



# MICRO LOG

|                              |                                                                        |                     |                                      |
|------------------------------|------------------------------------------------------------------------|---------------------|--------------------------------------|
| Company                      | SHELBY RESOURCES, LLC                                                  |                     |                                      |
| Well                         | FROETSCHNER #1-12                                                      |                     |                                      |
| Field                        | WILDCAT                                                                |                     |                                      |
| County                       | PAWNEE                                                                 | State               | KANSAS                               |
| Location:                    | APL # : 15-145-21833-0000<br>1860' FNL & 526' FEL<br>SW - NE - SE - NE |                     | Other Services<br>CDL/CNL<br>DIL/SON |
| Permanent Datum              | GROUND LEVEL                                                           | Elevation           | 2020                                 |
| Log Measured From            | KELLY BUSHING 11' A.G.L.                                               |                     |                                      |
| Drilling Measured From       | KELLY BUSHING                                                          |                     |                                      |
| Date                         | 7/5/18                                                                 |                     |                                      |
| Run Number                   | TWO                                                                    |                     |                                      |
| Depth Driller                | 4020                                                                   |                     |                                      |
| Depth Logger                 | 4020                                                                   |                     |                                      |
| Bottom Logged Interval       | 4004                                                                   |                     |                                      |
| Top Log Interval             | 3000                                                                   |                     |                                      |
| Casing Driller               | 8 5/8" @ 1057'                                                         |                     |                                      |
| Casing Logger                | 1057                                                                   |                     |                                      |
| Bit Size                     | 7 7/8"                                                                 |                     |                                      |
| Type Fluid in Hole           | CHEMICAL MUD                                                           | CHLORIDES 5,600 PPM |                                      |
| Density / Viscosity          | 9.3/59                                                                 |                     |                                      |
| pH / Fluid Loss              | 10.5/8.8                                                               |                     |                                      |
| Source of Sample             | FLOWLINE                                                               |                     |                                      |
| Rim @ Meas. Temp             | .600 @ 90F                                                             |                     |                                      |
| Rmf @ Meas. Temp             | .450 @ 90F                                                             |                     |                                      |
| Rmc @ Meas. Temp             | .720 @ 90F                                                             |                     |                                      |
| Source of Rmf / Rmc          | MEASUREMENT                                                            |                     |                                      |
| Rim @ BHT                    | .466 @ 116F                                                            |                     |                                      |
| Time Circulation Stopped     | 2 HOURS                                                                |                     |                                      |
| Time Logger on Bottom        | 10:30 A.M.                                                             |                     |                                      |
| Maximum Recorded Temperature | 116F                                                                   |                     |                                      |
| Equipment Number             | 922339                                                                 |                     |                                      |
| Location                     | HAYS, KANSAS                                                           |                     |                                      |
| Recorded By                  | JEFF LUEBBERS                                                          |                     |                                      |
| Witnessed By                 | JEREMY SCHWARTZ                                                        |                     |                                      |

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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

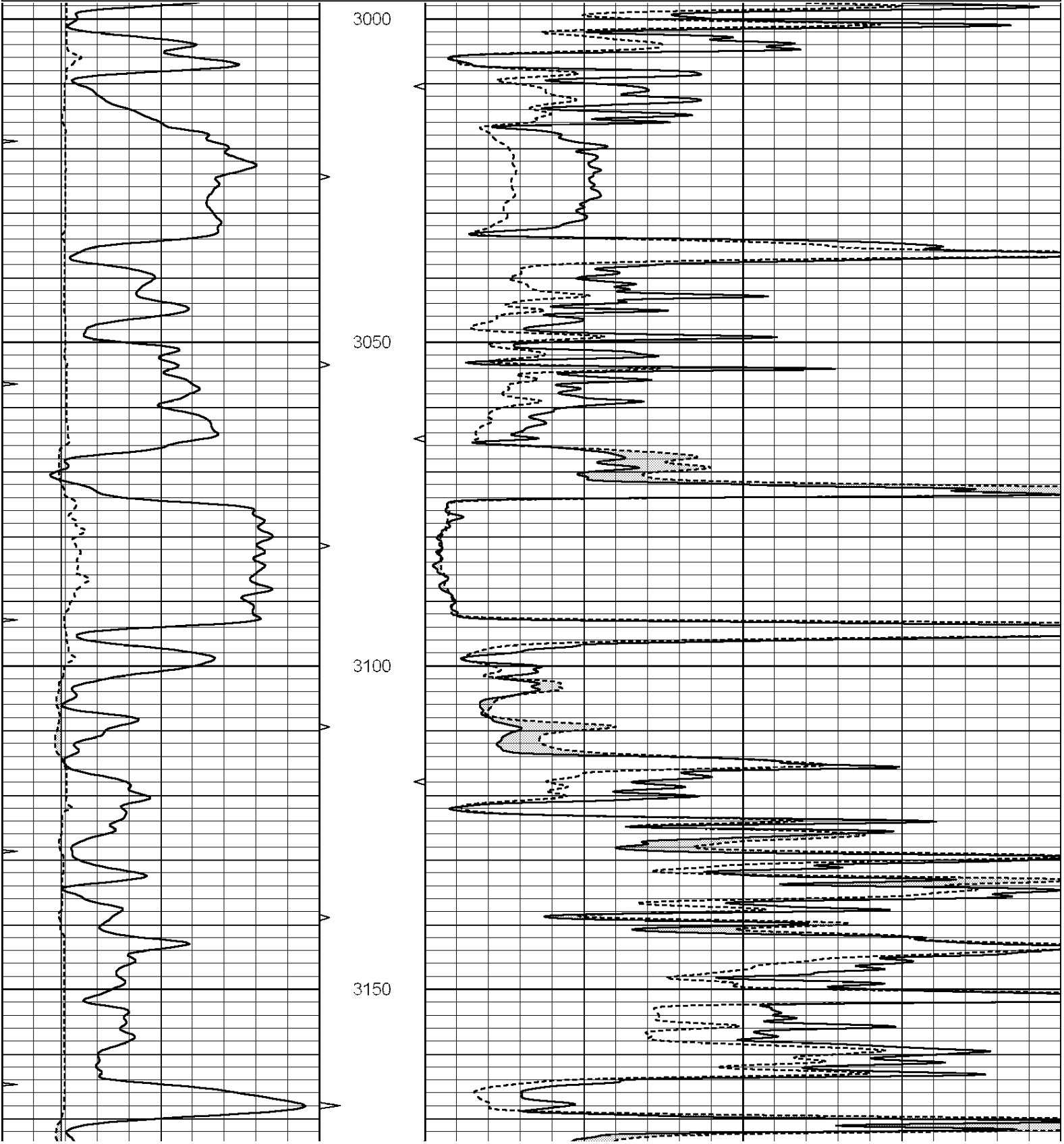
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395  
DIRECTIONS  
LARNED, KS., (MAIN ST. & HWY 56) 2 S.W. ON HWY 56, N. INTO

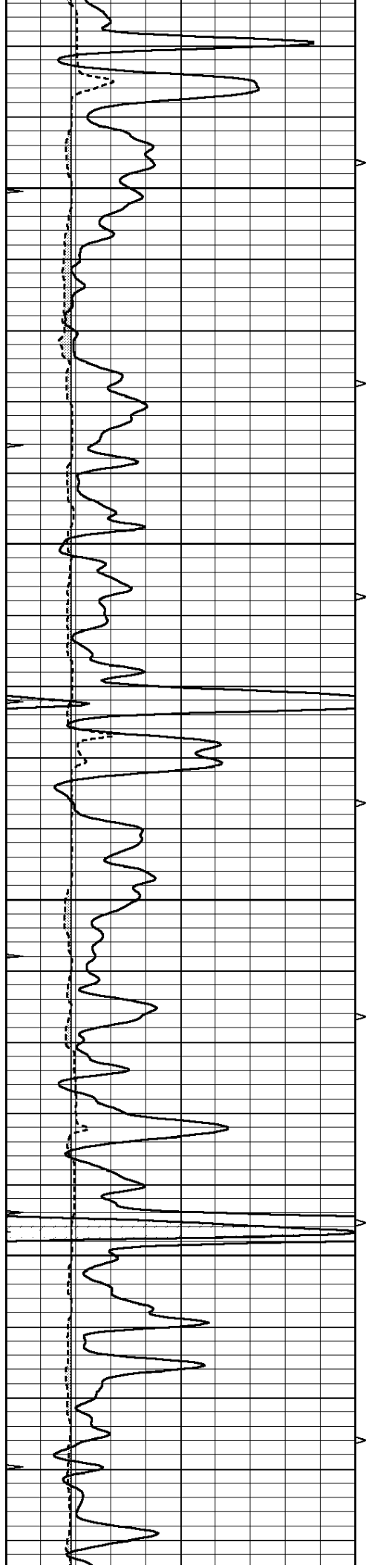


# MAIN SECTION

Database File: 2658ddn.db  
Dataset Pathname: pass6.4  
Presentation Format: micro  
Dataset Creation: Thu Jul 05 11:18:23 2018  
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 |                |    |



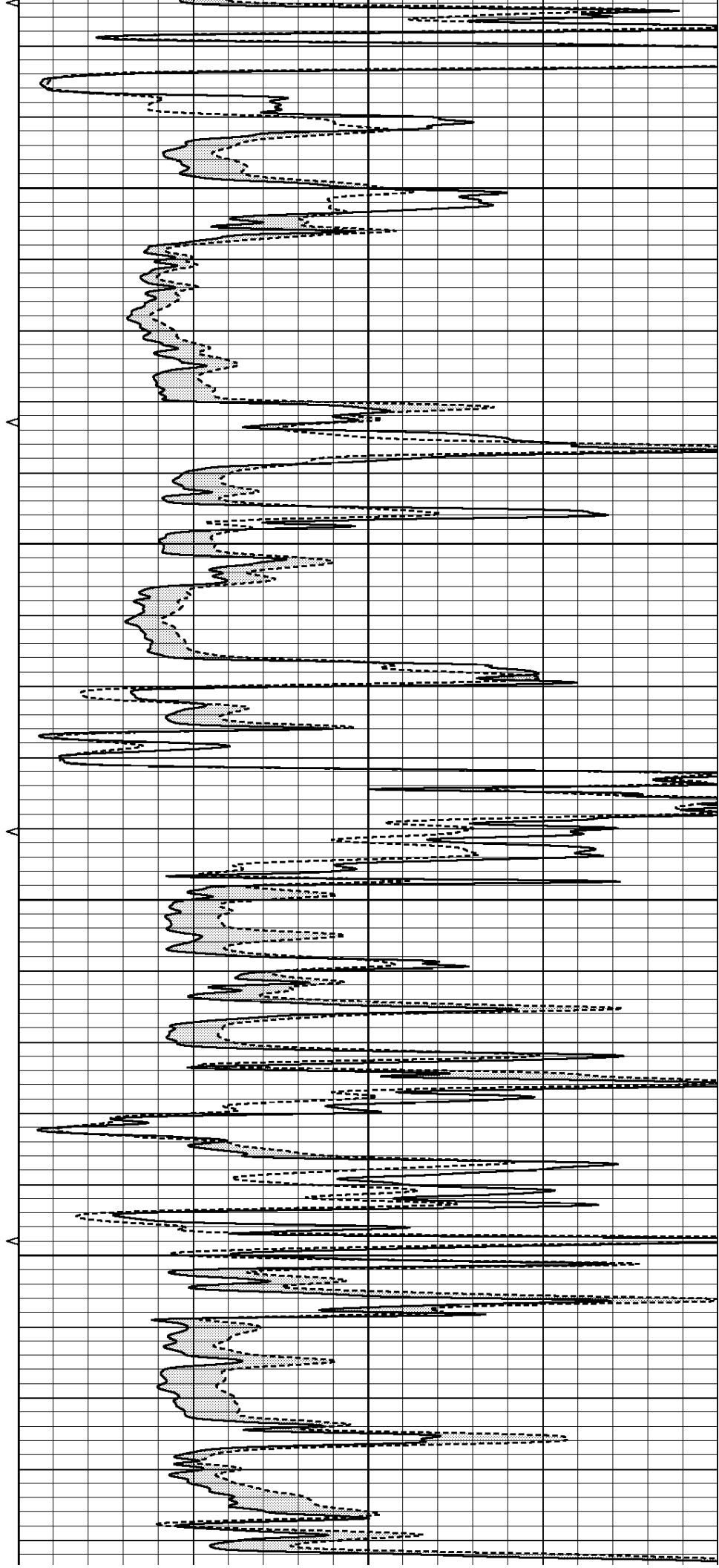


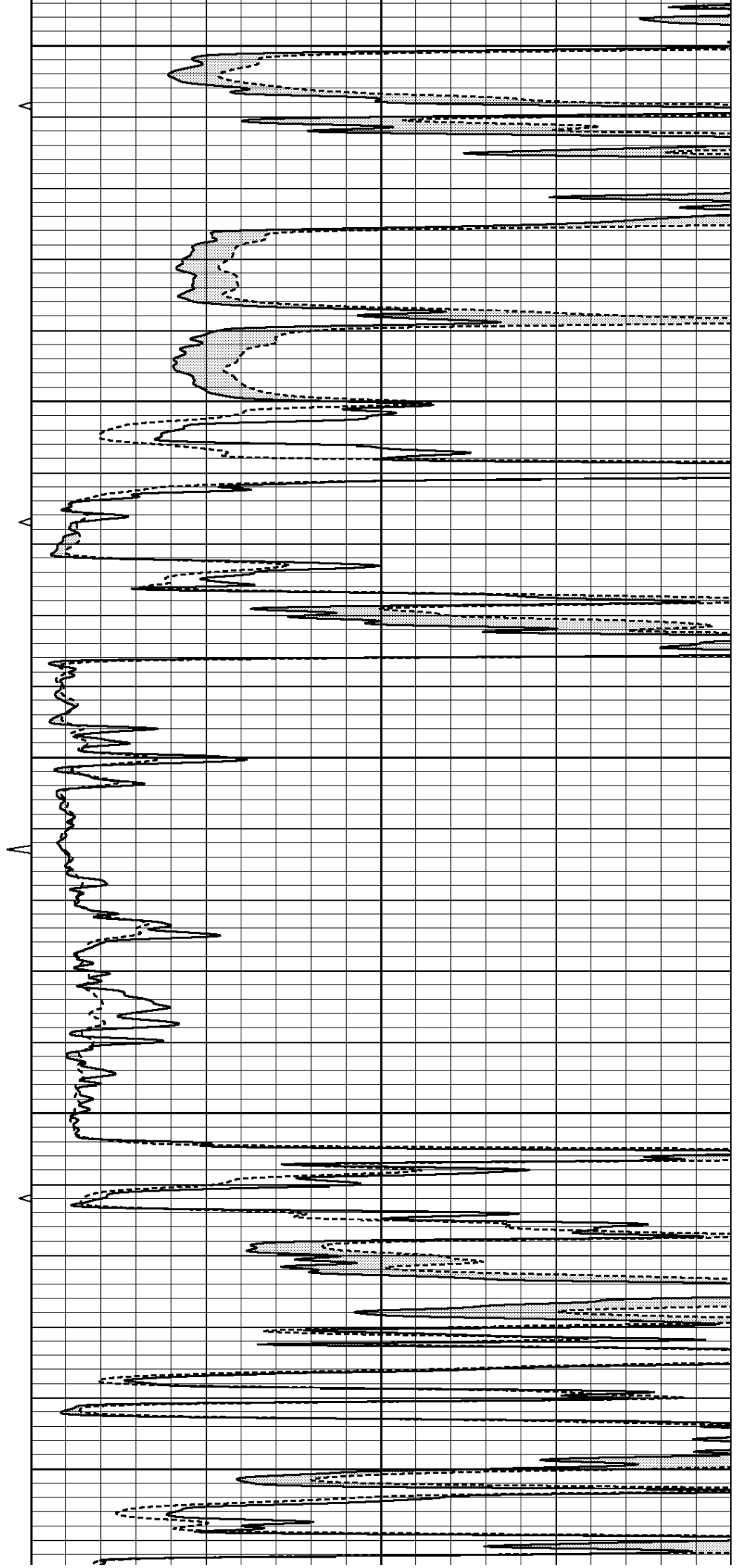
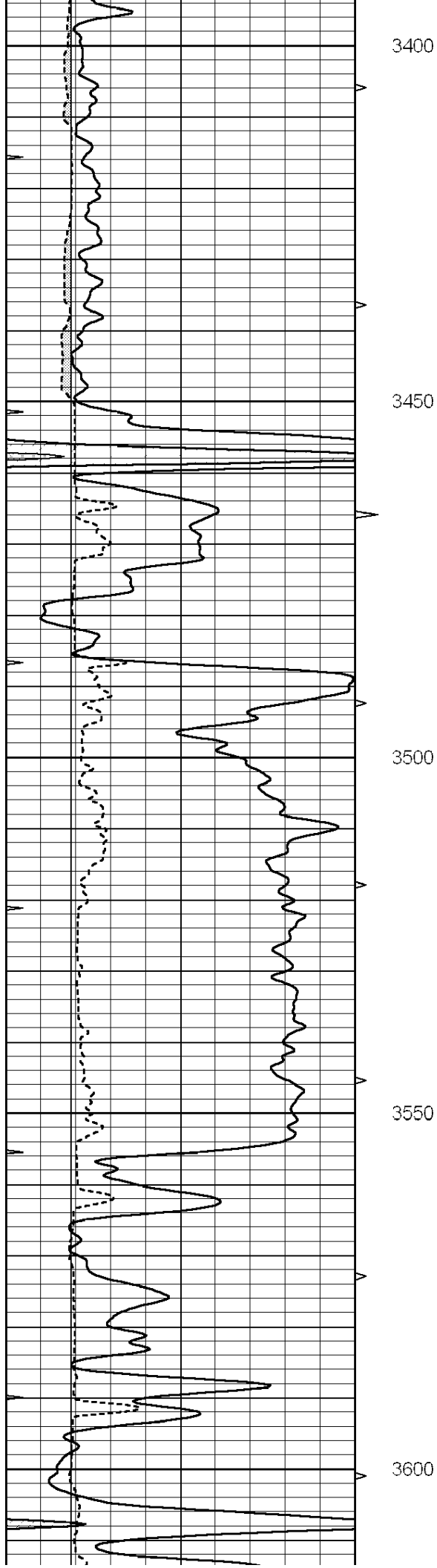
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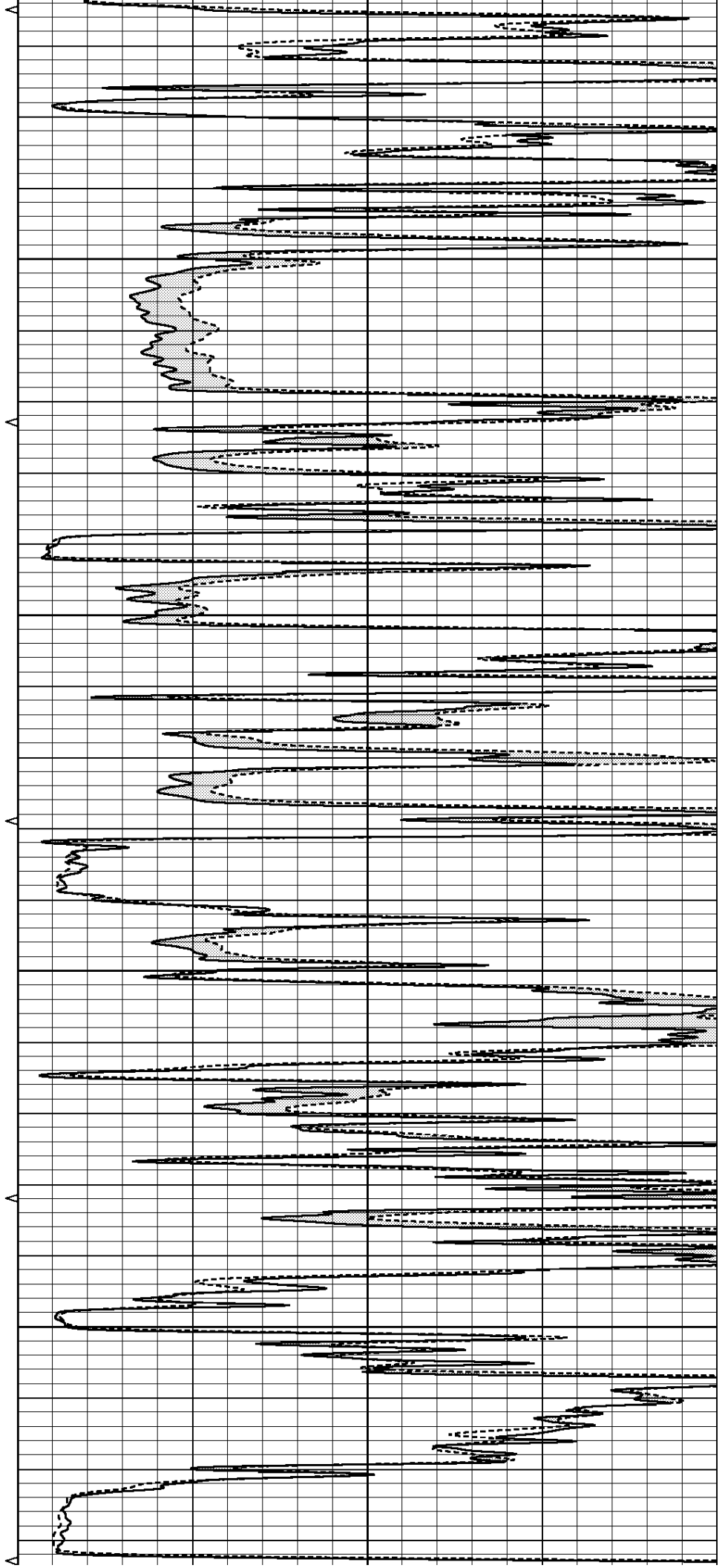
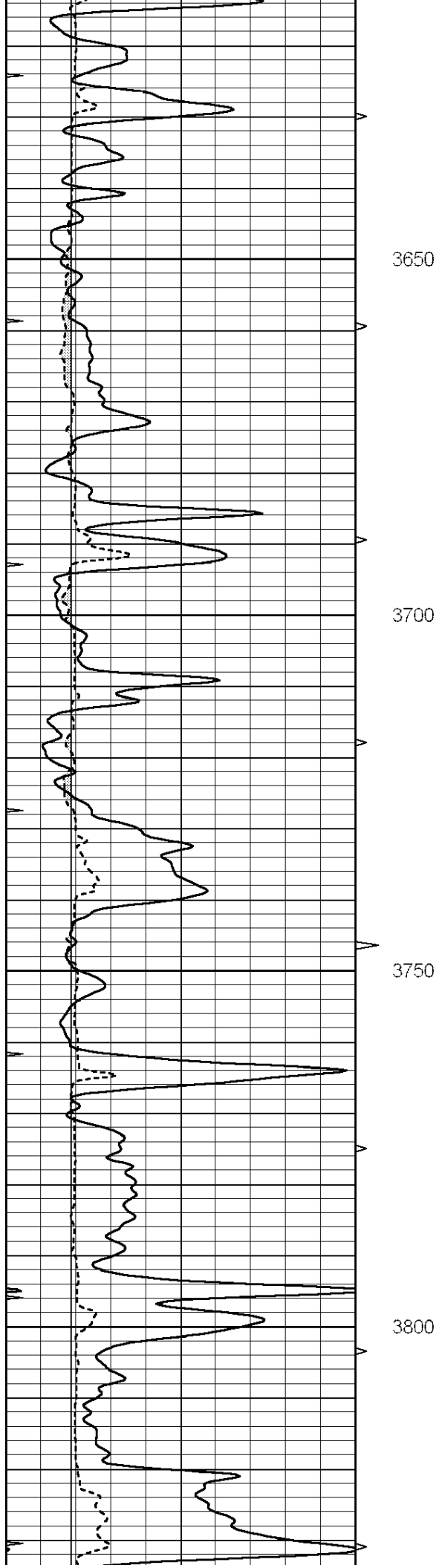
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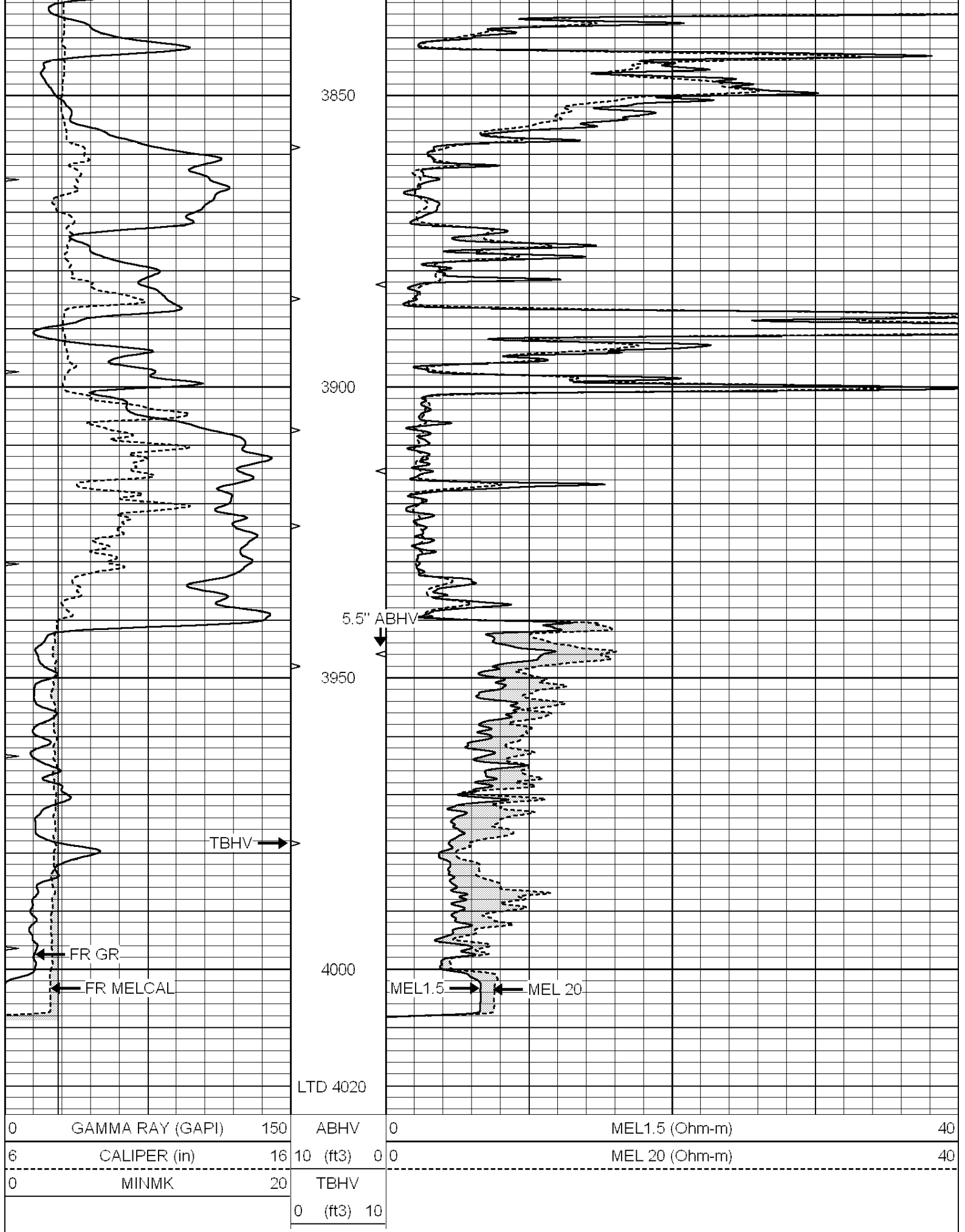
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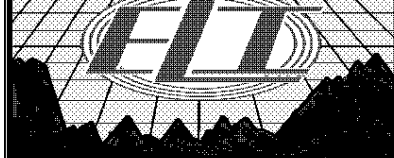
3350







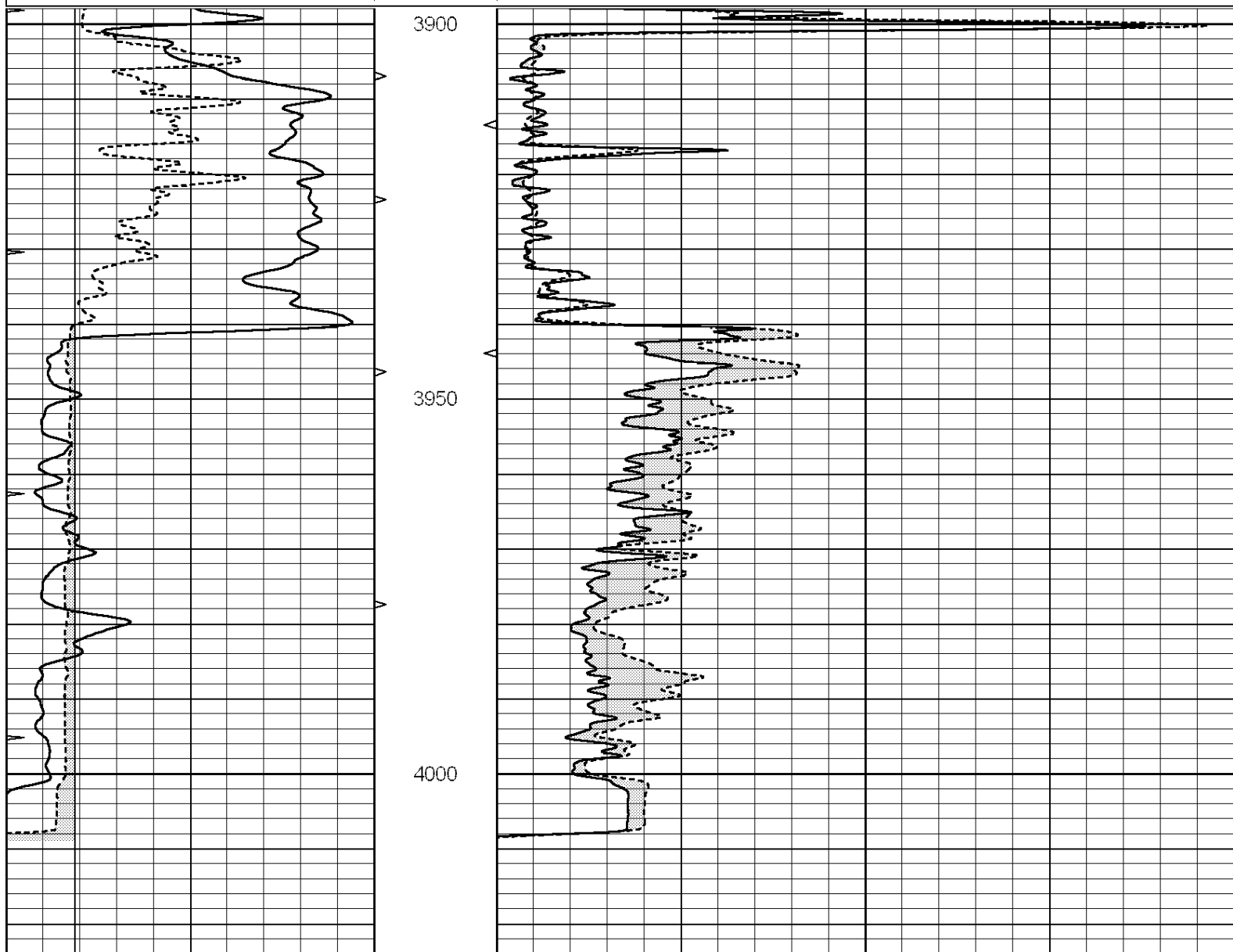




# REPEAT SECTION

Database File: 2658ddn.db  
Dataset Pathname: pass5.3  
Presentation Format: micro  
Dataset Creation: Thu Jul 05 10:45:52 2018 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 0 | MEL 20 (Ohm-m) | 40 |
| 0 | MINMK            | 20  | TBHV     |     |                |    |
|   |                  |     | 0 (ft3)  | 10  |                |    |



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

## Calibration Report

Database File: 2658ddn.db  
Dataset Pathname: pass6.4

## MICRO Calibration Report

Serial Number: 070911  
Tool Model: ProbeN  
Performed: Thu Jul 05 10:33:57 2018

Caliper Calibration: Gain=3.856 Offset=2.285

|            |         |          |
|------------|---------|----------|
|            | Low Cal | High Cal |
| References | 7.800   | 18.000   |
| Readings   | 1.430   | 4.075    |

1.5" Calibration: Gain=34.000 Offset=-0.600

|            |         |          |
|------------|---------|----------|
|            | Low Cal | High Cal |
| References | 0.000   | 20.000   |
| Readings   | 0.001   | 1.240    |

2" Calibration: Gain=40.000 Offset=-0.500

|            |         |          |
|------------|---------|----------|
|            | Low Cal | High Cal |
| References | 0.000   | 20.000   |
| Readings   | 0.001   | 1.076    |

## Gamma Ray Calibration Report

Serial Number: 110959  
Tool Model: OPEN\_GR  
Performed: Tue Jun 05 07:01:22 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.2400 GAPI/cps