



# NABORS

**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**SONIC  
LOG**

|                              |               |                                                                         |  |
|------------------------------|---------------|-------------------------------------------------------------------------|--|
| Company                      |               | I.A. OPERATING, INC.                                                    |  |
| Well                         |               | PEAVEY D #6-1                                                           |  |
| Field                        |               | ANDERSON                                                                |  |
| County                       |               | ELLIS                                                                   |  |
| State                        |               | KANSAS                                                                  |  |
| Location:                    |               | API # : 15-051-26540-00-00<br>520' FNL & 1130' FWL<br>SE - NE - NW - NW |  |
| Permanent Datum              |               | GROUND LEVEL                                                            |  |
| Log Measured From            |               | KELLY BUSHING & A.G.L.                                                  |  |
| Drilling Measured From       |               | KELLY BUSHING                                                           |  |
| SEC 6                        |               | TWP 11S RGE 18W                                                         |  |
| Other Services               |               | CDL/CNL<br>DIL/MEL                                                      |  |
| Elevation                    |               | K.B. 1959<br>D.F. 1957<br>G.L. 1951                                     |  |
| Date                         | 6/10/13       |                                                                         |  |
| Run Number                   | TWO           |                                                                         |  |
| Depth Driller                | 3580          |                                                                         |  |
| Depth Logger                 | 3579          |                                                                         |  |
| Bottom Logged Interval       | 3569          |                                                                         |  |
| Top Log Interval             | 250           |                                                                         |  |
| Casing Driller               | 8 5/8" @ 263  |                                                                         |  |
| Casing Logger                | 263           |                                                                         |  |
| Bit Size                     | 7 7/8         |                                                                         |  |
| Type Fluid in Hole           | CHEMICAL MUD  |                                                                         |  |
| Density / Viscosity          | 9.1/50        |                                                                         |  |
| pH / Fluid Loss              | 9.5/8.8       |                                                                         |  |
| Source of Sample             | FLOWLINE      |                                                                         |  |
| Rin @ Meas. Temp             | 0.45 @ 89F    |                                                                         |  |
| Rmf @ Meas. Temp             | 0.34 @ 89F    |                                                                         |  |
| Rmc @ Meas. Temp             | 0.54 @ 89F    |                                                                         |  |
| Source of Rmf / Rmc          | MEASURED      |                                                                         |  |
| Rin @ BHT                    | 0.36 @ 112F   |                                                                         |  |
| Time Circulation Stopped     | 2 HOURS       |                                                                         |  |
| Time Logger on Bottom        |               |                                                                         |  |
| Maximum Recorded Temperature | 112F          |                                                                         |  |
| Equipment Number             | 680           |                                                                         |  |
| Location                     | HAYS, KS.     |                                                                         |  |
| Recorded By                  | JEFF GRONEMEG |                                                                         |  |
| Witnessed By                 | MARC DOWNING  |                                                                         |  |

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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

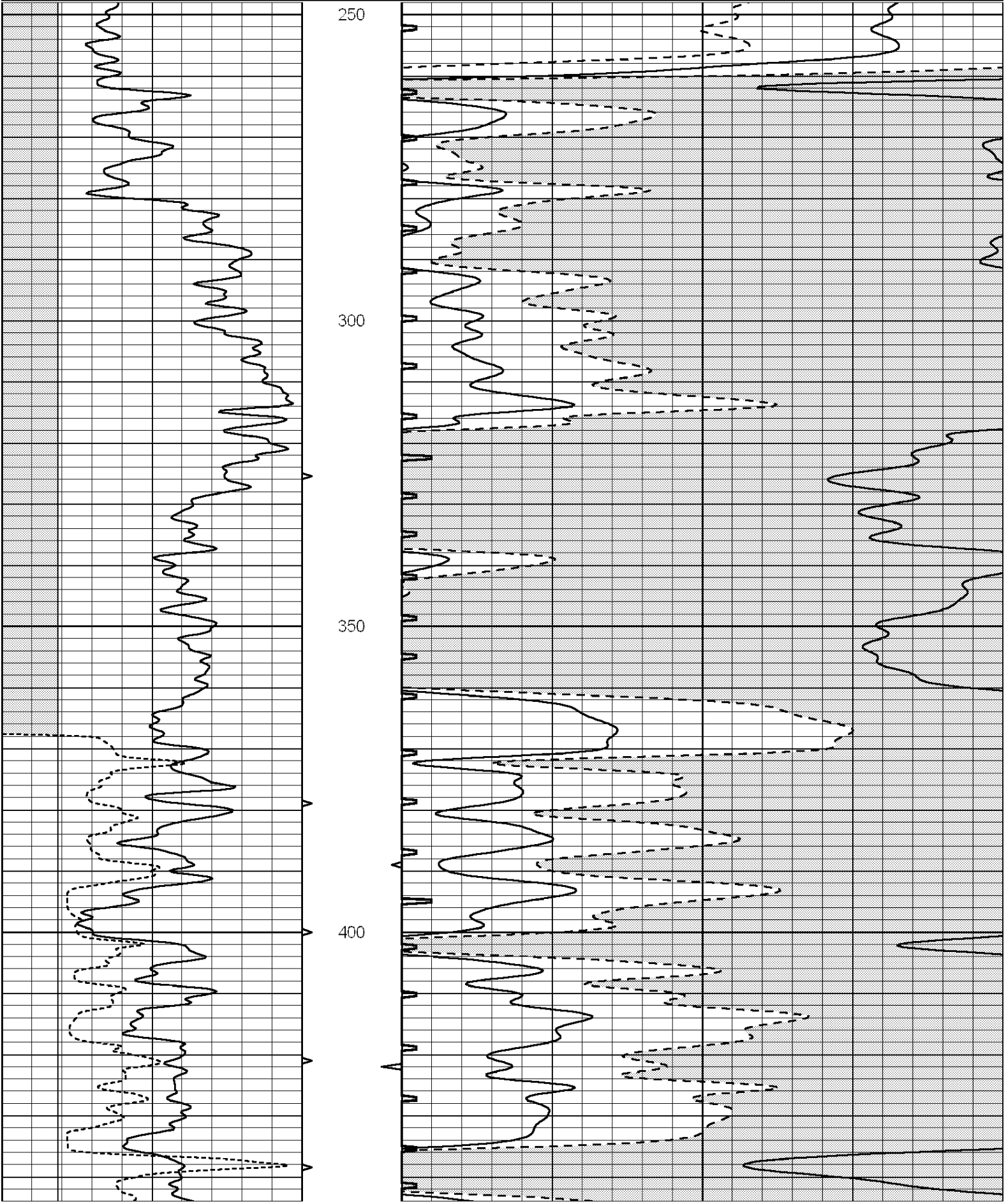
THANK YOU FOR USING NABORS COMPLETION & PRODUCTION SVCS. (785) 628-6395

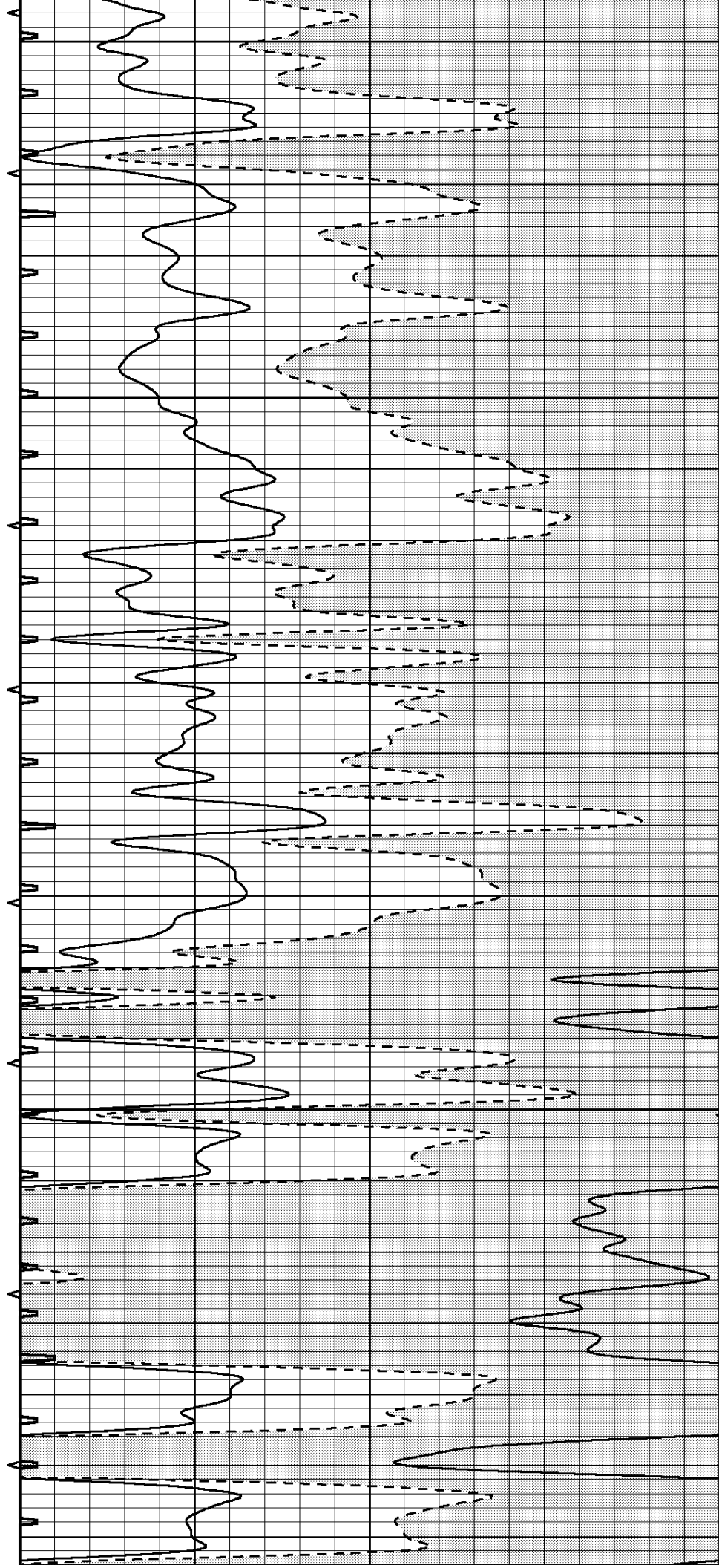
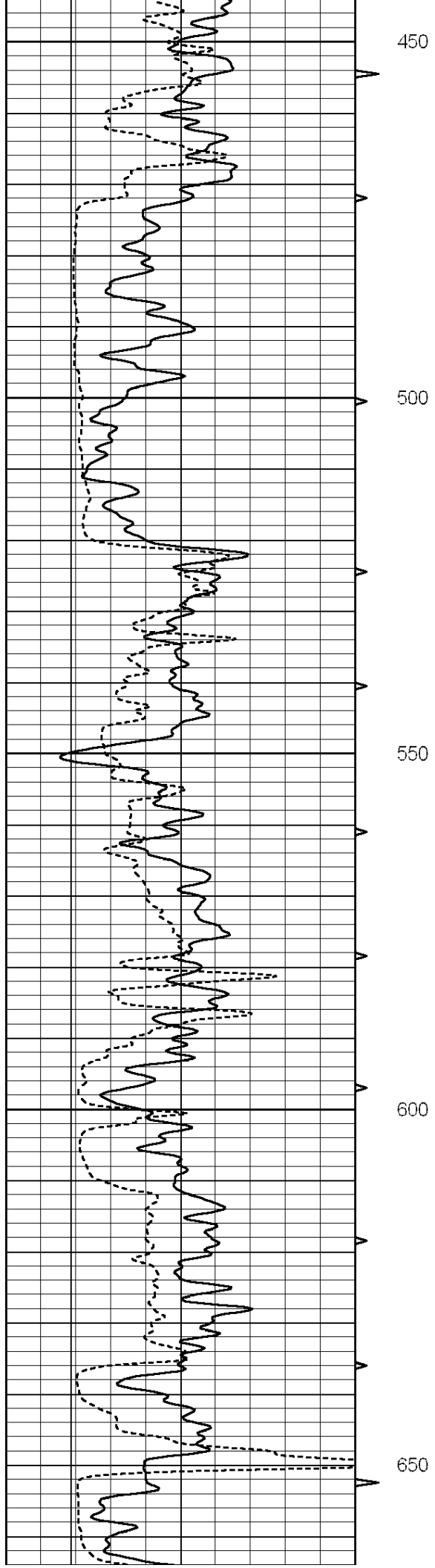
## DIRECTIONS:

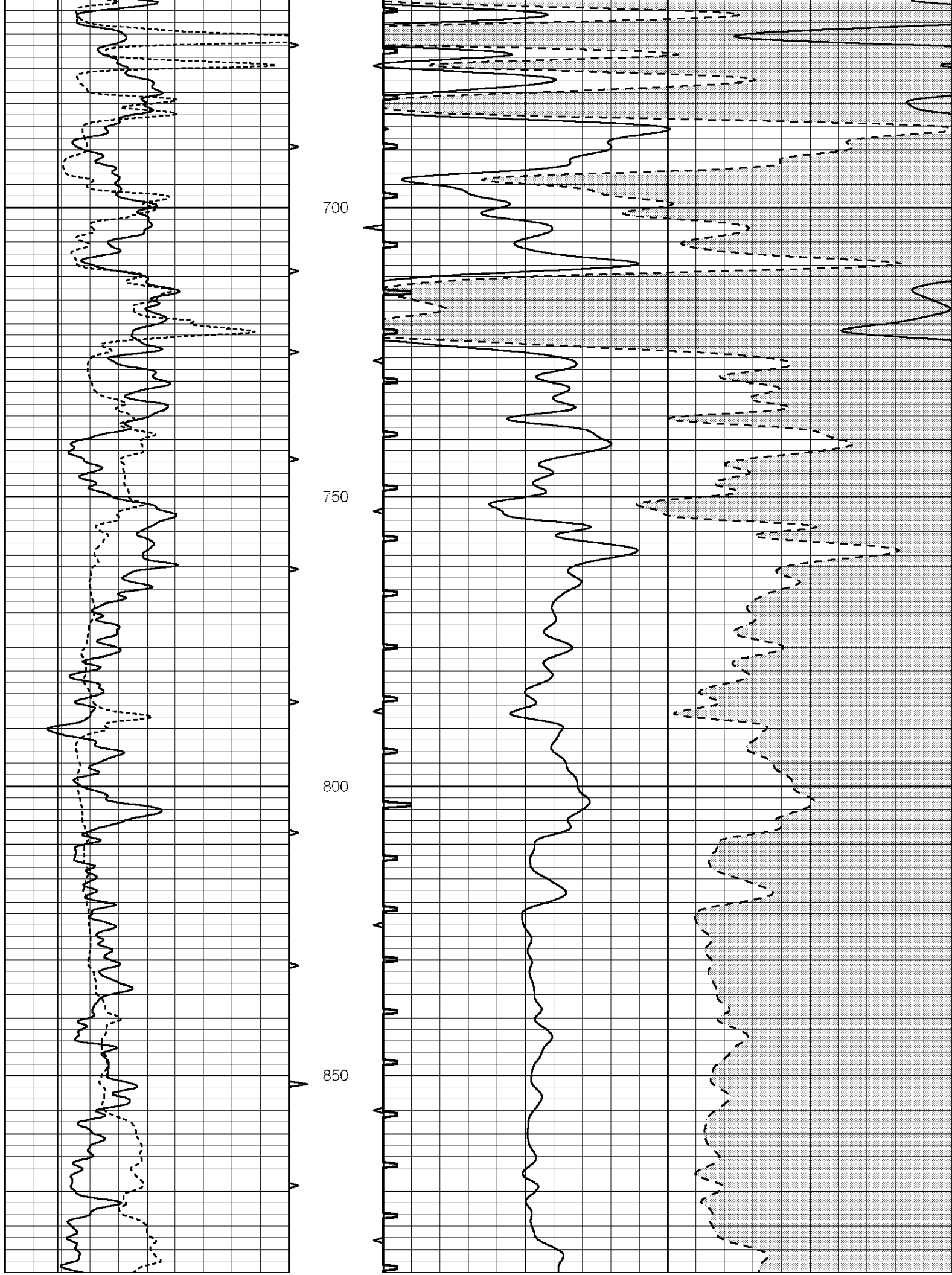
HAYS, KS - NORTH TO SALINE RIVER RD - 1 1/2 MILES WEST TO RD 240  
2.8 MILES NORTH AND WEST - WEST 3/4 MILE INTO AT PB RANCH SIGN

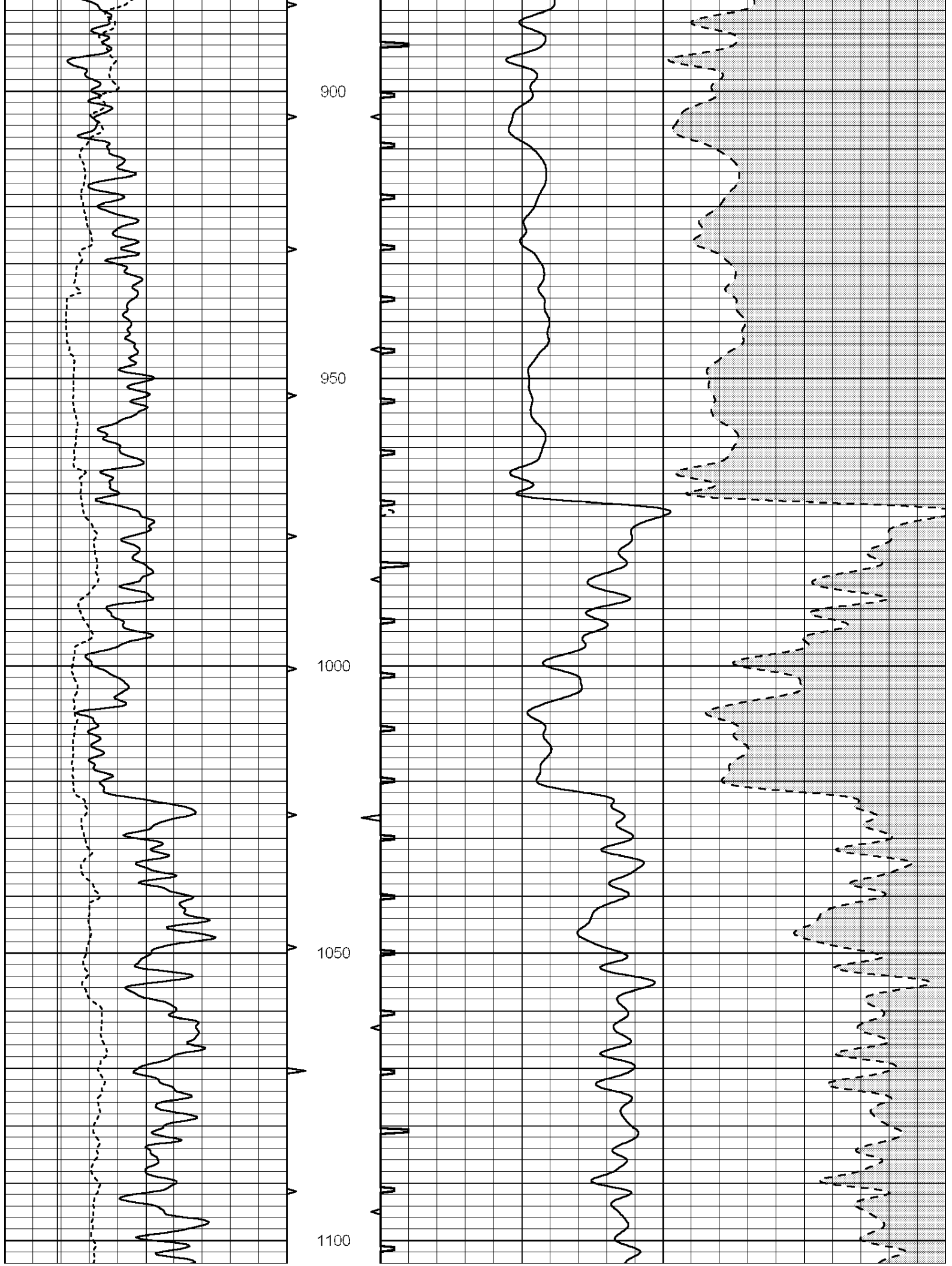
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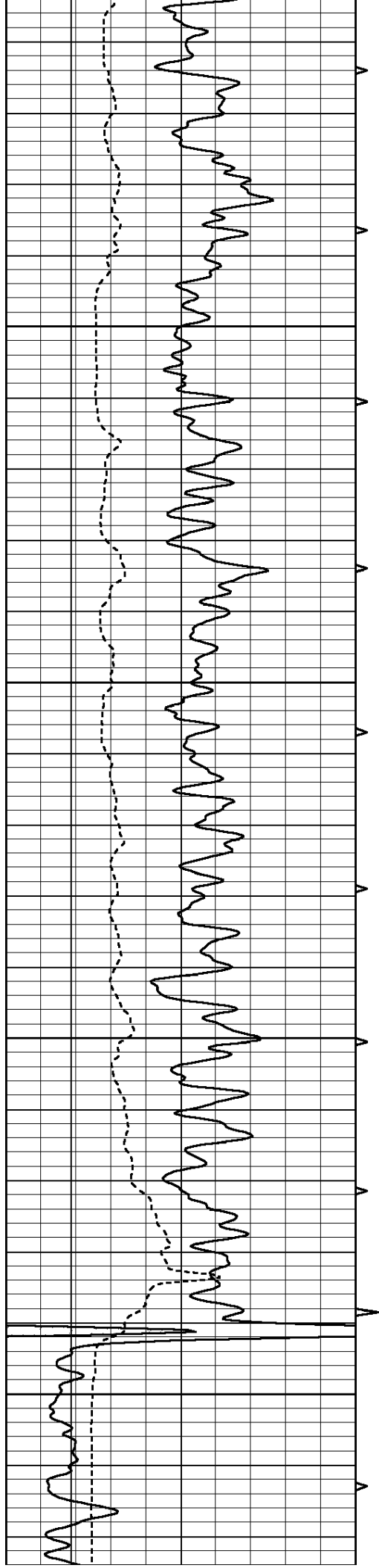
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|-------------|------------------|-----------------------------|------------|-----|----------------------|-----|
| Charted by: |                  | Depth in Feet scaled 1:2.15 |            |     |                      |     |
| 0           | GAMMA RAY (GAPI) | 150                         | ABHV       | 140 | DELTA TIME (usec/ft) | 40  |
| 6           | CALIPER (in)     | 16                          | 10 (ft3) 0 | 30  | SONIC POROSITY (pu)  | -10 |
|             |                  |                             | TBHV       | 0   | ITT (msec)           | 20  |
|             |                  |                             | 0 (ft3) 10 |     |                      |     |









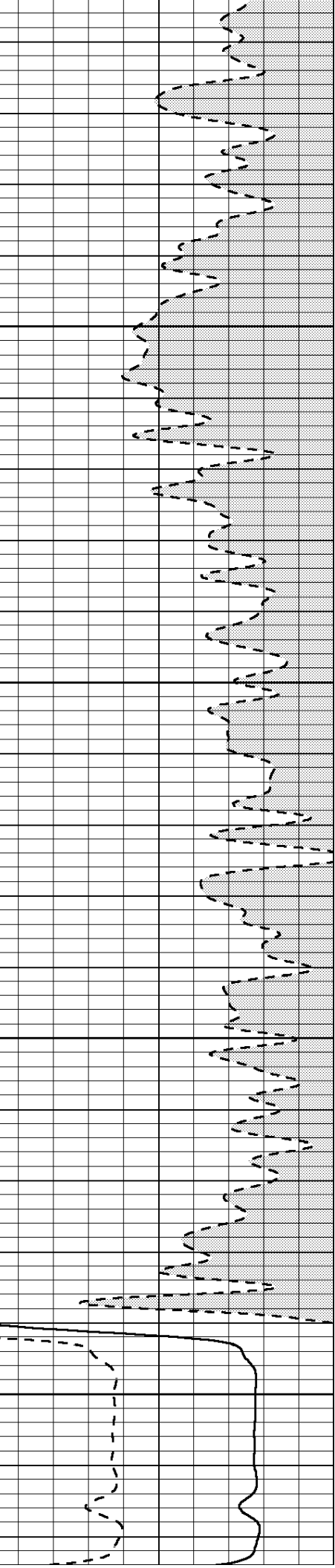
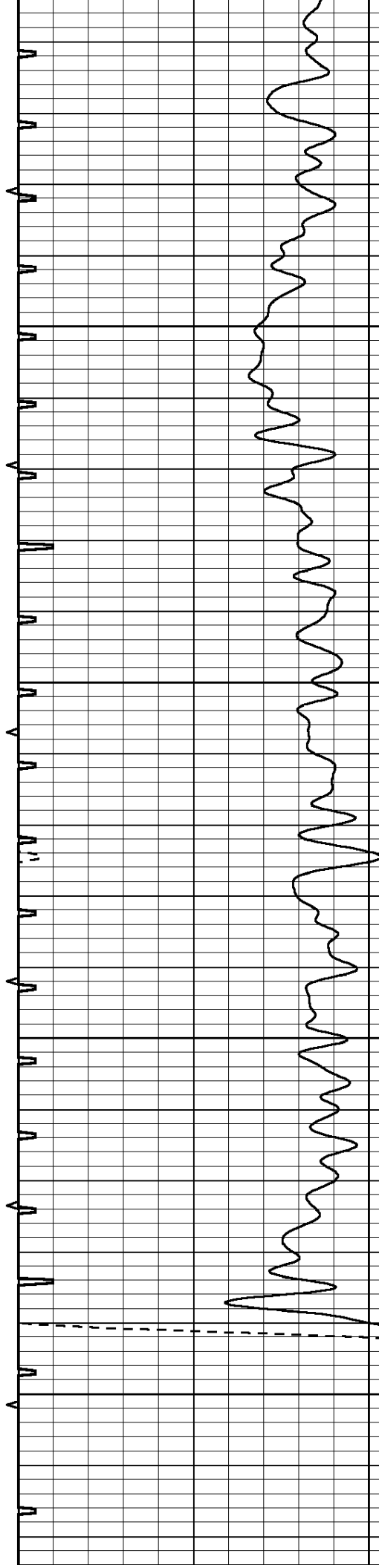


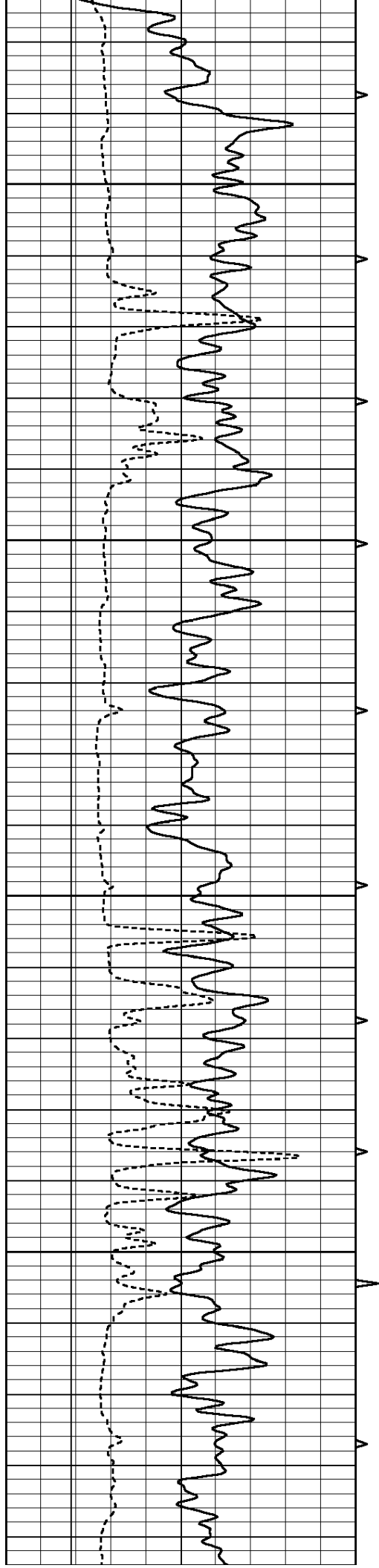
1150

1200

1250

1300



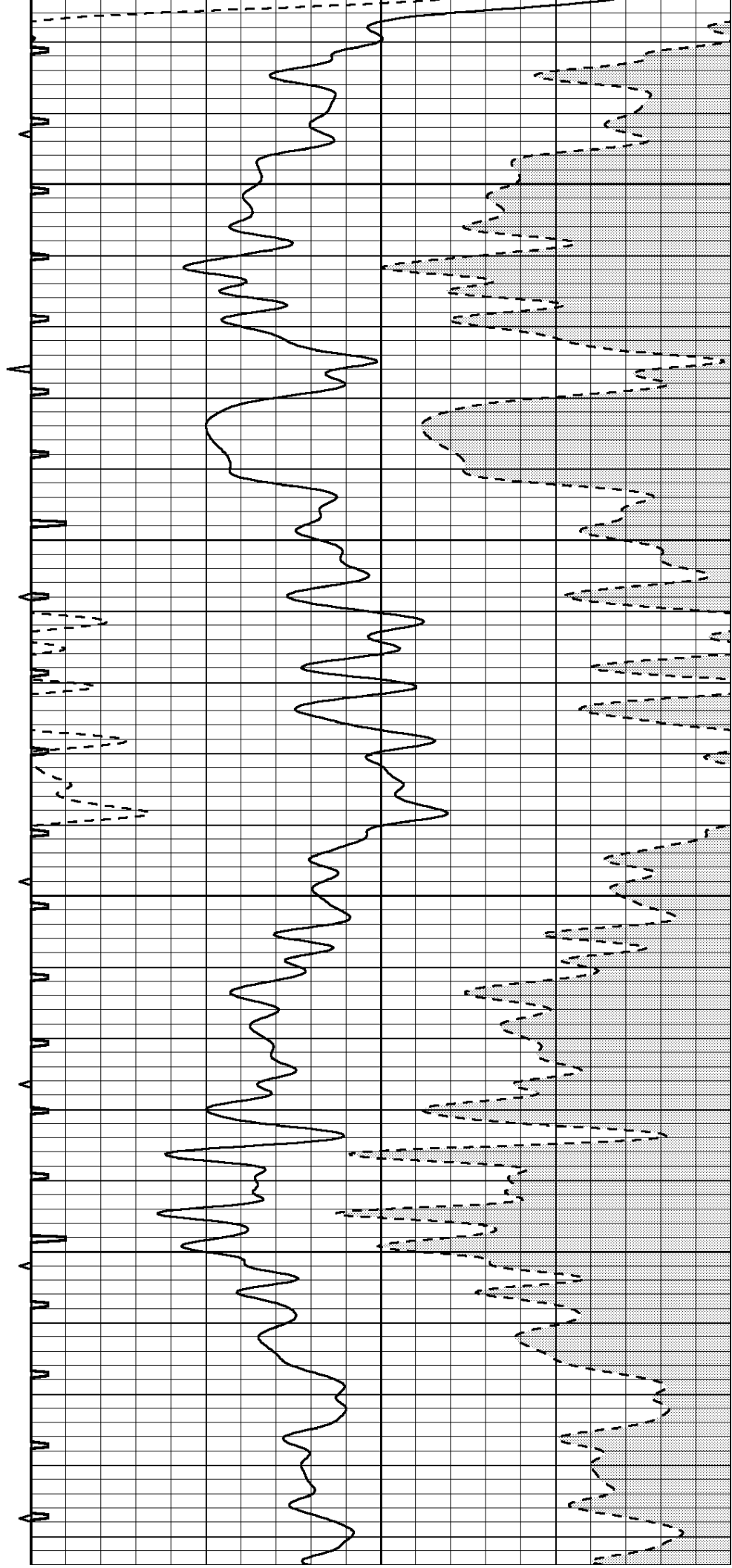


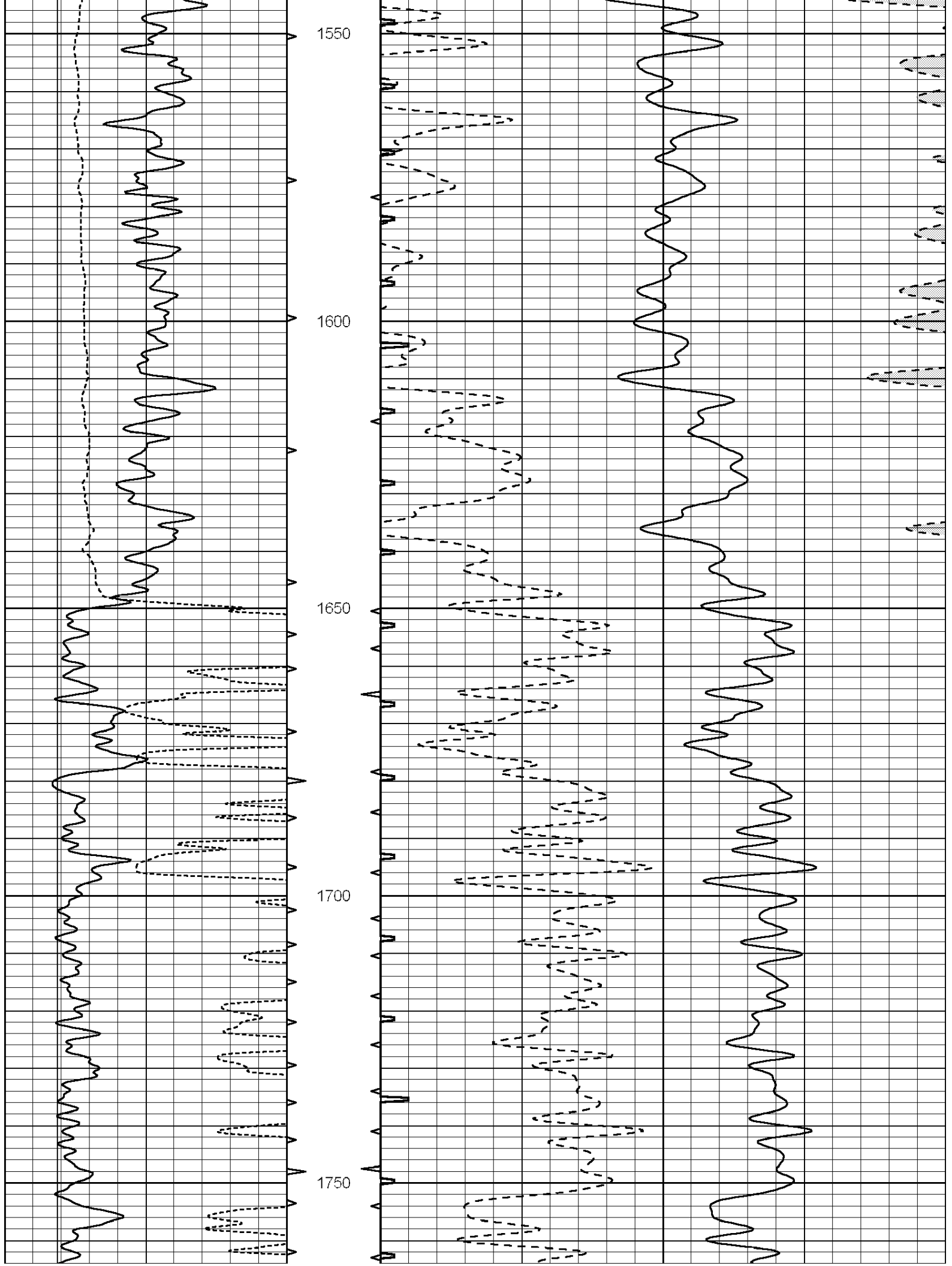
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1400

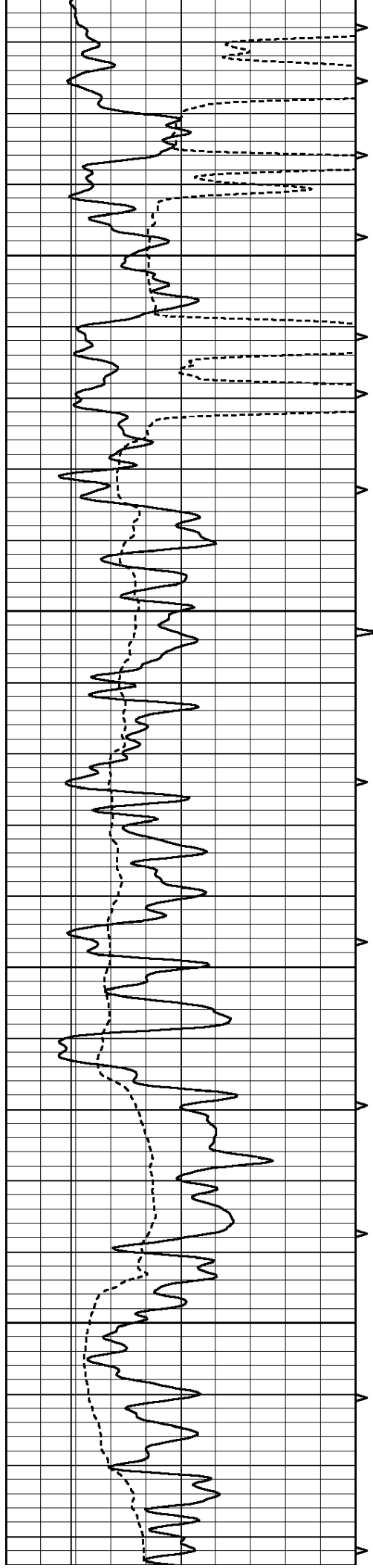
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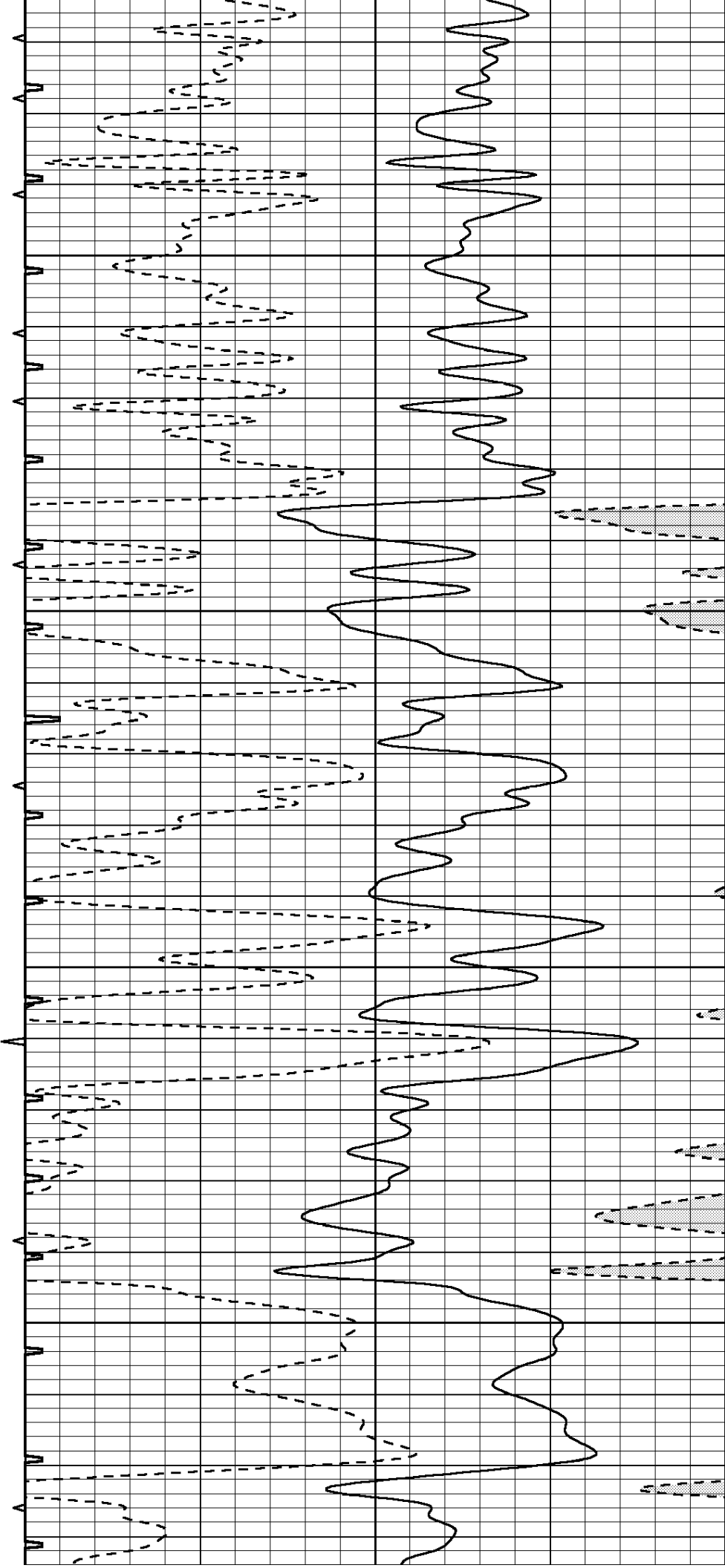


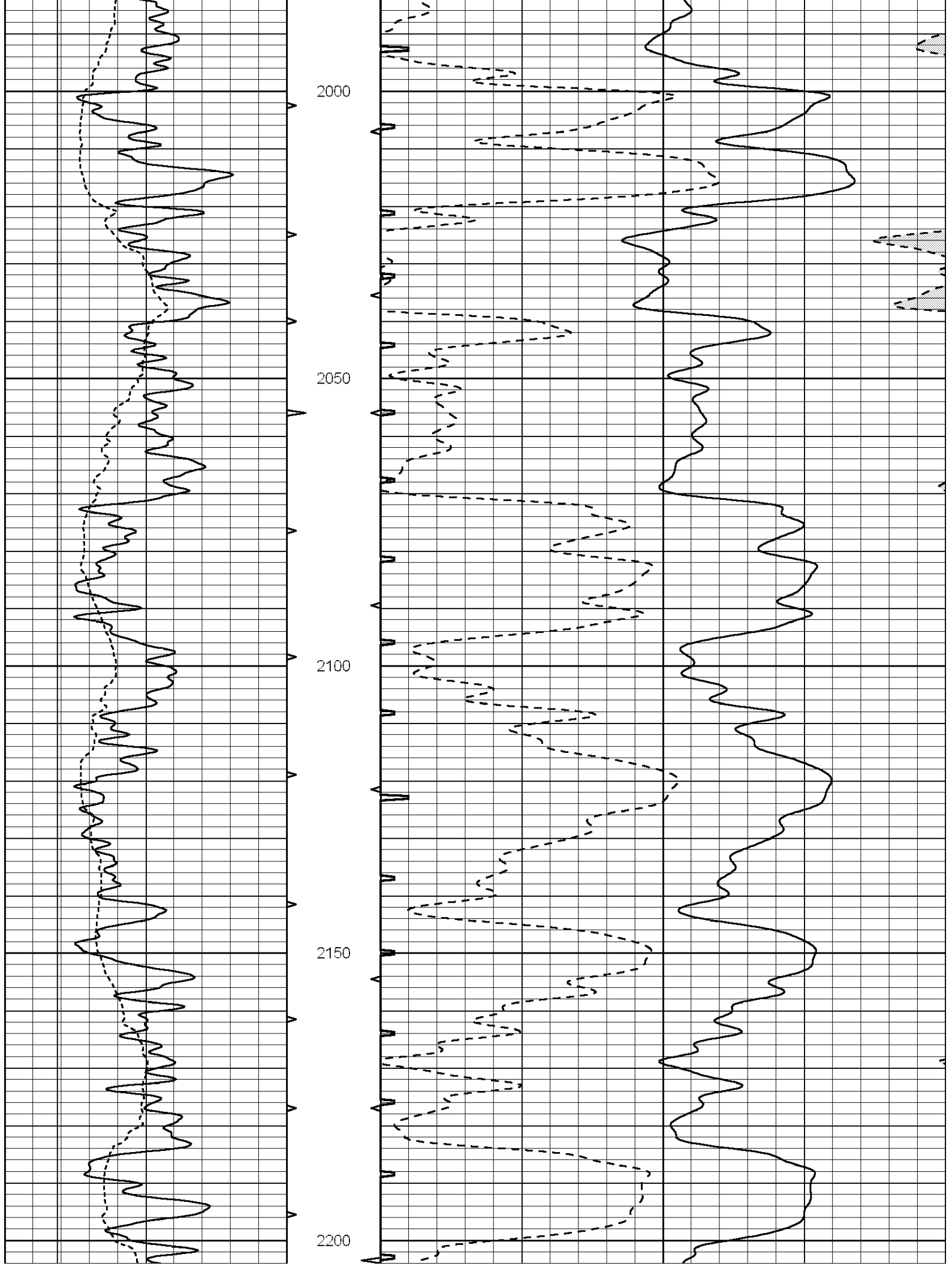
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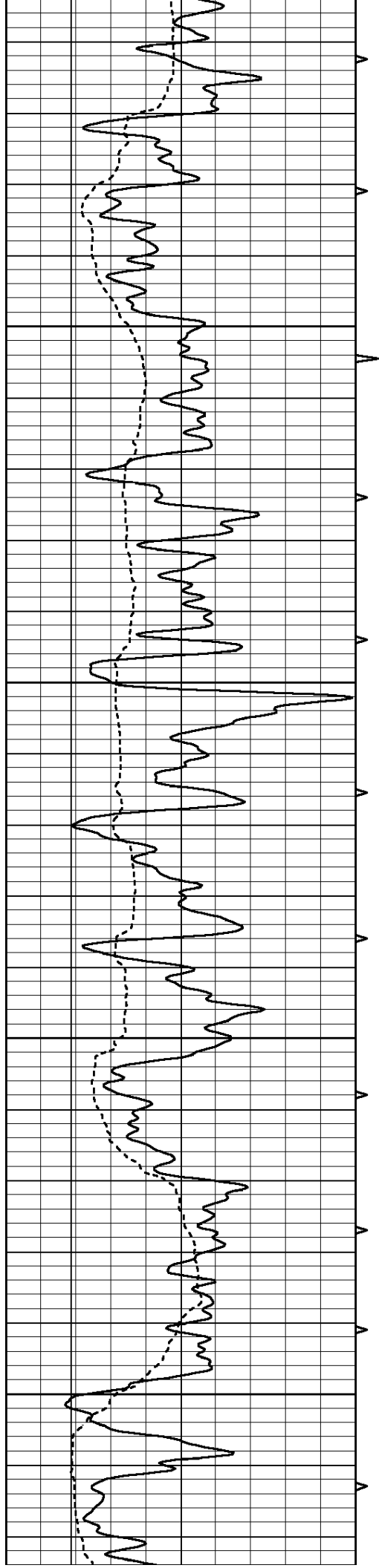
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1900

1950





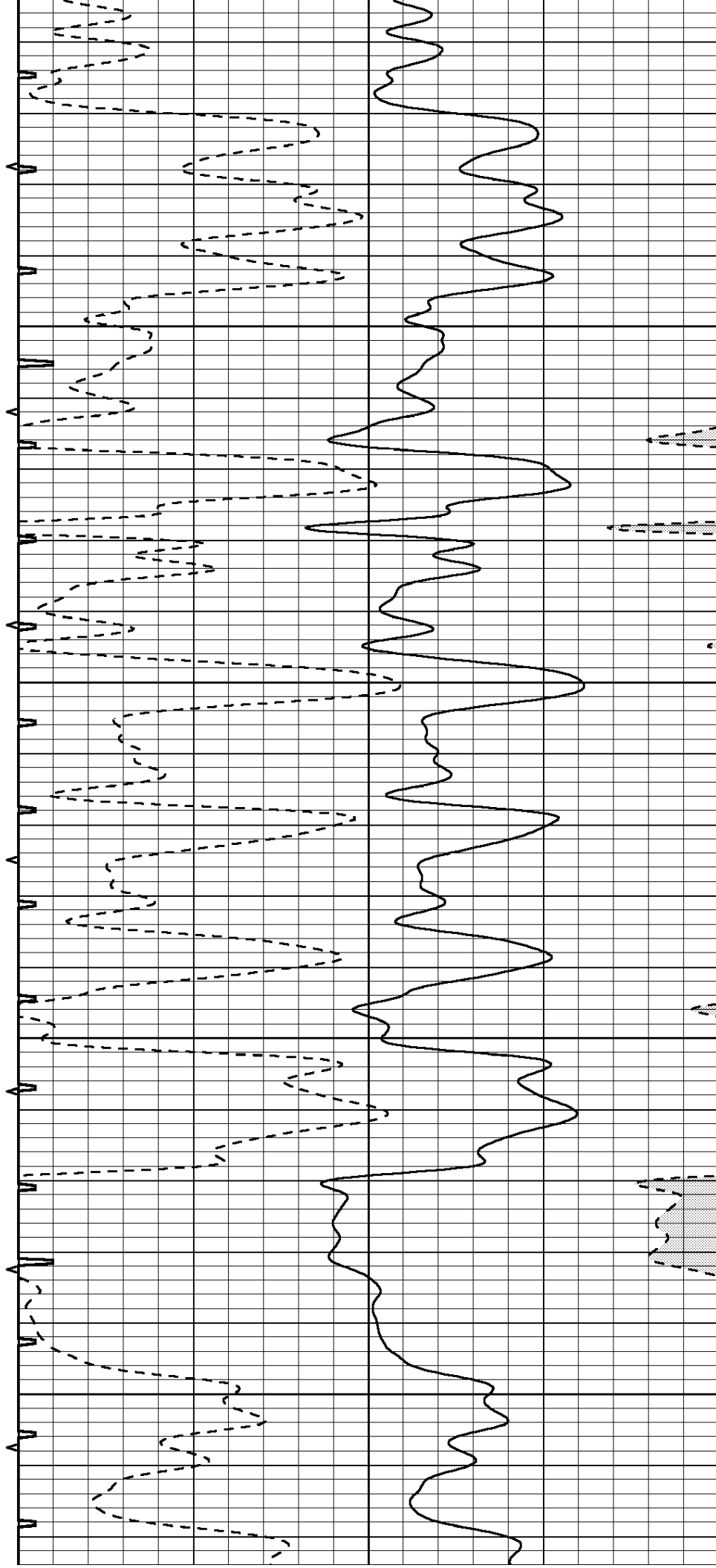


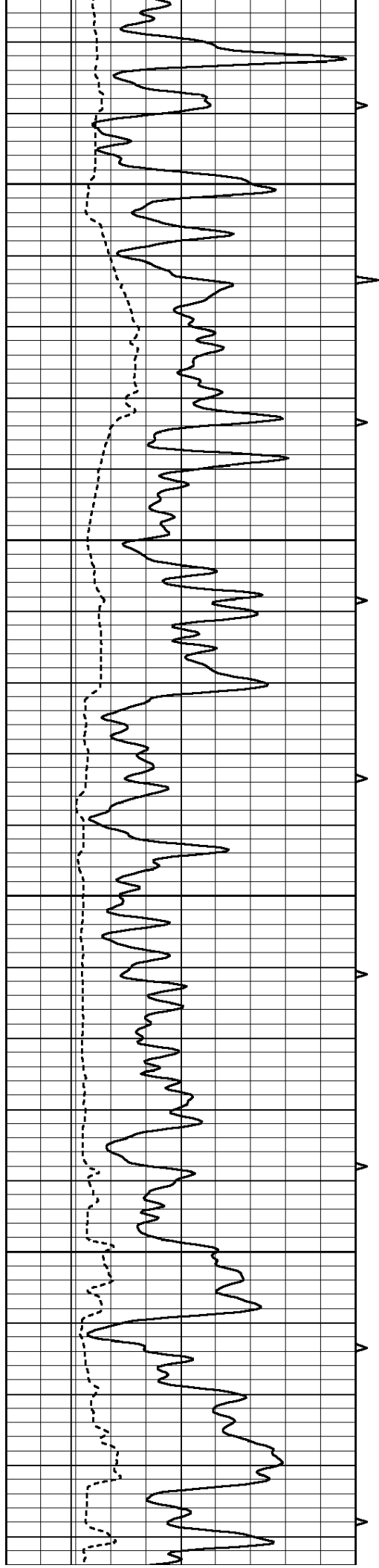
2250

2300

2350

2400



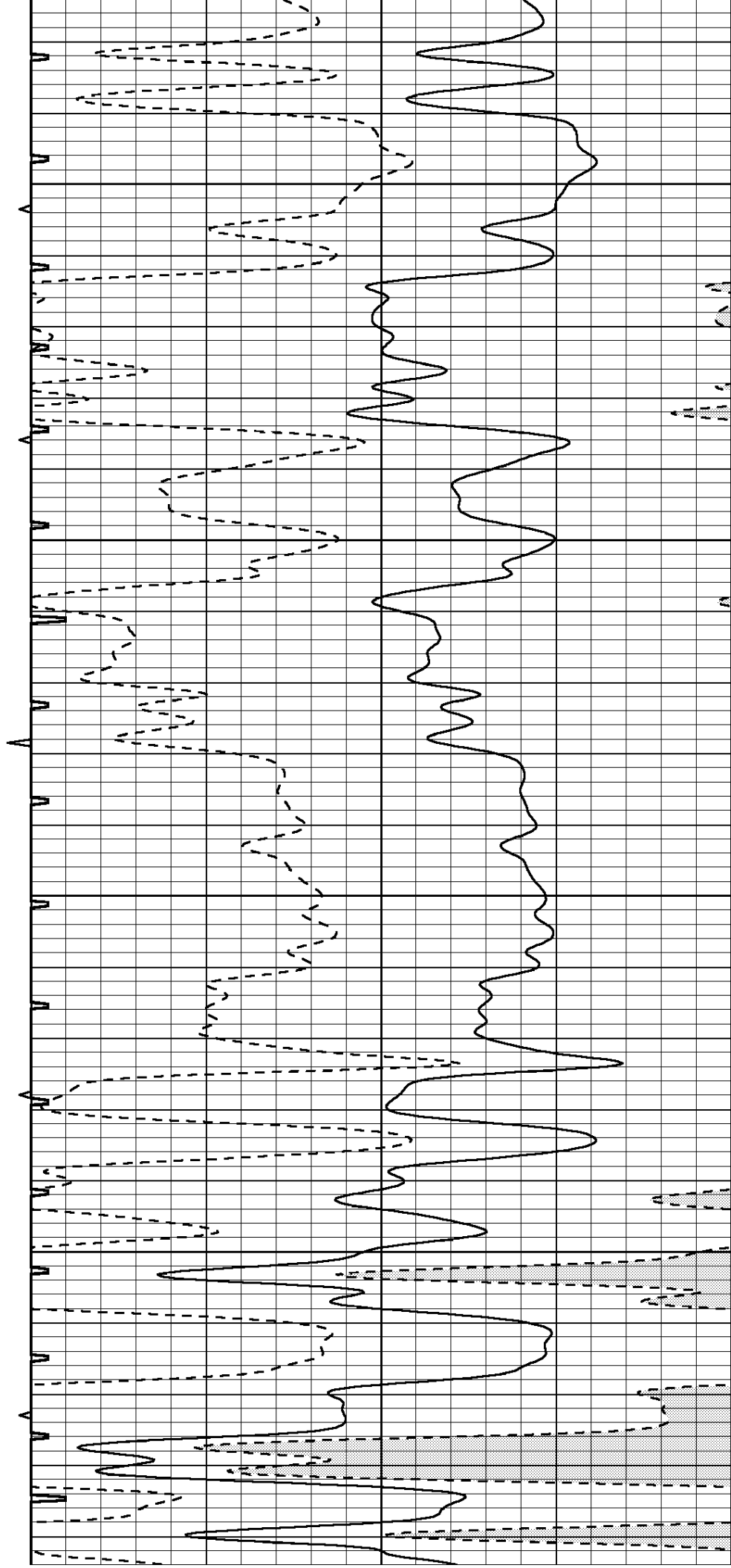


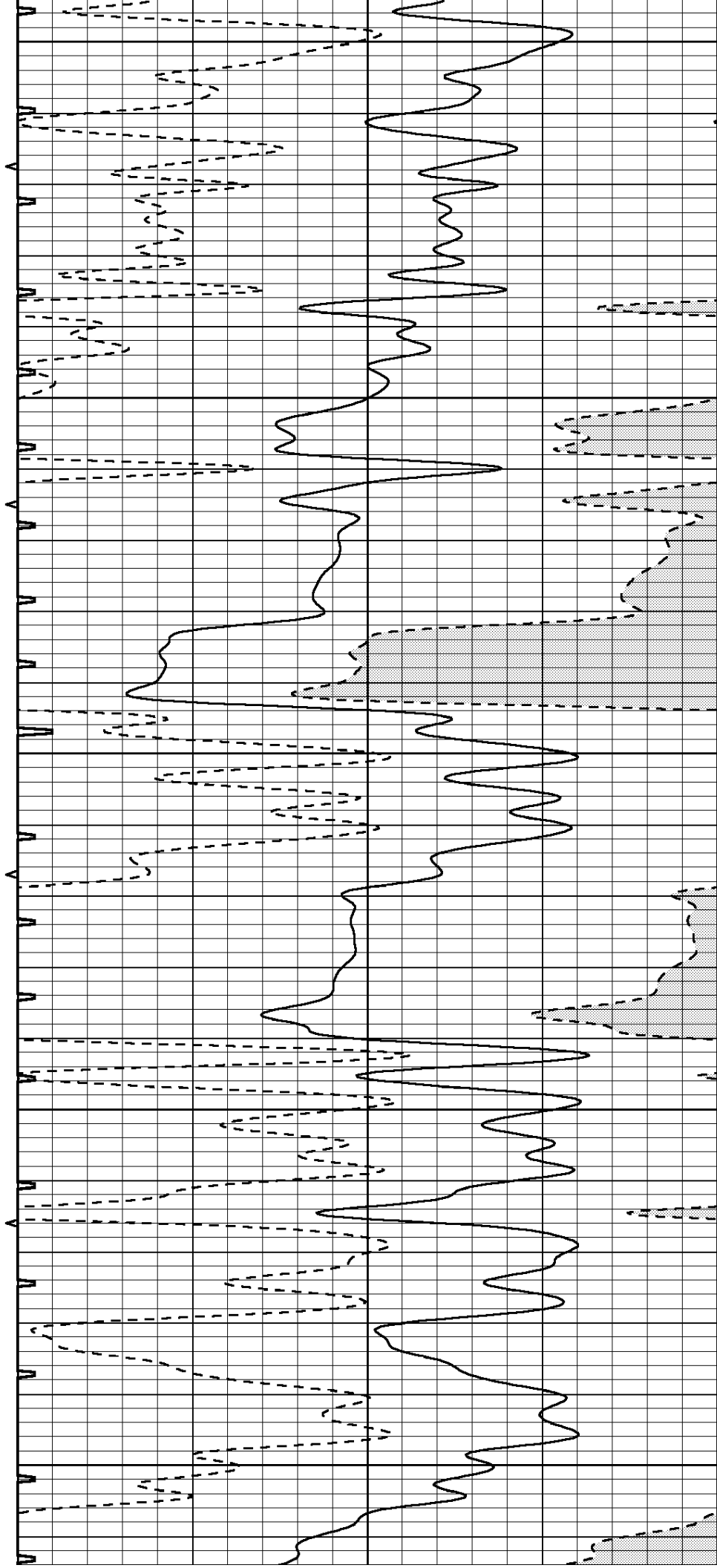
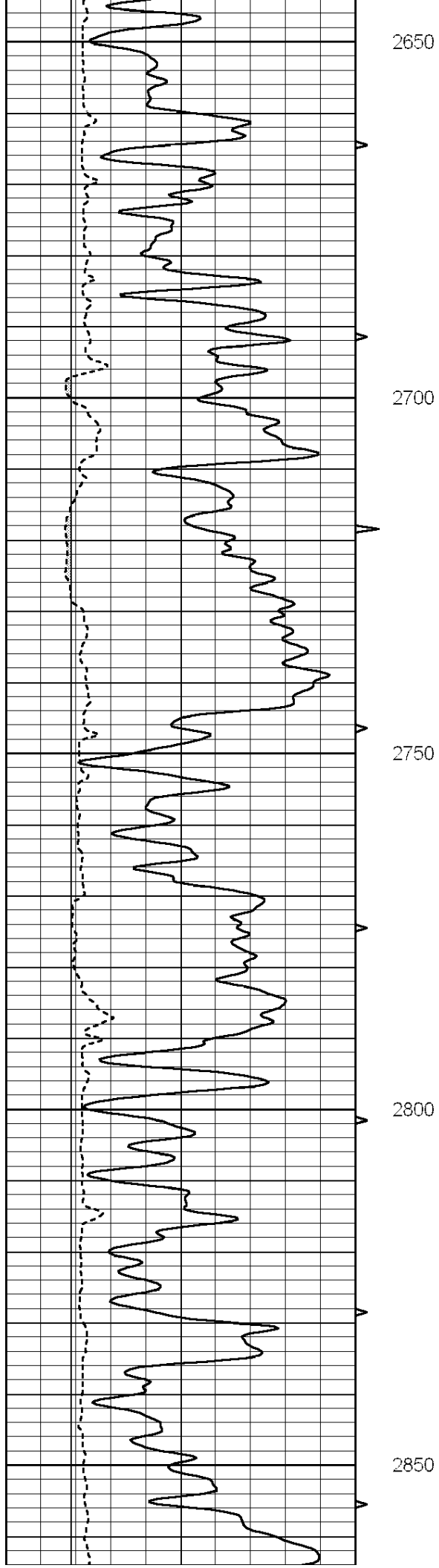
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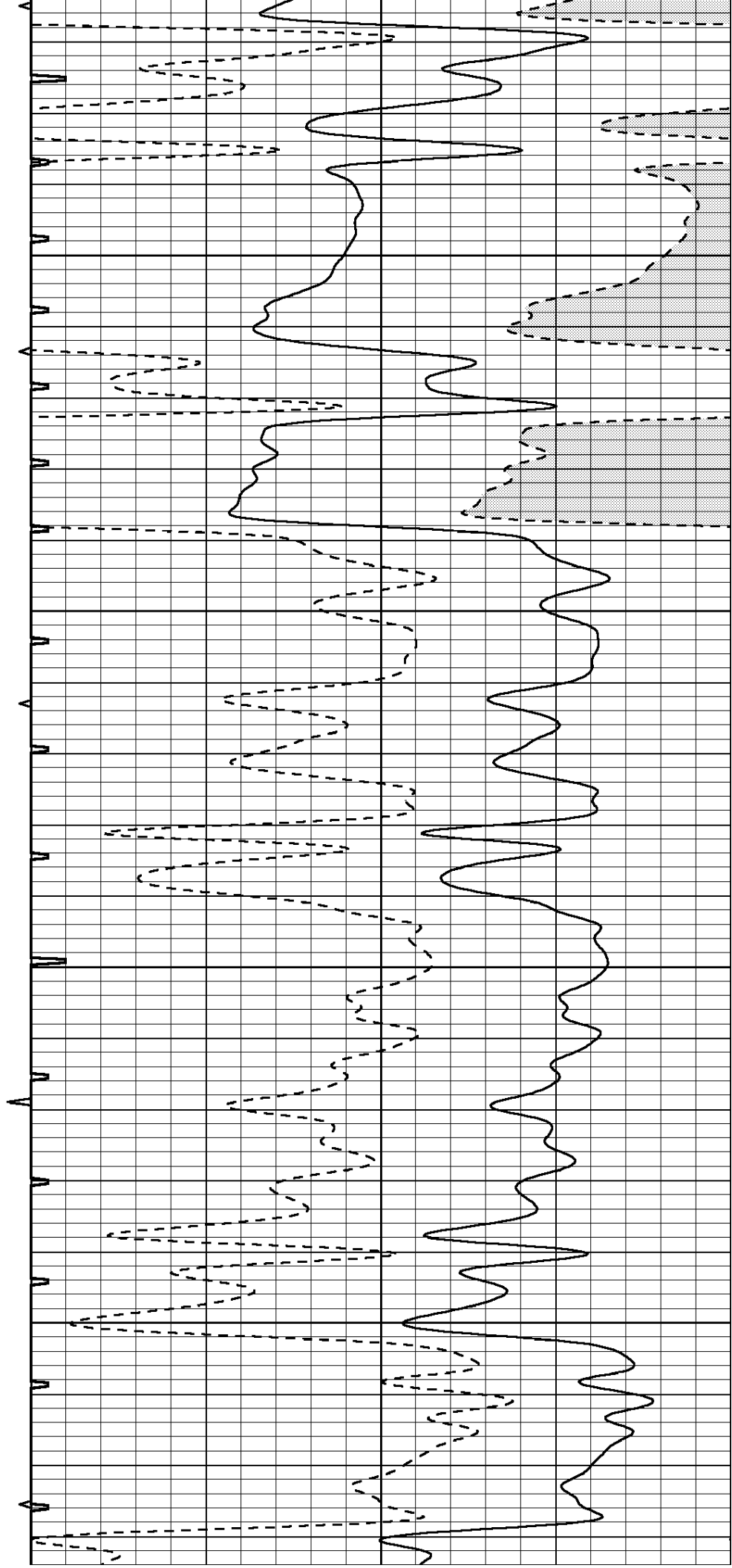
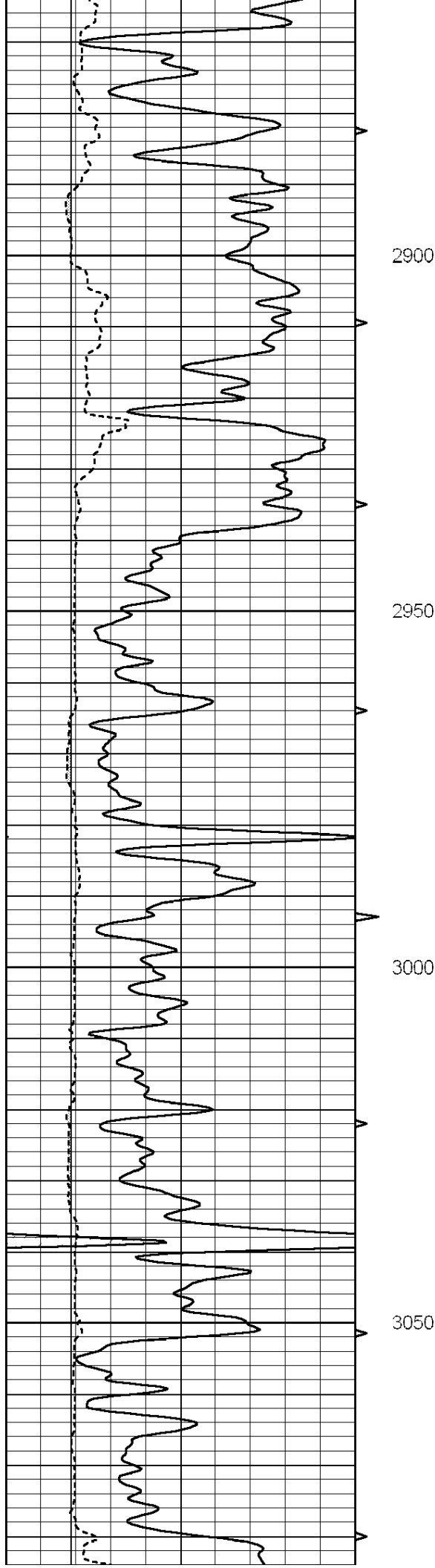
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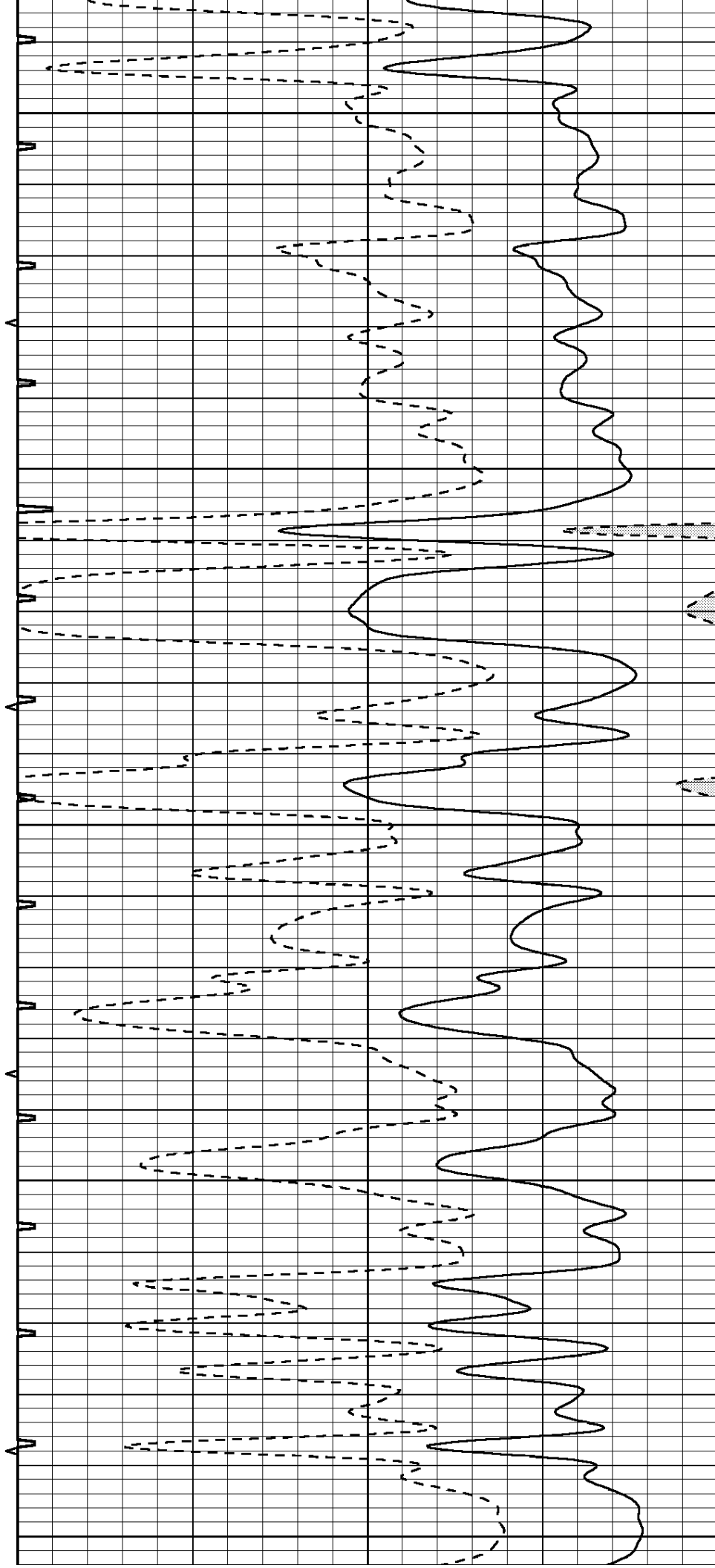
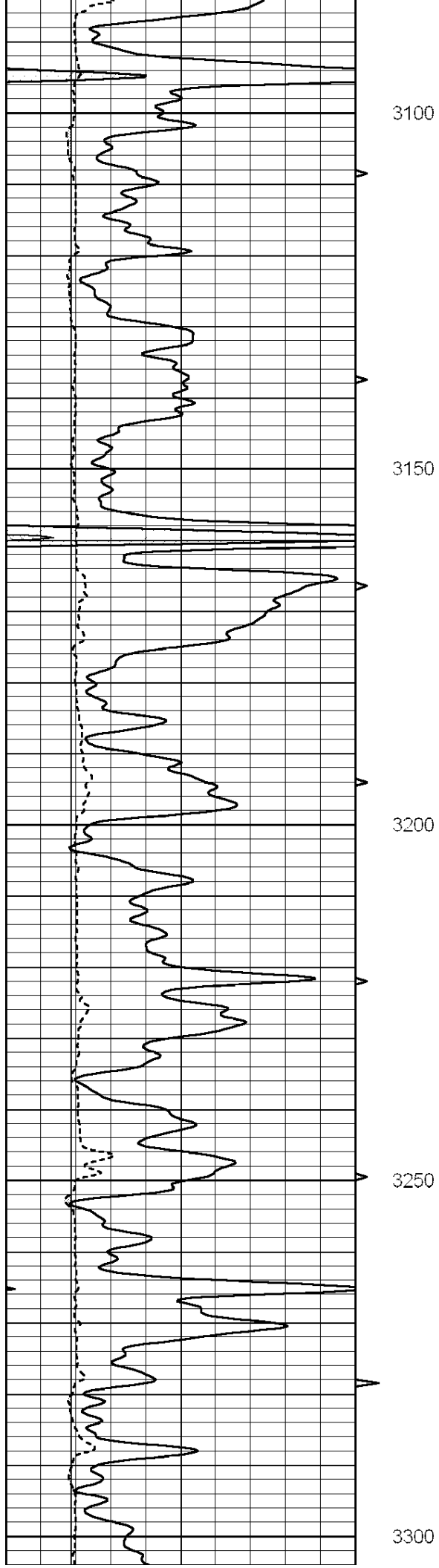
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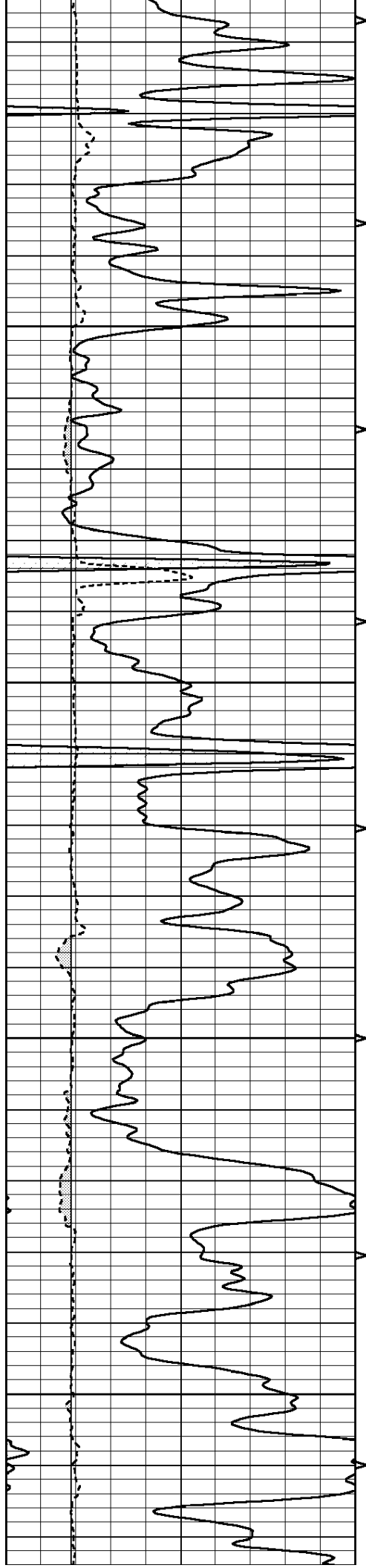
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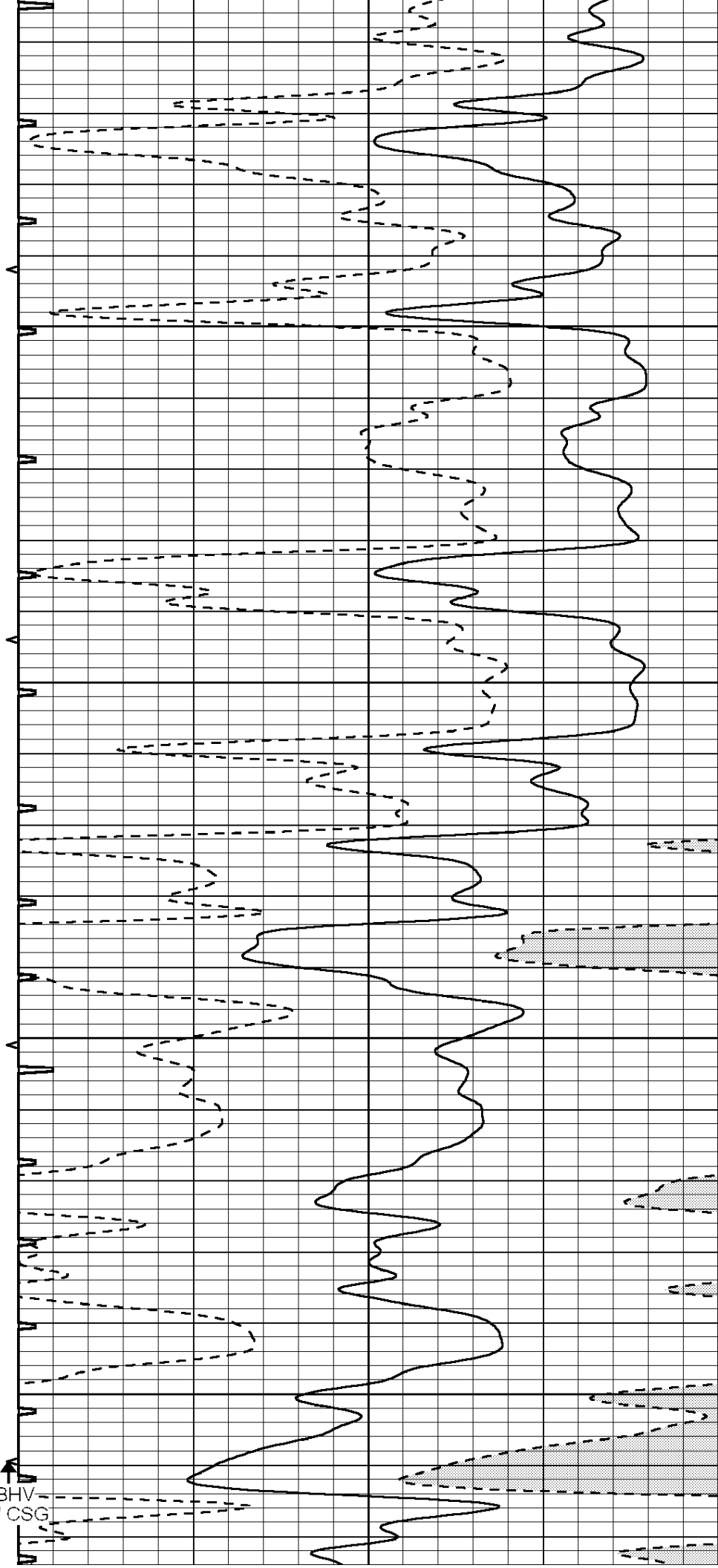
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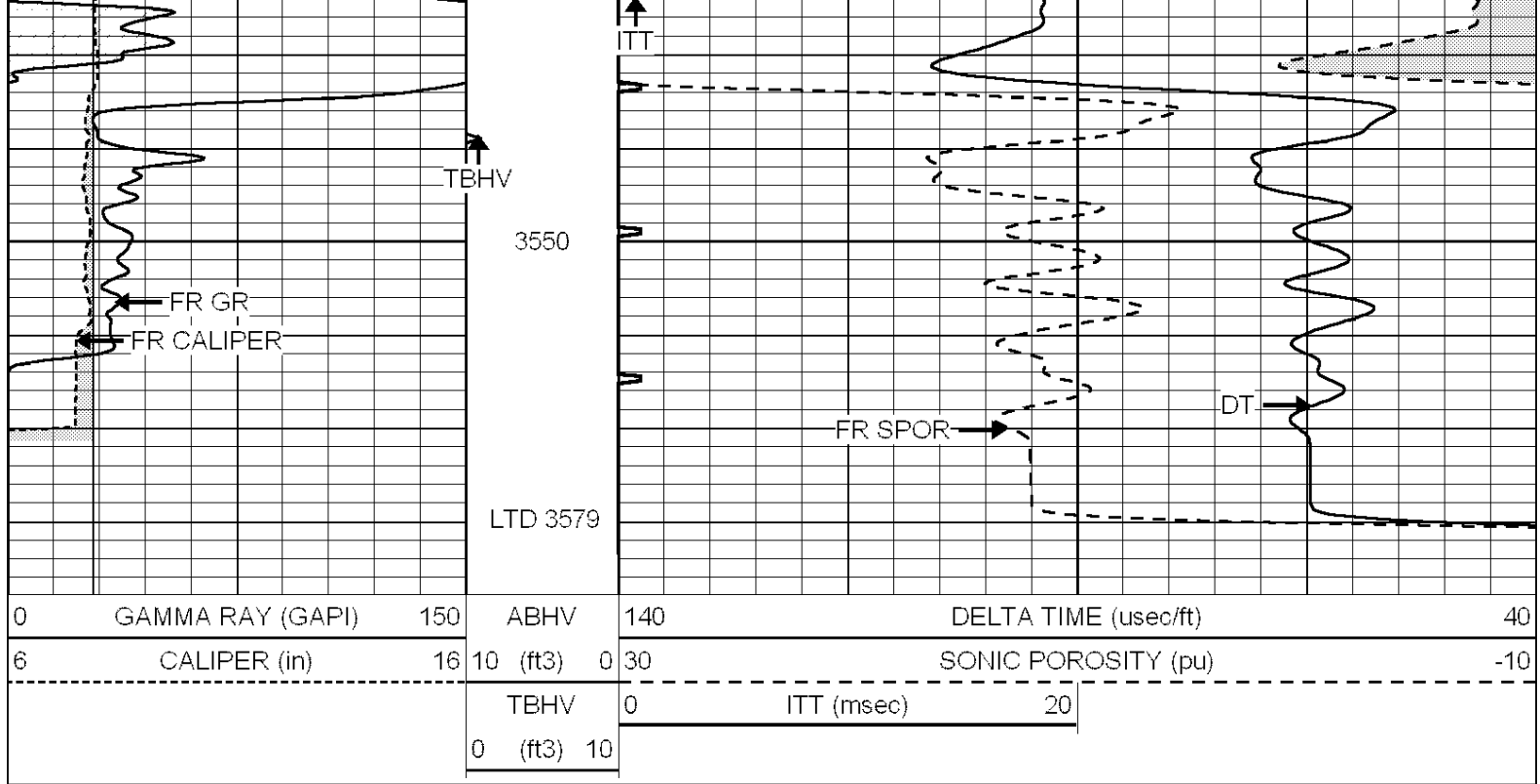
3450

3500

ABHV  
5.5" CSG







**NABORS**  
COMPLETION  
& PRODUCTION  
SERVICES CO.

## REPEAT SECTION

Database File: 061013ddn.db  
Dataset Pathname: pass5  
Presentation Format: \_slt  
Dataset Creation: Mon Jun 10 05:10:22 2013 by Log Open-Cased 090629  
Charted by: Depth in Feet scaled 1:240

