# COMPENSATED DENSITY/NEUTRON LOG

Company LYNN PACKARD
Well PACKARD #3-22
Field NURSE
County BARBER State KANSAS

Location: API # : 15-007-24355-0000
2970' FSL & 1650' FEL
SE - SW - NE/4
SEC 22 TWP 31S RGE 13W

Other Services
DIL/MEL

Permanent Datum GROUND LEVEL Elevation 1609
Log Measured From KELLY BUSHING 12' A.G.L
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1621
D.F. 1619
G.L. 1609

Company LYNN PACKARD
Well PACKARD #3-22
Field NURSE
County BARBER
State KANSAS

| | | | |
|---|---|---|---|
| Date | 9/8/19 | | |
| Run Number | TWO | | |
| Depth Driller | 4645 | | |
| Depth Logger | 4626 | | |
| Bottom Logged Interval | 4624 | | |
| Top Log Interval | 2400 | | |
| Casing Driller | 8 5/8" @ 230' | | |
| Casing Logger | 228' | | |
| Bit Size | 7 7/8 | | |
| Type Fluid in Hole | CHEMICAL MUD | CHLORIDES 5000 PPM | |
| Density / Viscosity | 9.3/55 | | |
| pH / Fluid Loss | 10.5/9.6 | | |
| Source of Sample | FLOWLINE | | |
| Rm @ Meas. Temp | .80 @ 90F | | |
| Rmf @ Meas. Temp | .60 @ 90F | | |
| Rmc @ Meas. Temp | .96 @ 90F | | |
| Source of Rmf / Rmc | MEASUREMENT | | |
| Rm @ BHT | .59 @ 122F | | |
| Time Circulation Stopped | 2 HOURS | | |
| Time Logger on Bottom | //// | | |
| Maximum Recorded Temperature | 122F | | |
| Equipment Number | 3802 | | |
| Location | HAYS, KANSAS | | |
| Recorded By | JASON CAPPELLUCCI | | |
| Witnessed By | ROGER MARTIN | LYNN PACKARD | |

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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 SERVICES, HAYS, KS. ( 785 ) 628-6395

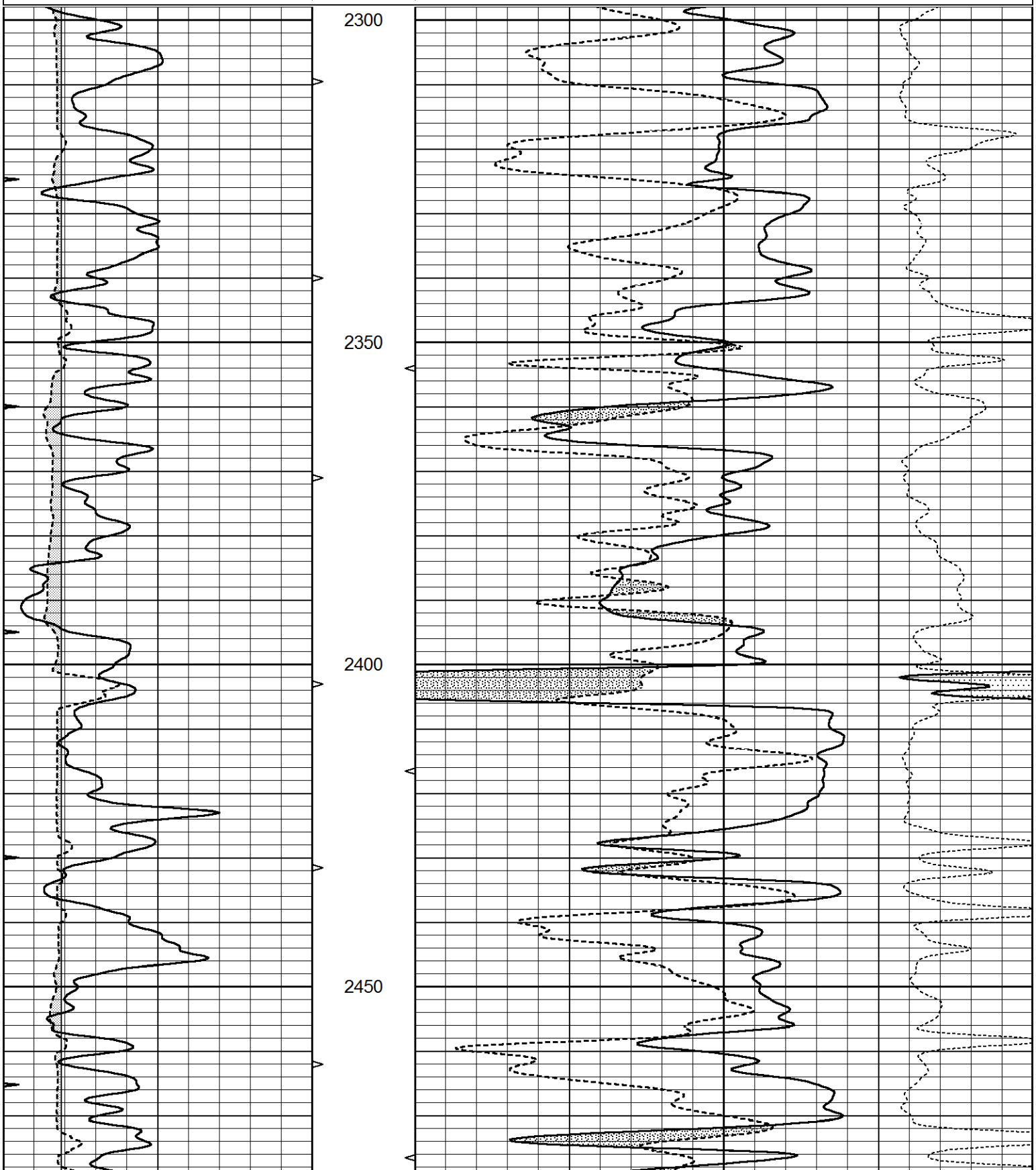
DIRECTIONS

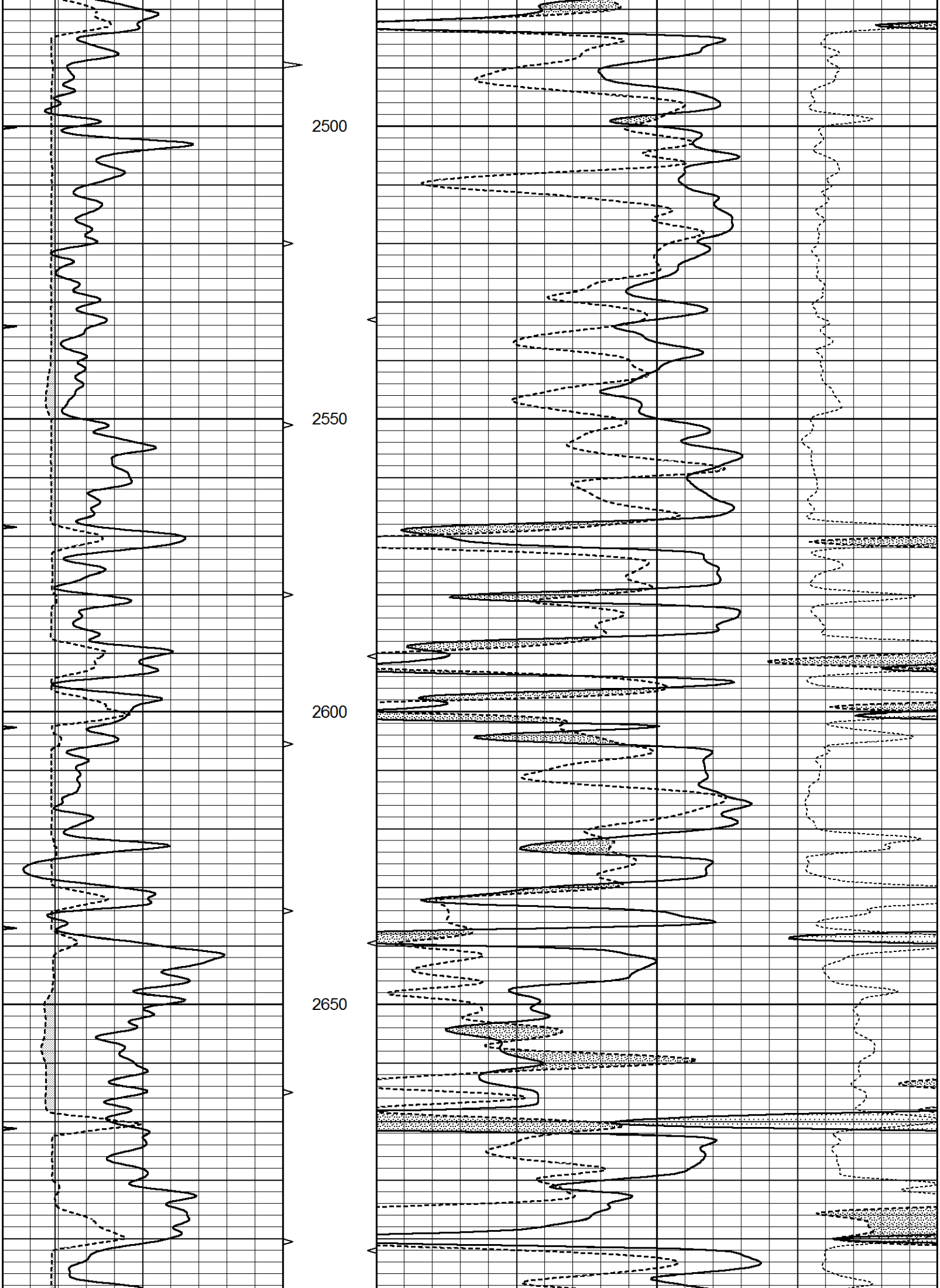
MEDICINE LODGE, KS. - 9 MILES WEST ON SUN CITY BLACKTOP
1/2 MILE NORTH INTO

MAIN SECTION

| | |
|---|---|
| Database File | 3991ddn8.db |
| Dataset Pathname | pass7.1 |
| Presentation Format | _den_neu |
| Dataset Creation | Sun Sep 08 12:03:05 2019 |
| Charted by | Depth in Feet scaled 1:240 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 | AVTX | 30 | COMPENSATED DENSITY (pu) | | -10 |
| 0 | MINMK | 20 | 10 (ft3) 0 | 30 | COMPENSATED NEUTRON (pu) | | -10 |
| 6 | CALIPER (in) | 16 | BVTX | | -0.25 | CORRECTION (g/cc) | 0.25 |
| | | | 0 (ft3) 10 | | | | |

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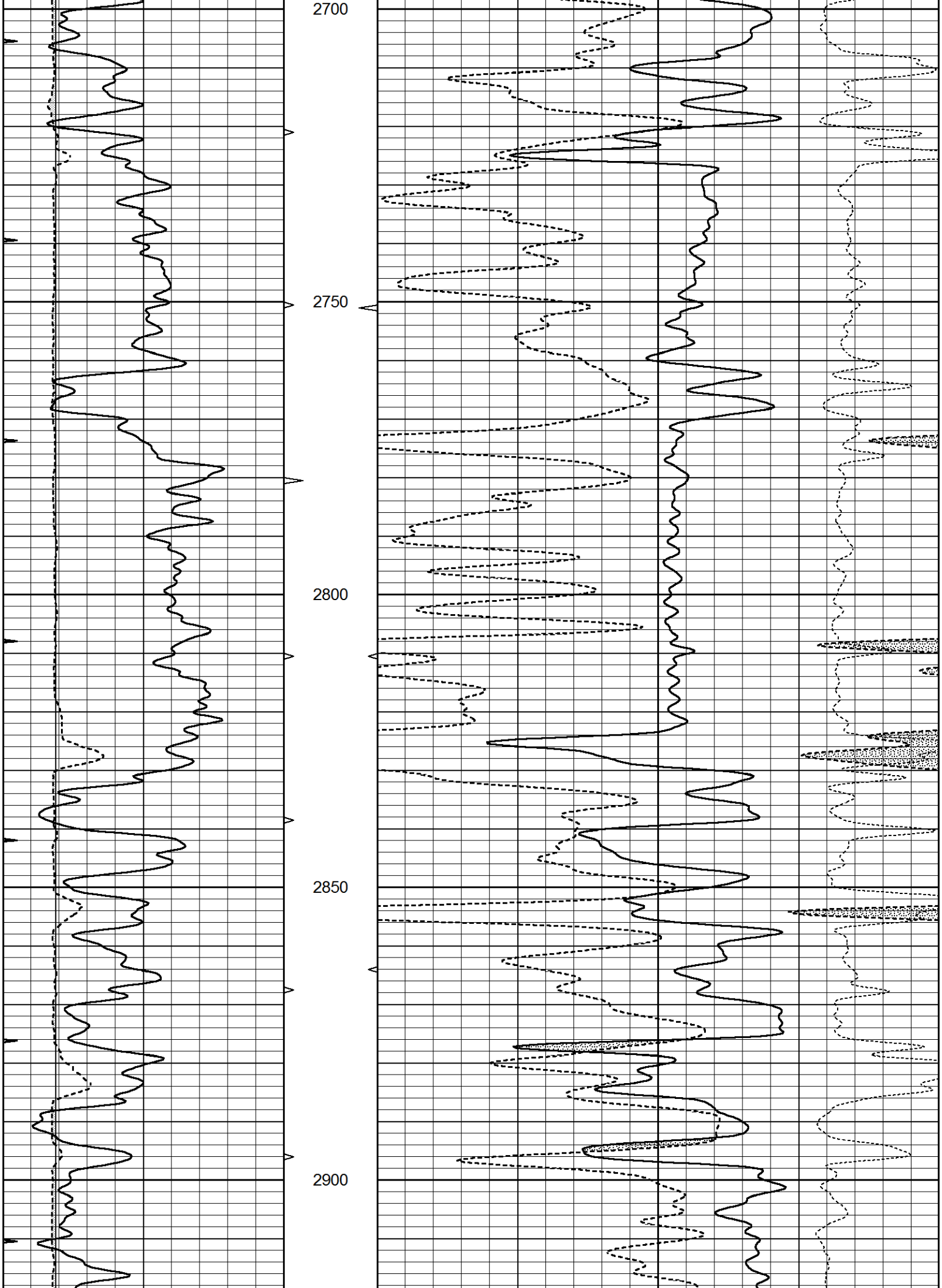
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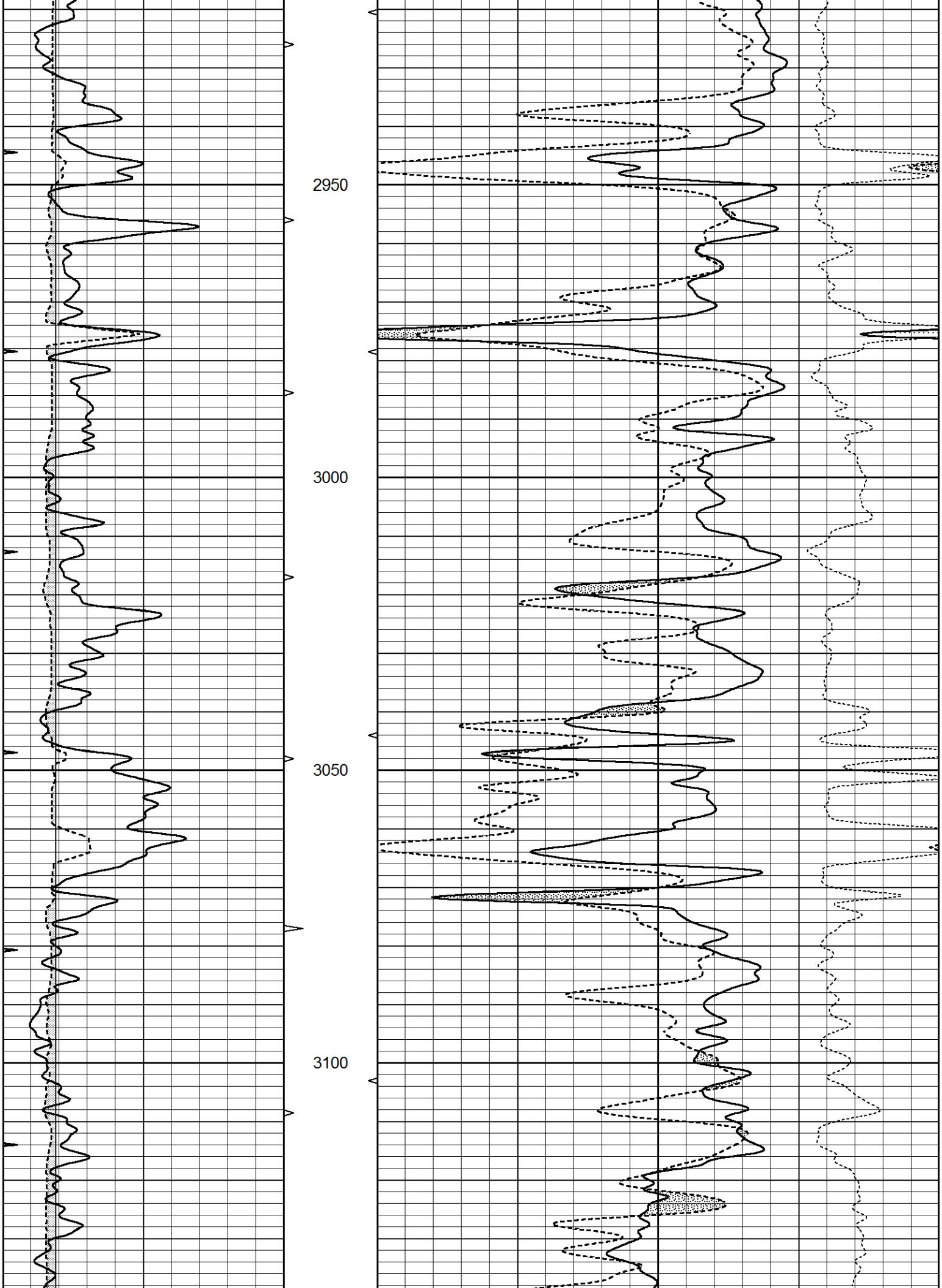
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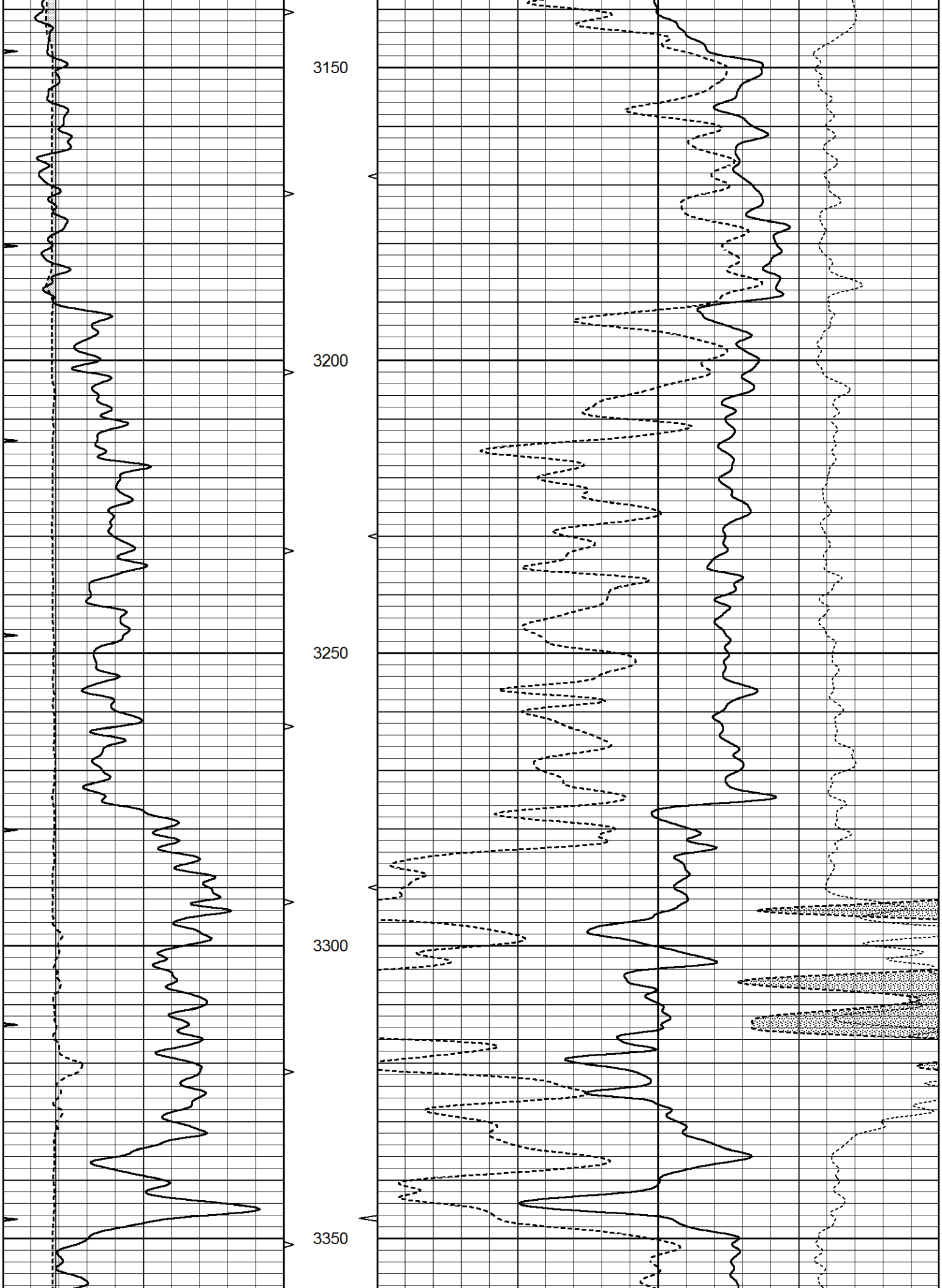
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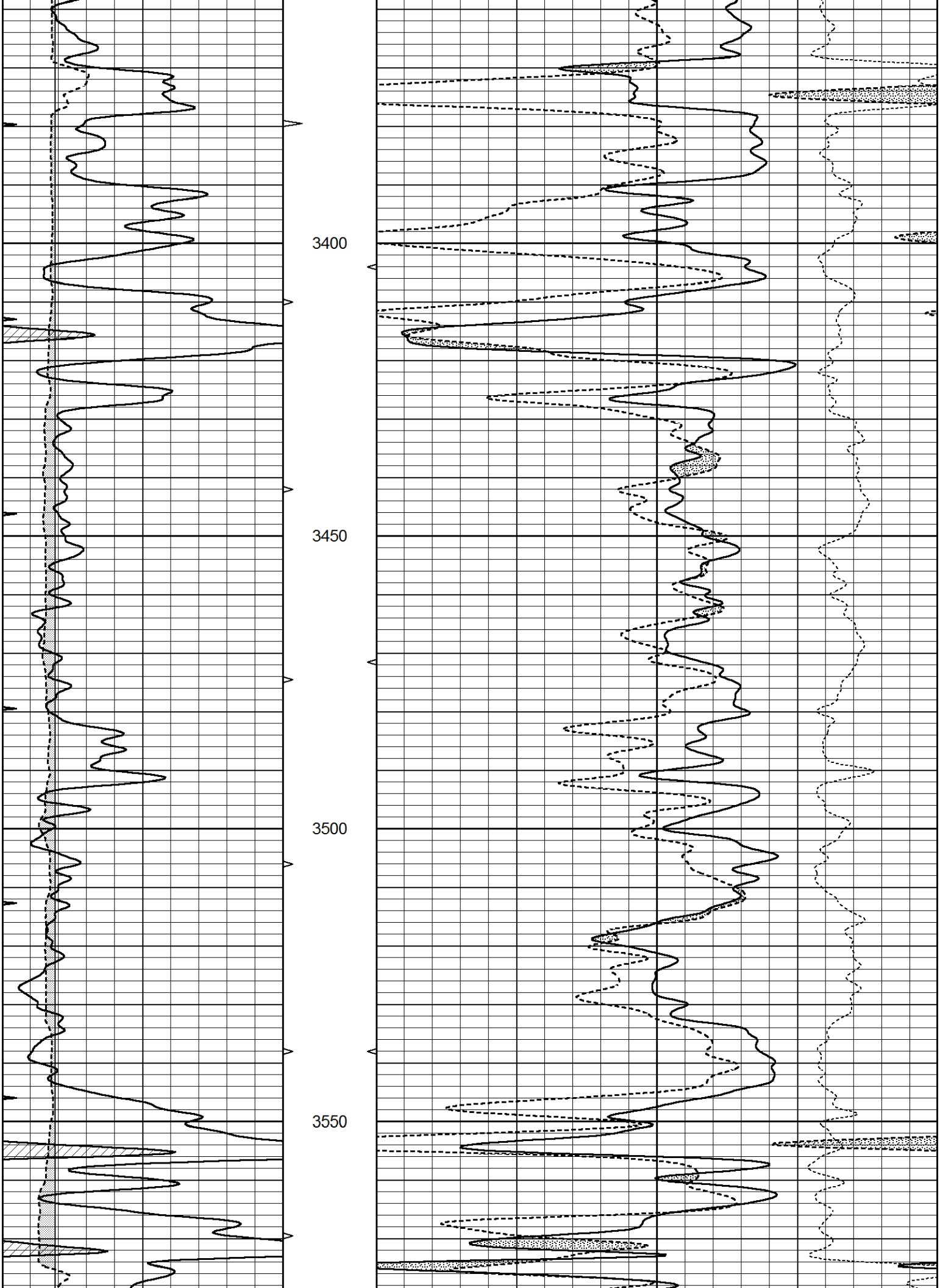
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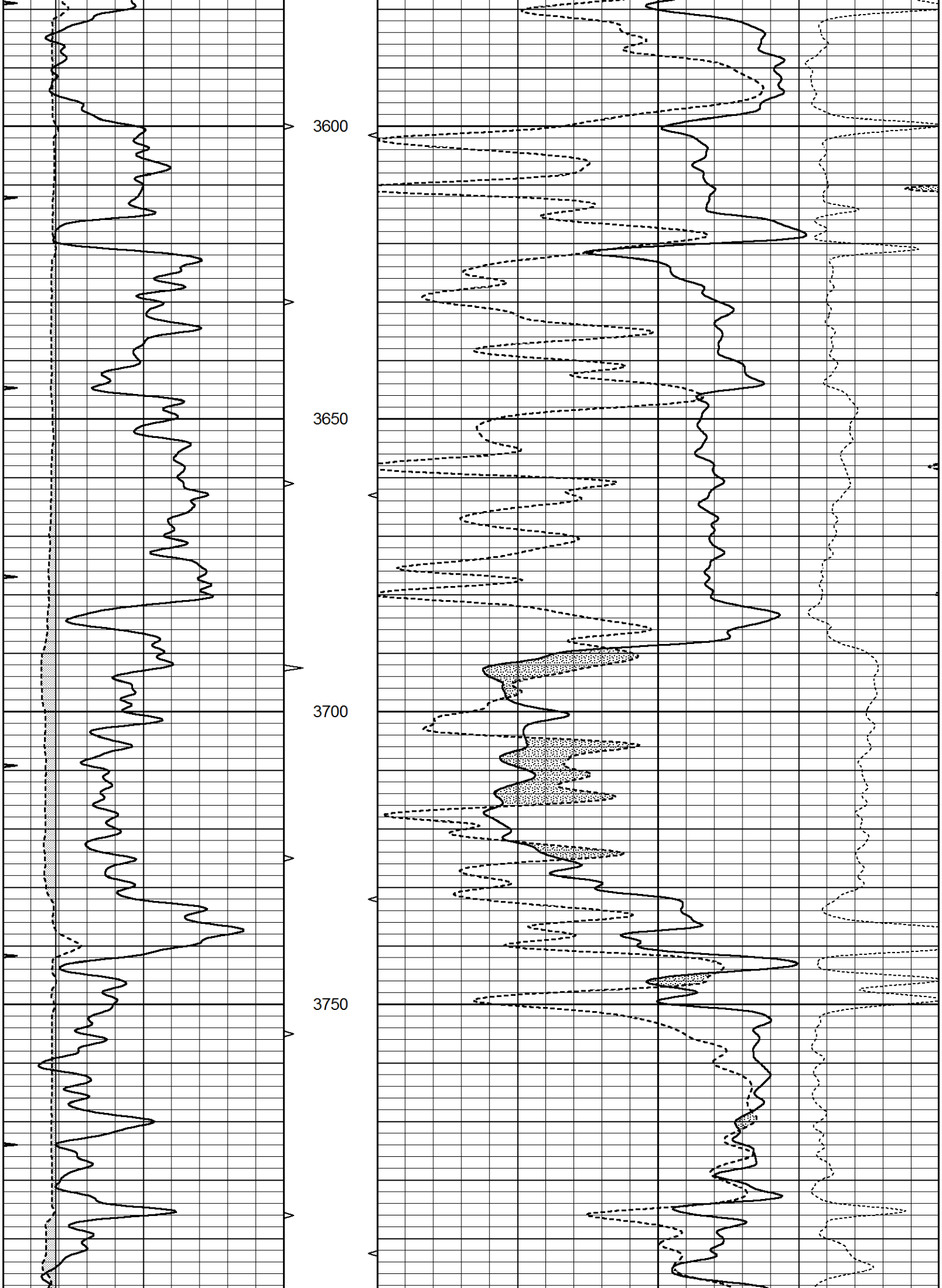
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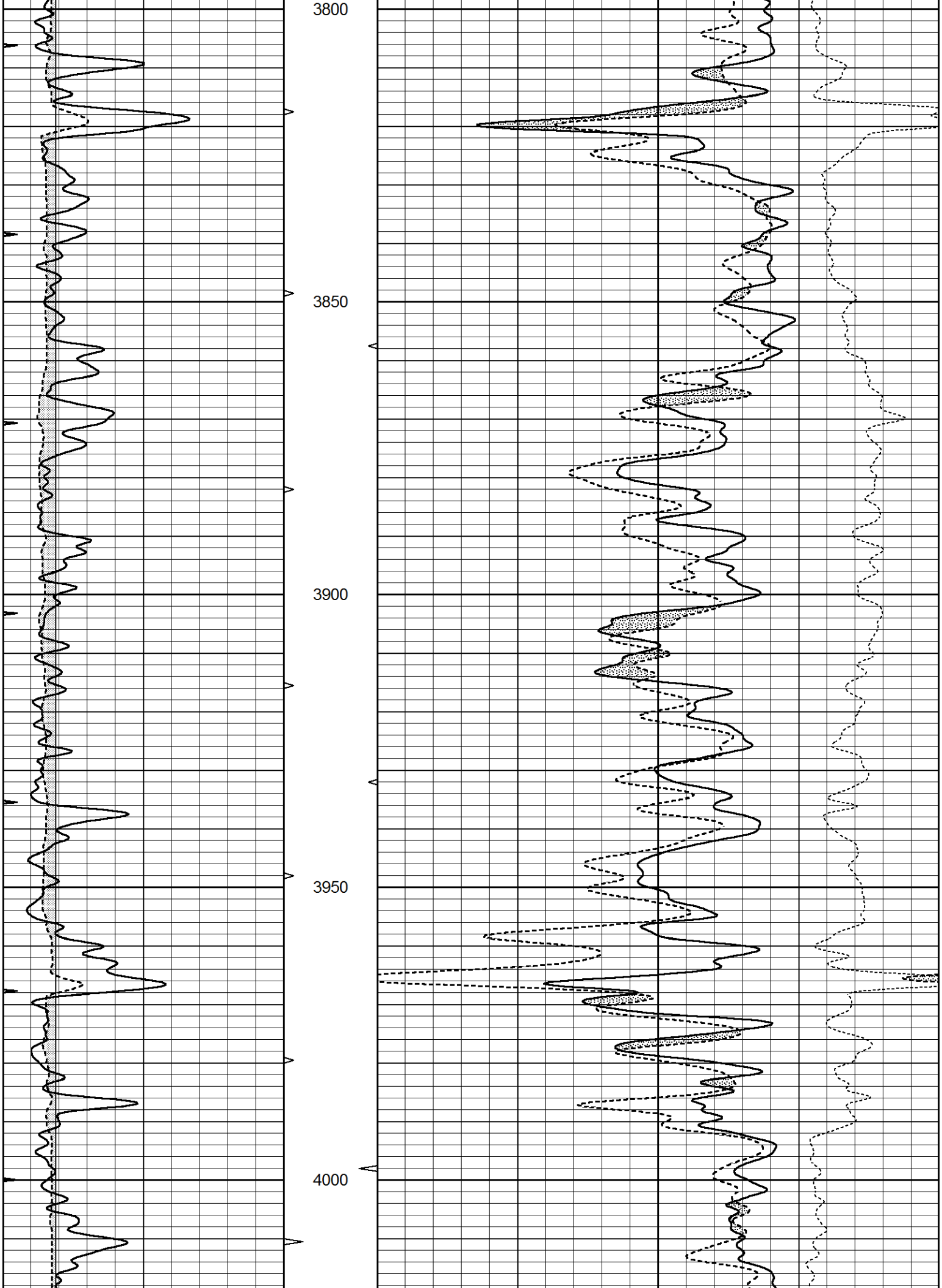
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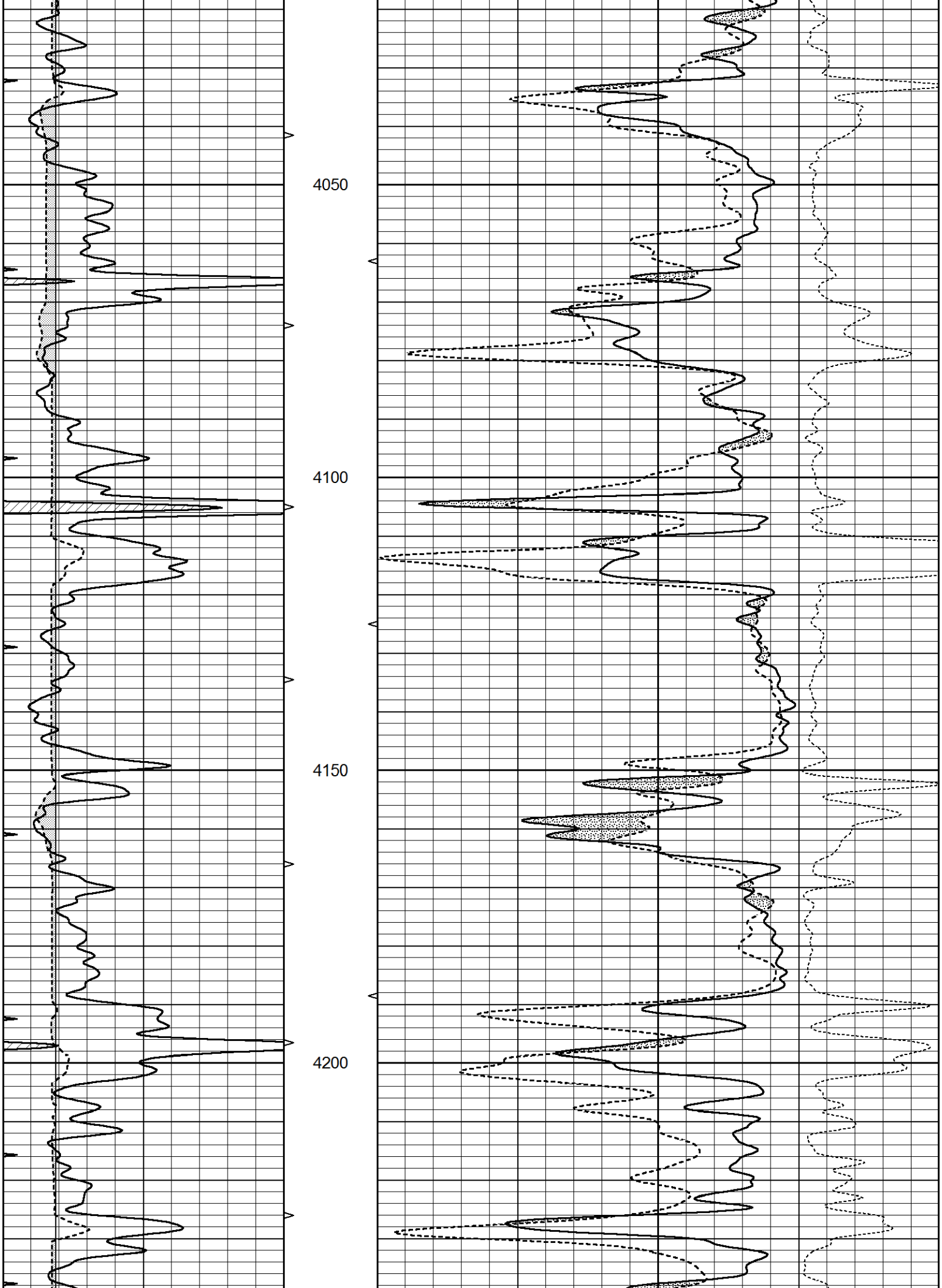
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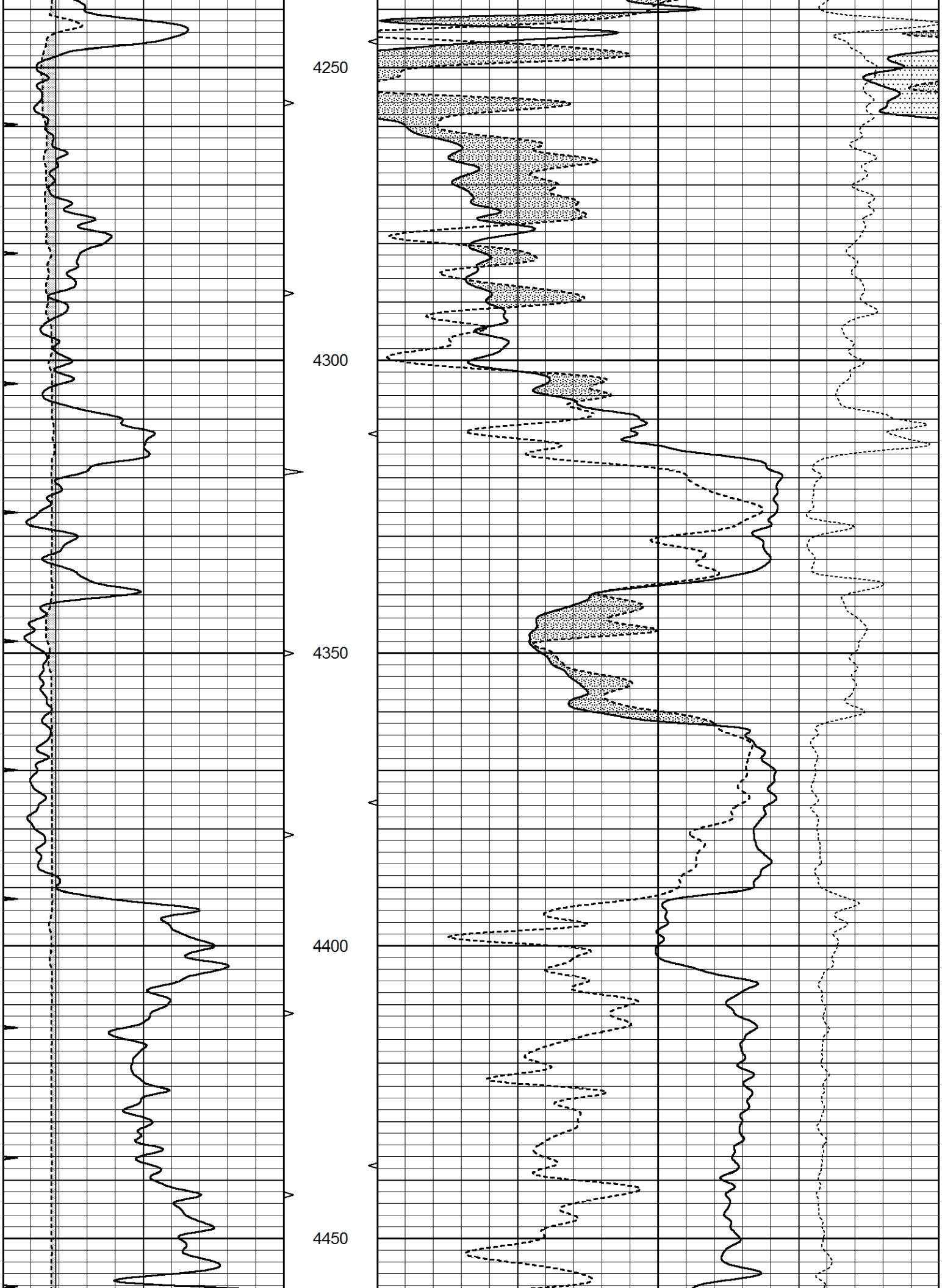
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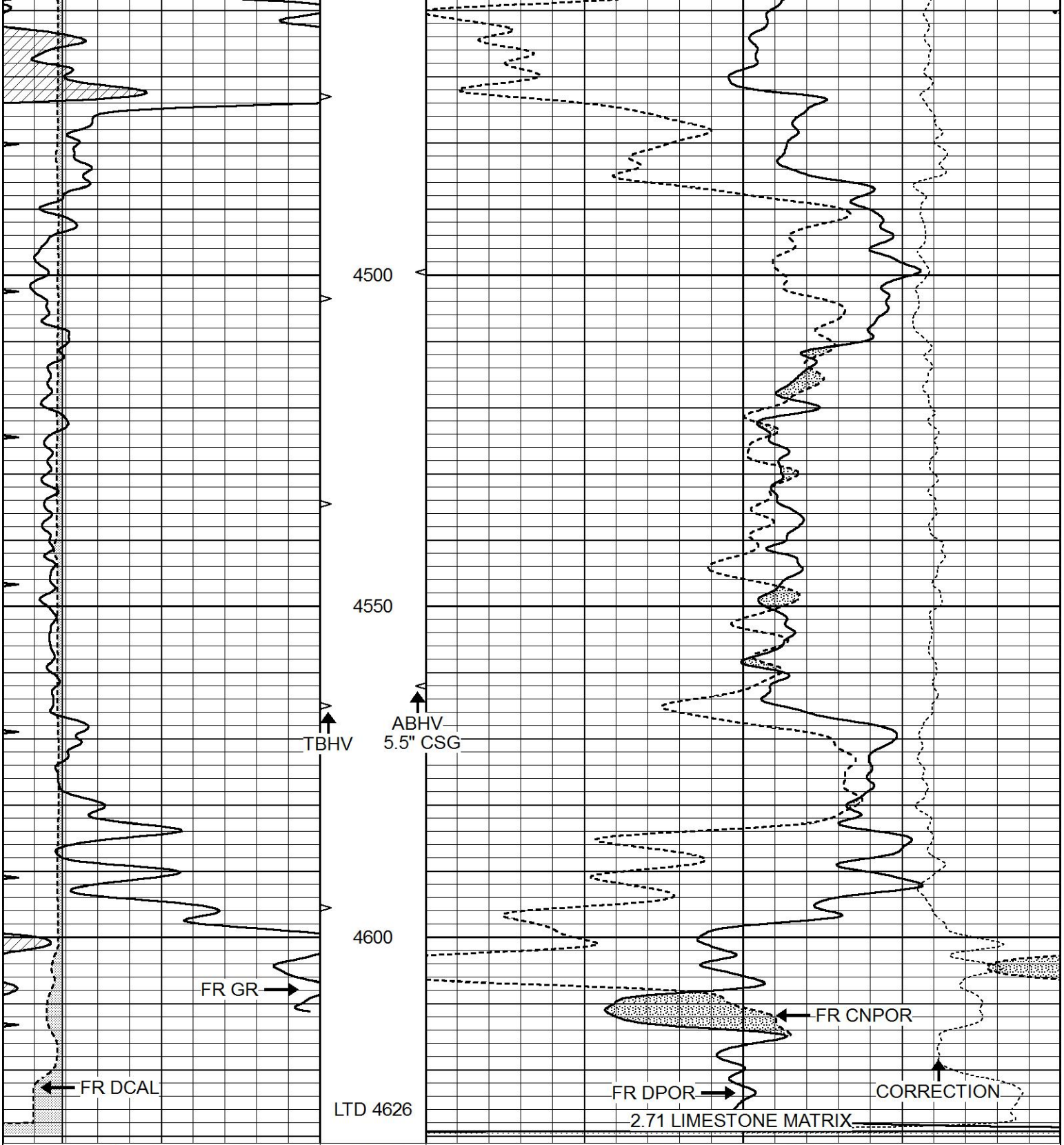


| | | | | | |
|---|---|---|---|---|---|
| 0 | GAMMA RAY (GAPI) 150 | AVTX | 30 | COMPENSATED DENSITY (pu) | -10 |
| 0 | MINMK 20 | 10 (ft3) 0 | 30 | COMPENSATED NEUTRON (pu) | -10 |
| 6 | CALIPER (in) 16 | BVTX | -0.25 | CORRECTION (g/cc) | 0.25 |
| | | 0 (ft3) 10 | | | |

# REPEAT SECTION

| | |
|---|---|
| Database File | 3991ddn8.db |
| Dataset Pathname | pass6.1 |
| Presentation Format | _den_neu |
| Dataset Creation | Sun Sep 08 11:18:06 2019 |
| Charted by | Depth in Feet scaled 1:240 |

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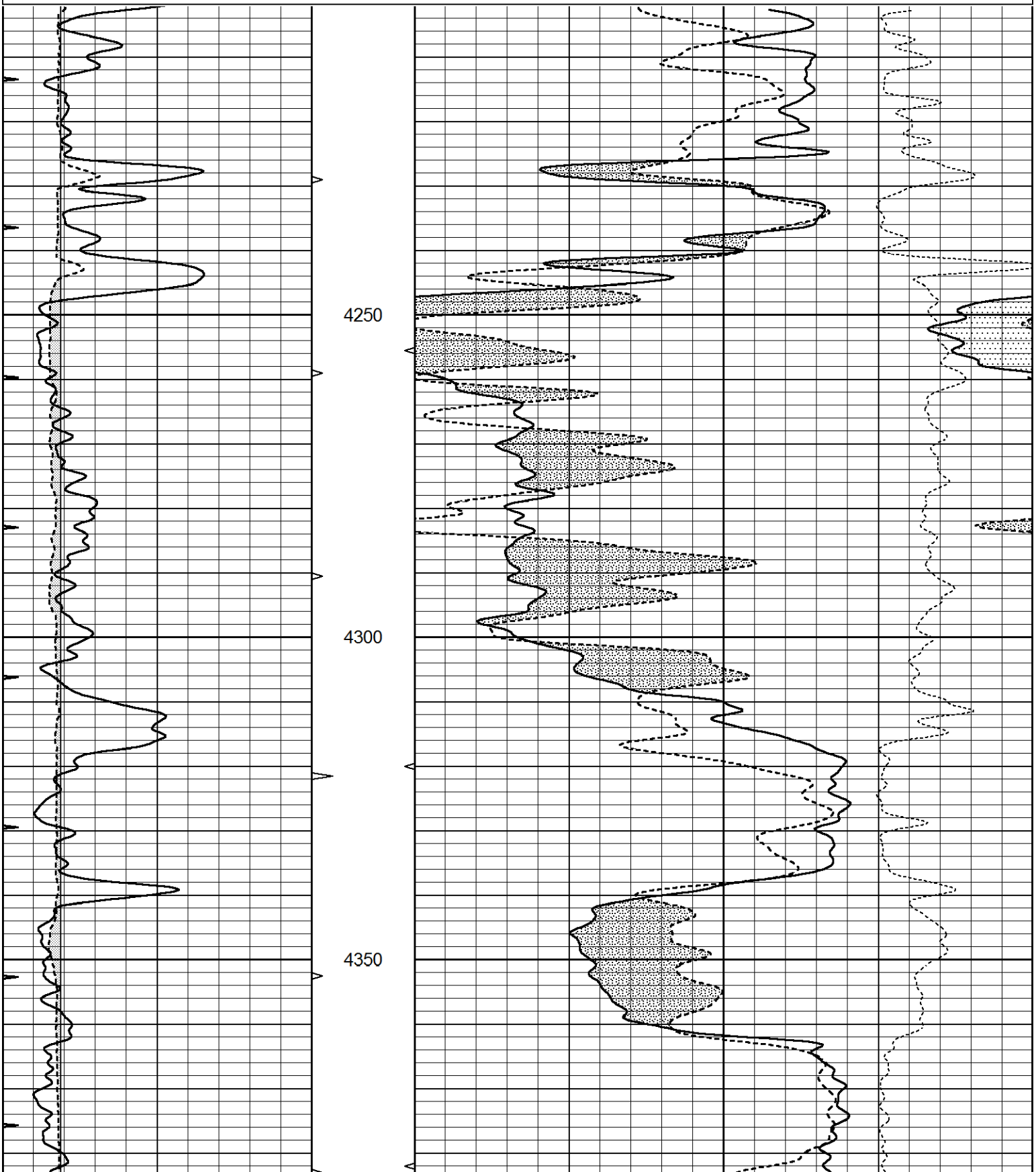
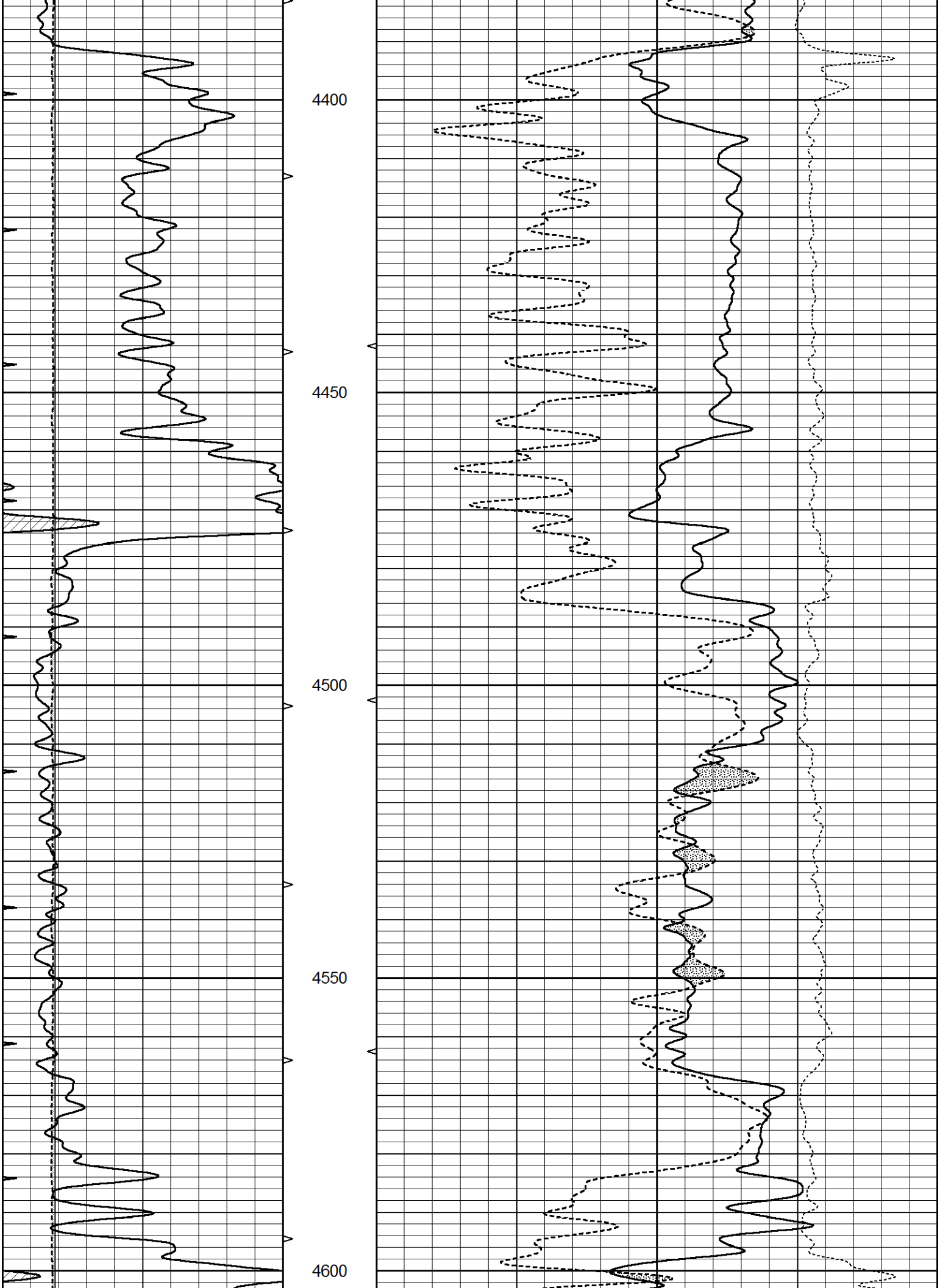
|---|---|---|---|---|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 | AVTX | 30 | COMPENSATED DENSITY (pu) | | -10 |
| 0 | MINMK | 20 | 10 (ft3) 0 | 30 | COMPENSATED NEUTRON (pu) | | -10 |
| 6 | CALIPER (in) | 16 | BVTX | | -0.25 | CORRECTION (g/cc) | 0.25 |
| | | | 0 (ft3) 10 | | | | |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 | AVTX | | 30 | COMPENSATED DENSITY (pu) | -10 |
| 0 | MINMK | 20 | 10 (ft3) | 0 | 30 | COMPENSATED NEUTRON (pu) | -10 |
| 6 | CALIPER (in) | 16 | BVTX | | | -0.25 CORRECTION (g/cc) | 0.25 |
| | | | 0 (ft3) | 10 | | | |

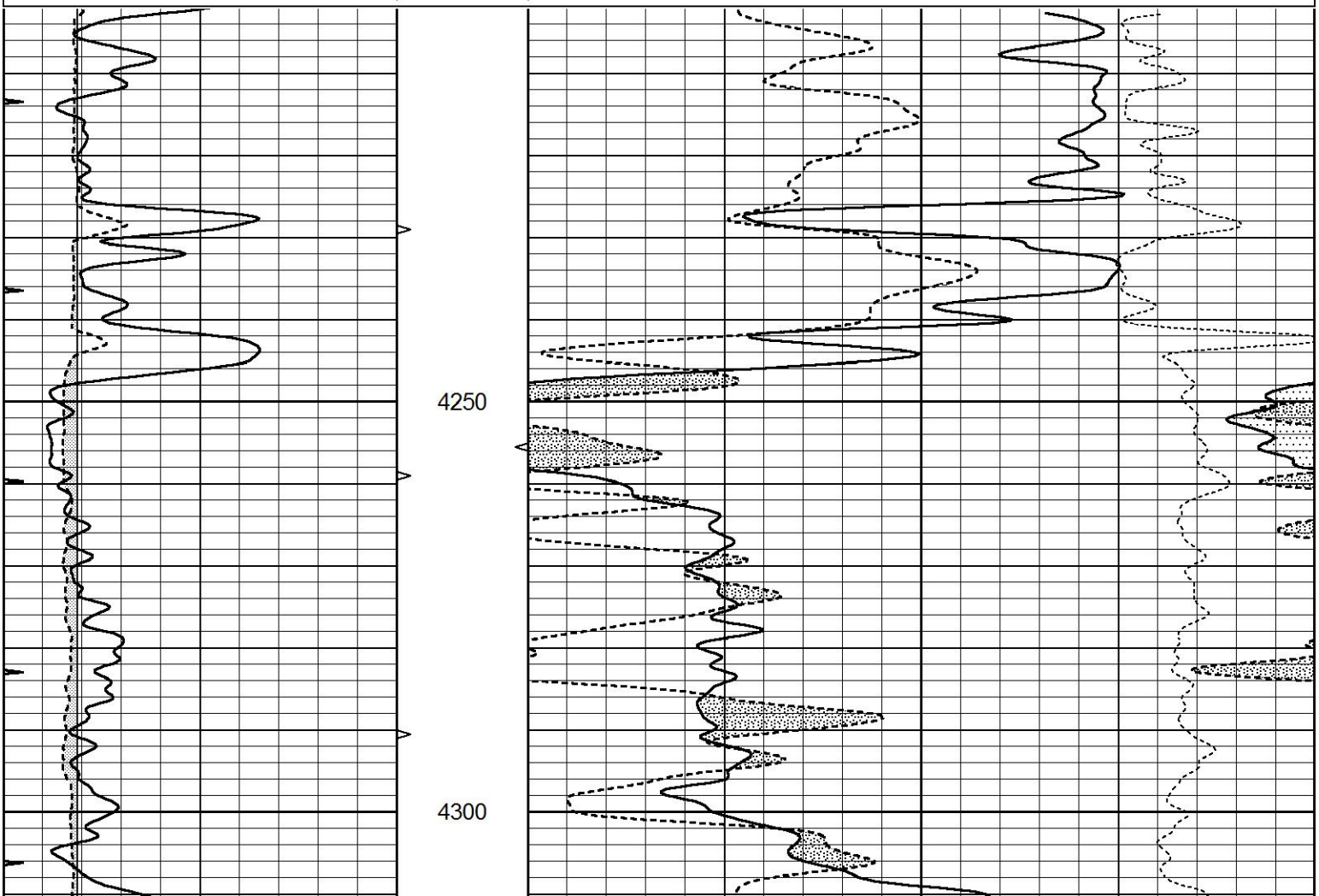
# 2.65 MATRIX

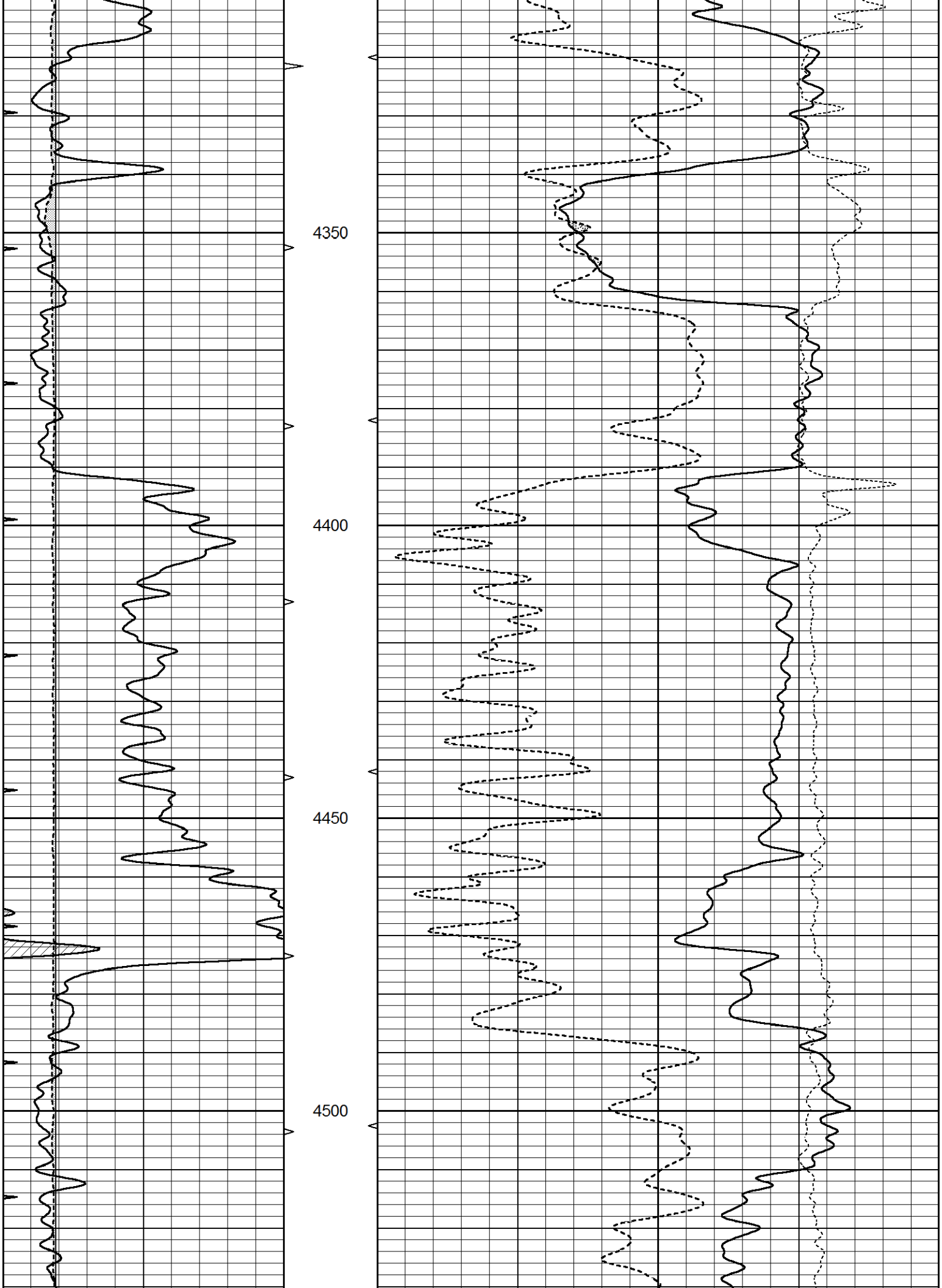
| | |
|---|---|
| Database File | 3991ddn8.db |
| Dataset Pathname | pass6.1S |
| Presentation Format | _den_neu |
| Dataset Creation | Sun Sep 08 11:19:09 2019 |
| Charted by | Depth in Feet scaled 1:240 |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | GAMMA RAY (GAPI) | 150 | AVTX | | 30 | COMPENSATED DENSITY (pu) | -10 |
| 0 | MINMK | 20 | 10 (ft3) | 0 | 30 | COMPENSATED NEUTRON (pu) | -10 |
| 6 | CALIPER (in) | 16 | BVTX | | | -0.25 CORRECTION (g/cc) | 0.25 |
| | | | 0 (ft3) | 10 | | | |



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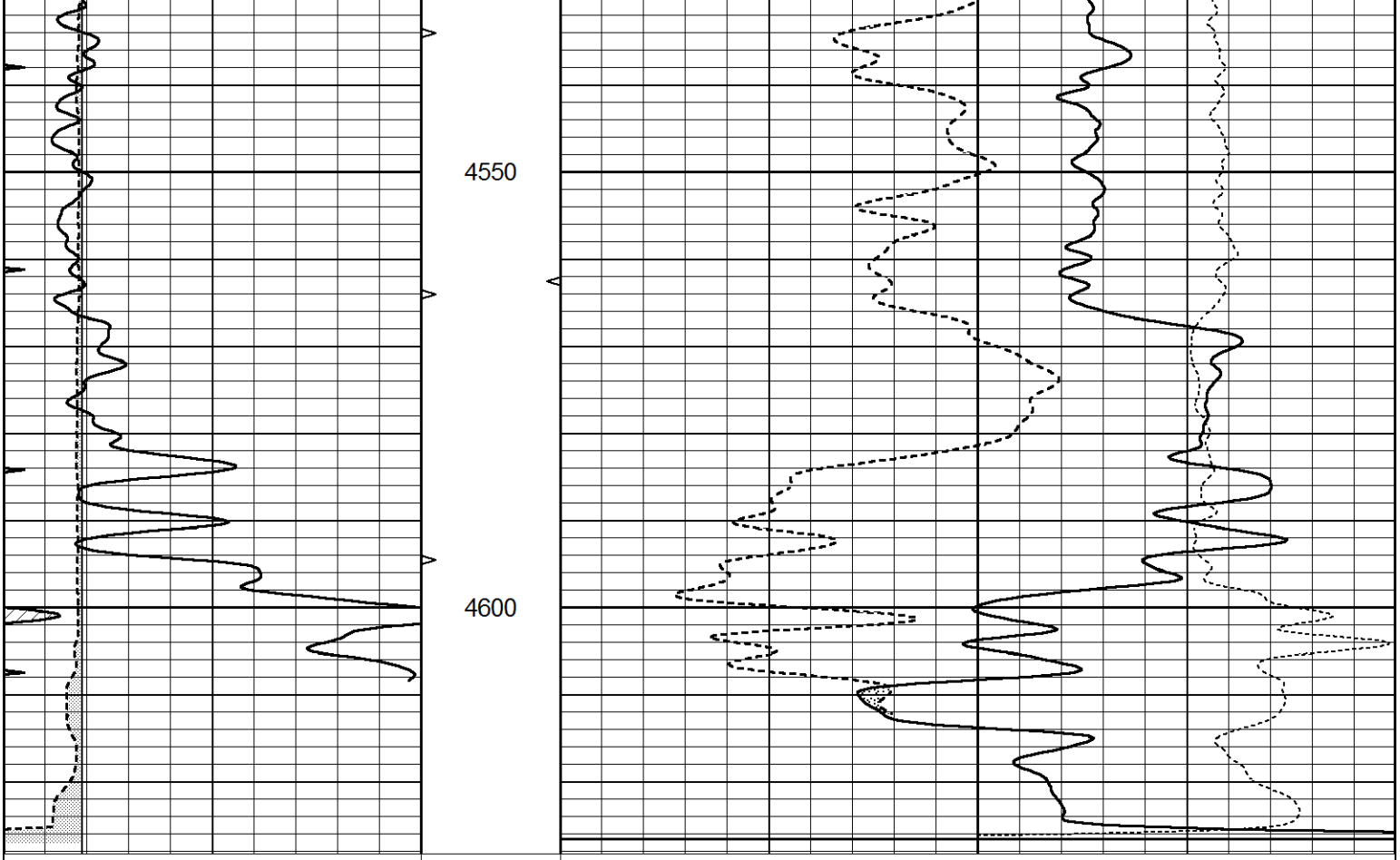


## Calibration Report

| | |
|---|---|
| Database File | 3991ddn8.db |
| Dataset Pathname | pass7.1 |
| Dataset Creation | Sun Sep 08 12:03:05 2019 |

## Compensated Neutron Calibration Report

| | |
|---|---|
| Serial Number: | 080621PMC |
| Tool Model: | NABORS |

### PRE-SURVEY VERIFICATION

| Detector | Readings | | Measured | Target |
|---|---|---|---|---|
| Short Space | | cps | | |
| Long Space | | cps | pu | pu |

### POST-SURVEY VERIFICATION

| Detector | Readings | | Measured | Target |
|---|---|---|---|---|
| Short Space | | cps | | |
| Long Space | | cps | pu | pu |

## Gamma Ray Calibration Report

| | |
|---|---|
| Serial Number: | 7 |
| Tool Model: | Probe1 |

| | | |
|---|---|---|
| Performed: | Tue Feb 19 11:45:10 2019 | |
| Calibrator Value: | 1.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 1.0 | cps |
| Sensitivity: | 0.3700 | GAPI/cps |