



# Borehole Compensated Sonic Log

DIGITAL LOG (785) 625-3858

API No.

15-193-20792-00-00

Company Murfin Drilling Company, Inc.

Well Steele "A" #1-20

Field Wildcat

County Thomas

State Kansas

Location

1760' FNL / 1450' FEL

Sec: 20

Twp: 10S

Rge: 34W

Permanent Datum Ground Level Elevation 3233

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

K.B. 3238  
D.F. MEL / DIL  
G.L. 3233

Elevation

Date 4/16/2011

Run Number Two

Type Log BHC Sonic

Depth Driller 4845

Depth Logger 4845

Bottom Logged Interval 4834

Top Logged Interval 200

Type Fluid In Hole Chemical

Salinity, PPM CL 8000

Density 9.0

Level Full

Max. Rec. Temp. F 126

Operating Rig Time 5 Hours

Equipment -- Location 17 Hays

Recorded By R. Barnhart

Witnessed By Paul Gunzelman

Borehole Record

Casing Record

| Run No | Bit   | From | To  | Size  | Wgt. | From | To  |
|--------|-------|------|-----|-------|------|------|-----|
| One    | 12.25 | 00   | 246 | 8.625 | 23#  | 00   | 246 |
| Two    | 7.875 | 246  | TD  |       |      |      |     |
|        |       |      |     |       |      |      |     |
|        |       |      |     |       |      |      |     |
|        |       |      |     |       |      |      |     |
|        |       |      |     |       |      |      |     |
|        |       |      |     |       |      |      |     |
|        |       |      |     |       |      |      |     |
|        |       |      |     |       |      |      |     |
|        |       |      |     |       |      |      |     |

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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

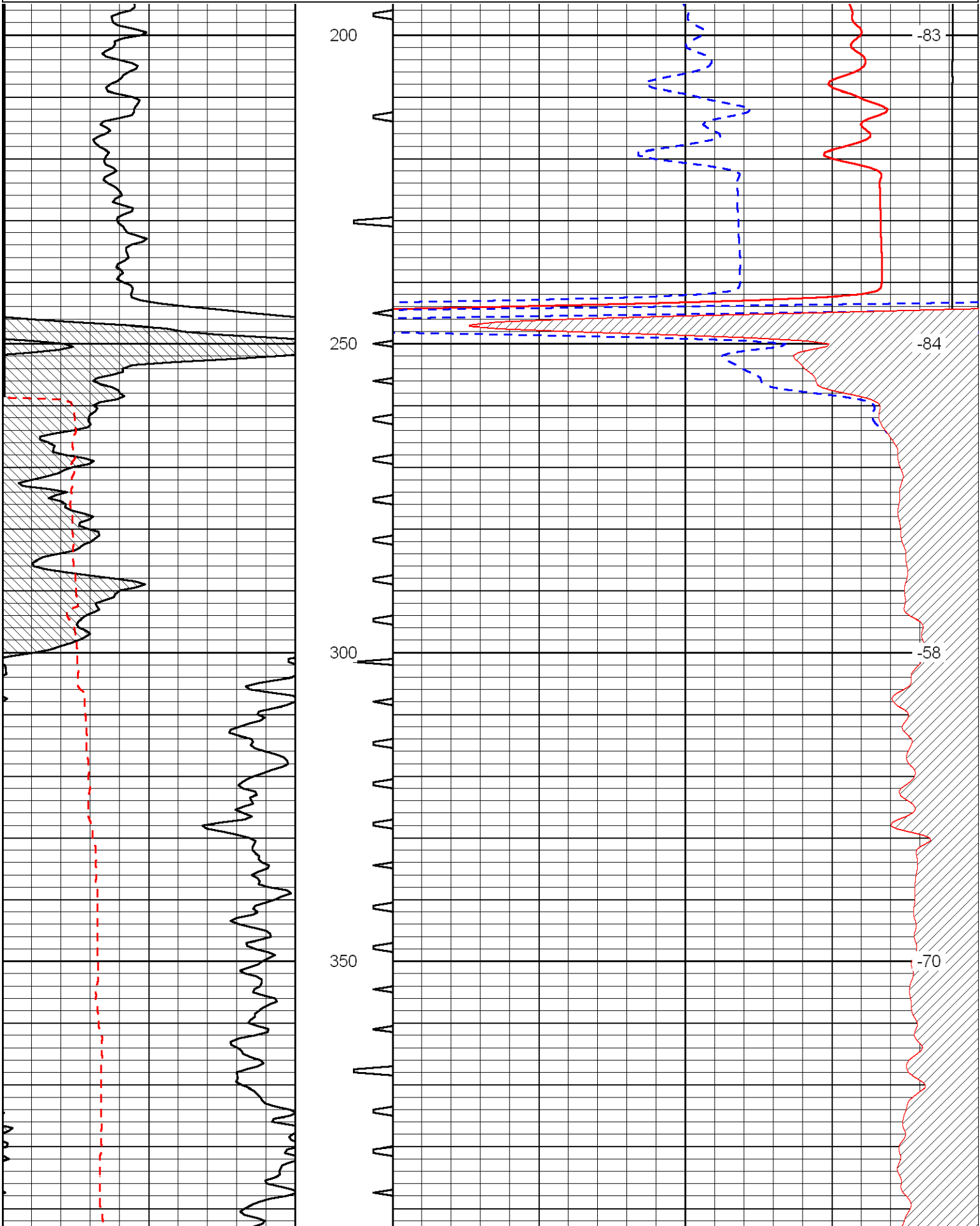
Thank you for using Log-Tech, Inc.  
(785) 625-3858

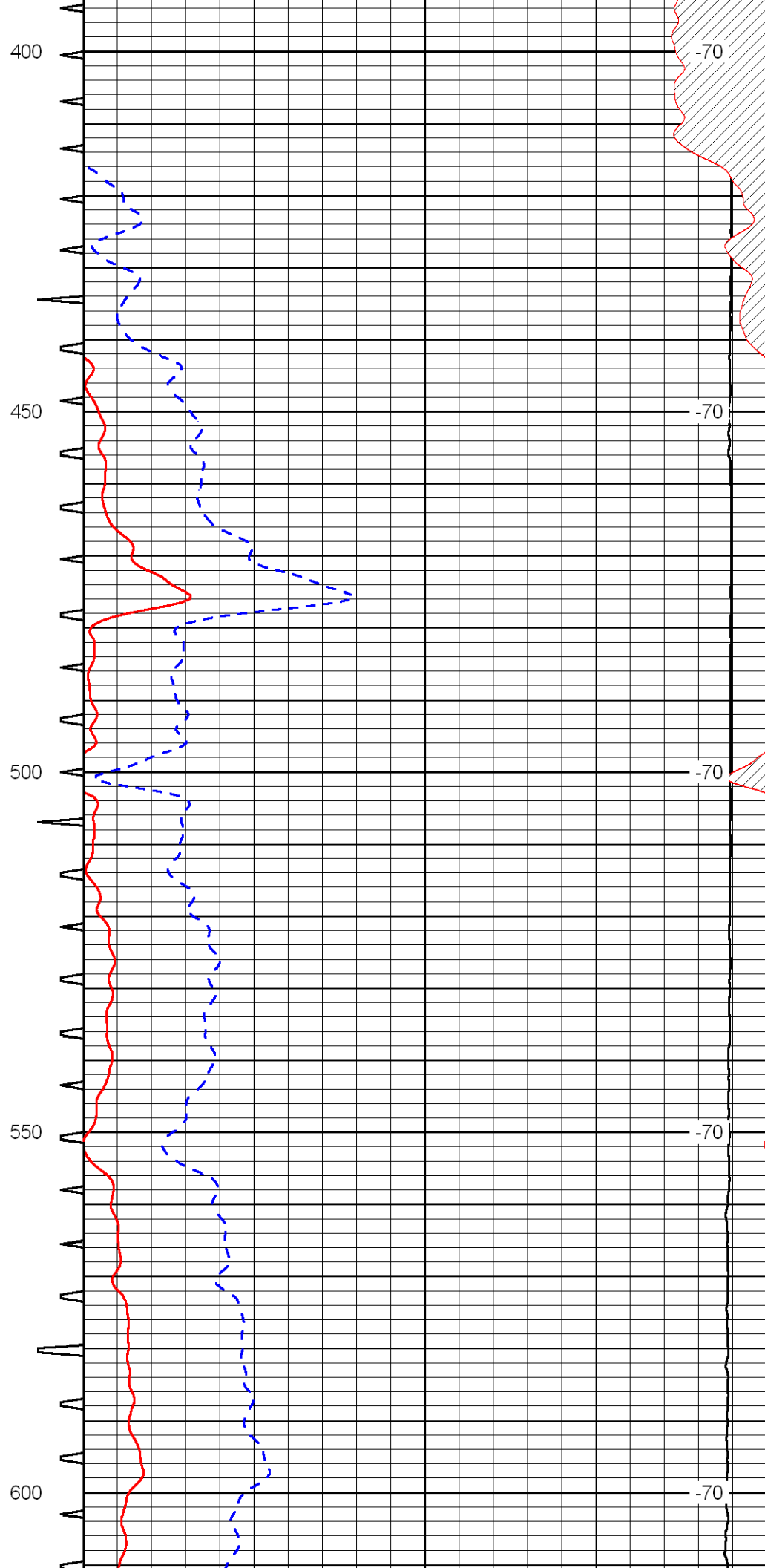
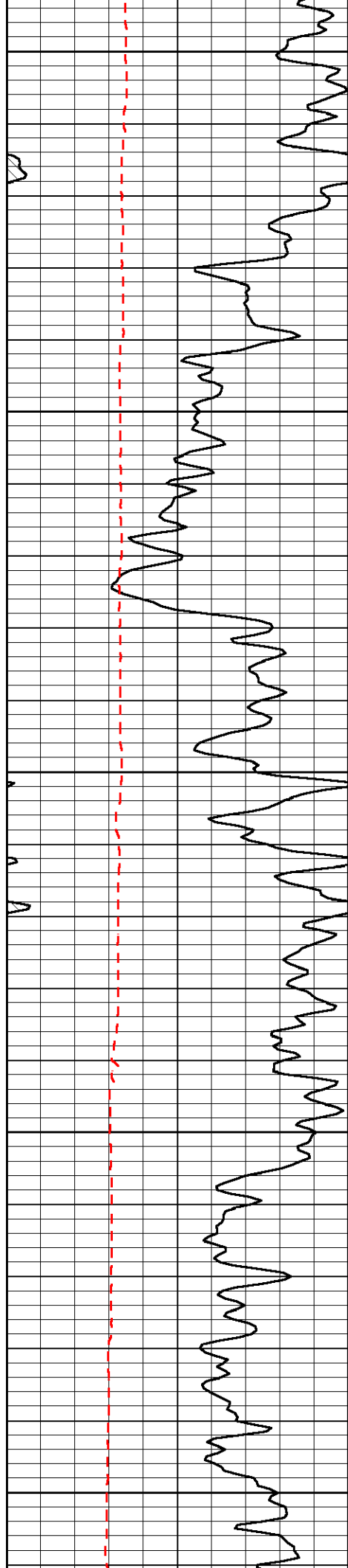
Monument, KS:  
2W to Hwy 25, 5N to Rd. D,  
4W to 15 Rd. 1/2S, W into

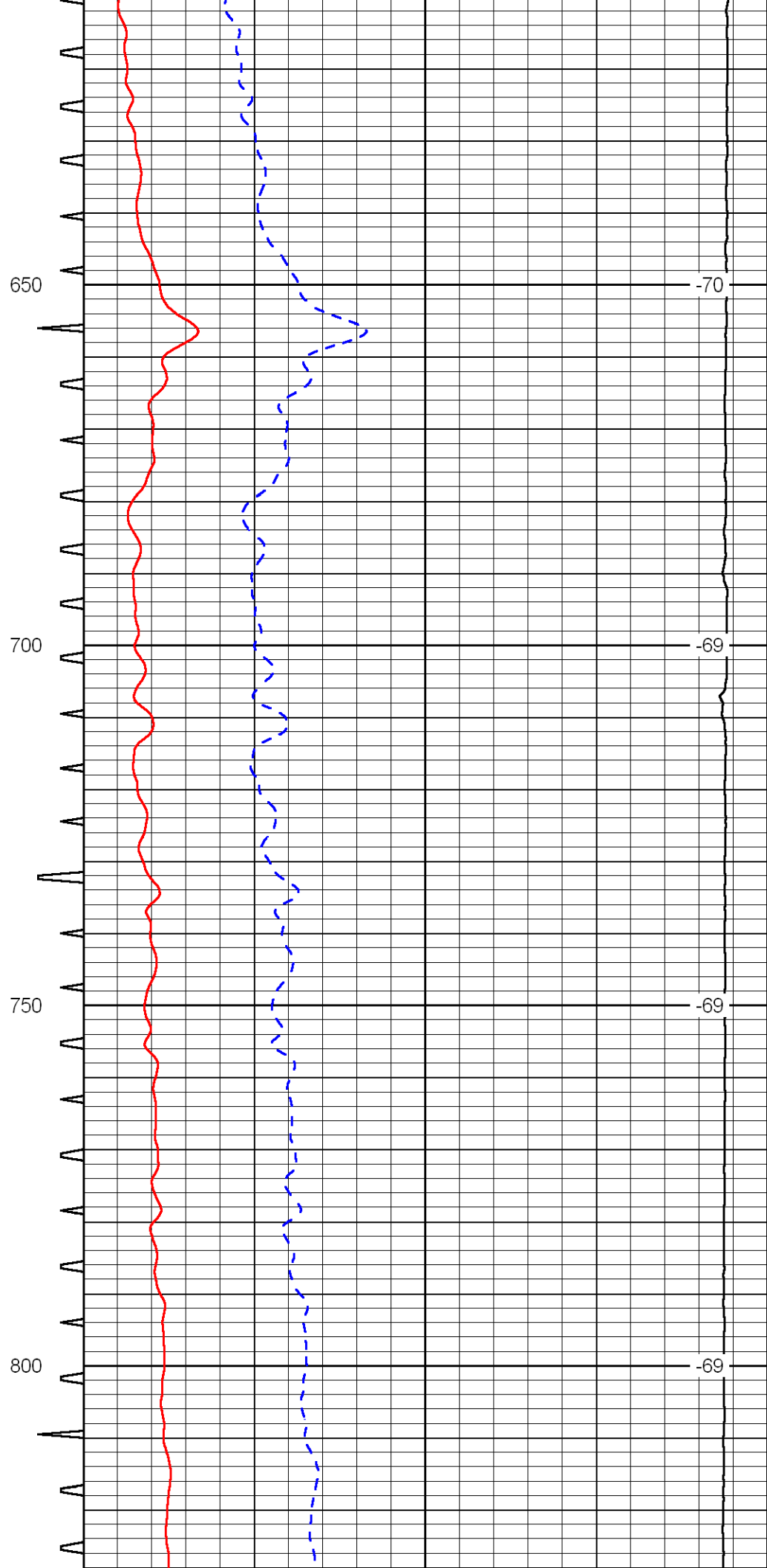
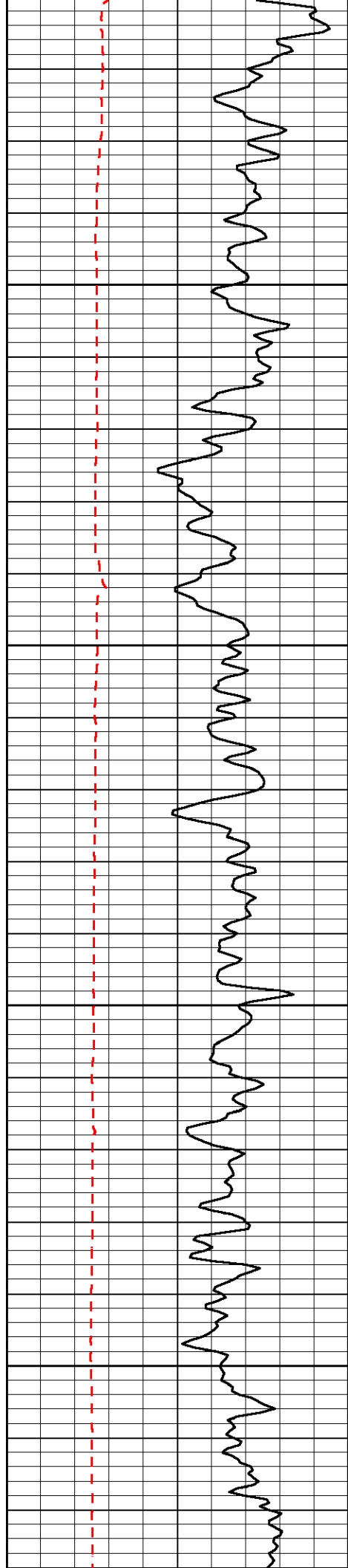
Database File: murfindil.db  
Dataset Pathname: dil/murmain  
Presentation Format: sonic  
Dataset Creation: Sat Apr 16 08:34:31 2011  
Charted by: Depth in Feet scaled 1:240

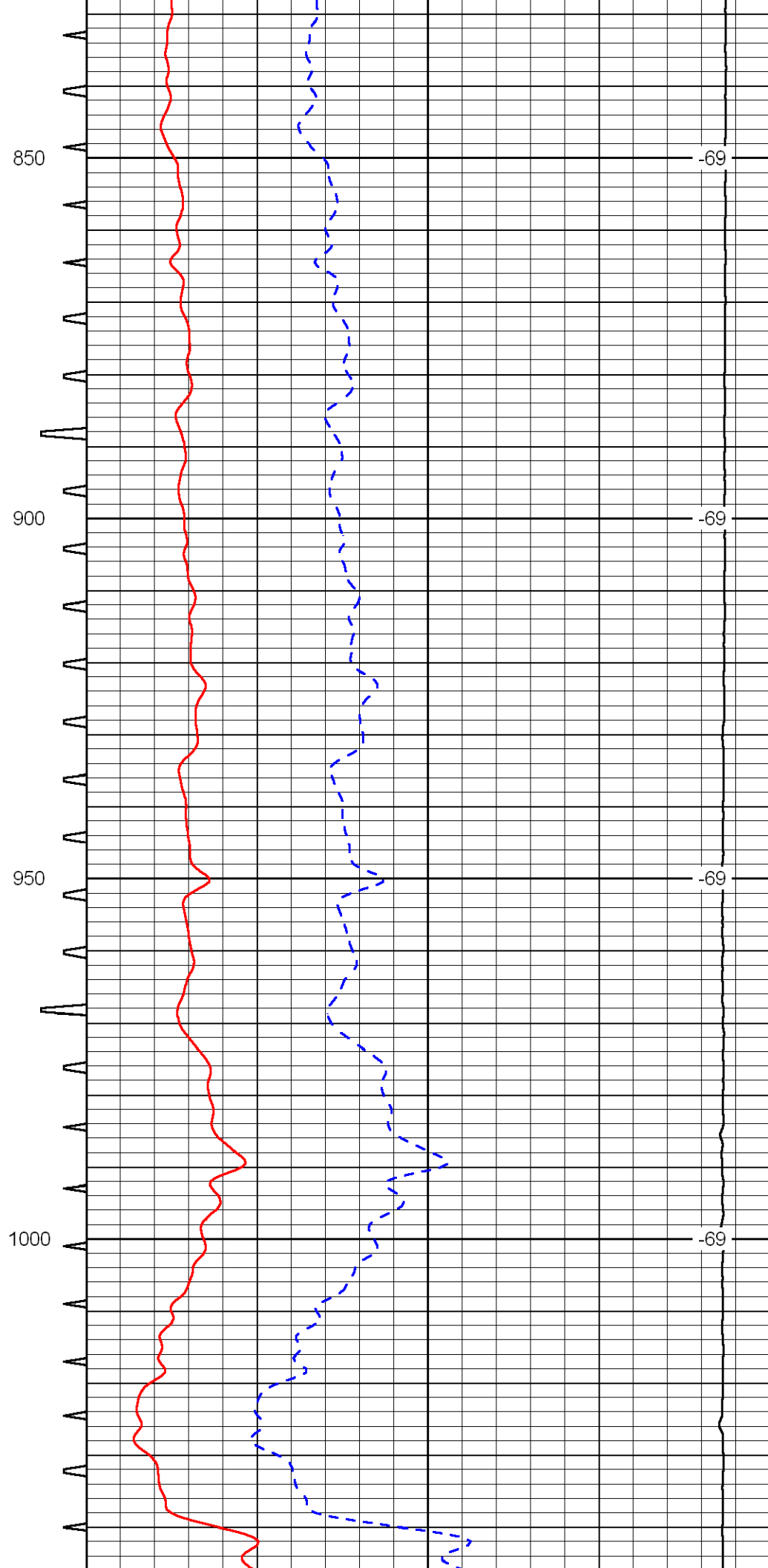
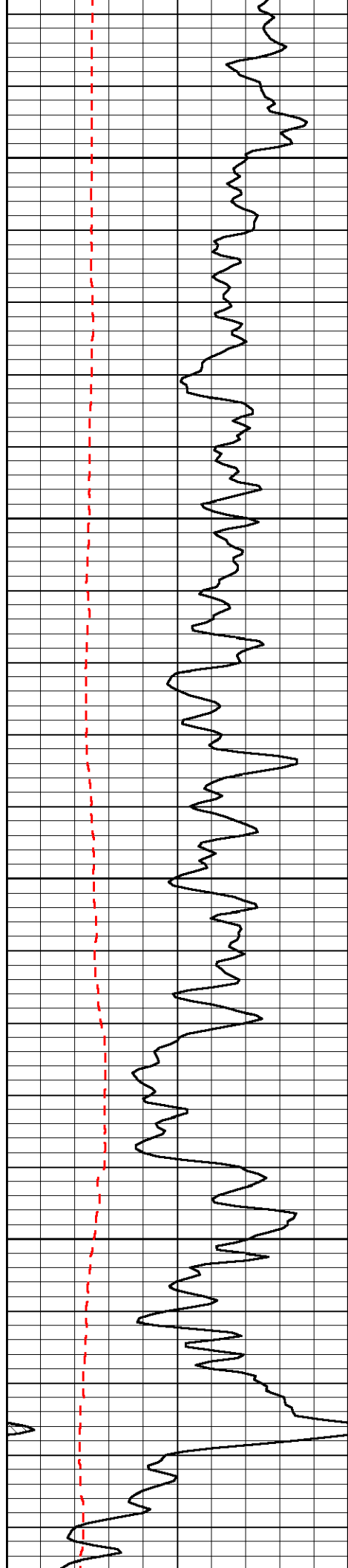
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|-----|-------------|-----|-----------|-----|----------------------|-----|
| 0   | Gamma Ray   | 150 | Sonic Int | 140 | Delta Time (usec/ft) | 40  |
| 150 | Gamma Ray   | 300 | 5         | 0   | Sonic Porosity       | -10 |
| 6   | dCAL (GAPI) | 16  |           |     | LTEN (lb)            | 0   |

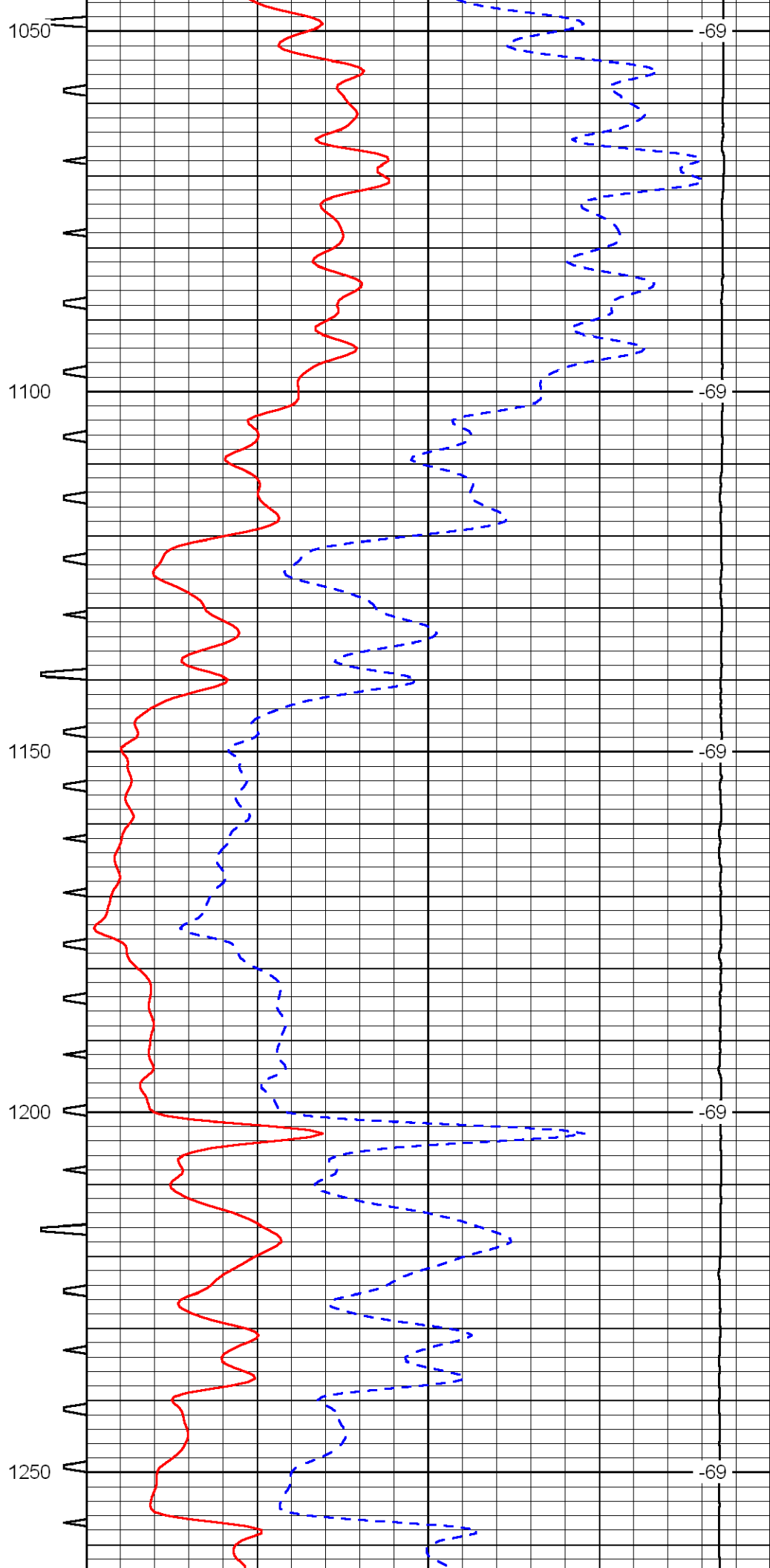
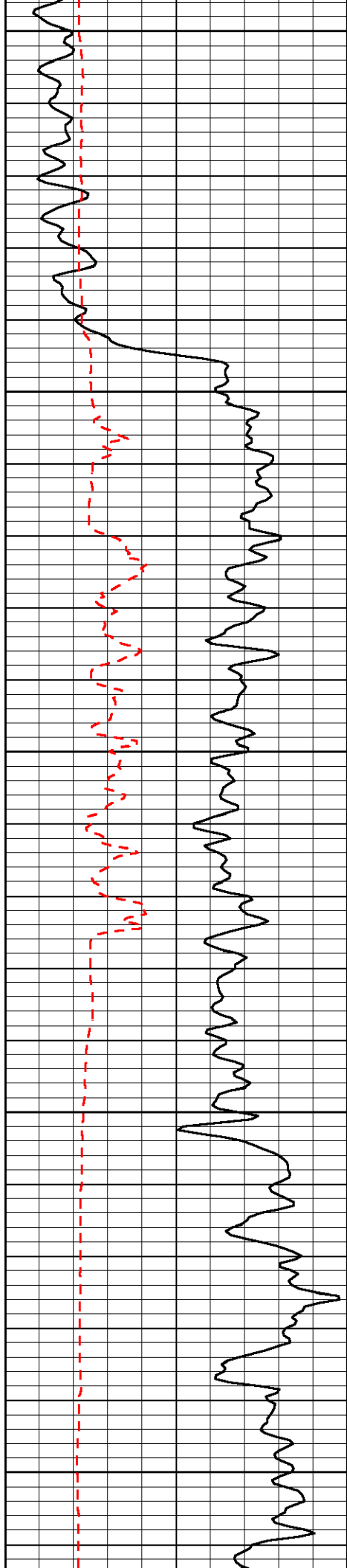
LSPD

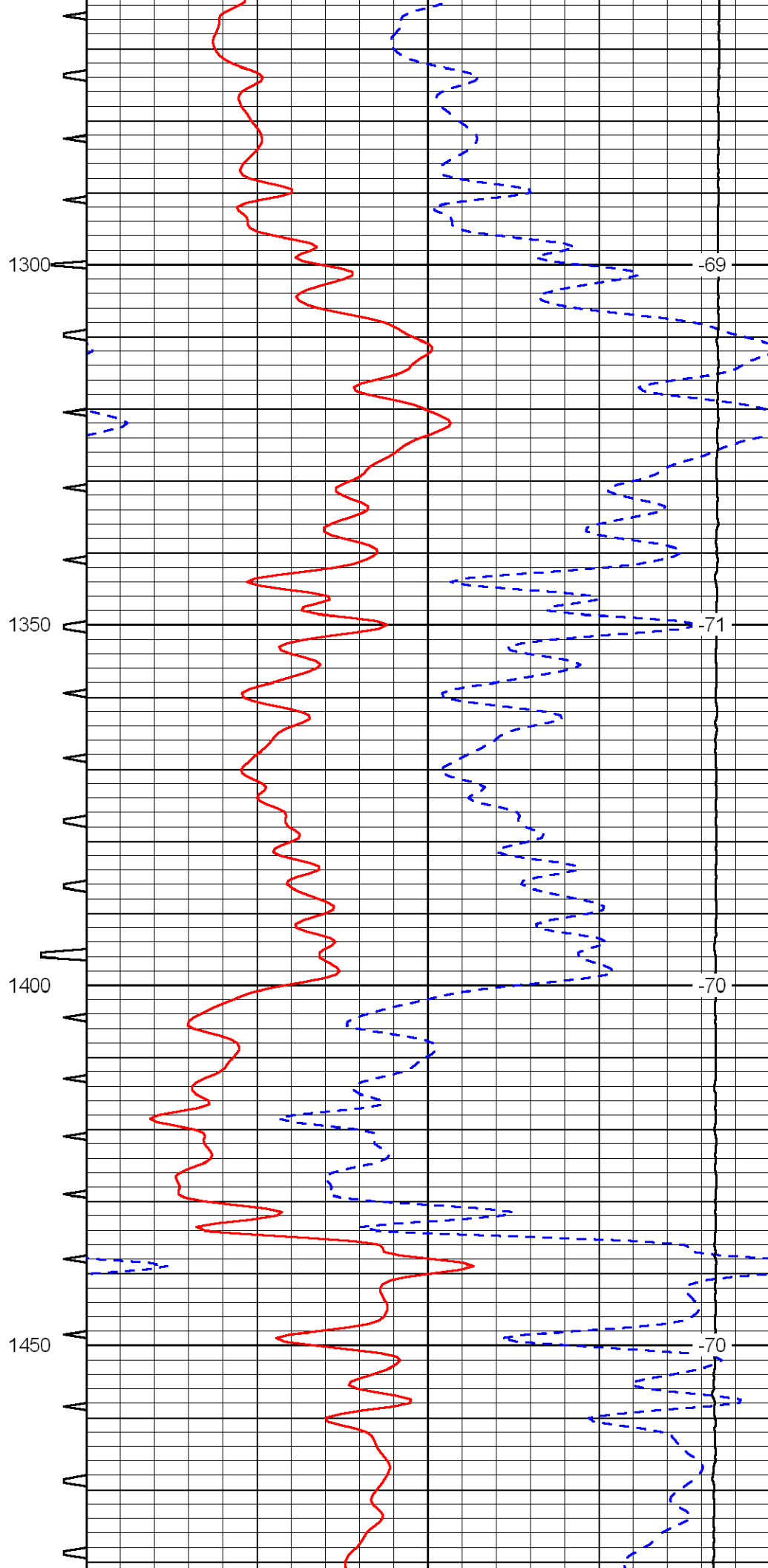
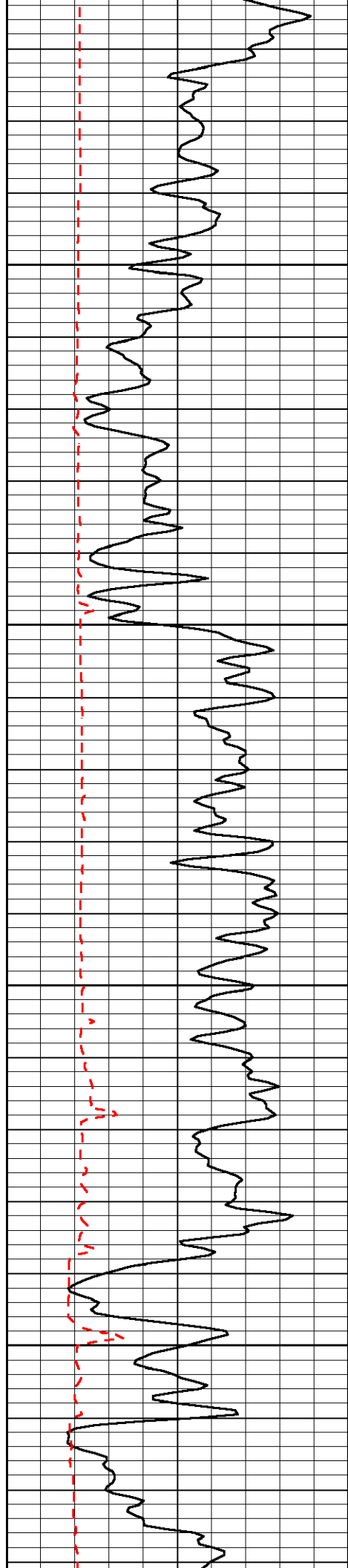


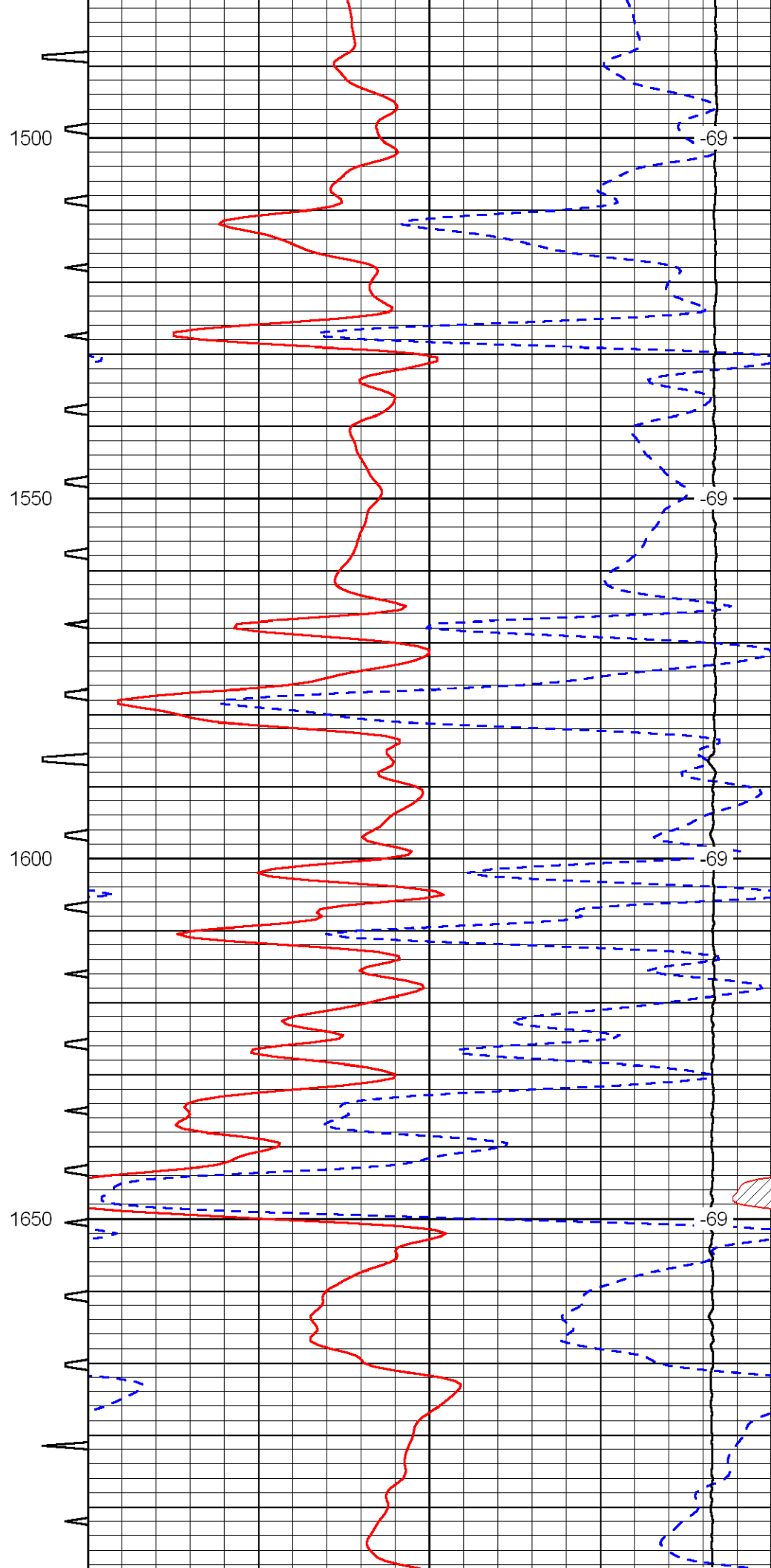
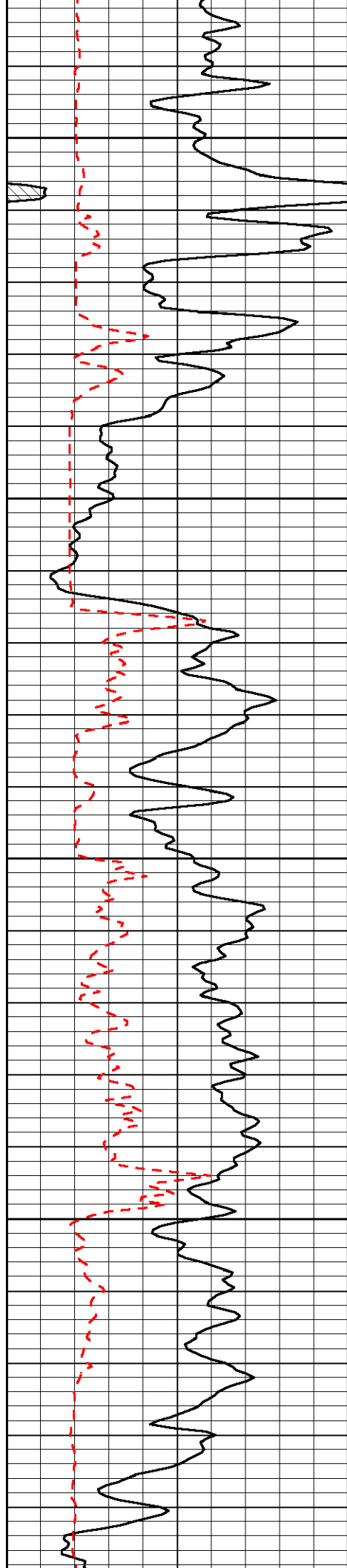


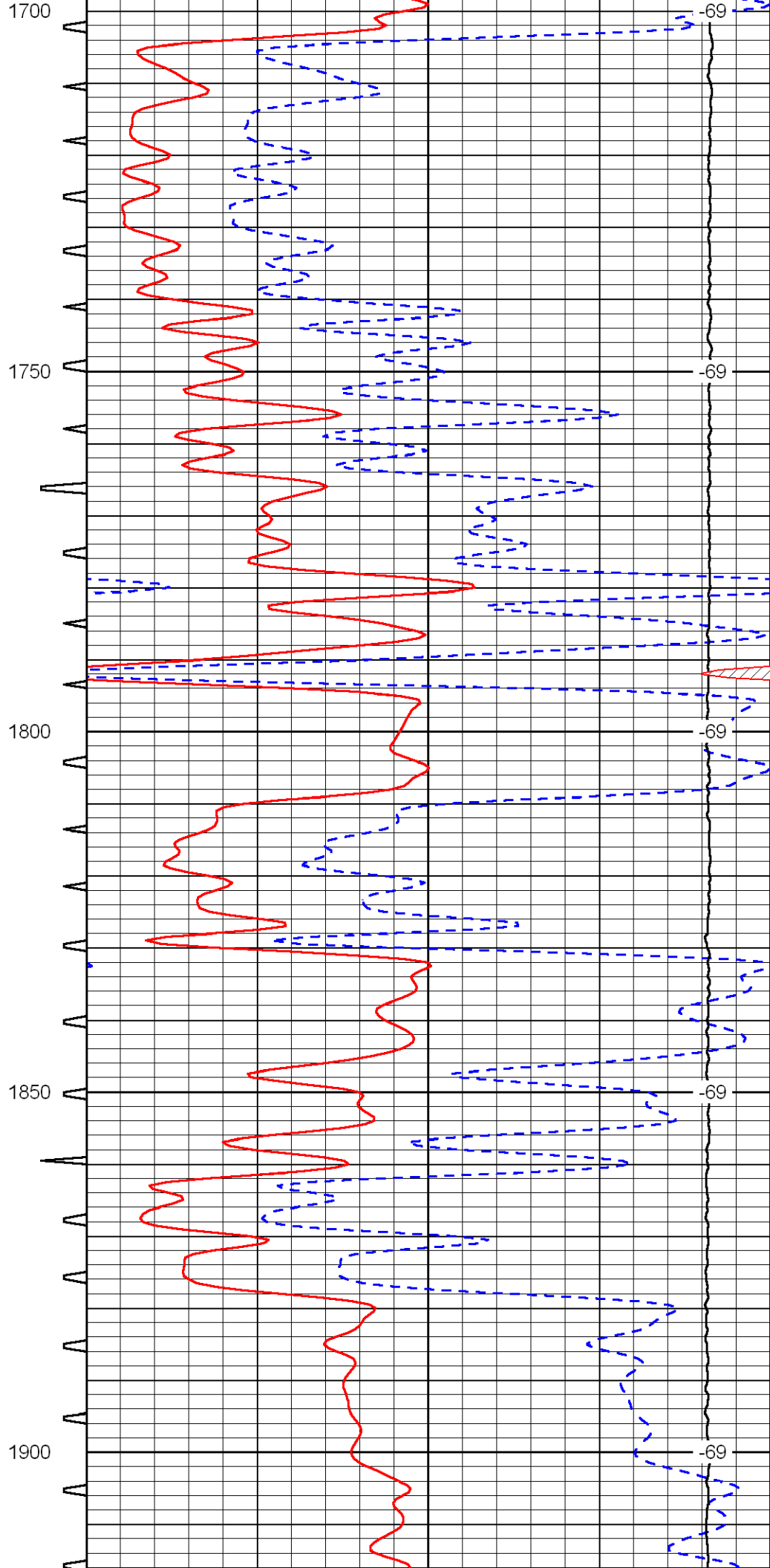
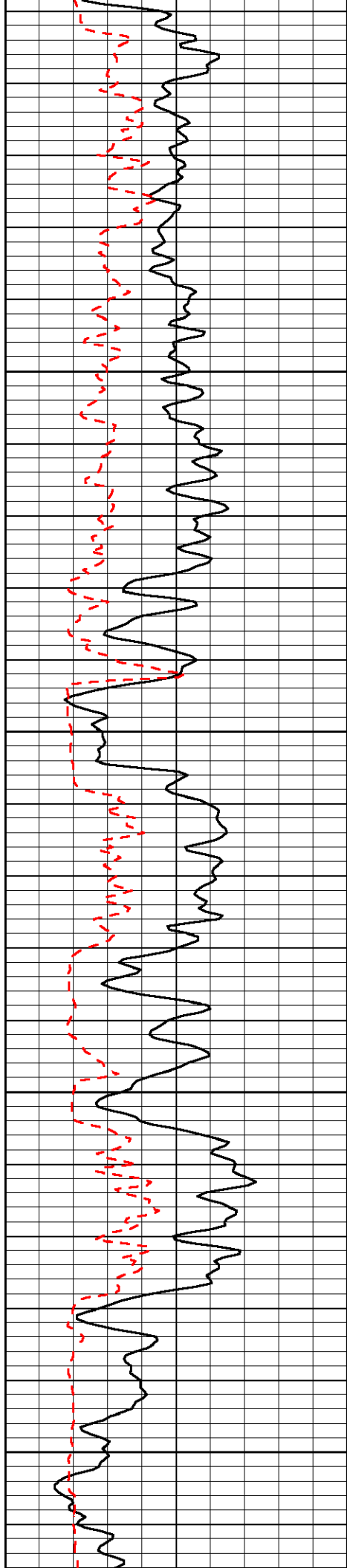


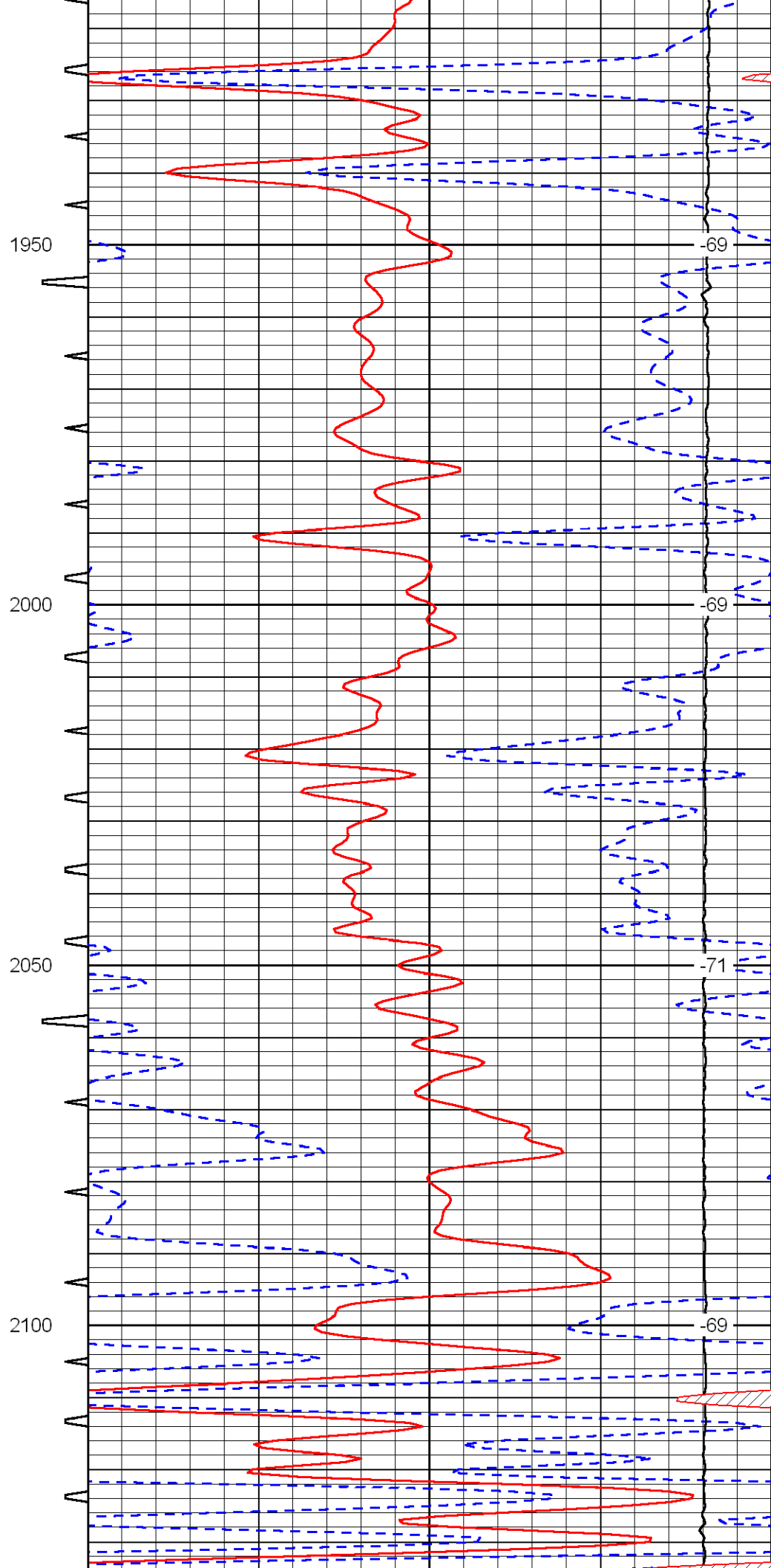
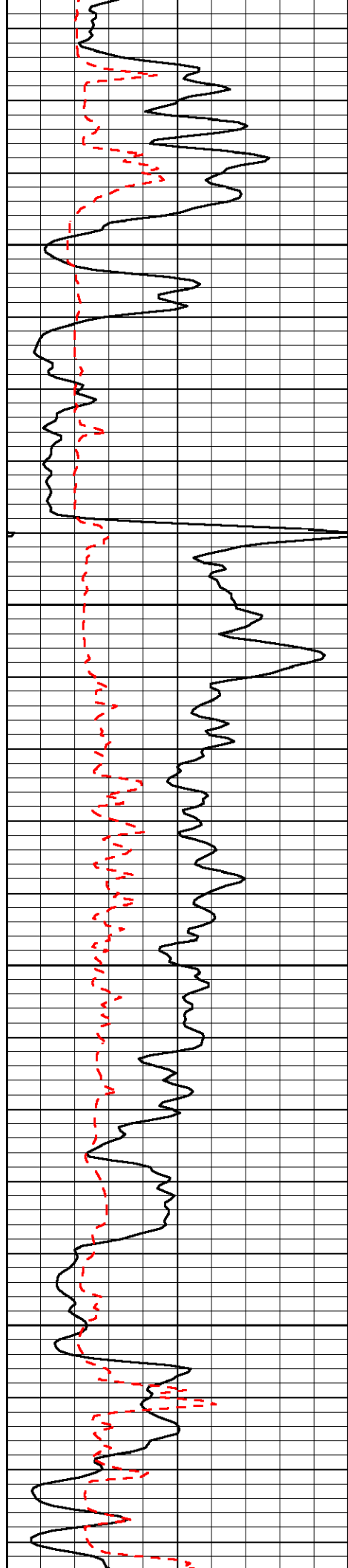


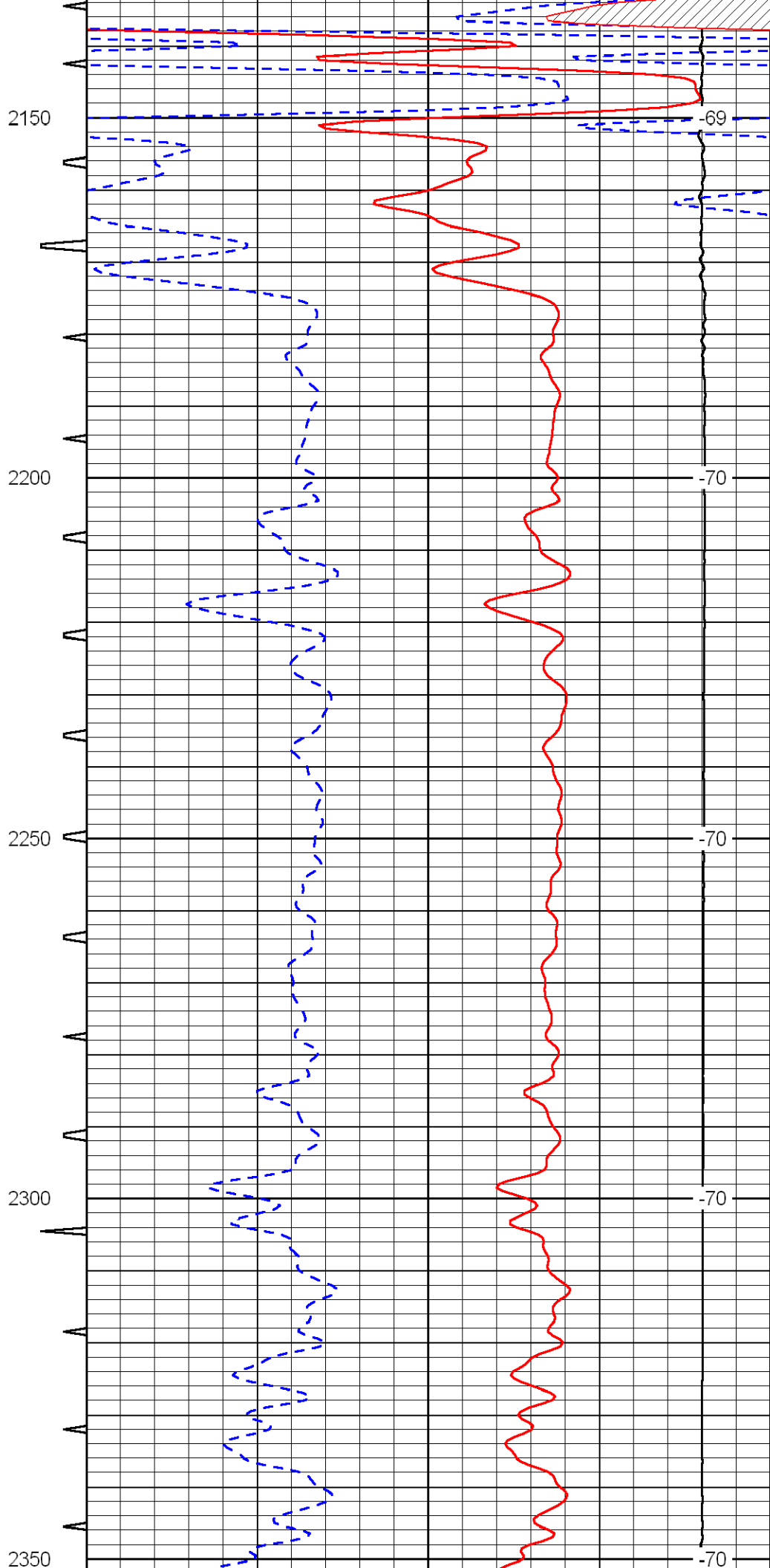
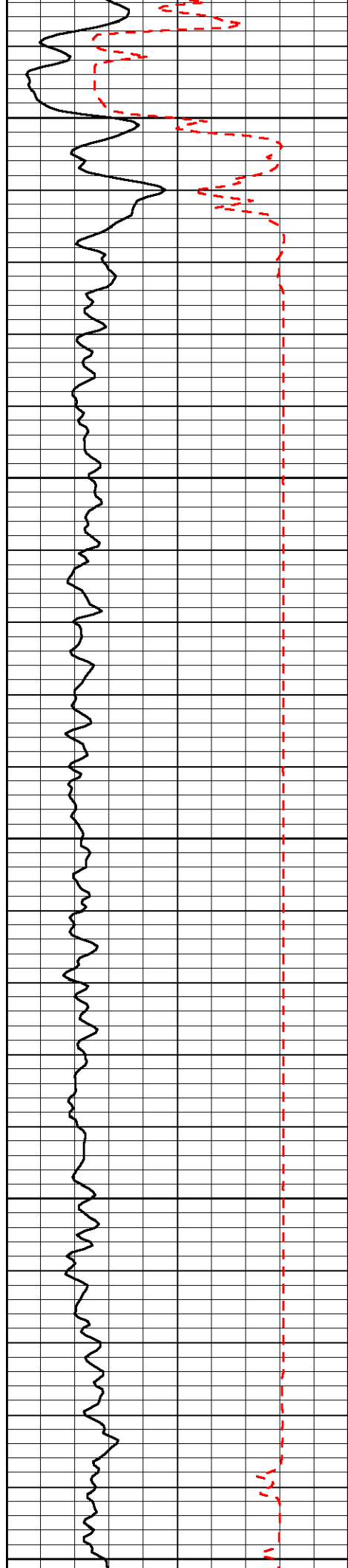


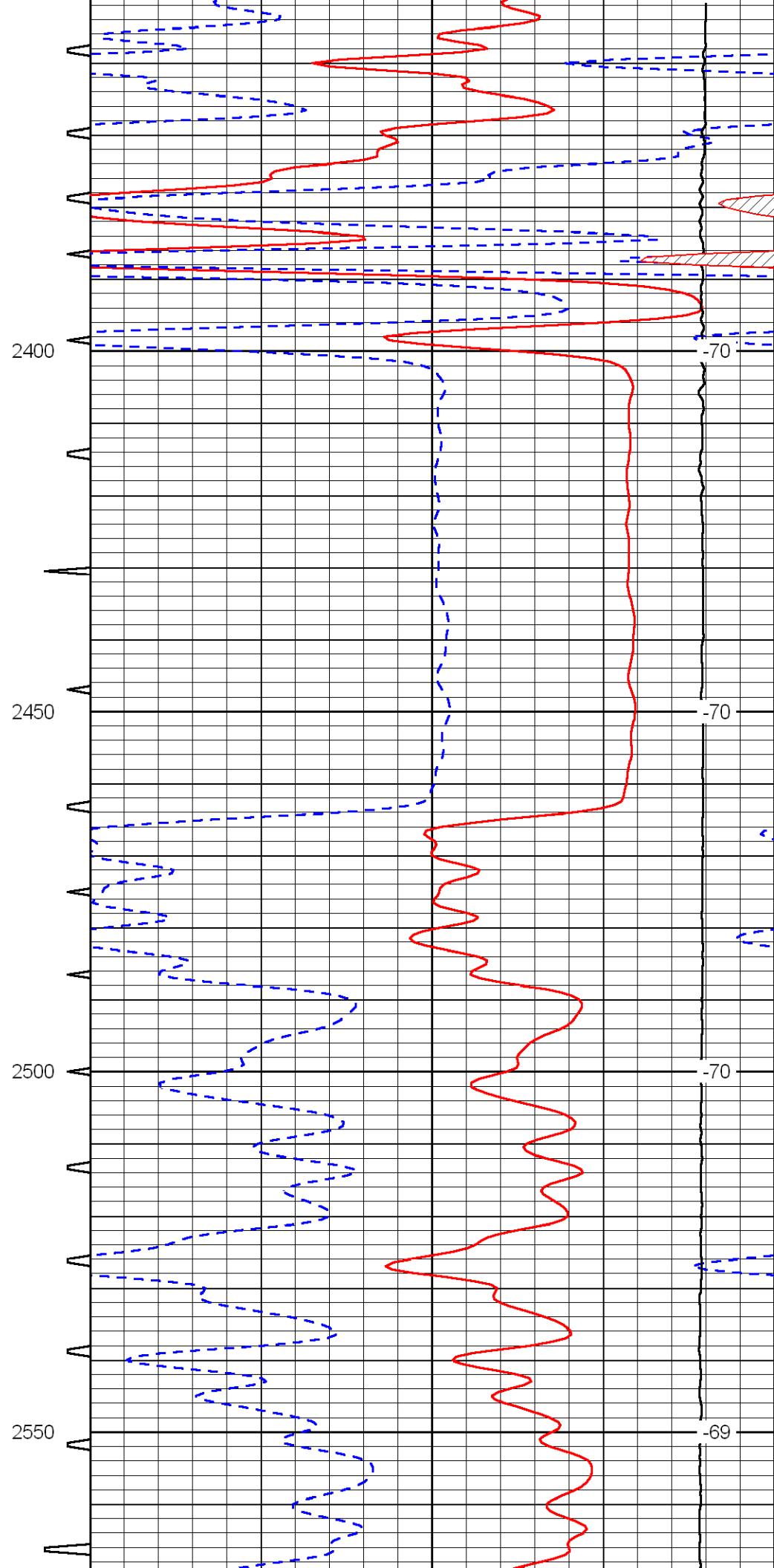
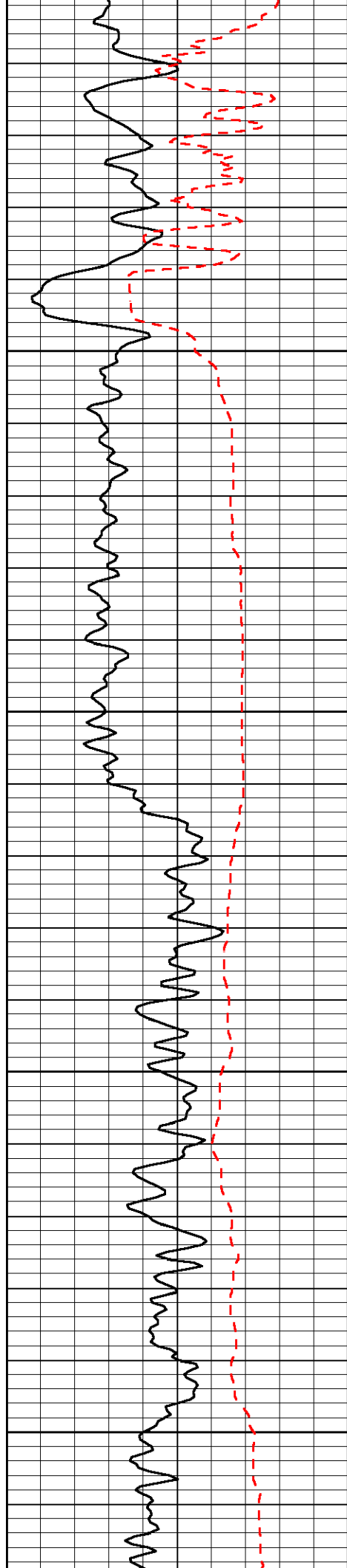


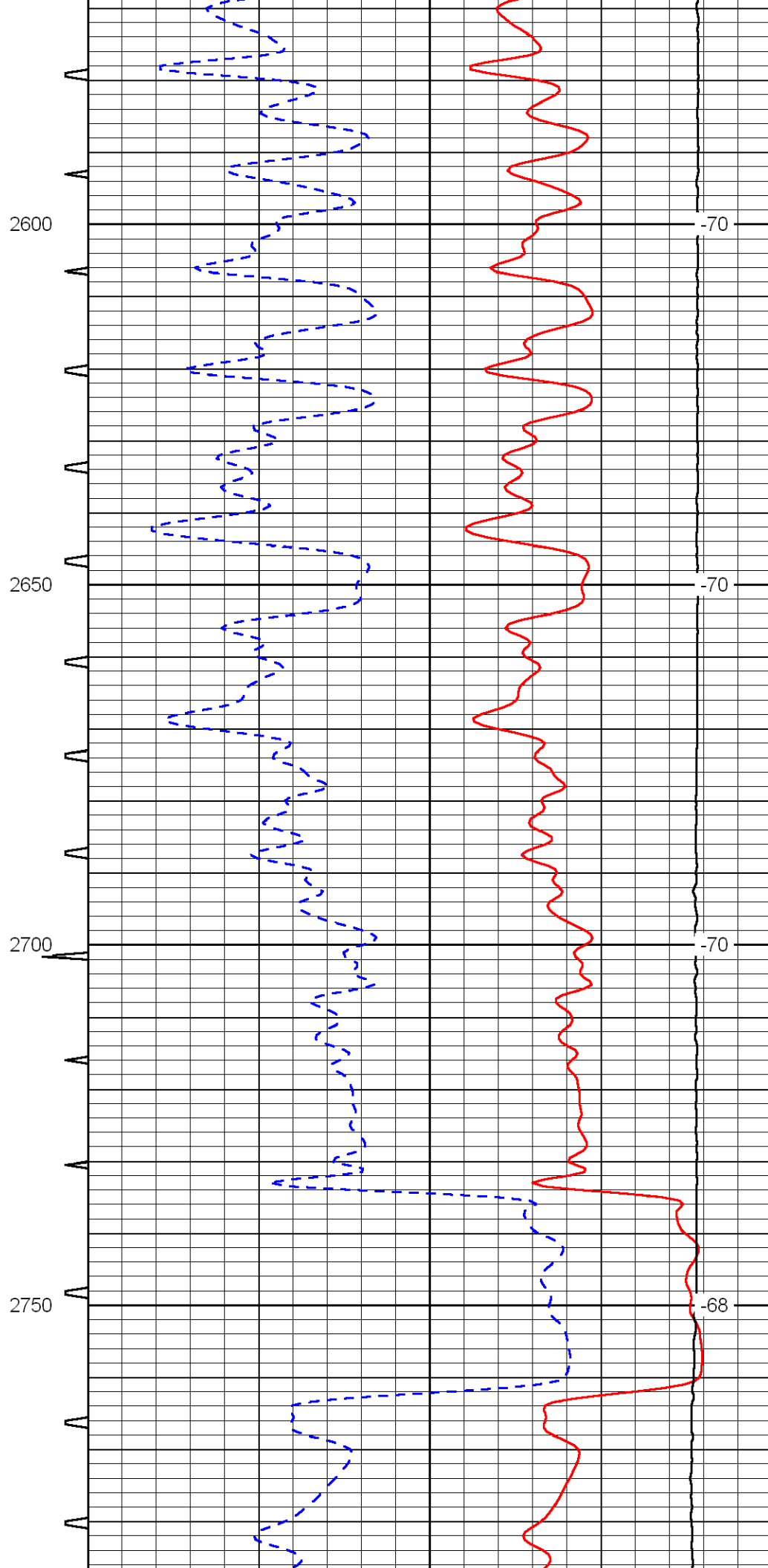
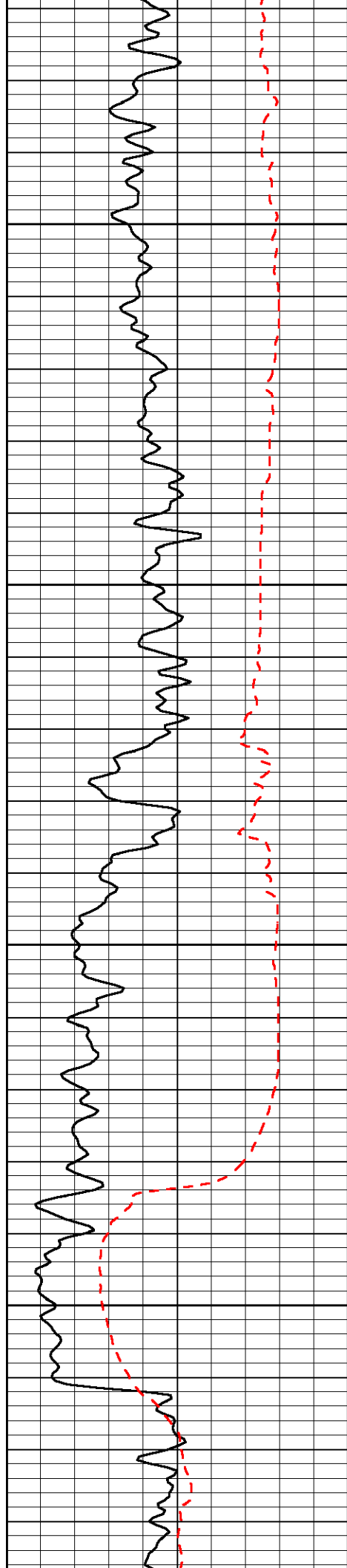


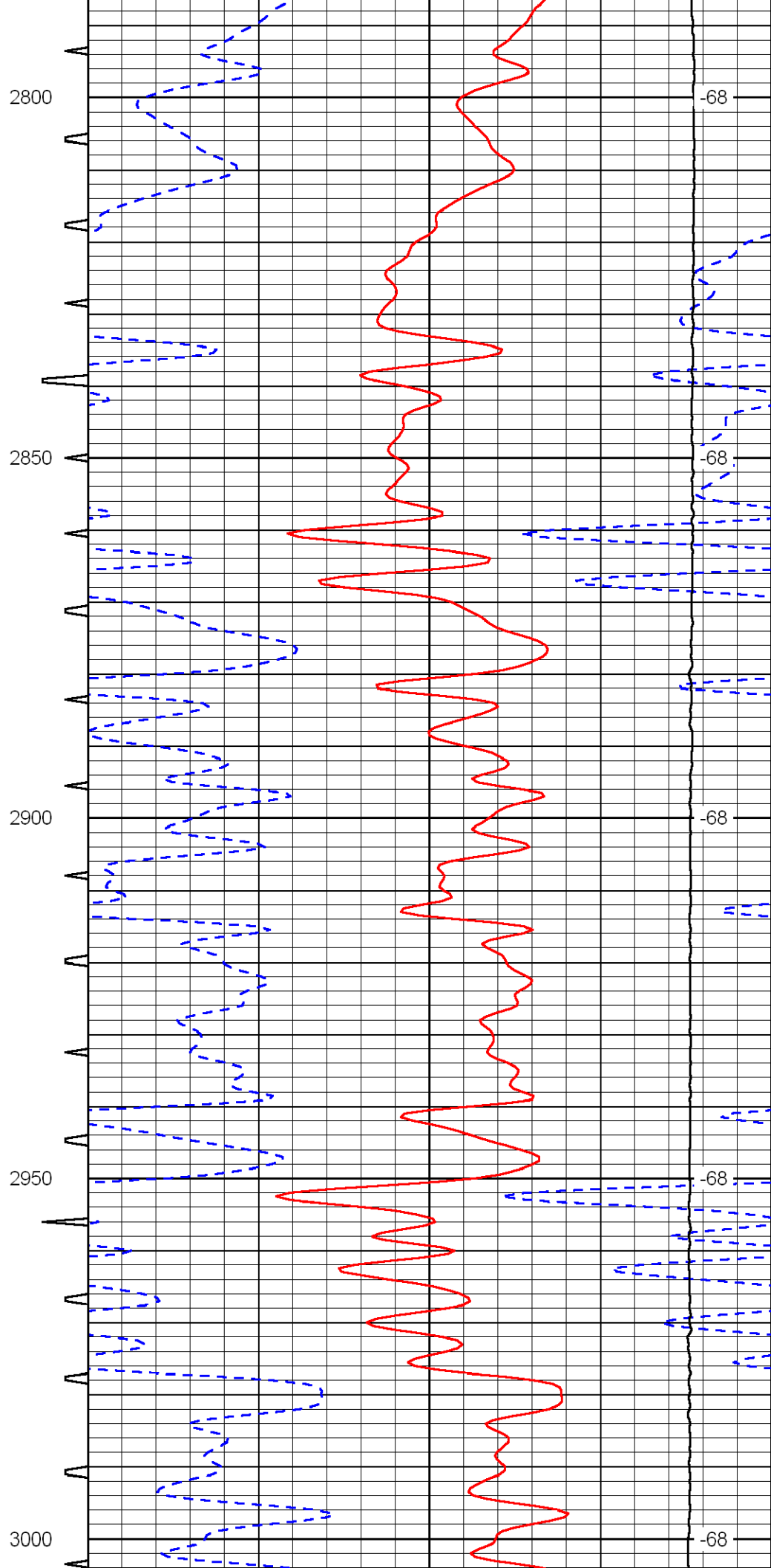
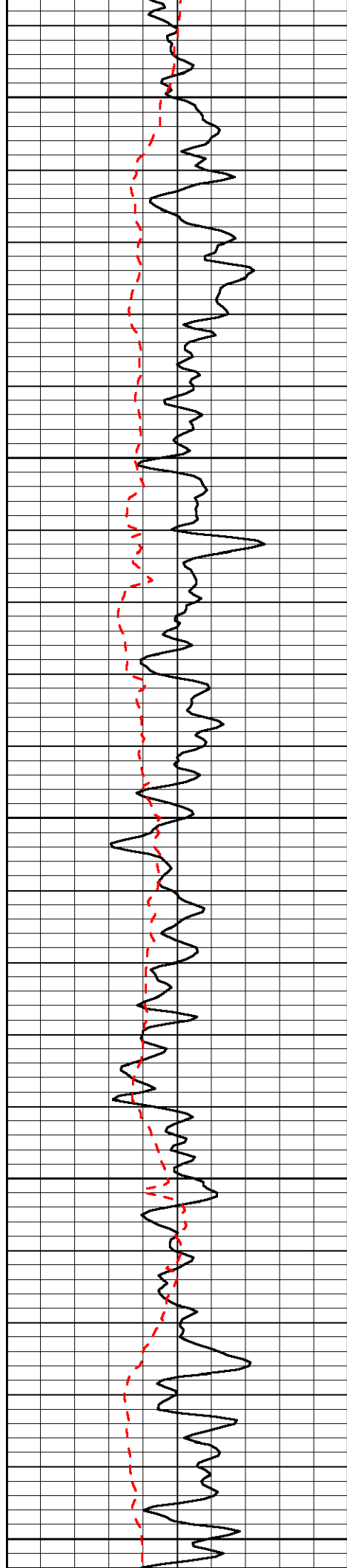


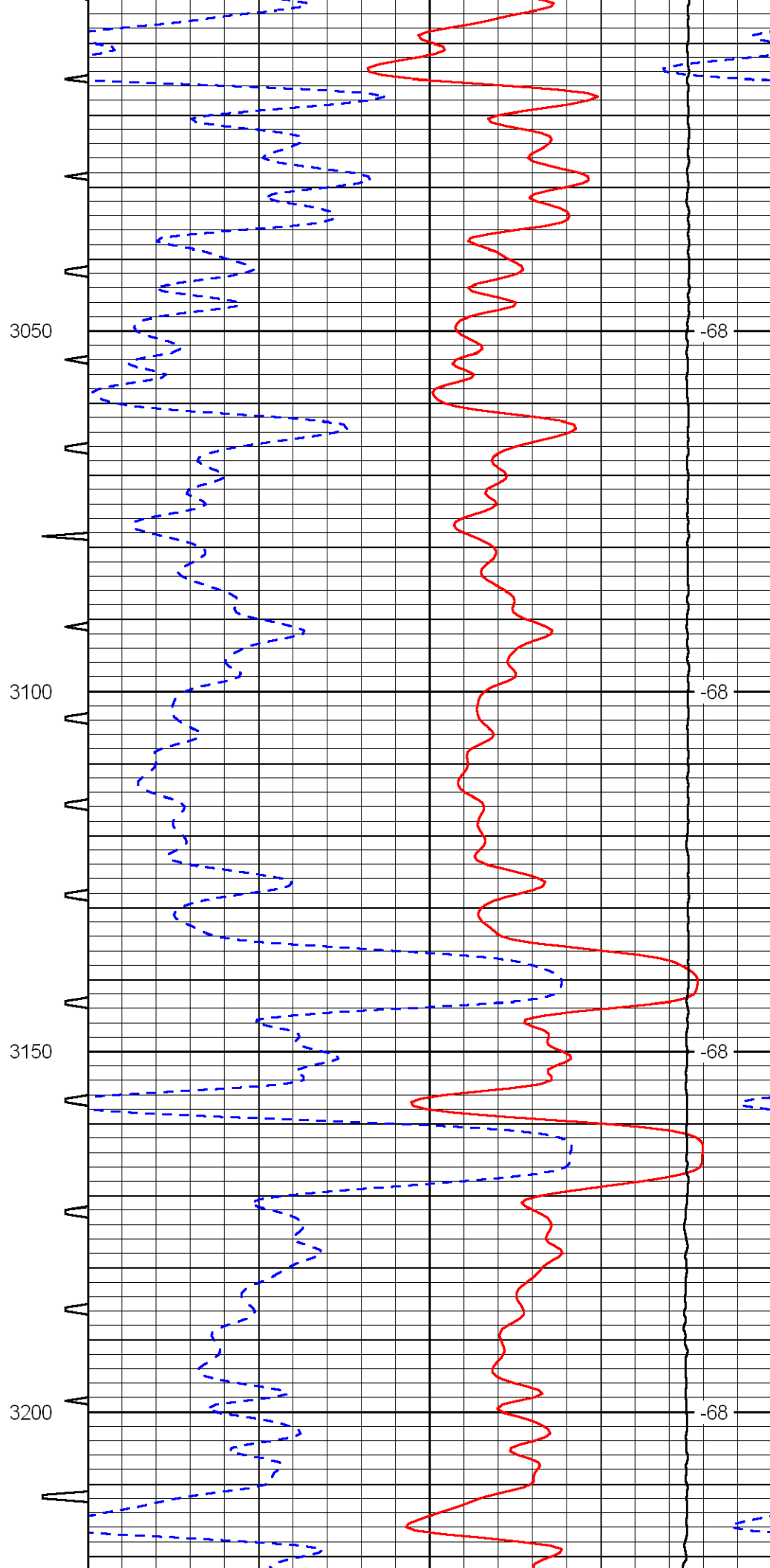
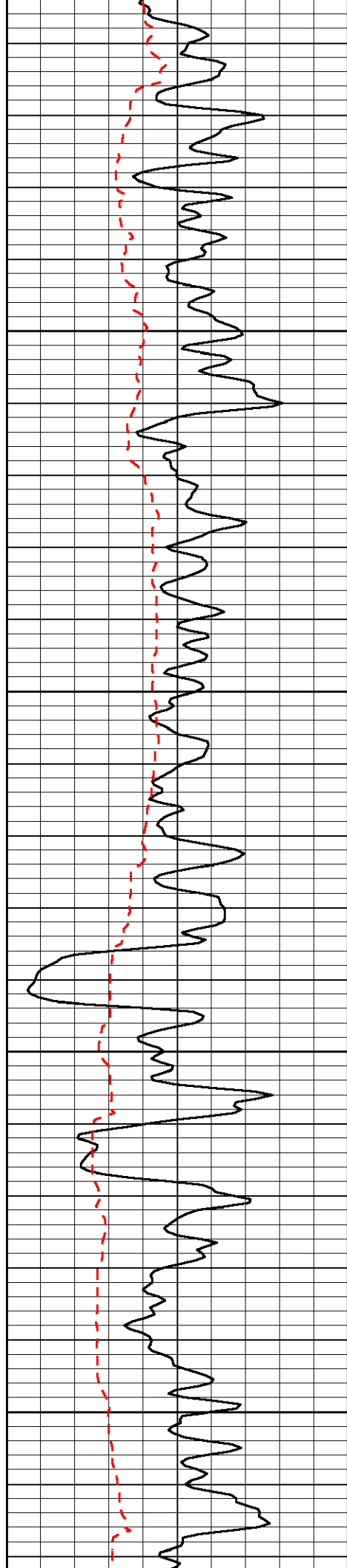


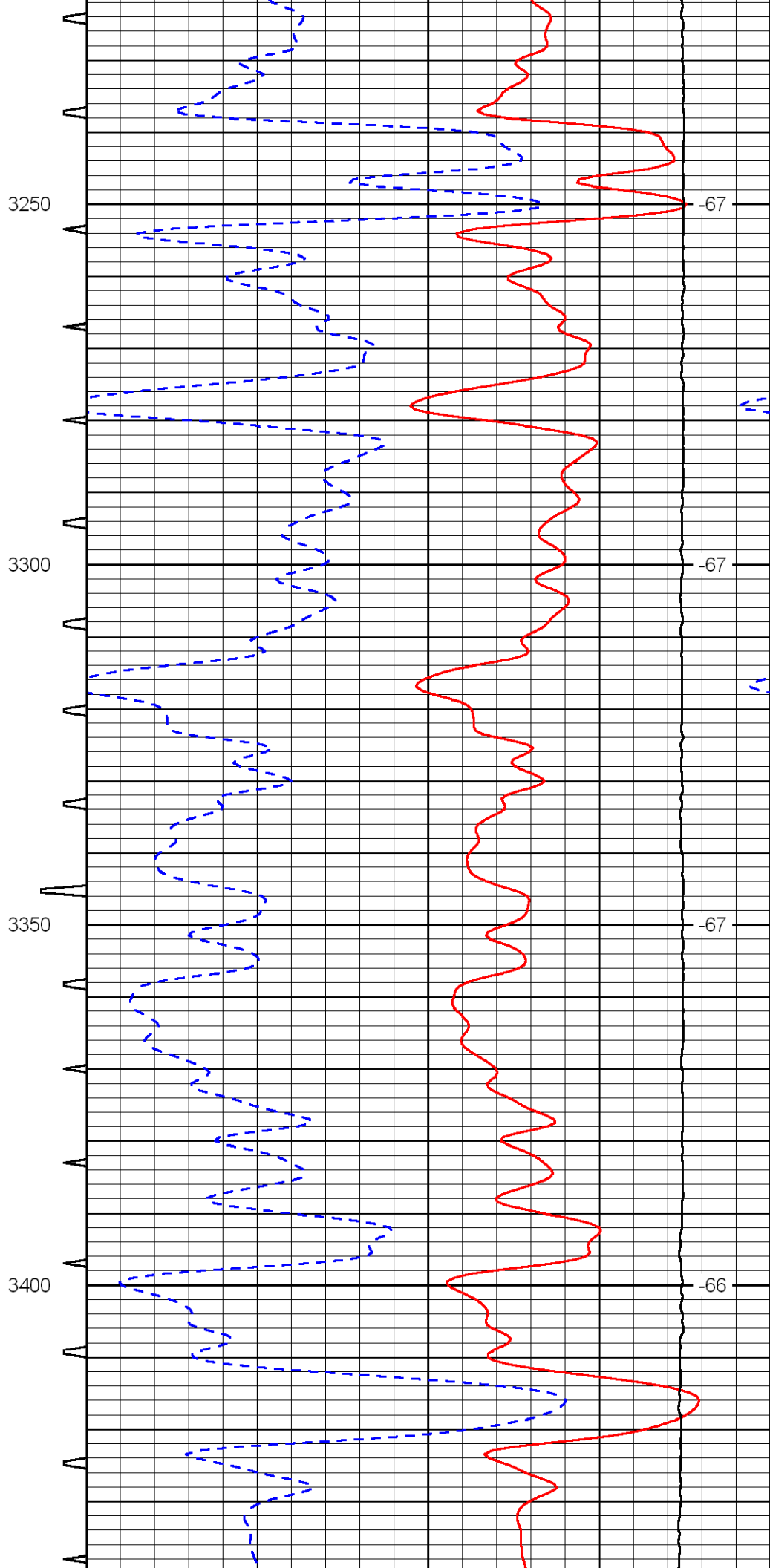
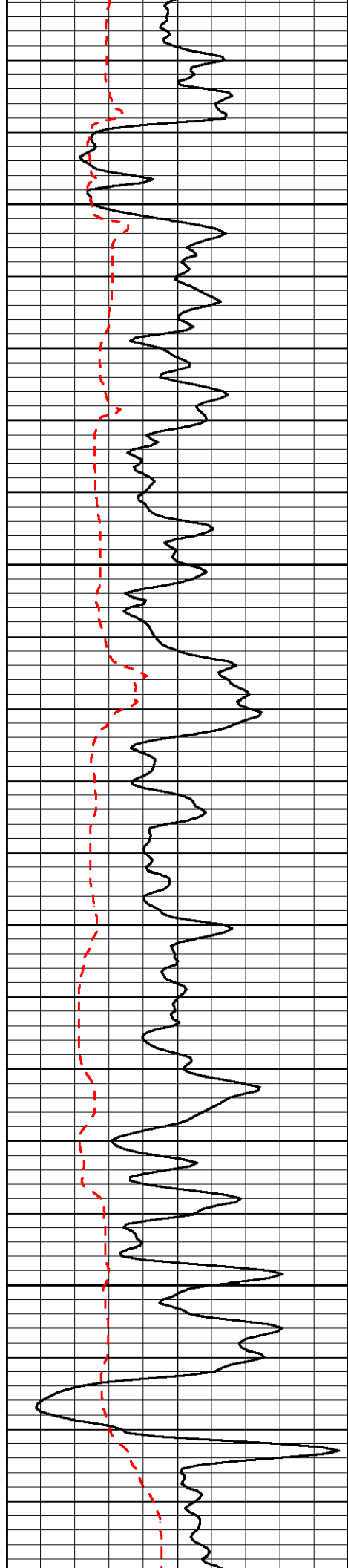


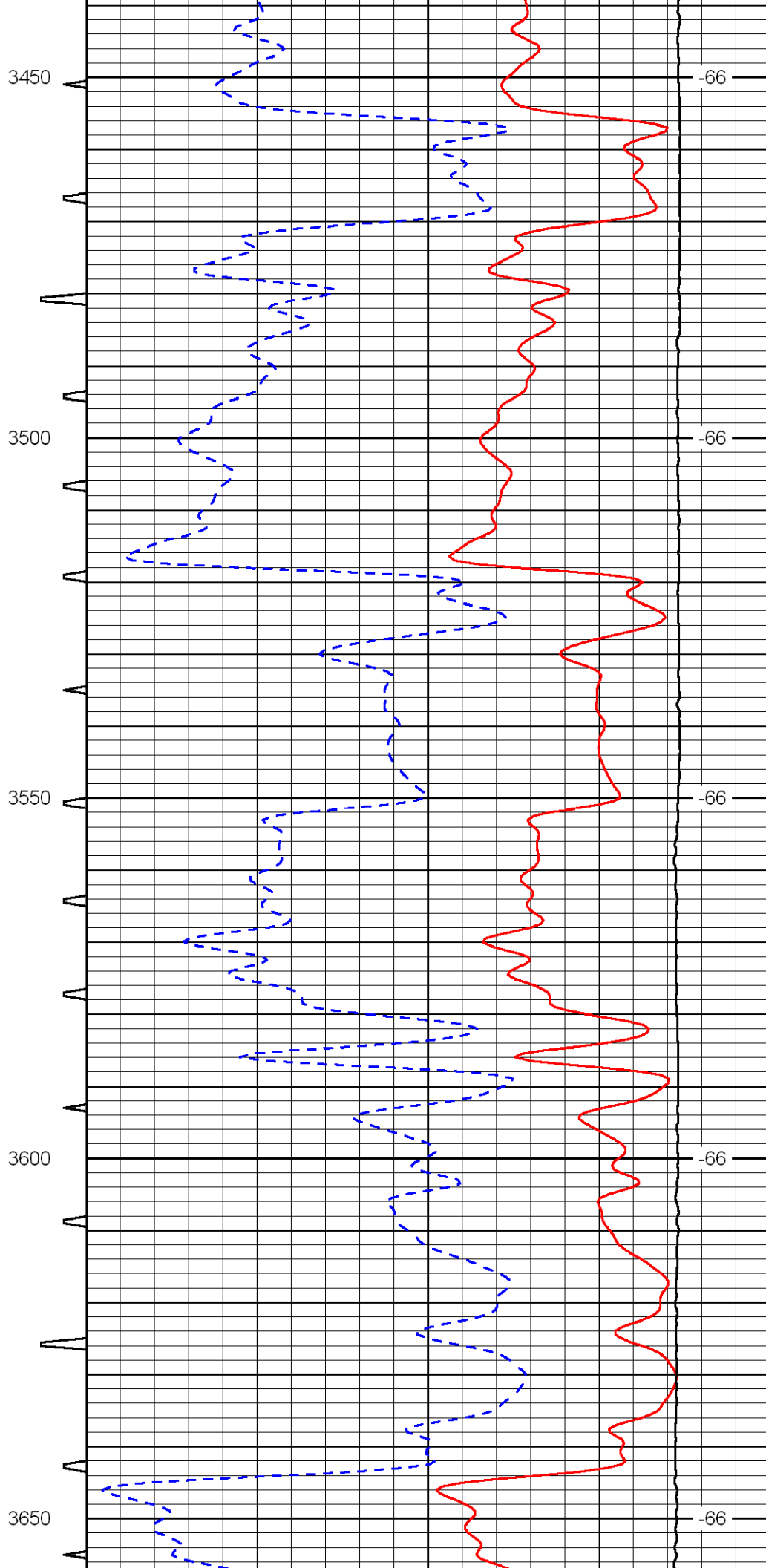
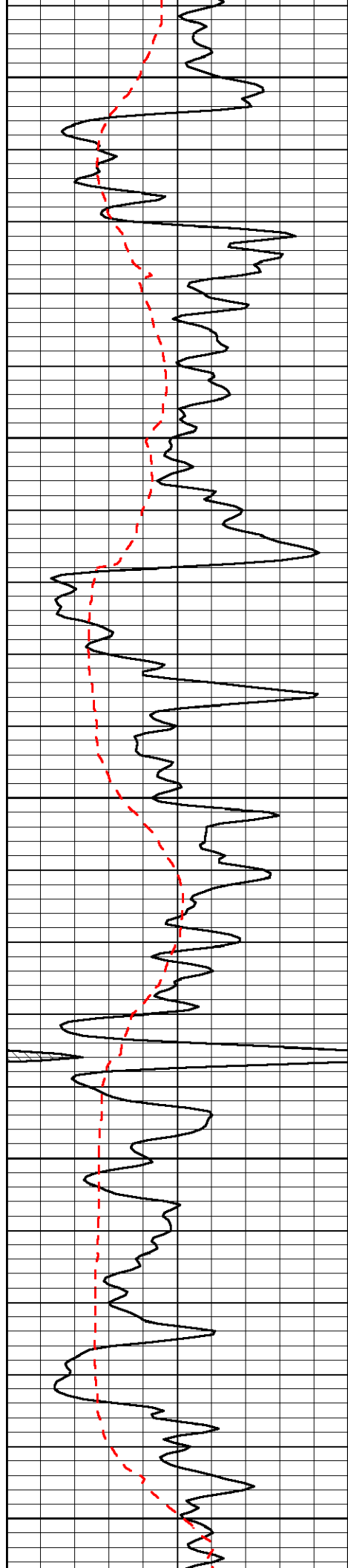


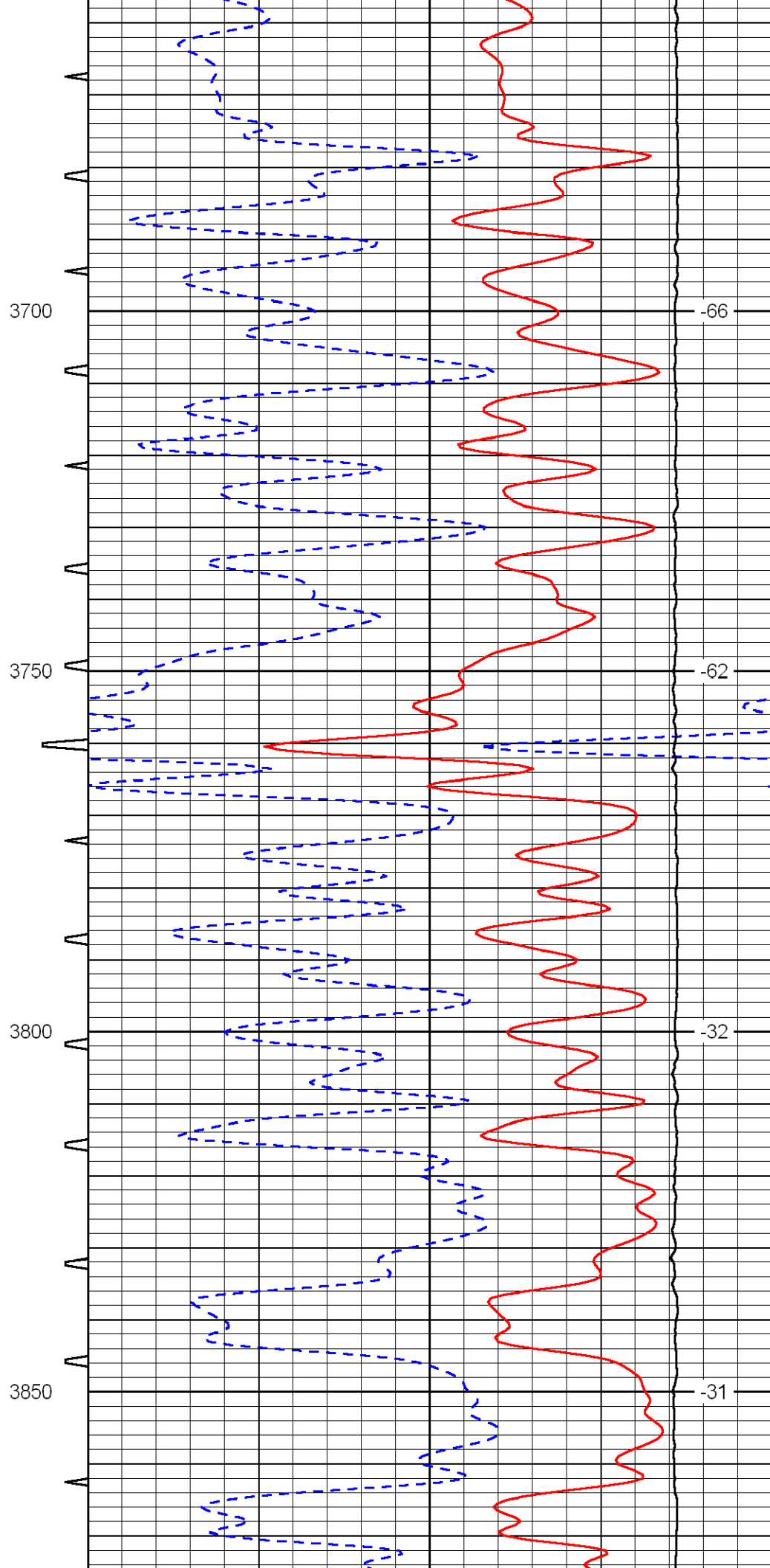
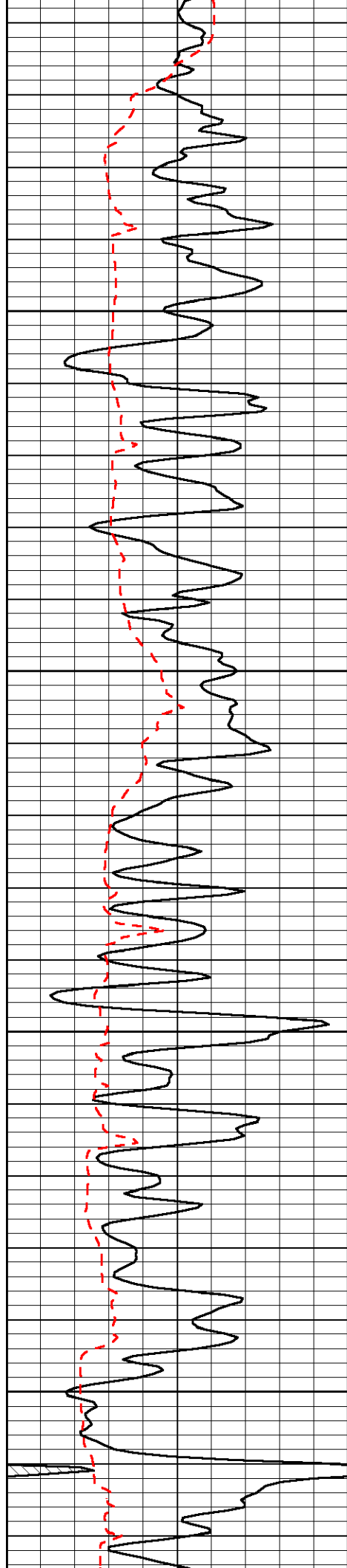


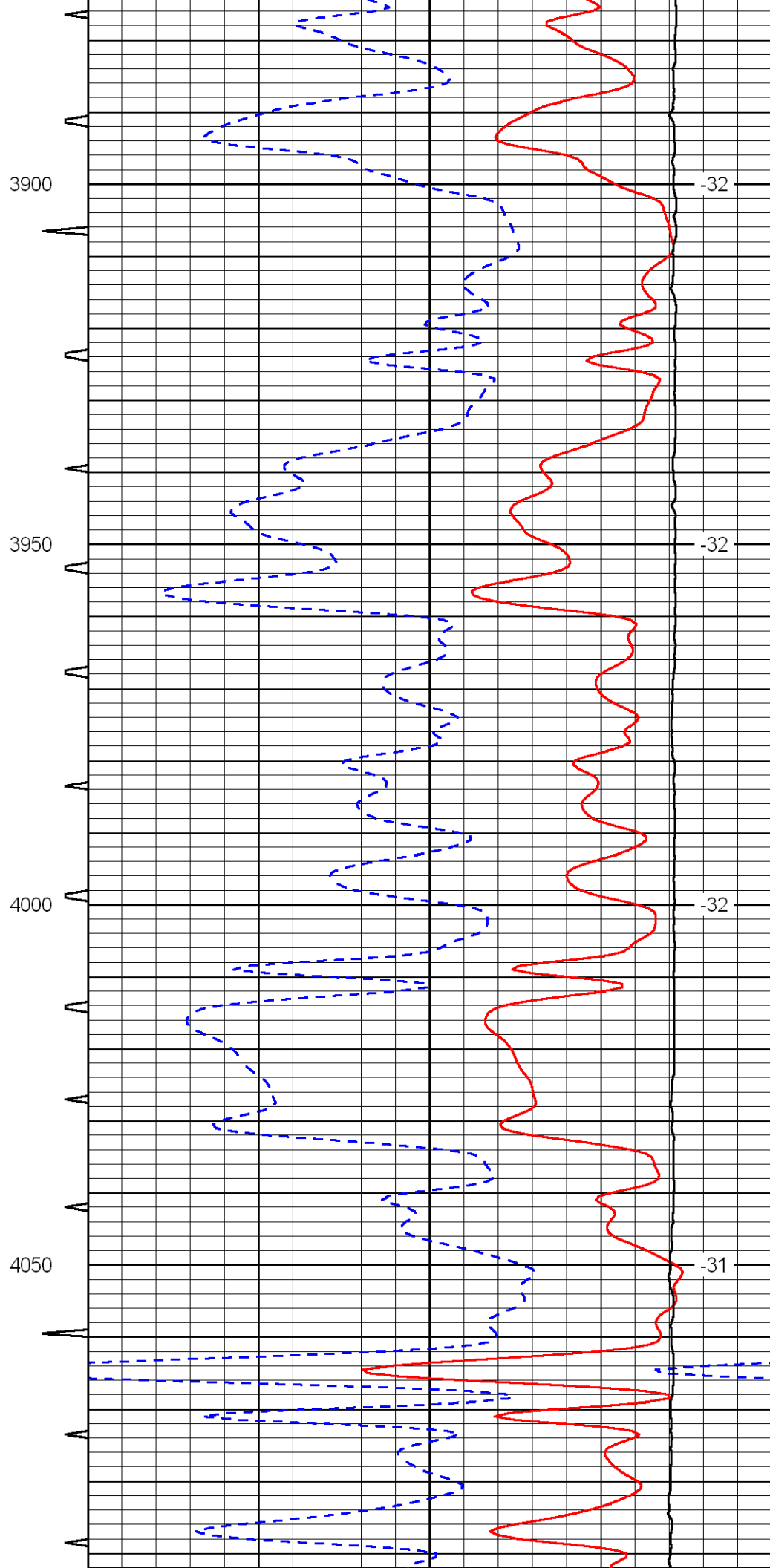
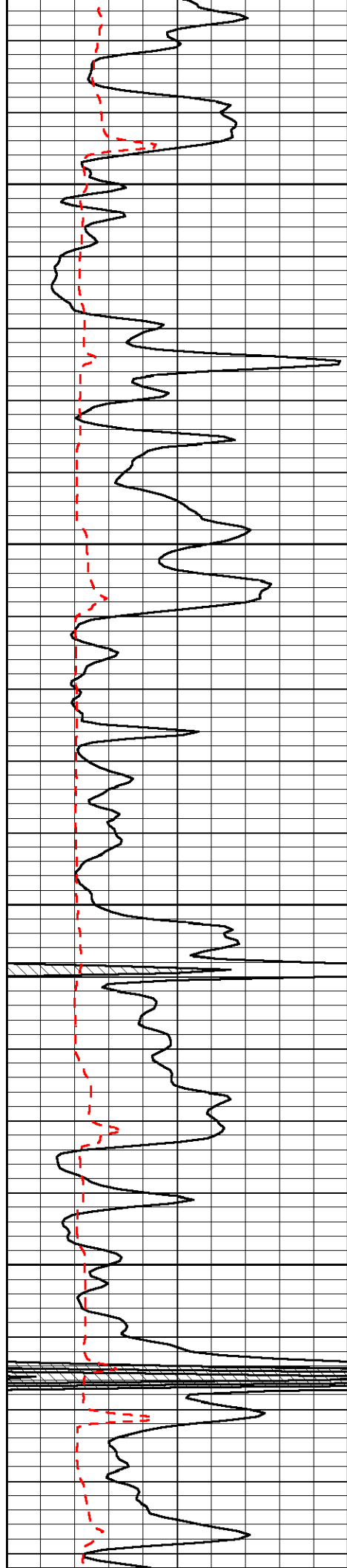


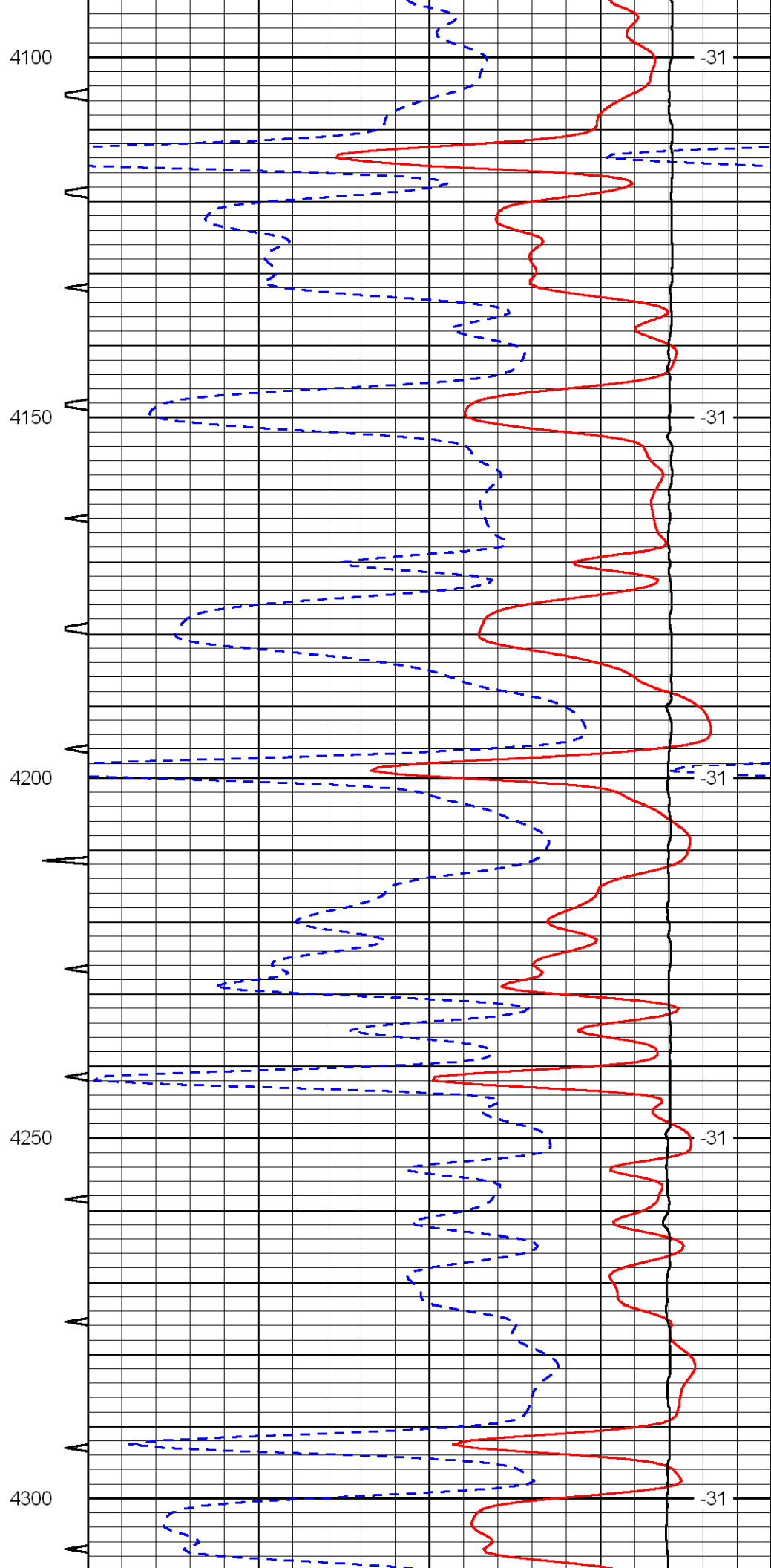
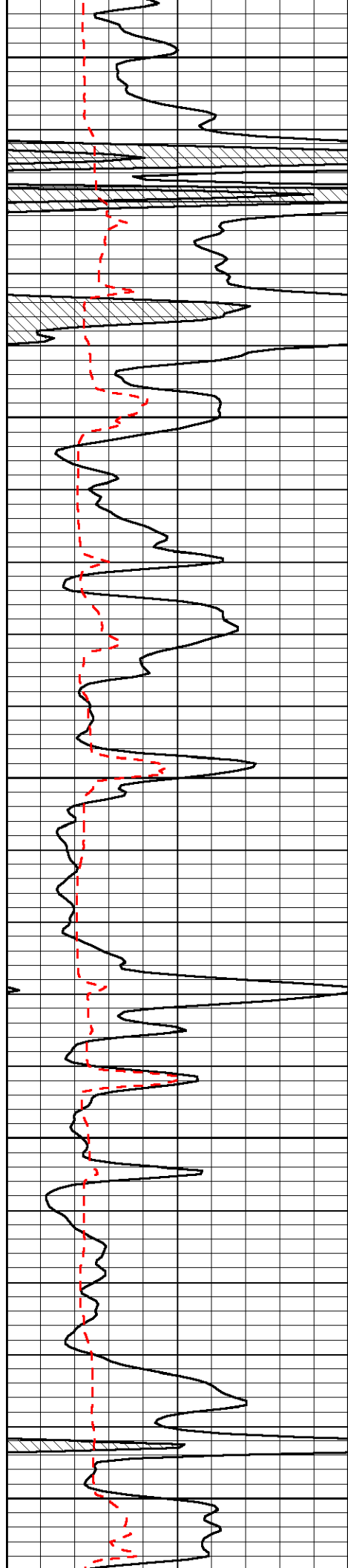


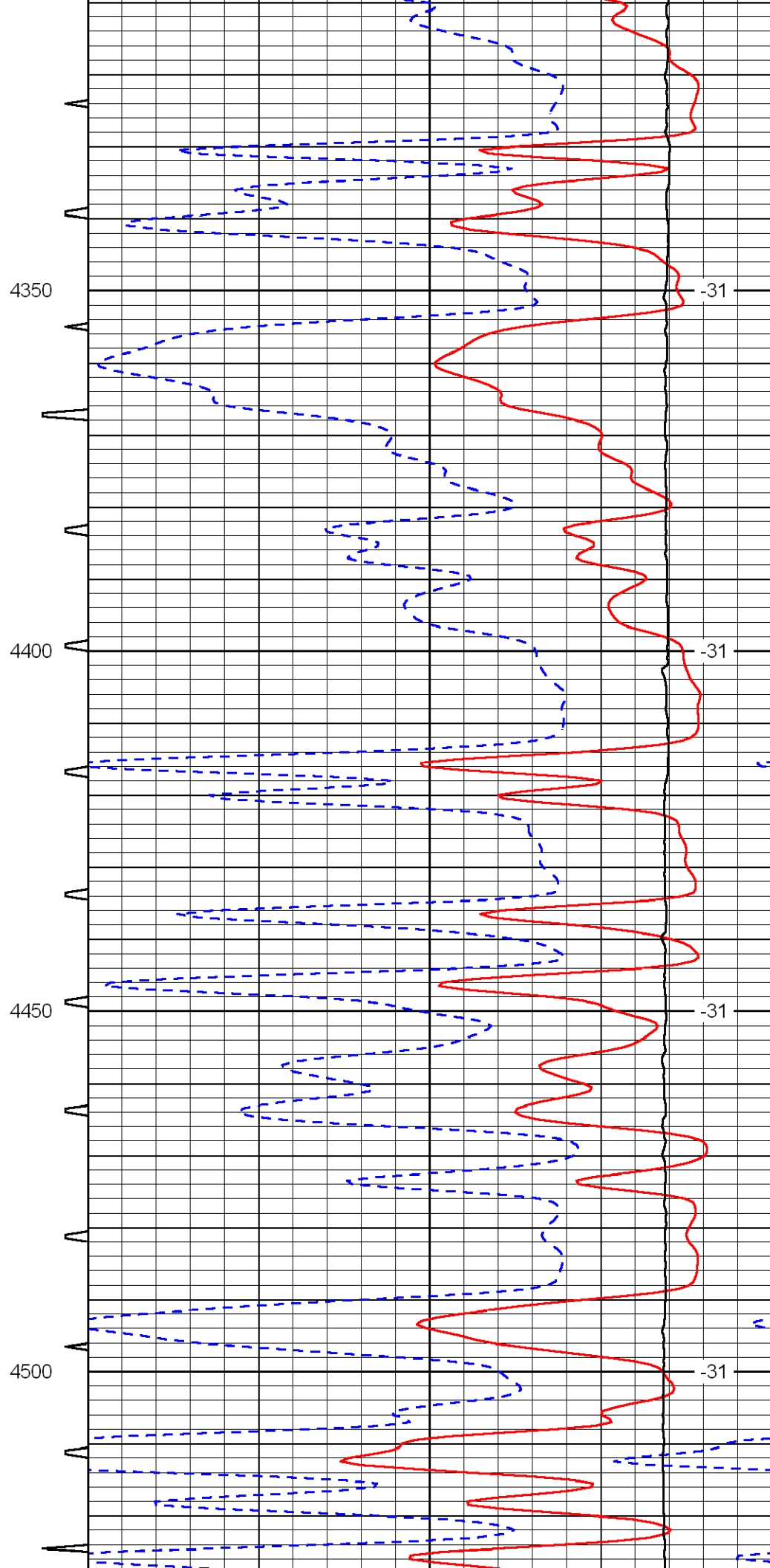
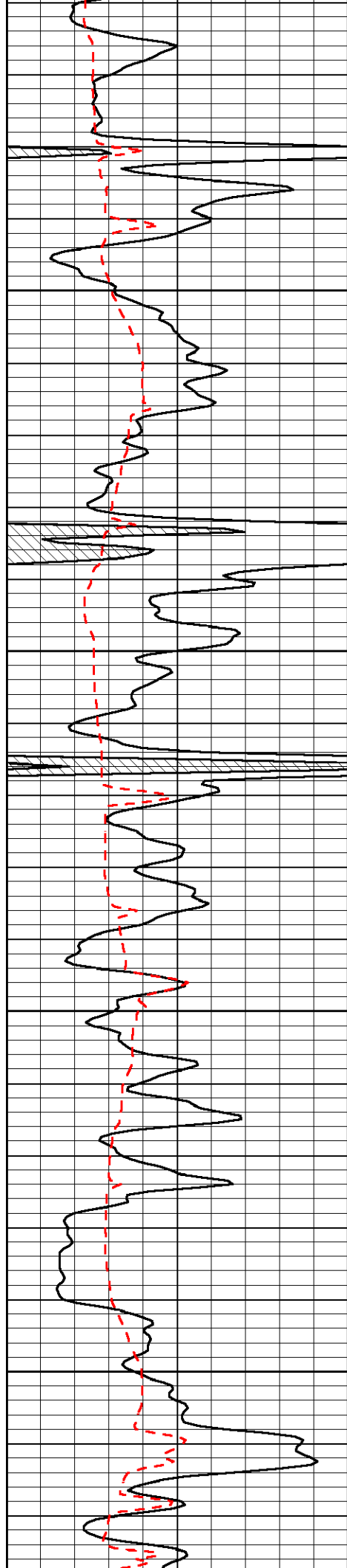


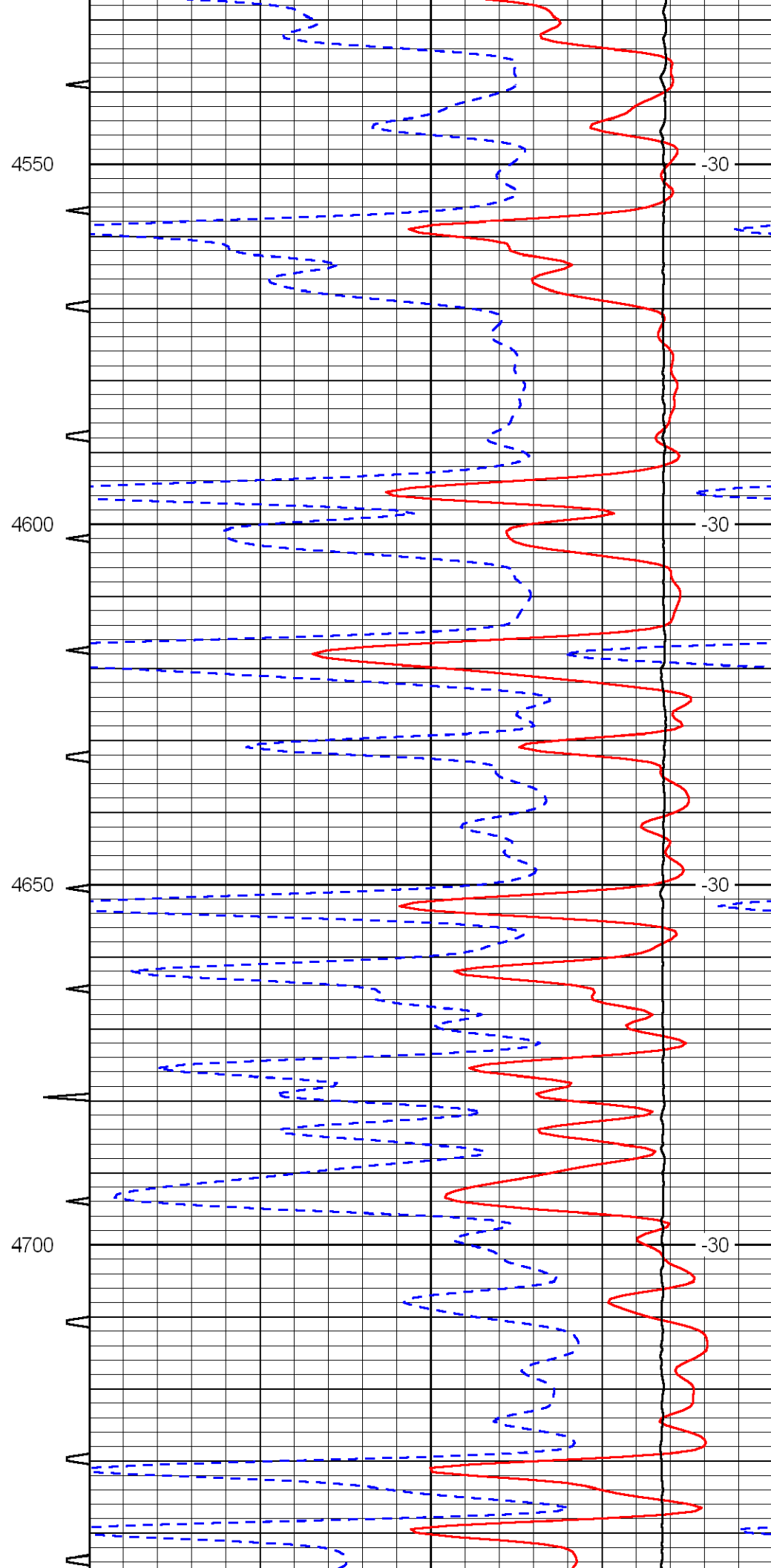
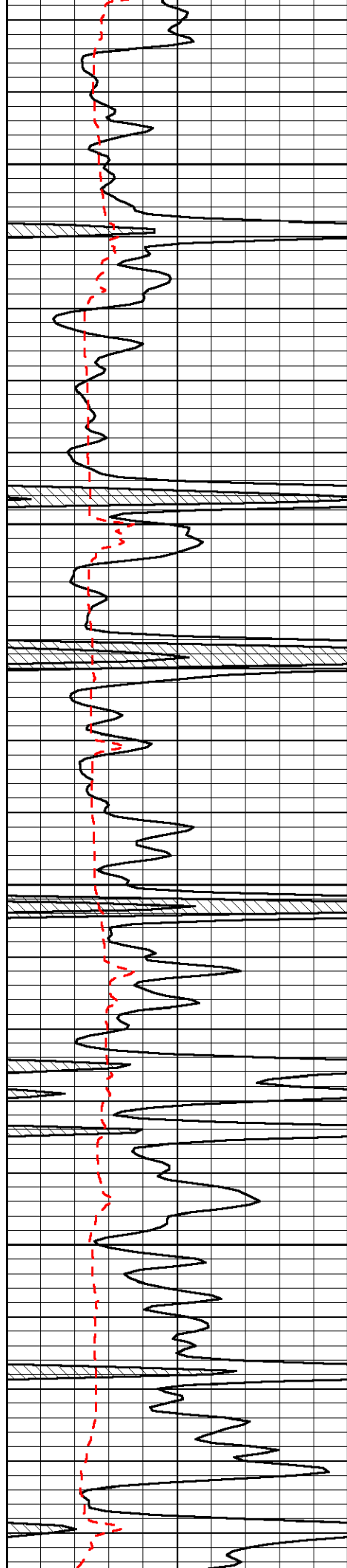


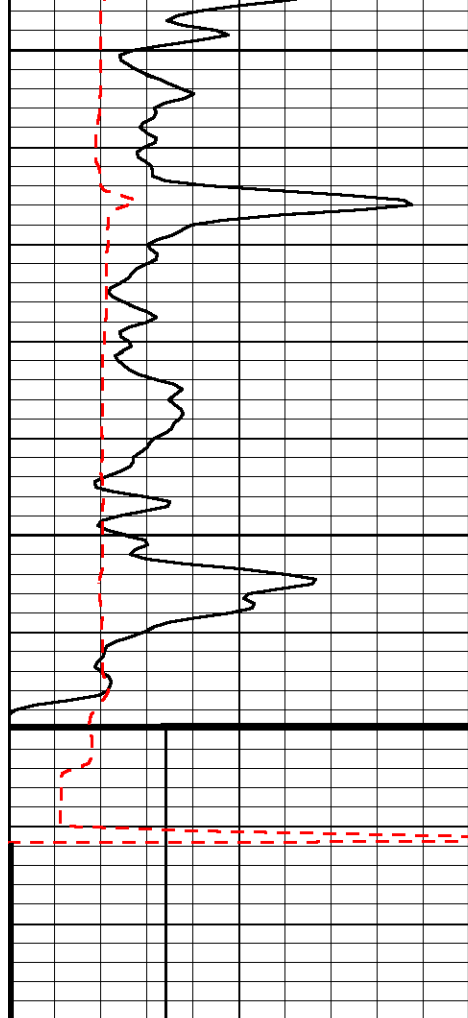












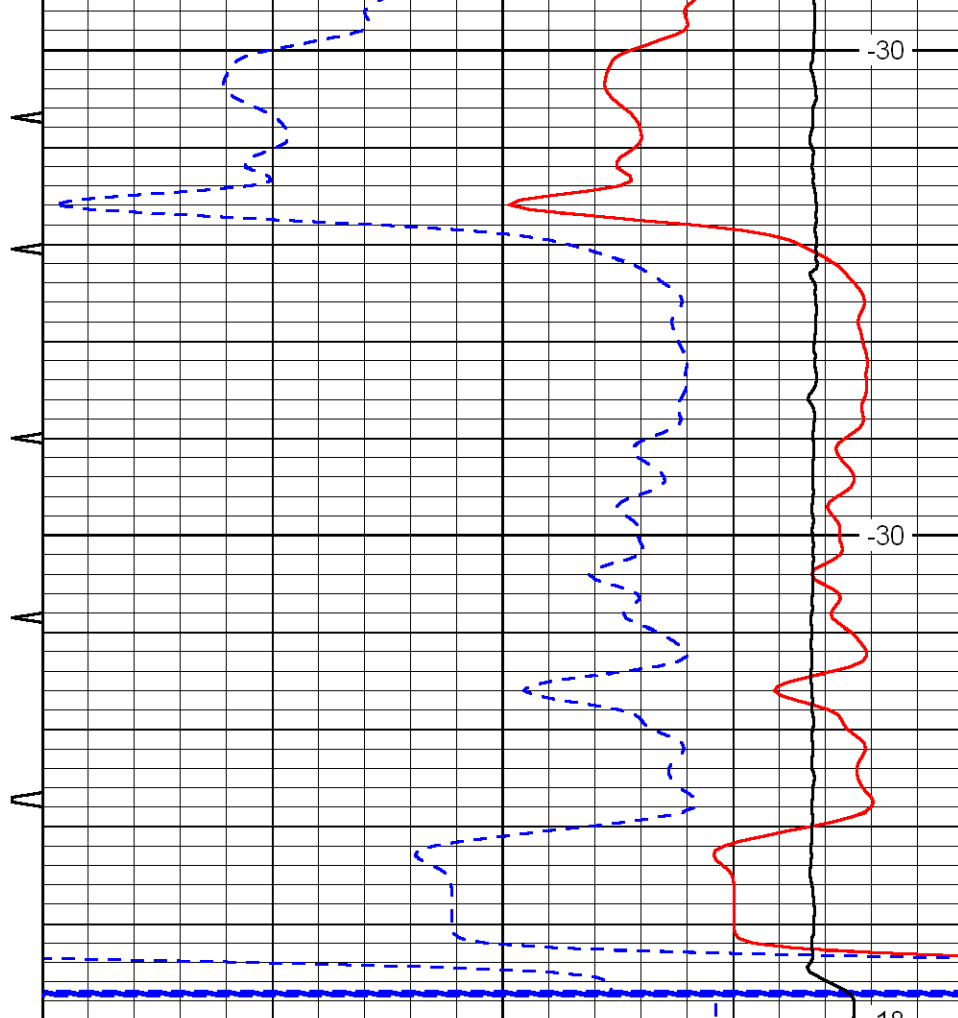
|     |             |     |
|-----|-------------|-----|
| 0   | Gamma Ray   | 150 |
| 150 | Gamma Ray   | 300 |
| 6   | dCAL (GAPI) | 16  |

4750

4800

4850

Sonic Int 140 30 5 0



|                      |     |
|----------------------|-----|
| Delta Time (usec/ft) | 40  |
| Sonic Porosity       | -10 |
| LTEN (lb)            | 0   |

LSPD