



# SONIC LOG

|                              |                                       |  |                                     |
|------------------------------|---------------------------------------|--|-------------------------------------|
| Company                      | WOOLSEY OPERATING CO. LLC.            |  |                                     |
| Well                         | BROWN "A" #1                          |  |                                     |
| Field                        | WILDCAT                               |  |                                     |
| County                       | BARBER                                |  |                                     |
| State                        | KANSAS                                |  |                                     |
| Company                      | WOOLSEY OPERATING COMPANY, LLC.       |  |                                     |
| Well                         | BROWN "A" #1                          |  |                                     |
| Field                        | WILDCAT                               |  |                                     |
| County                       | BARBER                                |  |                                     |
| State                        | KANSAS                                |  |                                     |
| Location:                    | API # : 15-007-24354-0000             |  | Other Services<br>CDL/CNL/PE<br>DIL |
| Permanent Datum              | GROUND LEVEL                          |  | Elevation                           |
| Log Measured From            | 330' FSL & 2040' FWL<br>S/2 - SE - SW |  | 1504                                |
| Drilling Measured From       | SEC 2 TWP 34S RGE 12W                 |  | K.B. 1517<br>D.F. 1515<br>G.L. 1504 |
| Date                         | 8/1/19                                |  |                                     |
| Run Number                   | TWO                                   |  |                                     |
| Depth Driller                | 5300                                  |  |                                     |
| Depth Logger                 | 5300                                  |  |                                     |
| Bottom Logged Interval       | 5292                                  |  |                                     |
| Top Log Interval             | 200                                   |  |                                     |
| Casing Driller               | 10 3/4"@276'                          |  |                                     |
| Casing Logger                | 276                                   |  |                                     |
| Bit Size                     | 7 7/8"                                |  |                                     |
| Type Fluid in Hole           | CHEMICAL MUD                          |  | CHLORIDES 7,000 PPM                 |
| Density / Viscosity          | 8.9/50                                |  |                                     |
| pH / Fluid Loss              | 10.5/10.8                             |  |                                     |
| Source of Sample             | FLOWLINE                              |  |                                     |
| Rm @ Meas. Temp              | .450@92F                              |  |                                     |
| Rmf @ Meas. Temp             | .338@92F                              |  |                                     |
| Rmc @ Meas. Temp             | .540@92F                              |  |                                     |
| Source of Rmf / Rmc          | MEASUREMENT                           |  |                                     |
| Rm @ BHT                     | .329@129F                             |  |                                     |
| Time Circulation Stopped     | 5.5 HOURS                             |  |                                     |
| Time Logger on Bottom        | 12:45 P.M.                            |  |                                     |
| Maximum Recorded Temperature | 128F                                  |  |                                     |
| Equipment Number             | 922339                                |  |                                     |
| Location                     | HAYS, KANSAS                          |  |                                     |
| Recorded By                  | JEFF LUEBBERS                         |  |                                     |
| Witnessed By                 | BILL KLAVER                           |  |                                     |

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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

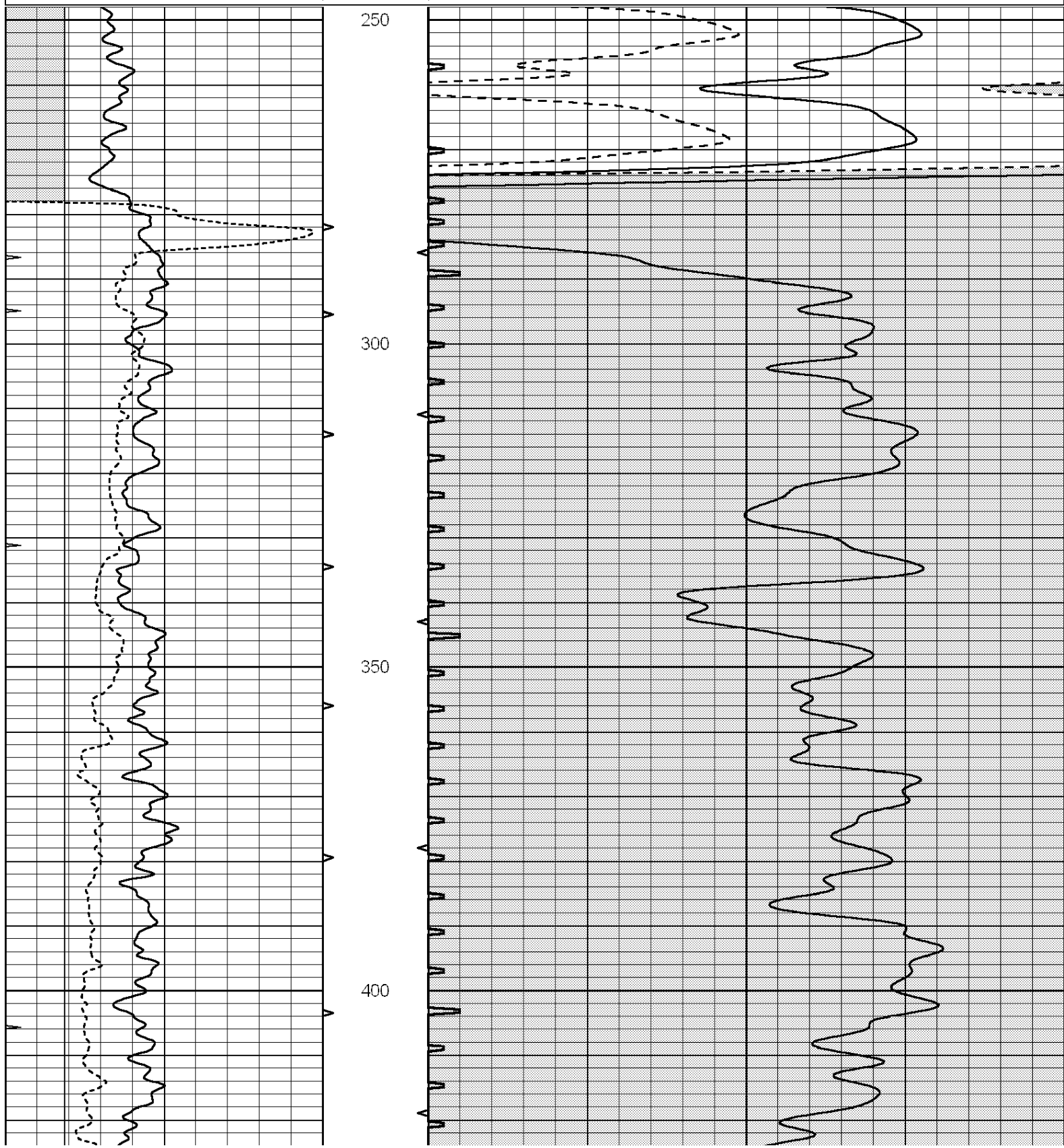
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395  
DIRECTIONS  
MEDICINE LODGE, KS., (160 & 281 JUNCTION) 12 1/2S. TO "SCOTT CANYON RD.", 1W., TO  
"CLAIRMONT RD.", 1N. TO "BLACK KETTLE RD." 1/2W., N. INTO

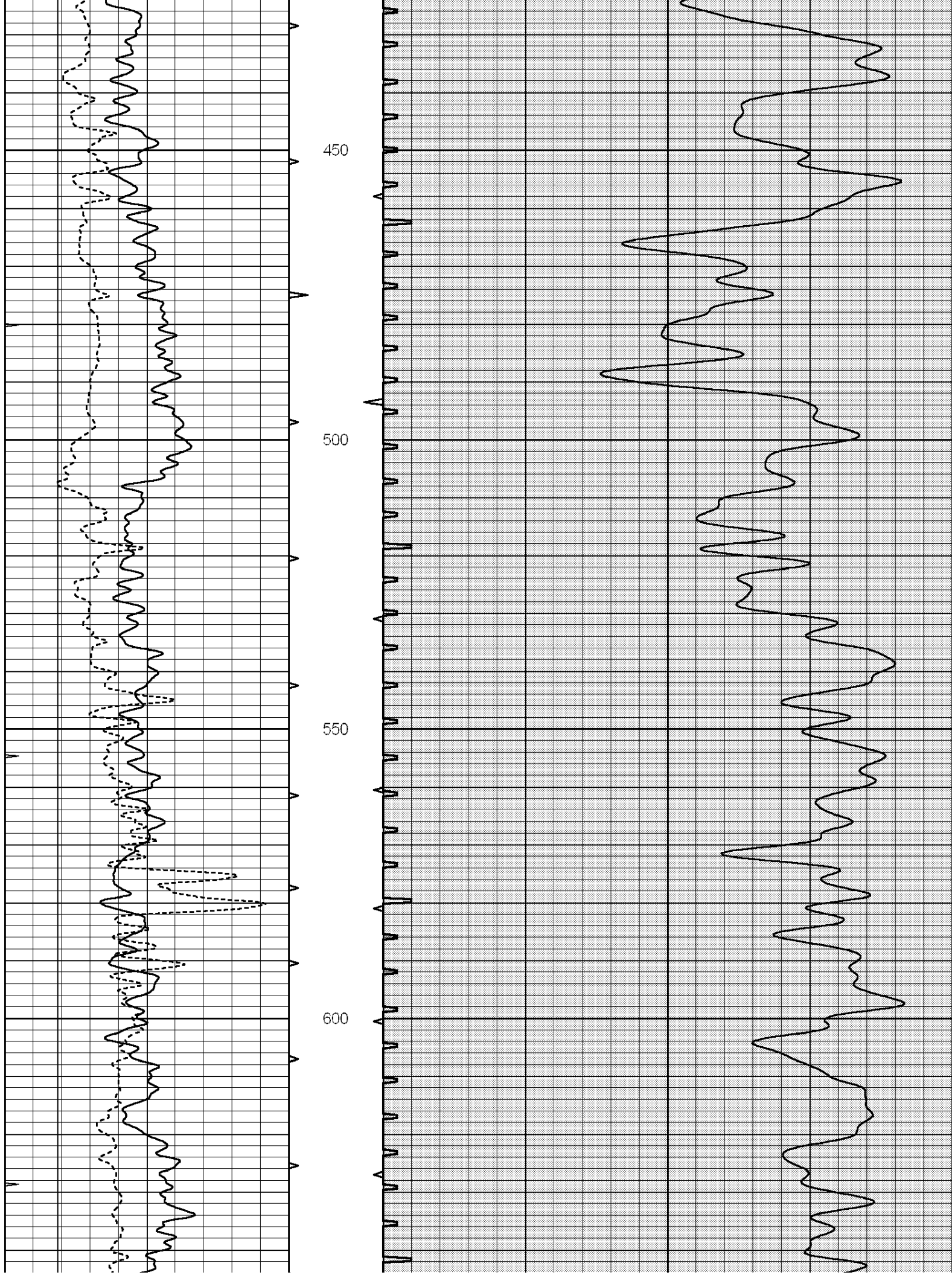


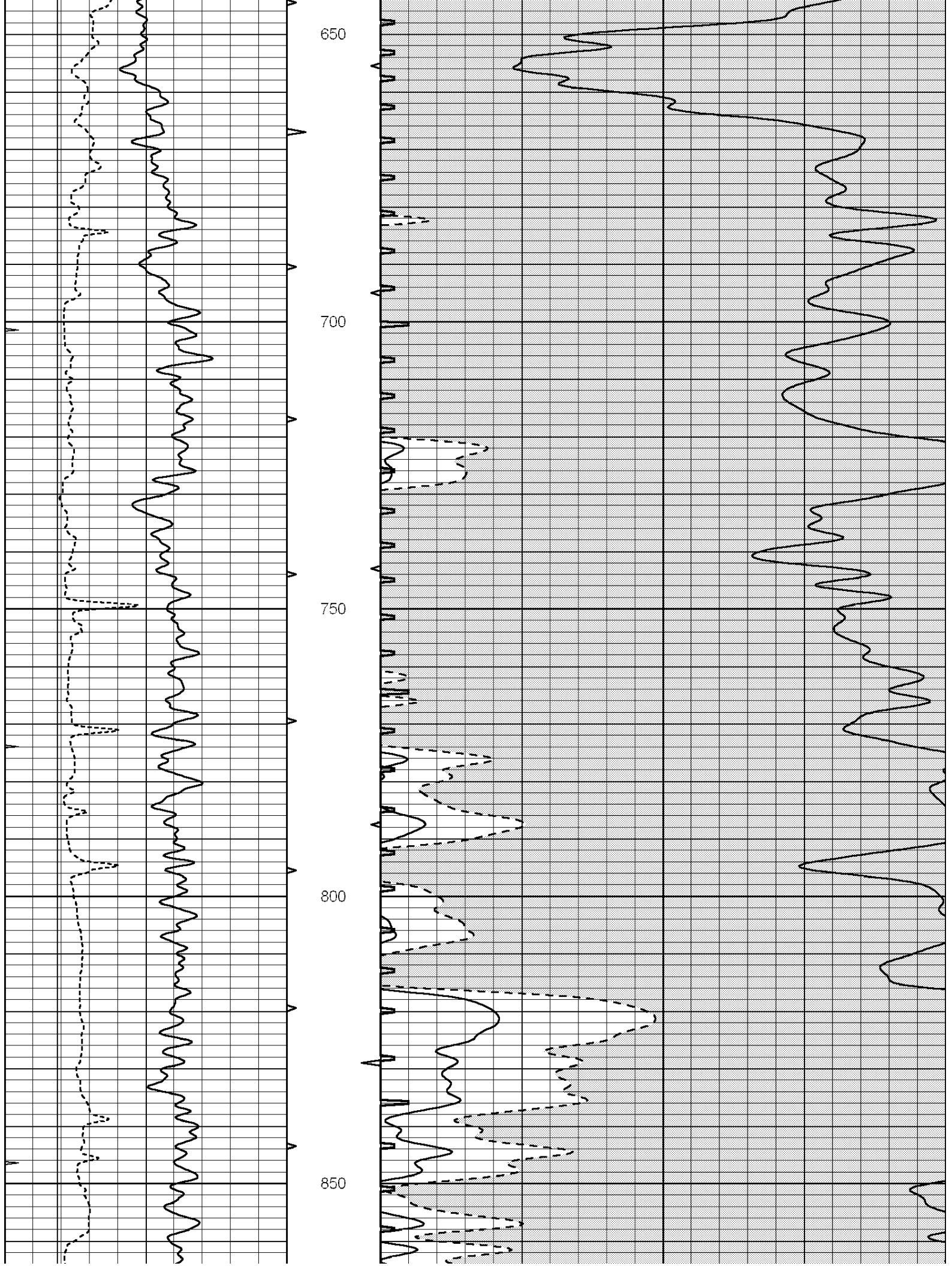
# MAIN SECTION

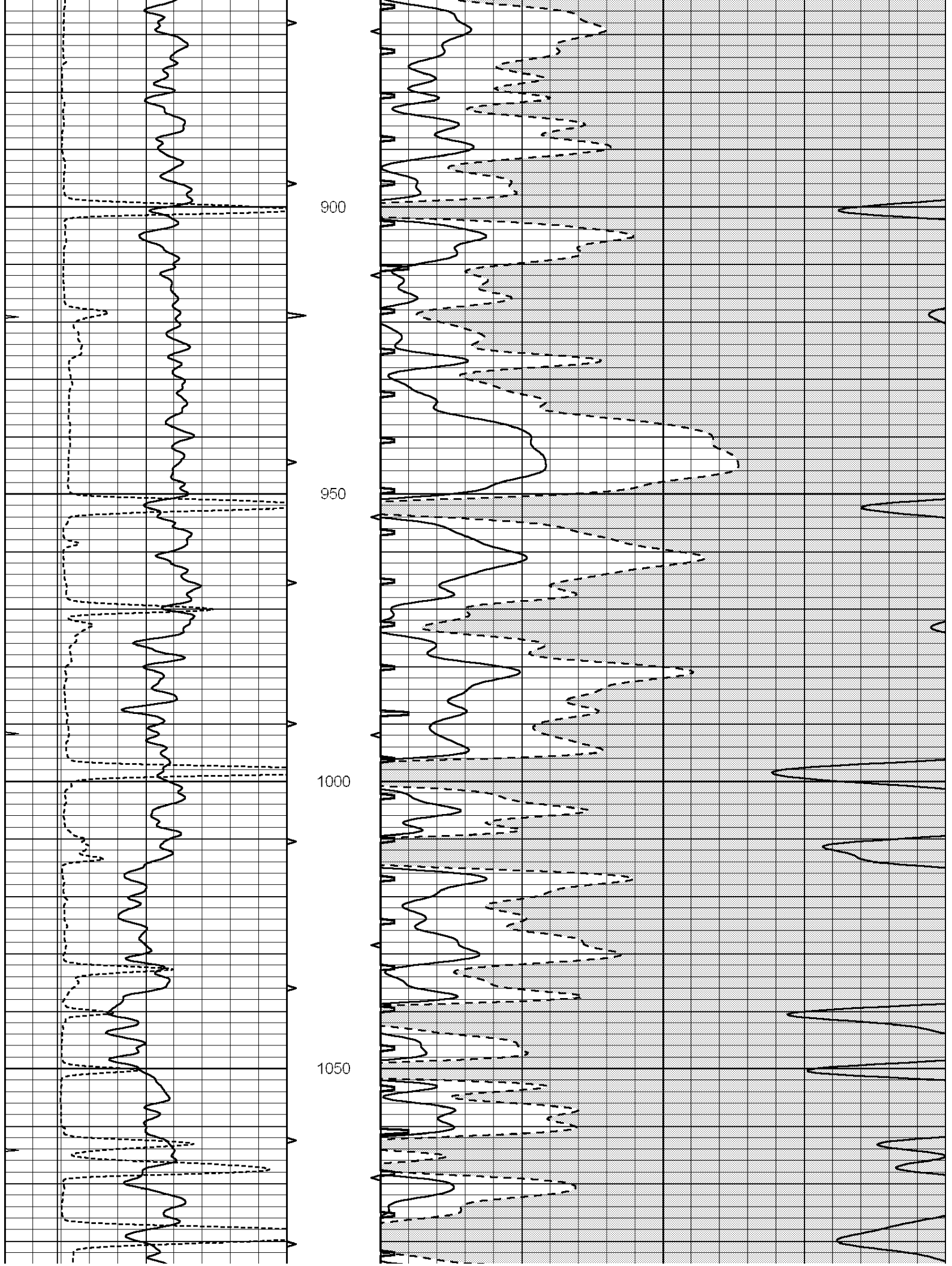
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Presentation Format: slt  
Dataset Creation: Thu Aug 01 15:02:08 2019  
Charted by: Depth in Feet scaled 1:240

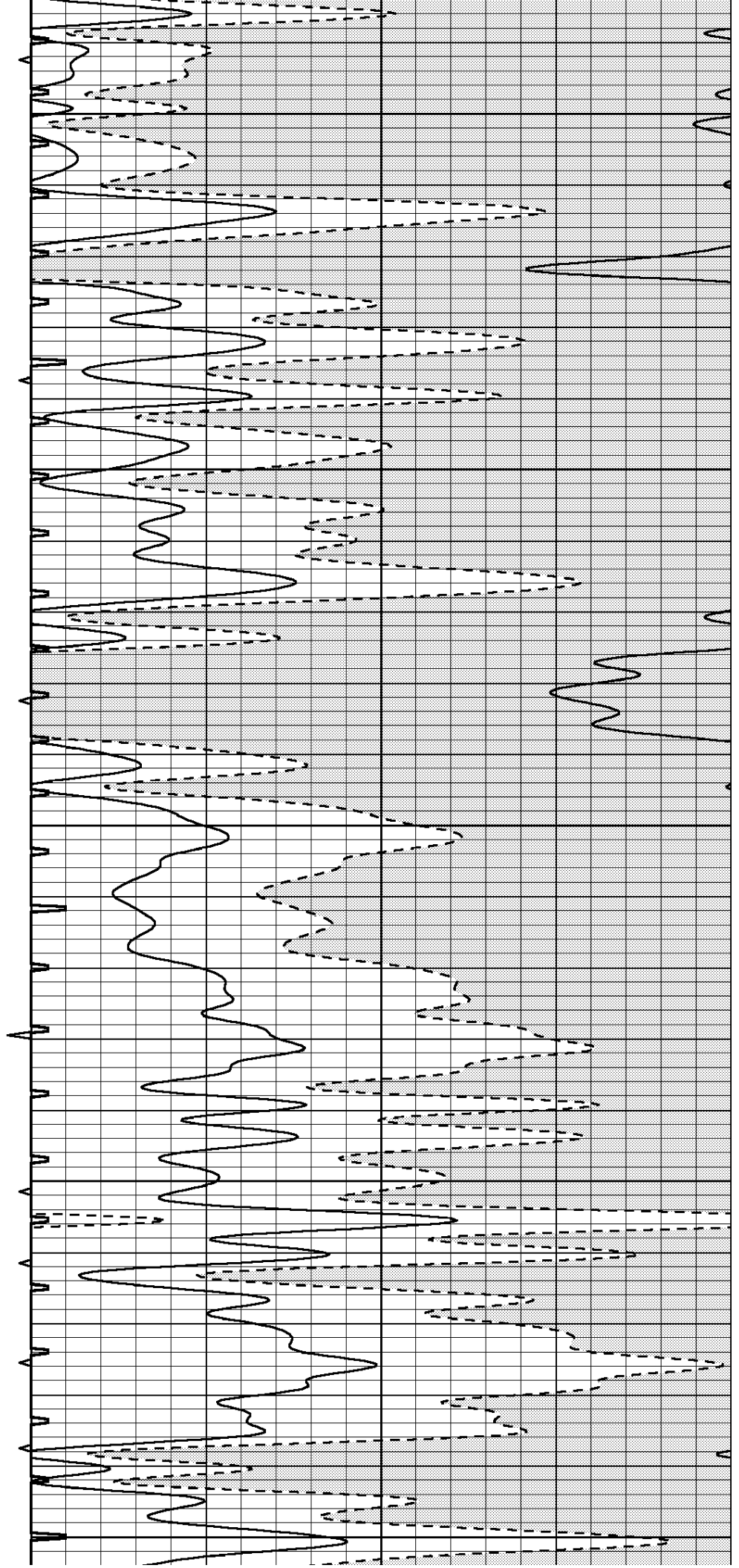
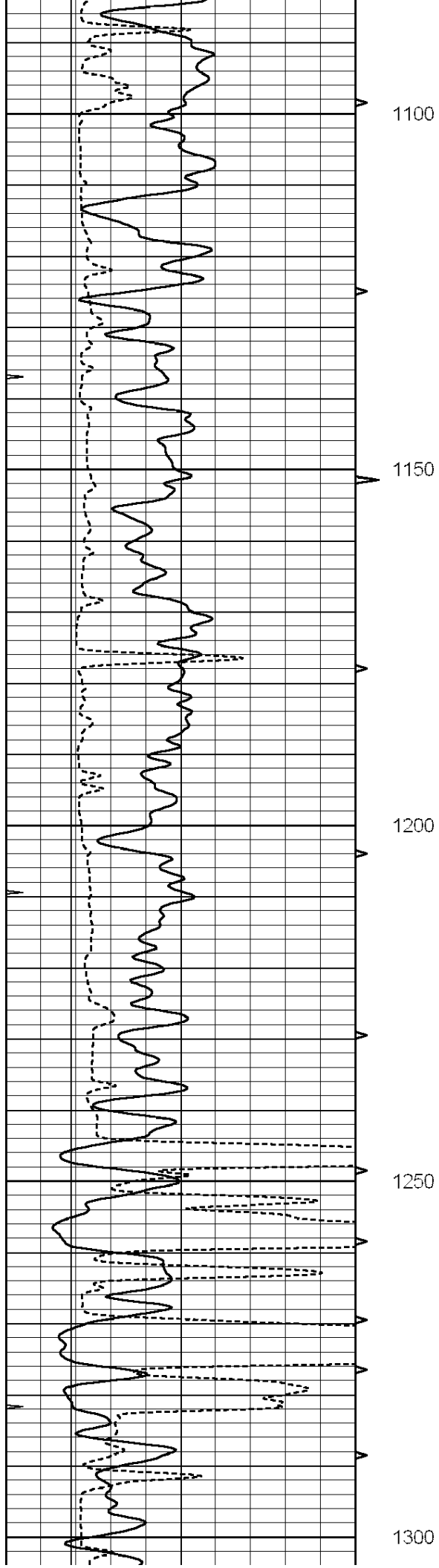
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|-------|------------------|-----|----------|-----|----------------------|---------------------|----|-----|
| 0     | GAMMA RAY (GAPI) | 150 | ABHV     | 140 | DELTA TIME (usec/ft) |                     | 40 |     |
| 6     | CALIPER (in)     | 16  | 10 (ft3) | 0   | 30                   | SONIC POROSITY (pu) |    | -10 |
| ----- |                  |     |          |     |                      | -----               |    |     |
| 0     | MINMK            | 20  | TBHV     | 0   | ITT (msec)           | 20                  |    |     |
|       |                  |     | 0 (ft3)  | 10  |                      |                     |    |     |

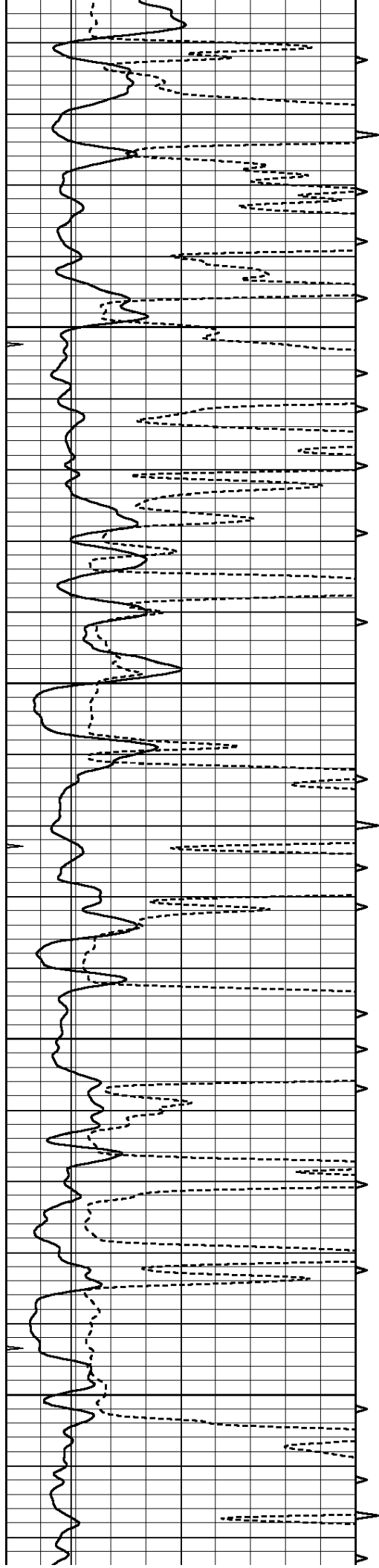










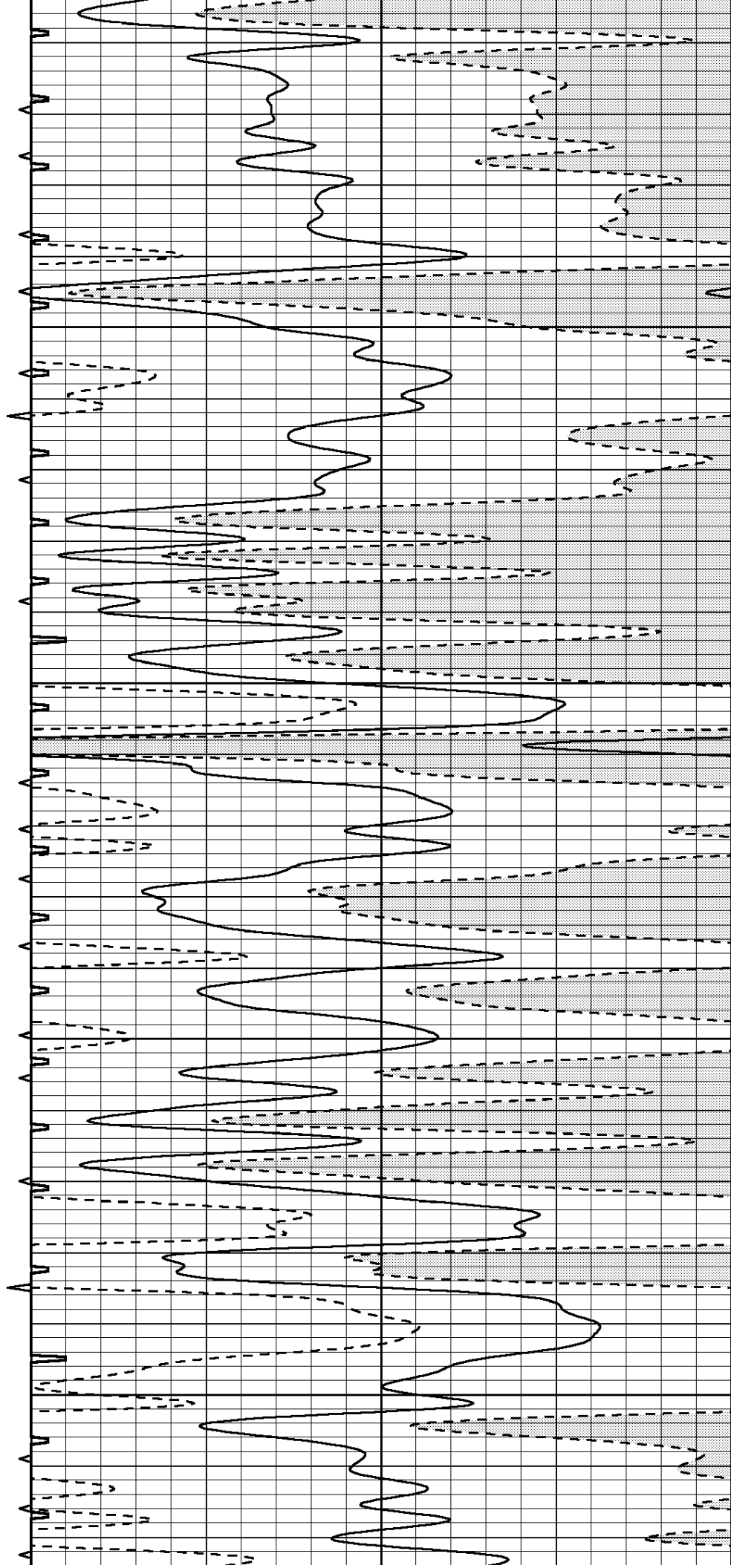


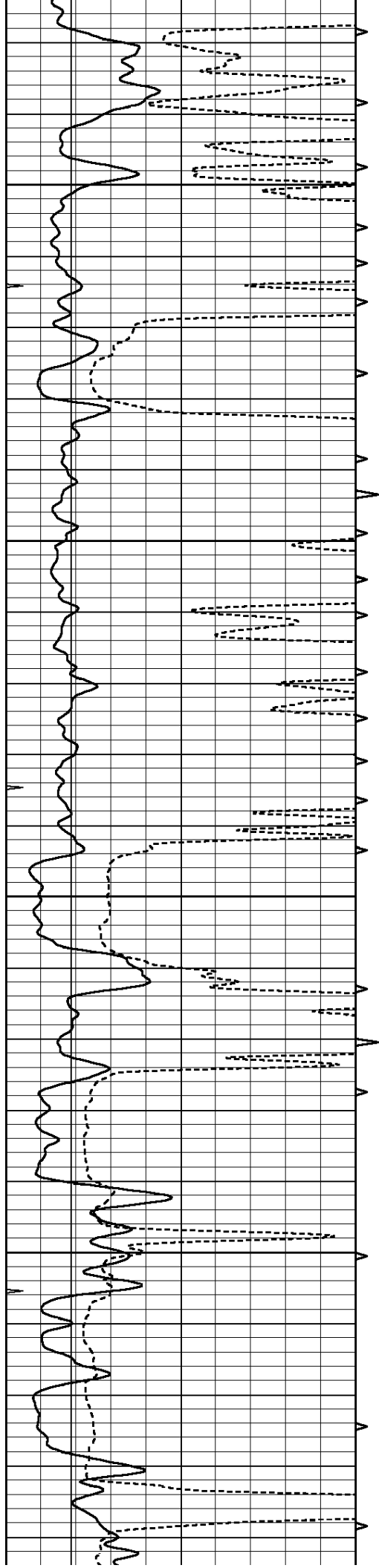
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1400

1450

1500



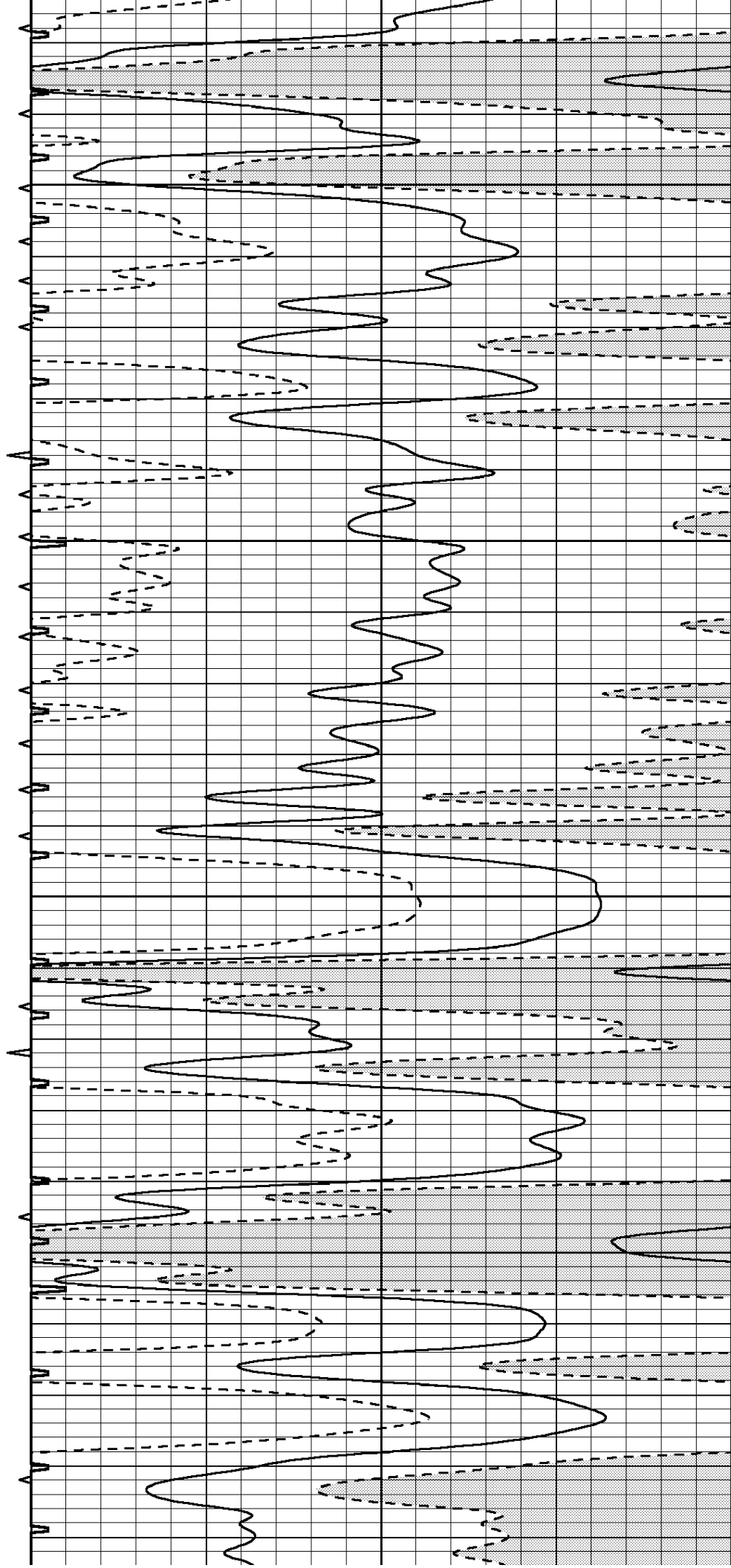


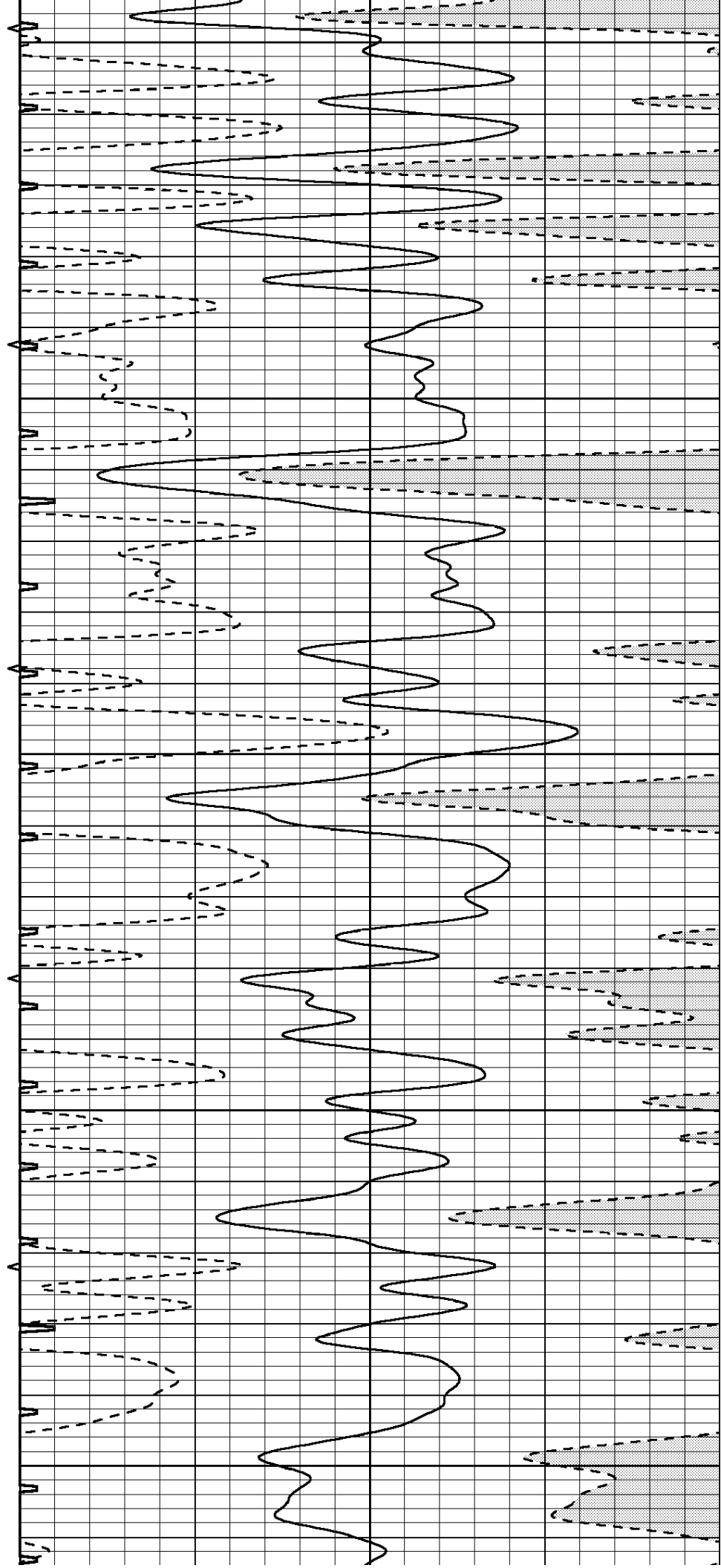
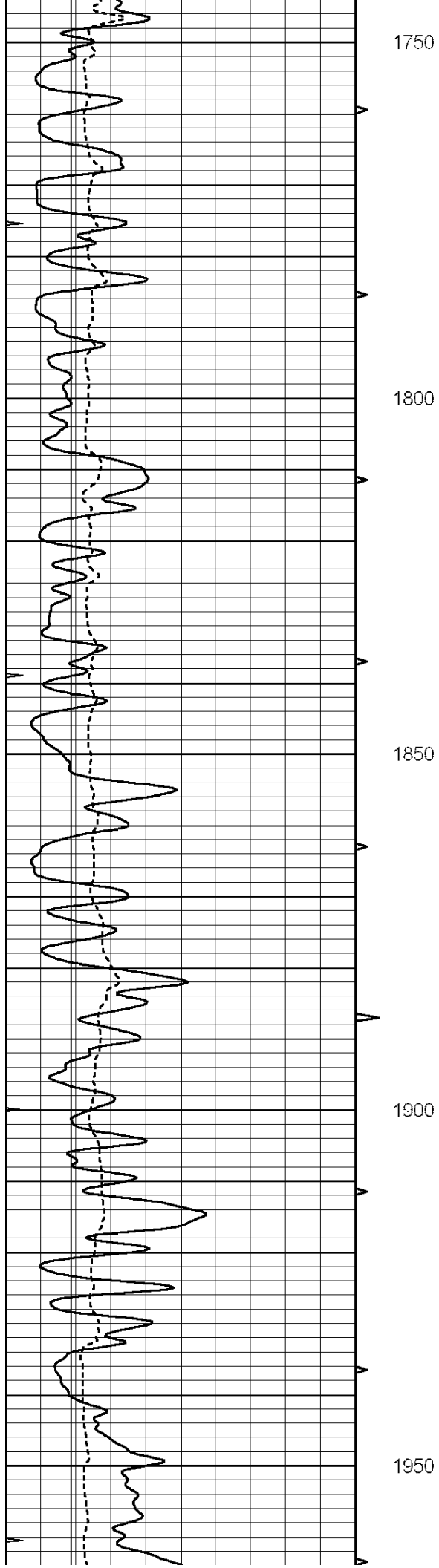
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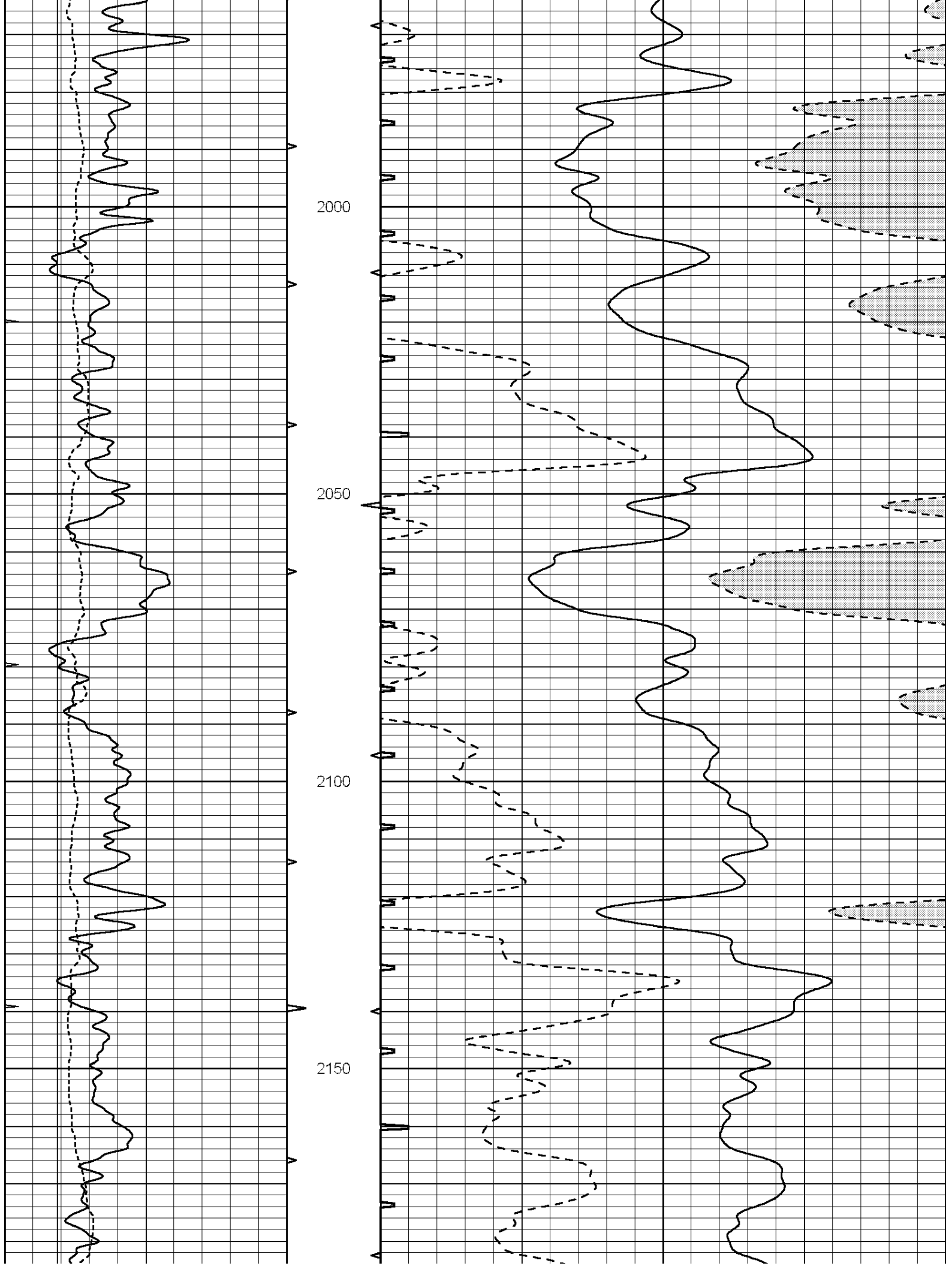
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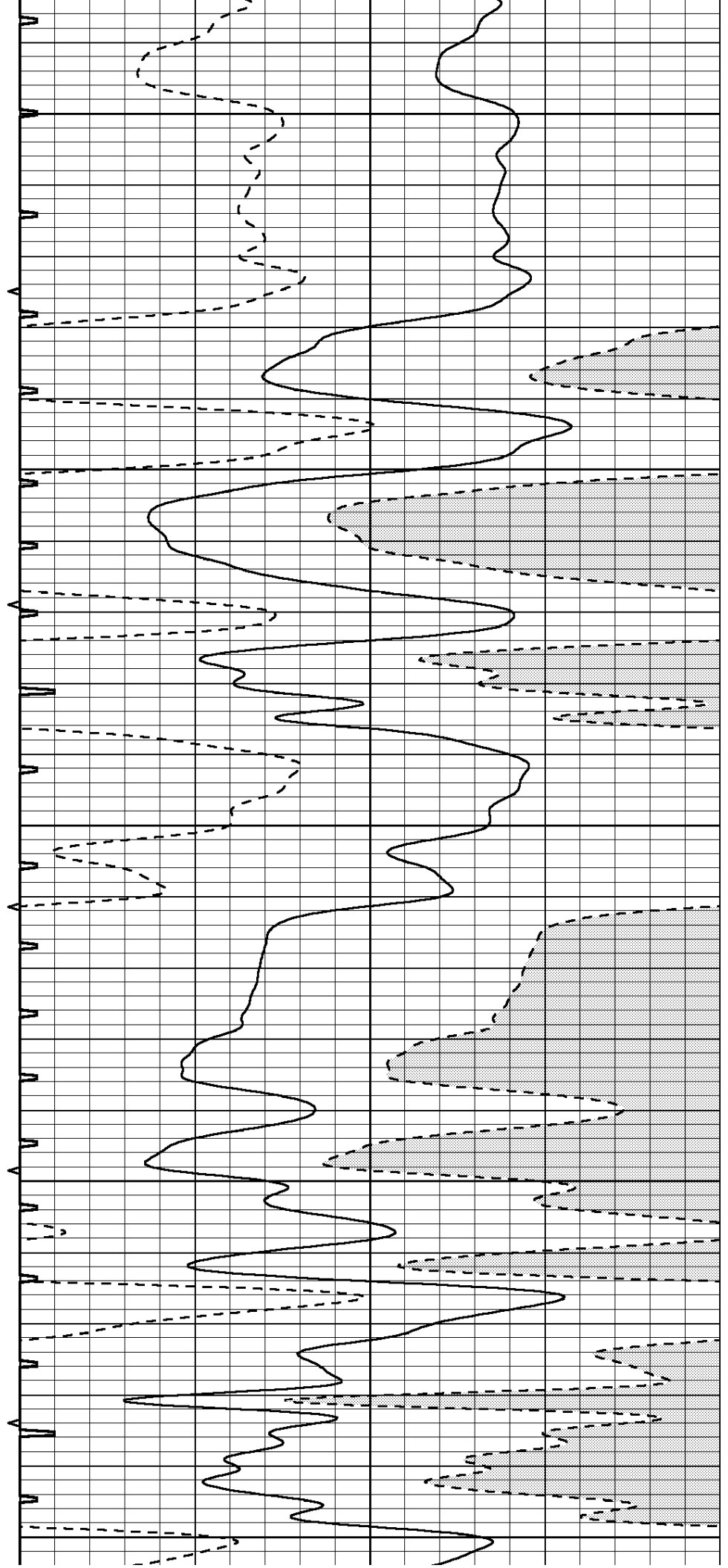
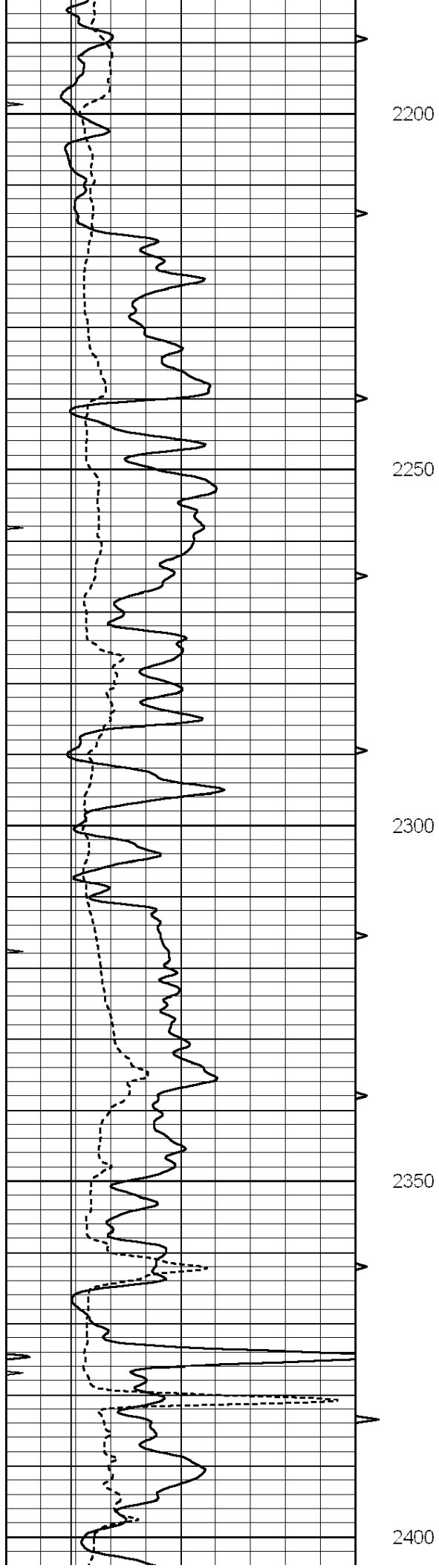
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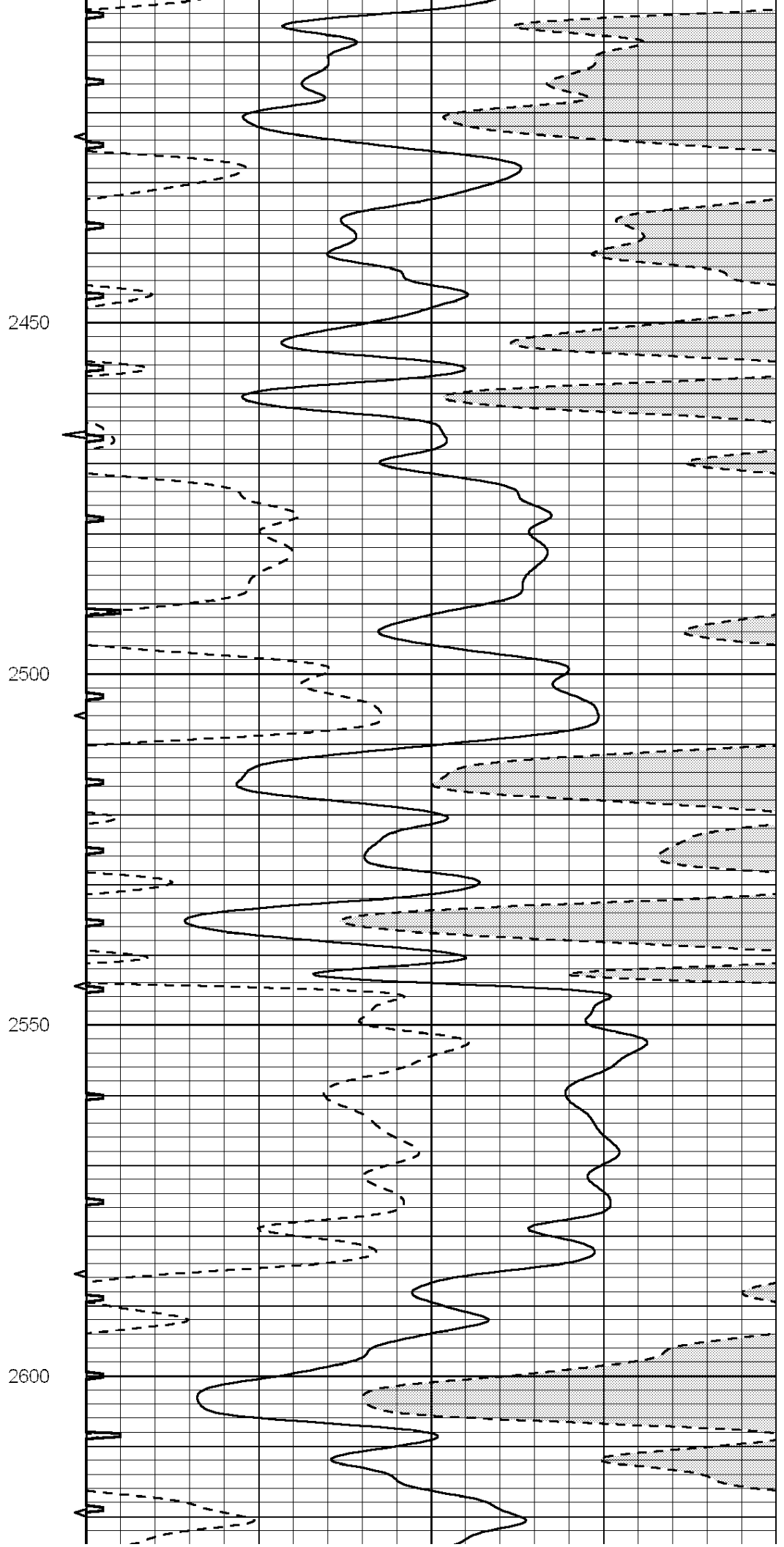
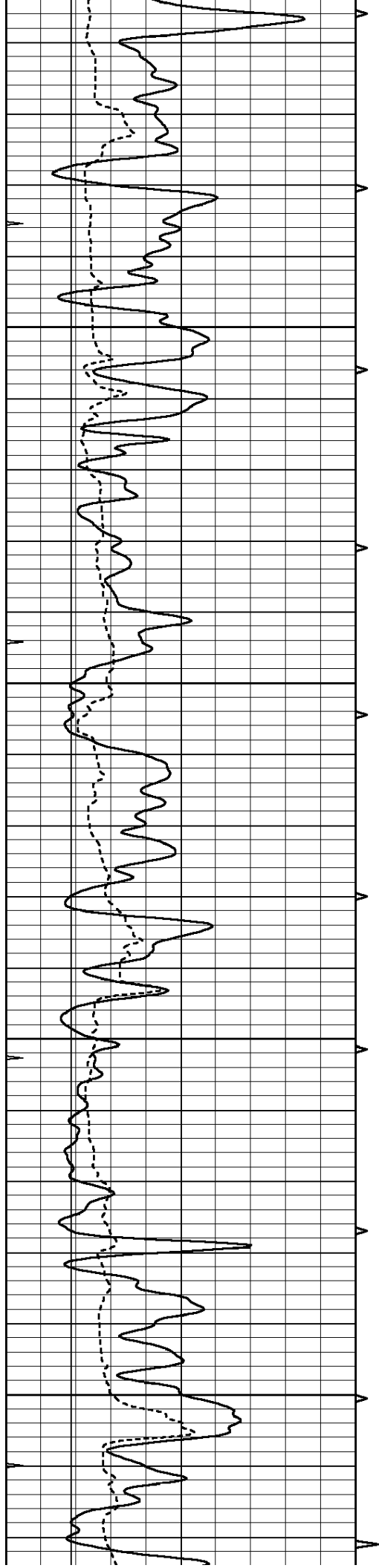
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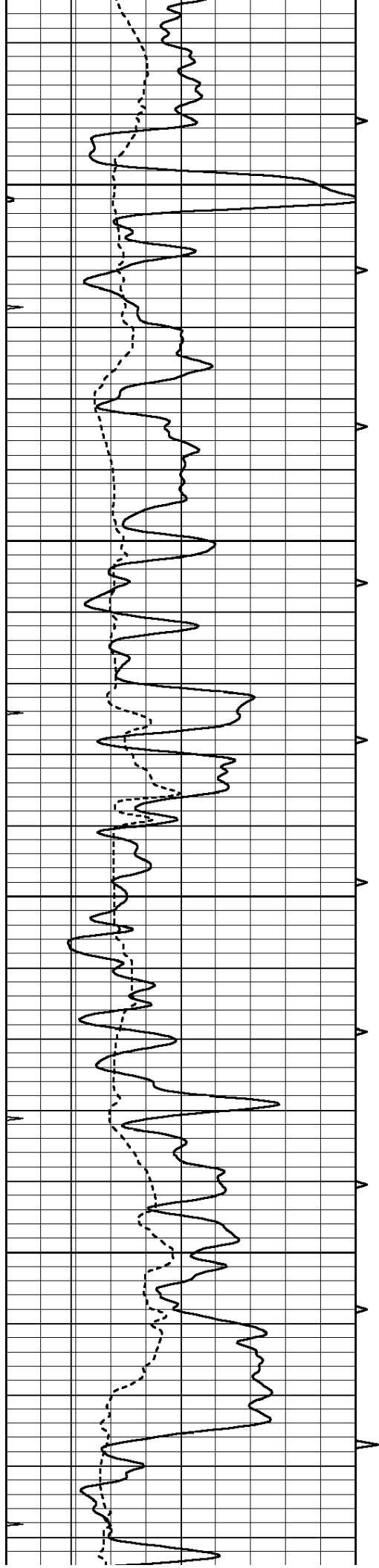










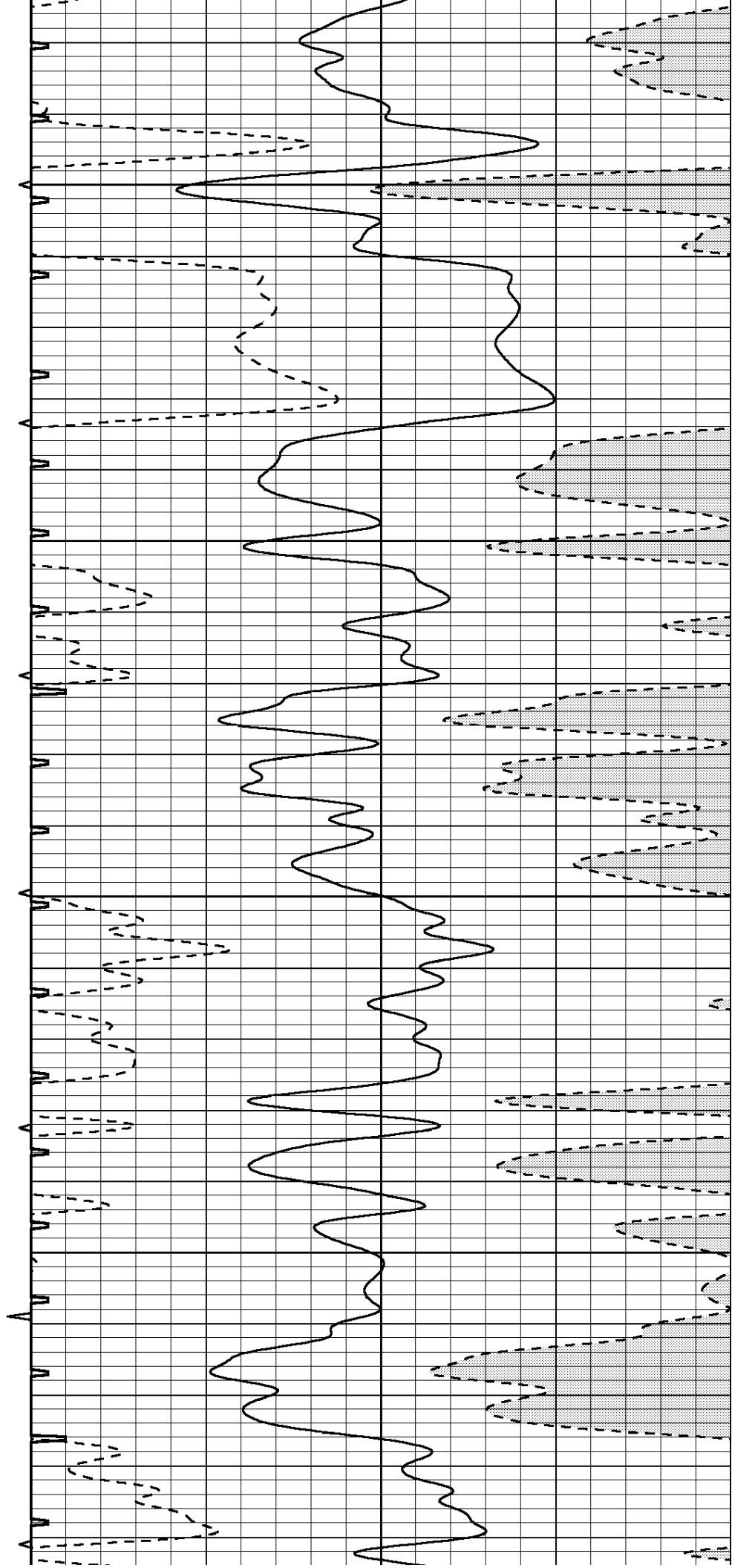


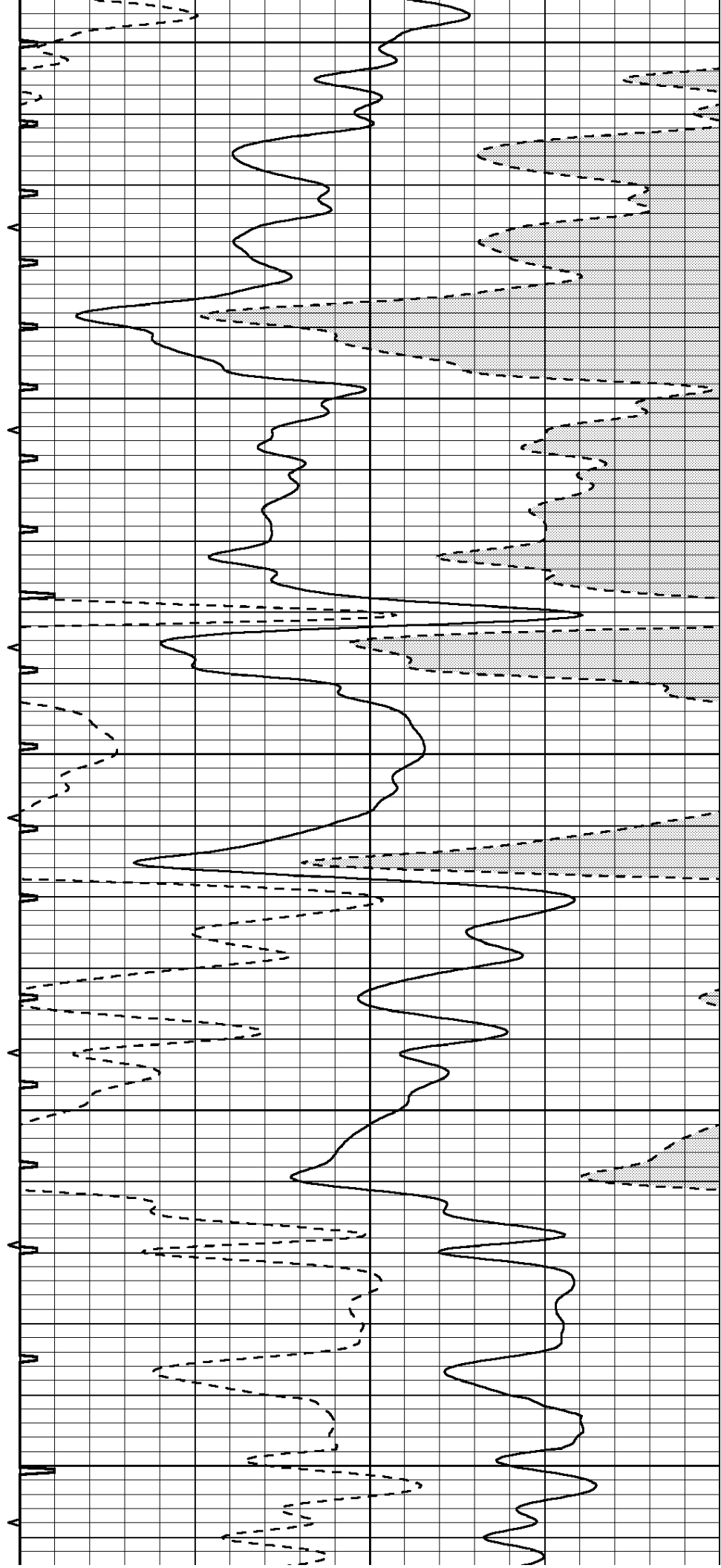
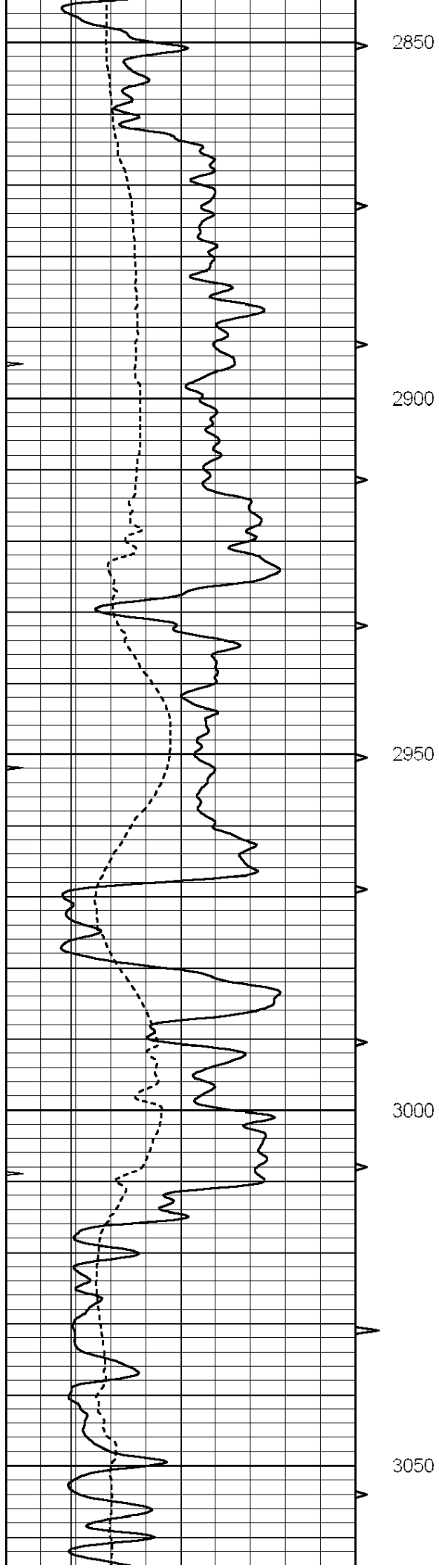
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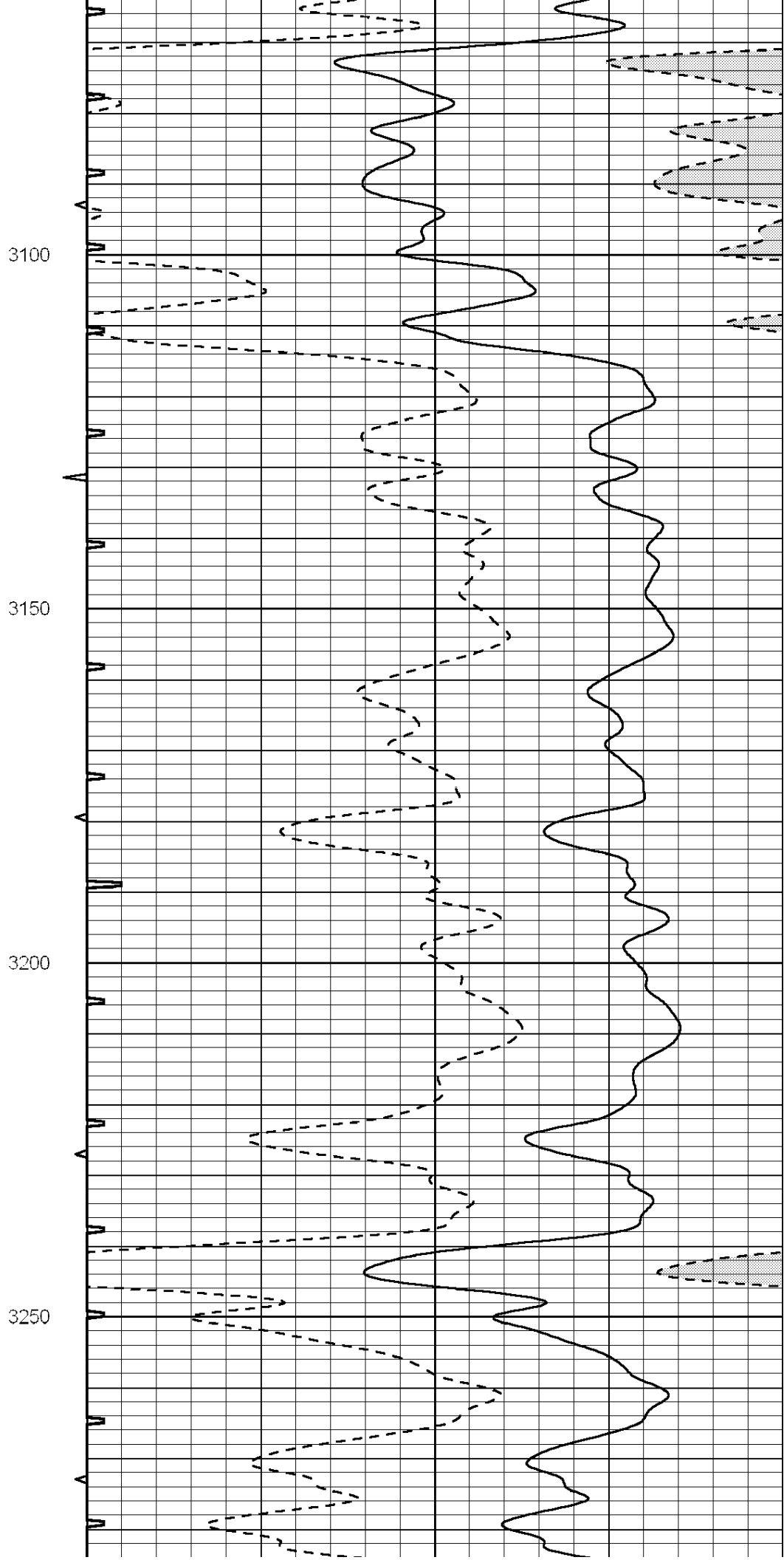
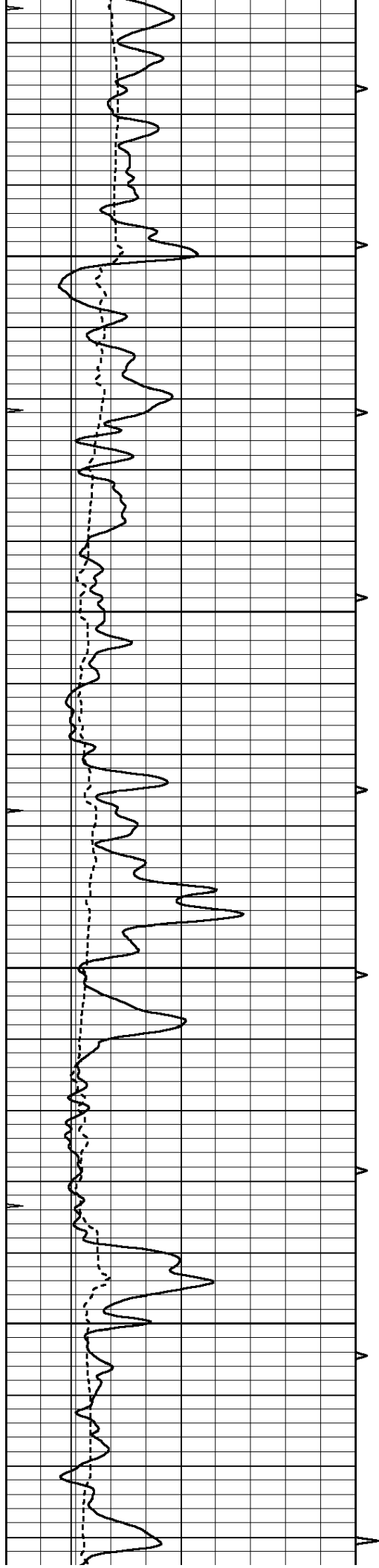
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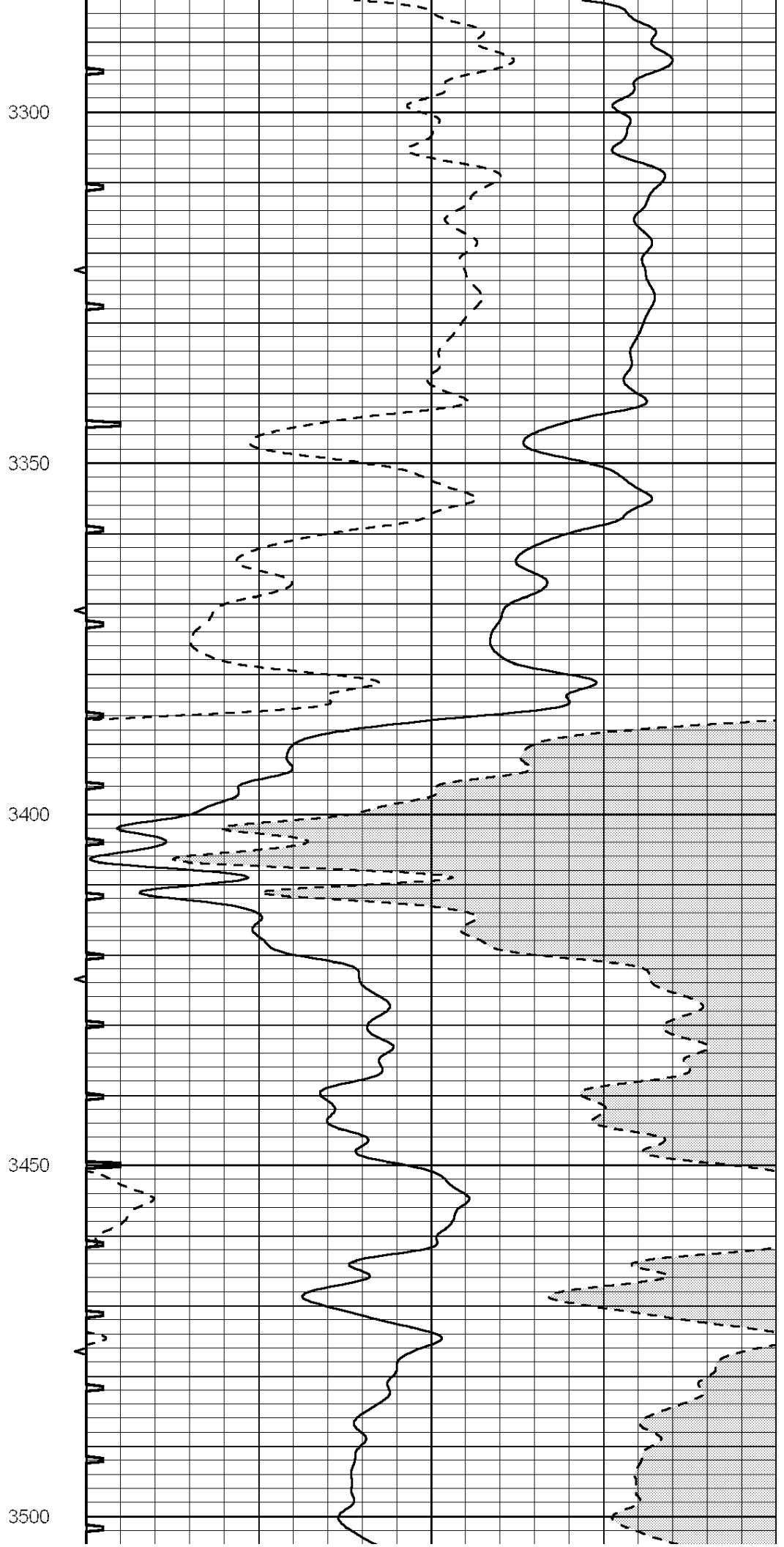
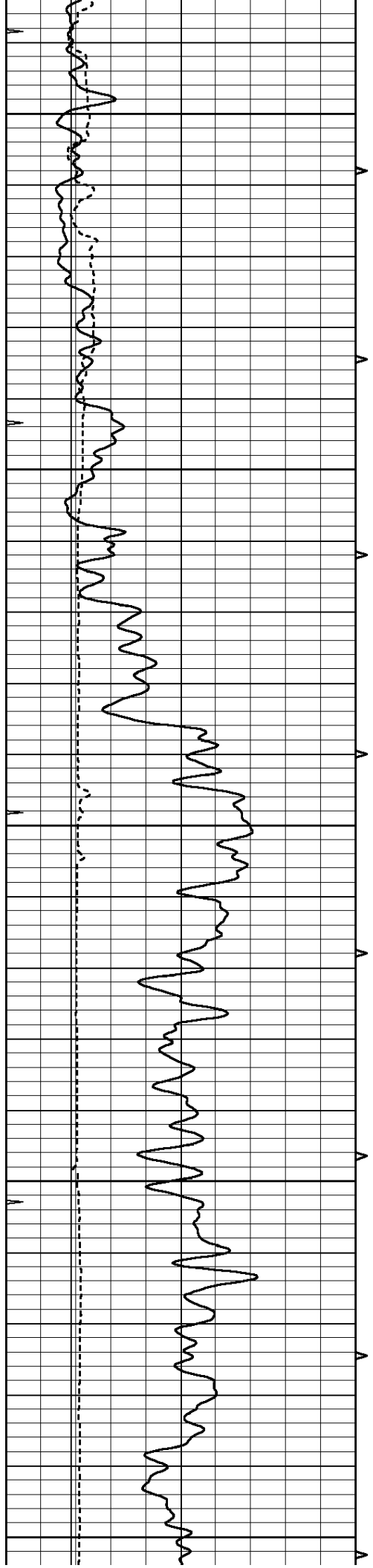
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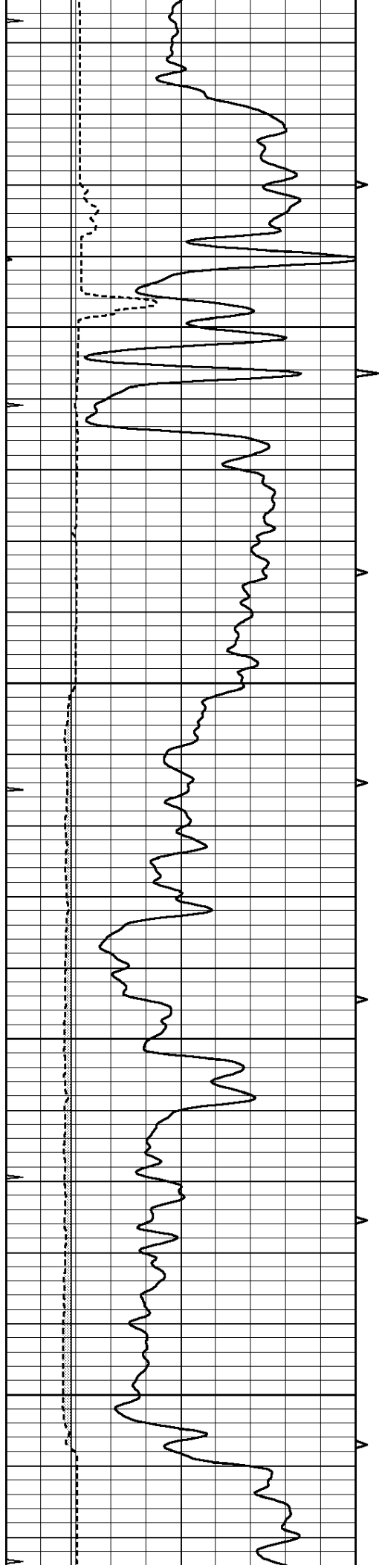
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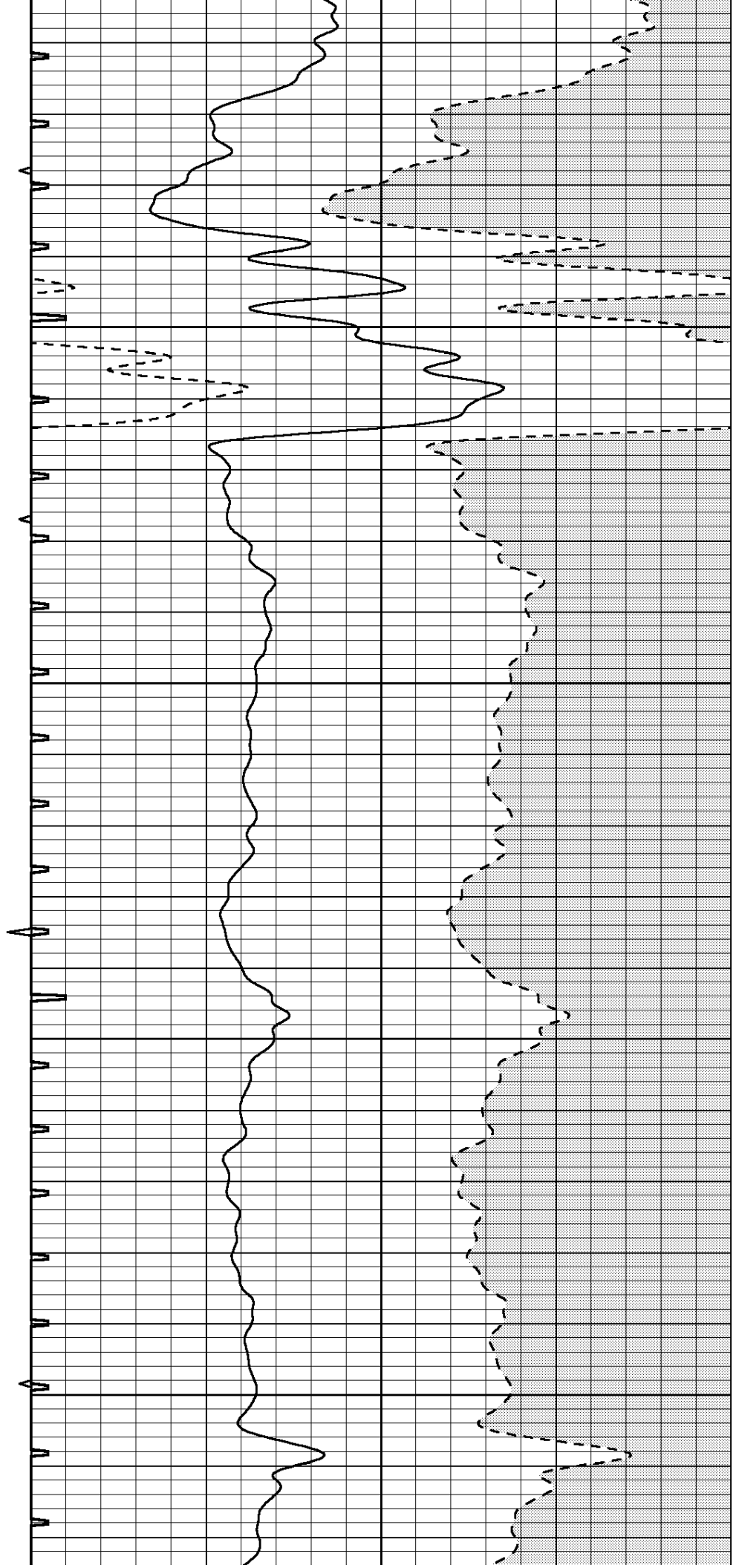


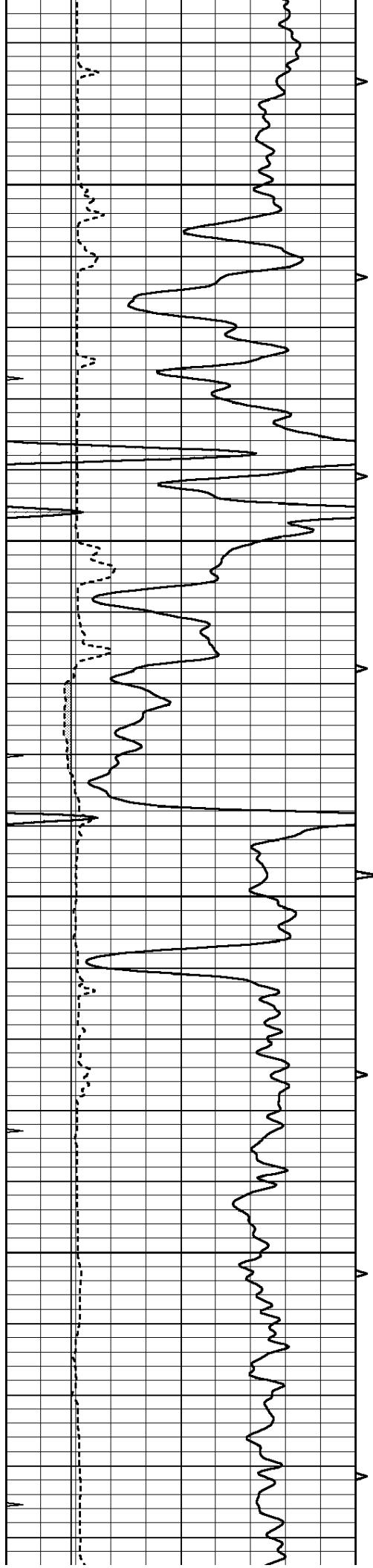
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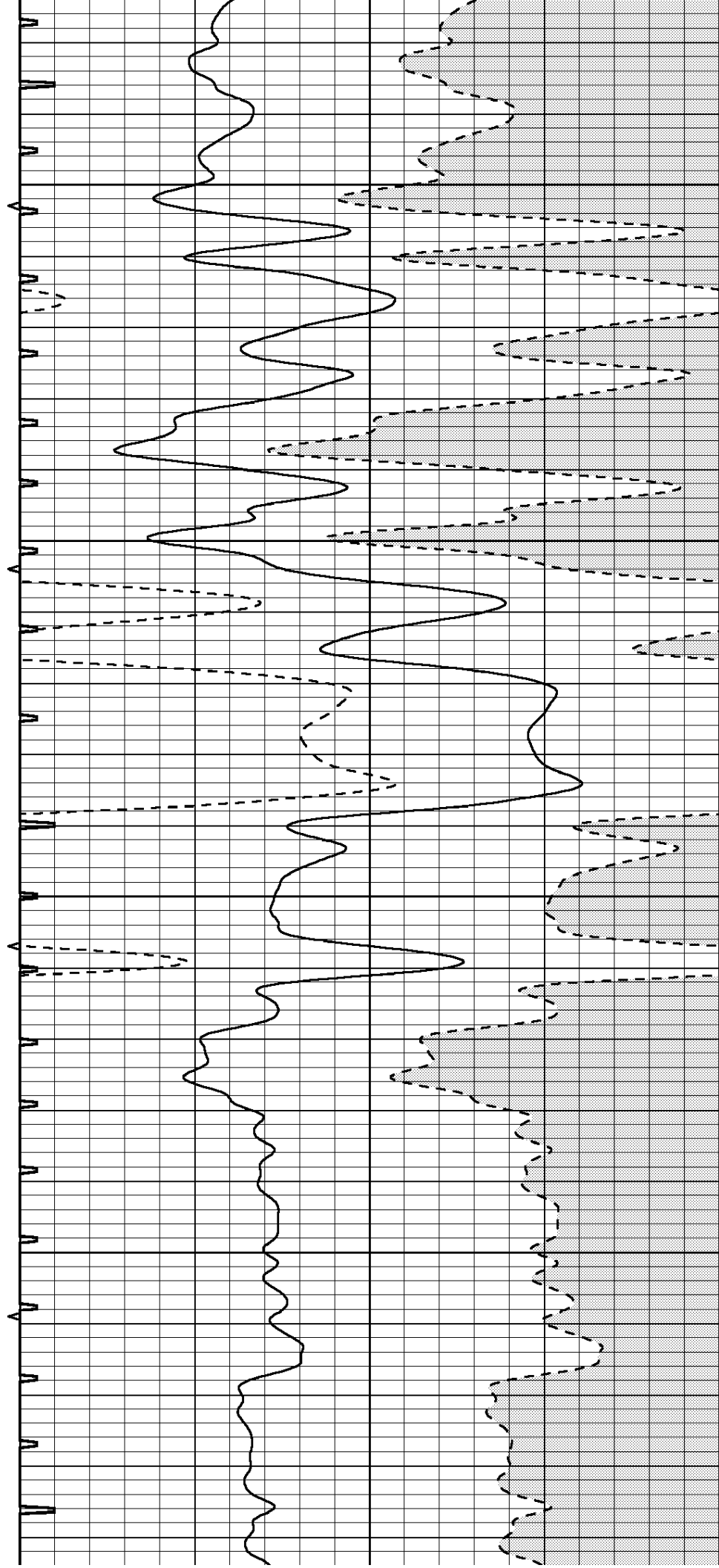


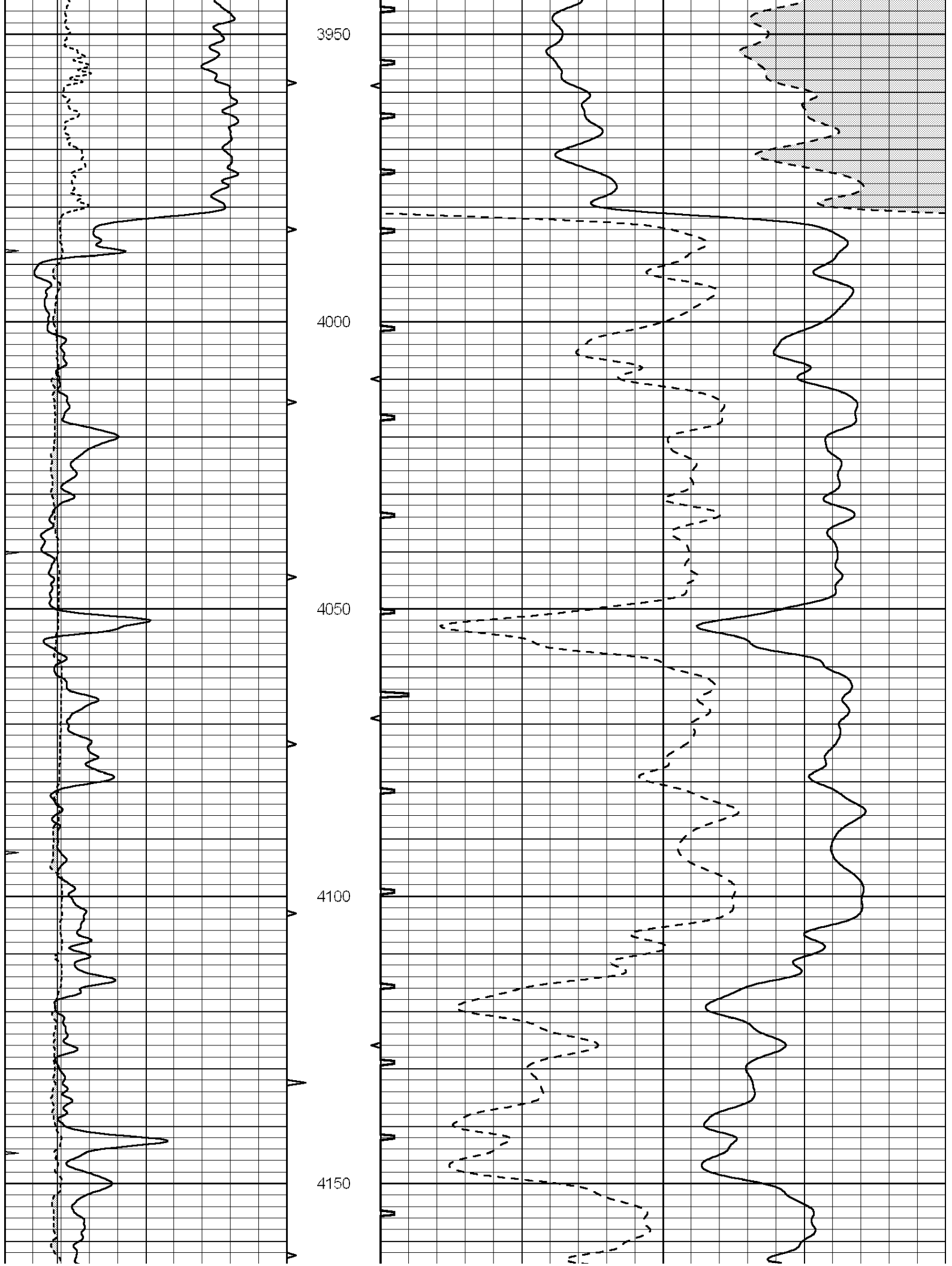
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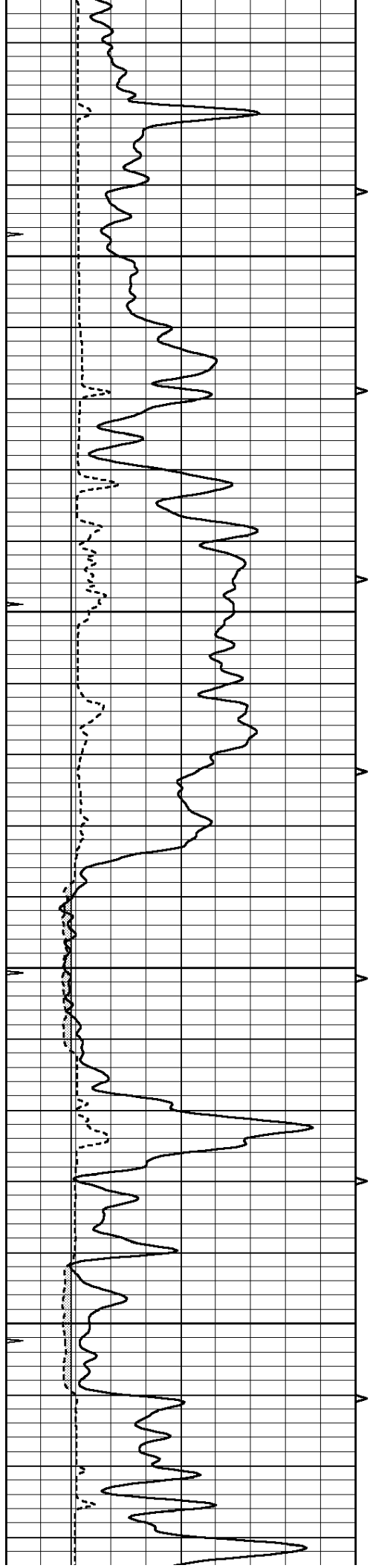
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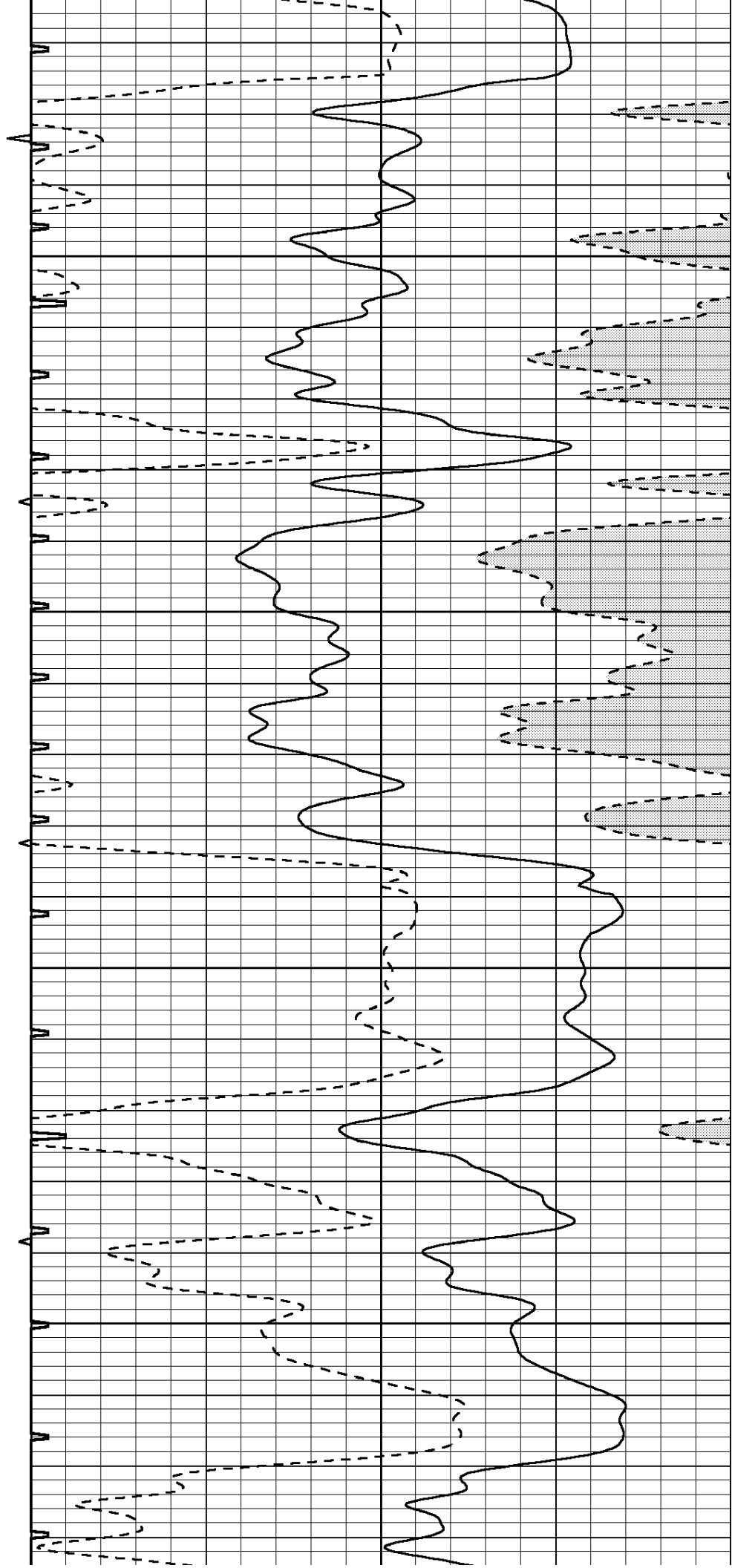


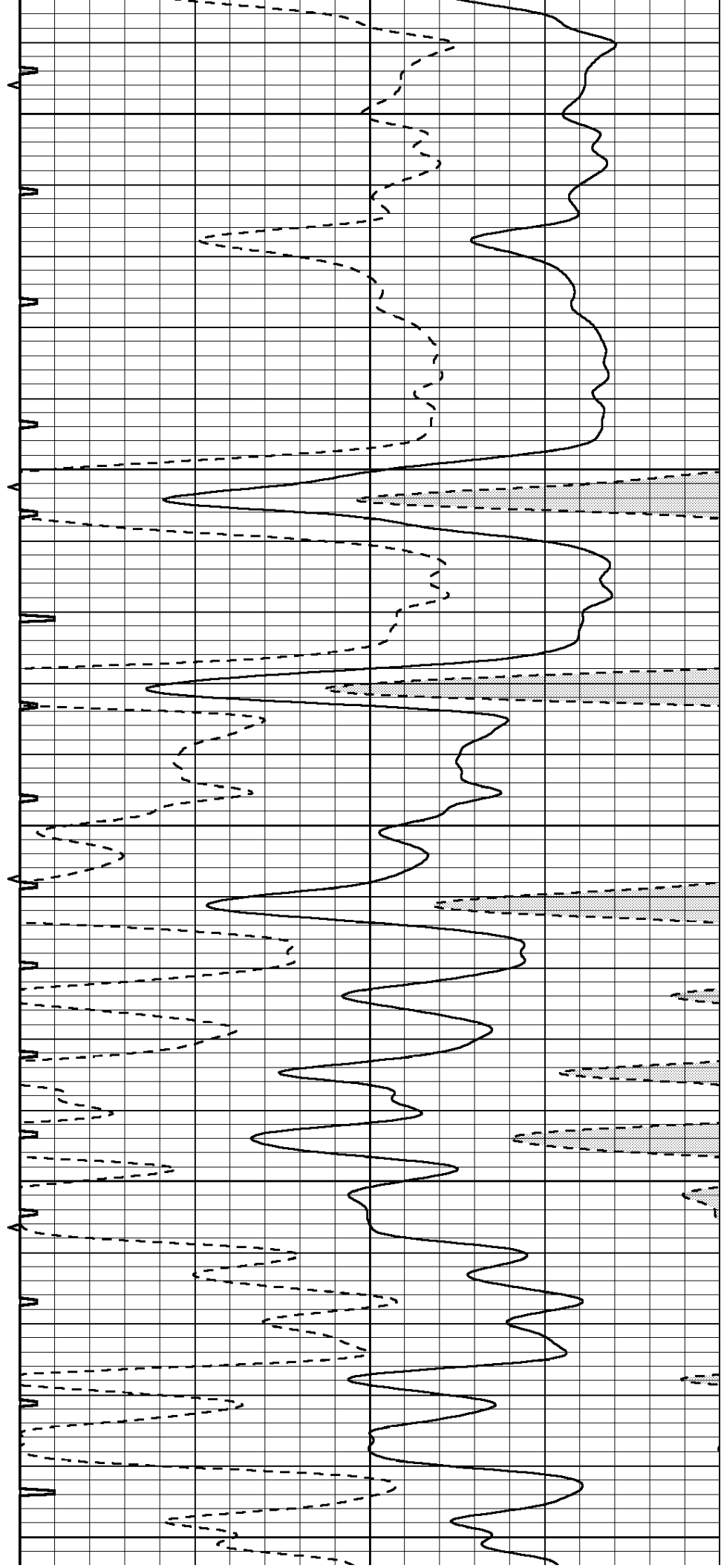
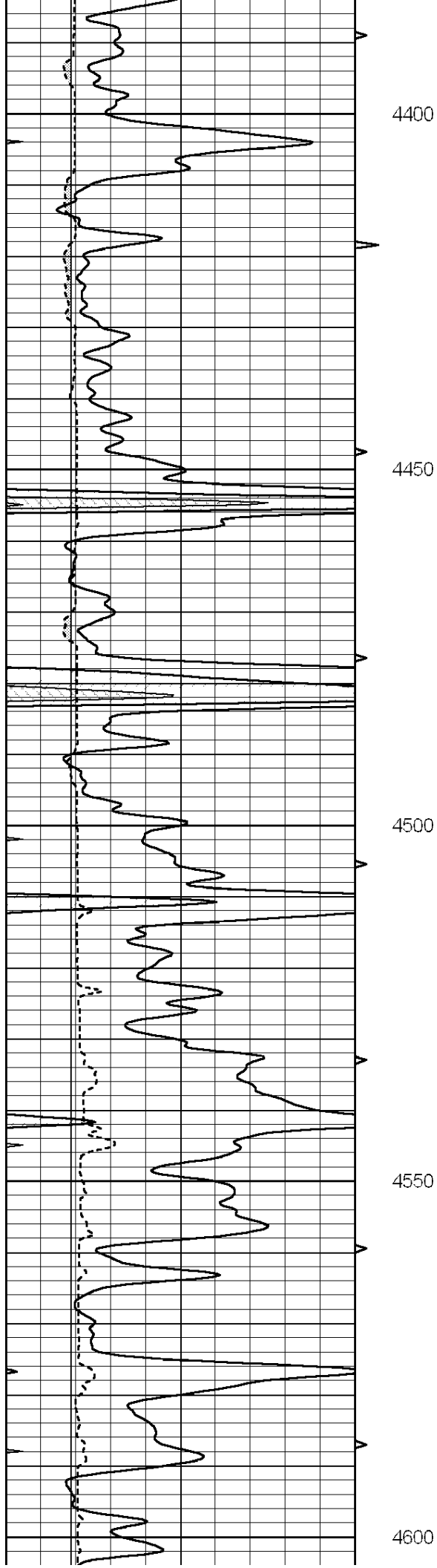
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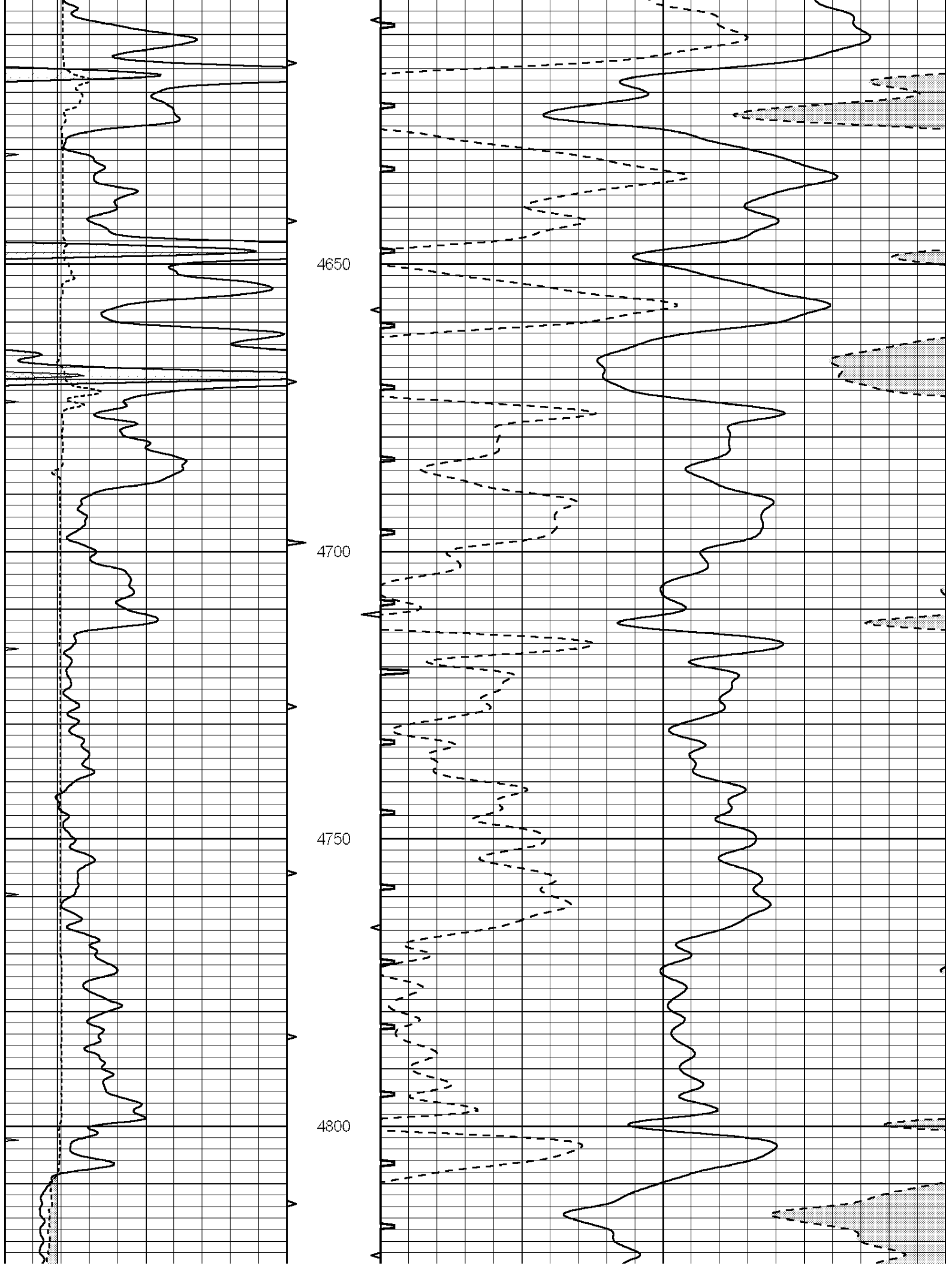
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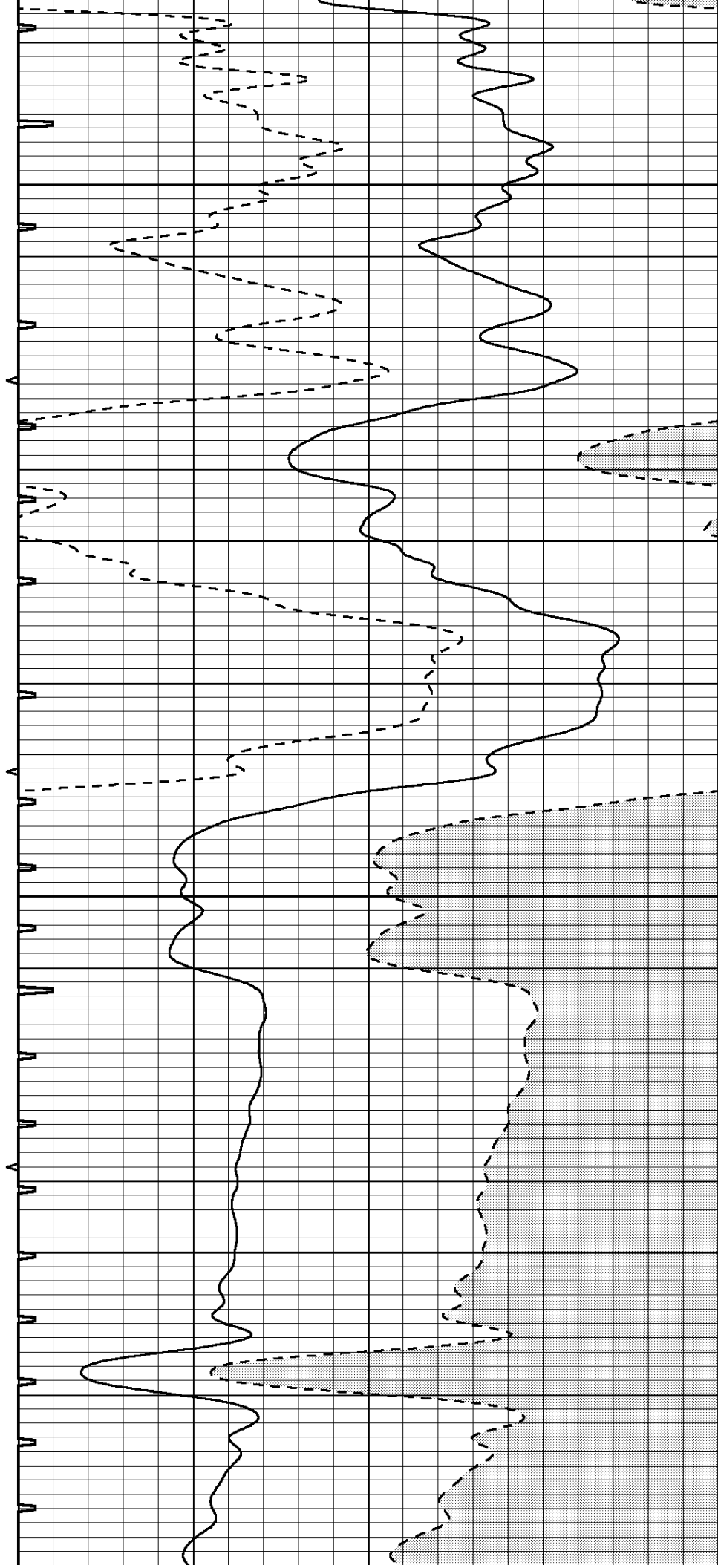
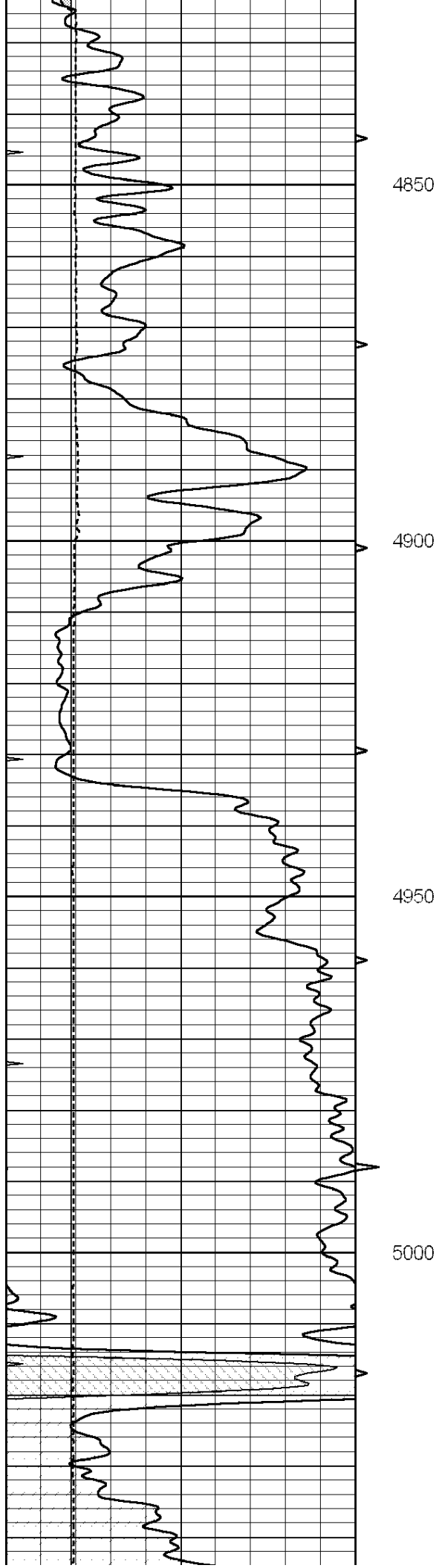
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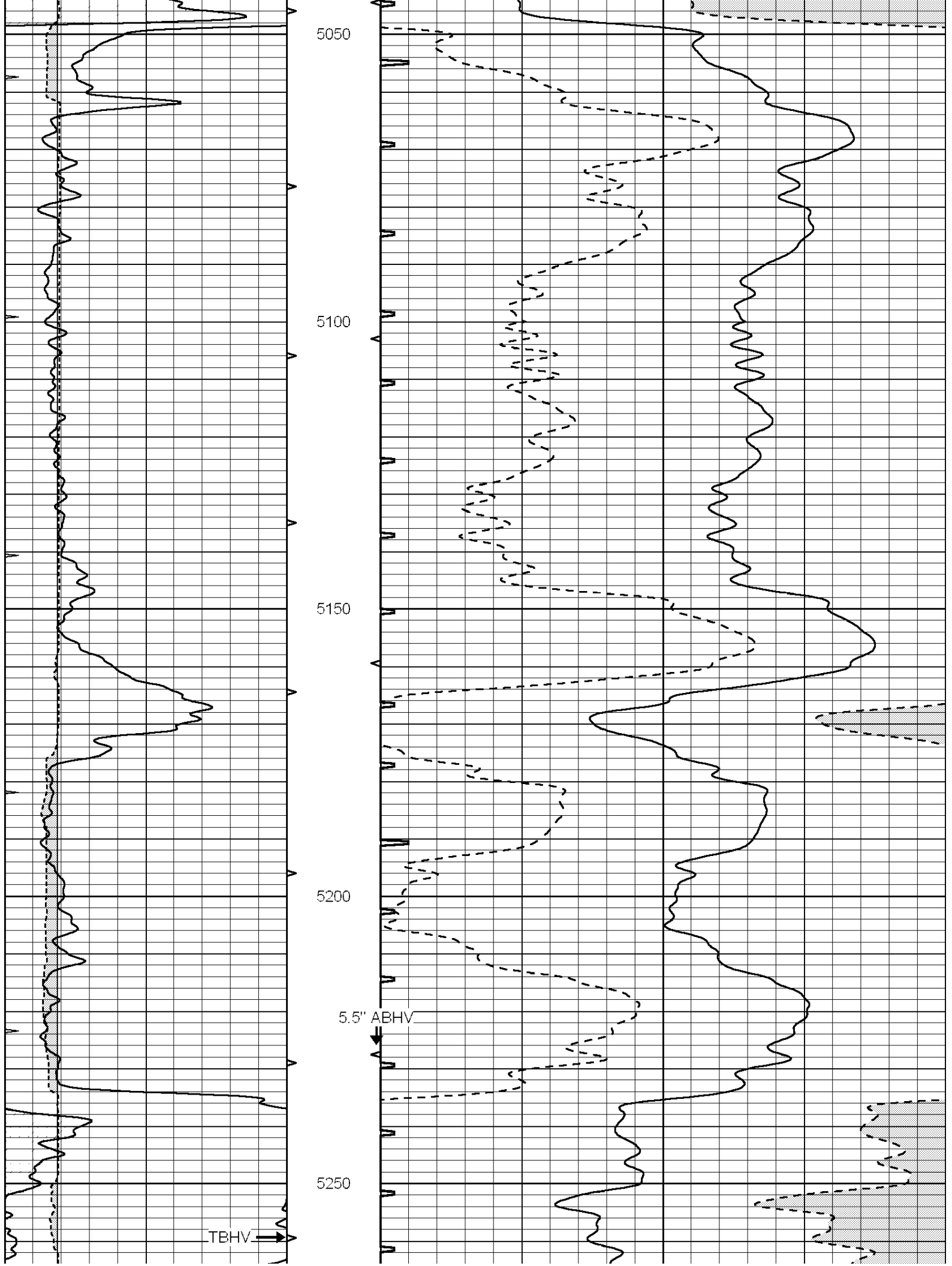
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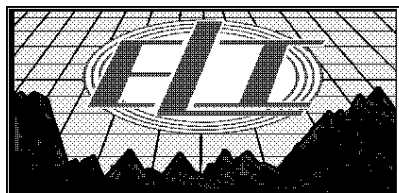
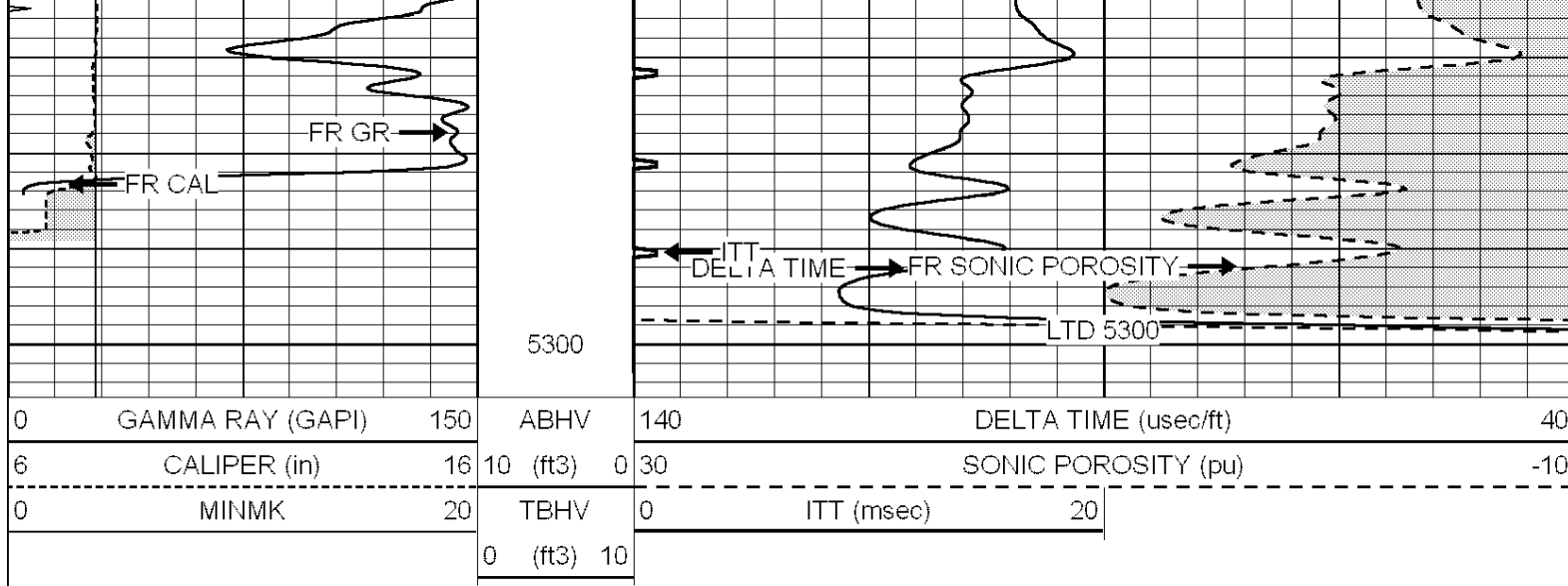












# REPEAT SECTION

Database File: 3748pe.db  
 Dataset Pathname: pass5.1  
 Presentation Format: slt  
 Dataset Creation: Thu Aug 01 13:06:22 2019 by Calc SOC 120430  
 Charted by: Depth in Feet scaled 1:240

