

Company: Noble Energy Inc

Well: AGGIE STATE AA17-625  
Field: WATTENBERG  
County: WELD State: COLORADO

County: WELD					
Field: WATTENBERG					
Location: SHL SWSW S17 T6N R63W					
Well: AGGIE STATE AA17-625					
Company: Noble Energy Inc					
USI-LITE					
				LOCATION	
Permanent Datum: Log Measured From: Drilling Measured From:			GL KB KB	Elev: K.B. 4690.0 F G.L. 4666.0 F D.F. 4689.0 F	
Logging Date	25-Apr-2015	API Serial No. 05-123-40904	Section 17	Township 6N	Range 63W
Run Number	ONE				
Depth Driller	6926.0 F				
Schlumberger Depth	6749.9 F				
Bottom Log Interval	6749.9 F				
Top Log Interval	60.0 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	6749.9 F				
To	-999.2 F				
Casing Size	7.00 IN				
Weight	26.00 LB/F				
Grade	P110				
From	0.0 F				
To	6919.7 F				
Max Recorded Temp	230.9				
Logger on bottom (date)	25-Apr-2015				
Location	Fort Morgan CO.				
Recorded By	Benjamin Marmon				
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: 17200.00000

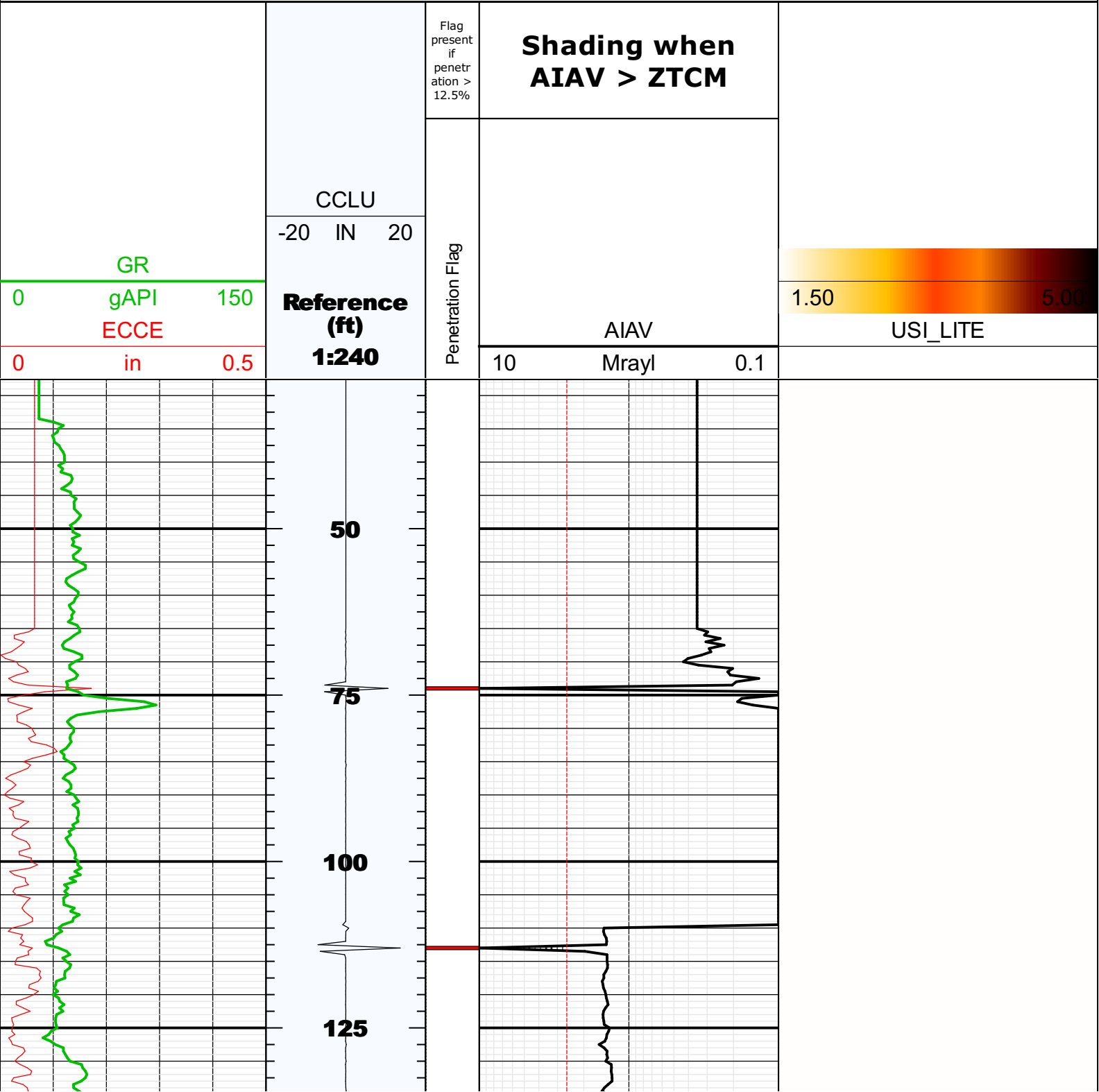
DISCLAIMER

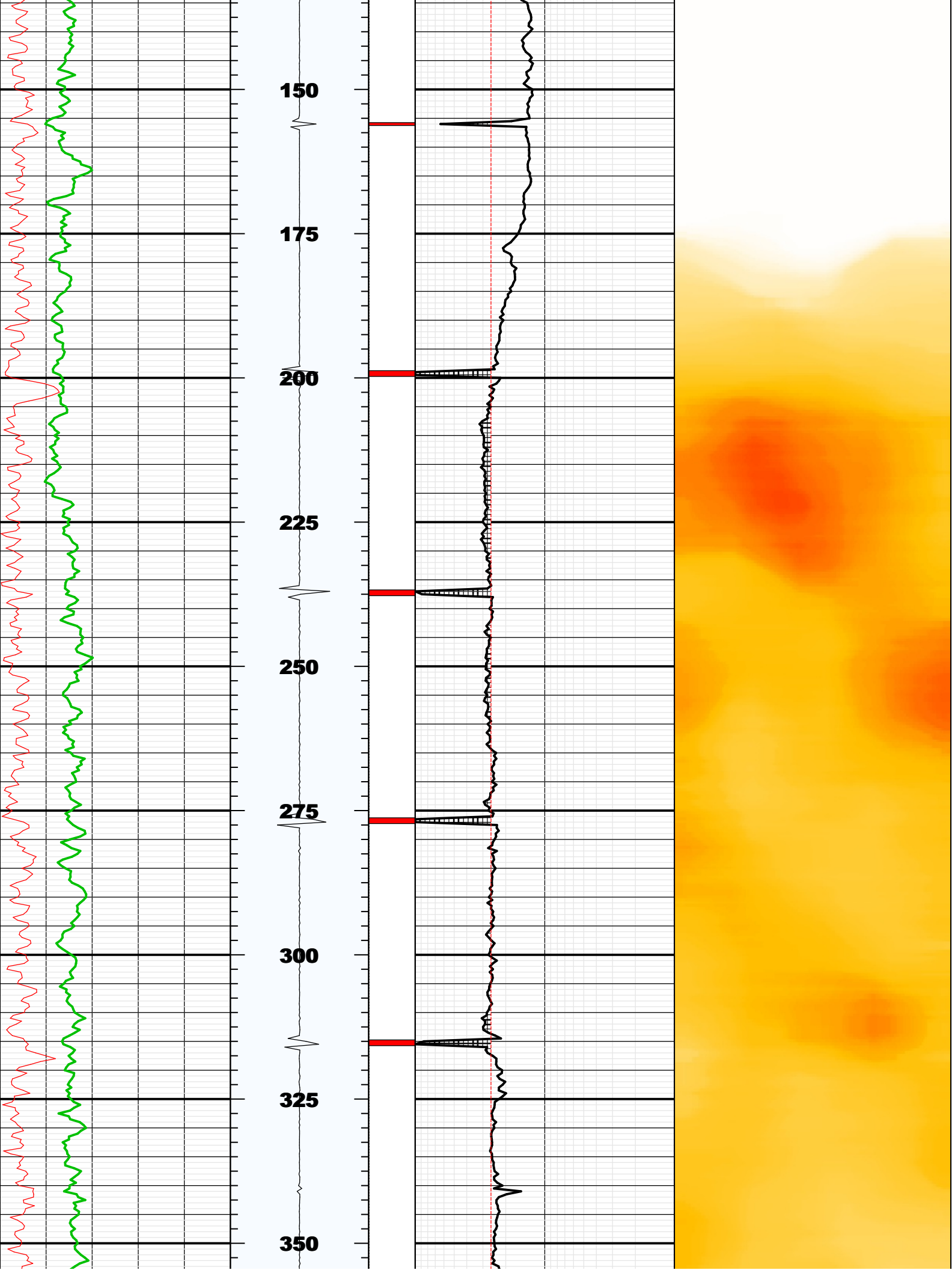
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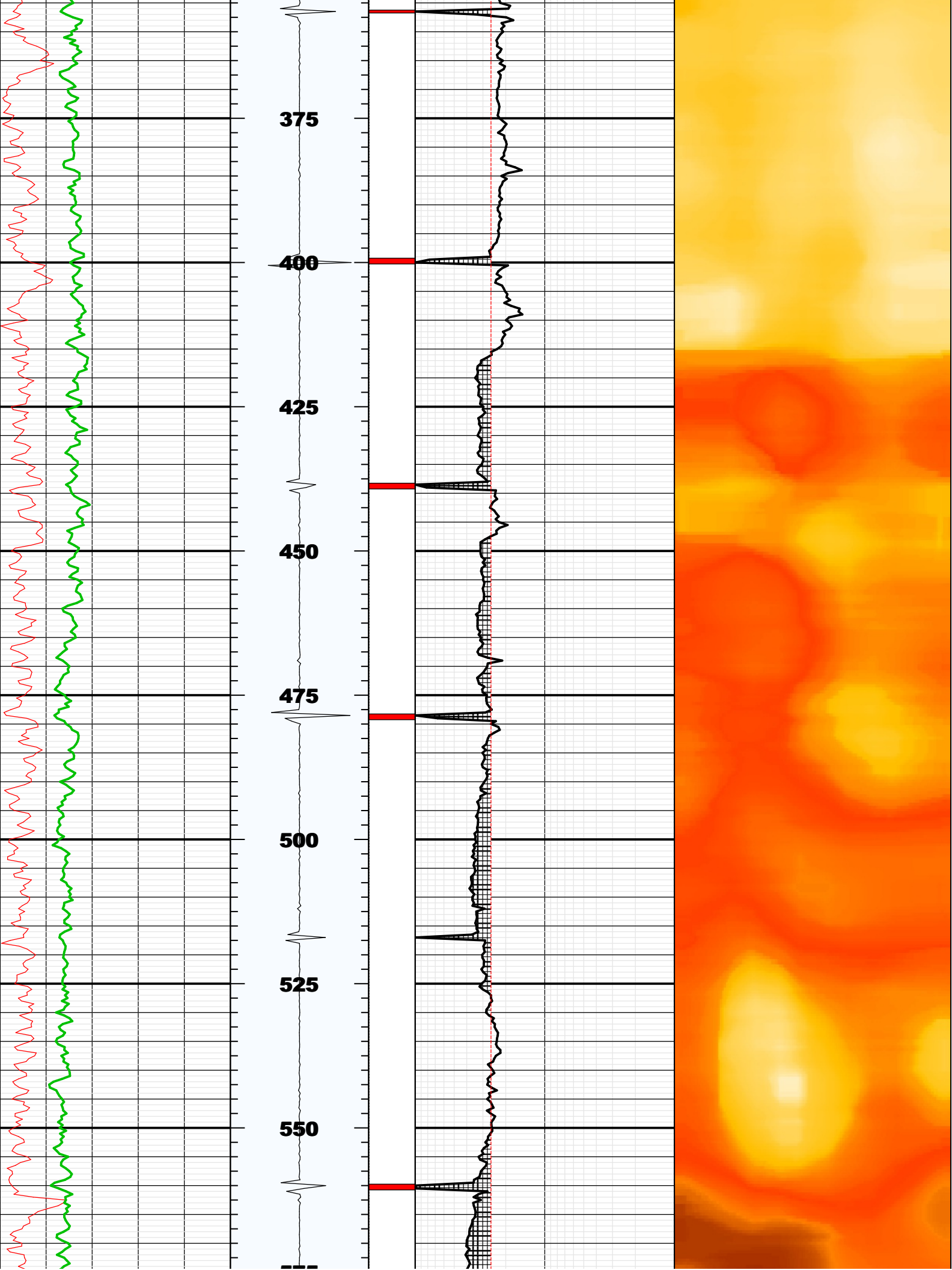
This is the first run in the hole.  
Toolstring run as per toolsketch.  
Log Objective Cement Evaluation.  
Estimated TOC @ 596'. Expected TOC @ 1500'.  
Top of 4.5 liner at 6761'.  
Bottom log interval at 6750'.  
Bottom hole temperature was 231 DegF.  
0 PSI repeat pass and 2500 PSI main pass.

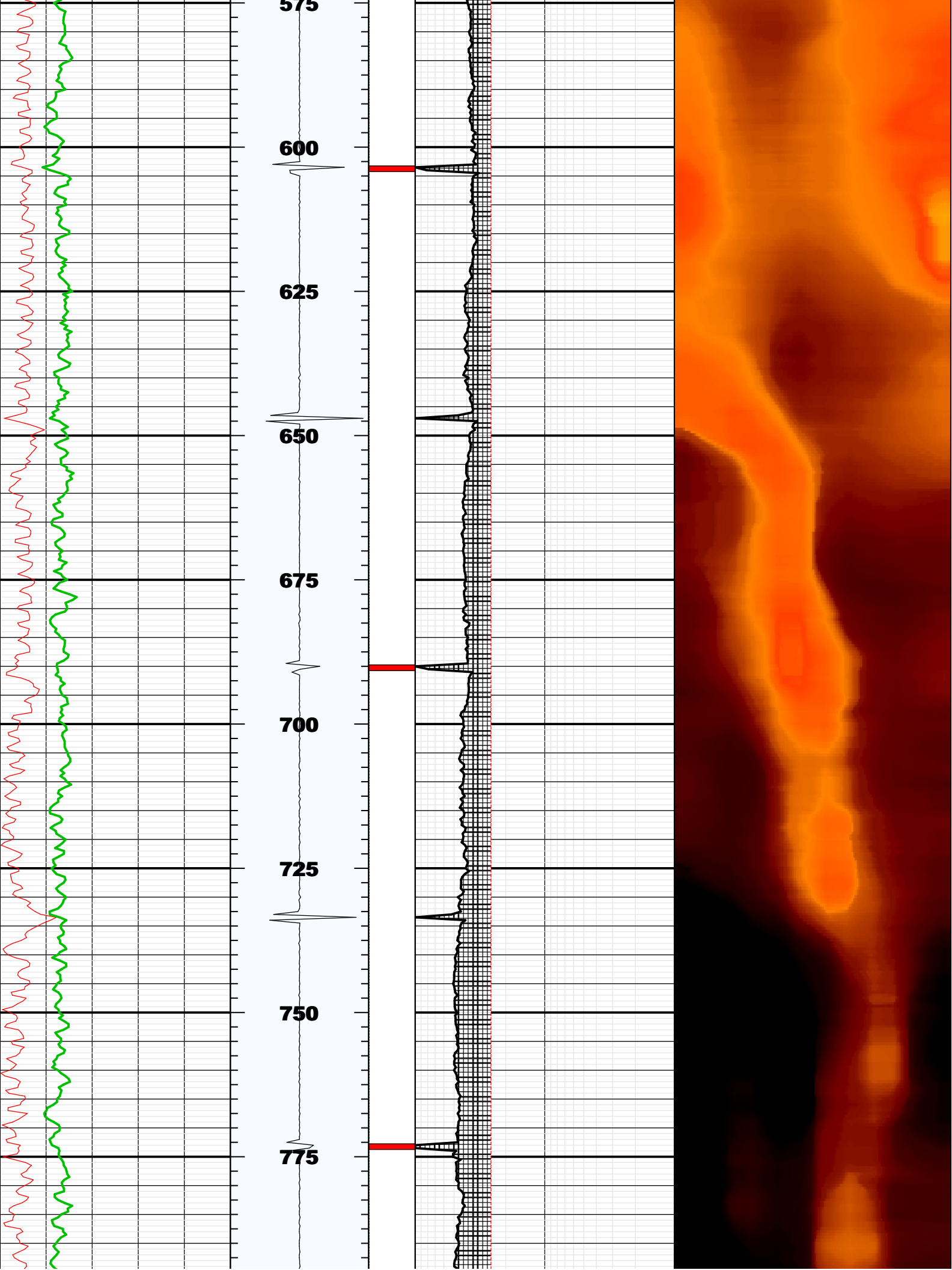
Main Pass

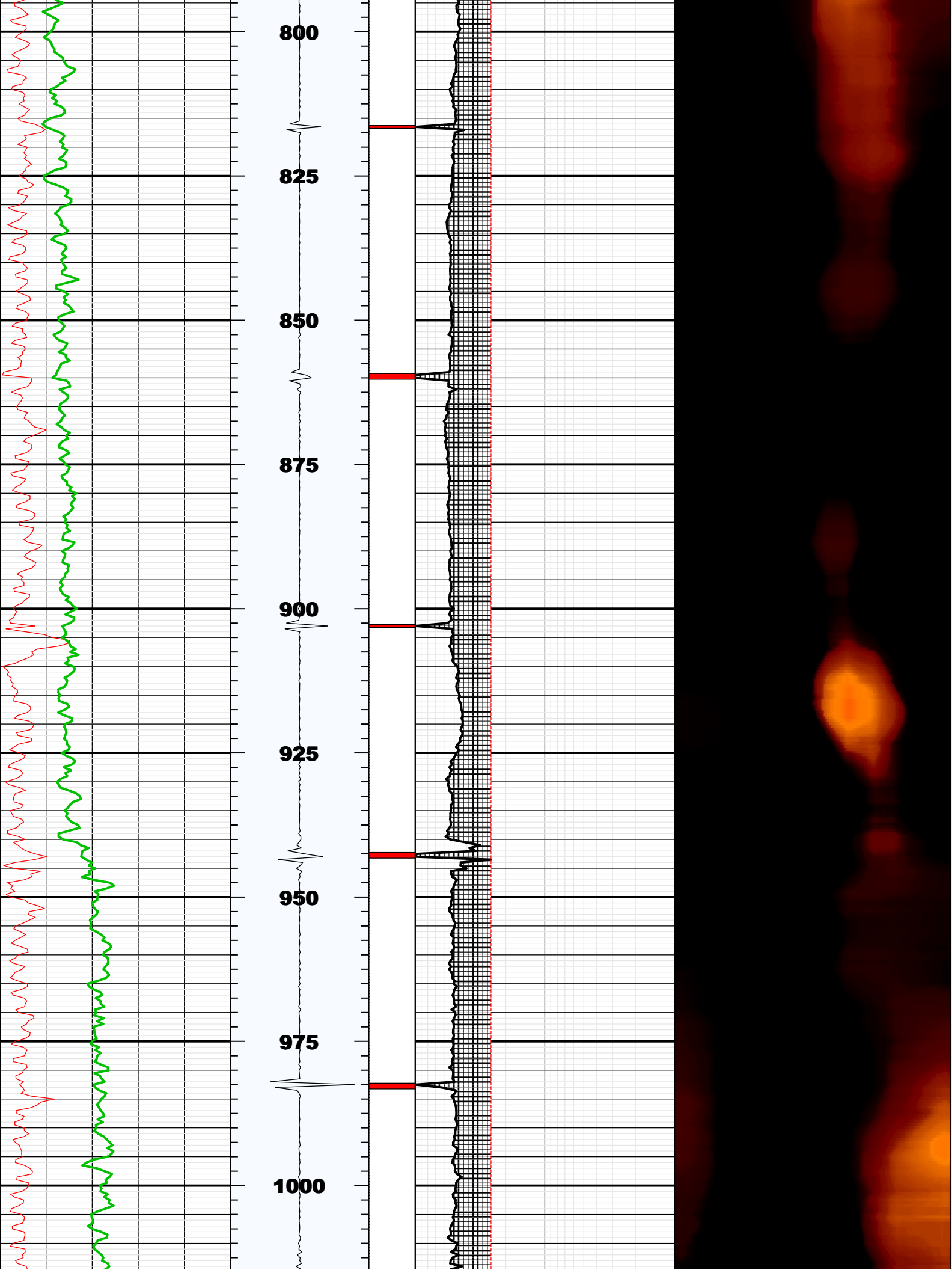
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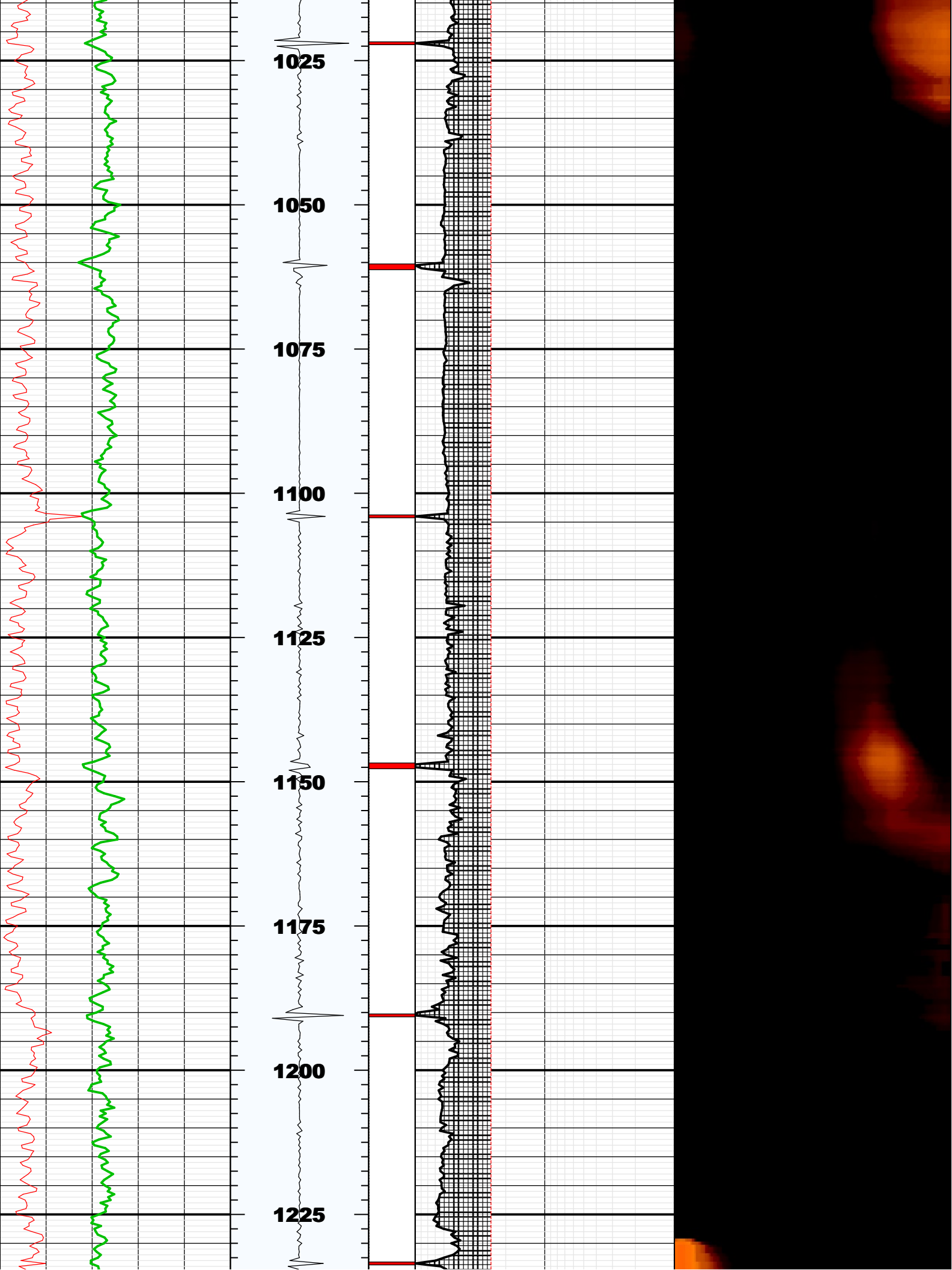




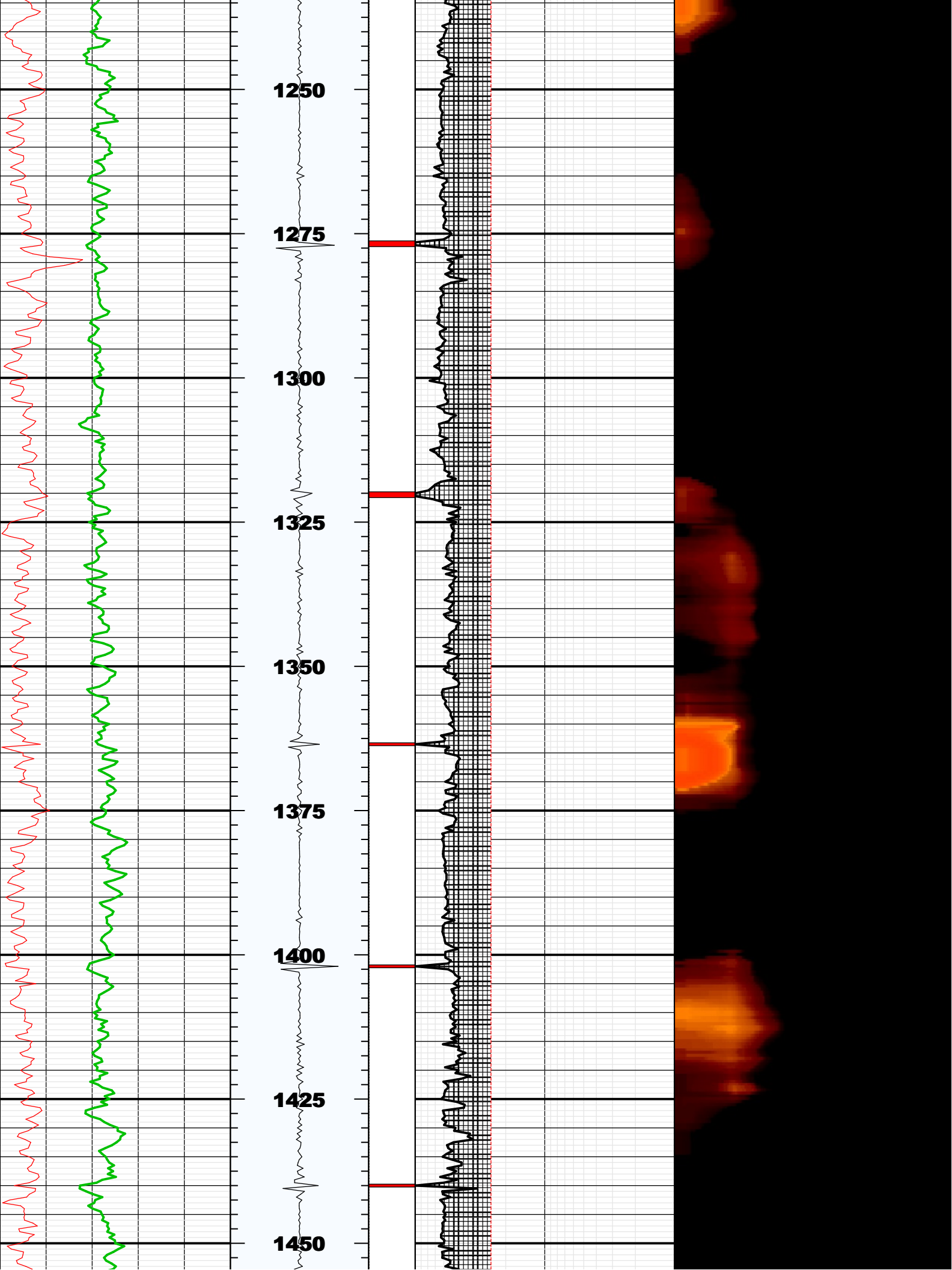


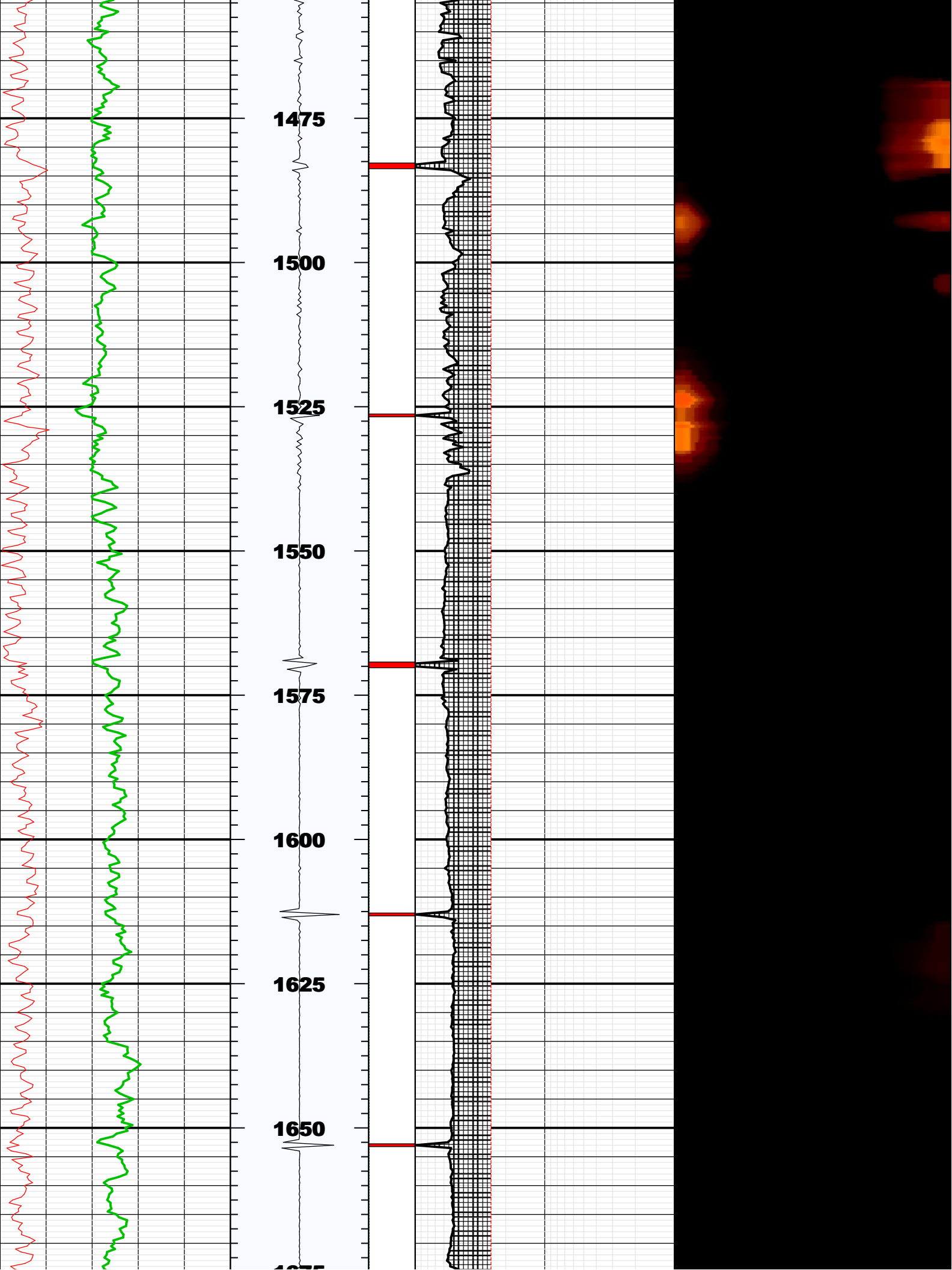


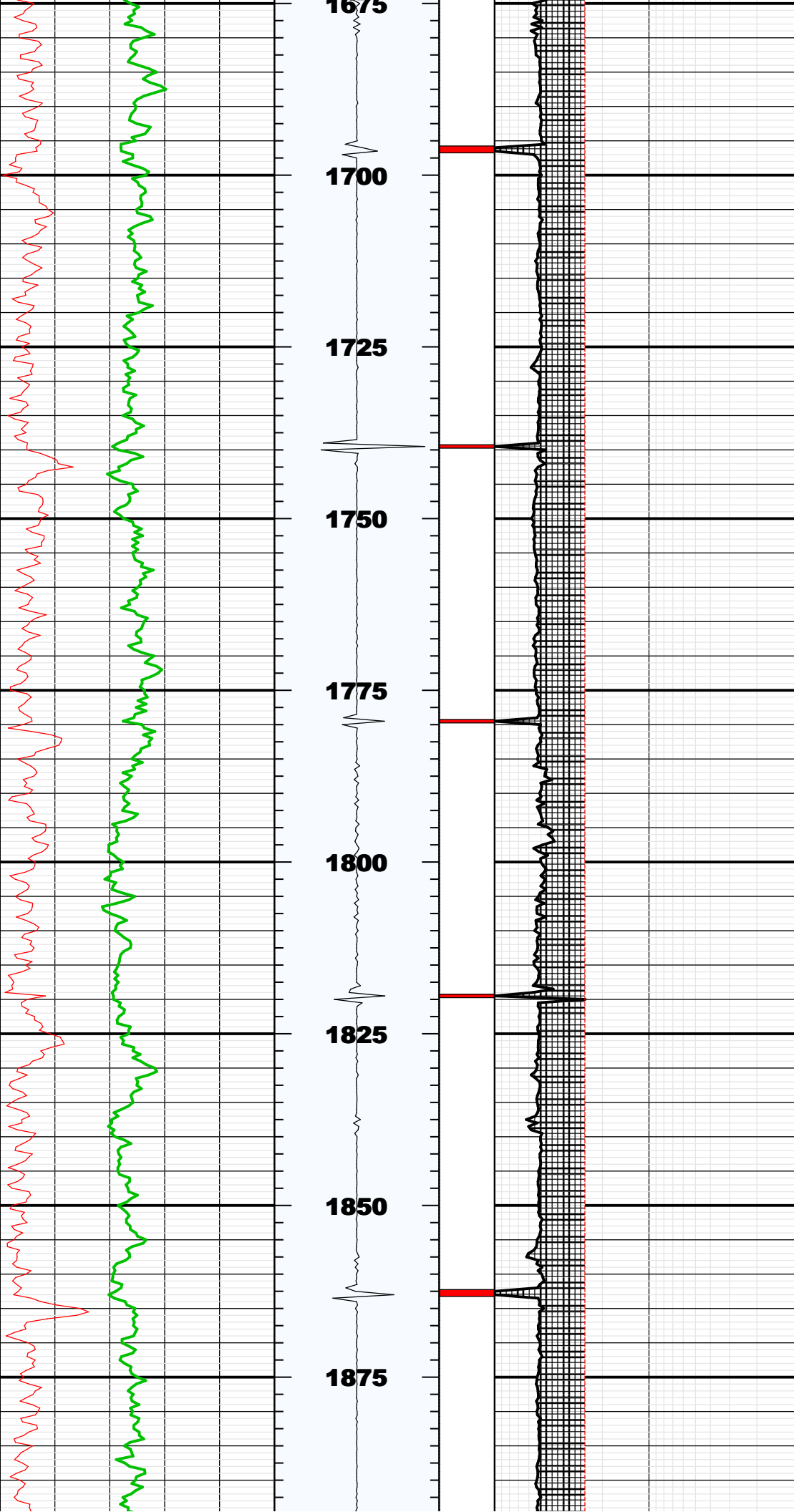


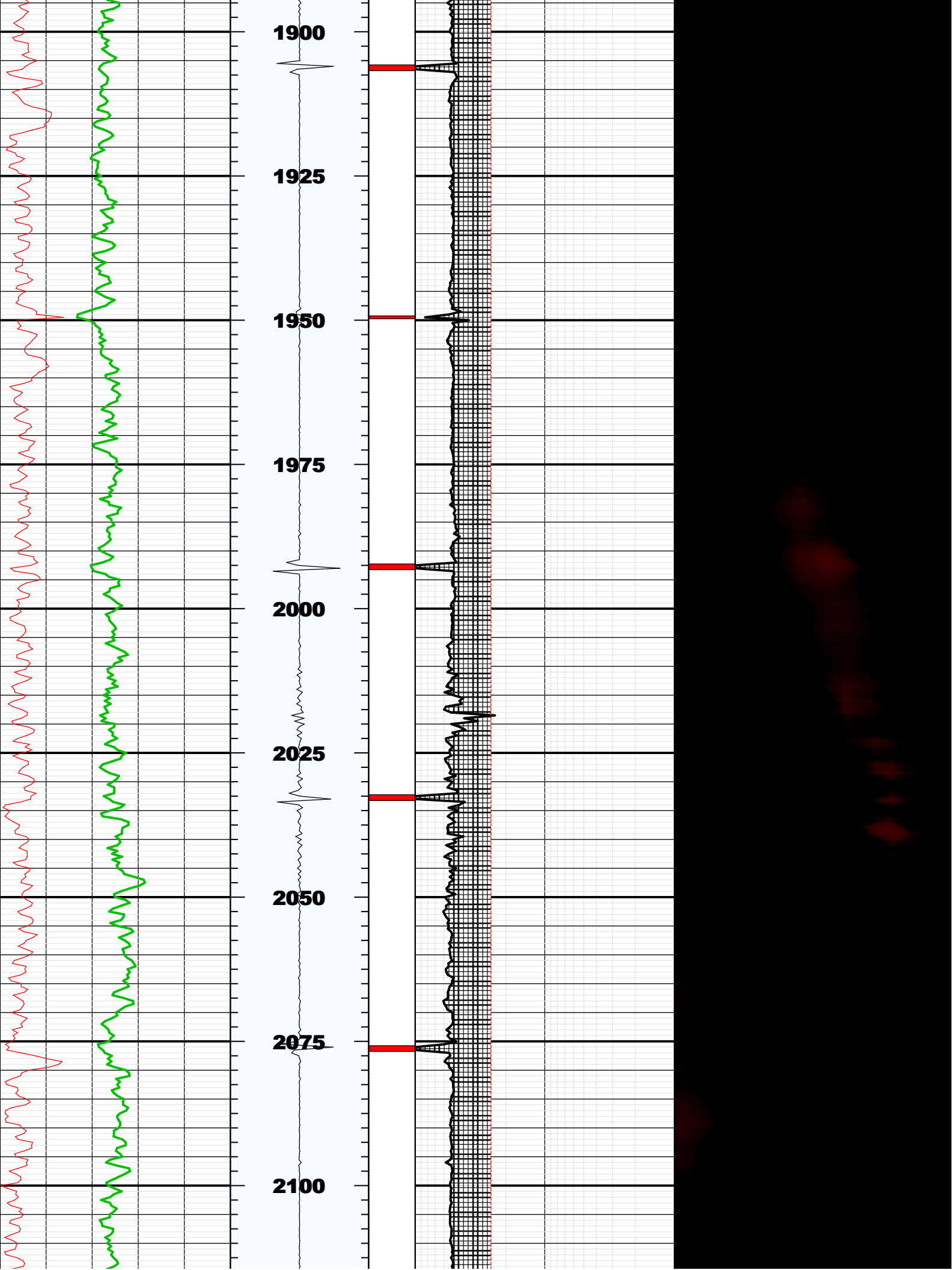


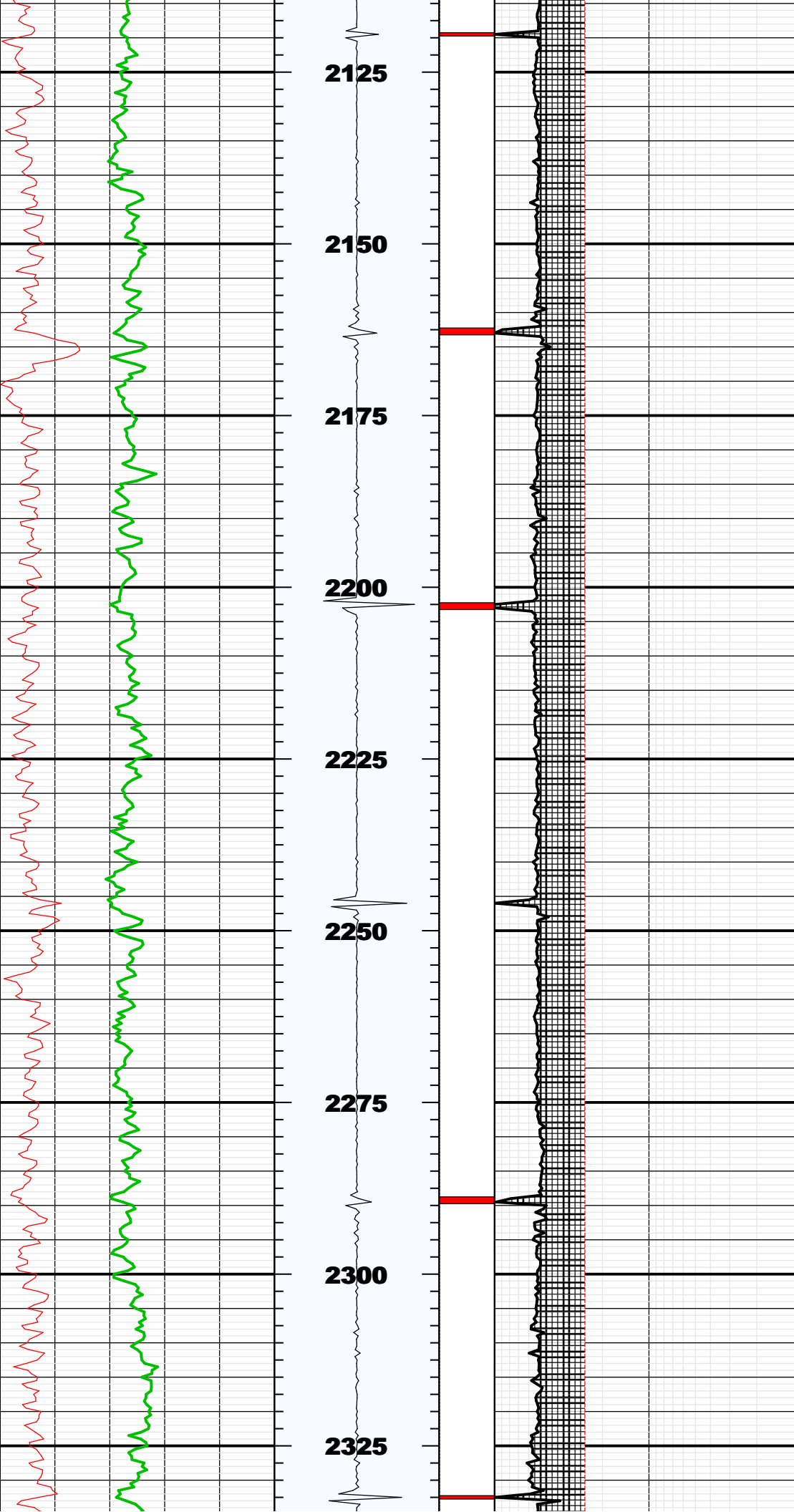


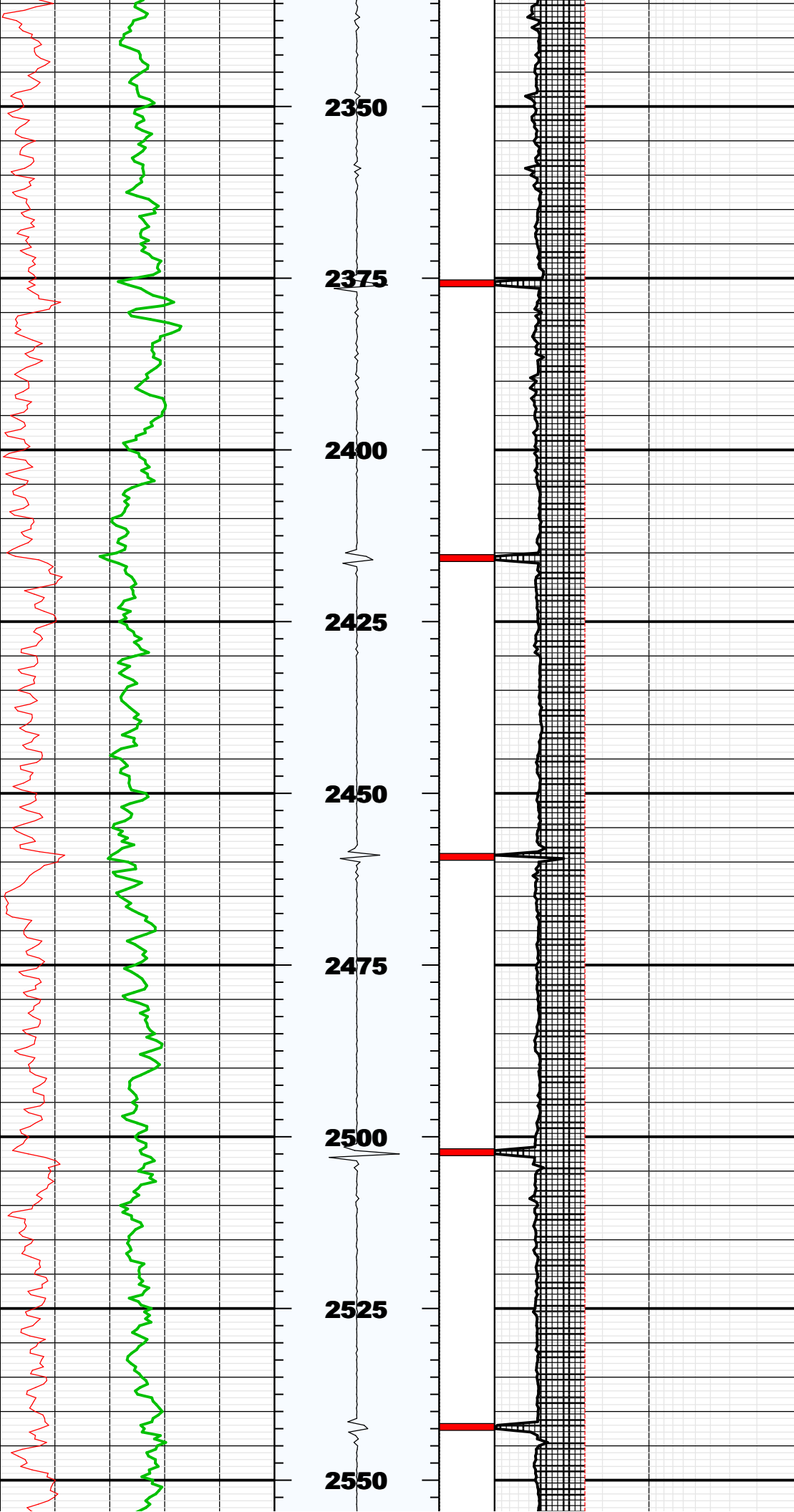


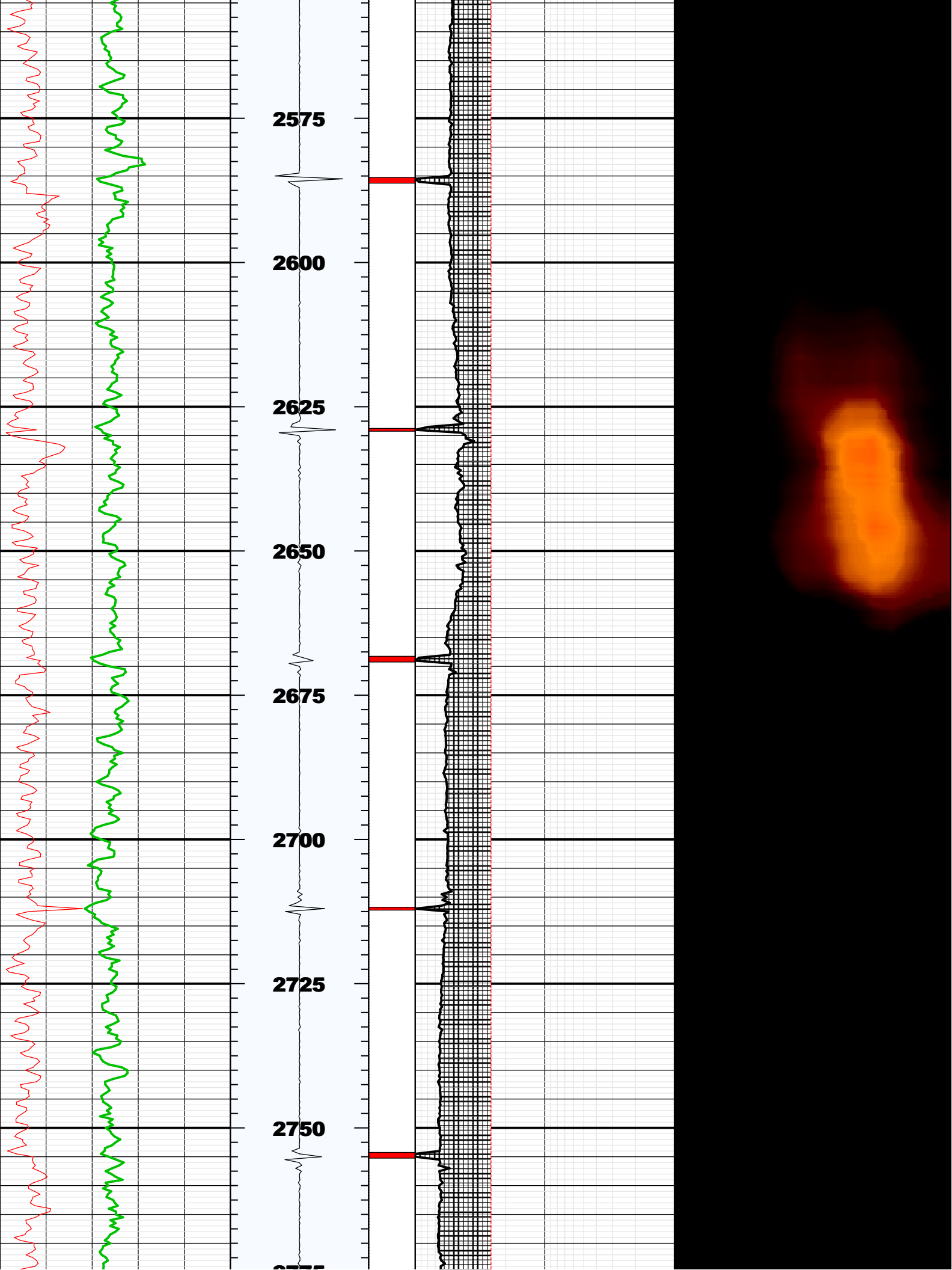




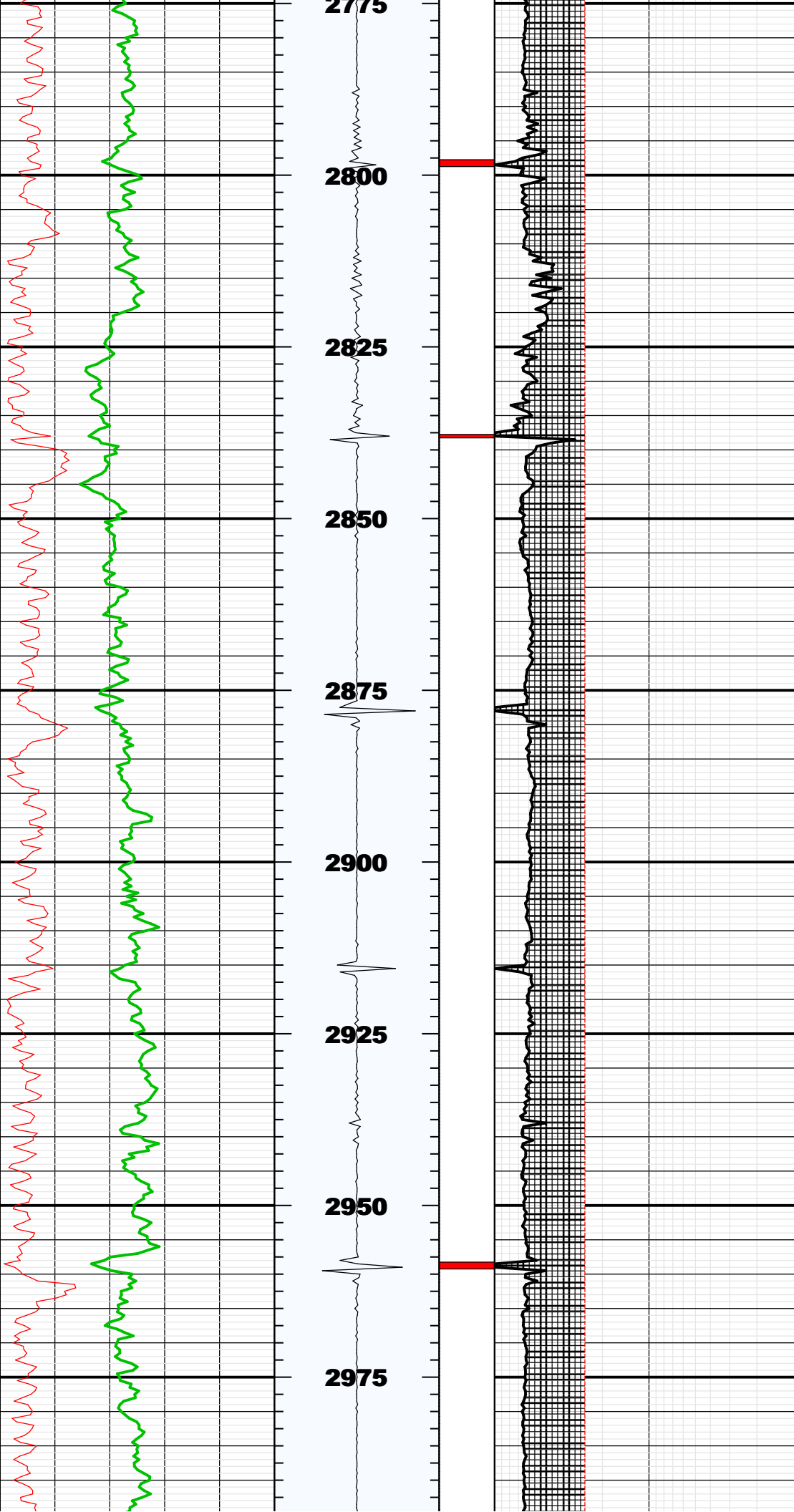




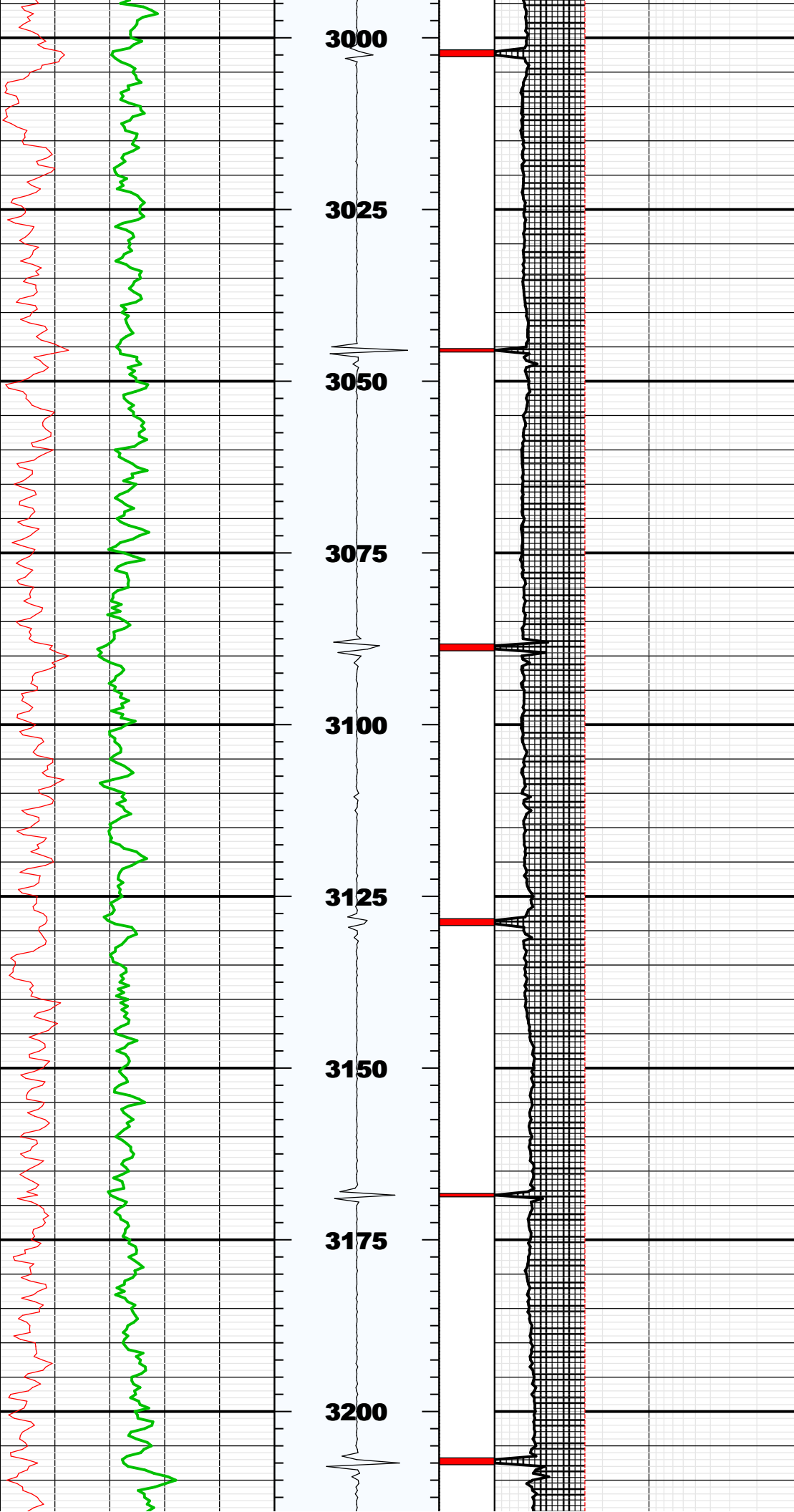


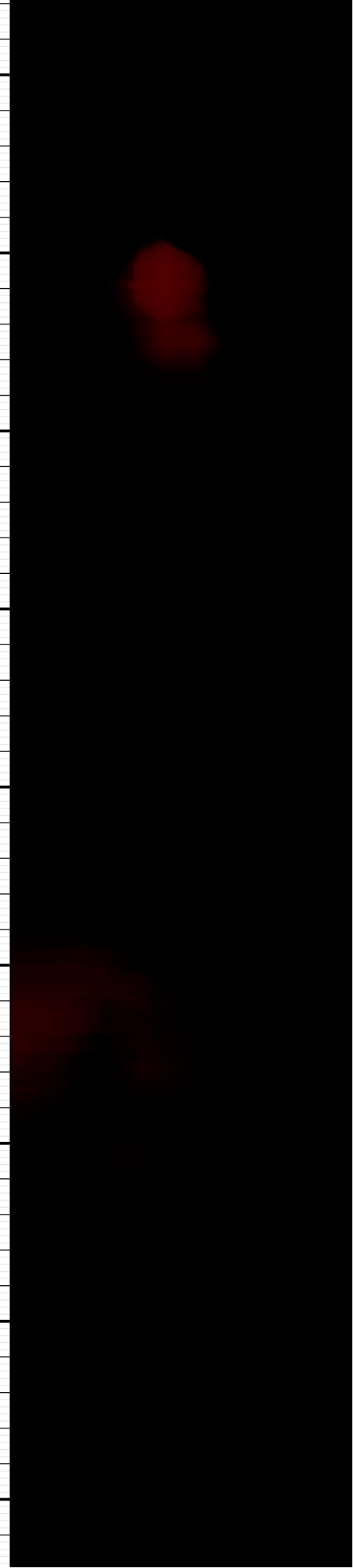
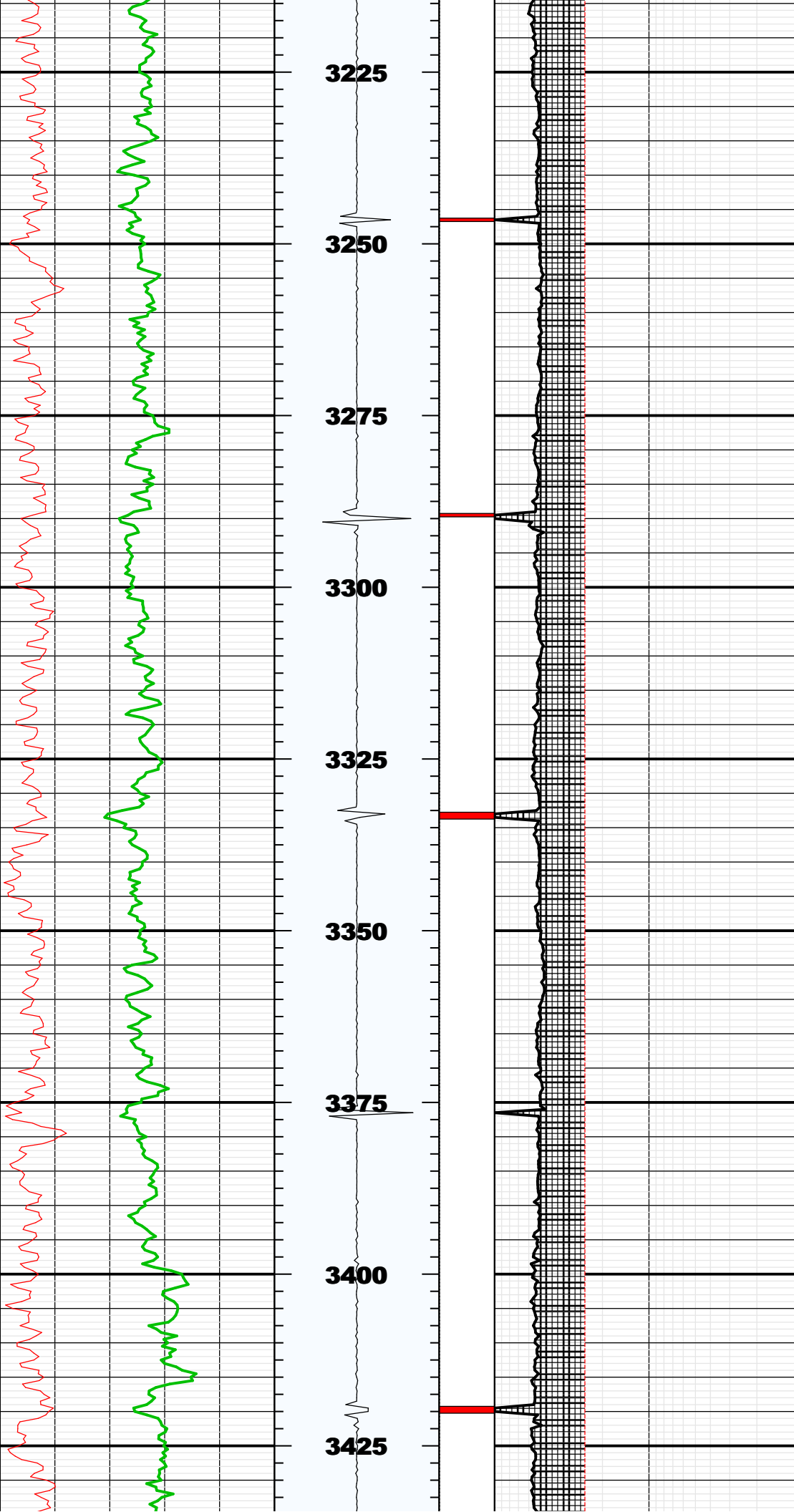


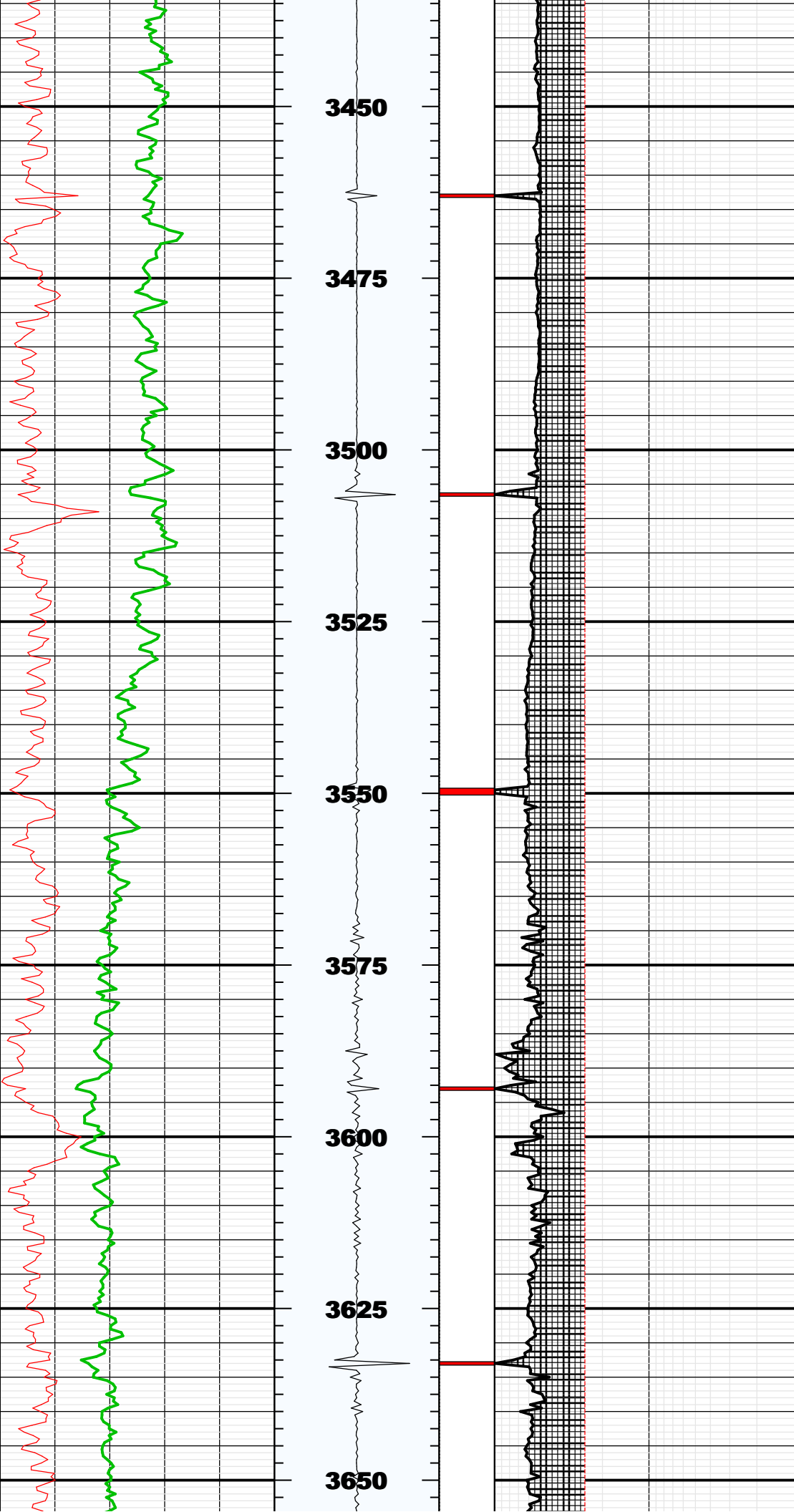


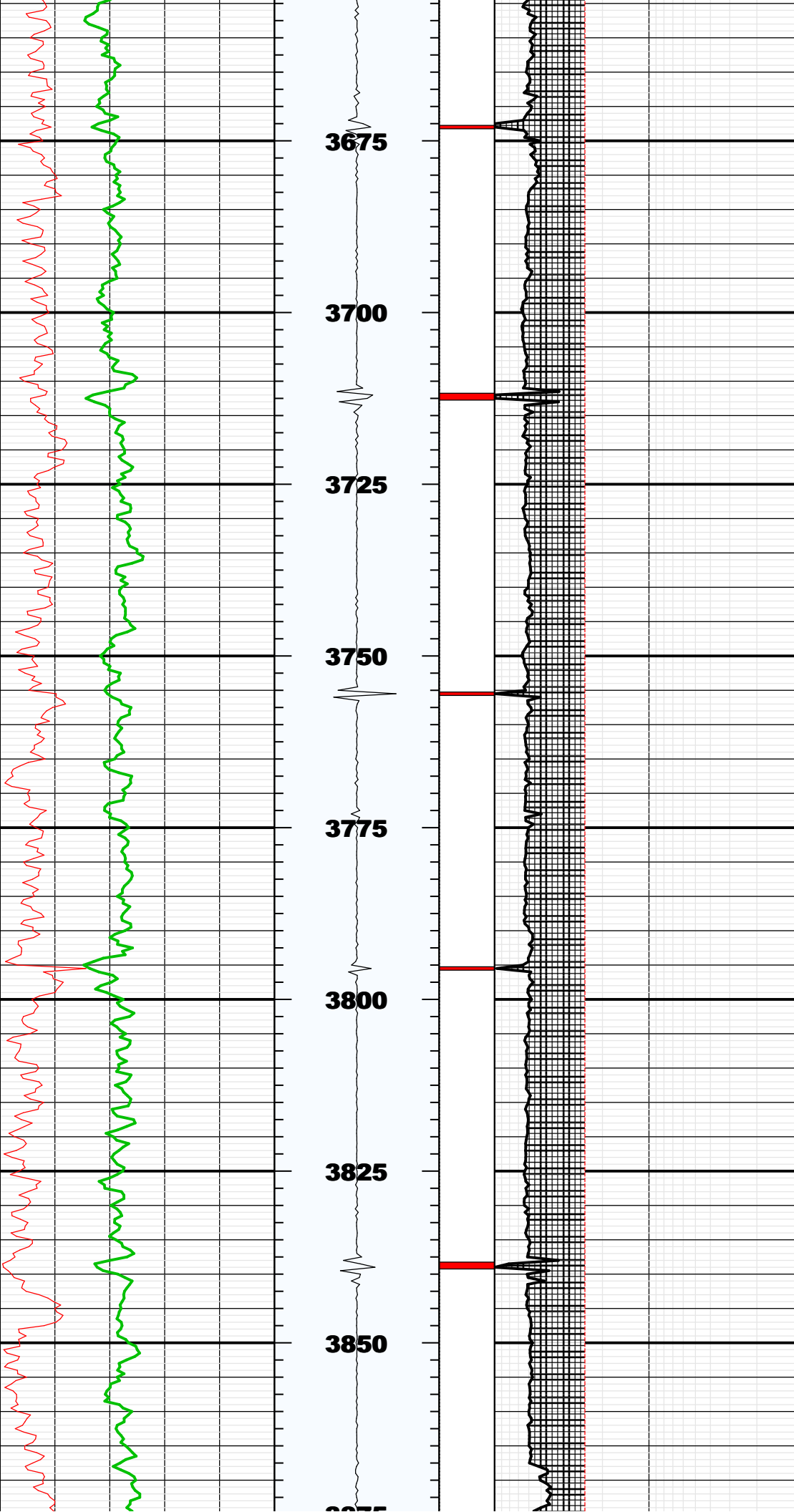


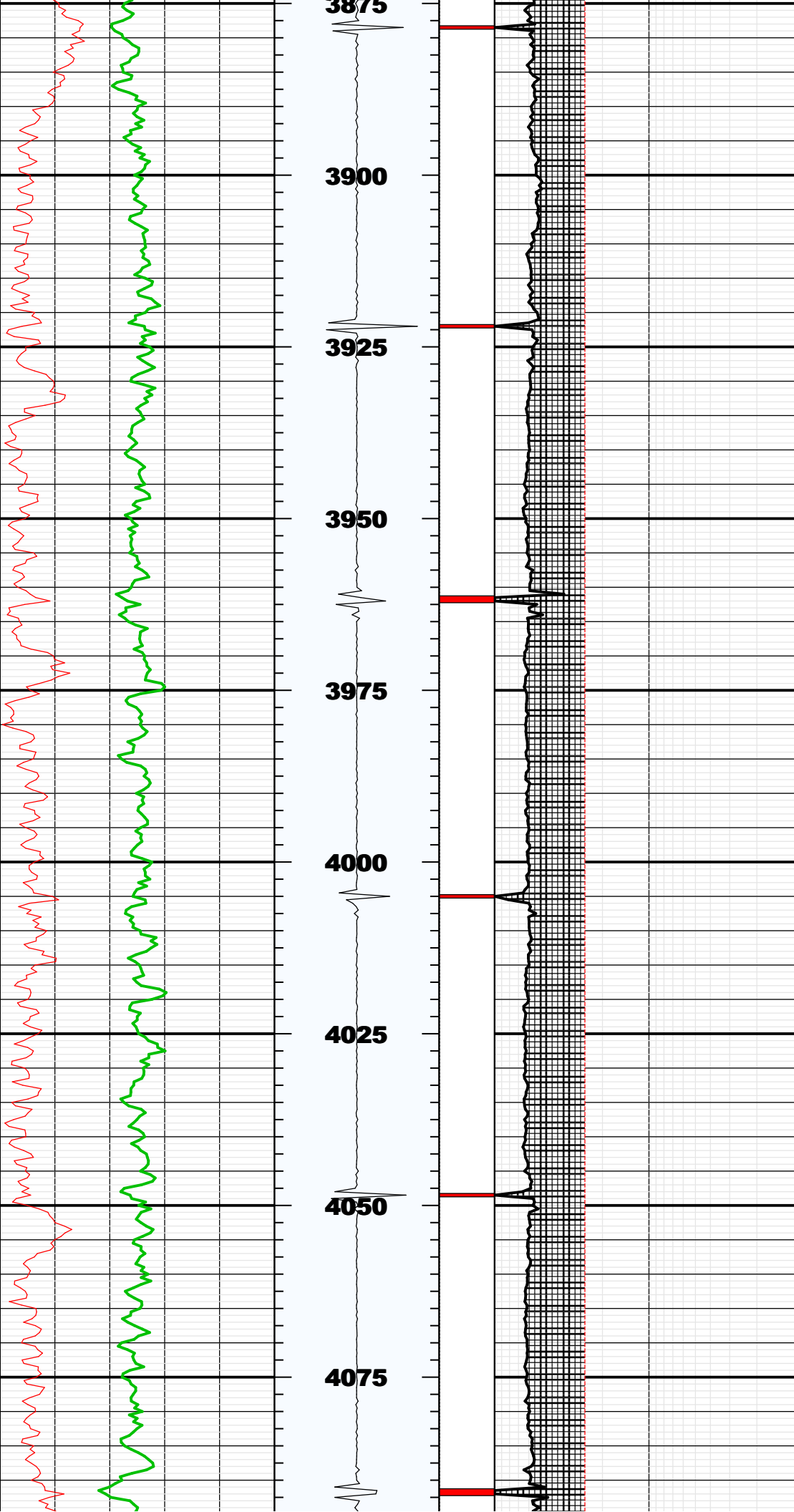


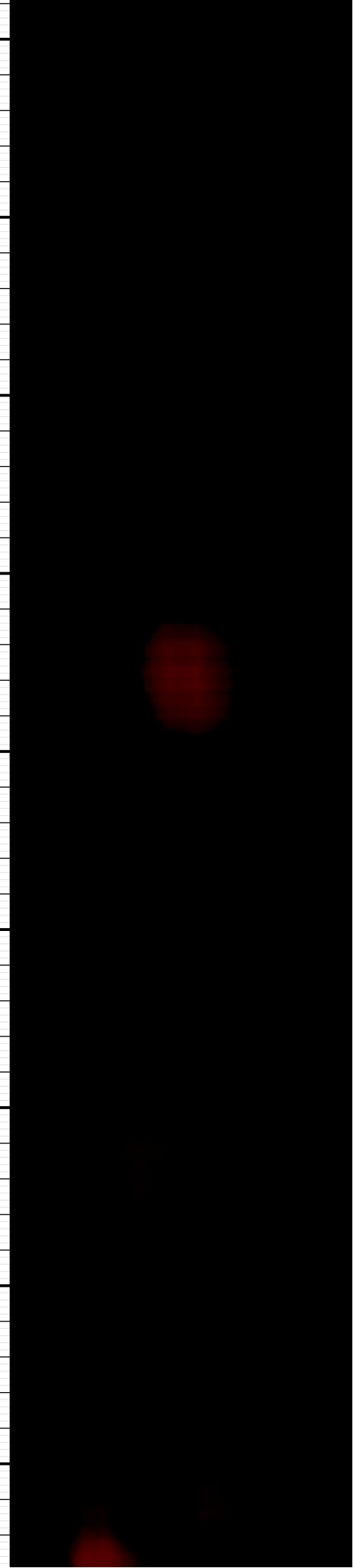
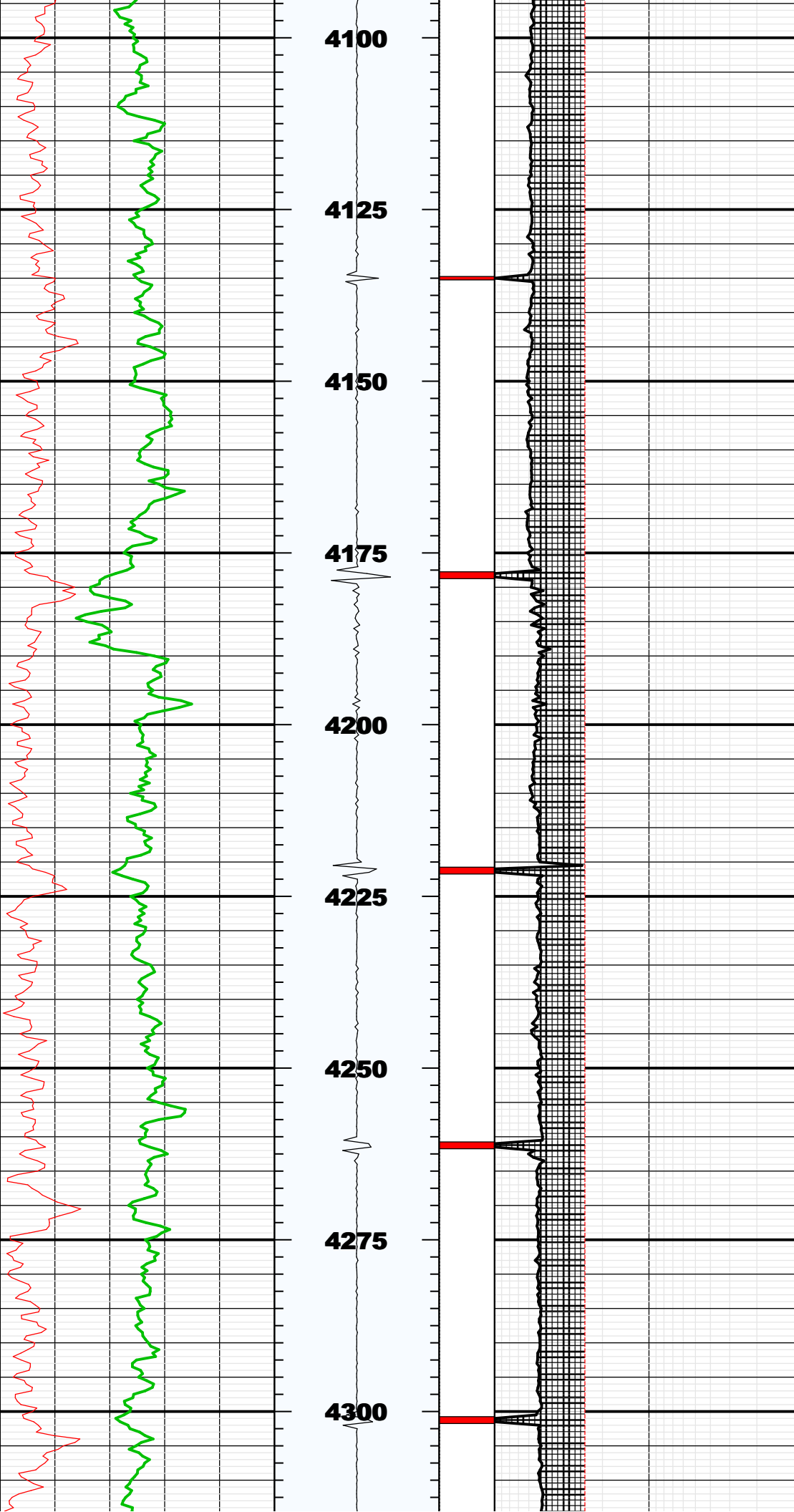


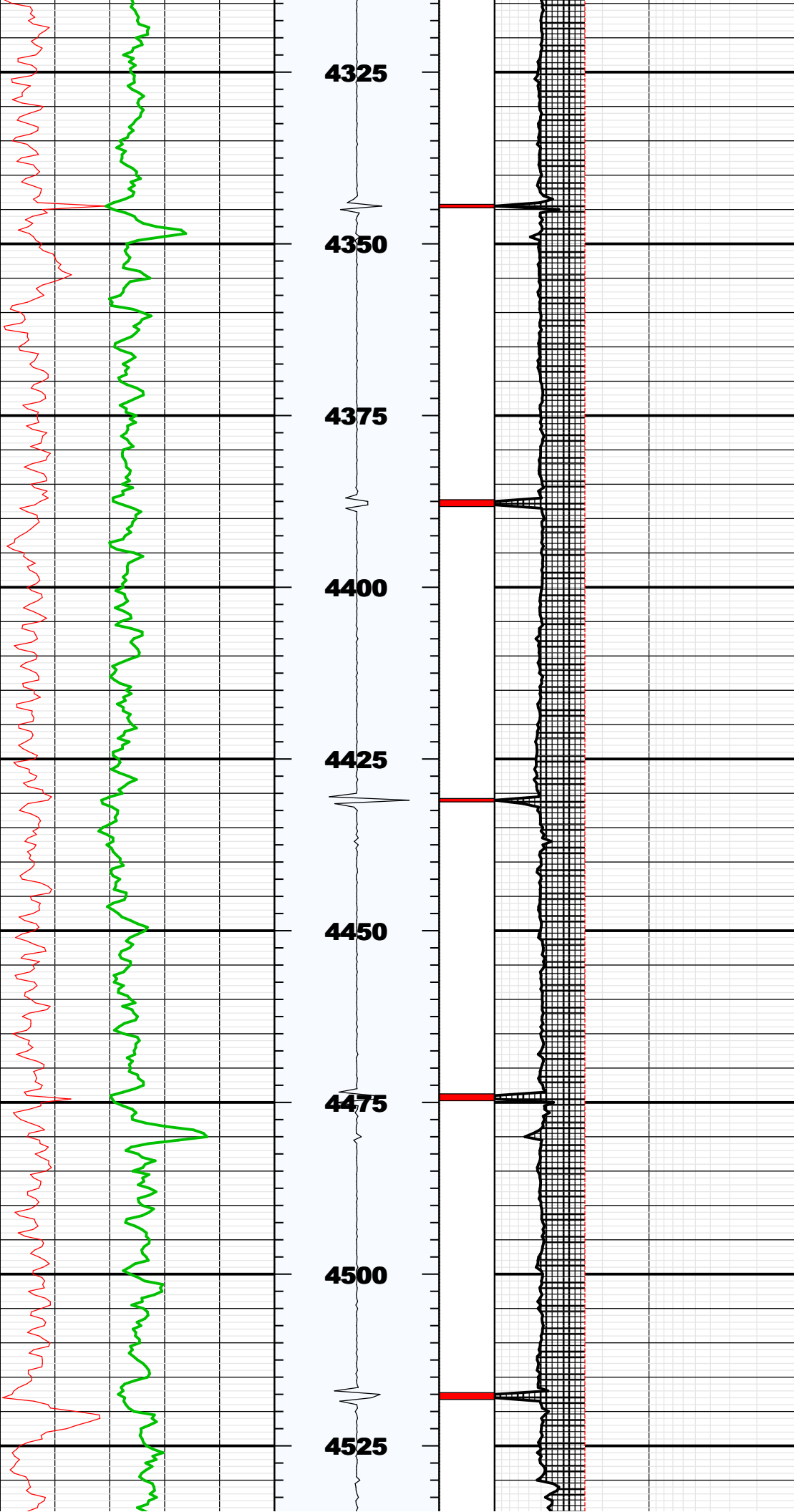




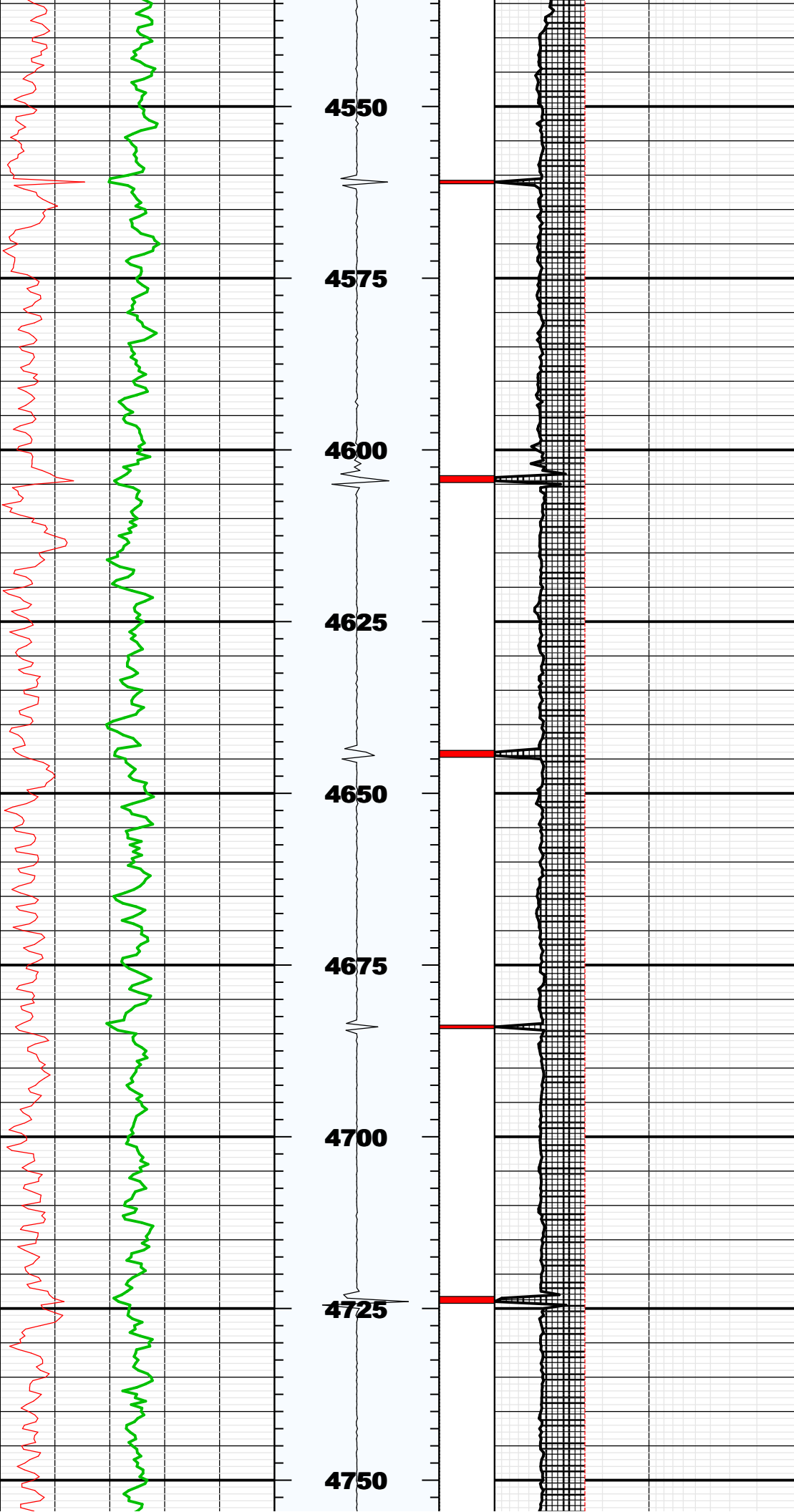




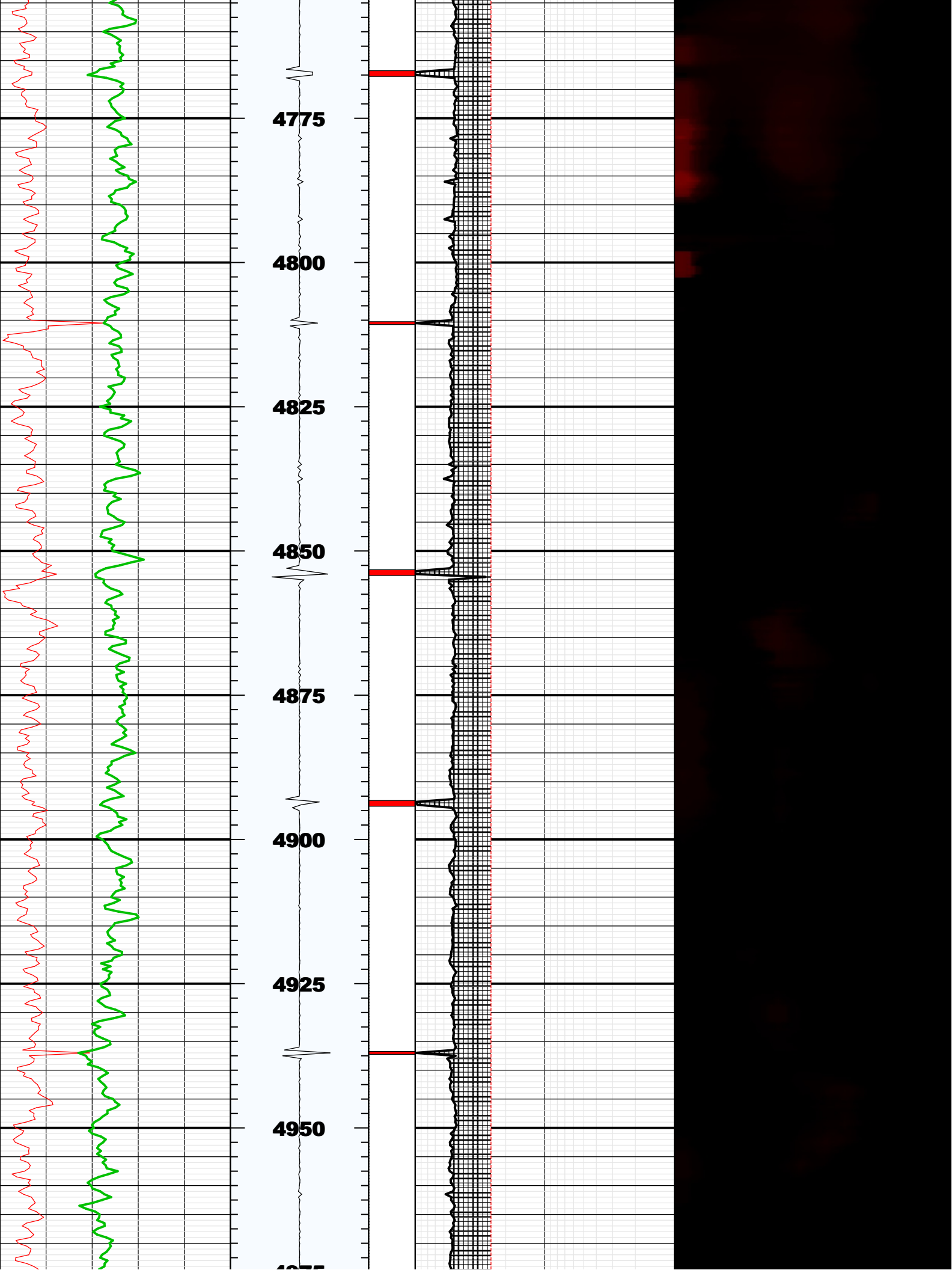


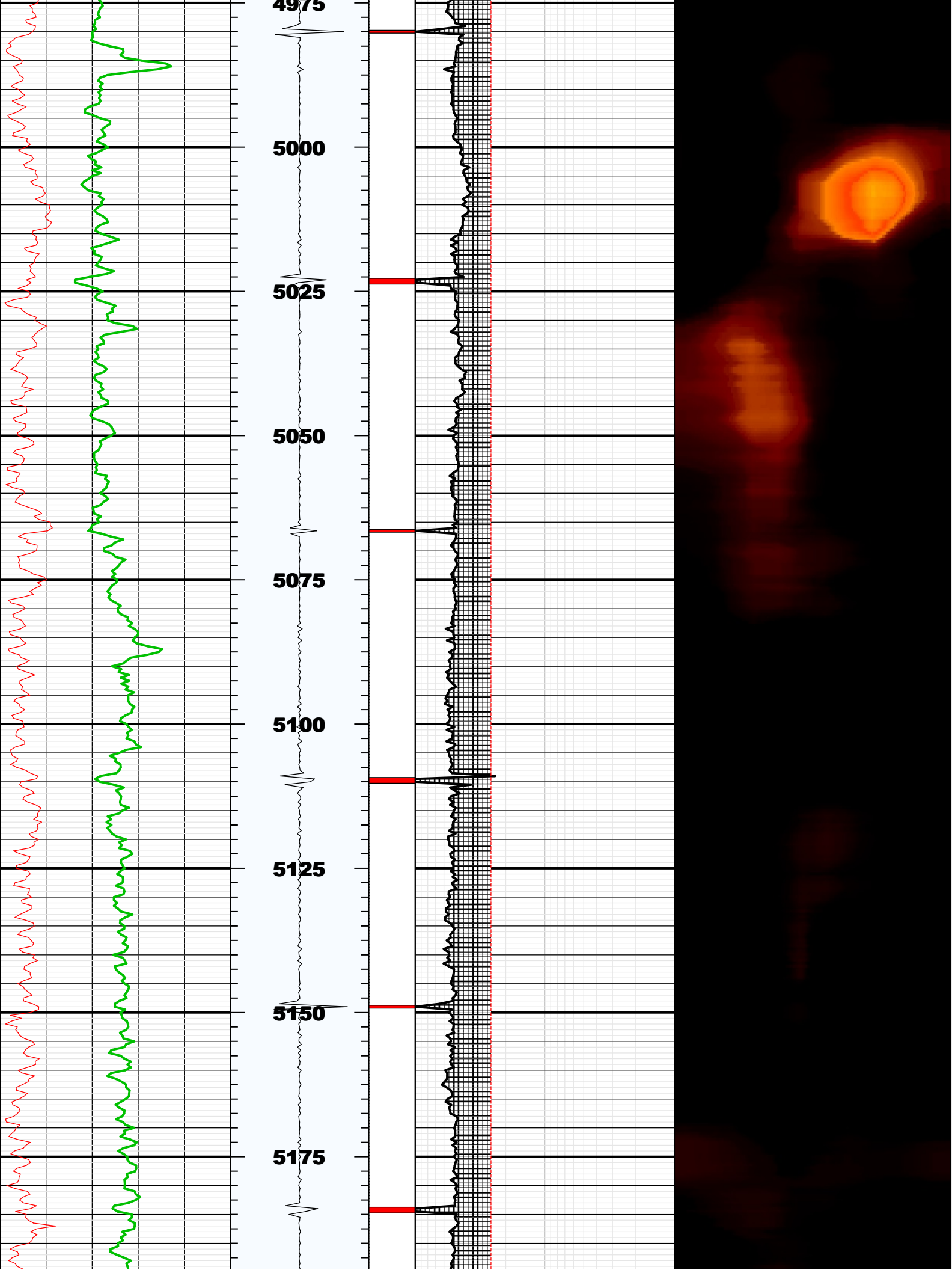


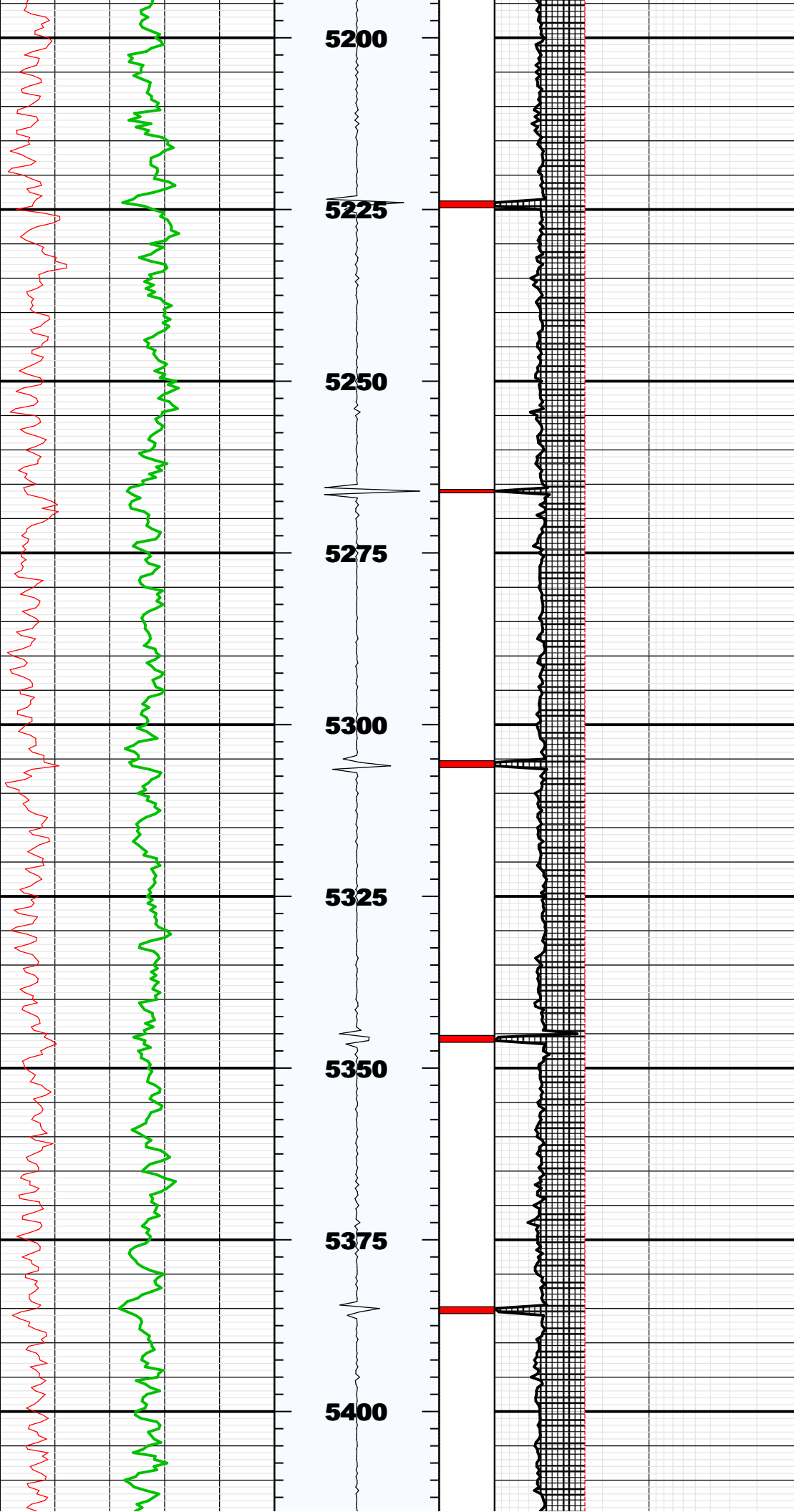


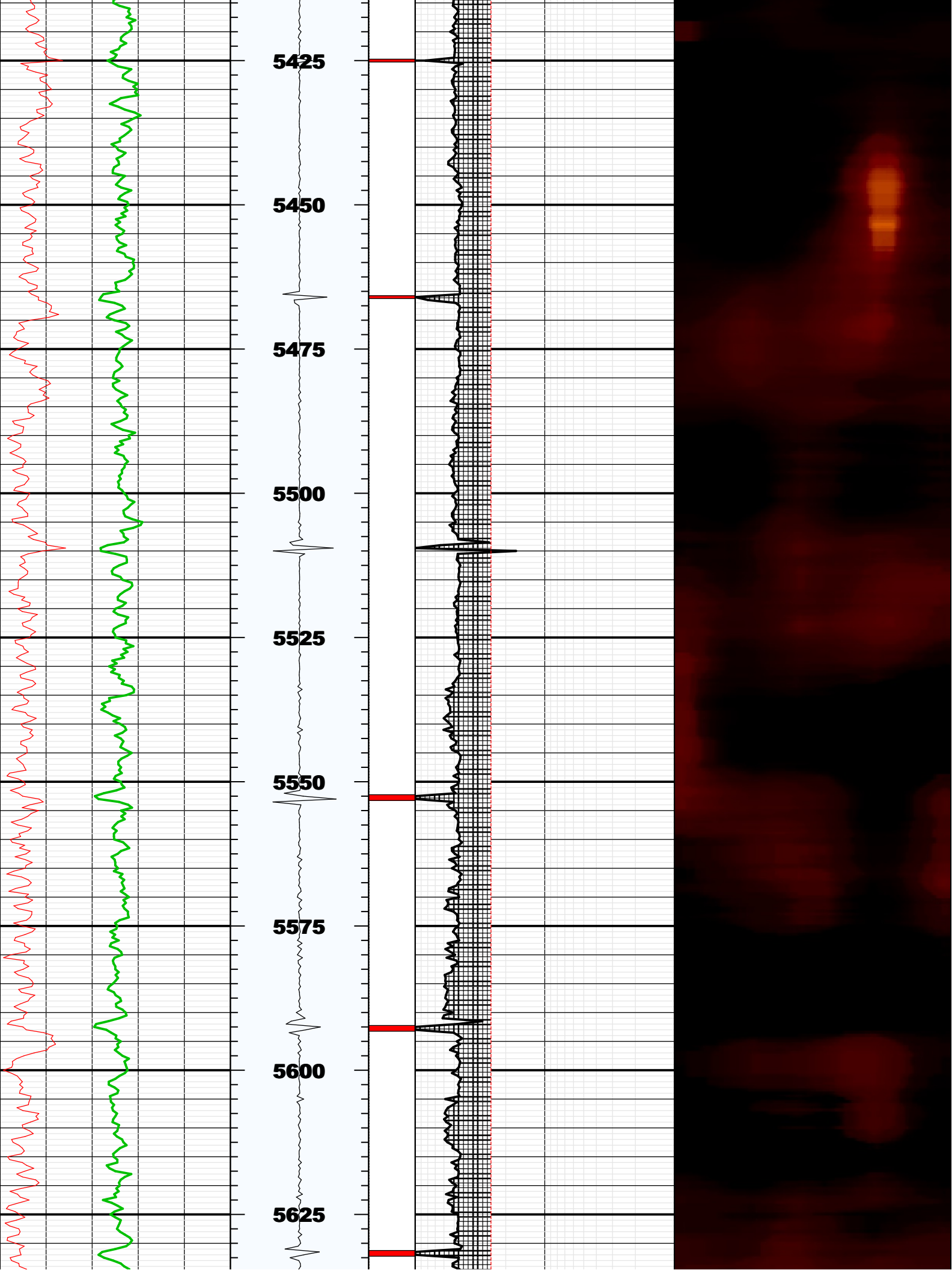


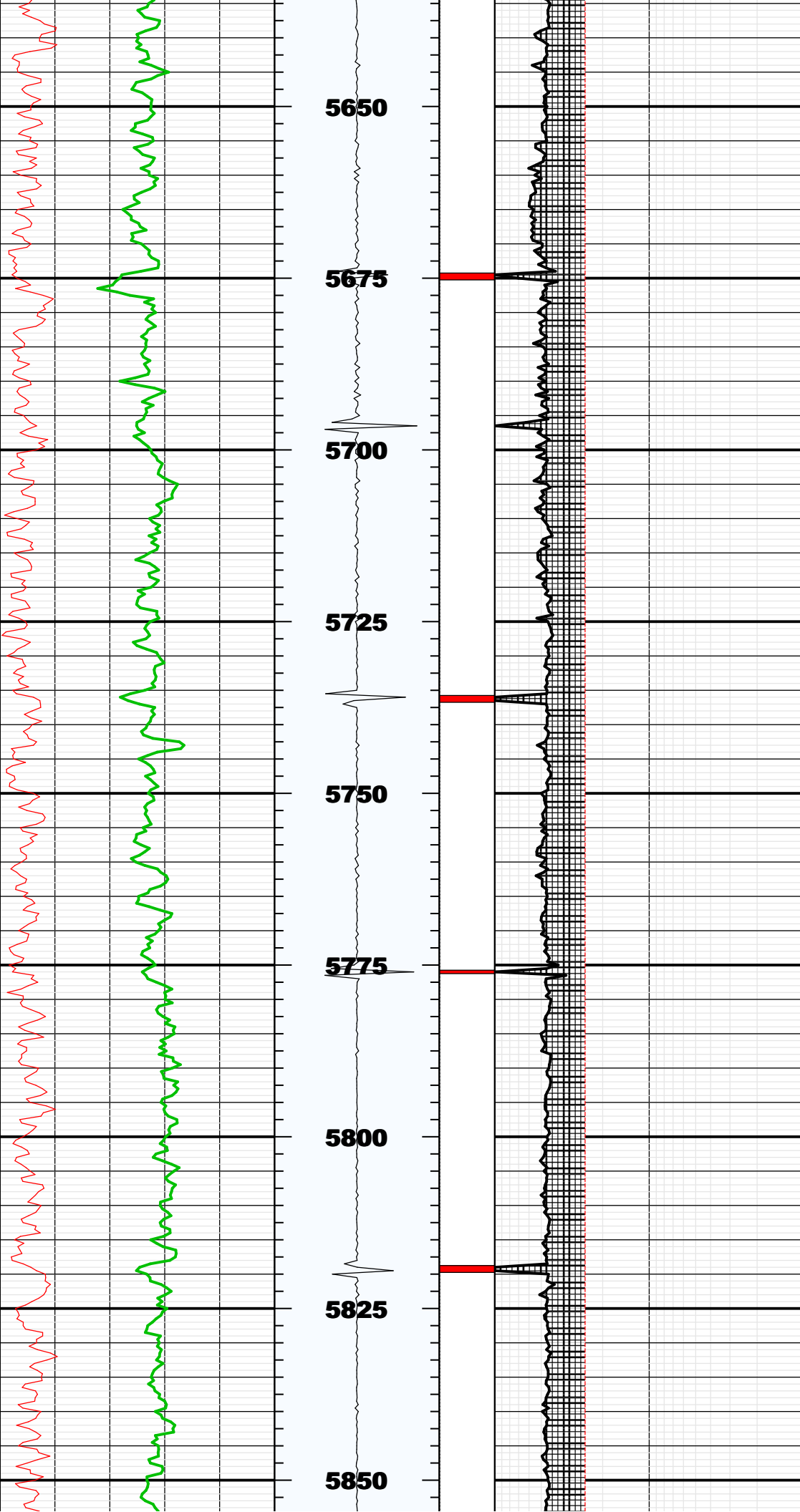




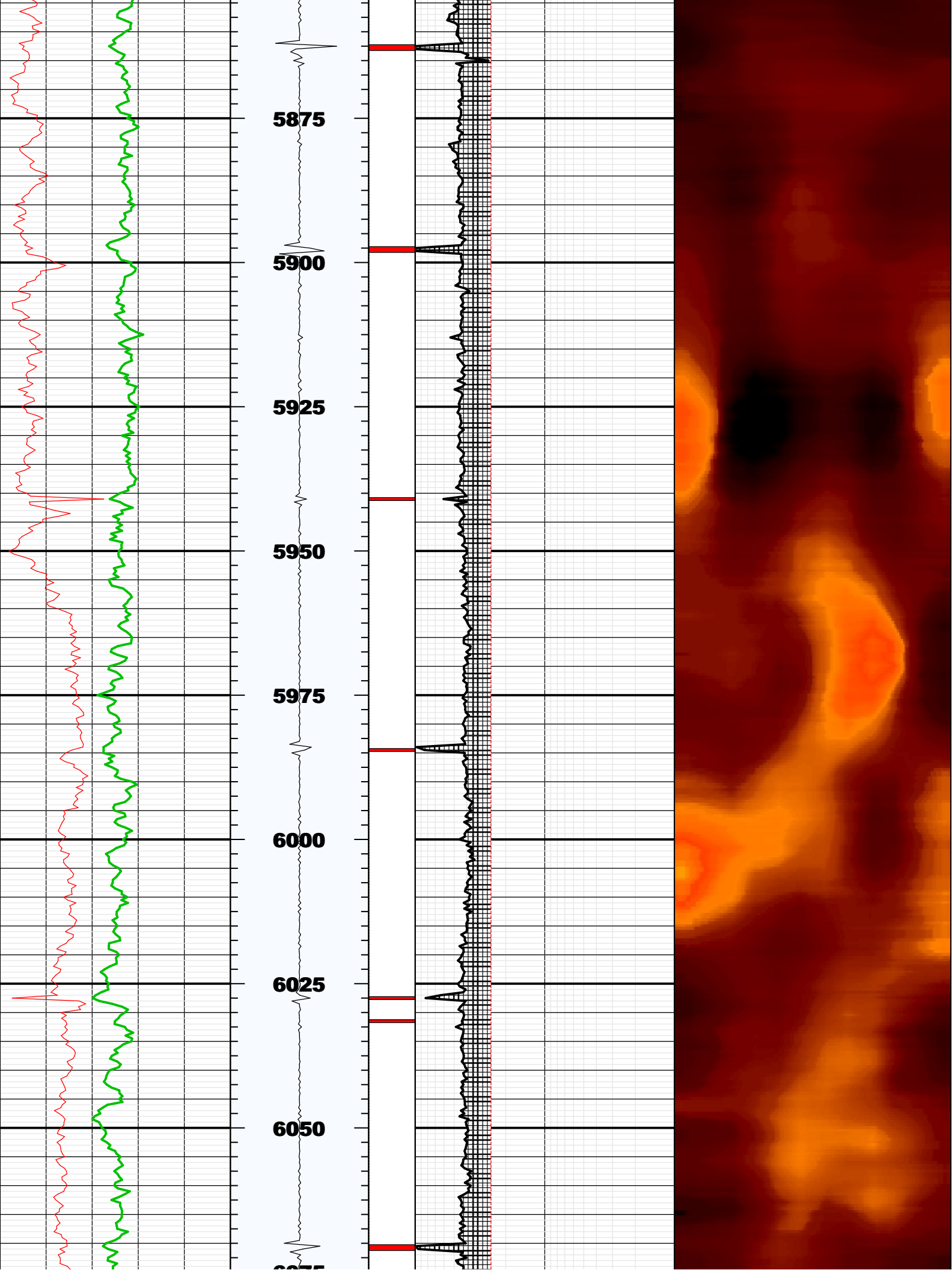


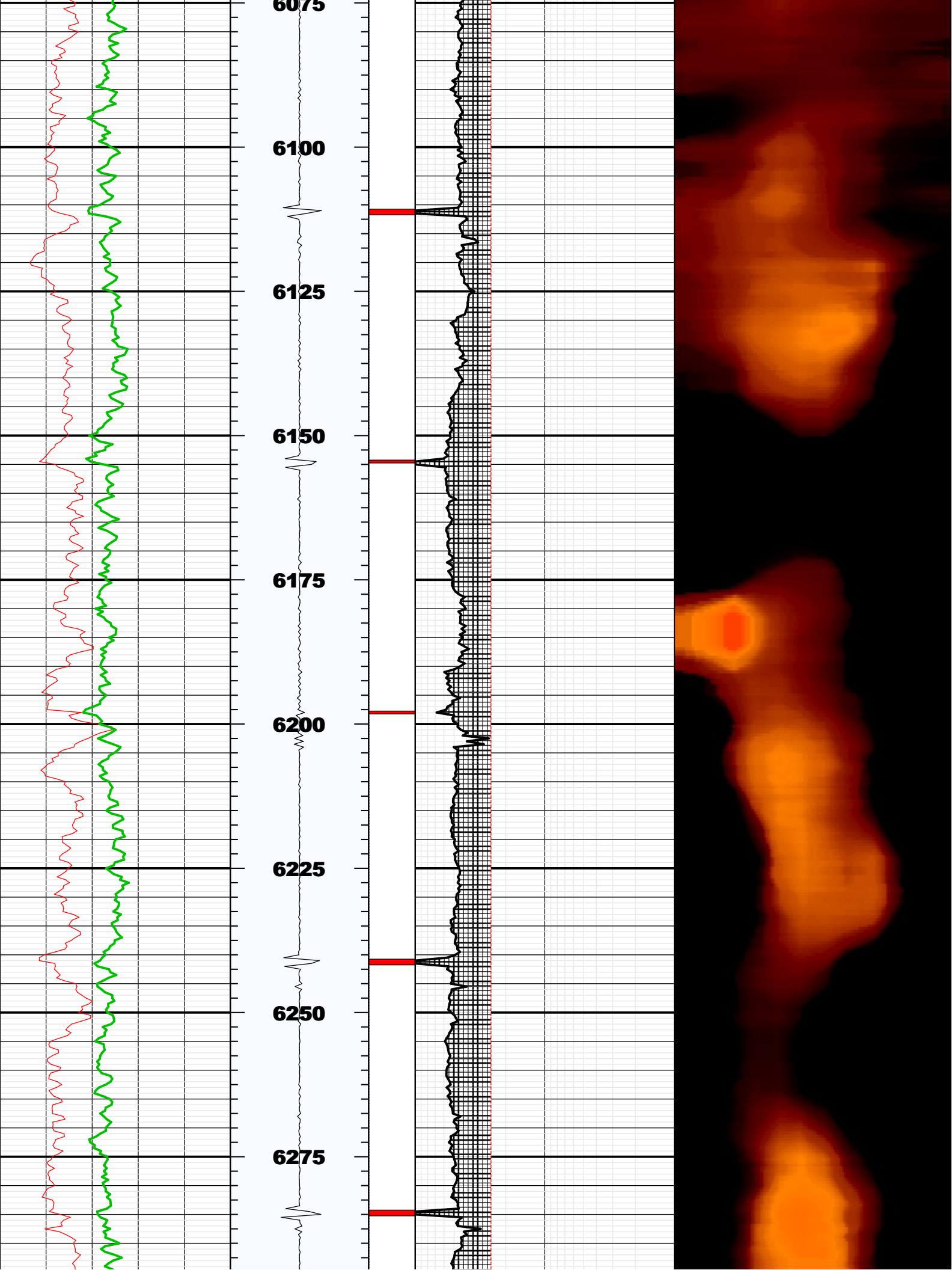


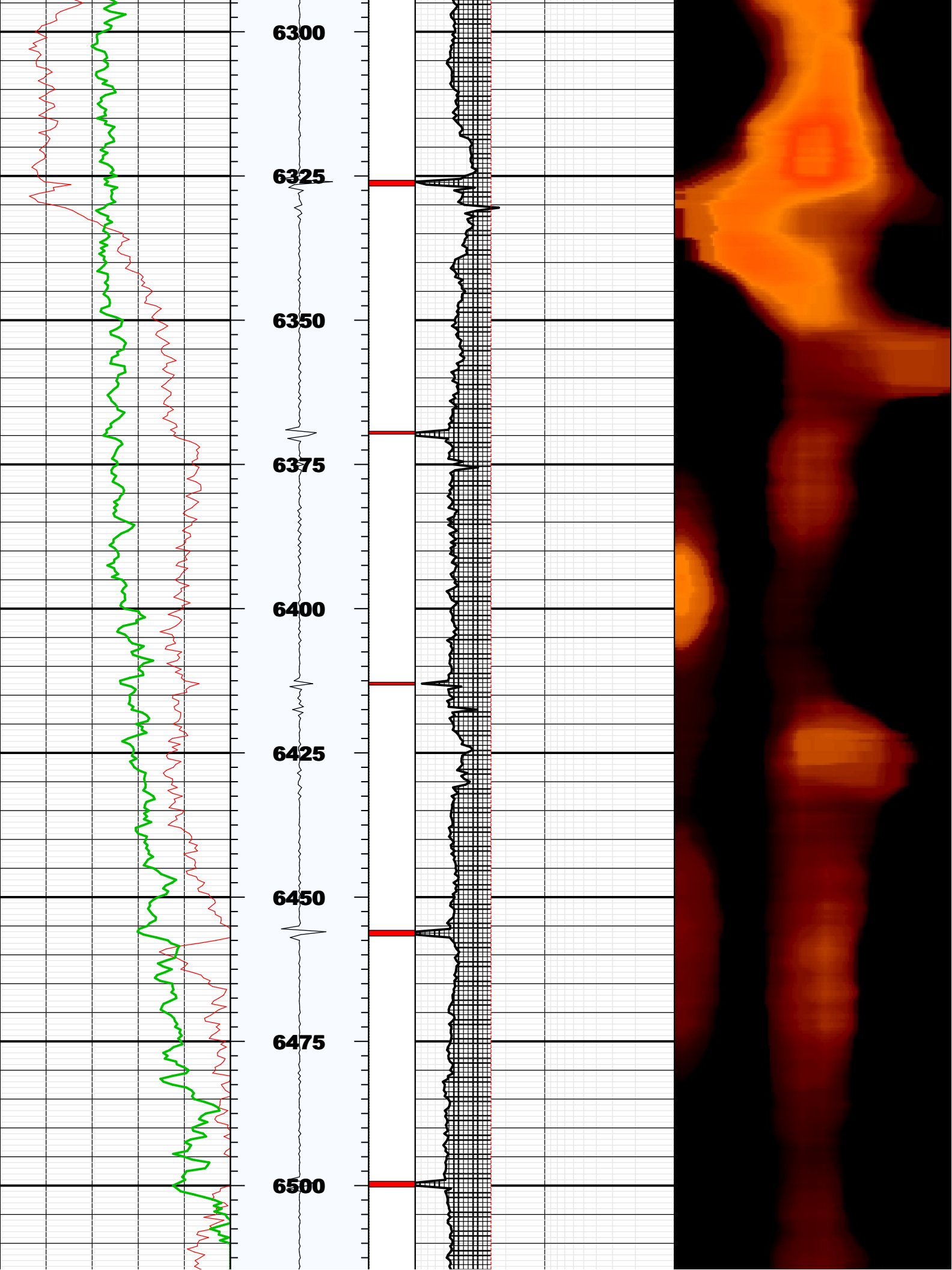




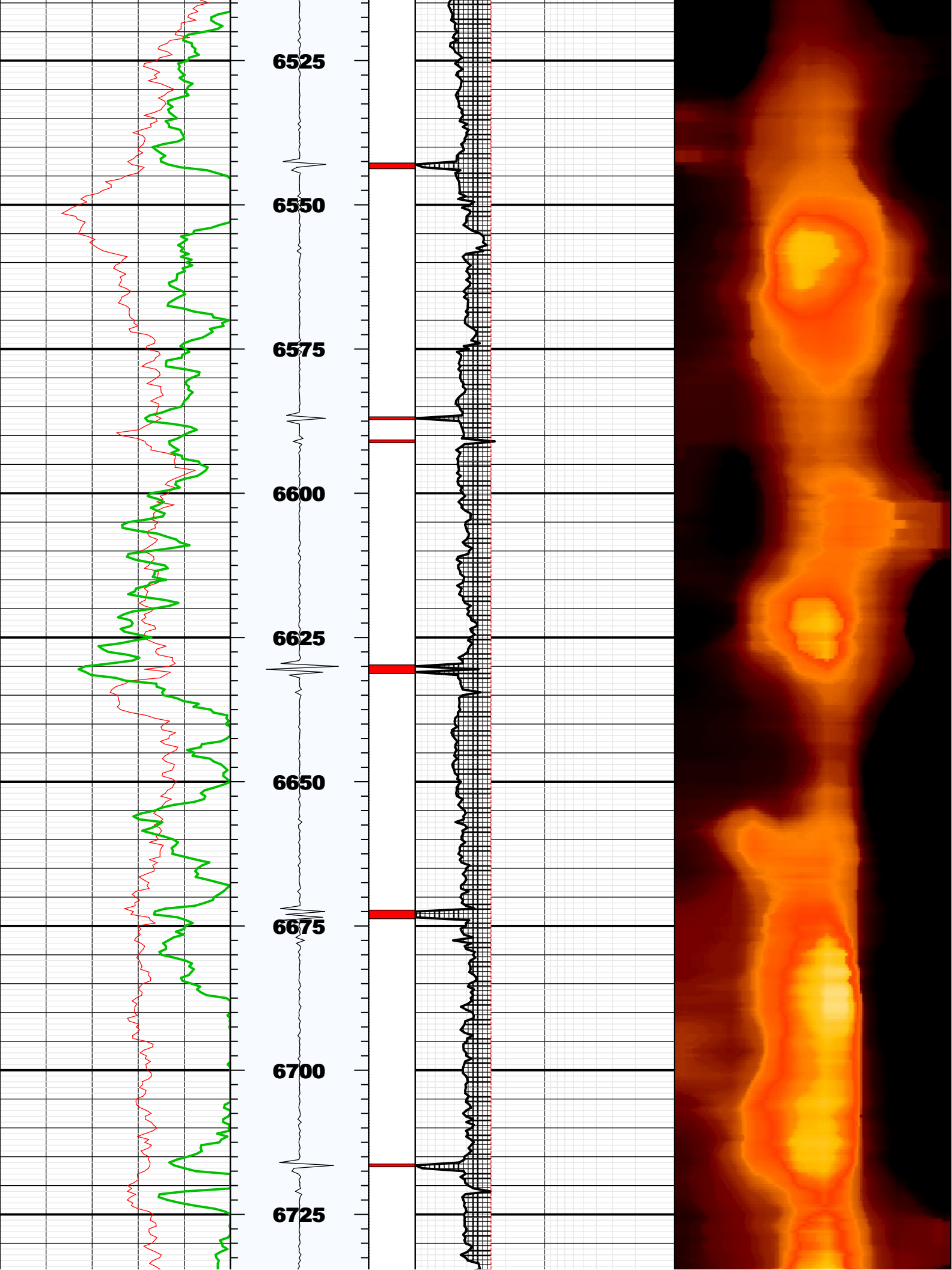


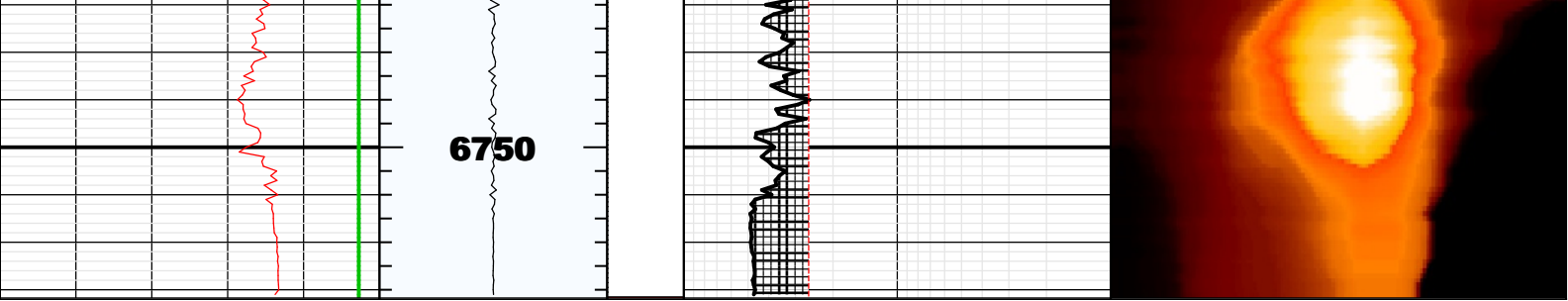








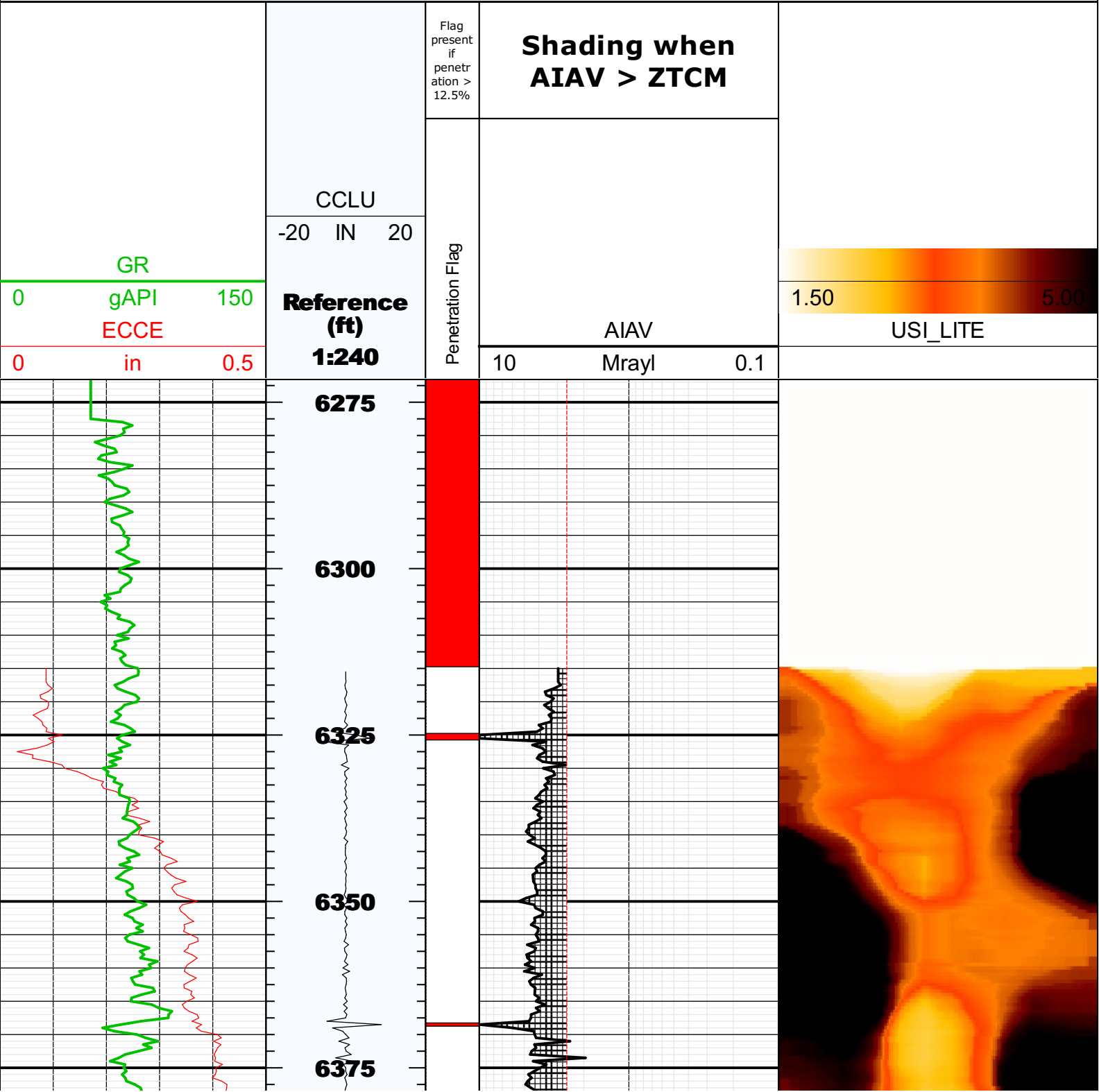


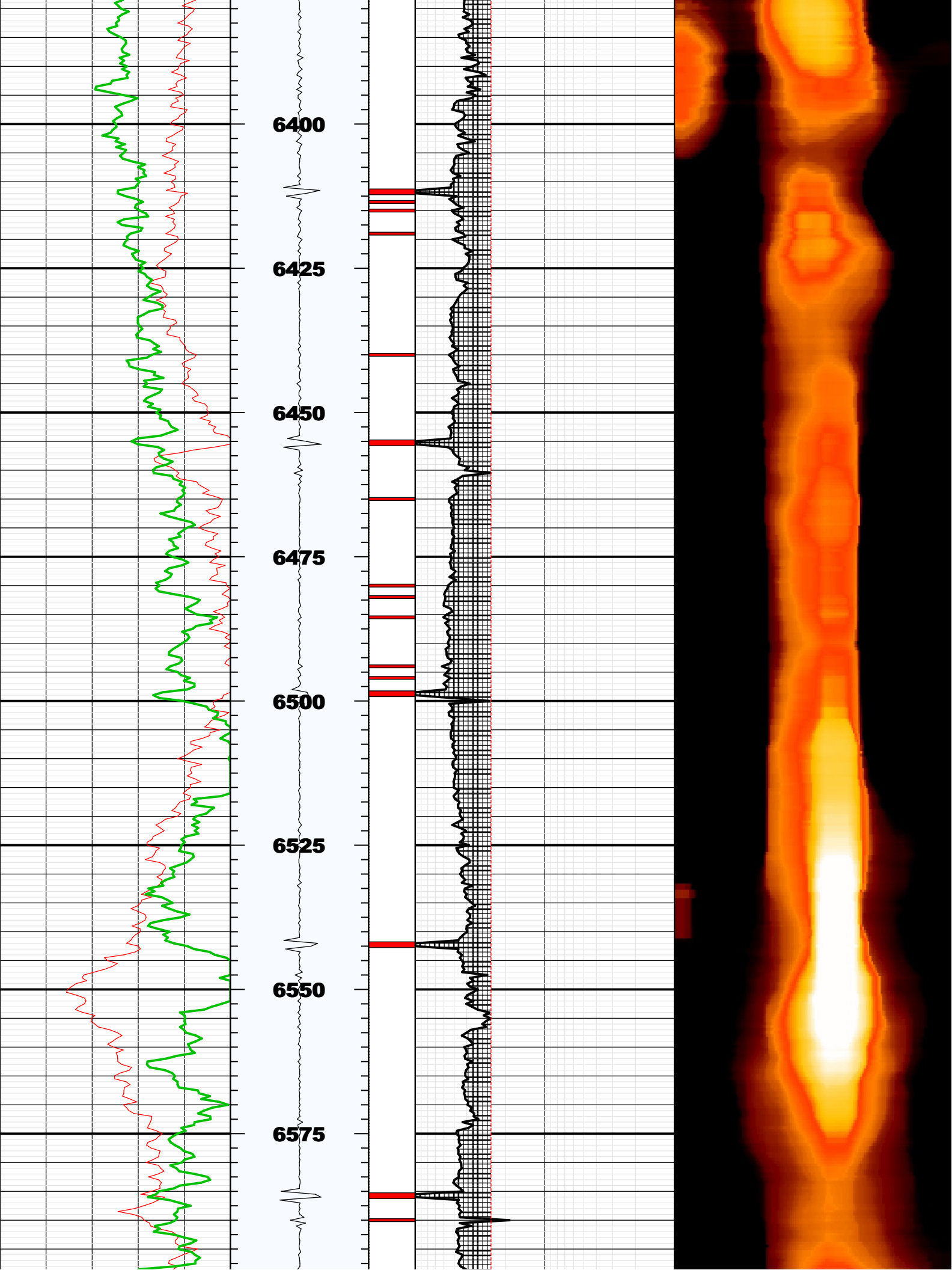


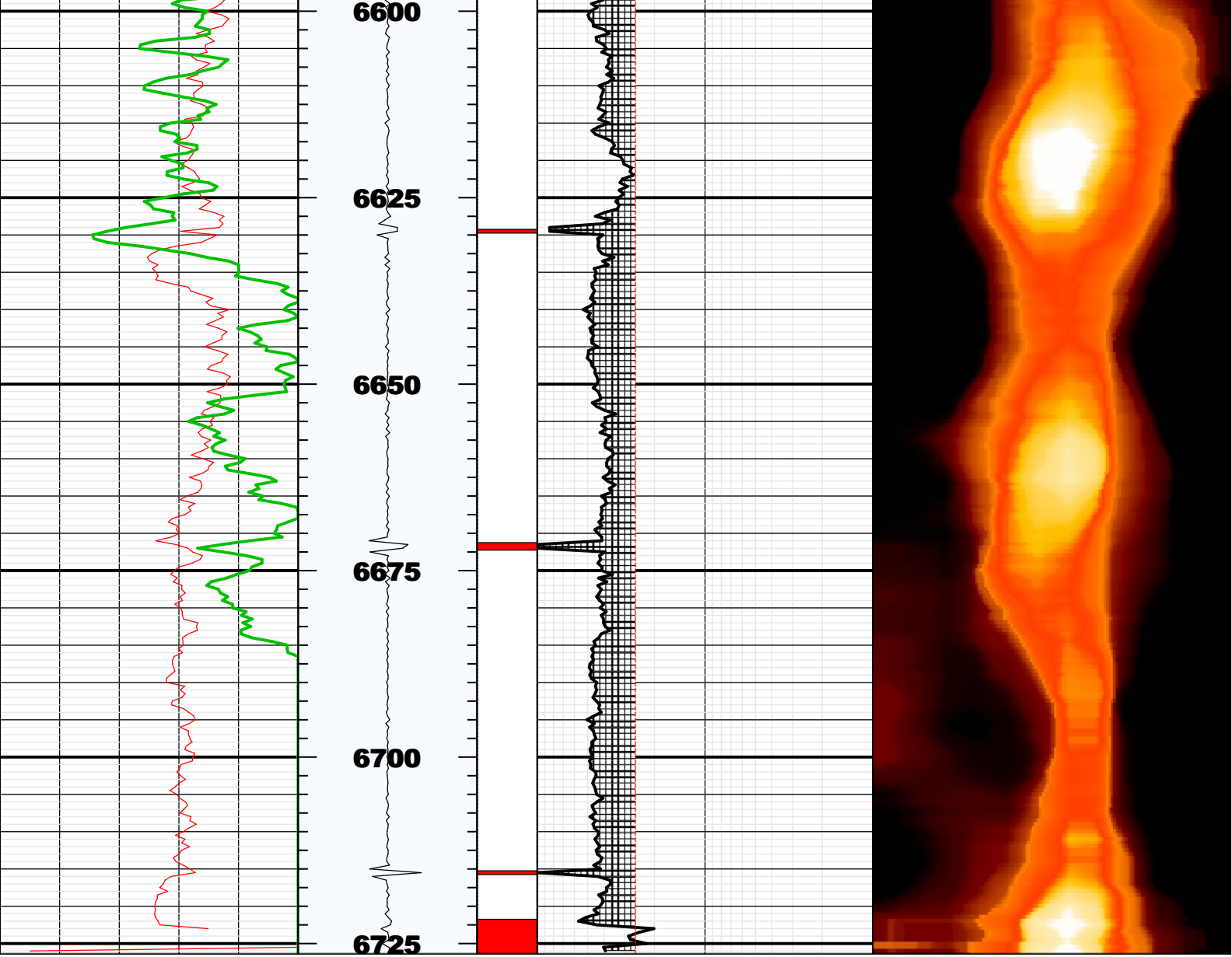
BS	8.75000	IN	Bit Size
CASG	P110		Casing Grade
CDIA	7.00000	IN	Casing Outer Diameter
CSID	6.27600	IN	Casing Inner Diameter
CSIZ	7.00000	IN	Current Casing Size
CWEI	26.00000	LB/F	Casing Weight
DFD	8.70000	LB/G	Drilling Fluid Density
DFVL	190.00000	US/F	Default Fluid Velocity
DO			
DOT	2.87400	IN	Diameter of Transducer Sensor
EMXV	40	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	30.00000	US	Window Begin Time
WINE	80.00000	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: AGGIE STATE AA17-625  
Field: WATTENBERG







## Fluid Properties Used for Main Pass

