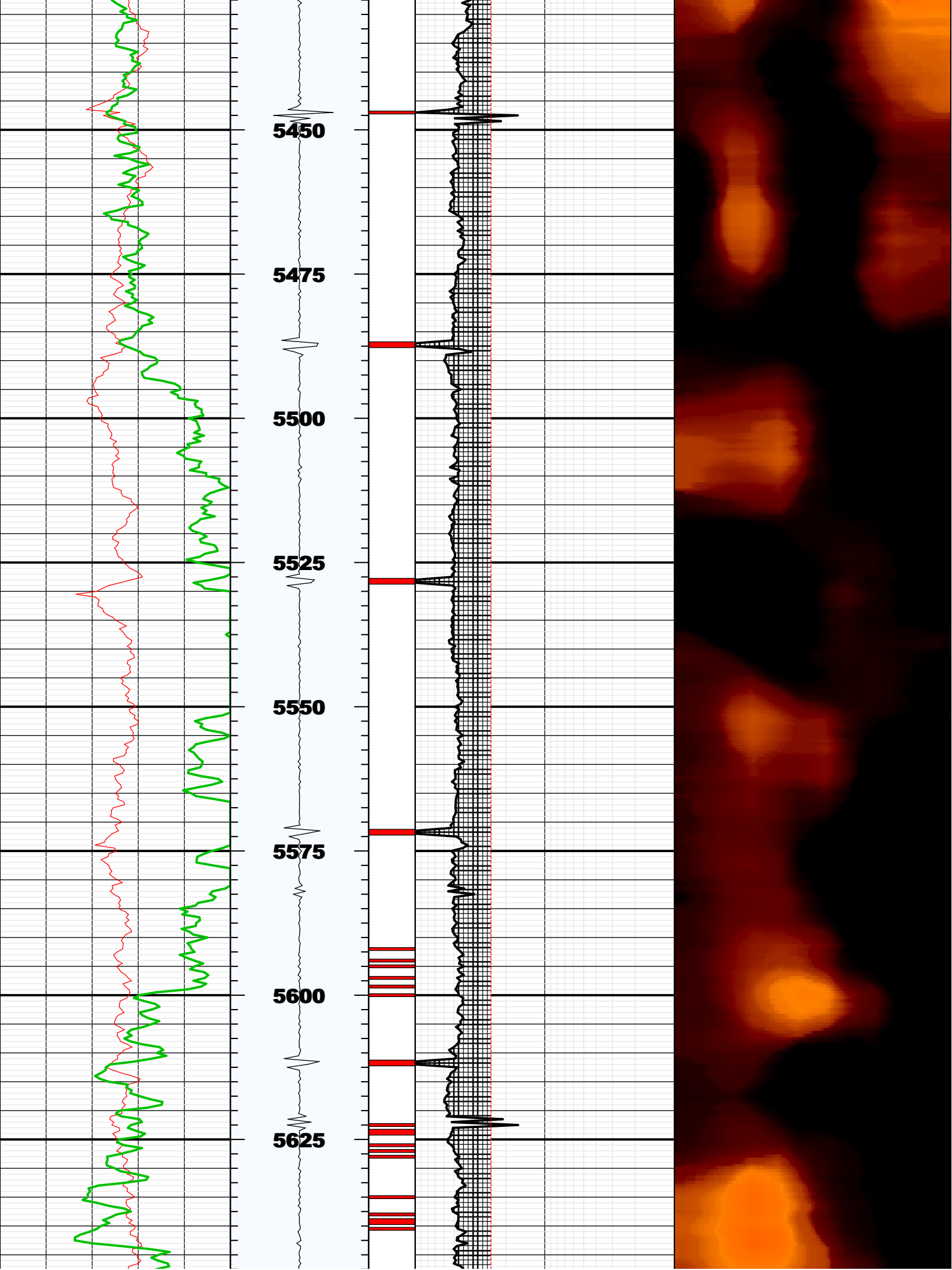
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	206.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	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	38.40100	US	Window Begin Time
WINE	82.13998	US	Window End Time
ZCAS	46.25000	MRAY	Acoustic Impedance of Casing
ZINI	-1.00000	MRAY	Initial Estimate of Cement Impedance
ZMUD	1.75000	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

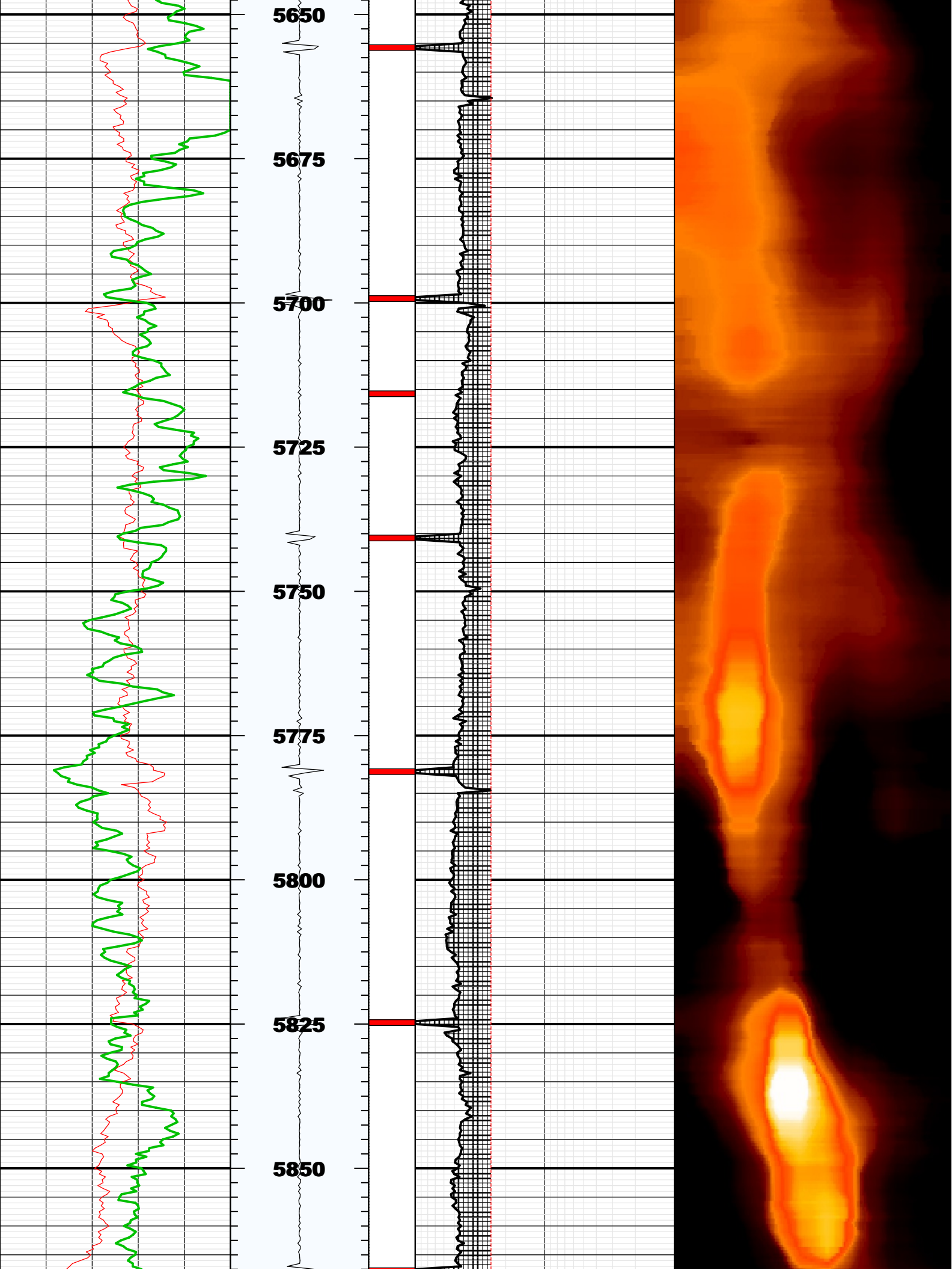
Repeat Pass

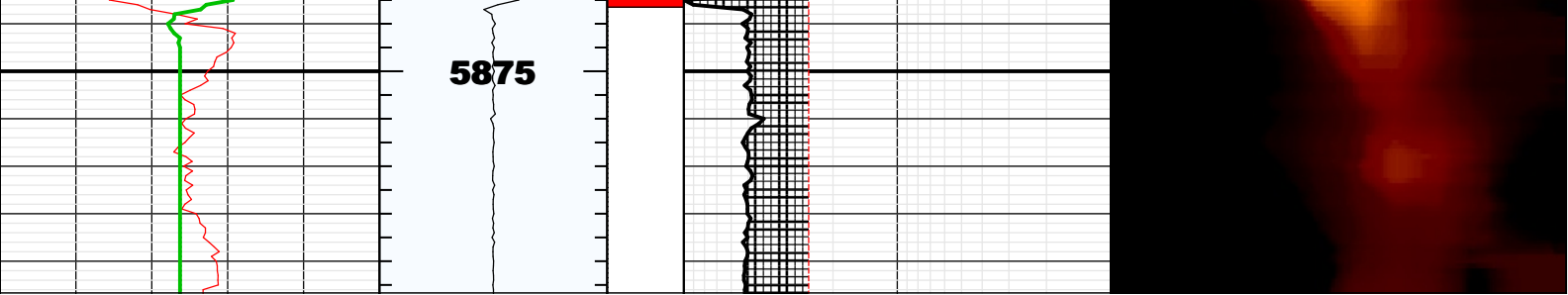
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Fluid Properties Used for Main Pass

