

Company: Noble Energy Inc

Well: Wells Ranch AA35-62-1AHNC
Field: Wattenberg
County: Weld State: Colorado

County: Weld		USI-LITE					
Field: Wattenberg							
Location: SWSW Sec 36 T6N R63W							
Well: Wells Ranch AA35-62-1AHNC							
Company: Noble Energy Inc							
LOCATION		Permanent Datum: Log Measured From: Drilling Measured From:	GL KB KB	Elev: K.B. G.L. D.F. 4764.0 F 4740.0 F 4763.0 F			
API Serial No. 05-123-38670-0000					Section 36	Township 6N	Range 63W
Logging Date 12-May-2014							
Run Number Run 1							
Depth Driller		11091.0 F					
Schlumberger Depth		11091.0 F					
Bottom Log Interval		6840.0 F					
Top Log Interval		-999.2 F					
Casing Fluid Level		8.0 F					
Salinity							
Density		8.40 LB/G					
Fluid Level		8.0 F					
BIT/CASING/TUBING STRING							
Bit Size		8.750 IN					
From		604.0 F					
To		6964.0 F					
Casing Size		7.00 IN					
Weight		26.00 LB/F					
Grade		P110					
From		24.0 F					
To		6965.9 F					
Max Recorded Temp		-999.2					
Logger on bottom (date)		12-May-2014					
Location		Fort Morgan CO					
Recorded By		Keri Ondrus					
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

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) RESTRICTIIONS 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

Toolstring run as per toolsketch.

0 psi repeat pass

Main log pressured to 2500 PSI but dropped to 1800 PSI at about 6100'. Slowly bled from 1800 PSI to 1400 PSI throughout log.

11.5 ppg tuned spacer 12.5 ppg lead cement 13.8 ppg tail cement.

Full returns throughout cement job. 3000 psi held for 15 mins floats held. 30 bbls spacer to surface.

Estimated TOC @ 350'. Expected TOC @ 707'.

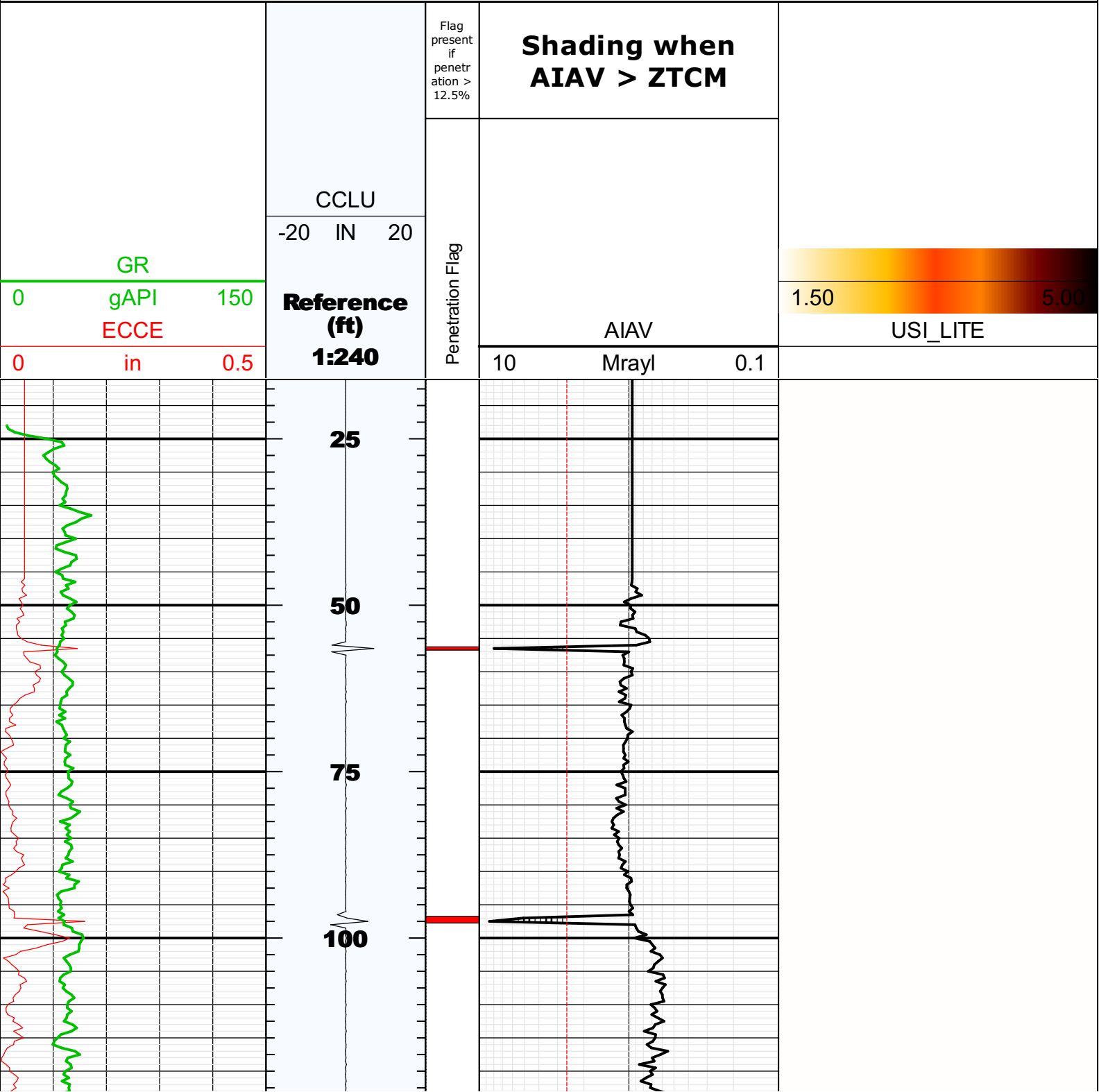
4.5 liner top at 6860.1'.

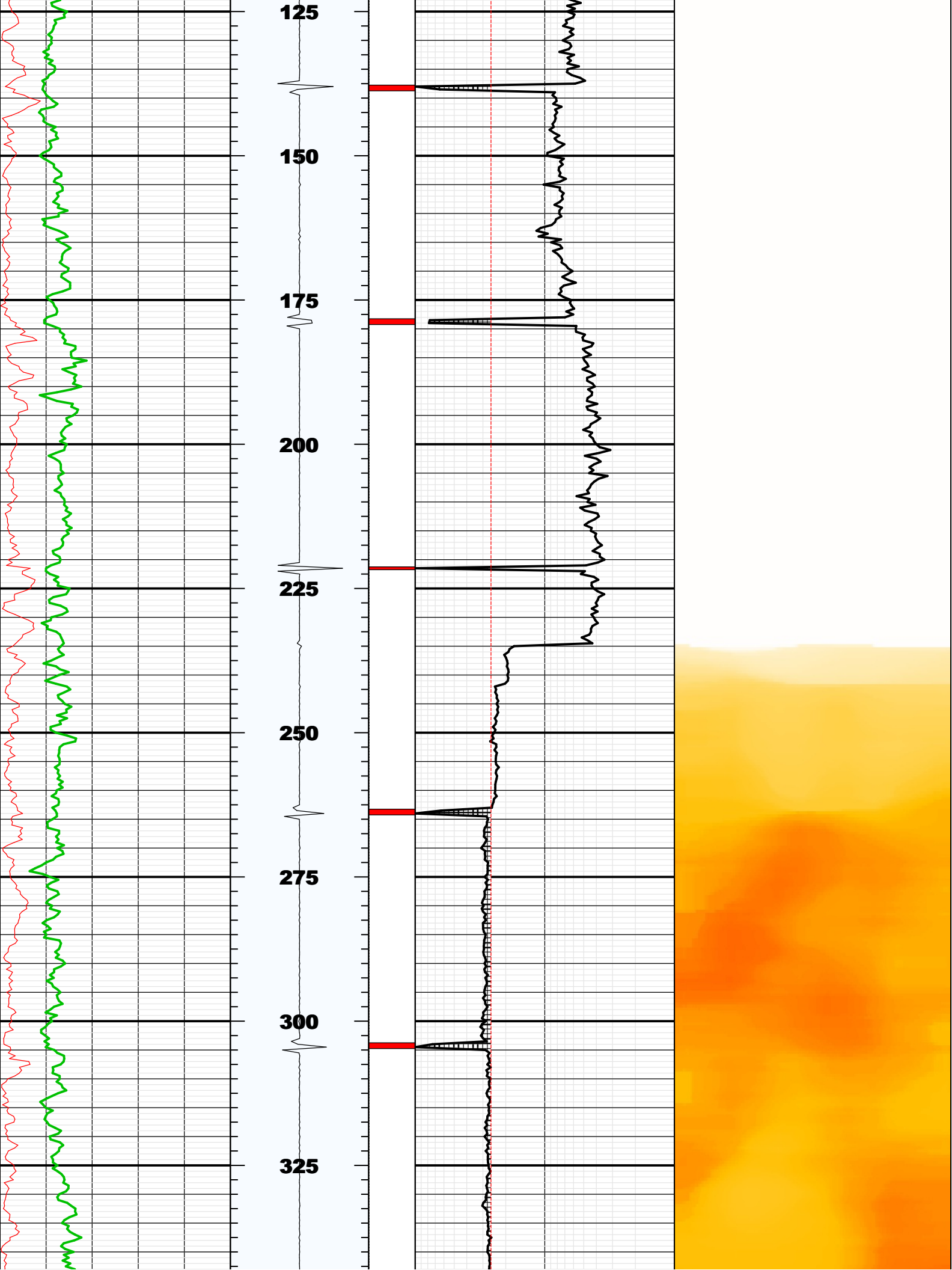
Thank you for choosing Schlumberger Wireline.

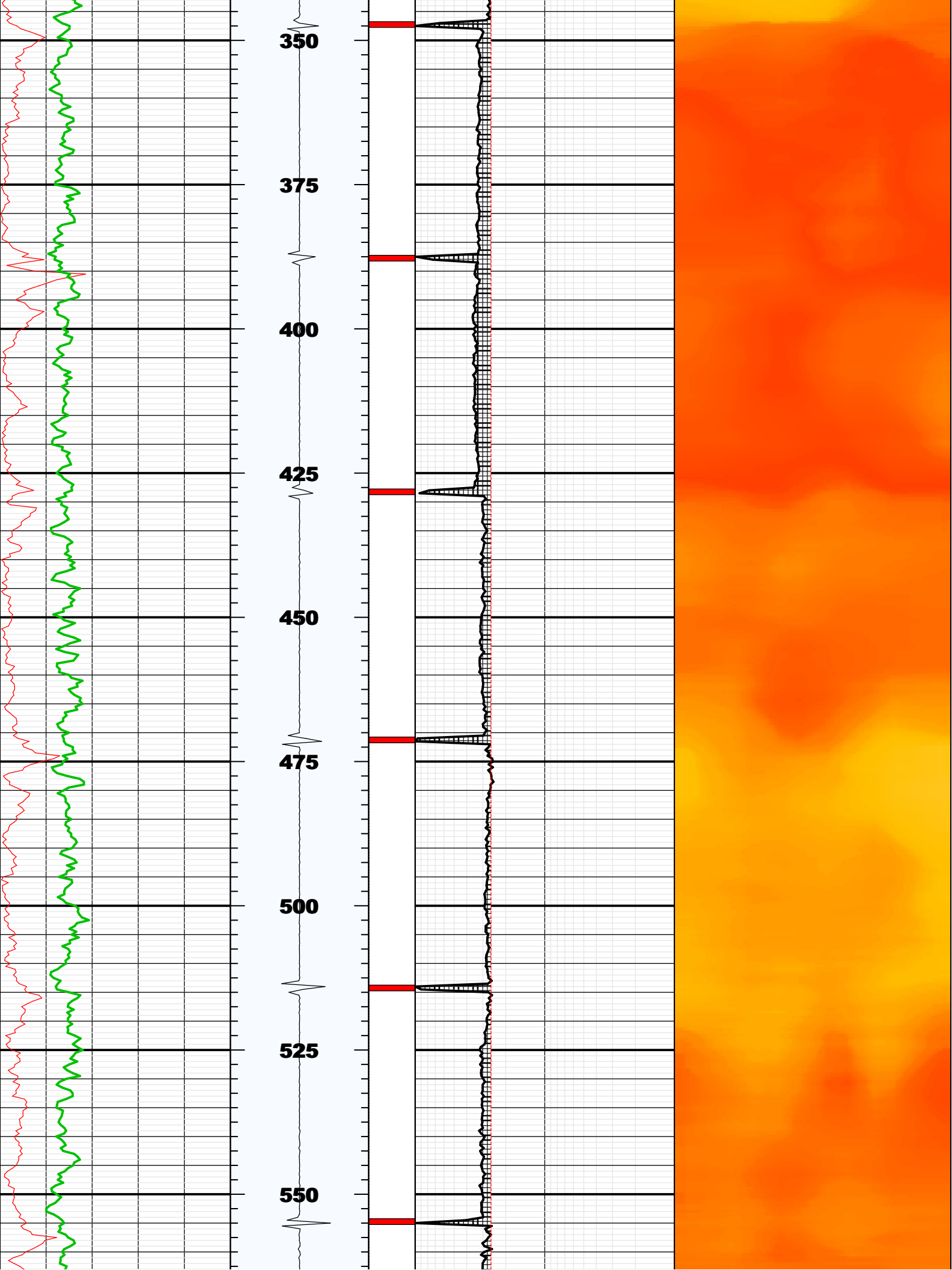
Schlumberger crew Troy Ocanas and Tyler Riter.

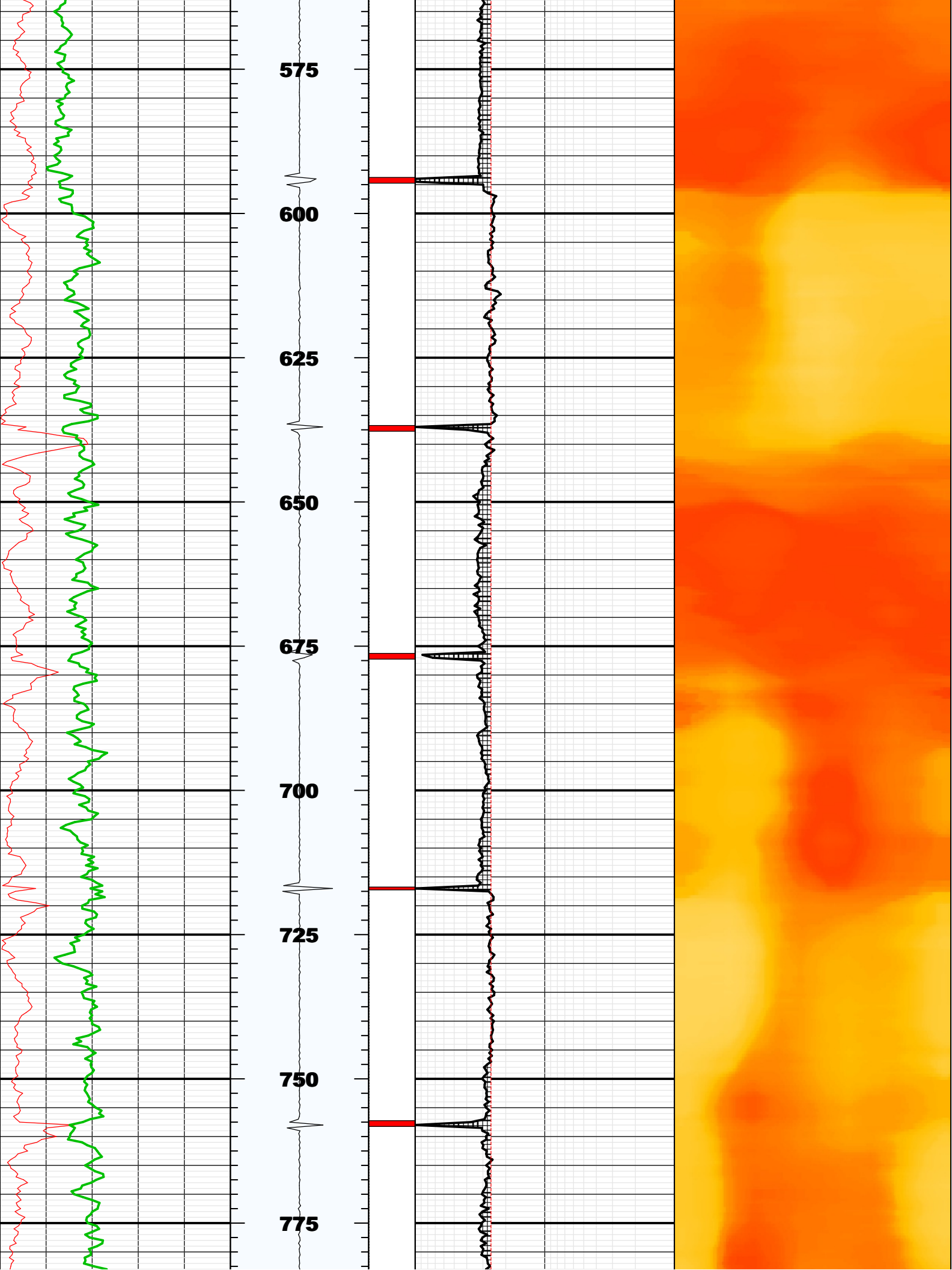
Main Pass

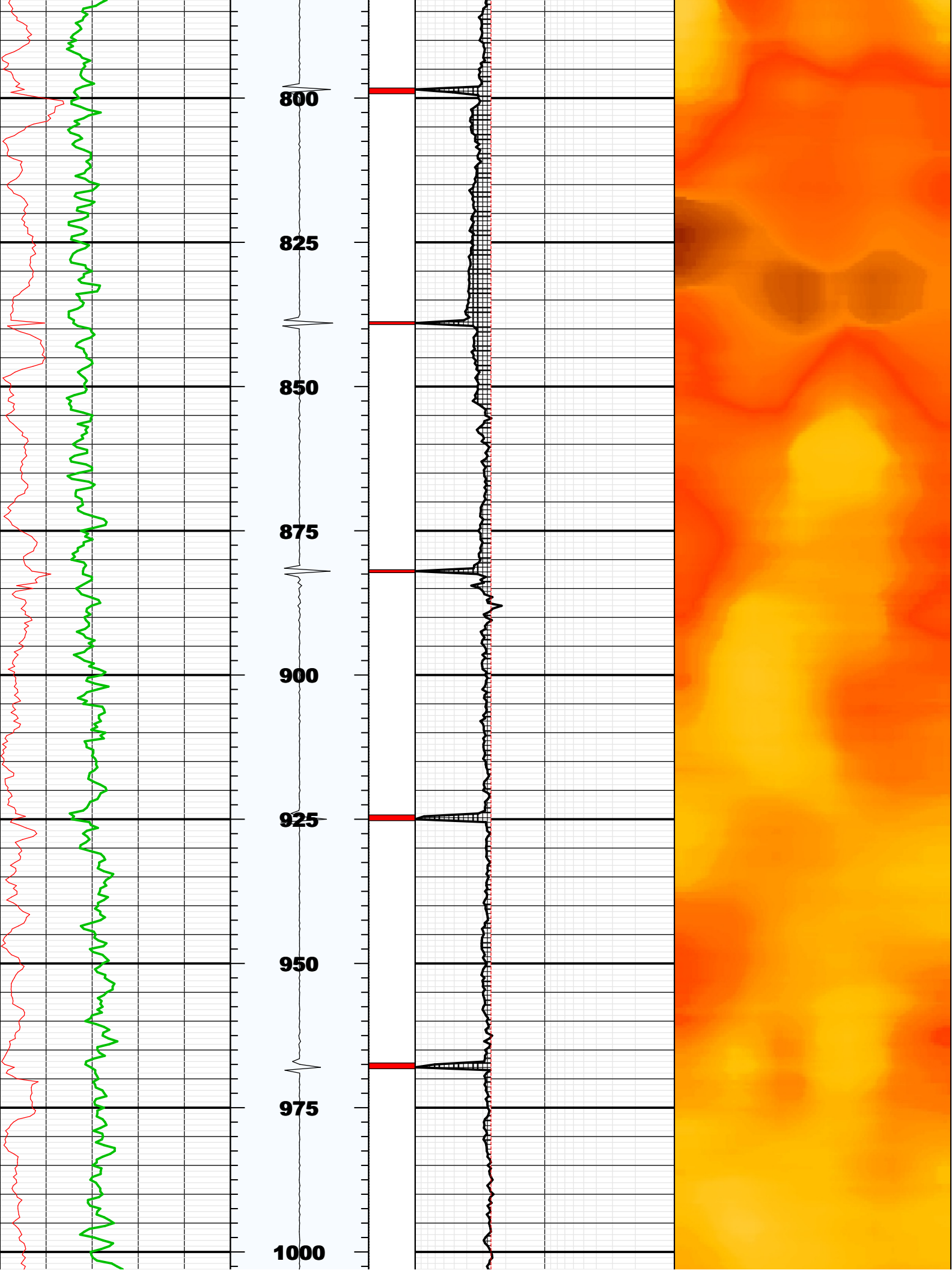
Company: Noble Energy Inc
Well: Wells Ranch AA35-62-1AHNC
Field: Wattenberg

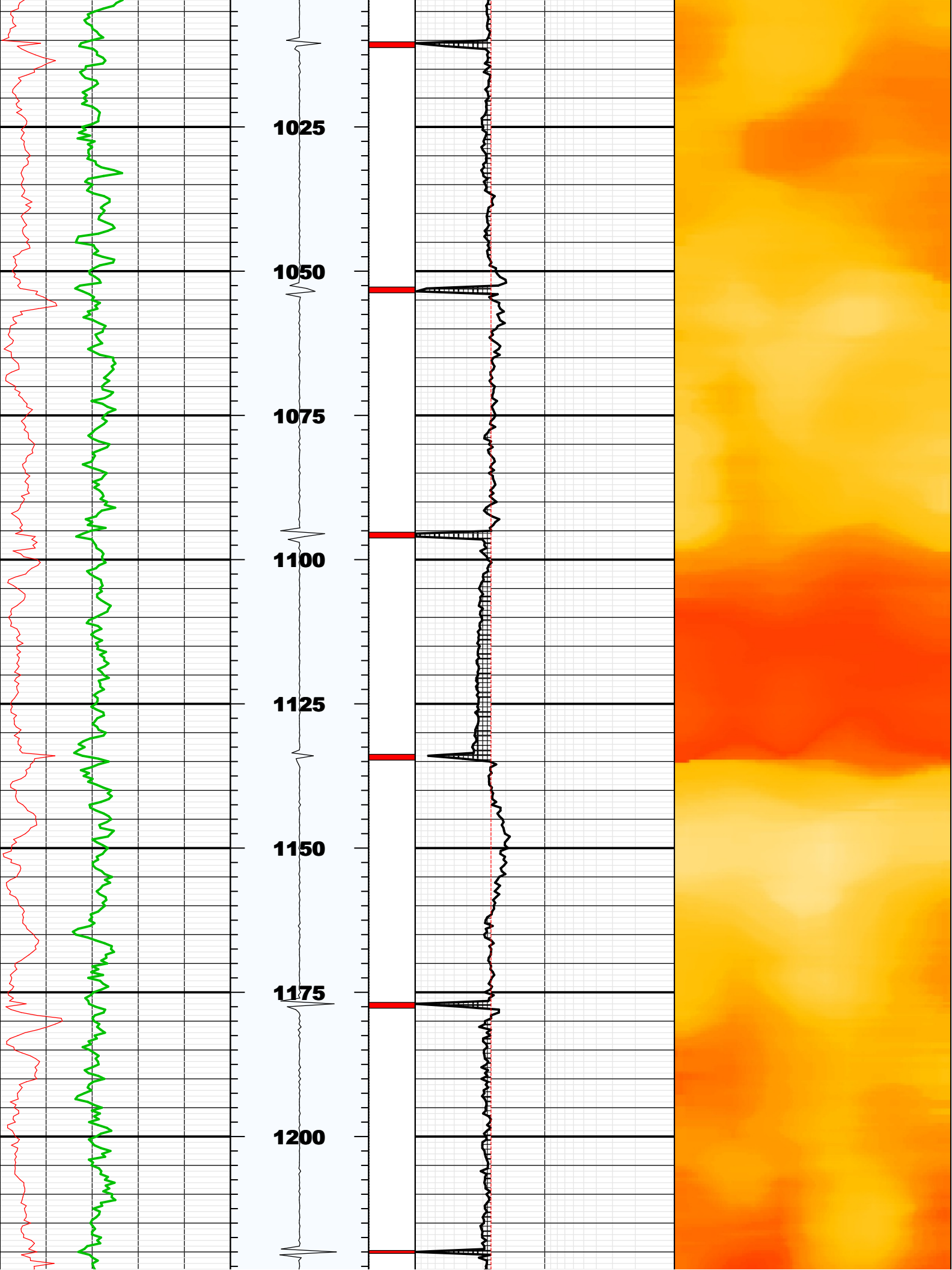


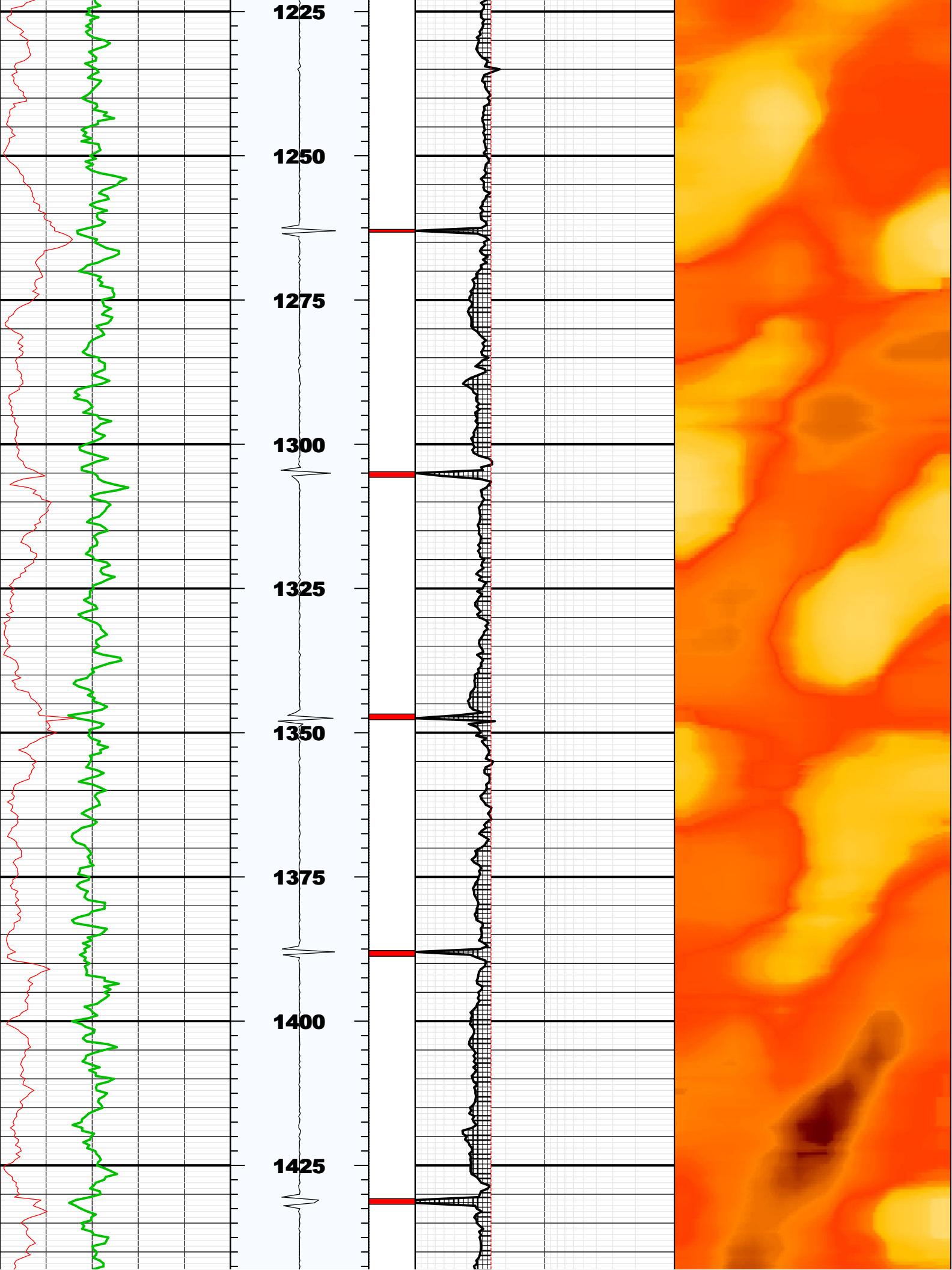


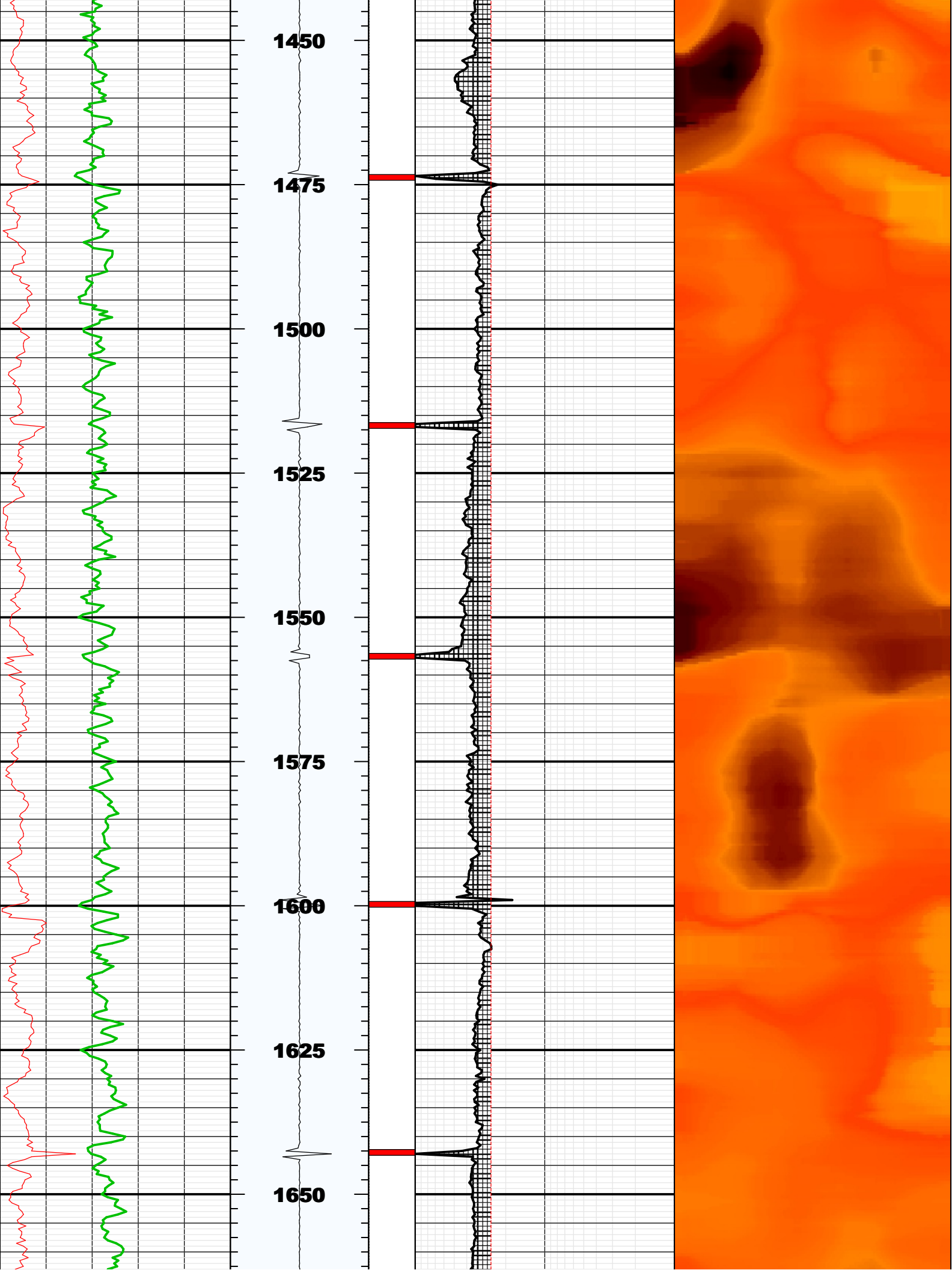


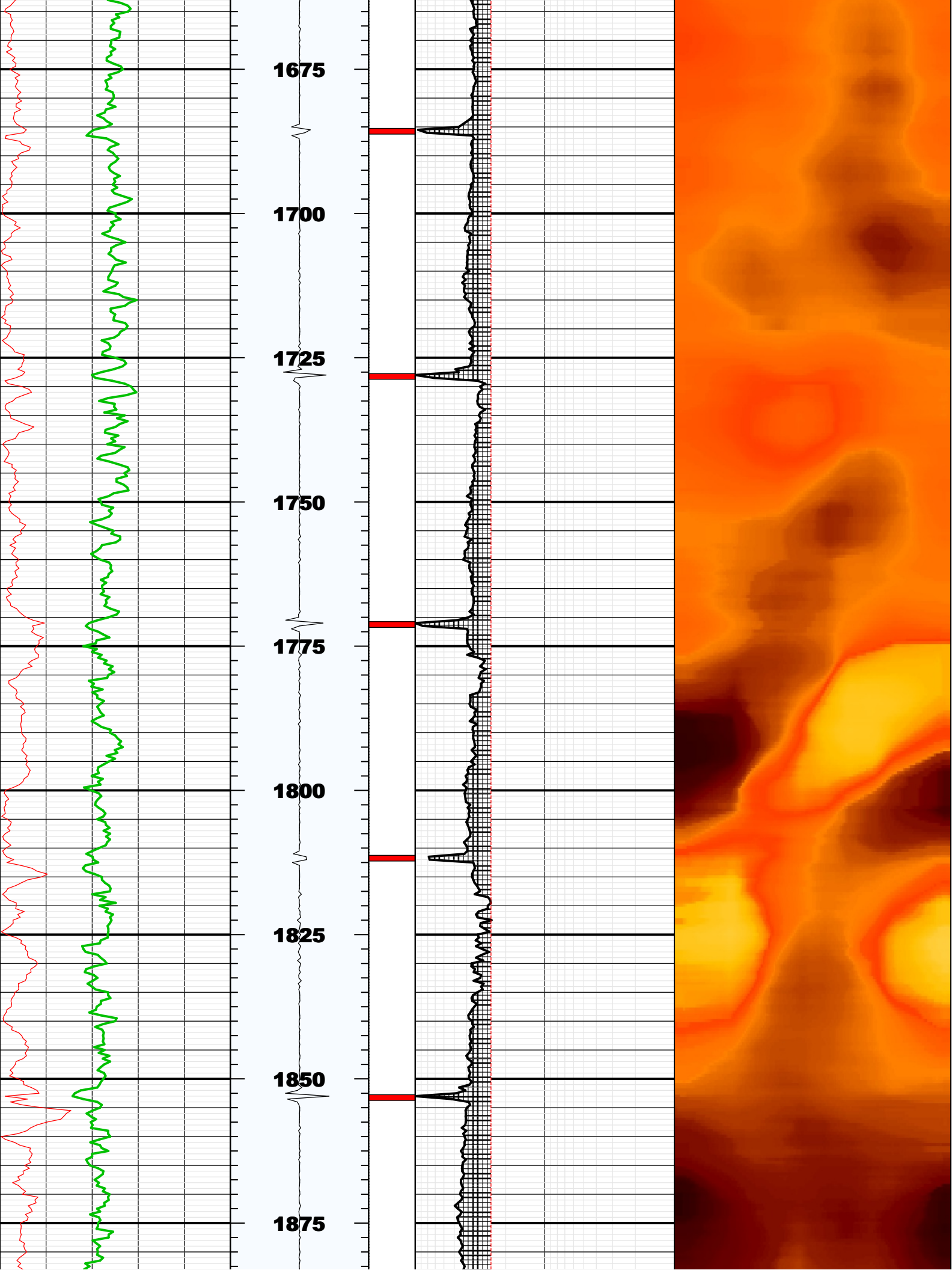


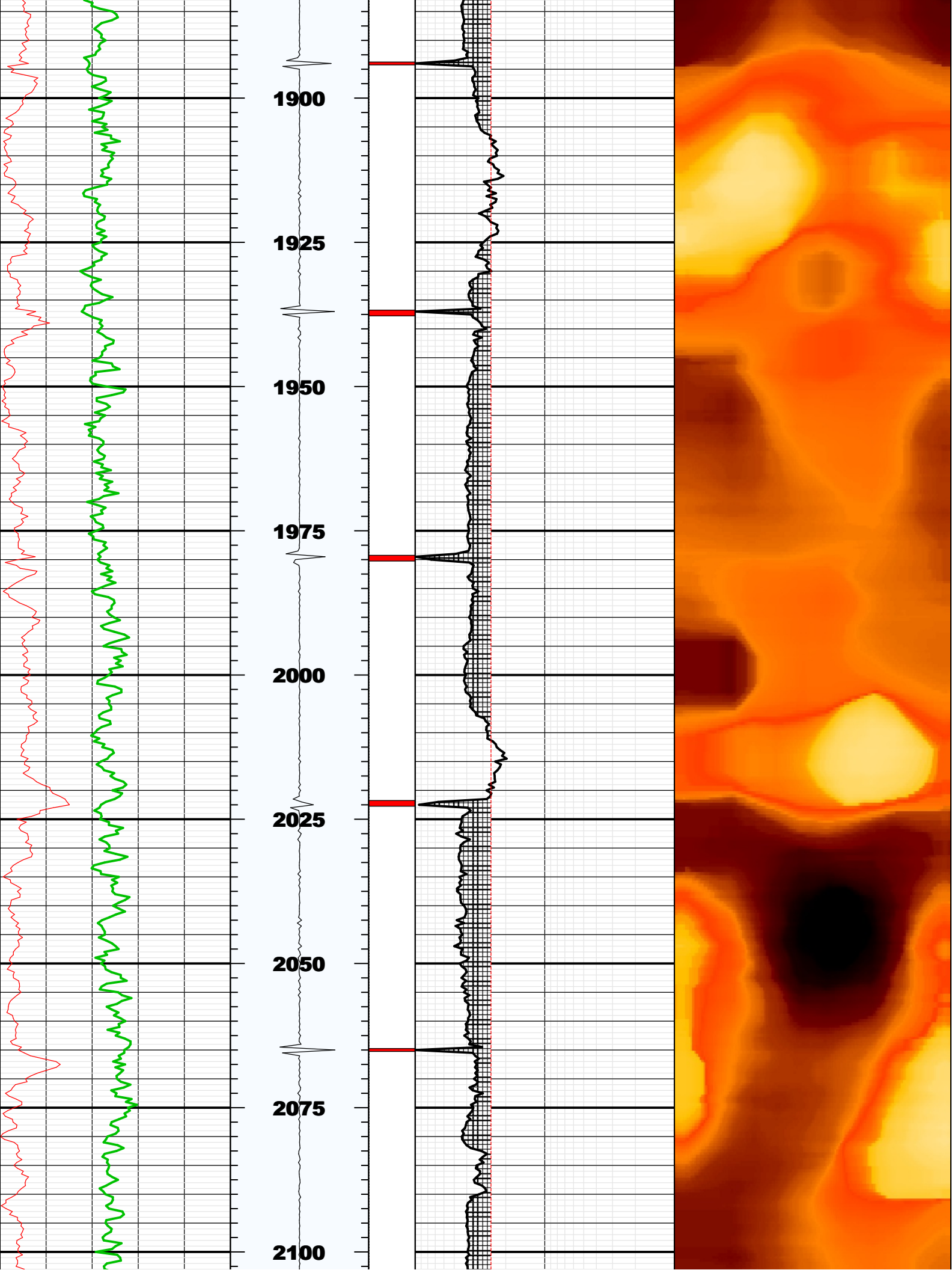


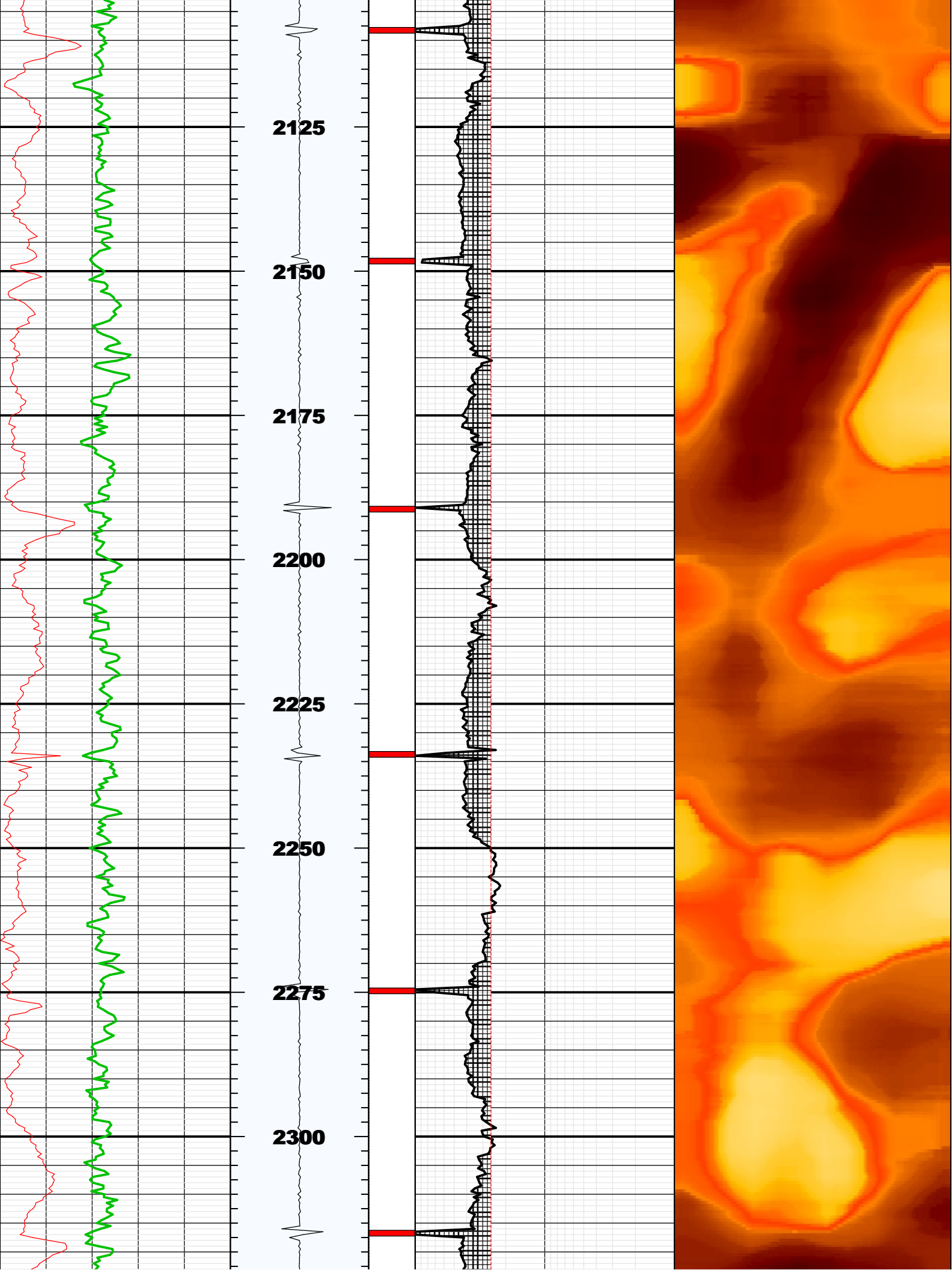


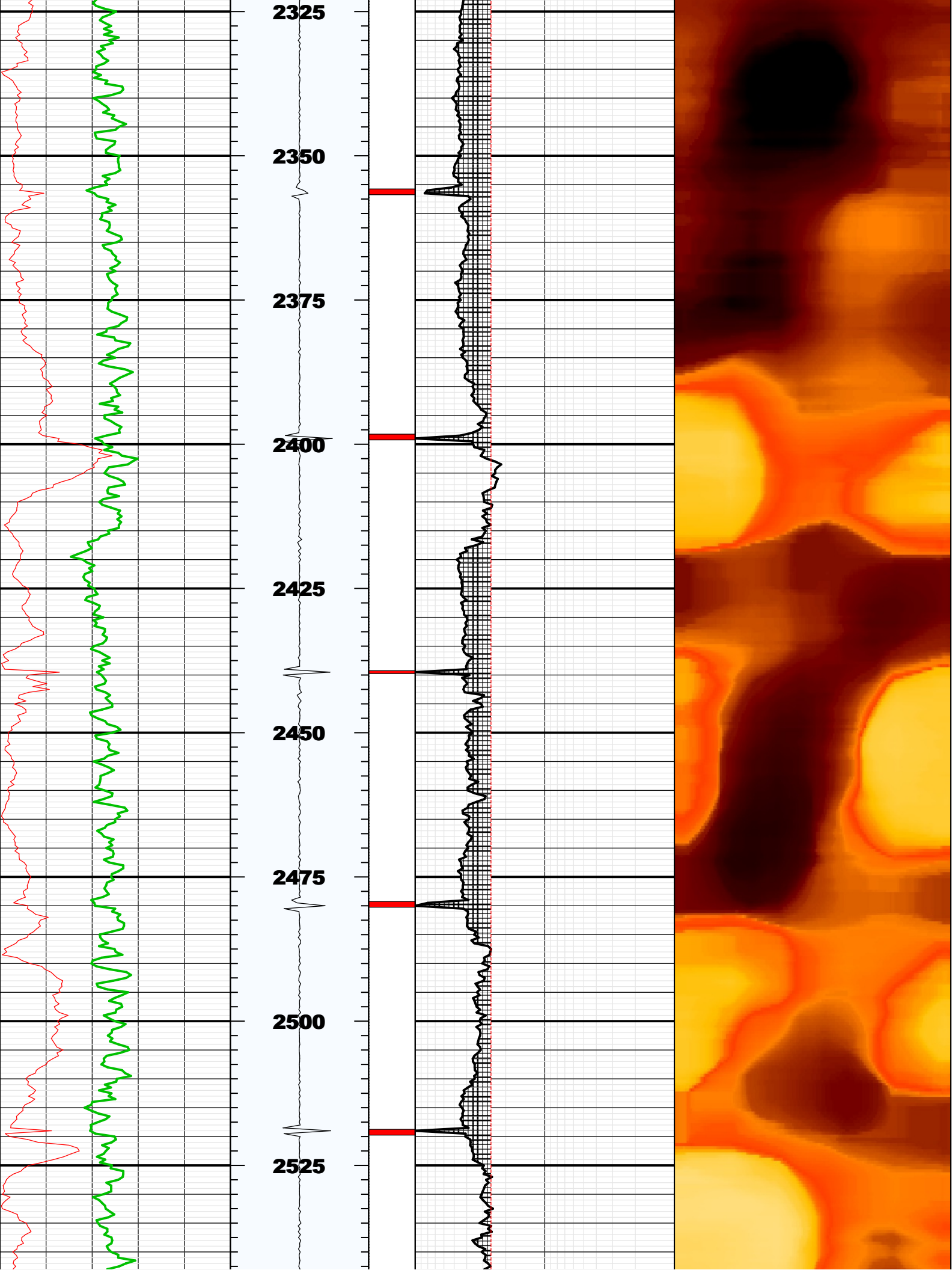


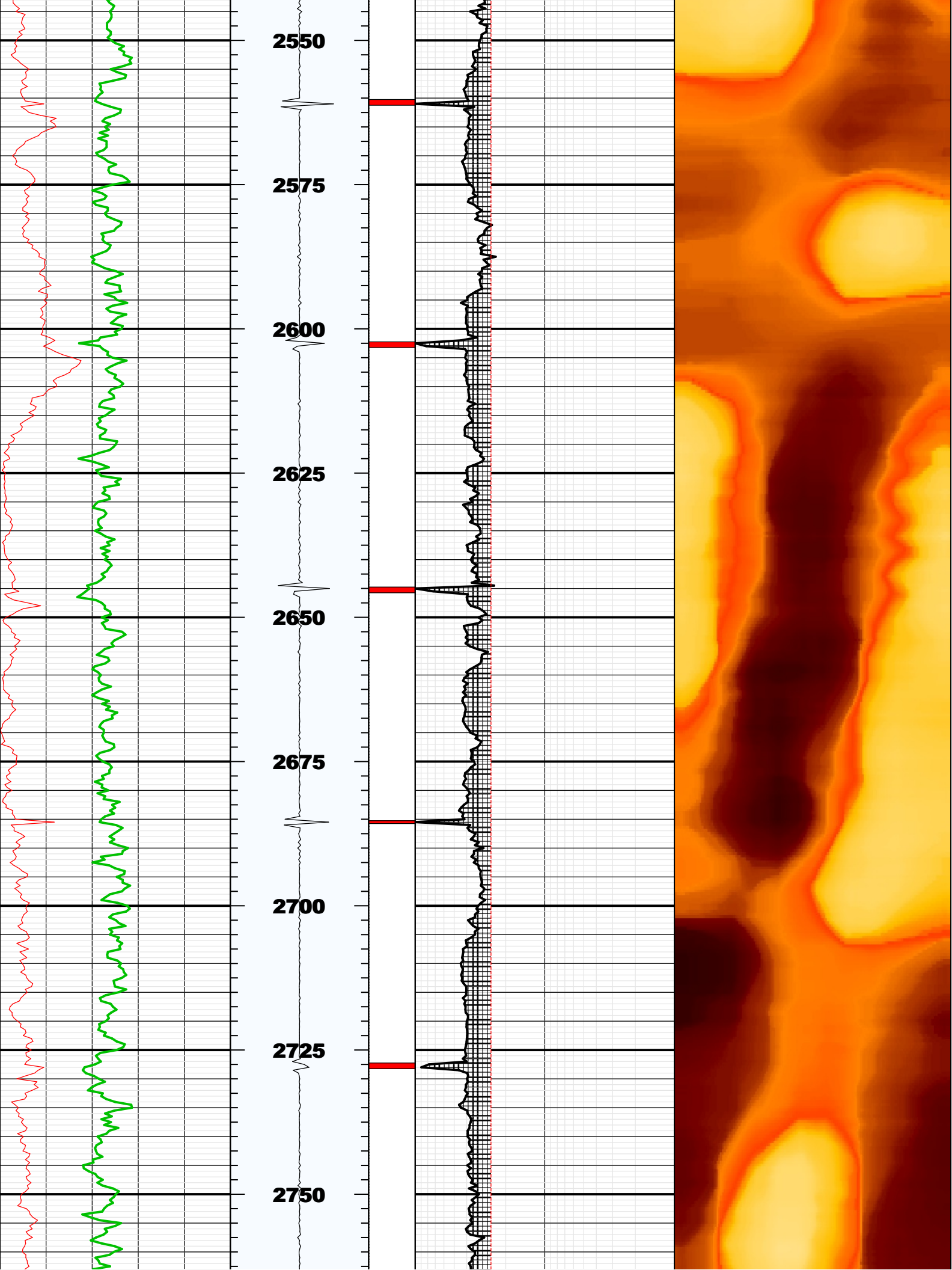


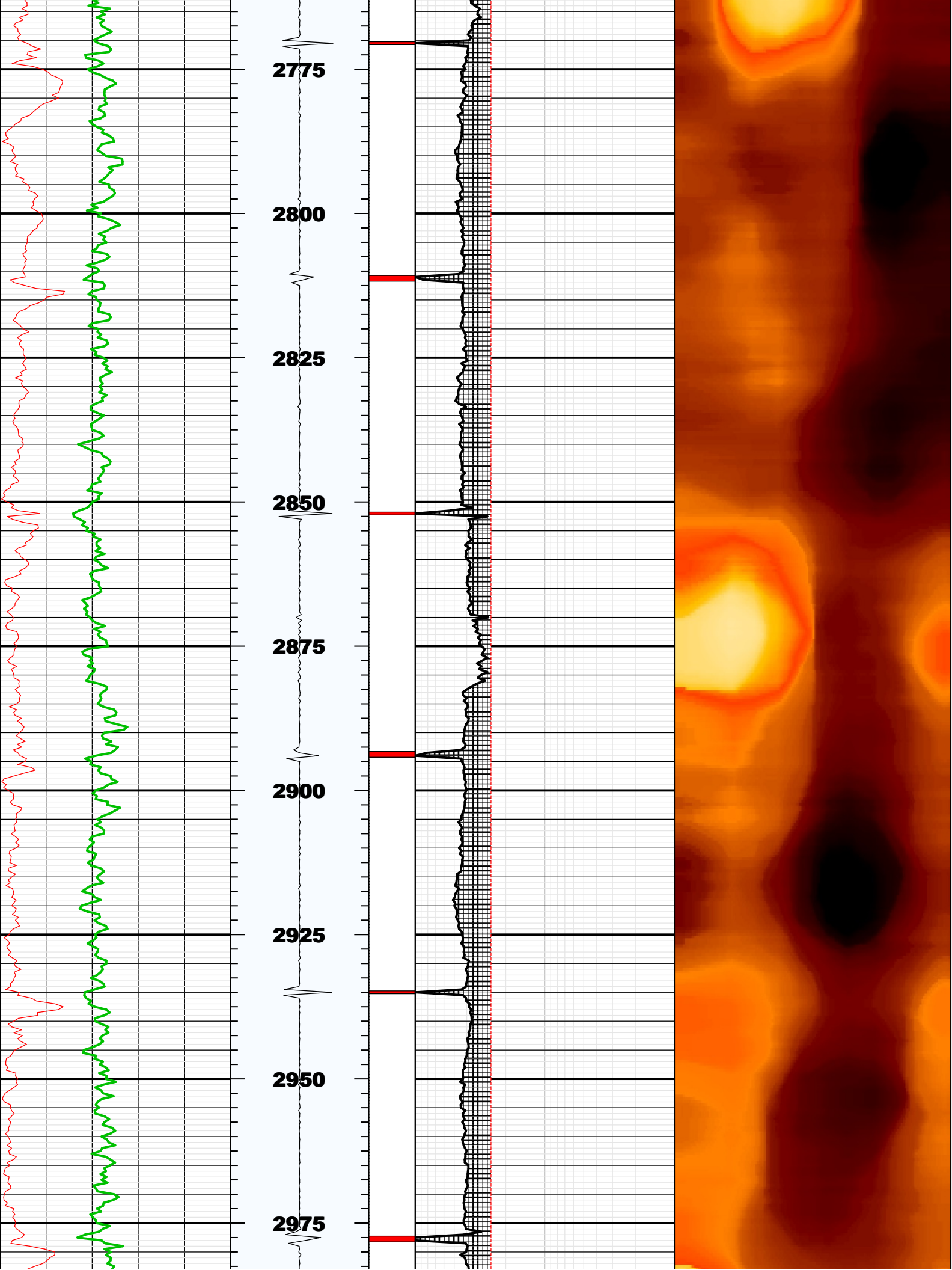


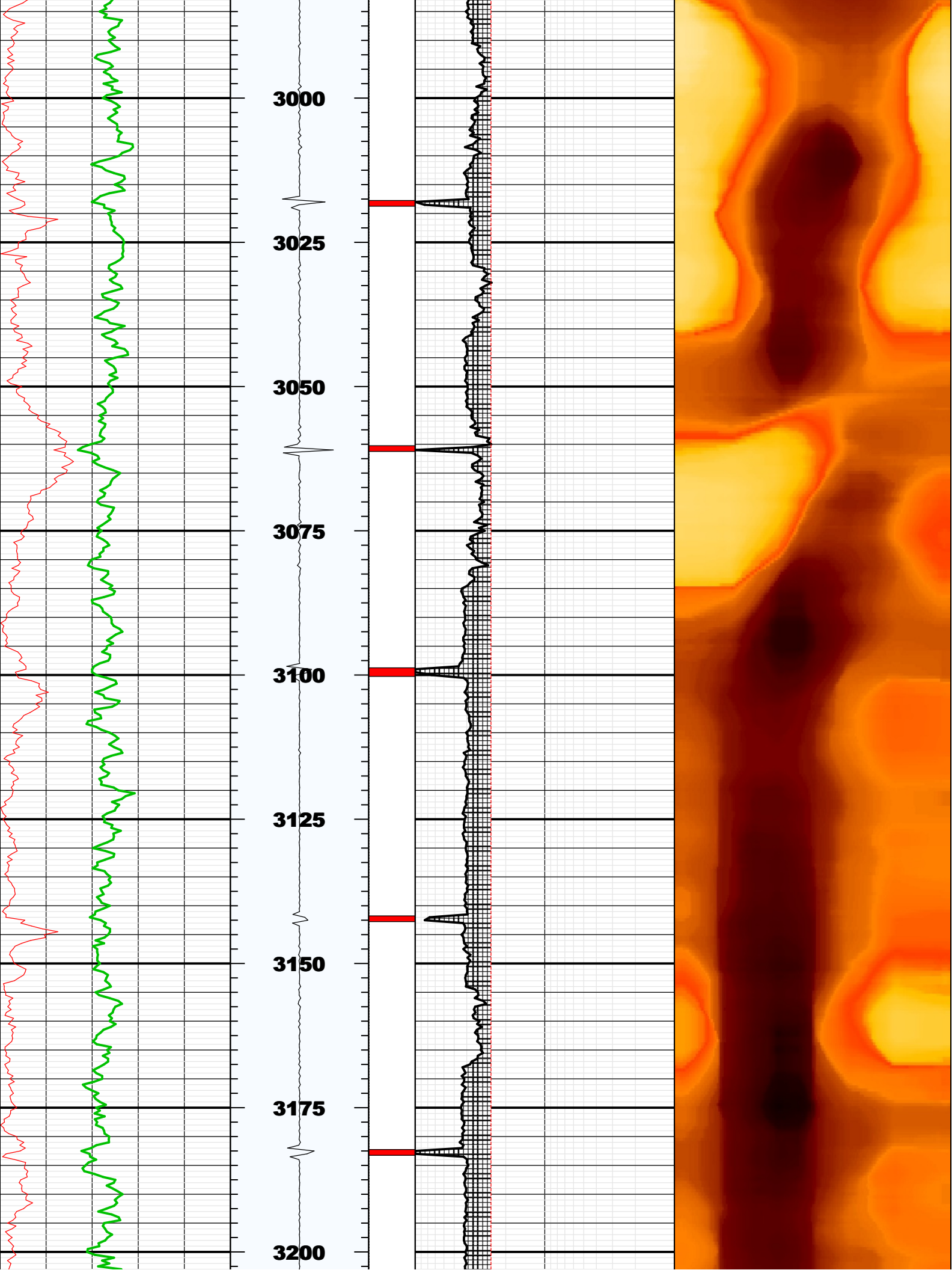


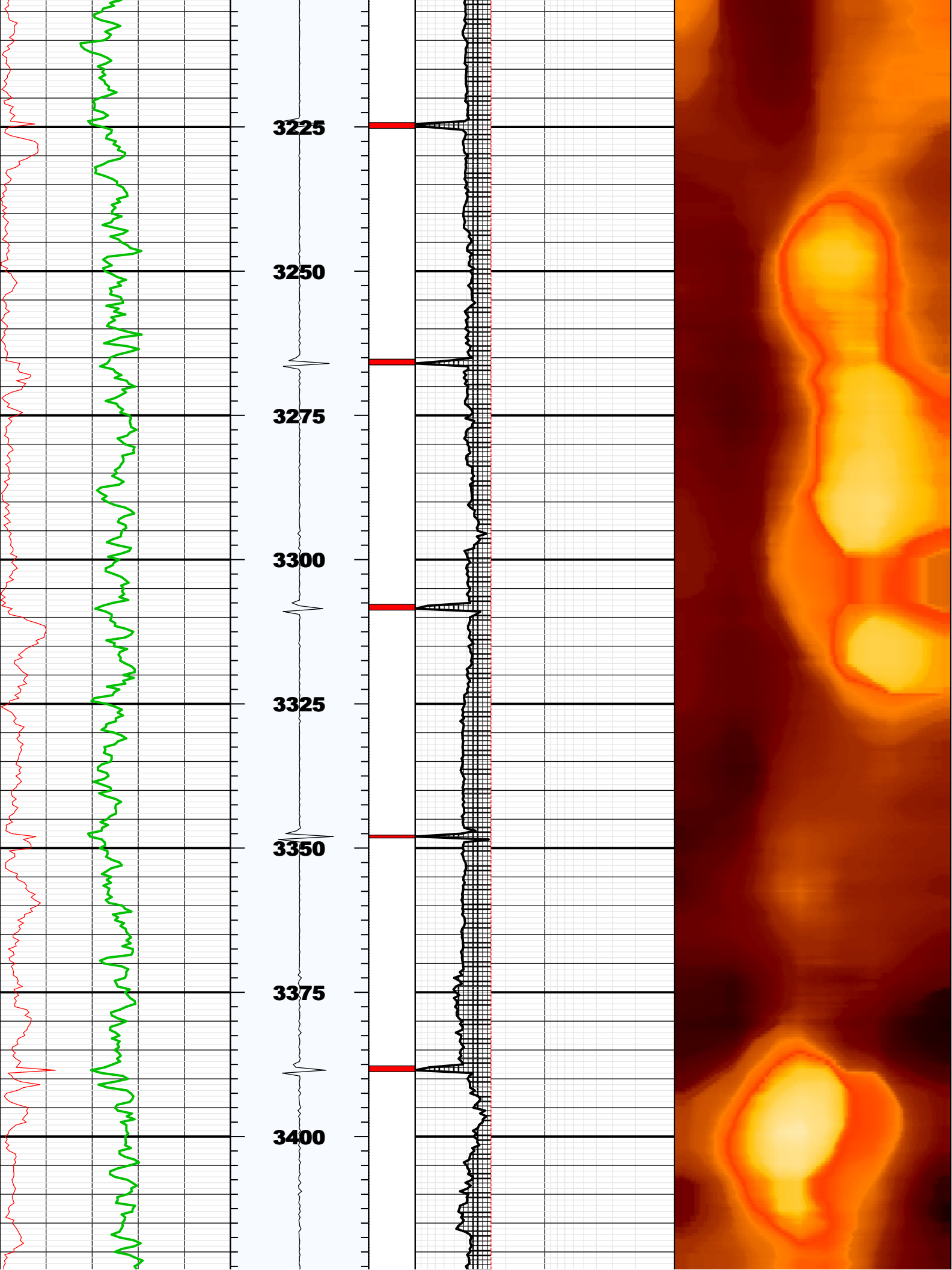


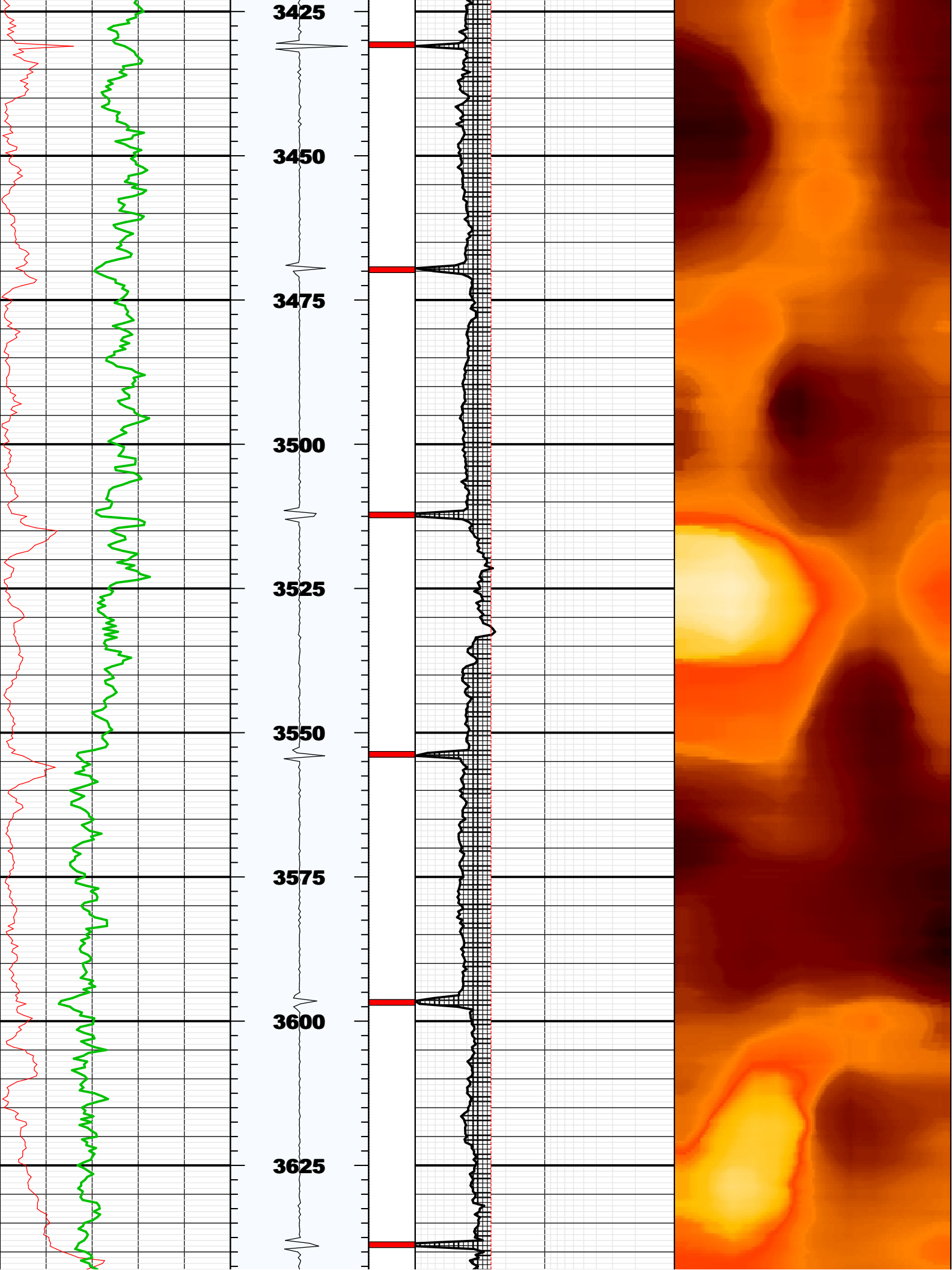


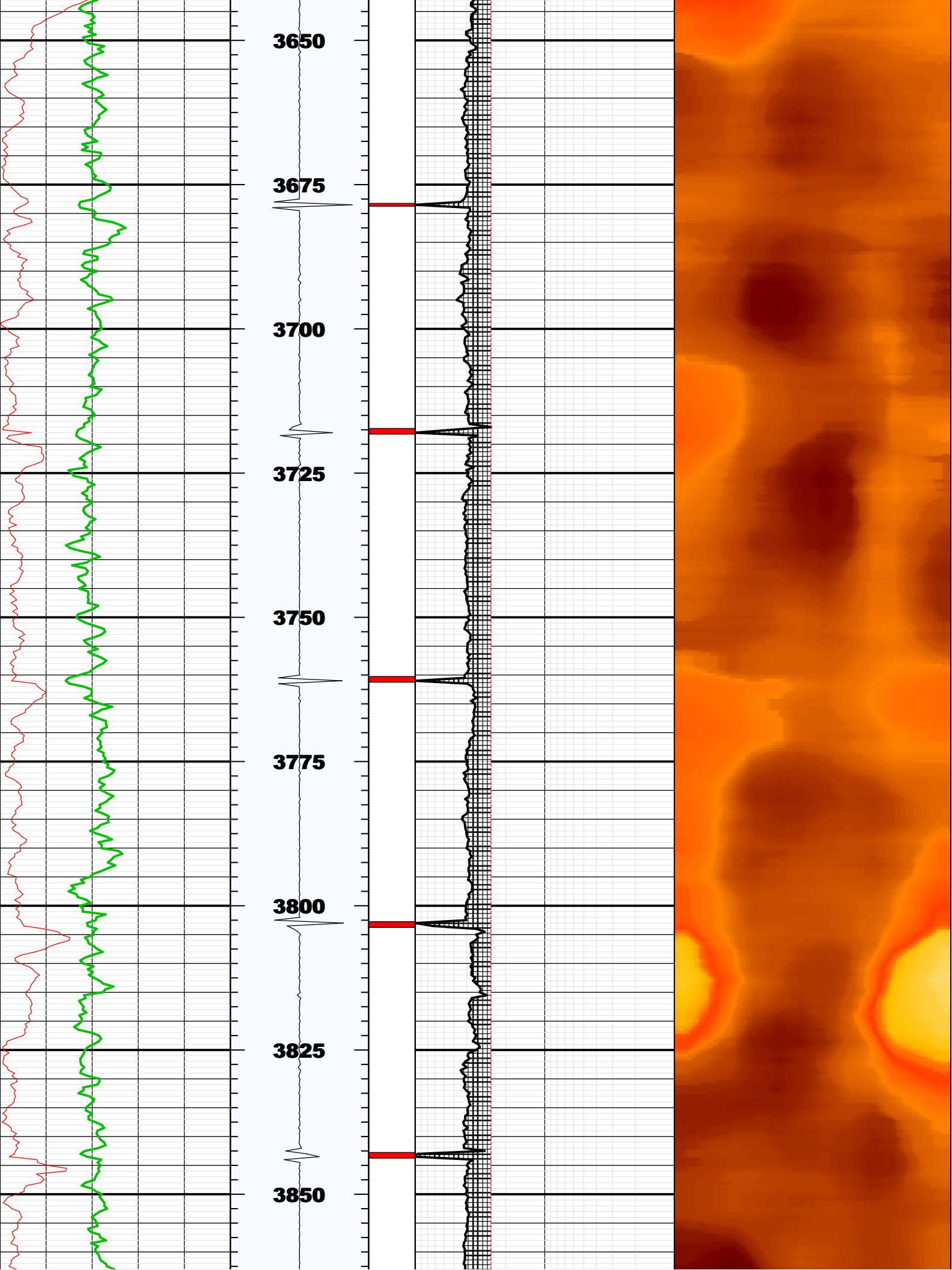


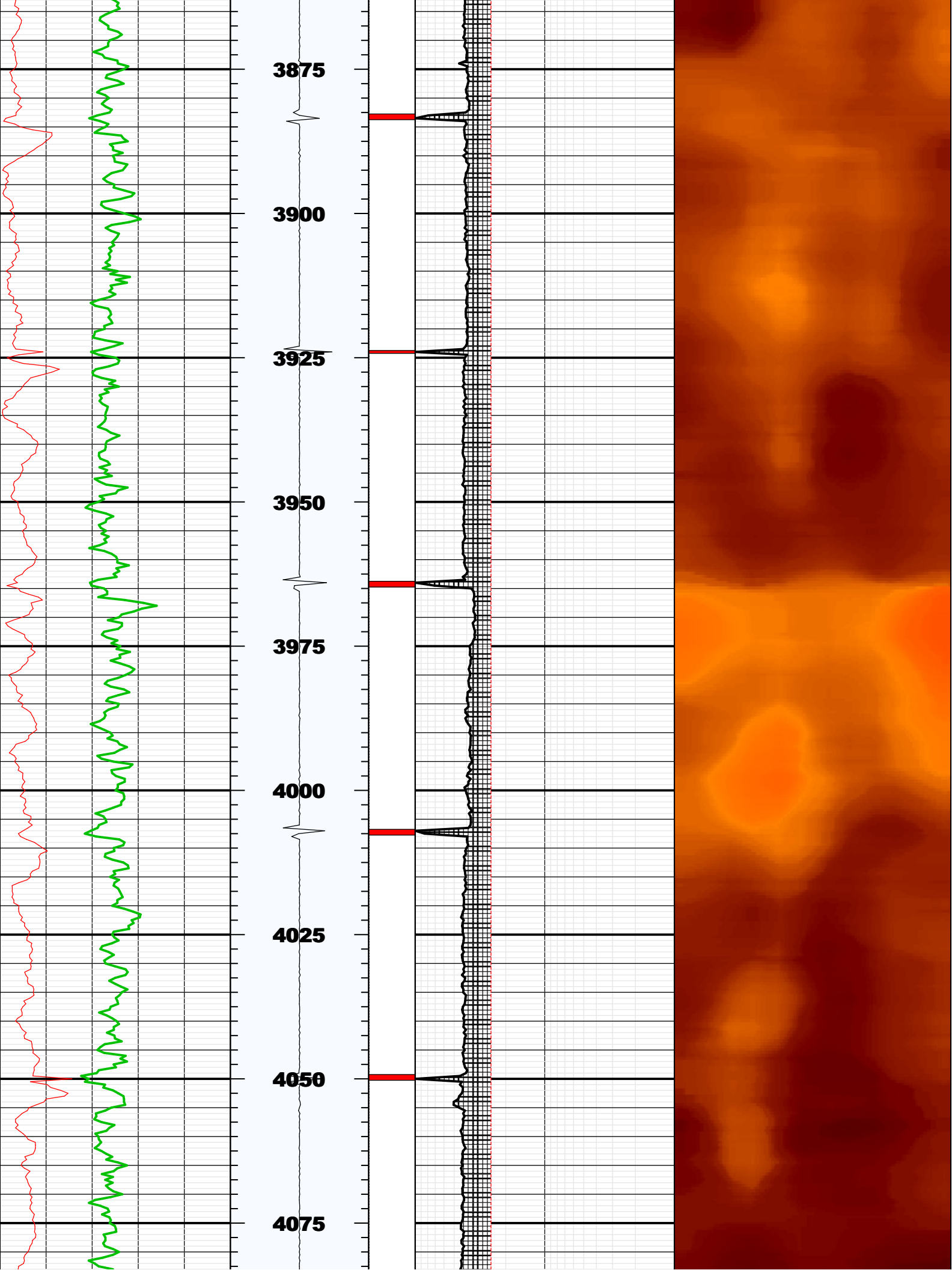


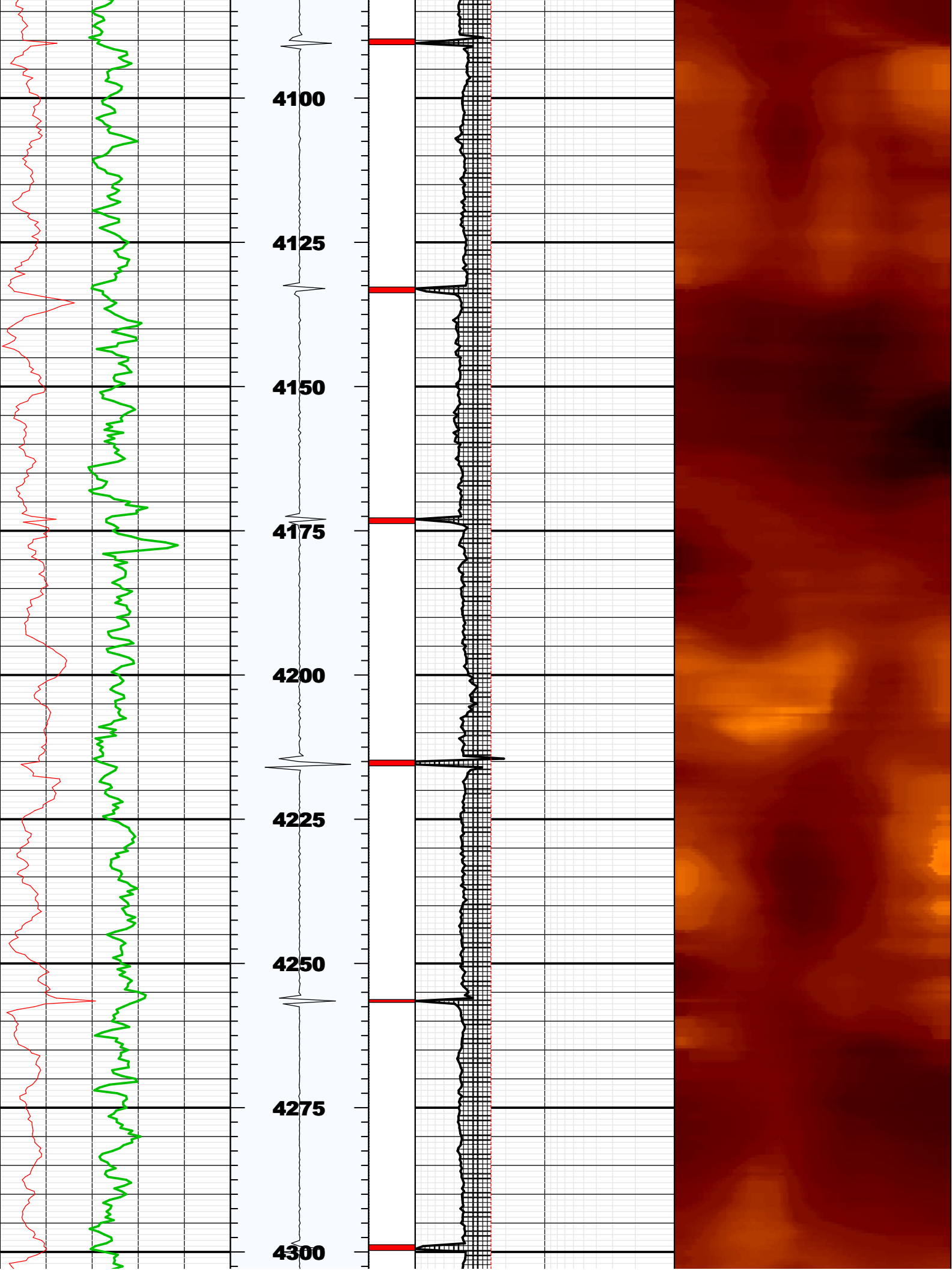


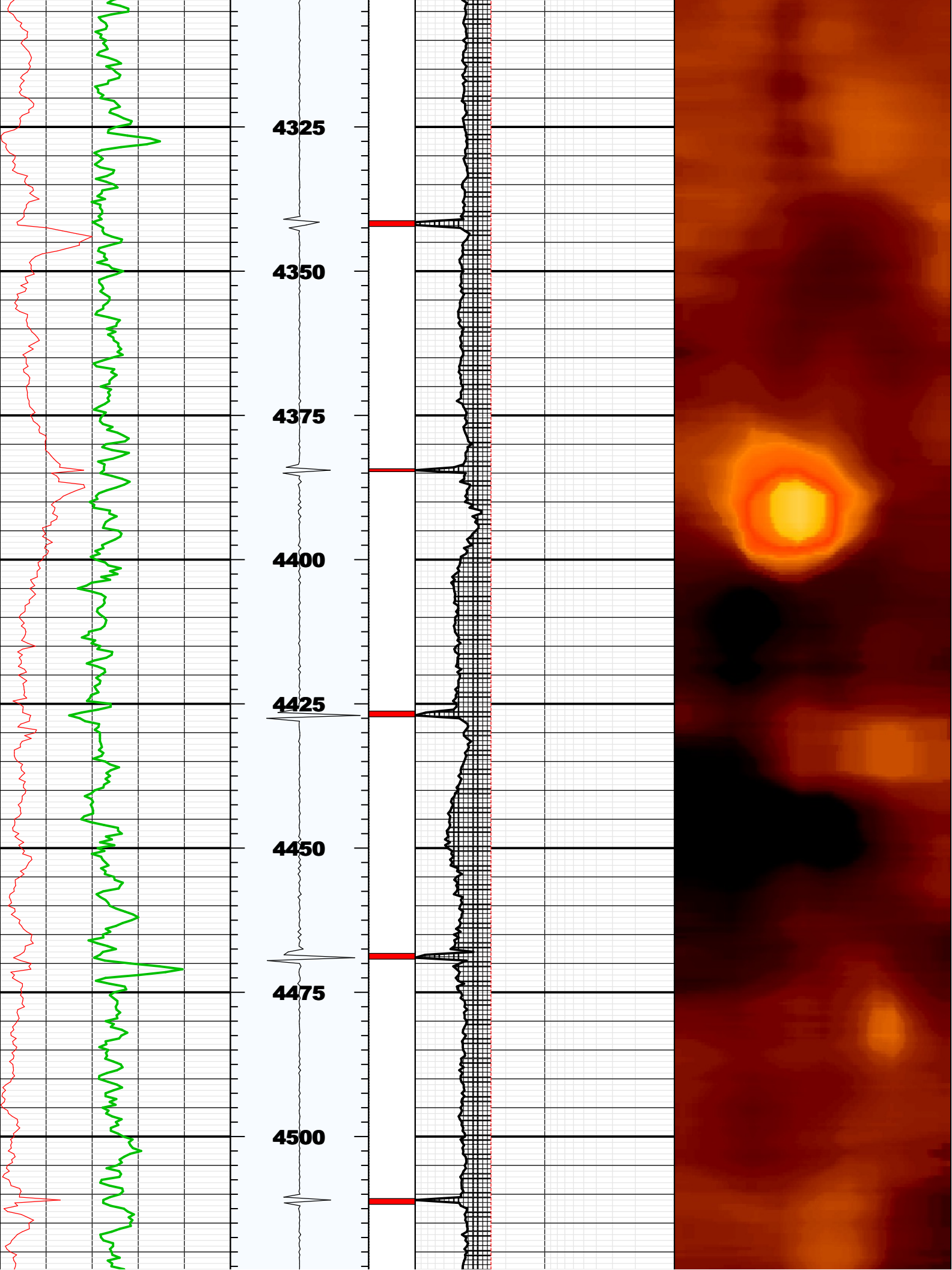


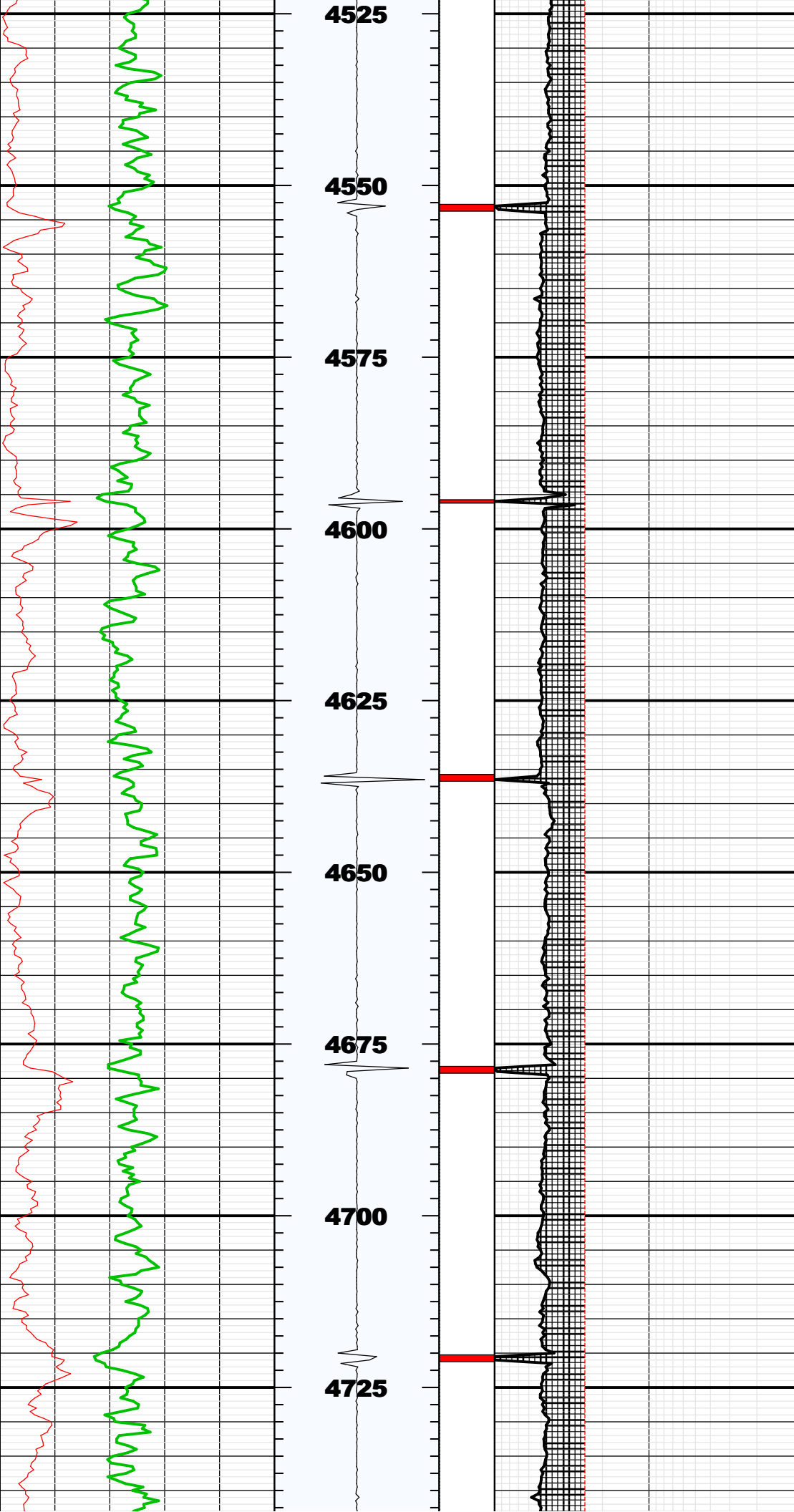


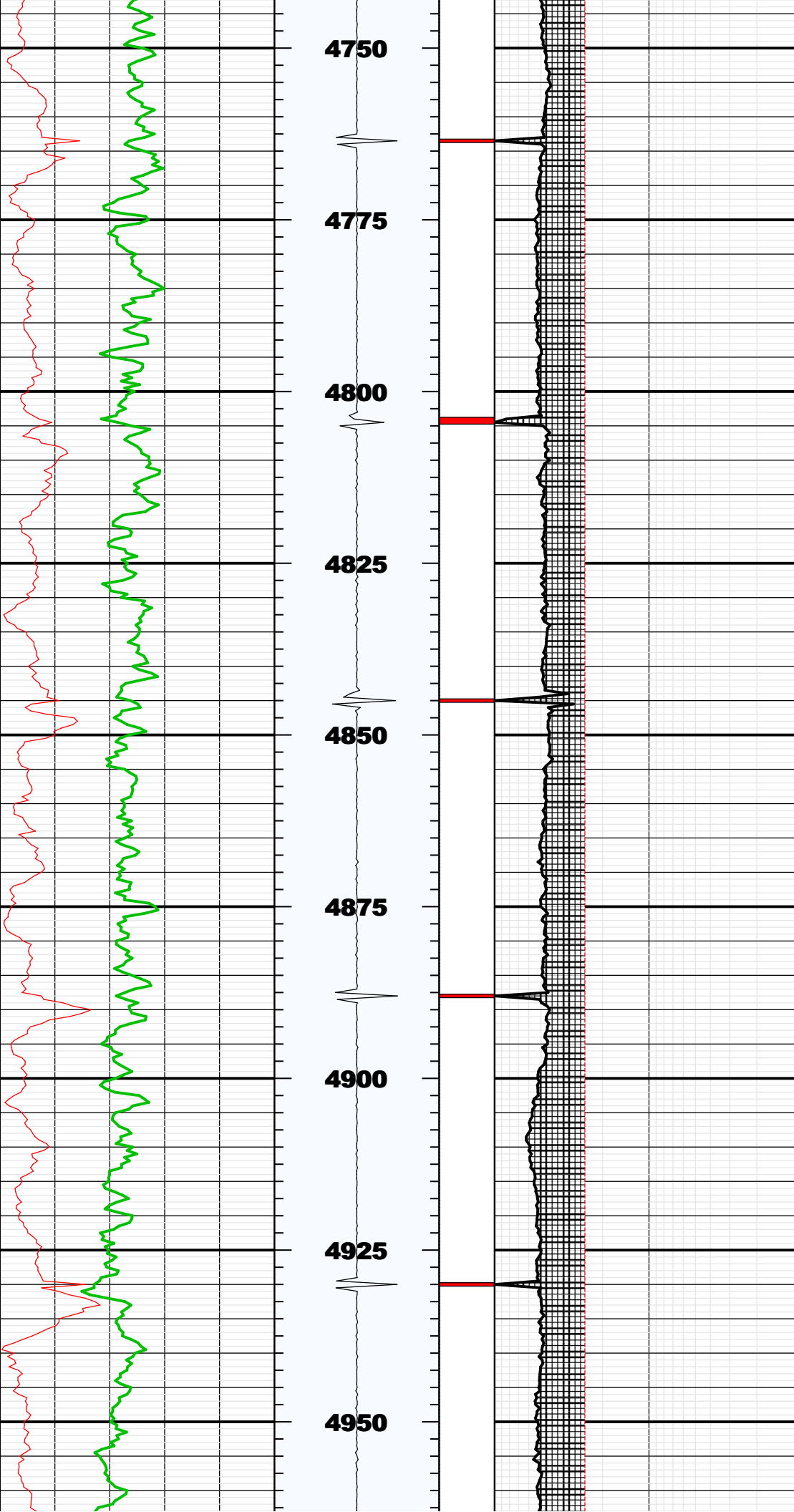


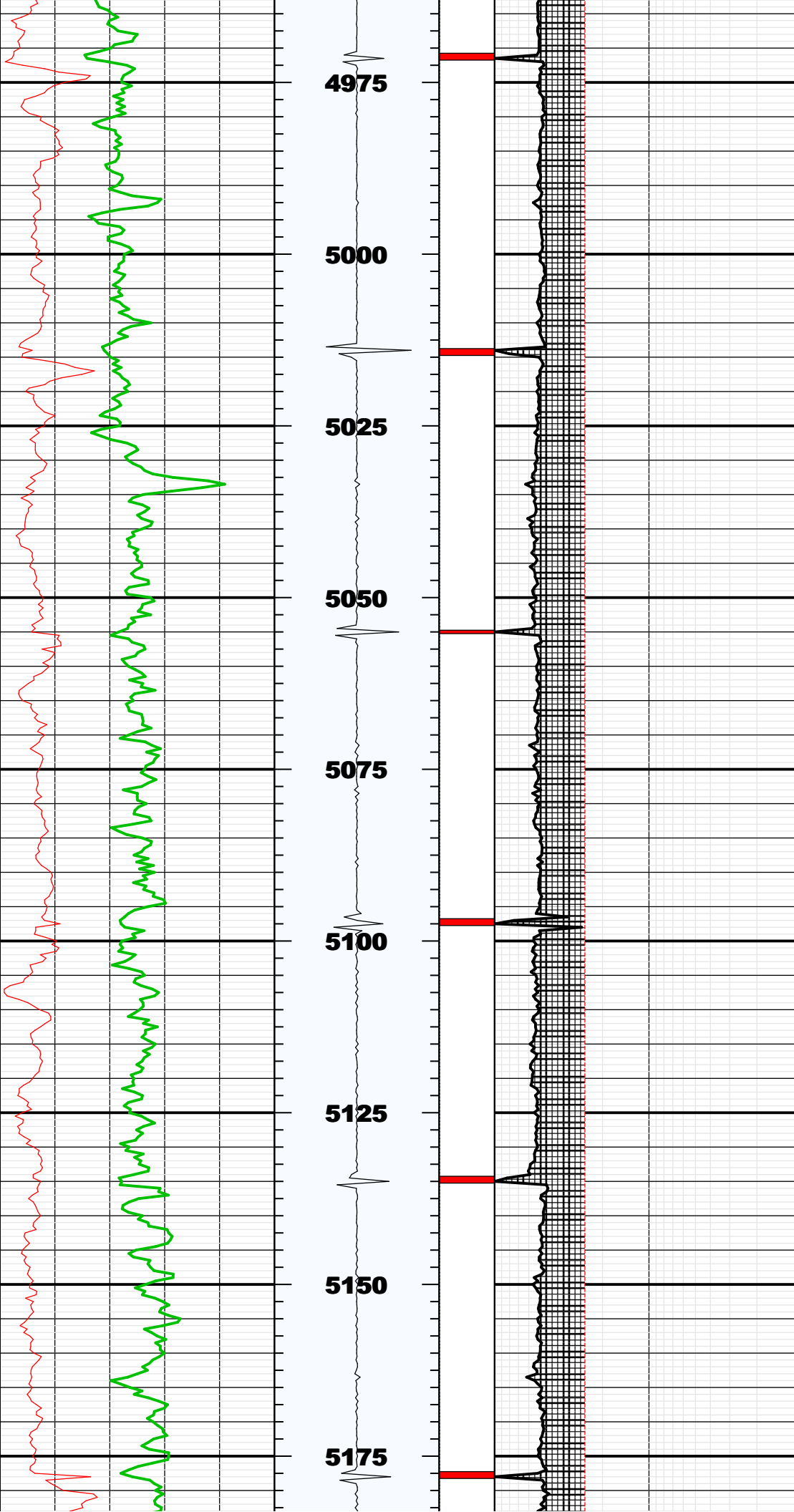


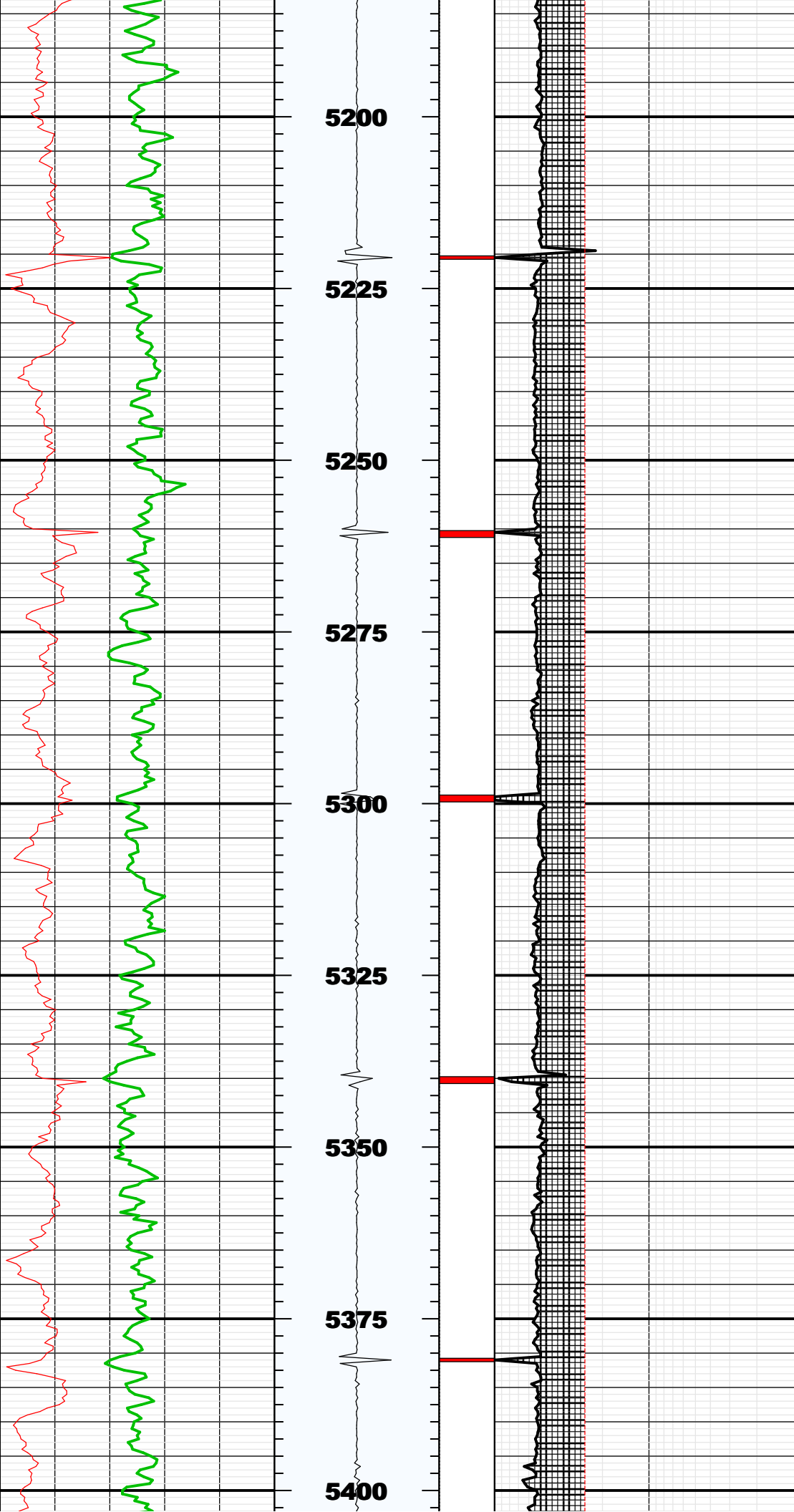


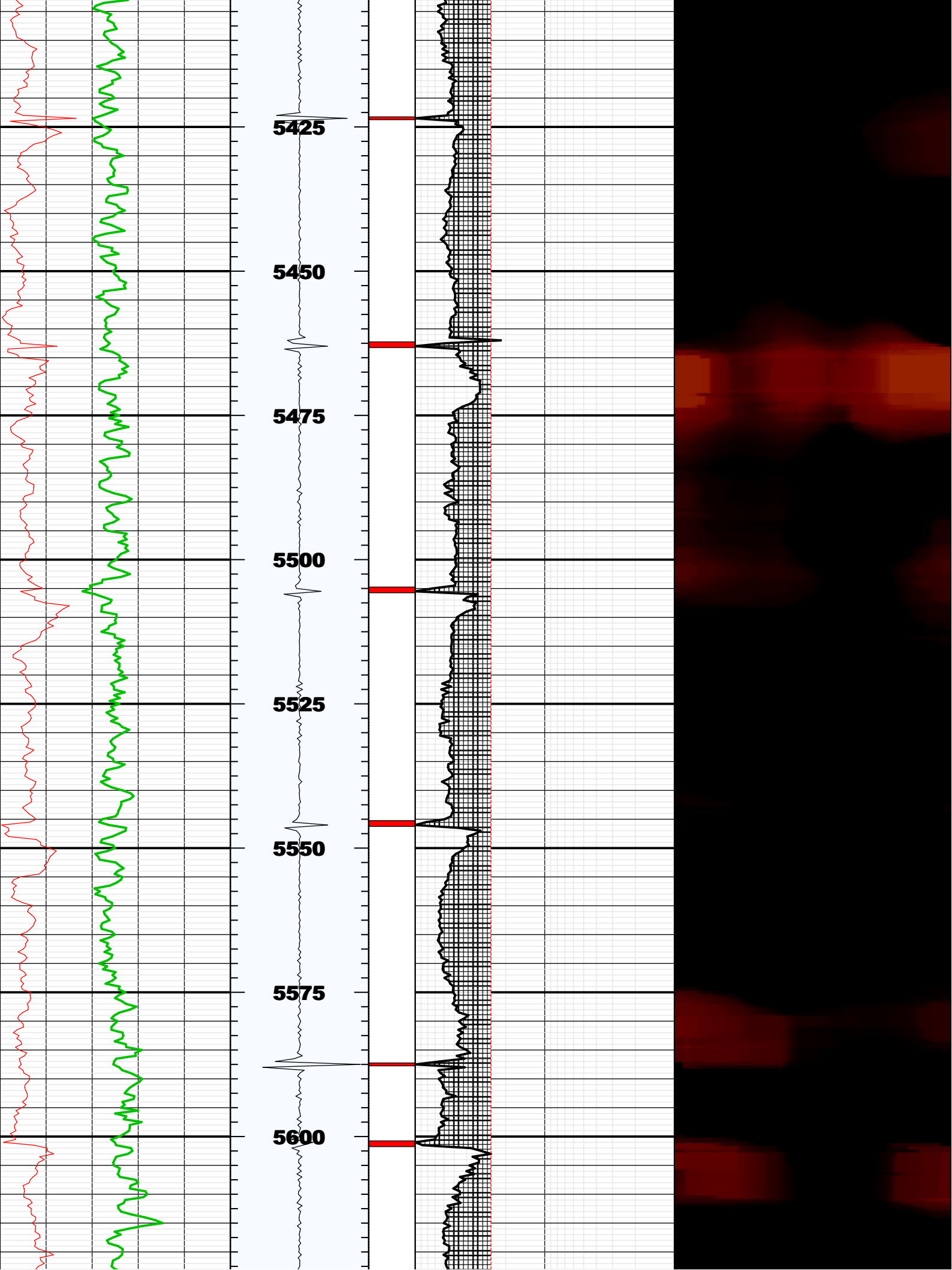


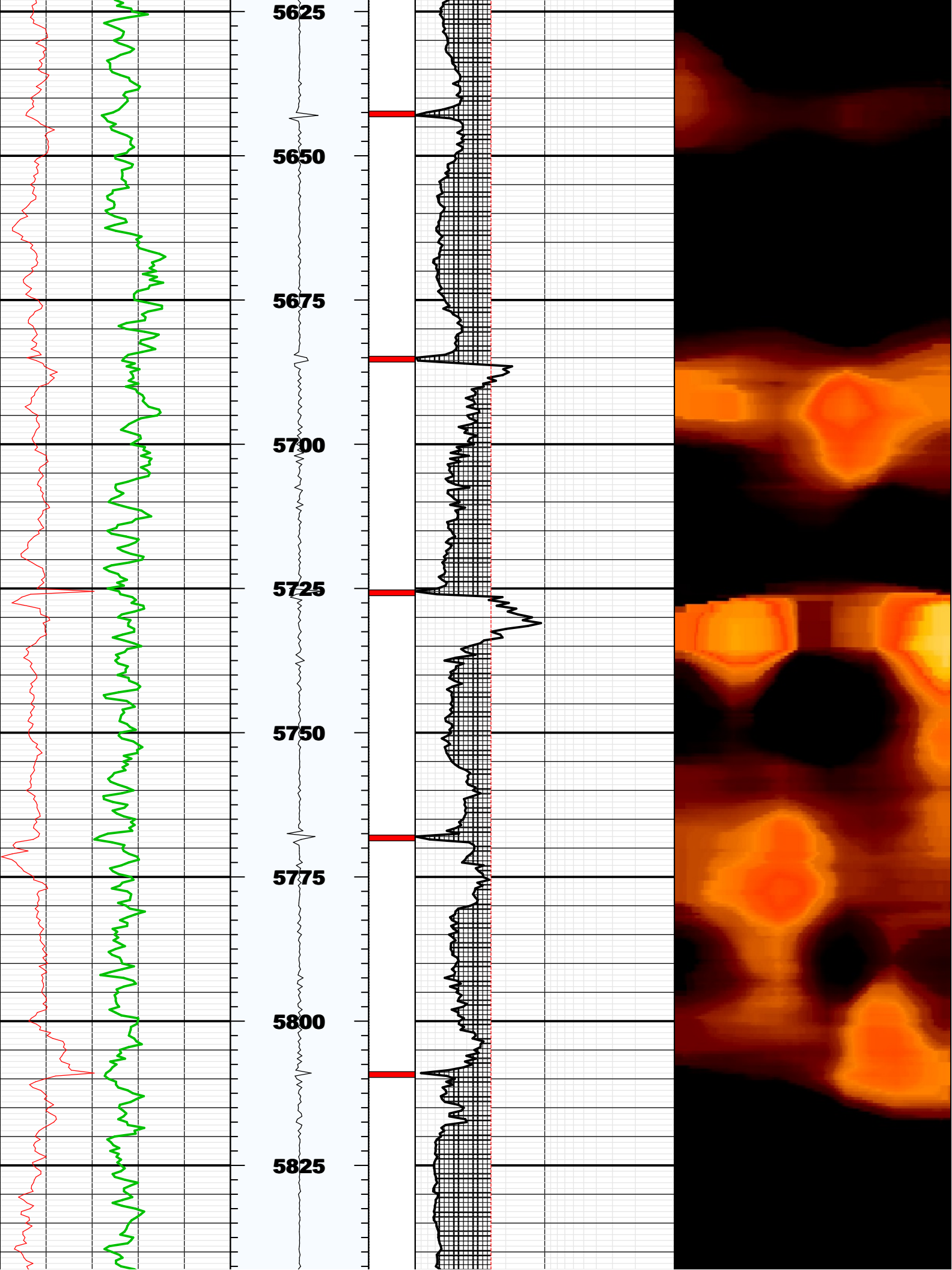


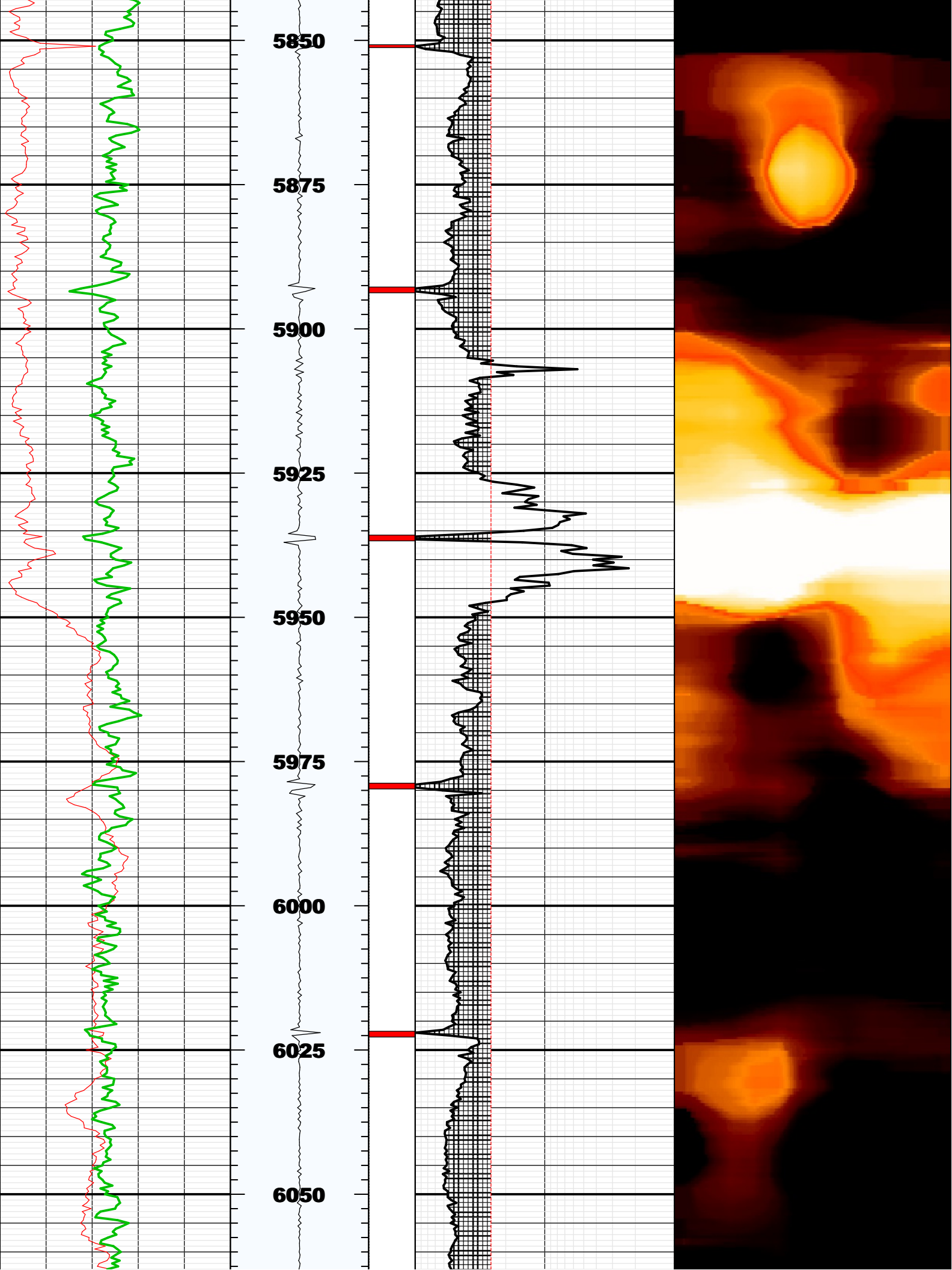


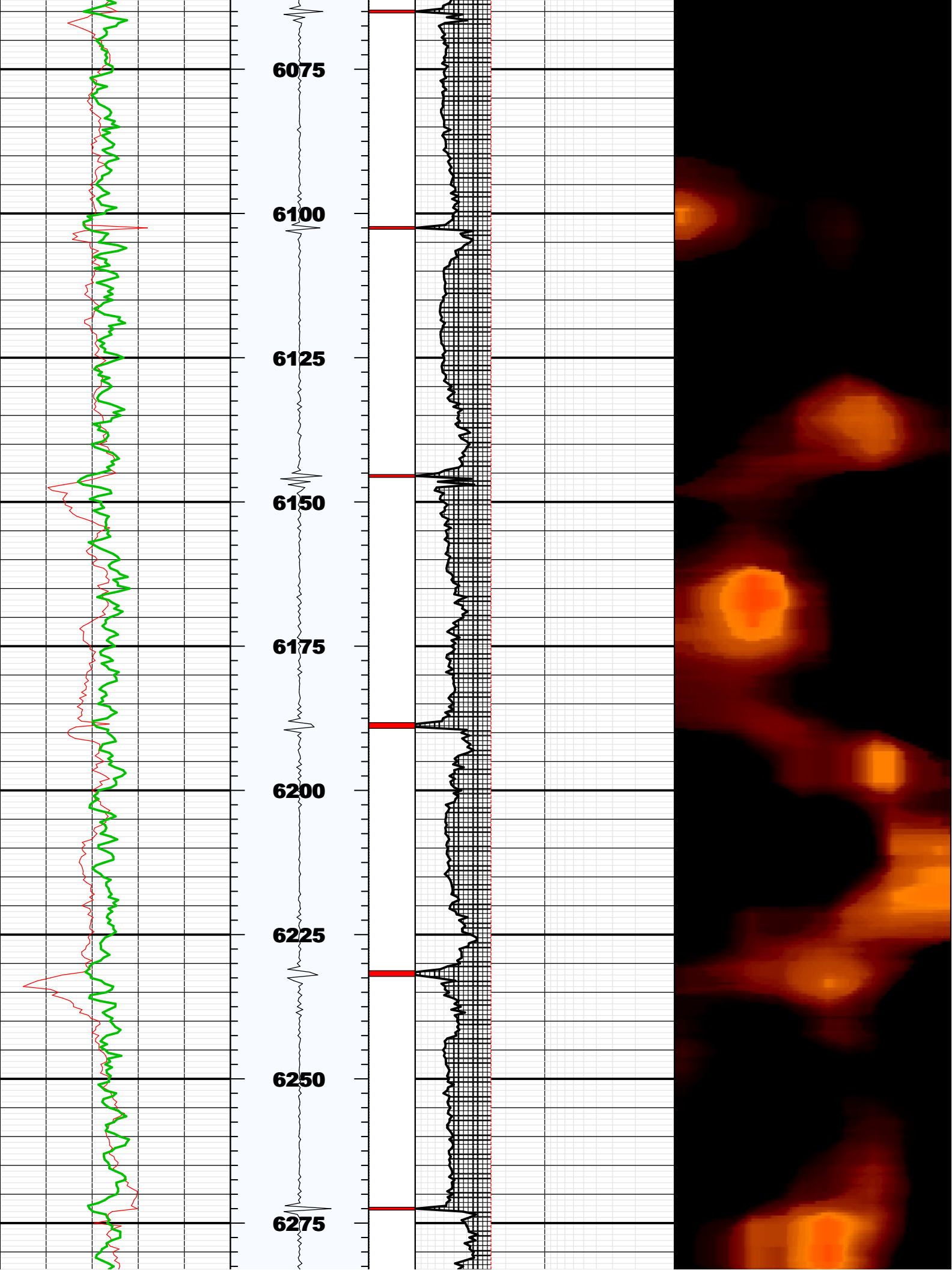


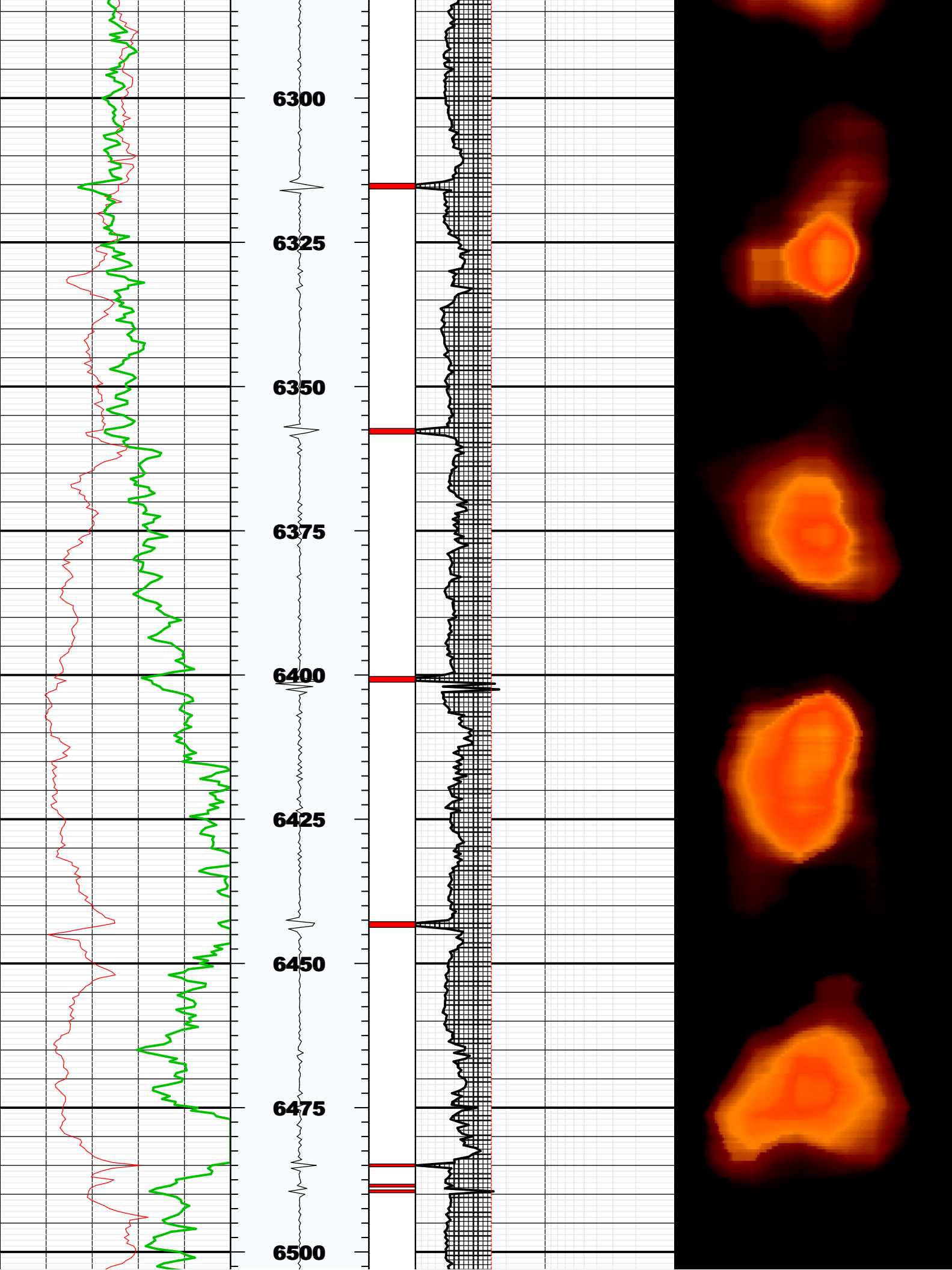


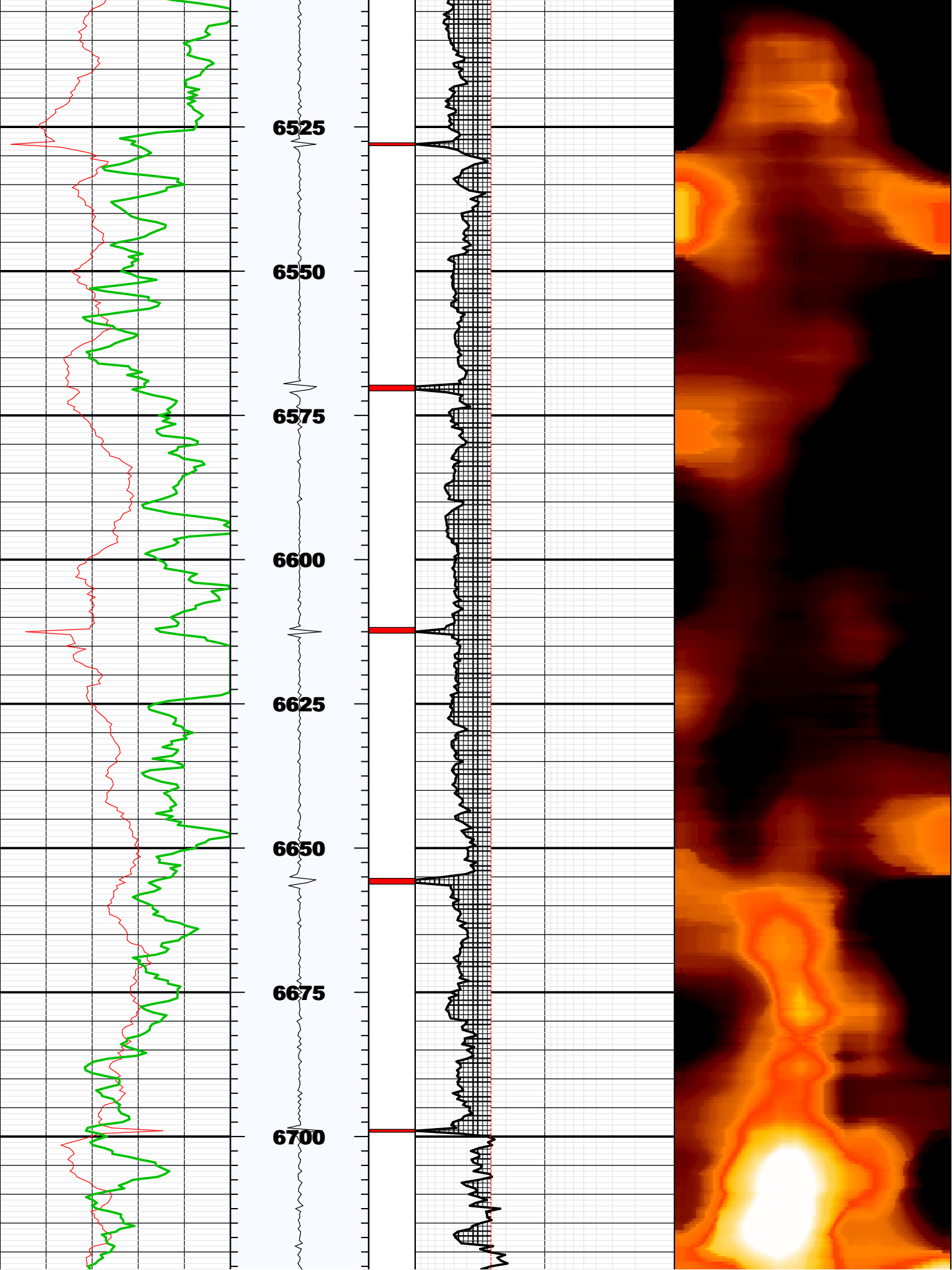


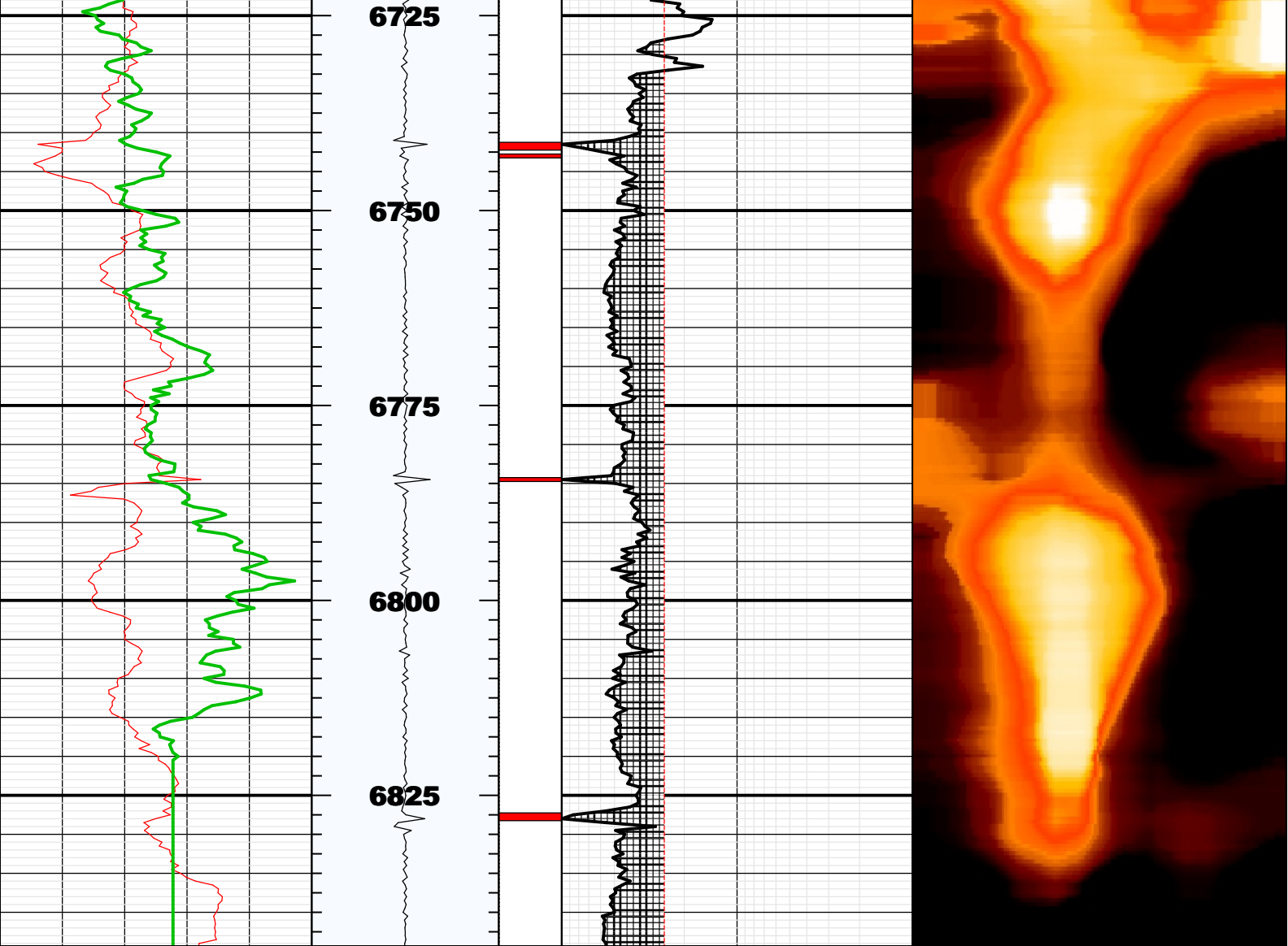








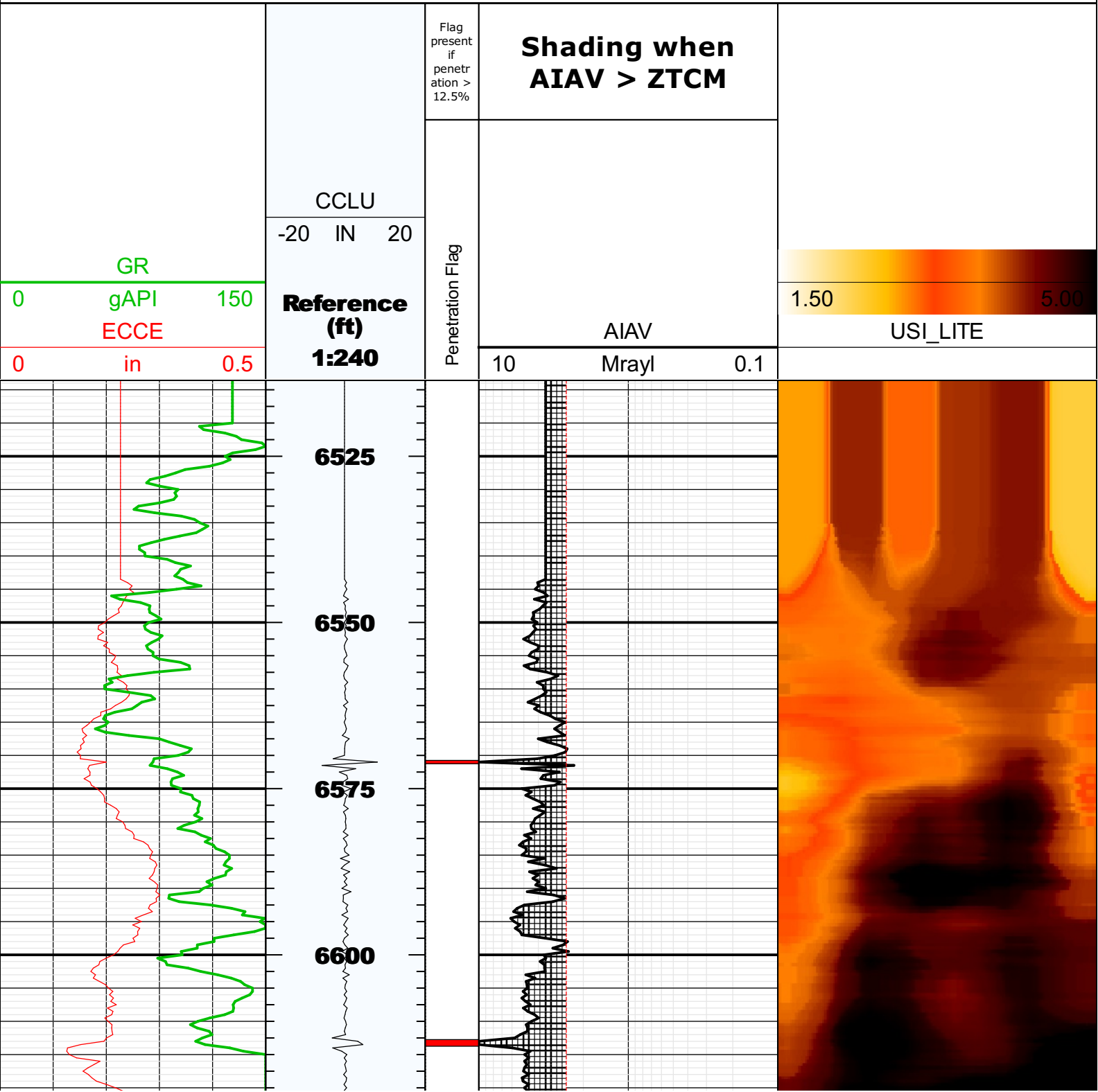


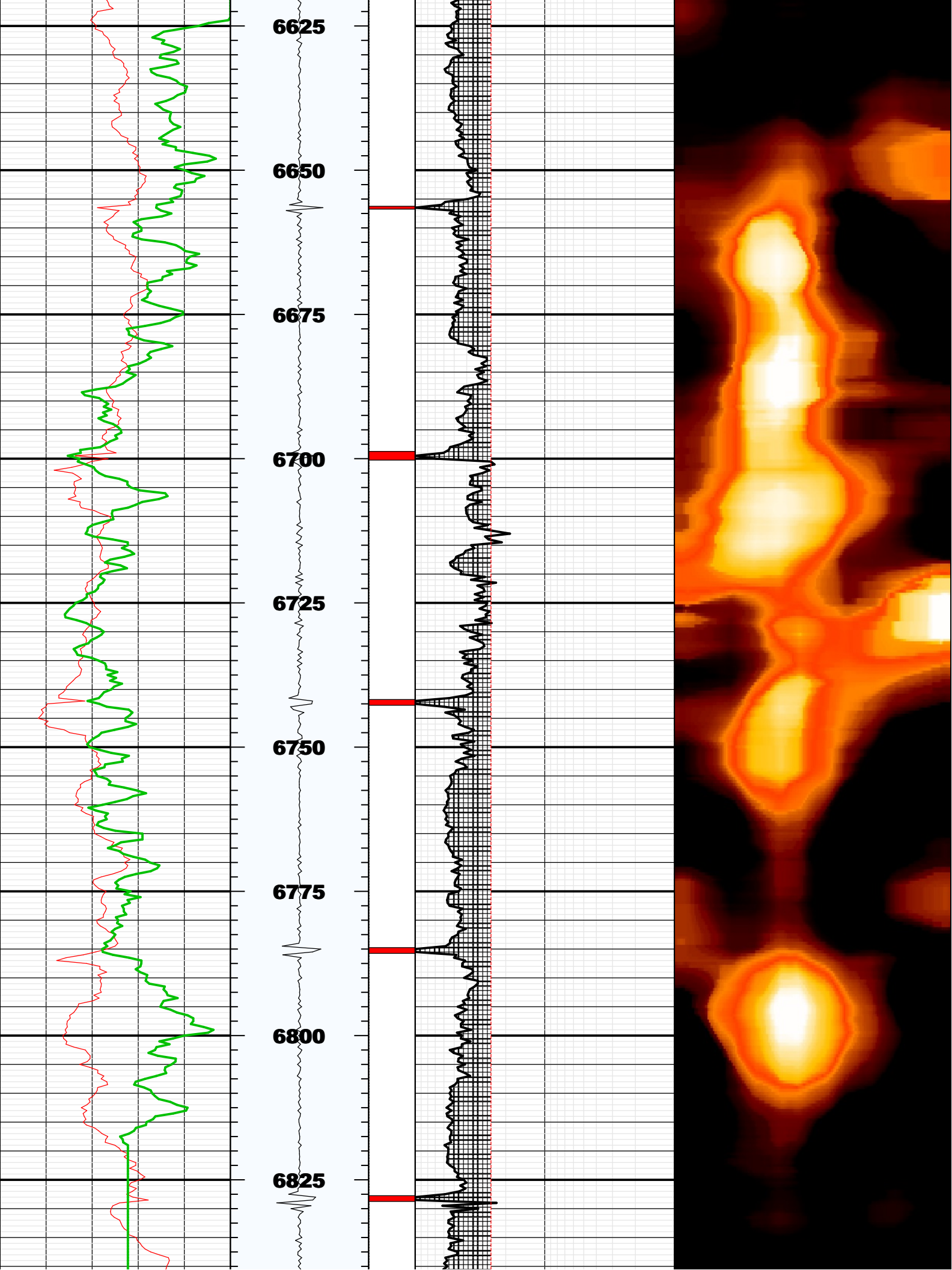


BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.40000	LB/G	Drilling Fluid Density
DFVL	206.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	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	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	1.80000	MRAY	Acoustic Impedance of Mud
ZTCM	2.60000	MRAY	Acoustic Impedance Threshold for Cement
ZTGS	0.30000	MRAY	Acoustic Impedance Threshold for Gas
WLEN	15.36685	US	T [^] 3 Processing Length

Repeat Pass

Company: Noble Energy Inc
Well: Wells Ranch AA35-62-1AHNC
Field: Wattenberg







Fluid Properties Used for Main Pass

