

Company: Noble Energy Inc

Well: Sandau K25-66-1HN
Field: Hambert
County: Weld

State: Colorado

County: Weld		USI-LITE	
Field: Hambert			
Location: NWSW Sec. 25 T4N R66W			
Well: Sandau K25-66-1HN			
Company: Noble Energy Inc			
LOCATION			
Permanent Datum:		Elev: K.B. 4796.0 F	
Log Measured From:		G.L. 4780.0 F	
Drilling Measured From:		D.F. 4795.0 F	
GL			
KB			
KB			
API Serial No.			
05-123-37764-0000			
Section 25			
Township 4N			
Range 66W			
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Fluid Level			
Salinity			
Density			
Fluid Level			
BIT/CASING/TUBING STRING			
Bit Size			
From			
To			
Casing Size			
Weight			
Grade			
From			
To			
Max Recorded Temp			
Logger on bottom (date)			
Location			
Recorded By			
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: 13499.99902

DISCLAIMER

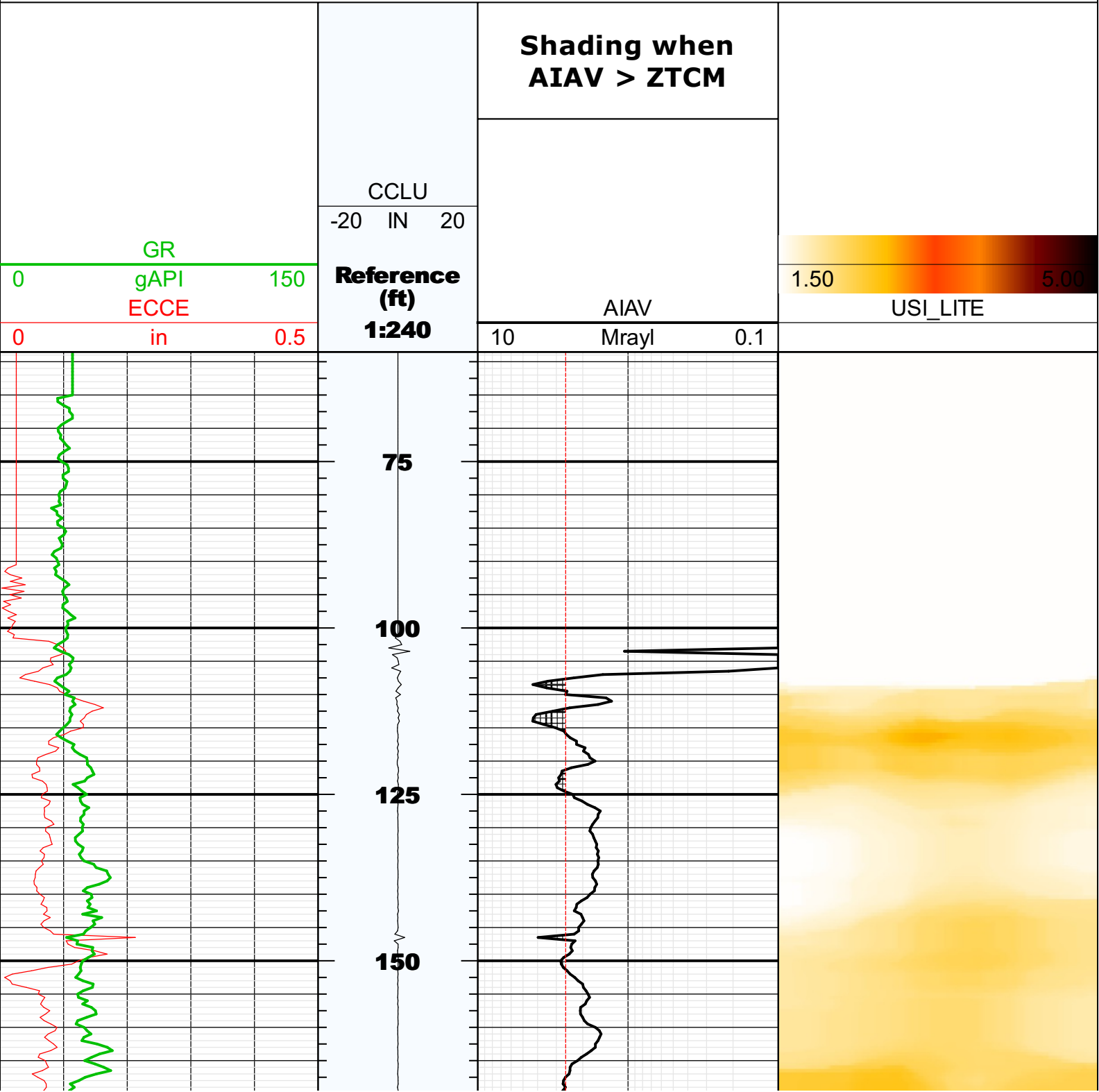
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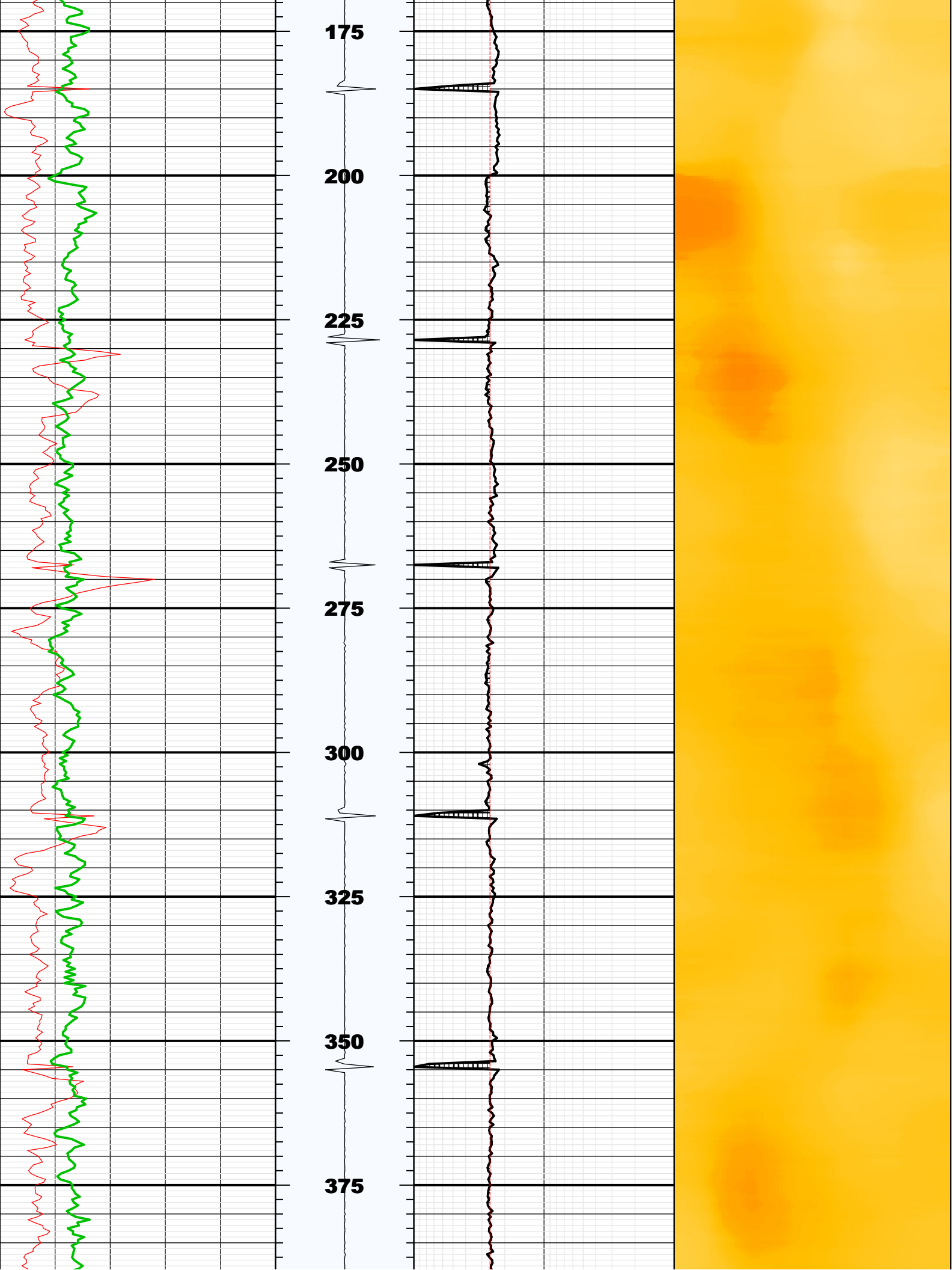
This is the first run in hole
Toolstring run as per tool sketch
0 PSI on repeat pass
0 PSI on main pass. Tried pressuring up to 3200. At 2500 PSI something downhole came free and could no longer hold pressure
12.5ppg lead cement
13.8ppg tail cement
Sub wouldn't spin below 6990' logged out from there

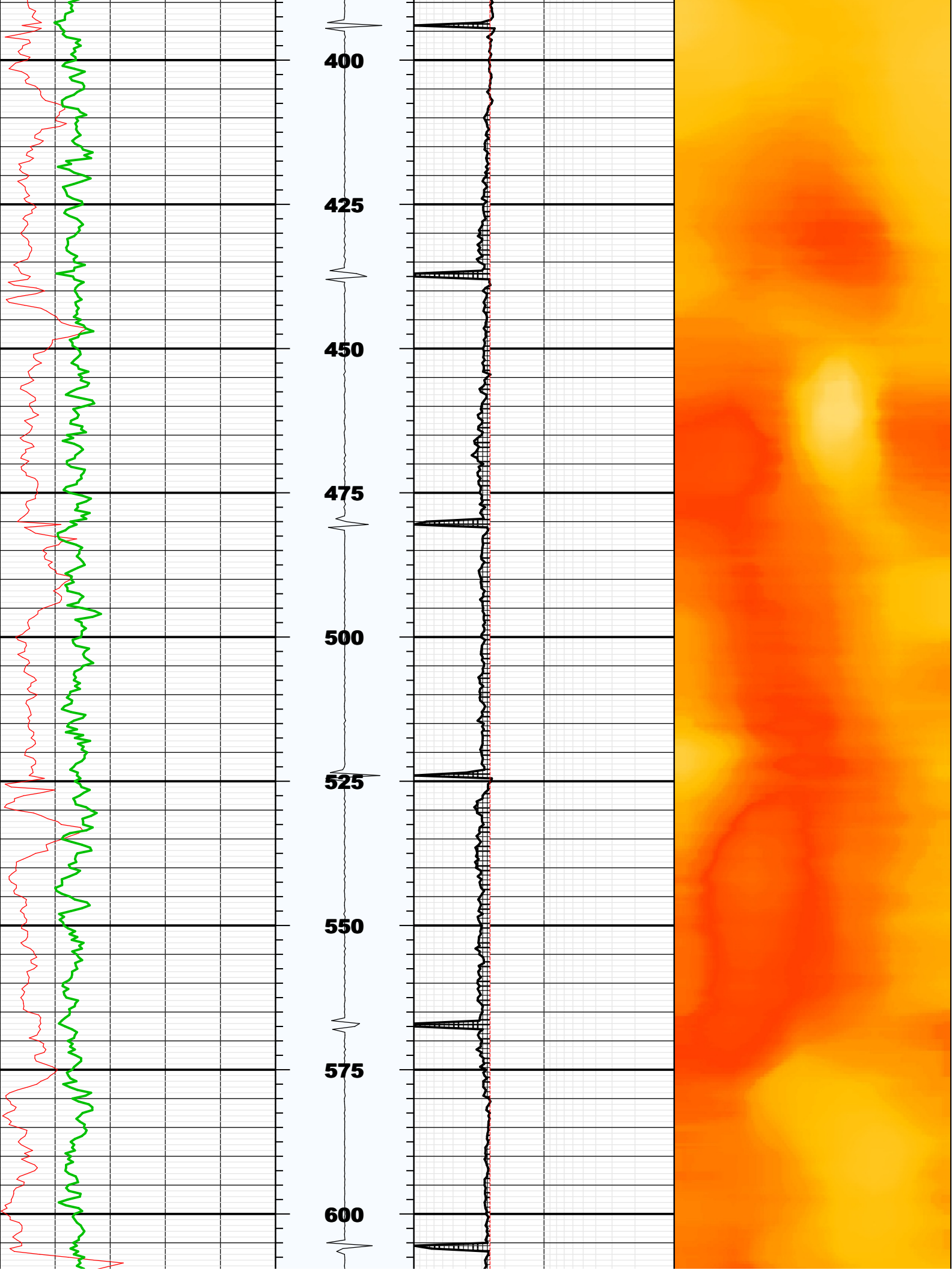
Rig Crane
Crew Jay Musgrave Troy Ocanas Aleksei B

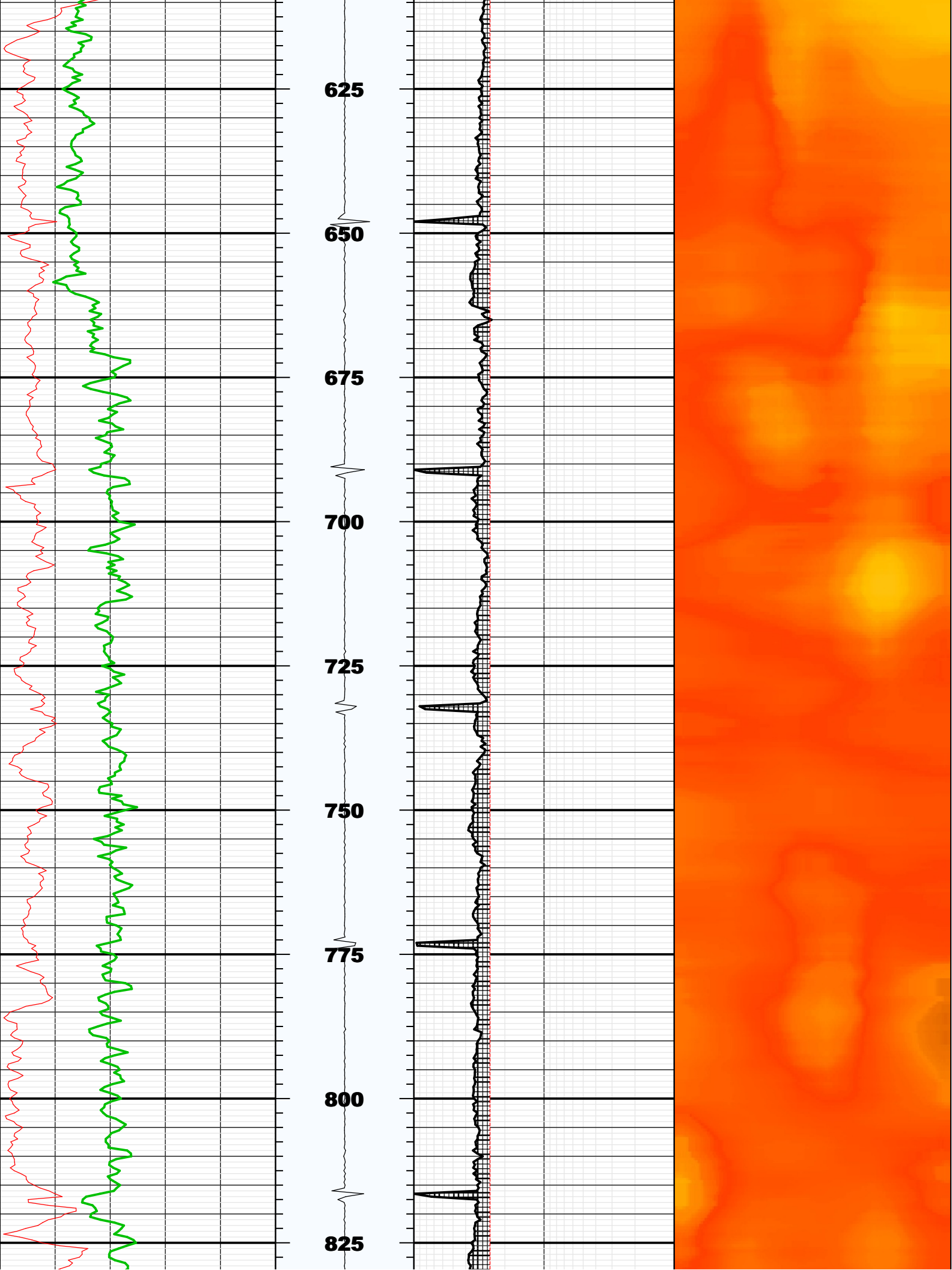
Main Pass

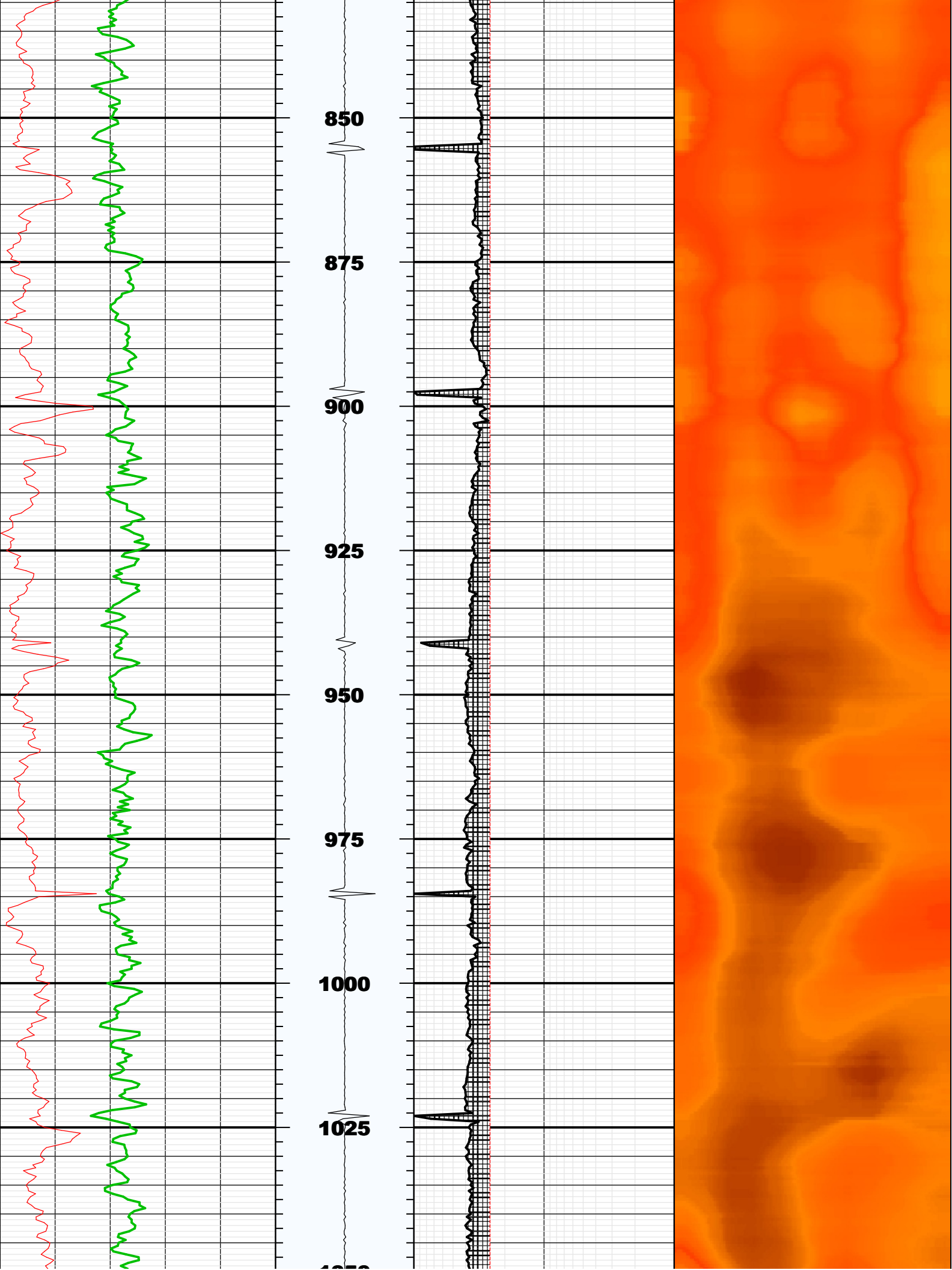
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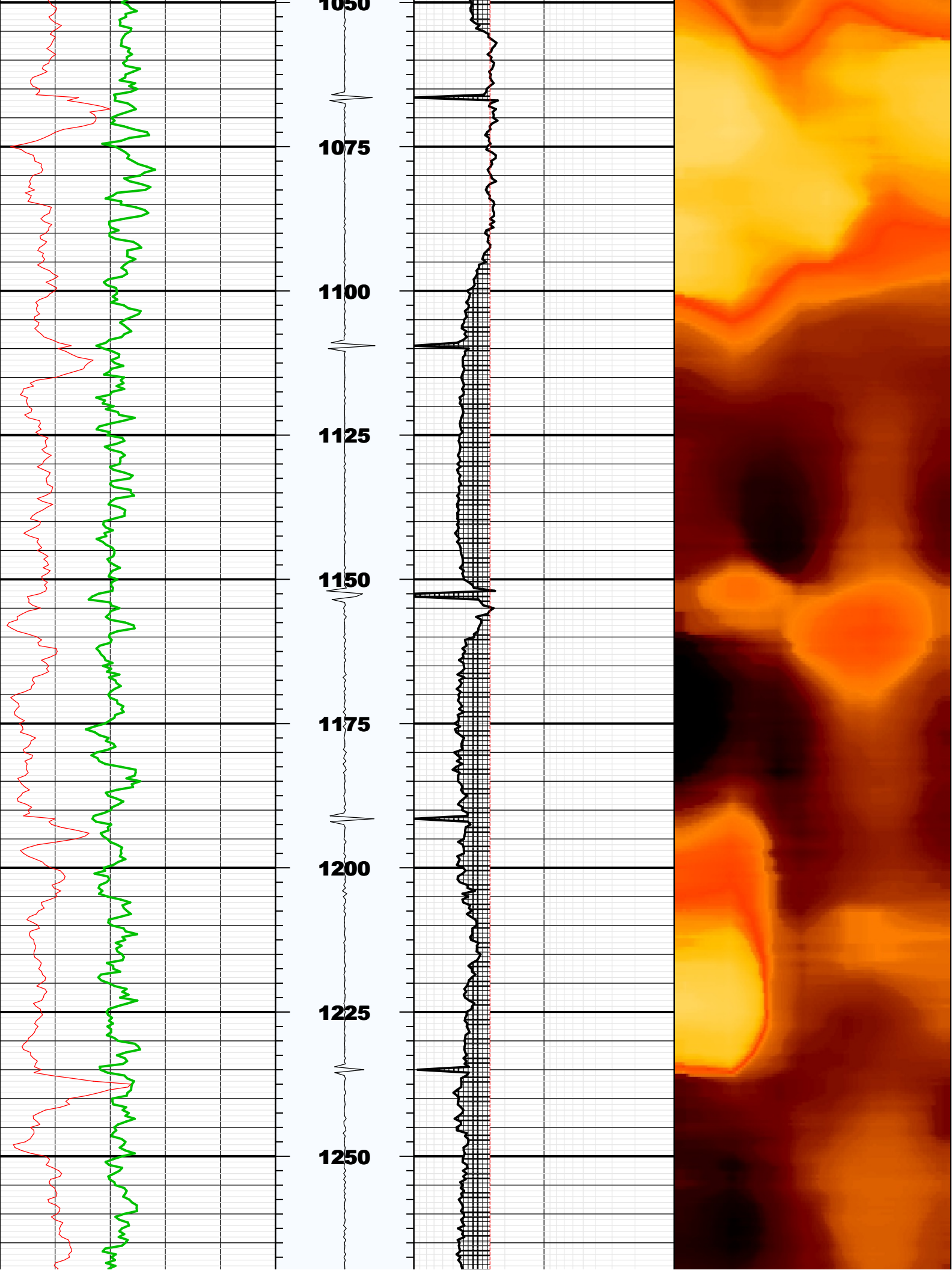


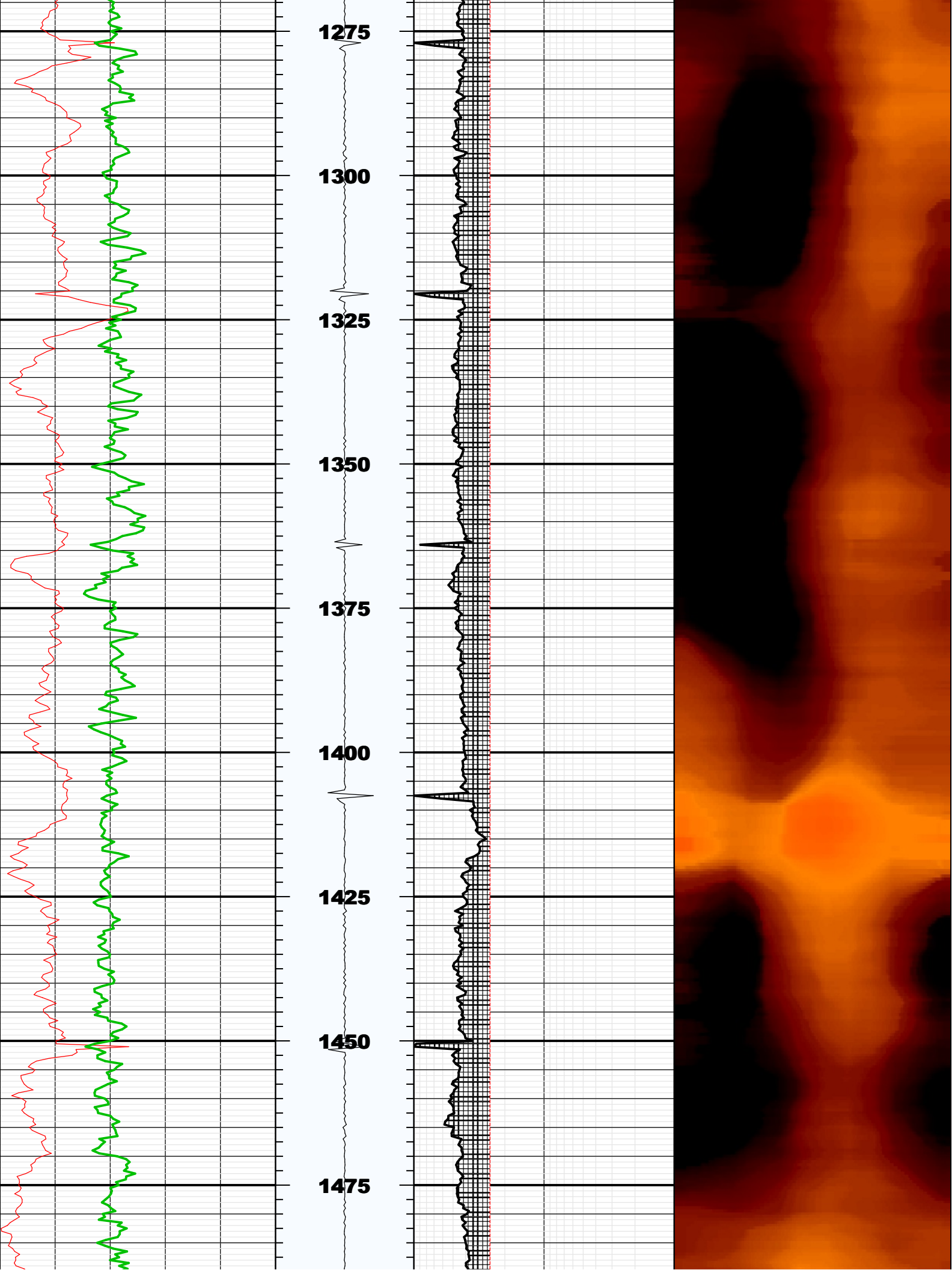


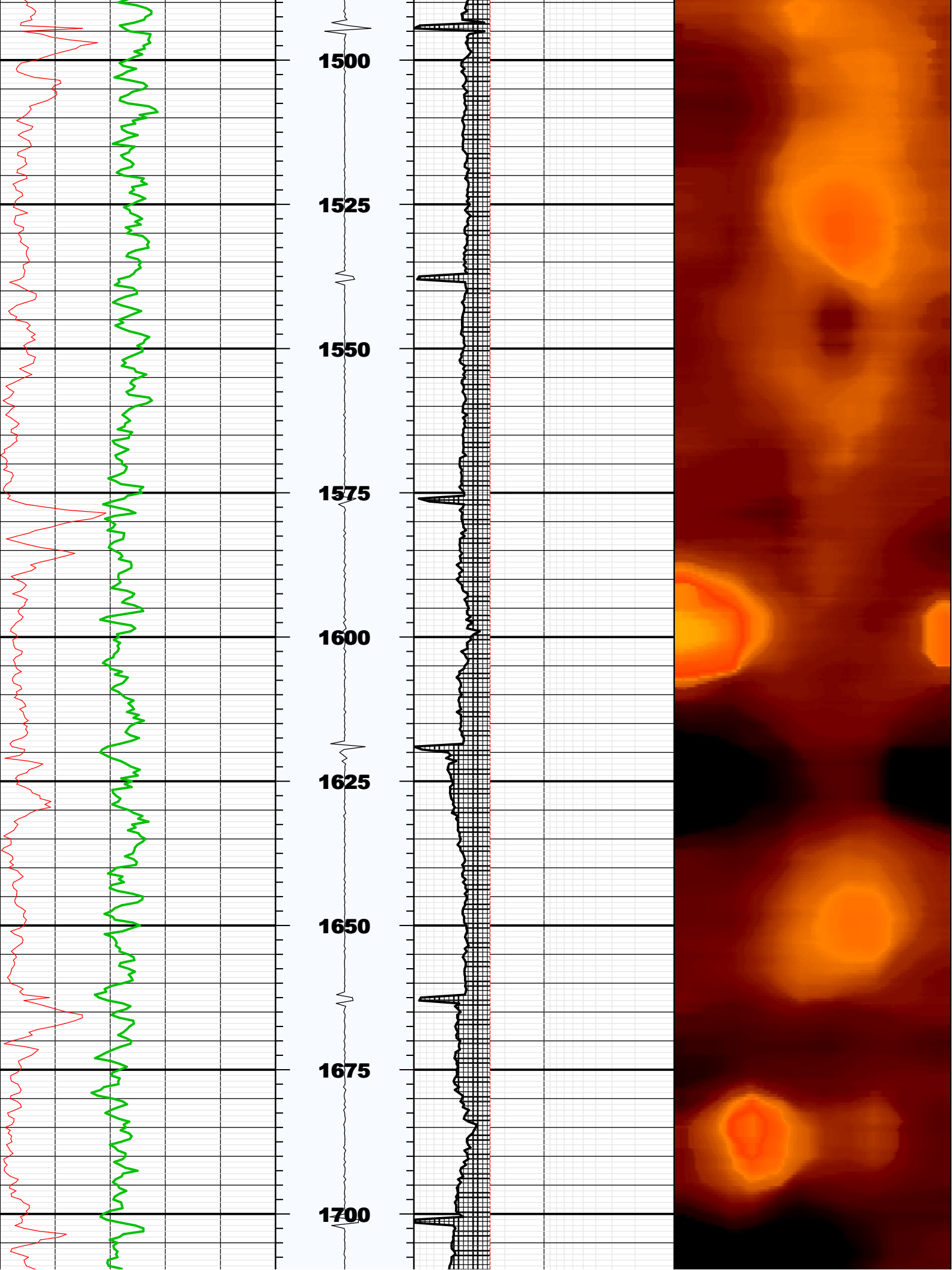


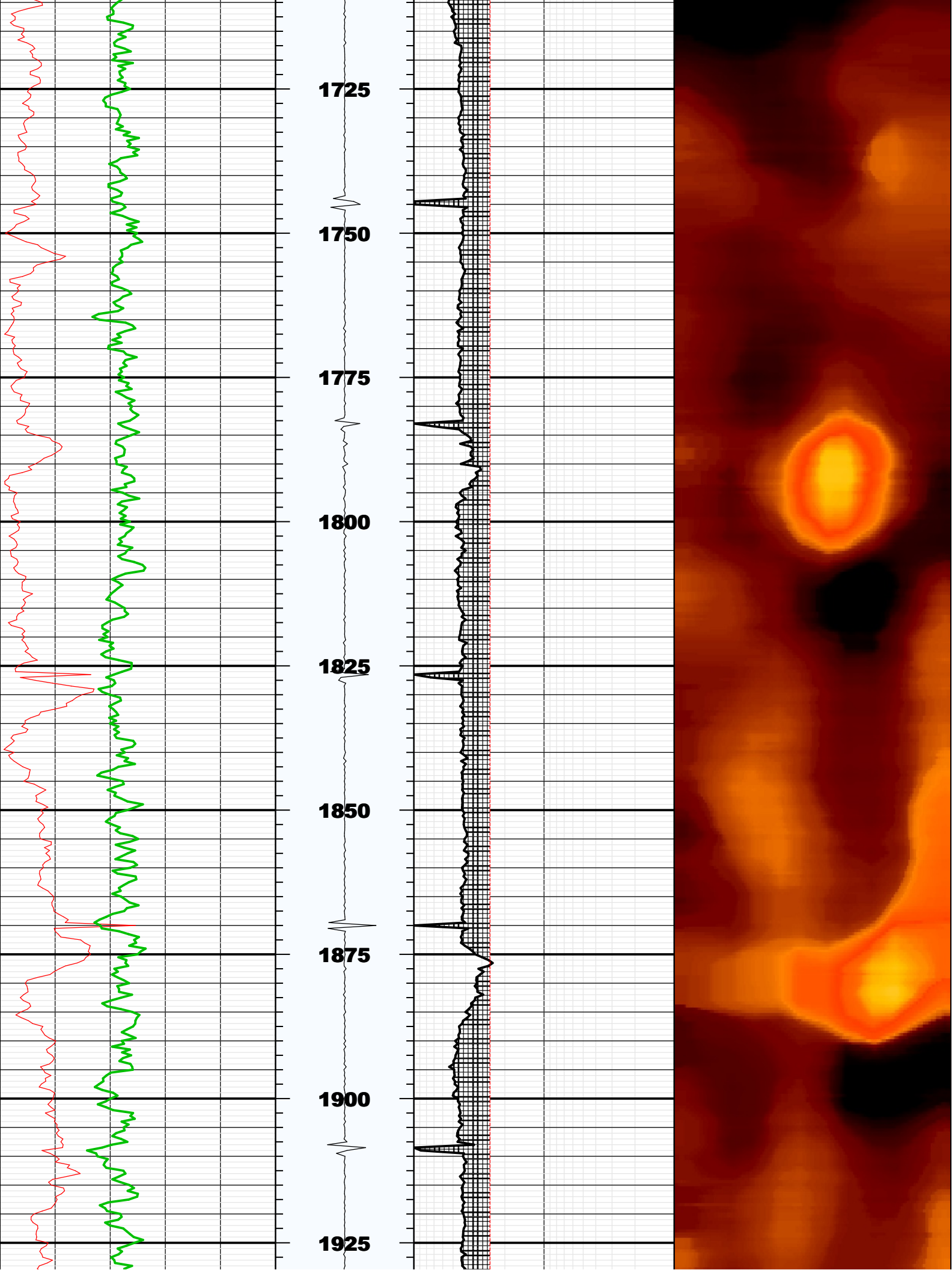


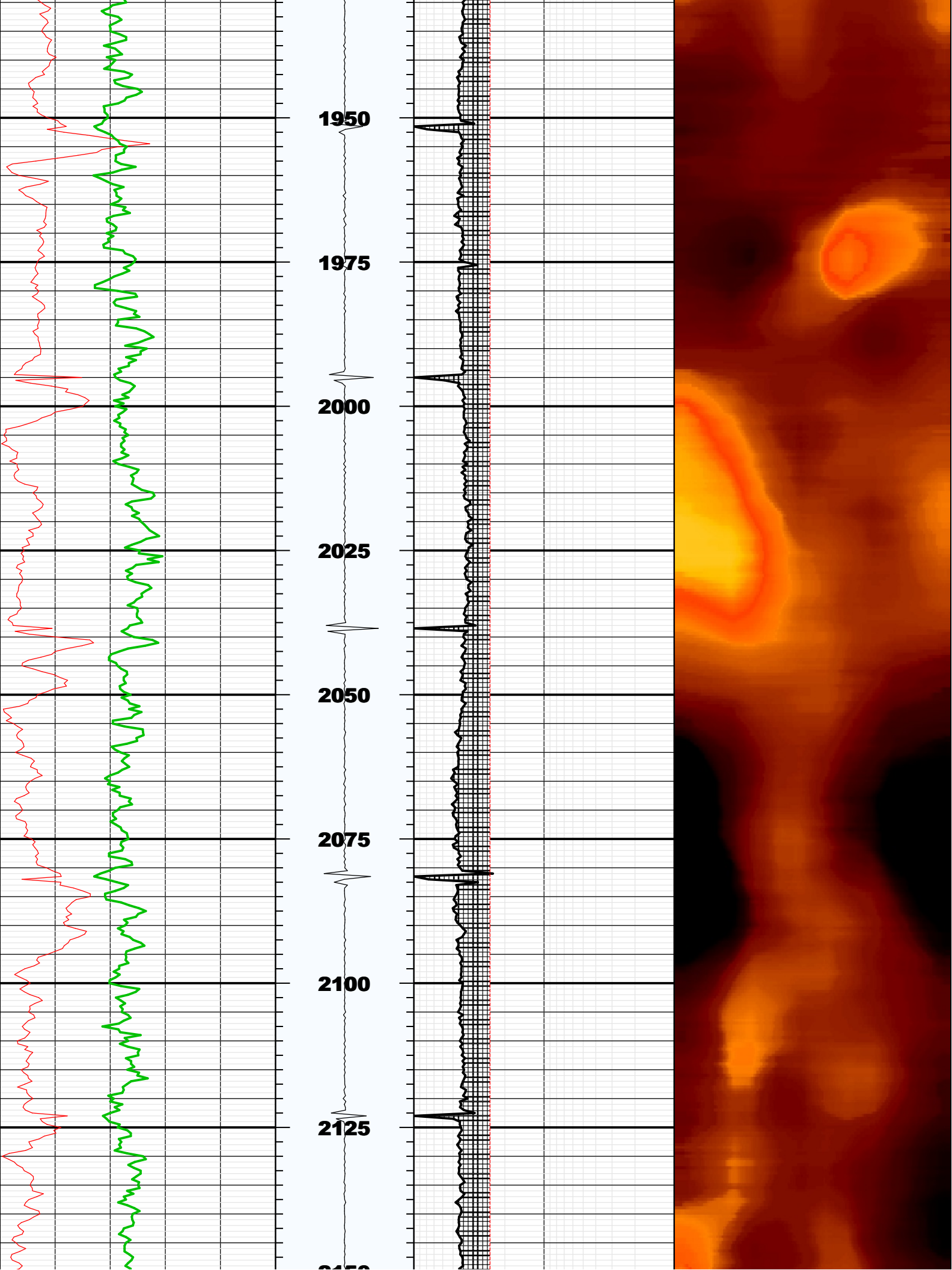


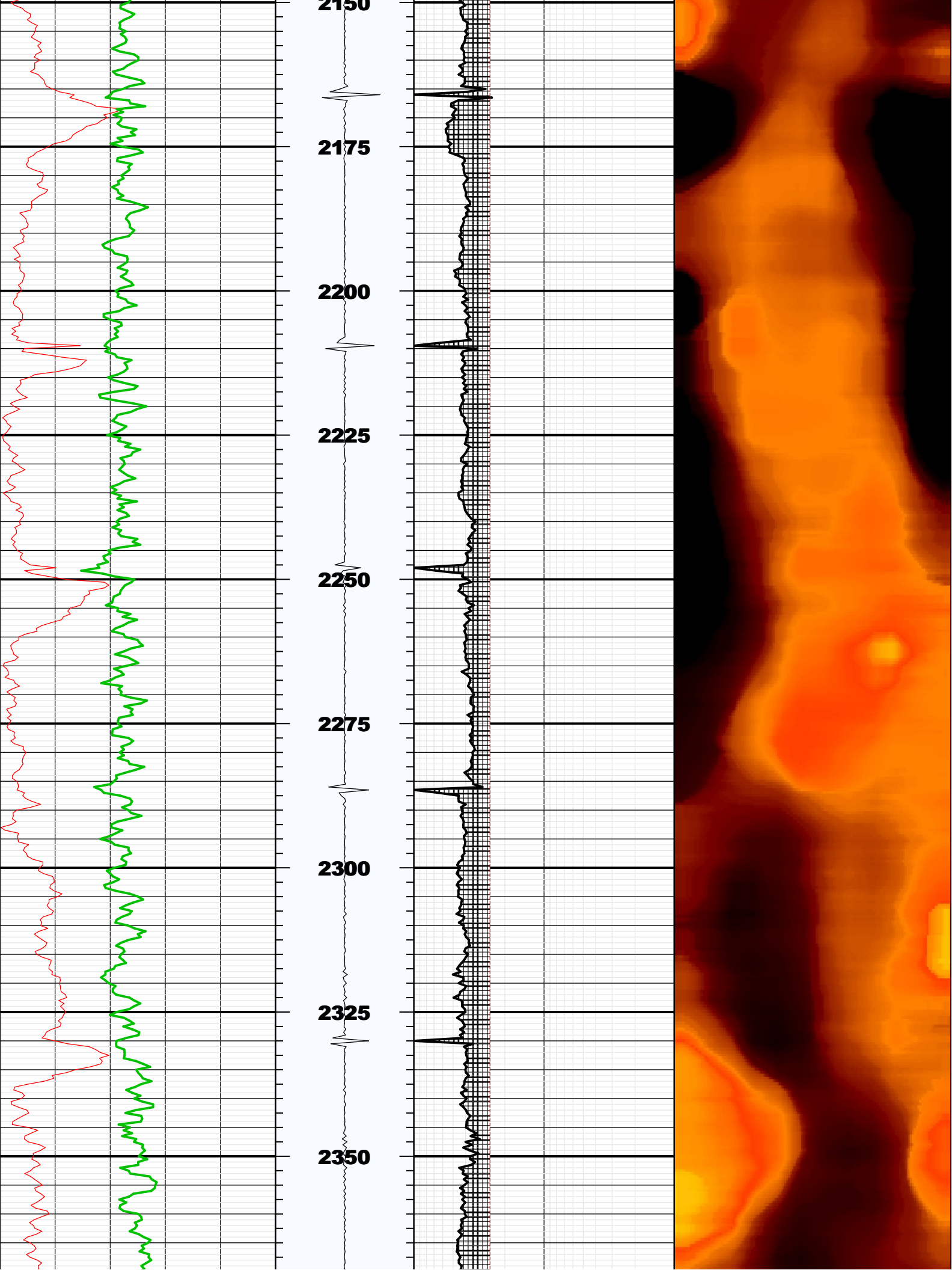


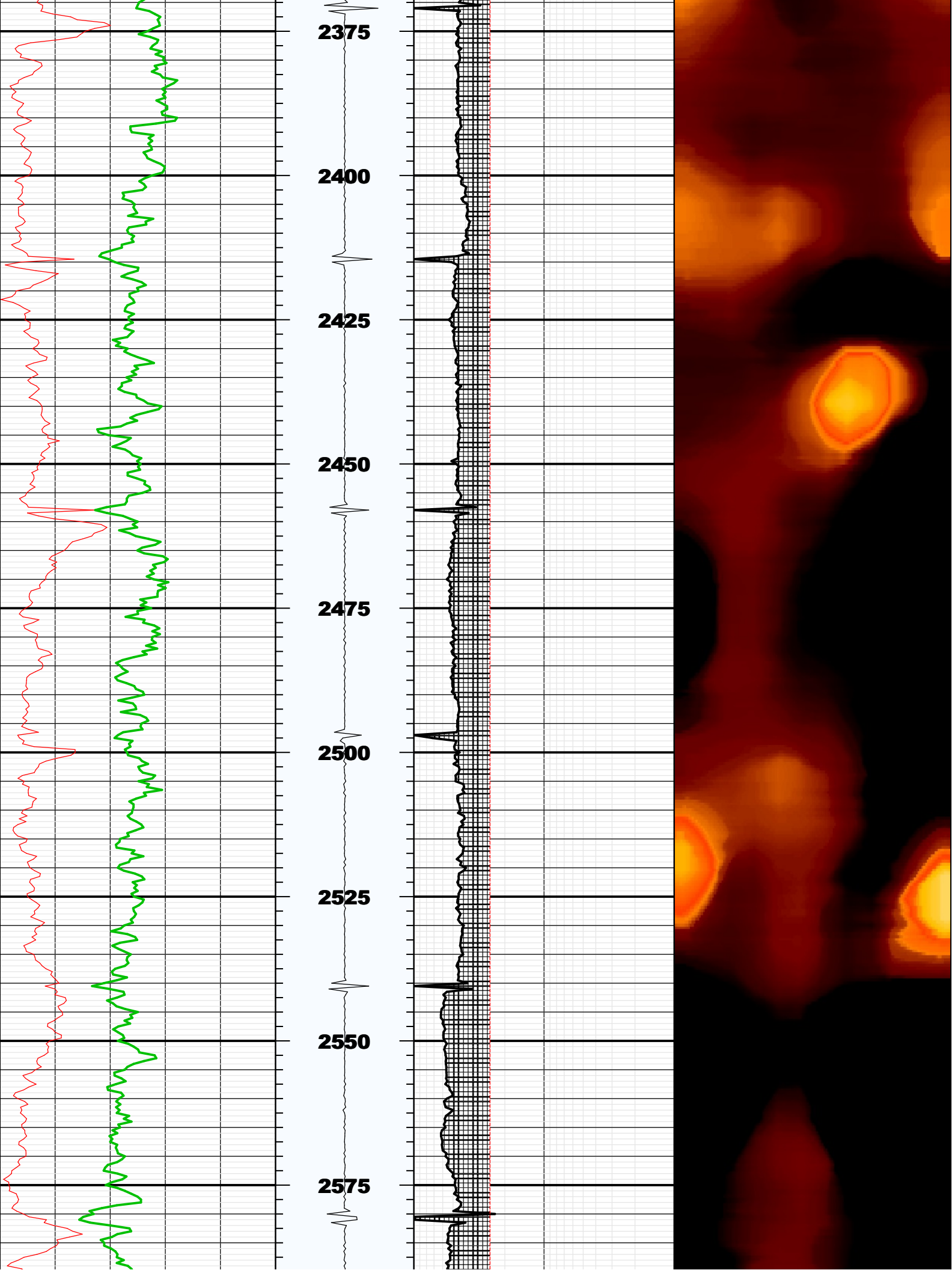


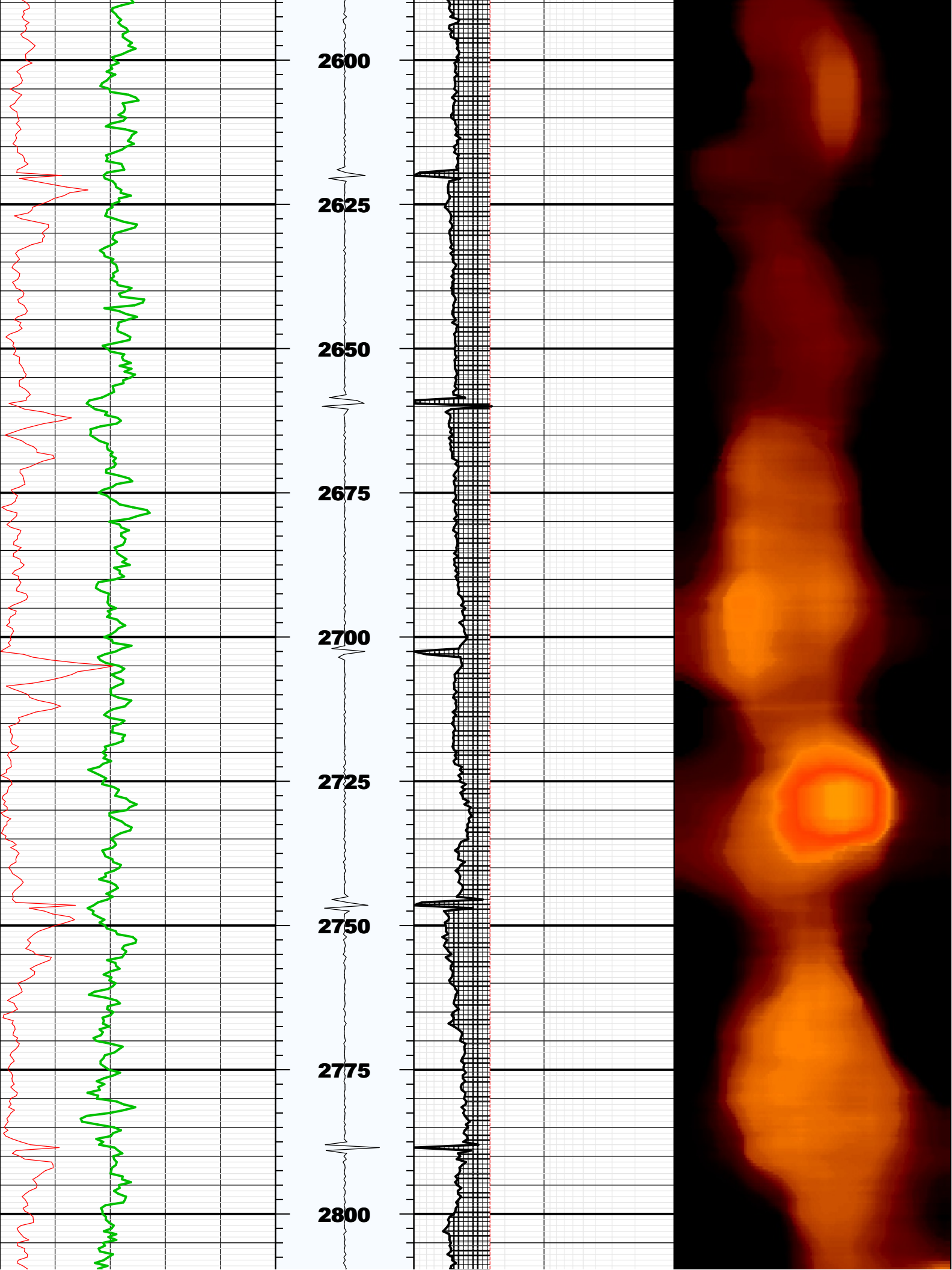


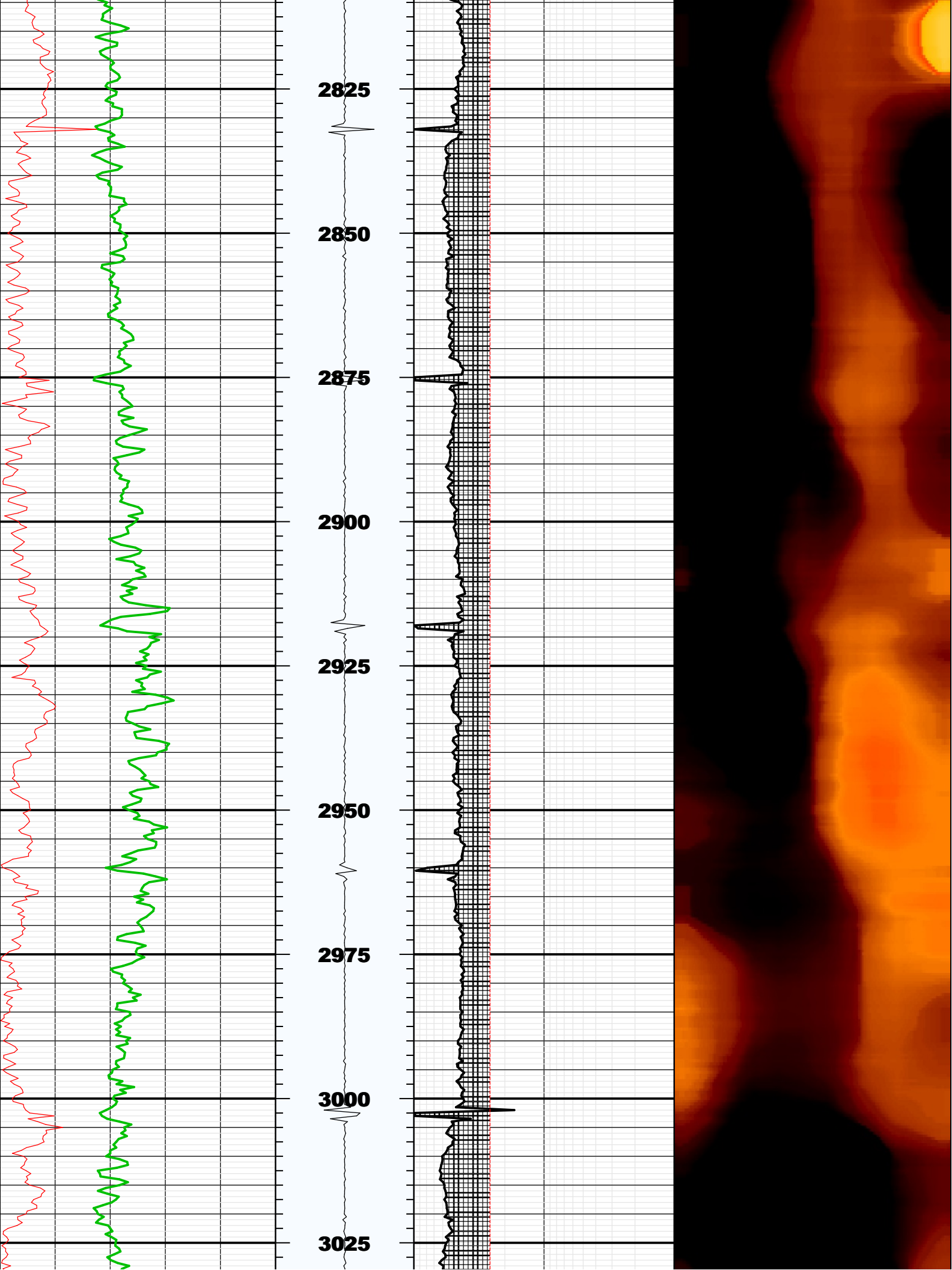


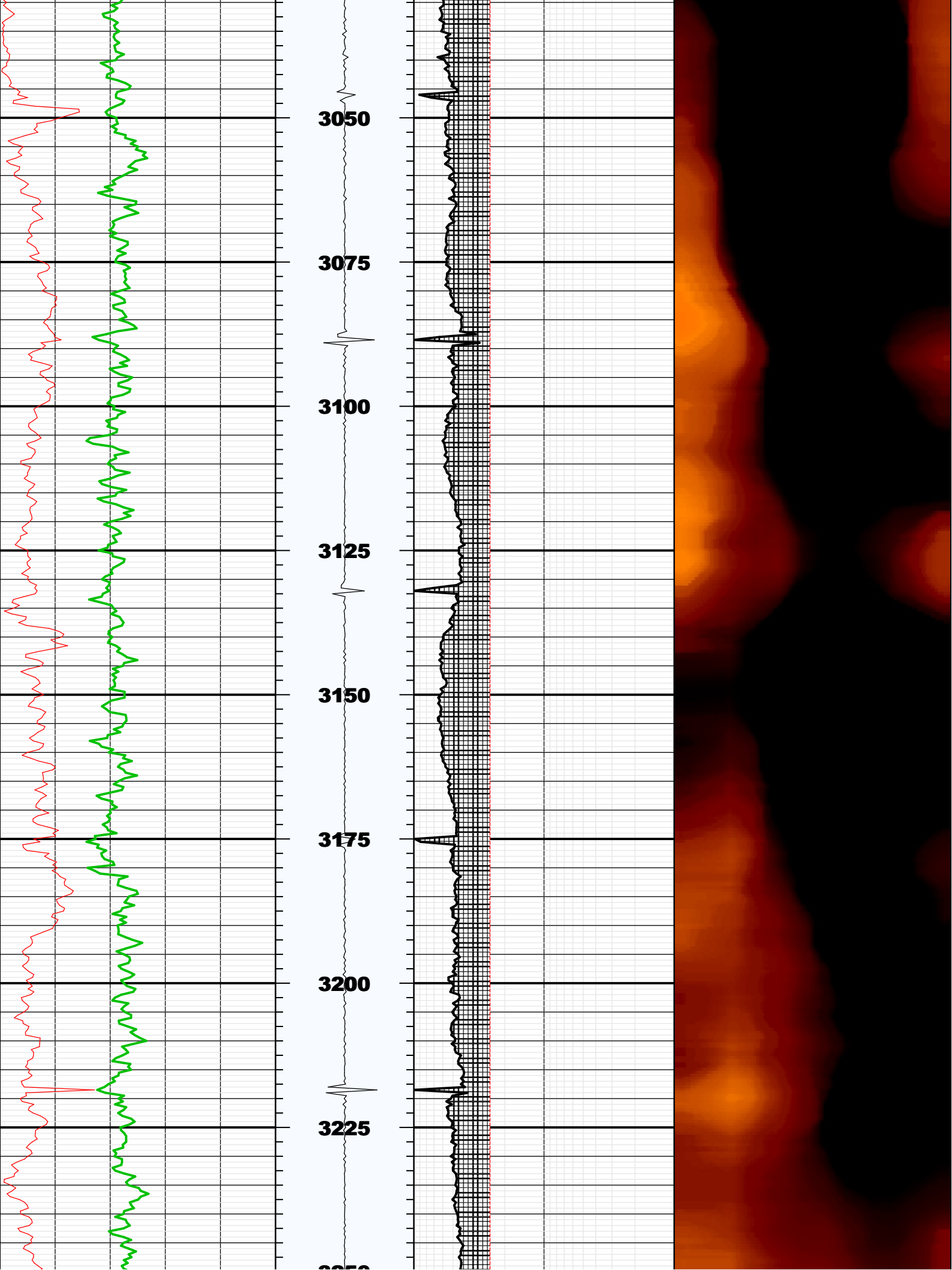


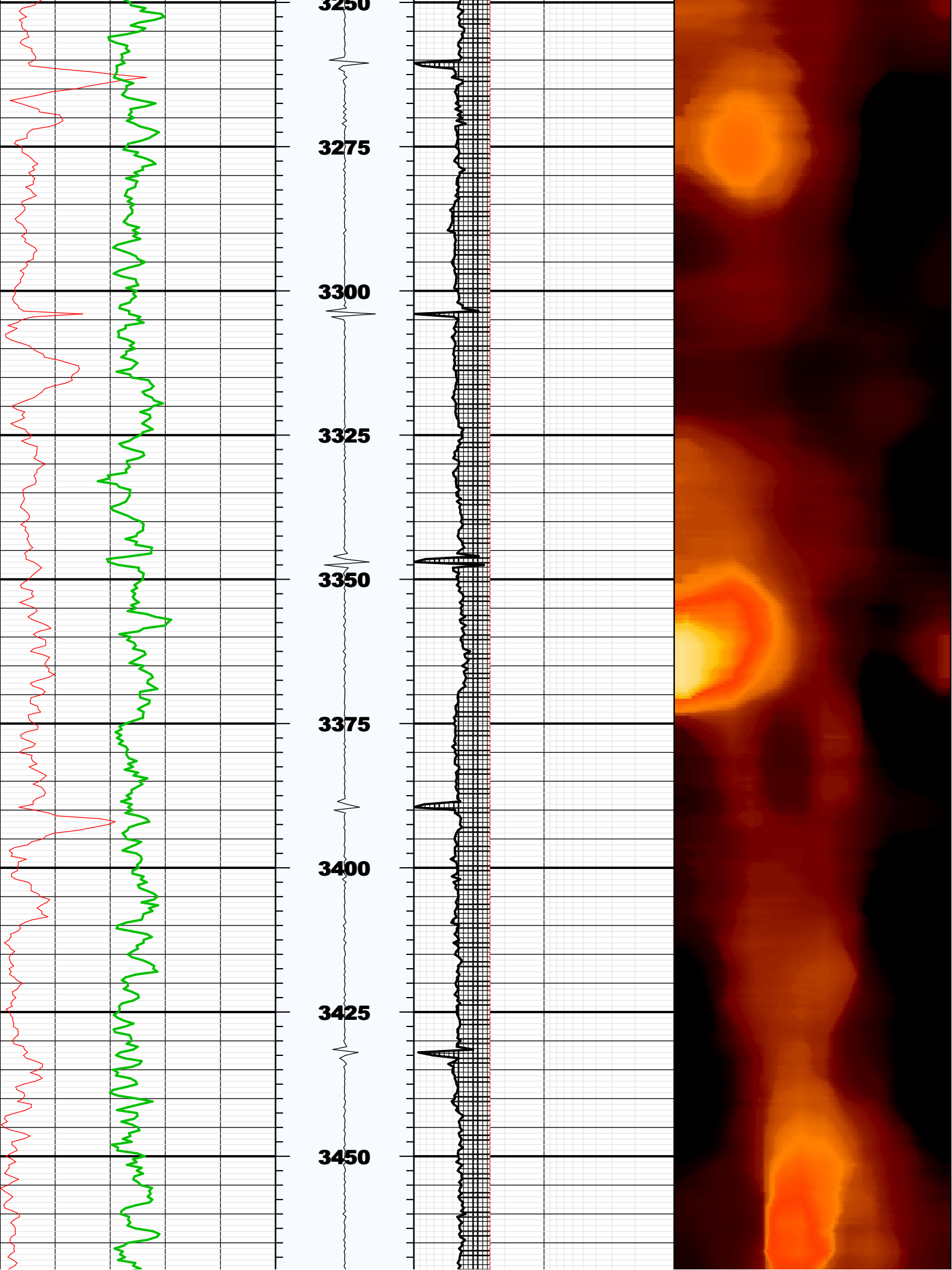


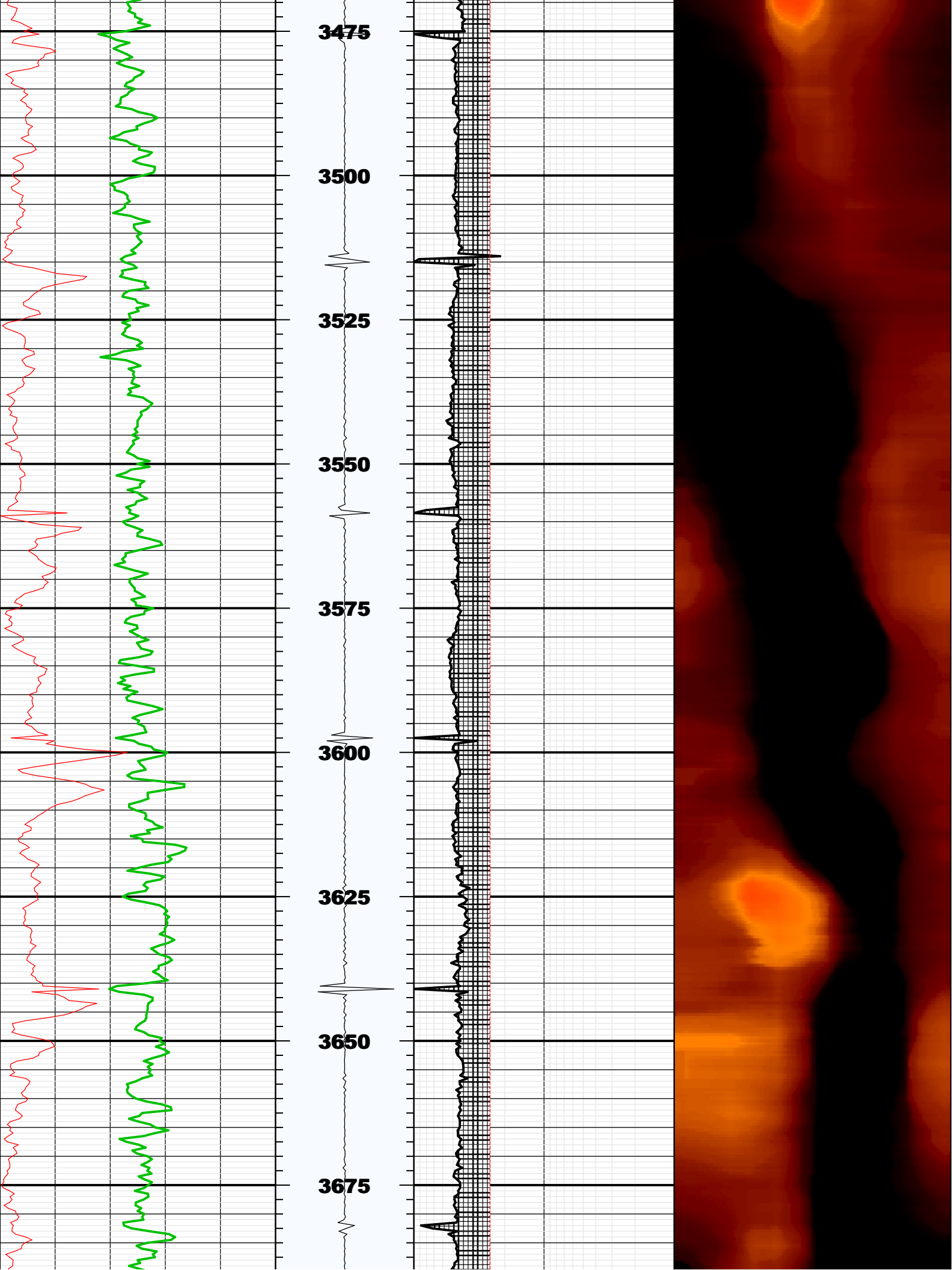


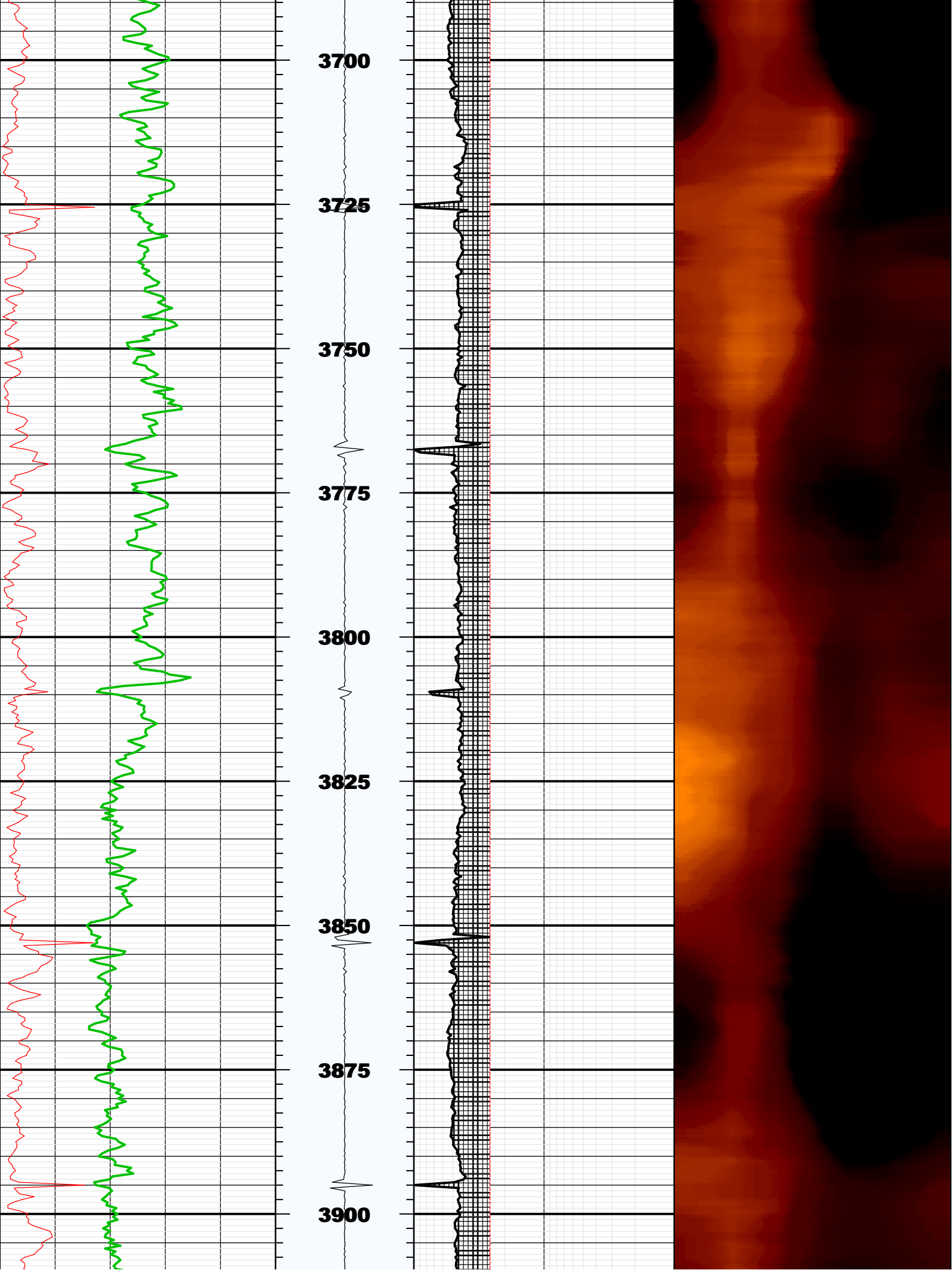


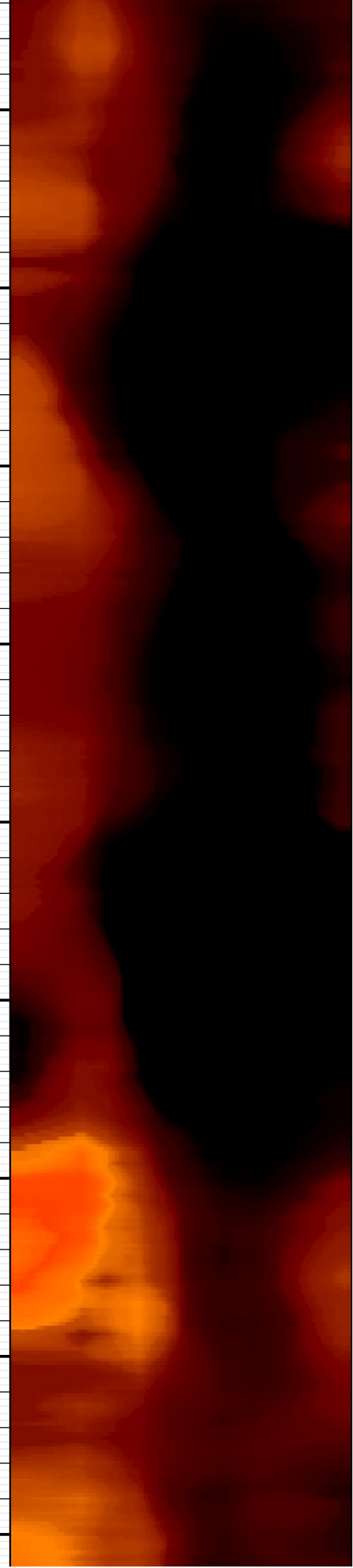
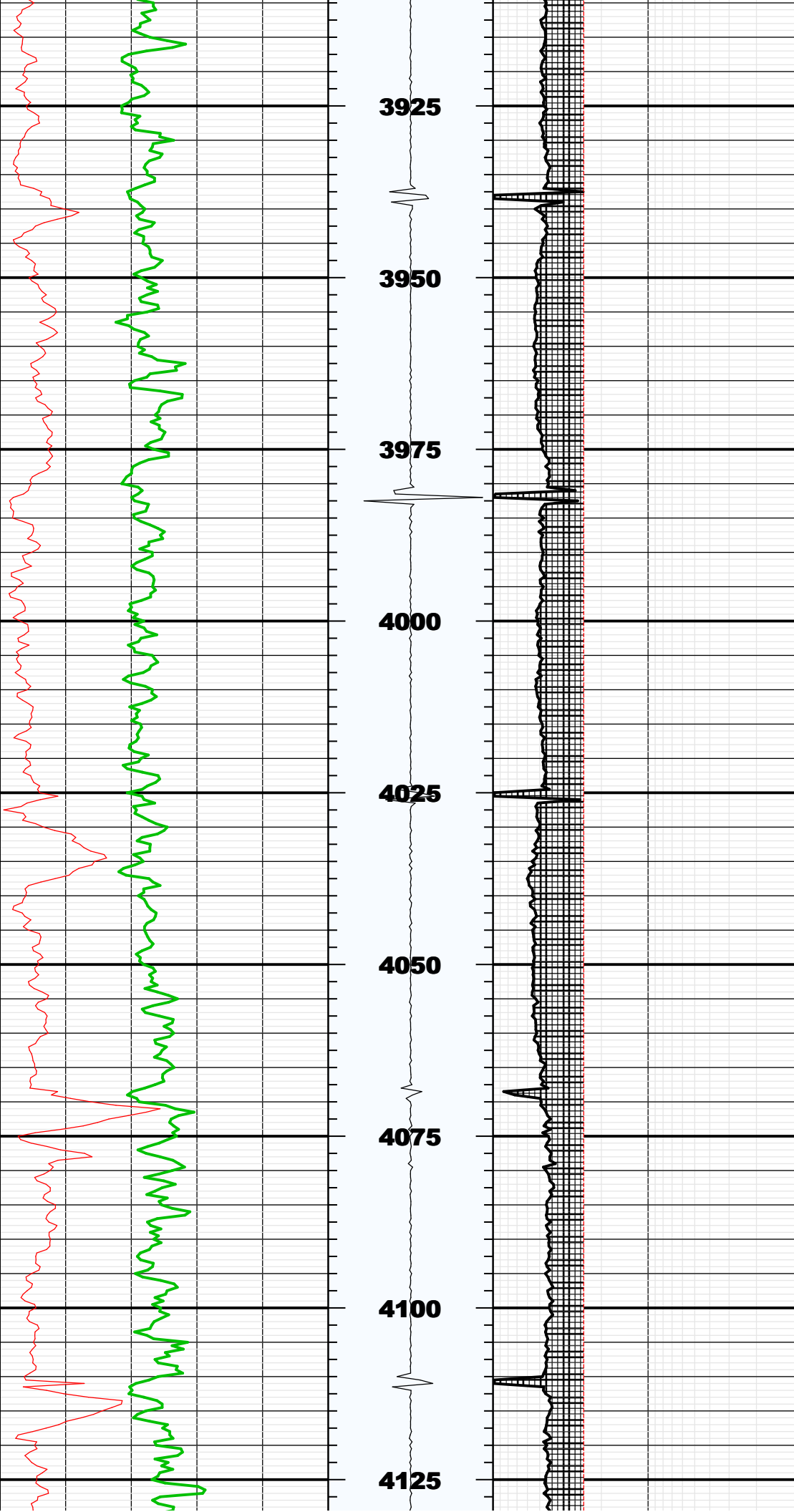


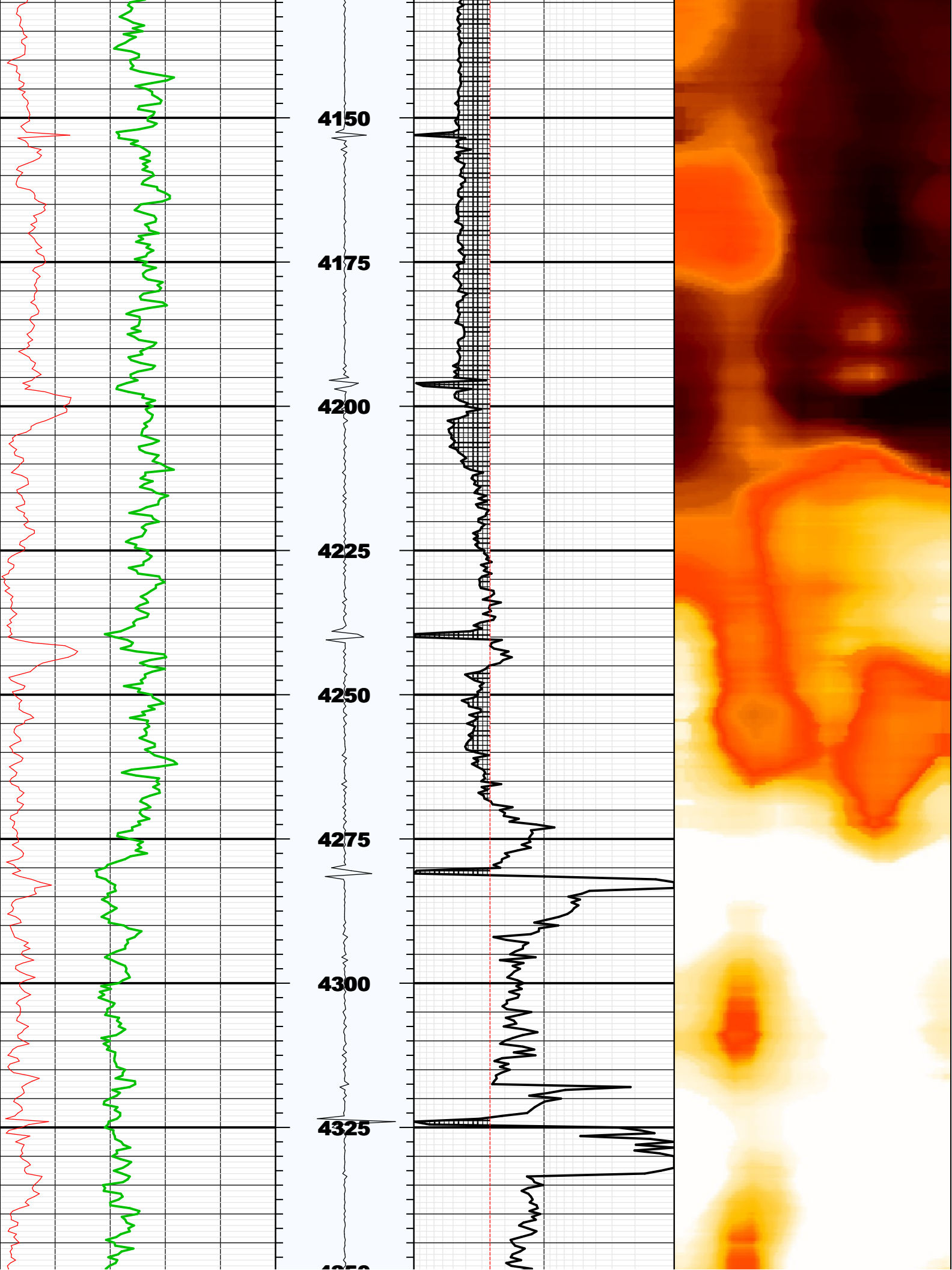


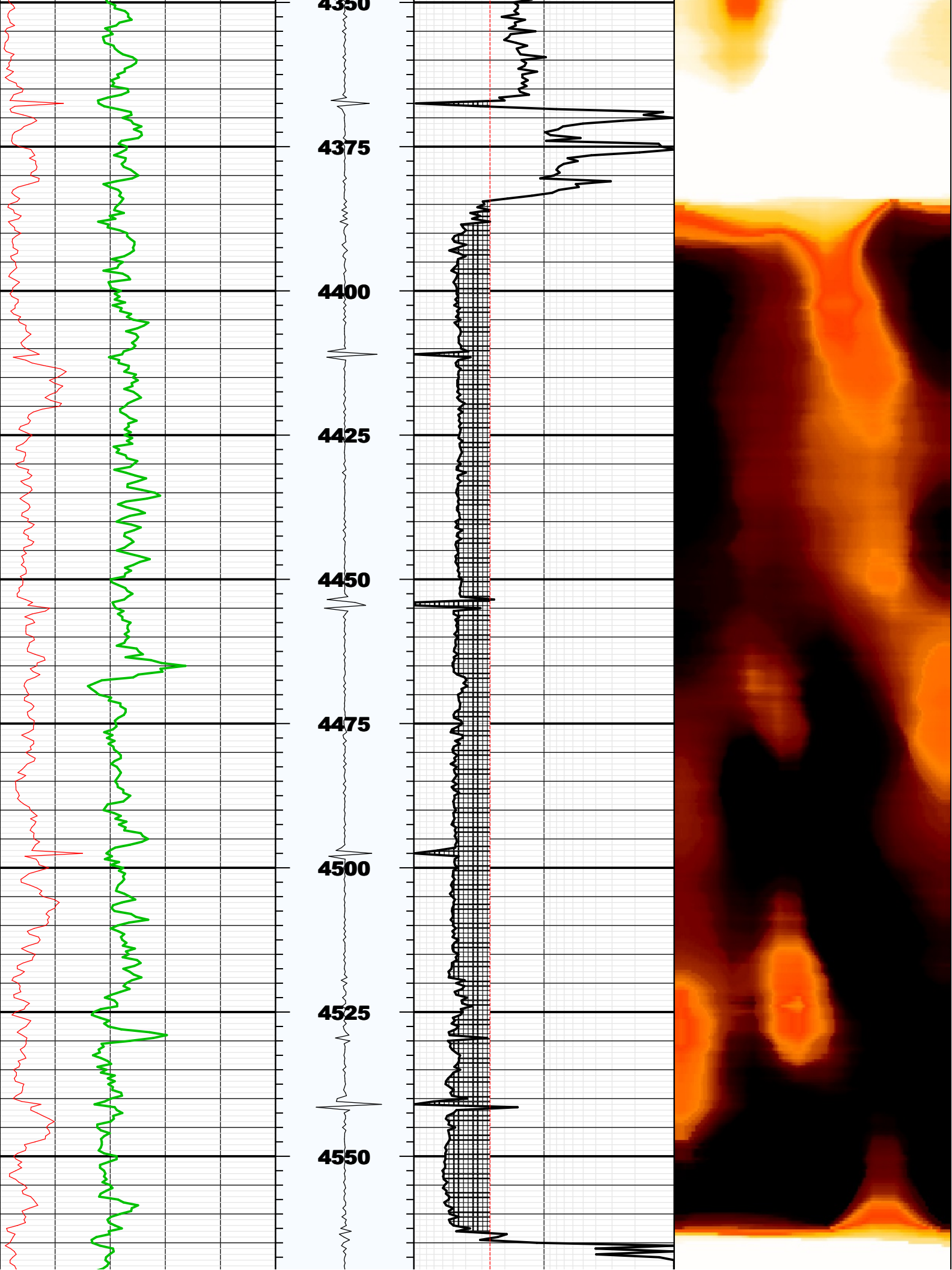


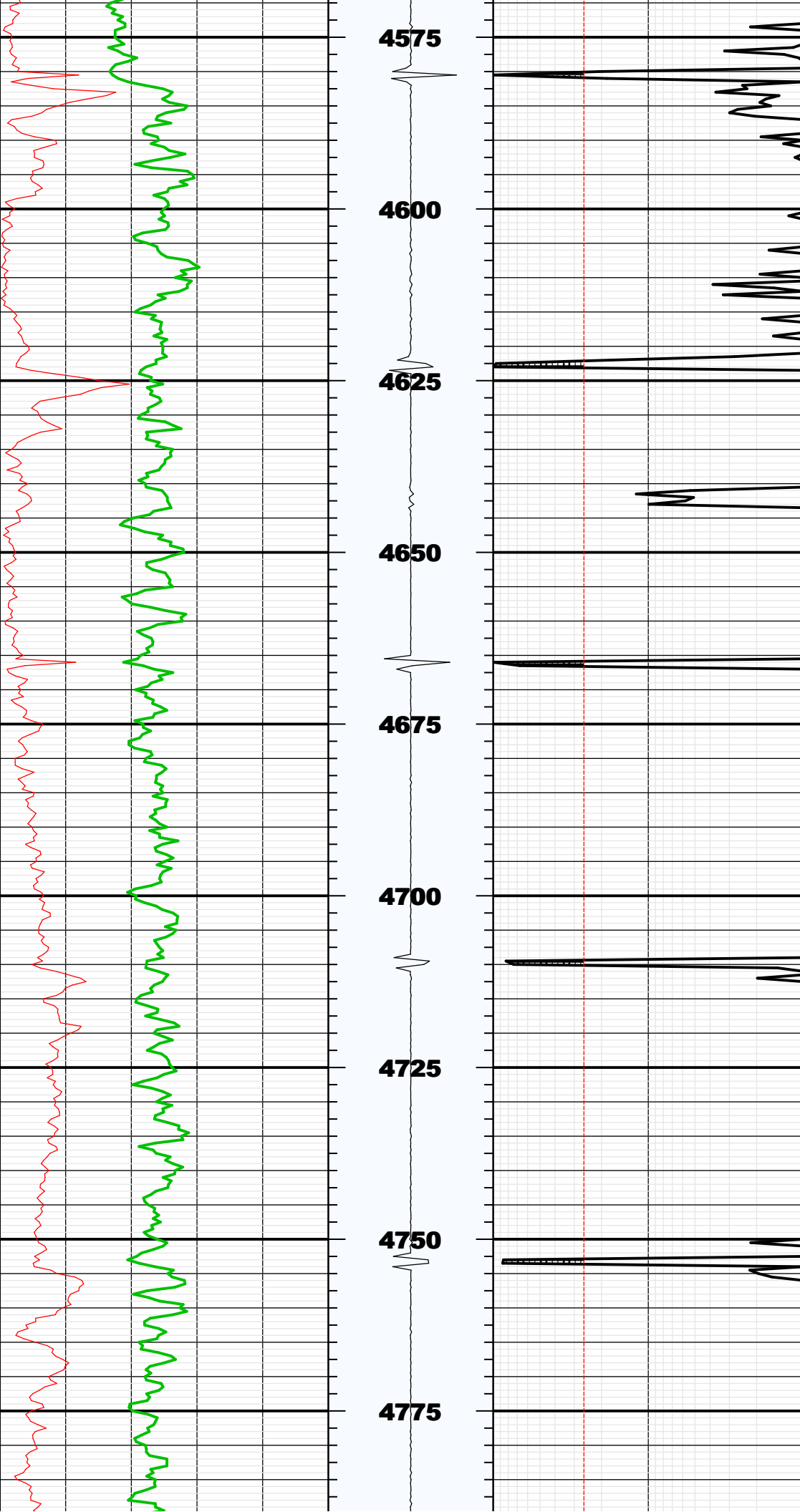


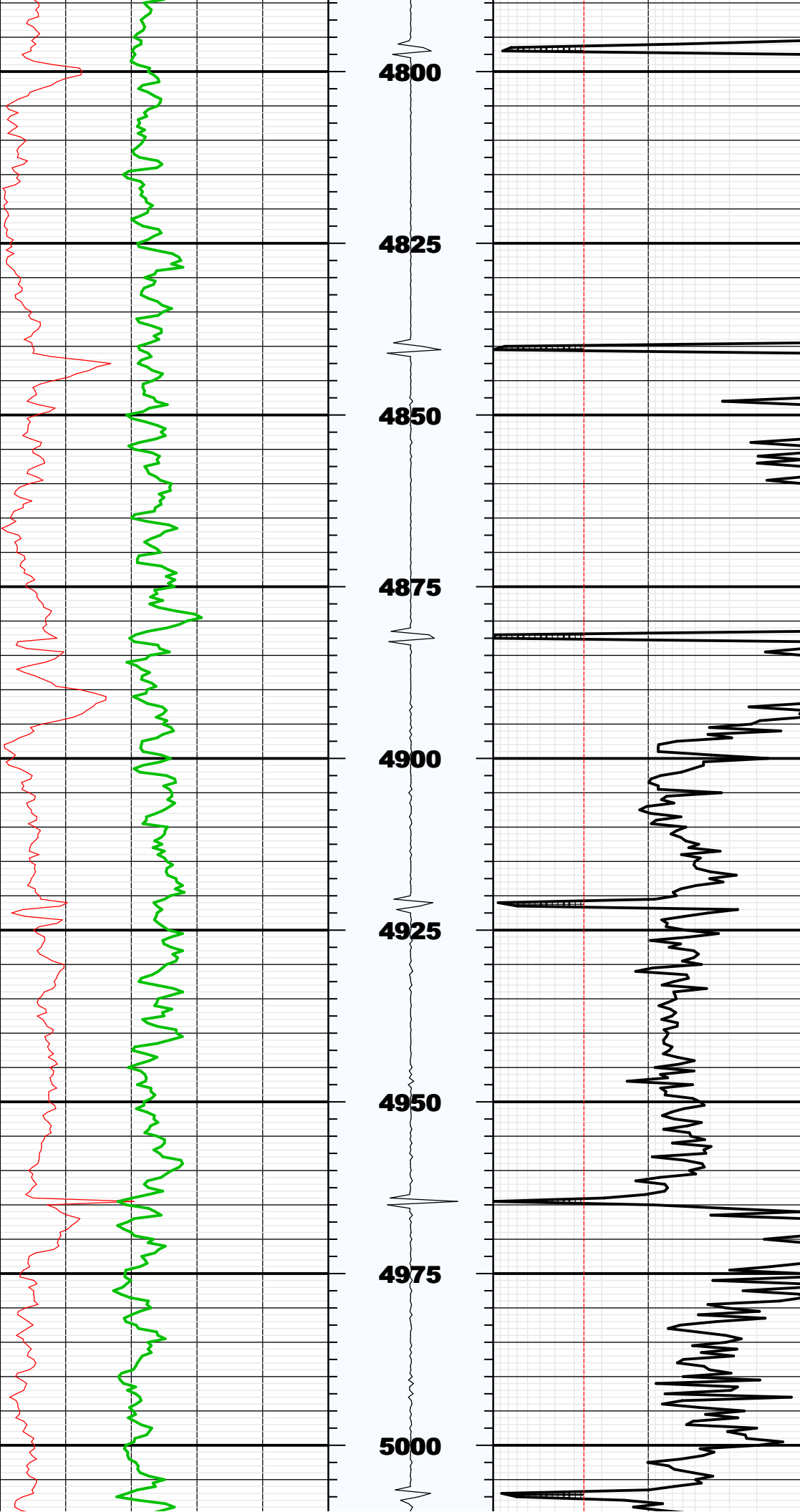


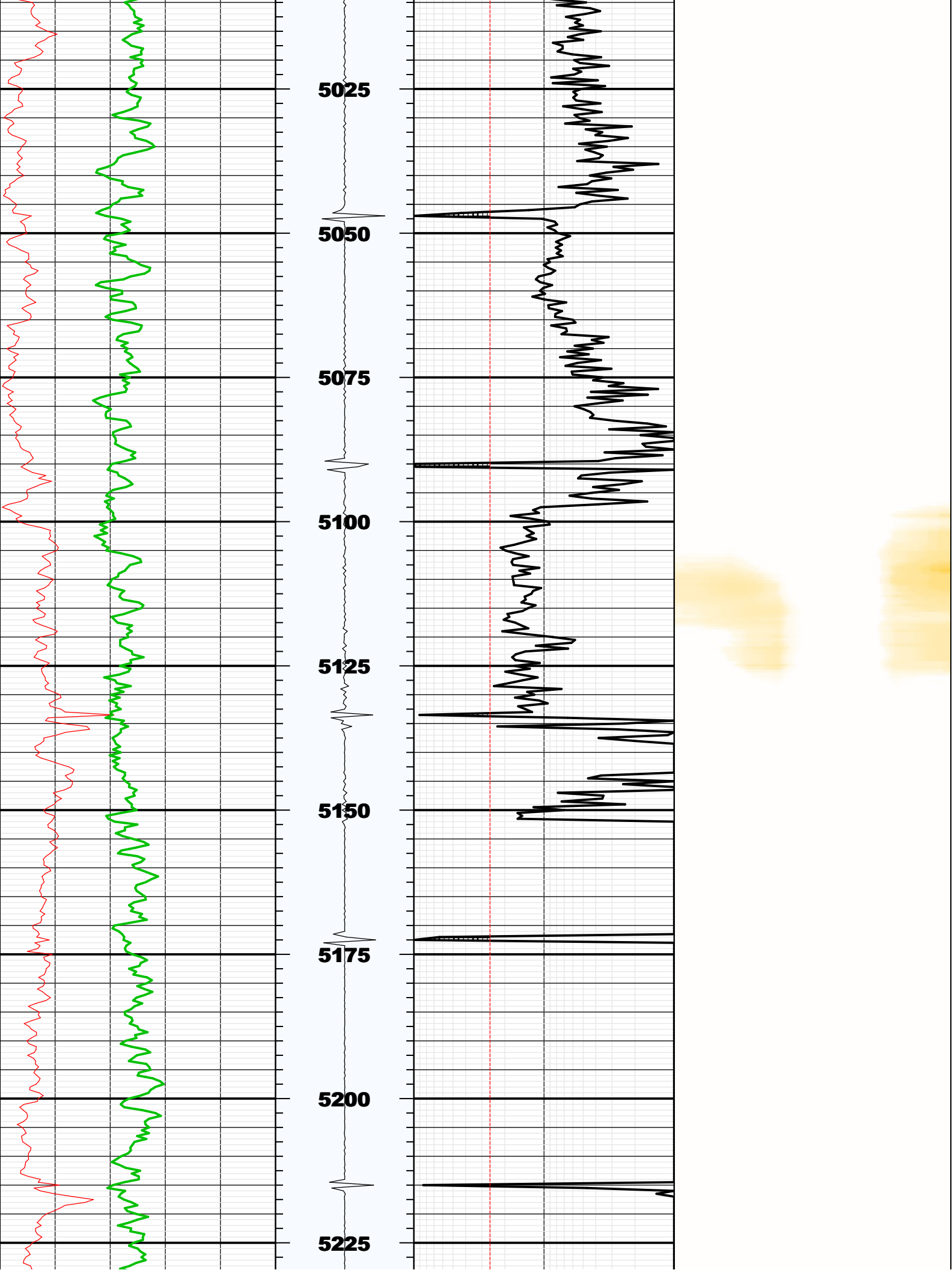


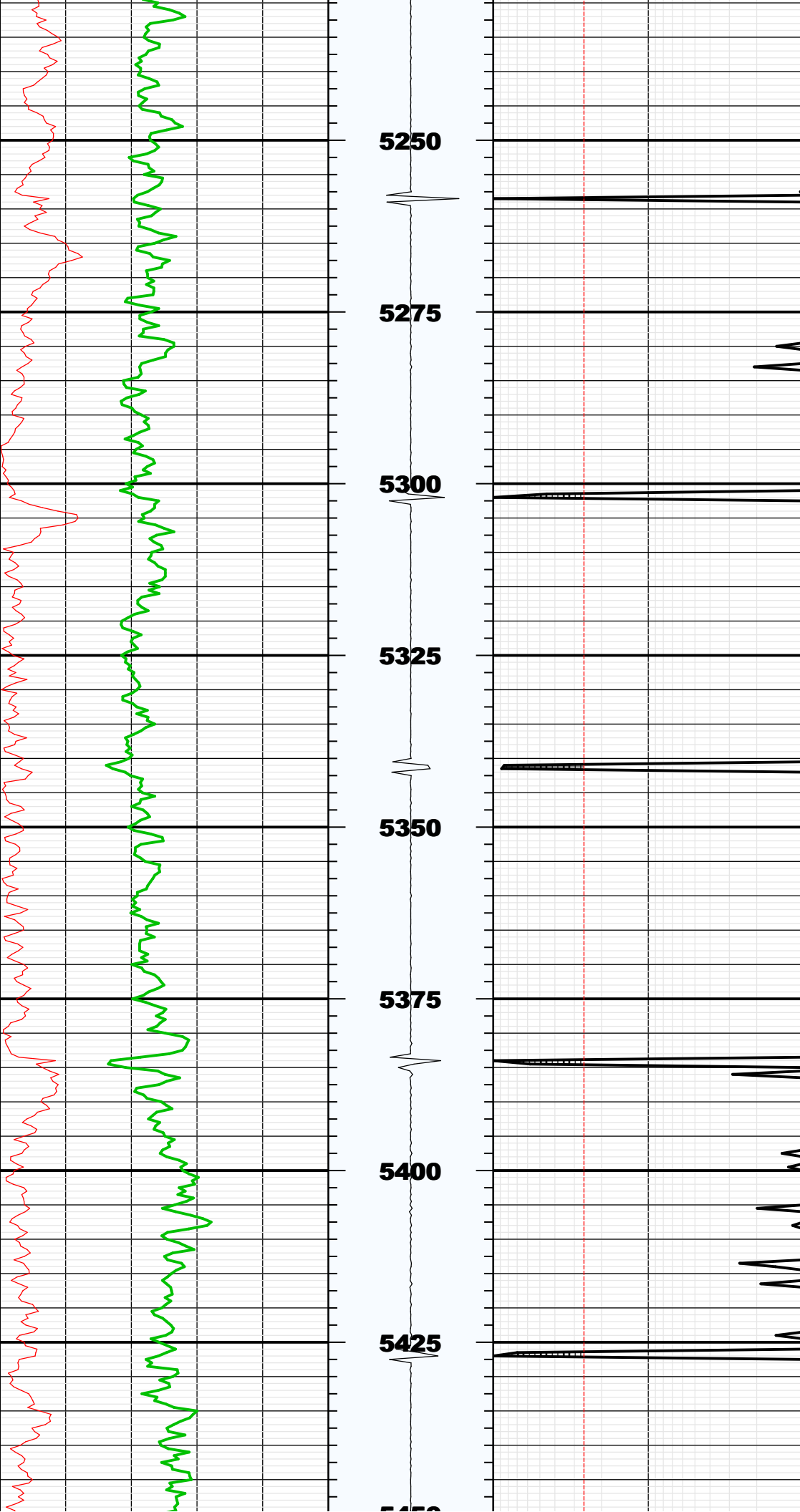


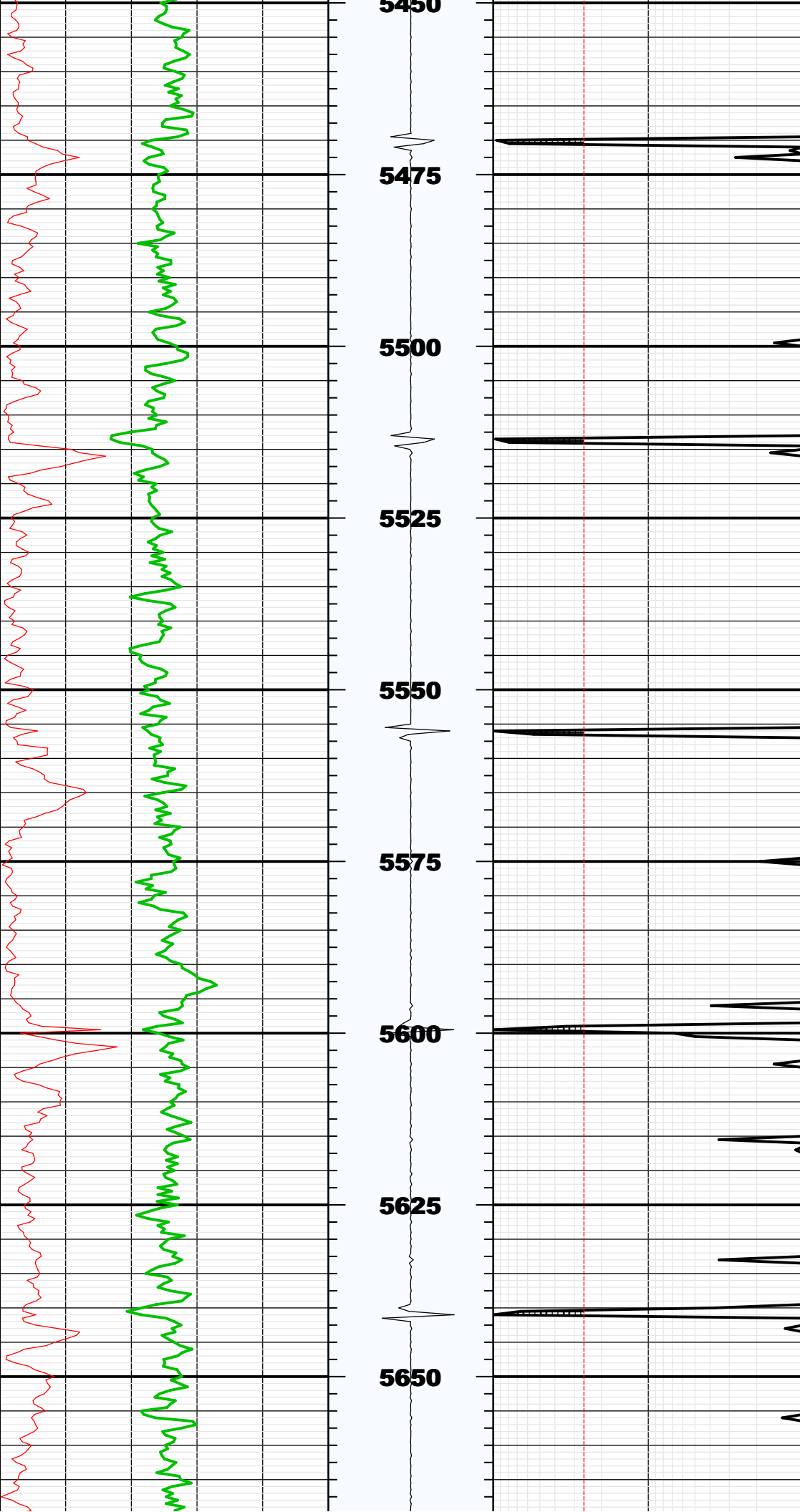


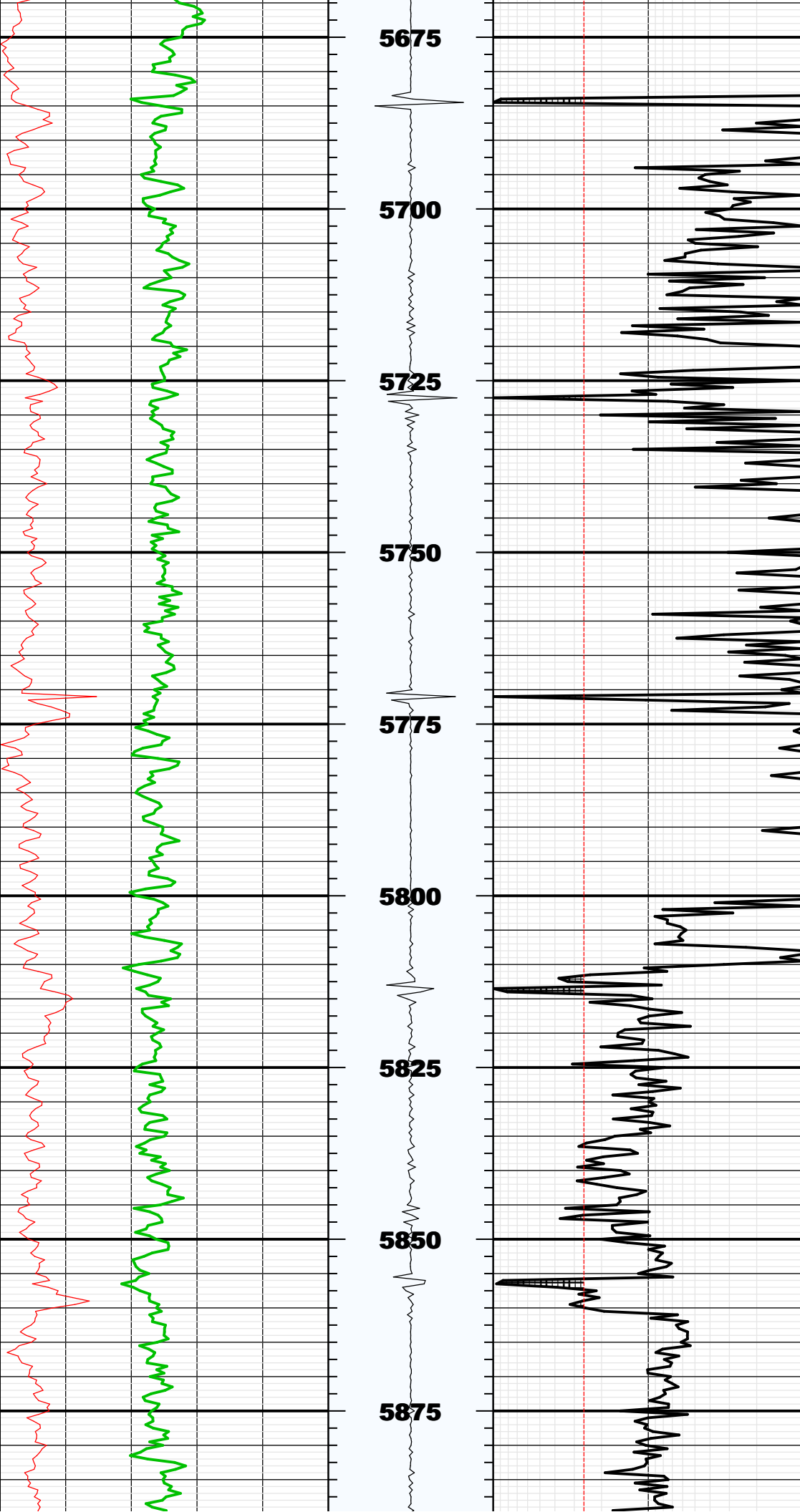


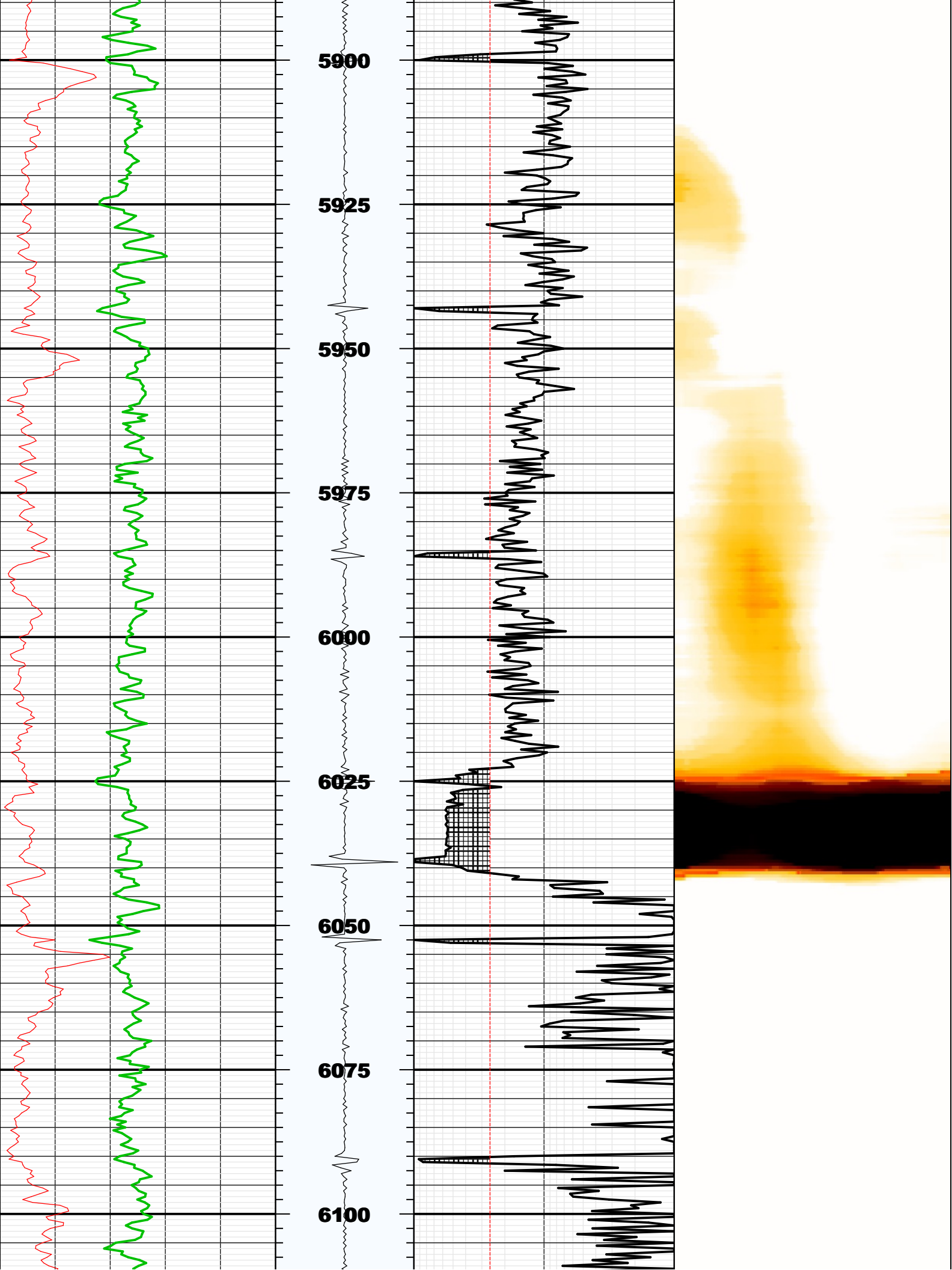


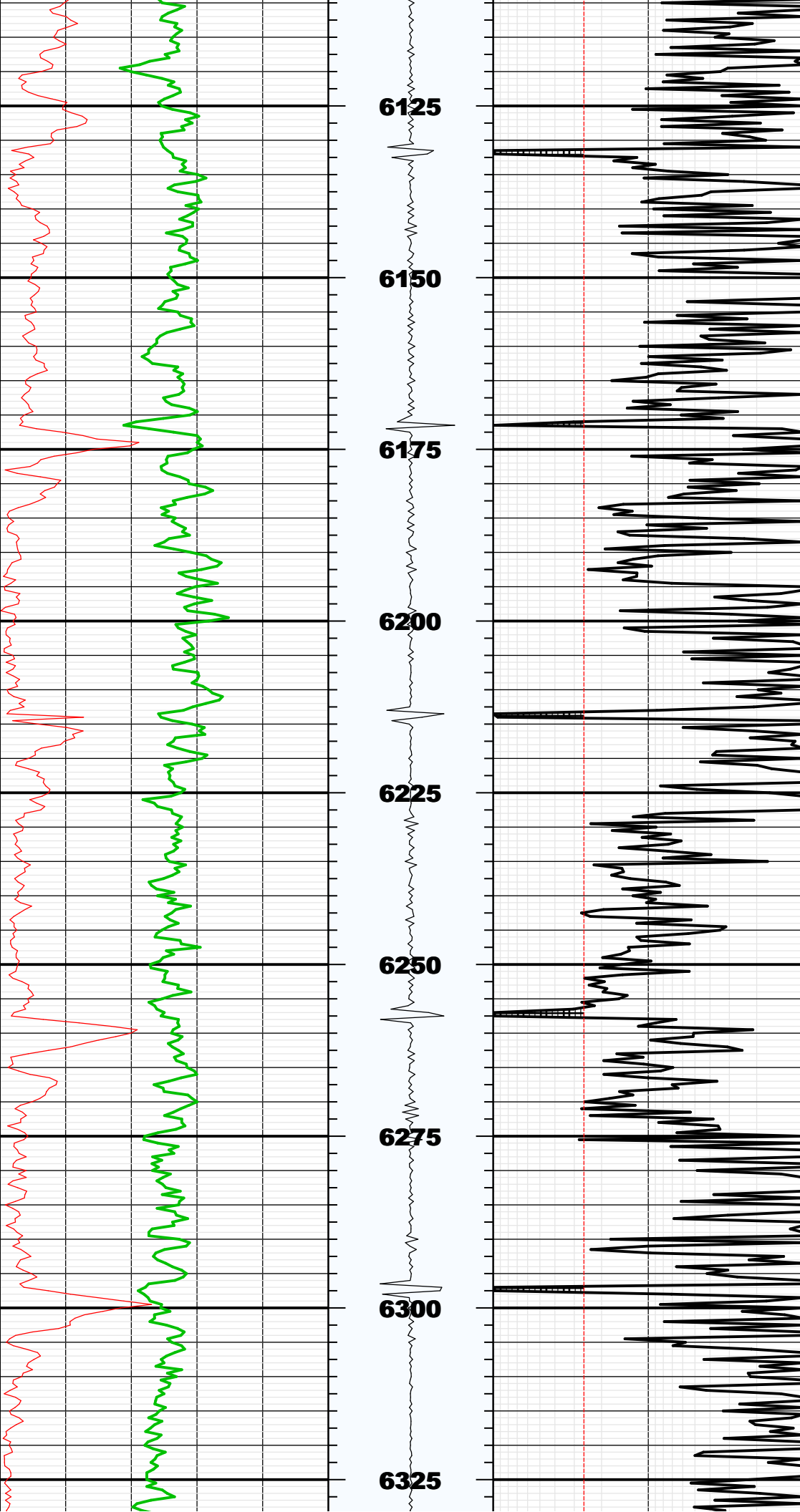


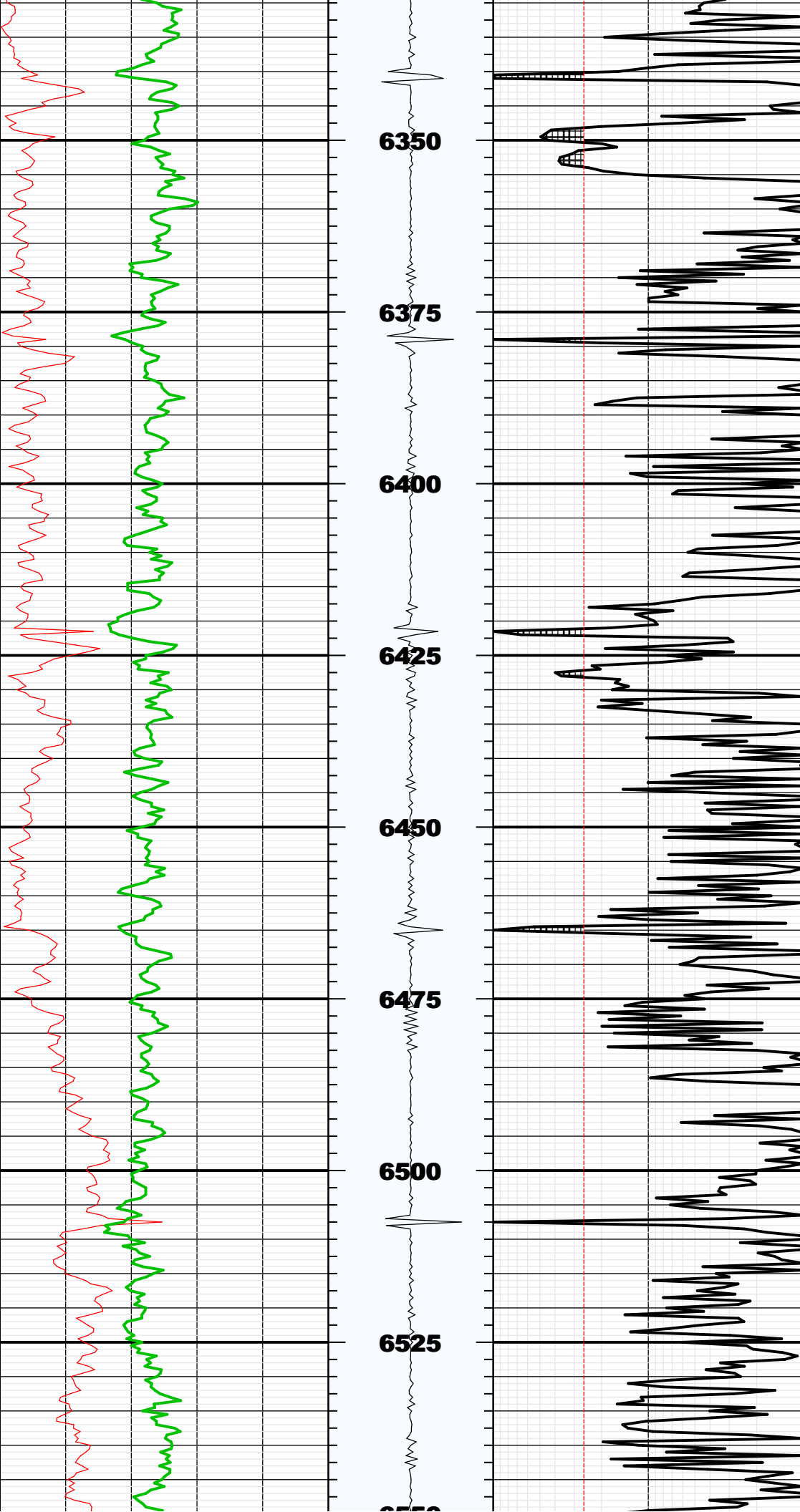


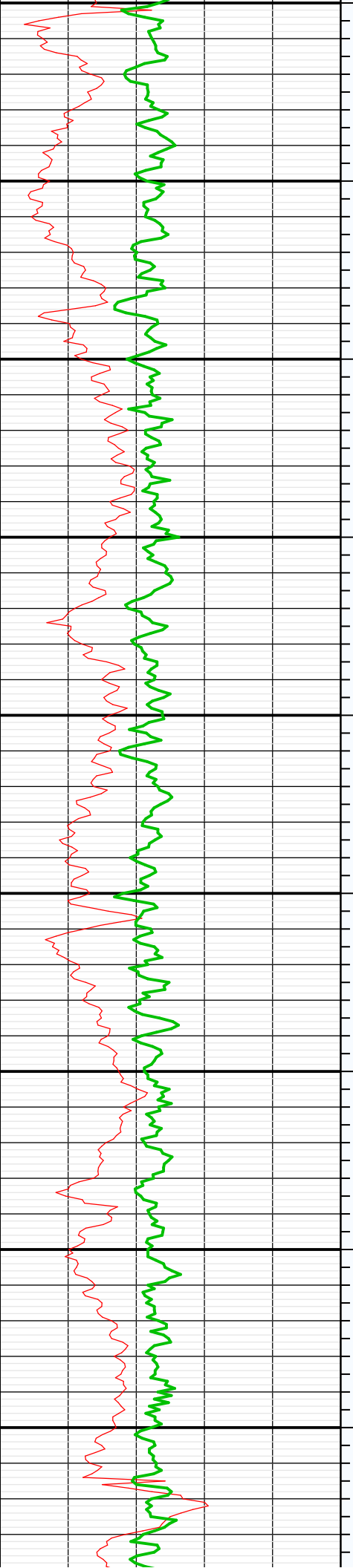




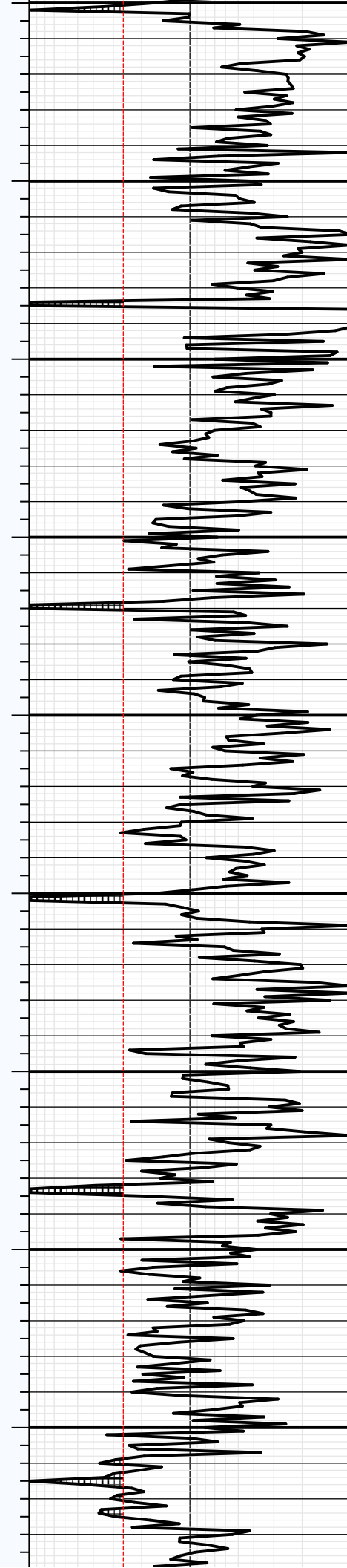


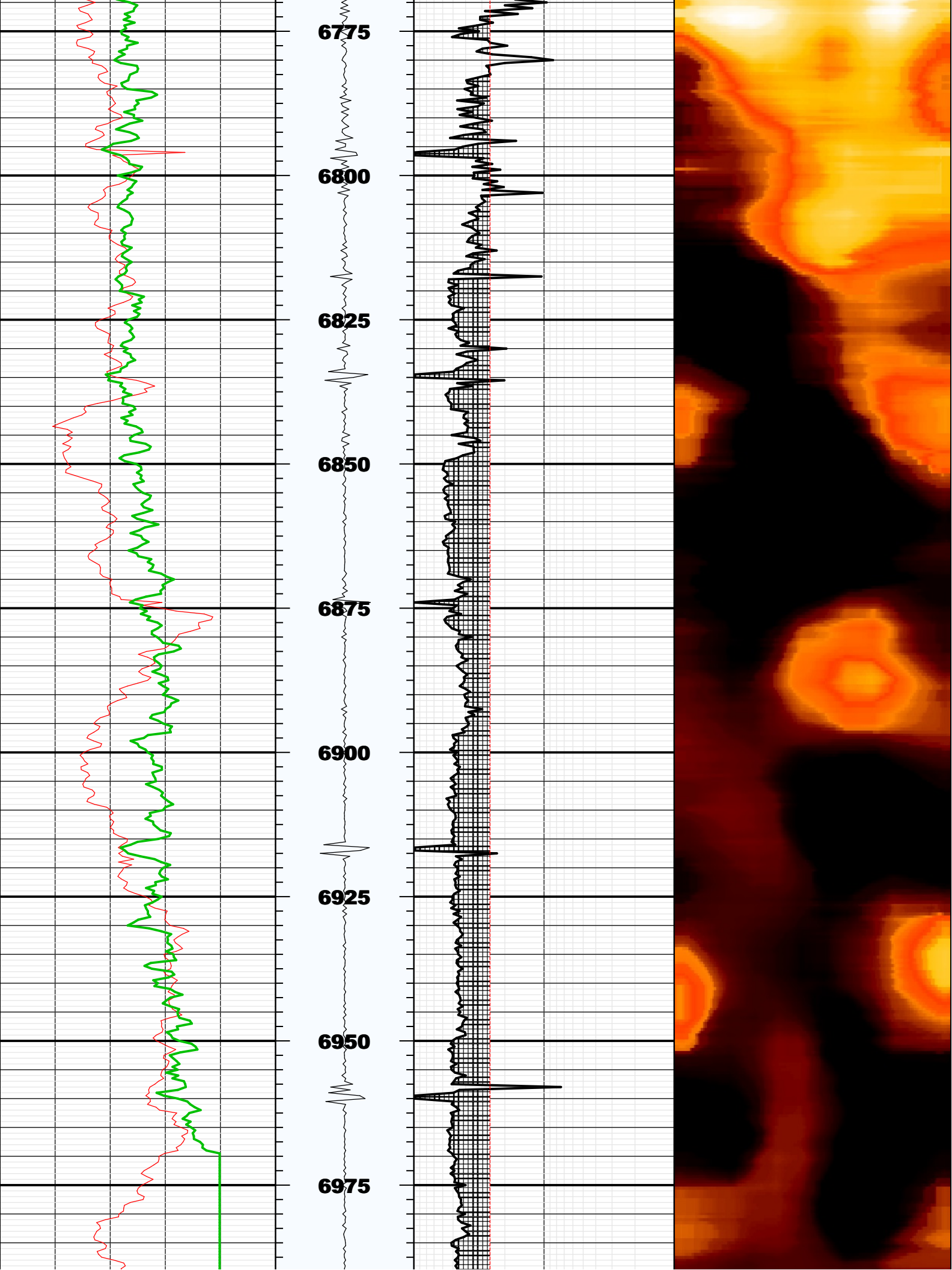


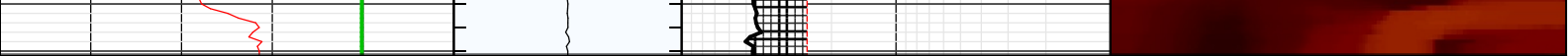




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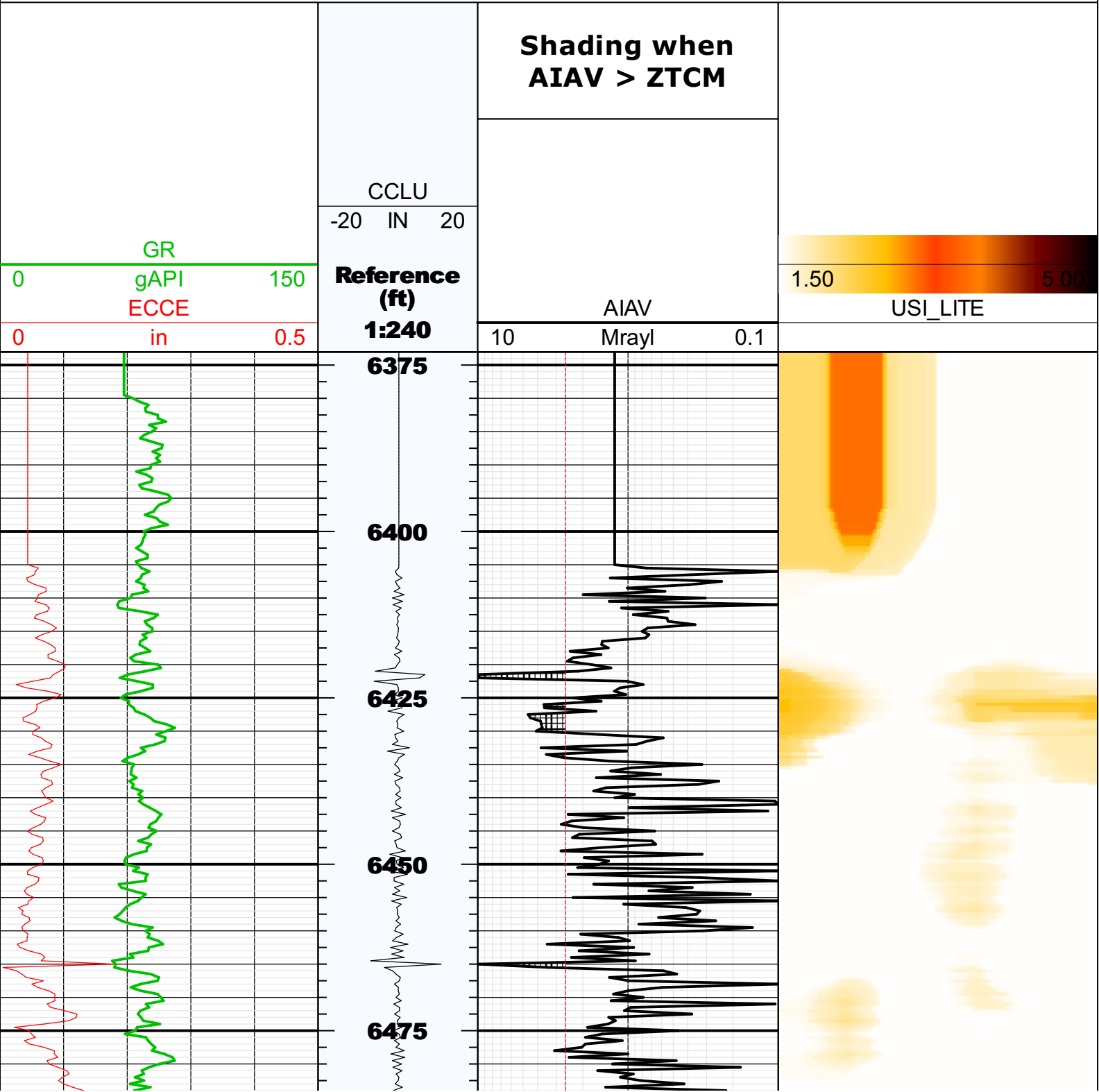


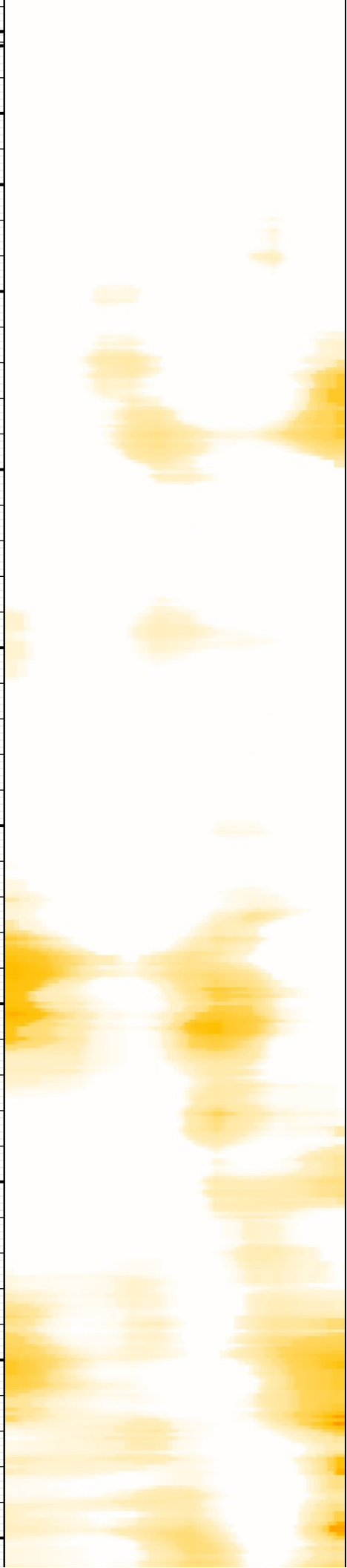
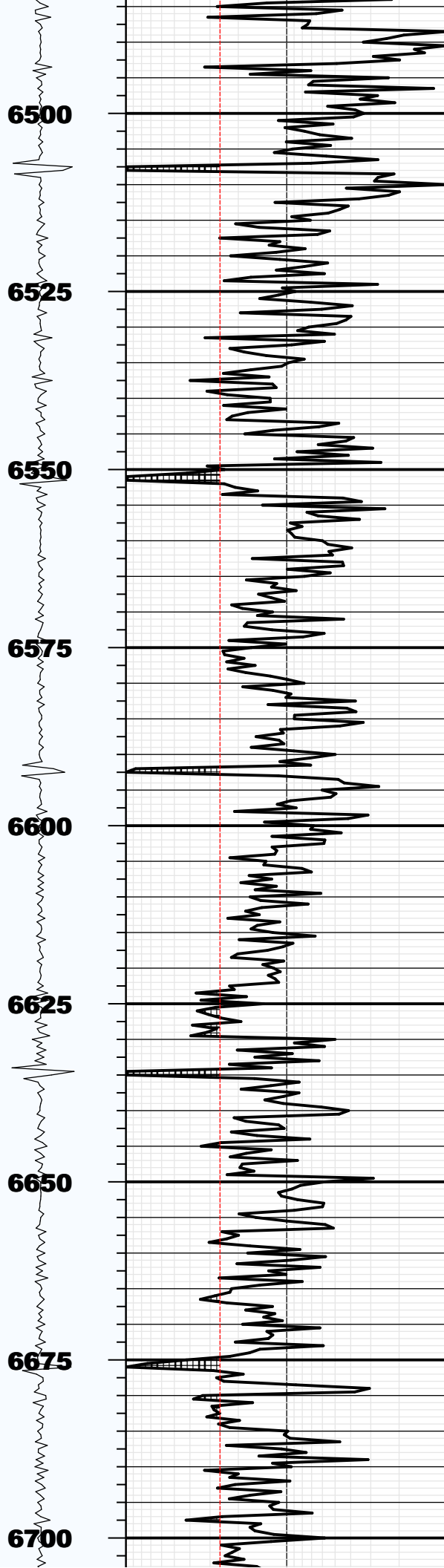
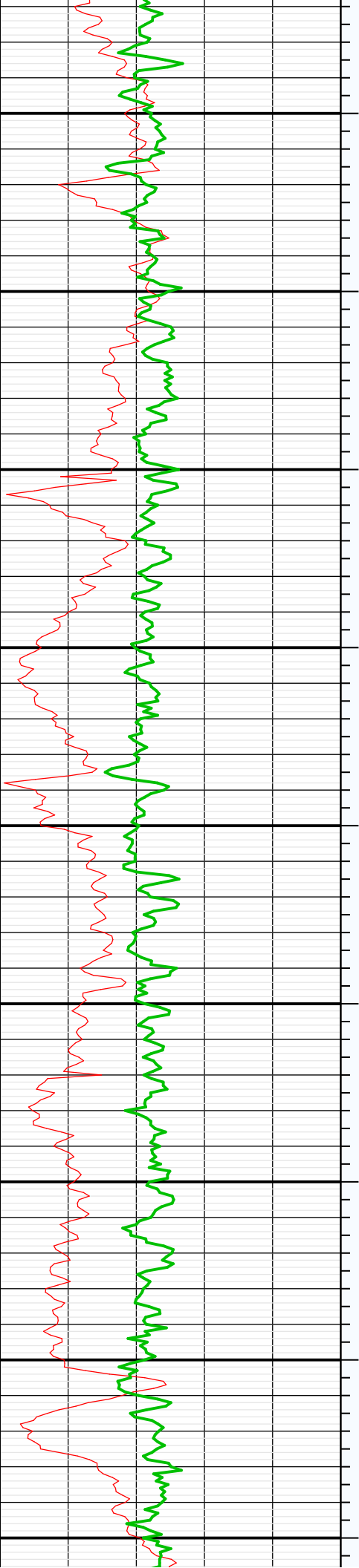


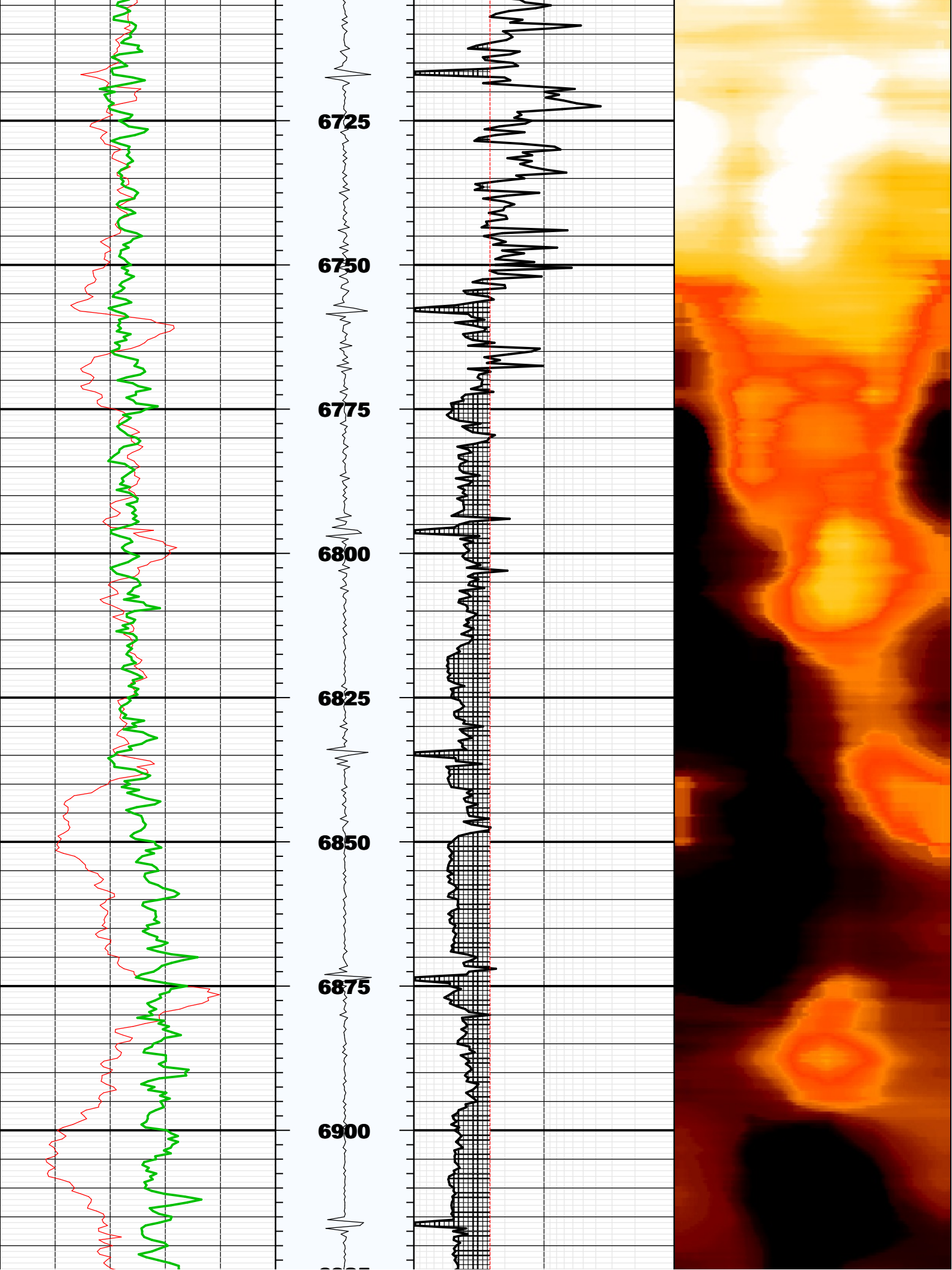
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	191.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	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	34.14850	US	Window Begin Time
WINE	74.14850	US	Window End Time
ZCAS	46.25000	MRAY	Acoustic Impedance of Casing
ZINI	-1.00000	MRAY	Initial Estimate of Cement Impedance
ZMUD	1.75000	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

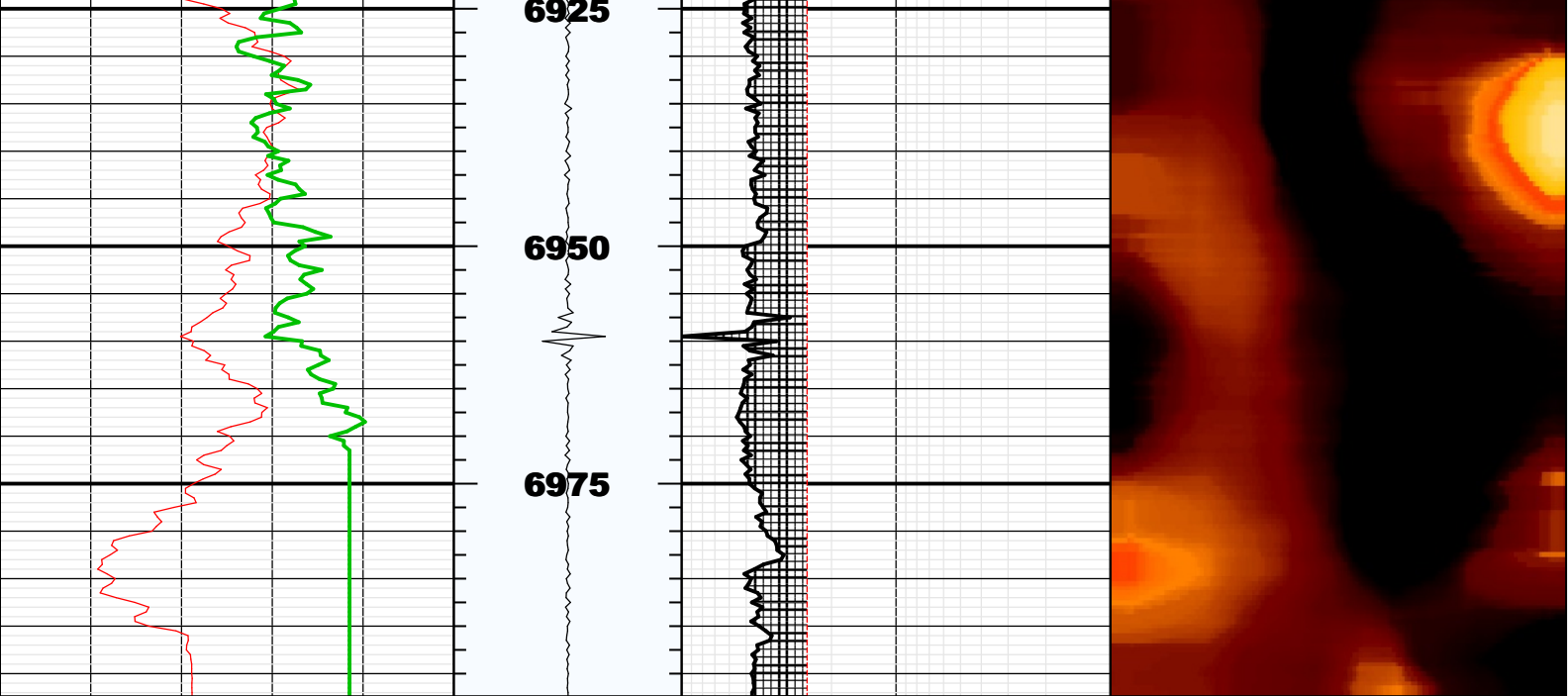
Repeat Pass

Company: Noble Energy Inc
Well: Sandau K25-66-1HN
Field: Hambert









Fluid Properties Used for Main Pass

