



COMPENSATED  
DENSITY/NEUTRON  
PE/LOG

|                              |                                                   |                                  |                        |
|------------------------------|---------------------------------------------------|----------------------------------|------------------------|
| Company                      | WHITE EXPLORATION INC.                            | Company                          | WHITE EXPLORATION INC. |
| Well                         | LAWRENCE #1                                       | Well                             | LAWRENCE #1            |
| Field                        | WHELAN WEST                                       | Field                            | WHELAN WEST            |
| County                       | BARBER                                            | County                           | BARBER                 |
| State                        | KANSAS                                            | State                            | KANSAS                 |
| Location:                    | AP1 # : 15-007-24366-0000<br>2075' FSL & 650' FEL | Other Services<br>DIL/MEL<br>SON |                        |
| Permanent Datum              | SEC 25 TWP 31S RGE 12W                            | Elevation                        |                        |
| Log Measured From            | GROUND LEVEL                                      | K.B. 1525                        |                        |
| Drilling Measured From       | KELLY BUSHING 7' A.G.L.<br>KELLY BUSHING          | D.F. 1523                        |                        |
|                              |                                                   | G.L. 1518                        |                        |
| Date                         | 1/24/20                                           |                                  |                        |
| Run Number                   | ONE                                               |                                  |                        |
| Depth Driller                | 4630                                              |                                  |                        |
| Depth Logger                 | 4629                                              |                                  |                        |
| Bottom Logged Interval       | 4609                                              |                                  |                        |
| Top Log Interval             | 3300                                              |                                  |                        |
| Casing Driller               | 8 5/8" @ 394                                      |                                  |                        |
| Casing Logger                | 394                                               |                                  |                        |
| Bit Size                     | 7 7/8"                                            |                                  |                        |
| Type Fluid in Hole           | CHEMICAL MUD                                      |                                  |                        |
| Density / Viscosity          | 9.4/47                                            |                                  |                        |
| pH / Fluid Loss              | 10.5/8.8                                          |                                  |                        |
| Source of Sample             | FLOWLINE                                          |                                  |                        |
| Rm @ Meas. Temp              | .60 @ 62F                                         |                                  |                        |
| Rmt @ Meas. Temp             | .45 @ 62F                                         |                                  |                        |
| Rmc @ Meas. Temp             | .72 @ 62F                                         |                                  |                        |
| Source of Rmt / Rmc          | MEASURED                                          |                                  |                        |
| Rm @ BHT                     | .30 @ 122F                                        |                                  |                        |
| Time Circulation Stopped     | 2 HOURS                                           |                                  |                        |
| Time Logger on Bottom        | ///                                               |                                  |                        |
| Maximum Recorded Temperature | 122F                                              |                                  |                        |
| Equipment Number             | 1523                                              |                                  |                        |
| Location                     | HAYS, KANSAS                                      |                                  |                        |
| Recorded By                  | GUS PFANENSTIEL                                   |                                  |                        |
| Witnessed By                 | ANDY WHITE                                        |                                  |                        |

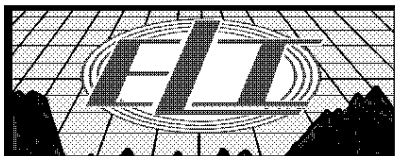
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

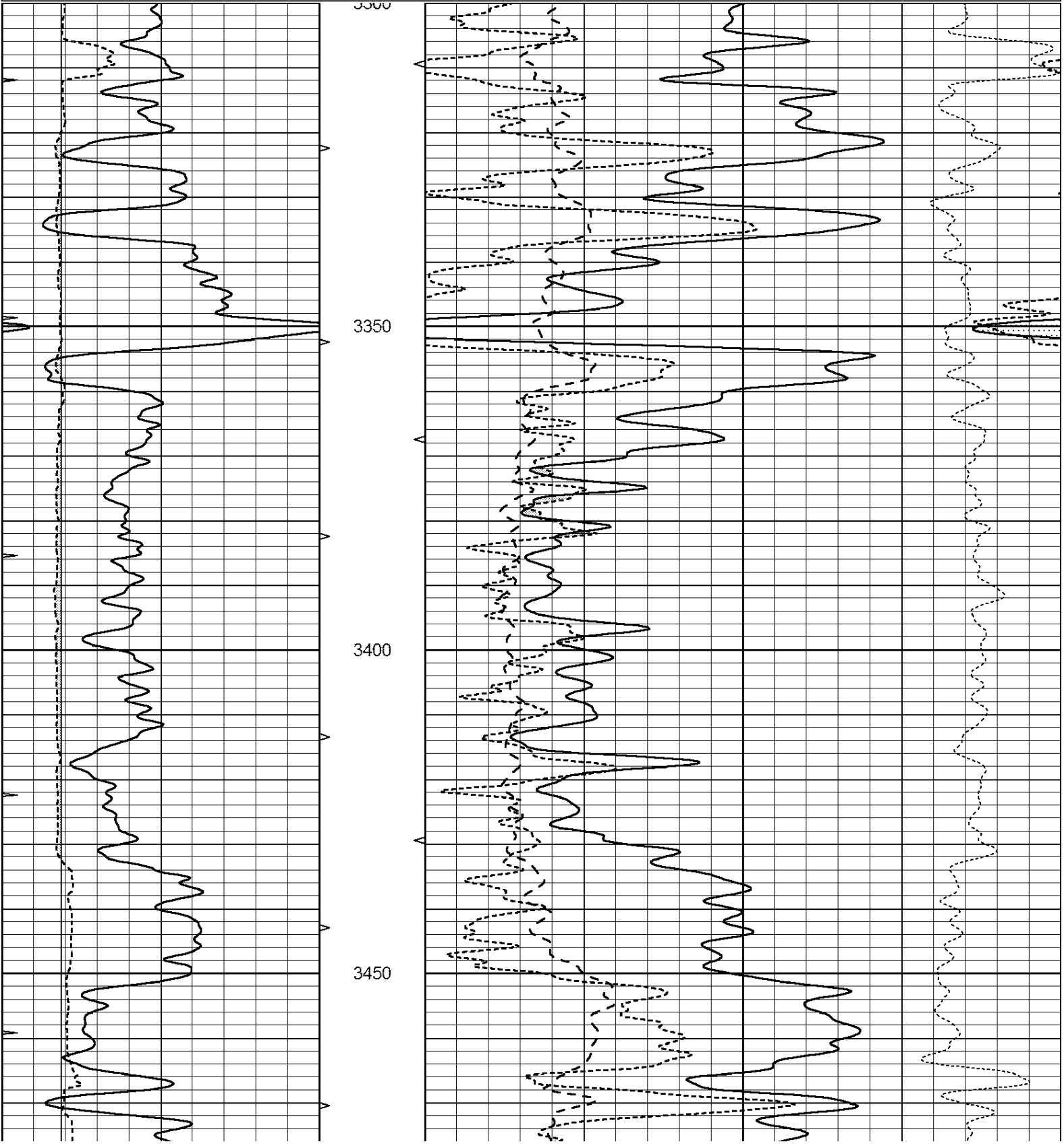
DIRECTIONS:NORTH OF MEDICINE LODGE TO WELL RD., EAST 1/2 MILE,  
SOUTH 1/2, EAST 1/2, SOUTH INTO.

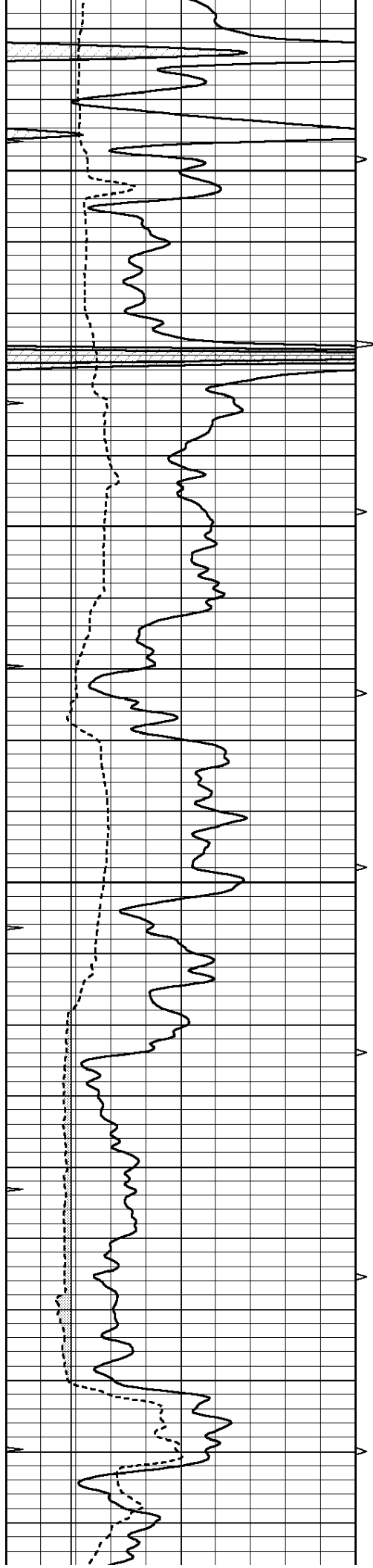


MAIN PASS

Database File: 4475pe.db  
Dataset Pathname: pass3MAIN  
Presentation Format: \_ldt\_neu  
Dataset Creation: Fri Jan 24 16:06:56 2020  
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 |                          |                          |       |                   |      |
|       |                  |     |          |    |                          |                          |       |                   |      |



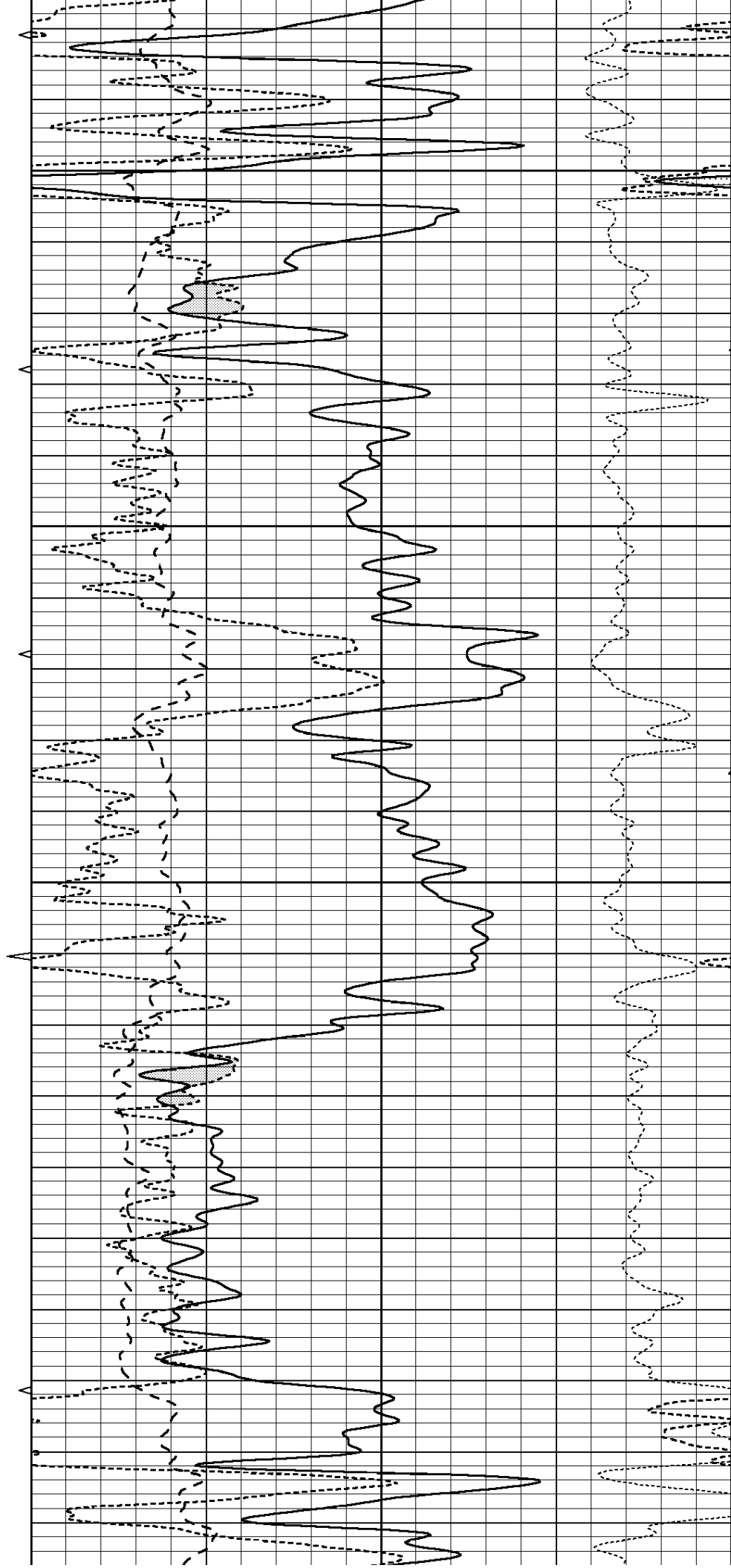


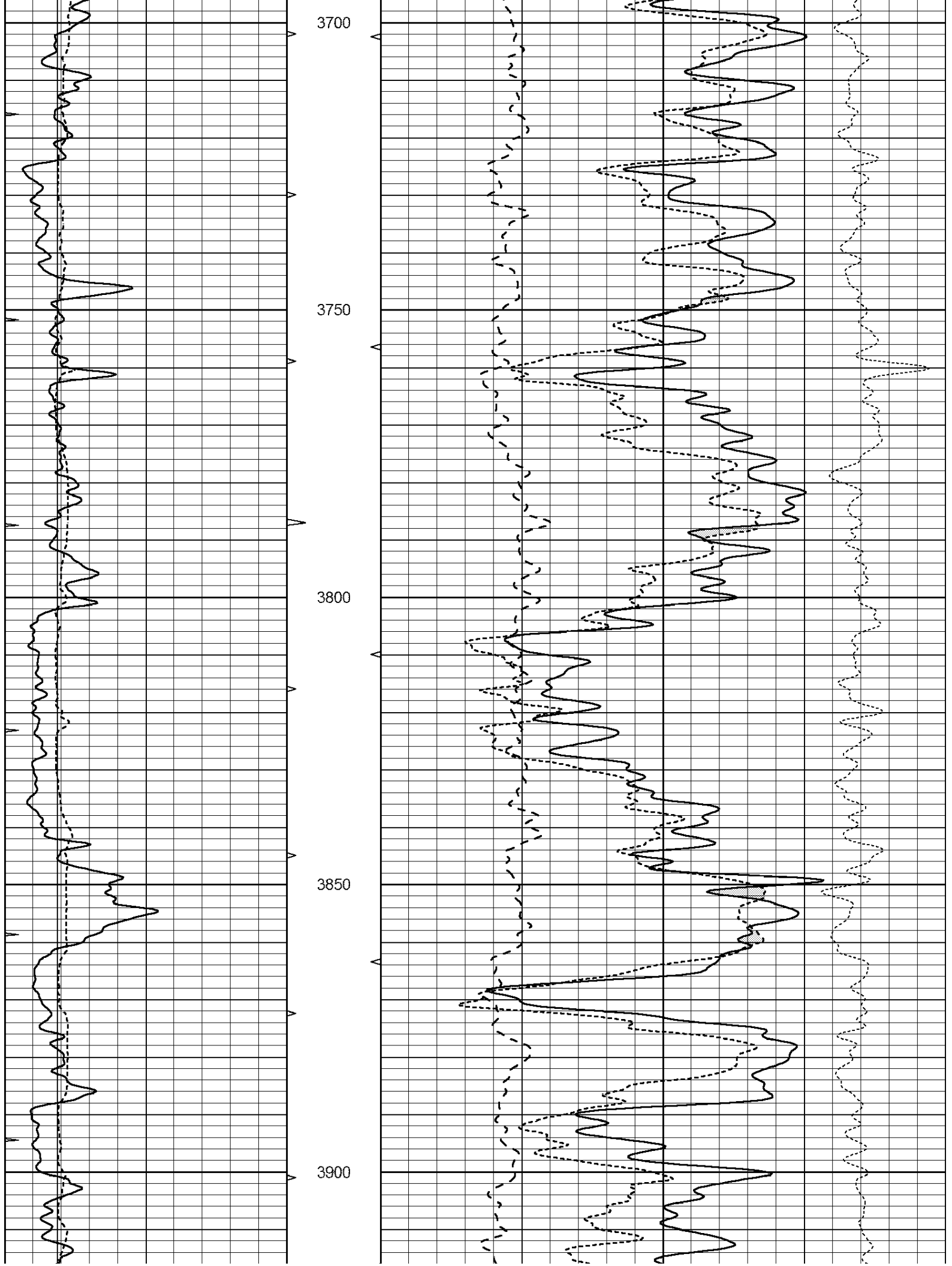
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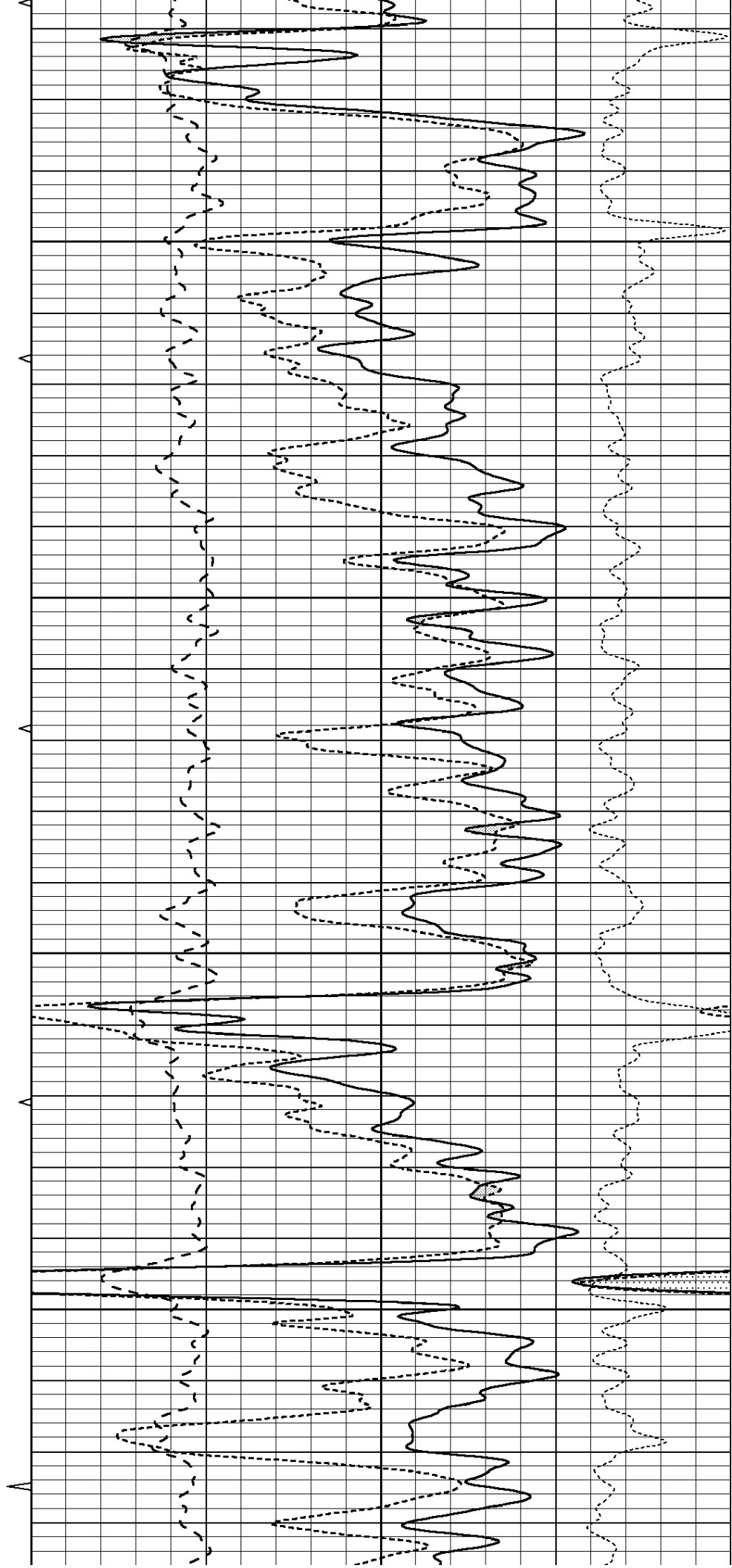
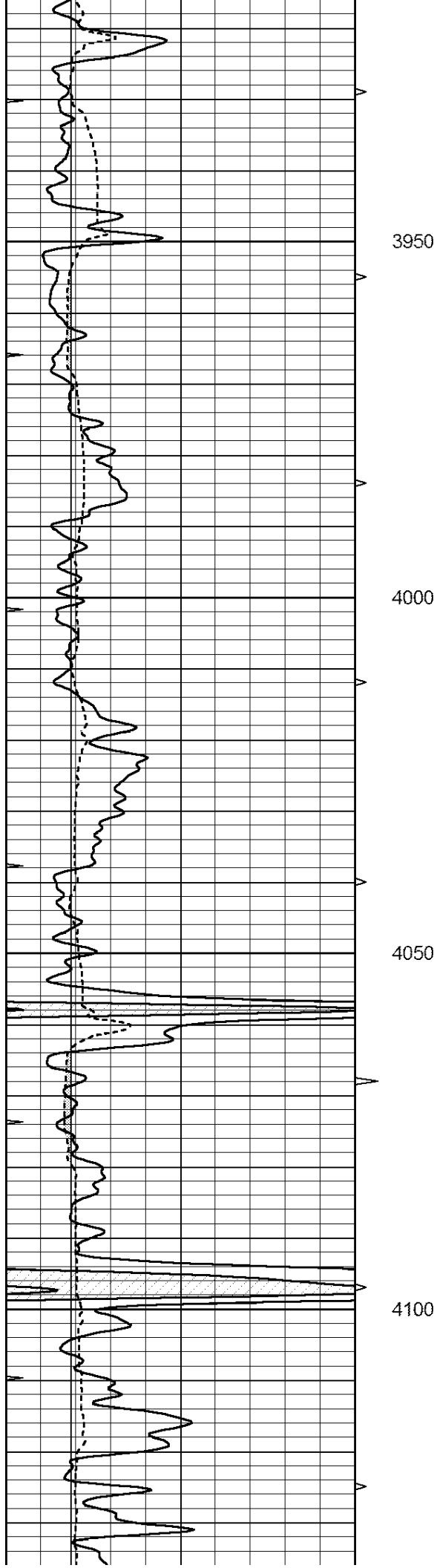
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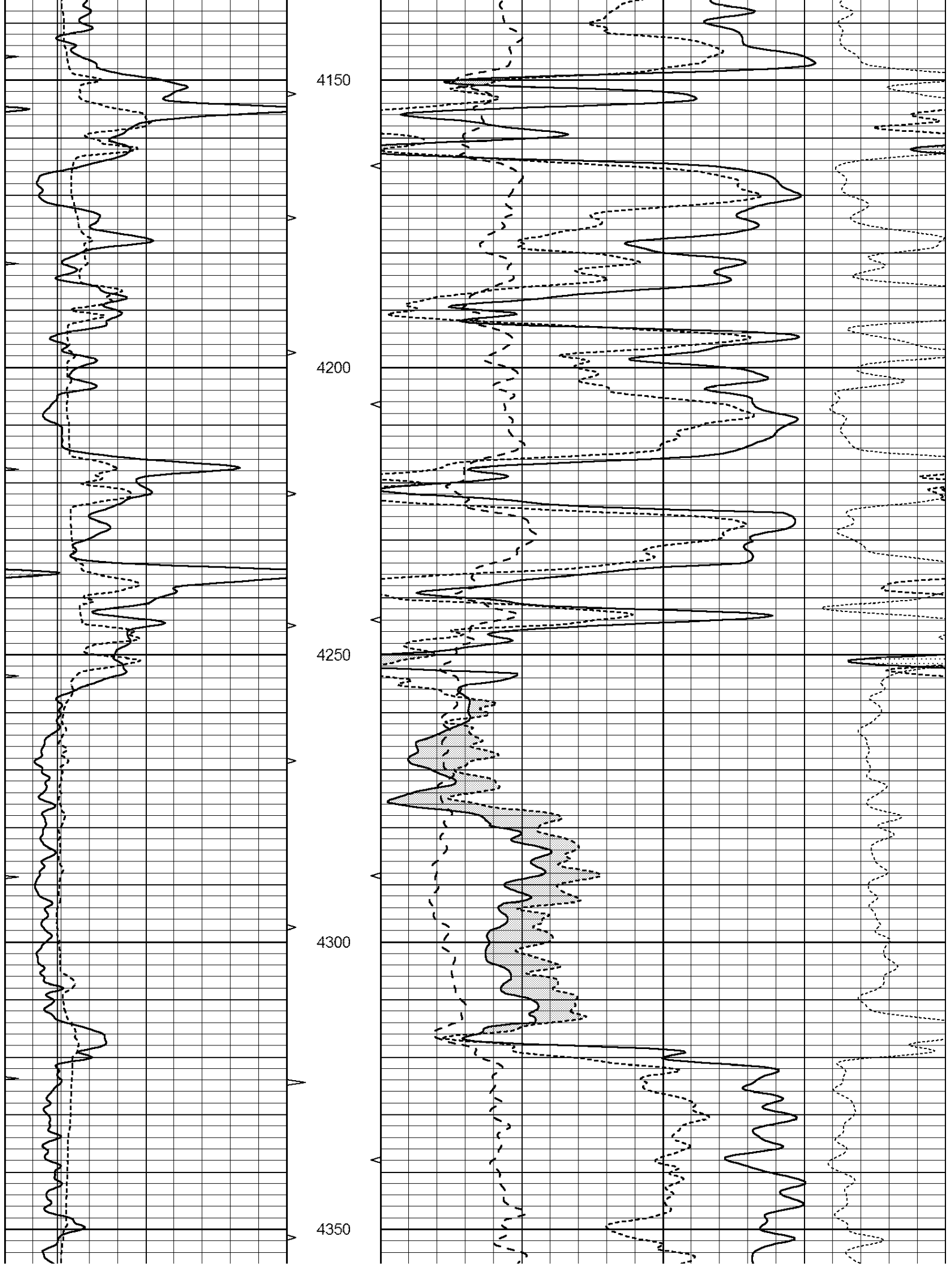
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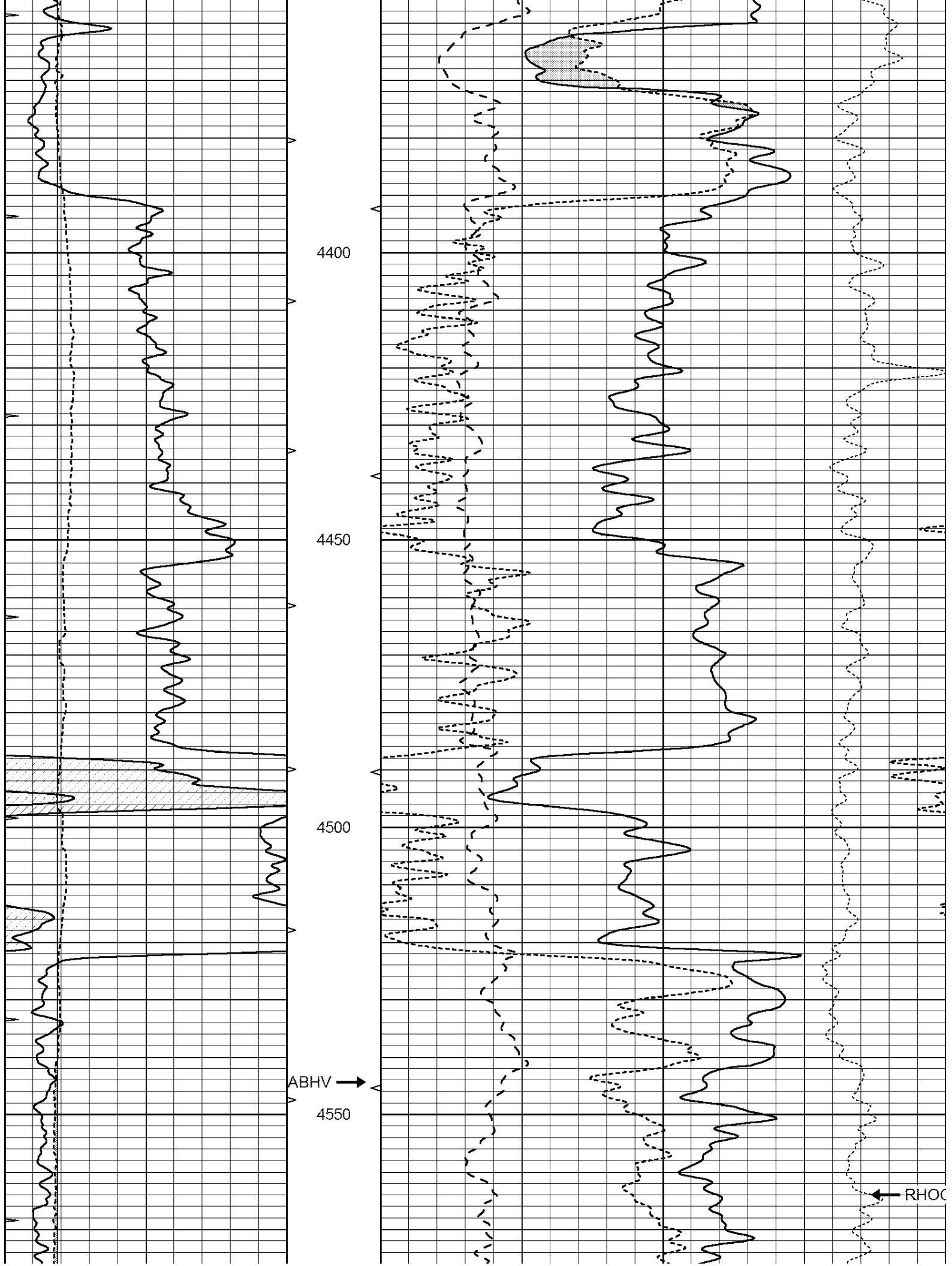
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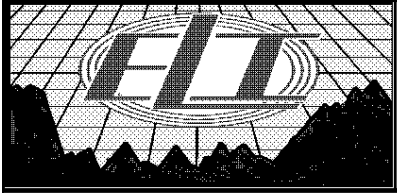
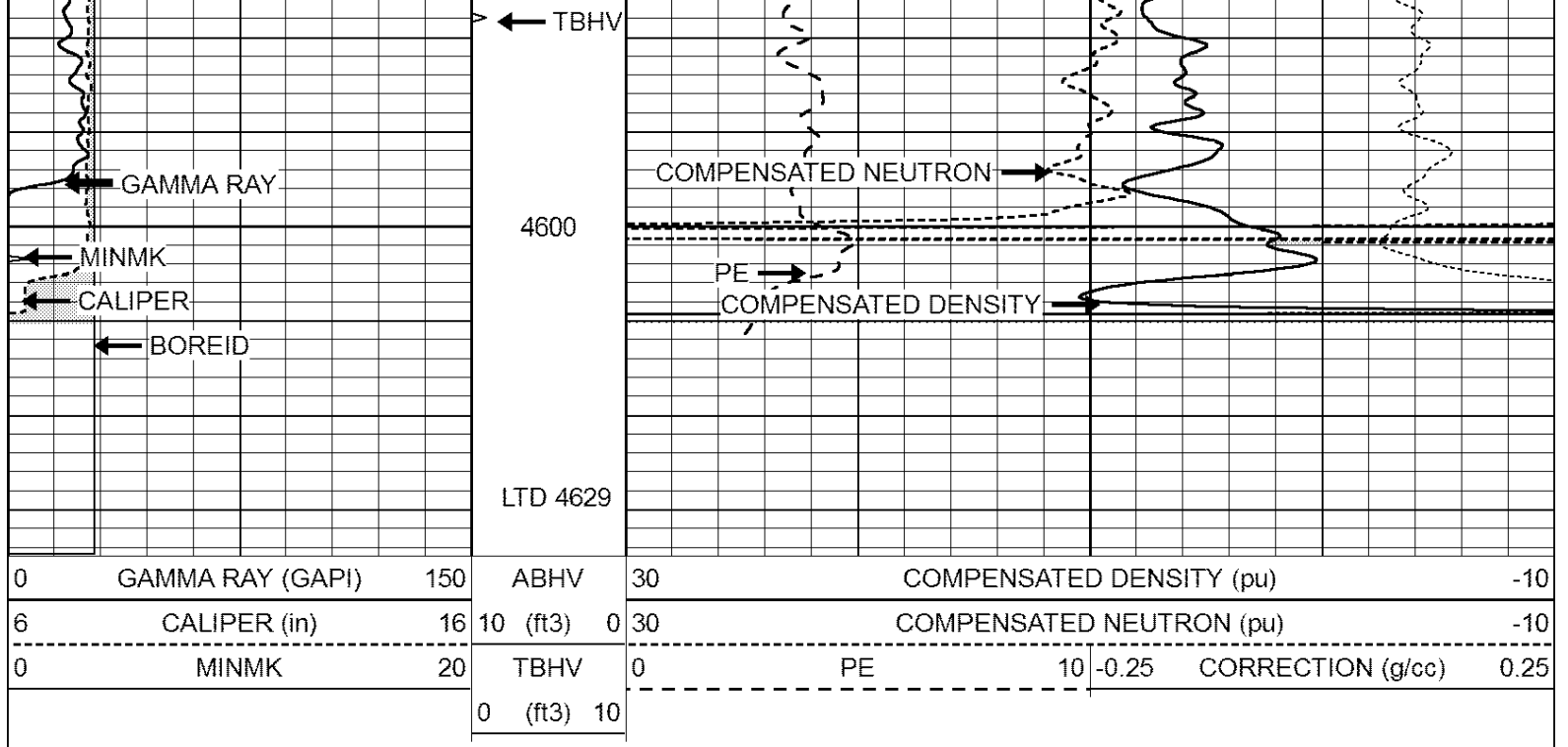






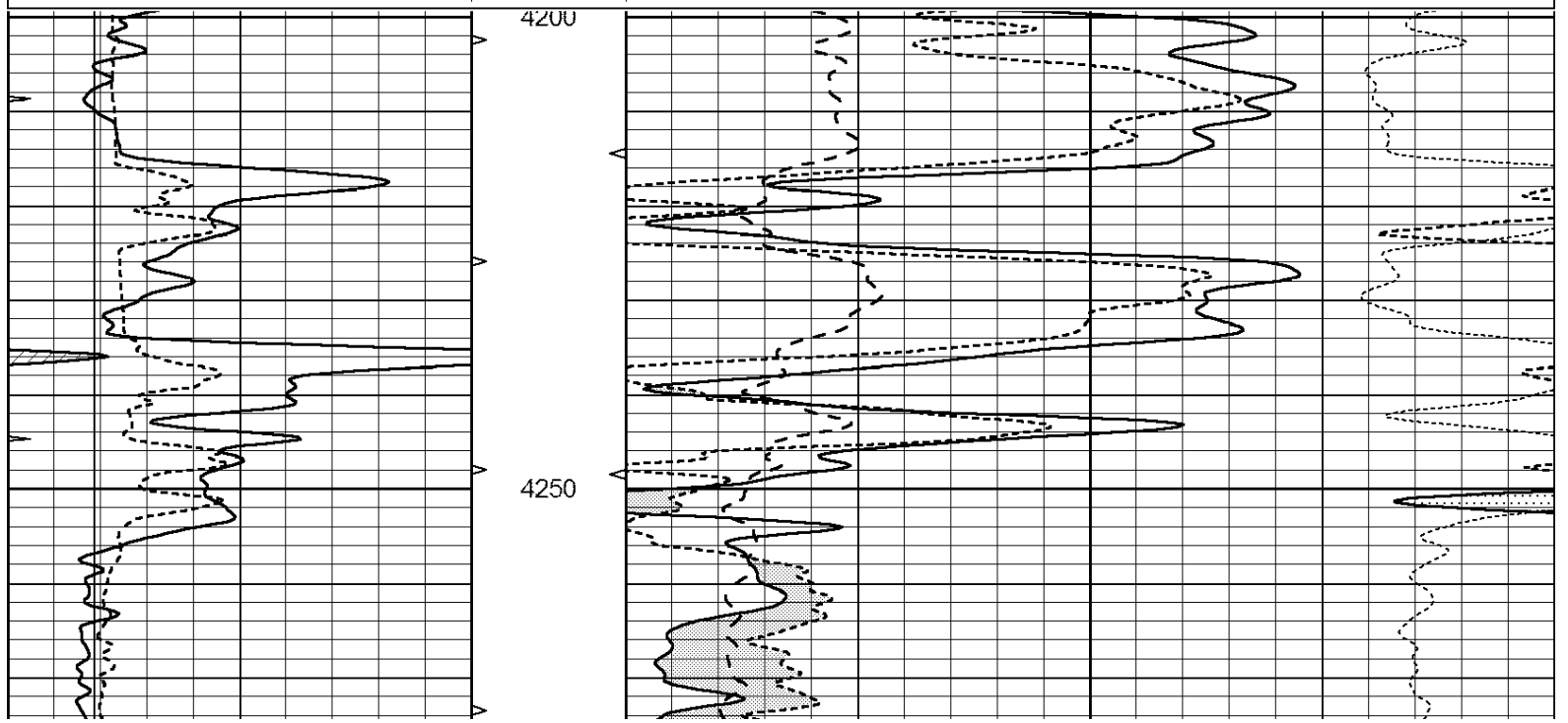
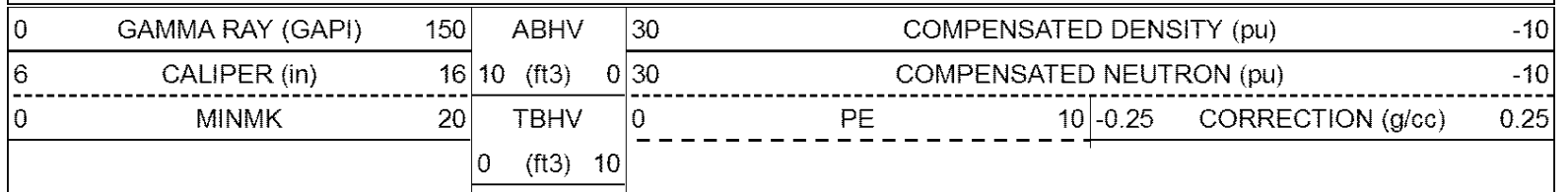


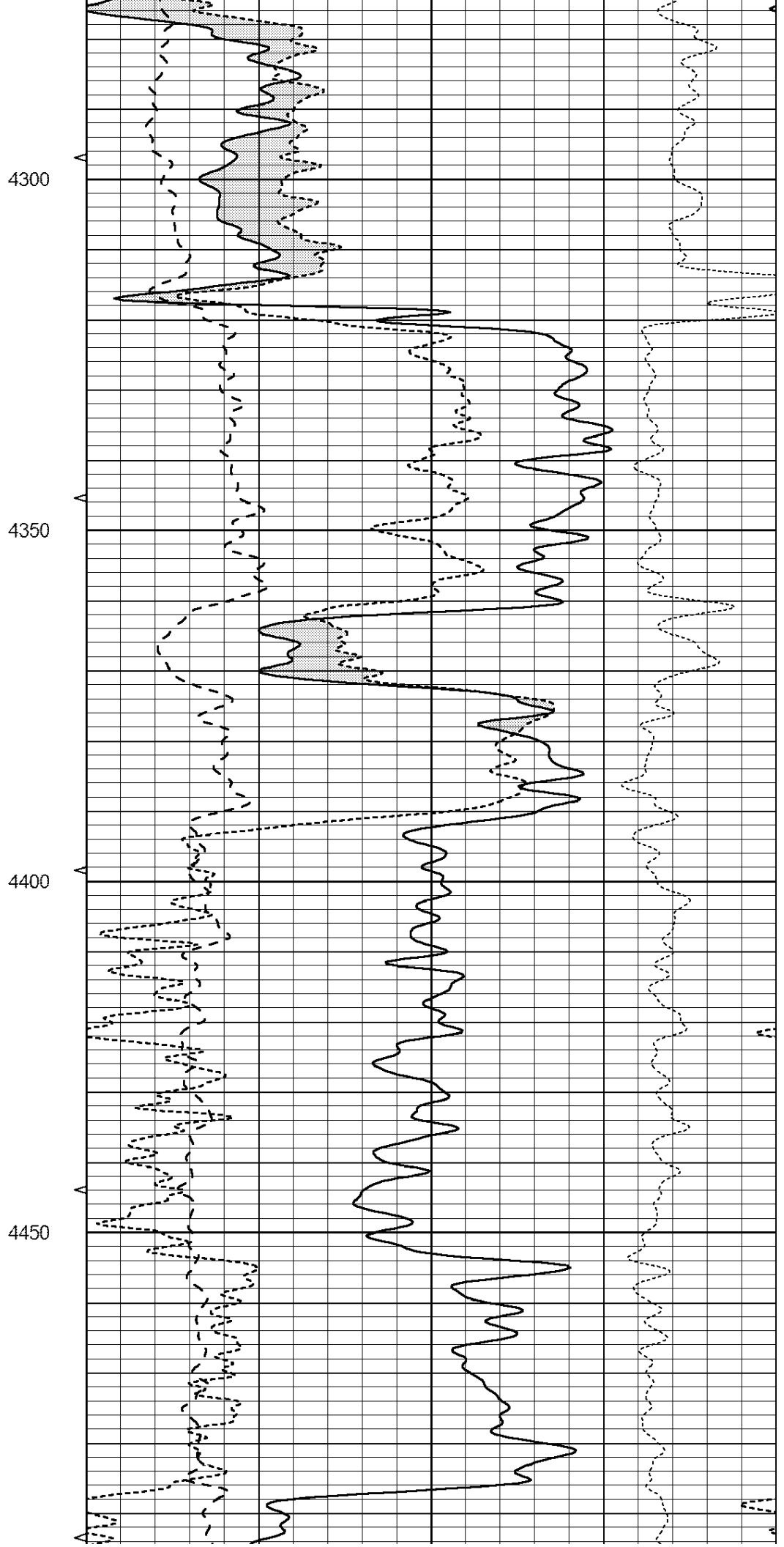
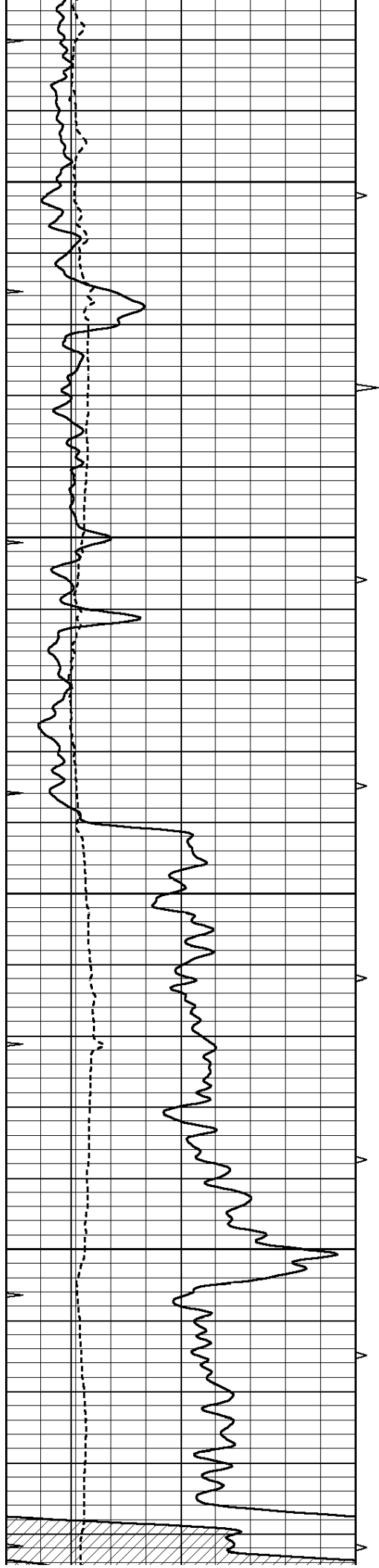


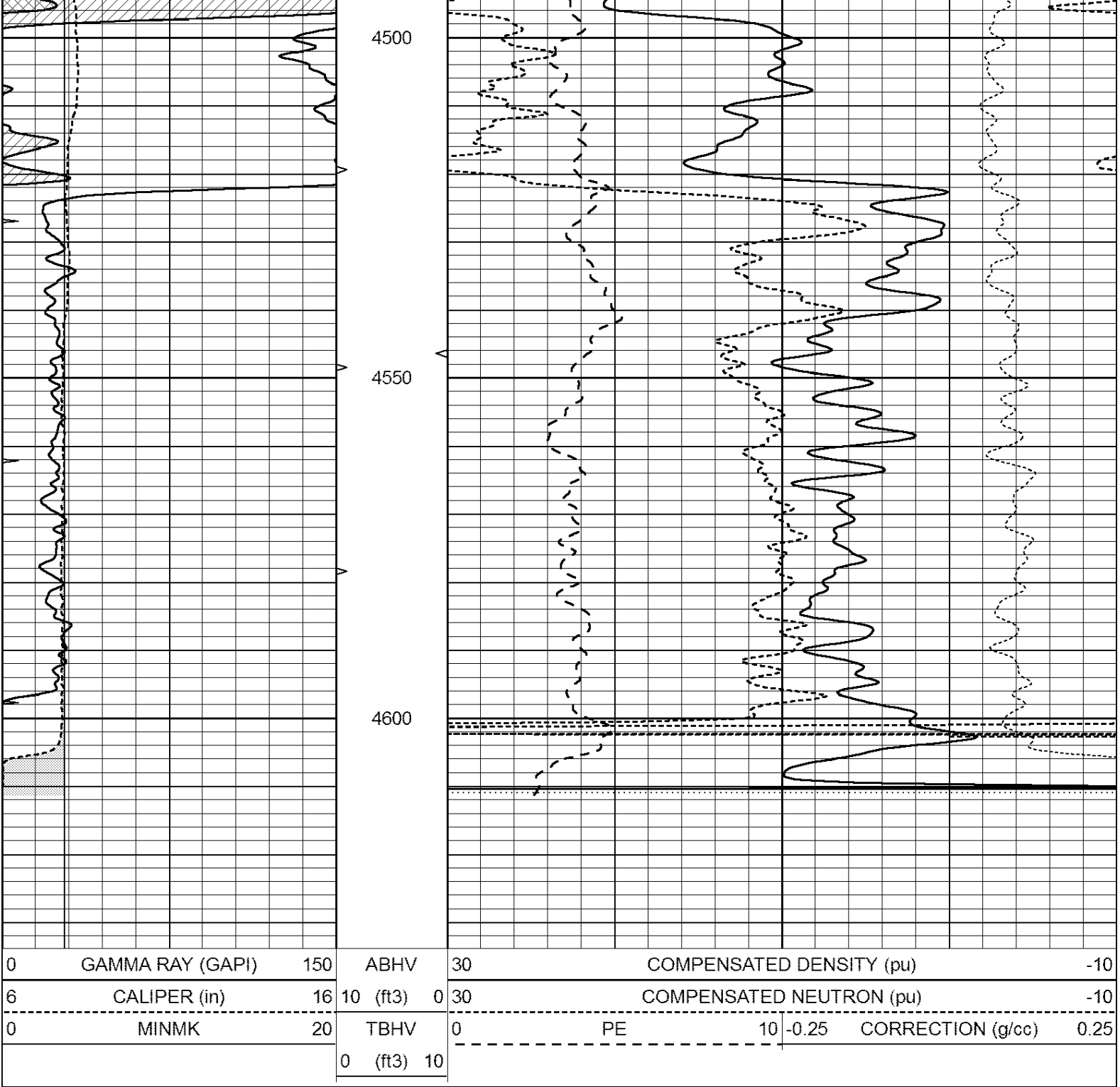


# REPEAT SECTION

Database File: 4475pe.db  
 Dataset Pathname: pass2.1  
 Presentation Format: \_ldt\_neu  
 Dataset Creation: Fri Jan 24 14:19:13 2020 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240







|                                      |     |                                                    |     |            |   |         |
|--------------------------------------|-----|----------------------------------------------------|-----|------------|---|---------|
| Calibration Report                   |     |                                                    |     |            |   |         |
| Database File:                       |     | 4475pe.db                                          |     |            |   |         |
| Dataset Pathname:                    |     | pass2.1                                            |     |            |   |         |
| Dataset Creation:                    |     | Fri Jan 24 14:19:13 2020 by Calc Open-Cased 090629 |     |            |   |         |
| Dual Induction Calibration Report    |     |                                                    |     |            |   |         |
| Serial-Model:                        |     | PROBE8-DILG                                        |     |            |   |         |
| Surface Cal Performed:               |     | Mon Sep 10 14:28:35 2018                           |     |            |   |         |
| Downhole Cal Performed:              |     | Mon Sep 10 14:28:38 2018                           |     |            |   |         |
| After Survey Verification Performed: |     | Mon Sep 10 14:28:40 2018                           |     |            |   |         |
| Surface Calibration                  |     |                                                    |     |            |   |         |
|                                      |     | Readings                                           |     | References |   | Results |
| Loop:                                | Air | Loop                                               | Air | Loop       | m | b       |

|                                  |            |             |                                    |                     |          |           |         |         |
|----------------------------------|------------|-------------|------------------------------------|---------------------|----------|-----------|---------|---------|
| Deep                             | 0.015      | 0.648       | V                                  | 0.000               | 400.000  | mmho/m    | 620.000 | 0.000   |
| Medium                           | 0.029      | 0.796       | V                                  | 0.000               | 464.000  | mmho/m    | 590.000 | -12.000 |
| Internal:                        | Zero       | Cal         |                                    | Zero                | Cal      |           | m       | b       |
| Deep                             | 0.017      | 0.657       | V                                  | 0.000               | 400.000  | mmho/m    | 625.153 | -10.619 |
| Medium                           | 0.016      | 0.757       | V                                  | 0.000               | 464.000  | mmho/m    | 625.992 | -9.739  |
| Downhole Calibration             |            |             |                                    |                     |          |           |         |         |
|                                  | Readings   |             |                                    | References          |          |           | Results |         |
|                                  | Zero       | Cal         |                                    | Zero                | Cal      |           | m'      | b'      |
| Deep                             | 0.000      | 0.000       | mmho/m                             | 2.011               | 405.777  | mmho/m    | 1.000   | 0.000   |
| Medium                           | 0.000      | 0.000       | mmho/m                             | 7.590               | 503.393  | mmho/m    | 1.000   | 0.000   |
| LL3                              |            | 7.500       | V                                  |                     | 1500.000 | Ohm-m     |         |         |
|                                  |            | 0.000       | V                                  |                     | 20.000   | Ohm-m     |         |         |
|                                  |            | -7.200      | V                                  |                     | 3800.000 | mmho-m    |         |         |
| After Survey Verification        |            |             |                                    |                     |          |           |         |         |
|                                  | Readings   |             |                                    | Targets             |          |           | Results |         |
|                                  | Zero       | Cal         |                                    | Zero                | Cal      |           | m'      | b'      |
| Deep                             | 0.000      | 0.000       | mmho/m                             | 0.000               | 0.000    | mmho/m    | 0.000   | 0.000   |
| Medium                           | 0.000      | 0.000       | mmho/m                             | 0.000               | 0.000    | mmho/m    | 0.000   | 0.000   |
| LL3                              |            | 1.000       | Ohm-m                              |                     | 1.000    | Ohm-m     |         |         |
|                                  |            | 0.000       | Ohm-m                              |                     | 0.000    | Ohm-m     |         |         |
|                                  |            | 1.000       | mmho-m                             |                     | 1.000    | mmho-m    |         |         |
| Litho Density Calibration Report |            |             |                                    |                     |          |           |         |         |
| Serial: 001N      Model: PRB     |            |             |                                    |                     |          |           |         |         |
| Master Calibration               |            |             | Performed Fri Feb 22 10:21:38 2019 |                     |          |           |         |         |
|                                  | Background | Magnesium   |                                    | Aluminum            |          | Sandstone |         |         |
| Window 1                         | 1650.2     | 7609.7      |                                    | 2906.5              |          | 8386.5    |         | cps     |
| Window 2                         | 1538.2     | 6635.9      |                                    | 2614.4              |          | 7212.4    |         | cps     |
| Window 3                         | 1257.0     | 3718.7      |                                    | 1765.8              |          | 3927.1    |         | cps     |
| Window 4                         | 376.8      | 375.6       |                                    | 373.4               |          | 374.5     |         | cps     |
| Long Space                       | 0.0        | 5097.7      |                                    | 1076.2              |          | 5674.2    |         | cps     |
| Short Space                      | 2.8        | 1704.3      |                                    | 1106.3              |          | 1723.6    |         | cps     |
| Rho                              |            | 1.7100      |                                    | 2.5900              |          | 1.3800    |         | g/cc    |
| Pe                               |            | 0.0000      |                                    | 2.5700              |          | 1.5500    |         |         |
| Rib Angle                        | : 44.5     | Rib Slope   | : 0.982                            | Density/Spine Ratio |          | : 0.545   |         |         |
| Spine Angle                      | : 74.5     | Spine Slope | : 3.599                            | Spine Intercept     |          | : -18.2   |         |         |
| Before Survey Verification       |            |             | Performed Wed Dec 31 18:00:00 1969 |                     |          |           |         |         |
|                                  |            |             |                                    |                     |          |           |         |         |
| Window 1                         | 0.0        | 0.0         |                                    | 0.0                 |          | 0.0       |         | cps     |
| Window 2                         | 0.0        | 0.0         |                                    | 0.0                 |          | 0.0       |         | cps     |
| Window 3                         | 0.0        | 0.0         |                                    | 0.0                 |          | 0.0       |         | cps     |
| Window 4                         | 0.0        | 0.0         |                                    | 0.0                 |          | 0.0       |         | cps     |
| Long Space                       | 0.0        | 0.0         |                                    | 0.0                 |          | 0.0       |         | cps     |
| Short Space                      | 0.0        | 0.0         |                                    | 0.0                 |          | 0.0       |         | cps     |
| Measured Rho                     |            | 0.0000      |                                    | 0.0000              |          | 0.0000    |         | g/cc    |
| Measured Correction              |            | 0.0000      |                                    | 0.0000              |          | 0.0000    |         | g/cc    |
| Measured Pe                      |            |             |                                    | 0.0000              |          | 0.0000    |         |         |
| After Survey Verification        |            |             | Performed Wed Dec 31 18:00:00 1969 |                     |          |           |         |         |
|                                  |            |             |                                    |                     |          |           |         |         |
| Window 1                         | 0.0        | 0.0         |                                    | 0.0                 |          | 0.0       |         | cps     |

|                     |     |        |        |        |      |
|---------------------|-----|--------|--------|--------|------|
| Window 1            | 0.0 | 0.0    | 0.0    | 0.0    | cps  |
| Window 2            | 0.0 | 0.0    | 0.0    | 0.0    | cps  |
| Window 3            | 0.0 | 0.0    | 0.0    | 0.0    | cps  |
| Window 4            | 0.0 | 0.0    | 0.0    | 0.0    | cps  |
| Long Space          | 0.0 | 0.0    | 0.0    | 0.0    | cps  |
| Short Space         | 0.0 | 0.0    | 0.0    | 0.0    | cps  |
| Measured Rho        |     | 0.0000 | 0.0000 | 0.0000 | g/cc |
| Measured Correction |     | 0.0000 | 0.0000 | 0.0000 | g/cc |
| Measured Pe         |     |        | 0.0000 | 0.0000 |      |

| Compensated Neutron Calibration Report |             |                          |     |          |     |               |
|----------------------------------------|-------------|--------------------------|-----|----------|-----|---------------|
|                                        |             | Serial Number:           |     | 6l       |     |               |
|                                        |             | 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        |
| PRE-SURVEY VERIFICATION                |             |                          |     |          |     |               |
| Detector                               |             | Readings                 |     | Measured |     | Target        |
| 1)                                     | Short Space |                          | cps |          |     |               |
|                                        | Long Space  |                          | cps |          | pu  | pu            |
| 2)                                     | Short Space |                          | cps |          |     |               |
|                                        | Long Space  |                          | cps |          | pu  |               |
| 3)                                     | Short Space |                          | cps |          |     |               |
|                                        | Long Space  |                          | cps |          | pu  |               |
| POST-SURVEY VERIFICATION               |             |                          |     |          |     |               |
| Detector                               |             | Readings                 |     | Measured |     | Target        |
| 1)                                     | Short Space |                          | cps |          |     |               |
|                                        | Long Space  |                          | cps |          | pu  | pu            |
| 2)                                     | Short Space |                          | cps |          |     |               |
|                                        | Long Space  |                          | cps |          | pu  | pu            |
| 3)                                     | Short Space |                          | cps |          |     |               |
|                                        | Long Space  |                          | cps |          | pu  | pu            |
| Gamma Ray Calibration Report           |             |                          |     |          |     |               |
| Serial Number:                         |             | GR6                      |     |          |     |               |
| Tool Model:                            |             | OPEN                     |     |          |     |               |
| Performed:                             |             | Wed Jul 03 12:57:34 2019 |     |          |     |               |
| Calibrator Value:                      |             | 150.0                    |     | GAPI     |     |               |
| Background Reading:                    |             | 0.0                      |     | cps      |     |               |
| Calibrator Reading:                    |             | 276.0                    |     | cps      |     |               |
| Sensitivity:                           |             | 0.5700                   |     | GAPI/cps |     |               |