



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

**SONIC**  
**LOG**

Company SHELBY RESOURCES, LLC  
Well CLARK #4-24  
Field SANFORD  
County BARTON State KANSAS

Location: API # : 15-009-25486-0000

1836' FSL & 330' FWL

SEC 24 TWP 17S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1916  
Log Measured From KELLY BUSHING 11' A.G.L.  
Drilling Measured From KELLY BUSHING

Other Services  
CDL/CNL  
DIL/MEL

Elevation

K.B. 1927  
D.F. 1925  
G.L. 1916

Date 11-19-10

Run Number TVO

Depth Driller 3500

Depth Logger 3500

Bottom Logged Interval 3493

Top Log Interval 850

Casing Driller 905'

Casing Logger 897'

Bit Size 7.875

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.2 / 56 CHLORIDES 8,100 PPM

pH / Fluid Loss 8.0 / 11.2

Source of Sample FLOWLINE

Rim @ Meas. Temp 0.55 @ 70F

Rmf @ Meas. Temp 0.41 @ 70F

Rmc @ Meas. Temp 0.66 @ 70F

Source of Rmf / Rmc MEASURED

Rim @ BHT 0.34 @ 112F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom

Maximum Recorded Temperature 112F

Equipment Number 860

Location HAYS, KS.

Recorded By JEFF GRONEWEG

Witnessed By CHARLIE STURDAVANT

<<< Fold Here >>>

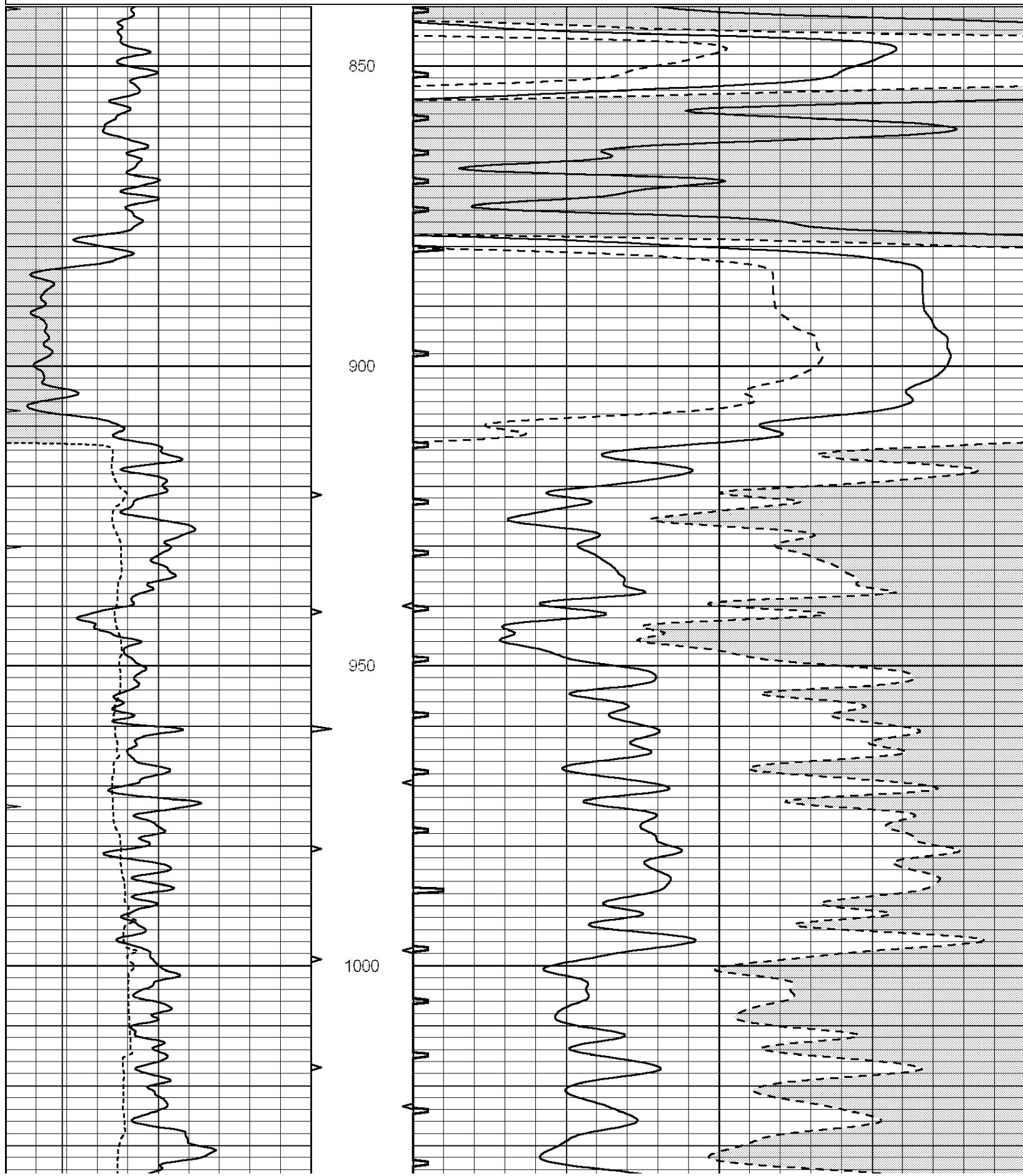
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

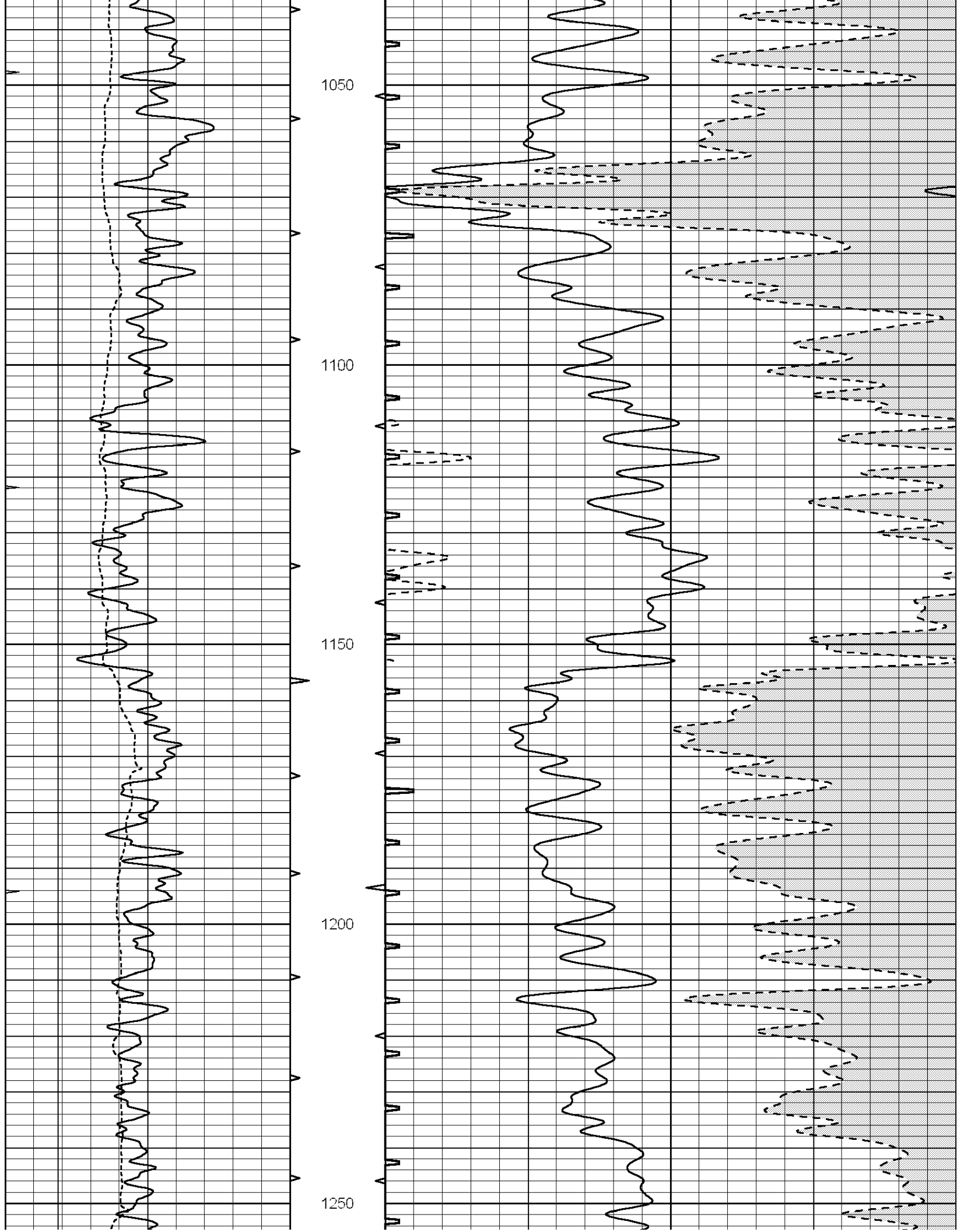
Comments

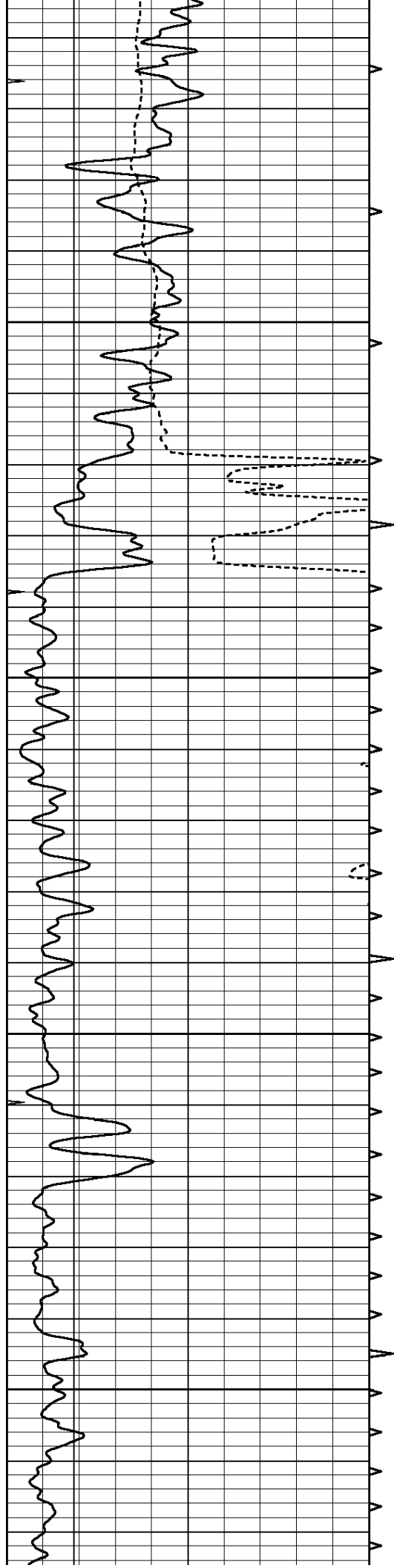
SUPERIOR WELL SERVICES  
785-628-6395  
THANK YOU FOR YOUR BUSINESS  
DIRECTIONS: INTERSECTION OF HWYS 4 & 281 - 1 MILE NORTH - 1 MILE EAST  
1/2 MILE NORTH - EAST INTO

Database File: 005922ddn.db  
Dataset Pathname: pass6.3  
Presentation Format: slt  
Dataset Creation: Fri Nov 19 11:05:47 2010 by Calc Open-Cased 090629

|   |                  |     |            |     |                      |     |
|---|------------------|-----|------------|-----|----------------------|-----|
| 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 |     |                      |     |





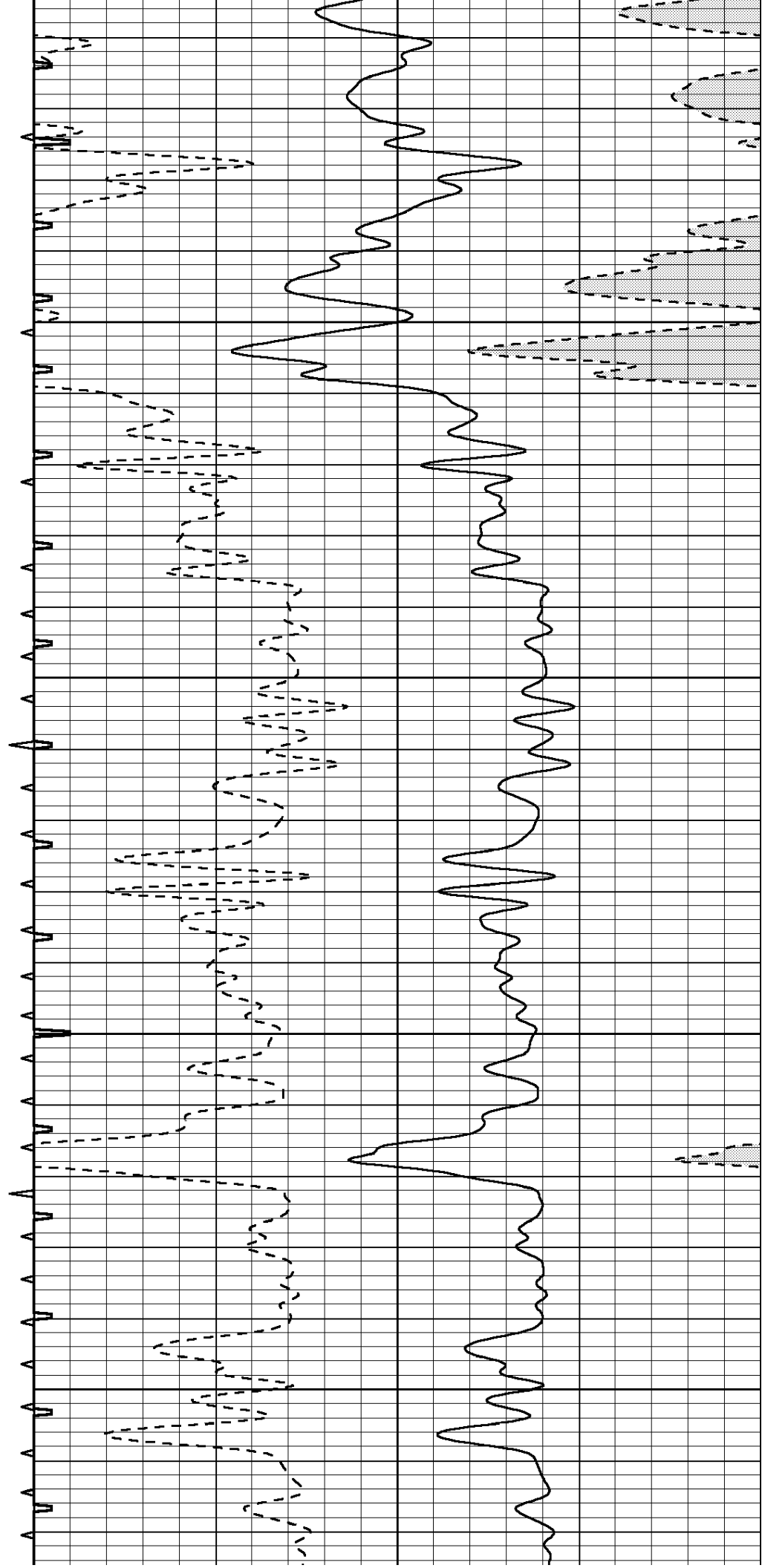


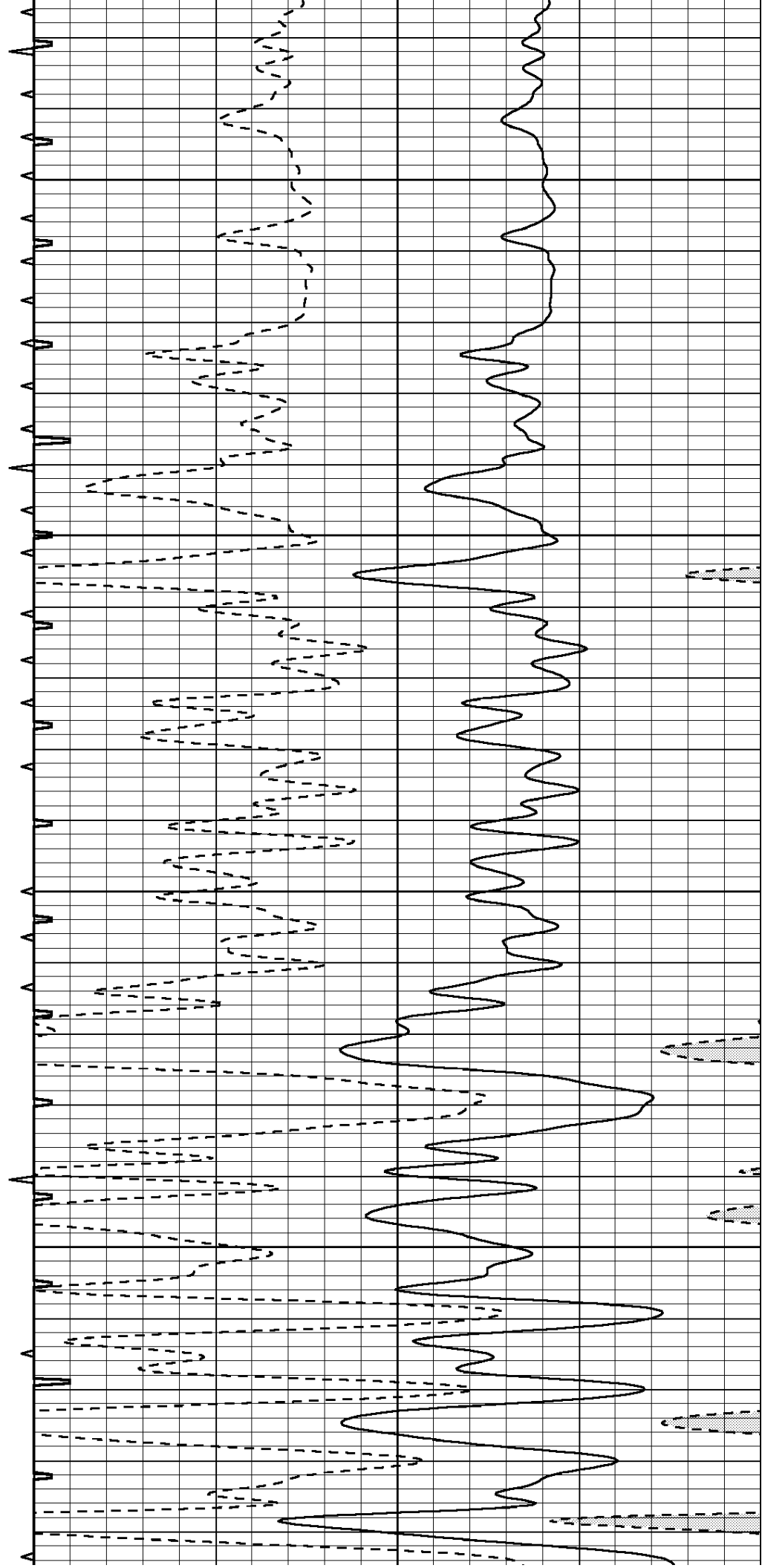
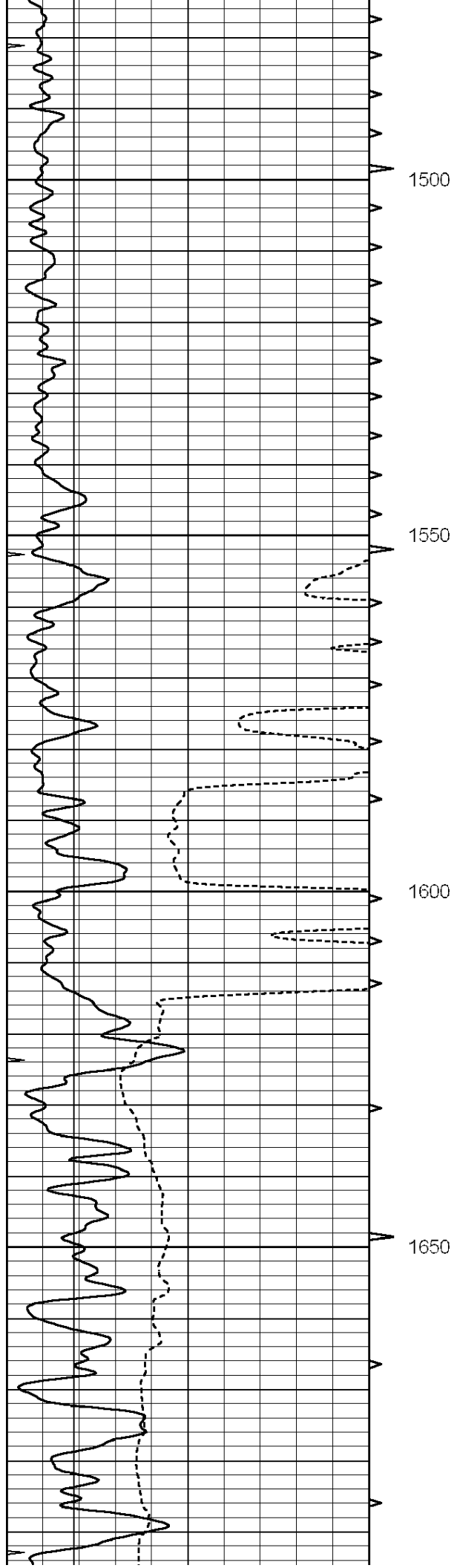
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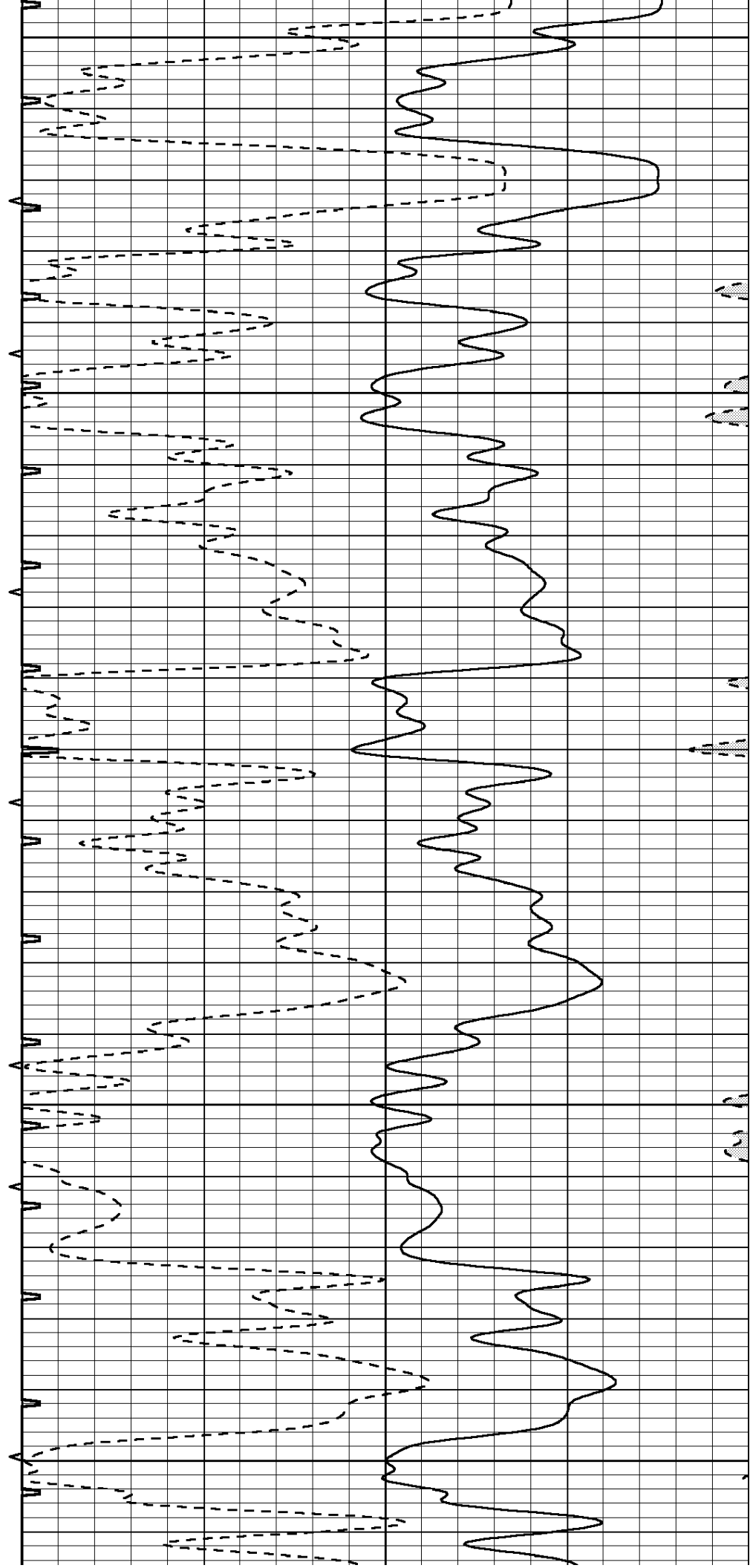
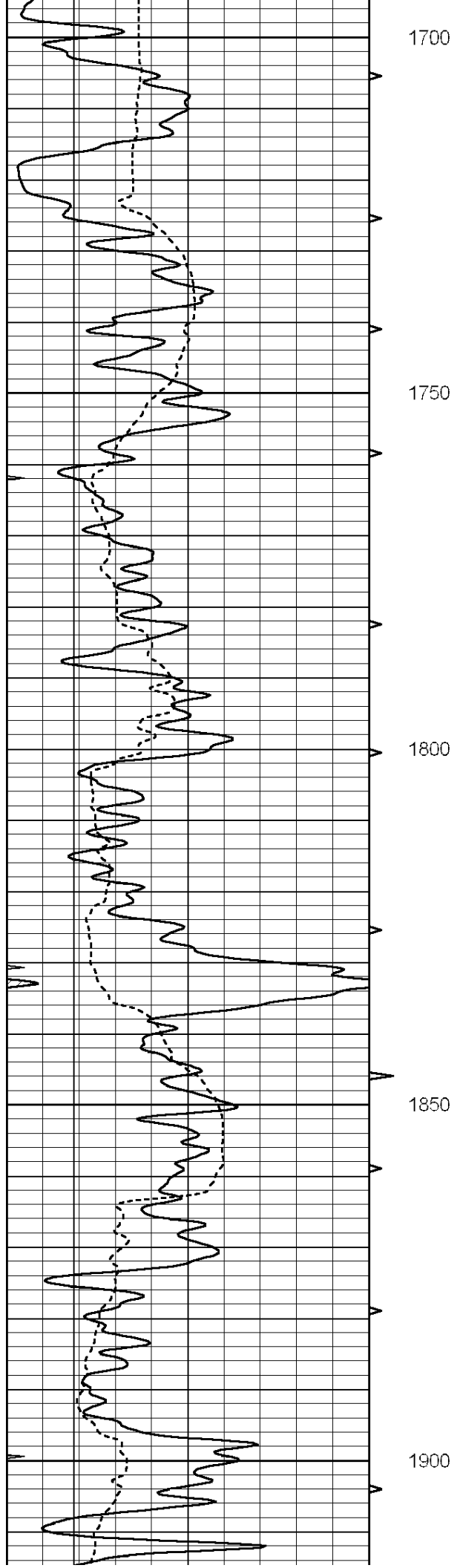
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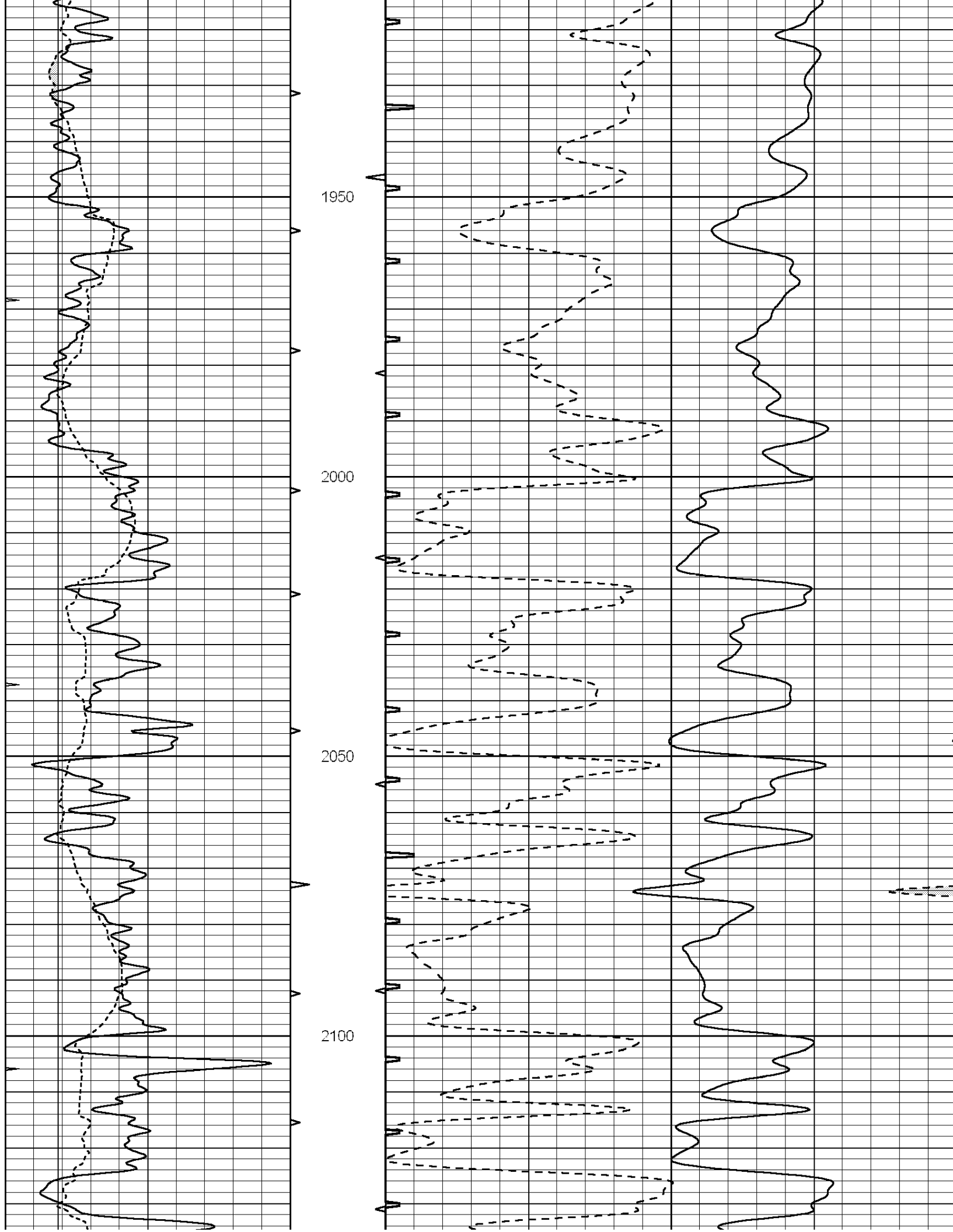
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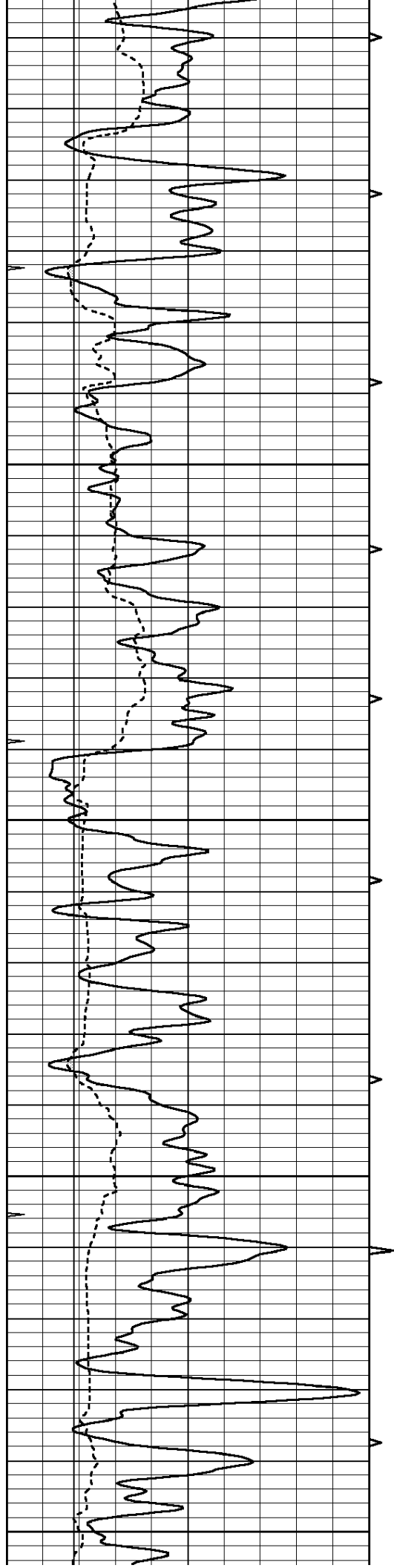
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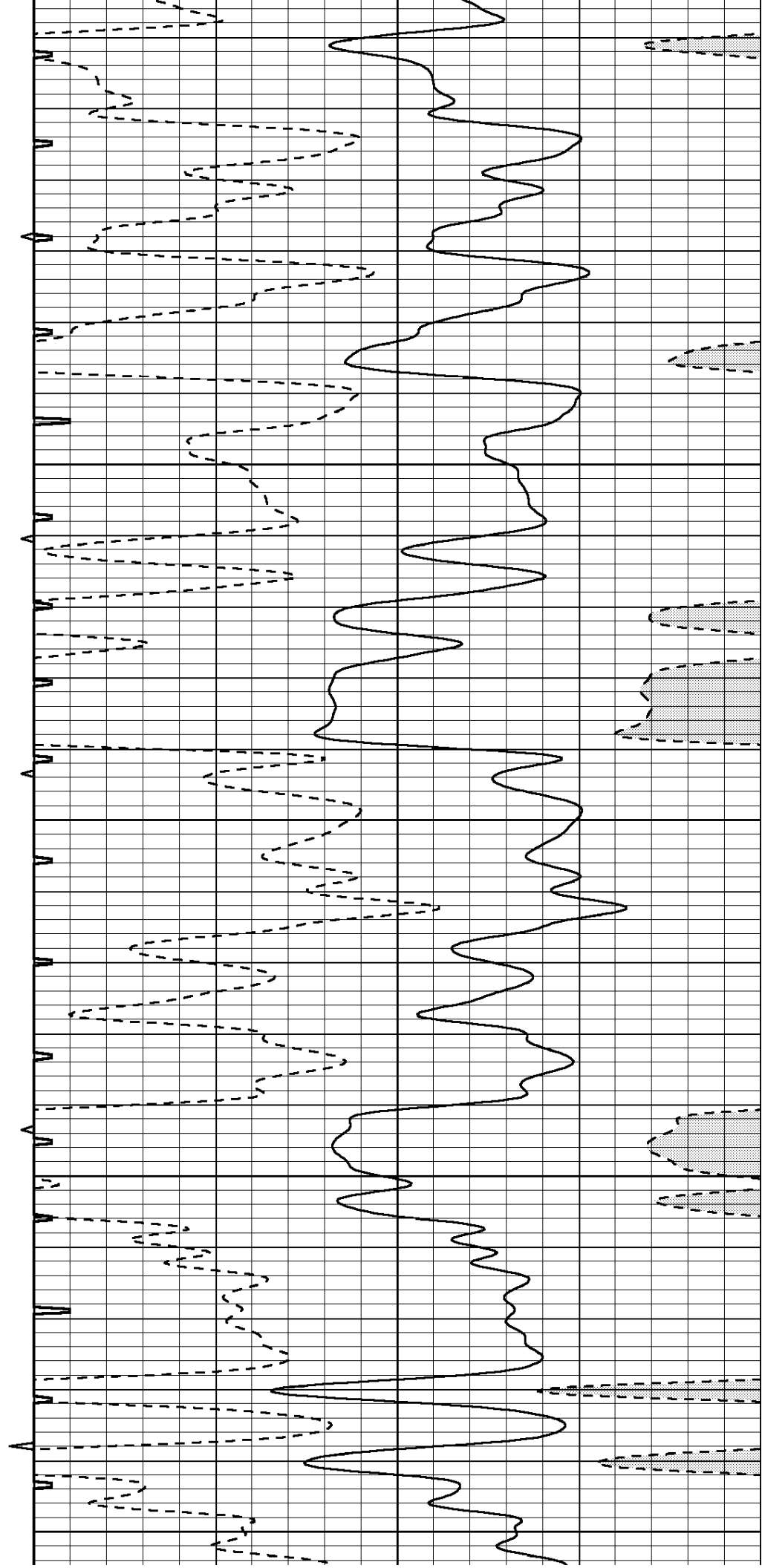
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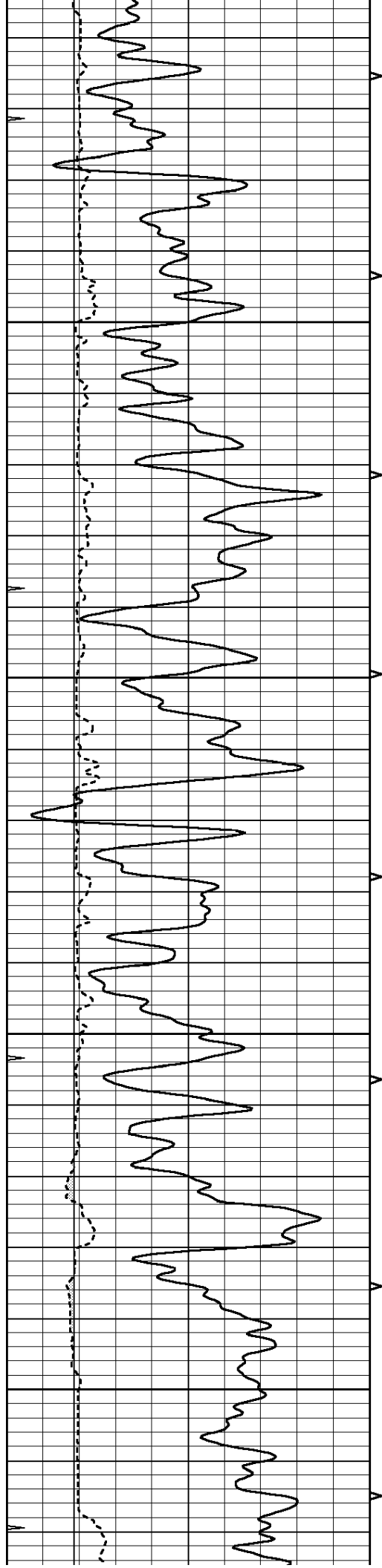
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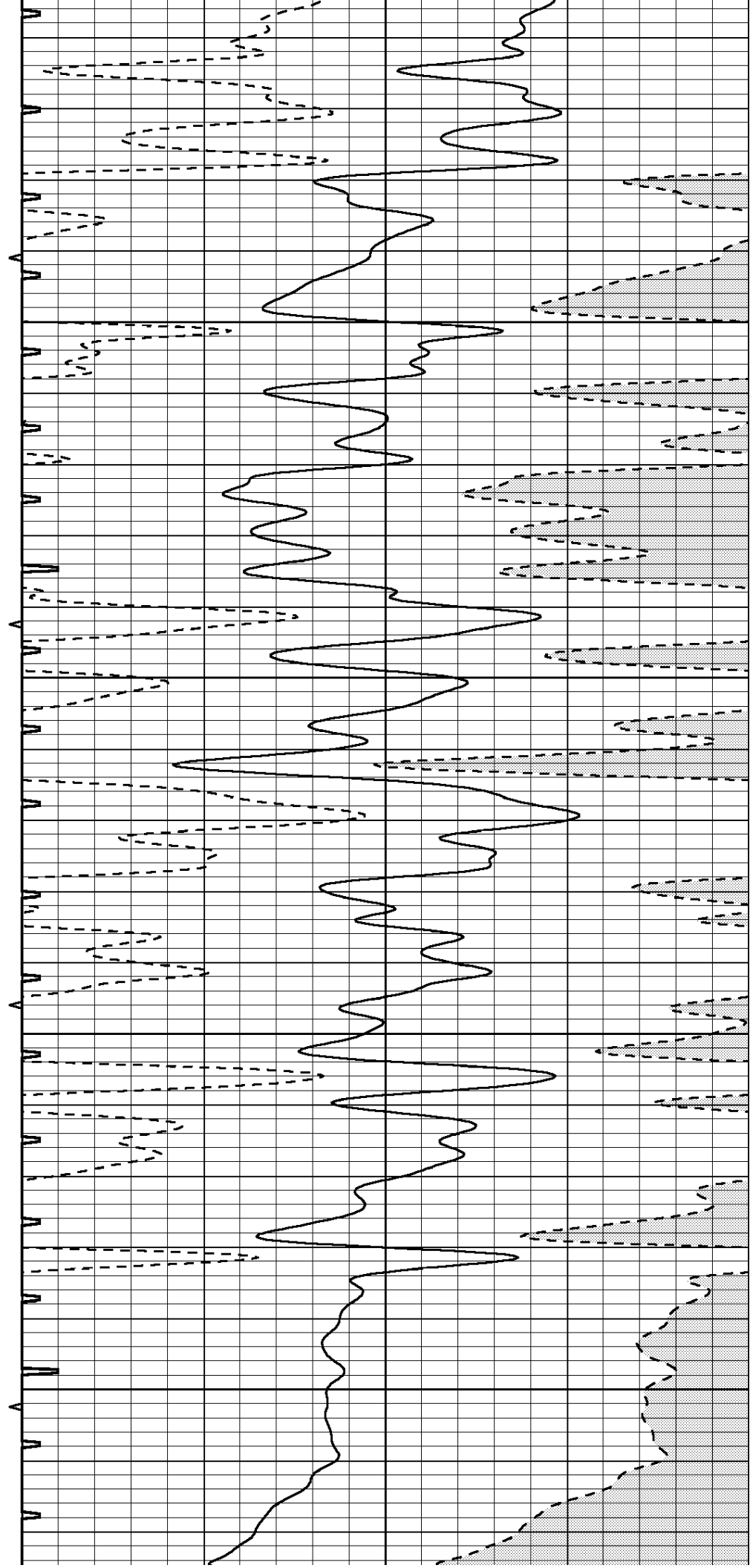


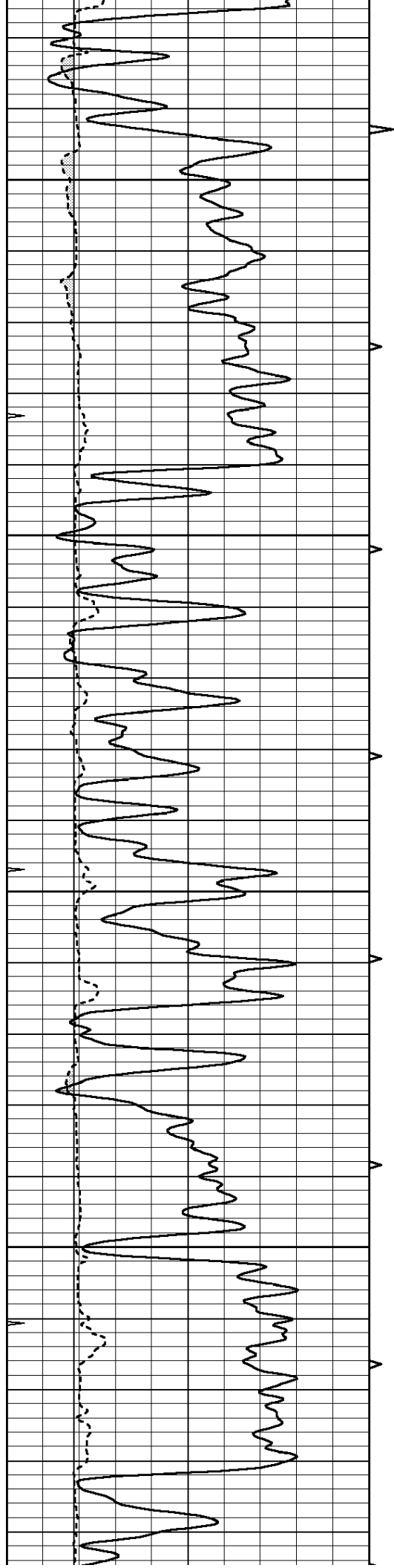
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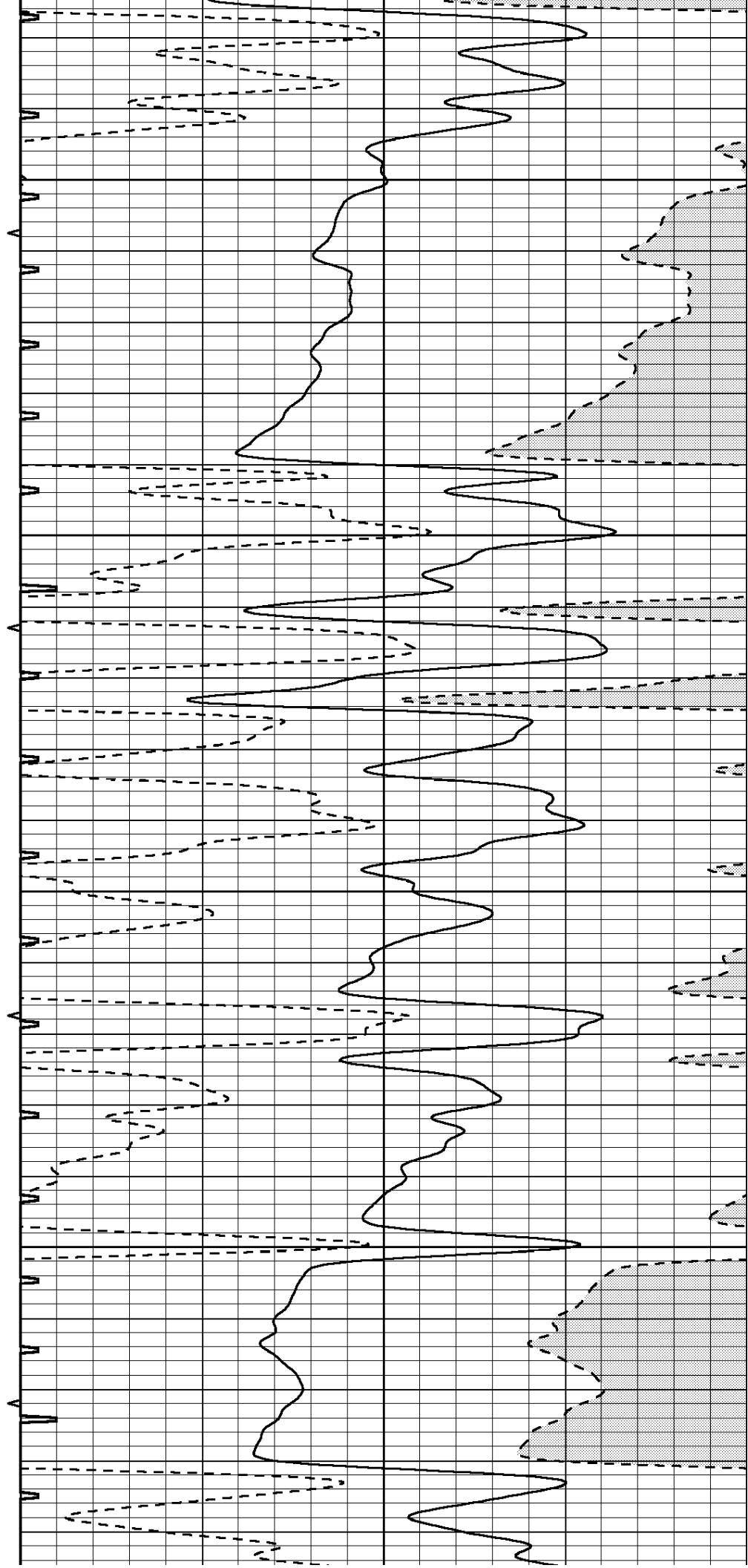


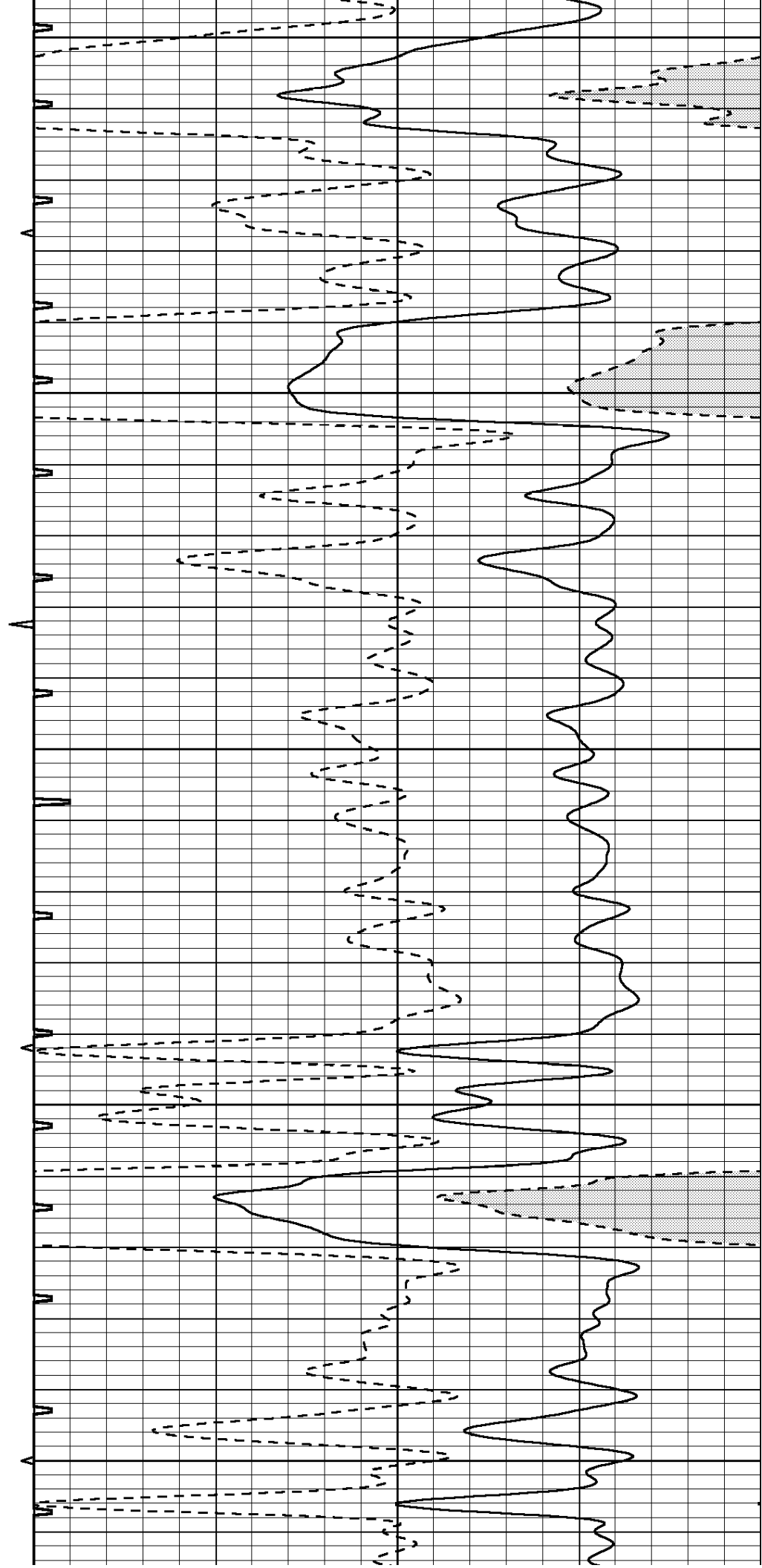
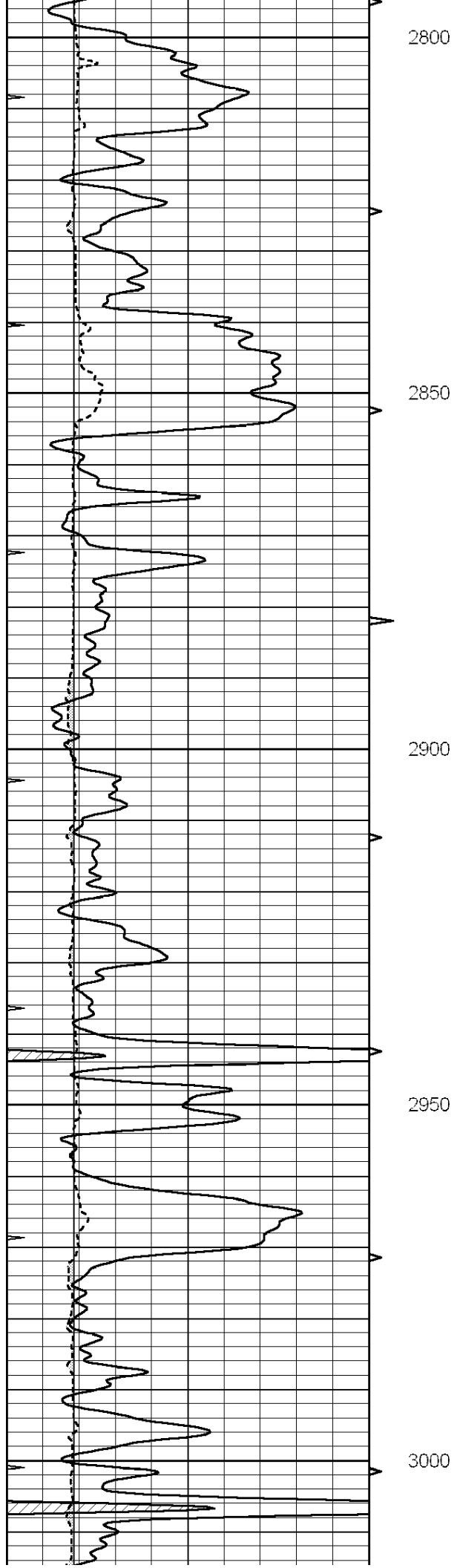
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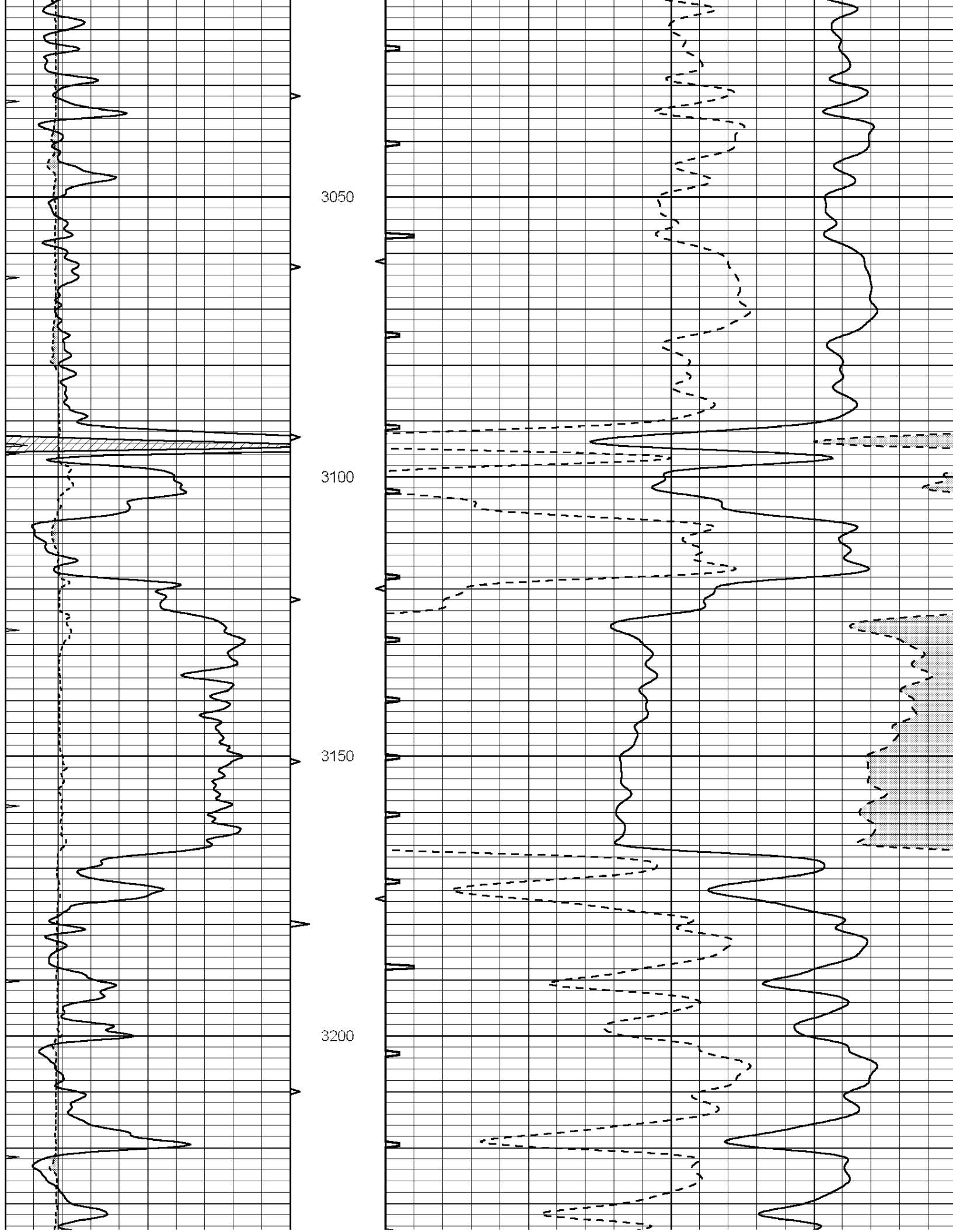
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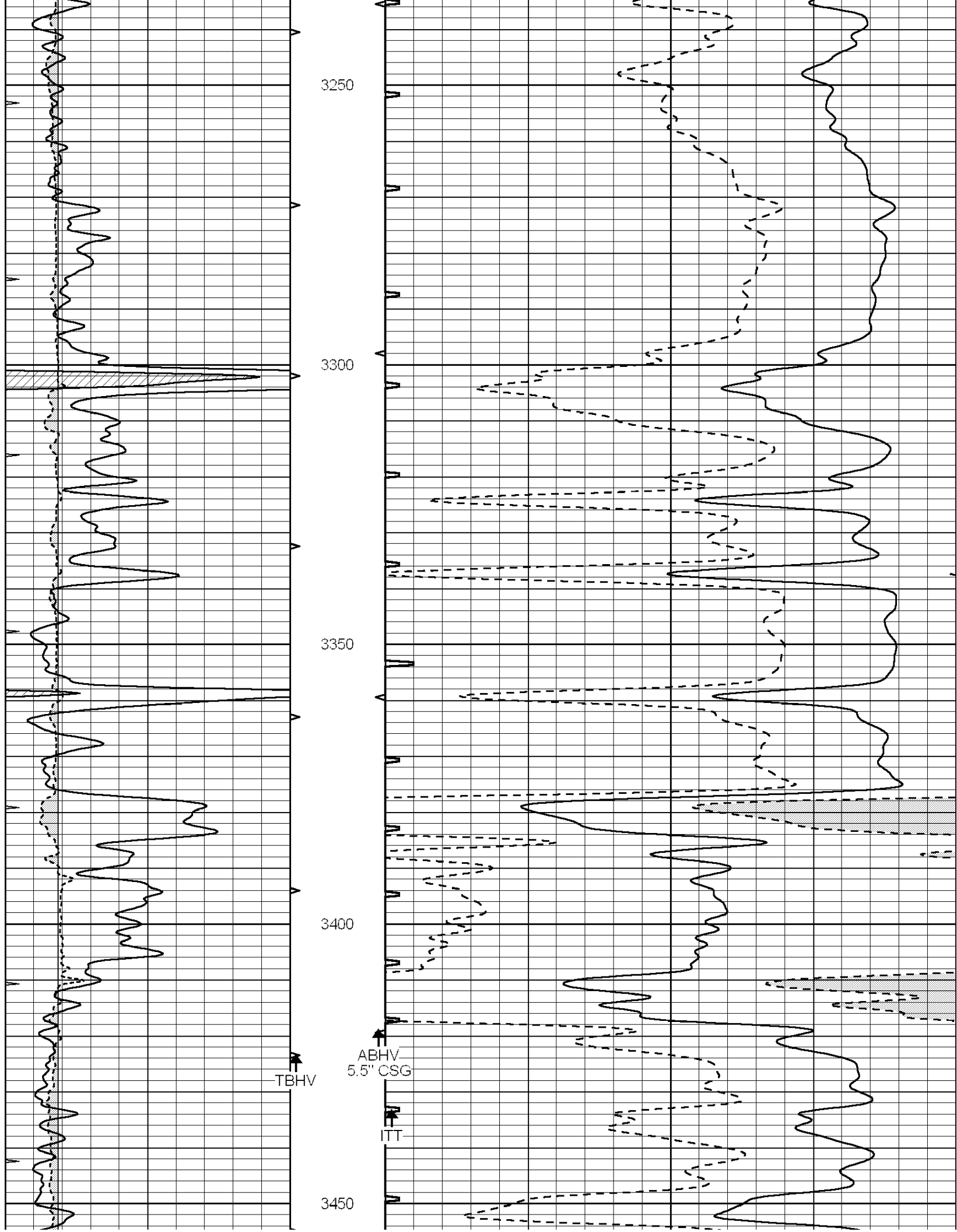
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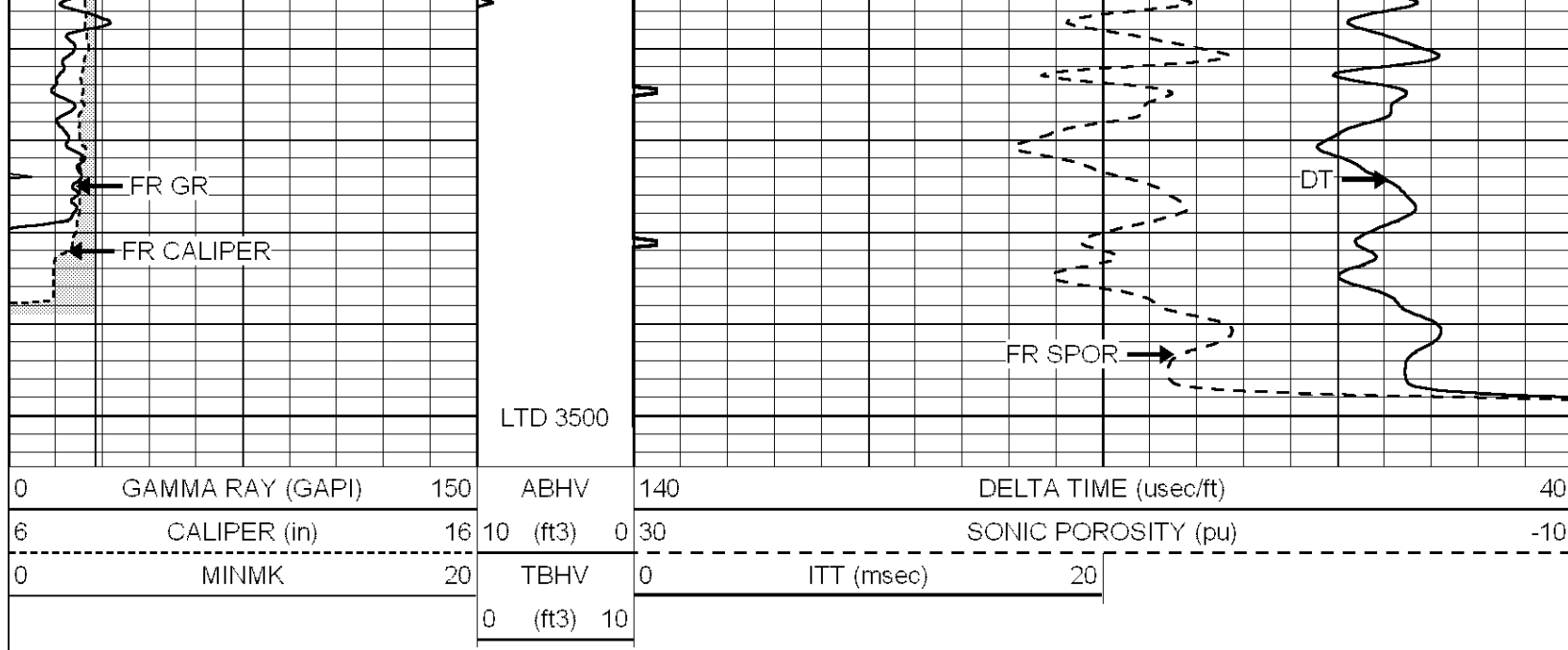
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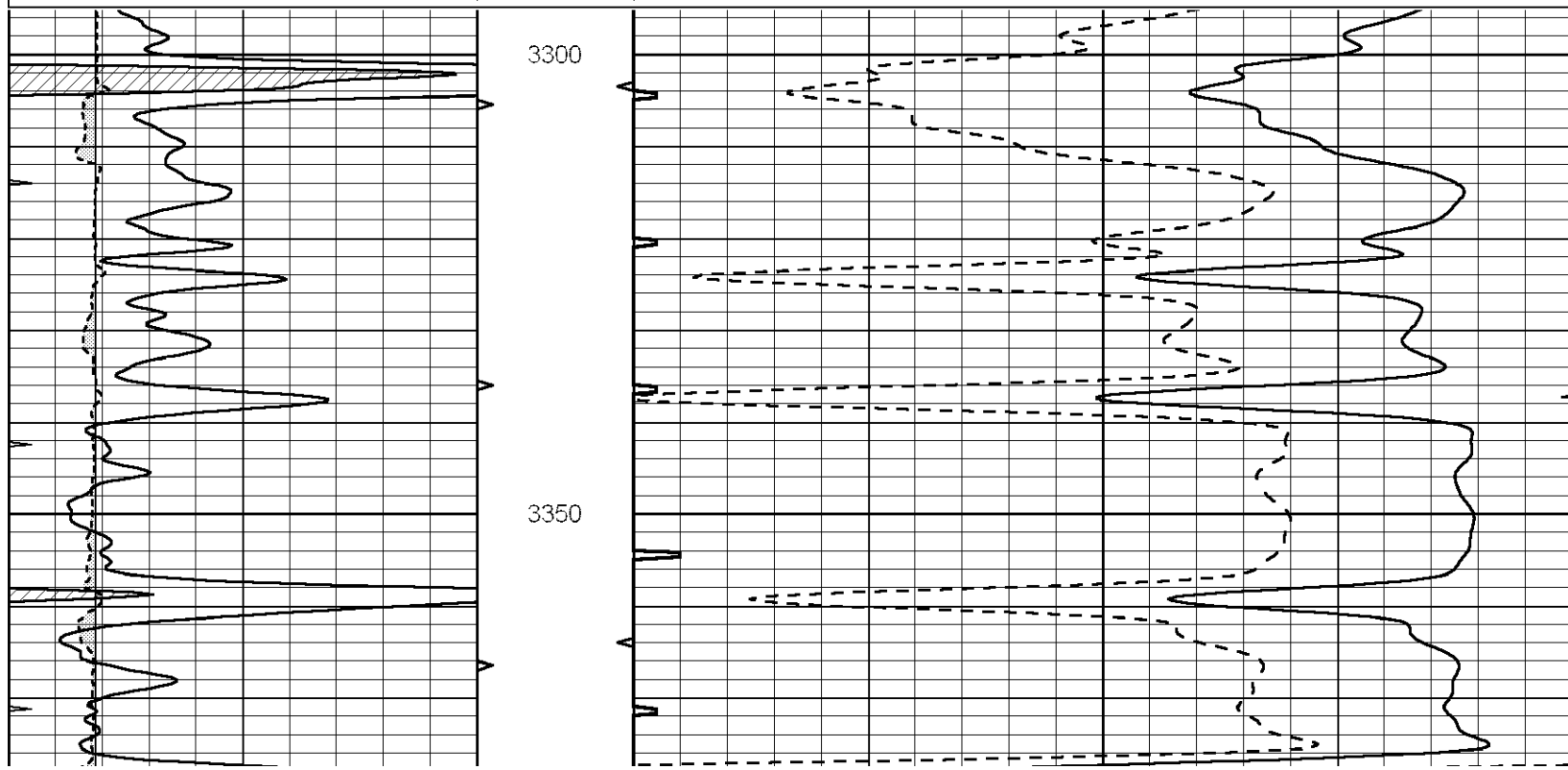
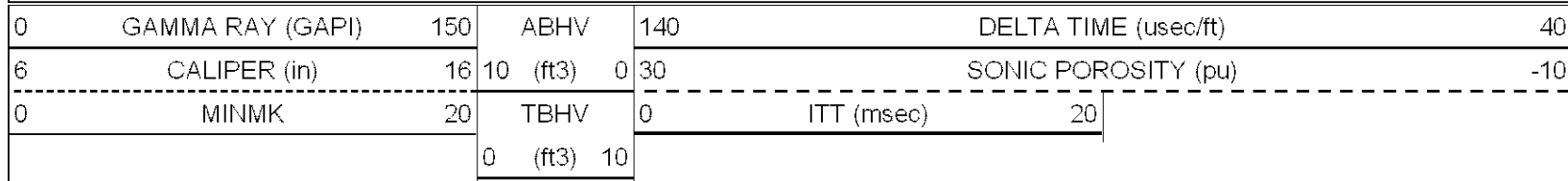


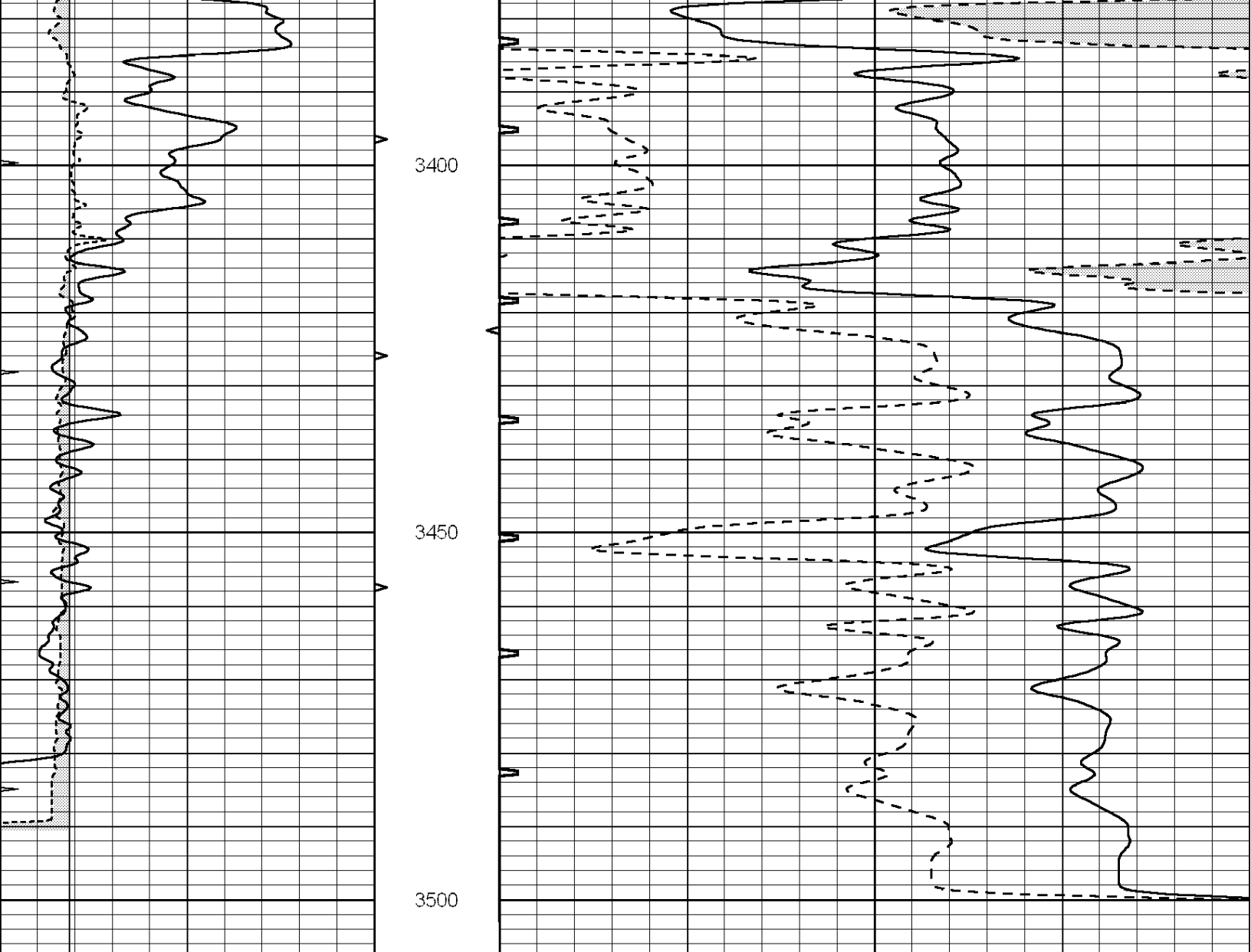


SUPERIOR  
Hays,  
Kansas

# REPEAT SECTION

Database File: 005922ddn.db  
 Dataset Pathname: pass5.1  
 Presentation Format: slt  
 Dataset Creation: Fri Nov 19 10:11:21 2010 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240





|   |                  |     |            |     |                      |     |
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