

Company: Noble Energy Inc

Well: NCLP AA06-66-1BHNA
Field: Wattenberg
County: Weld State: Colorado

County: Weld				
Field: Wattenberg				
Location: SWNW Sec. 4 T6N R63W				
Well: NCLP AA06-66-1BHNA				
Company: Noble Energy Inc				
USI-LITE				
				LOCATION
Permanent Datum: Log Measured From: Drilling Measured From:		GL KB KB	Elev: K.B. 4734.0 F G.L. 4710.0 F D.F. 4733.0 F	
Logging Date	API Serial No. 05-123-39070-0000	Section 4	Township 6N	Range 63W
Run Number	07-Aug-2014			
Depth Driller	Run1 USIT			
Schlumberger Depth	16306.0 F			
Bottom Log Interval	16306.0 F			
Top Log Interval	6810.0 F			
Casing Fluid Level	-999.2 F			
Salinity	0.0 F			
Density	10.00 LB/G			
Fluid Level	0.0 F			
BIT/CASING/TUBING STRING				
Bit Size	8.750 IN			
From	-999.2 F			
To	16306.0 F			
Casing Size	7.00 IN			
Weight	26.00 LB/F			
Grade	P110			
From	0.0 F			
To	6947.0 F			
Max Recorded Temp	230.0			
Logger on bottom (date)	07-Aug-2014			
Location	Ft. Morgan CO			
Recorded By	Tim Hoffman			
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:	1109 Type: Serial Number: Calibration Date: Calibrator Serial Number: Number Of Calibration Points: Calibration RMS: Calibration Peak Error:	Serial Number: Length: 12000.00000

DISCLAIMER

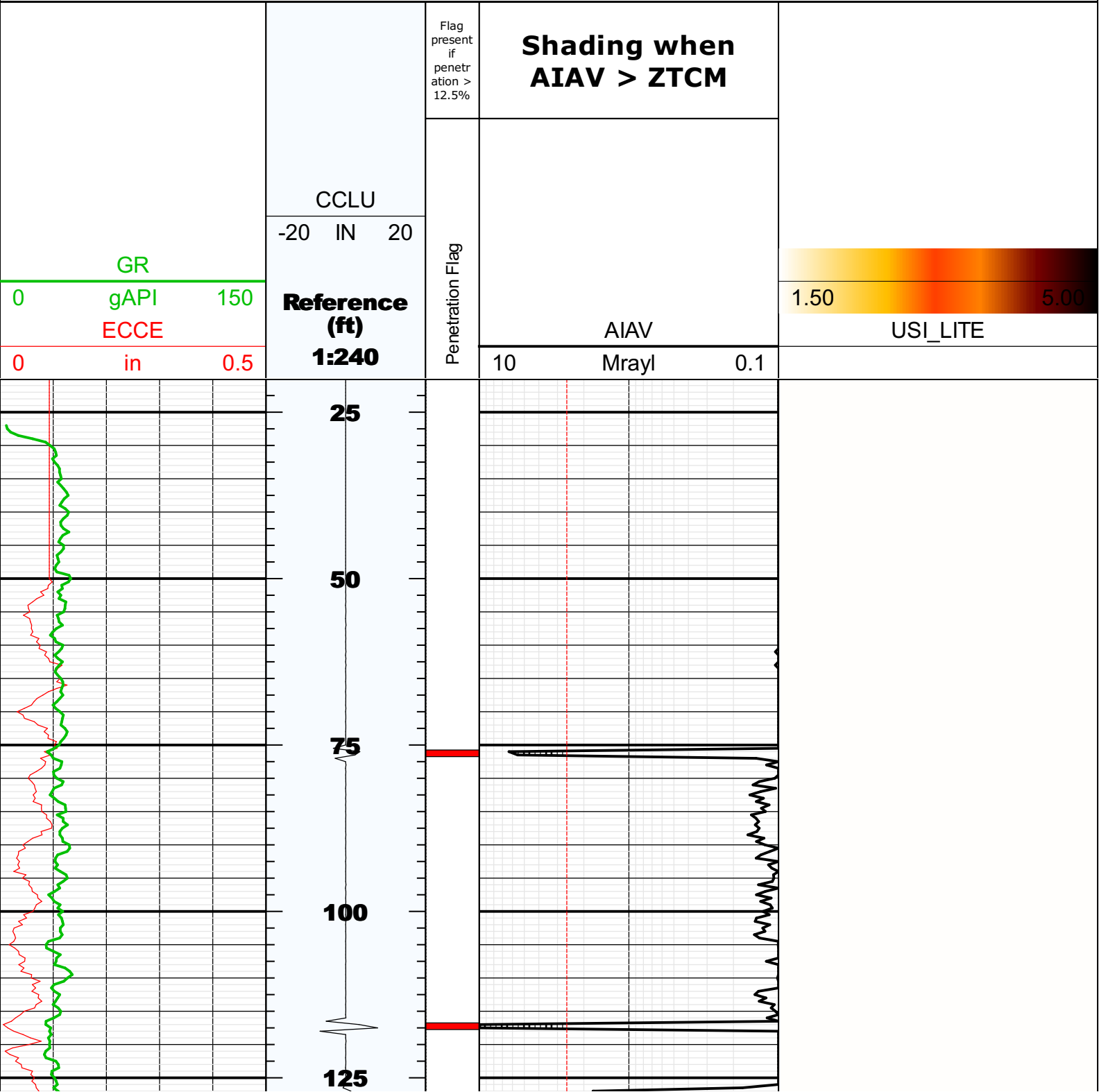
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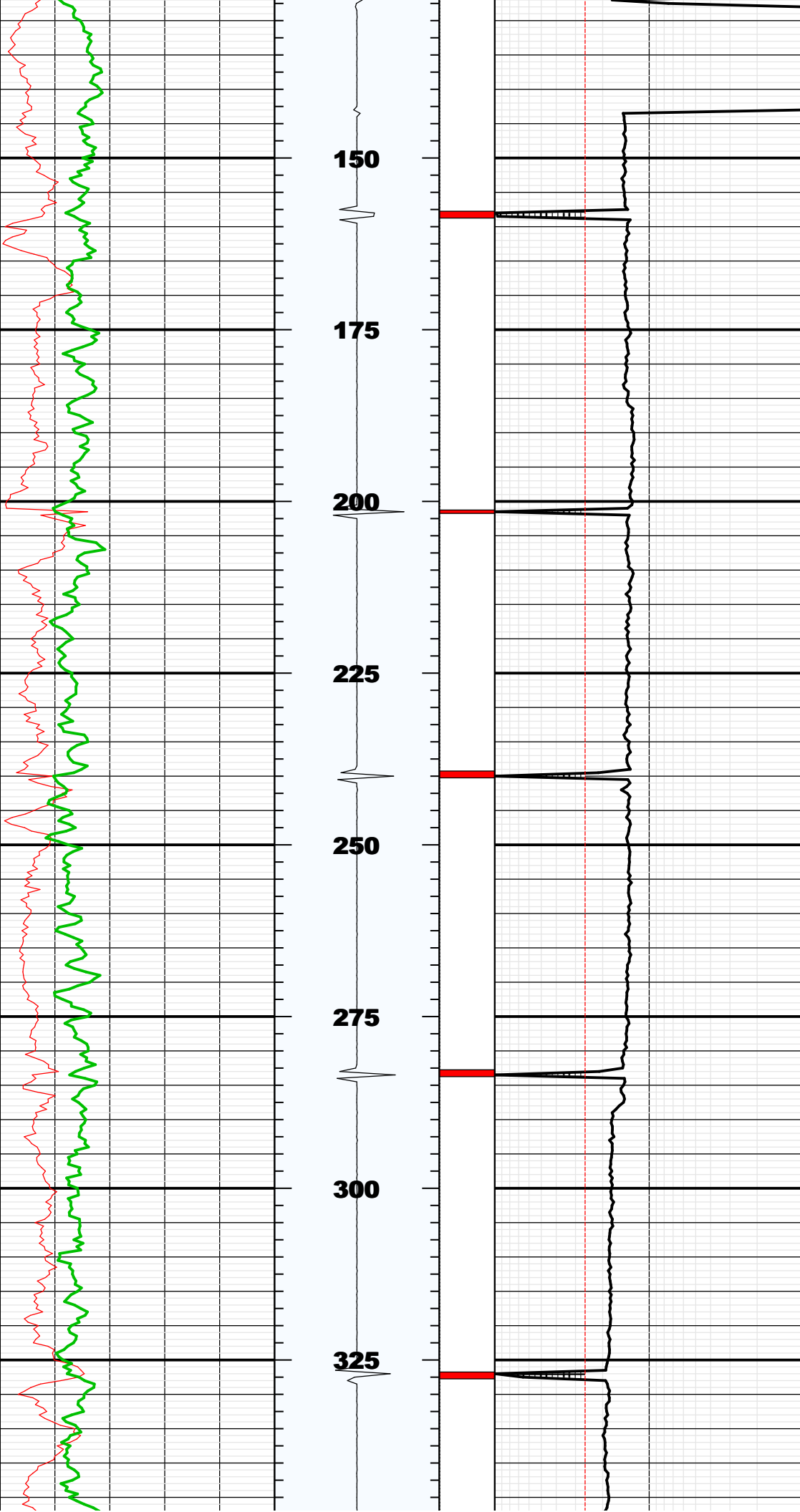
This is the first run in hole
Toolstring run as per tool sketch
12.5 ppg lead cement
13.8 ppg tail cement
0 PSI repeat pass
2500 PSI main pass

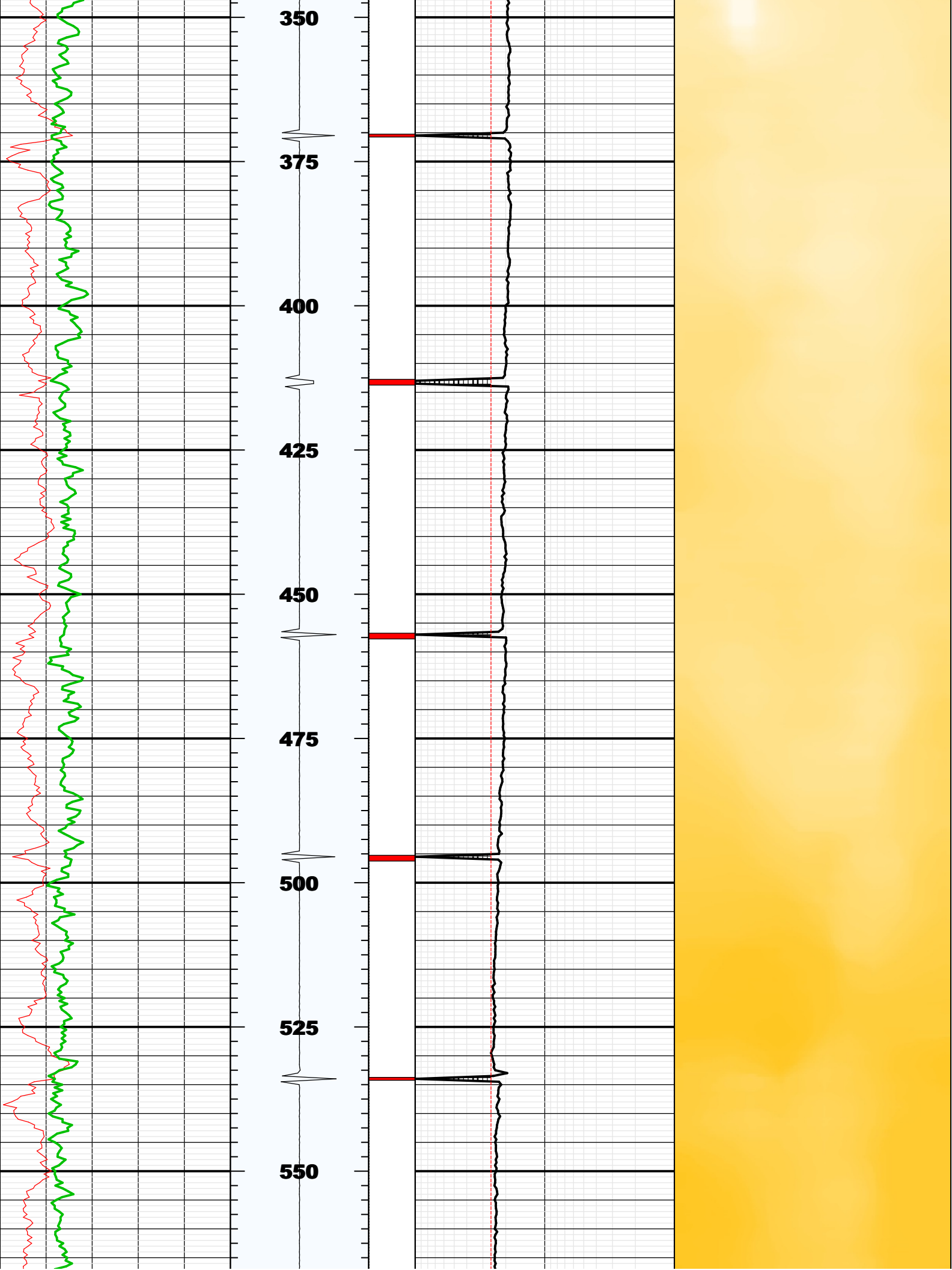
Bottom log temperature 230 degF
Top of cement 600 ft
Crew Jay Musgrave Ian Derry

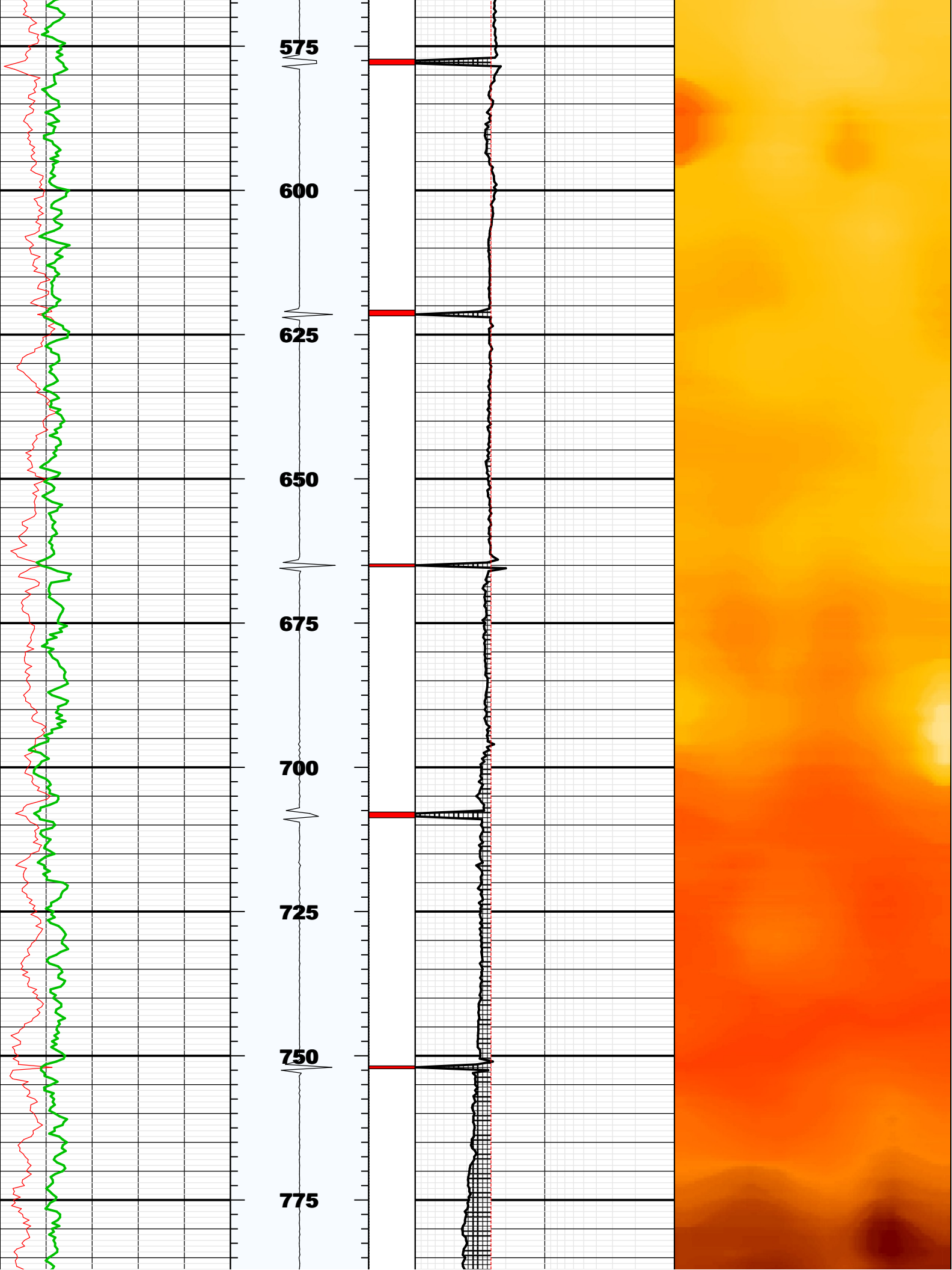
Main Pass

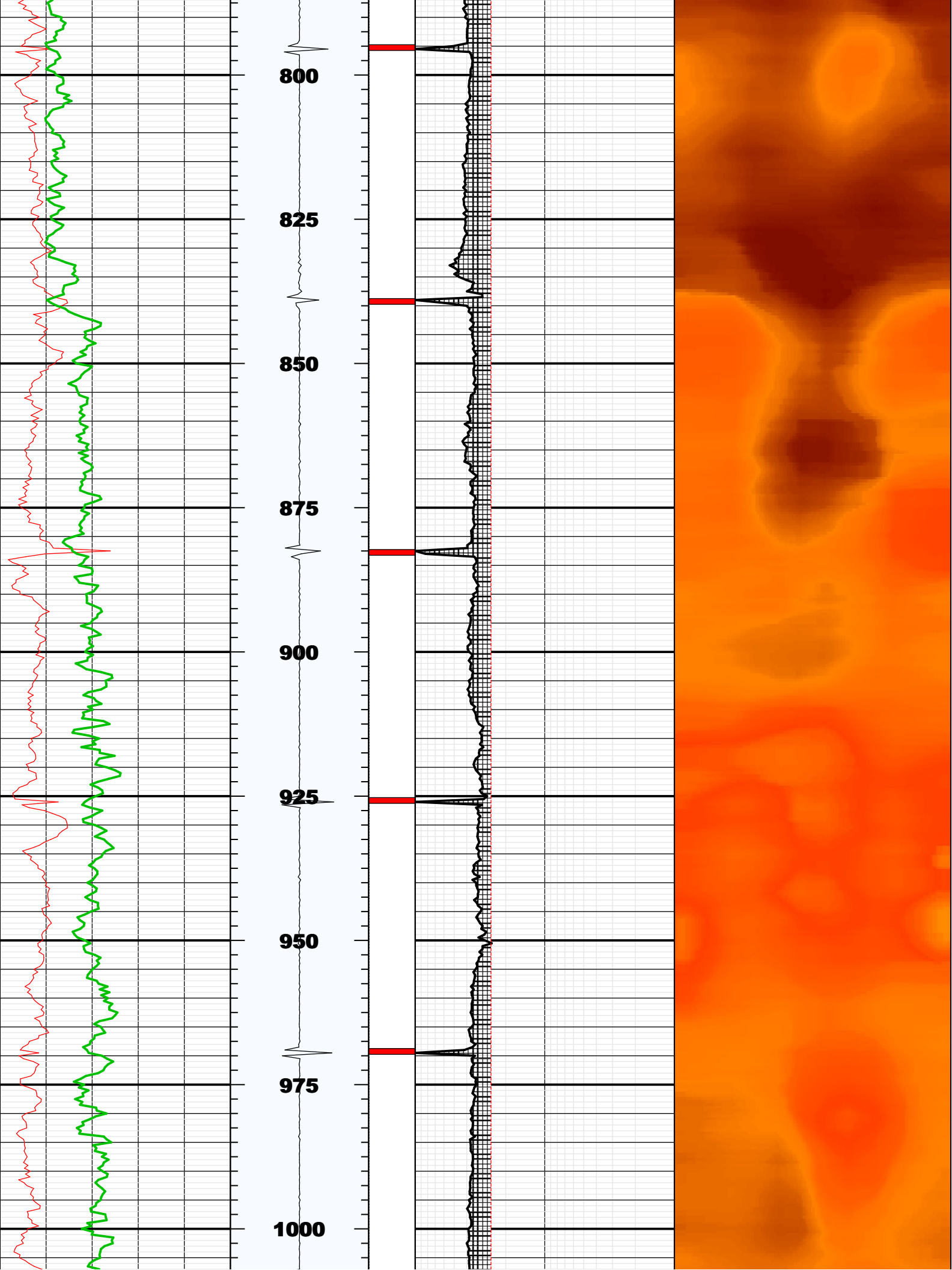
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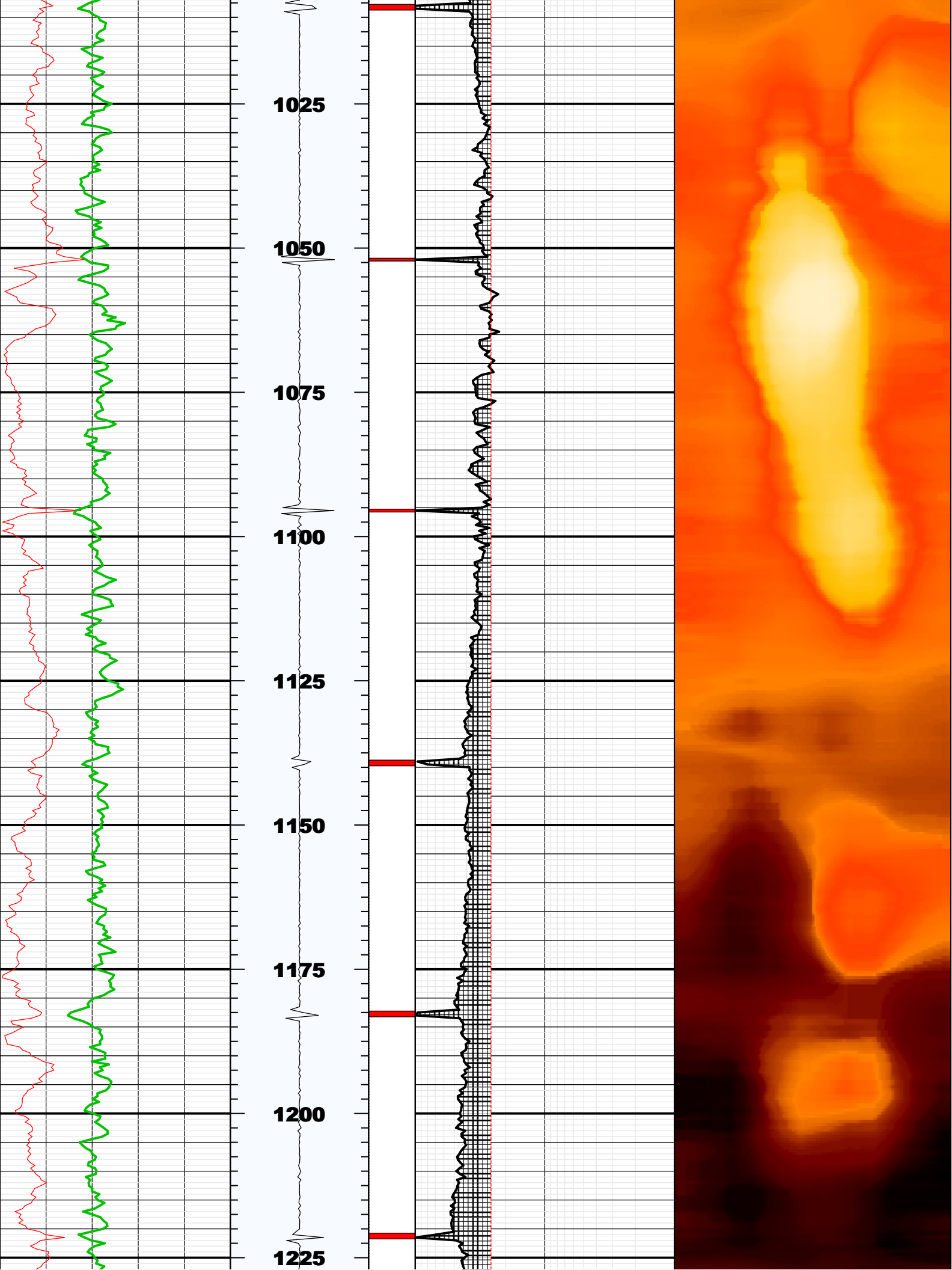


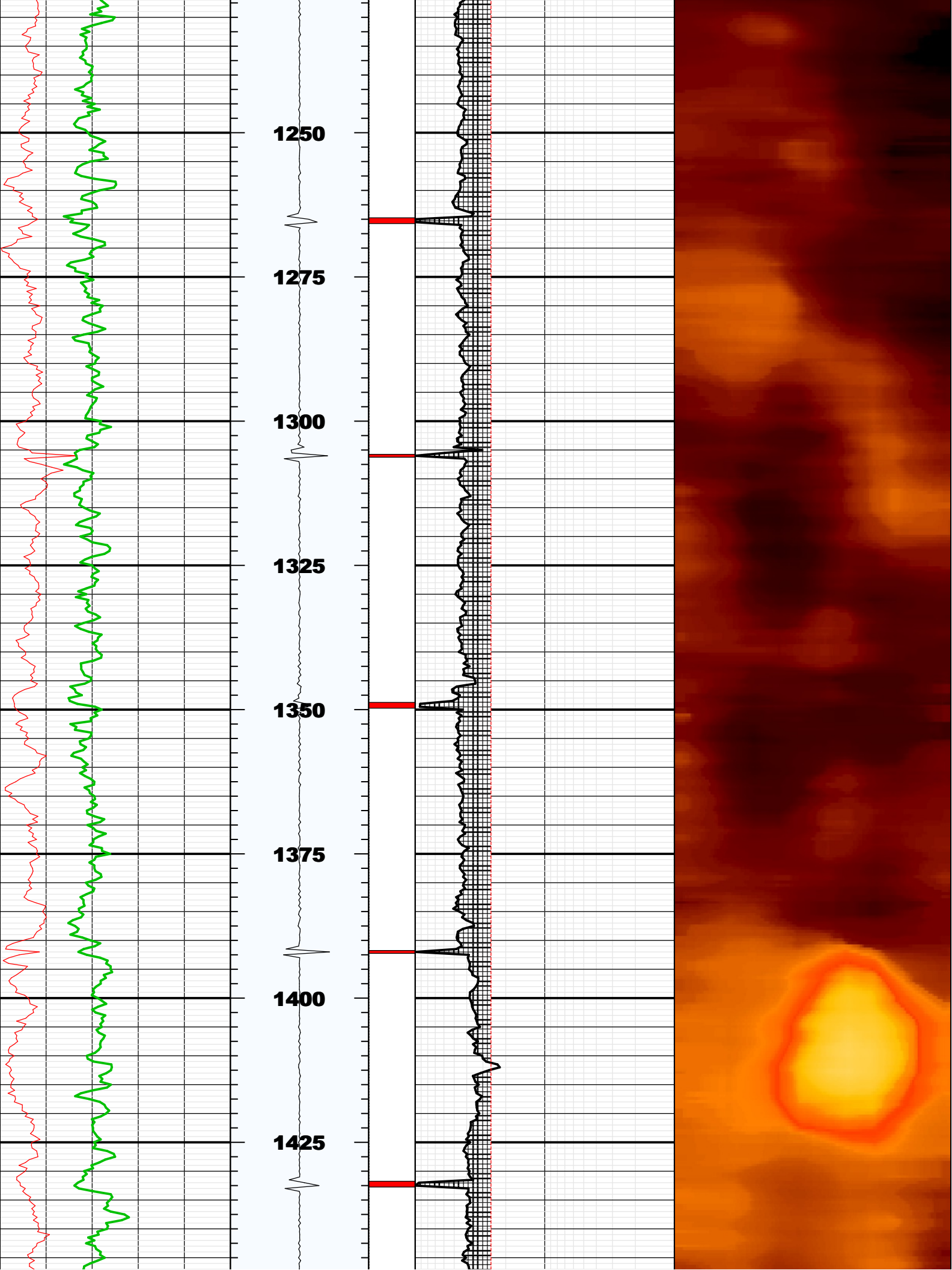


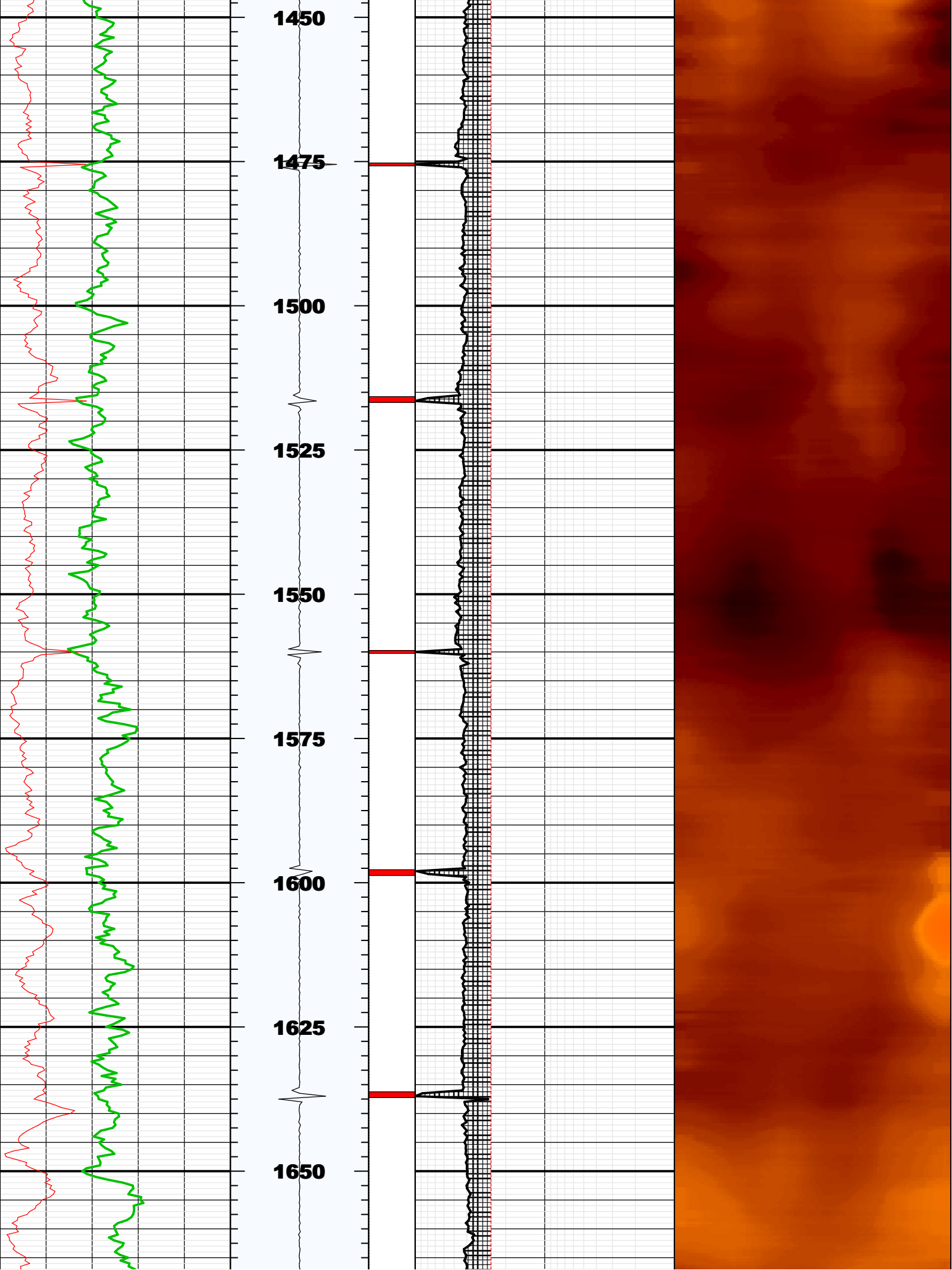


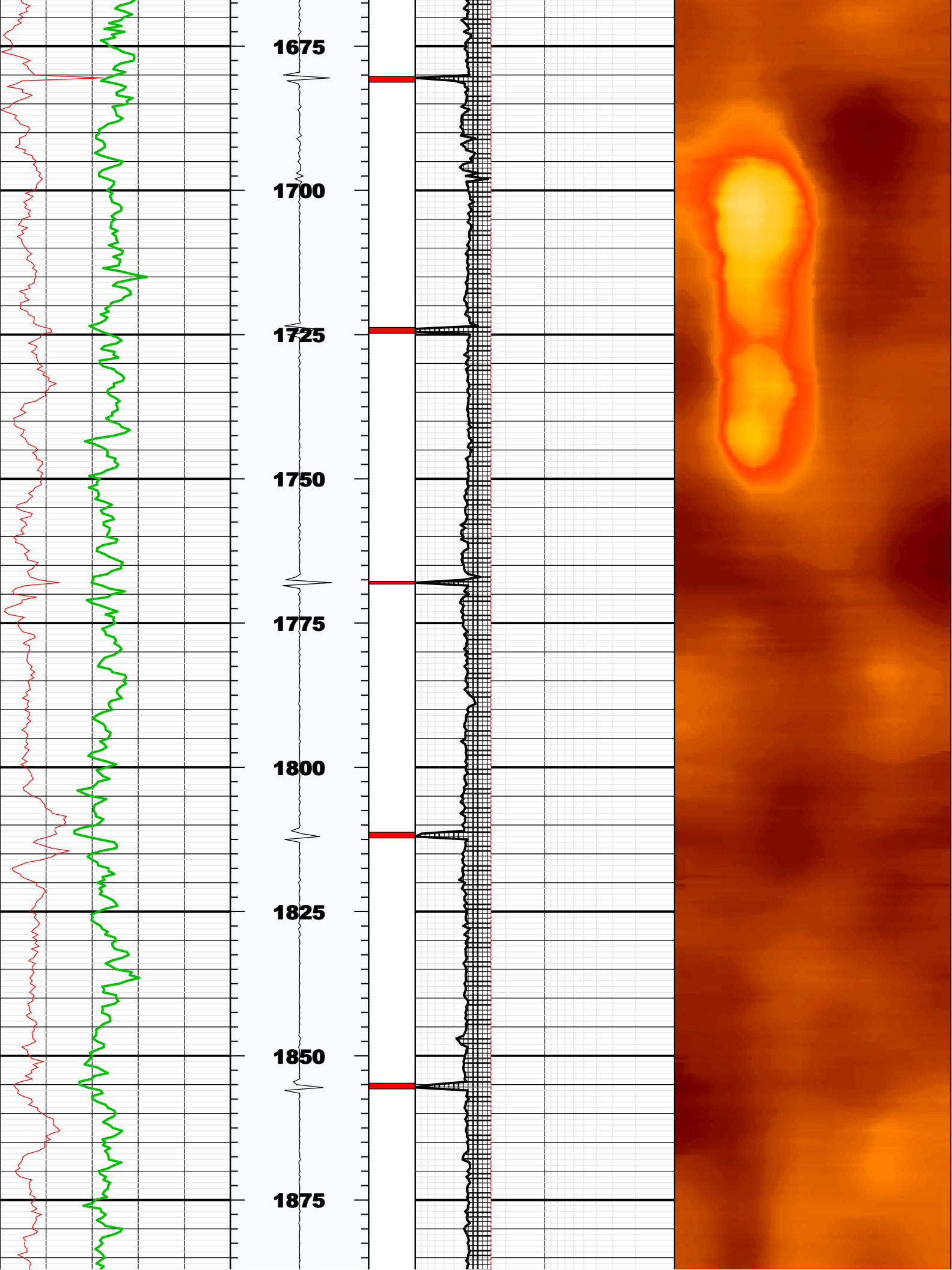


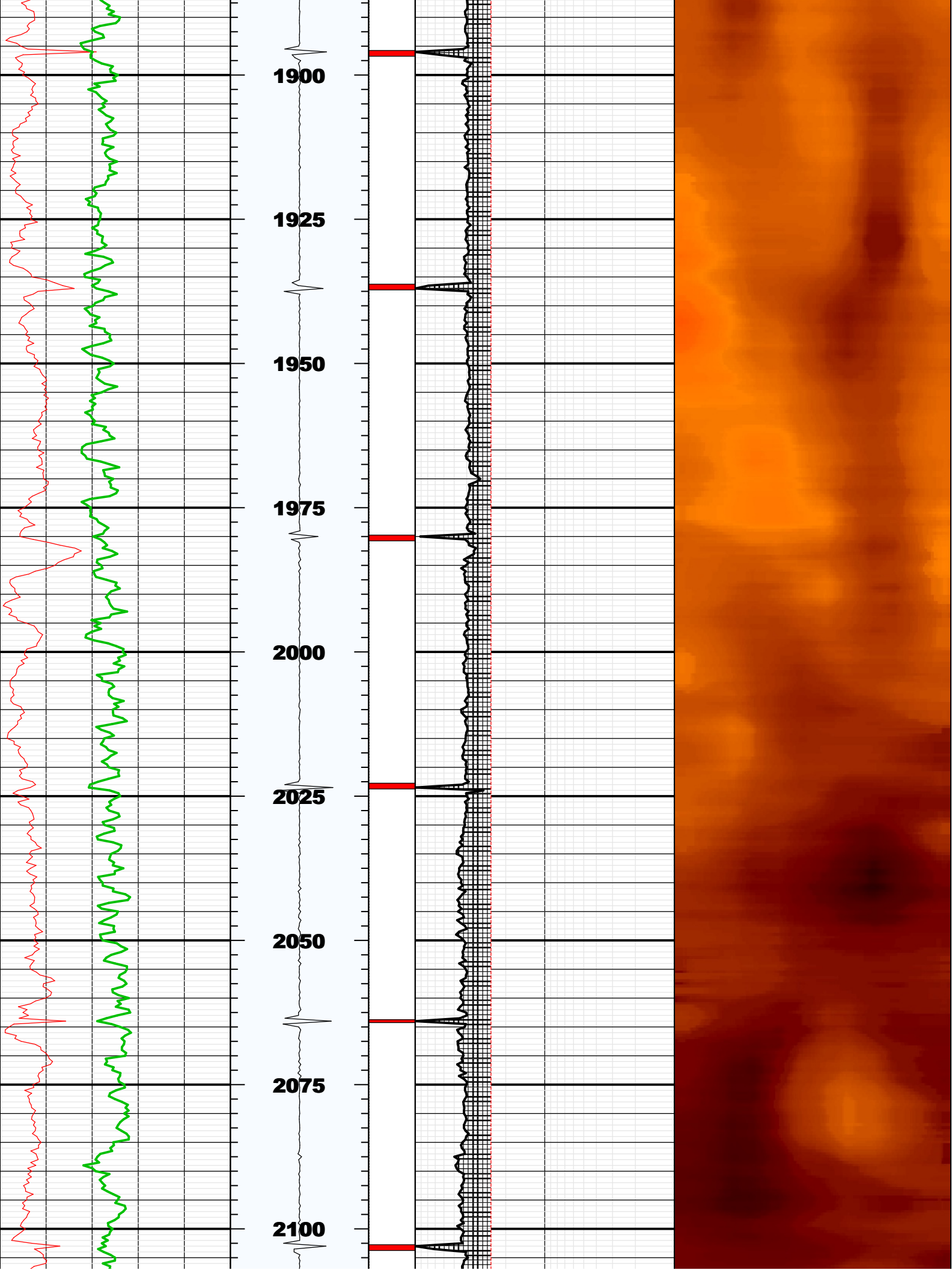


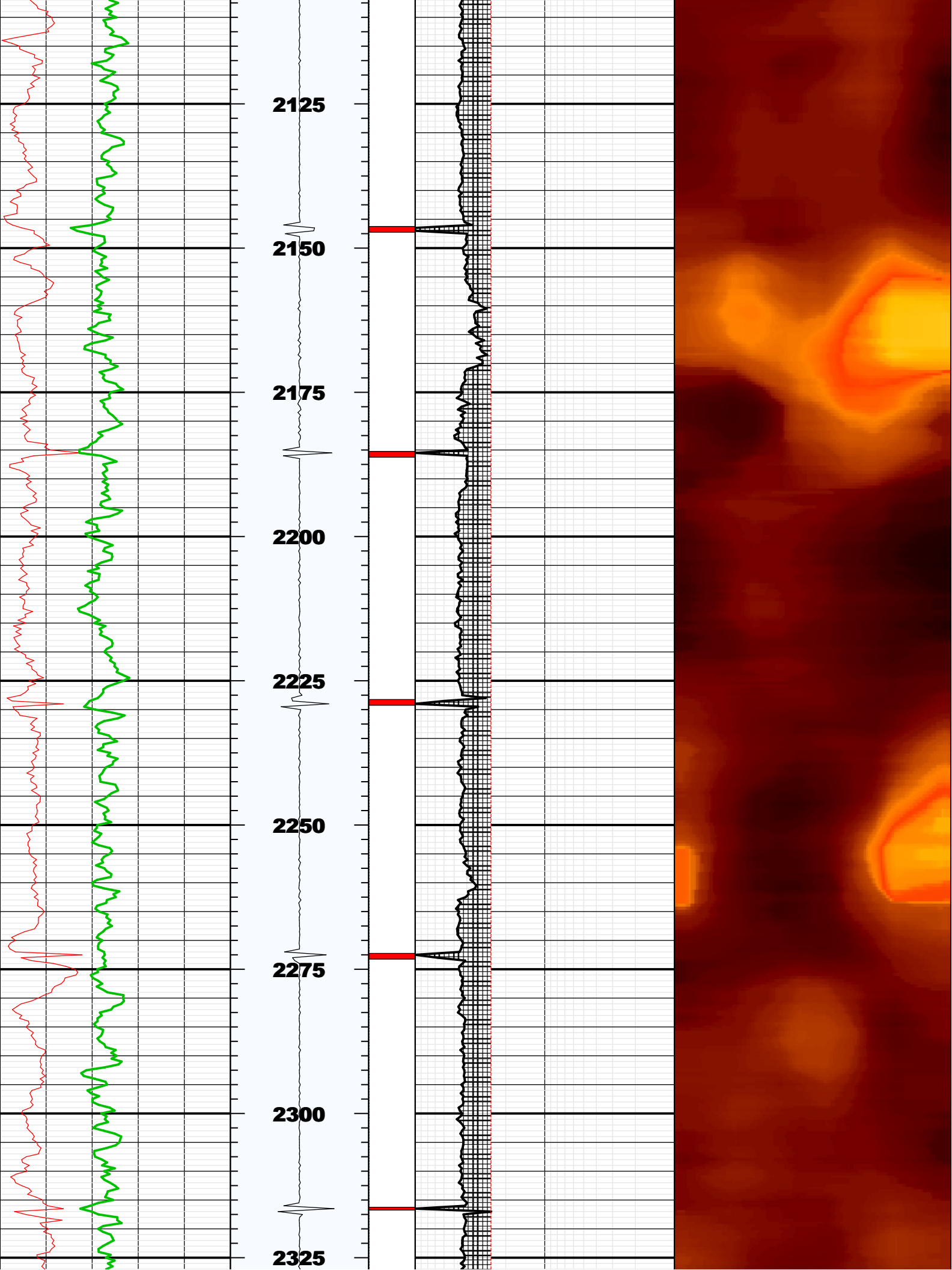


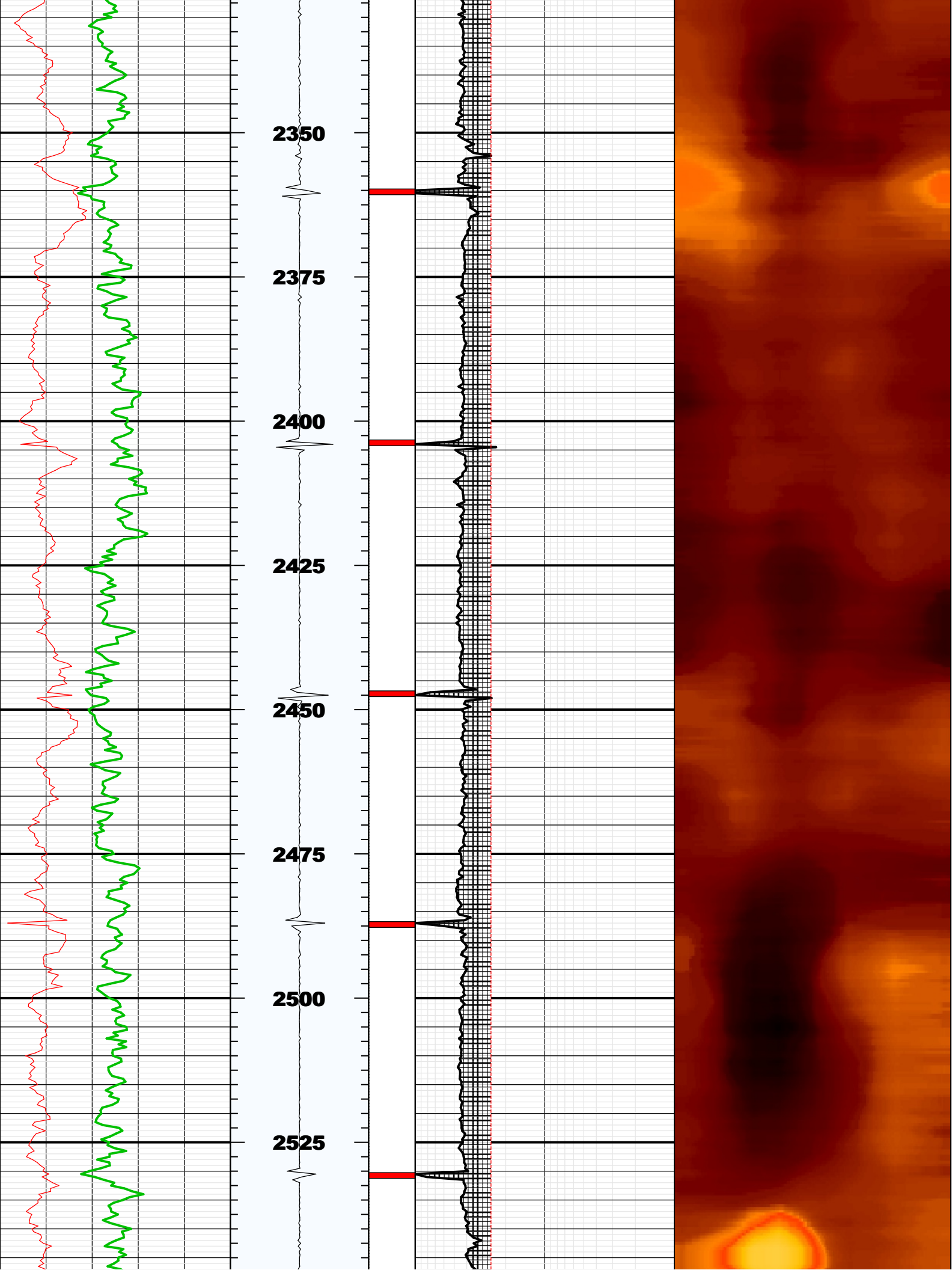


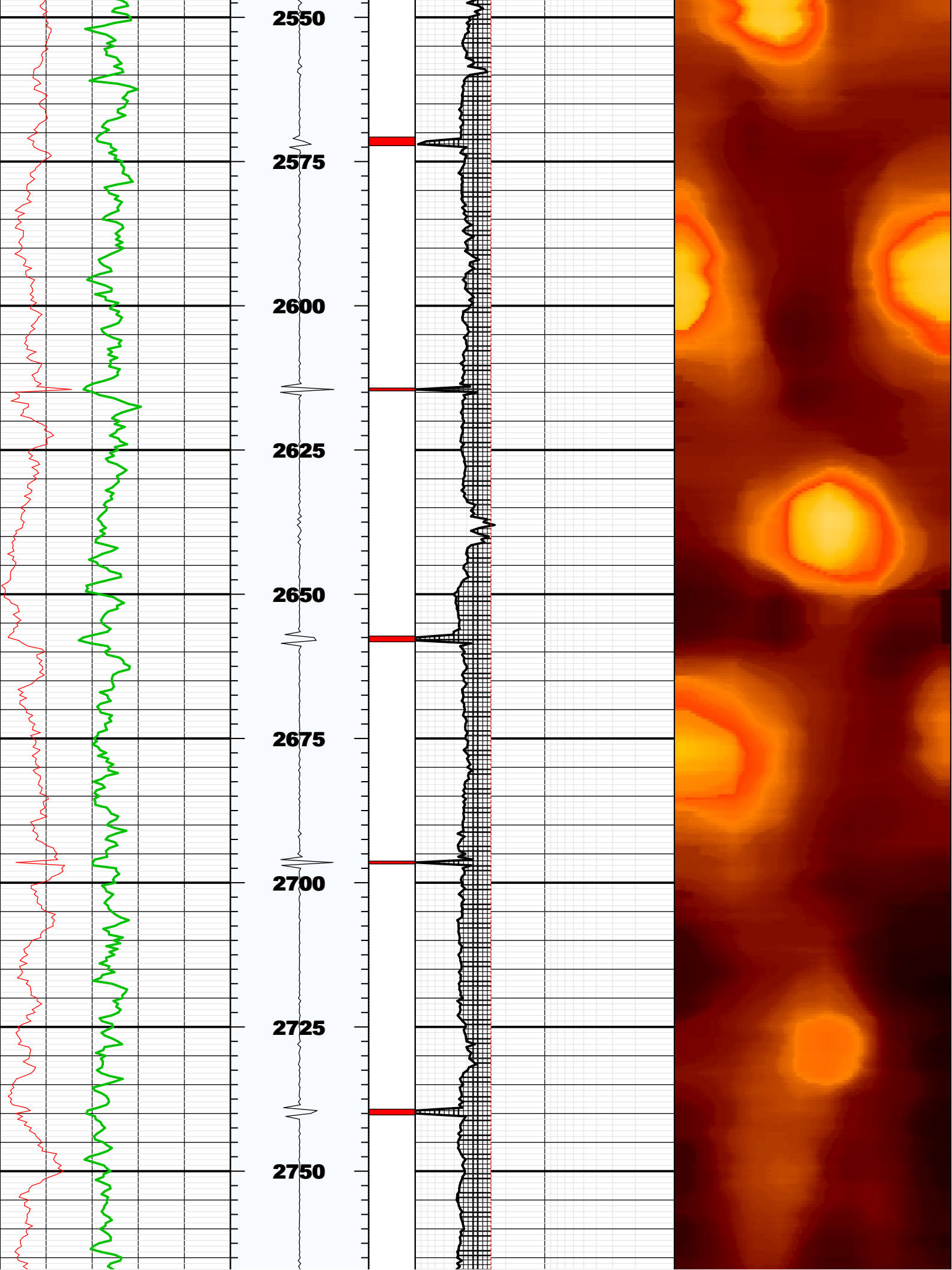


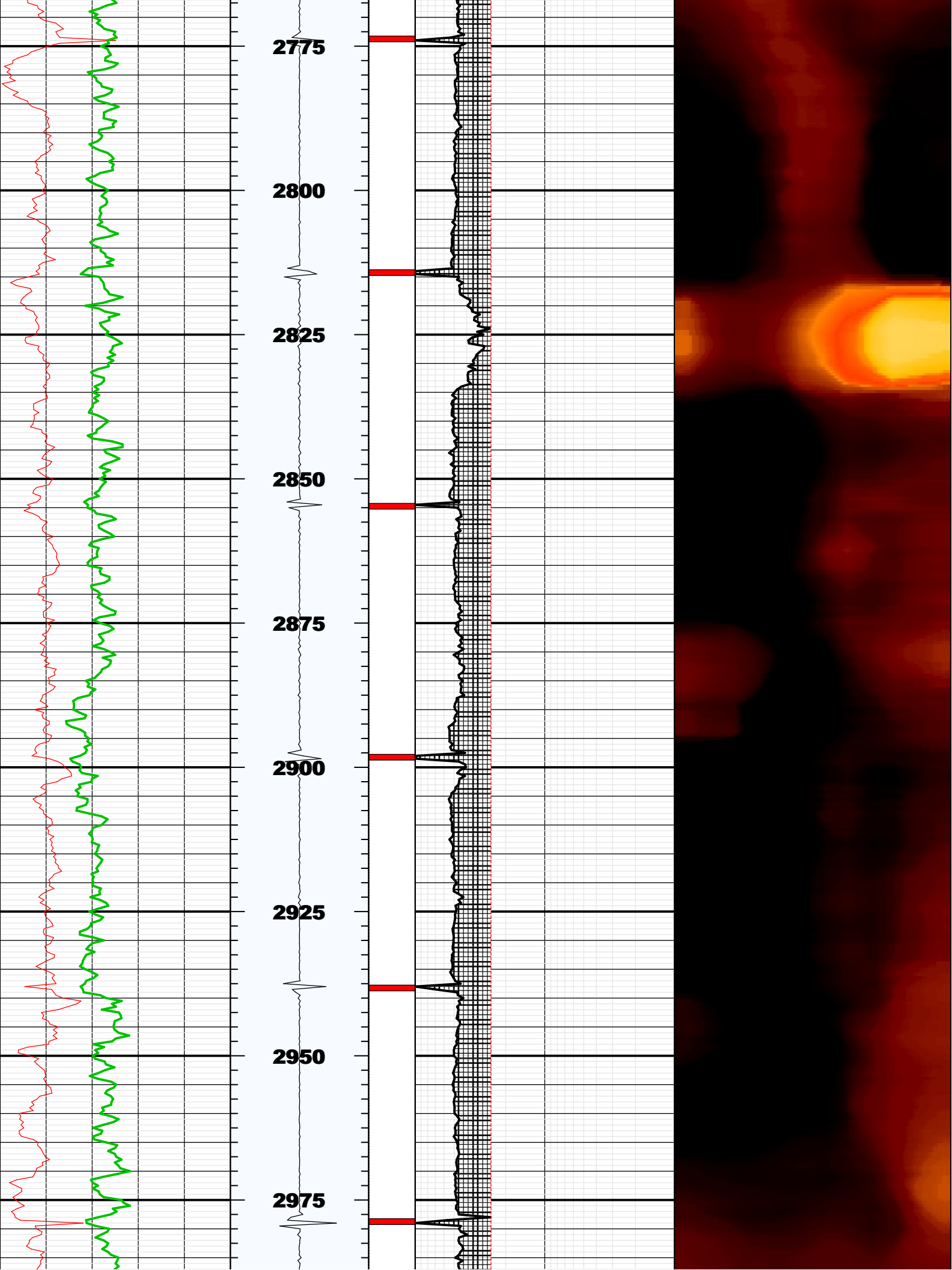


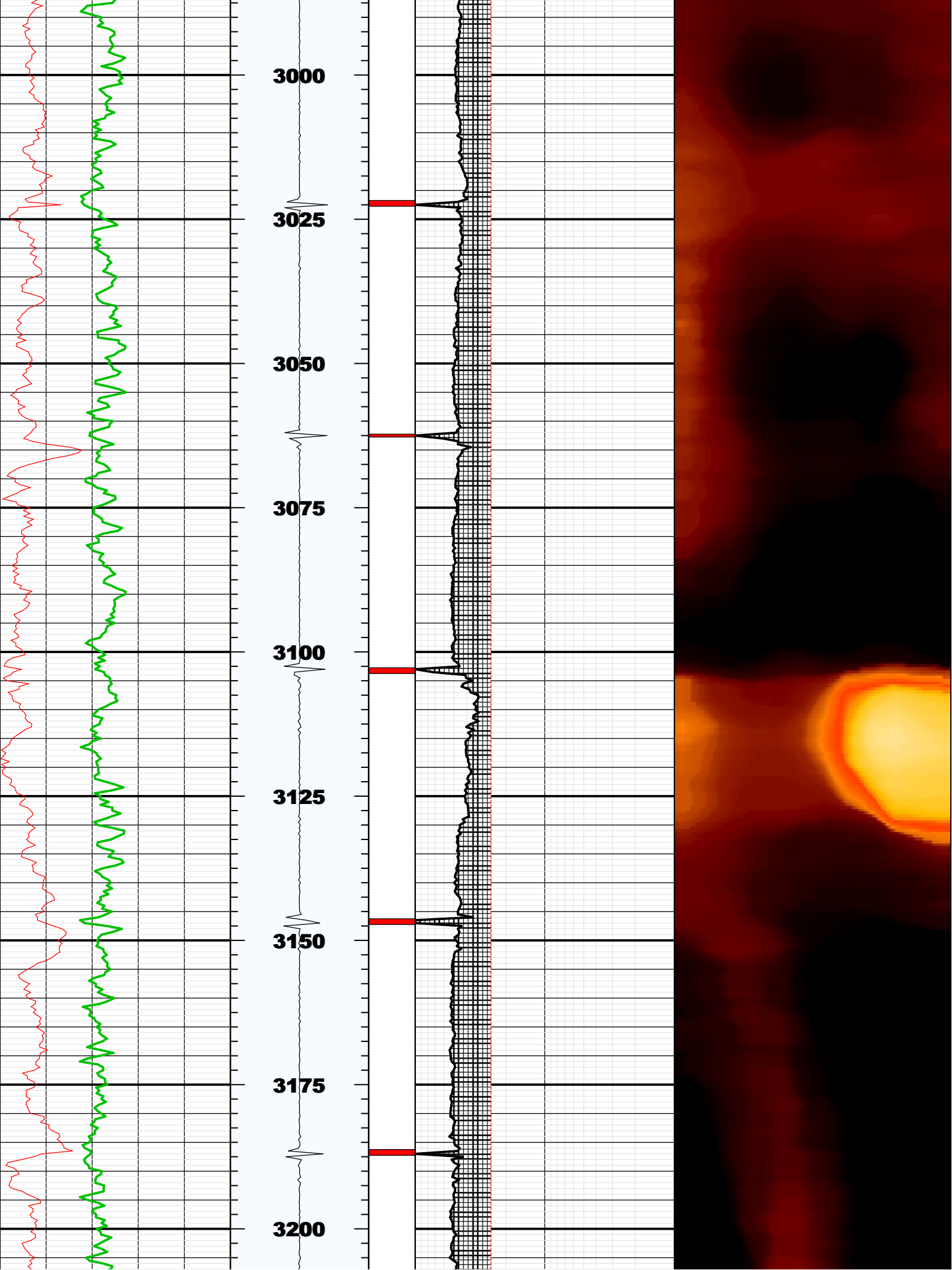


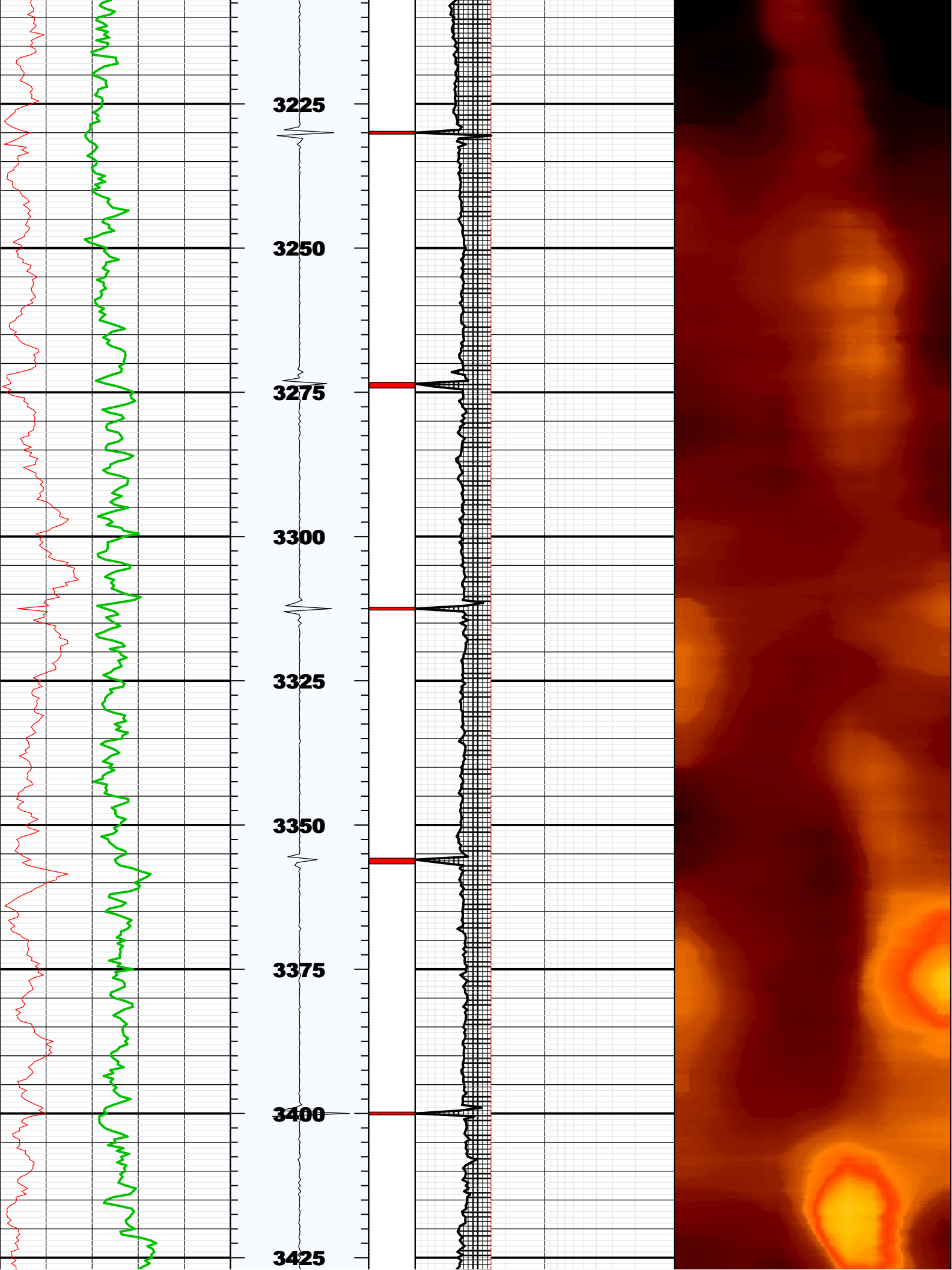


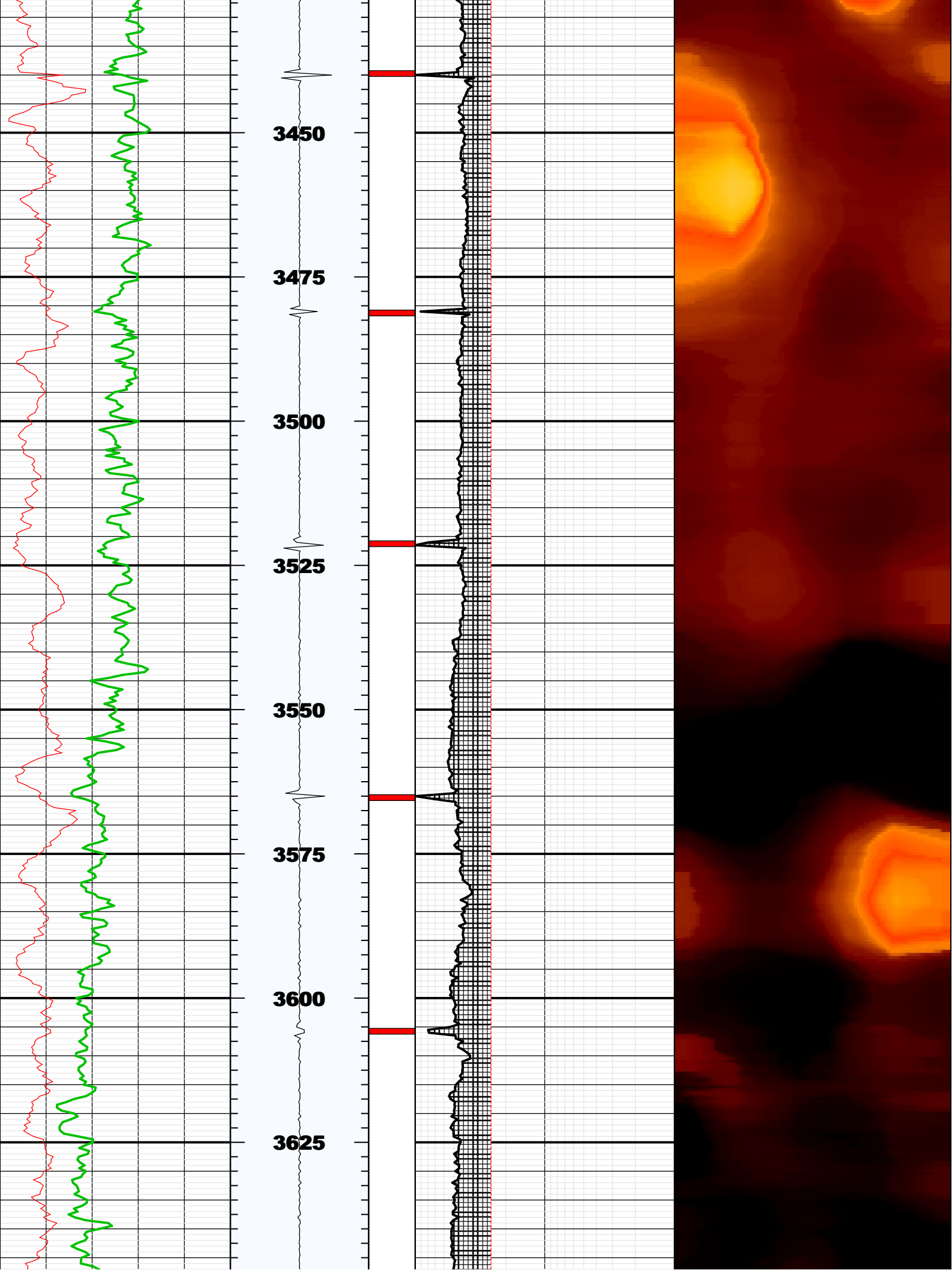


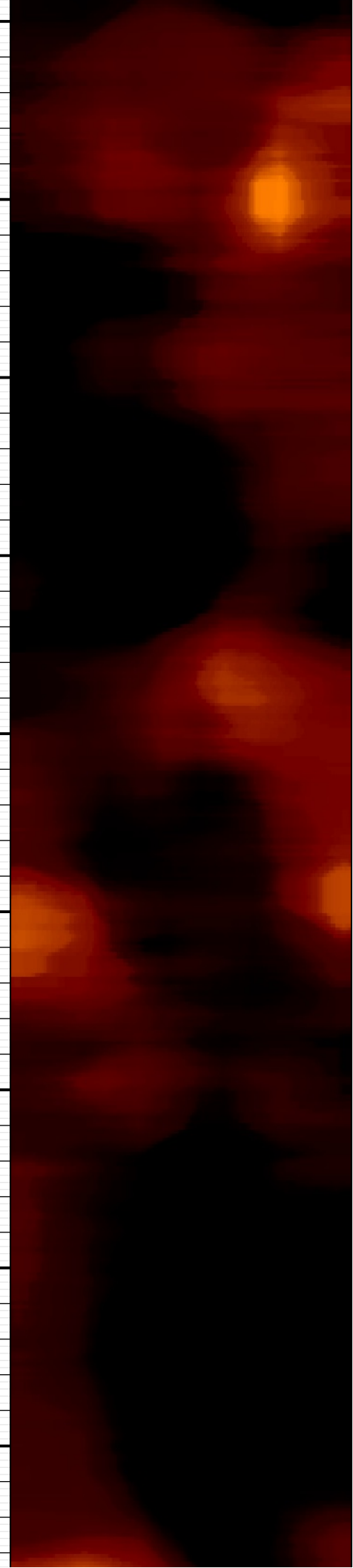
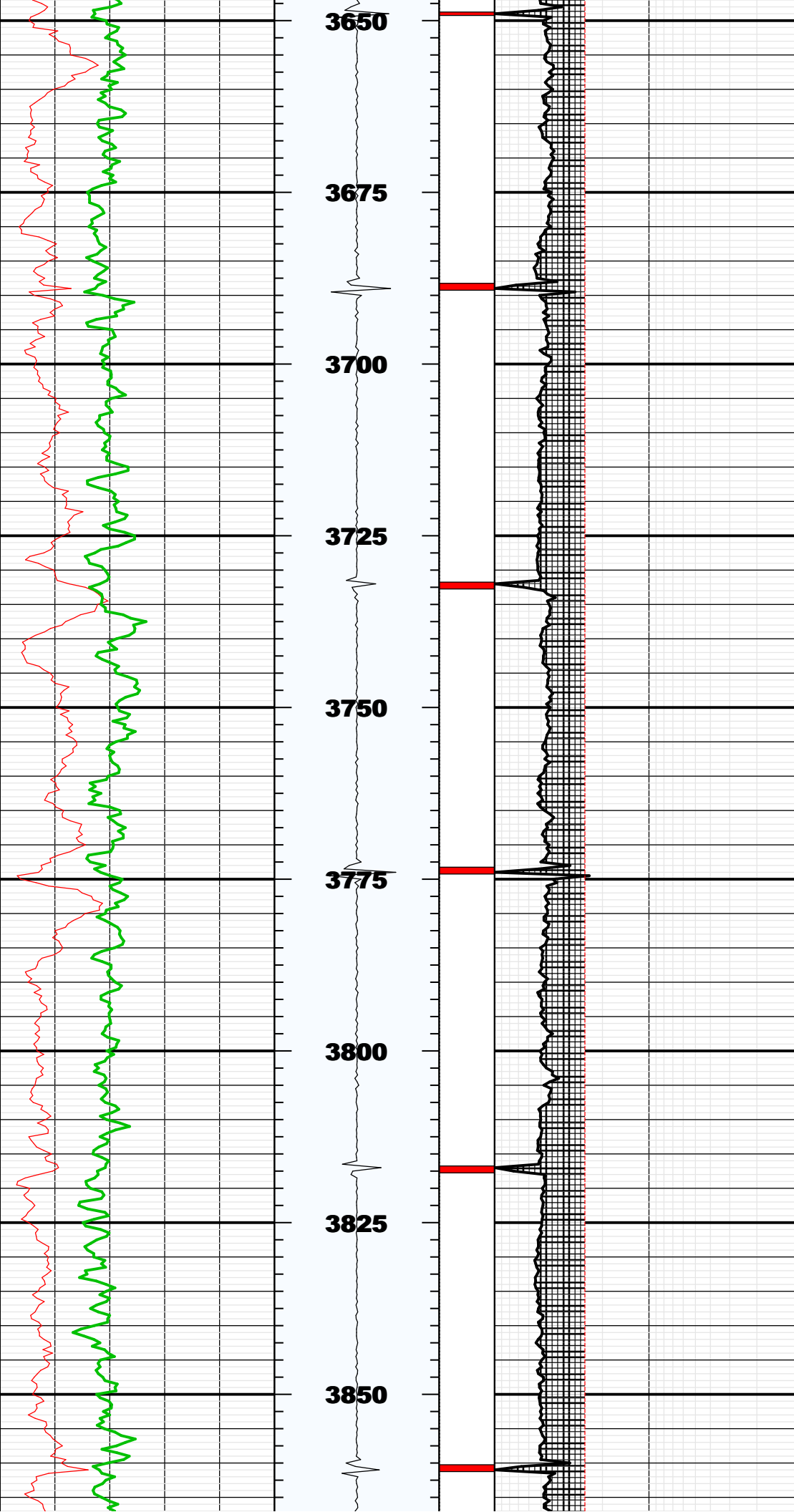


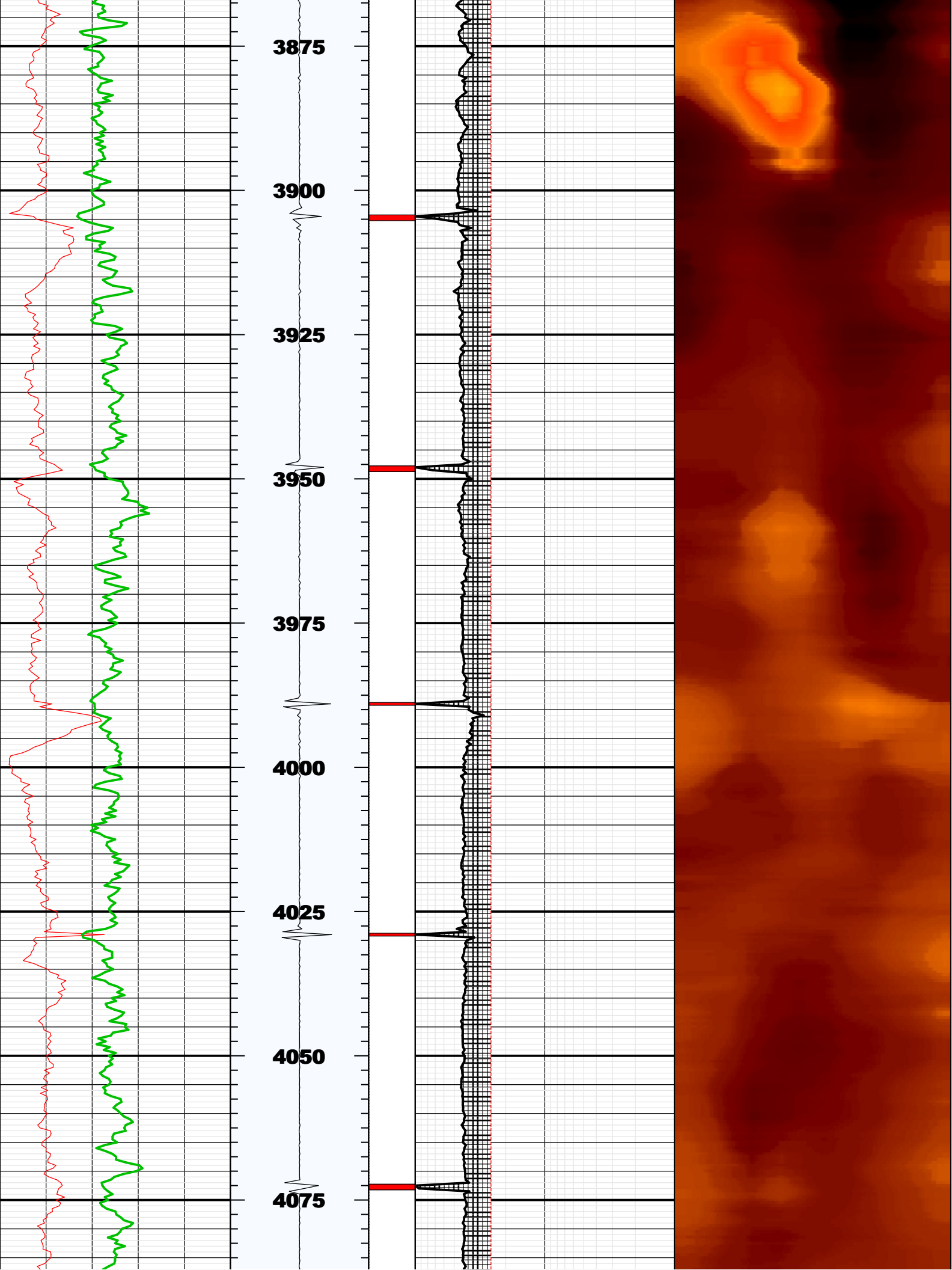


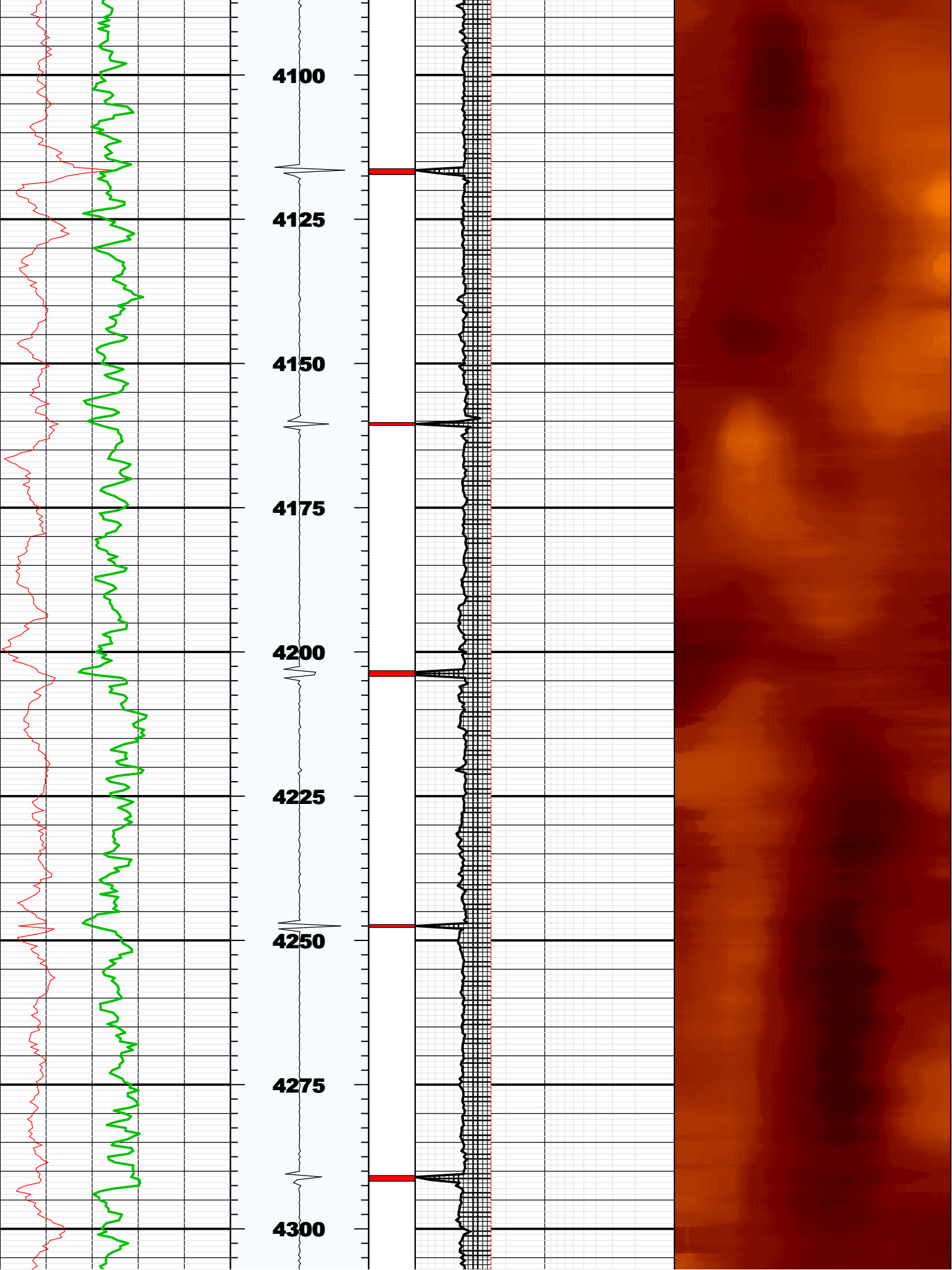


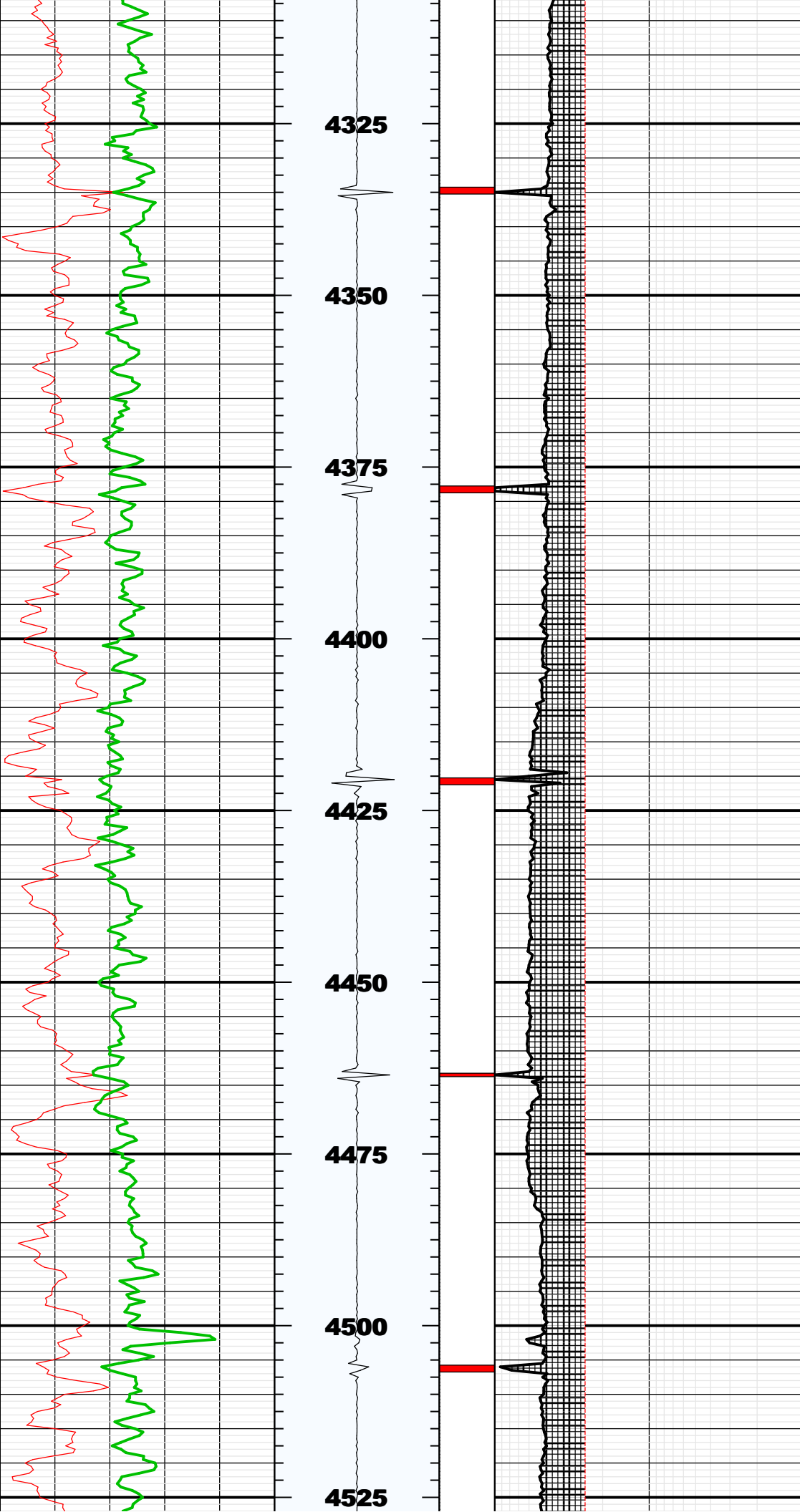


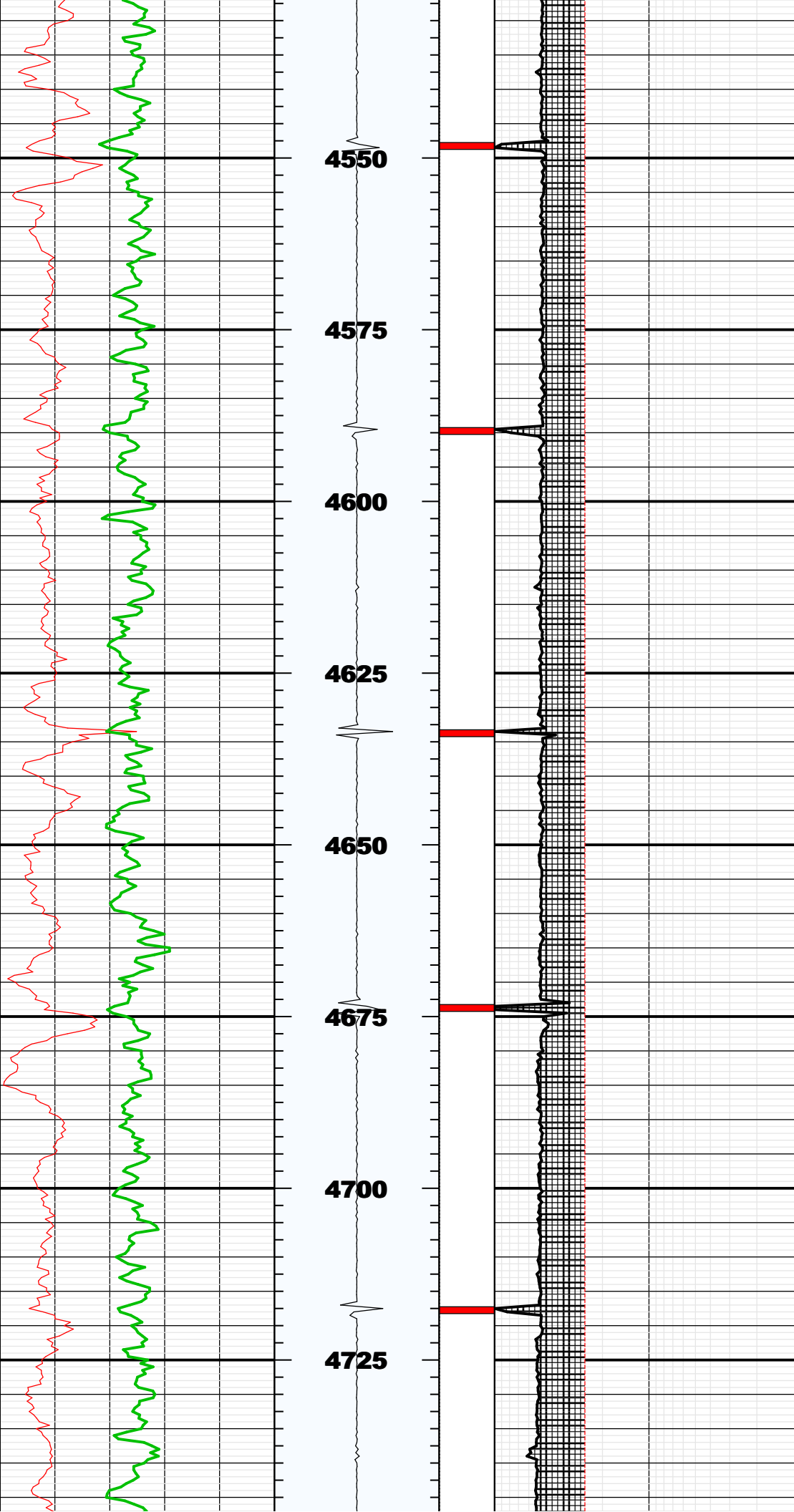


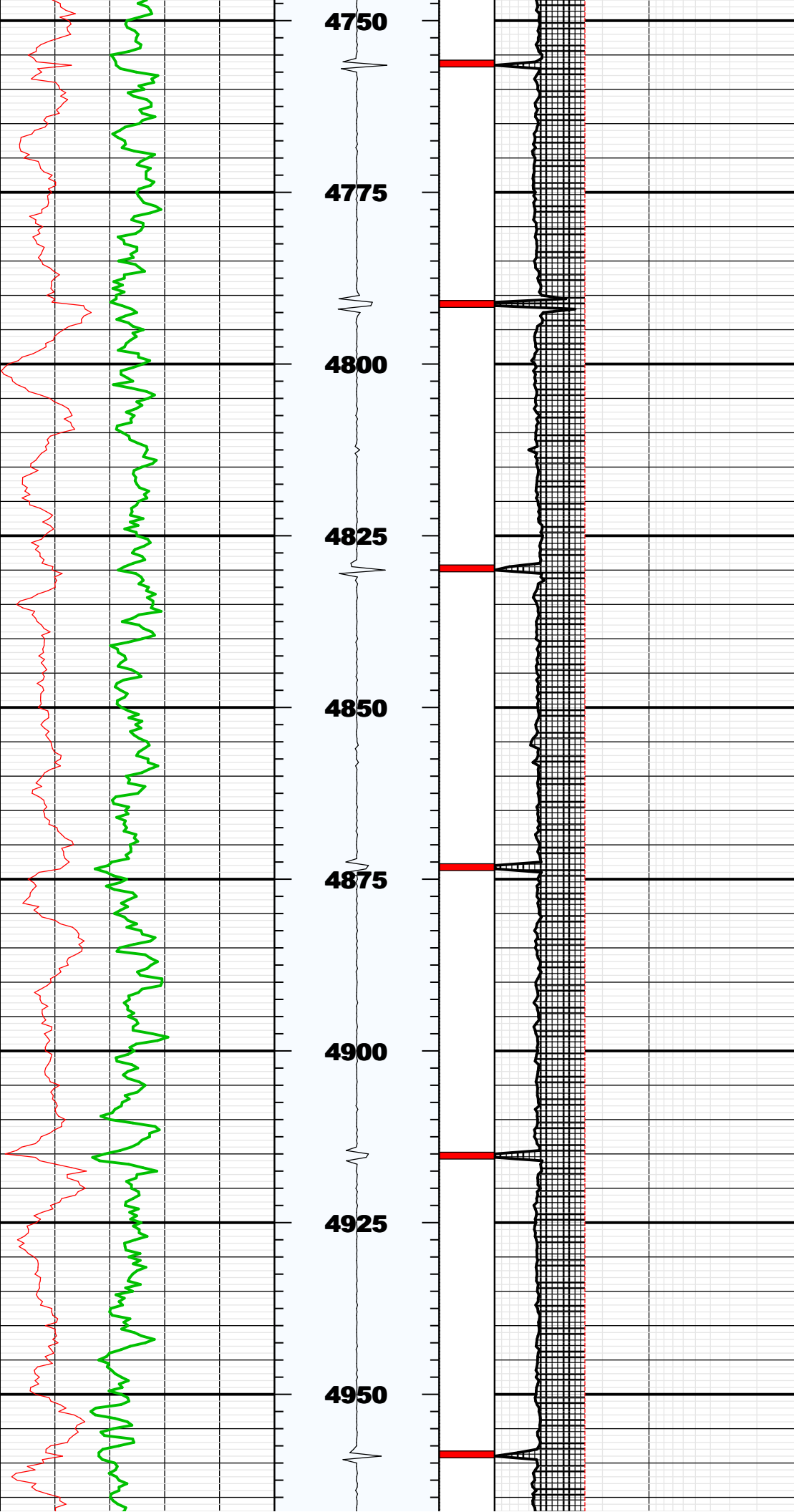


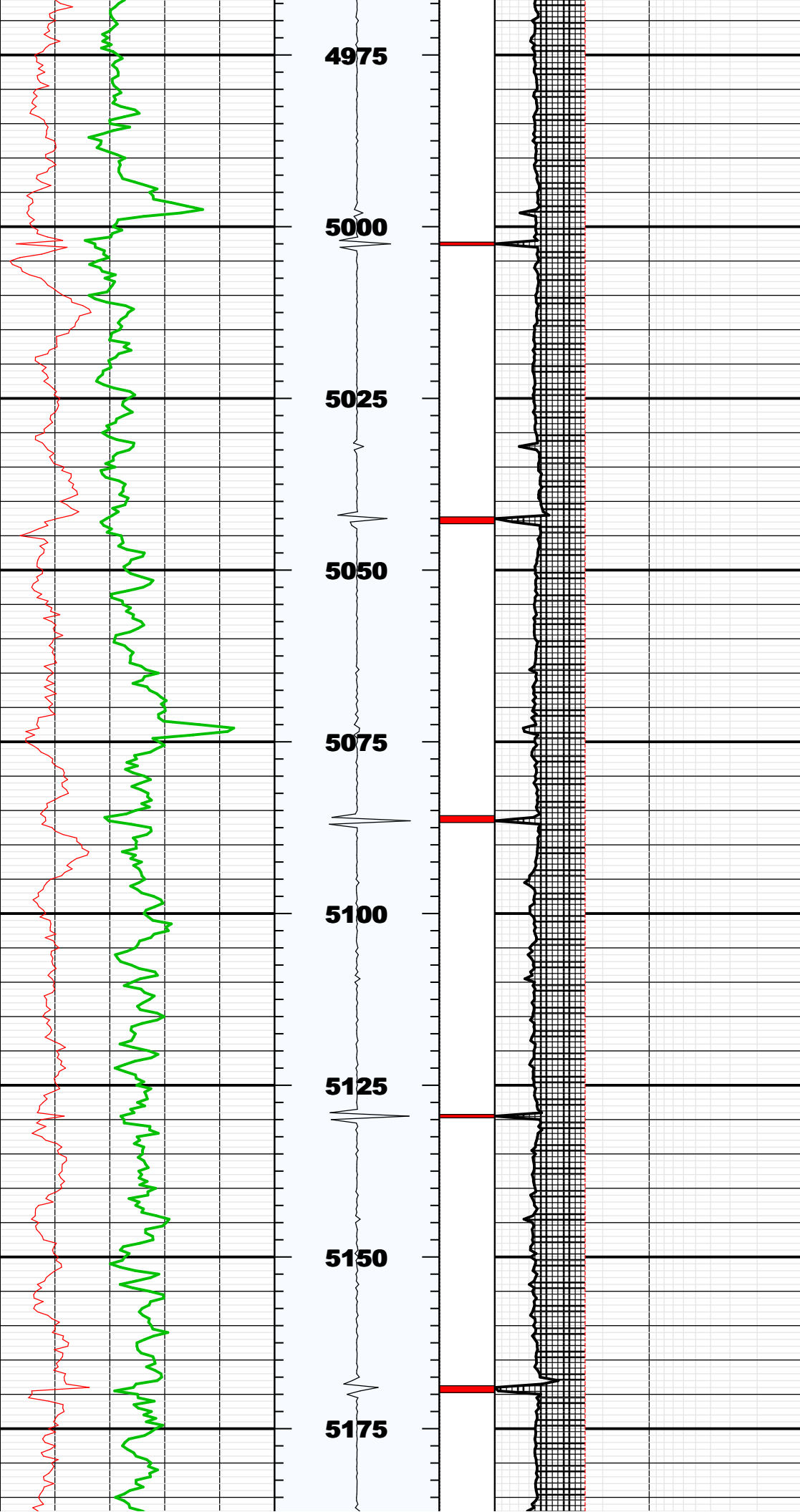


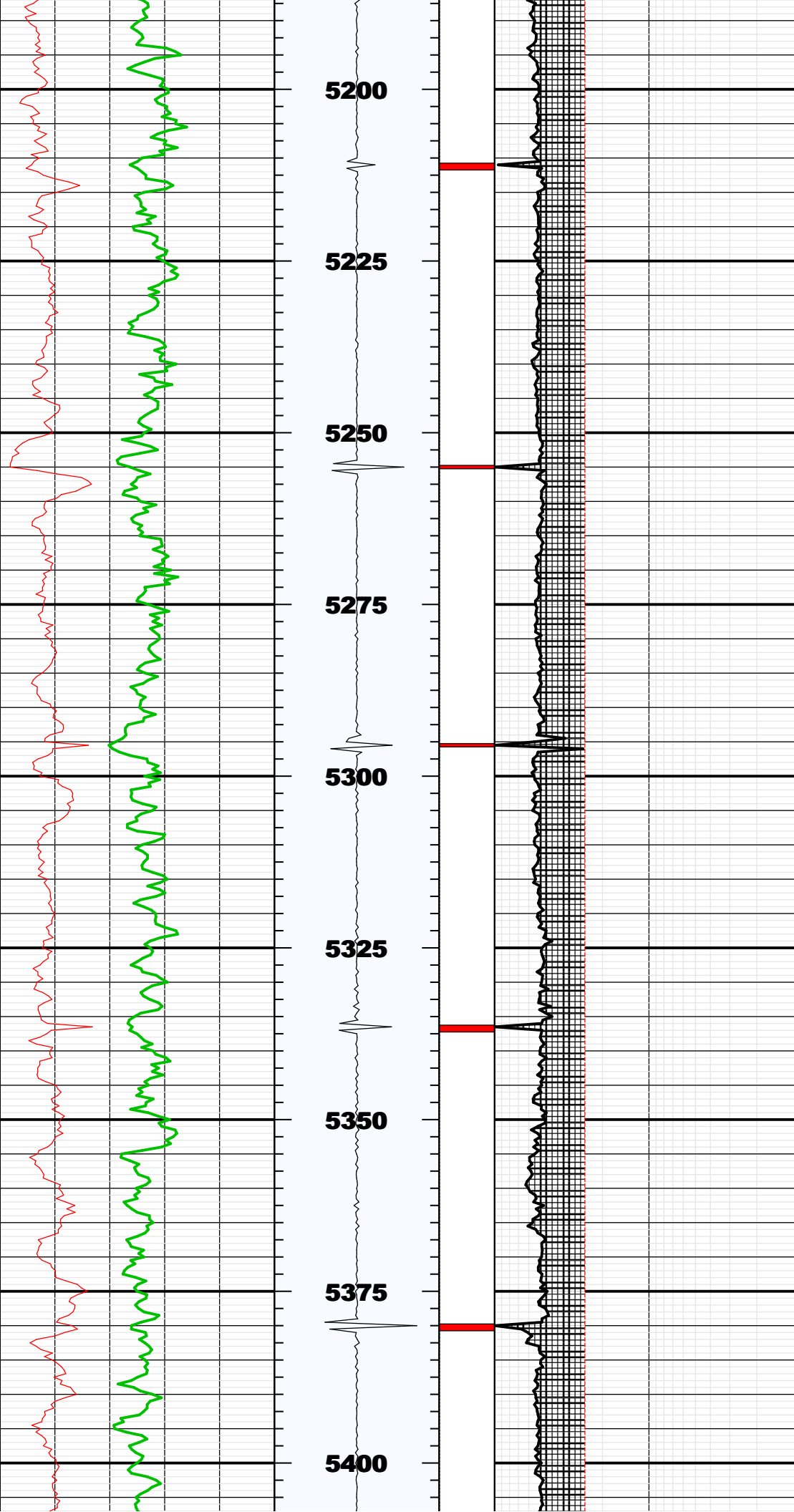


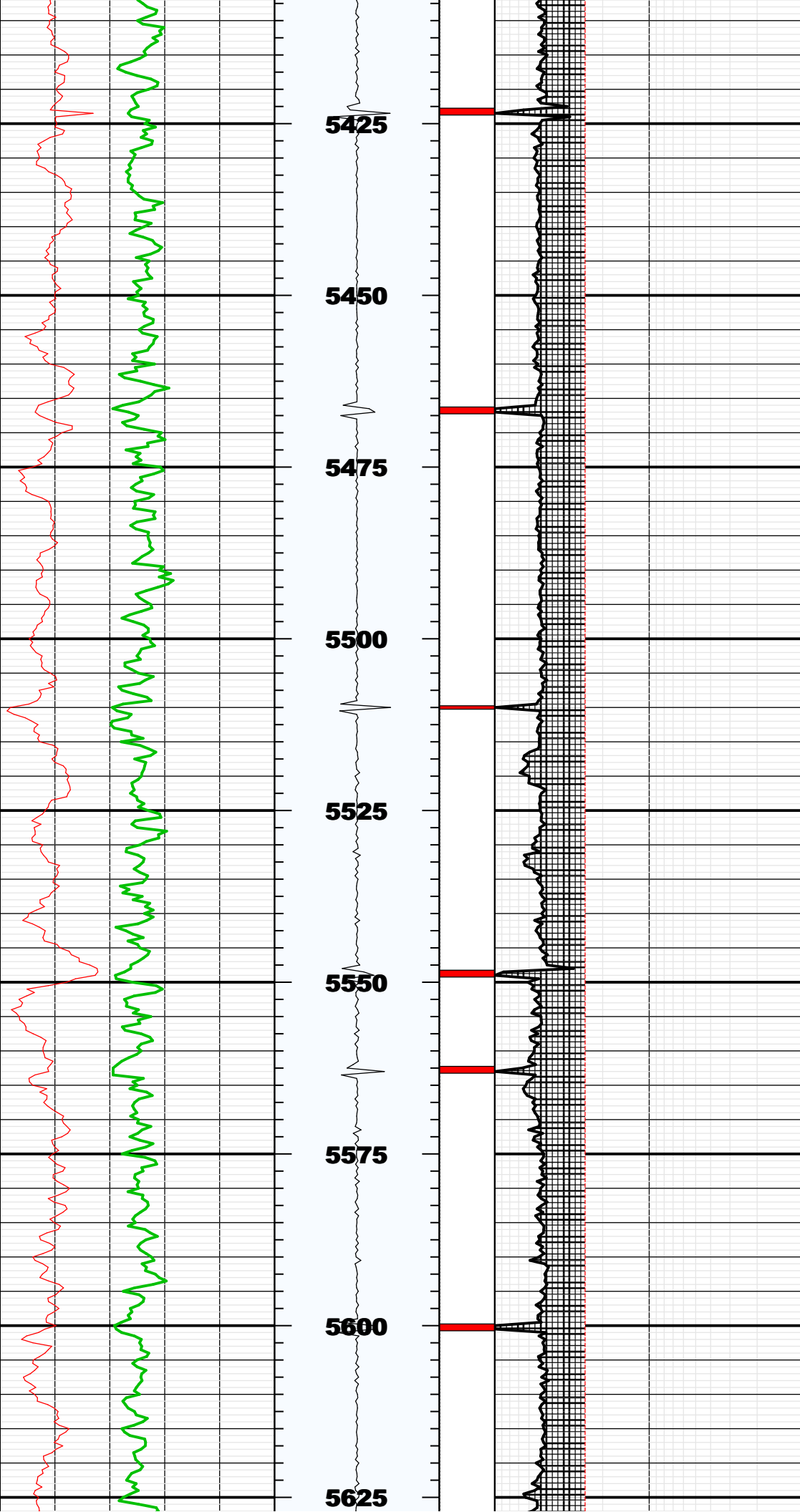


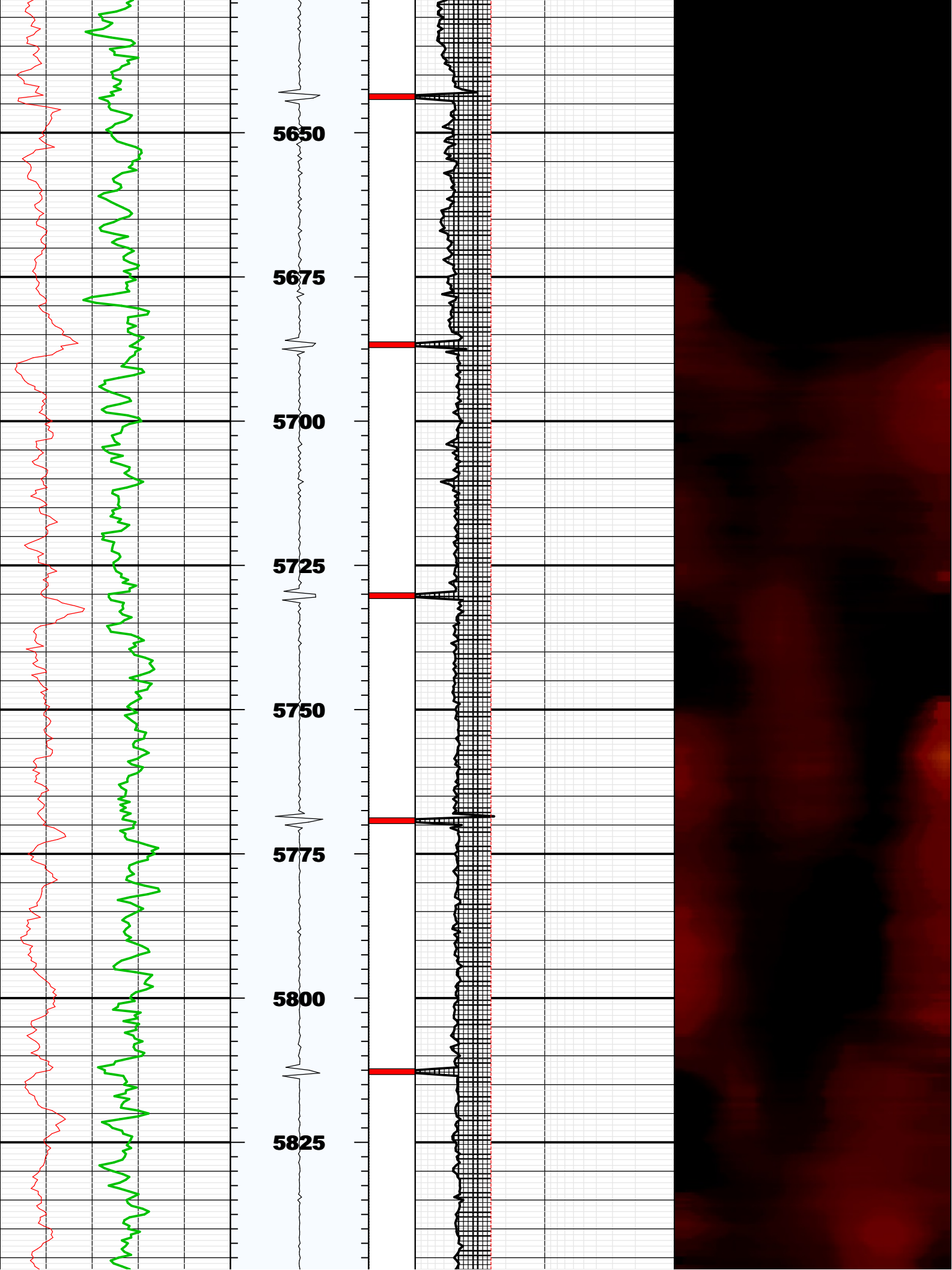


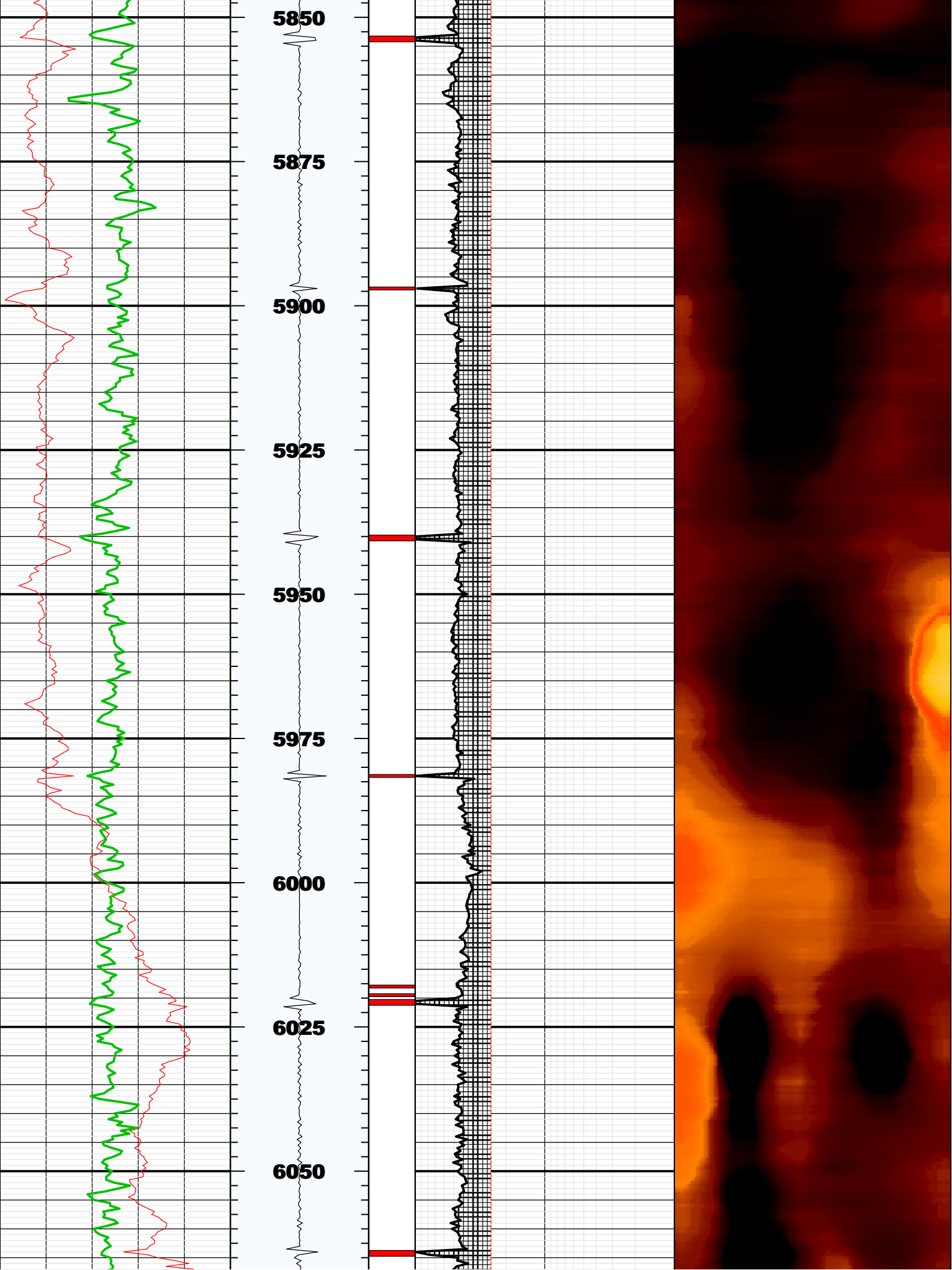


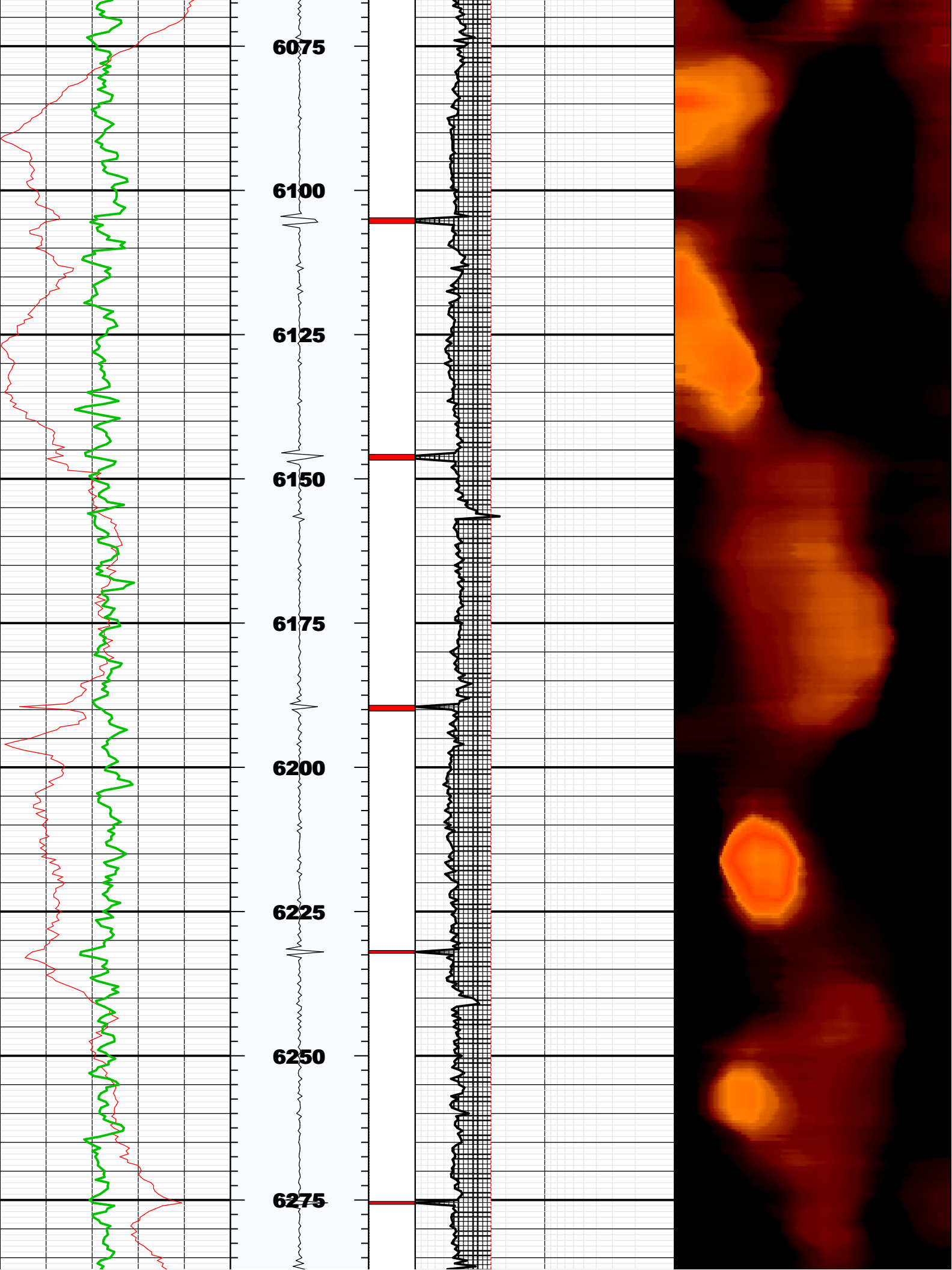


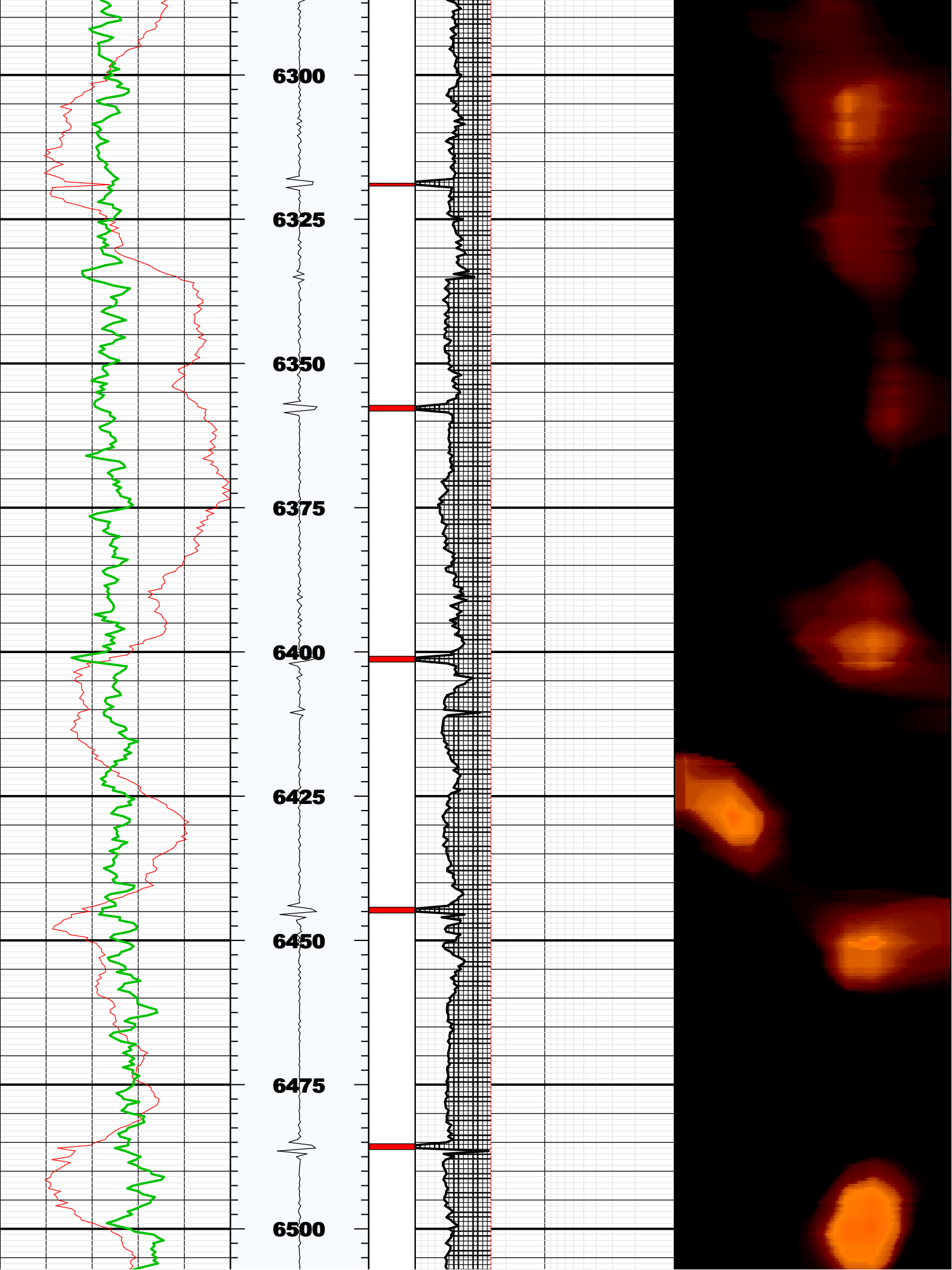


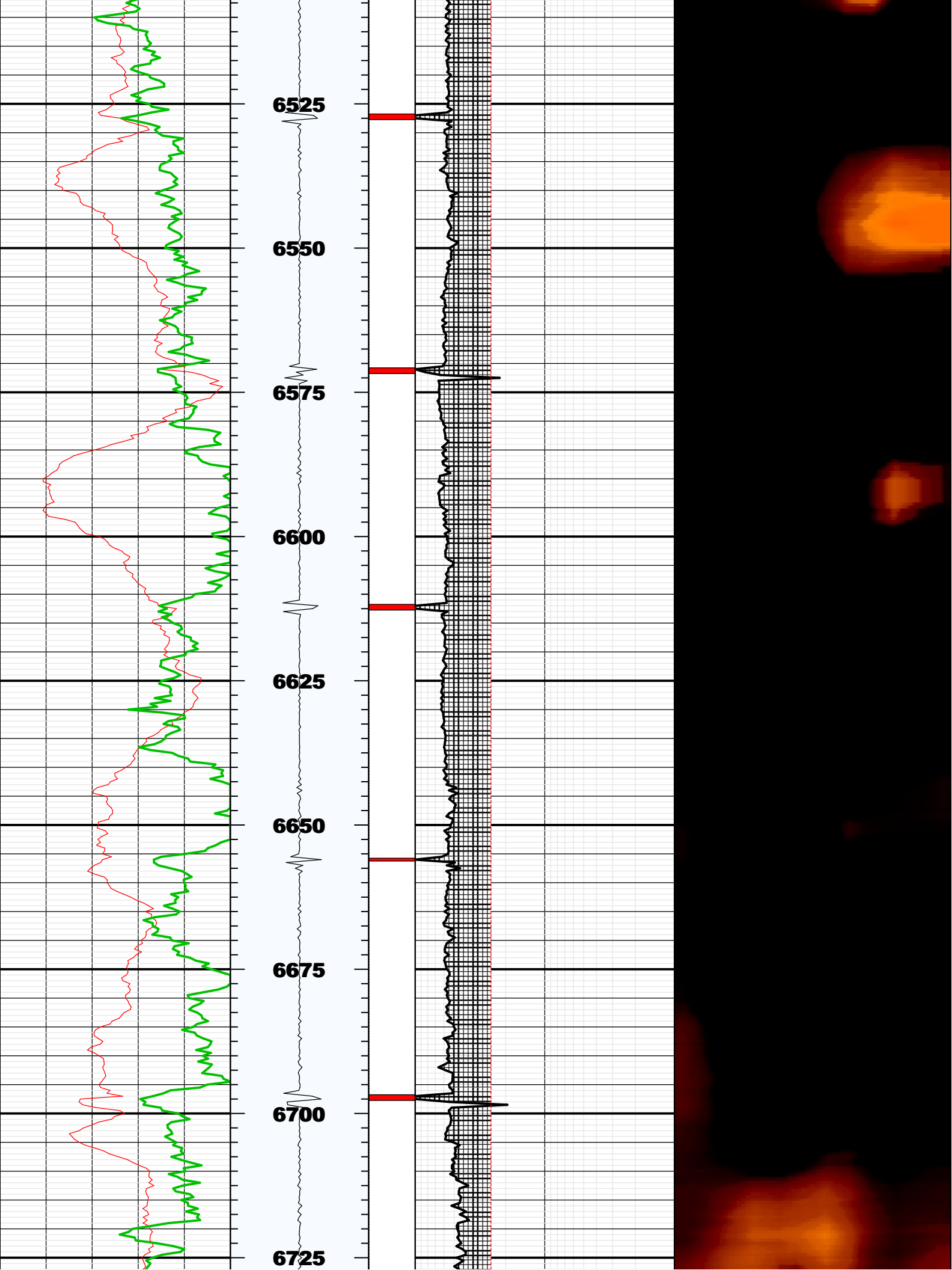


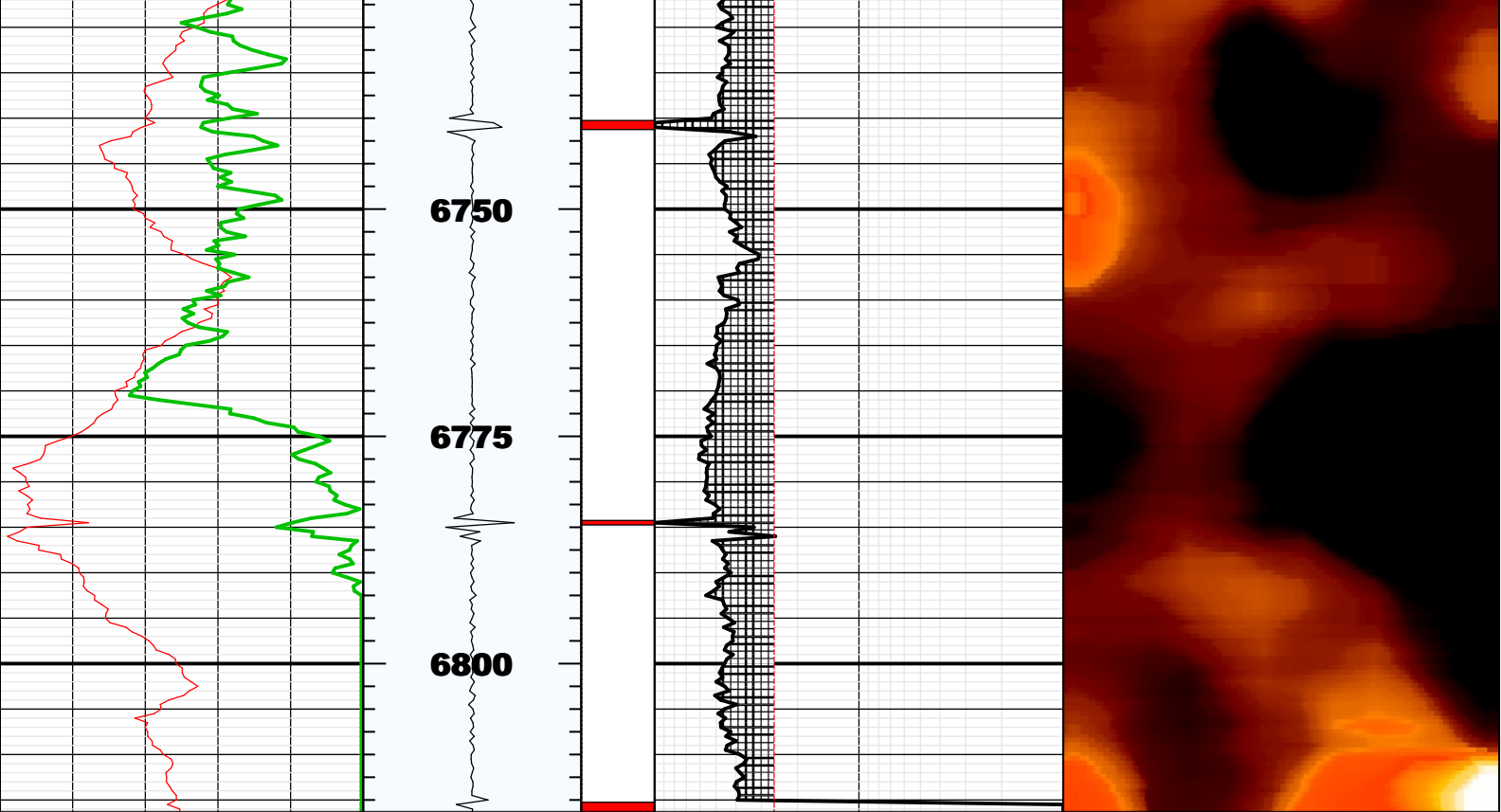








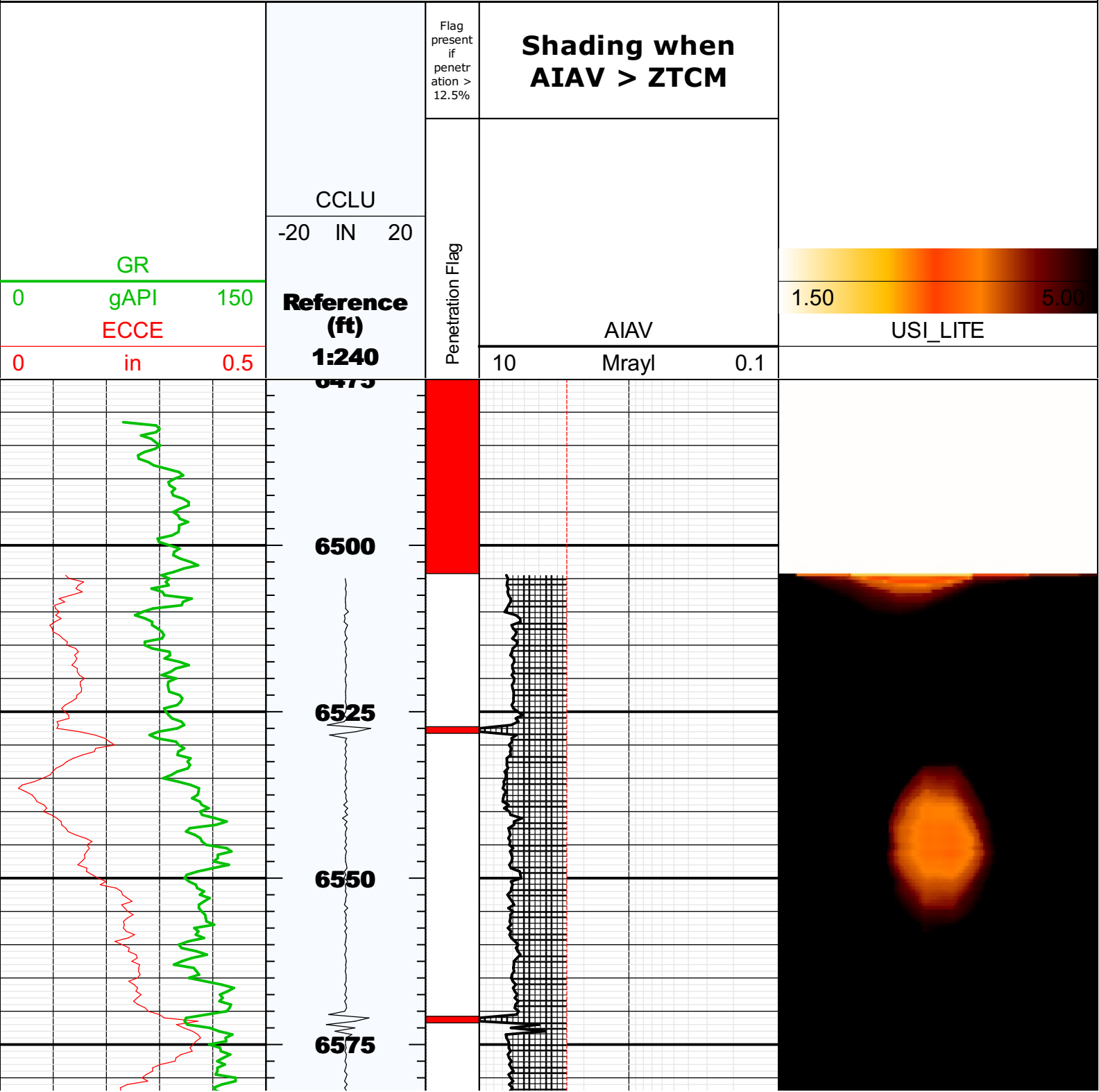


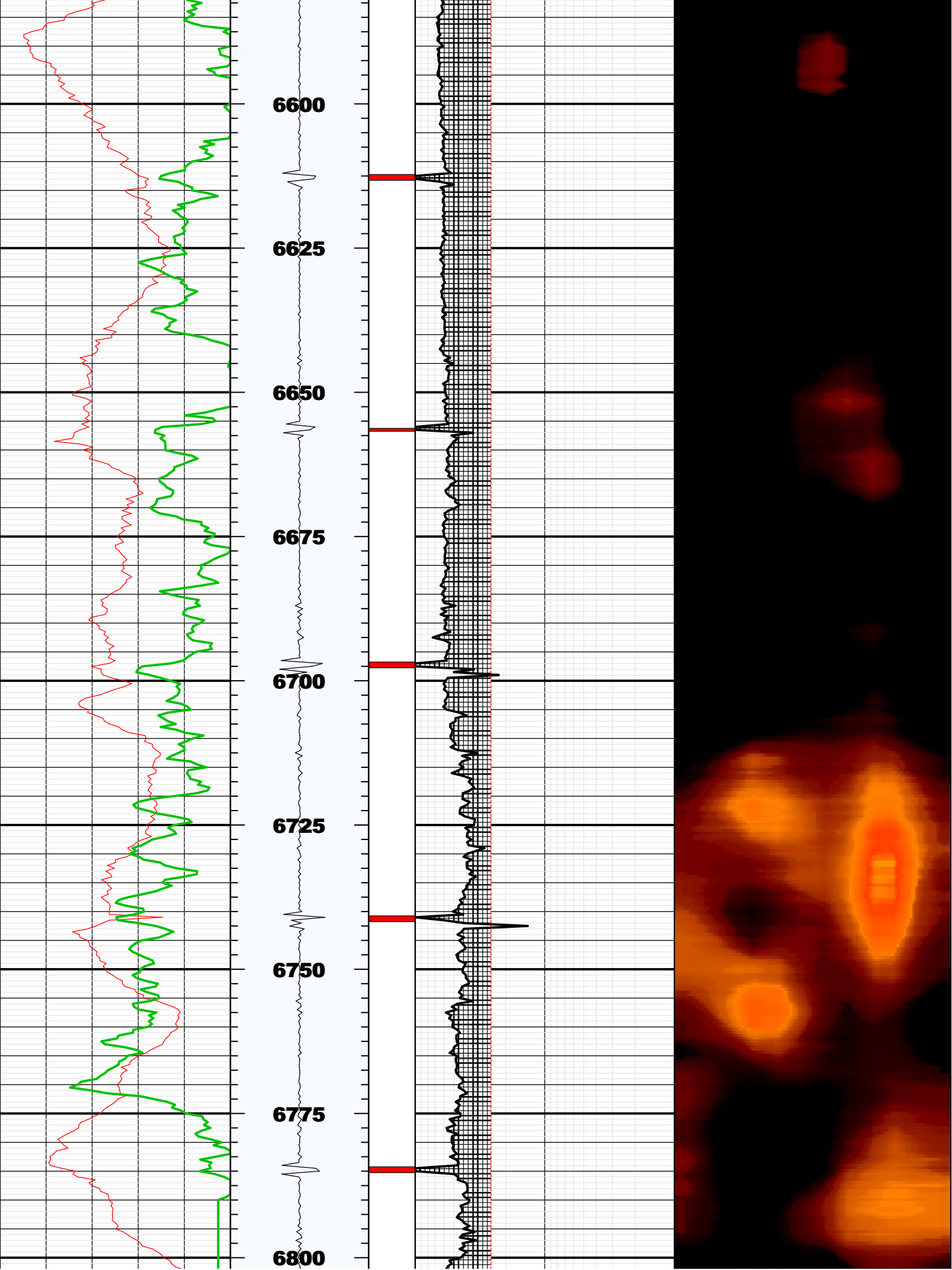


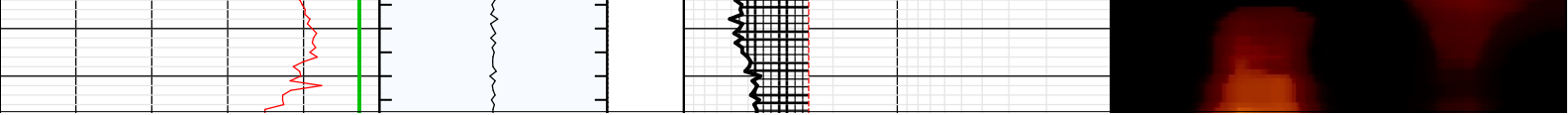
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	10.00000	LB/G	Drilling Fluid Density
DFVL	190.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	50	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	33.39590	US	Window Begin Time
WINE	78.39462	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: NCLP AA06-66-1BHNA
Field: Wattenberg







Fluid Properties Used for Main Pass

