



GAMMA RAY CCL
CEMENT BOND VDL

Company GREAT WESTERN OIL & GAS
Well BAILEY #1
Field WATTENBERG
County ADAMS State CO

Location: API #: 05-001-08223 Other Services

SWNW

NONE

Company GREAT WESTERN OIL & GAS
Well BAILEY #1
Field WATTENBERG
County ADAMS
State CO

Permanent Datum GL
Log Measured From KB
Drilling Measured From KB

Elevation 5075'
K.B. 5086'
D.F. 5086'
G.L. 5075'

Date 1/20/2019

Run Number ONE
Depth Driller 8261'
Depth Logger 8006'
Bottom Logged Interval 8006'
Top Log Interval SURFACE
Open Hole Size 7 7/8"
Type Fluid WATER
Density / Viscosity 8.34PPG
Max. Recorded Temp. NA
Estimated Cement Top SEE LOG
Time Well Ready ROA
Time Logger on Bottom 1:30 P.M.
Equipment Number 40
Location PLATTEVILLE
Recorded By R RODRIGUEZ
Witnessed By M. TIBBS

Borehole Record
Run Number Bit From To Size Weight From To


Casing Record
Surface String 8 5/8" Wgt/Ft 24# Top SURFACE Bottom 265'
Prot. String
Production String 4.5" 16# SURFACE 8261'
Liner

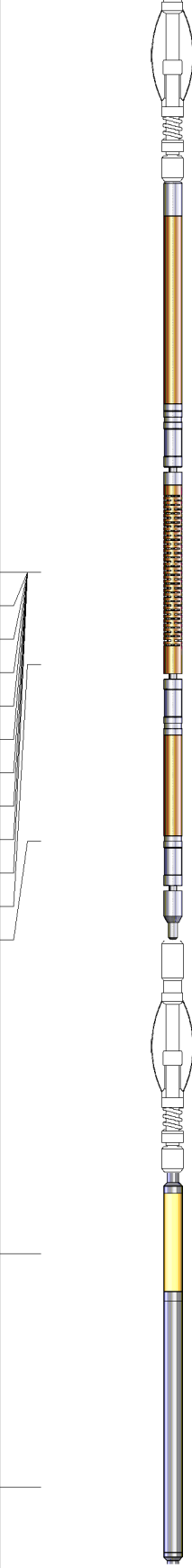
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

LOG RAN UNDER 0 PSI SURFACE INDUCED PRESSURE
THANK YOU FOR CHOOSING KLX ENERGY SERVICES!!

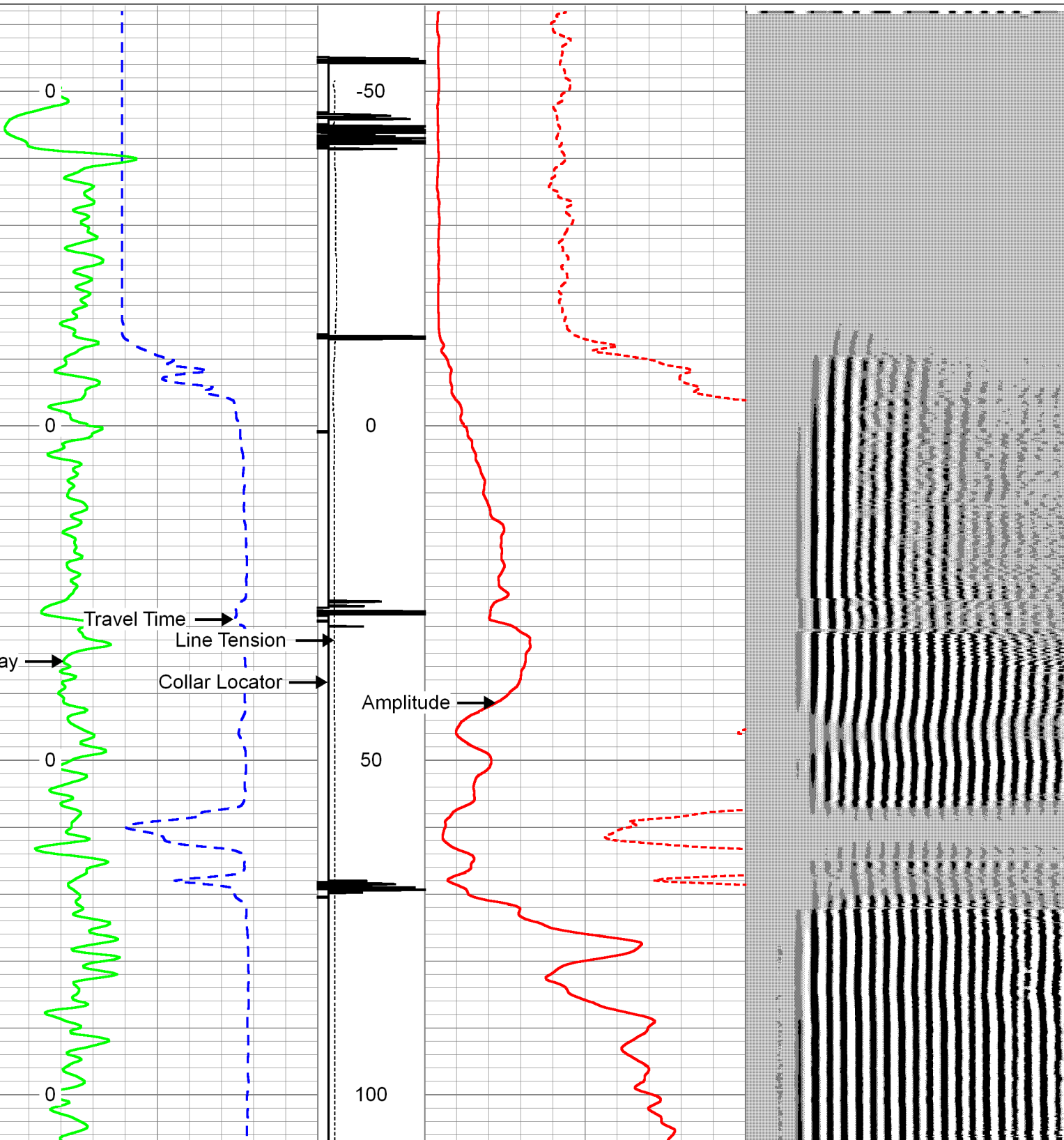
| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|--------|-------------|---|----------------------------------|----------|---------|---------|
| | |  | 1.4375 Titan 1 7/16 Cablehead | 1.03 | 1.44 | 2.00 |

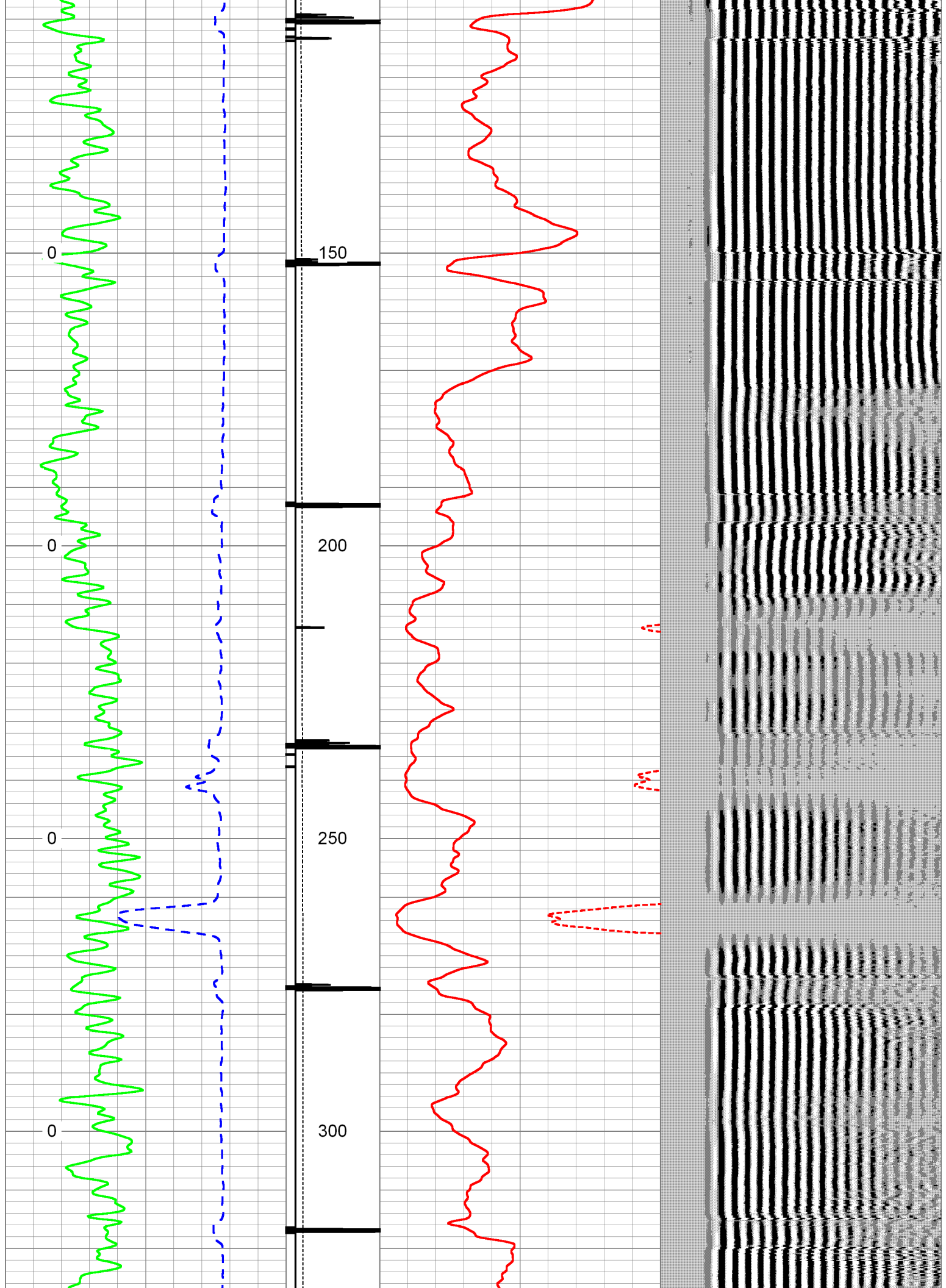
| | | | | | | |
|--|-------|--|--|------|------|-------|
| | | | 2.75 2 3/4" Tekco Adjustable Centralizer | 2.73 | 2.75 | 25.00 |
| WVF3FT | 11.65 |  | | | | |
| WVFCAL | 11.65 | | | | | |
| WVFS1 | 11.65 | | | | | |
| WVFS2 | 11.65 | | | | | |
| WVFS3 | 11.65 | | | | | |
| WVFS4 | 11.65 | | | | | |
| WVFS5 | 11.65 | | | | | |
| WVFS6 | 11.65 | | | | | |
| WVFS7 | 11.65 | | | | | |
| WVFS8 | 11.65 | | | | | |
| WVF5FT | 10.56 | | | | | |
| TEMP | 8.48 | | | | | |
| | | | RBT-Probe (080840) Probe Radii Bond Tool with Digital Telemetry | 8.92 | 2.75 | 90.00 |
| | | | 2.75 2 3/4" Tekco Adjustable Centralizer | 2.73 | 2.75 | 25.00 |
| CCL | 3.64 | | | | | |
| | | | GR-Probe (080220) Probe 2.75" 4 Channel Pulse | 4.58 | 2.75 | 30.00 |
| GR | 0.90 | | | | | |
| Dataset: bailey-1.db: field/well/run1/merge2 | | | | | | |
| Total Length: 19.99 ft | | | | | | |
| Total Weight: 172.00 lb | | | | | | |
| O.D. 2.75 in | | | | | | |

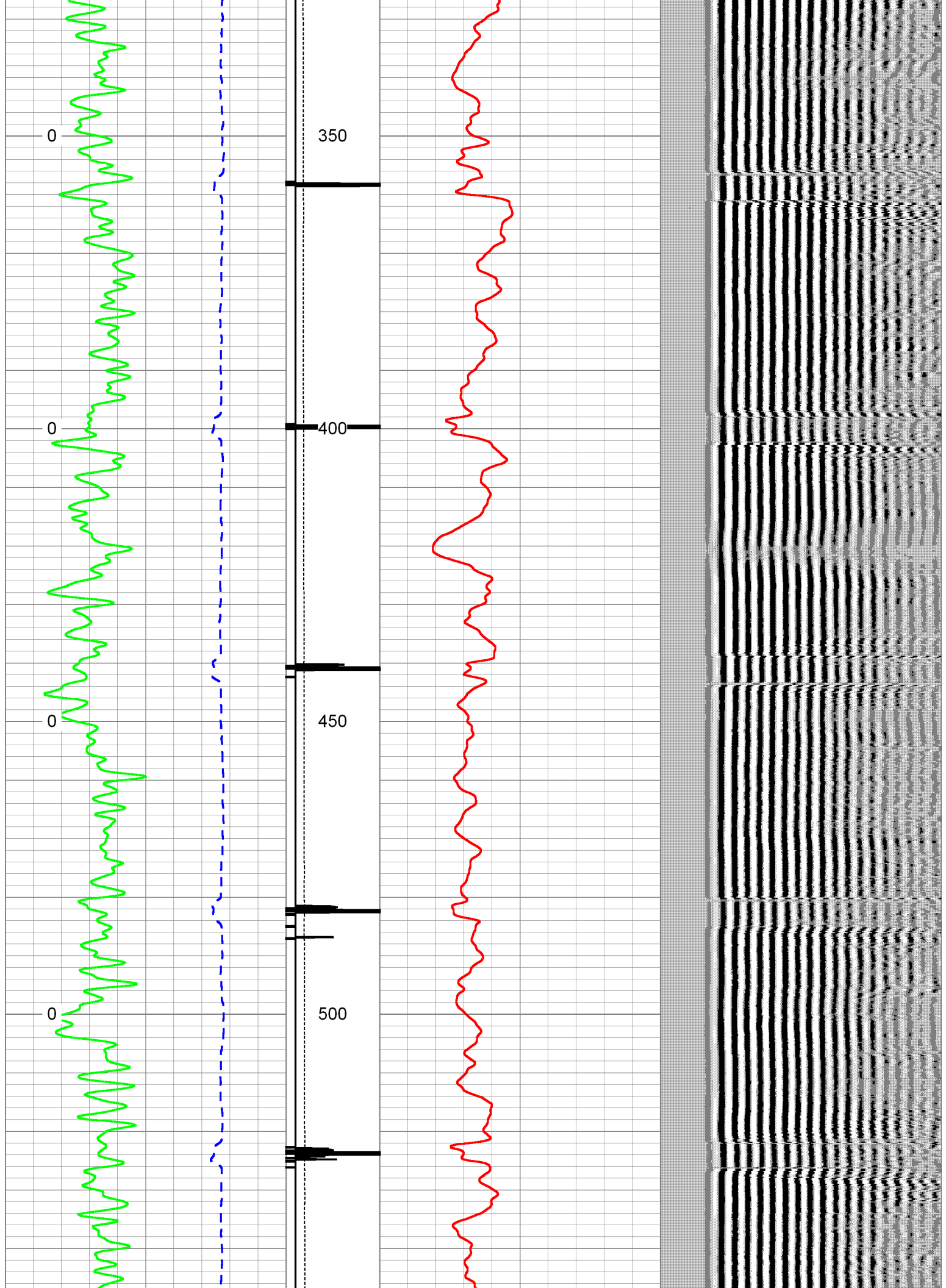
Database File: bailey-1.db
Dataset Pathname: merge2
Presentation Format: cbl_cs
Dataset Creation: Sun Jan 20 15:18:25 2019
Charted by: Depth in Feet scaled 1:240

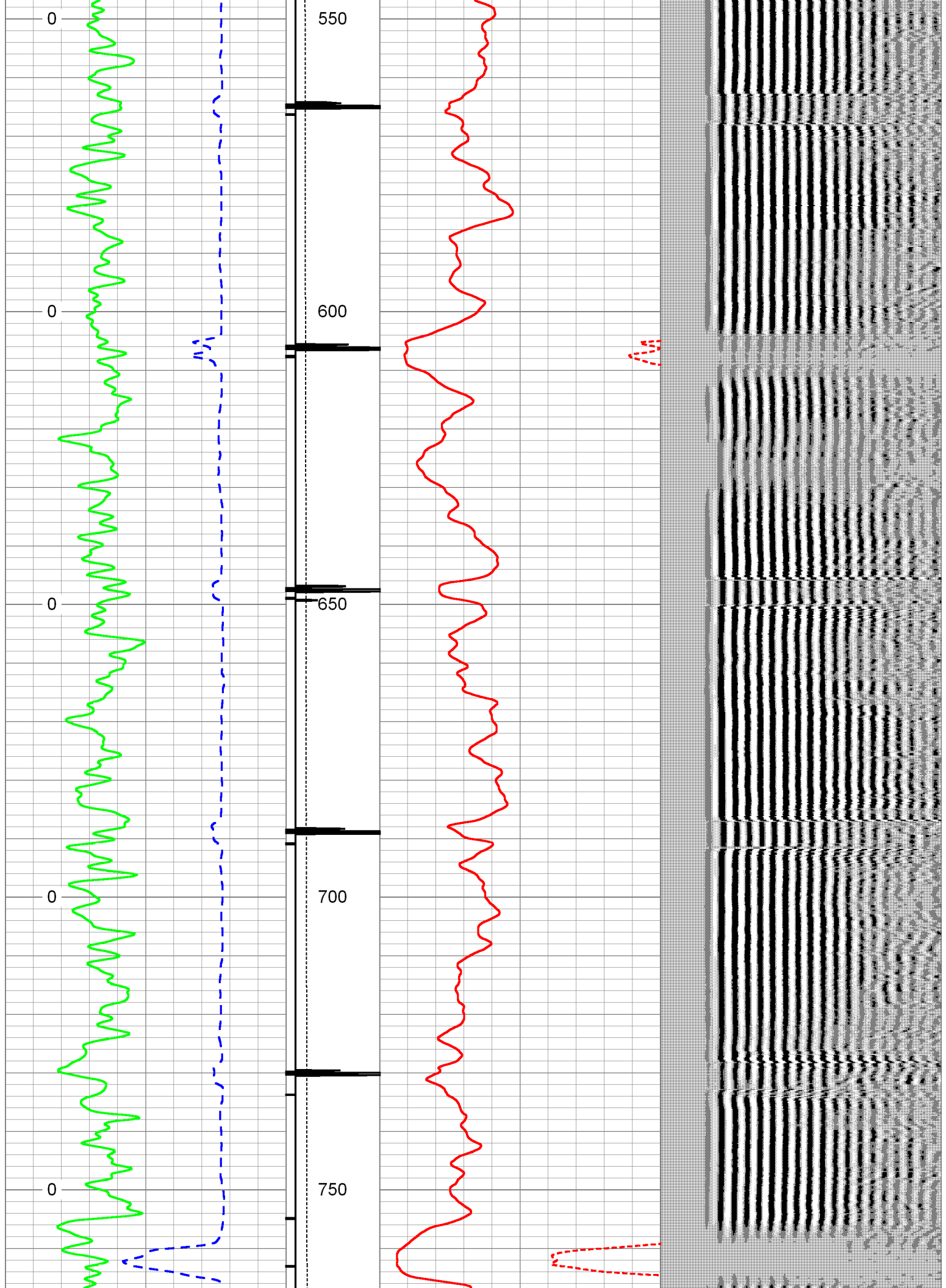
| | | | | | | | | | |
|-----|--------------------|-----|----------------|---|--------------------------|----------------|-----|-----|------|
| 400 | Travel Time (usec) | 200 | Collar Locator | 0 | Amplified Amplitude (mV) | 10 | 200 | VDL | 1200 |
| 0 | Gamma Ray (GAPI) | 150 | -1 | 9 | 0 | Amplitude (mV) | 100 | | |

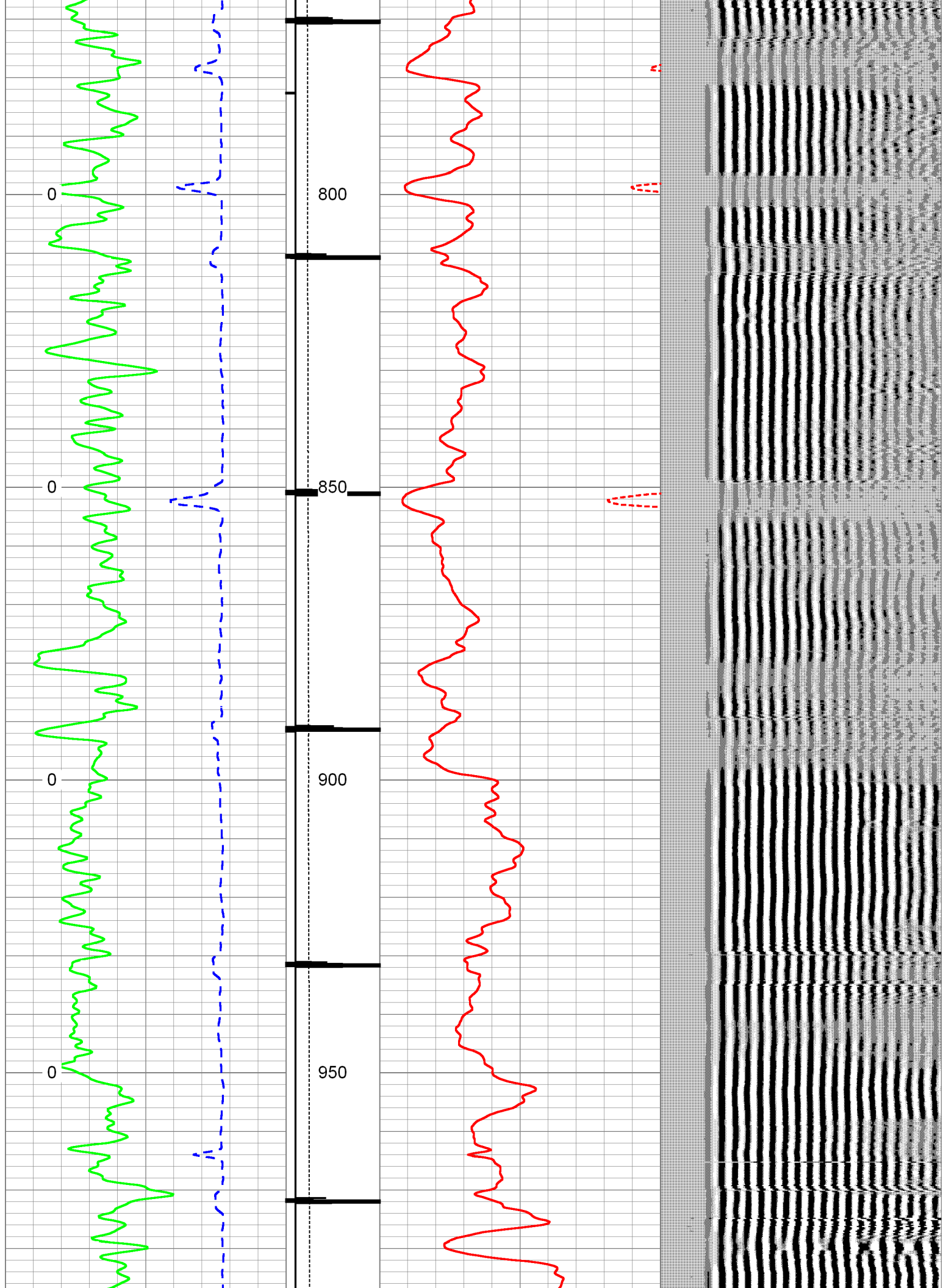
| | |
|--------|--------------|
| TEMP | Line Tension |
| (degF) | (lb) |
| | 0 1500 |

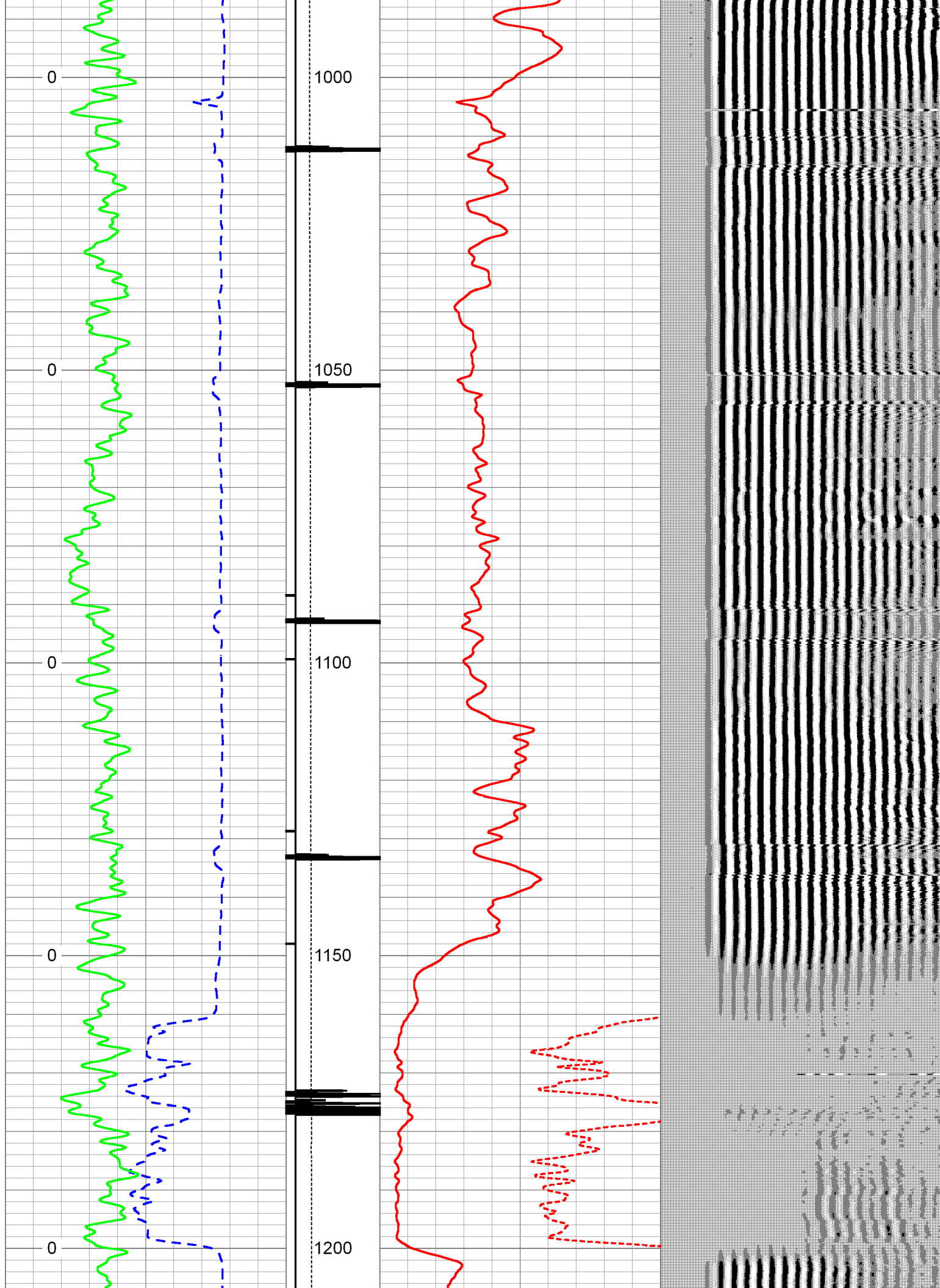


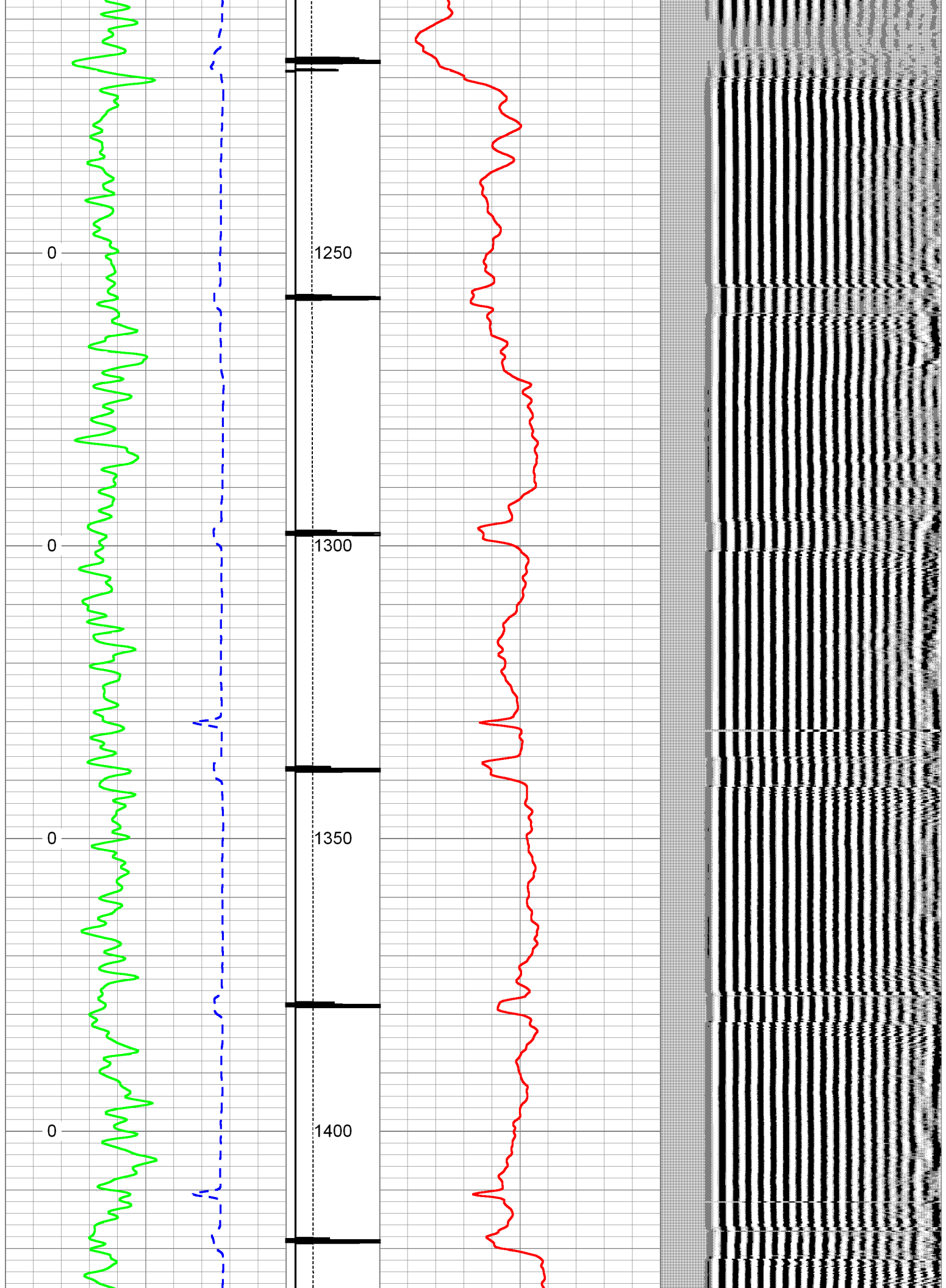


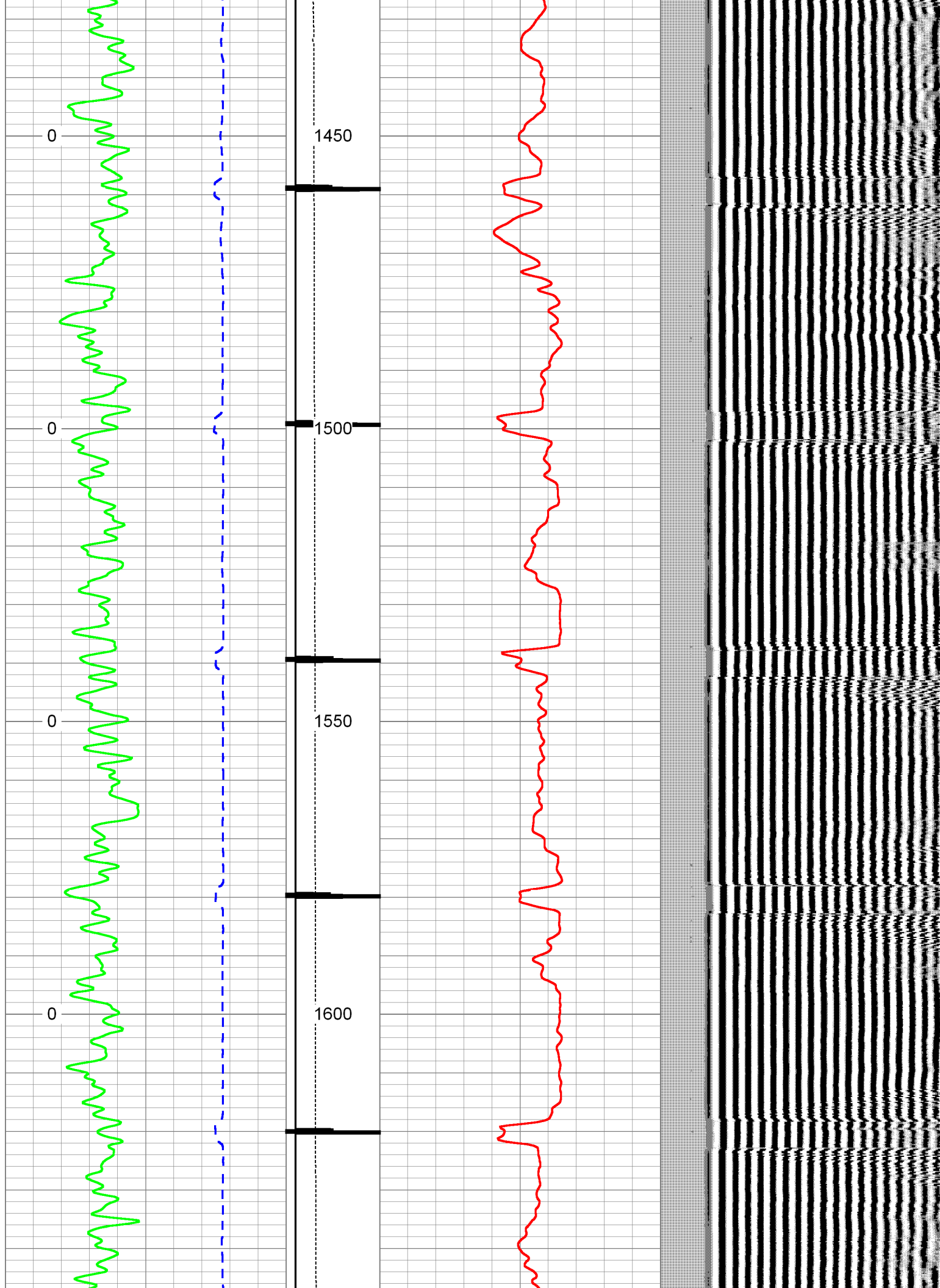


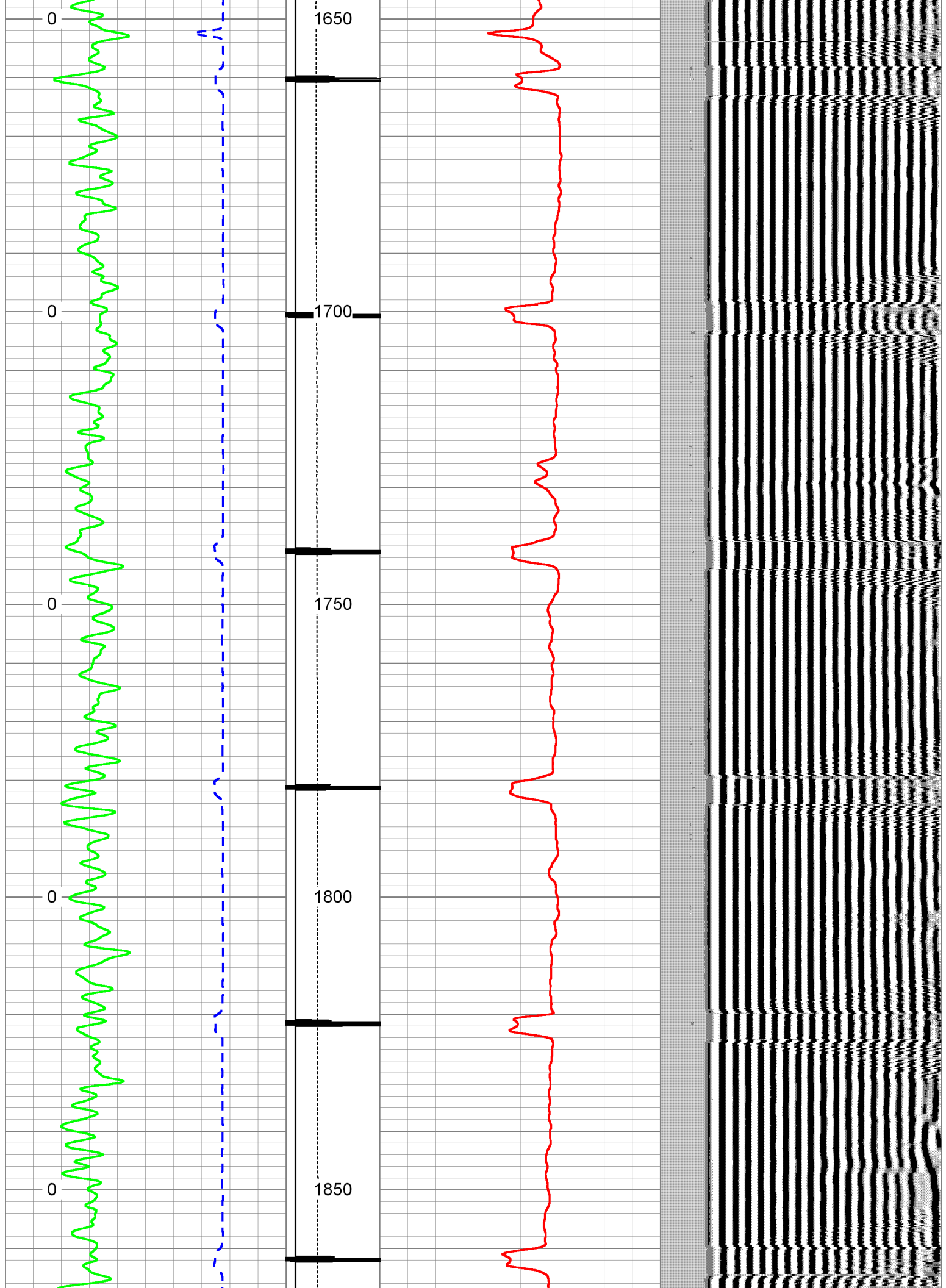


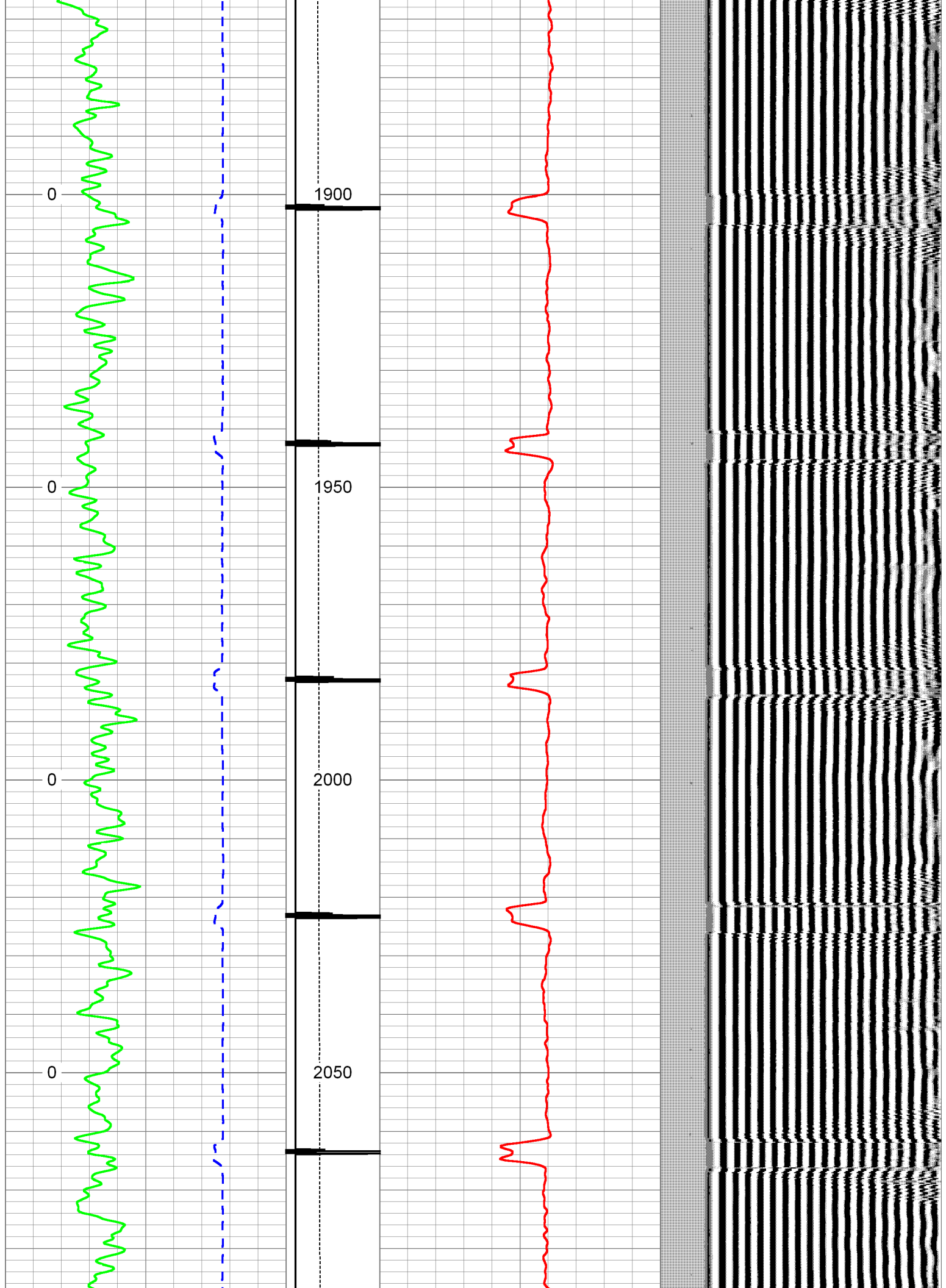


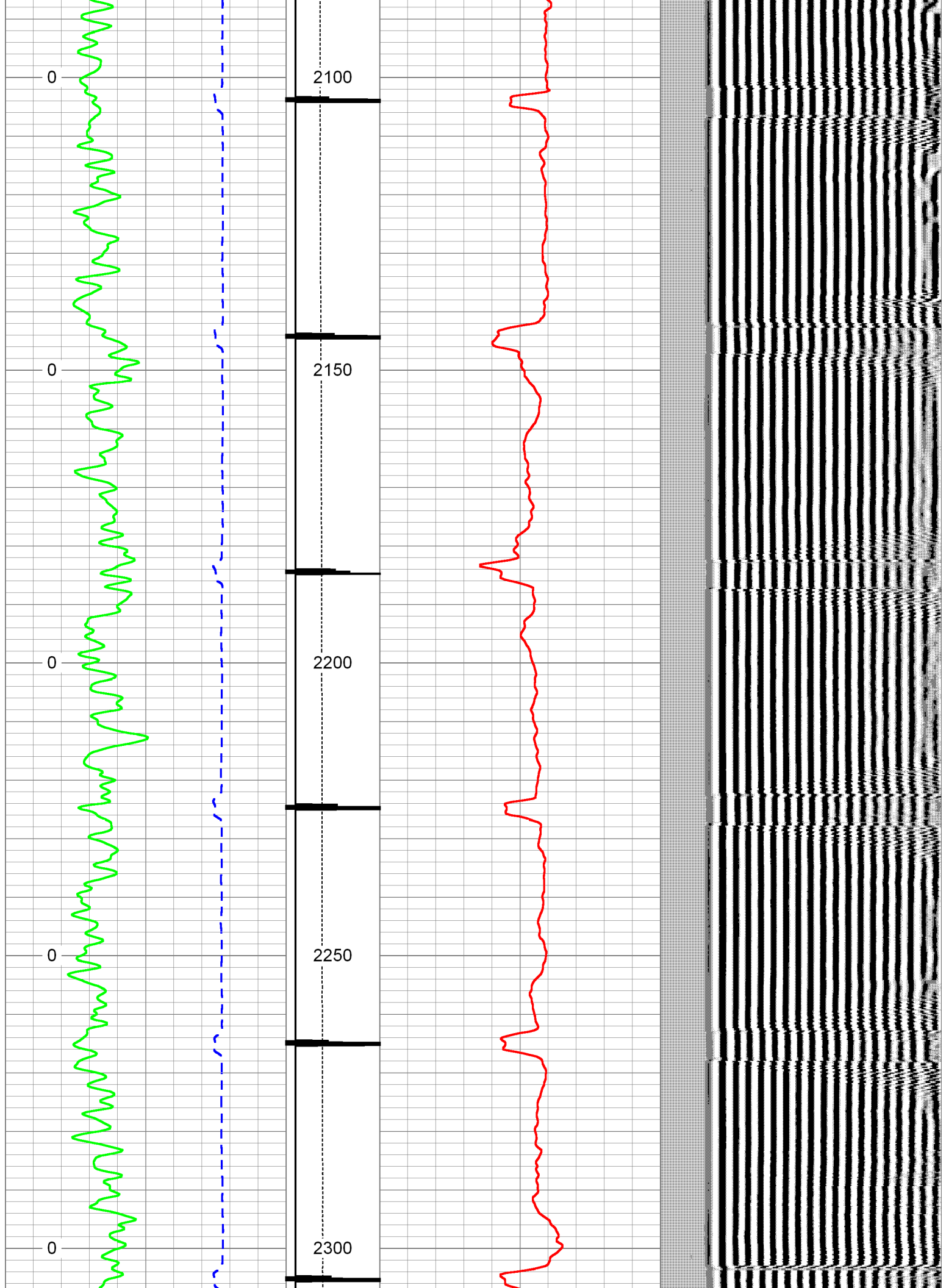


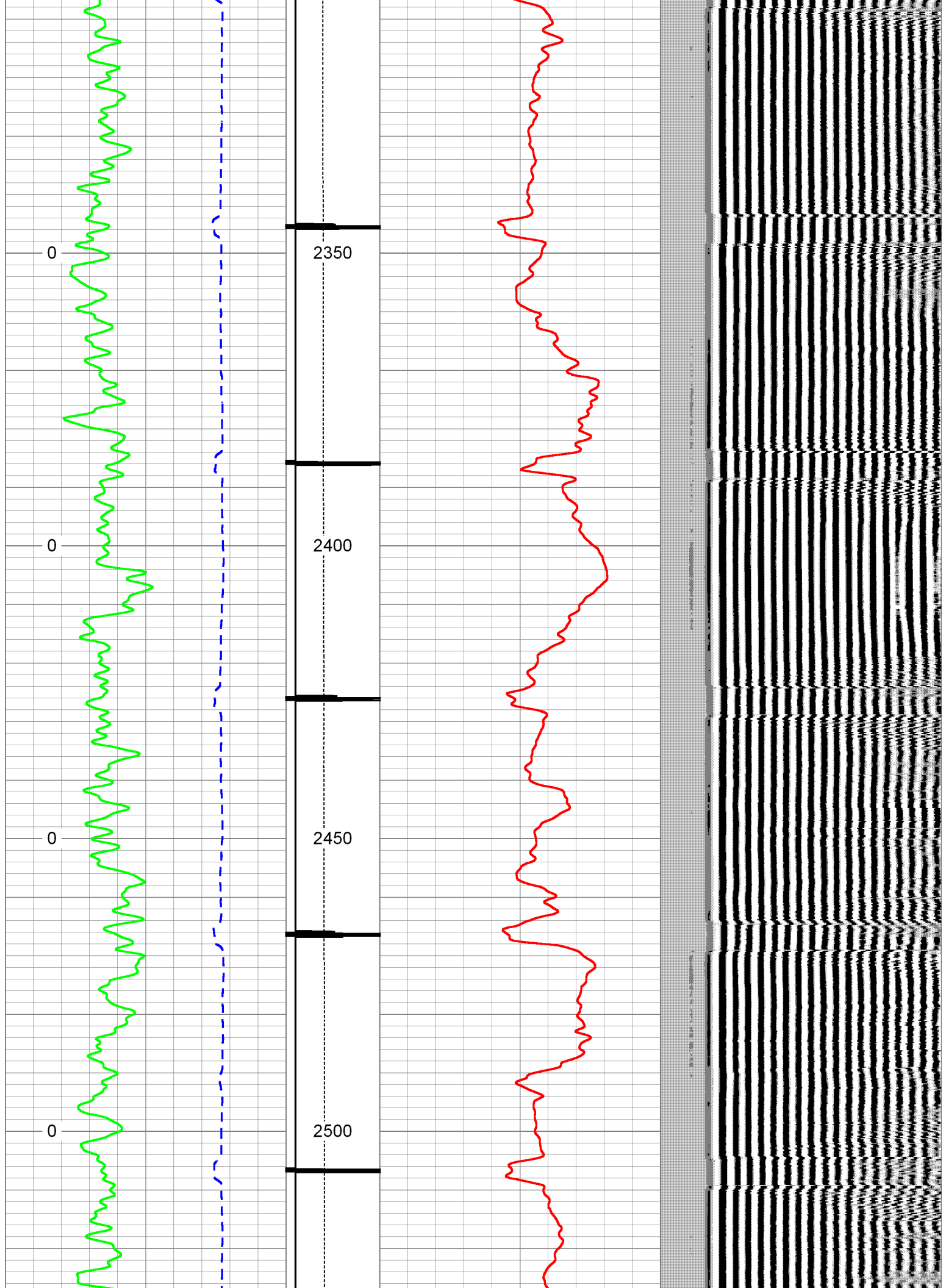


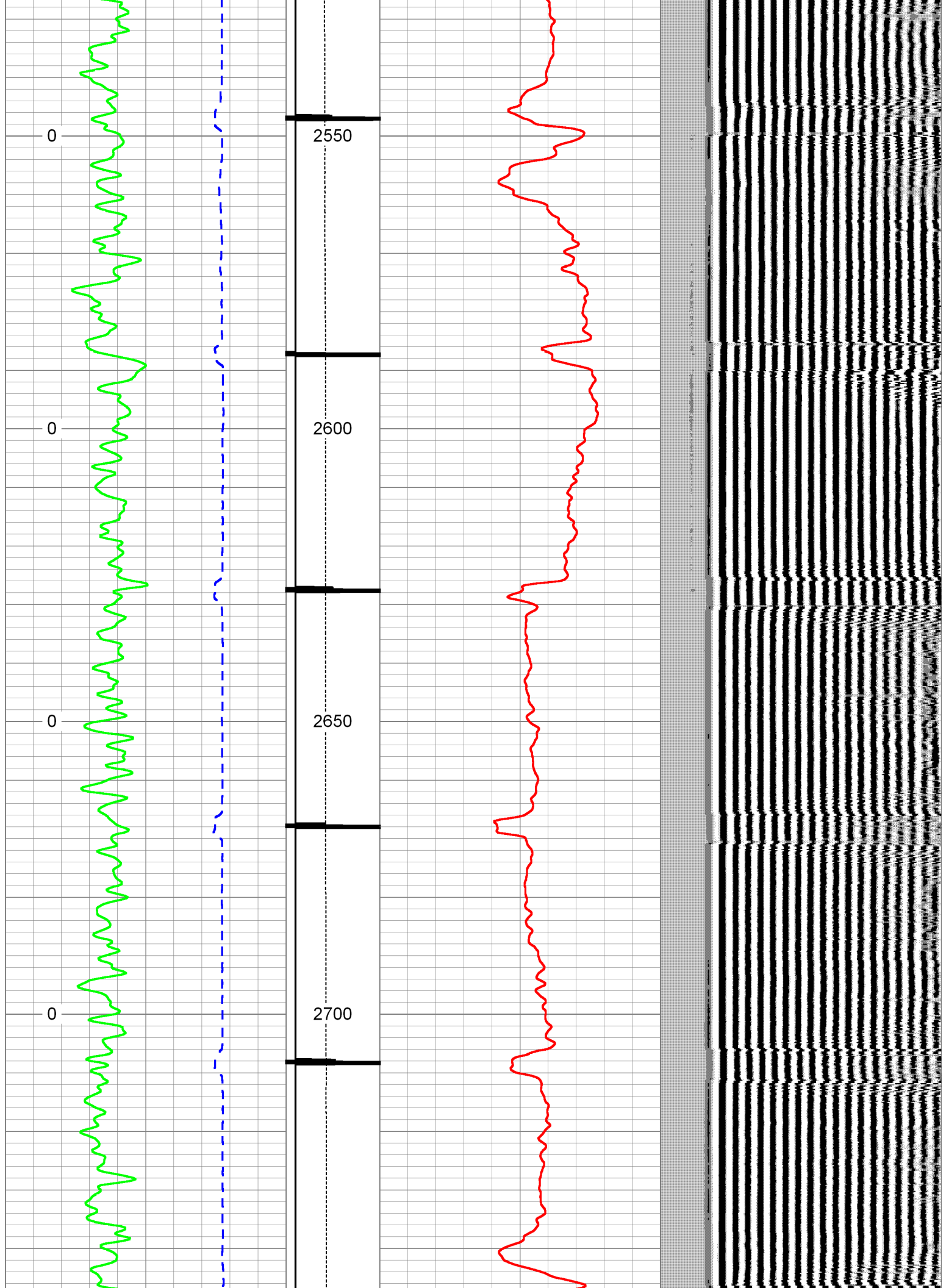


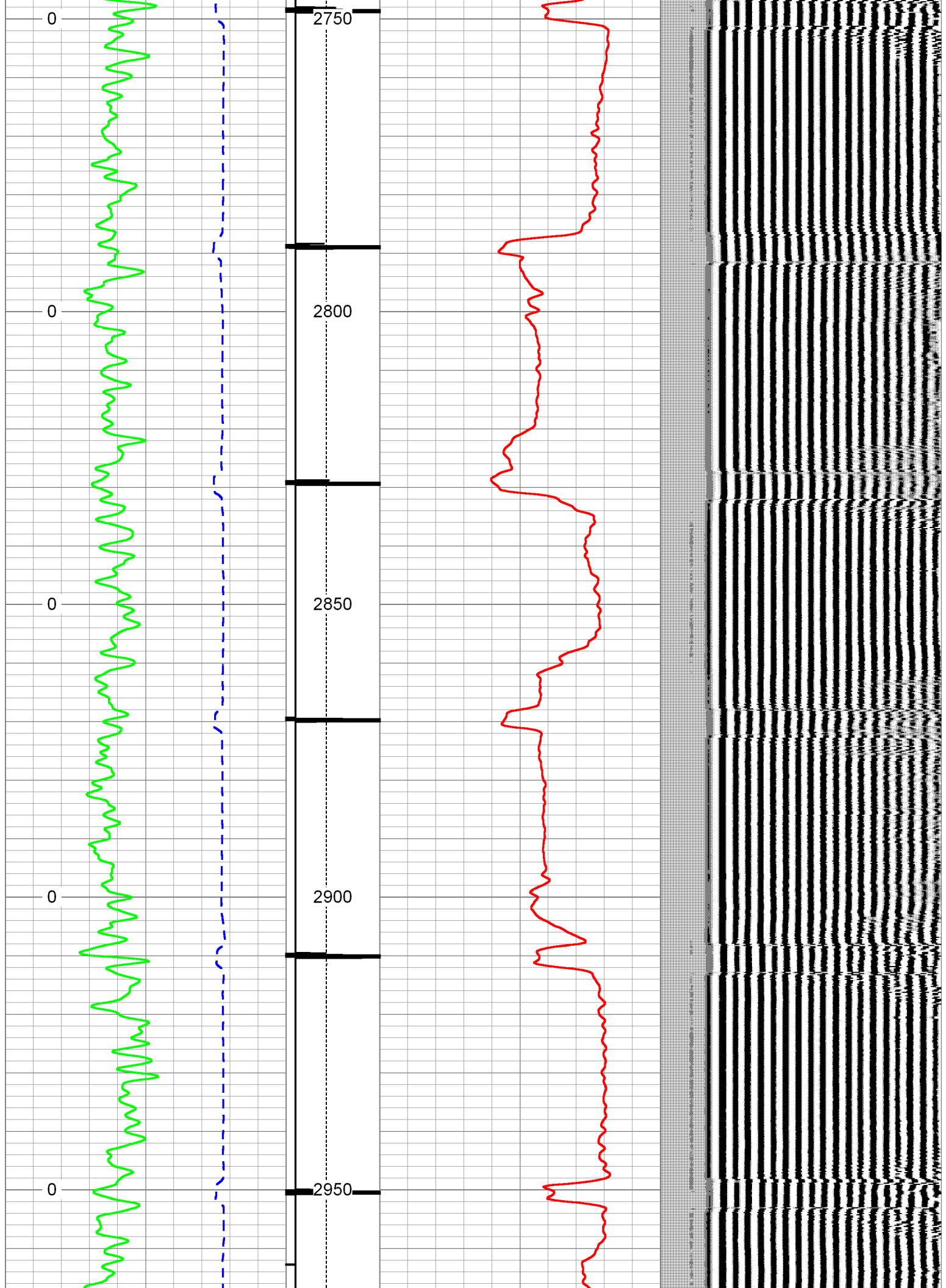


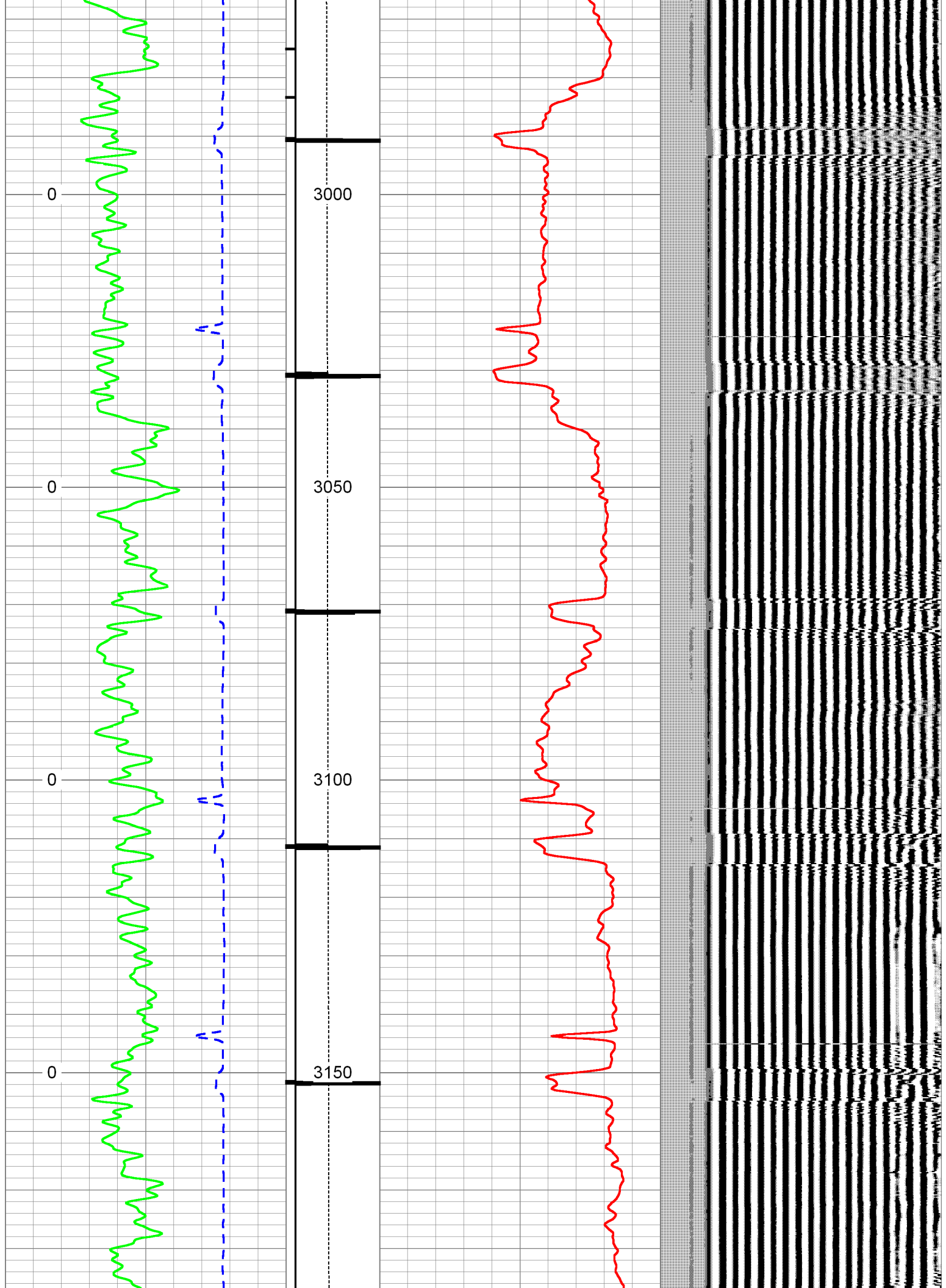


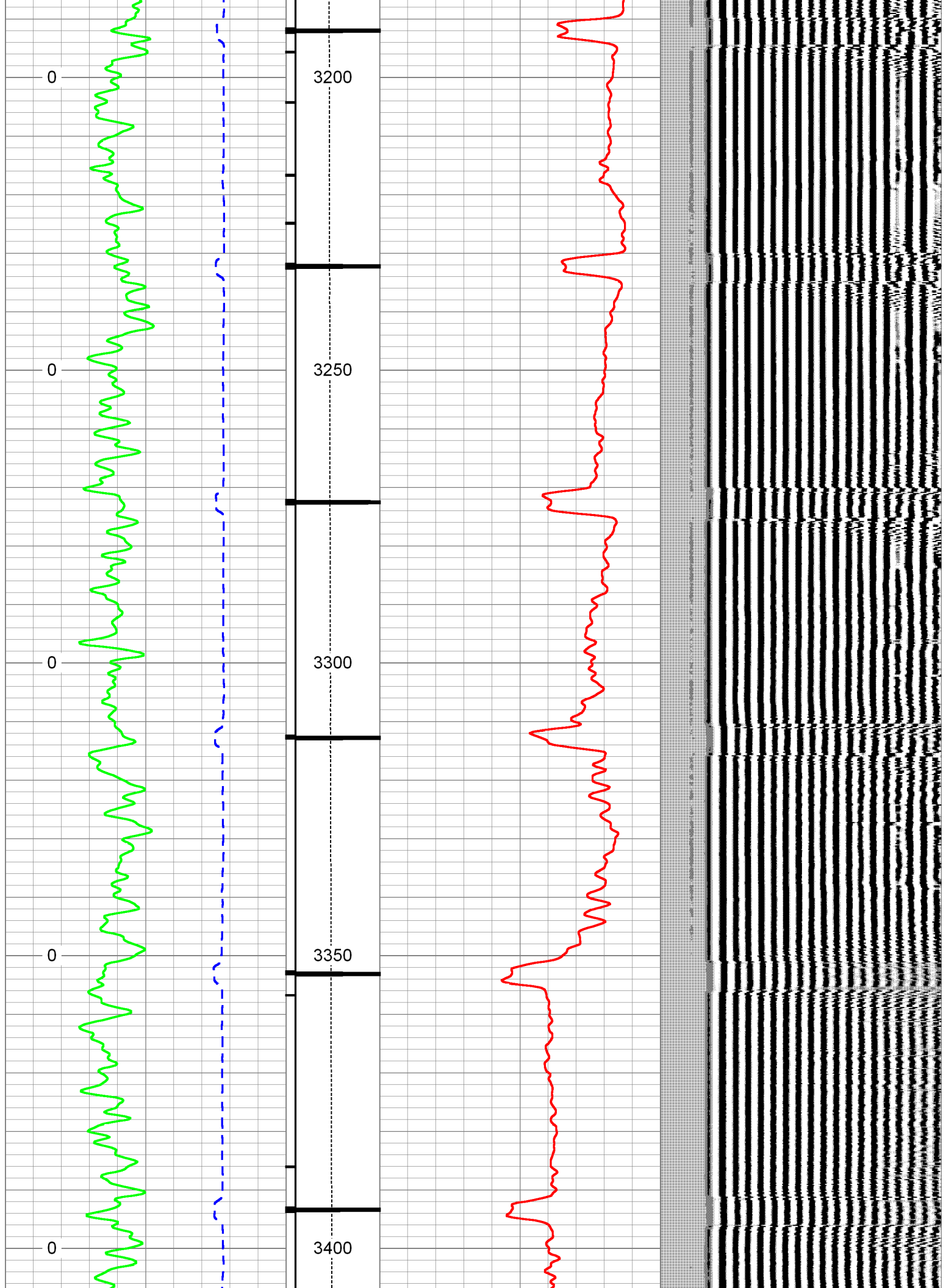


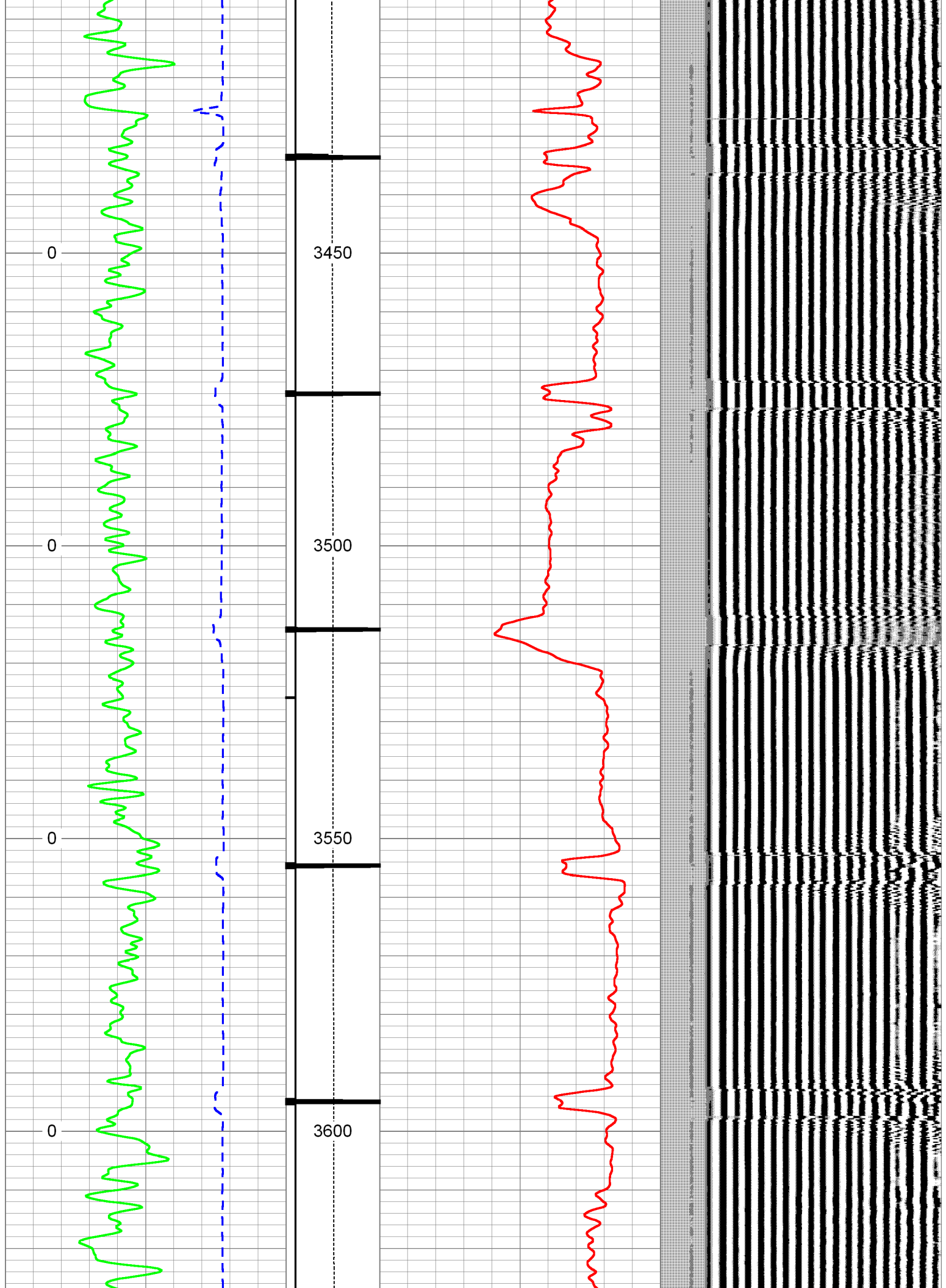


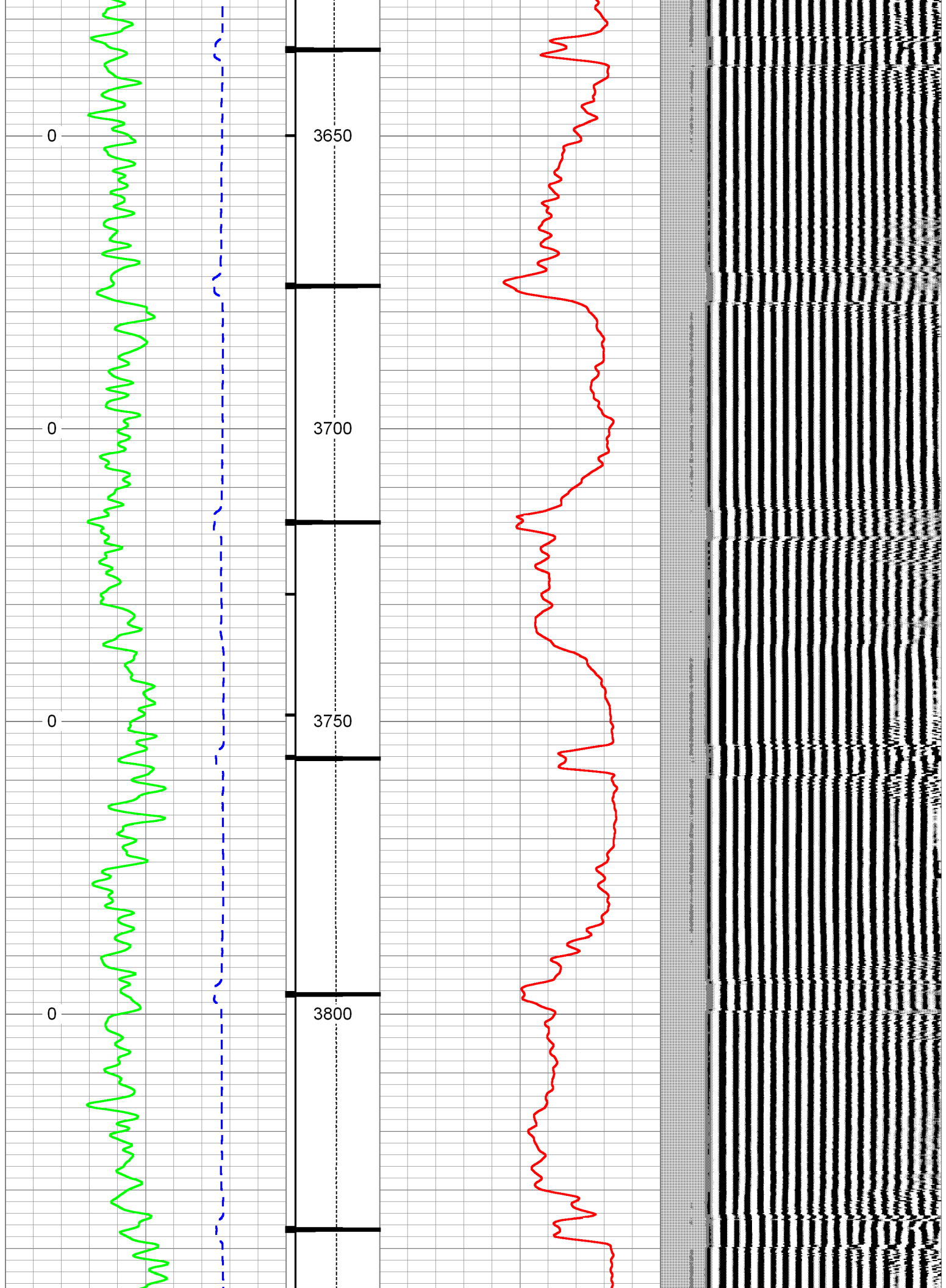


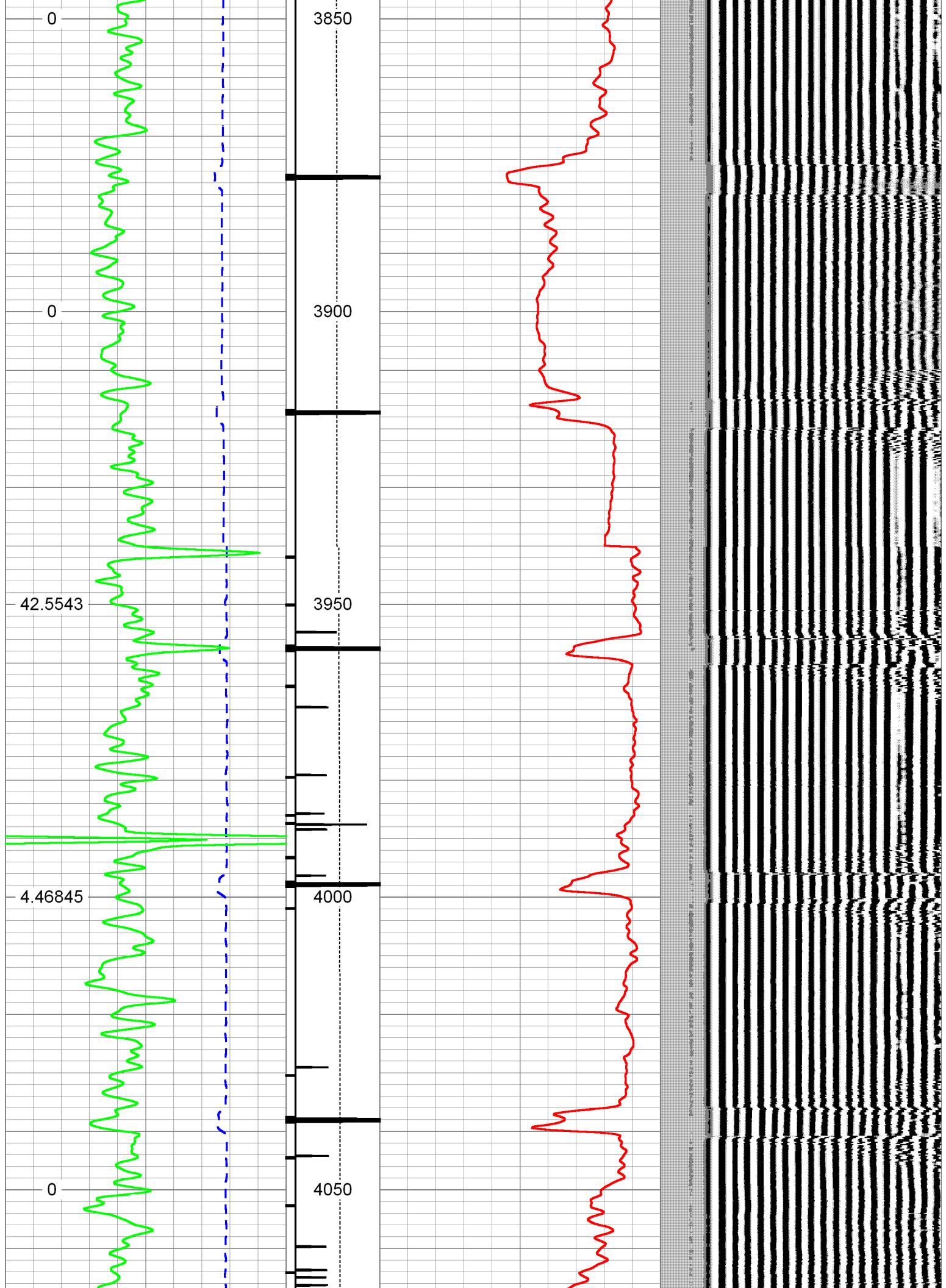


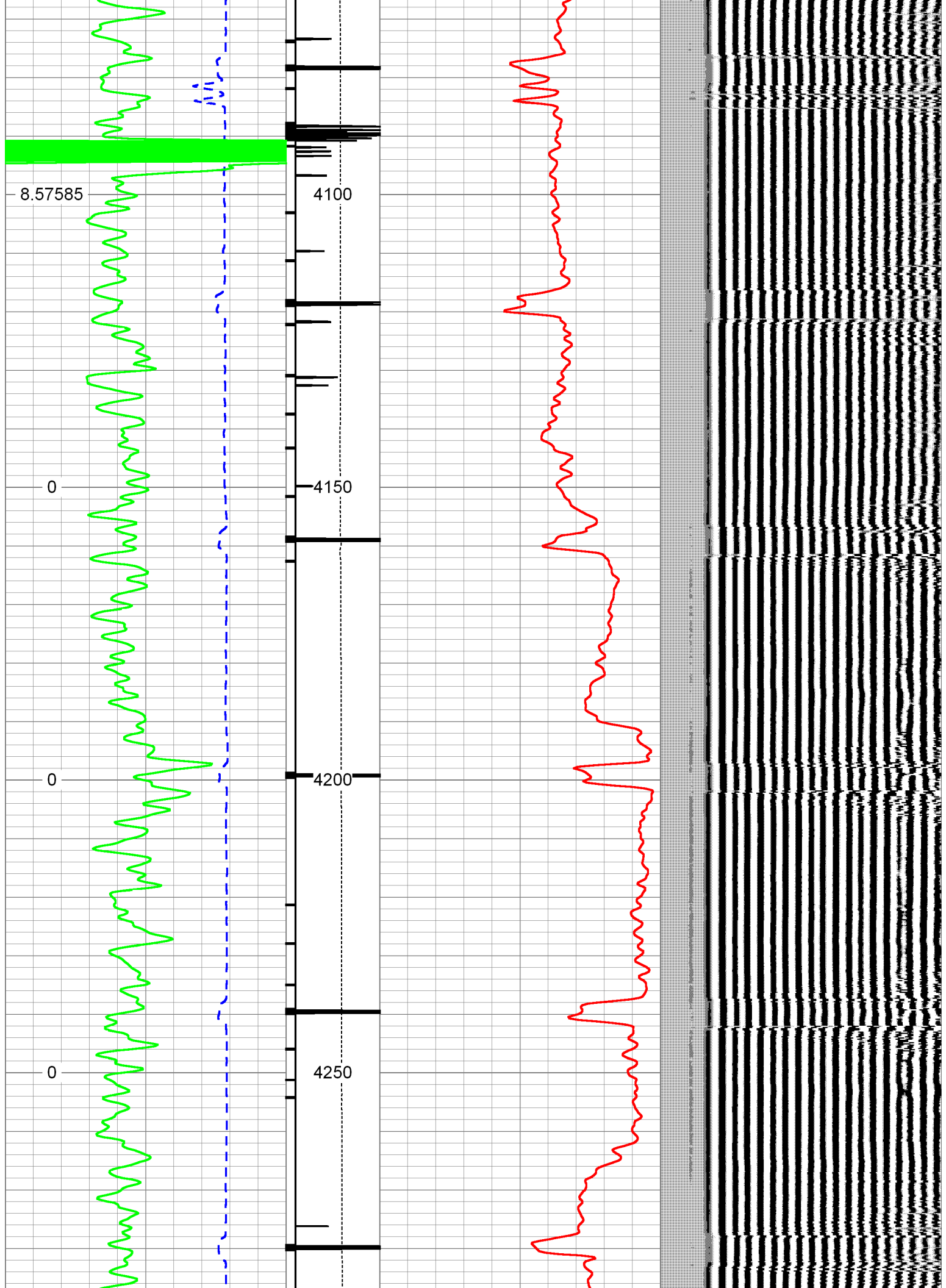


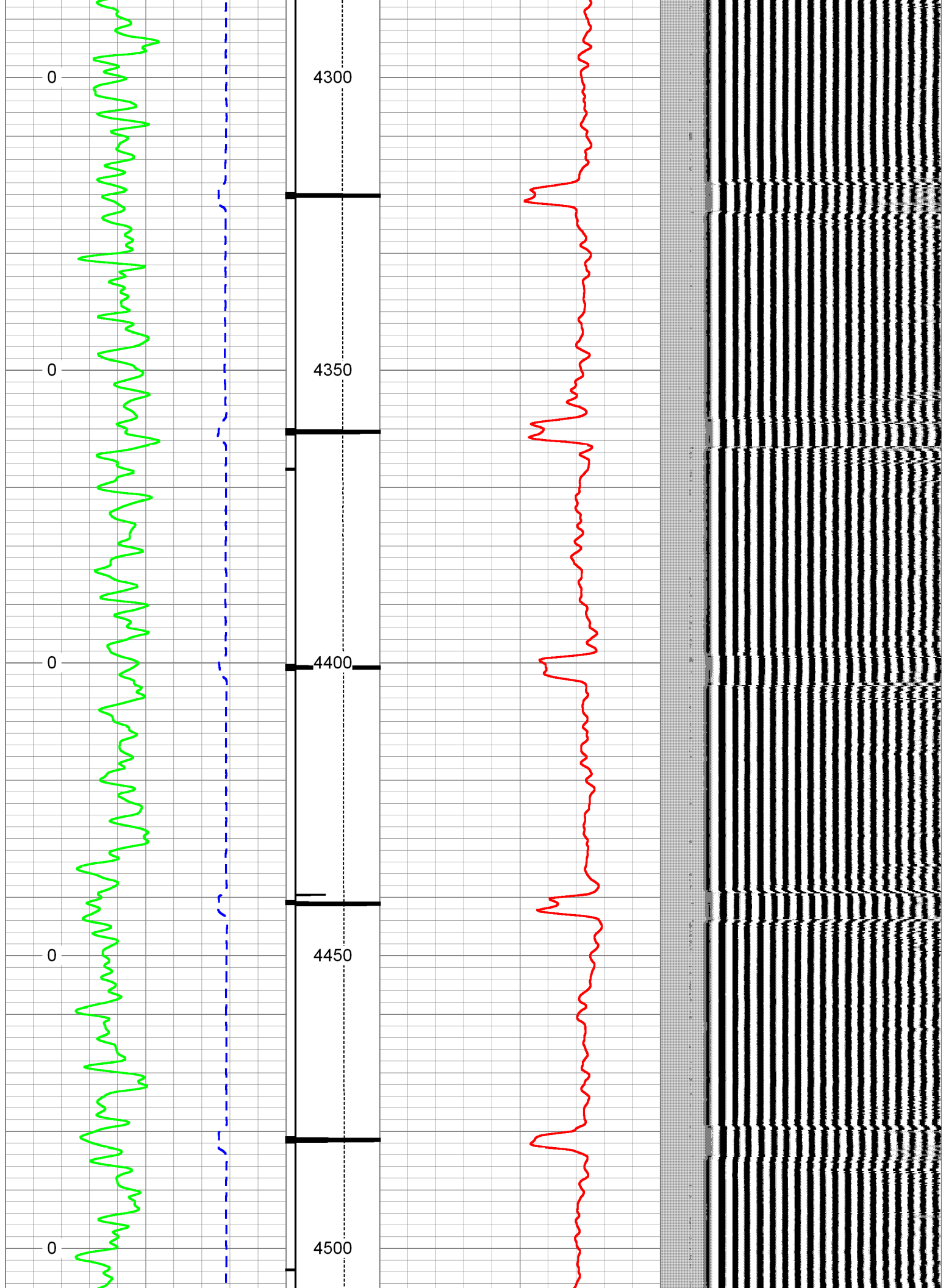


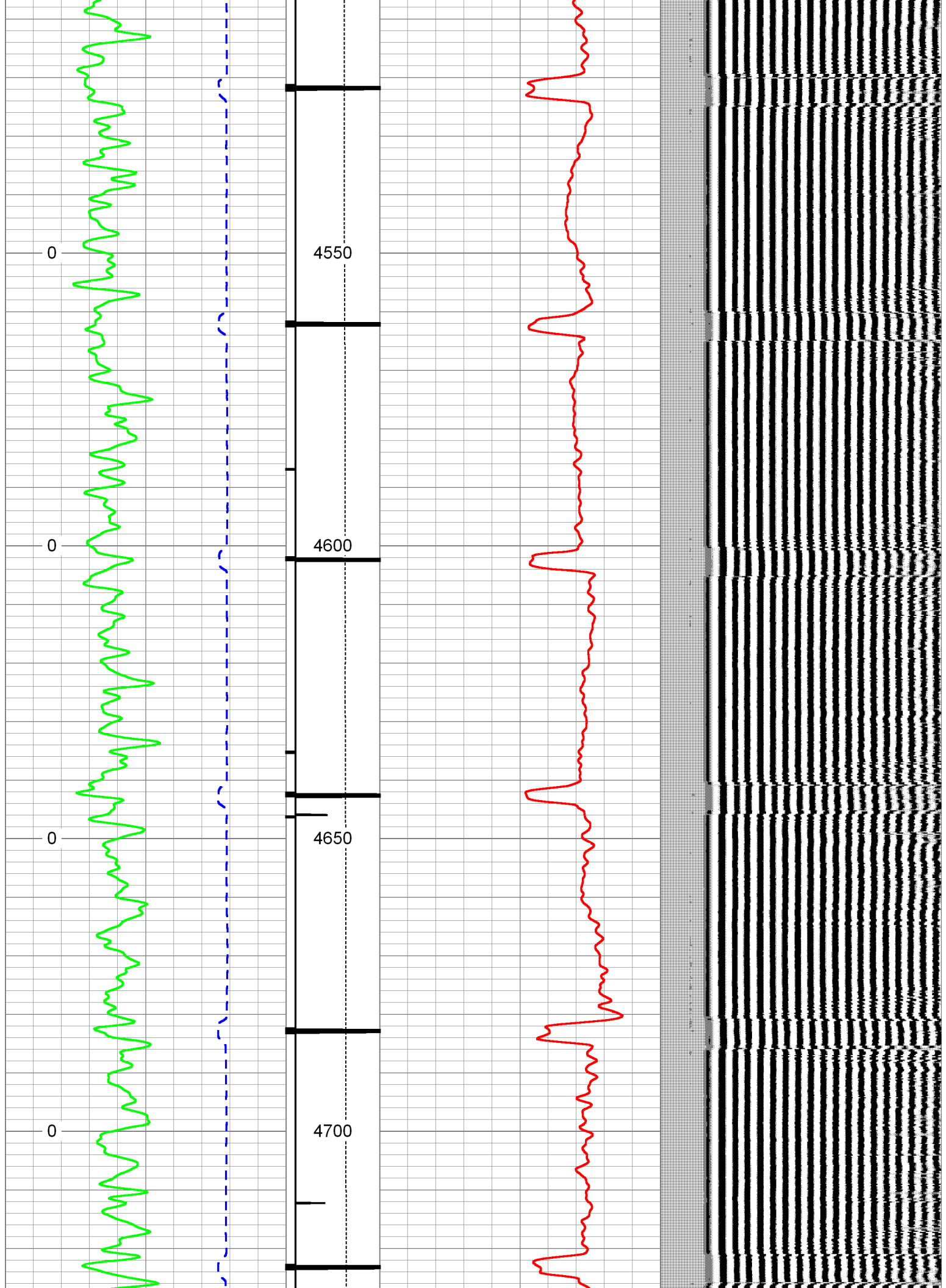


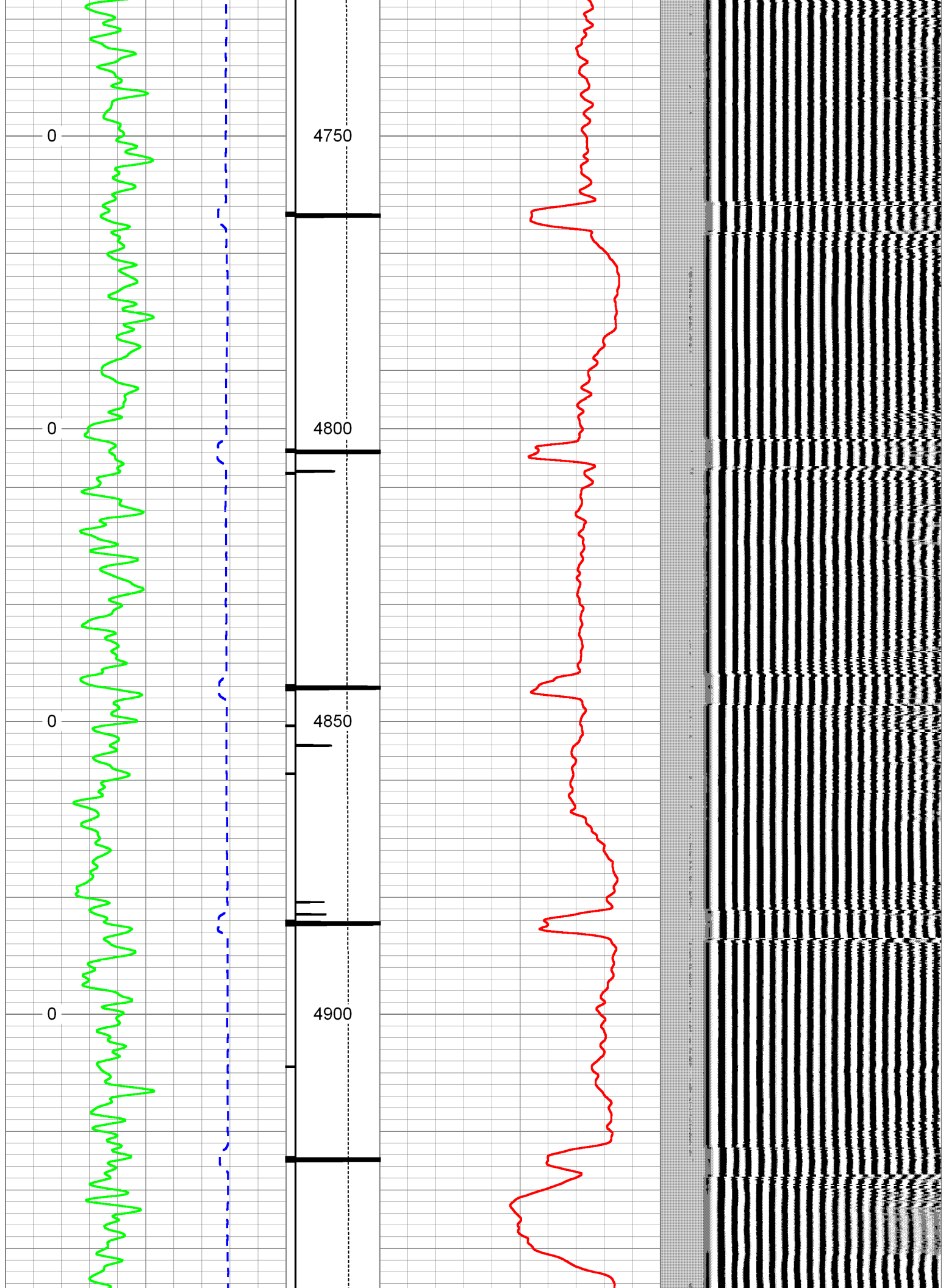


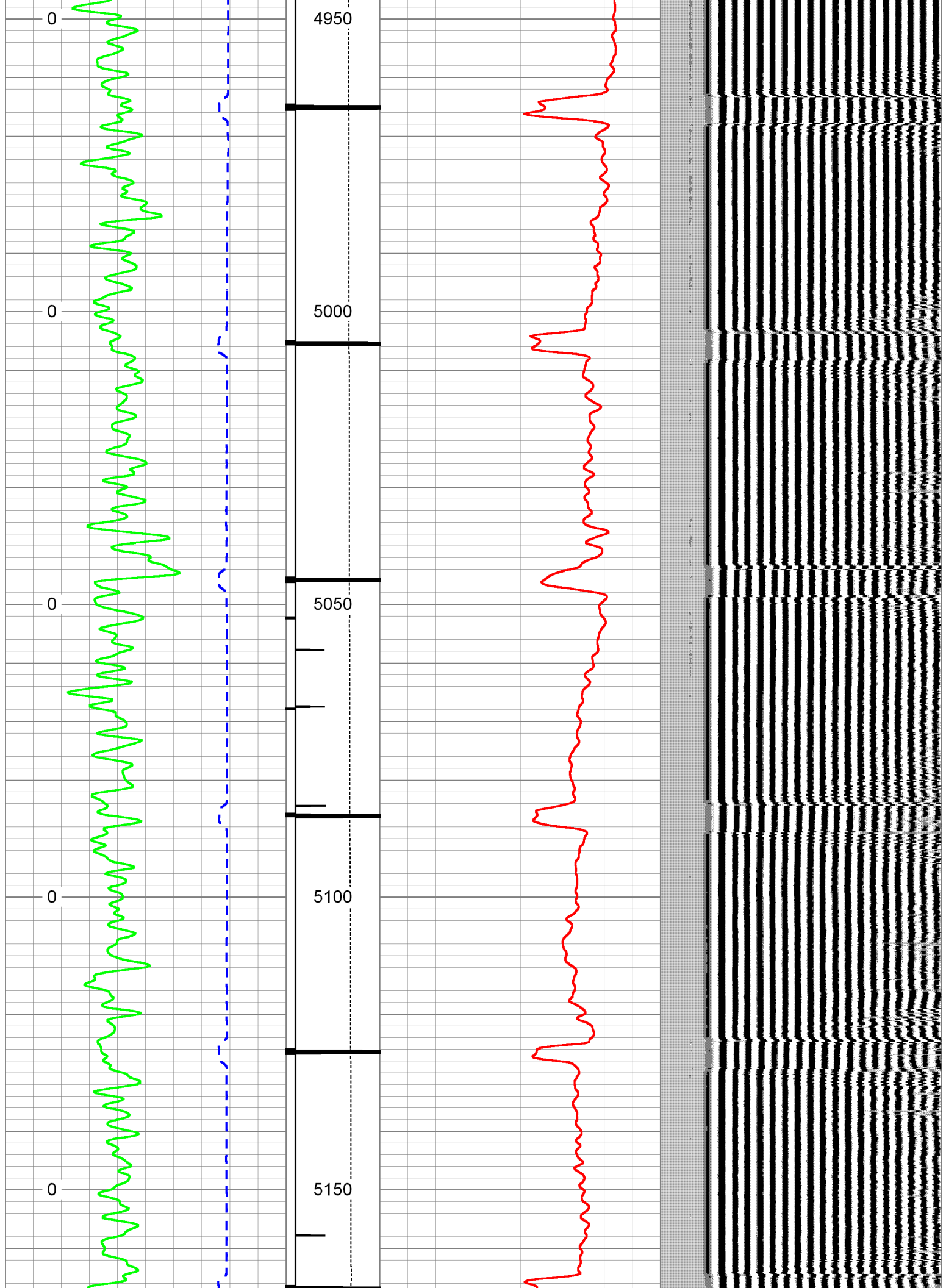


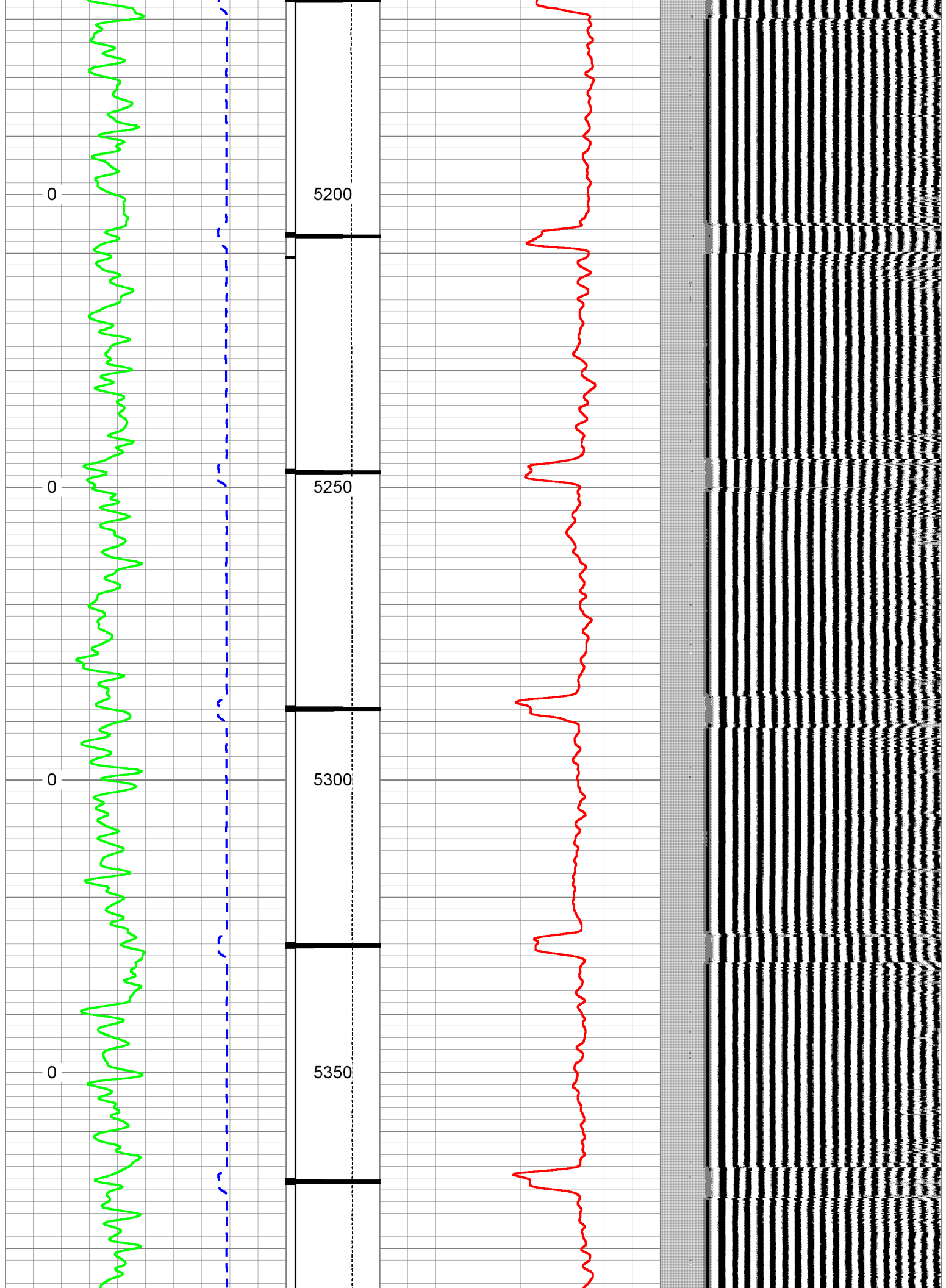


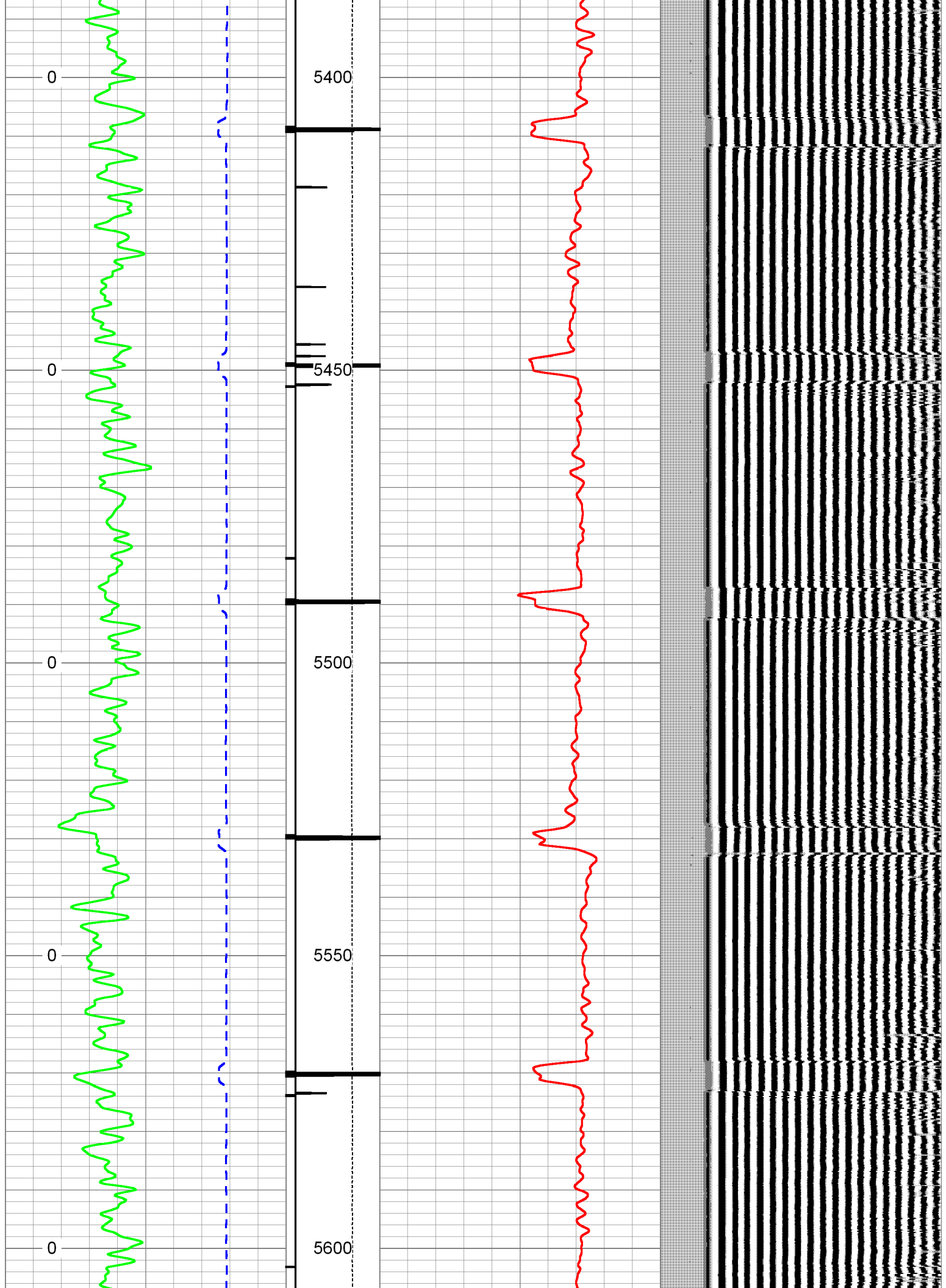


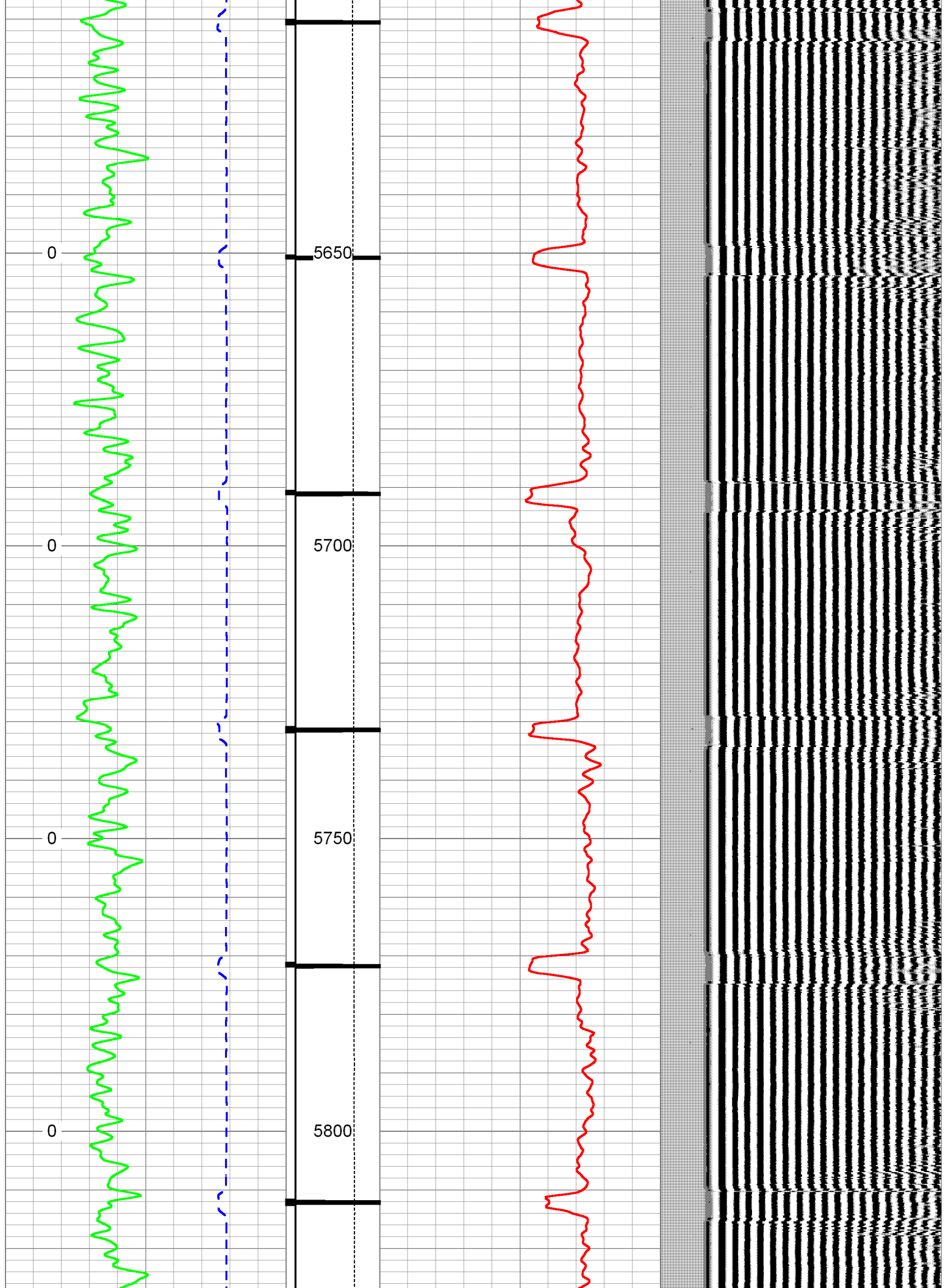


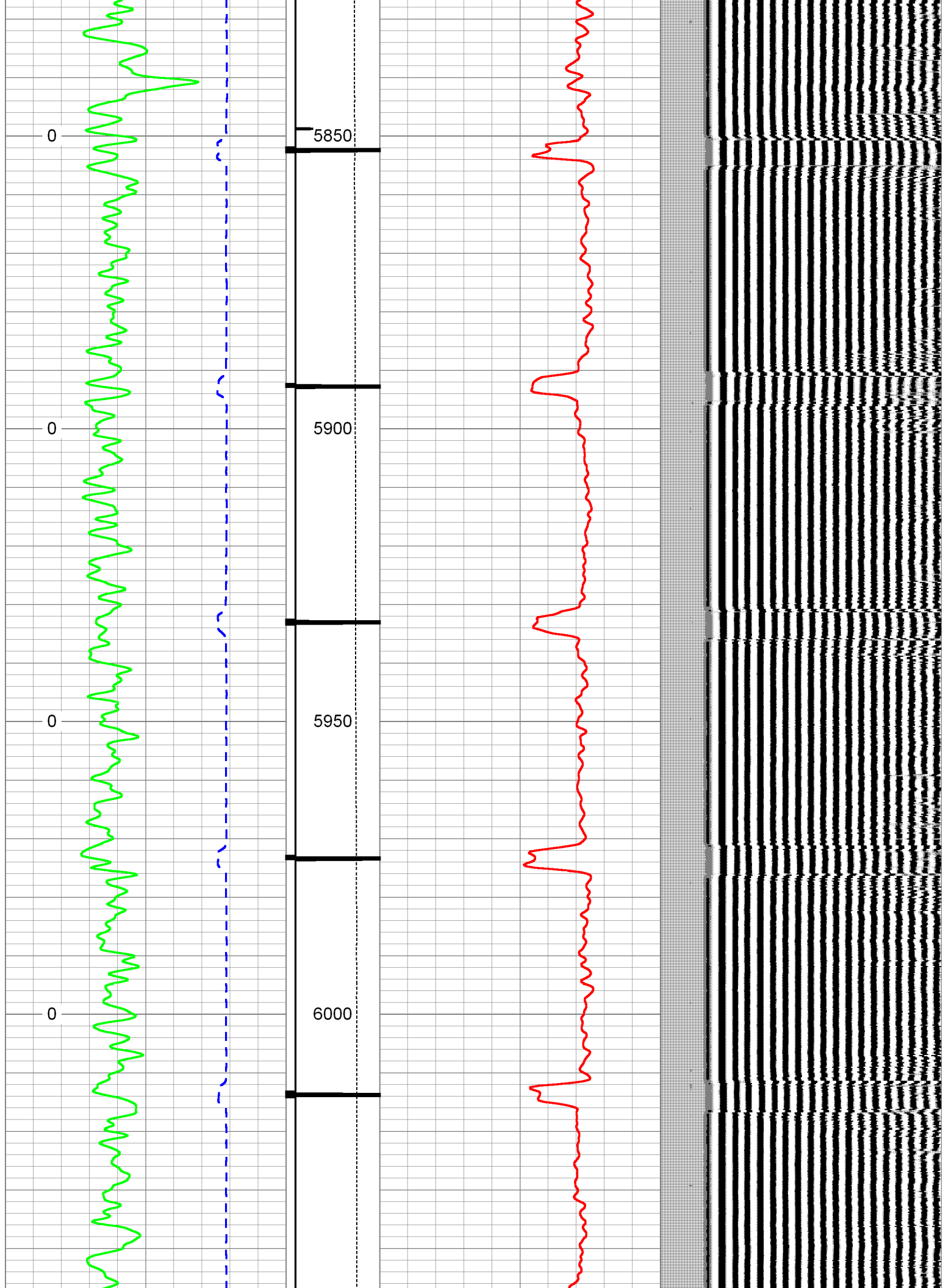


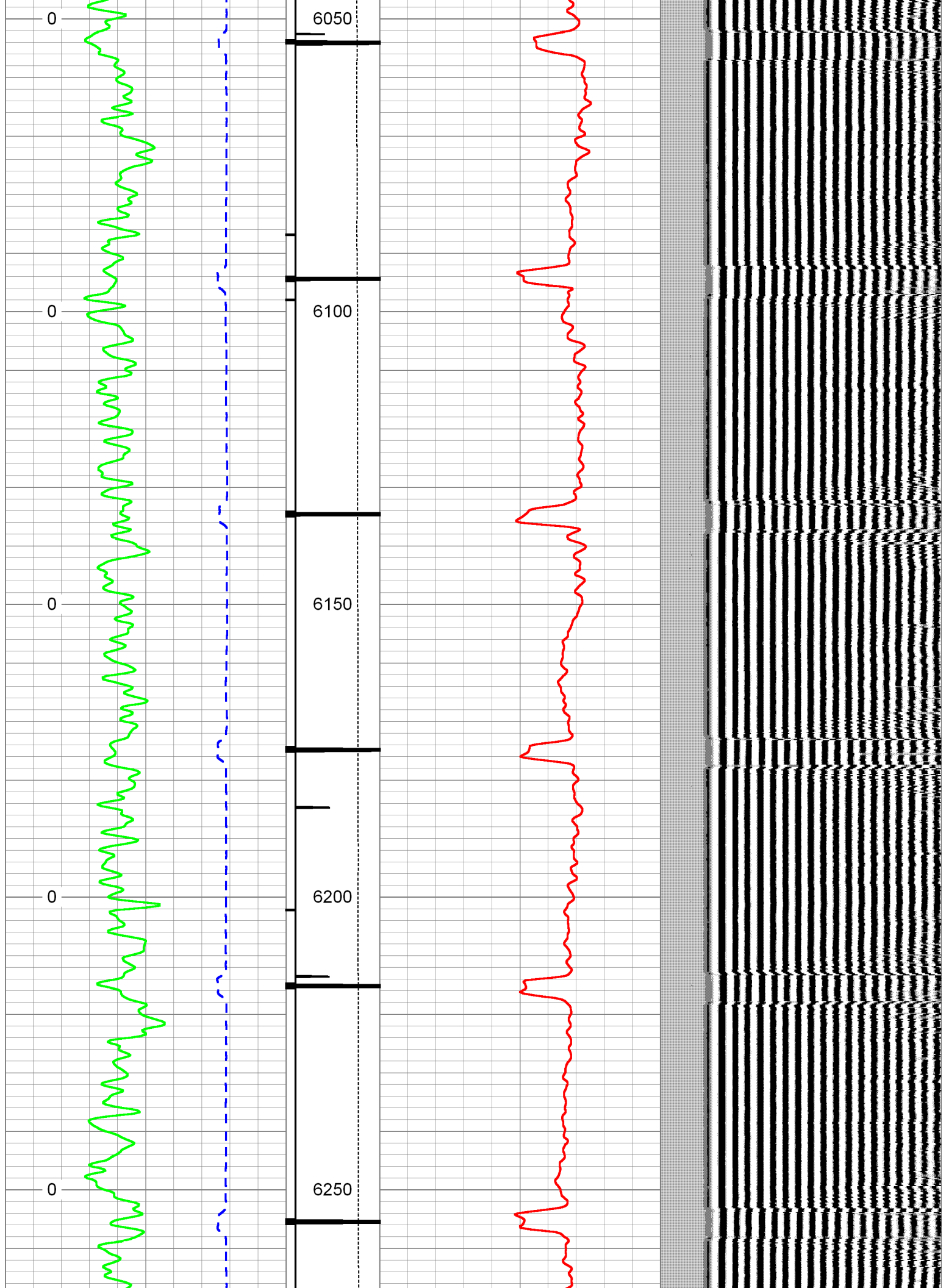


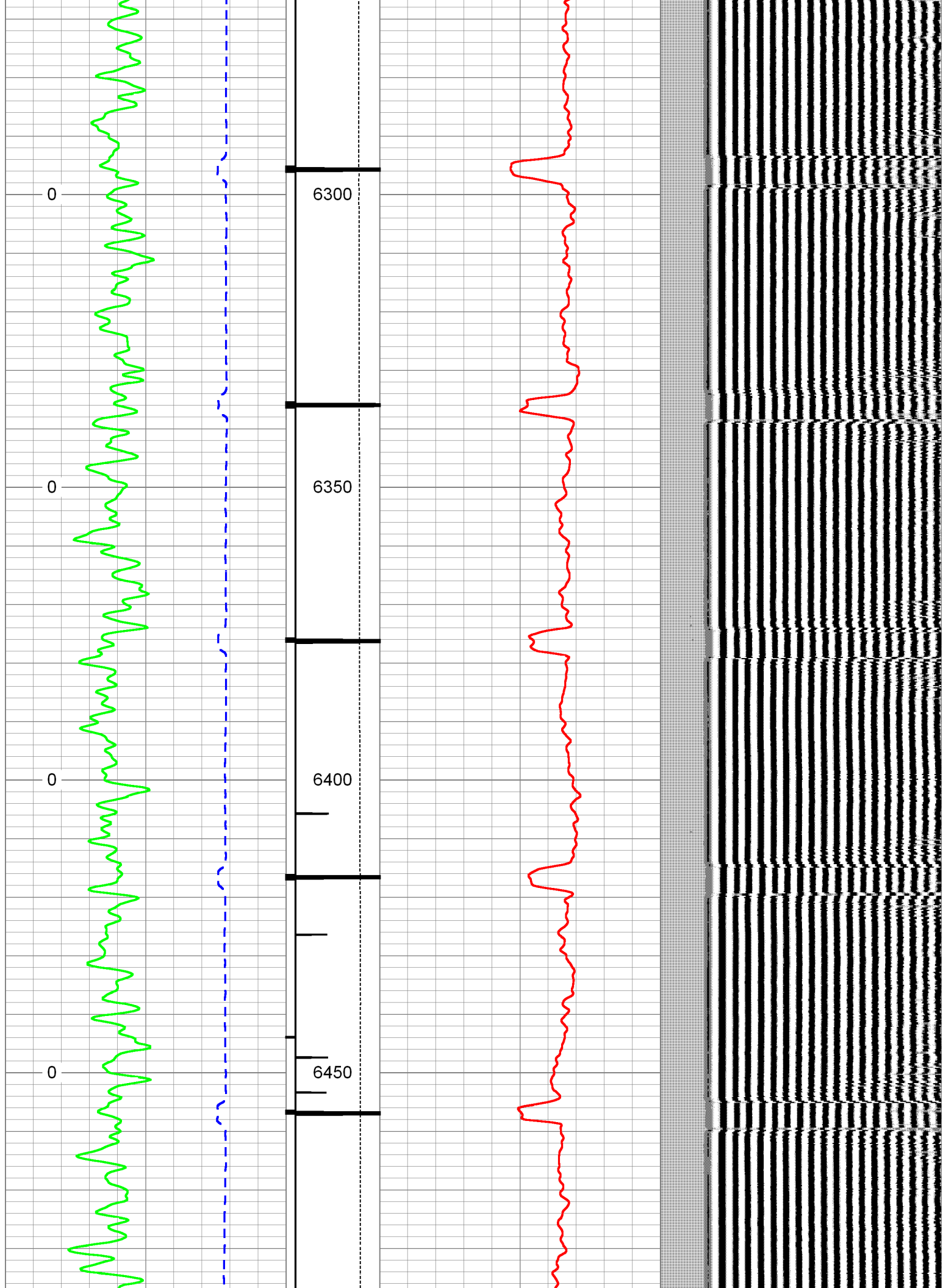


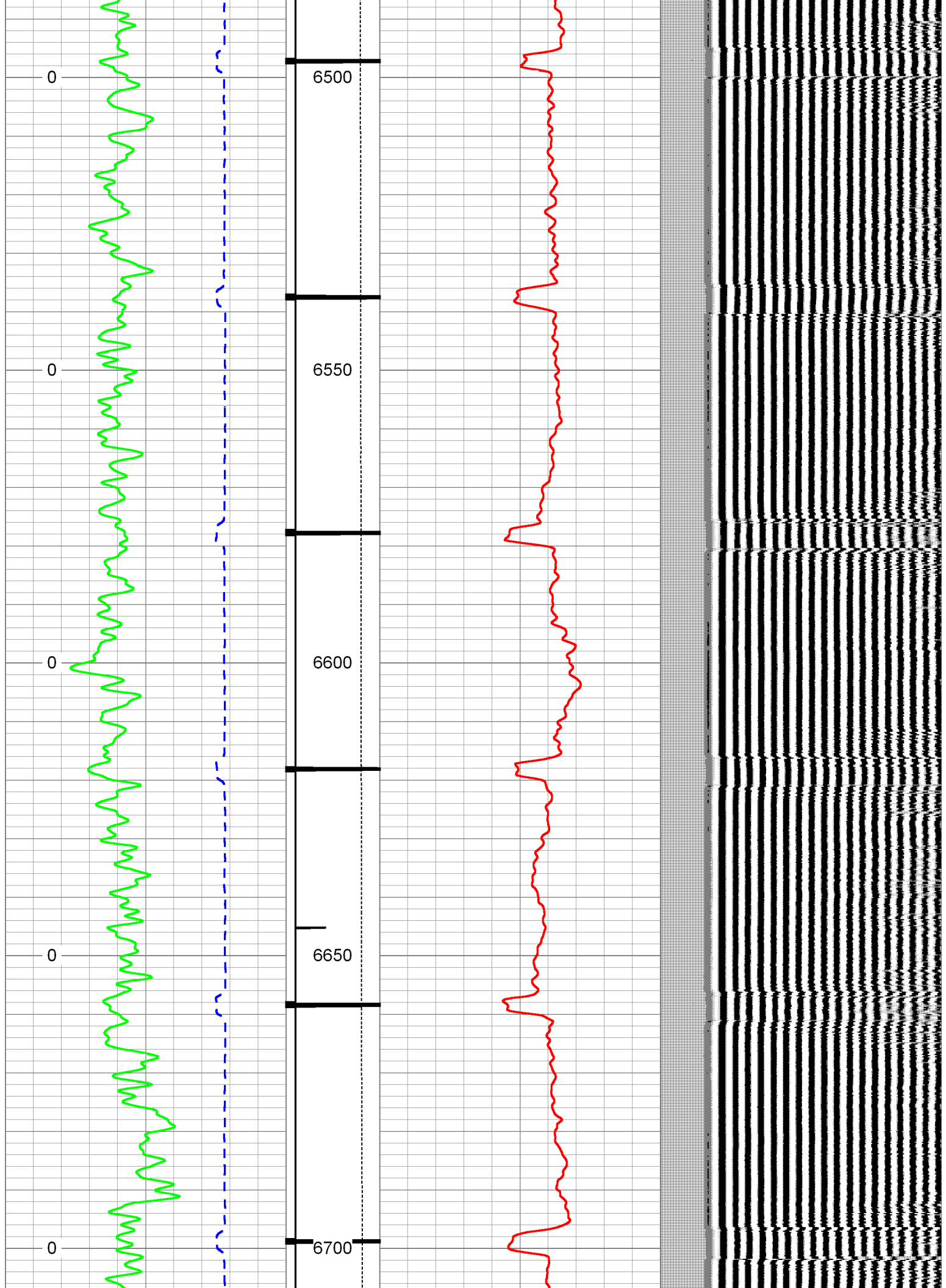


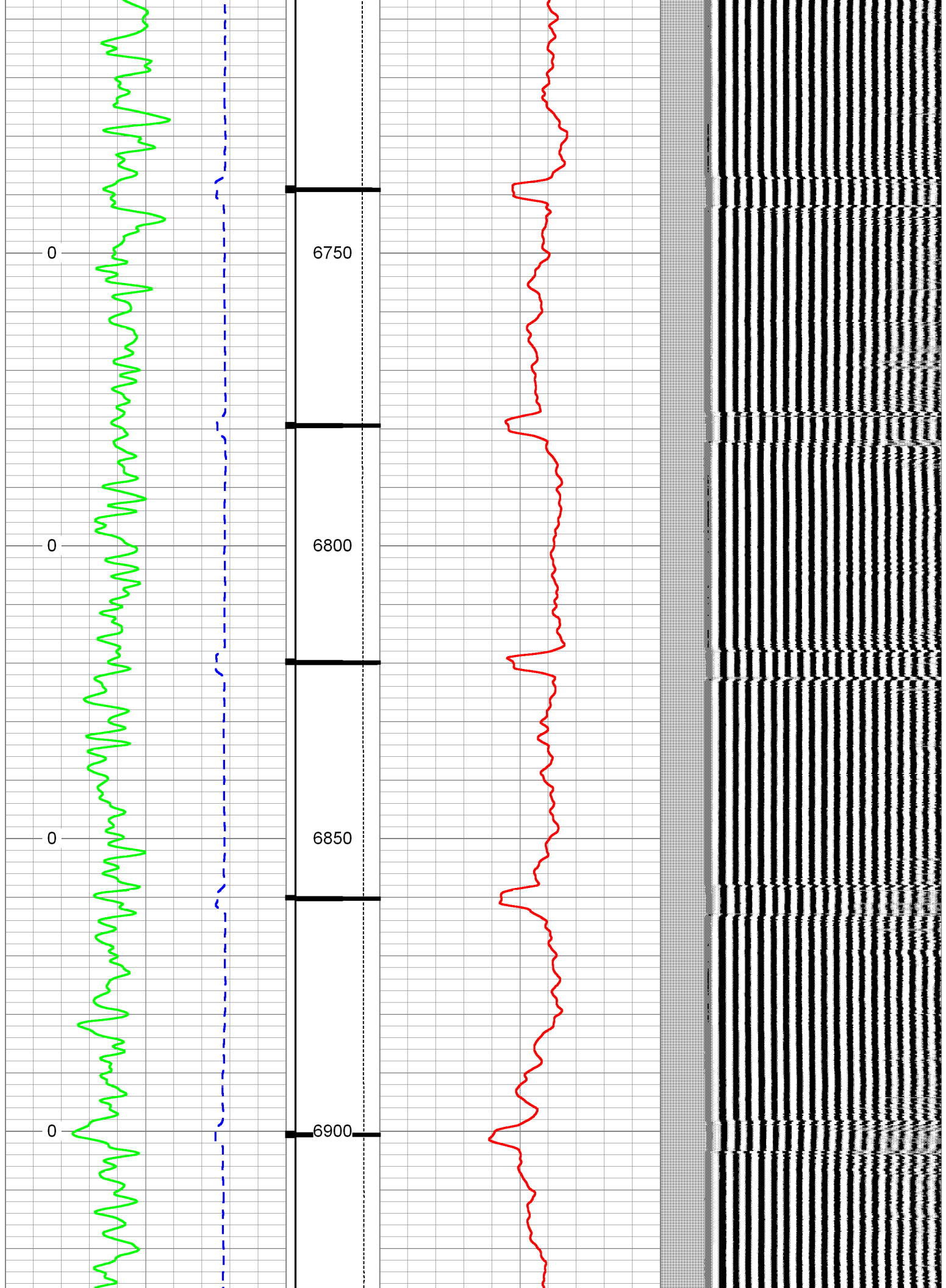


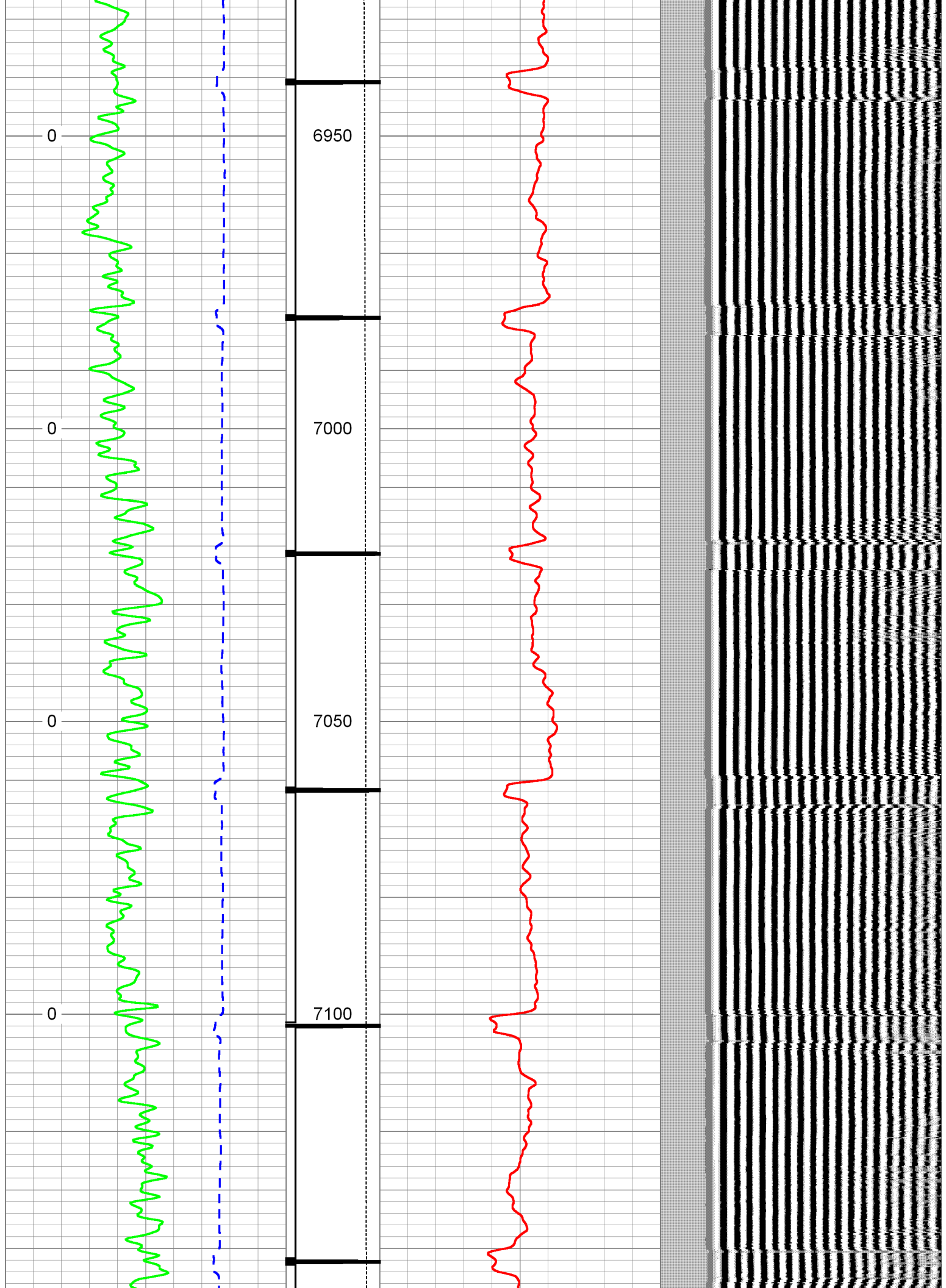


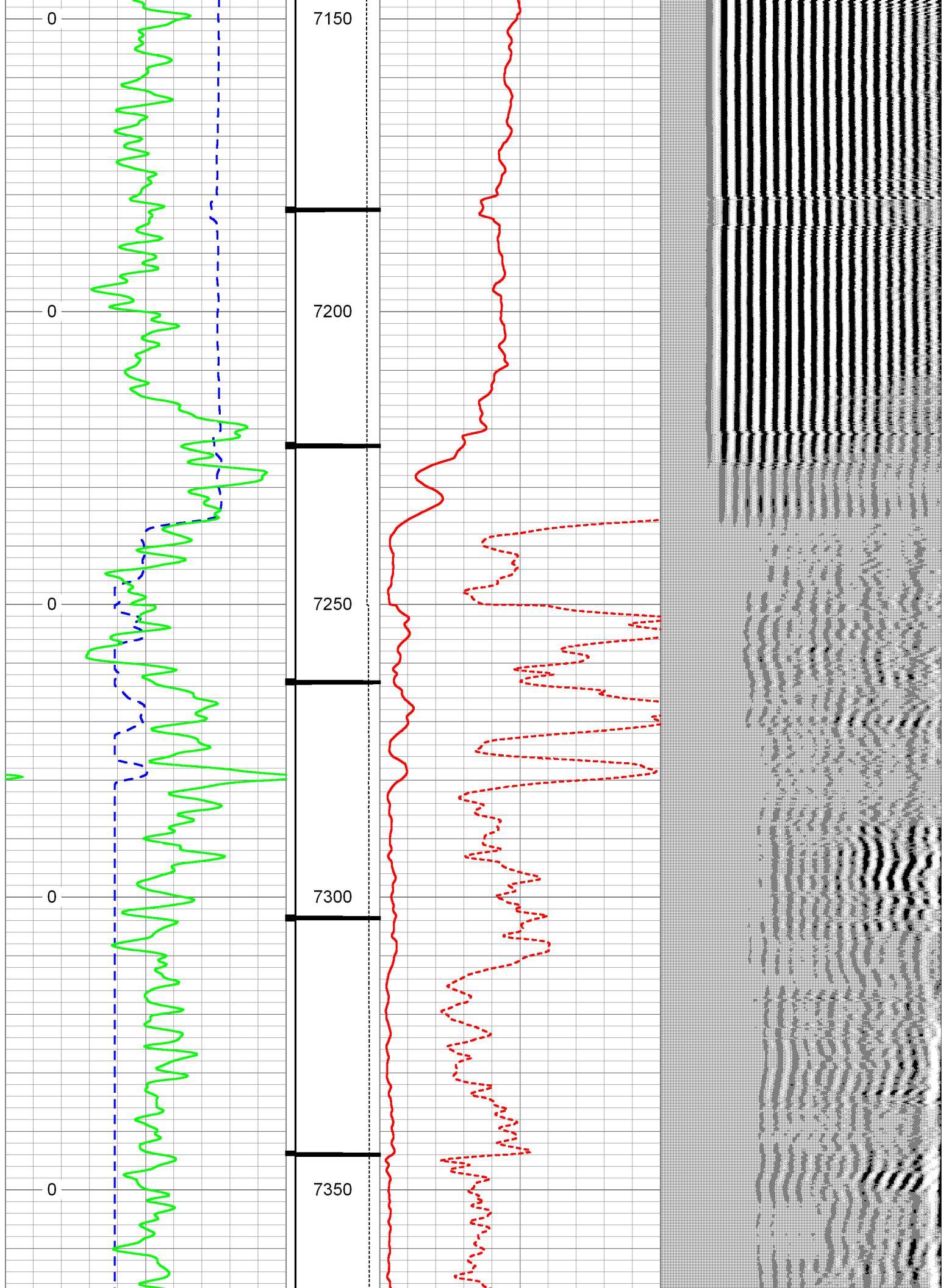


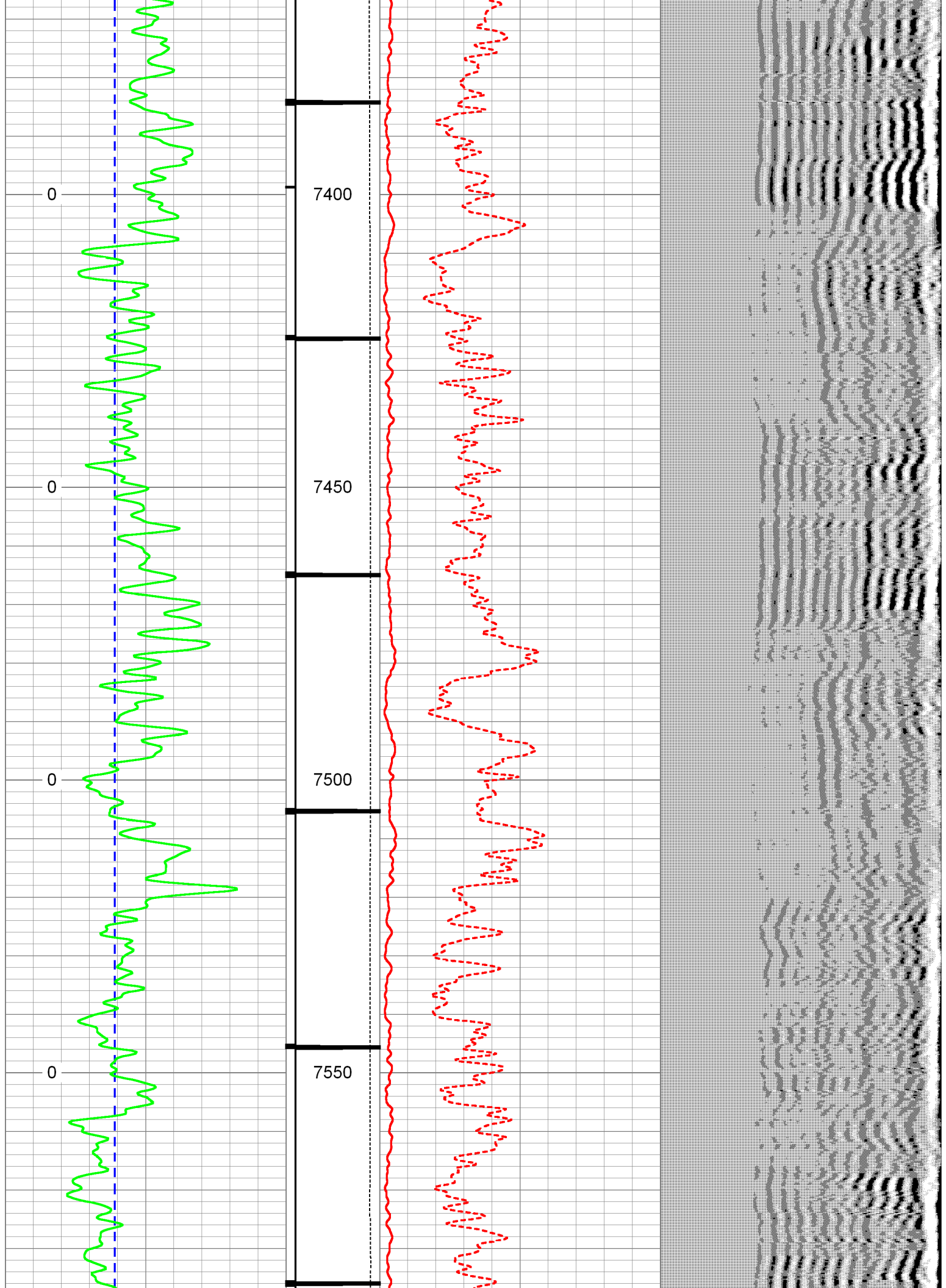


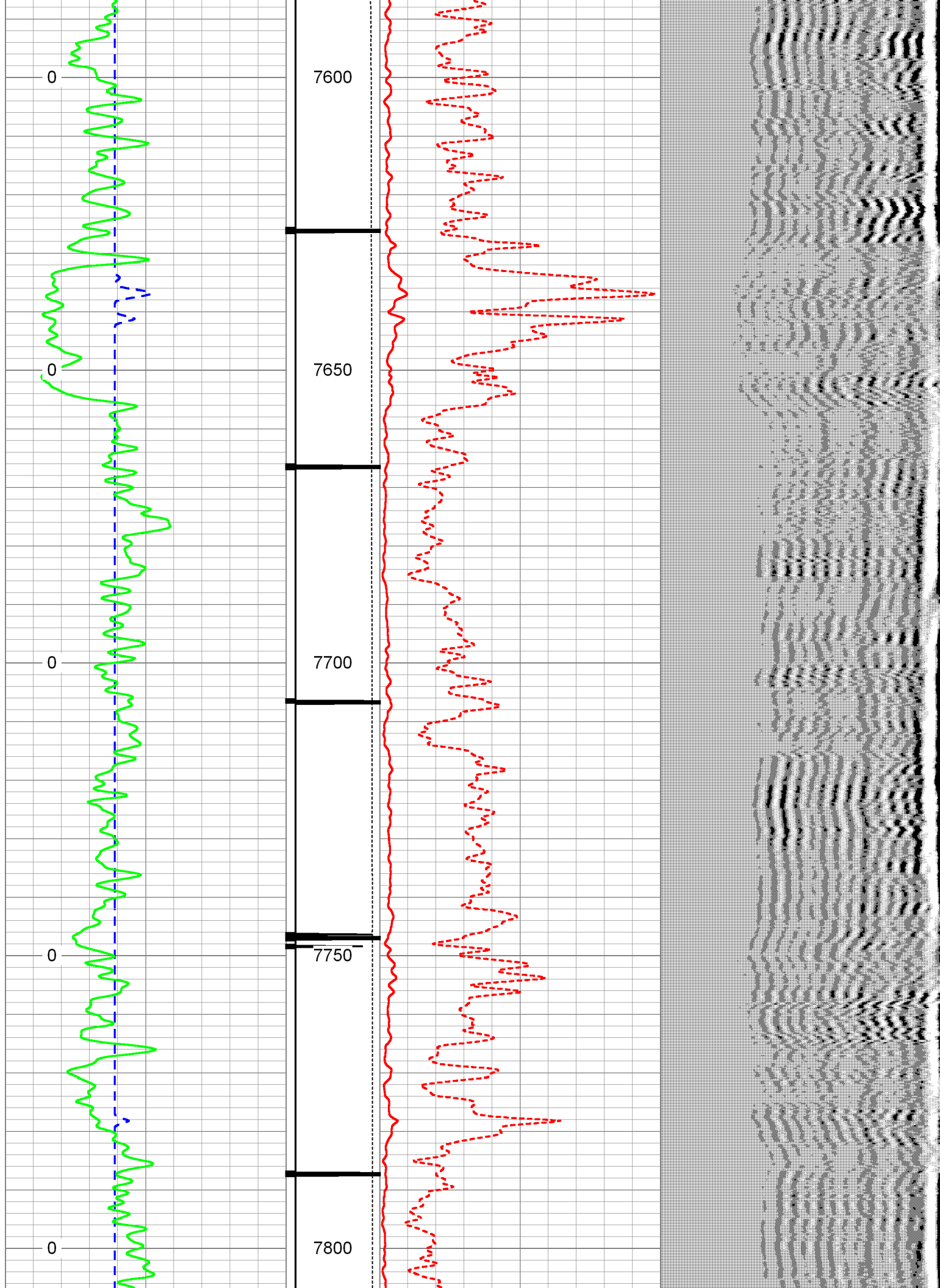


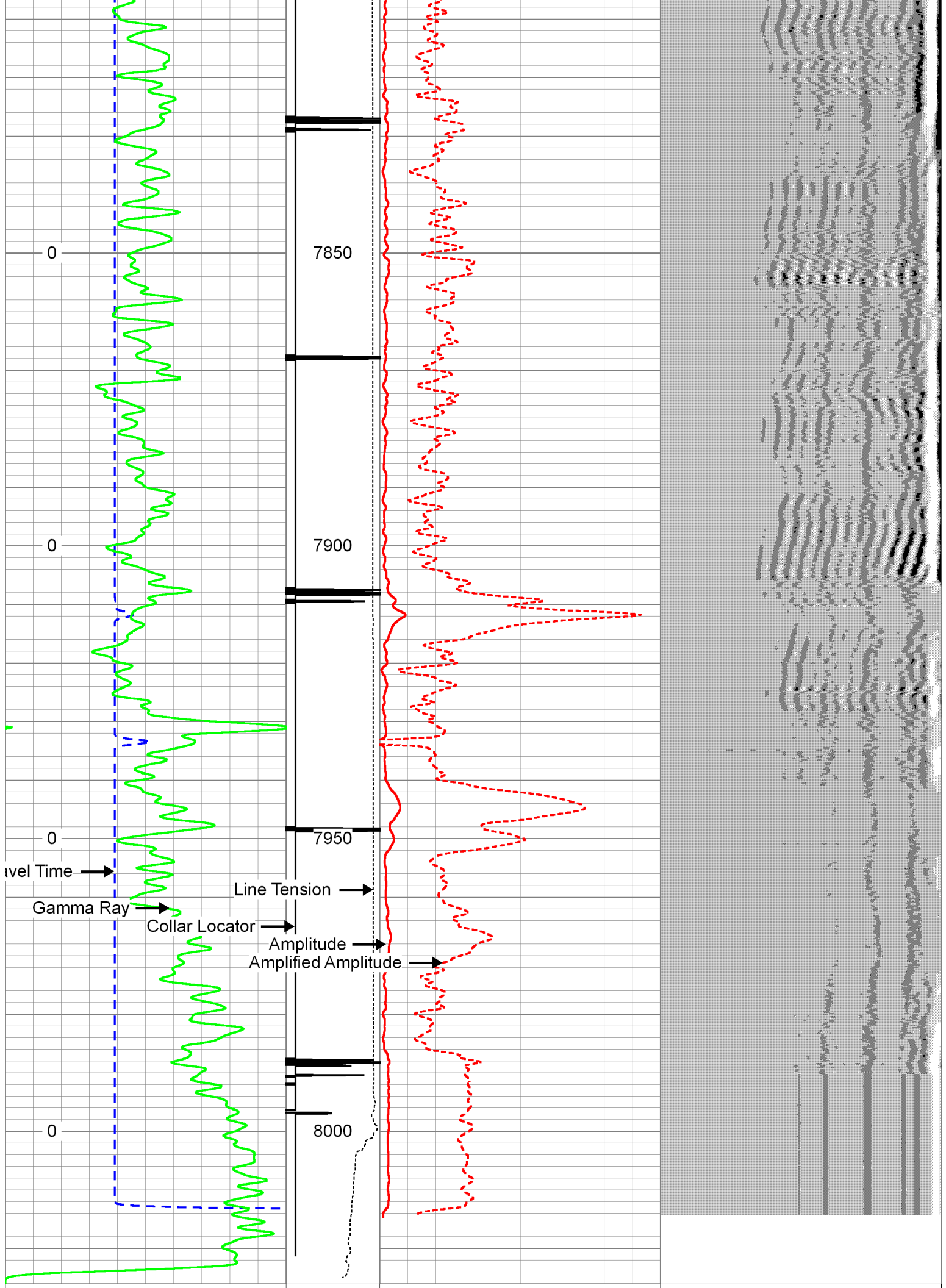












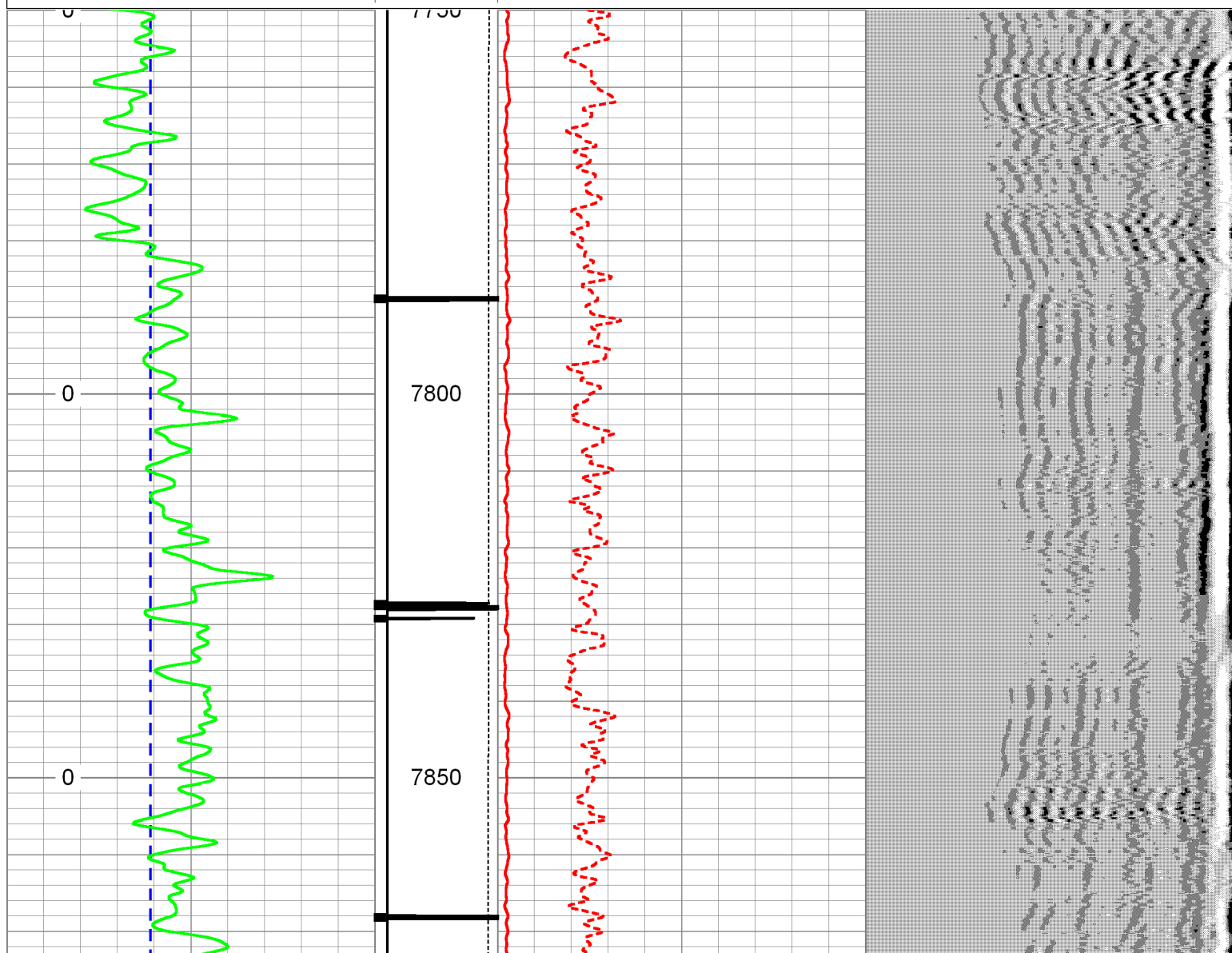
| | | | | | | | | | |
|--------|--------------------|-----|-----------------|------|--------------------------|----------------|-----|-----|------|
| 400 | Travel Time (usec) | 200 | Collar Location | 0 | Amplified Amplitude (mV) | 10 | 200 | VDL | 1200 |
| 0 | Gamma Ray (GAPI) | 150 | -1 | 9 | 0 | Amplitude (mV) | 100 | | |
| TEMP | | | Line Tension | | | | | | |
| (degF) | | | (lb) | | | | | | |
| | | | 0 | 1500 | | | | | |



REPEAT PASS 0 PSI

Database File: bailey-1.db
 Dataset Pathname: pass2
 Presentation Format: cbl_cs
 Dataset Creation: Sun Jan 20 12:44:11 2019 by Log 0
 Charted by: Depth in Feet scaled 1:240

| | | | | | | | | | |
|--------|--------------------|-----|-----------------|------|--------------------------|----------------|-----|-----|------|
| 400 | Travel Time (usec) | 200 | Collar Location | 0 | Amplified Amplitude (mV) | 10 | 200 | VDL | 1200 |
| 0 | Gamma Ray (GAPI) | 150 | -1 | 9 | 0 | Amplitude (mV) | 100 | | |
| TEMP | | | Line Tension | | | | | | |
| (degF) | | | (lb) | | | | | | |
| | | | 0 | 1500 | | | | | |



Gamma Ray Calibration Report

| | | |
|---------------------|--------------------------|----------|
| Serial Number: | 080220 | |
| Tool Model: | Probe | |
| Performed: | Sun Jan 20 09:04:24 2019 | |
| Calibrator Value: | 450.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 250.0 | cps |
| Sensitivity: | 0.5000 | GAPI/cps |

Segmented Cement Bond Log Calibration Report

| | | |
|------------------------------|----------|----|
| Serial Number: | 080840 | |
| Tool Model: | Probe | |
| Calibration Casing Diameter: | 4.500 | in |
| Calibration Depth: | 1599.517 | ft |

Master Calibration, performed Sun Jan 20 07:56:44 2019:

| | Raw (v) | | Calibrated (mv) | | Results | |
|-----|---------|-------|-----------------|--------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | -0.002 | 0.500 | 1.000 | 81.000 | 159.358 | 1.305 |
| CAL | 1.161 | 0.718 | | | | |
| 5' | -0.002 | 0.433 | 1.000 | 81.000 | 184.183 | 1.319 |
| SUM | | | | | | |
| S1 | 0.034 | 0.545 | 1.000 | 70.000 | 135.049 | -3.571 |
| S2 | 0.005 | 0.483 | 1.000 | 70.000 | 144.292 | 0.287 |
| S3 | 0.000 | 0.486 | 1.000 | 70.000 | 142.194 | 0.960 |
| S4 | 0.002 | 0.482 | 1.000 | 70.000 | 143.697 | 0.718 |
| S5 | 0.001 | 0.480 | 1.000 | 70.000 | 144.056 | 0.891 |
| S6 | 0.001 | 0.473 | 1.000 | 70.000 | 146.153 | 0.886 |
| S7 | 0.000 | 0.474 | 1.000 | 70.000 | 145.652 | 1.000 |
| S8 | 0.001 | 0.464 | 1.000 | 70.000 | 149.020 | 0.898 |

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

| | Raw (v) | | Calibrated (v) | | Results | |
|-----|---------|-------|----------------|-------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.000 | 1.161 | 0.718 | 1.000 | 0.000 |

Air Zero Calibration, performed Sun Jan 20 07:43:26 2019:

| | Raw (v) | | Calibrated (v) | | Results | |
|-----|---------|--|----------------|--|---------|--|
| | Zero | | Zero | | Offset | |
| 3' | 0.000 | | 0.000 | | 0.000 | |
| 5' | 0.000 | | 0.000 | | 0.000 | |
| SUM | | | | | | |
| S1 | 0.000 | | 0.000 | | 0.000 | |
| S2 | 0.000 | | 0.000 | | 0.000 | |
| S3 | 0.000 | | 0.000 | | 0.000 | |
| S4 | 0.000 | | 0.000 | | 0.000 | |
| S5 | 0.000 | | 0.000 | | 0.000 | |
| S6 | 0.000 | | 0.000 | | 0.000 | |
| S7 | 0.000 | | 0.000 | | 0.000 | |

| | | | |
|----|-------|-------|-------|
| S7 | 0.000 | 0.000 | 0.000 |
| S8 | 0.000 | 0.000 | 0.000 |

Temperature Calibration Report

Serial Number: 080840
Tool Model: Probe
Performed: Sun Jun 13 13:33:21 1993

| | Reference | Reading |
|-----------------|-----------|----------|
| Low Reference: | 0.00 degF | 0.00 cps |
| High Reference: | 1.00 degF | 1.00 cps |

Gain: 1.00
Offset: 0.00
Delta Spacing 1



Company GREAT WESTERN OIL & GAS

Well BAILEY #1

Field WATTENBERG

County ADAMS

State CO

Country