

Company: Noble Energy Inc

Well: Colt A13-655
Field: Wattenberg
County: Weld

State: Colorado

County: Weld				
Field: Wattenberg				
Location: SWNW Sec. 17 T6N R63W				
Well: Colt A13-655				
Company: Noble Energy Inc				
USI-LITE				
				LOCATION
Permanent Datum: Log Measured From: Drilling Measured From:		GL KB KB	Elev: K.B. 4685.0 F G.L. 4661.0 F D.F. 4684.0 F	
Logging Date	API Serial No. 05-123-40908-0000	Section 17	Township 6N	Range 63W
Run Number	Run 1			
Depth Driller	7081.0 F			
Schlumberger Depth	6905.0 F			
Bottom Log Interval	6905.0 F			
Top Log Interval	50.0 F			
Casing Fluid Level	8.0 F			
Salinity				
Density	8.70 LB/G			
Fluid Level	8.0 F			
BIT/CASING/TUBING STRING				
Bit Size	8.750 IN			
From	6905.0 F			
To	-999.2 F			
Casing Size	7.00 IN			
Weight	26.00 LB/F			
Grade	P110			
From	24.1 F			
To	7071.1 F			
Max Recorded Temp	226.5			
Logger on bottom (date)	01-May-2015			
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: U711136 Length: 17000.00000

DISCLAIMER

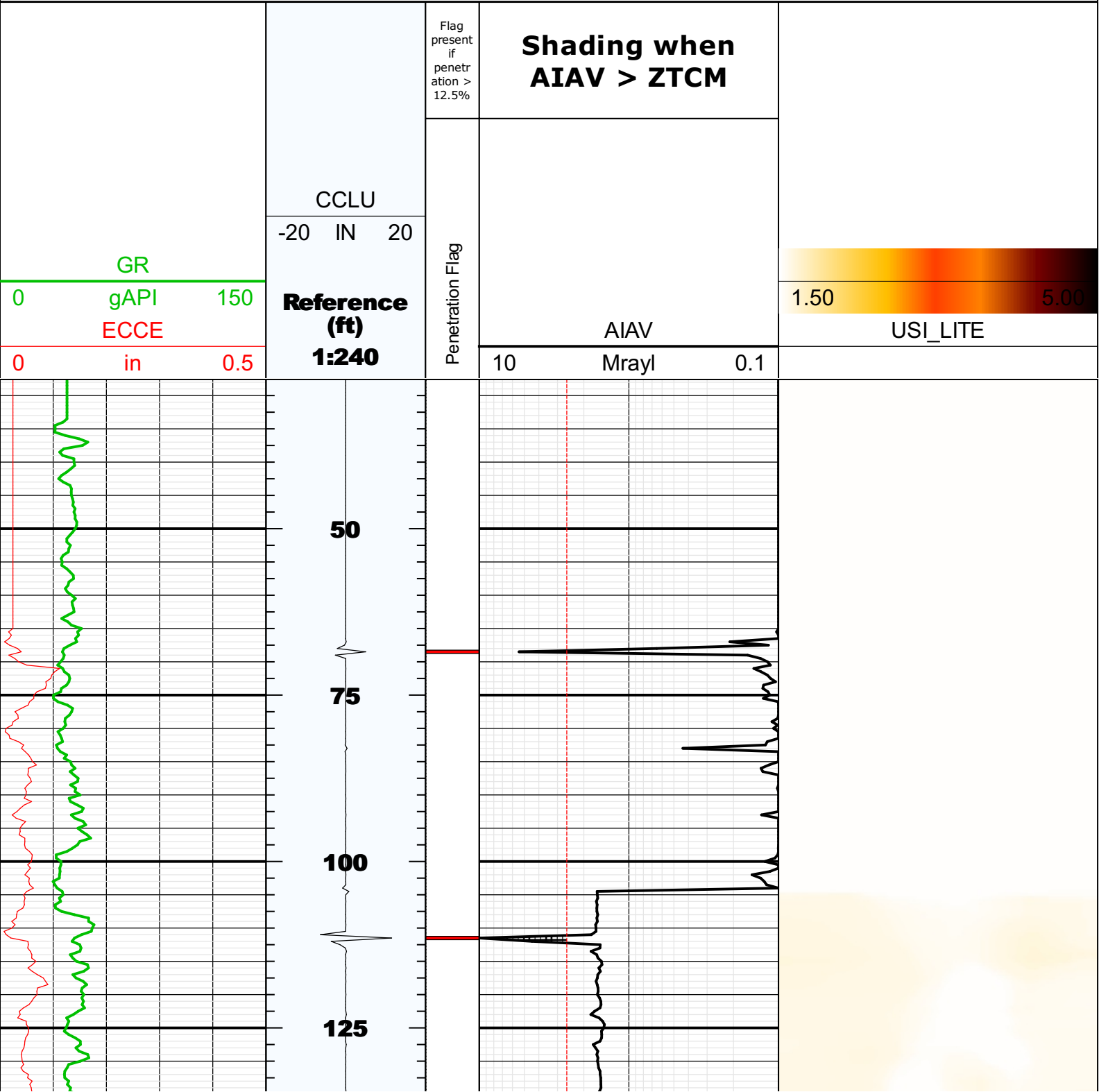
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIIONS ON USE OF THE RECORDED-DATA (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

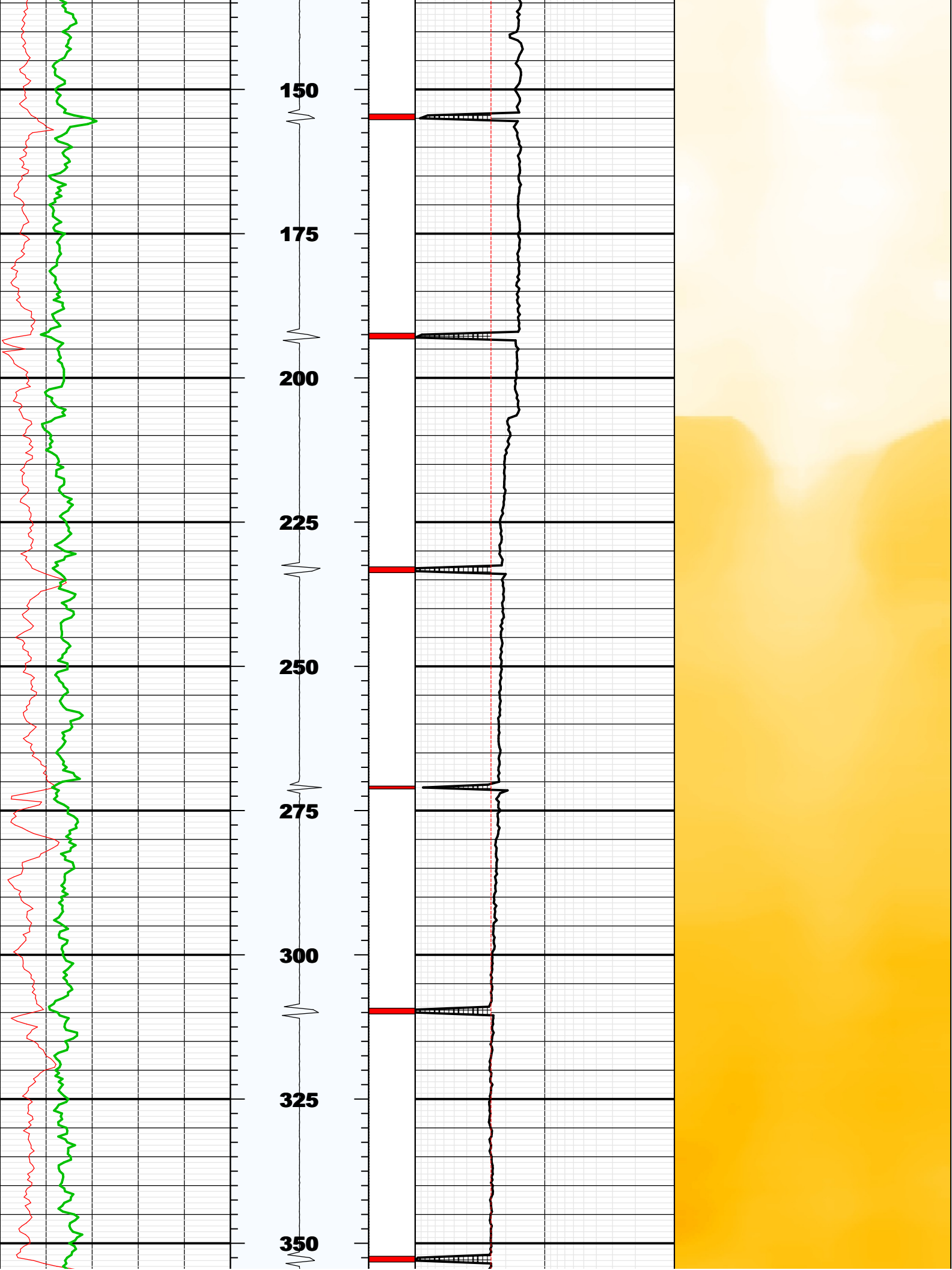
This is the first run in hole.
Toolstring run as per toolsketch.
Log objective Cement Evaluation
0 PSI repeat pass and 2500 PSI main pass.
Estimated TOC @ 430'. Expected TOC @ 24'.
4.5' liner top at 6912.9'.
Bottom log interval at 6905' to maintain distance from top of liner.
Bottom hole temperature was 226.59 degF.

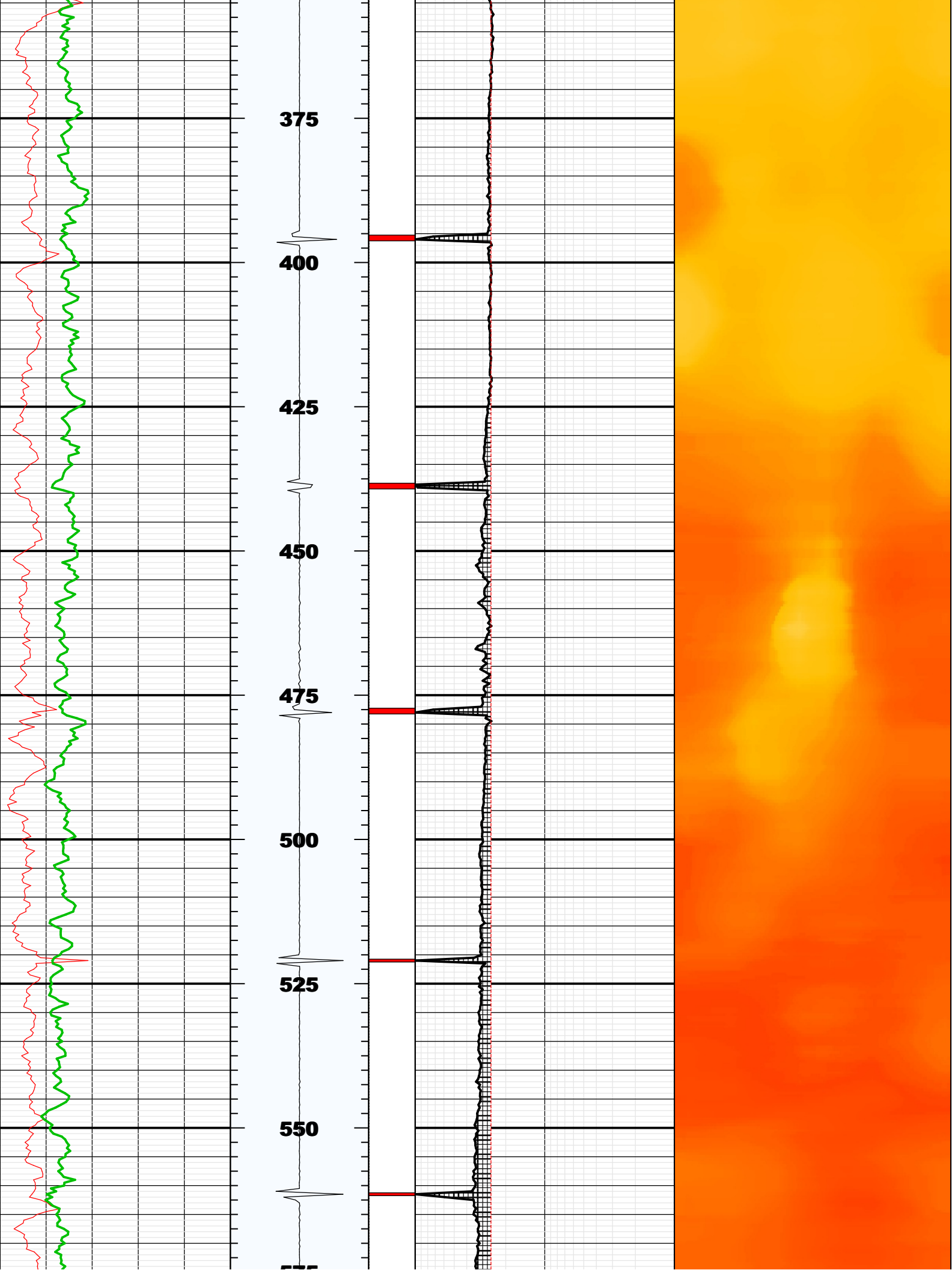
Thank you for choosing Schlumberger Wireline!
SLB crew Ian Derry Jake Jump and Keri Ondrus.

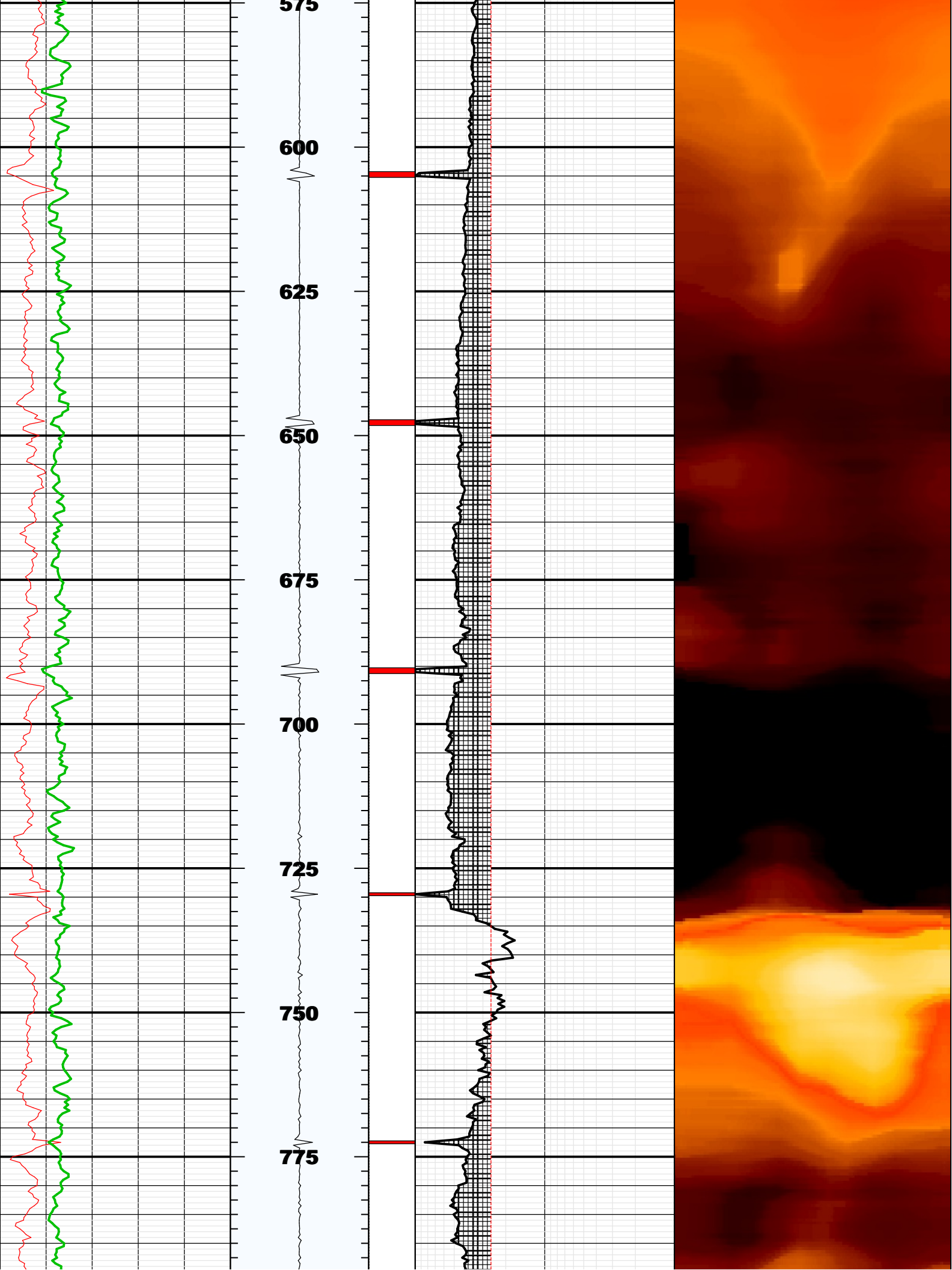
Main Pass

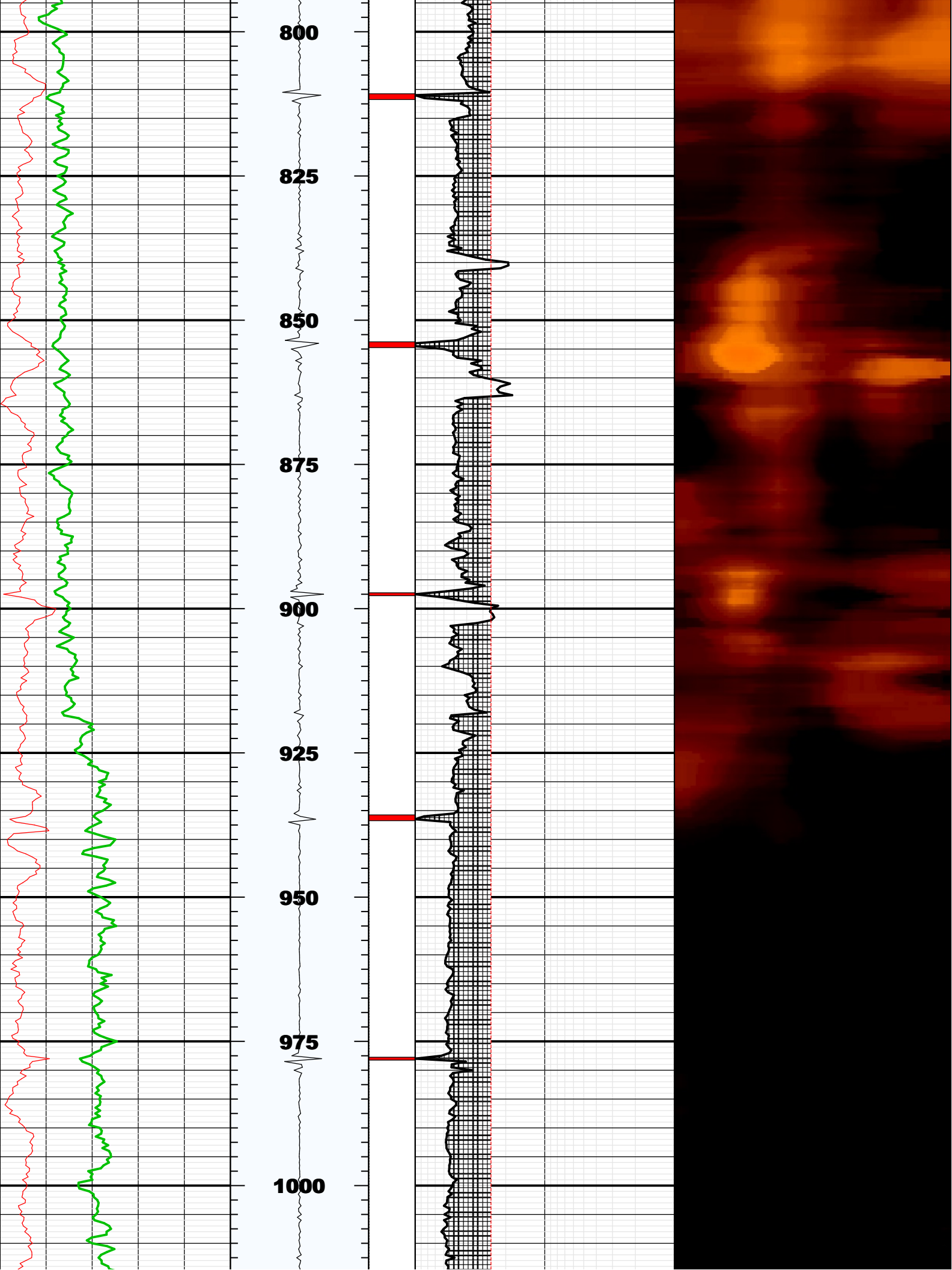
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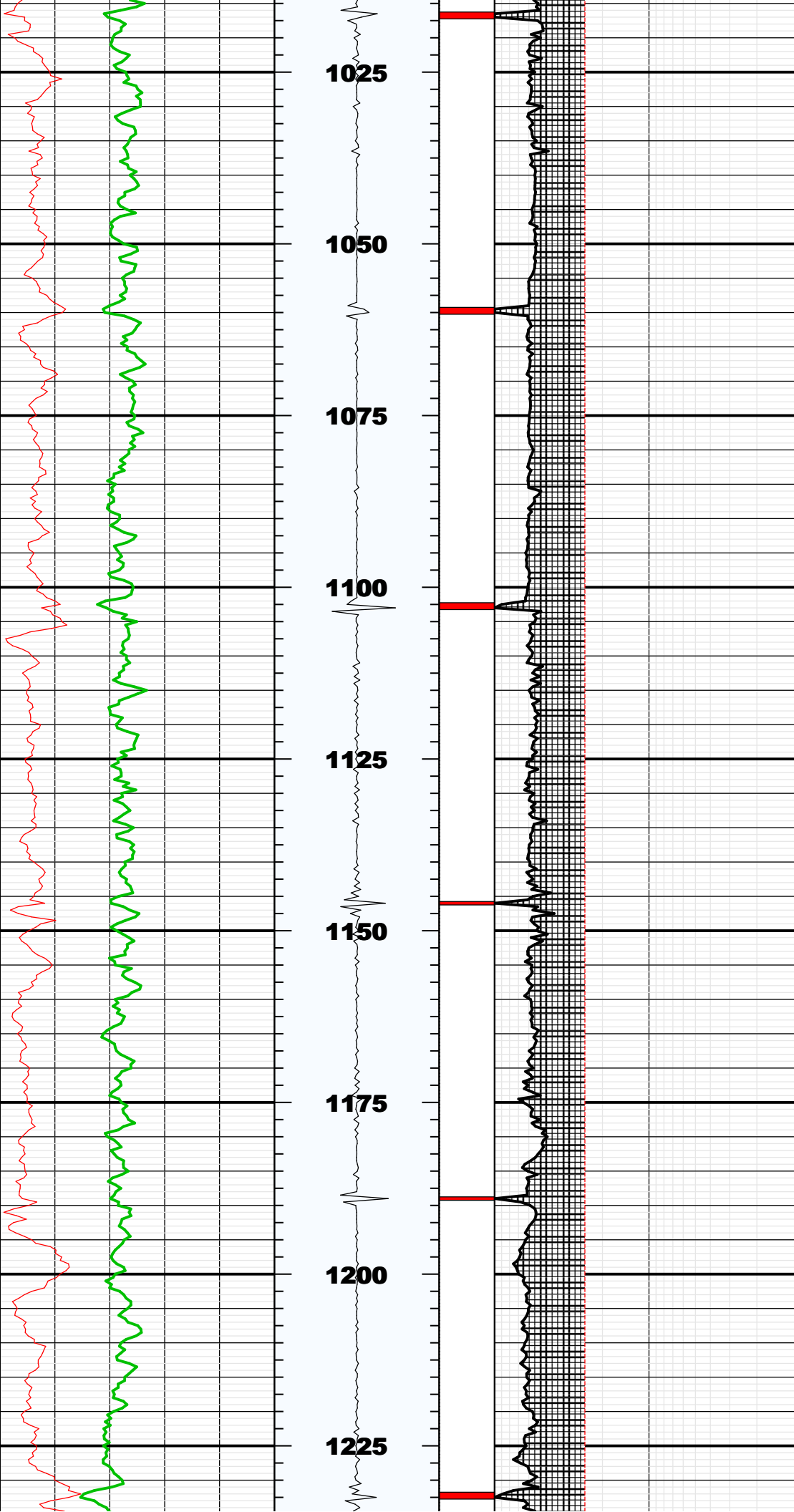


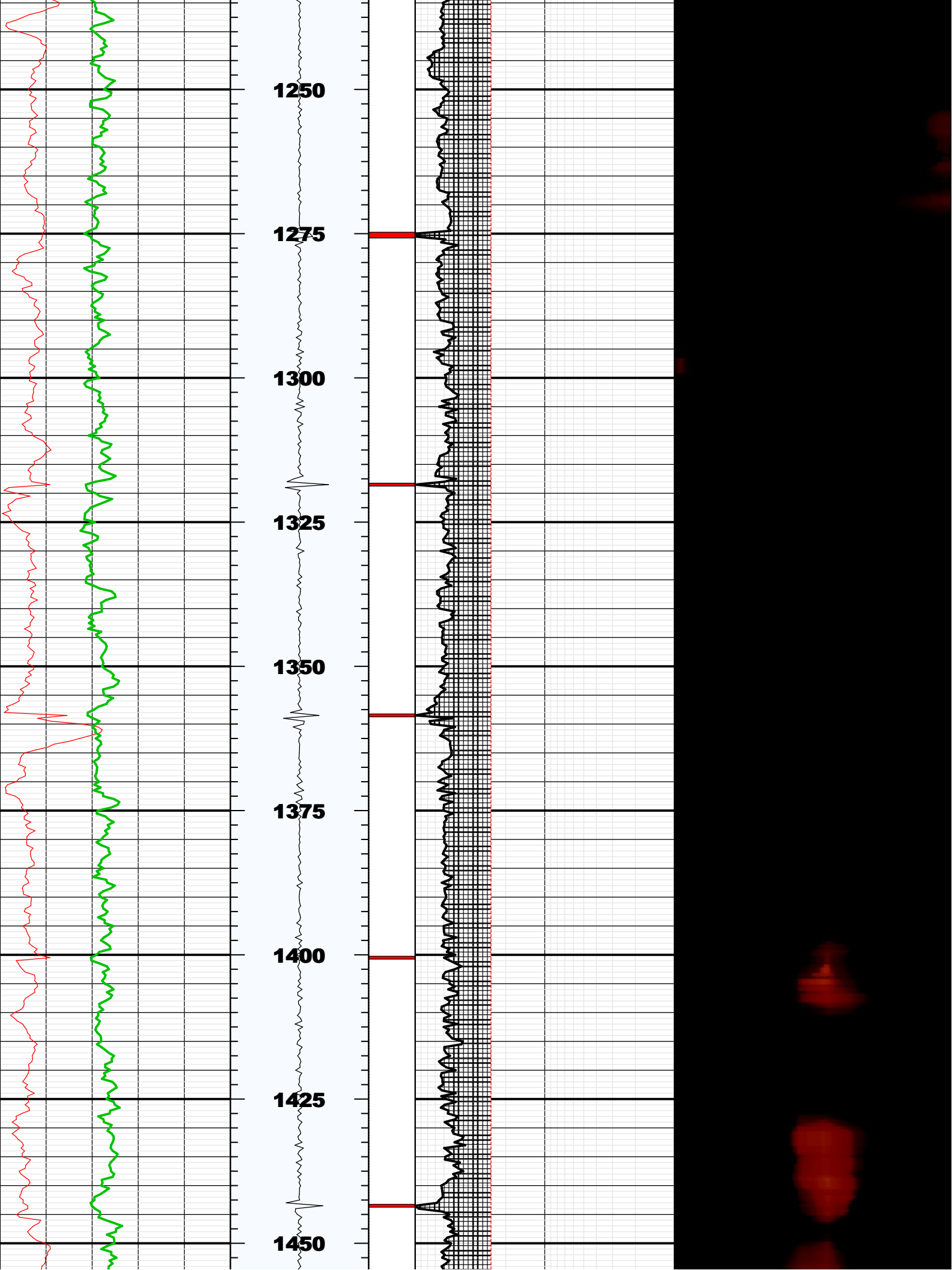


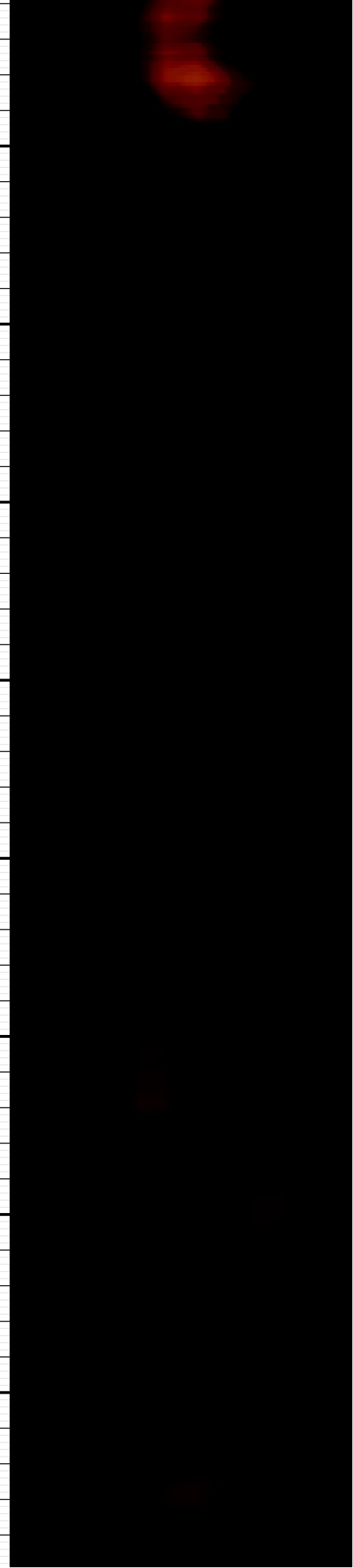
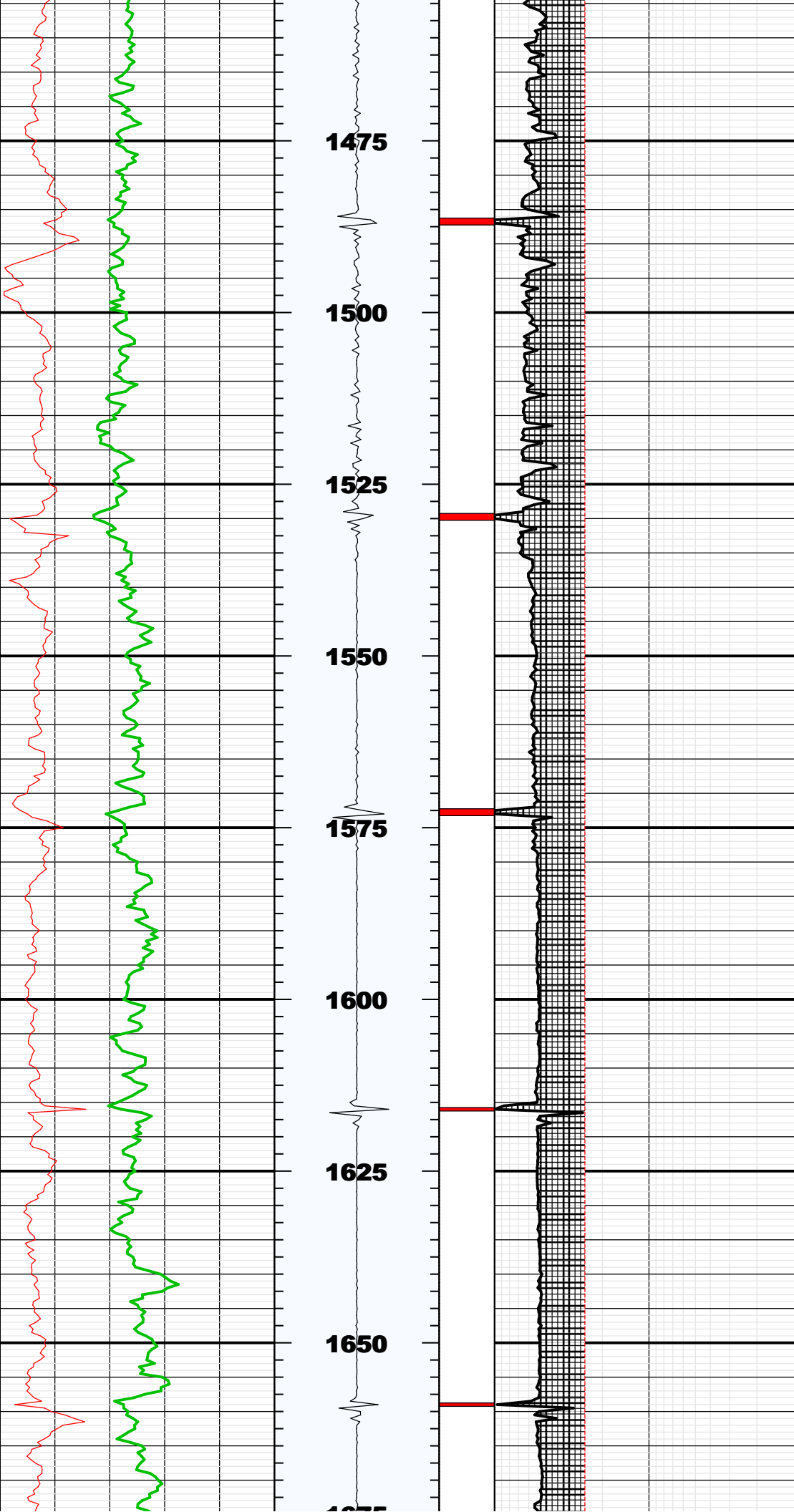


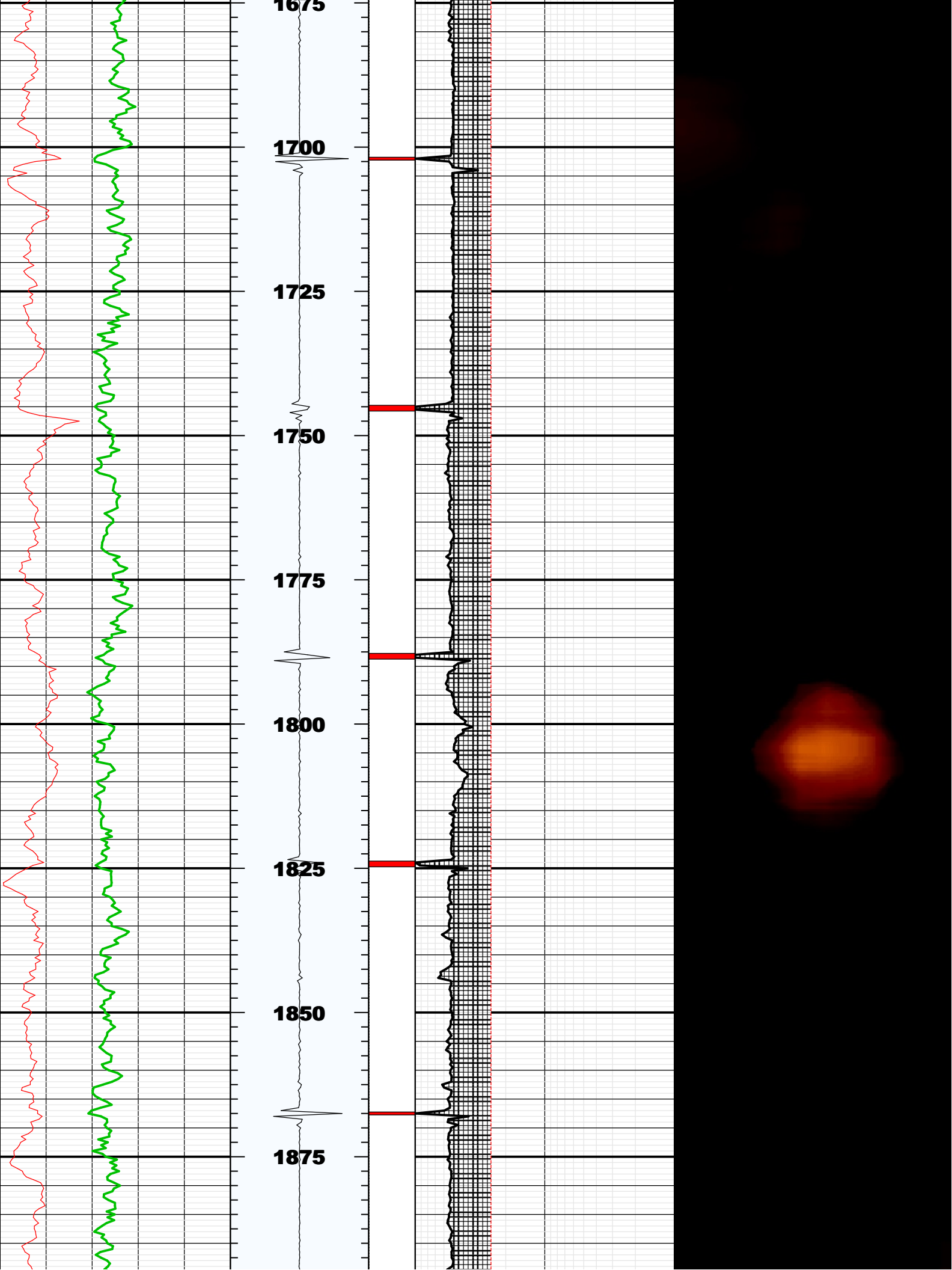


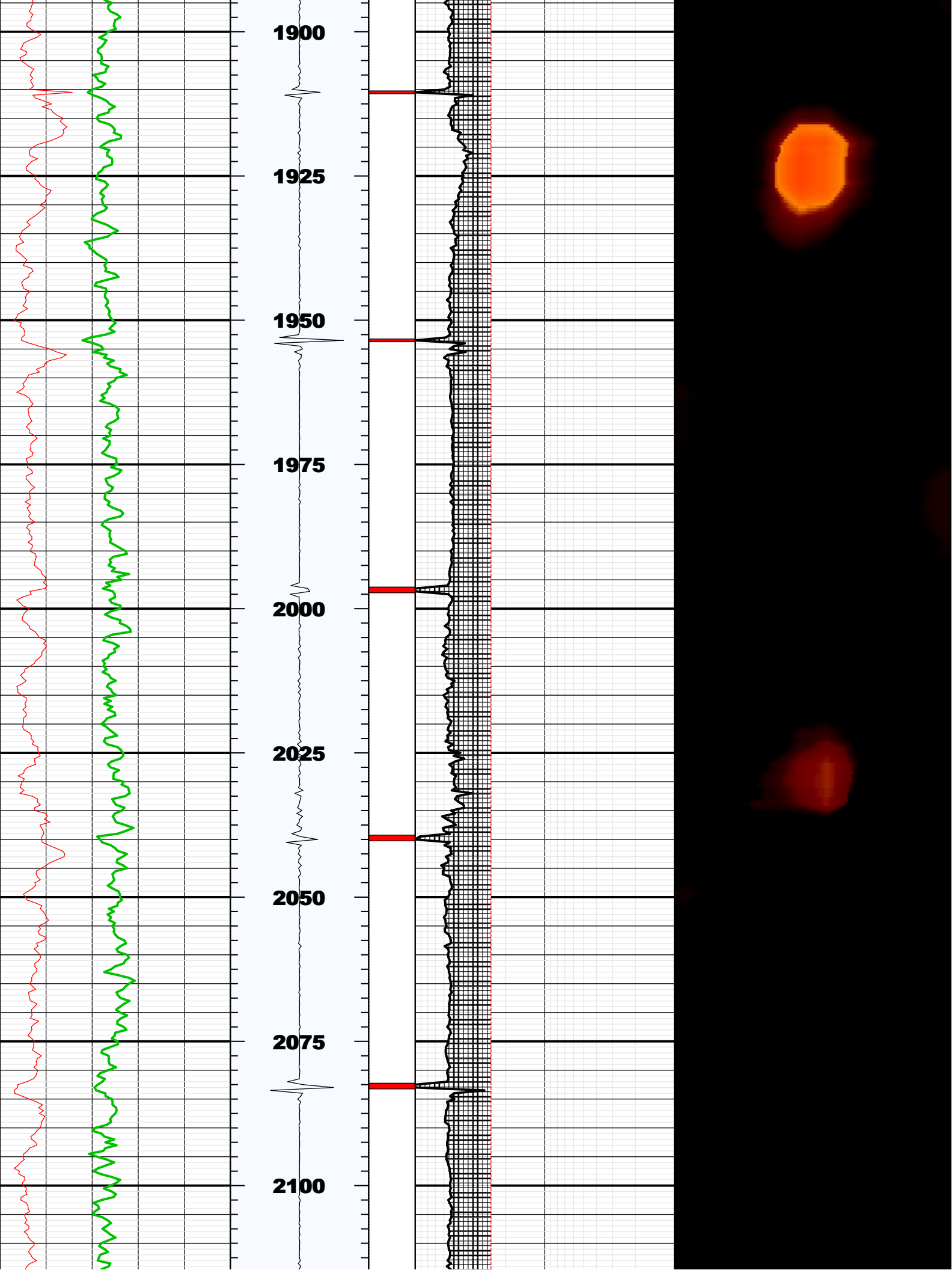


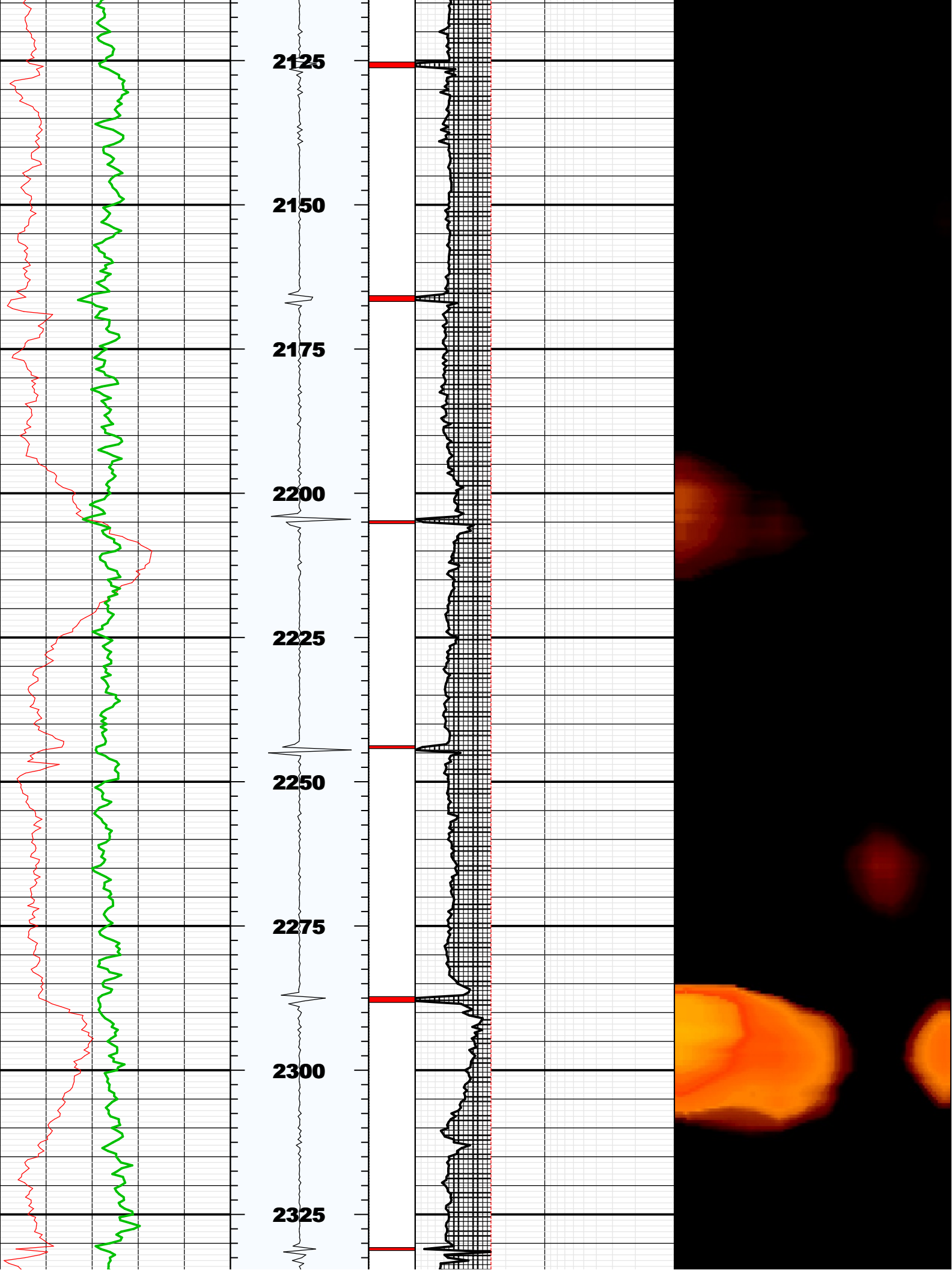


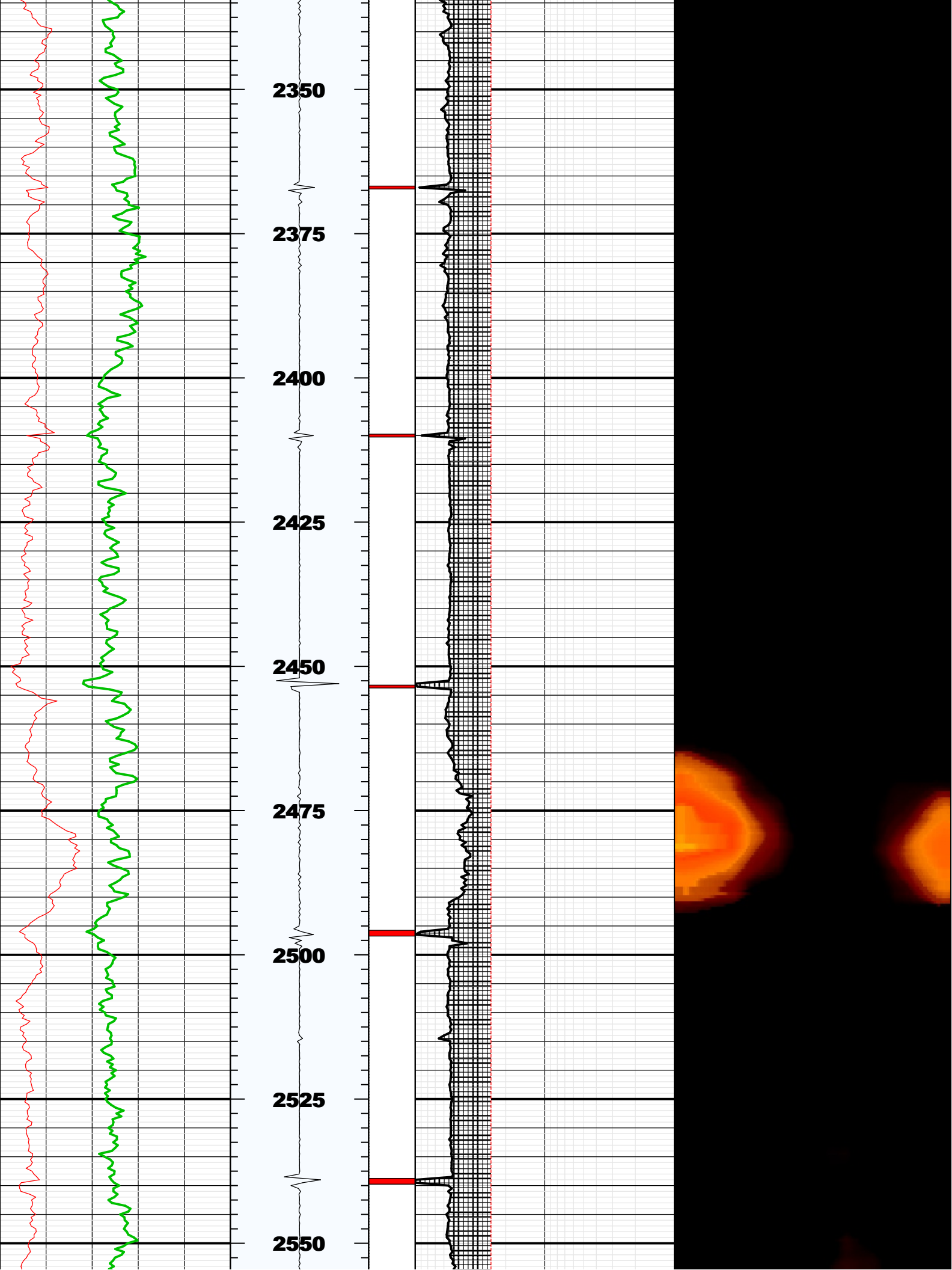


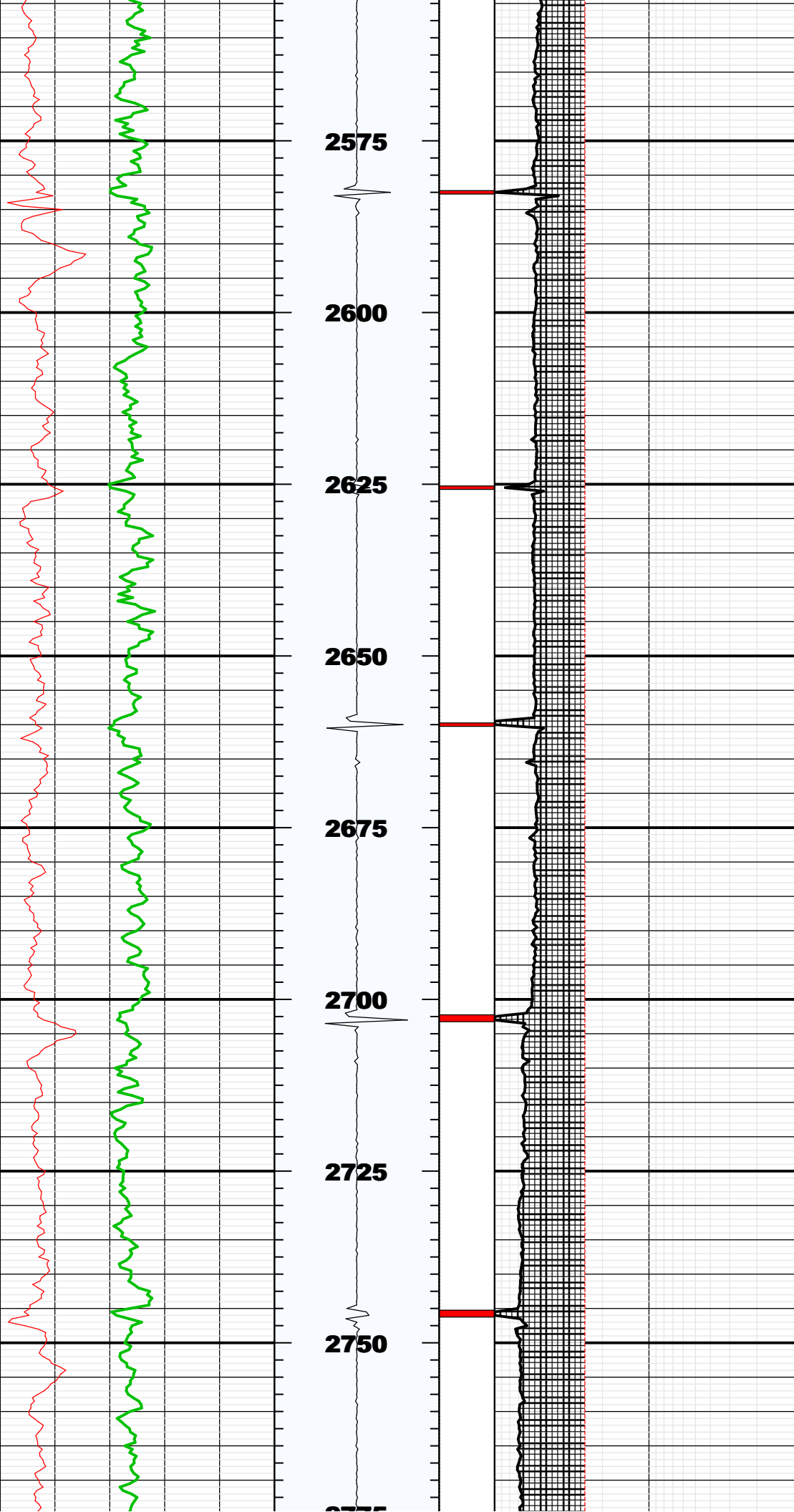


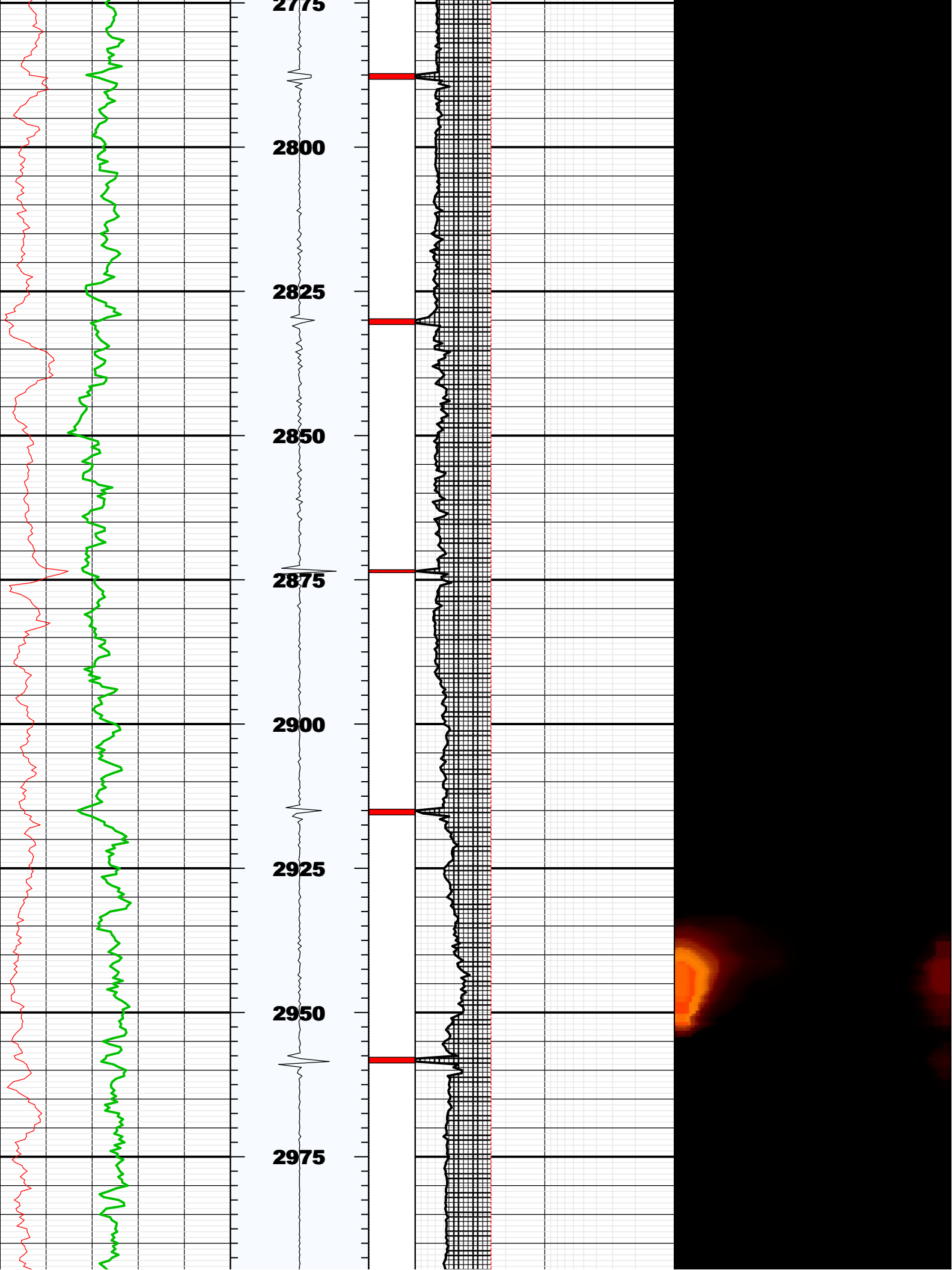


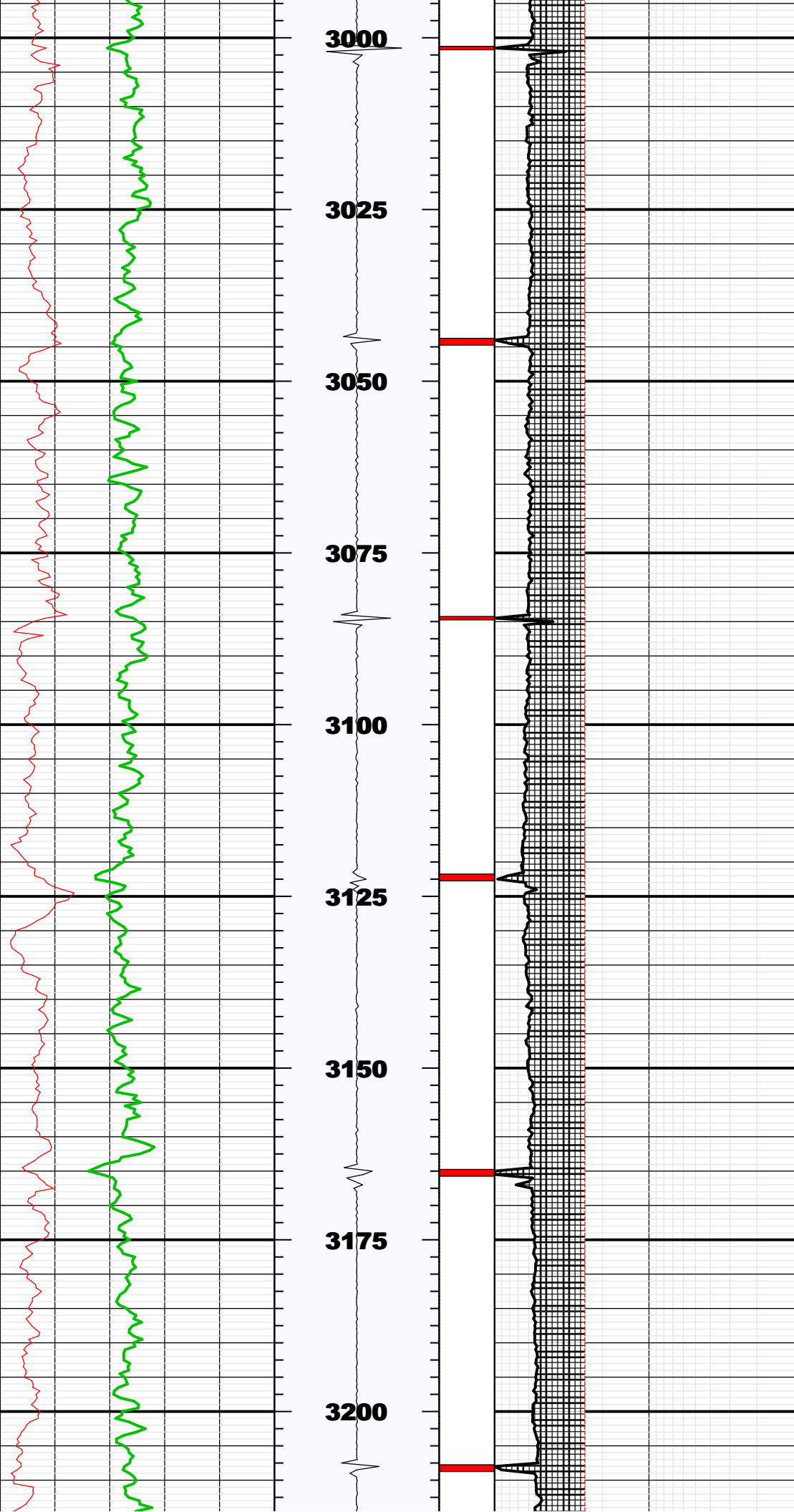


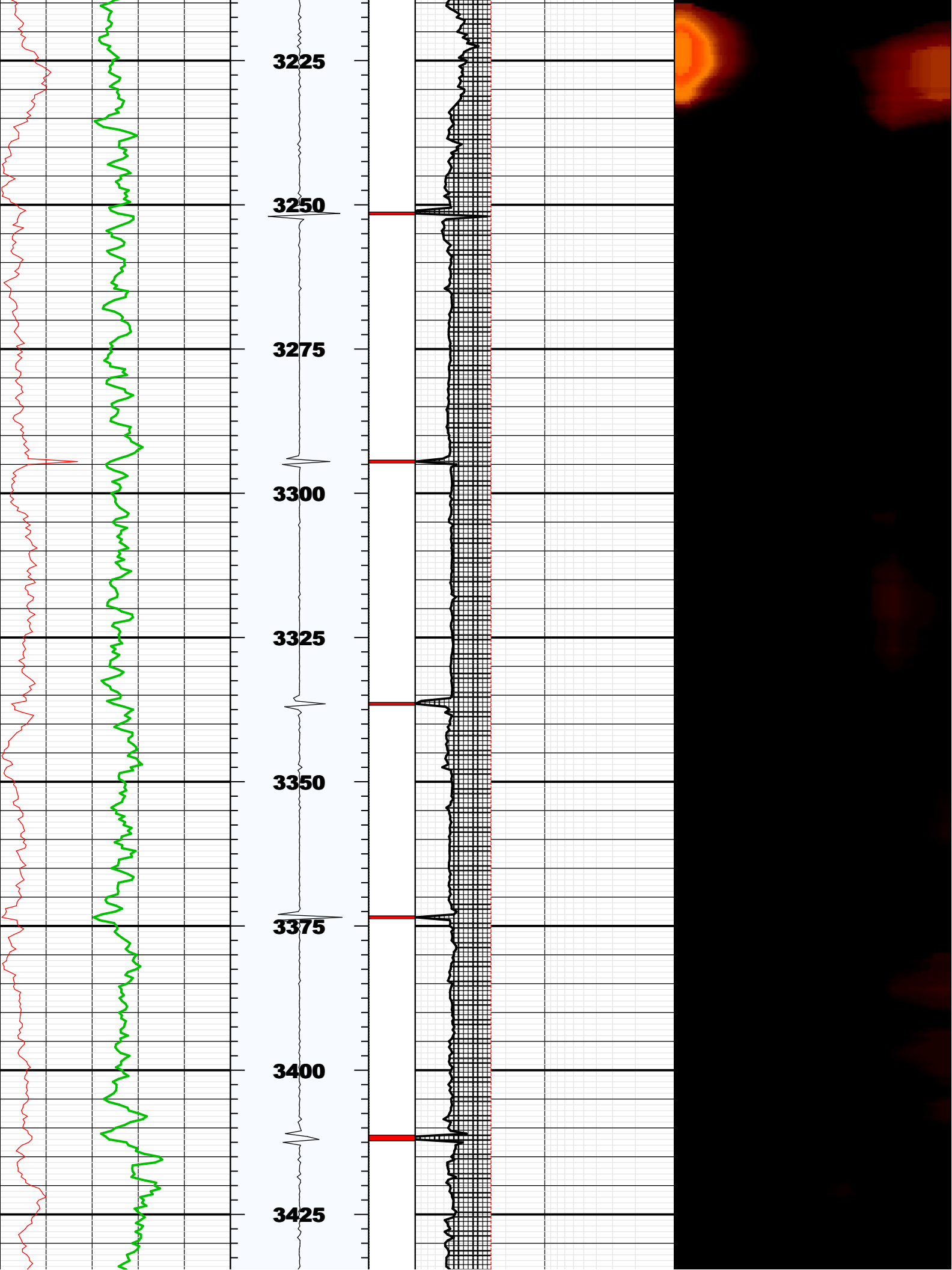


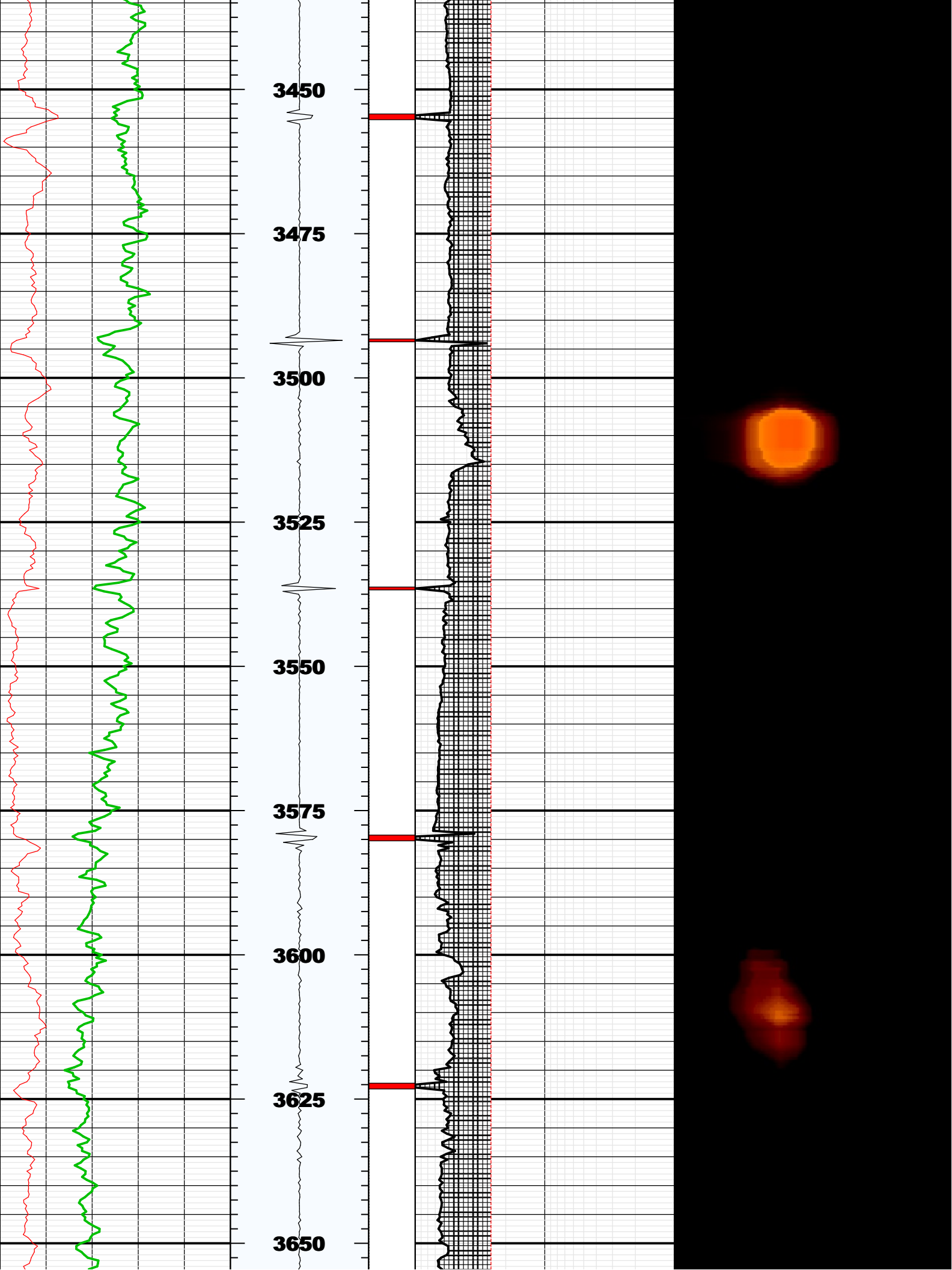


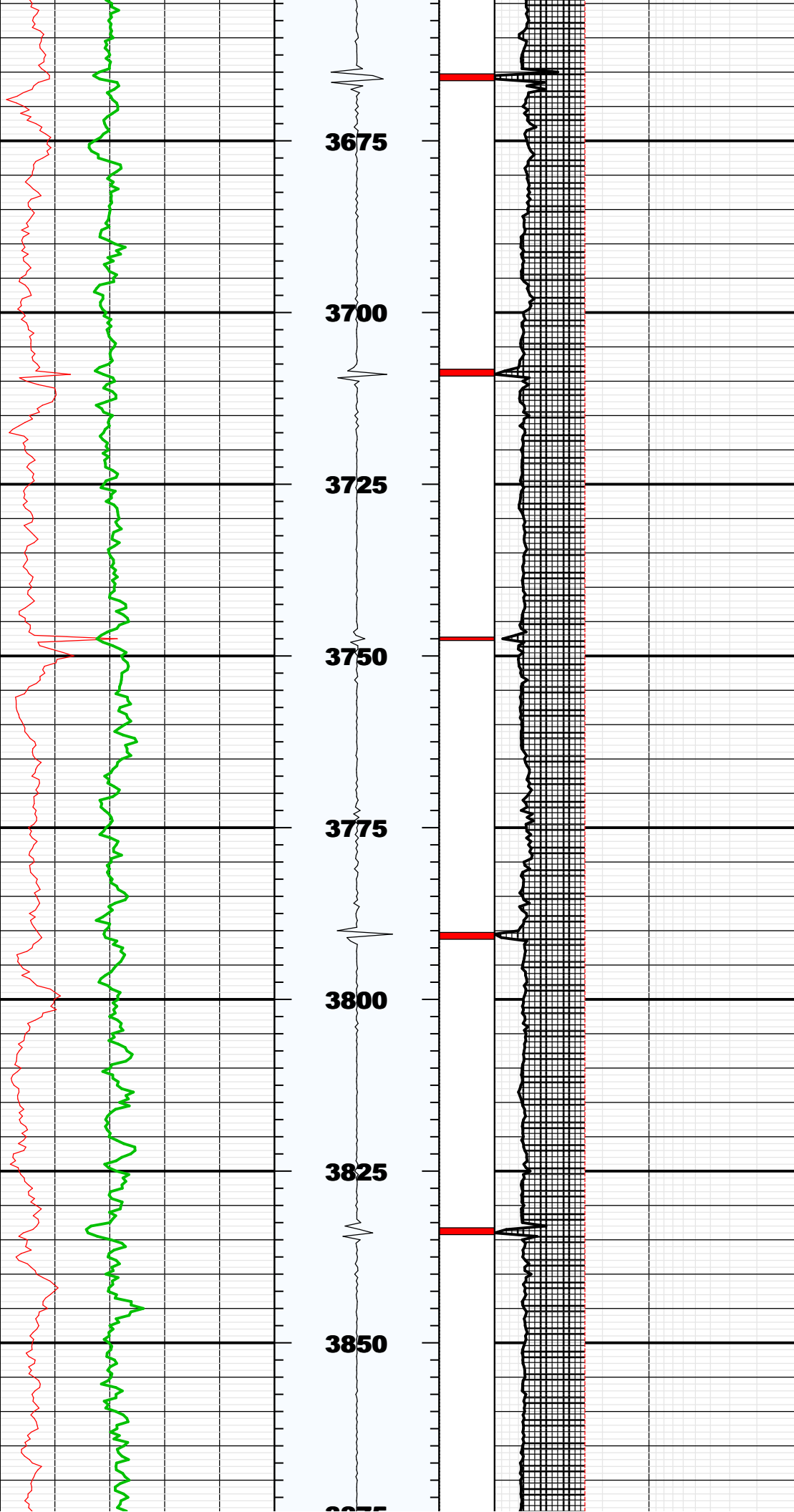


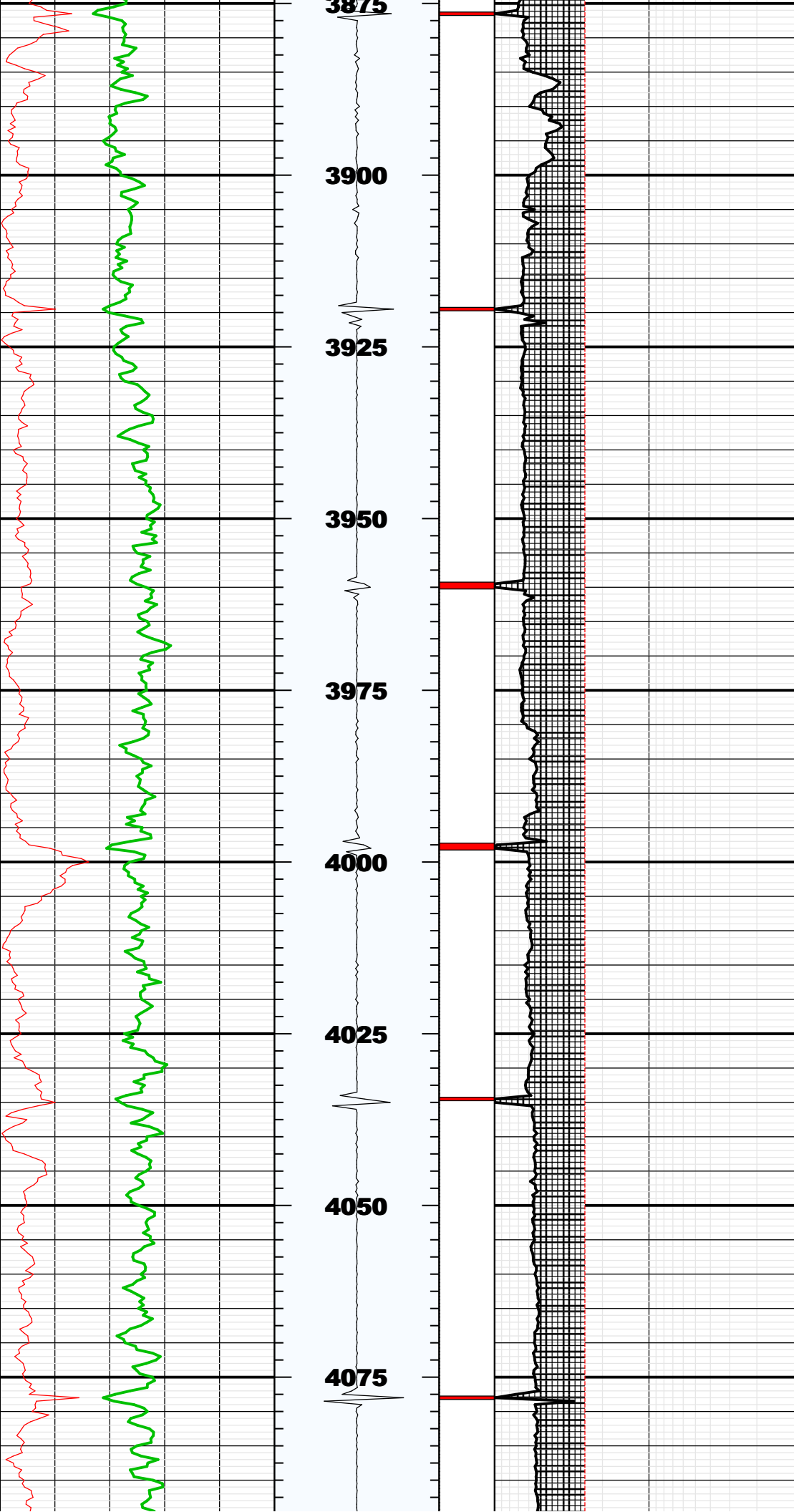


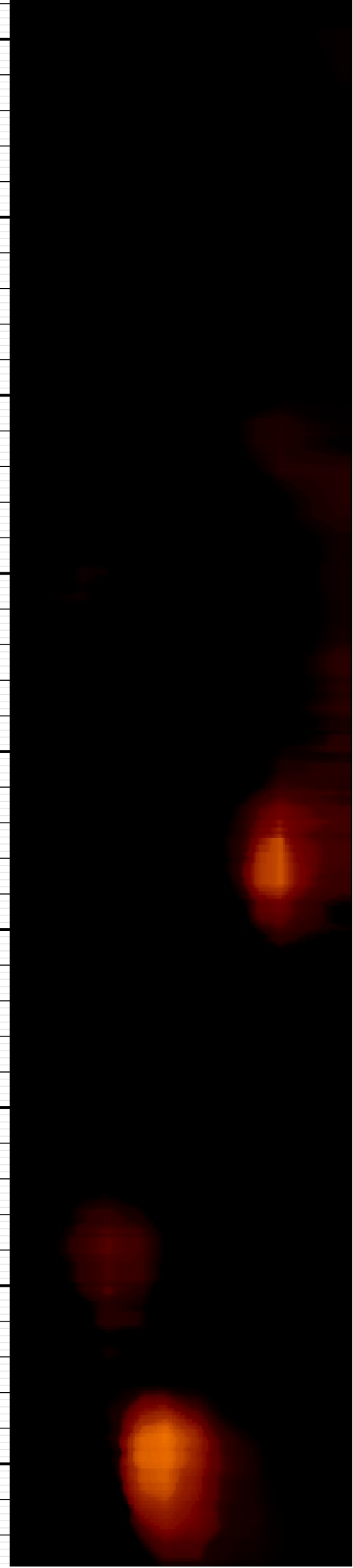
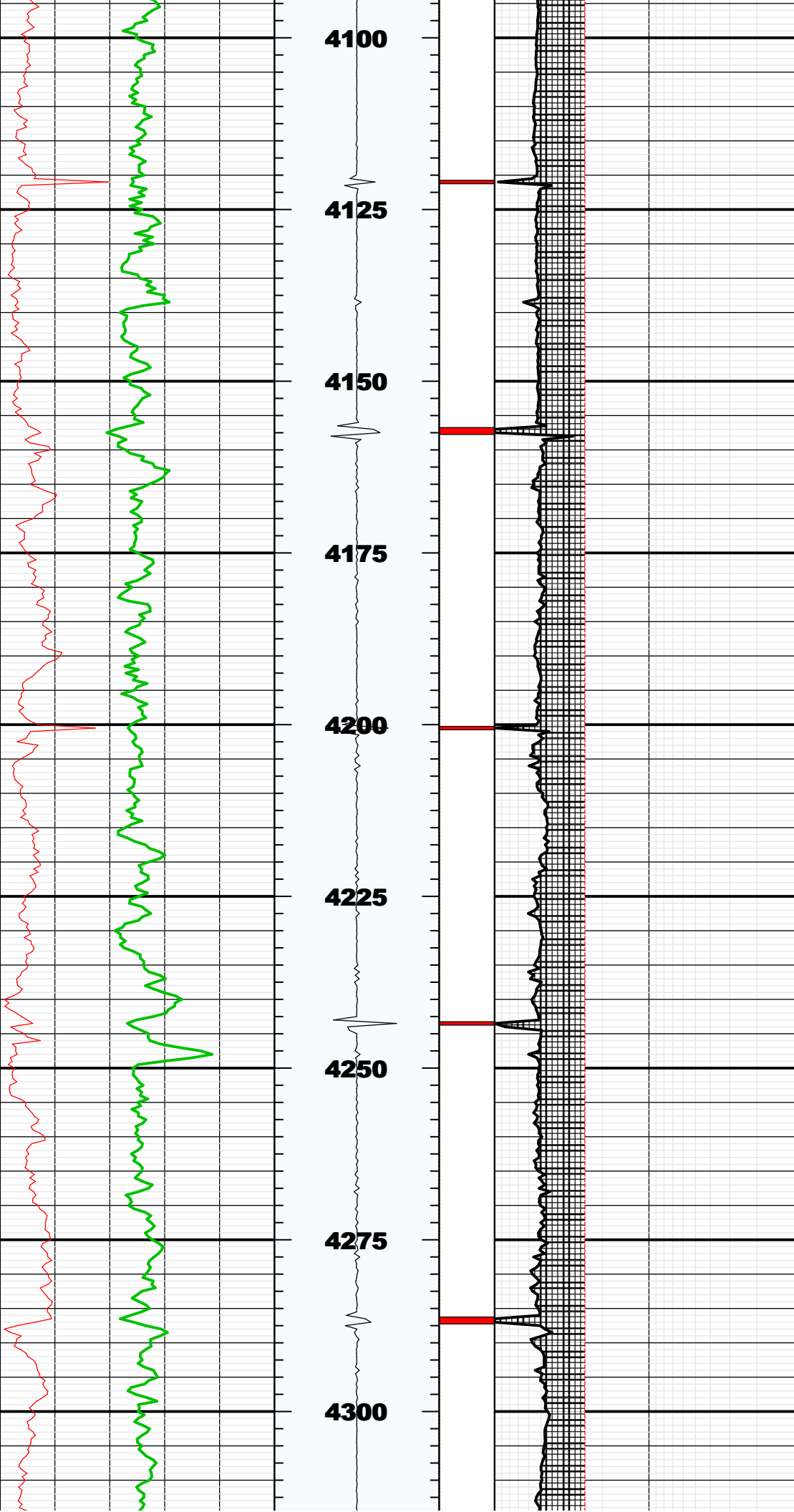


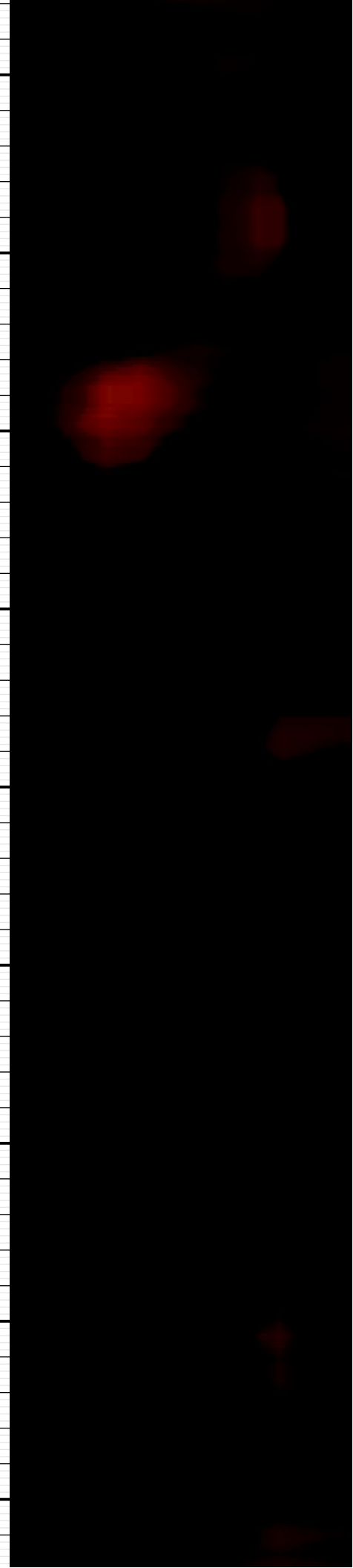
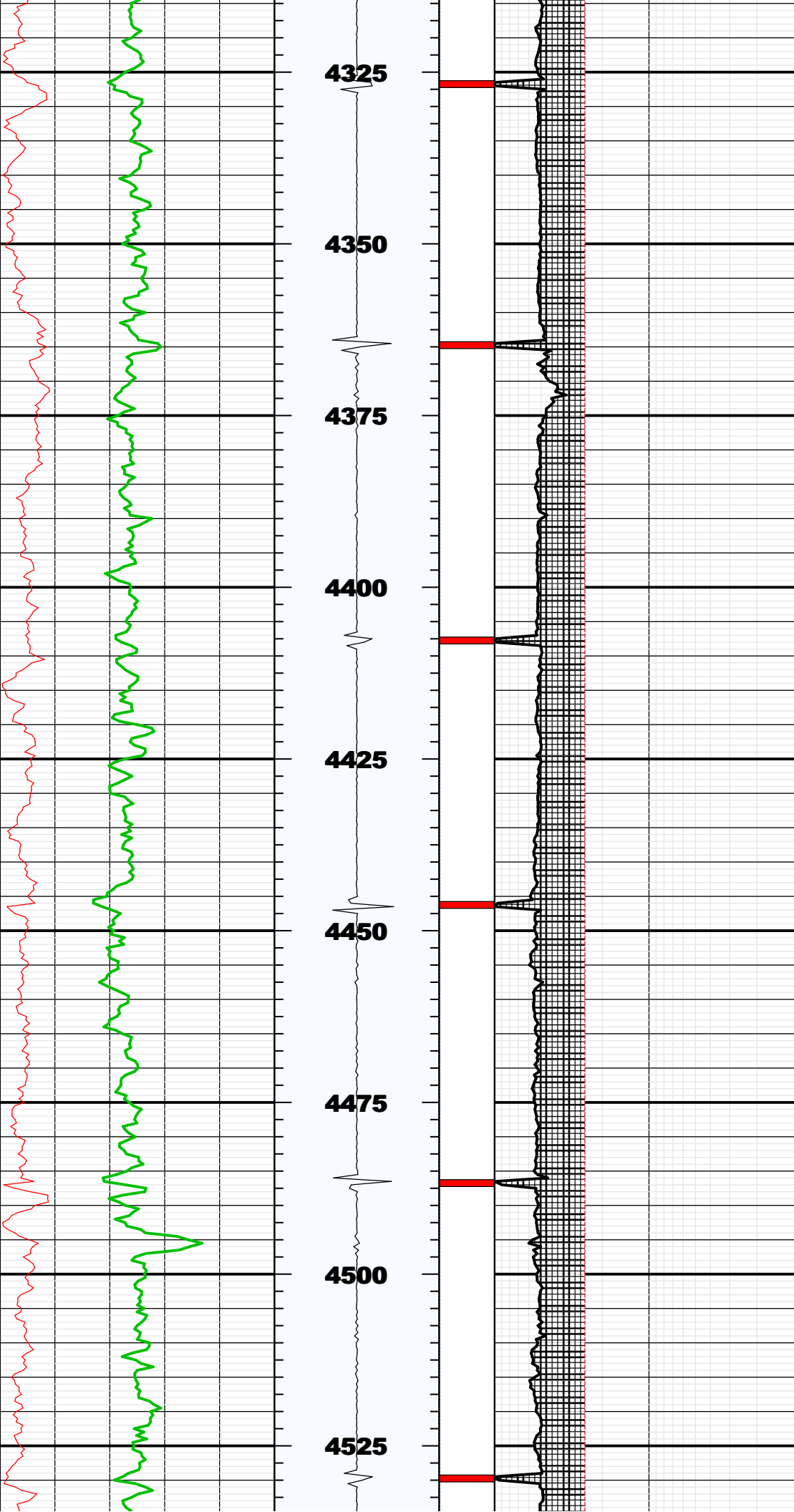


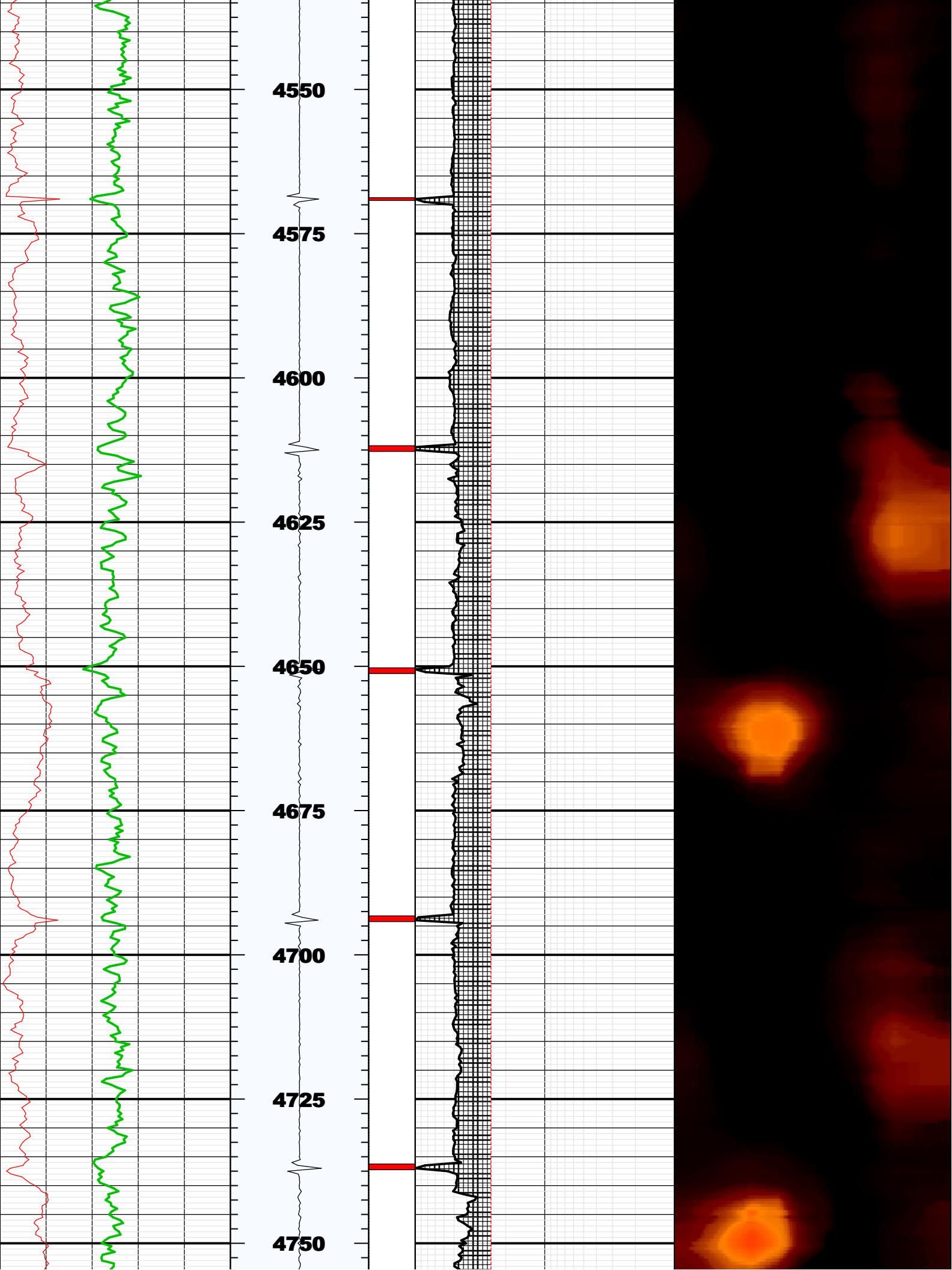


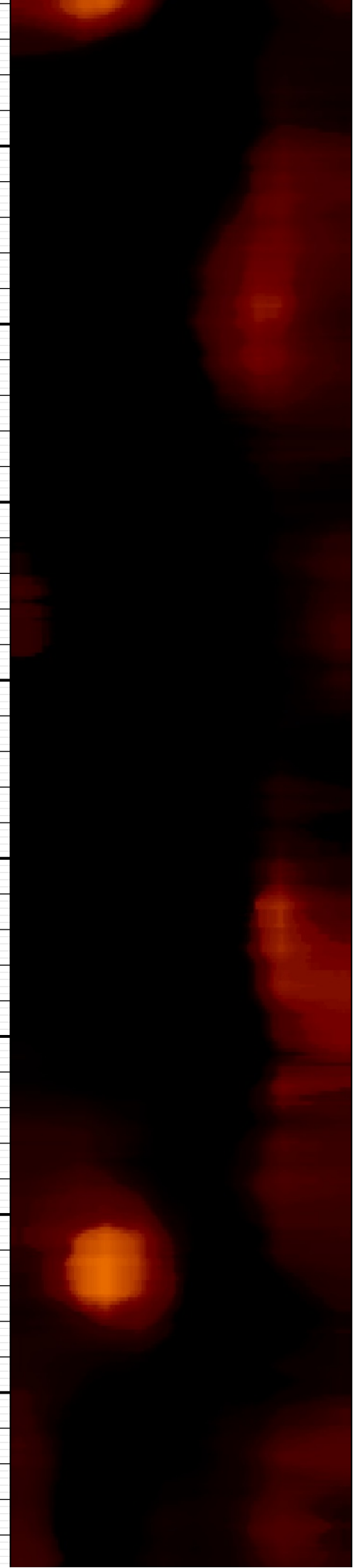
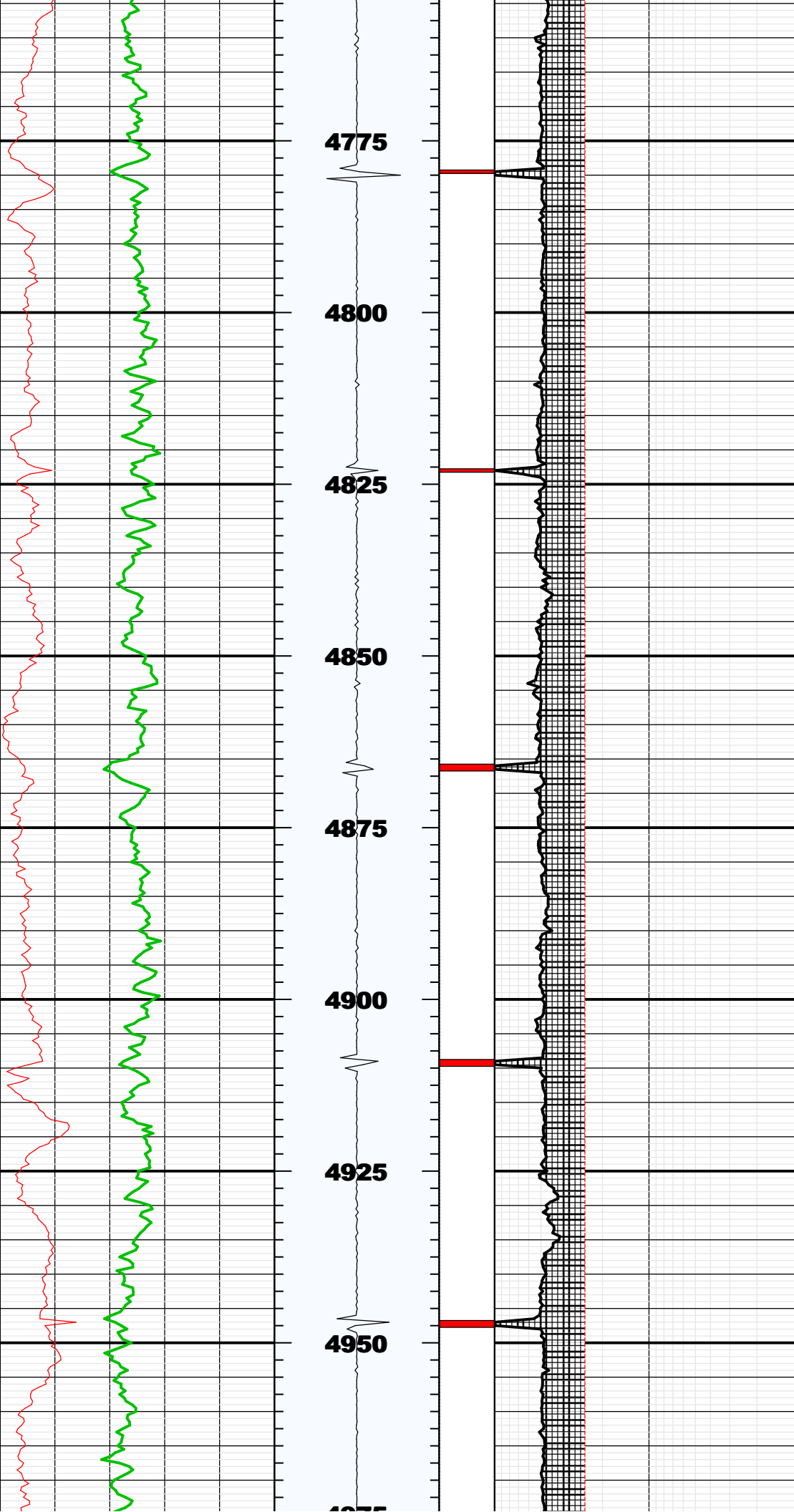


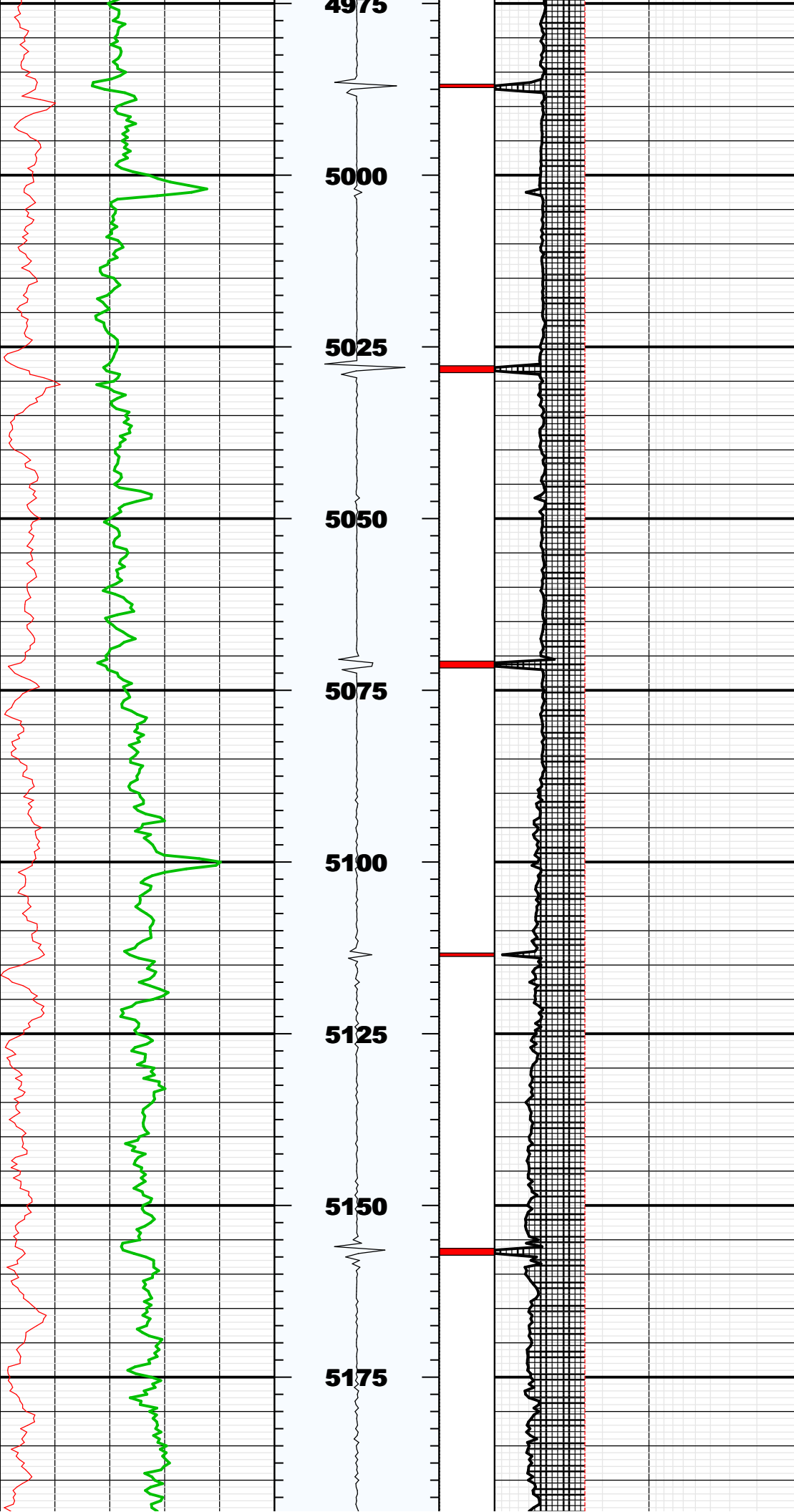


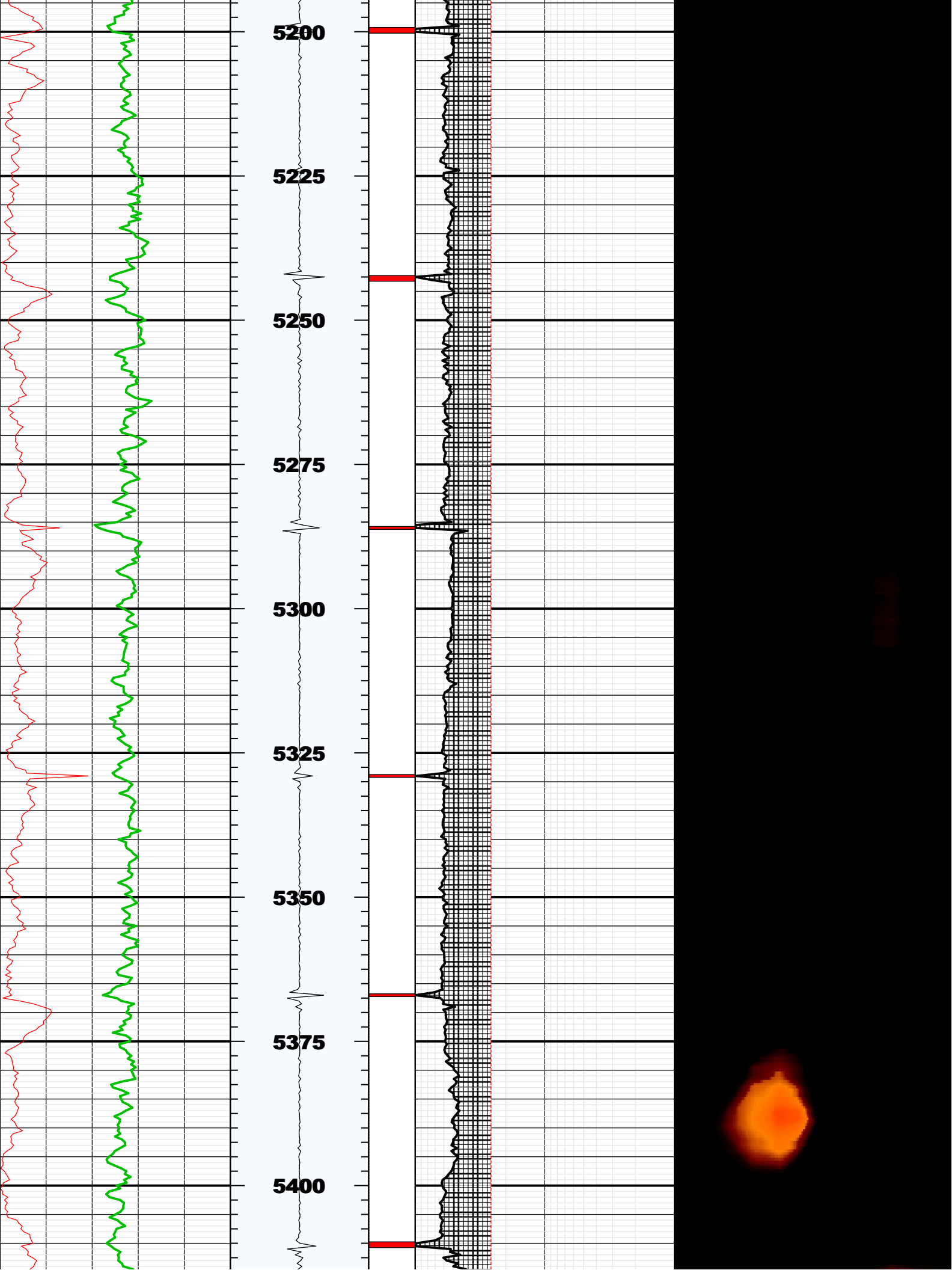


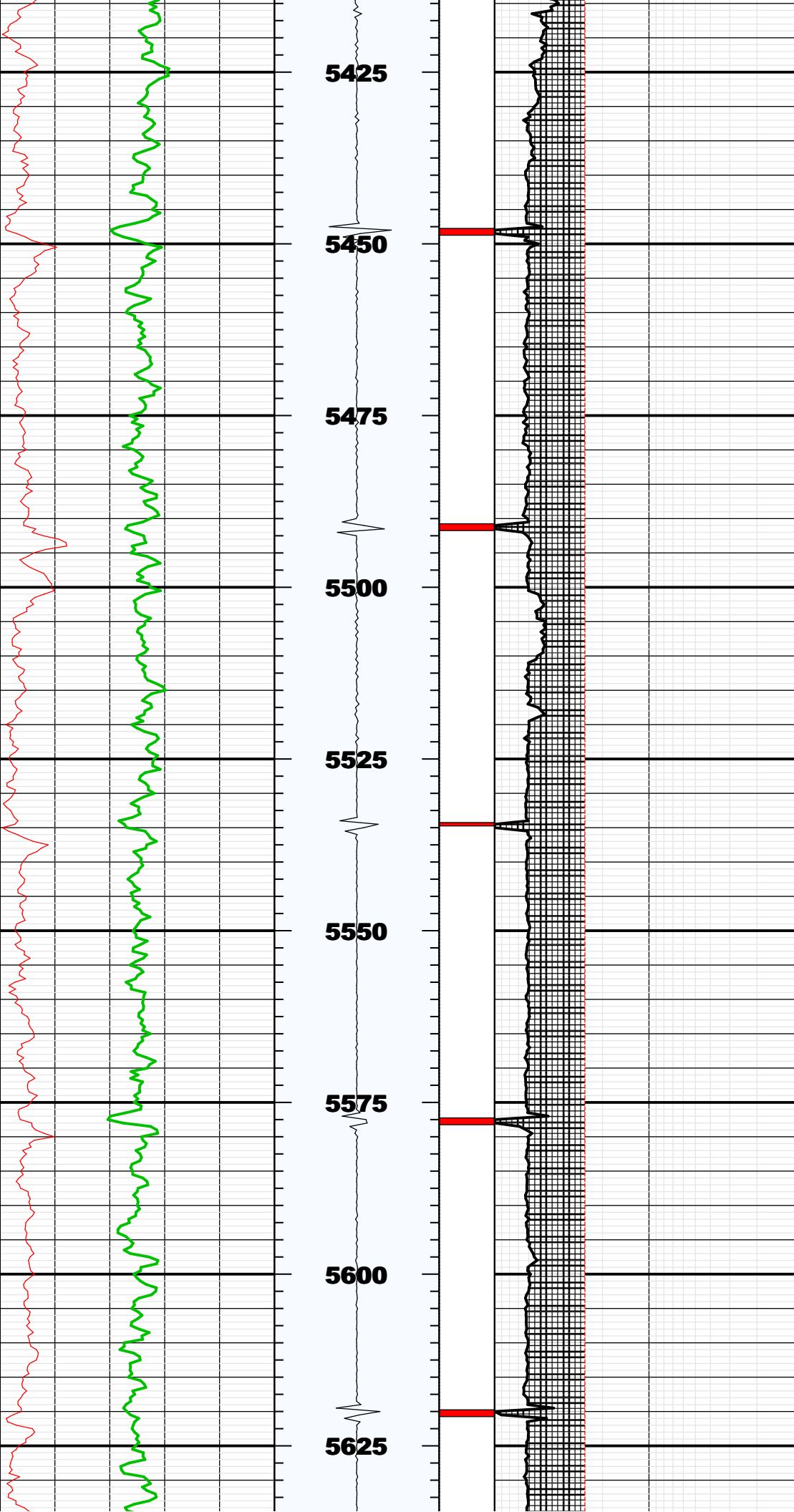


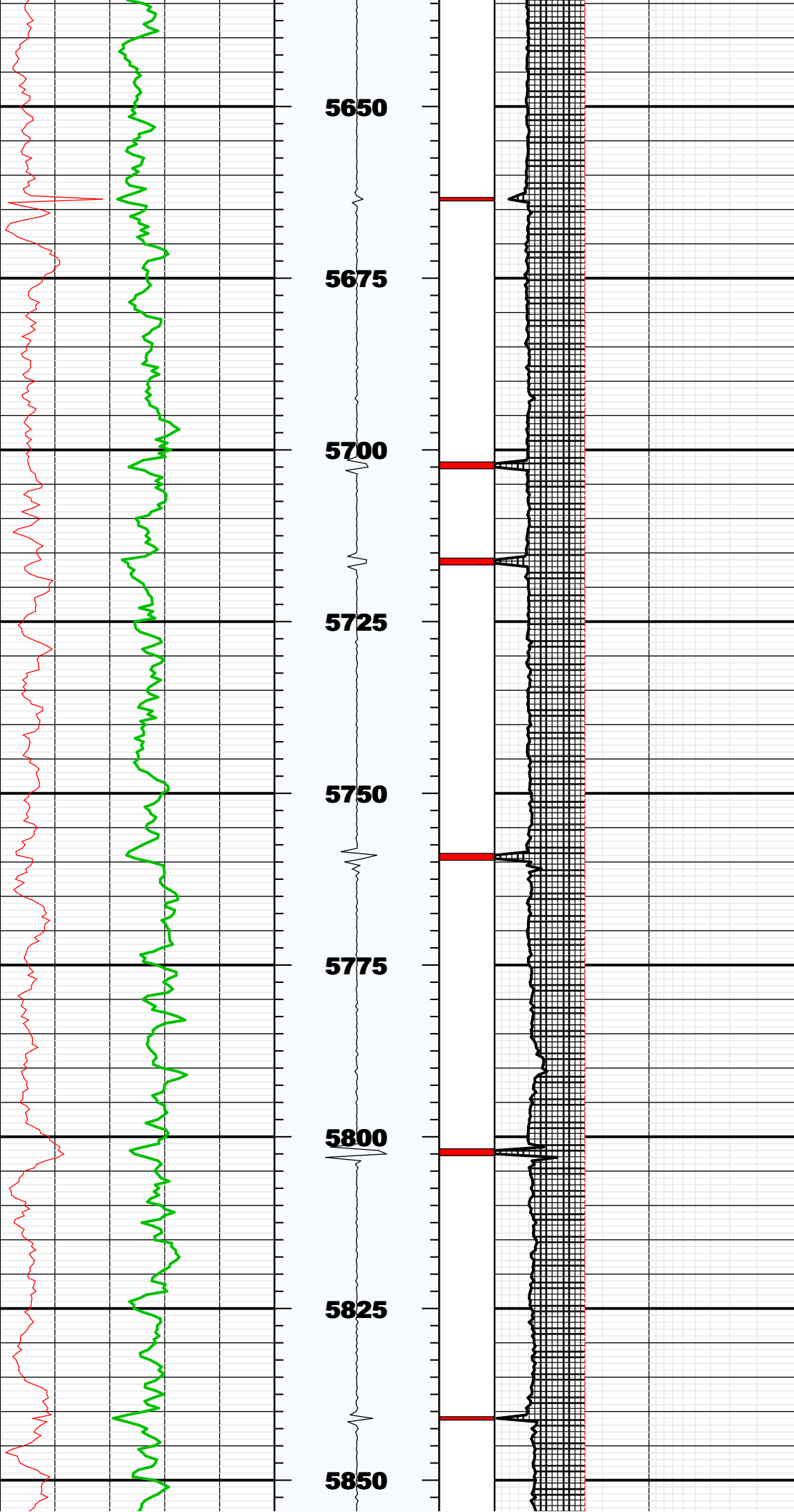


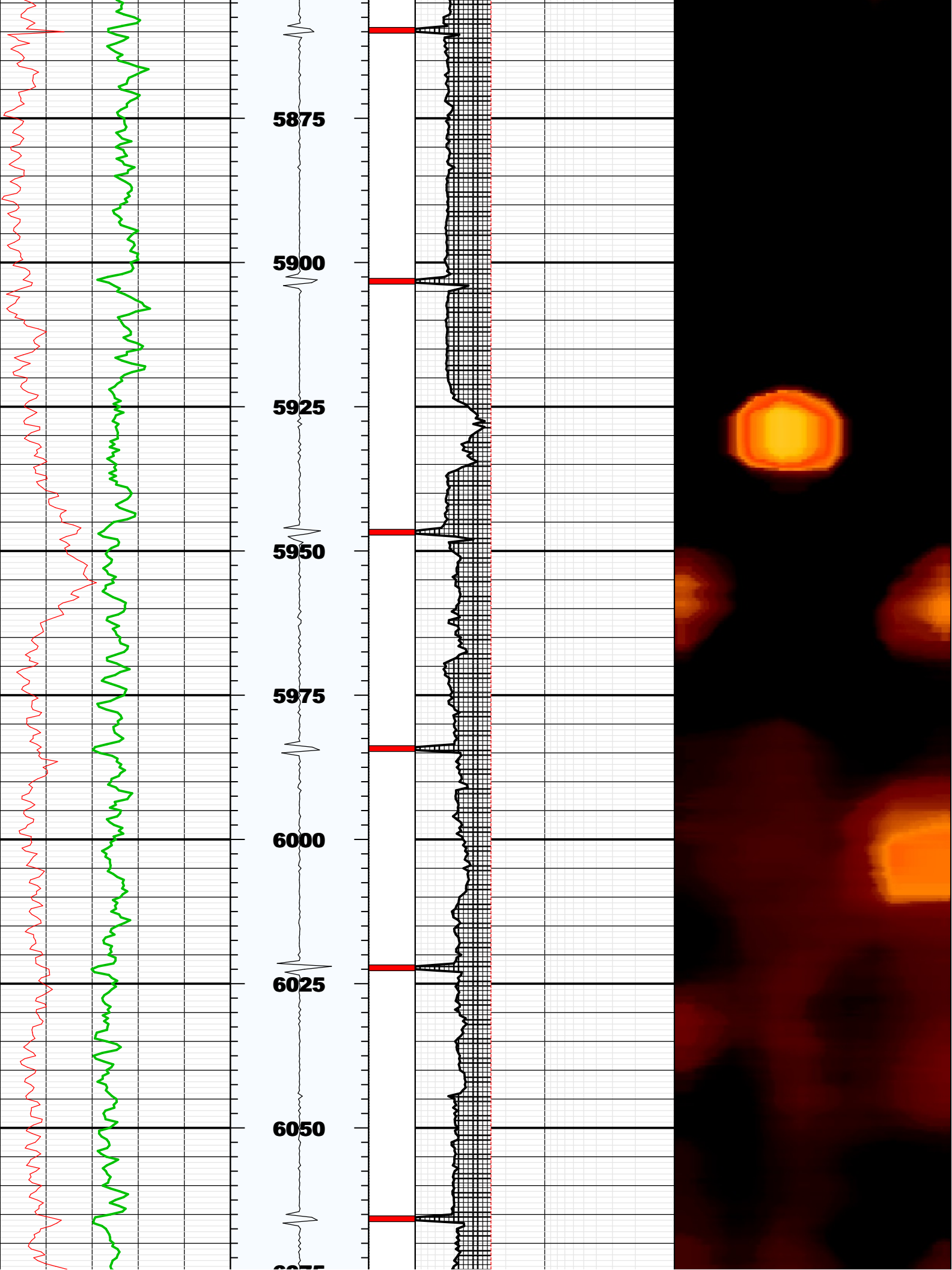


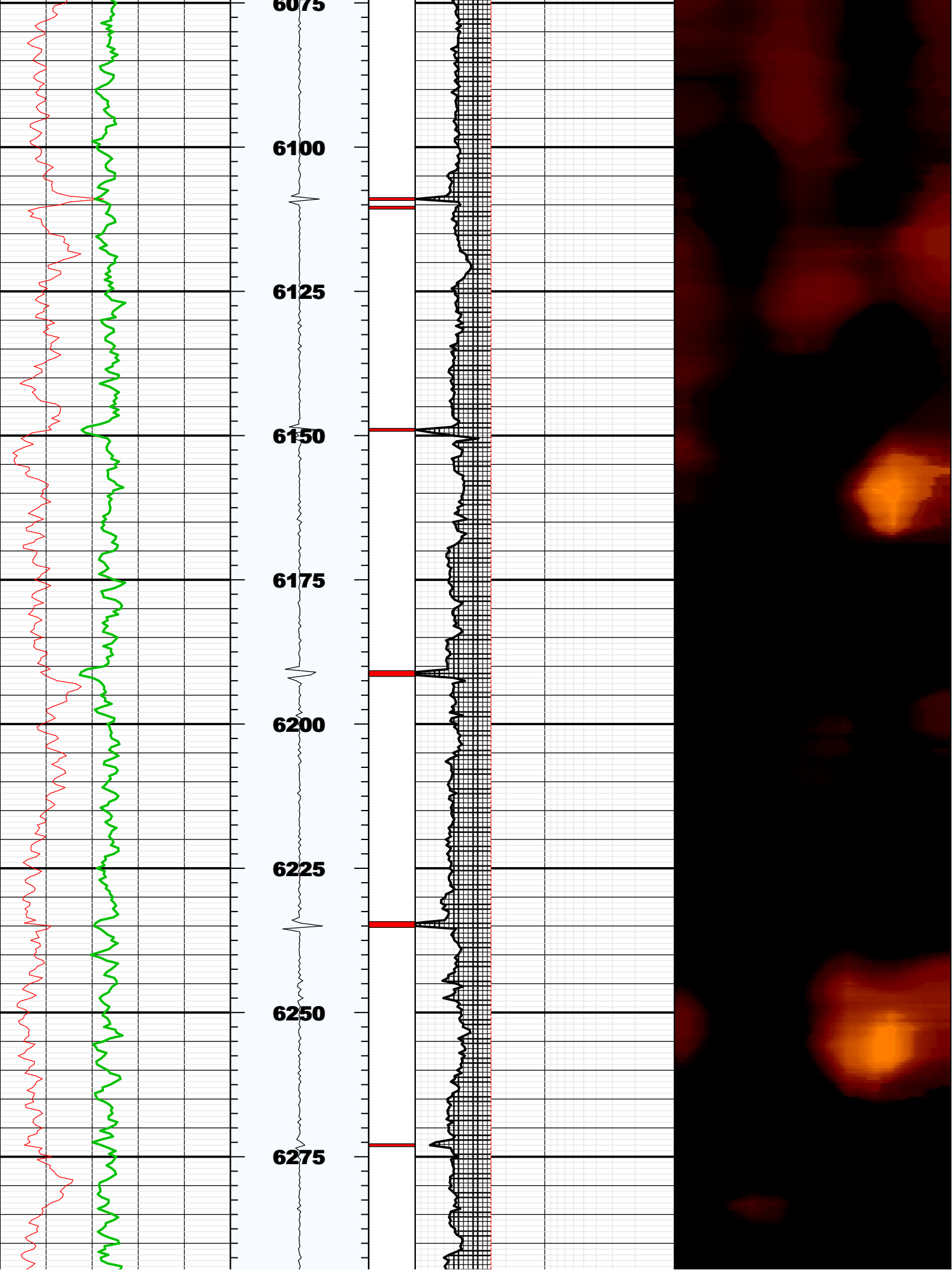


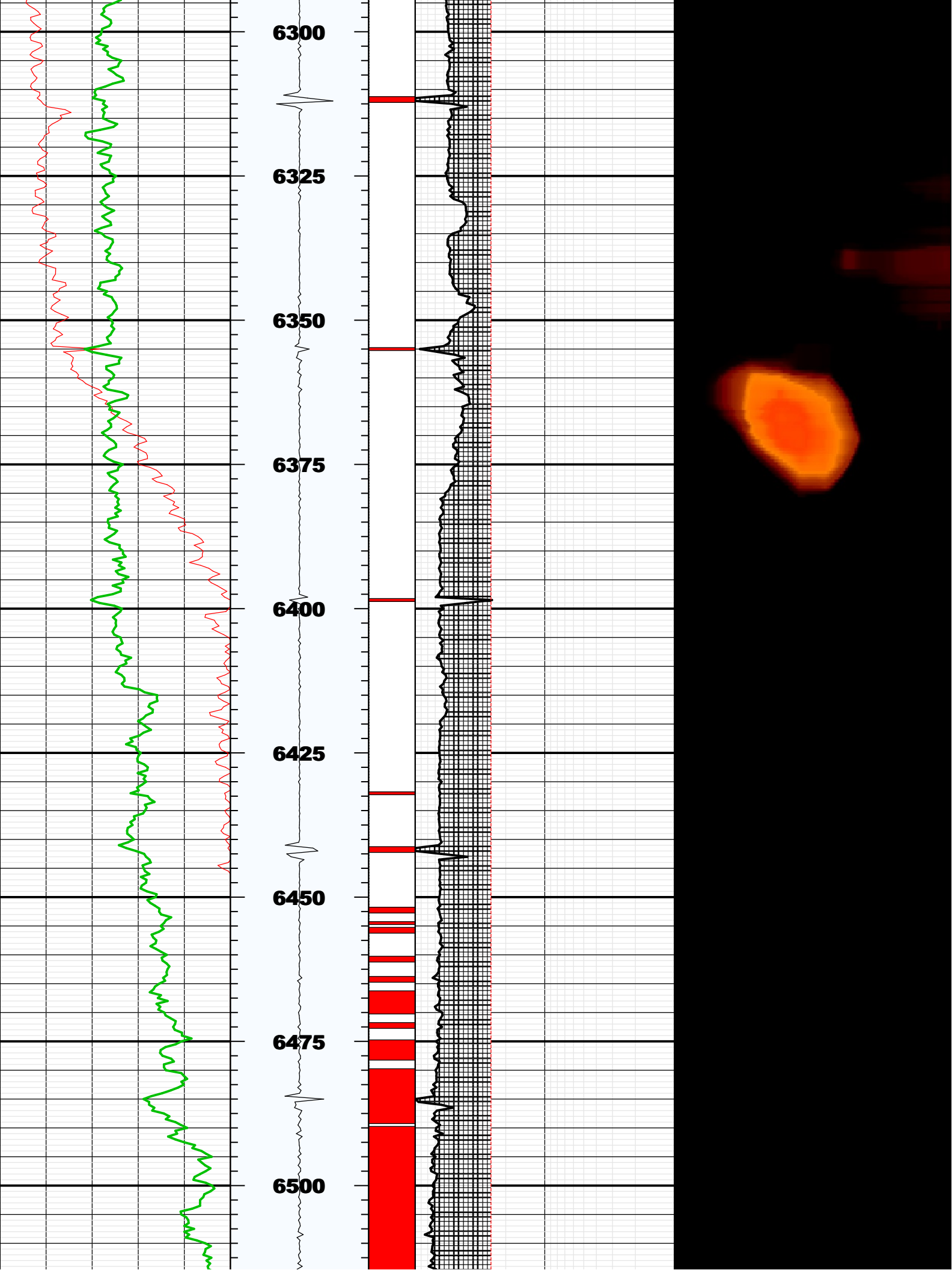


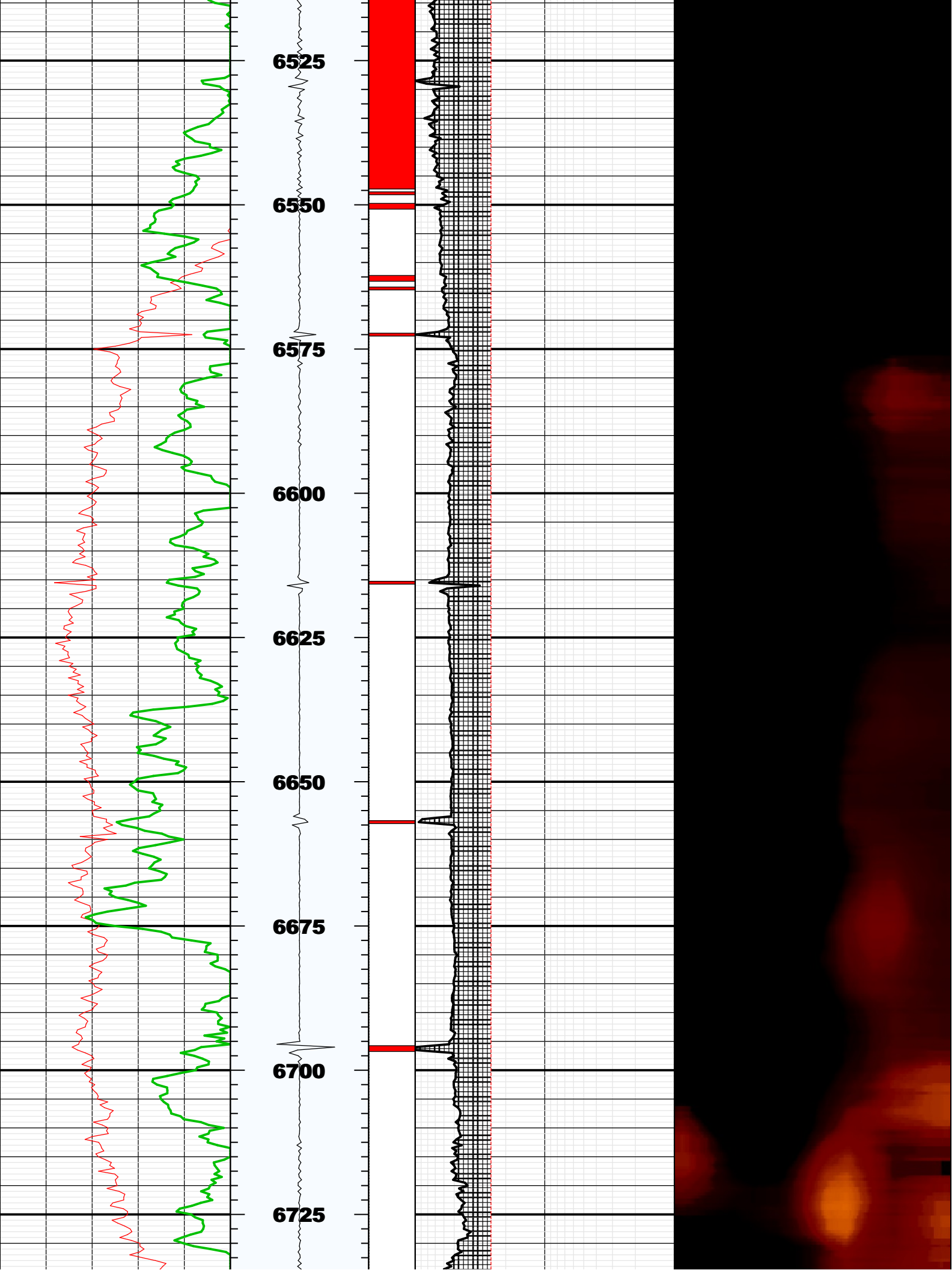


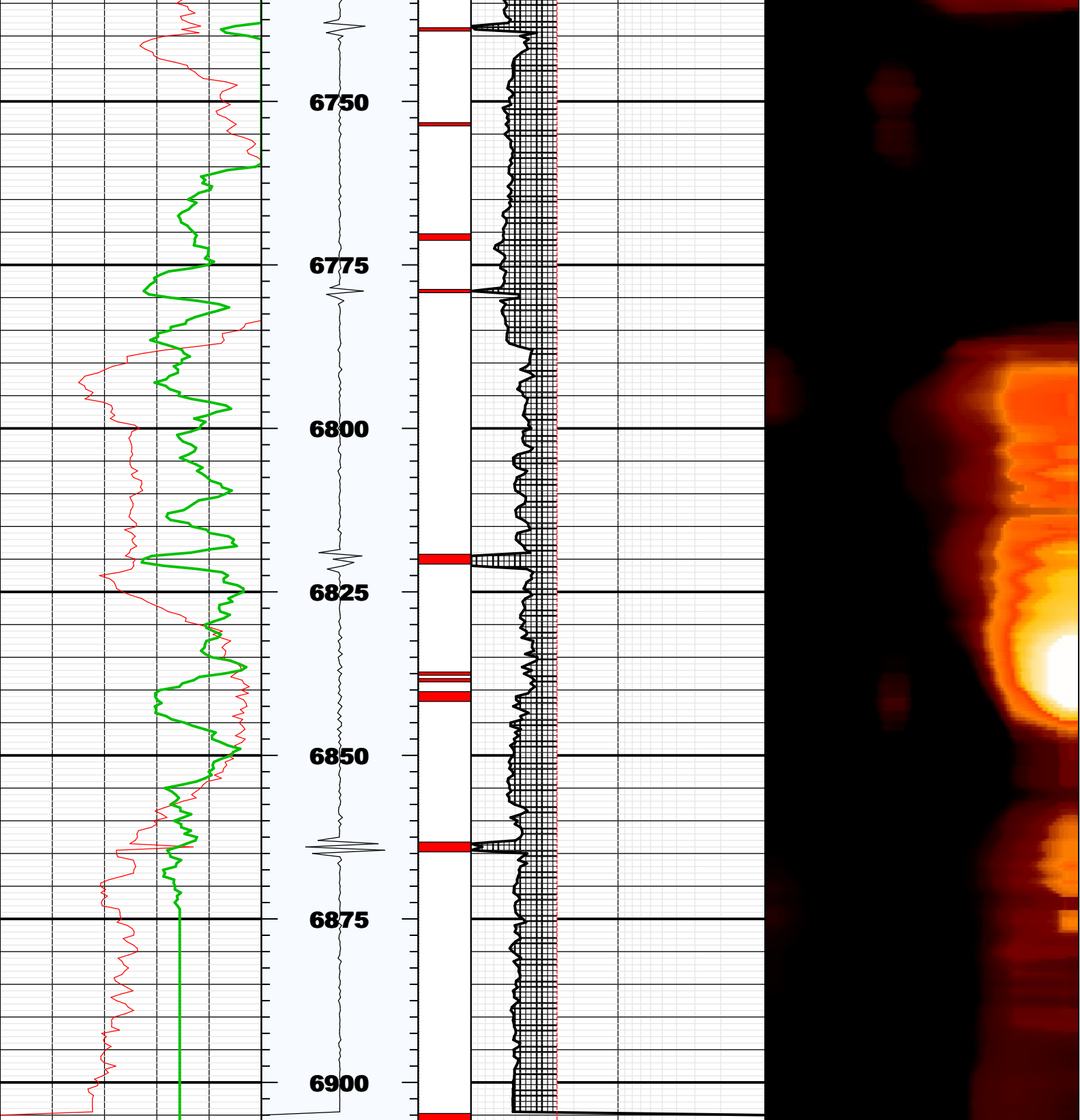








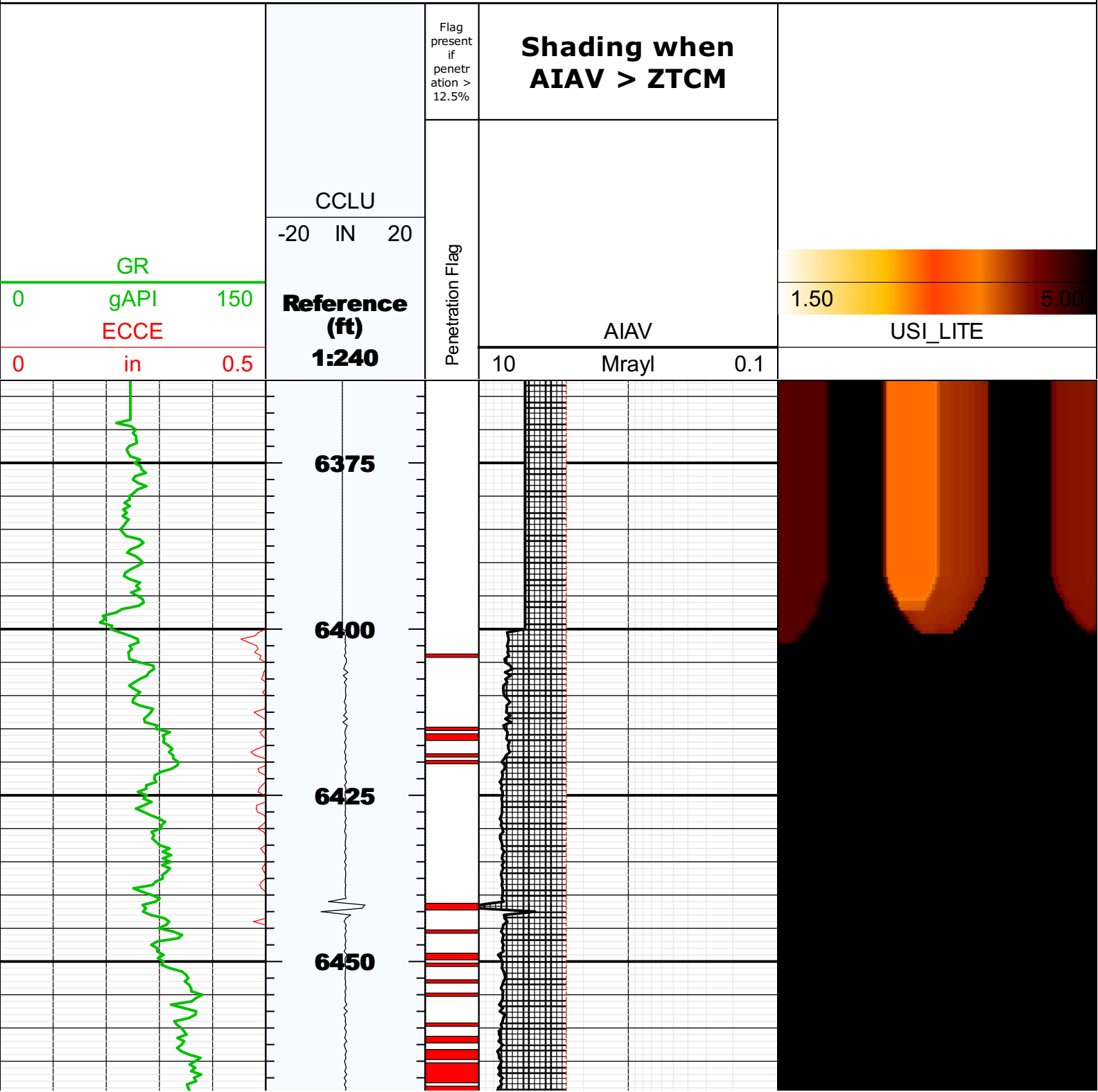


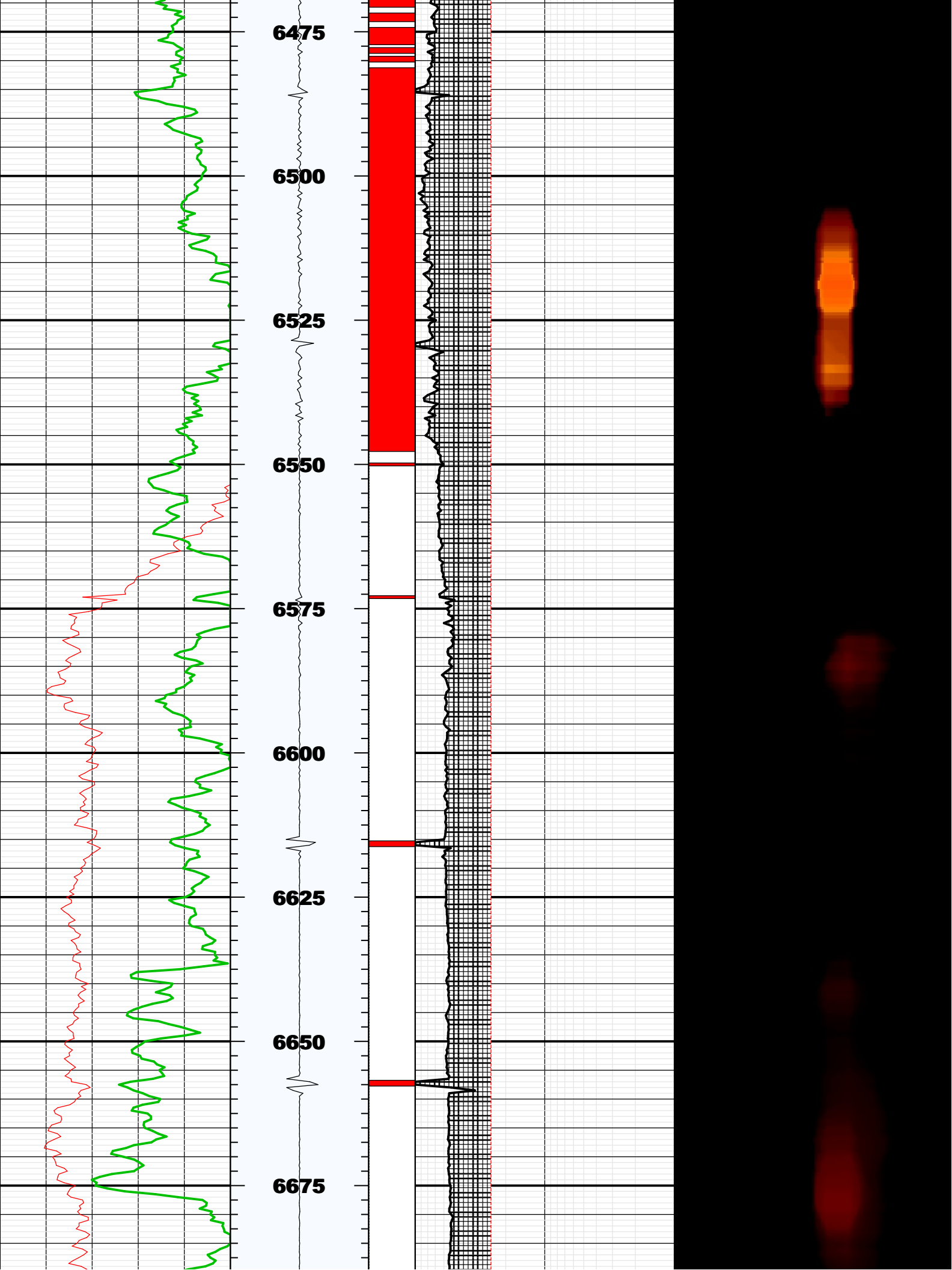


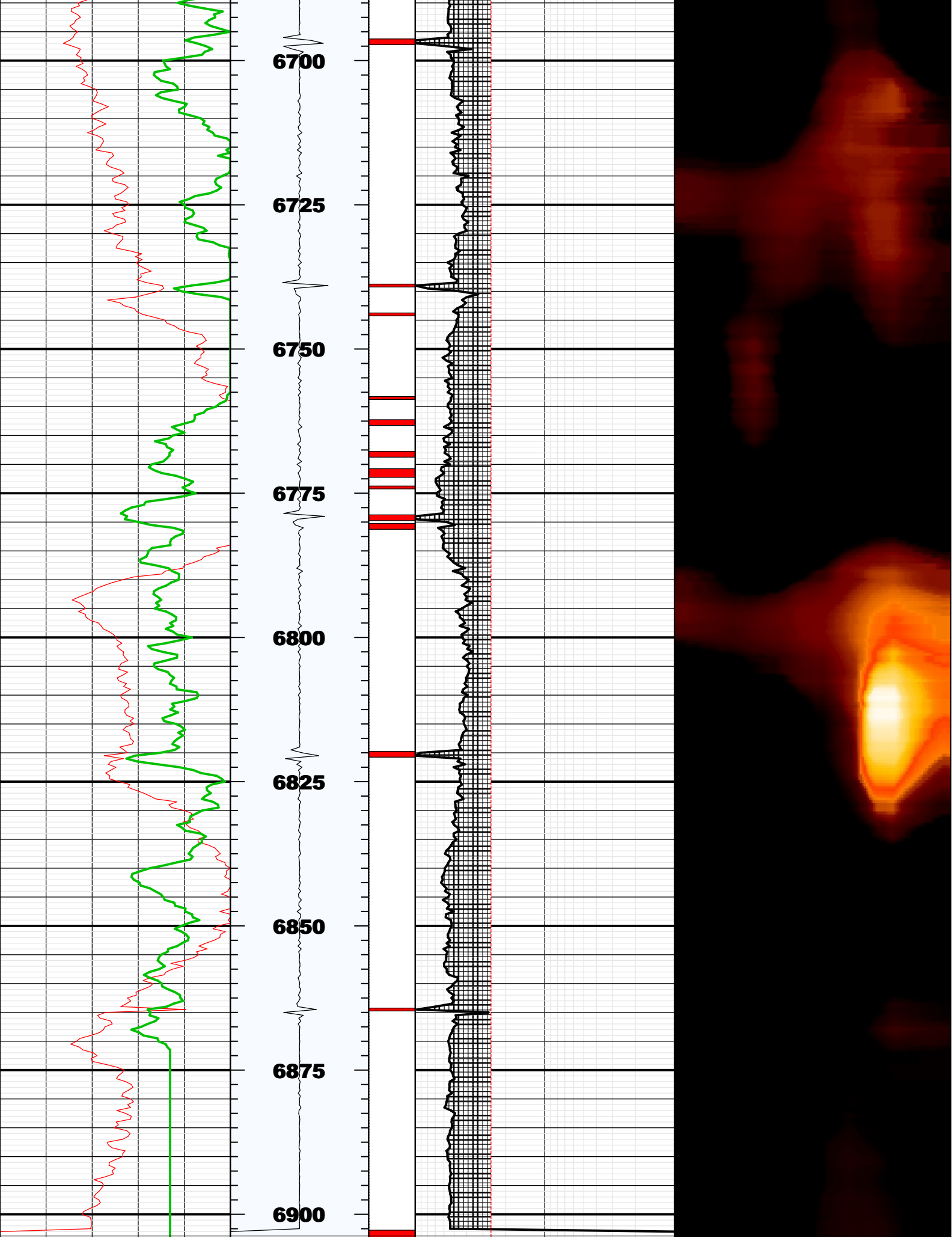
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID	6.27600	IN	Casing Inner Diameter
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.70000	LB/G	Drilling Fluid Density
DFVL	206.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	61	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	23.19619	US	Window Begin Time
WINE	86.79438	US	Window End Time
ZCAS	46.25000	MRAY	Acoustic Impedance of Casing
ZINI	-1.00000	MRAY	Initial Estimate of Cement Impedance
ZMUD	1.48000	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: Colt A13-655
Field: Wattenberg







Fluid Properties Used for Main Pass

