

Company: Noble Energy Inc

Well: Fiscus Federal LD15-76HN  
Field: Wildcat  
County: Weld State: Colorado

County: Weld			
Field: Wildcat			
Location: NENW Sec.15 T9N R58W			
Well: Fiscus Federal LD15-76HN			
Company: Noble Energy Inc			
USI-LITE (2500 psi)			
Permanent Datum: Log Measured From: Drilling Measured From:		GL KB KB	Elev: K.B. 4716.0 F G.L. 4700.0 F D.F. 4715.0 F
Logging Date	02-Dec-2014	API Serial No. 05-123-37368	Section 15
Run Number	Run 1		Township 9N
Depth Driller	5992.0 F		Range 58W
Schlumberger Depth	5992.0 F		
Bottom Log Interval	5810.0 F		
Top Log Interval	15.0 F		
Casing Fluid Level	0.0 F		
Salinity			
Density	8.40 LB/G		
Fluid Level	0.0 F		
BIT/CASING/TUBING STRING			
Bit Size	8.750 IN		
From	1200.0 F		
To	5992.0 F		
Casing Size	7.00 IN		
Weight	26.00 LB/F		
Grade	N/A		
From	0.0 F		
To	5987.6 F		
Max Recorded Temp	217.0		
Logger on bottom (date)	02-Dec-2014		
Location	Ft. Morgan CO		
Recorded By	Alekssei Bekhterev		
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: Calibration Date: Calibrator Serial Number: Number Of Calibration Points: Calibration RMS: Calibration Peak Error:	Serial Number: Length: 17000.00000

DISCLAIMER

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Repeat pass is done under 0PSI  
Main pass is done under 2500PSI

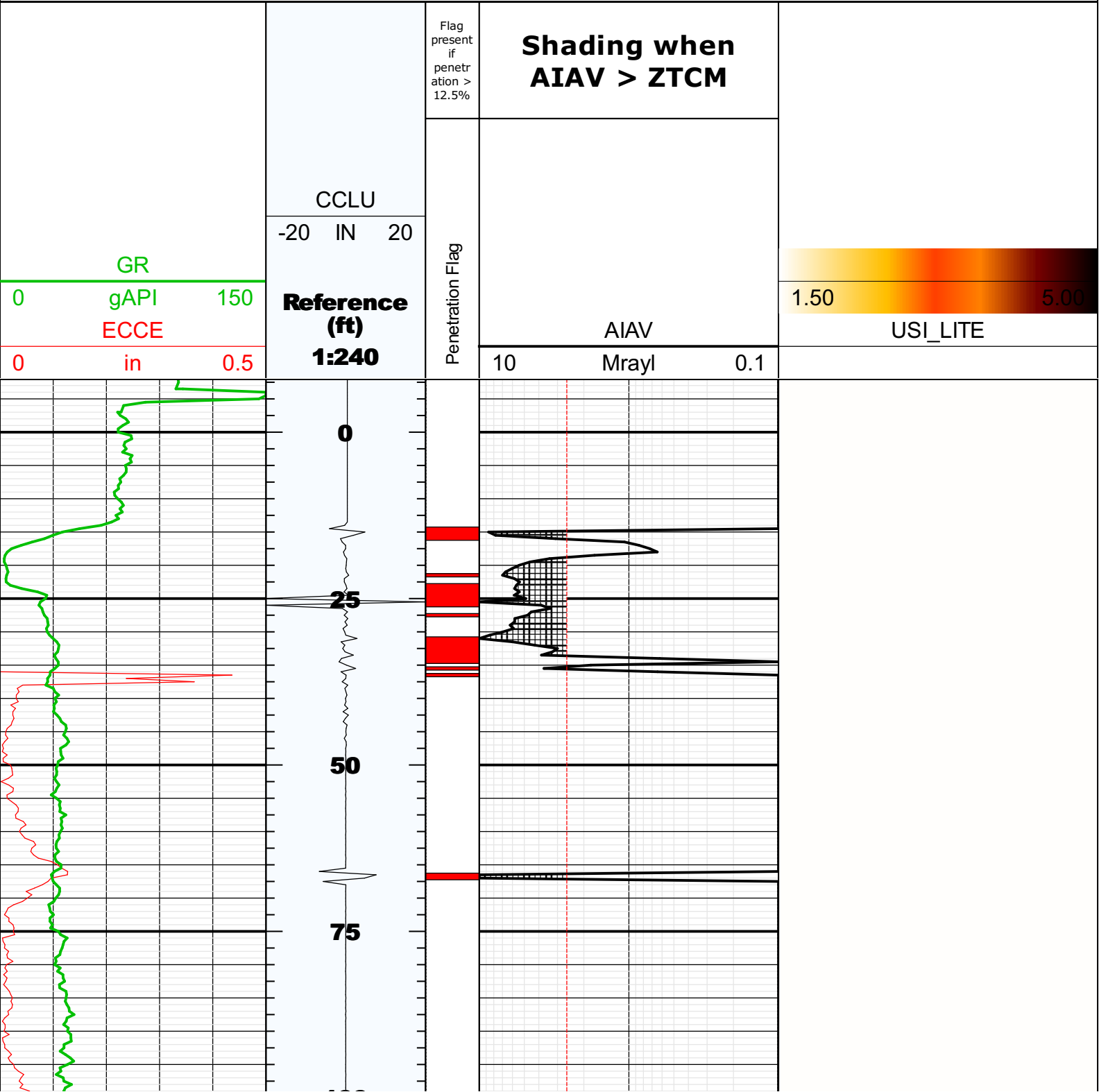
Top of Cement at 1205'.

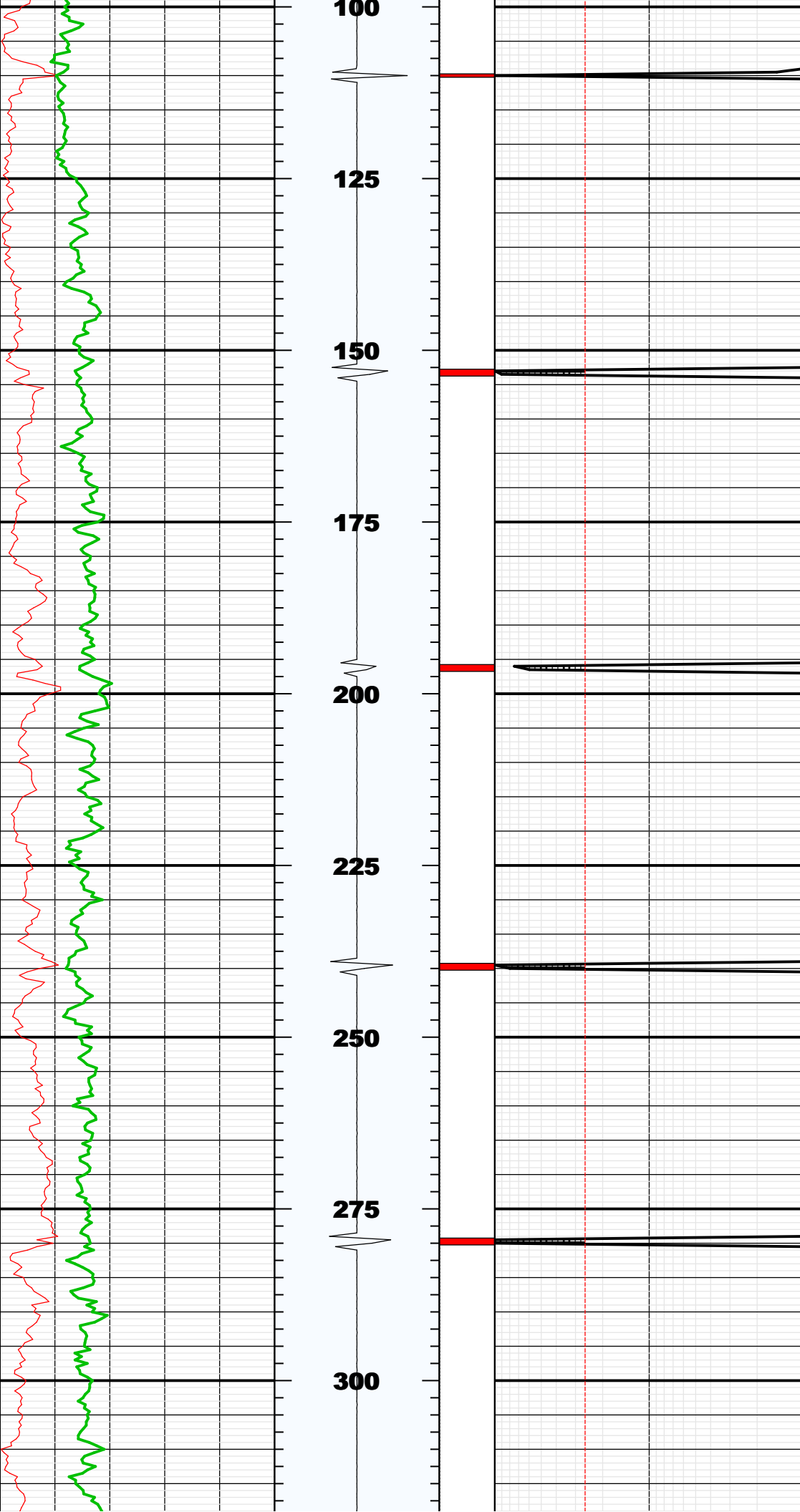
Temperature at 217 degF measured at depth.

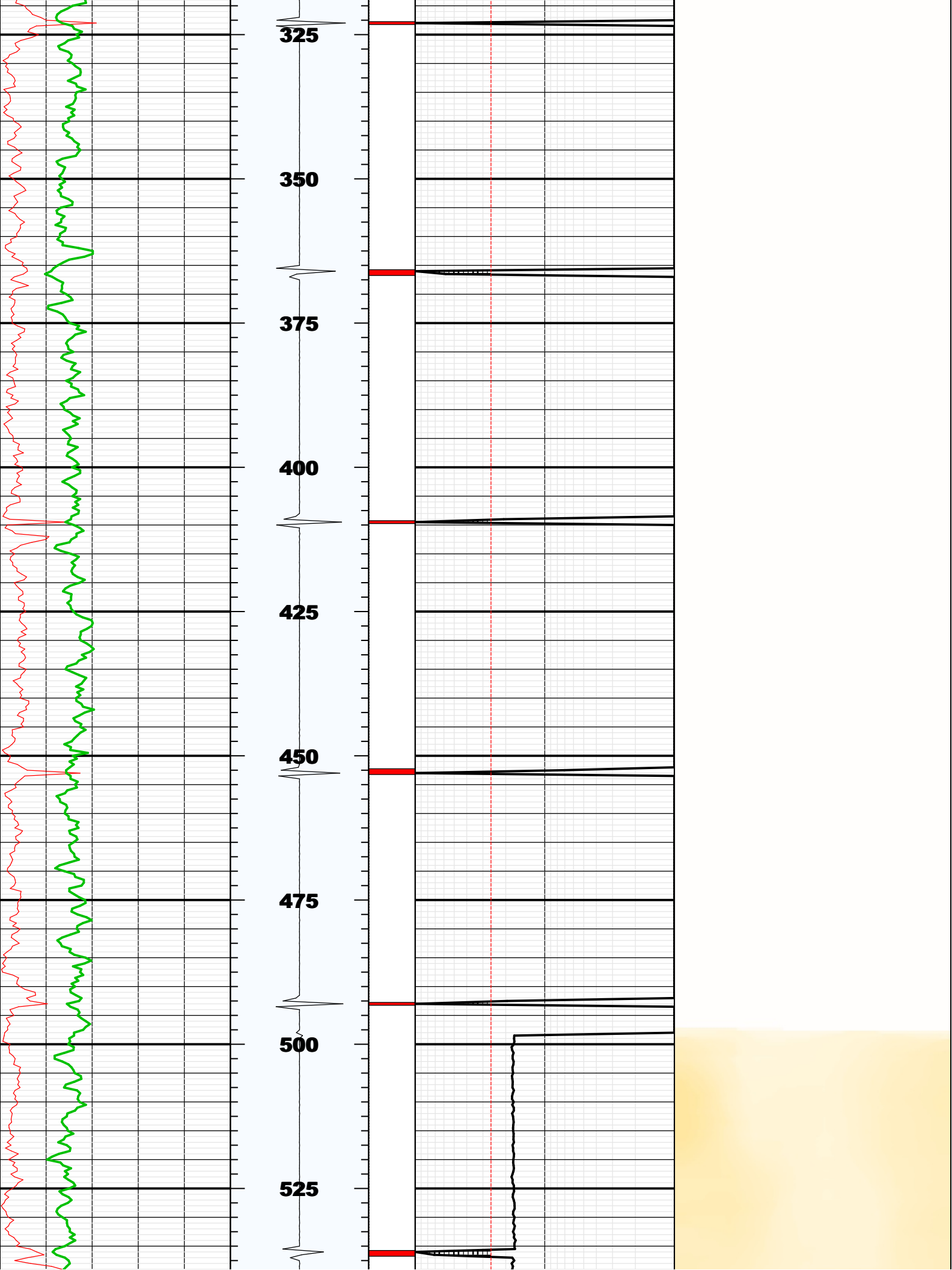
Log started 30ft above top of the liner (5810 ft).

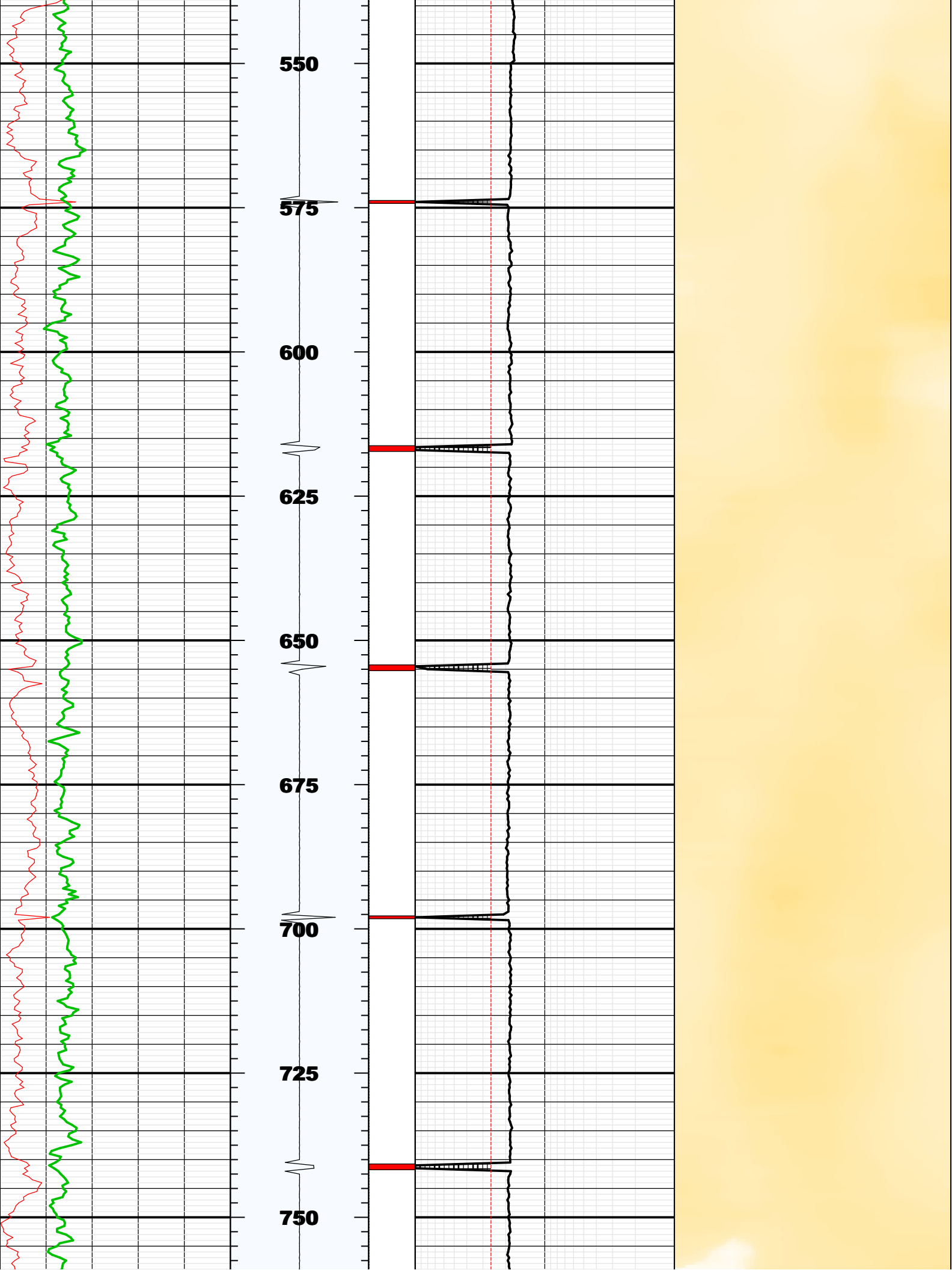
Main Pass

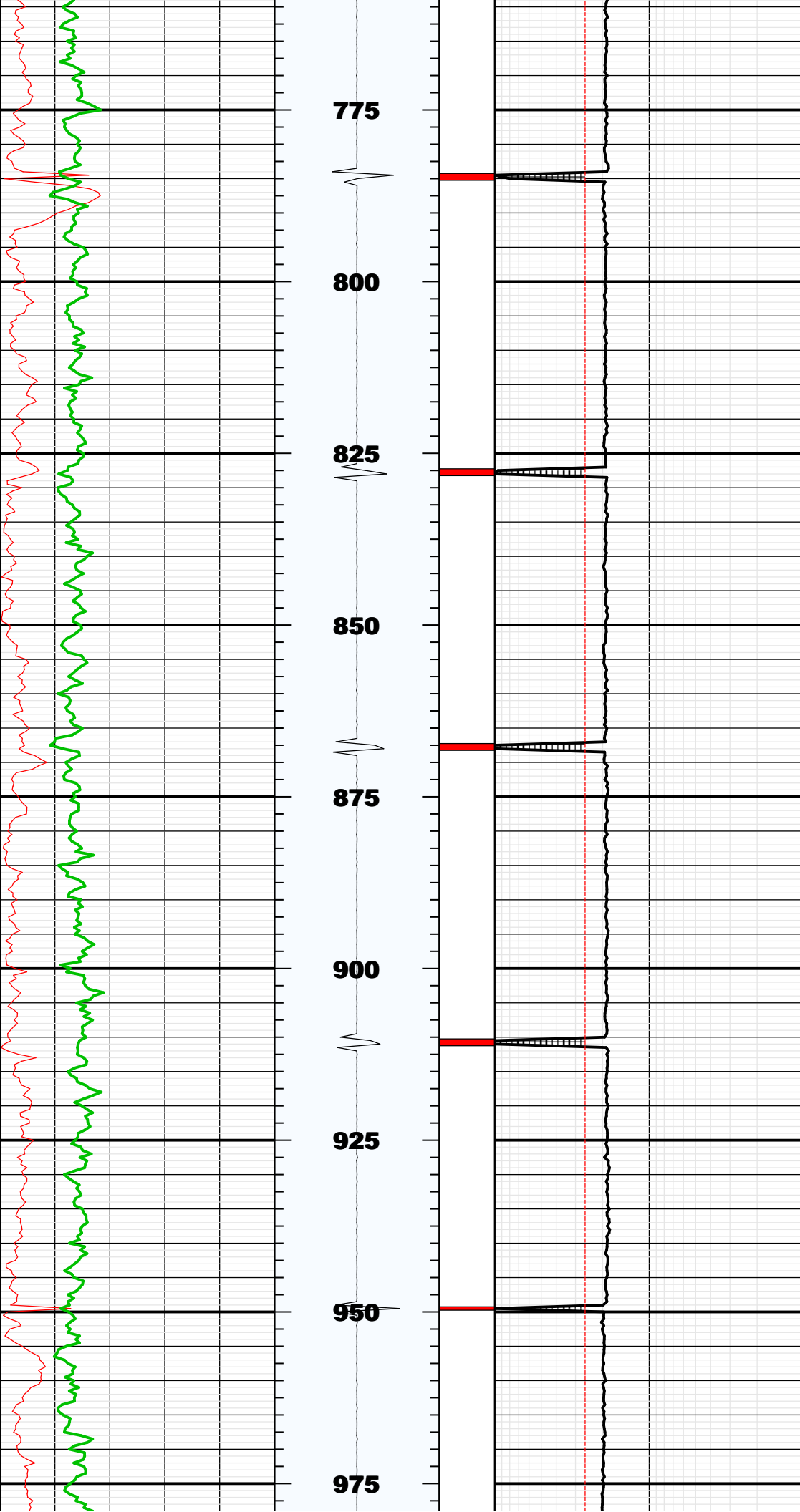
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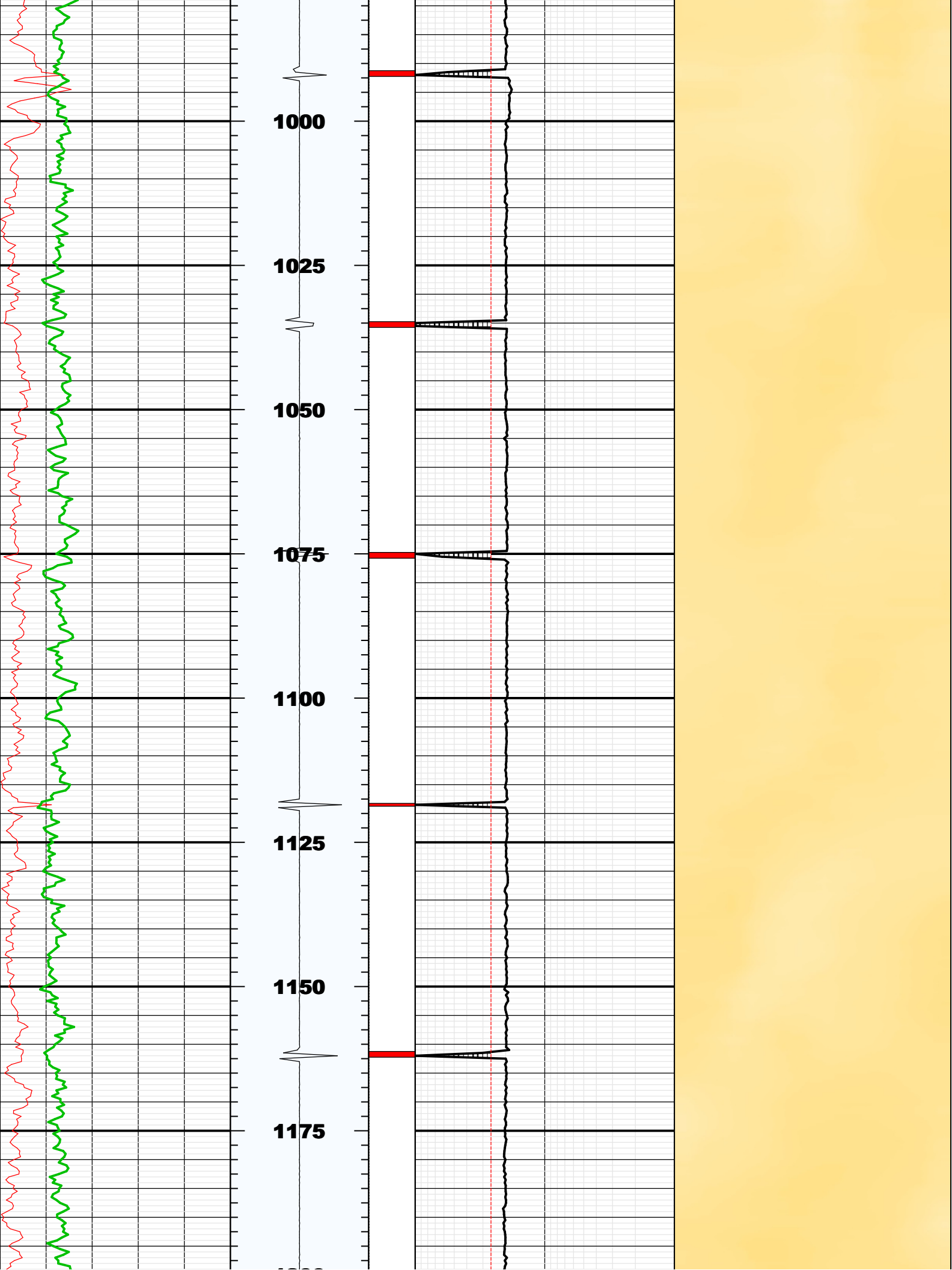




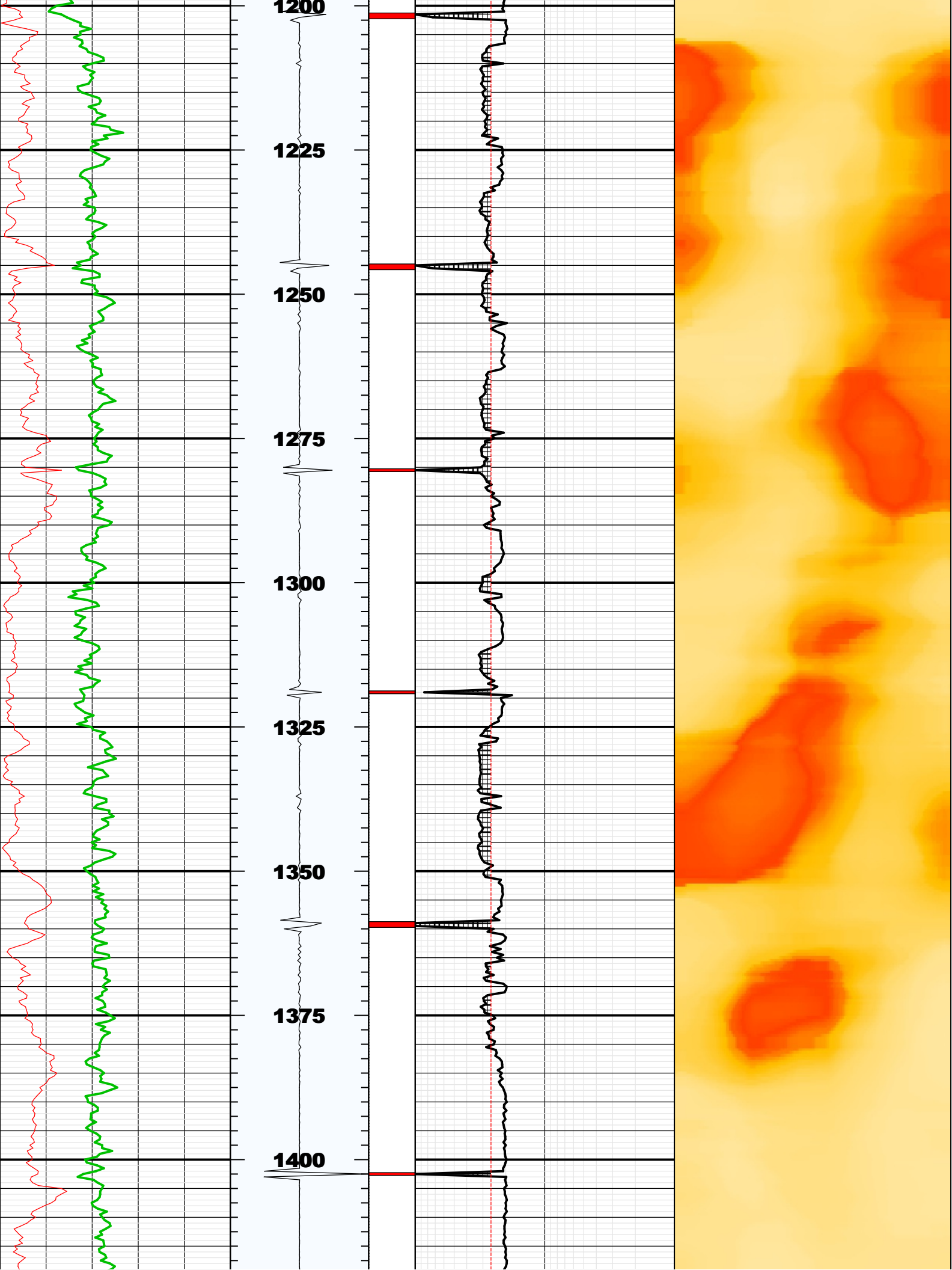


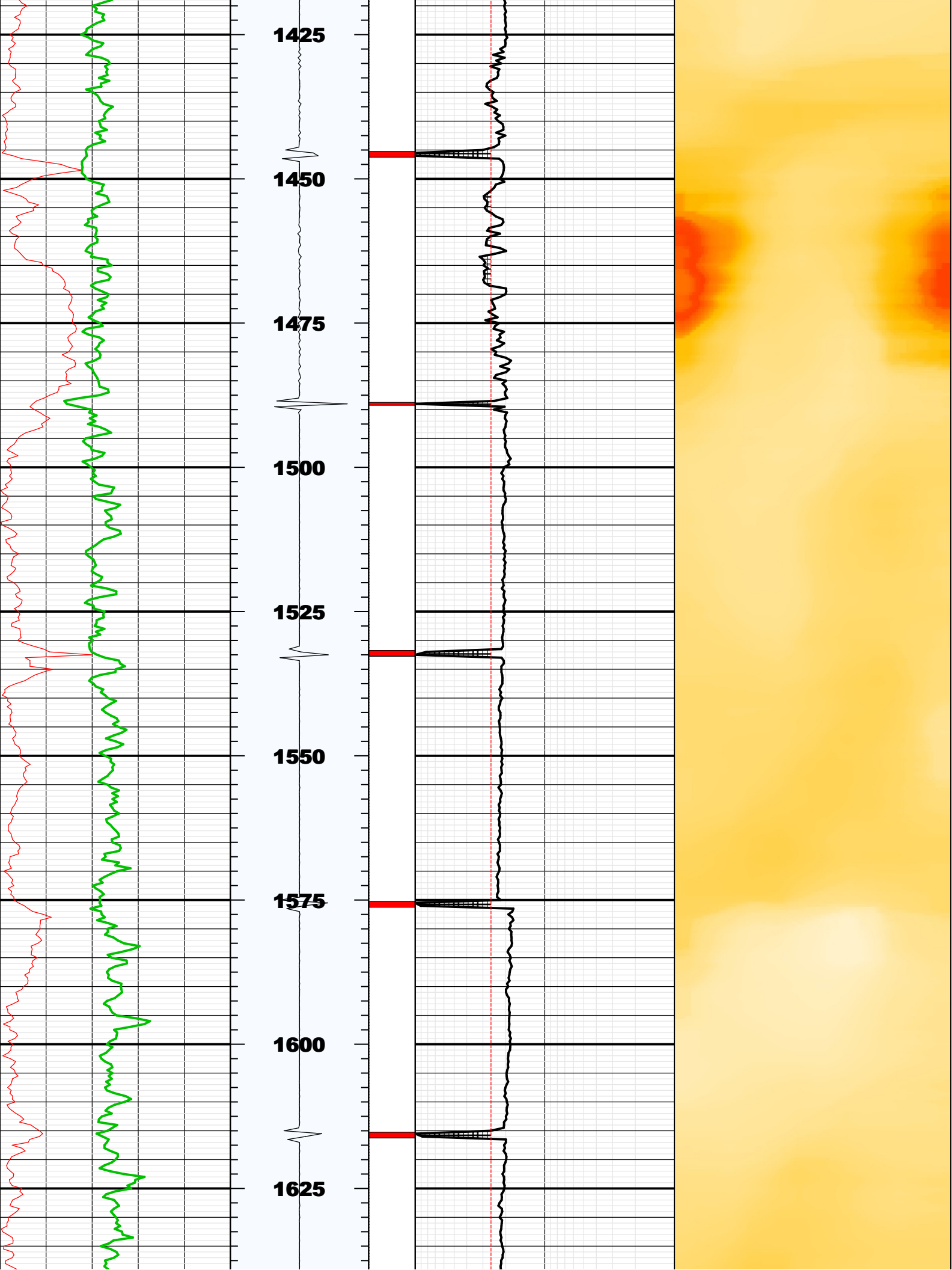


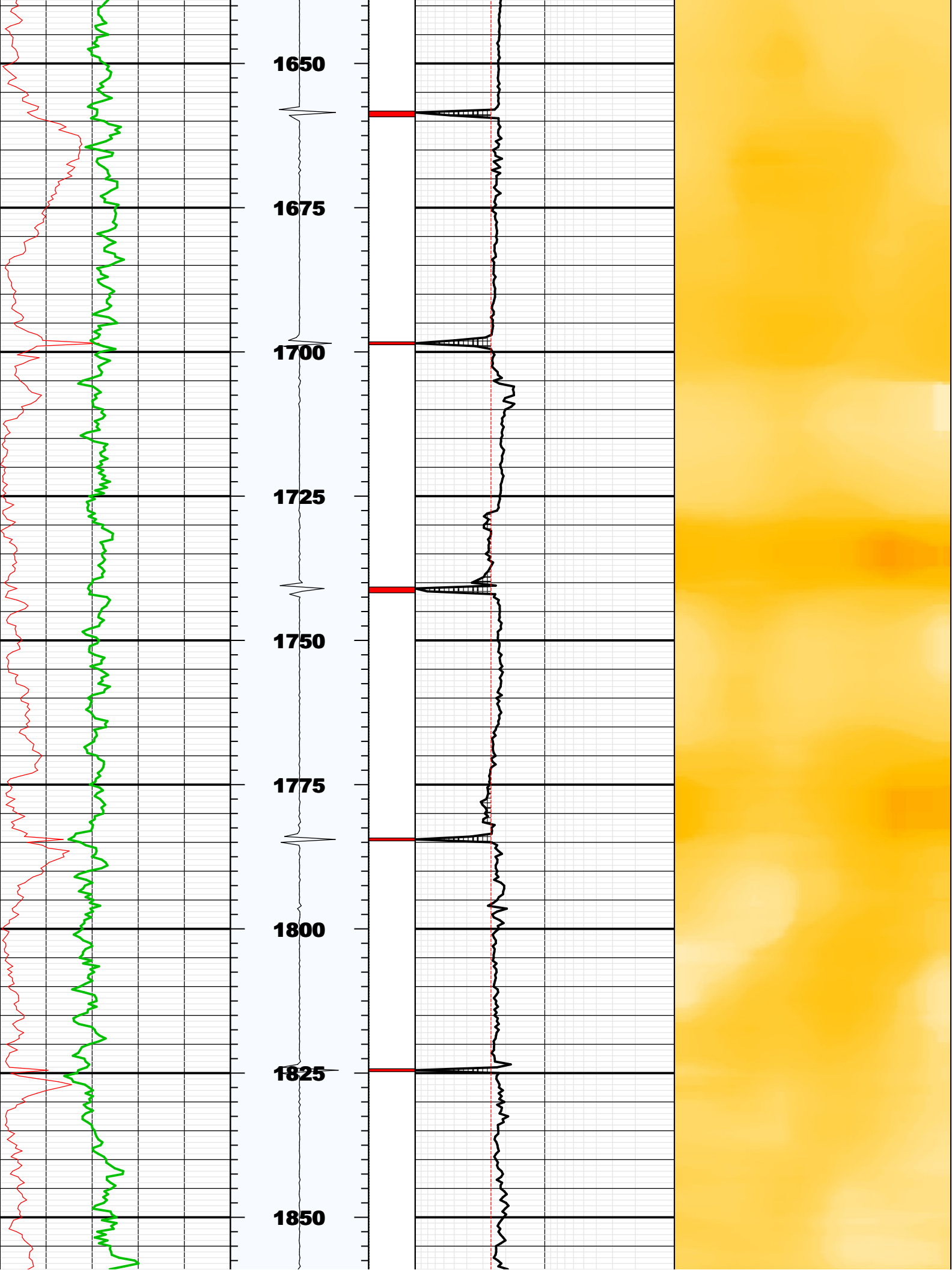


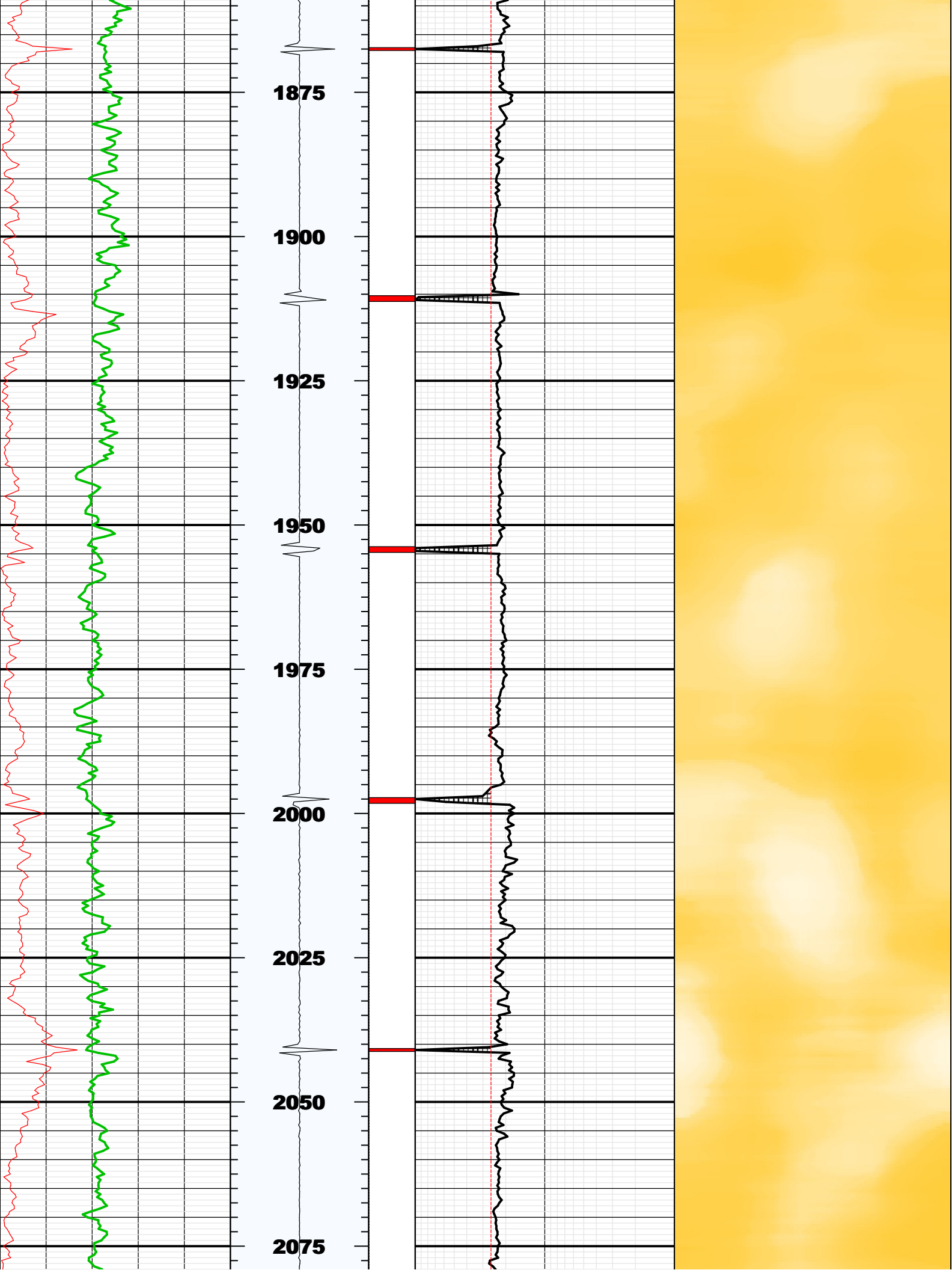


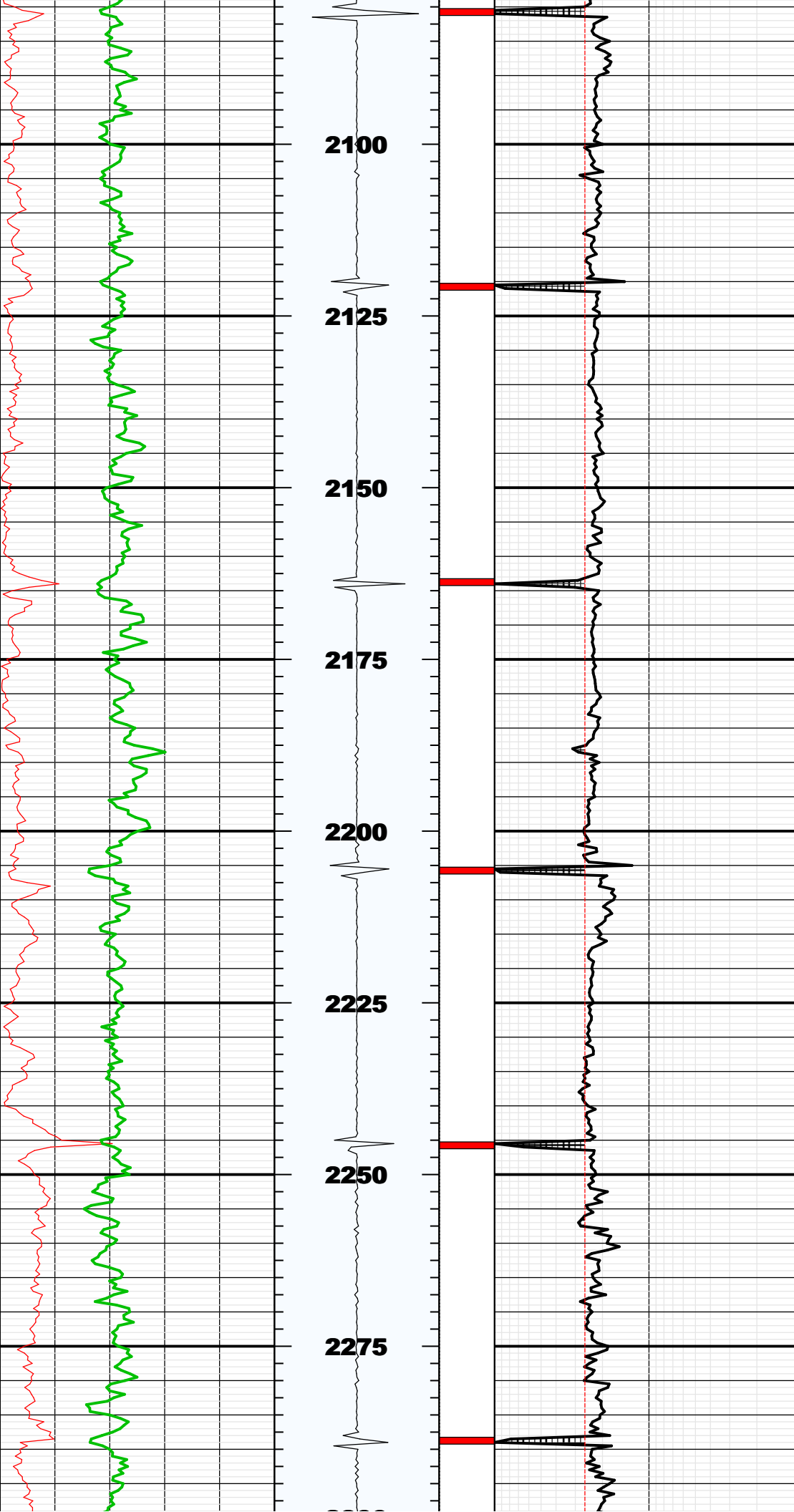




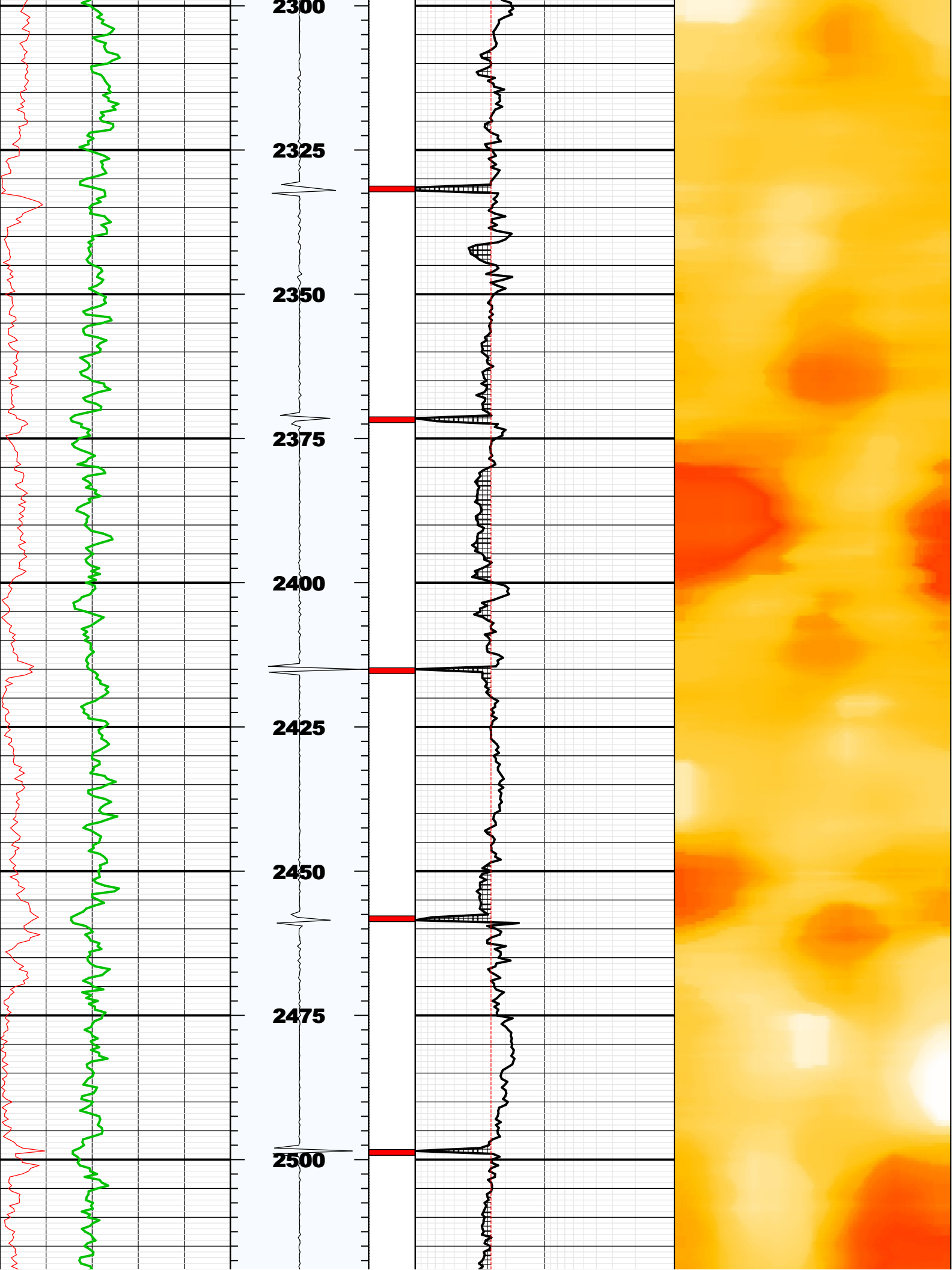


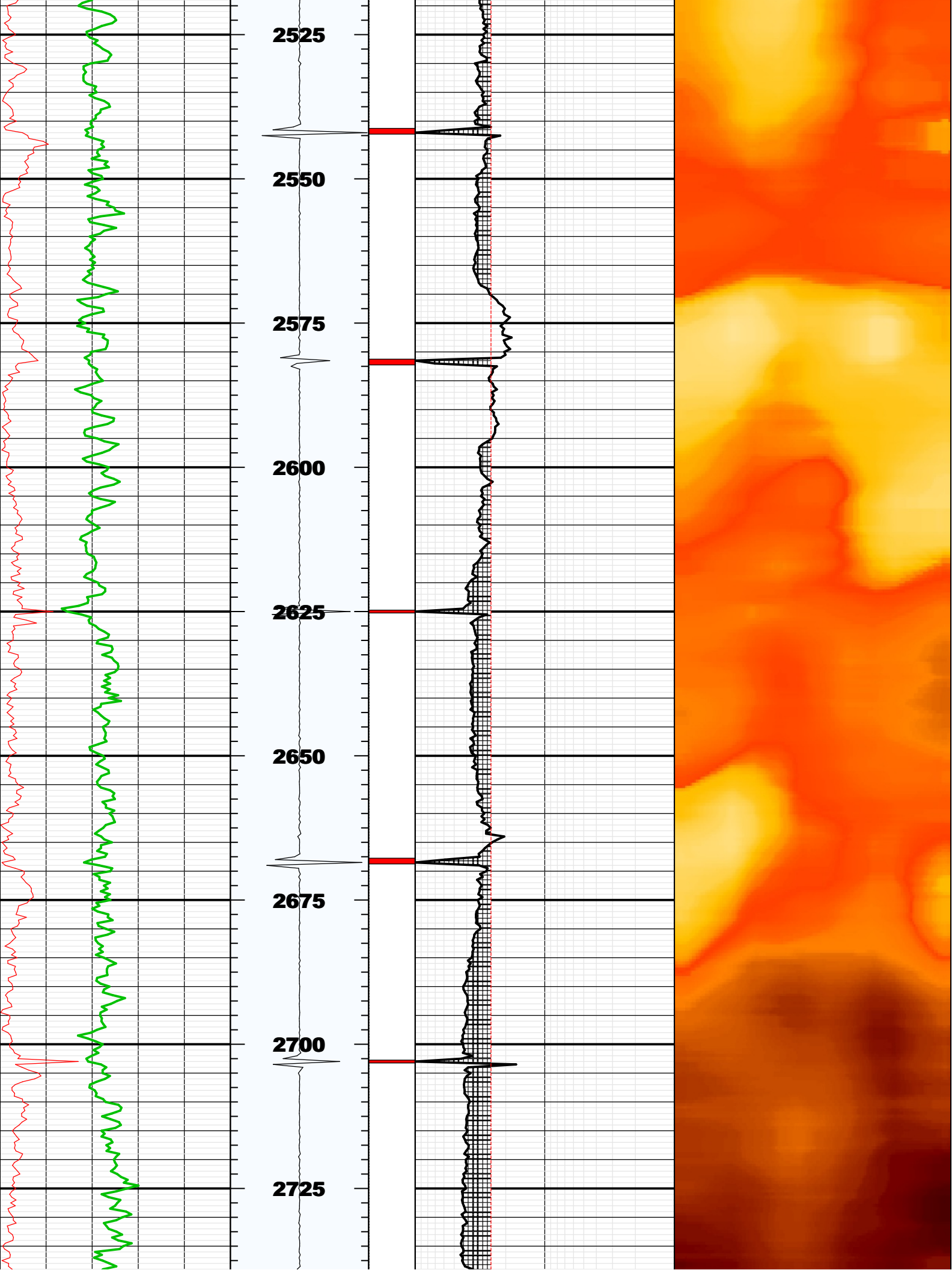


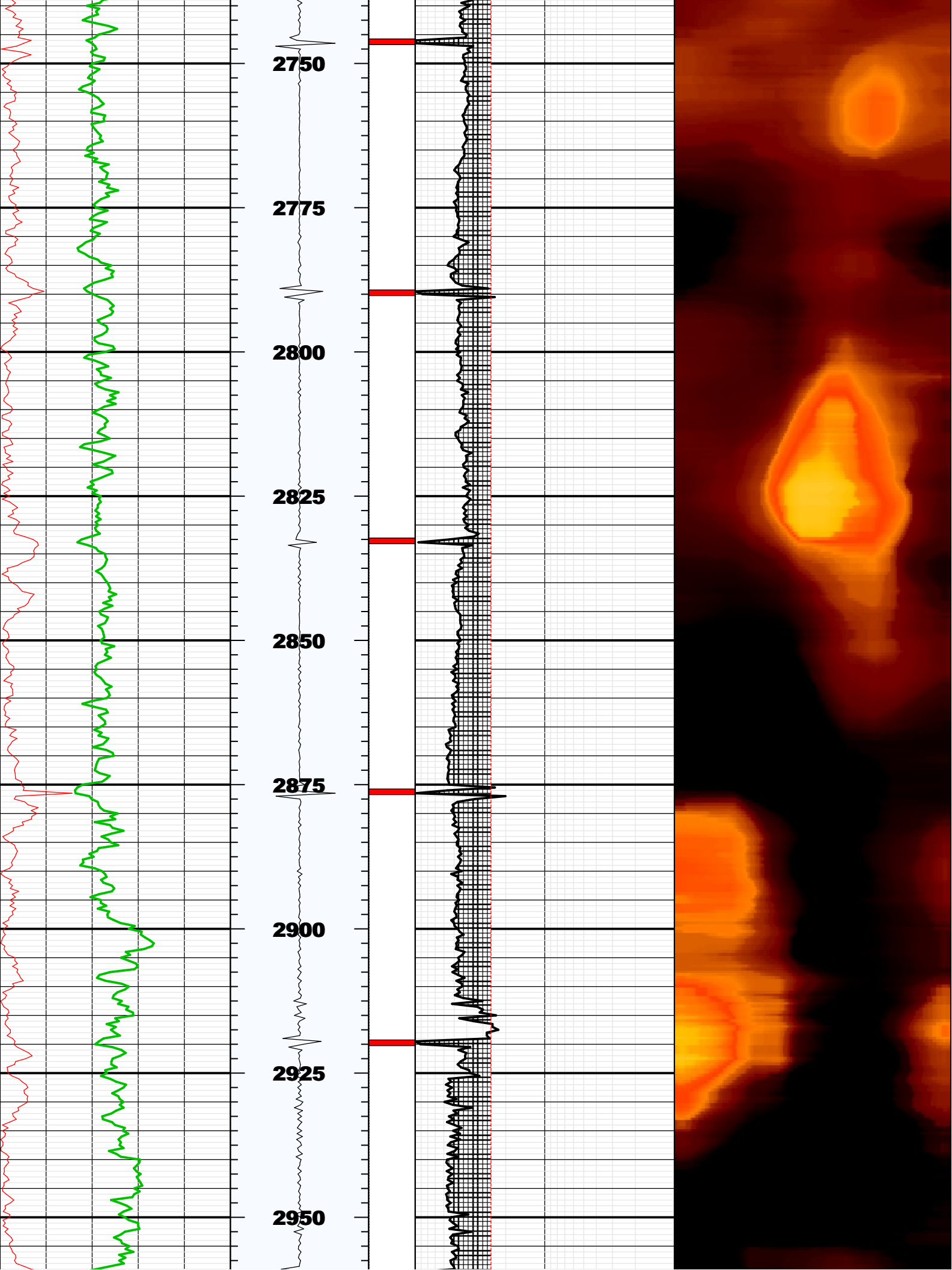




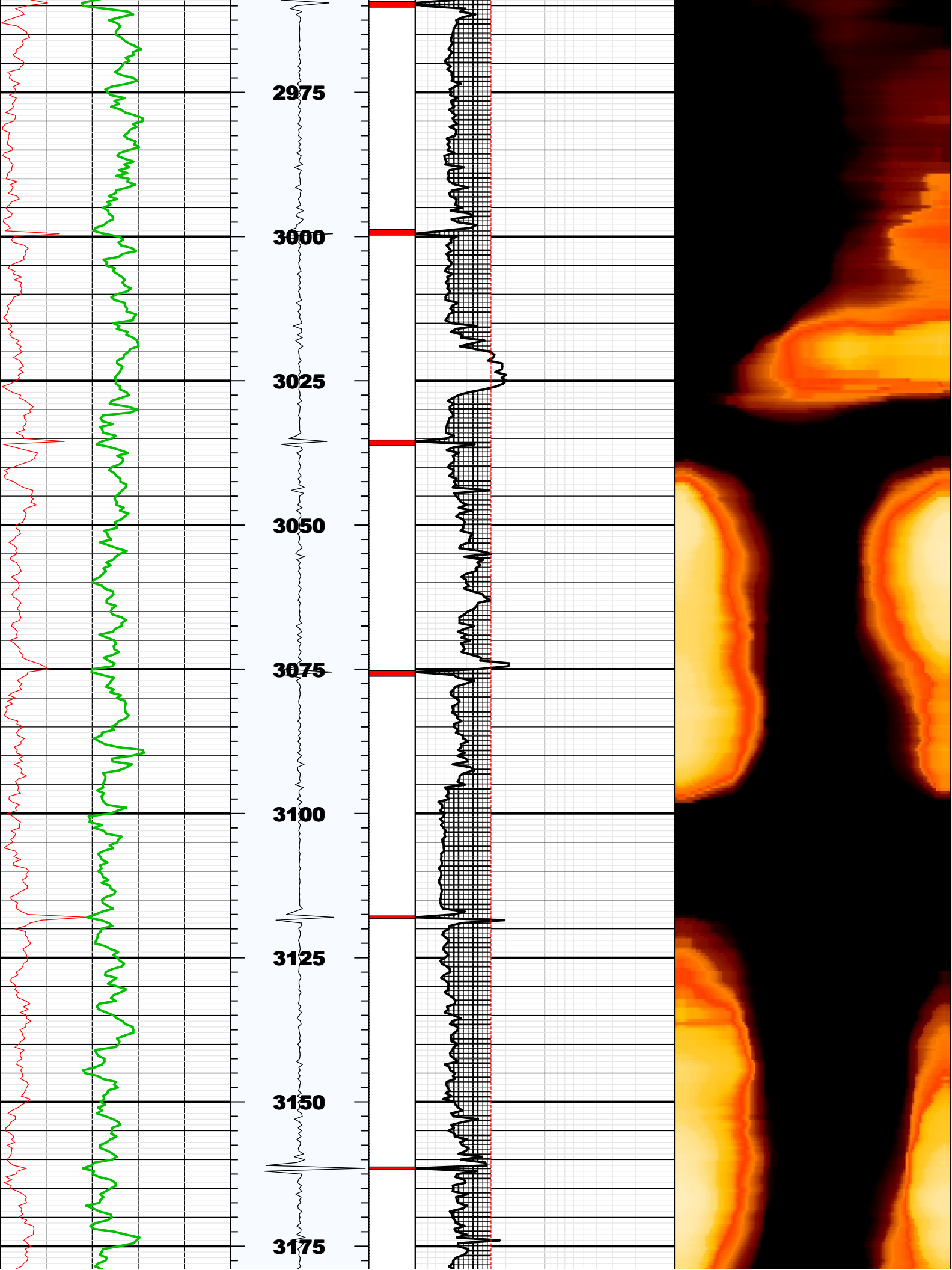


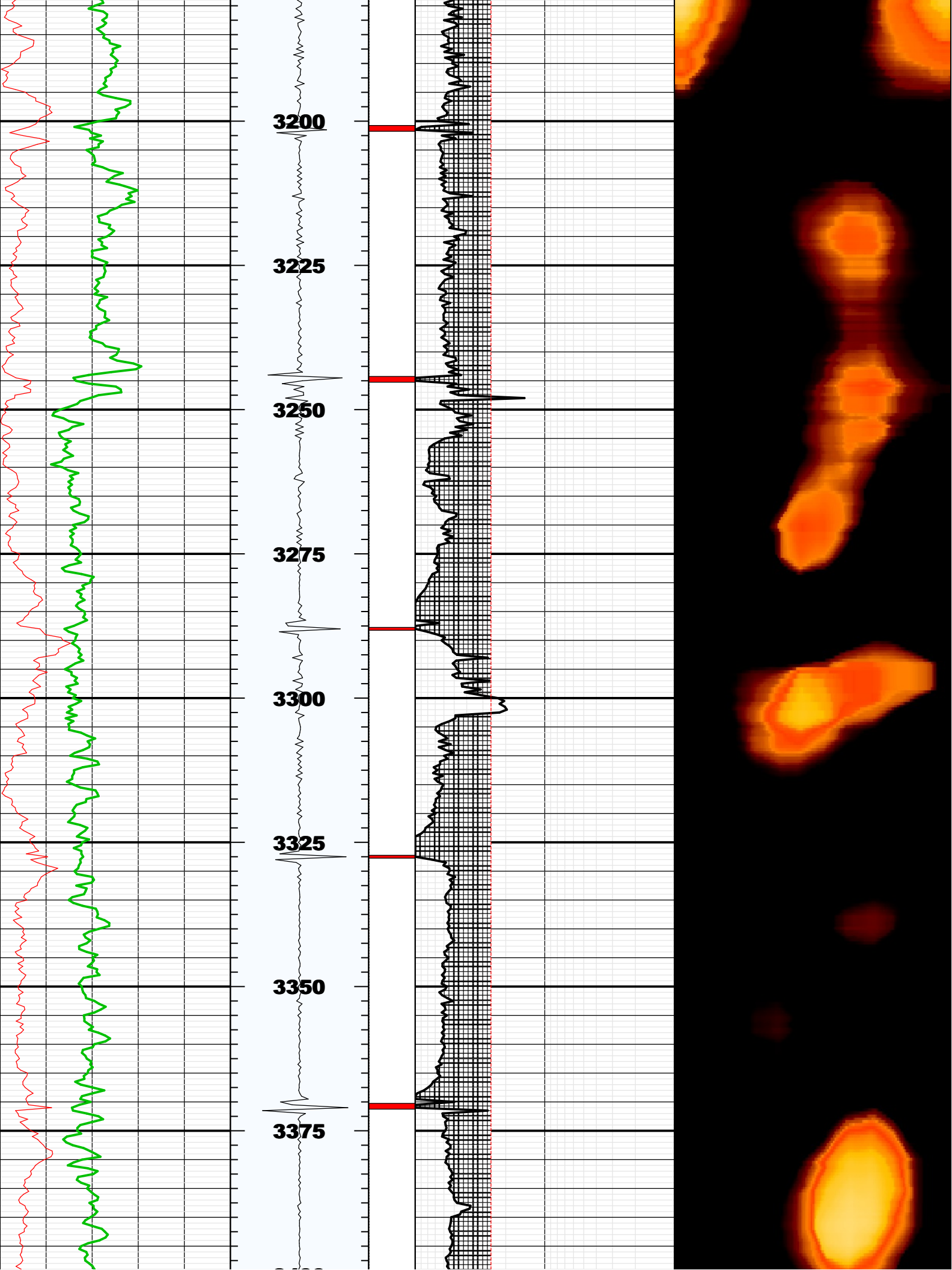


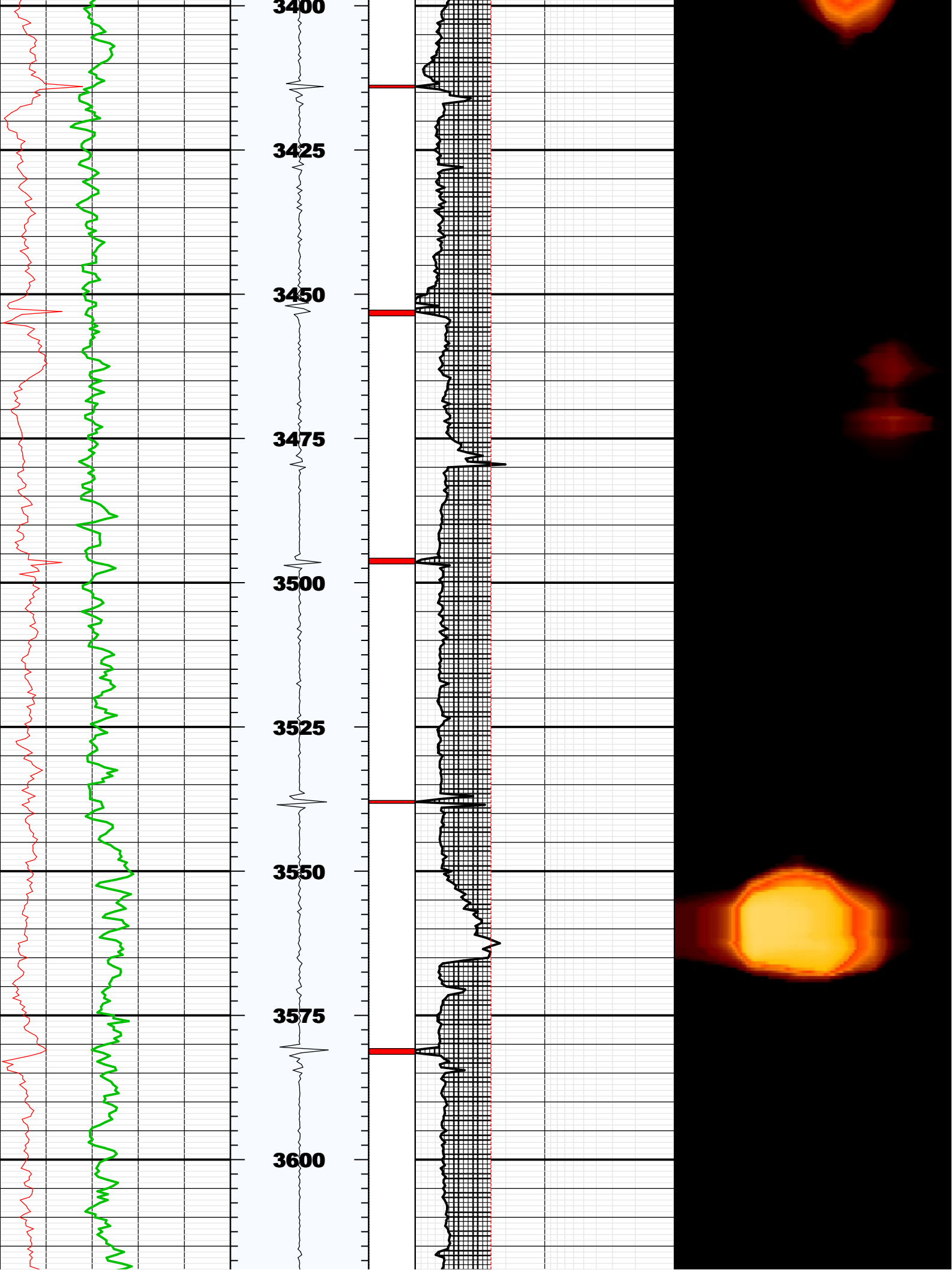


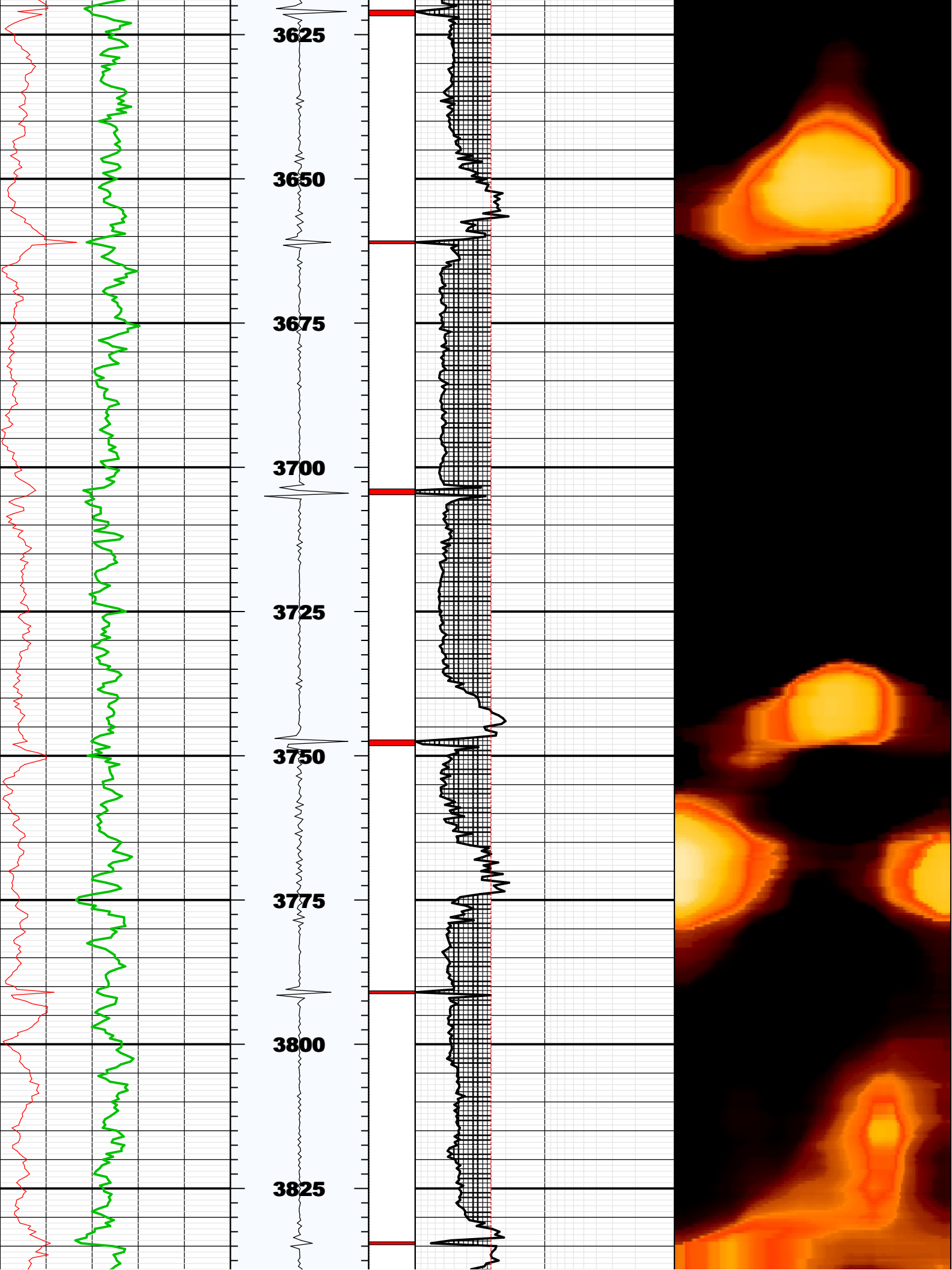


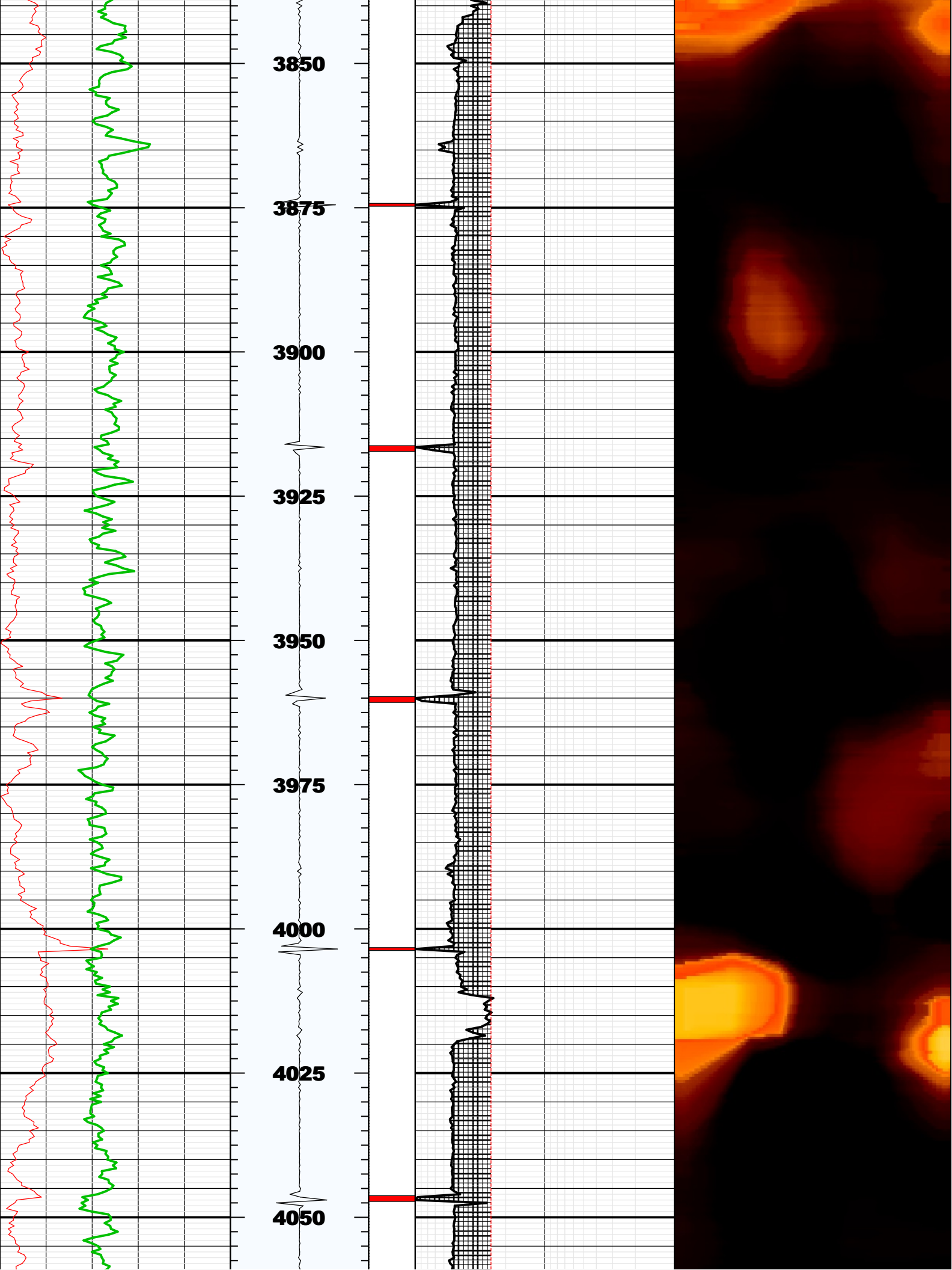




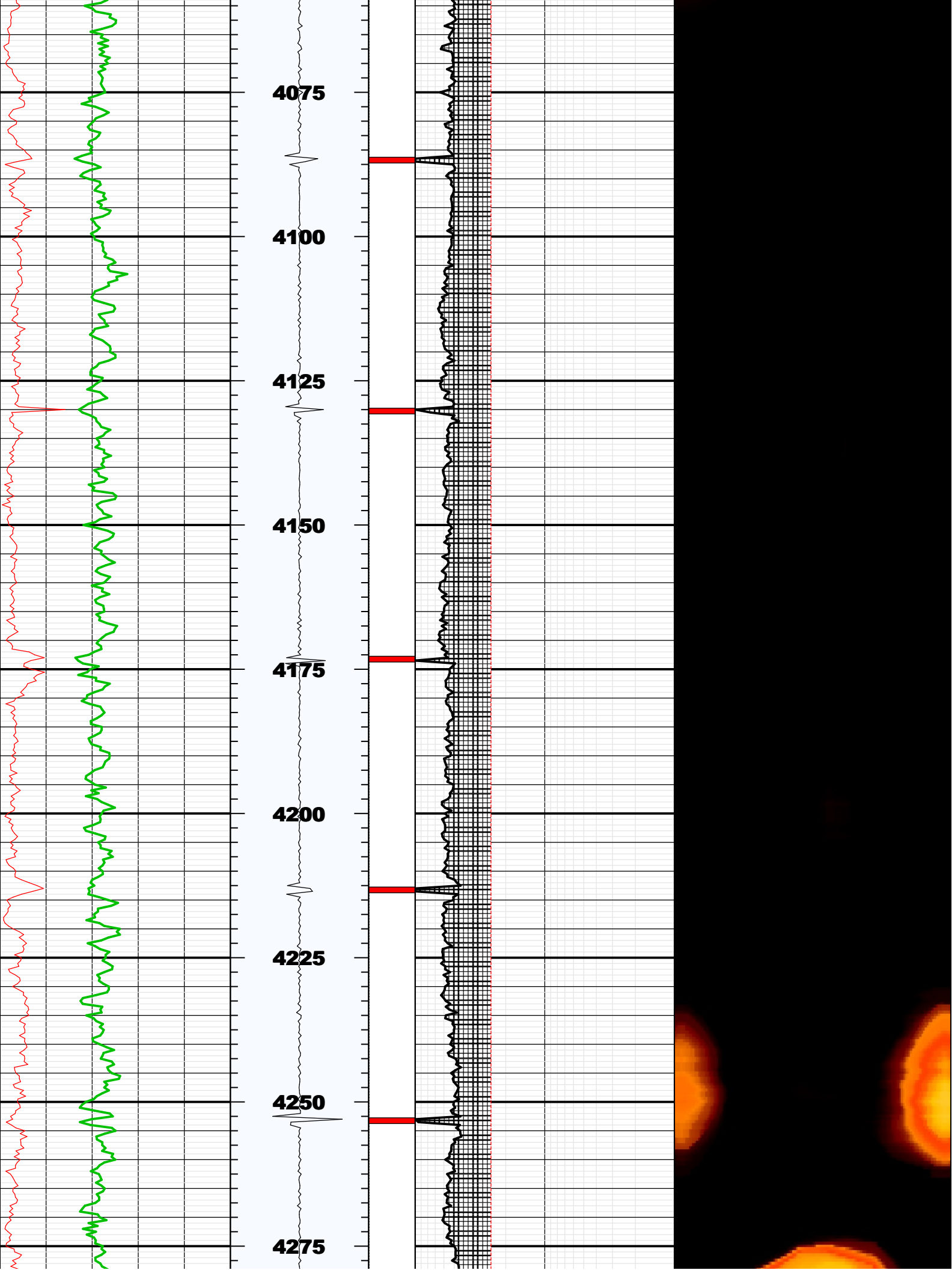


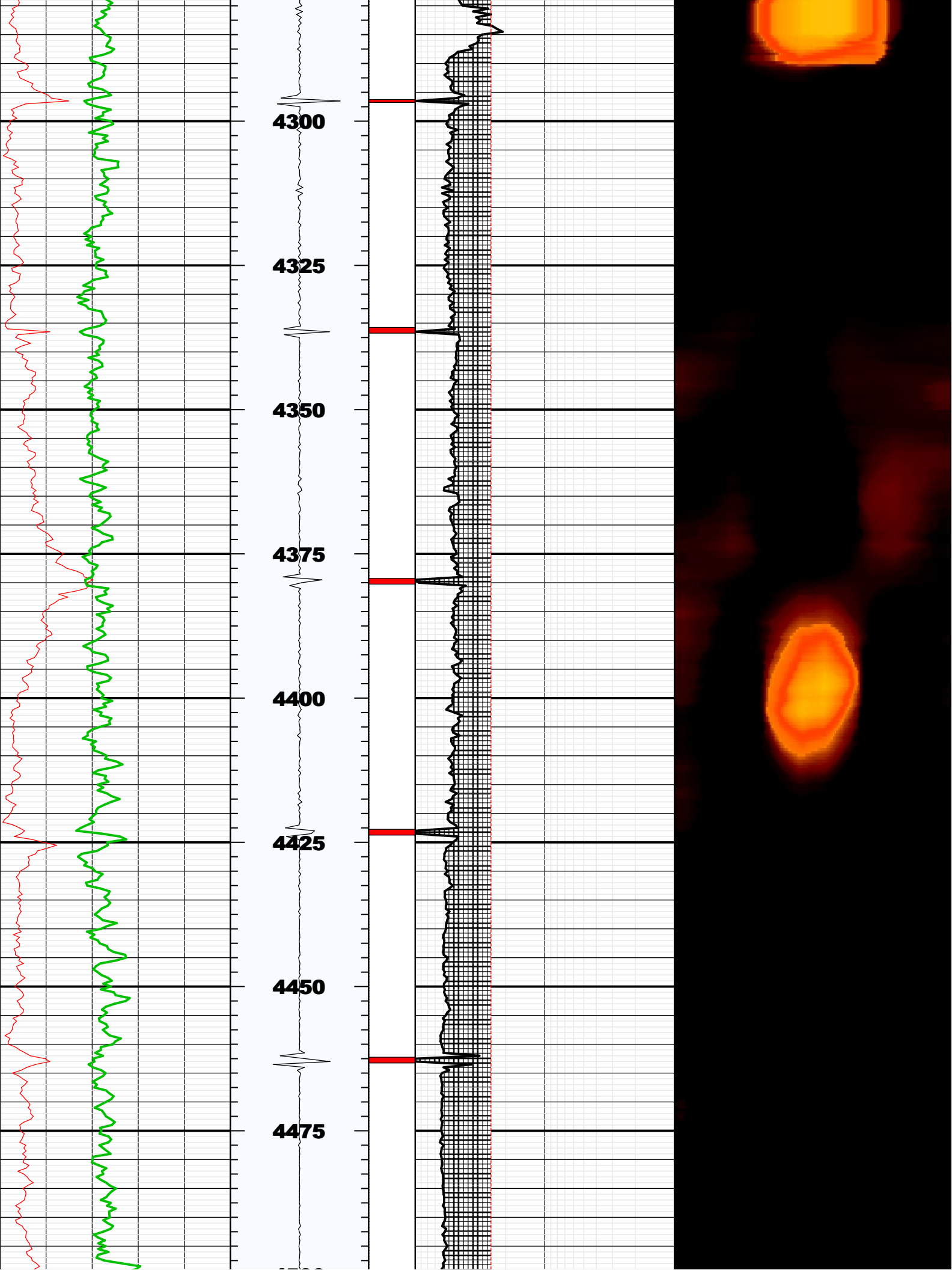


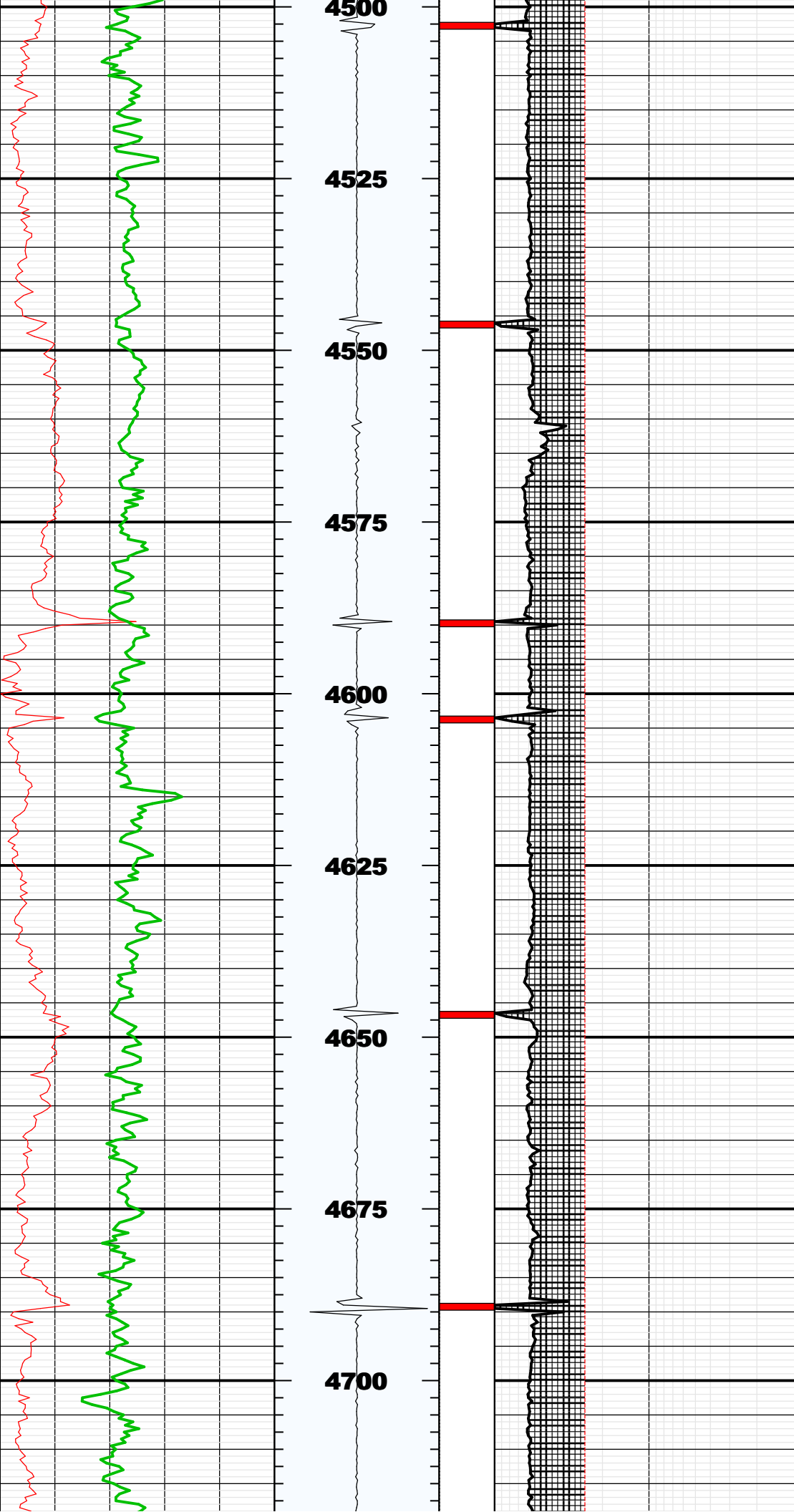




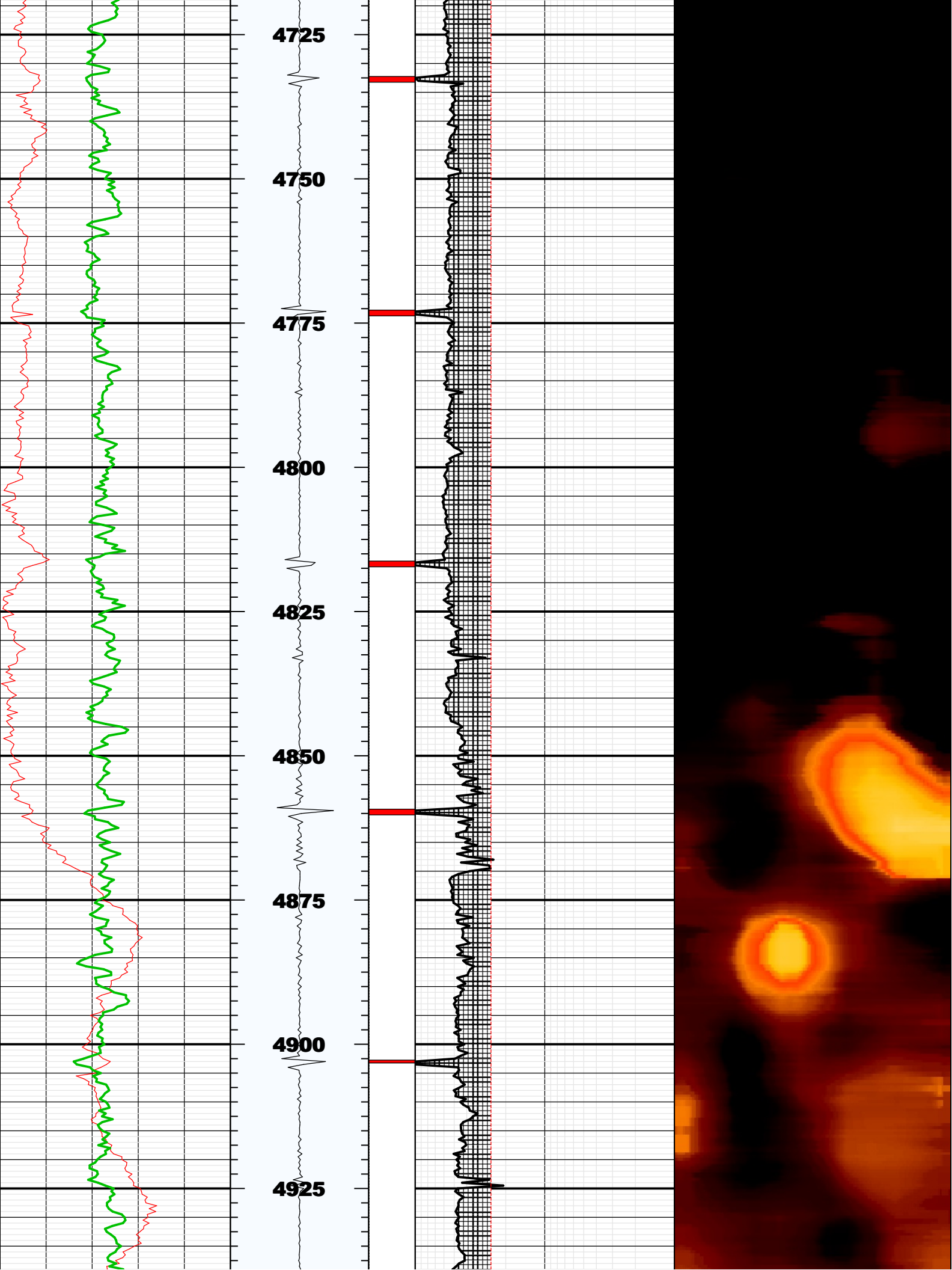


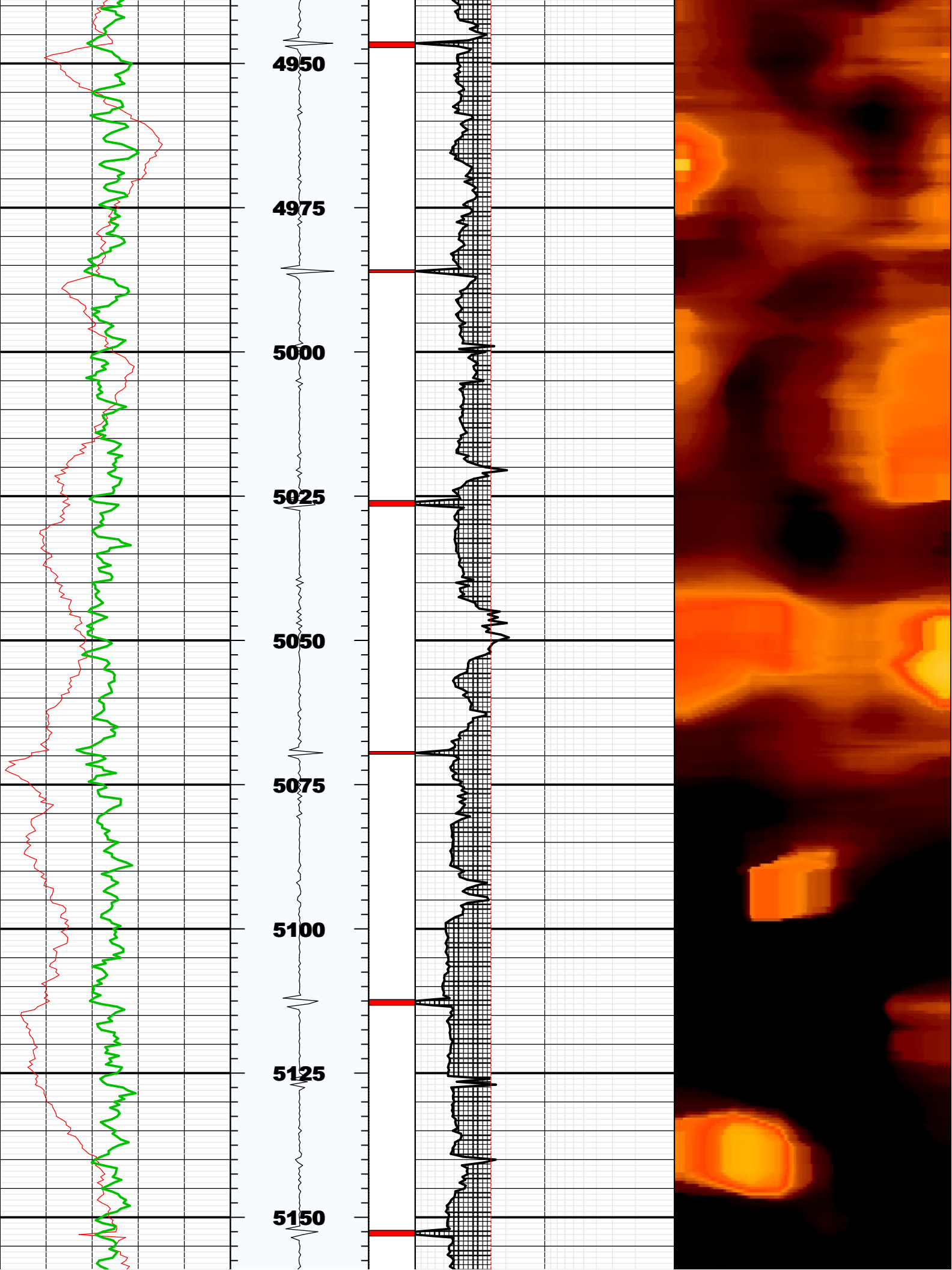


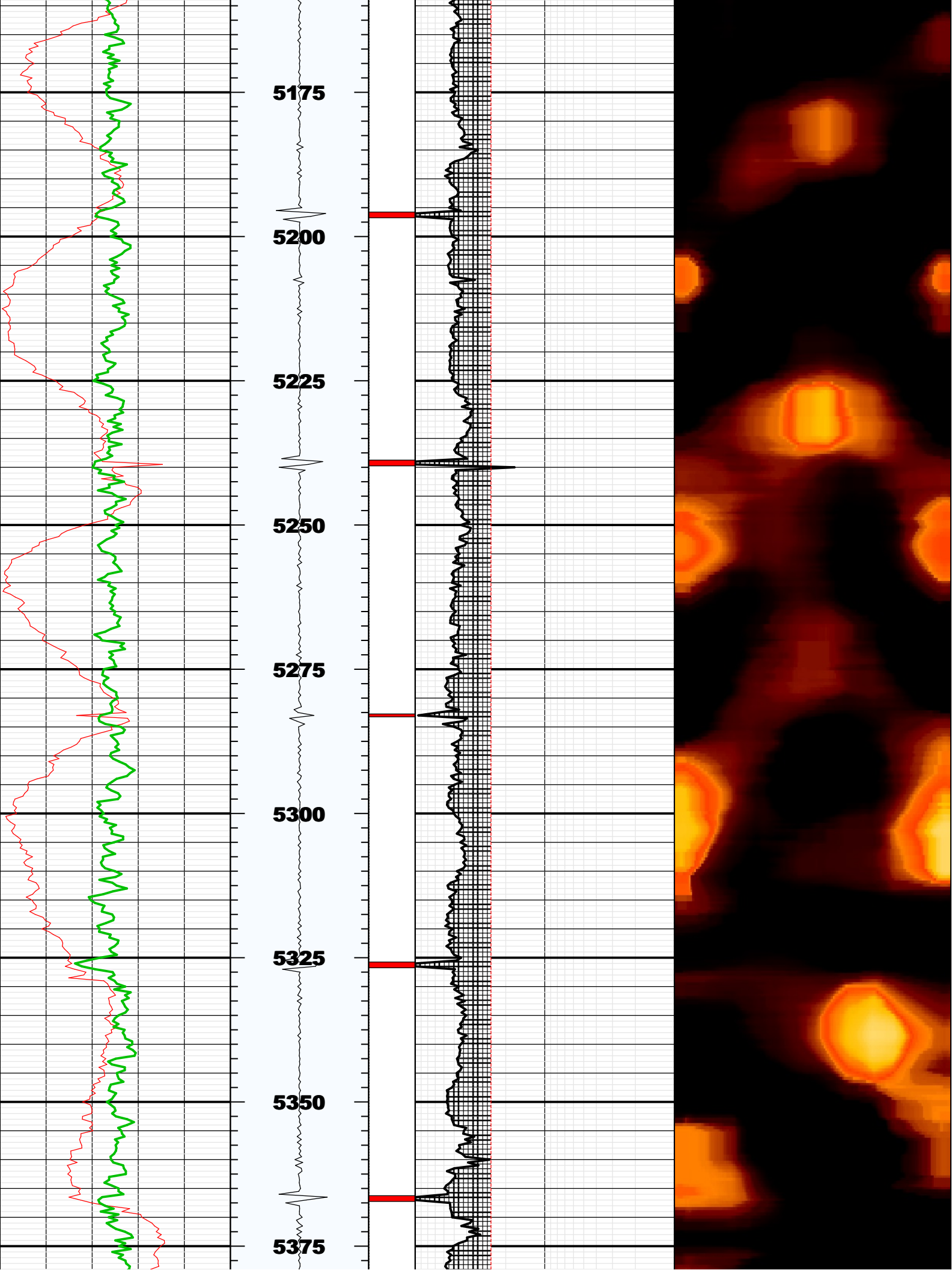


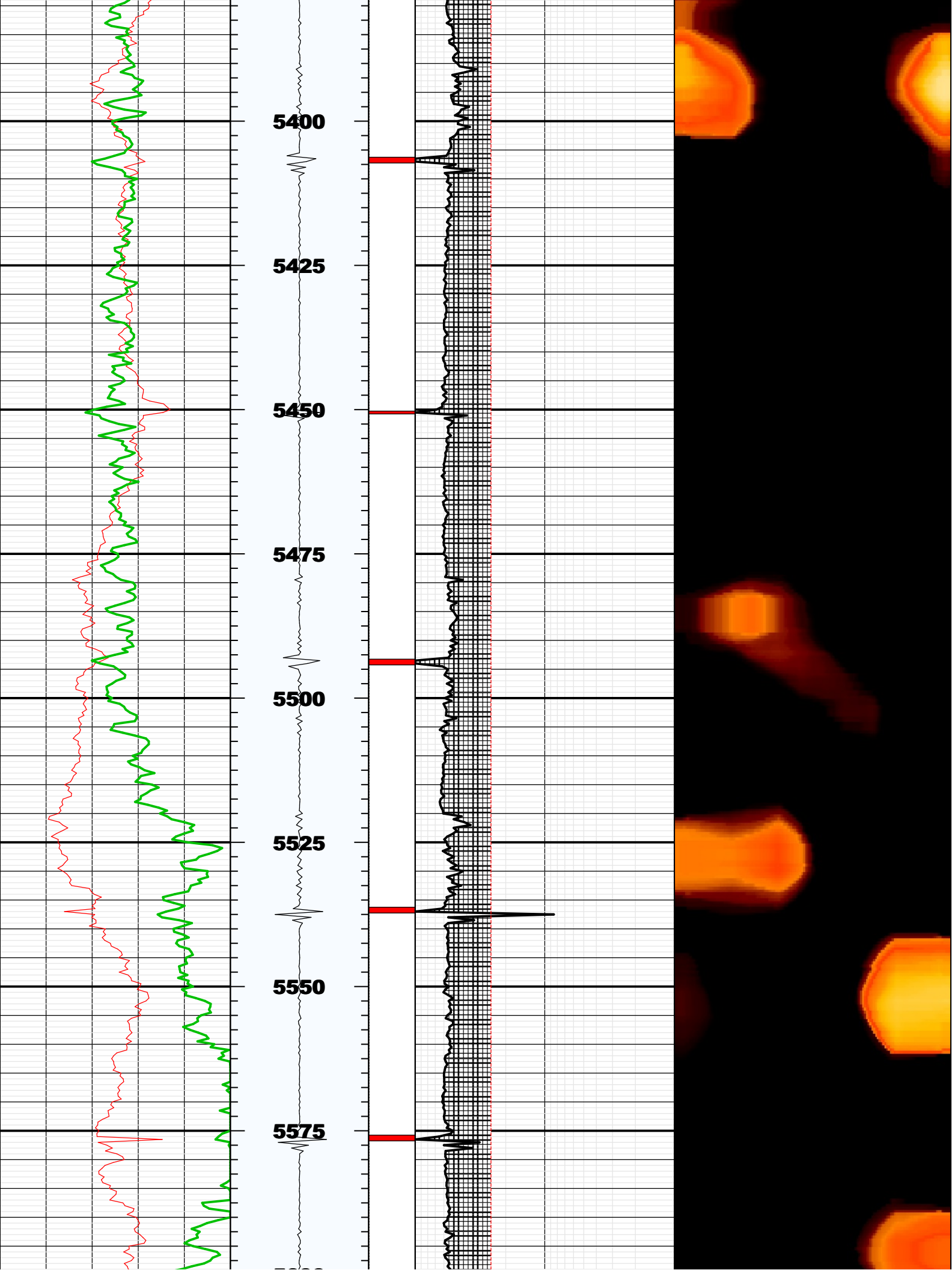




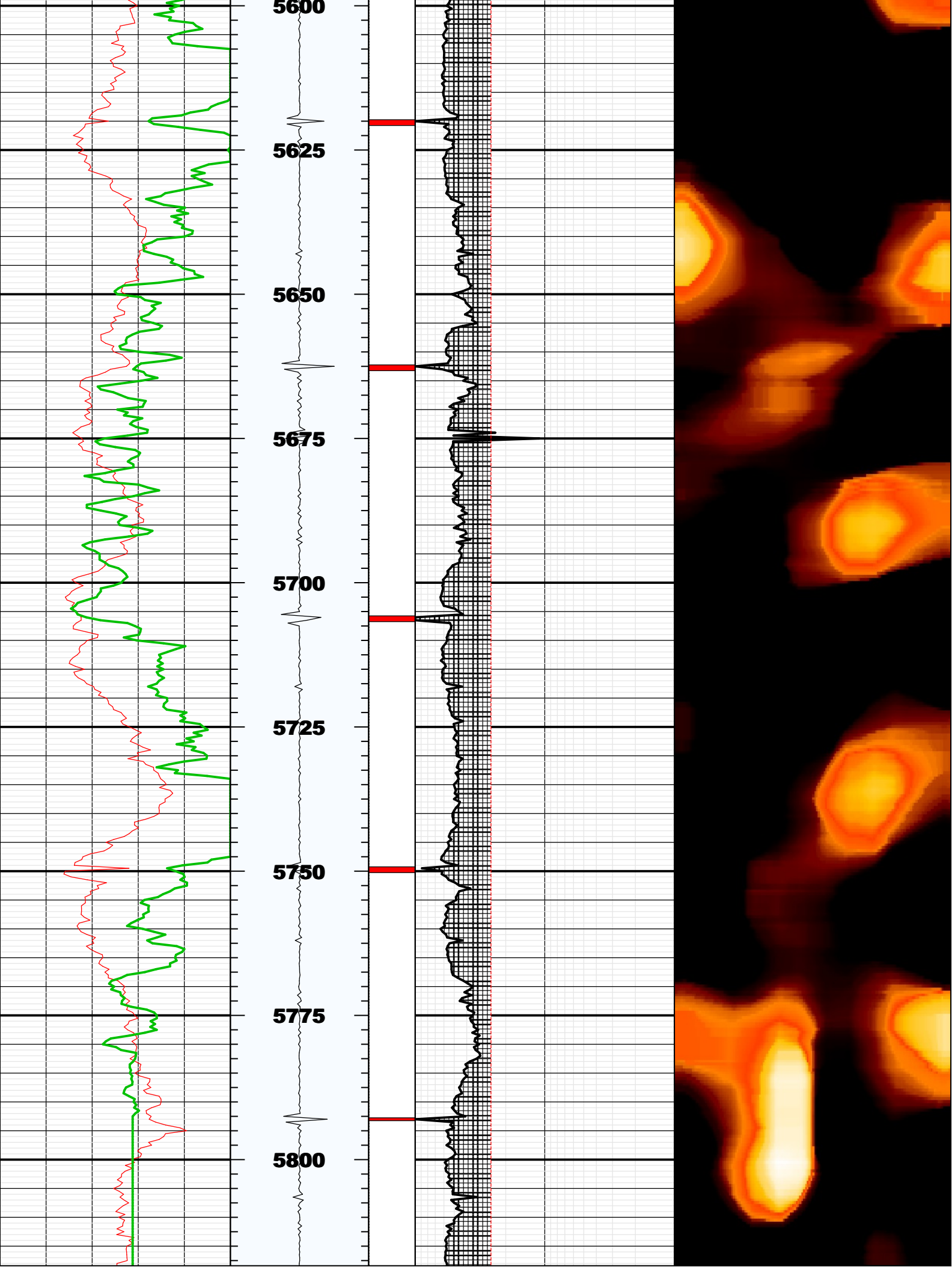








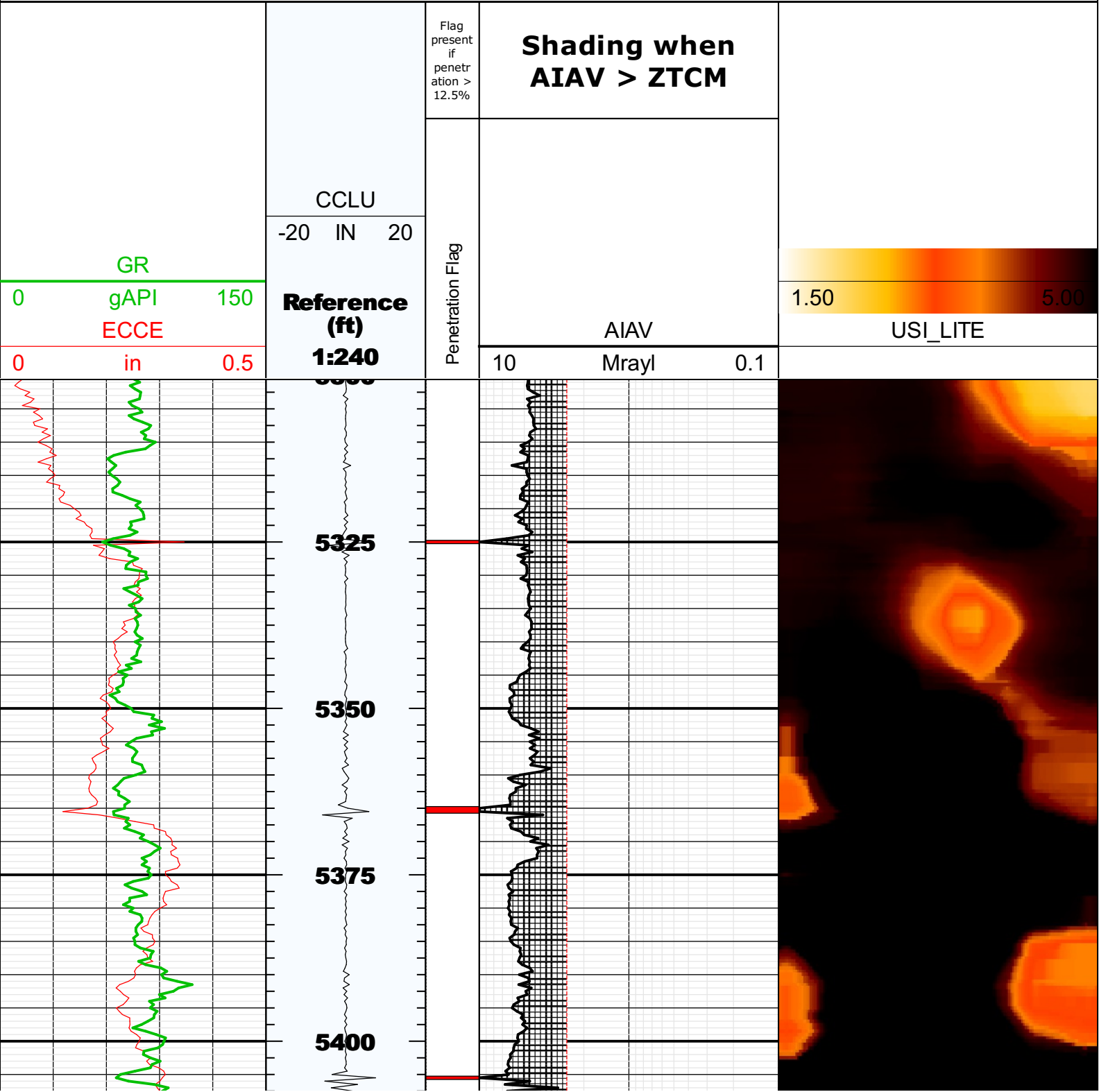


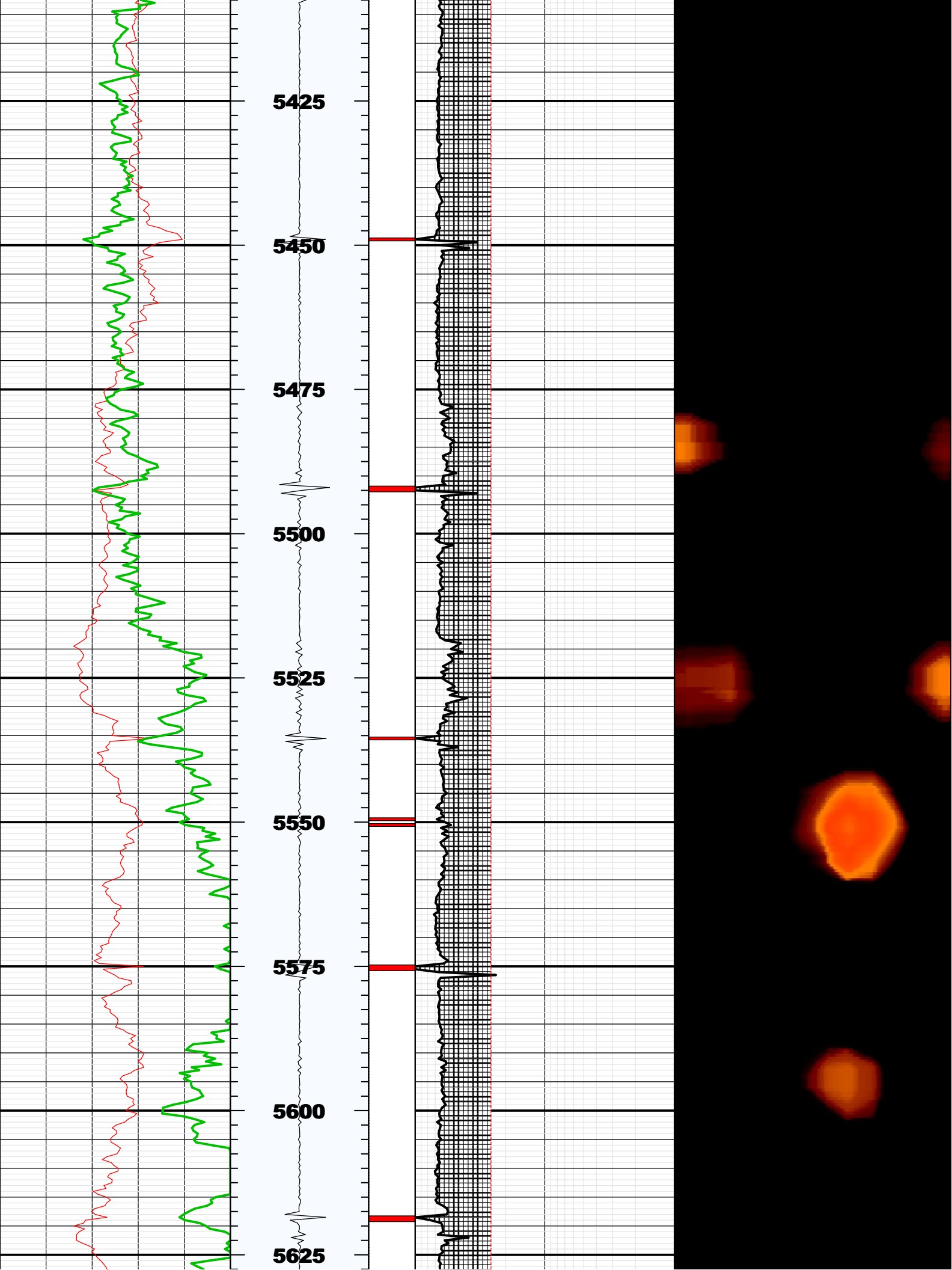


BS	8.75000	IN	Bit Size
CASG	N/A		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	206.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	65	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	1.76000	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

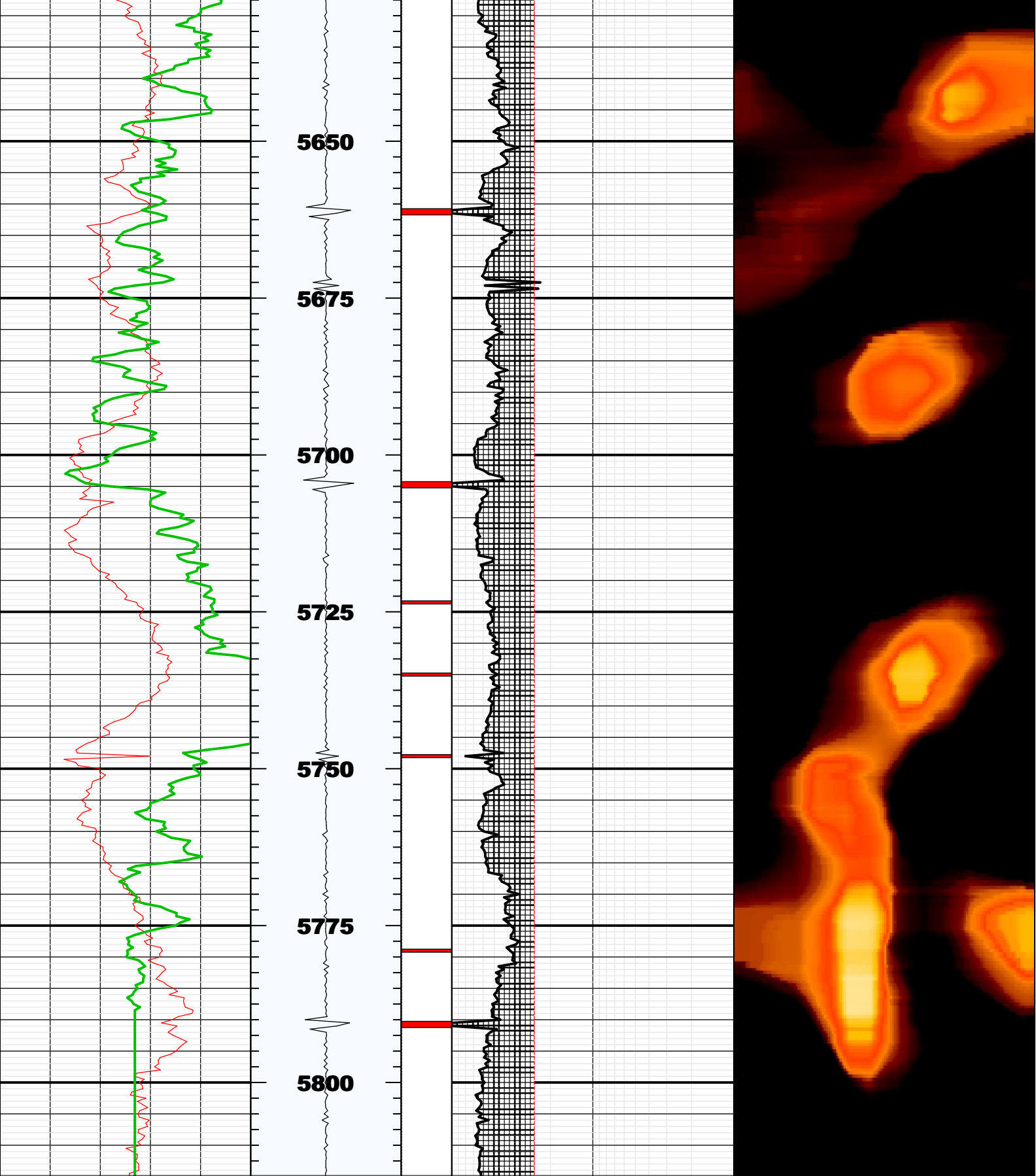
Repeat Pass

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## Fluid Properties Used for Main Pass

