

Company: Noble Energy Inc

Well: Oscar Y10-79-1HC
Field: Wattenberg
County: Weld
State: Colorado

County: Weld				
Field: Wattenberg				
Location: NWSW Sec. 10 T2N R64W				
Well: Oscar Y 10-79-1HC				
Company: Noble Energy Inc				
USI-LITE	LOCATION			Permanent Datum: Log Measured From: Drilling Measured From: GL KB KB Elev: K.B. 4973.0 F G.L. 4943.0 F D.F. 4972.0 F
	API Serial No. 05-123-38192-0000			
	Section 10			
	Township 2N			
	Range 64W			
	Logging Date 17-Apr-2014			
	Run Number 1			
	Depth Driller 14740.0 F			
	Schlumberger Depth 7340.0 F			
	Bottom Log Interval 7340.0 F			
Top Log Interval 30.0 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 -999.2 F				
To 14740.0 F				
Casing Size 7.00 IN				
Weight 26.00 LB/F				
Grade P110				
From 0.0 F				
To 7505.0 F				
Max Recorded Temp 220.0				
Logger on bottom (date) 17-Apr-2014				
Location Fort Morgan CO				
Recorded By Elizabeth Wilson				
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: 11800.00000

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRCTIONS ON USE OF THE RECORDED-DATA (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF ANR RELIANCE UPN THE RECORDED-DATA; AND (c)CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISIONS MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA

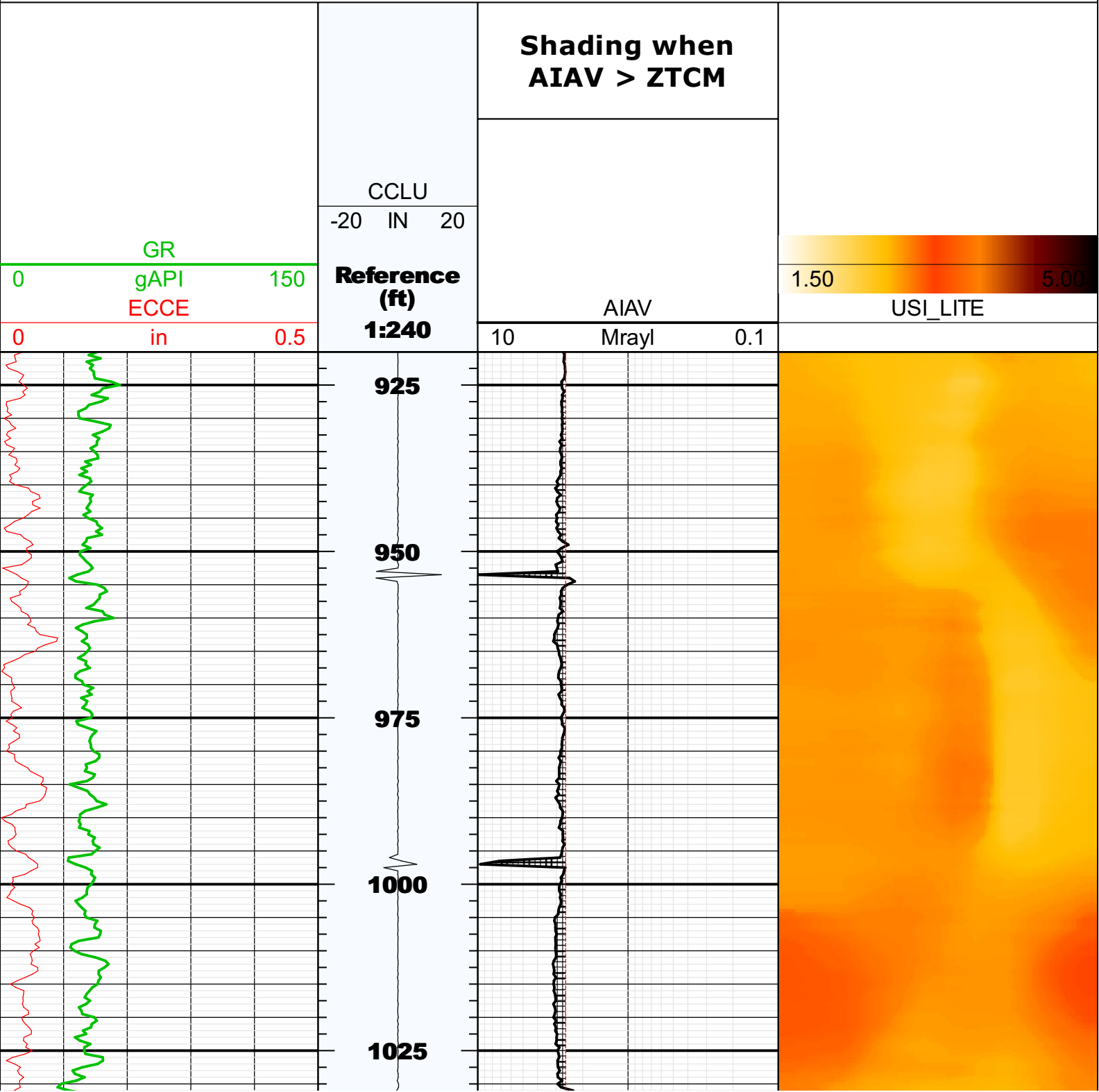
This is the first run in hole
Toolstring run as per tool sketch

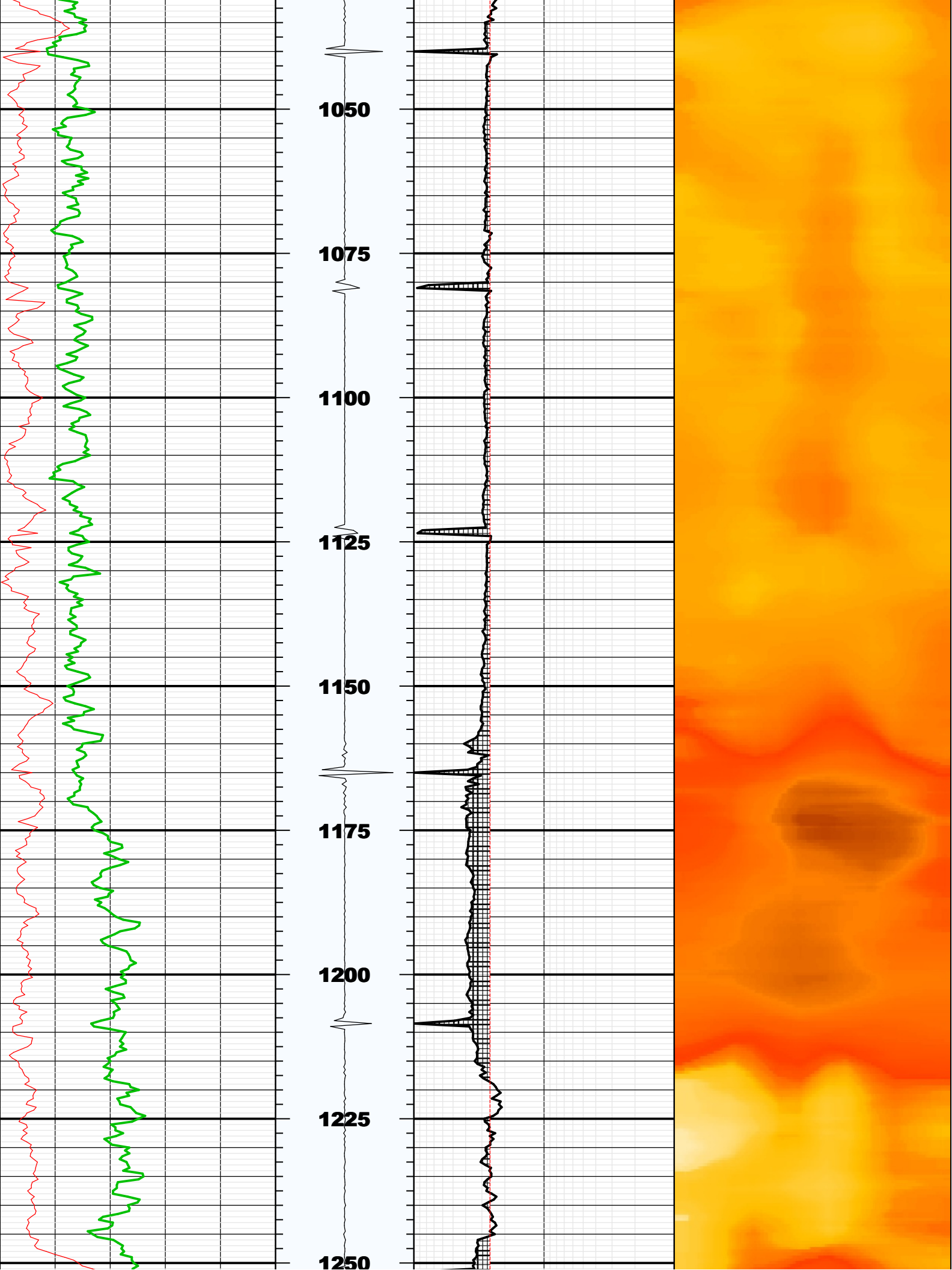
Lead cement 12.5 ppg
Tail cement 13.8 ppg
Main pass ran at 2500 psi
Repeat pass ran at 0 psi

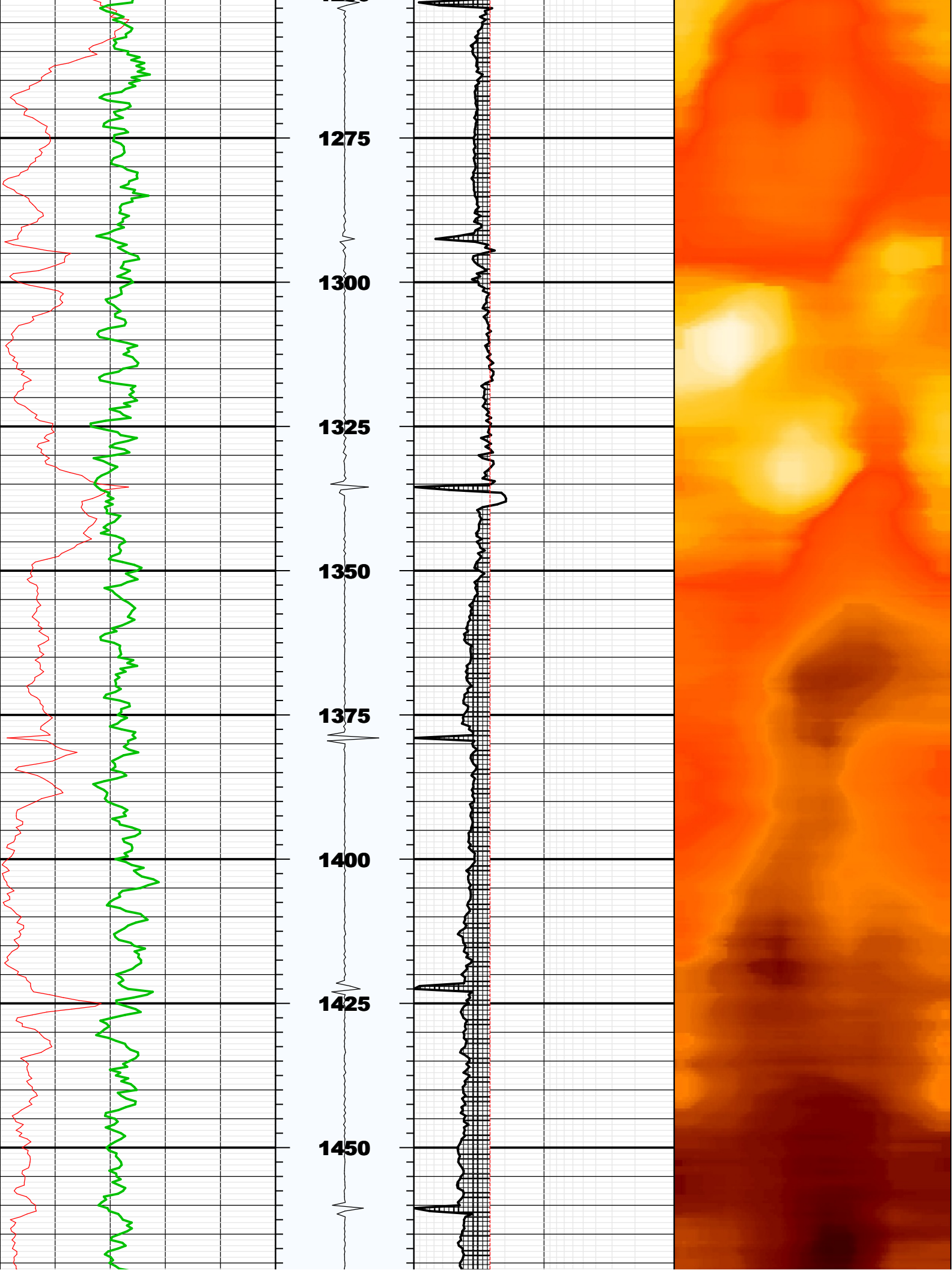
Crew Tim Hoffman Troy Ocanas Tyler Riter Elizabeth Wilson

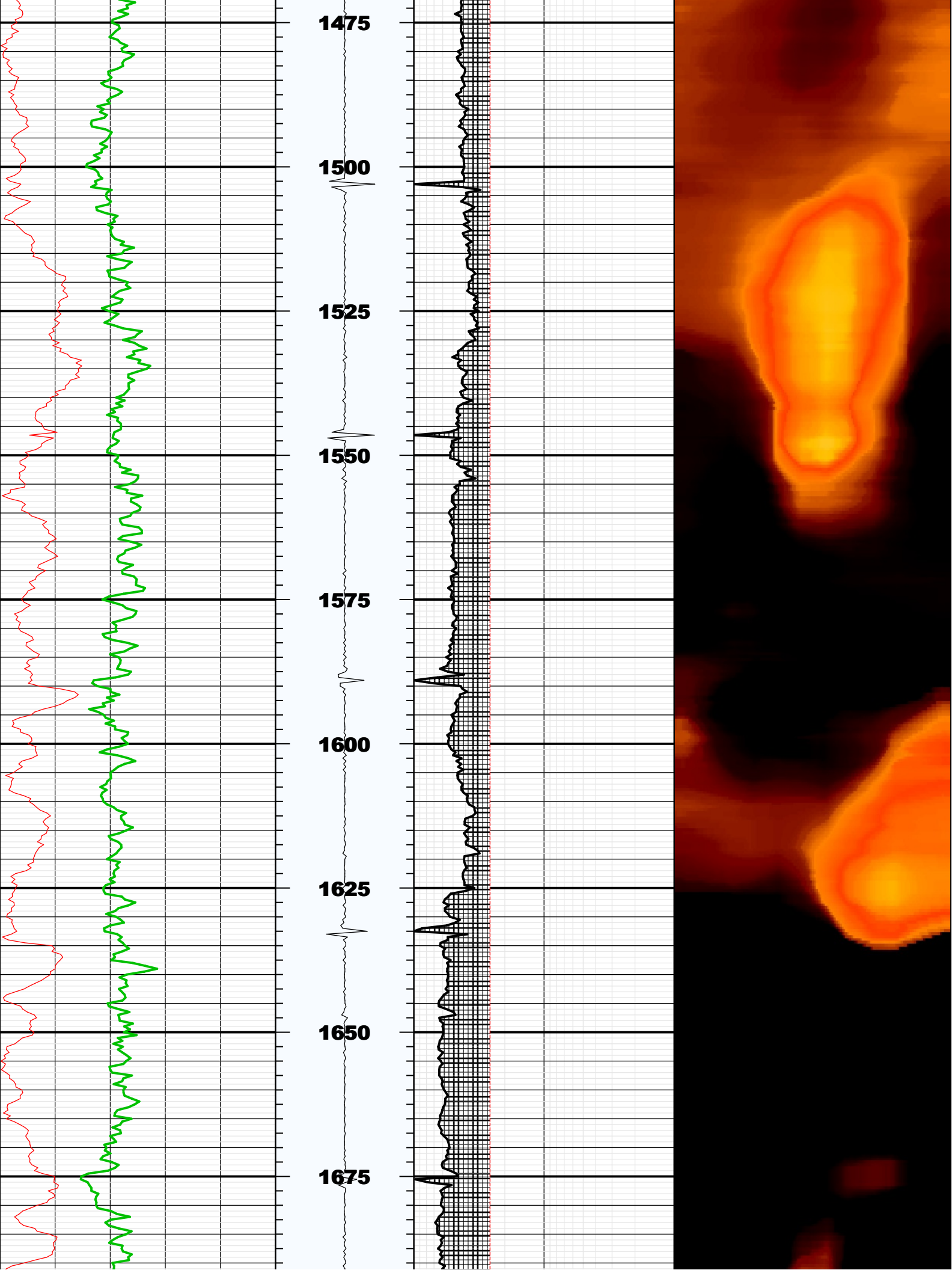
Main Pass

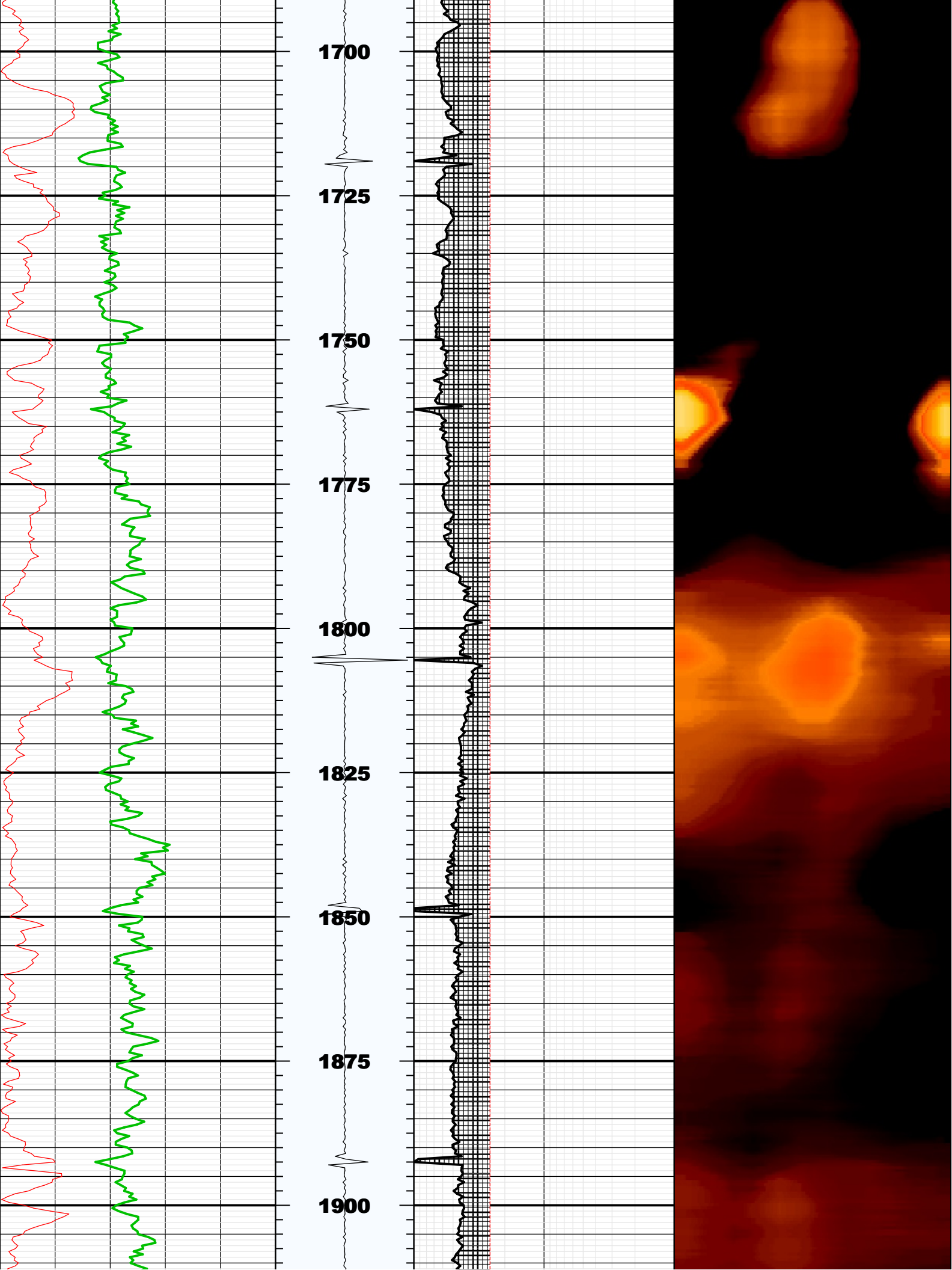
Company: Noble Energy Inc
Well: Oscar Y 10-79-1HC
Field: Wattenberg

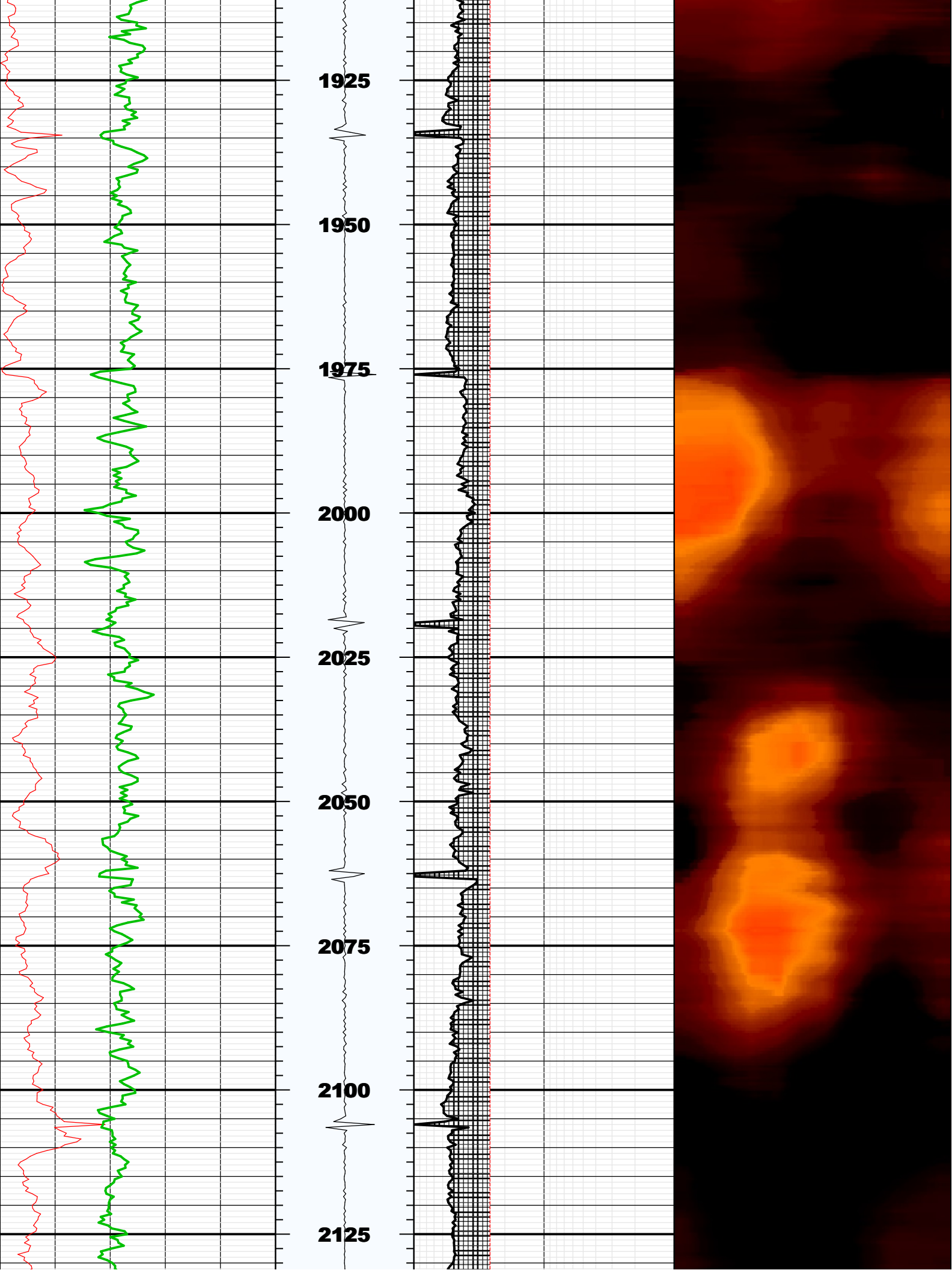


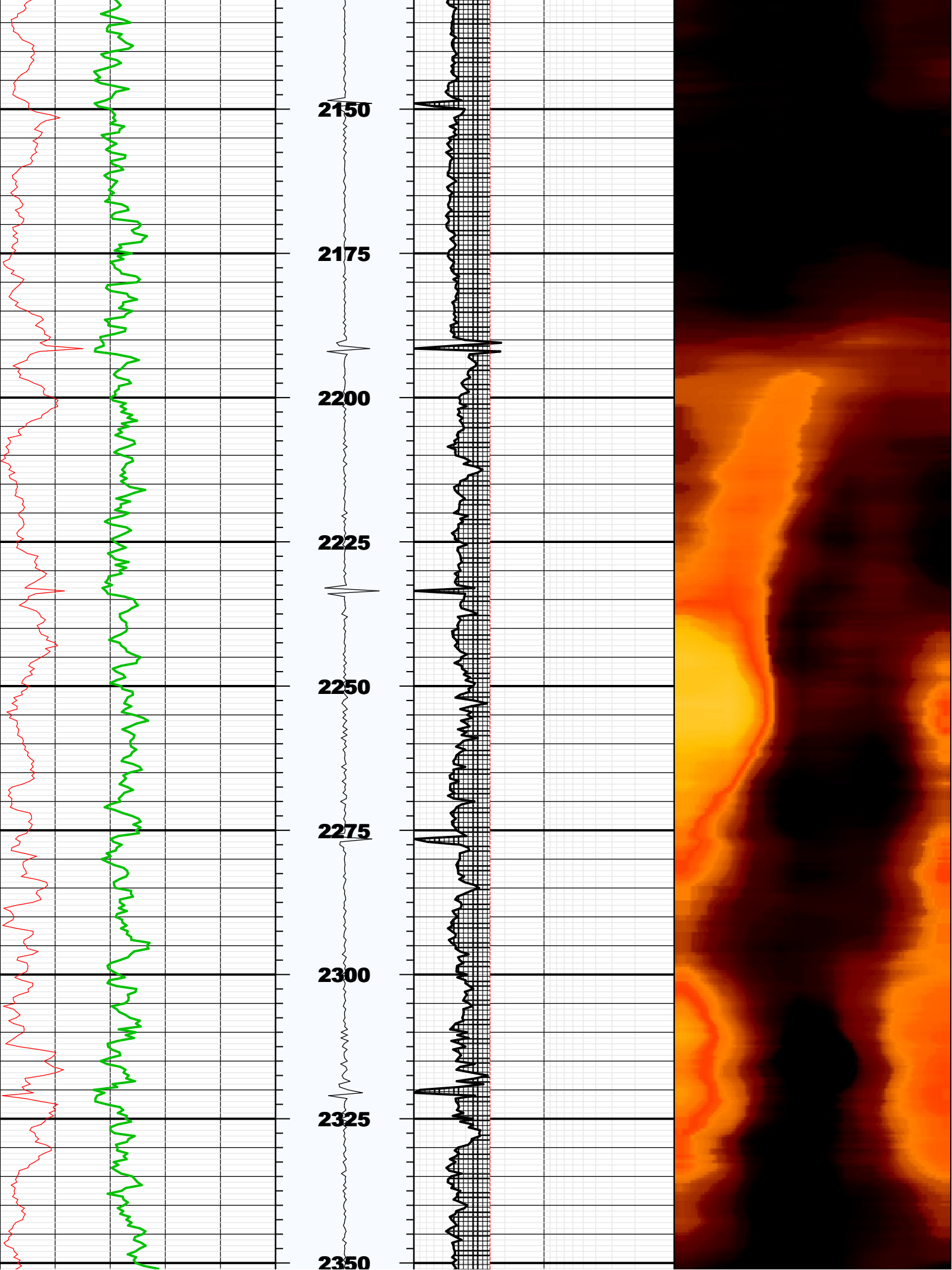


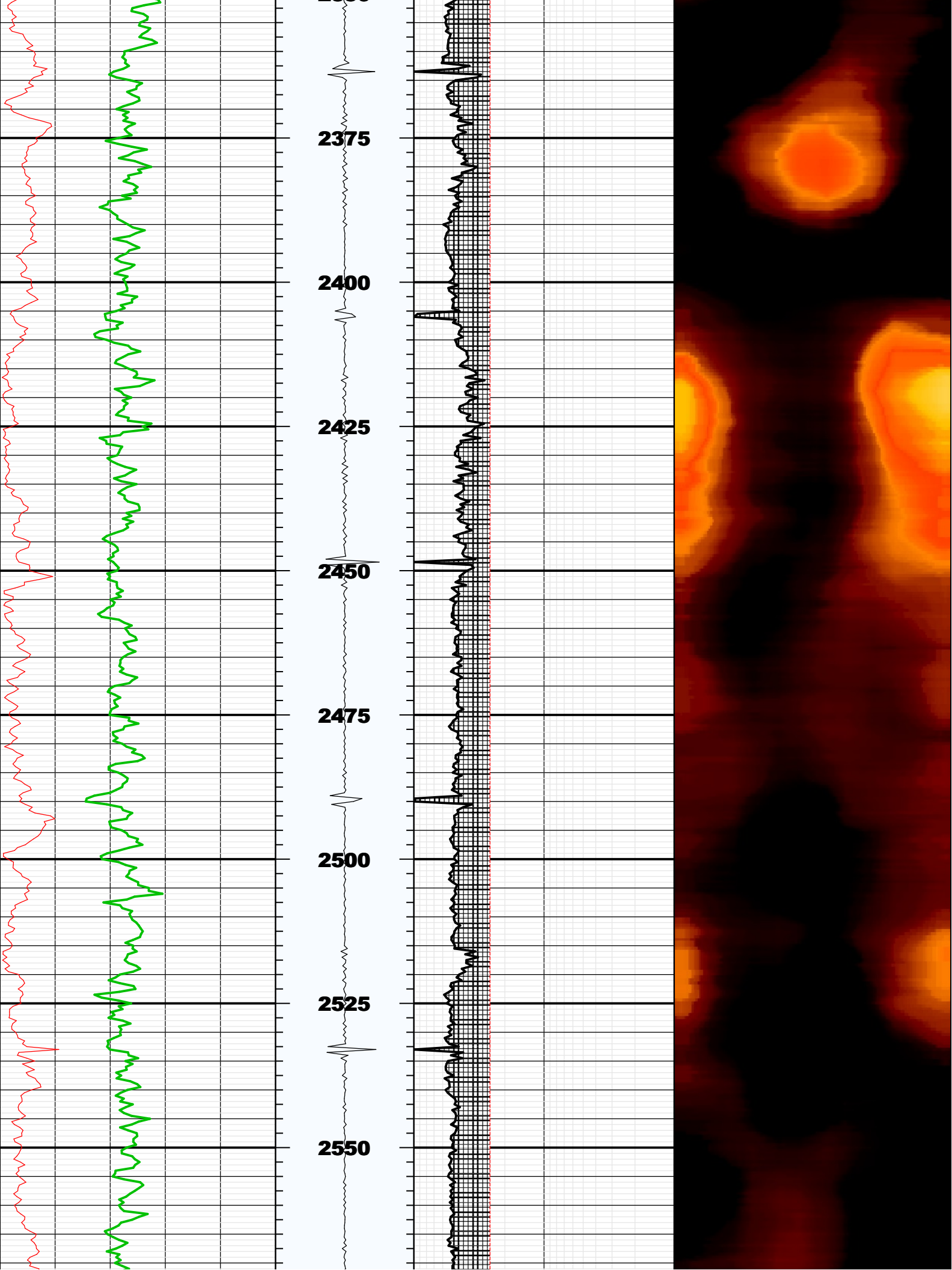


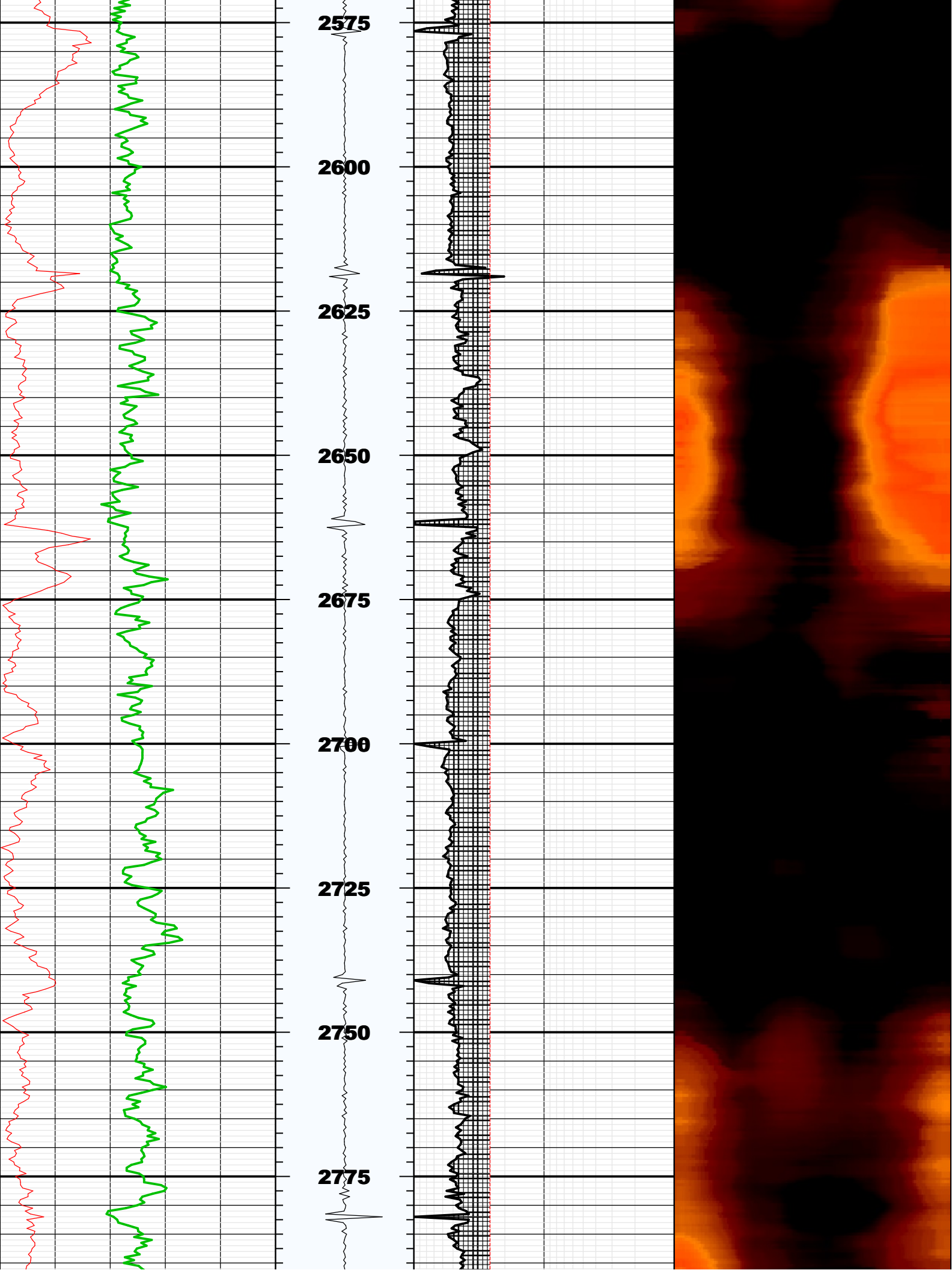


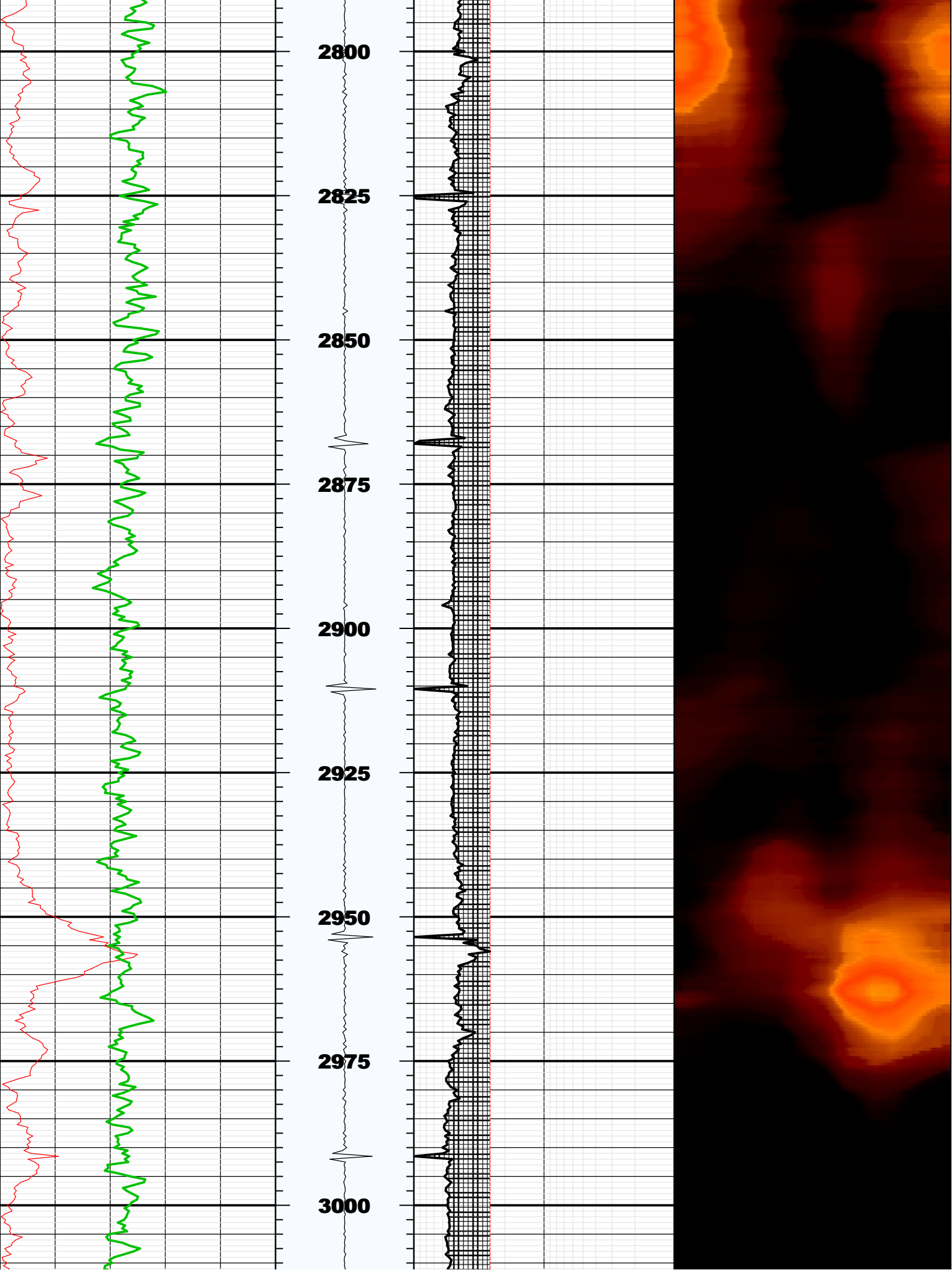


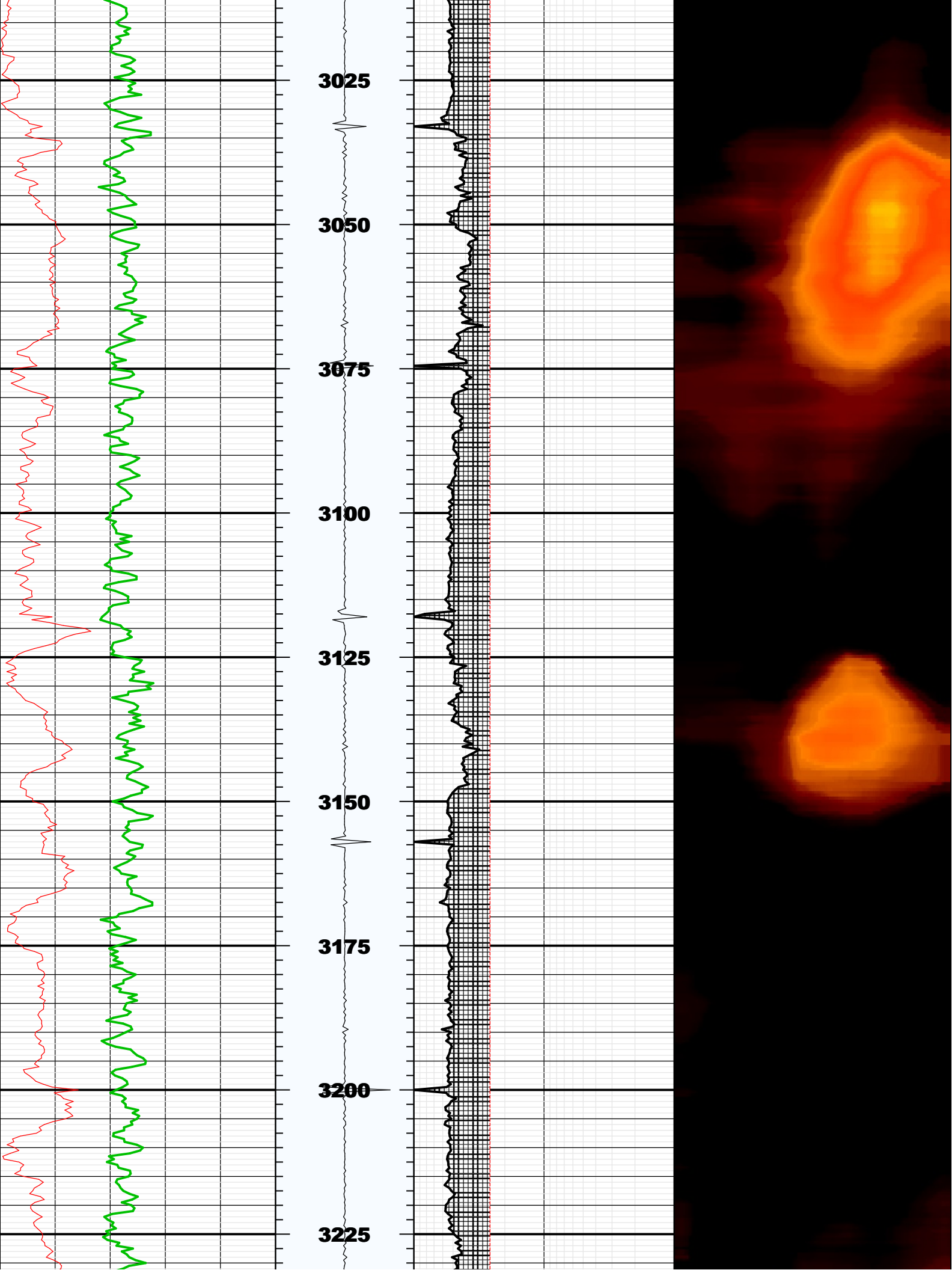


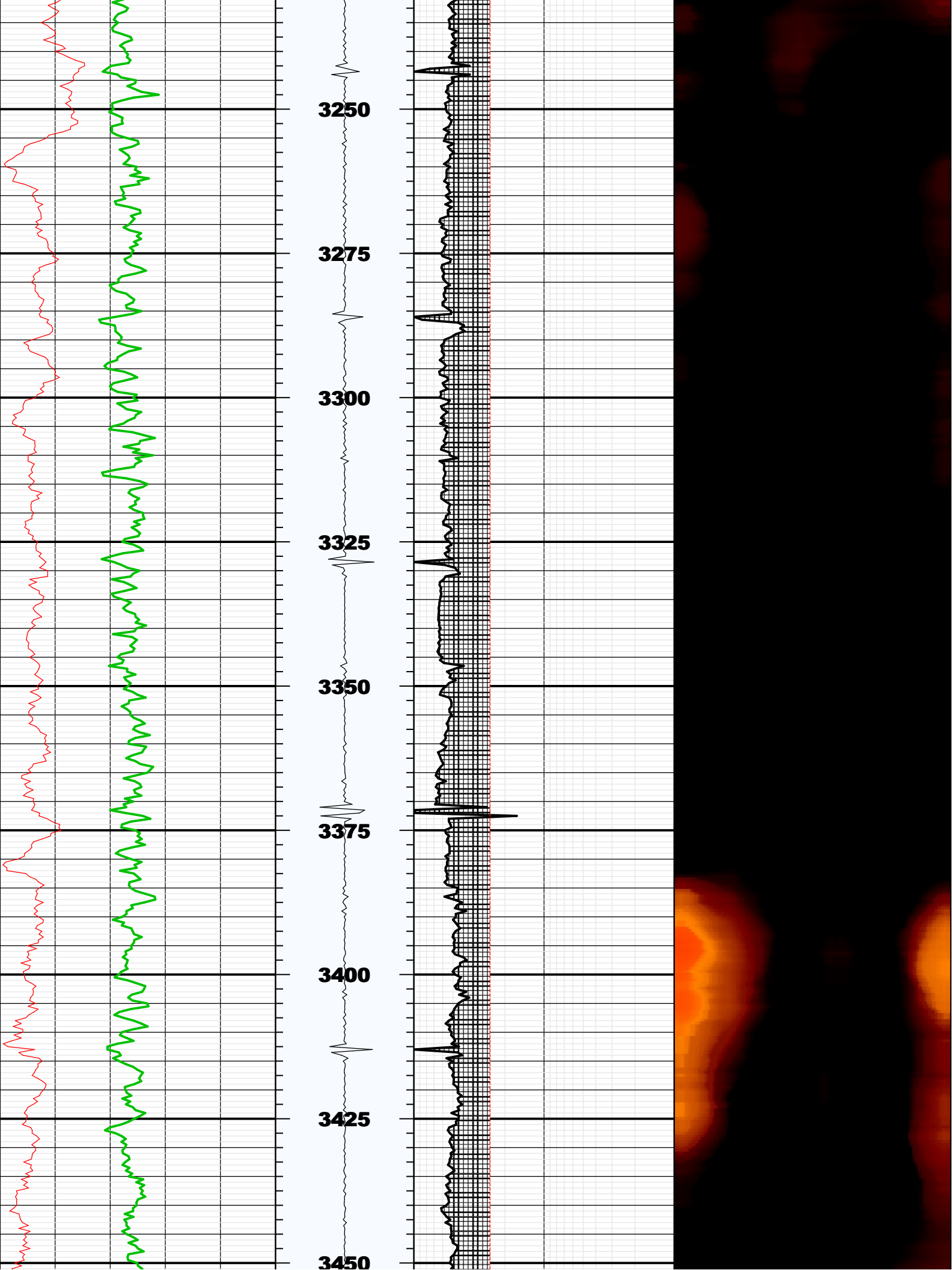


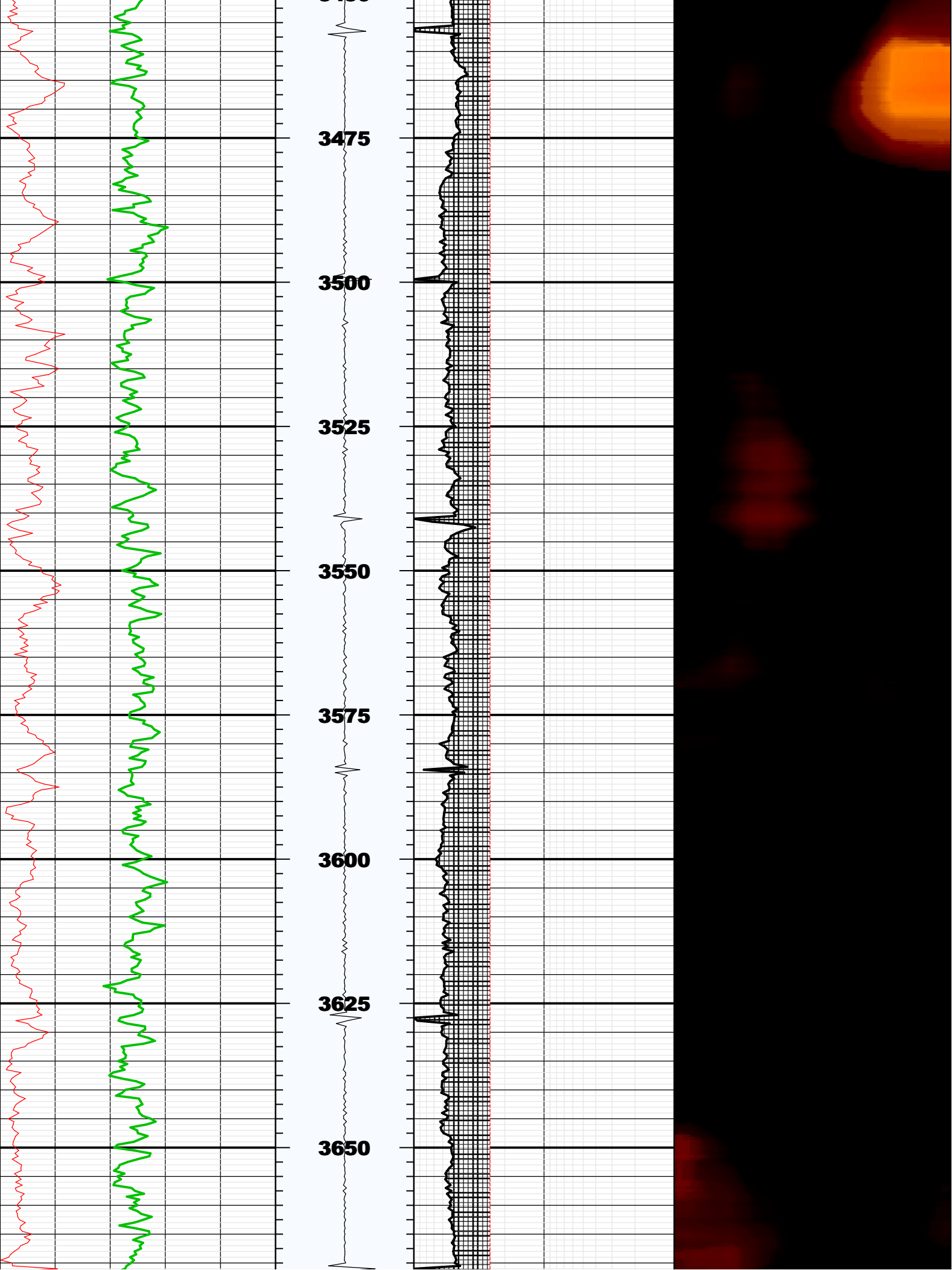


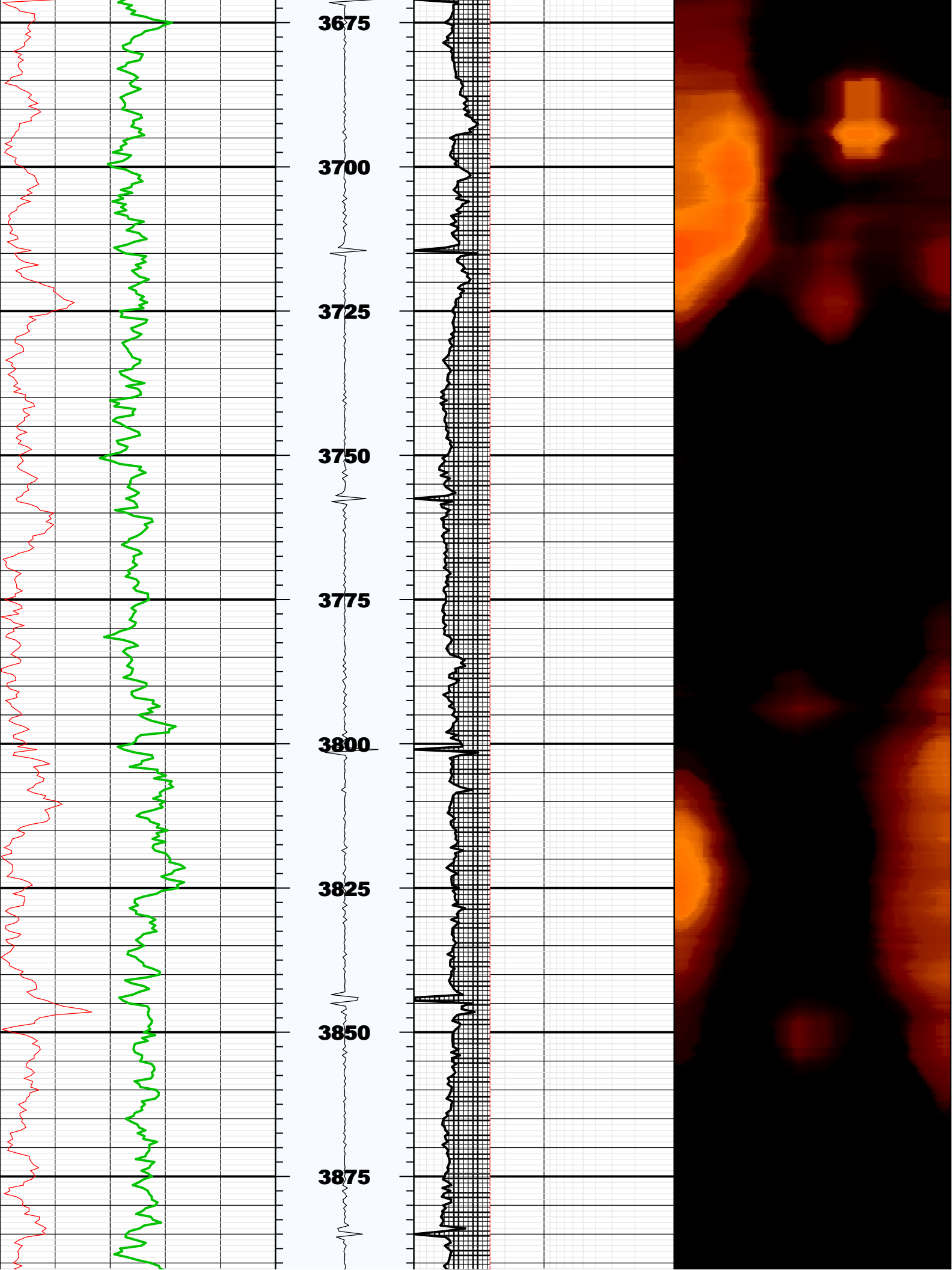


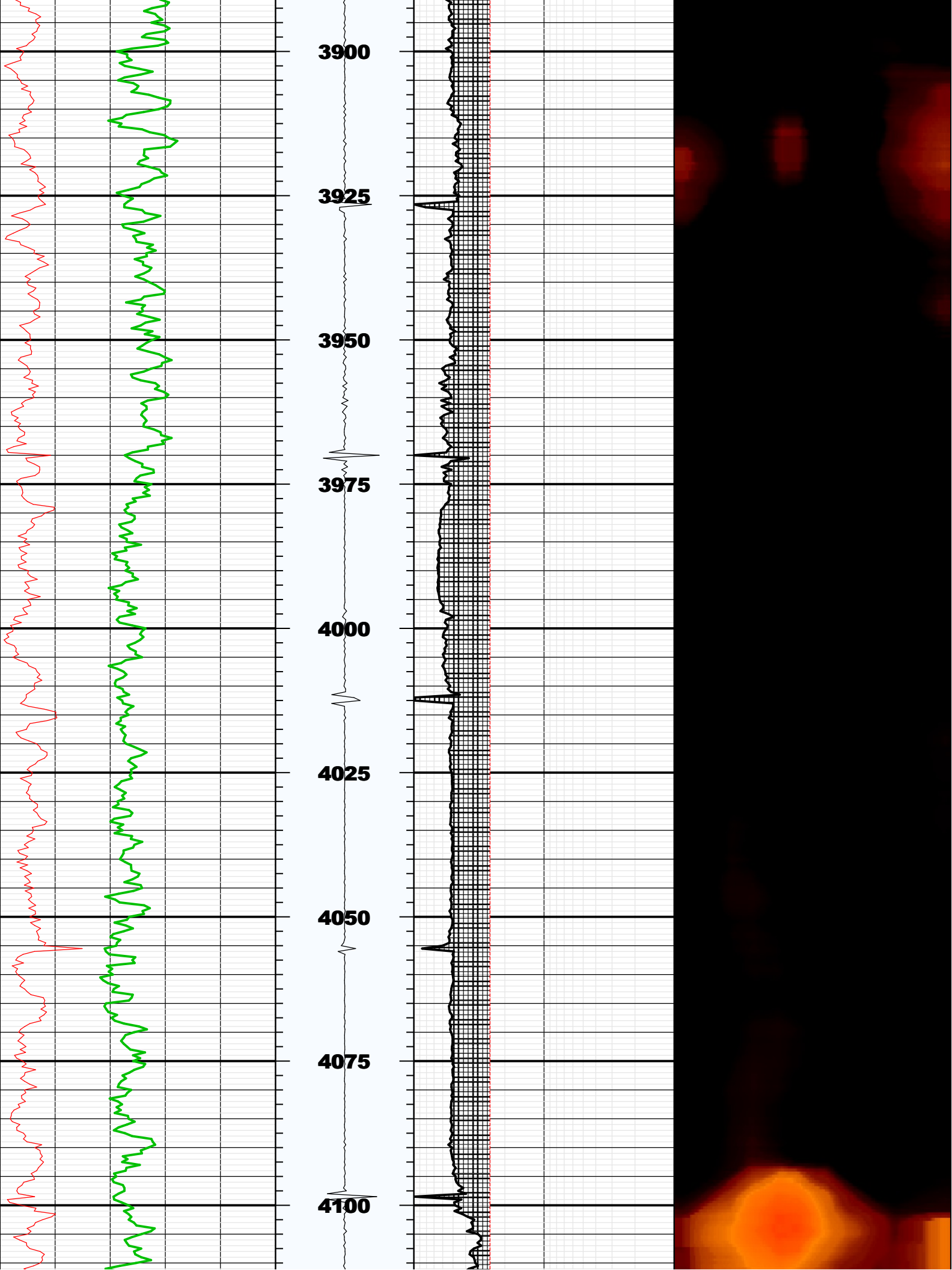


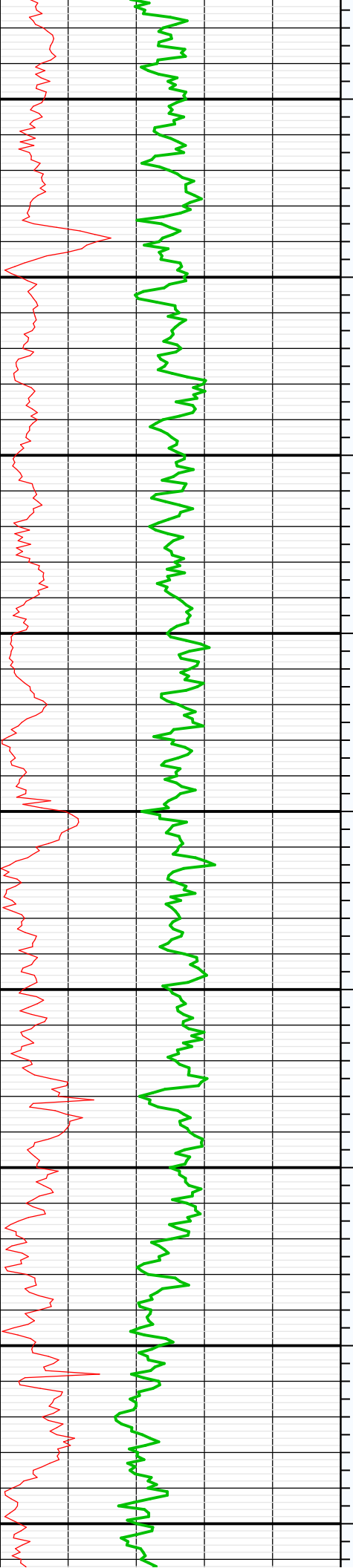












4125

4150

4175

4200

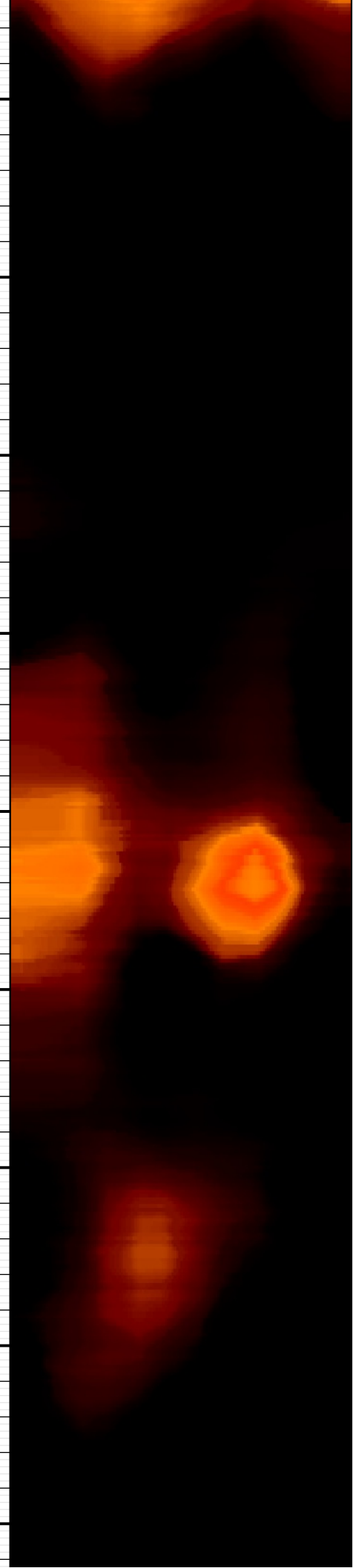
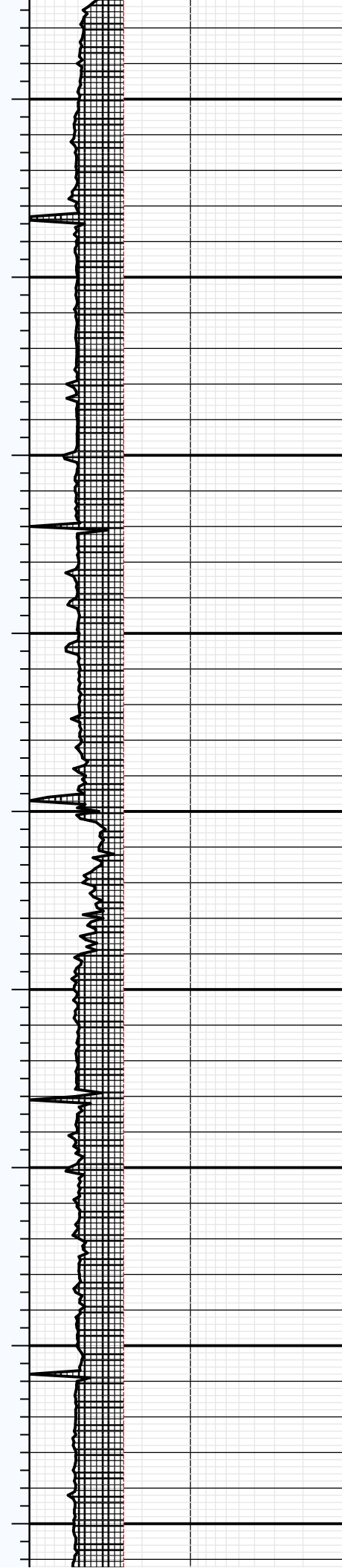
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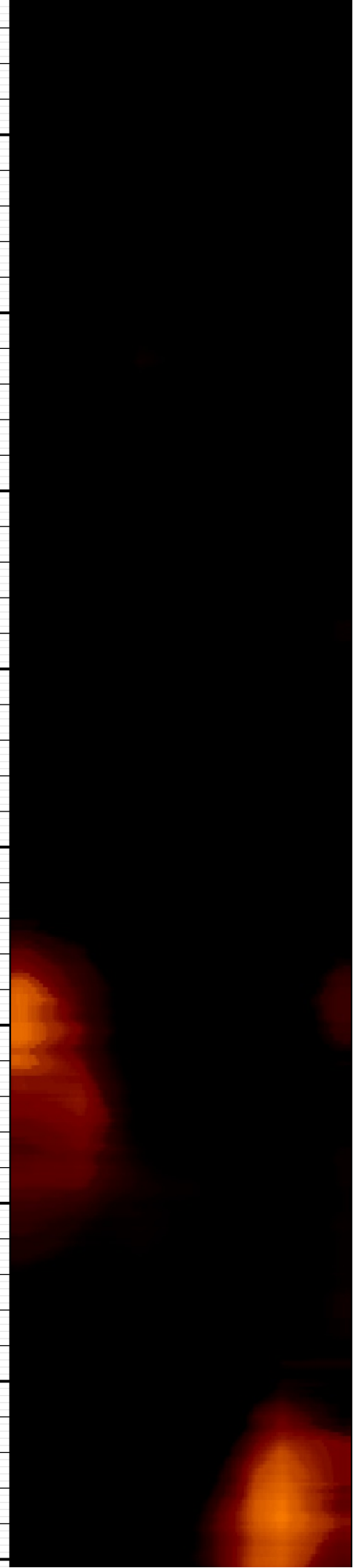
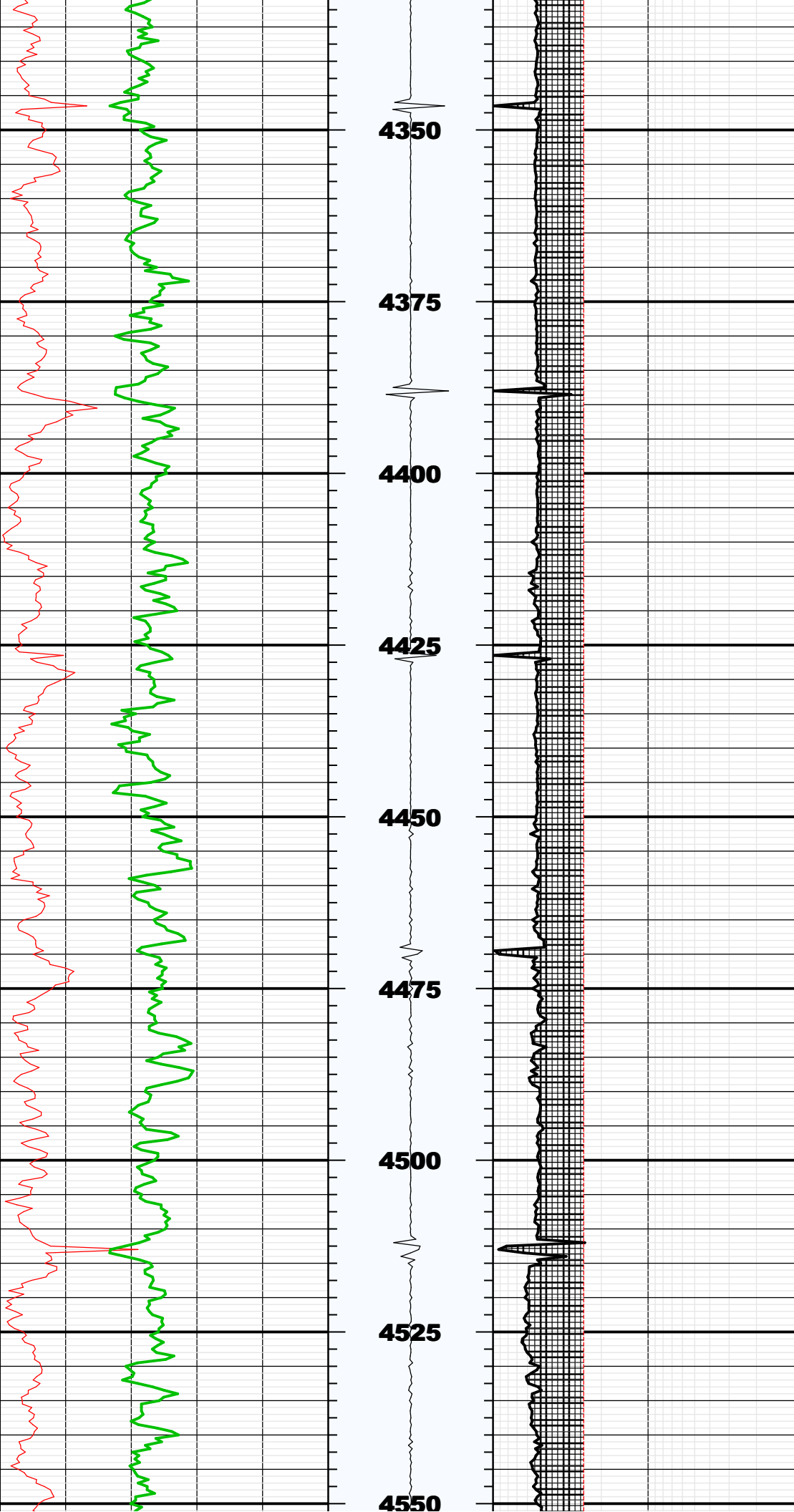
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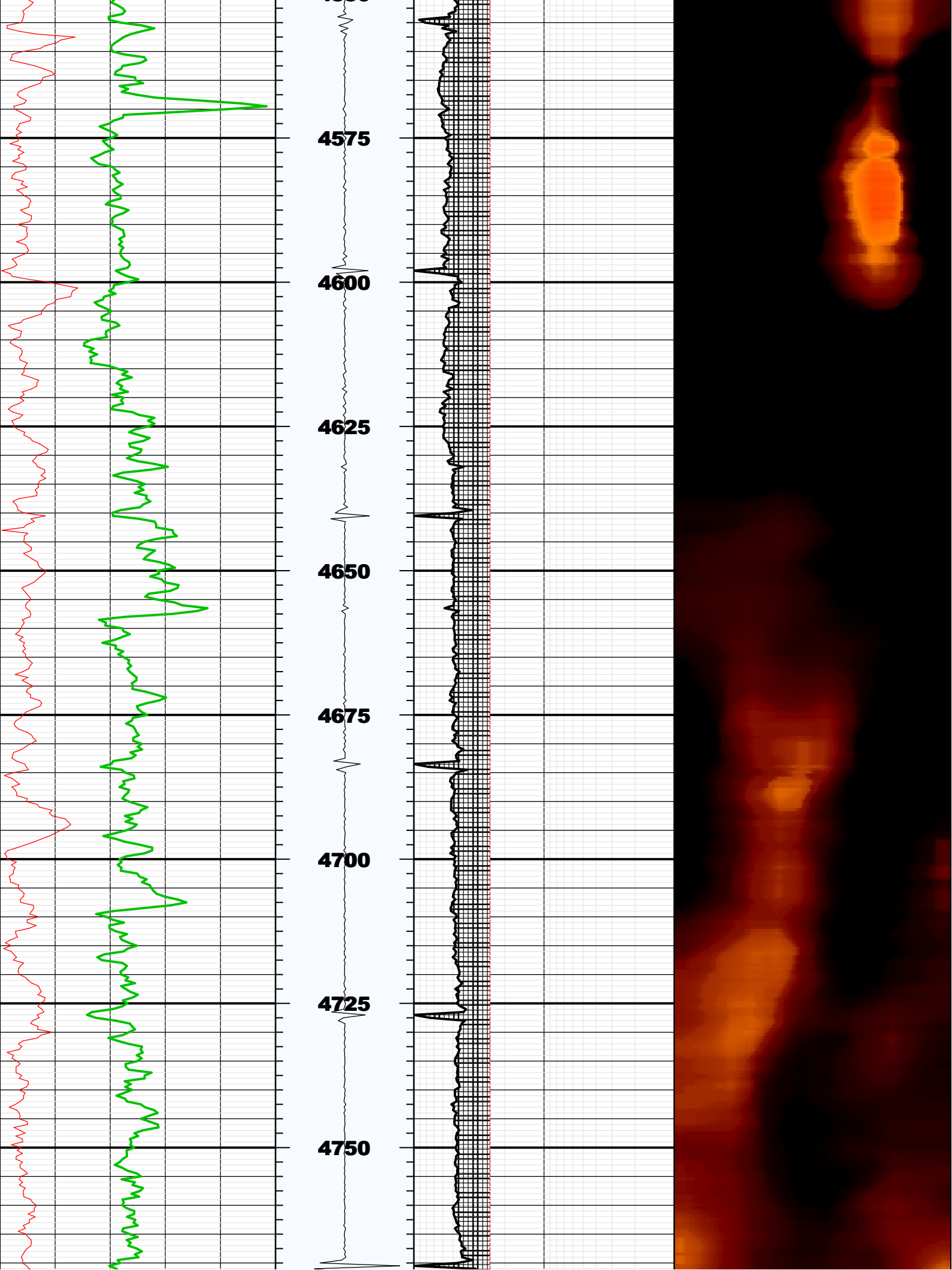
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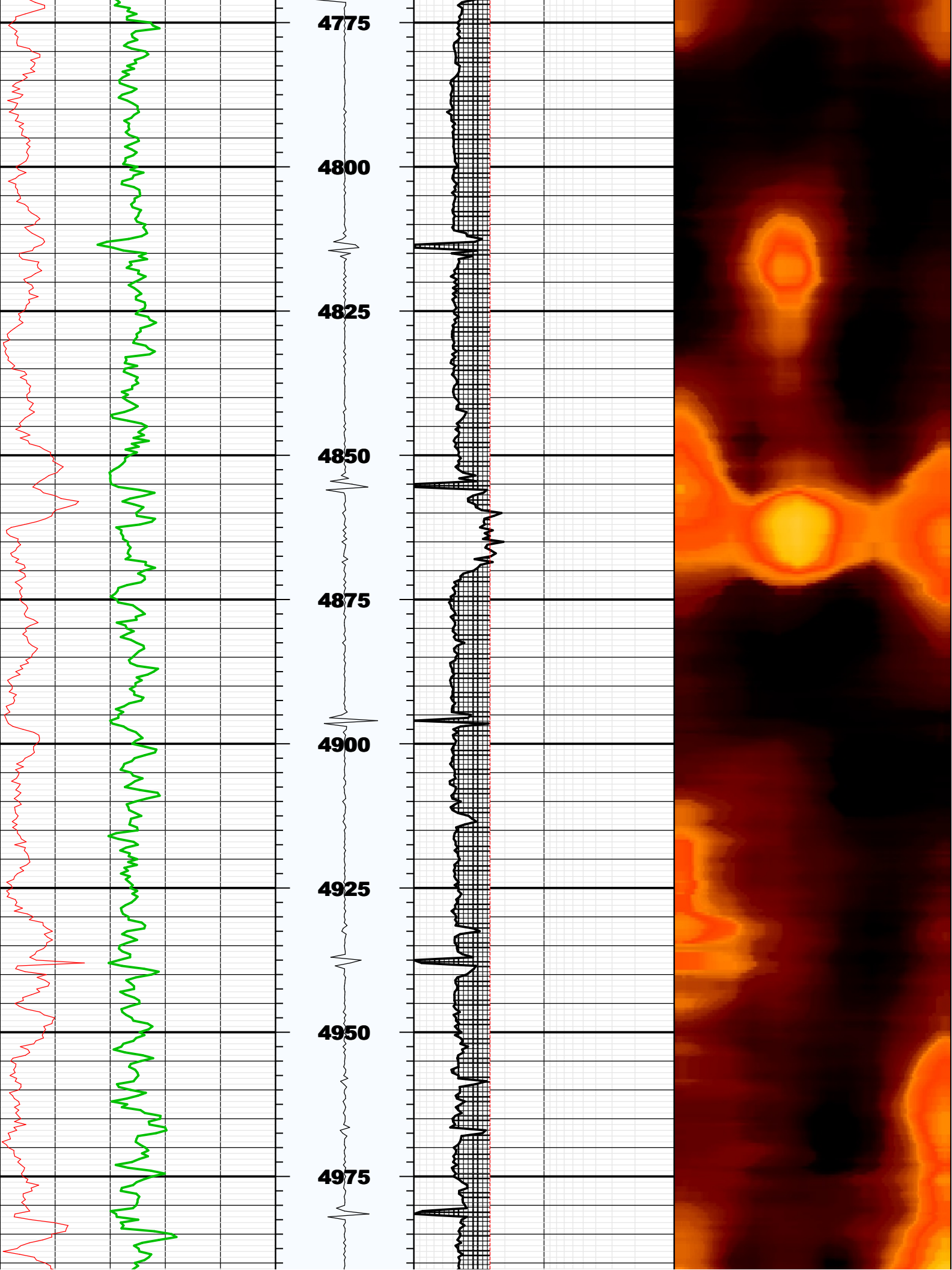
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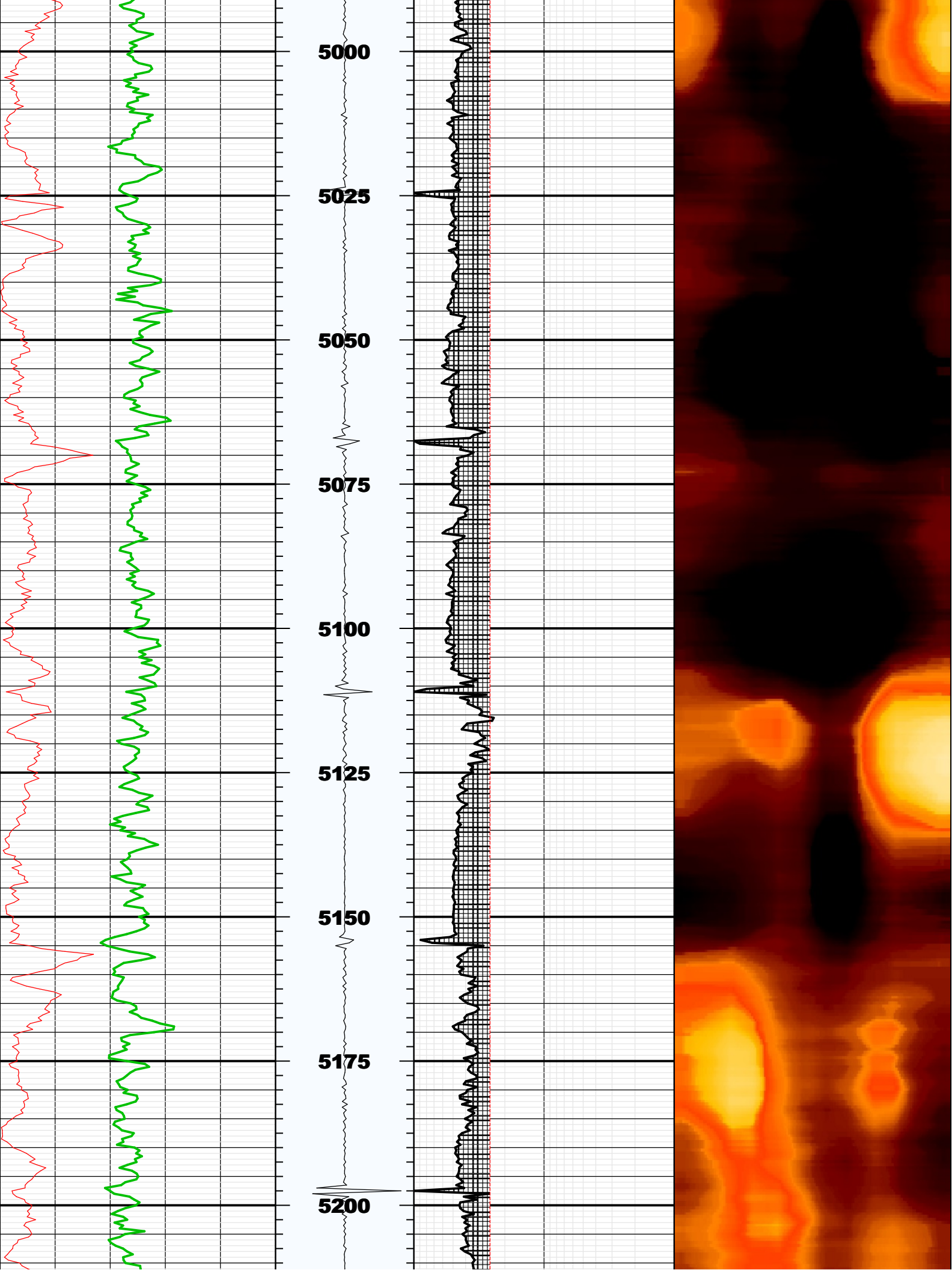
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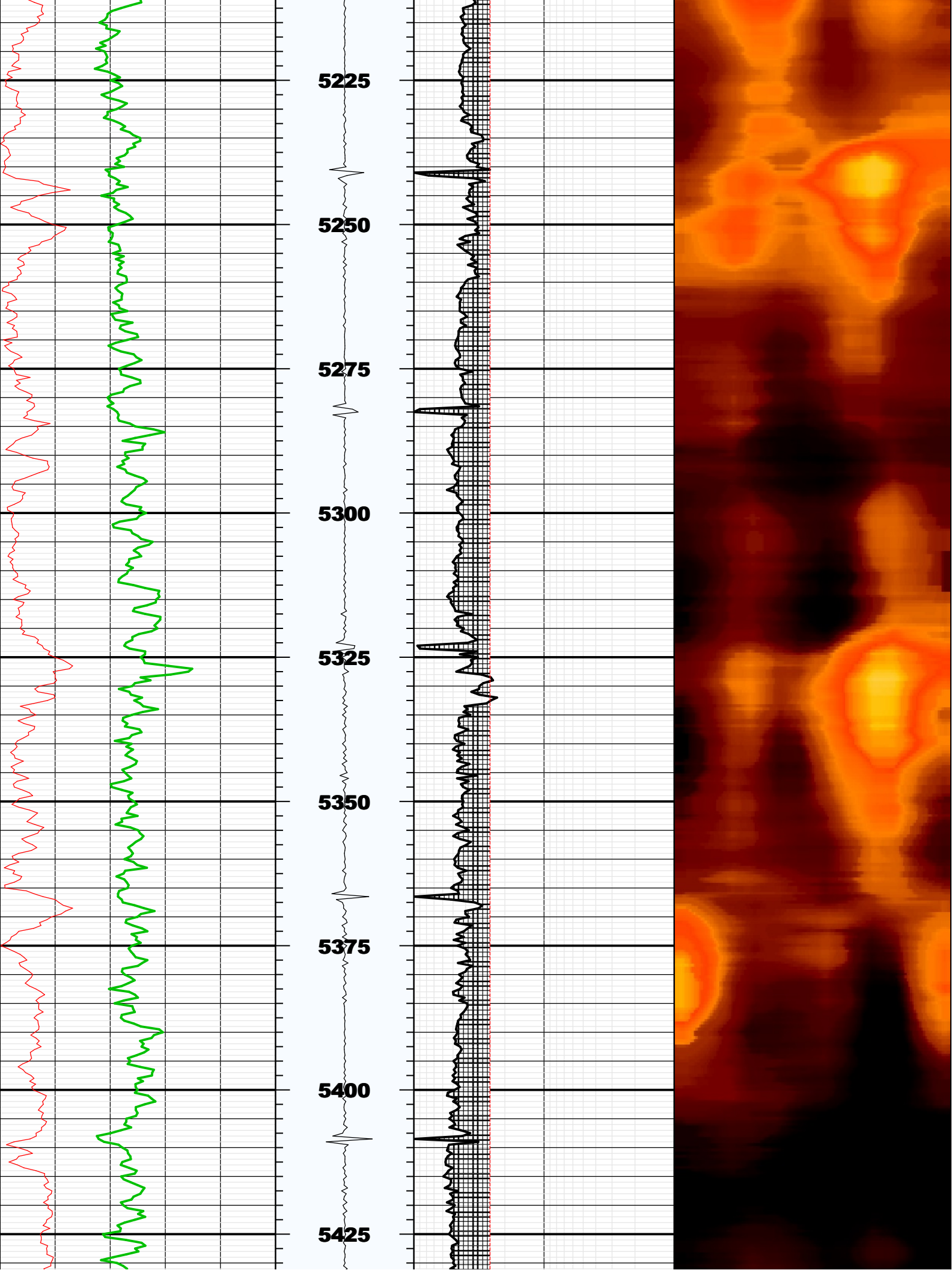


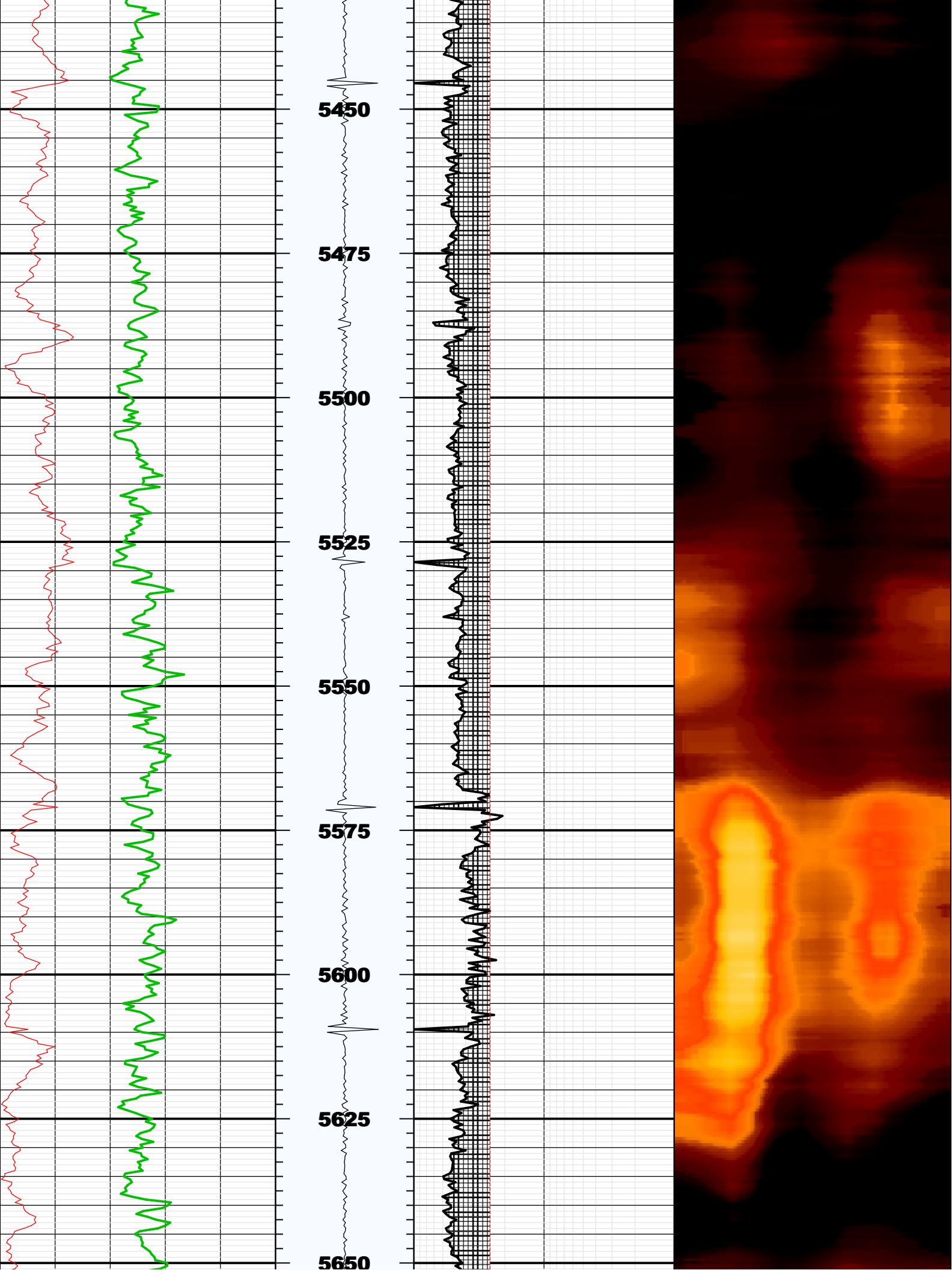


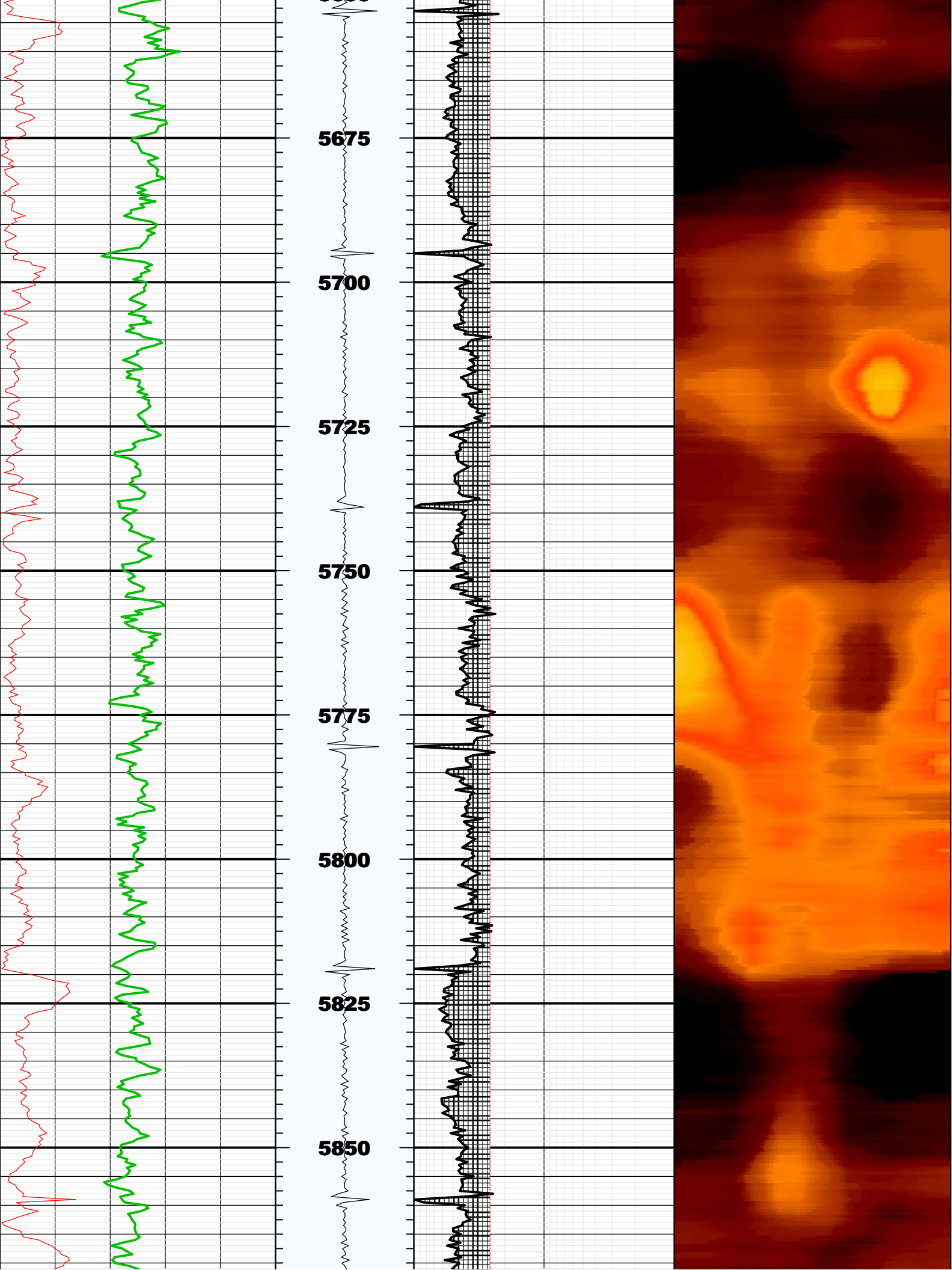


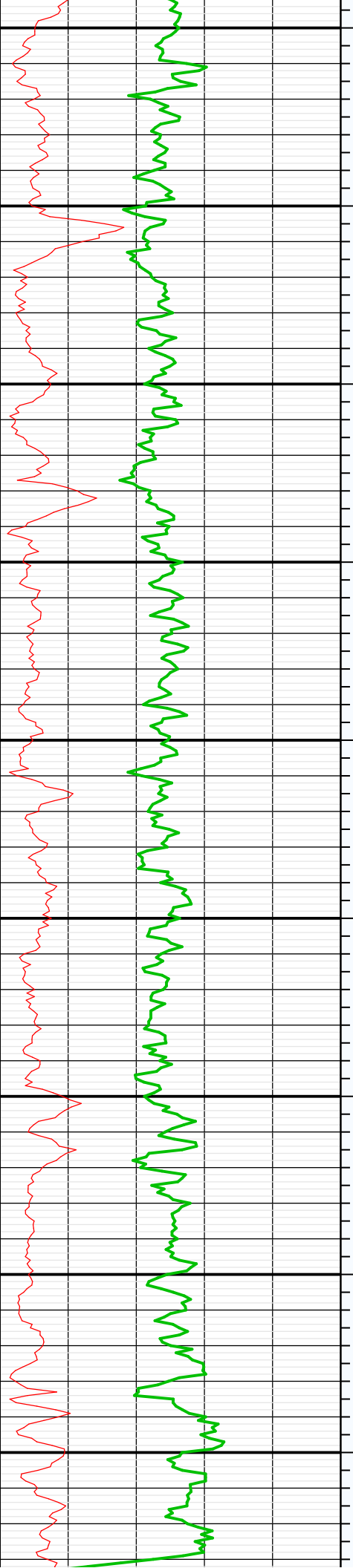












5875

5900

5925

5950

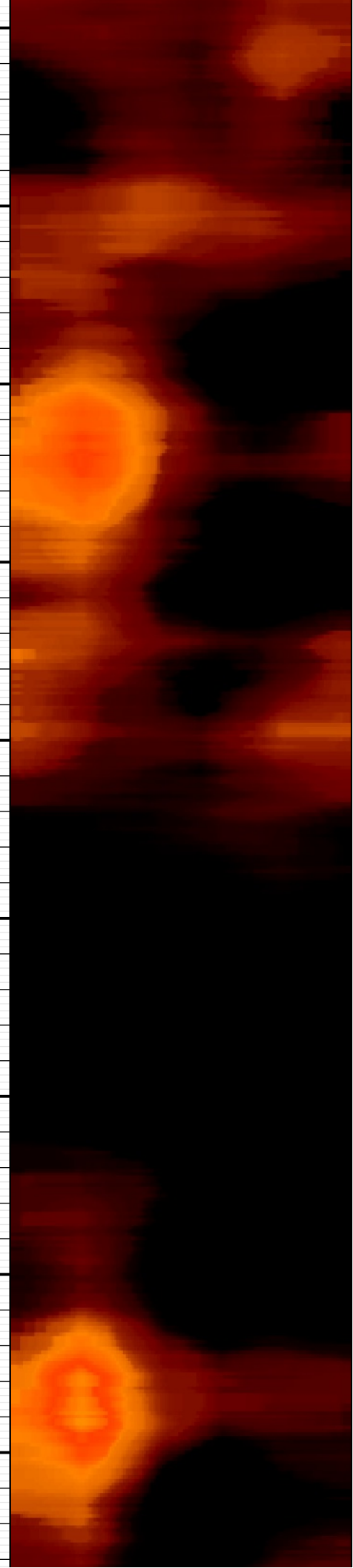
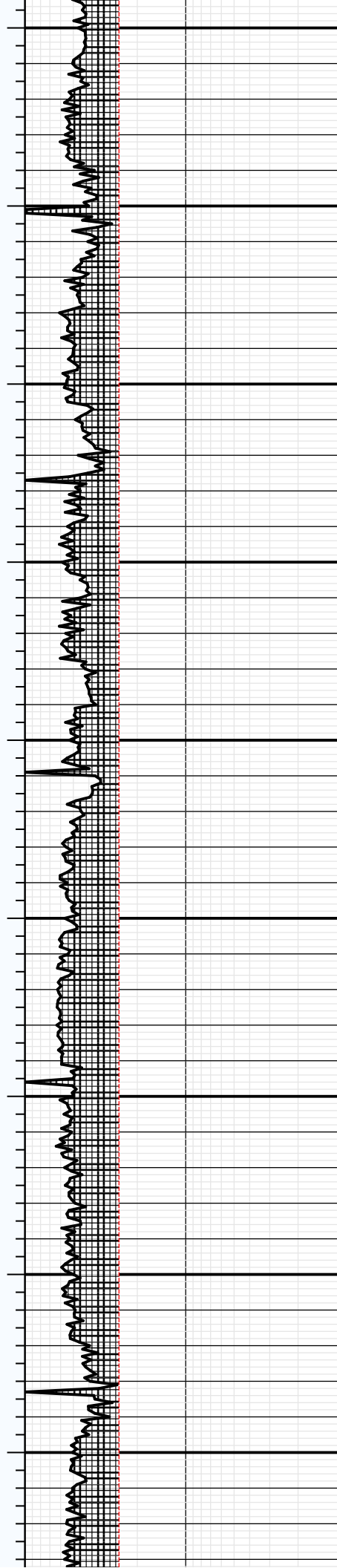
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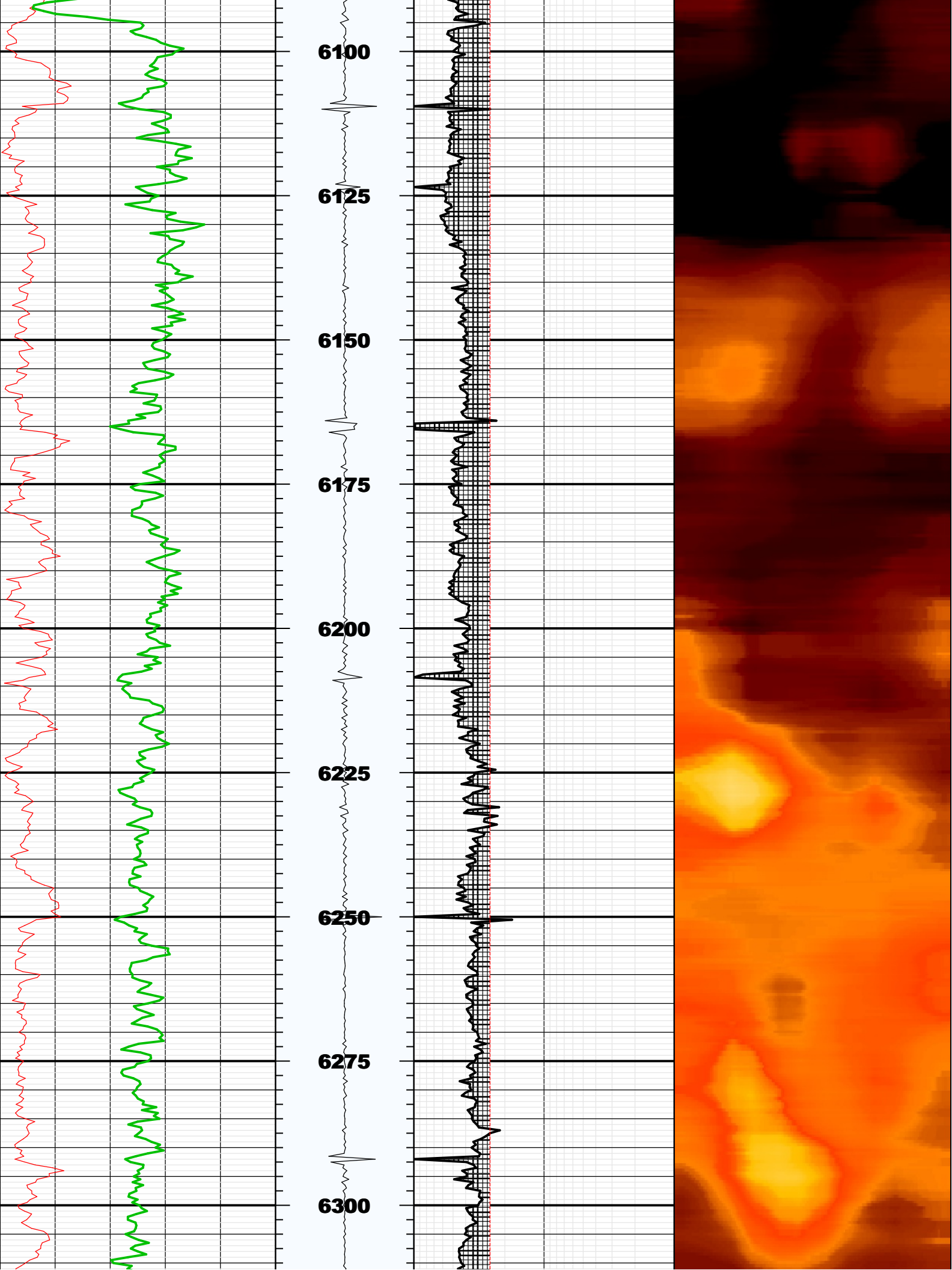
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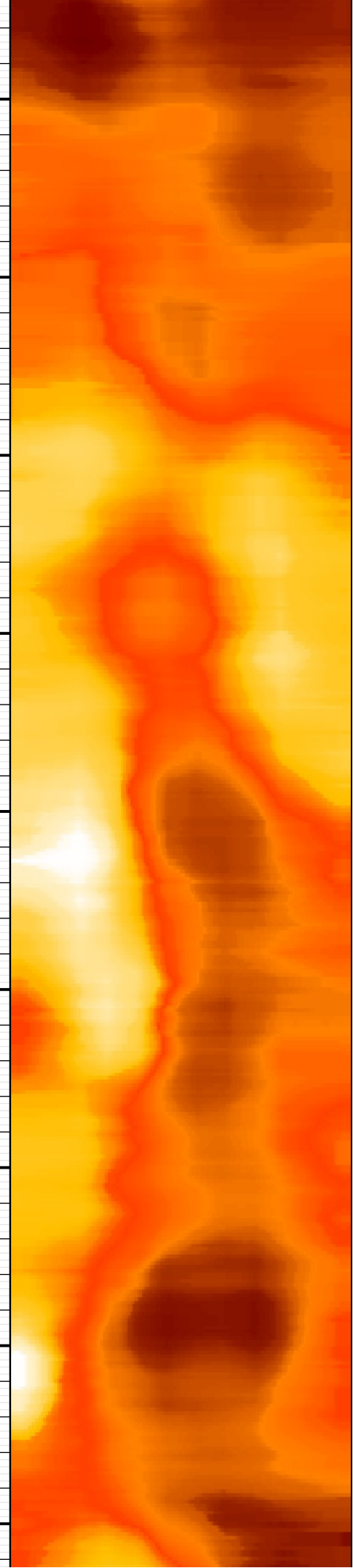
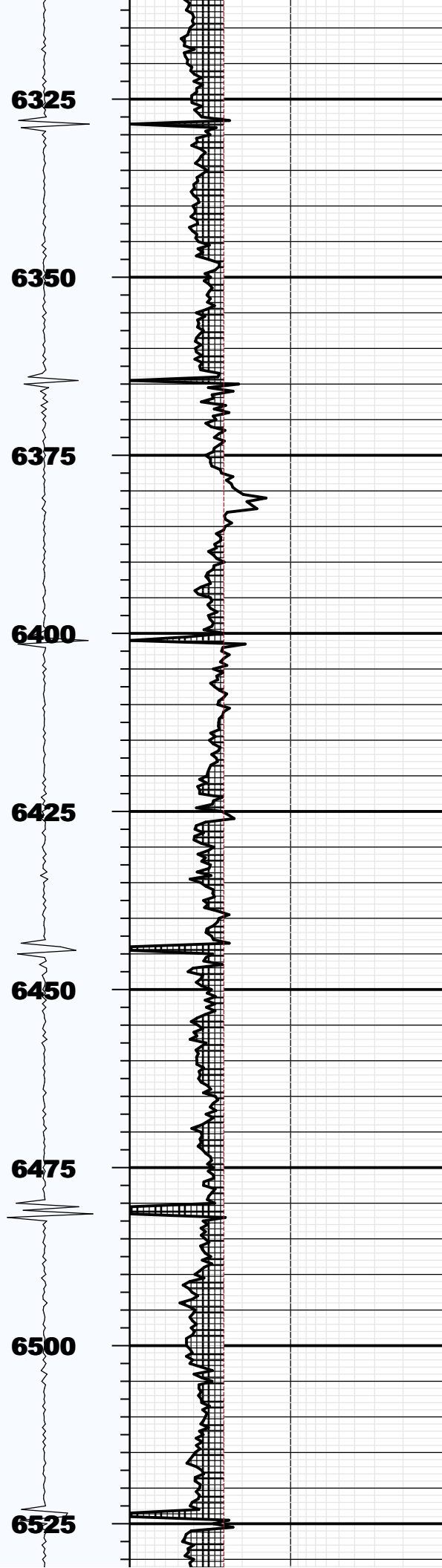
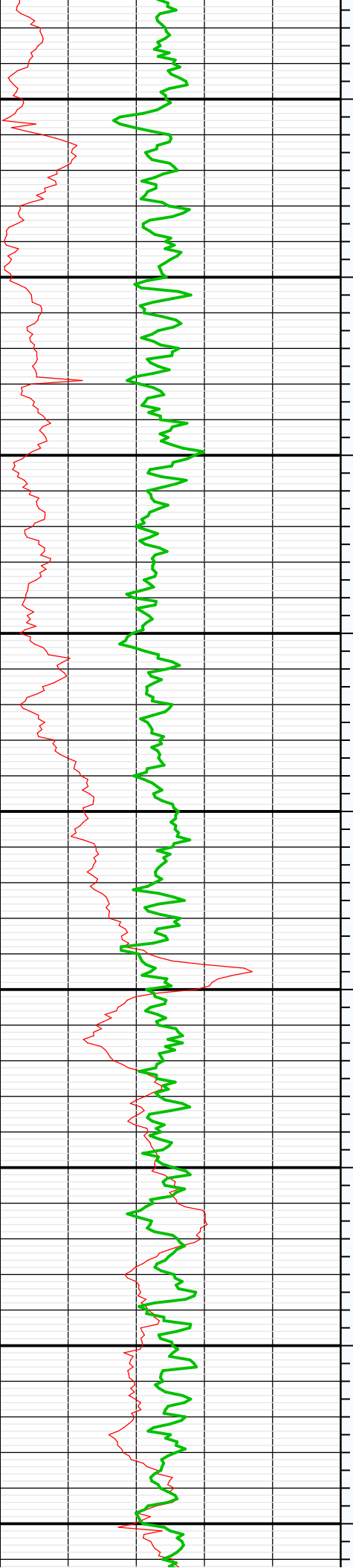
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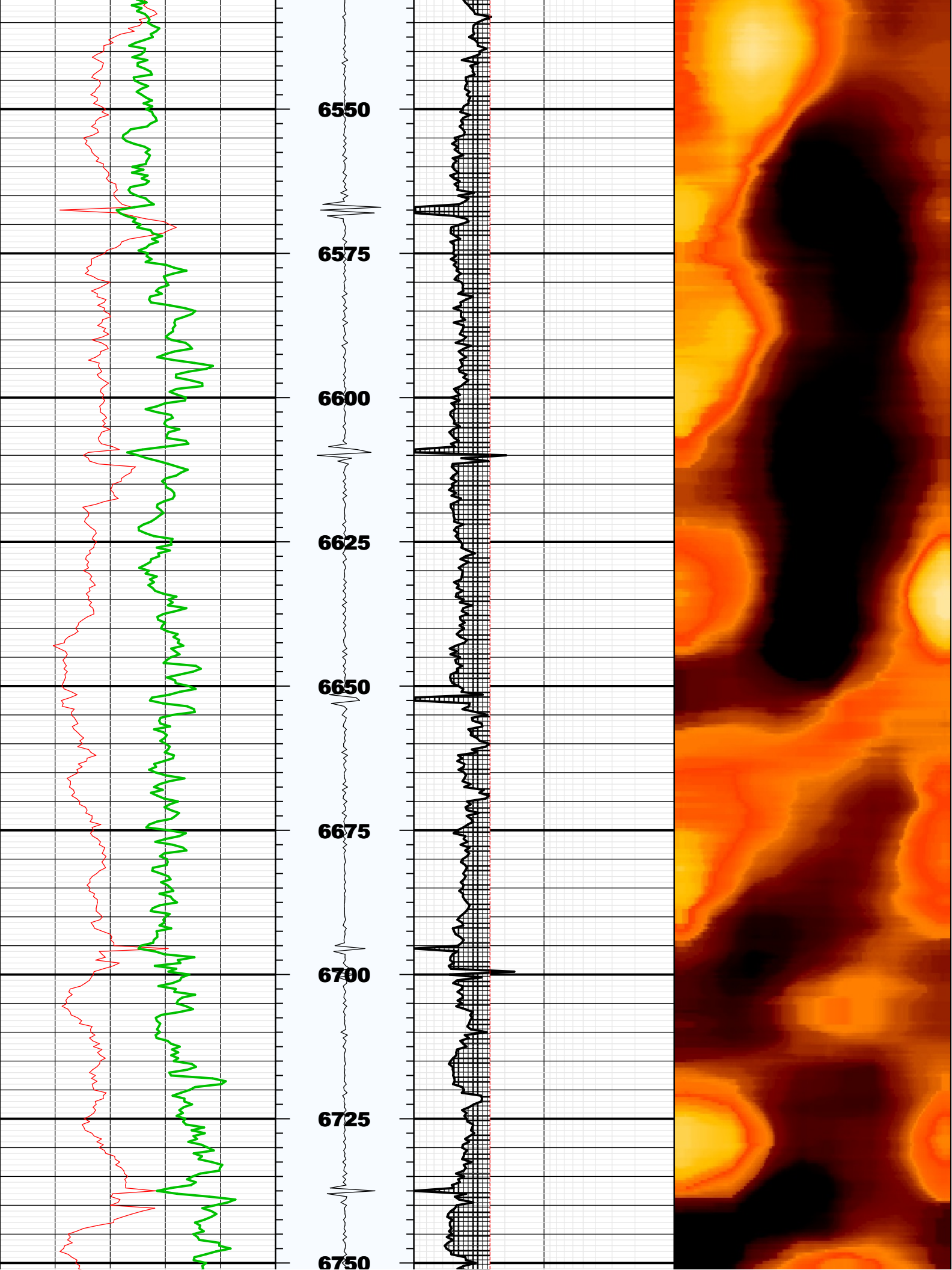
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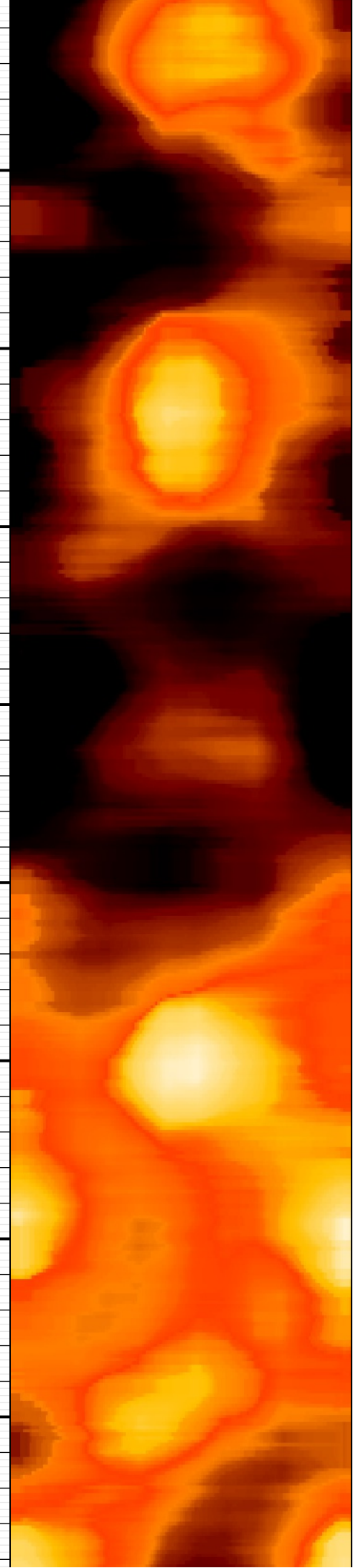
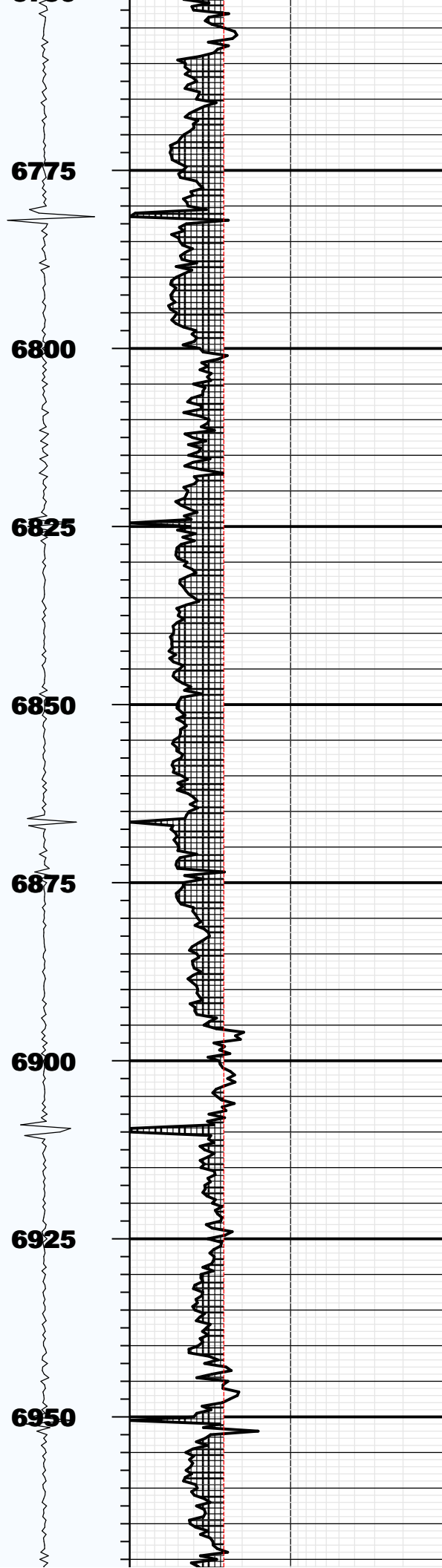
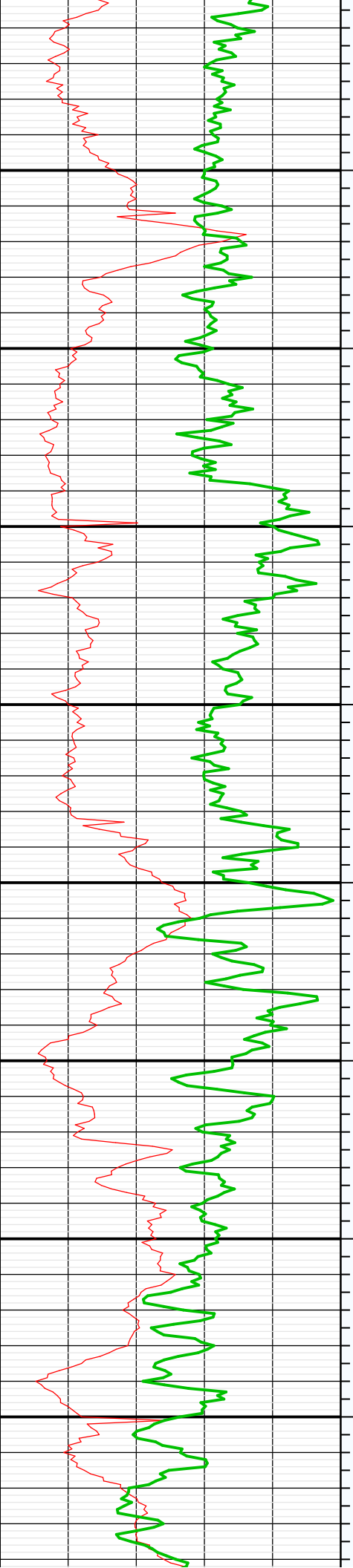
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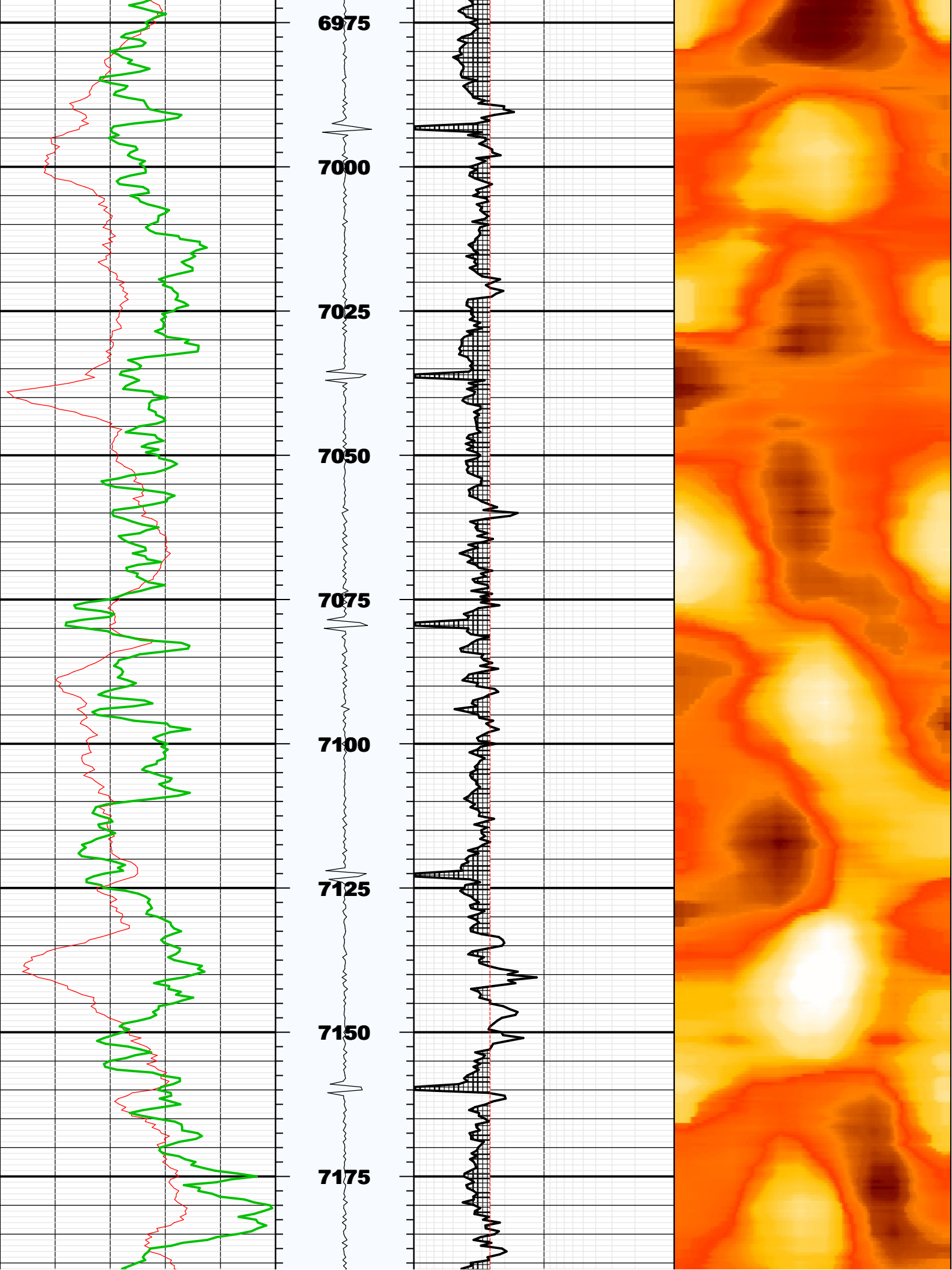


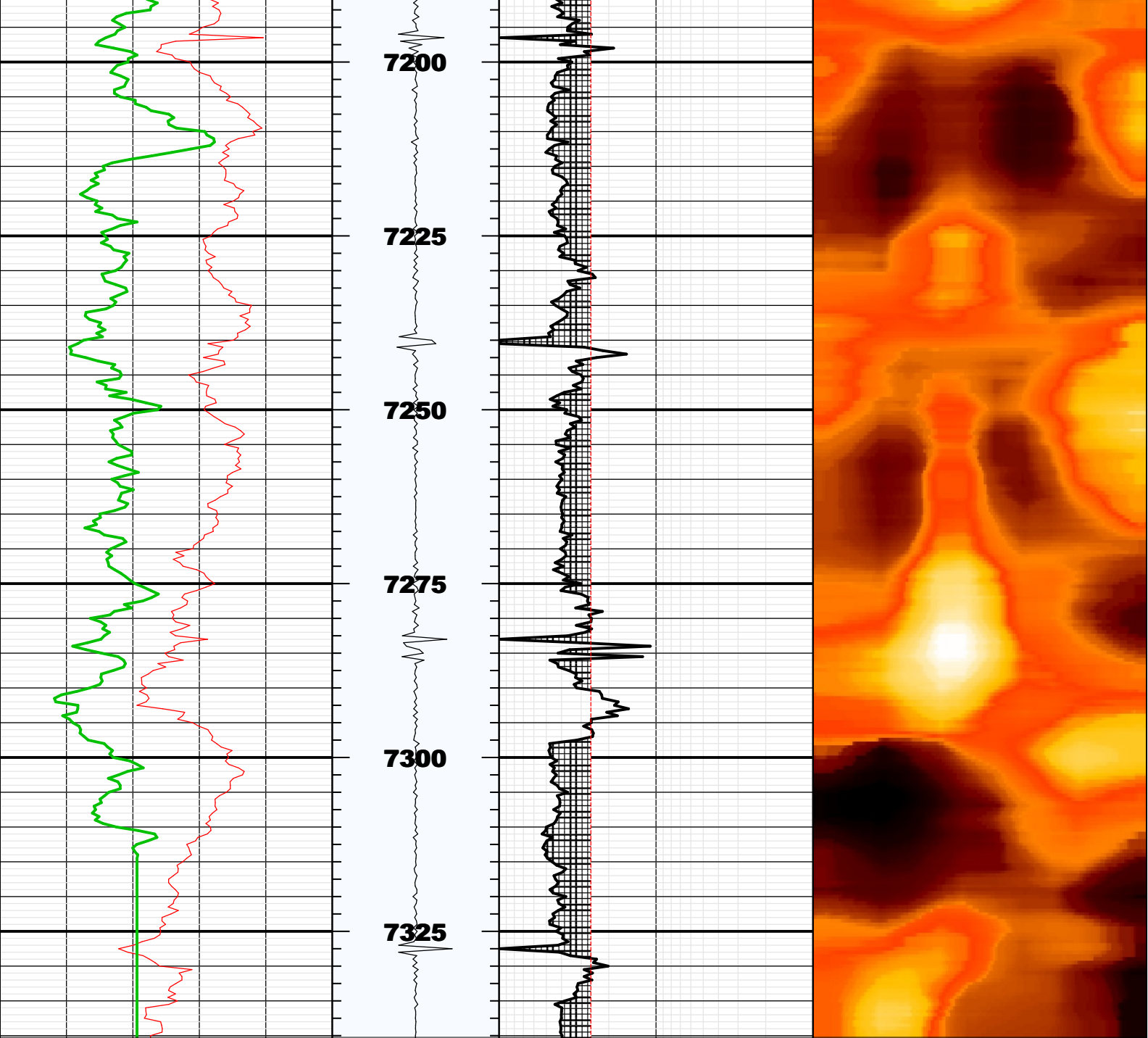








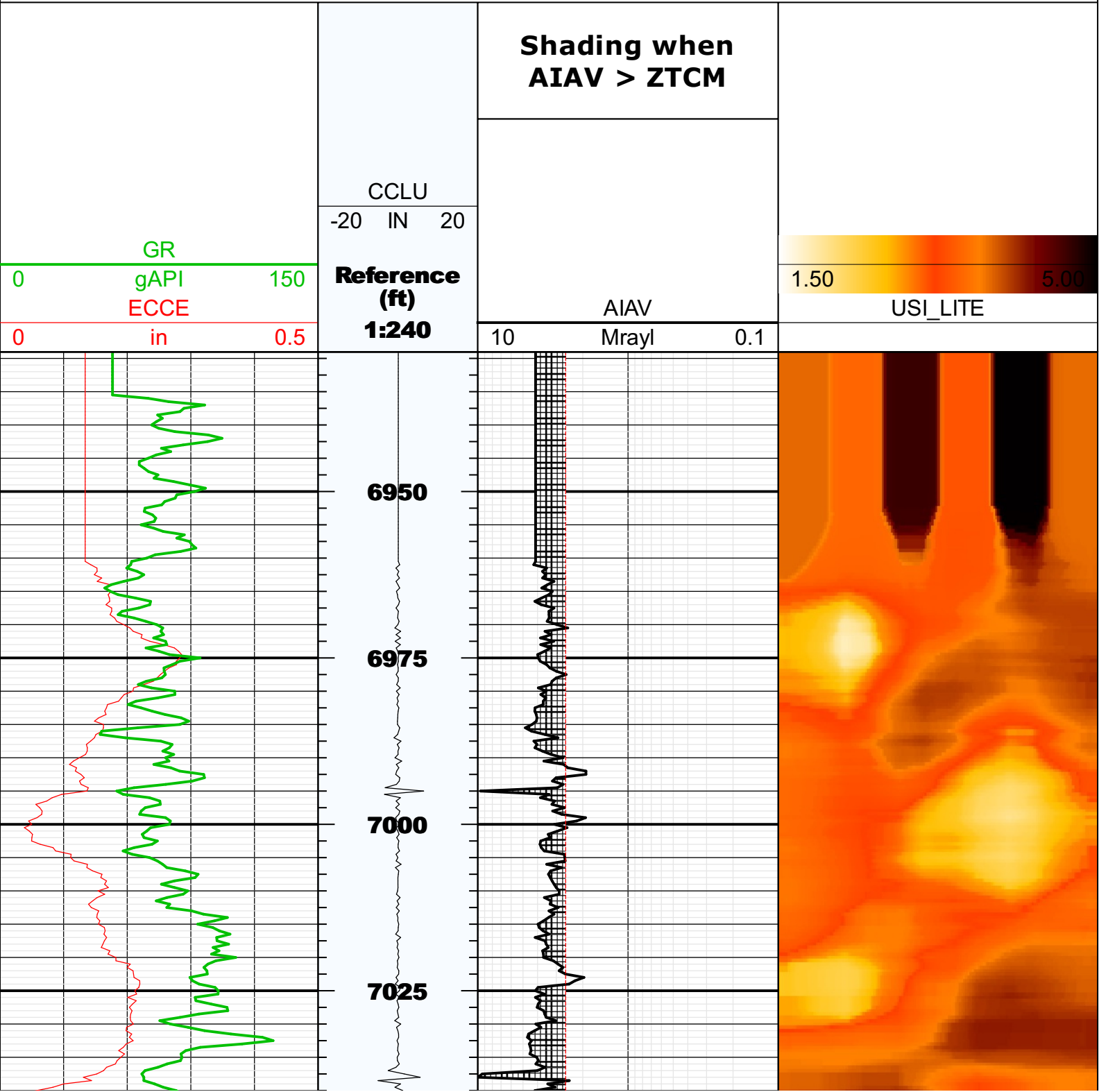


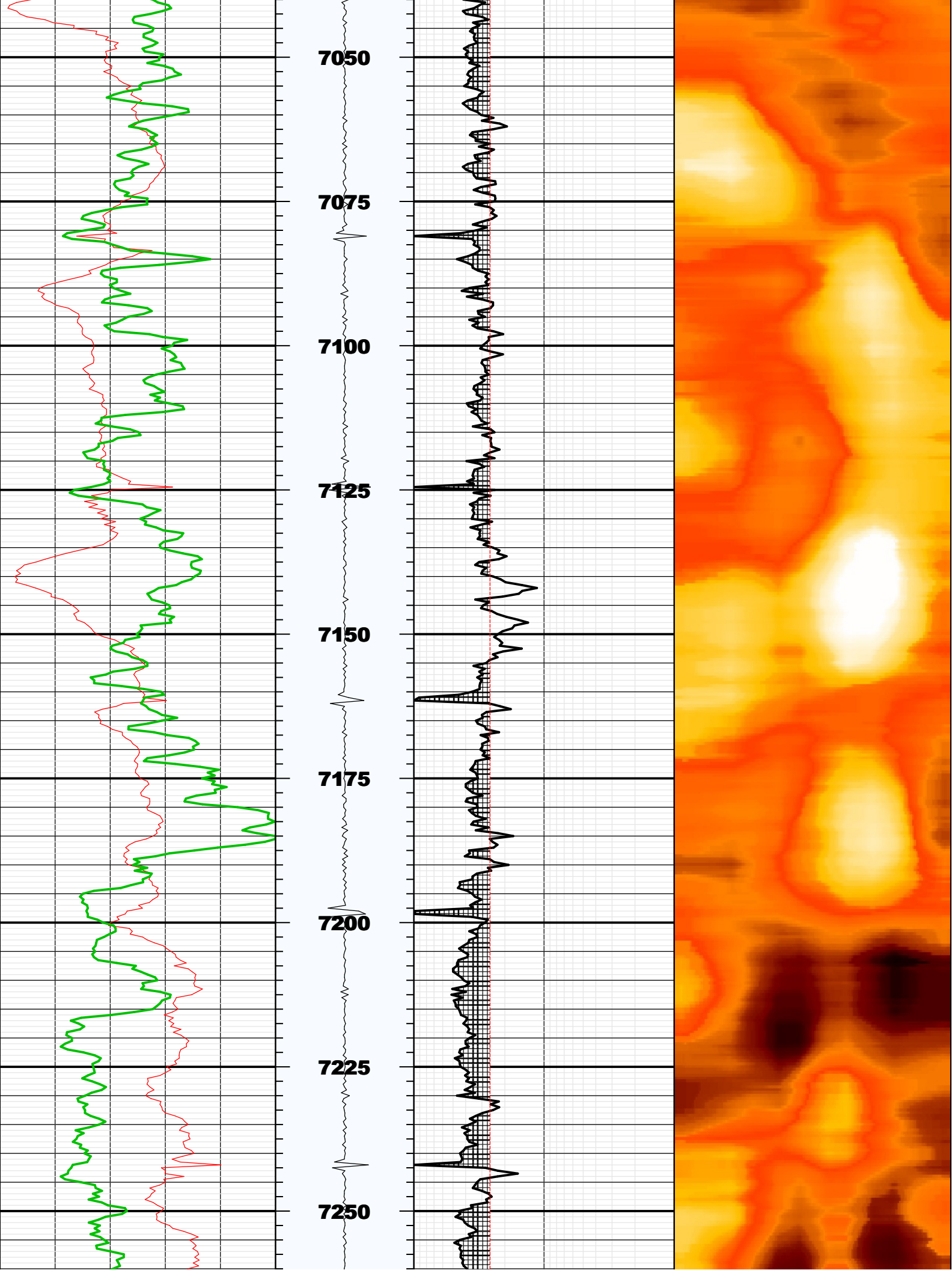


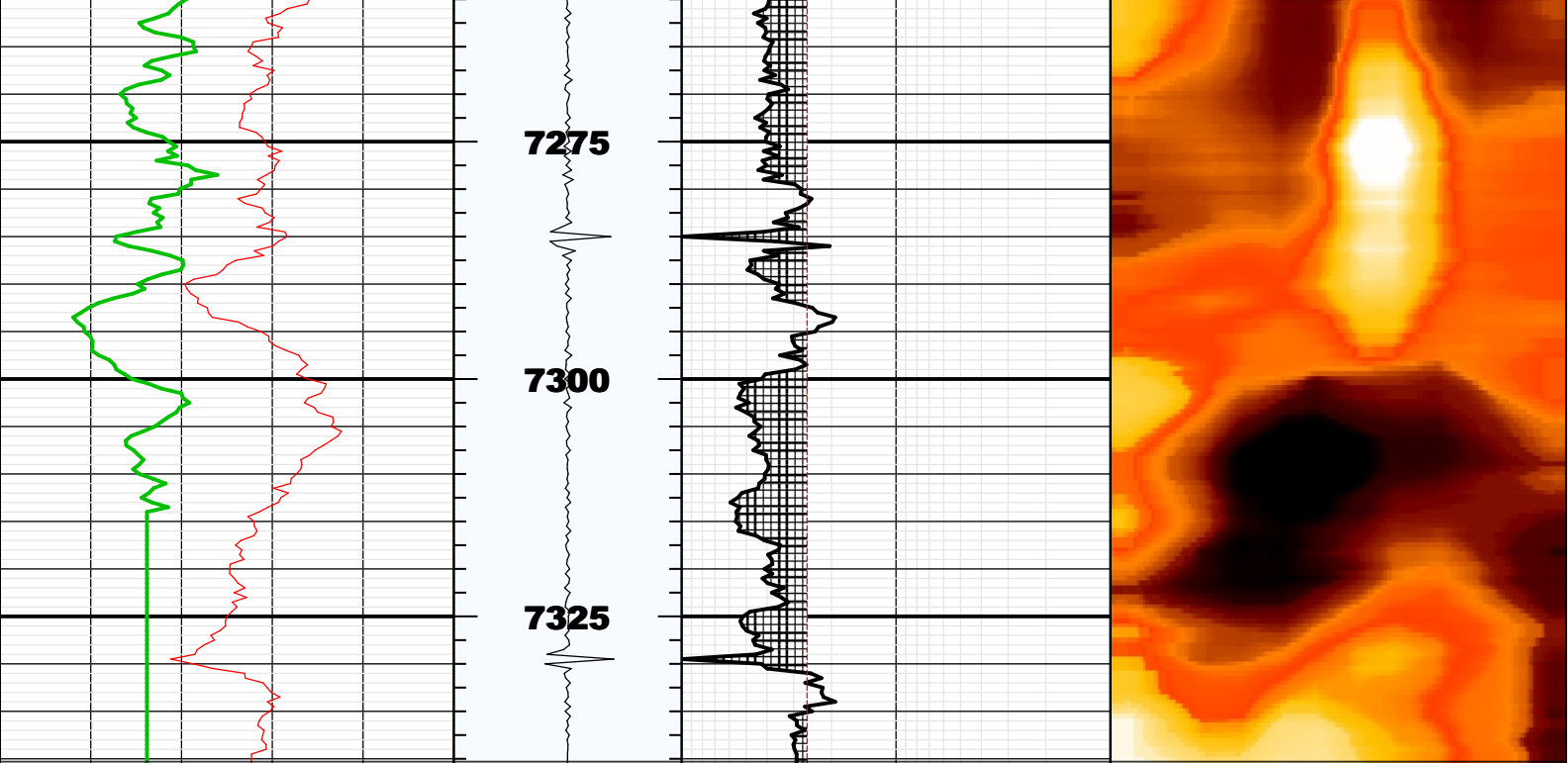
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	190.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	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 [^] 3 Processing Length

Repeat Pass

Company: Noble Energy Inc
Well: Oscar Y 10-79-1HC
Field: Wattenberg







Fluid Properties Used for Main Pass

