



## MICRO LOG

Company L.D. DRILLING. INC.

Well KAUK #3-17

Field MORGAN

County THOMAS State KANSAS

Location: API # : 15-193-21081-0000

1915' FNL & 1650' FWL

SEC 17 TWP 8S RGE 34W

Permanent Datum GROUND LEVEL Elevation 3216  
Log Measured From KELLY BUSHING 5' A.G.L.  
Drilling Measured From KELLY BUSHING

Other Services  
CDL/CNL  
DIL  
Elevation  
K.B. 3221  
D.F. 3219  
G.L. 3216

Date 1/27/21

Run Number TWO

Depth Driller 5324

Depth Logger 5325

Bottom Logged Interval 5324

Top Log Interval 3500

Casing Driller 8 5/8" @ 326

Casing Logger 326

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 8.9/63

pH / Fluid Loss 10.5/6.4

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.4 @ 60F

Rmf @ Meas. Temp 1.05 @ 60F

Rmc @ Meas. Temp 1.68 @ 60F

Source of Rmf / Rmc MEASURED

Rm @ BHT .65 @ 128F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 1111

Maximum Recorded Temperature 128F

Equipment Number 1523

Location HAYS, KANSAS

Recorded By GUS PFANENSTIEL

Witnessed By KIM SHOEMAKER

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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, KS. (785) 628-6395

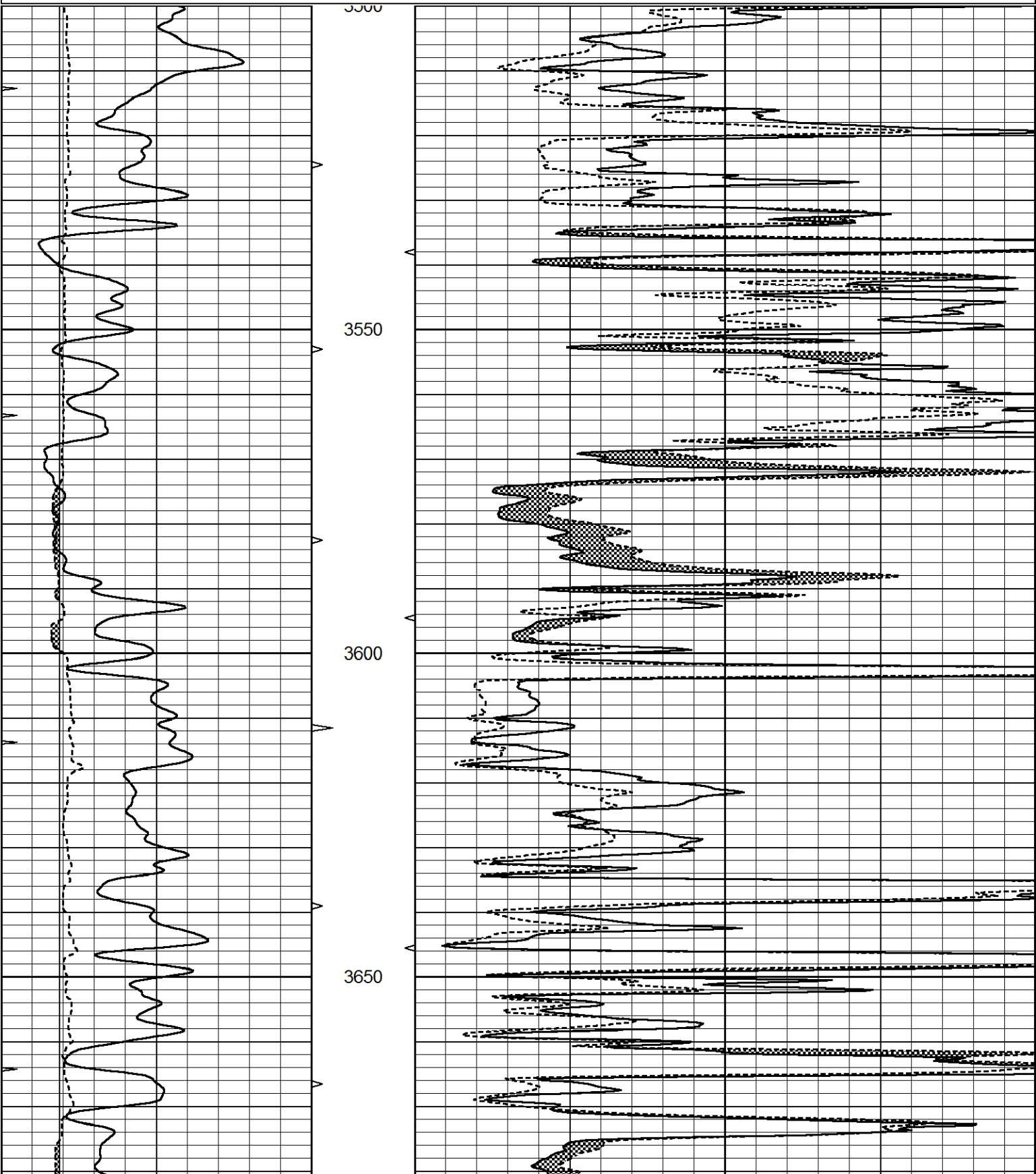
DIRECTIONS: LEVANT 3 EAST TO ROAD 15, SOUTH OVER INTERSTATE,  
WEST INTO.

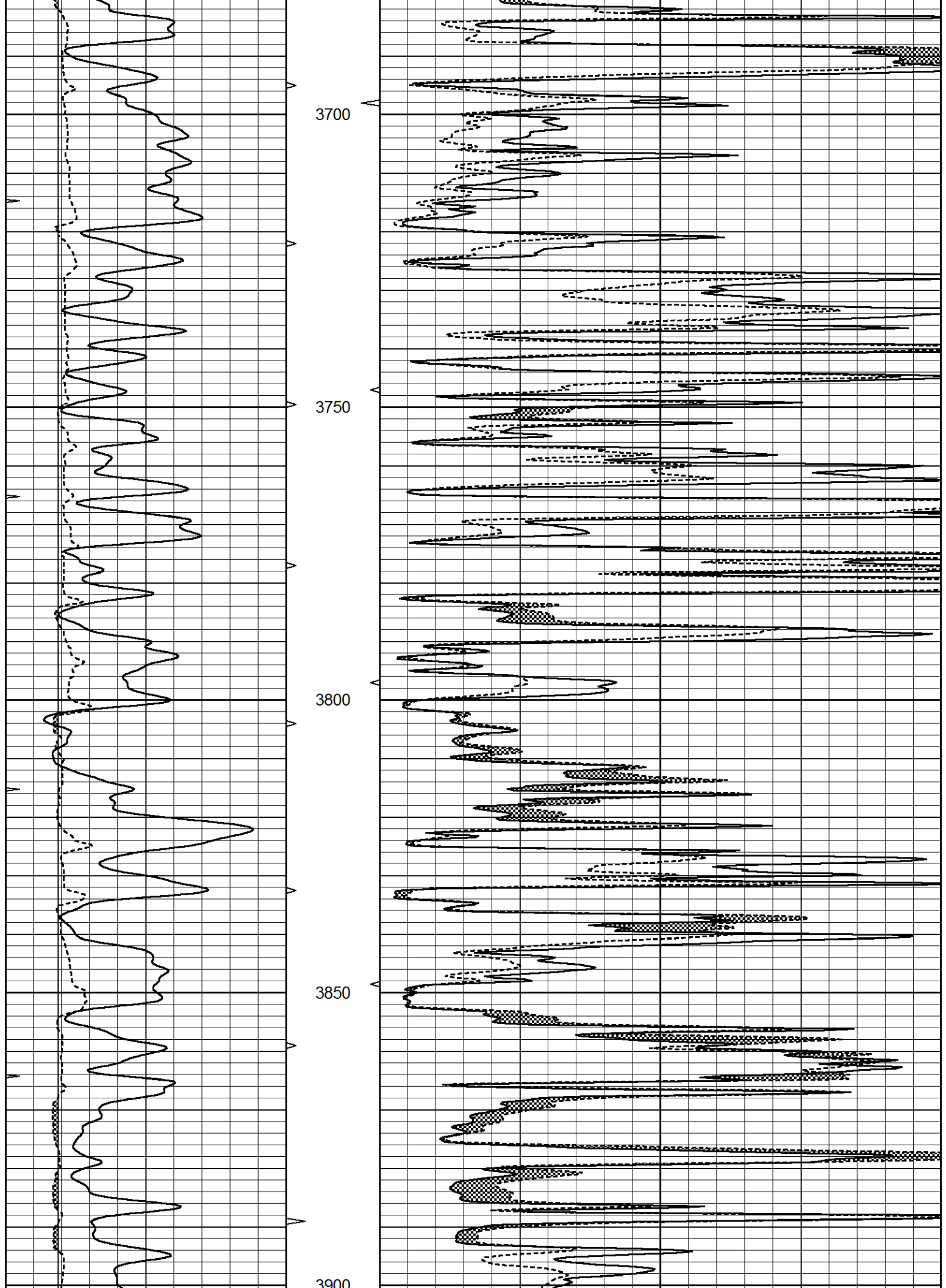


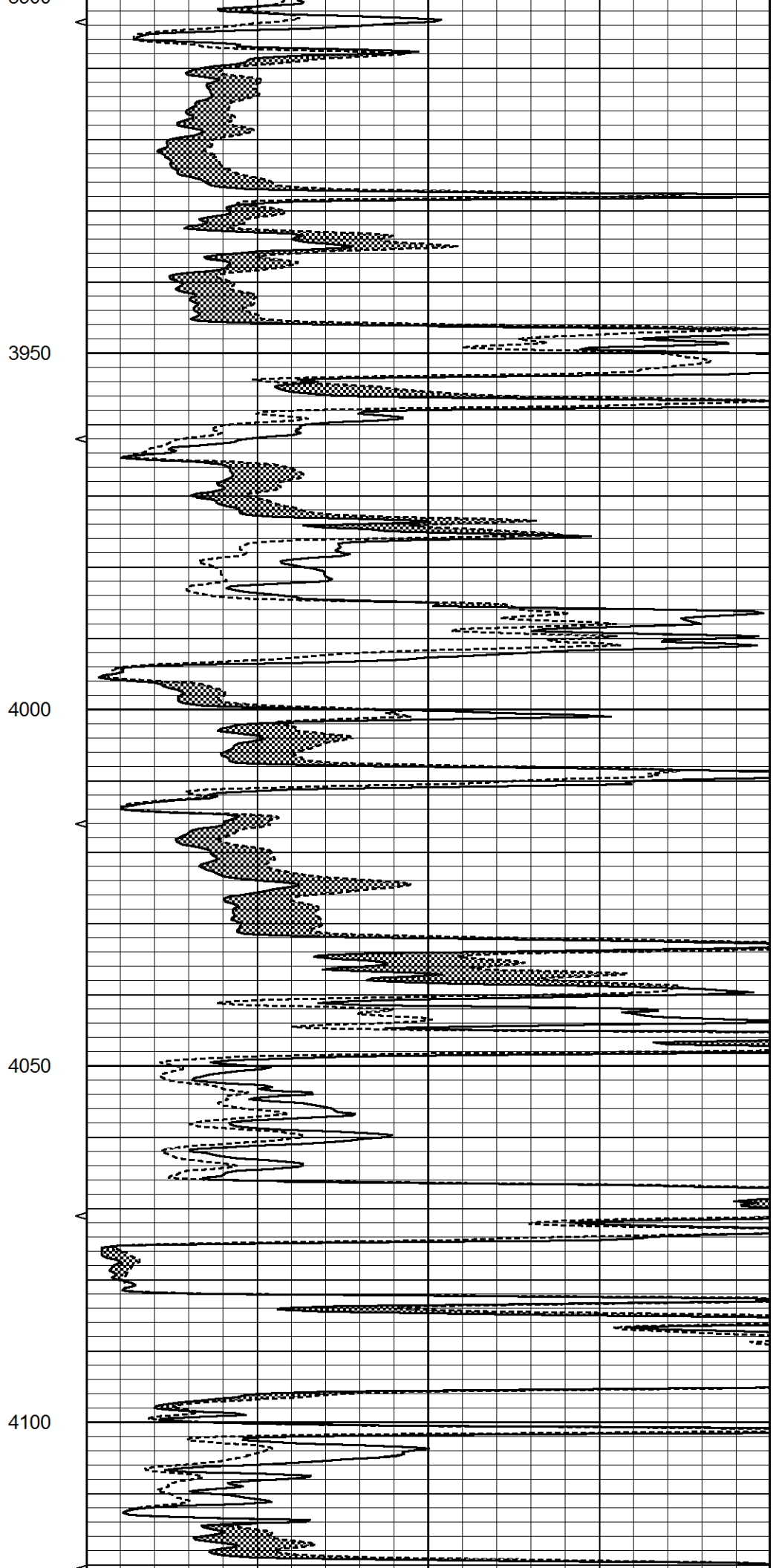
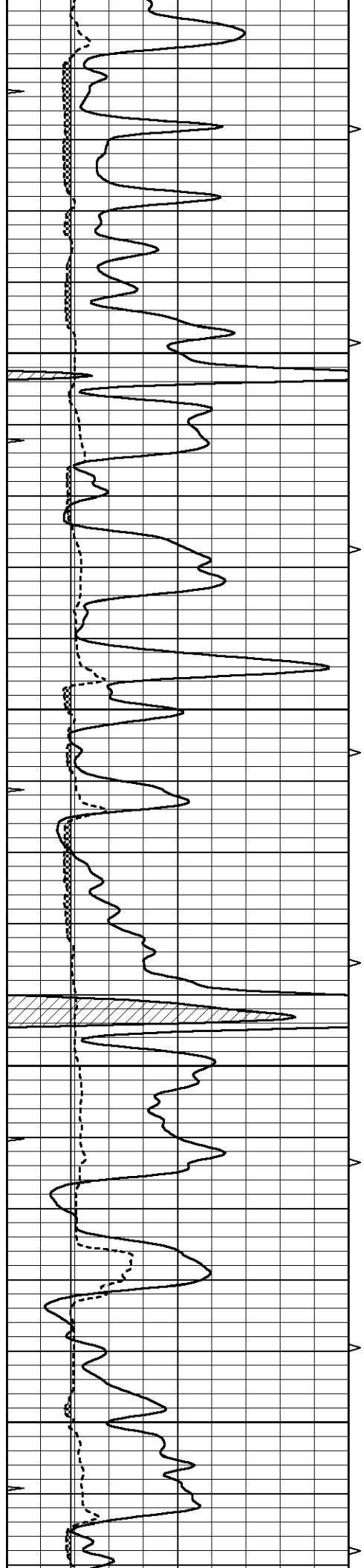
# MAIN PASS

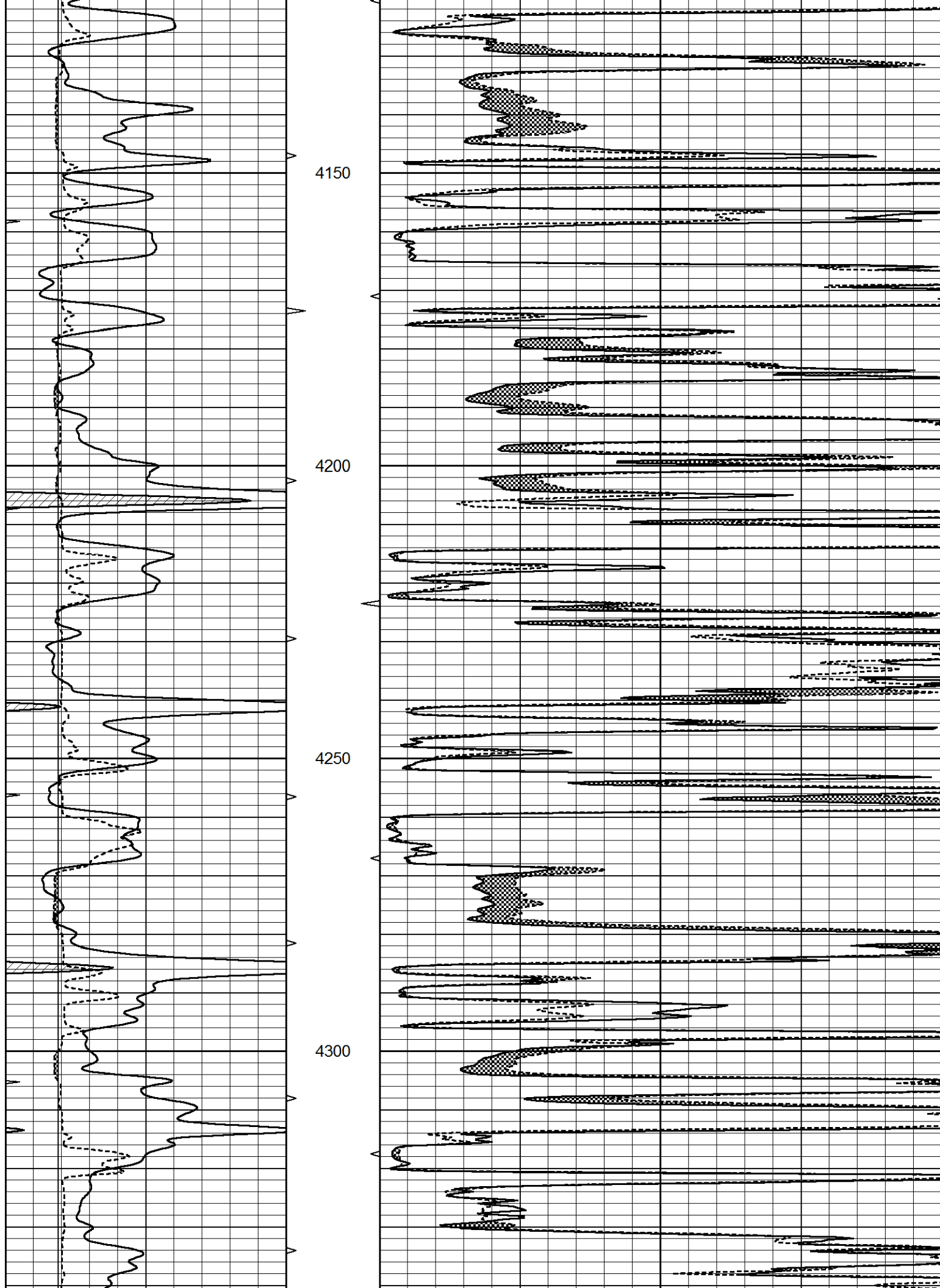
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|---------------------|----------------------------|
| Database File       | 5043ddn.db                 |
| Dataset Pathname    | pass5.1                    |
| Presentation Format | _micro                     |
| Dataset Creation    | Wed Jan 27 18:08:25 2021   |
| Charted by          | Depth in Feet scaled 1:240 |

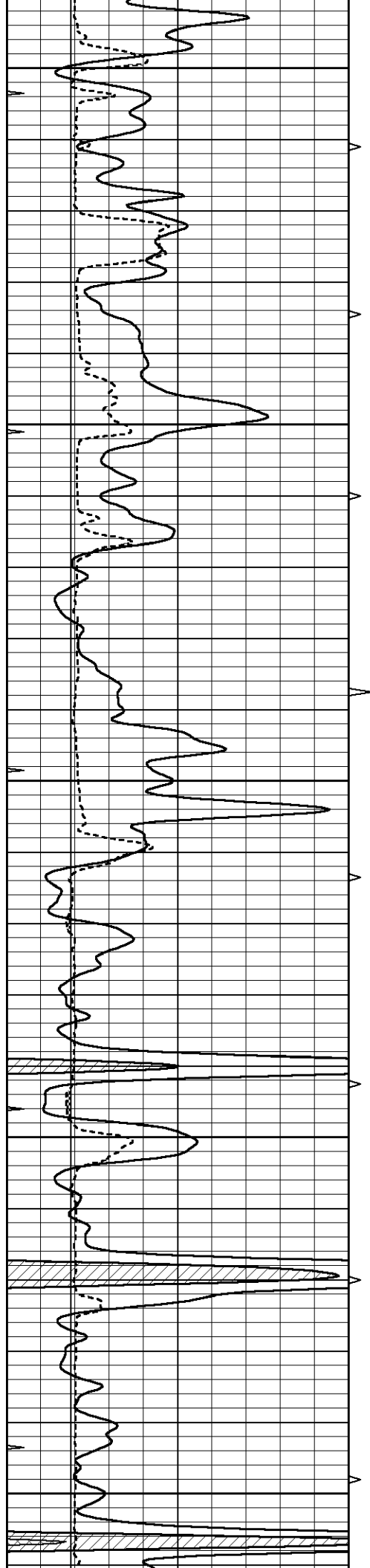
|   |                  |     |          |    |                |    |
|---|------------------|-----|----------|----|----------------|----|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV     | 0  | MEL1.5 (Ohm-m) | 40 |
| 6 | CALIPER (in)     | 16  | 10 (ft3) | 0  | MEL2.0 (Ohm-m) | 40 |
| 0 | MINMK            | 20  | TBHV     |    |                |    |
|   |                  |     | 0 (ft3)  | 10 |                |    |











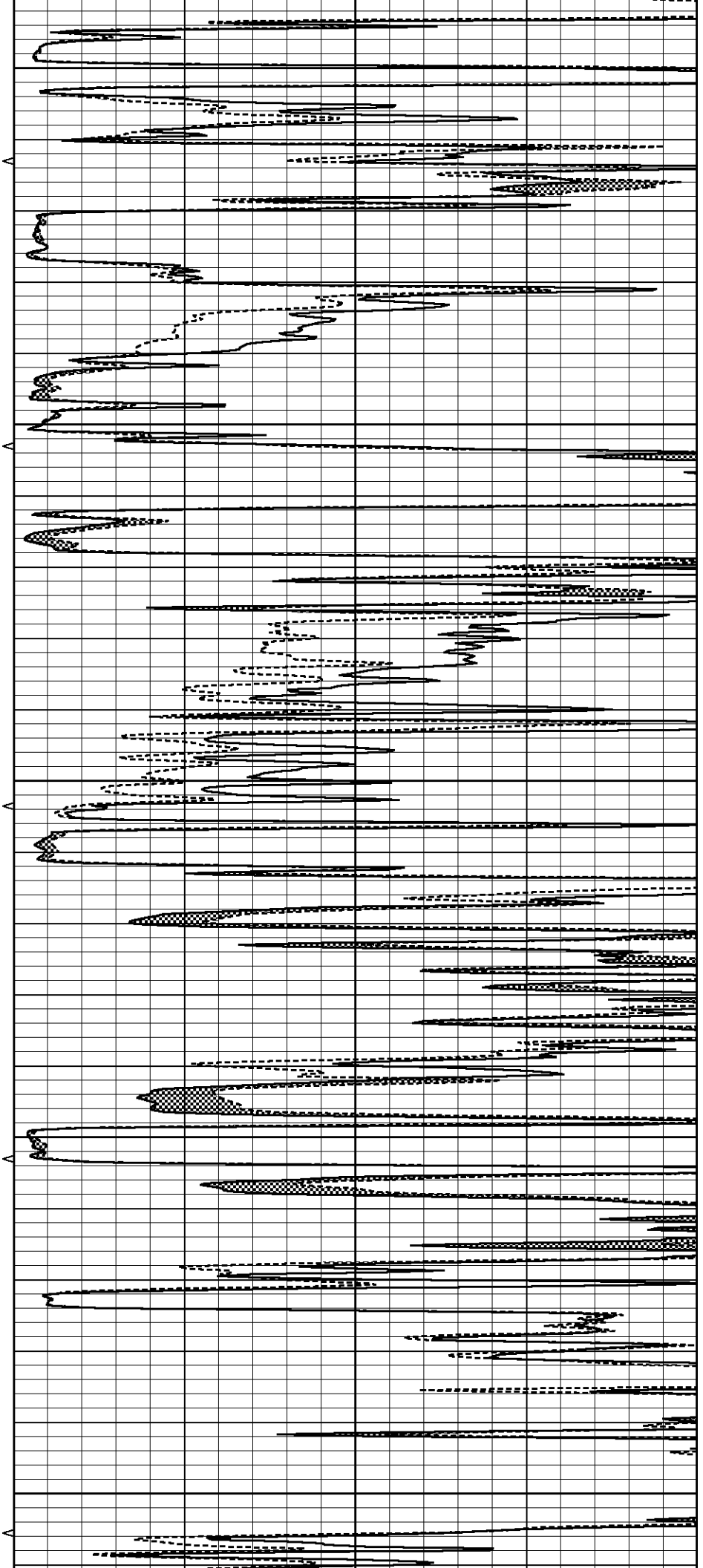
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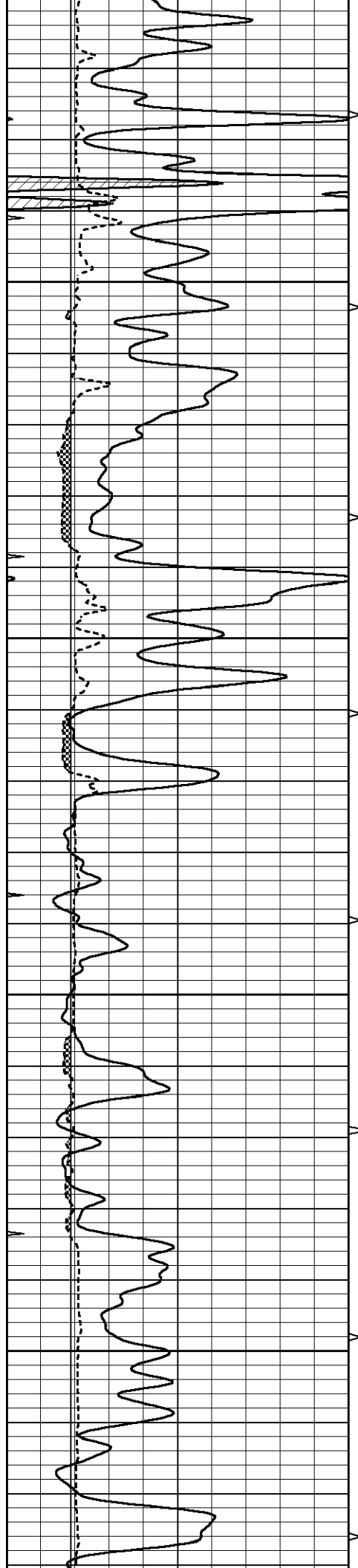
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4450

4500

4550



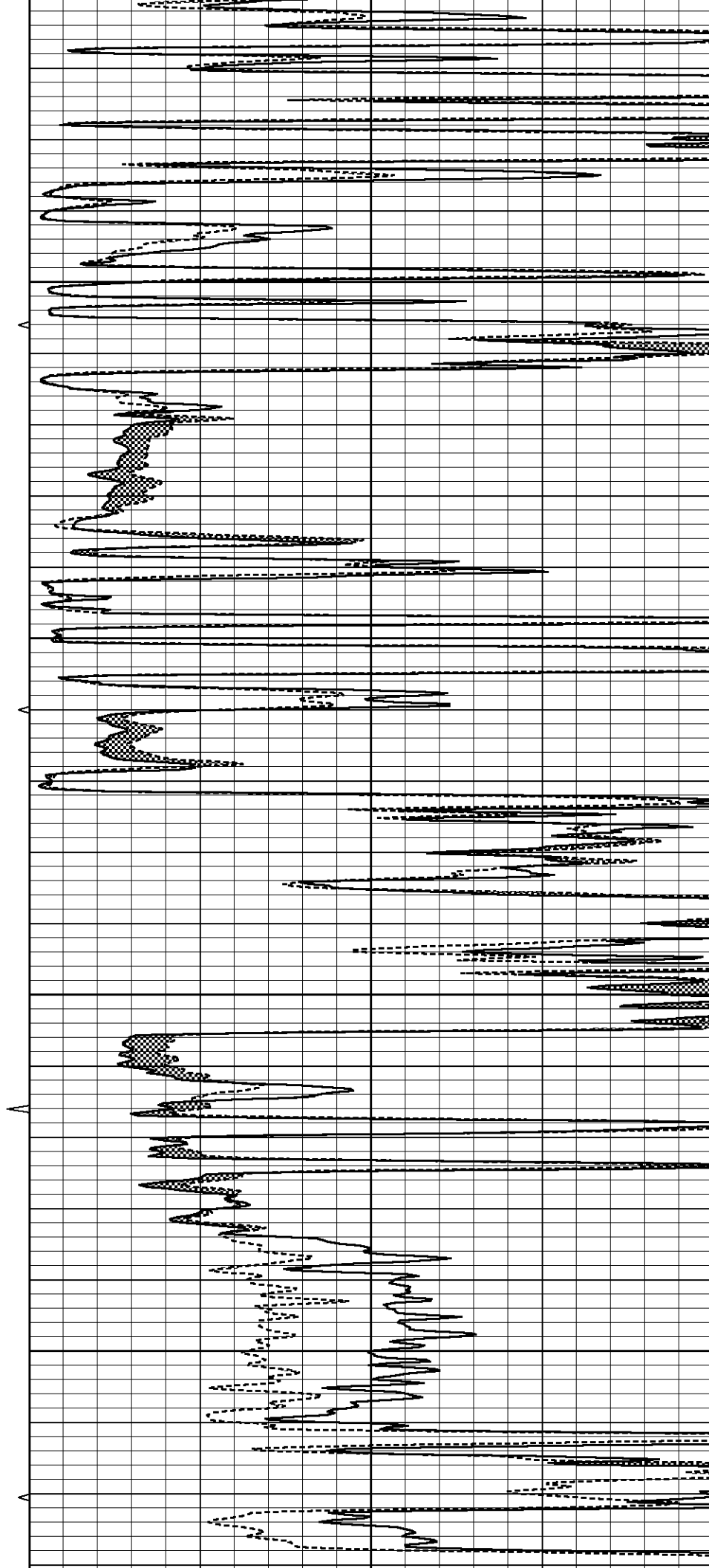


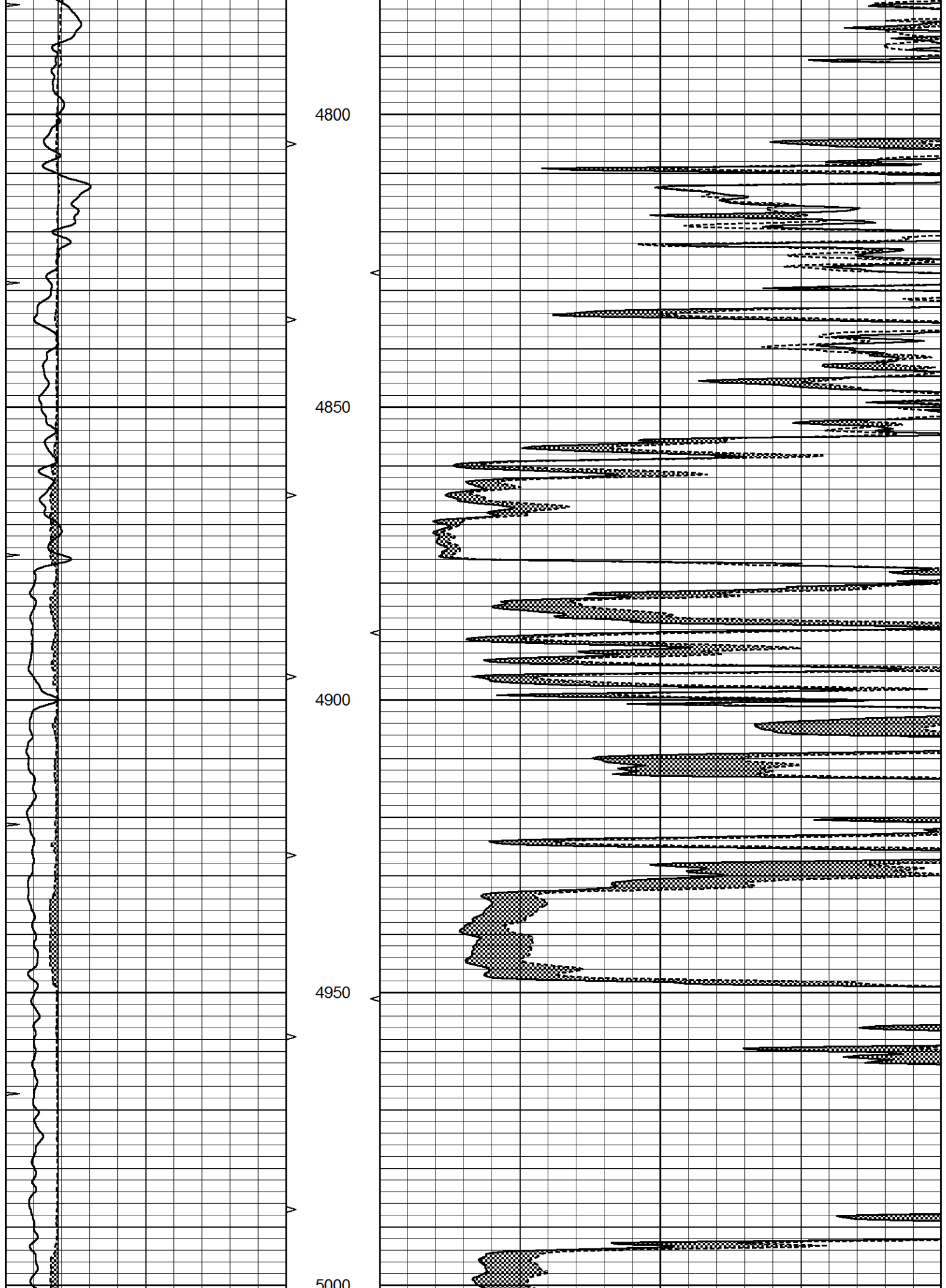
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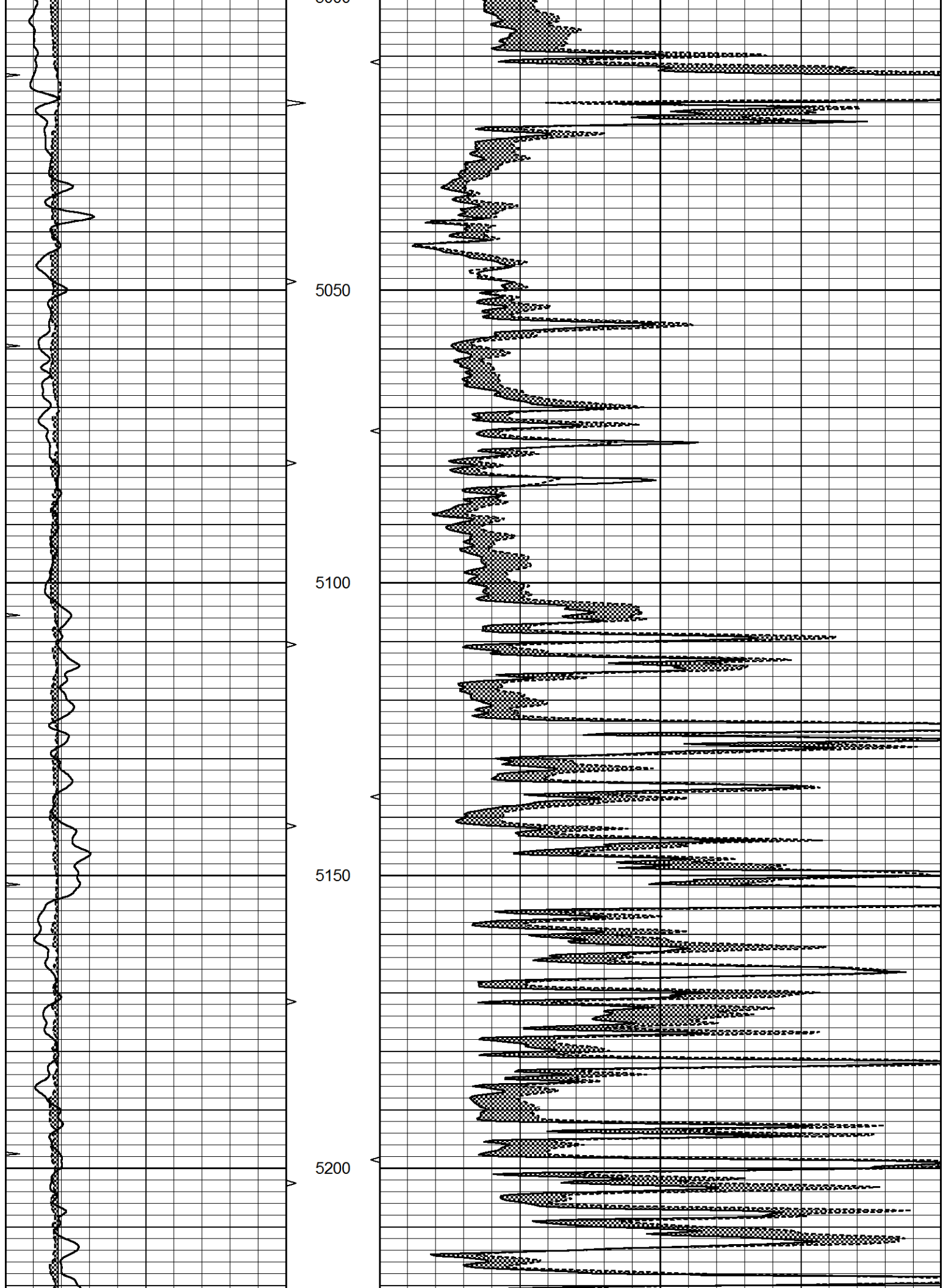
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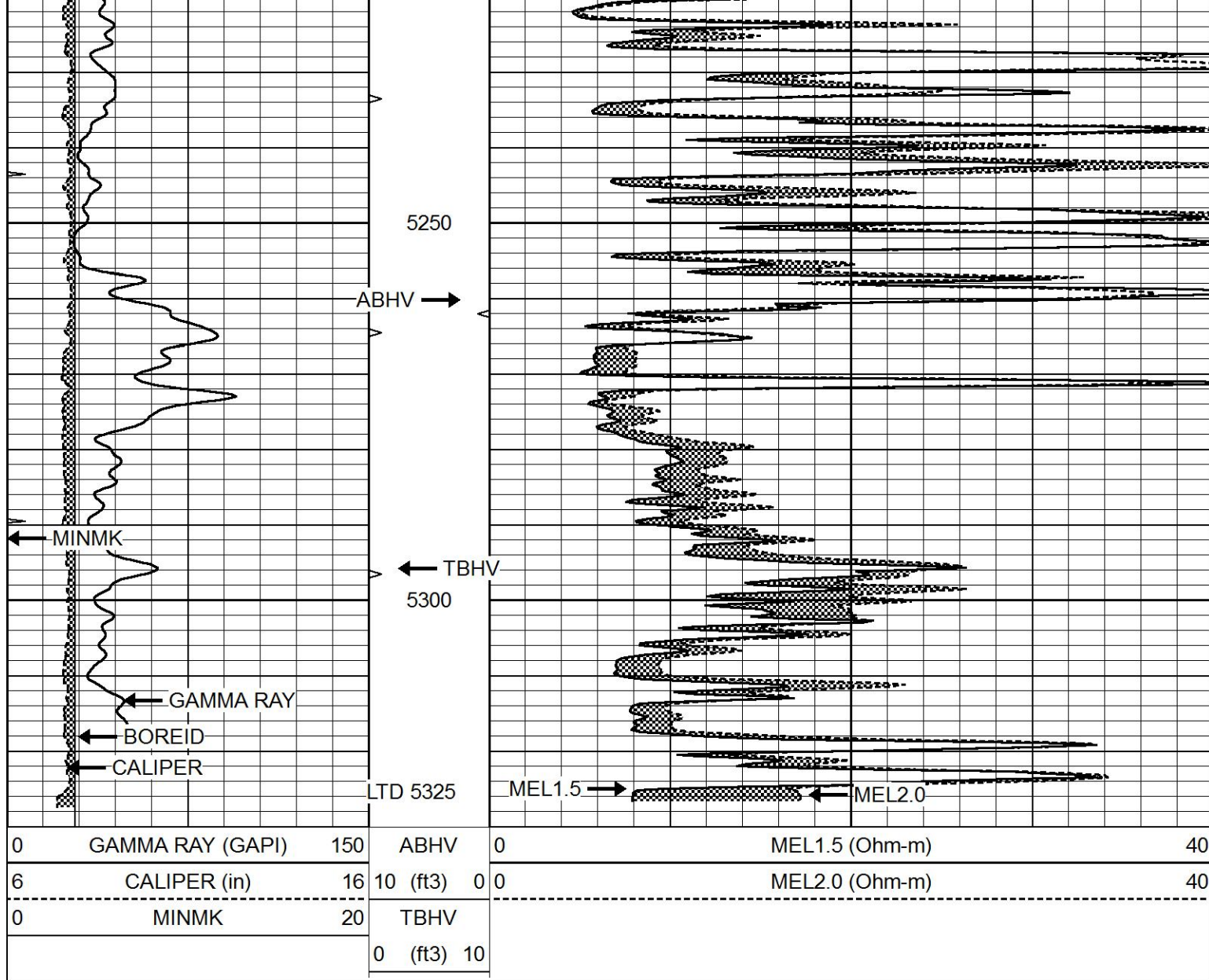
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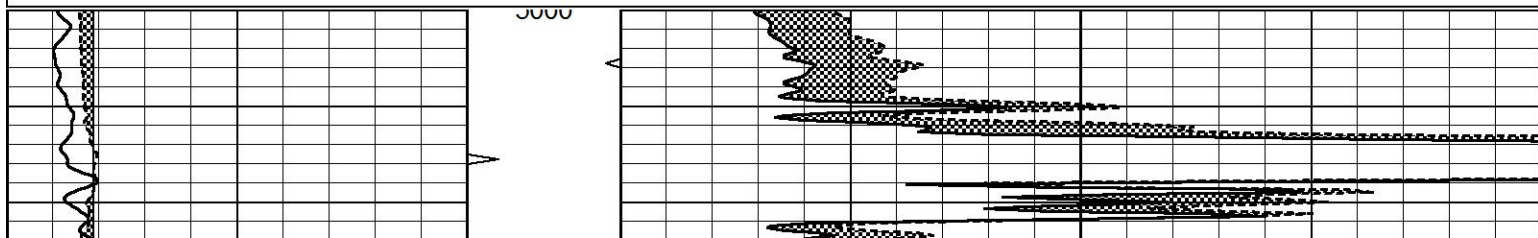


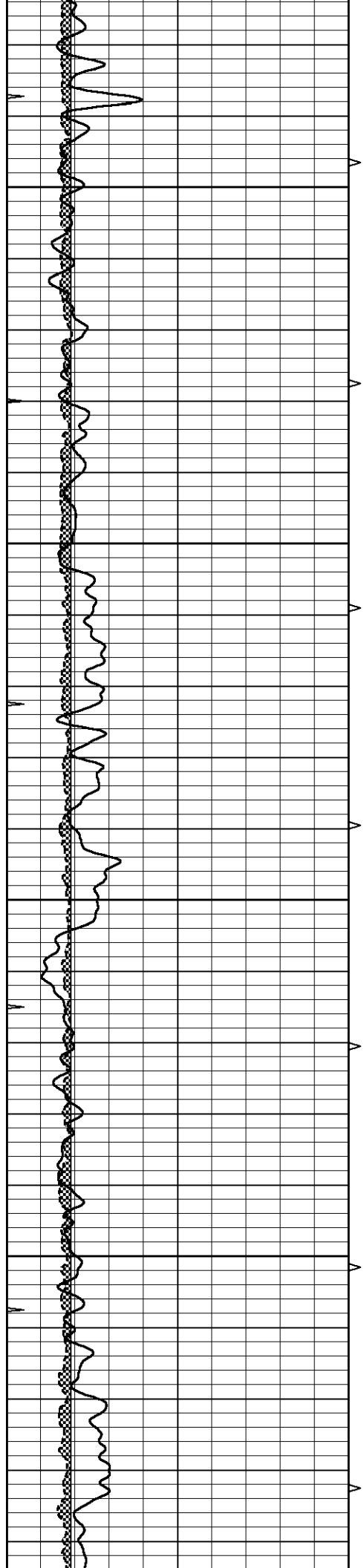


# REPEAT SECTION

Database File 5043ddn.db  
 Dataset Pathname pass4RP  
 Presentation Format \_micro  
 Dataset Creation Wed Jan 27 18:03:52 2021  
 Charted by Depth in Feet scaled 1:240

|   |                  |     |            |   |                |    |
|---|------------------|-----|------------|---|----------------|----|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV       | 0 | MEL1.5 (Ohm-m) | 40 |
| 6 | CALIPER (in)     | 16  | 10 (ft3) 0 | 0 | MEL2.0 (Ohm-m) | 40 |
| 0 | MINMK            | 20  | TBHV       |   |                |    |
|   |                  |     | 0 (ft3) 10 |   |                |    |



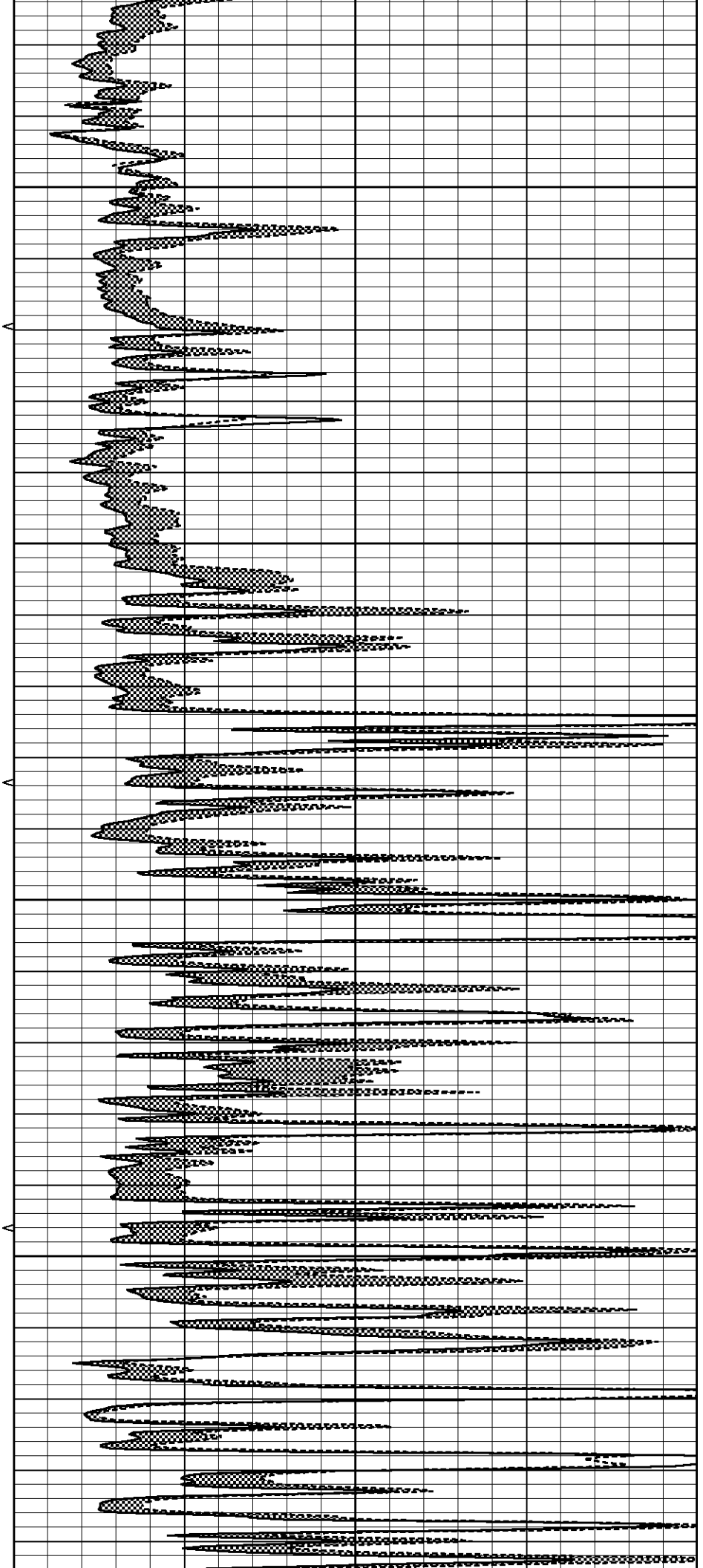


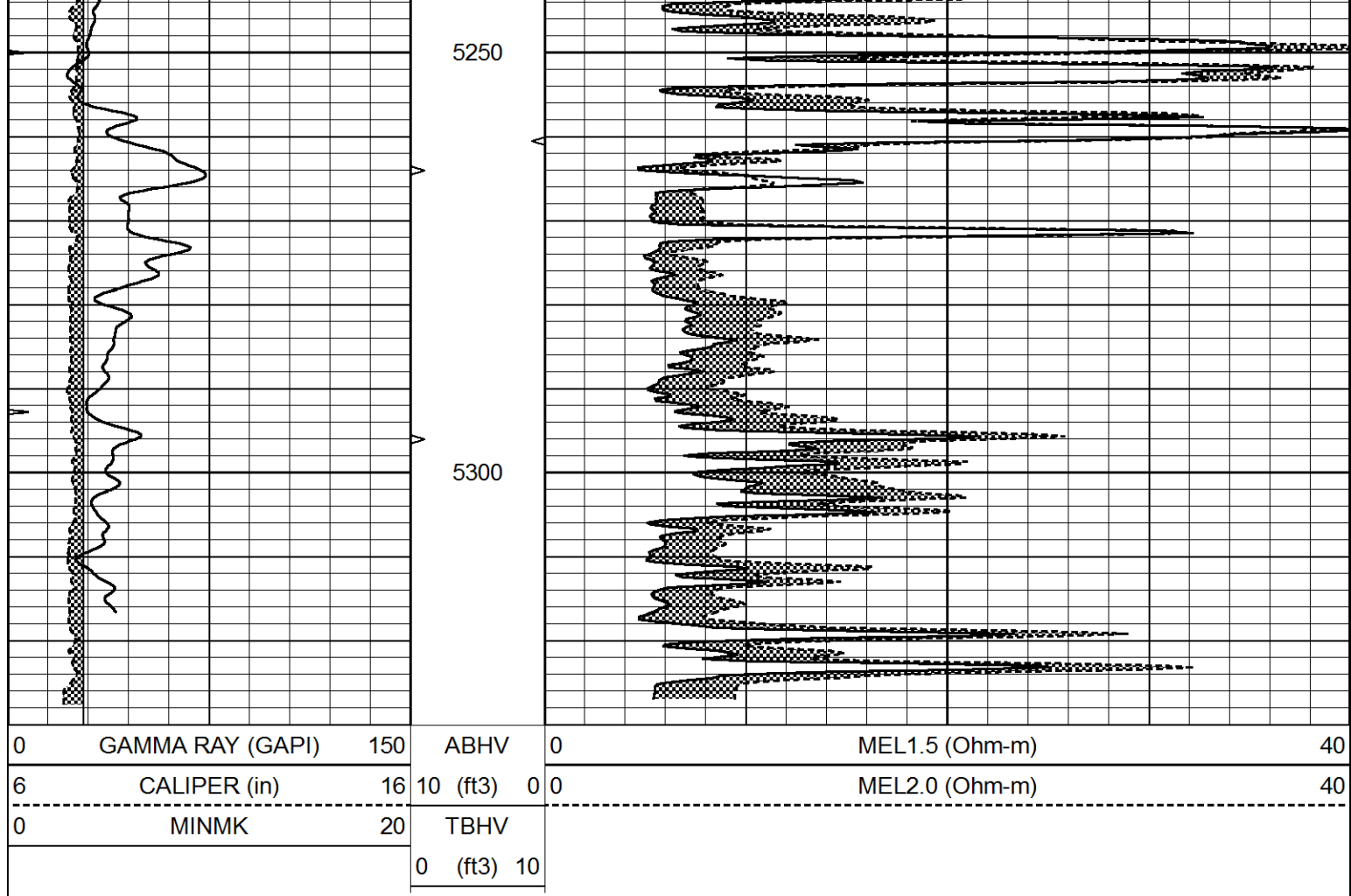
5050

5100

5150

5200





| Calibration Report           |                          |               |  |
|------------------------------|--------------------------|---------------|--|
| Database File                | 5043ddn.db               |               |  |
| Dataset Pathname             | pass4RP                  |               |  |
| Dataset Creation             | Wed Jan 27 18:03:52 2021 |               |  |
| MICRO Calibration Report     |                          |               |  |
| Serial Number:               | Micro1                   |               |  |
| Tool Model:                  | ProbeL                   |               |  |
| Performed:                   | Thu Jan 21 11:24:53 2021 |               |  |
| Caliper Calibration:         | Gain=2.969               | Offset=4.607  |  |
| References                   | Low Cal                  | High Cal      |  |
| Readings                     | 8.500                    | 13.500        |  |
|                              | 0.809                    | 2.493         |  |
| 1.5" Calibration:            | Gain=36.134              | Offset=-1.000 |  |
| References                   | Low Cal                  | High Cal      |  |
| Readings                     | 0.000                    | 20.000        |  |
|                              | 0.004                    | 0.832         |  |
| 2" Calibration:              | Gain=38.000              | Offset=-0.800 |  |
| References                   | Low Cal                  | High Cal      |  |
| Readings                     | 0.000                    | 20.000        |  |
|                              | 0.022                    | 0.793         |  |
| Gamma Ray Calibration Report |                          |               |  |
| Serial Number:               | GR5                      |               |  |
| Tool Model:                  | OPEN                     |               |  |

|                     |                          |          |
|---------------------|--------------------------|----------|
| Performed:          | Thu Jul 30 23:16:16 2020 |          |
| Calibrator Value:   | 1.0                      | GAPI     |
| Background Reading: | 0.0                      | cps      |
| Calibrator Reading: | 1.0                      | cps      |
| Sensitivity:        | 0.9900                   | GAPI/cps |