

Company: Noble Energy Inc

Well: NCLP AA06-69-1HNA
Field: Wattenberg
County: Weld State: Colorado

County: Weld		USI-LITE	
Field: Wattenberg			
Location: NWNW Sec. 4 T6N R63W			
Well: NCLP AA06-69-1HNA			
Company: Noble Energy Inc			
LOCATION			
Permanent Datum:		Elev: K.B. 4741.0 F	
Log Measured From:		G.L. 4711.0 F	
Drilling Measured From:		D.F. 4740.0 F	
GL			
KB			
KB			
API Serial No.			
05-123-39121-0000			
Section 4			
Township 6N			
Range 63W			
Logging Date		26-Jul-2014	
Run Number		Run1 USIT	
Depth Driller		11242.0 F	
Schlumberger Depth		11242.0 F	
Bottom Log Interval		6811.0 F	
Top Log Interval		-999.2 F	
Casing Fluid Level		0.0 F	
Salinity			
Density		10.00 LB/G	
Fluid Level		0.0 F	
BIT/CASING/TUBING STRING			
Bit Size		8.750 IN	
From		-999.2 F	
To		11242.0 F	
Casing Size		7.00 IN	
Weight		26.00 LB/F	
Grade		P110	
From		0.0 F	
To		6996.0 F	
Max Recorded Temp		230.0	
Logger on bottom (date)		26-Jul-2014	
Location		Fl. Morgan CO	
Recorded By		Tim Hoffman	
Witnessed By		Bill Mansfield	

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: Calibration Date: Calibrator Serial Number: Number Of Calibration Points: Calibration RMS: Calibration Peak Error:	Serial Number: Length: 24000.00000

DISCLAIMER

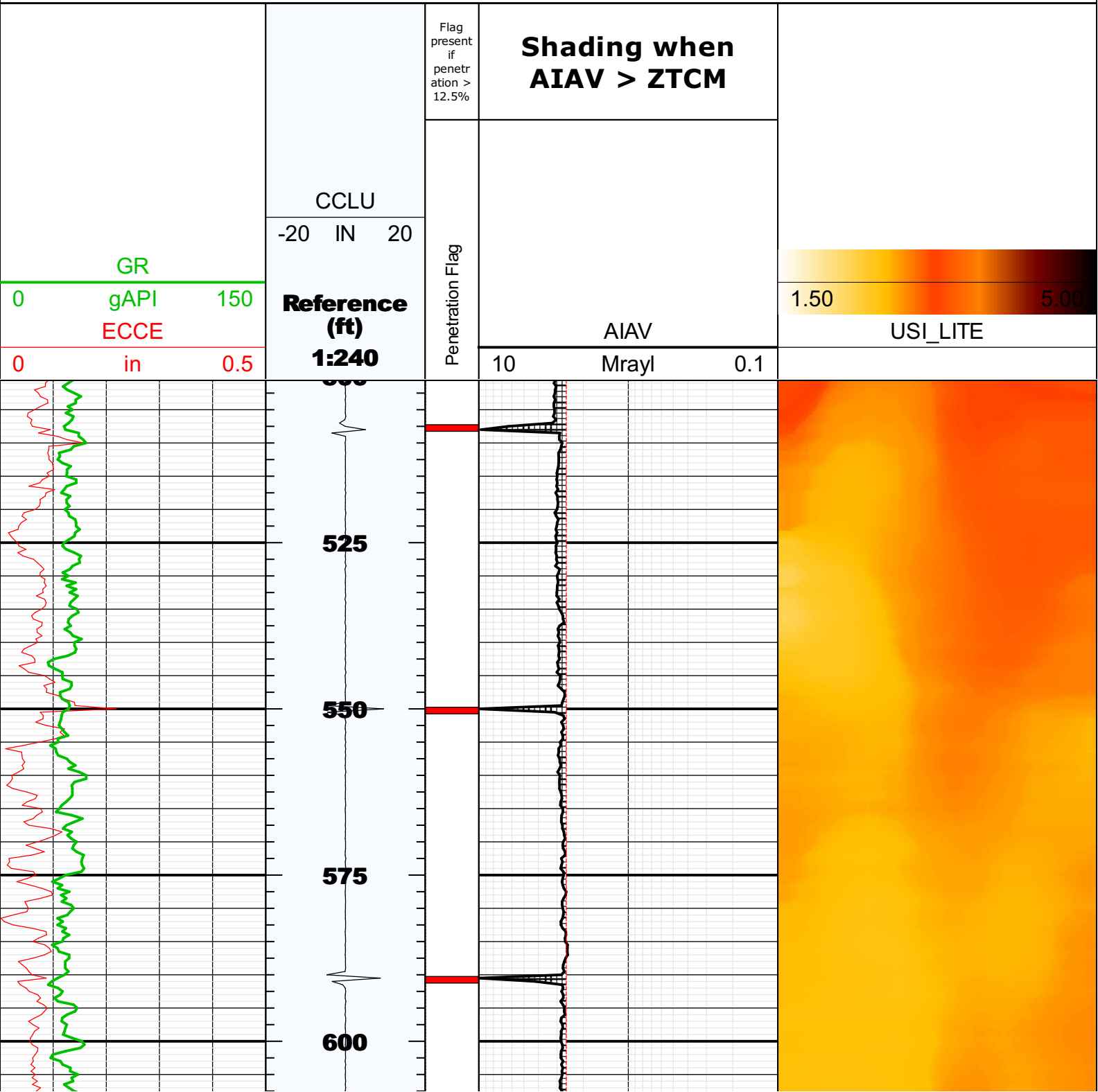
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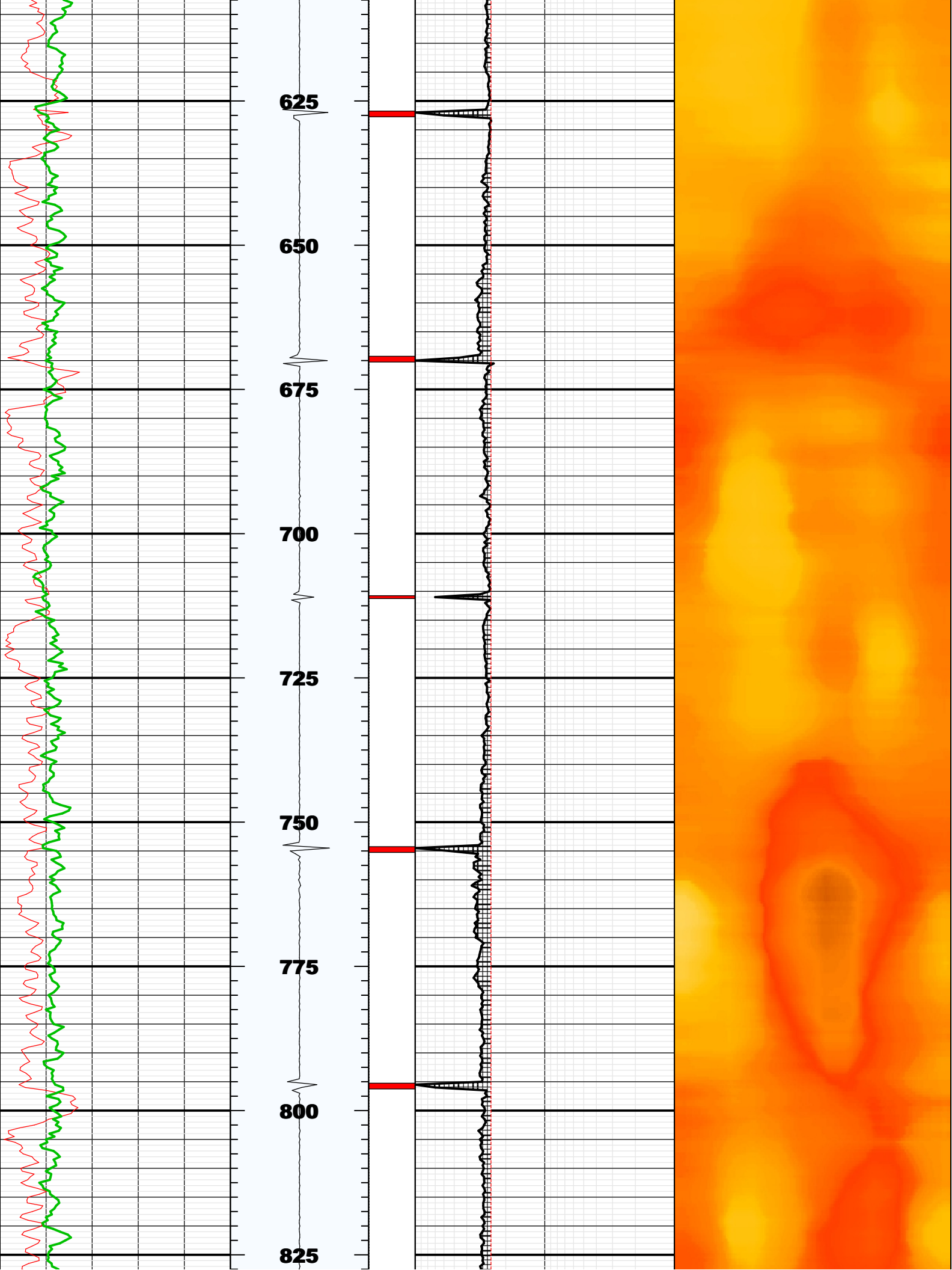
This is the first run in hole
Toolstring run as per tool sketch
13.6 ppg single slurry cement
Well logged twice once at 0 PSI and once at 2500 PSI
0 PSI log stopped at 500 feet because hydrostatic pressure too low for tool to function properly

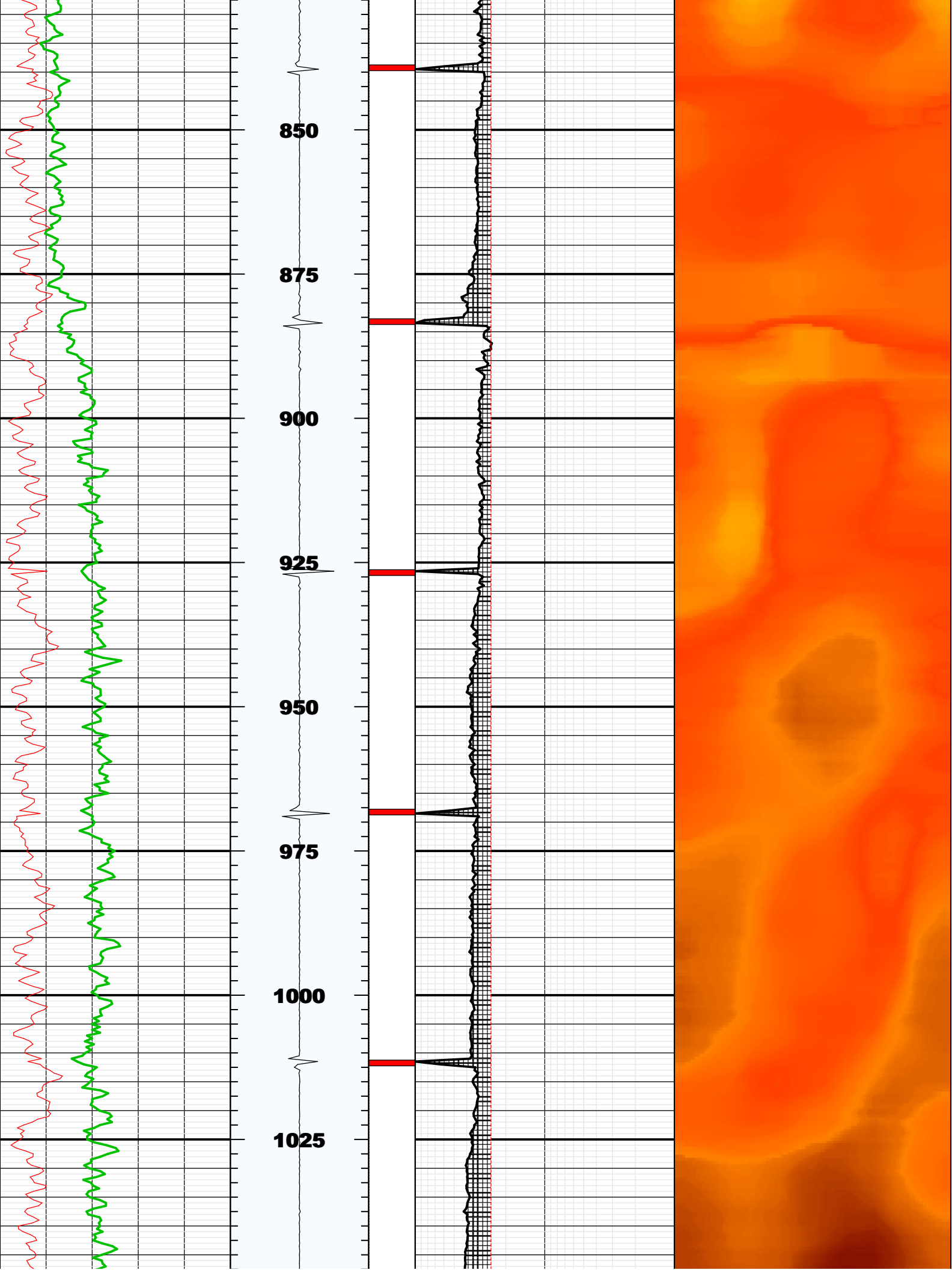
Bottom log temperature 230 degF
Top of cement 640 ft
Crew Jake Jump Troy Ocanas

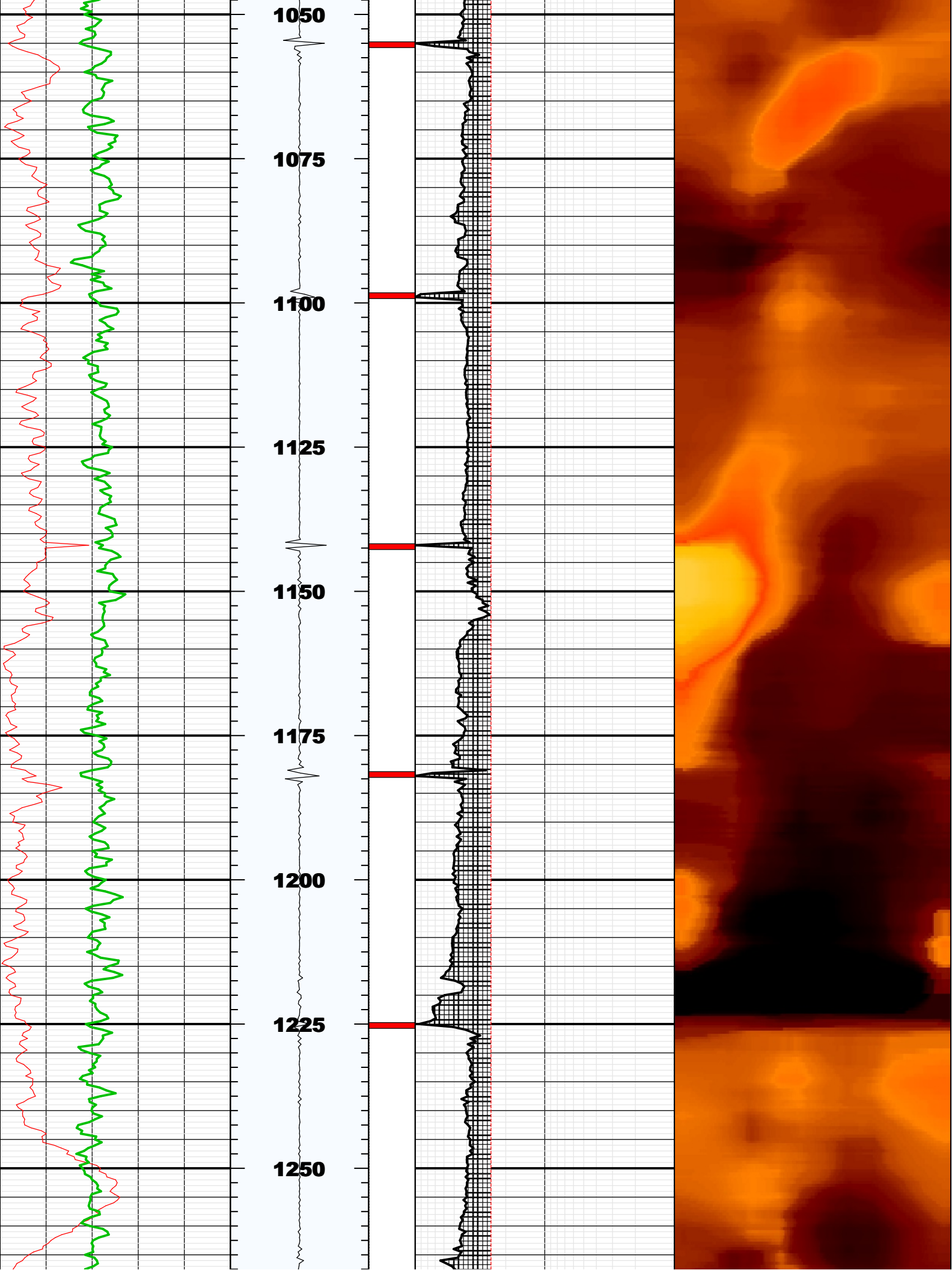
Main Pass

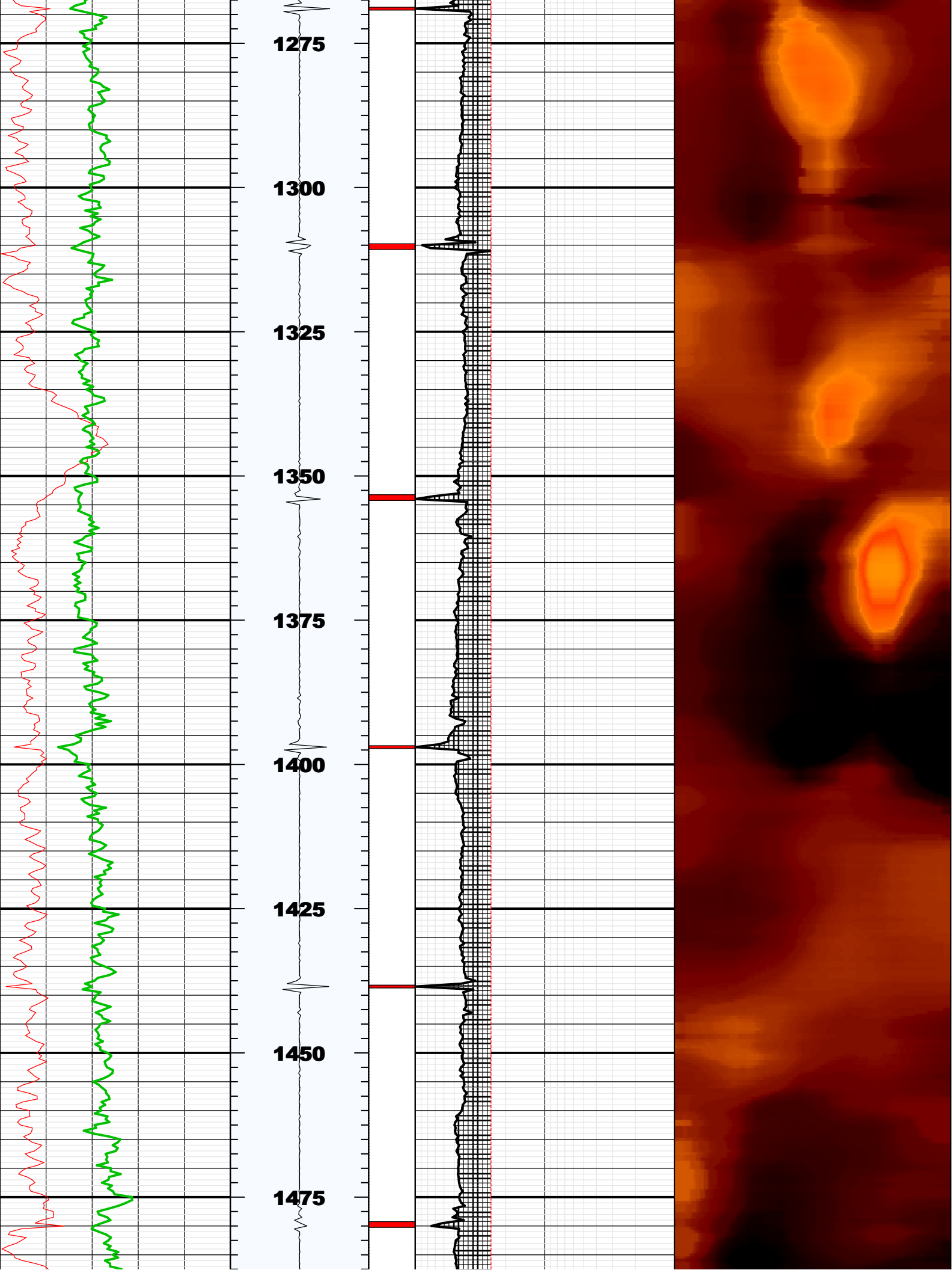
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Well: NCLP AA06-69-1HNA
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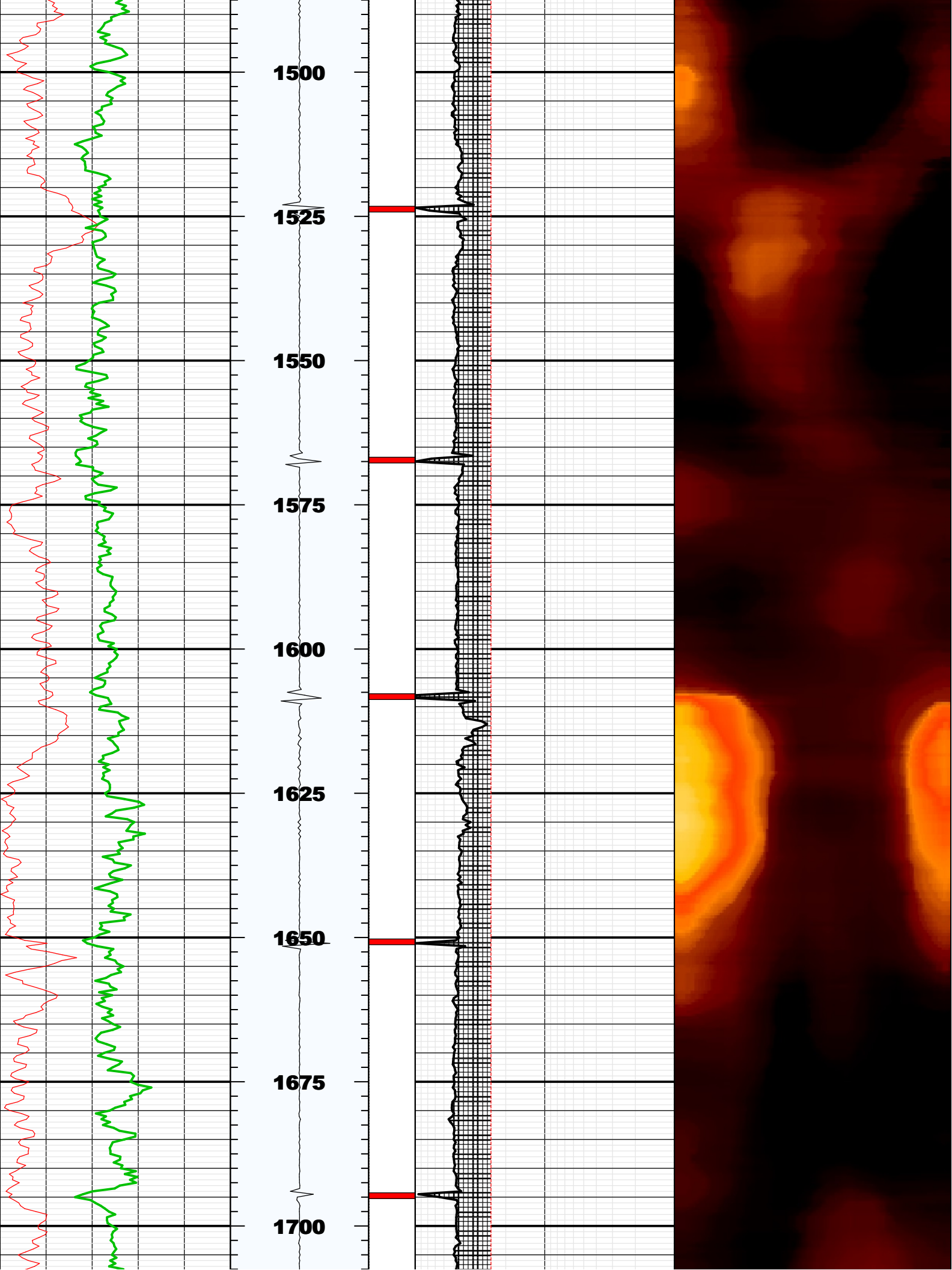


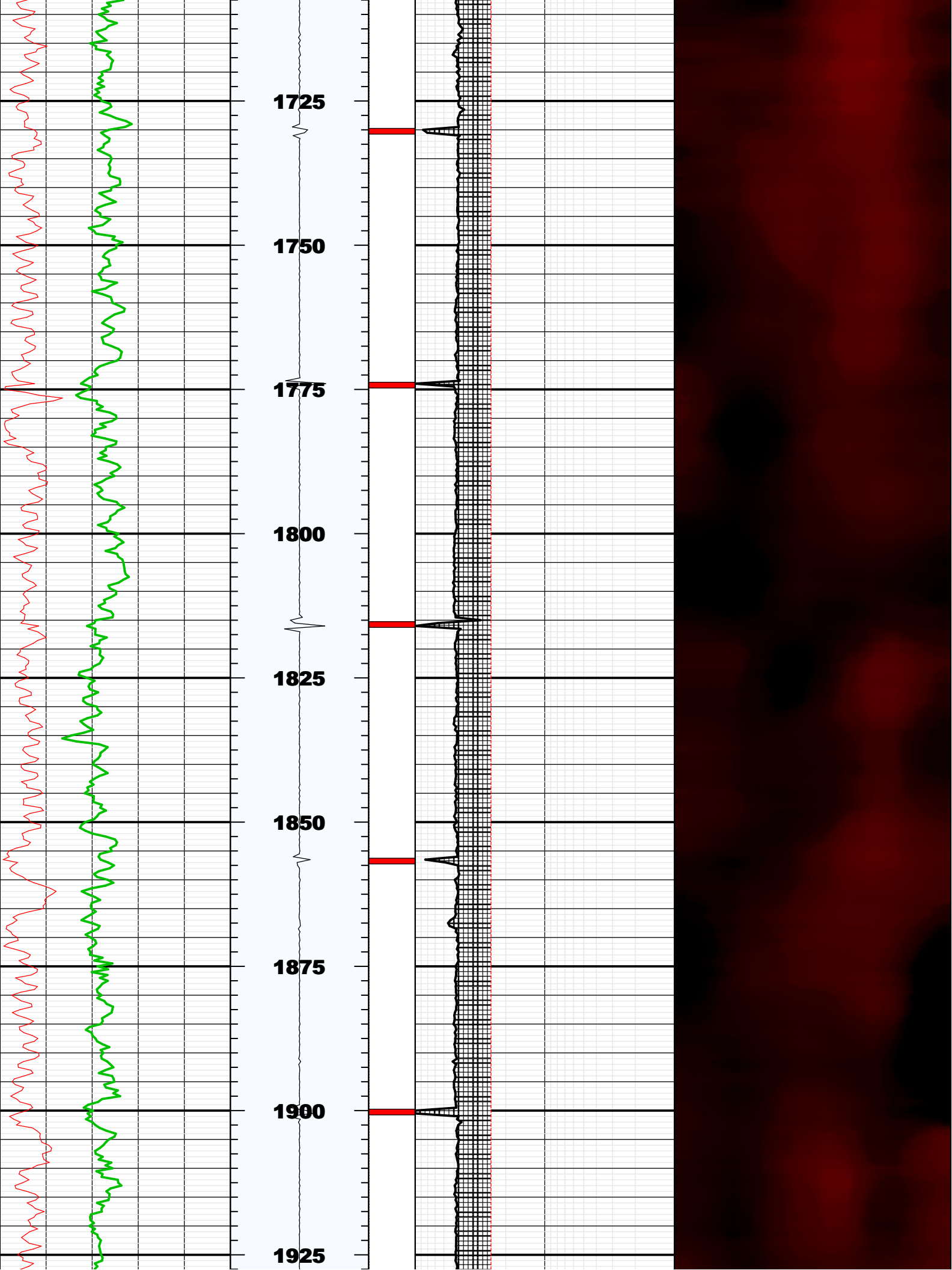


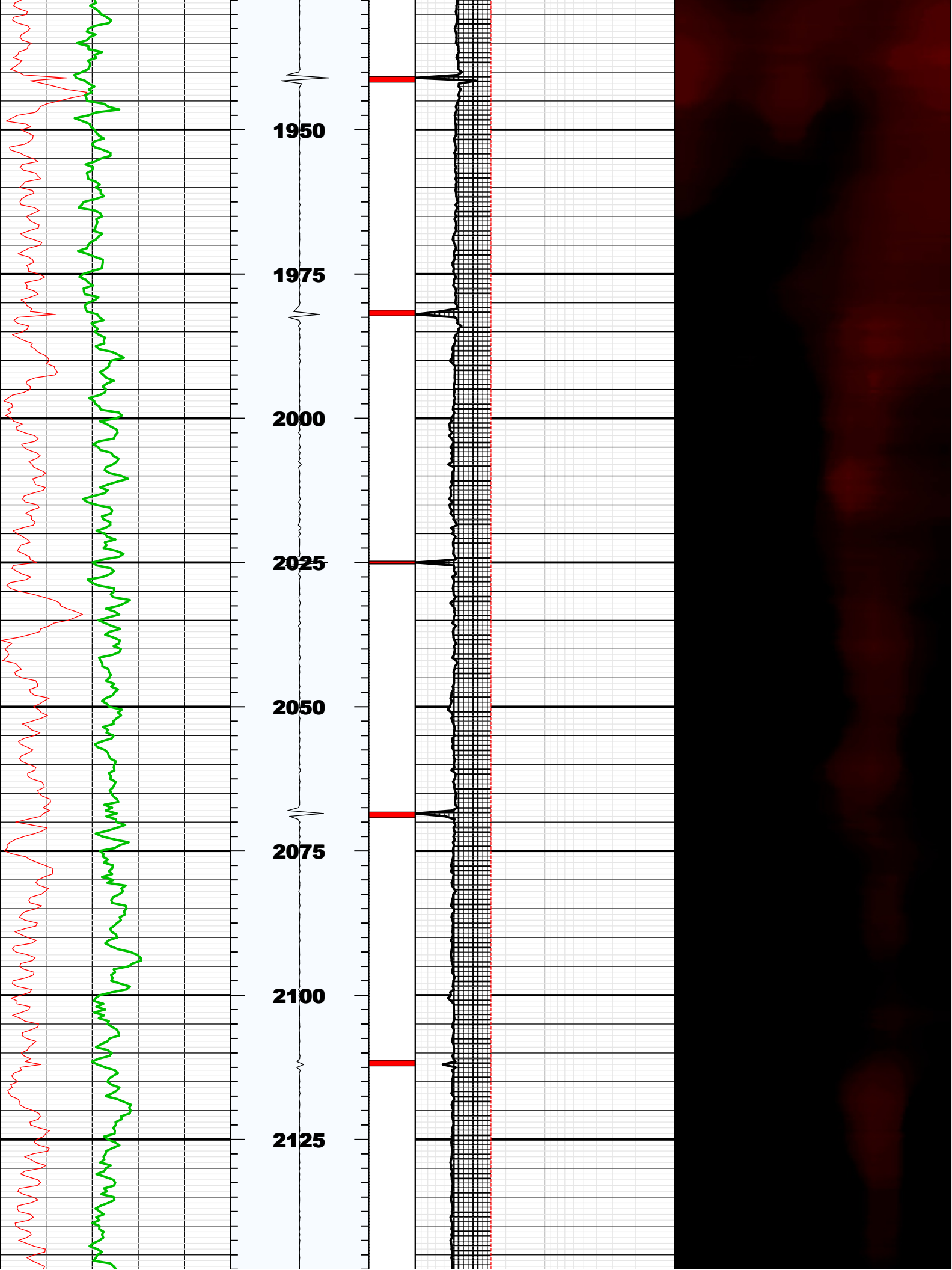


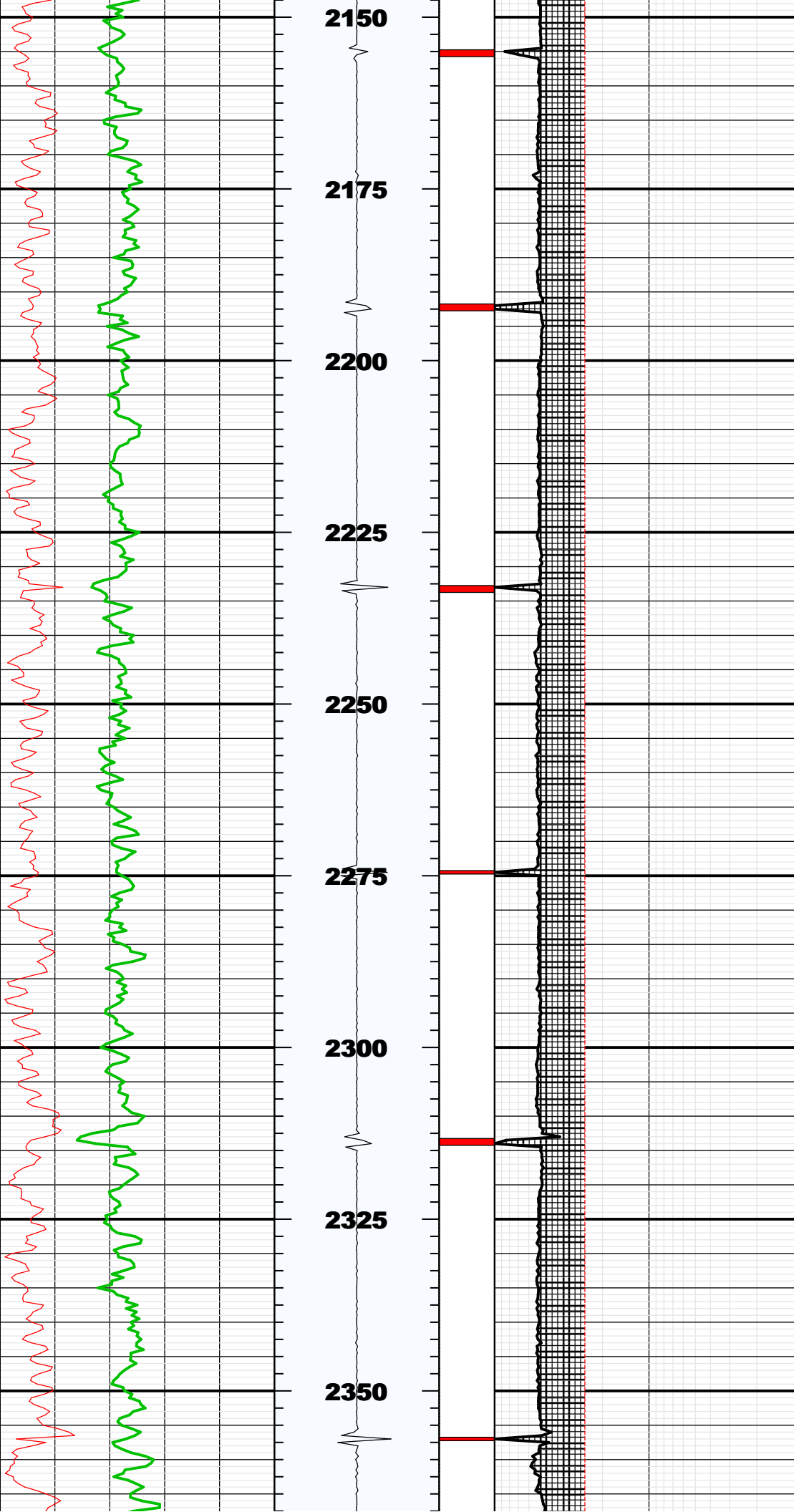


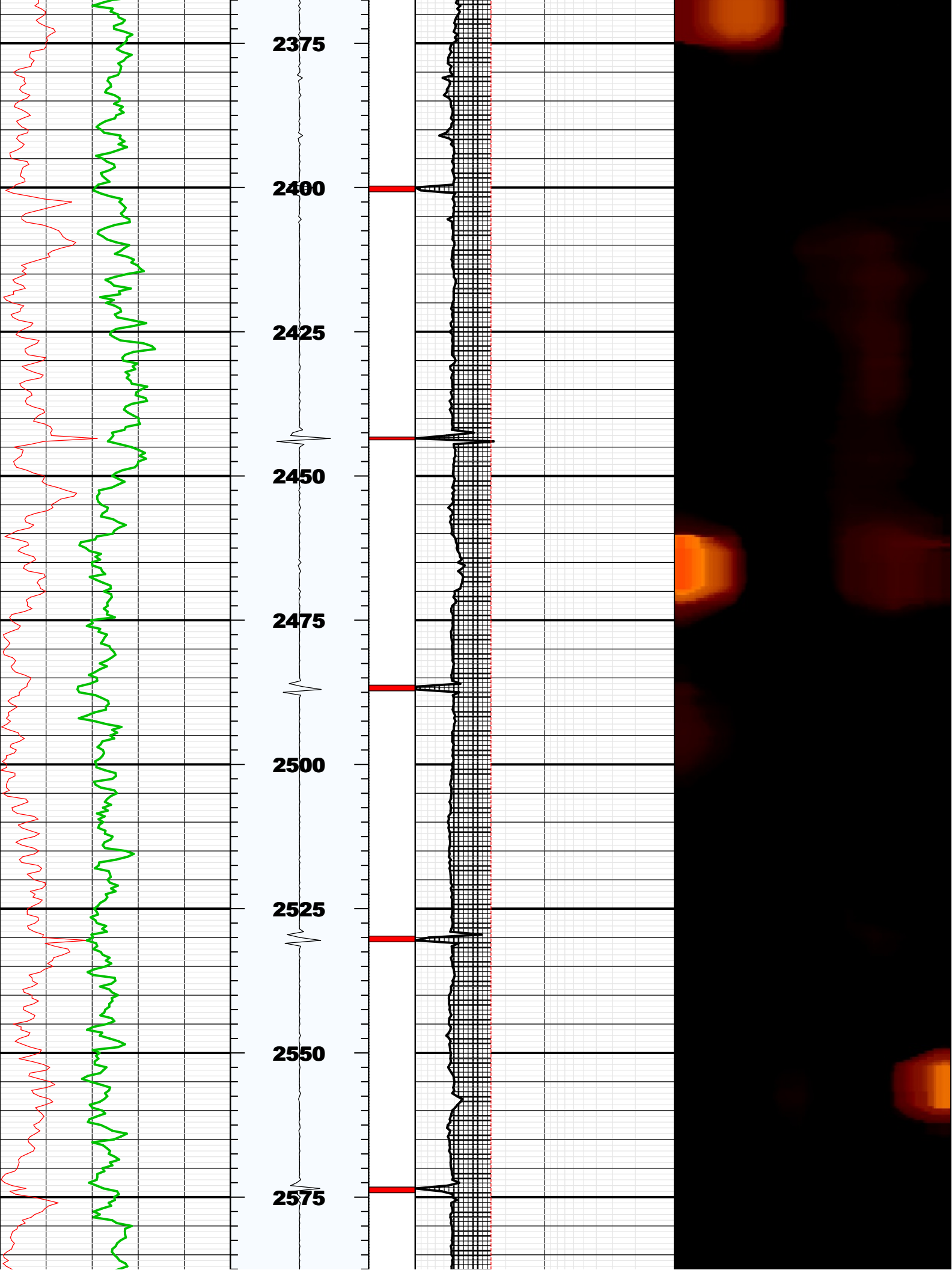


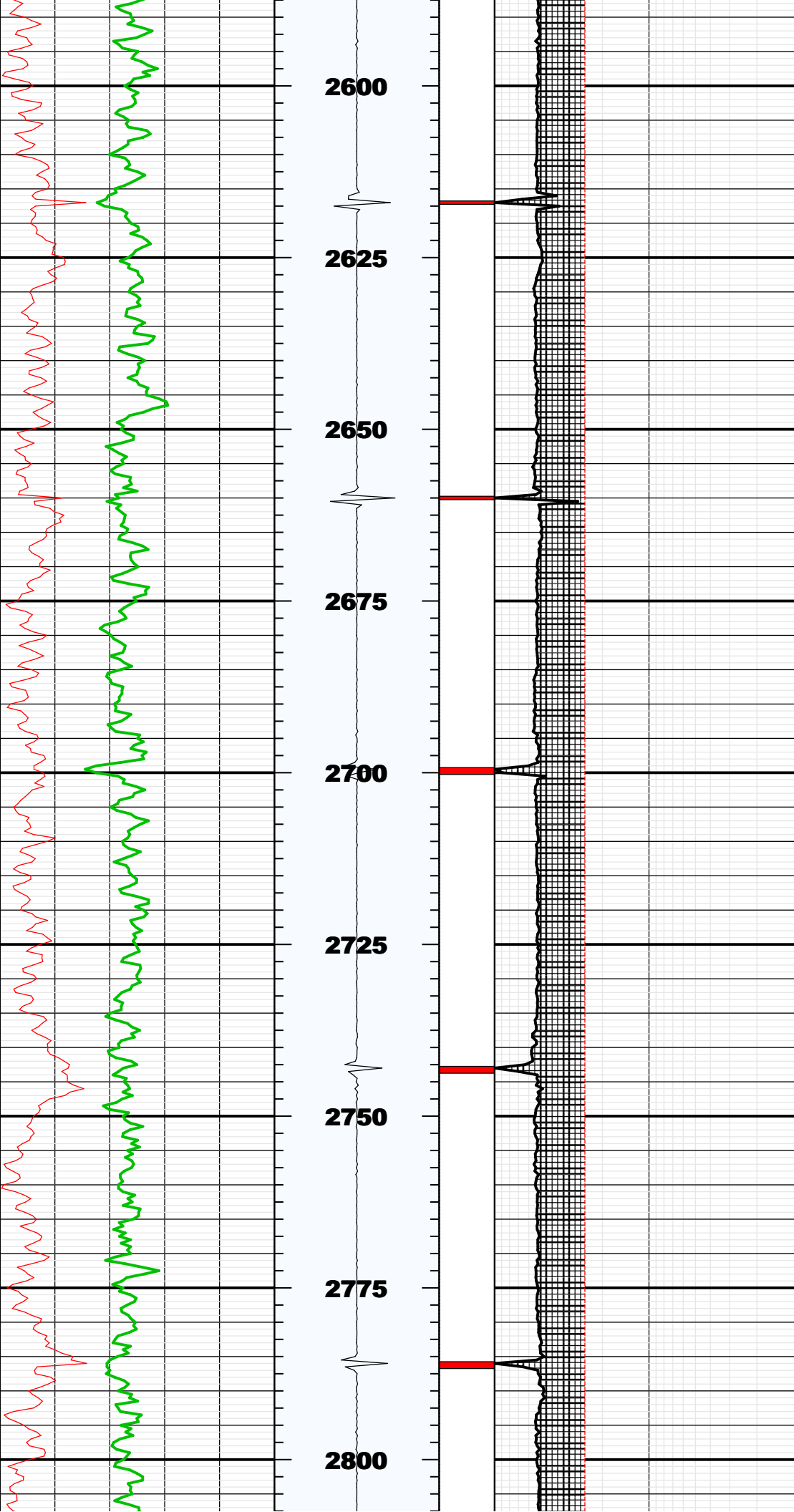


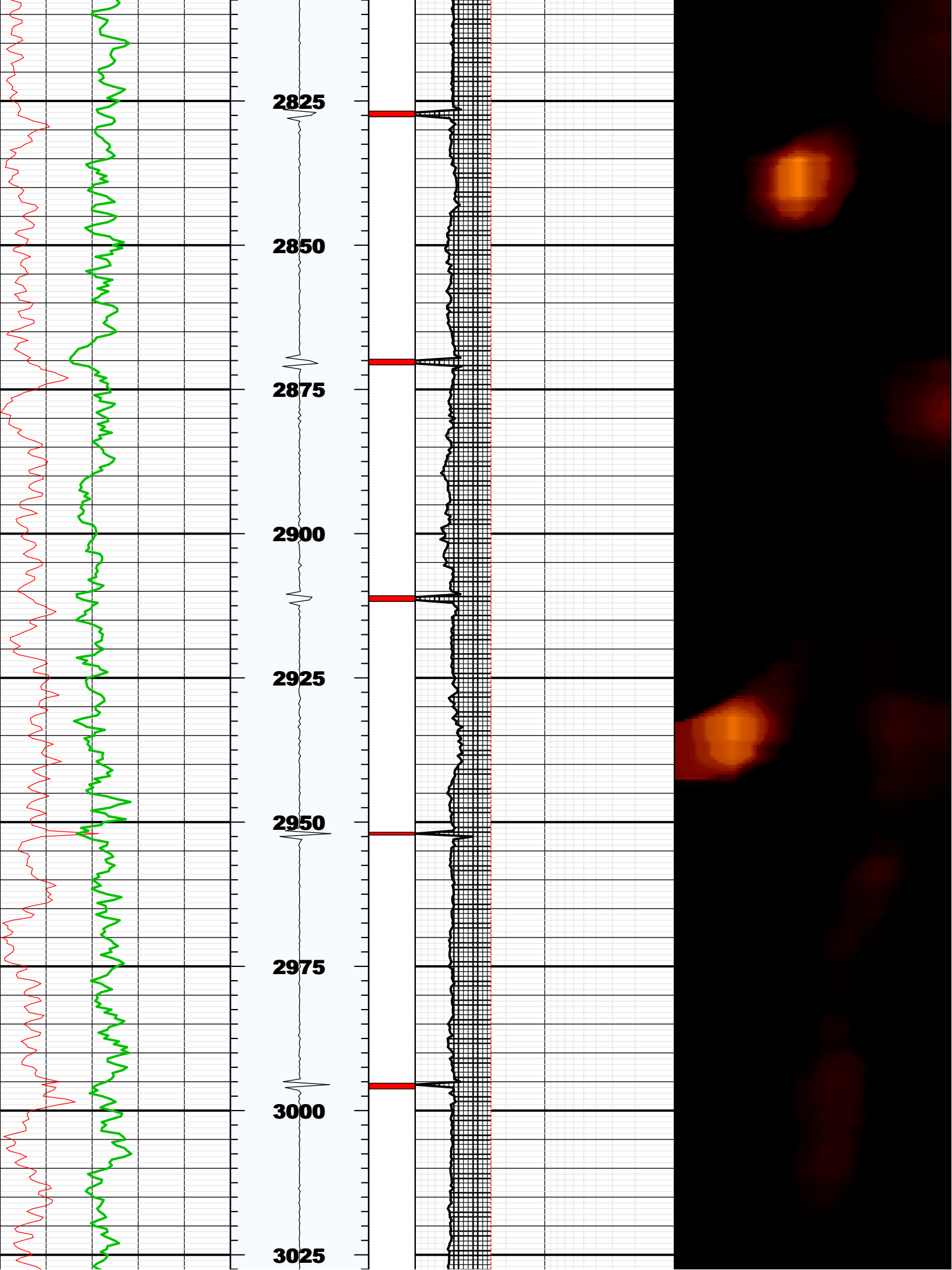


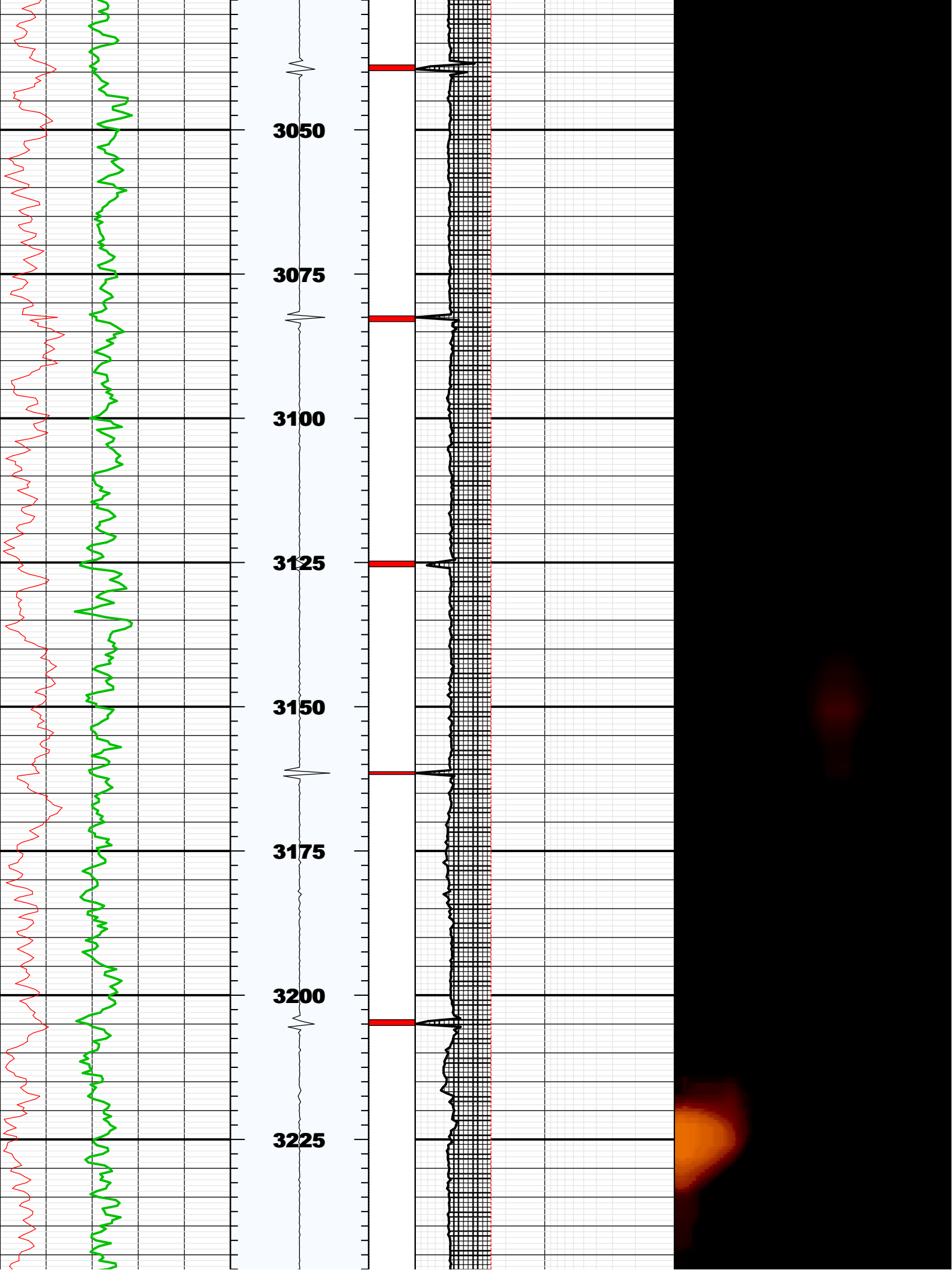


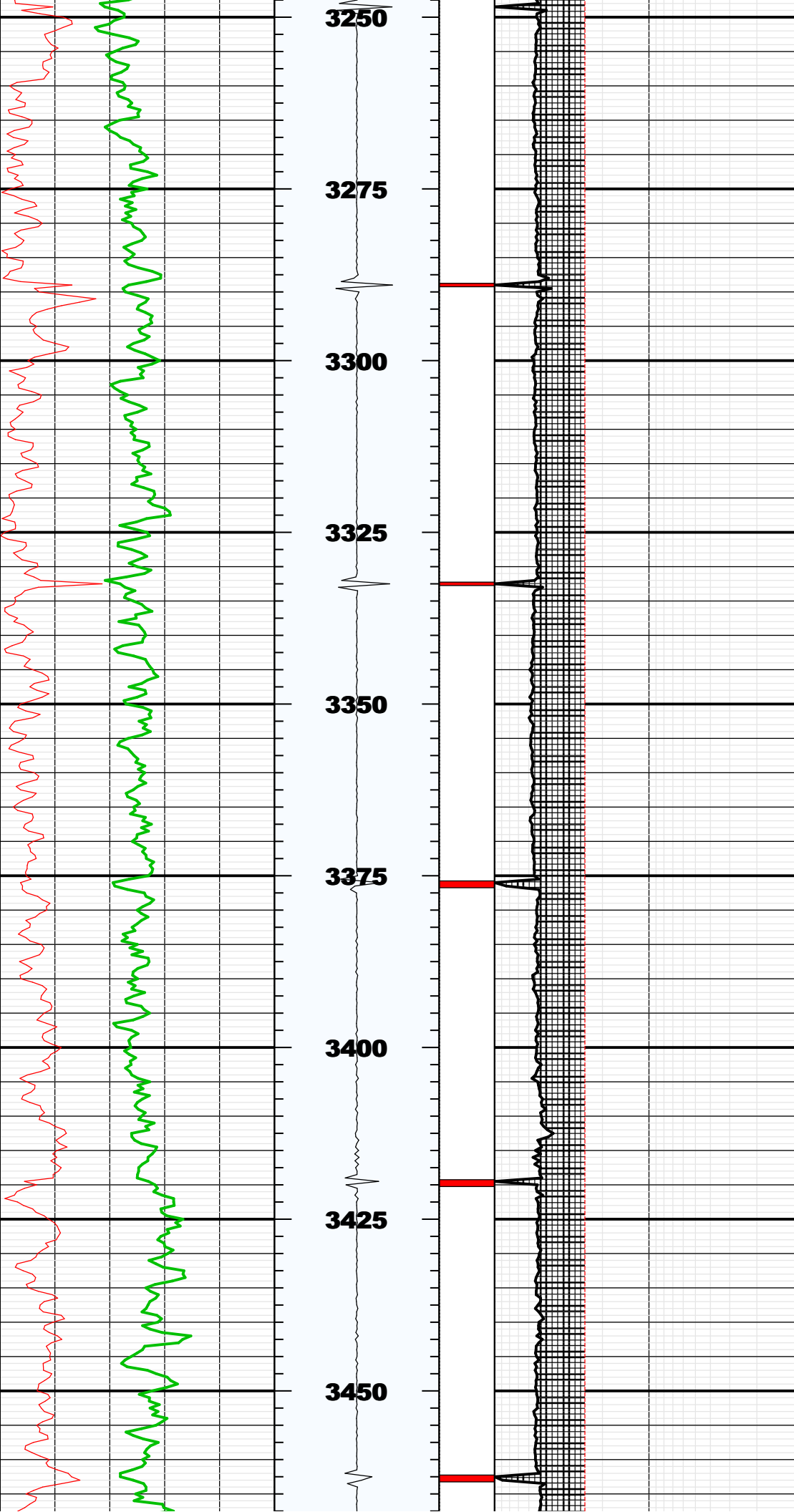


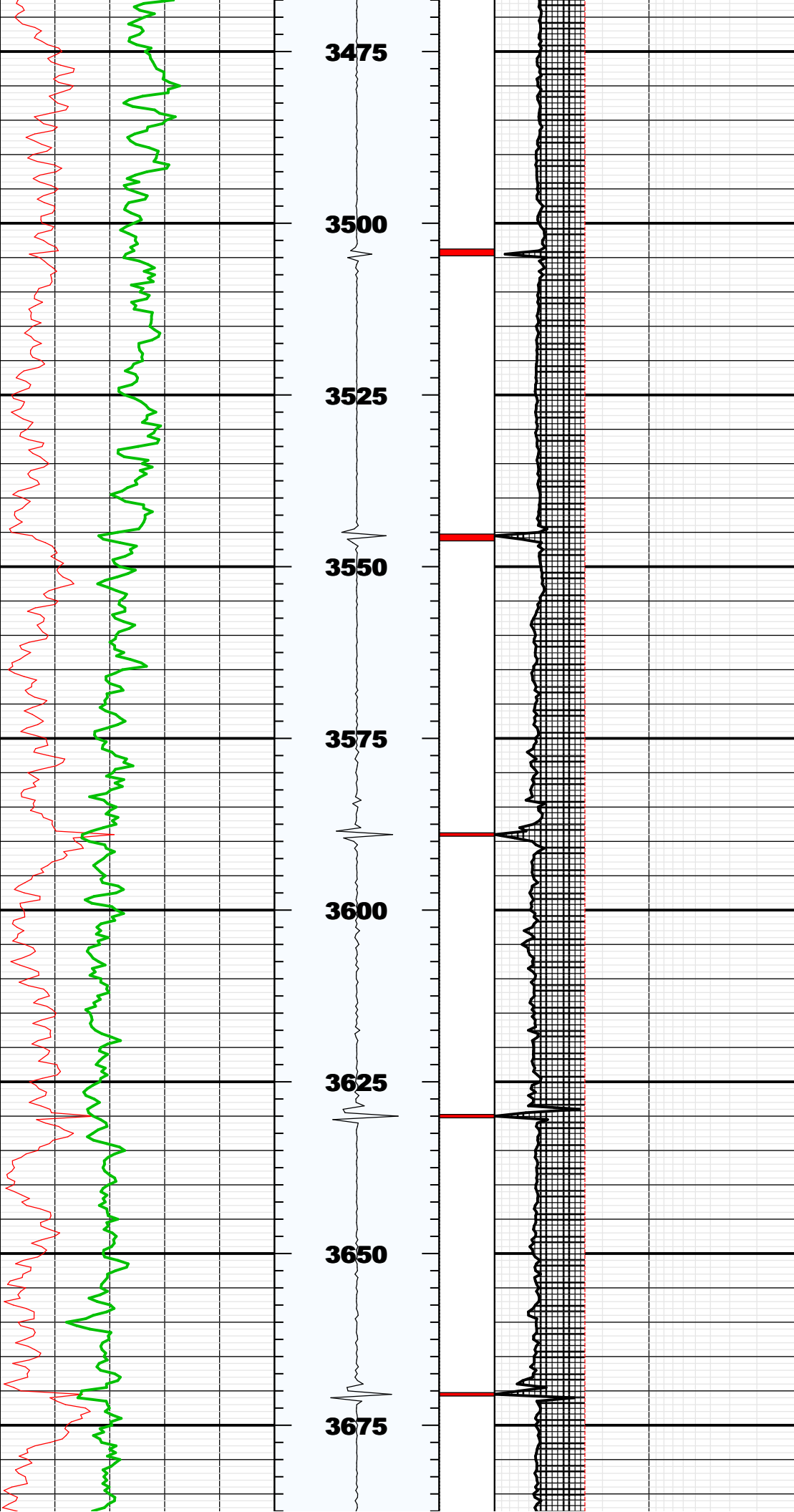


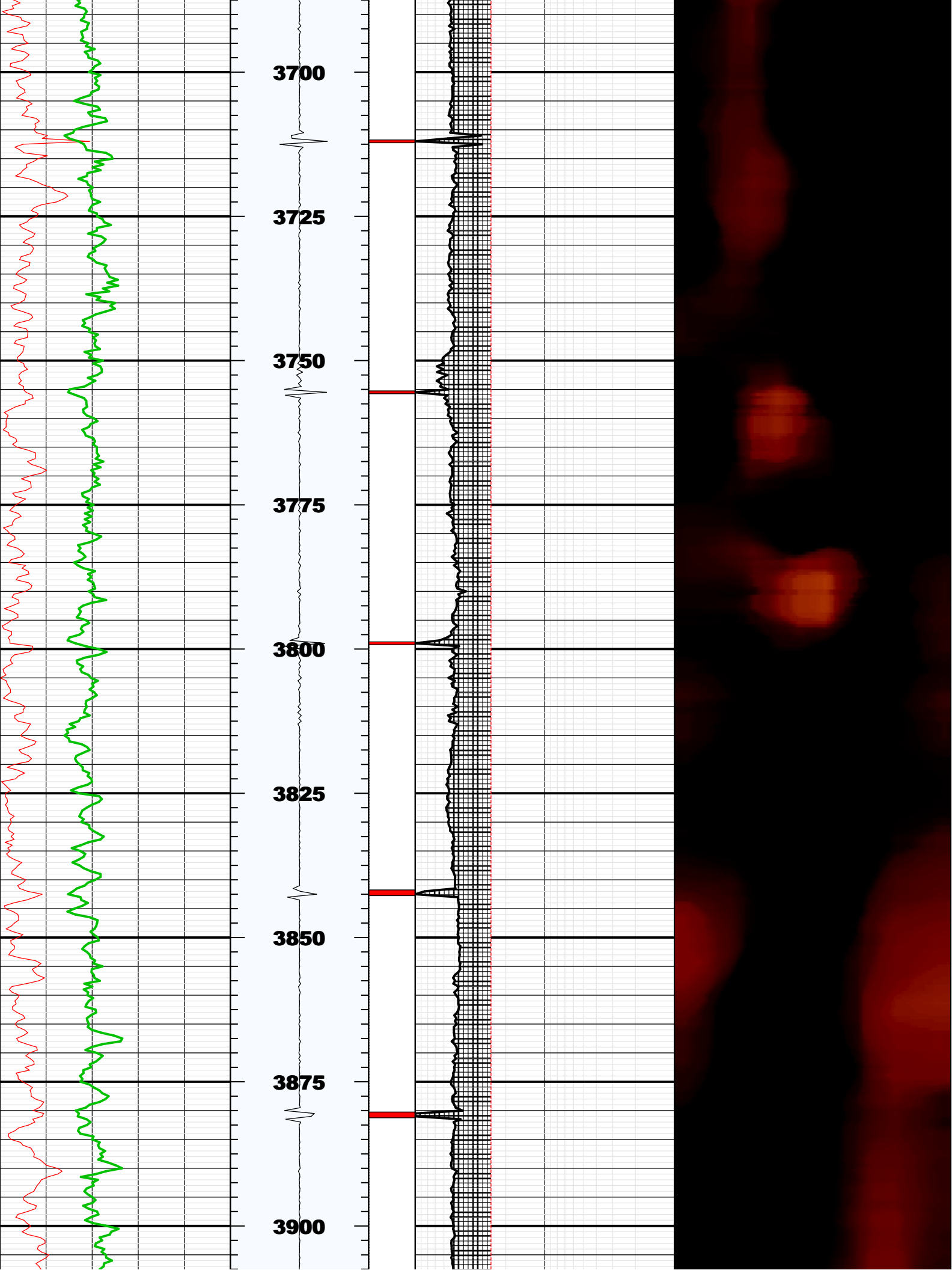


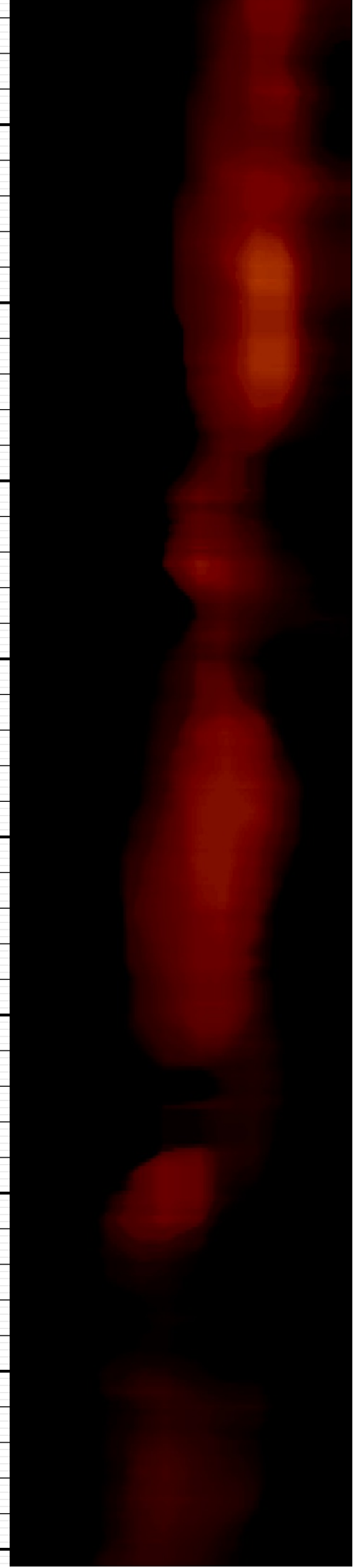
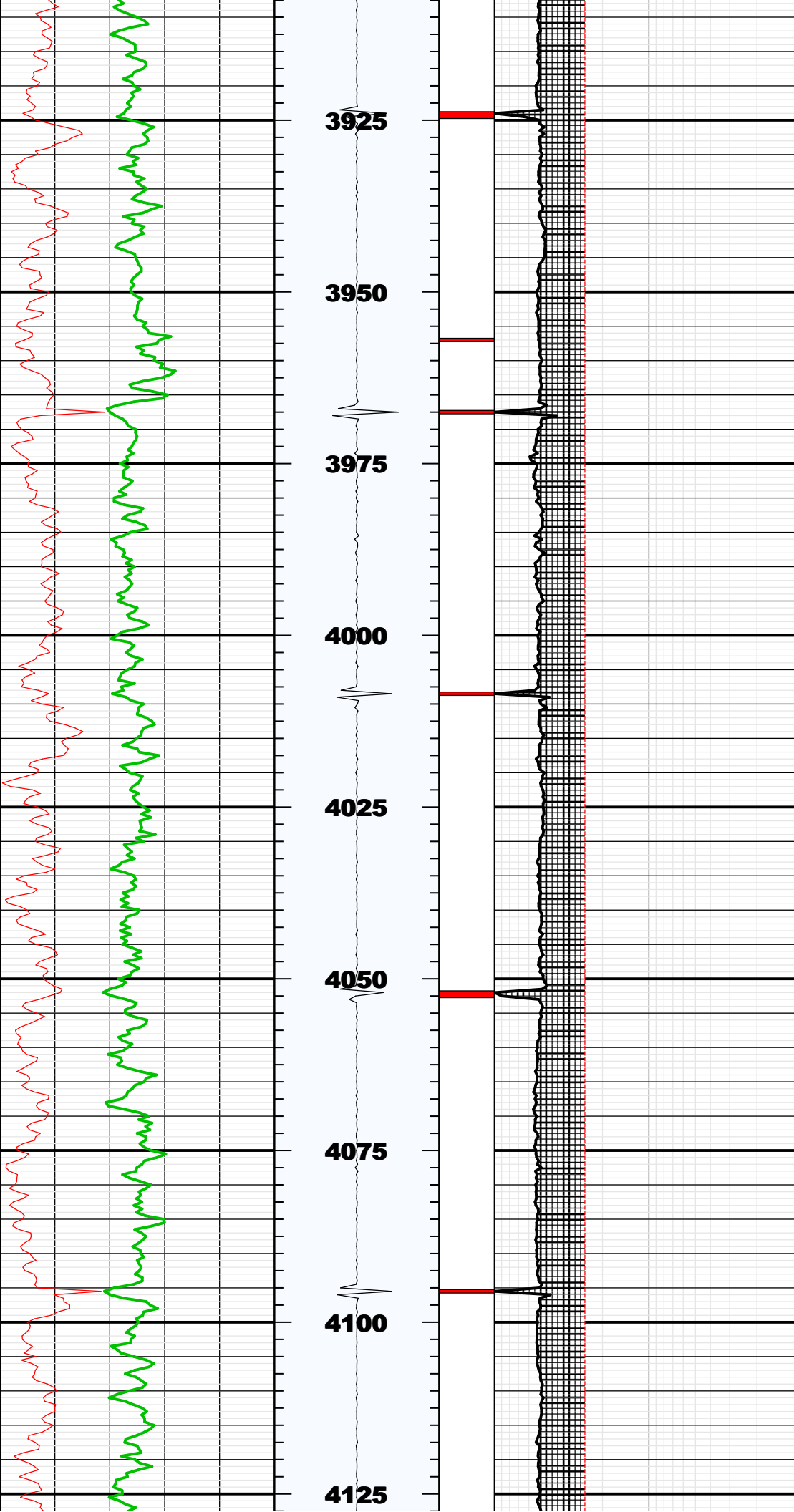


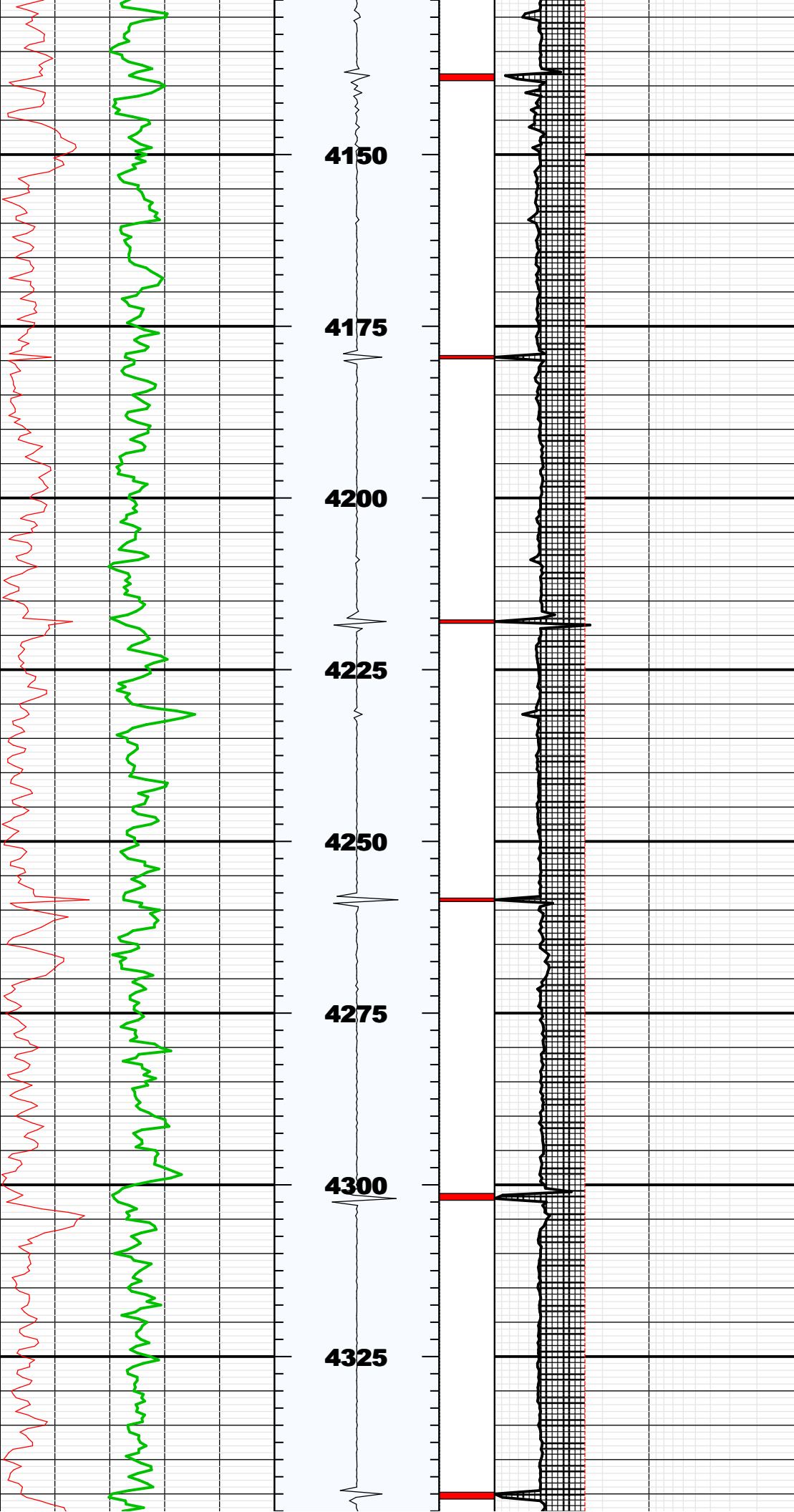


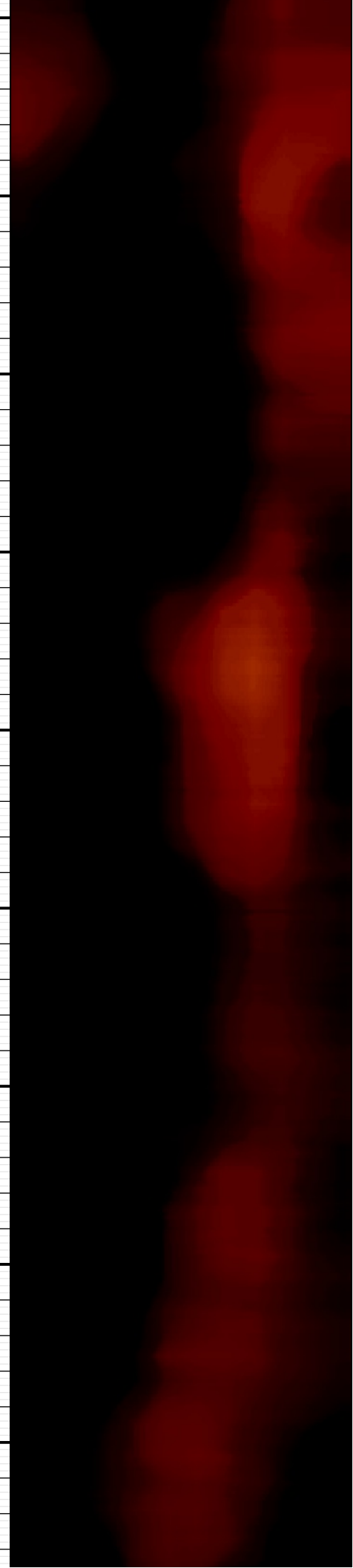
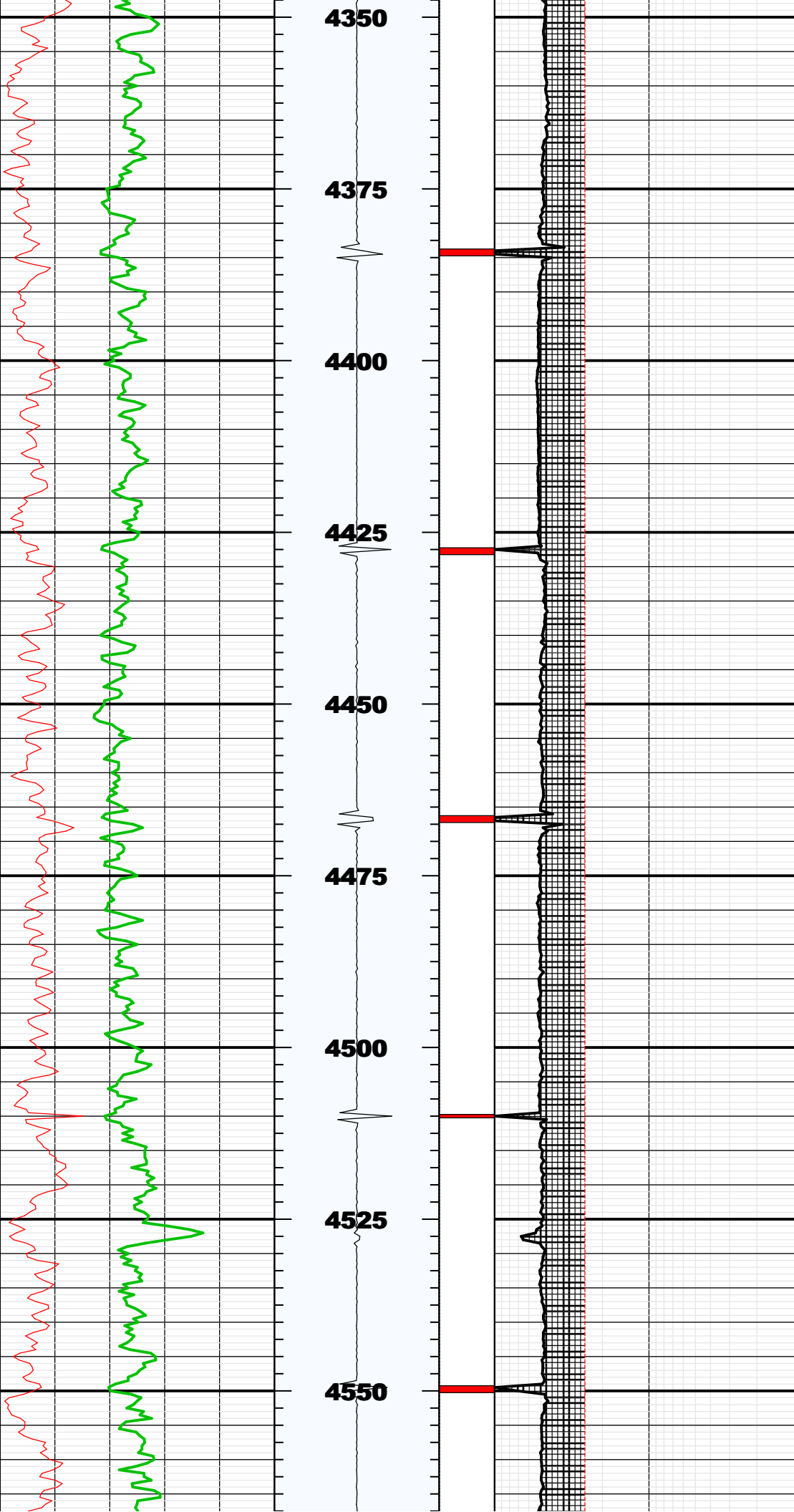


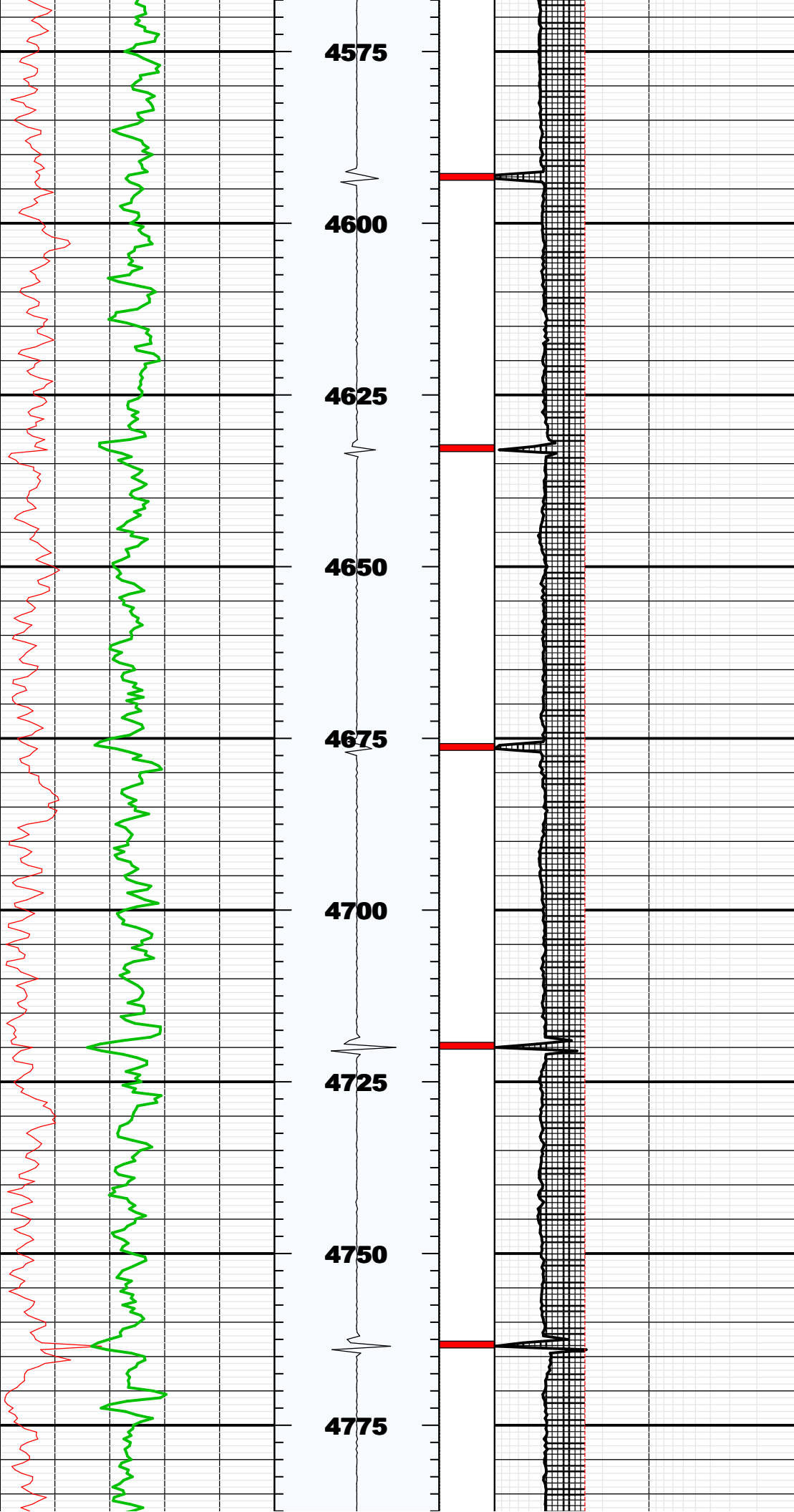


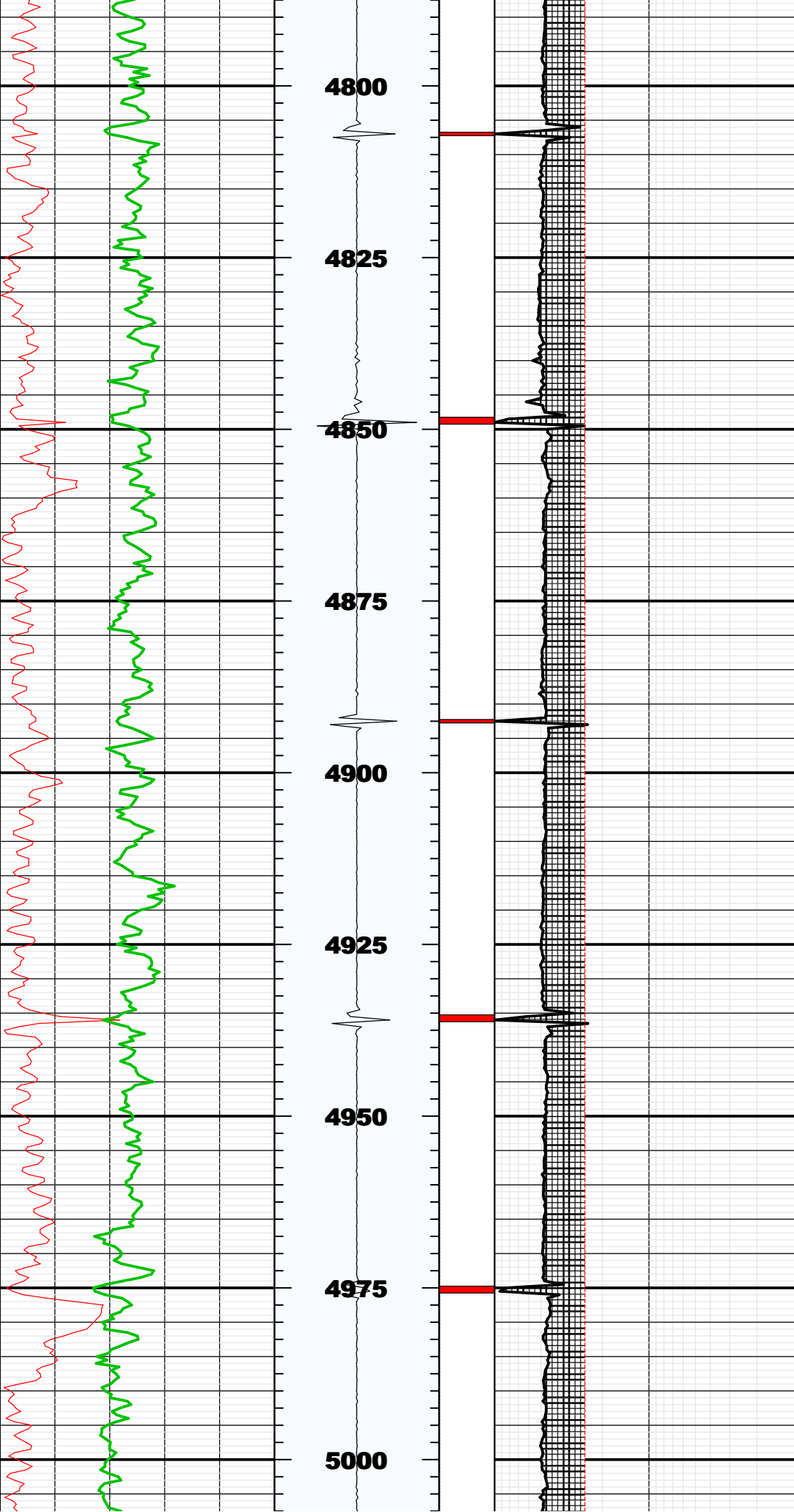


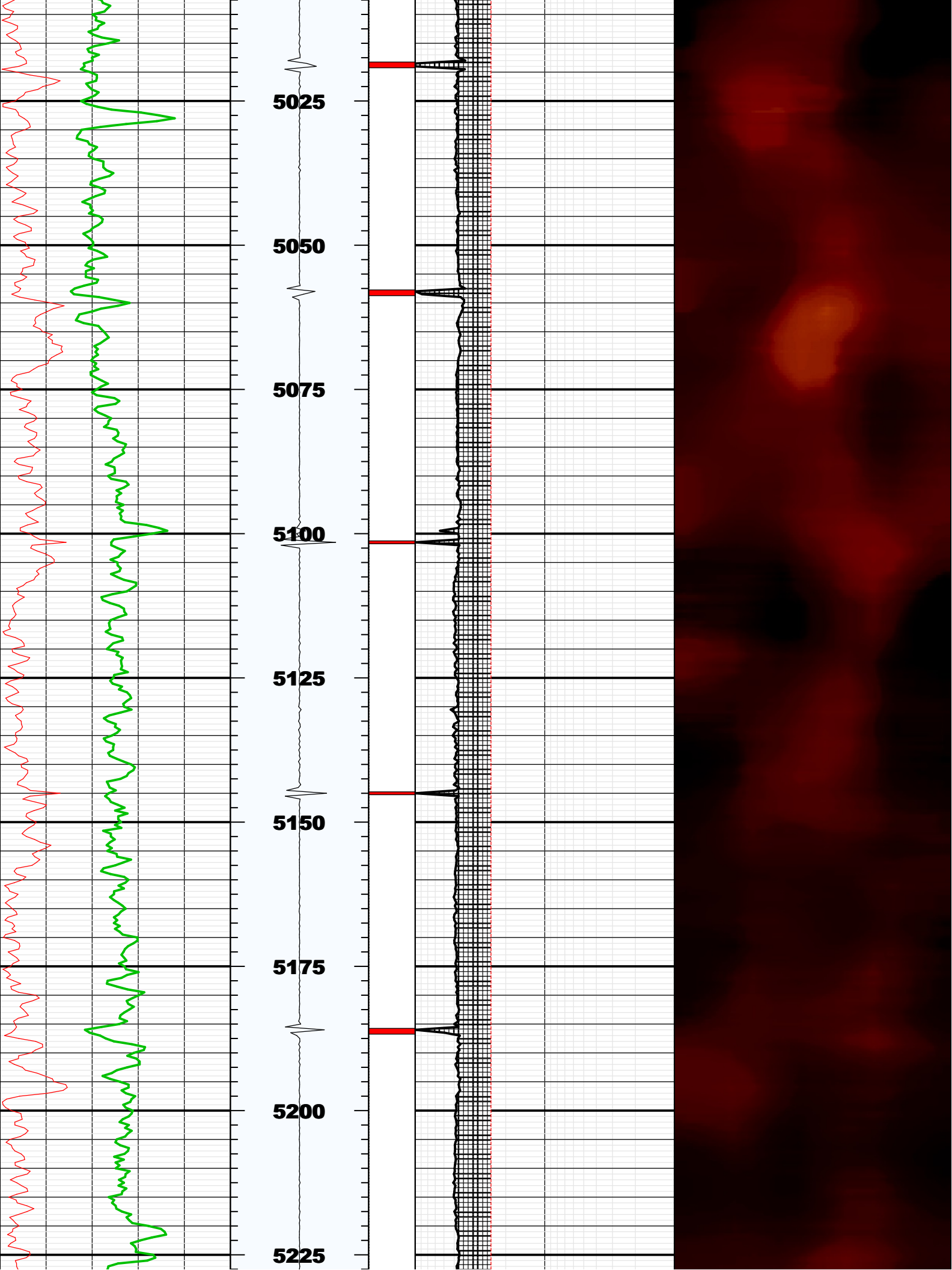


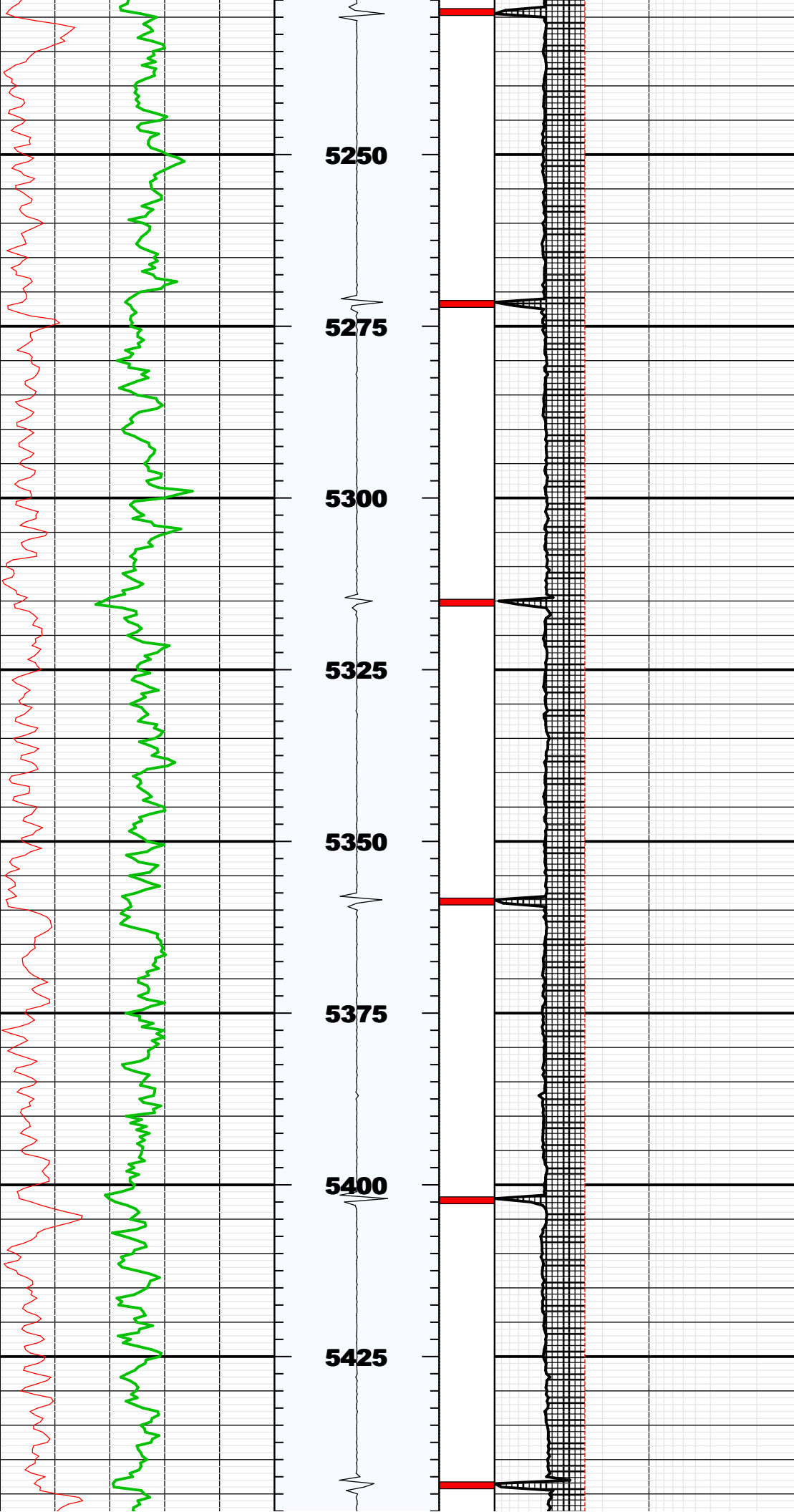


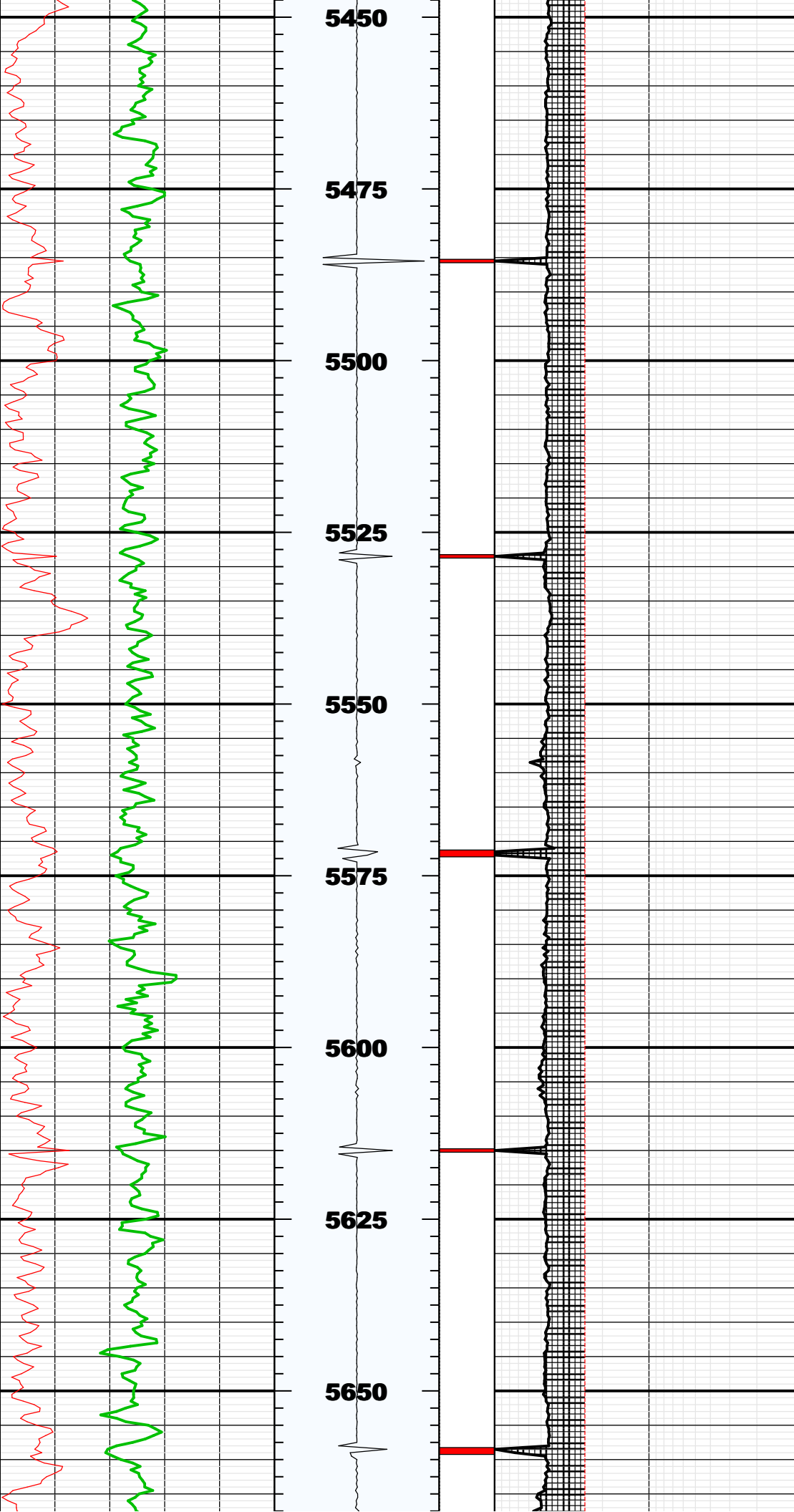


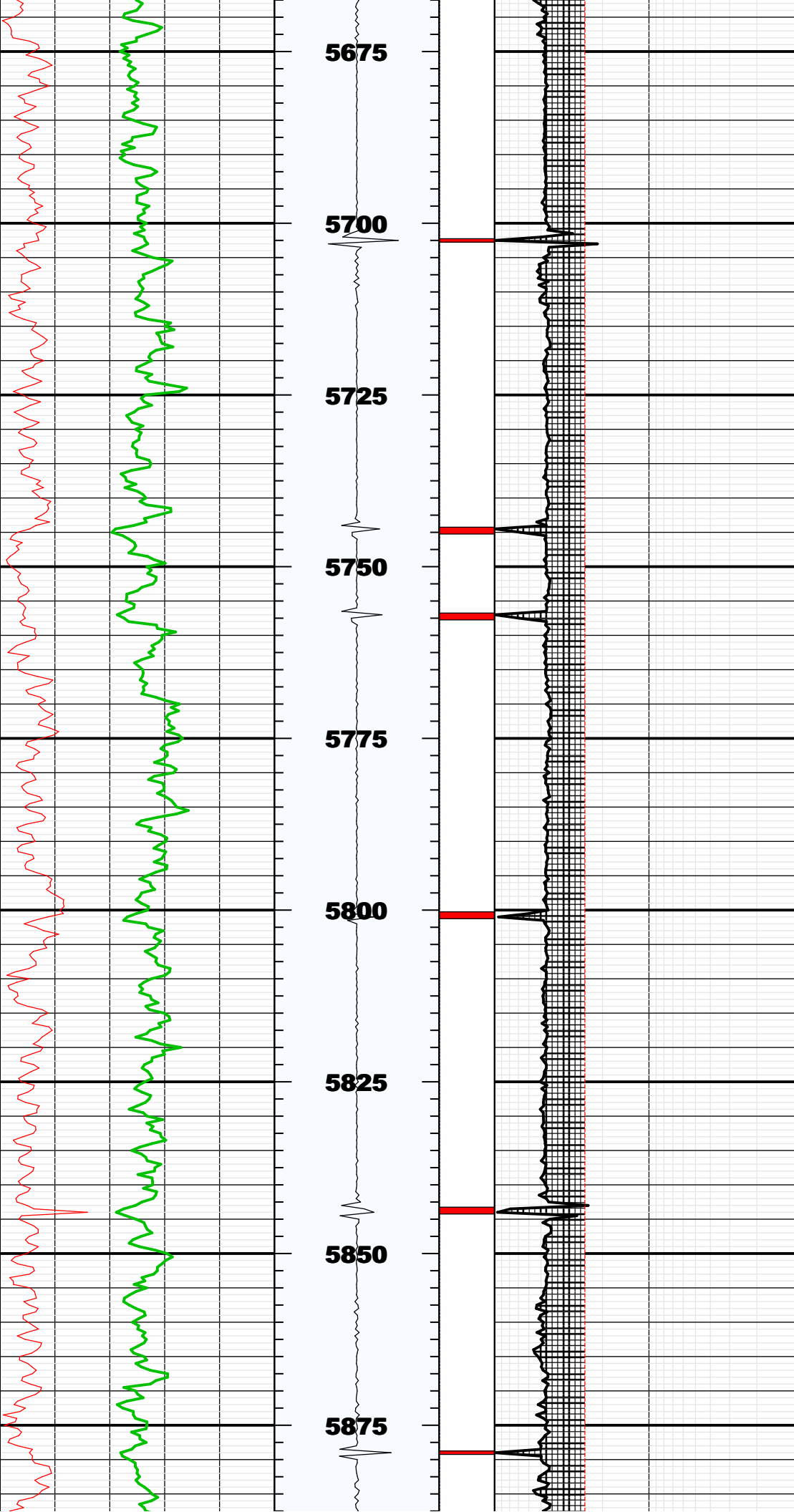


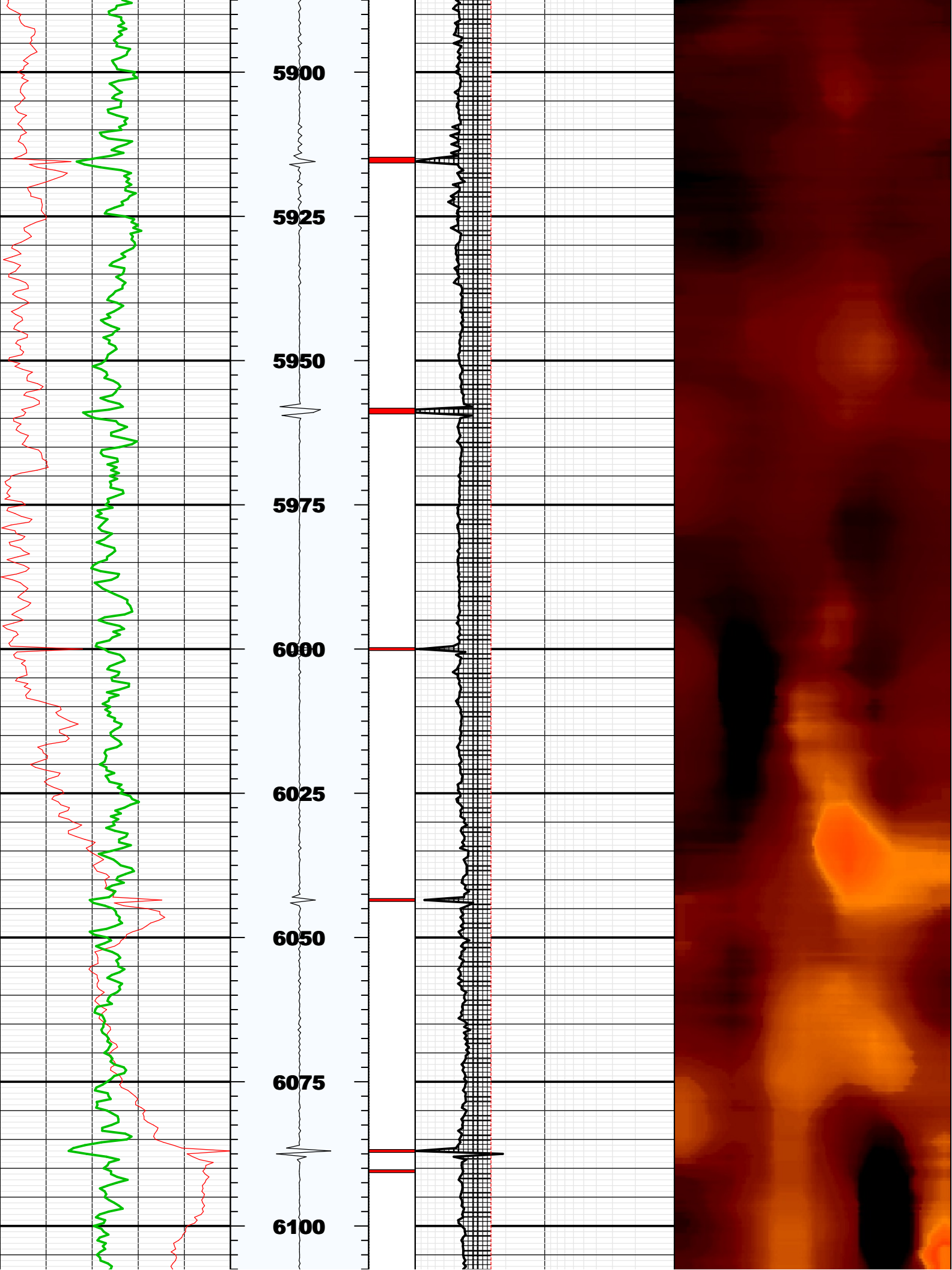


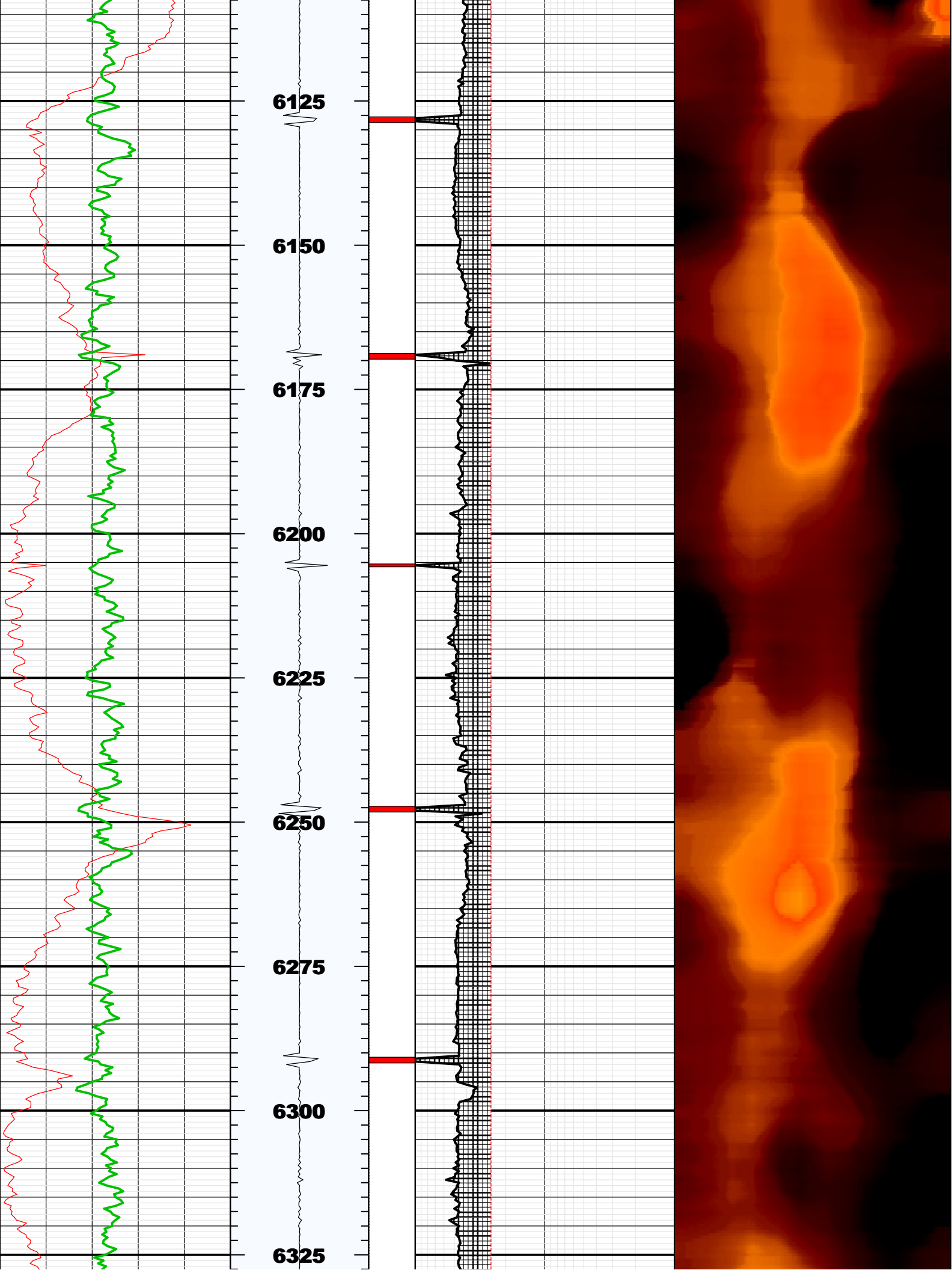


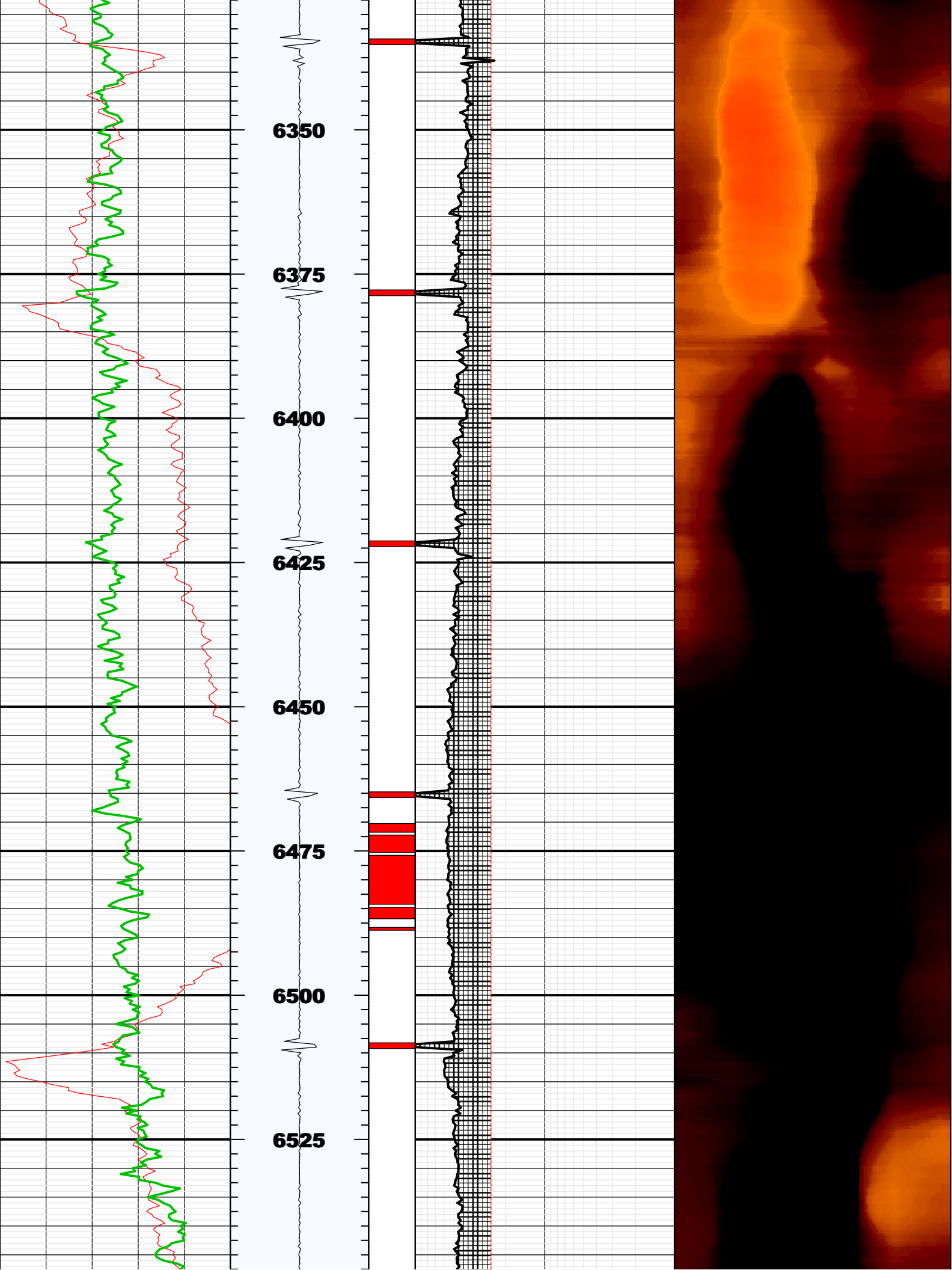


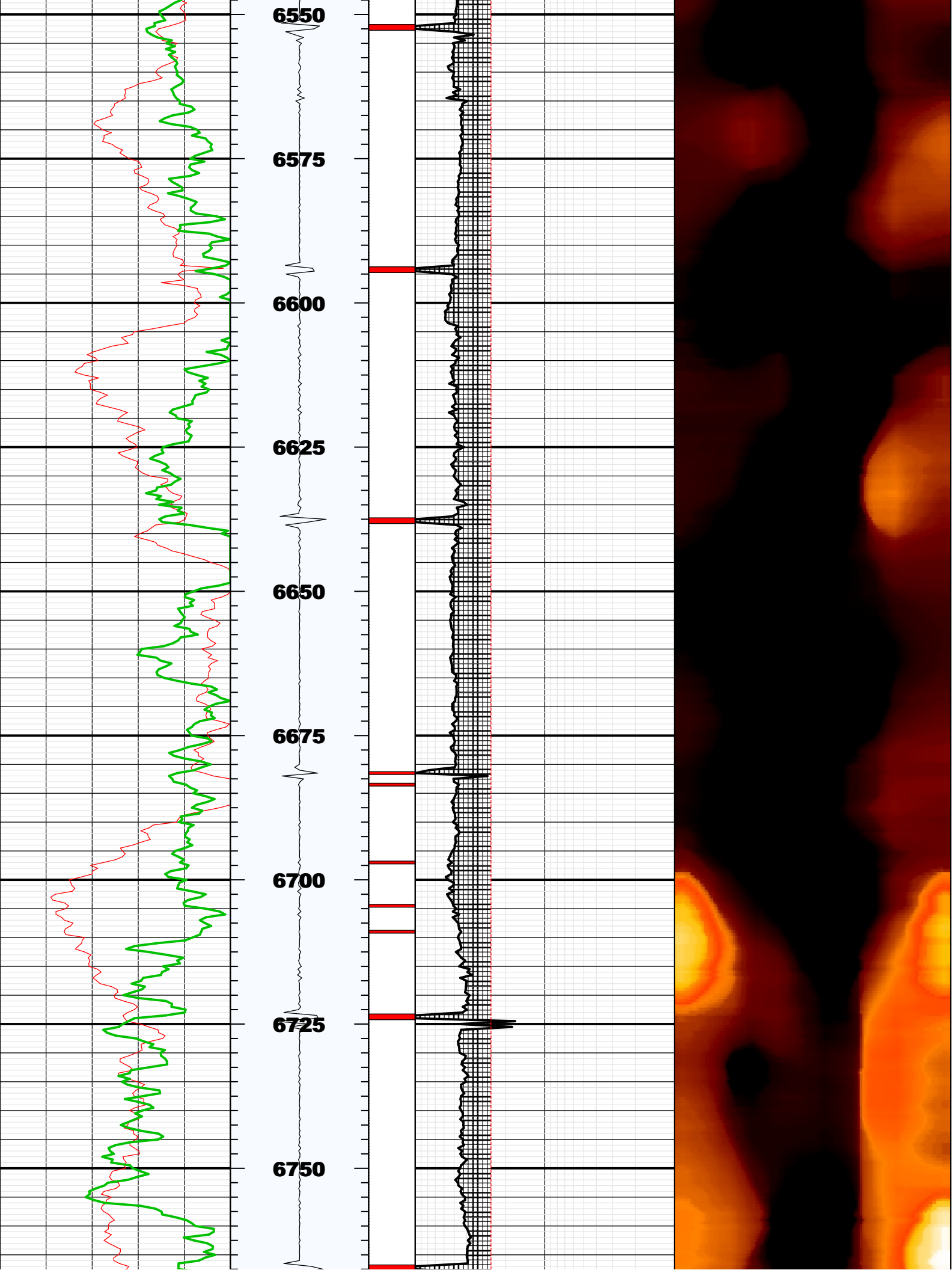


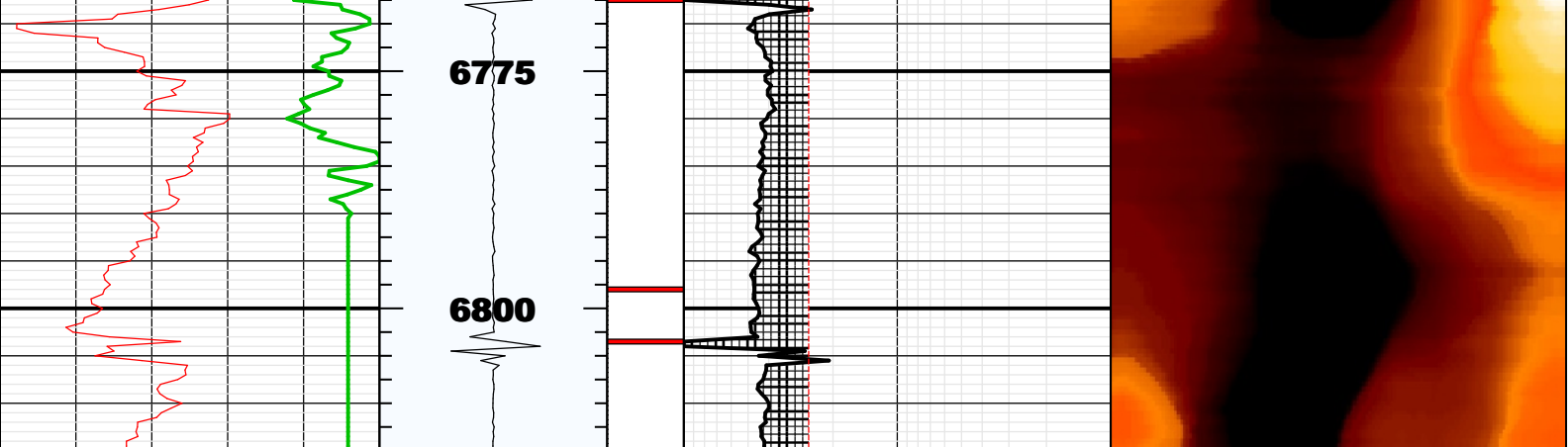












BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID			
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	10.00000	LB/G	Drilling Fluid Density
DFVL	186.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	45	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	32.79592	US	Window Begin Time
WINE	74.19474	US	Window End Time
ZCAS	46.25000	MRAY	Acoustic Impedance of Casing
ZINI	-1.00000	MRAY	Initial Estimate of Cement Impedance
ZMUD	1.82000	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

Fluid Properties Used for Main Pass

