



COMPENSATED DENSITY LOG

WIRELINE

| | | | |
|------------------------------|--|----------------|---------------------------|
| Company | Pioneer Natural Resources | Company | Pioneer Natural Resources |
| Well | Islander 33-13 | Well | Islander 33-13 |
| Field | Purgatorie River | Field | Purgatorie River |
| County | Las Animas | County | Las Animas |
| State | CO | State | CO |
| Location: | API # : 05-071-09727-00 1601' FSL & 2324' FEL | Other Services | SIL |
| Permanent Datum | SEC 13 TWP 33S RGE 67W | Elevation | |
| Log Measured From | Ground Level | K.B. 7417' | |
| Drilling Measured From | Kelly Bushing 4' Above G.L. | D.F. ----- | |
| | Kelly Bushing | G.L. 7413' | |
| Date | 12/21/09 | | |
| Run Number | one | | |
| Depth Driller | 2310' | | |
| Depth Logger | 2308' | | |
| Bottom Logged Interval | 2306' | | |
| Top Log Interval | 380' | | |
| Casing Driller | 399' | | |
| Casing Logger | 400' | | |
| Bit Size | 7 7/8" | | |
| Type Fluid in Hole | water | | |
| Density / Viscosity | /// | | |
| pH / Fluid Loss | /// | | |
| Source of Sample | /// | | |
| Rm @ Meas. Temp | /// | | |
| Rmf @ Meas. Temp | /// | | |
| Rmc @ Meas. Temp | /// | | |
| Source of Rmf / Rmc | /// | | |
| Rm @ BHT | /// | | |
| Time Circulation Stopped | 8:30 p.m. | | |
| Time Logger on Bottom | 1:35 a.m. | | |
| Maximum Recorded Temperature | /// | | |
| Equipment Number | 697 | | |
| Location | Trinidad | | |
| Recorded By | Worley | | |
| Witnessed By | Mr. Berry | | |

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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

Sarcillo to Duck Pond, go left, at signs that say Rancho Lagrita and Smyth Trek go left, stay on Smyth Trek to Deer Valley Rd, go right, at Log Cabin Dr, go right, on Fawn Rd go right, stay on main road to Stop sign, go left to location.

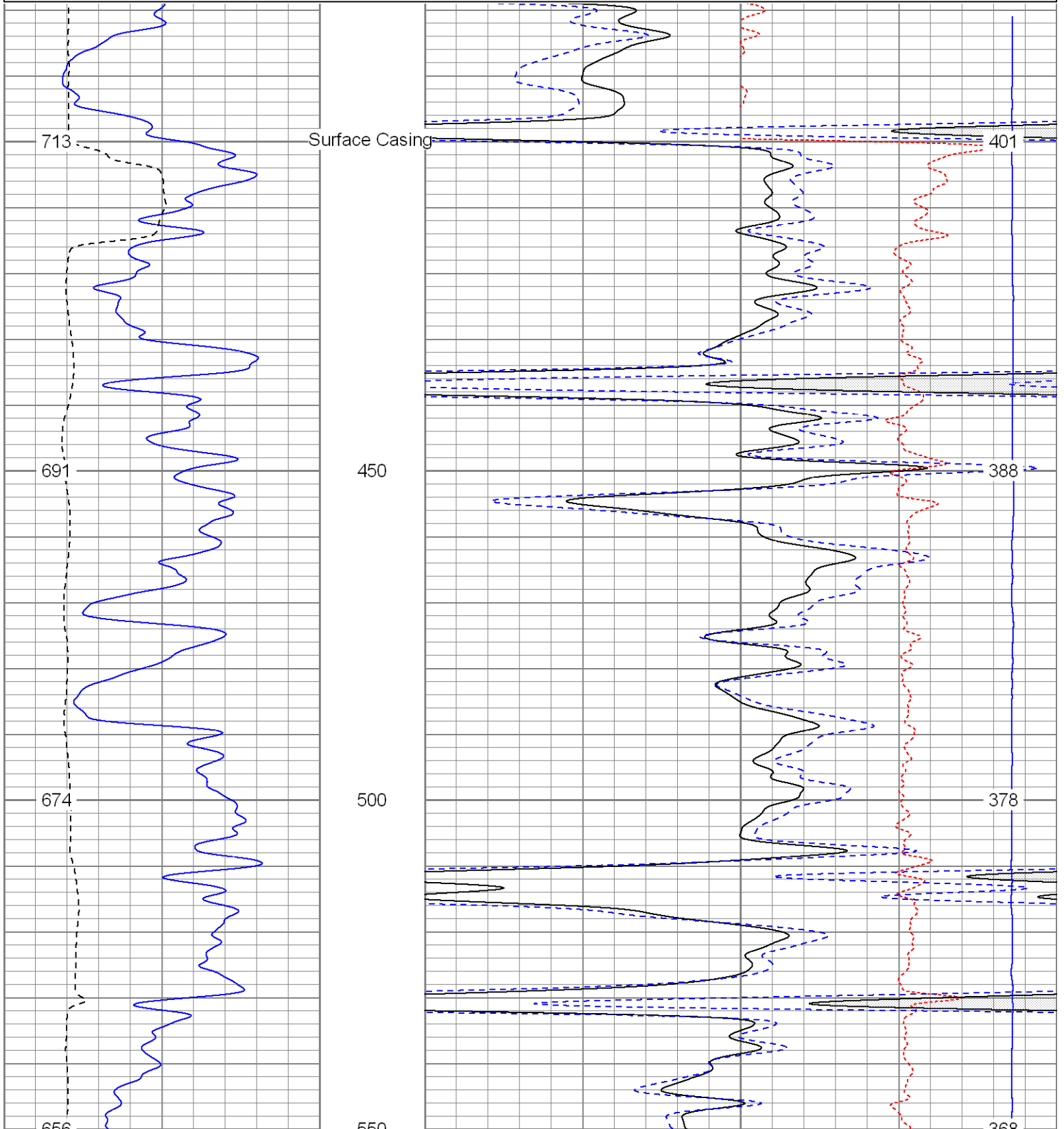


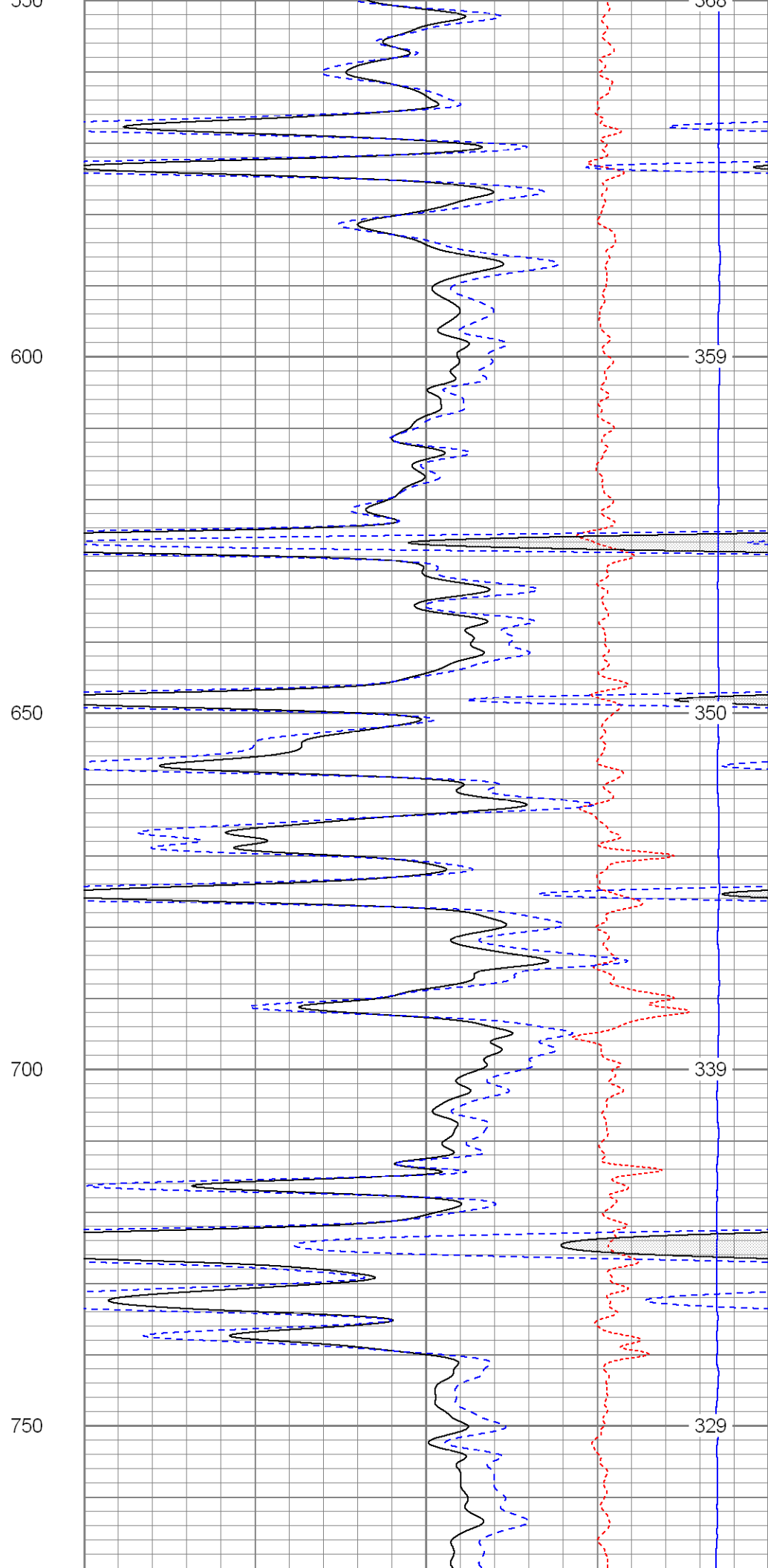
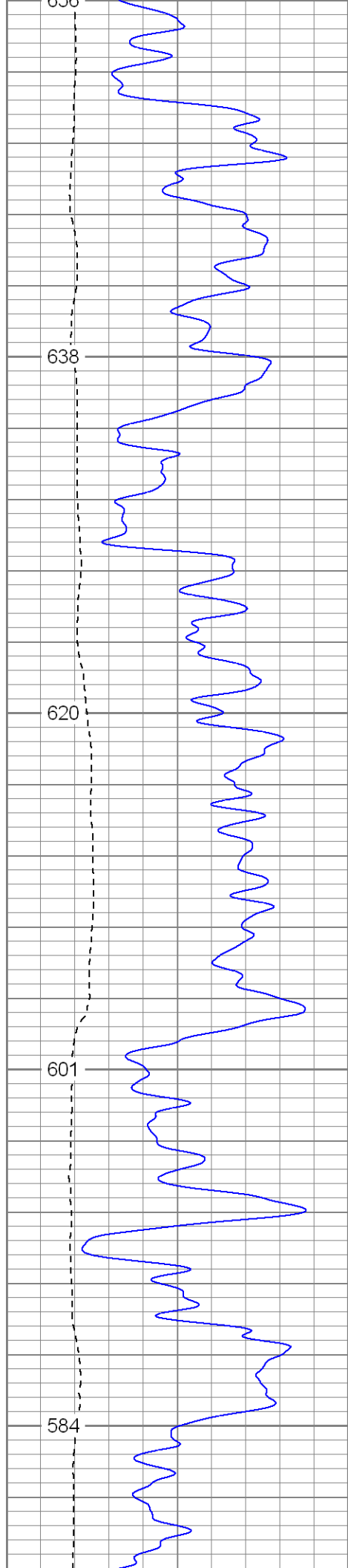
Main Pass

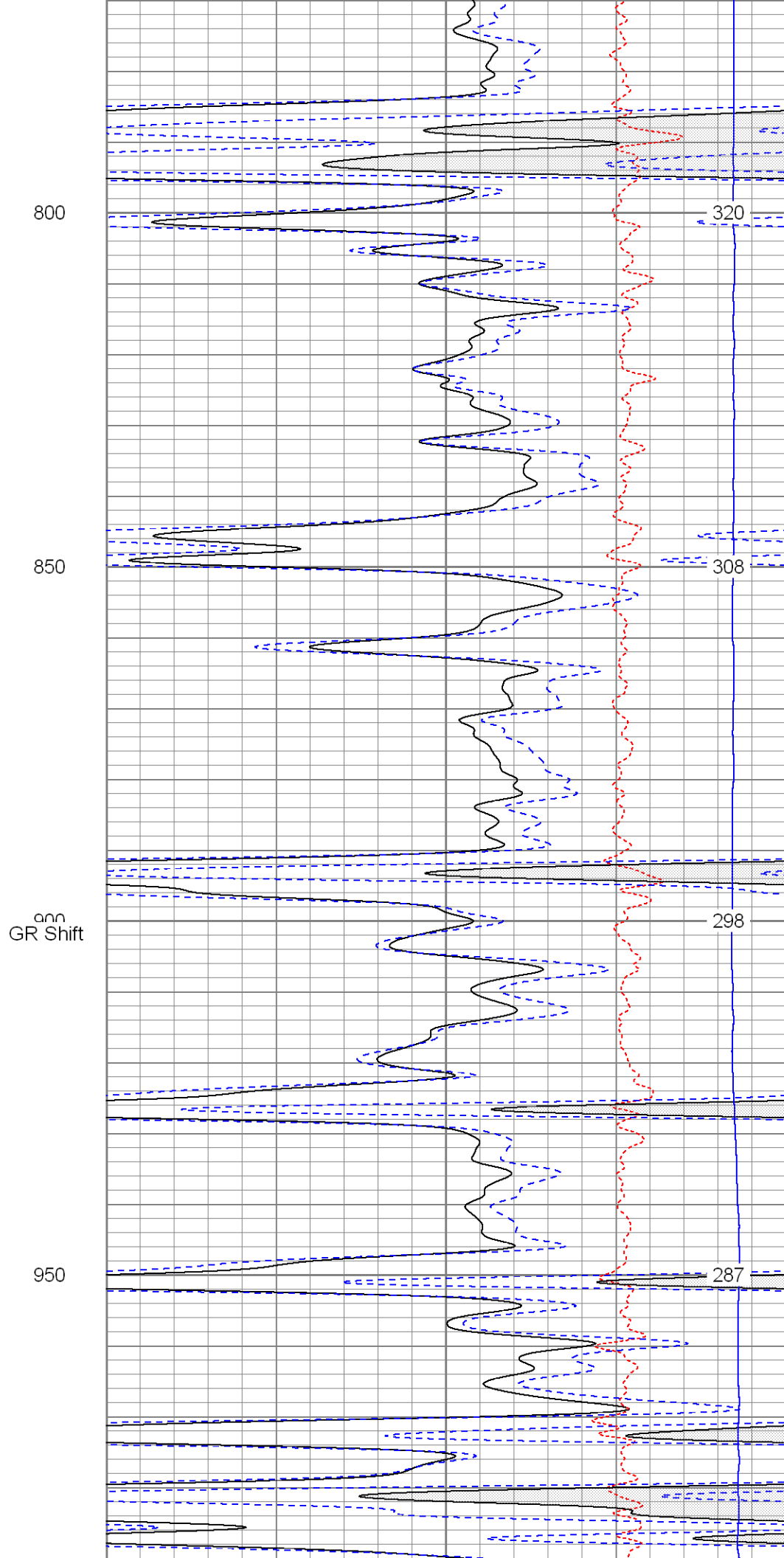
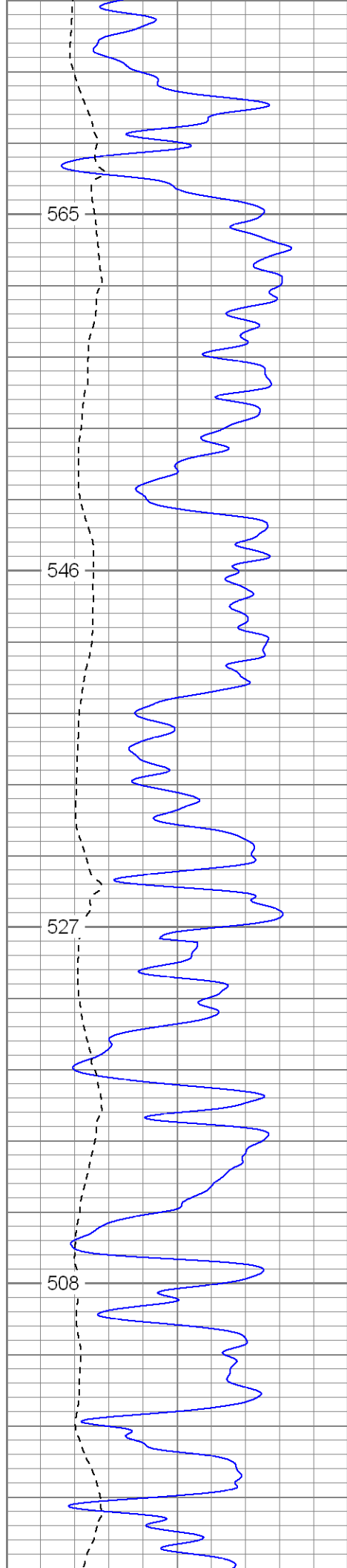
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Dataset Pathname: pass3.2
Presentation Format: cdl
Dataset Creation: Mon Dec 21 07:08:14 2009 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

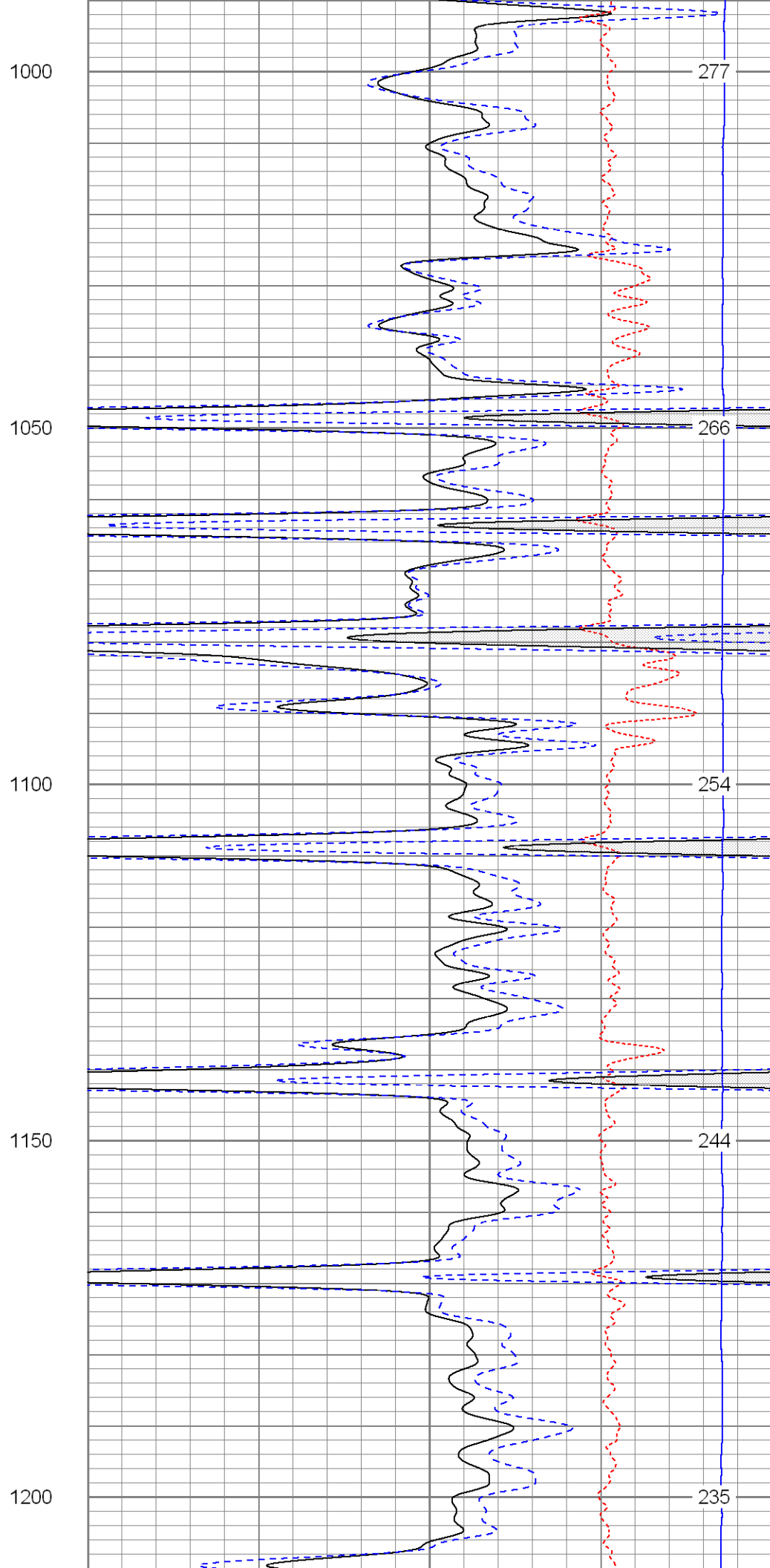
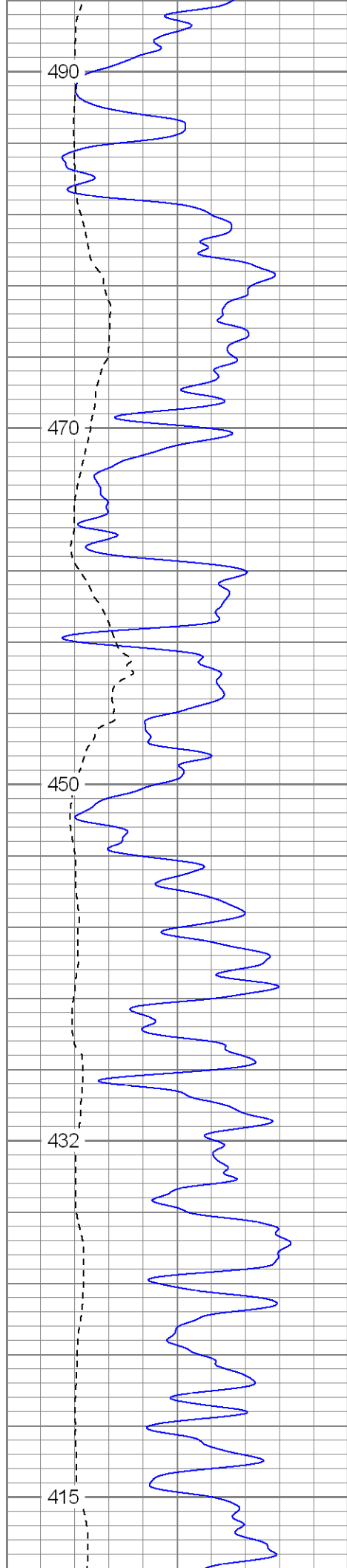
| | | |
|------------|-----------|-----|
| 0 | GR (GAPI) | 200 |
| 6 | DCAL (in) | 16 |
| TBHV (ft3) | | |

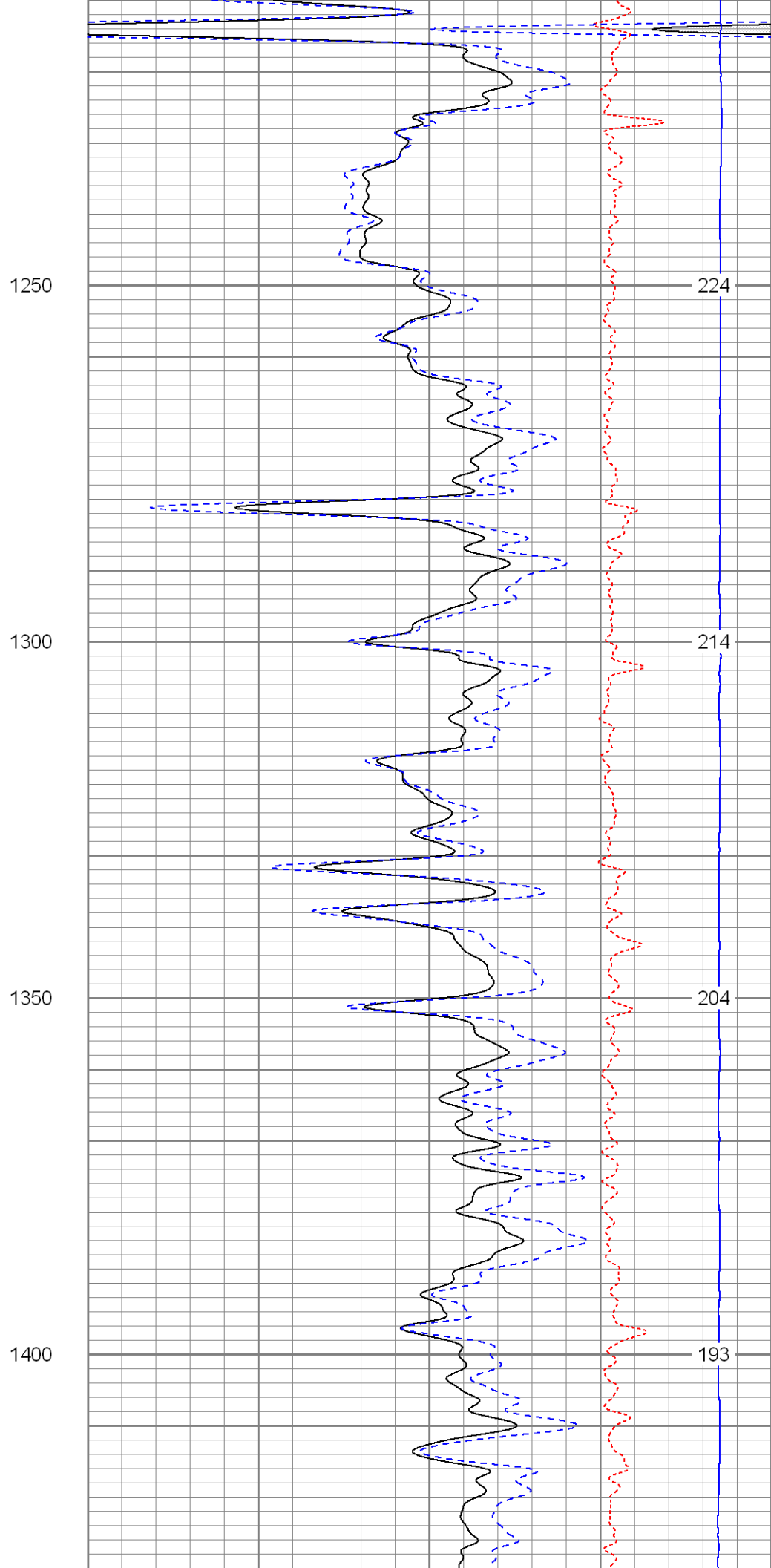
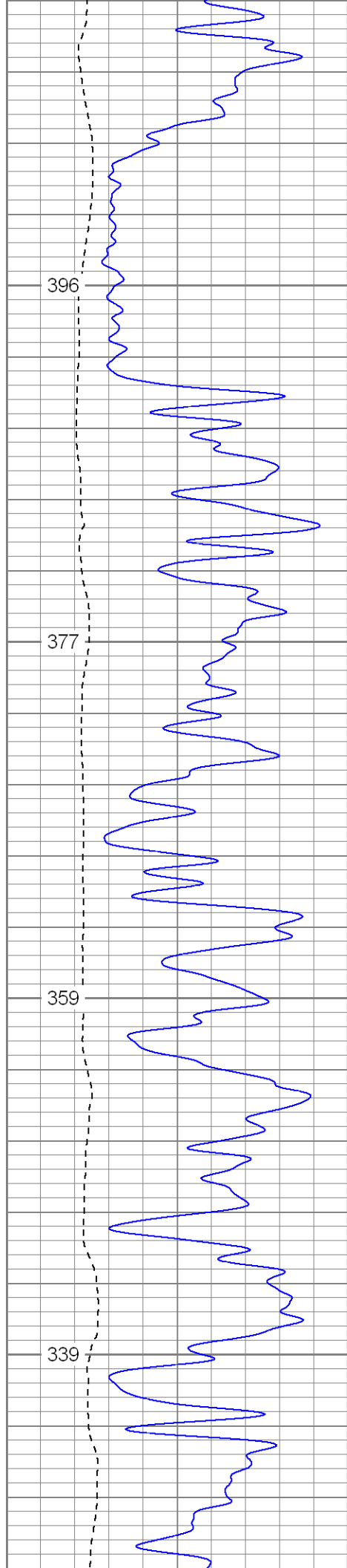
| | | |
|----------------------|-------------|-----|
| 2 | RHOB (g/cc) | 3 |
| 1 | RHOB (g/cc) | 2 |
| 30 | DPOR (pu) | -10 |
| -0.5 RHOC (g/cc) 0.5 | | |
| 7000 LTEN (lb) 0 | | |
| ABHV (ft3) | | |

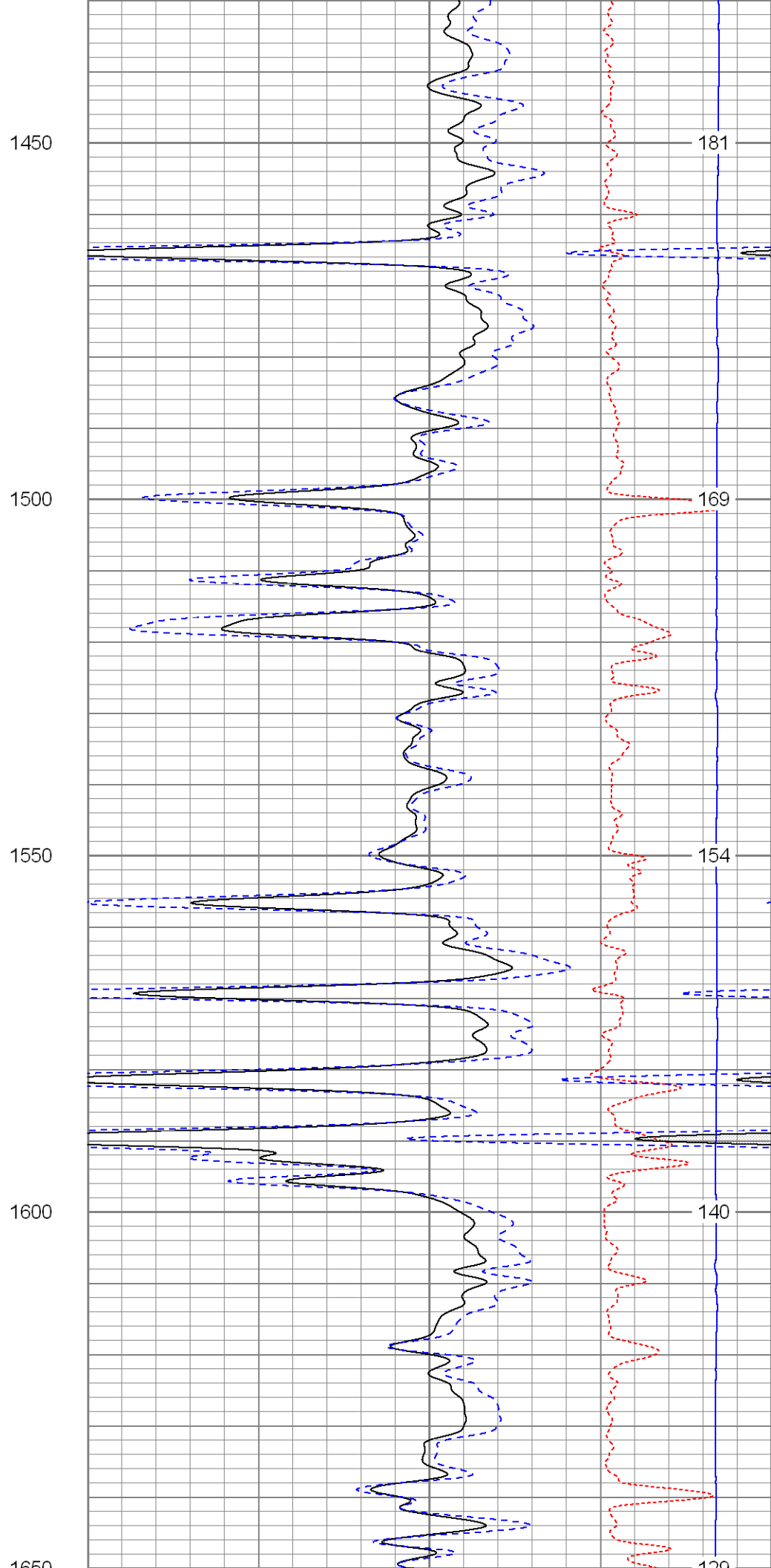
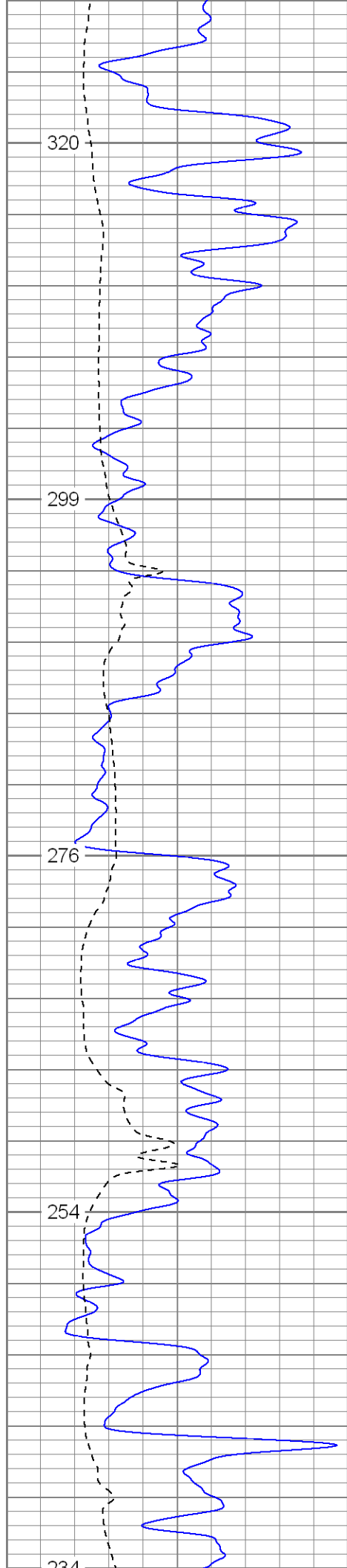


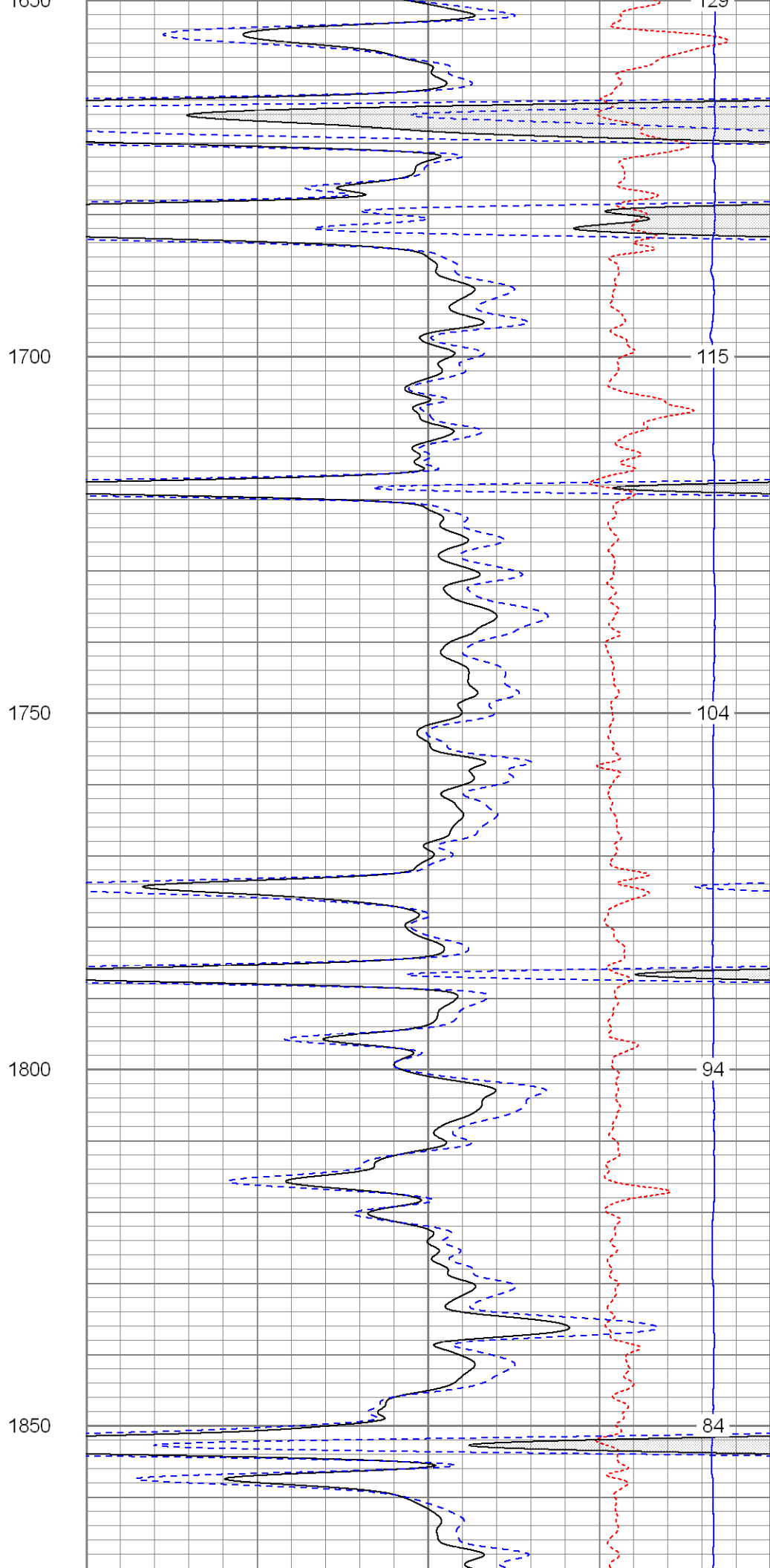
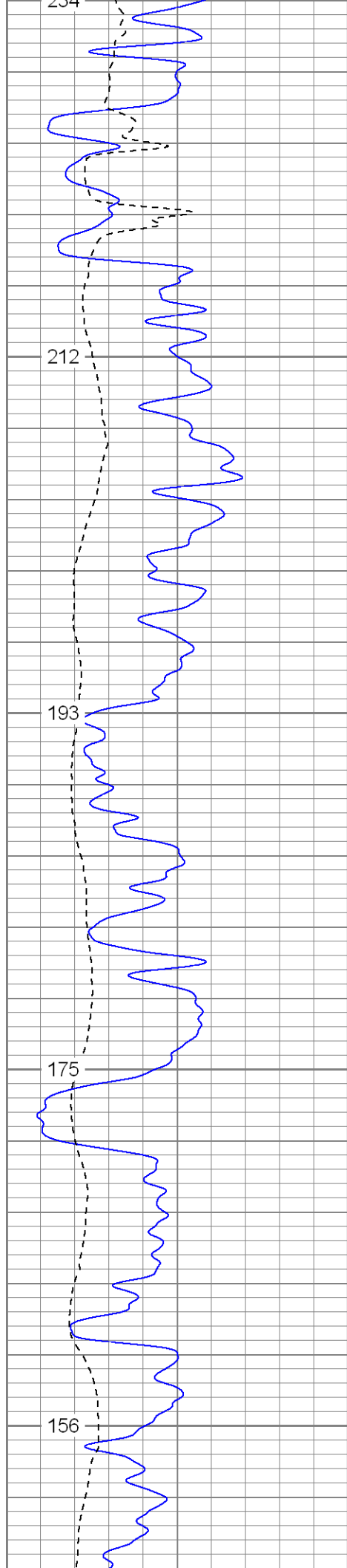


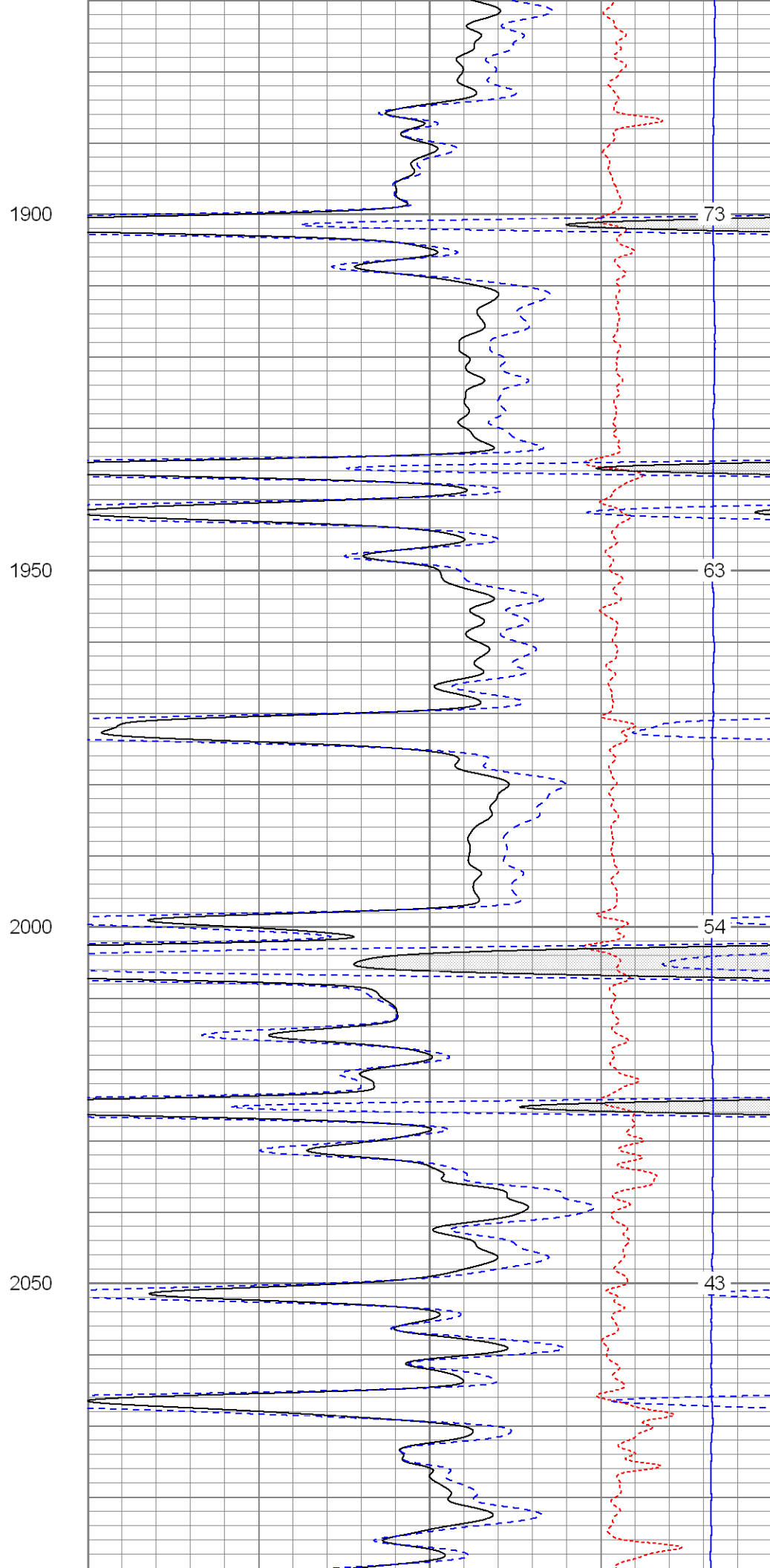
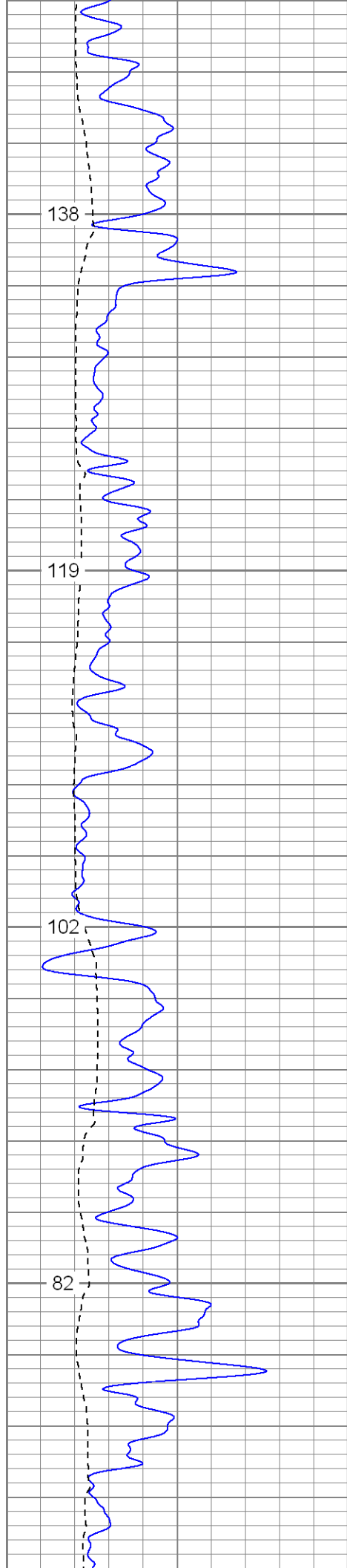


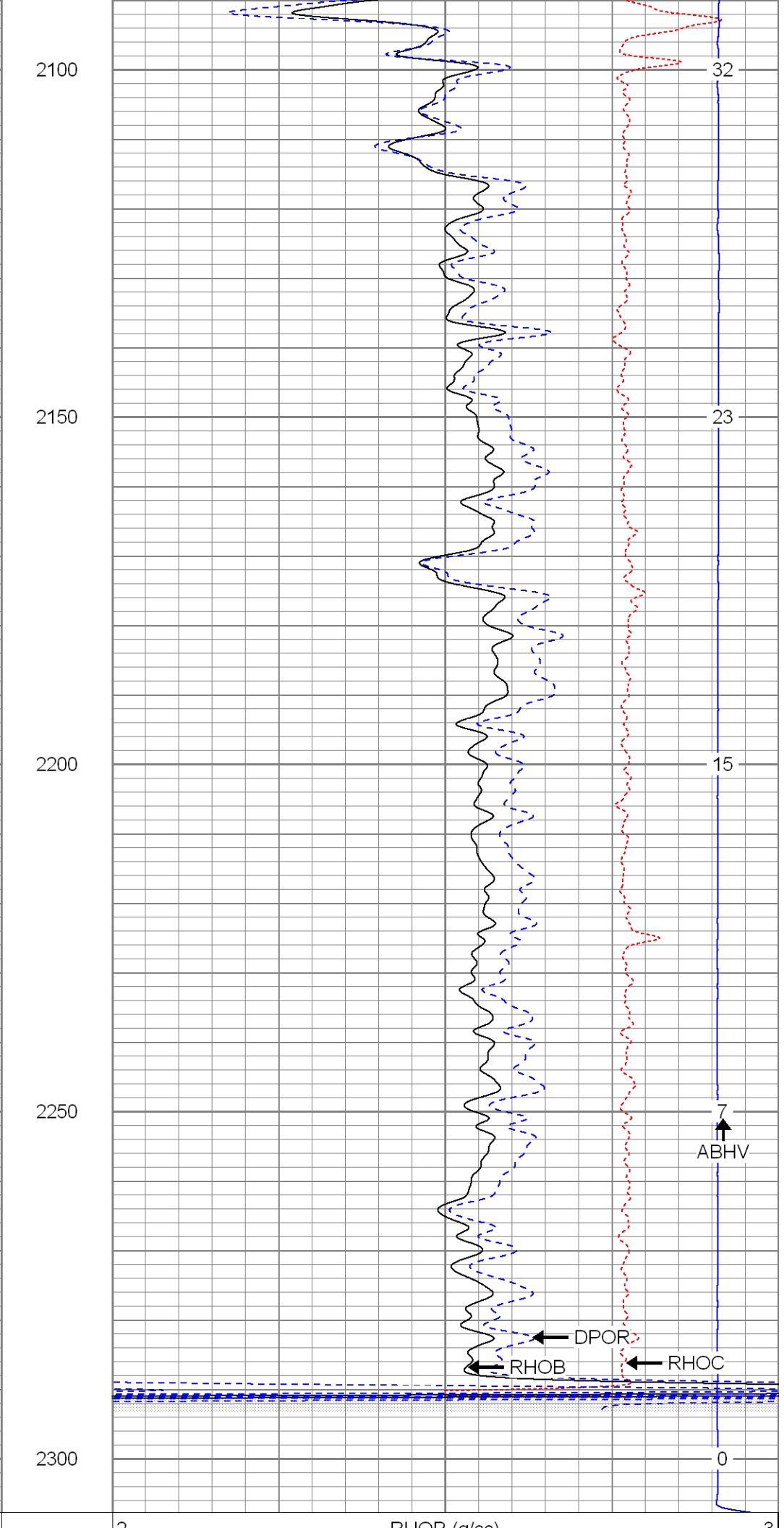
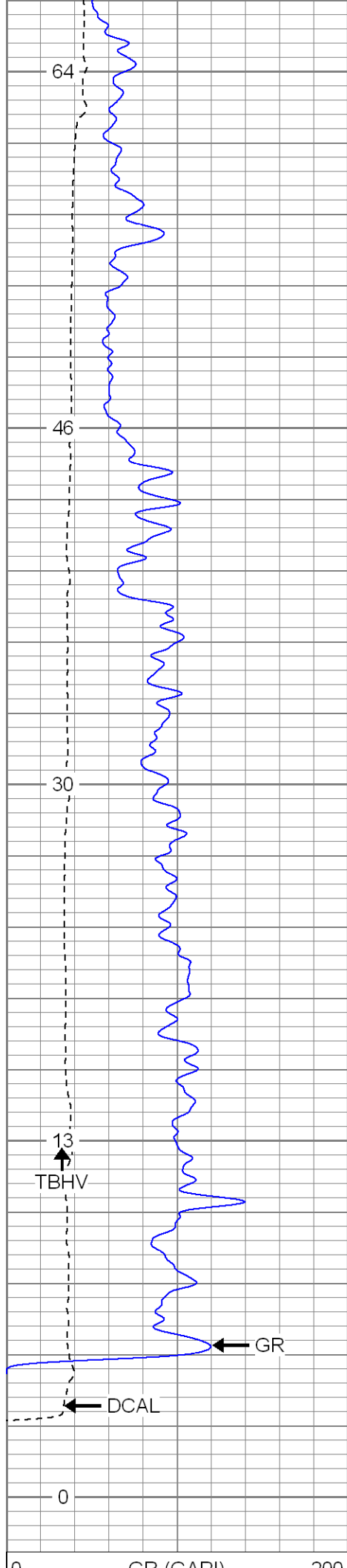












| | | |
|------------|-----------|-----|
| 0 | GR (GAPI) | 200 |
| 6 | DCAL (in) | 16 |
| TBHV (ft3) | | |

| | | |
|------|-------------|-----|
| 2 | RHOB (g/cc) | 3 |
| 1 | RHOB (g/cc) | 2 |
| 30 | DPOR (pu) | -10 |
| -0.5 | RHOC (g/cc) | 0.5 |
| 7000 | LTEN (lb) | 0 |
| | ABHV (ft3) | |

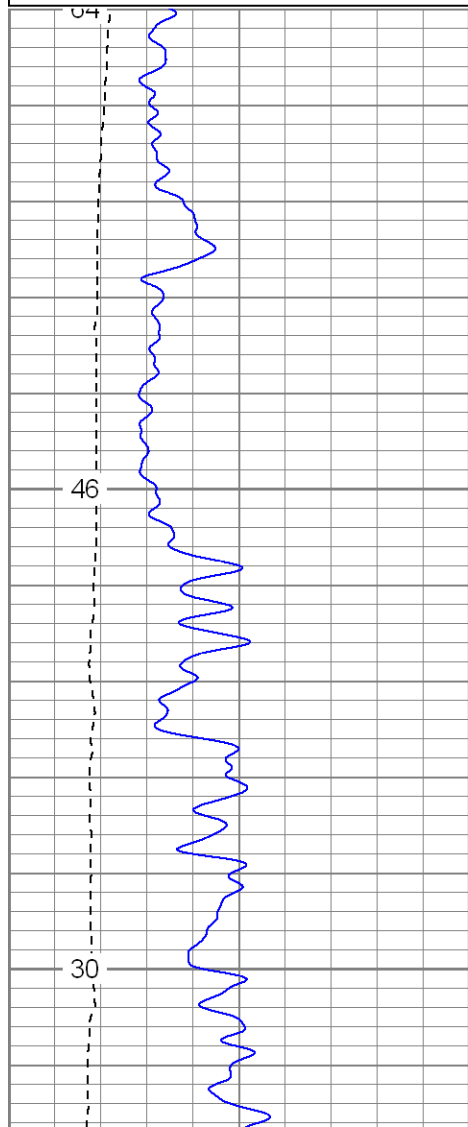


Repeat Section

Database File: islanderdi.db
Dataset Pathname: pass2.2
Presentation Format: cdl
Dataset Creation: Mon Dec 21 07:01:53 2009 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

| | | |
|------------|-----------|-----|
| 0 | GR (GAPI) | 200 |
| 6 | DCAL (in) | 16 |
| TBHV (ft3) | | |

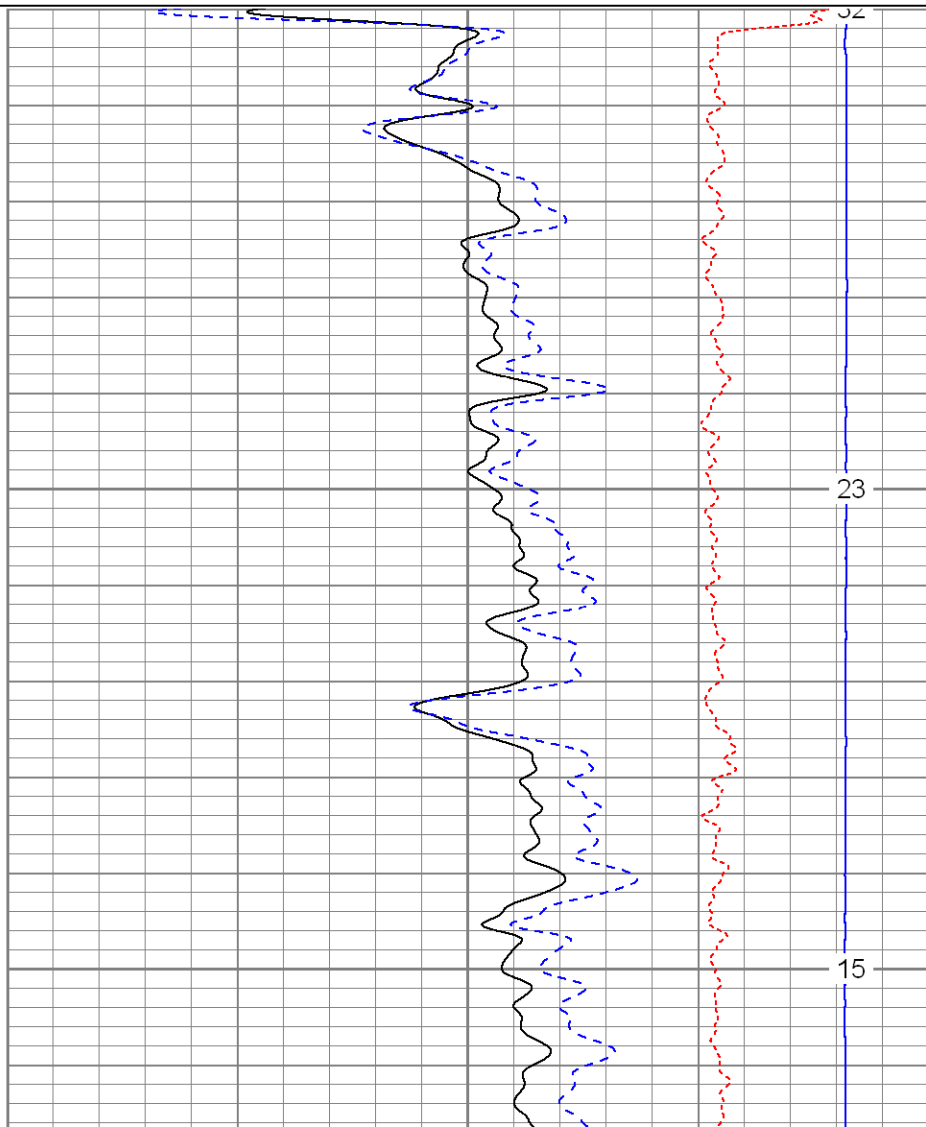
| | | |
|------|-------------|-----|
| 2 | RHOB (g/cc) | 3 |
| 1 | RHOB (g/cc) | 2 |
| 30 | DPOR (pu) | -10 |
| -0.5 | RHOC (g/cc) | 0.5 |
| 7000 | LTEN (lb) | 0 |
| | ABHV (ft3) | |

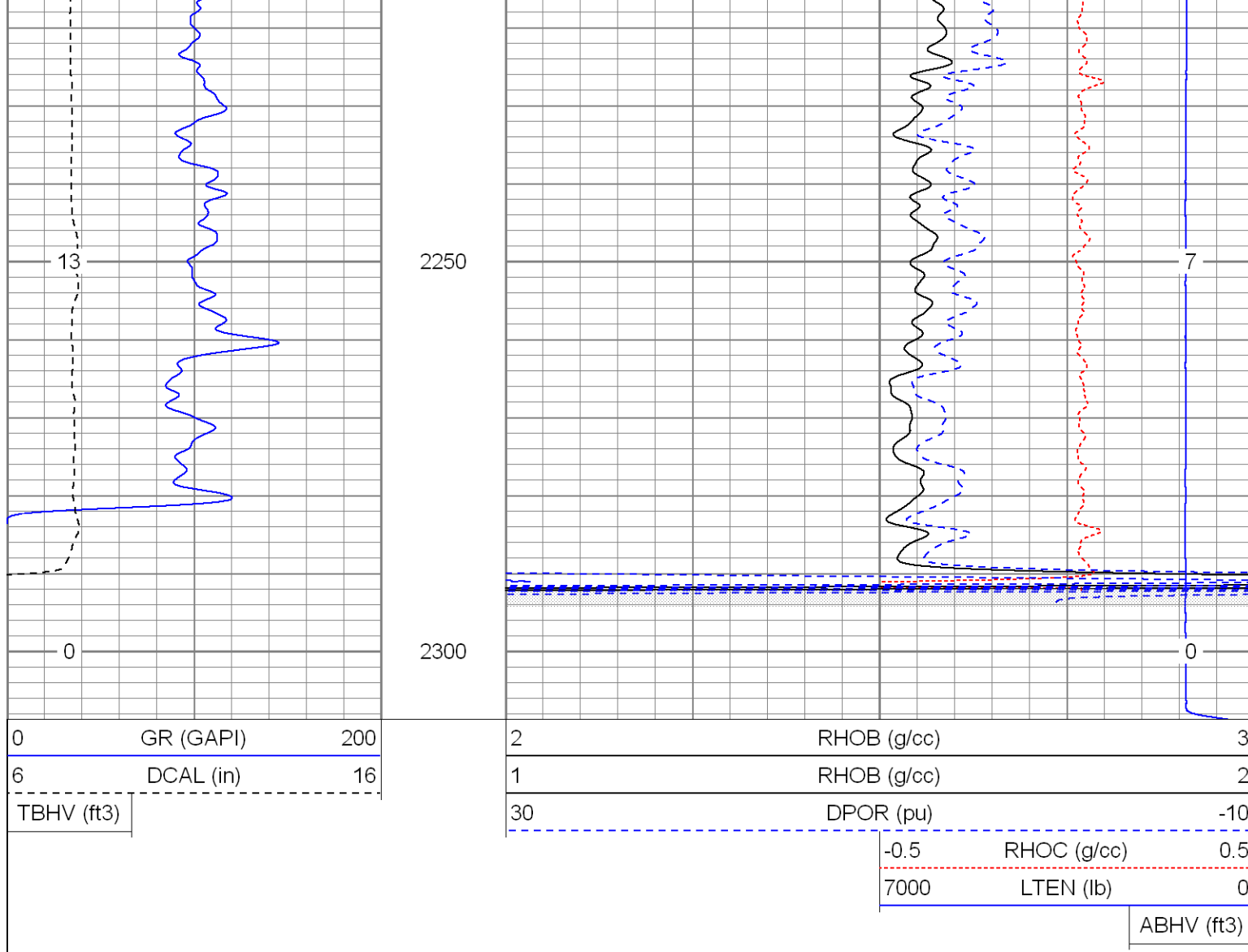


2100

2150

2200

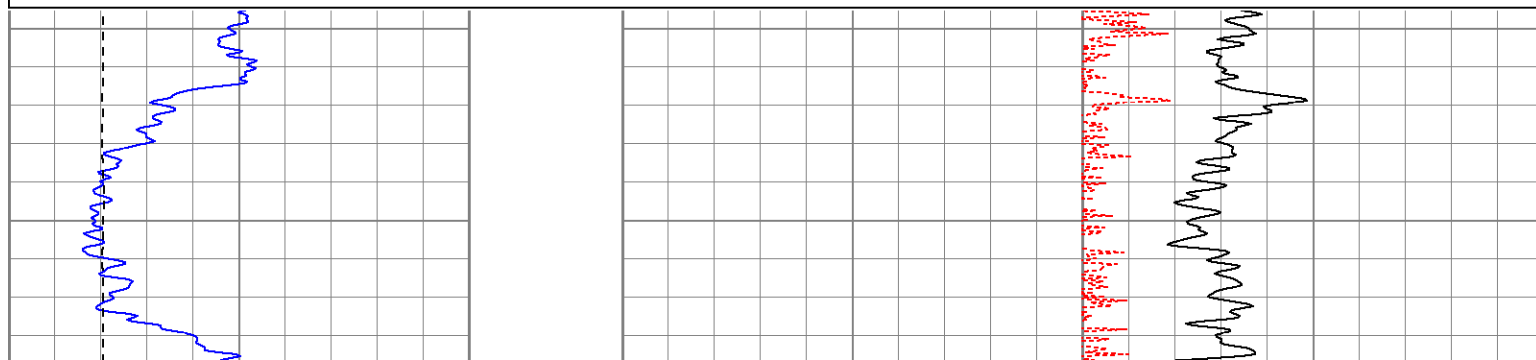




High Resolution Pass

Database File: islanderdi.db
 Dataset Pathname: pass3.2hr
 Presentation Format: cdlhr
 Dataset Creation: Mon Dec 21 07:15:46 2009 by Calc Open-Cased 071220
 Charted by: Depth in Feet scaled 1:120

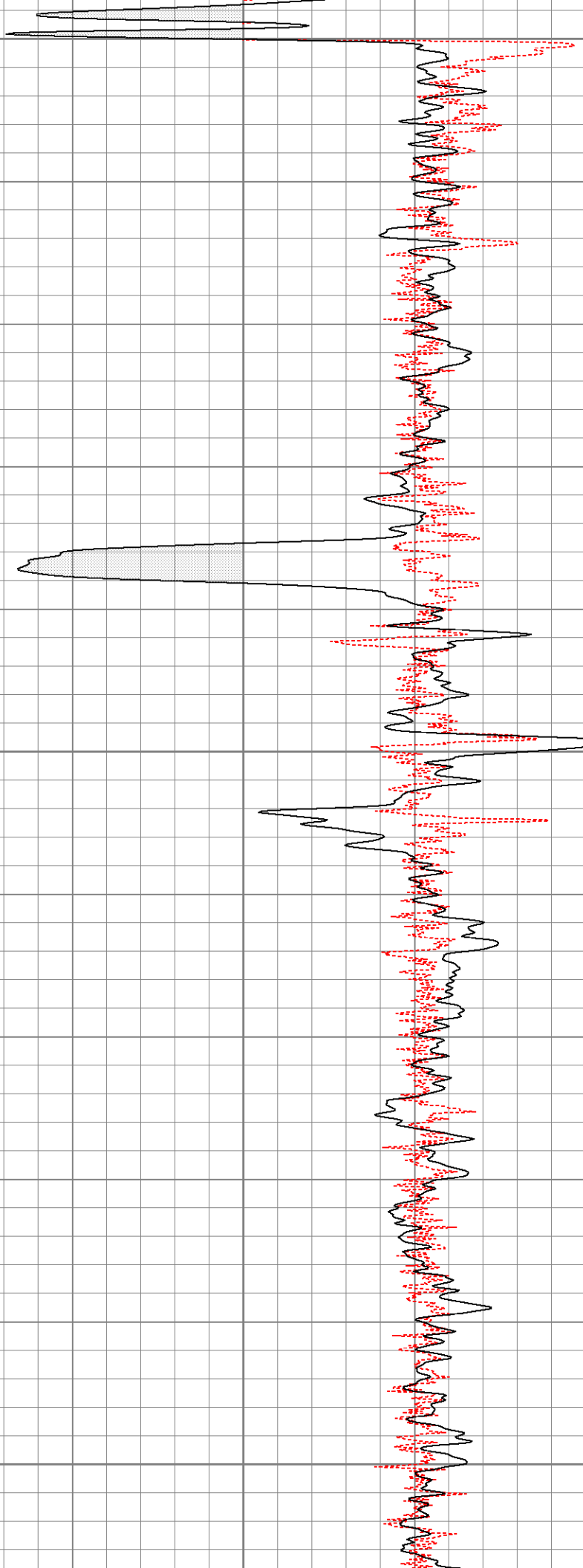
| | | | | | | |
|---|-----------|-----|---|-------------|-------------|-----|
| 0 | GR (GAPI) | 200 | 1 | RHOB (g/cc) | | 3 |
| 6 | DCAL (in) | 16 | | -0.5 | RHOC (g/cc) | 0.5 |

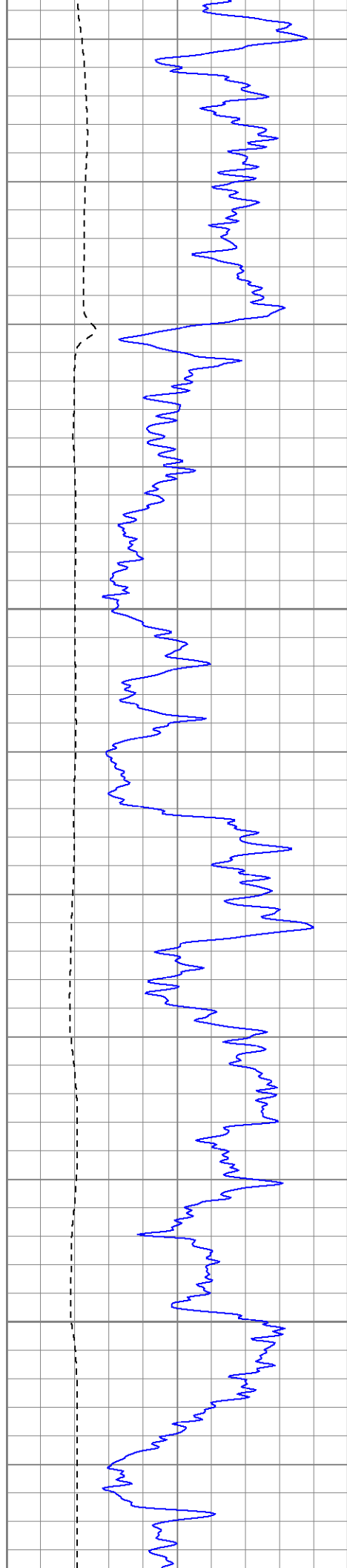


400

450

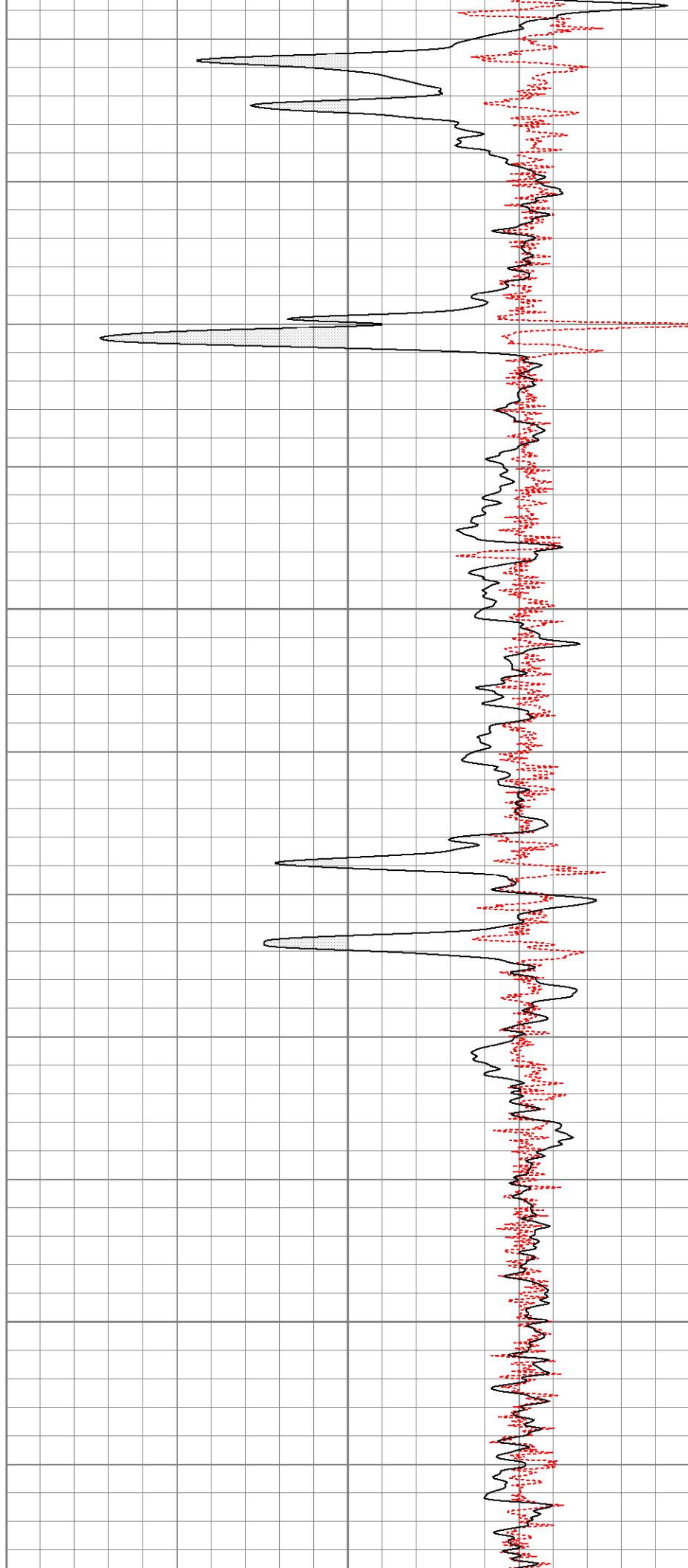
500

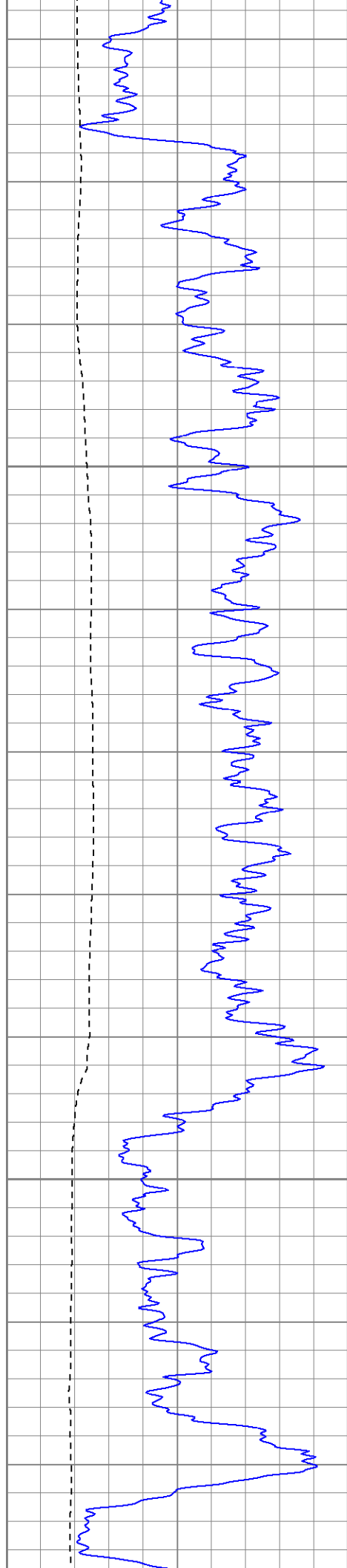




550

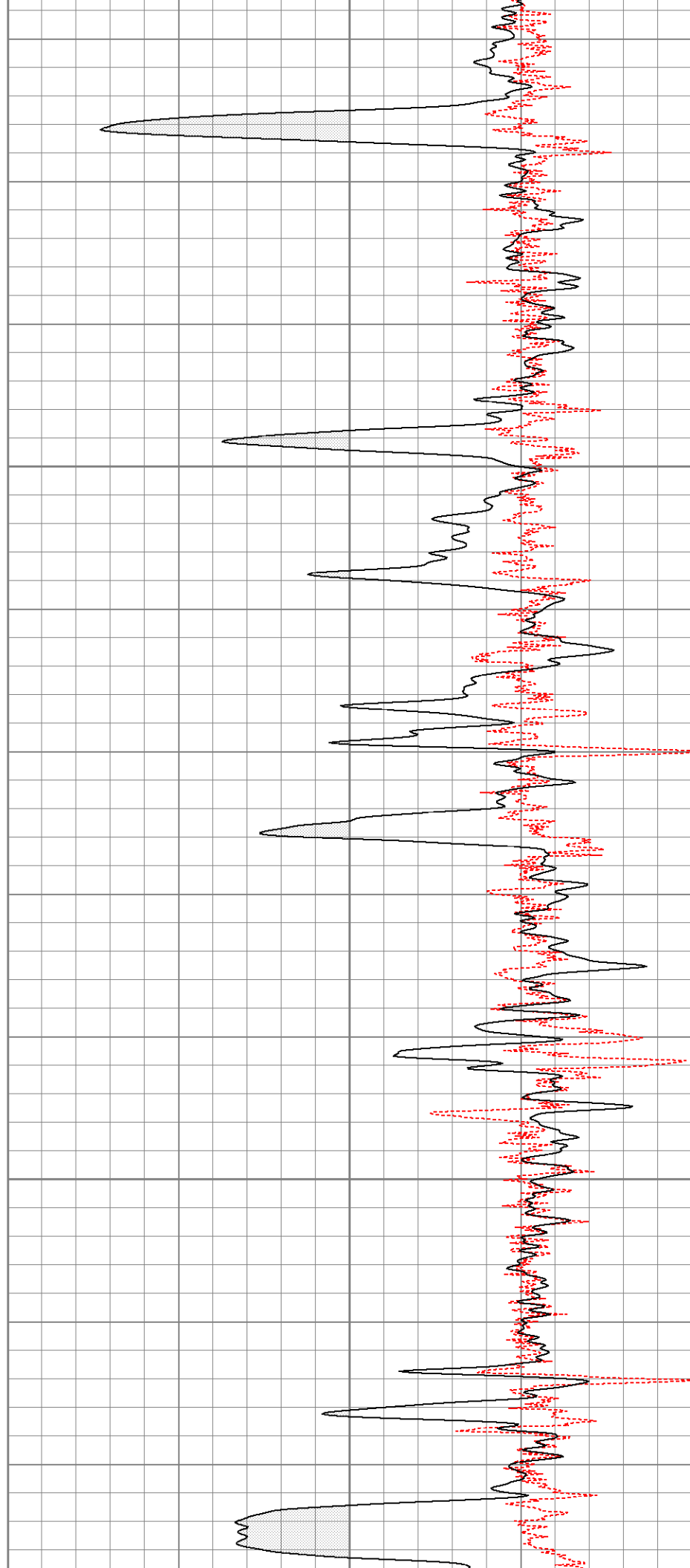
600

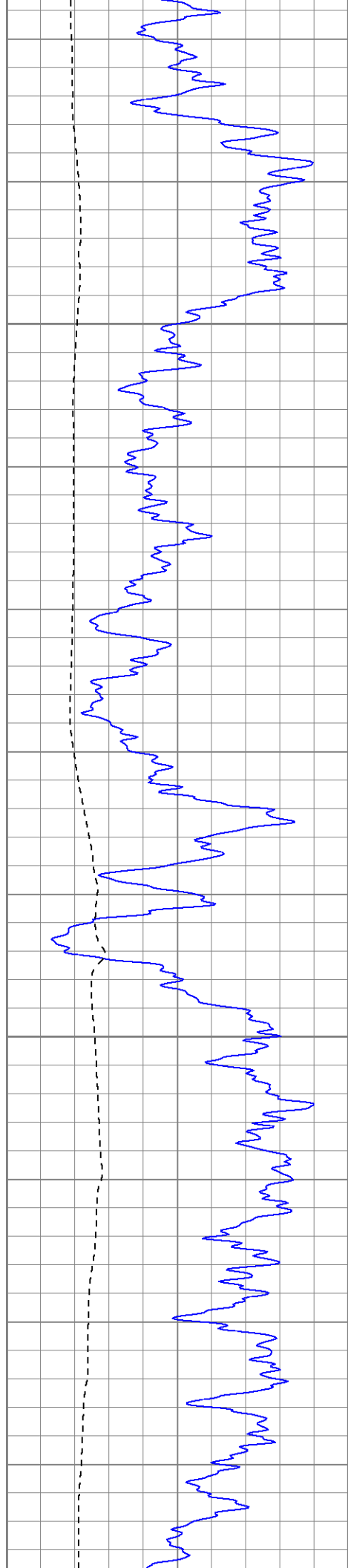




650

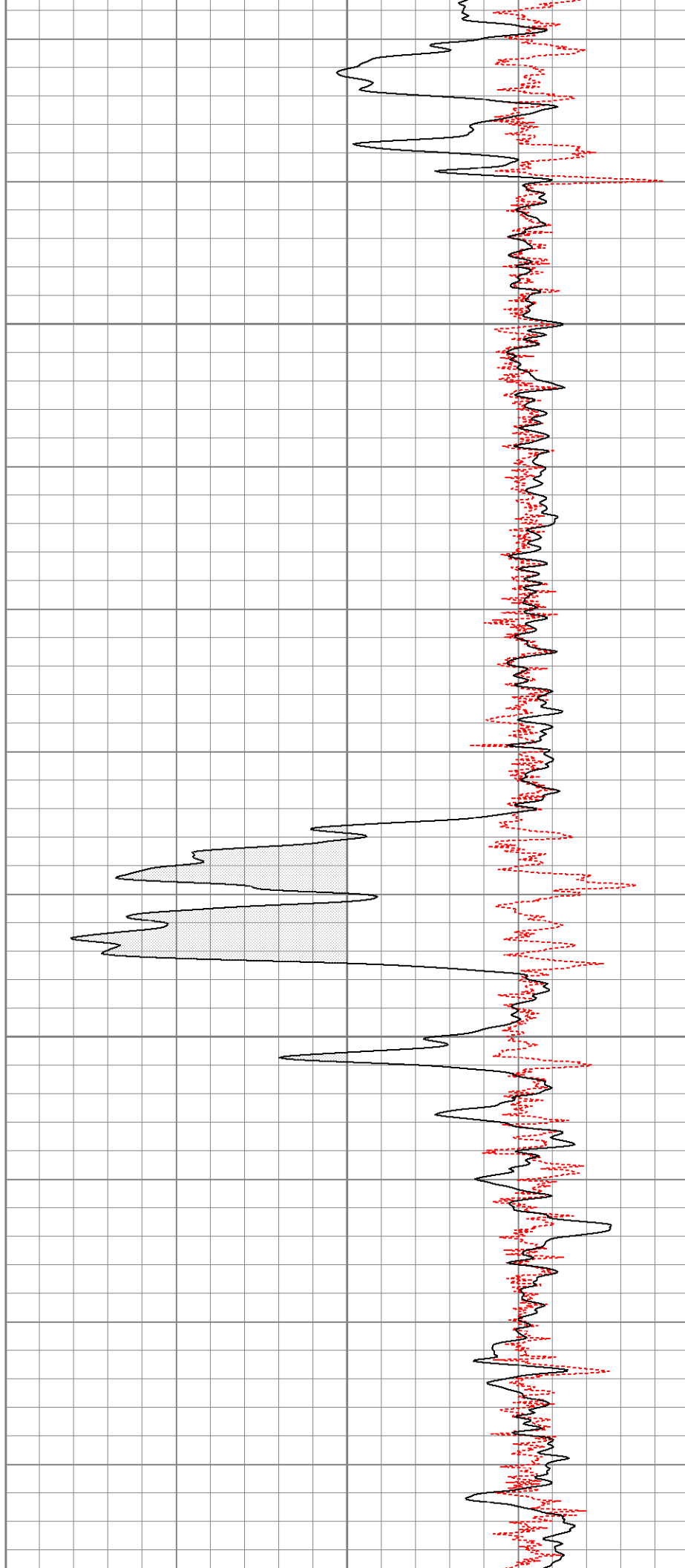
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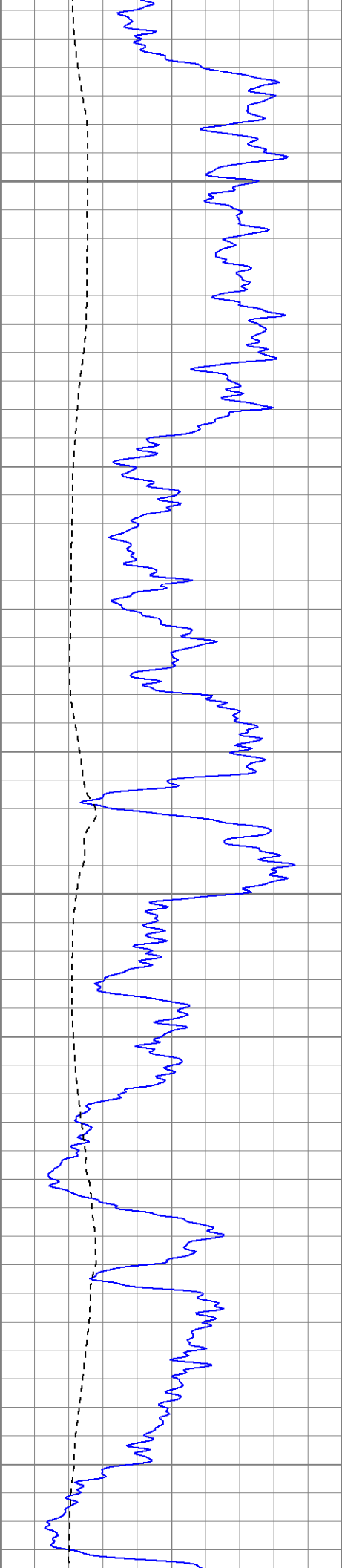




750

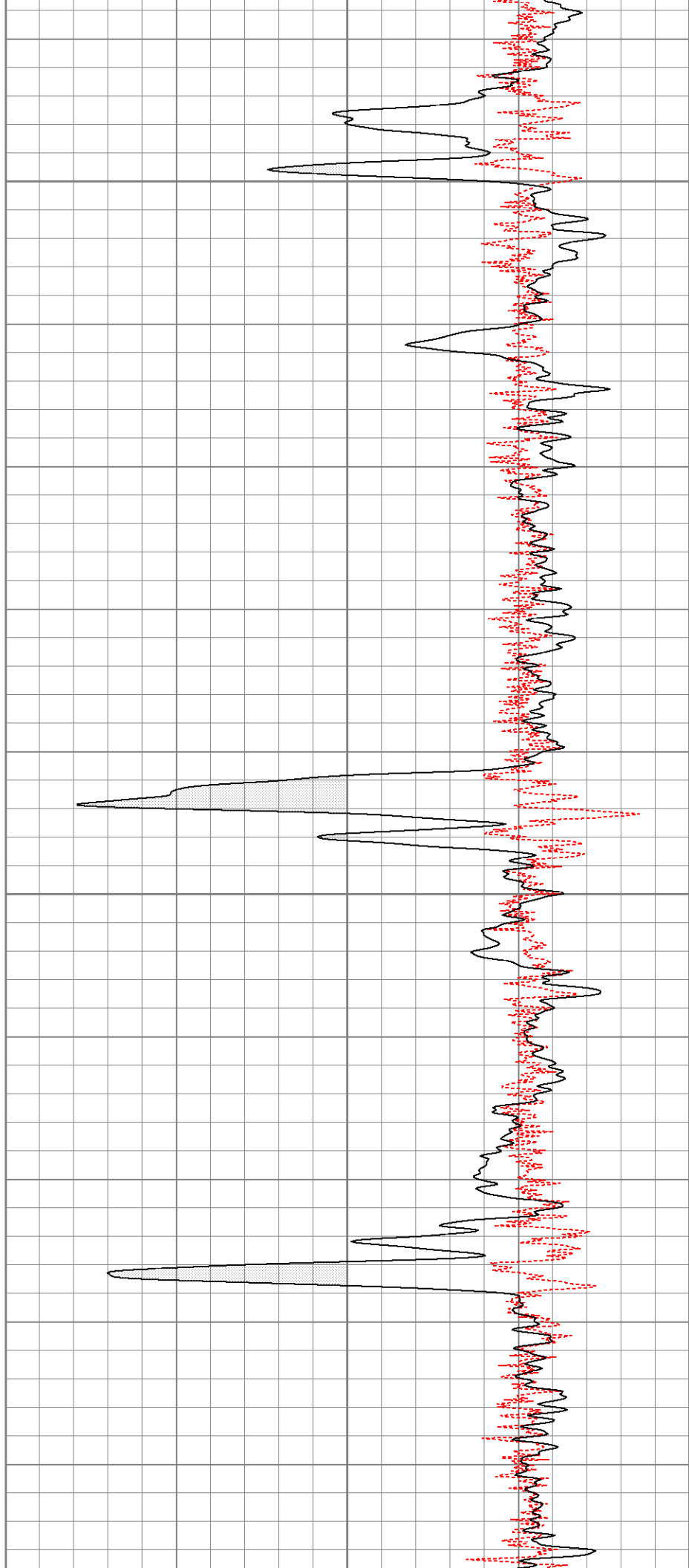
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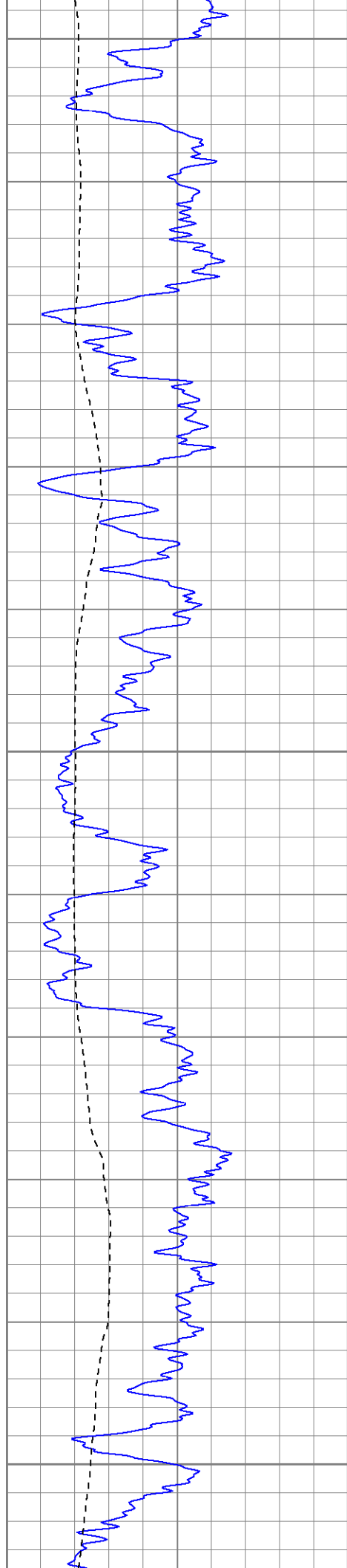




850

900

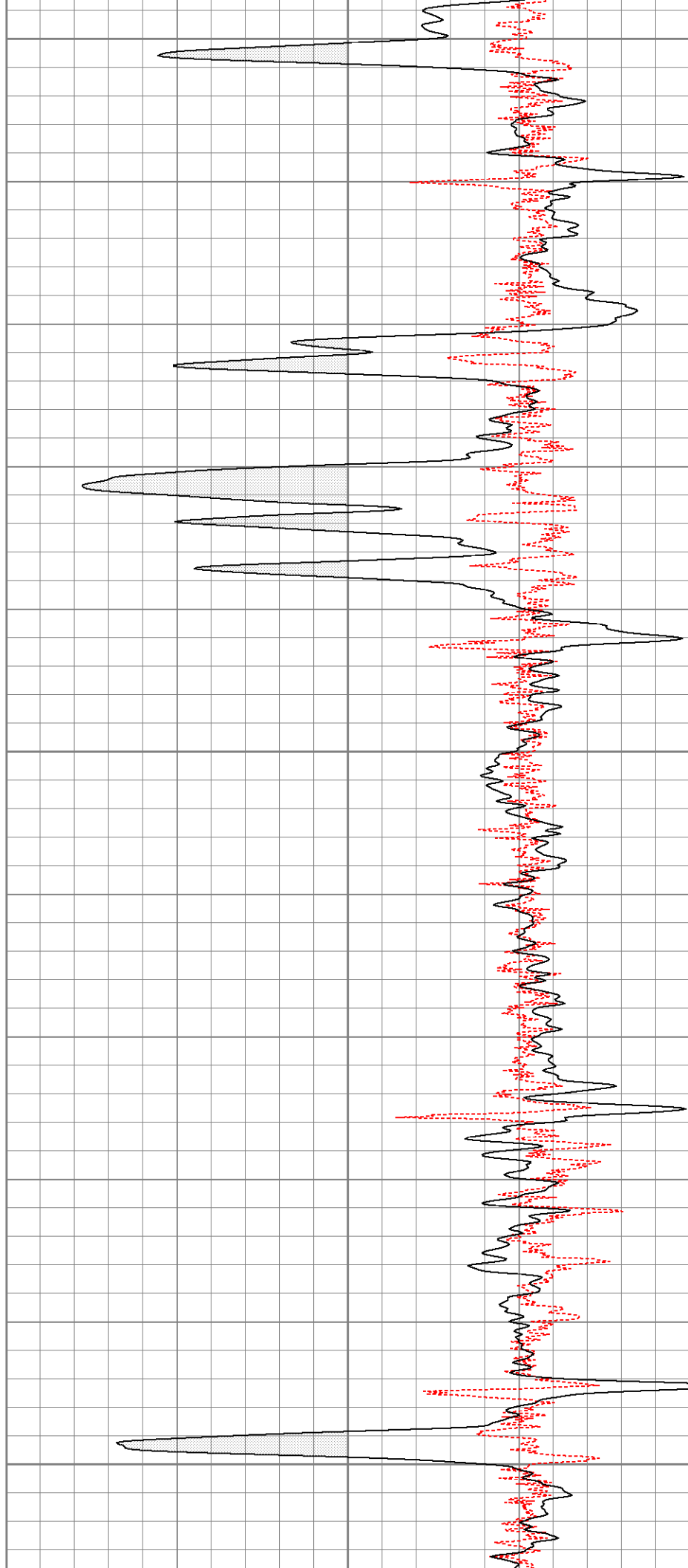


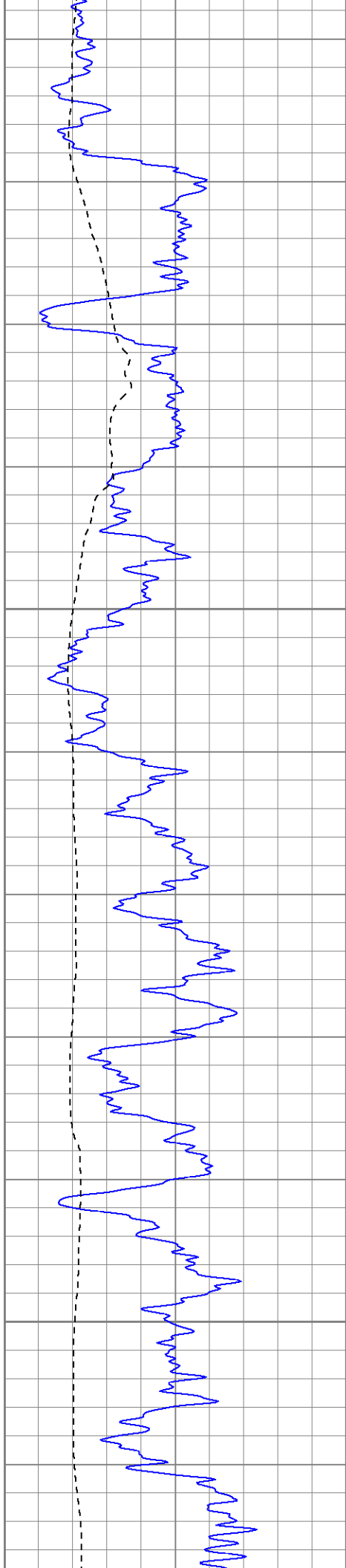


950

1000

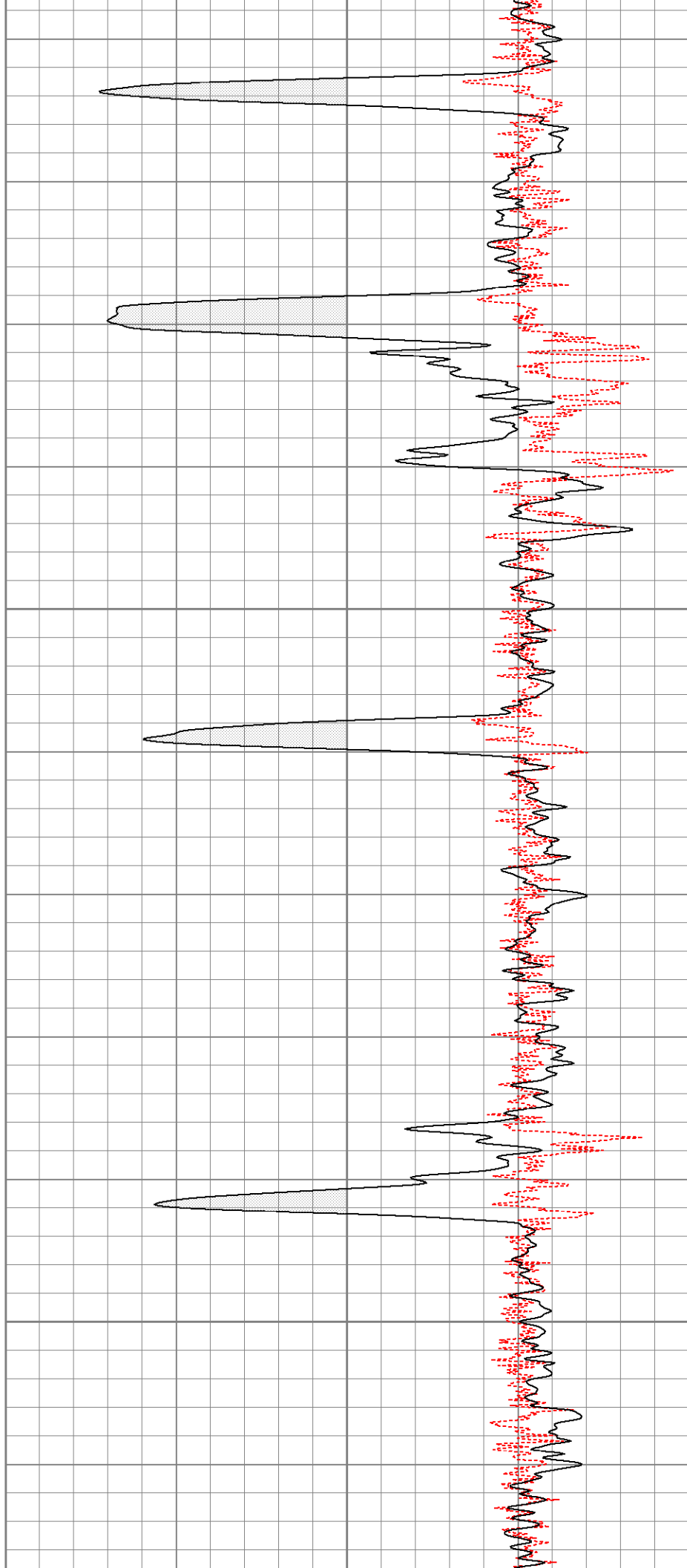
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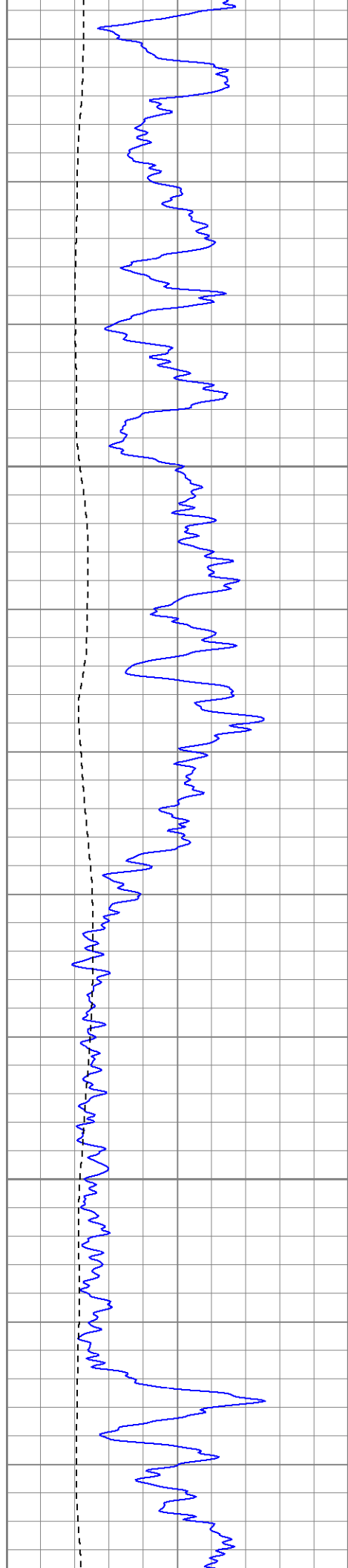




1100

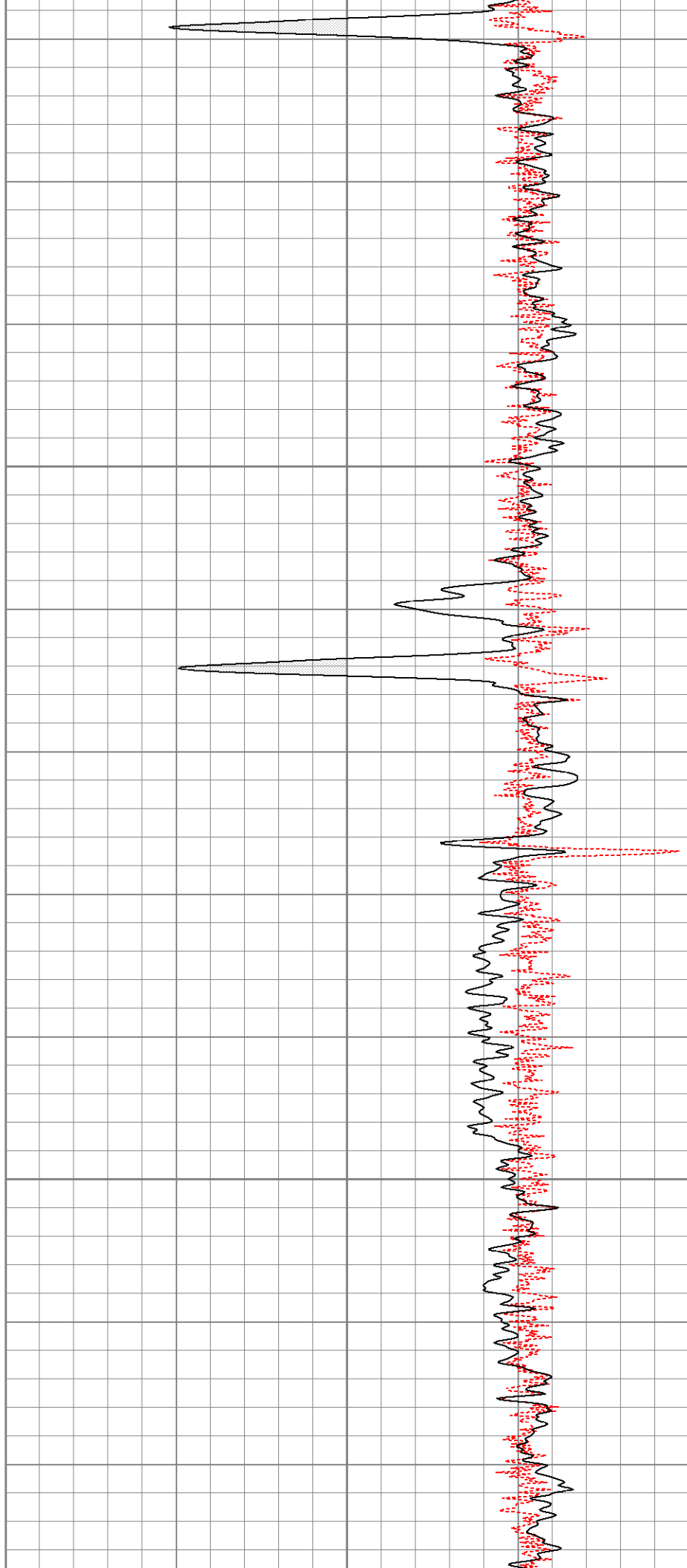
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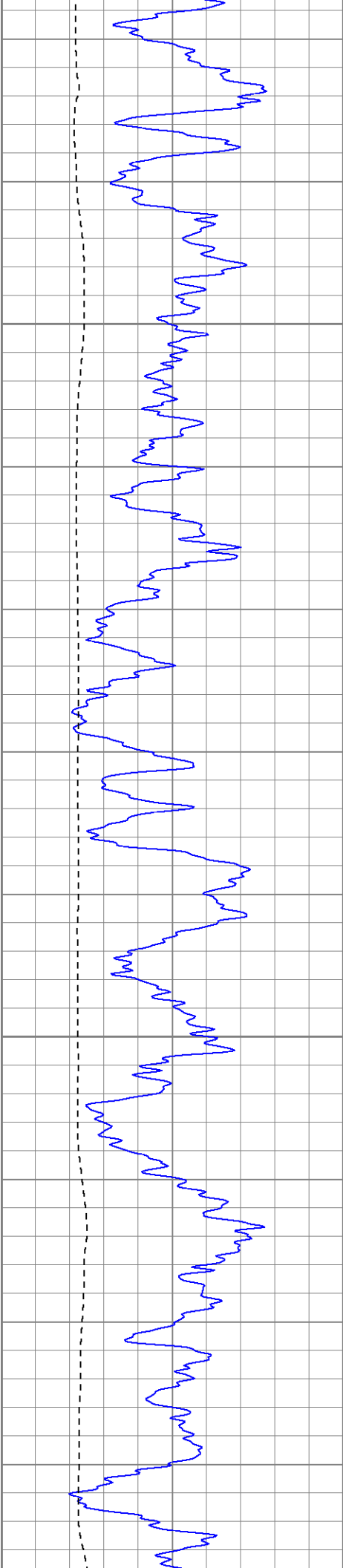




1200

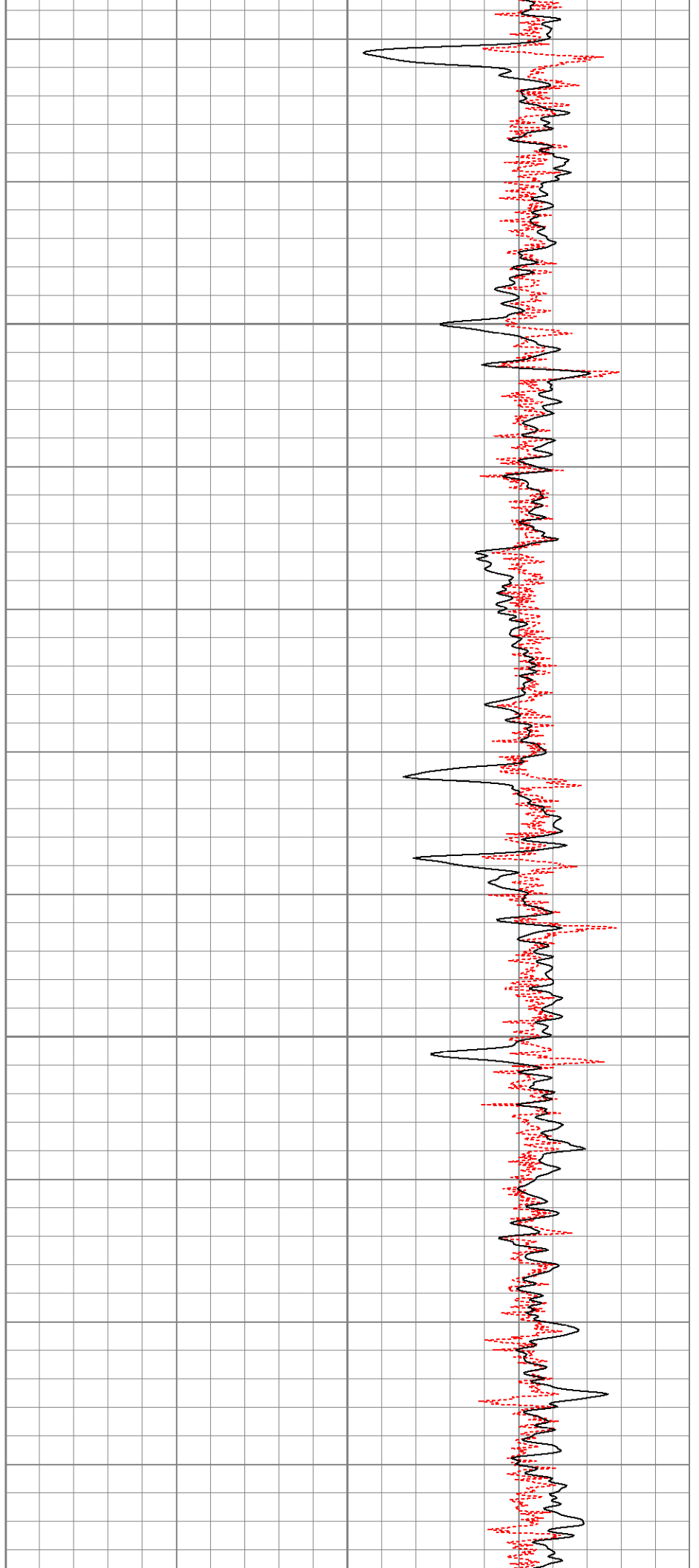
1250

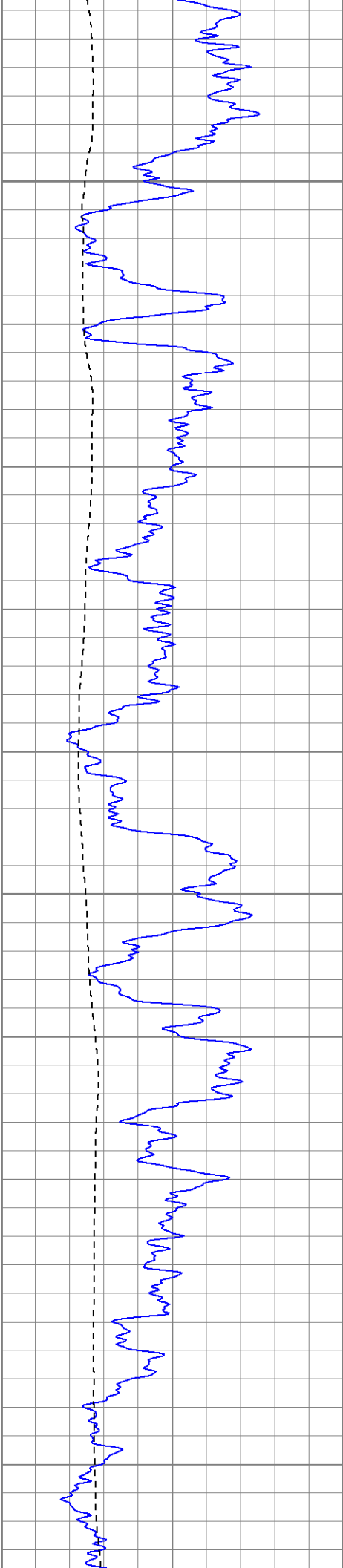




1300

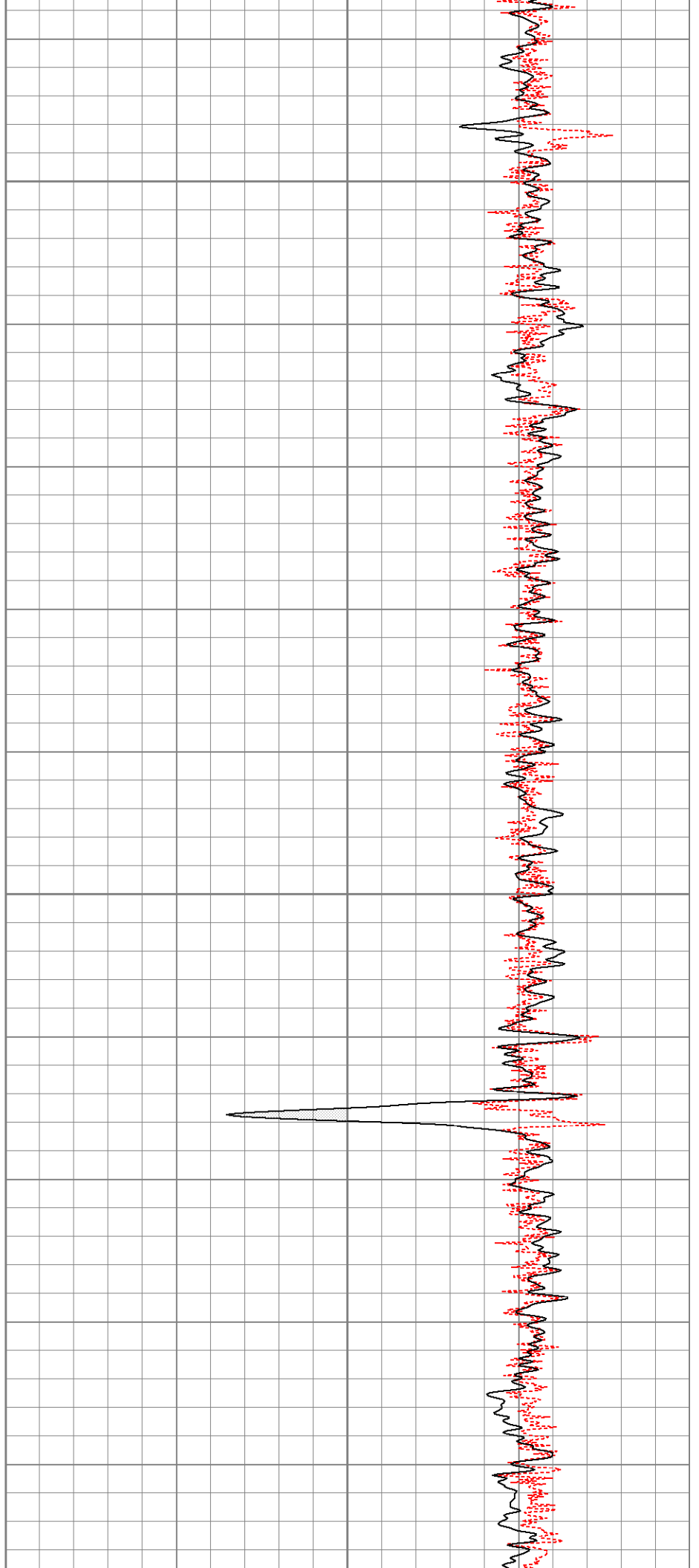
1350

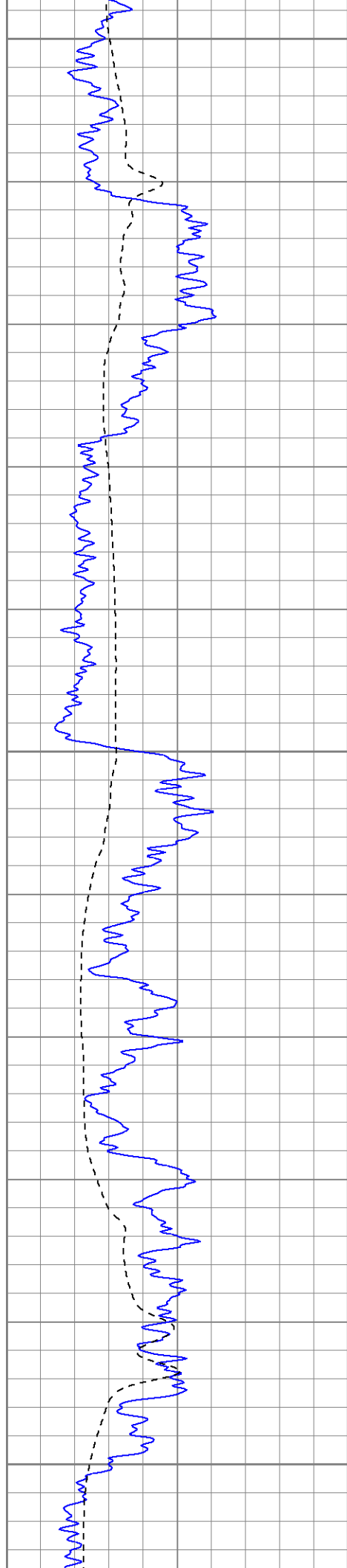




1400

1450

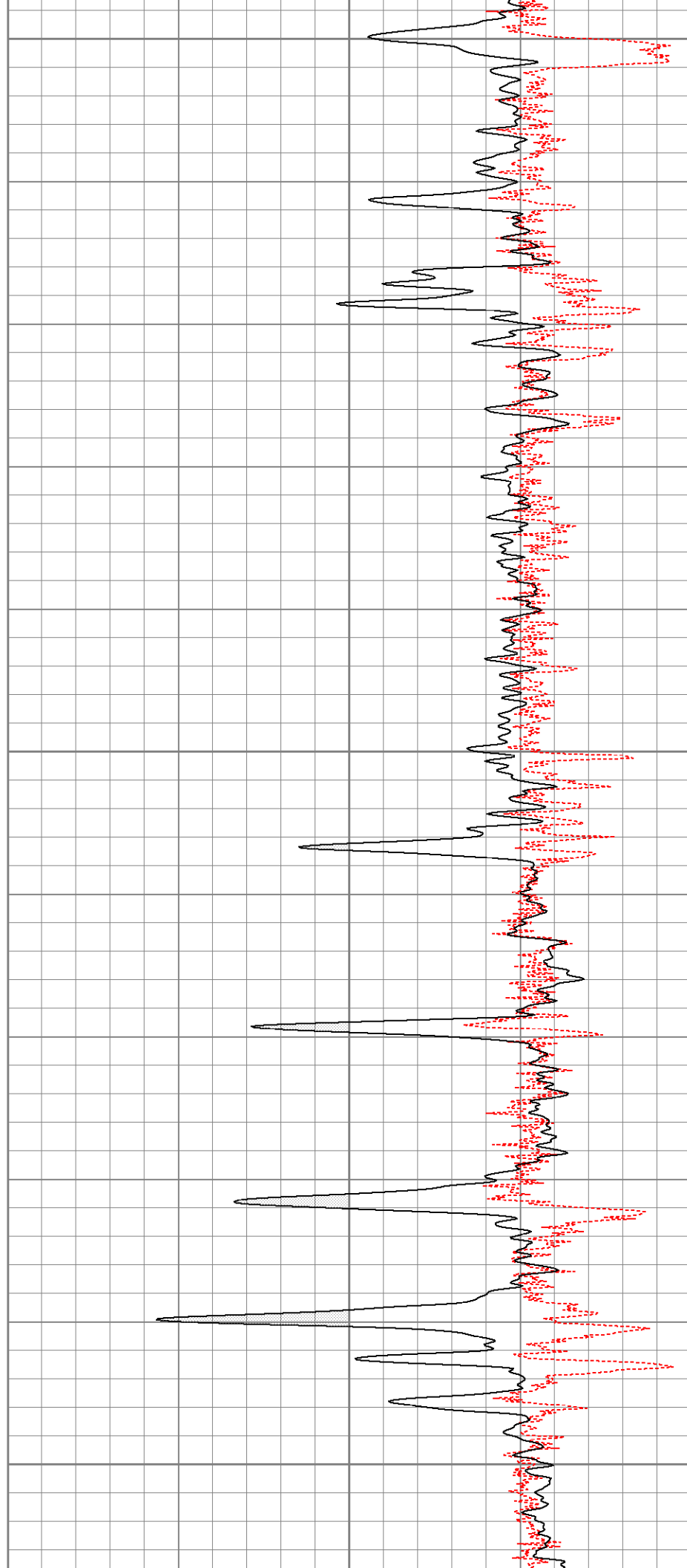


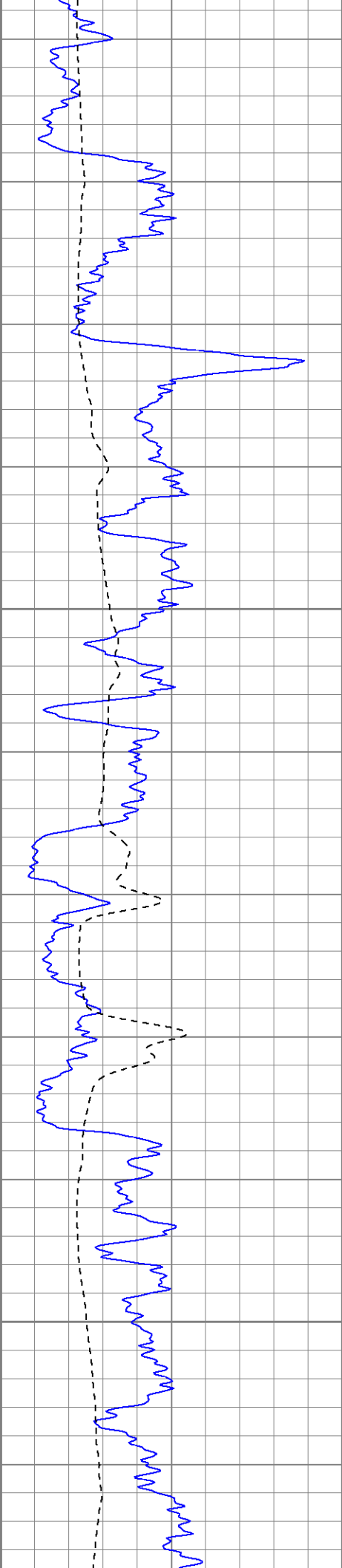


1500

1550

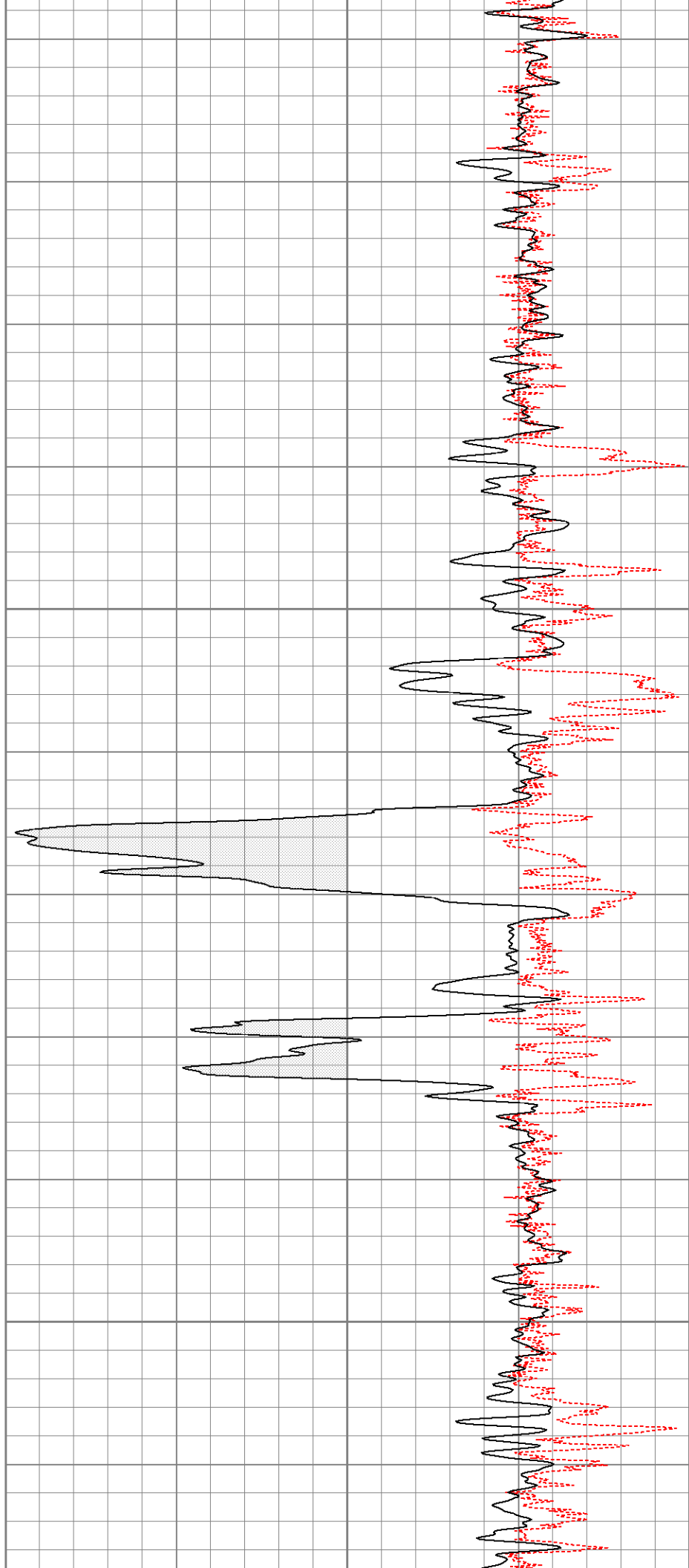
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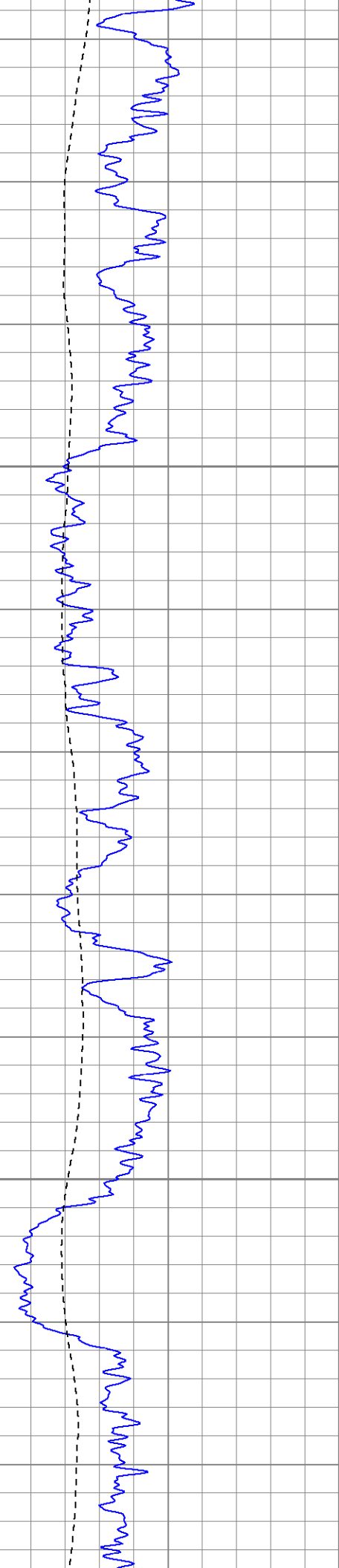




1650

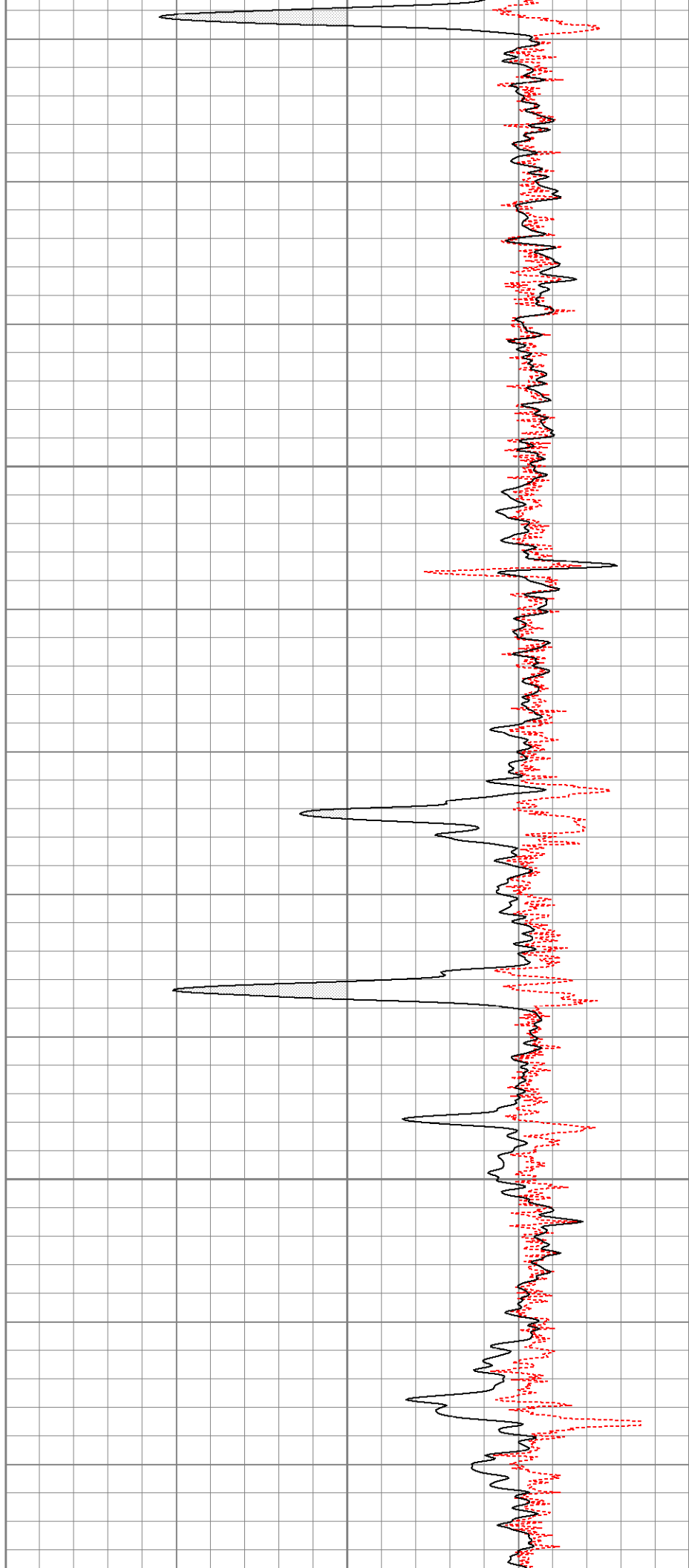
1700

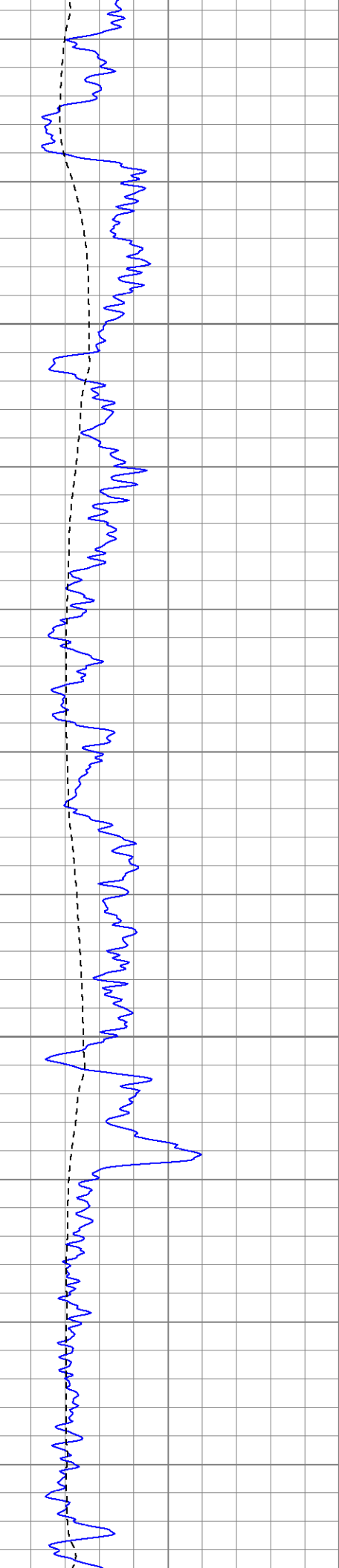




1750

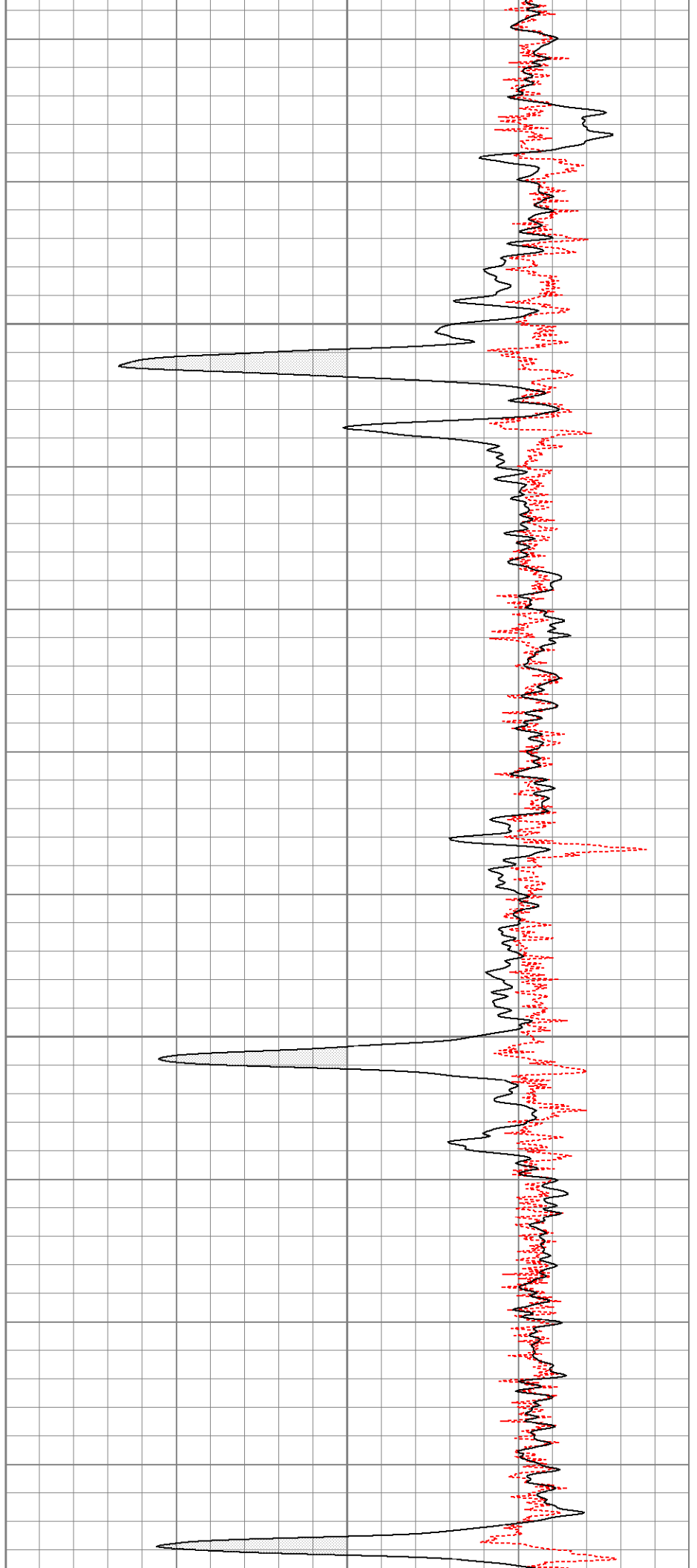
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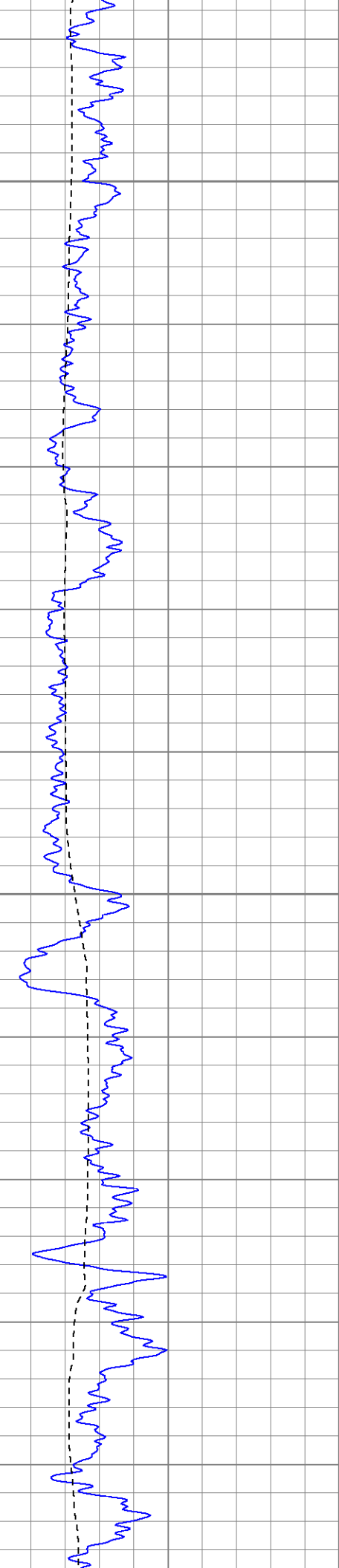




1850

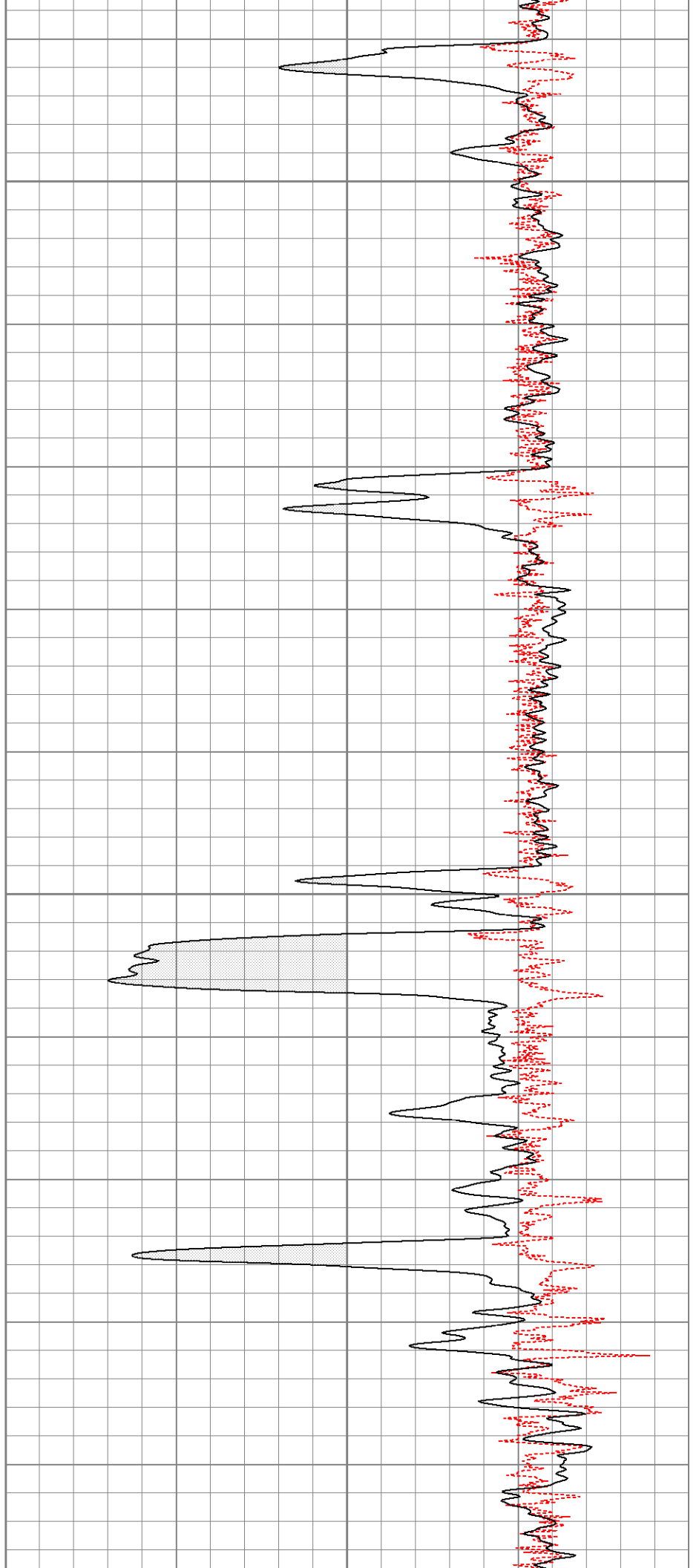
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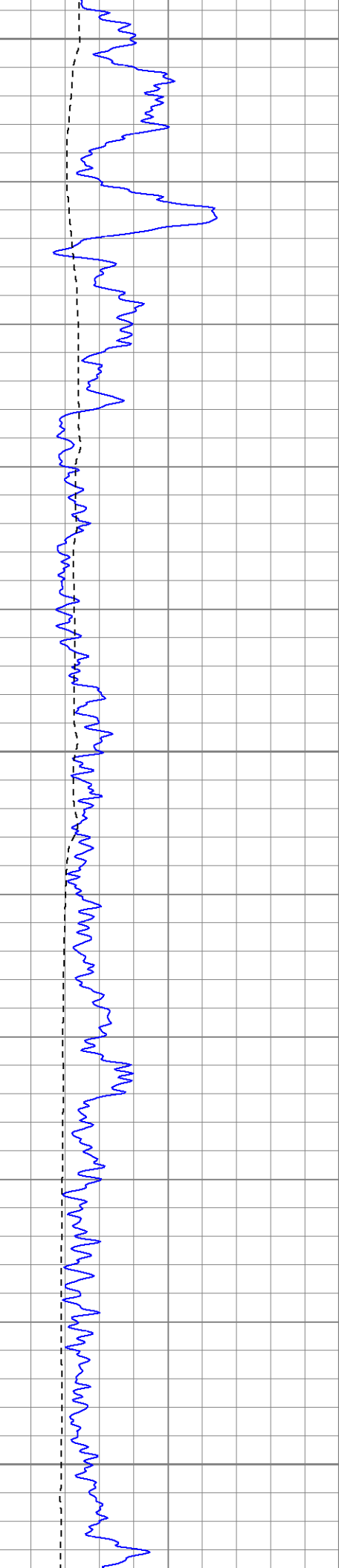




1950

2000

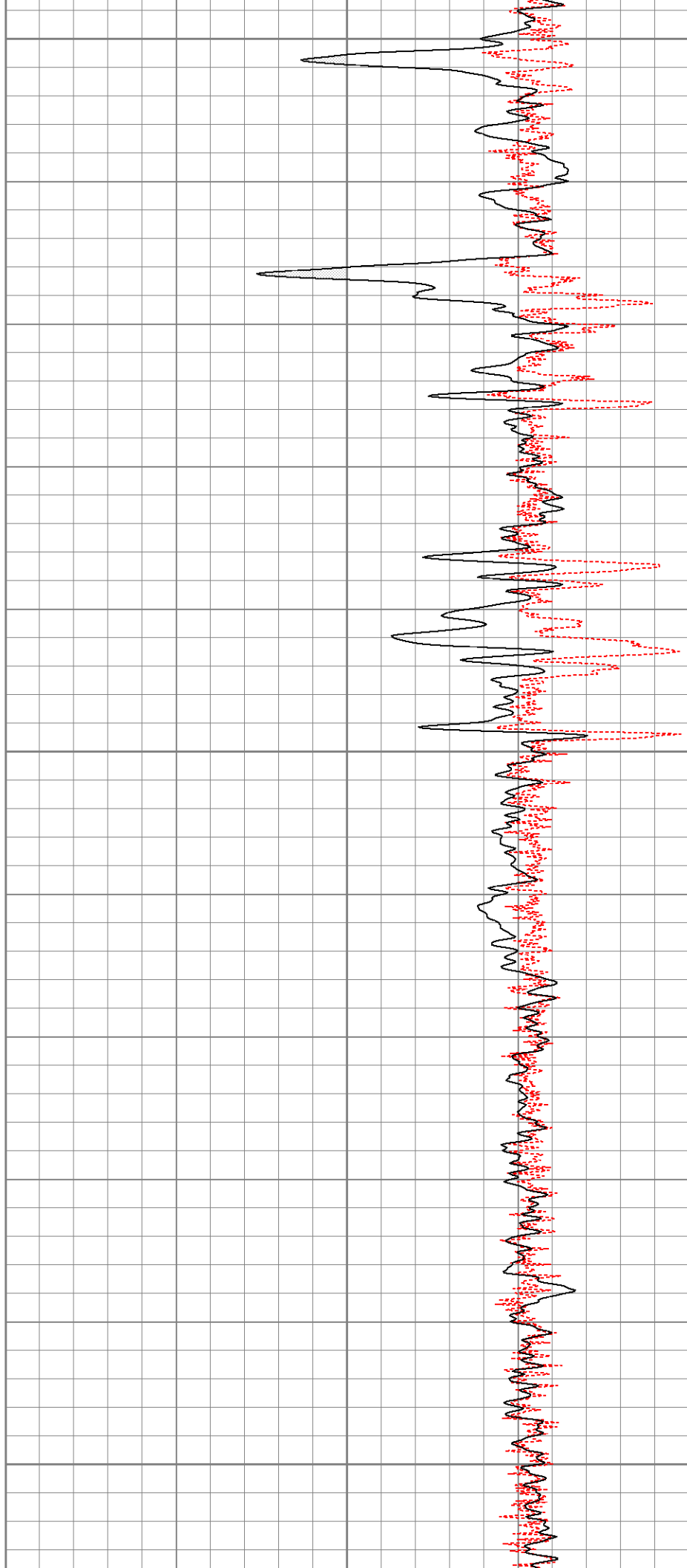


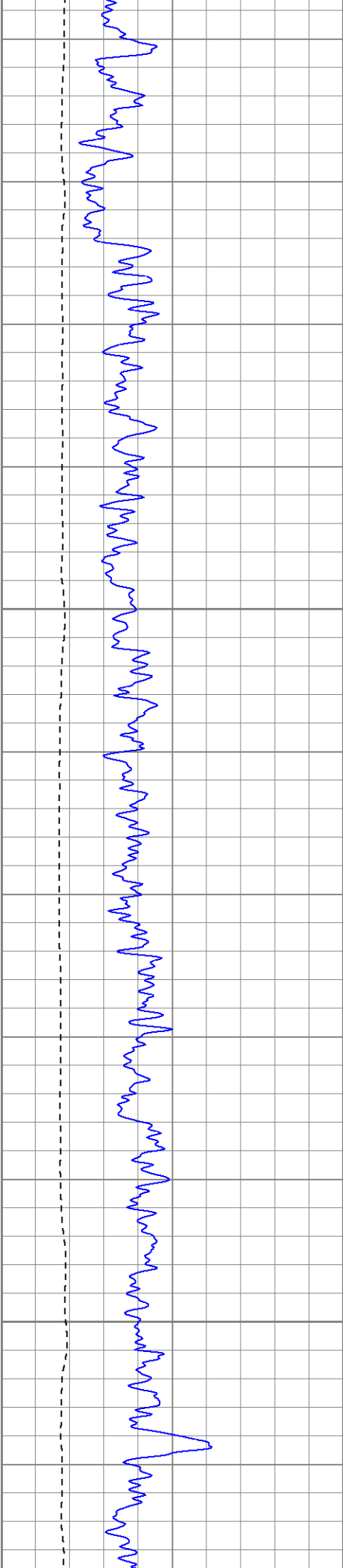


2050

2100

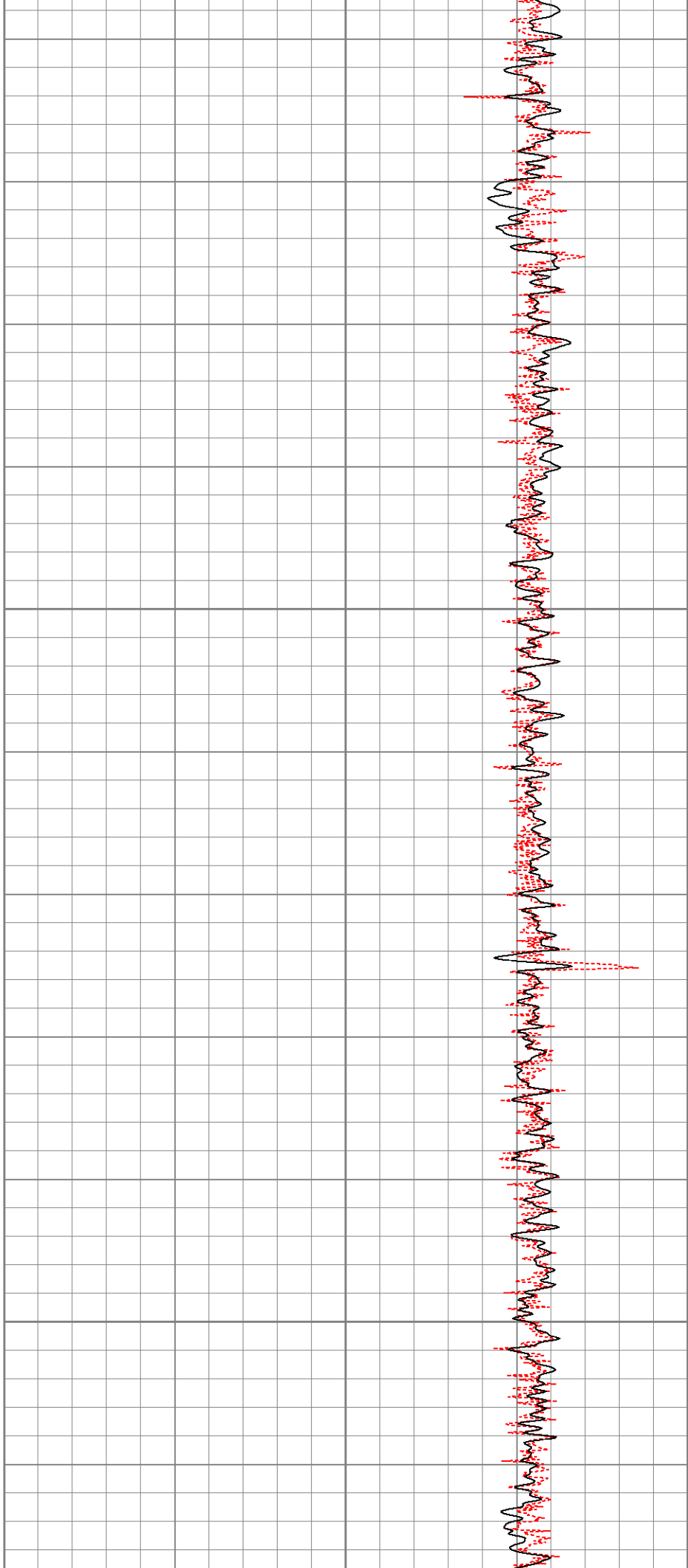
2150

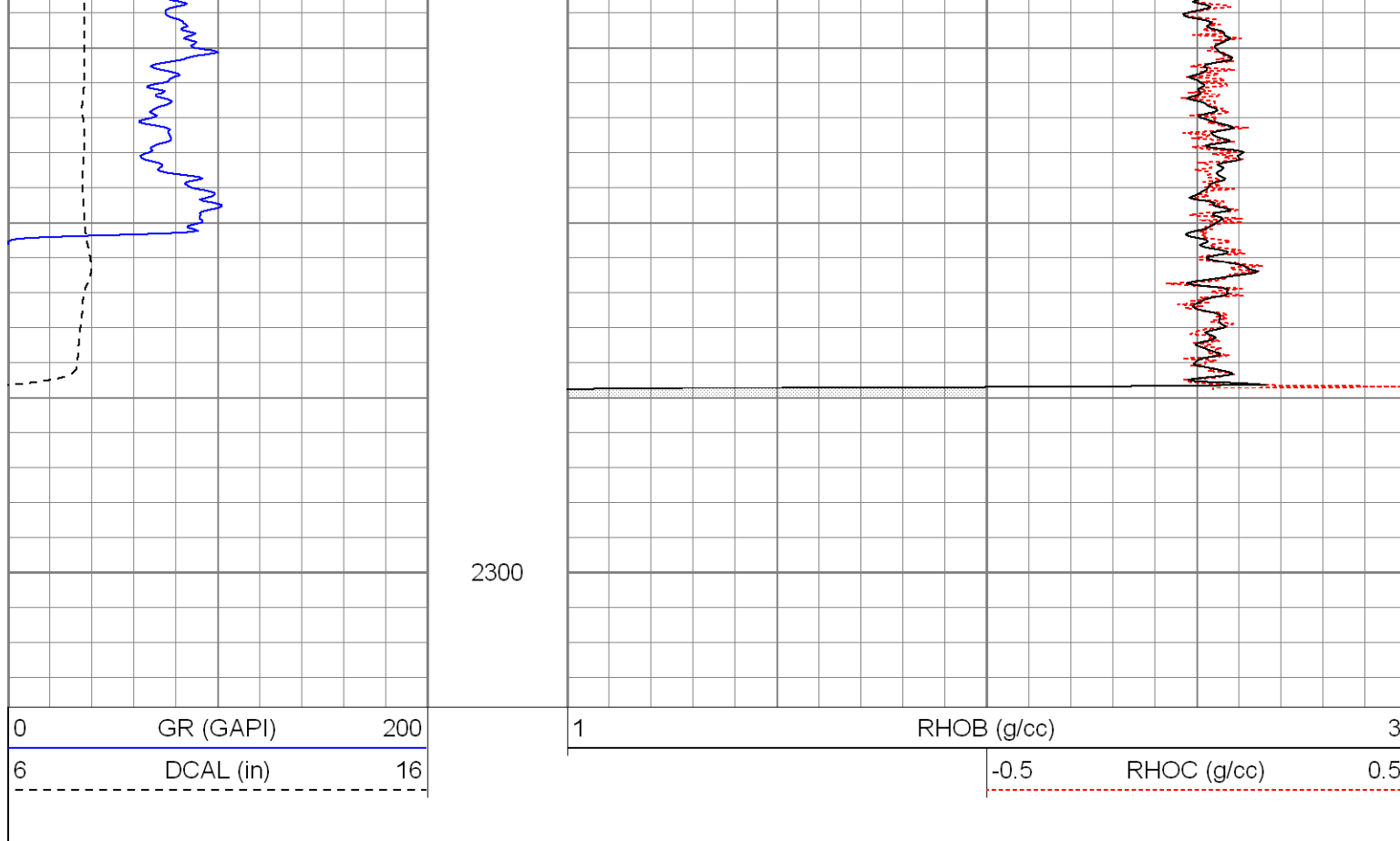




2200

2250





Calibration Report

Database File: islanderdi.db
 Dataset Pathname: pass3
 Dataset Creation: Mon Dec 21 01:49:38 2009 by Log Open-Cased 071220

Induction Tool Calibration Report

Serial Number: 121
 Tool Model: GL121
 Downhole Cal Performed: Mon Dec 07 06:31:58 2009
 Surface Cal Performed: Fri Dec 04 08:51:07 2009
 After Survey Verification Performed:

| | | | |
|-------------------------|-------|---------|------|
| Surface Calibration: | Air | Loop | |
| Conductivity Reference: | 0.000 | 450.000 | mmho |
| Conductivity Reading: | 0.005 | 0.626 | V |
| Internal Reference: | Zero | Cal | |
| Conductivity Reference: | 0.000 | 500.000 | mmho |
| Conductivity Reading: | 0.009 | 0.631 | V |

| | | | |
|-------------------------|---------------|--------------|-------|
| Downhole Calibration: | Internal Zero | Internal Cal | |
| Conductivity Reference: | 3.282 | 453.999 | mmho |
| Conductivity Reading: | -1.663 | 456.644 | V |
| Short Normal Reference: | 0.000 | 17.000 | Ohm-m |
| Short Normal Reading: | 0.016 | 0.201 | V |

| | | |
|---------------------------|---------|--------|
| Results: | Gain | Offset |
| Loop Conductivity: | 724.756 | -3.402 |
| Downhole Correction: | 0.983 | 4.918 |
| Short Normal Resistivity: | 91.790 | -1.449 |

Compensated Density Calibration Report

Serial-Model: 2501DHT-DHT
 Source / Verifier: /

Master Calibration

| | Density | | Far Detector | Near Detector | |
|---------------------|---------|------|-----------------------------|---------------|-----|
| Magnesium | 1.710 | g/cc | 767.26 | 303.43 | cps |
| Aluminum | 2.590 | g/cc | 171.91 | 210.81 | cps |
| Spine Angle = 76.32 | | | Density/Spine Ratio = 0.572 | | |
| | Size | | Reading | | |
| Small Ring | 8.00 | in | 6196.63 | | |
| Large Ring | 14.00 | in | 10494.70 | | |



Gamma Ray Calibration Report


Serial Number: 2001
 Tool Model: OH
 Performed: Fri Dec 04 08:49:38 2009

 Calibrator Value: 1.0 GAPI

 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

 Sensitivity: 0.2500 GAPI/cps

| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|----------|-------------|--|---|----------|---------|---------|
| GR | 26.85 |  | None | 0.75 | 1.50 | 5.00 |
| | | | GR-OH (2001) 2001 | 3.56 | 3.25 | 40.00 |
| | | | CDL-DHT (2501DHT) Digital High Temp CDL Tool | 9.69 | 4.00 | 201.00 |
| LSD | 18.31 |  | IEL-GL121 (121) | 16.00 | 4.00 | 178.00 |
| DCAL | 18.02 | | | | | |
| SSD | 17.77 | | | | | |
| HEADVOLT | 16.00 | | | | | |
| DIC | 6.89 | | | | | |

| | | | | | |
|---|------|---|--|--|--|
| SP | 1.50 |  | | | |
| SN | 1.00 |  | | | |
| <div>Dataset: islanderdi.db: field/well/run1/pass3</div> <div>Total Length: 30.00 ft</div> <div>Total Weight: 424.00 lb</div> <div>O.D. 4.00 in</div> | | | | | |