



# CEMENT BOND LOG GAMMA RAY CCL VDL

|                        |                         |                             |         |                |
|------------------------|-------------------------|-----------------------------|---------|----------------|
| Company                | GREAT WESTERN OIL & GAS |                             | Country | USA            |
| Well                   | RAINDANCE FD #20-242HN  |                             |         |                |
| Field                  | WATTENBERG              |                             |         |                |
| County                 | WELD                    |                             |         |                |
| State                  | COLORADO                |                             |         |                |
| Company                |                         | GREAT WESTERN OIL & GAS     |         |                |
| Well                   |                         | RAINDANCE FD #20-242HN      |         |                |
| Field                  |                         | WATTENBERG                  |         |                |
| County                 |                         | WELD                        |         |                |
| State                  |                         | COLORADO                    |         |                |
| Country                |                         | USA                         |         |                |
| Location:              |                         | API # : 05-123-44992        |         | Other Services |
|                        |                         | 729' FNL X 256' FEL<br>NENE |         | N/A            |
| Permanent Datum        | GL                      | Elevation                   | 4783'   | Elevation      |
| Log Measured From      | KB                      |                             |         | K.B. 4759'     |
| Drilling Measured From | KB                      |                             |         | D.F. 4759'     |
|                        |                         |                             |         | G.L. 4783'     |
| Date                   | 28-OCT-2017             |                             |         |                |
| Run Number             | ONE                     |                             |         |                |
| Depth Driller          | 12686'                  |                             |         |                |
| Depth Logger           | 7854'                   |                             |         |                |
| Bottom Logged Interval | 7854'                   |                             |         |                |
| Top Log Interval       | SURFACE                 |                             |         |                |
| Open Hole Size         | 13-1/2"                 |                             |         |                |
| Type Fluid             | WATER                   |                             |         |                |
| Density / Viscosity    | 8.34 PPG                |                             |         |                |
| Max. Recorded Temp.    | N/A                     |                             |         |                |
| Estimated Cement Top   | 490'                    |                             |         |                |
| Time Well Ready        | ROA                     |                             |         |                |
| Time Logger on Bottom  | 2000                    |                             |         |                |
| Equipment Number       | 41                      |                             |         |                |
| Location               | PLATTEVILLE, CO         |                             |         |                |
| Recorded By            | B. TURNBULL             |                             |         |                |
| Witnessed By           | D. POZAS                |                             |         |                |
| Borehole Record        |                         | Tubing Record               |         |                |
| Run Number             | Bit                     | From                        | To      | Size           |
|                        |                         |                             |         | Weight         |
|                        |                         |                             |         | From           |
|                        |                         |                             |         | To             |
| Casing Record          | Size                    | Wgt/Ft                      | Top     | Bottom         |
| Surface String         | 9-5/8"                  | 36#                         | SURFACE | 1500           |
| Prod. String           |                         |                             |         |                |
| Production String      | 5-1/2"                  | 17#                         | SURFACE | 12686'         |
| Liner                  |                         |                             |         |                |

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

## Comments

CEMENT BOND LOG RUN AS PER CUSTOMER REQUEST  
LOGGED USING 24' KB  
EST TOP OF CEMENT AT 490'

THANK YOU FOR USING KLX ENERGY SERVICES

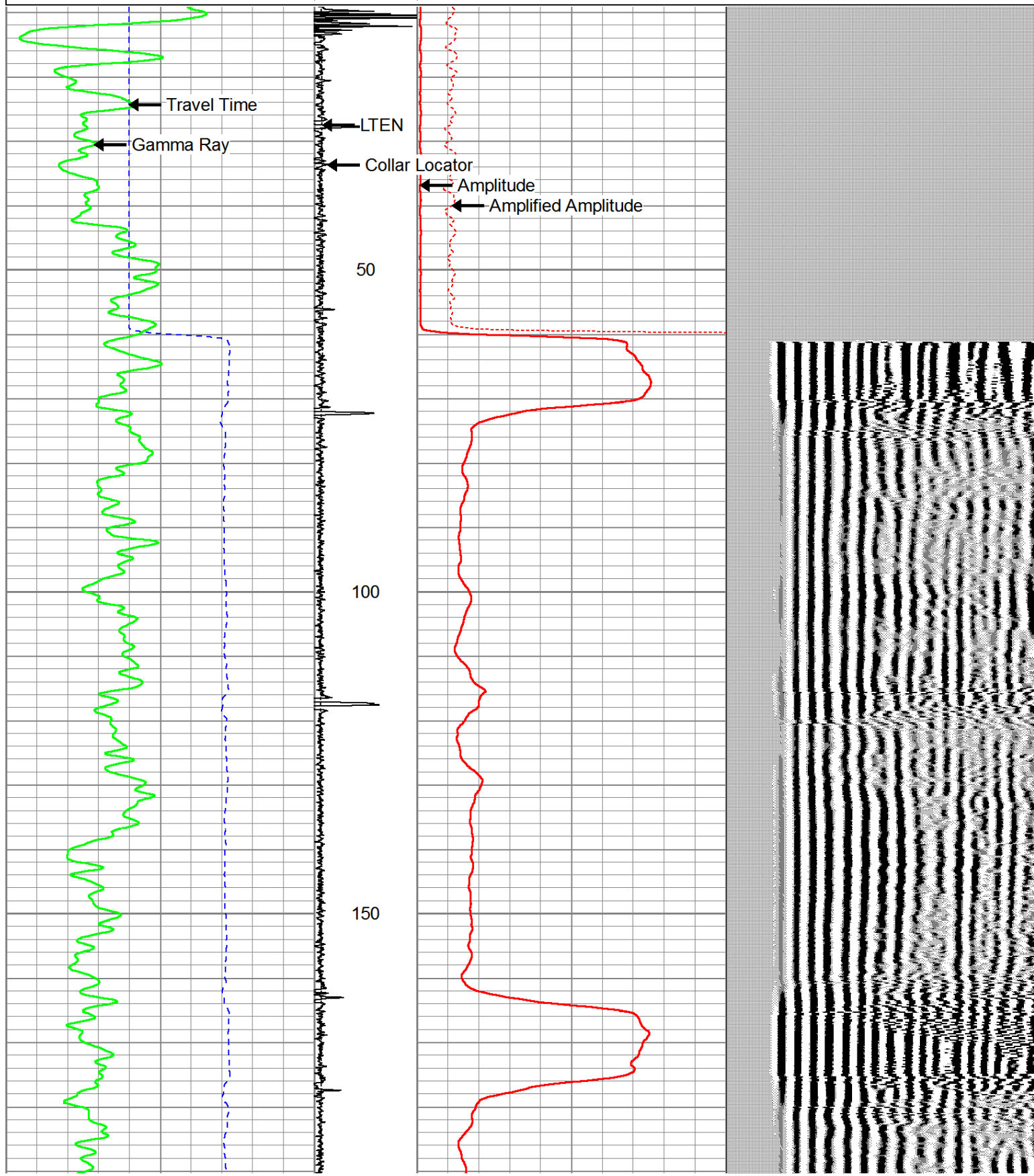


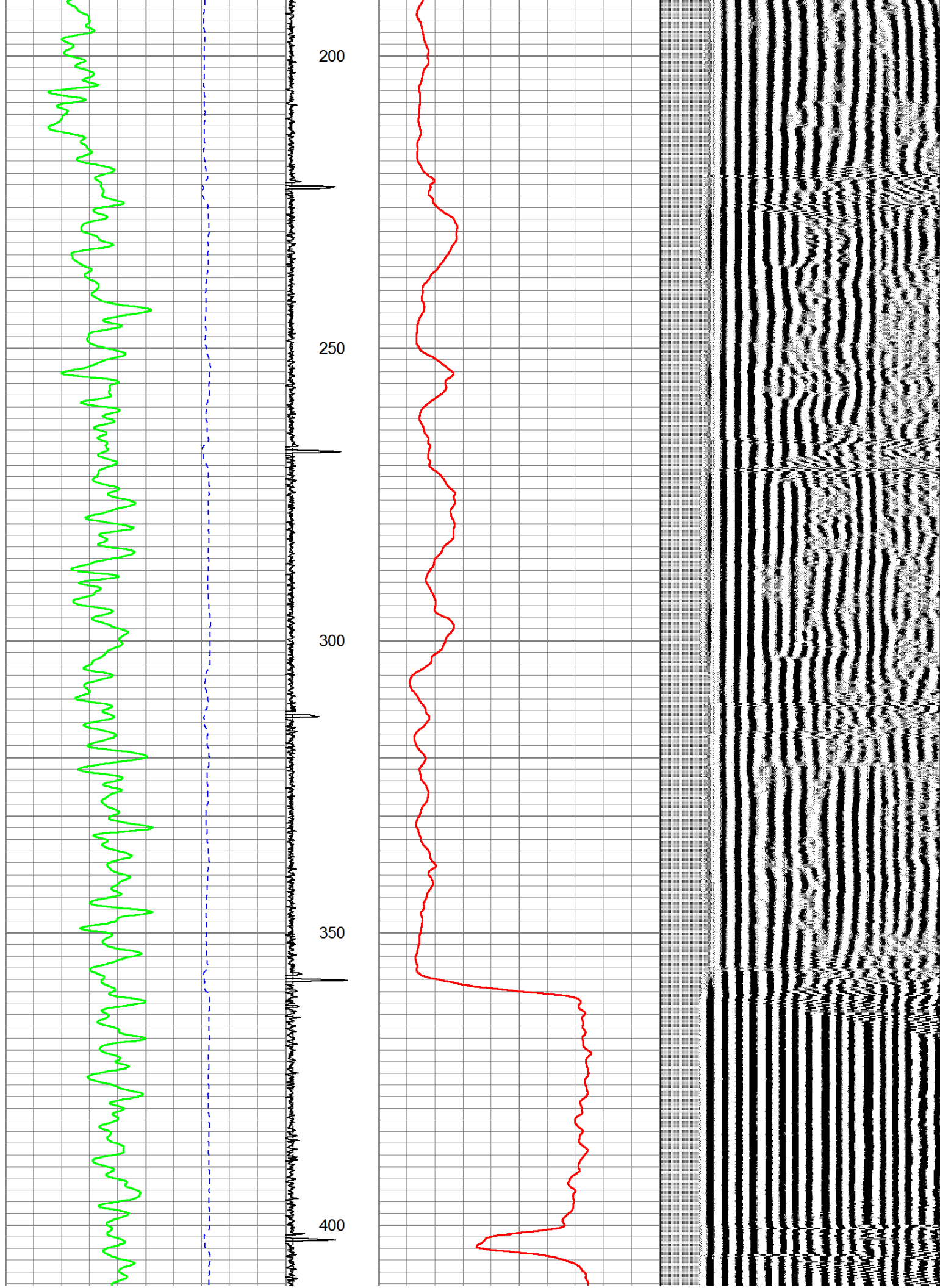
5-1/2" MAIN PASS

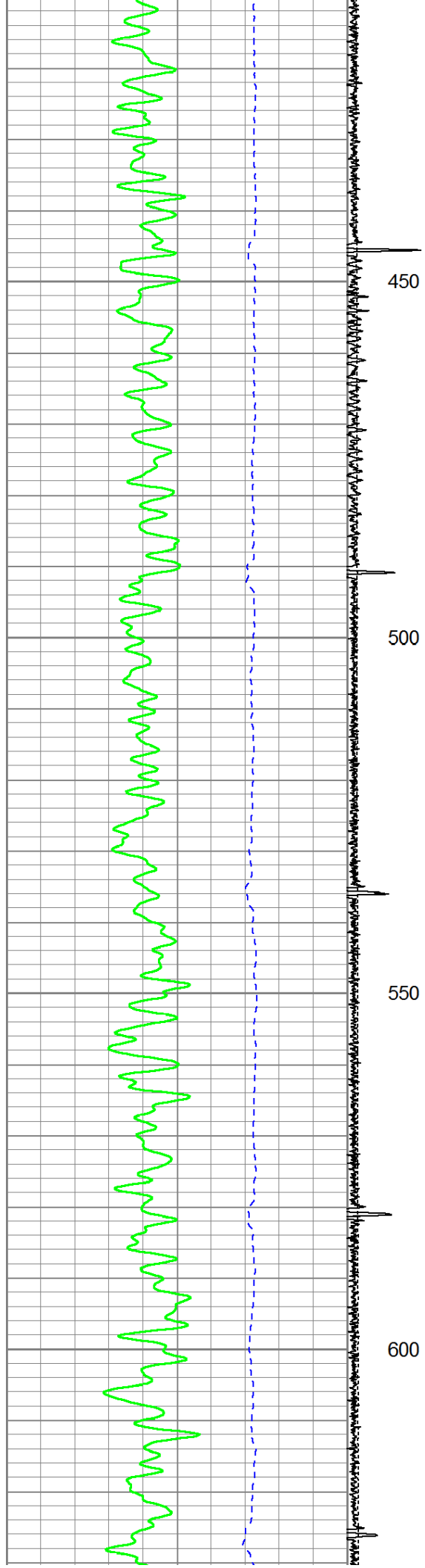
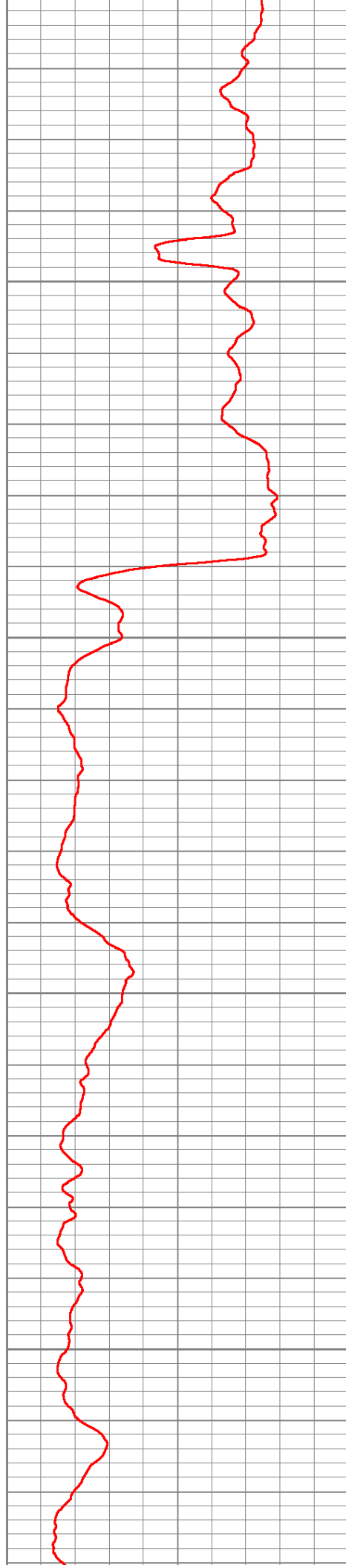
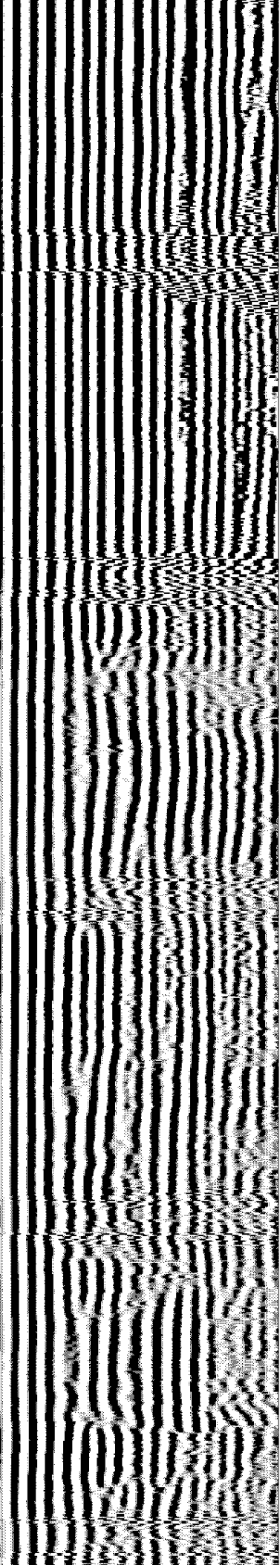
LOGGED UNDER 0 PSI INDUCED SURFACE PRESSURE

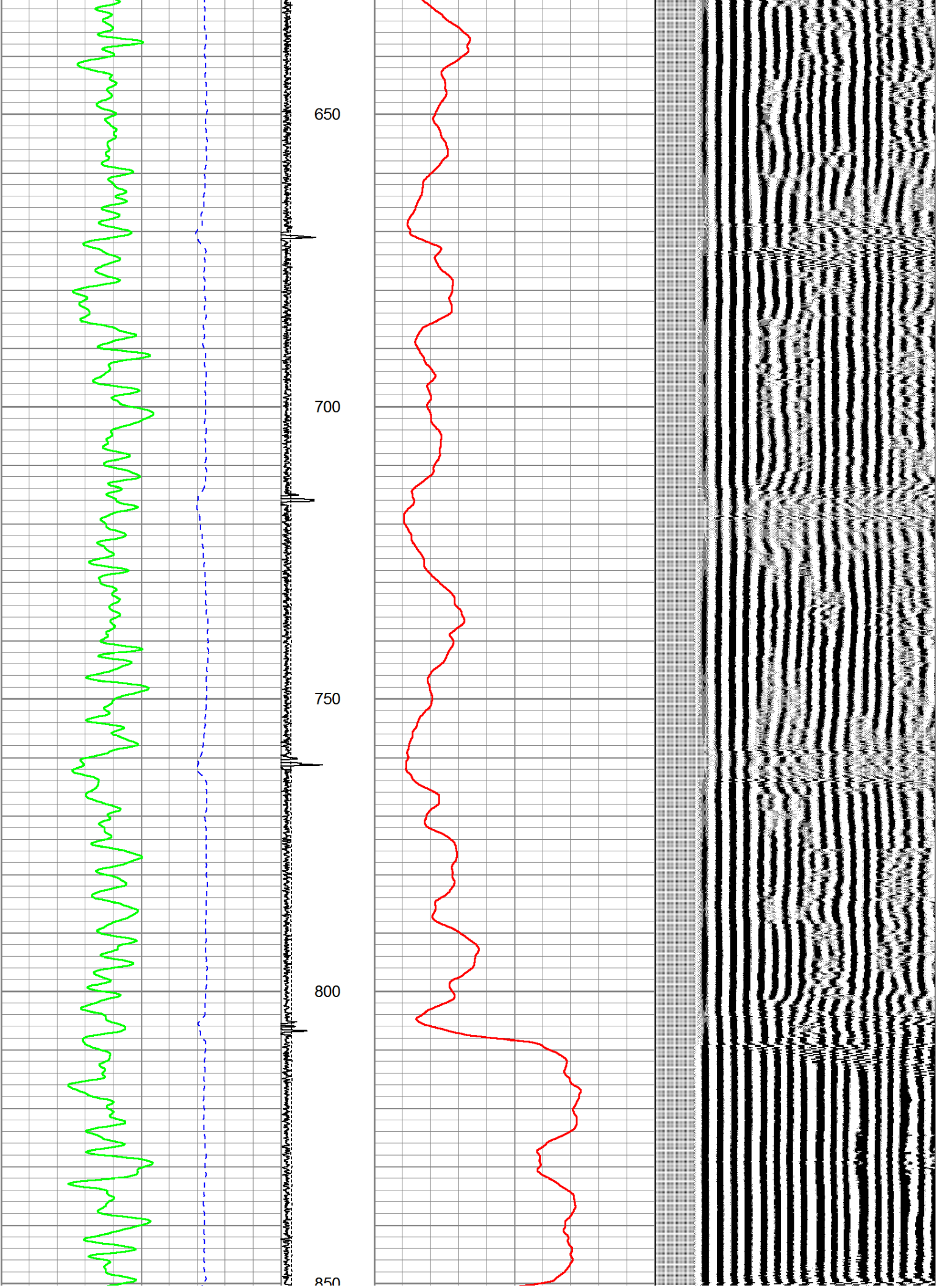
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Dataset Pathname: MAIN  
Presentation Format: cblww  
Dataset Creation: Sat Oct 28 20:07:00 2017 by Log Std Casedhole 10081  
Charted by: Depth in Feet scaled 1:240

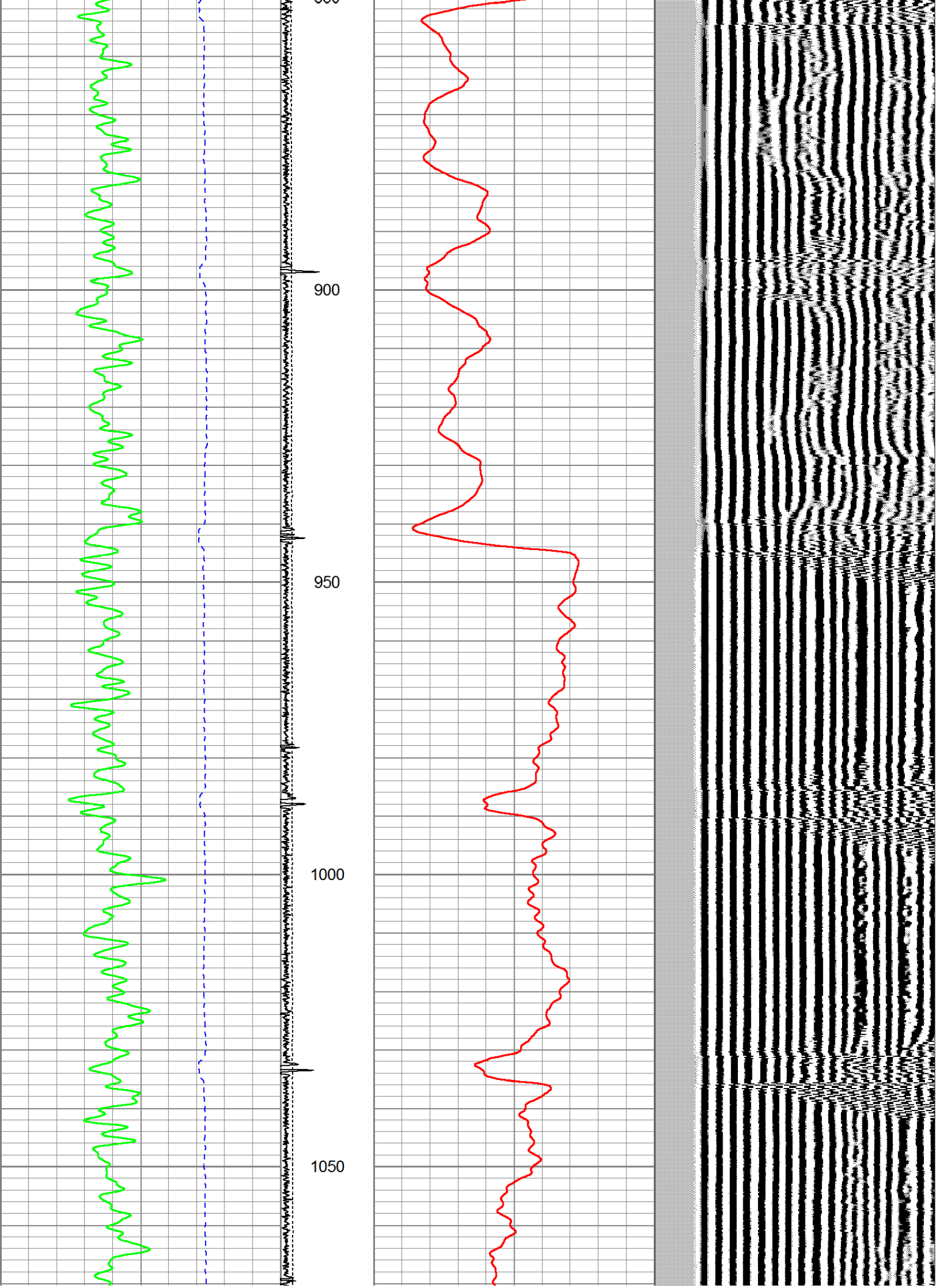
|     |                    |     |                |    |                          |                |     |                  |      |
|-----|--------------------|-----|----------------|----|--------------------------|----------------|-----|------------------|------|
| 400 | Travel Time (usec) | 200 | Collar Locator | 0  | Amplified Amplitude (mV) | 10             | 200 | Variable Density | 1200 |
| 0   | Gamma Ray (GAPI)   | 150 | -1             | 15 | 0                        | Amplitude (mV) | 100 |                  |      |
|     |                    |     | LTEN           |    |                          |                |     |                  |      |
|     |                    |     | 0 (lb/2000)    |    |                          |                |     |                  |      |

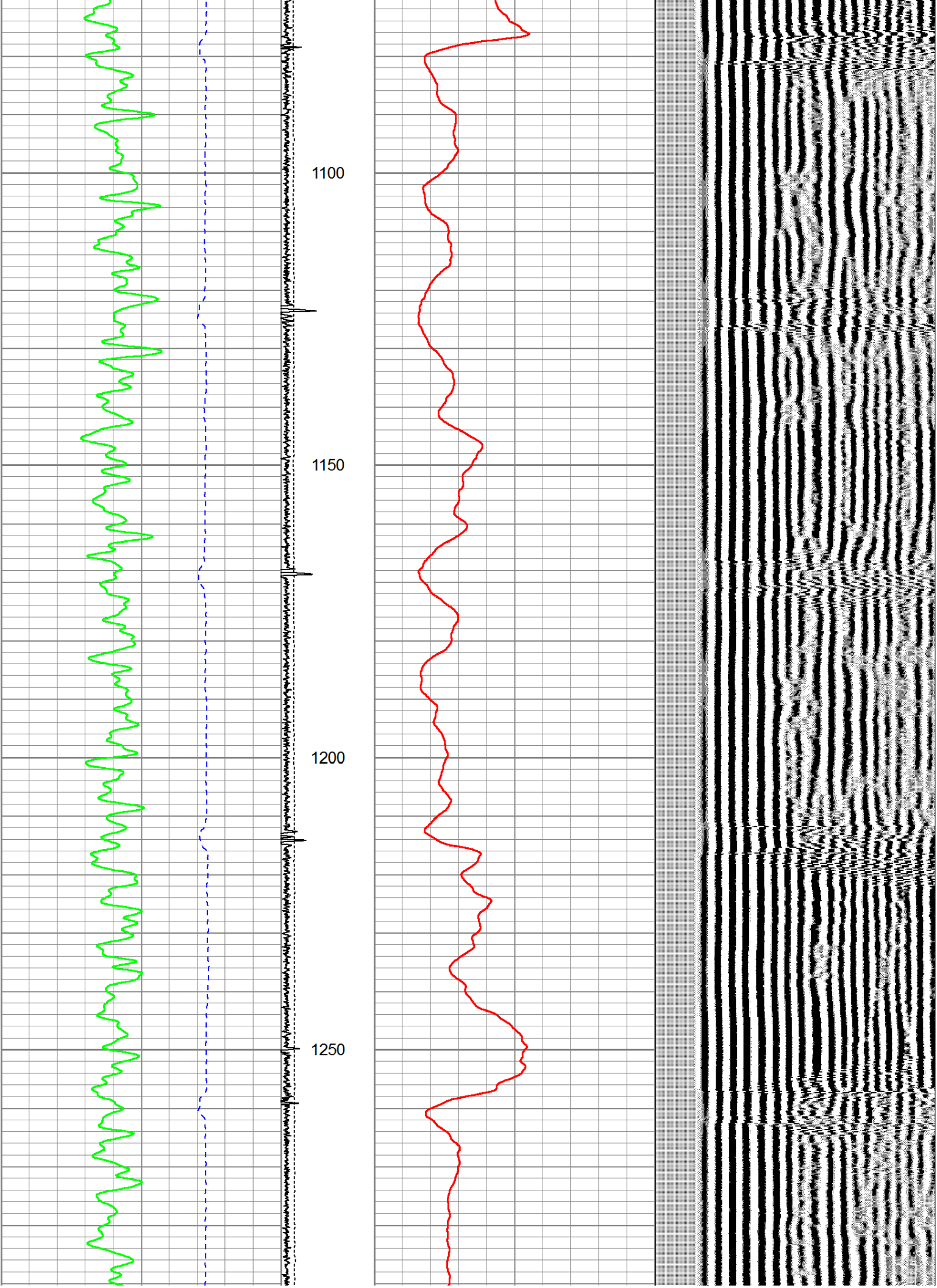


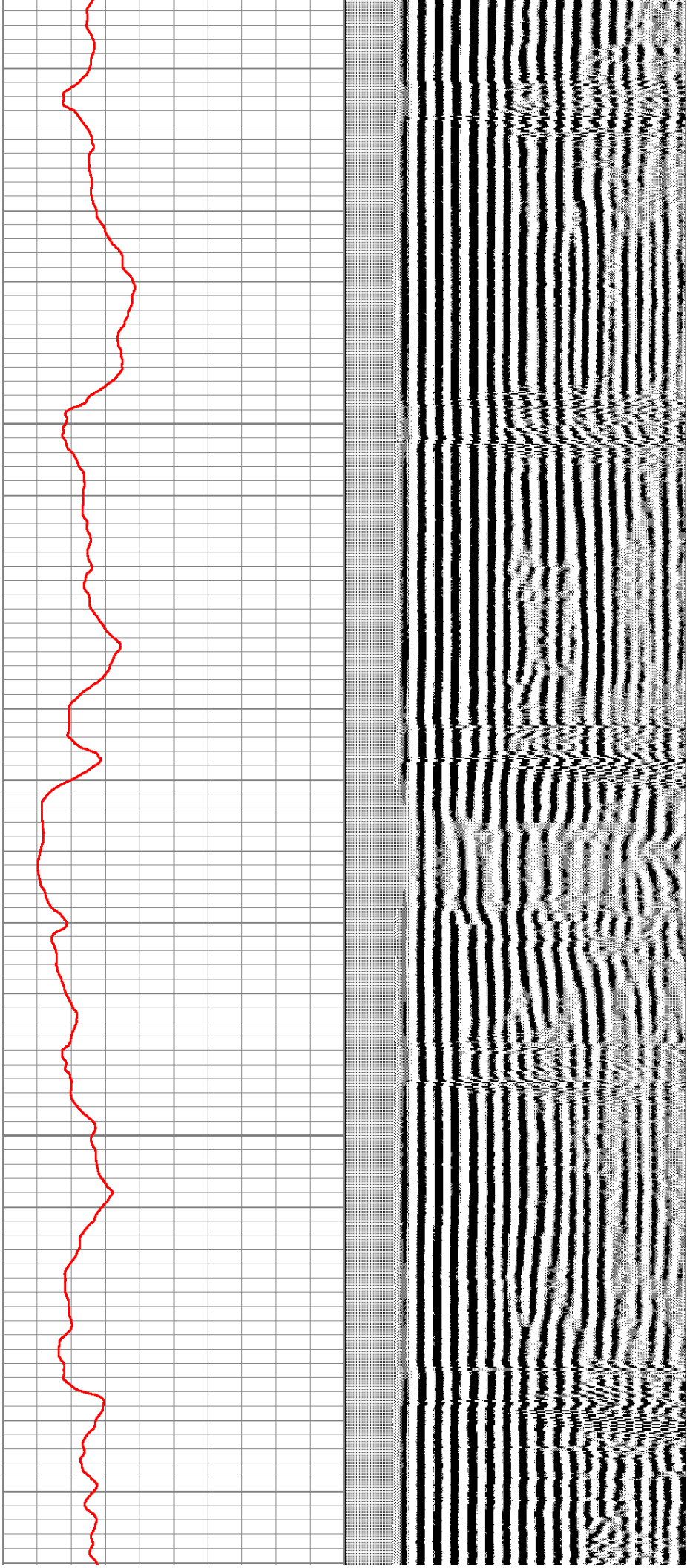
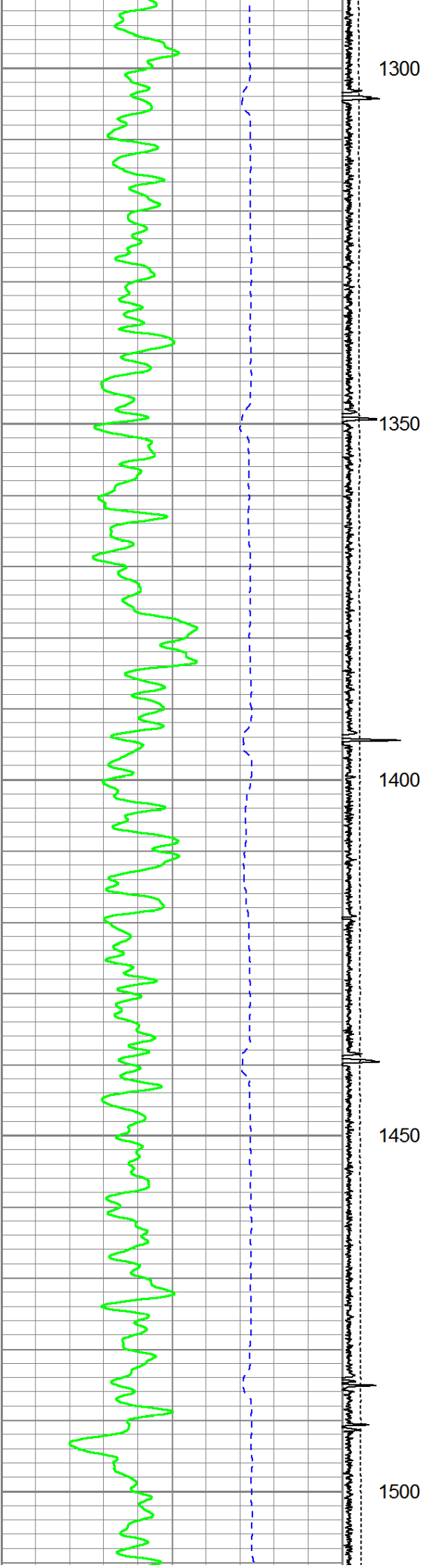


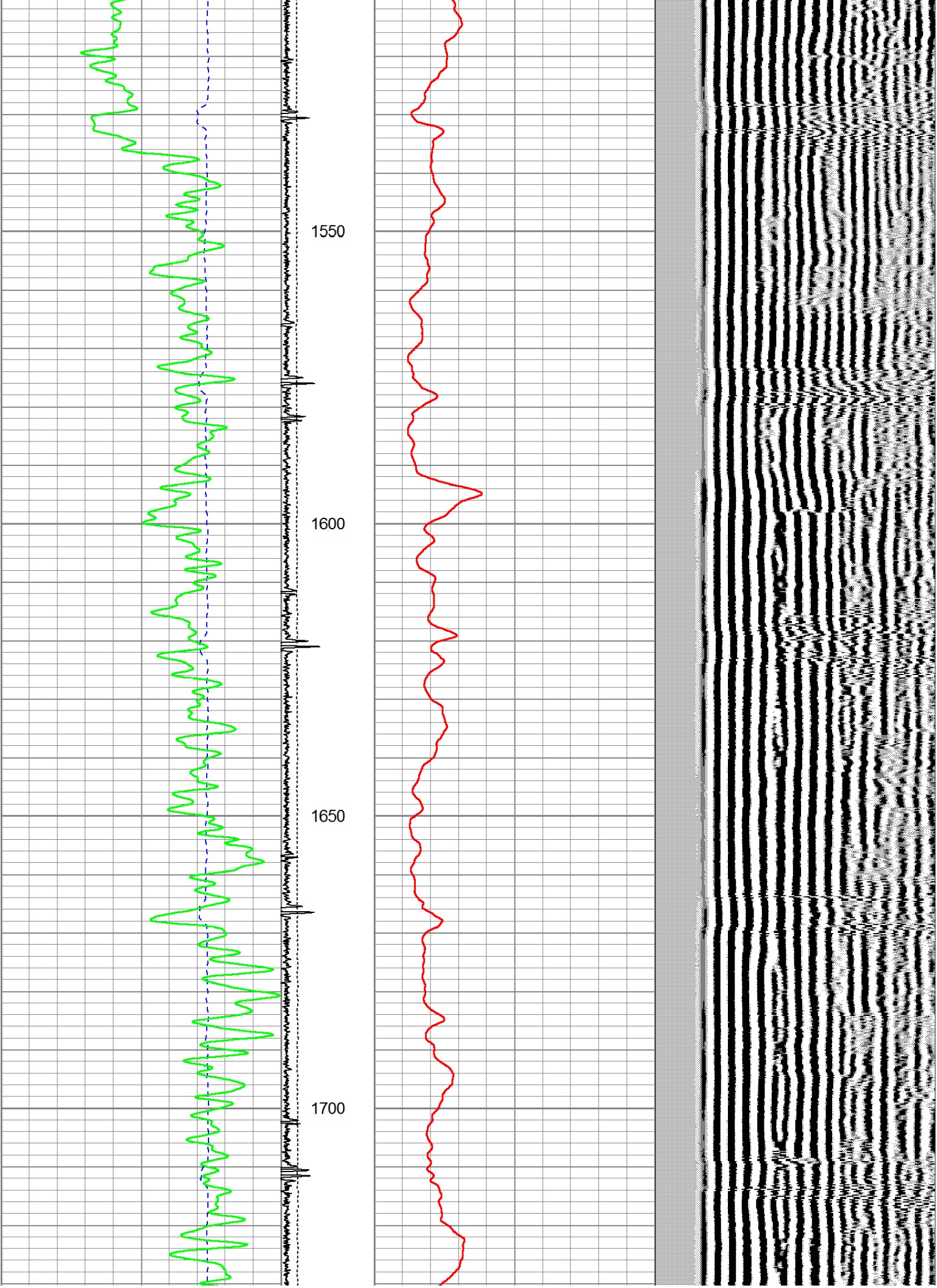


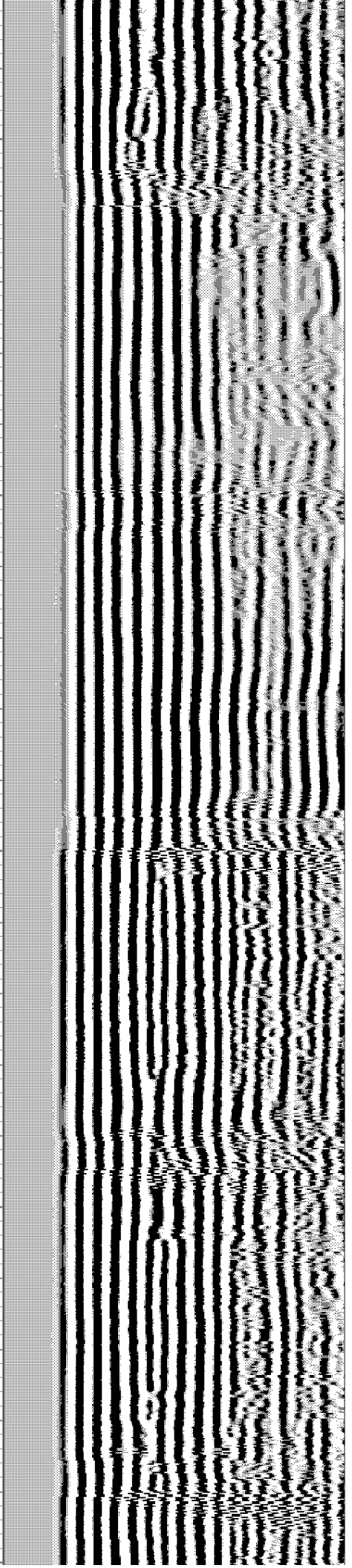
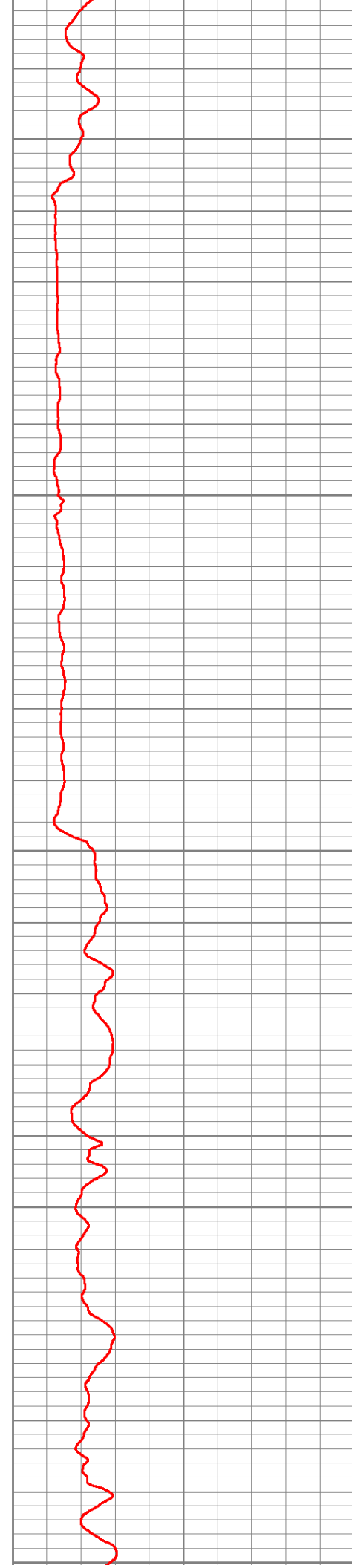
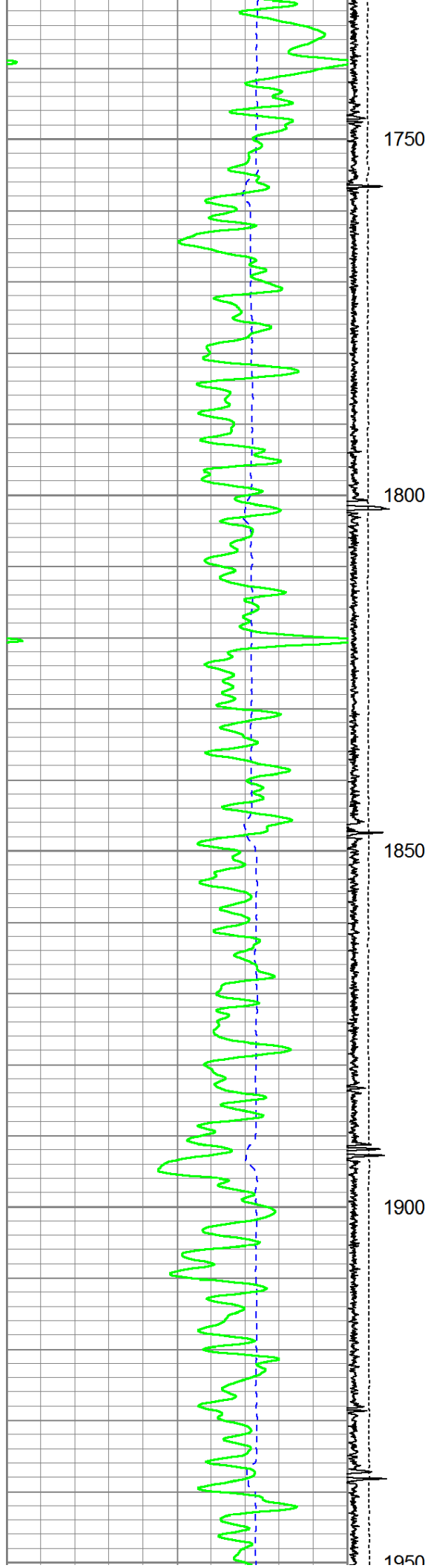


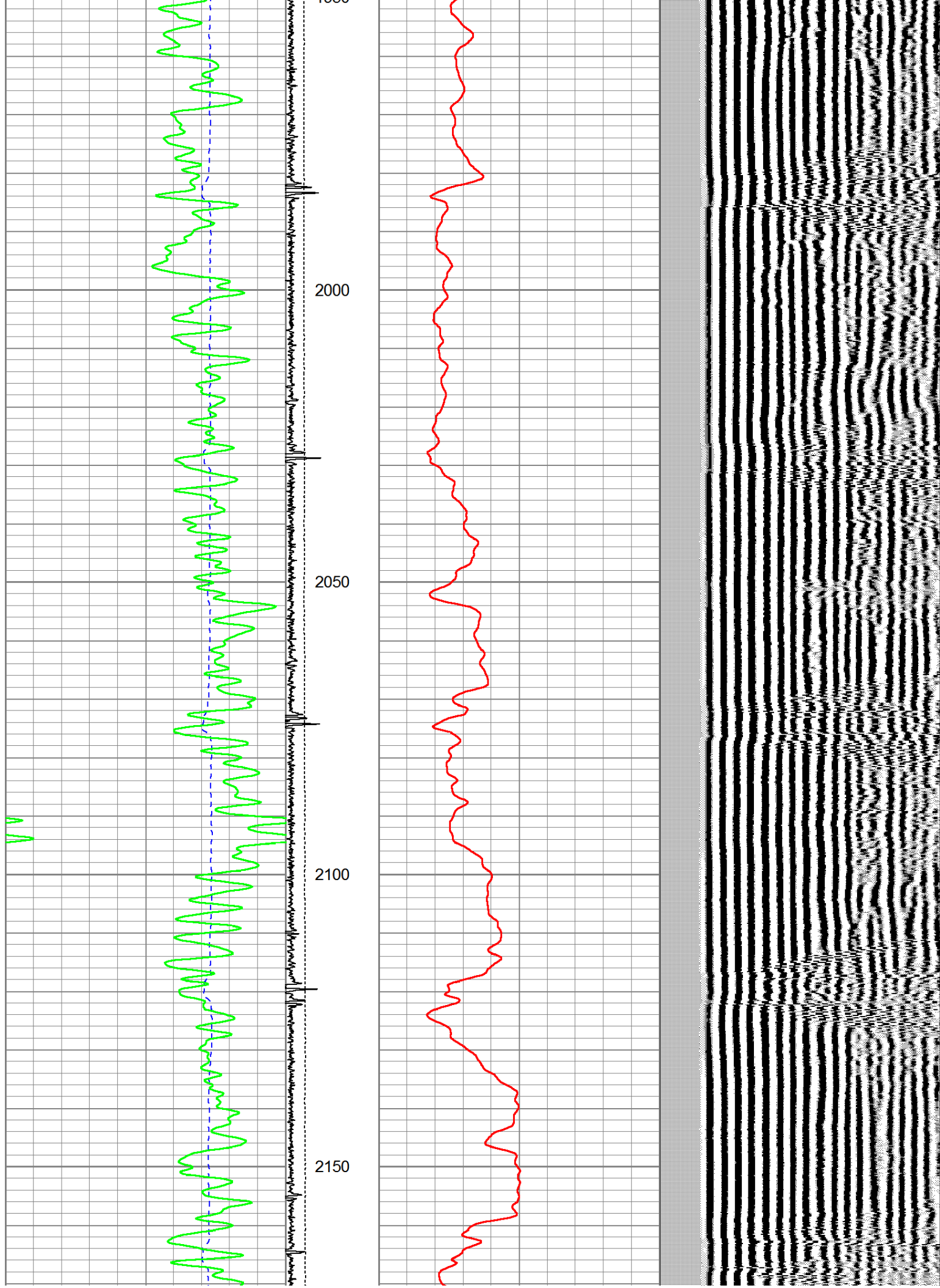


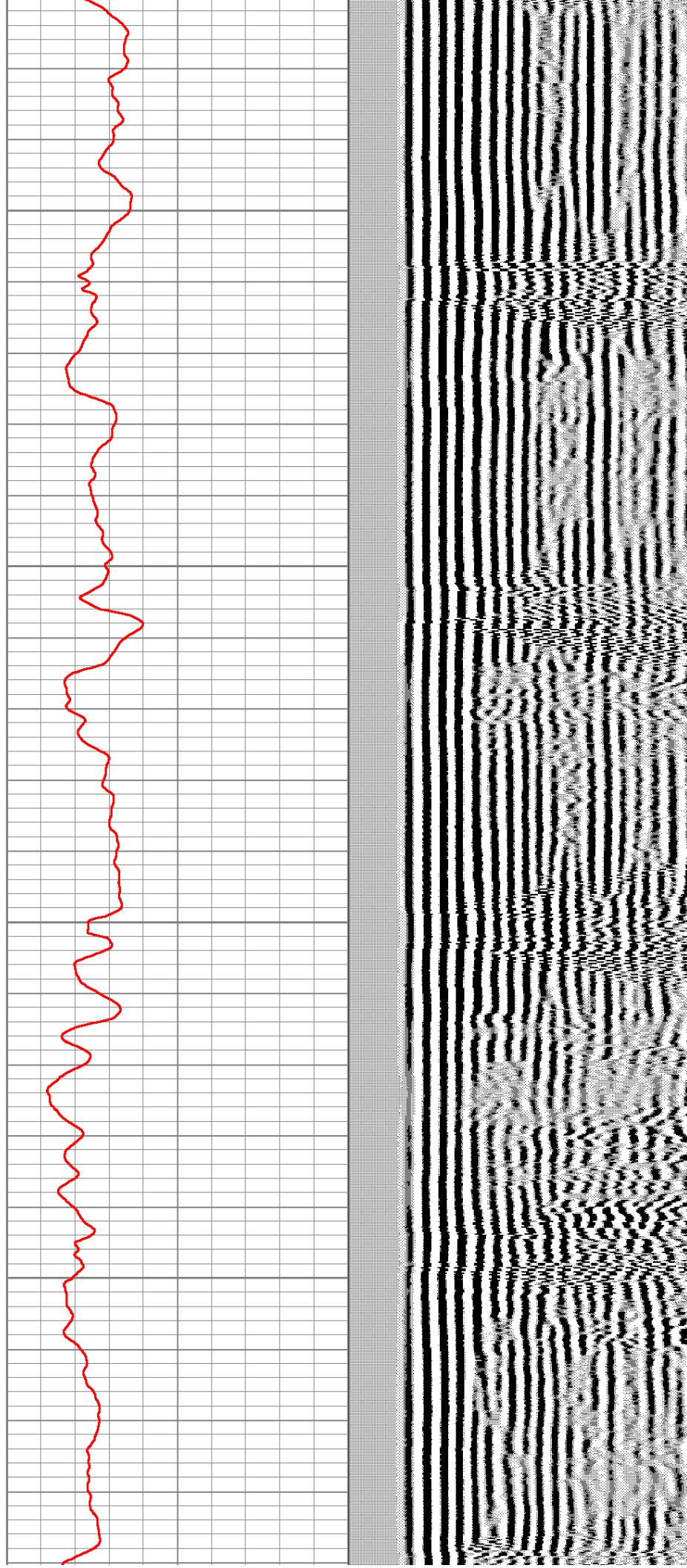
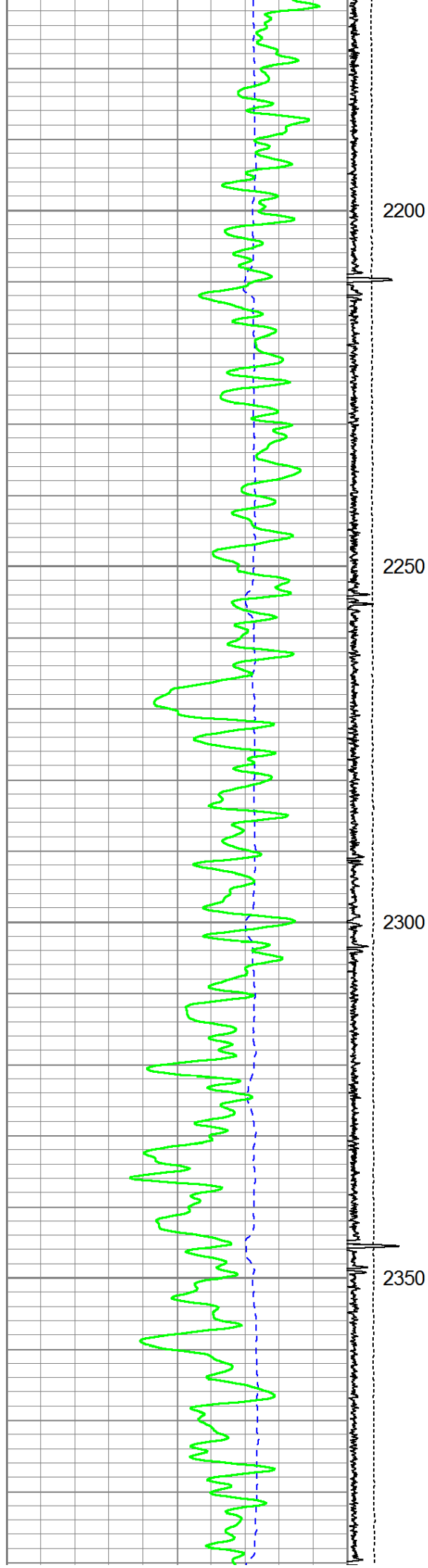


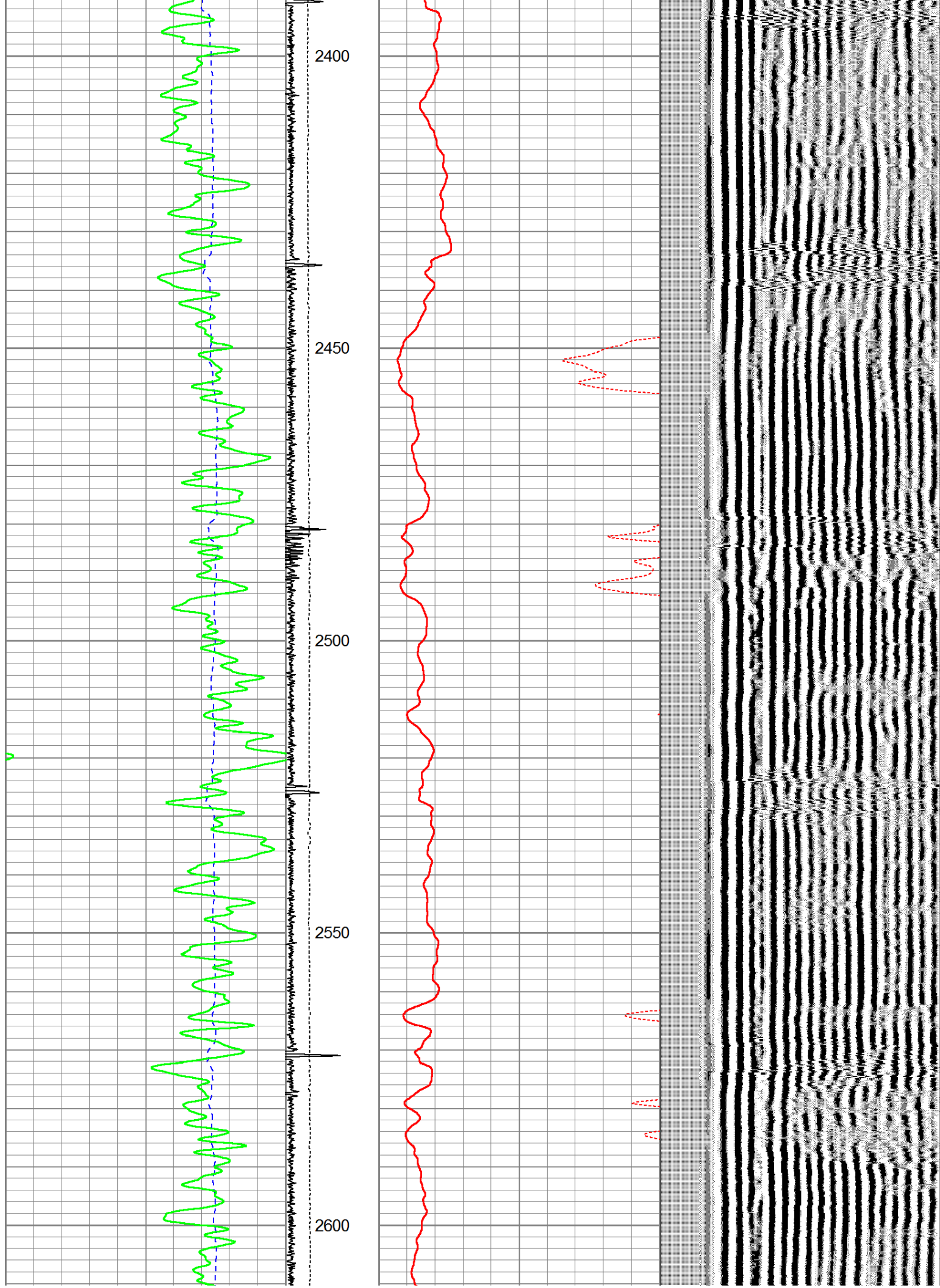


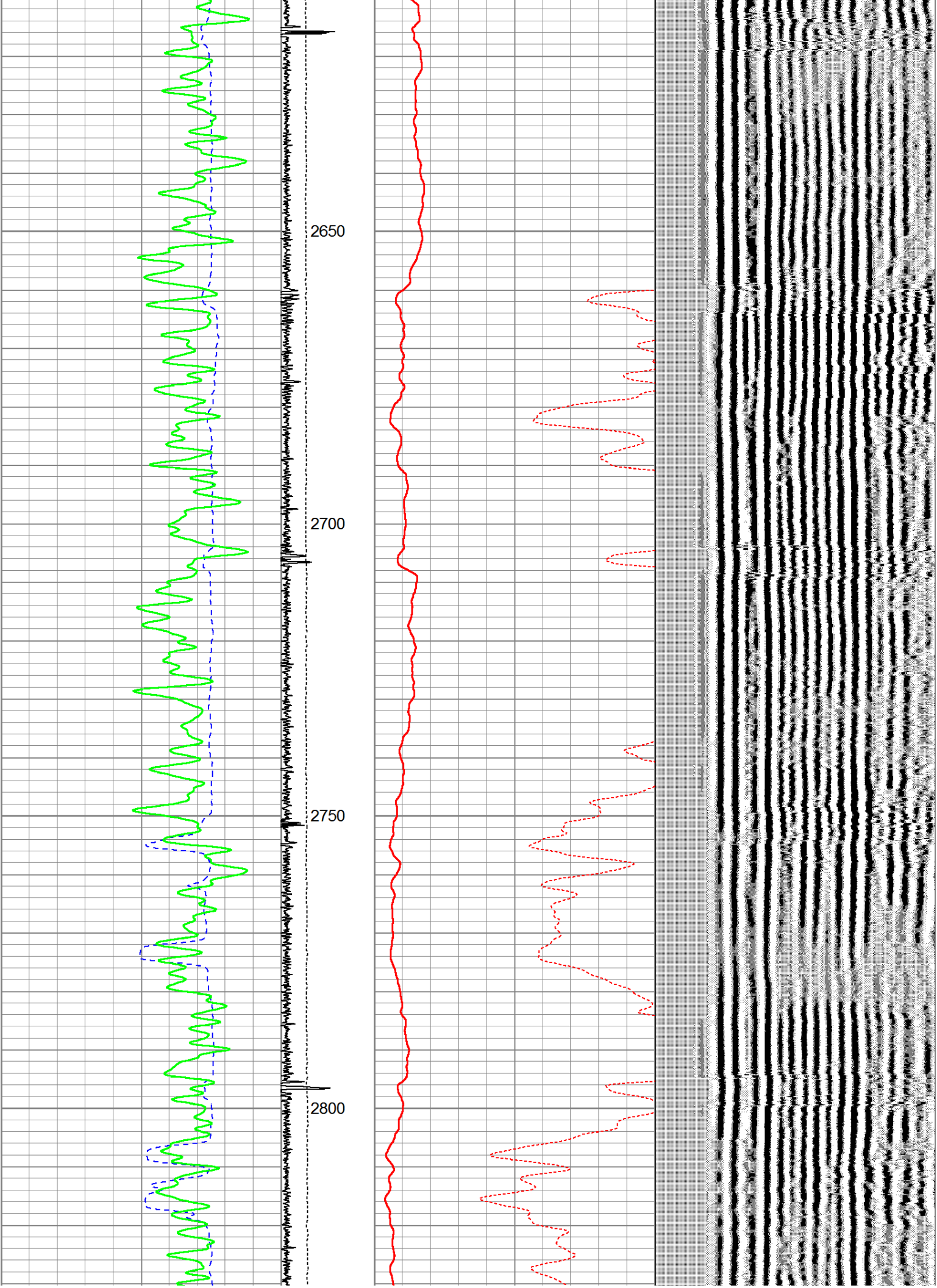


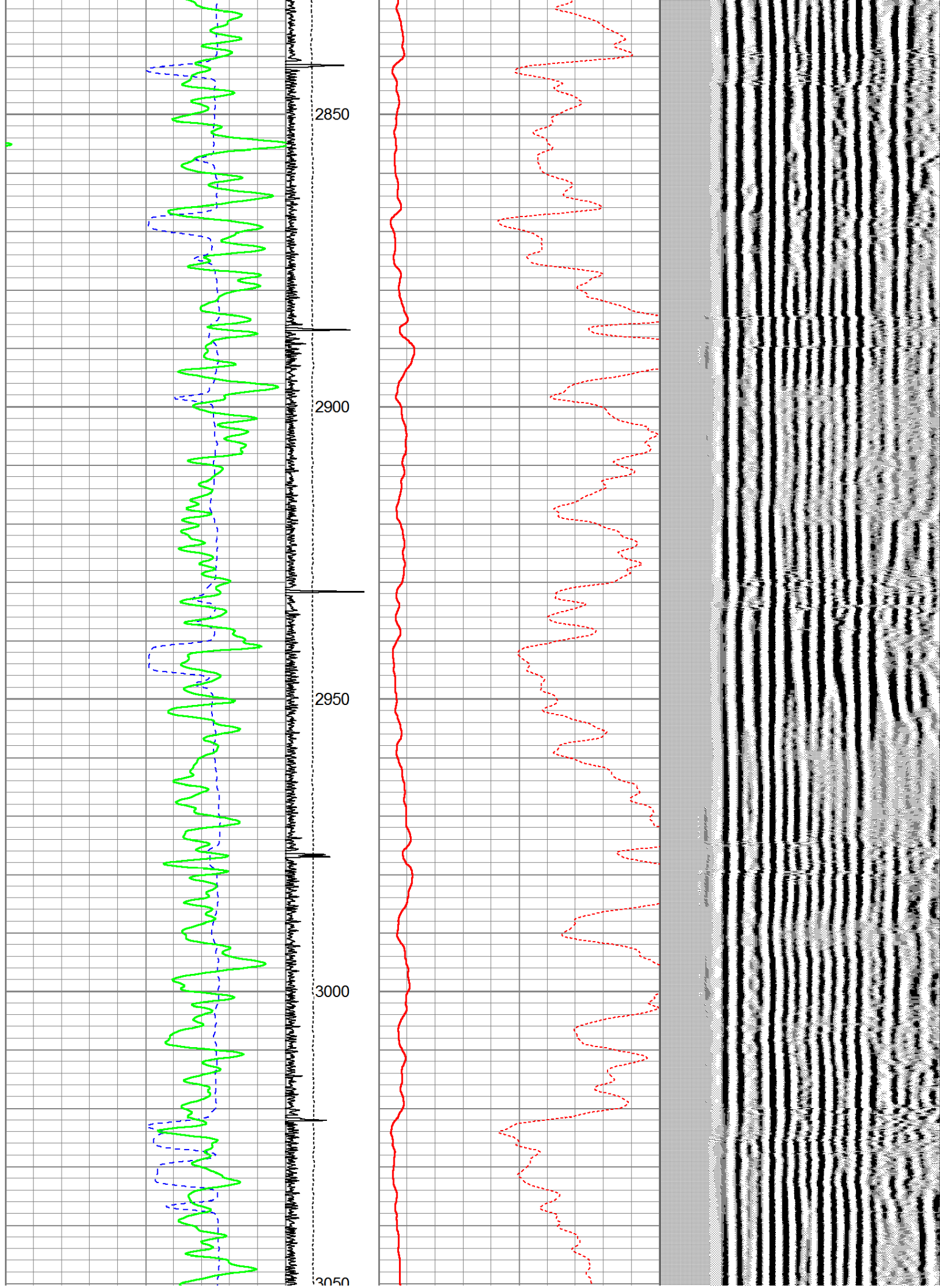


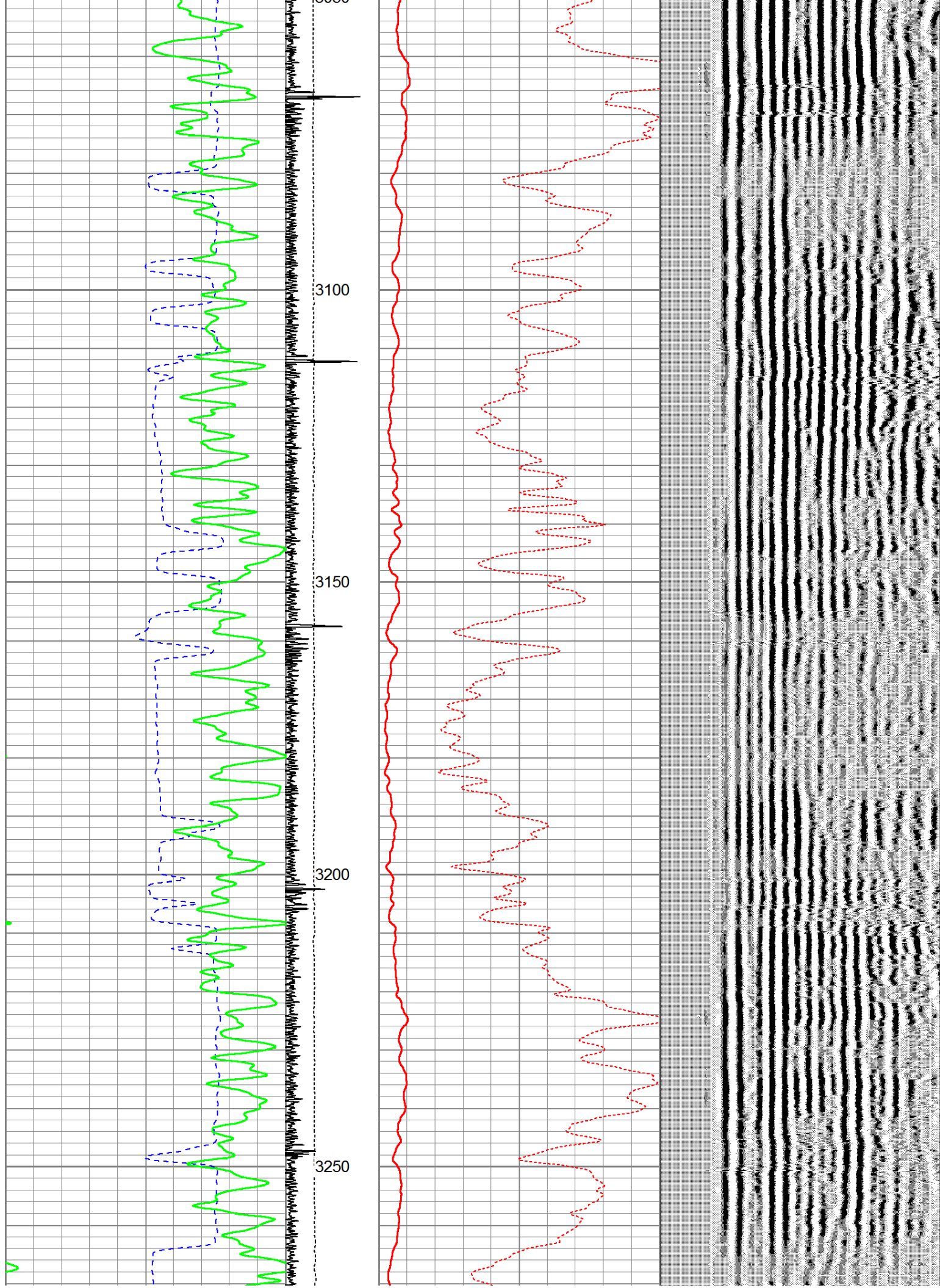


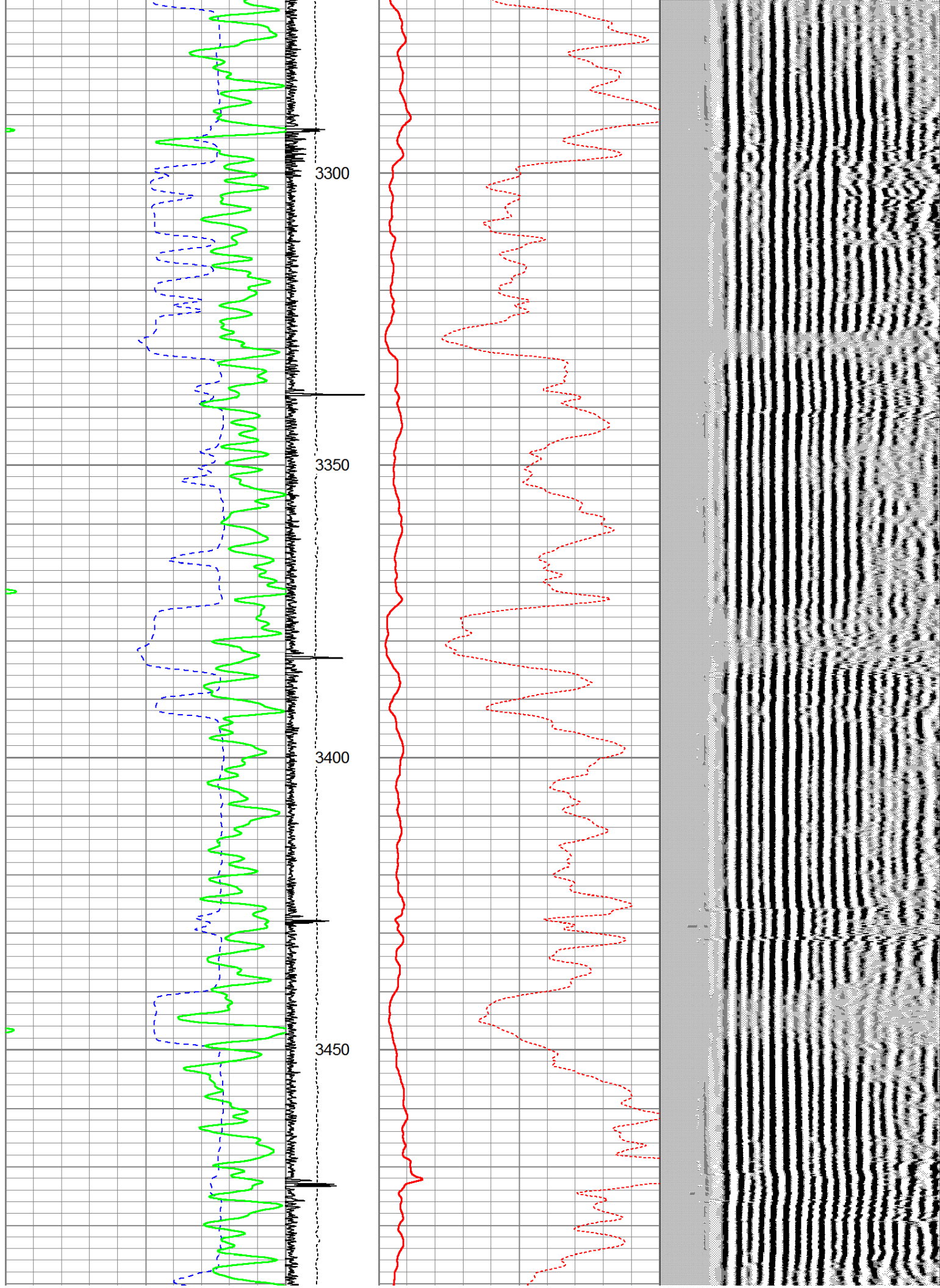


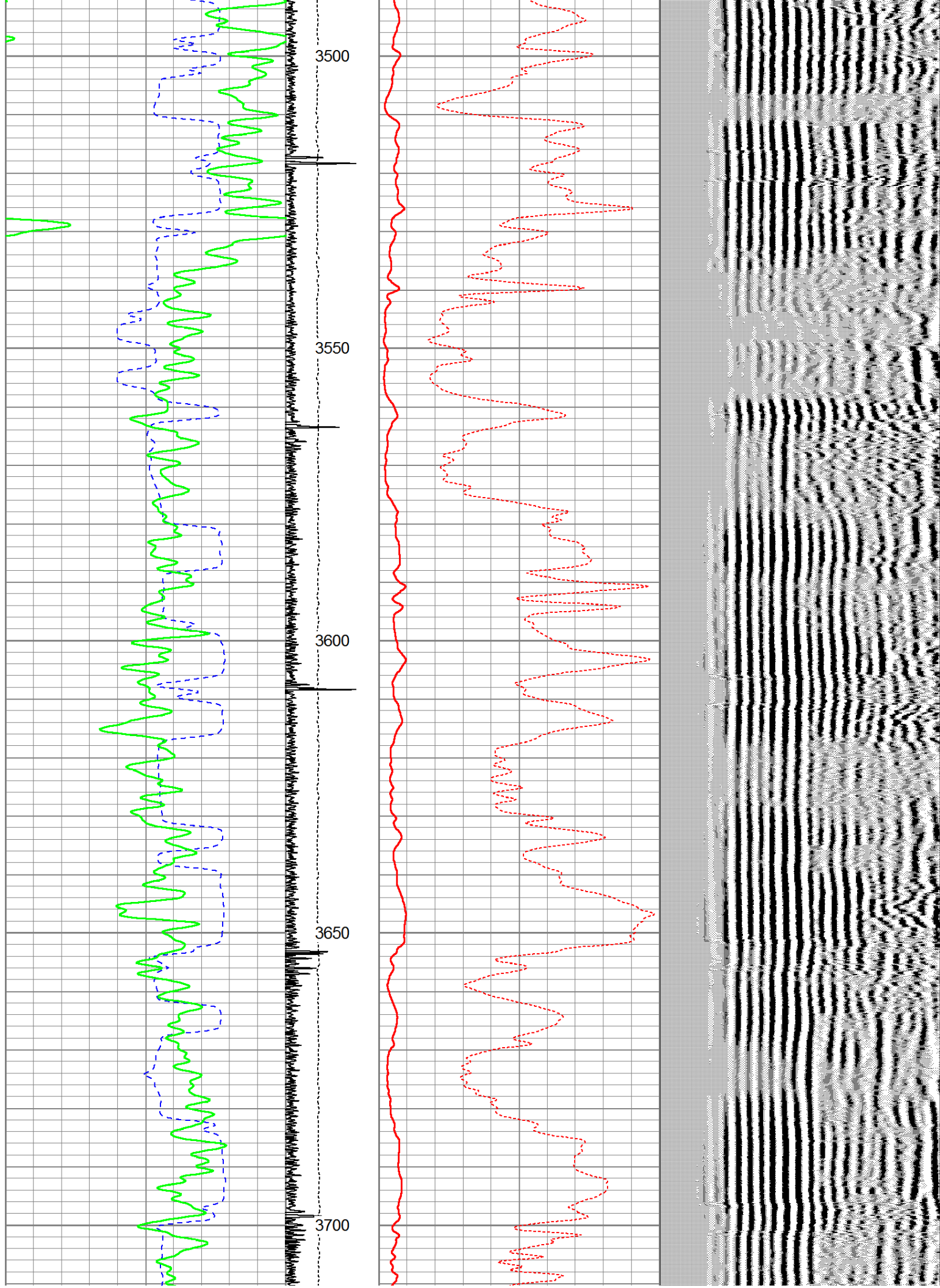


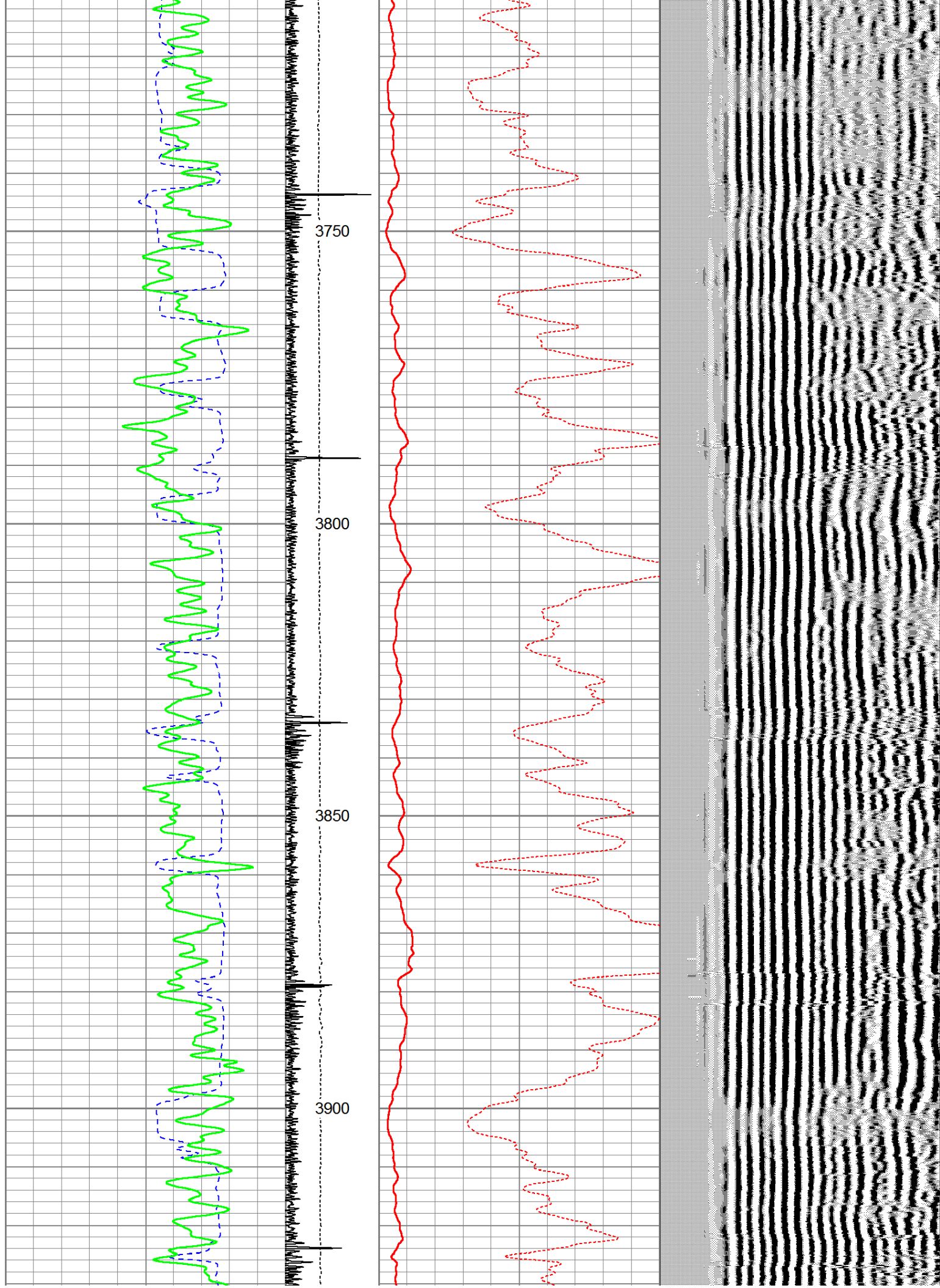


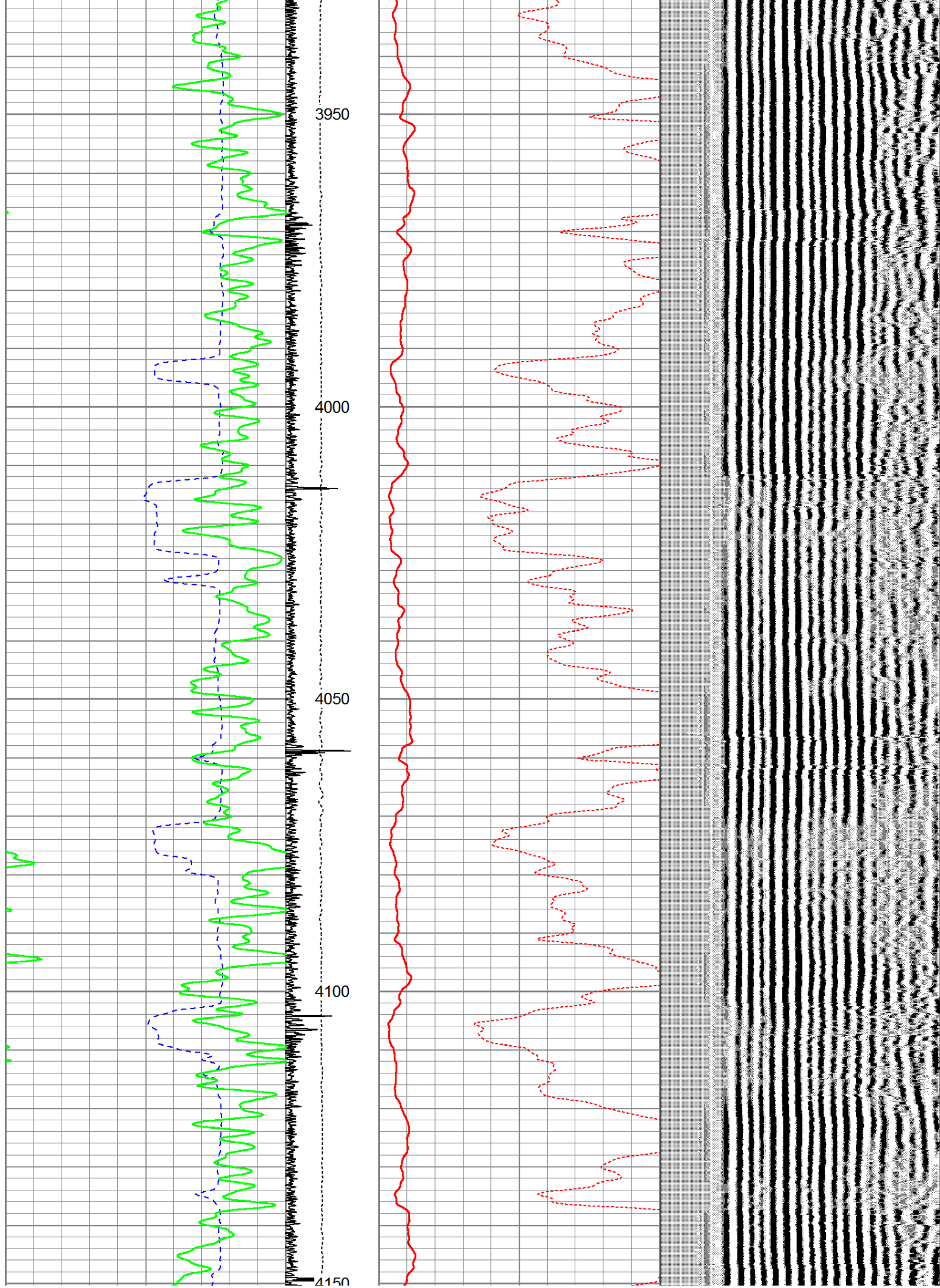


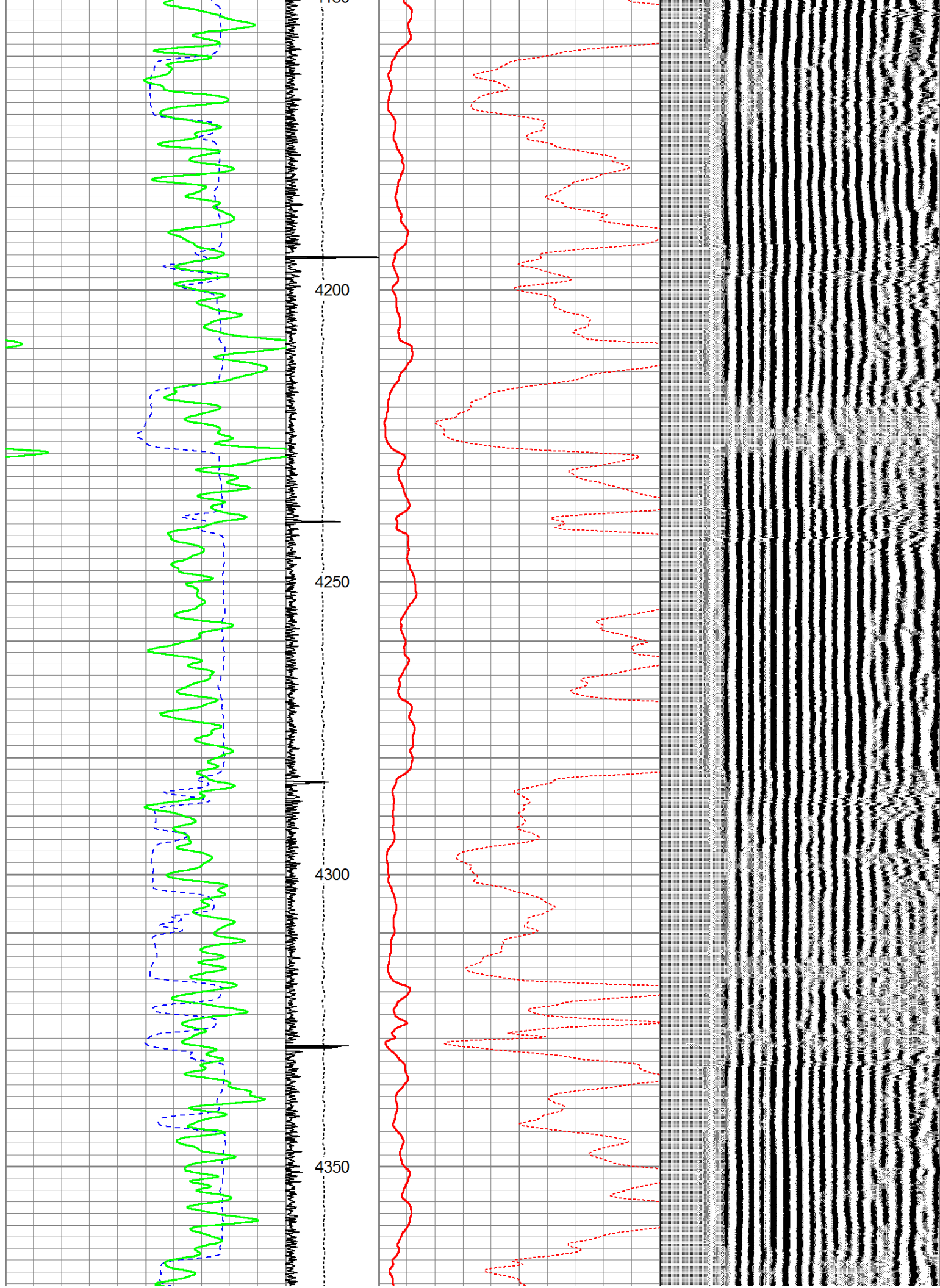


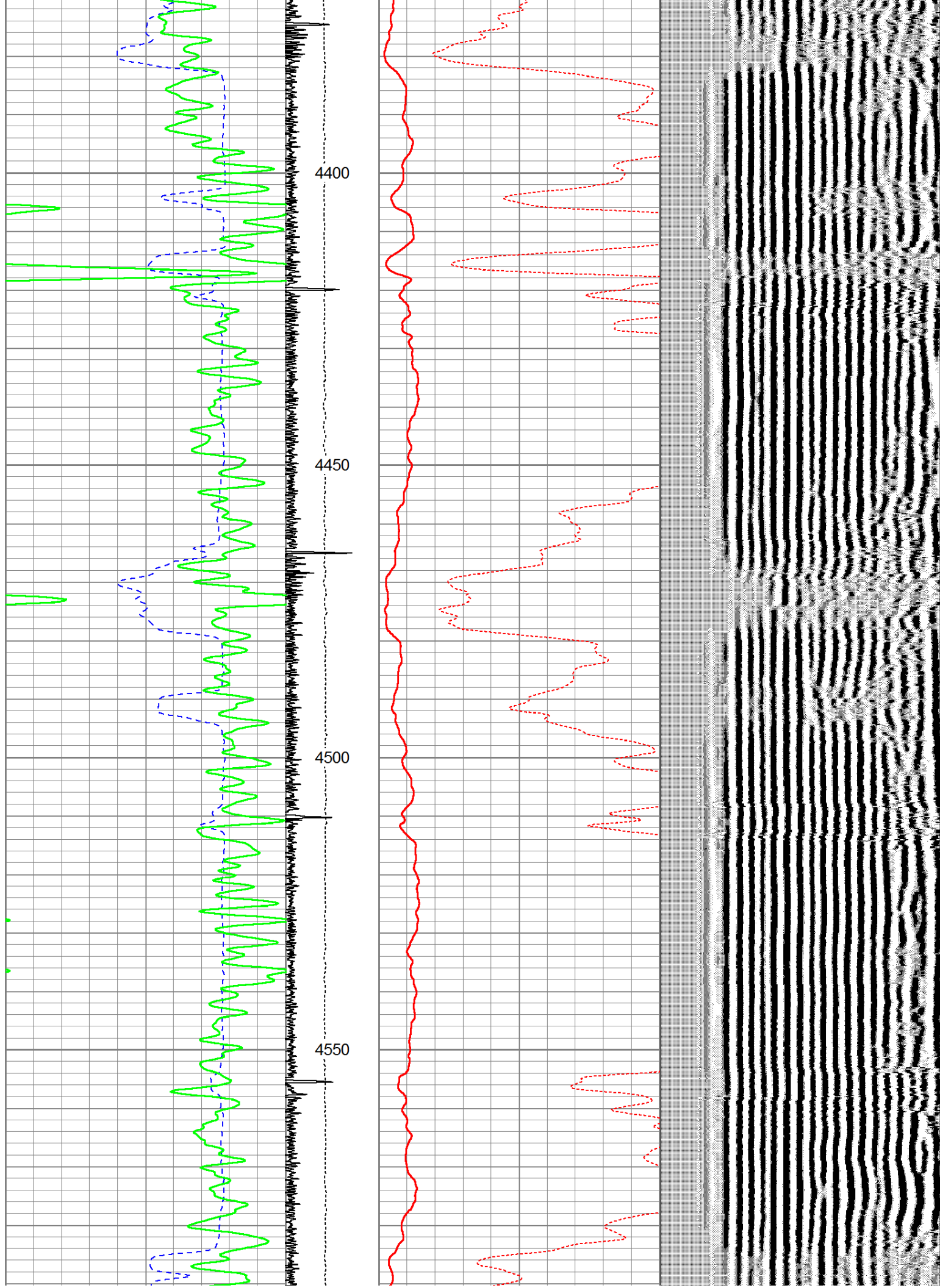


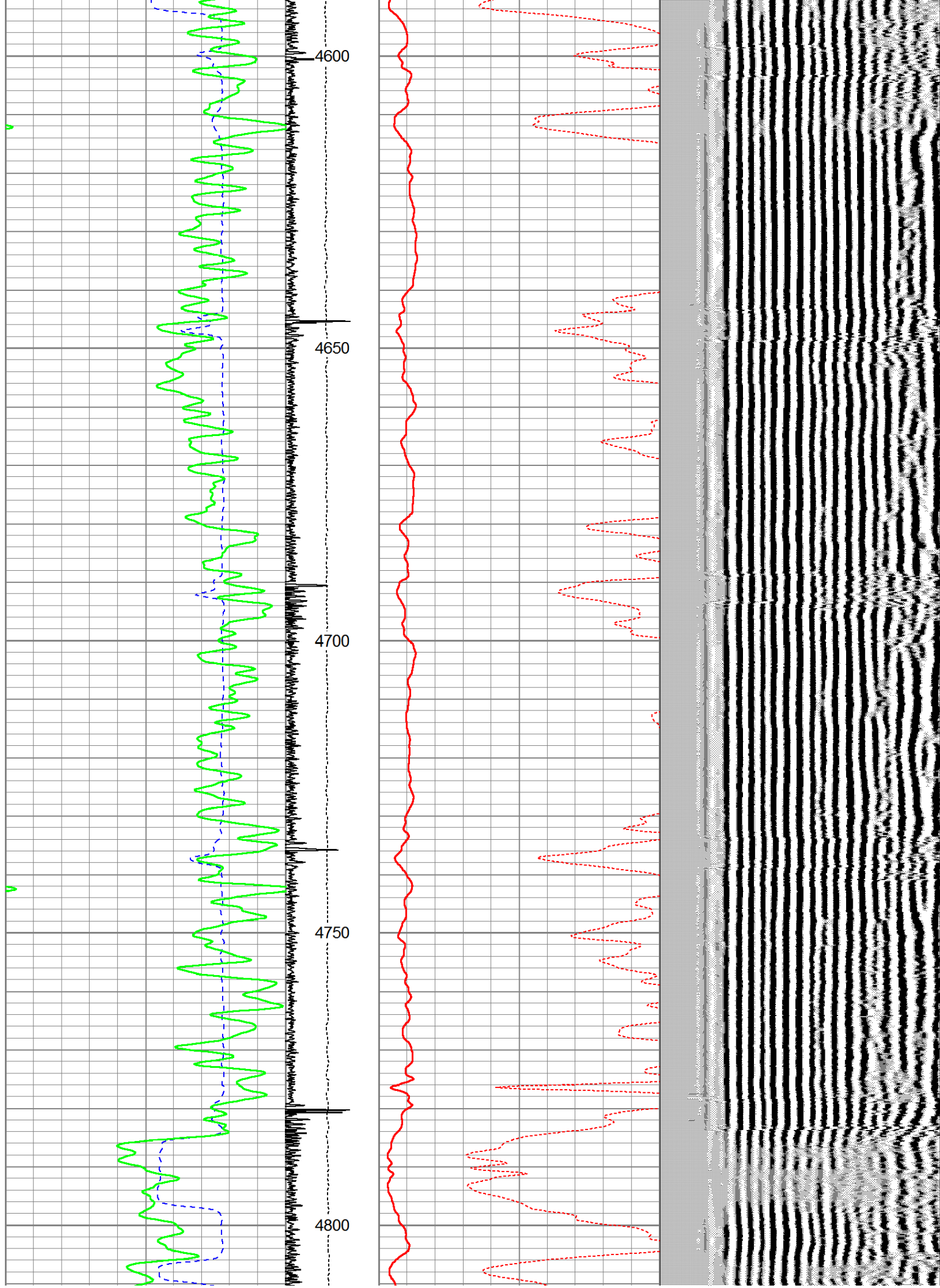


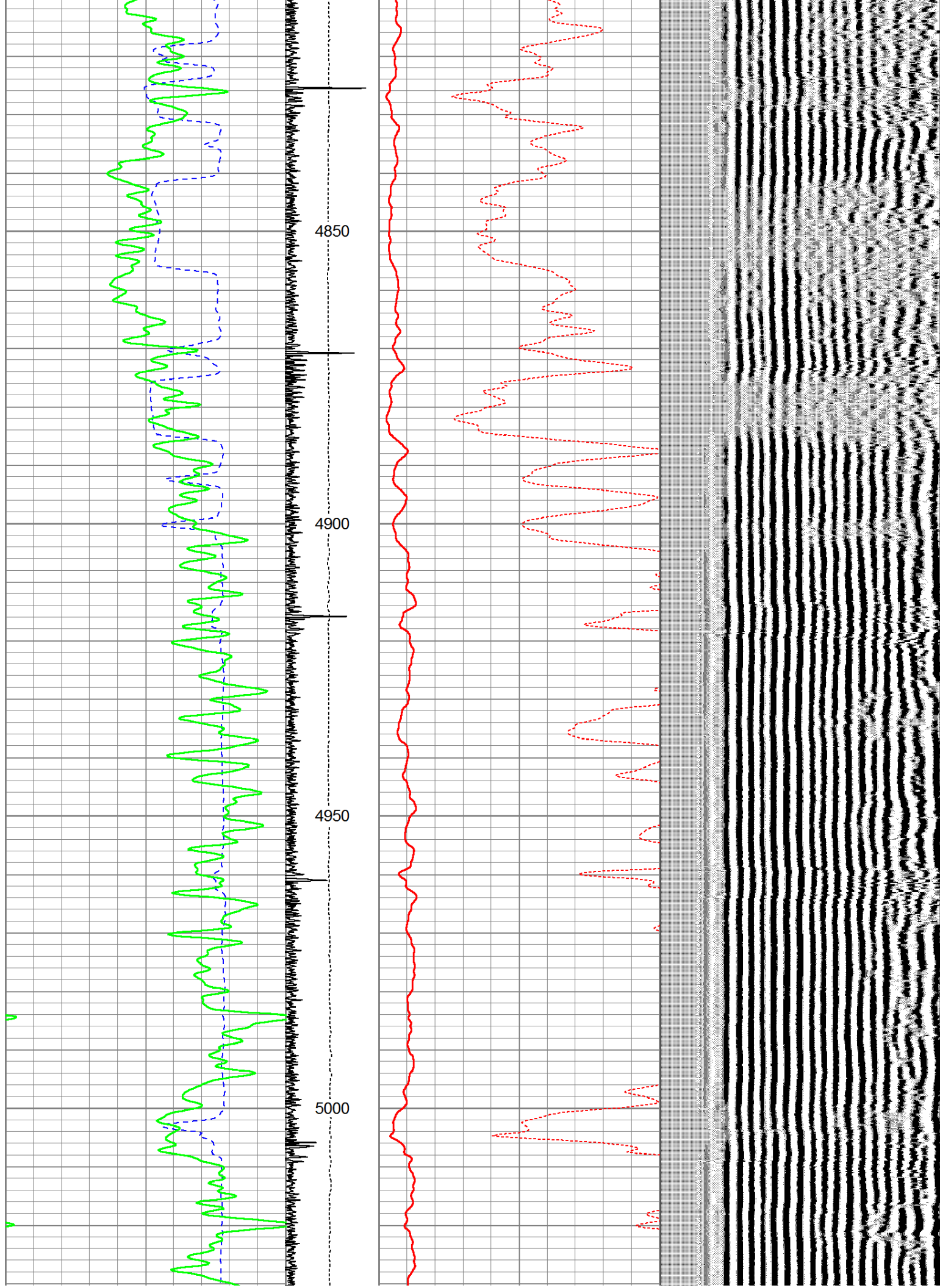


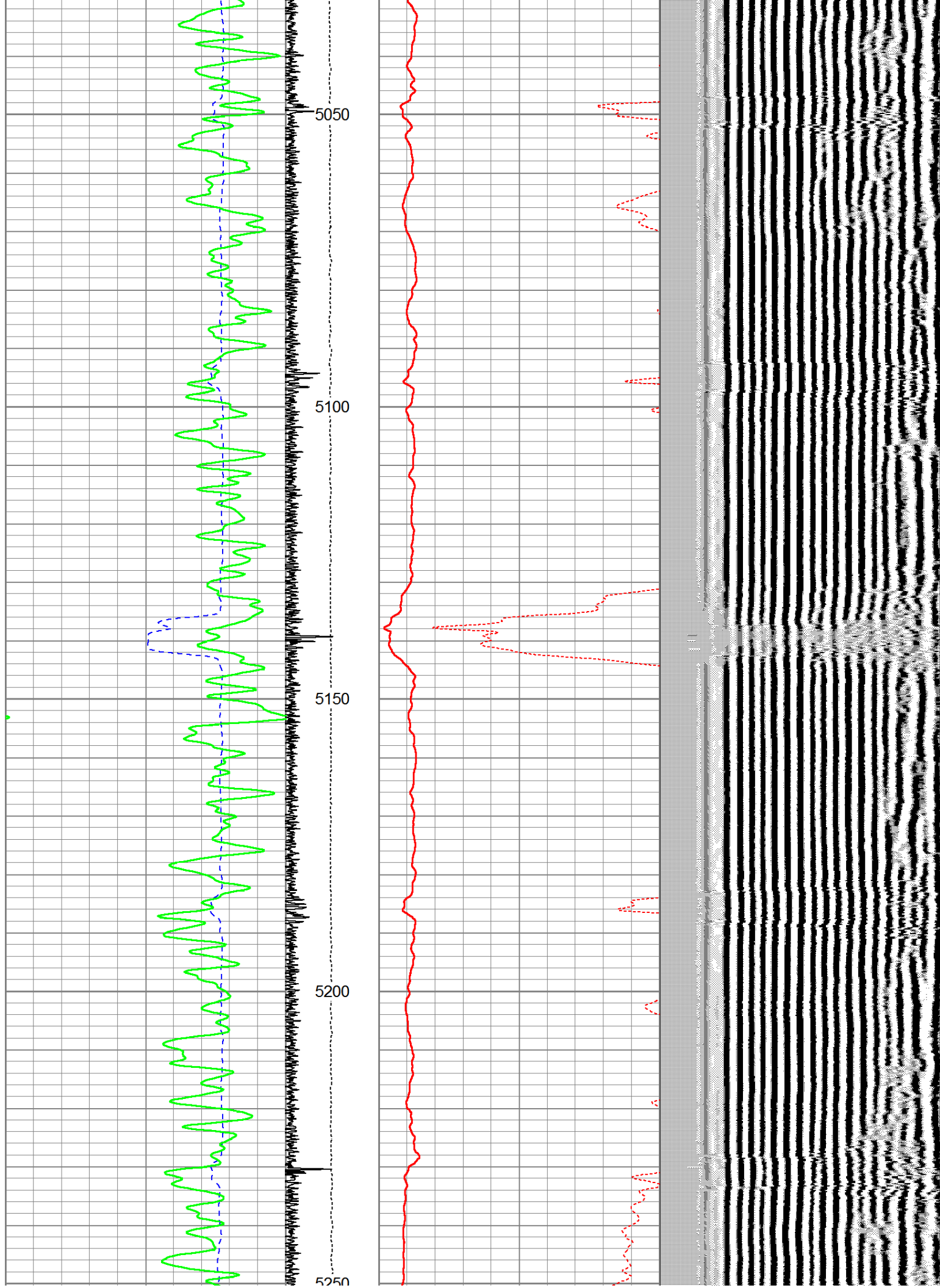


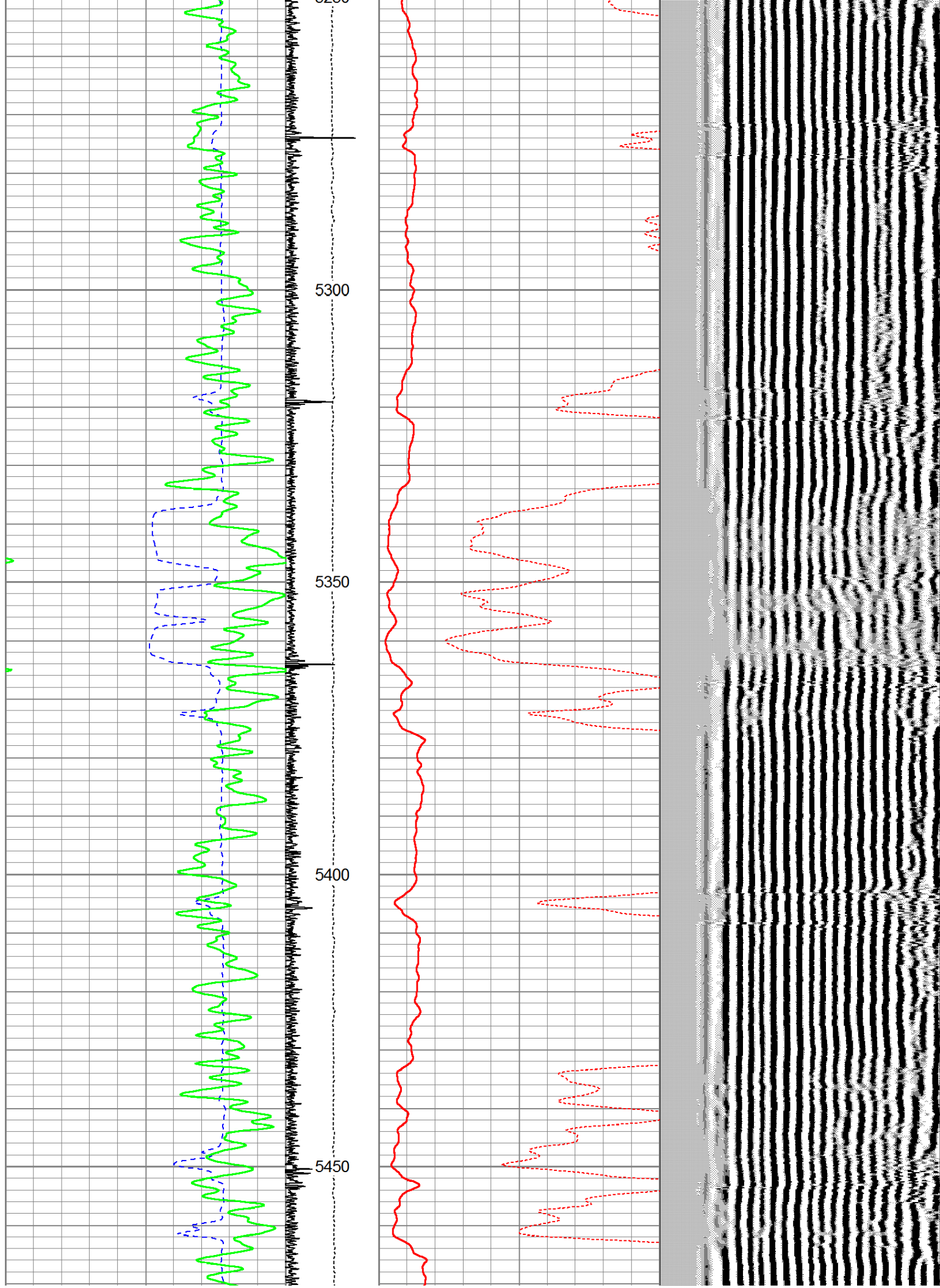


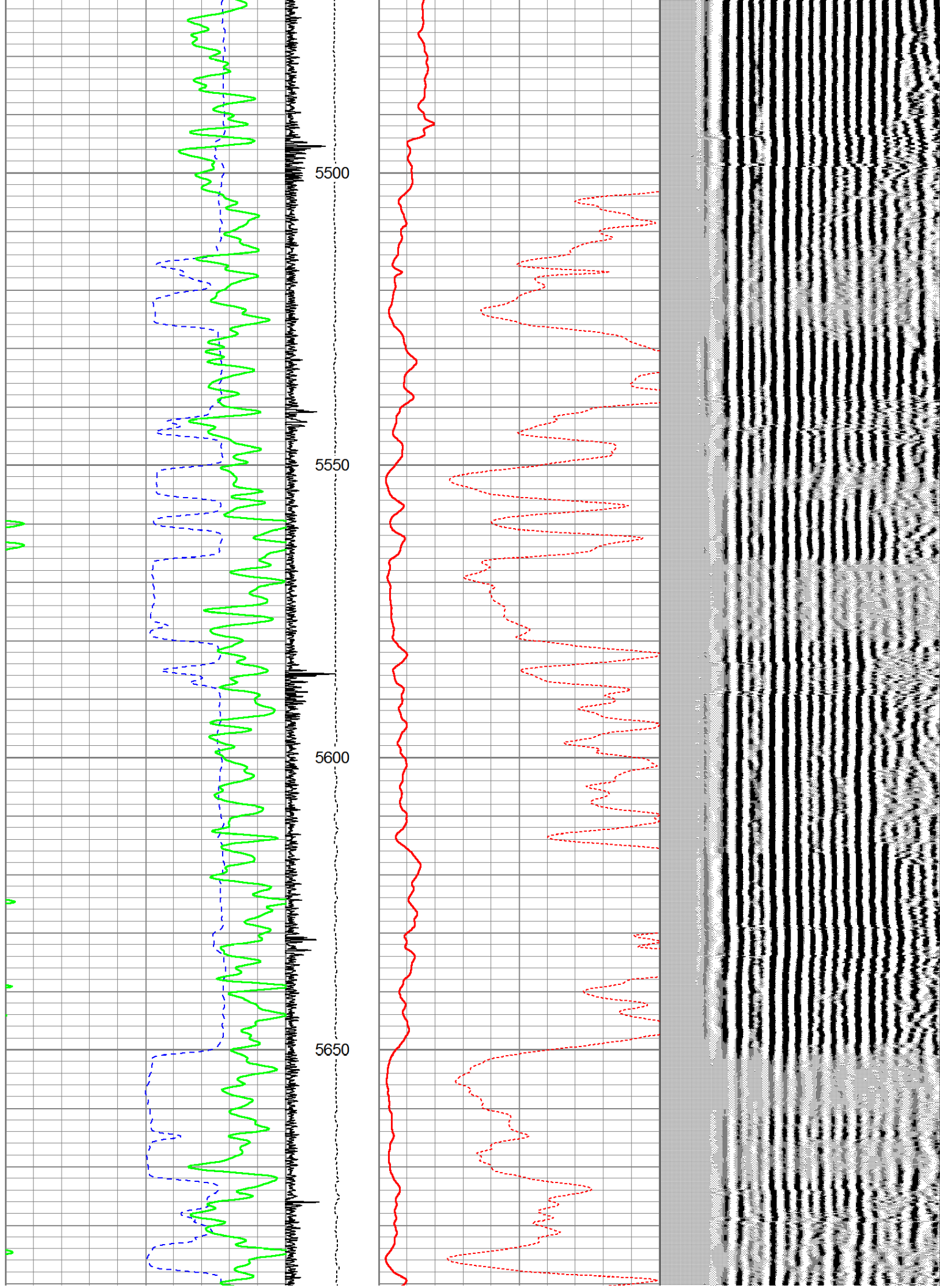


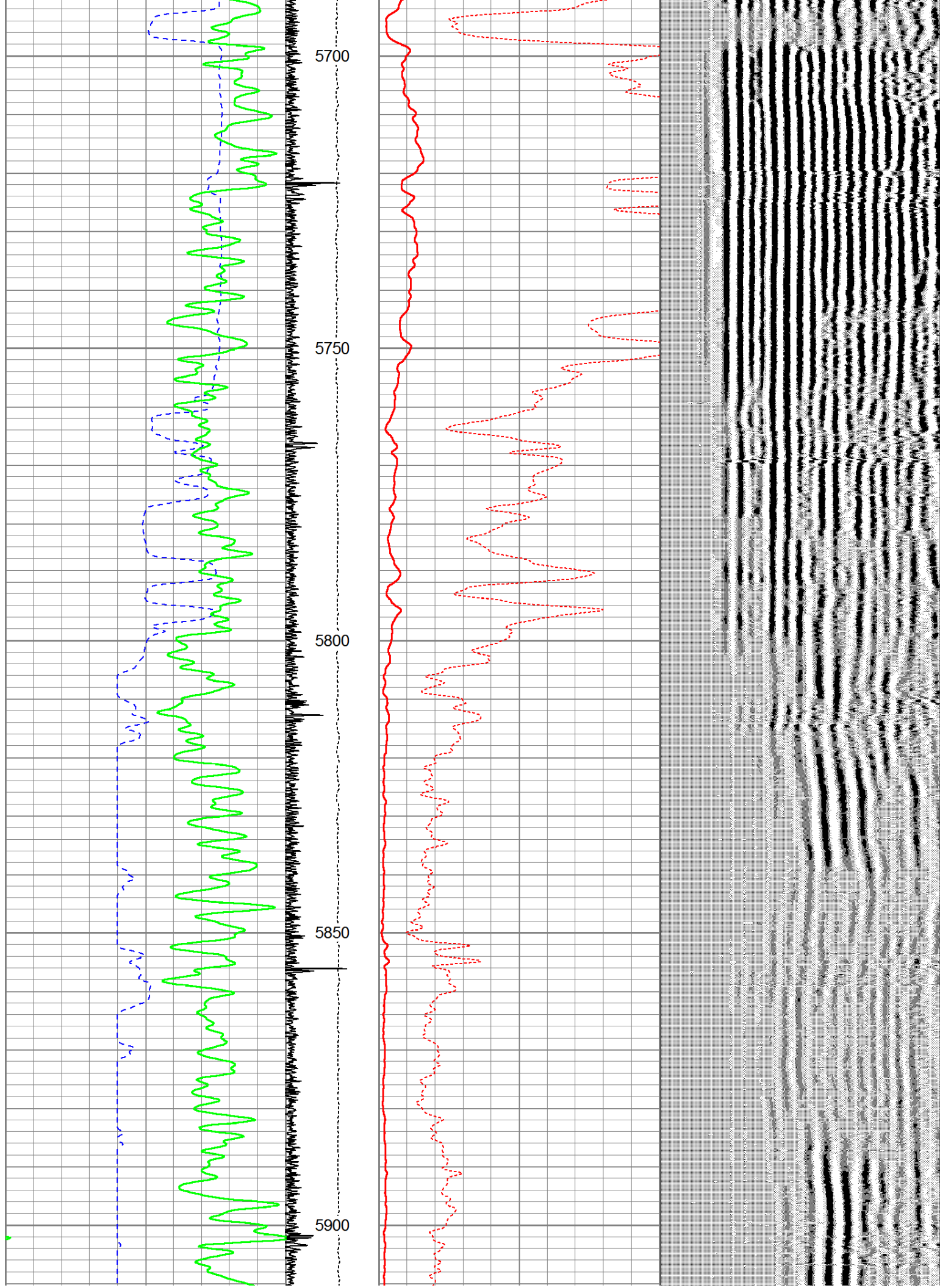


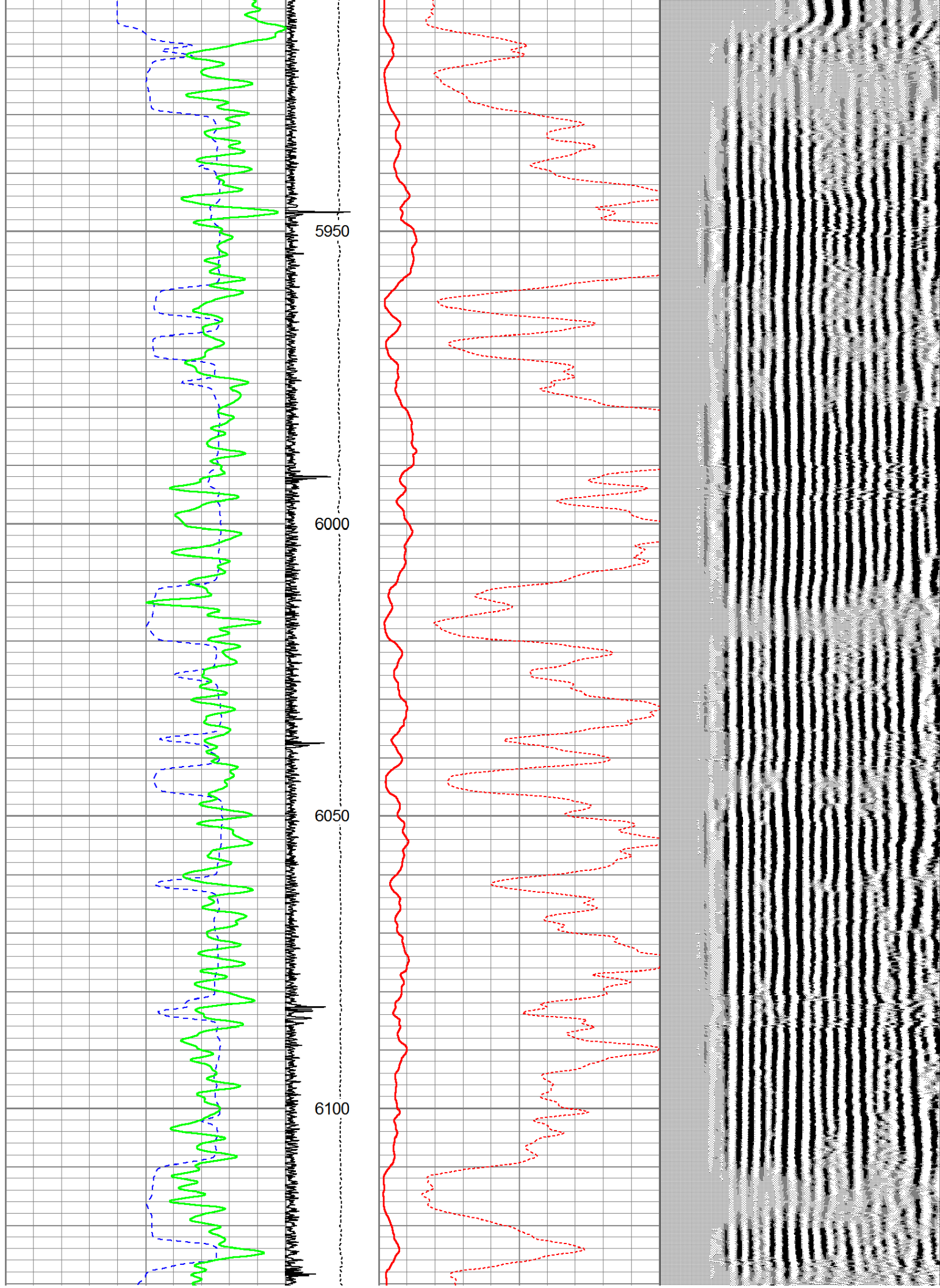


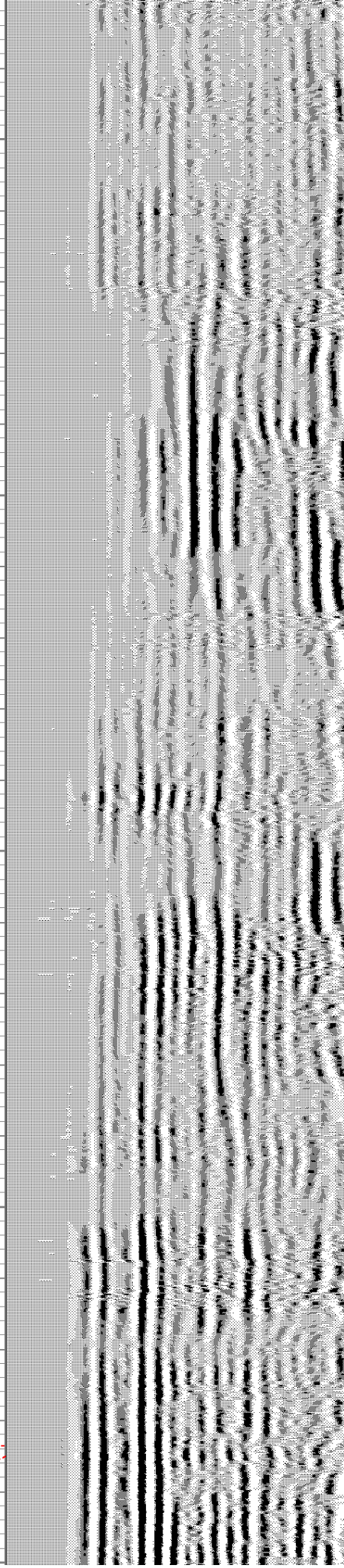
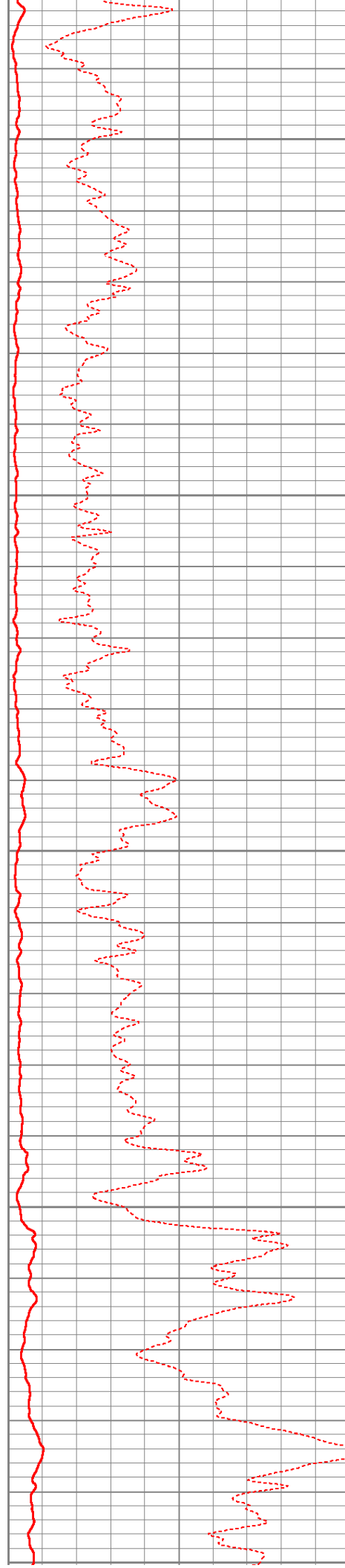
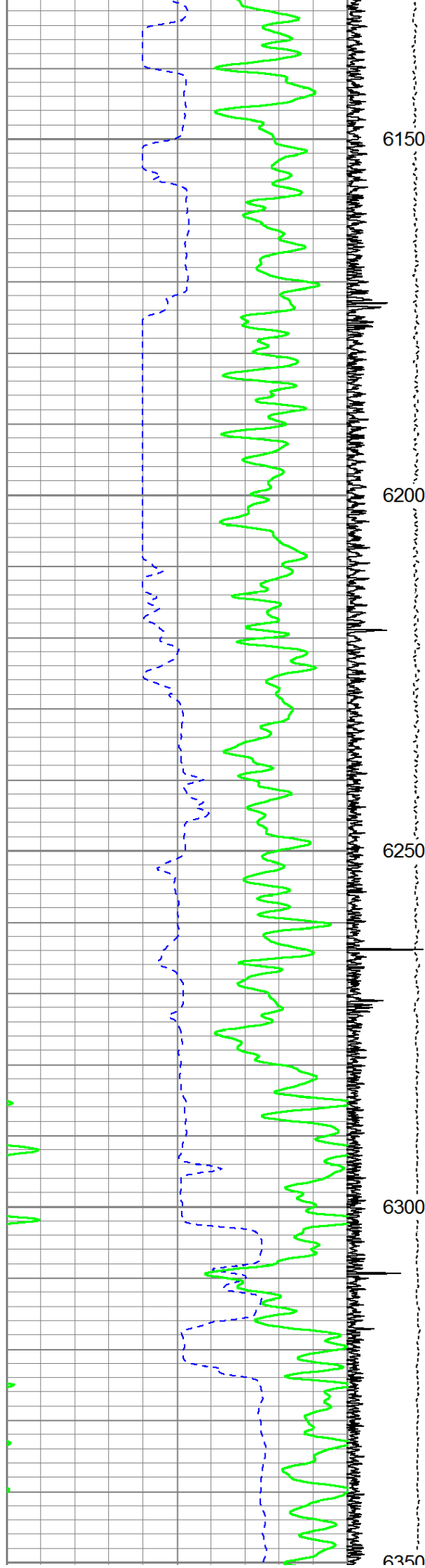


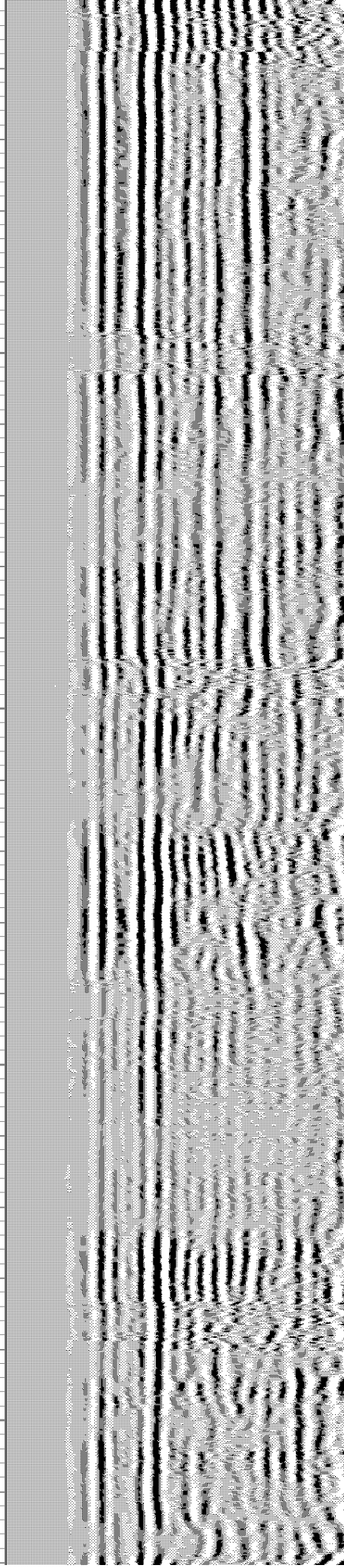
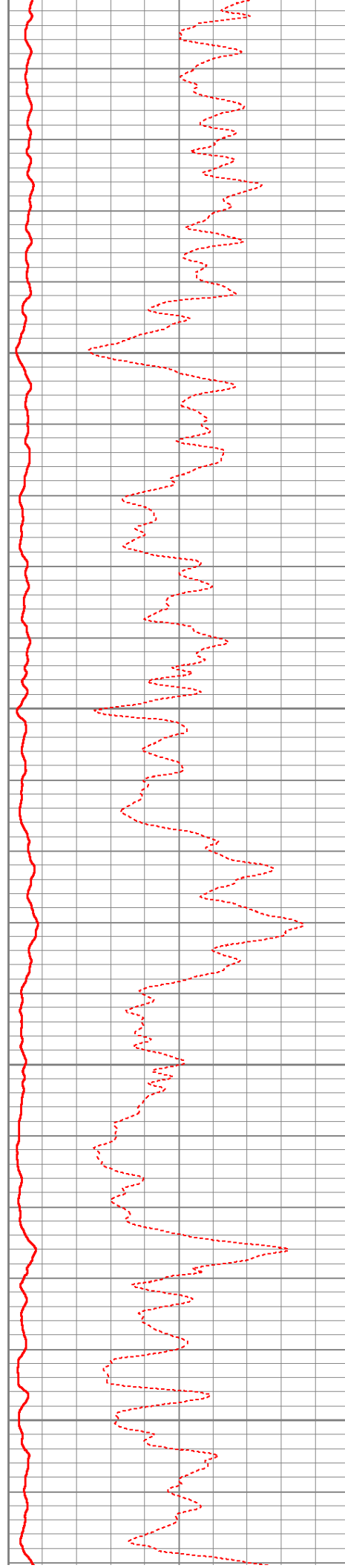
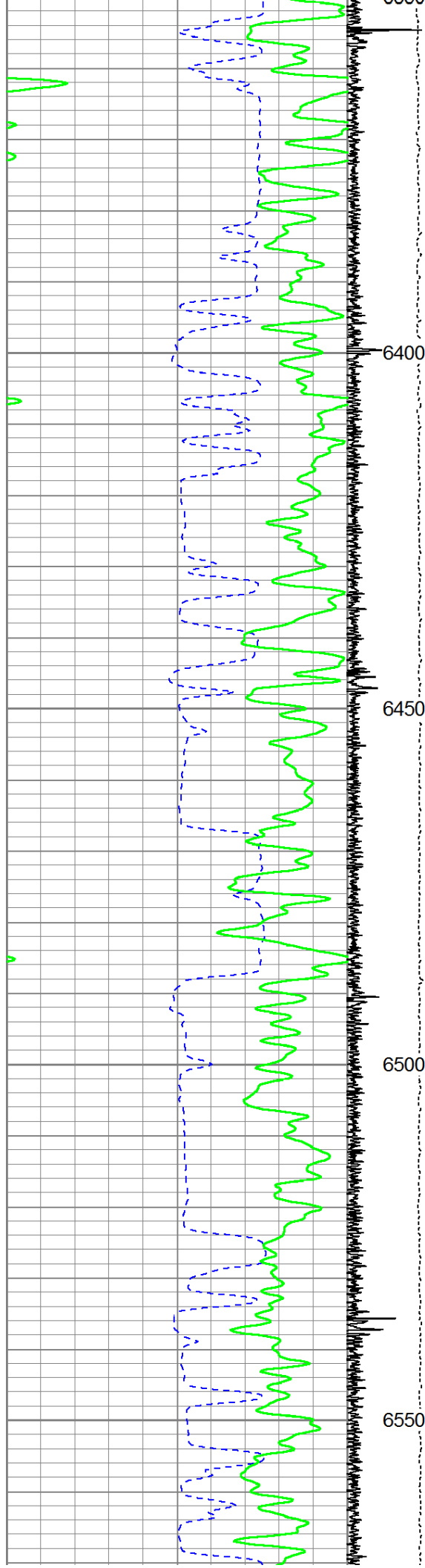


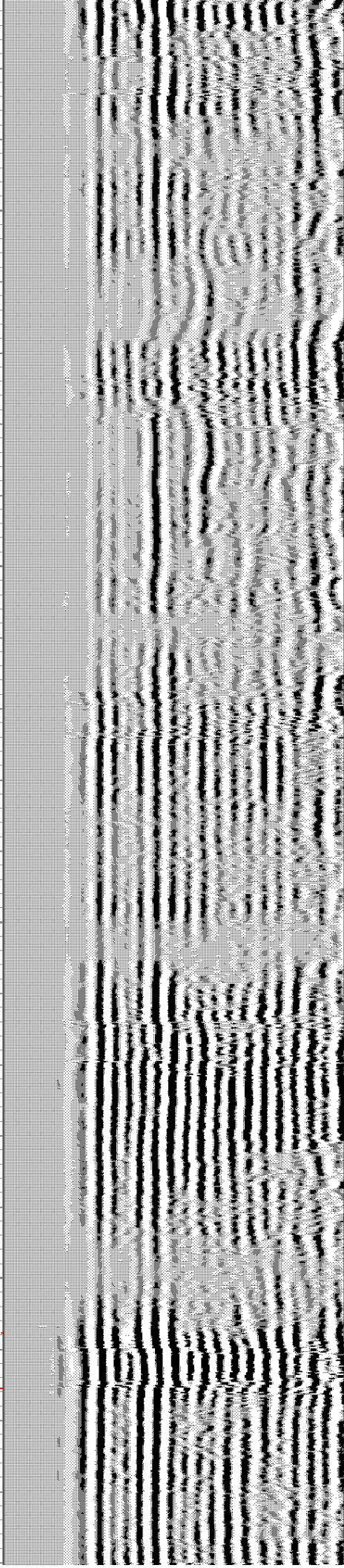
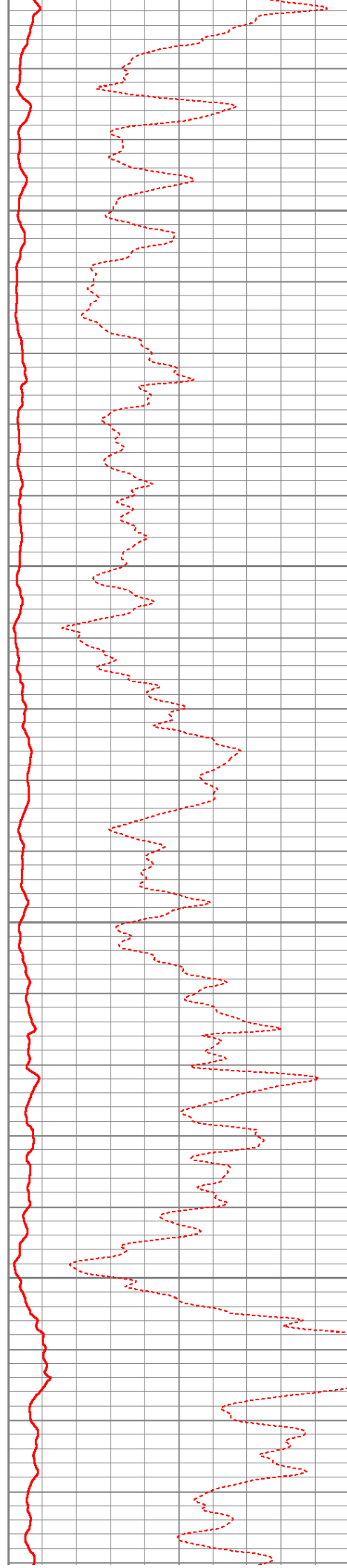
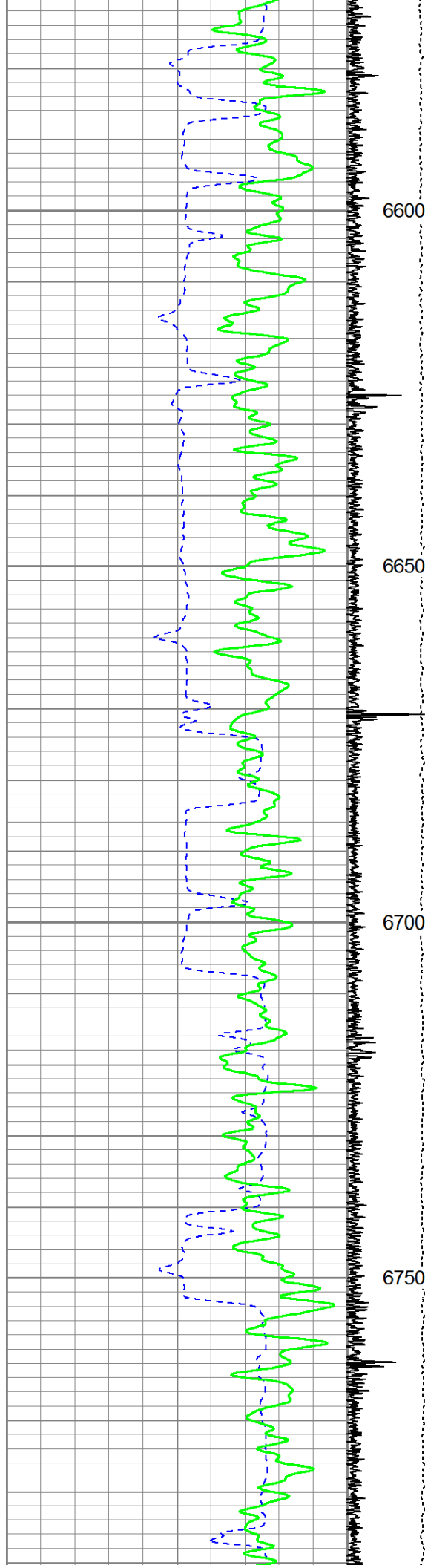


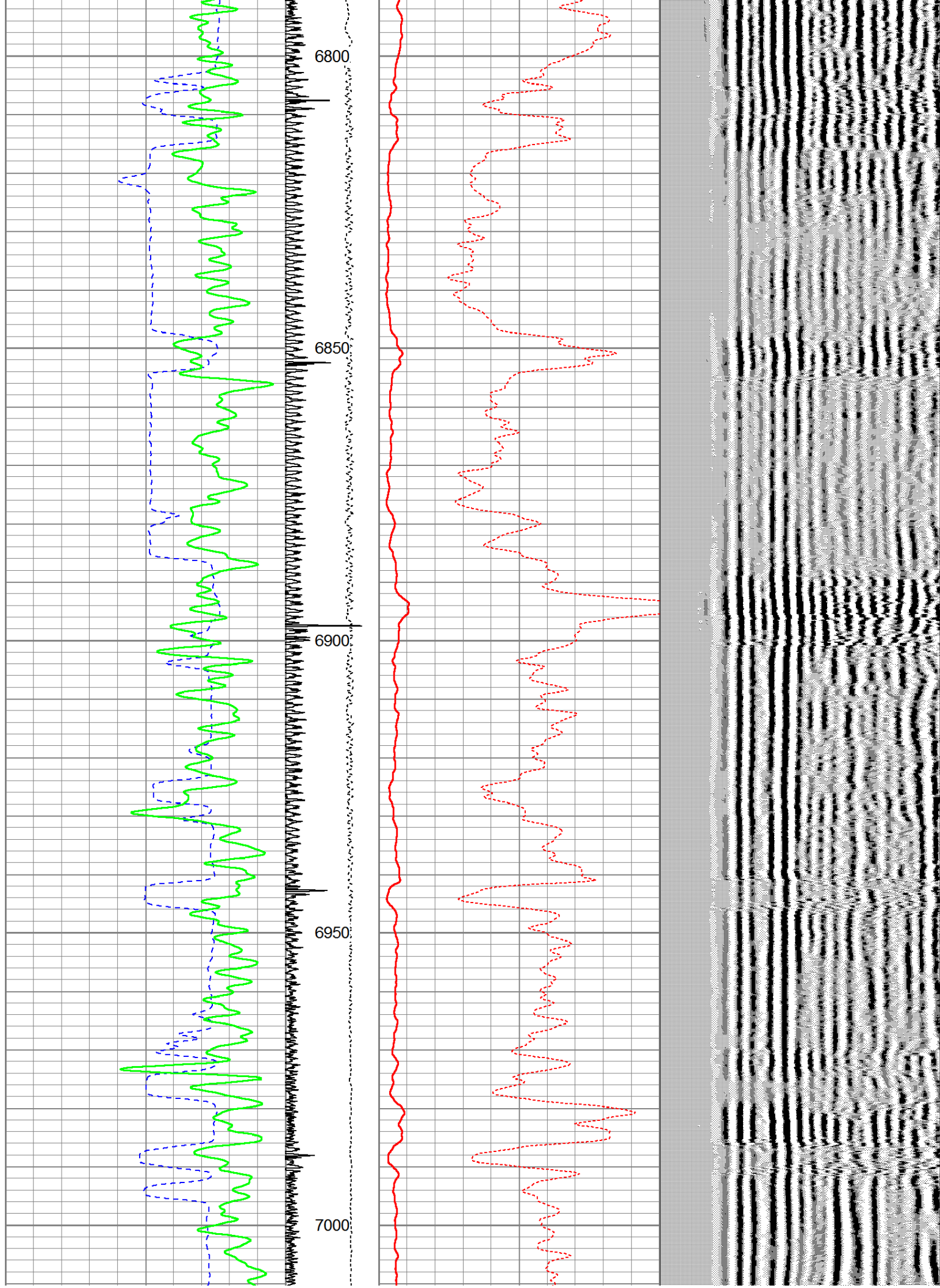


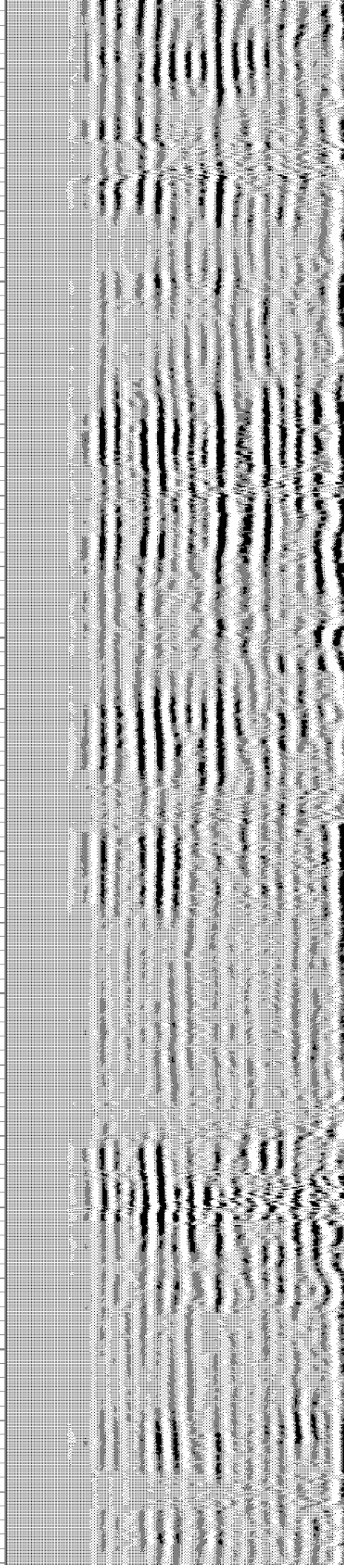
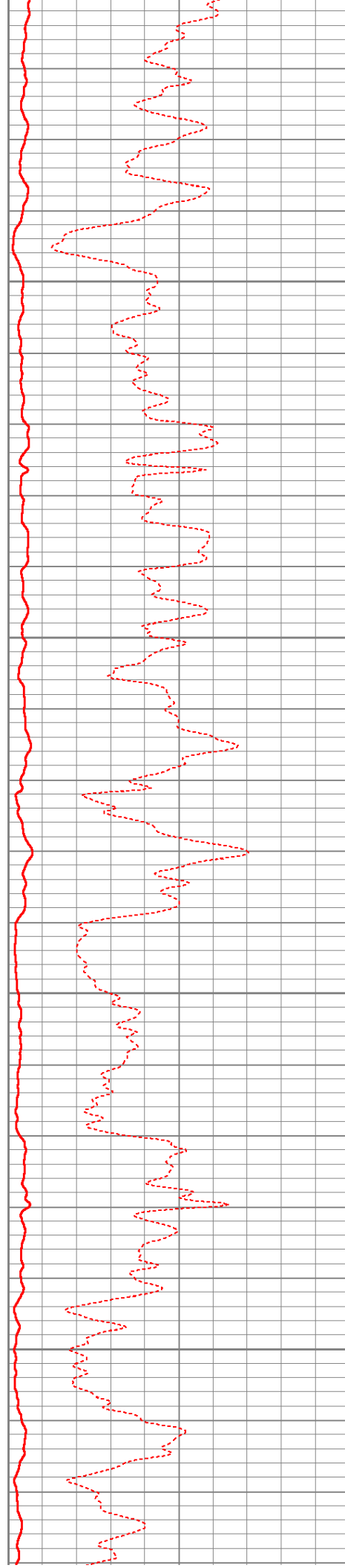
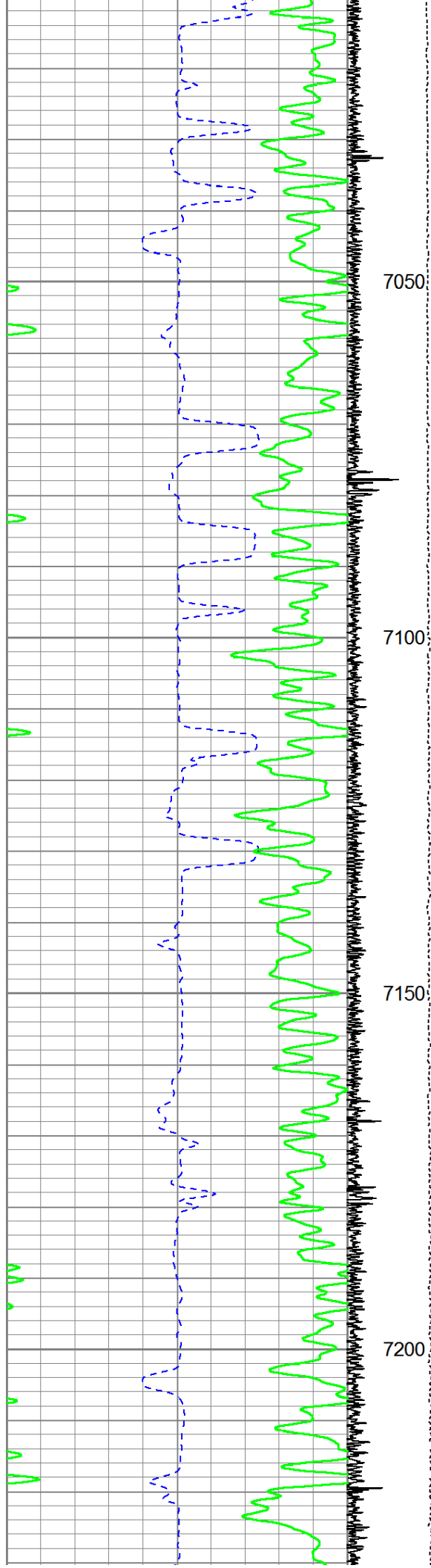


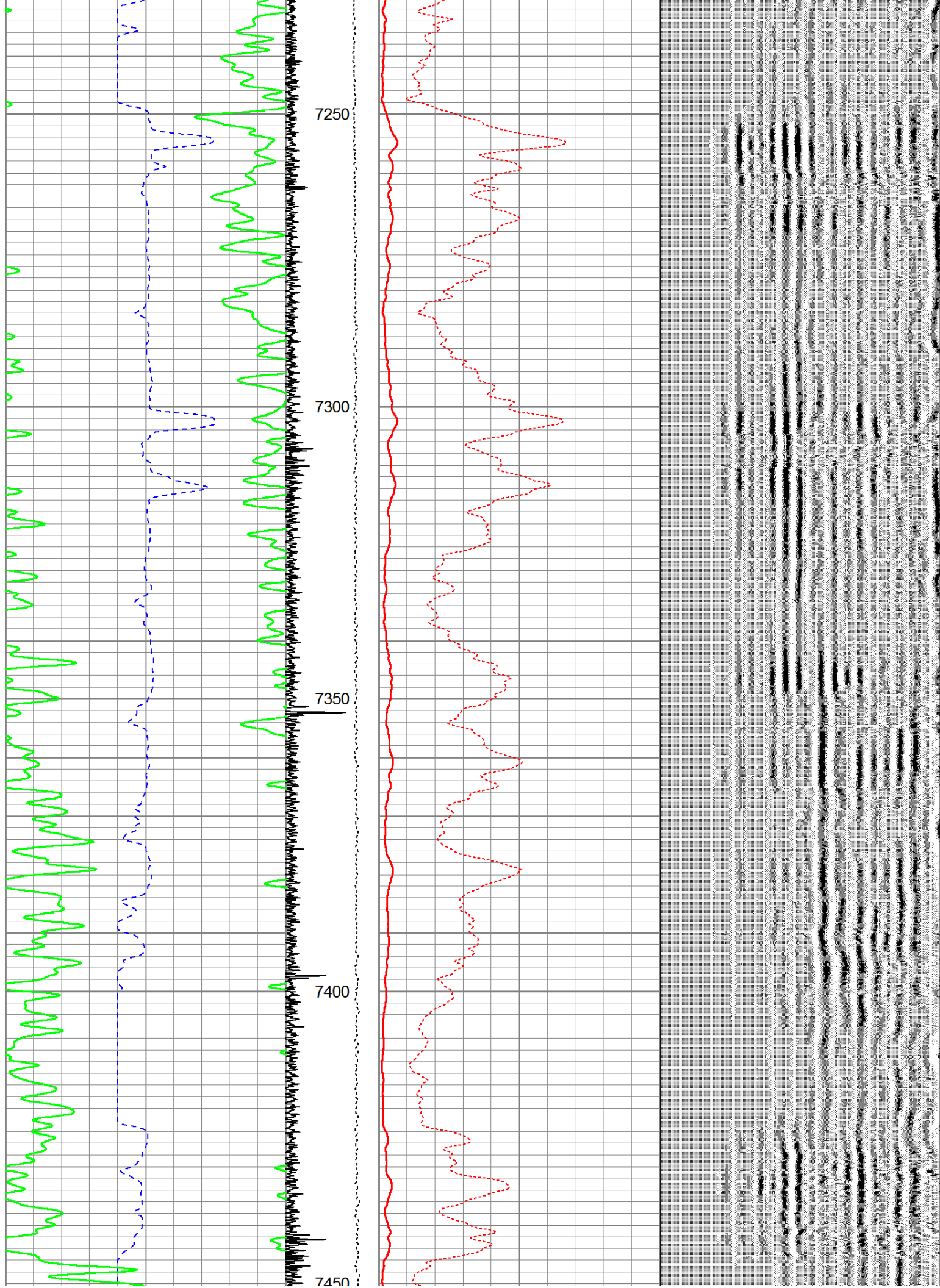


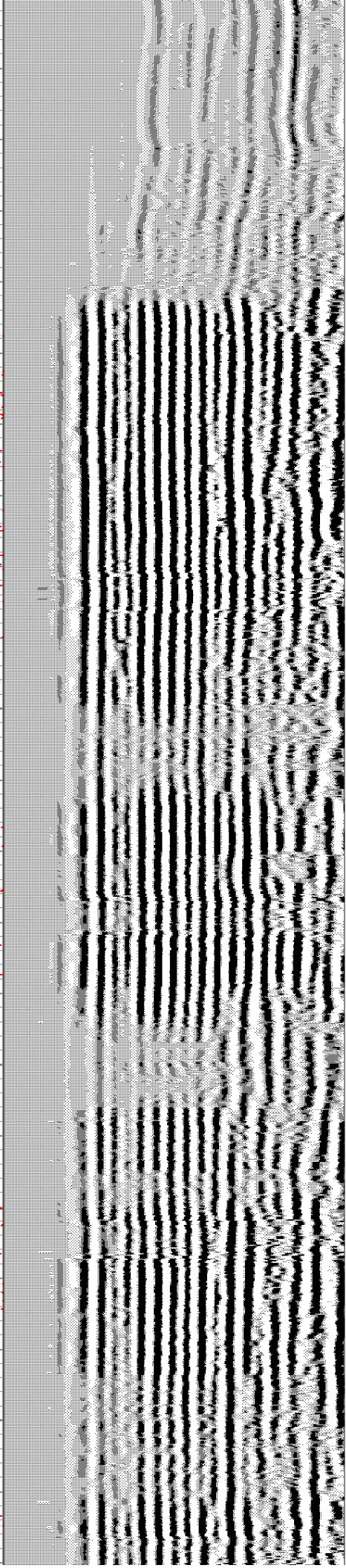
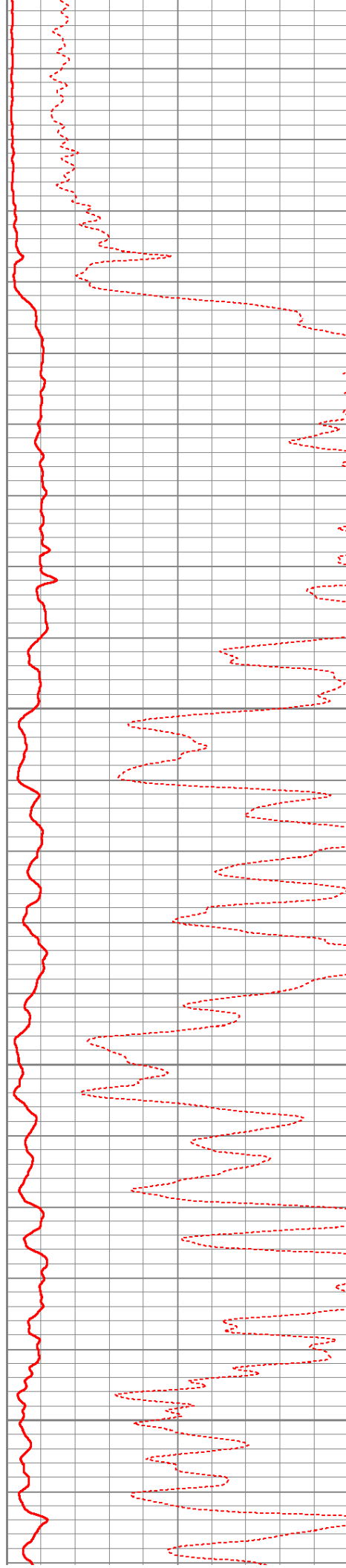
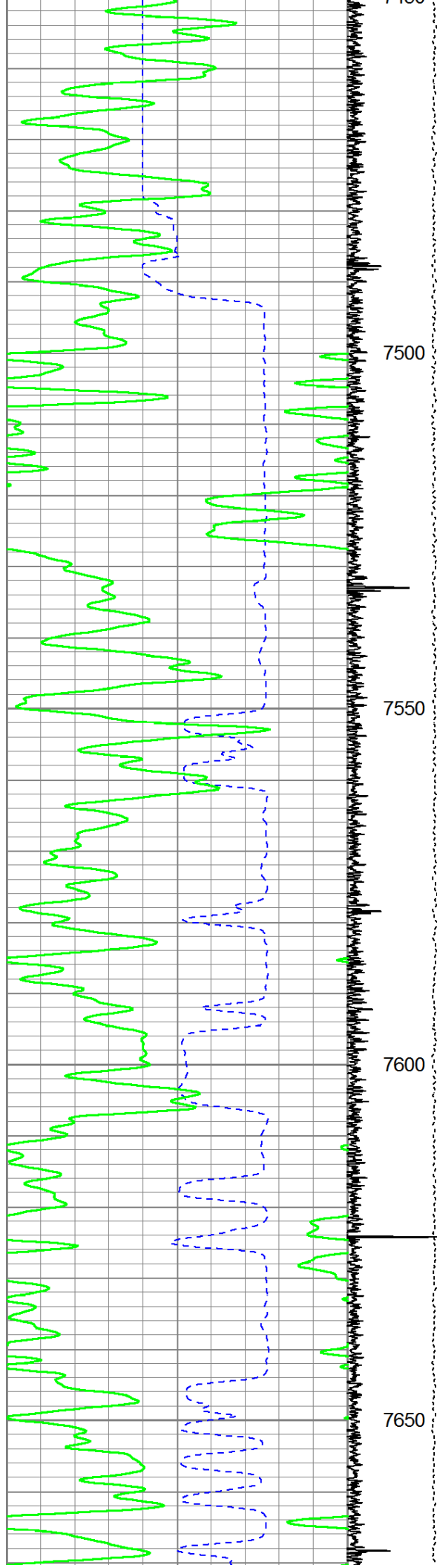


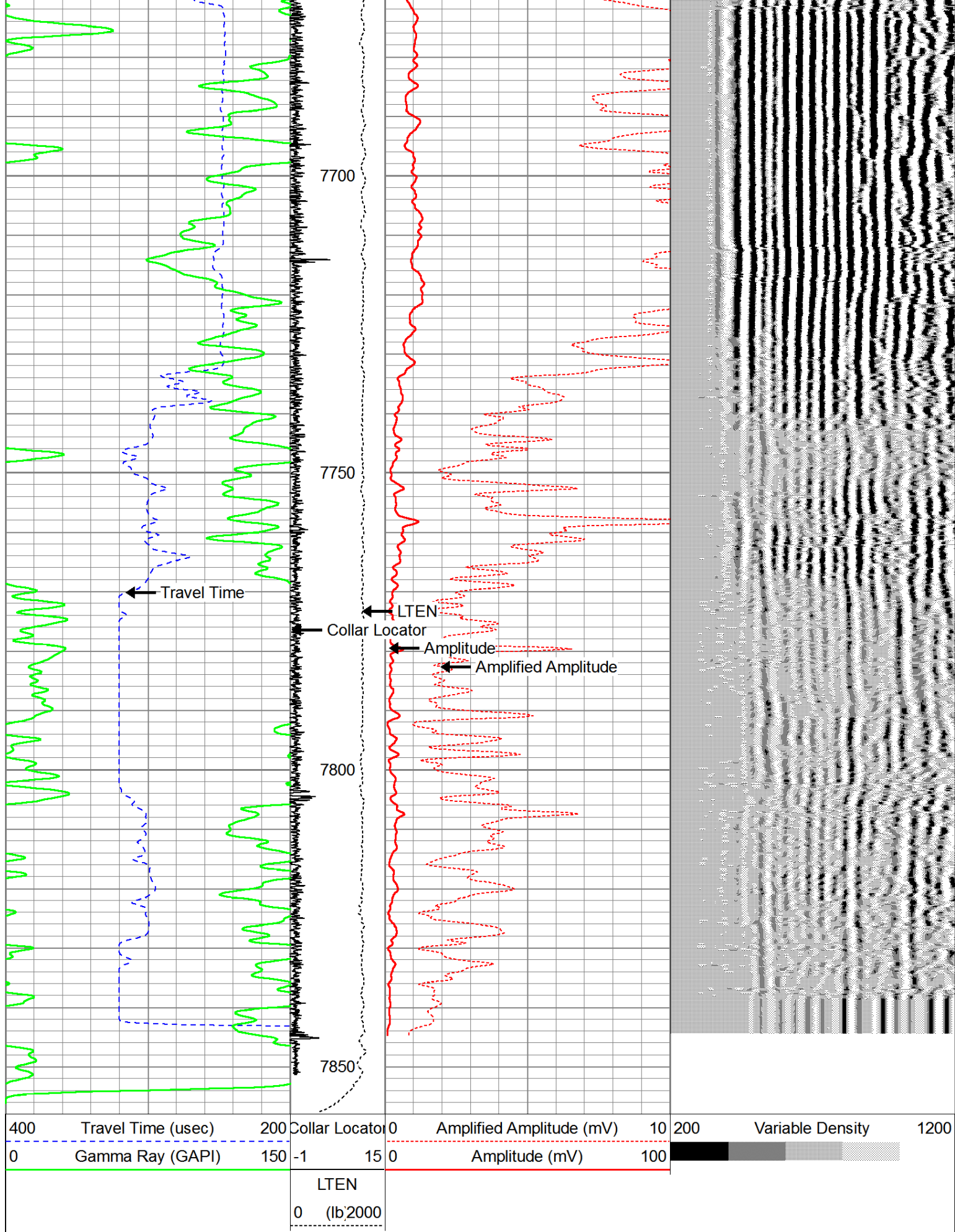








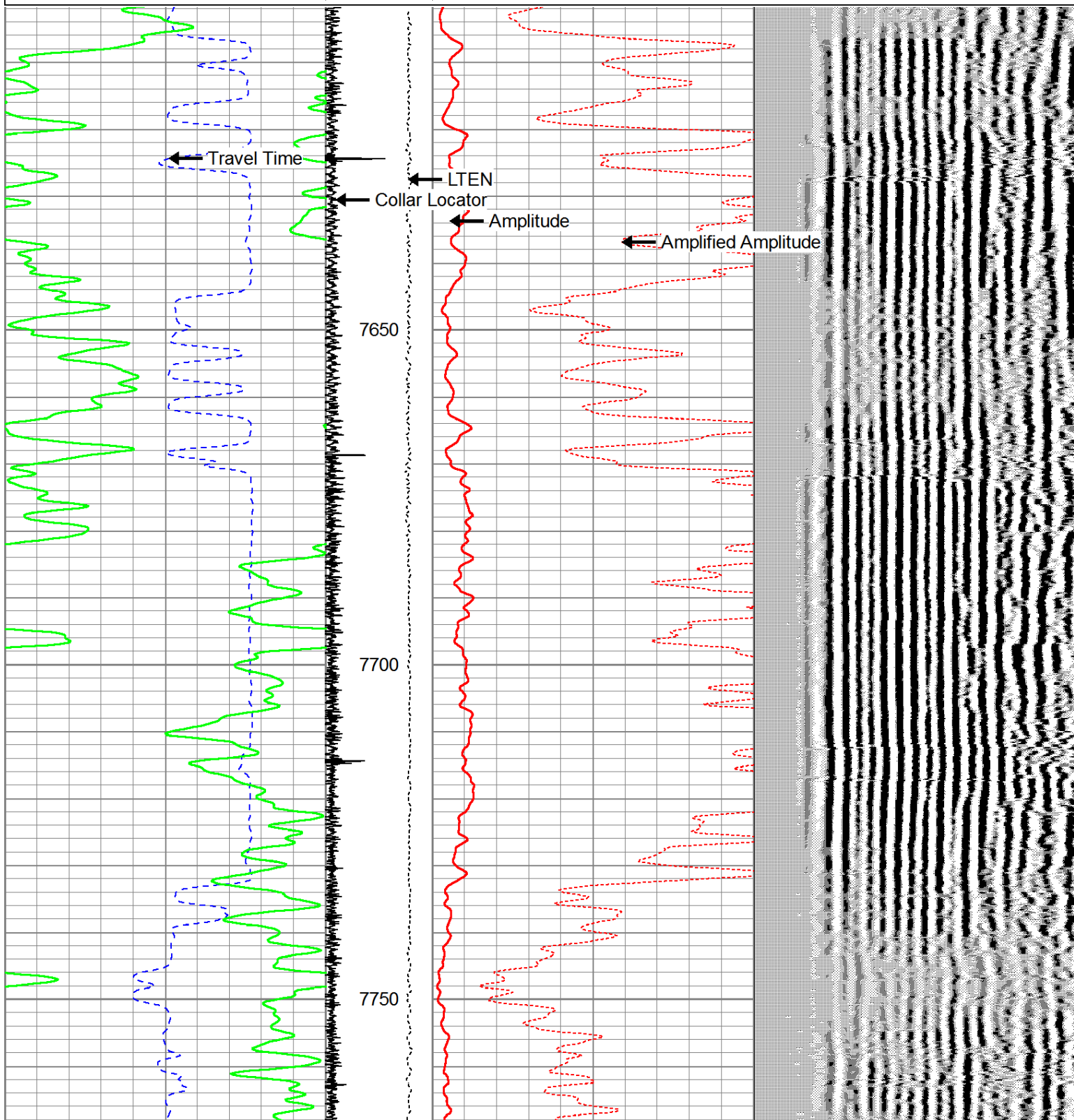


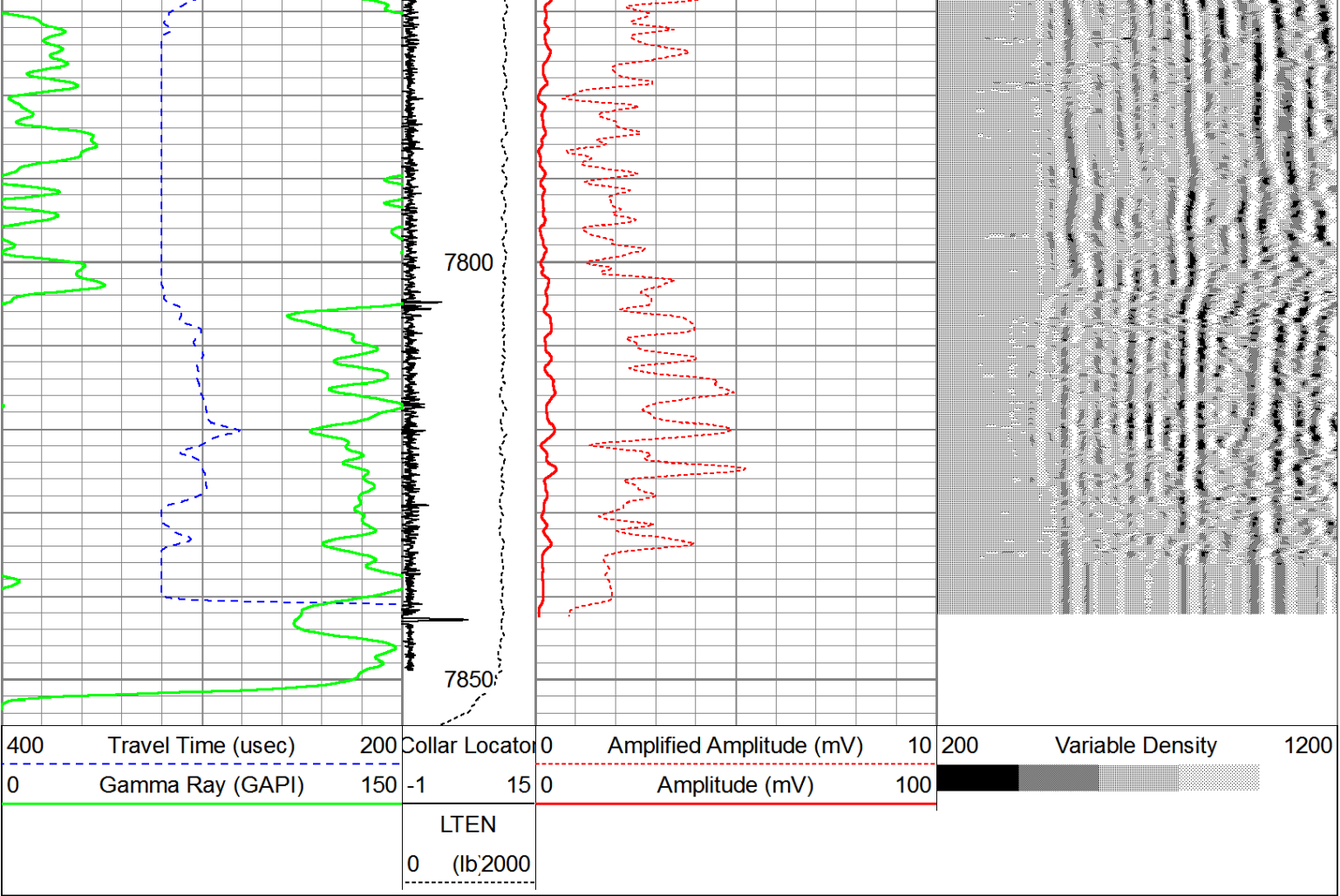


5-1/2" REPEAT PASS

Database File: raindance242hn.db  
 Dataset Pathname: REPEAT  
 Presentation Format: cblww  
 Dataset Creation: Sat Oct 28 19:59:35 2017 by Log Std Casedhole 10081  
 Charted by: Depth in Feet scaled 1:240

|     |                    |     |                |    |                          |                |     |                  |      |
|-----|--------------------|-----|----------------|----|--------------------------|----------------|-----|------------------|------|
| 400 | Travel Time (usec) | 200 | Collar Locator | 0  | Amplified Amplitude (mV) | 10             | 200 | Variable Density | 1200 |
| 0   | Gamma Ray (GAPI)   | 150 | -1             | 15 | 0                        | Amplitude (mV) | 100 |                  |      |
|     |                    |     | LTEN           |    |                          |                |     |                  |      |
|     |                    |     | 0 (lb/2000)    |    |                          |                |     |                  |      |





| Sensor | Offset (ft) | Schematic | Description   | Len (ft) | OD (in) | Wt (lb) |
|--------|-------------|-----------|---|----------|---------|---------|
|        |             |           | 1.4375<br>Titan 1 7/16 Cablehead                                | 1.50     | 1.44    | 2.00    |
|        |             |           | PTS275  | 2.83     | 2.75    |         |
|        |             |           | CBL-Digital HT (Probe 275 CBL) (08083911.28<br>Probe 275 CBL HT |          | 2.75    | 130.00  |
| WVF3   | 14.50       |           |   |          |         |         |
| WVF5   | 13.50       |           |   |          |         |         |

