

Company: Noble Energy Inc

Well: Cecil Farms PC 106-68-1HN
Field: Wattenberg
County: Weld State: Colorado

| | | | | | | | | | | | | | |
|--------------------------|--|-------------------------------------|--|--------------|--|----------------|--|--------------|--|---|--|--|--|
| USI-LITE | | | | | | | | | | Elev: K.B. 4900.0 F G.L. 4870.0 F D.F. 4899.0 F | | | |
| | | | | | | | | | | Permanent Datum: Log Measured From: Drilling Measured From: | | Ground Level Kelly Bushing Kelly Bushing | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| LOCATION | | API Serial No. 05-123-35998-0000 | | Section 6 | | Township 6N | | Range 66W | | | | | |
| Logging Date | | 27-Mar-2014 | | | | | | | | | | | |
| Run Number | | 1 | | | | | | | | | | | |
| Depth Driller | | 11923.0 F | | | | | | | | | | | |
| Schlumberger Depth | | 7500.0 F | | | | | | | | | | | |
| Bottom Log Interval | | 7500.0 F | | | | | | | | | | | |
| Top Log Interval | | 0.0 F | | | | | | | | | | | |
| Casing Fluid Level | | 0.0 F | | | | | | | | | | | |
| Salinity | | | | | | | | | | | | | |
| Density | | 8.40 LB/G | | | | | | | | | | | |
| Fluid Level | | 0.0 F | | | | | | | | | | | |
| BIT/CASING/TUBING STRING | | | | | | | | | | | | | |
| Bit Size | | 8.750 IN | | | | | | | | | | | |
| From | | | | | | | | | | | | | |
| To | | | | | | | | | | | | | |
| Casing Size | | 7.00 IN | | | | | | | | | | | |
| Weight | | 26.00 LB/F | | | | | | | | | | | |
| Grade | | P-110 | | | | | | | | | | | |
| From | | | | | | | | | | | | | |
| To | | | | | | | | | | | | | |
| Max Recorded Temp | | | | | | | | | | | | | |
| Logger on bottom (date) | | 27-Mar-2014 | | | | | | | | | | | |
| Location | | Ft. Morgan CO | | | | | | | | | | | |
| Recorded By | | Tim Hoffman | | | | | | | | | | | |
| Witnessed By | | Eric Klem | | | | | | | | | | | |

DEPTH SUMMARY LISTING

DEPTH SYSTEM EQUIPMENT

| Depth Measuring Device | | Tension Device | | Logging Cable | |
|-------------------------|-------------|-------------------------------|-------------|----------------|--------|
| Type: | IDW-B | Type: | CMTD-B/A | Serial Number: | 711136 |
| Serial Number: | 6239 | Serial Number: | 1109 | Length: | 13500 |
| Calibration Date: | 10-Jan-2014 | Calibration Date: | 17-Mar-2014 | | |
| Calibration Cable Type: | 7-39P-LXS | Calibrator Serial Number: | 78135 | | |
| Wheel Correction 1: | -4 | Number Of Calibration Points: | 10 | | |
| Wheel Correction 2: | -2 | Calibration RMS: | 4.00000 | | |
| | | Calibration Peak Error: | 7.00000 | | |

DISCLAIMER

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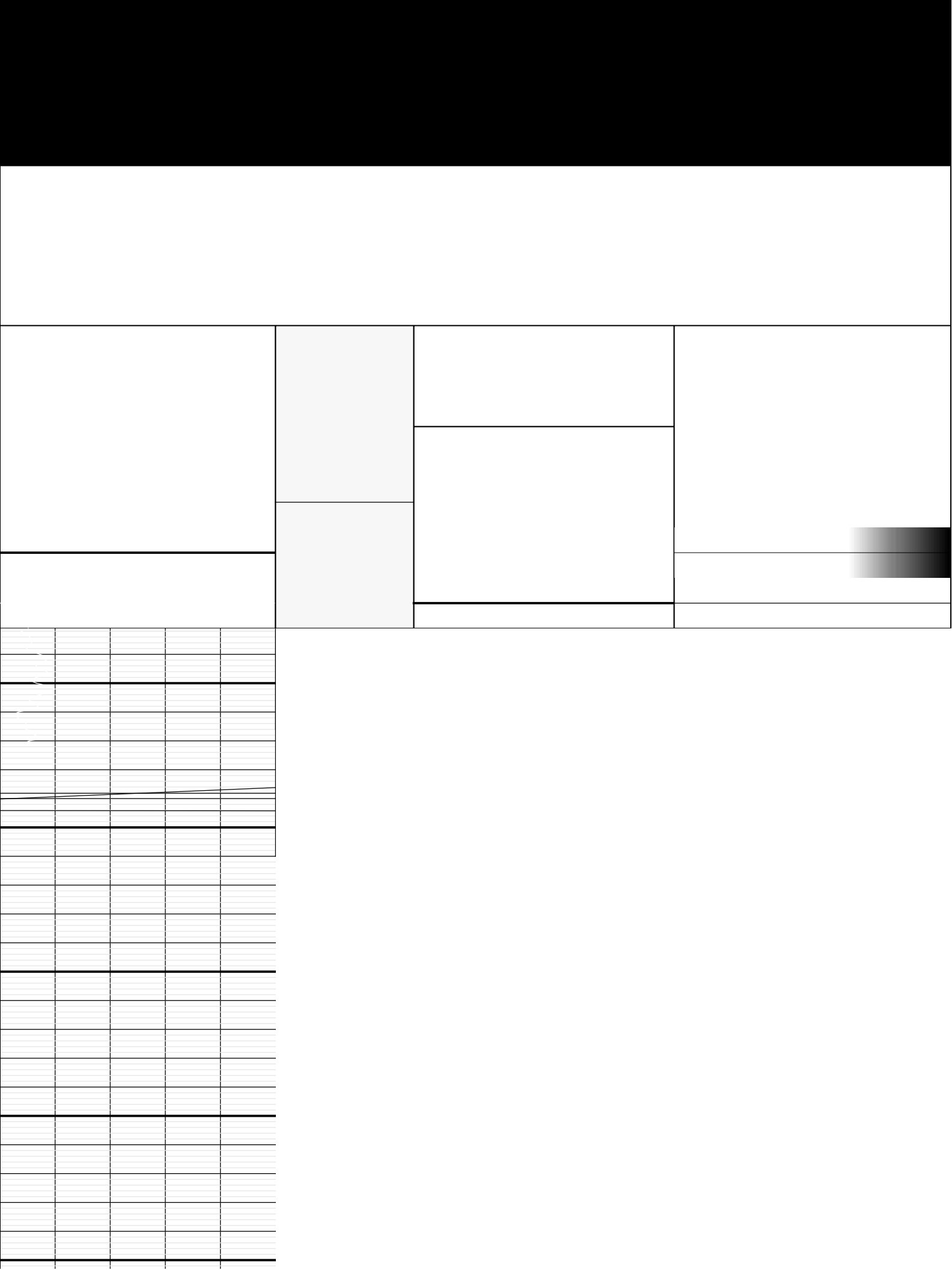
This is the first run in hole
Toolstring run as per tool sketch

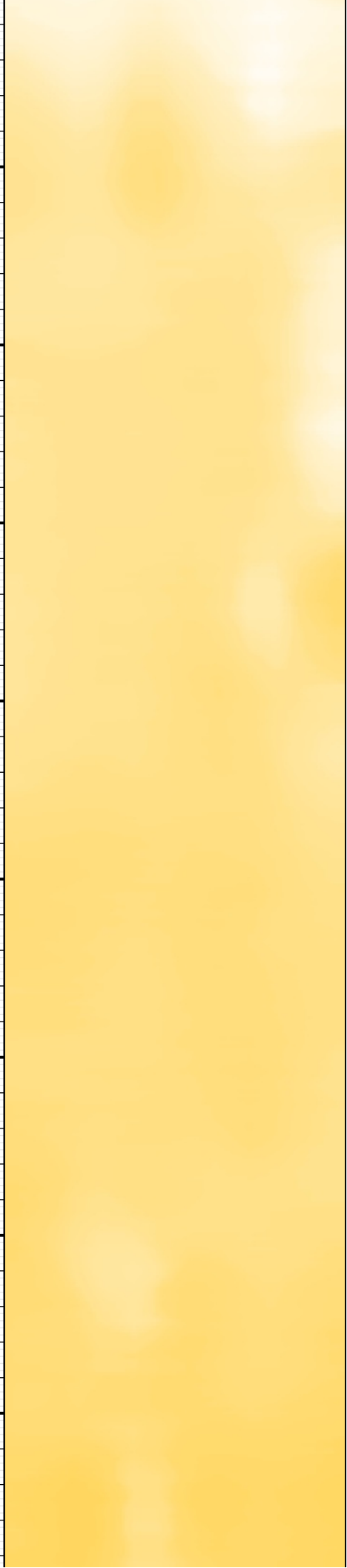
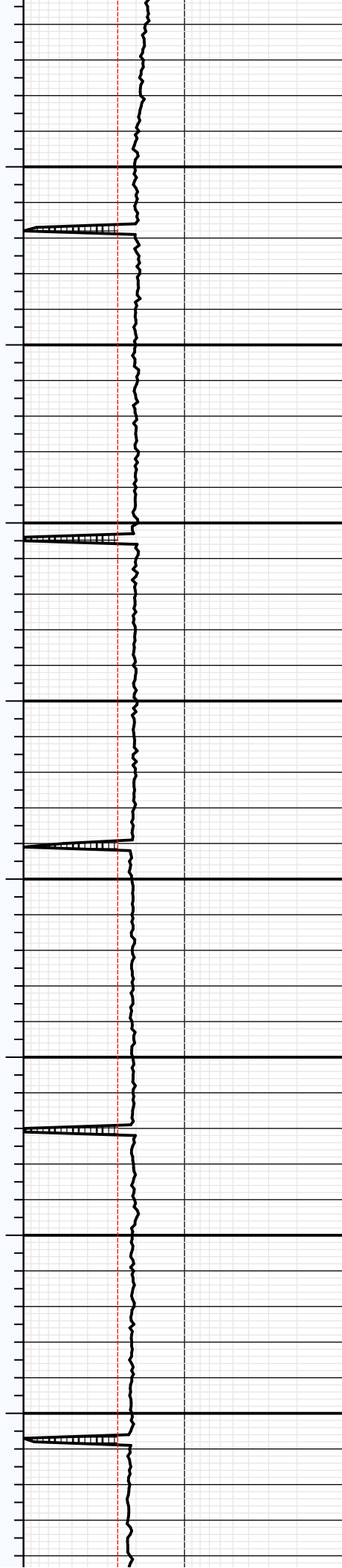
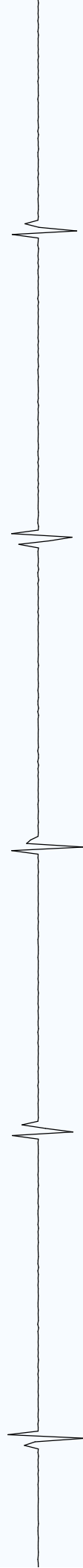
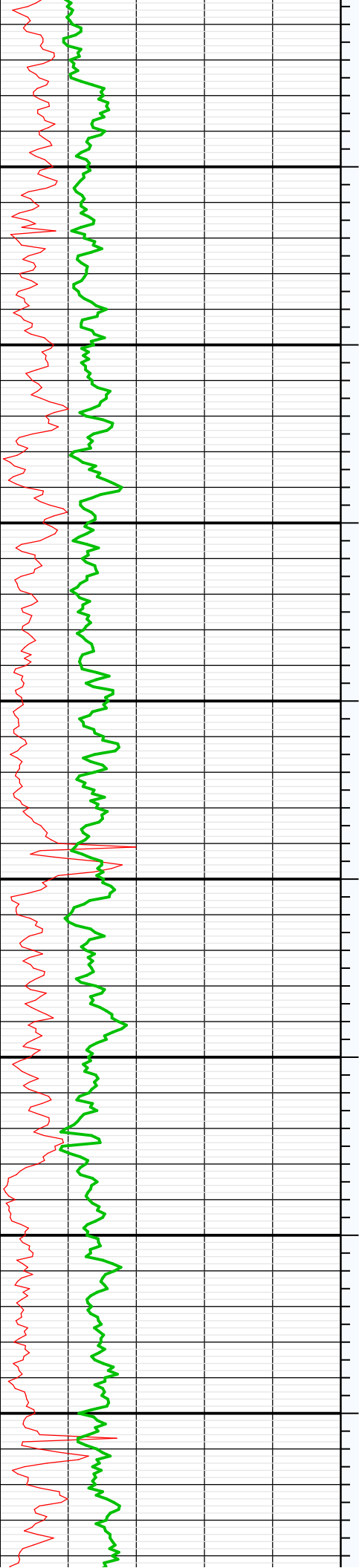
Lead Cement 12.5 ppg
Tail Cement 13.8 ppg

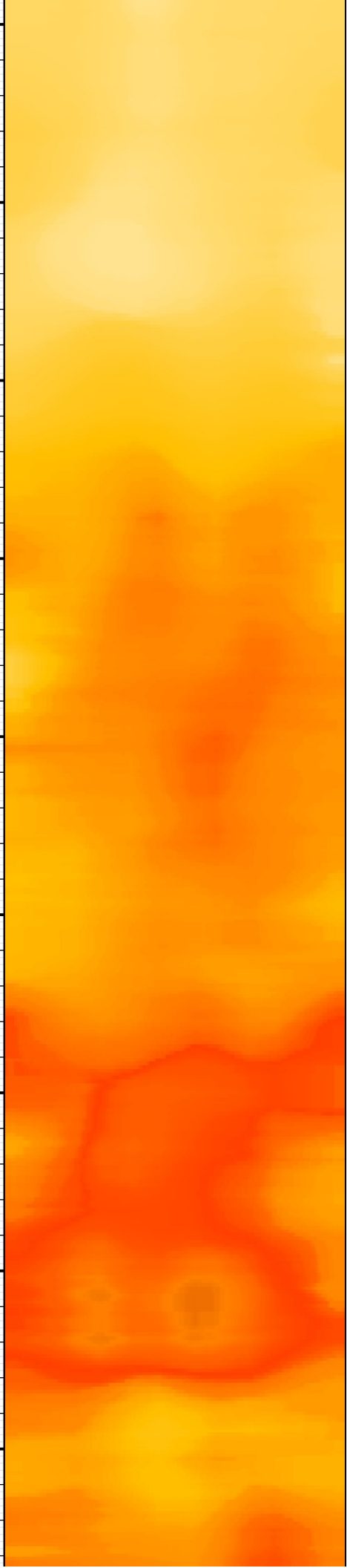
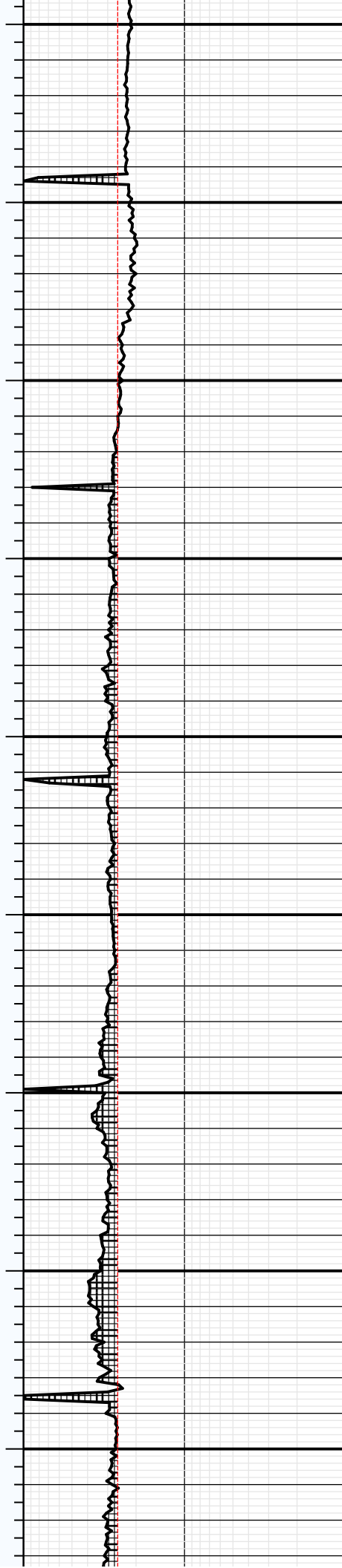
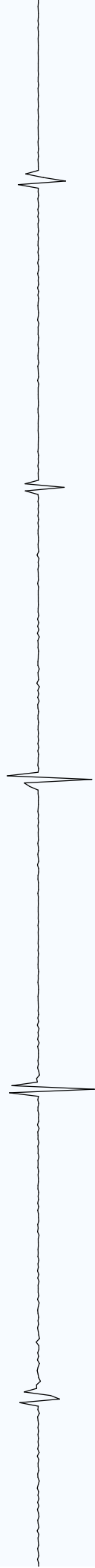
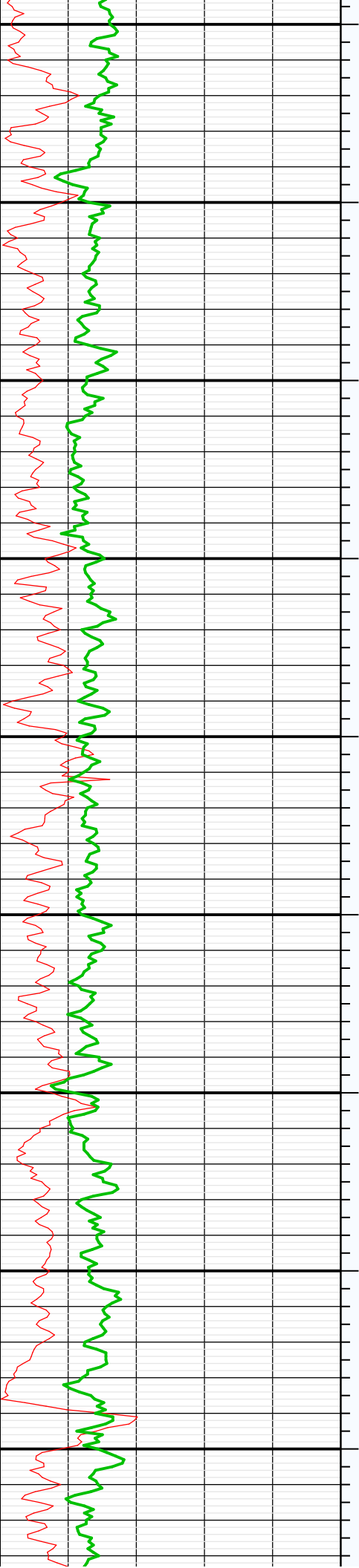
0 PSI repeat pass
3000 PSI main pass

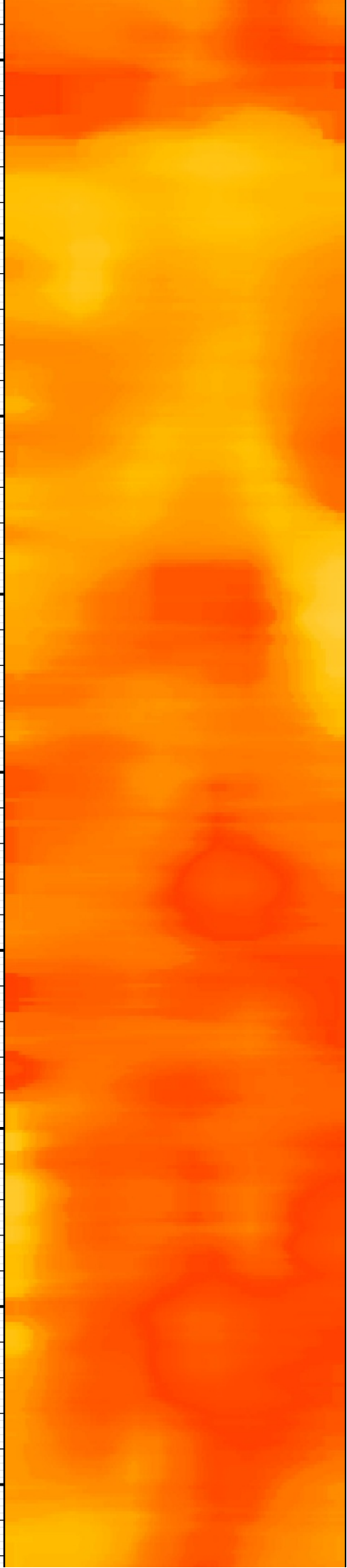
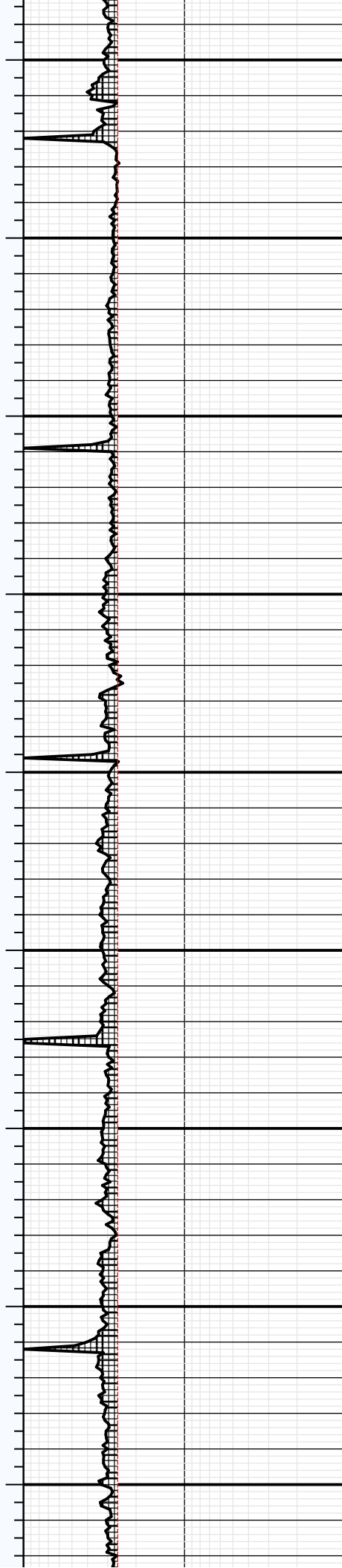
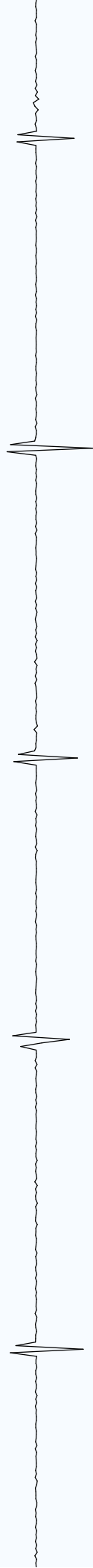
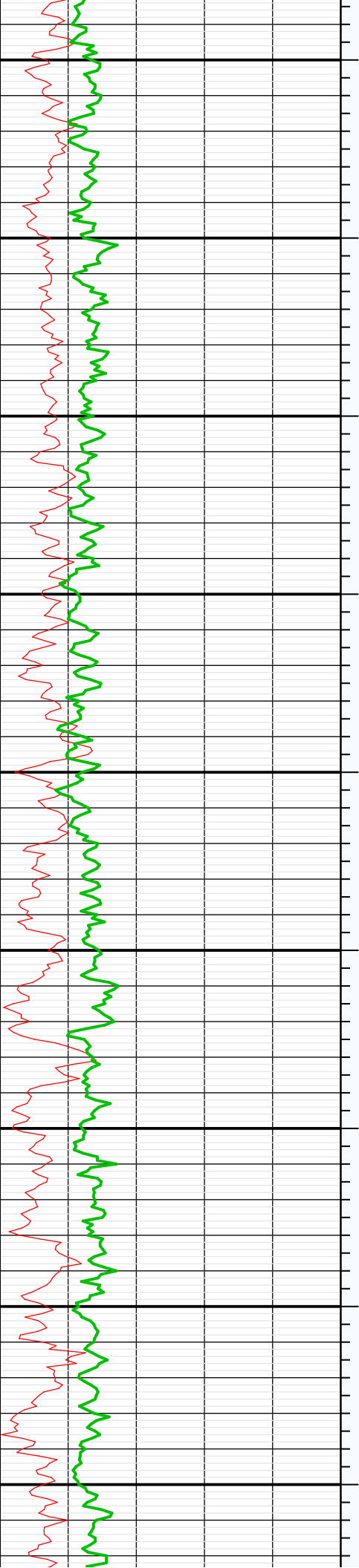
Rig Crane

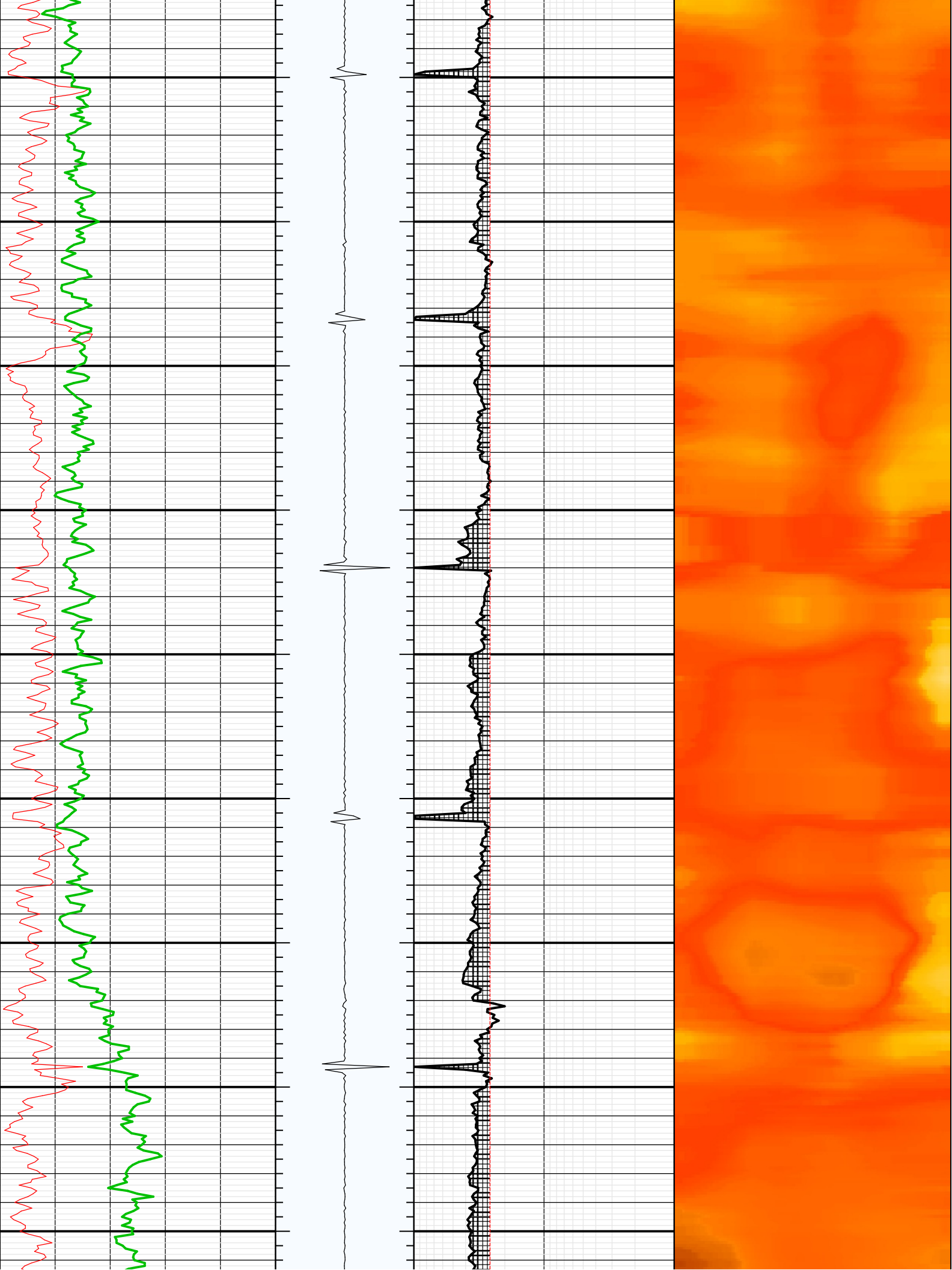
Crew Derrick Hunter Jay Musgrave

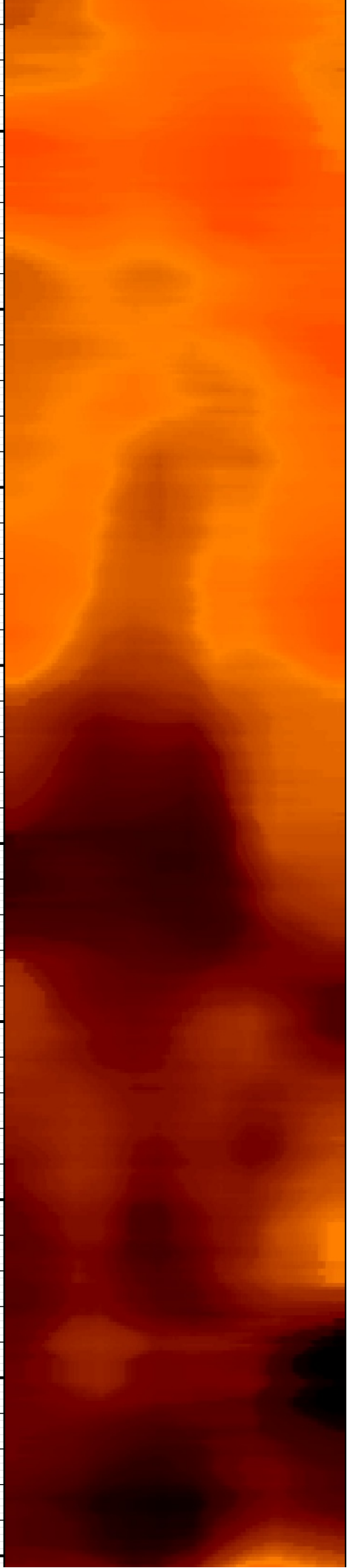
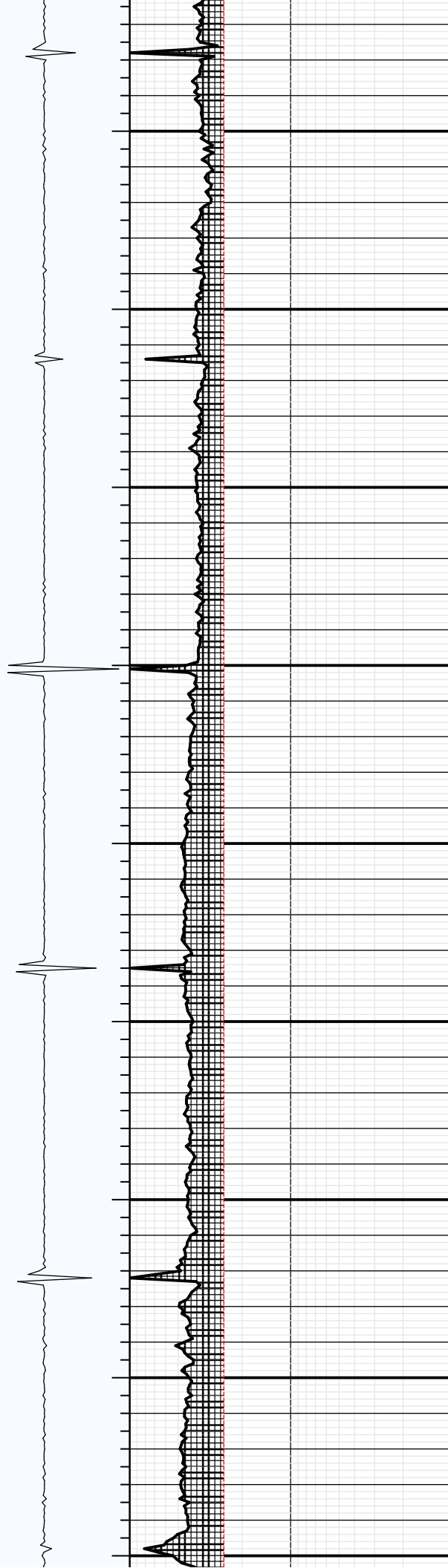
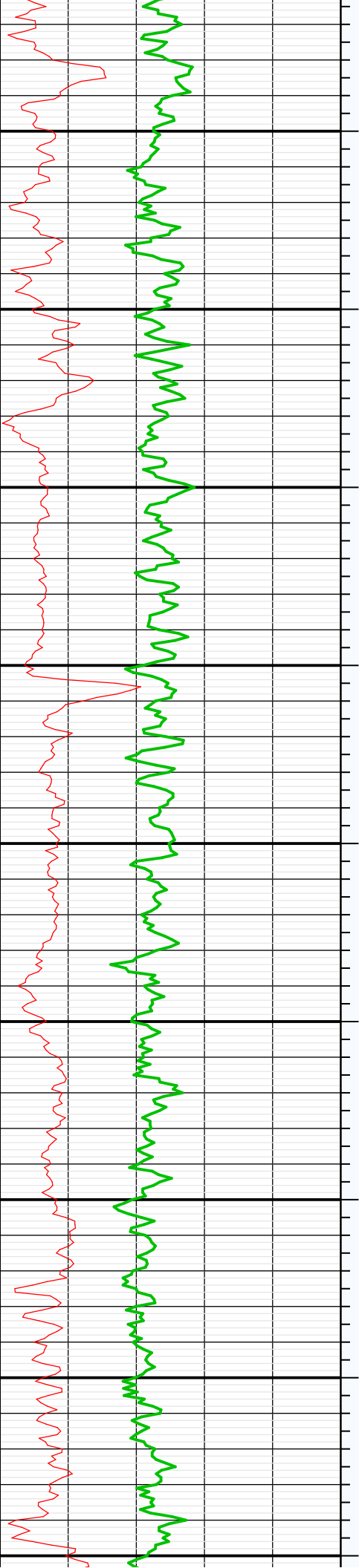


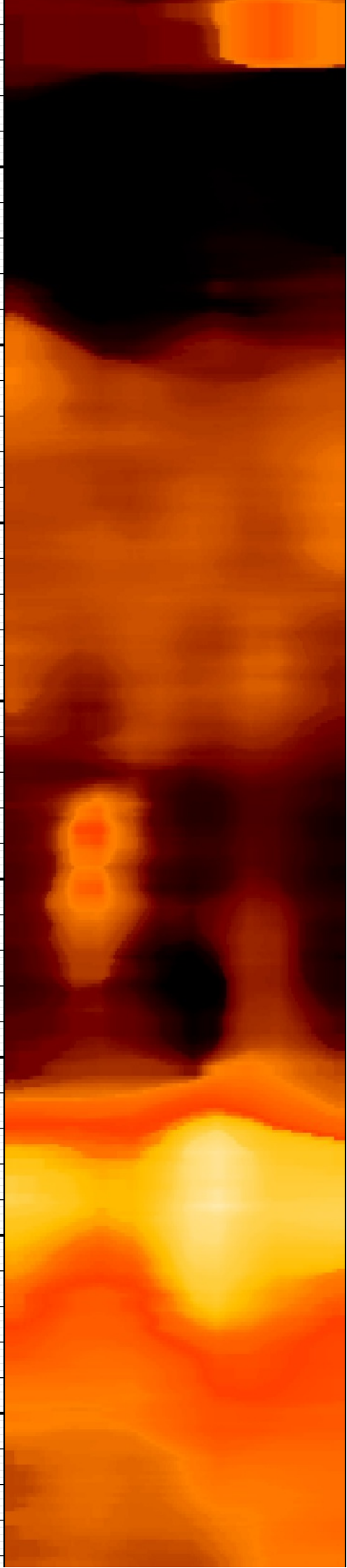
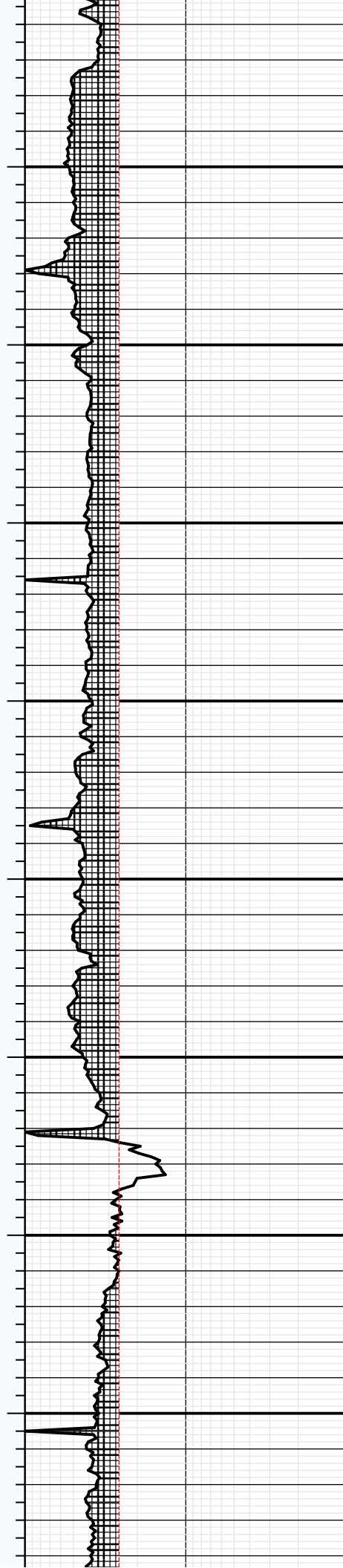
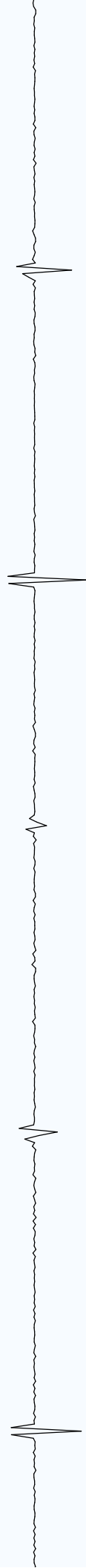
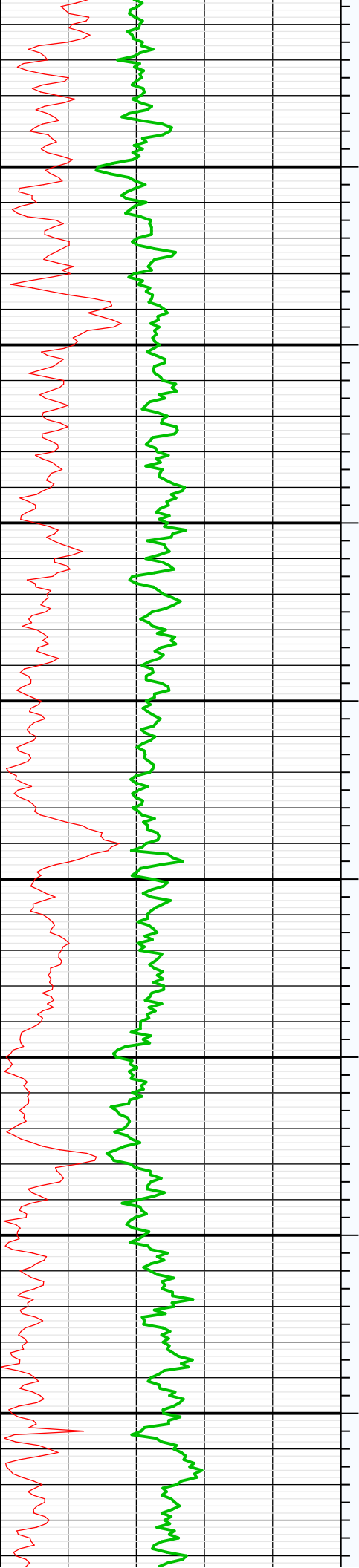


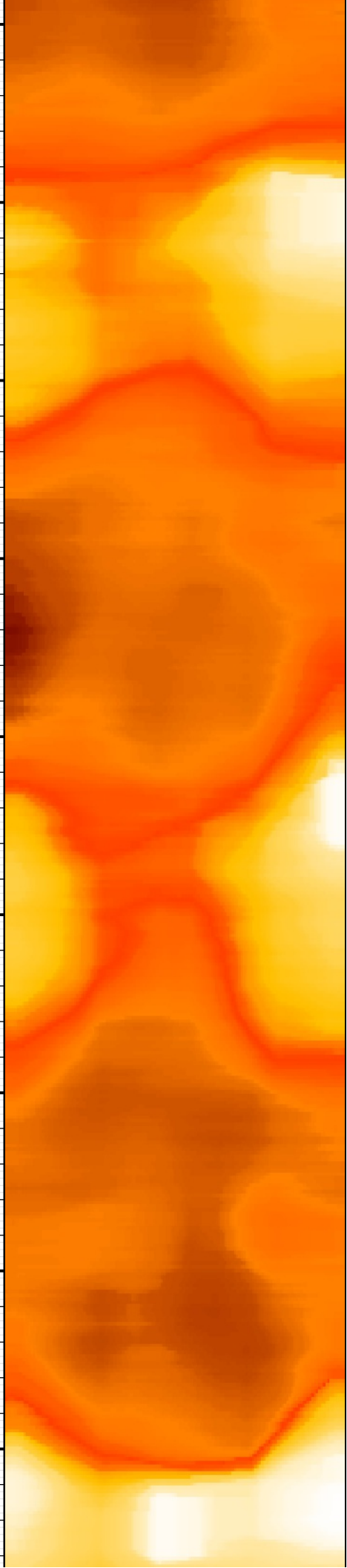
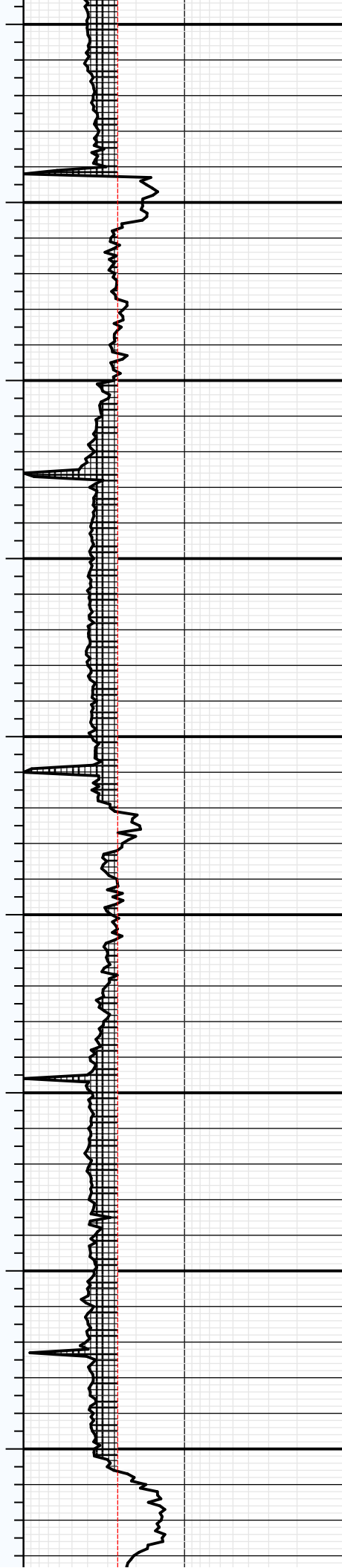
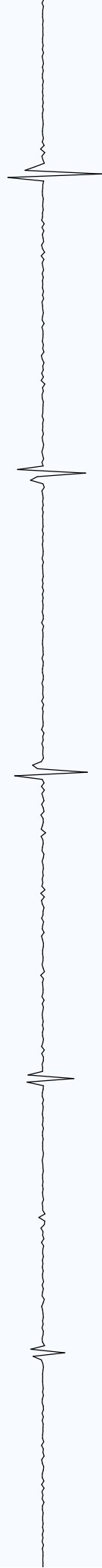
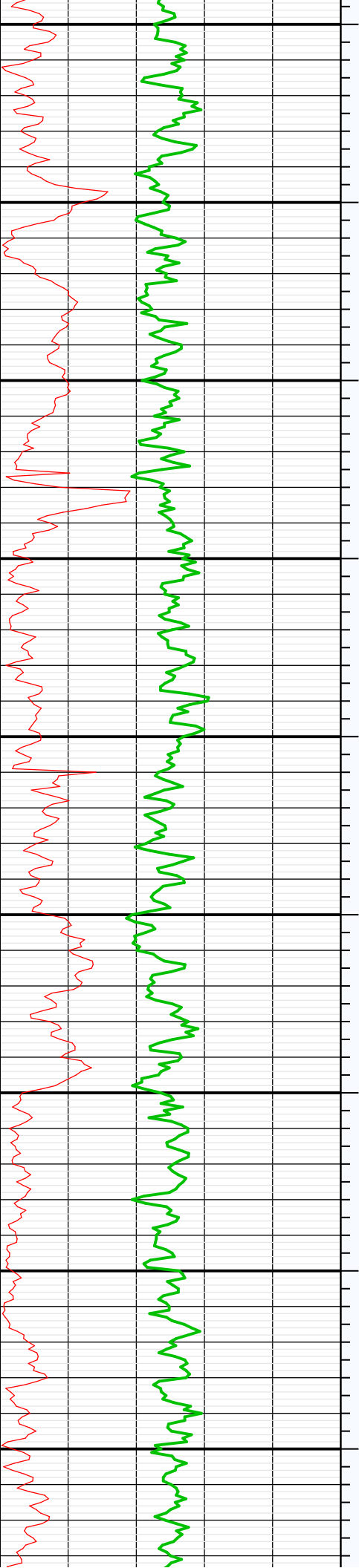


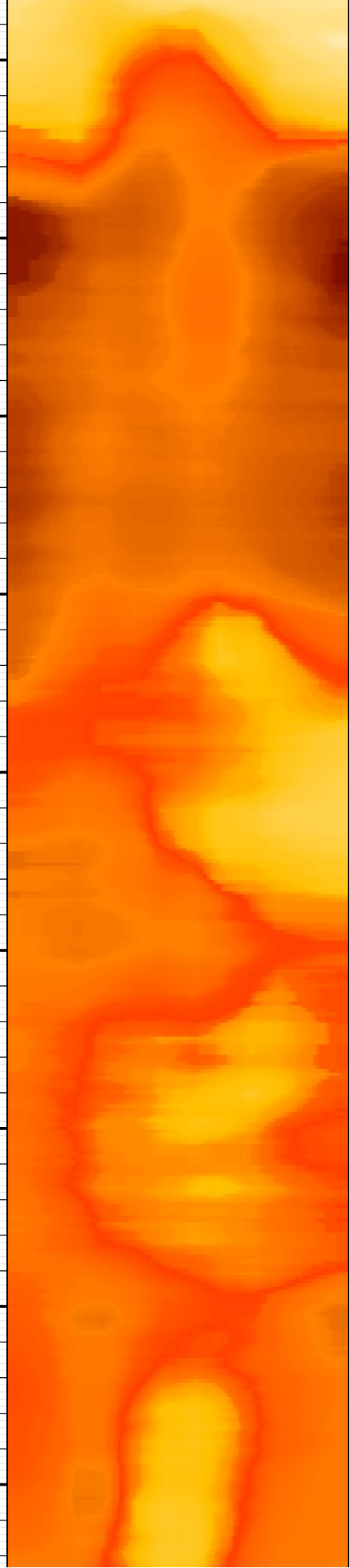
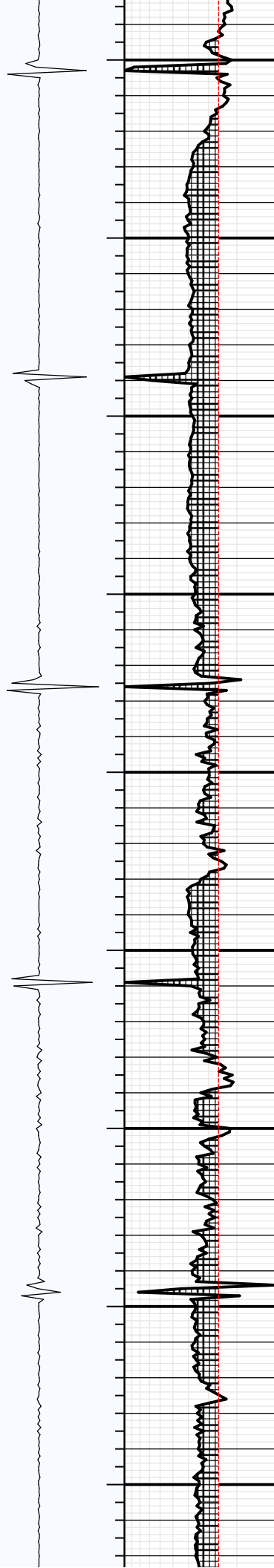
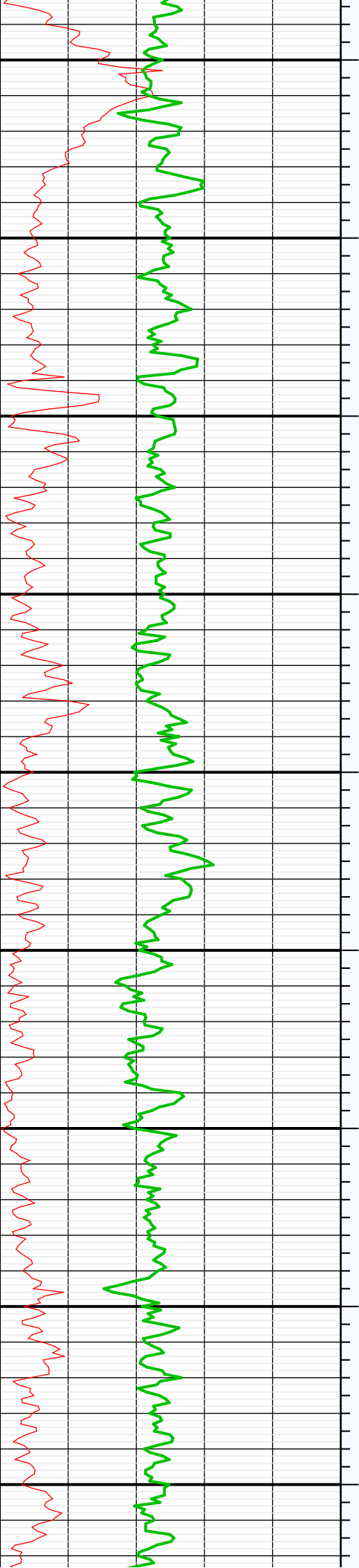


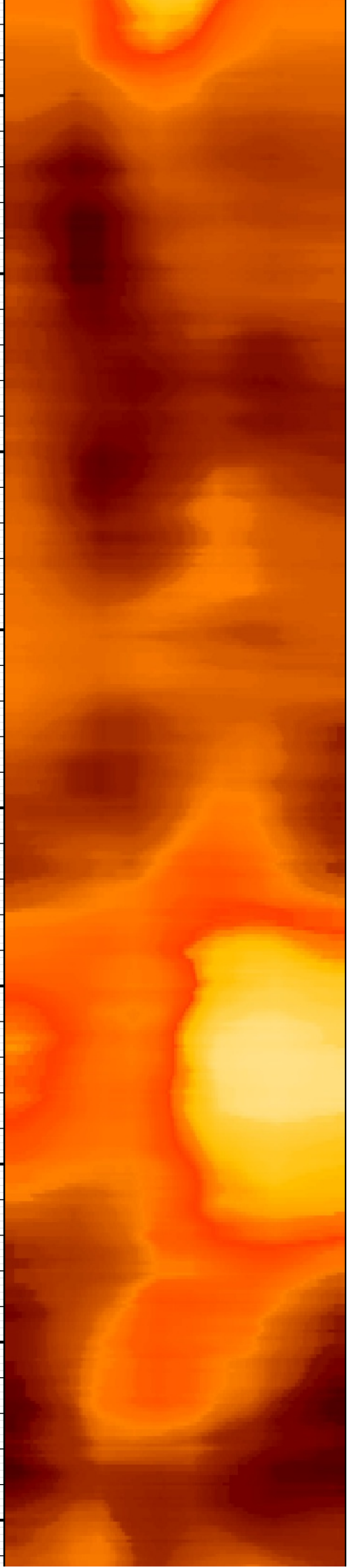
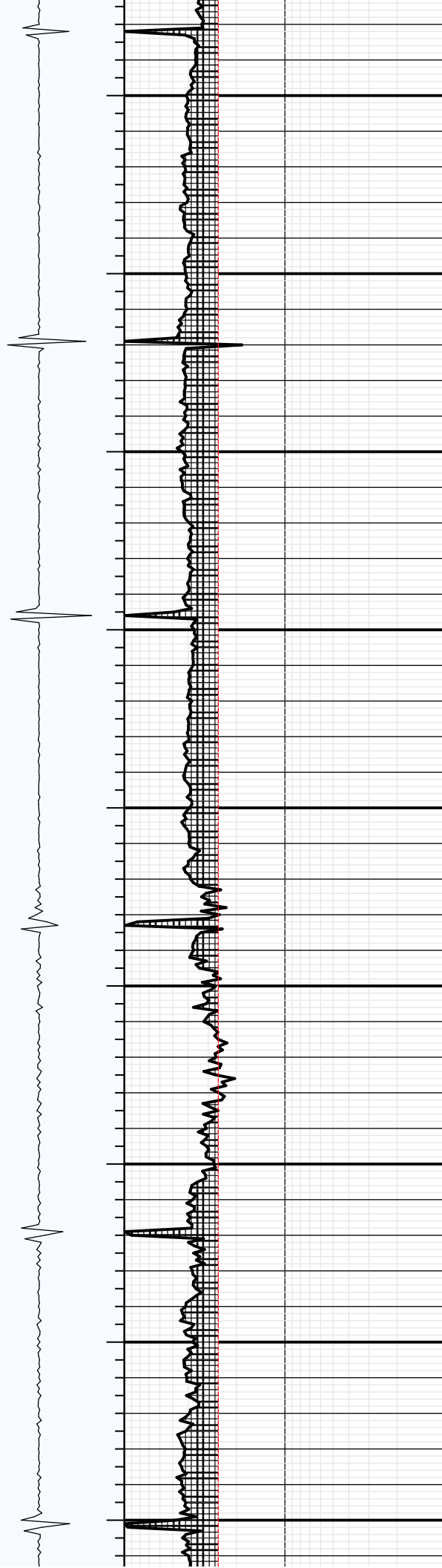
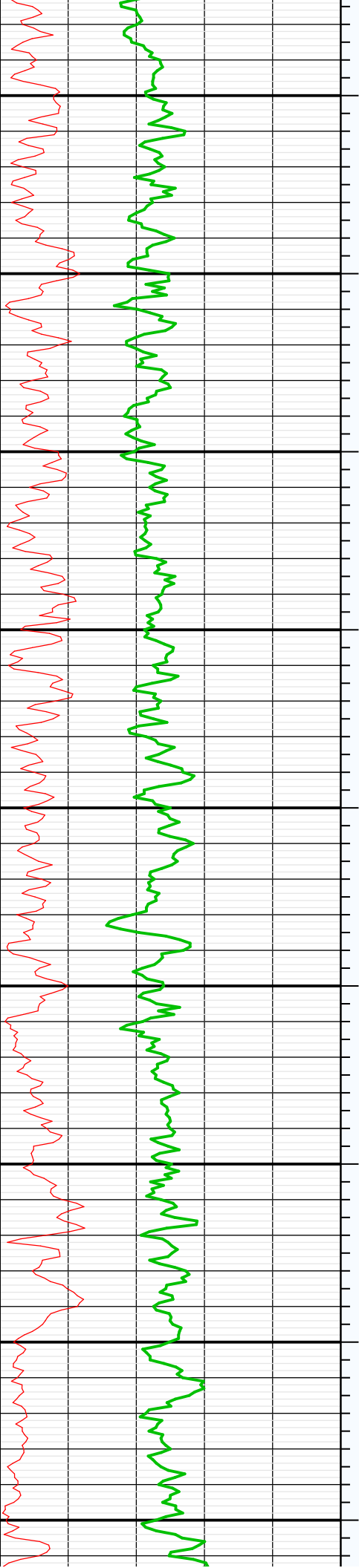


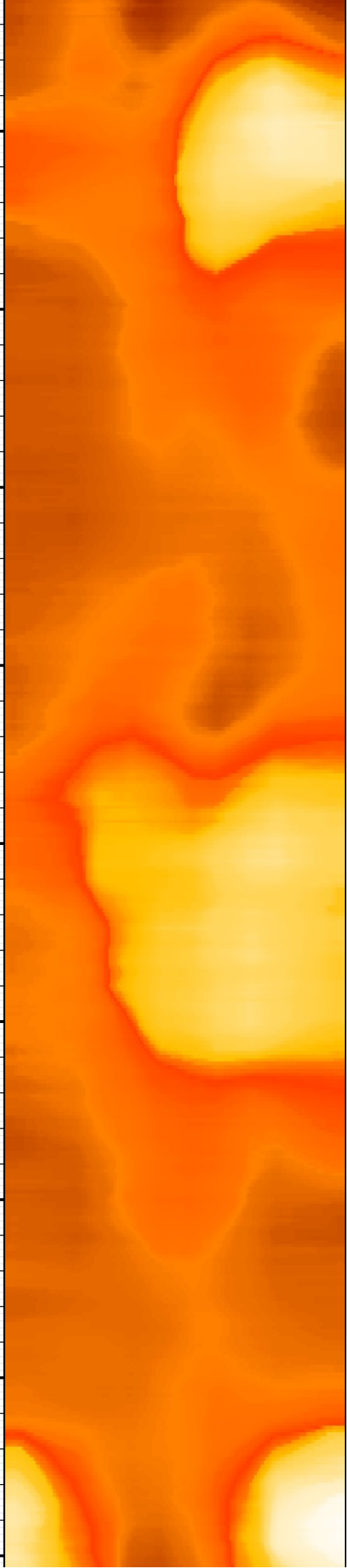
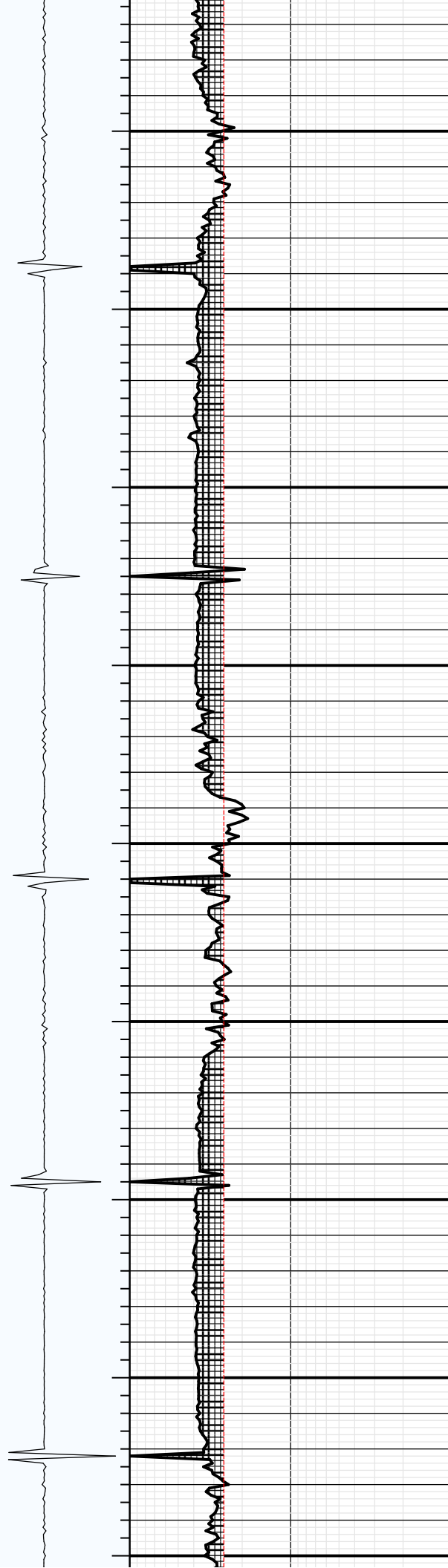
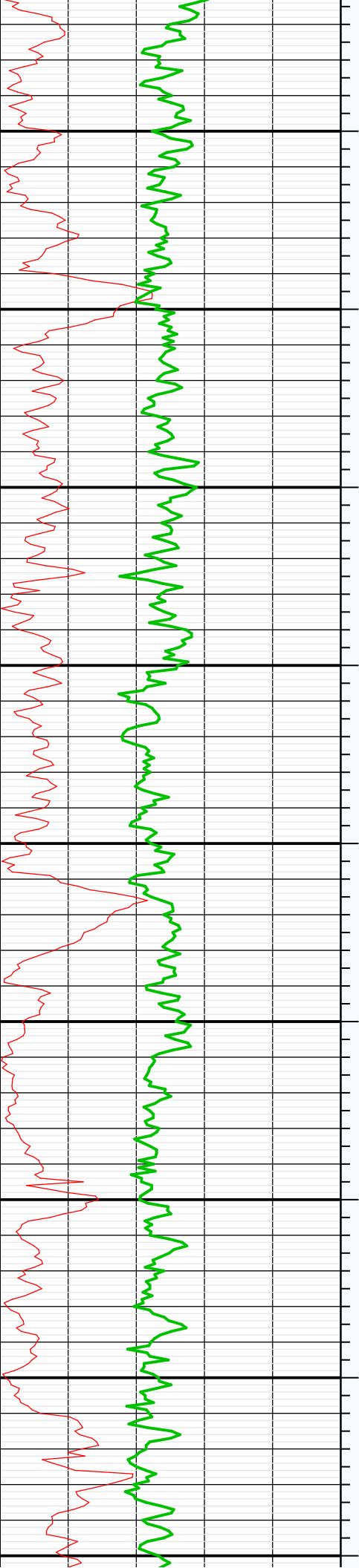


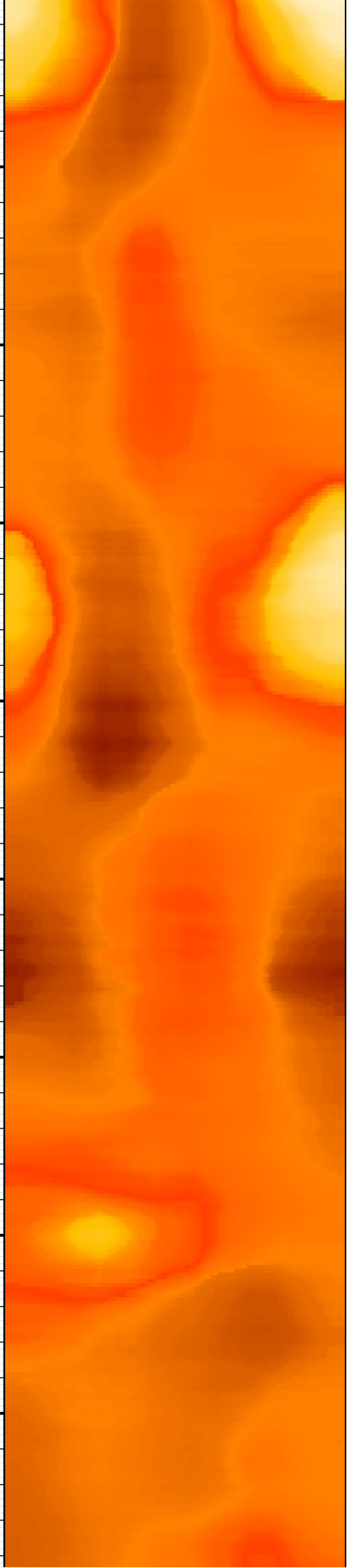
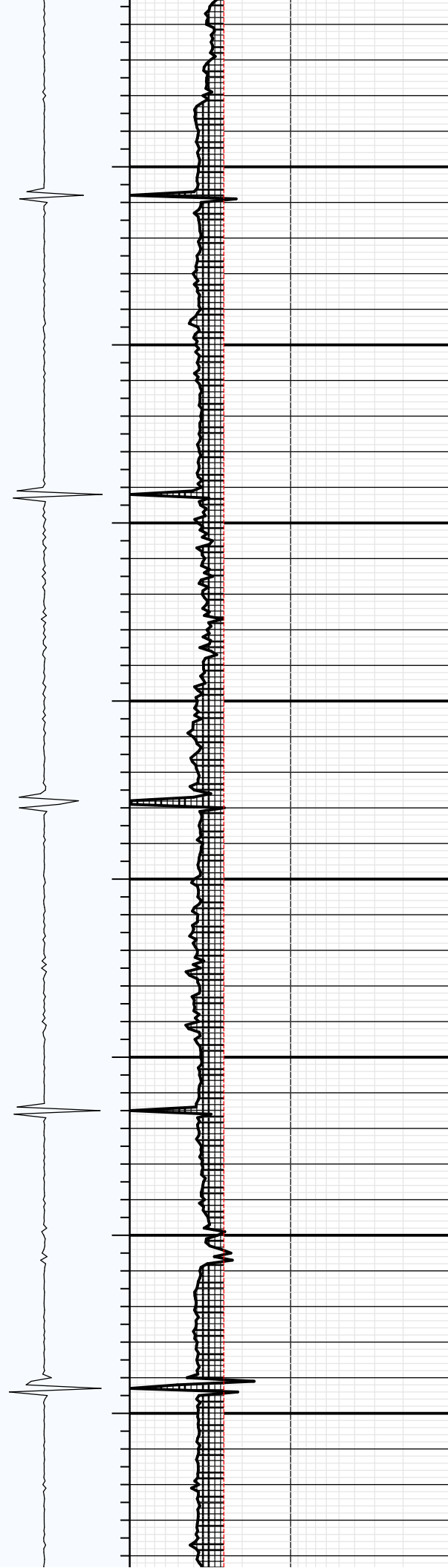
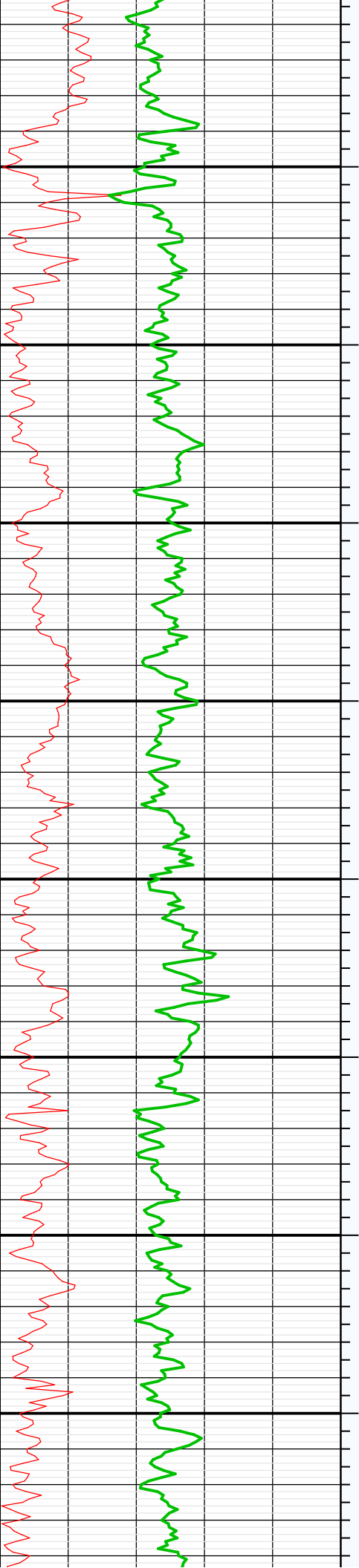


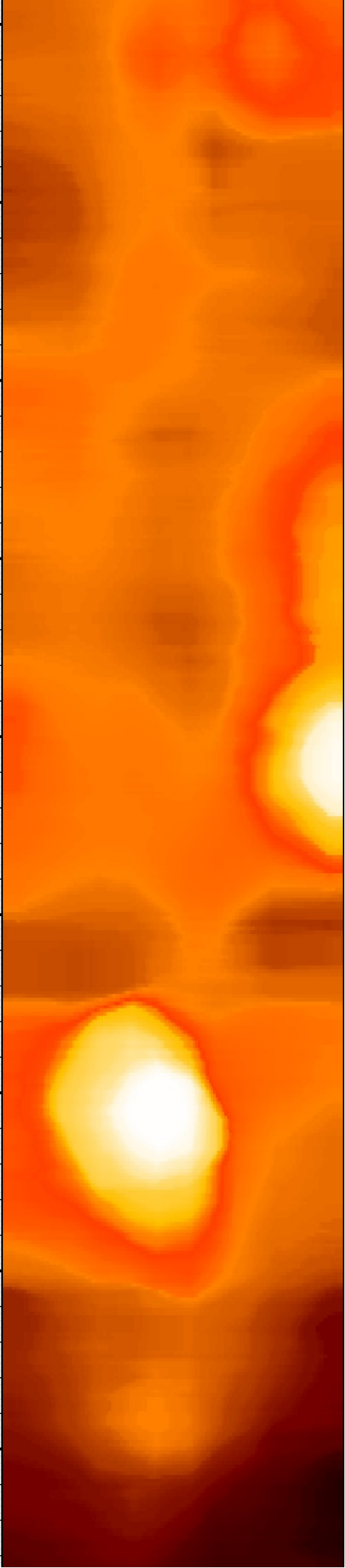
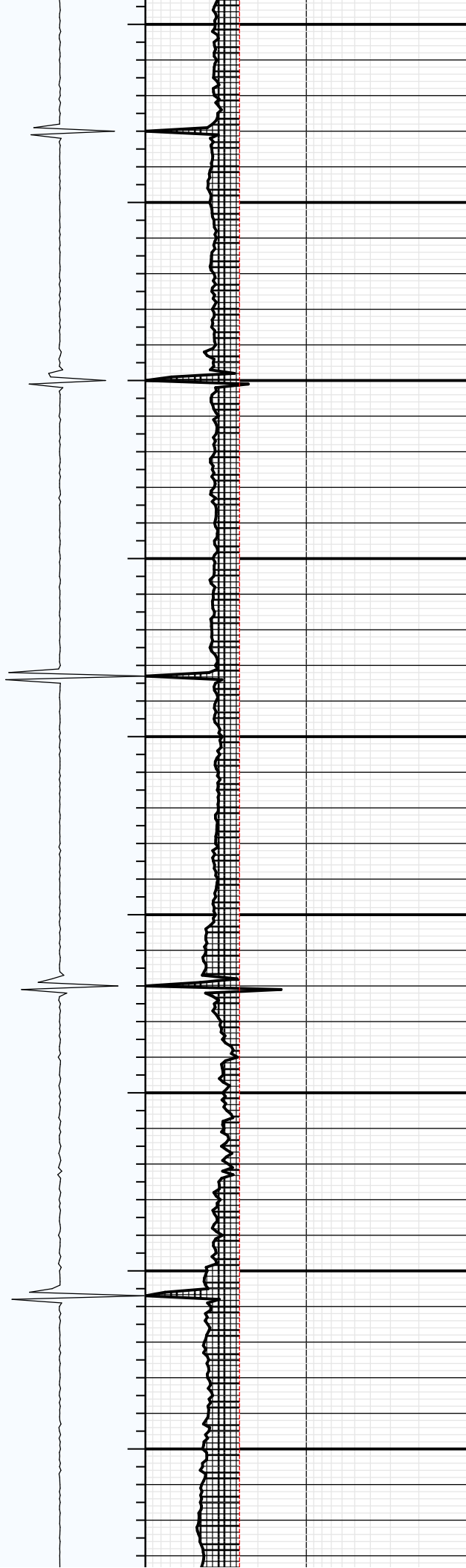
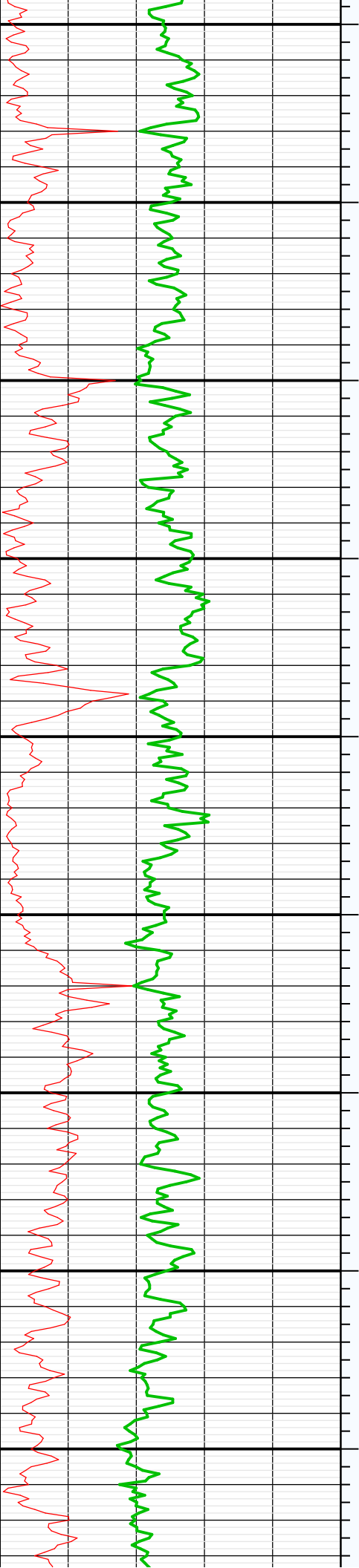


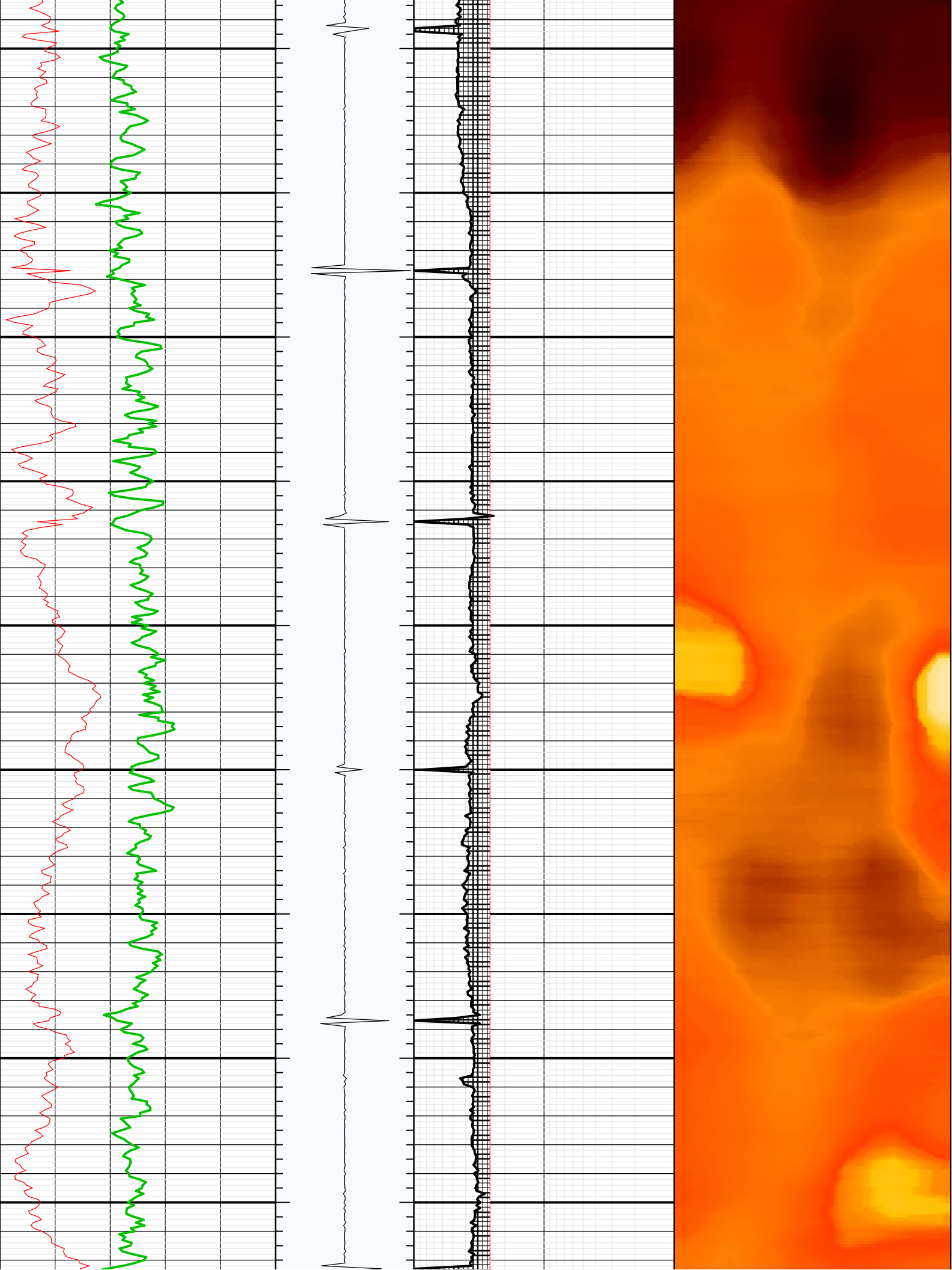


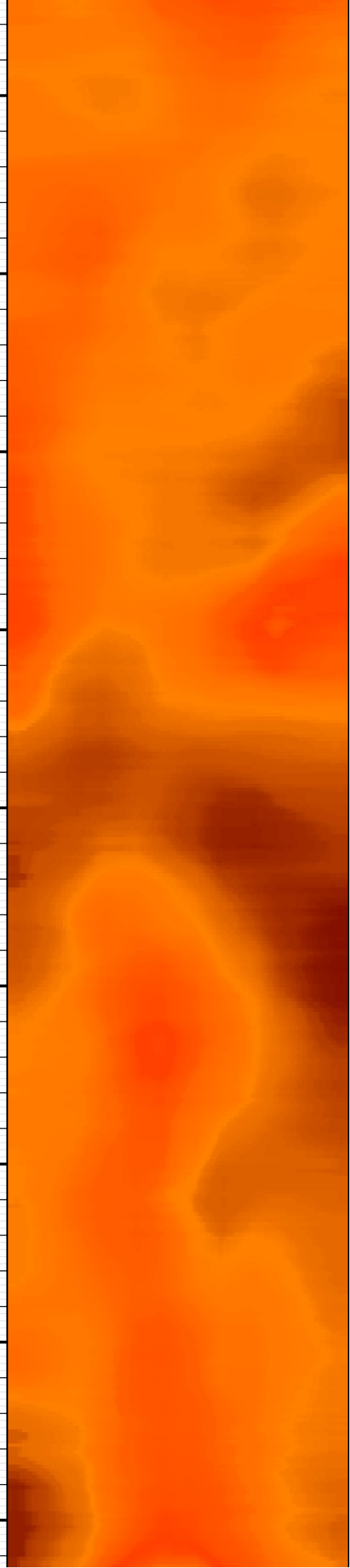
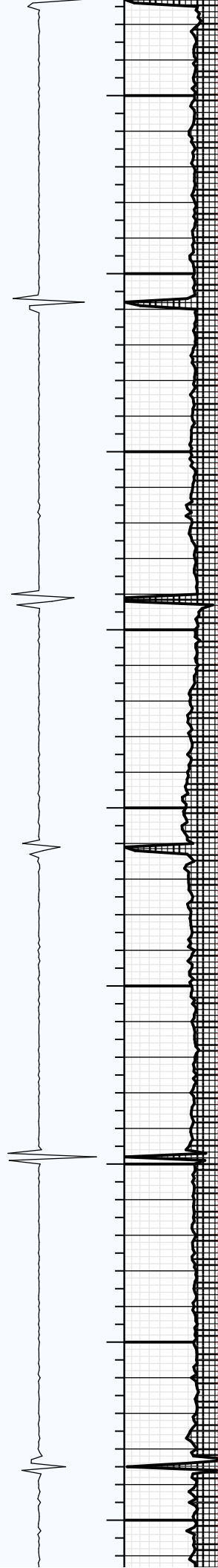
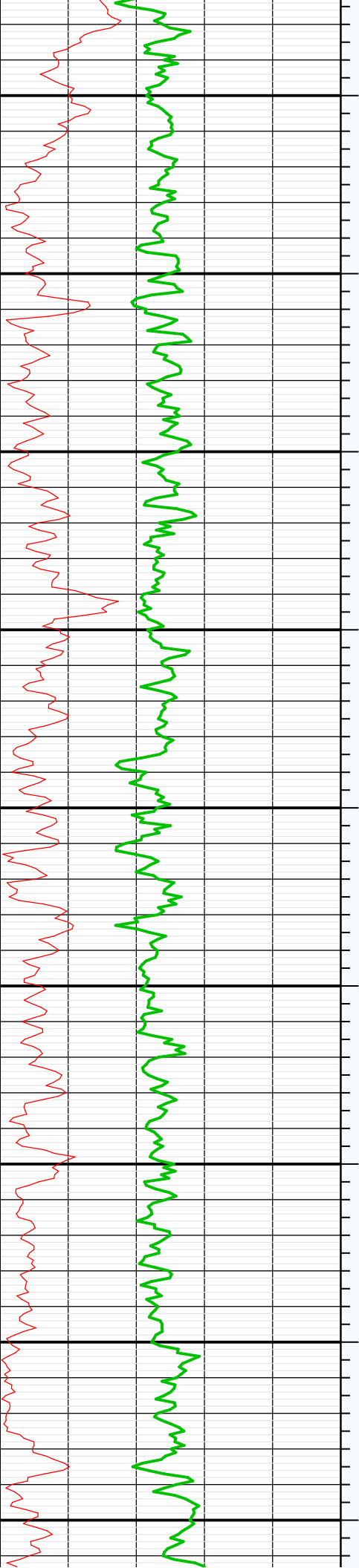


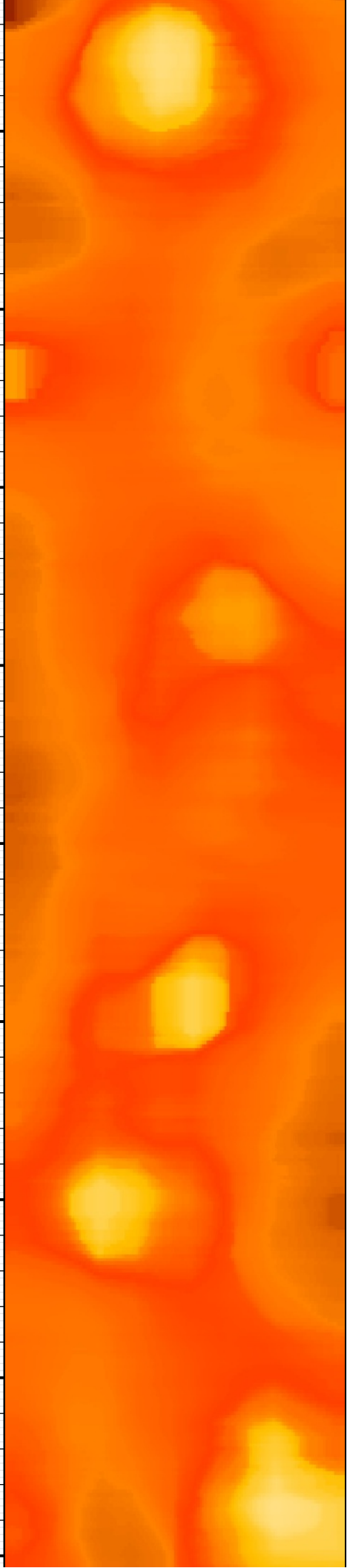
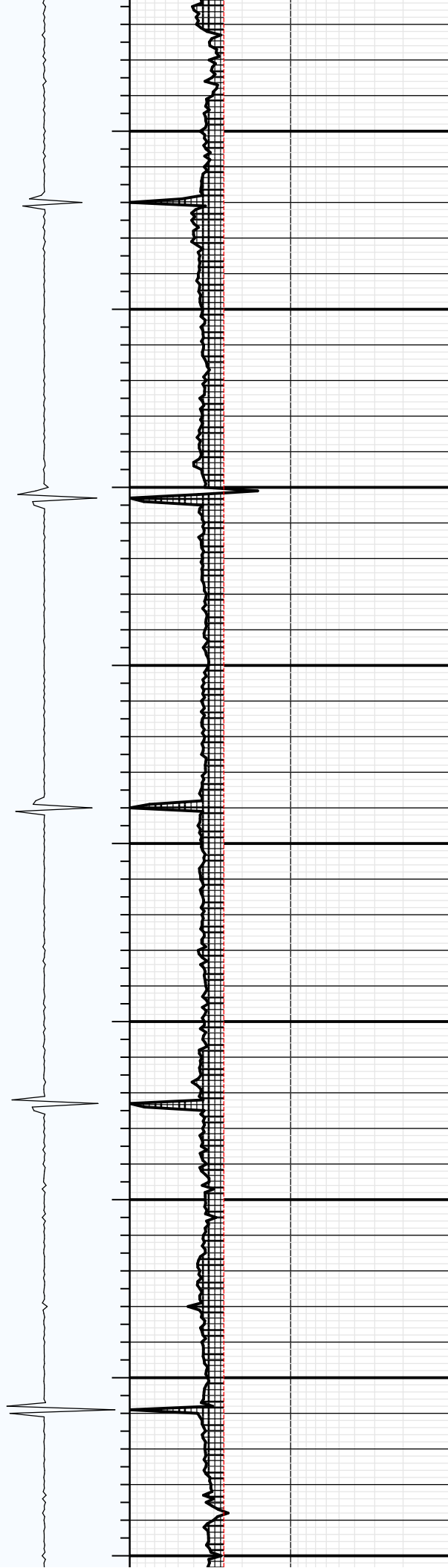
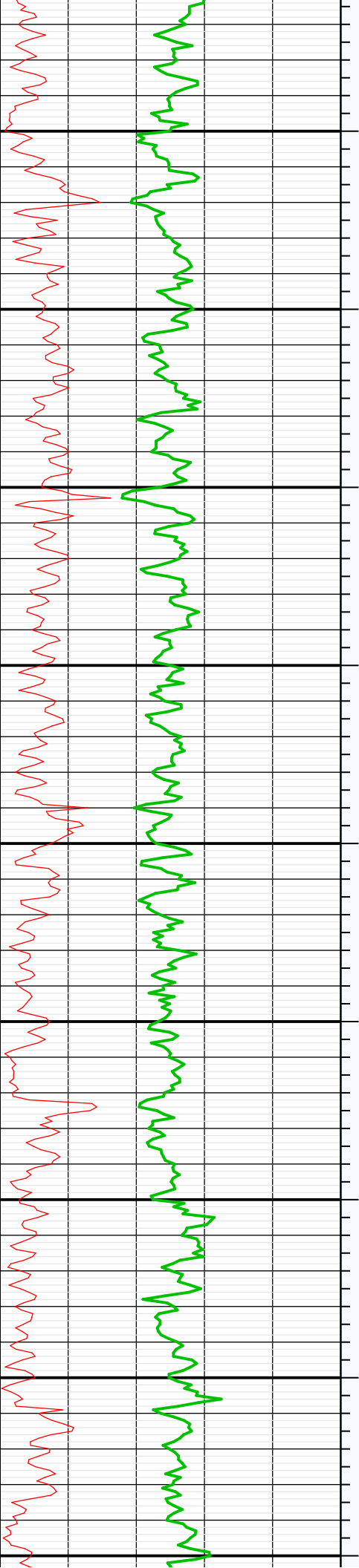


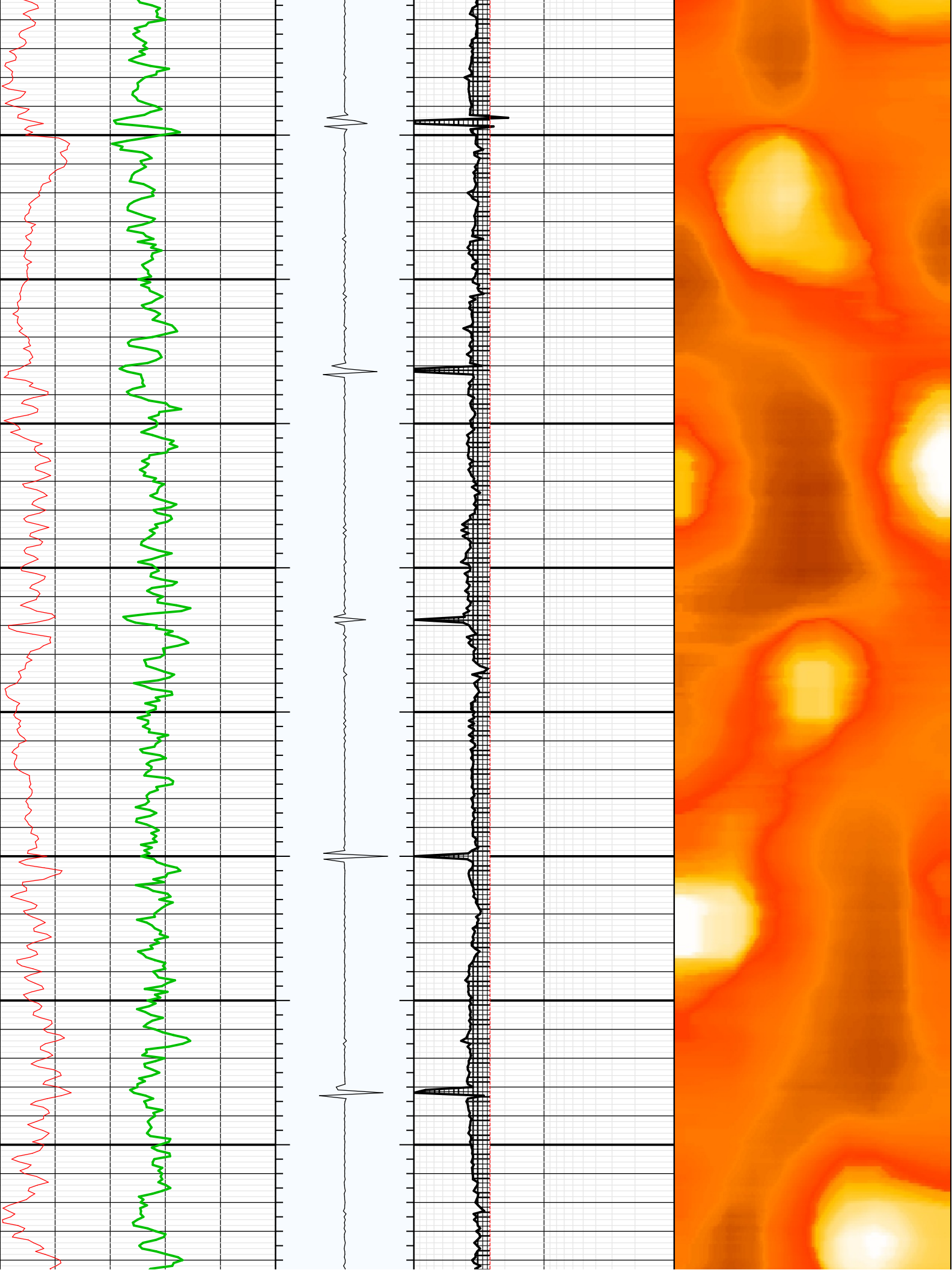


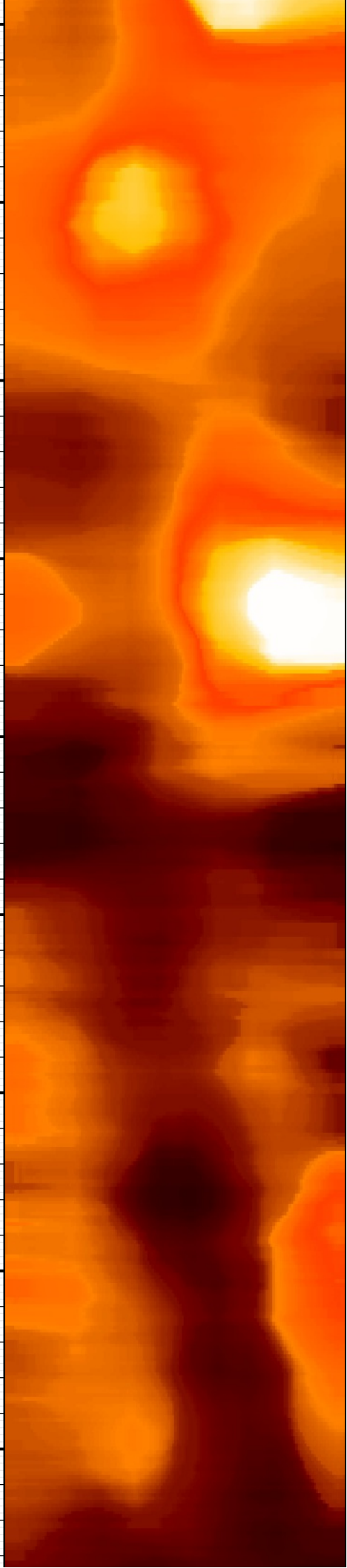
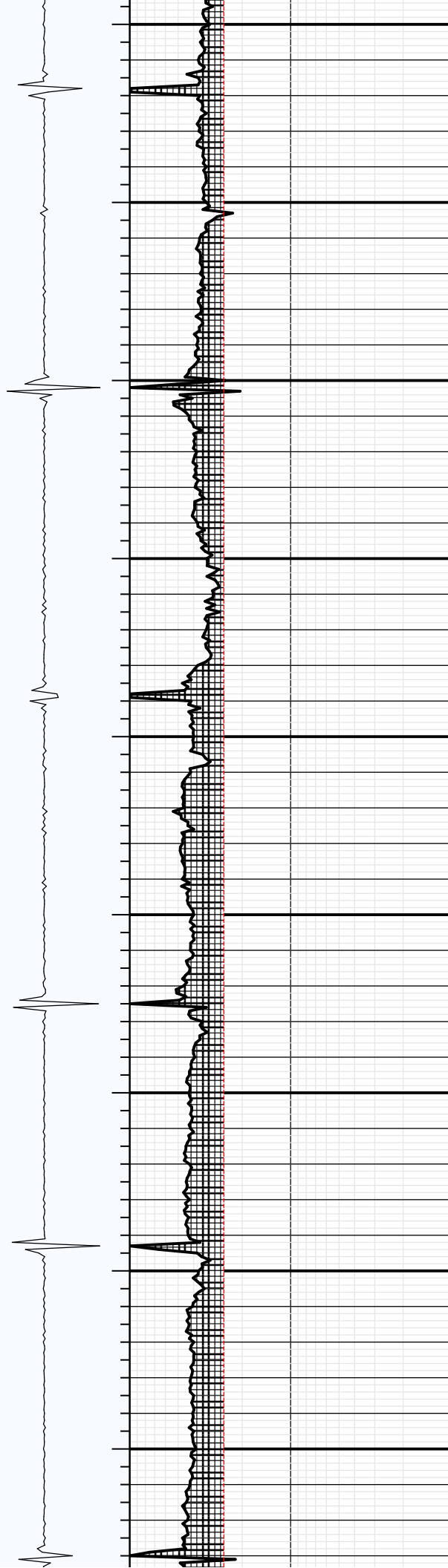
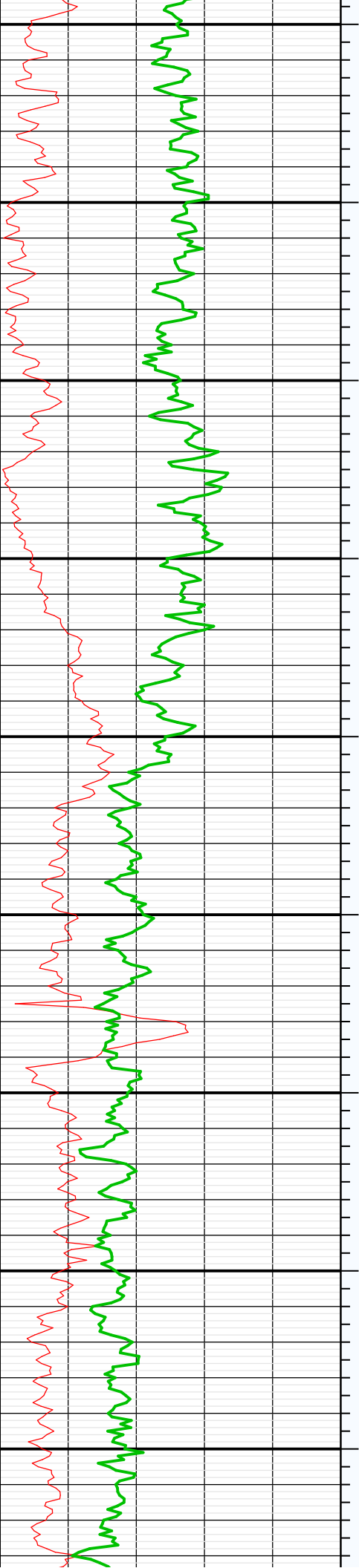


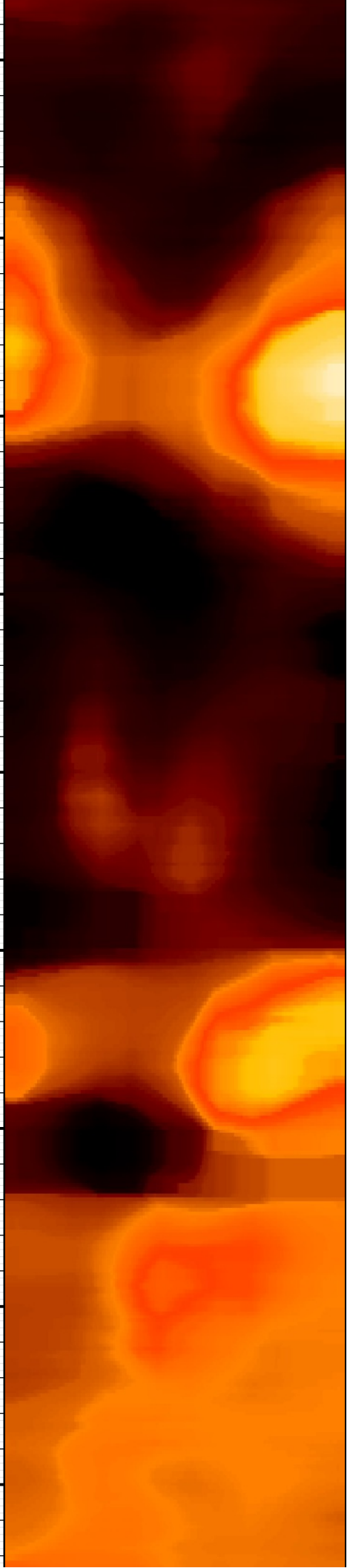
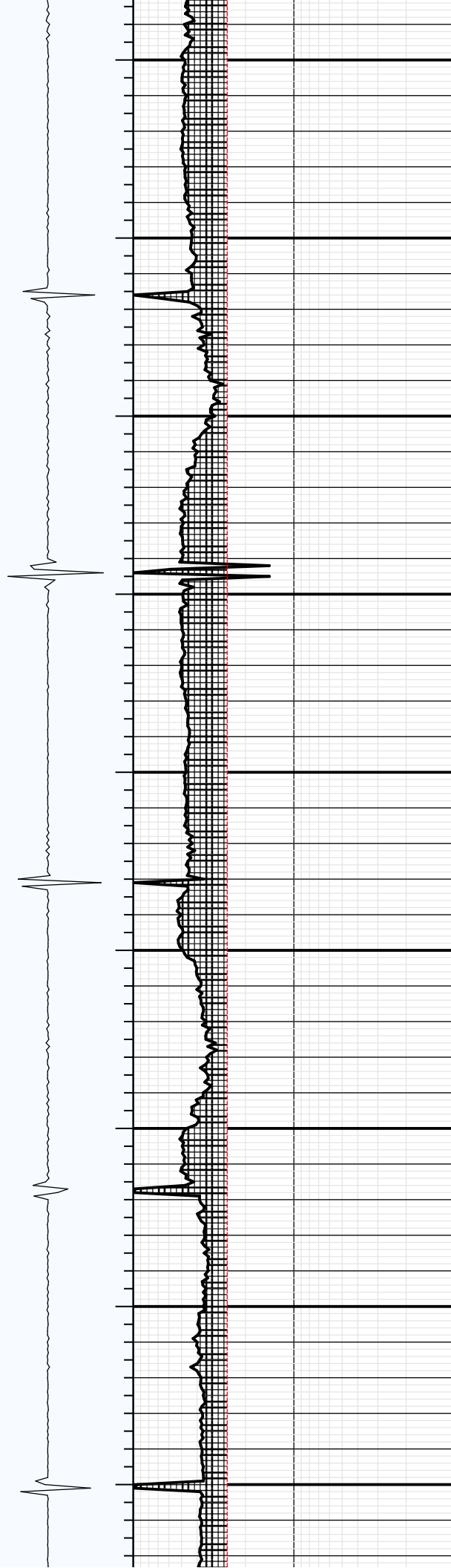
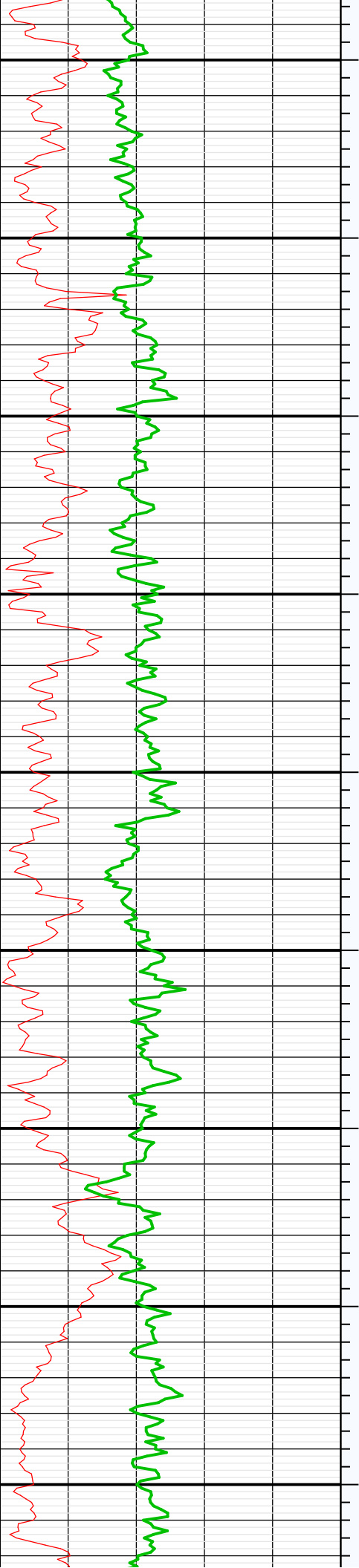


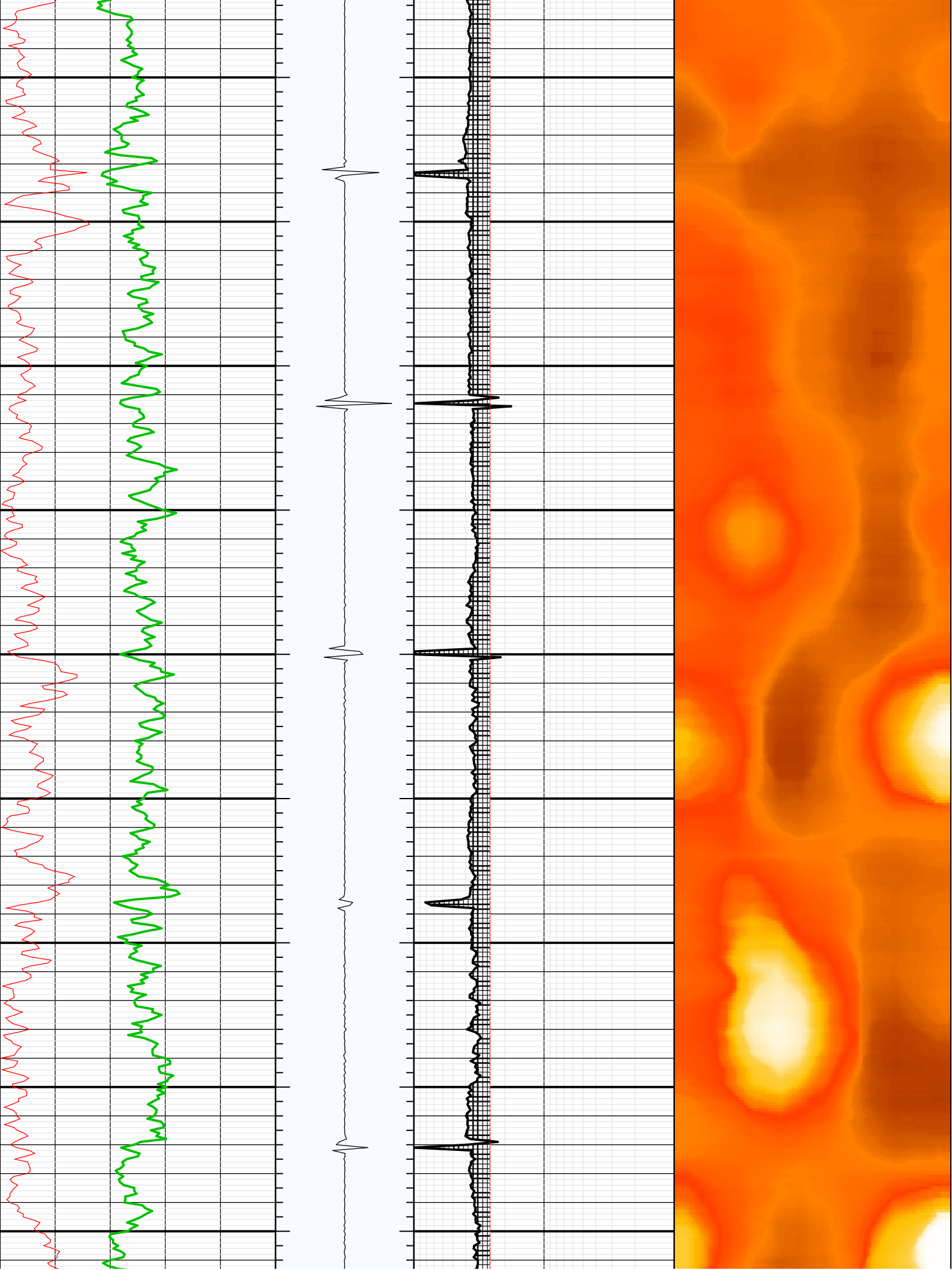


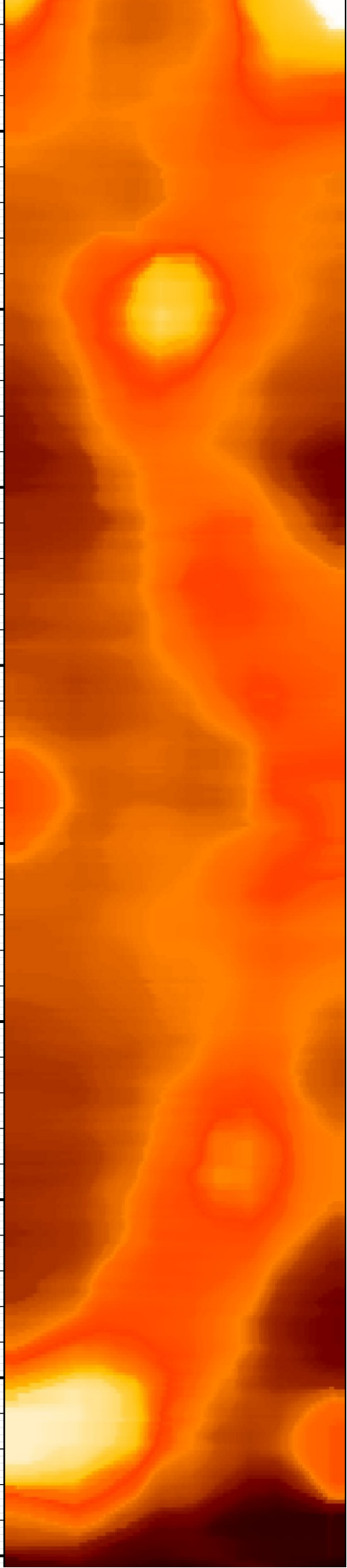
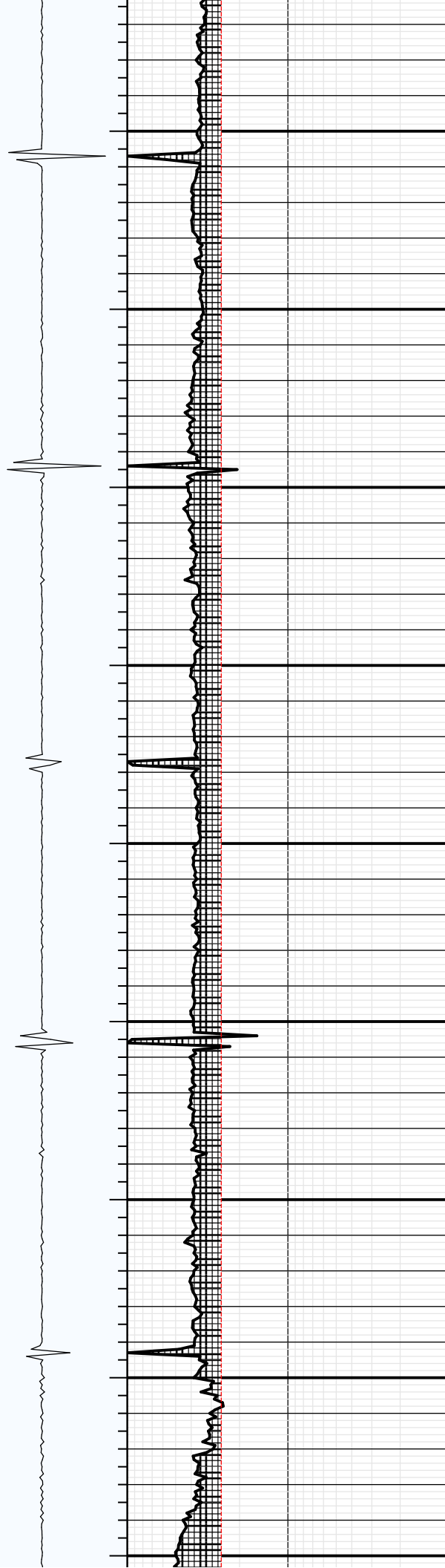
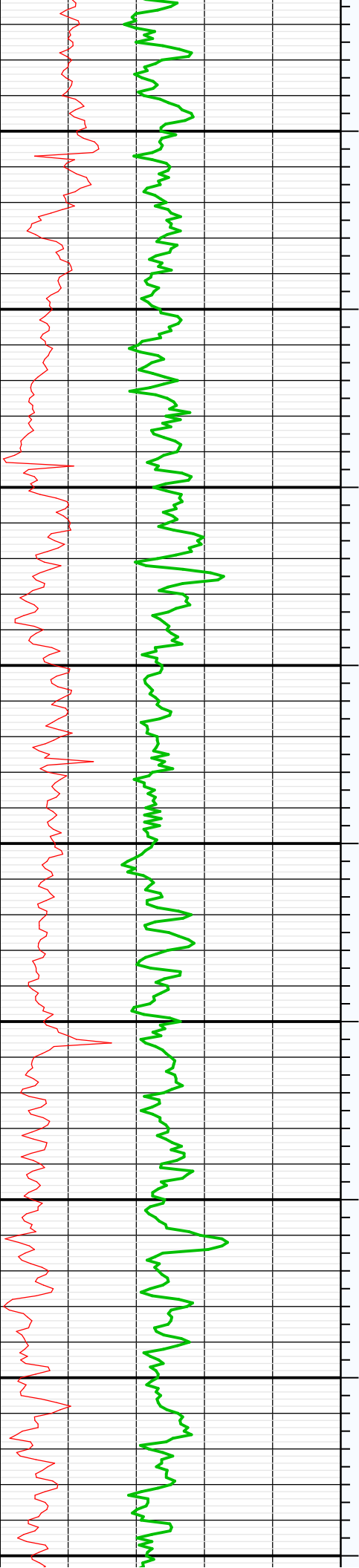


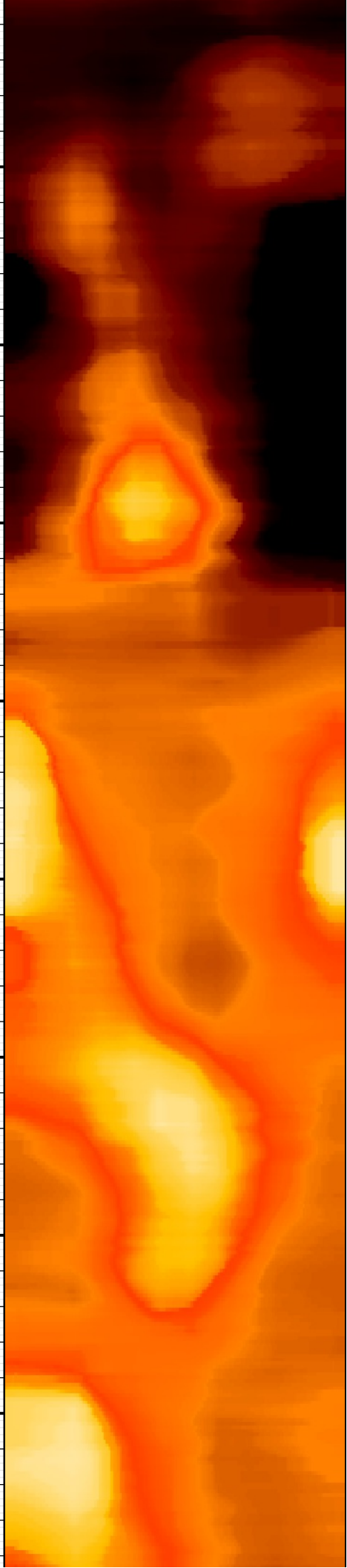
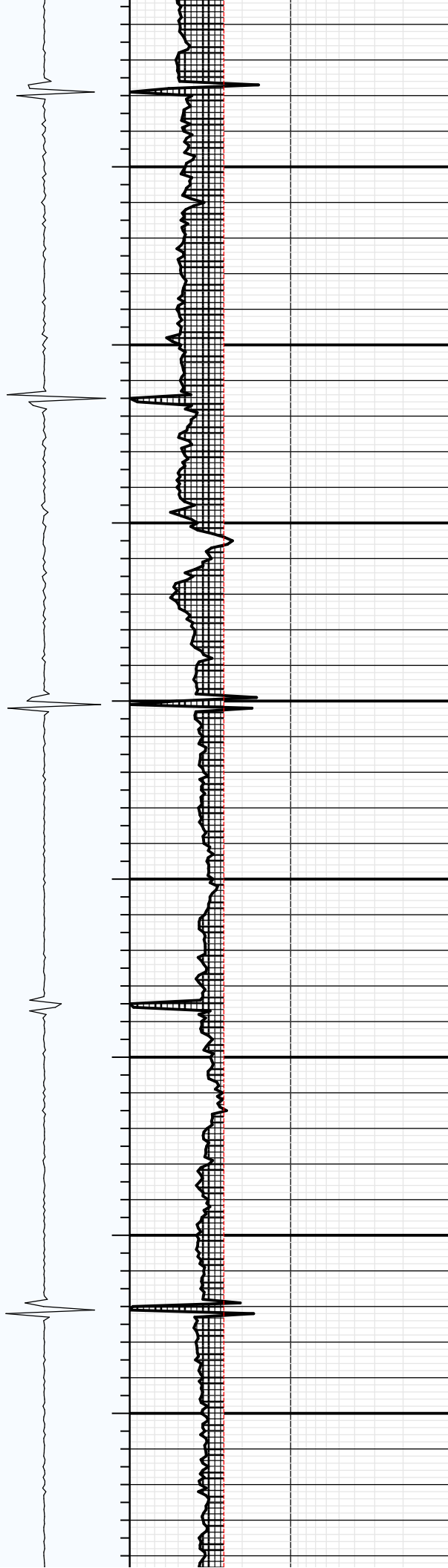
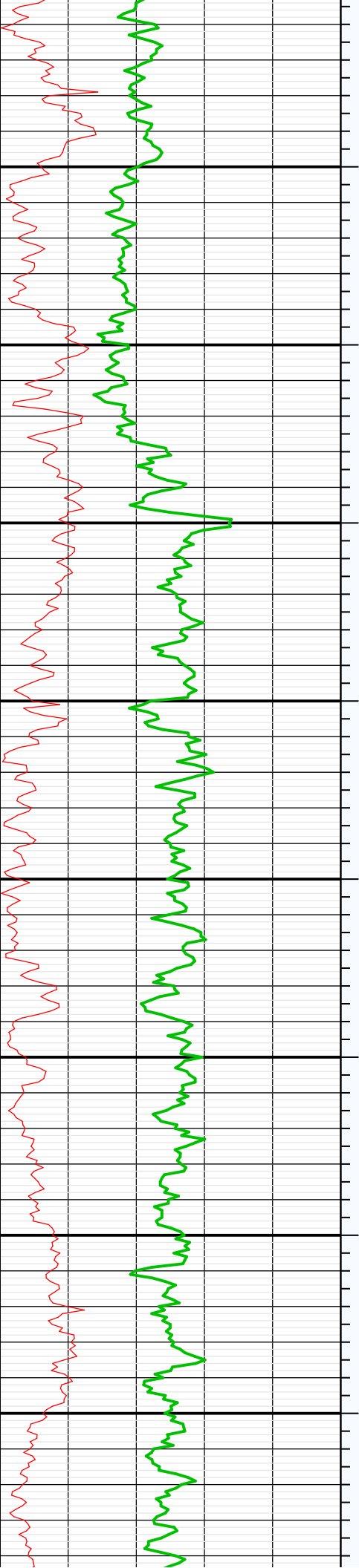


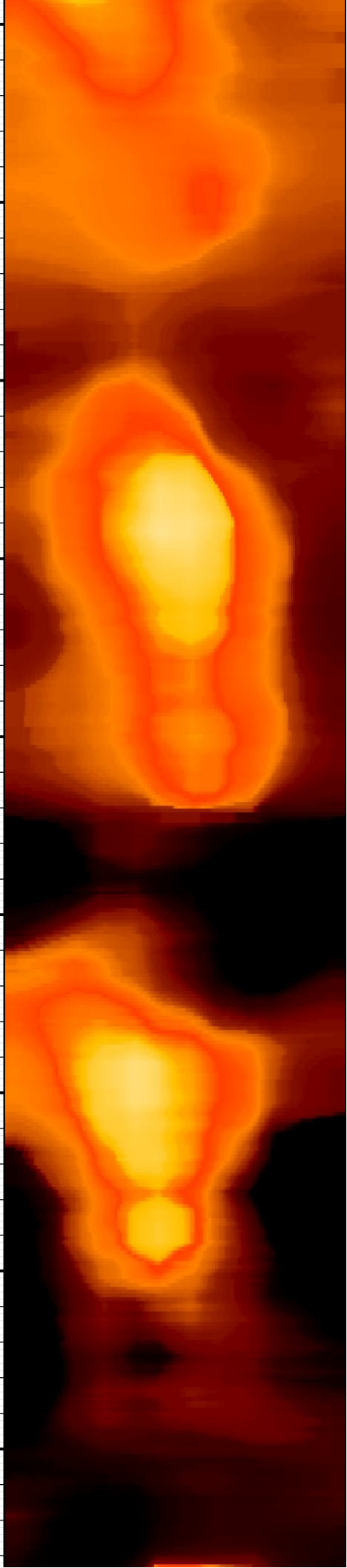
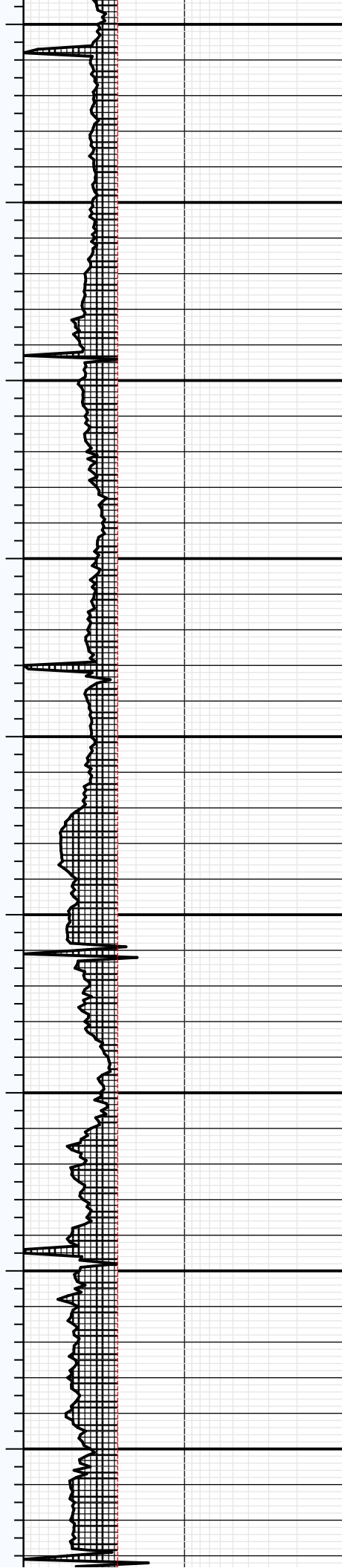
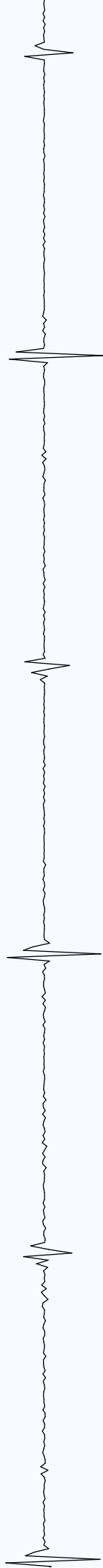
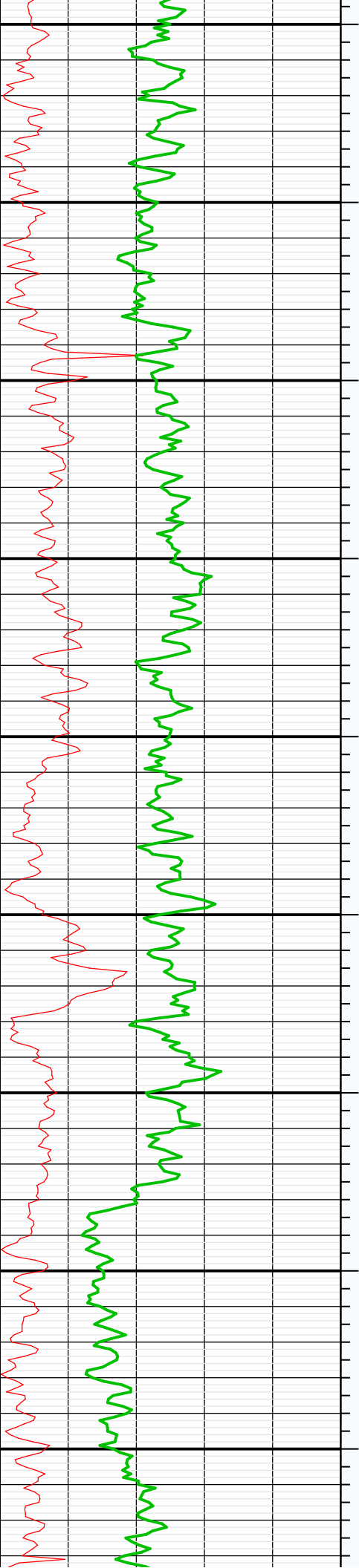


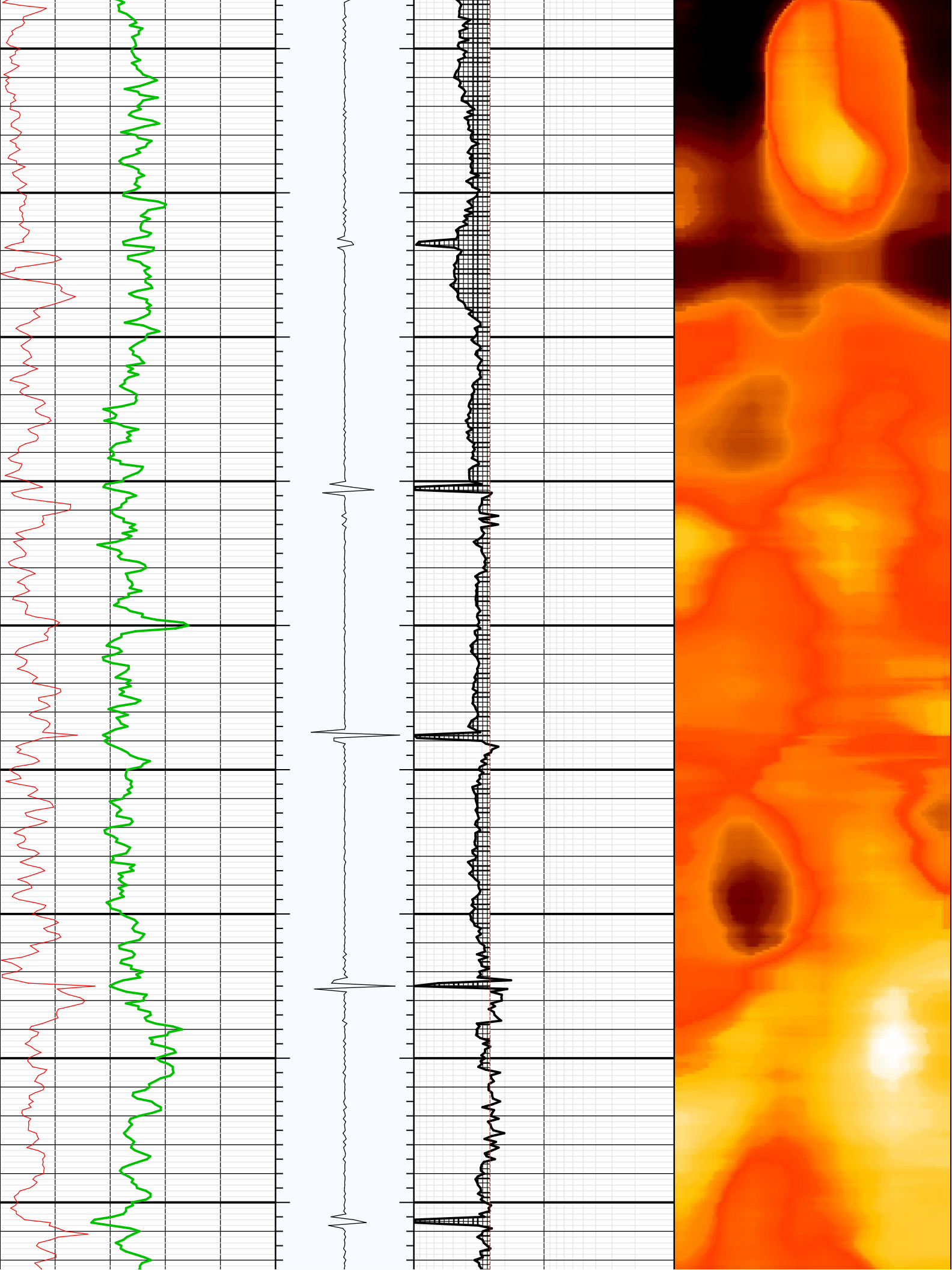


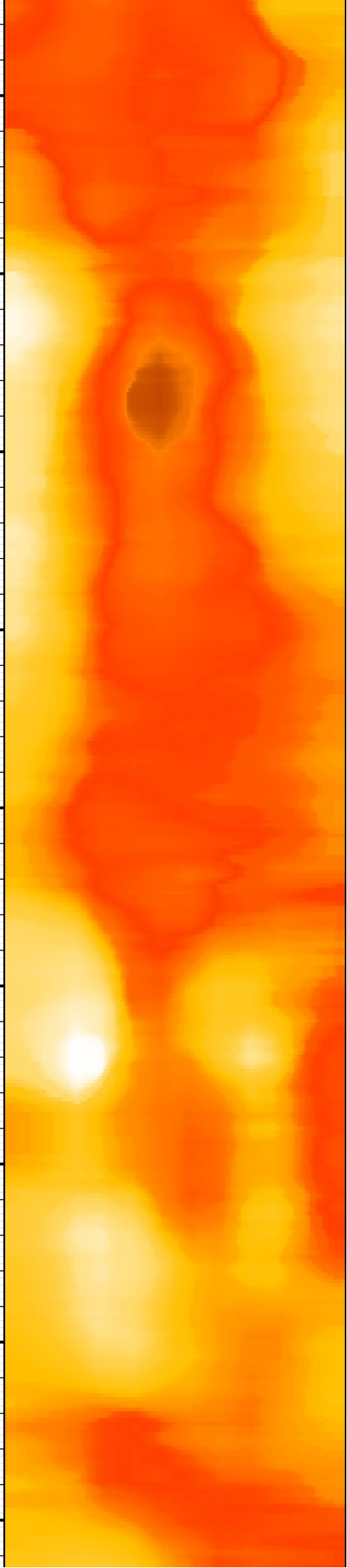
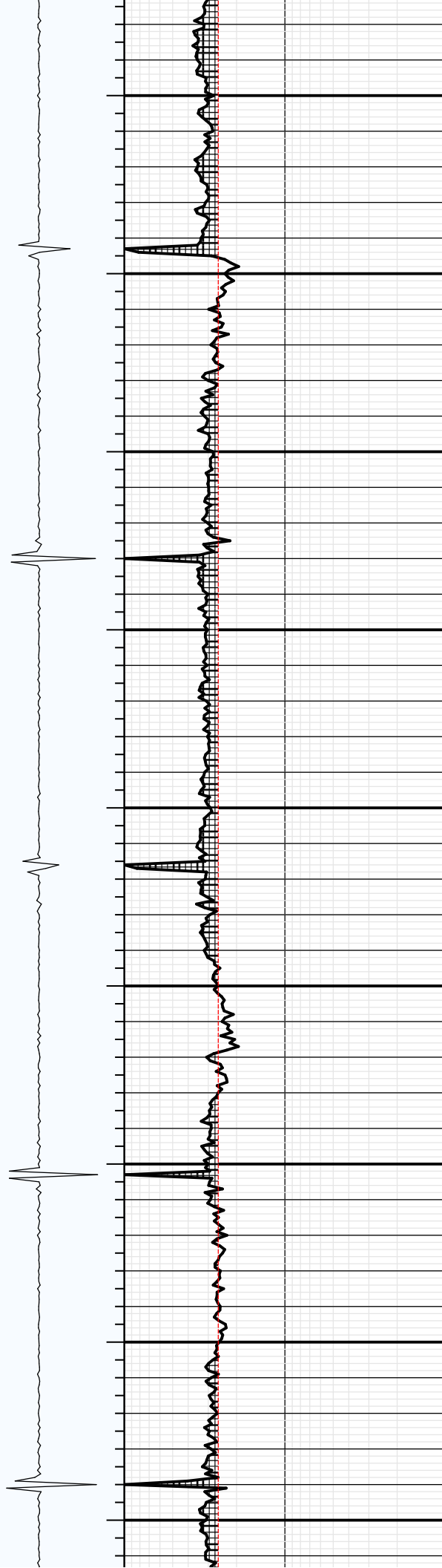
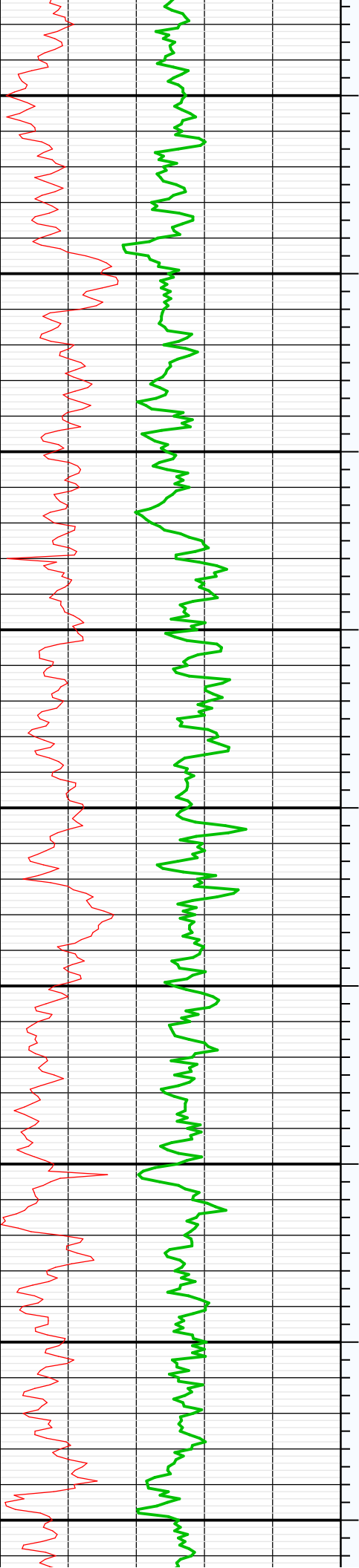


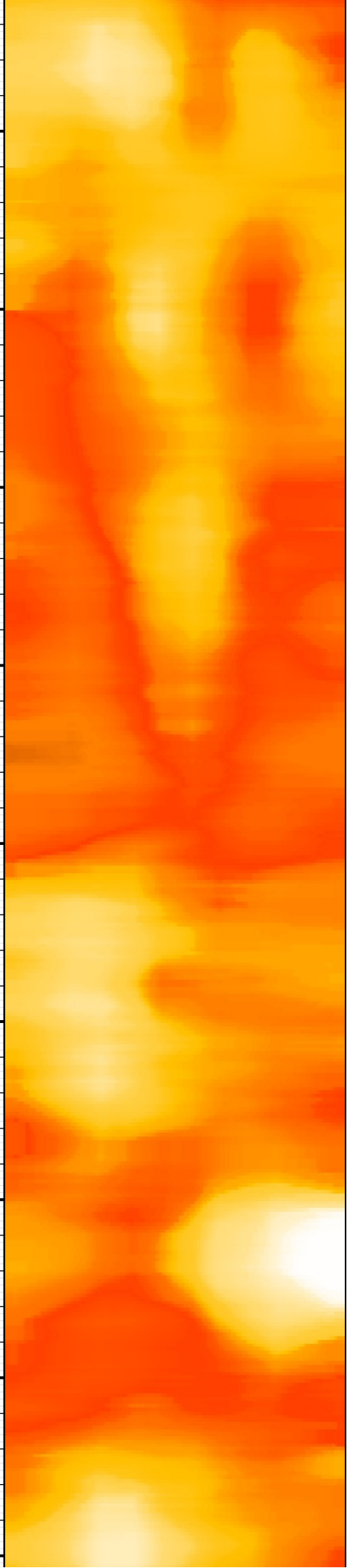
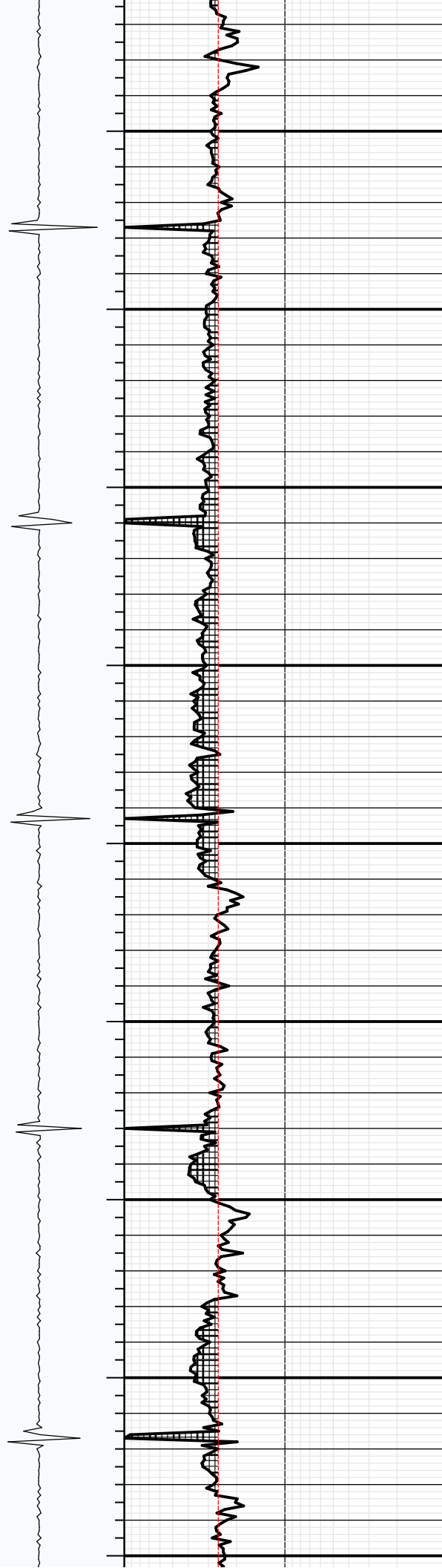
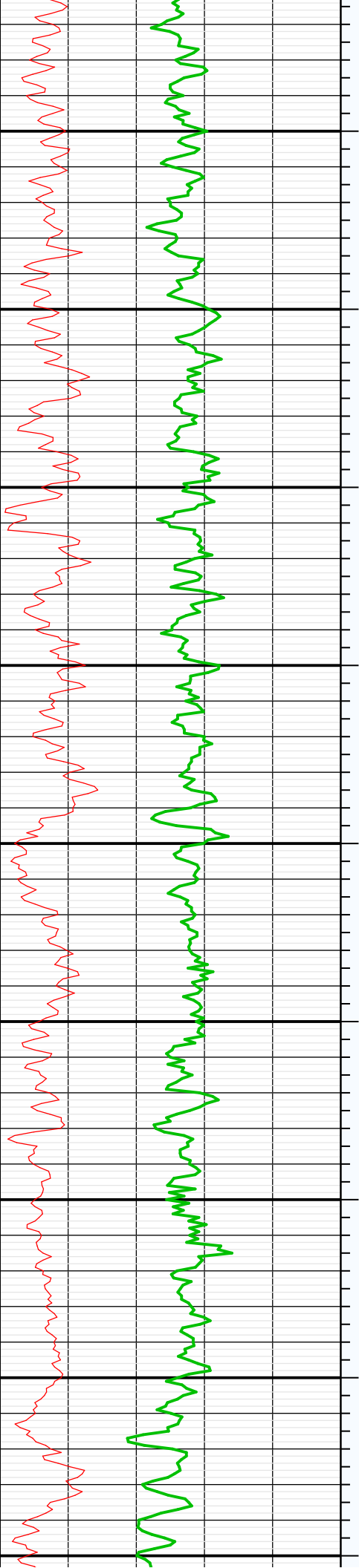


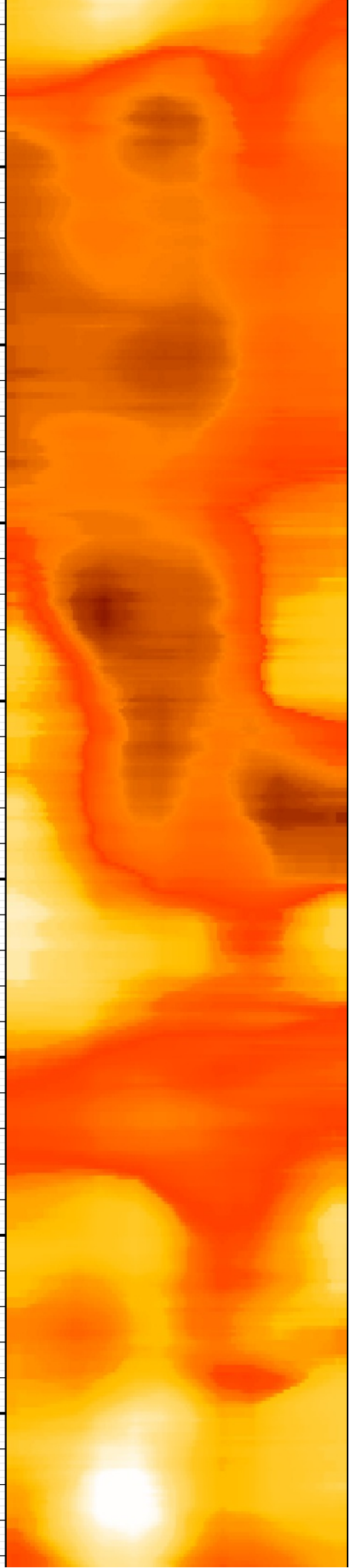
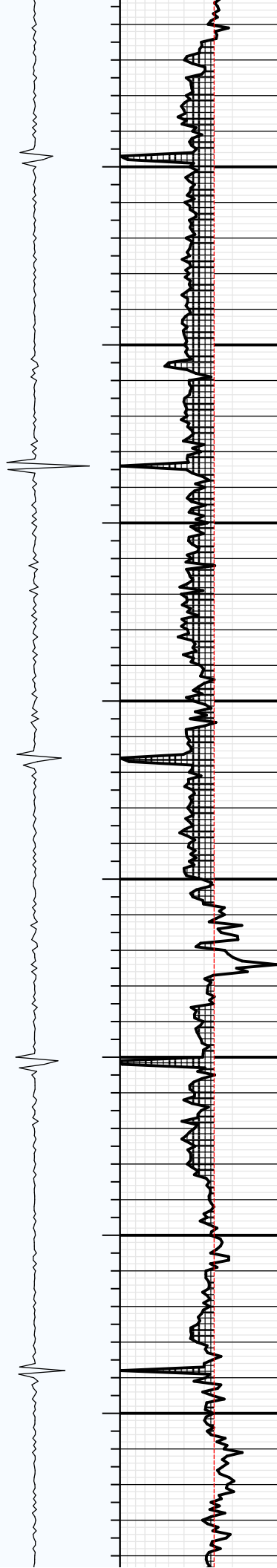
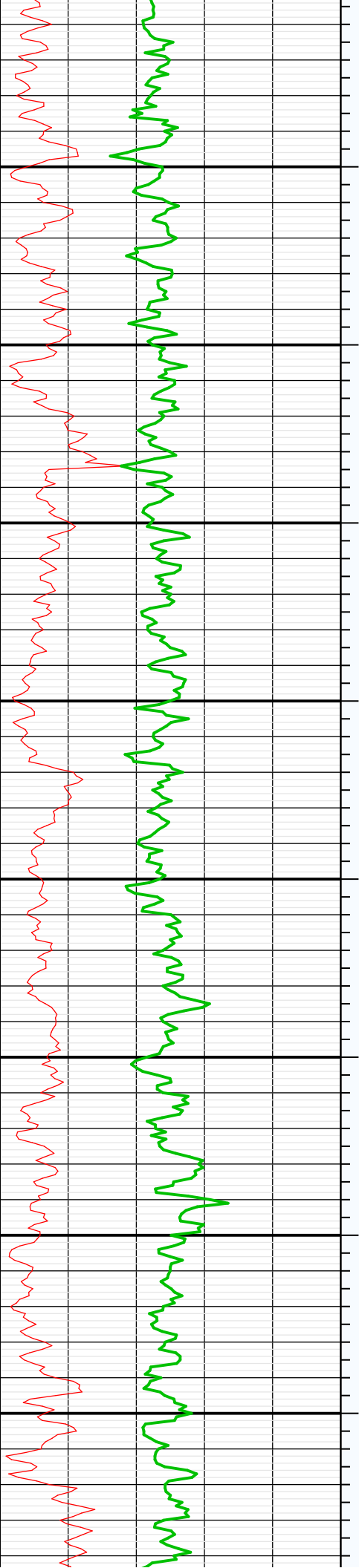


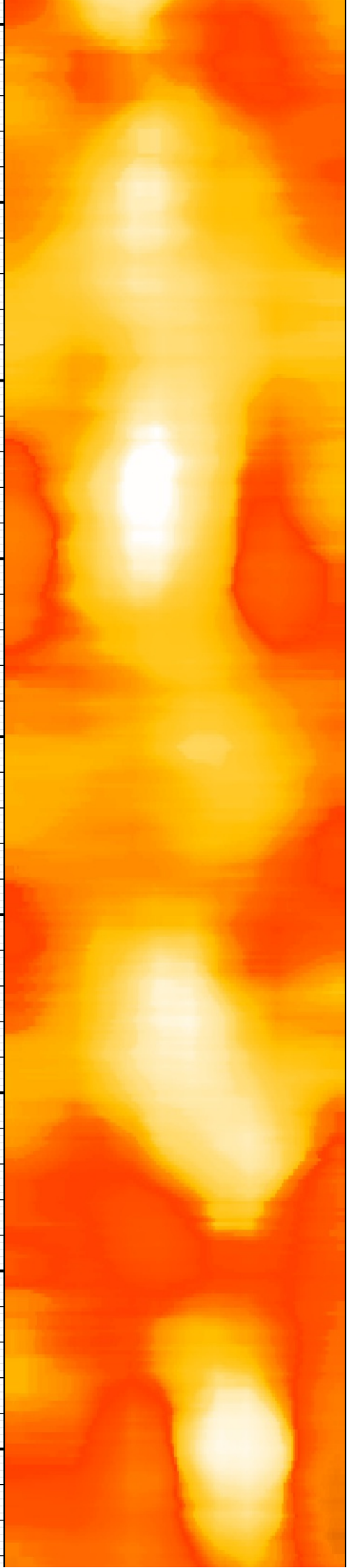
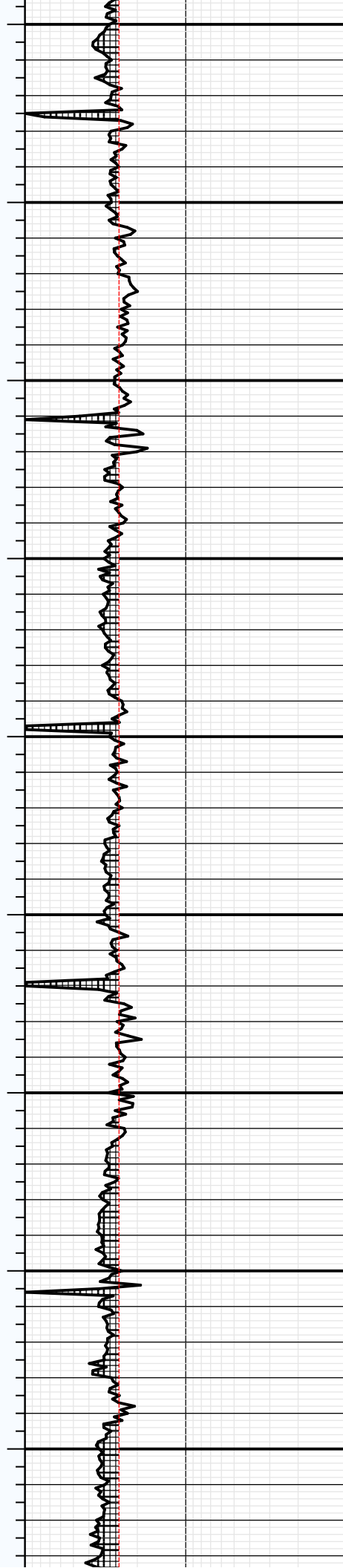
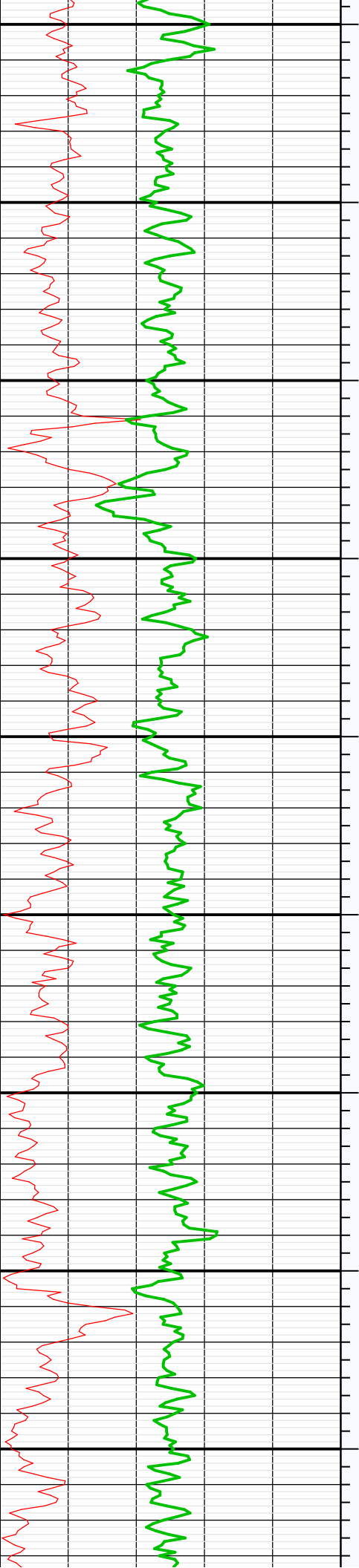


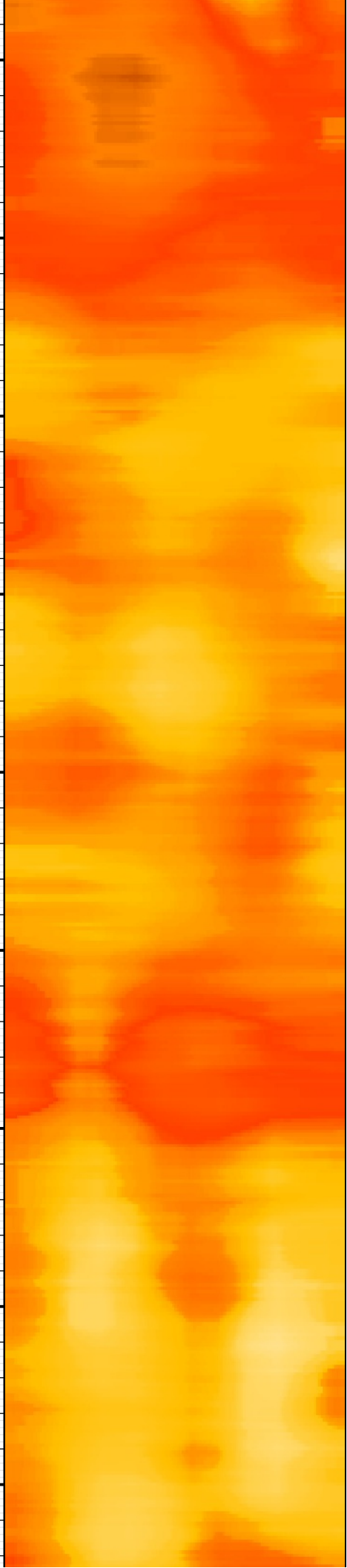
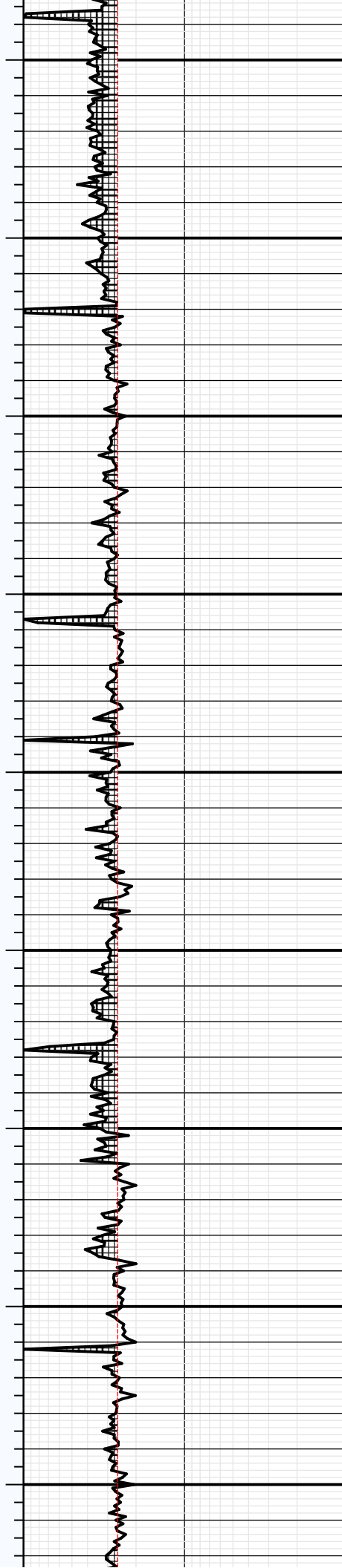
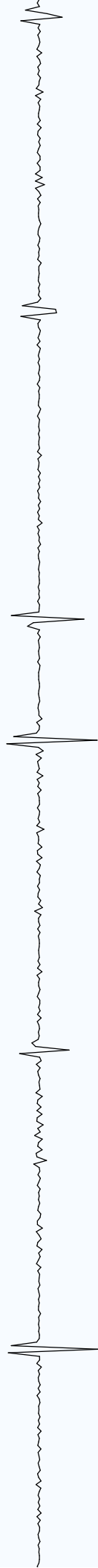
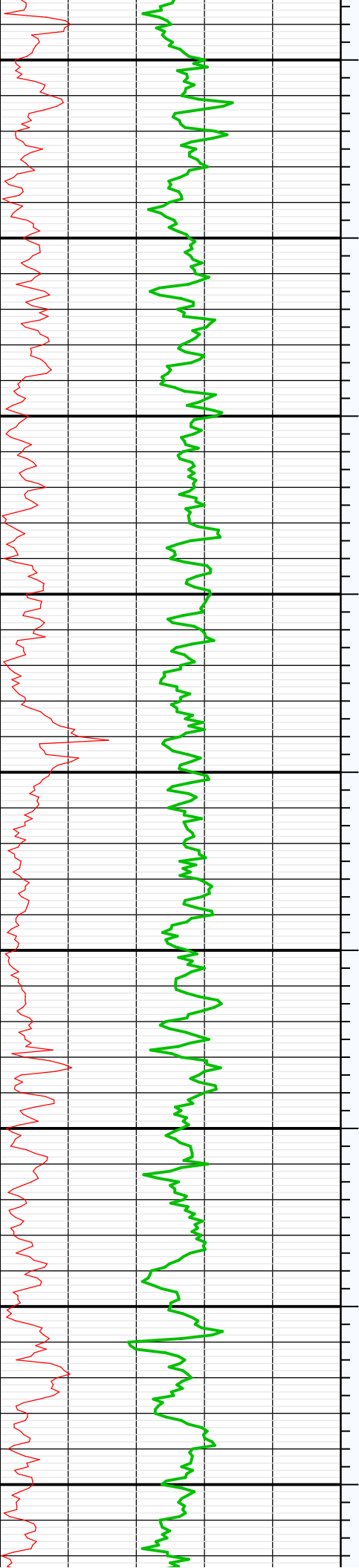


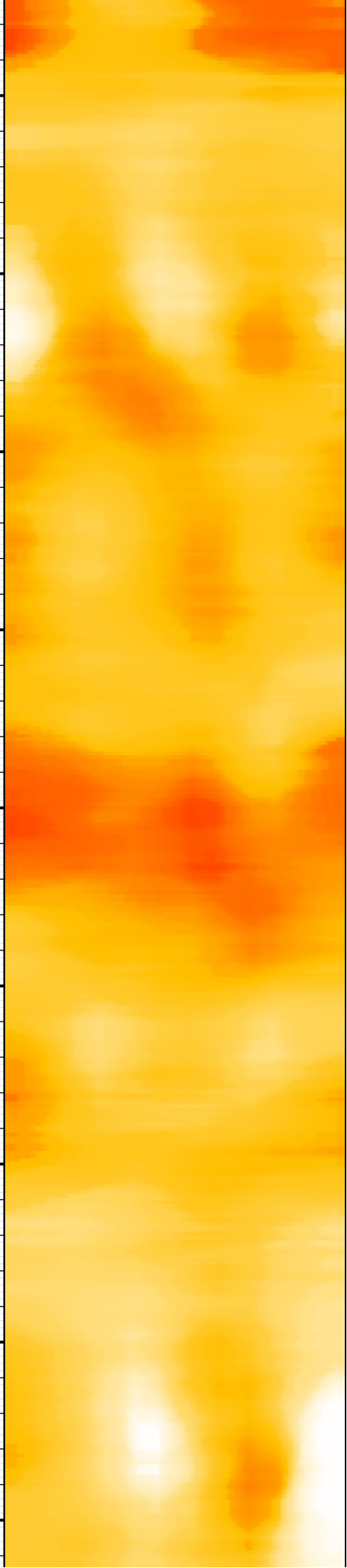
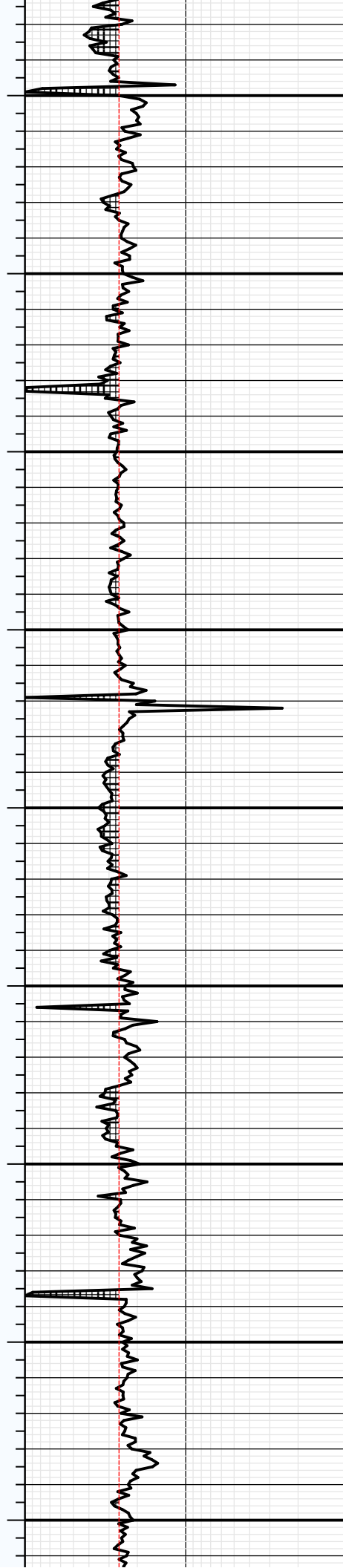
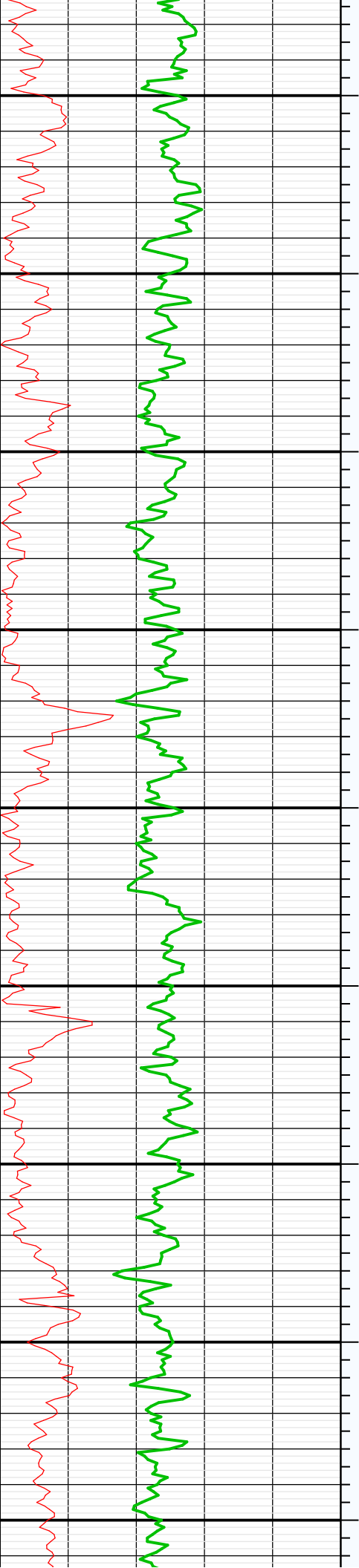


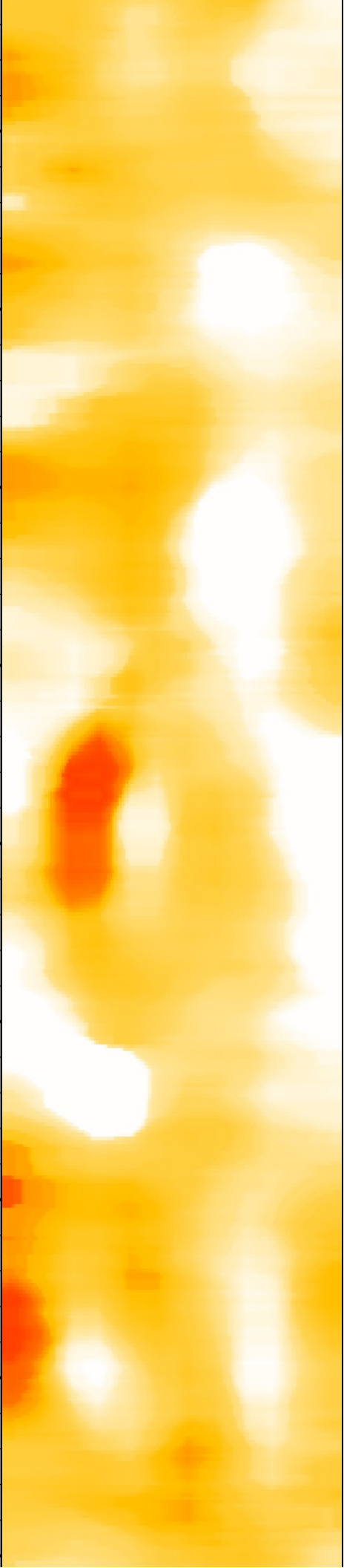
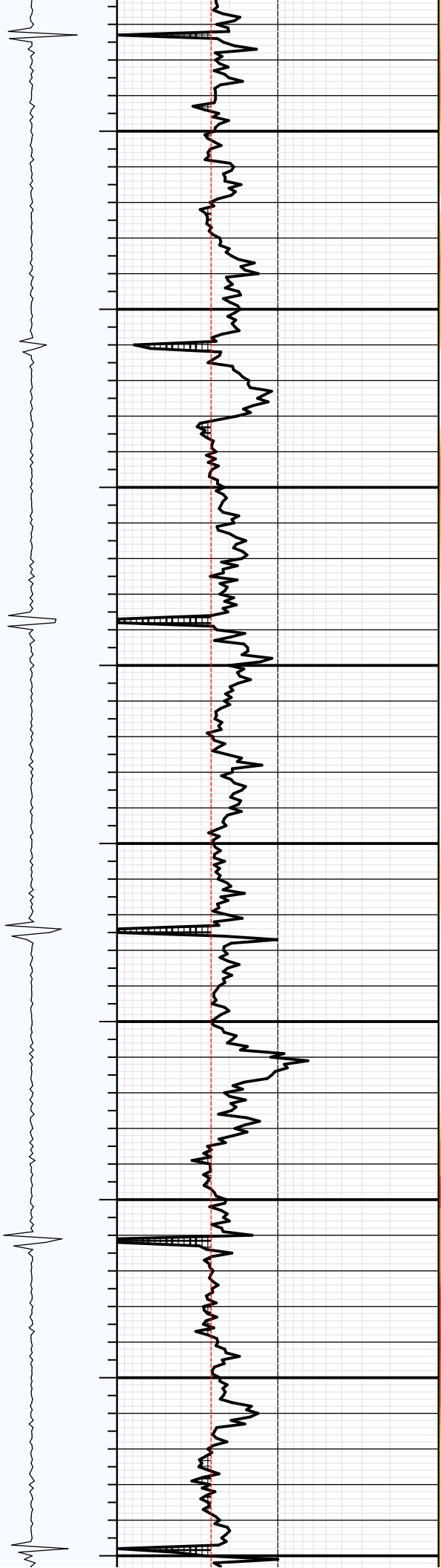
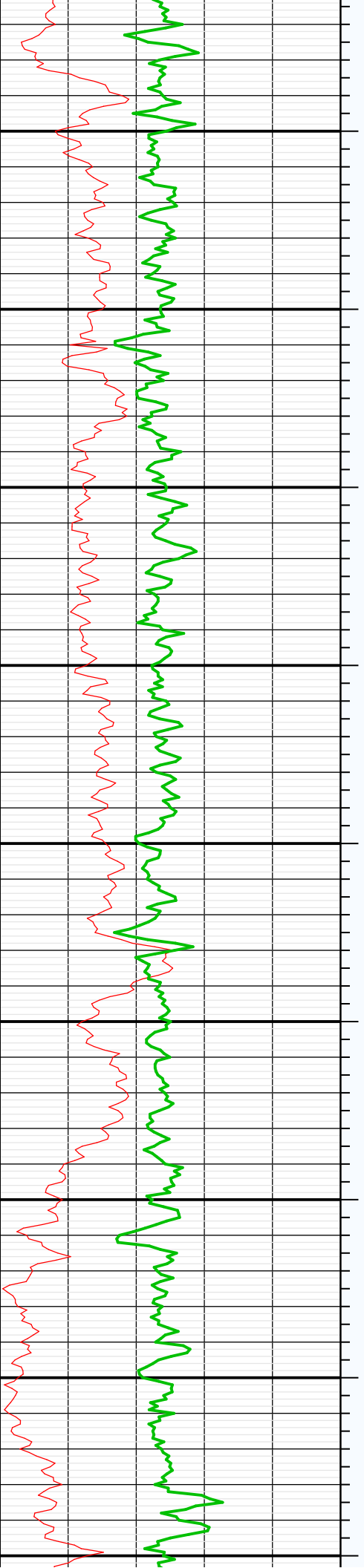


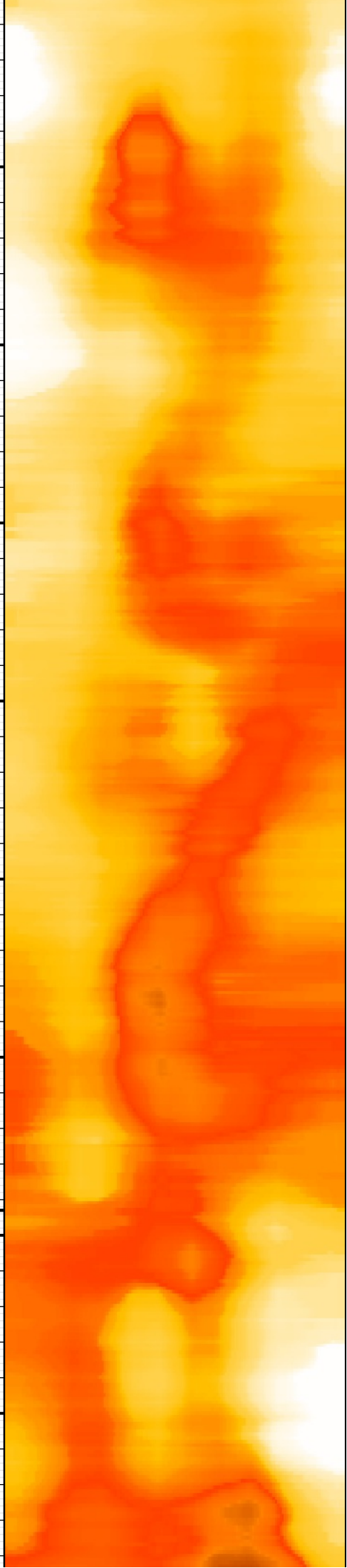
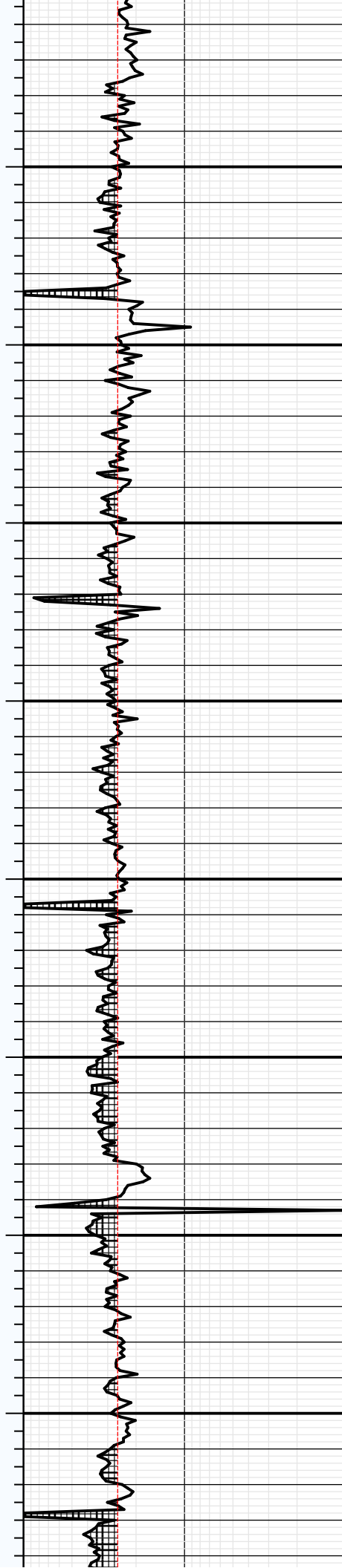
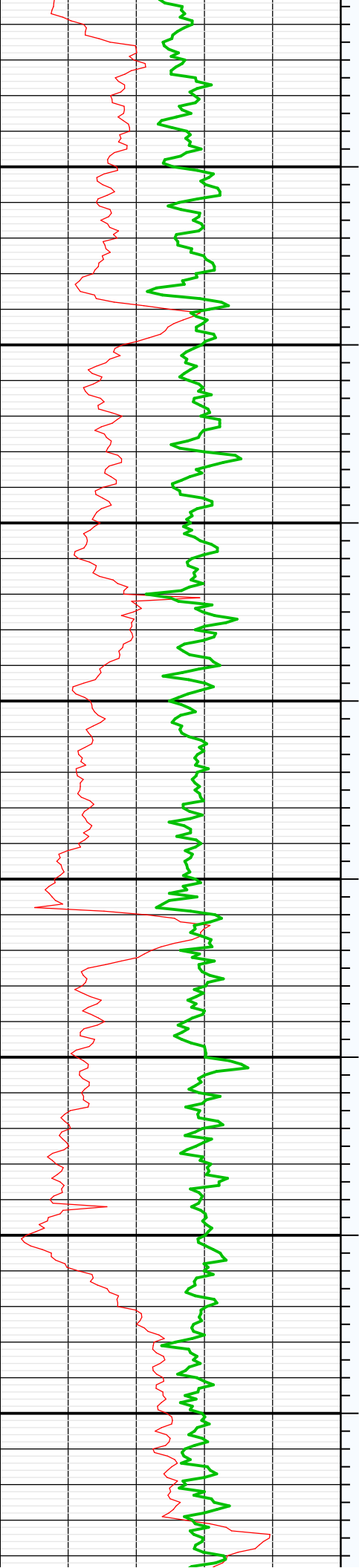


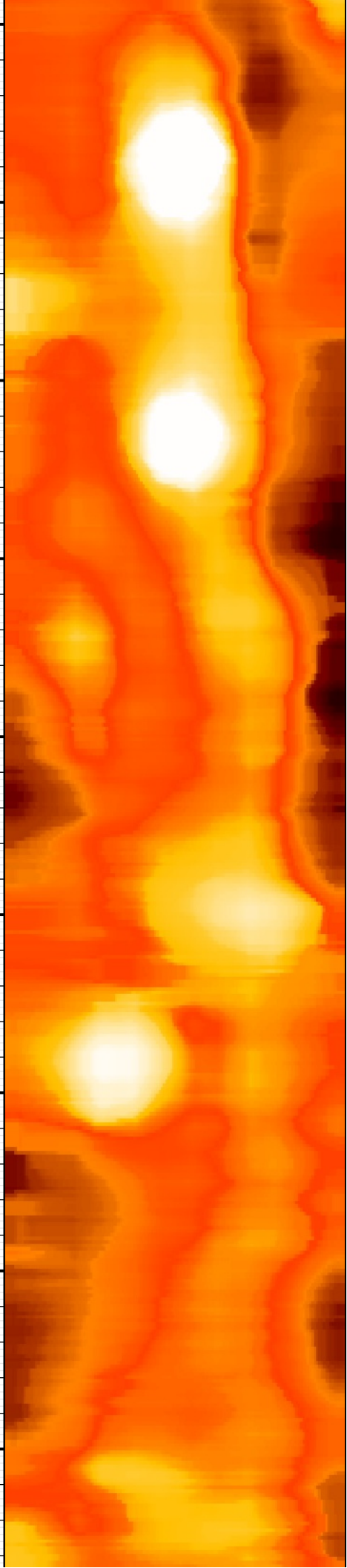
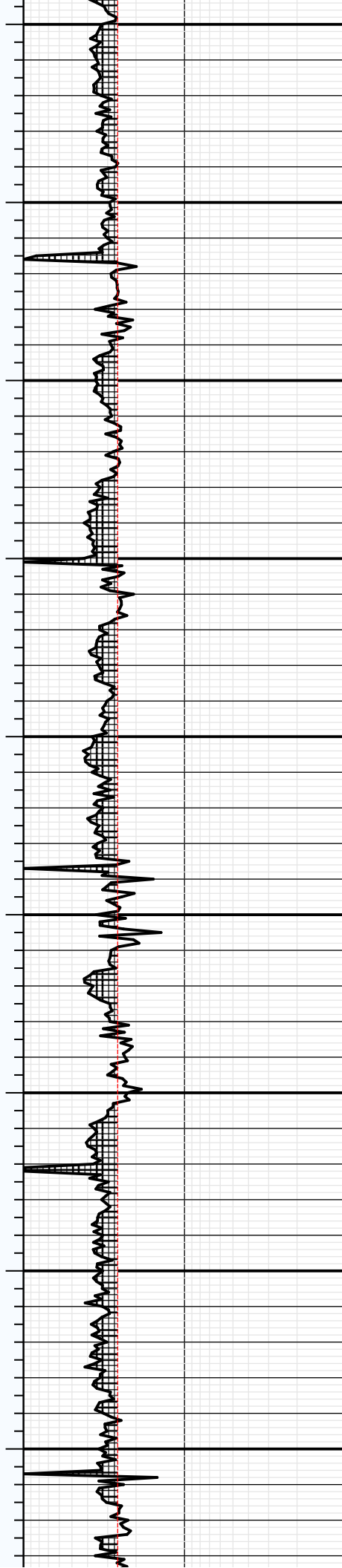
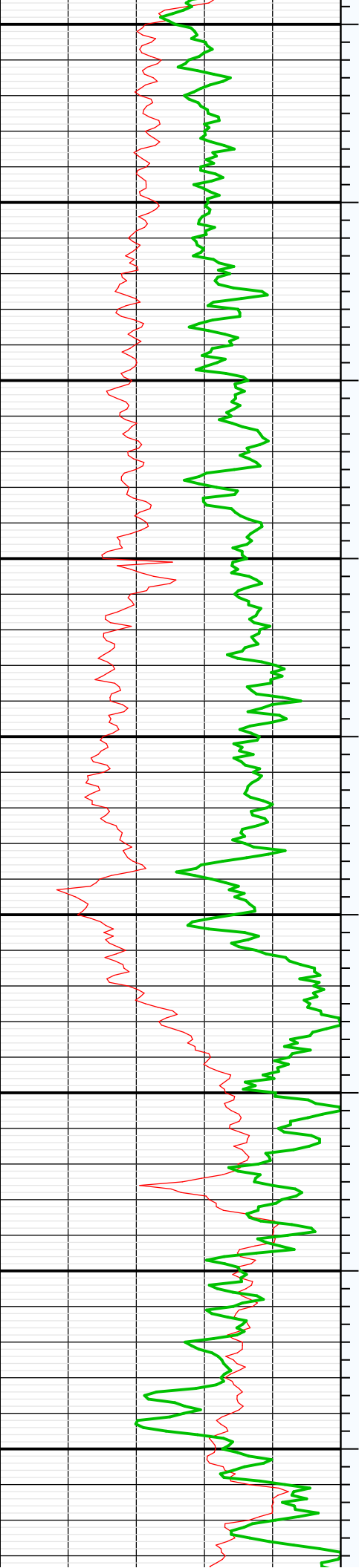


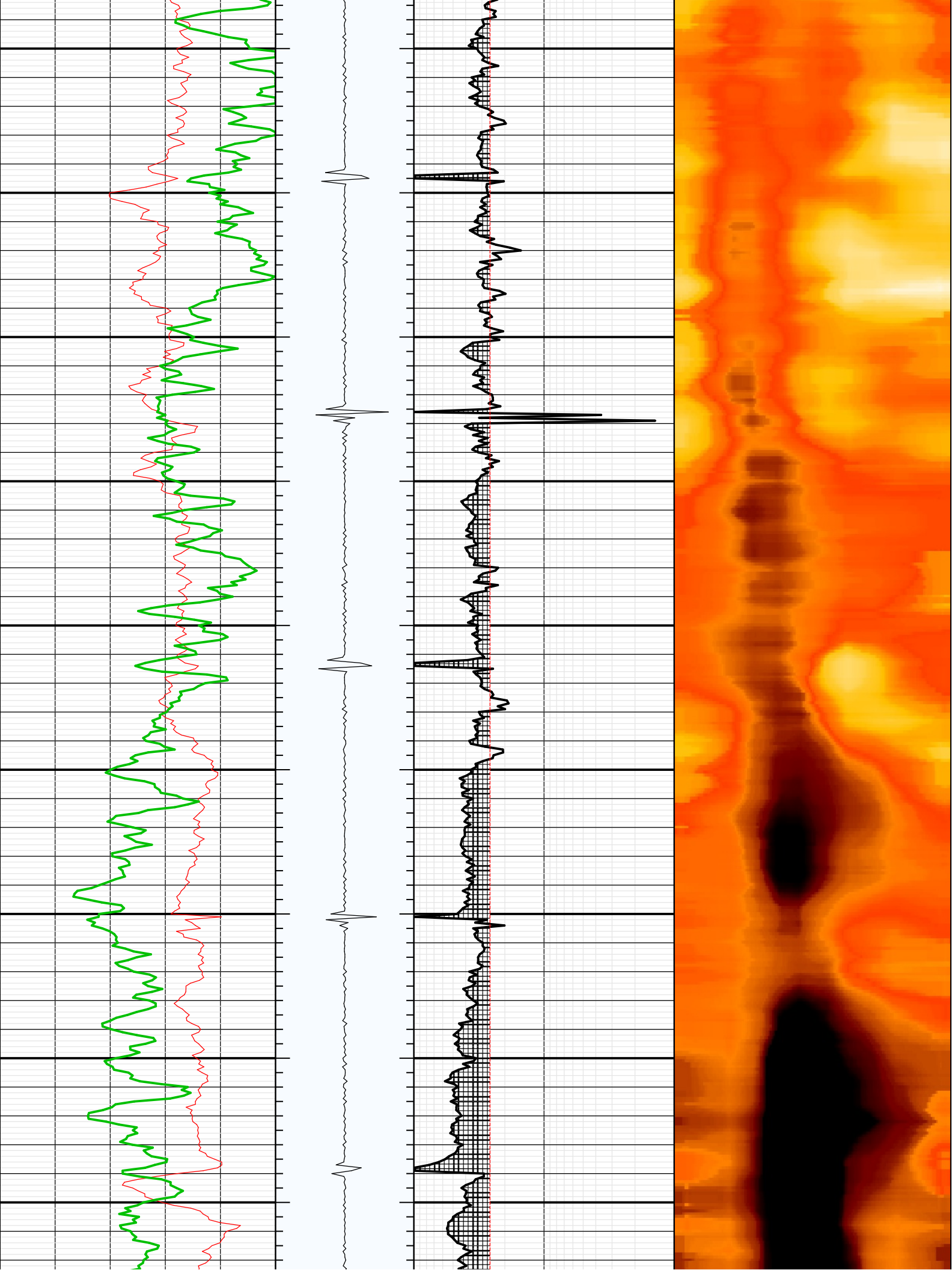


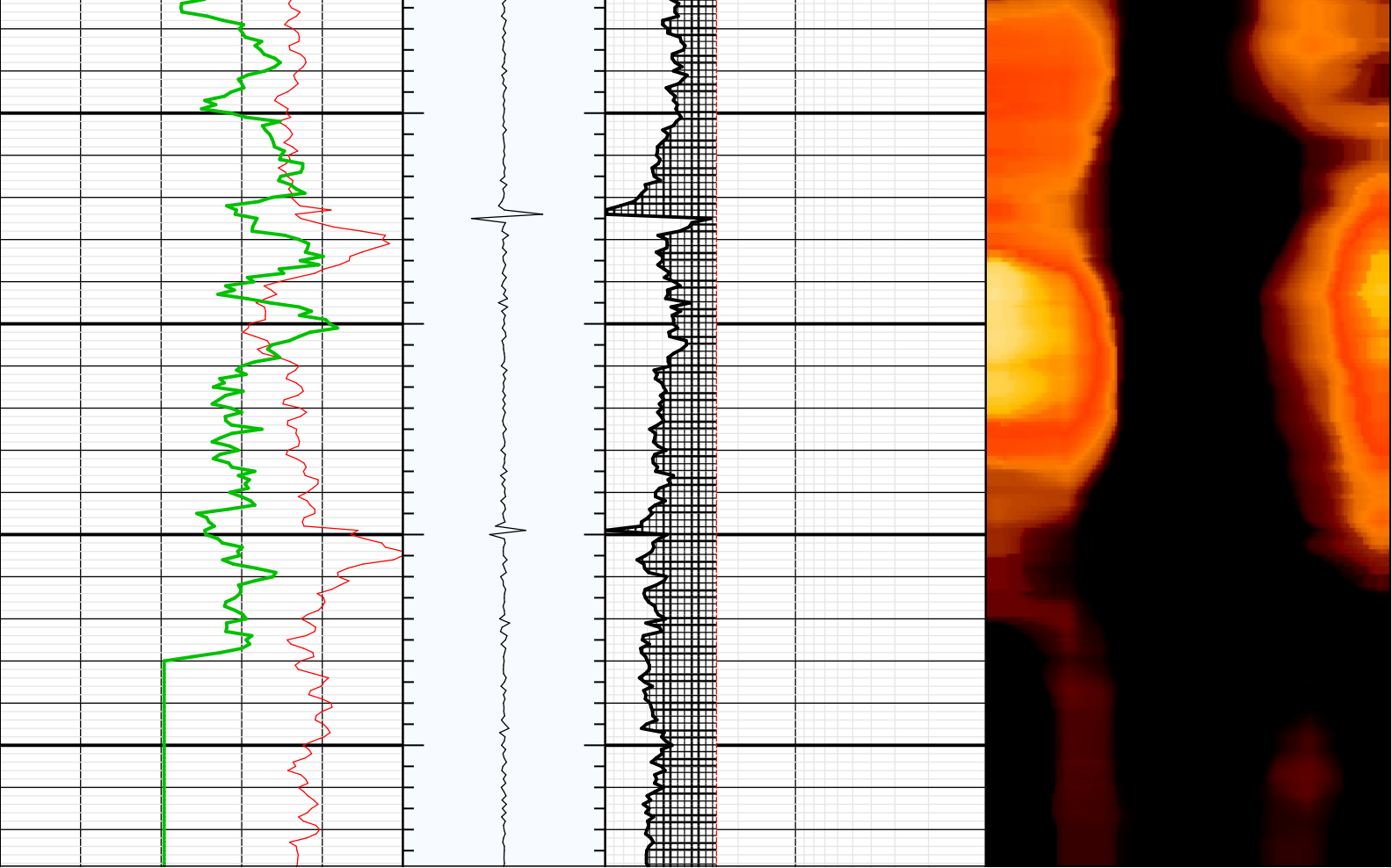








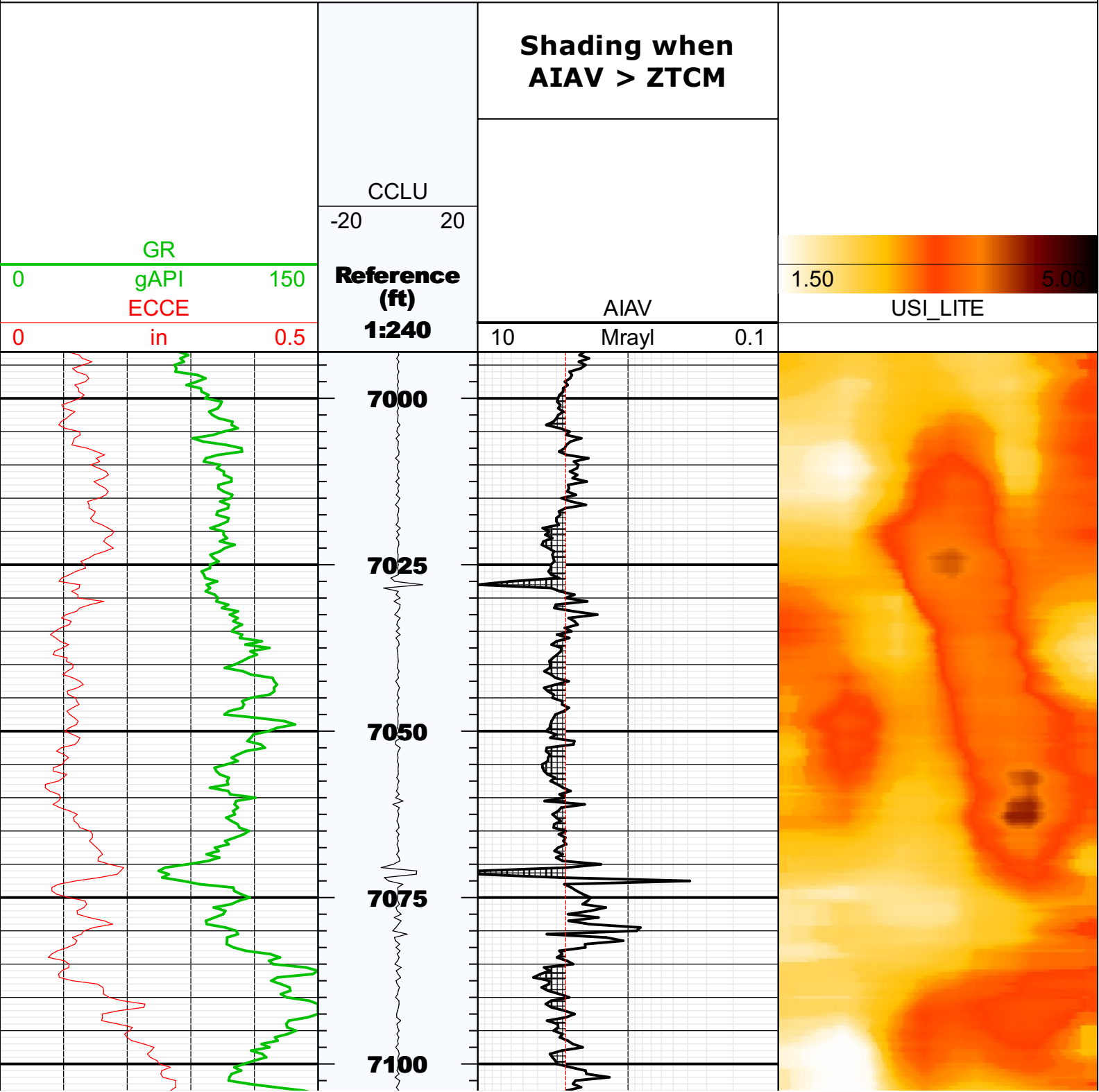


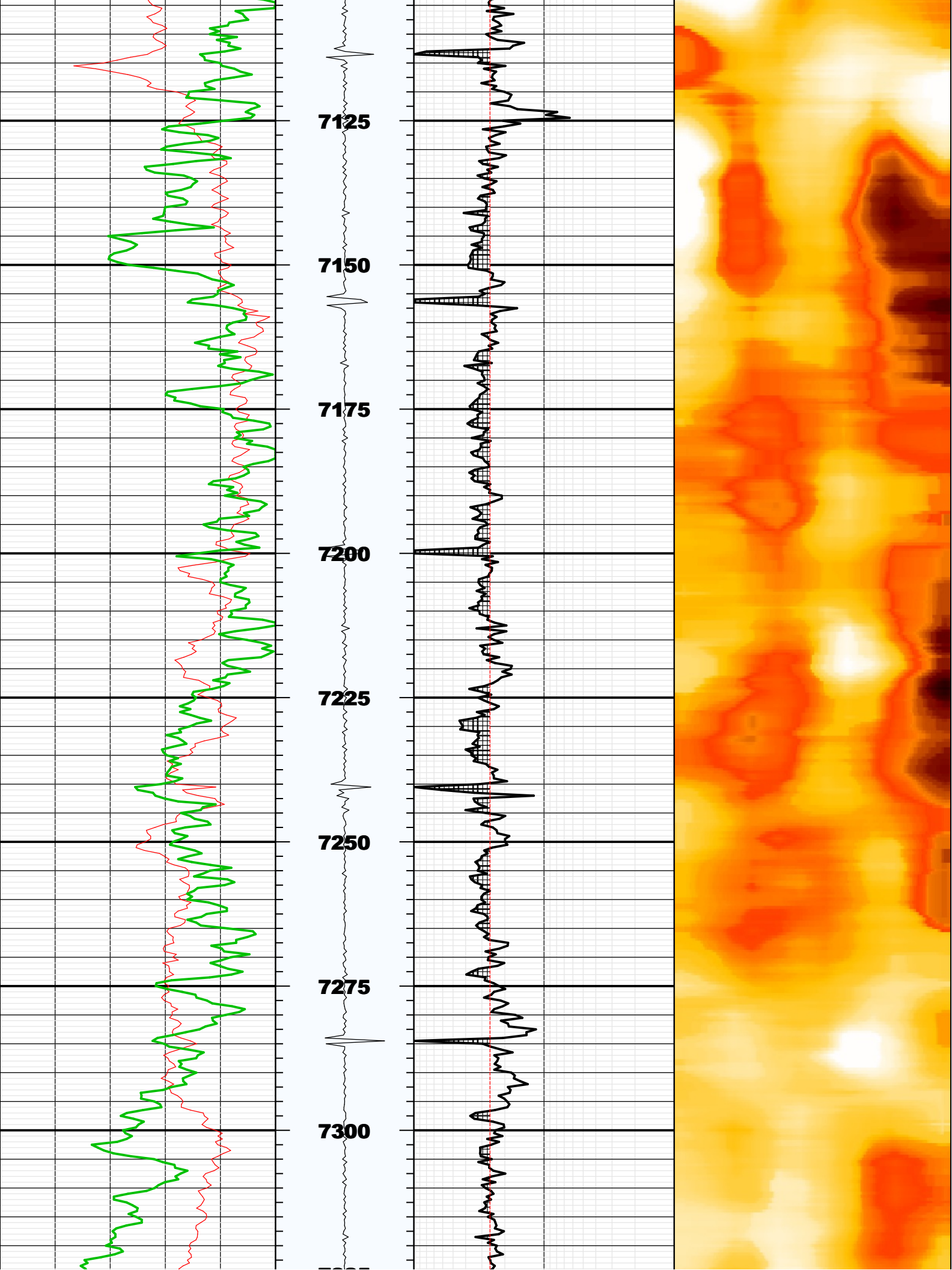


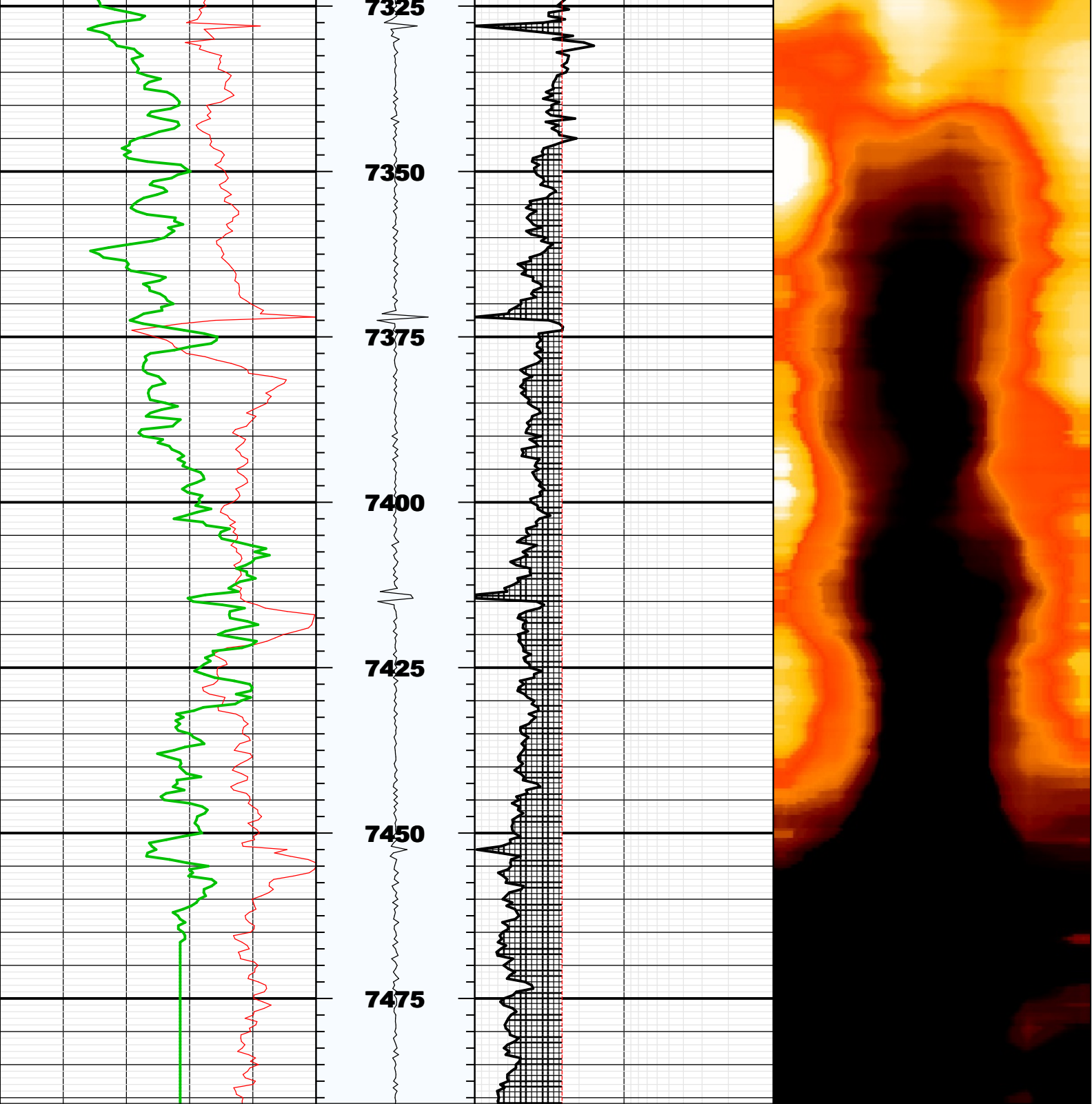
| | | | |
|-------------|----------------|------|--|
| BS | 8.75000 | IN | Bit Size |
| CASG | P-110 | | Casing Grade |
| CDIA | 7.00000 | IN | Casing Outer Diameter |
| CSID | 6.27600 | IN | Casing Inner Diameter |
| CSIZ | 7.00000 | IN | Current Casing Size |
| CWEI | 26.00000 | LB/F | Casing Weight |
| DFD | 8.40000 | LB/G | Drilling Fluid Density |
| DFVL | 190.00000 | US/F | Default Fluid Velocity |
| DO | 3.00000 | F | Depth Offset for Playback |
| DOT | 2.87400 | IN | Diameter of Transducer Sensor |
| EMXV | 70 | V | EMEX Voltage |
| FDII | 0.00000 | F | FPM Data Interpolation Interval |
| FSOD | 0_OFF | | Fluid Slowness Fits Casing Outer Diameter |
| LOGMODE | MEASURED_DEPTH | | Depth Logging Mode |
| PP | RECOMPUTE | | Playback Processing |
| 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 | BRI | | Type of Mud |
| U-USIT_DT3P | C | | Decimated Tcube Policy |
| UPAT | 375K | | Emission Pattern |
| USUB | 7INC | | Ultrasonic Subassembly Identifier |
| UWKM | D603010L | | Ultrasonic Working Mode |
| VCAS | 51.40000 | US/F | Ultrasonic Transversal Velocity in Casing |
| WINB | 33.86500 | US | Window Begin Time |
| WINE | 73.86500 | 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 | 21.70779 | US | T^3 Processing Length |

Repeat Pass

Company: Noble Energy Inc
Well: Cecil Farms PC I06-68-1HN
Field: Wattenberg







Fluid Properties Used for Main Pass

