



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

**SONIC**  
**LOG**

|                              |                              |           |                                           |
|------------------------------|------------------------------|-----------|-------------------------------------------|
| Company                      | LOTUS OPERATING COMPANY, LLC |           |                                           |
| Well                         | ROSE #2                      |           |                                           |
| Field                        |                              |           |                                           |
| County                       | BARBER                       | State     | KANSAS                                    |
| Location:                    | API # : 15-007-23590         |           | Other Services<br>CDL/CNL/PE<br>MICRO/DIL |
| SEC 25 TWP 34S RGE 12W       |                              | Elevation |                                           |
| Permanent Datum              | GROUND LEVEL                 | Elevation | 1398                                      |
| Log Measured From            | KELLY BUSHING 8' A.G.L.      | K.B.      | 1406                                      |
| Drilling Measured From       | KELLY BUSHING                | D.F.      |                                           |
|                              |                              | G.L.      | 1398                                      |
| Date                         | 9-29-10                      |           |                                           |
| Run Number                   | TWO                          |           |                                           |
| Depth Driller                | 5252                         |           |                                           |
| Depth Logger                 | 5252                         |           |                                           |
| Bottom Logged Interval       | 5244                         |           |                                           |
| Top Log Interval             | 3600                         |           |                                           |
| Casing Driller               | 282                          |           |                                           |
| Casing Logger                | 282                          |           |                                           |
| Bit Size                     | 7.875                        |           |                                           |
| Type Fluid in Hole           | CHEMICAL MUD                 |           |                                           |
| Density / Viscosity          | 9.3 / 44                     |           |                                           |
| pH / Fluid Loss              | 9.5 / 10.4                   |           |                                           |
| Source of Sample             | FLOWLINE                     |           |                                           |
| Rim @ Meas. Temp             | 0.80 @ 83F                   |           |                                           |
| Rinf @ Meas. Temp            | 0.60 @ 83F                   |           |                                           |
| Rinc @ Meas. Temp            | 0.96 @ 83F                   |           |                                           |
| Source of Rinf / Rinc        | MEASURED                     |           |                                           |
| Rim @ BHT                    | .520 @ 127F                  |           |                                           |
| Time Circulation Stopped     | 3 HOURS                      |           |                                           |
| Time Logger on Bottom        | 2:15 A.M.                    |           |                                           |
| Maximum Recorded Temperature | 127F                         |           |                                           |
| Equipment Number             | 860                          |           |                                           |
| Location                     | HAYS, KS.                    |           |                                           |
| Recorded By                  | RUPP                         |           |                                           |
| Witnessed By                 | TIM HELLMAN                  |           |                                           |

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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: MEDICINE LODGE, 17S, W INTO.

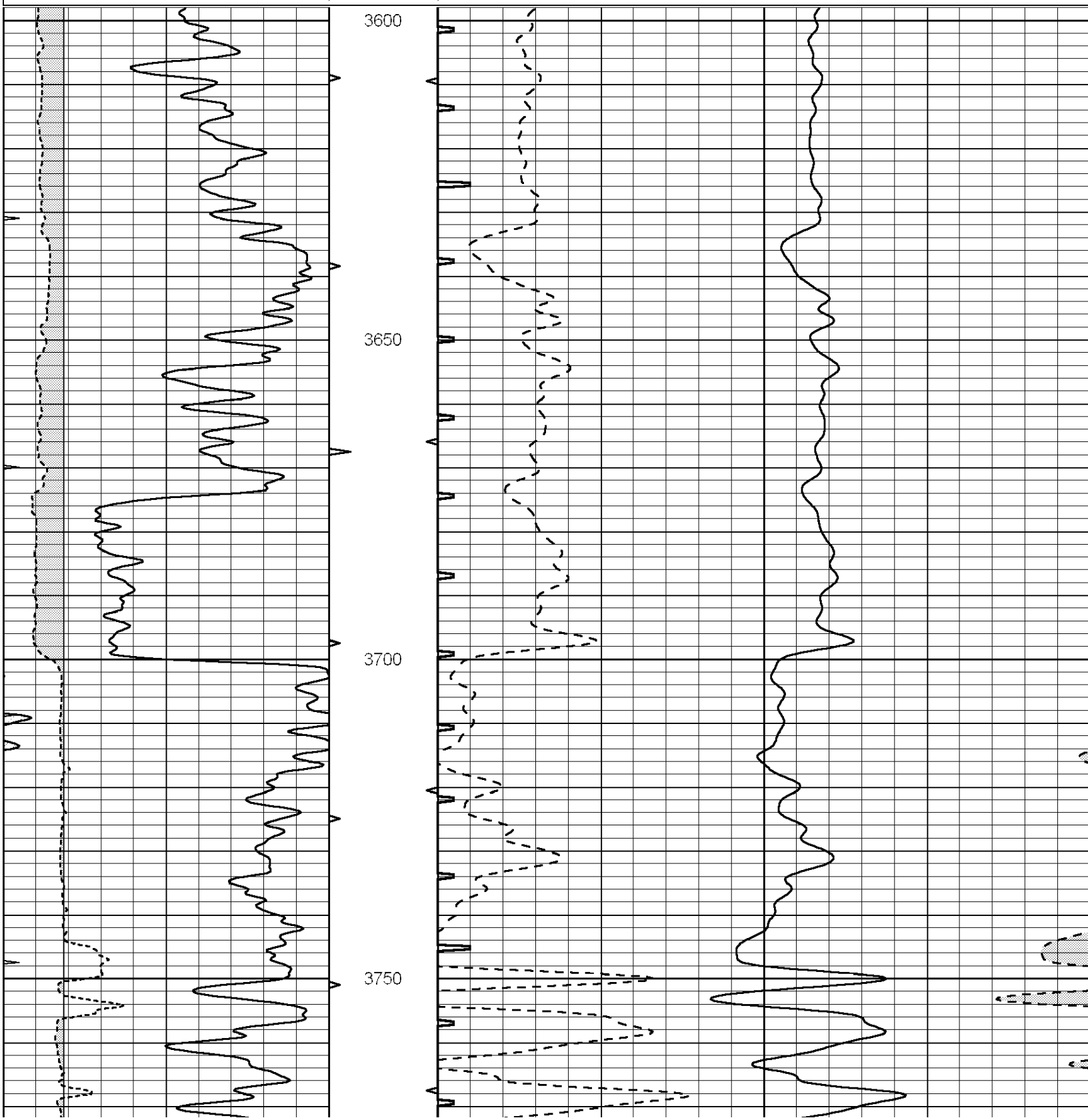


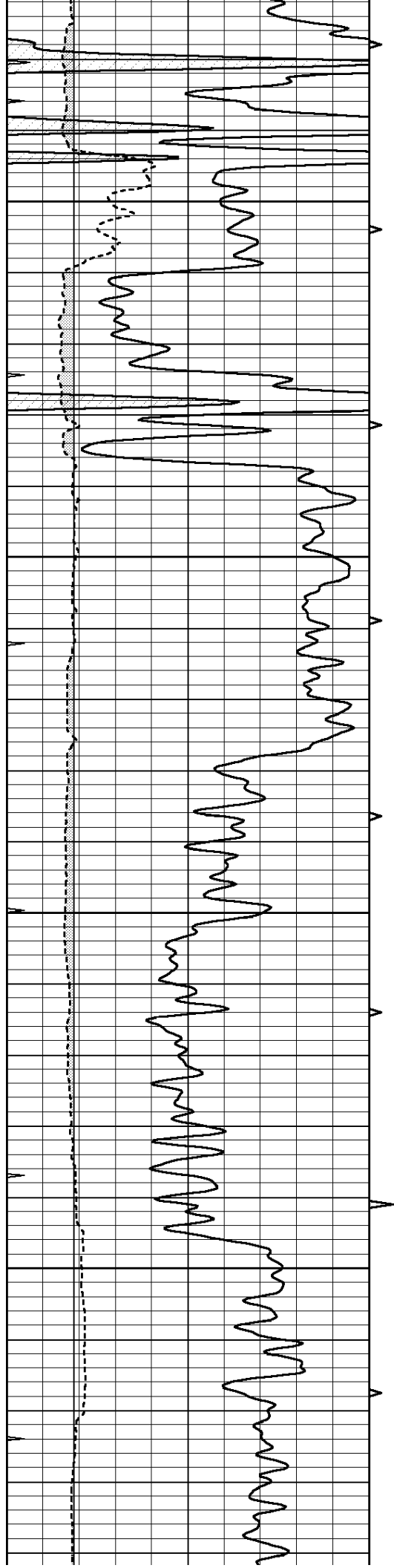
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**Hays,**  
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**MAIN SECTION**

Database File: 005692pdn.db  
 Dataset Pathname: pass5.2  
 Presentation Format: slt  
 Dataset Creation: Wed Sep 29 07:10:52 2010  
 Charted by: Depth in Feet scaled 1:240

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



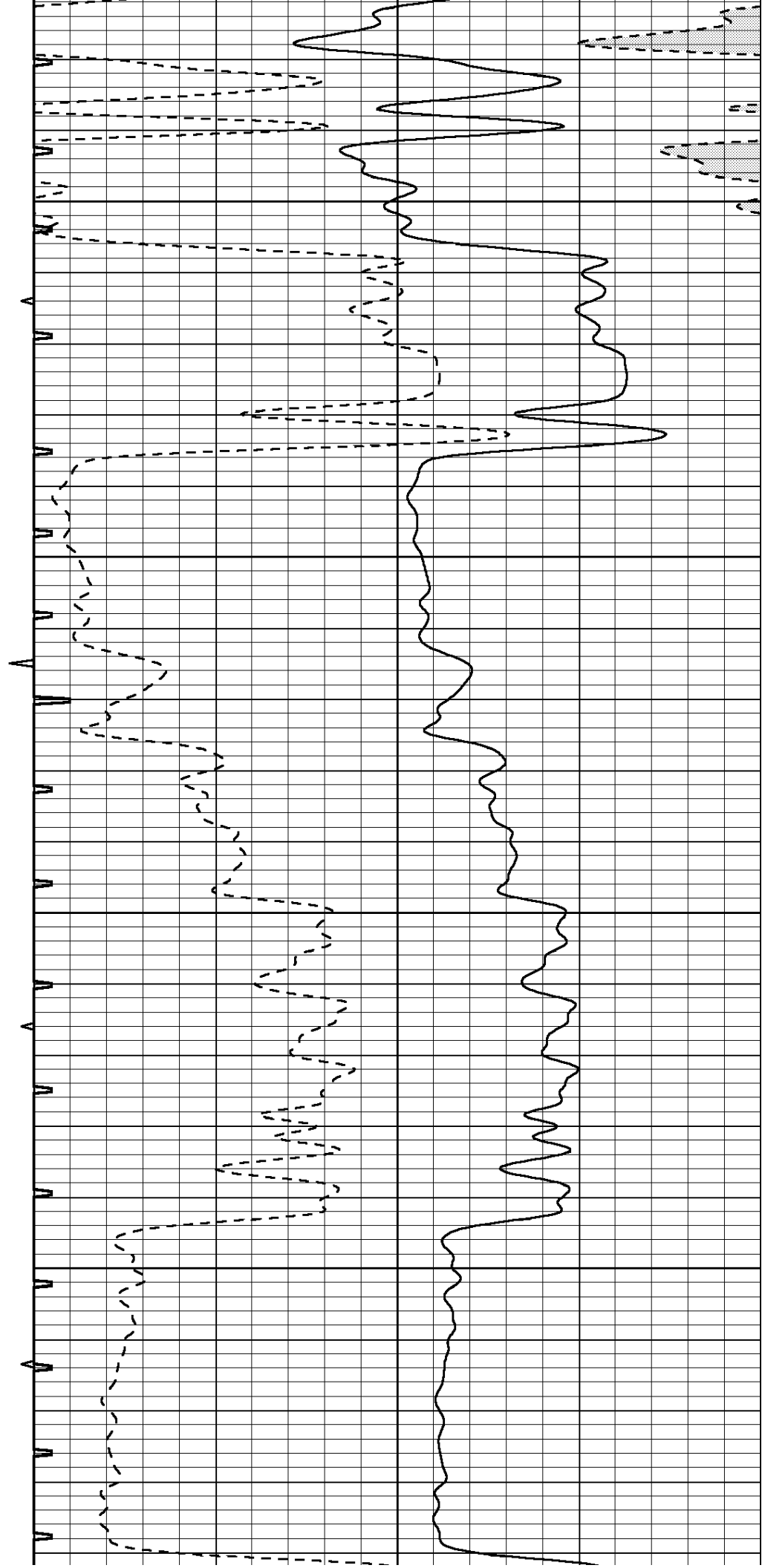


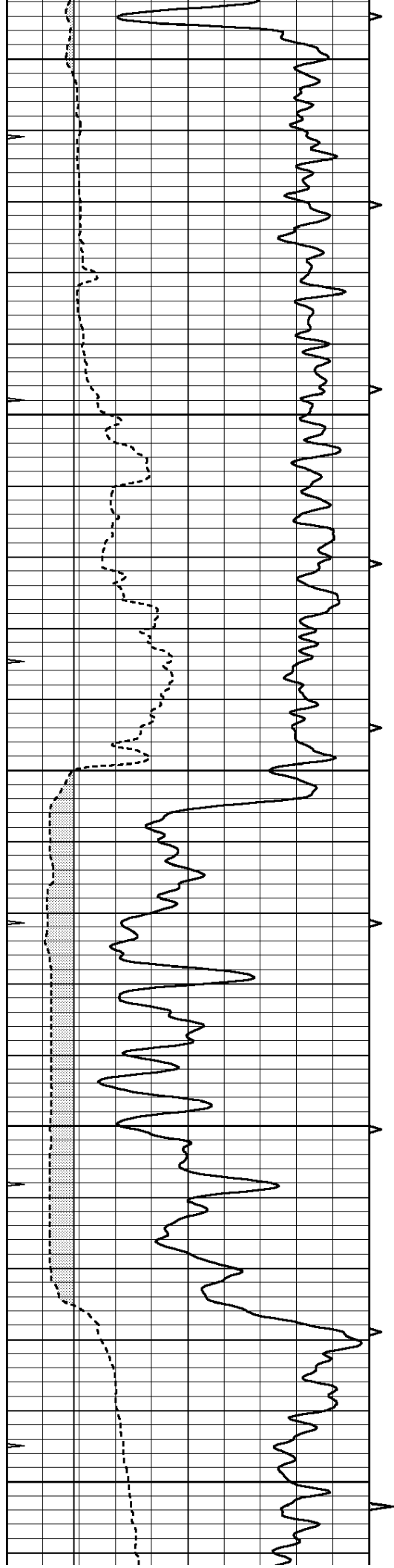
3800

3850

3900

3950





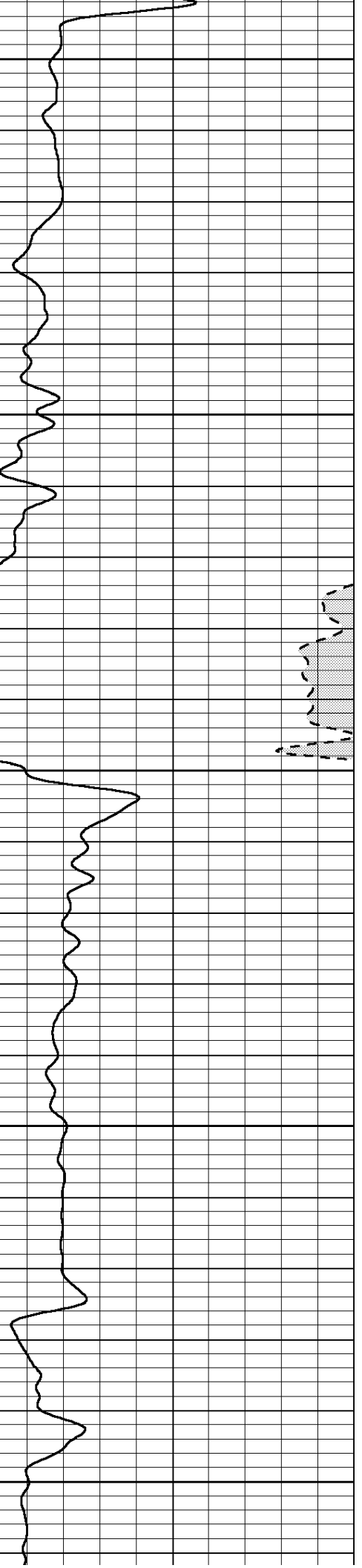
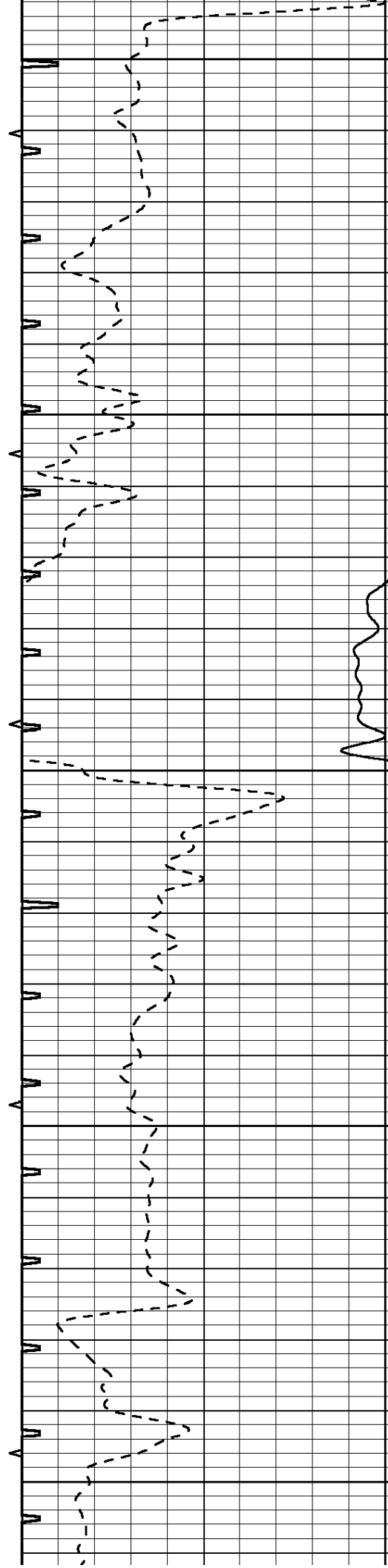
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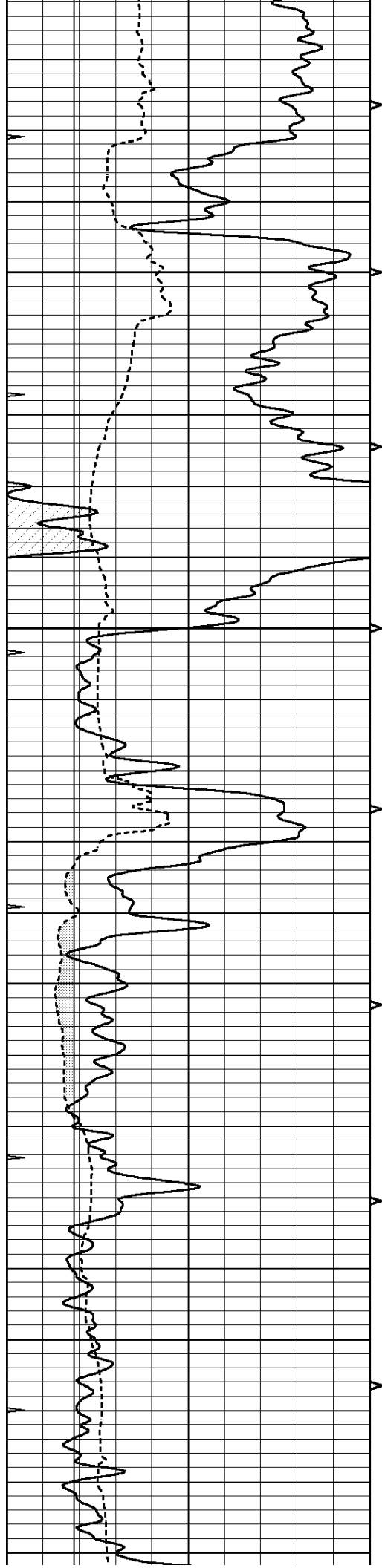
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4100

4150

4200



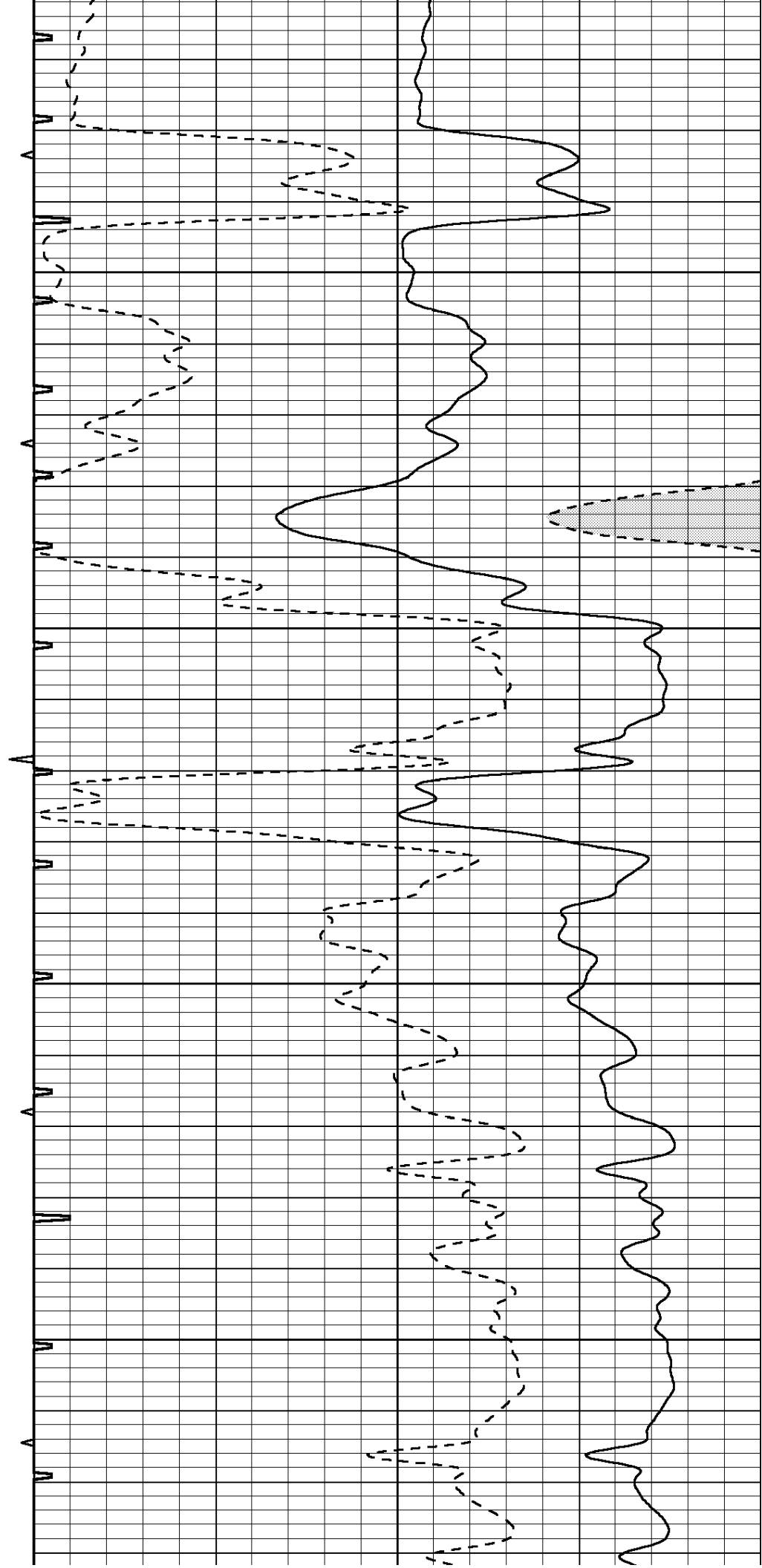


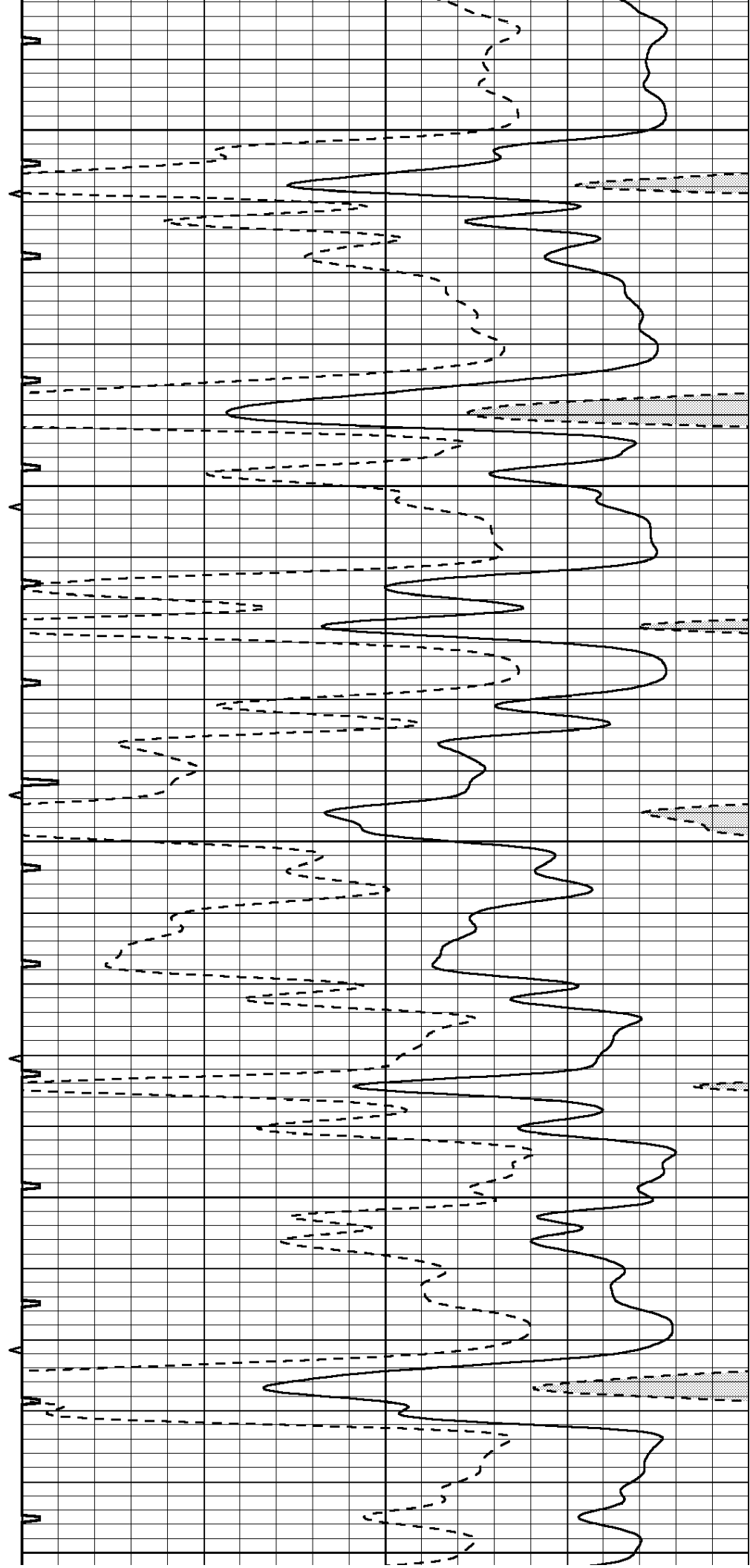
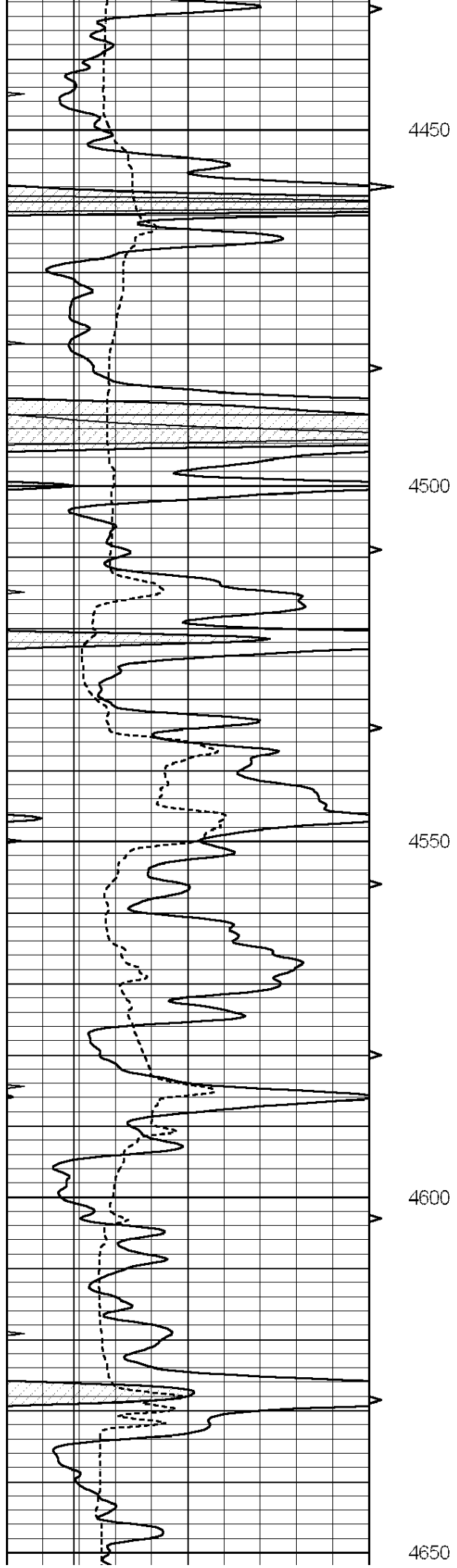
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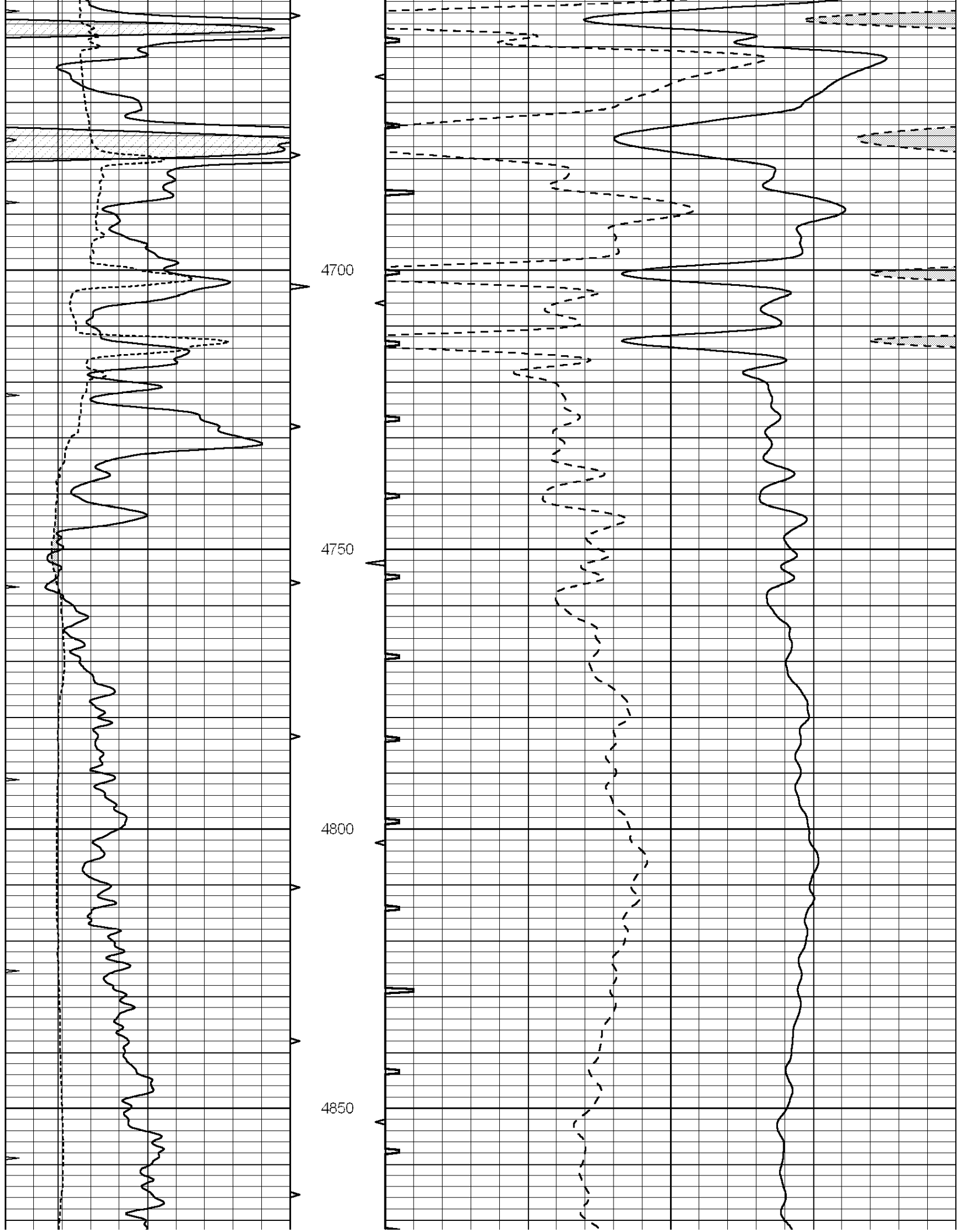
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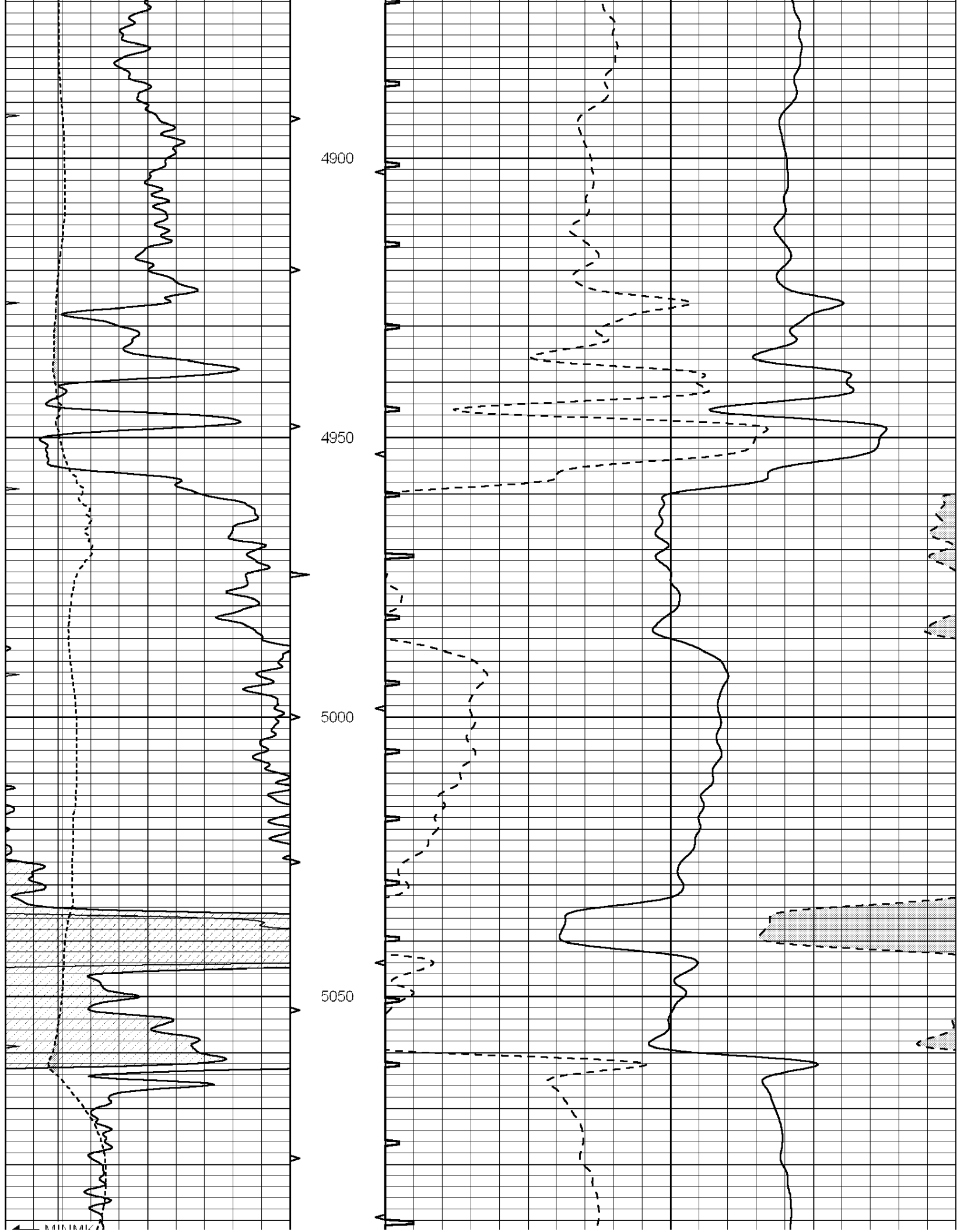
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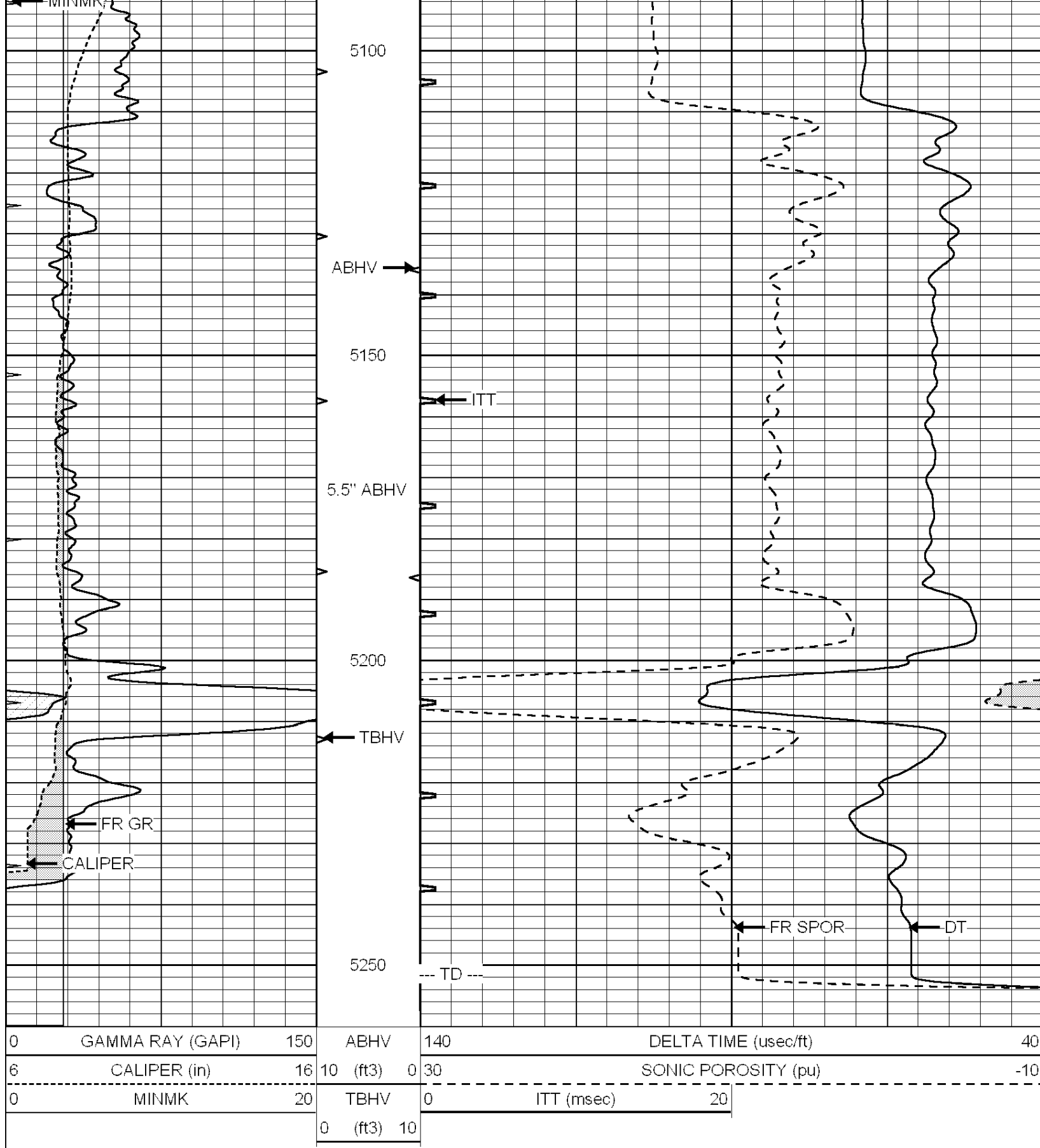












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# REPEAT SECTION

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

