



**SUPERIOR**  
**Hays,**  
**Kansas**

**SONIC**  
**LOG**

Company CAERUS KANSAS, LLC.  
Well HOFFMAN RANCH #23-23  
Field HOISINGTON EAST  
County BARTON  
State KANSAS

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Well HOFFMAN RANCH #23-23  
Field HOISINGTON EAST  
County BARTON State KANSAS

Location: API # : 15-009-25639

1795' FSL & 1814' FWL

SEC 123 TWP 17S RGE 13W

Permanent Datum GROUND LEVEL Elevation 1856  
Log Measured From KELLY BUSHING 9' A.G.L.  
Drilling Measured From KELLY BUSHING

Other Services  
CDL/CNL  
MICRO/DIL

Elevation  
K.B. 1865  
D.F.  
G.L. 1856

|                              |              |              |  |
|------------------------------|--------------|--------------|--|
| Date                         | 12-13-11     |              |  |
| Run Number                   | TWO          |              |  |
| Depth Driller                | 3450         |              |  |
| Depth Logger                 | 3449         |              |  |
| Bottom Logged Interval       | 3442         |              |  |
| Top Log Interval             | 800          |              |  |
| Casing Driller               | 820          |              |  |
| Casing Logger                | 820          |              |  |
| Bit Size                     | 7.875        |              |  |
| Type Fluid in Hole           | CHEMICAL MUD |              |  |
| Density / Viscosity          | 9.3 / 45     |              |  |
| pH / Fluid Loss              | 9.5 / 8.8    |              |  |
| Source of Sample             | FLOWLINE     |              |  |
| Rim @ Meas. Temp             | 0.65 @ 70F   |              |  |
| Rinf @ Meas. Temp            | 0.49 @ 70F   |              |  |
| Rinc @ Meas. Temp            | 0.78 @ 70F   |              |  |
| Source of Rinf / Rinc        | MEASURED     |              |  |
| Rim @ BHT                    | .420 @ 109F  |              |  |
| Time Circulation Stopped     | 2 HOURS      |              |  |
| Time Logger on Bottom        | 2:30 P.M.    |              |  |
| Maximum Recorded Temperature | 109F         |              |  |
| Equipment Number             | 860          |              |  |
| Location                     | HAYS, KS.    |              |  |
| Recorded By                  | RUPP         |              |  |
| Witnessed By                 | JEFF LAWLER  | BRIAN KARLIN |  |

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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

SUPERIOR WELL SERVICES  
785-628-6395  
THANK YOU FOR YOUR BUSINESS  
DIRECTIONS: HOISINGTON DAIRY QUEEN, 2E, 2 1/2N, E INTO.

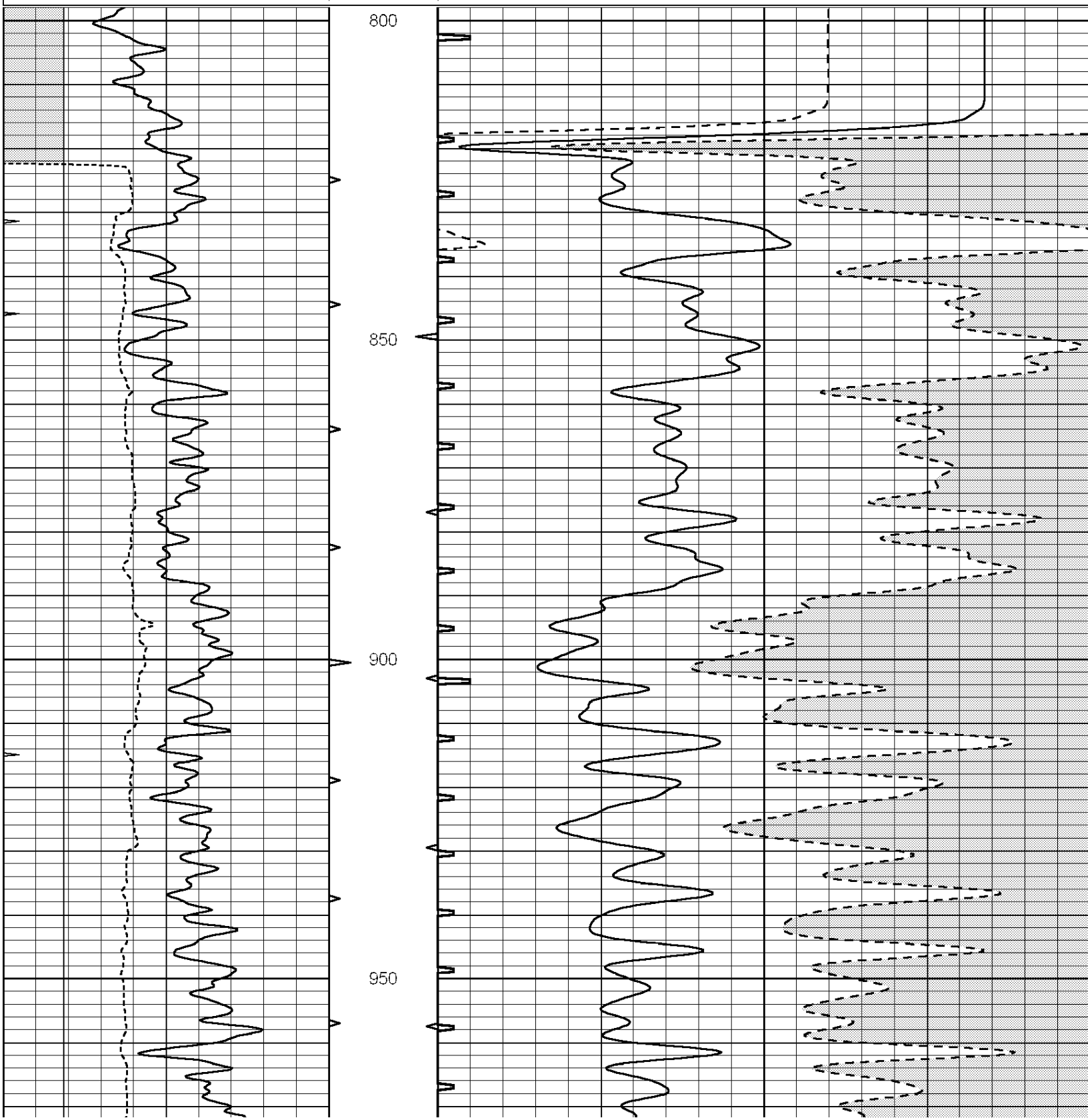


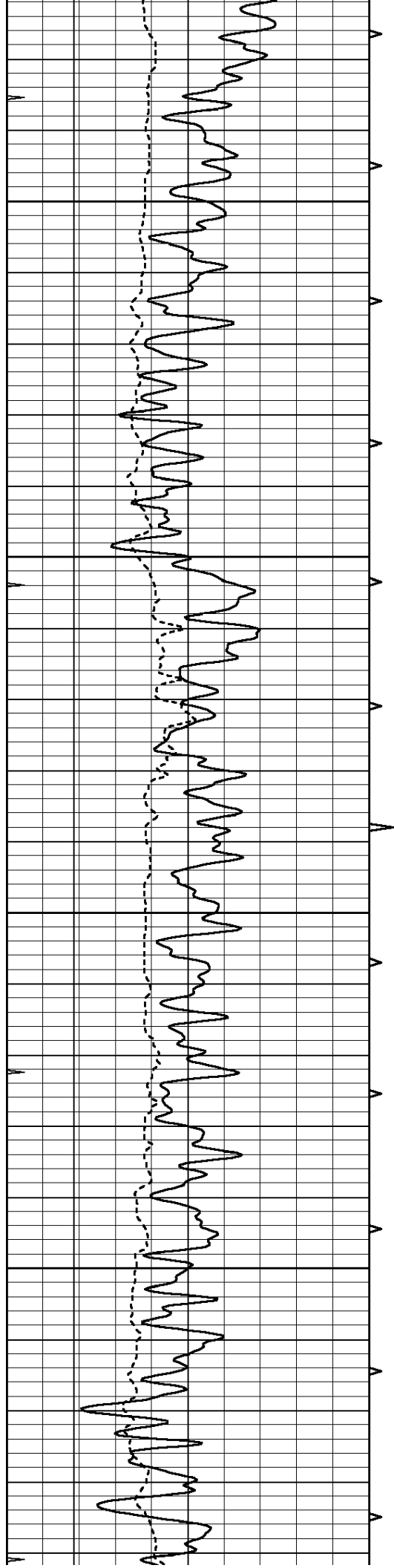
**SUPERIOR**  
**Hays,**  
**Kansas**

**MAIN SECTION**

Database File: 001214ddn.db  
 Dataset Pathname: pass5.1  
 Presentation Format: slt  
 Dataset Creation: Tue Dec 13 18:36:50 2011 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

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



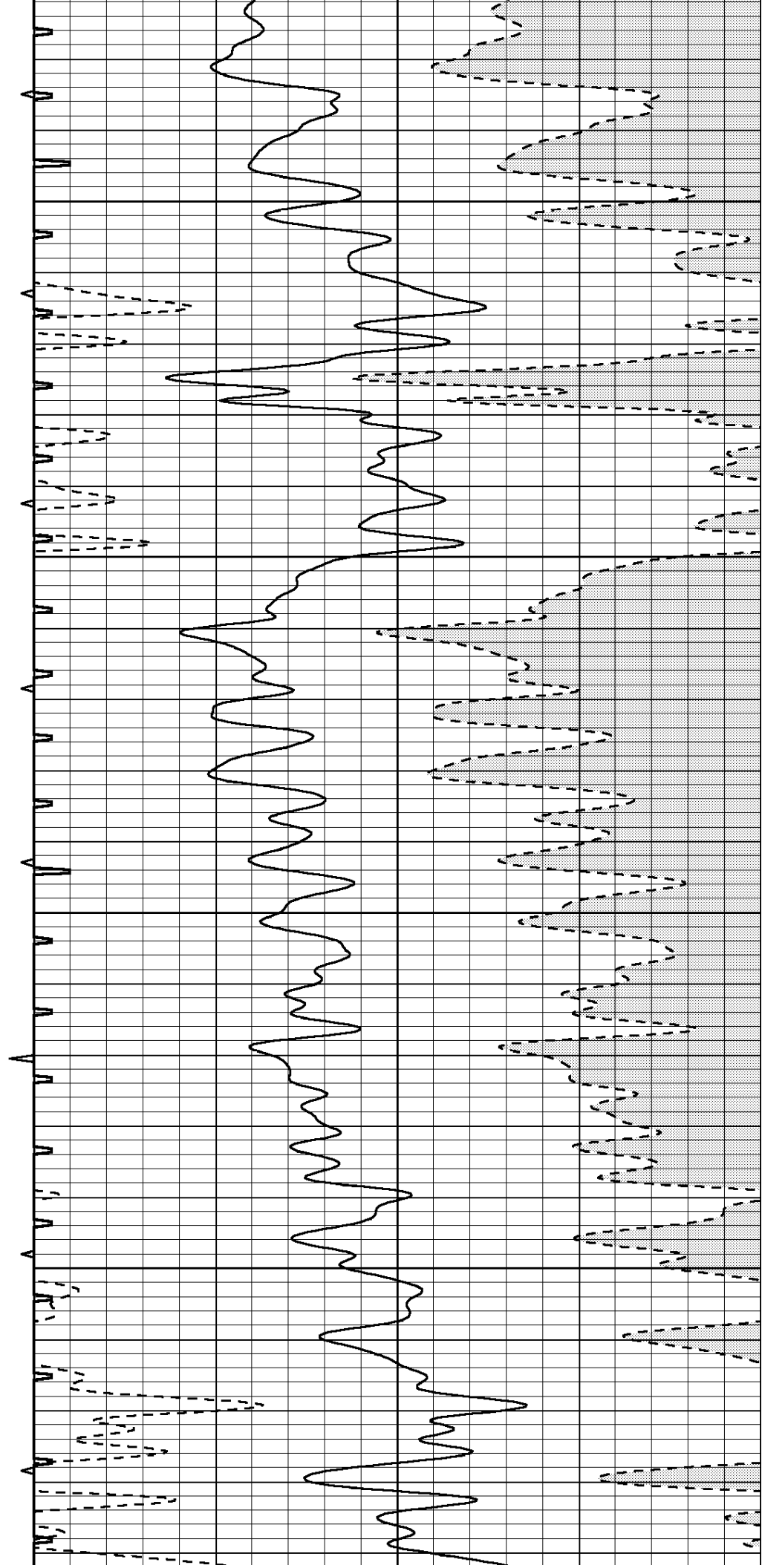


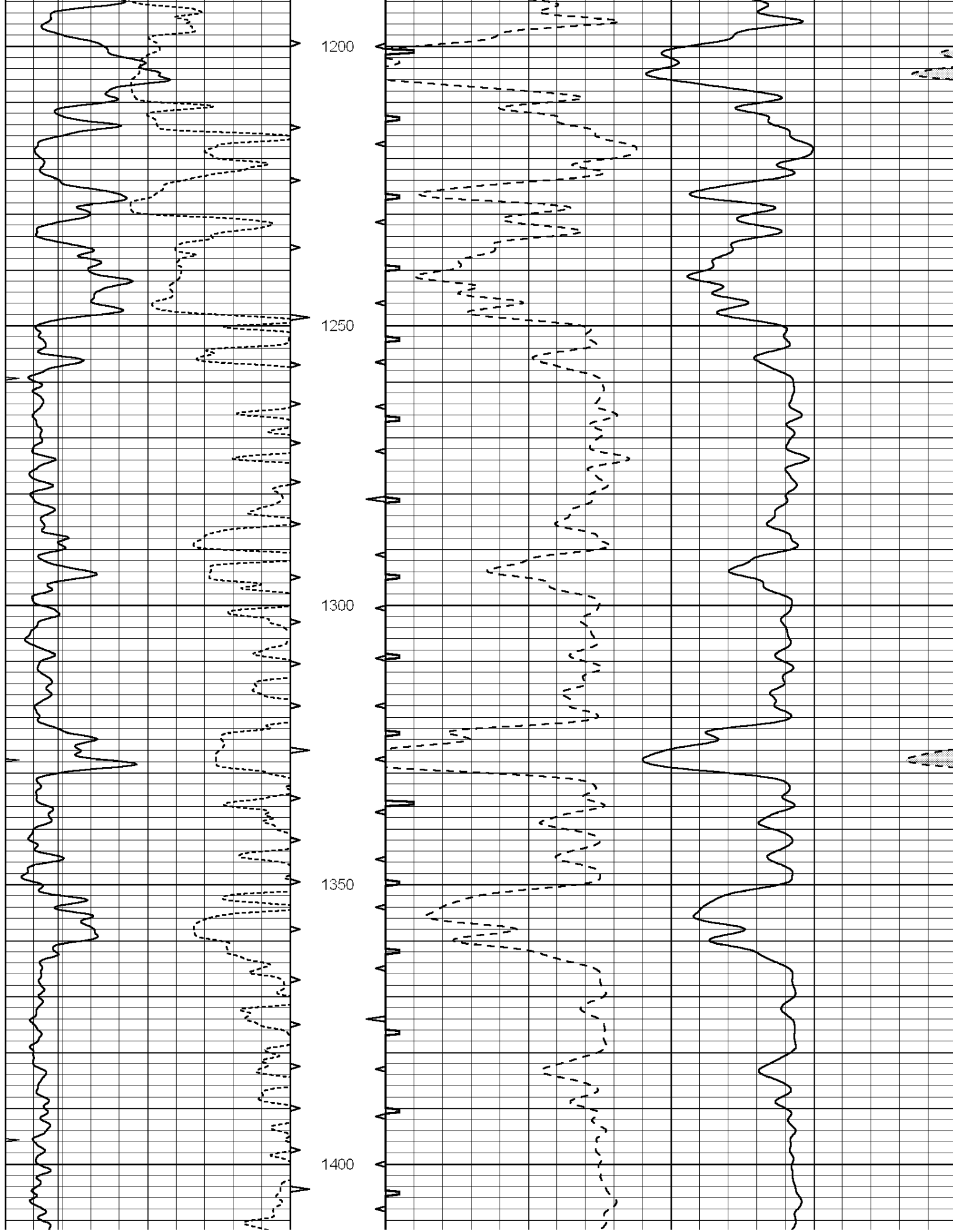
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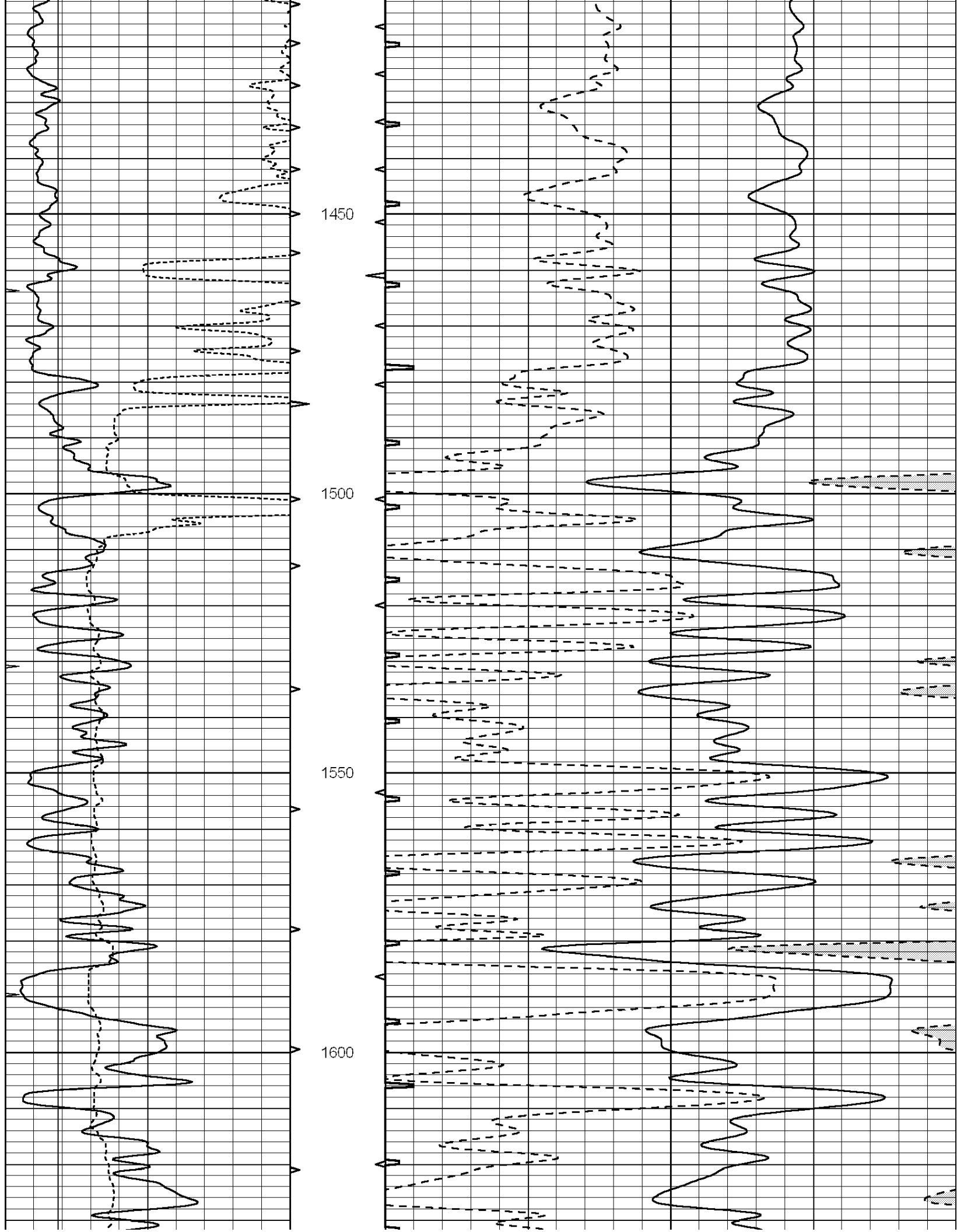
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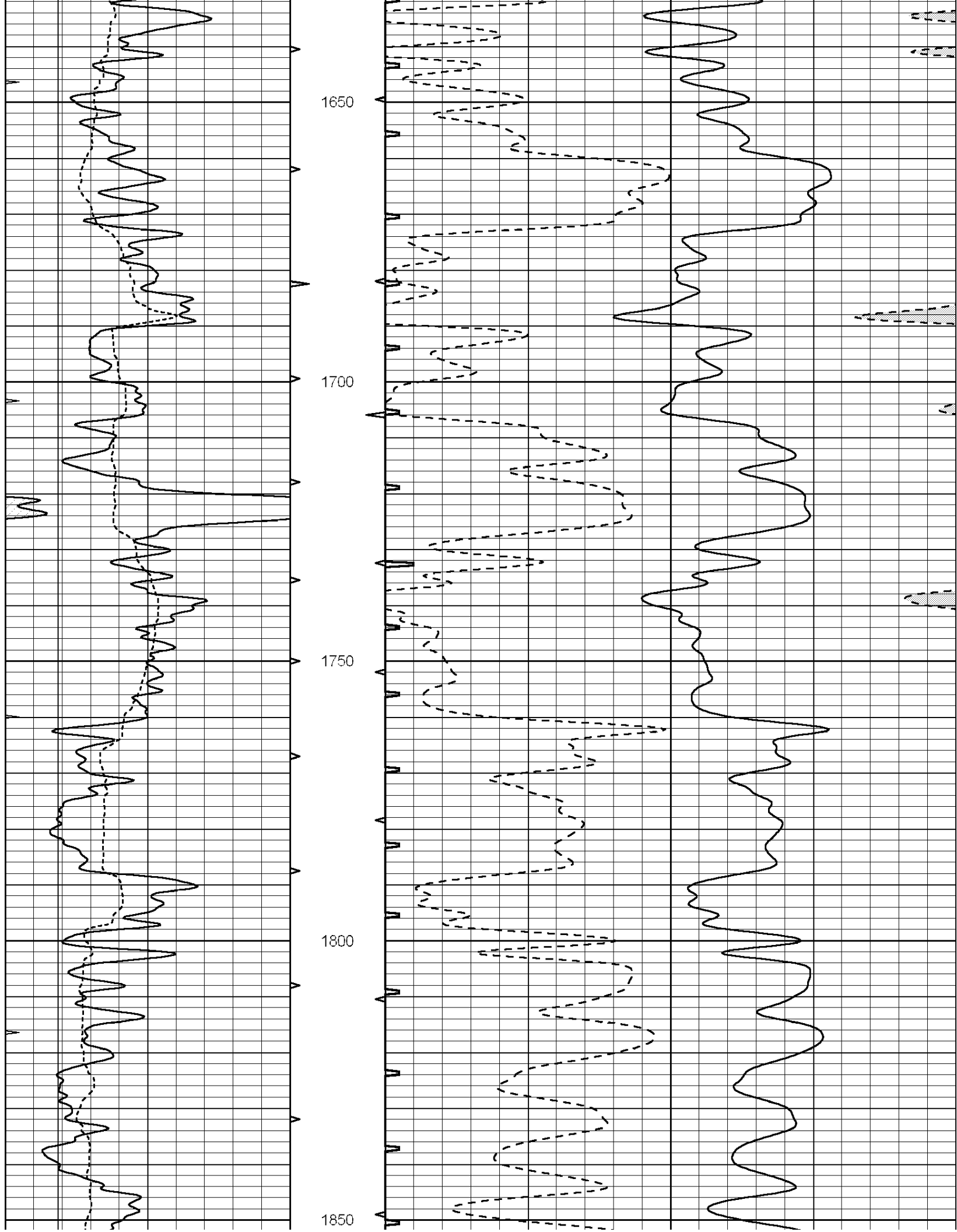
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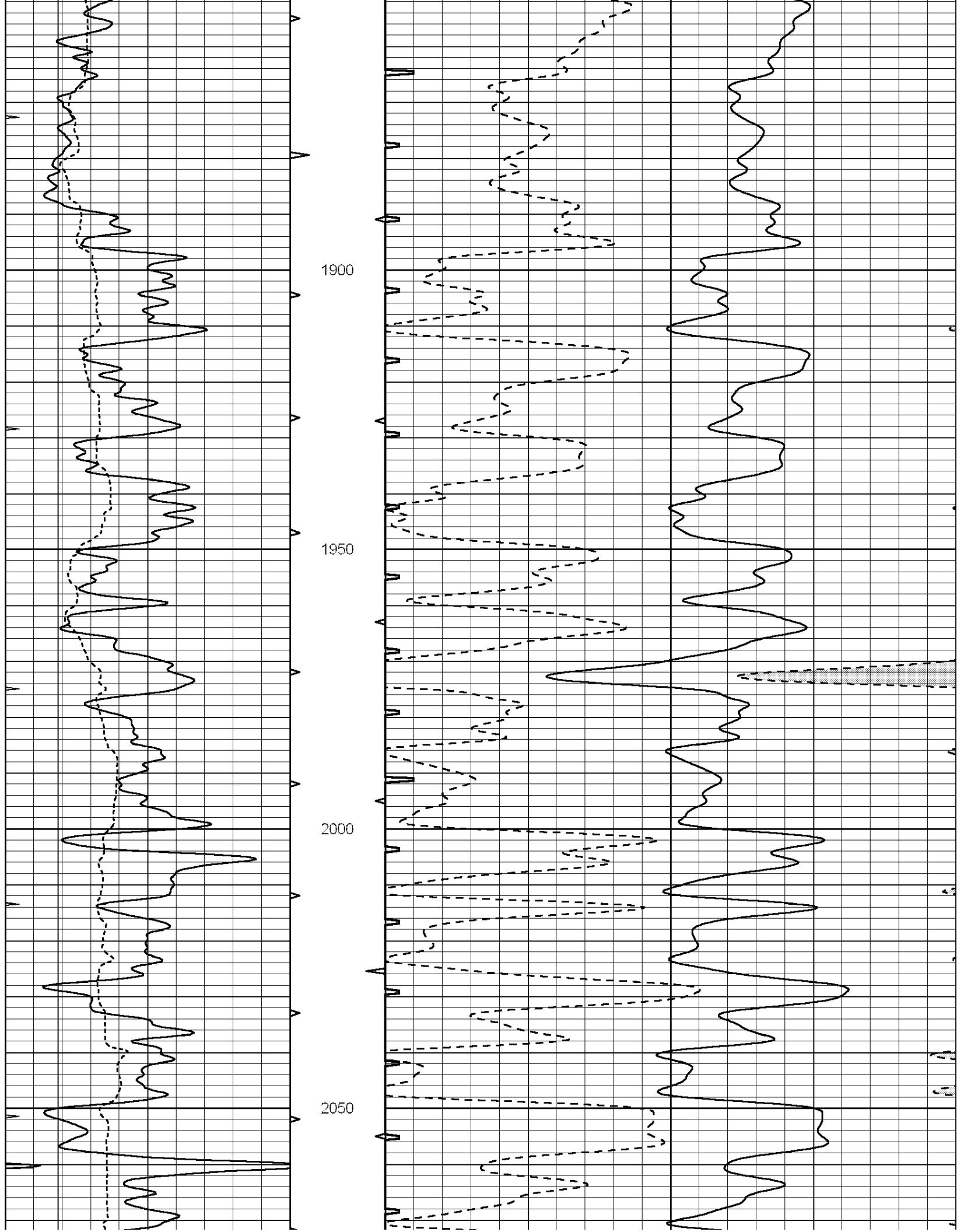
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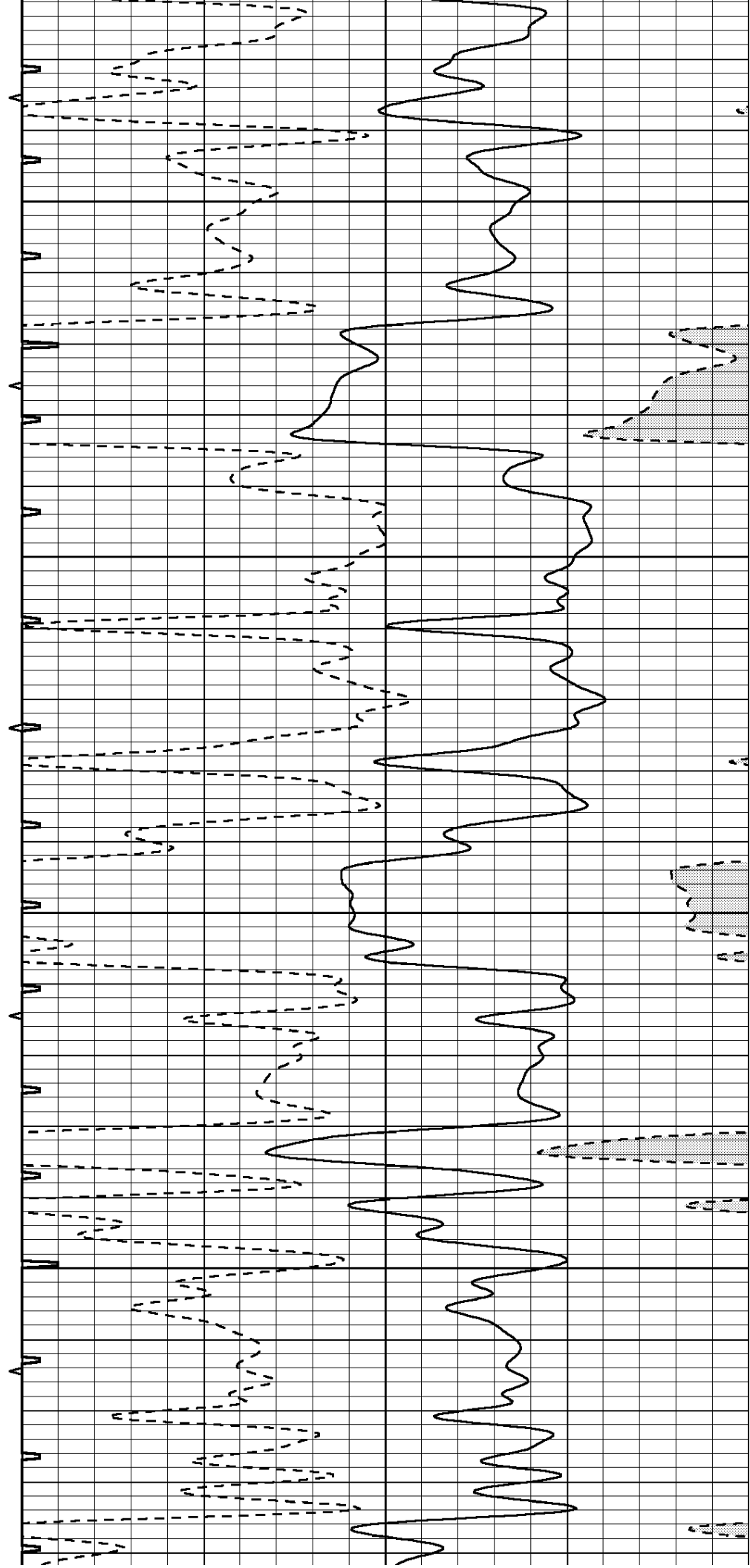
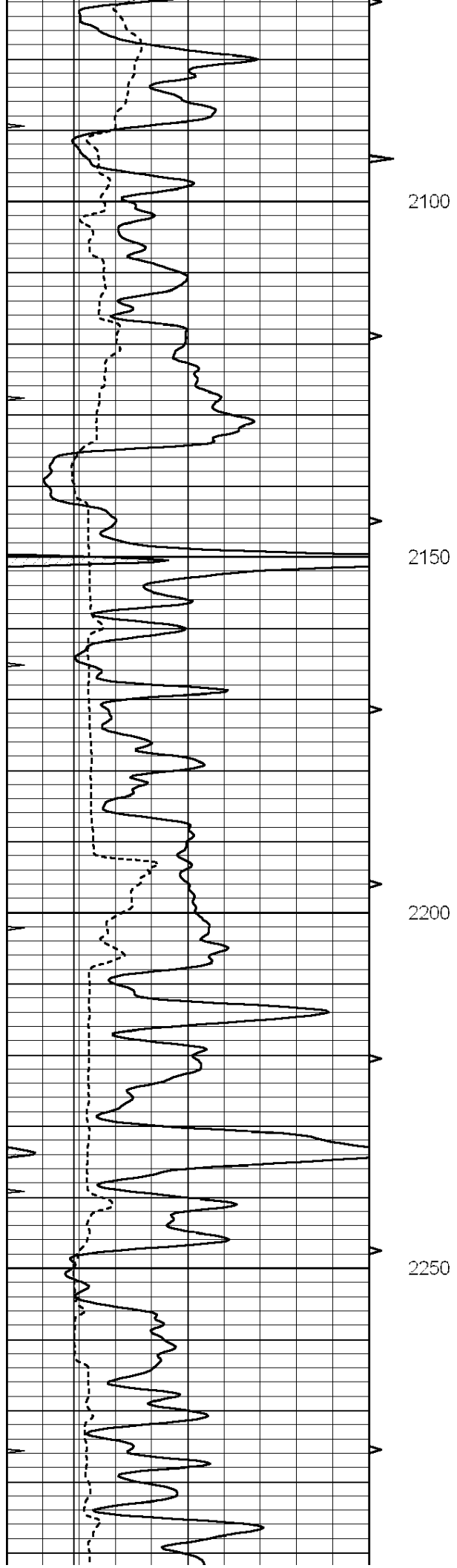




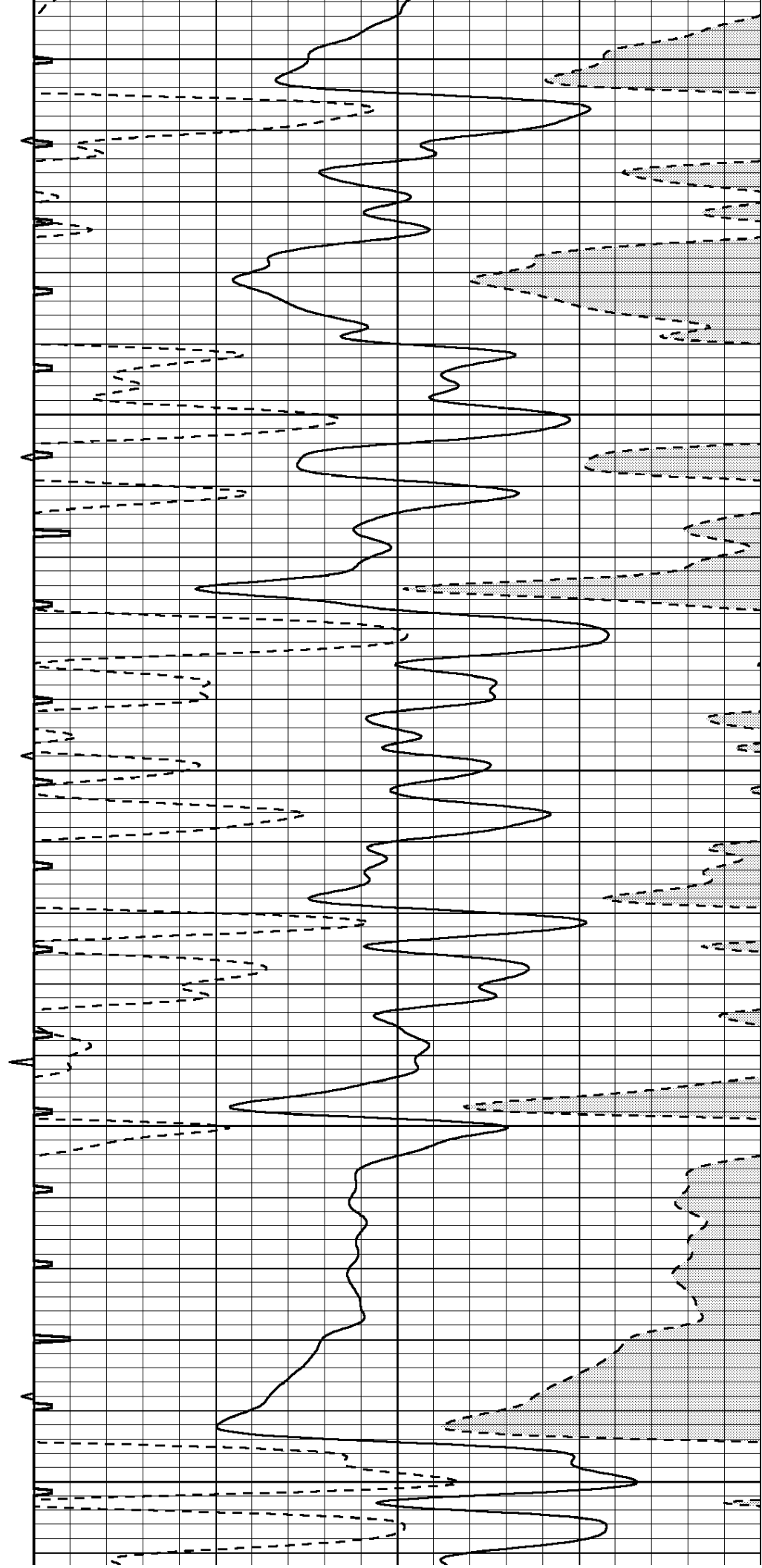
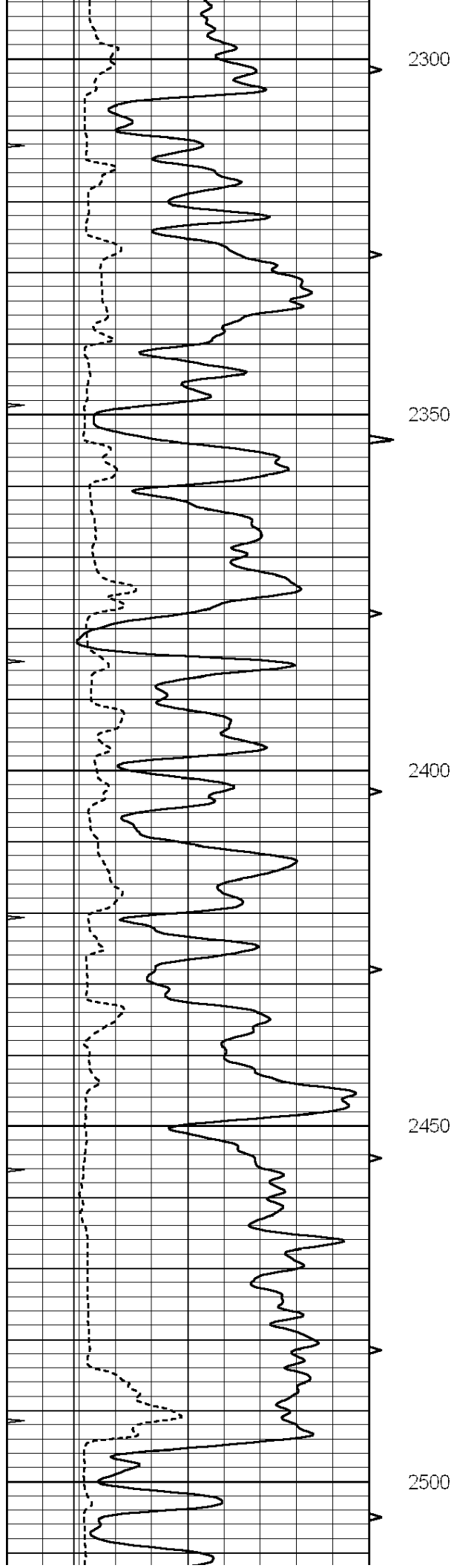


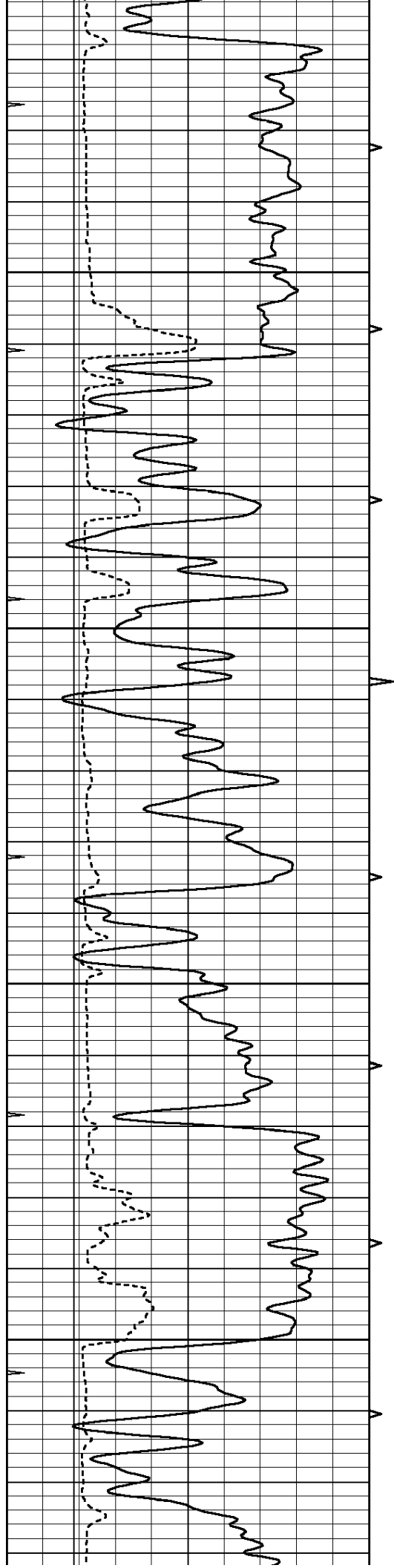










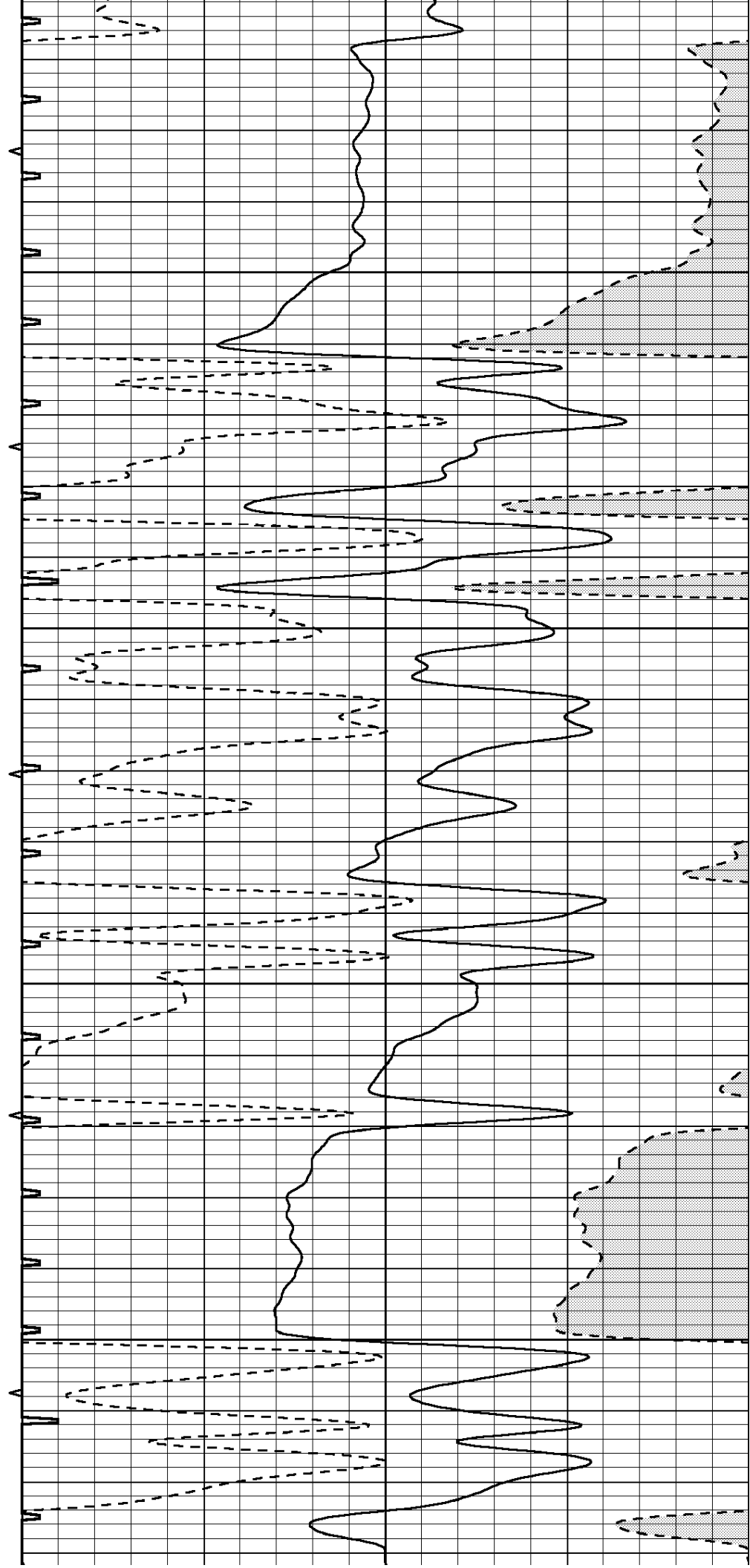


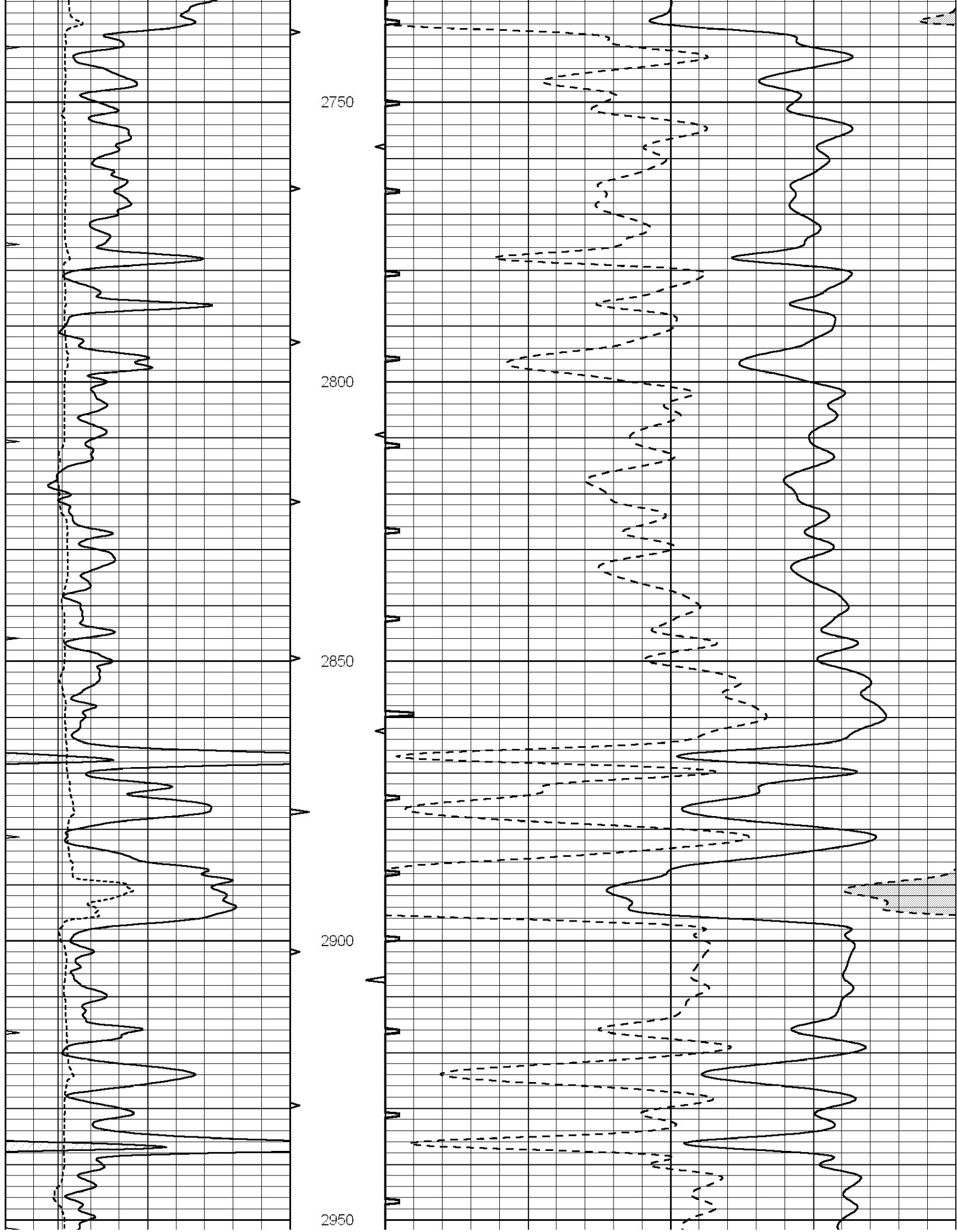
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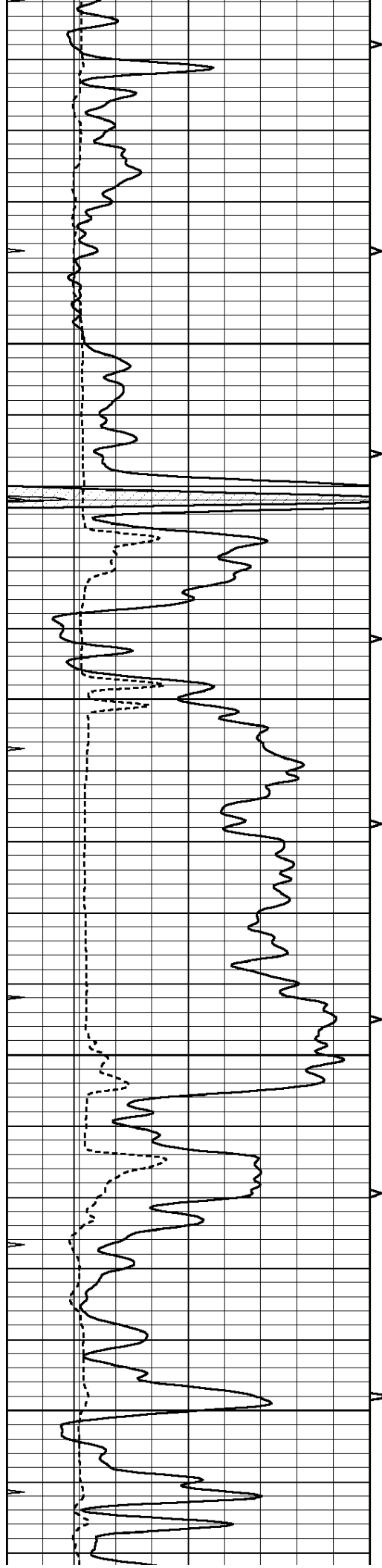
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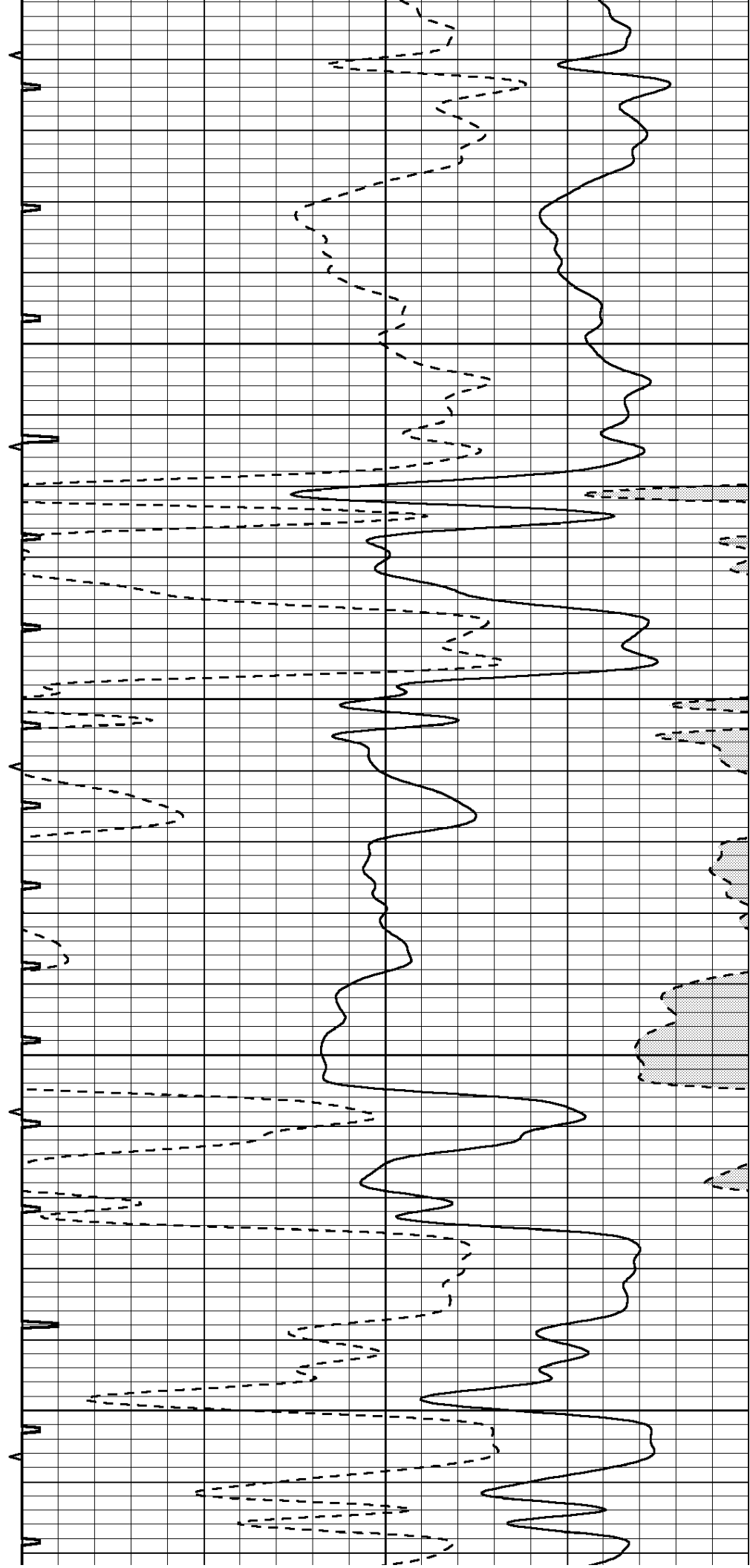


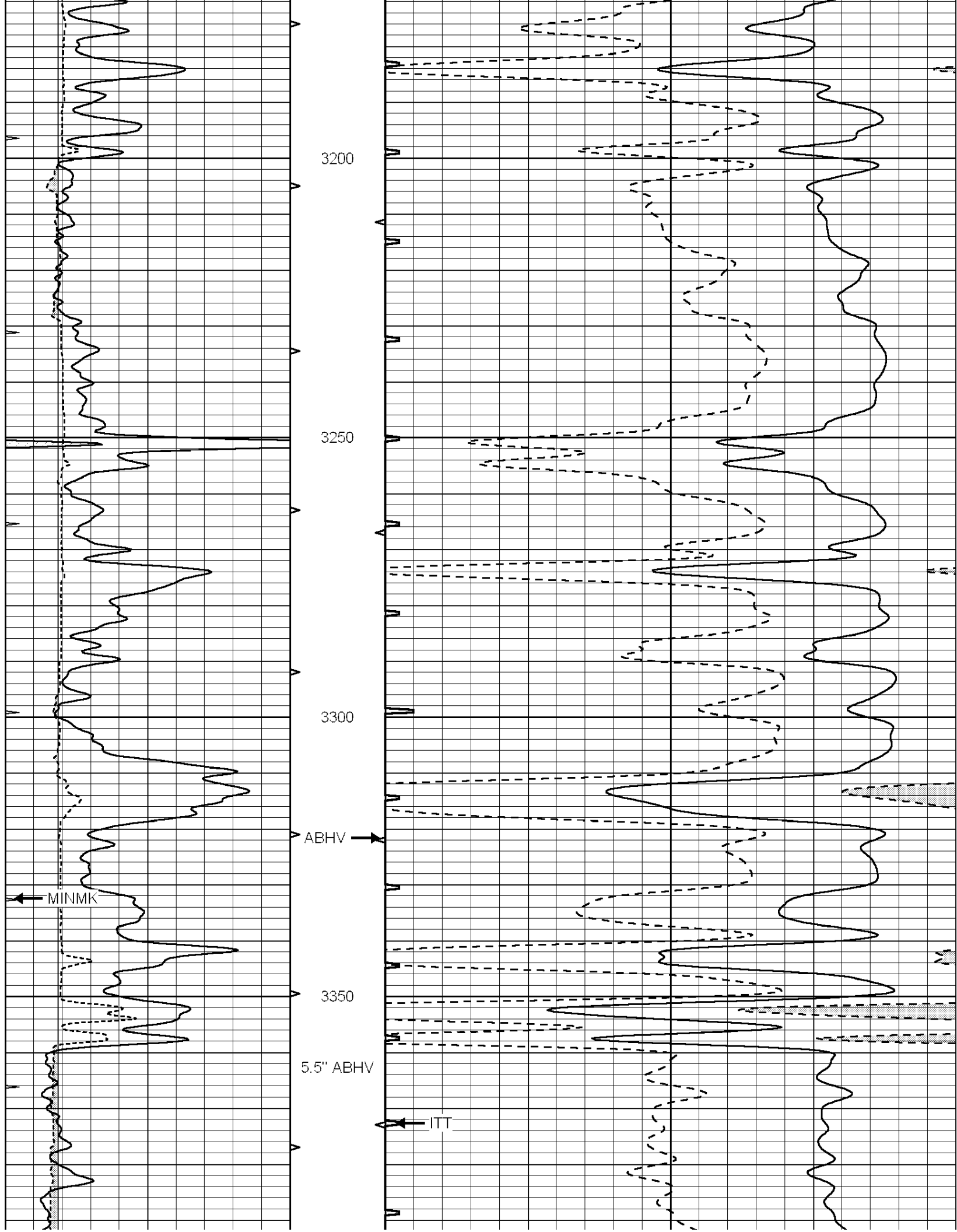
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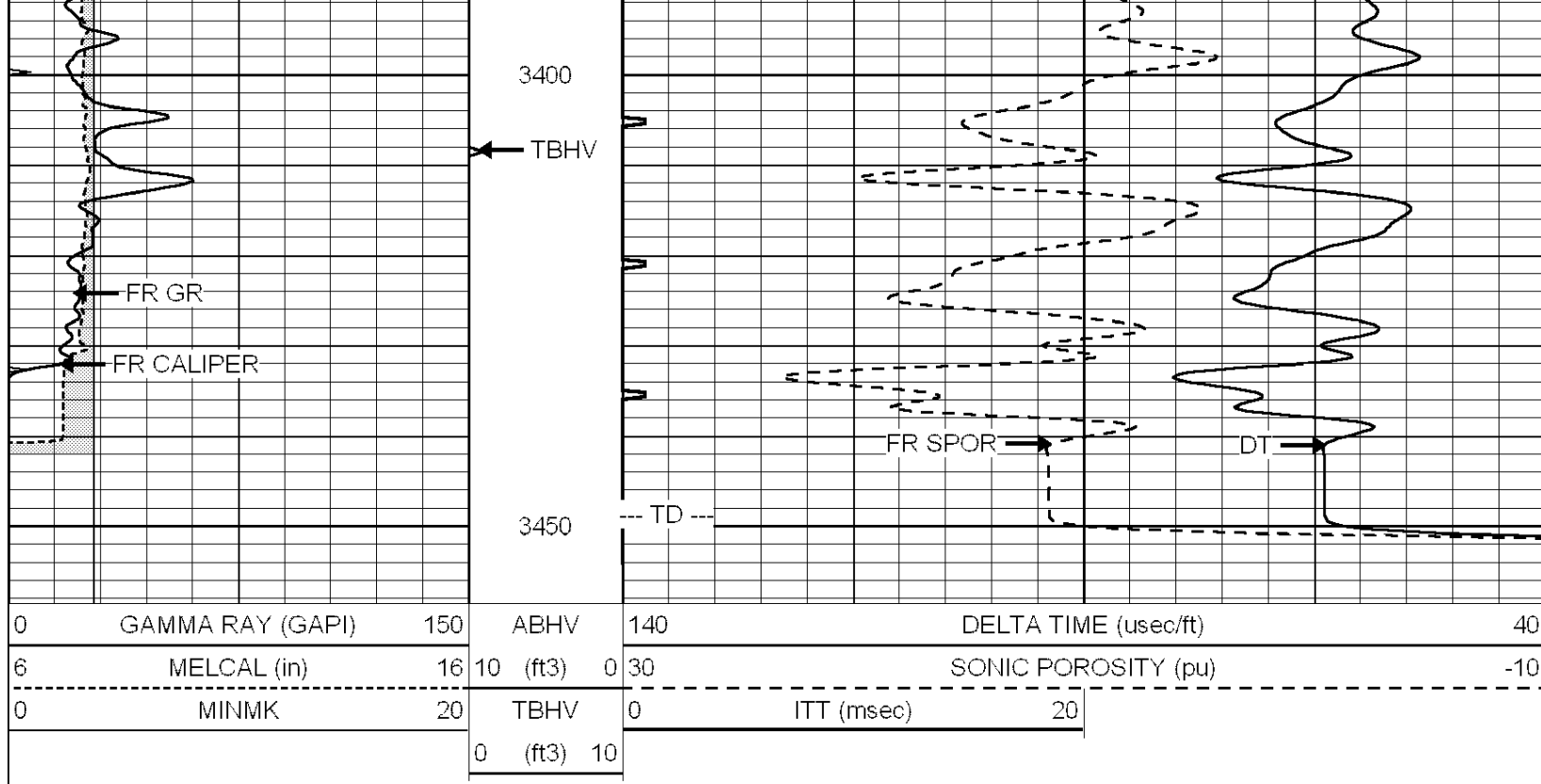
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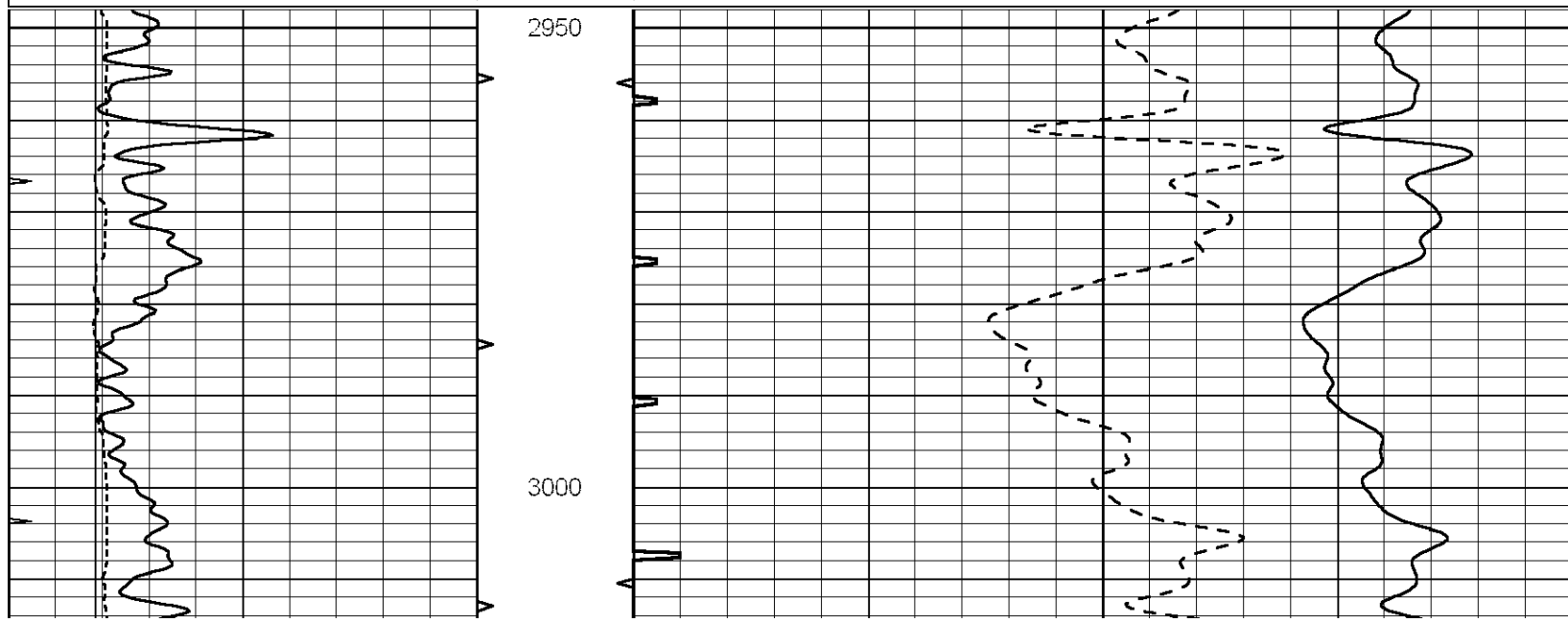
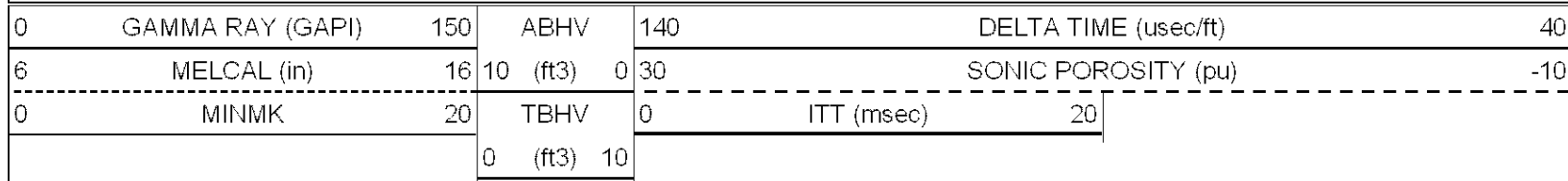


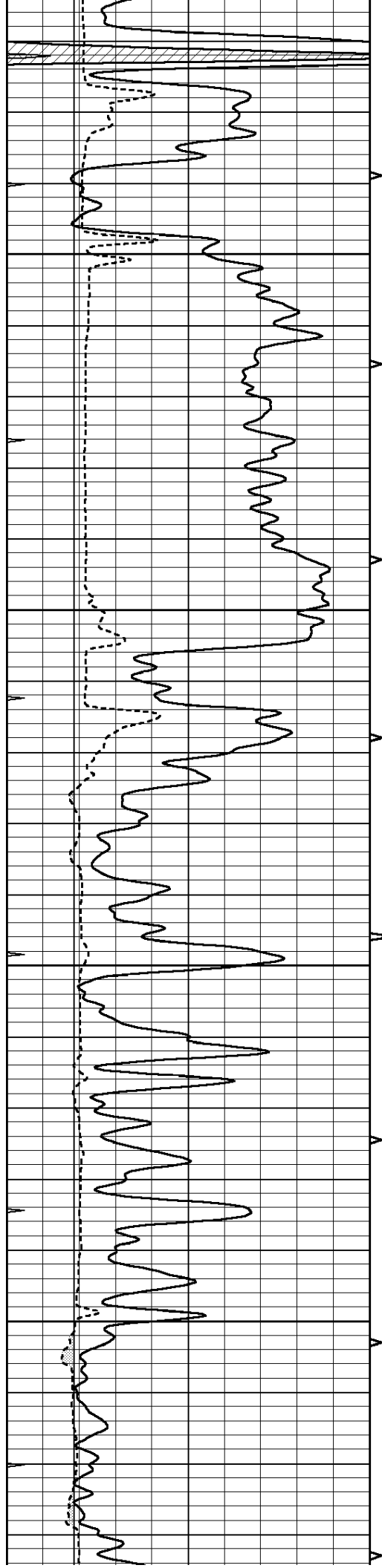


SUPERIOR  
Hays,  
Kansas

# REPEAT SECTION

Database File: 001214ddn.db  
 Dataset Pathname: pass4.1  
 Presentation Format: slt  
 Dataset Creation: Tue Dec 13 17:30:36 2011 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240



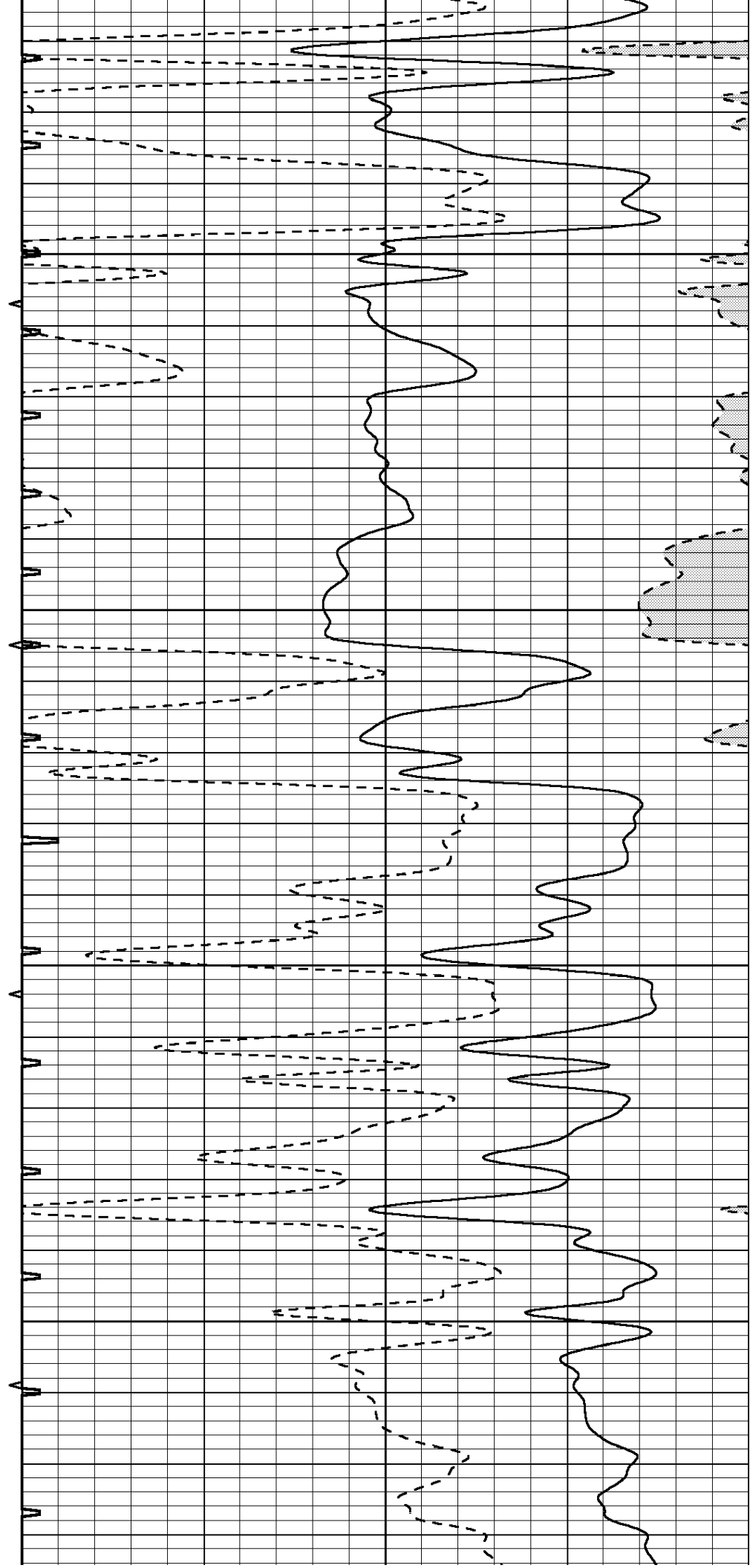


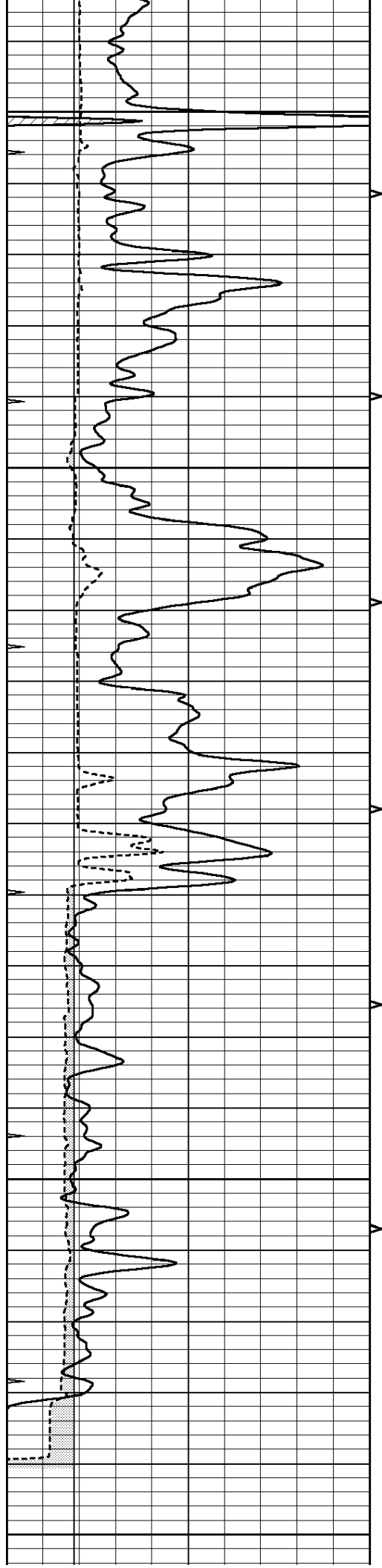
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3150

3200





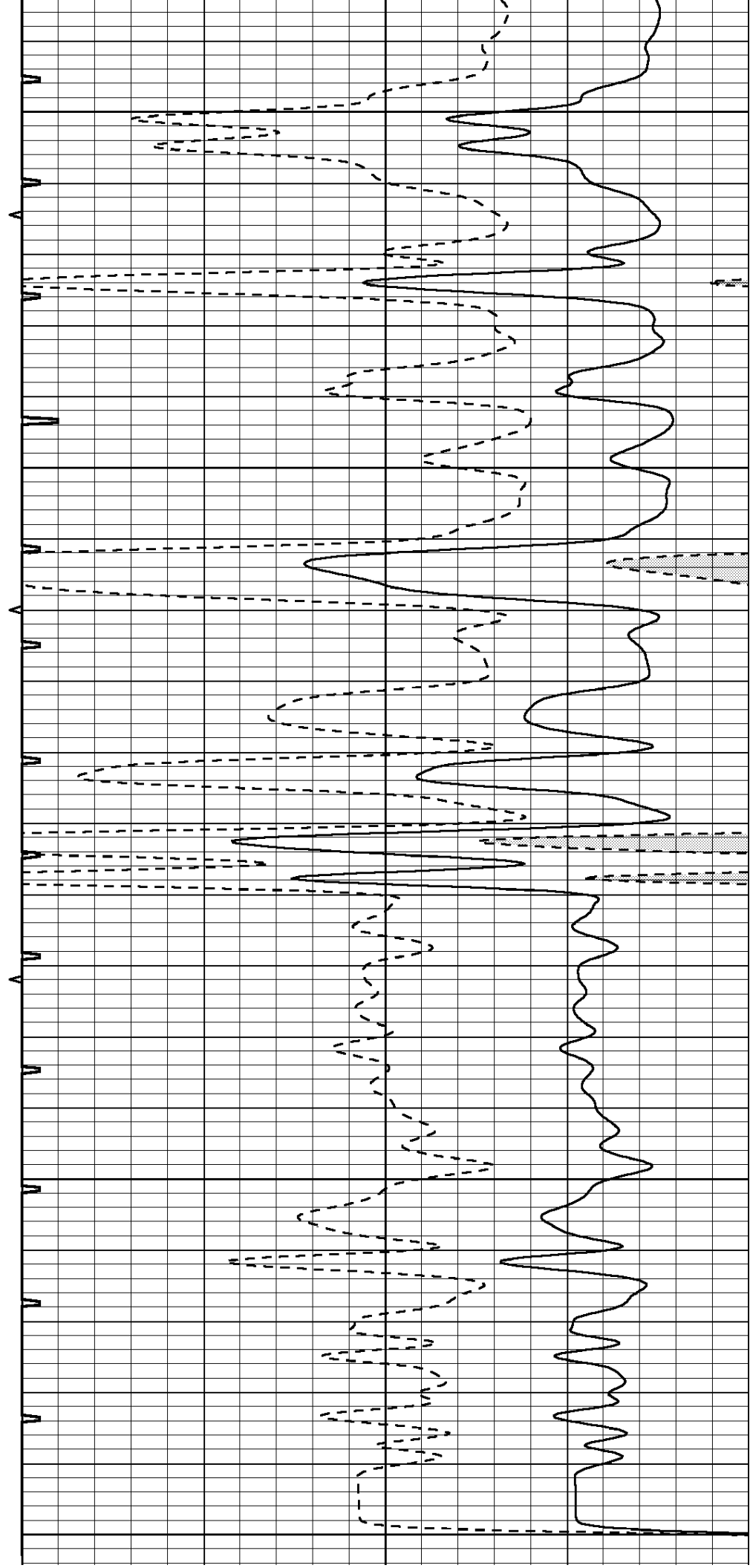
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3300

3350

3400

3450





|   |                  |     |            |     |                      |     |
|---|------------------|-----|------------|-----|----------------------|-----|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV       | 140 | DELTA TIME (usec/ft) | 40  |
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