

Company: Noble Energy Inc

Well: Wells Ranch AA35-65-1BHNC  
Field: Wattenberg  
County: Weld State: Colorado

USI-LITE									
County: Weld									
Field: Wattenberg									
Location: NWSW Sec. 36 T6N R63W									
Well: Wells Ranch AA35-65-1BHNC									
Company: Noble Energy Inc									
LOCATION									
Permanent Datum: GL									
Log Measured From: KB									
Drilling Measured From: KB									
Elev: K.B. 4798.0 F									
G.L. 4774.0 F									
D.F. 4797.0 F									
API Serial No. 05-123-38661-0000									
Section 36									
Township 6N									
Range 63W									
Logging Date 05-May-2014									
Run Number Run1 USIT									
Depth Driller 10946.0 F									
Schlumberger Depth 10946.0 F									
Bottom Log Interval 6822.0 F									
Top Log Interval -999.2 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 -999.2 F									
To 10946.0 F									
Casing Size 7.00 IN									
Weight 26.00 LB/F									
Grade P110									
From 0.0 F									
To 6964.9 F									
Max Recorded Temp -999.2									
Logger on bottom (date) 05-May-2014									
Location Ft. Morgan CO									
Recorded By Tim Hoffman									
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: 1109 Calibration Date: Calibrator Serial Number: Number Of Calibration Points: Calibration RMS: Calibration Peak Error:	Serial Number: Length: 11500.00000

## DISCLAIMER

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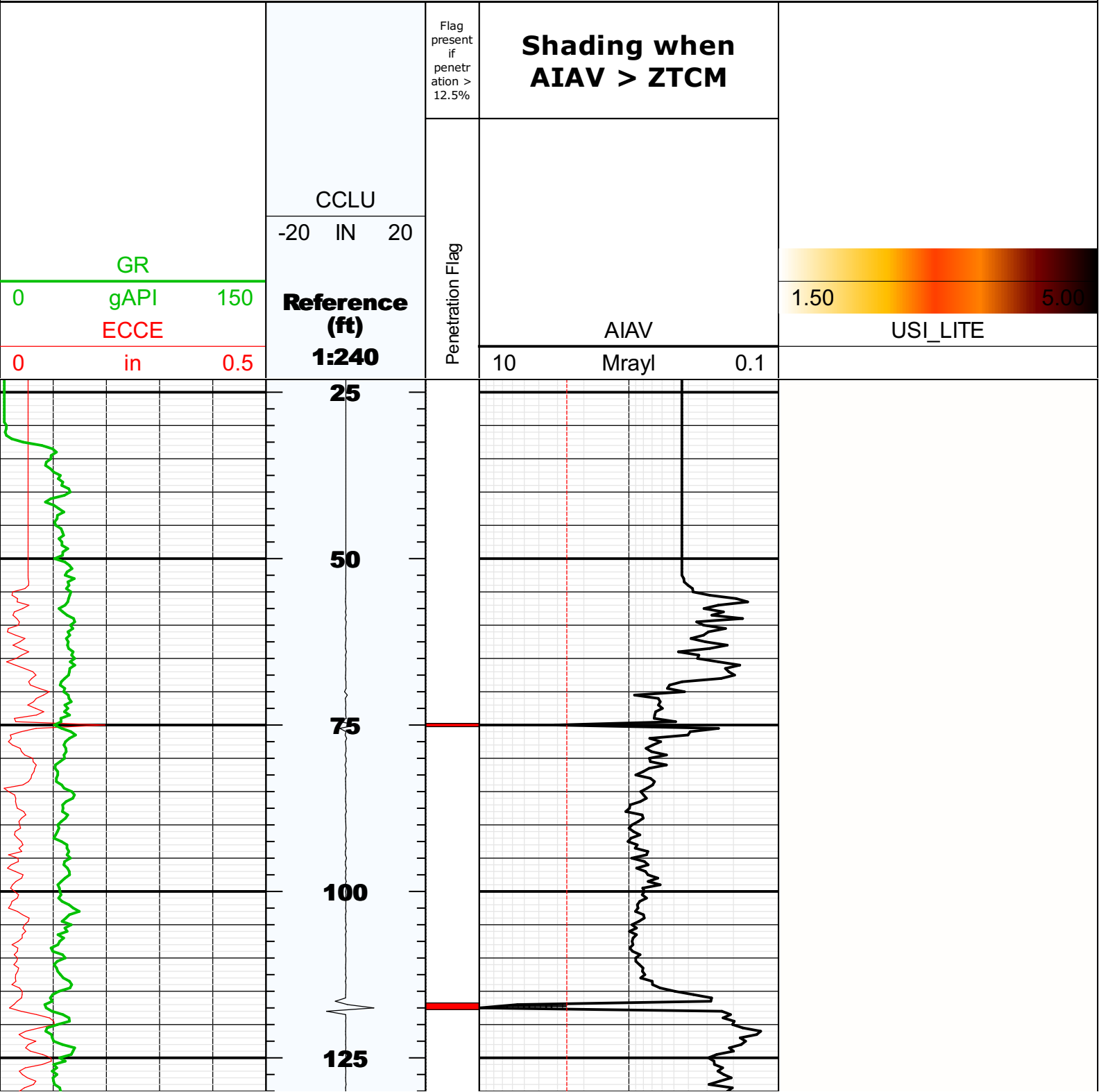
This is the first run in hole  
Toolstring run as per tool sketch  
12.5 ppg lead cement  
13.8 ppg tail cement  
0 PSI repeat pass  
2500 PSI main pass

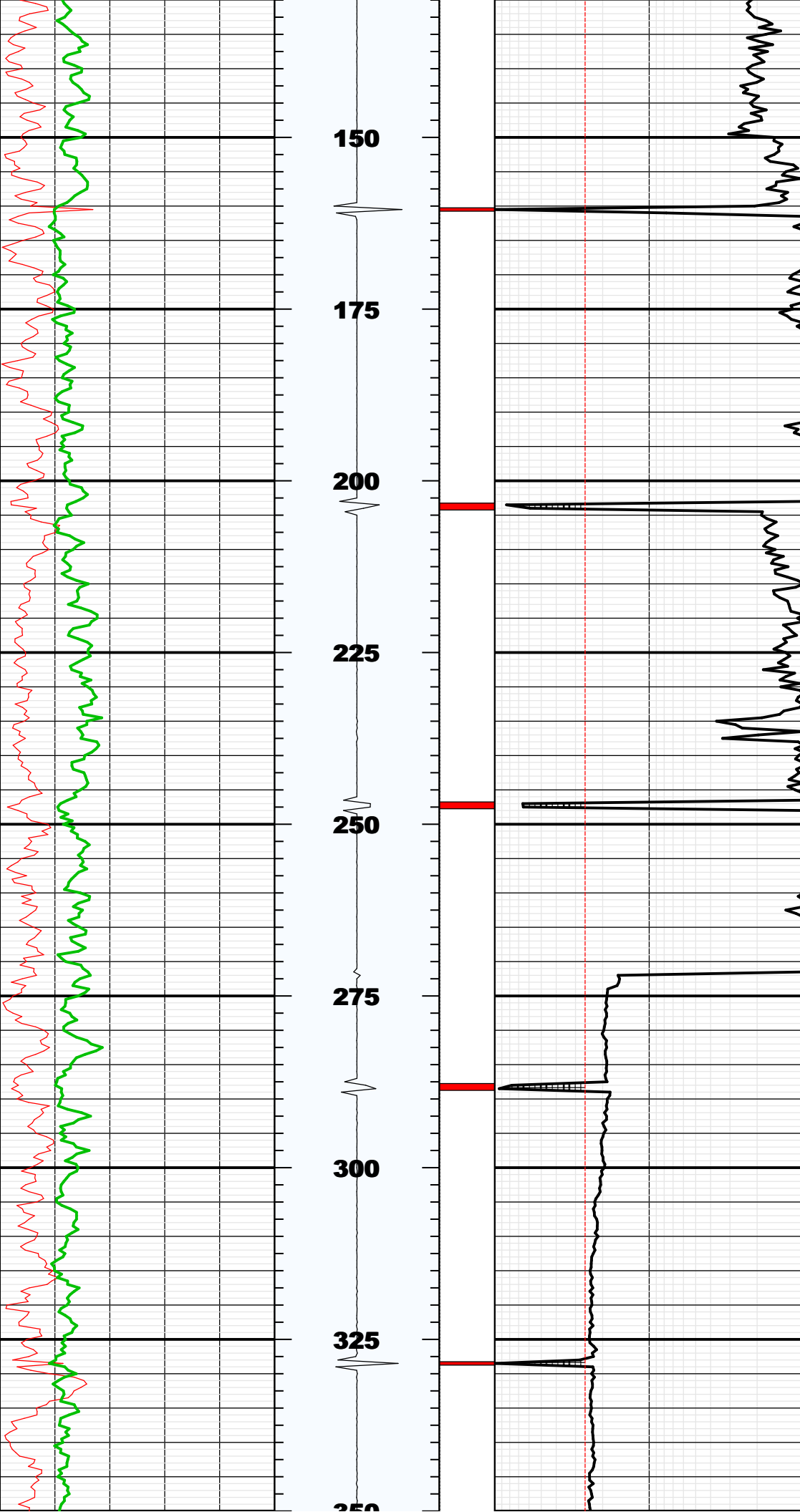
Top of cement 550'

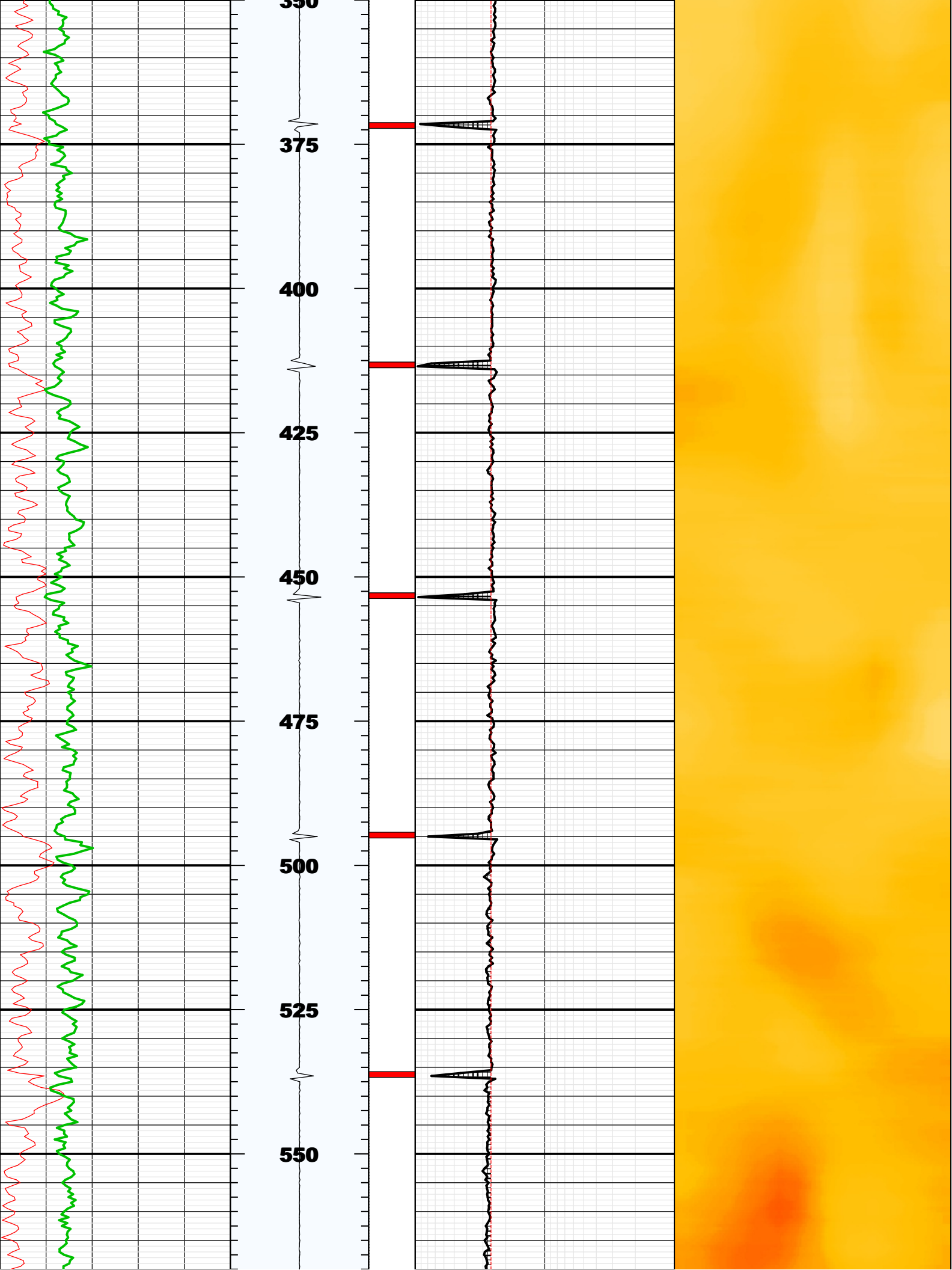
Crew Troy Ocanas Tyler Riter

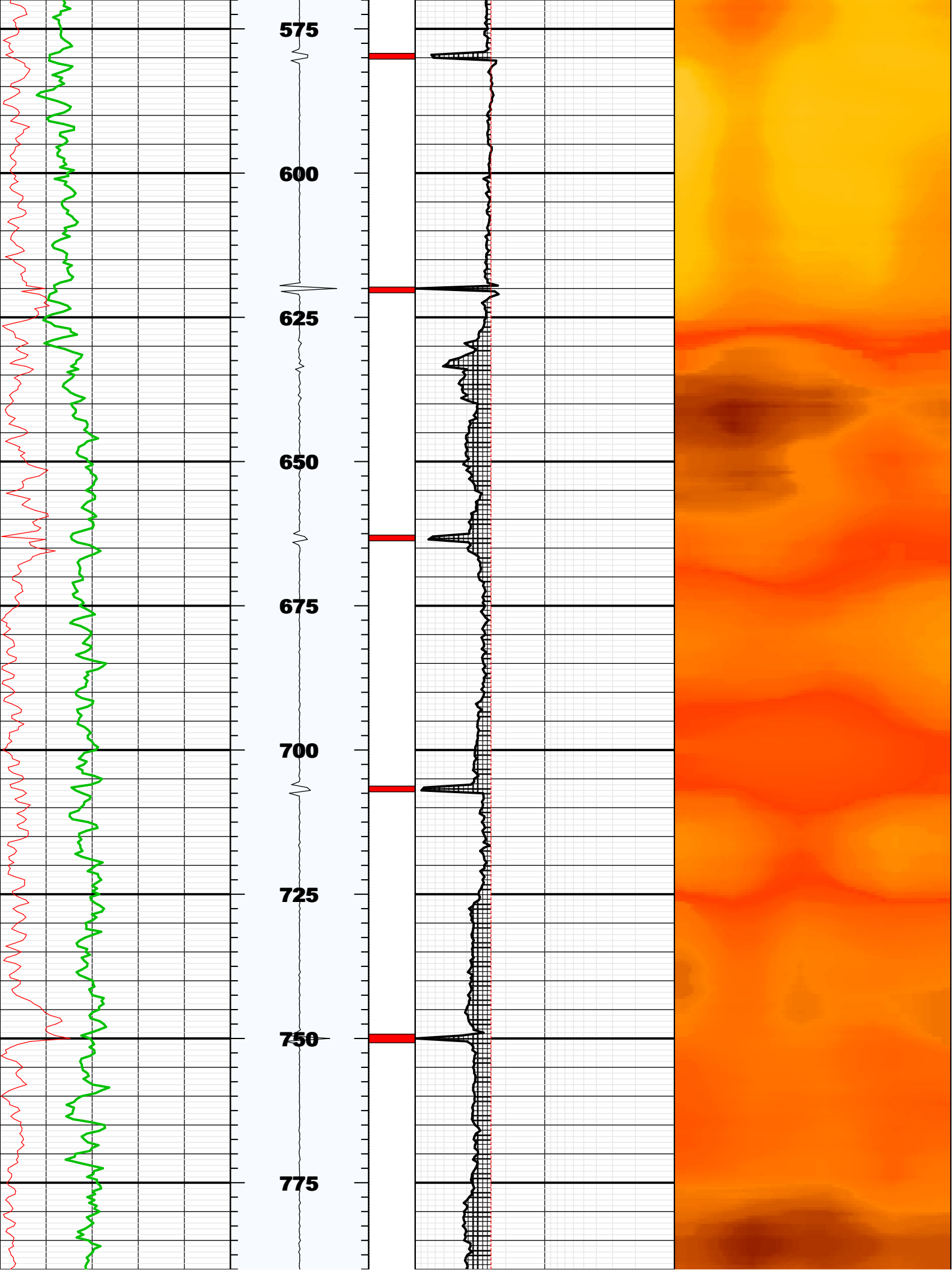
Main Pass

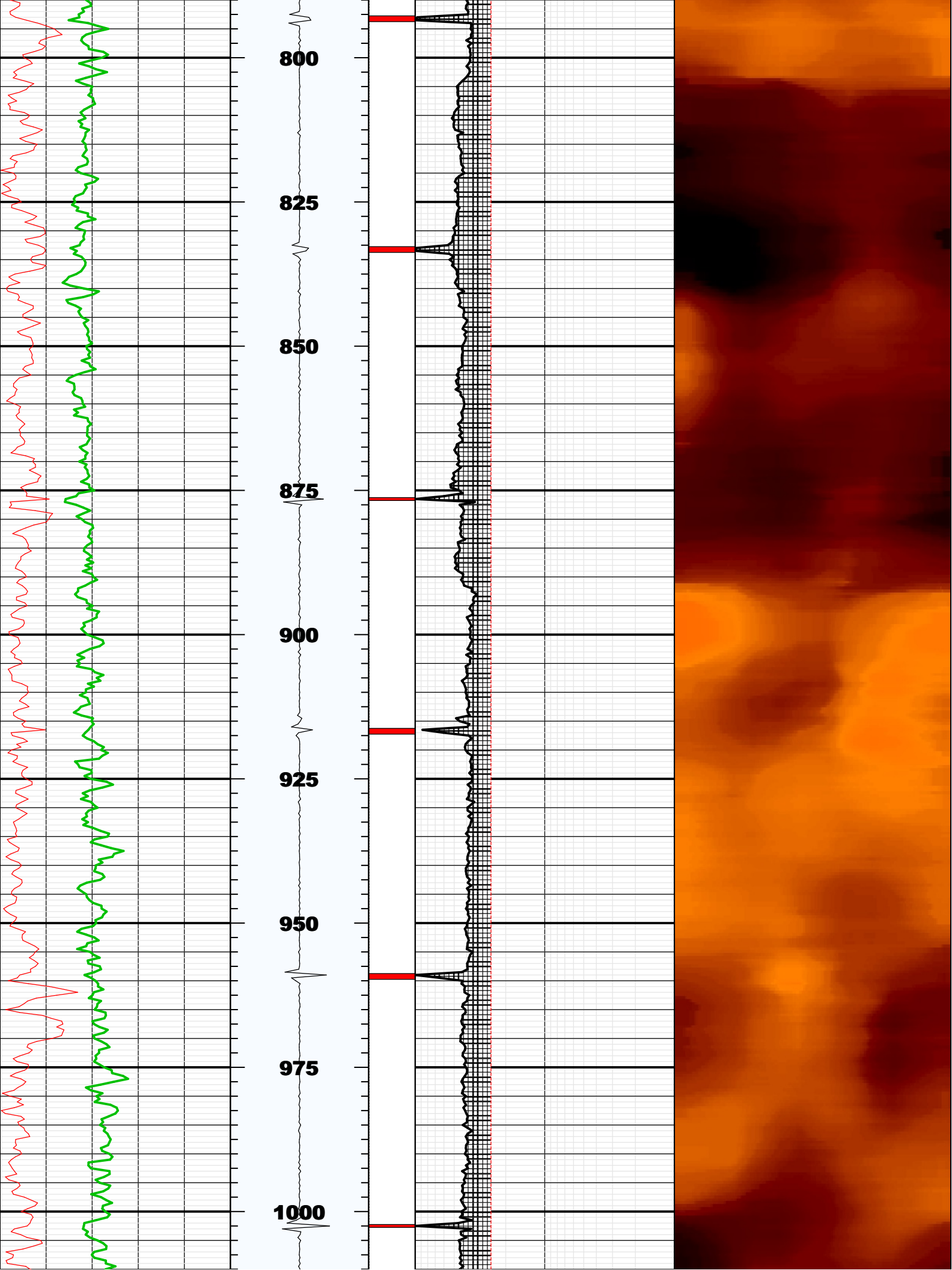
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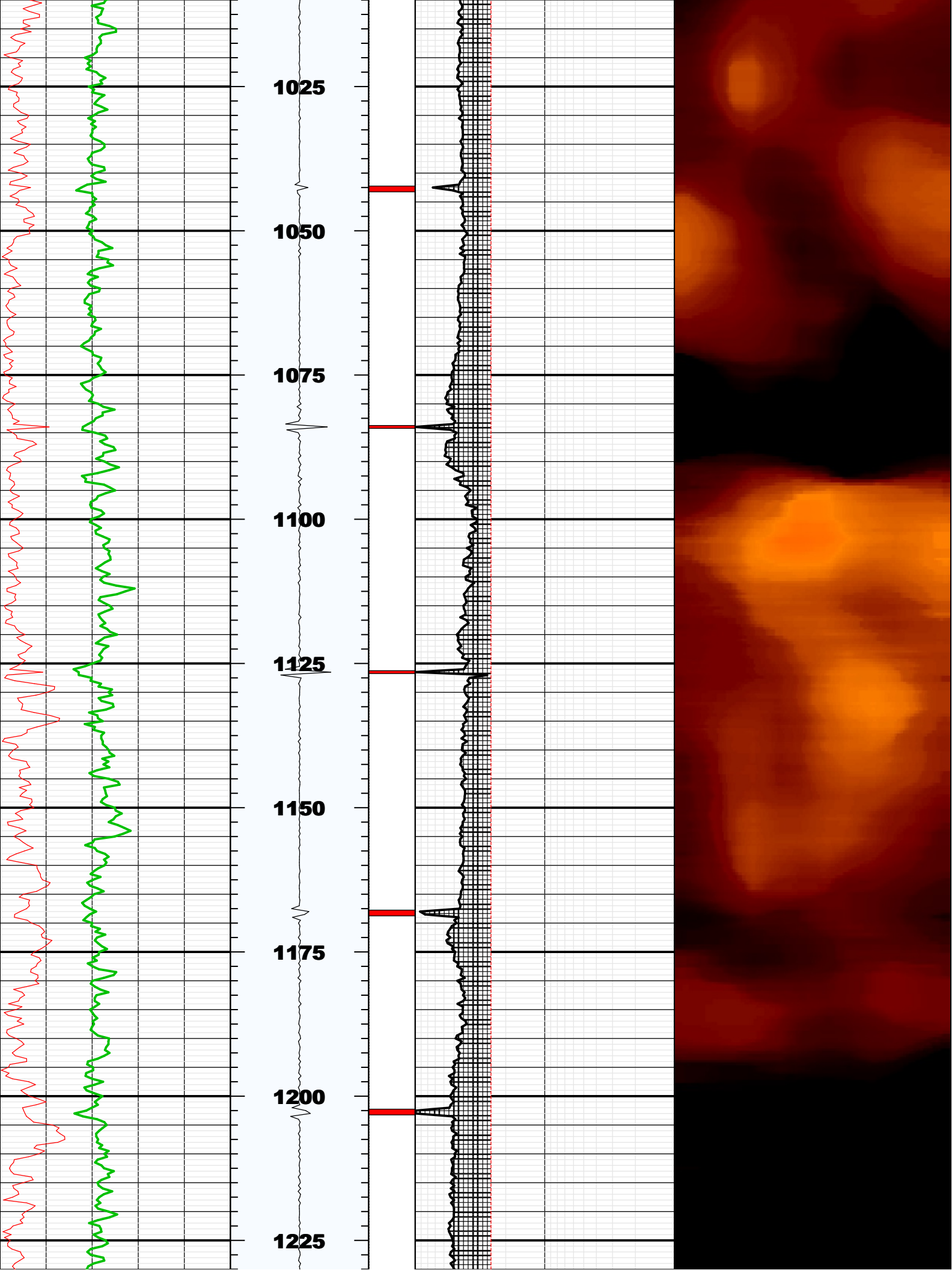




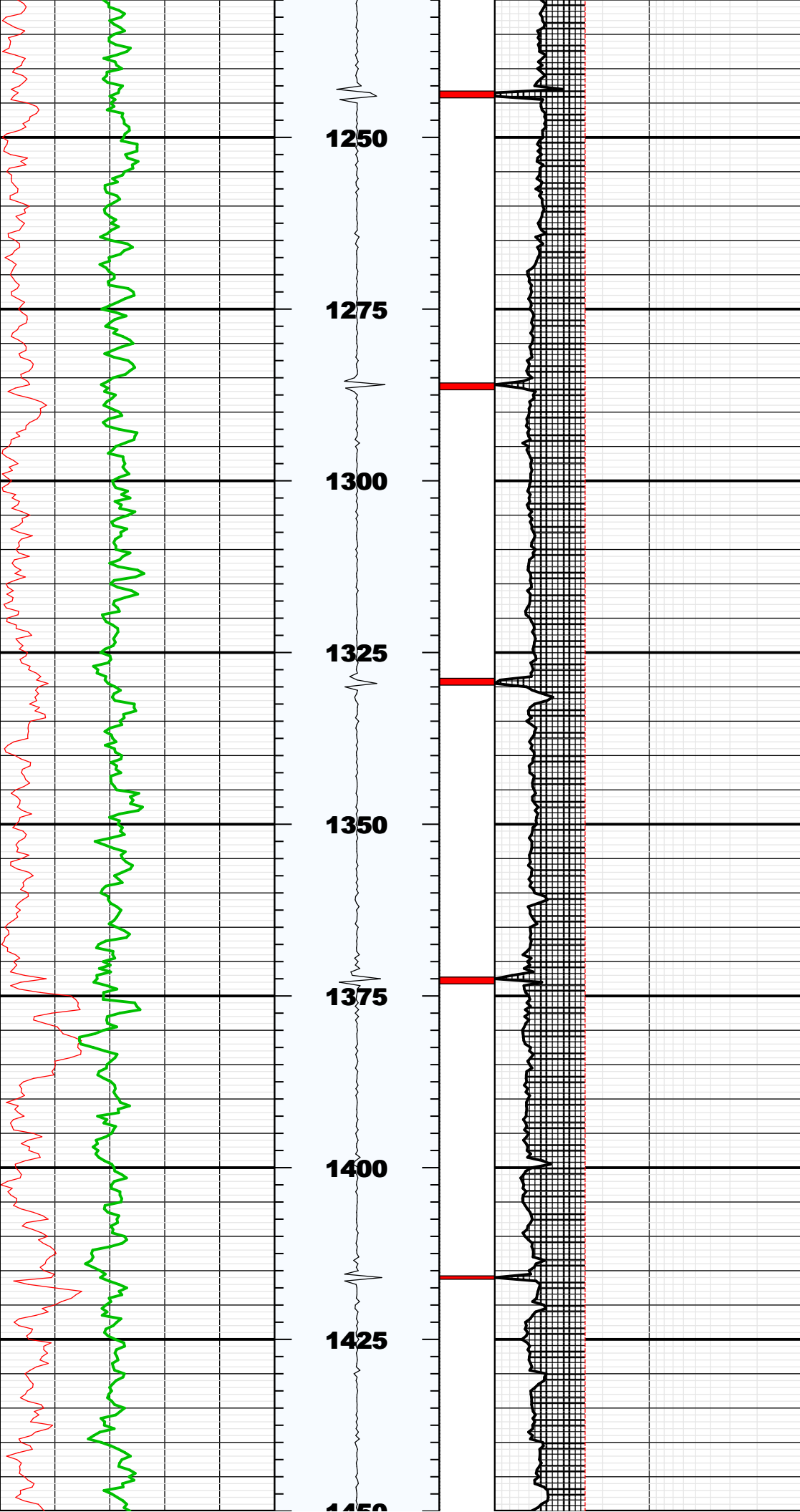


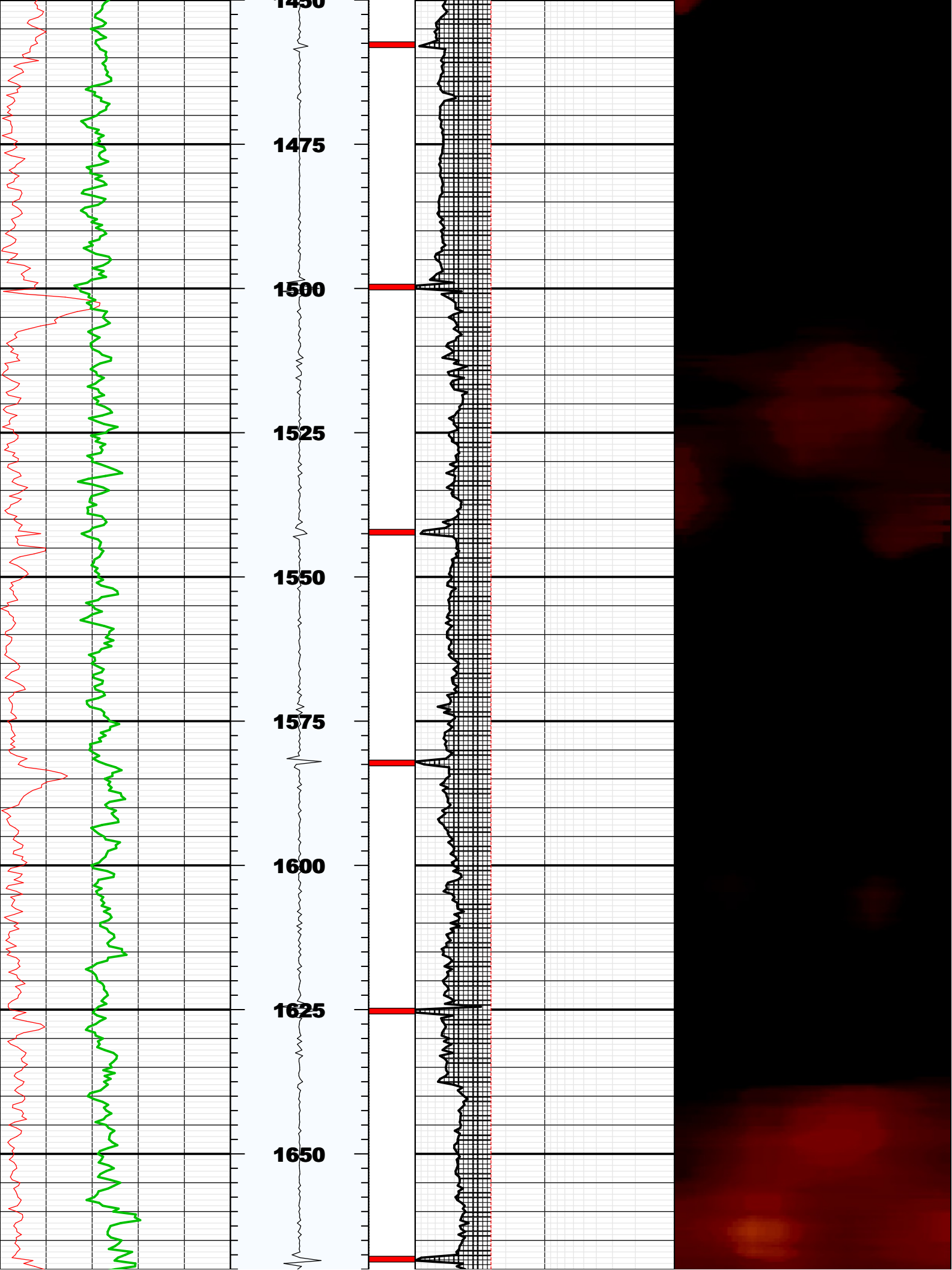


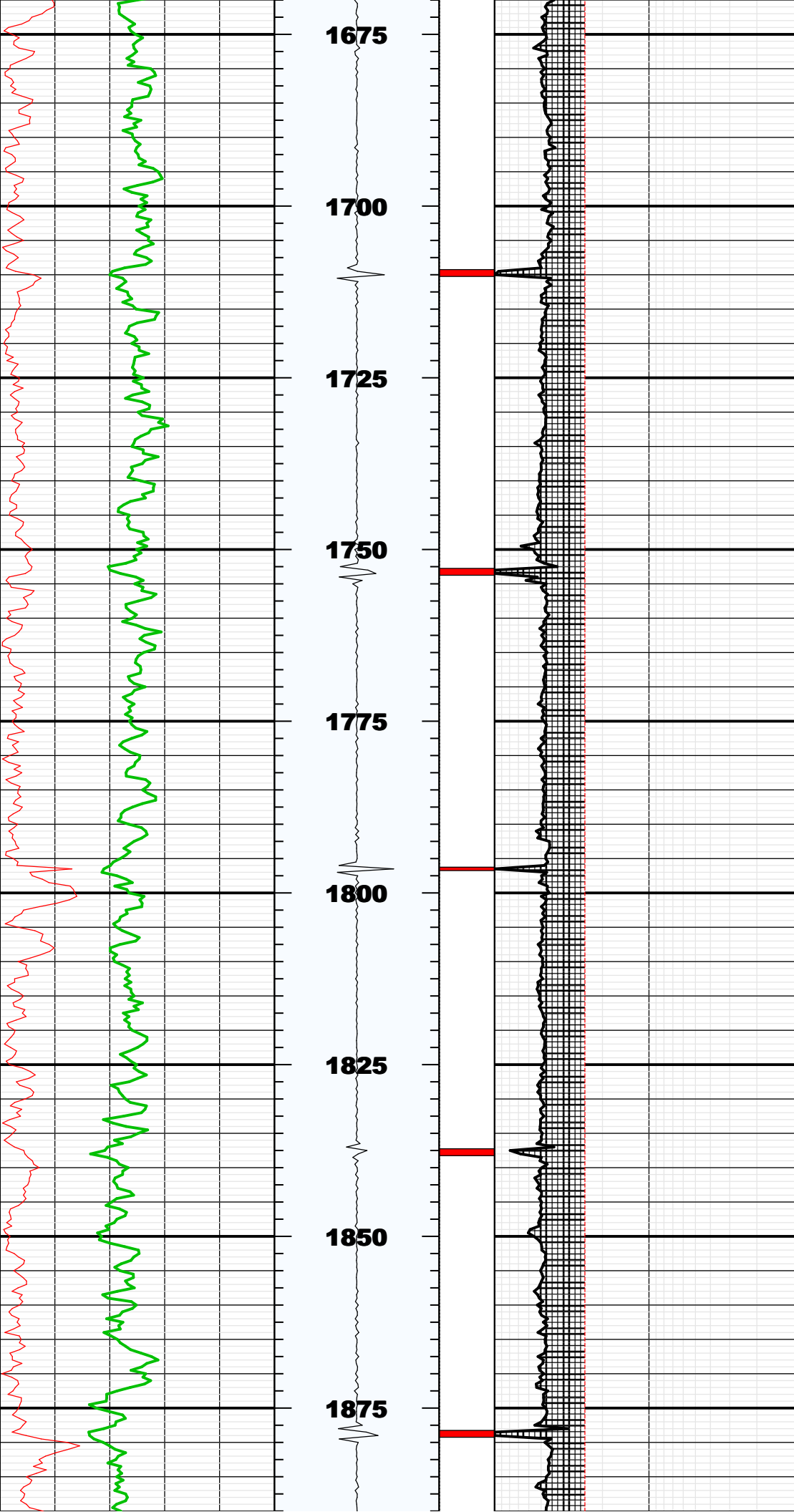


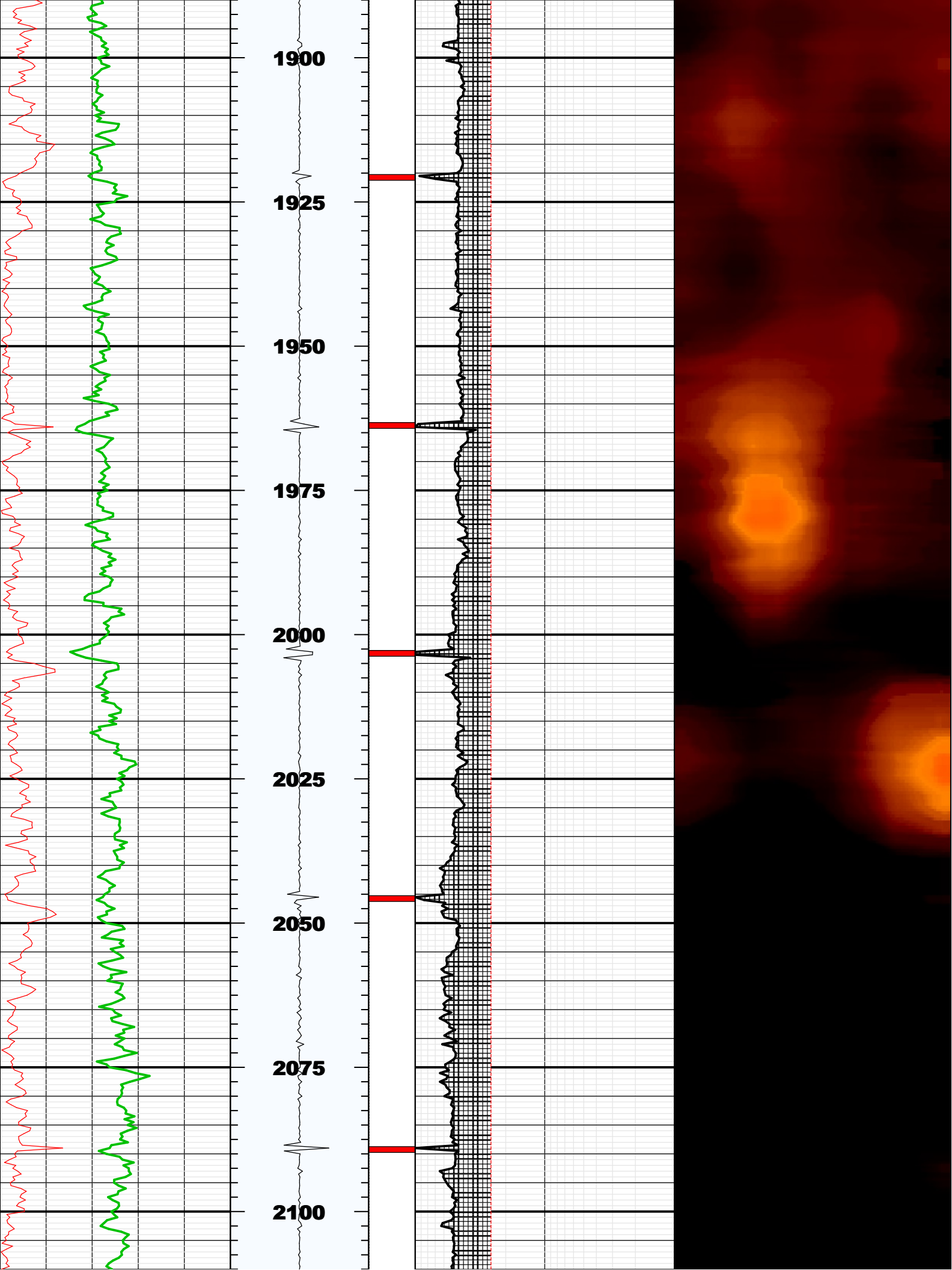


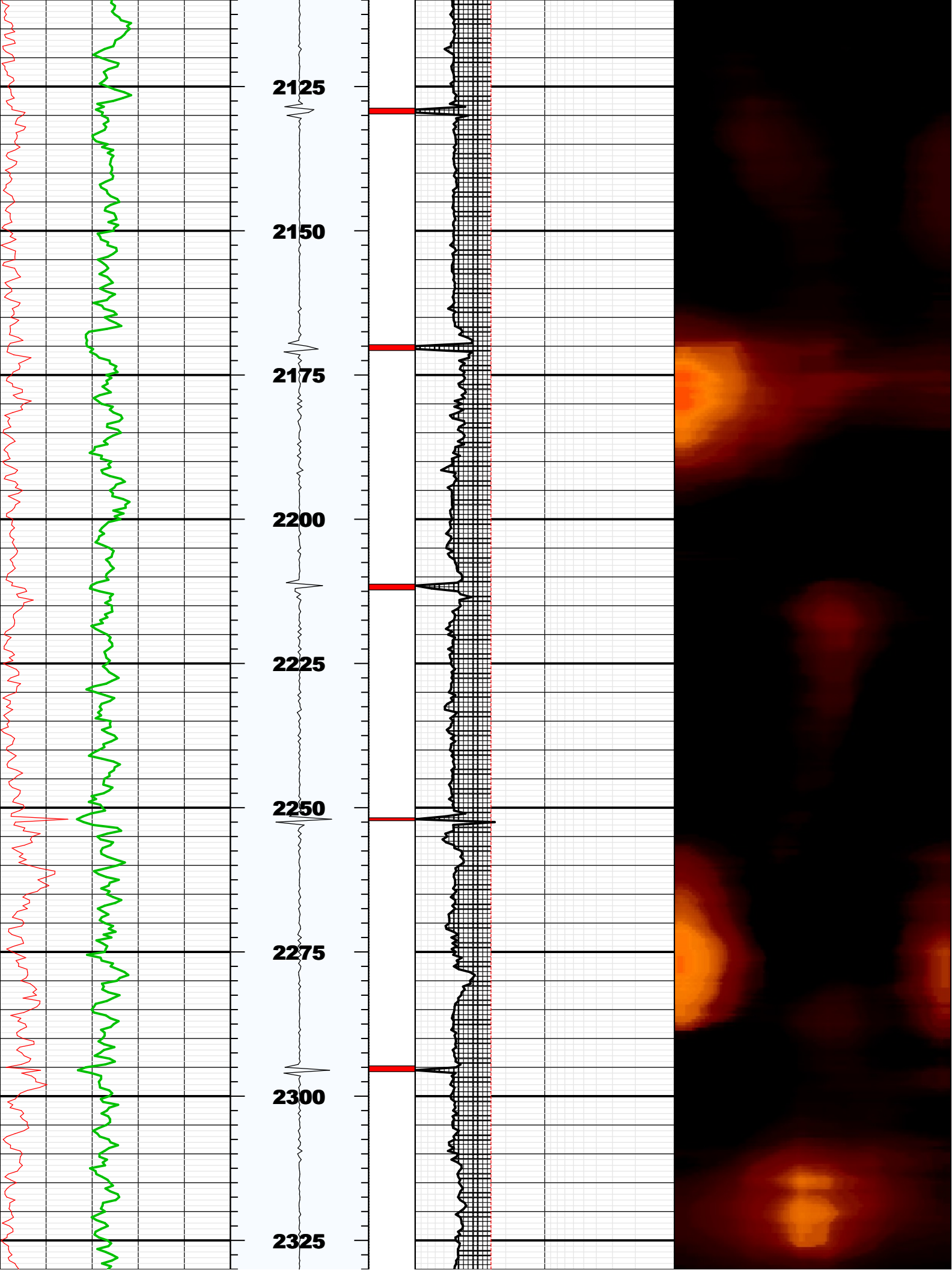




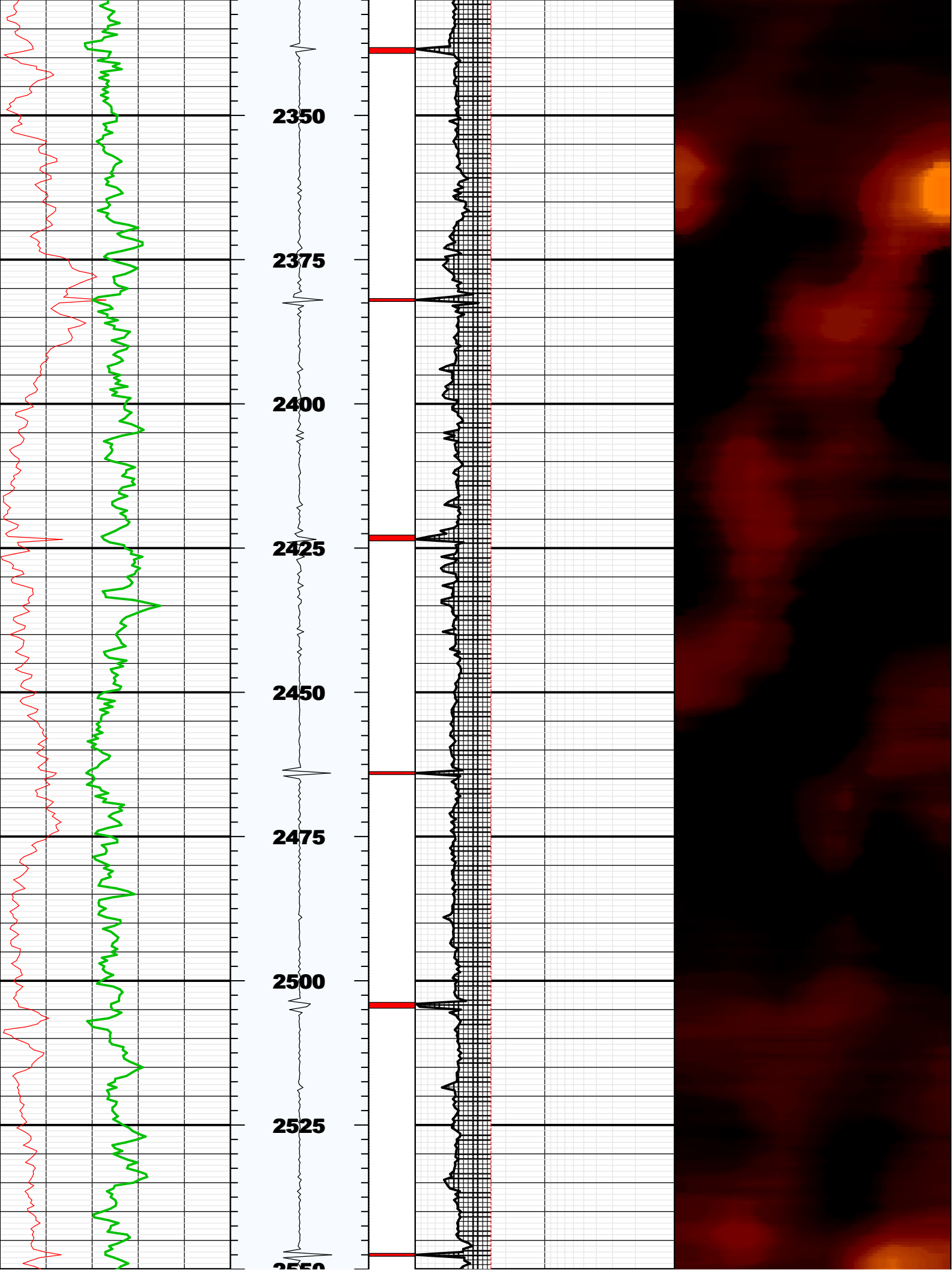


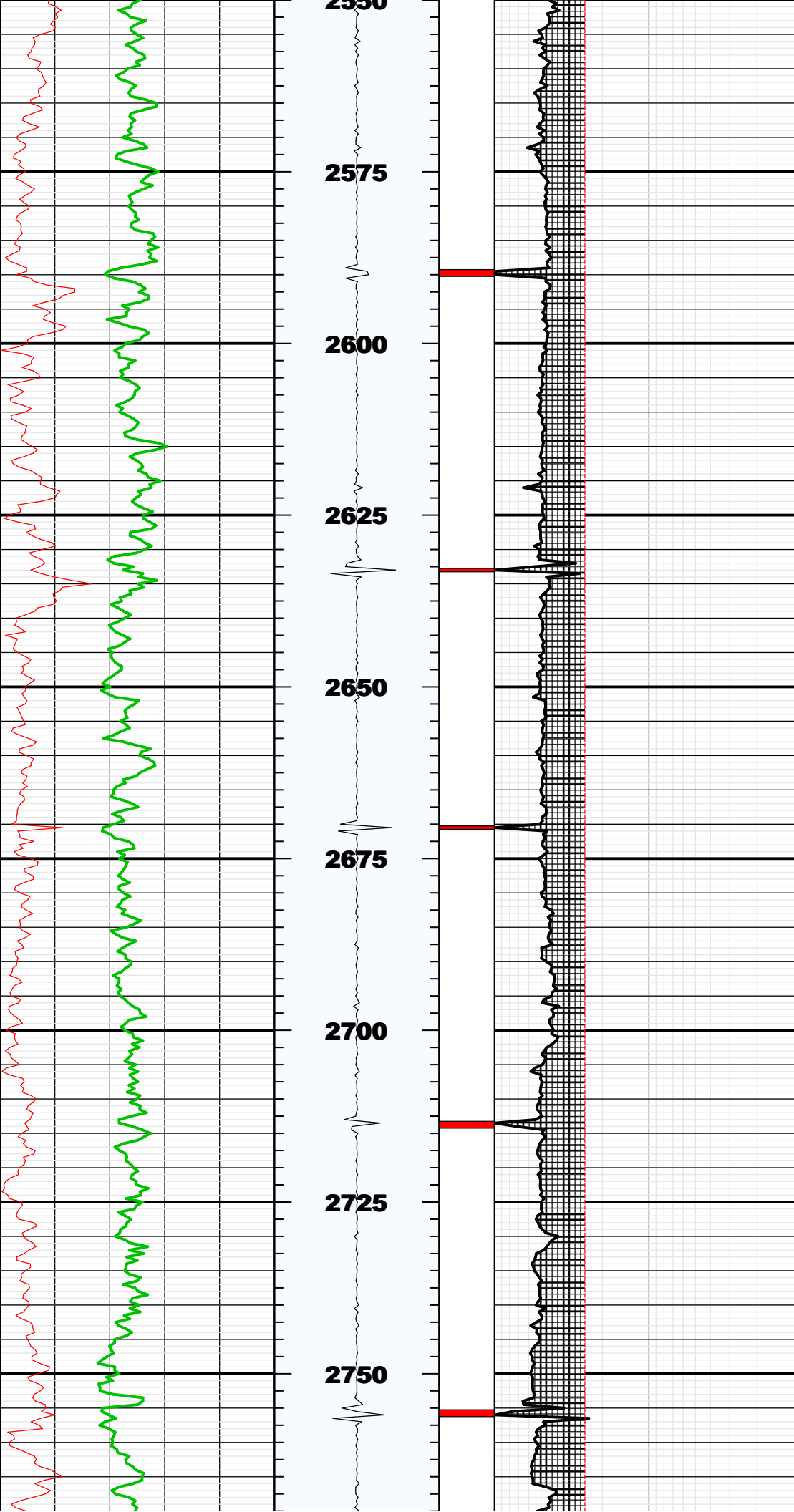


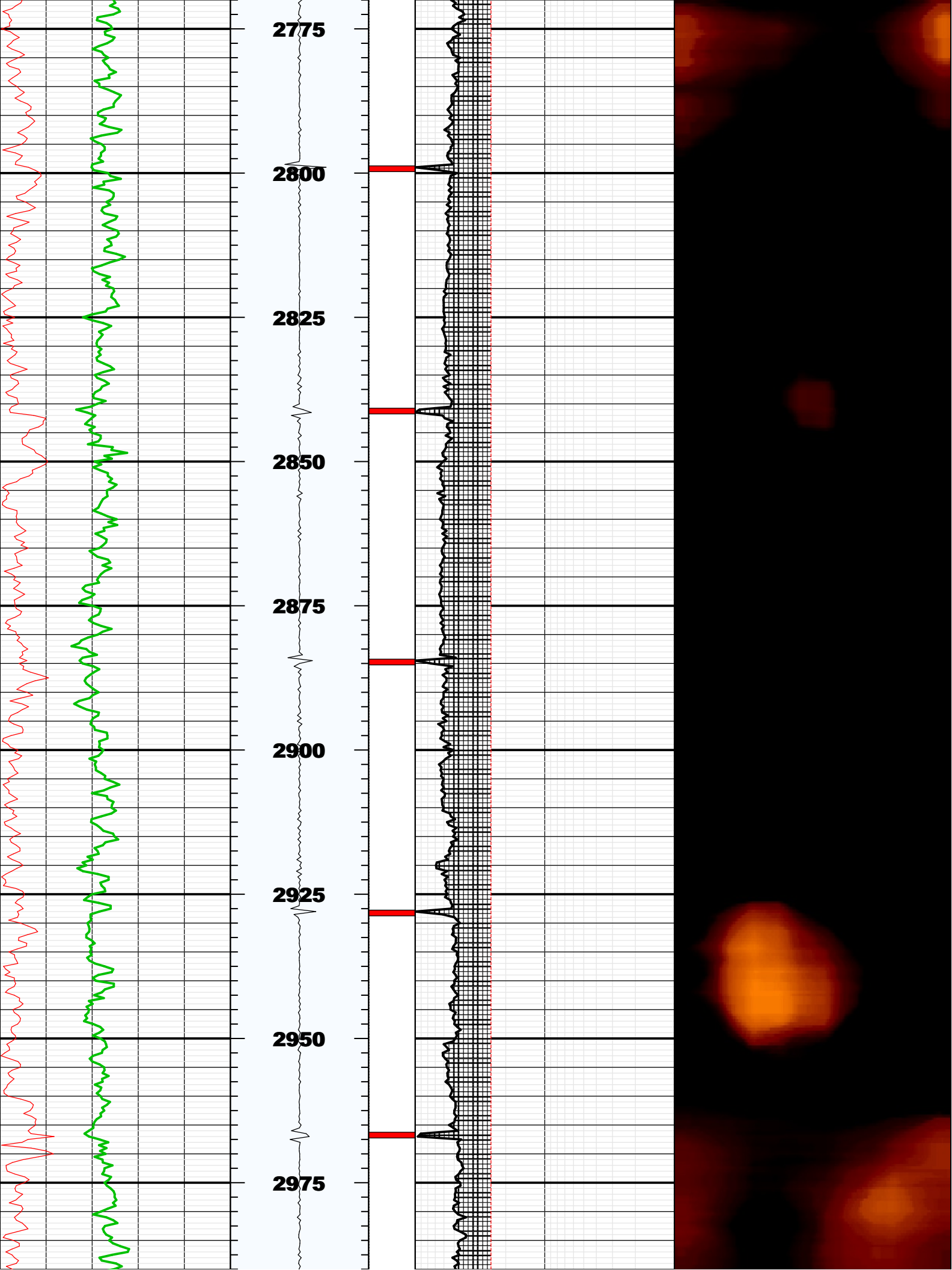




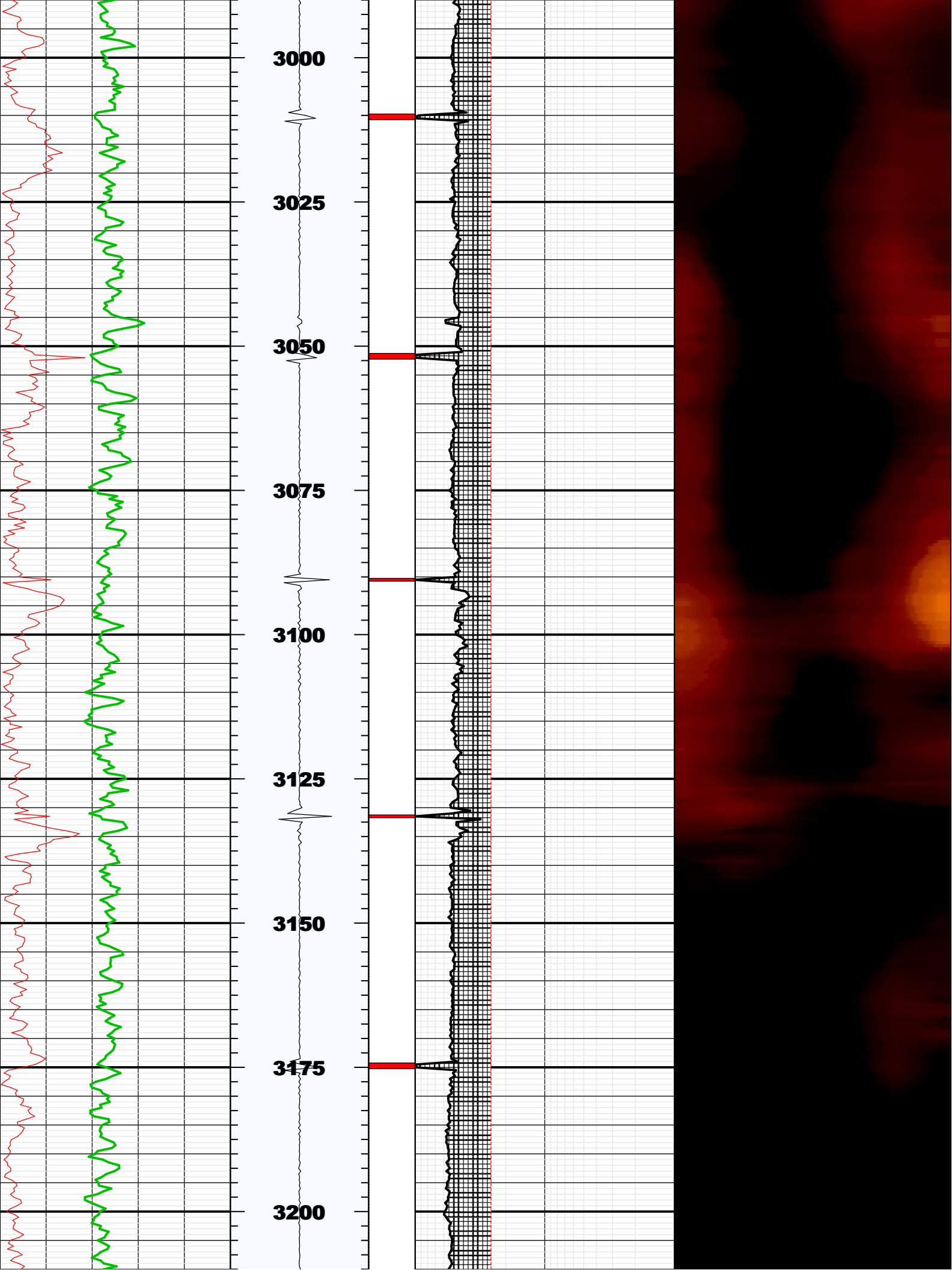


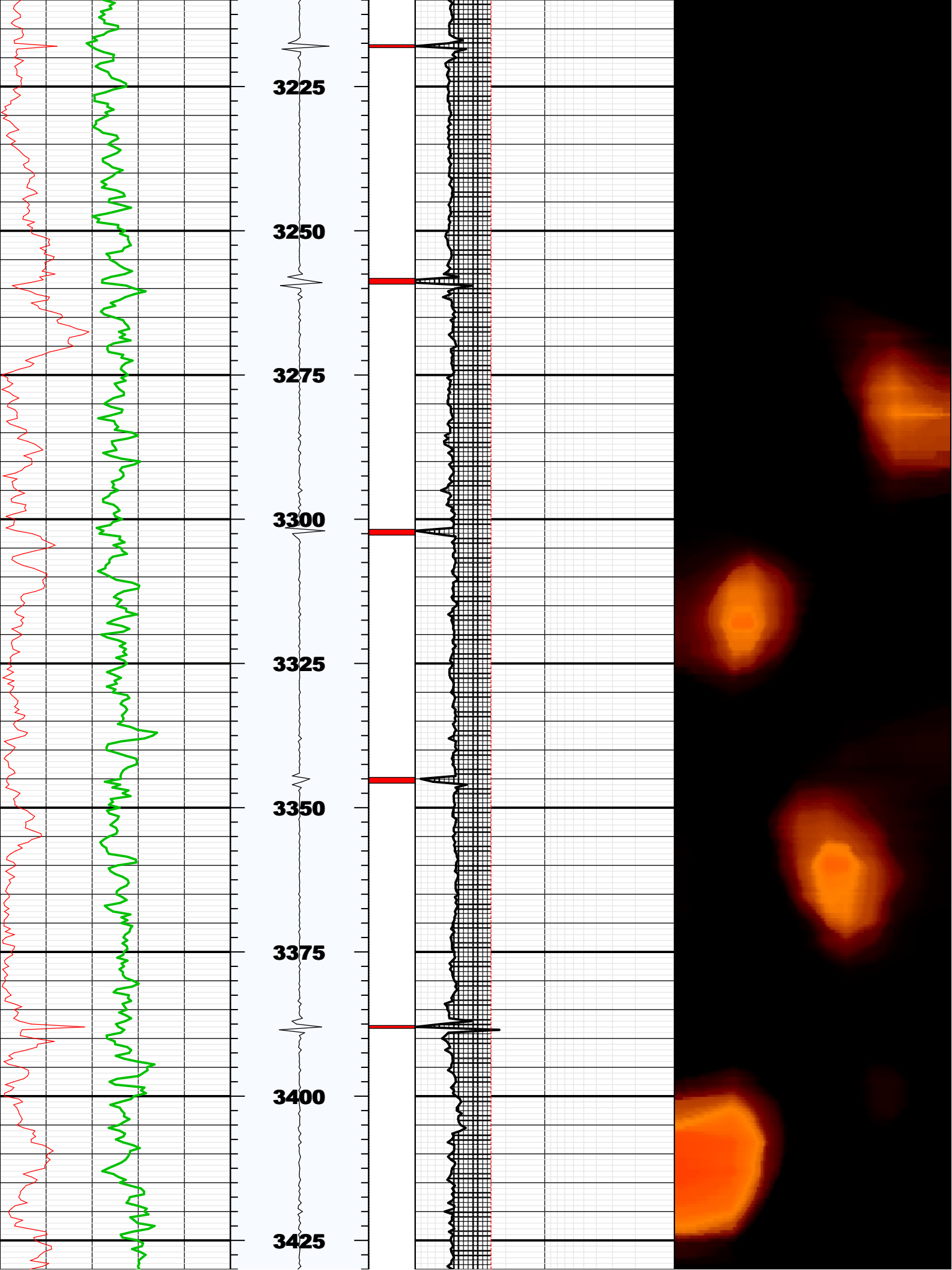


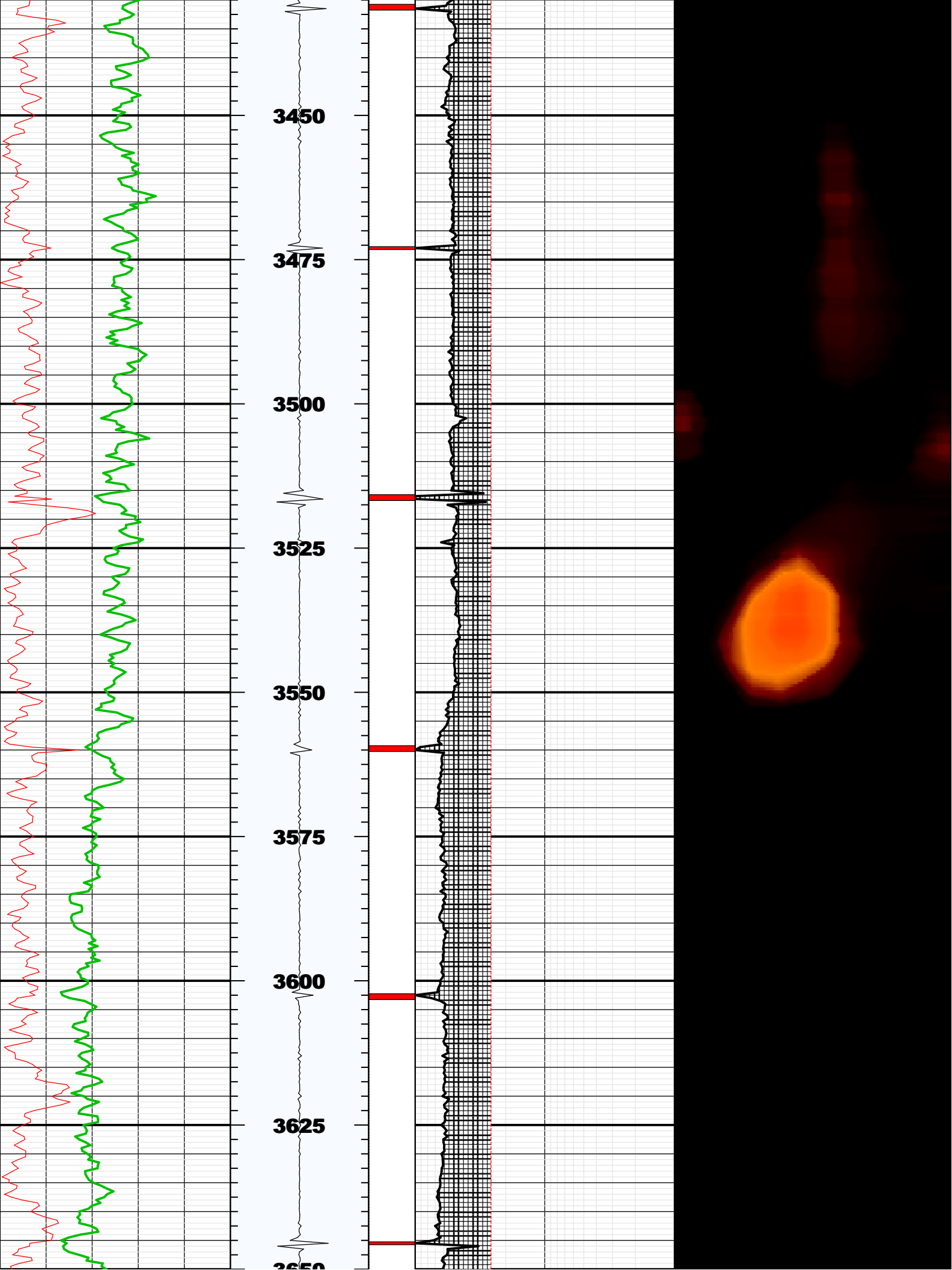


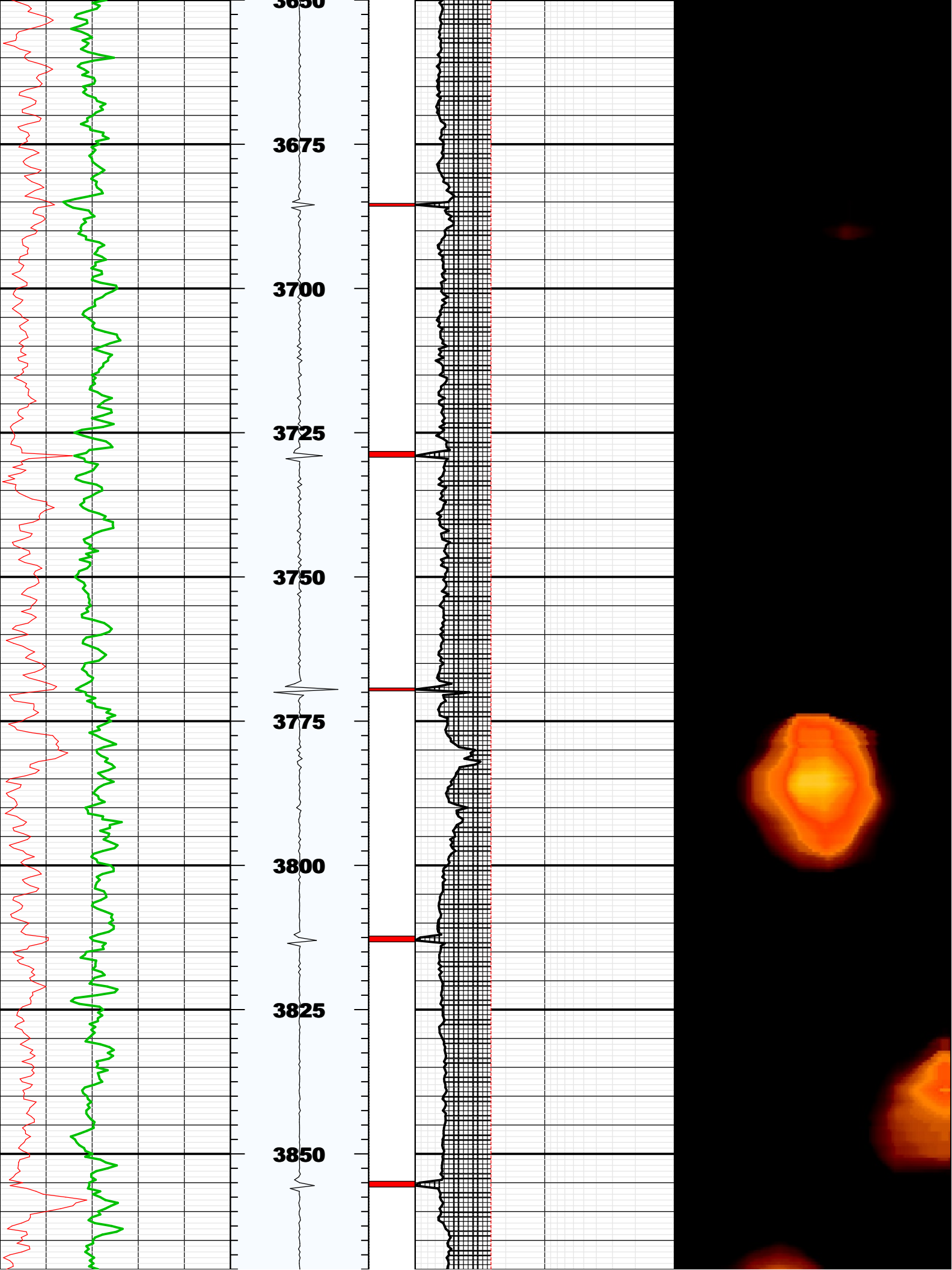


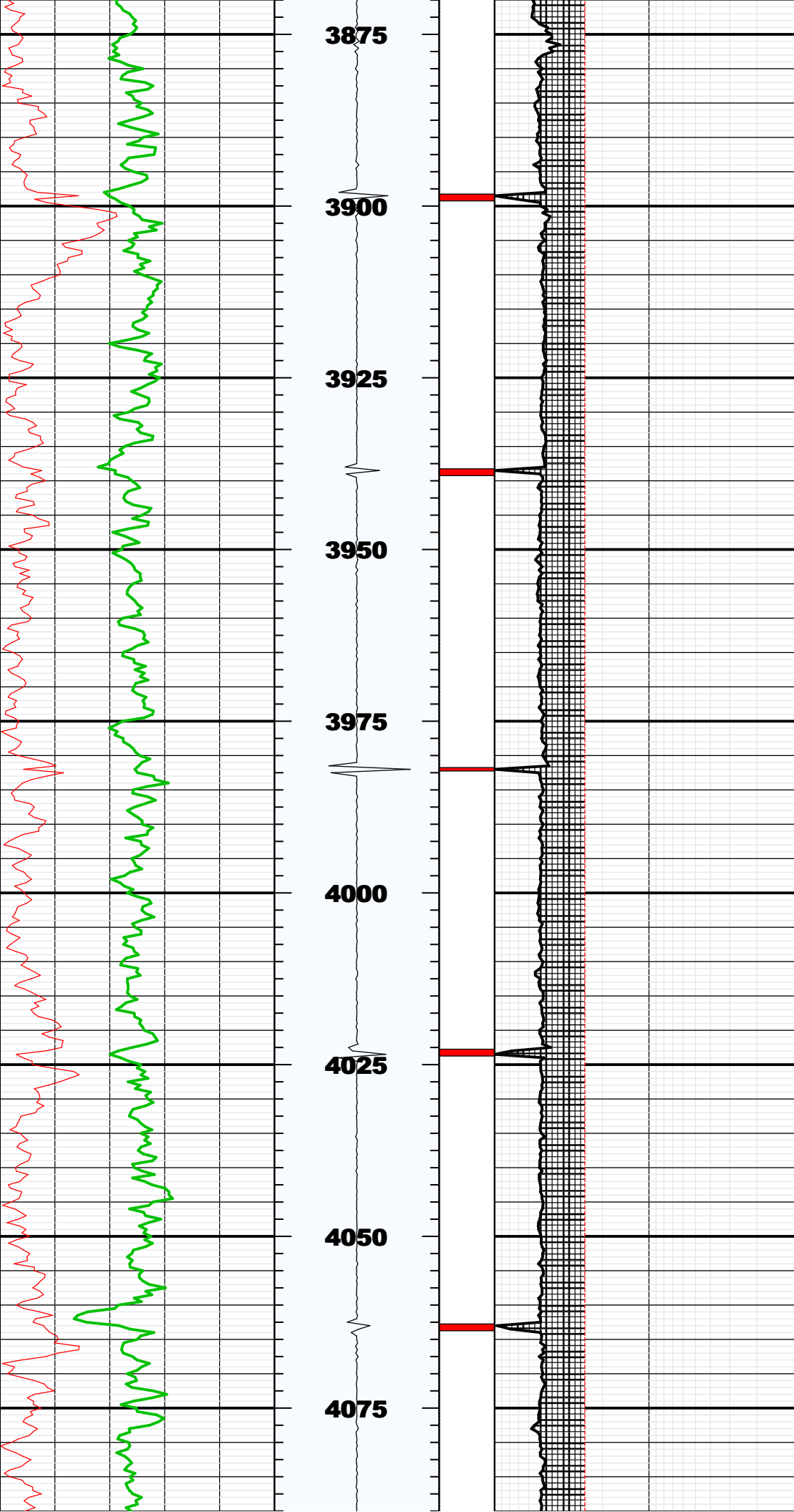




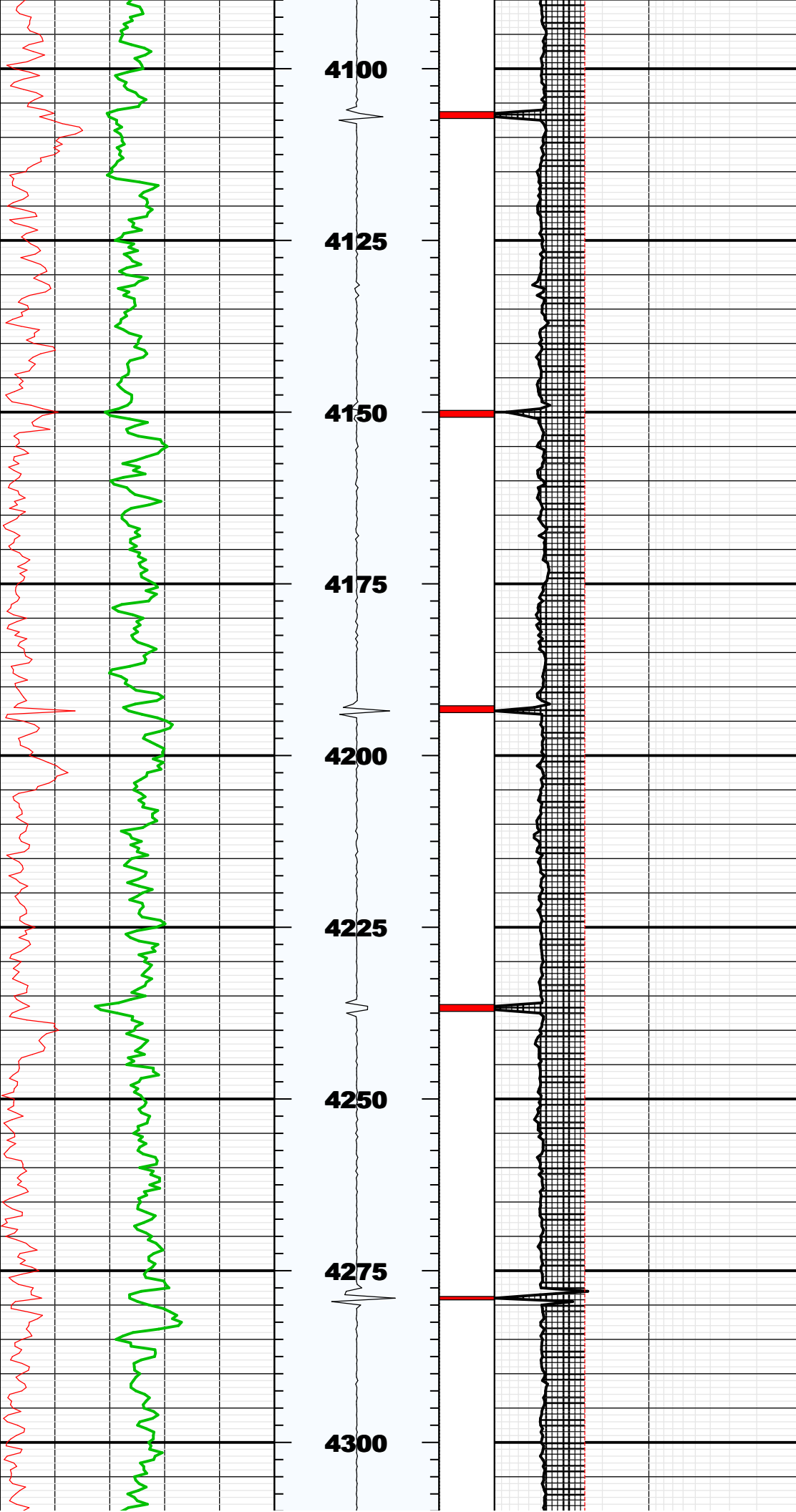


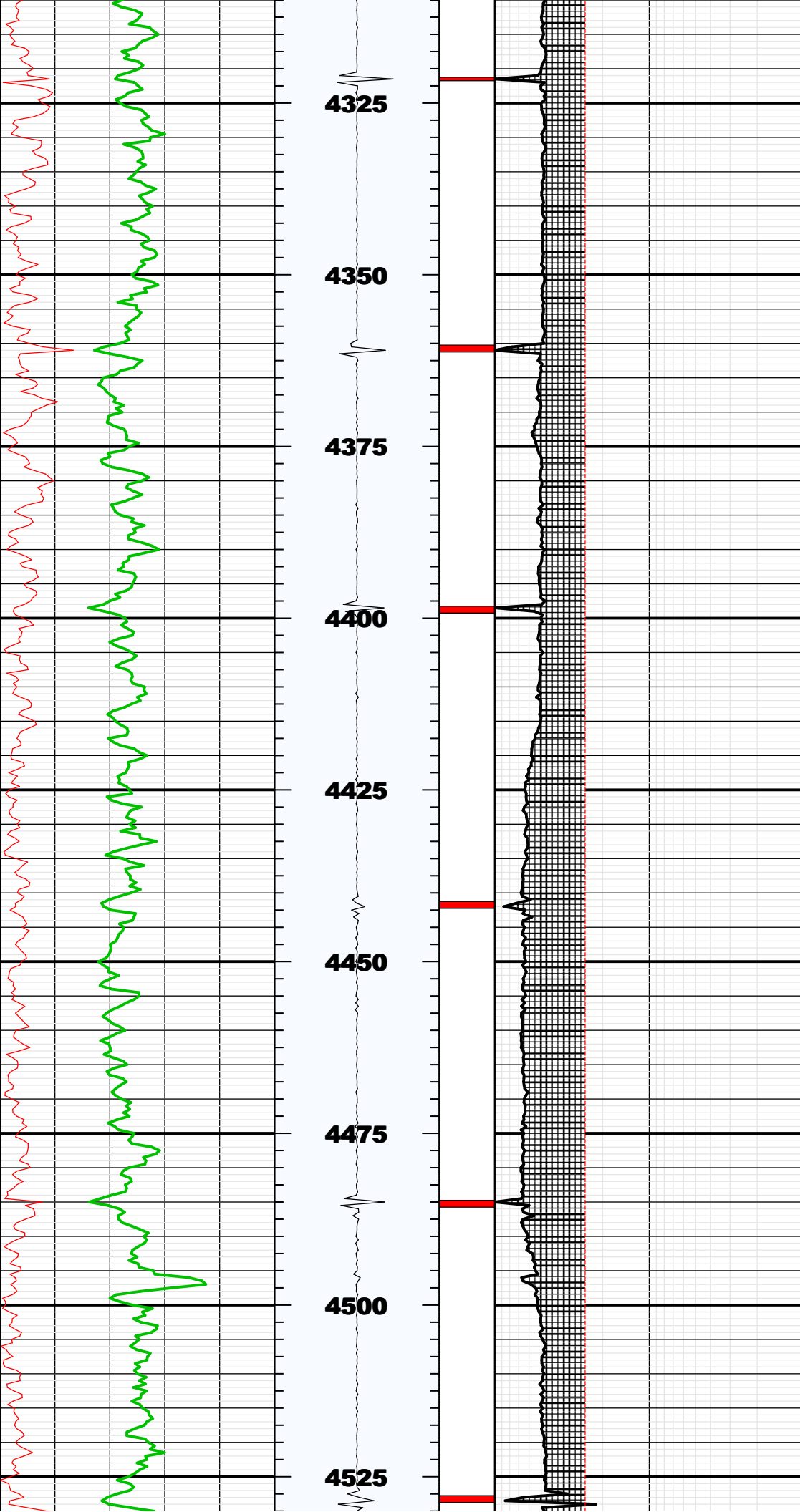


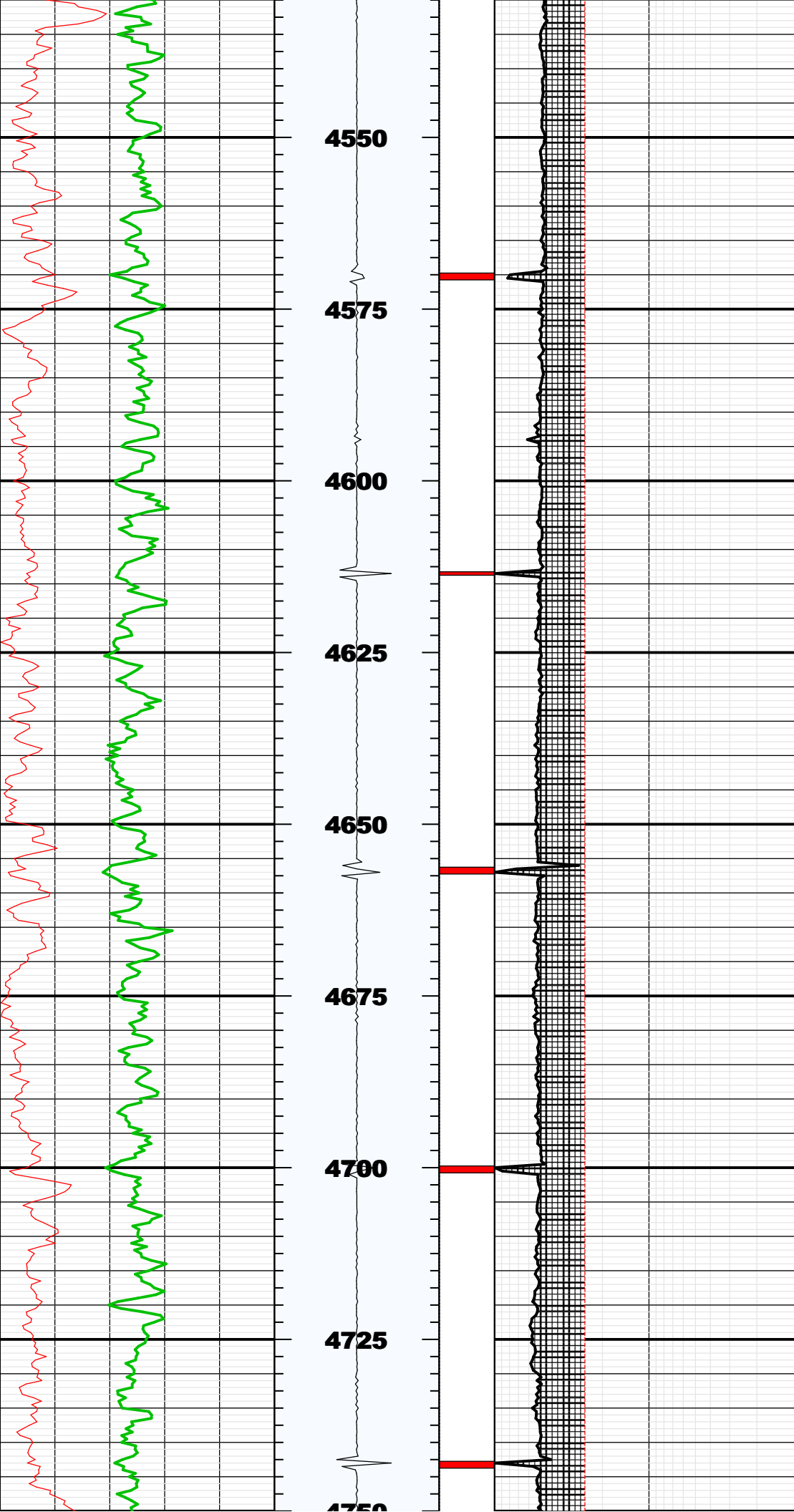




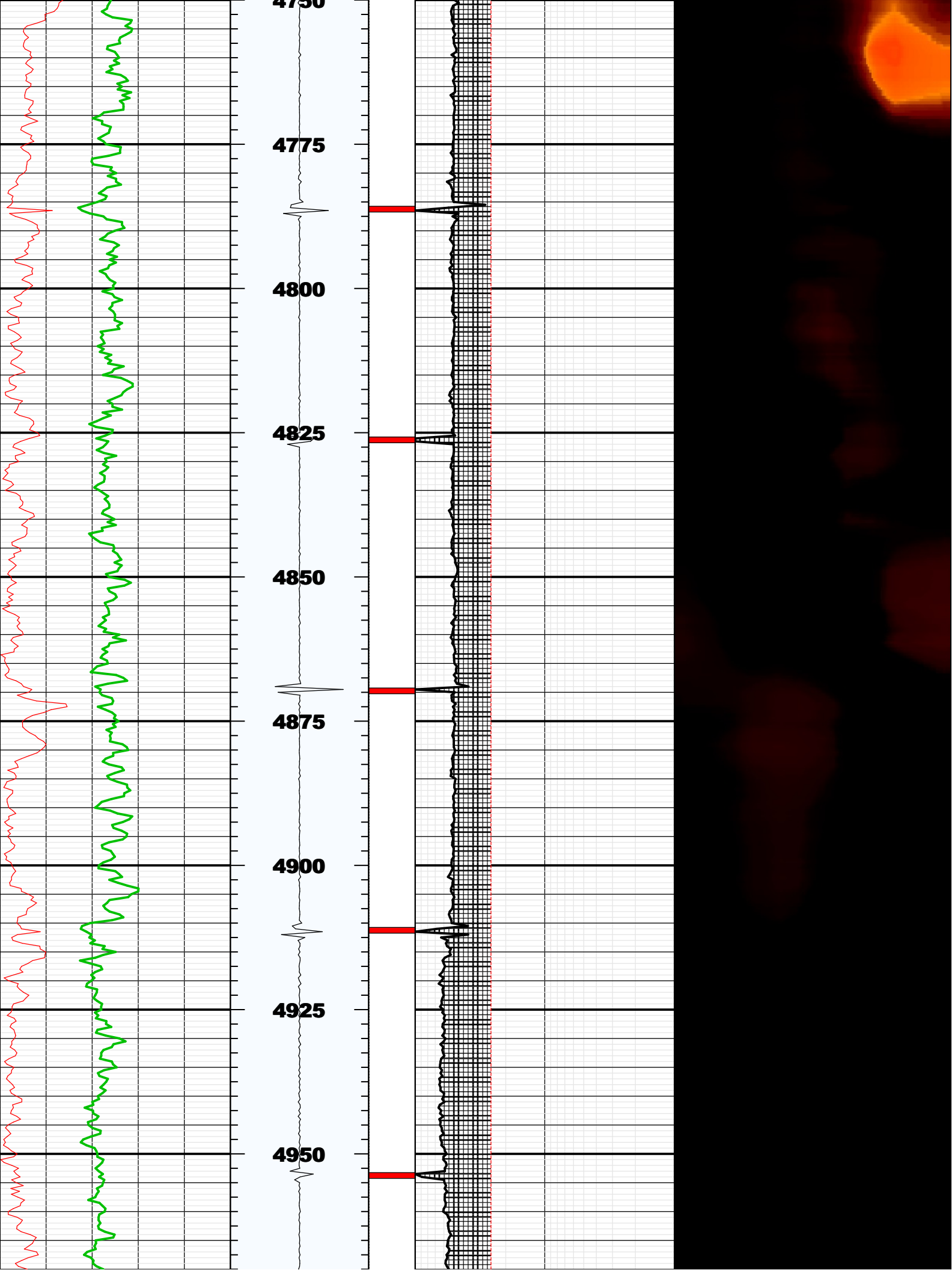


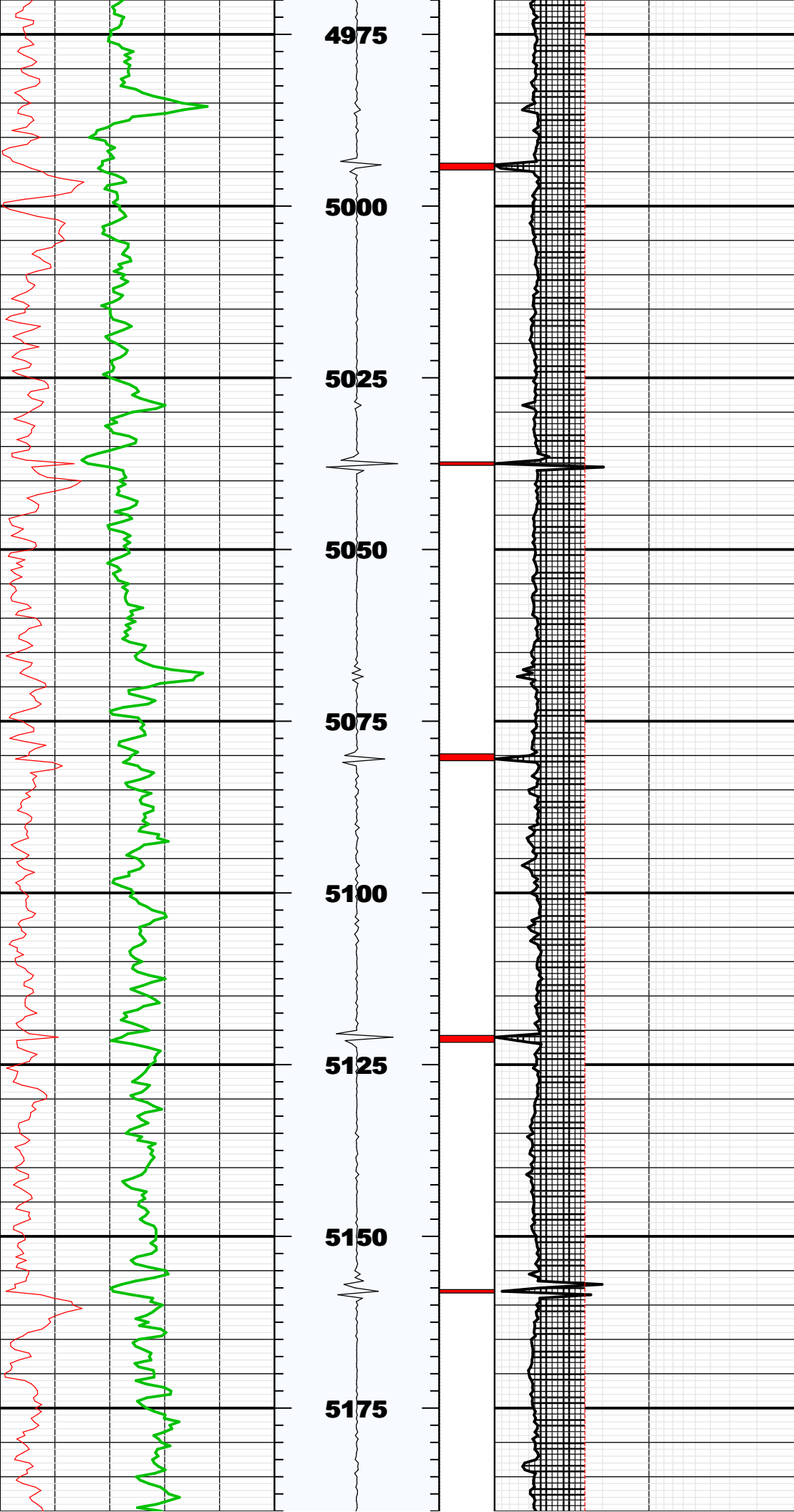


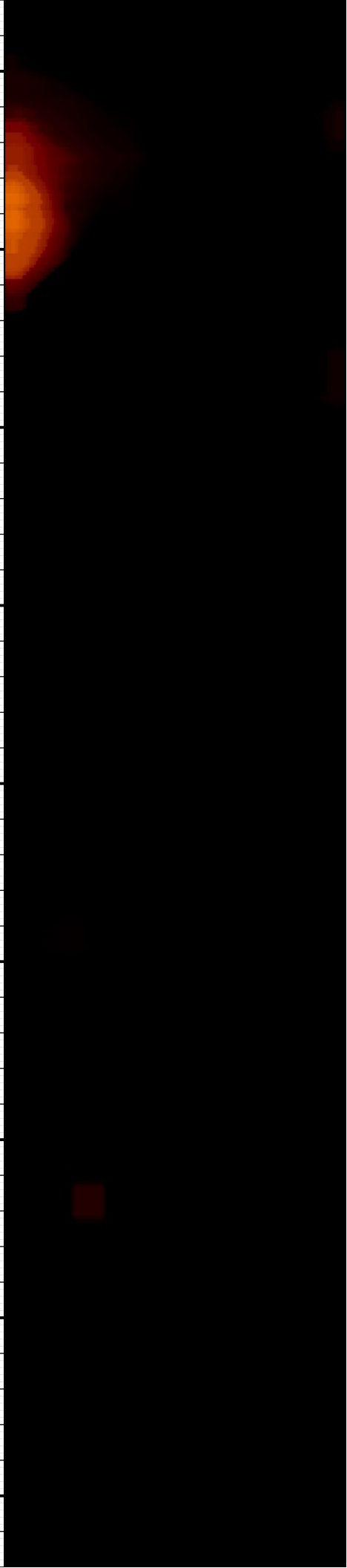
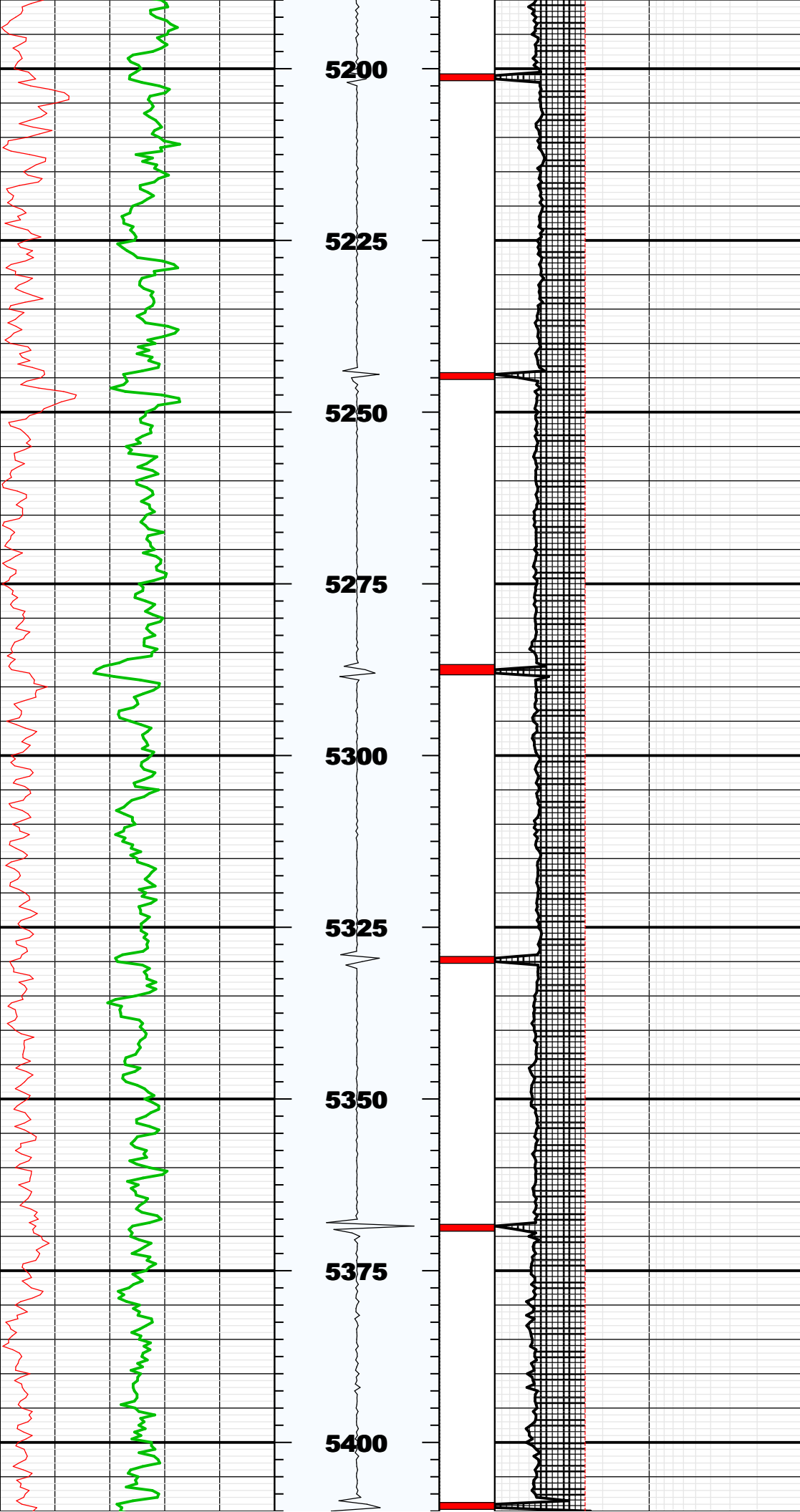


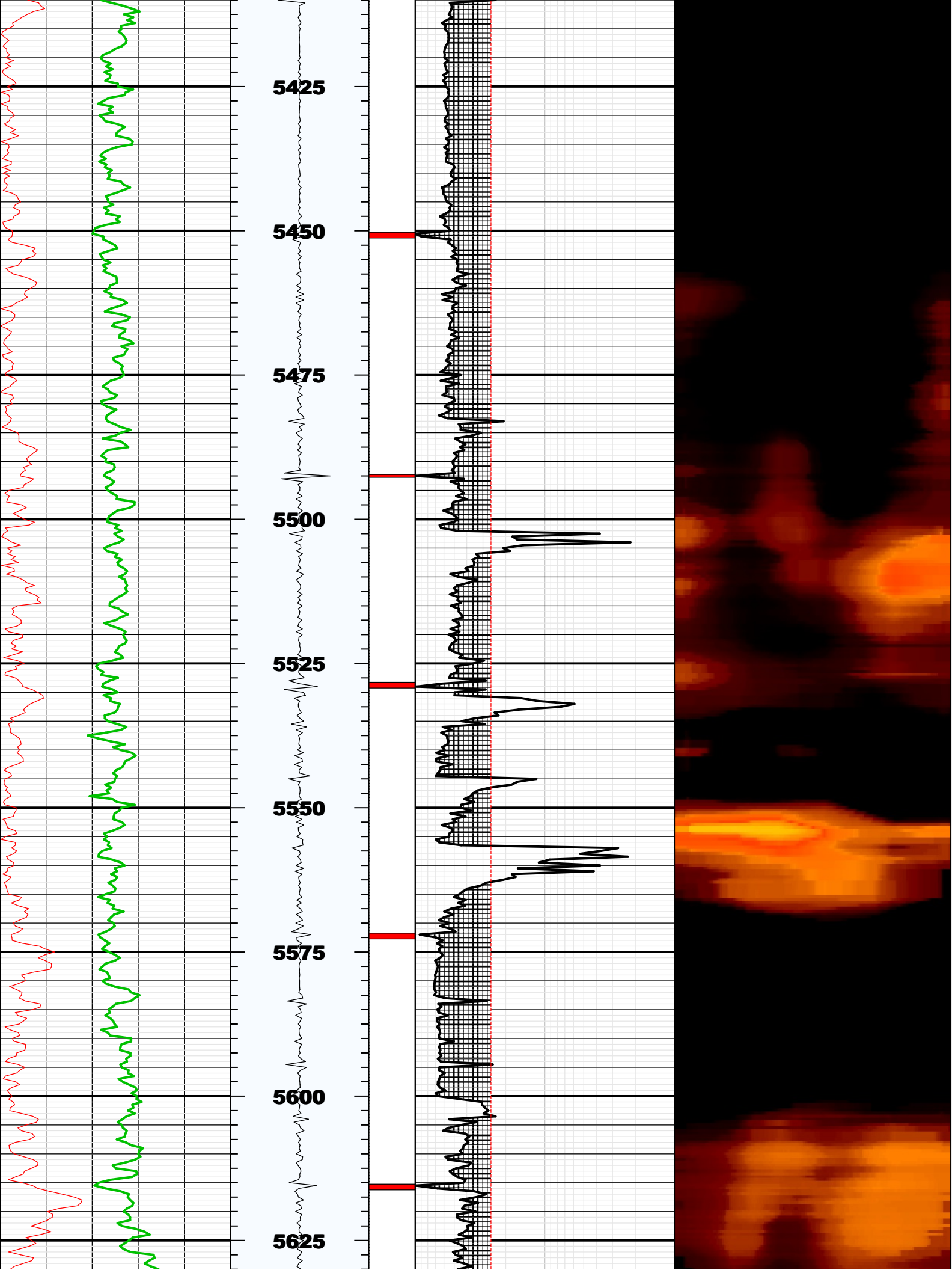


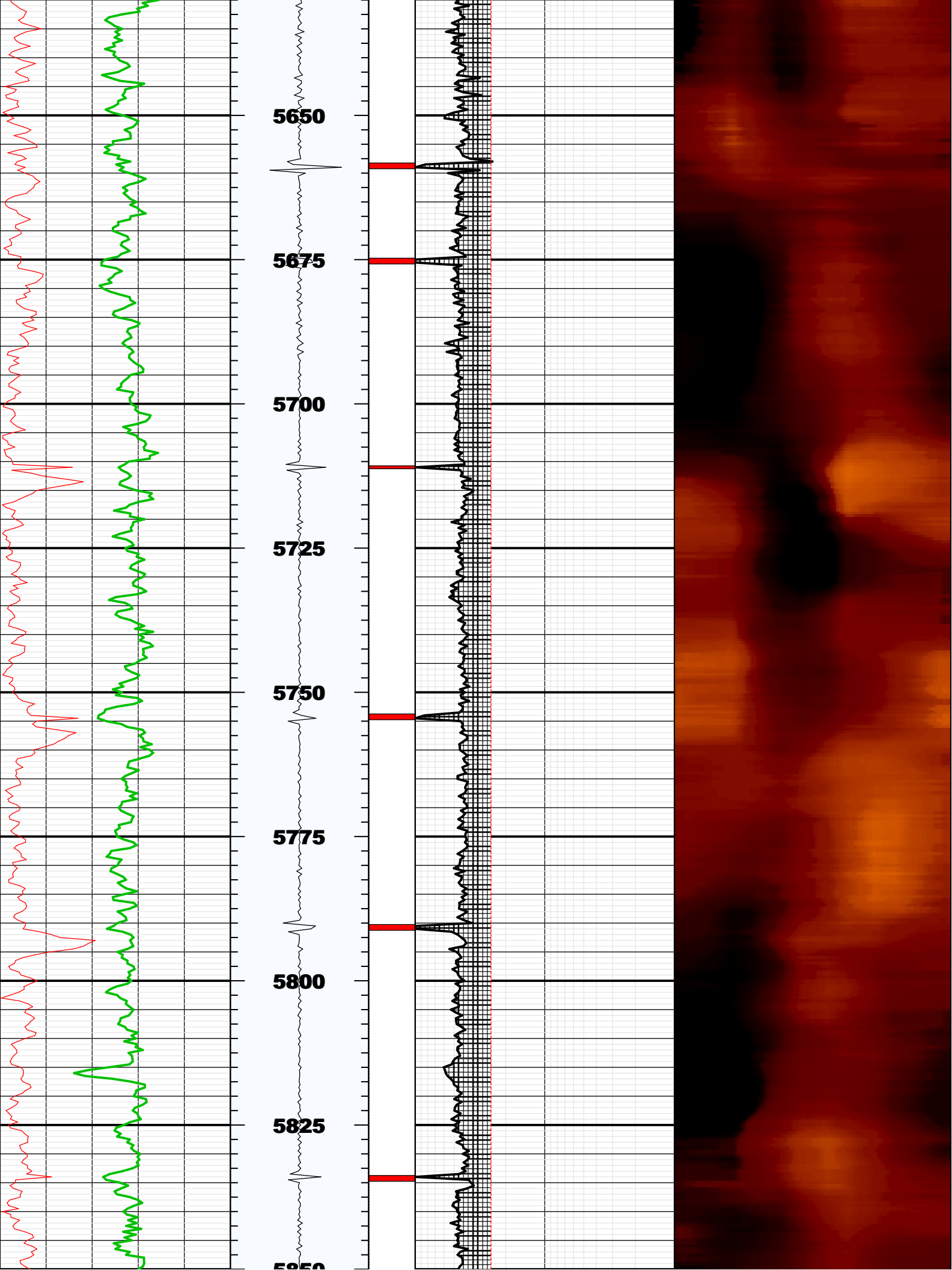




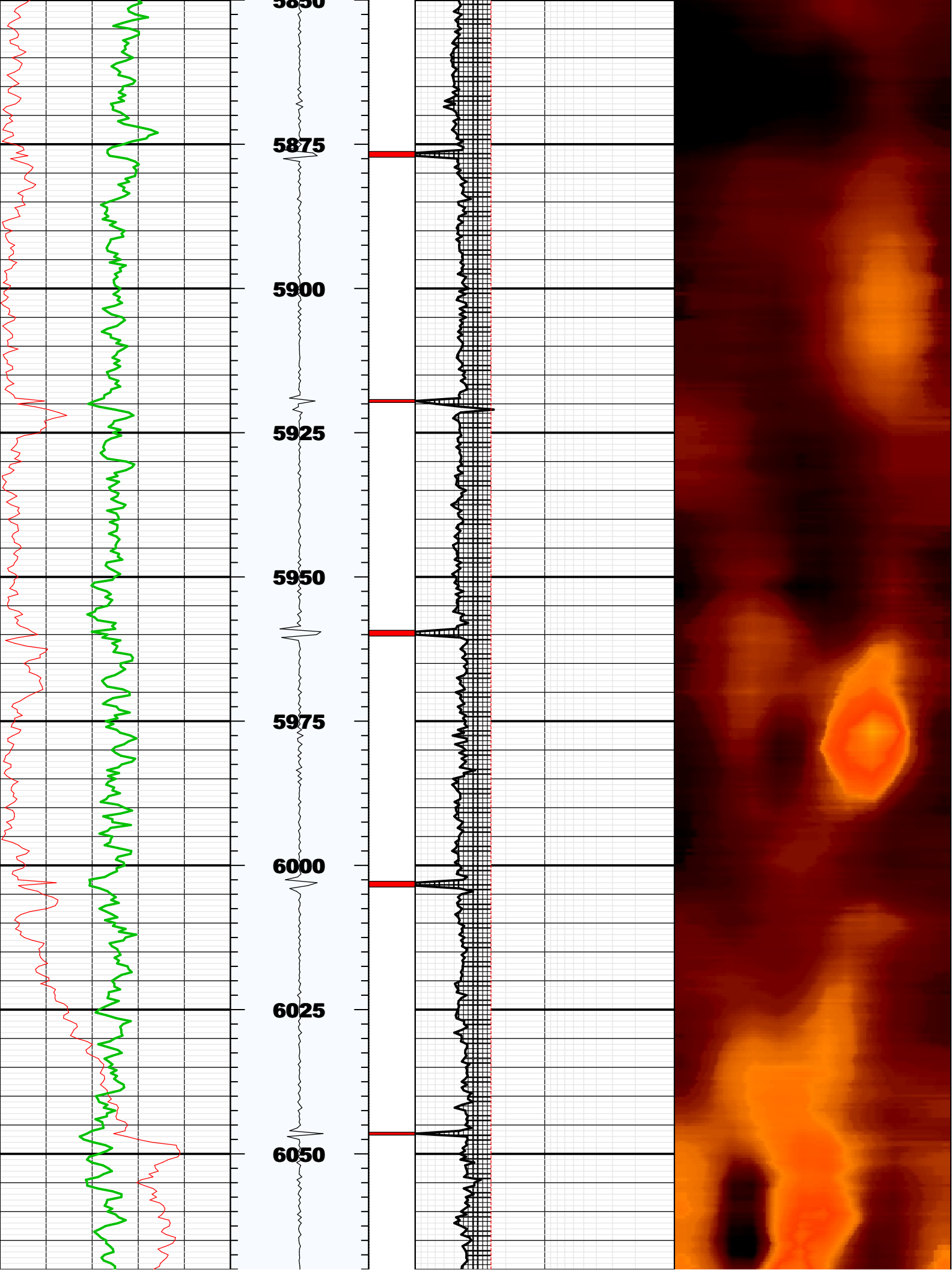


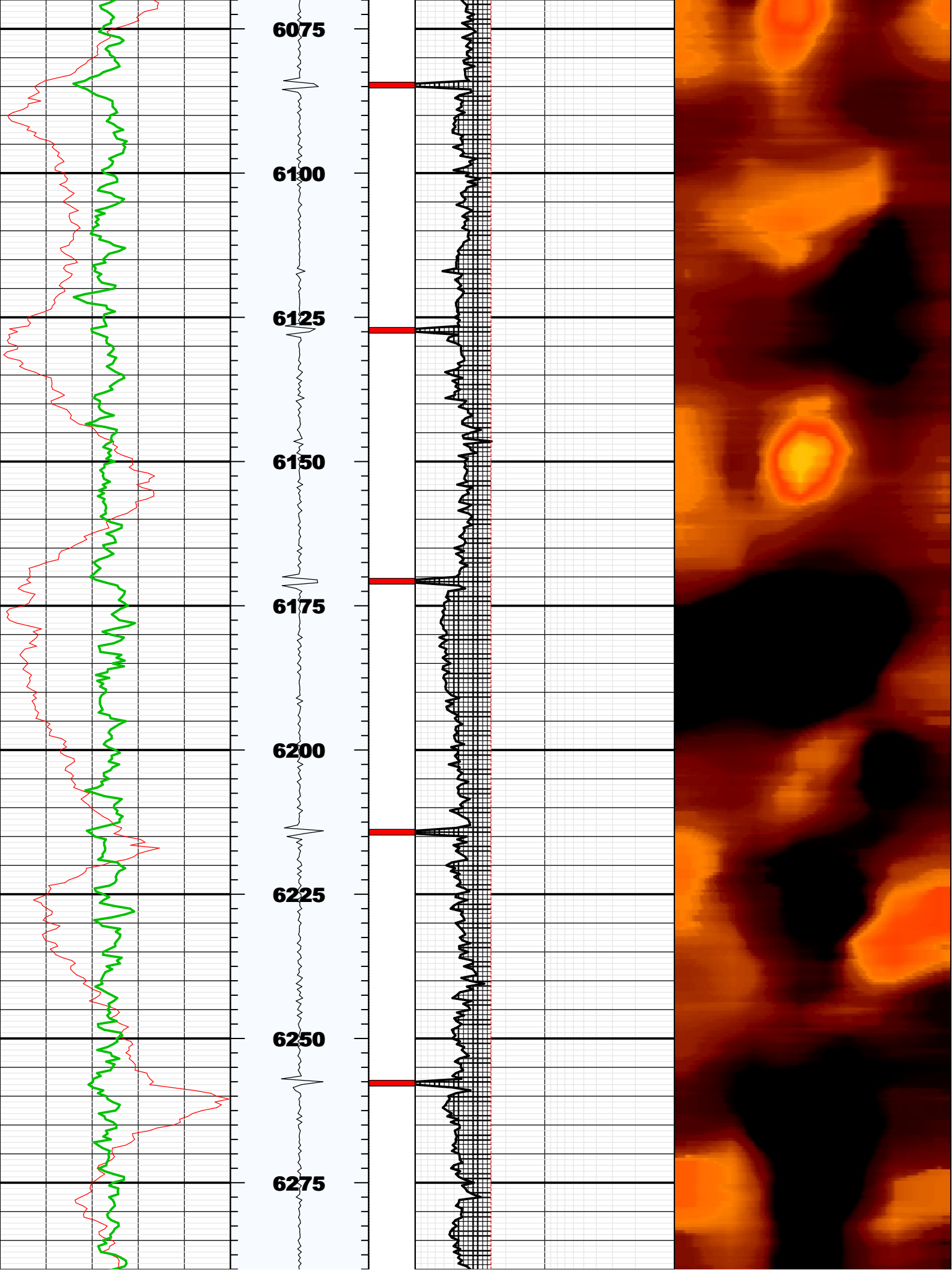


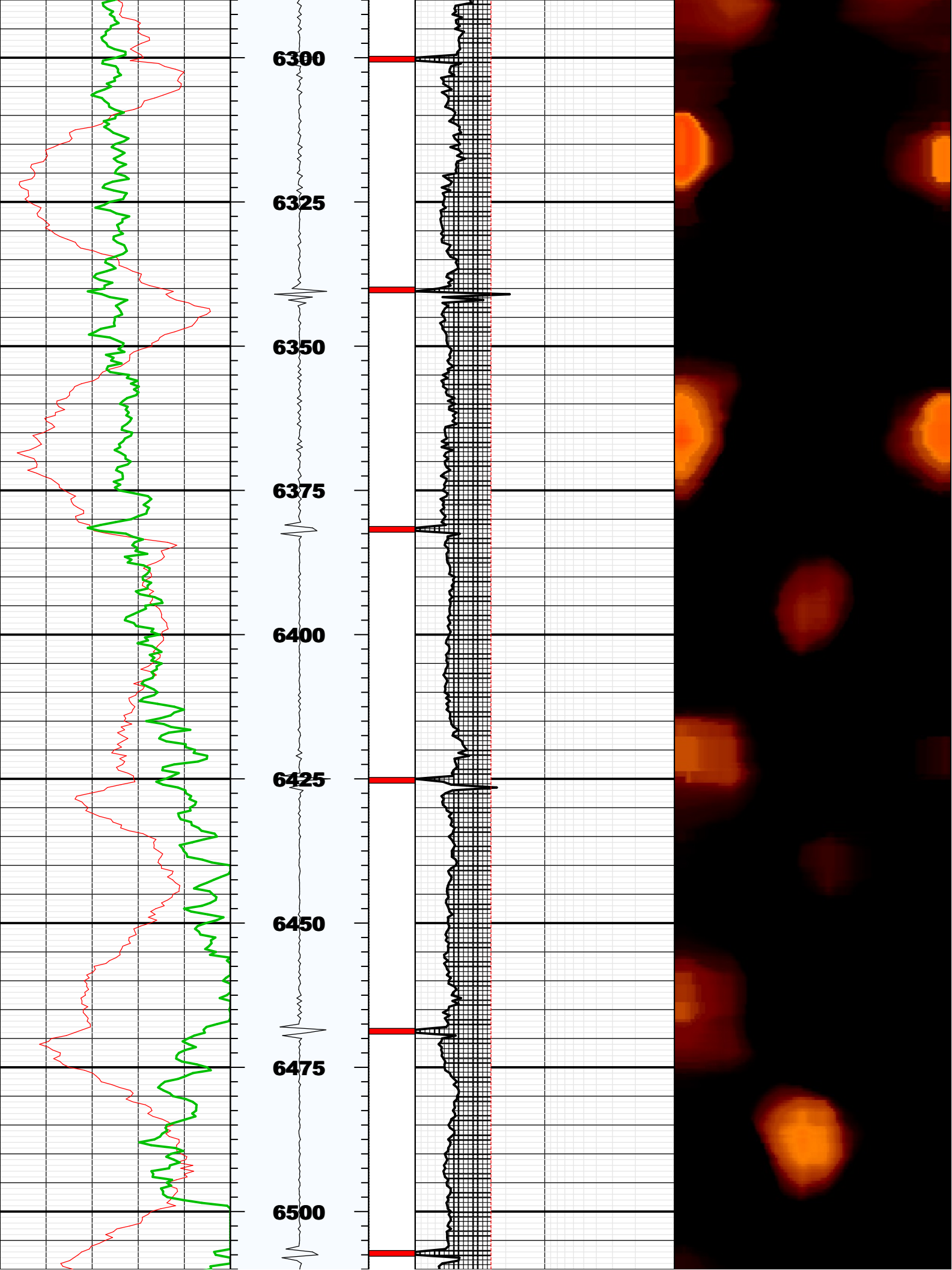




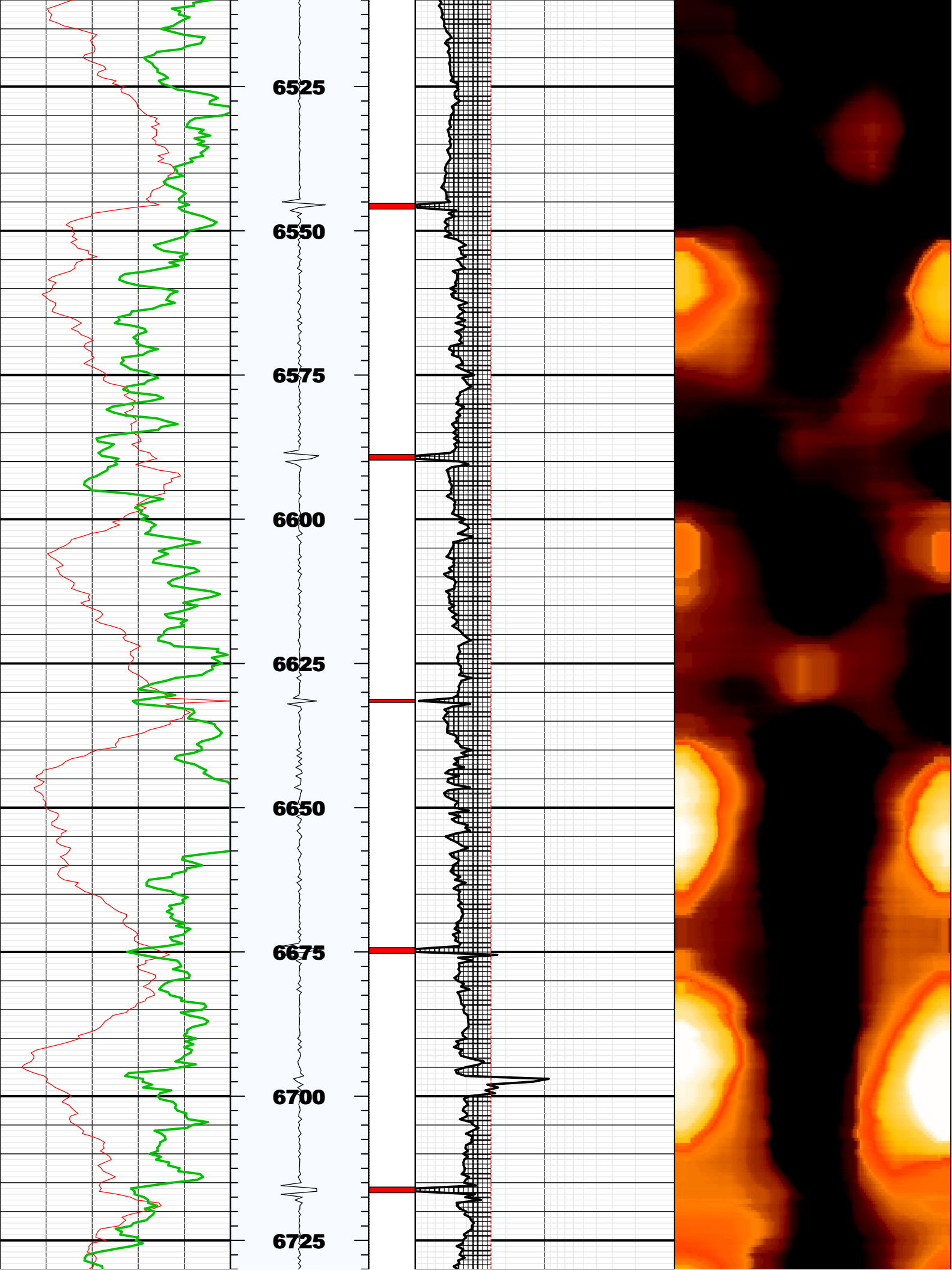


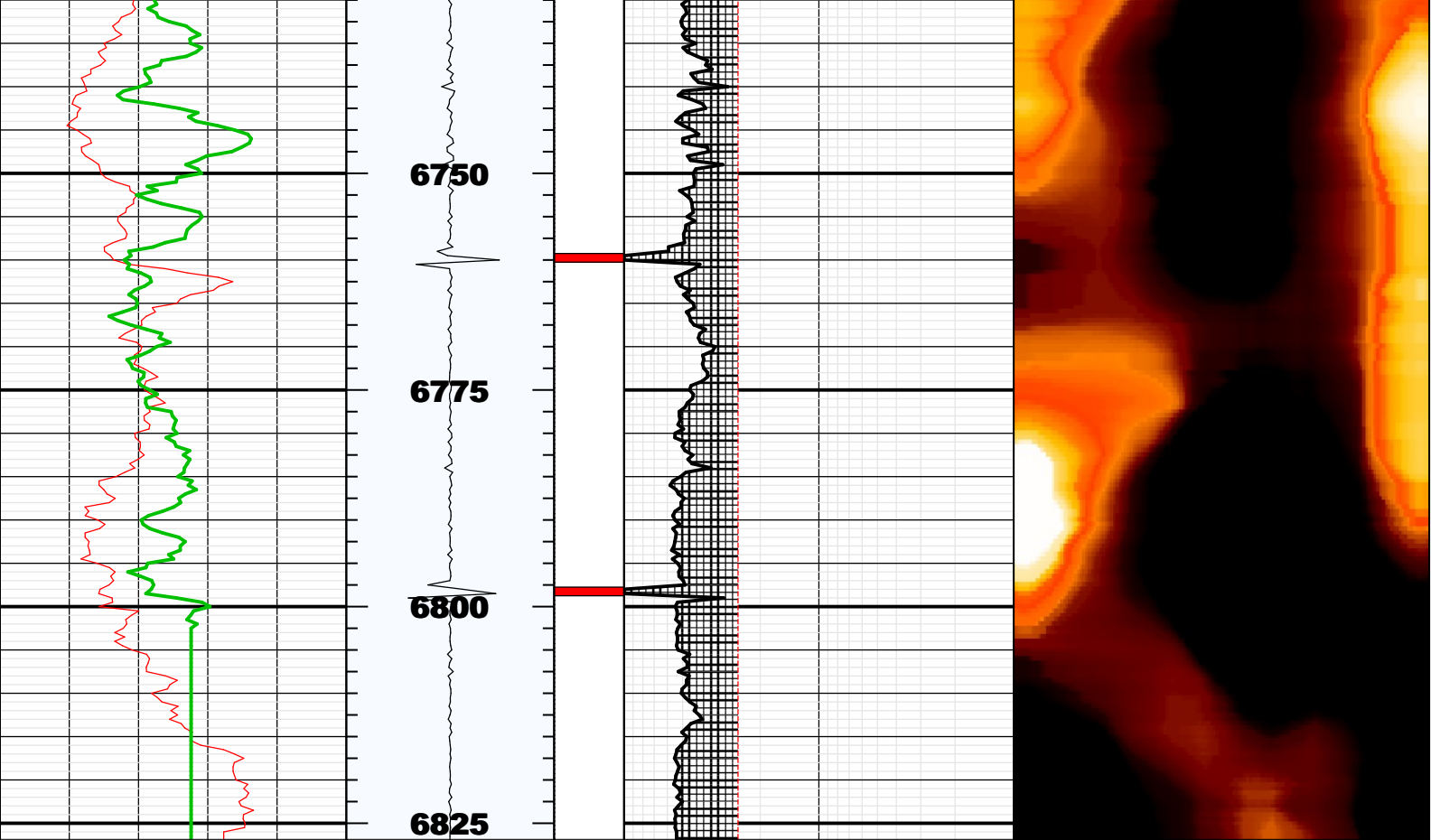








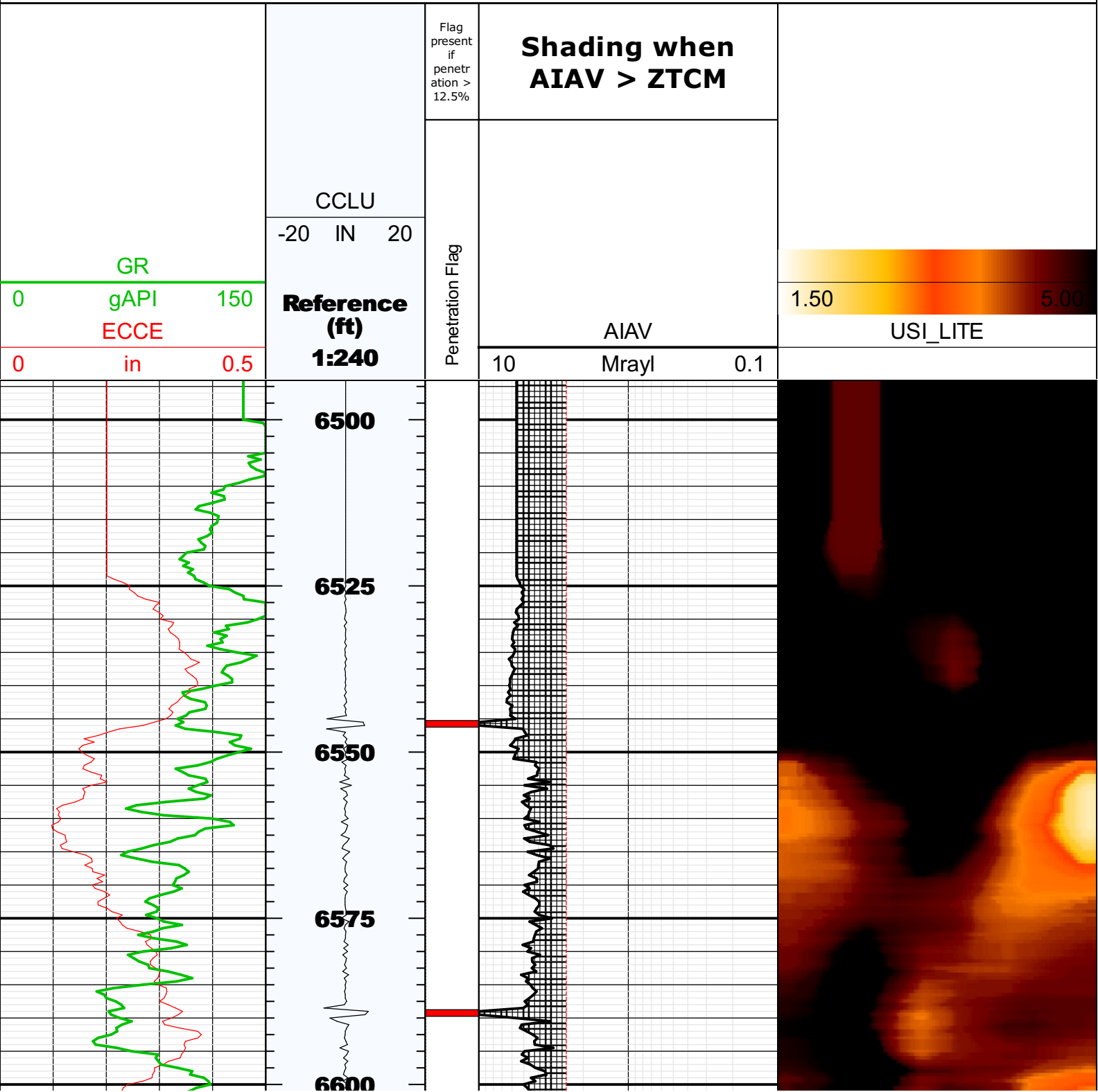


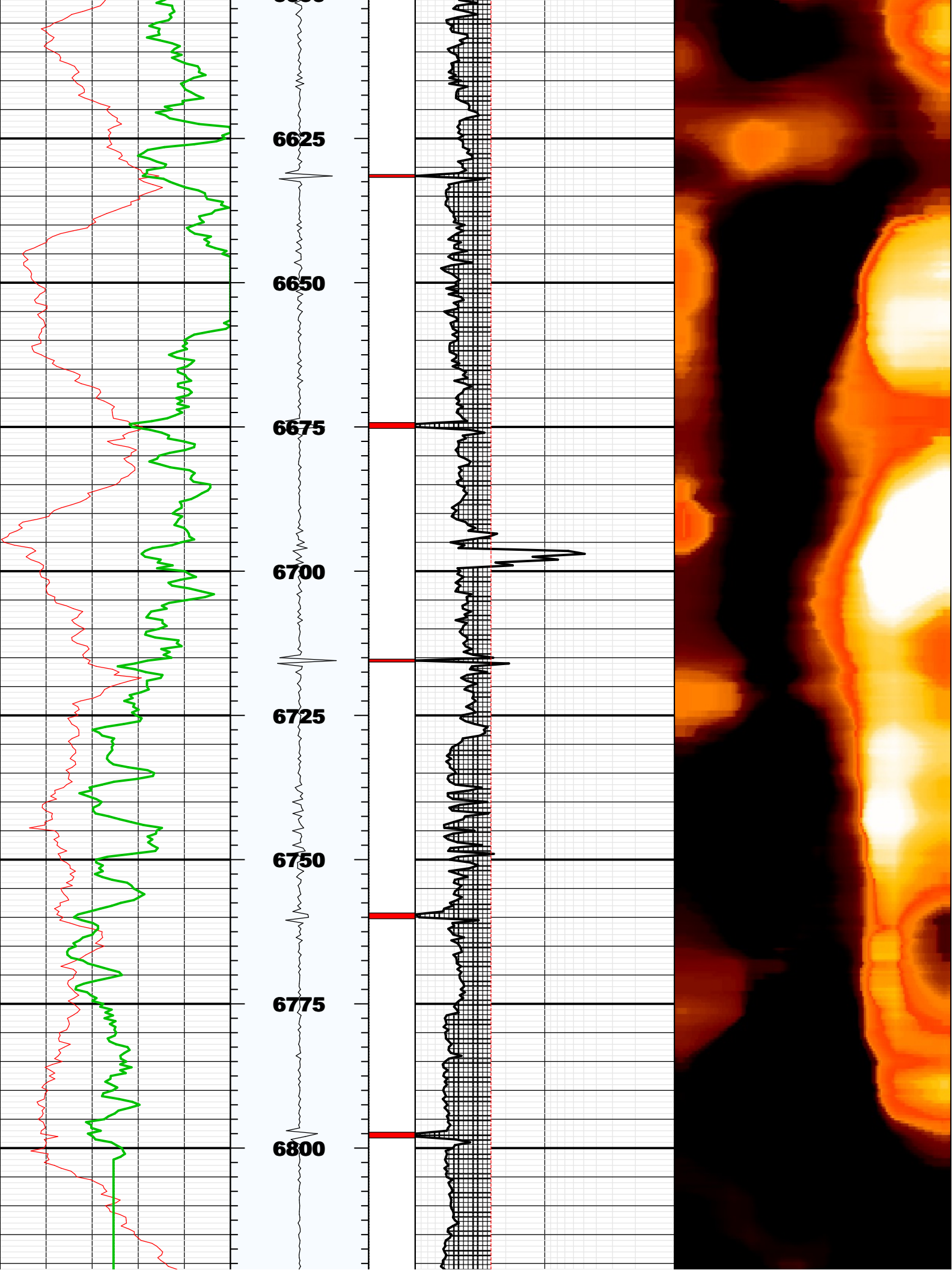


BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	190.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	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	33.86500	US	Window Begin Time
WINE	73.86501	US	Window End Time
ZCAS	46.25000	MRAY	Acoustic Impedance of Casing
ZINI	-1.00000	MRAY	Initial Estimate of Cement Impedance
ZMUD	1.78000	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>^</sup> 3 Processing Length

Repeat Pass

Company: Noble Energy Inc  
Well: Wells Ranch AA35-65-1BHNC  
Field: Wattenberg





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## Fluid Properties Used for Main Pass

