



COMPENSATED DENSITY LOG

| | | | |
|------------------------------|-------------------------------------------------|----------------|---------------------------|
| Company | Pioneer Natural Resources | Company | Pioneer Natural Resources |
| Well | Lickity Split 43-12 | Well | Lickity Split 43-12 |
| Field | Purgatorie River | Field | Purgatorie River |
| County | Las Animas | County | Las Animas |
| State | CO | State | CO |
| Location: | API # : 05 071 09702 00 1623' FSL & 372' FEL | Other Services | SIL |
| Permanent Datum | SEC 12 TWP 32S RGE 67W | Elevation | |
| Log Measured From | Ground Level | K.B. 7552' | |
| Drilling Measured From | Kelly Bushing 4' Above G.L. | D.F. ----- | |
| | Kelly Bushing | G.L. 7548' | |
| Date | 12/12/09 | | |
| Run Number | one | | |
| Depth Driller | 2800' | | |
| Depth Logger | 2792' | | |
| Bottom Logged Interval | 2790' | | |
| Top Log Interval | 380' | | |
| Casing Driller | 417' | | |
| Casing Logger | 415' | | |
| 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 | 9:00 p.m. | | |
| Time Logger on Bottom | 3:20 a.m. | | |
| Maximum Recorded Temperature | /// | | |
| Equipment Number | 697 | | |
| Location | Trinidad | | |
| Recorded By | Worley | | |
| Witnessed By | Mr. Vigil | | |

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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.

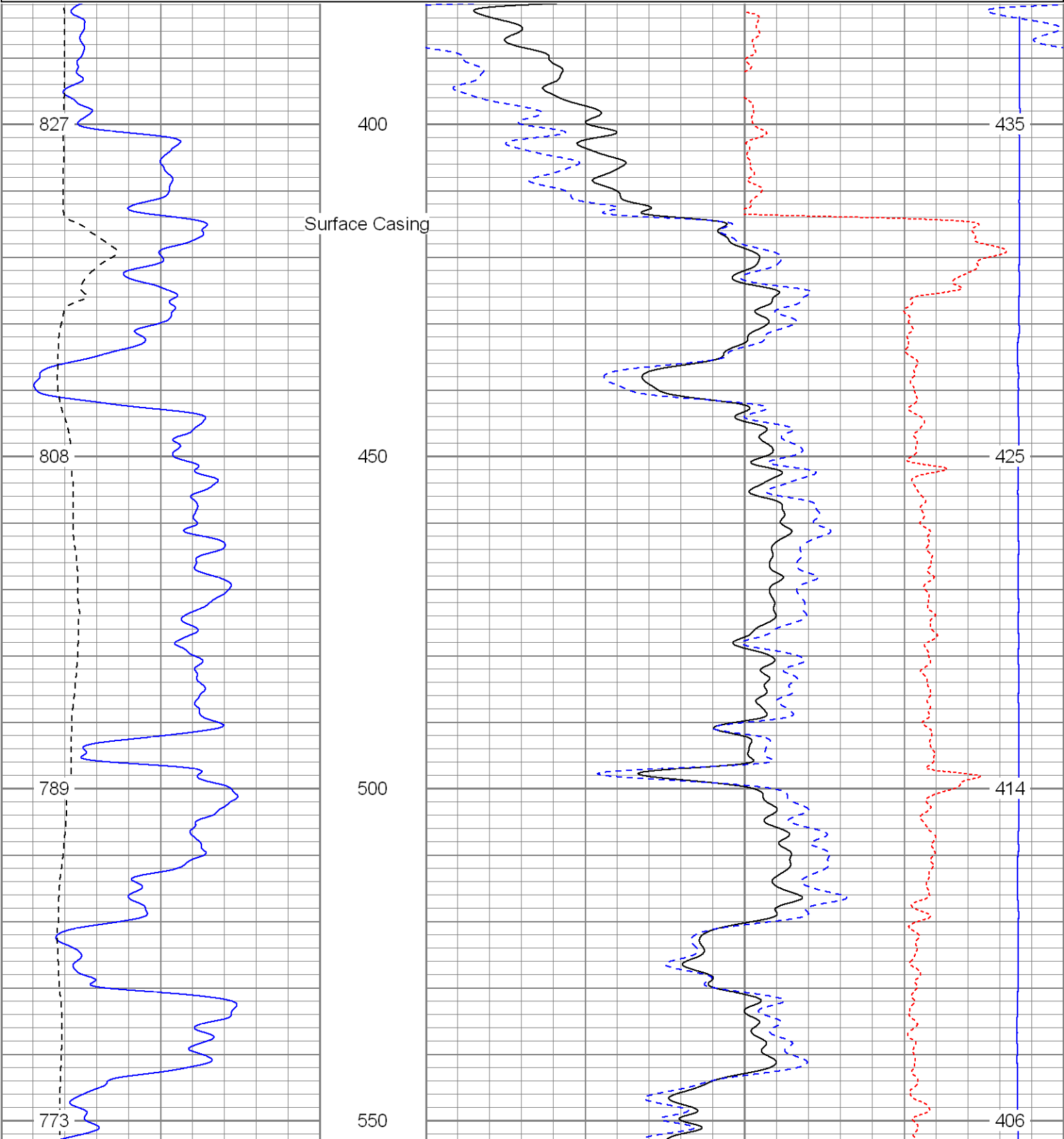
Comments

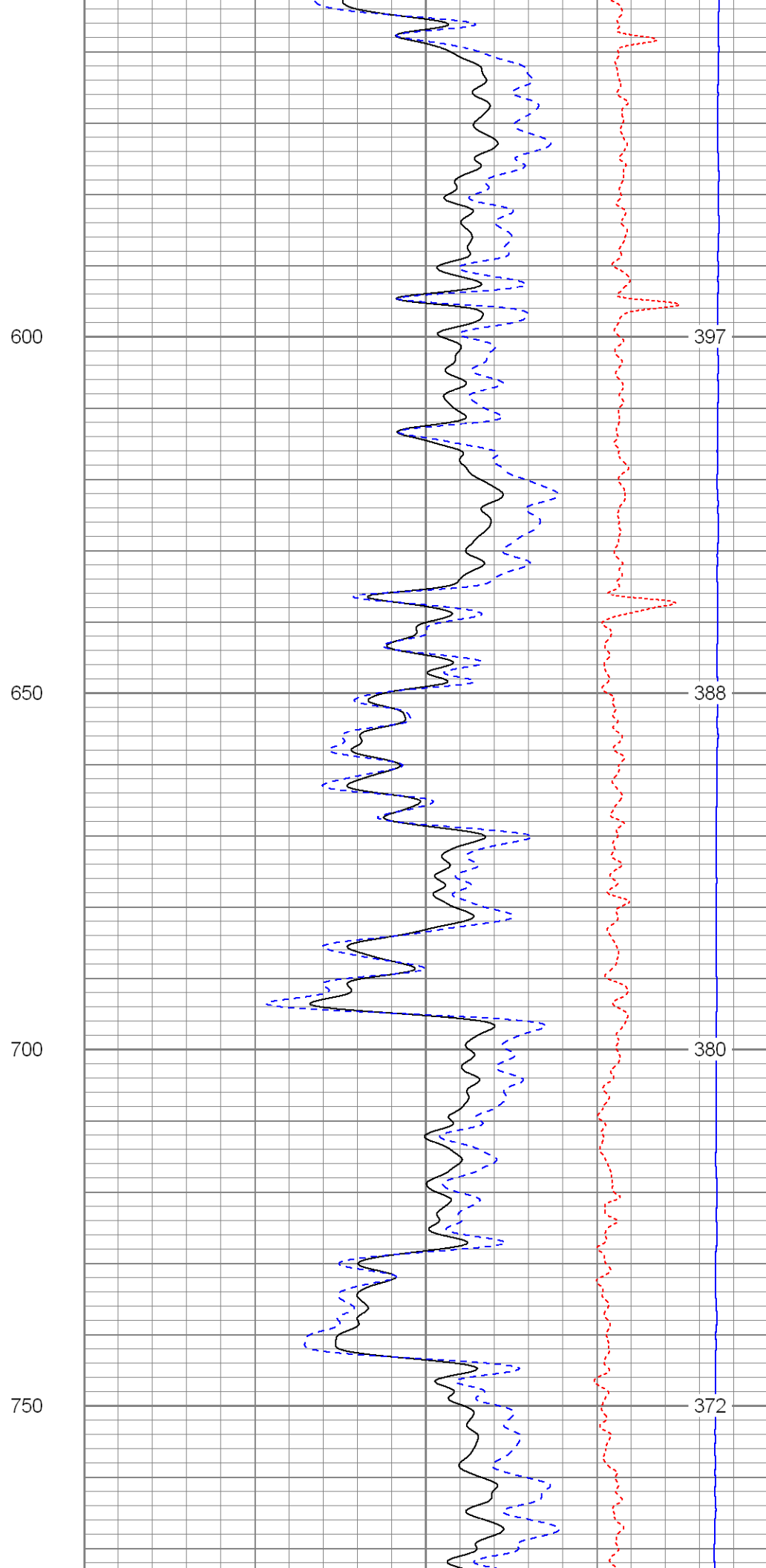
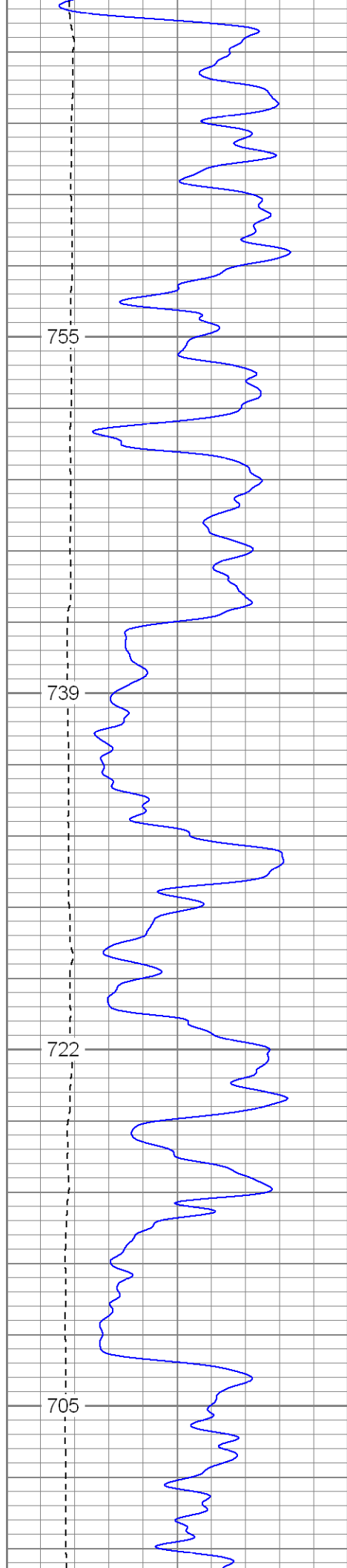
I-25 to Aguilar, go past gravel pit to Sarcillo cut off, go left, second left off county road, stay left to location.

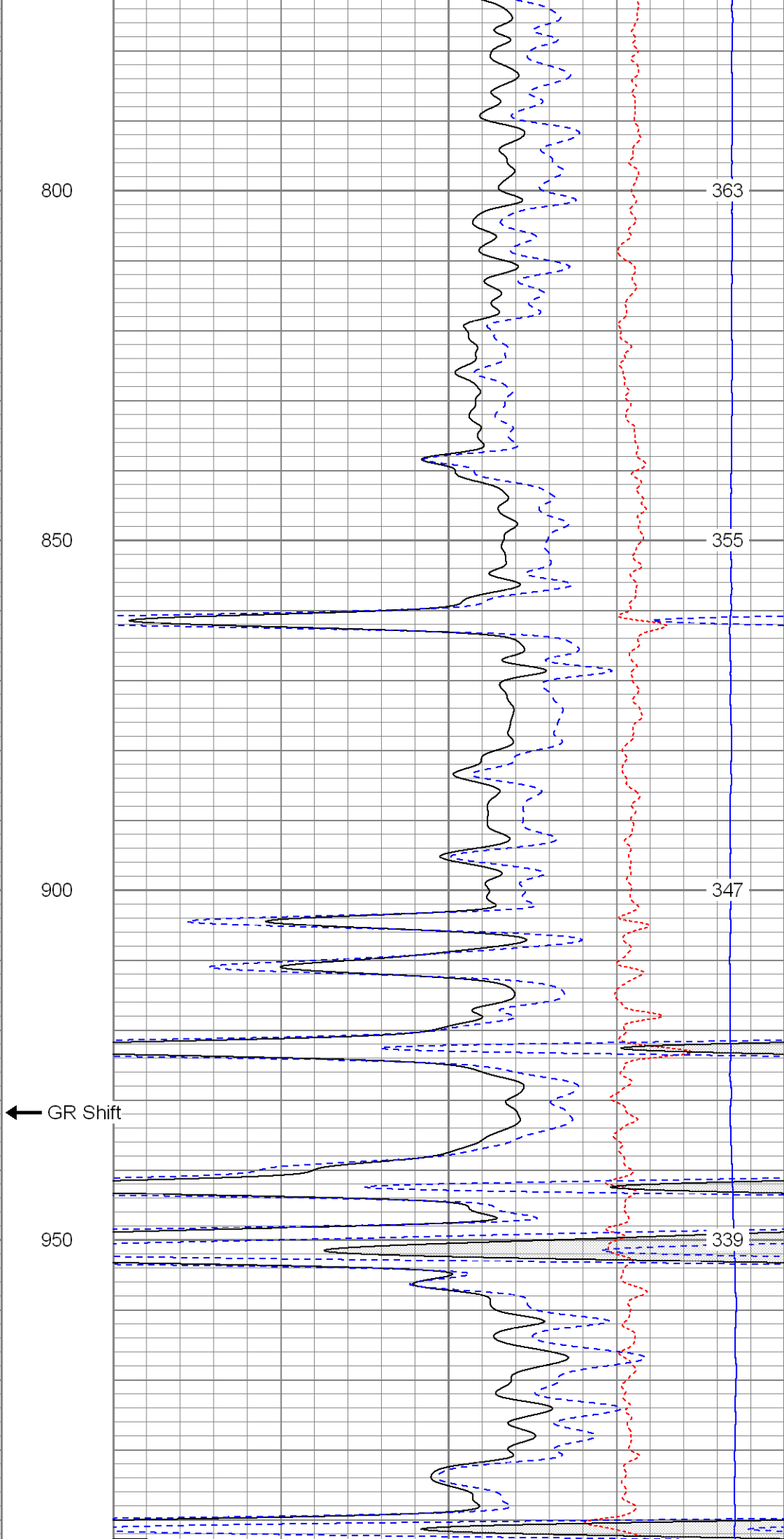
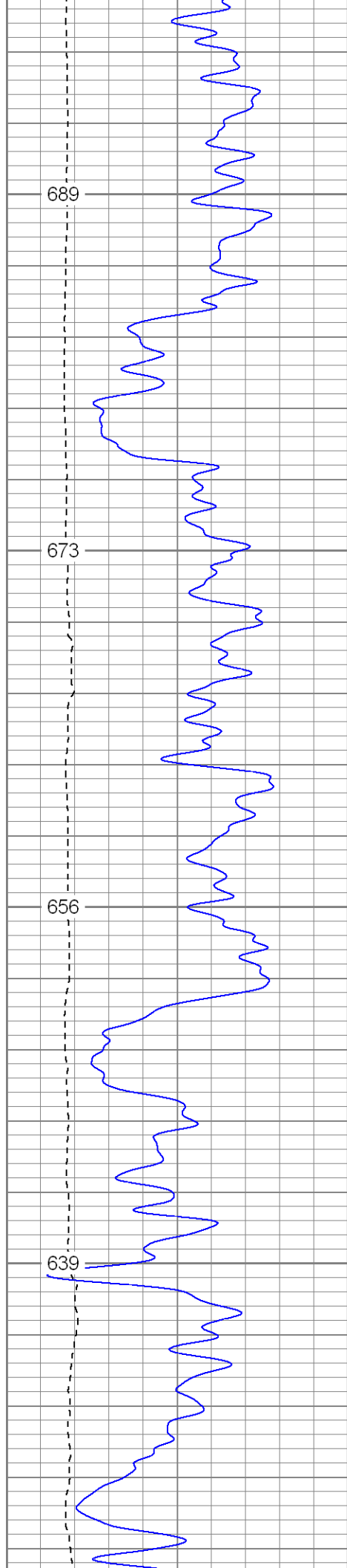


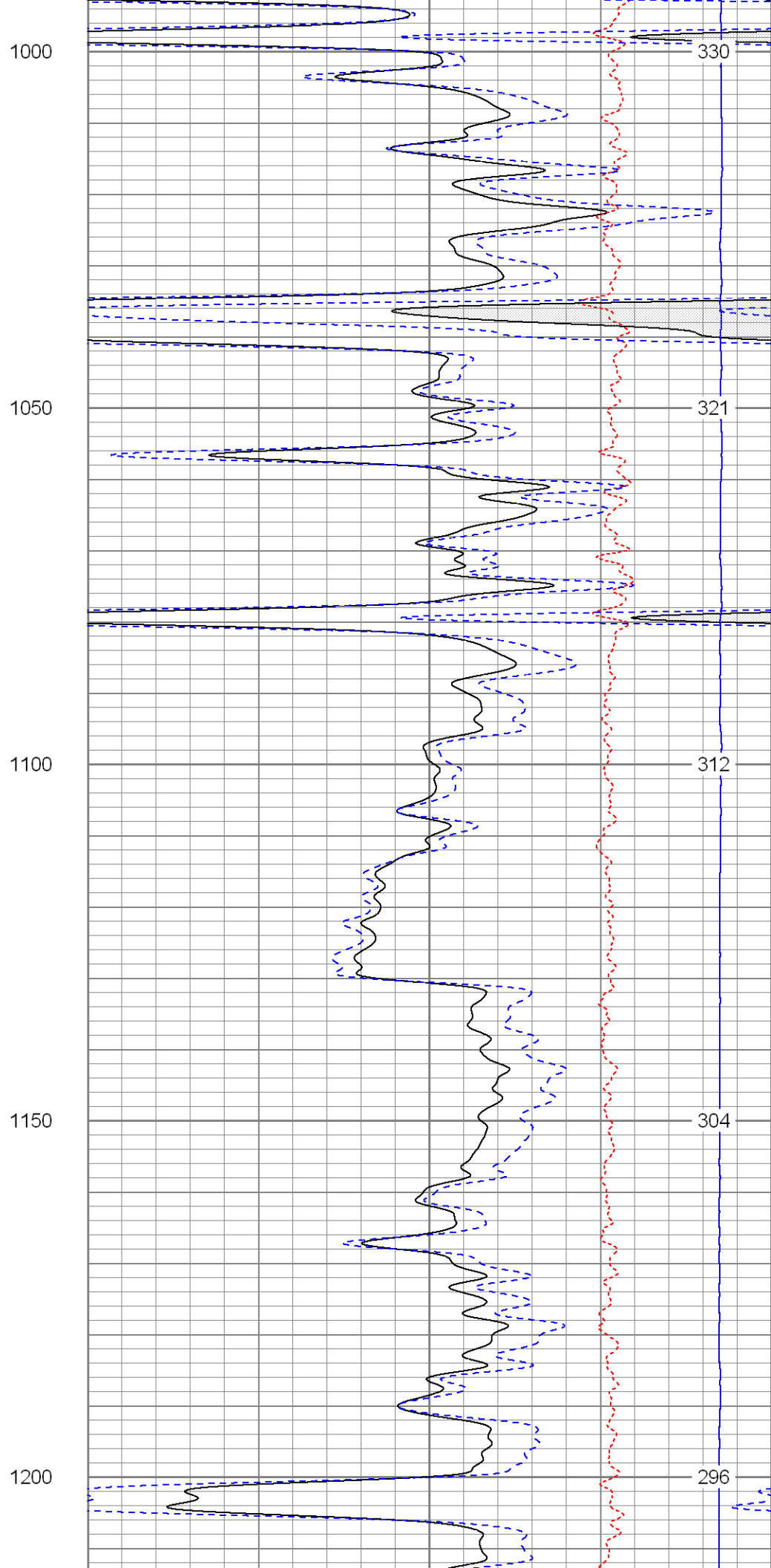
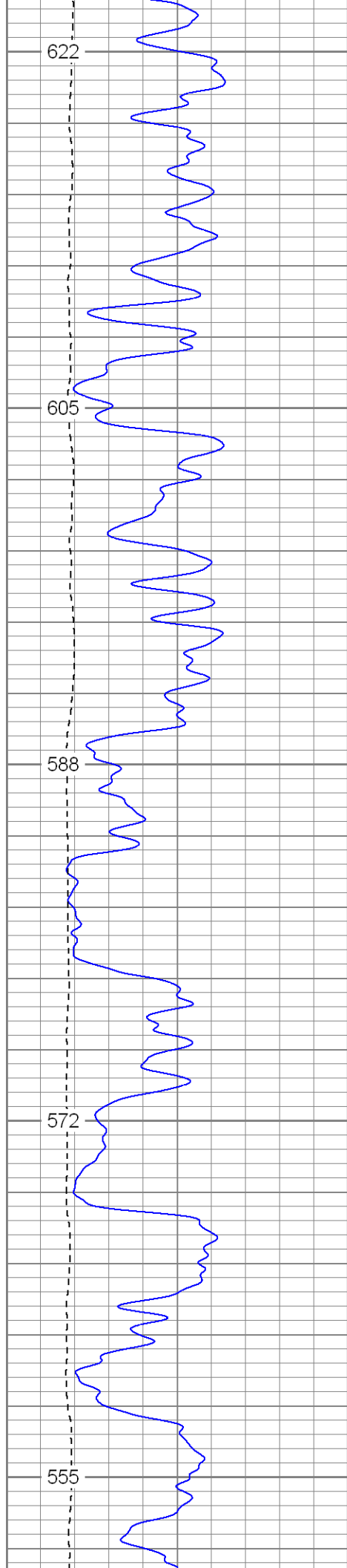
Main Pass

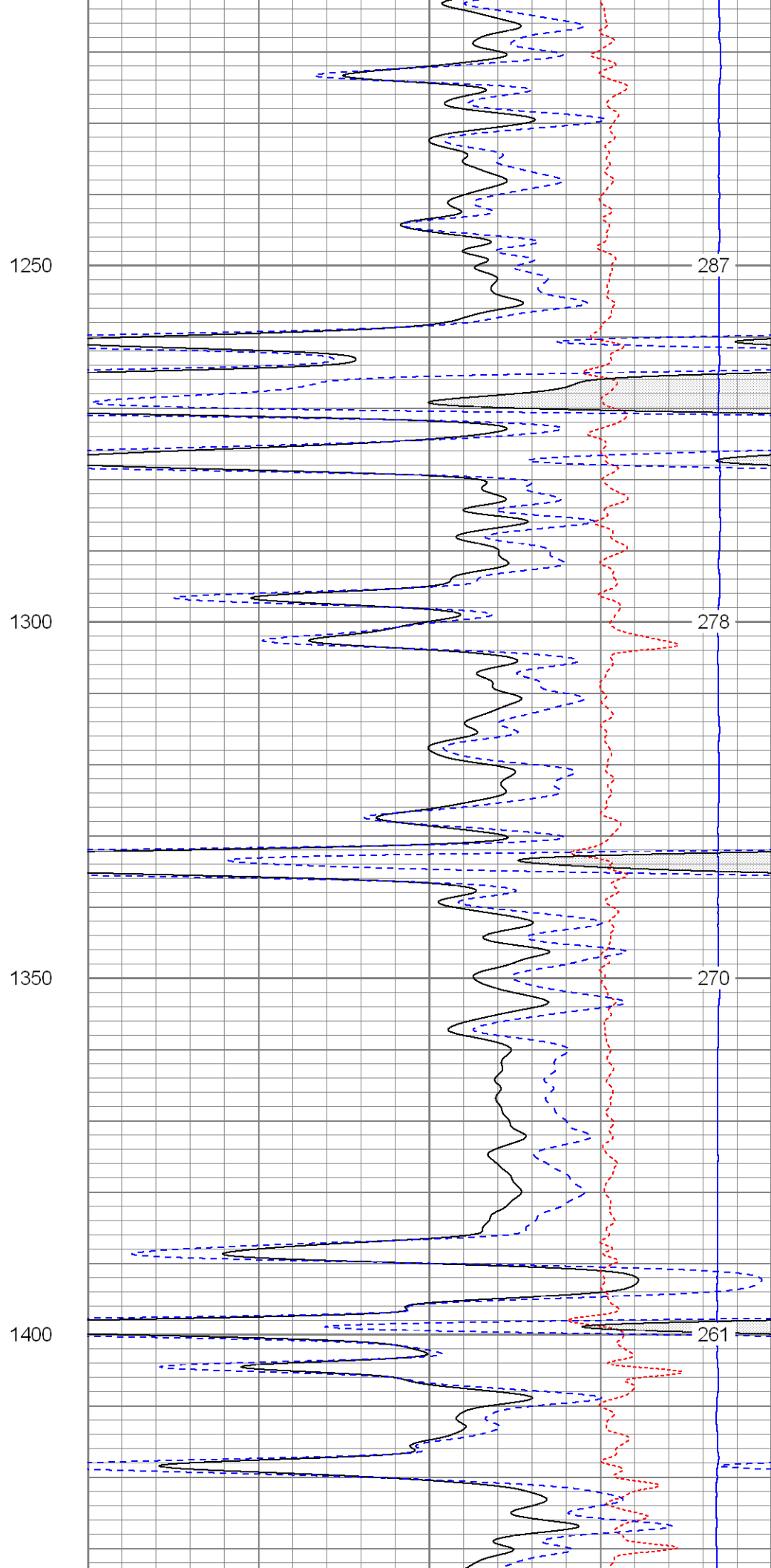
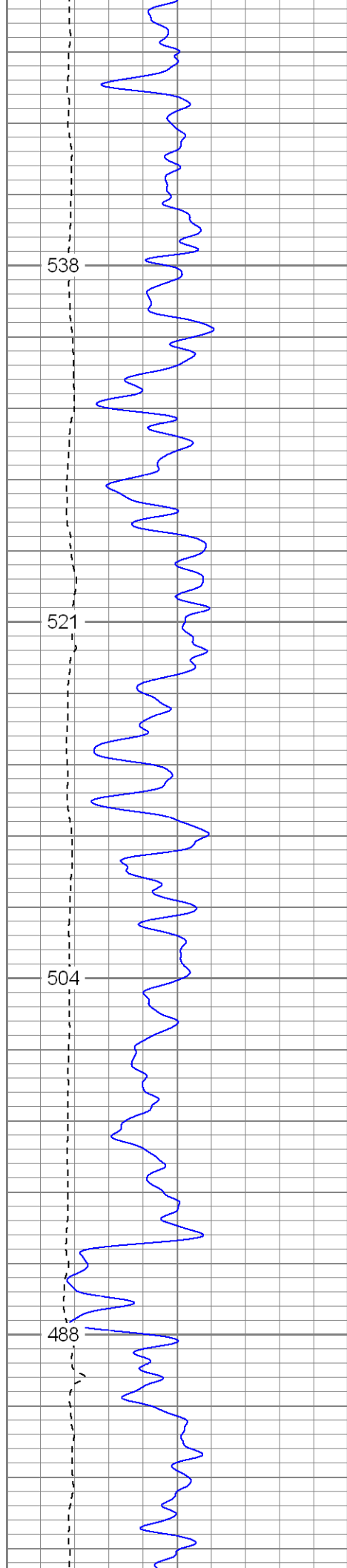
| | | | | | | |
|------------|-----------|-----|----|-------------|-------------|------------|
| 0 | GR (GAPI) | 200 | 2 | RHOB (g/cc) | 3 | |
| 6 | DCAL (in) | 16 | 1 | RHOB (g/cc) | 2 | |
| TBHV (ft3) | | | 30 | DPOR (pu) | -10 | |
| | | | | -0.5 | RHOC (g/cc) | 0.5 |
| | | | | 7000 | LTEN (lb) | 0 |
| | | | | | | ABHV (ft3) |

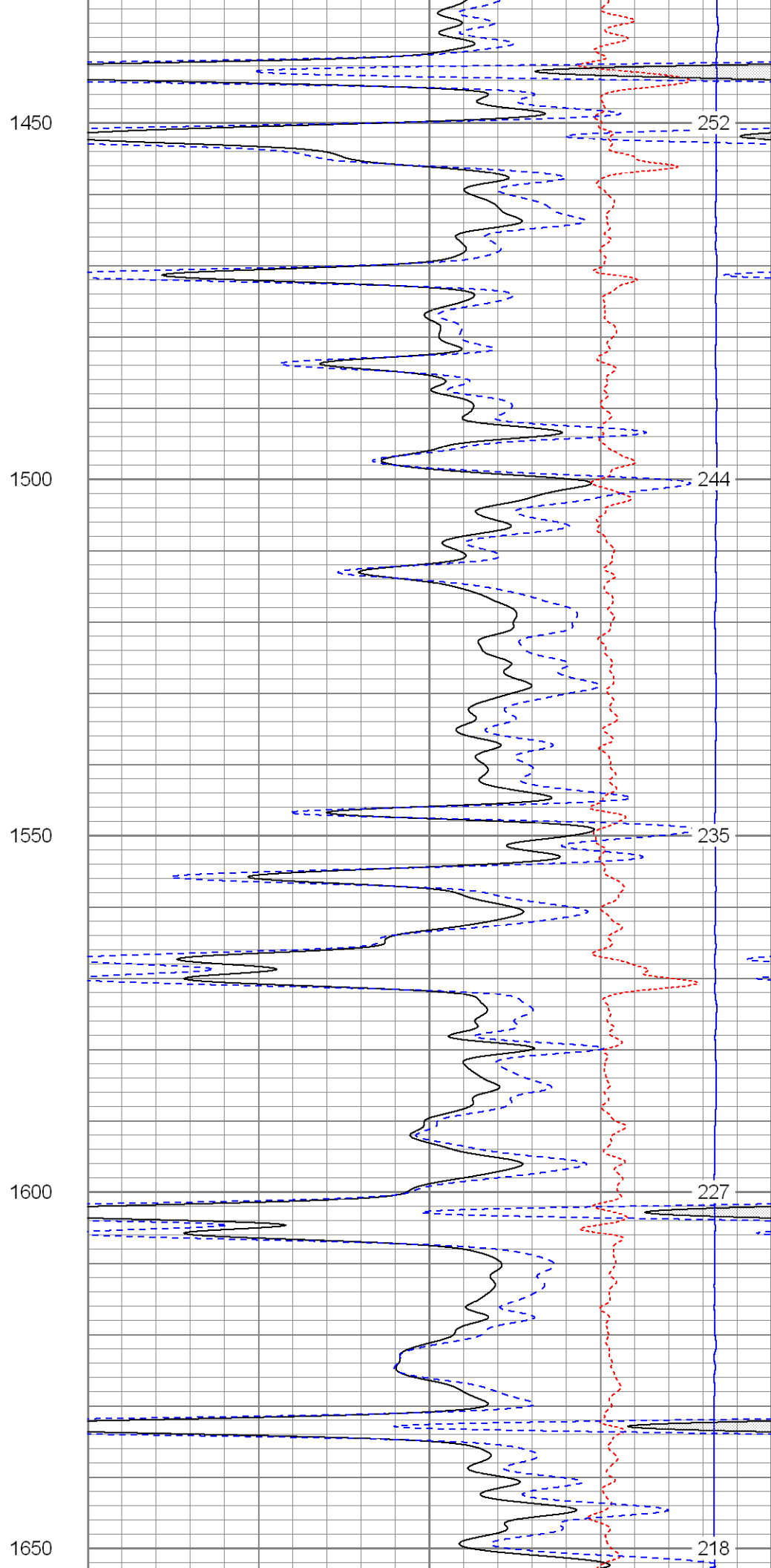
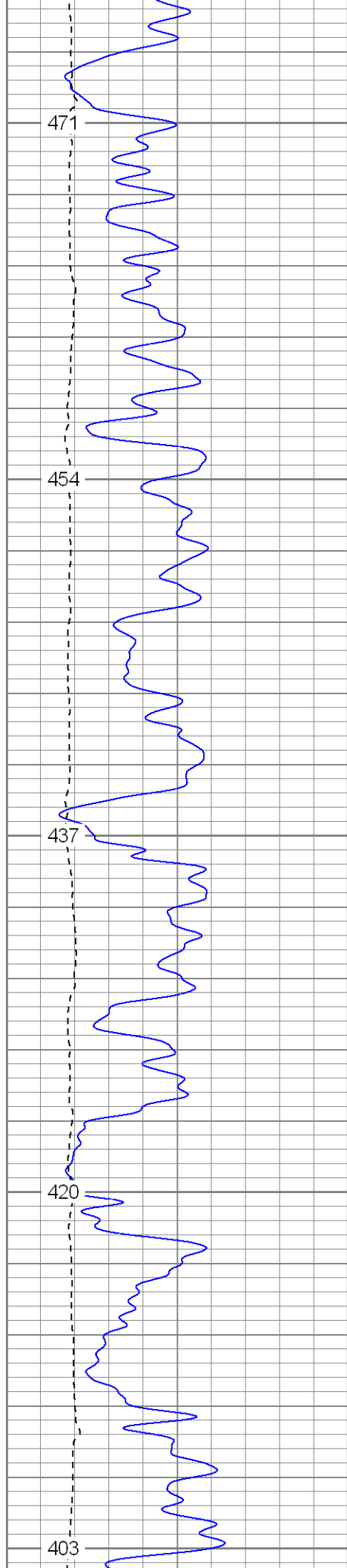


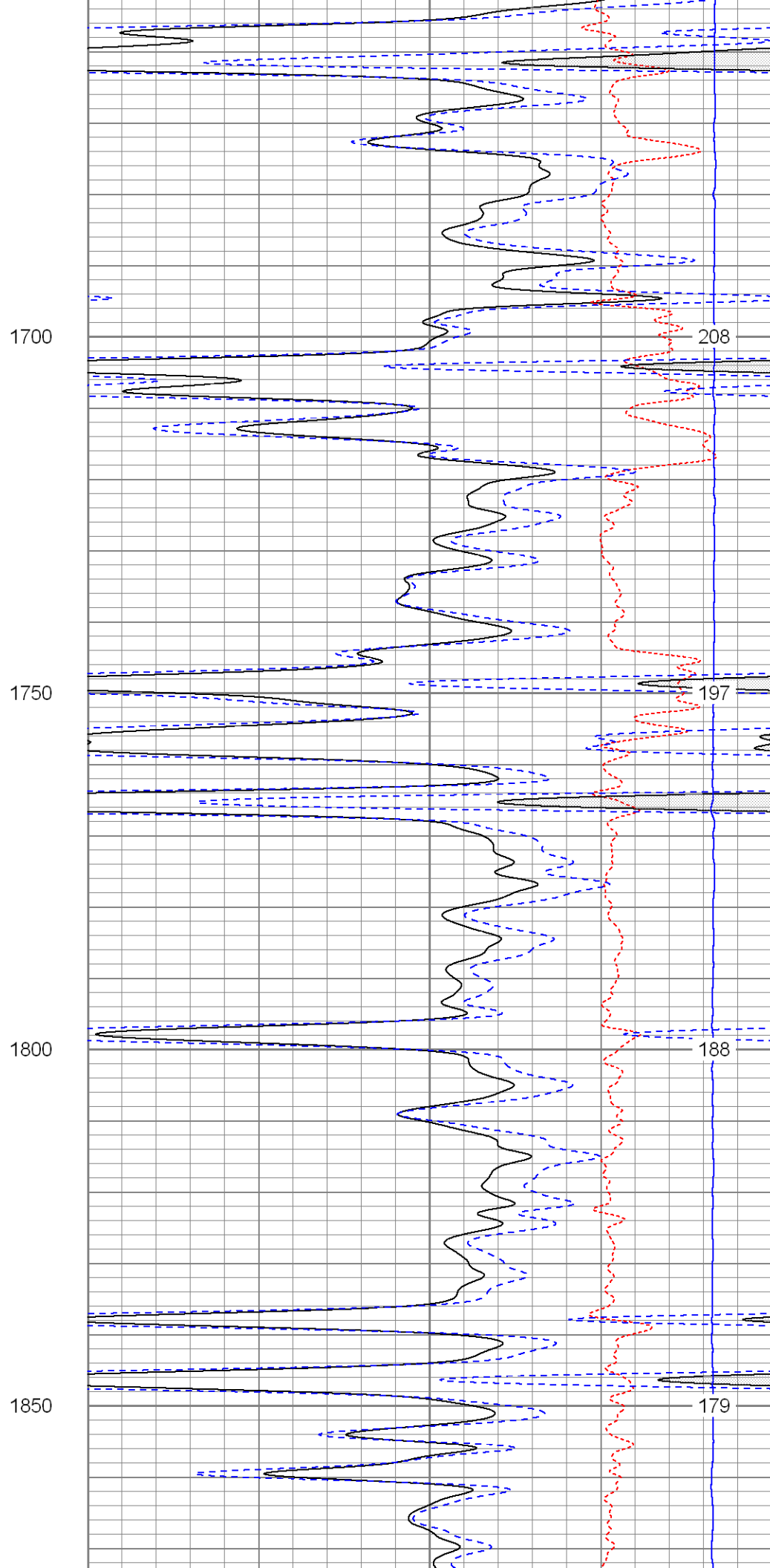
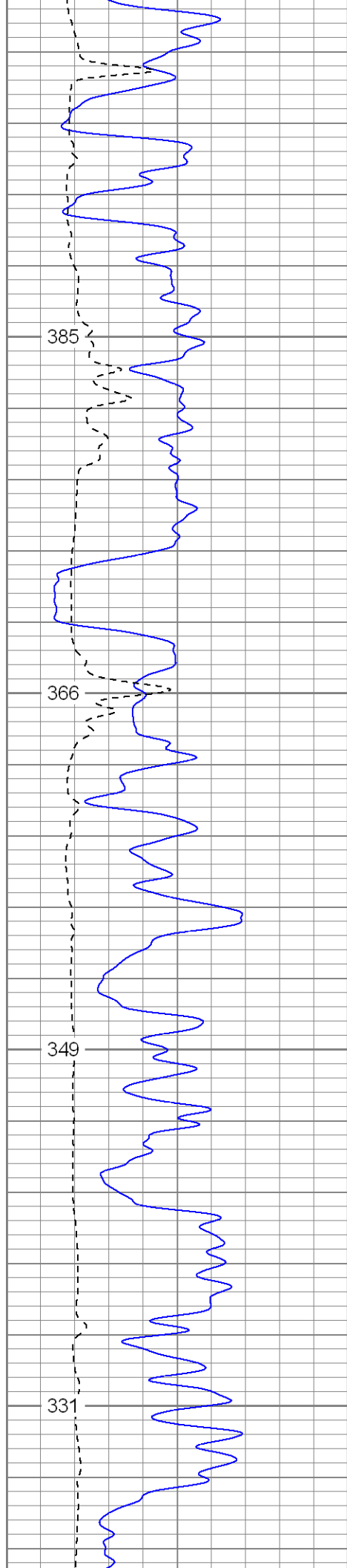


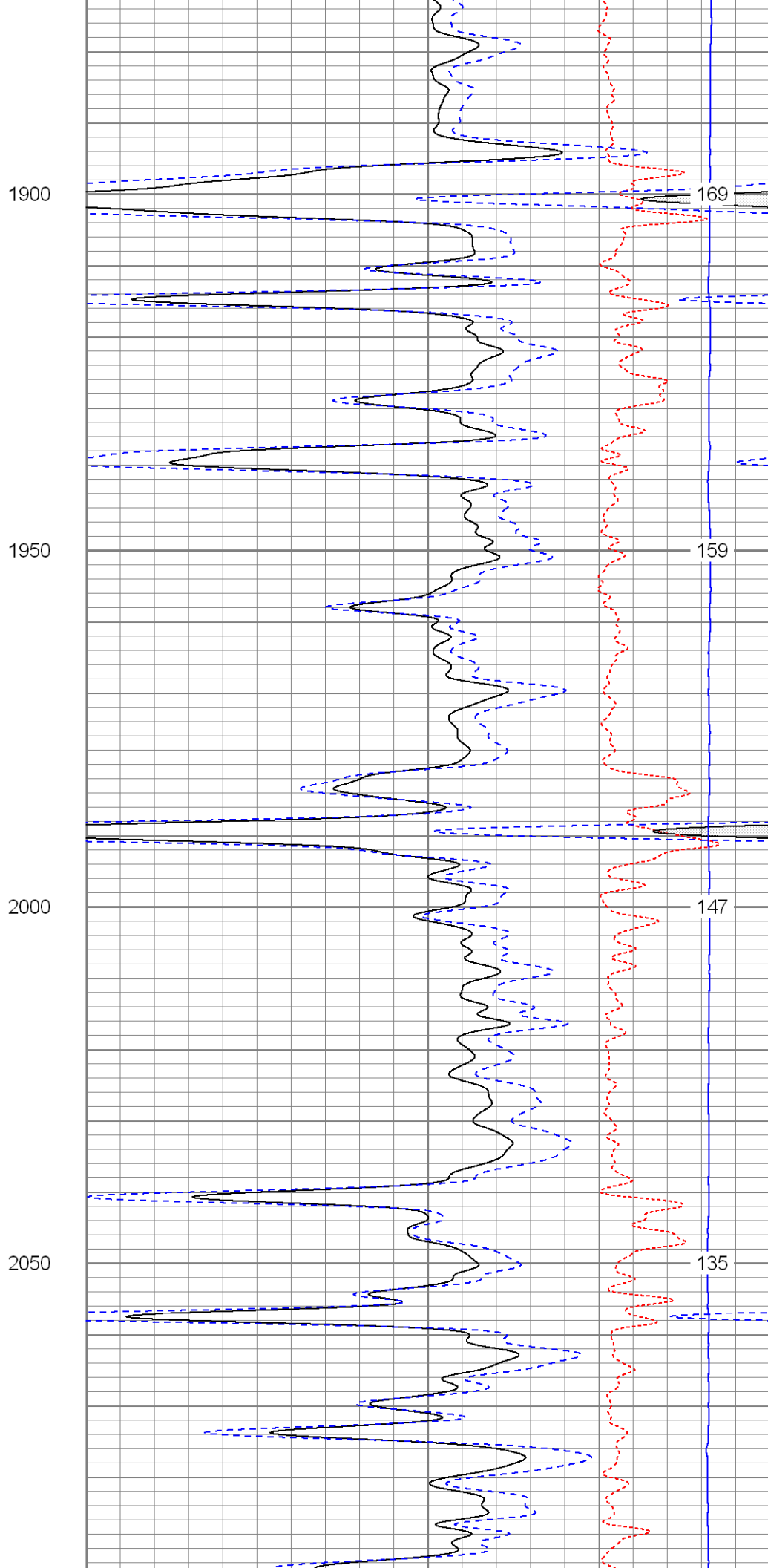
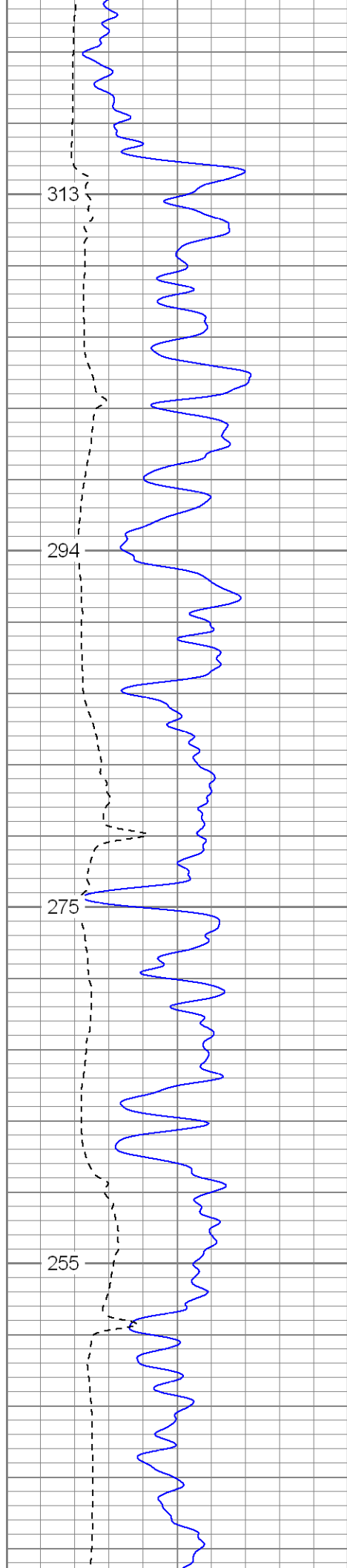


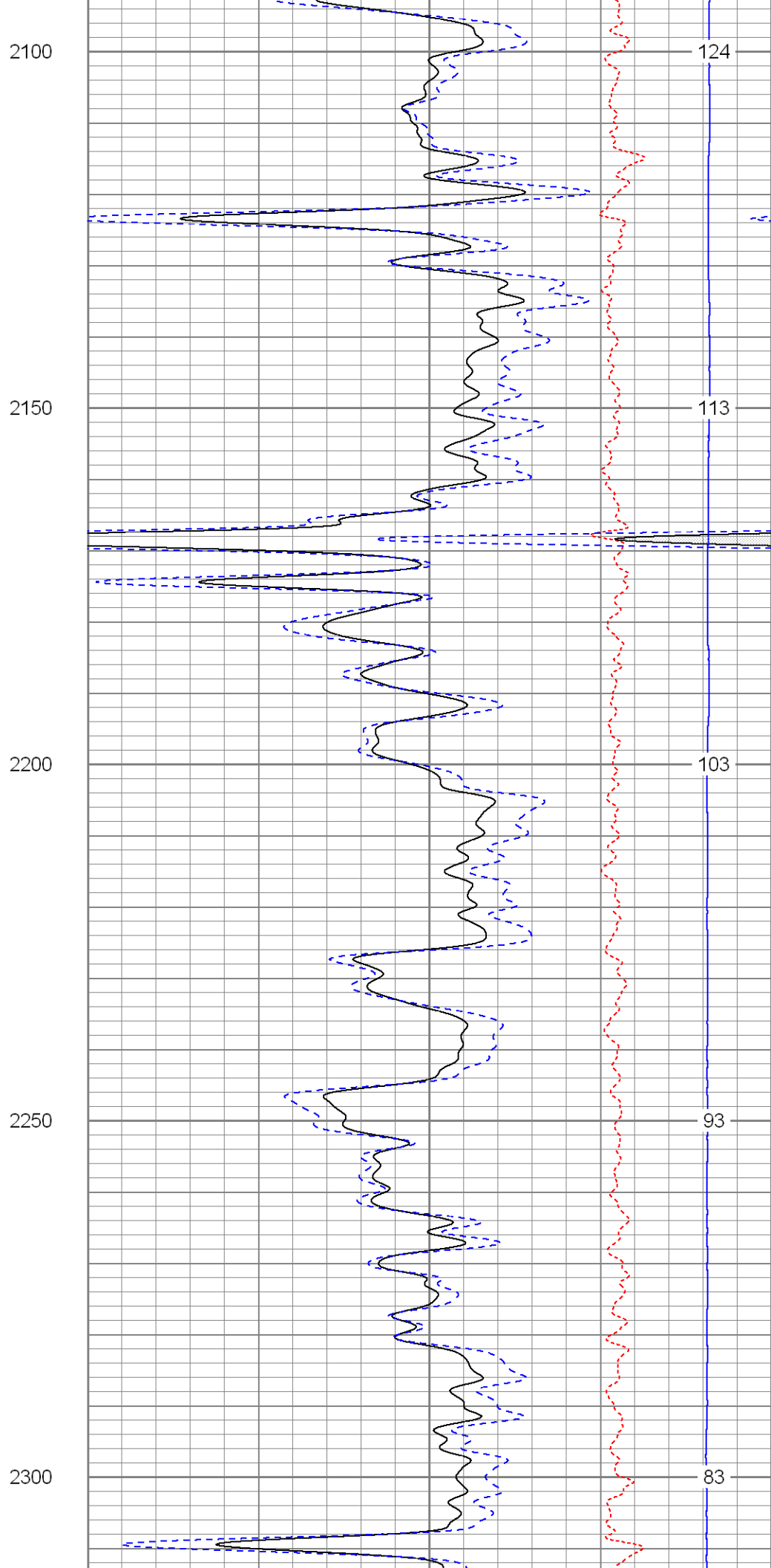
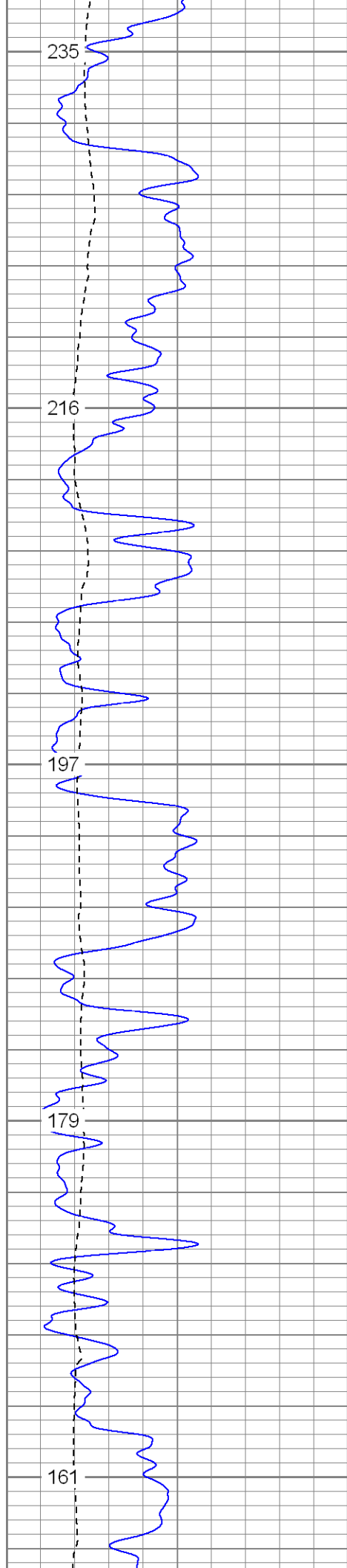


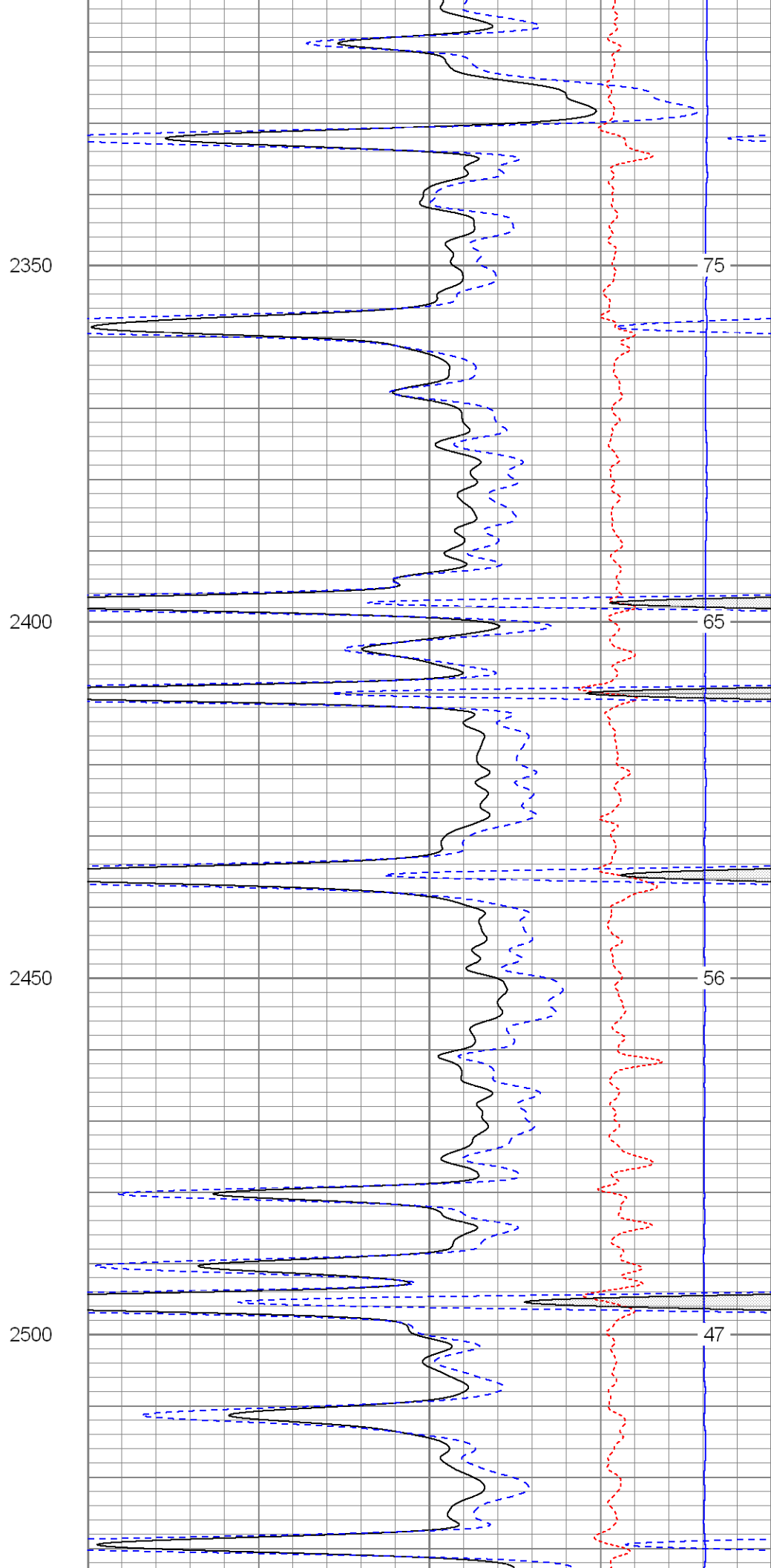
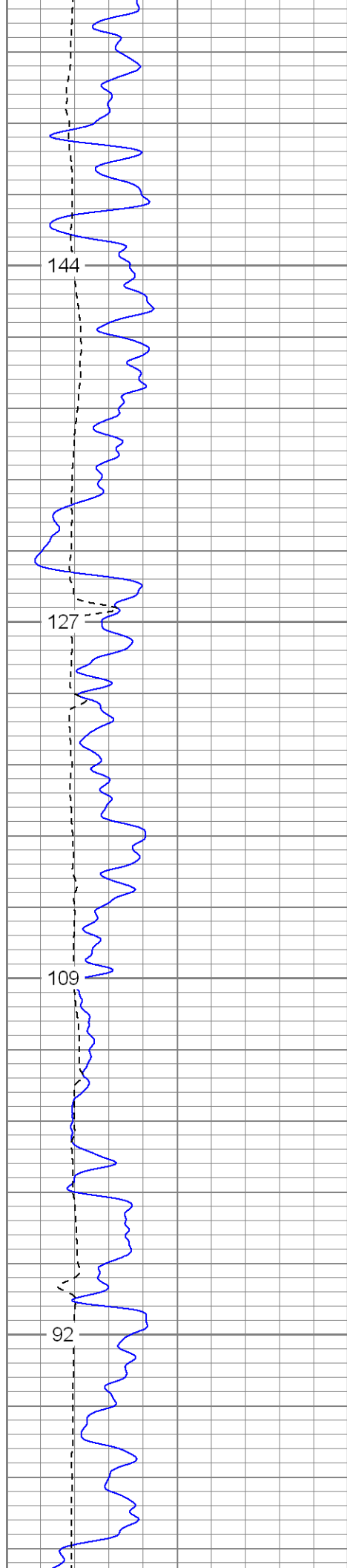


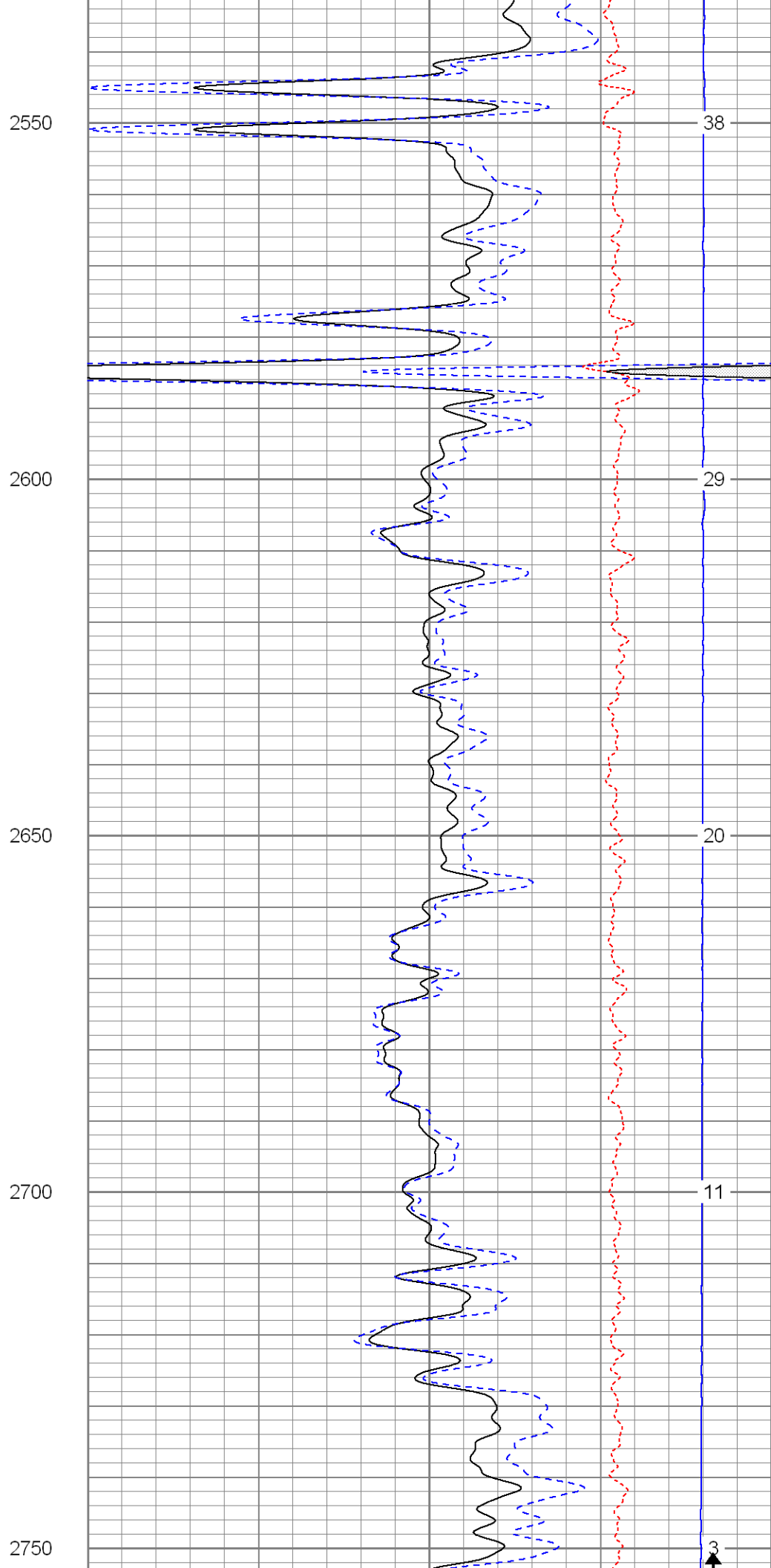
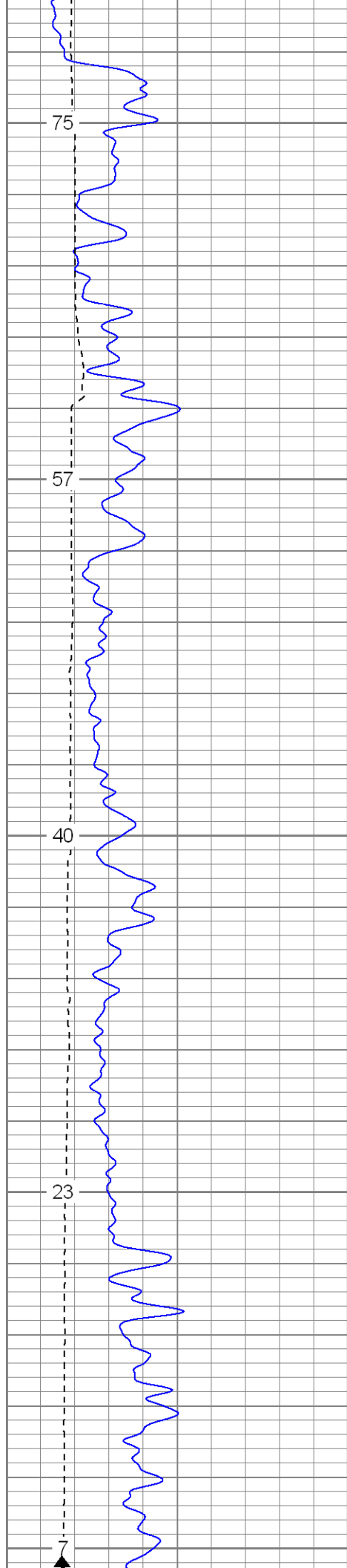


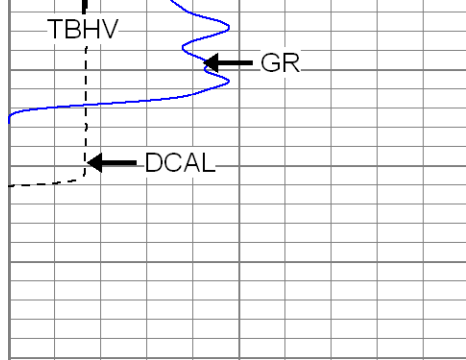






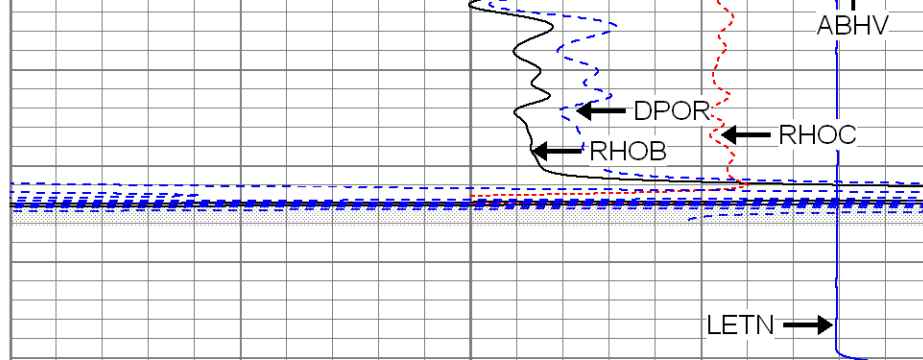






| | | |
|---|-----------|-----|
| 0 | GR (GAPI) | 200 |
| 6 | DCAL (in) | 16 |

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: lickitysplitdi.db
 Dataset Pathname: pass1.2
 Presentation Format: cdl
 Dataset Creation: Mon Dec 14 08:11:18 2009 by Calc Open-Cased 071220
 Charted by: Depth in Feet scaled 1:240

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

TBHV (ft3)

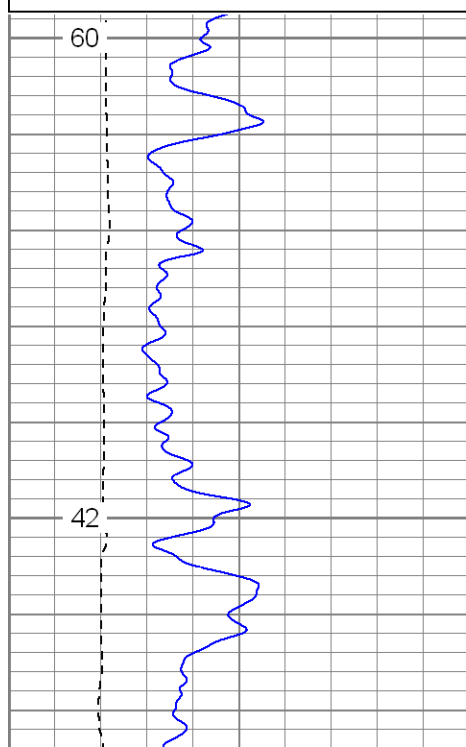
| | | |
|---|-------------|---|
| 2 | RHOB (g/cc) | 3 |
| 1 | RHOB (g/cc) | 2 |

| | | |
|----|-----------|-----|
| 30 | DPOR (pu) | -10 |
|----|-----------|-----|

| | | |
|------|-------------|-----|
| -0.5 | RHOC (g/cc) | 0.5 |
|------|-------------|-----|

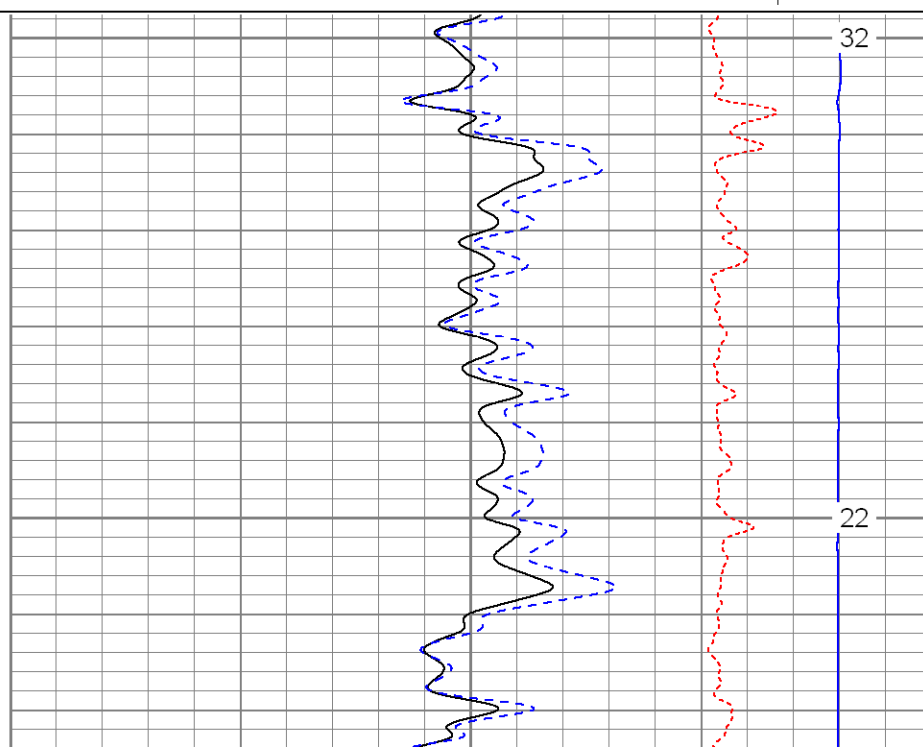
| | | |
|------|-----------|---|
| 7000 | LTEN (lb) | 0 |
|------|-----------|---|

ABHV (ft3)



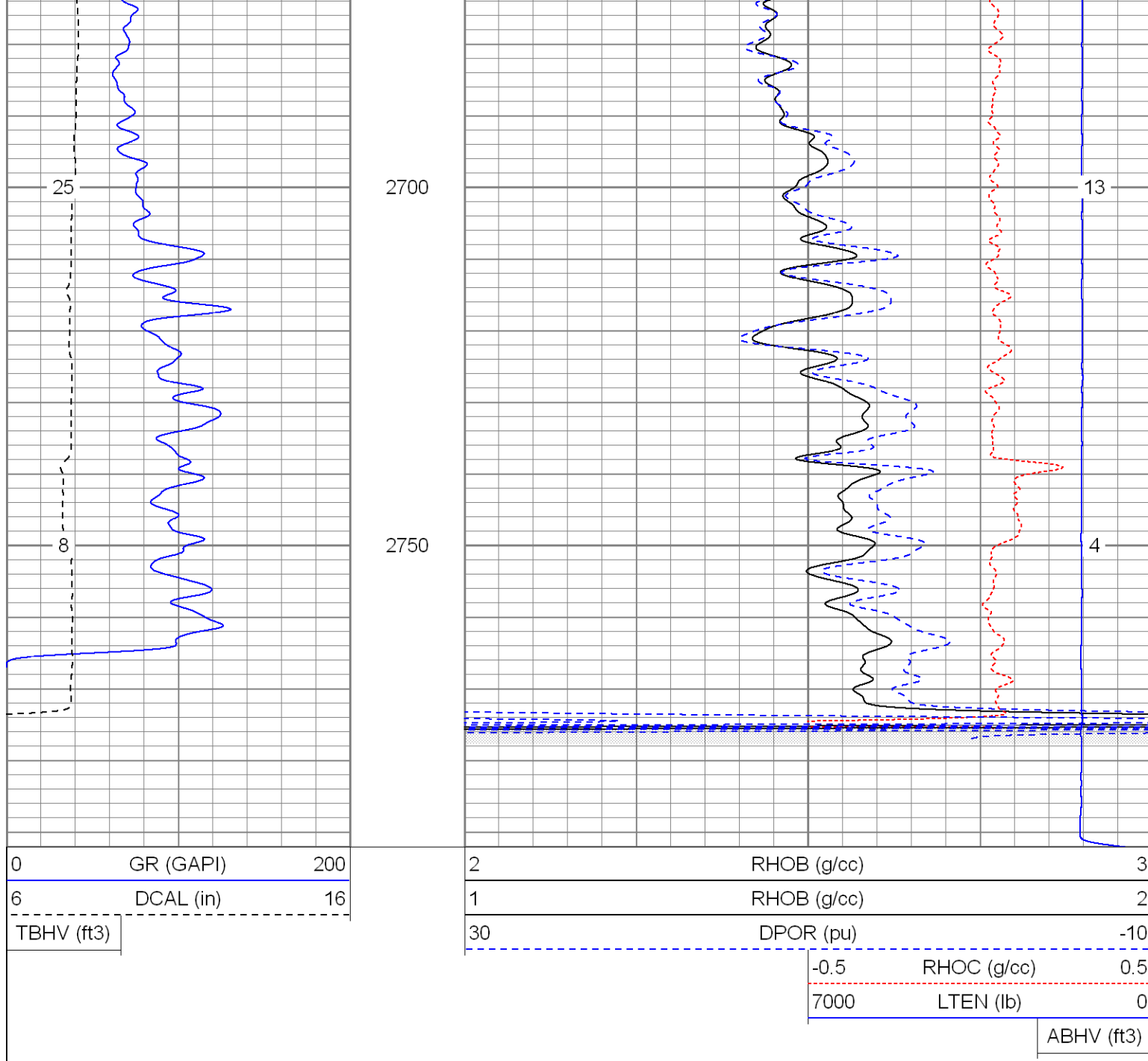
2600

2650



32

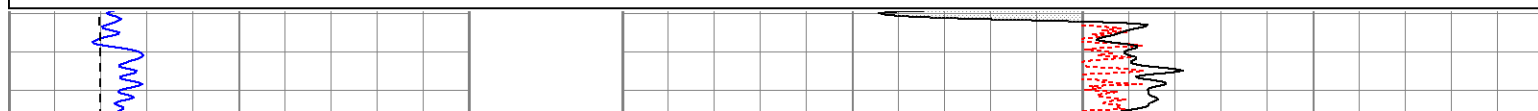
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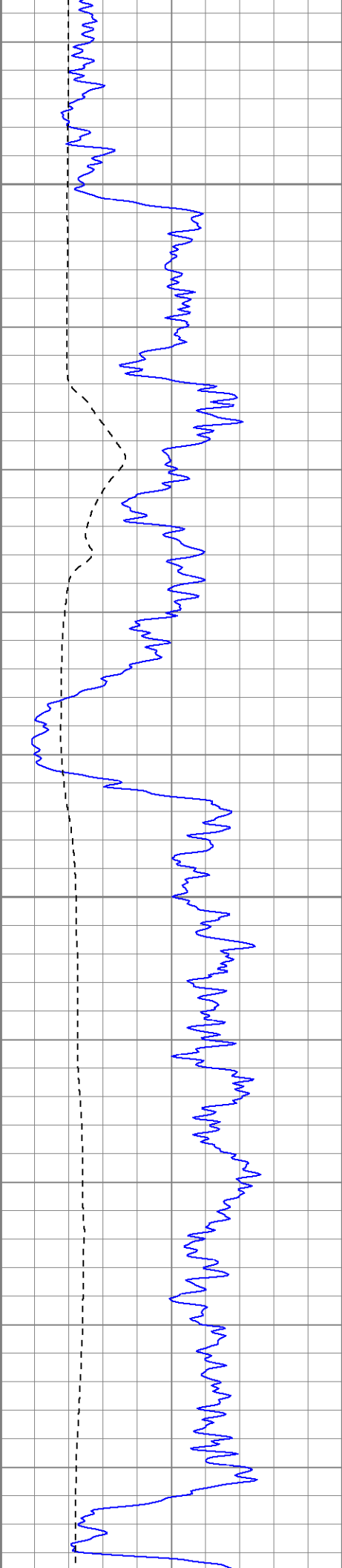


High Resolution Pass

Database File: lickitysplitdi.db
 Dataset Pathname: pass2.2hr
 Presentation Format: cdlhr
 Dataset Creation: Mon Dec 14 08:15:35 2009 by Calc Open-Cased 071220
 Charted by: Depth in Feet scaled 1:120

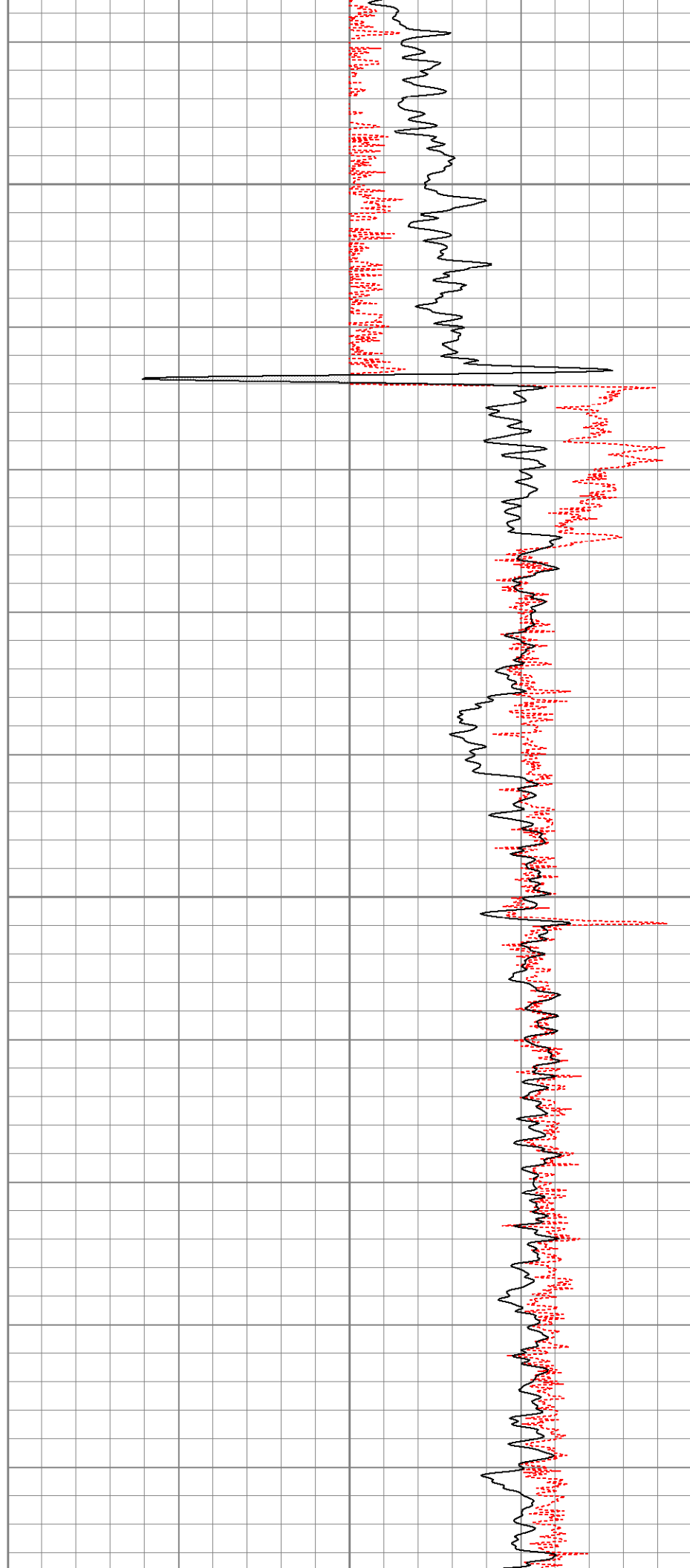
| | | | | | | |
|---|-----------|-----|---|-------------|-------------|-----|
| 0 | GR (GAPI) | 200 | 1 | RHOB (g/cc) | | 3 |
| 6 | DCAL (in) | 16 | | -0.5 | RHOC (g/cc) | 0.5 |

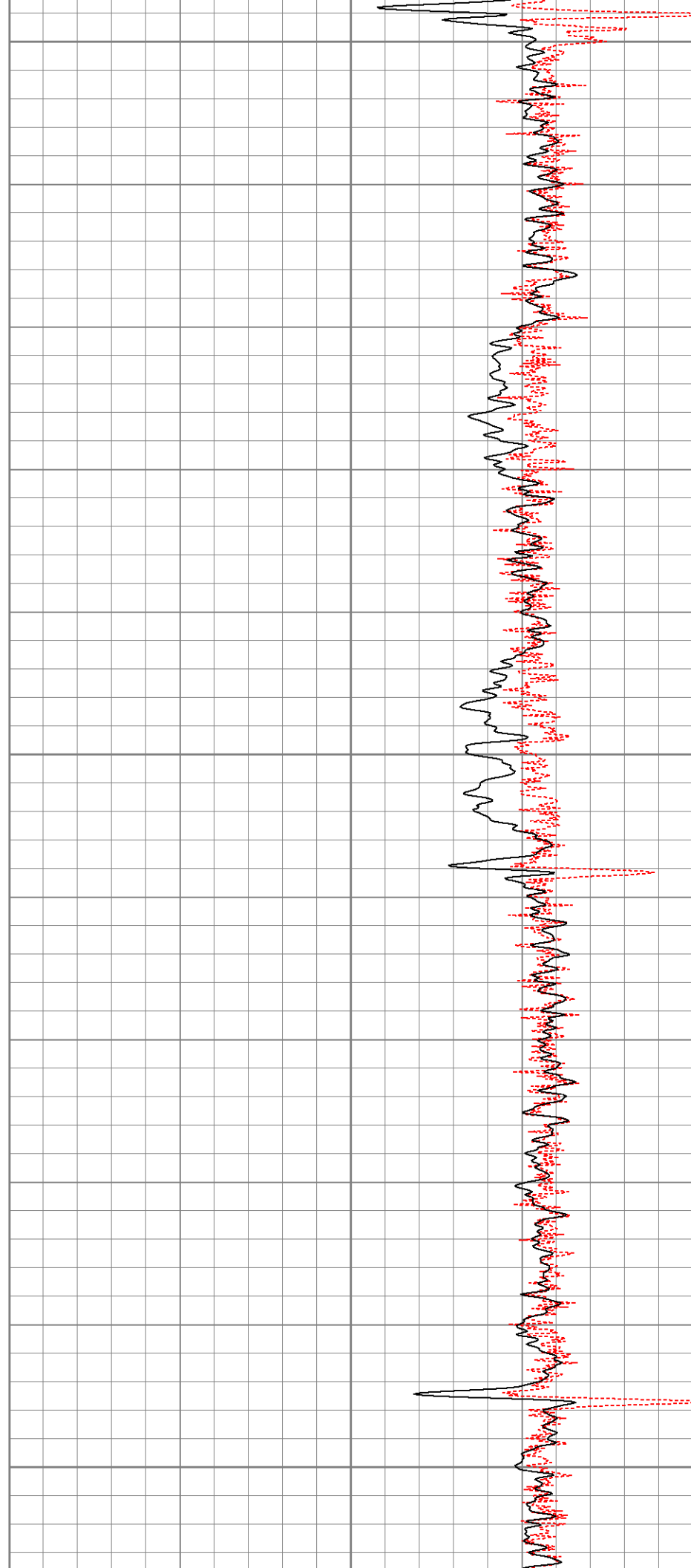
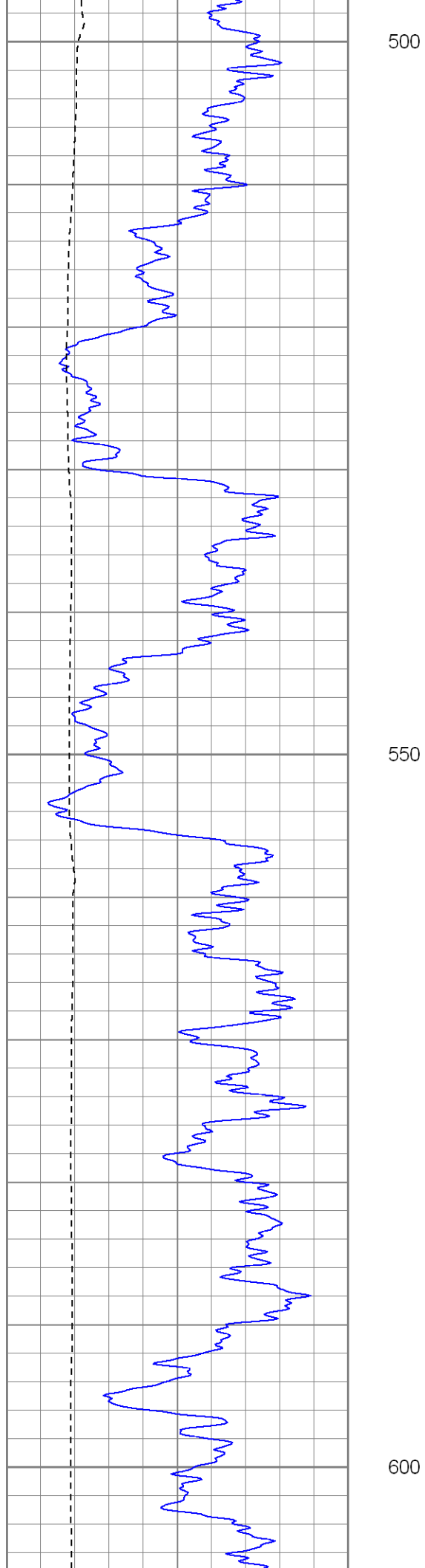


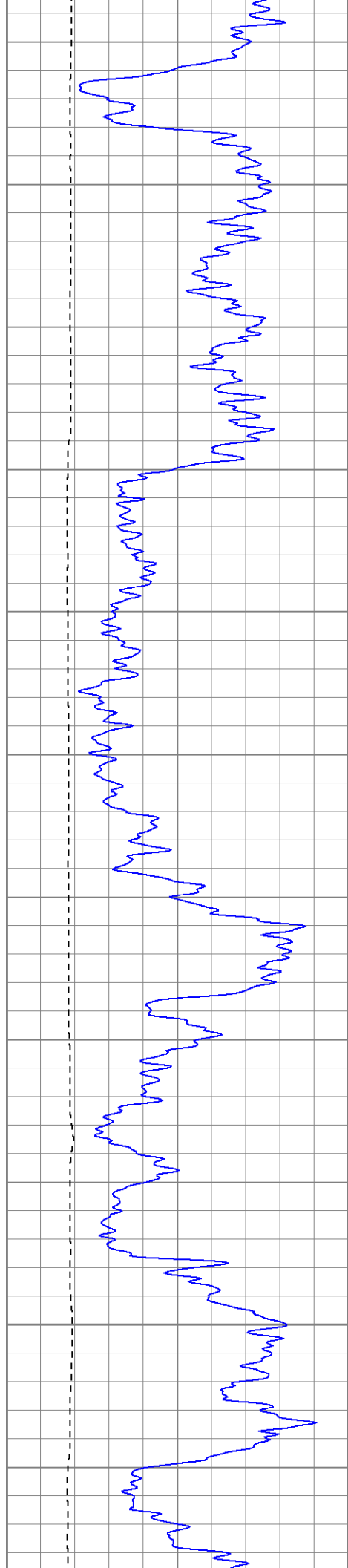


400

450

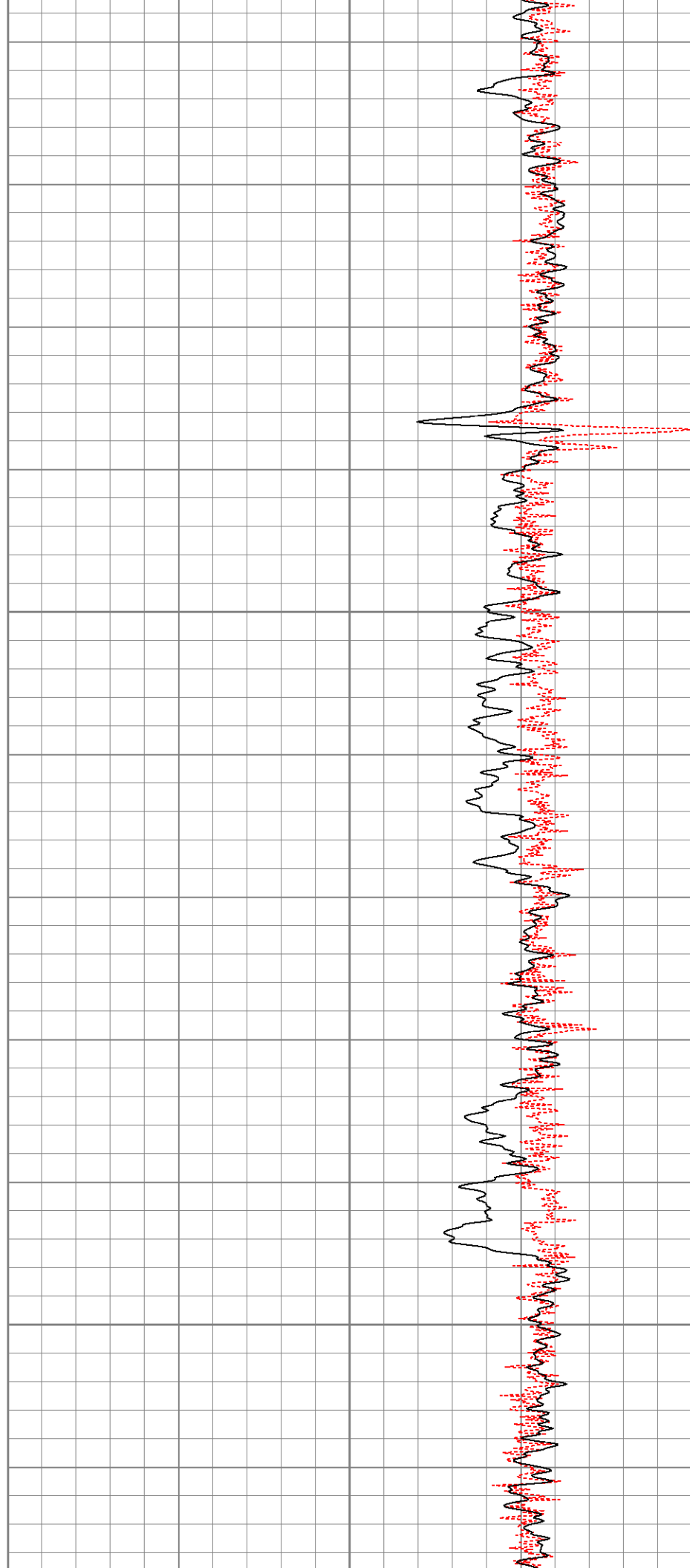


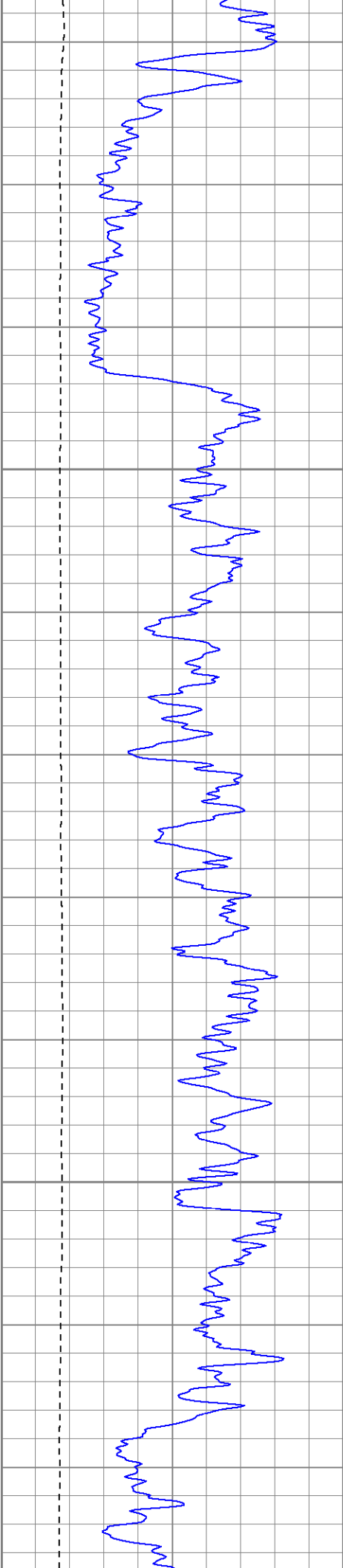




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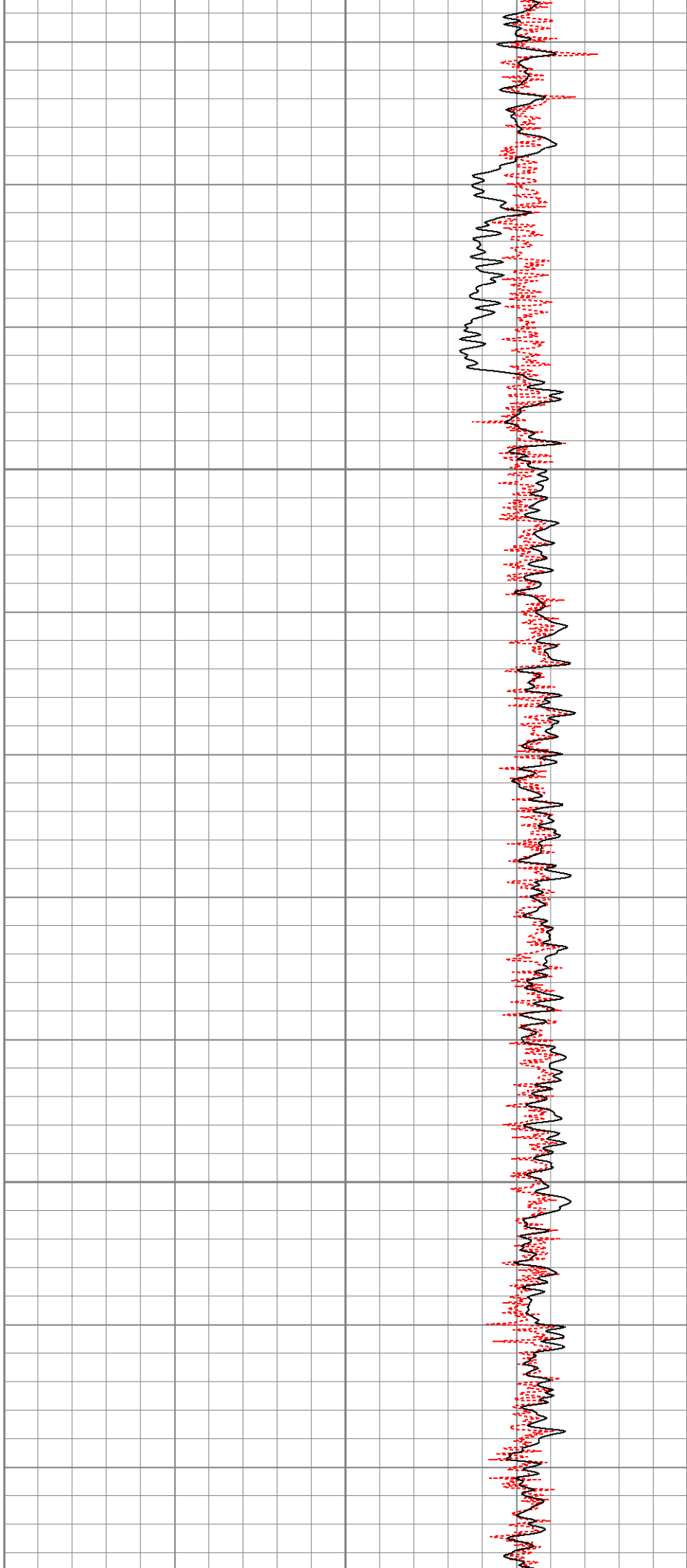
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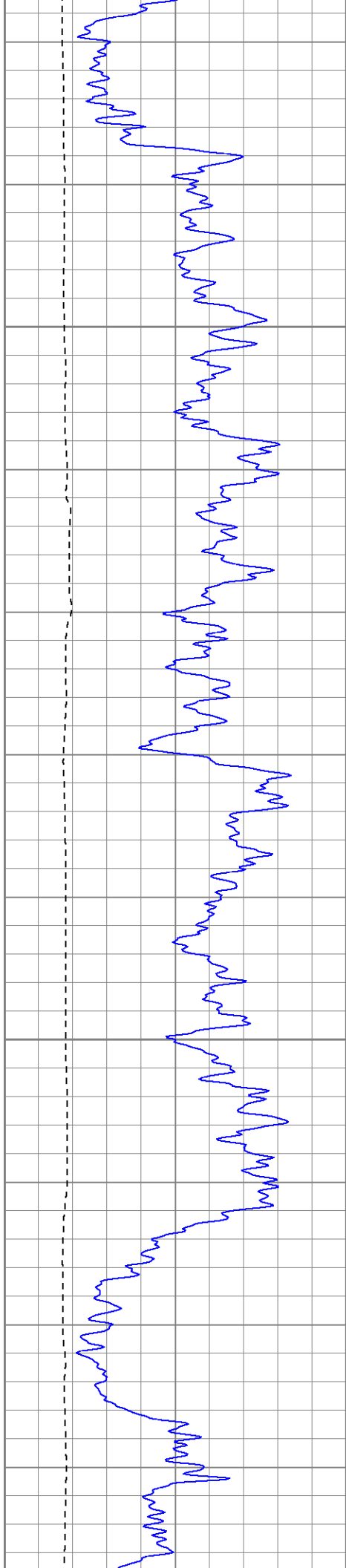
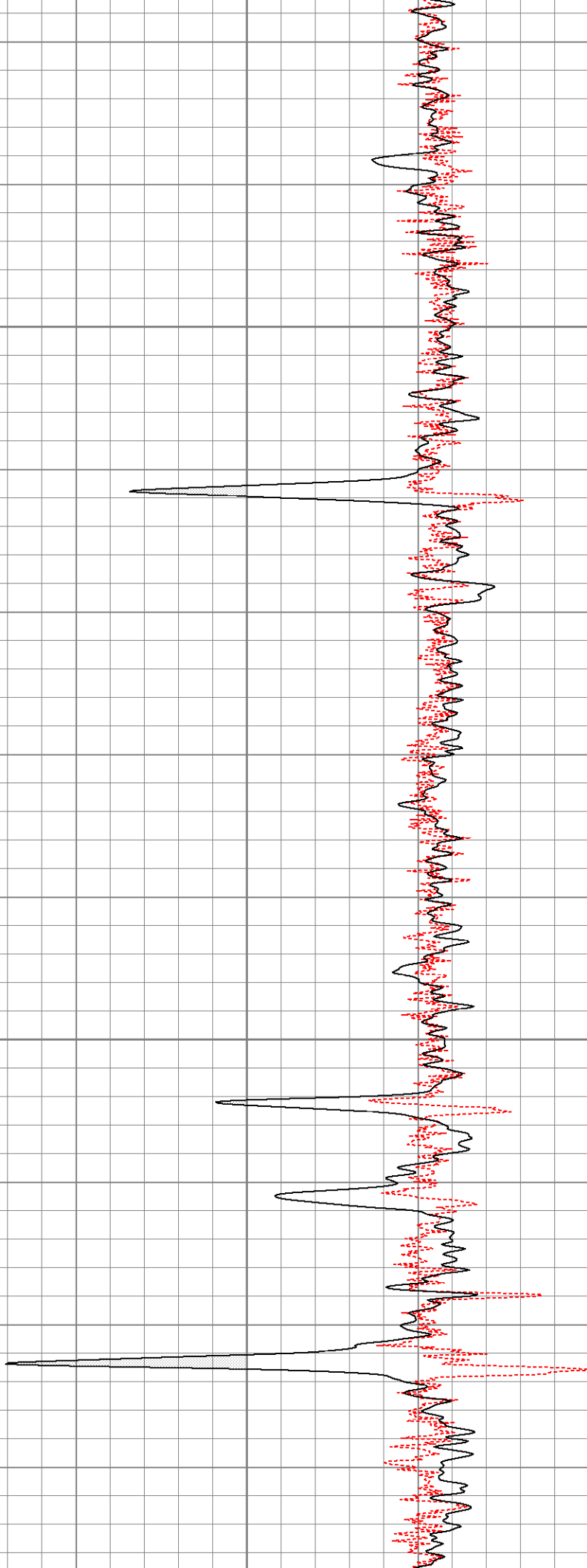
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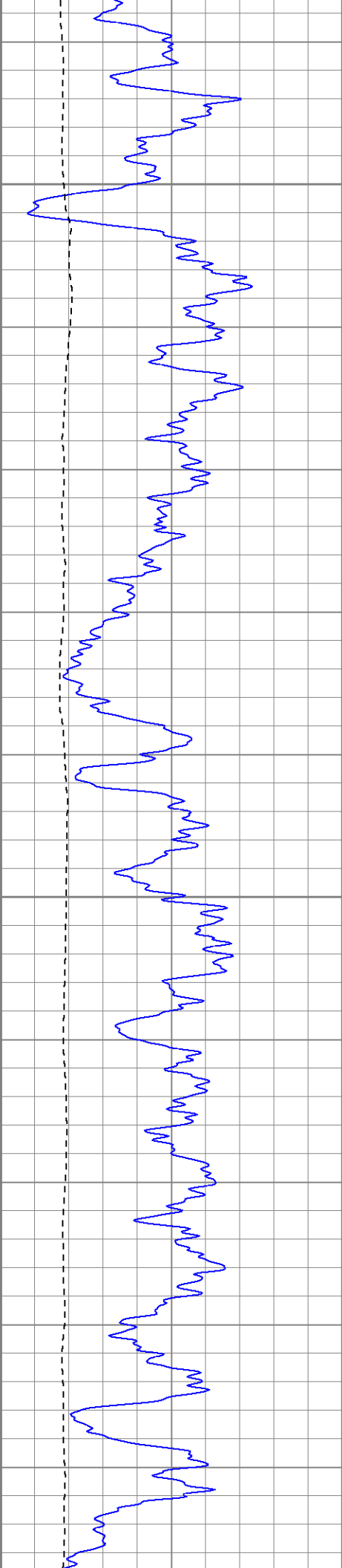
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850

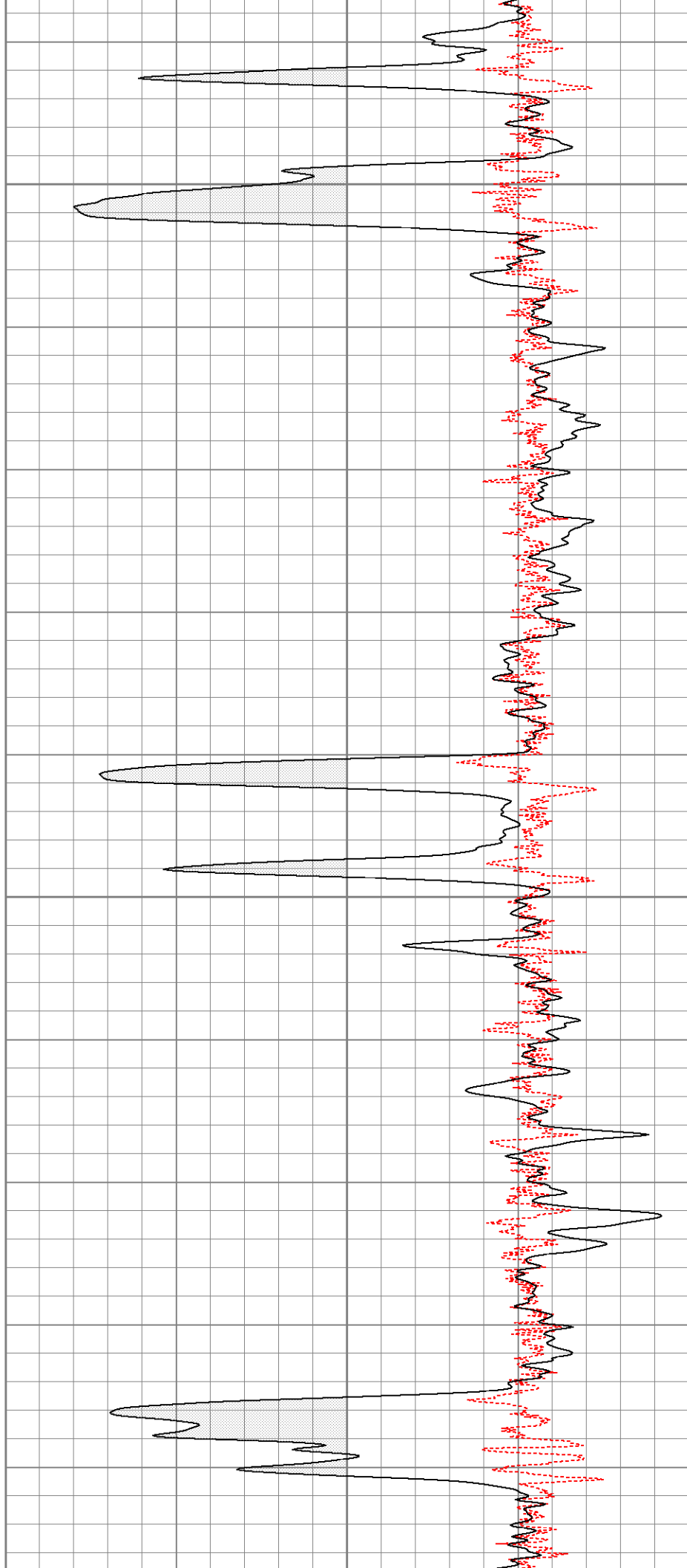
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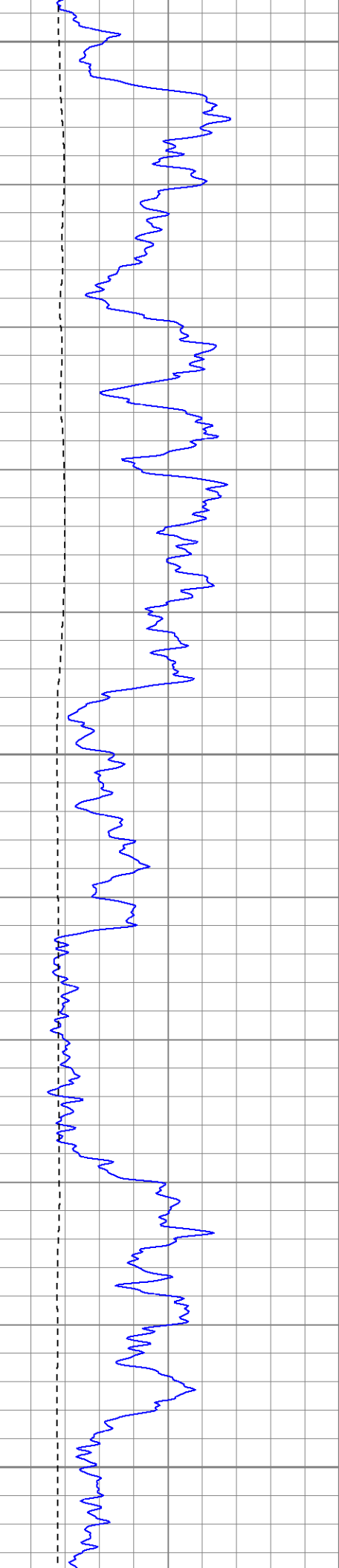




950

1000

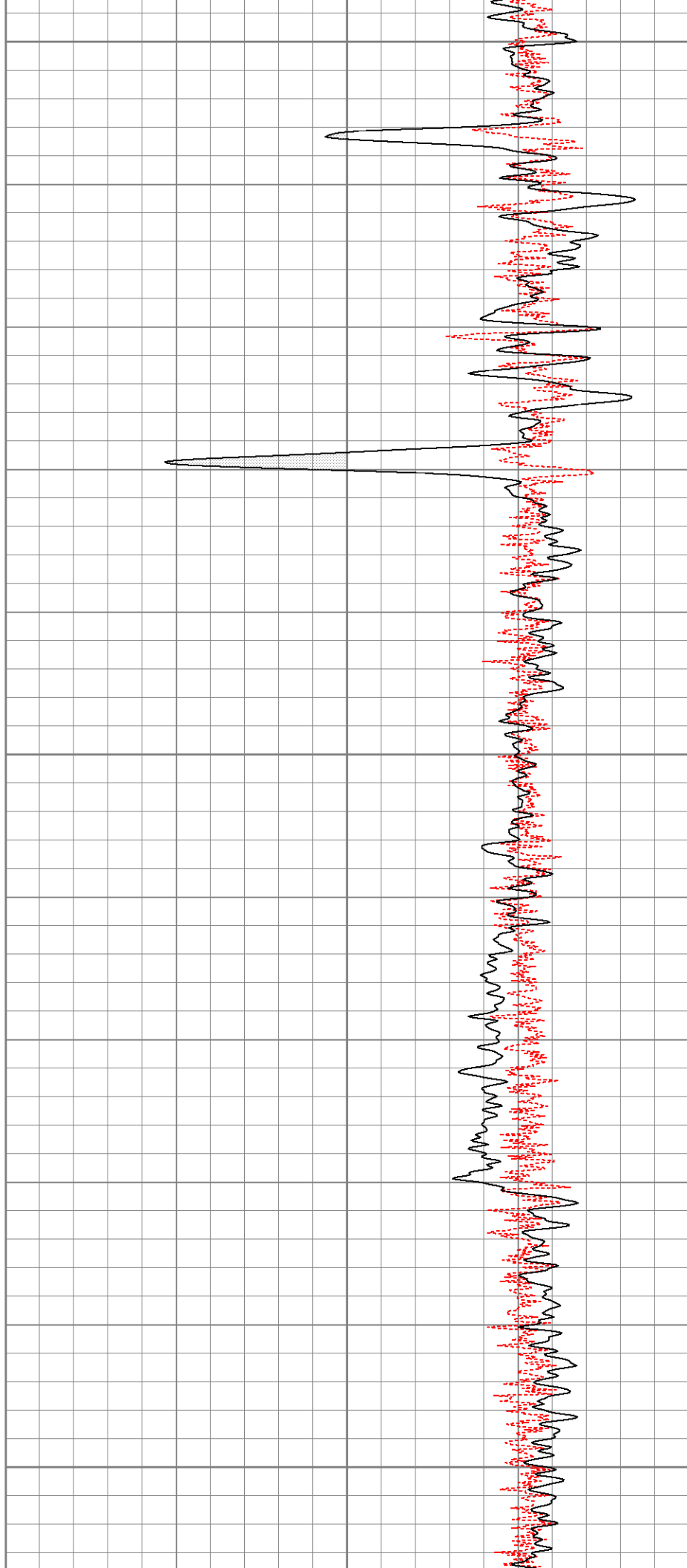


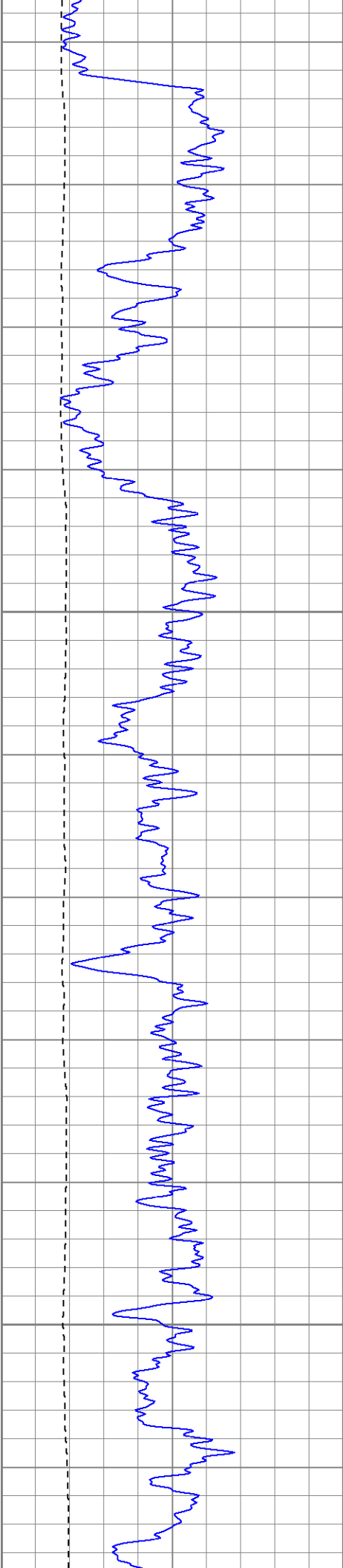


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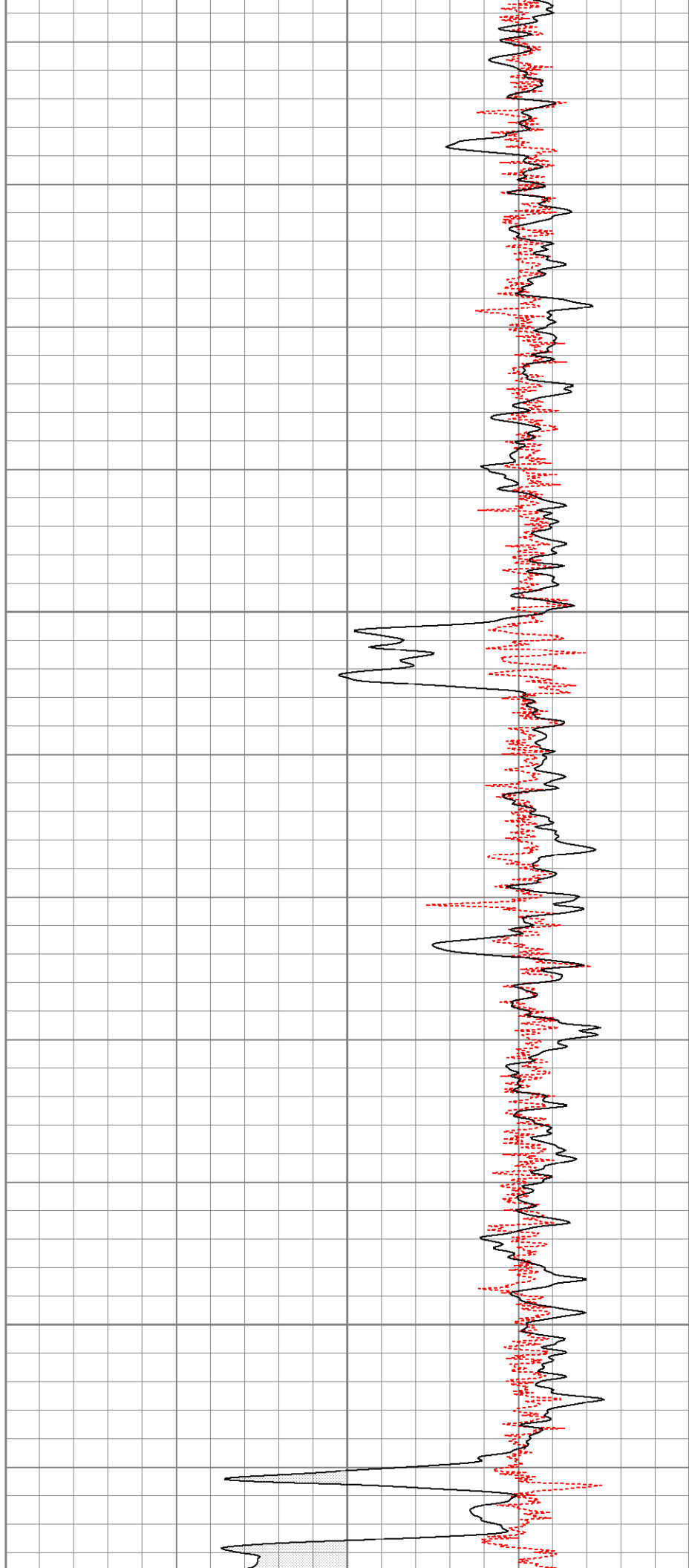
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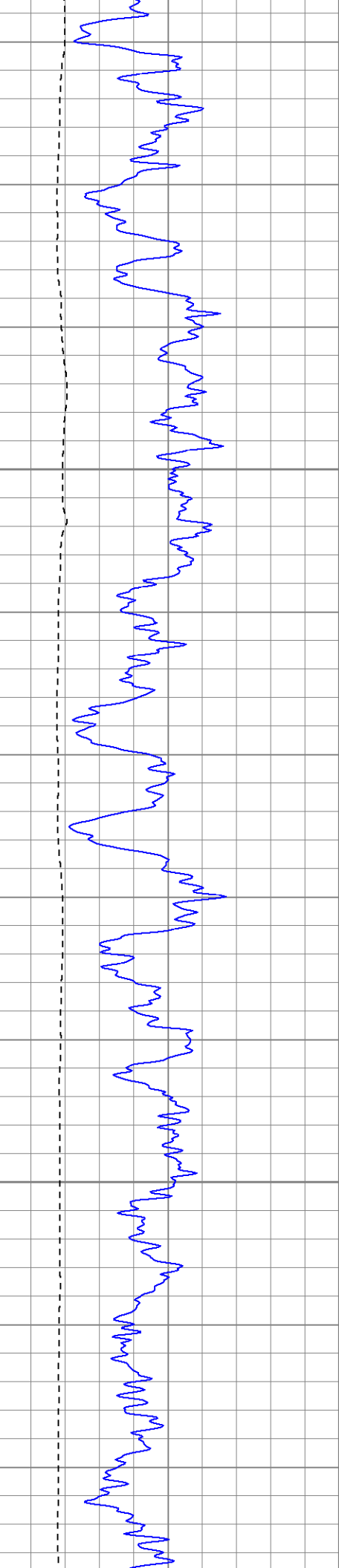




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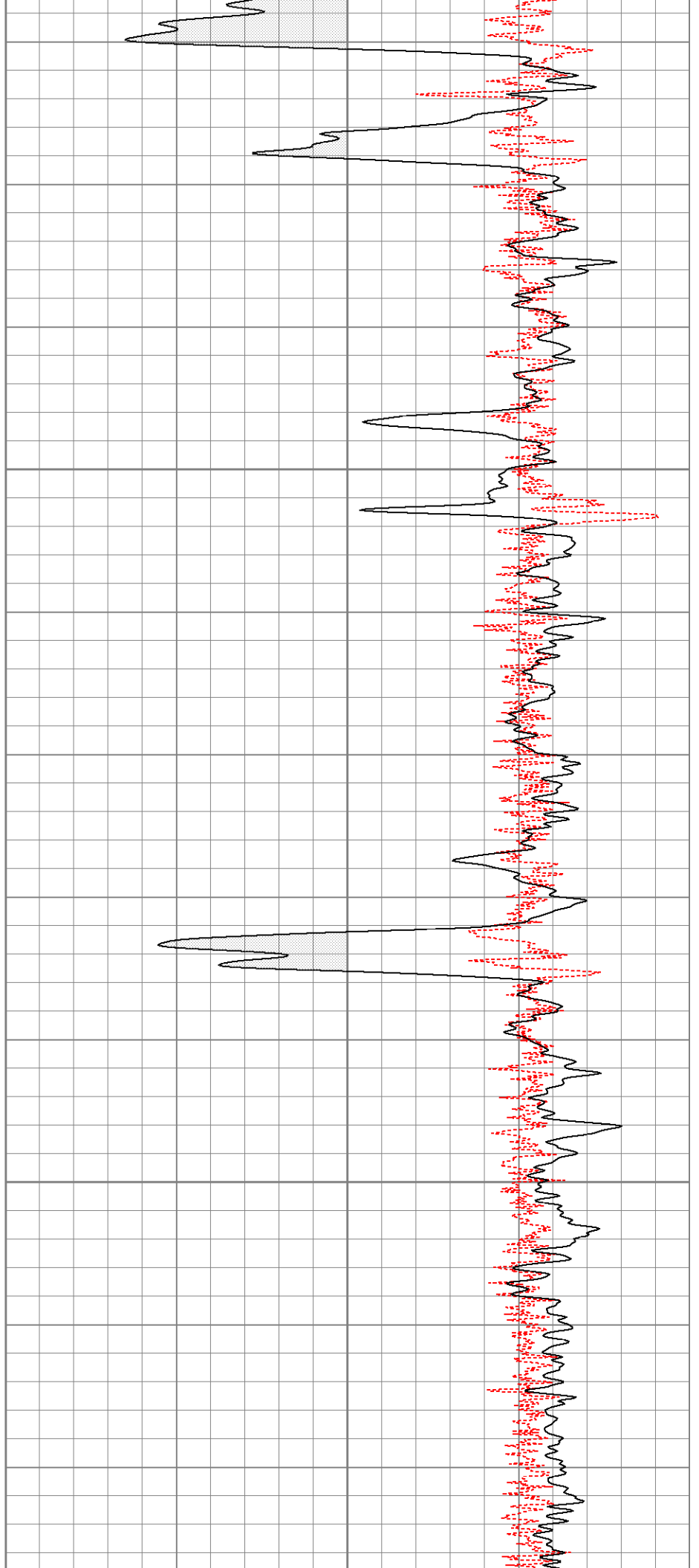
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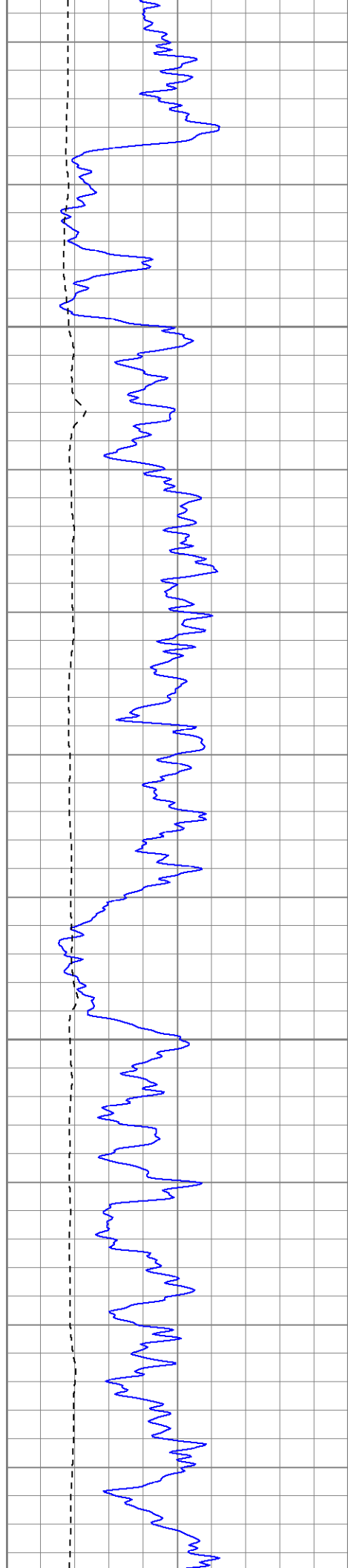




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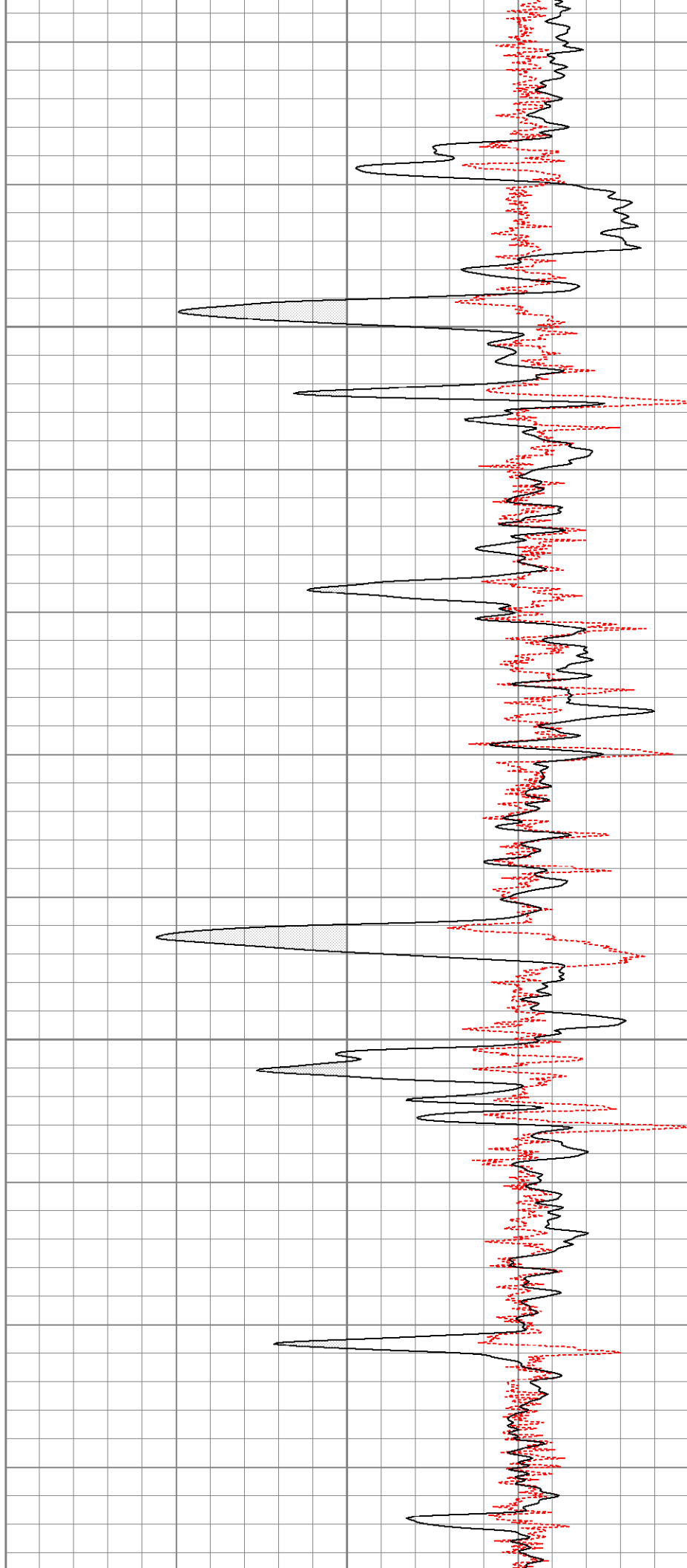
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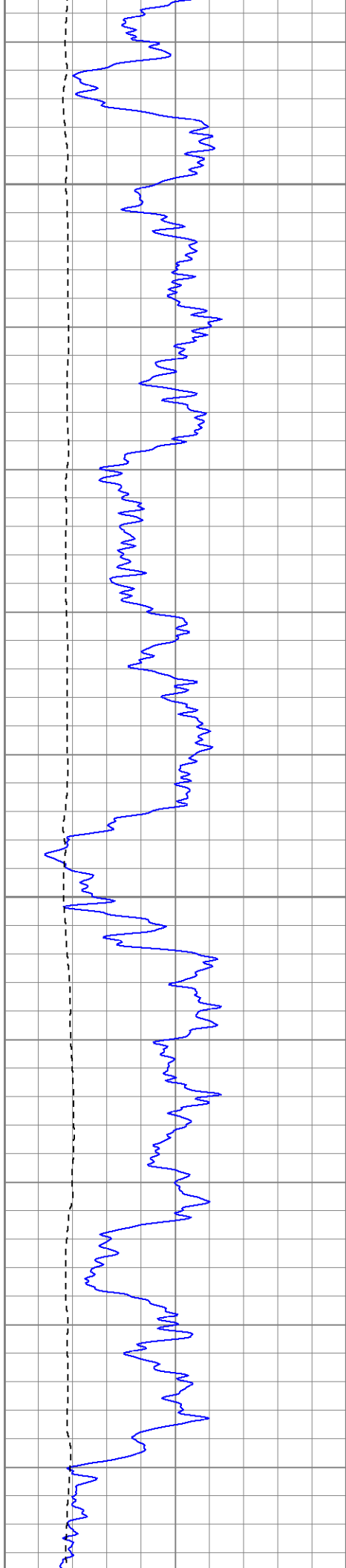




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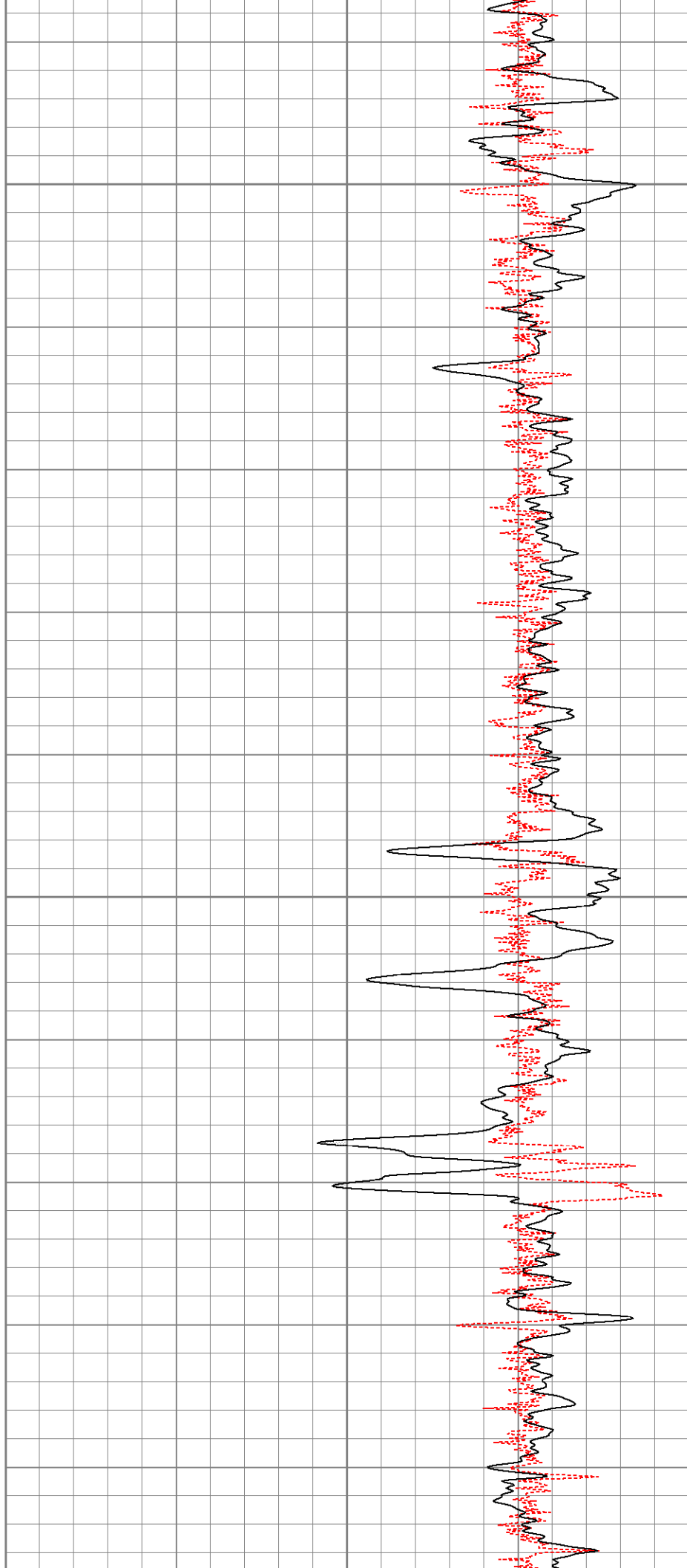
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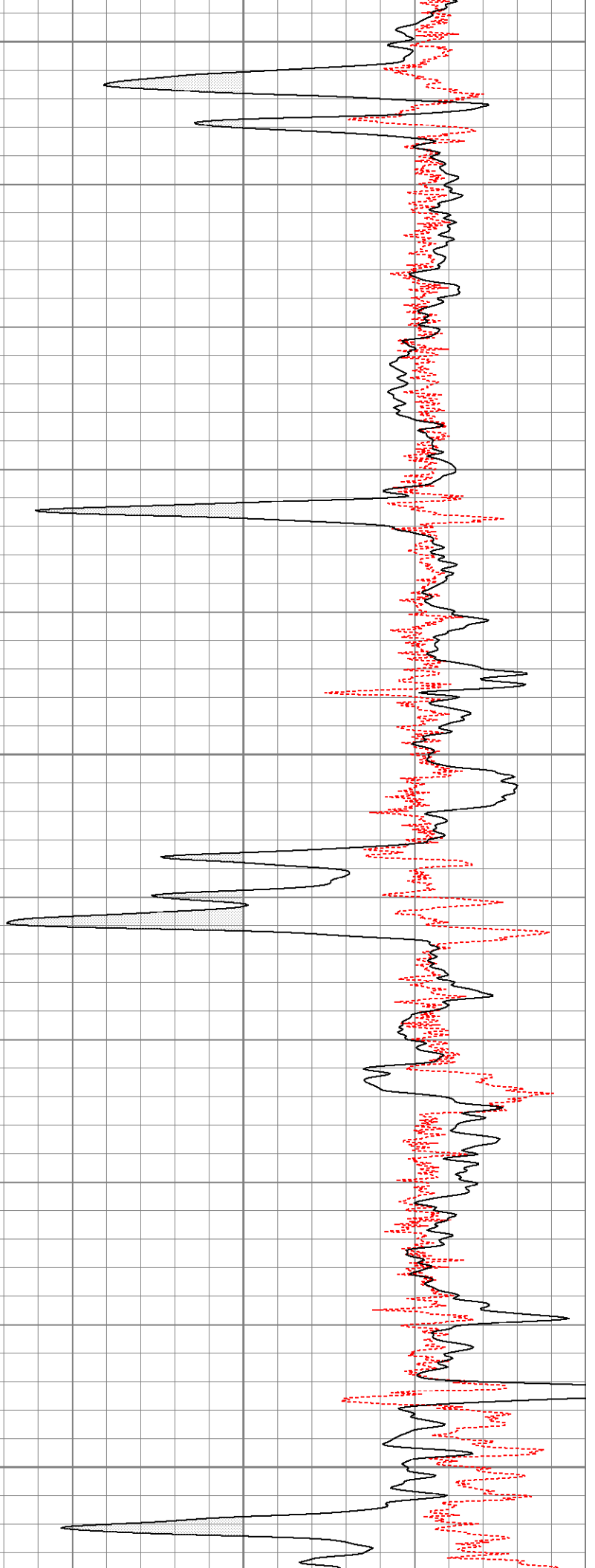
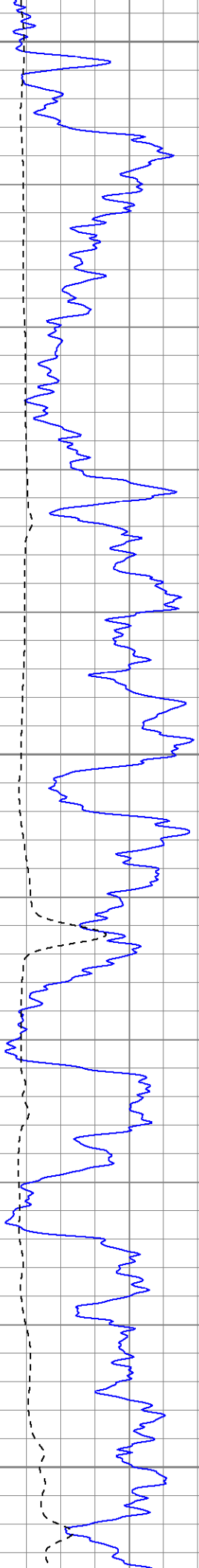
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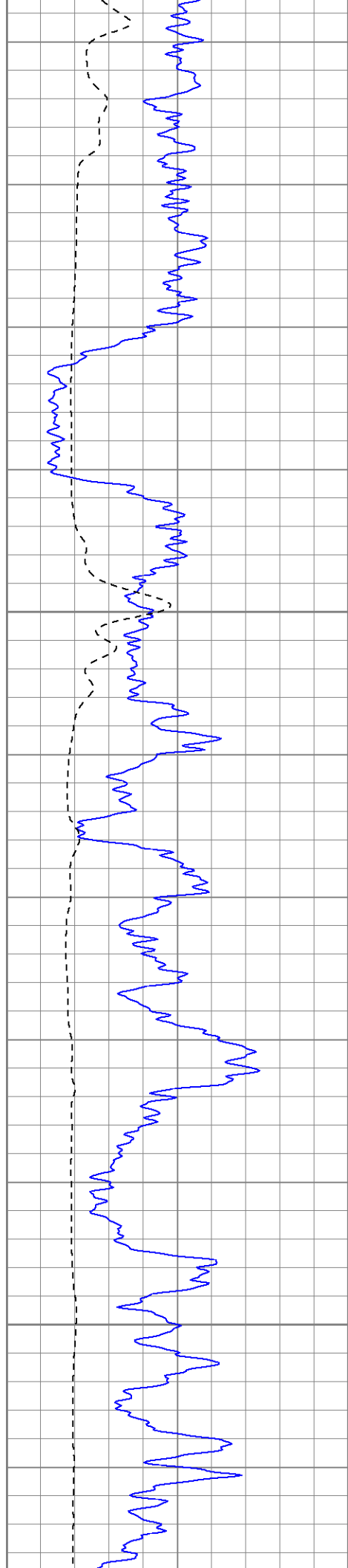


1600

1650

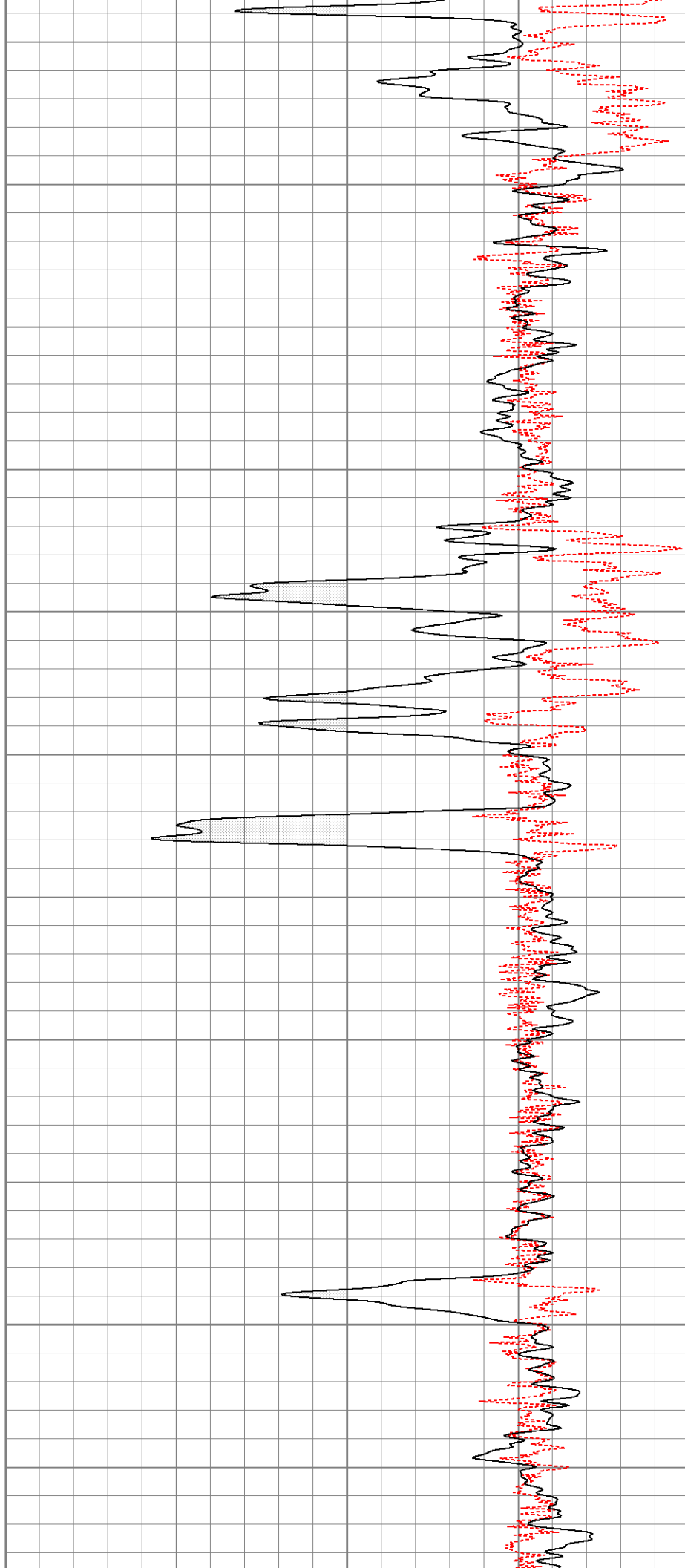
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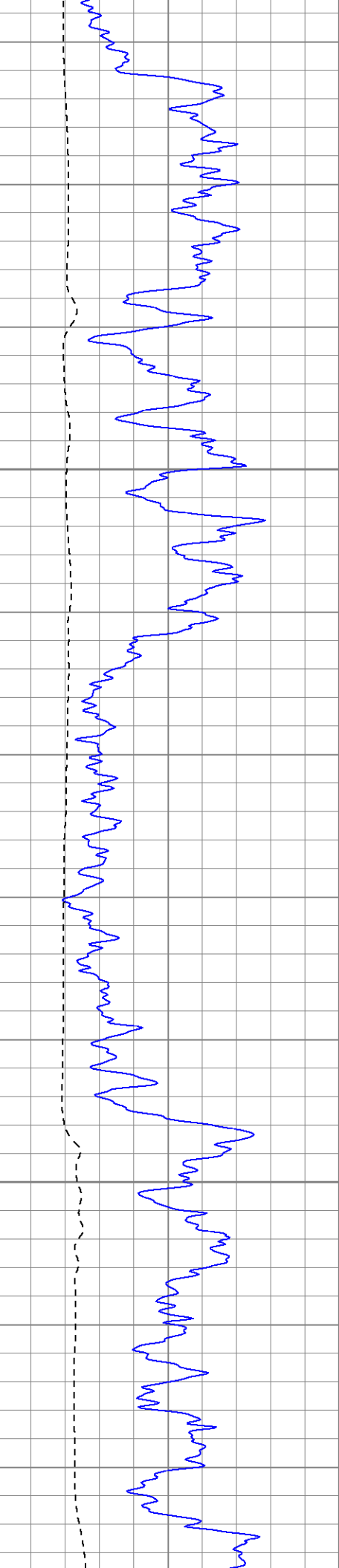




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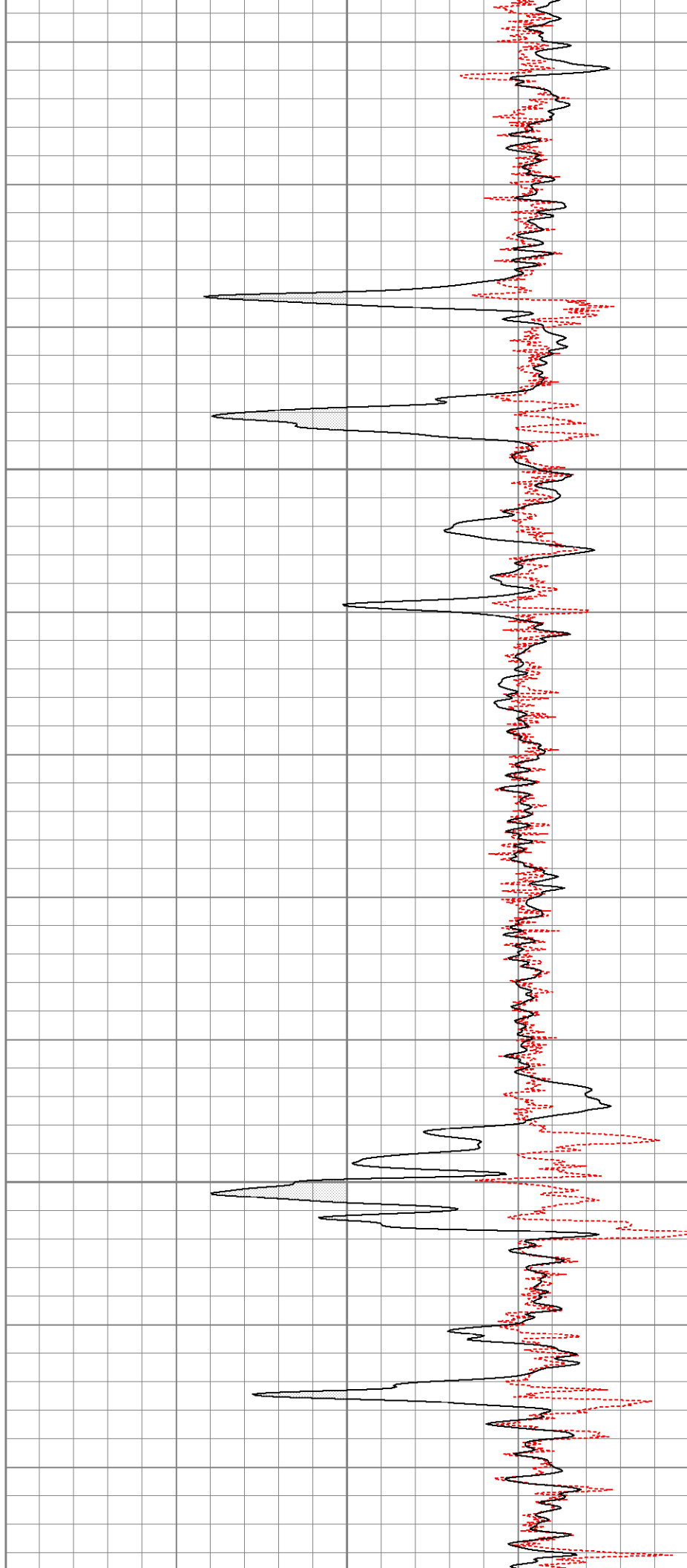
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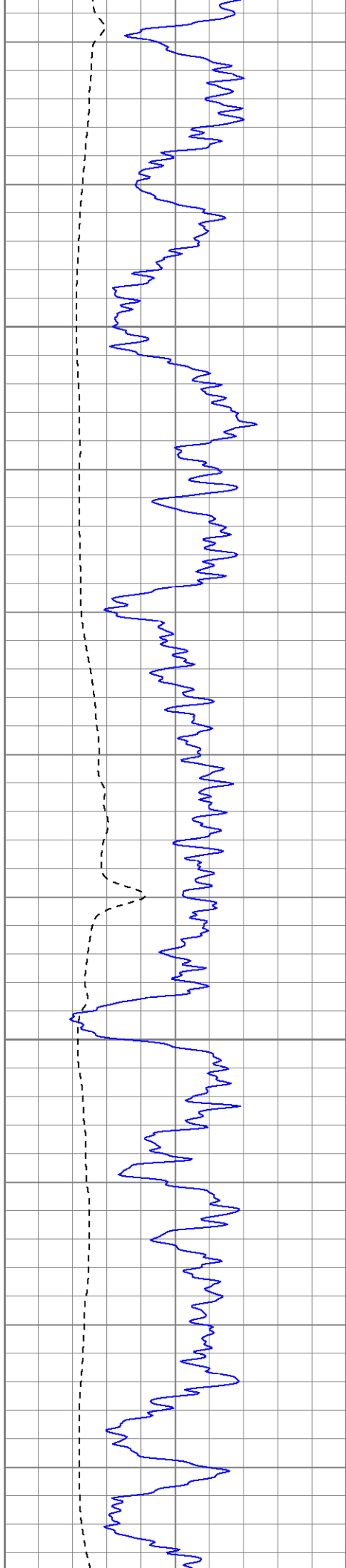




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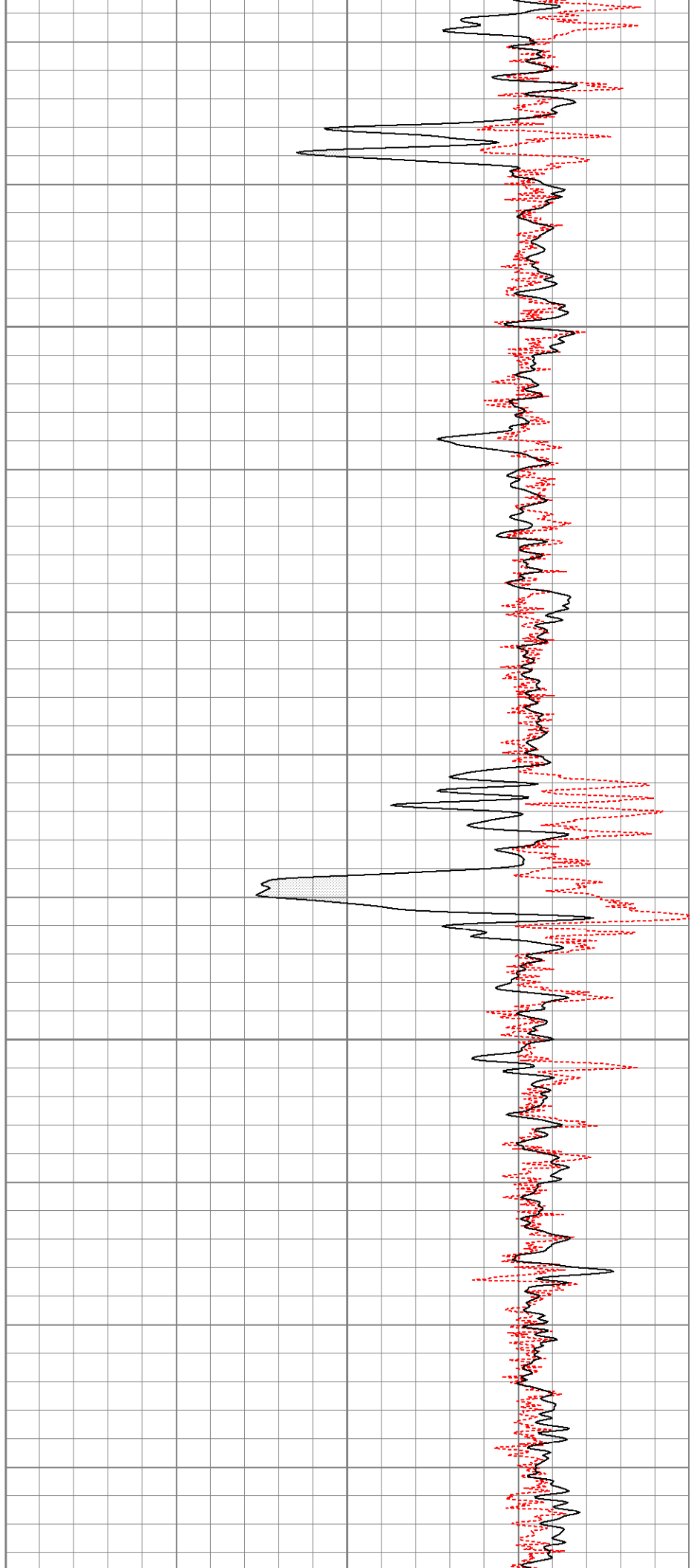
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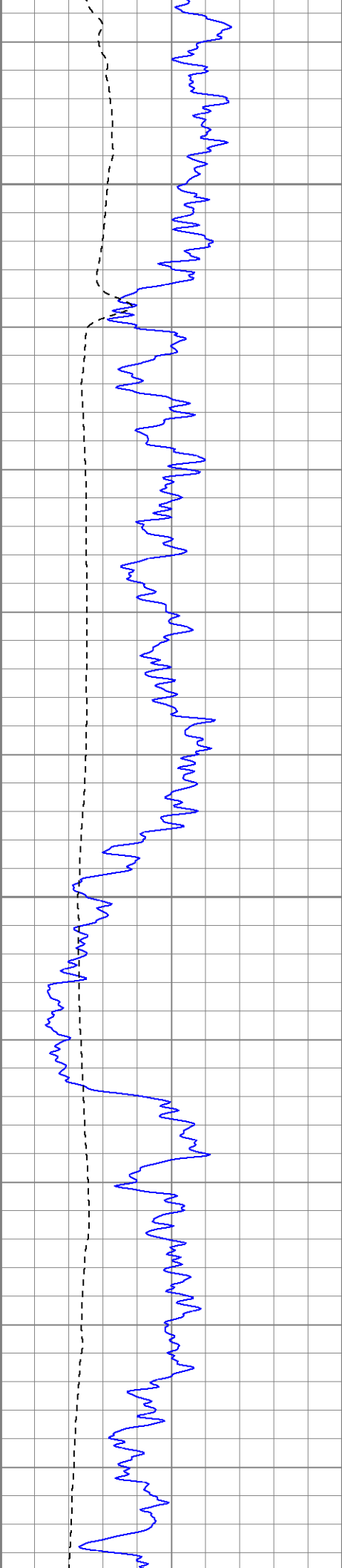




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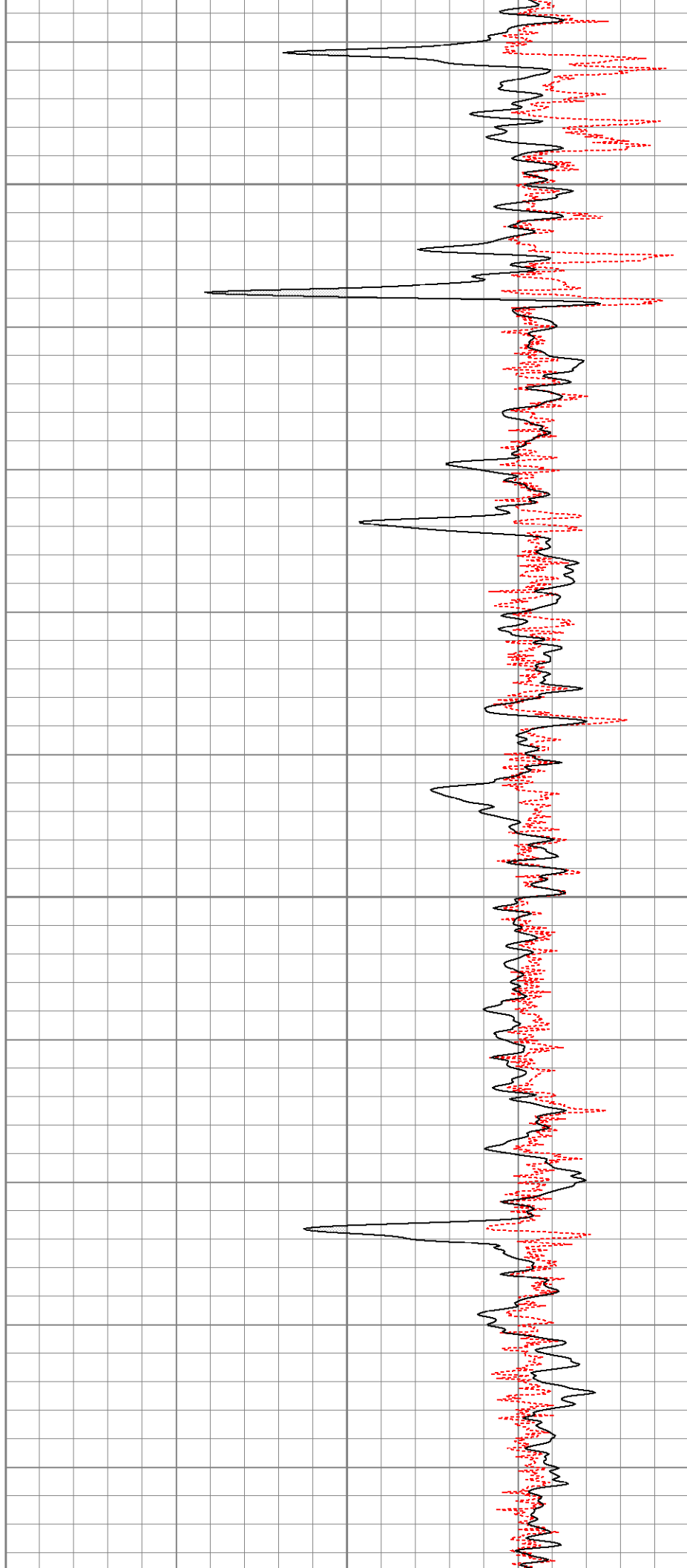
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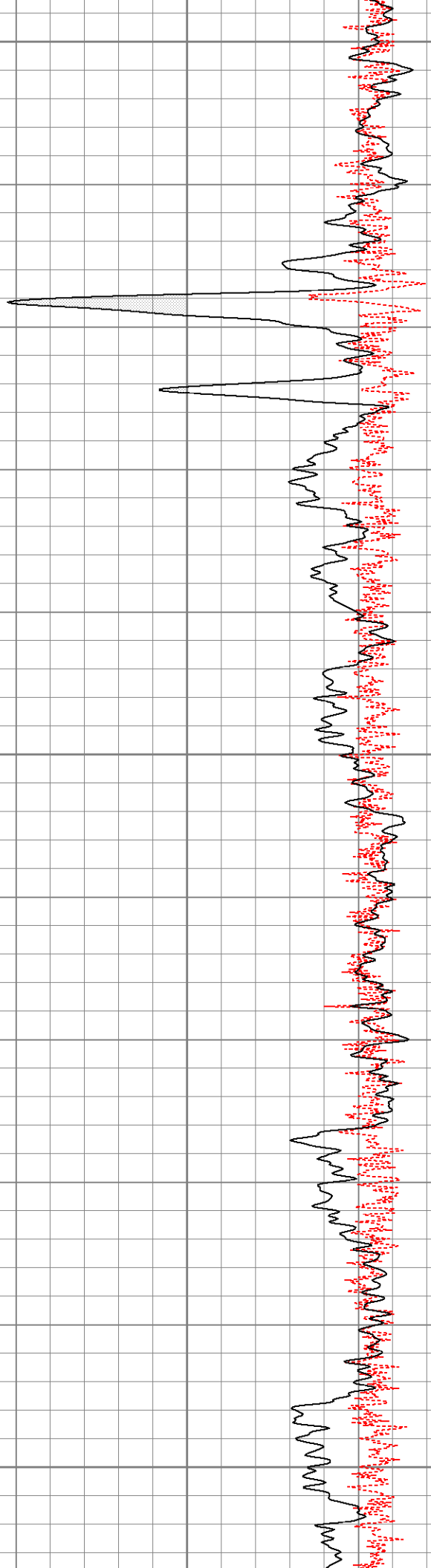
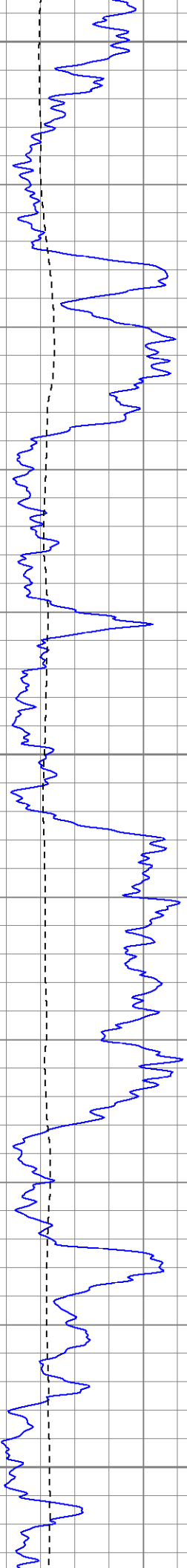
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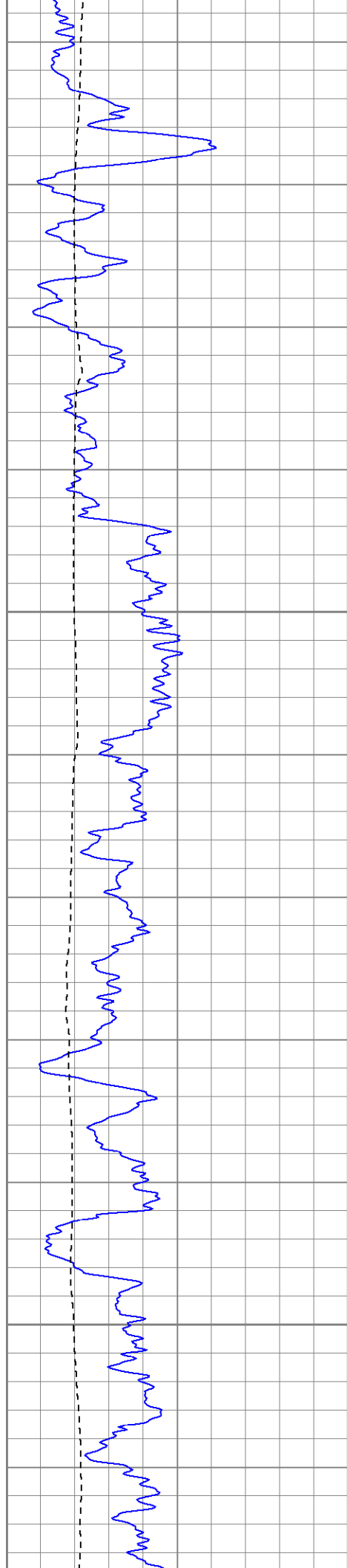


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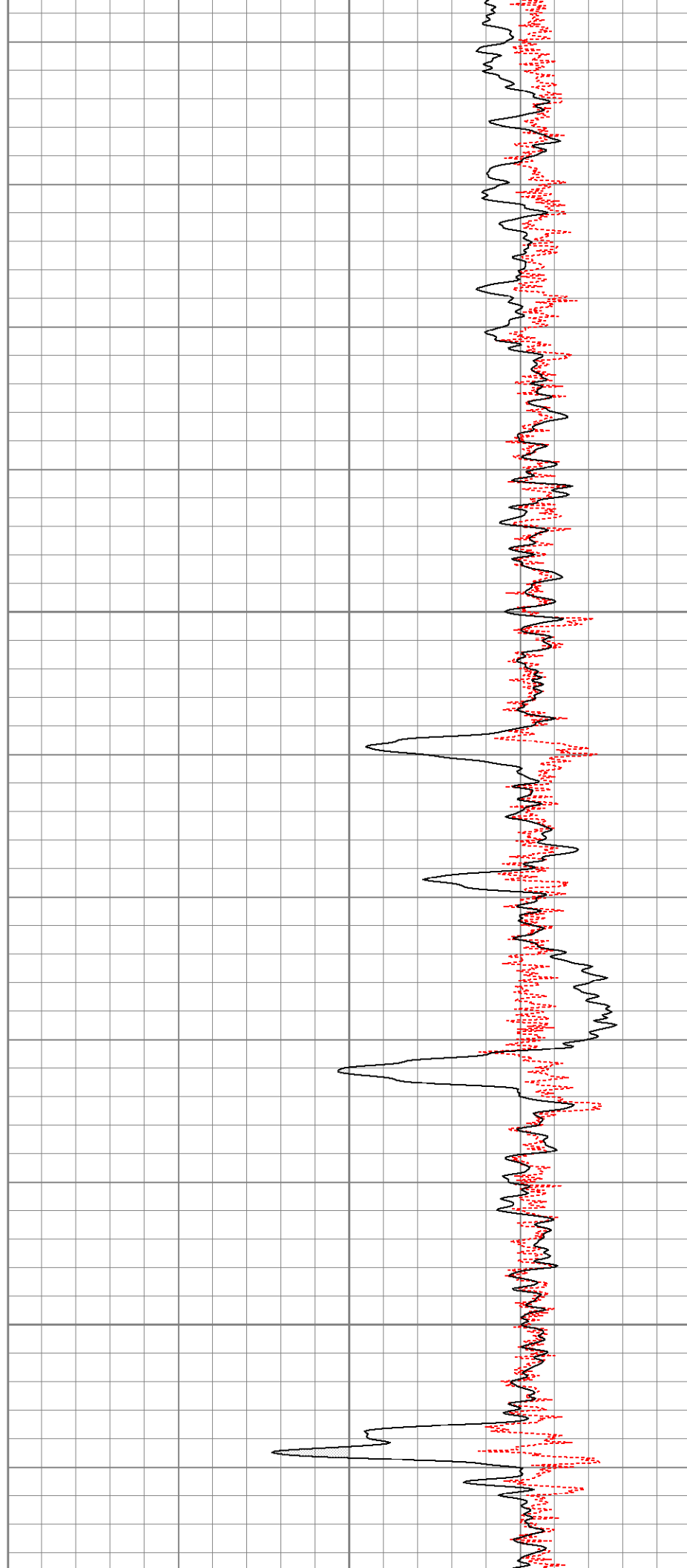
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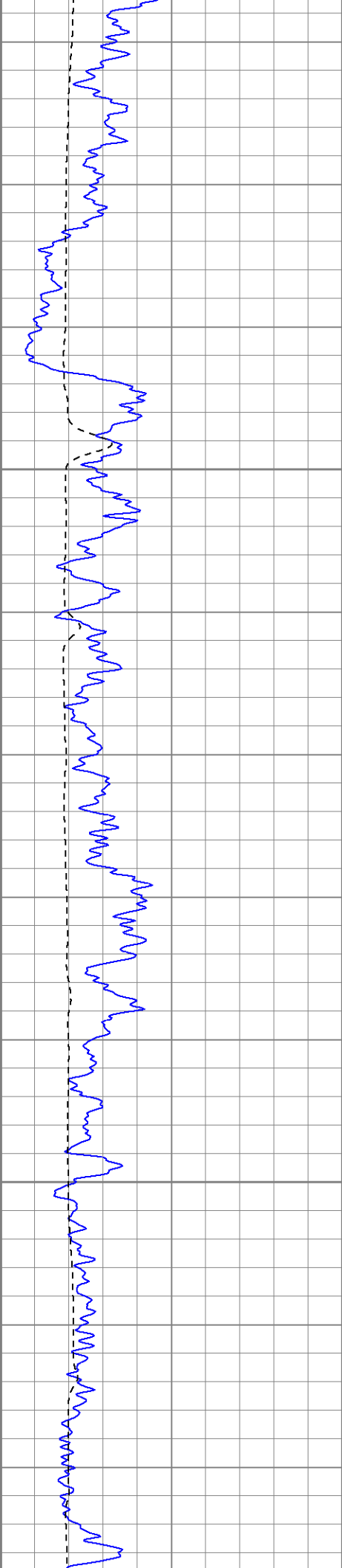




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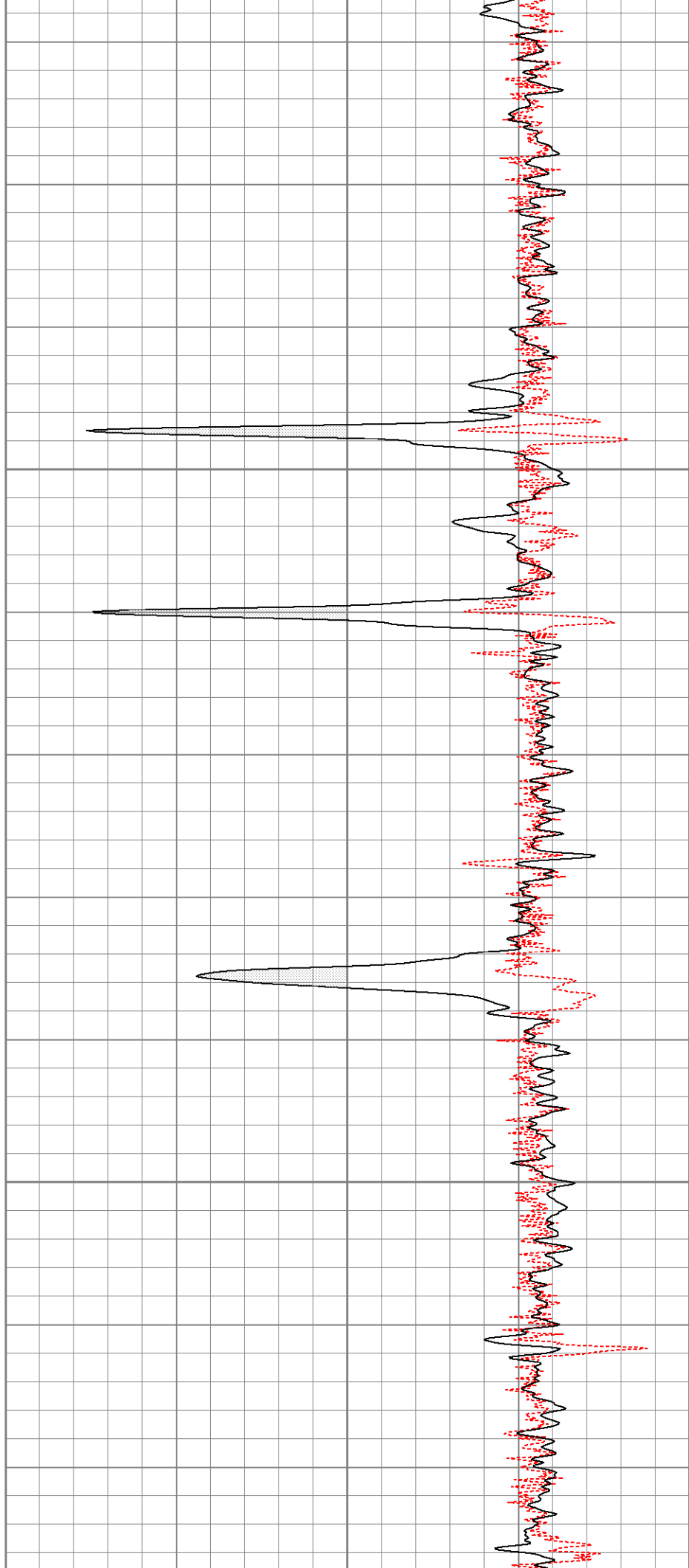
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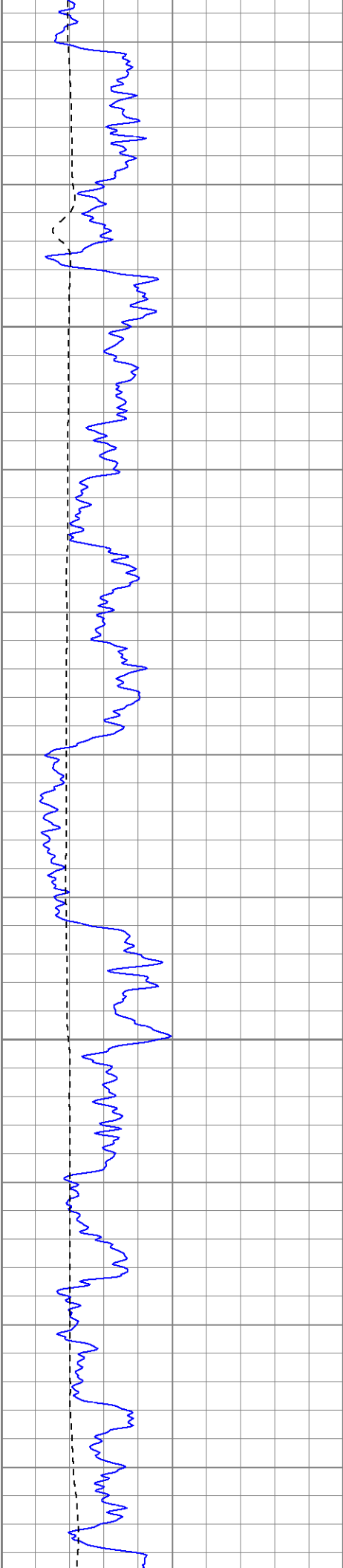




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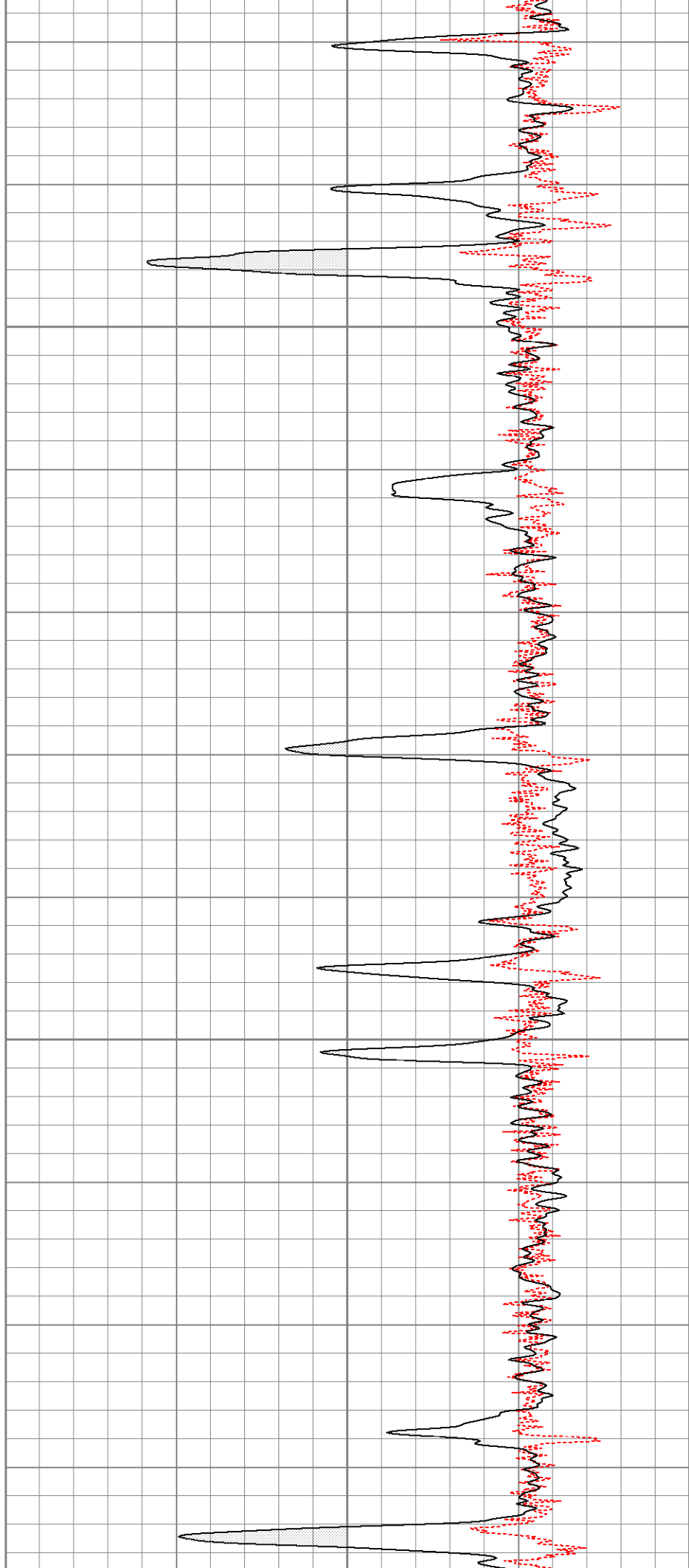
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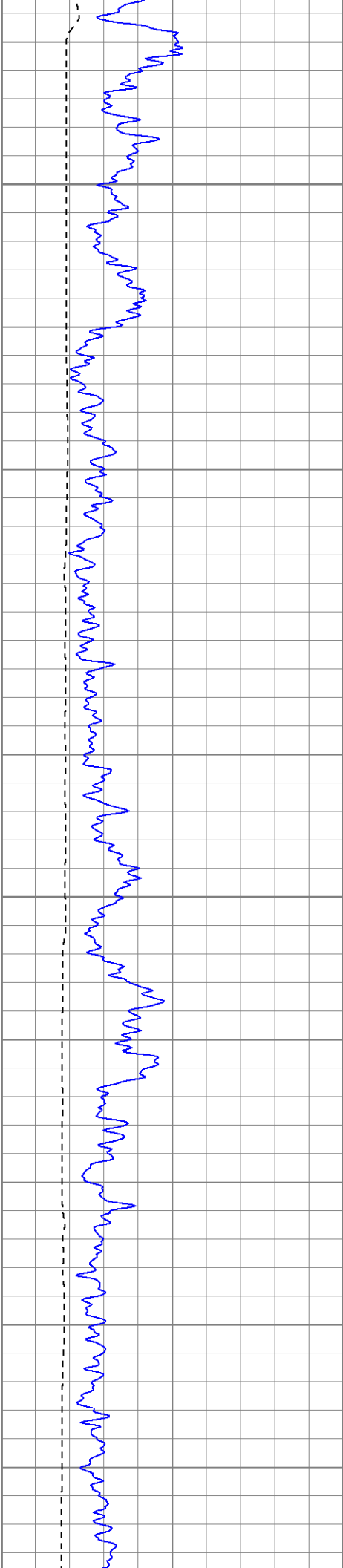




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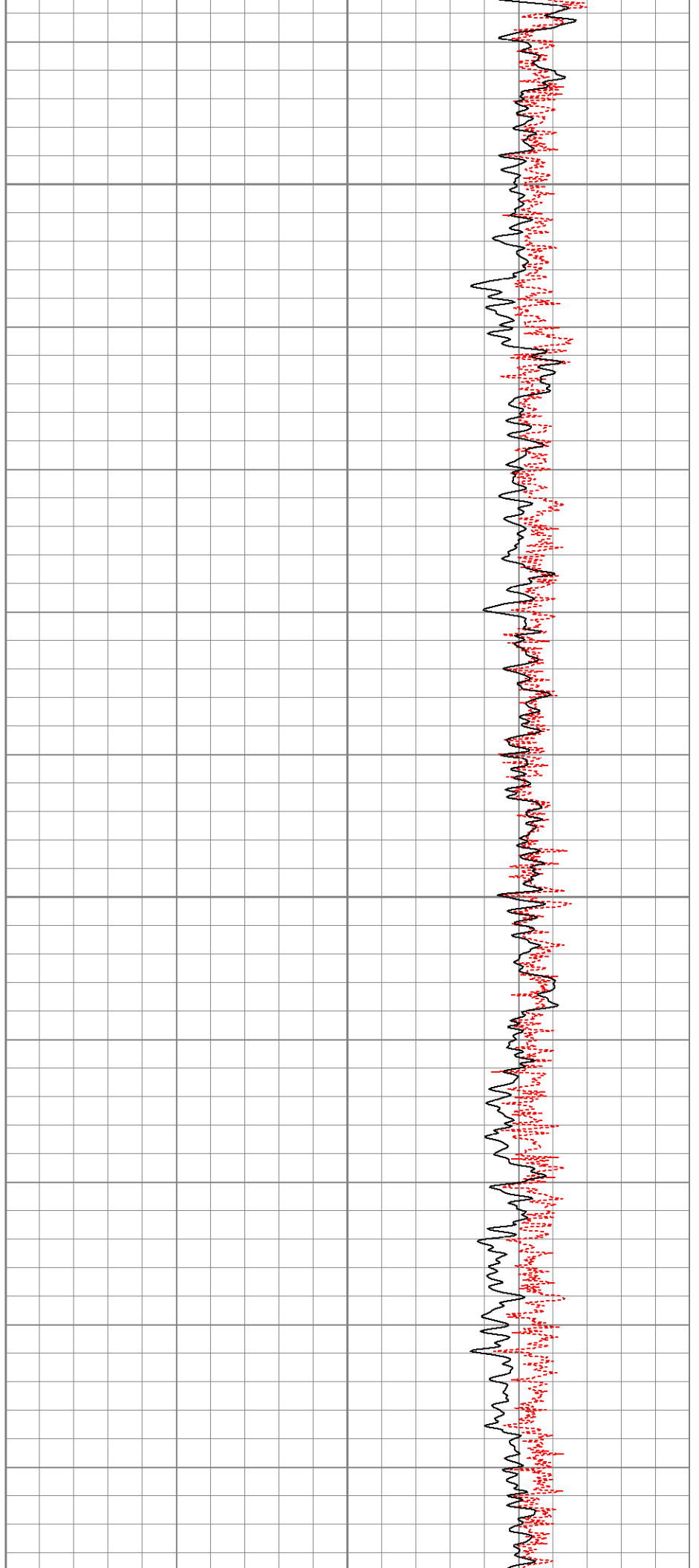
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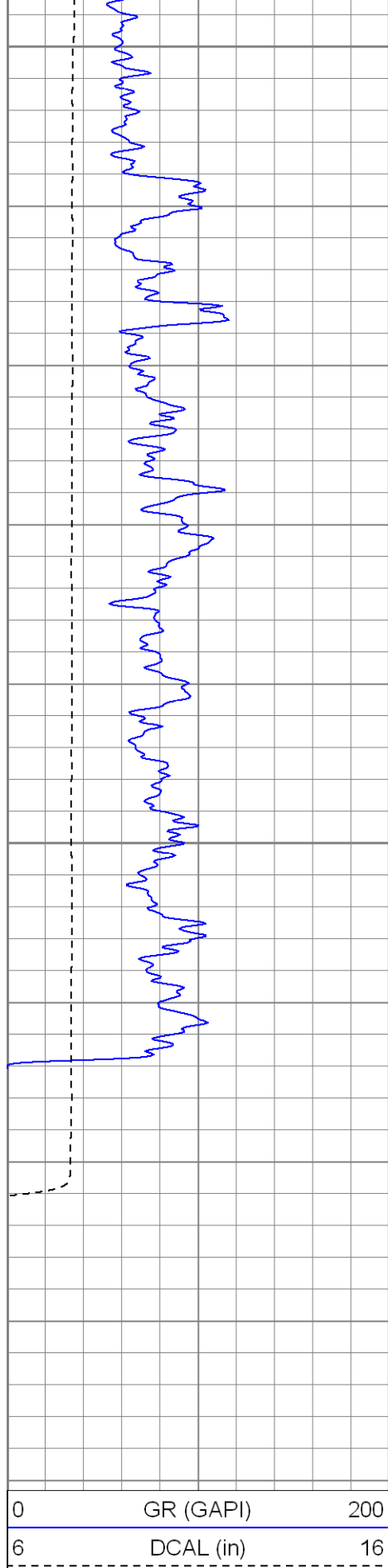




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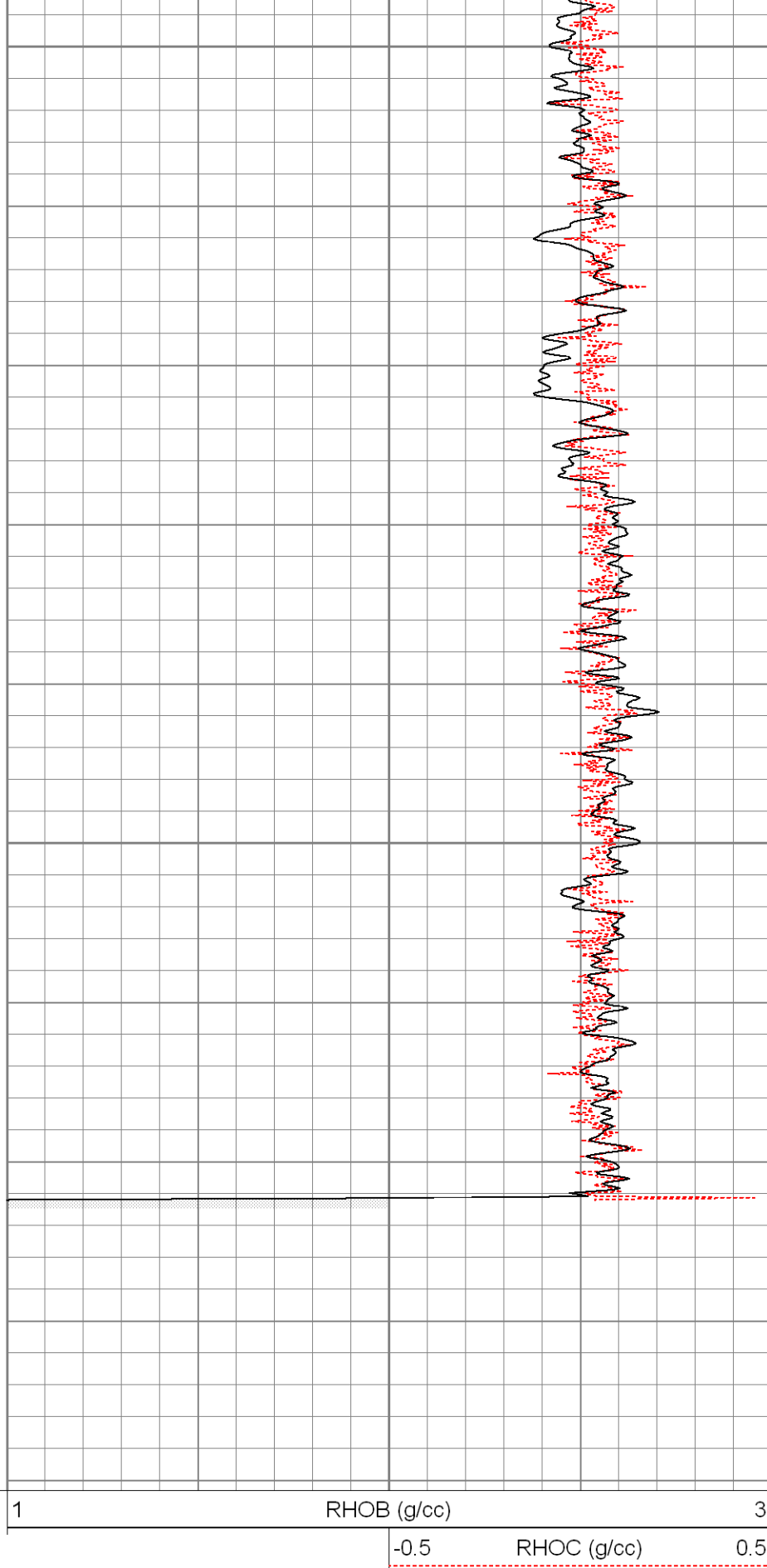
2650





2700

2750



Calibration Report

Database File: lickitysplitdi.db
Dataset Pathname: pass2

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 Performed: Fri Dec 04 08:50:44 2009

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) |
|--------|-------------|-------------------------------------------------------------------------------------|-------------|----------|---------|---------|
| | |  | None | 0.75 | 1.50 | 5.00 |

| Tool Joint | Tool Joint Length (ft) | Tool Joint Weight (lb) | Tool Joint O.D. (in) | Tool Joint | Tool Joint Length (ft) | Tool Joint Weight (lb) | Tool Joint O.D. (in) |
|------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|----------------------|-------------------------------------------------|------------------------|------------------------|----------------------|
| GR | 26.85 | | | GR-OH (2001) | 3.56 | 3.25 | 40.00 |
| | | | | CDL-DHT (2501DHT) Digital High Temp CDL Tool | 9.69 | 4.00 | 201.00 |
| LSD | 18.31 | | | | | | |
| DCAL | 18.02 | | | | | | |
| SSD | 17.77 | | | | | | |
| HEADVOLT | 16.00 | | | | | | |
| | | | | IEL-GL121 (121) | 16.00 | 4.00 | 178.00 |
| DIC | 6.89 | | | | | | |
| SP | 1.50 | | | | | | |
| SN | 1.00 | | | | | | |
| Dataset: lickitysplitdi.db: field/well/run1/pass2 Total Length: 30.00 ft Total Weight: 424.00 lb O.D. 4.00 in | | | | | | | |