



**COMPENSATED
DENSITY/NEUTRON
PE LOG**

Company MccOY PETOLEUM CORPORATION
 Well GARDINER "A" #1-4
 Field SLATE CREEK NORTH
 County SUMNER
 State KANSAS

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Location: API #: 15-191-22837-0000
 990' FNL & 1650' FEL
 SE-NW-NE
 SEC 4 TWP 33S RGE 2E
 Permanent Datum GROUND LEVEL Elevation: 1152
 Log Measured From KELLY BUSHING 12' A.G.L.
 Drilling Measured From KELLY BUSHING
 Other Services
 DIL/MEL
 SON
 Elevation
 K.B. 1164
 D.F. 1162
 G.L. 1152

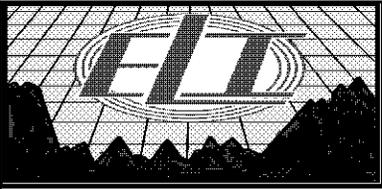
| | | | |
|------------------------------|--------------|--------------------|--|
| Date | 3/14/22 | | |
| Run Number | ONE | | |
| Depth Driller | 3450 | | |
| Depth Logger | 3451 | | |
| Bottom Logged Interval | 3427 | | |
| Top Log Interval | 253 | | |
| Casing Driller | 8 5/8" @ 273 | | |
| Casing Logger | 273 | | |
| Bit Size | 7 7/8 | | |
| Type Fluid in Hole | CHEMICAL MUD | CHLORIDES 1800 PPM | |
| Density / Viscosity | 9.5/62 | | |
| PH / Fluid Loss | 11.0/7.3 | | |
| Source of Sample | FLOWLINE | | |
| Rm @ Meas. Temp | 1.5@60F | | |
| Rmt @ Meas. Temp | 1.13@60F | | |
| Rmc @ Meas. Temp | 1.8@60F | | |
| Source of Rmf / Rmc | MEASUREMENT | | |
| Rm @ BHT | 81@111F | | |
| Time Circulation Stopped | 2 HOURS | | |
| Time Logger on Bottom | //// | | |
| Maximum Recorded Temperature | 111F | | |
| Equipment Number | 3802 | | |
| Location | HAYS, KANSAS | | |
| Recorded By | TJ DREILING | | |
| Witnessed By | TOM PRONOLD | | |

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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

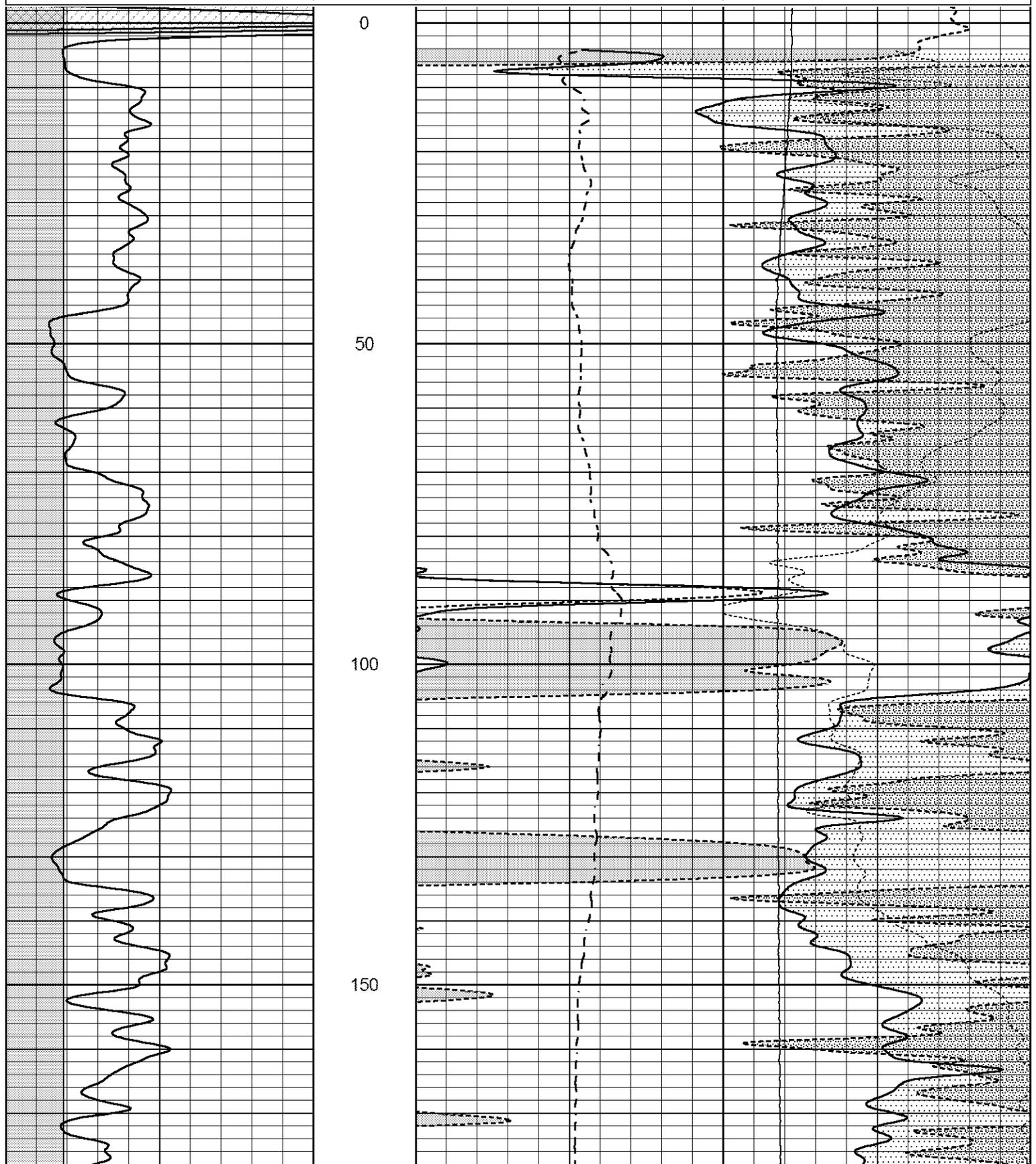
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
 DIRECTIONS
 -WELLINGTON KS, EAST ON HIGHWAY 160, 7 MILES TO WEBB RD.
 -SOUTH 6 MILES TO ROAD 50, -EAST 1/2 MILE.
 -SOUTH INTO

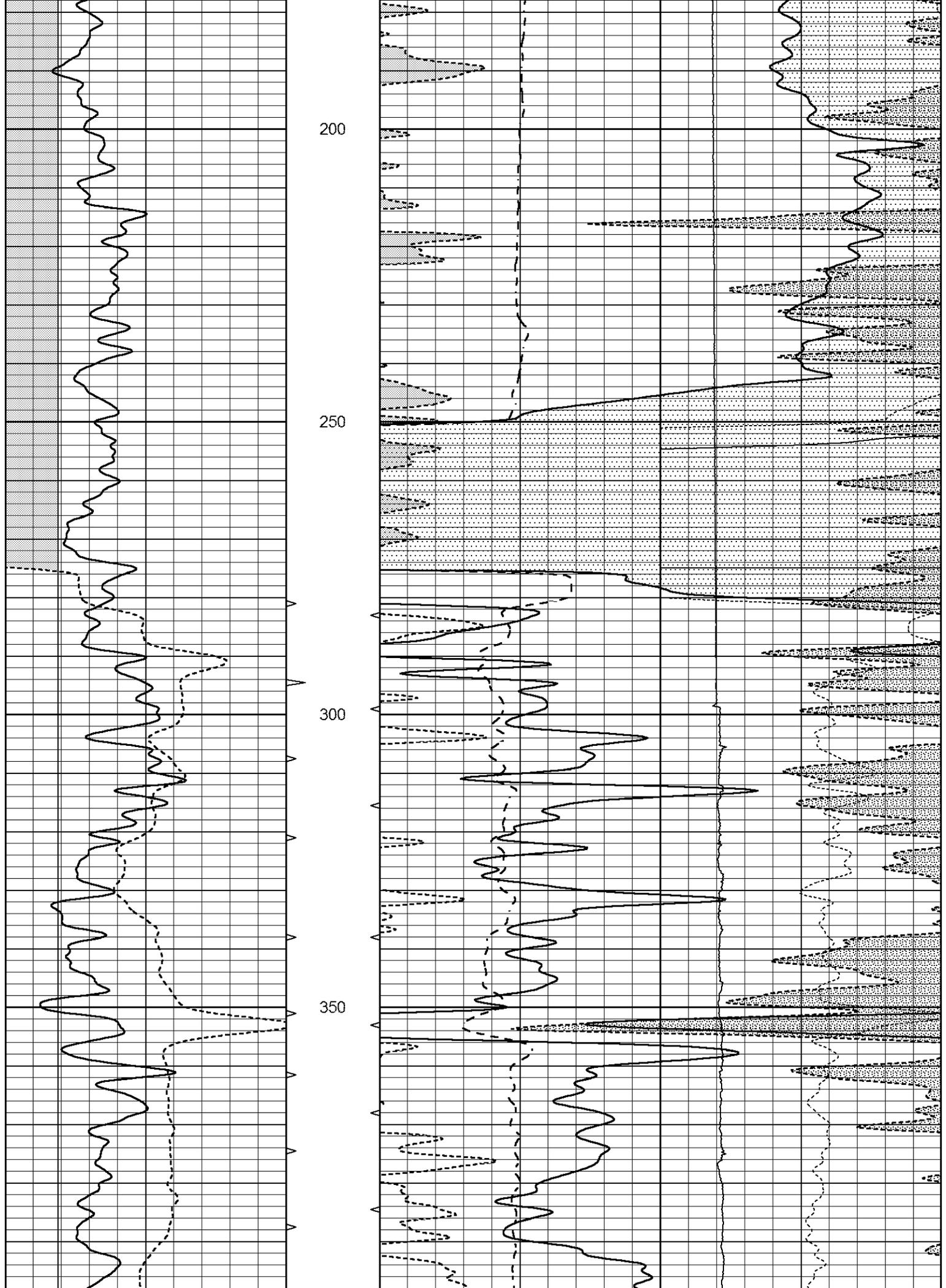


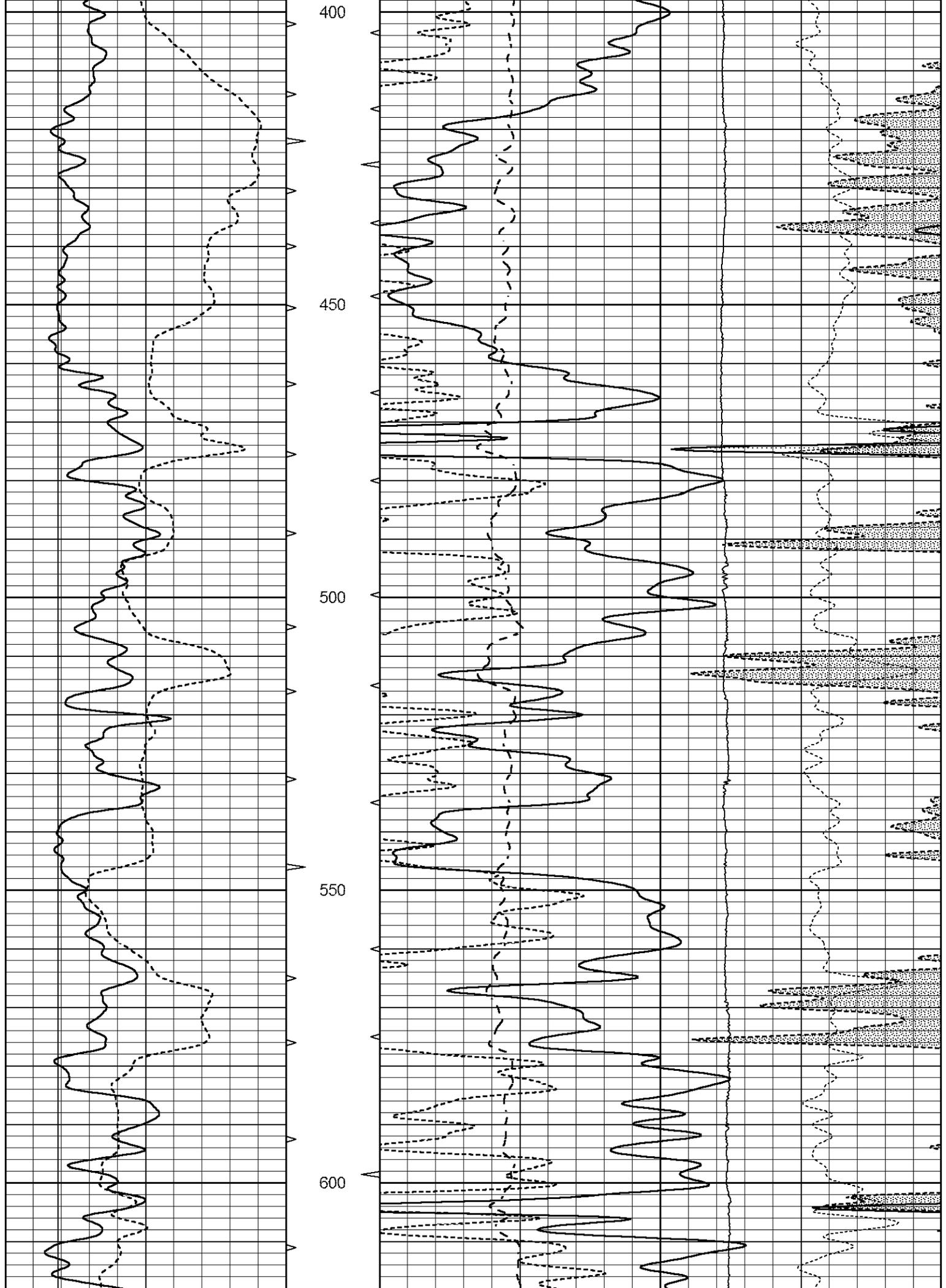
MAIN SECTION

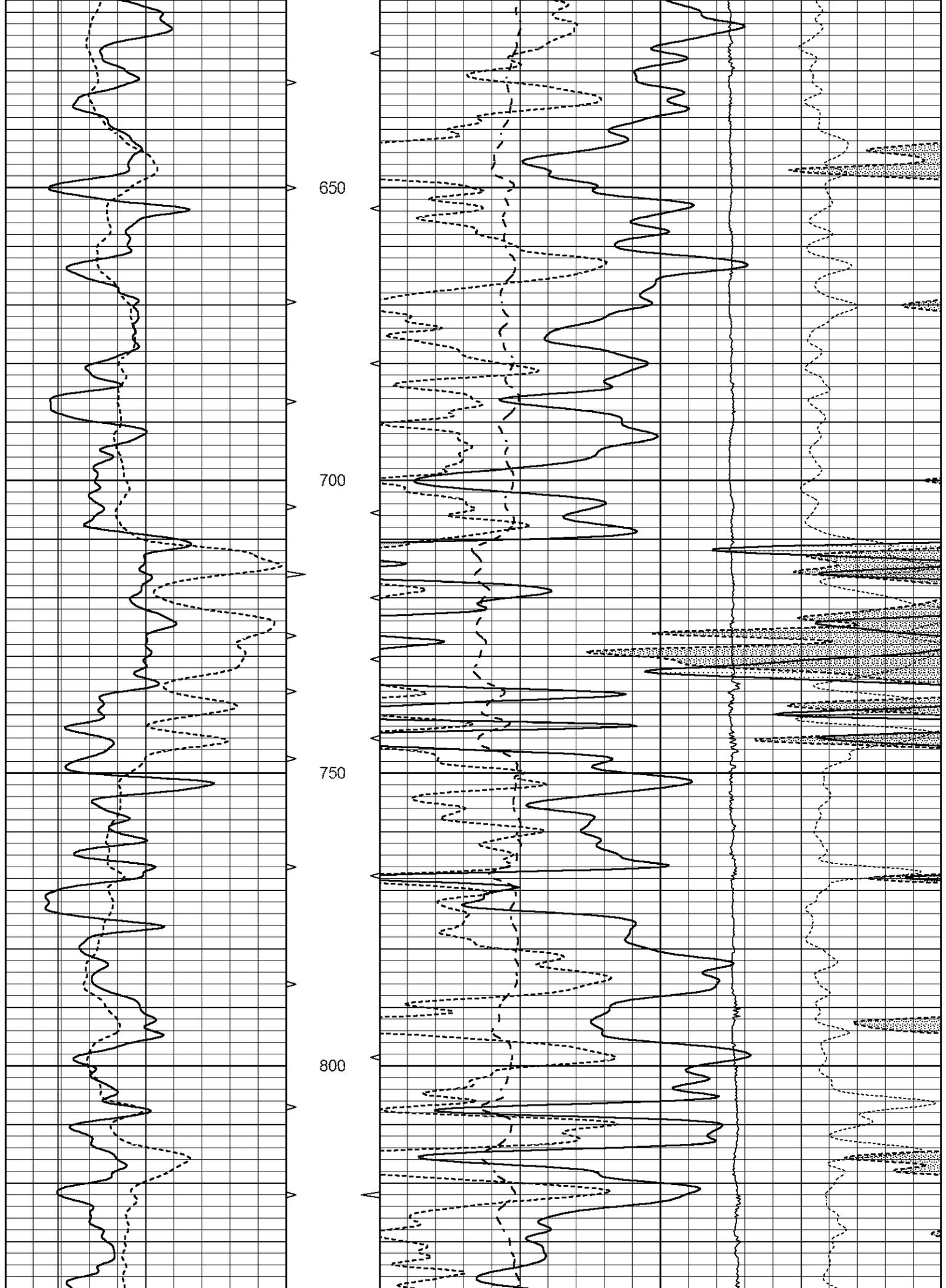
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 Presentation Format _ldt_neu
 Dataset Creation Mon Mar 14 11:29:58 2022
 Charted by Depth in Feet scaled 1:240

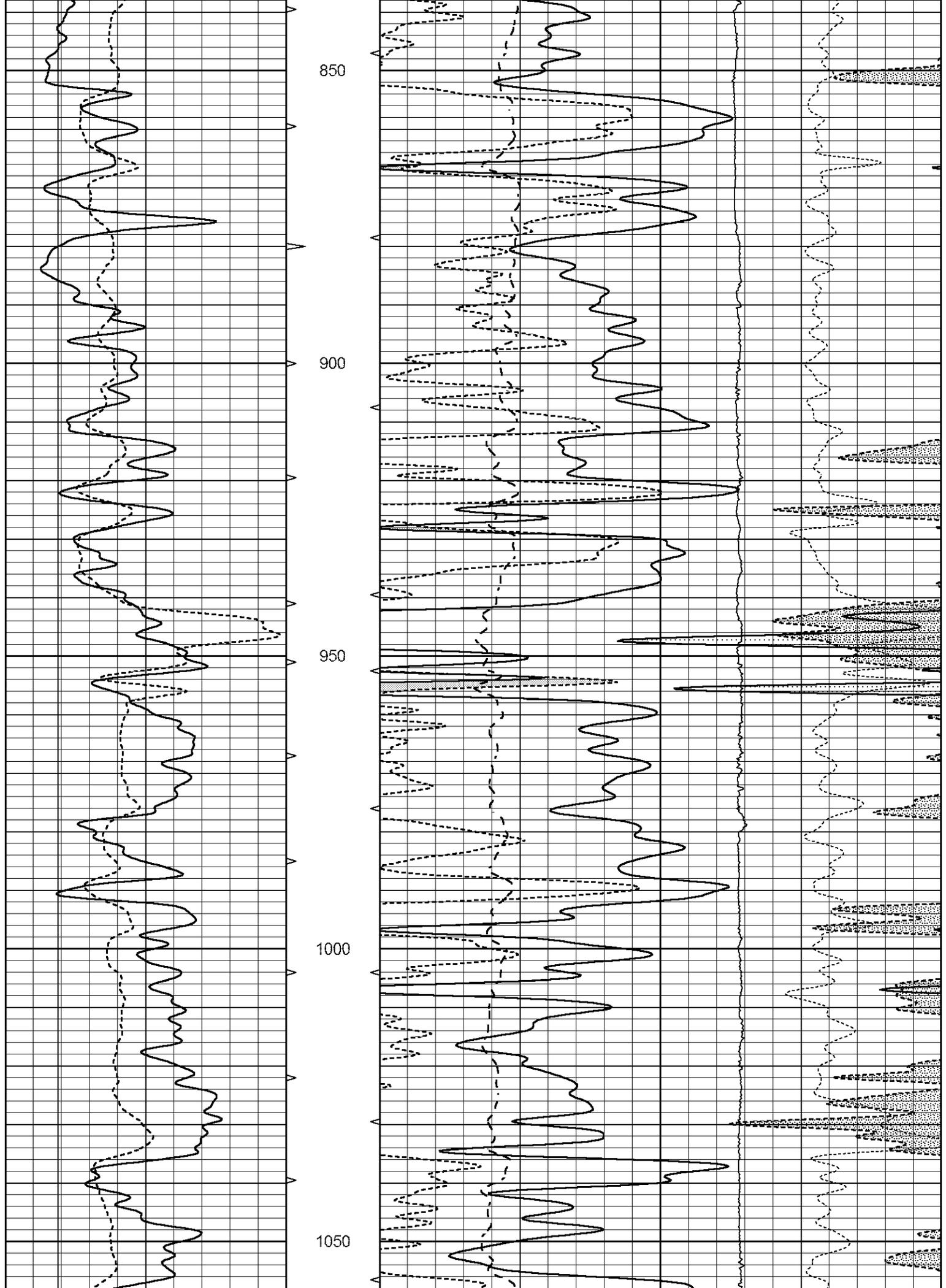
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|---|------------------|-----|------------|-------------------|--------------------------|----------|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV | 30 | COMPENSATED DENSITY (pu) | -10 |
| 6 | CALIPER (in) | 16 | 10 (ft3) 0 | 30 | COMPENSATED NEUTRON (pu) | -10 |
| | | | TBHV | 0 | PE | 10 -0.25 |
| | | | 0 (ft3) 10 | CORRECTION (g/cc) | | 0.25 |
| | | | | | LTEN (lb) | 5000 |

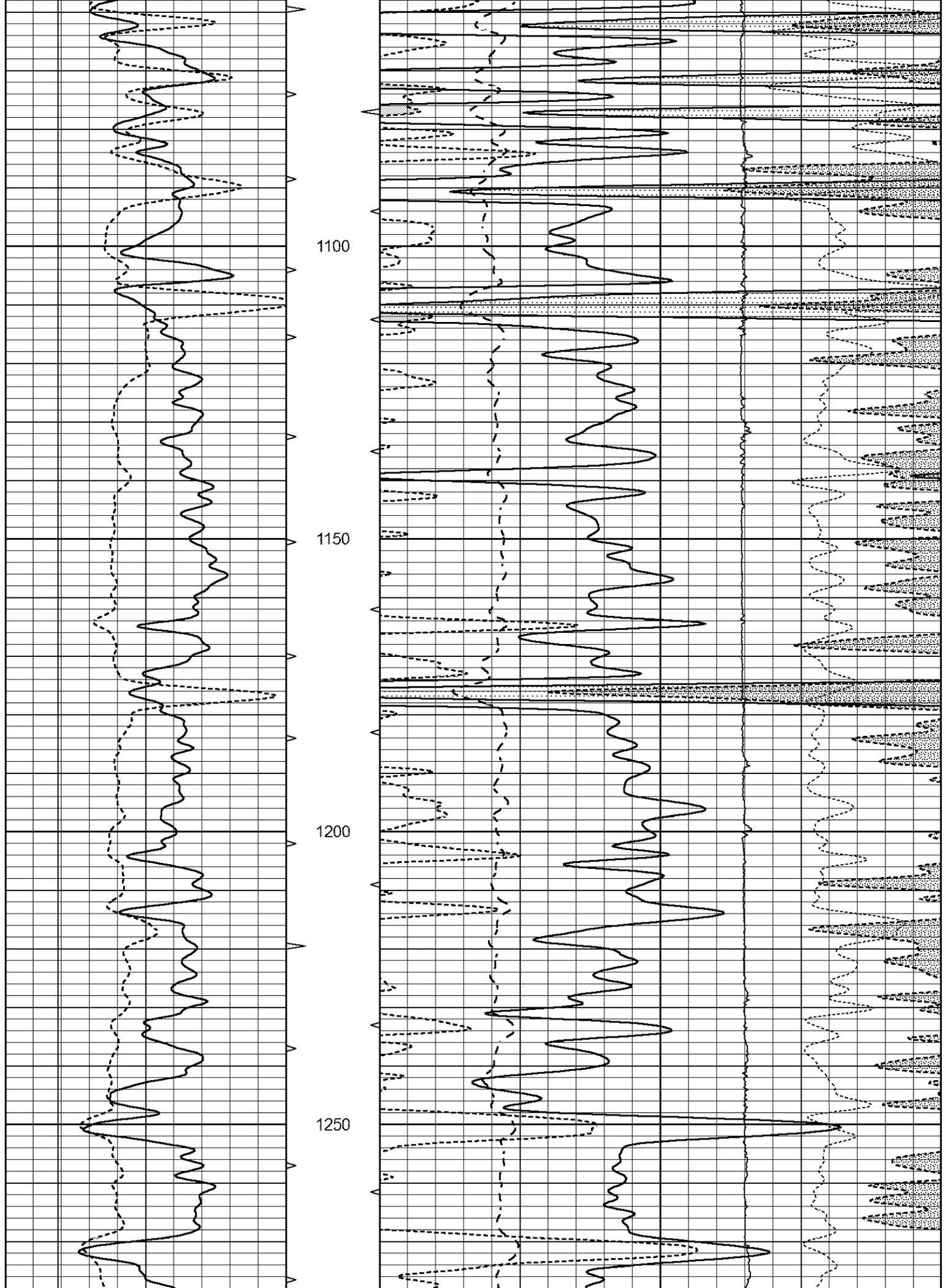


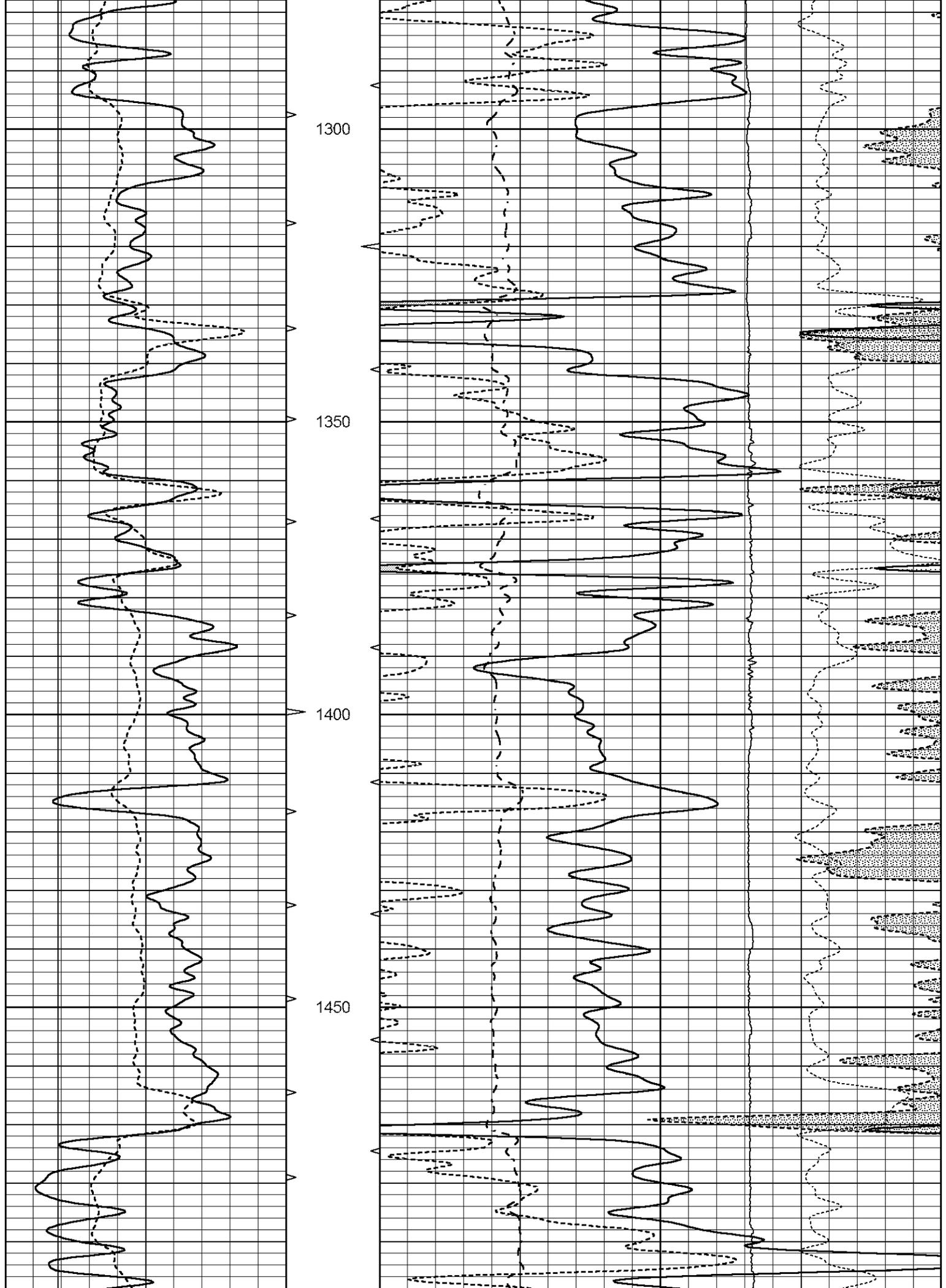


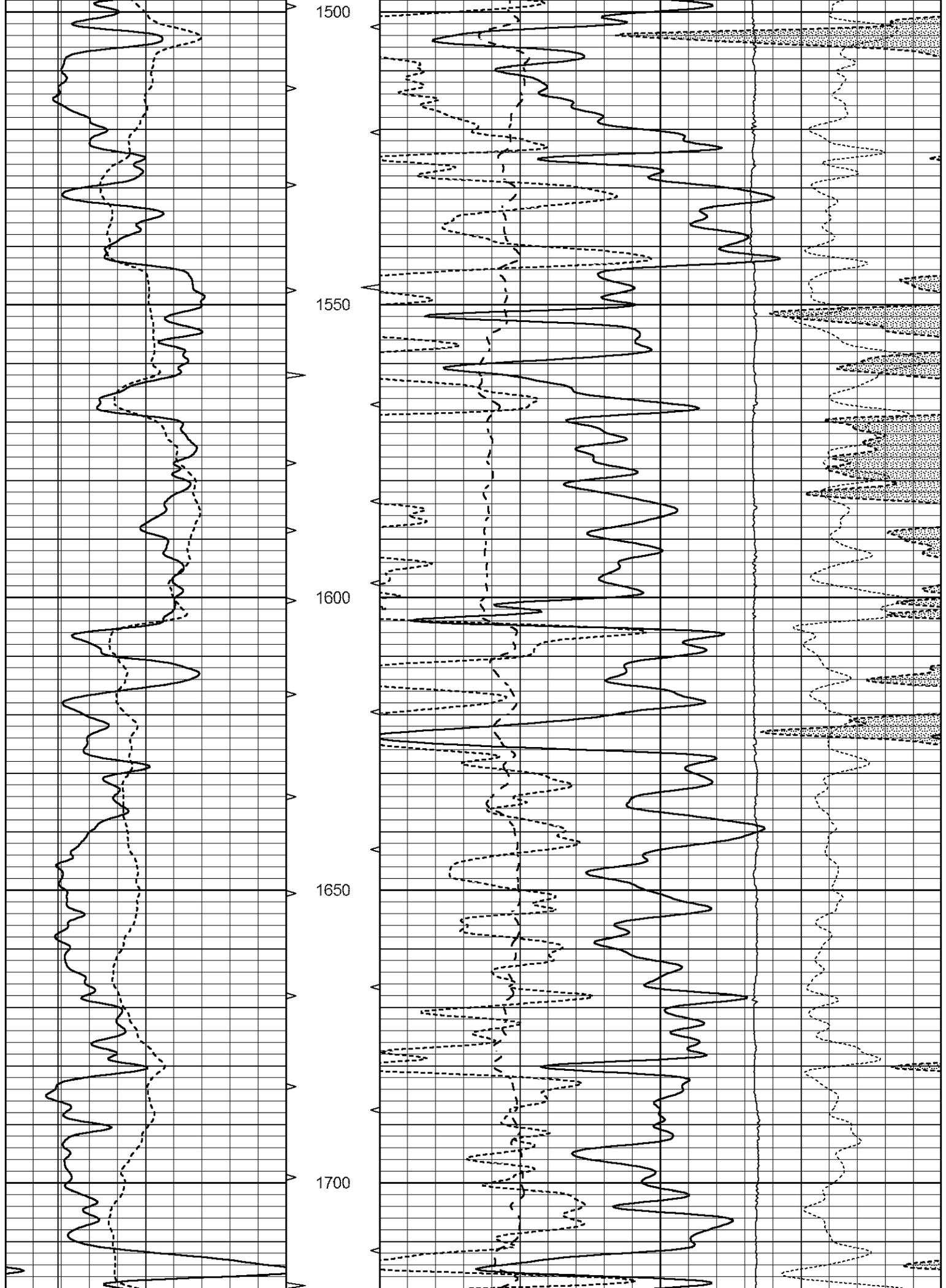


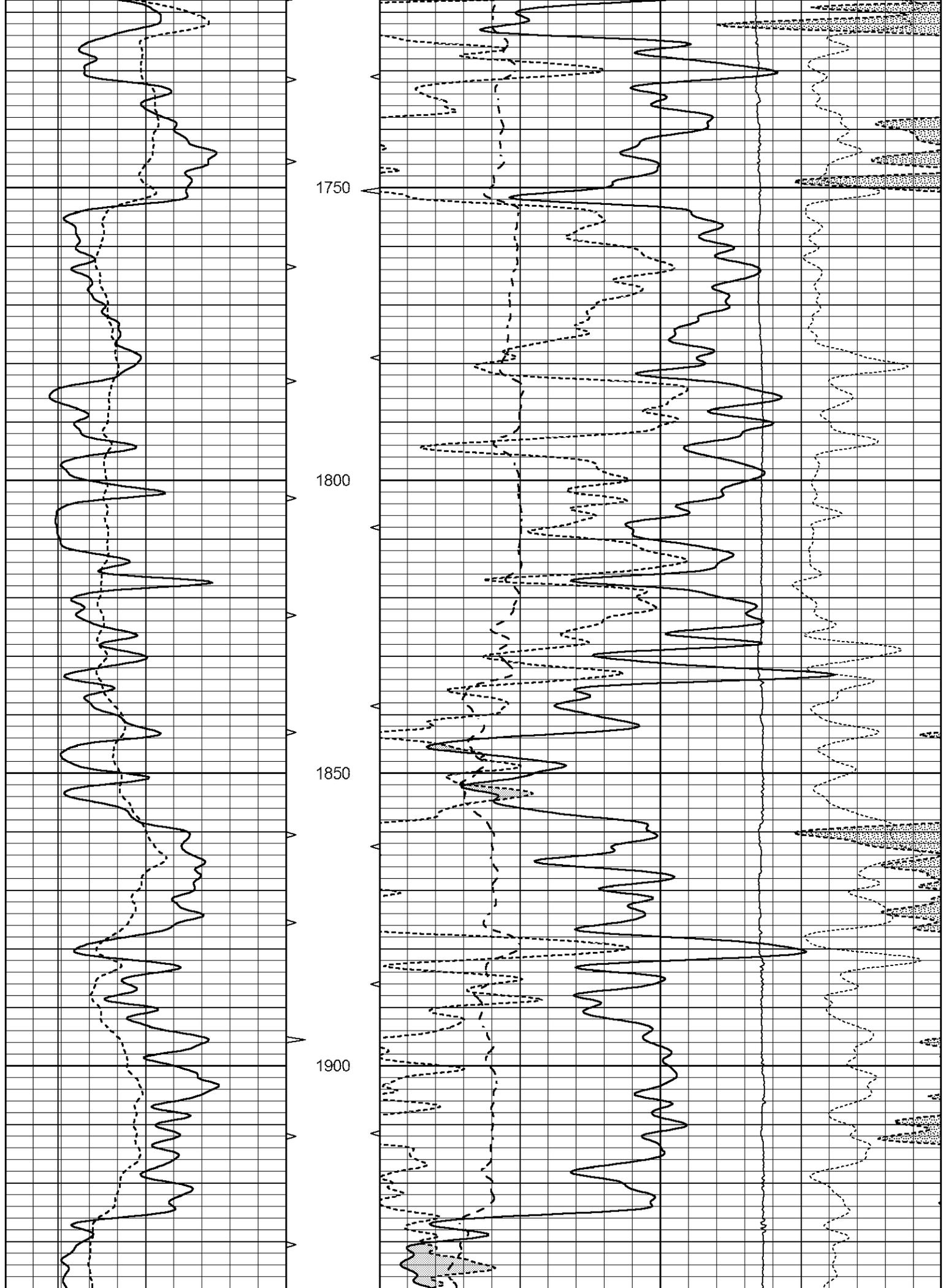


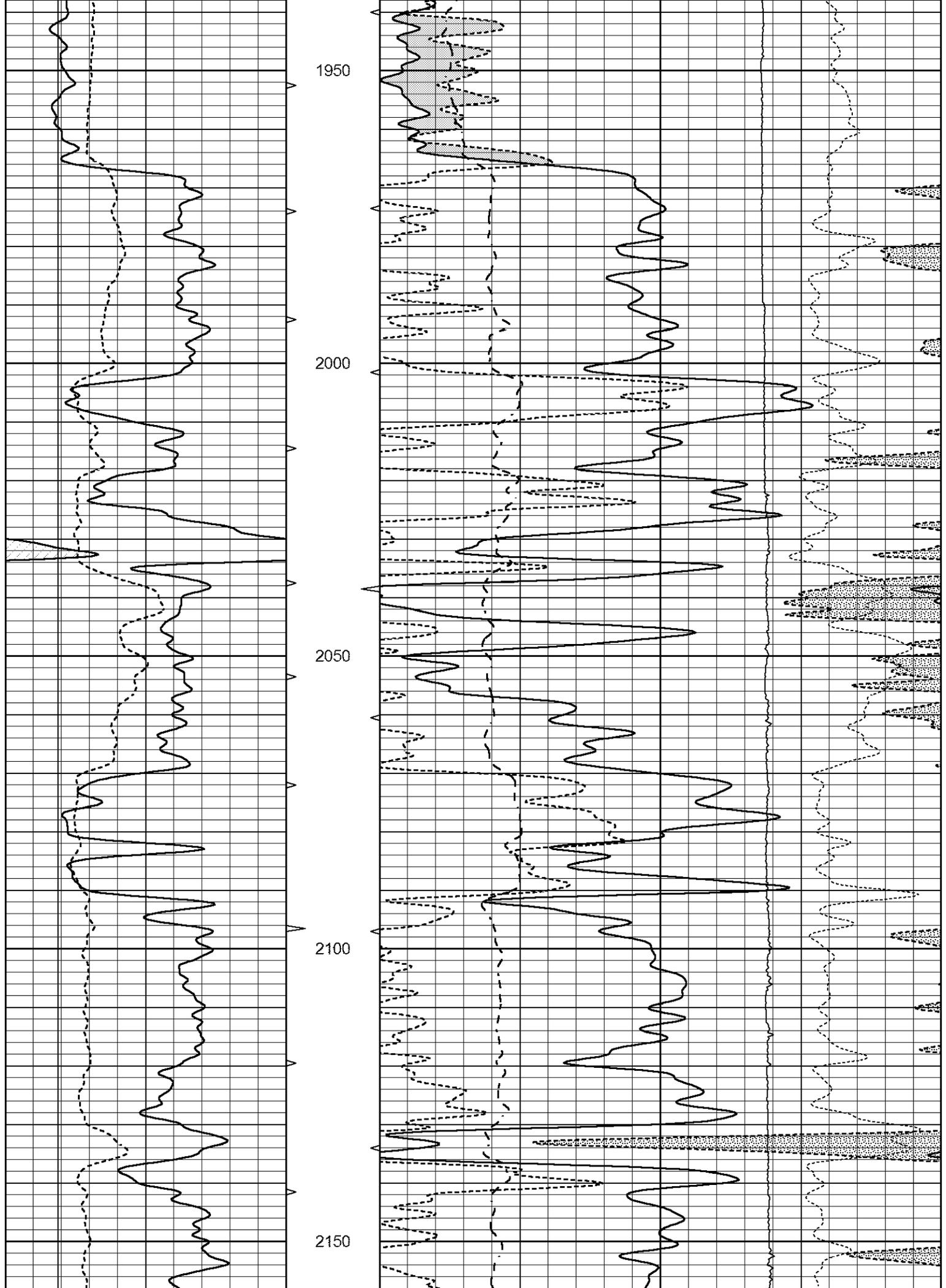


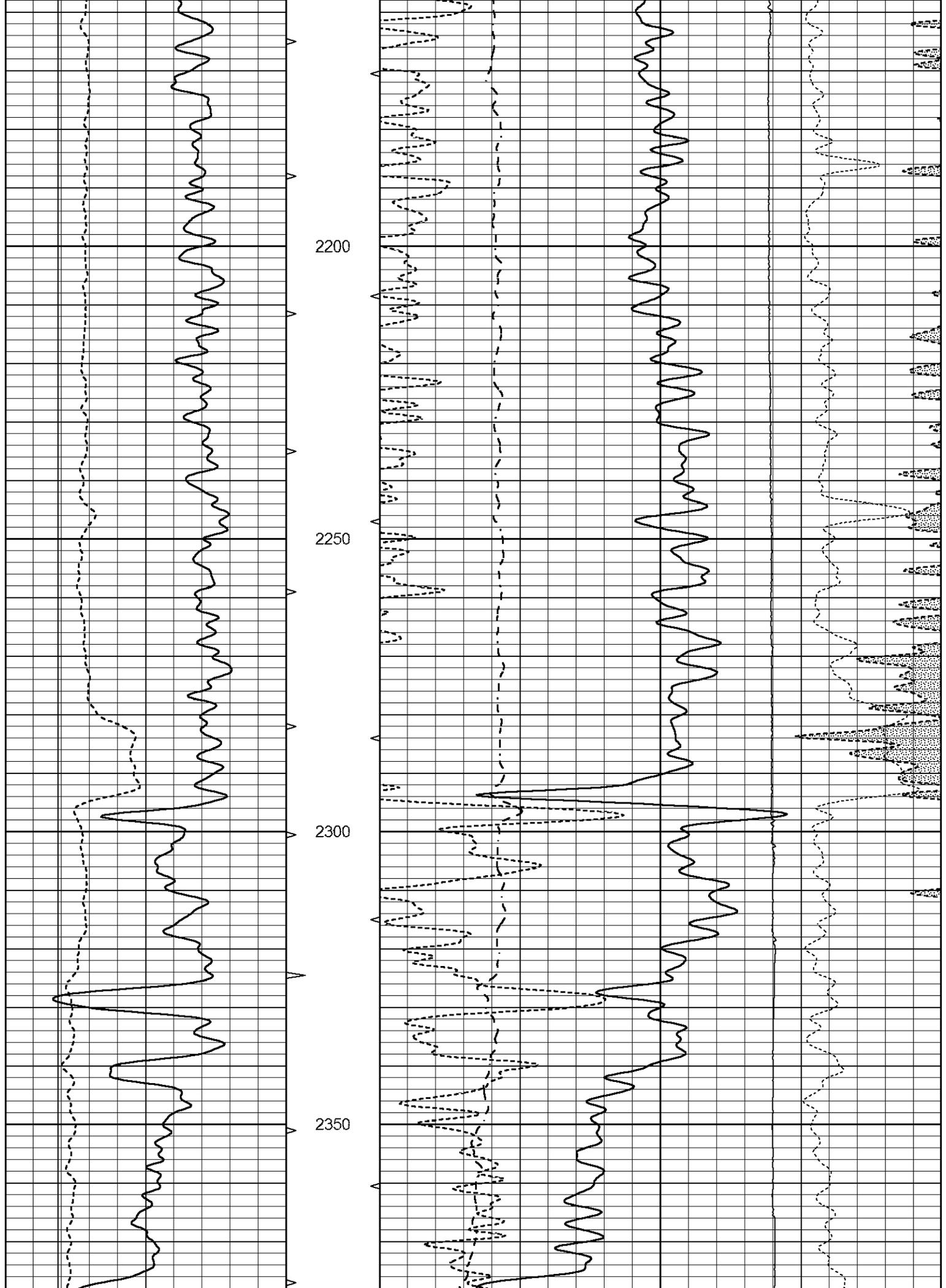


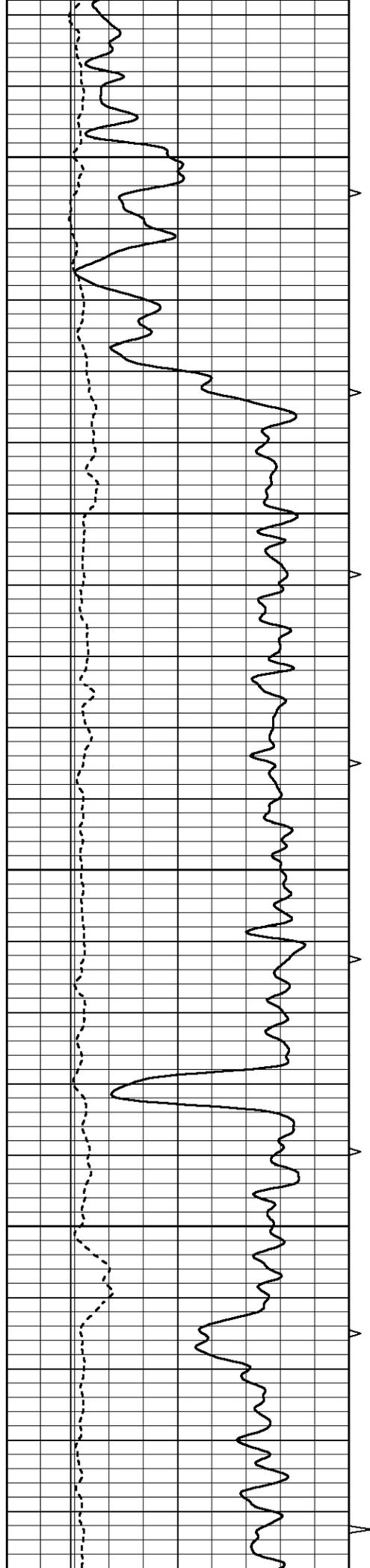










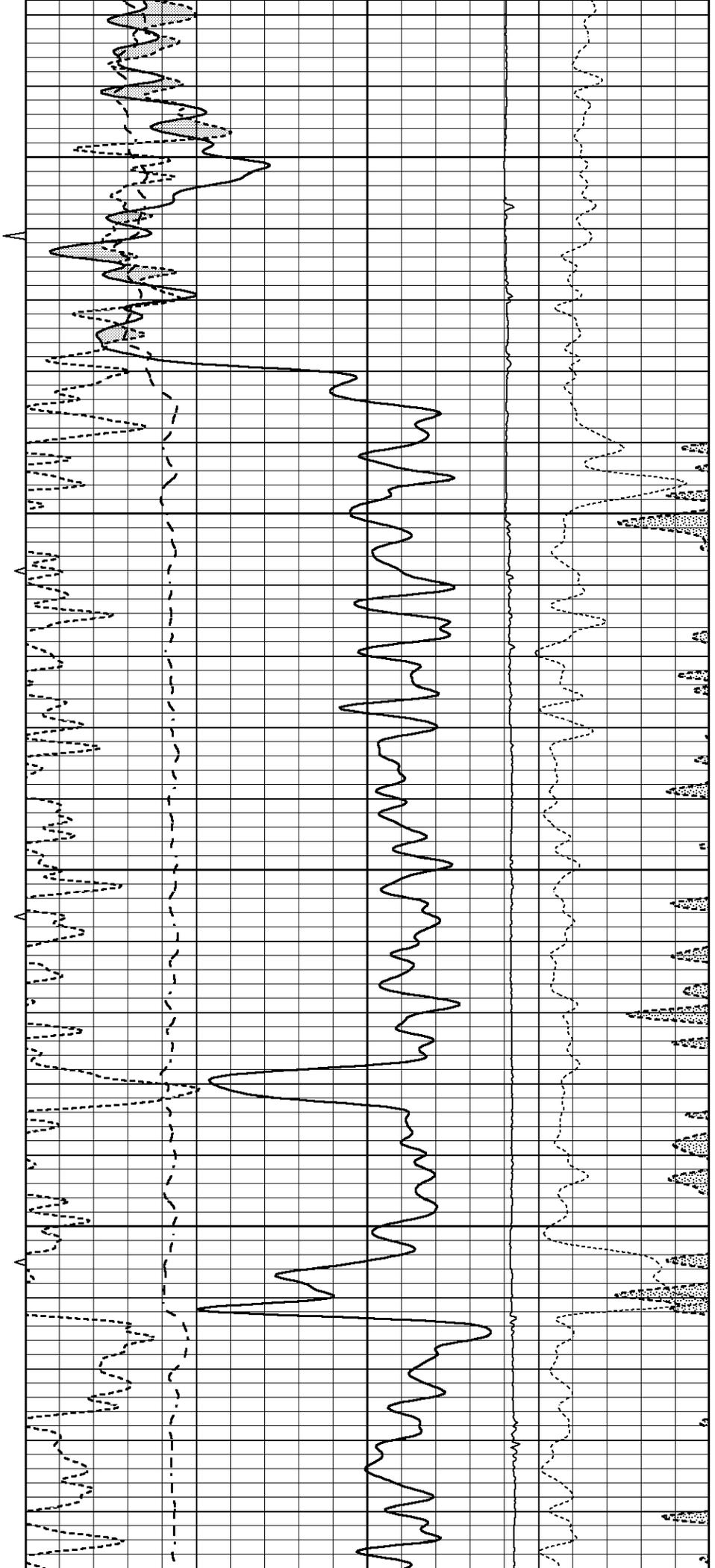


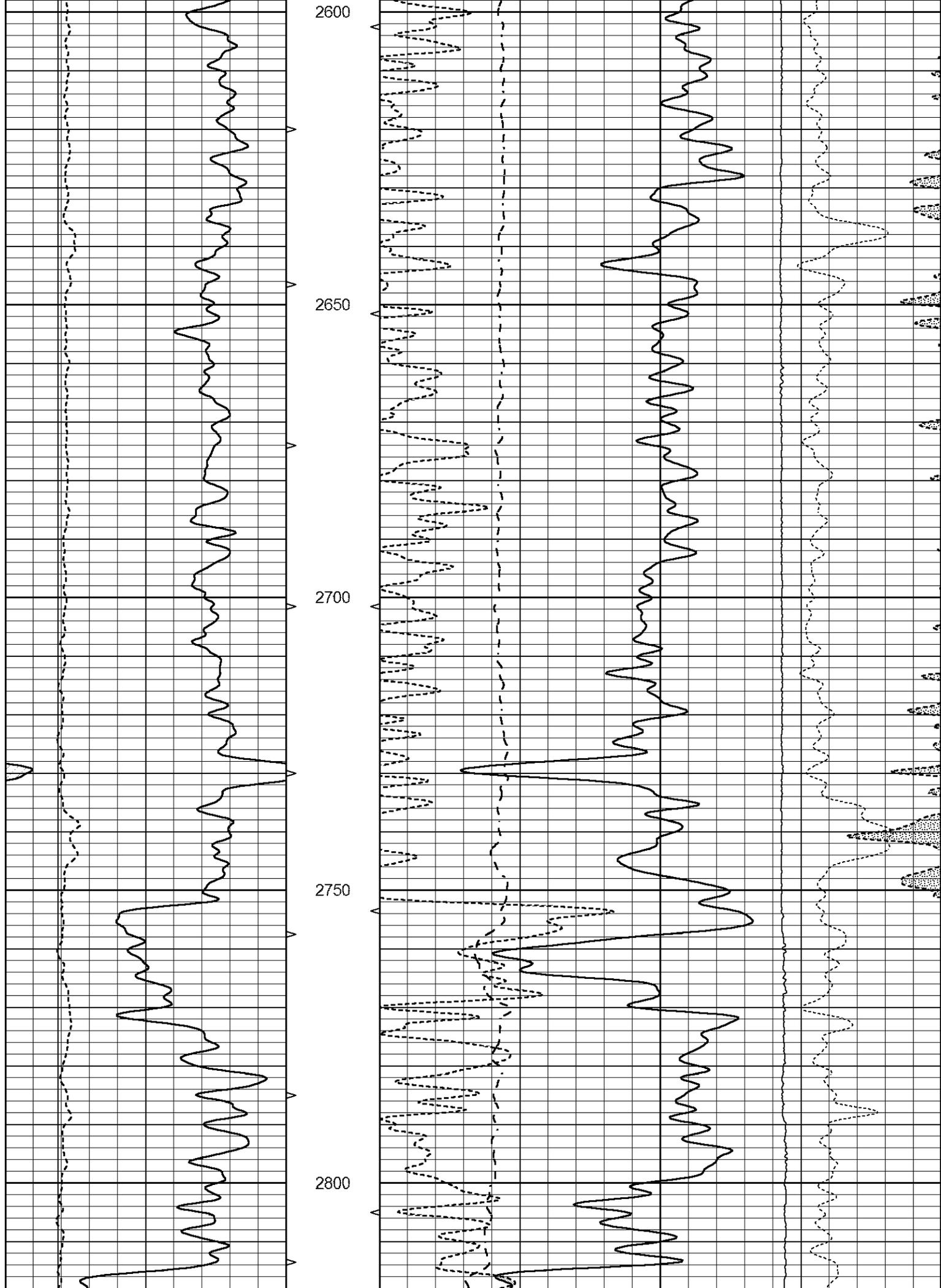
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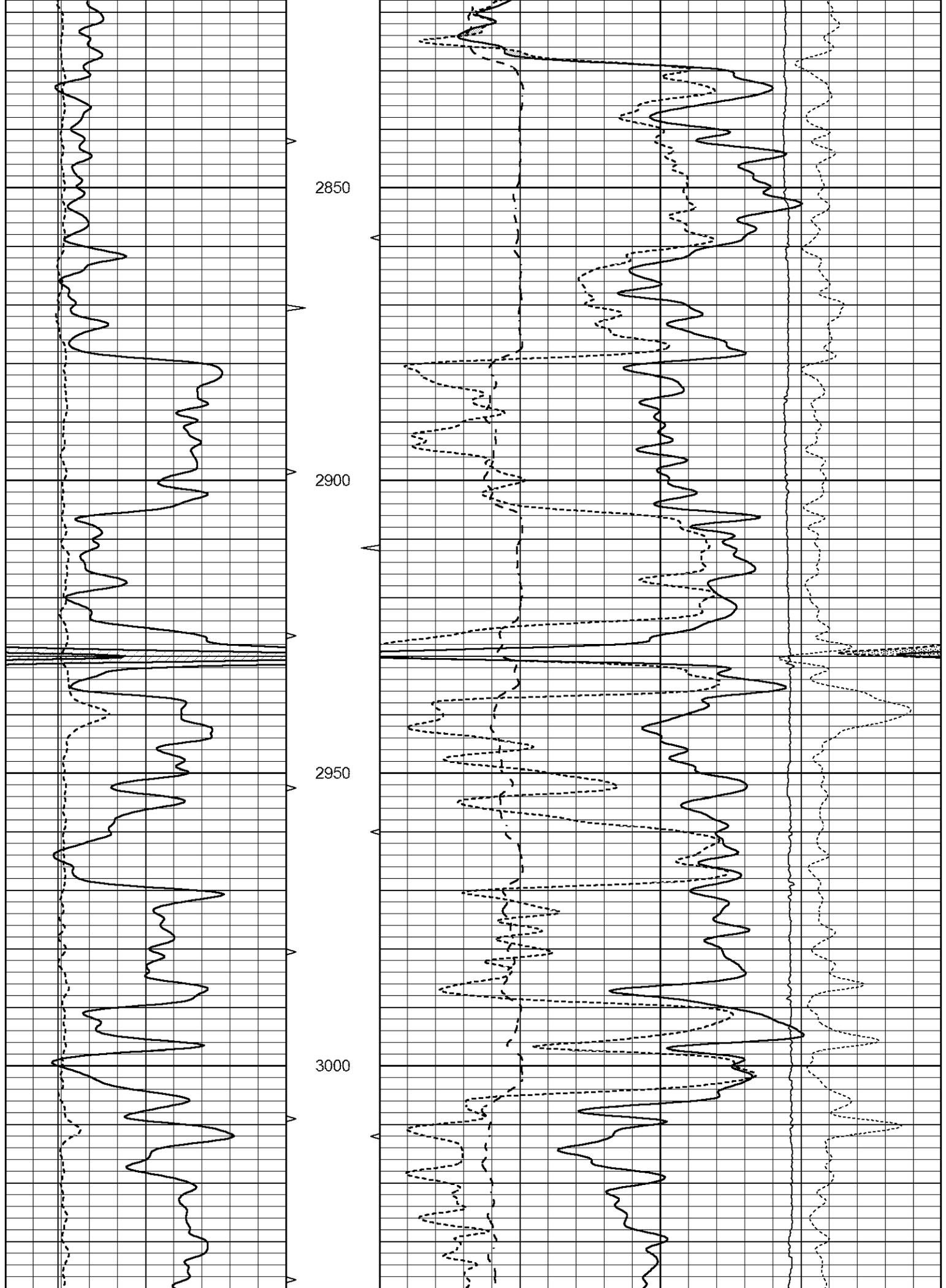
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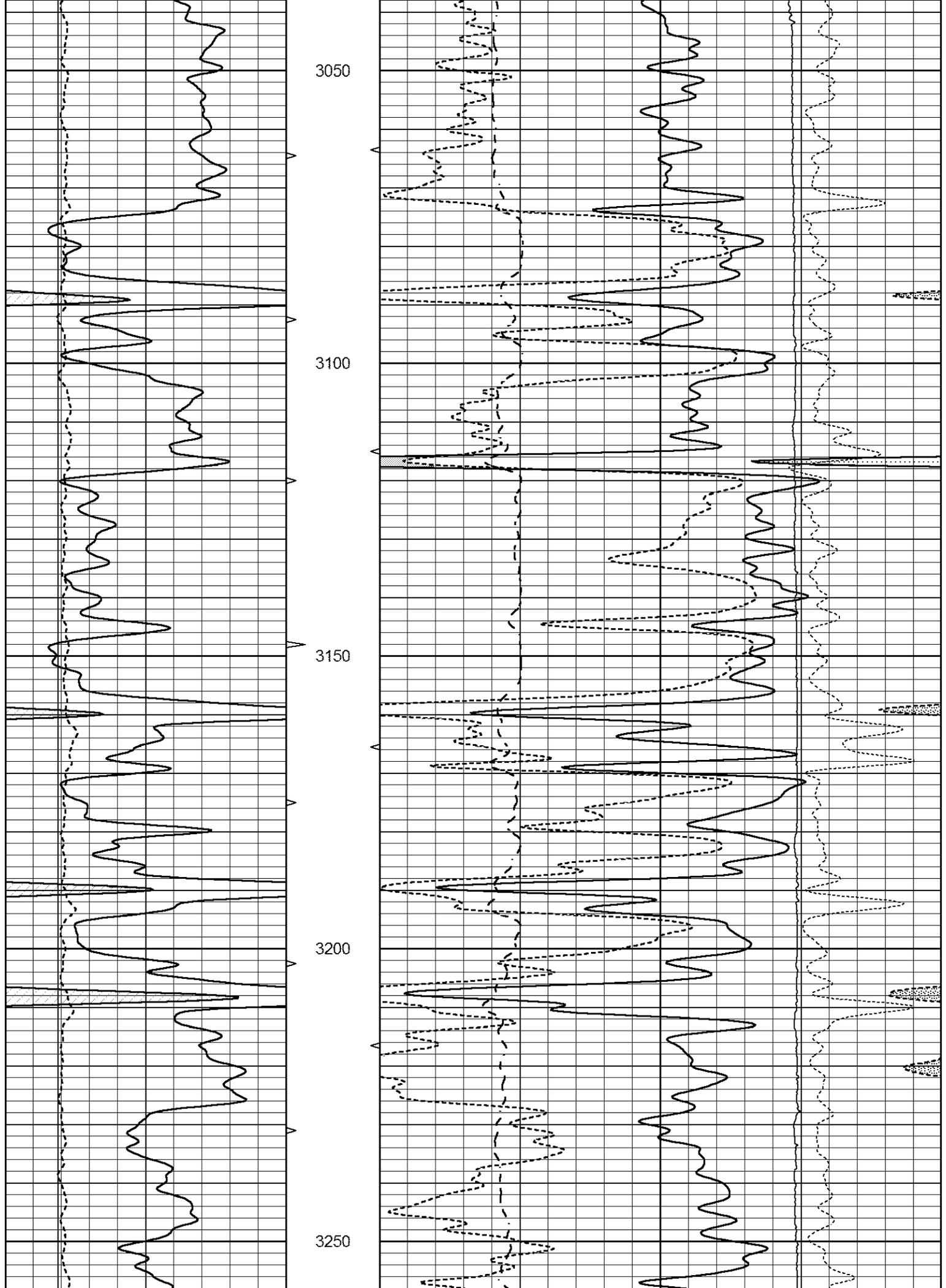
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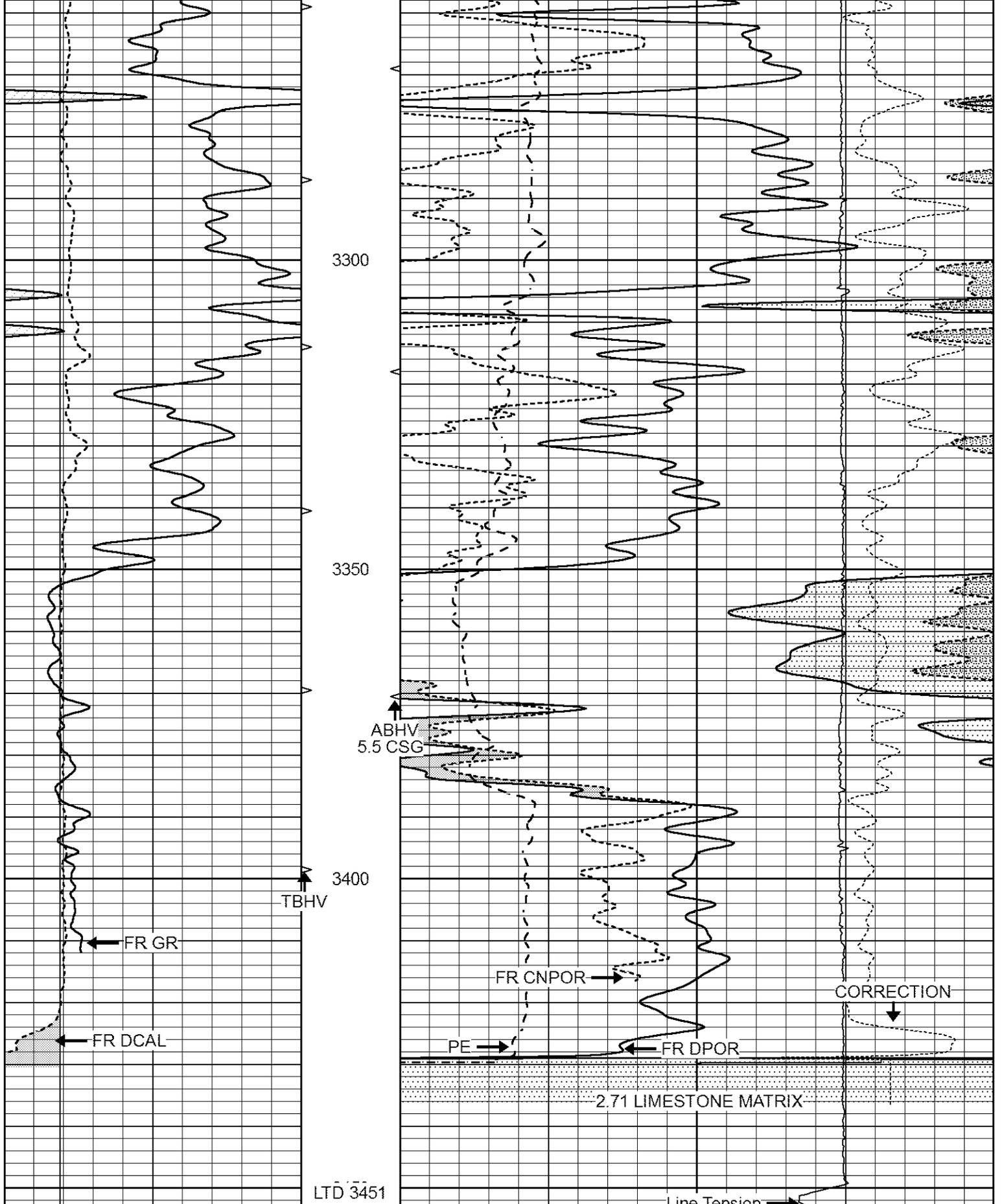
2550











3300

3350

3400

ABHV
5.5 CSG

TBHV

FR GR

FR DCAL

FR CNPOR

PE

FR DPOR

CORRECTION

2.71 LIMESTONE MATRIX

LTD 3451

Line Tension

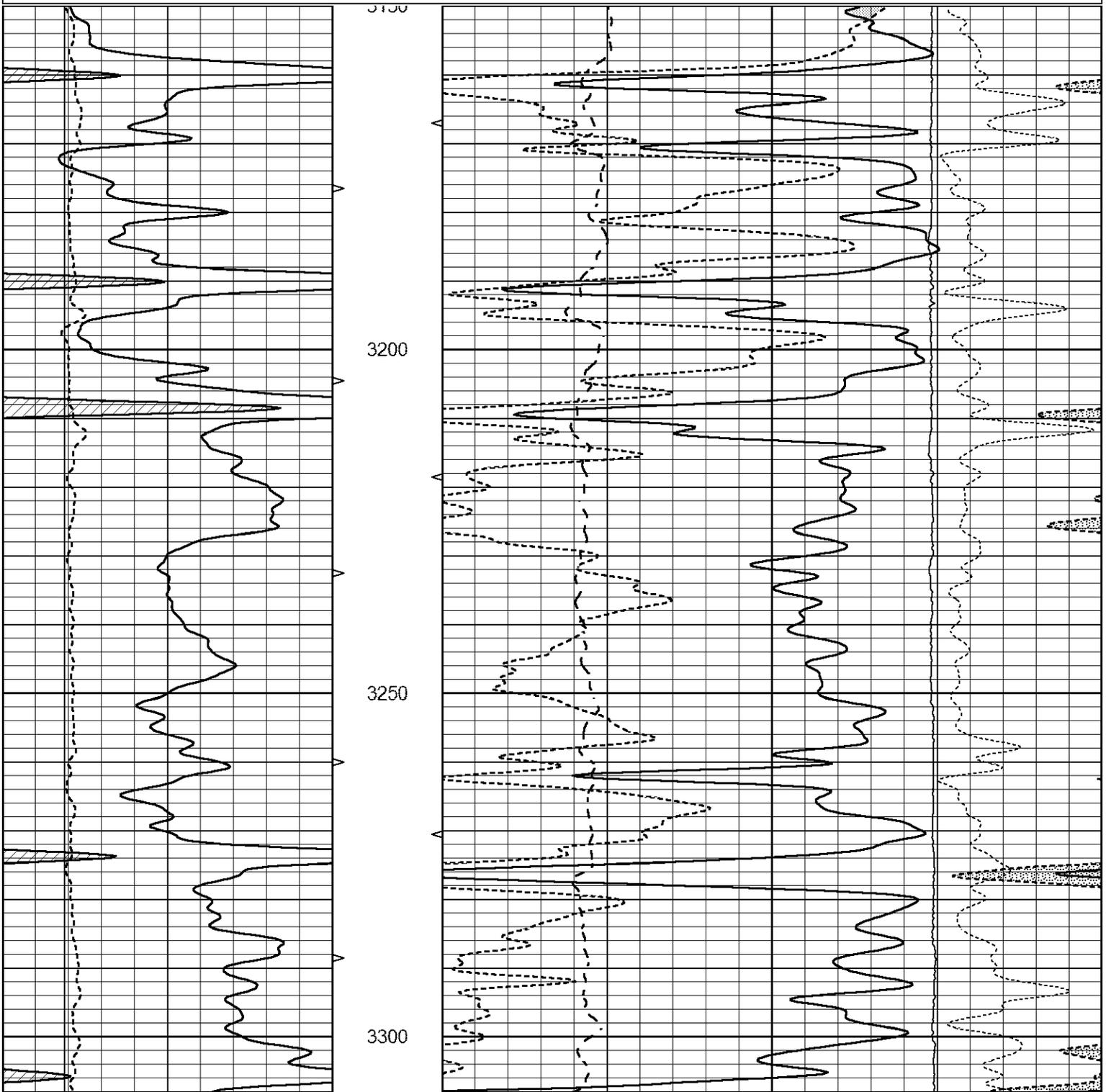
| | | | | | | |
|---|------------------|-----|----------|----|--------------------------|------------------------|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV | 30 | COMPENSATED DENSITY (pu) | -10 |
| 6 | CALIPER (in) | 16 | 10 (ft3) | 0 | COMPENSATED NEUTRON (pu) | -10 |
| | | | TBHV | 0 | PE | 10 -0.25 |
| | | | 0 (ft3) | 10 | | CORRECTION (g/cc) 0.25 |
| | | | | | | LTEN (lb) 5000 |

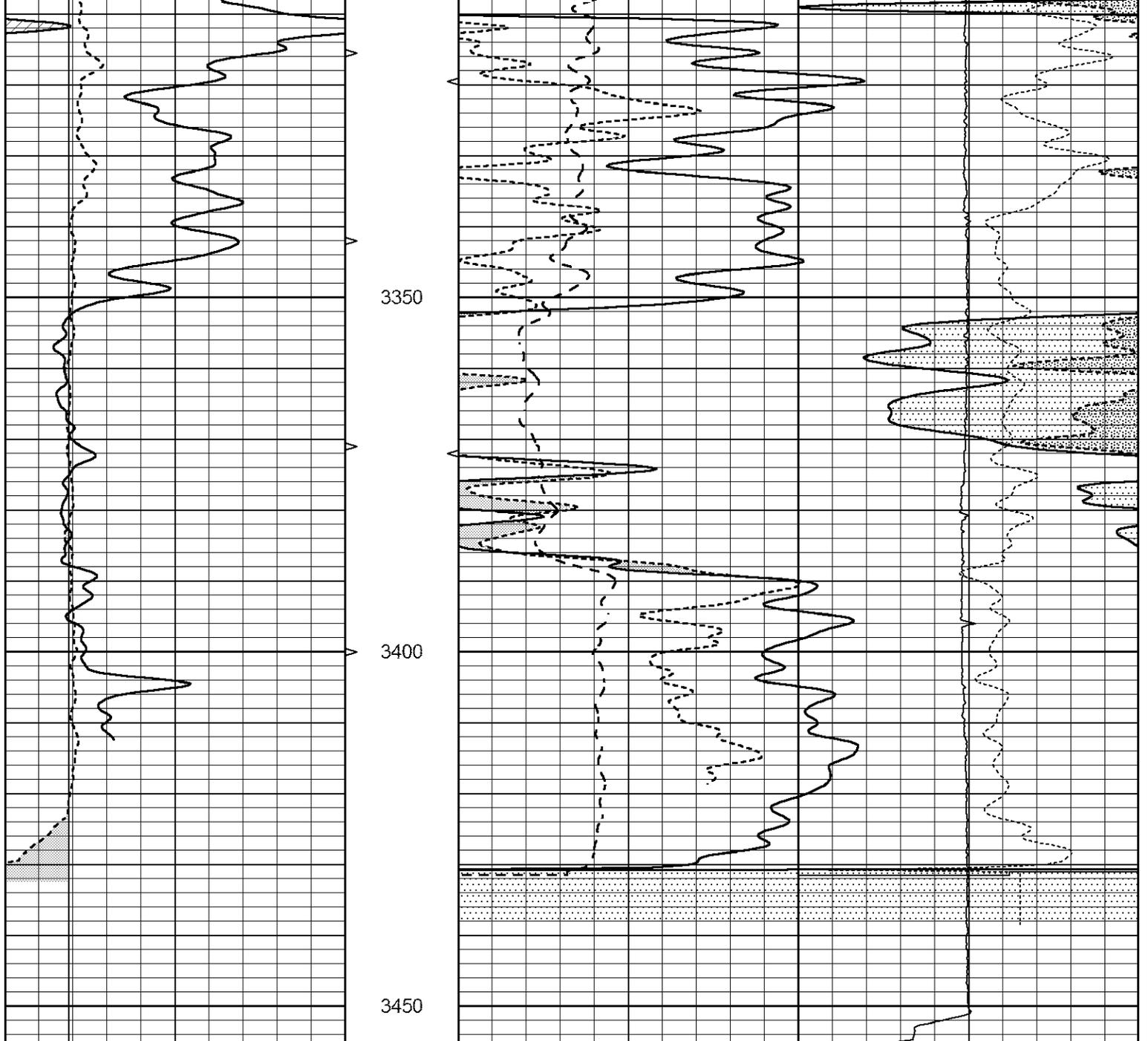


REPEAT SECTION

Database File 6250pe.db
 Dataset Pathname pass2.1
 Presentation Format _ldt_neu
 Dataset Creation Mon Mar 14 10:22:14 2022
 Charted by Depth in Feet scaled 1:240

| | | | | | | |
|---|------------------|-----|----------|------|--------------------------|---------------------------------|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV | 30 | COMPENSATED DENSITY (pu) | -10 |
| 6 | CALIPER (in) | 16 | 10 (ft3) | 0 30 | COMPENSATED NEUTRON (pu) | -10 |
| | | | TBHV | 0 | PE | 10 -0.25 CORRECTION (g/cc) 0.25 |
| | | | 0 (ft3) | 10 | | 0 LTEN (lb) 5000 |





| | | | | | | |
|---|------------------|-----|------------|----|--------------------------|------------------------|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV | 30 | COMPENSATED DENSITY (pu) | -10 |
| 6 | CALIPER (in) | 16 | 10 (ft3) 0 | 30 | COMPENSATED NEUTRON (pu) | -10 |
| | | | TBHV | 0 | PE | 10 -0.25 |
| | | | 0 (ft3) 10 | | | CORRECTION (g/cc) 0.25 |
| | | | | | | 0 LTEN (lb) 5000 |

Calibration Report

Database File 6250pe.db
 Dataset Pathname pass3.2
 Dataset Creation Mon Mar 14 11:29:58 2022

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Sat Jan 29 11:57:42 2022
 Downhole Cal Performed: Tue Feb 19 11:44:24 2019
 After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Surface Calibration

Readings

References

Results

| Loop: | Air | Loop | | Air | Loop | | m | b |
|-----------|--------|-------|---|-------|---------|--------|---------|--------|
| Deep | 0.011 | 0.656 | V | 1.000 | 400.000 | mmho/m | 618.595 | -5.524 |
| Medium | -0.000 | 0.731 | V | 1.000 | 464.000 | mmho/m | 632.856 | 1.197 |
| Internal: | Zero | Cal | | Zero | Cal | | m | b |
| Deep | 0.007 | 0.649 | V | 0.000 | 400.000 | mmho/m | 623.784 | -4.595 |
| Medium | 0.004 | 0.743 | V | 0.000 | 464.000 | mmho/m | 627.284 | -2.251 |

| Downhole Calibration | | | | | | | | |
|----------------------|----------|---------|--------|------------|----------|--------|---------|--------|
| | Readings | | | References | | | Results | |
| | Zero | Cal | | Zero | Cal | | m' | b' |
| Deep | -0.824 | 395.917 | mmho/m | -0.976 | 397.550 | mmho/m | 1.004 | -0.149 |
| Medium | 3.565 | 471.327 | mmho/m | 3.468 | 471.590 | mmho/m | 1.001 | -0.099 |
| LL3 | | 7.503 | V | | 1500.000 | Ohm-m | | |
| | | 0.001 | V | | 20.000 | Ohm-m | | |
| | | -7.481 | V | | 3745.000 | mmho-m | | |

| After Survey Verification | | | | | | | | |
|---------------------------|----------|-------|--------|---------|----------|--------|---------|-------|
| | Readings | | | Targets | | | Results | |
| | Zero | Cal | | Zero | Cal | | m' | b' |
| Deep | 0.000 | 0.000 | mmho/m | -0.824 | 395.917 | mmho/m | 1.000 | 0.000 |
| Medium | 0.000 | 0.000 | mmho/m | 3.565 | 471.327 | mmho/m | 1.000 | 0.000 |
| LL3 | | 0.000 | Ohm-m | | 1500.000 | Ohm-m | | |
| | | 0.000 | Ohm-m | | 20.000 | Ohm-m | | |
| | | 0.000 | mmho-m | | 3745.000 | mmho-m | | |

Litho Density Calibration Report
Serial: 140704
Model: V4_10P
Source Number: 74GBq-19

| Master Calibration | | | | Performed: Fri Feb 18 15:41:27 2022 | | | |
|--------------------|---------------|-----------|--------------|-------------------------------------|--|----------|--|
| | Background | Aluminum | | Magnesium | | | |
| Window 1 | 515.75 | 5443.58 | | 23734.91 | | cps | |
| Window 2 | 41.45 | 1226.32 | | 5757.32 | | cps | |
| Window 4 | 224.78 | 1223.03 | | 5315.97 | | cps | |
| Window 5 | 549.25 | 7983.61 | | 15349.73 | | cps | |
| Window 6 | 43.12 | 1271.88 | | 2496.98 | | cps | |
| Window 8 | 261.02 | 2595.65 | | 4928.92 | | cps | |
| Bulk Density | - | 2.6020 | | 1.6830 | | g/cc | |
| Pe | - | 3.0000 | | 2.5070 | | b/e | |
| LS Alpha: | : -1.8571 | SS Alpha: | : -0.7875 | LS CPE: | | : 1.1396 | |
| LS Beta: | : 128618.9672 | SS Beta: | : 18780.4869 | SS CPE: | | : 1.5966 | |

| Before Survey Background Counts Verification | | | Performed: Wed Dec 31 18:00:00 1969 | | |
|--|------|-----|-------------------------------------|--|--|
| Window 1 | 0.00 | cps | | | |
| Window 2 | 0.00 | cps | | | |
| Window 4 | 0.00 | cps | | | |
| Window 5 | 0.00 | cps | | | |
| Window 6 | 0.00 | cps | | | |
| Window 8 | 0.00 | cps | | | |

After Survey Background Counts Verification Performed: Wed Dec 31 18:00:00 1969

| | | |
|----------|------|-----|
| Window 1 | 0.00 | cps |
| Window 2 | 0.00 | cps |
| Window 4 | 0.00 | cps |
| Window 5 | 0.00 | cps |
| Window 6 | 0.00 | cps |
| Window 8 | 0.00 | cps |

Lithodensity Caliper Calibration

Performed: Fri Feb 18 15:41:27 2022

| Results | | Readings | | References (in) | | Gain | Offset |
|---------|---------|----------|------|-----------------|--|------|--------|
| Low | High | Low | High | | | | |
| 8107.9 | 11082.1 | 8.0 | 14.0 | | | 0.0 | -7.7 |

Before Survey Caliper Verification

Performed:

| Reference | Reading |
|--------------|---------|
| _____ | _____ |
| Caliper (in) | |

After Survey Caliper Verification

Performed:

| Reference | Reading |
|--------------|---------|
| _____ | _____ |
| Caliper (in) | |

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 Jan 19 17:50:08 2021

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5300 GAPI/cps