

Company: Noble Energy Inc

Well: Rohn State LD03-64HN
Field: Wildcat
County: Weld State: Colorado

County: Weld		USI-LITE (2500 psi)	
Field: Wildcat			
Location: NESE Sec 4 T 9N R 58W			
Well: Rohn State LD03-64HN			
Company: Noble Energy Inc			
LOCATION			
Permanent Datum:		GL	
Log Measured From:		KB	
Drilling Measured From:		KB	
API Serial No.		Elev: K.B. 4725.0 F	
05-123-37457-0000		G.L. 4701.0 F	
Section 4		D.F. 4723.9 F	
Township 9N		Range 58W	
Logging Date	14-Oct-2014		
Run Number	Run 1		
Depth Driller	5988.0 F		
Schlumberger Depth	5780.0 F		
Bottom Log Interval	5780.0 F		
Top Log Interval	50.0 F		
Casing Fluid Level	8.0 F		
Salinity			
Density	8.70 LB/G		
Fluid Level	8.0 F		
BIT/CASING/TUBING STRING			
Bit Size	8.750 IN		
To	1236.0 F		
Casing Size	5780.0 F		
Weight	7.00 IN		
Grade	26.00 LB/F		
From	P110		
To	24.0 F		
Max Recorded Temp	5978.0 F		
Logger on bottom (date)	176.4		
Location	14-Oct-2014		
Recorded By	Ft Morgan CO		
Witnessed By	MK Henrikson/K Ondrus		

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 turned spacer 12.5 PPG lead cement 13.0 PPG tail cement.

0 PSI repeat pass and 2500 PSI main pass.

Estimated TOC @ 1050'. Expected TOC @ 1000'.

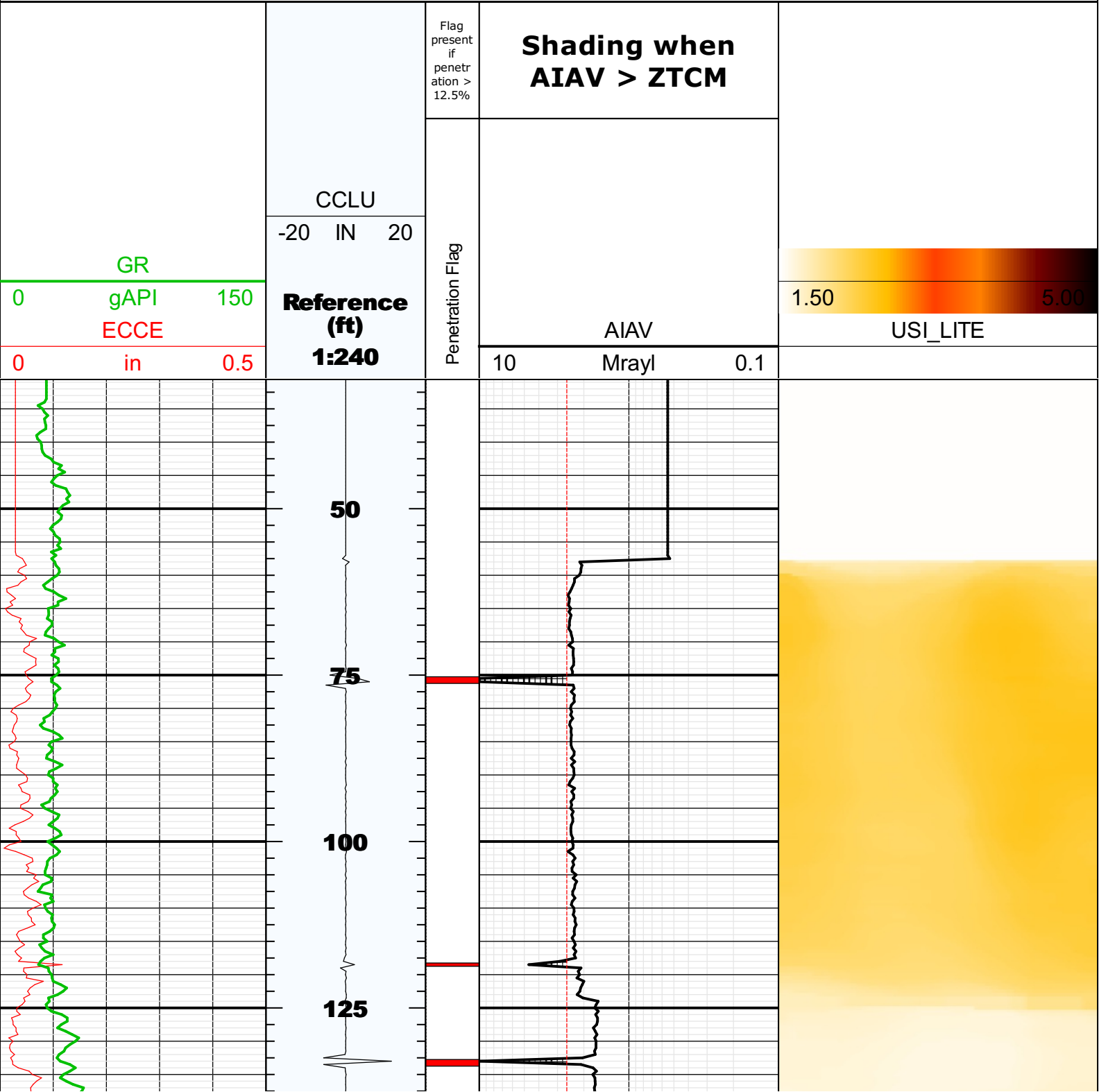
Top of 4.5 liner at 5780.5'

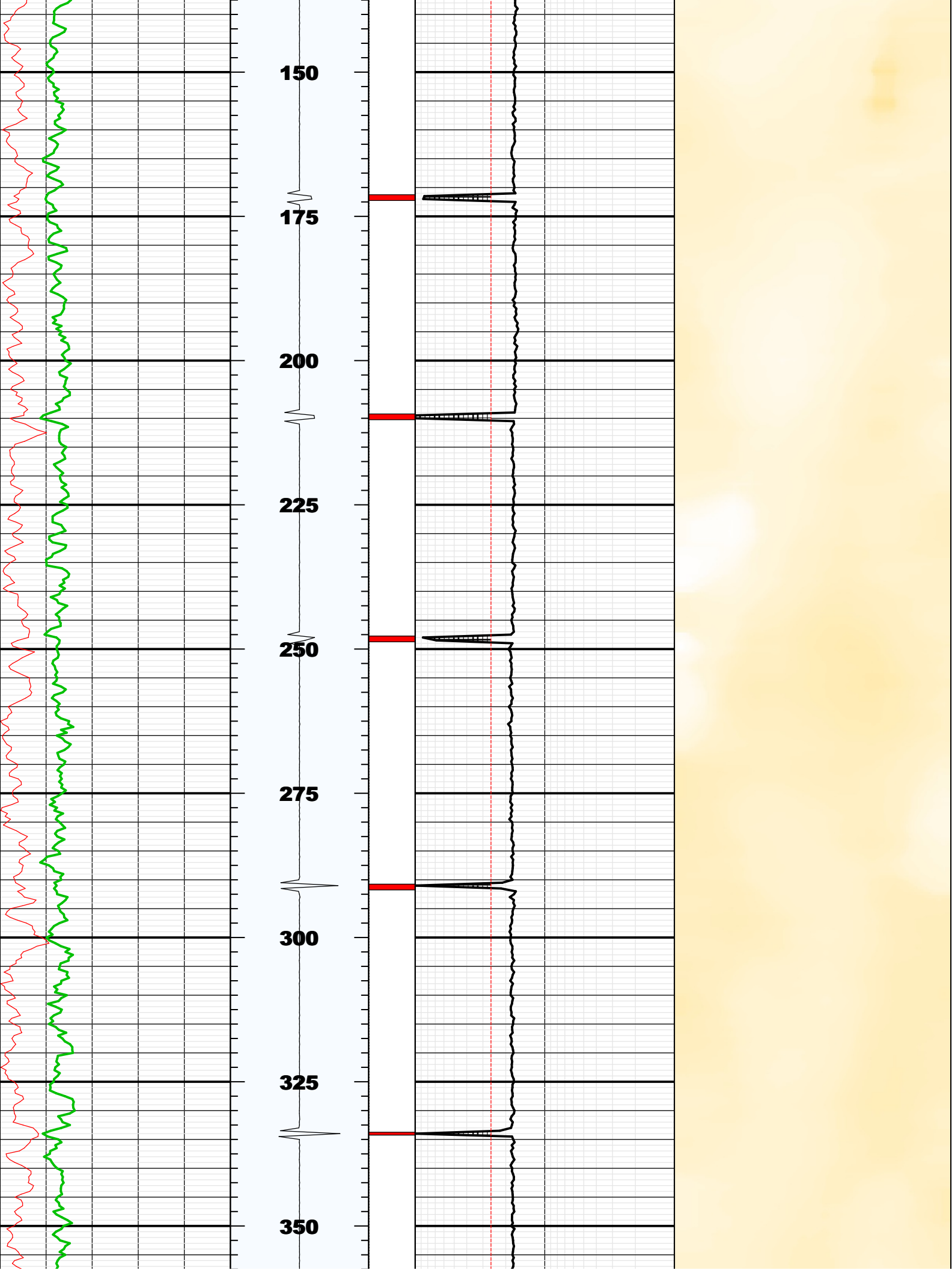
Bottom log interval at 5770'.

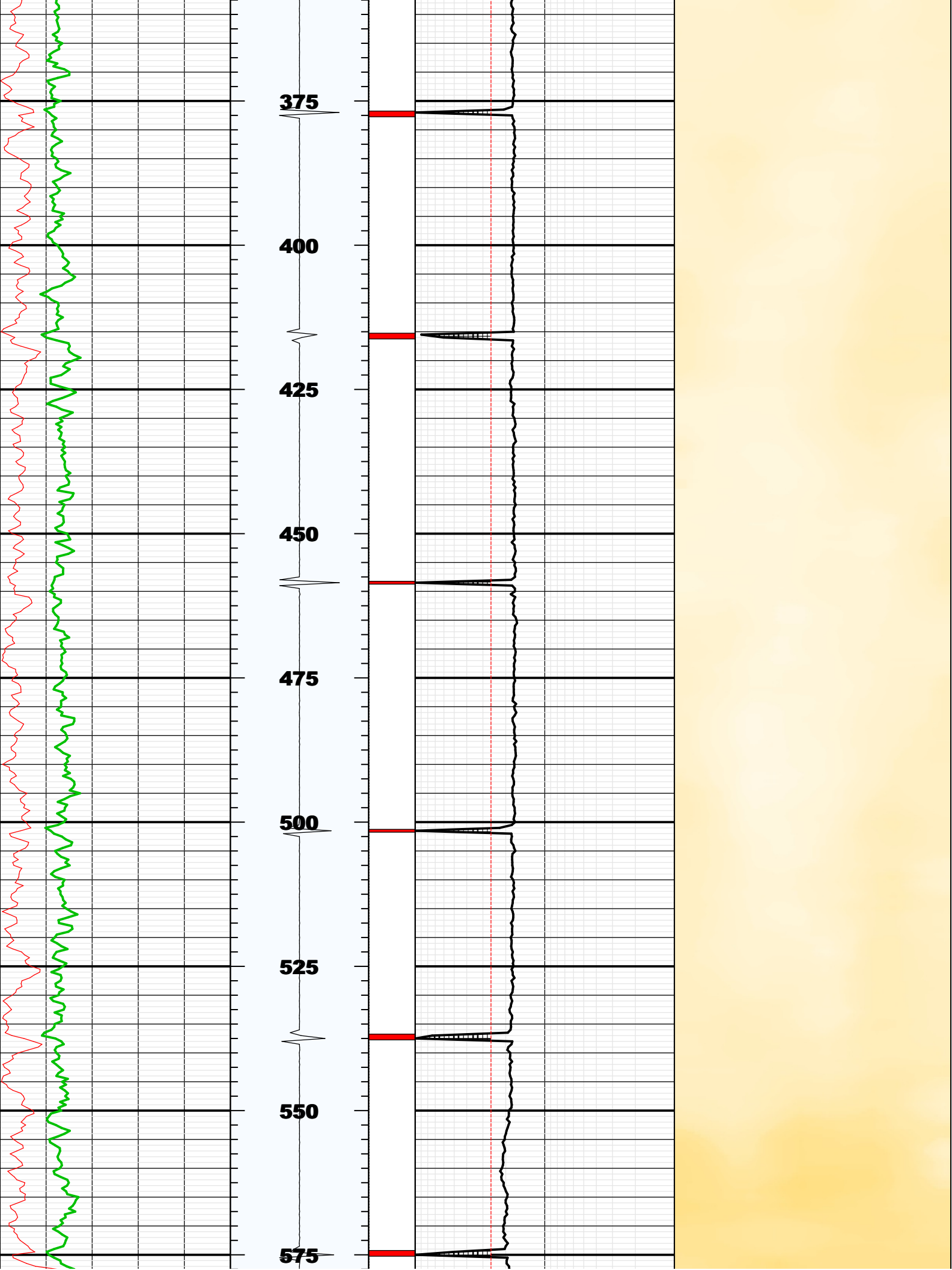
Bottom hole temperature was 176.48 degF.

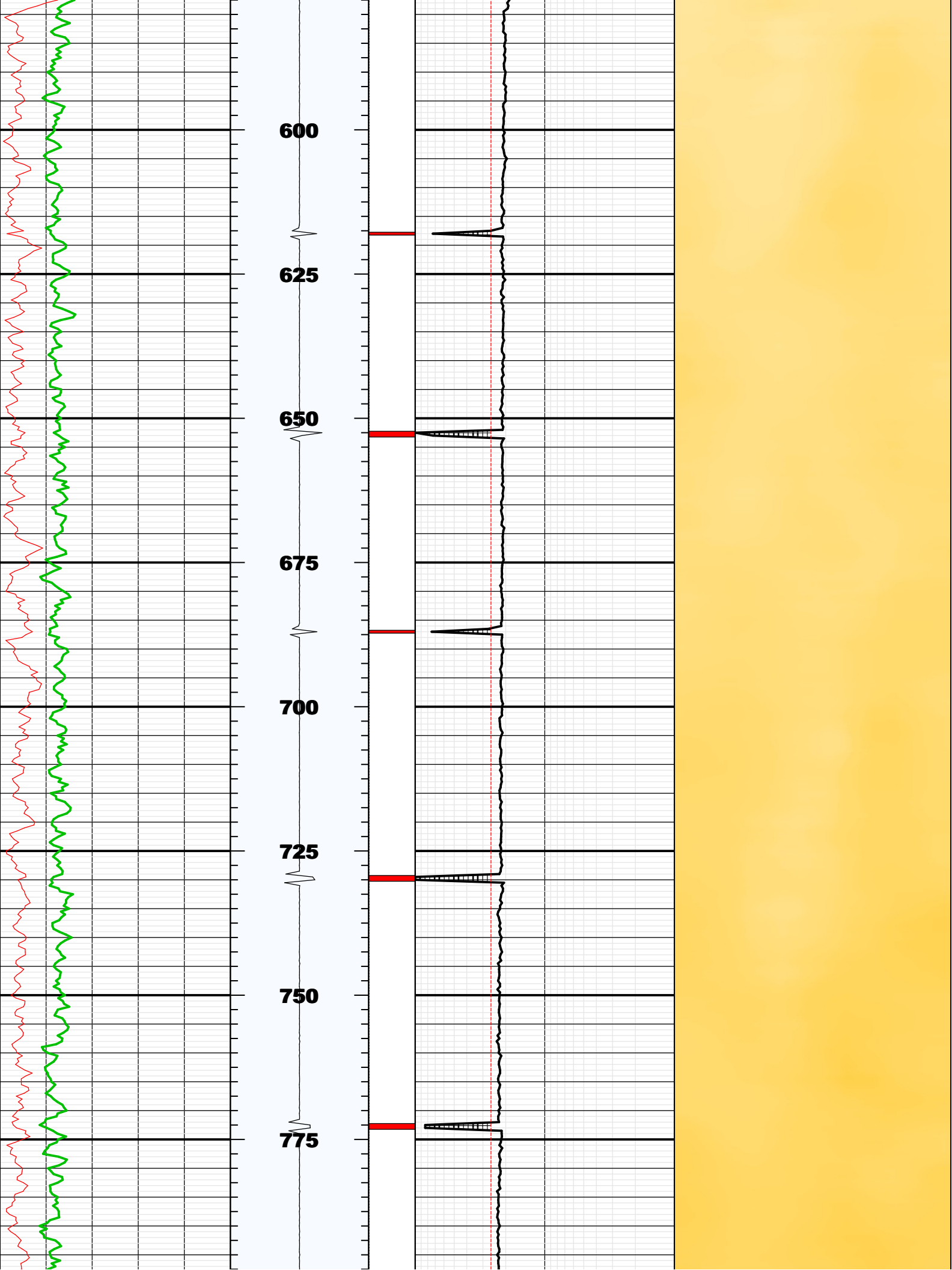
Main Pass

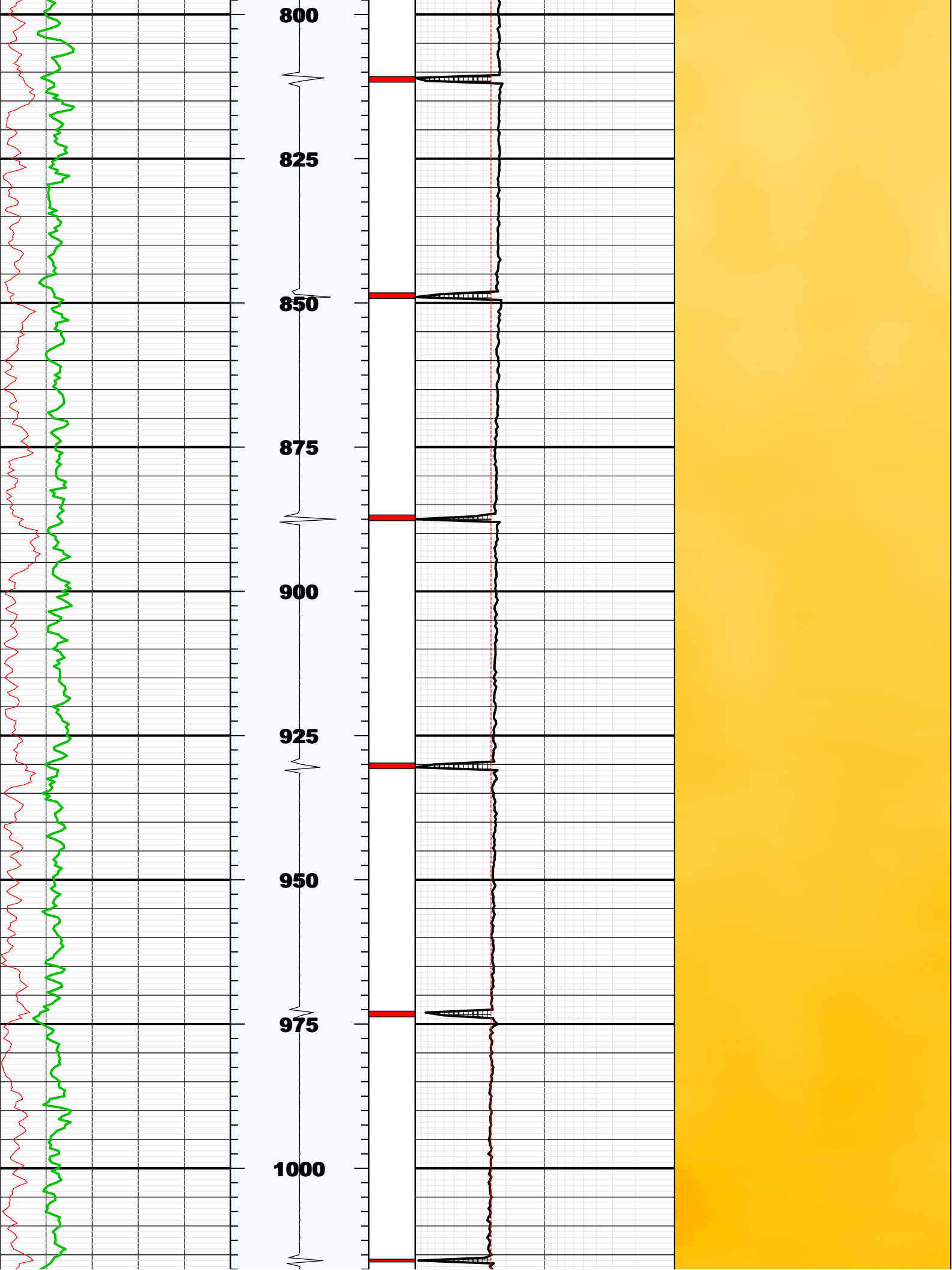
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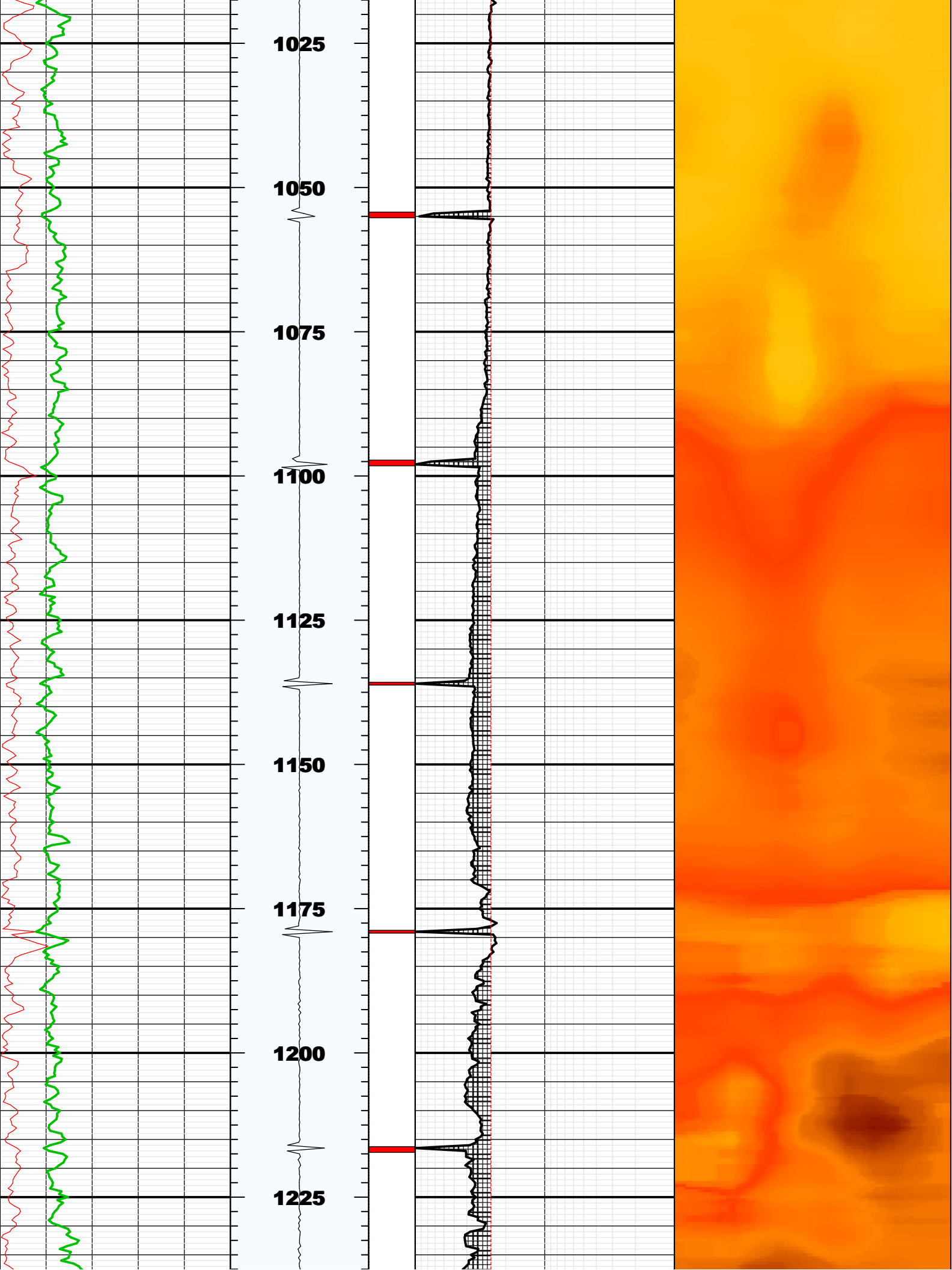


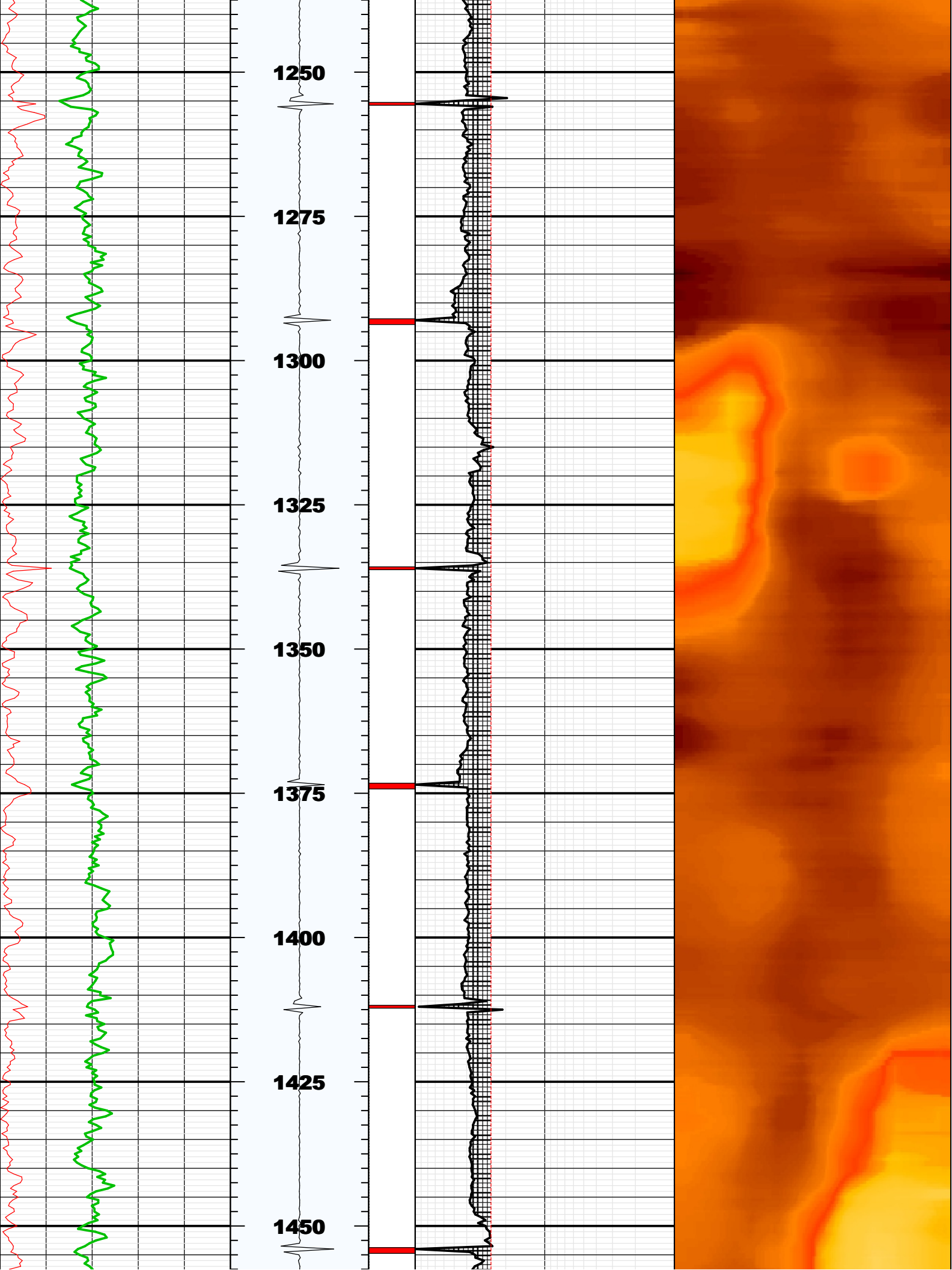


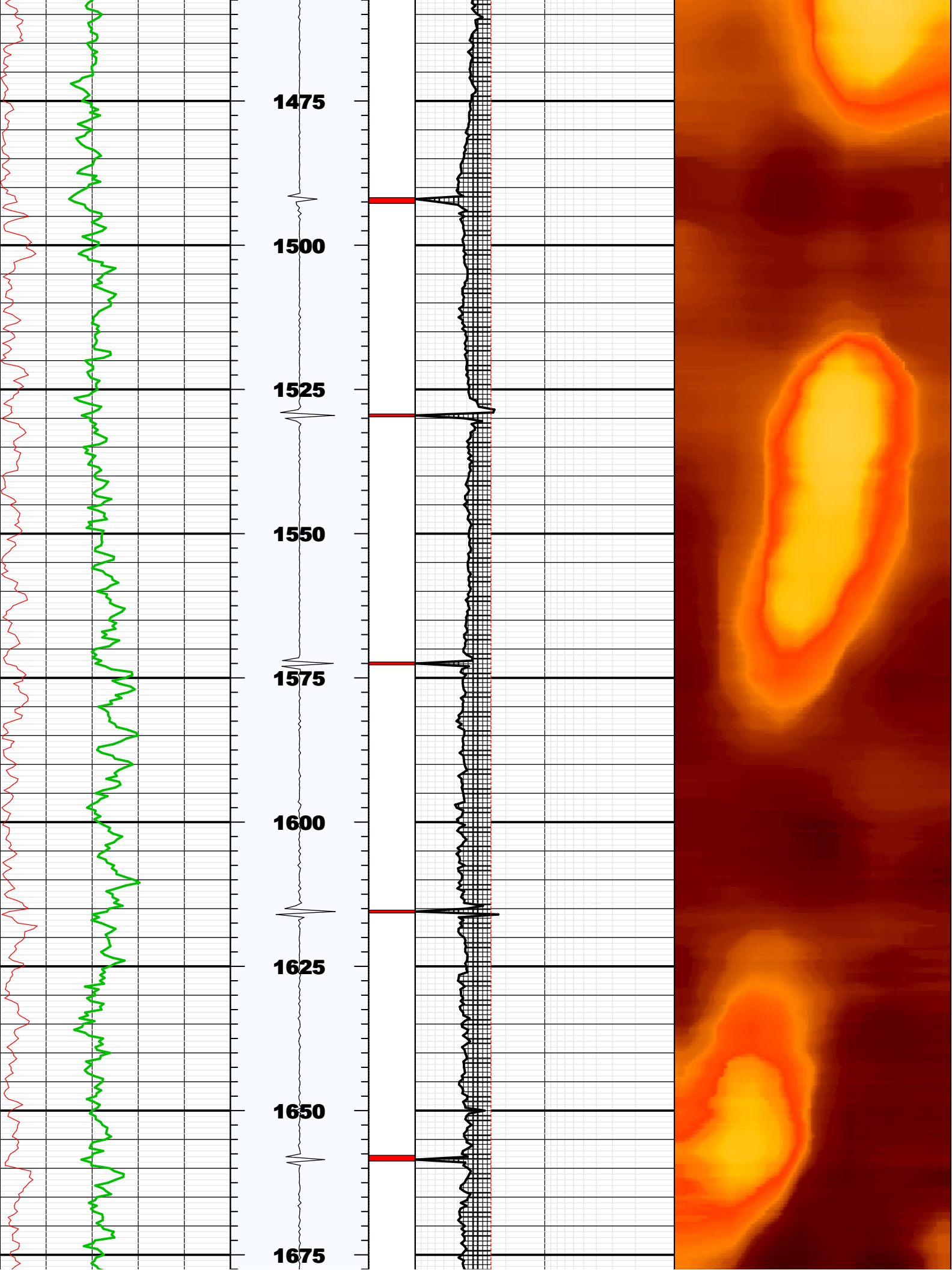


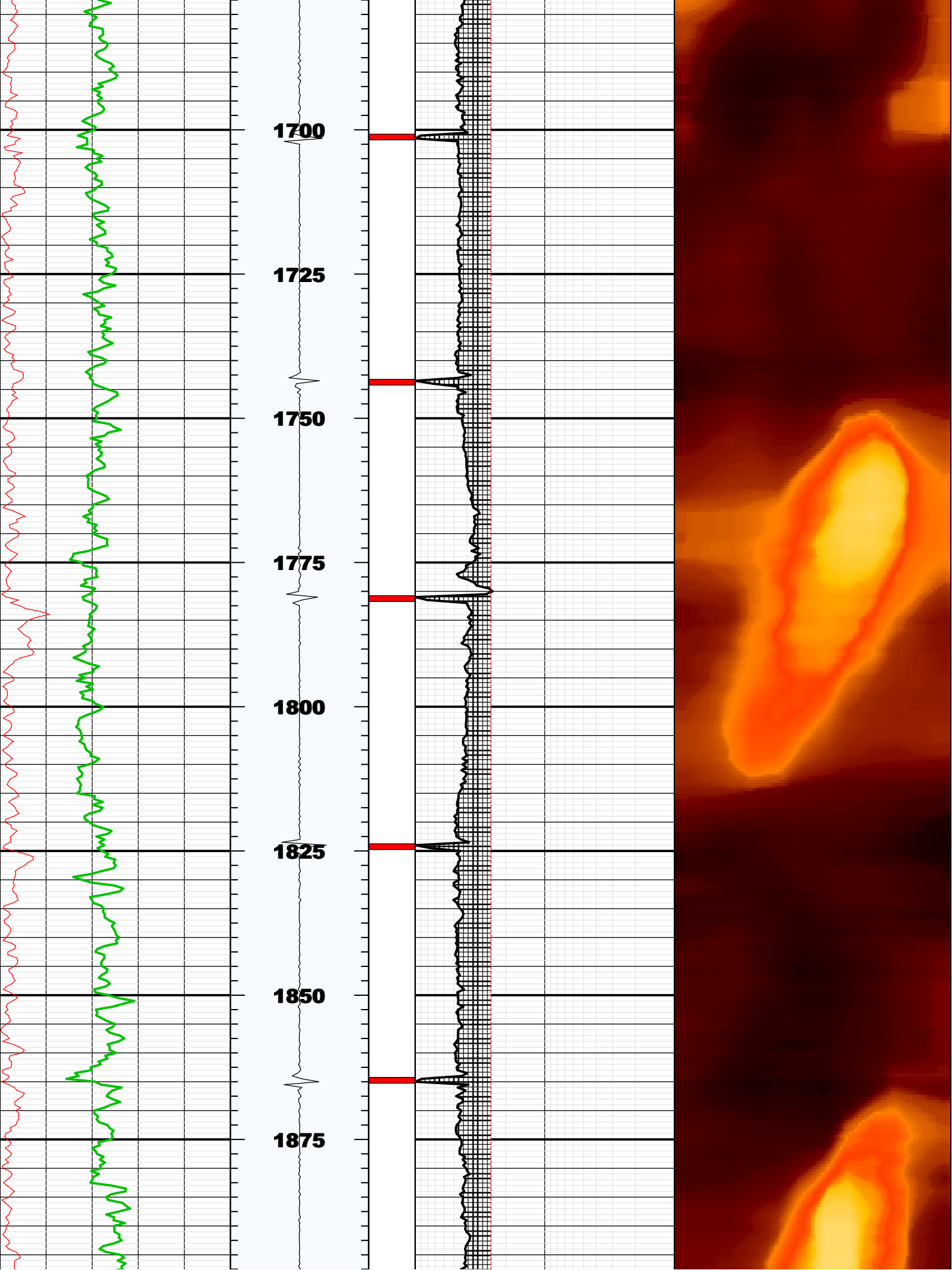


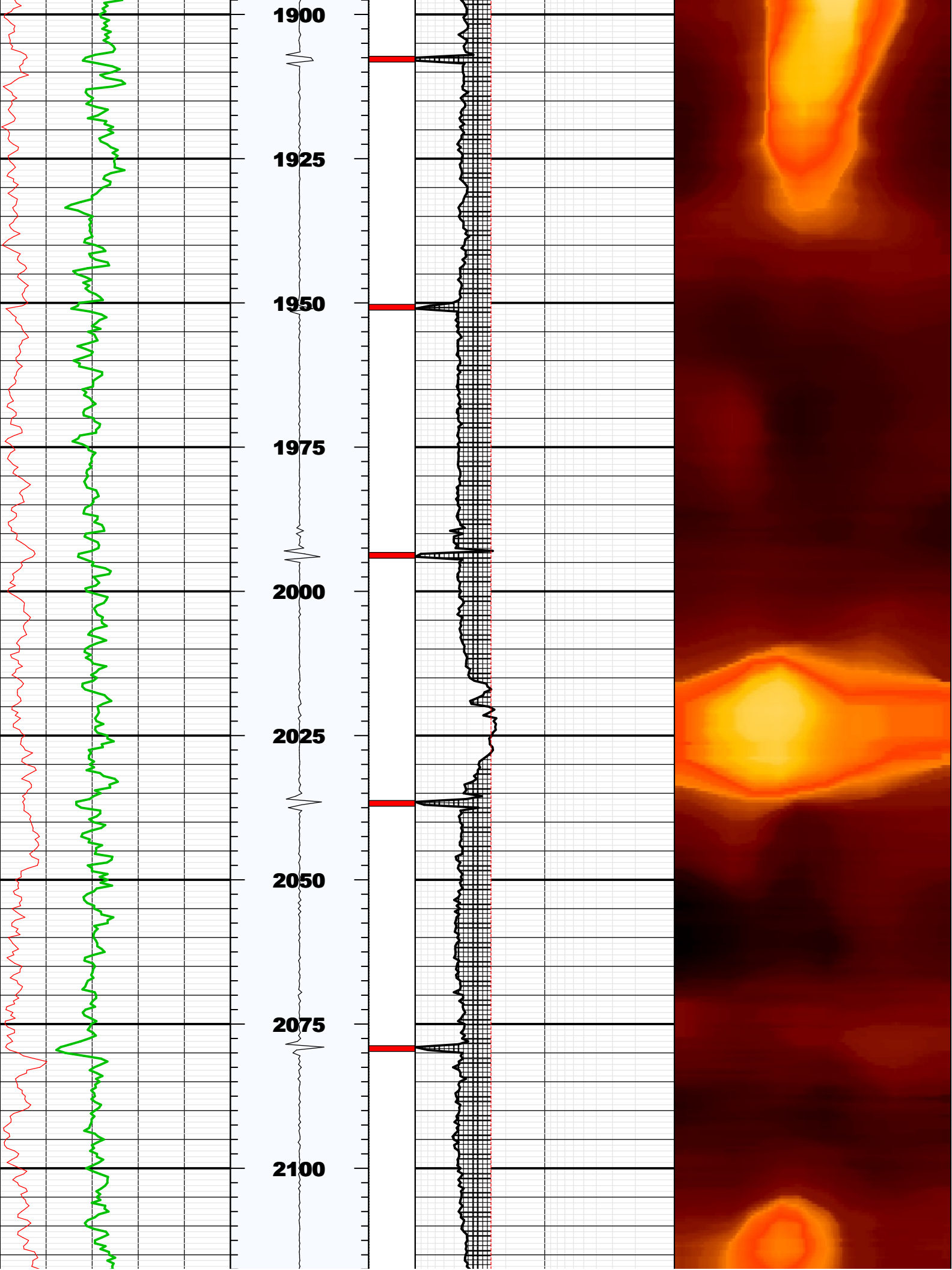


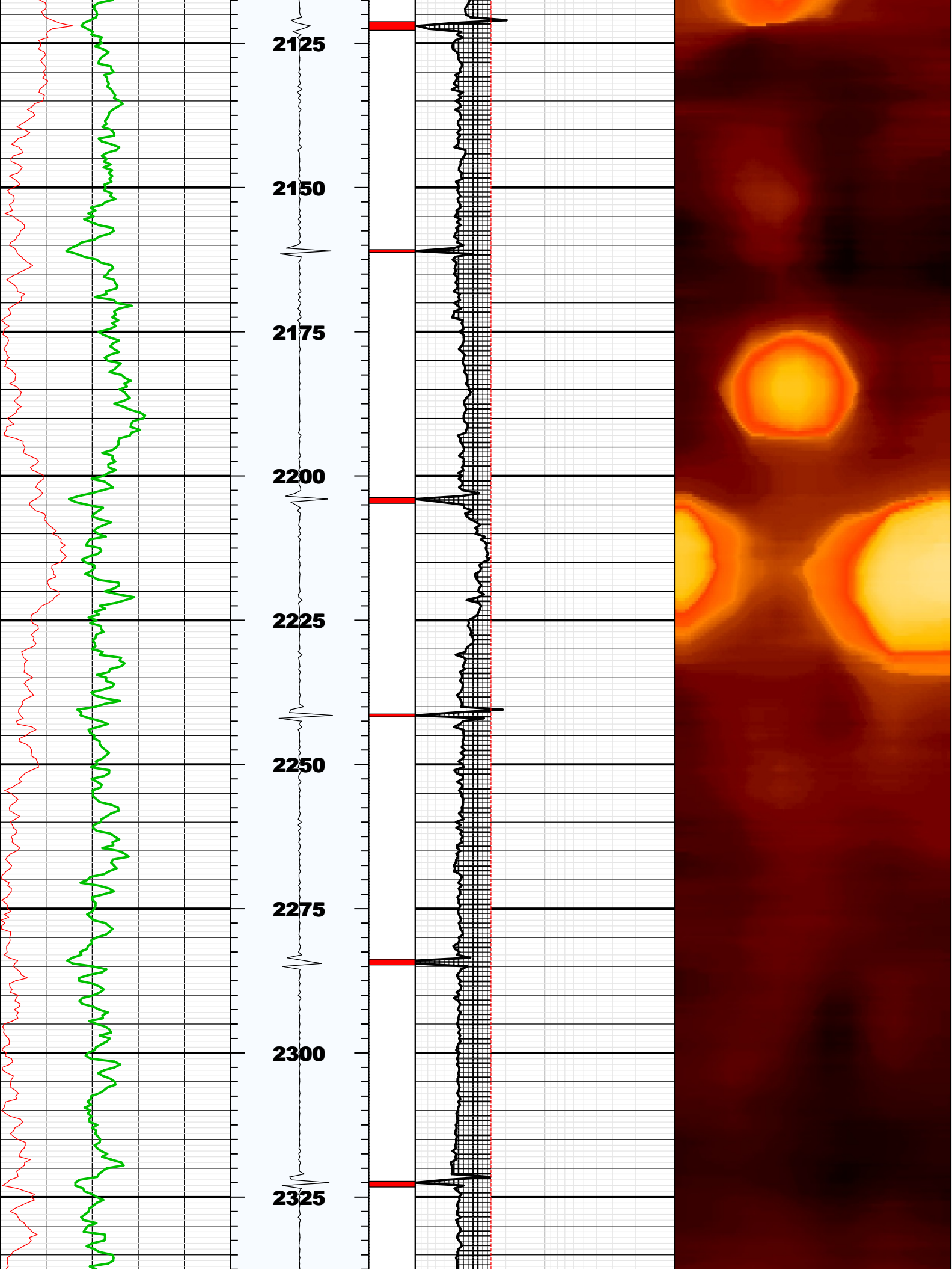


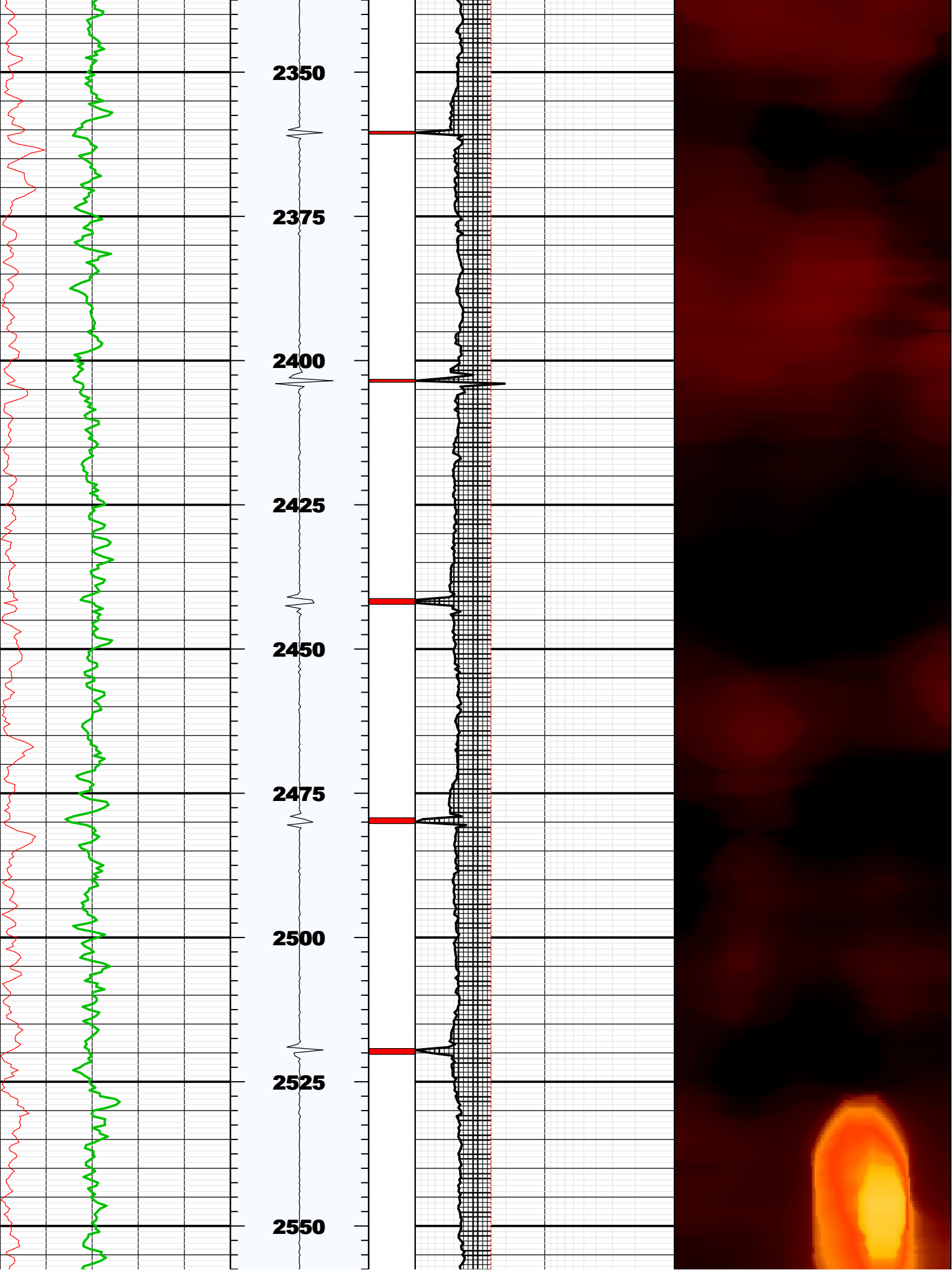


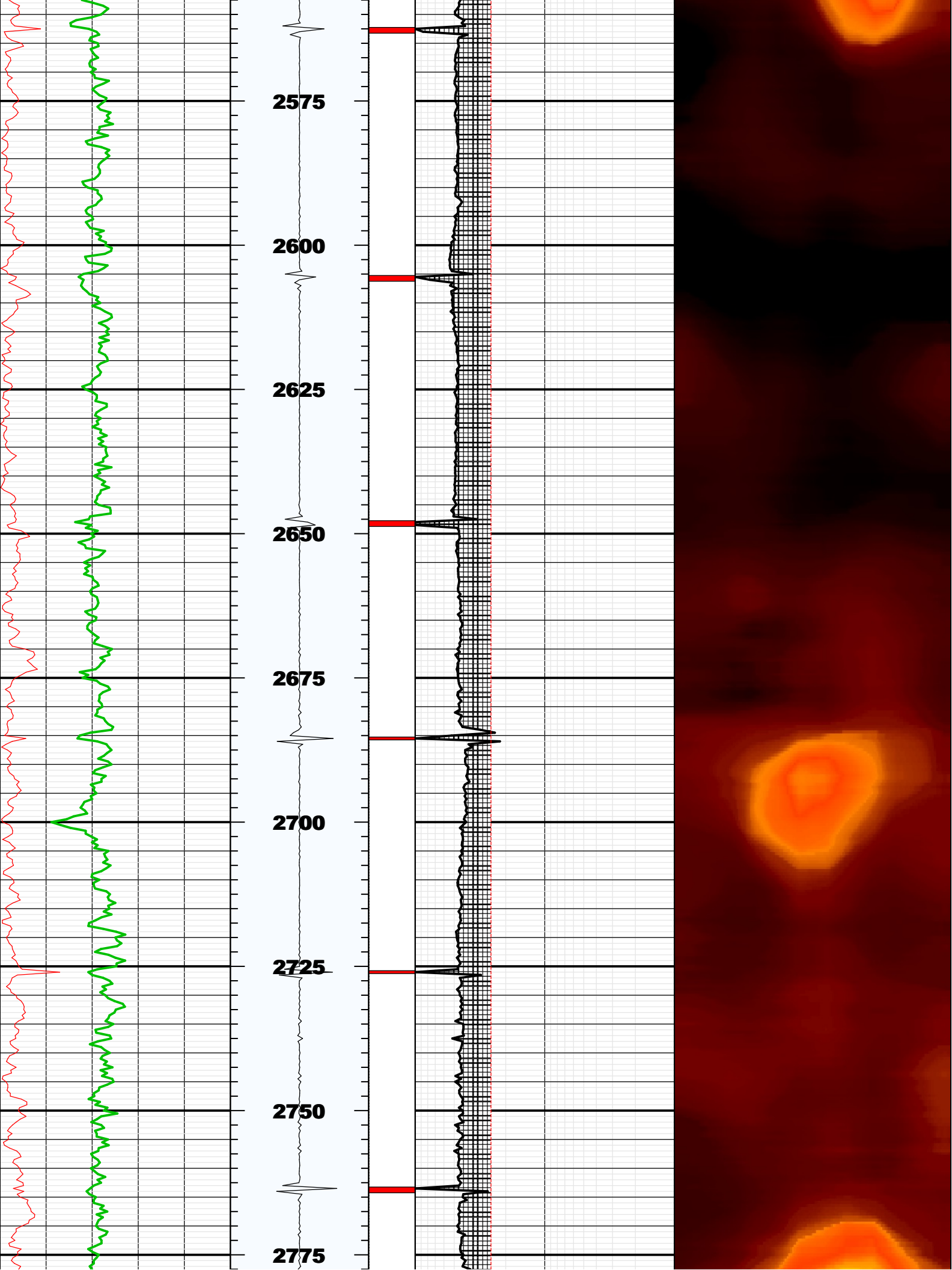


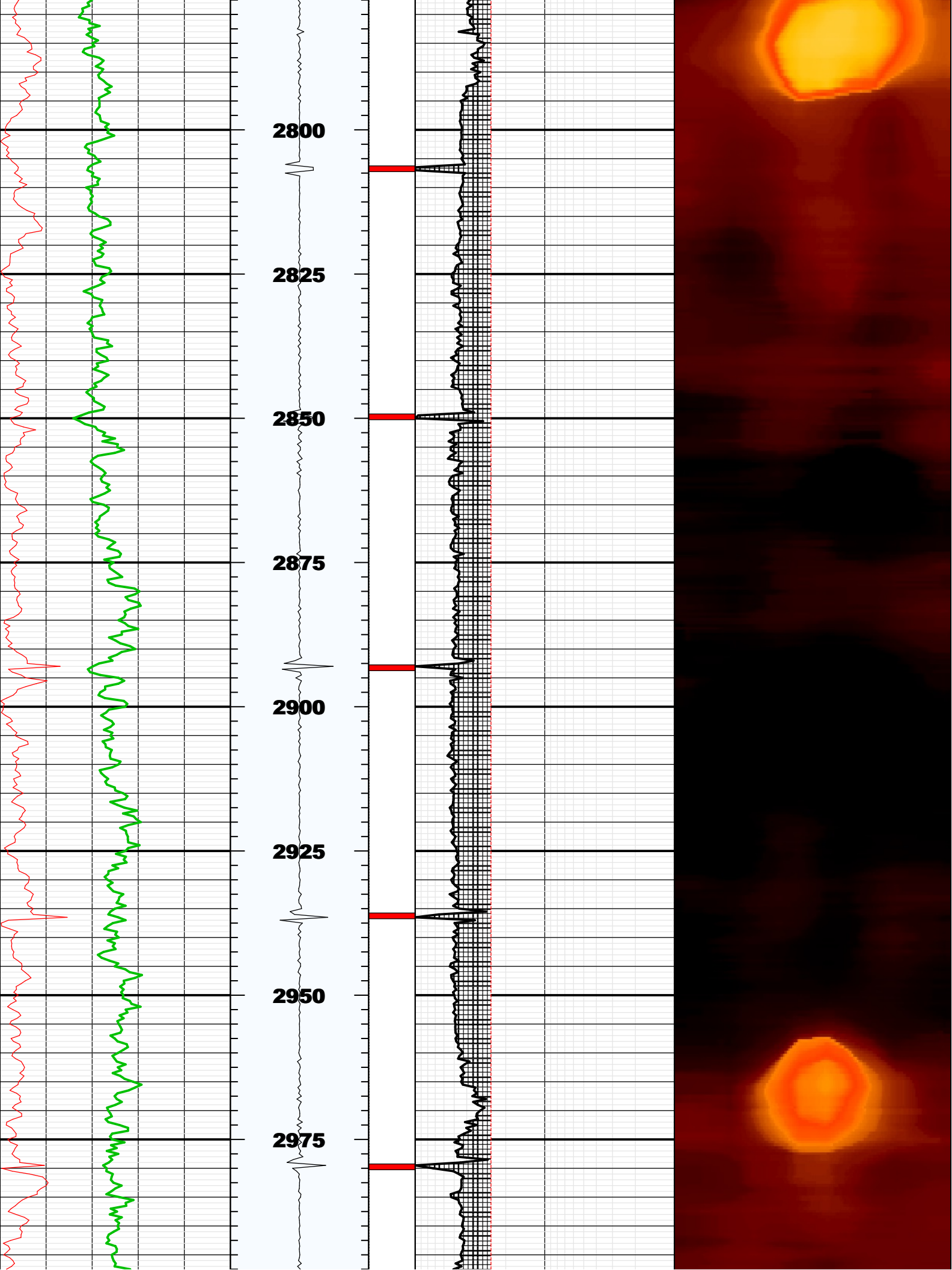


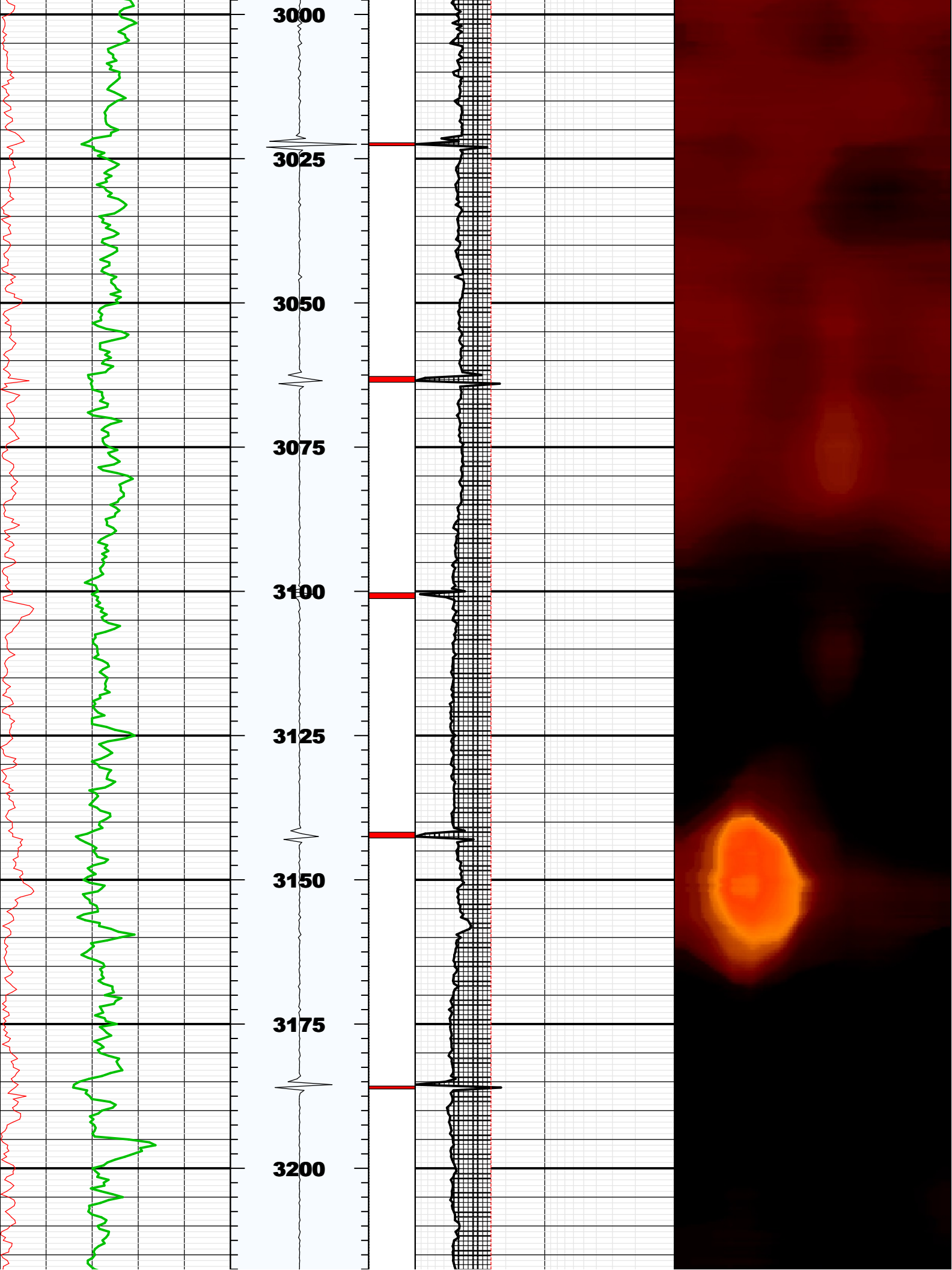


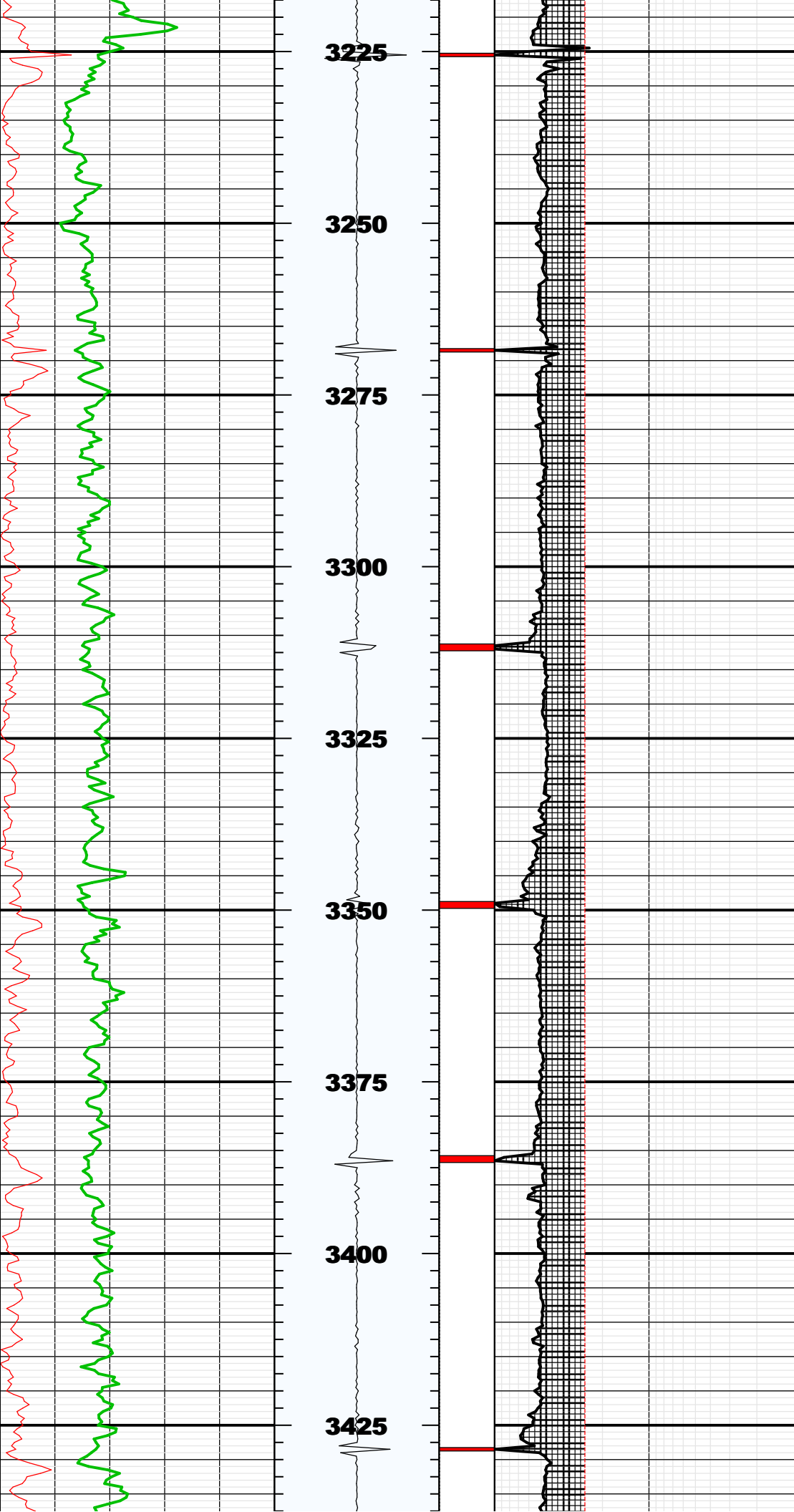


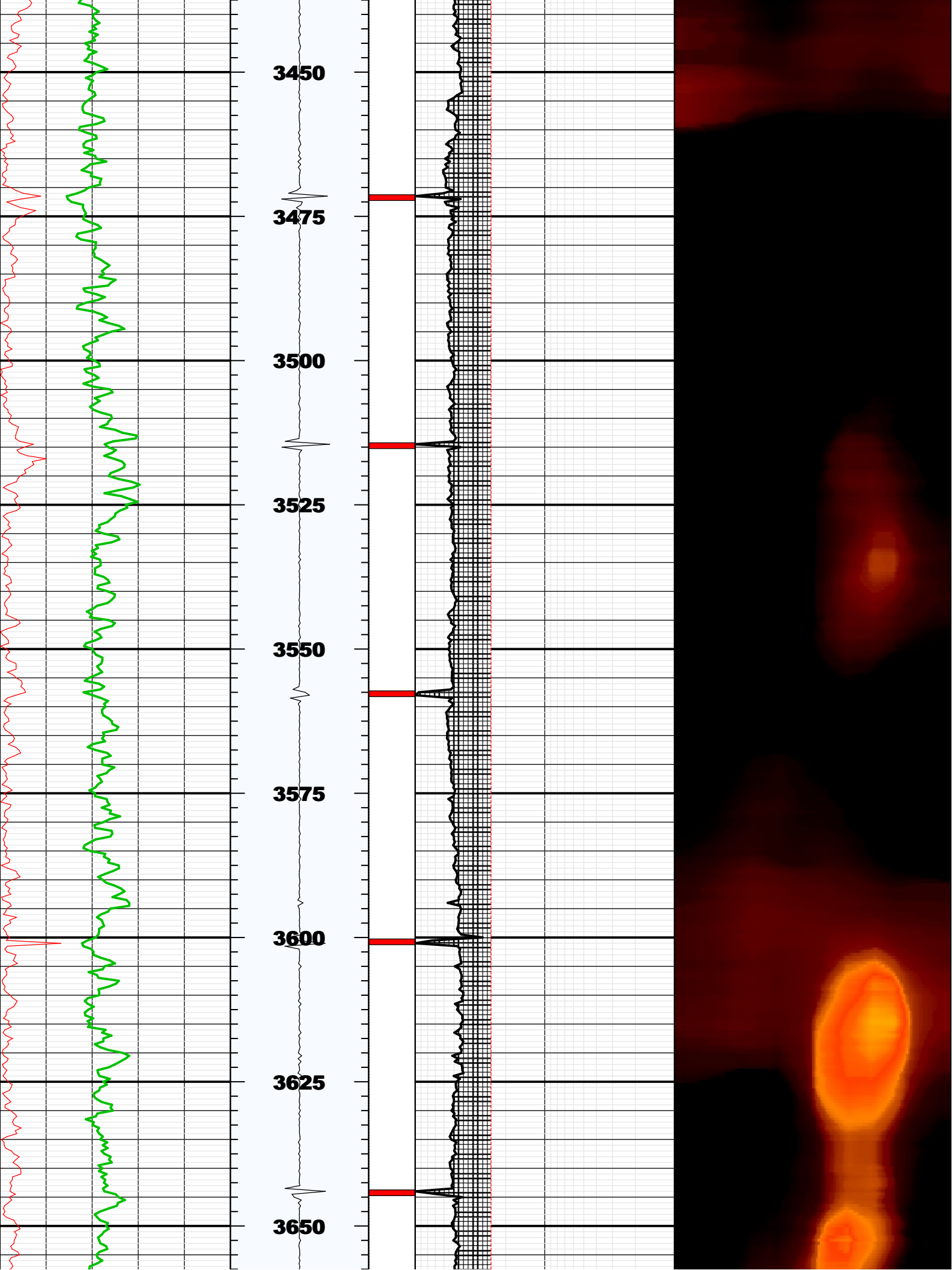


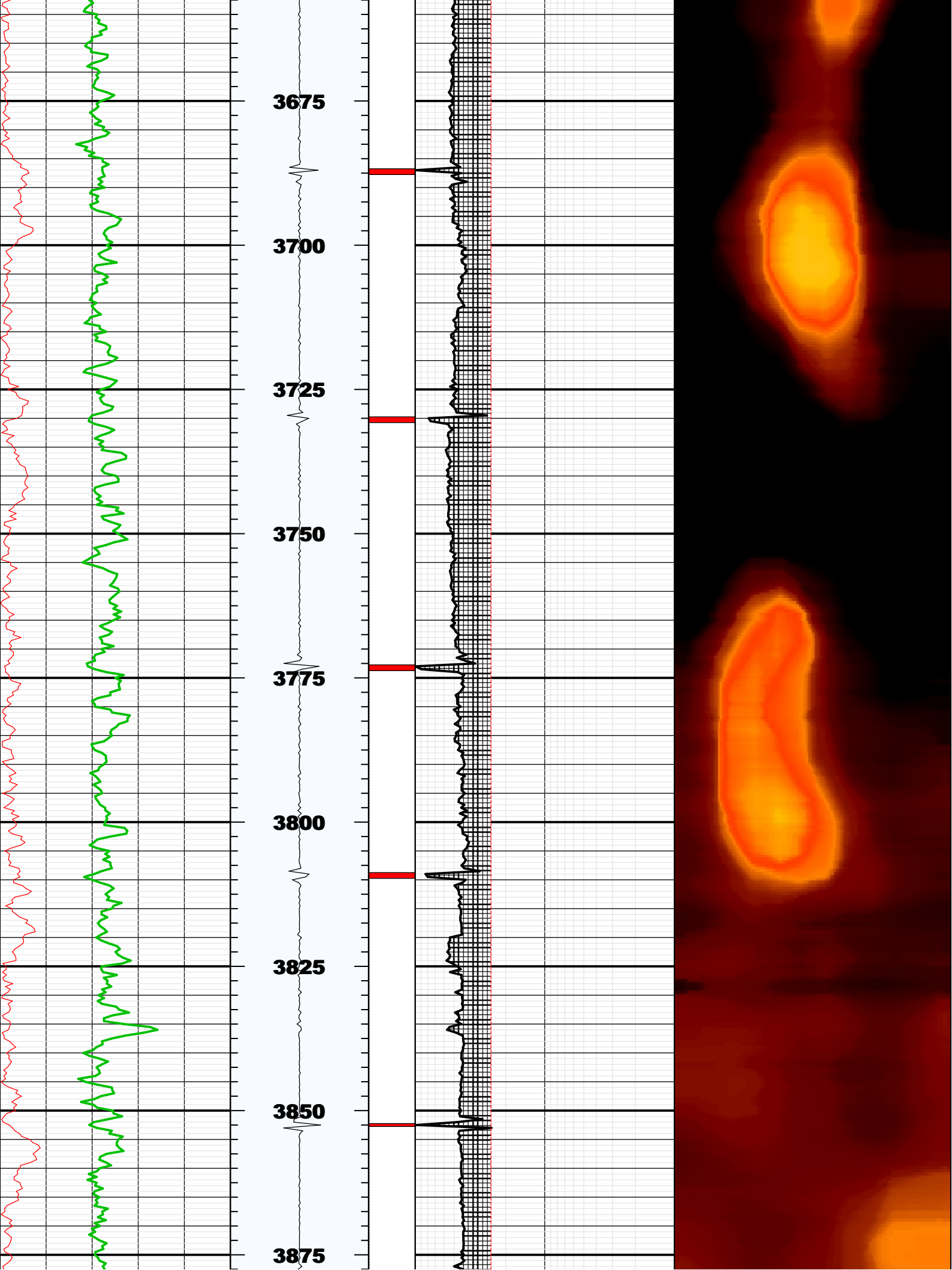


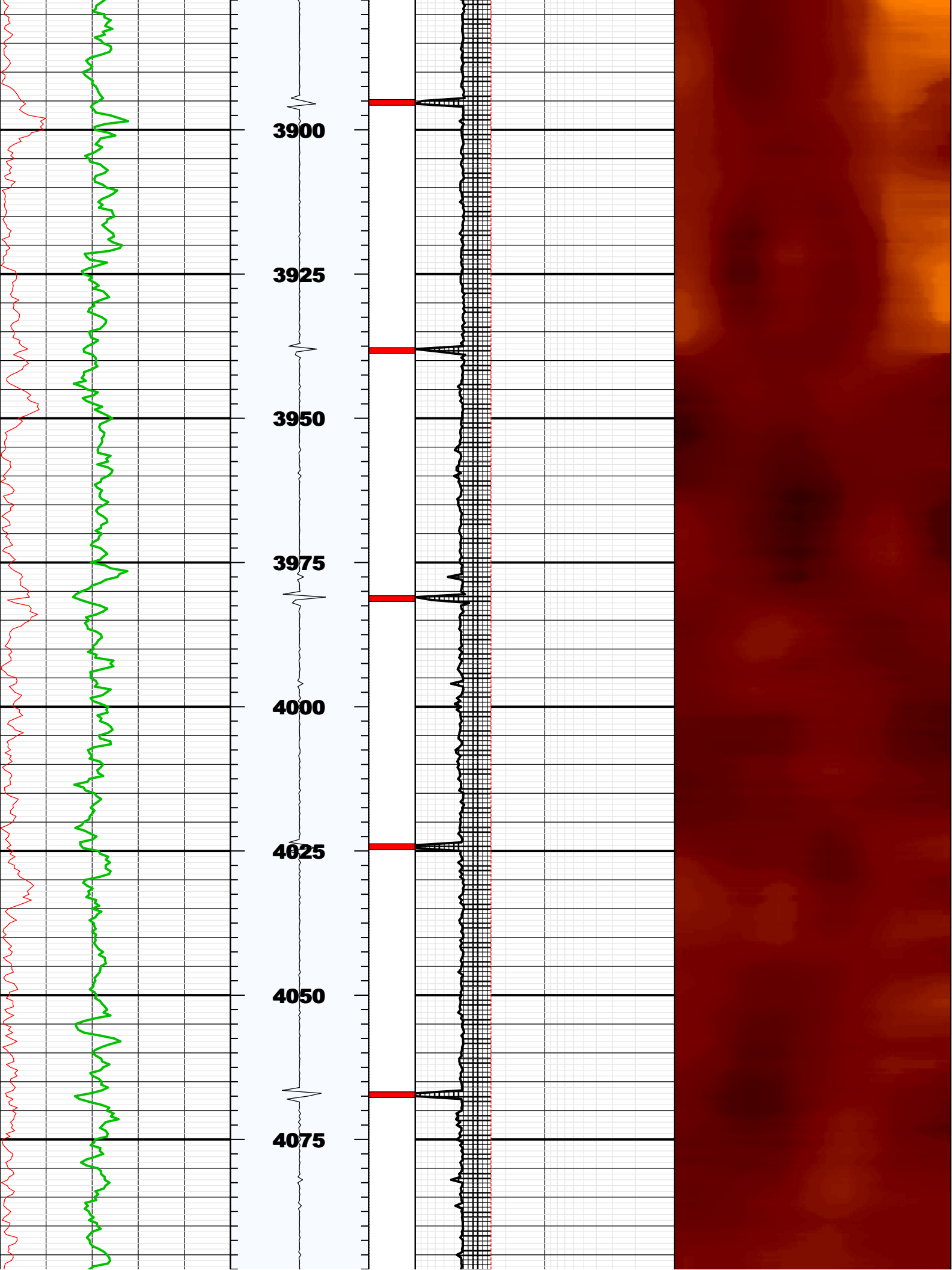


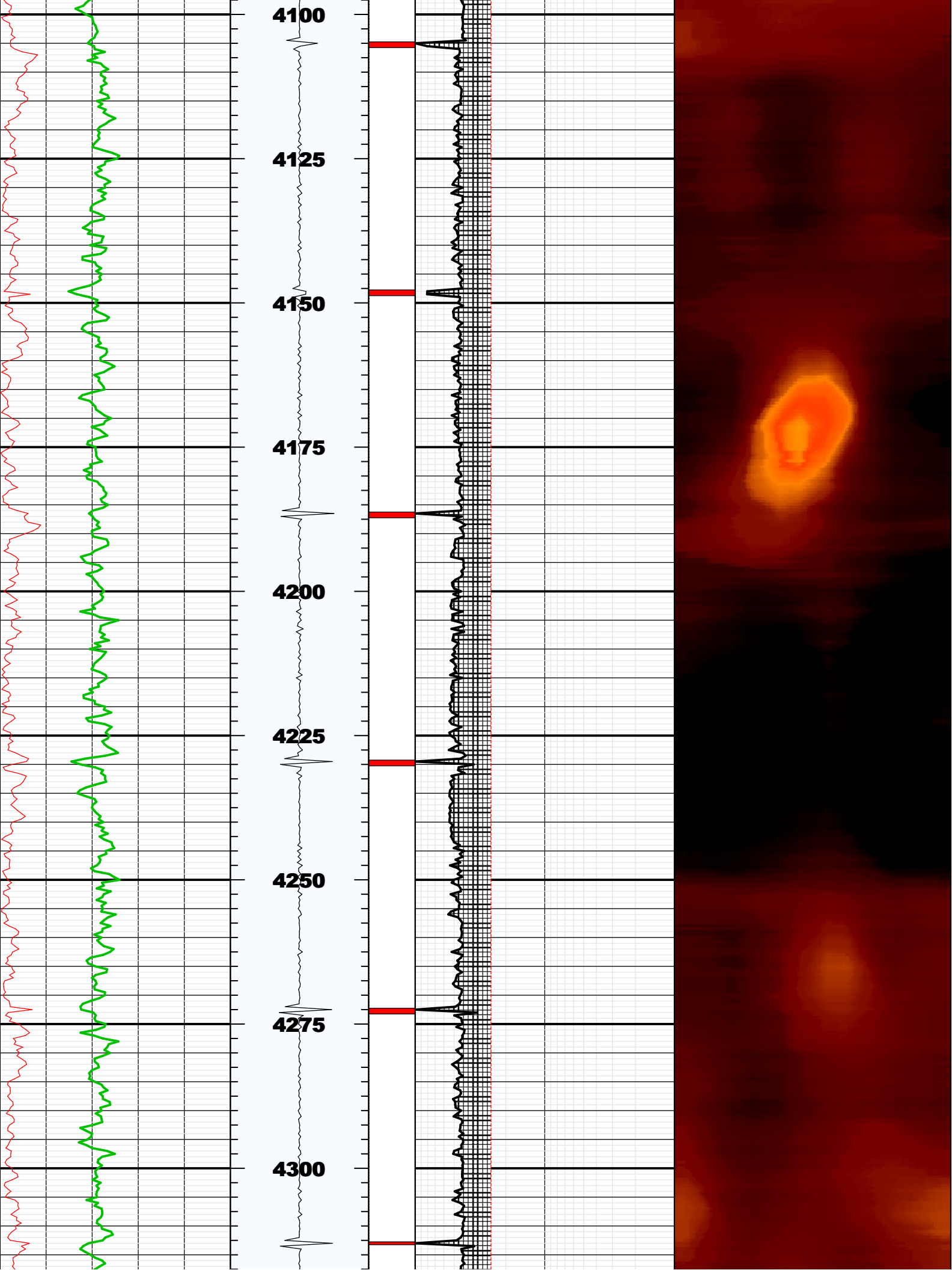


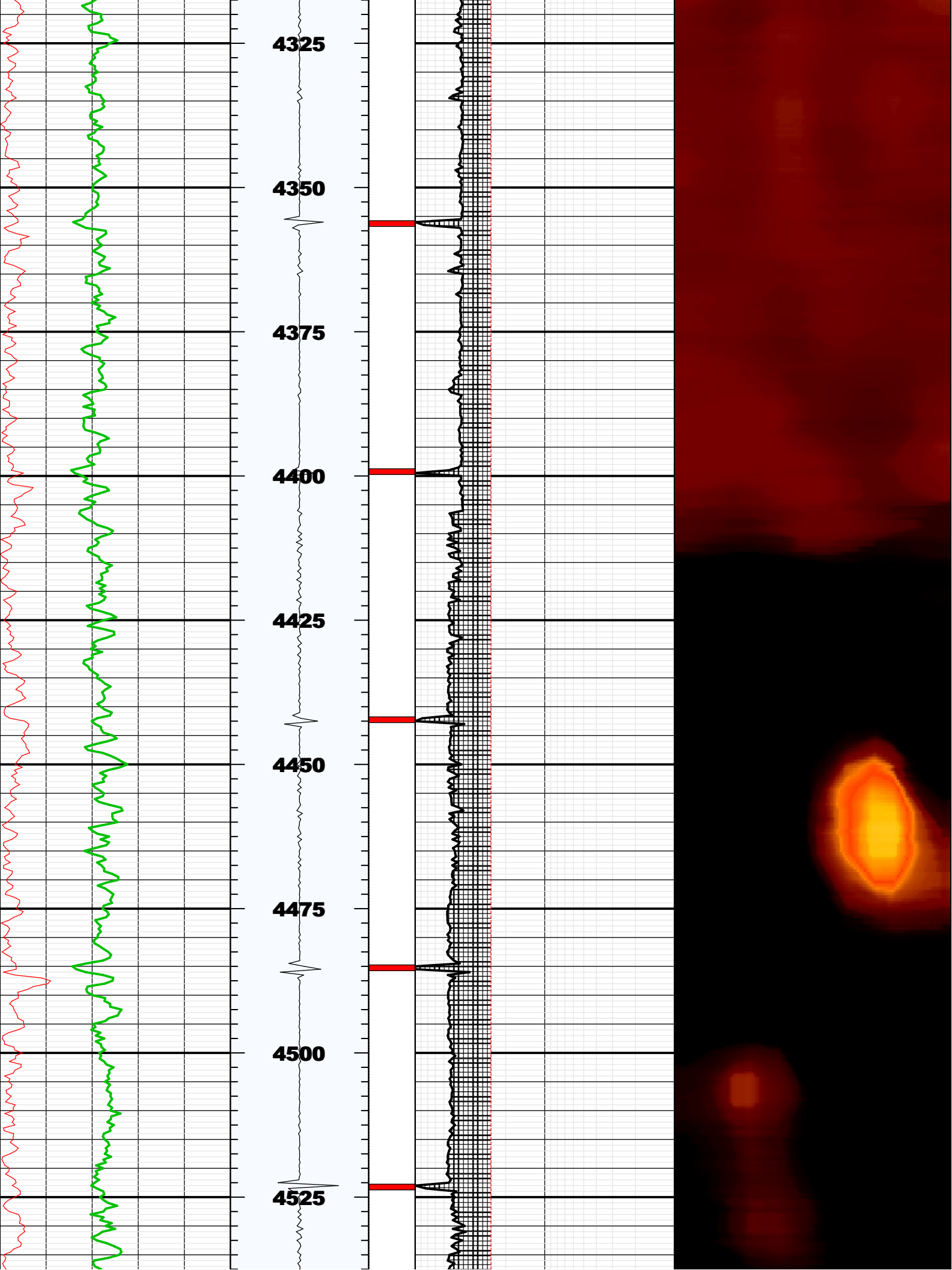


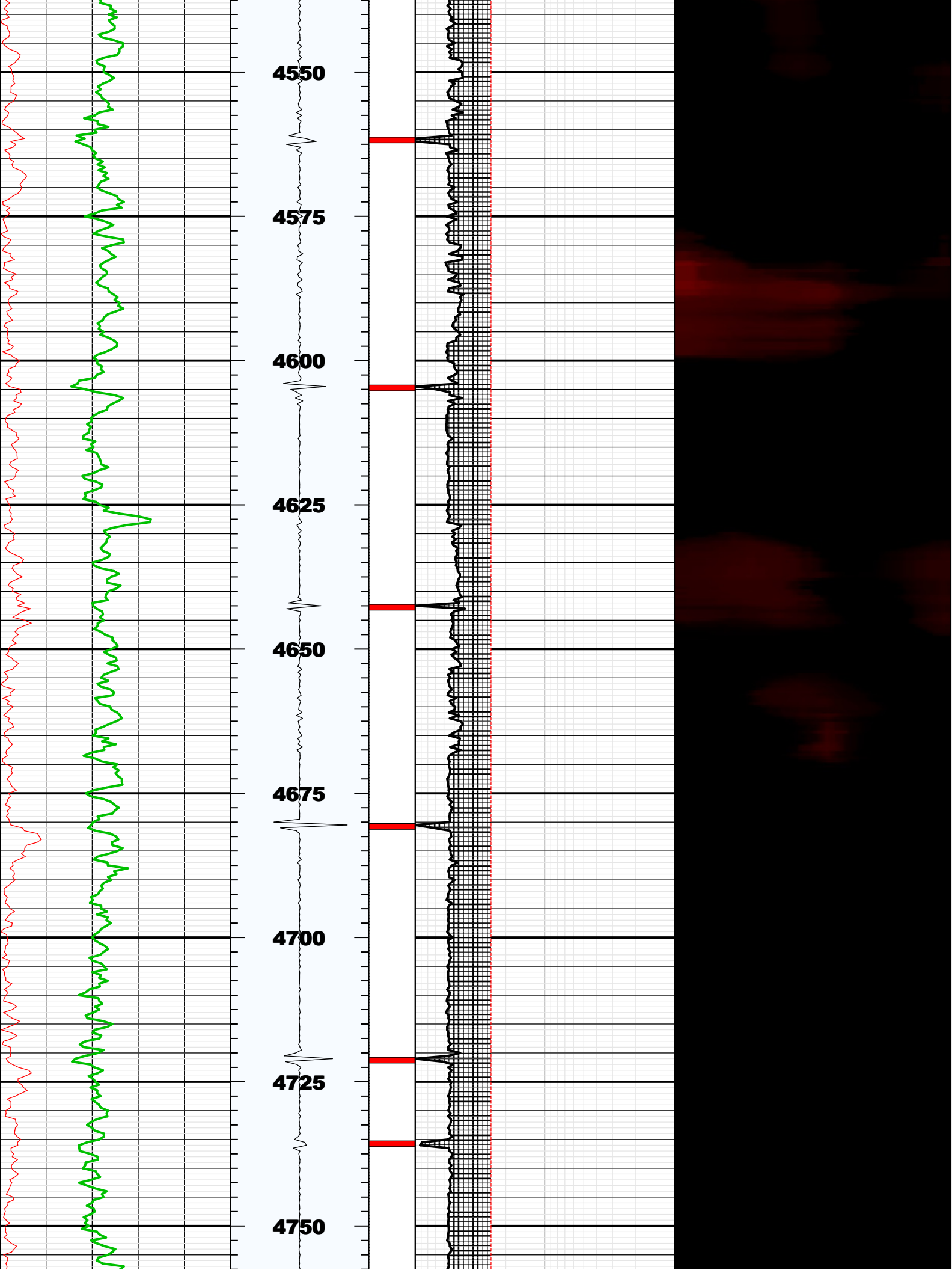


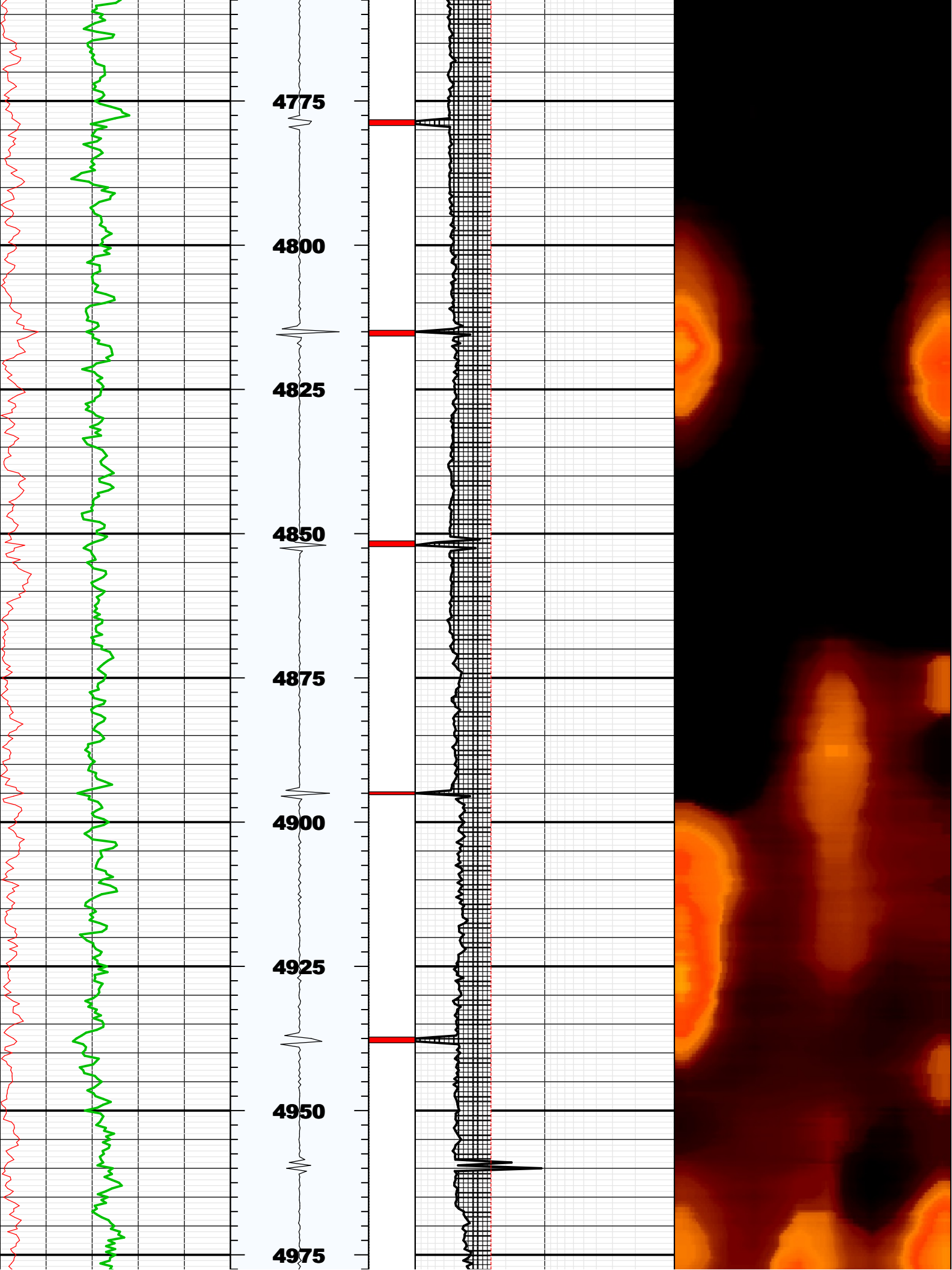


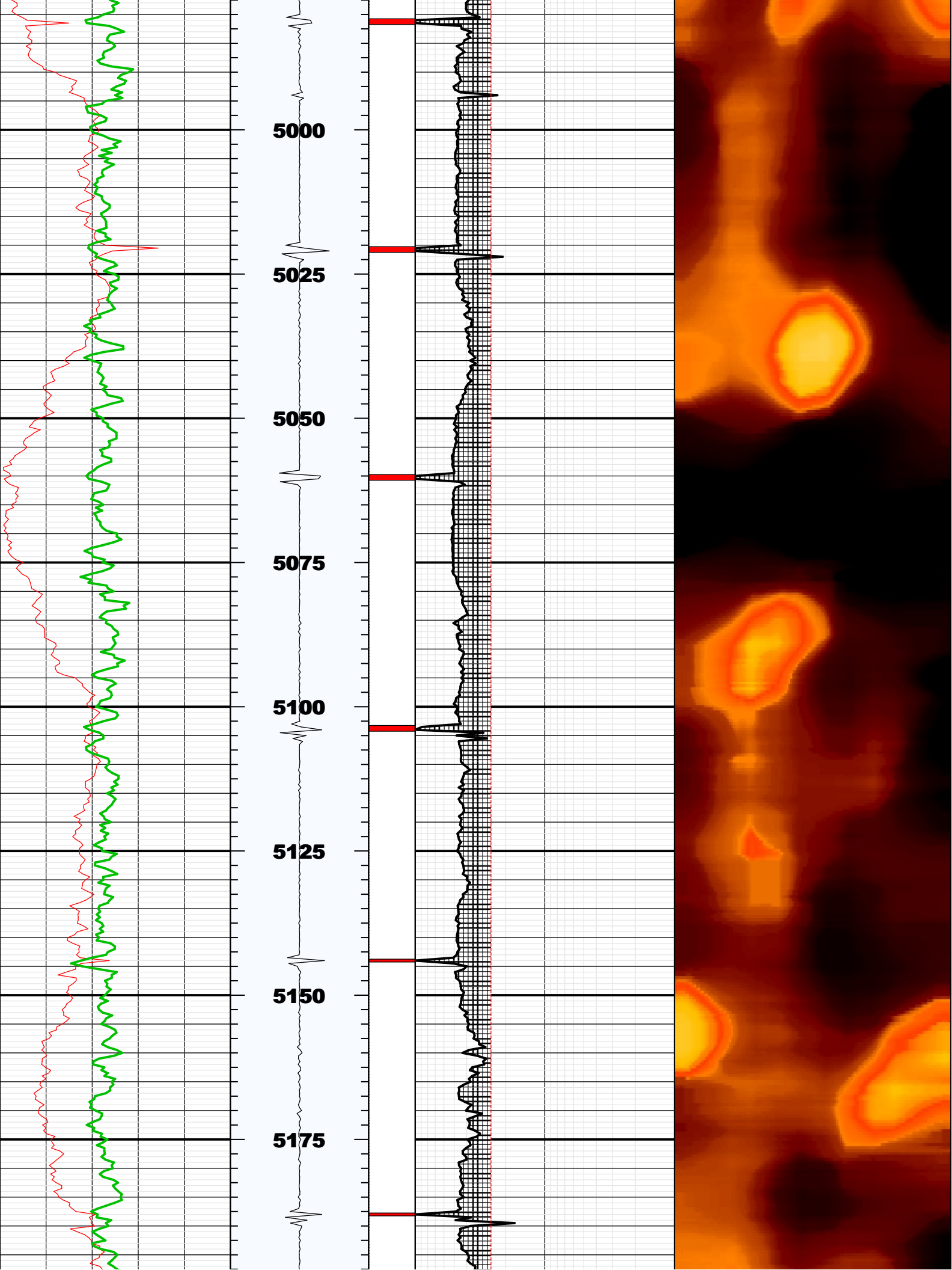


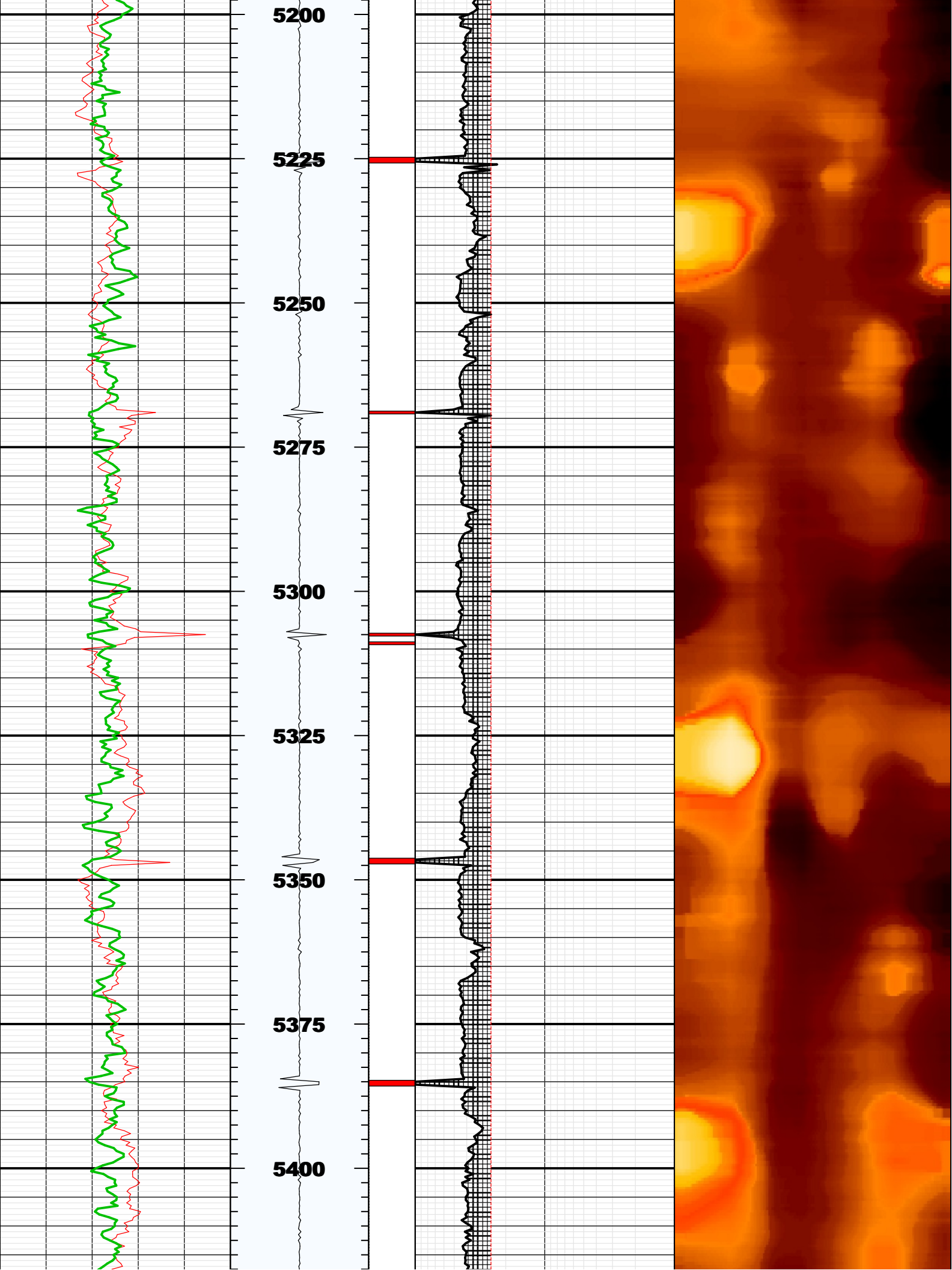


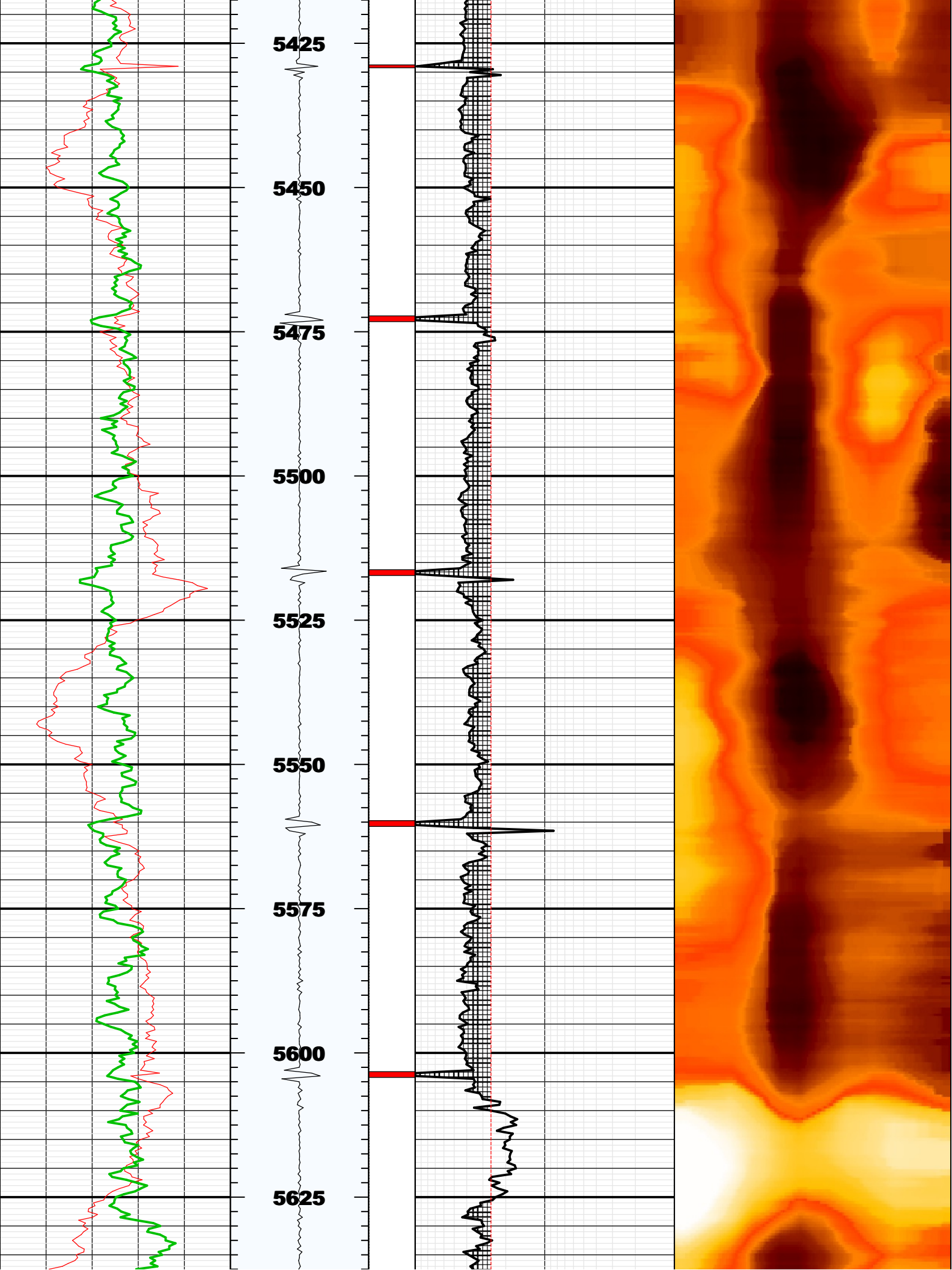


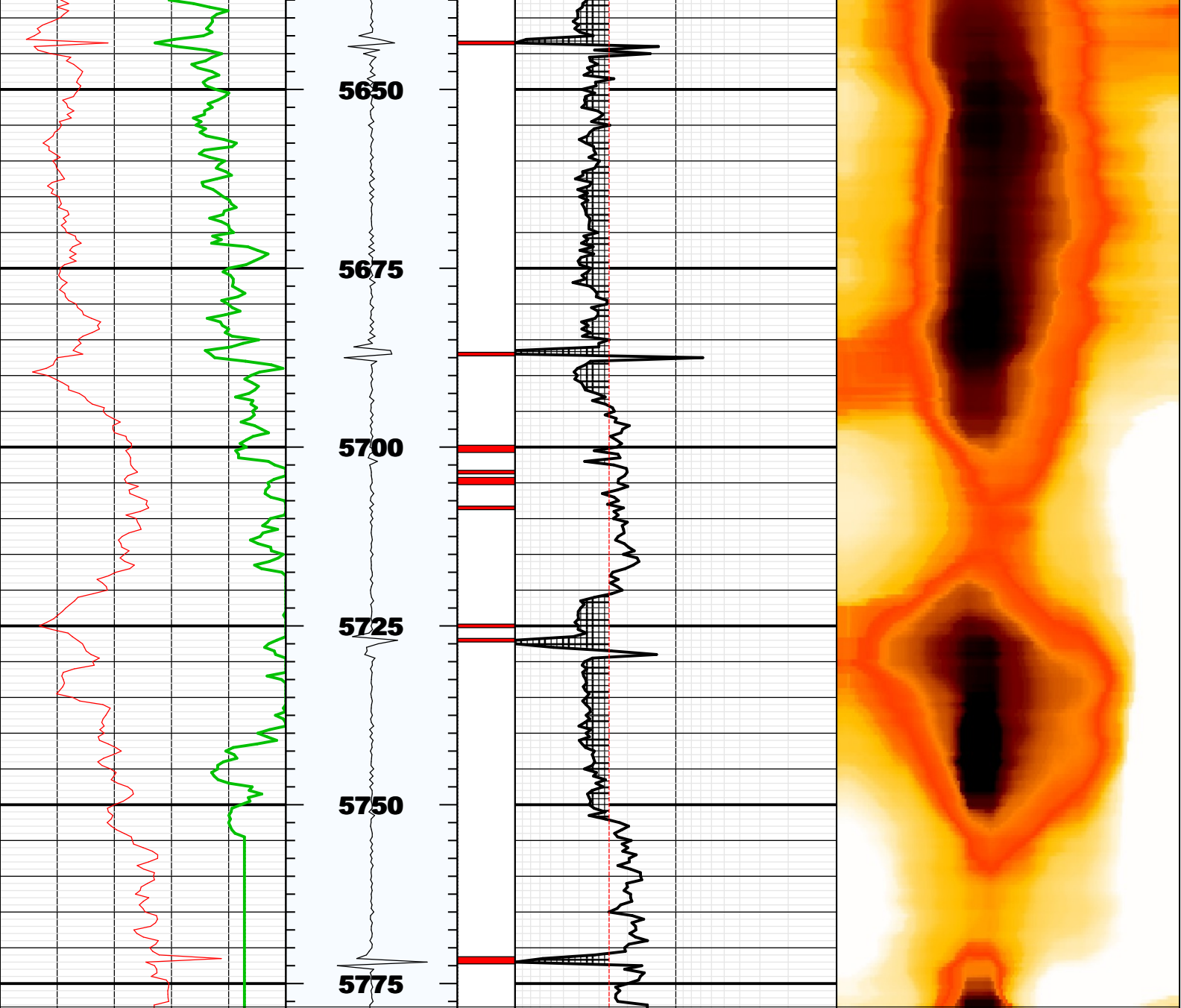








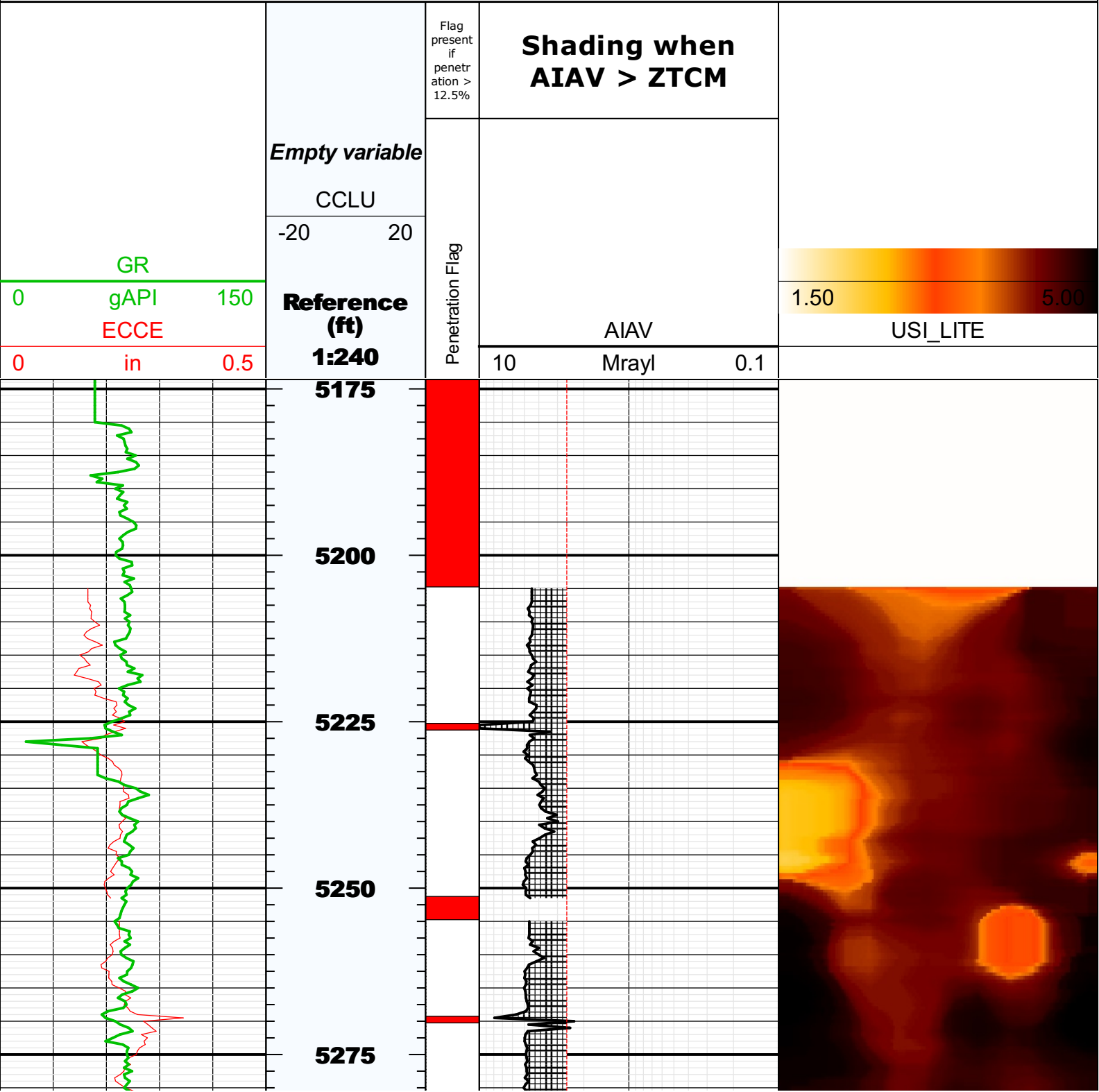


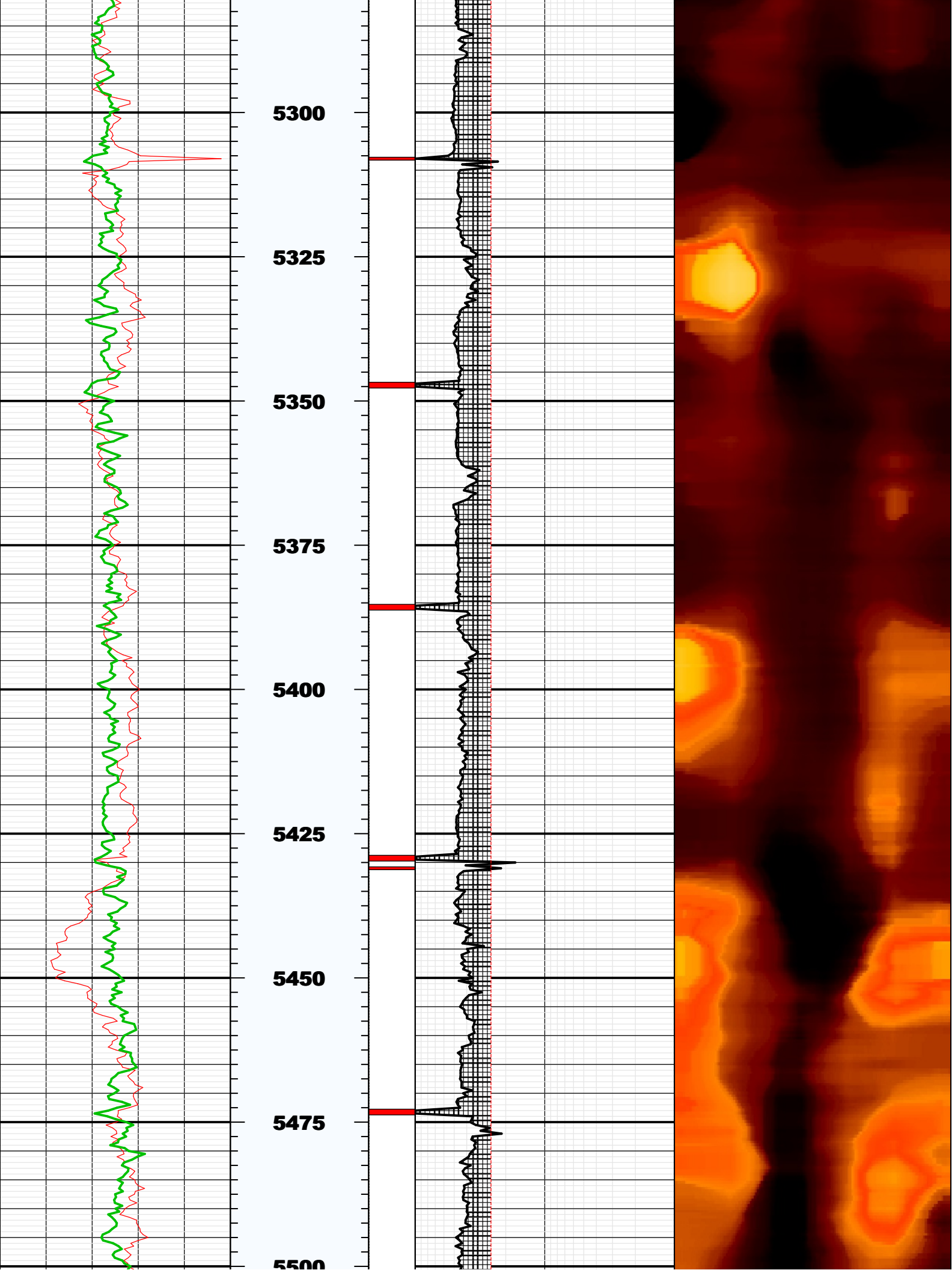


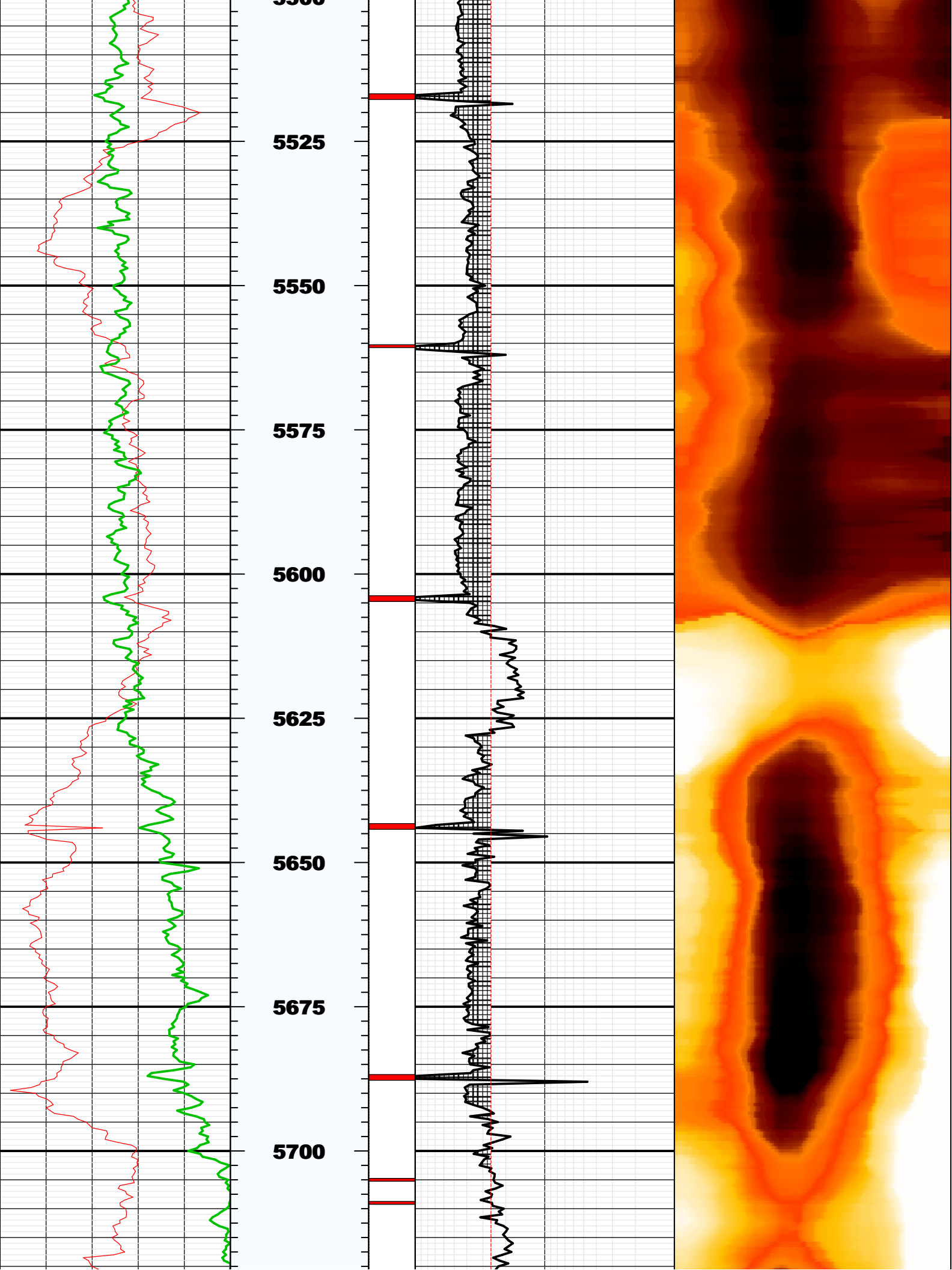
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.70000	LB/G	Drilling Fluid Density
DFVL	206.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	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	1.88000	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

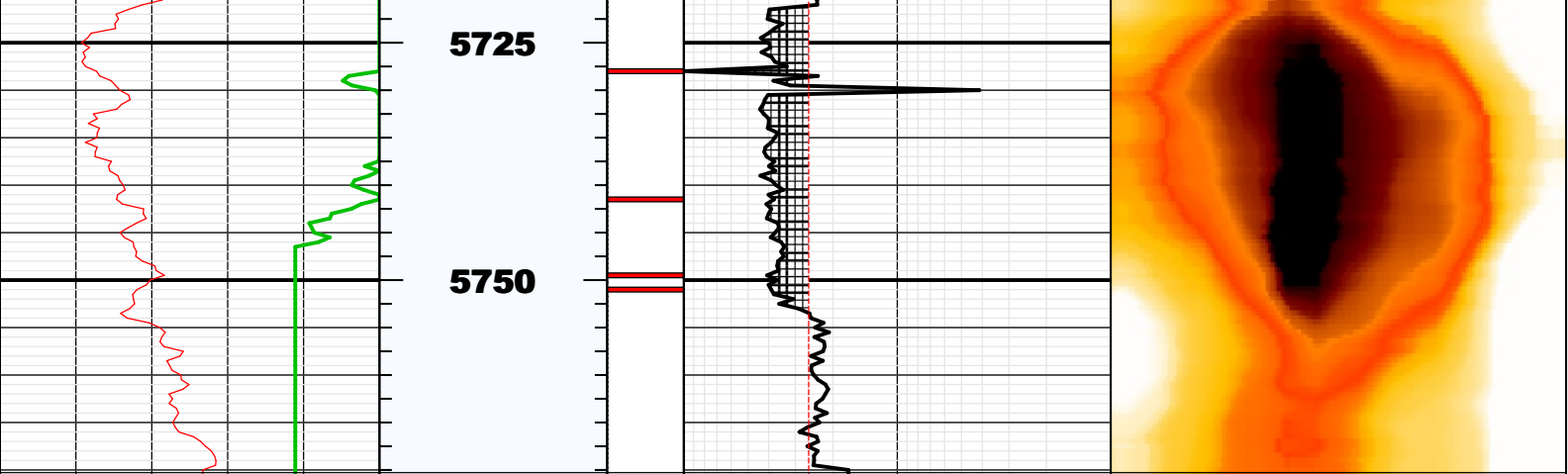
Repeat Pass

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Fluid Properties Used for Main Pass

