



Pioneer Energy Services

Borehole Compensated Sonic Log

15-111-20,467-00-00

API No.

Company **Quail Oil & Gas, LC**

Well **Ross No.1-7**

Field **Lyon**

County **Lyon** State **Kansas**

Location **2295' FSL & 1980' FEL**

Sec: **7** Twp: **18 S** Rge: **10 E**

Permanent Datum **Ground Level** Elevation **1294.5**

Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Other Services
DIL
CNL/CDL

Elevation

K.B. 1303.5

D.F. 1294.5

Date **11/30/2012**

Run Number **Two**

Type Log **BHC Sonic**

Depth Driller **2522**

Depth Logger **2518**

Bottom Logged Interval **2507**

Top Logged Interval **100**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **1200**

Density **9.1**

Level **Full**

Max. Rec. Temp. F **101**

Operating Rig Time **3 1/2 Hours**

Equipment -- Location **15 Hays**

Recorded By **D Kerr**

Witnessed By **Dave Barker**

Borehole Record

| Run No. | Bit | From | To | Size | Wgt. | From | To |
|---------|-------|------|------|-------|------|------|-----|
| 1 | 12.25 | 00 | 140 | 8.625 | 24# | 00 | 140 |
| 2 | 7.875 | 140 | 2522 | | | | |

Casing Record

| Run No. | Bit | From | To | Size | Wgt. | From | To |
|---------|-------|------|------|-------|------|------|-----|
| 1 | 12.25 | 00 | 140 | 8.625 | 24# | 00 | 140 |
| 2 | 7.875 | 140 | 2522 | | | | |

<<< Fold Here >>>

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.

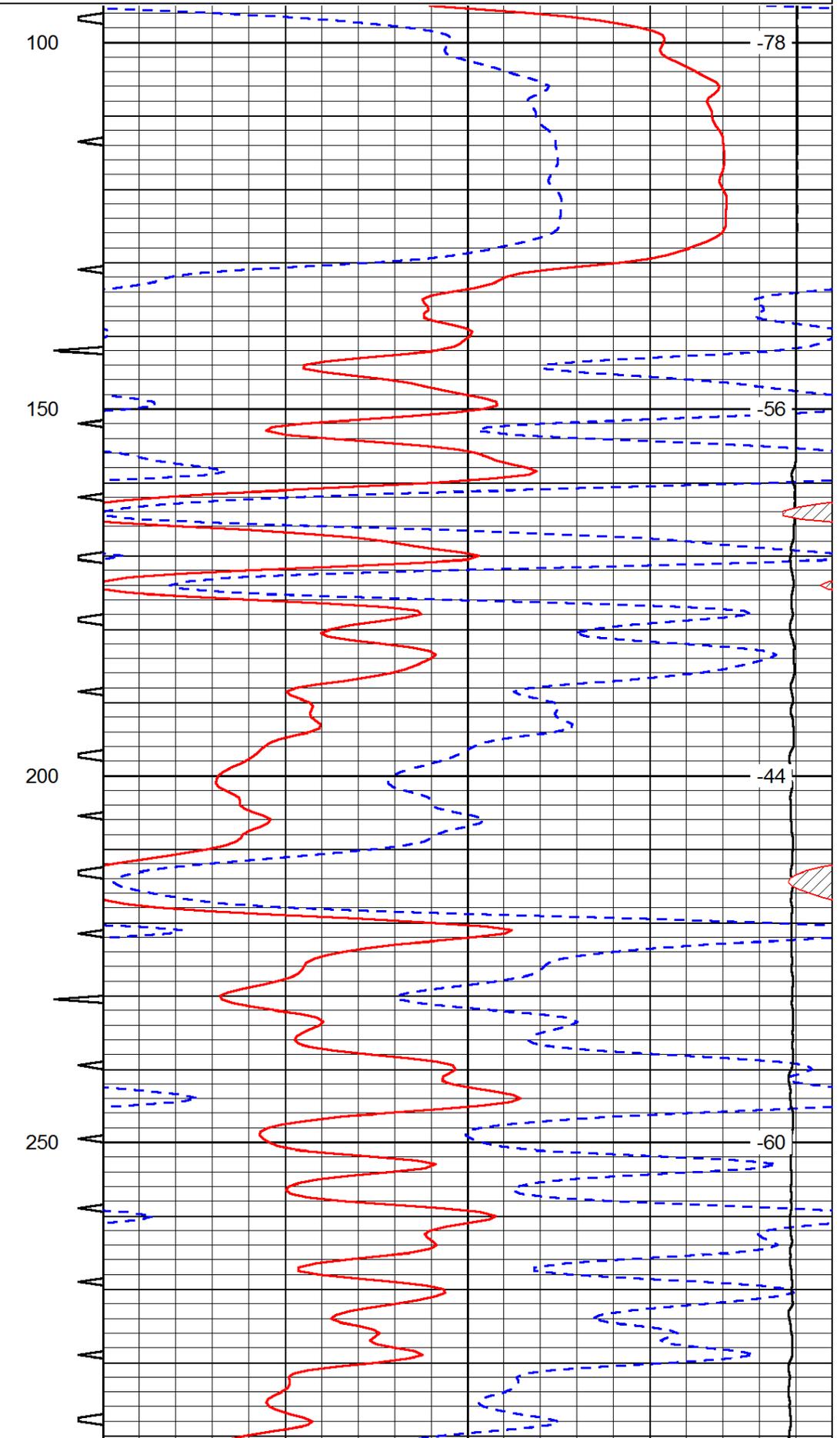
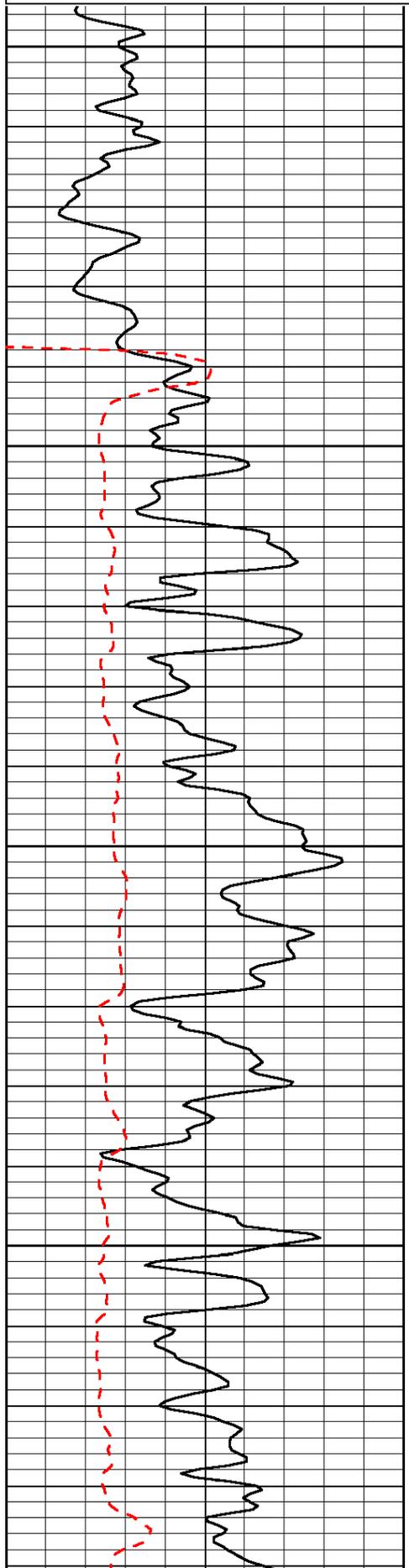
Comments

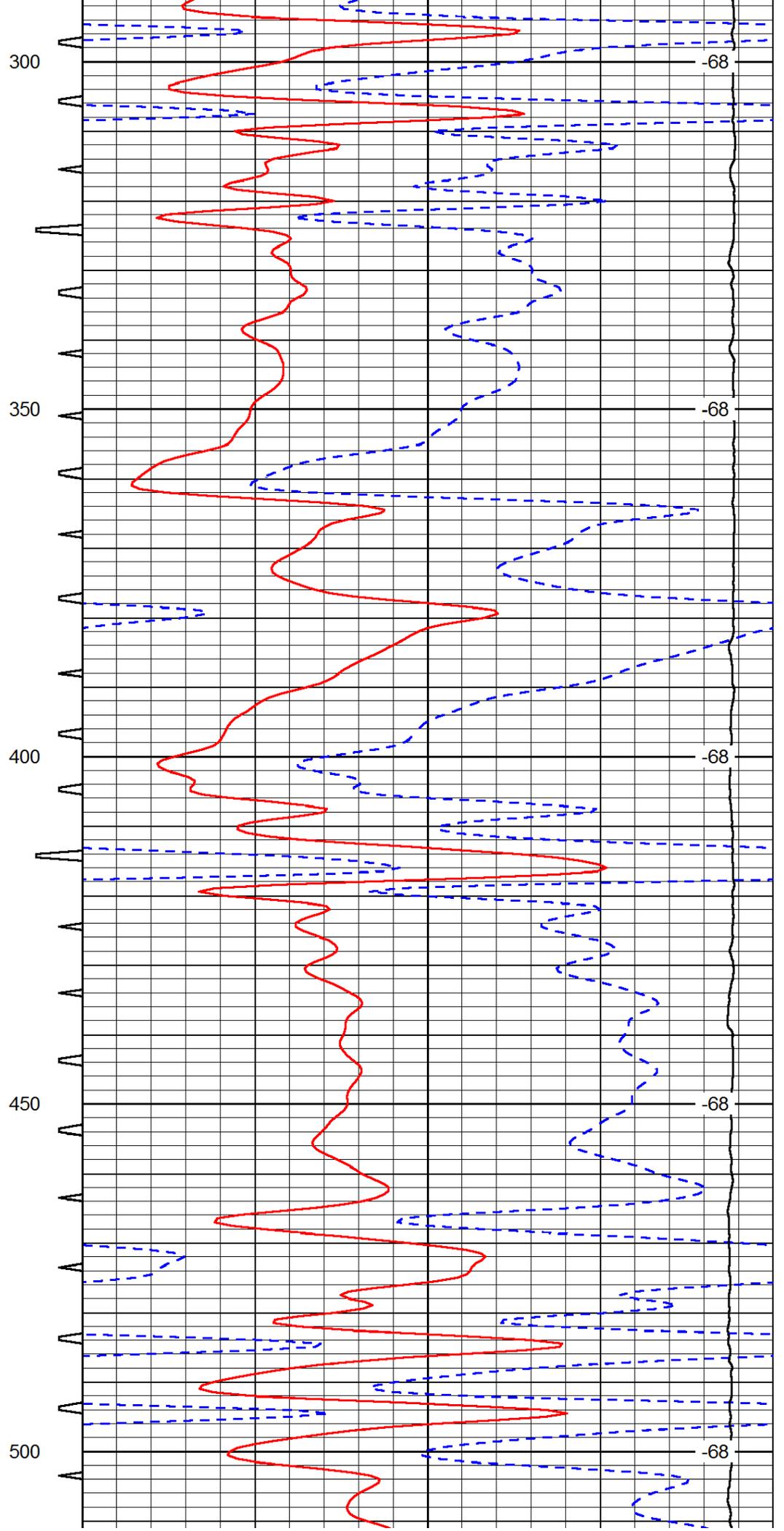
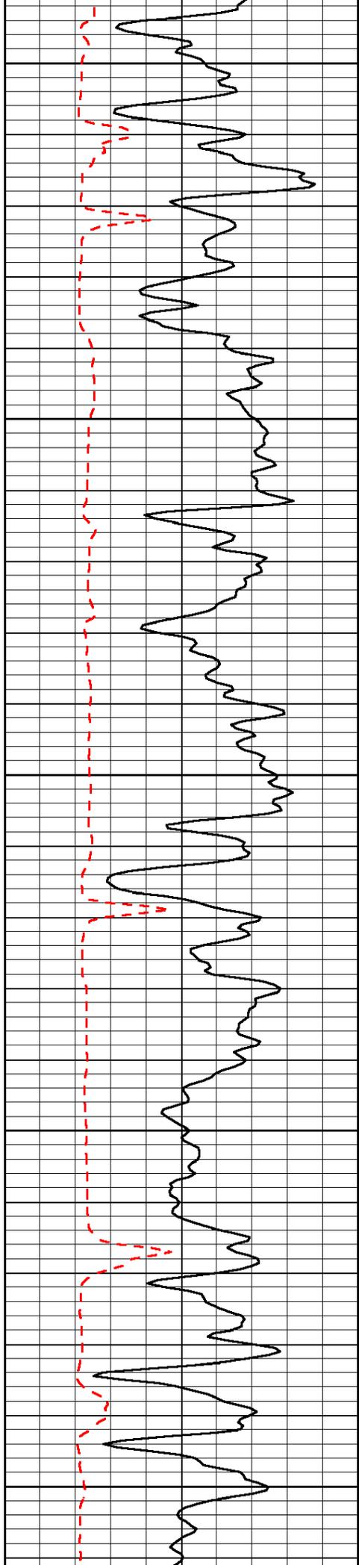
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858
 Americrus KS, West at Stop Sign(Blinking Light)
 3 To C RD, 1 South to 230th Rd, 1 1/4 West,
 North Into

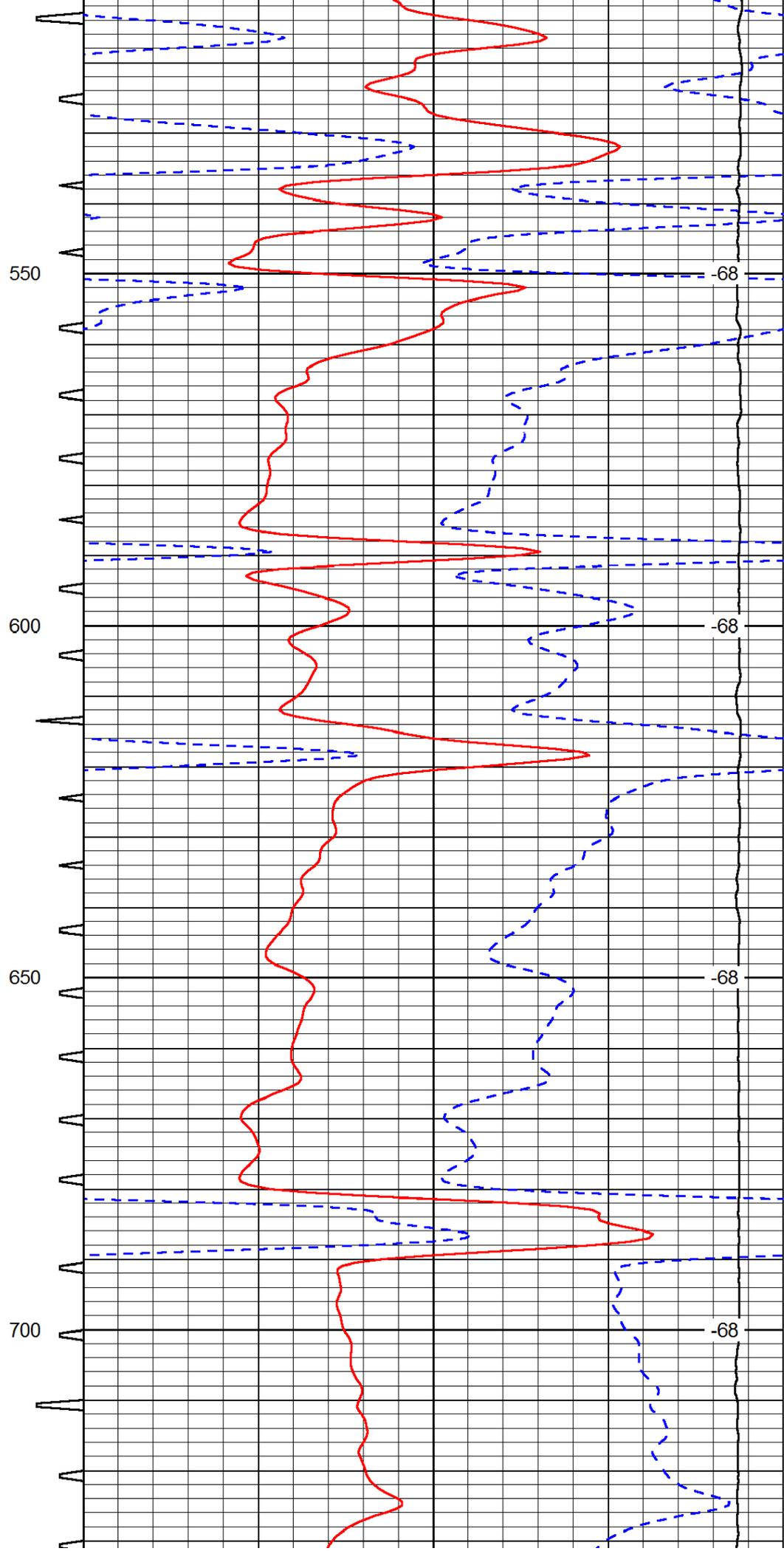
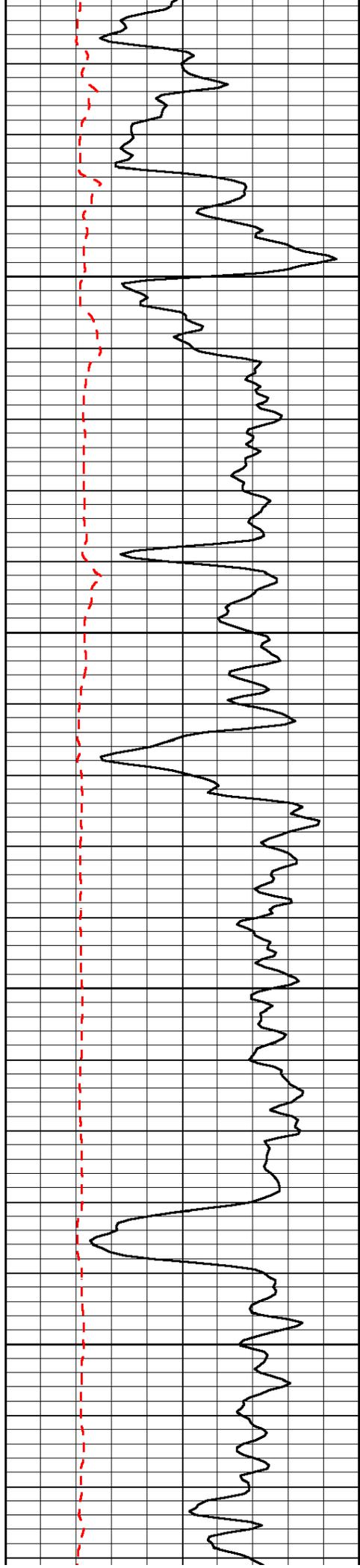
Database File: c:\warrior\data\quail oil & gas_ross #1-7\quail_ross_1_7hd.db
 Dataset Pathname: DIL/quailstk
 Presentation Format: sonic
 Dataset Creation: Fri Nov 30 09:14:55 2012
 Charted by: Depth in Feet scaled 1:240

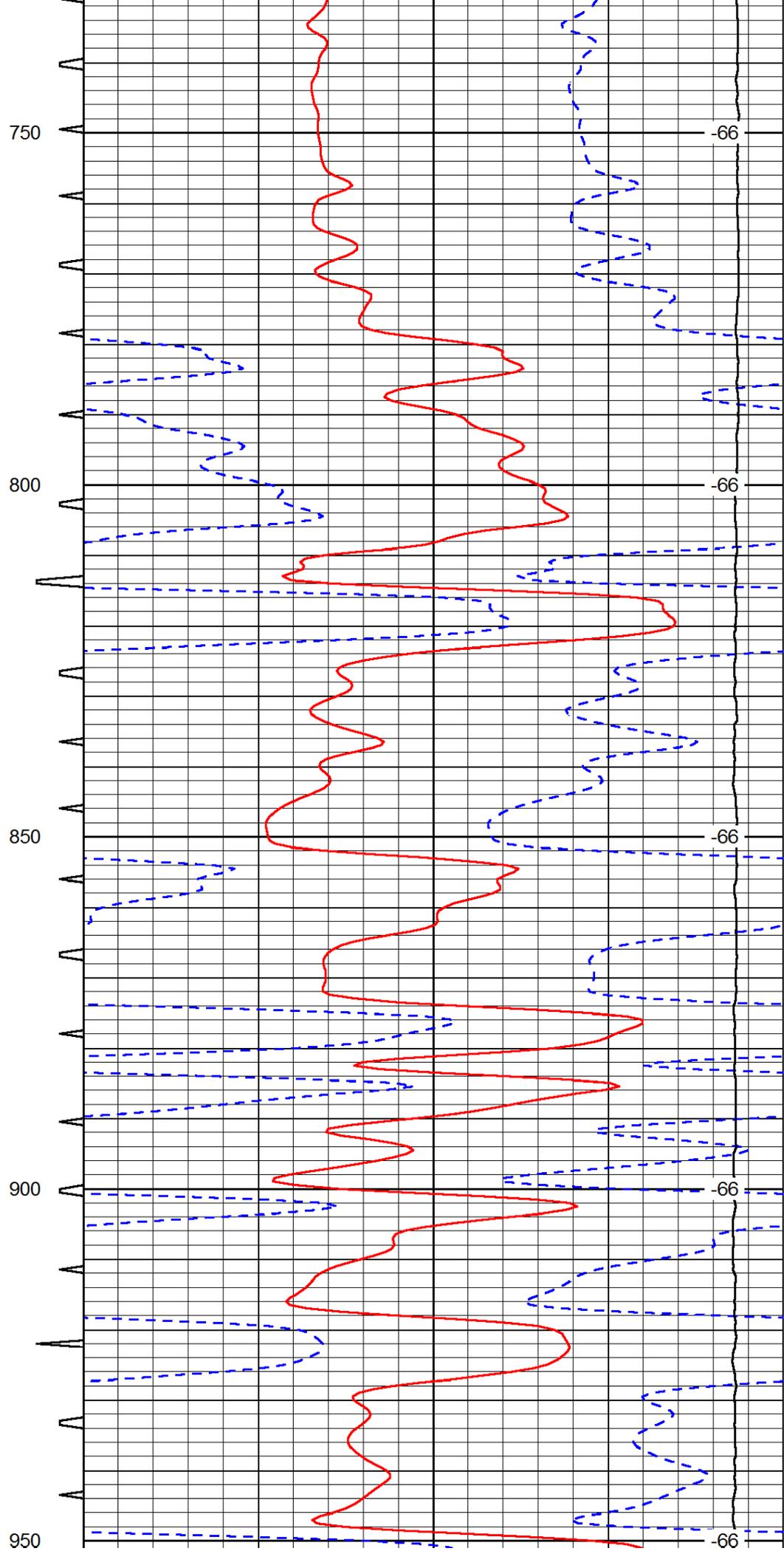
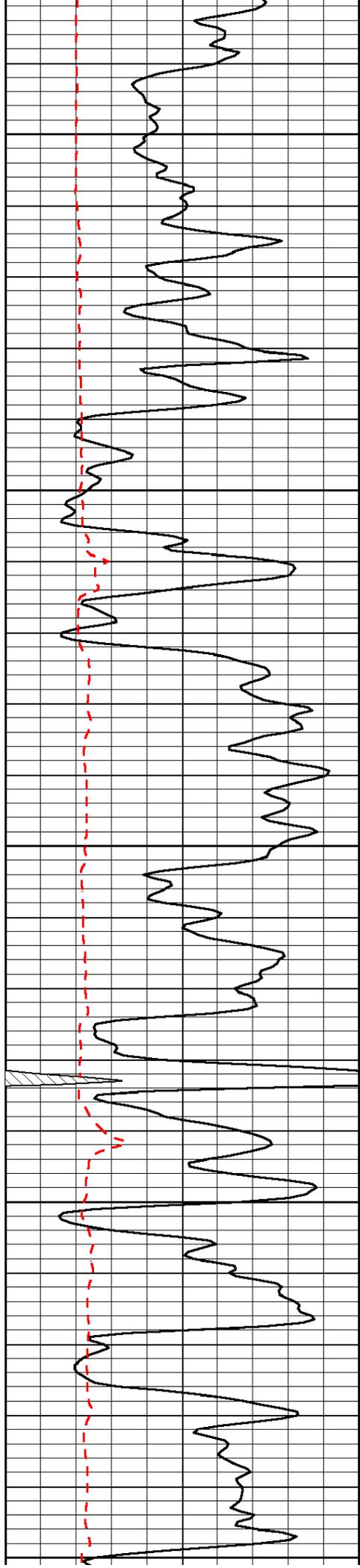
| | | | | | | |
|-----|----------------|-----|-----------|-------|----------------------|-----|
| 0 | Gamma Ray | 150 | Sonic Int | 140 | Delta Time (usec/ft) | 40 |
| 150 | Gamma Ray | 300 | 5 | 0 | SPOR | -10 |
| 6 | Caliper (GAPI) | 16 | | 15000 | LTEN (lb) | 0 |

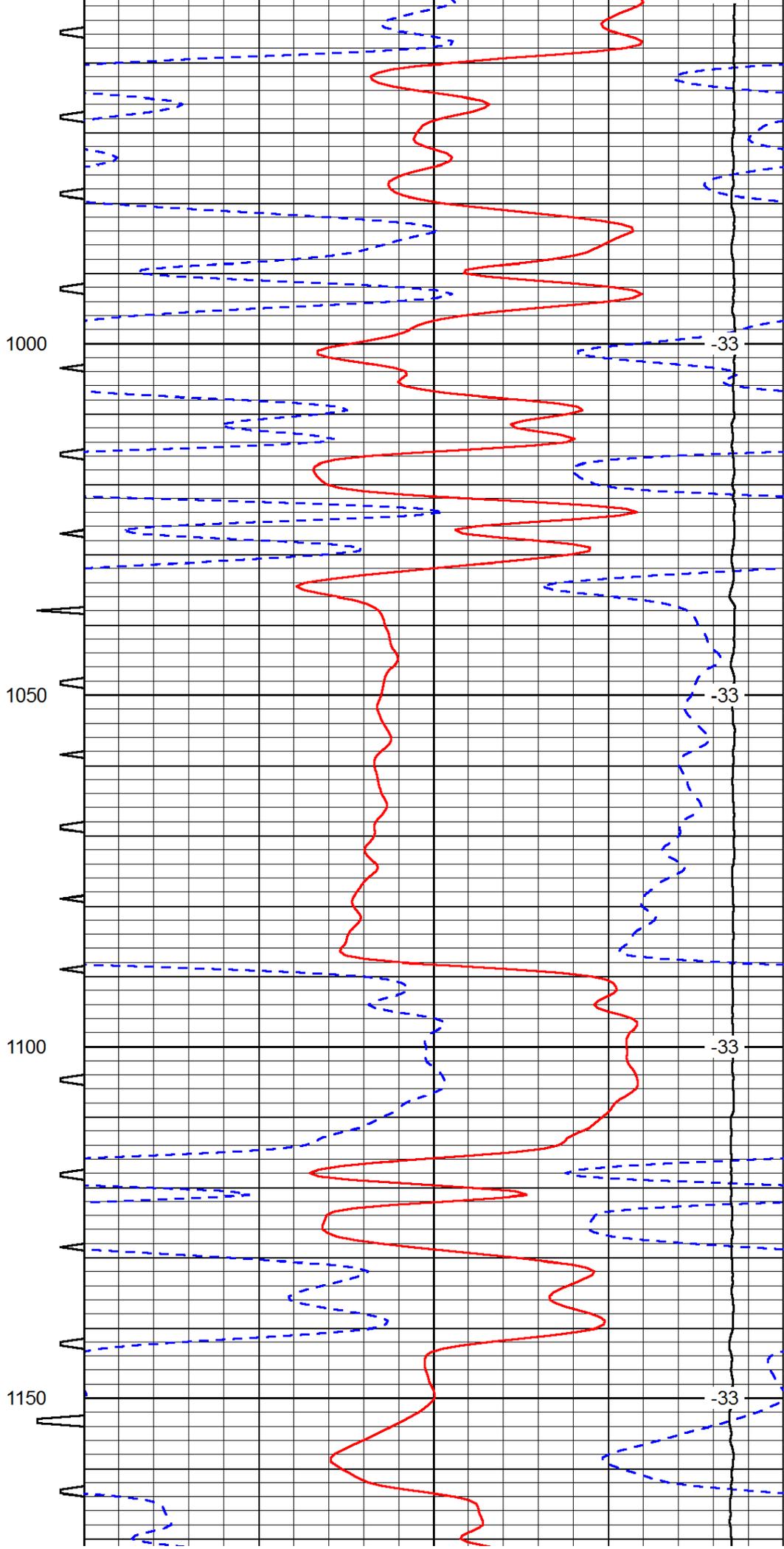
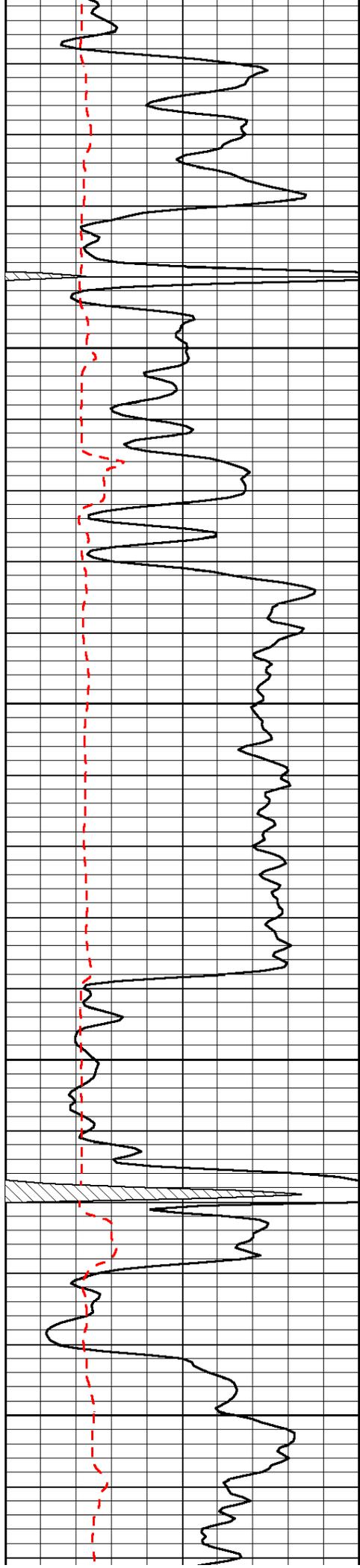
LSPD

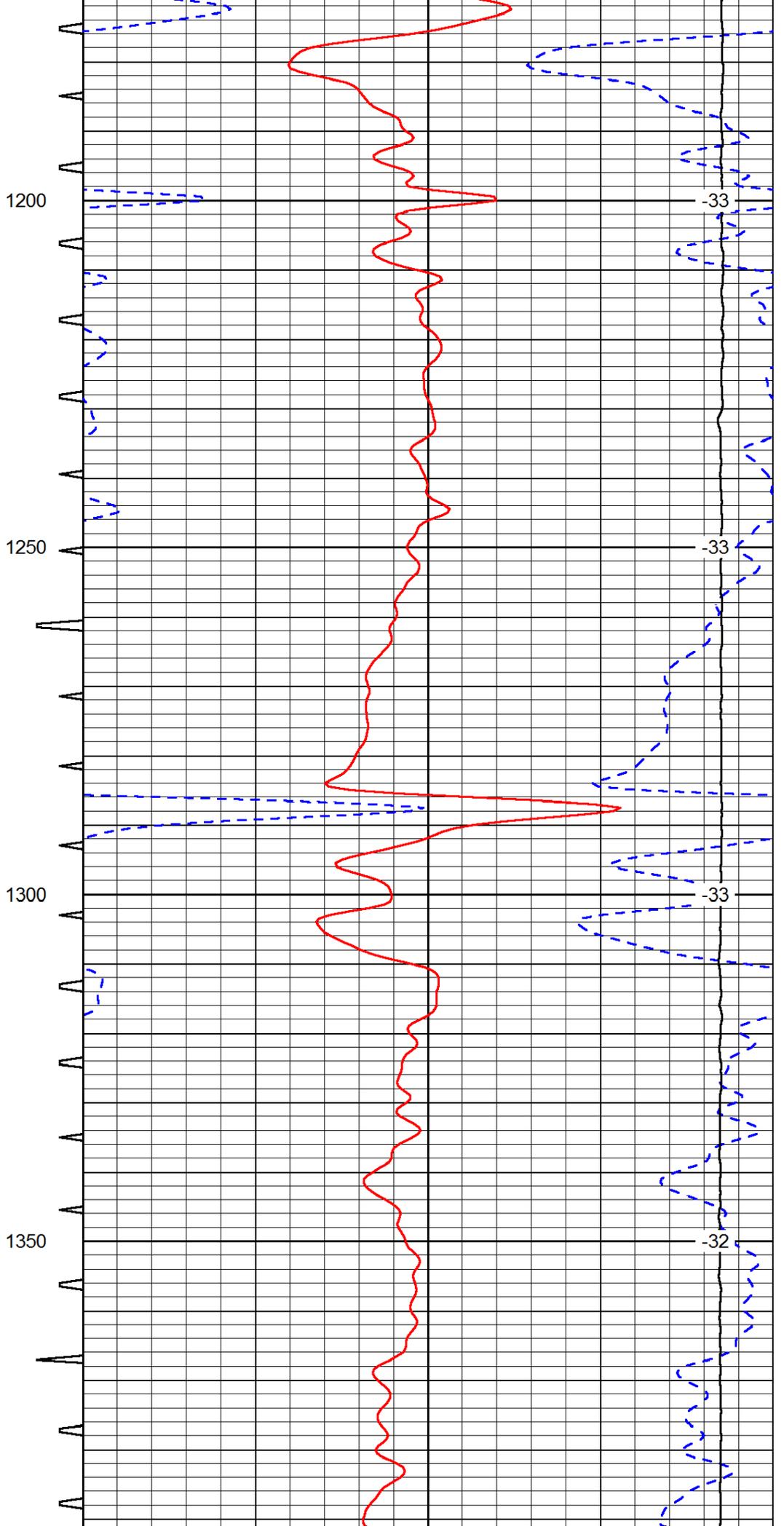
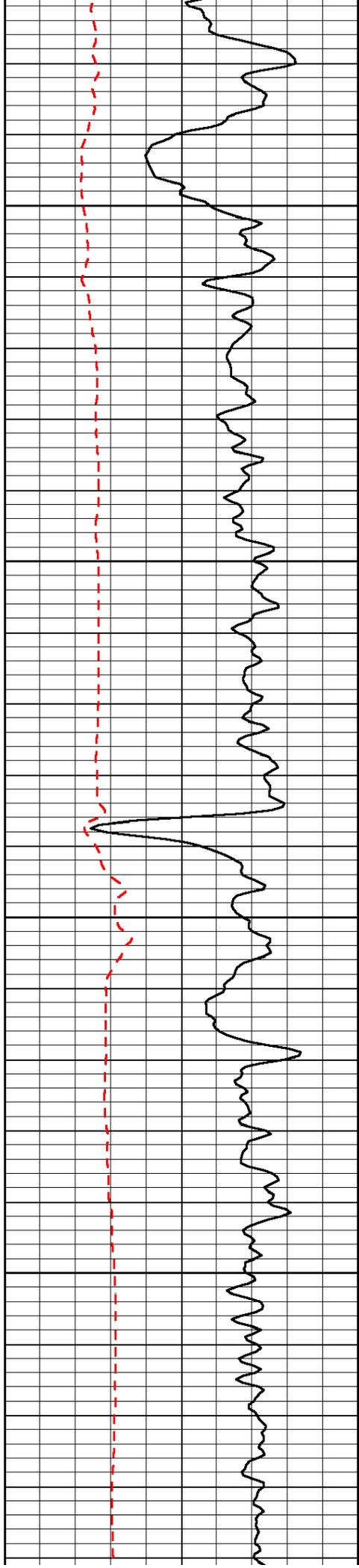


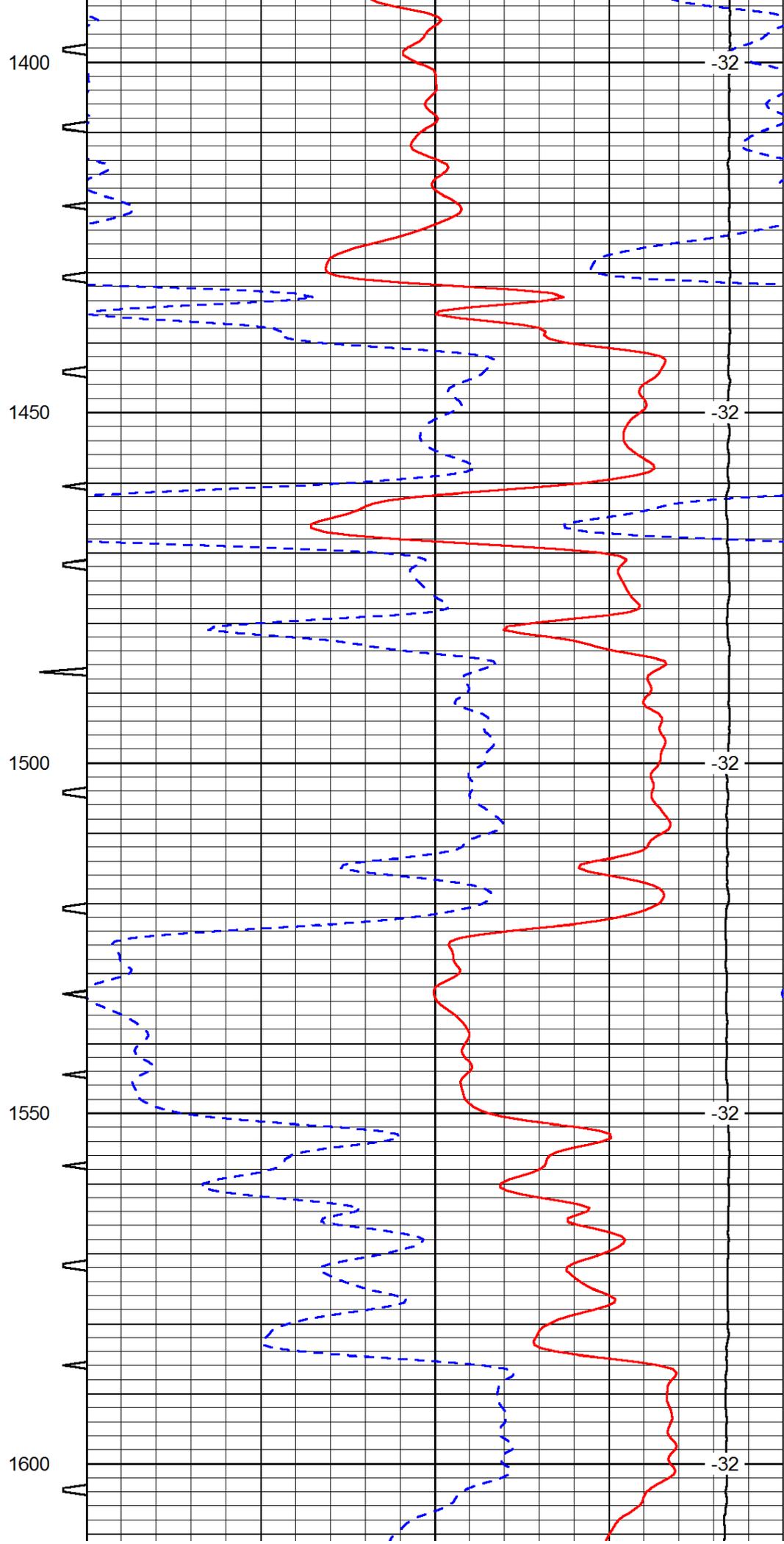
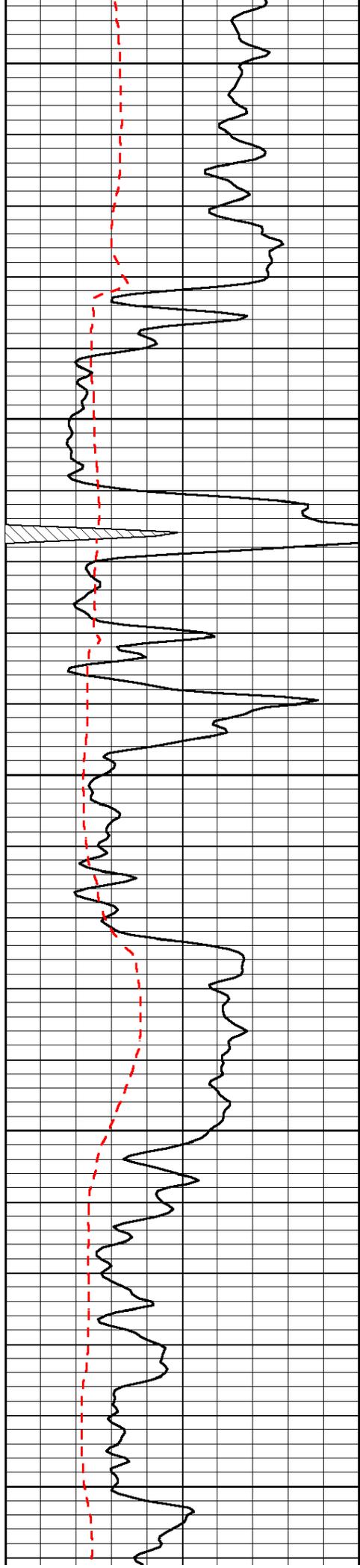


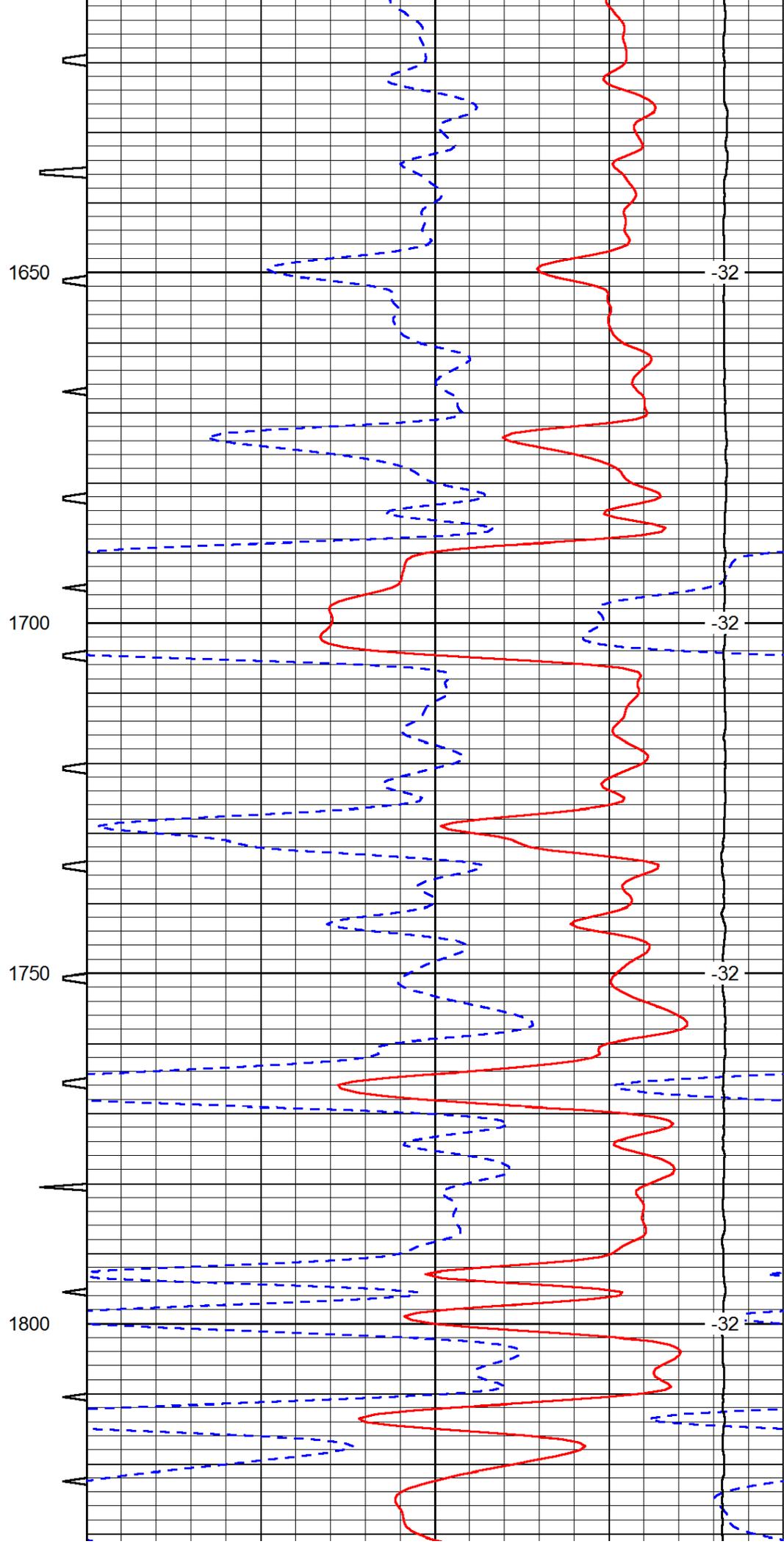
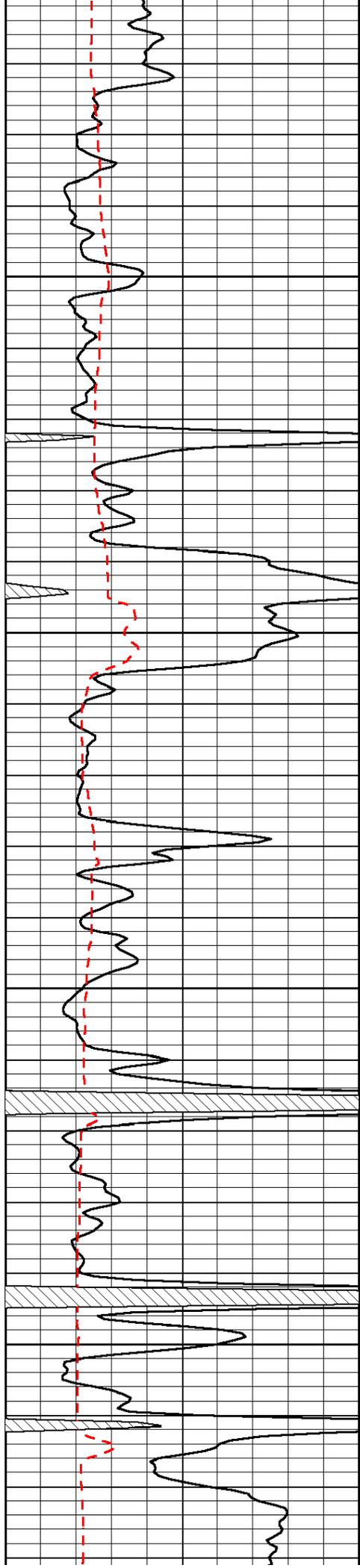


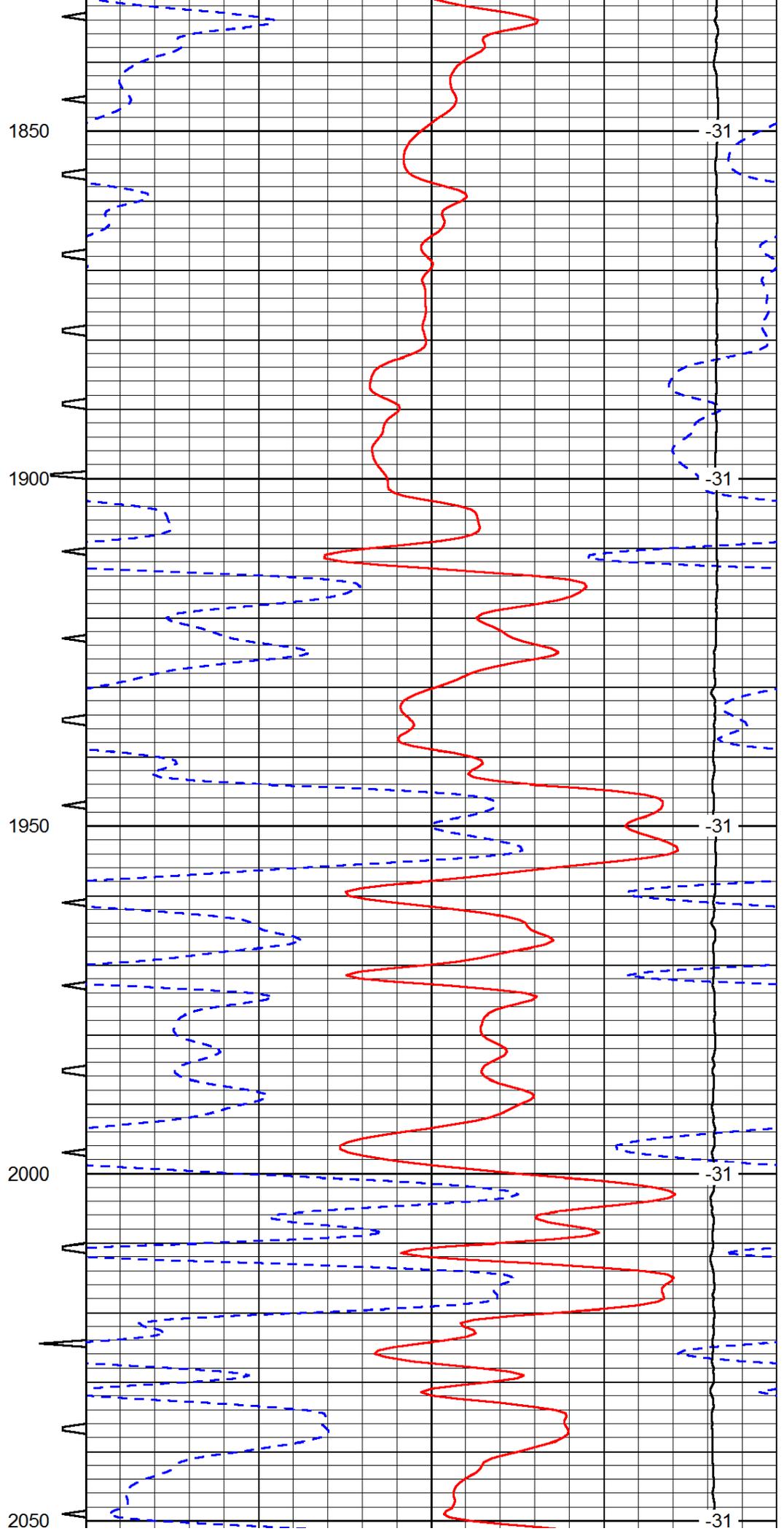
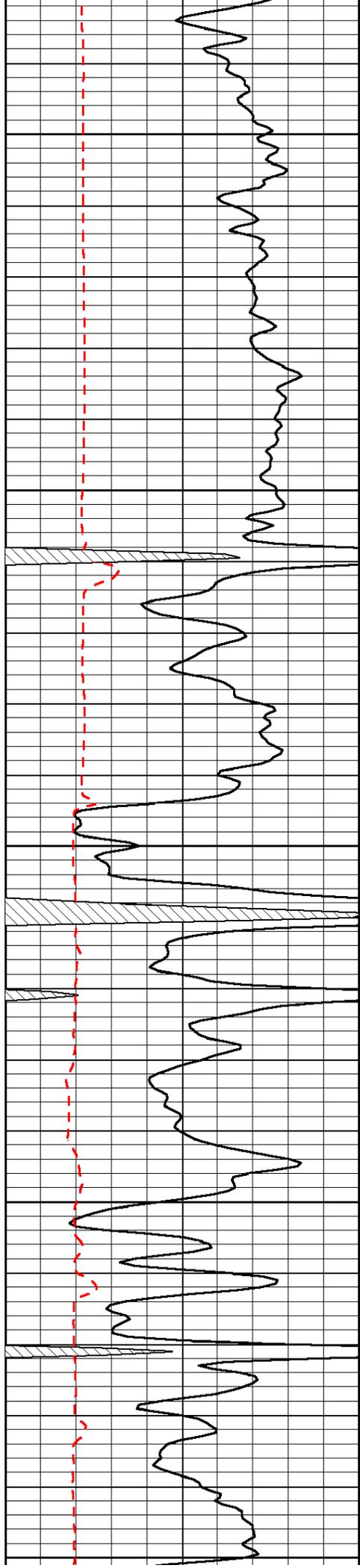


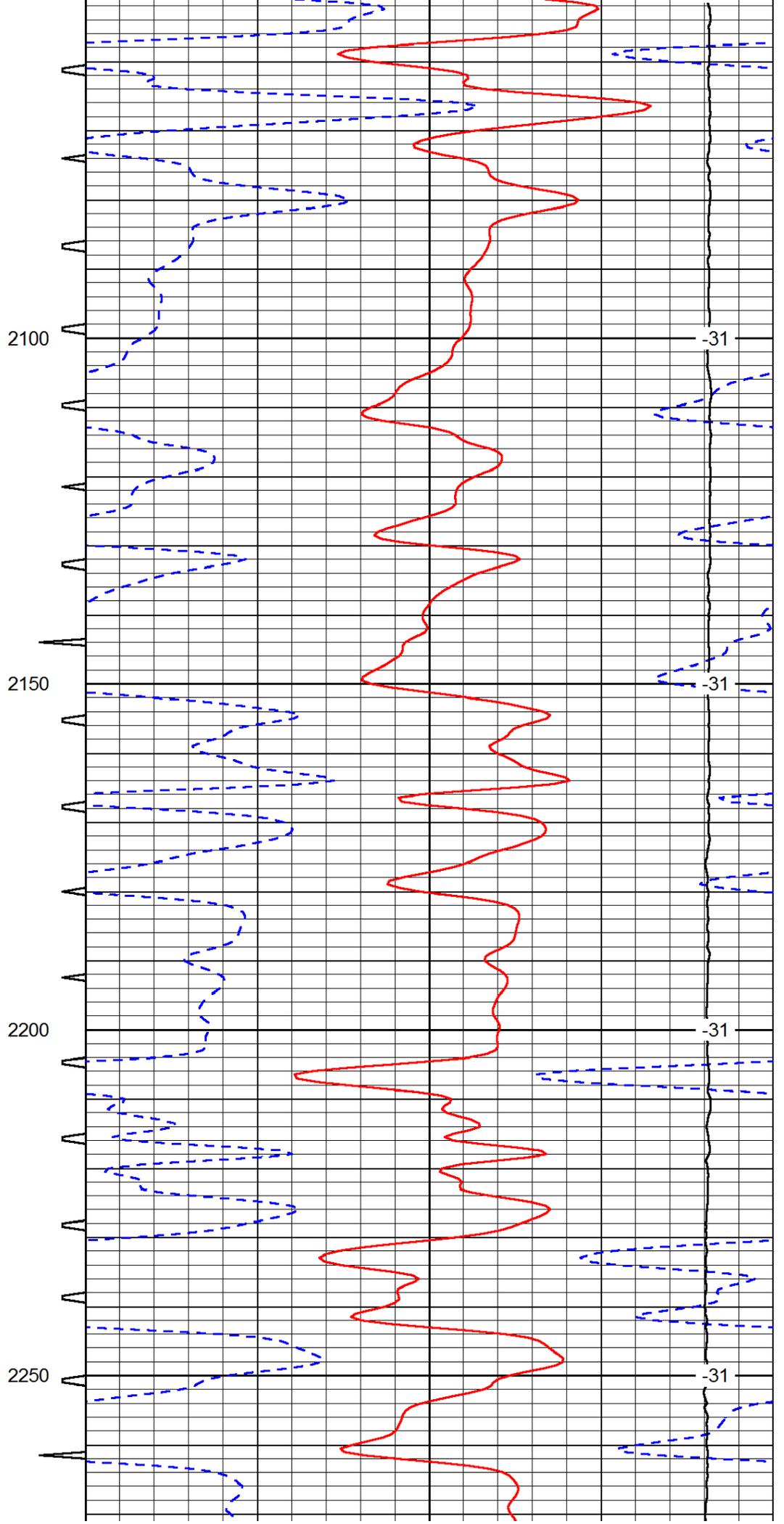
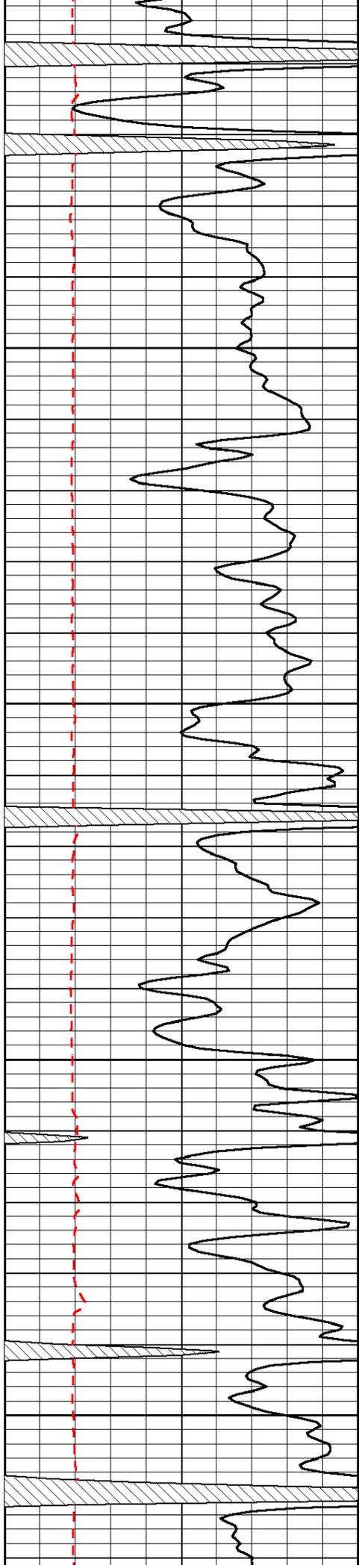


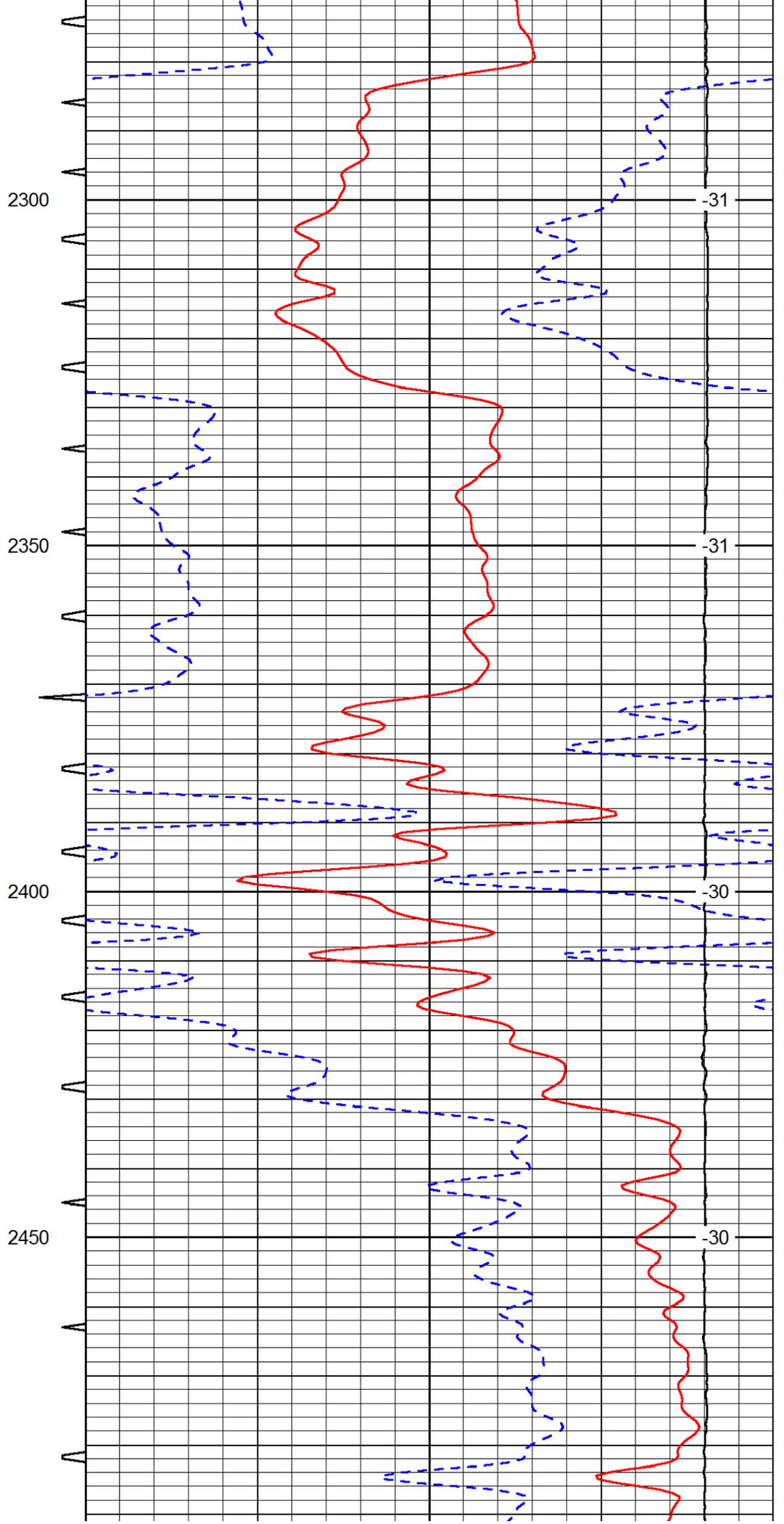
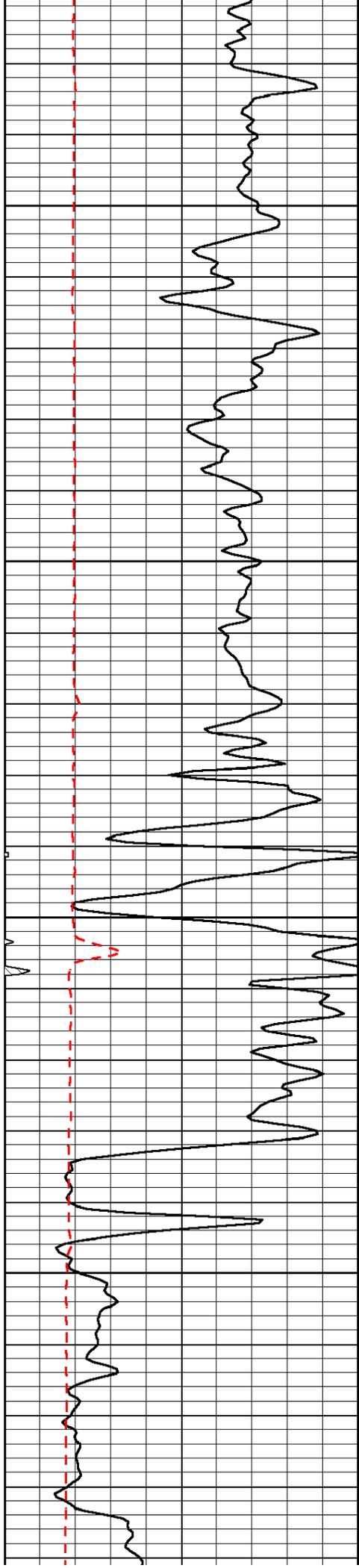


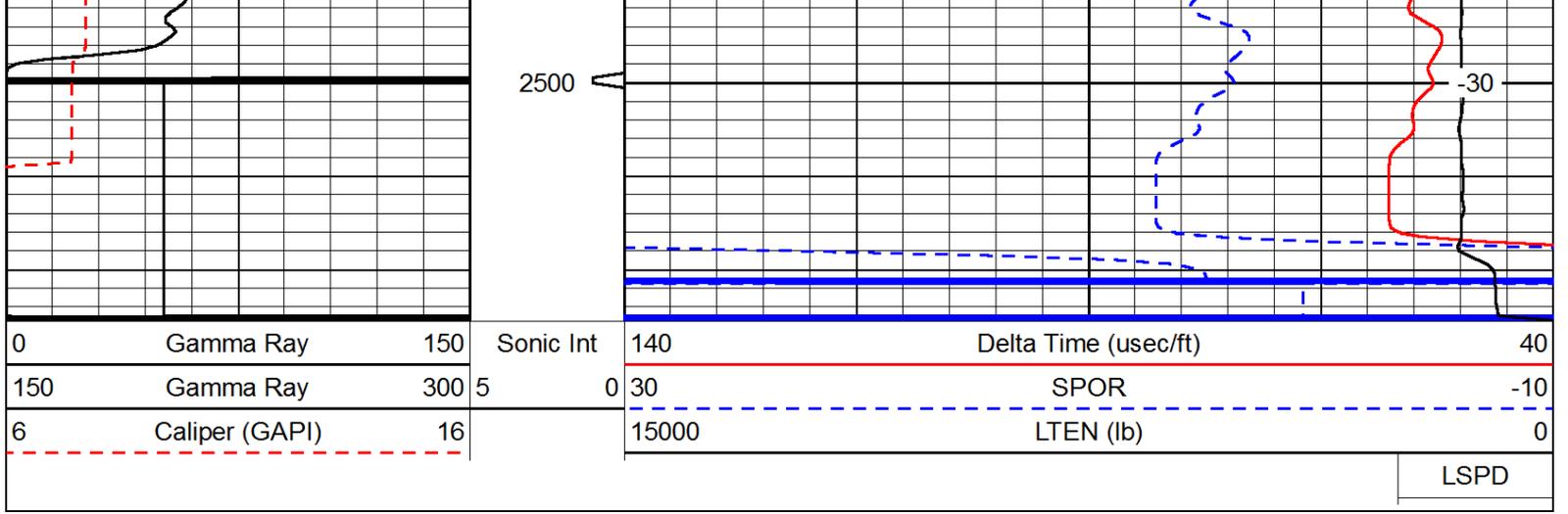












LSPD