



| Sensor       | Offset (ft)    | Schematic | Description           | Length (ft) | O.D. (in) | Weight (lb) |
|--------------|----------------|-----------|-----------------------|-------------|-----------|-------------|
|              |                |           | CENT-PENGO            | 4.25        | 3.00      | 70.00       |
| WVF4<br>WVF1 | 12.50<br>12.50 |           | SLT-PENGO Short (607) | 16.00       | 3.50      | 300.00      |
| WVF3<br>WVF2 | 10.50<br>10.50 |           |                       |             |           |             |
|              |                |           | CENT-PENGO            | 4.25        | 3.00      | 70.00       |

Dataset: am war\_schroeder 1-9.db: field/well/son/pass2  
 Total length: 24.50 ft  
 Total weight: 440.00 lb  
 O.D.: 3.50 in

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\am war\_schroeder 1-9.db  
 Dataset field/well/stkml/pass3.5/\_vars\_

## Top - Bottom

|           |              |                  |                   |                |                  |       |                  |
|-----------|--------------|------------------|-------------------|----------------|------------------|-------|------------------|
| A         | BOREID<br>in | BOTTEMP<br>degF  | CASEOD<br>in      | CASETHCK<br>in | FLUIDDEN<br>g/cc | M     | MATRXDEN<br>g/cc |
| 1         | 7.875        | 124              | 5.5               | 0              | 1                | 2     | 2.71             |
| NPORSEL   | PERFS        | SNDERR<br>mmho/m | SNDERRM<br>mmho/m | SPSHIFT<br>mV  | SRFTEMP<br>degF  | SZCOR | TDEPTH<br>ft     |
| Limestone | No           | -18              | -25               | 322            | 80               | Off   | 4781             |

## Variable Description

A : Cement Factor (a)  
 BOREID : Borehole I.D.  
 BOTTEMP : Bottom Hole Temperature  
 CASEOD : Casing O.D.  
 CASETHCK : Casing Thickness  
 FLUIDDEN : Fluid Density  
 M : Cement Exp (m)  
 MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select  
 PERFS : Perforation Flag  
 SNDERR : Deep Sonde Error Correction  
 SNDERRM : Medium Sonde Error Correction  
 SPSHIFT : S.P. Baseline Offset  
 SRFTEMP : Surface Temperature  
 SZCOR : CN Size Cor. ?  
 TDEPTH : Total Depth

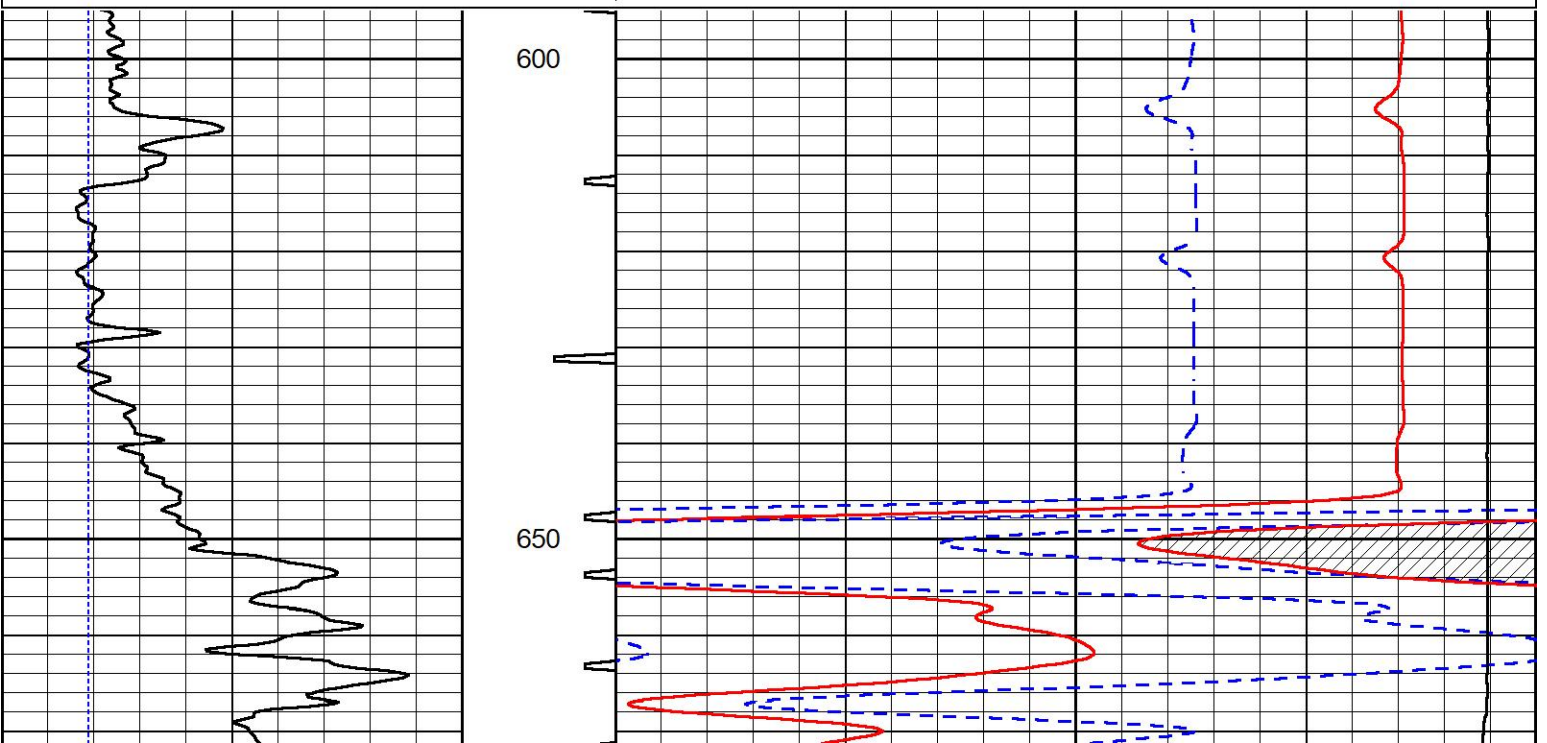


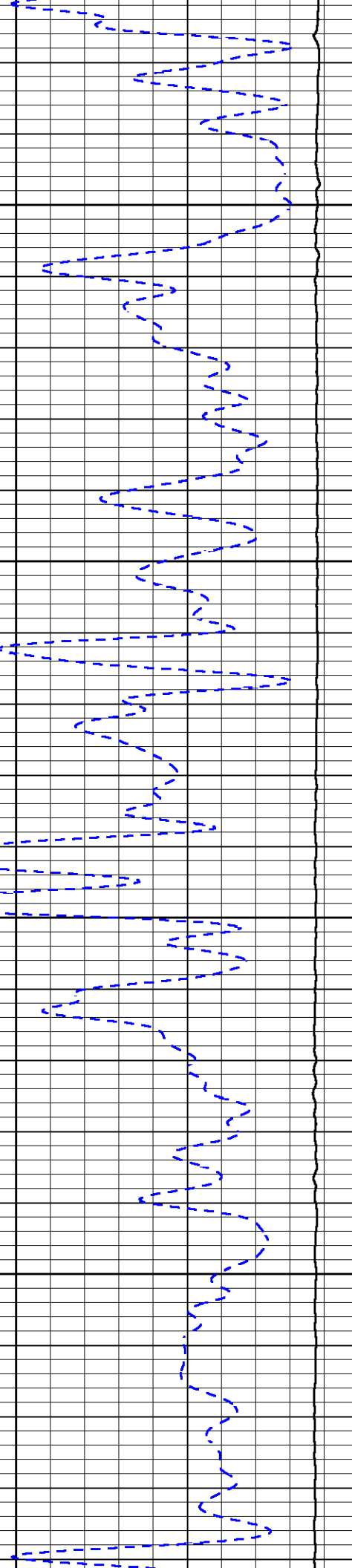
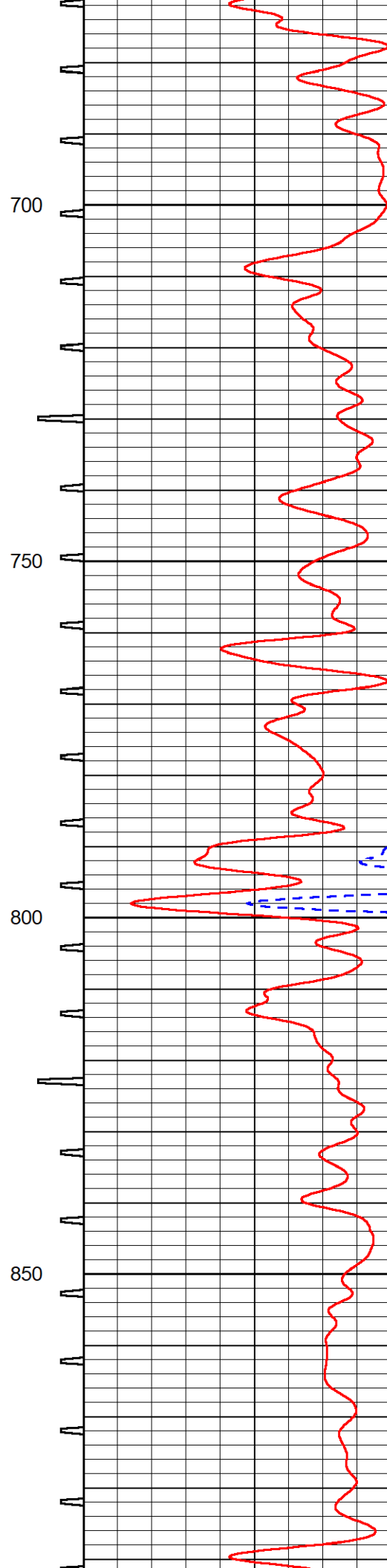
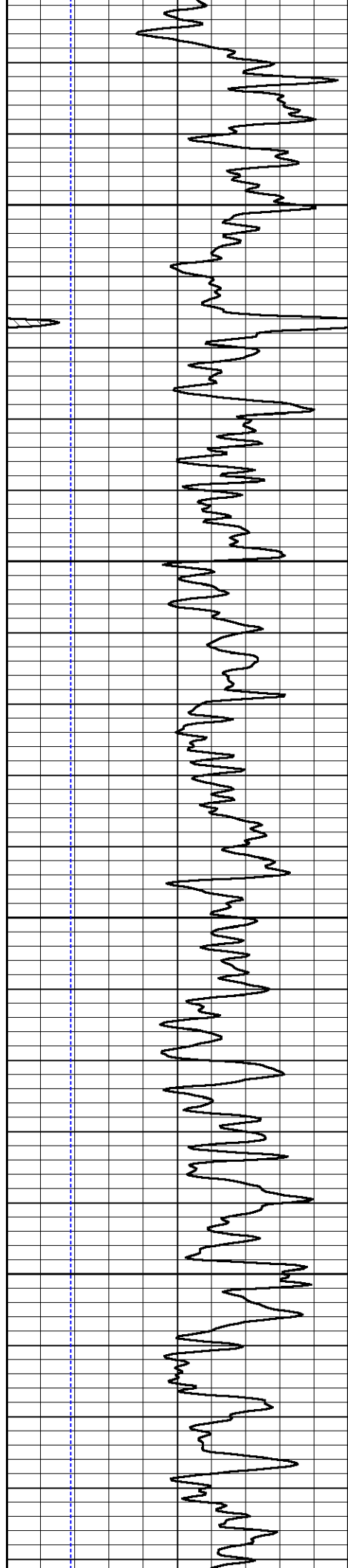
## DETAIL SECTION

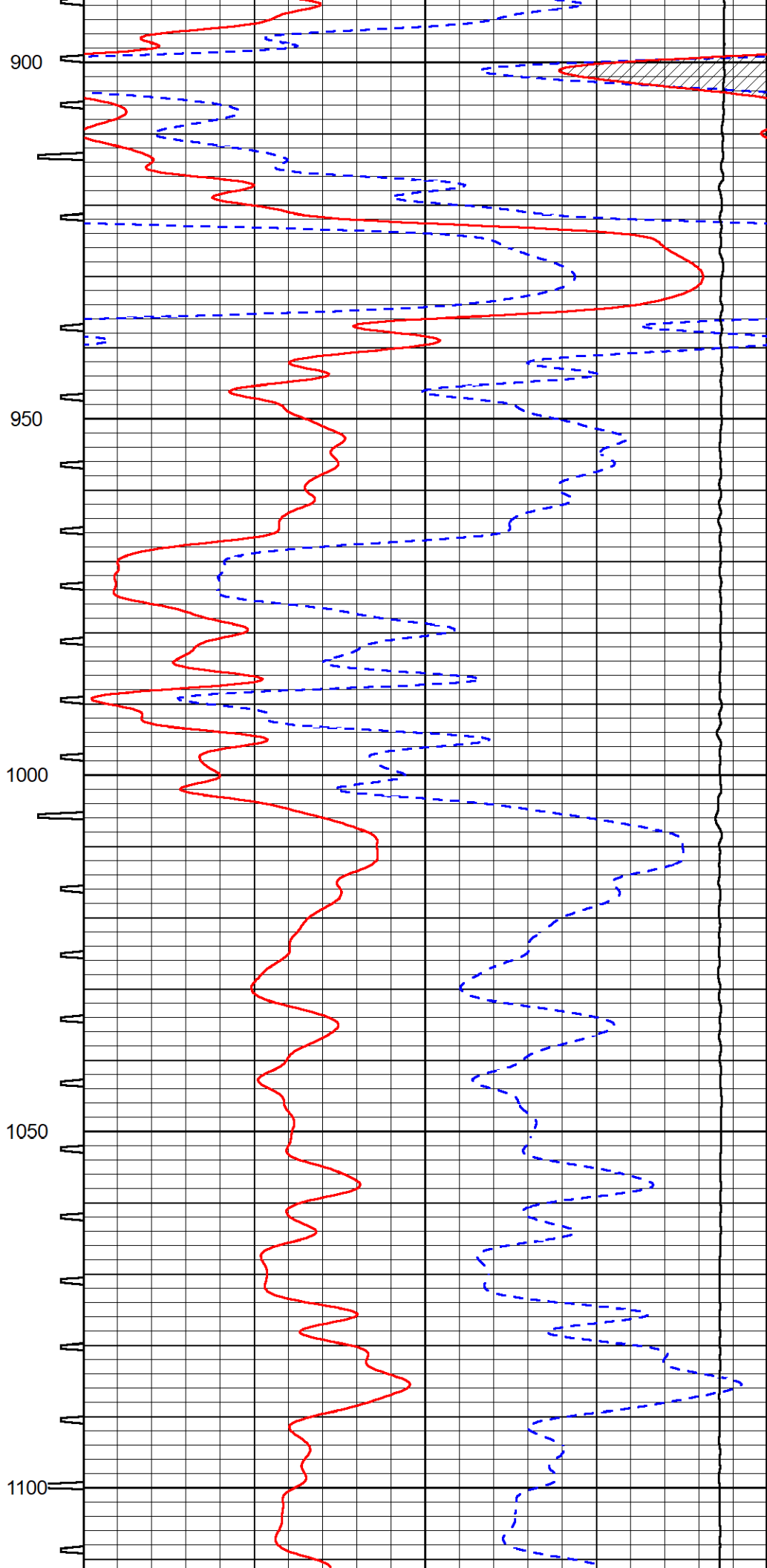
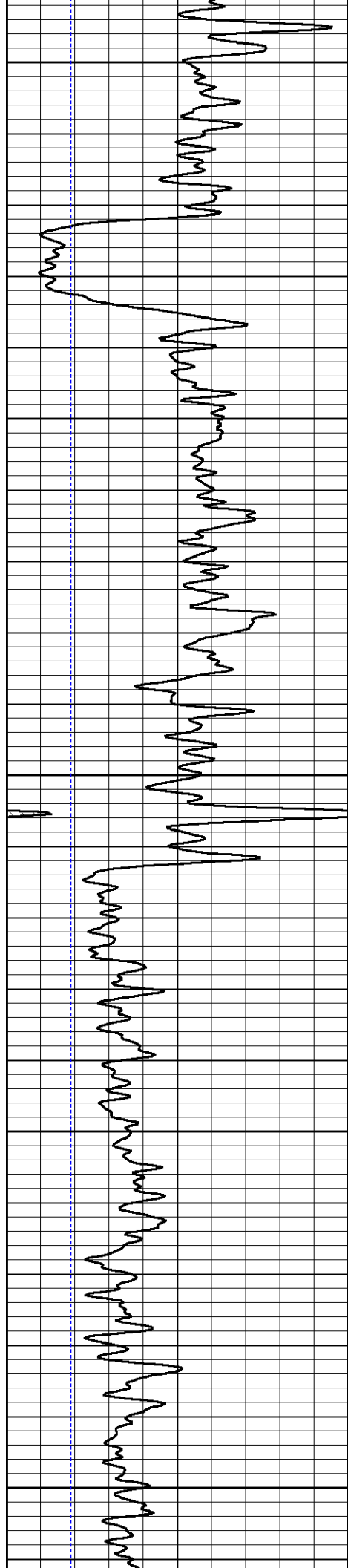
### MAIN PASS

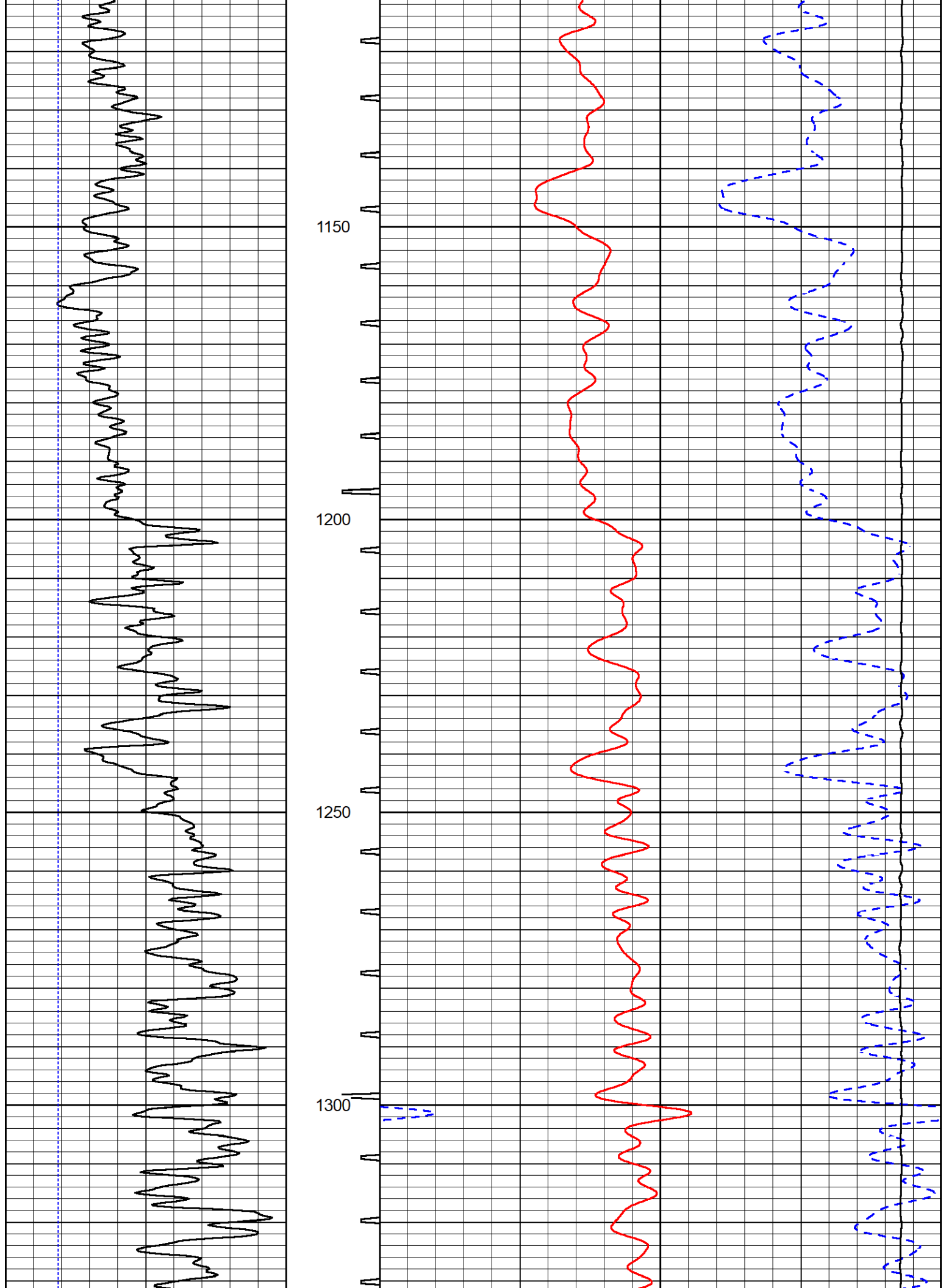
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 Dataset Pathname stkml/pass3.1  
 Presentation Format \_sonic  
 Dataset Creation Mon Oct 02 18:47:17 2023  
 Charted by Depth in Feet scaled 1:240

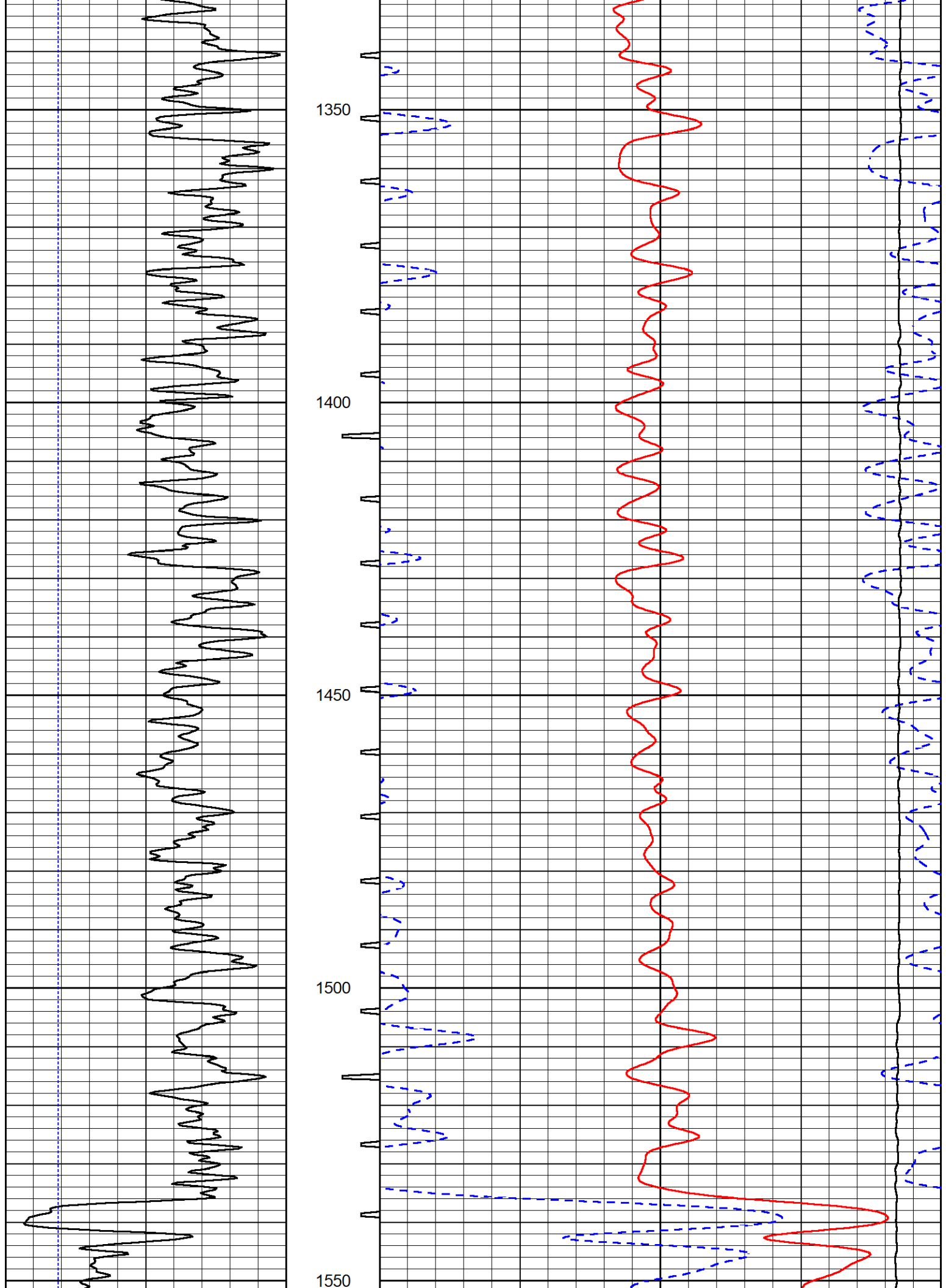
|     |                  |     |            |       |                                |     |
|-----|------------------|-----|------------|-------|--------------------------------|-----|
| 0   | Gamma Ray (GAPI) | 150 | Sonic Int  | 140   | Delta Time (usec/ft) (usec/ft) | 40  |
| 150 | GR (GAPI)        | 300 | 5 (msec) 0 | 30    | Sonic Porosity (pu) (pu)       | -10 |
|     |                  |     |            | 15000 | Line Tension (lb)              | 0   |

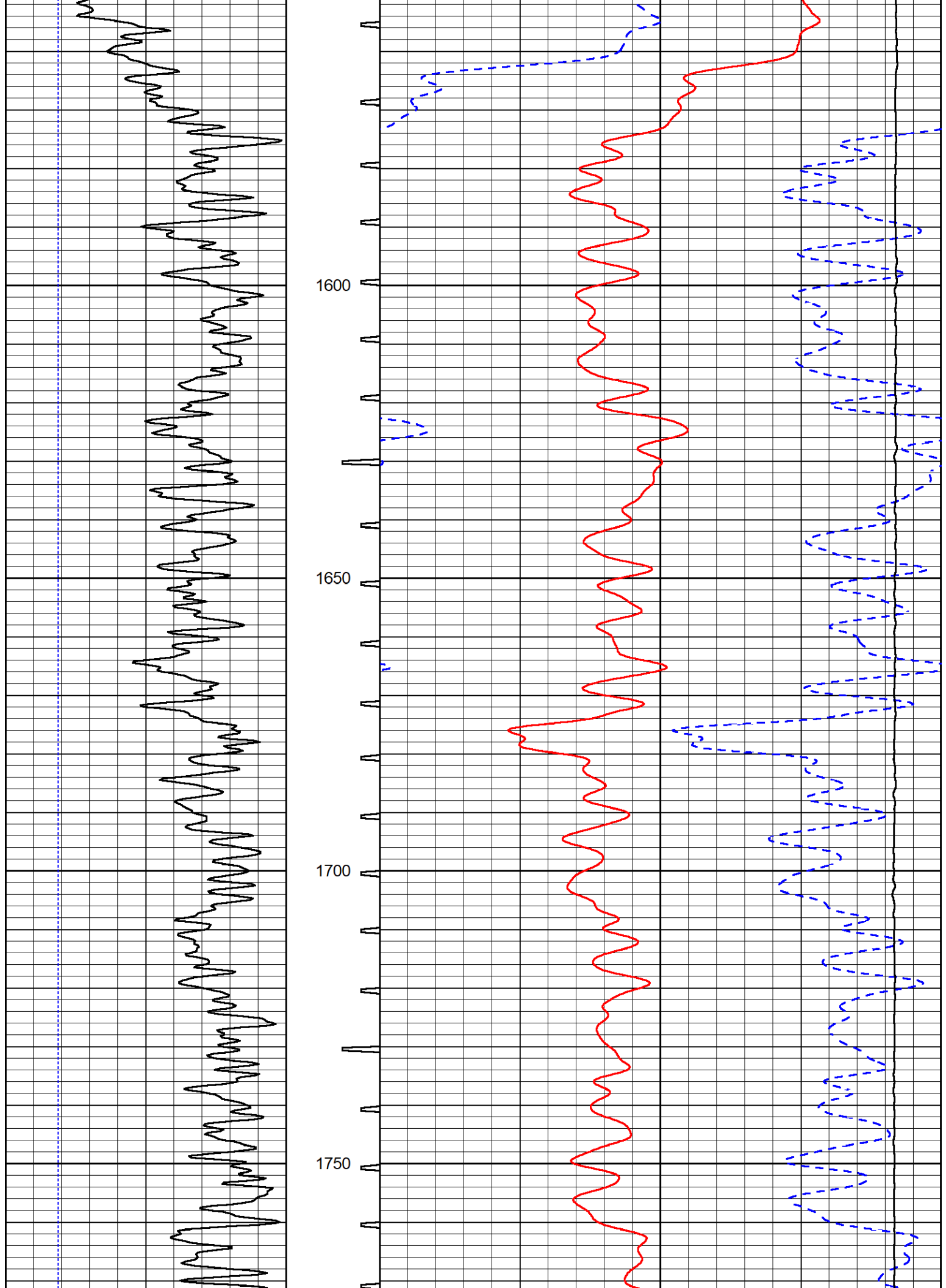


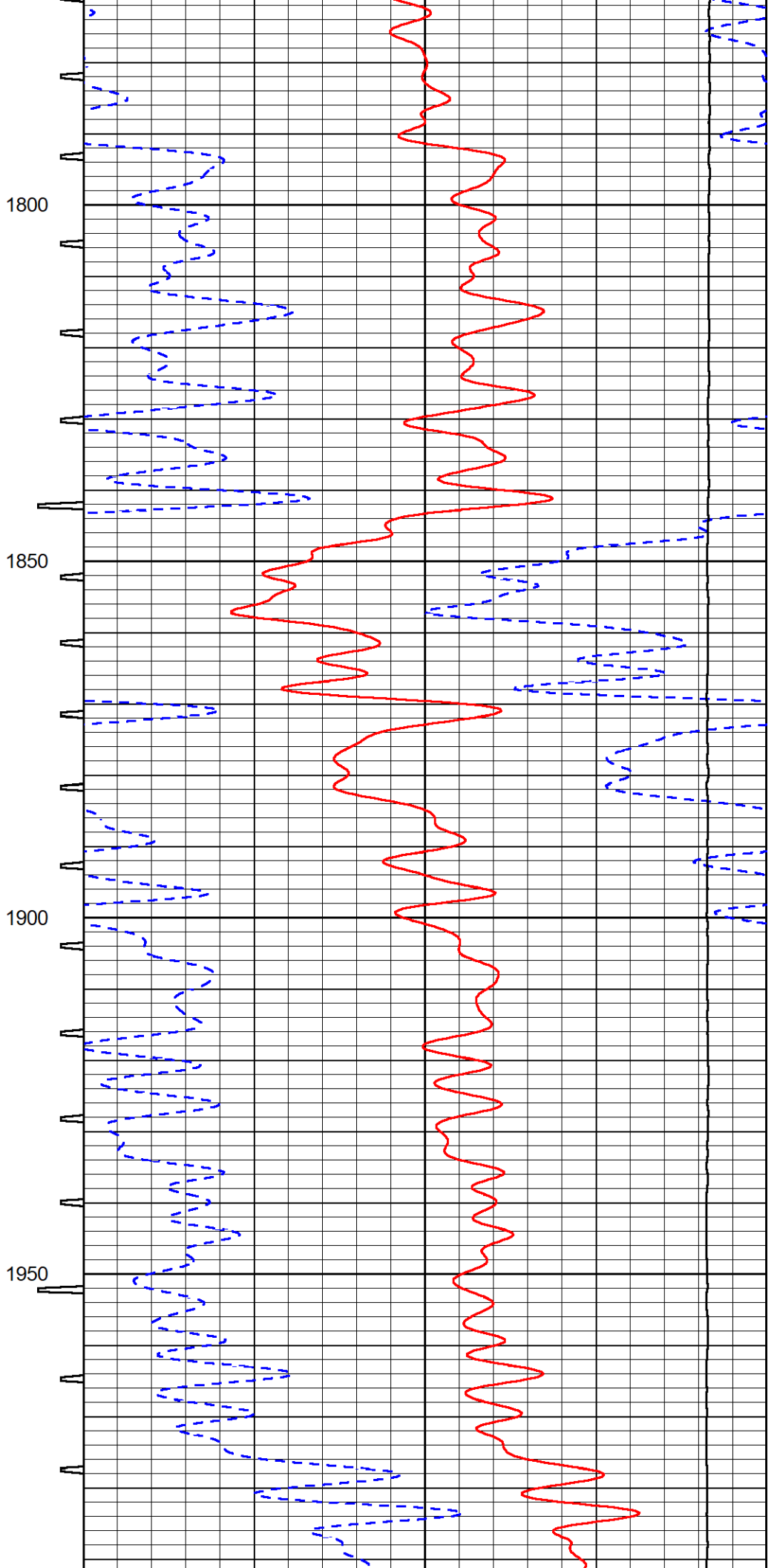
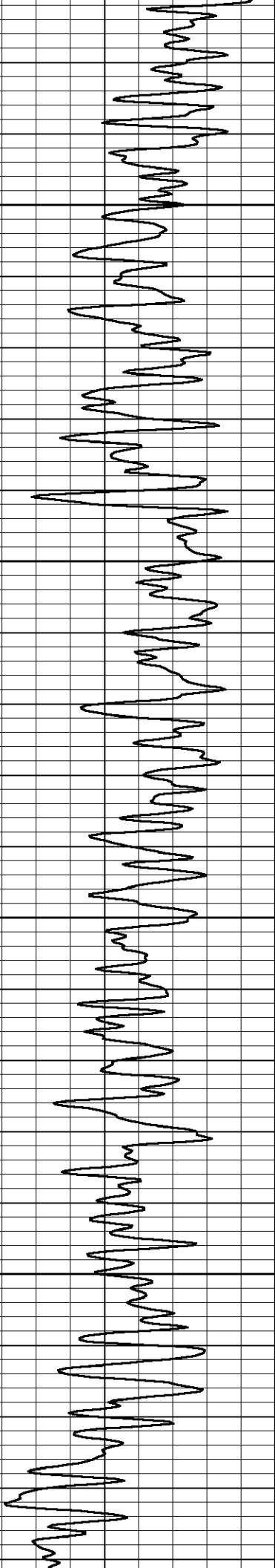


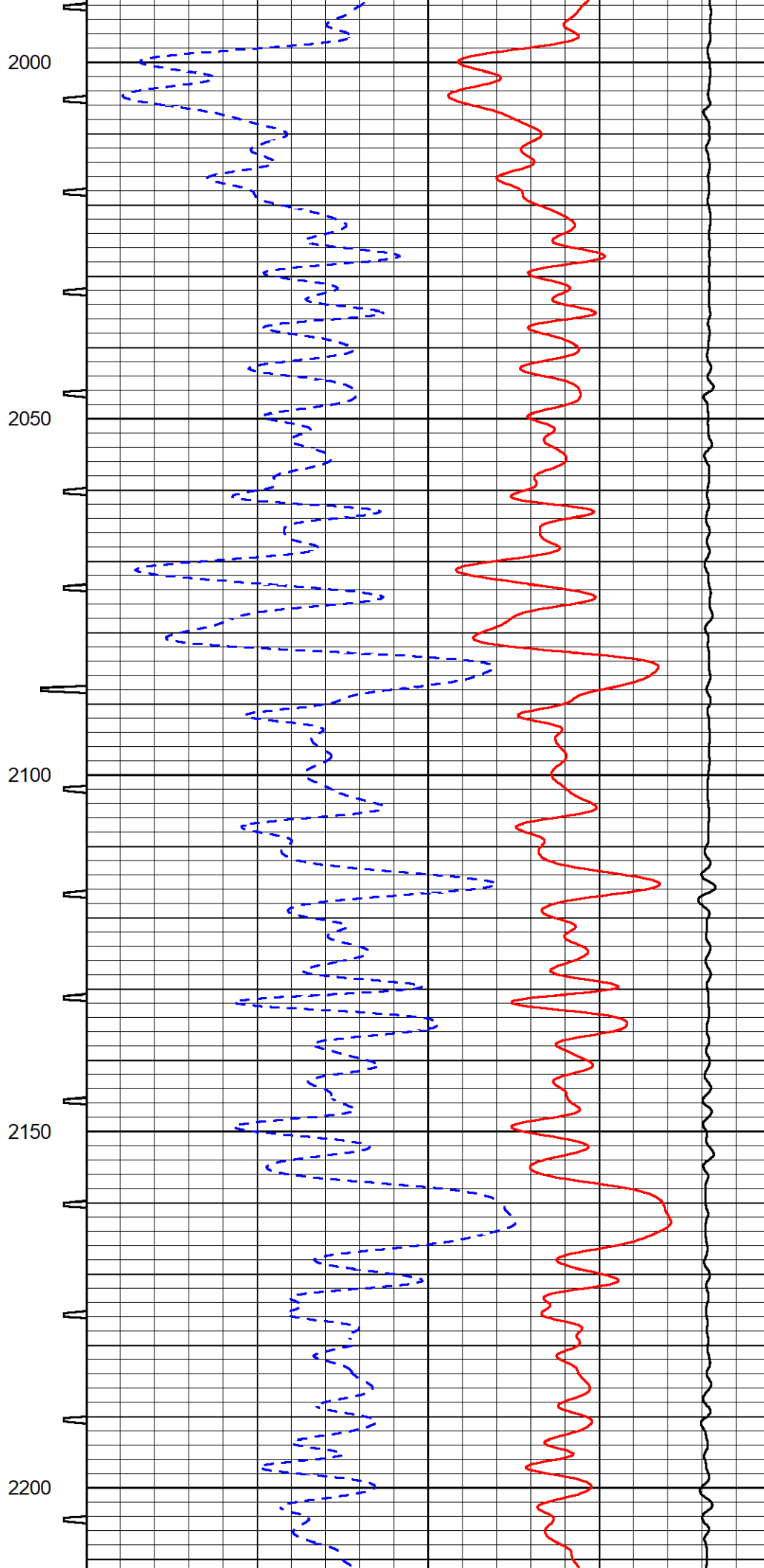
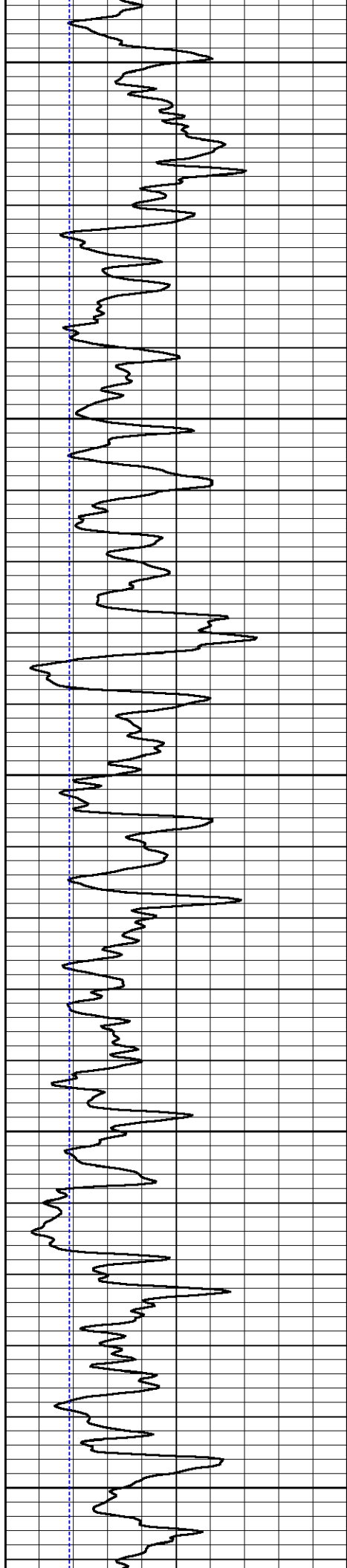


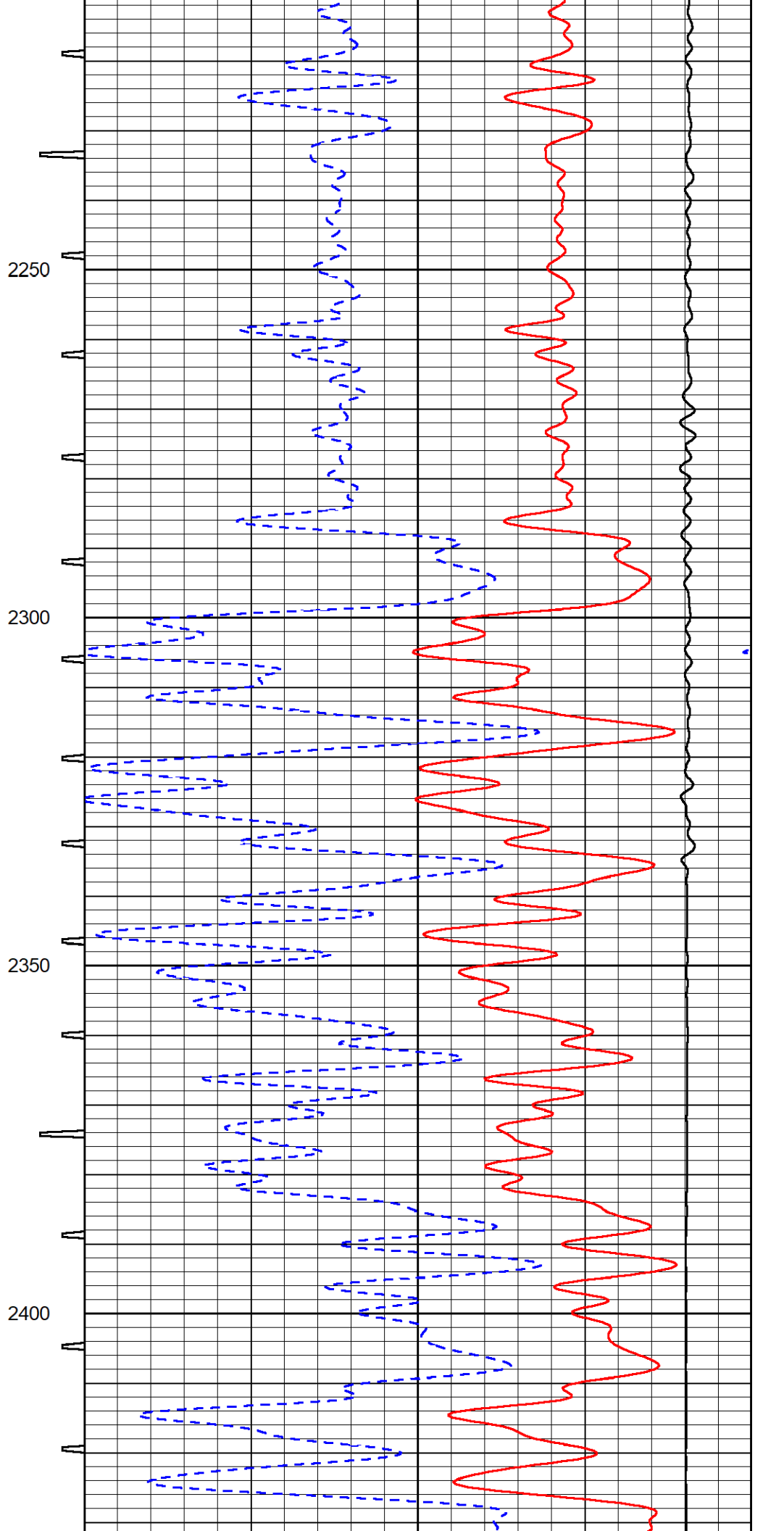
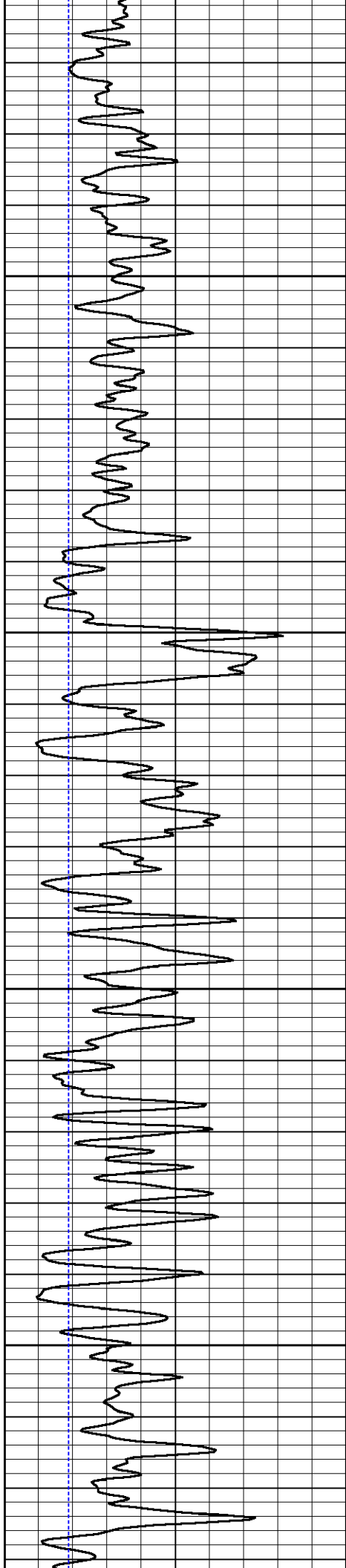


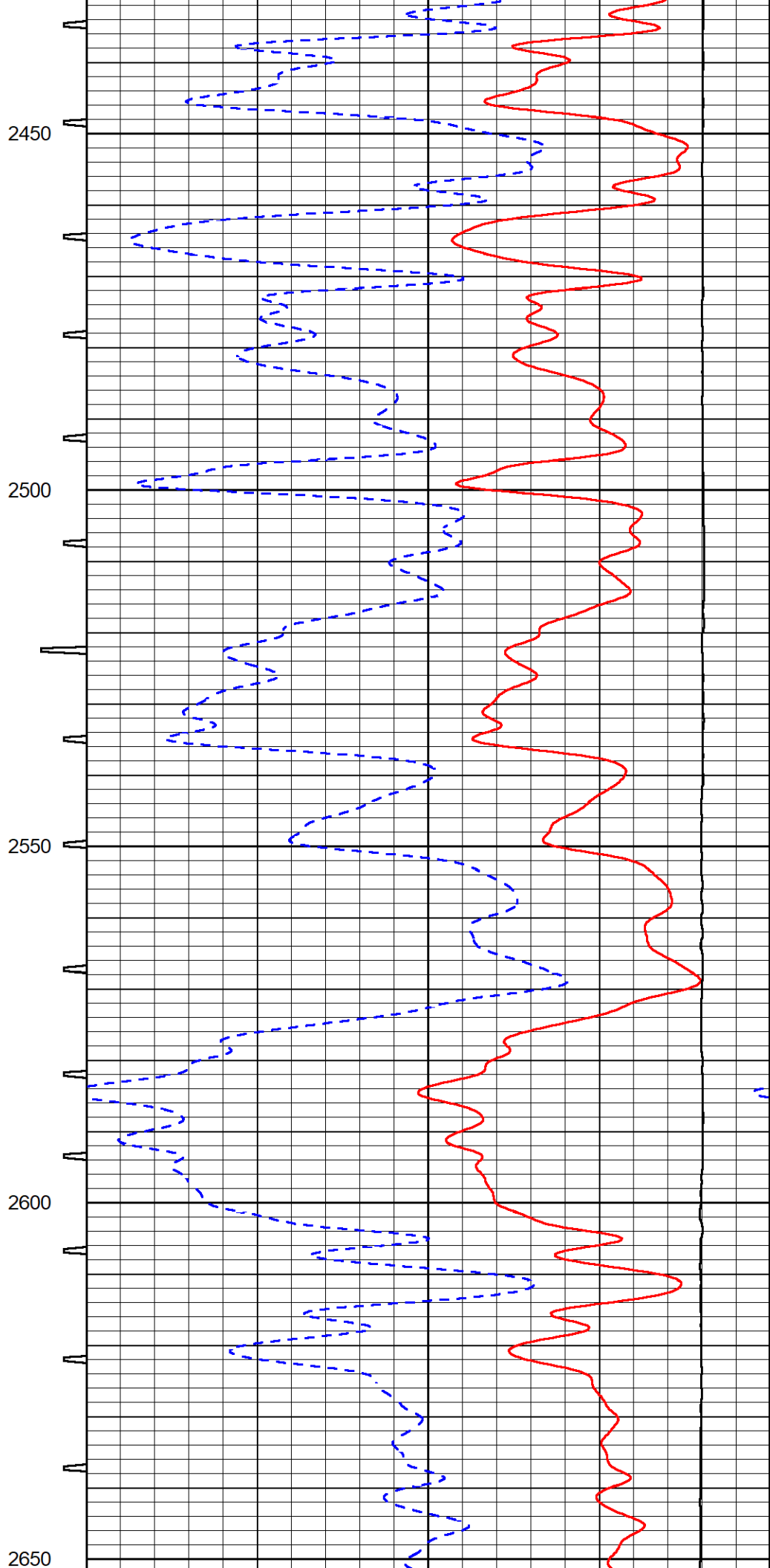
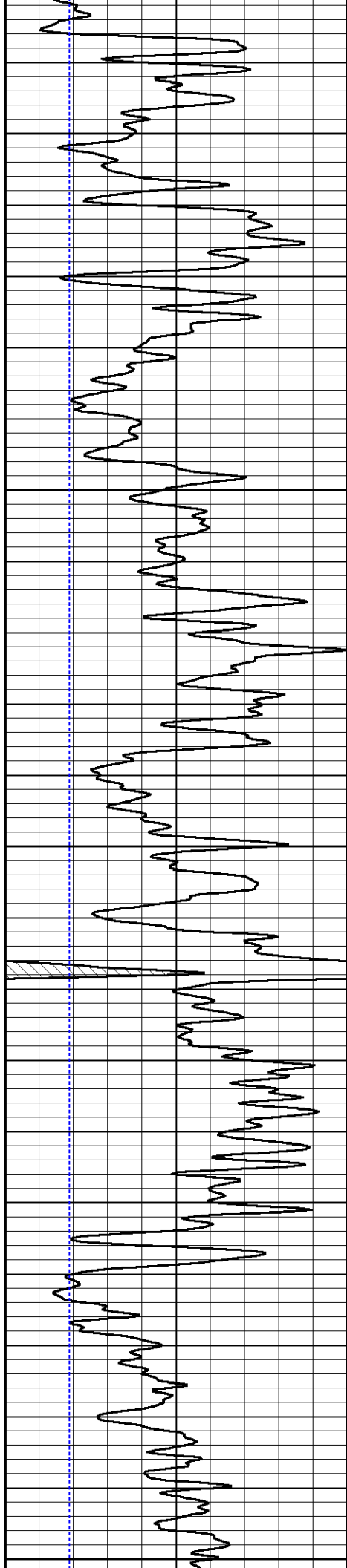


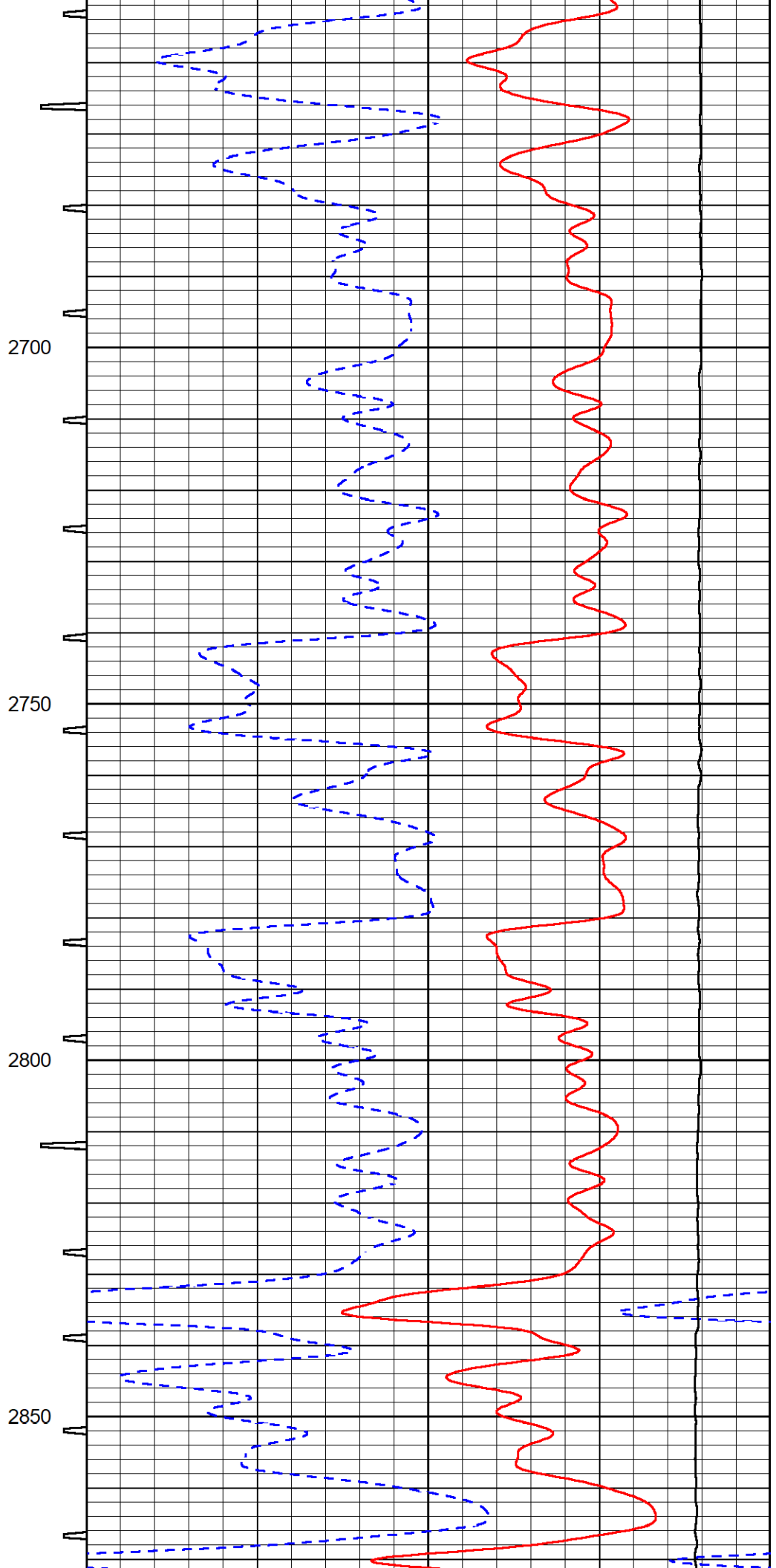
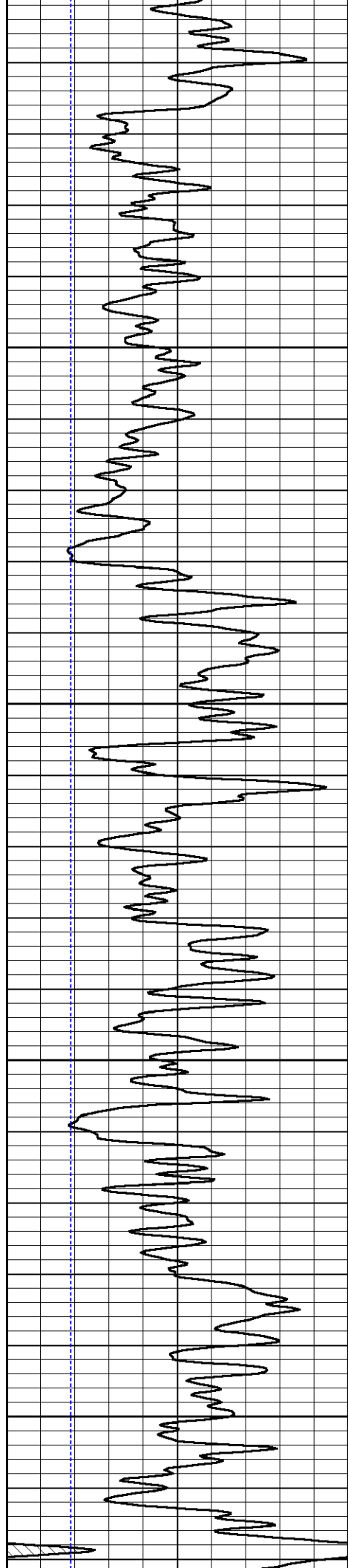


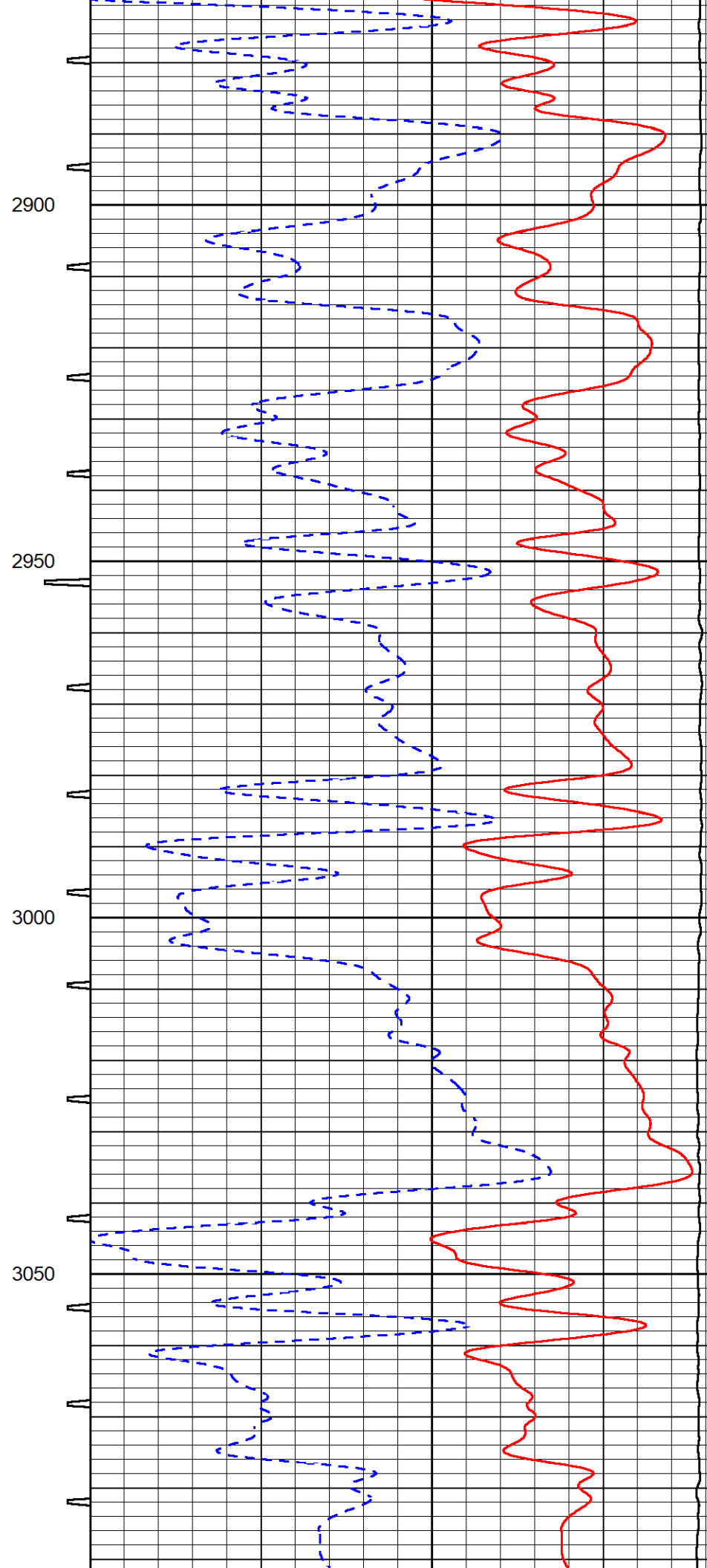
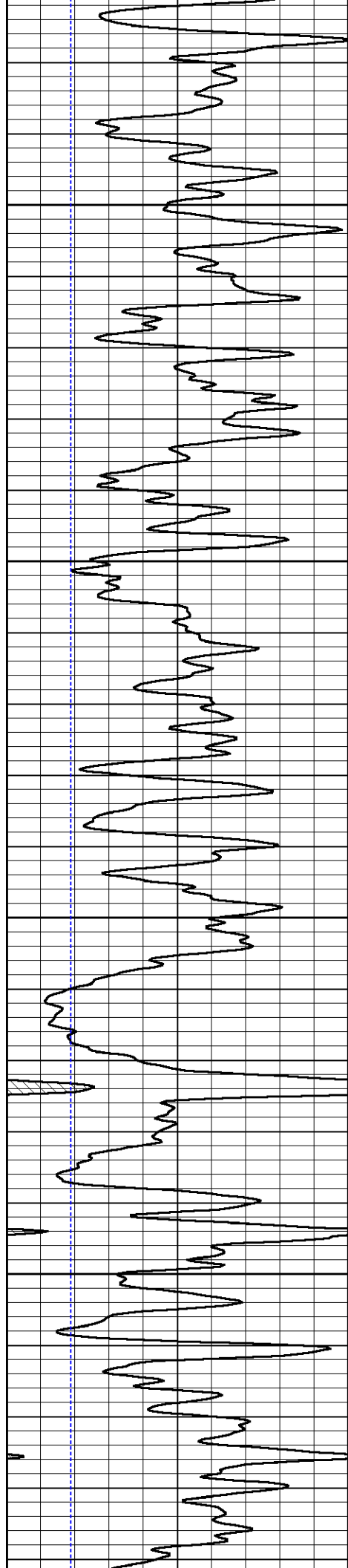


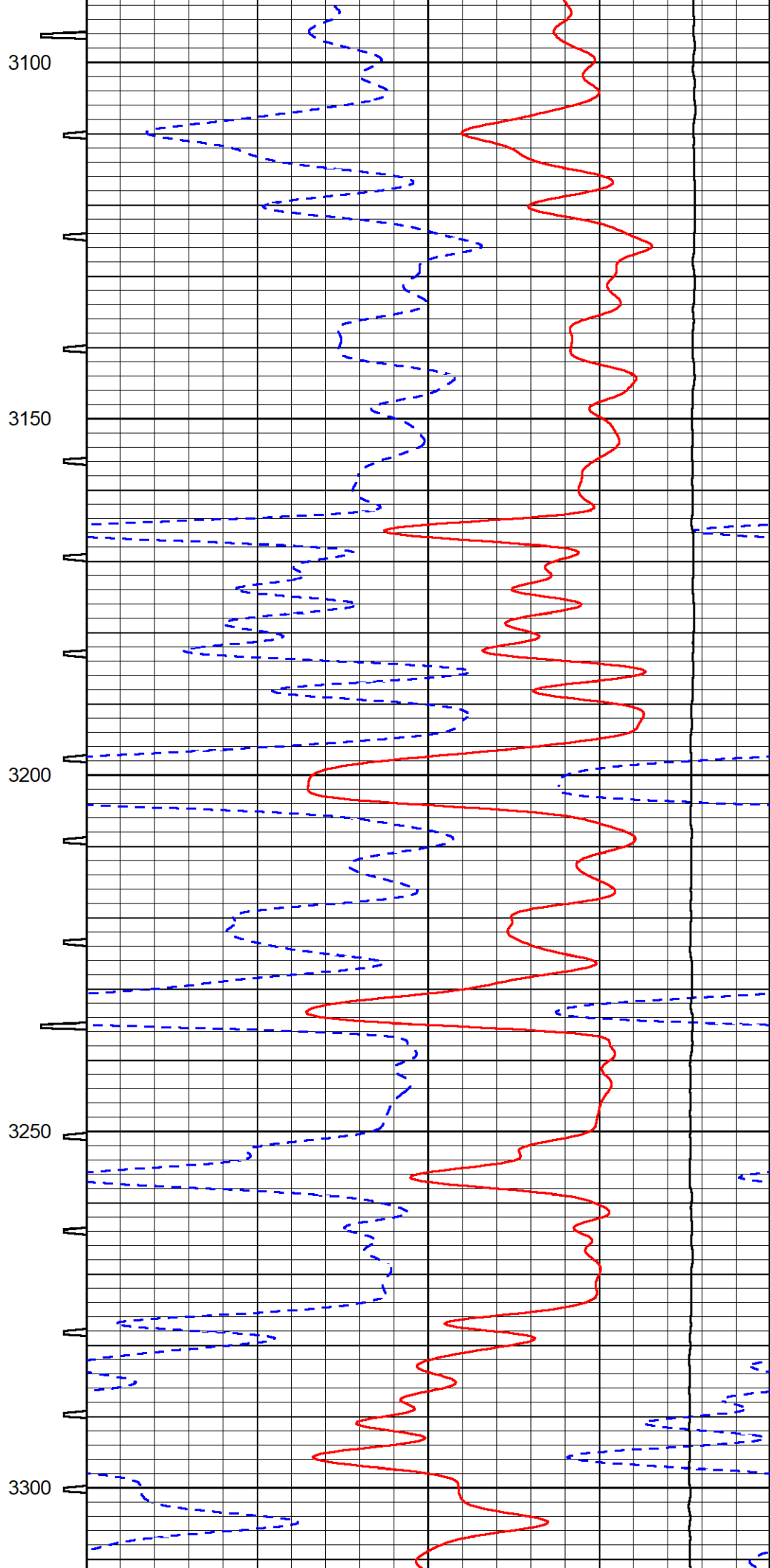
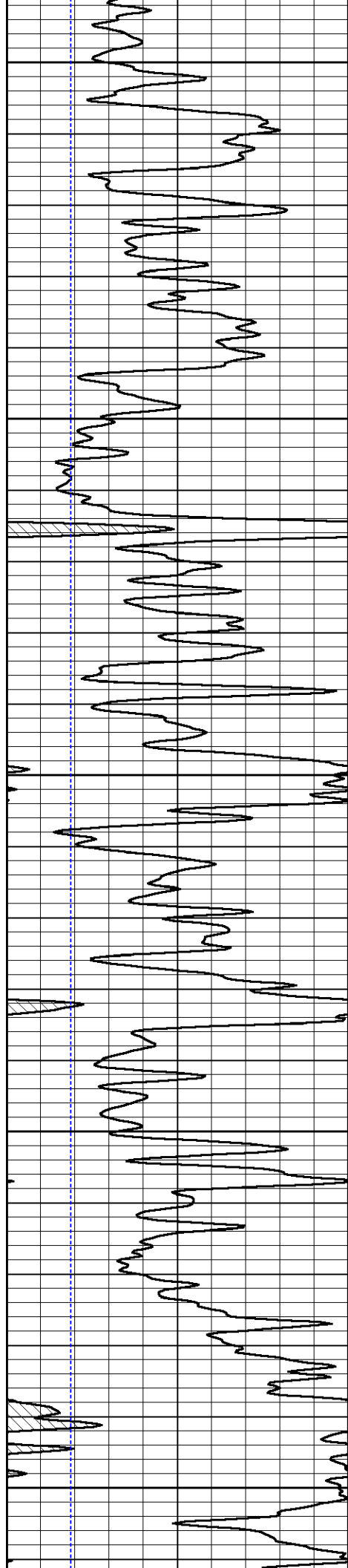


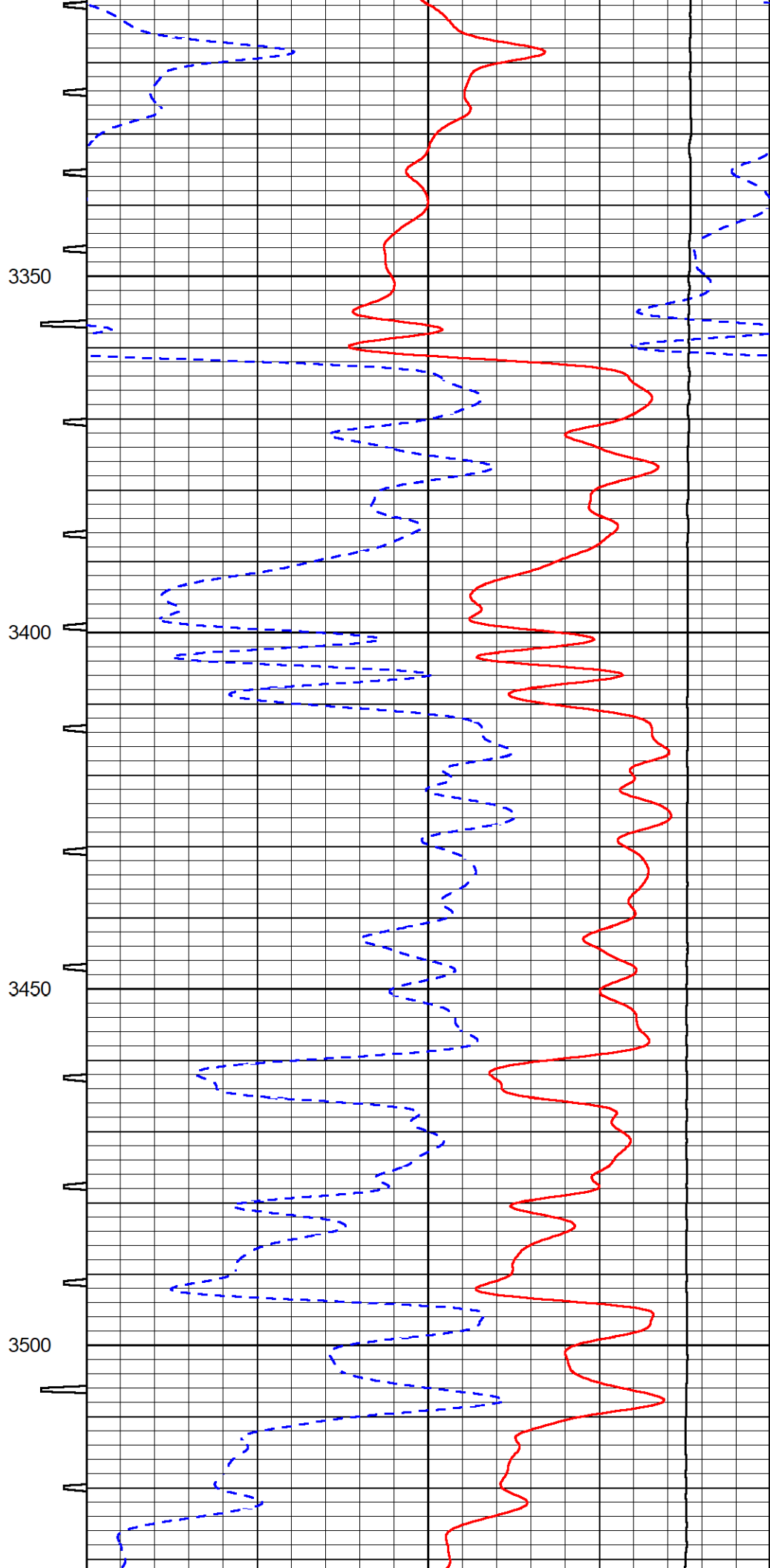
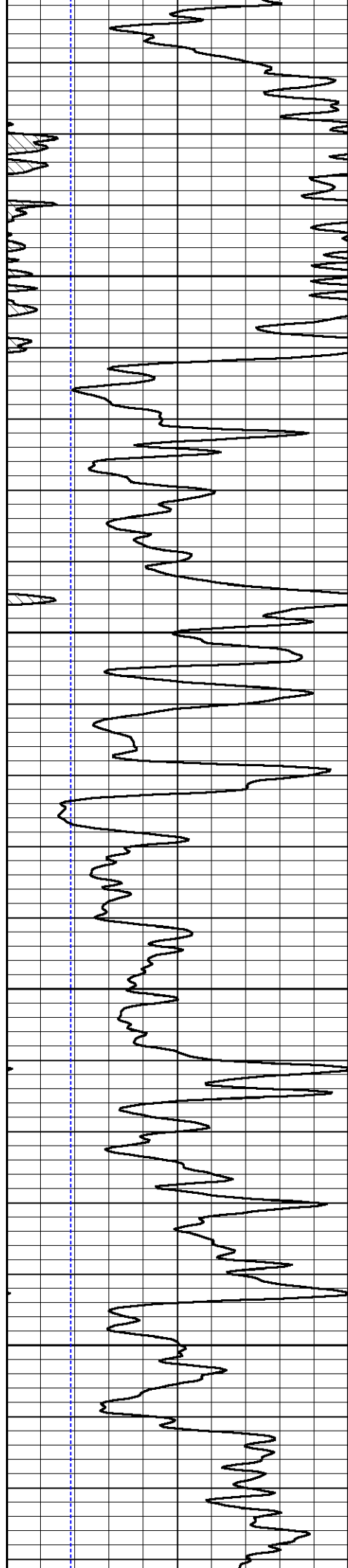


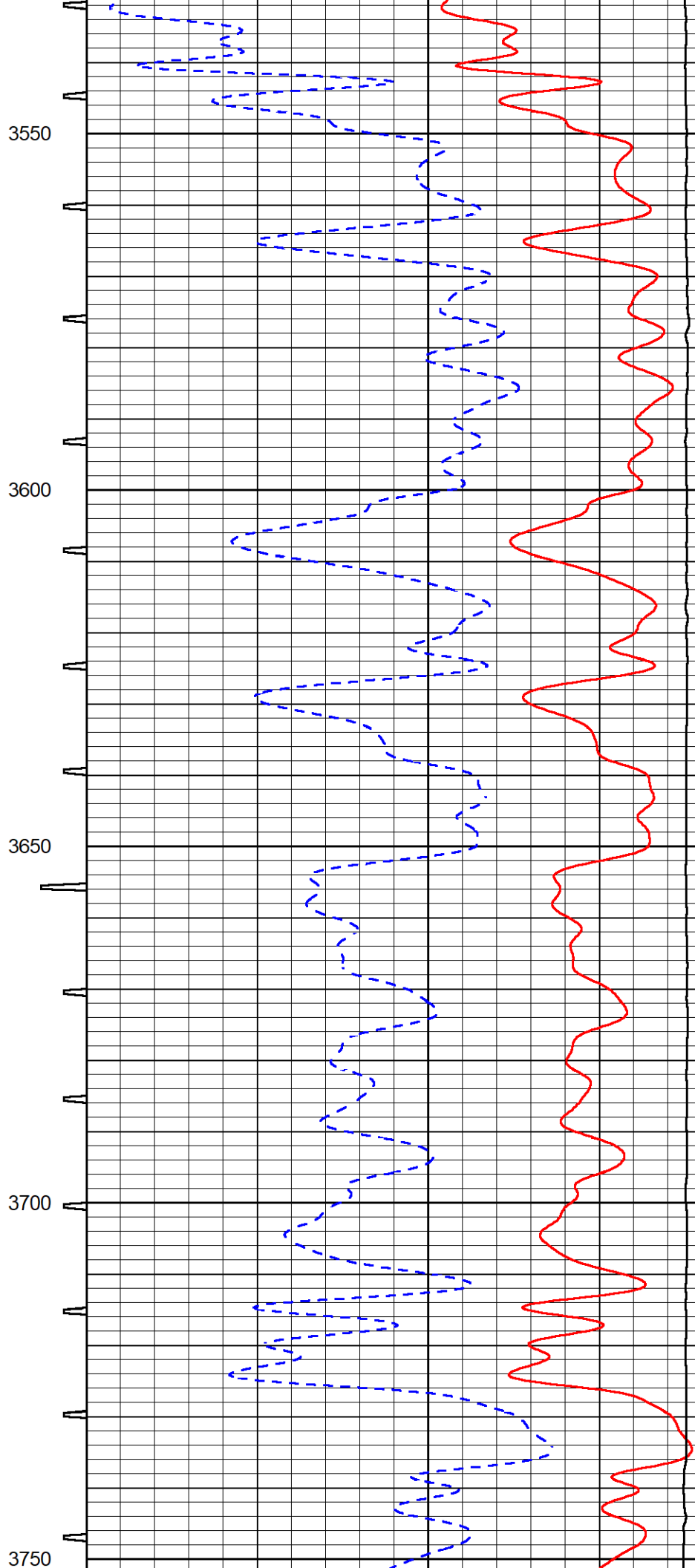
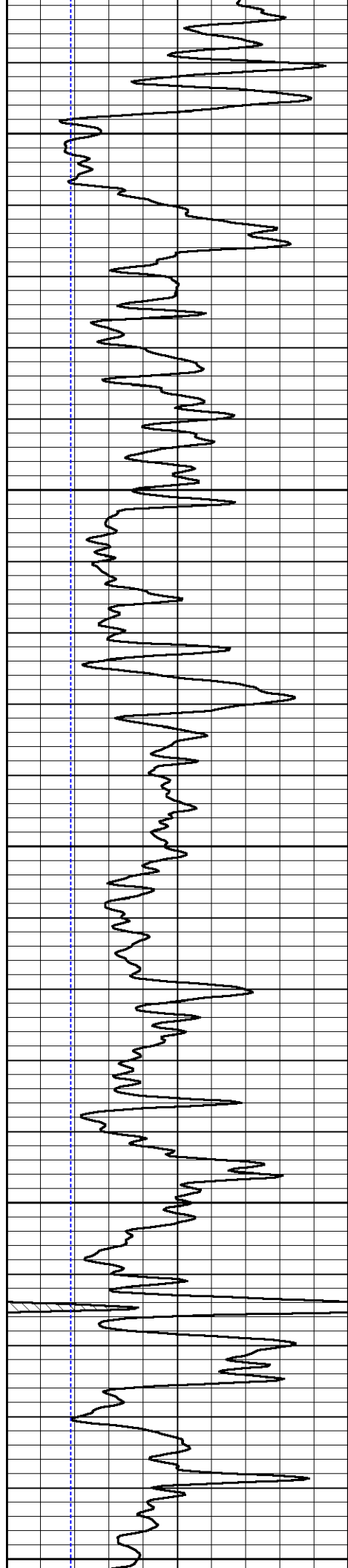


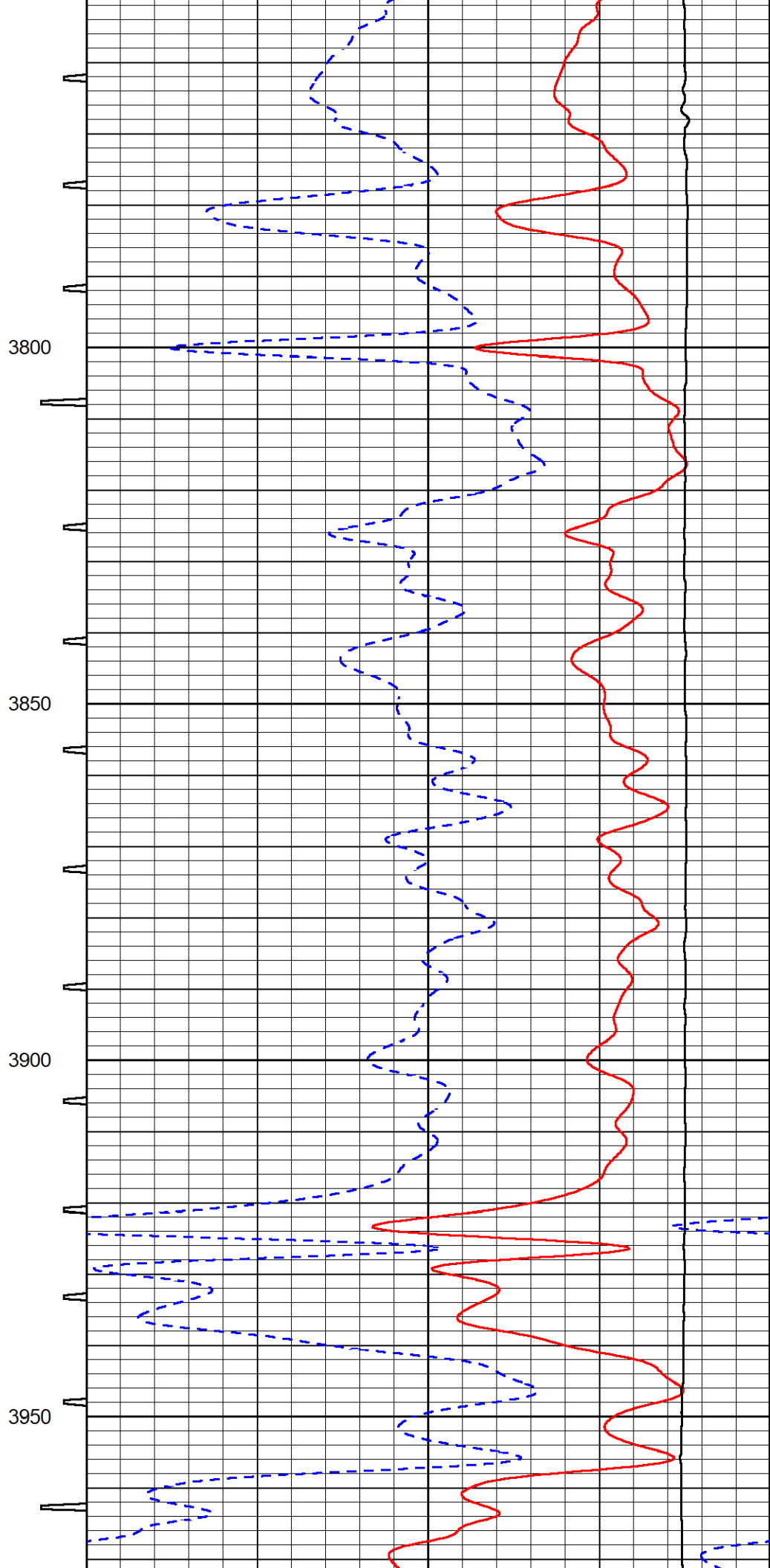
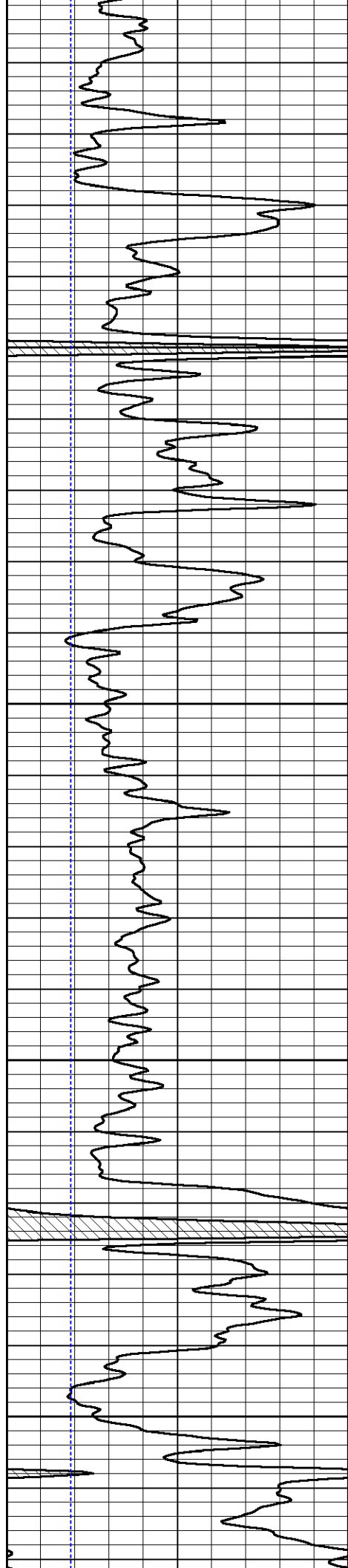


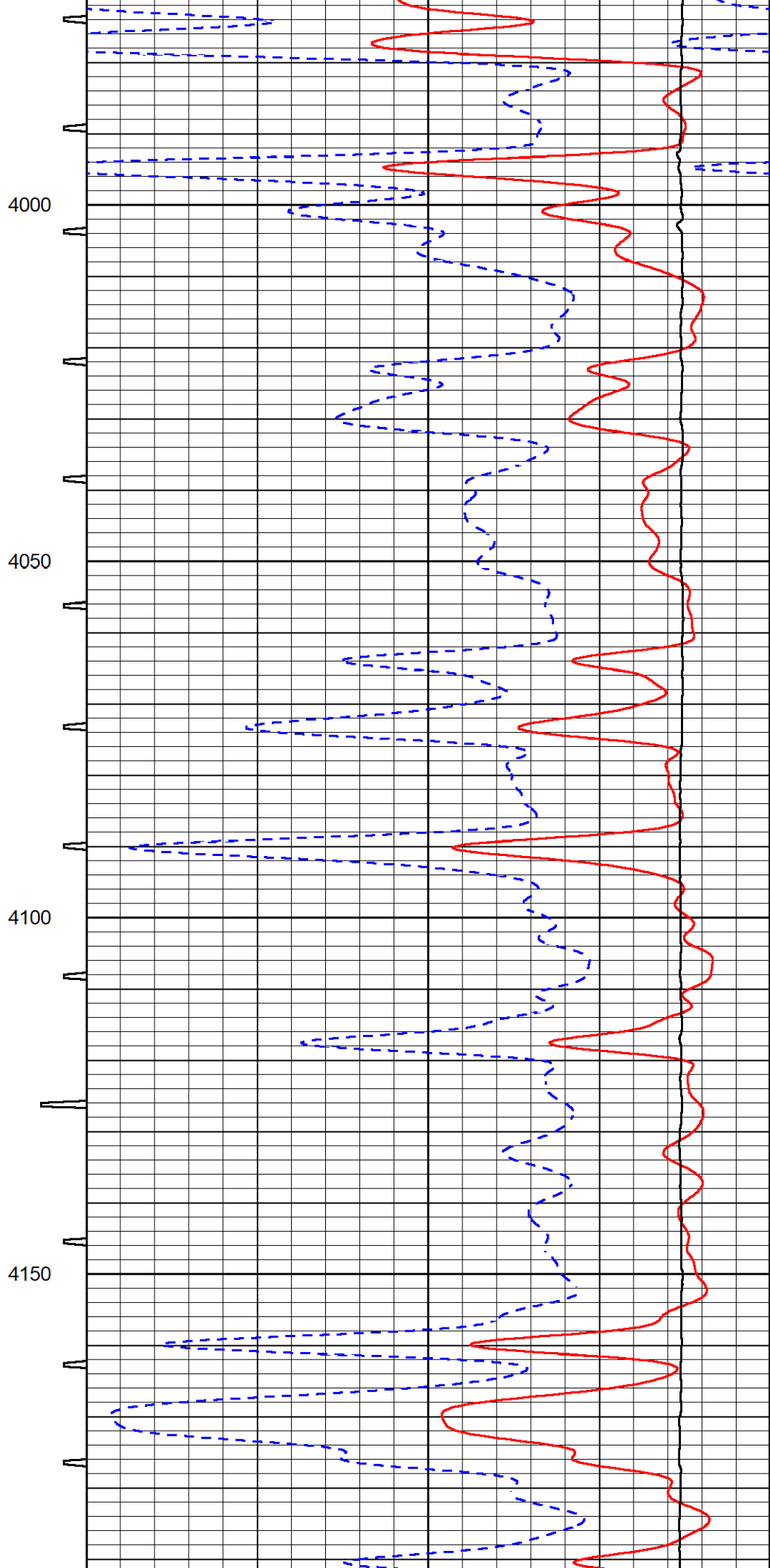
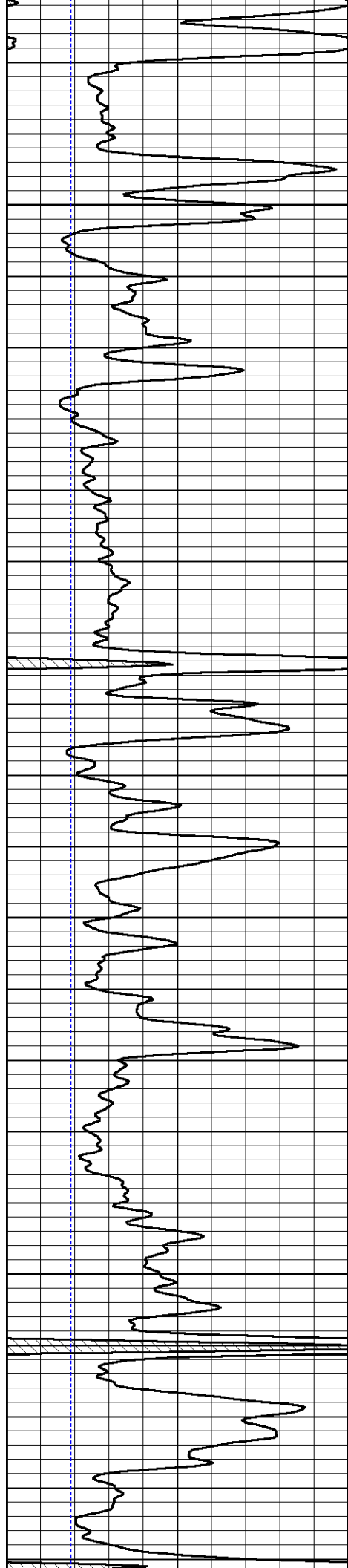


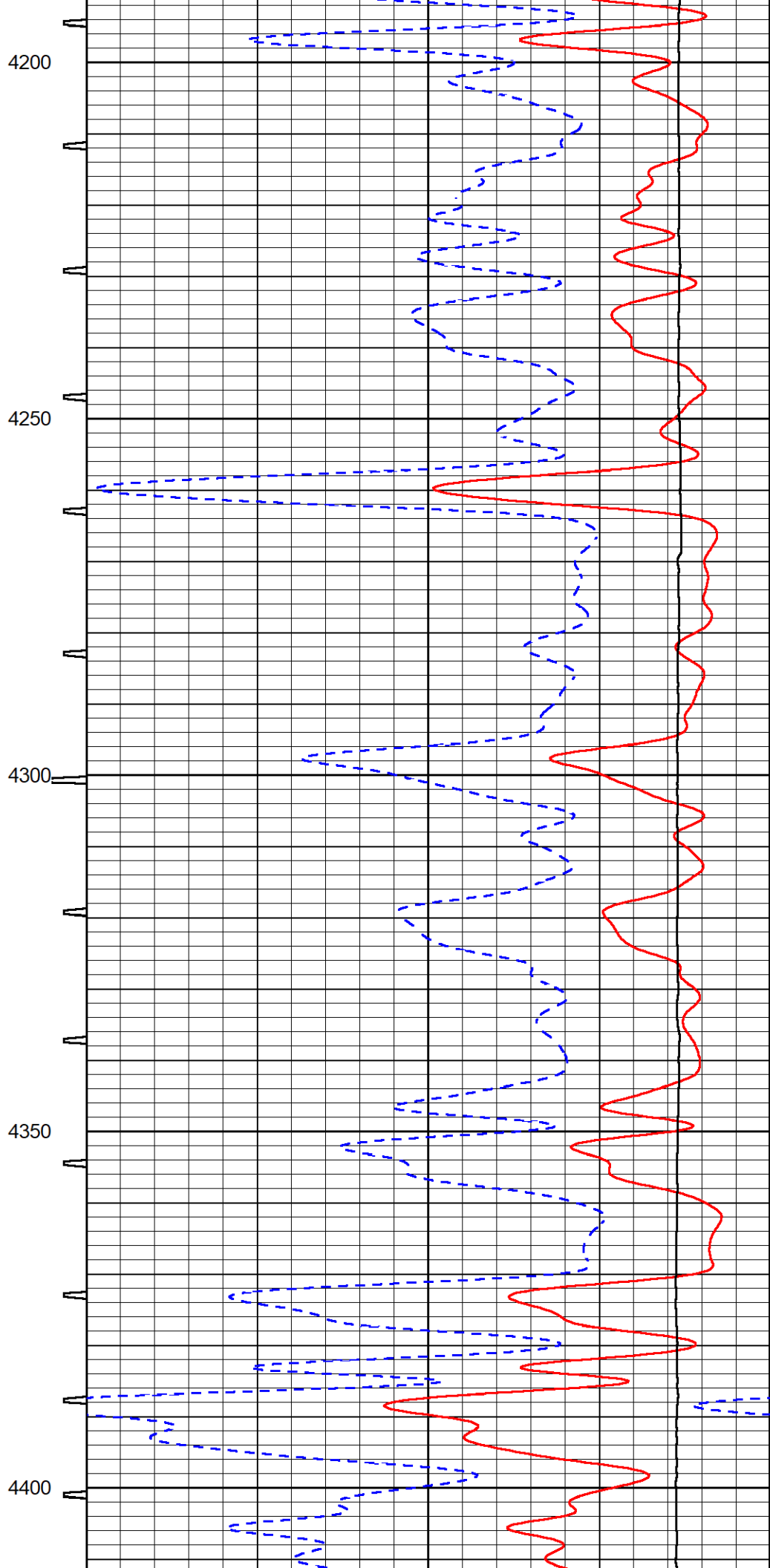
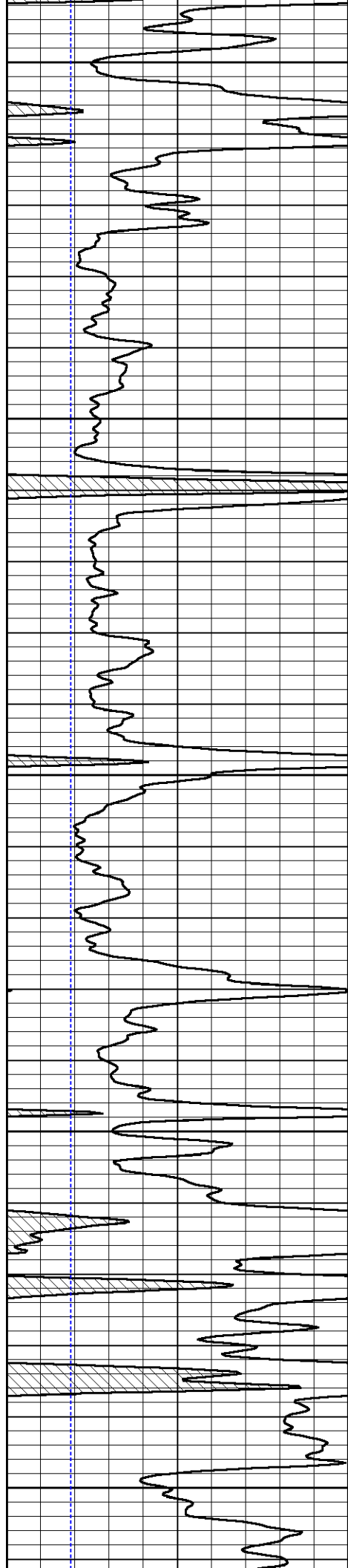


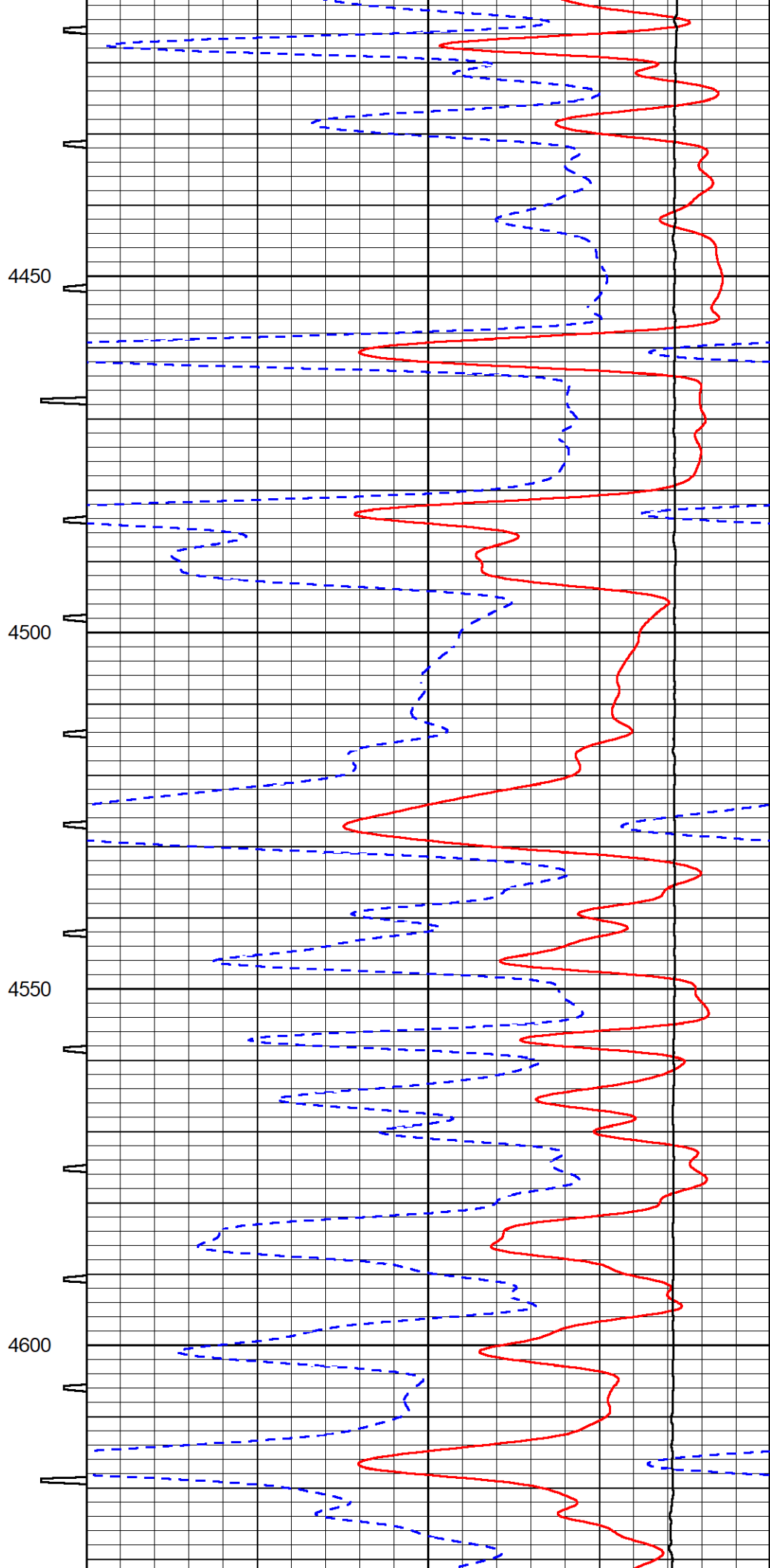
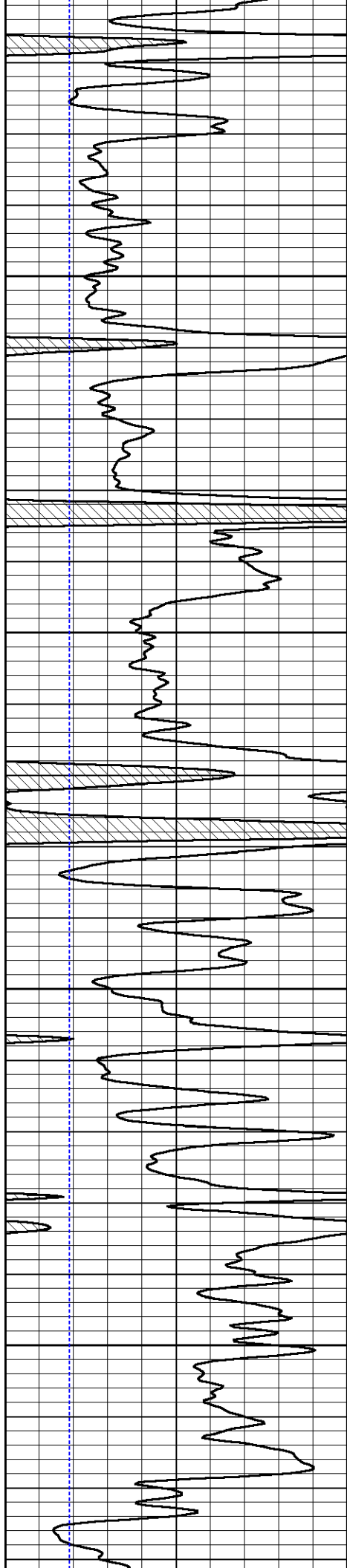


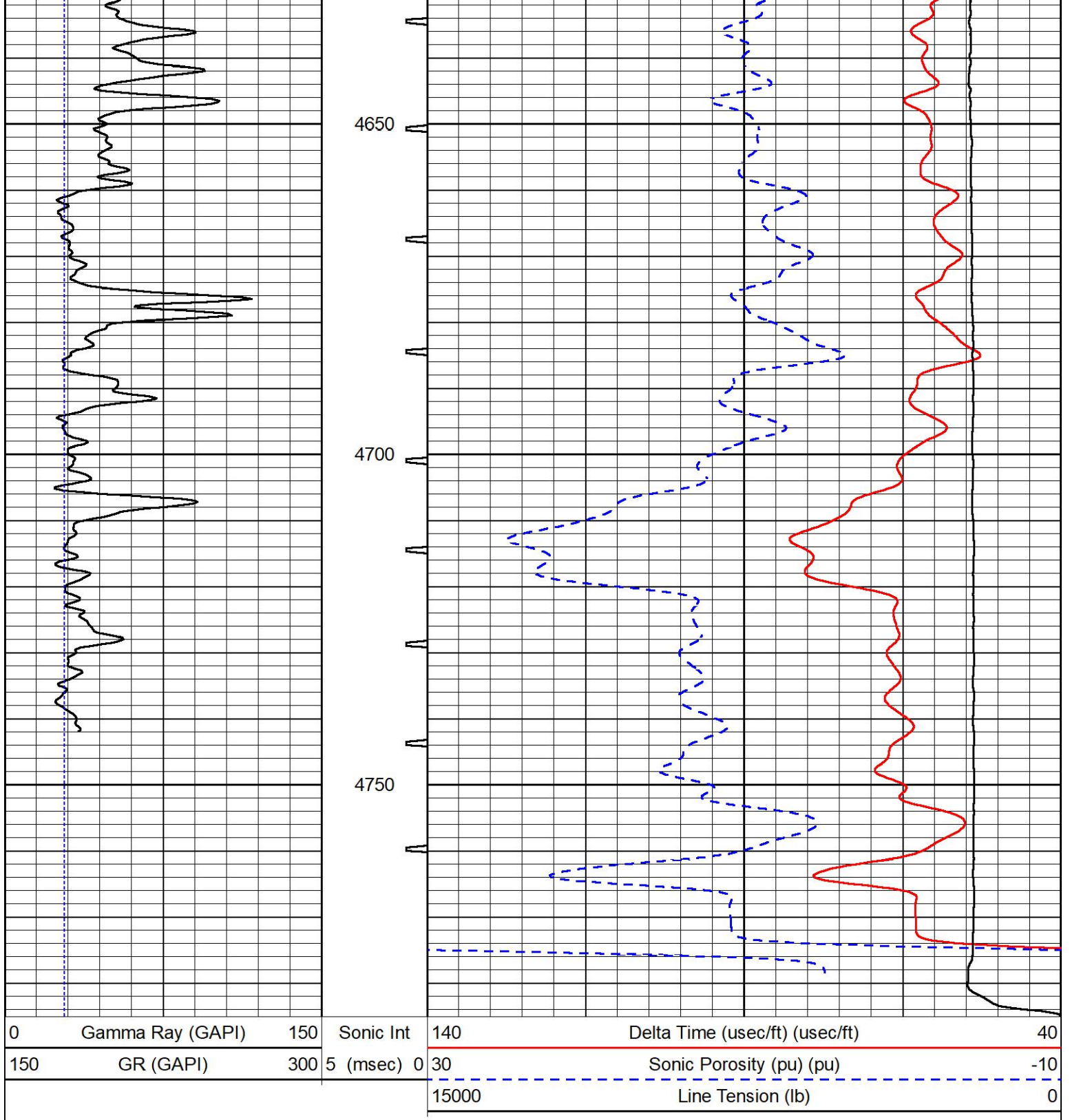








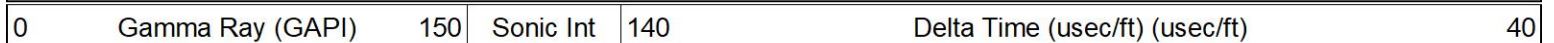


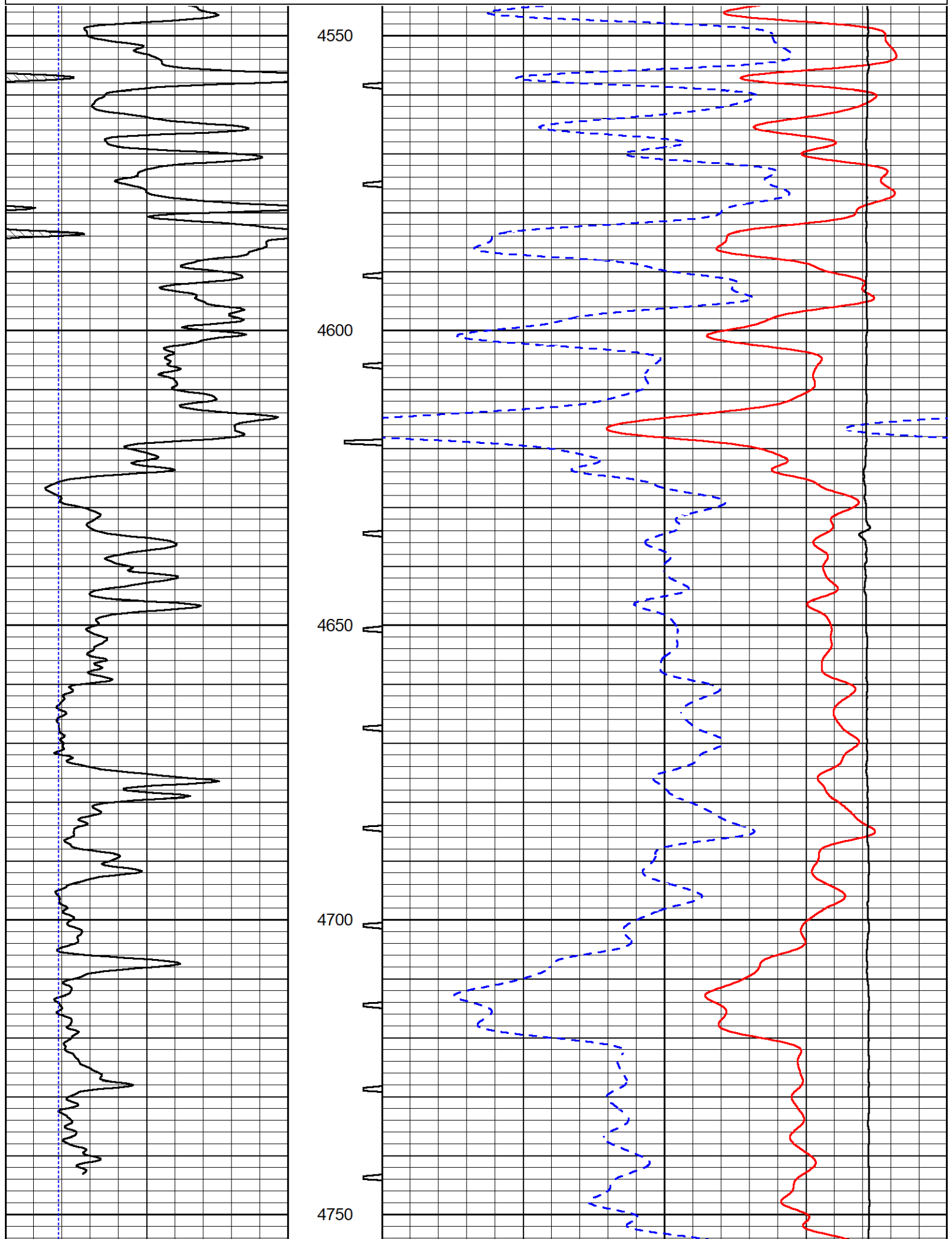


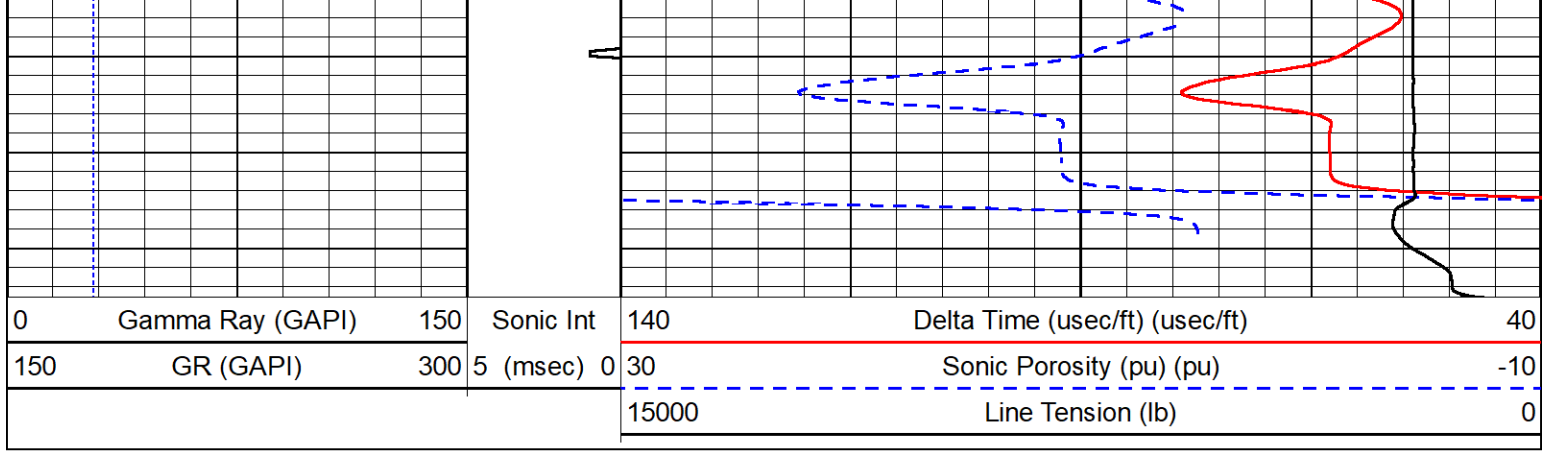
## REPEAT SECTION

### REPEAT PASS

Database File      am war\_schroeder 1-9.db  
 Dataset Pathname    stkml/pass2.1  
 Presentation Format    \_sonic  
 Dataset Creation      Mon Oct 02 17:58:50 2023  
 Charted by            Depth in Feet scaled 1:240







### Calibration Report

Database File am war\_schroeder 1-9.db  
 Dataset Pathname stkml/pass3.16  
 Dataset Creation Mon Oct 02 18:04:57 2023

### Dual Induction Calibration Report

Serial-Model: 505 HT-M&W  
 Surface Cal Performed: Fri Aug 11 21:22:17 2023

| Loop:  | Readings |          | References |         |        | Results |         |
|--------|----------|----------|------------|---------|--------|---------|---------|
|        | Air      | Loop     | Air        | Loop    |        | m       | b       |
| Deep   | 167.000  | 835.000  | 0.000      | 255.800 | mmho/m | 0.480   | -42.000 |
| Medium | 1348.000 | 1348.000 | 0.000      | 255.800 | mmho/m | 0.390   | -38.000 |

### Microlog Calibration Report

Serial-Model: 401-PSIML  
 Performed: Tue Aug 15 17:34:08 2023

|         | Readings |        | References |         |       | Results    |          |
|---------|----------|--------|------------|---------|-------|------------|----------|
|         | Zero     | Cal    | Zero       | Cal     |       | m          | b        |
| Normal  | 0.0000   | 1.0000 | 0.0000     | 1.0000  | Ohm-m | 24000.0000 | -1.5000  |
| Inverse | 0.0000   | 1.0000 | 0.0000     | 1.0000  | Ohm-m | 17000.0000 | -0.5000  |
| Caliper | 1.0052   | 1.0858 | 5.0000     | 16.5000 | in    | 50.0000    | -44.4500 |

### Compensated Density Calibration Report

Serial-Model: 303-03-M&W  
 Source #: 21170B  
 Master Calibration Performed: Wed Jun 21 06:11:17 2023

### Master Calibration

|           | Density |      | Far Detector | Near Detector |     |
|-----------|---------|------|--------------|---------------|-----|
| Magnesium | 1.755   | g/cc | 4162.25      | 5570.06       | cps |
| Aluminum  | 2.590   | g/cc | 913.18       | 3747.07       | cps |

Spine Angle = 75.35

Density/Spine Ratio = 0.533

|            | Size |    | Reading |
|------------|------|----|---------|
| Small Ring | 4.00 | in | 1.17    |

Small Ring  
Large Ring

14.00 in

1.07

Compensated Neutron Calibration Report

Serial Number: 210  
Tool Model: M&W

CALIBRATION

| Detector    | Readings    | Target      | Normalization |
|-------------|-------------|-------------|---------------|
| Short Space | 6240.00 cps | 1000.00 cps | 1.6025        |
| Long Space  | 460.00 cps  | 1000.00 cps | 1.9500        |

Gamma Ray Calibration Report

Serial Number: 105  
Tool Model: M&W  
Performed: Wed Aug 30 12:31:03 2023

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps  
Calibrator Reading: 637.0 cps

Sensitivity: 0.6500 GAPI/cps



Company American Warrior, Inc.  
Well Schroeder #1-9  
Field Wildcat  
County Hodgeman  
State Kansas