



# BOREHOLE COMPENSATED SONIC LOG

MIDWEST WIRELINE

Company Landmark Resources, Inc.  
Well Godfrey A 1-32  
Field Unnamed  
County Sheridan  
State Kansas

Company Landmark Resources, Inc.  
Well Godfrey A 1-32  
Field Unnamed  
County Sheridan State Kansas

Location: API #: 15-179-21485-00-00

1207 FNL & 573 FWL

SEC 32 TWP 6S RGE 28W

Permanent Datum Ground Level Elevation 2784  
Log Measured From Kelly Bushing  
Drilling Measured From Kelly Bushing

Other Services  
DIL/MEL  
CNL/CDL  
Elevation  
K.B. 2789  
D.F.  
G.L. 2784

Date 4/18/2022

|                        |               |
|------------------------|---------------|
| Run Number             | Two           |
| Type Log               | BHCS          |
| Depth Driller          | 4509          |
| Depth Logger           | 4509          |
| Bottom Logged Interval | 4499          |
| Top Logged Interval    | 300           |
| Type Fluid In Hole     | Chemical      |
| Salinity, PPM CL       | 2400          |
| Density                | 9.3           |
| Level                  | Full          |
| Max. Rec. Temp. F      | 124           |
| Operating Rig Time     | 4 Hours       |
| Equipment -- Location  | P-108 HAYS    |
| Recorded By            | J. Henrickson |
| Witnessed By           | Terry McLeod  |

| Borehole Record |       |      |     | Casing Record |      |      |     |
|-----------------|-------|------|-----|---------------|------|------|-----|
| Run No.         | Bit   | From | To  | Size          | Wgt. | From | To  |
| One             | 12.25 | 0    | 312 | 8.625         | 24   | 0    | 312 |
| Two             | 7.875 | 312  | TD  |               |      |      |     |
|                 |       |      |     |               |      |      |     |
|                 |       |      |     |               |      |      |     |
|                 |       |      |     |               |      |      |     |
|                 |       |      |     |               |      |      |     |
|                 |       |      |     |               |      |      |     |
|                 |       |      |     |               |      |      |     |
|                 |       |      |     |               |      |      |     |

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not 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.

## Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Hoxie Kansas  
North to 110, 2 West, 1.2 South,  
East Into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC  
785-625-3858

## Your Midwest Wireline Crew

Engineer: J. Henrickson  
Operator:  
Operator:  
Operator:

## This Log Record Was Witnessed By

Primary Witness: Terry McLeod  
Secondary Witness:  
Secondary Witness:  
Secondary Witness:

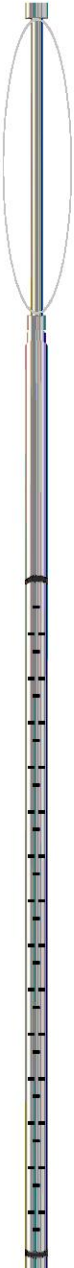
Top - Bottom

|           |             |             |             |           |            |       |              |
|-----------|-------------|-------------|-------------|-----------|------------|-------|--------------|
| A         | BOREID      | BOTTEMP     | CASEOD      | CASETHCK  | FLUIDDEN   | M     | MATRXDEN     |
| 1         | in<br>7.875 | degF<br>124 | in<br>5.5   | in<br>0   | g/cc<br>1  | 2     | g/cc<br>2.71 |
| NPORSEL   | PERFS       | SNDERR      | SNDERRM     | SPSHIFT   | SRFTEMP    | SZCOR | TDEPTH       |
| Limestone | 0           | mmho/m<br>0 | mmho/m<br>0 | mV<br>460 | degF<br>50 | Off   | ft<br>4509   |

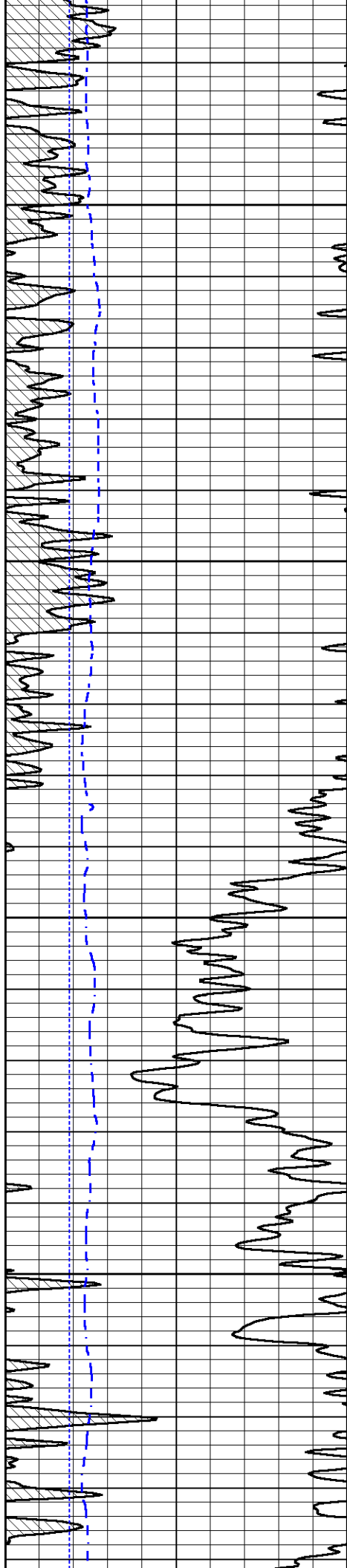
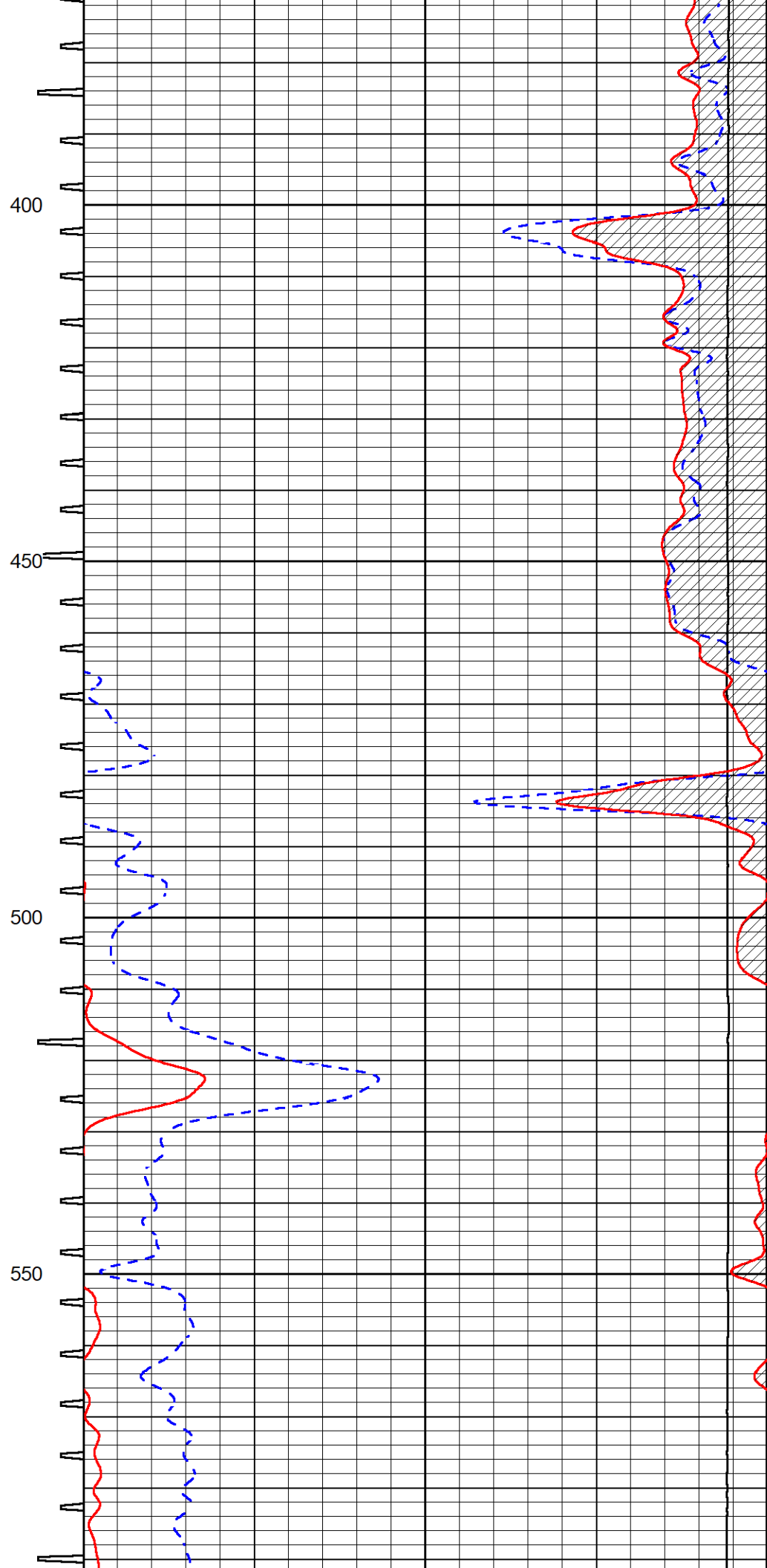
Variable Description

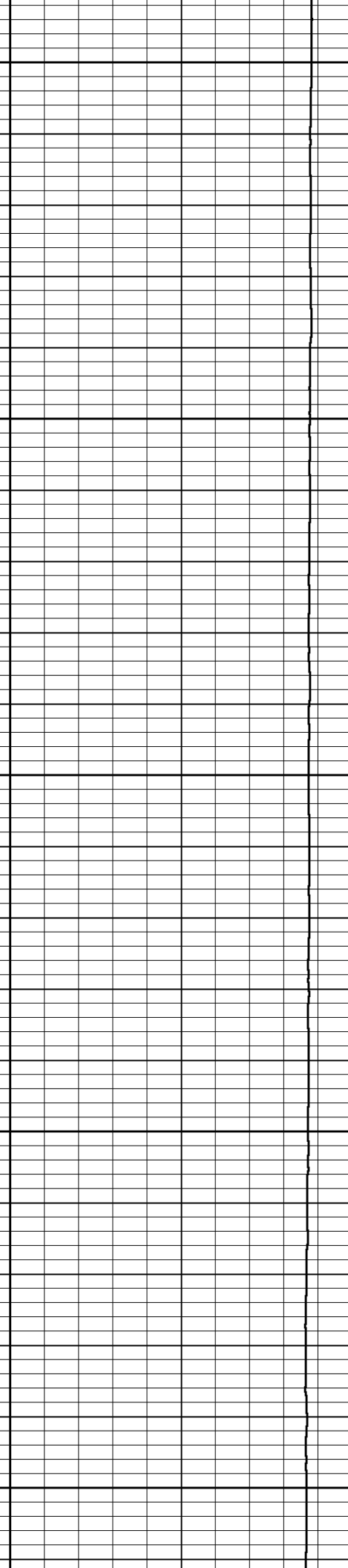
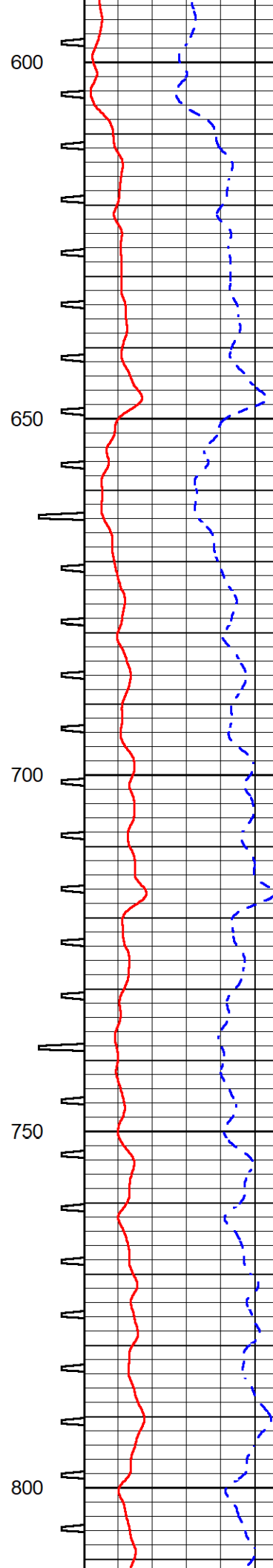
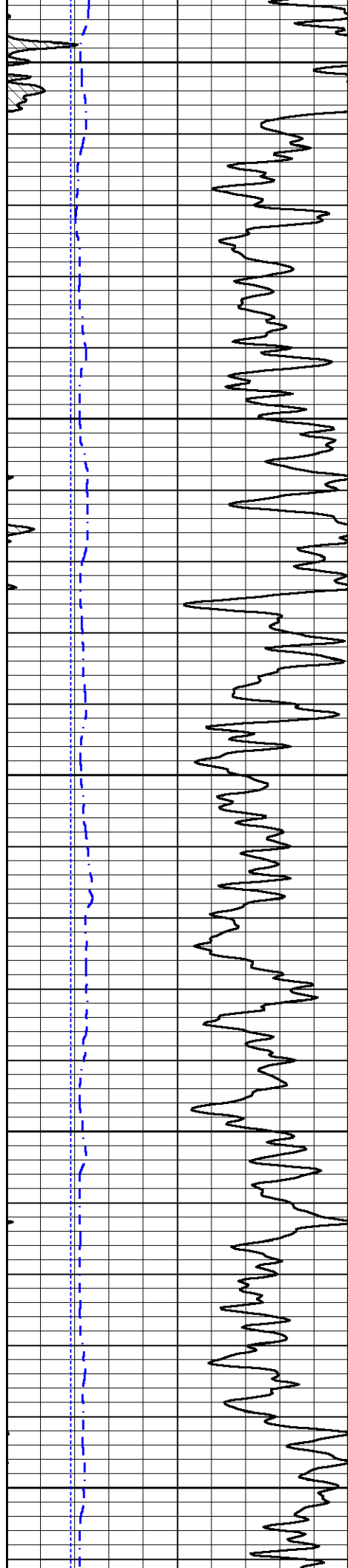
A : Cement Factor (a)  
BOREID : Borehole I.D.  
BOTTEMP : Bottom Hole Temperature  
CASEOD : Casing O.D.  
CASETHCK : Casing Thickness  
FLUIDDEN : Fluid Density  
M : Cement Exp (m)  
MATRXDEN : Matrix Density

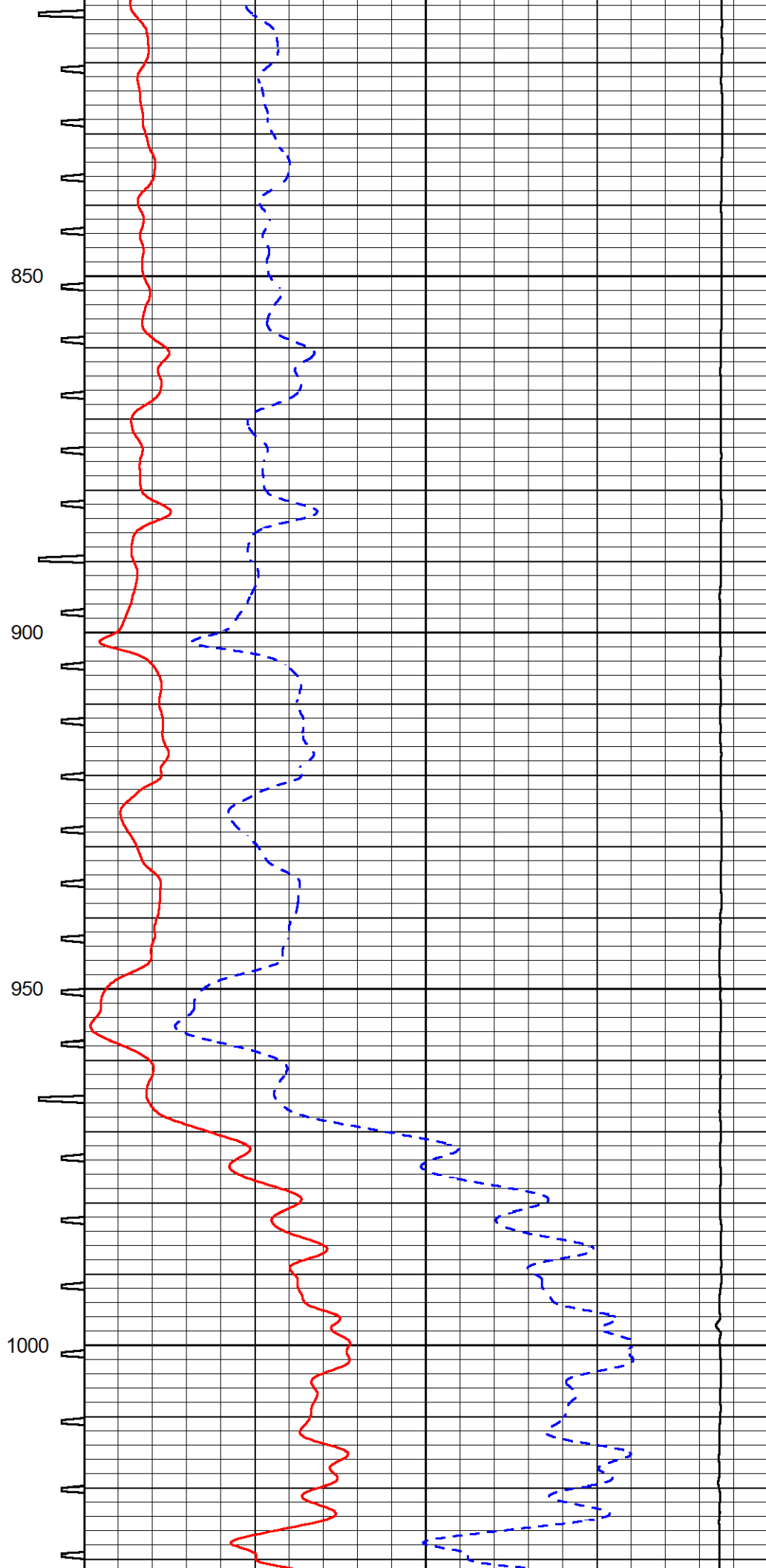
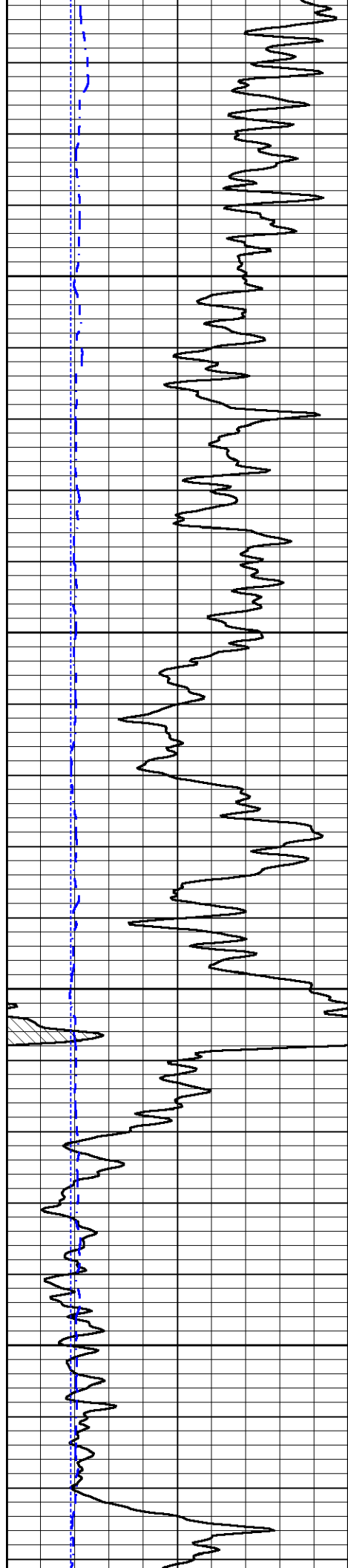
NPORSEL : Neutron Porosity Curve Select  
PERFS : Perforation Flag  
SNDERR : Deep Sonde Error Correction  
SNDERRM : Medium Sonde Error Correction  
SPSHIFT : S.P. Baseline Offset  
SRFTEMP : Surface Temperature  
SZCOR : CN Size Cor. ?  
TDEPTH : Total Depth

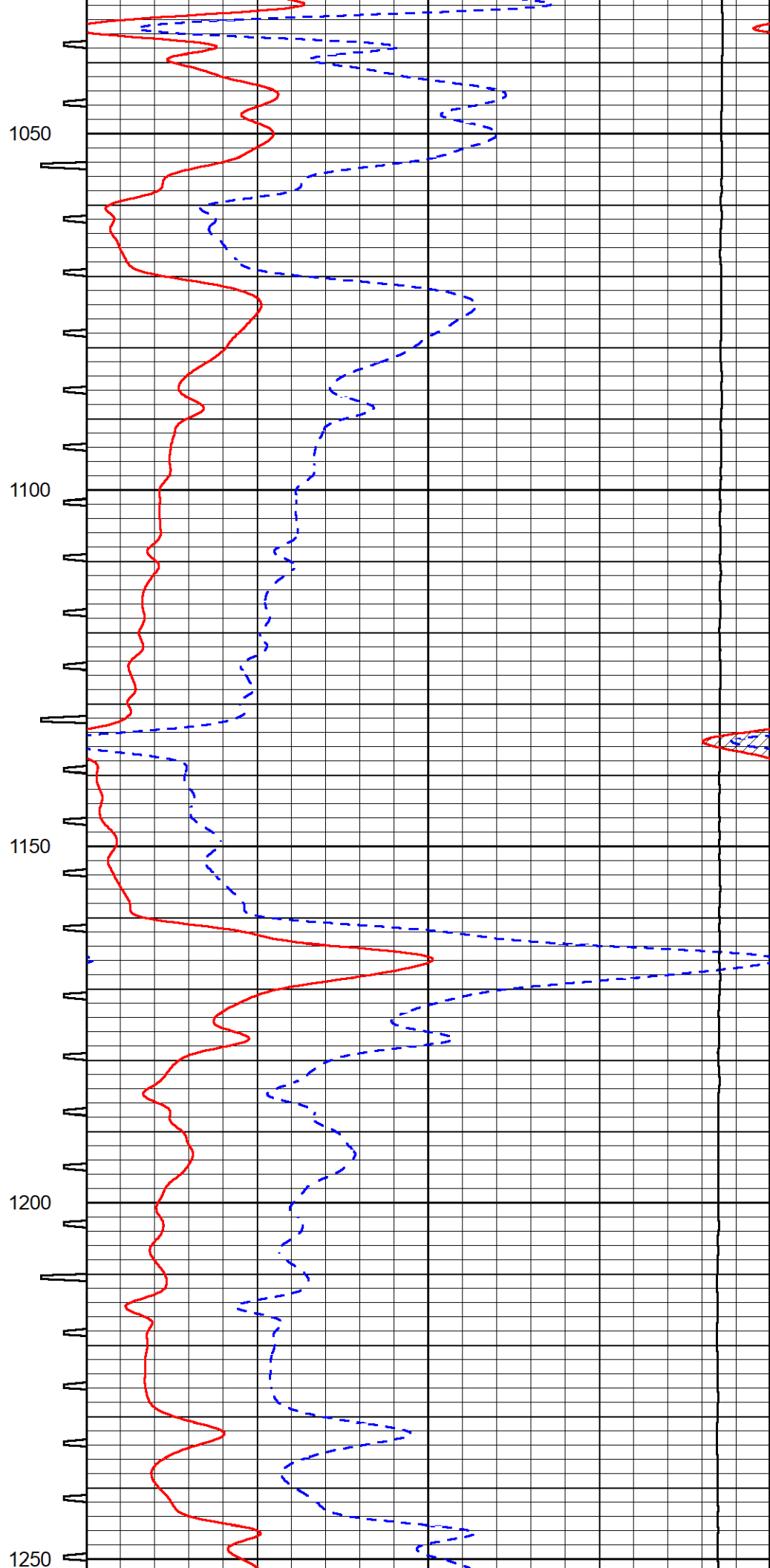
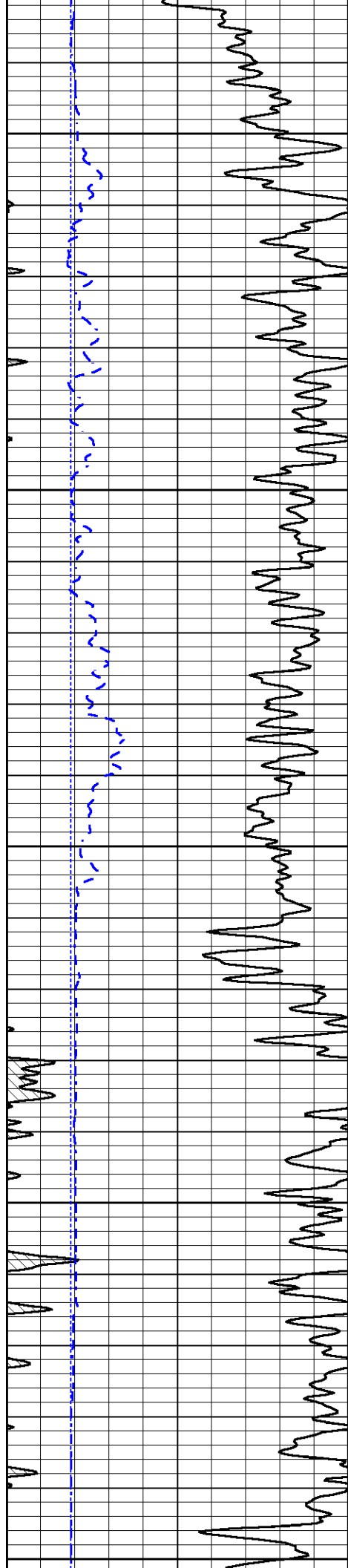
| Sensor       | Offset (ft)    | Schematic                                                                           | Description     | Length (ft) | O.D. (in) | Weight (lb) |
|--------------|----------------|-------------------------------------------------------------------------------------|-----------------|-------------|-----------|-------------|
|              |                |   | CENT-PENGO      | 4.25        | 3.00      | 70.00       |
| WVF4<br>WVF1 | 12.50<br>12.50 |  | SLT-PENGO (602) | 15.92       | 3.50      | 300.00      |
| WVF3<br>WVF2 | 10.50<br>10.50 |  |                 |             |           |             |

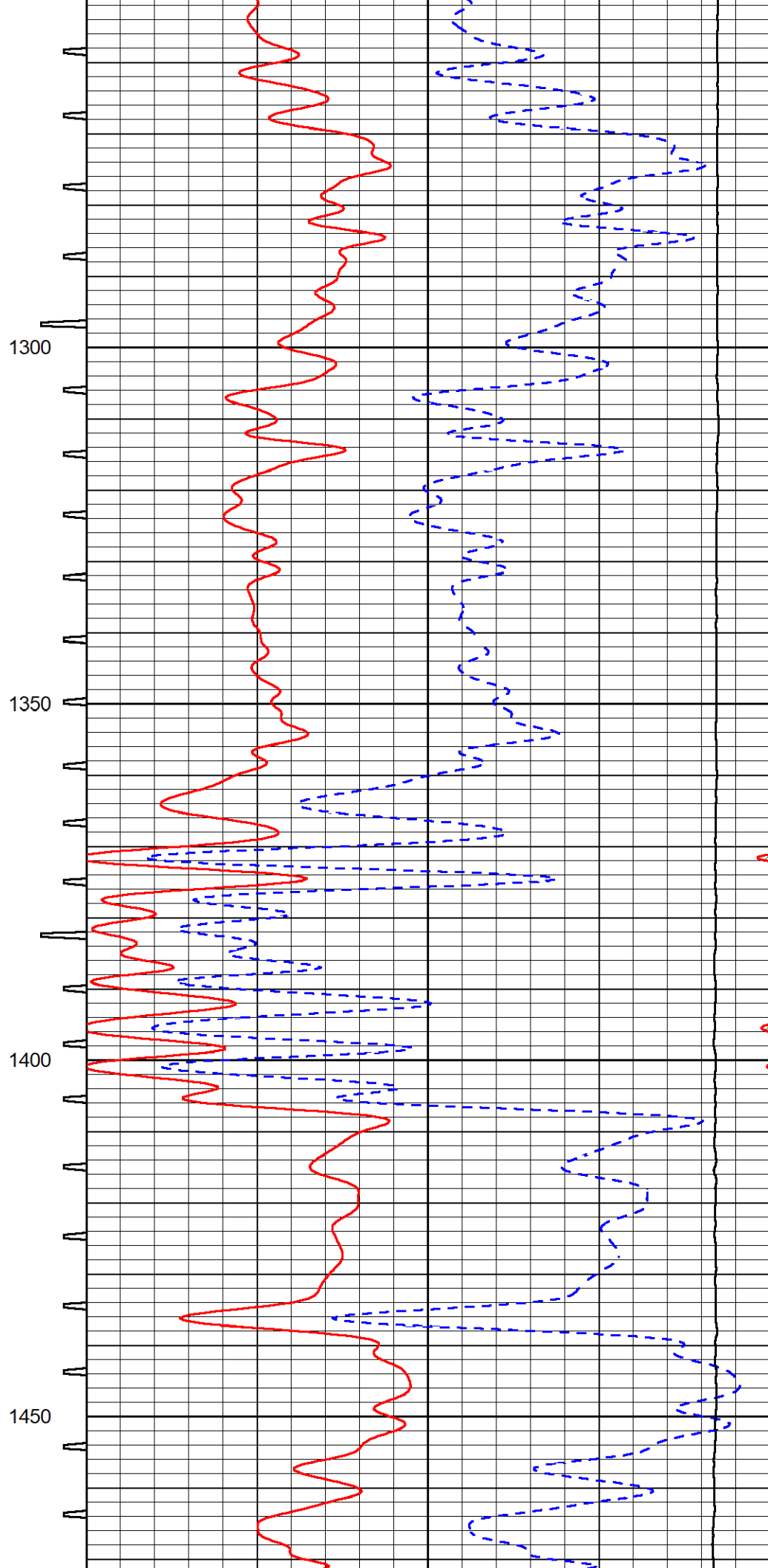
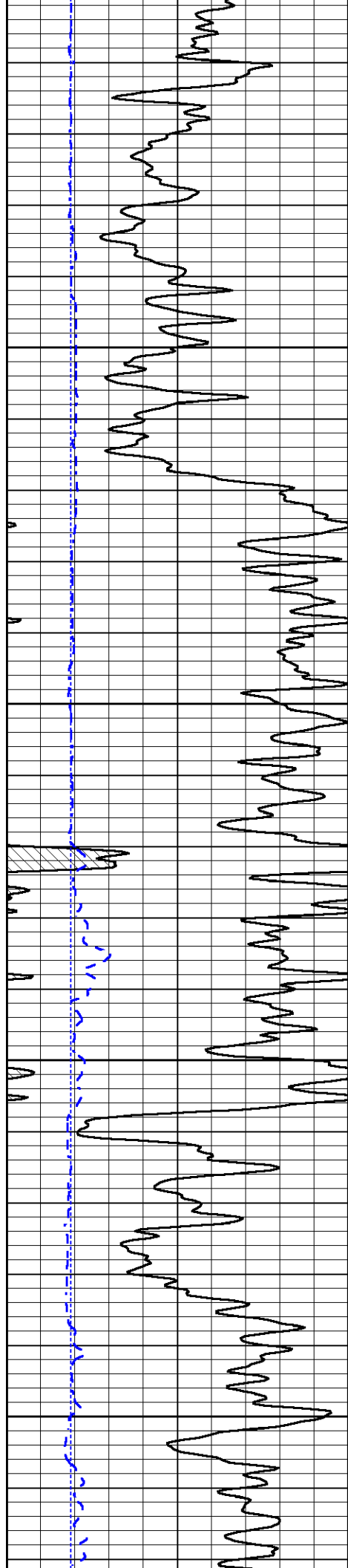


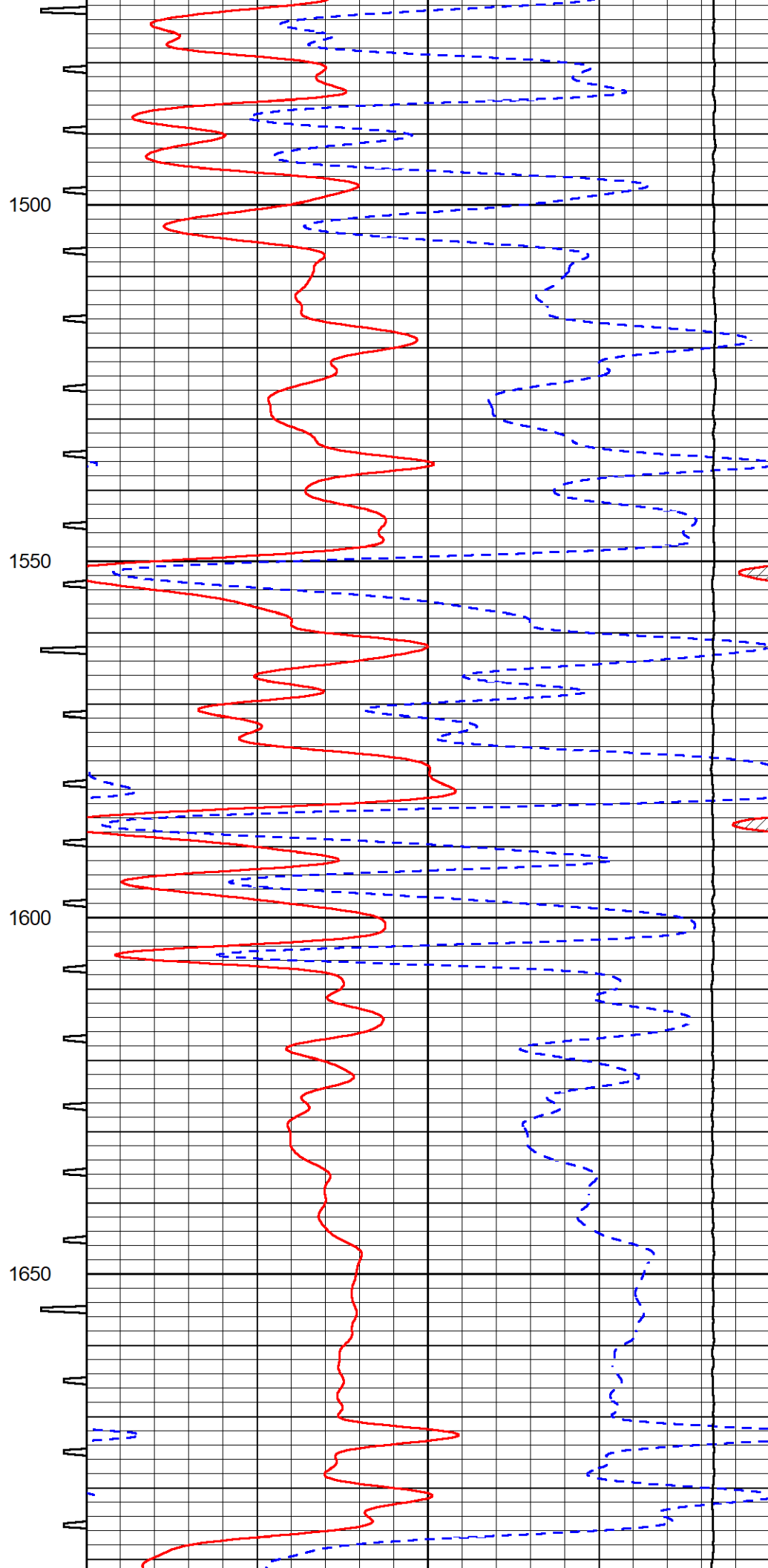
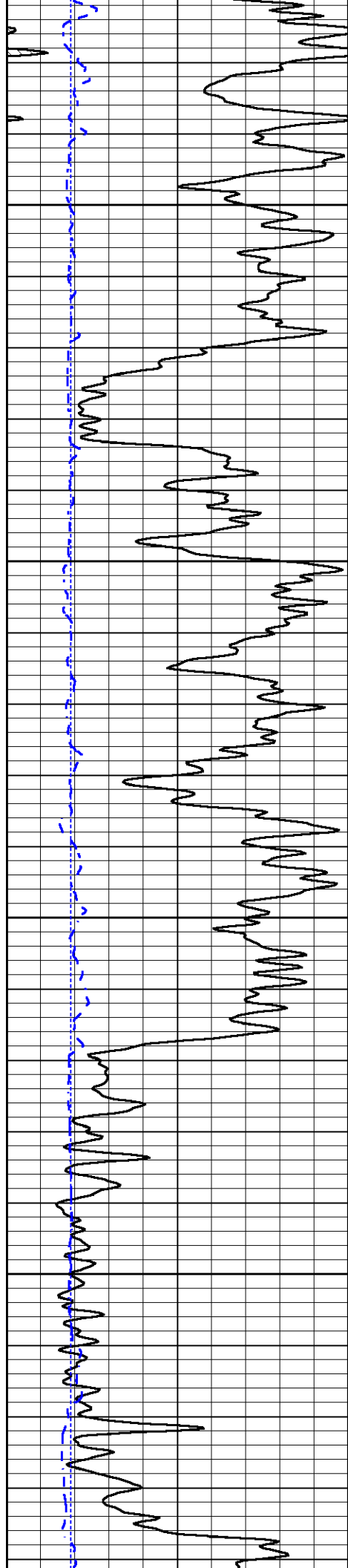


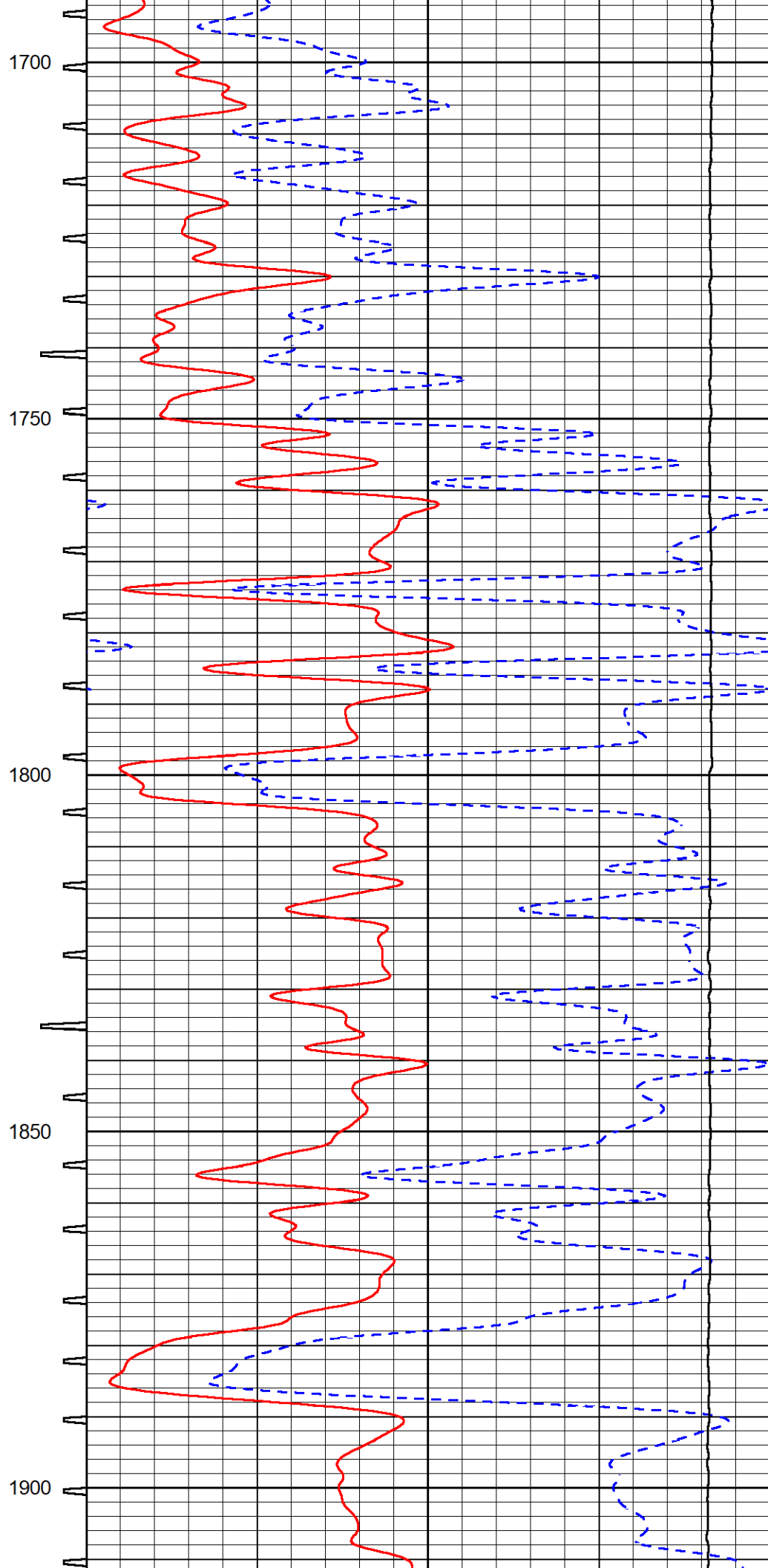
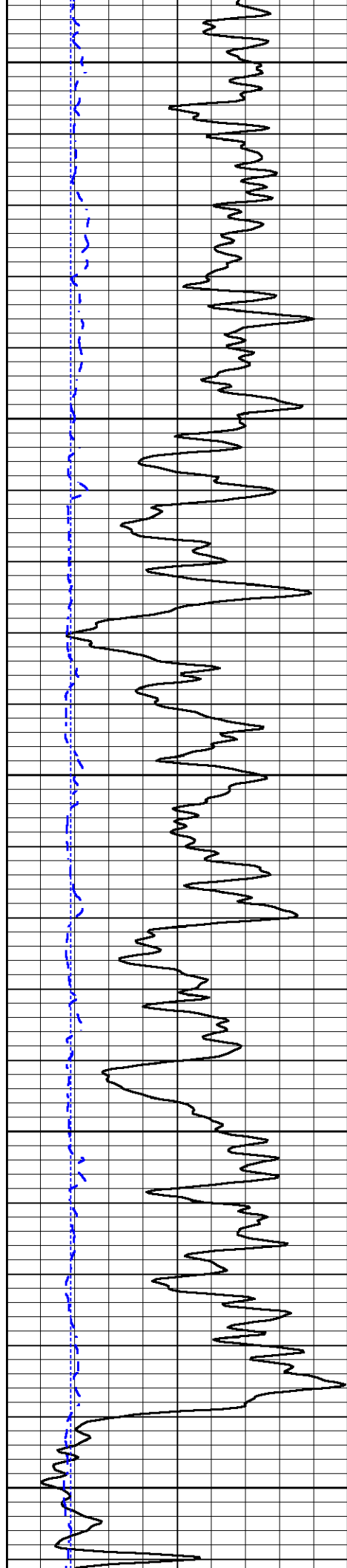


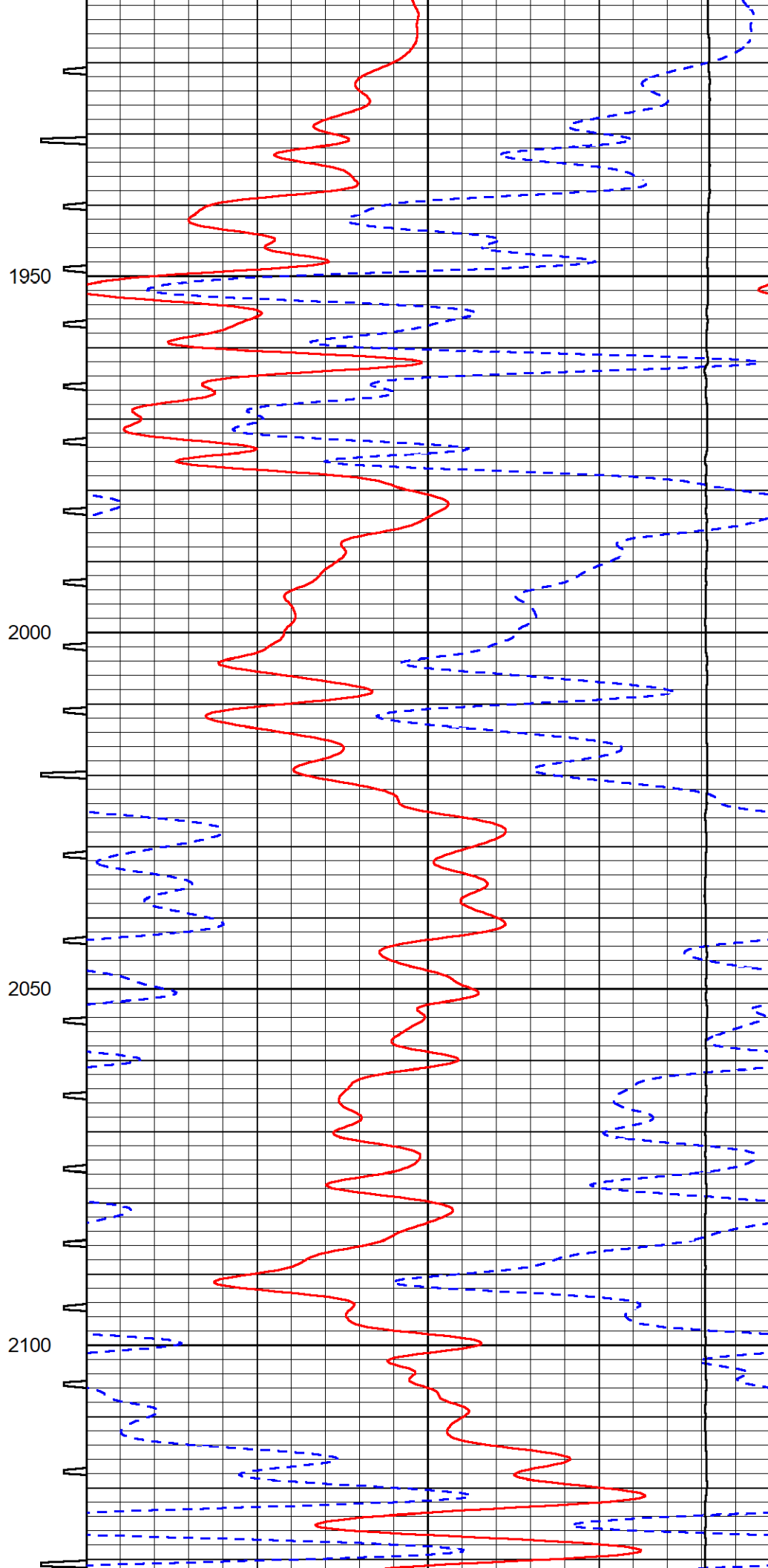
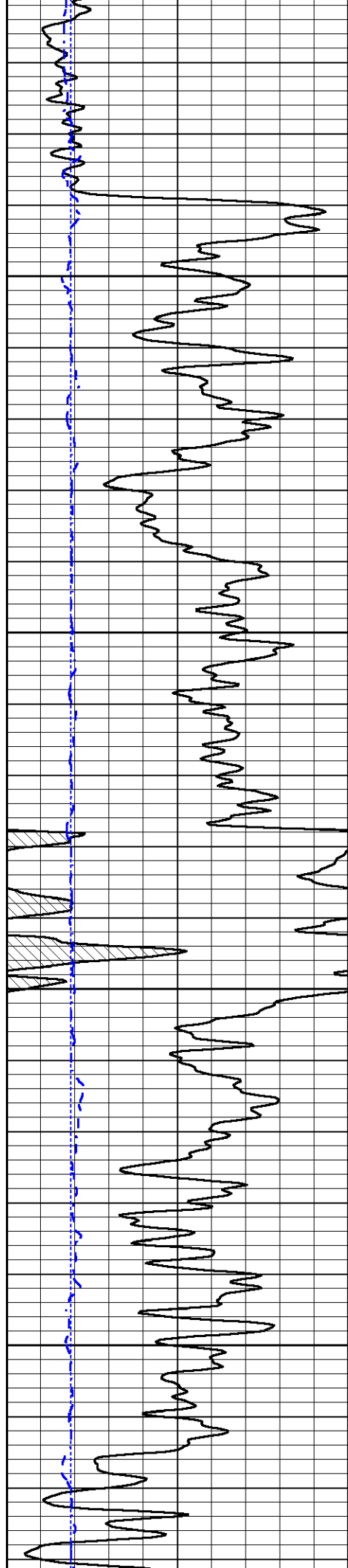


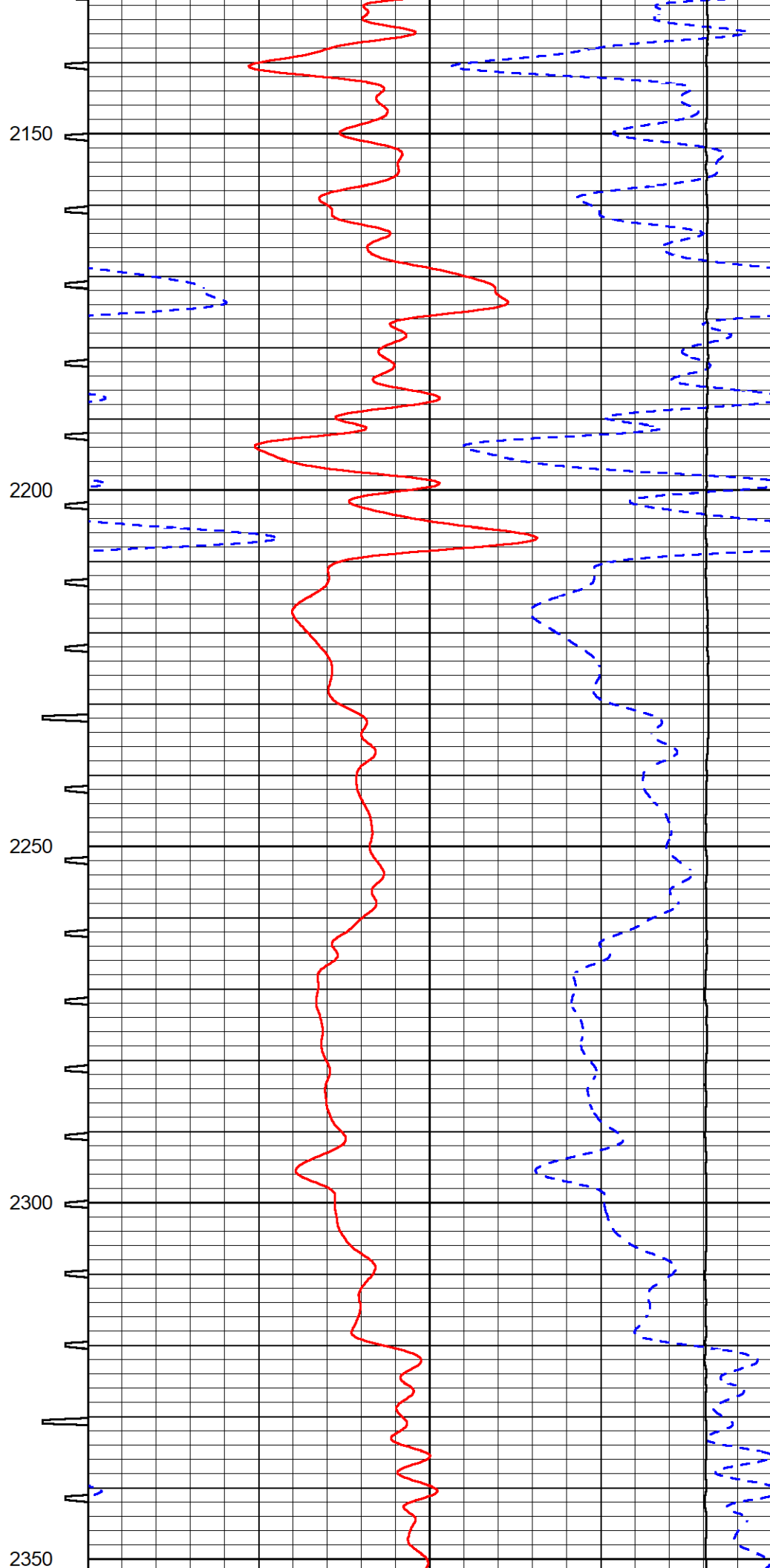
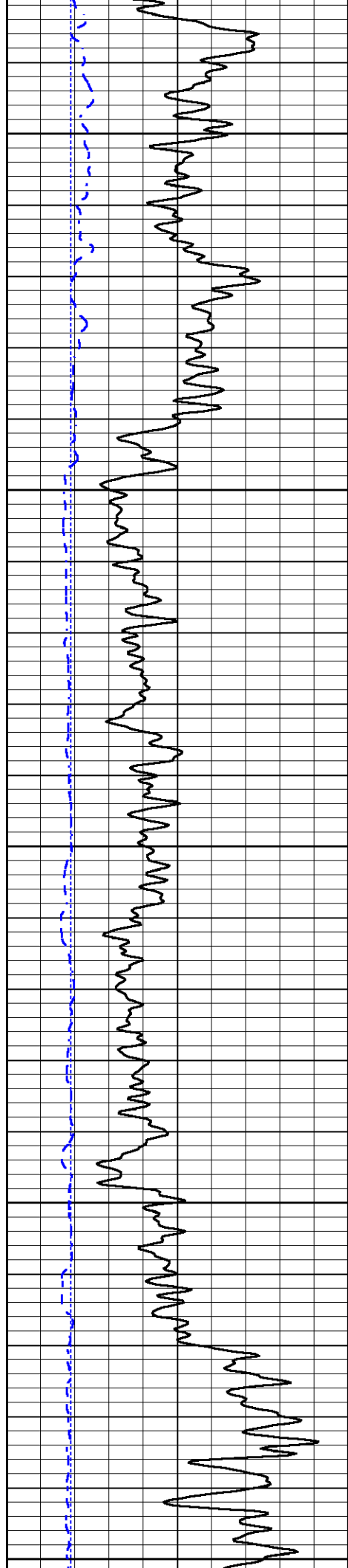


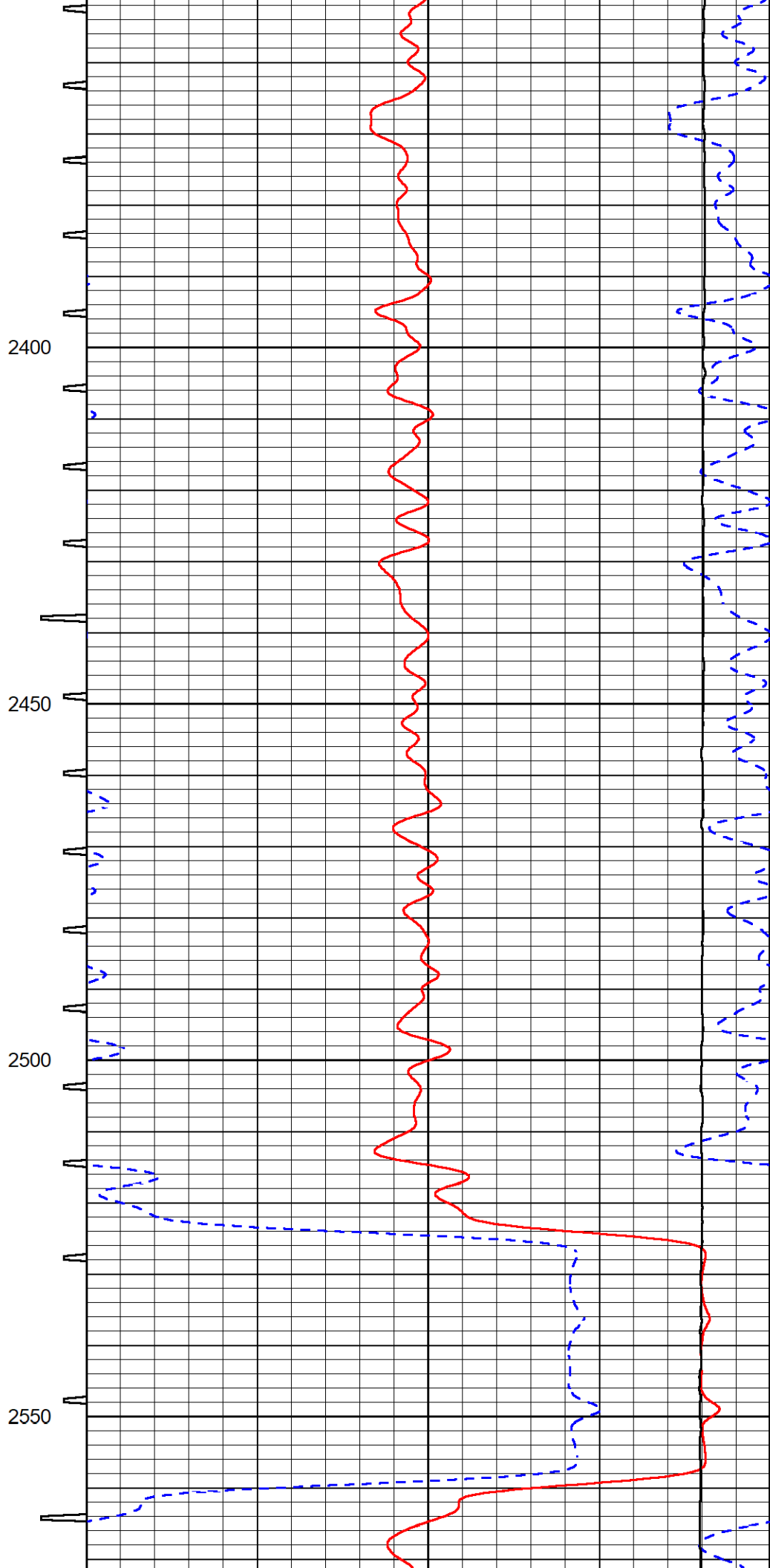
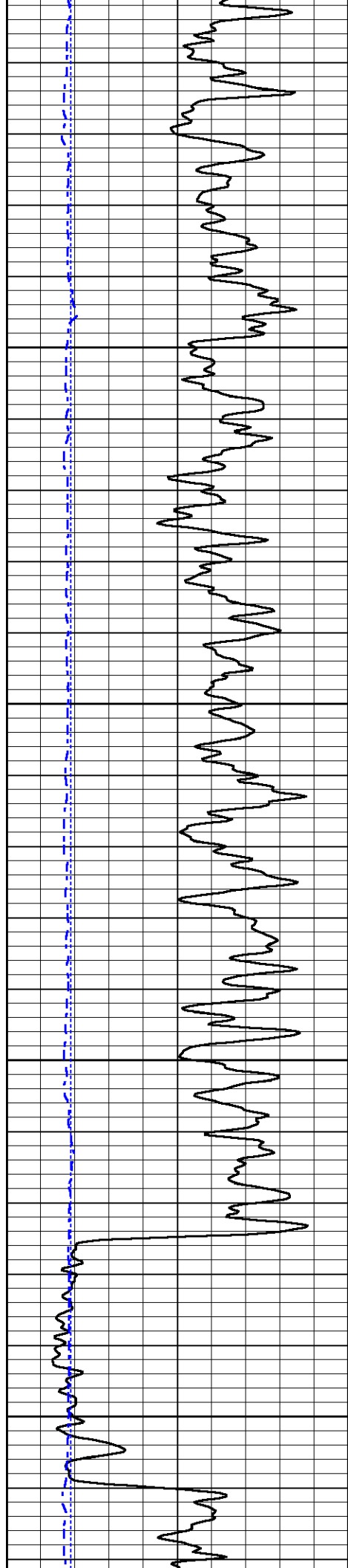


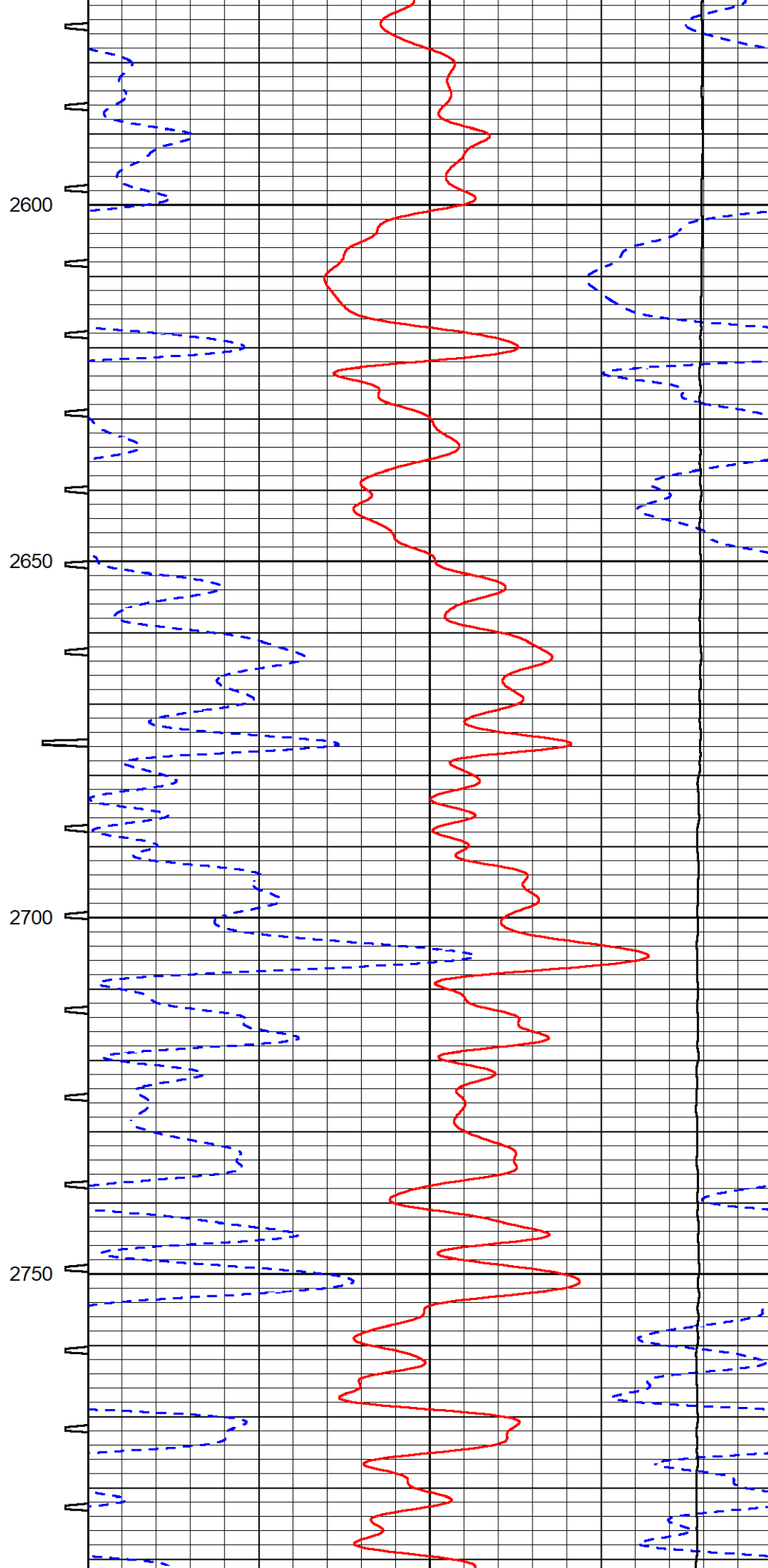
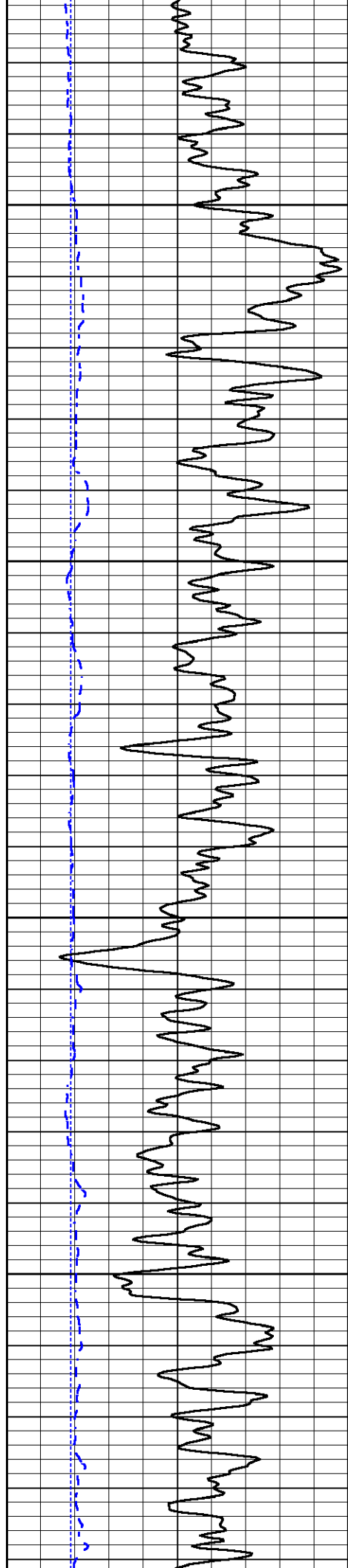


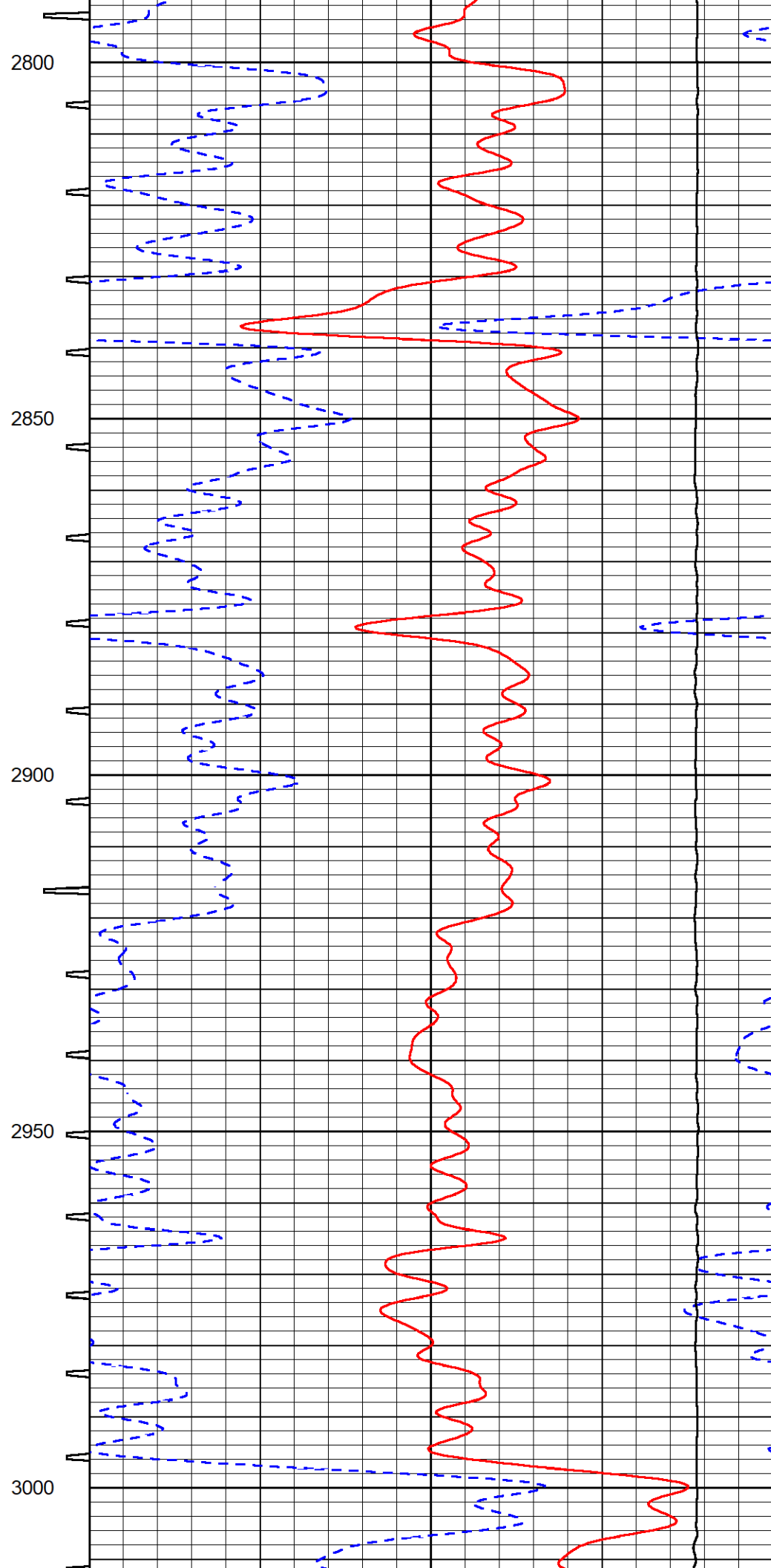
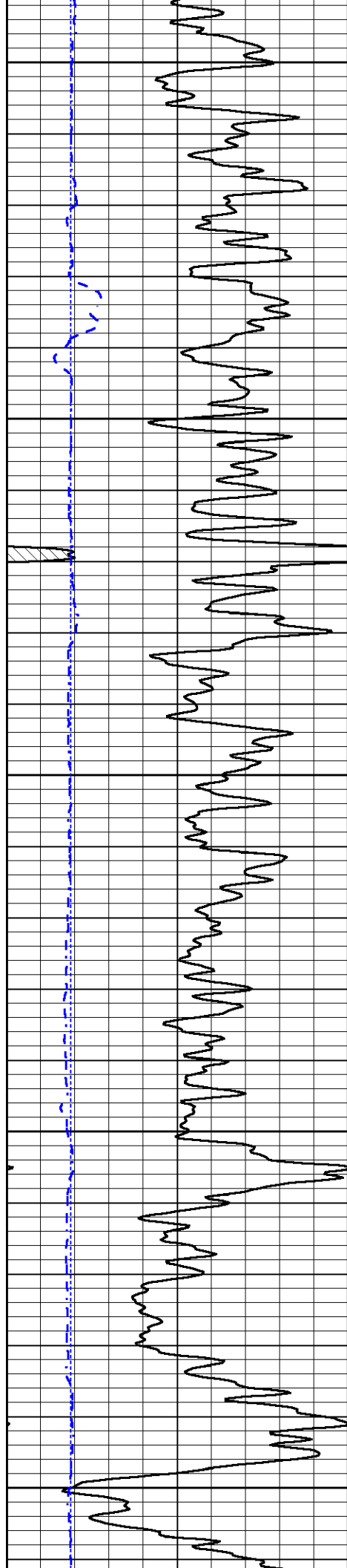


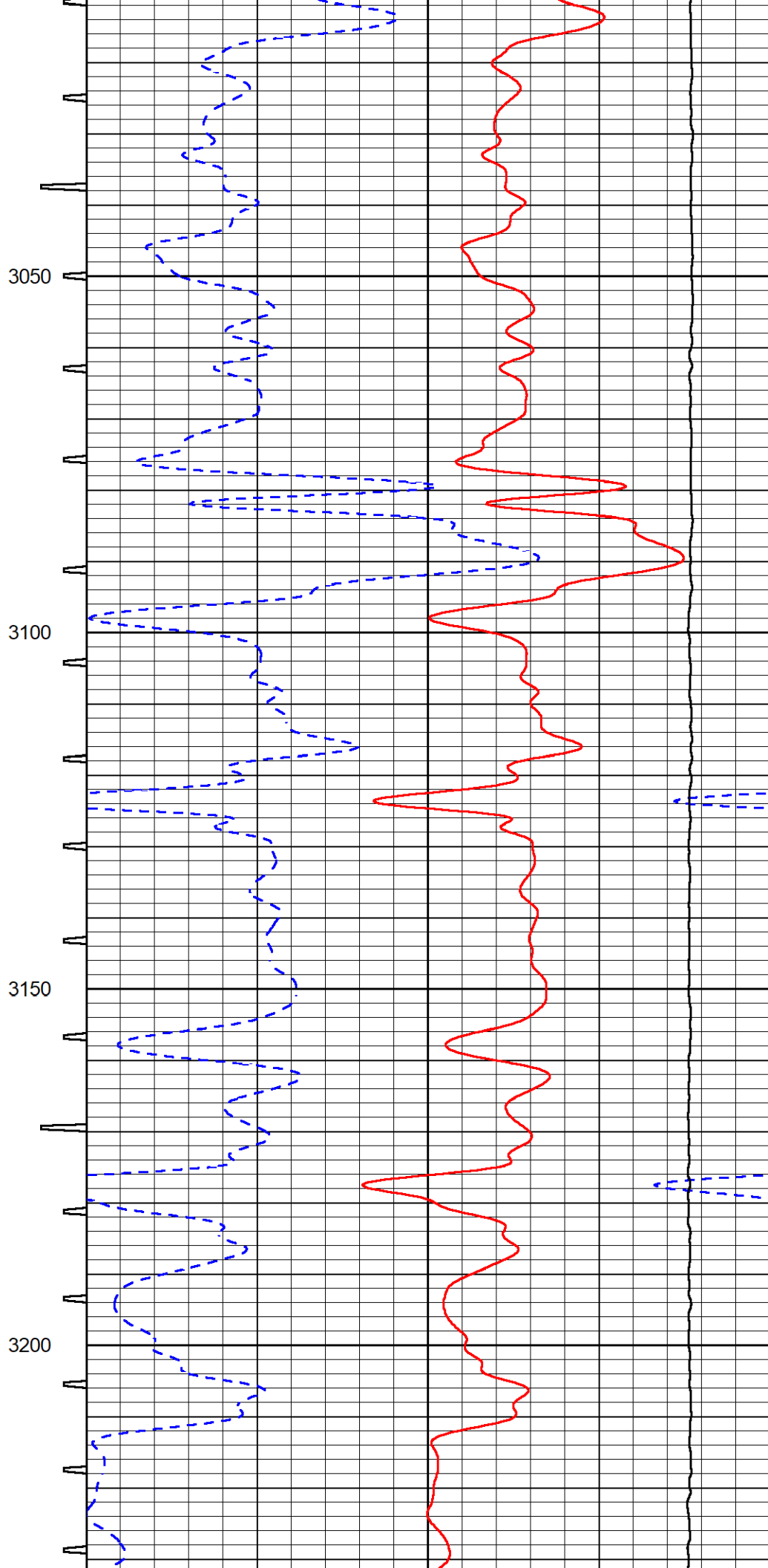
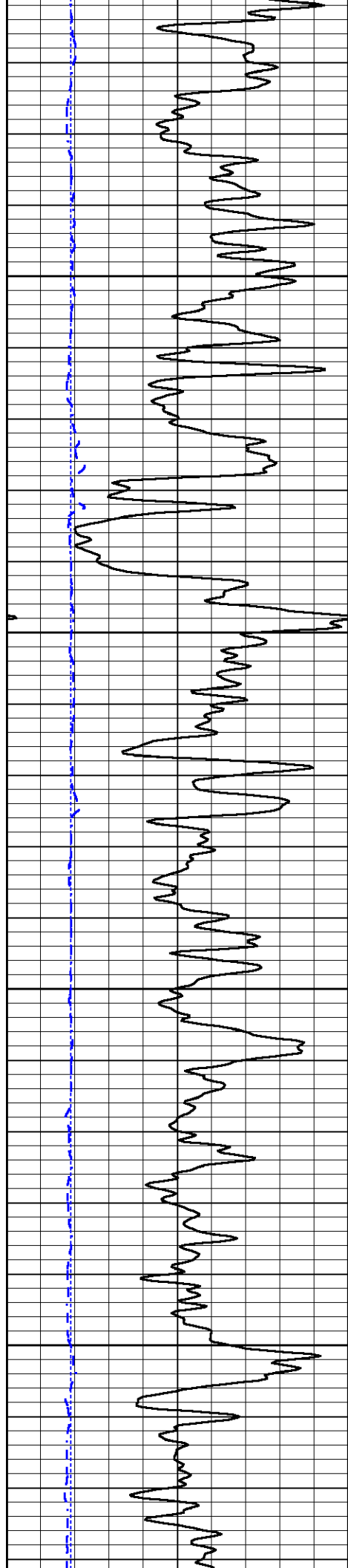


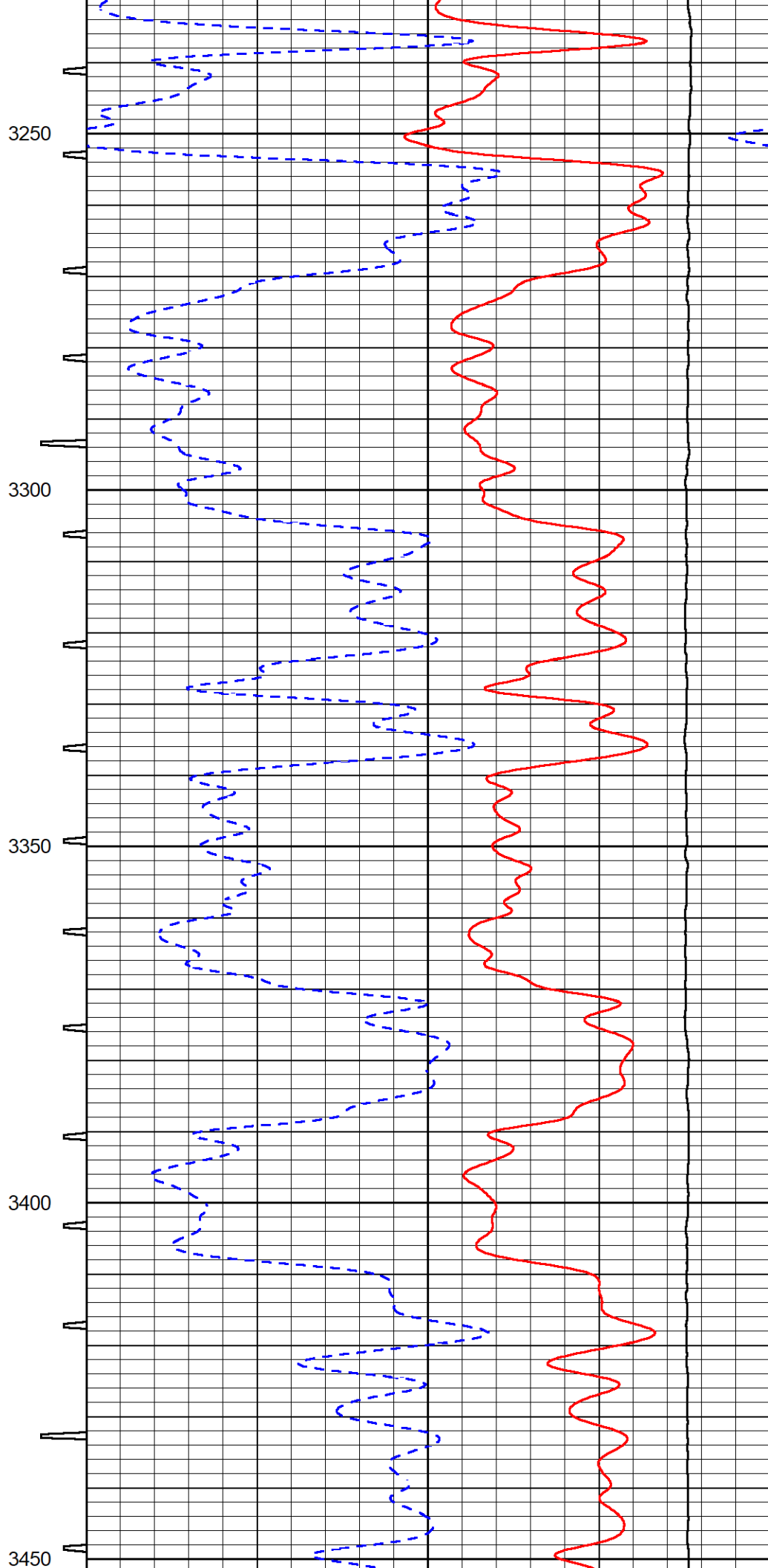
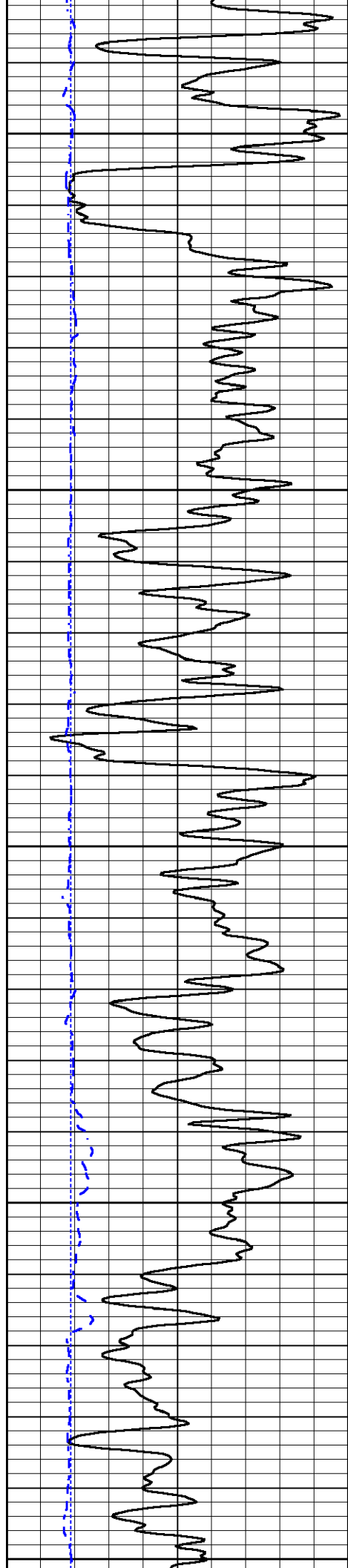


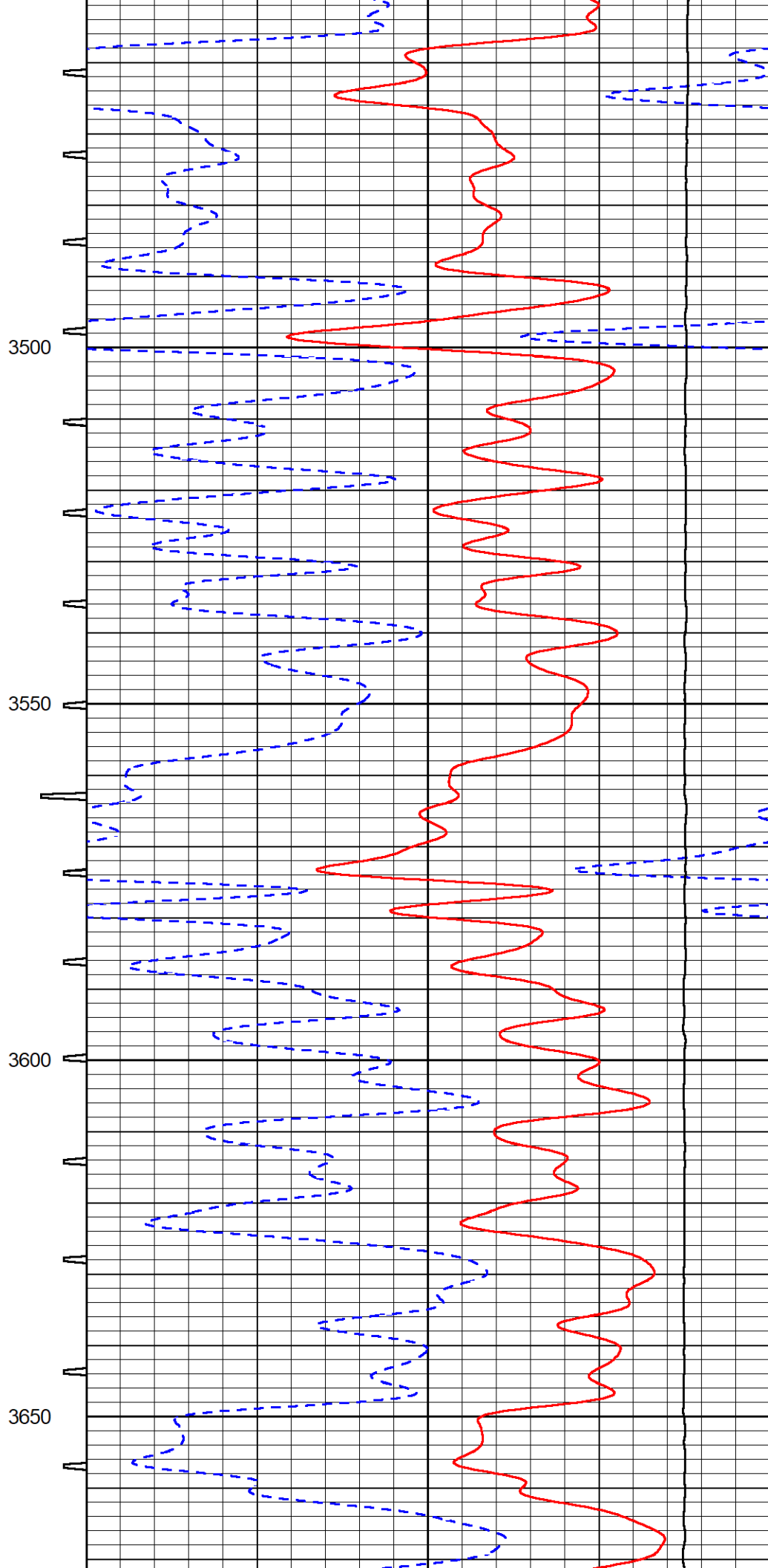
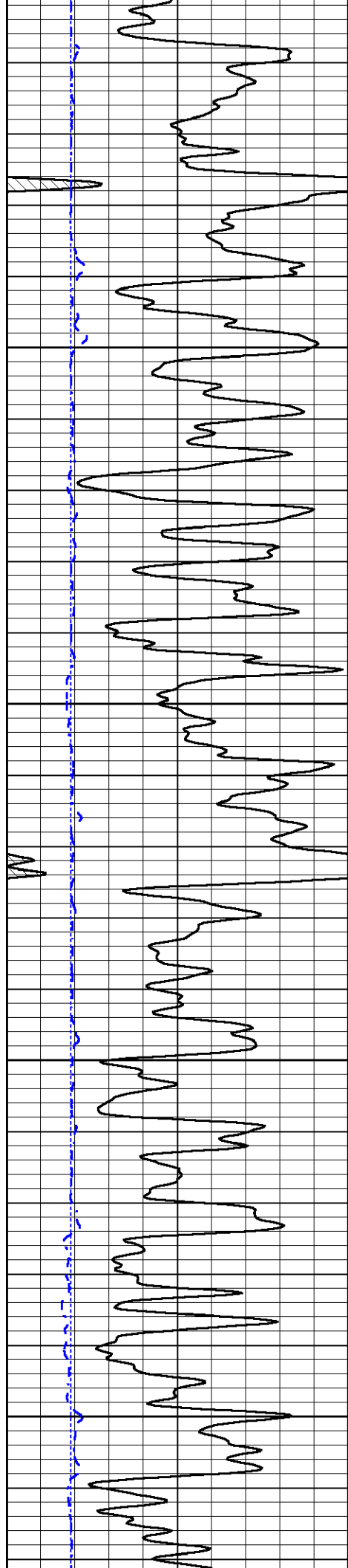


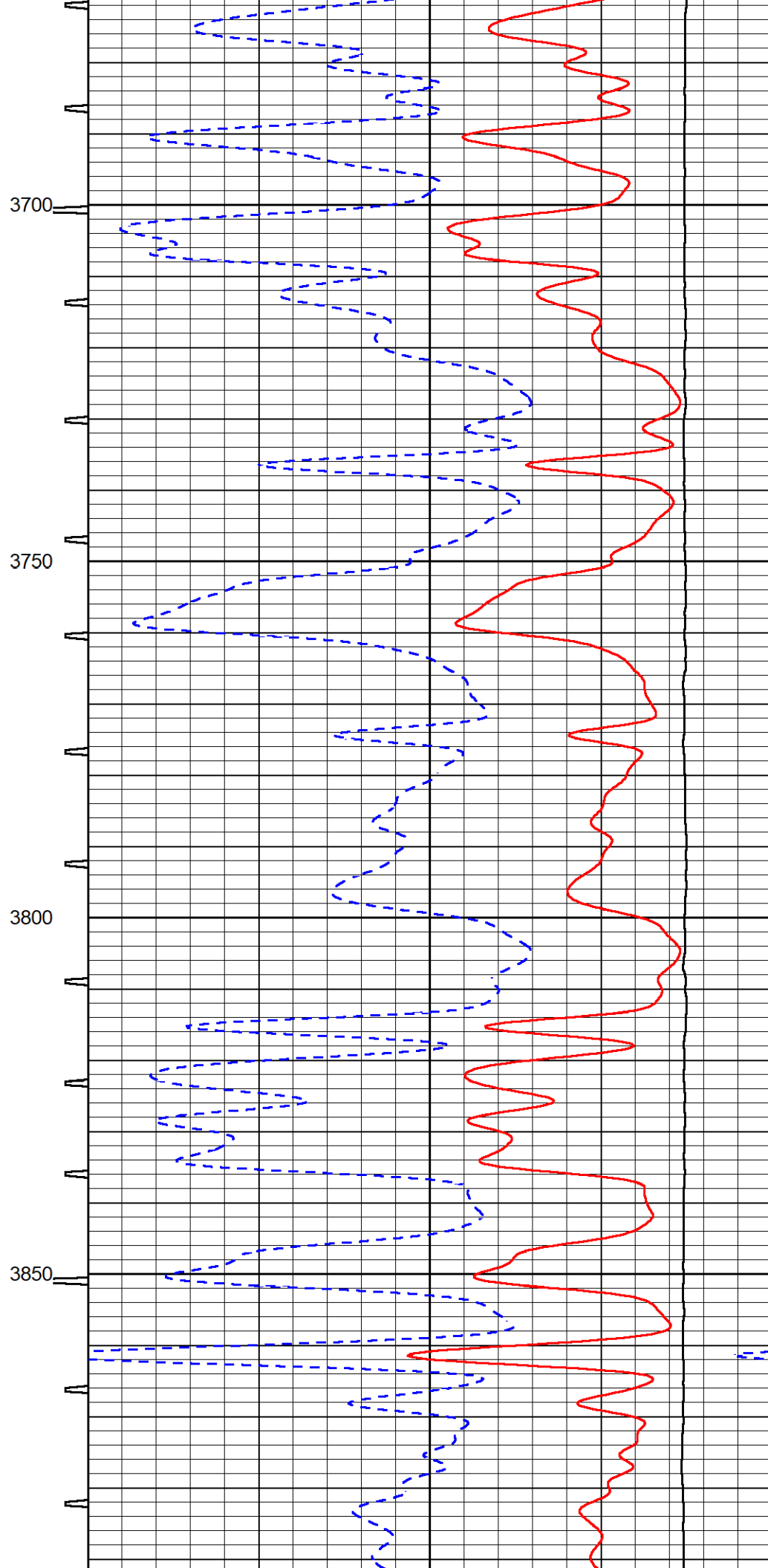
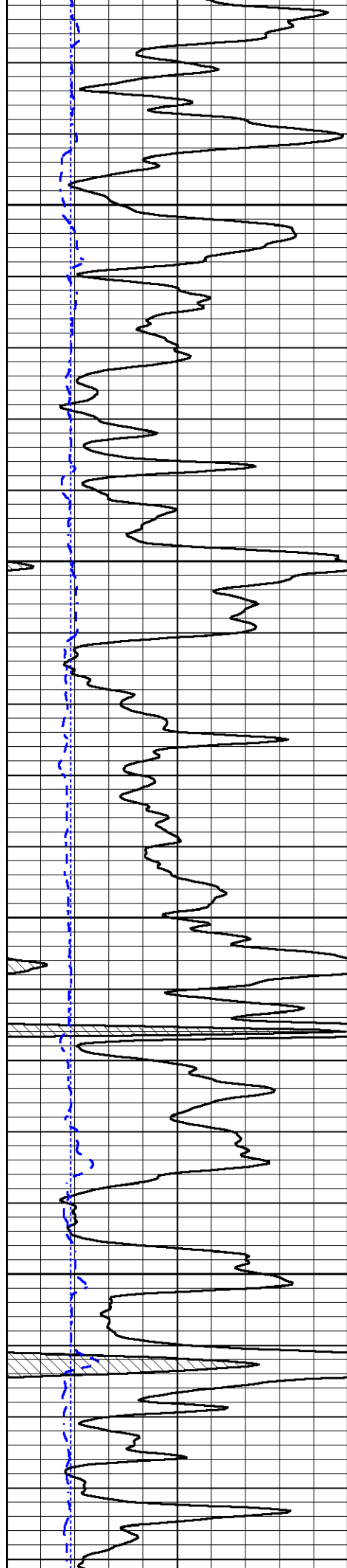


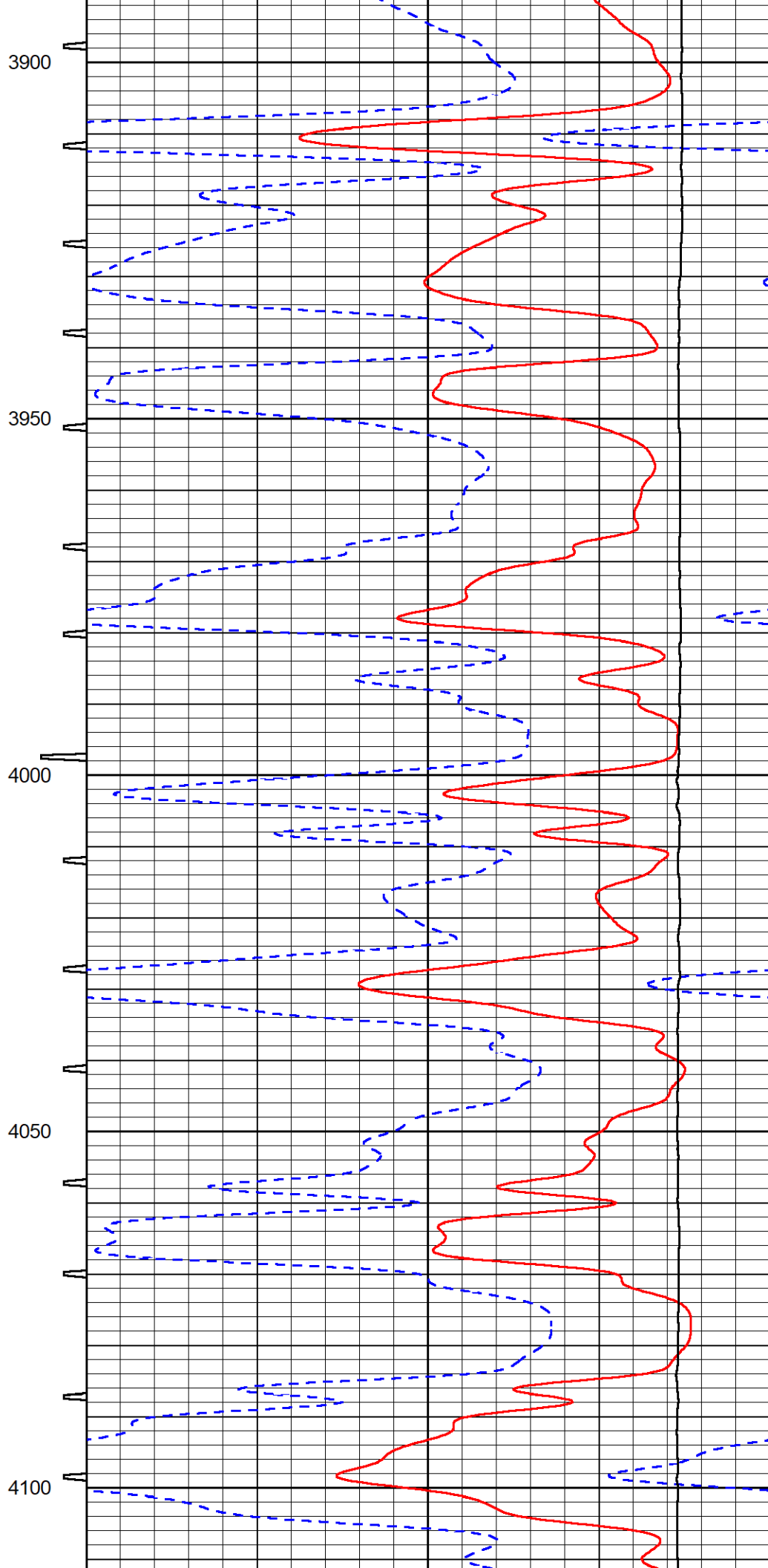
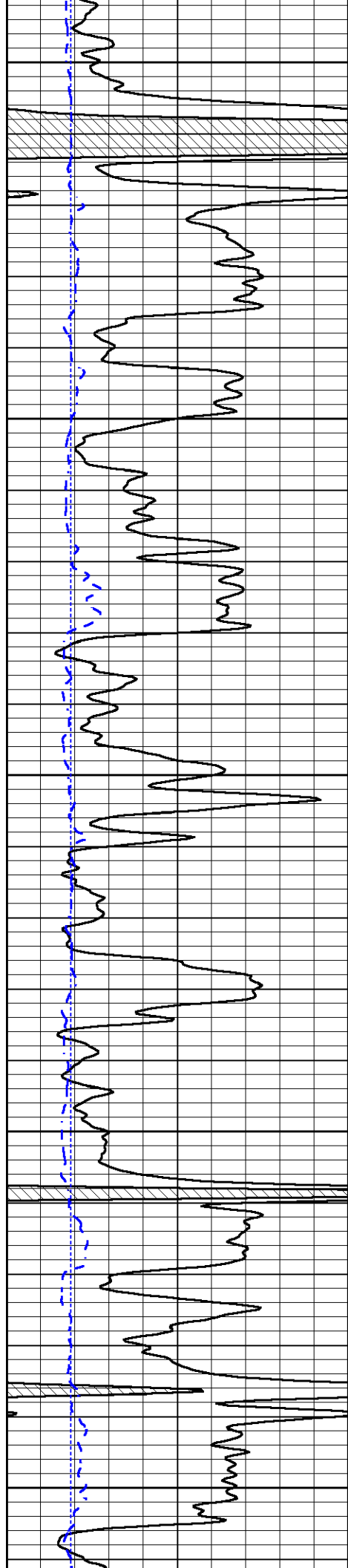


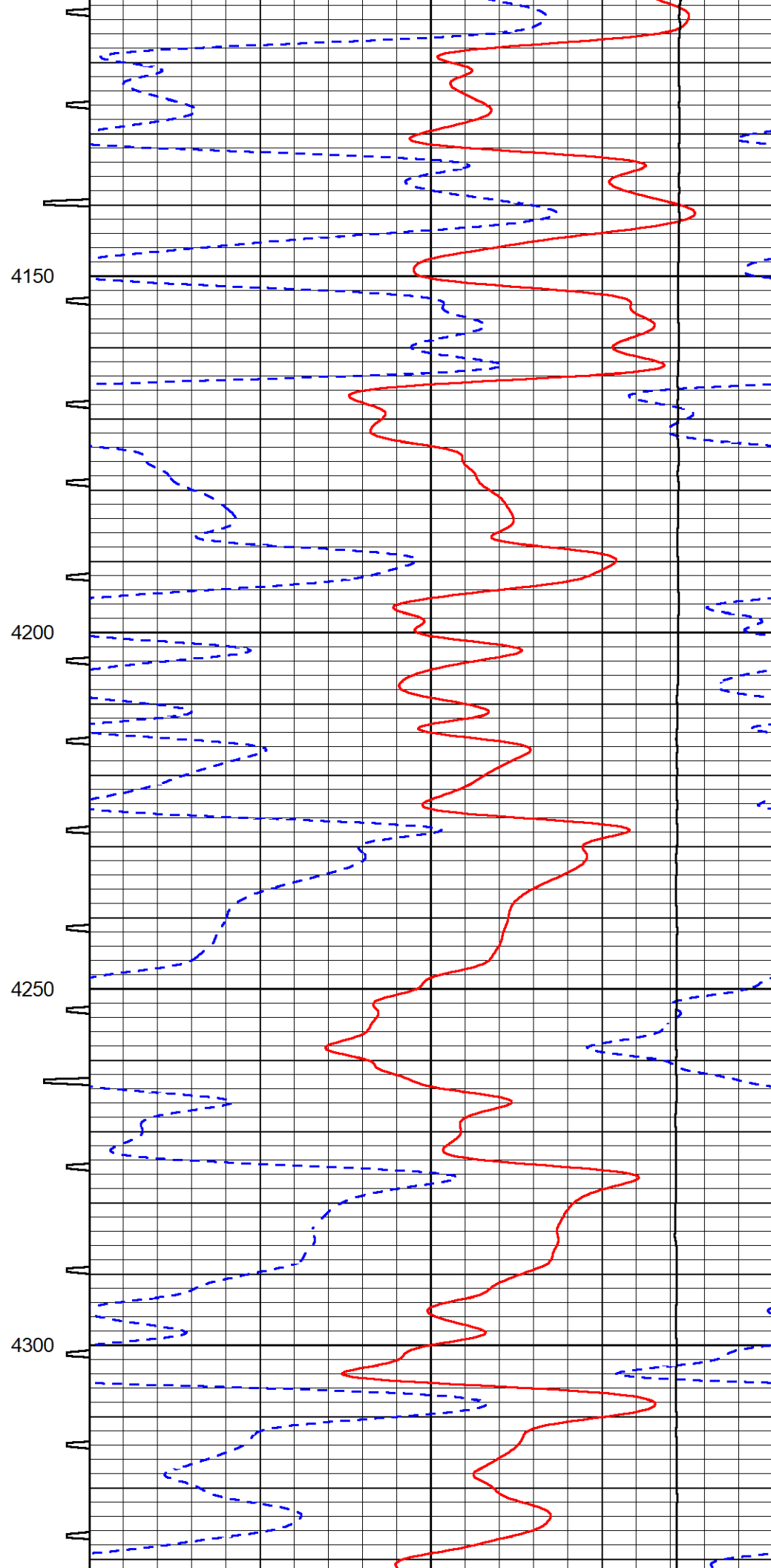
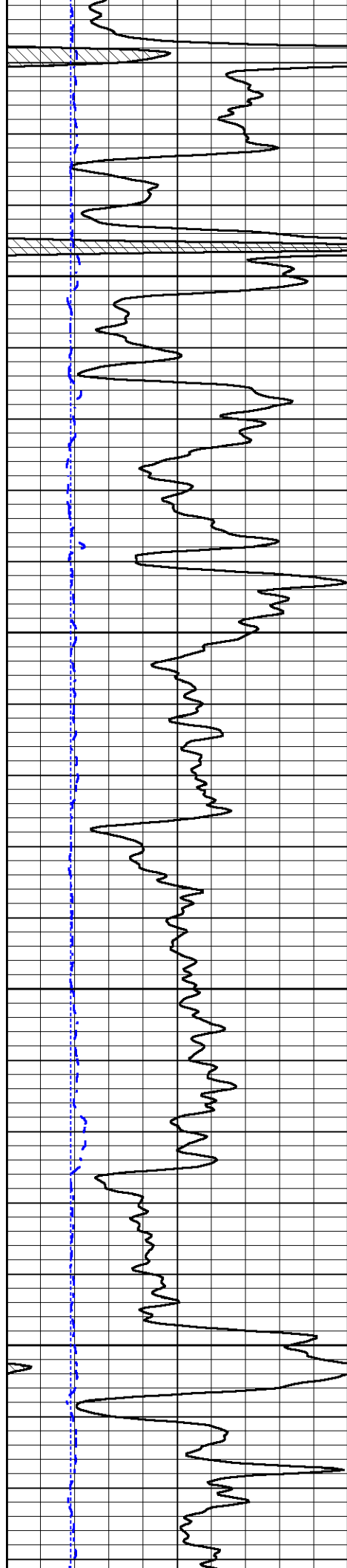


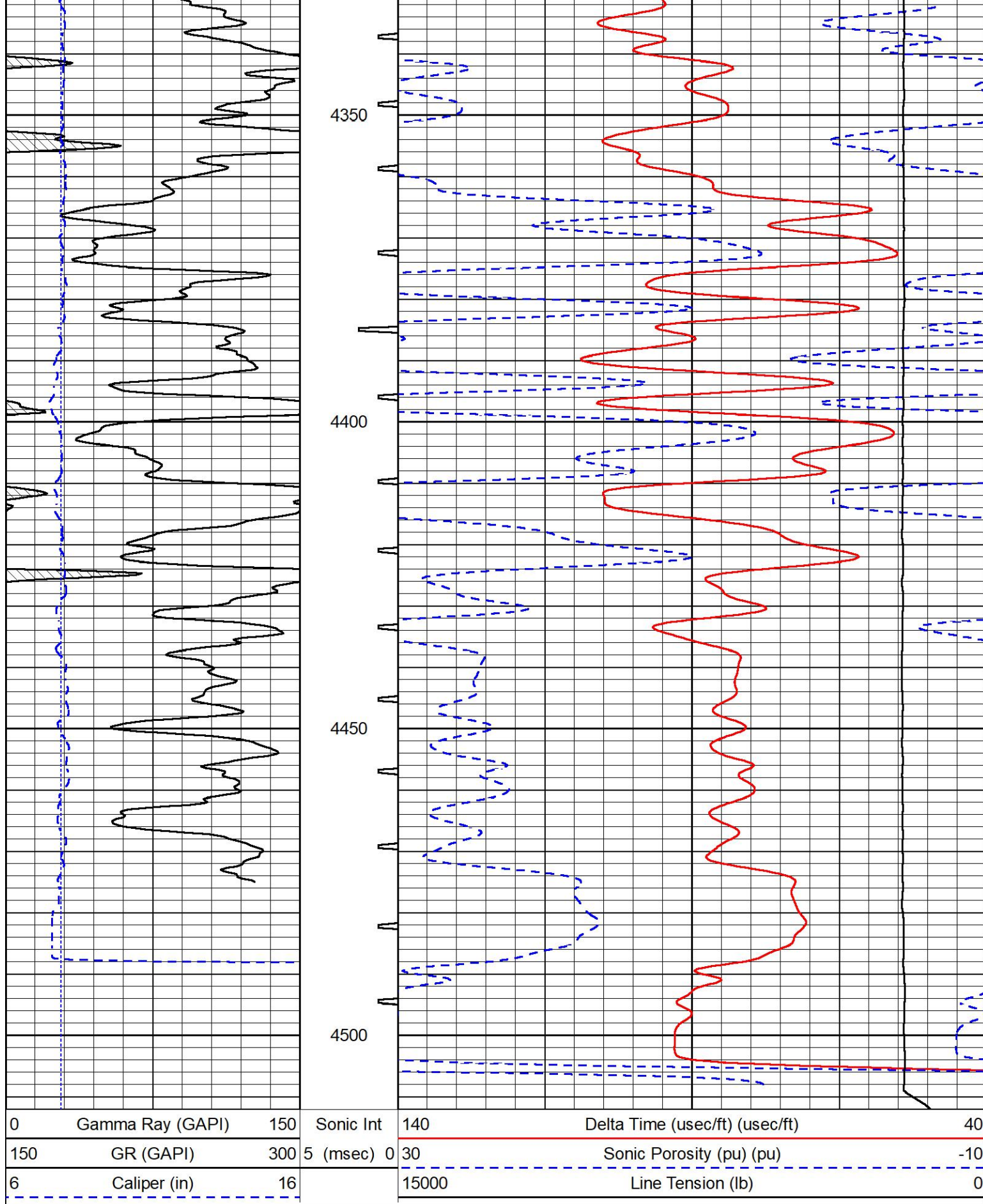










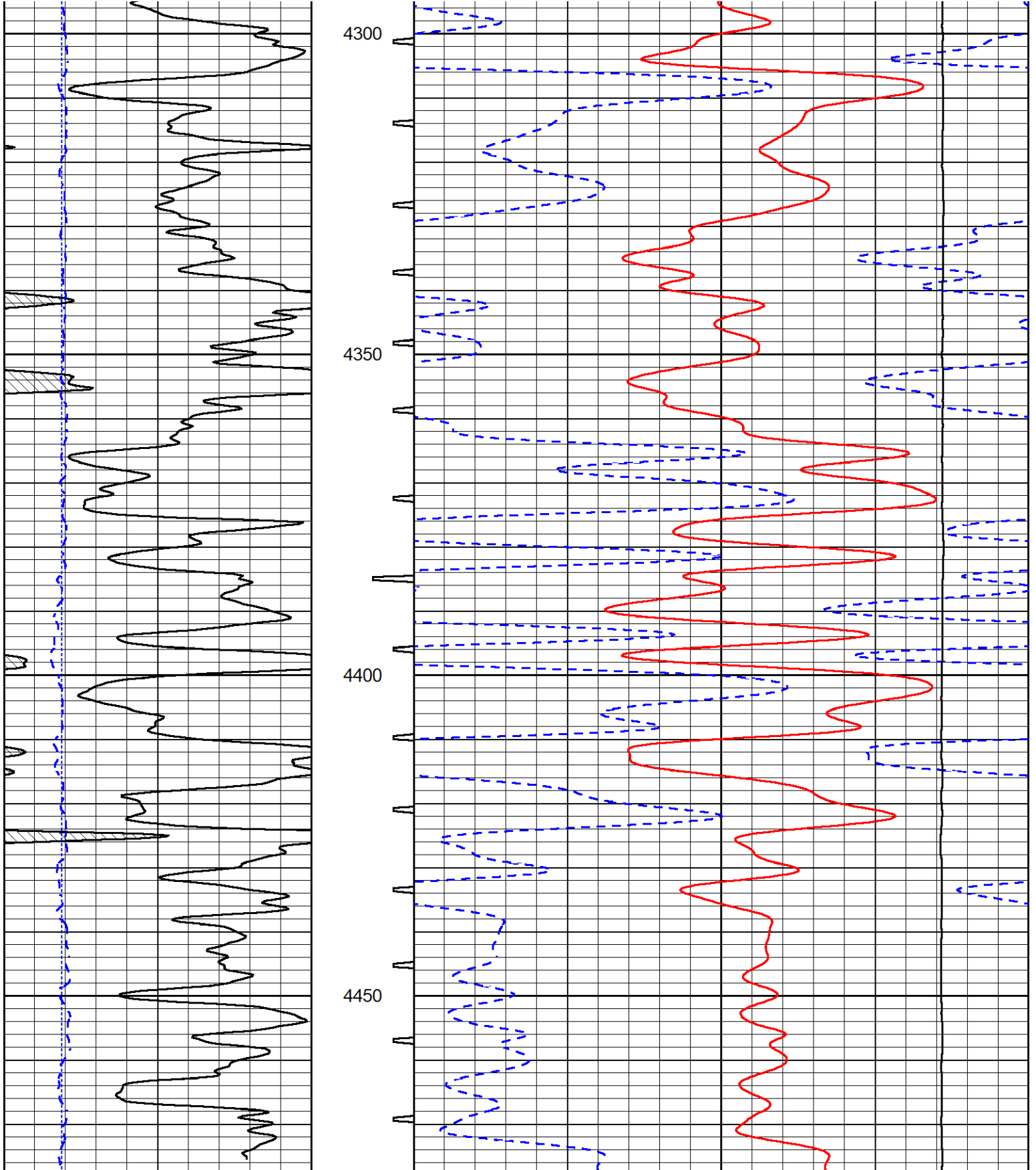


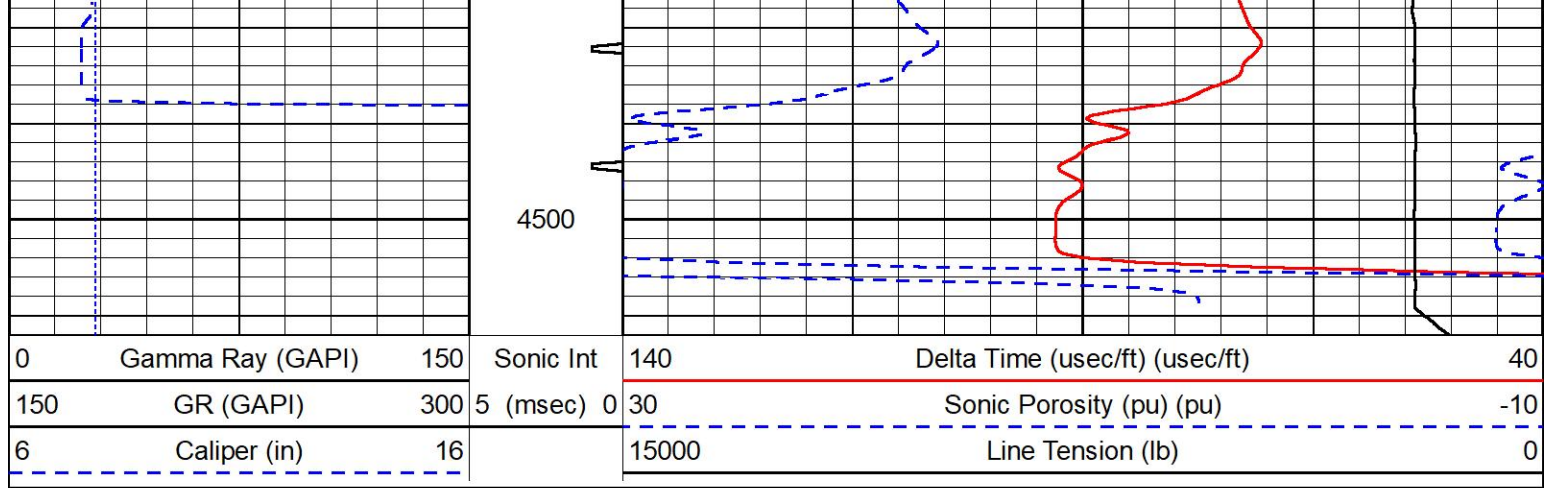
REPEAT SECTION

REPEAT PASS

|                     |                            |
|---------------------|----------------------------|
| Database File       | landmark_godfrey_a_1_32.db |
| Dataset Pathname    | stackml/pass2.1            |
| Presentation Format | _sonic                     |
| Dataset Creation    | Mon Apr 18 23:24:27 2022   |
| 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 |
| 6   | Caliper (in)     | 16  |            | 15000 | Line Tension (lb)              | 0   |





|         |                          |
|---------|--------------------------|
| Company | Landmark Resources, Inc. |
| Well    | Godfrey A 1-32           |
| Field   | Unnamed                  |
| County  | Sheridan                 |
| State   | Kansas                   |