



SUPERIOR  
Hays,  
Kansas

COMPENSATED  
DENSITY / NEUTRON  
PE LOG

Company ATLAS OPERATING, LLC.  
Well GARDEN CITY #26-19  
Field DAMME  
County FINNEY  
State KANSAS

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Field DAMME  
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Location: API # : 15-055-22144-0000

1650' FNL & 1650' FEL

Other Services  
DIL/MEL

SEC 19 TWP 22S RGE 33W

Permanent Datum GROUND LEVEL Elevation 2900  
Log Measured From KELLY BUSHING 8' A.G.L.  
Drilling Measured From KELLY BUSHING

Elevation  
K.B. 2908  
D.F. 2906  
G.L. 2900

Date 6/4/12

Run Number ONE

Depth Driller 4950

Depth Logger 4971

Bottom Logged Interval 4947

Top Log Interval 3400

Casing Driller 8 5/8" @ 342'

Casing Logger 340

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.3/56

pH / Fluid Loss 10.0/8.8

Source of Sample FLOWLINE

Rm @ Meas. Temp .950 @ 70F

Rmt @ Meas. Temp .713 @ 70F

Rmc @ Meas. Temp 1.14 @ 70F

Source of Rmt / Rmc MEASUREMENT

Rm @ BHT .532 @ 125F

Time Circulation Stopped 4 HOURS

Time Logger on Bottom 9:45 A.M.

Maximum Recorded Temperature 125F

Equipment Number 4010

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By PAT DEENIHAN

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395  
DIRECTIONS

GARDEN CITY, KS. (HWY 83 & 400 JUNCTION) 6W. TO "BIG LOWE RD."(HOLCOMB, KS. EXIT) 8 1/2N.,  
1/2E. INTO AFTER TANK BATTERY, THEN N. & E. AGAIN

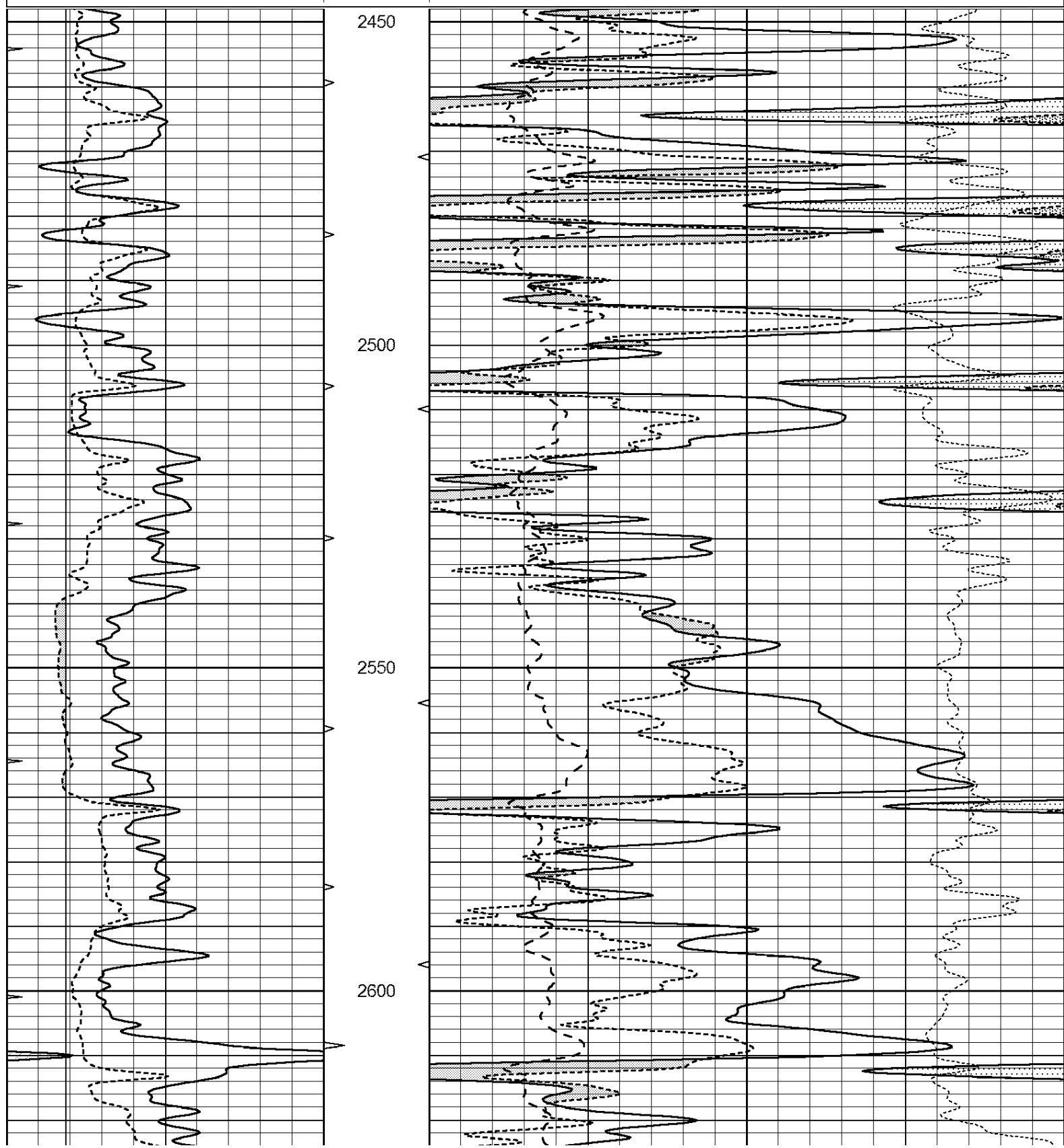


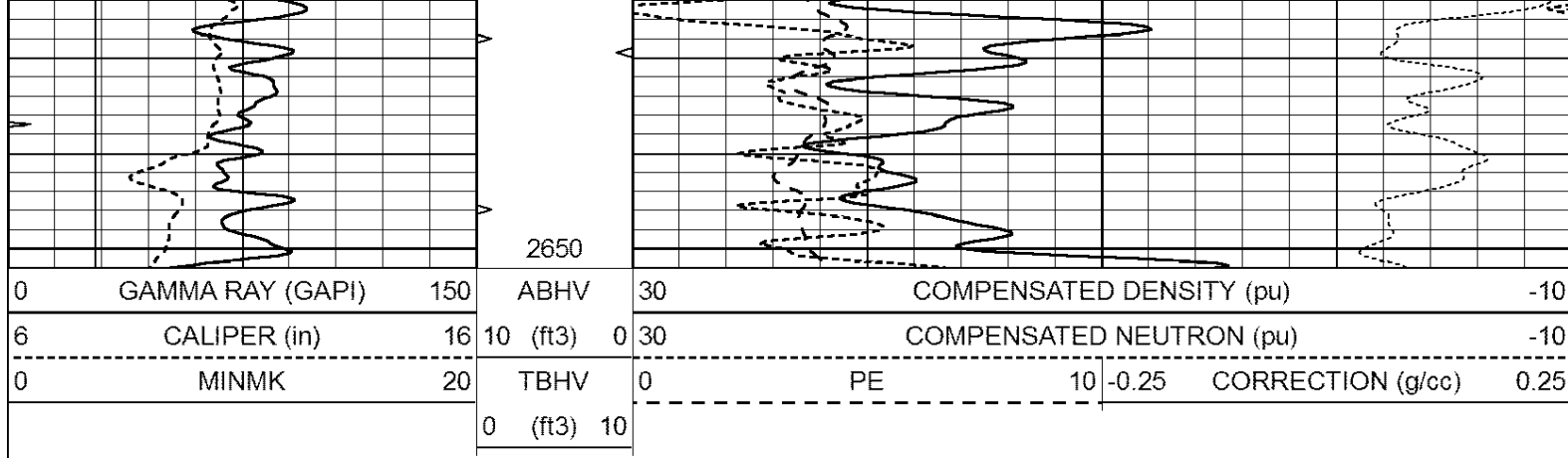
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UPPER SECTION

Database File: 409134pe.db  
Dataset Pathname: pass3.9  
Presentation Format: ldt\_neu  
Dataset Creation: Mon Jun 04 12:07:16 2012  
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  | COMPENSATED NEUTRON (pu) | -10                             |
| 0 | MINMK            | 20  | TBHV     | 0  | PE                       | 10 -0.25 CORRECTION (g/cc) 0.25 |
|   |                  |     | 0 (ft3)  | 10 |                          |                                 |

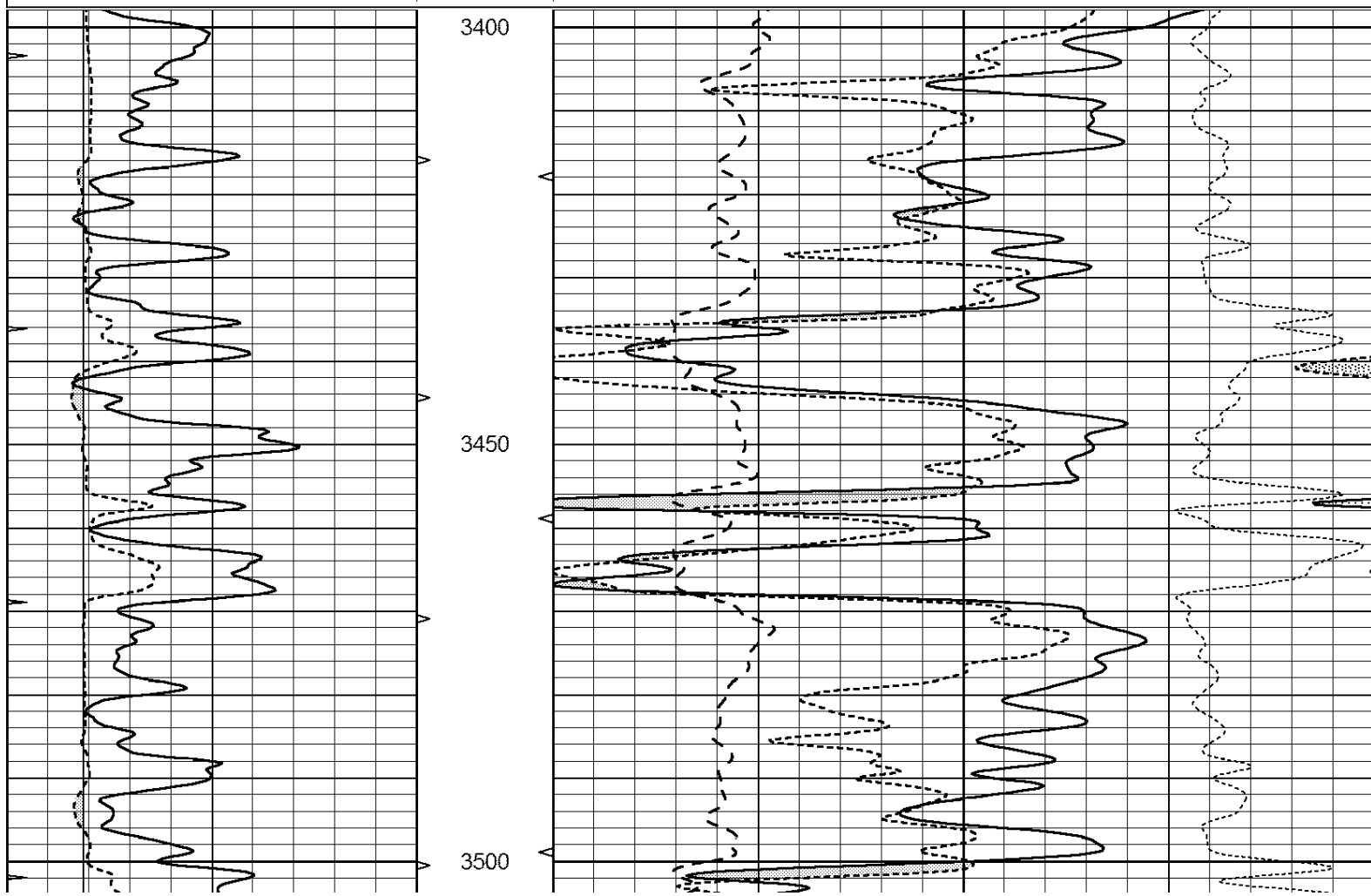
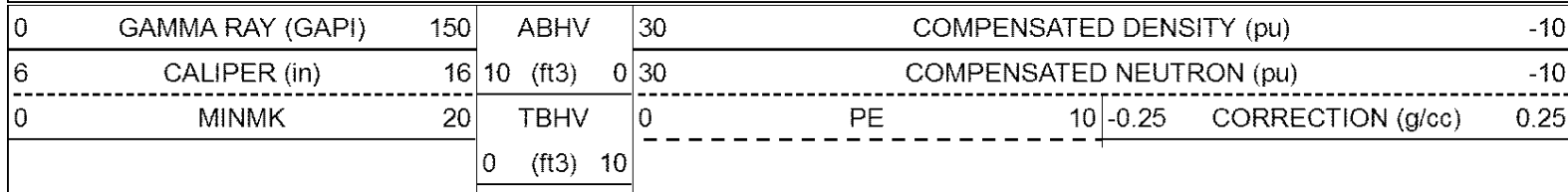


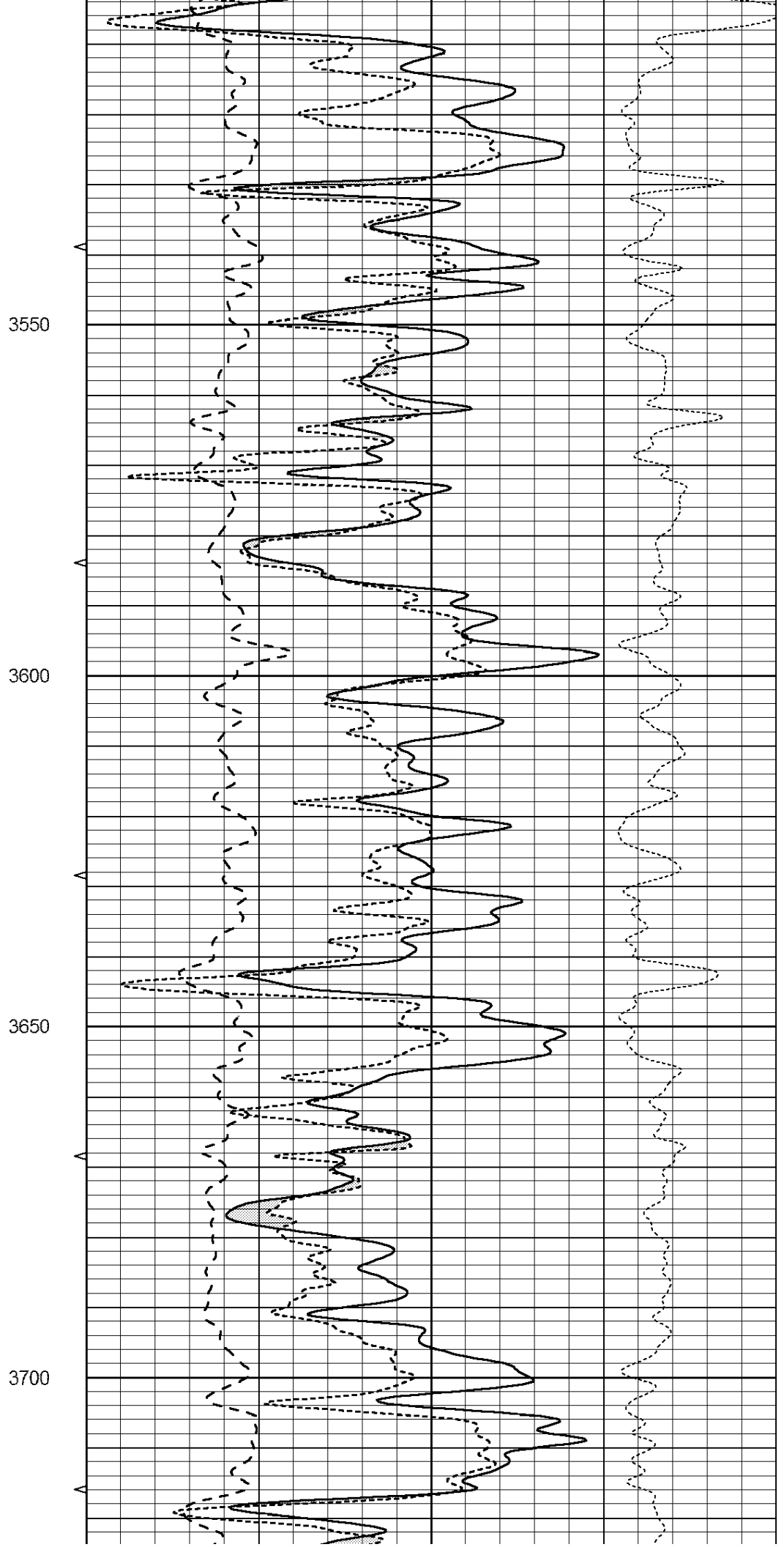
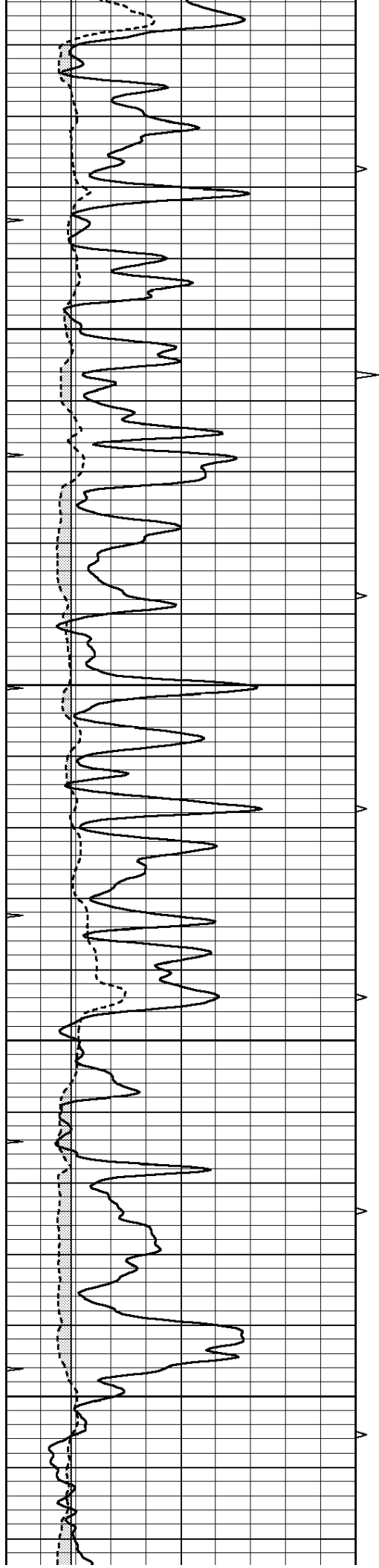


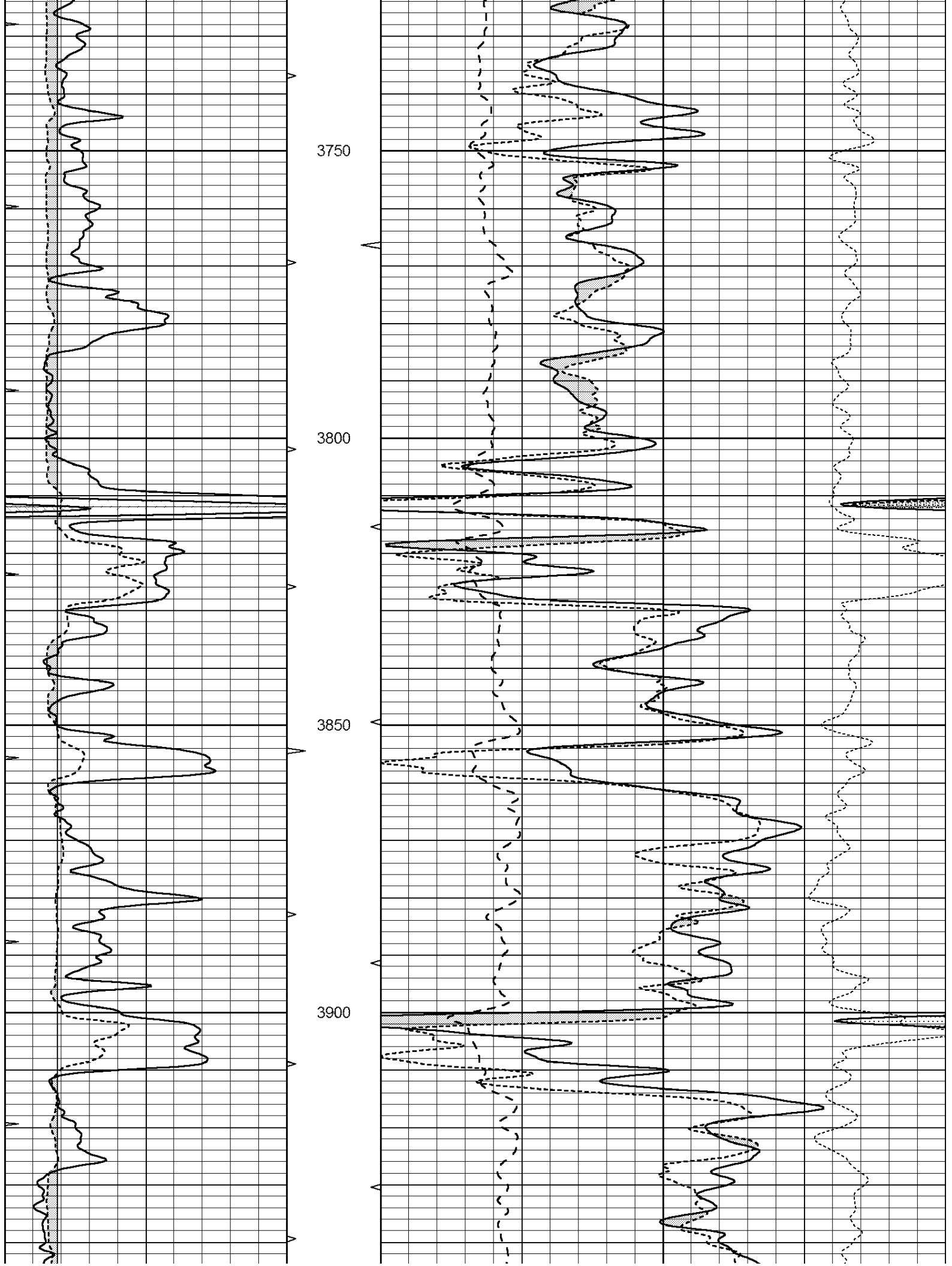
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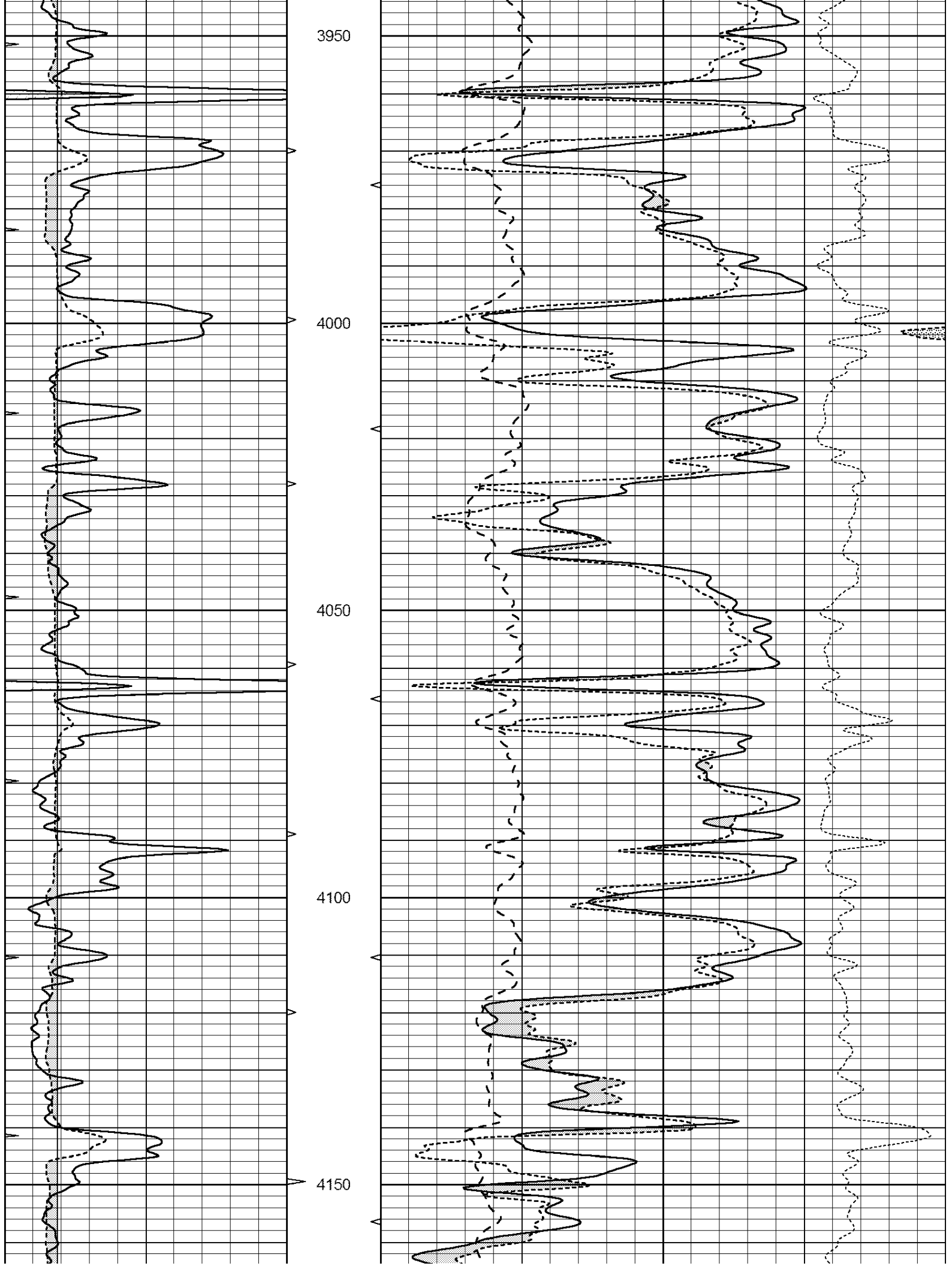
# MAIN SECTION

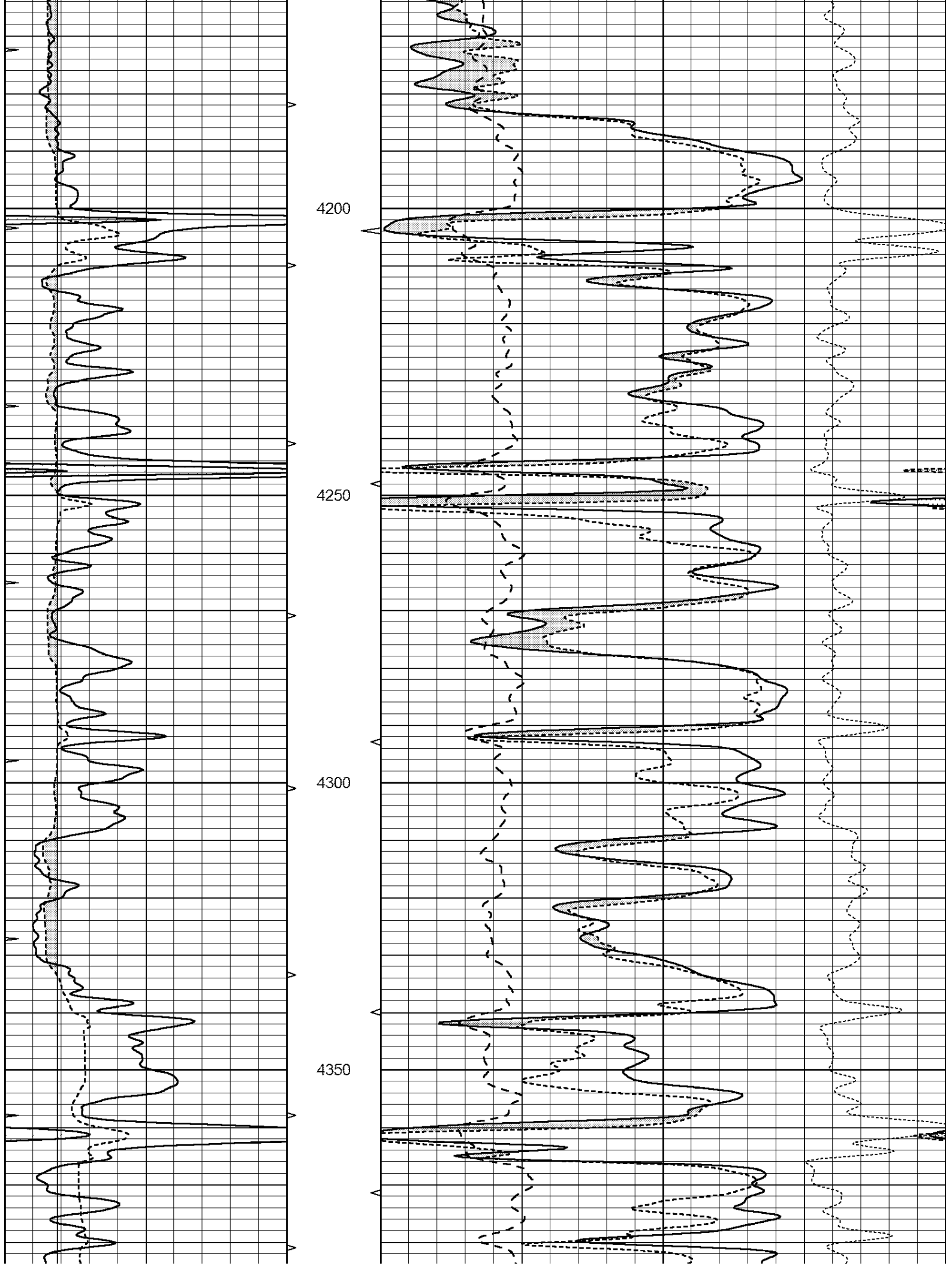
Database File: 409134pe.db  
 Dataset Pathname: pass3.8  
 Presentation Format: ldt\_neu  
 Dataset Creation: Mon Jun 04 12:05:39 2012  
 Charted by: Depth in Feet scaled 1:240

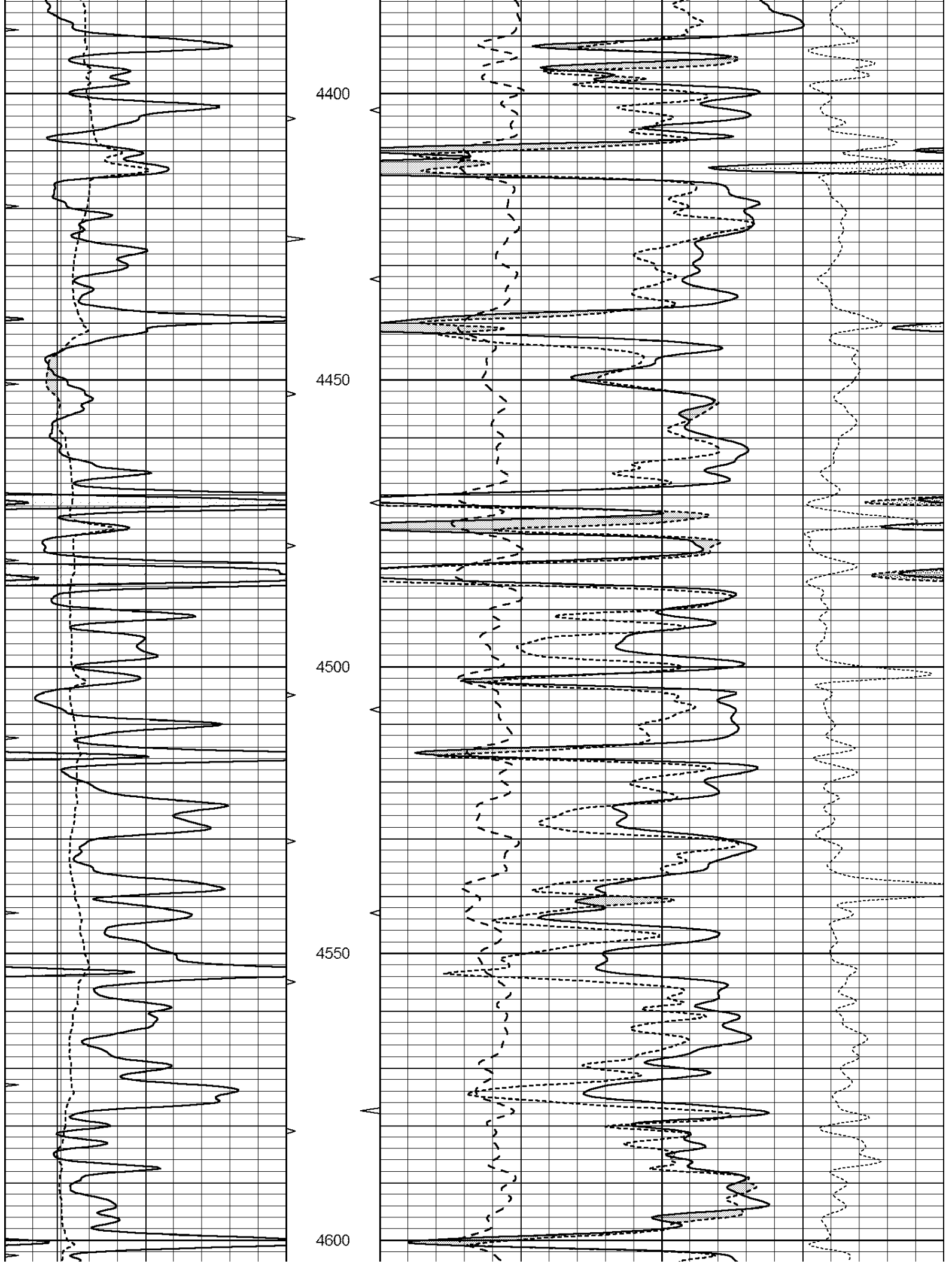




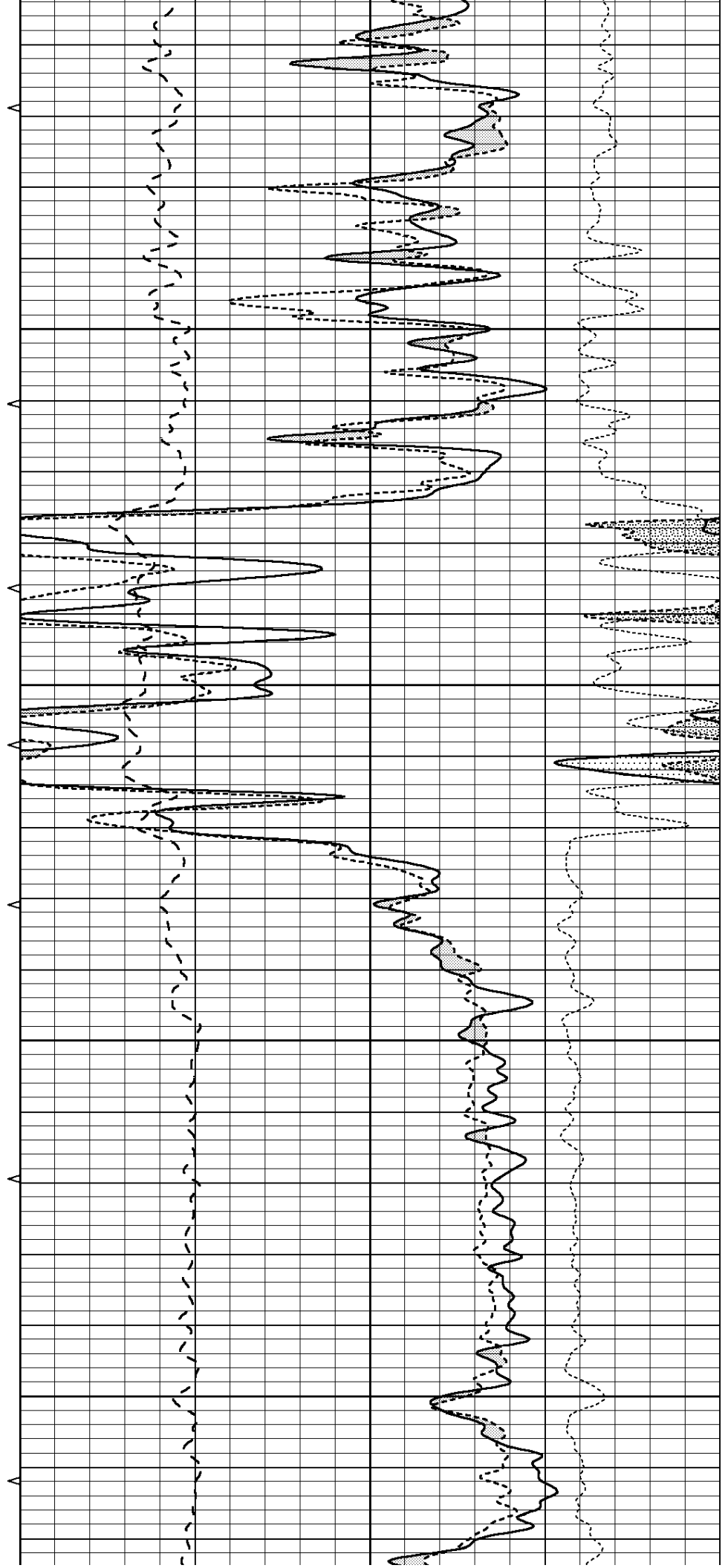
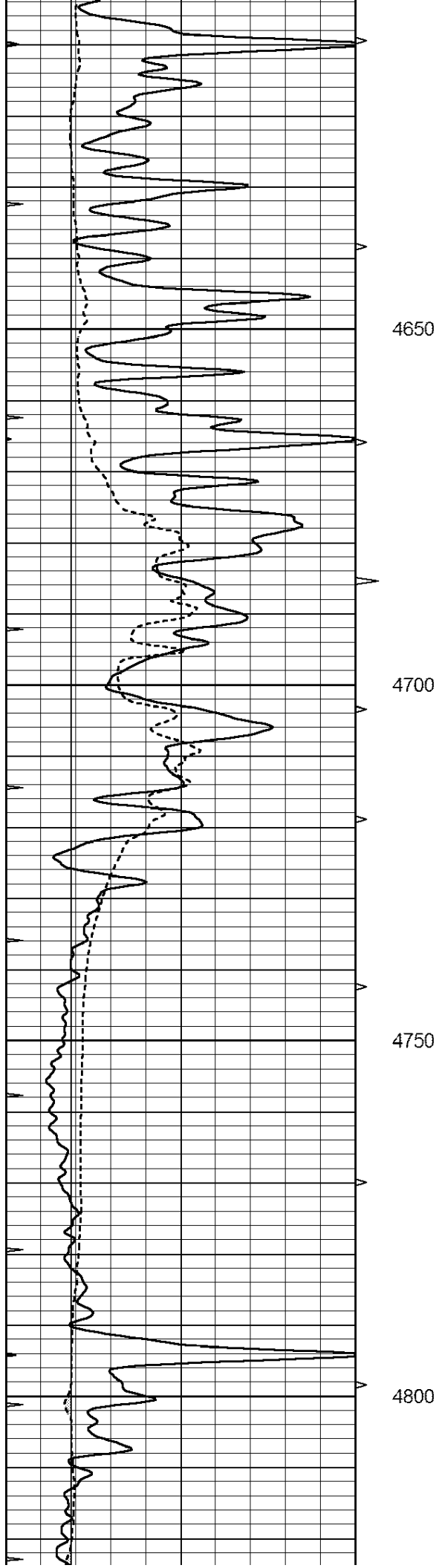


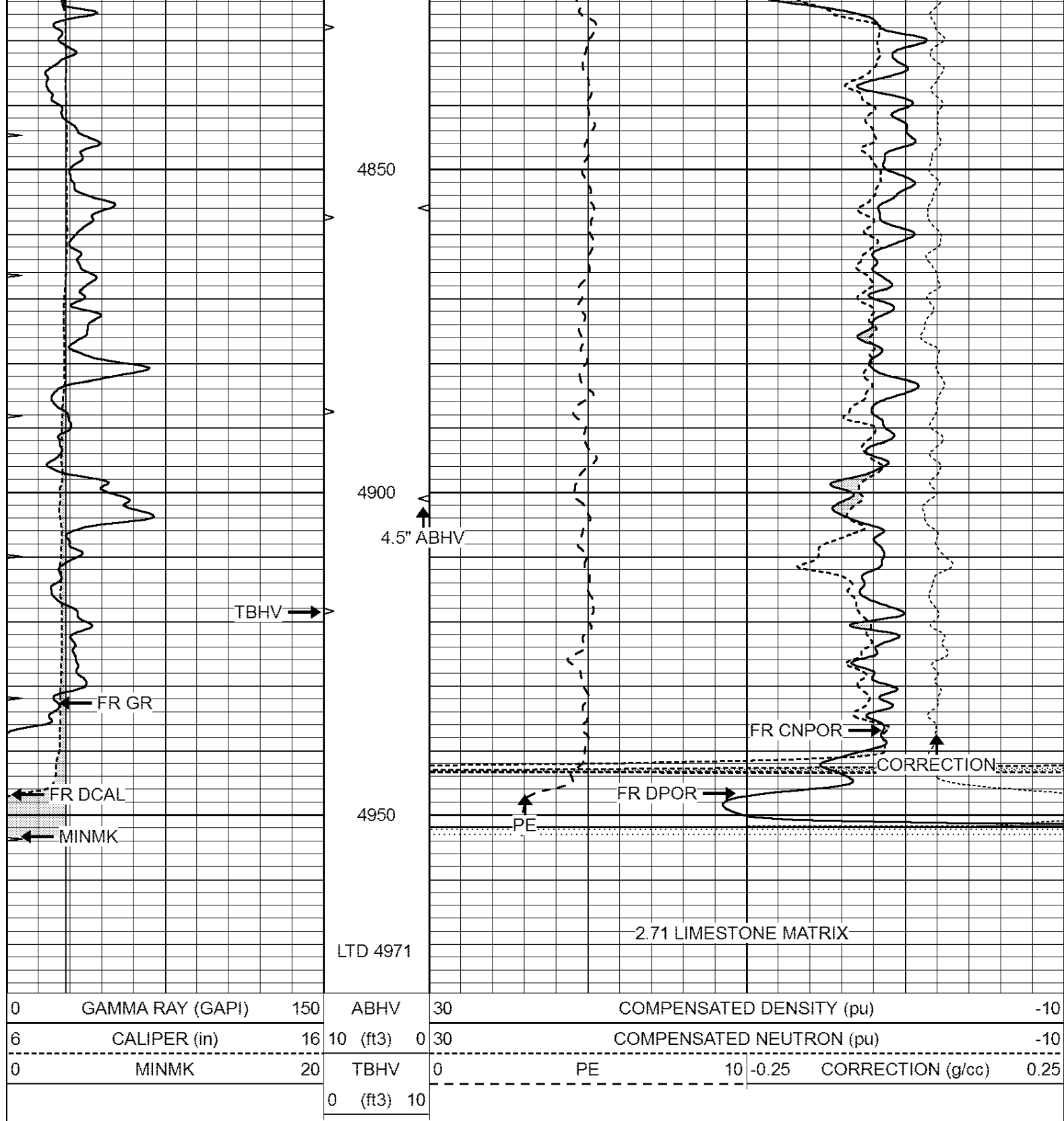










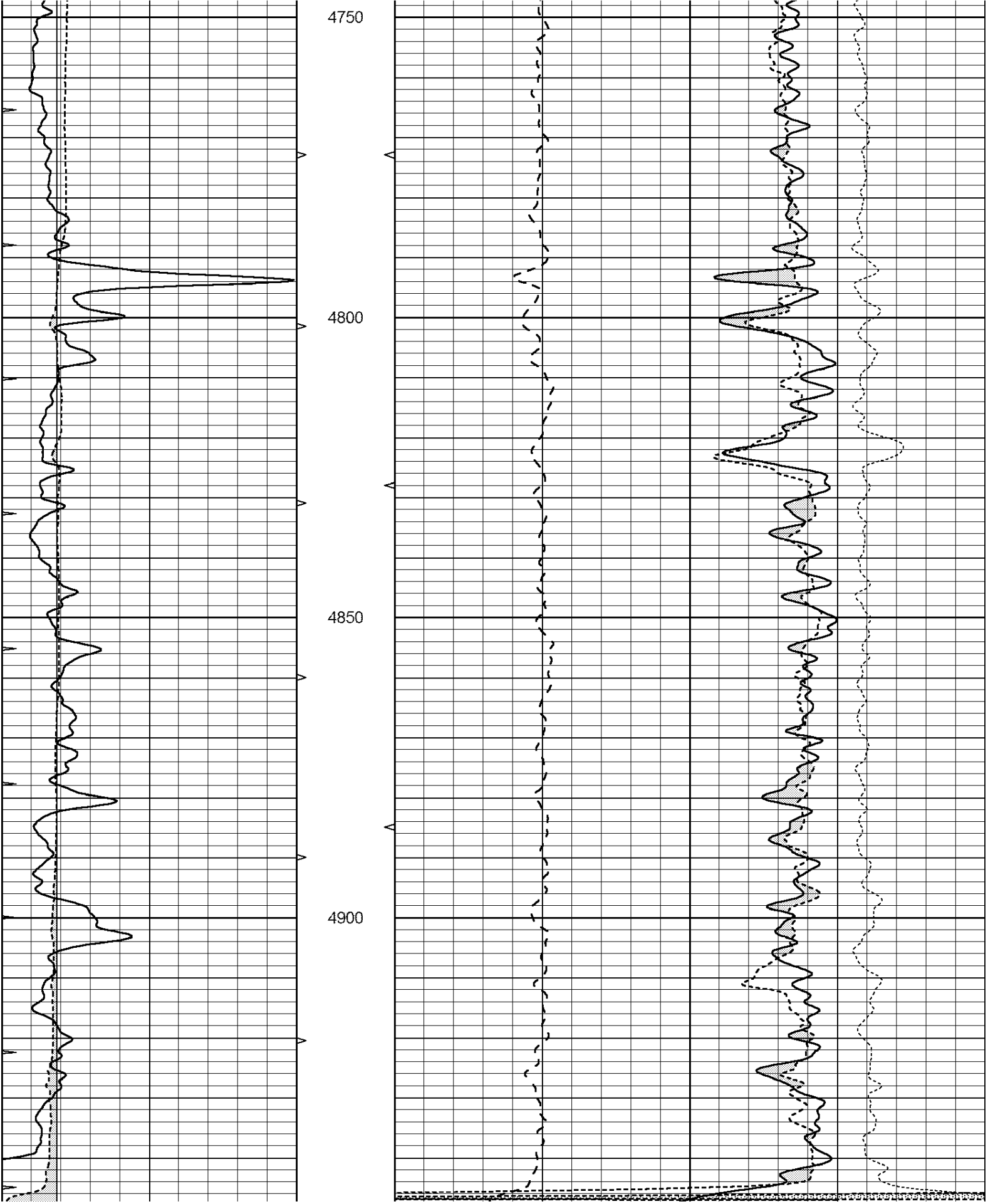


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# REPEAT SECTION

Database File: 409134pe.db  
 Dataset Pathname: pass2.5  
 Presentation Format: \_ldt\_neu  
 Dataset Creation: Mon Jun 04 11:10:40 2012 by Calc Open-Cased 110302  
 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                    |
| 0 | MINMK            | 20  | TBHV       | 0  | PE                       | 10 | -0.25 | CORRECTION (g/cc) 0.25 |
|   |                  |     | 0 (ft3) 10 |    |                          |    |       |                        |



|                                        |
|----------------------------------------|
| Compensated Neutron Calibration Report |
|----------------------------------------|

|                              |                          |                               |                 |
|------------------------------|--------------------------|-------------------------------|-----------------|
|                              |                          | Serial Number:<br>Tool Model: | 070808<br>Probe |
| 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:               | 070559                   |                               |                 |
| Tool Model:                  | OPEN_GR                  |                               |                 |
| Performed:                   | Tue May 22 19:38:45 2012 |                               |                 |
| Calibrator Value:            | 1.0                      | GAPI                          |                 |
| Background Reading:          | 0.0                      | cps                           |                 |
| Calibrator Reading:          | 1.0                      | cps                           |                 |
| Sensitivity:                 | 0.3000                   | GAPI/cps                      |                 |