



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company EDISON OPERATING COMPANY, LLC.
Well CHARLES #1-25
Field KISMET
County SEWARD
State KANSAS

Company EDISON OPERATING COMPANY, LLC.
Well CHARLES #1-25
Field KISMET
County SEWARD State KANSAS

Location: API # : 15-175-22202-0000
2310' FNL & 330' FWL
SW - SW - NW
SEC 25 TWP 33S RGE 31W
Permanent Datum GROUND LEVEL Elevation 2728
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL/PE
DIL
Elevation
K.B. 2738
D.F. 2736
G.L. 2728

| | | | |
|------------------------------|----------------|---------------------|--|
| Date | 5/18/13 | | |
| Run Number | TWO | | |
| Depth Driller | 5913 | | |
| Depth Logger | 5910 | | |
| Bottom Logged Interval | 5908 | | |
| Top Log Interval | 2600 | | |
| Casing Driller | 8 5/8" @ 1598' | | |
| Casing Logger | 1594 | | |
| Bit Size | 7 7/8" | | |
| Type Fluid in Hole | CHEMICAL MUD | CHLORIDES 3,200 PPM | |
| Density / Viscosity | 9.2/60 | | |
| pH / Fluid Loss | 11.0/8.0 | | |
| Source of Sample | FLOWLINE | | |
| Rim @ Meas. Temp | .850 @ .85F | | |
| Rmf @ Meas. Temp | .638 @ .85F | | |
| Rmc @ Meas. Temp | 1.02 @ .85F | | |
| Source of Rmf / Rmc | MEASUREMENT | | |
| Rim @ BHT | .543 @ 133F | | |
| Time Circulation Stopped | 6 HOURS | | |
| Time Logger on Bottom | 10:30 P.M. | | |
| Maximum Recorded Temperature | 133F | | |
| Equipment Number | 4854 | | |
| Location | HAYS, KANSAS | | |
| Recorded By | JEFF LUEBBERS | | |
| Witnessed By | PAUL GERLACH | | |

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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

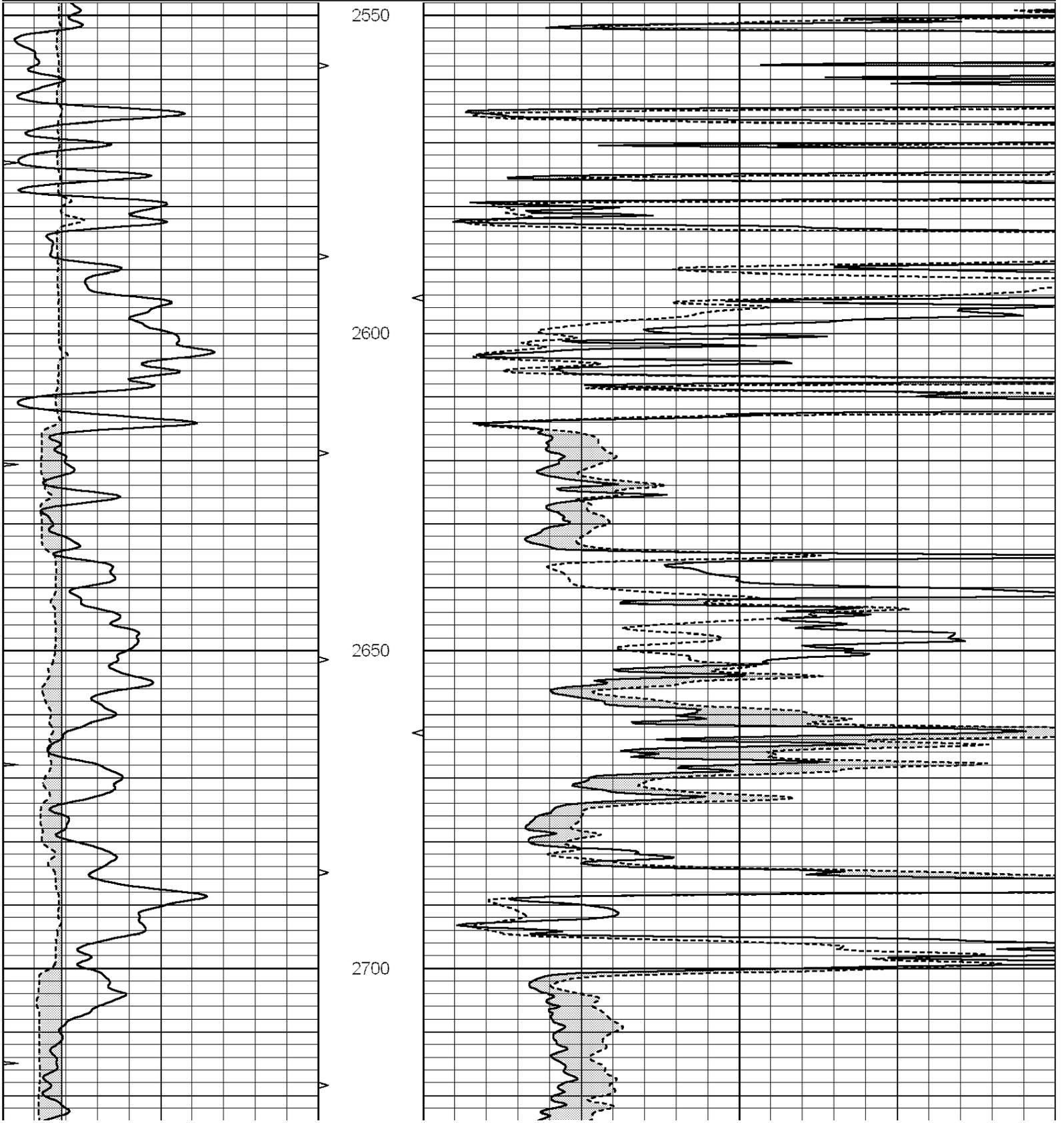
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
KISMET, KS. 3S. ON BLKTOP TO "RD. 13", 1 1/2E., 1S., 2E., N. INTO

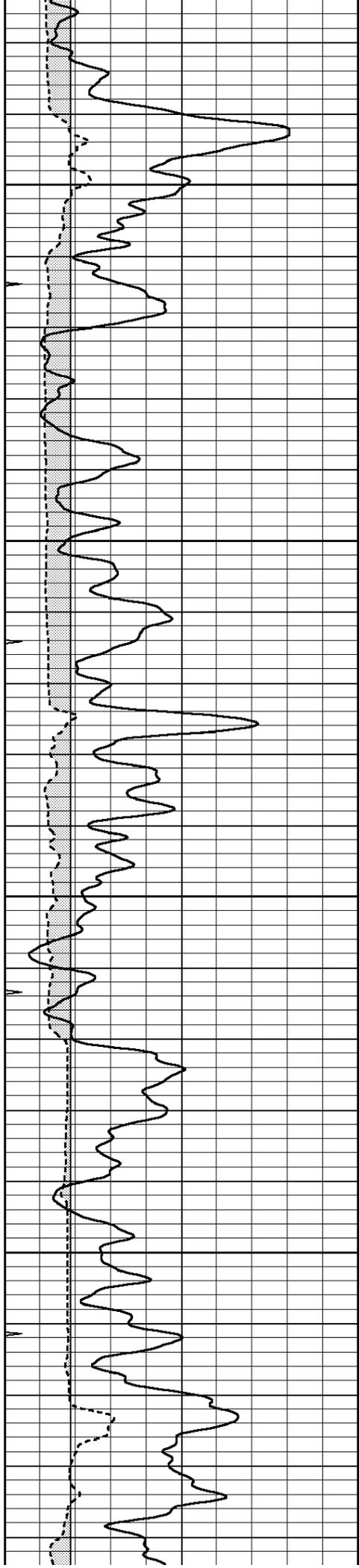


MAIN SECTION

Database File: 010908pe.db
 Dataset Pathname: pass6.5
 Presentation Format: micro
 Dataset Creation: Sat May 18 03:22:18 2013
 Charted by: Depth in Feet scaled 1:240

| | | | | | | |
|---|------------------|-----|----------|----|----------------|----|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV | 0 | MEL1.5 (Ohm-m) | 40 |
| 6 | CALIPER (in) | 16 | 10 (ft3) | 0 | MEL2.0 (Ohm-m) | 40 |
| 0 | MINMK | 20 | TBHV | | | |
| | | | 0 (ft3) | 10 | | |



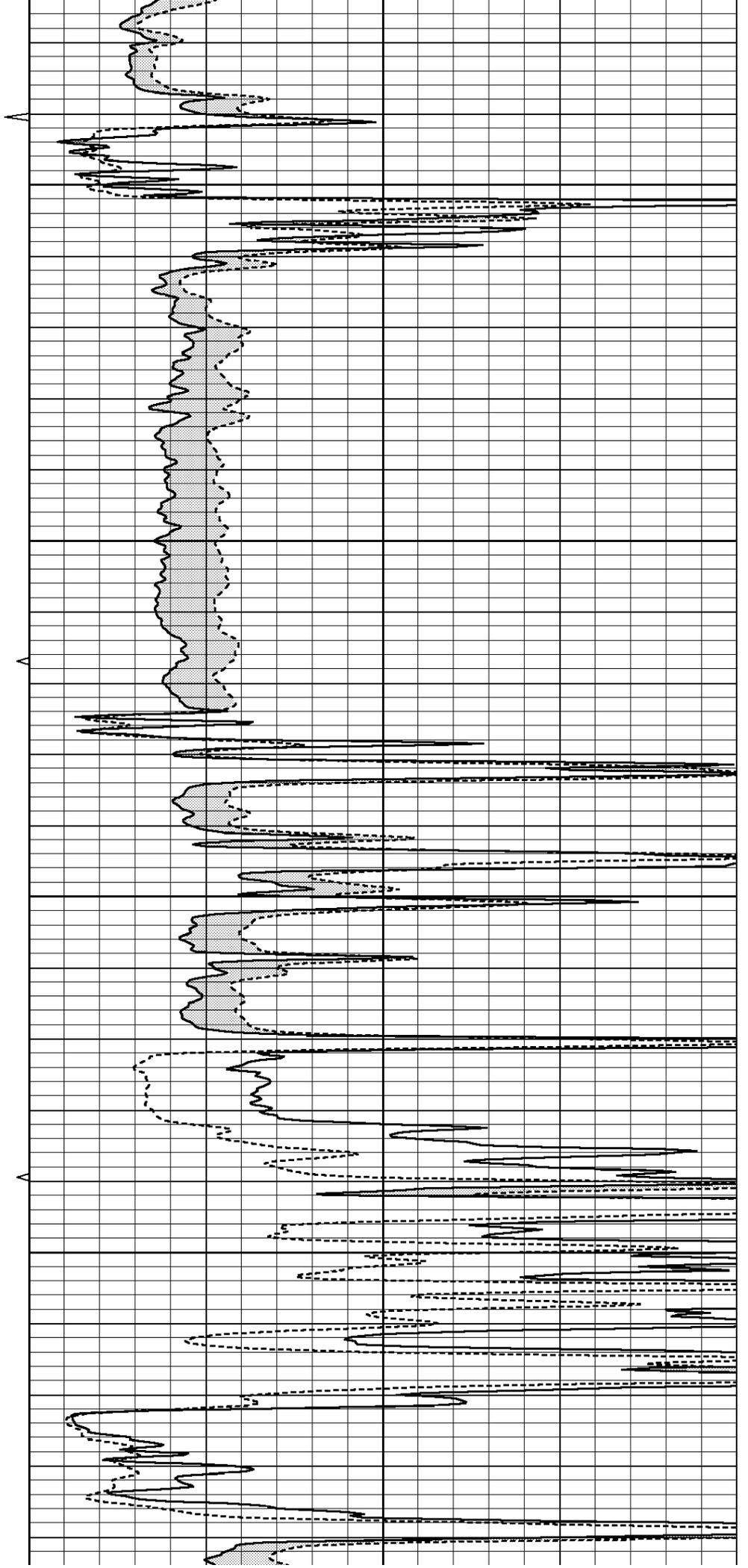


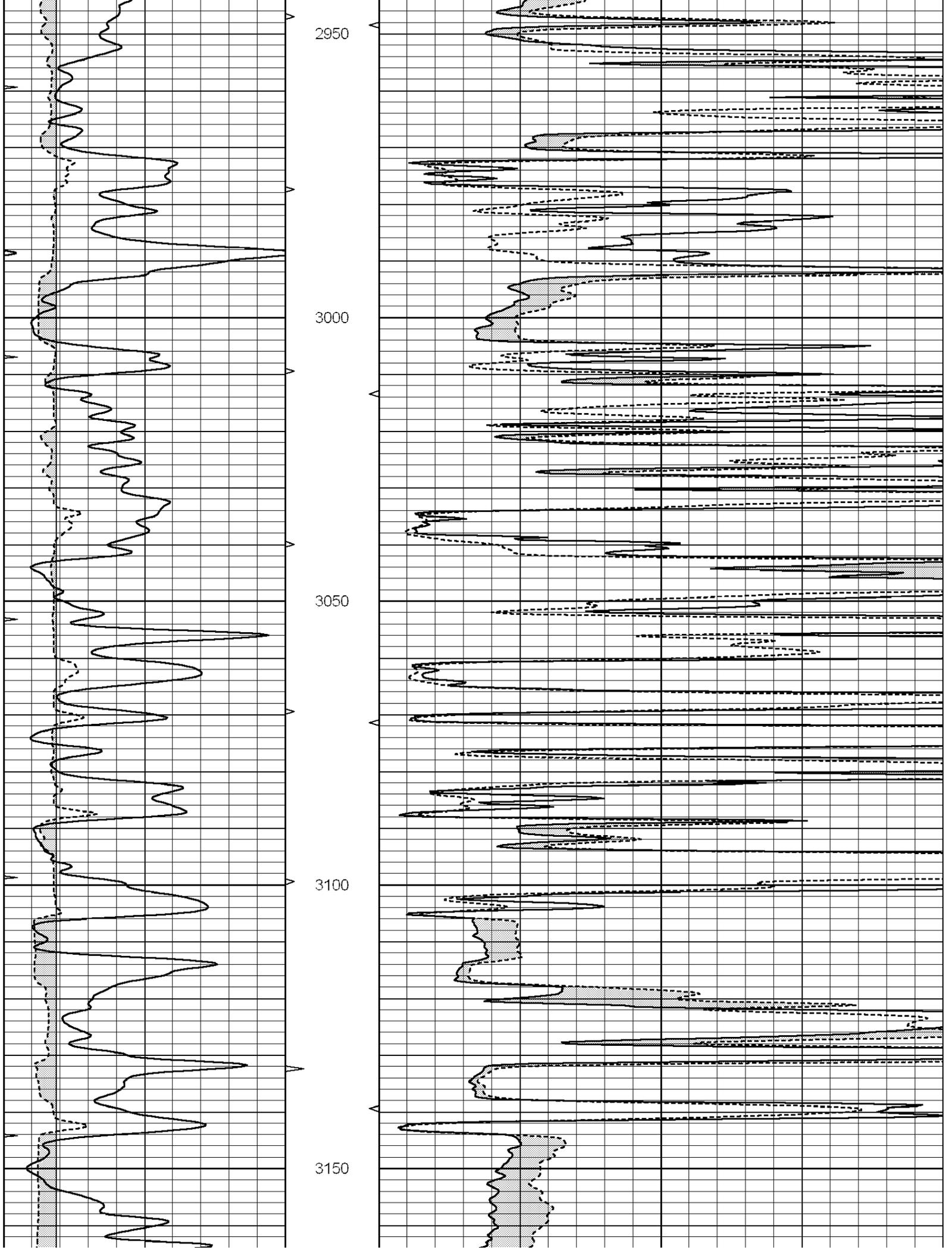
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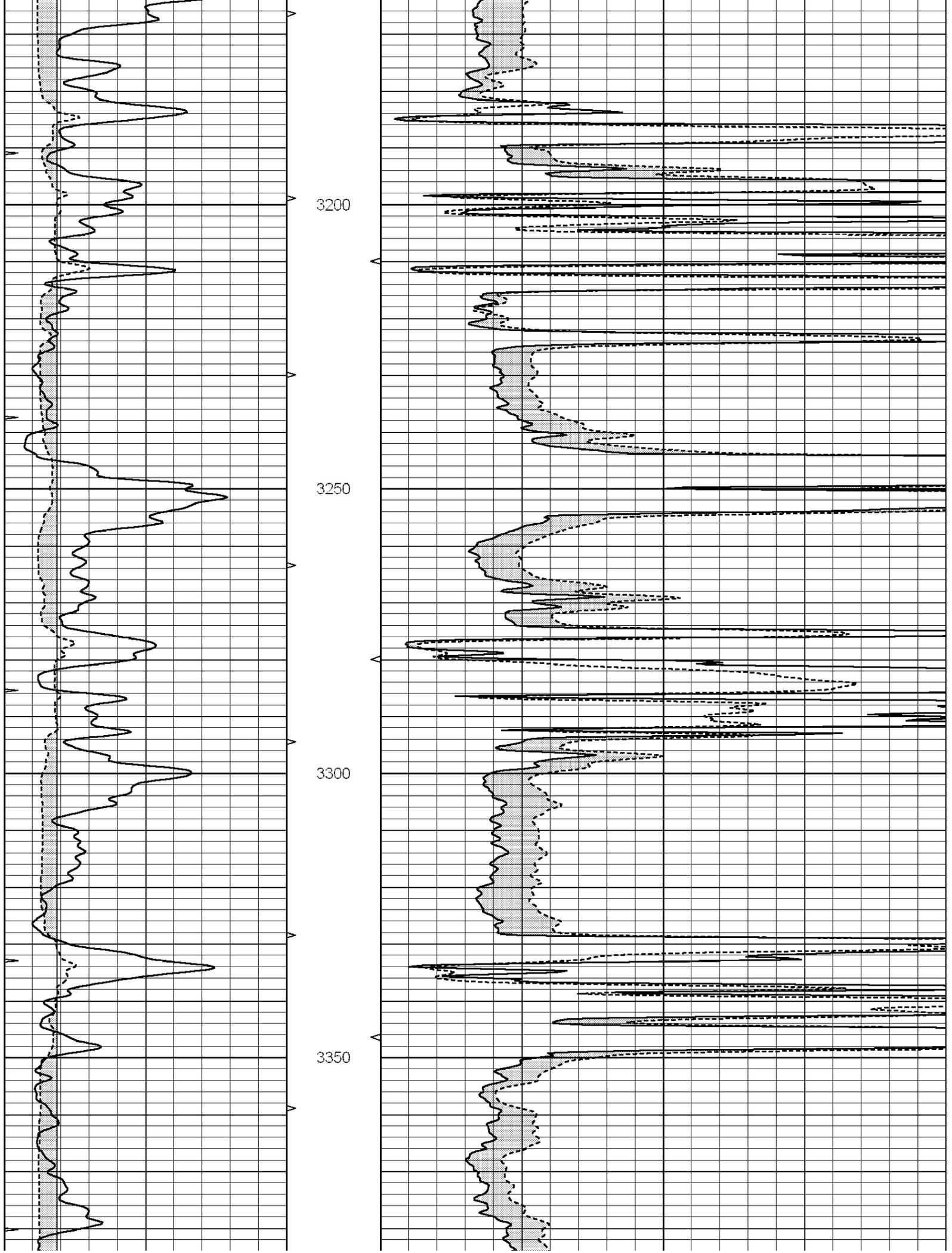
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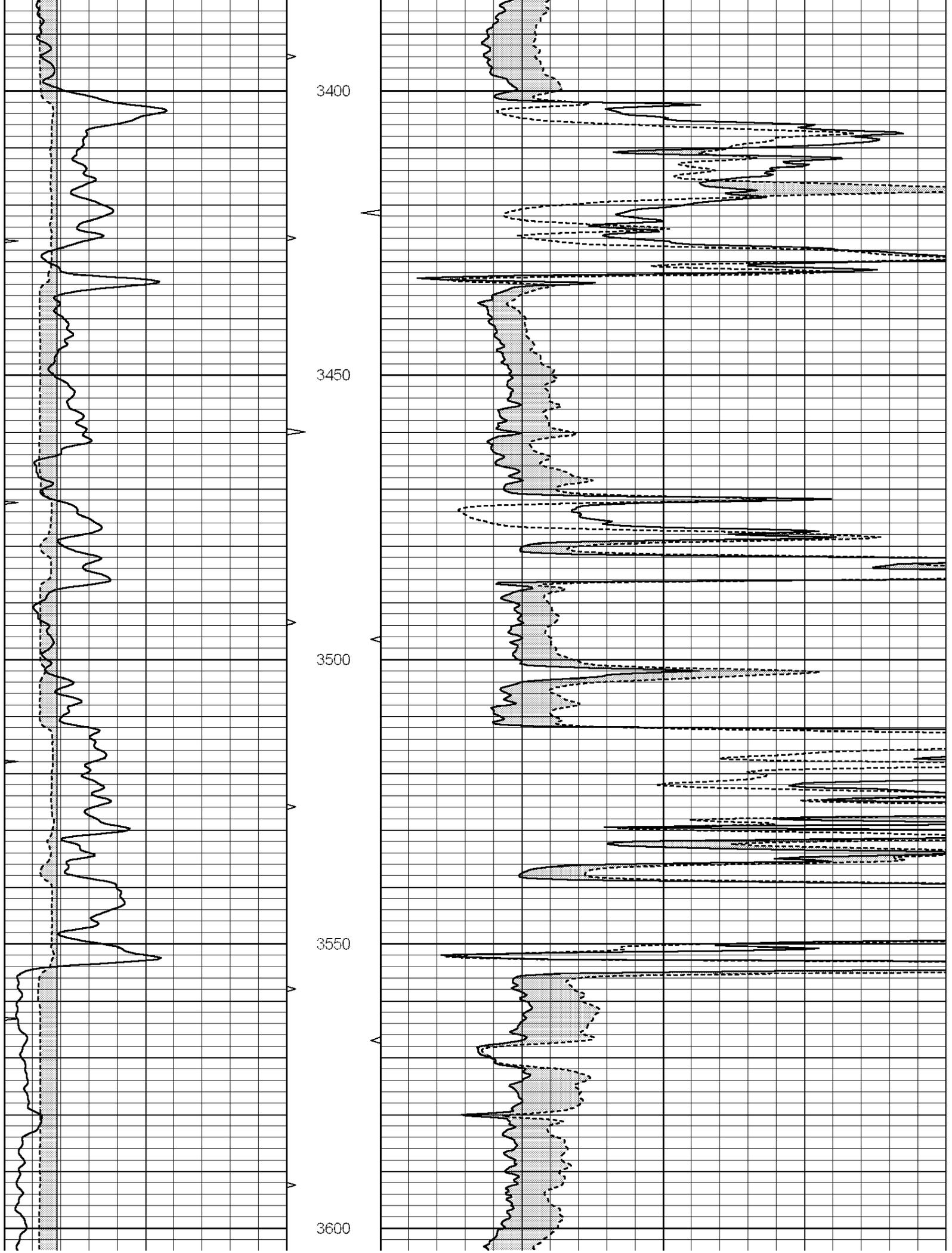
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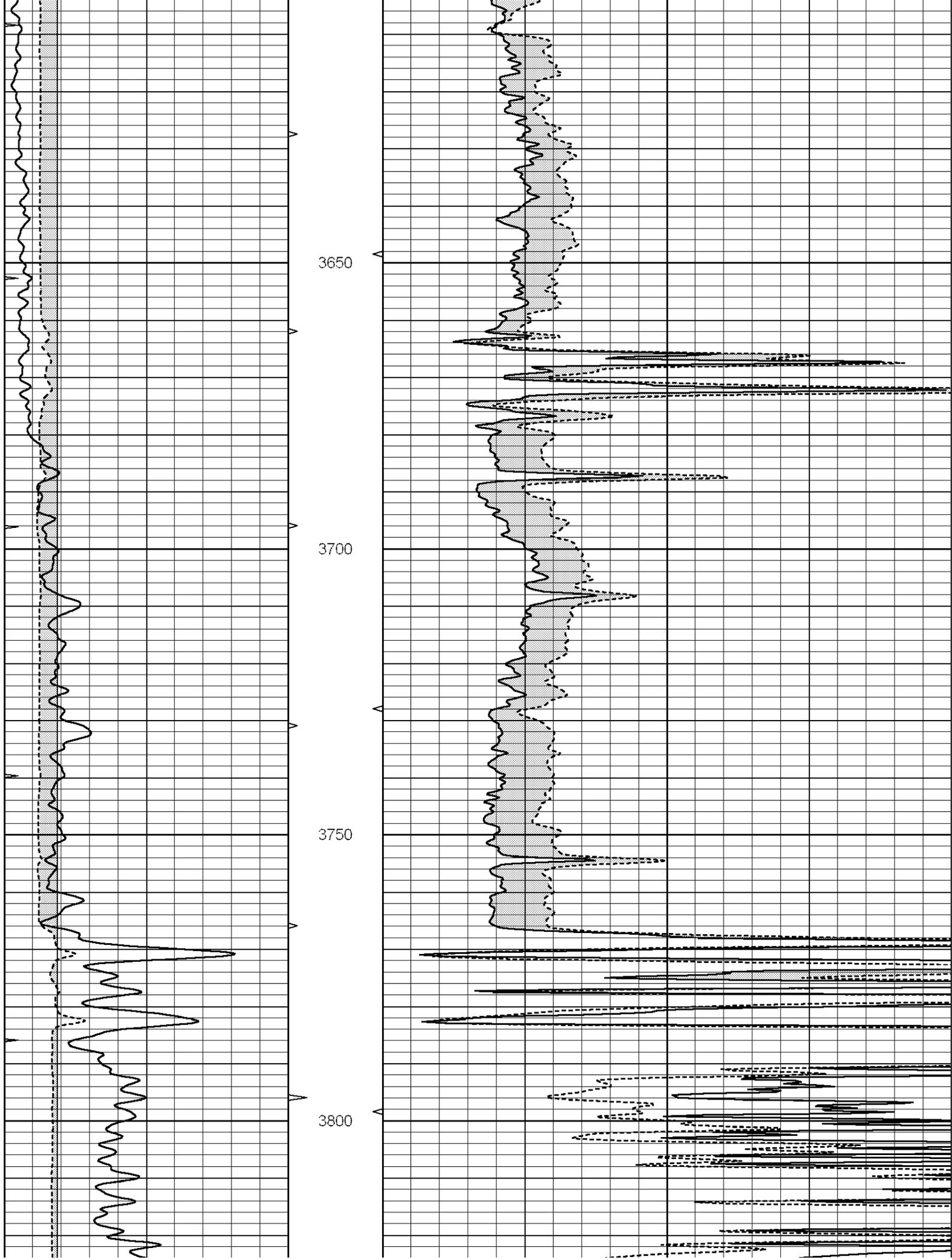
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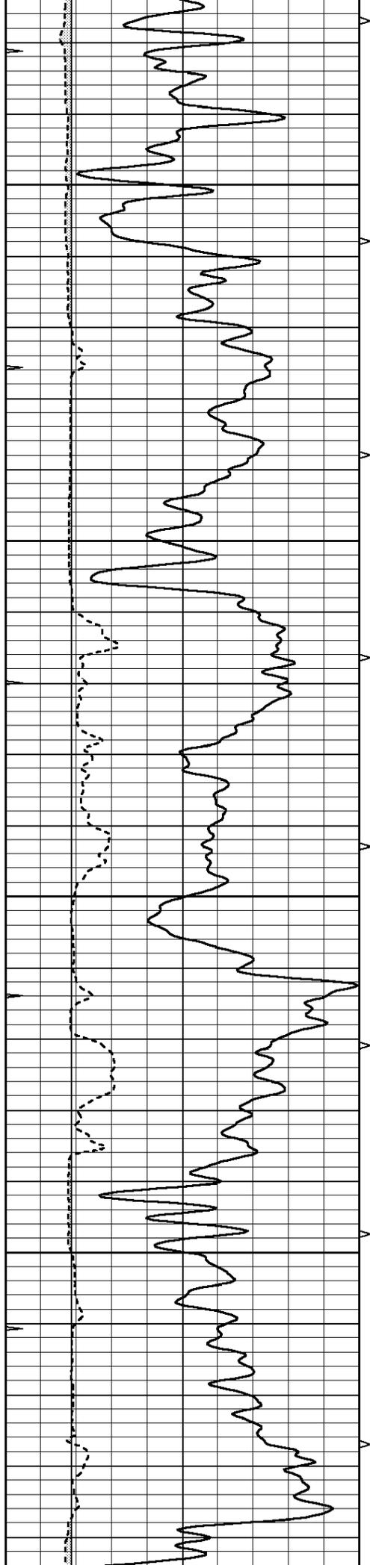










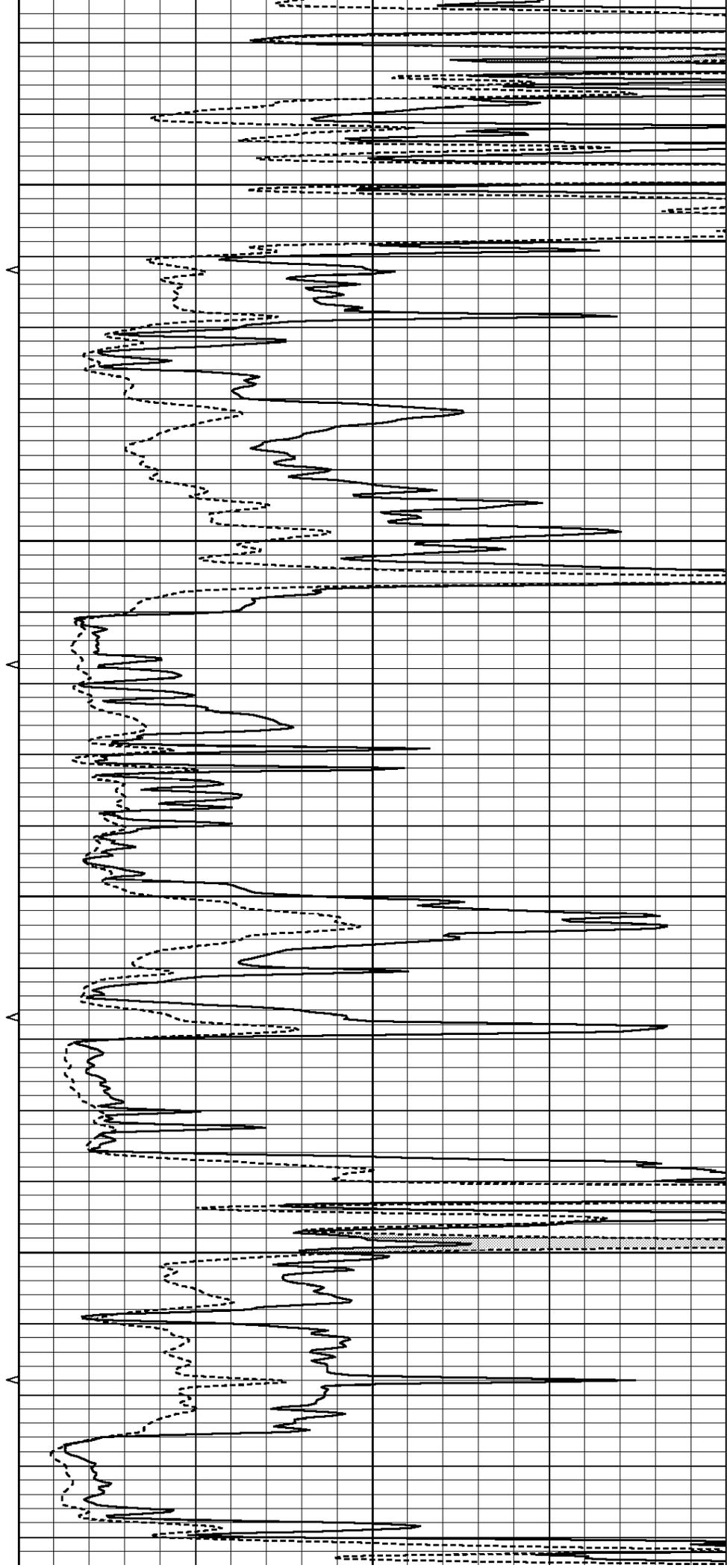


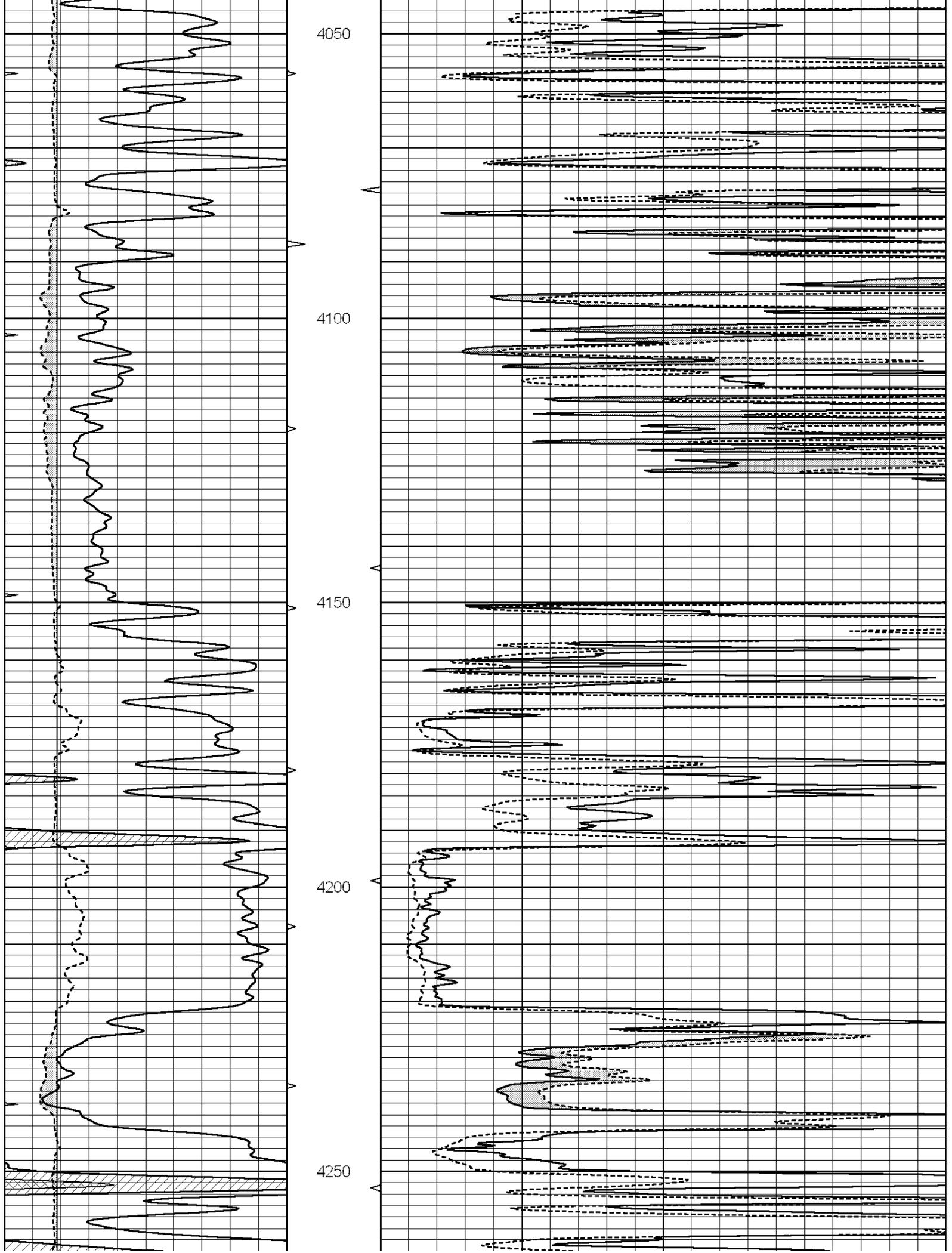
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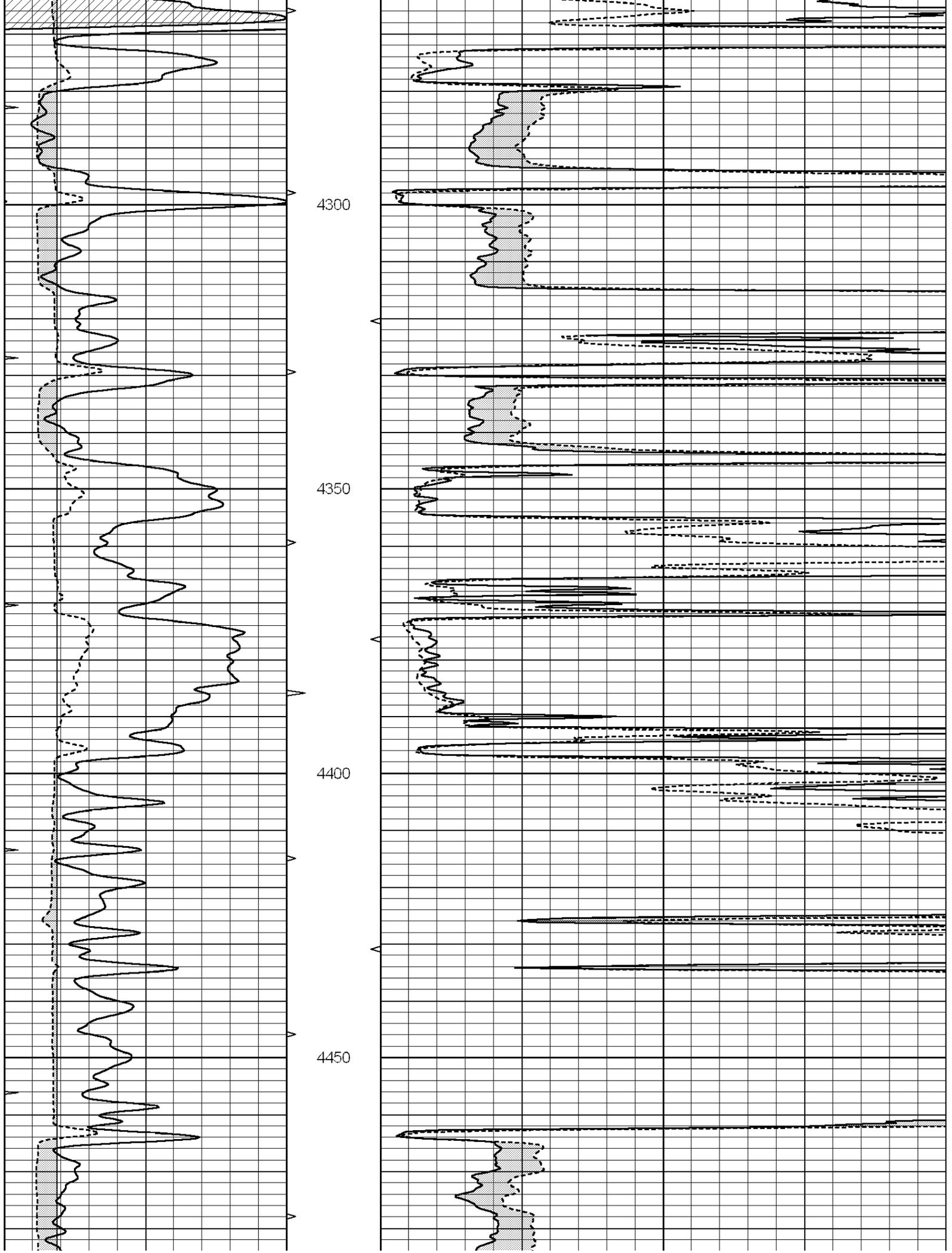
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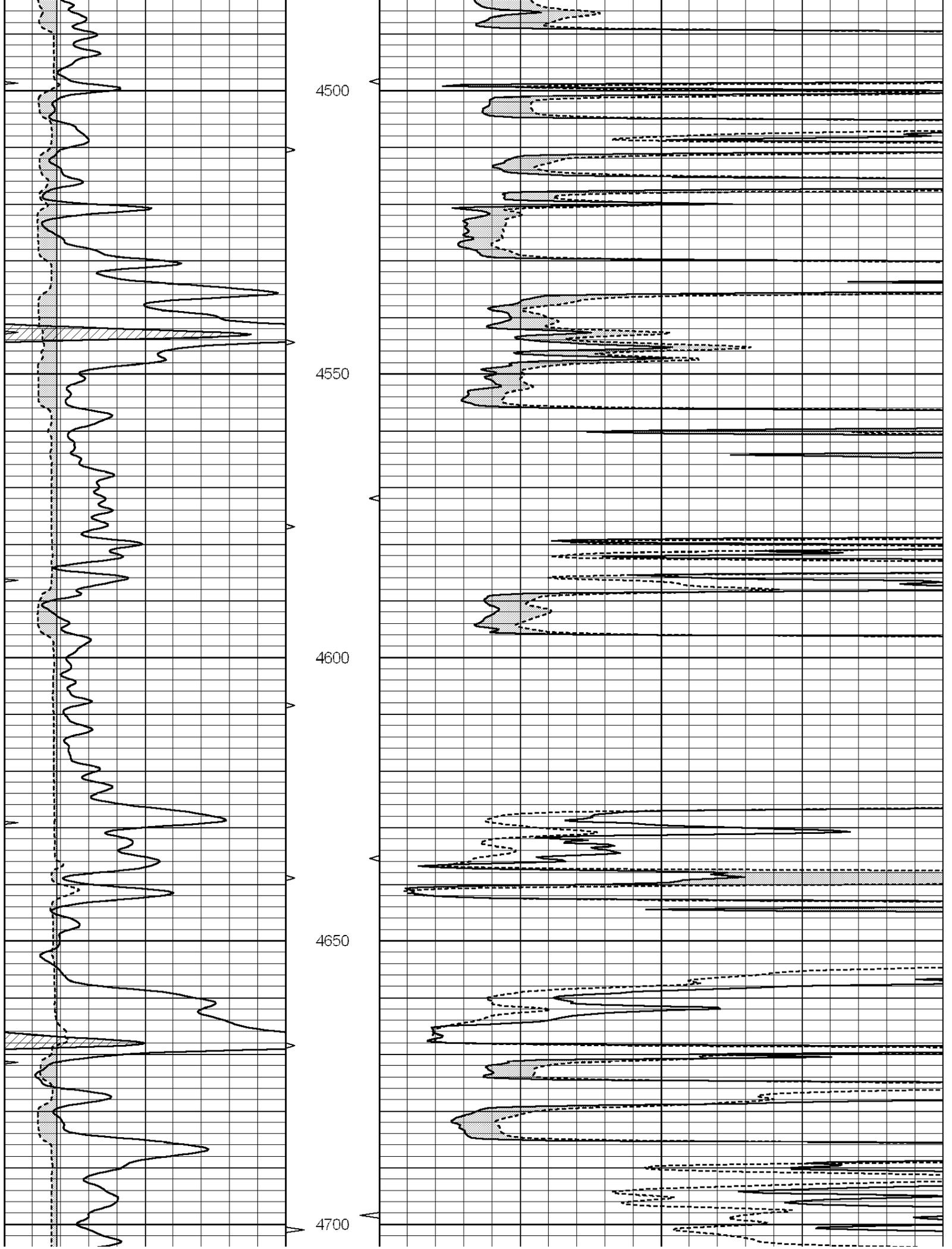
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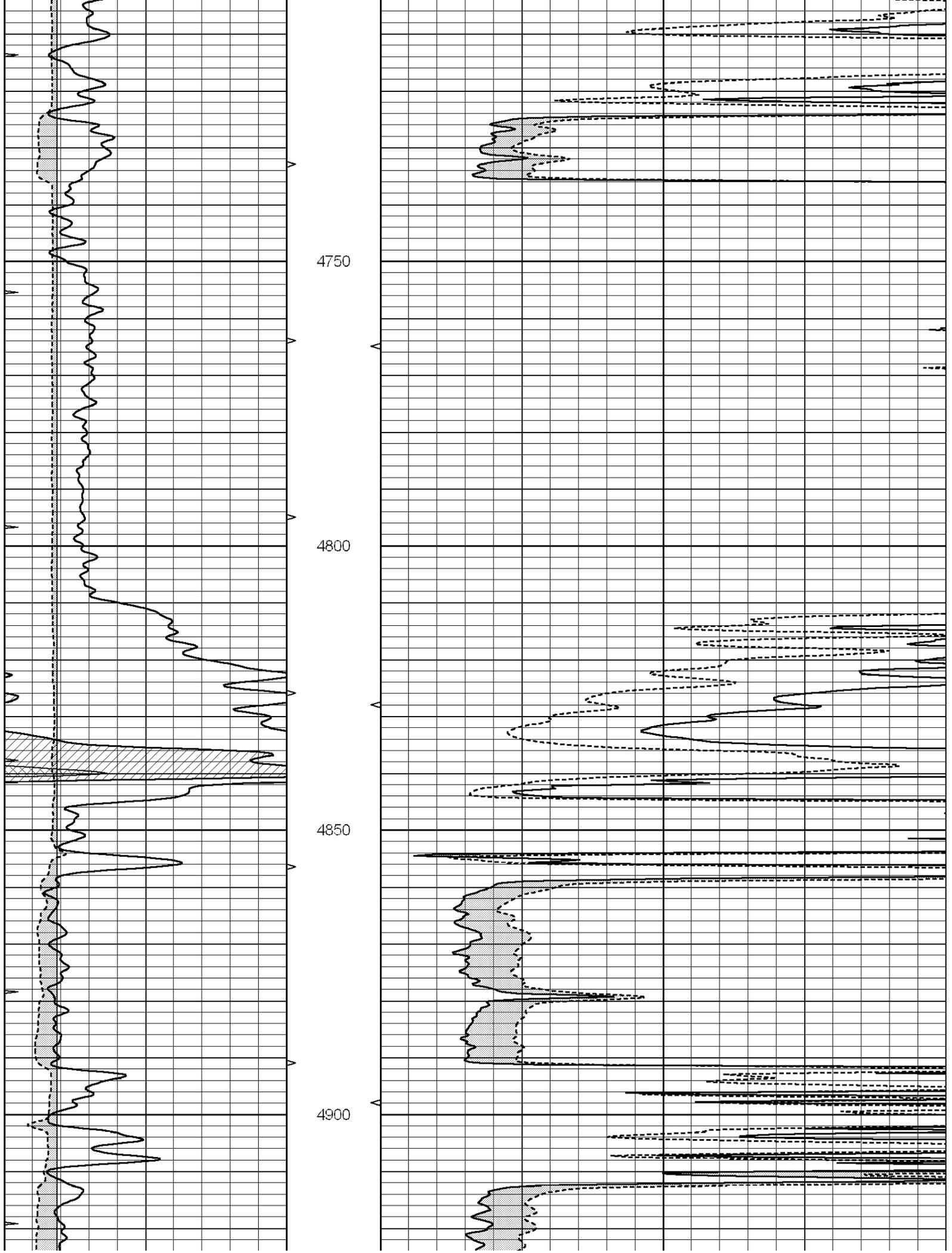
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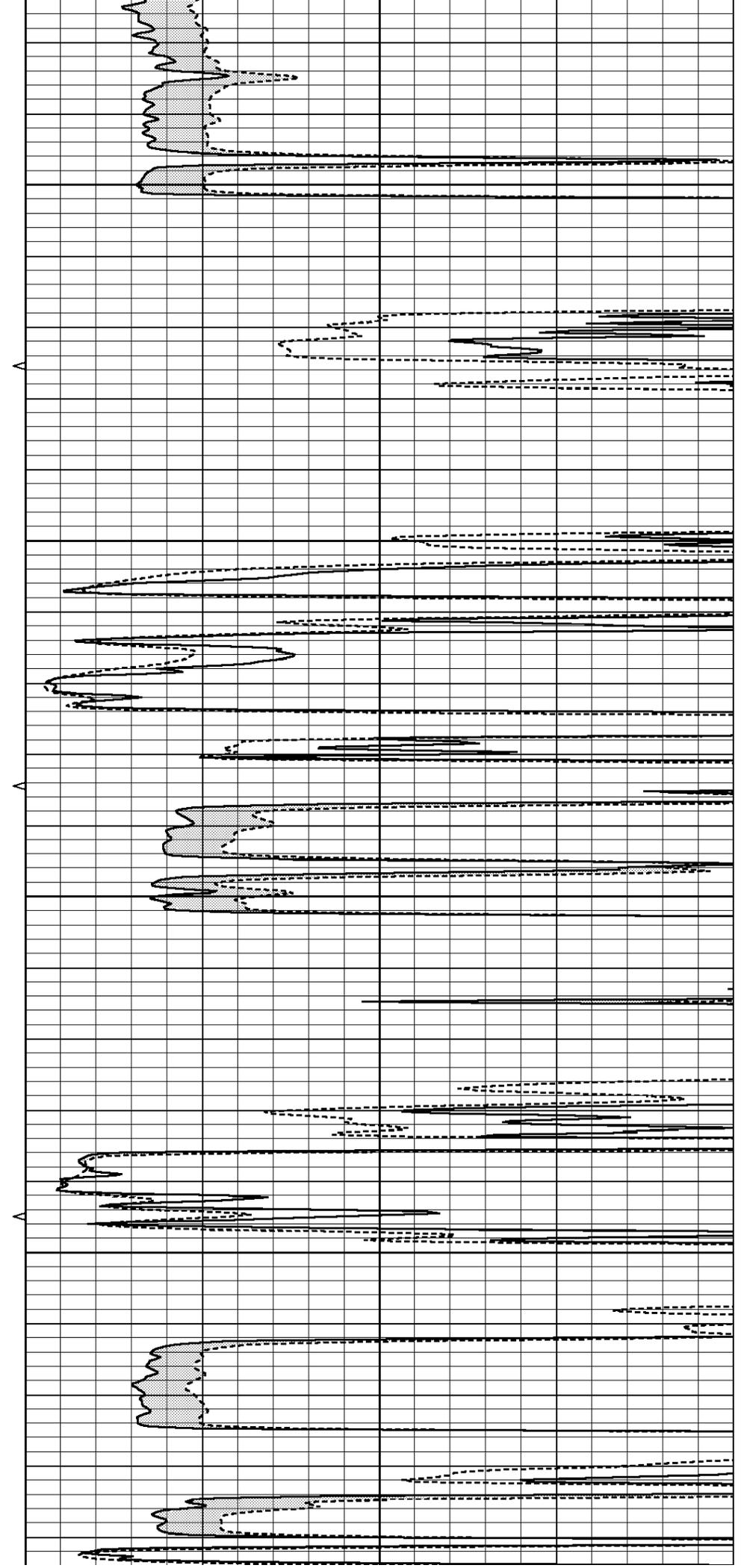
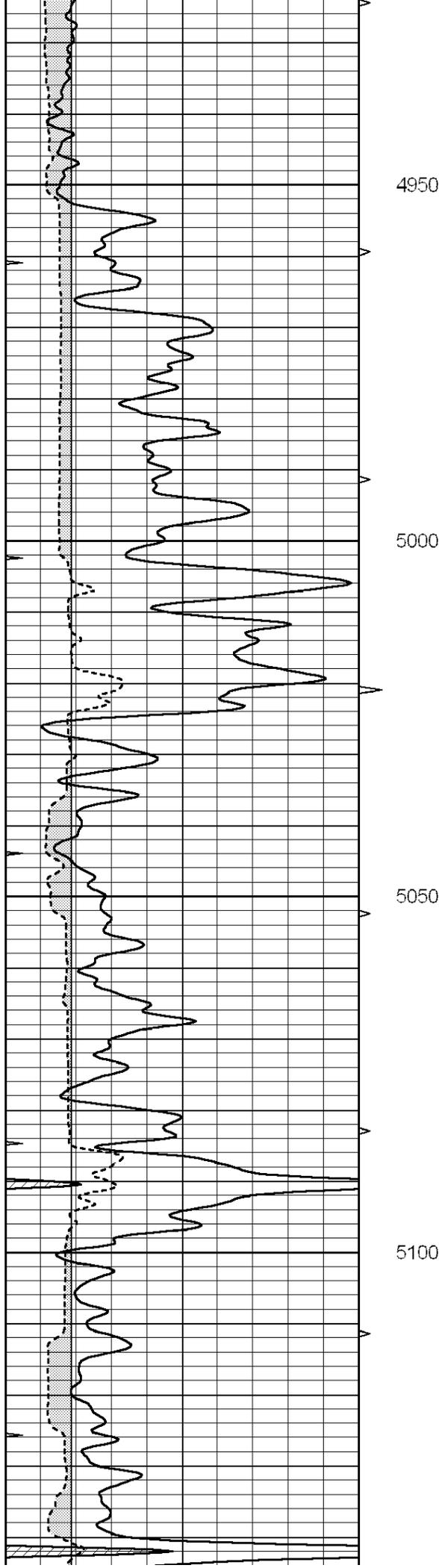


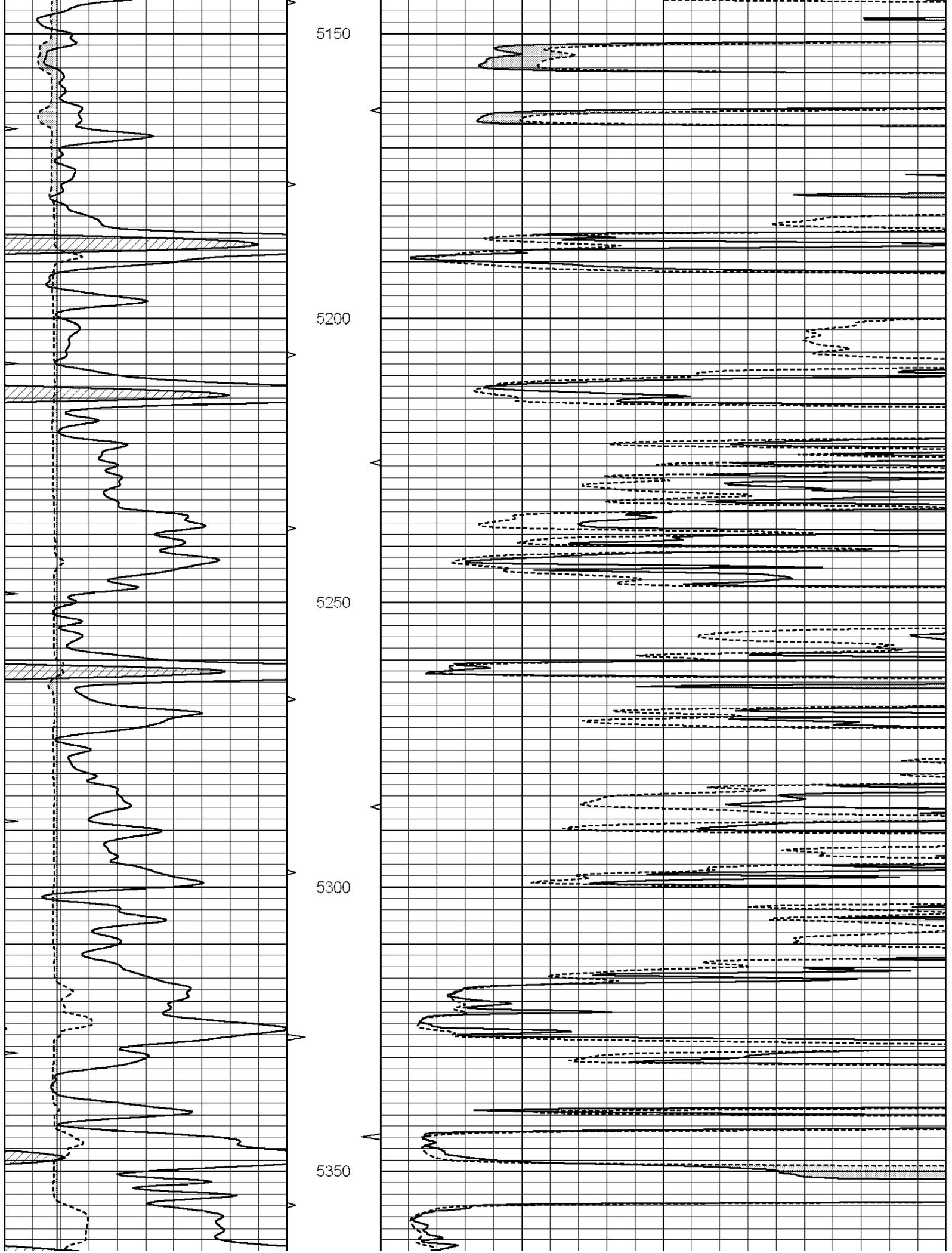


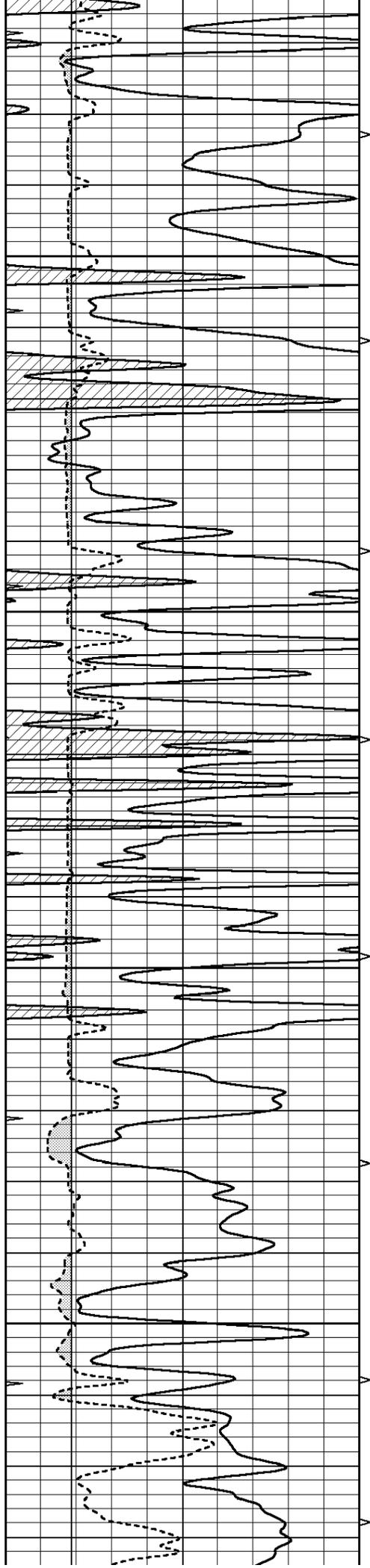










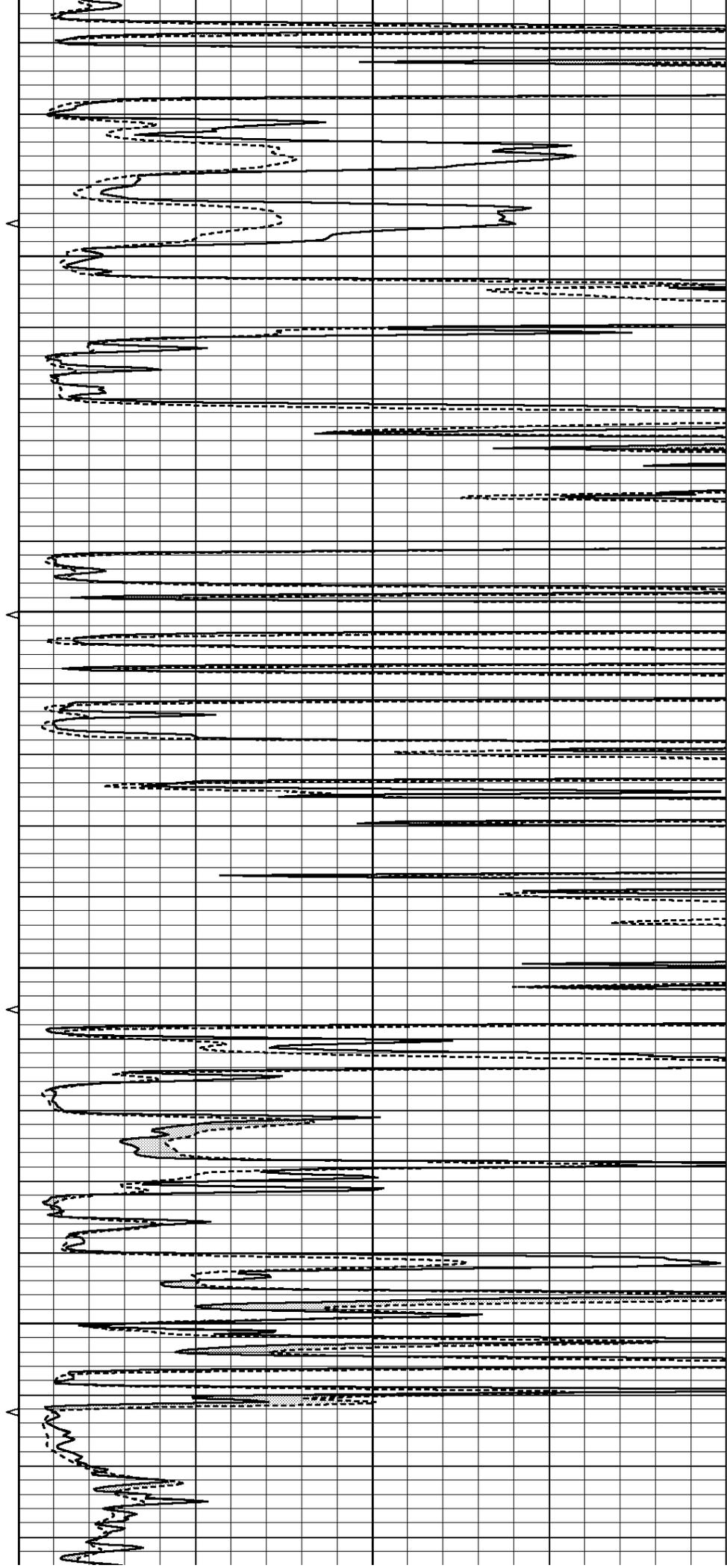


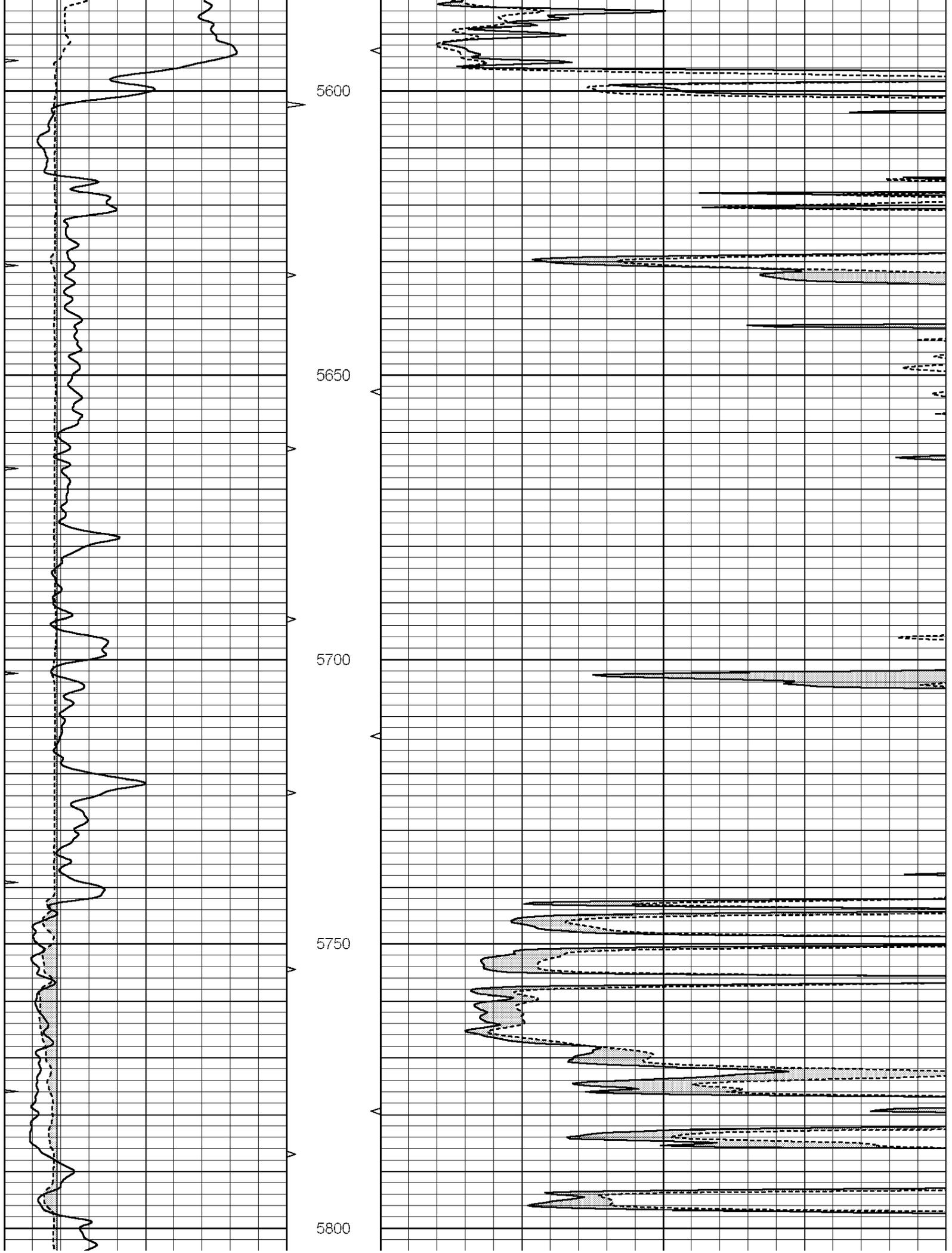
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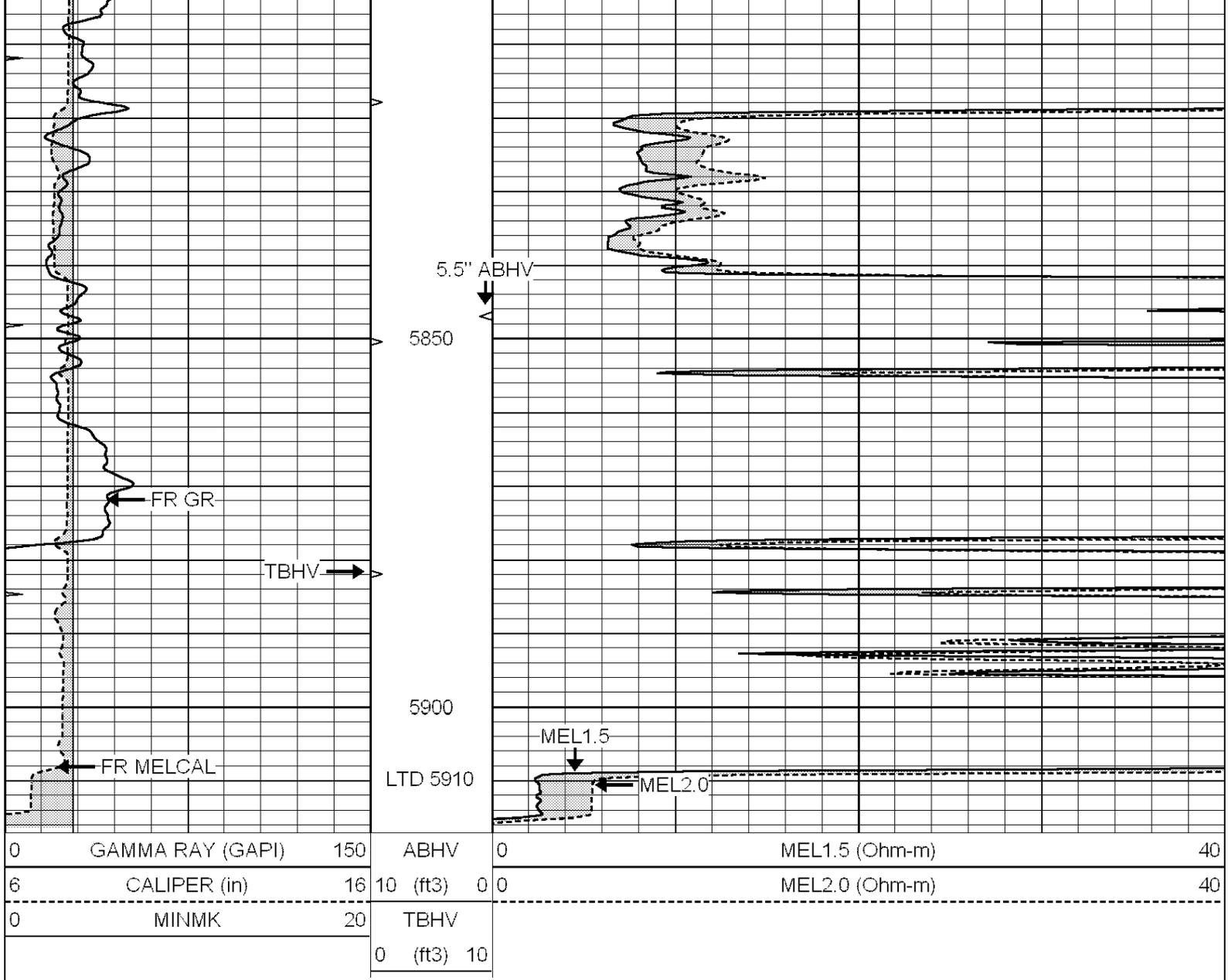
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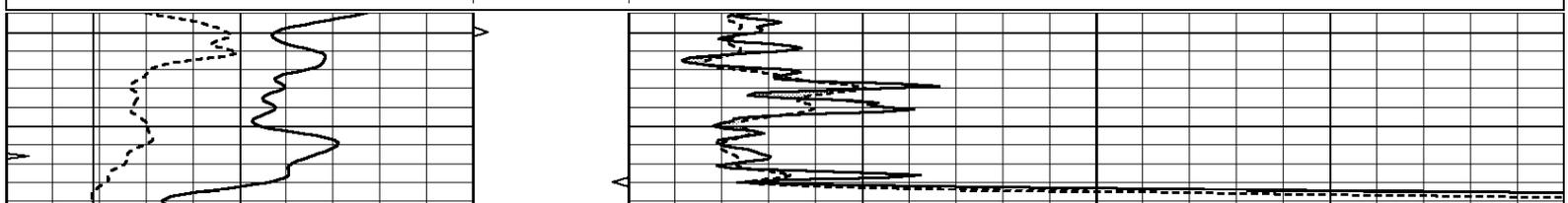


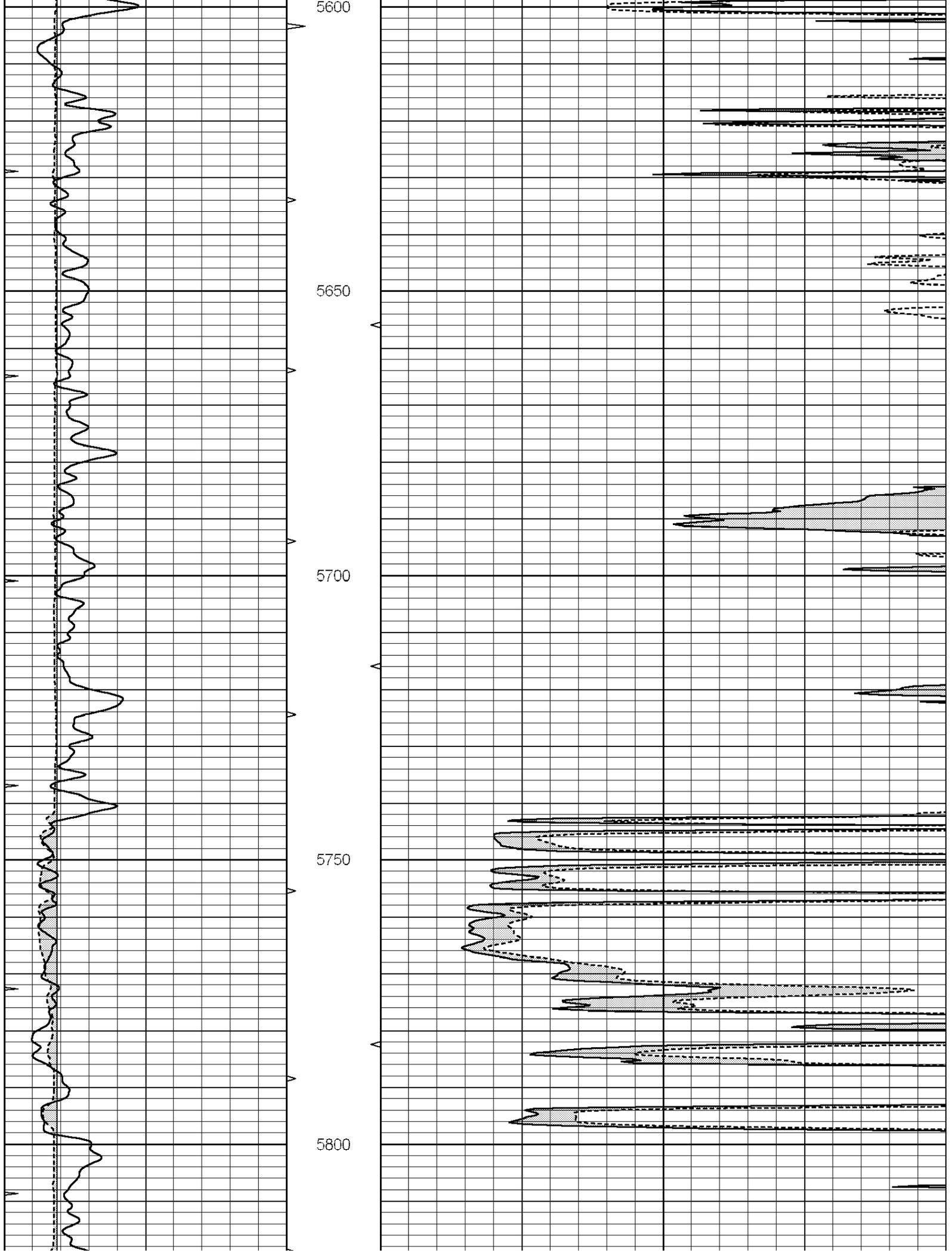
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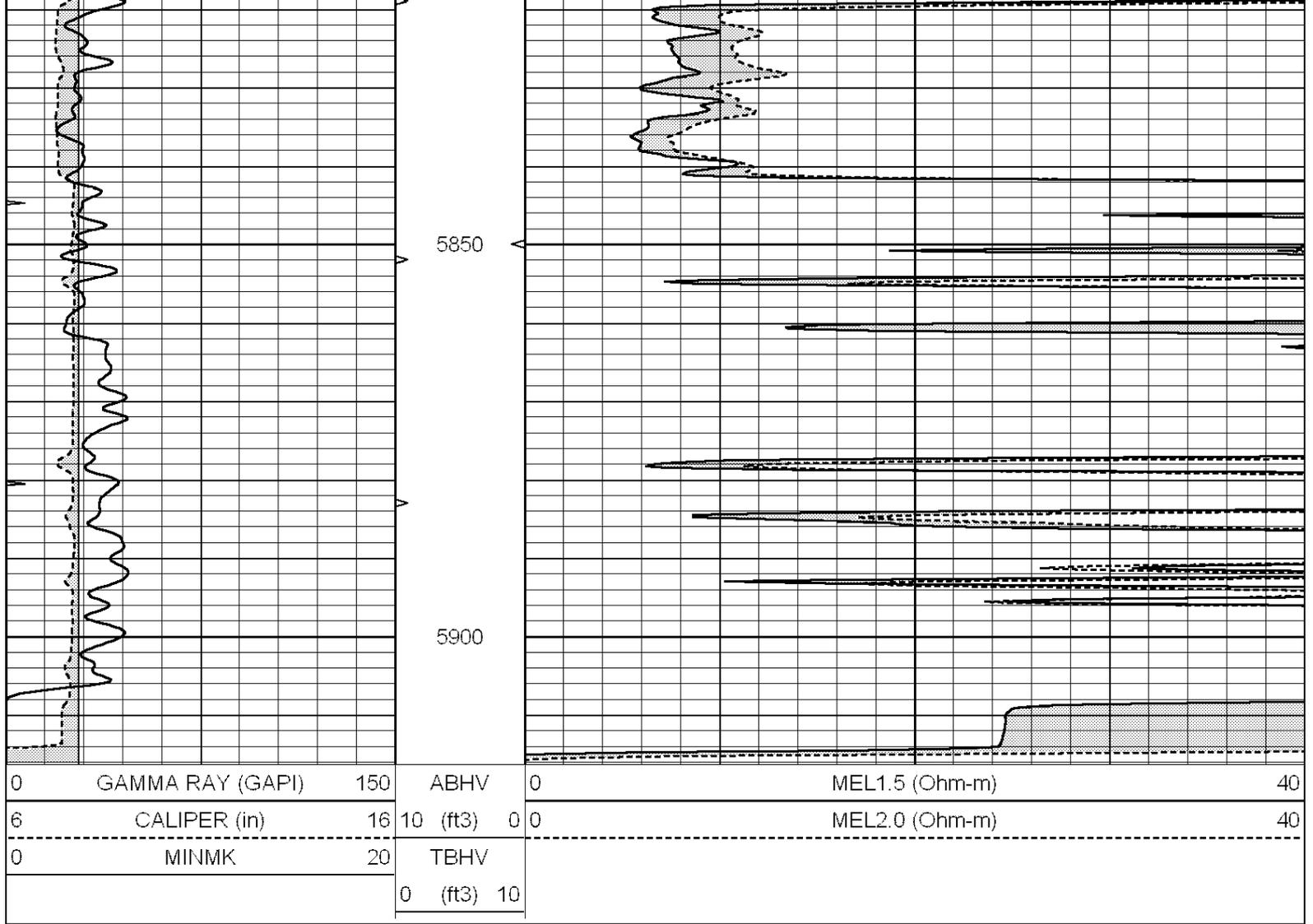
REPEAT SECTION

Database File: 010908pe.db
 Dataset Pathname: pass5.2
 Presentation Format: micro
 Dataset Creation: Sat May 18 03:29:40 2013 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

| | | | | | | |
|---|------------------|-----|----------|----|----------------|----|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV | 0 | MEL1.5 (Ohm-m) | 40 |
| 6 | CALIPER (in) | 16 | 10 (ft3) | 0 | MEL2.0 (Ohm-m) | 40 |
| 0 | MINMK | 20 | TBHV | | | |
| | | | 0 (ft3) | 10 | | |







Calibration Report

Database File: 010908pe.db
 Dataset Pathname: pass6.5
 Dataset Creation: Sat May 18 03:22:18 2013

MICRO Calibration Report

| | | |
|----------------------|--------------------------|---------------|
| Serial Number: | 2 | |
| Tool Model: | PROBE | |
| Performed: | Sat Apr 20 17:03:12 2013 | |
| Caliper Calibration: | Gain=6.596 | Offset=-4.220 |
| References | Low Cal | High Cal |
| Readings | 7.200 | 16.000 |
| | 1.731 | 3.065 |
| 1.5" Calibration: | Gain=48.000 | Offset=-1.500 |
| References | Low Cal | High Cal |
| Readings | 0.000 | 20.000 |
| | 0.015 | 0.458 |
| 2" Calibration: | Gain=48.000 | Offset=-0.800 |
| References | Low Cal | High Cal |
| Readings | 0.000 | 20.000 |
| | 0.003 | 0.384 |

Gamma Ray Calibration Report

Serial Number: GR3
Tool Model: OPEN
Performed: Sat May 18 01:38:37 2013

Calibrator Value: 200.0 GAPI

Background Reading: 3.0 cps
Calibrator Reading: 186.0 cps

Sensitivity: 3.4000 GAPI/cps