# BOREHOLE COMPENSATED SONIC LOG

Company H & D Exploration LLC.
Well Dozier #1
Field Unknown
County Stafford State Kansas

Location: API # : 15 185 23961

1630' FNL & 1087' FWL

SEC 21 TWP 25S RGE 11W

Other Services
CDNL
DIL
ML

Elevation
K.B. 1824'
D.F. 1823'
G.L. 1816'

| | | |
|---|---|---|
| Permanent Datum | Ground Level | Elevation 1816' |
| Log Measured From | KB 8' AGL | |
| Drilling Measured From | KB | |

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| | | | |
|---|---|---|---|
| Date | 6-14-16 | | |
| Run Number | Two | | |
| Depth Driller | 4200' | | |
| Depth Logger | 4202' | | |
| Bottom Logged Interval | 4192' | | |
| Top Log Interval | 700' | | |
| Casing Driller | 8 5/8" @ 727' | | |
| Casing Logger | 727' | | |
| Bit Size | 7 7/8" | | |
| Type Fluid in Hole | Chemical | | |
| Density / Viscosity | 9.3/51 | | |
| pH / Fluid Loss | 9.8/9.6 | | |
| Source of Sample | Pit | | |
| Rm @ Meas. Temp | 2.1@72degf | | |
| Rmf @ Meas. Temp | 1.58@72degf | | |
| Rmc @ Meas. Temp | 2.52@72degf | | |
| Source of Rmf / Rmc | Calculated | | |
| Rm @ BHT | 1.35@112degf | | |
| Time Circulation Stopped | 2:30 a.m. | | |
| Time Logger on Bottom | 6:00 a.m. | | |
| Maximum Recorded Temperature | 112degf | | |
| Equipment Number | T127 | | |
| Location | Hays, KS | | |
| Recorded By | Gus Pfanenstiel | | |
| Witnessed By | Mr. Jim Musgrove | | |

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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

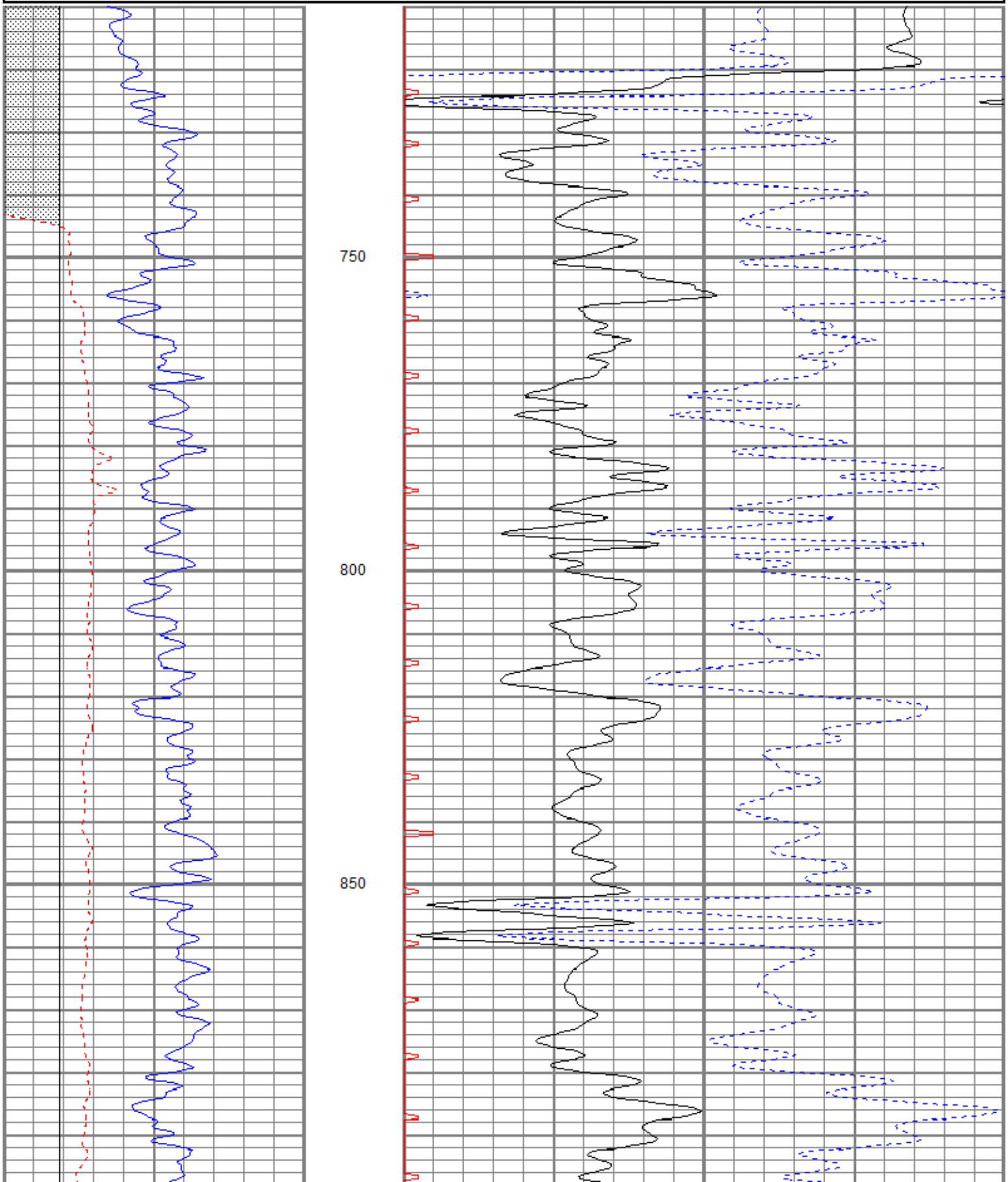
Thanks for using Gemini Wireline LLC
785-625-1182

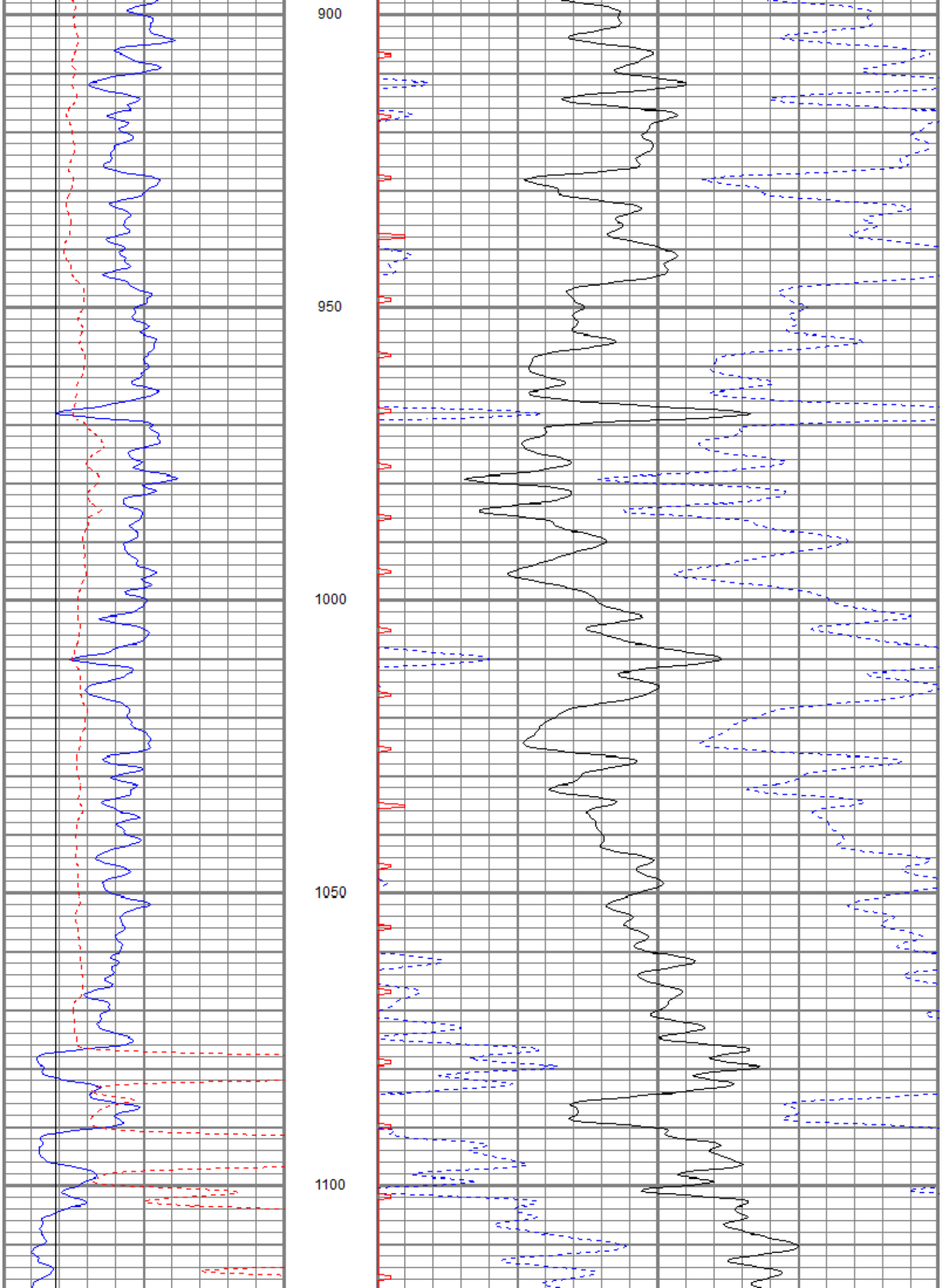
Main Pass

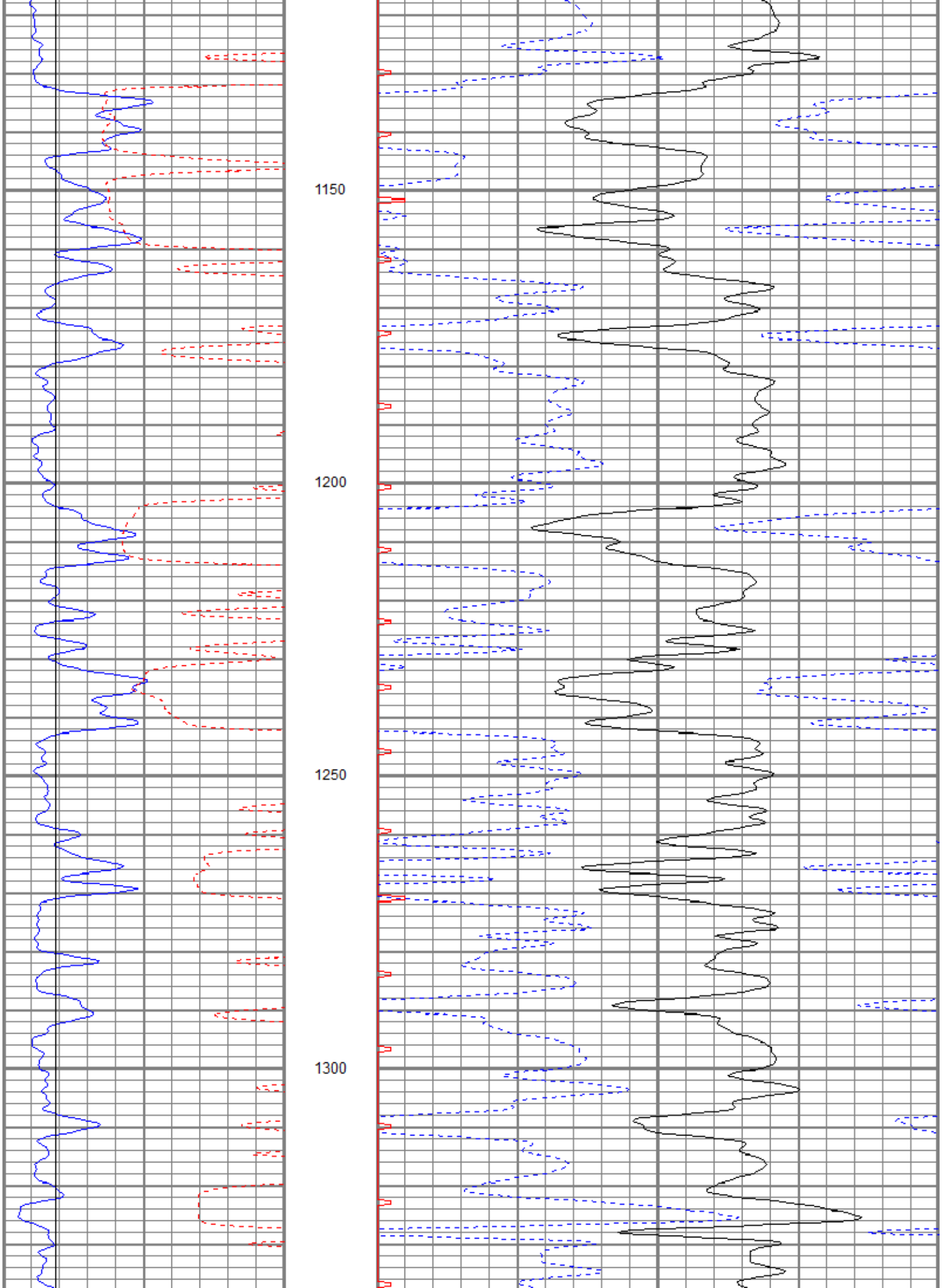
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|---|---|
| Database File | hddozier#1oh.db |
| Dataset Pathname | pass5 |
| Presentation Format | kbcs |
| Dataset Creation | Tue Jun 14 06:09:19 2016 |
| Charted by | Depth in Feet scaled 1:240 |

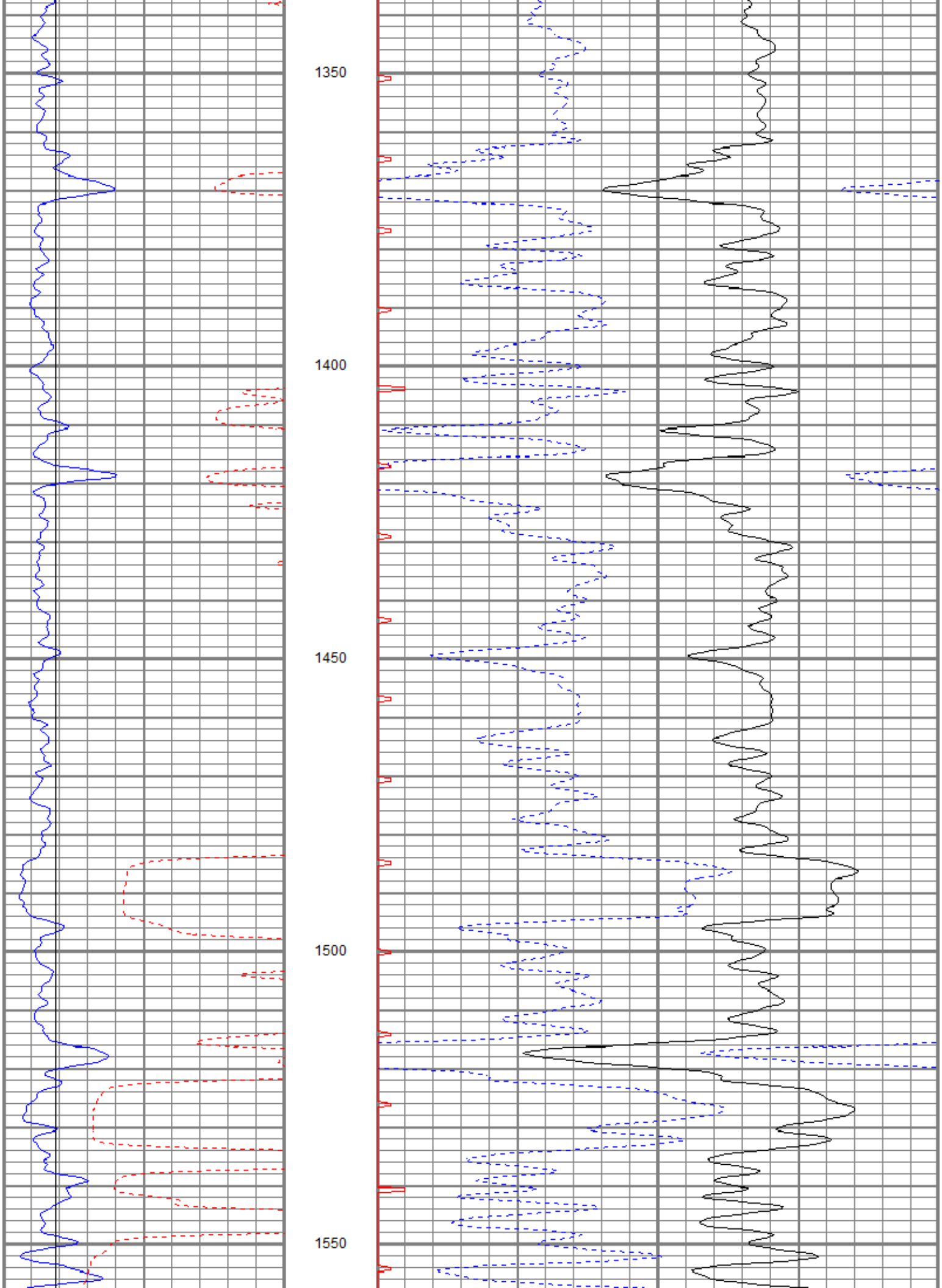
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|---|---|---|
| 0 | GR (GAPI) | 150 |
| 6 | MCAL (in) | 16 |
| 6 | BOREID (in) | 16 |

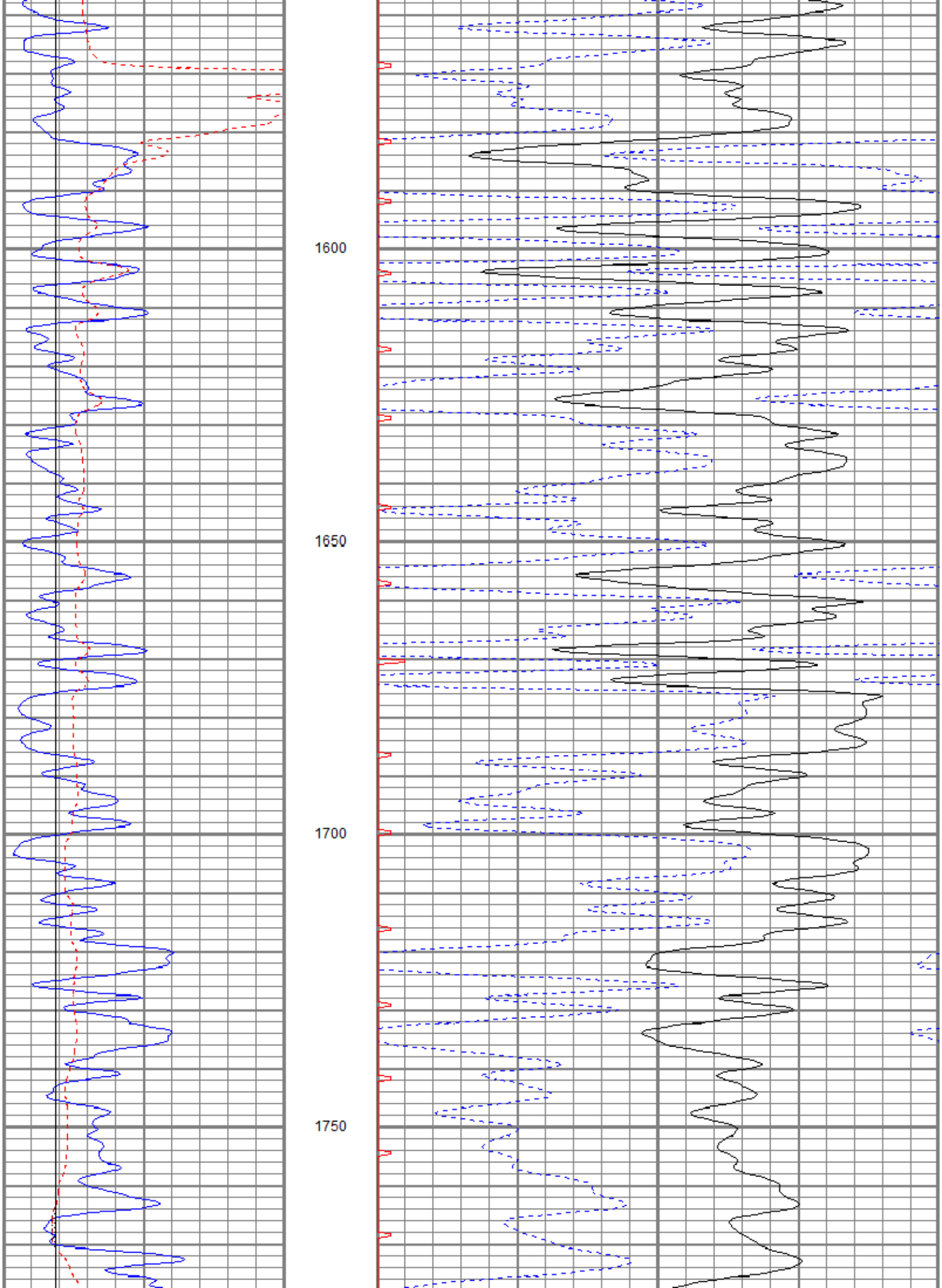
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|---|---|---|
| 140 | DT (usec/ft) | 40 |
| 30 | SPOR (pu) | -10 |
| 0 | ITT (msec) | 20 |

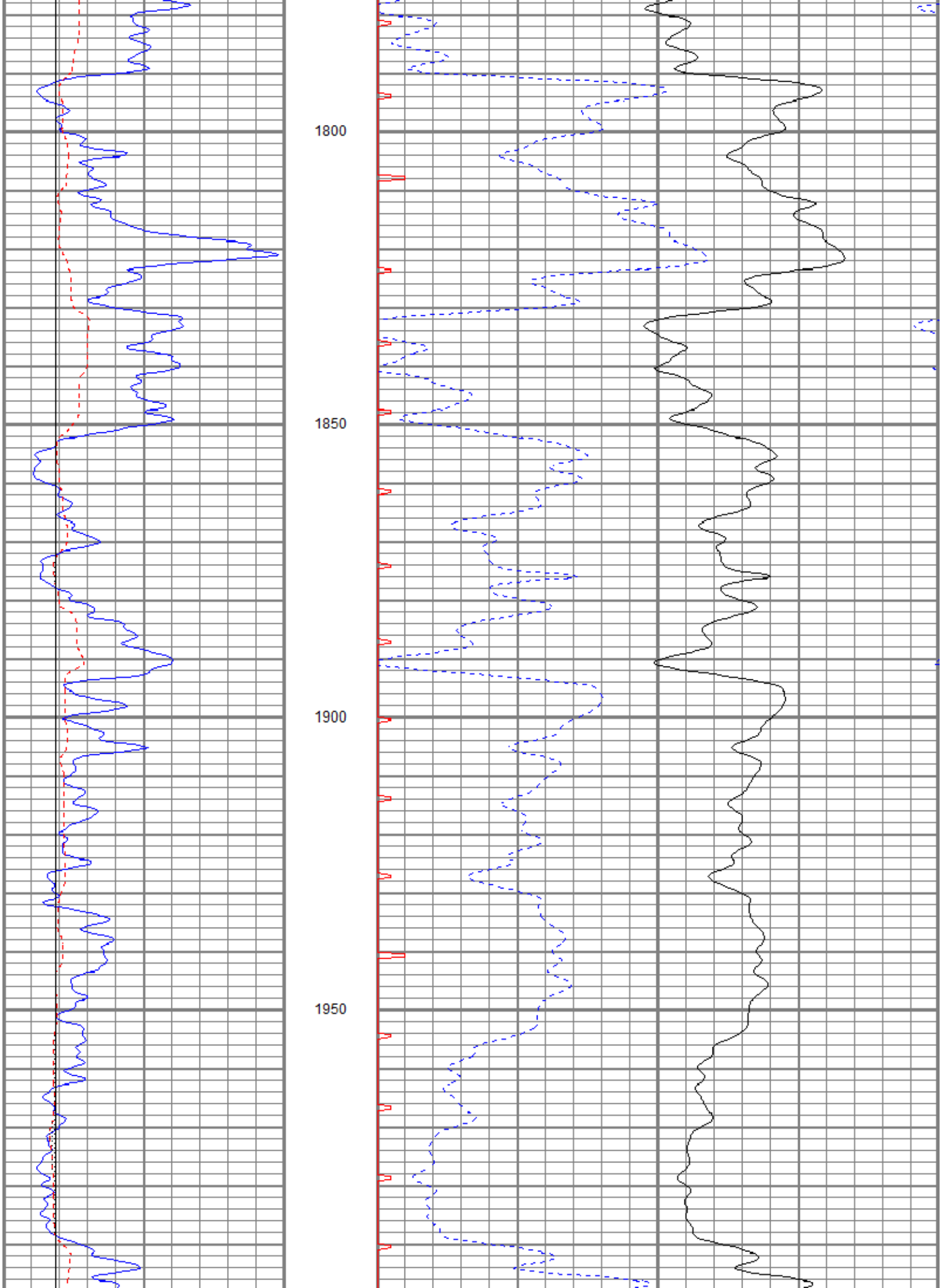


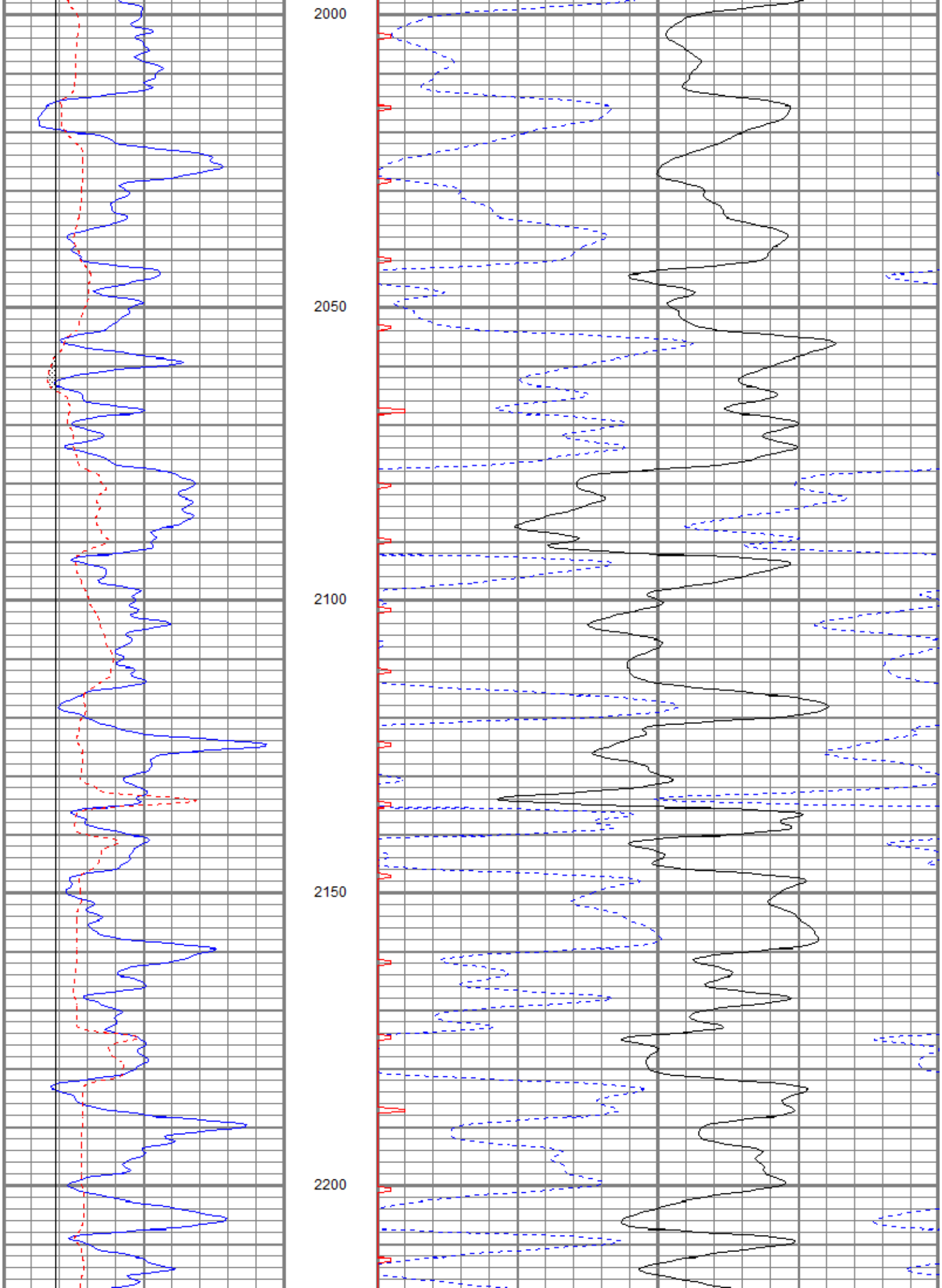

900
950
1000
1050
1100

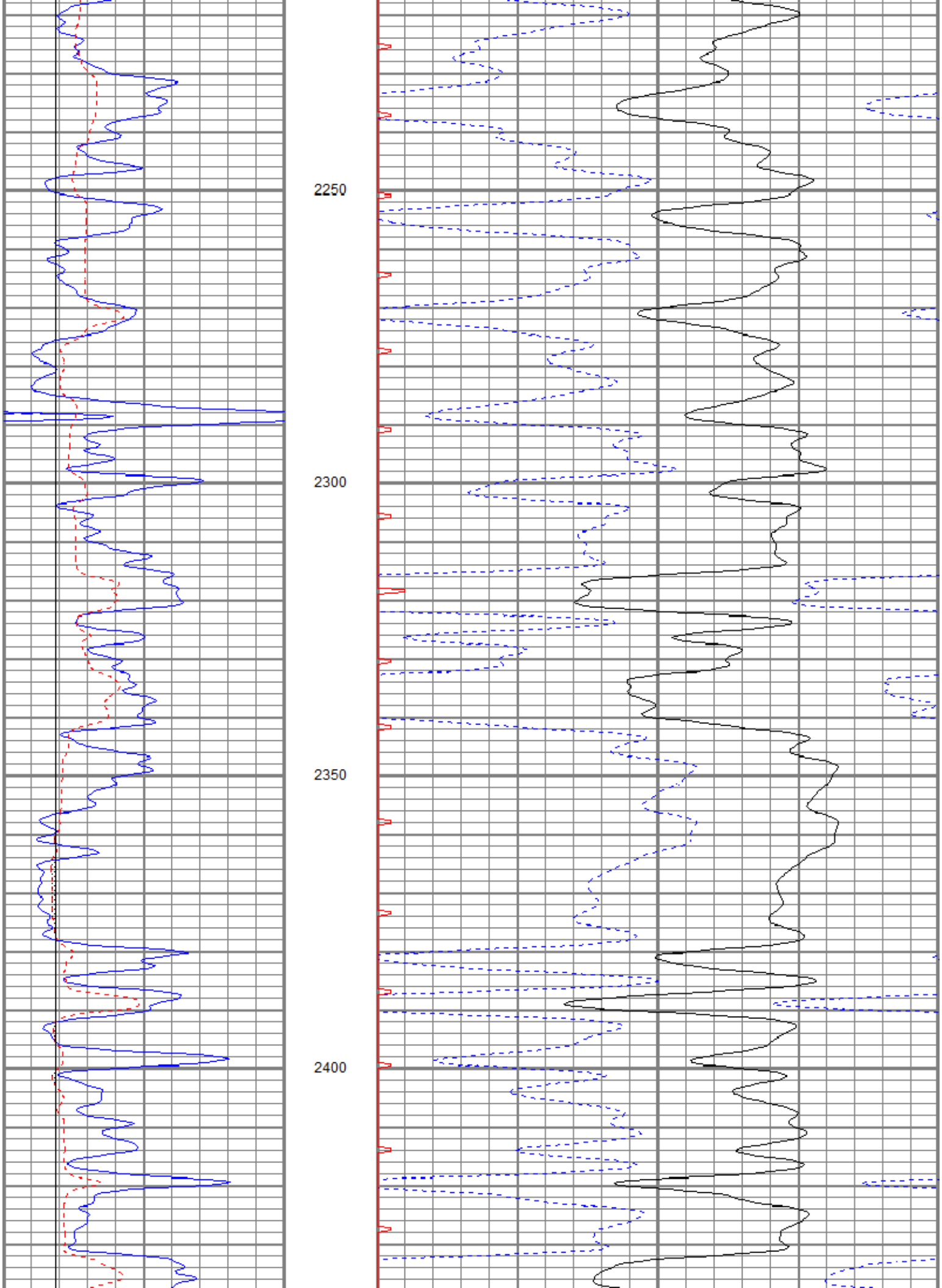

1150
1200
1250
1300

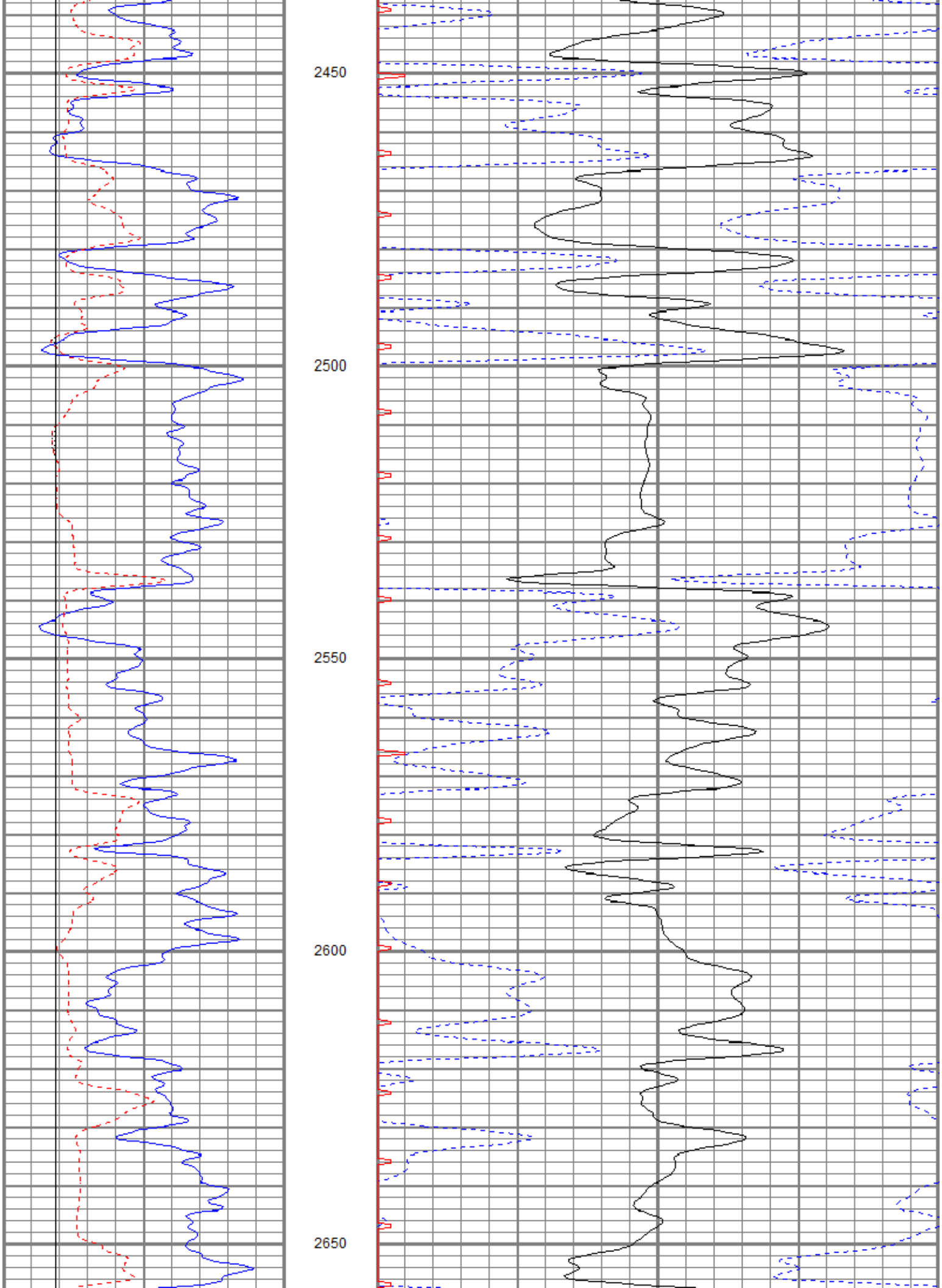

1350
1400
1450
1500
1550

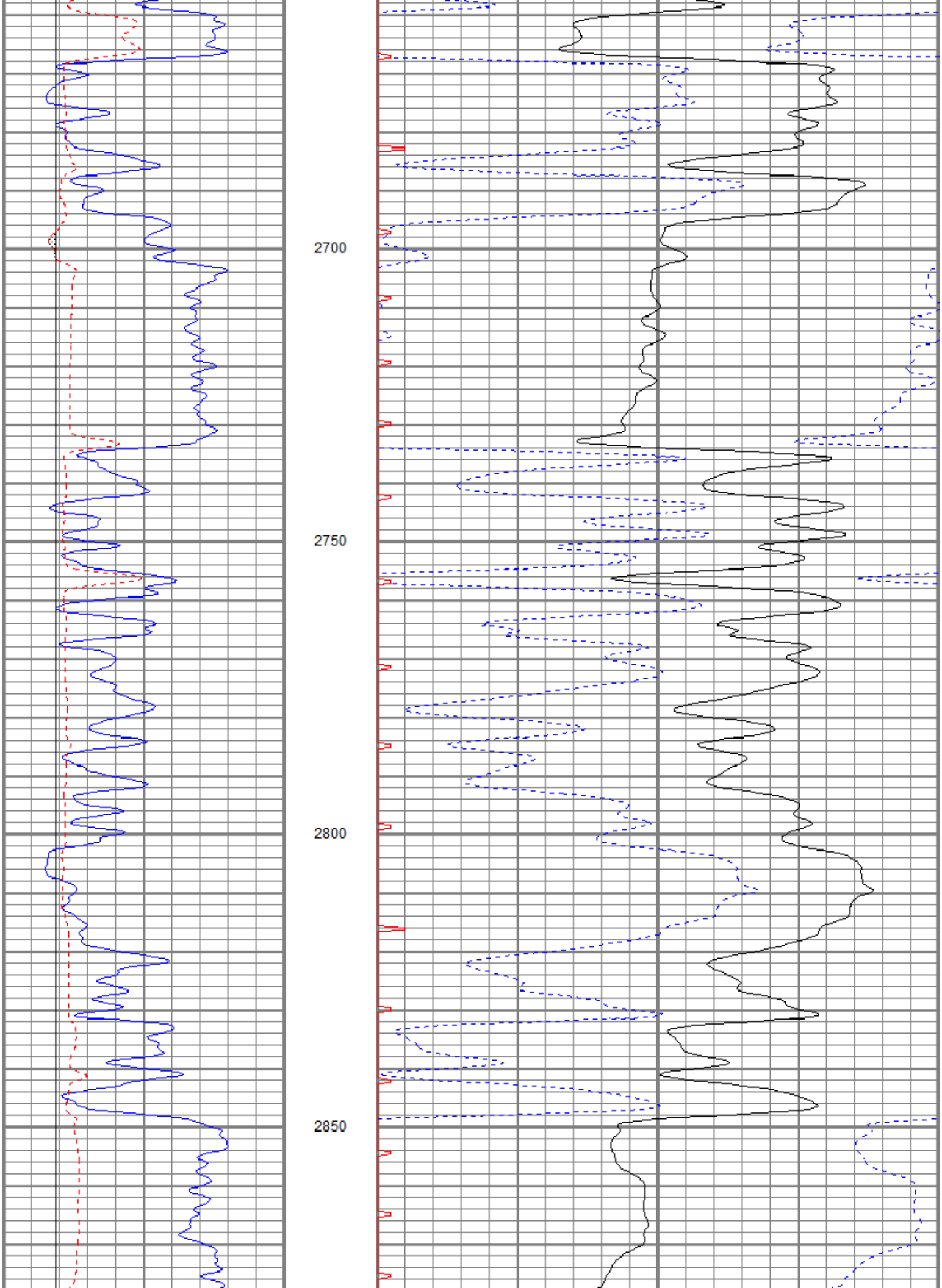

1600
1650
1700
1750

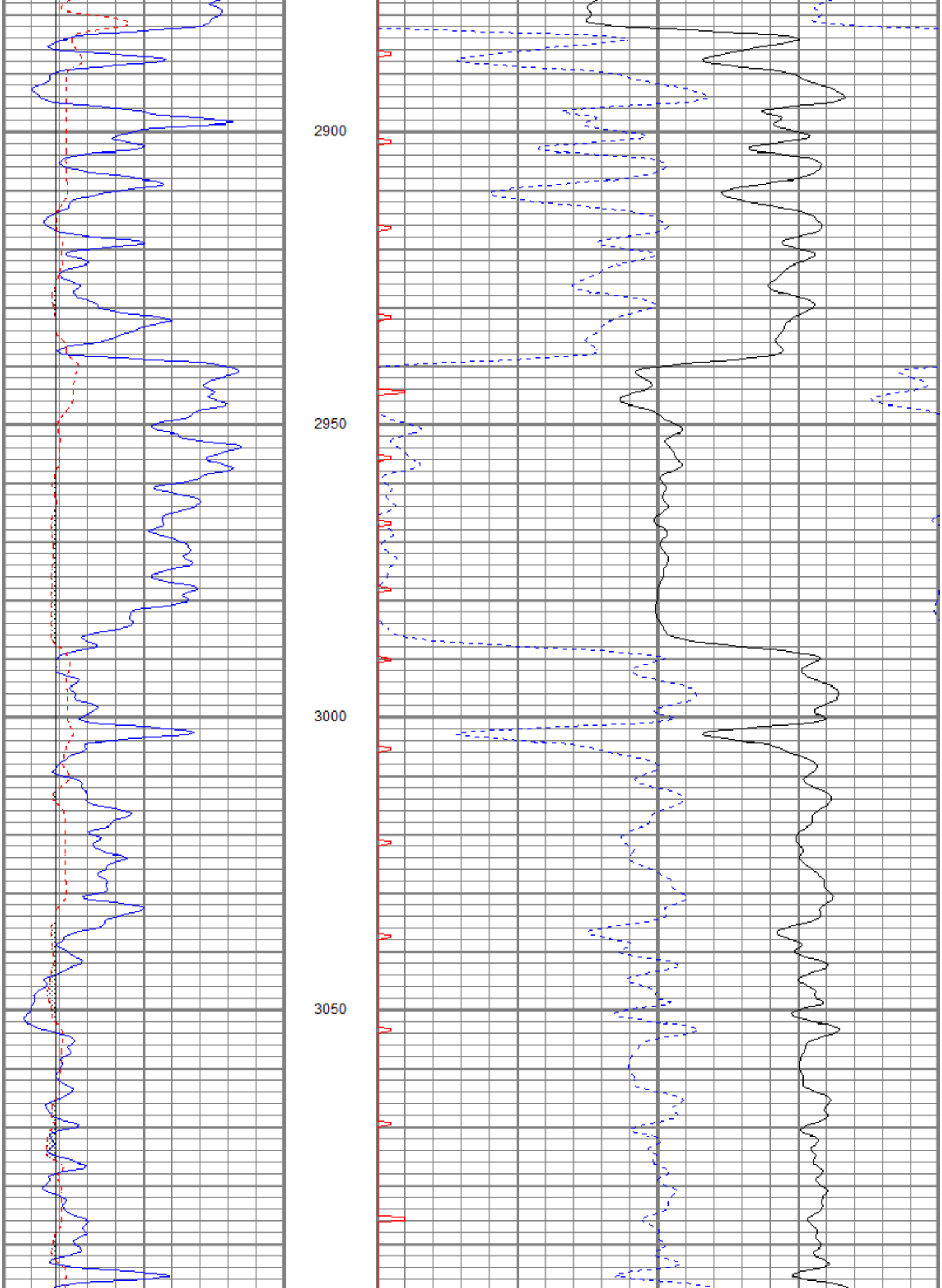

1800
1850
1900
1950

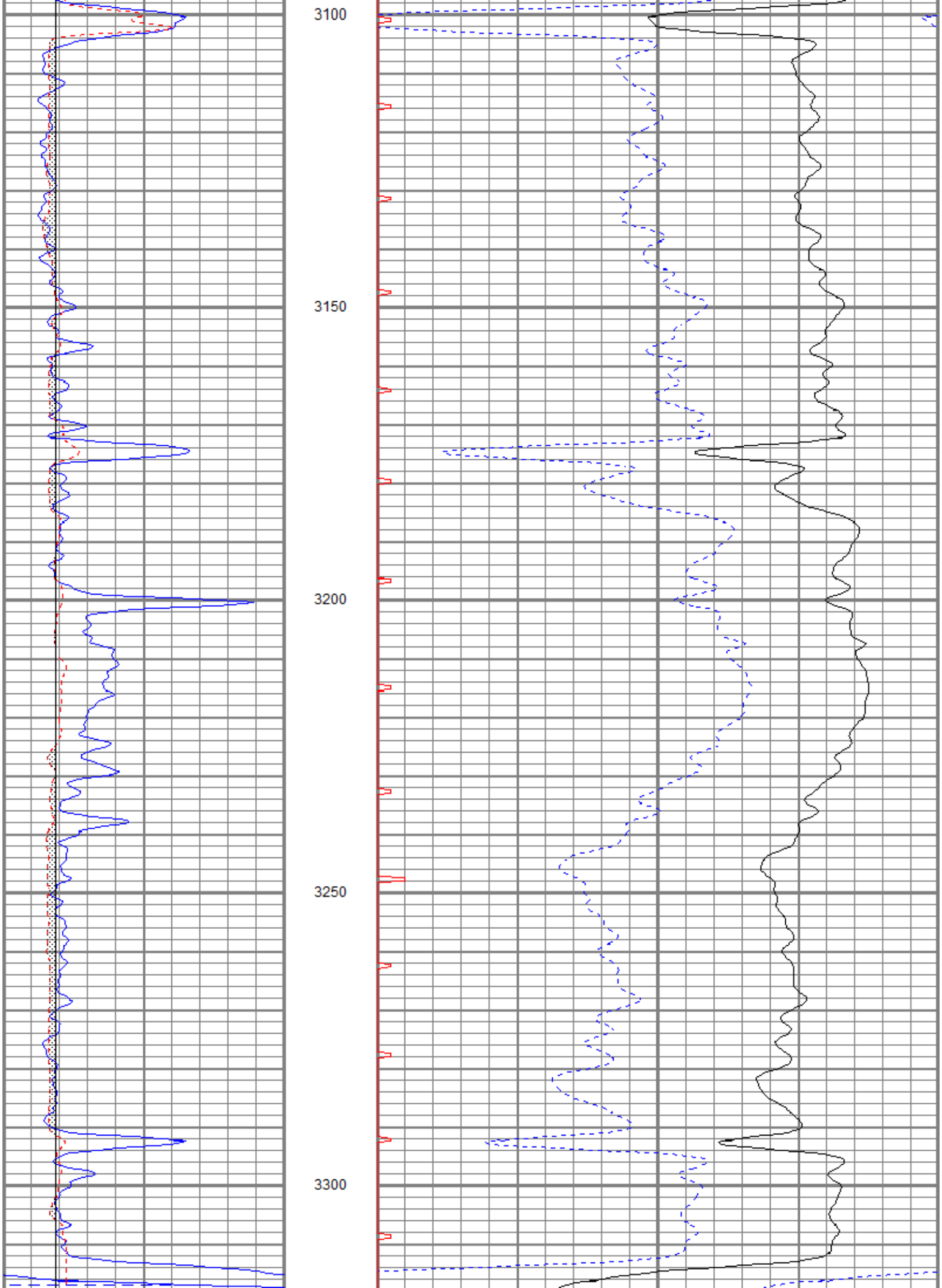

2000
2050
2100
2150
2200

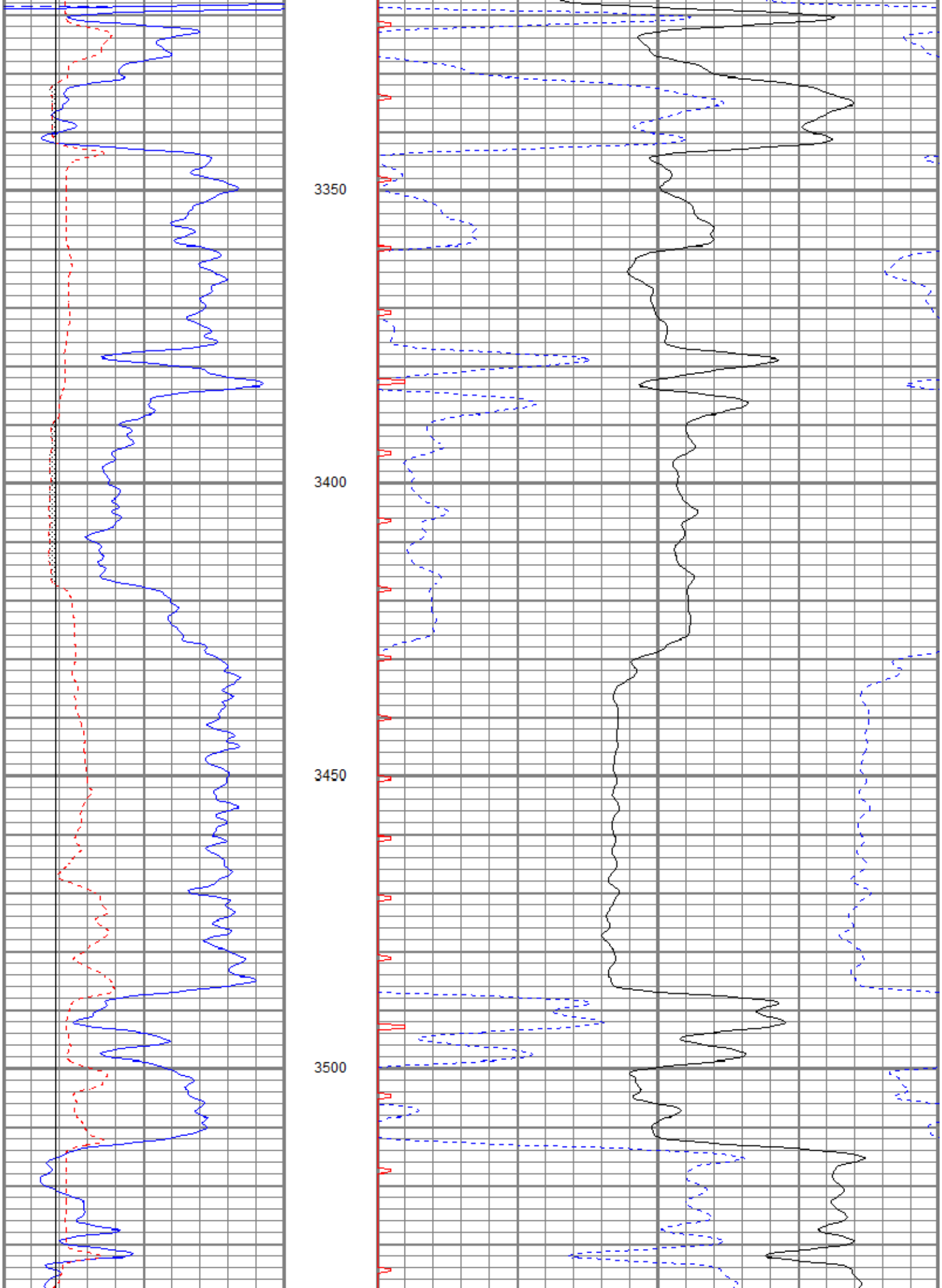

2250
2300
2350
2400

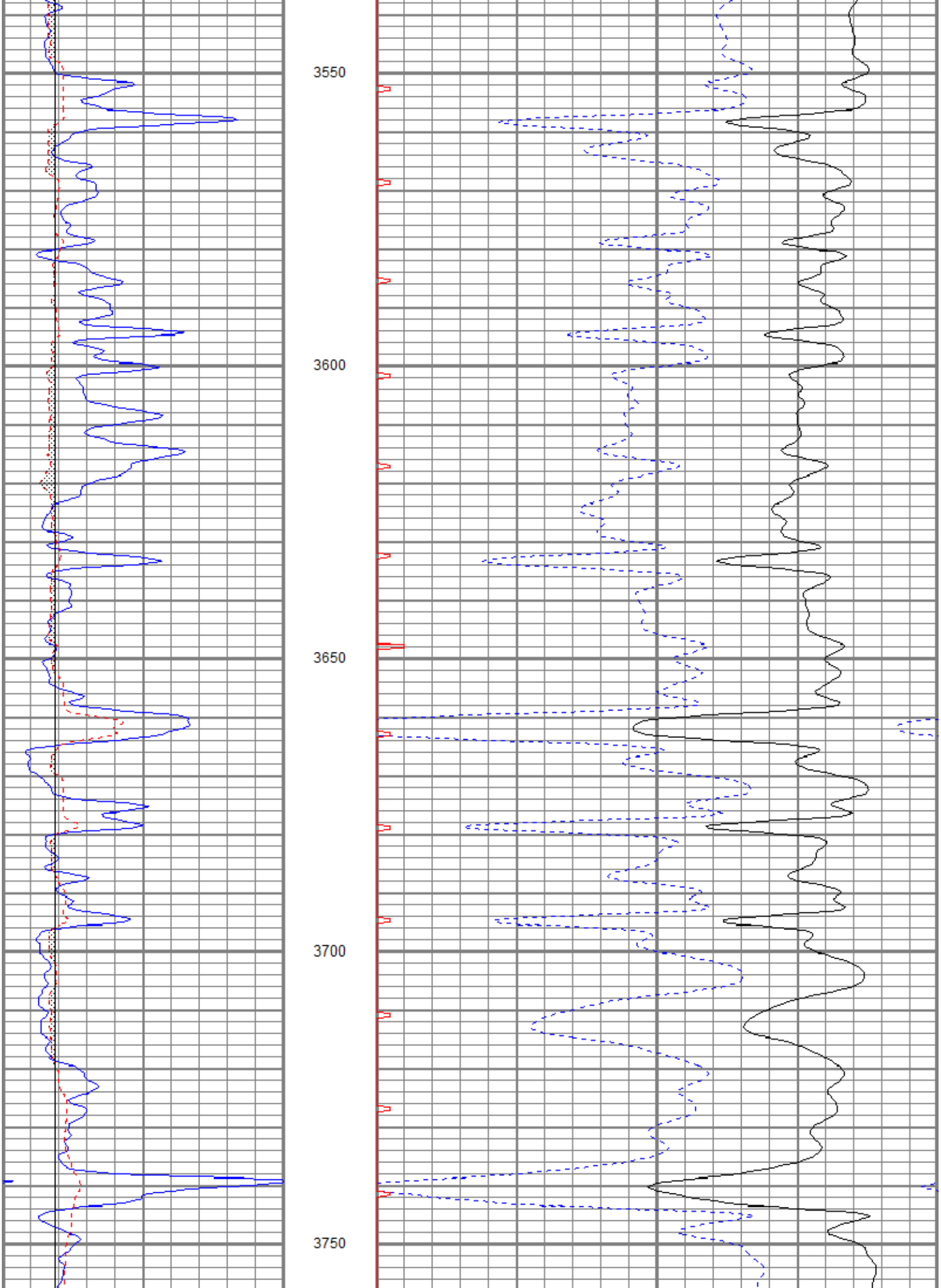

2450
2500
2550
2600
2650

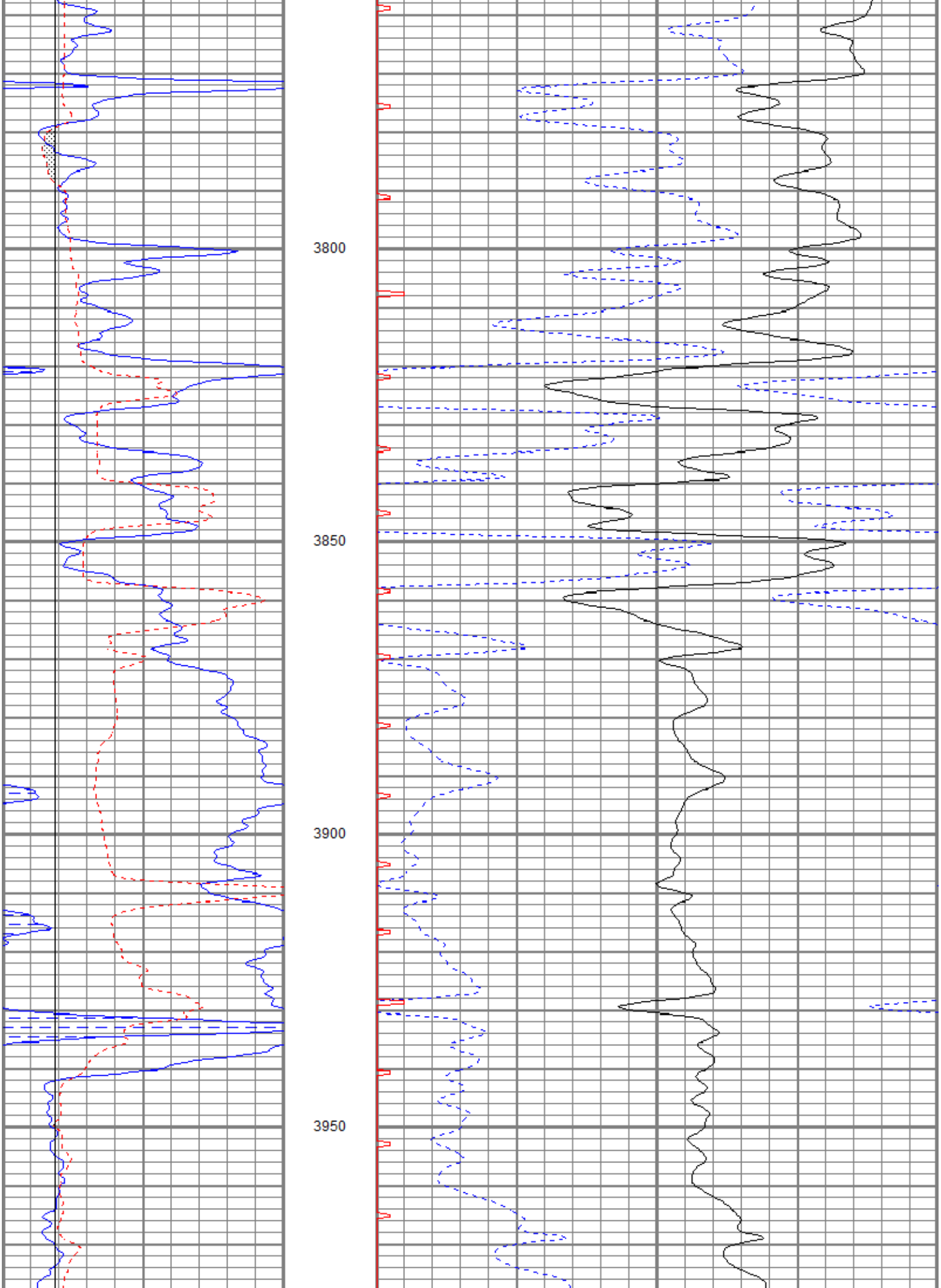

2700
2750
2800
2850

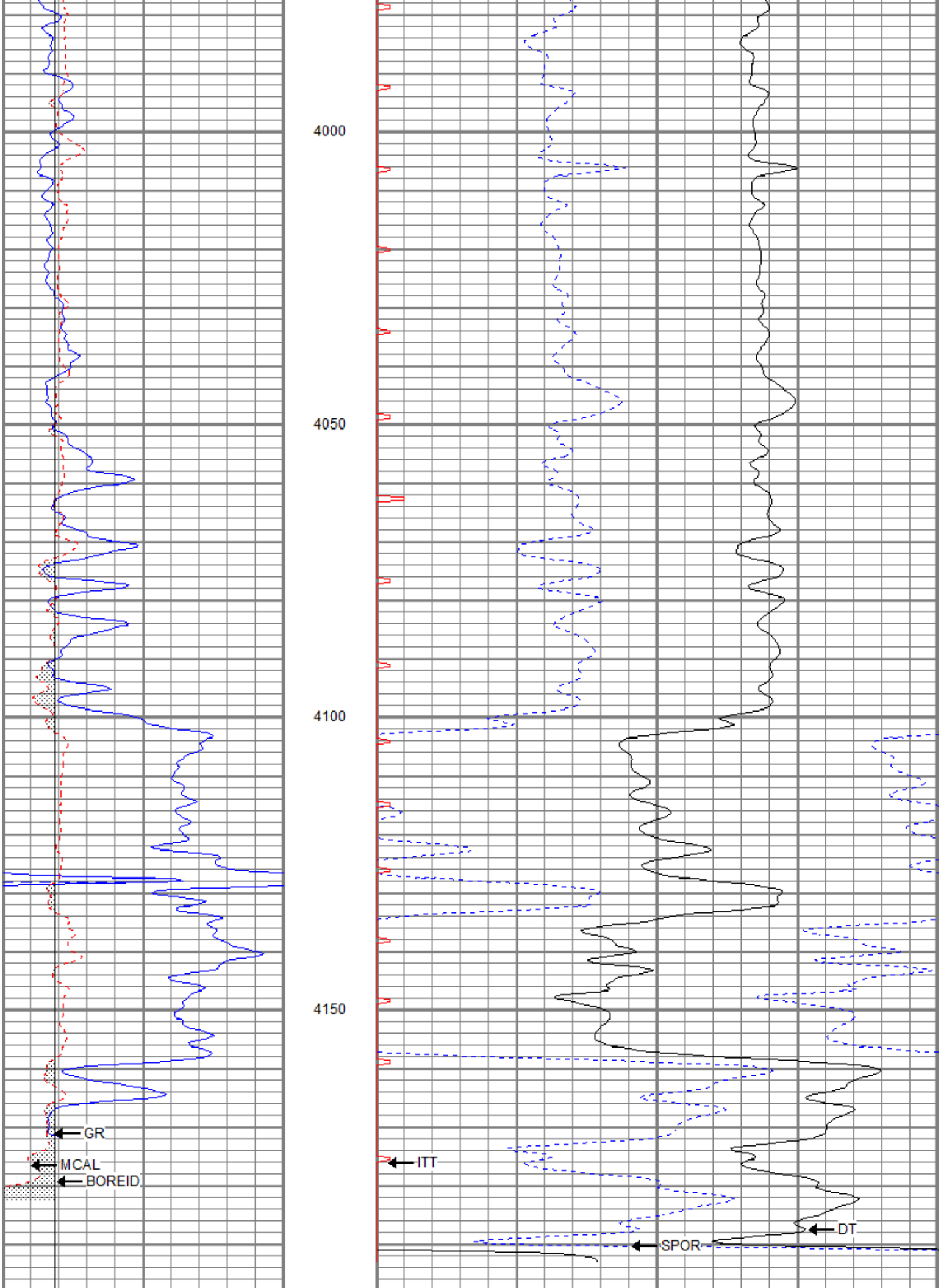

2900
2950
3000
3050


3100
3150
3200
3250
3300


3350
3400
3450
3500


3550
3600
3650
3700
3750


3800
3850
3900
3950


4000
4050
4100
4150
GR
MCAL
BOREID
ITT
DT
SPOR

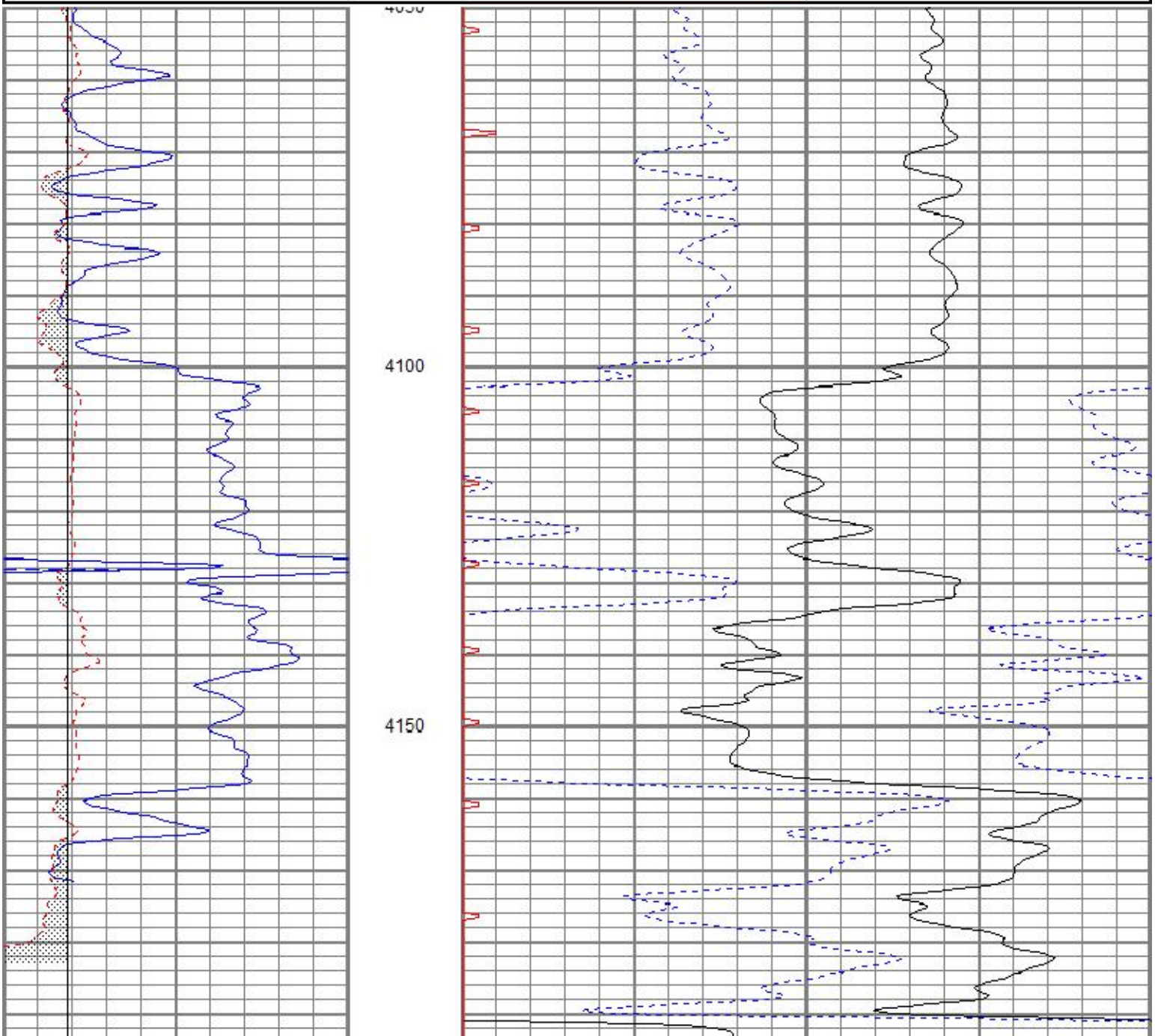
| | | | | | |
|---|---|---|---|---|---|
| 0 | GR (GAPI) | 150 | 140 | DT (usec/ft) | 40 |
| 6 | MCAL (in) | 16 | 30 | SPOR (pu) | -10 |
| 6 | BOREID (in) | 16 | 0 | ITT (msec) | 20 |

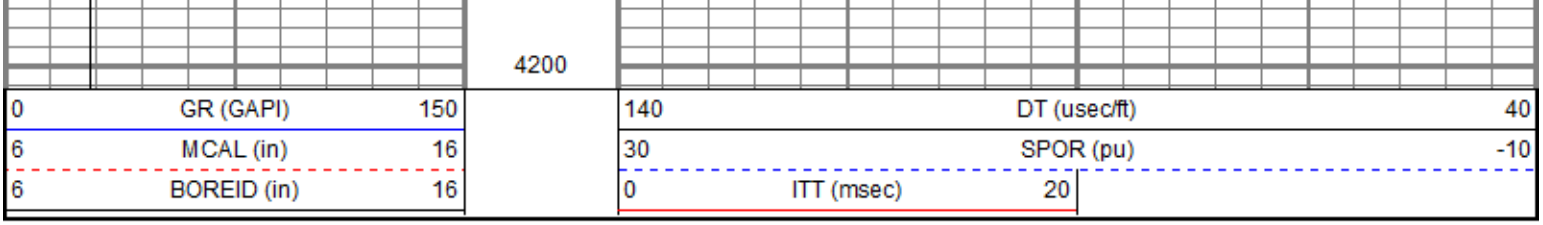
4200

# Repeat Pass

| | |
|---|---|
| Database File | hddozier#1oh.db |
| Dataset Pathname | pass4.1 |
| Presentation Format | kbcs |
| Dataset Creation | Tue Jun 14 06:36:57 2016 |
| Charted by | Depth in Feet scaled 1:240 |


| | | | | | |
|---|---|---|---|---|---|
| 0 | GR (GAPI) | 150 | 140 | DT (usec/ft) | 40 |
| 6 | MCAL (in) | 16 | 30 | SPOR (pu) | -10 |
| 6 | BOREID (in) | 16 | 0 | ITT (msec) | 20 |




## Calibration Report

Database File hddozier#1oh.db
Dataset Pathname pass4.1
Dataset Creation Tue Jun 14 06:36:57 2016

### Microlog Calibration Report

Serial-Model: 012-Pengo
Performed: Wed Apr 20 21:39:52 2016

| | Readings | | | References | | | Results | |
|---|---|---|---|---|---|---|---|---|
| | Zero | Cal | | Zero | Cal | | m | b |
| Normal | 0.0073 | 0.4397 | V | 0.0000 | 11.0000 | Ohm-m | 25.4408 | -0.1852 |
| Inverse | 0.0081 | 0.5639 | V | 0.0000 | 7.2000 | Ohm-m | 12.9558 | -0.1056 |
| Caliper | 2.0536 | 4.5712 | V | 7.6500 | 16.0000 | in | 3.3165 | 0.8393 |

### Gamma Ray Calibration Report

Serial Number: 2001
Tool Model: OH
Performed: Thu Jan 21 09:36:03 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2400 GAPI/cps

| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|---|---|---|---|---|---|---|
| GR | 27.88 | | GR-OH (2001) 2001 | 3.56 | 3.25 | 40.00 |
| | | | ML-Pengo (012) | 6.97 | 3.50 | 100.00 |
| MCAL | 21.05 | | | | | |
| MI | 21.05 | | | | | |
| MN | 21.05 | | | | | |
| WVF4 | 13.79 | | | | | |
| WVF3 | 12.79 | | SLT-G (101127) Sonic | 15.71 | 3.50 | 250.00 |
| WVF2 | 9.79 | | | | | |
| WVF1 | 8.79 | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | |  | CENT-OHshort<br>Open Hole short centralizer | 4.04 | 3.50 | 50.00 |

| | |
|---|---|
| Dataset: | hddozier#1oh.db: field/well/run1/pass4.1 |
| Total length: | 30.28 ft |
| Total weight: | 440.00 lb |
| O.D.: | 3.50 in |