



# MICRO LOG

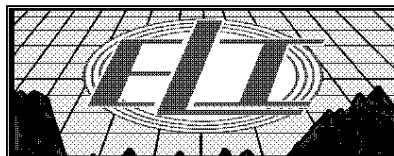
|                              |                           |                      |                                           |
|------------------------------|---------------------------|----------------------|-------------------------------------------|
| Company                      | ENERGY PARTNERS, LLC.     |                      |                                           |
| Well                         | VANZANT #1                |                      |                                           |
| Field                        | MIRT EAST                 |                      |                                           |
| County                       | SUMNER                    | State                | KANSAS                                    |
| Location:                    | API # : 15-191-22812-0000 |                      | Other Services<br>CDL/CNL/PE<br>DIL/SONIC |
| Permanent Datum              | GROUND LEVEL              | Elevation            | 1152                                      |
| Log Measured From            | KELLY BUSHING 9' A.G.L.   |                      |                                           |
| Drilling Measured From       | KELLY BUSHING             |                      |                                           |
| Date                         | 4/16/19                   |                      |                                           |
| Run Number                   | TWO                       |                      |                                           |
| Depth Driller                | 4450                      |                      |                                           |
| Depth Logger                 | 4450                      |                      |                                           |
| Bottom Logged Interval       | 4434                      |                      |                                           |
| Top Log Interval             | 2700                      |                      |                                           |
| Casing Driller               | 8 5/8"@223'               |                      |                                           |
| Casing Logger                | 223                       |                      |                                           |
| Bit Size                     | 7 7/8"                    |                      |                                           |
| Type Fluid in Hole           | CHEMICAL MUD              | CHLORIDES 15,000 PPM |                                           |
| Density / Viscosity          | 9.0/40                    |                      |                                           |
| pH / Fluid Loss              | 9.0/20                    |                      |                                           |
| Source of Sample             | FLOWLINE                  |                      |                                           |
| Rim @ Meas. Temp             | .300@80F                  |                      |                                           |
| Rmf @ Meas. Temp             | .225@80F                  |                      |                                           |
| Rmc @ Meas. Temp             | .360@80F                  |                      |                                           |
| Source of Rmf / Rmc          | MEASUREMENT               |                      |                                           |
| Rim @ BHT                    | .200@120F                 |                      |                                           |
| Time Circulation Stopped     | 5 HOURS                   |                      |                                           |
| Time Logger on Bottom        | 1:45 P.M.                 |                      |                                           |
| Maximum Recorded Temperature | 120F                      |                      |                                           |
| Equipment Number             | 922339                    |                      |                                           |
| Location                     | HAYS, KANSAS              |                      |                                           |
| Recorded By                  | JEFF LUEBBERS             |                      |                                           |
| Witnessed By                 | BRAD RINE                 | JAY ABLAH            |                                           |

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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

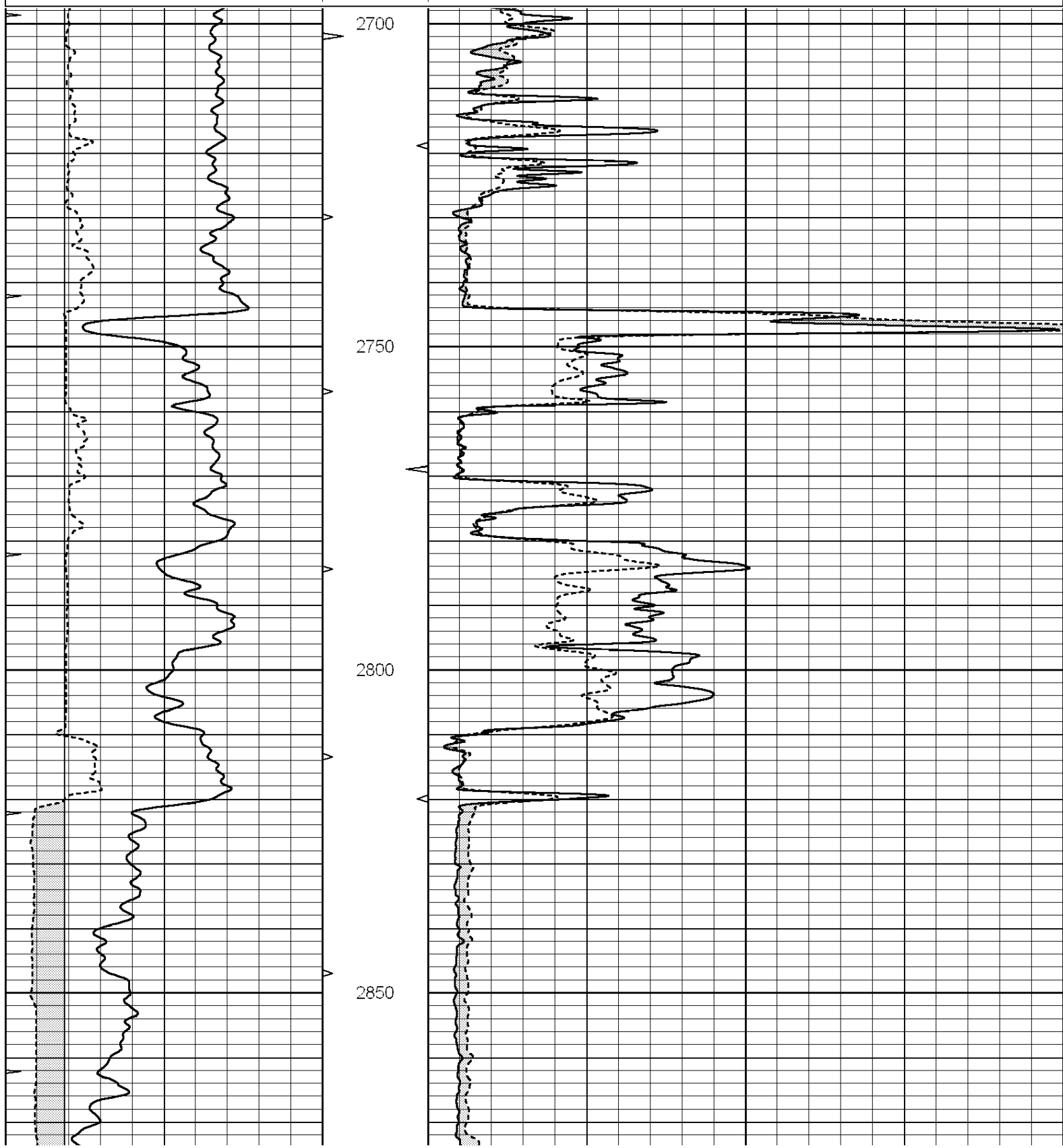
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395  
DIRECTIONS  
WELLINGTON, KS., 12S. ON HWY 81 TO "140 RD.", 1/2E., S. INTO

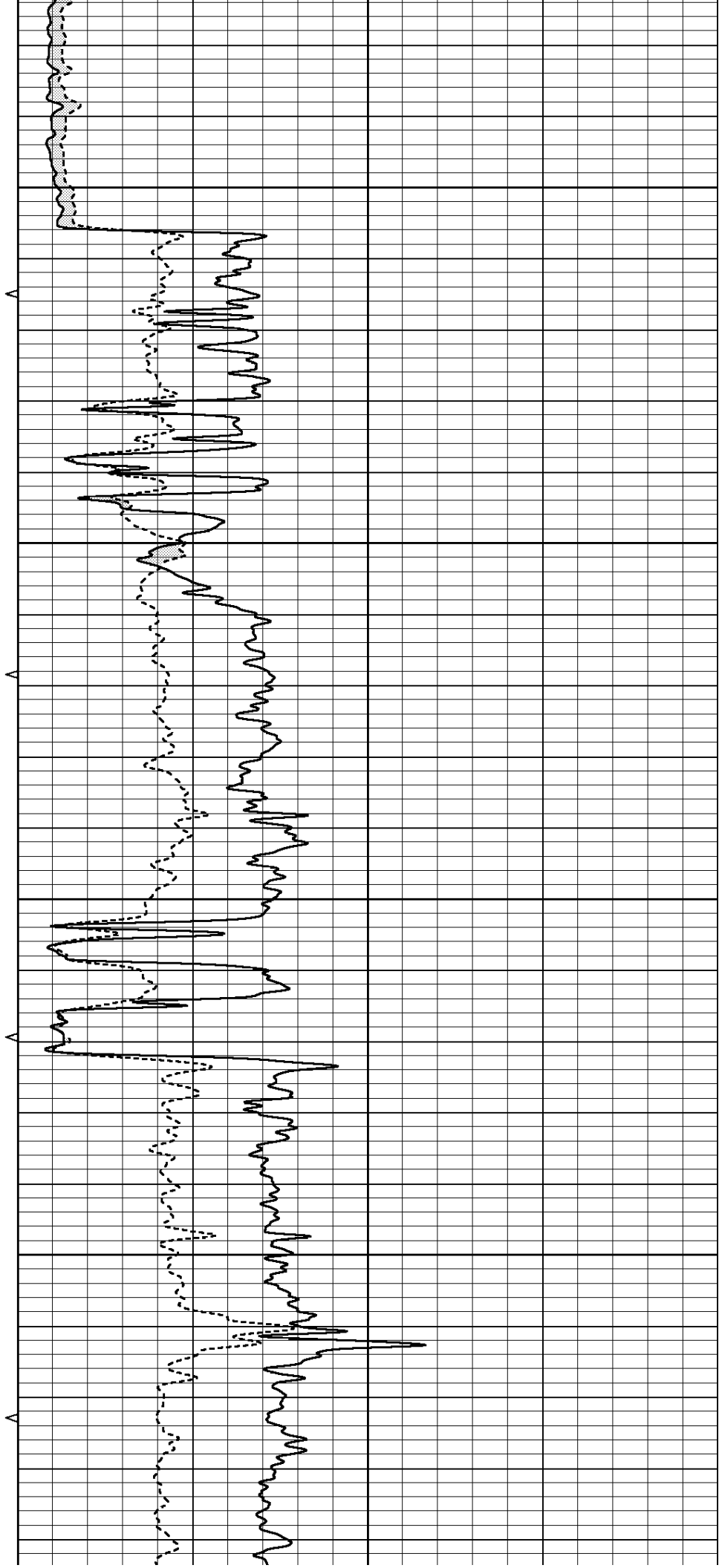
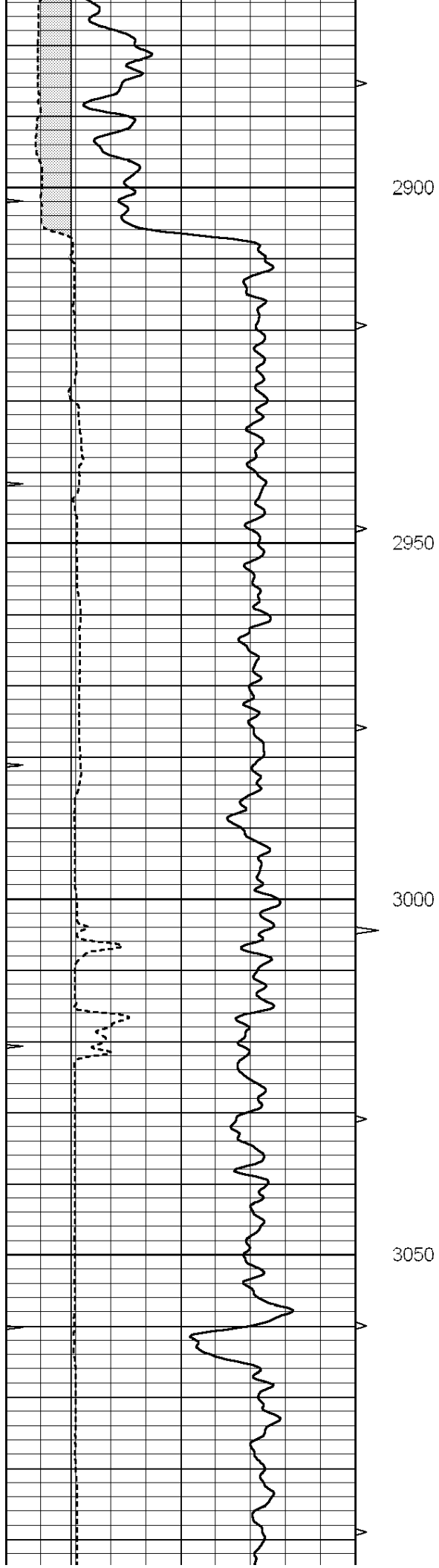


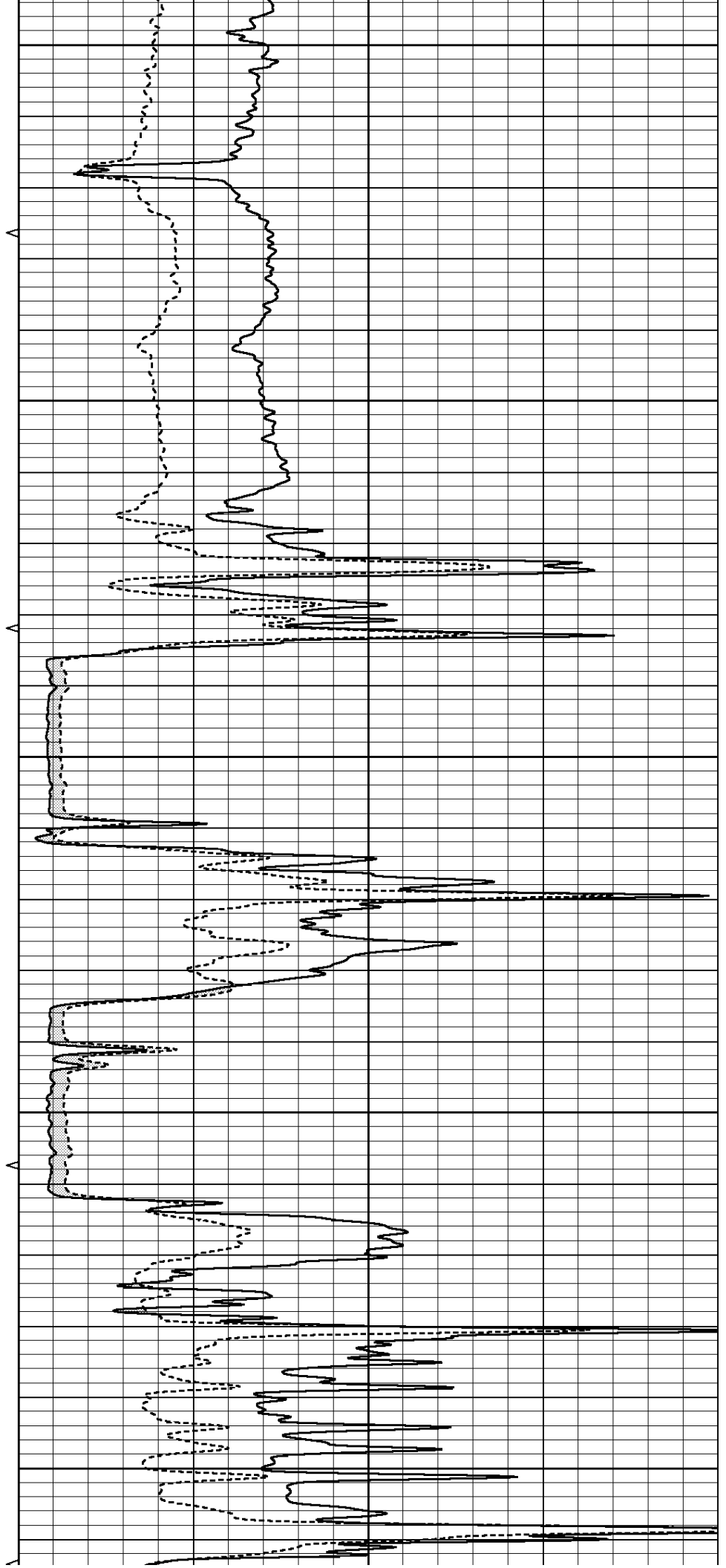
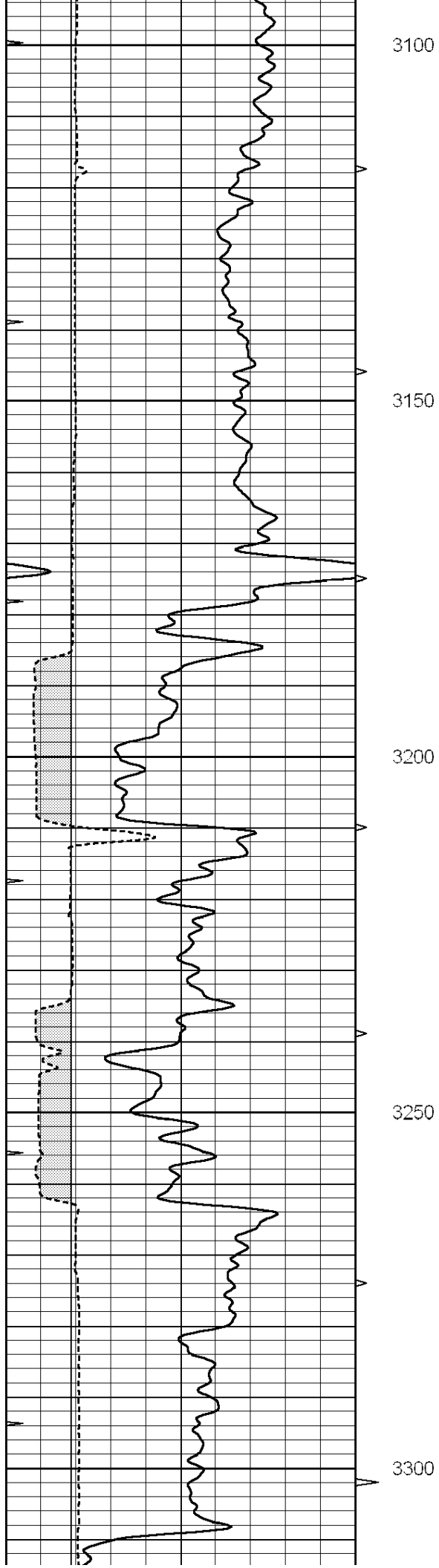
# MAIN SECTION

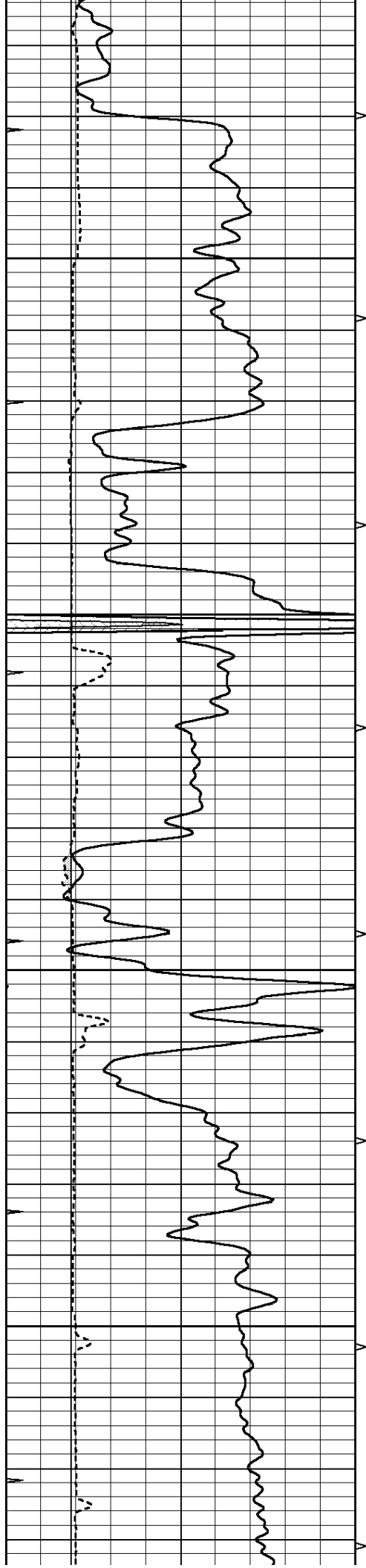
Database File: 3613pe.db  
Dataset Pathname: pass6.5  
Presentation Format: micro  
Dataset Creation: Wed Apr 17 14:13:39 2019 by Calc SOC 120430  
Charted by: Depth in Feet scaled 1:240

|   |                  |     |          |    |                |    |
|---|------------------|-----|----------|----|----------------|----|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV     | 0  | MEL1.5 (Ohm-m) | 40 |
| 6 | CALIPER (in)     | 16  | 10 (ft3) | 0  | MEL 20 (Ohm-m) | 40 |
| 0 | MINMK            | 20  | TBHV     |    |                |    |
|   |                  |     | 0 (ft3)  | 10 |                |    |







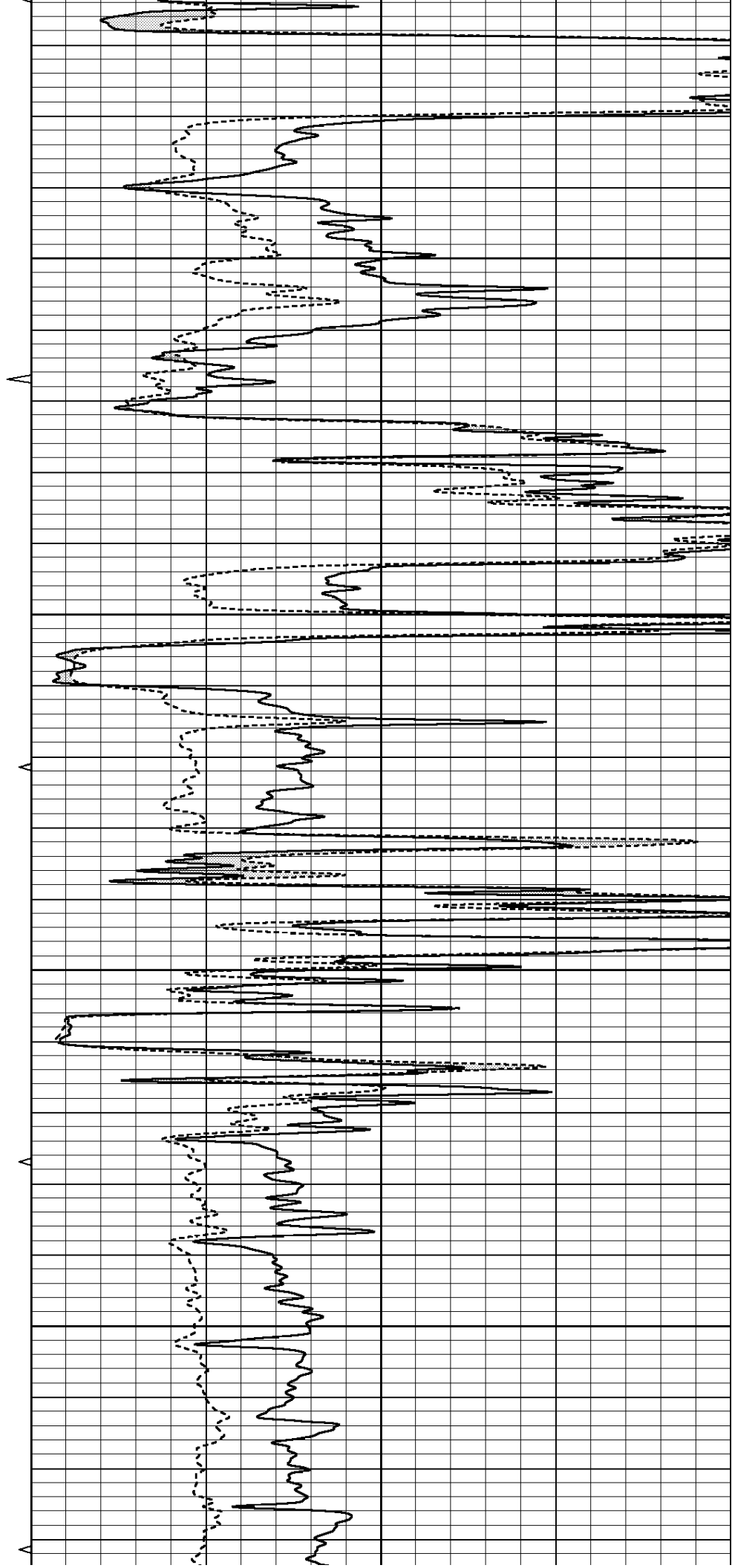


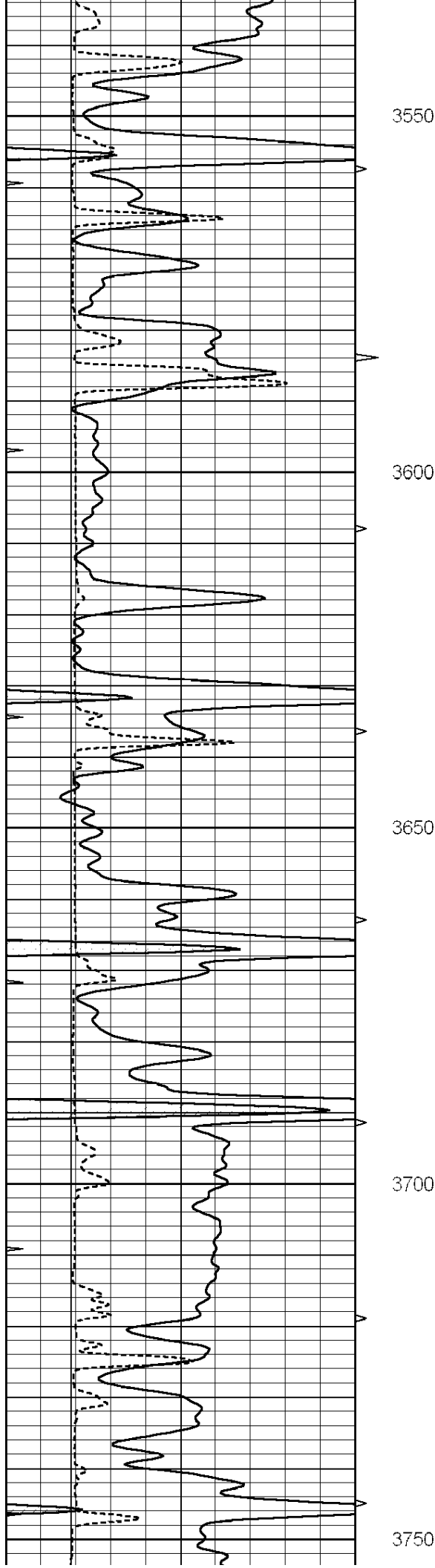
3350

3400

3450

3500





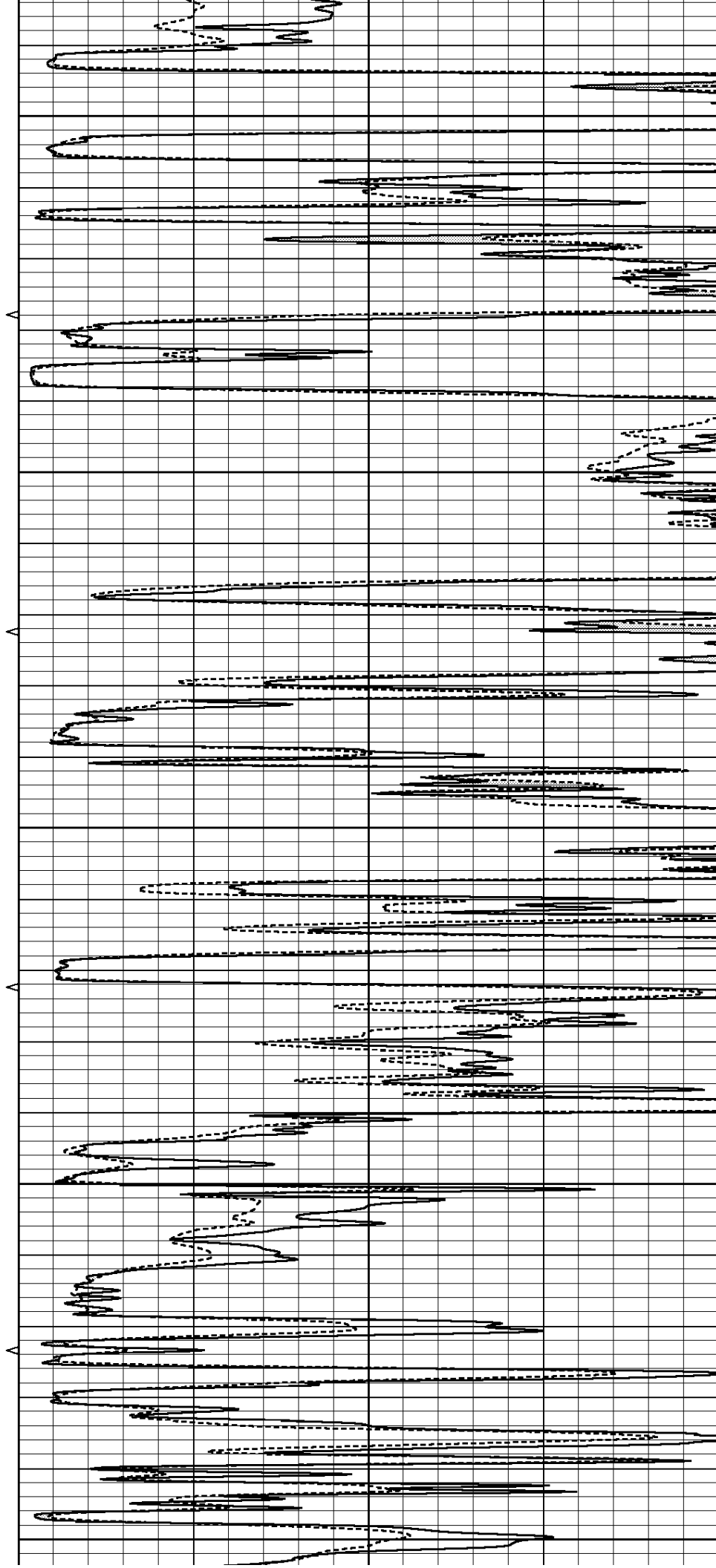
3550

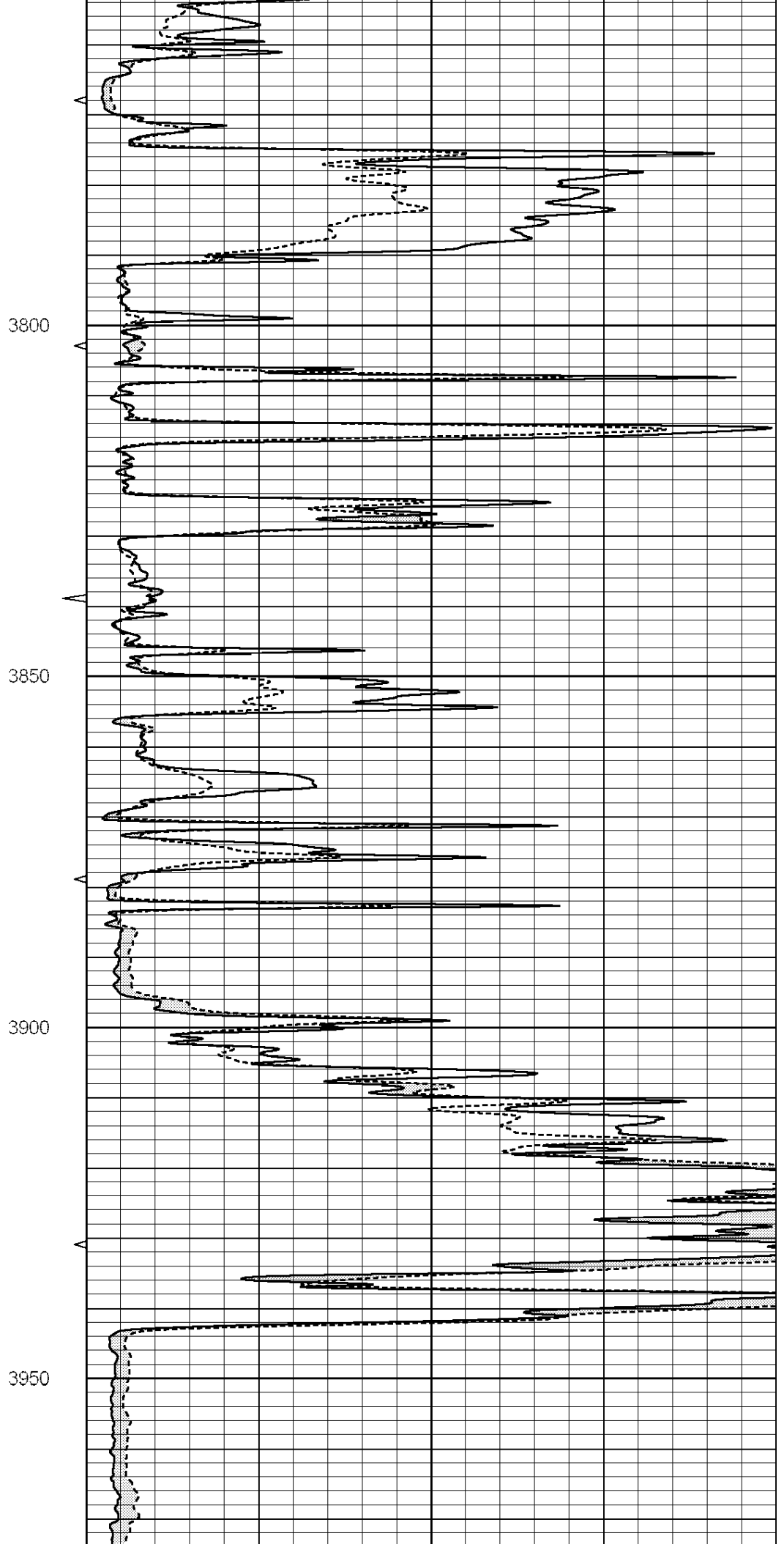
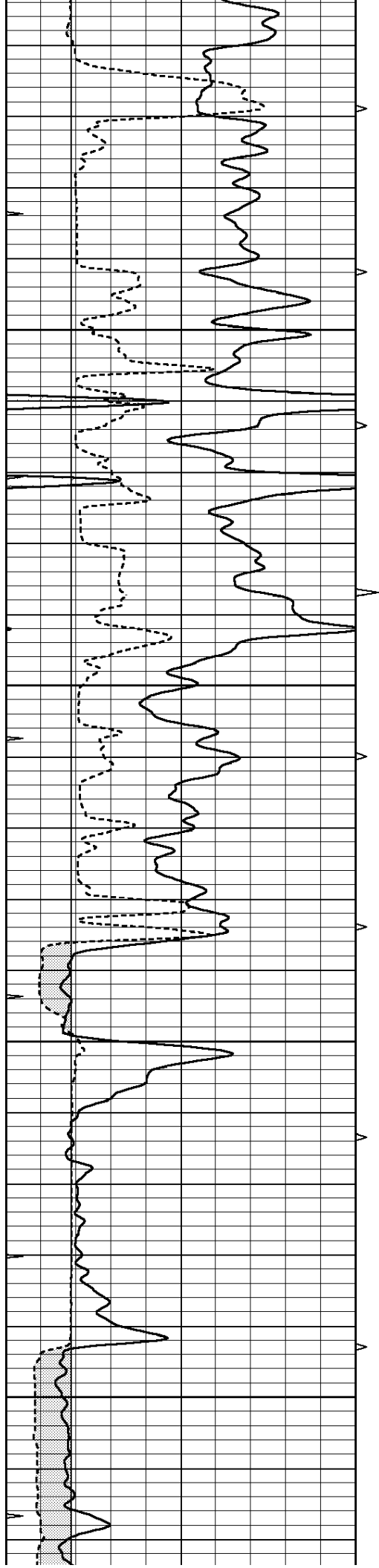
3600

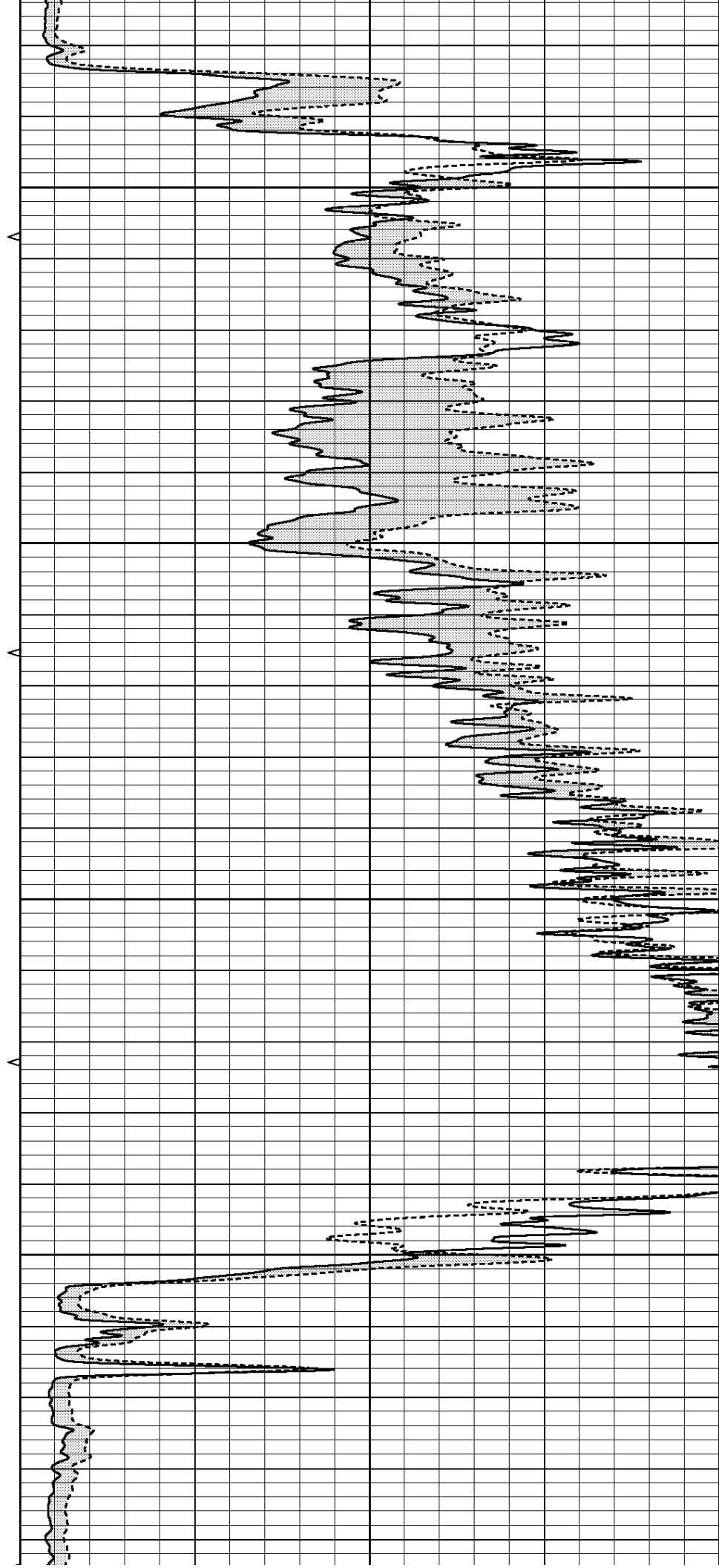
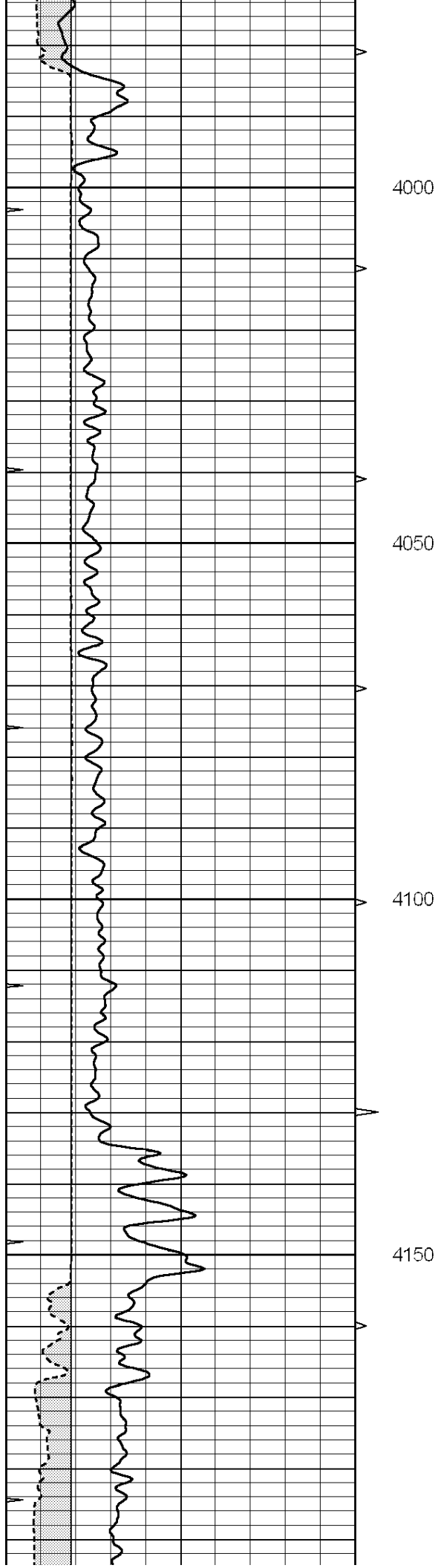
3650

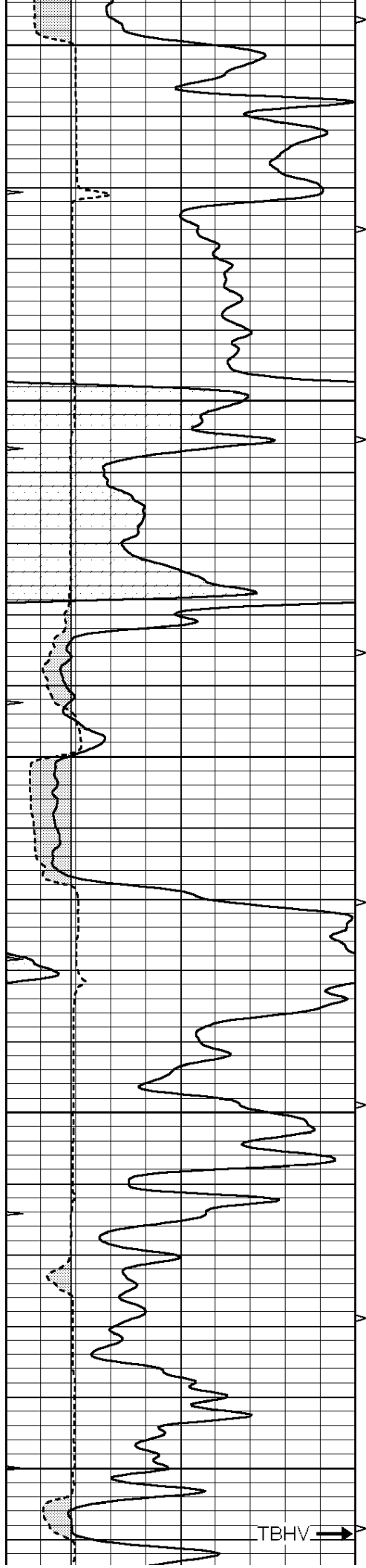
3700

3750









4200

4250

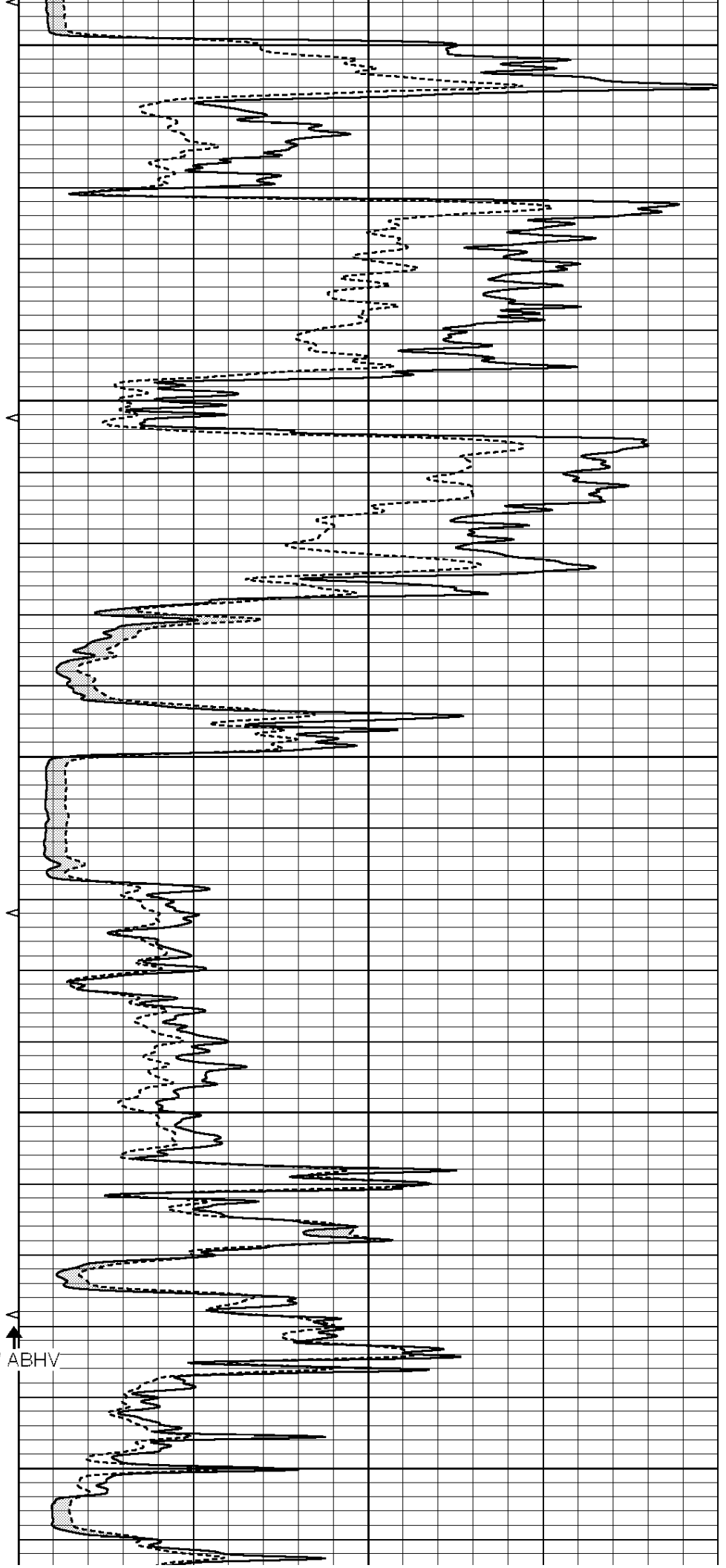
4300

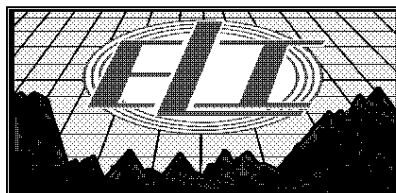
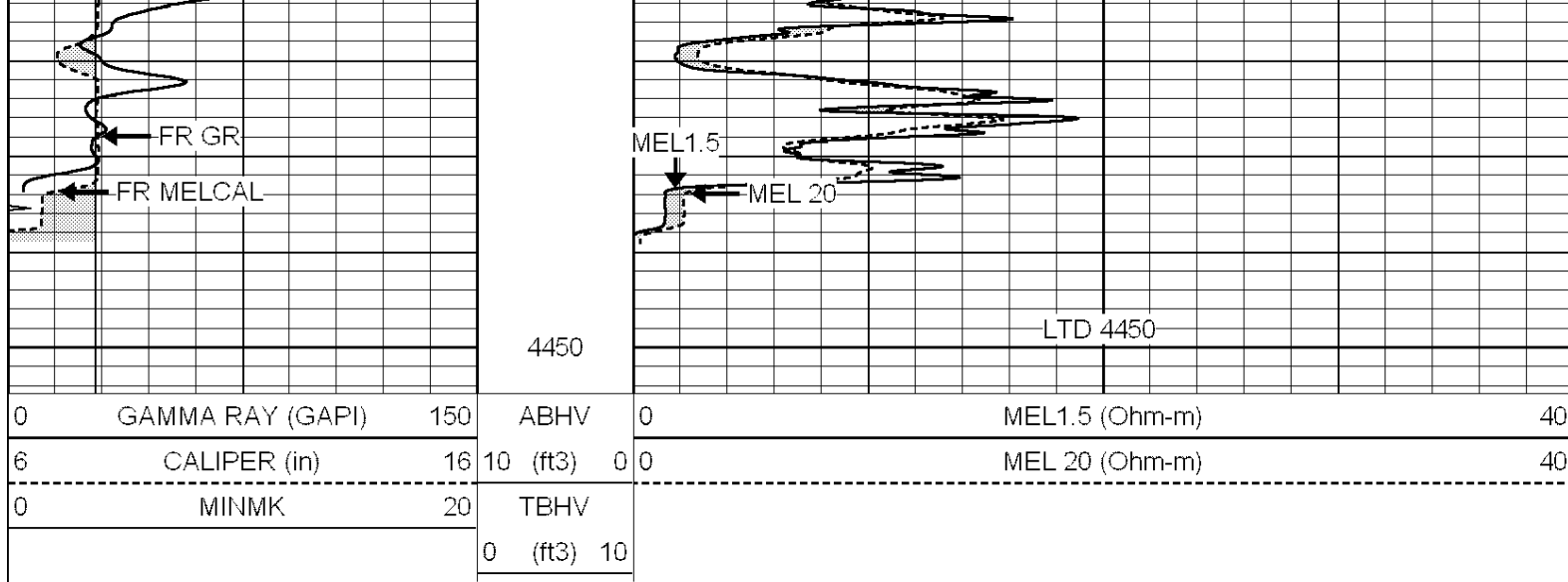
4350

4400

5.5" ABHV

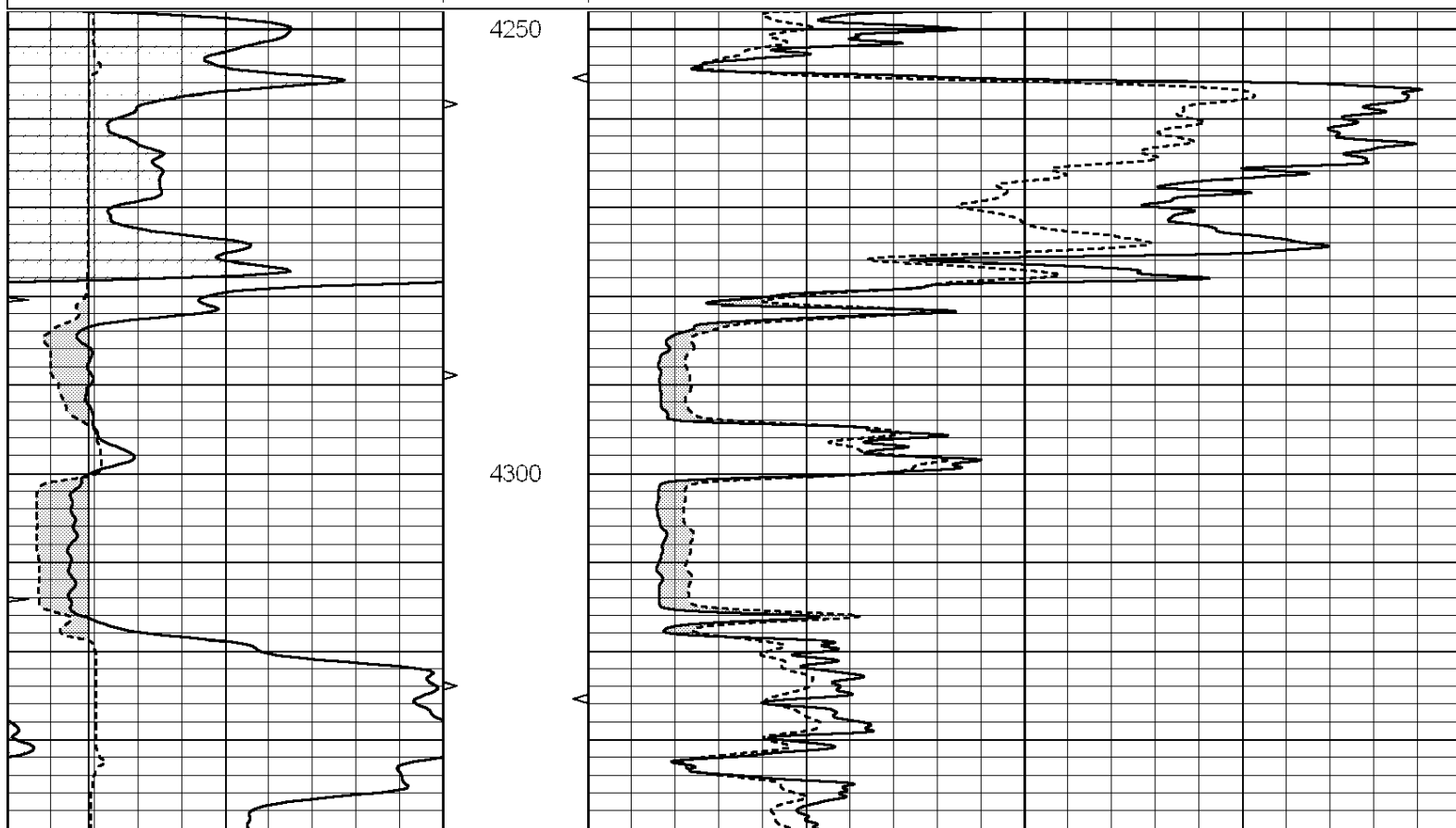
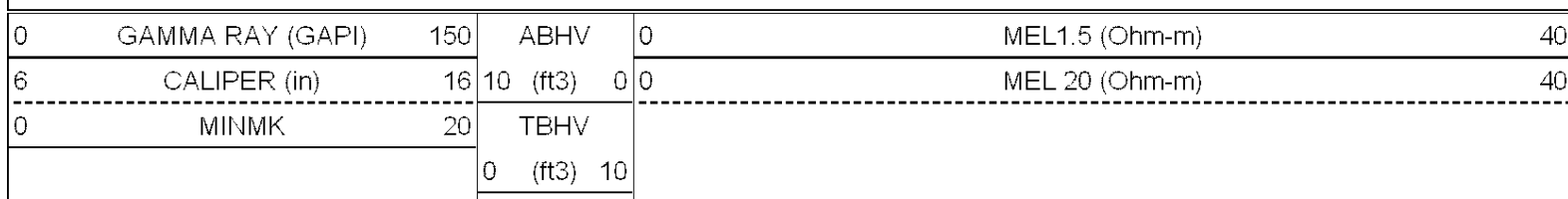
TBHV →

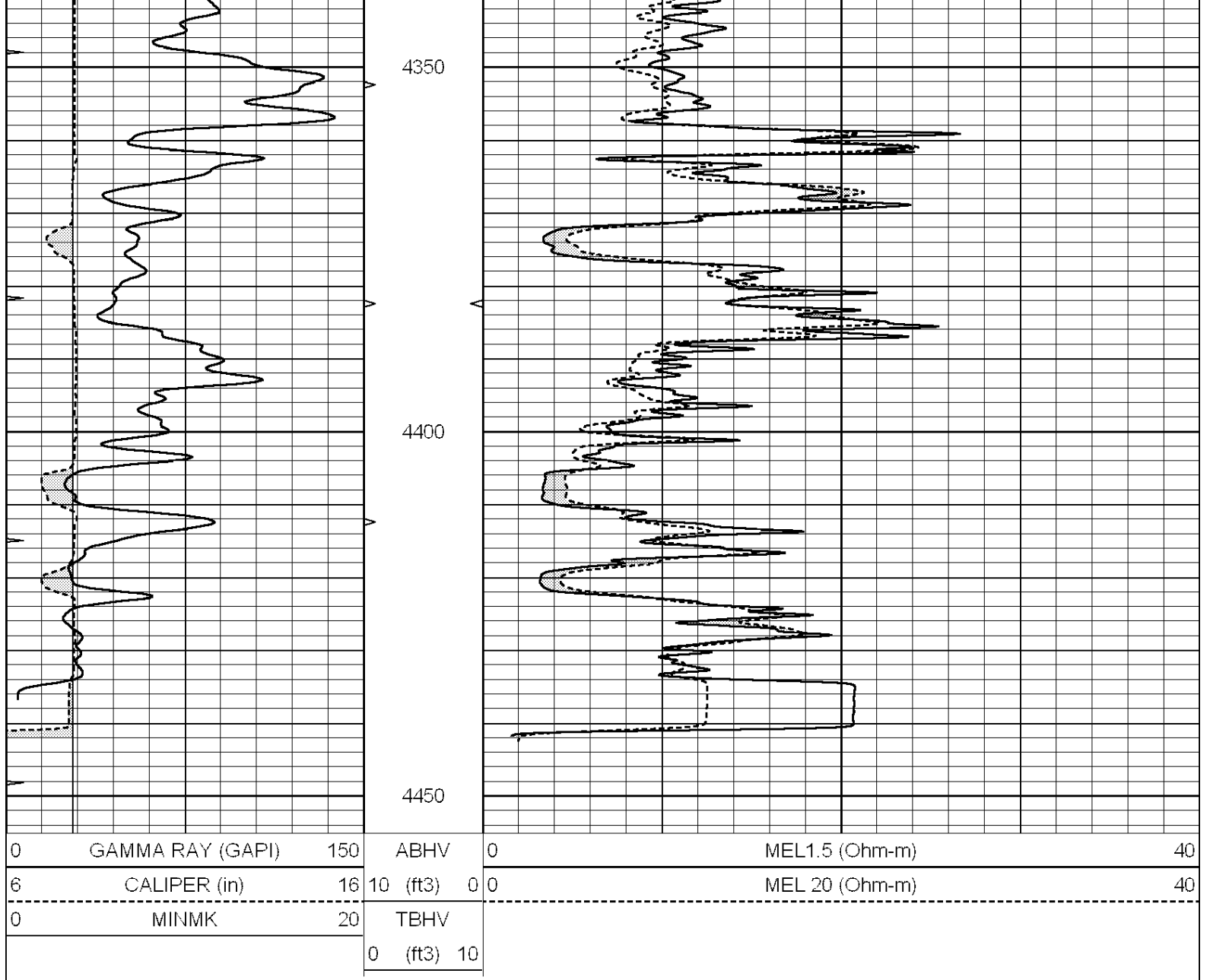




# REPEAT SECTION

Database File: 3613pe.db  
 Dataset Pathname: pass5.1  
 Presentation Format: micro  
 Dataset Creation: Wed Apr 17 13:23:45 2019 by Calc SOC 120430  
 Charted by: Depth in Feet scaled 1:240





|                          |                                             |               |  |
|--------------------------|---------------------------------------------|---------------|--|
| Calibration Report       |                                             |               |  |
| Database File:           | 3613pe.db                                   |               |  |
| Dataset Pathname:        | pass6.5                                     |               |  |
| Dataset Creation:        | Wed Apr 17 14:13:39 2019 by Calc SOC 120430 |               |  |
| MICRO Calibration Report |                                             |               |  |
| Serial Number:           | 070912                                      |               |  |
| Tool Model:              | ProbeN                                      |               |  |
| Performed:               | Wed Apr 17 03:16:55 2019                    |               |  |
| Caliper Calibration:     | Gain=4.255                                  | Offset=-1.149 |  |
| References               | Low Cal                                     | High Cal      |  |
| Readings                 | 8.000                                       | 18.000        |  |
|                          | 2.150                                       | 4.500         |  |
| 1.5" Calibration:        | Gain=42.000                                 | Offset=0.000  |  |
| References               | Low Cal                                     | High Cal      |  |
| Readings                 | 0.000                                       | 20.000        |  |
|                          | 0.002                                       | 1.239         |  |
| 2" Calibration:          | Gain=44.000                                 | Offset=0.300  |  |

|            |         |          |
|------------|---------|----------|
| References | Low Cal | High Cal |
| Readings   | 0.000   | 20.000   |
|            | 0.003   | 1.075    |

|                              |
|------------------------------|
| Gamma Ray Calibration Report |
|------------------------------|

|                     |                          |          |
|---------------------|--------------------------|----------|
| Serial Number:      | 070559                   |          |
| Tool Model:         | OPEN_GR                  |          |
| Performed:          | Wed Apr 17 13:23:05 2019 |          |
| Calibrator Value:   | 1.0                      | GAPI     |
| Background Reading: | 0.0                      | cps      |
| Calibrator Reading: | 1.0                      | cps      |
| Sensitivity:        | 0.2200                   | GAPI/cps |