SUPERIOR WELL SERVICES

SUPERIOR
Hays, Kansas

# COMPENSATED DENSITY NEUTRON LOG

Company DREILING OIL, INC.
Well SCHULTZE #1
Field
County OSBORNE State KANSAS

Location: API # : 15-141-20401
1850' FSL & 2980' FEL
E/2 - NE - SW
SEC 28 TWP 8S RGE 13W

Other Services
DIL
SONIC/MEL

Permanent Datum GROUND LEVEL Elevation 1705
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1713
D.F.
G.L. 1705

| | | | |
|---|---|---|---|
| Date | 4-17-09 | | |
| Run Number | ONE | | |
| Depth Driller | 3760 | | |
| Depth Logger | 3760 | | |
| Bottom Logged Interval | 3736 | | |
| Top Log Interval | 1500 | | |
| Casing Driller | 222 | | |
| Casing Logger | NA | | |
| Bit Size | 7.875 | | |
| Type Fluid in Hole | CHEMICAL MUD | | |
| Density / Viscosity | 9.3 / 48 | | |
| pH / Fluid Loss | 10.0 / 8.0 | | |
| Source of Sample | FLOWLINE | | |
| Rm @ Meas. Temp | 0.85 @ 84F | | |
| Rmf @ Meas. Temp | 0.64 @ 84F | | |
| Rmc @ Meas. Temp | 1.02 @ 84F | | |
| Source of Rmf / Rmc | MEASURED | | |
| Rm @ BHT | .640 @ 112F | | |
| Time Circulation Stopped | 2 HOURS | | |
| Time Logger on Bottom | | | |
| Maximum Recorded Temperature | 112F | | |
| Equipment Number | 0860 | | |
| Location | HAYS, KS. | | |
| Recorded By | RUPP | | |
| Witnessed By | BILL REE | | |

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<< 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: WALDO, 5N TO THE STOP SIGN, N TO COVERT, 2N & E TO CURVE, 1/2N, E INTO.

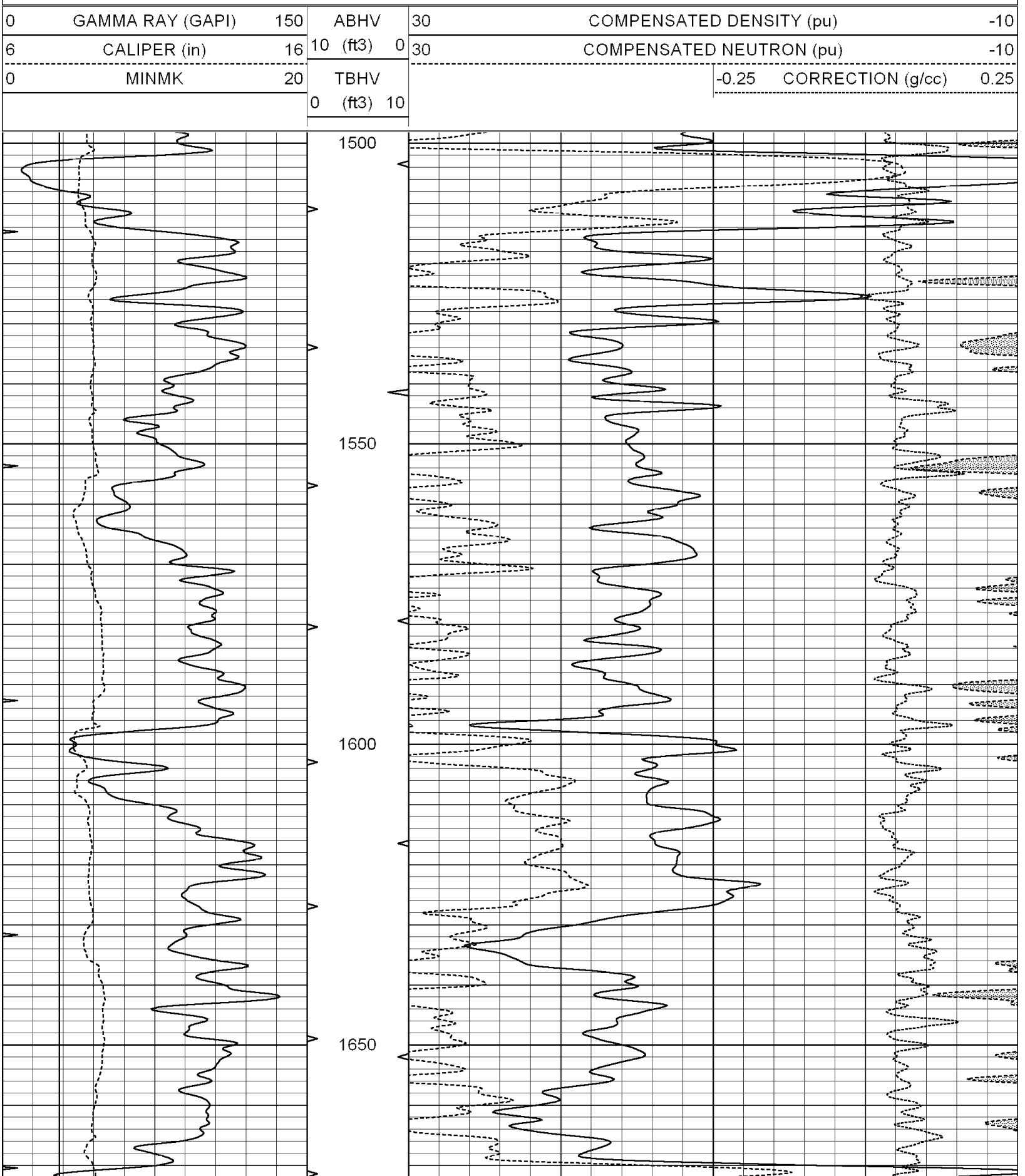
# MAIN SECTION

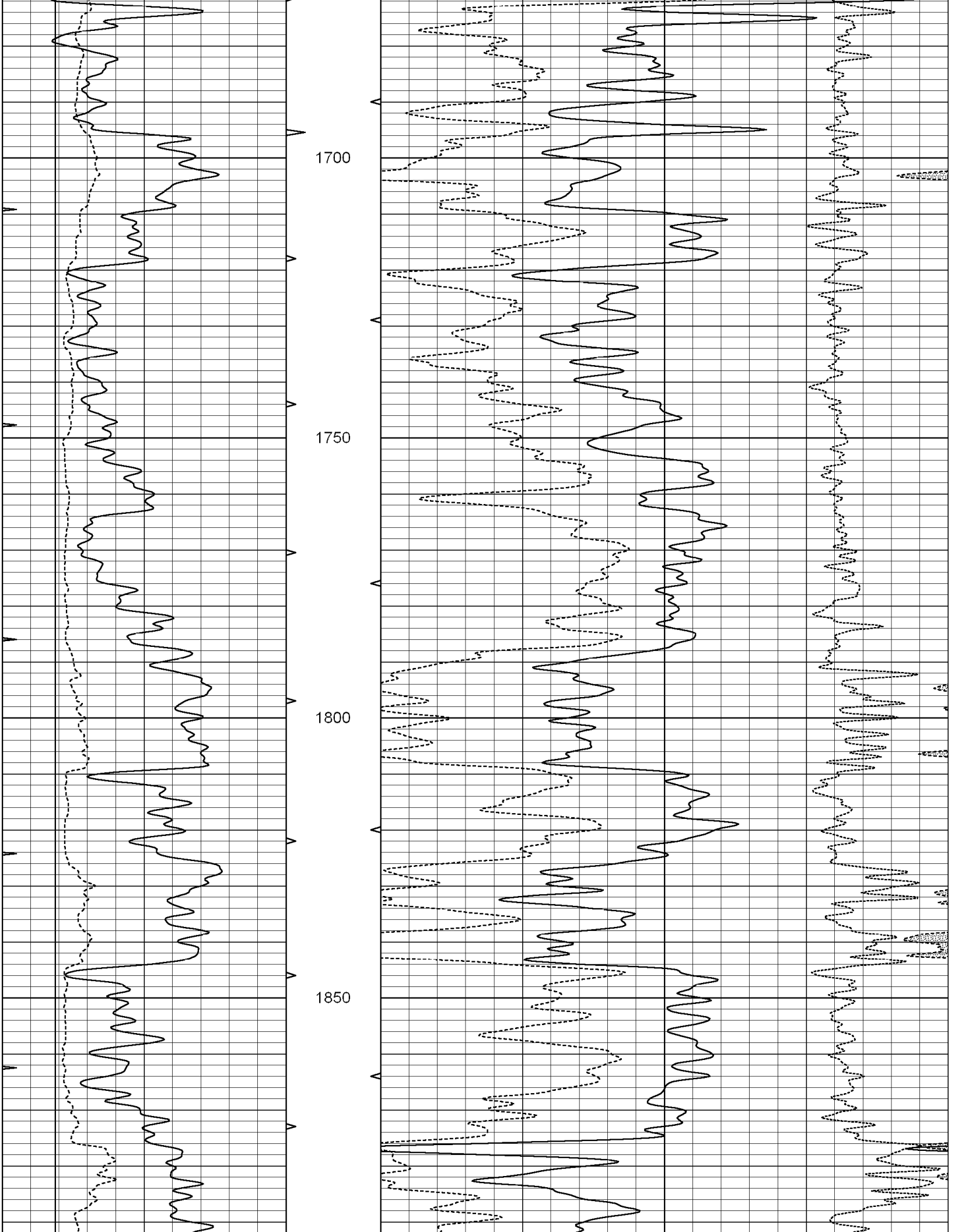
SUPERIOR
Hays, Kansas

SUPERIOR WELL SERVICES

Kansas

Database File: 003244ddn.db
Dataset Pathname: pass3.1
Presentation Format: den_neu
Dataset Creation: Fri Apr 17 20:11:32 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:240

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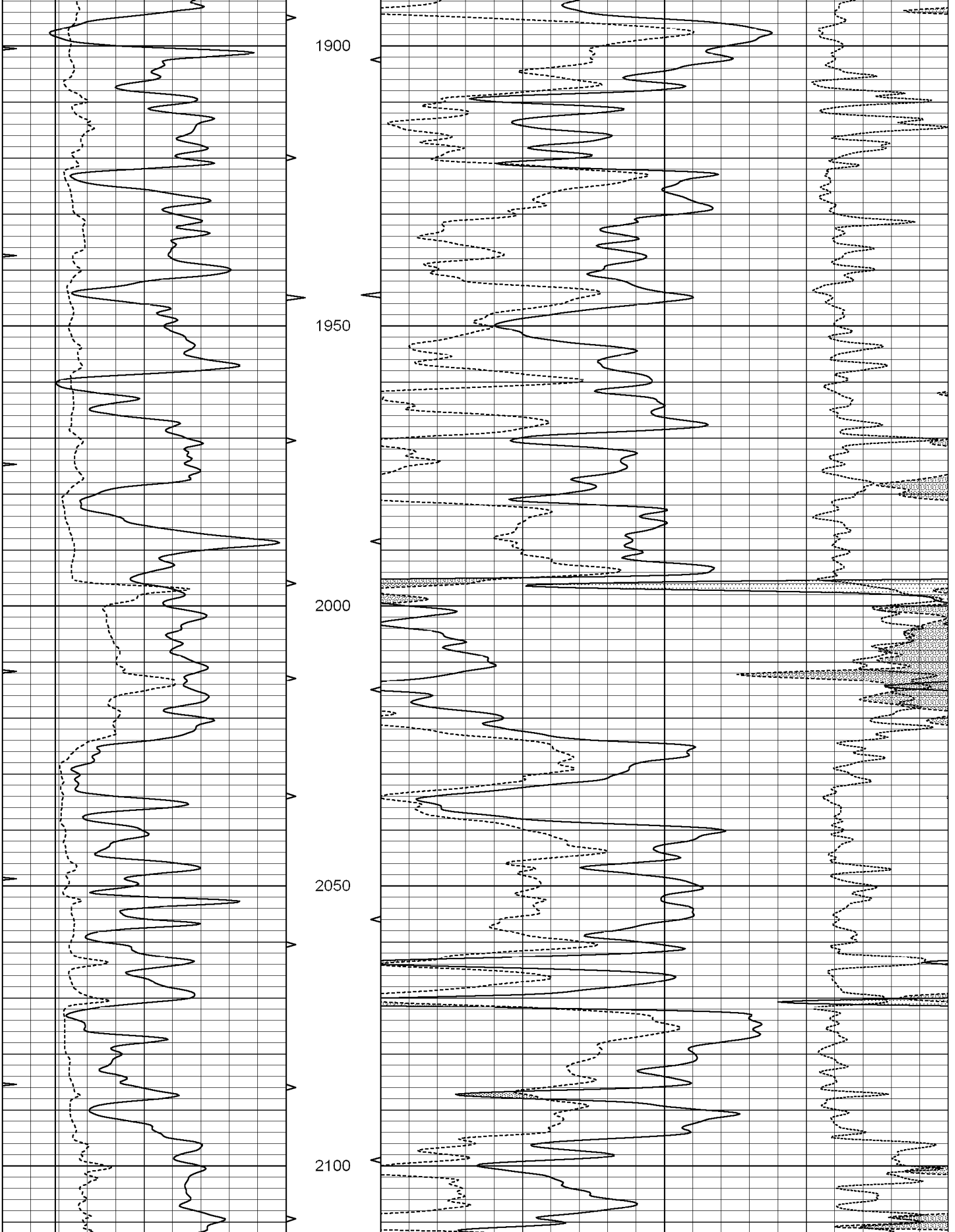
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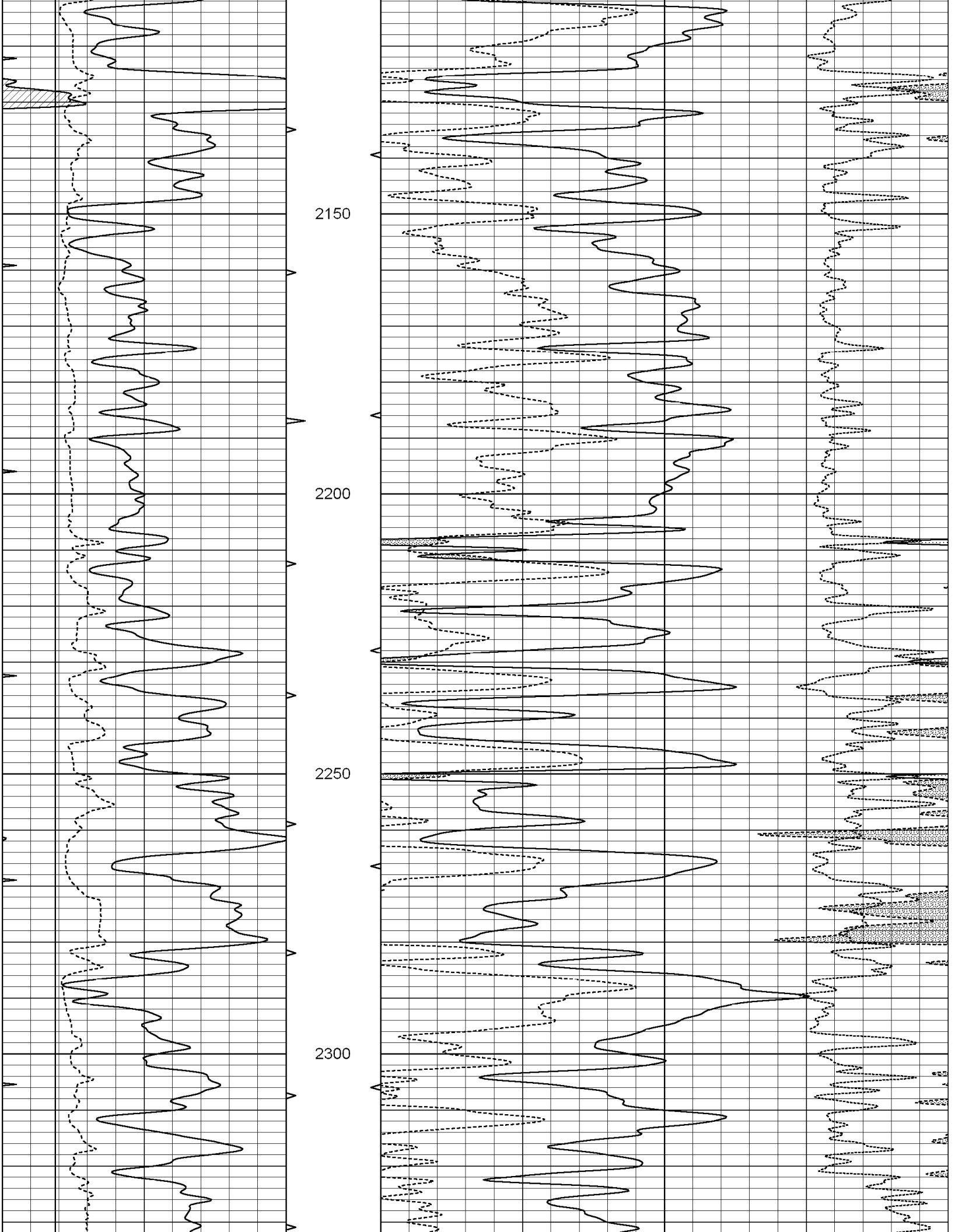
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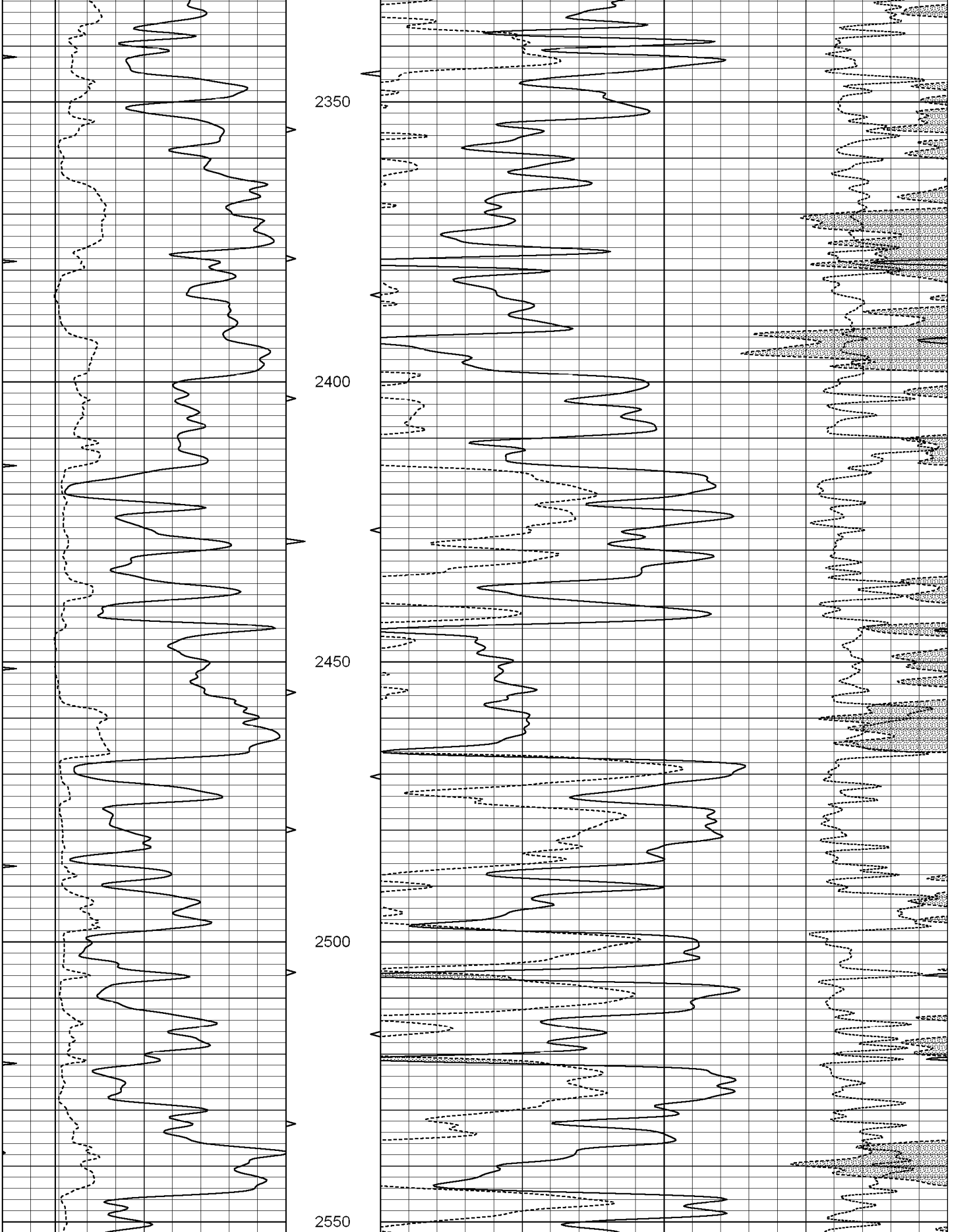
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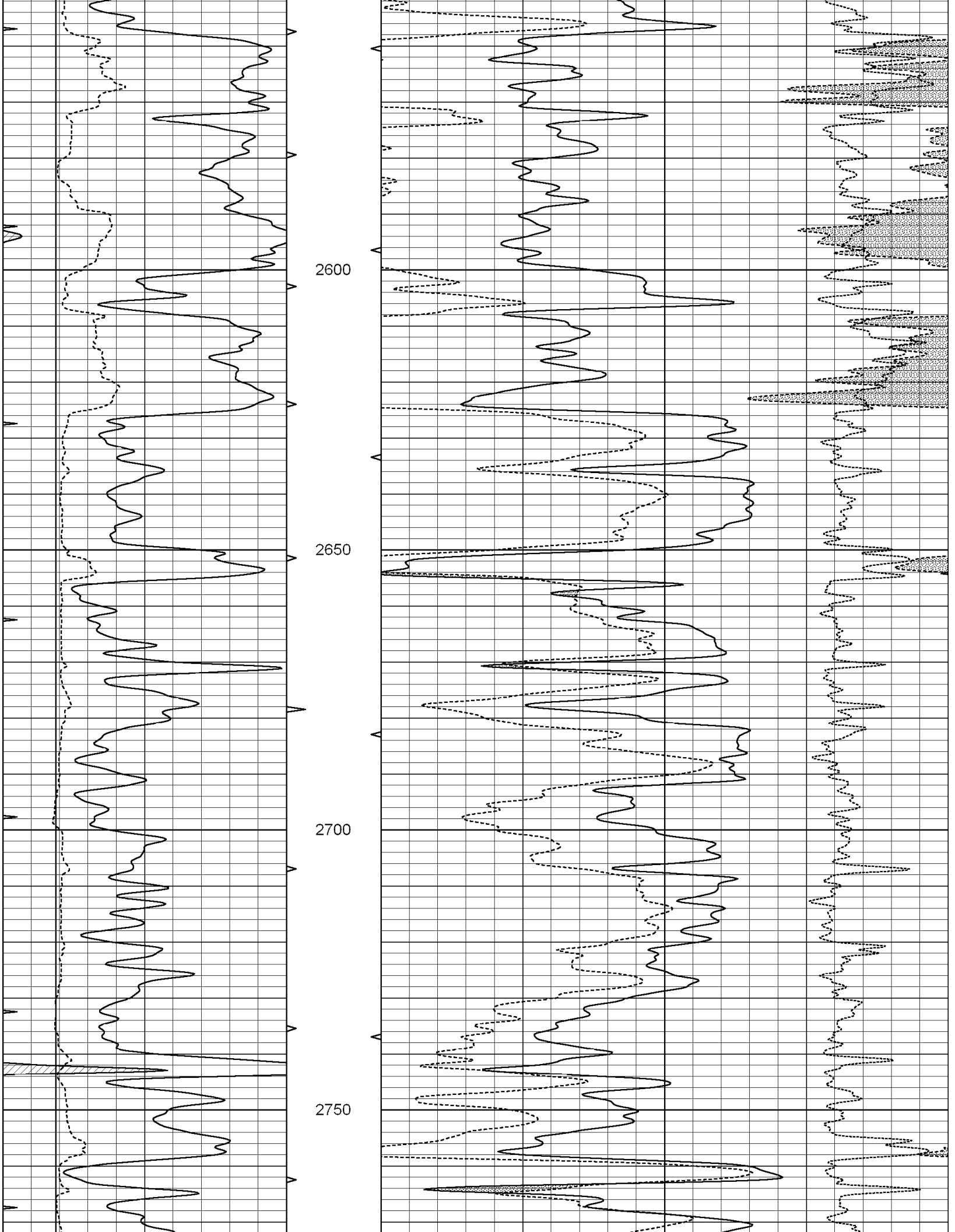
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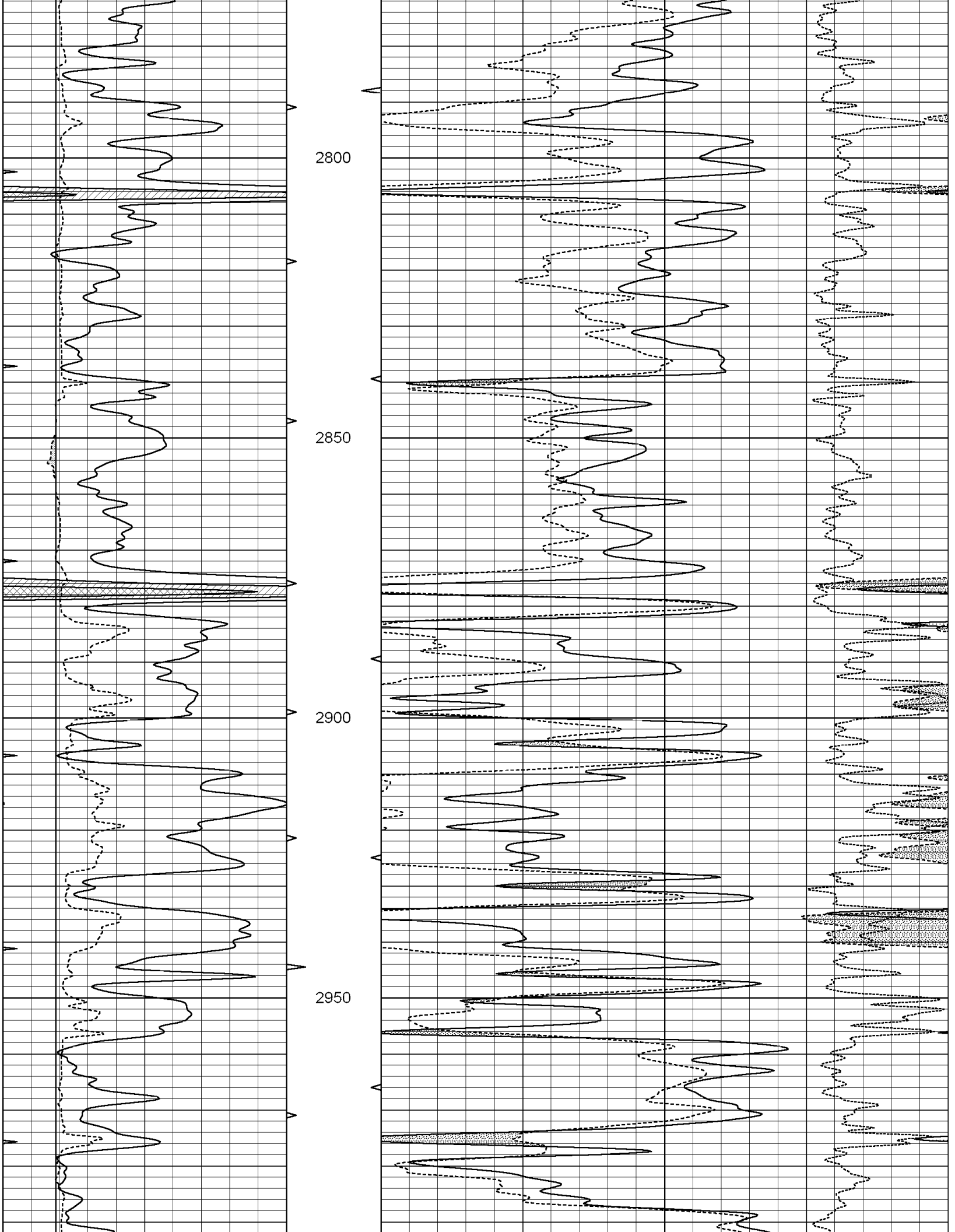
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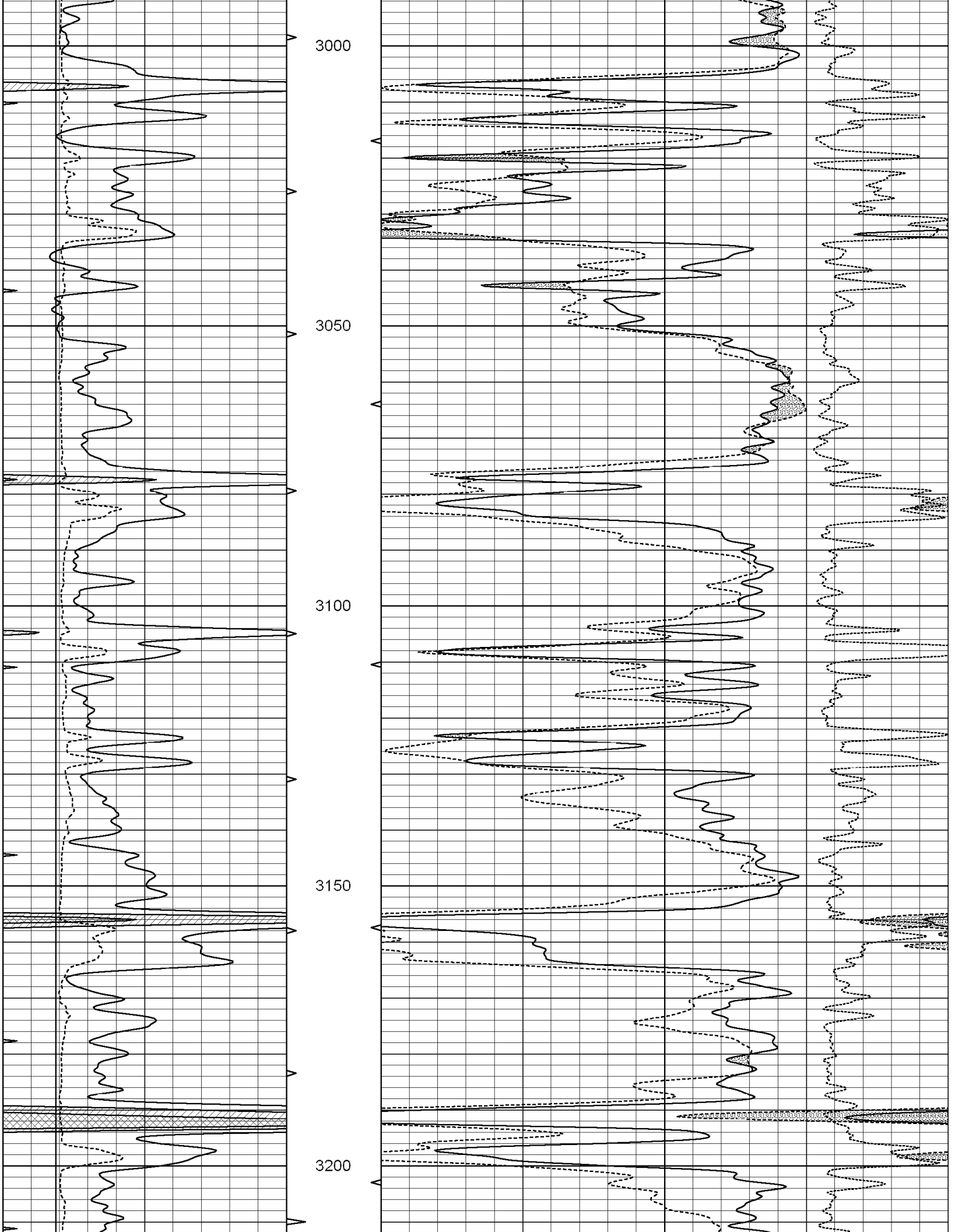
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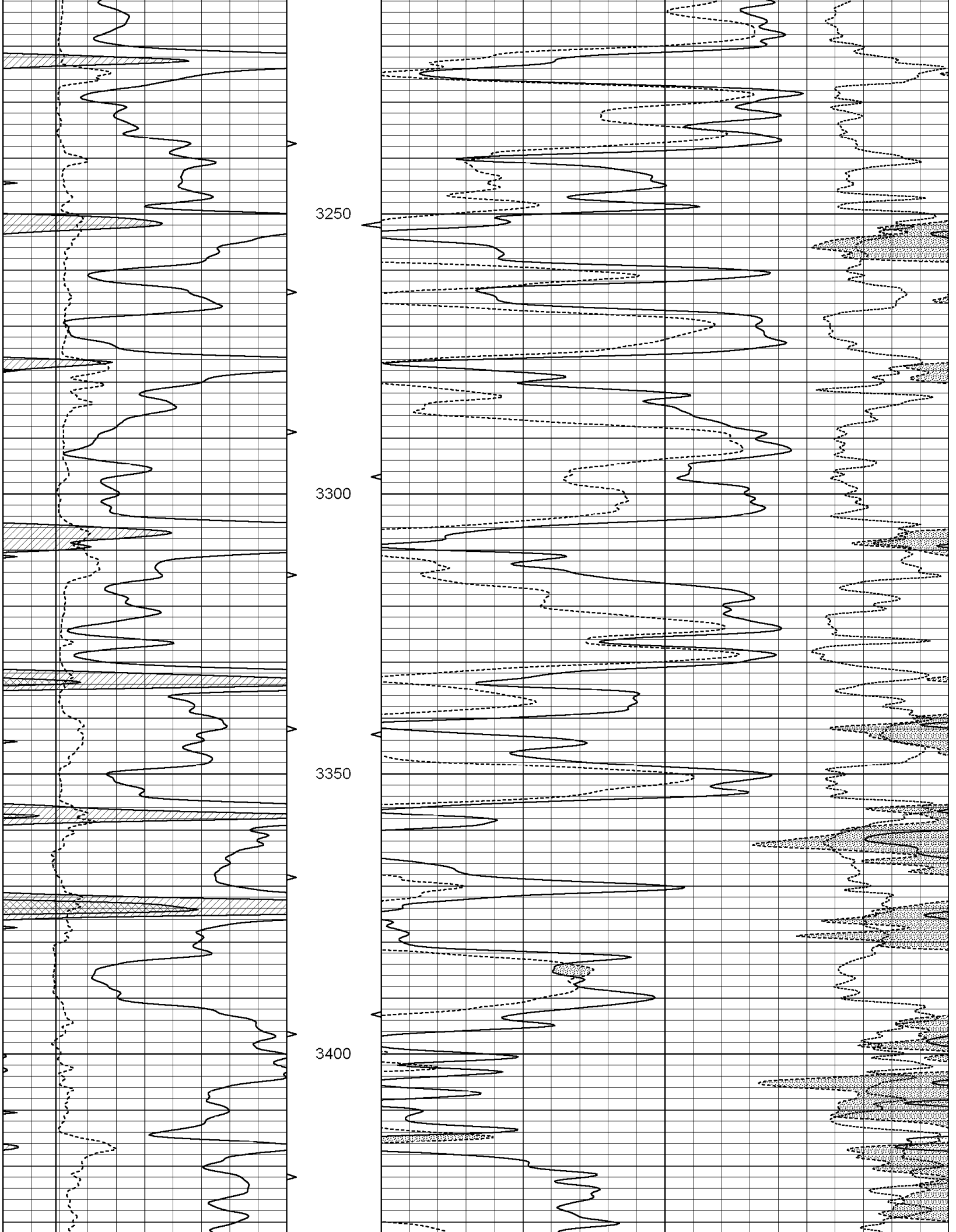
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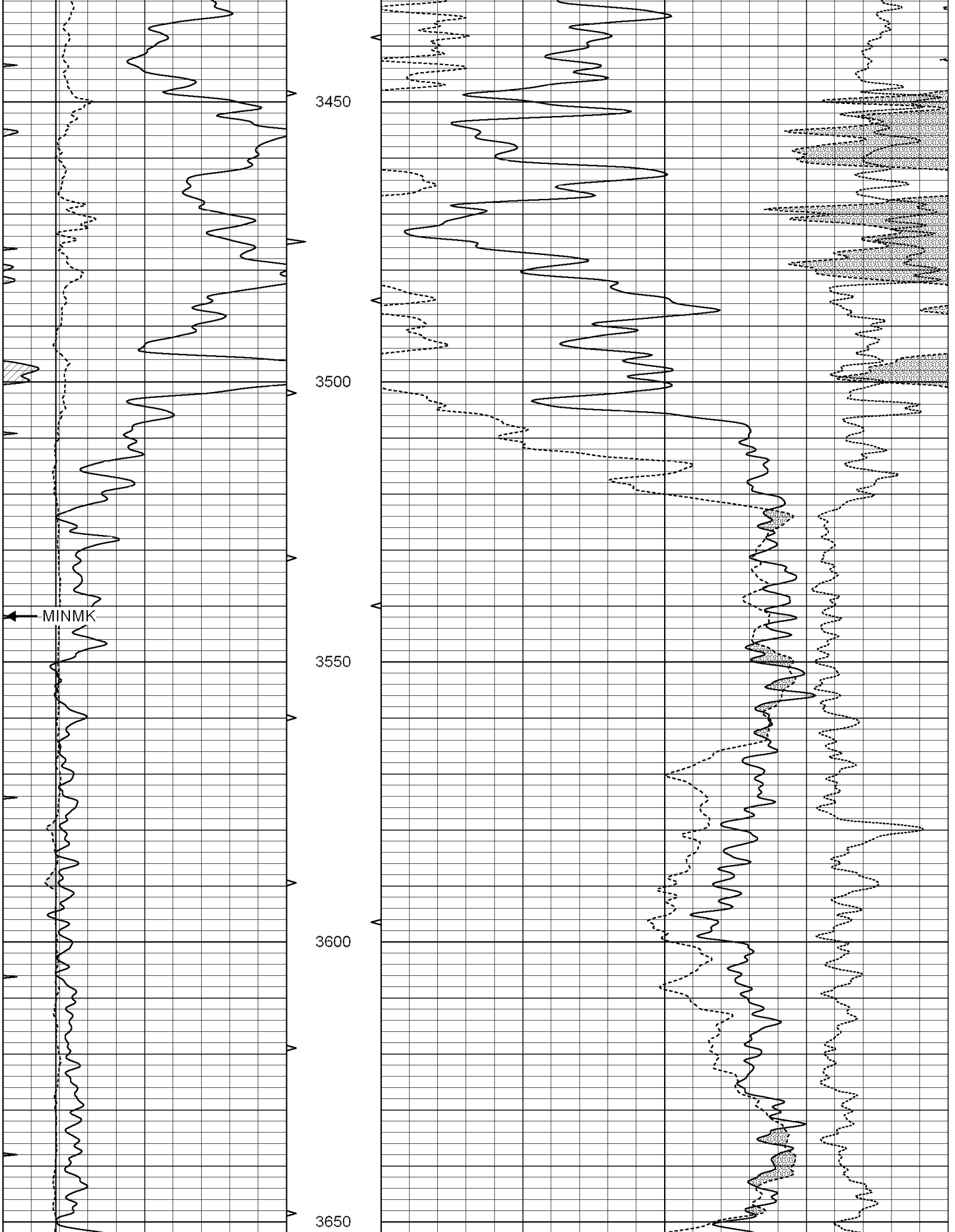
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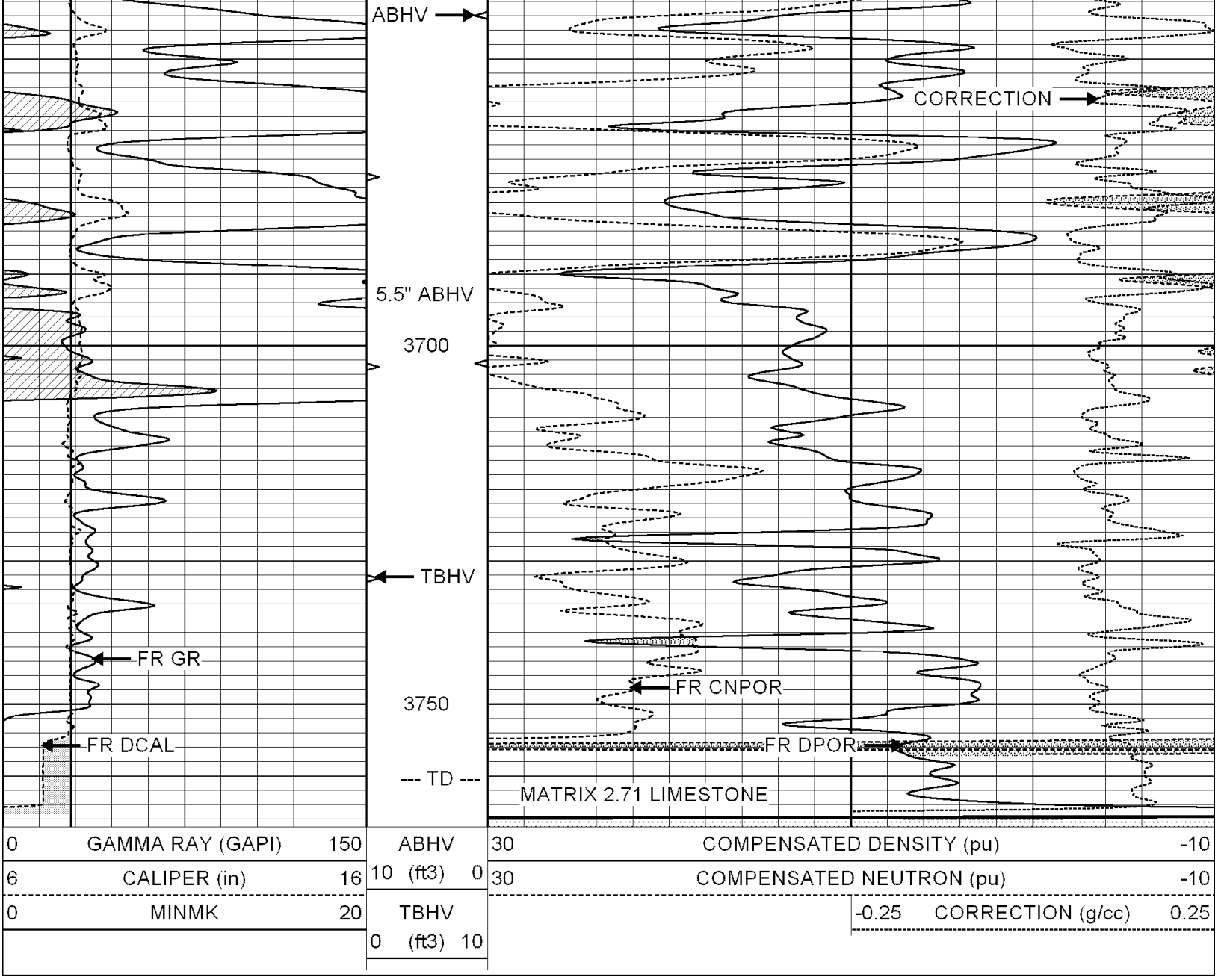


SUPERIOR WELL SERVICES

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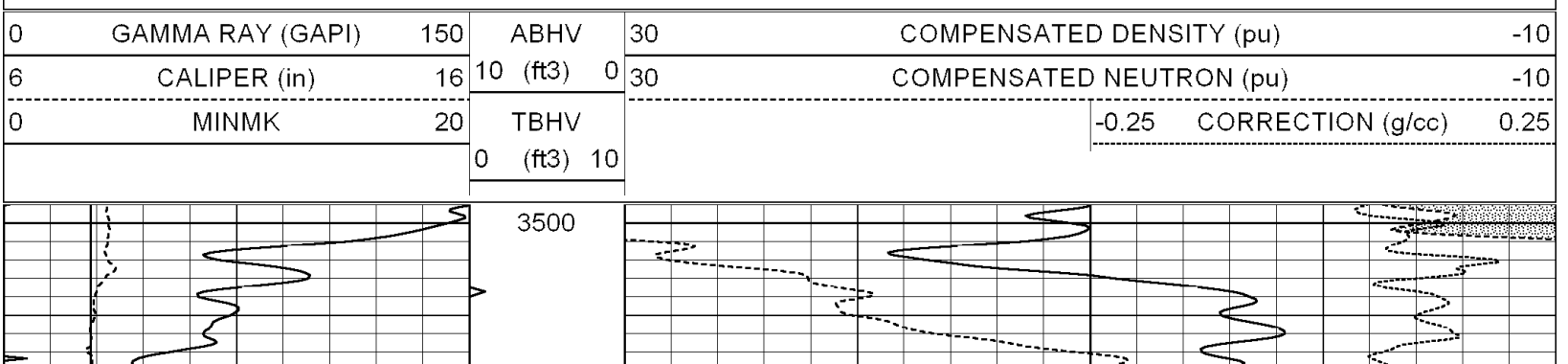
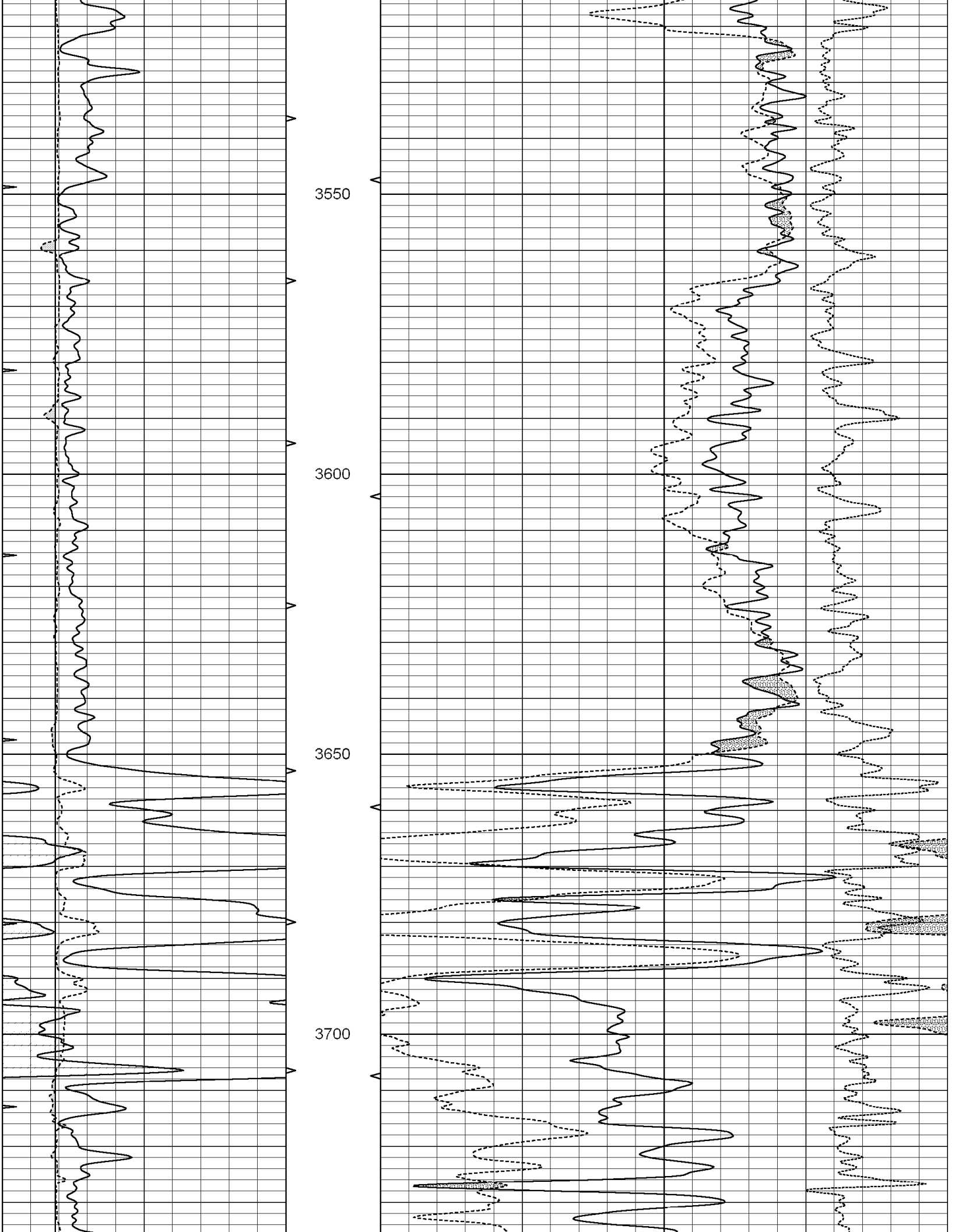
# REPEAT SECTION

Database File: 003244ddn.db
Dataset Pathname: pass2.1A
Presentation Format: den_neu
Dataset Creation: Fri Apr 17 21:41:20 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:240

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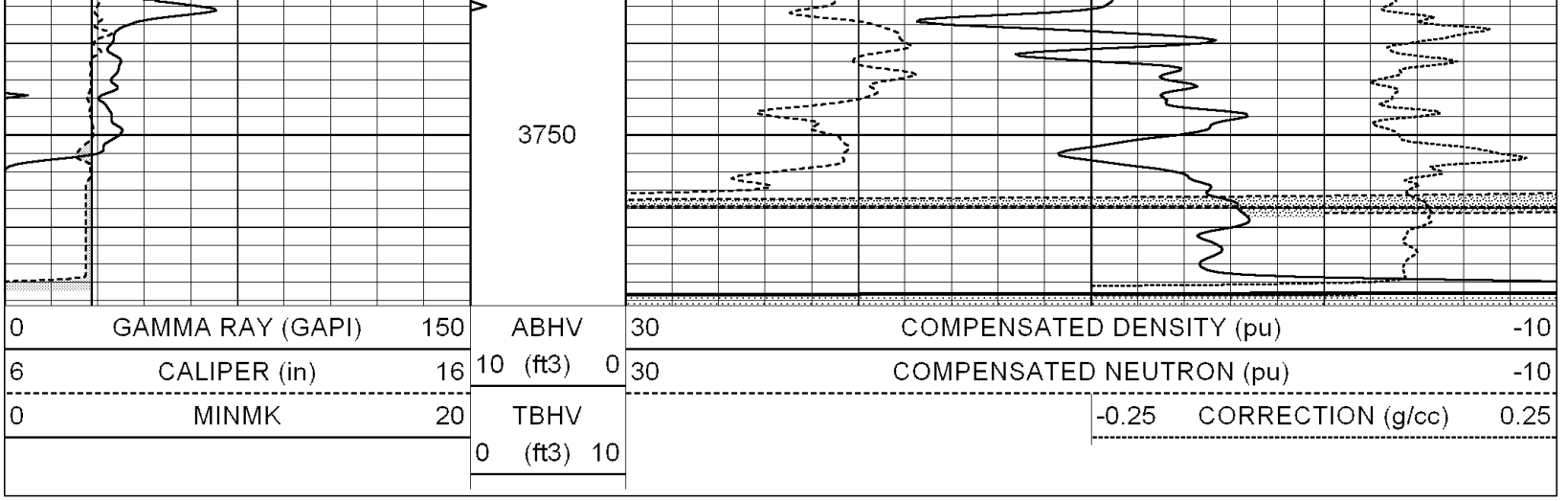


## Calibration Report

Database File: 003244ddn.db
Dataset Pathname: pass3.1
Dataset Creation: Fri Apr 17 20:11:32 2009 by Calc Open-Cased 051020

### Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Fri Apr 17 18:51:40 2009

Master Calibration

| | Density | | Far Detector | Near Detector | |
|---|---|---|---|---|---|
| Magnesium | 1.710 | g/cc | 1006.91 | 528.07 | cps |
| Aluminum | 2.590 | g/cc | 233.49 | 355.80 | cps |

Spine Angle = 74.88 Density/Spine Ratio = 0.581

| | Size | | Reading | |
|---|---|---|---|---|
| Small Ring | 7.20 | in | 2.87 | V |
| Large Ring | 14.00 | in | 5.71 | V |

### Compensated Neutron Calibration Report

Serial Number: NEU_1I
Tool Model: G

CALIBRATION

| Detector | Readings | | Target | | Normalization |
|---|---|---|---|---|---|
| Short Space | 1.00 | cps | 1.00 | cps | 1.0000 |
| Long Space | 1.00 | cps | 1.00 | cps | 1.0000 |

### Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Fri Apr 17 20:08:26 2009

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps