



**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**MICRO  
LOG**

|                              |                     |                        |                            |                                     |
|------------------------------|---------------------|------------------------|----------------------------|-------------------------------------|
| Company                      | HERMAN L. LOEB, LLC | Location:              | API # : 15-191-22747-00-00 | Other Services<br>CNL/CDL/PE<br>DIL |
| Well                         | CLARK #7            | SEC 2                  | TWP 31S                    | RGE 3W                              |
| Field                        | MOYER NORTHWEST     | Permanent Datum        | GROUND LEVEL               | Elevation 1289                      |
| County                       | SUMNER              | Log Measured From      | KELLY BUSHING 9' A.G.L.    | K.B. 1288                           |
| State                        | KANSAS              | Drilling Measured From | KELLY BUSHING              | D.F. 1286                           |
|                              |                     |                        |                            | G.L. 1289                           |
| Date                         | 5-26-14             |                        |                            |                                     |
| Run Number                   | TW0                 |                        |                            |                                     |
| Depth Driller                | 3400                |                        |                            |                                     |
| Depth Logger                 | 3399                |                        |                            |                                     |
| Bottom Logged Interval       | 3397                |                        |                            |                                     |
| Top Log Interval             | 1900                |                        |                            |                                     |
| Casing Driller               | 8 5/8" @ 260'       |                        |                            |                                     |
| Casing Logger                | 260'                |                        |                            |                                     |
| Bit Size                     | 7 7/8"              |                        |                            |                                     |
| Type Fluid in Hole           | CHEMICAL MUD        |                        | CHLORIDES 3,200 PPM        |                                     |
| Density / Viscosity          | 9.2/50              |                        |                            |                                     |
| pH / Fluid Loss              | 10.5/8.8            |                        |                            |                                     |
| Source of Sample             | FLOWLINE            |                        |                            |                                     |
| Rim @ Meas. Temp             | 0.90 @ 88F          |                        |                            |                                     |
| Rmf @ Meas. Temp             | 0.68 @ 88F          |                        |                            |                                     |
| Rmc @ Meas. Temp             | 1.08 @ 88F          |                        |                            |                                     |
| Source of Rmf / Rmc          | MEASUREMENT         |                        |                            |                                     |
| Rim @ BHT                    | 0.74 @ 108F         |                        |                            |                                     |
| Time Circulation Stopped     | 2 HOURS             |                        |                            |                                     |
| Time Logger on Bottom        |                     |                        |                            |                                     |
| Maximum Recorded Temperature | 108F                |                        |                            |                                     |
| Equipment Number             | 860                 |                        |                            |                                     |
| Location                     | HAYS, KANSAS        |                        |                            |                                     |
| Recorded By                  | IAN MABB            |                        |                            |                                     |
| Witnessed By                 | DOUG DAVIS          |                        |                            |                                     |

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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 "NABORS" HAYS, KANSAS (785) 628-6395

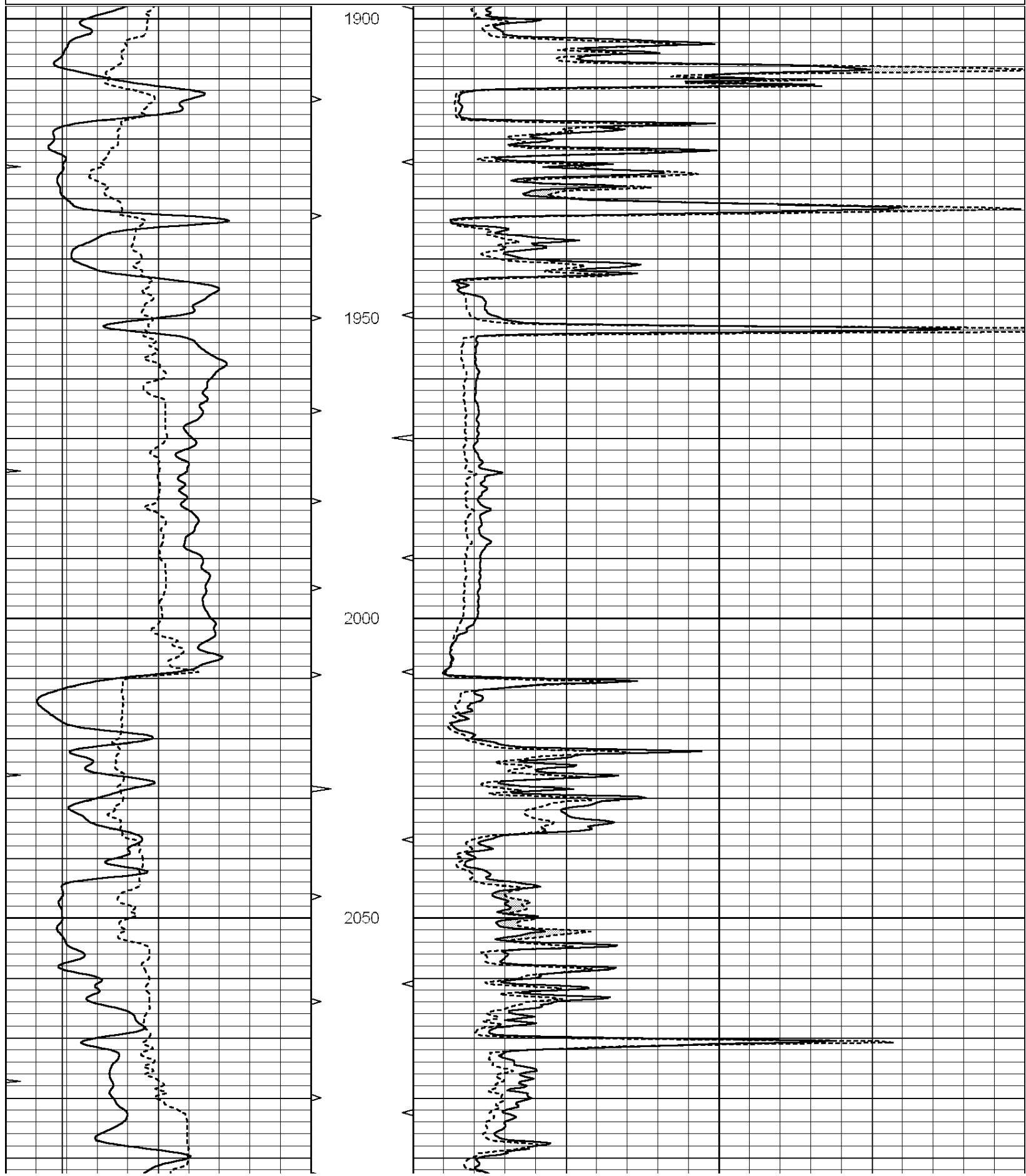
DIRECTIONS:

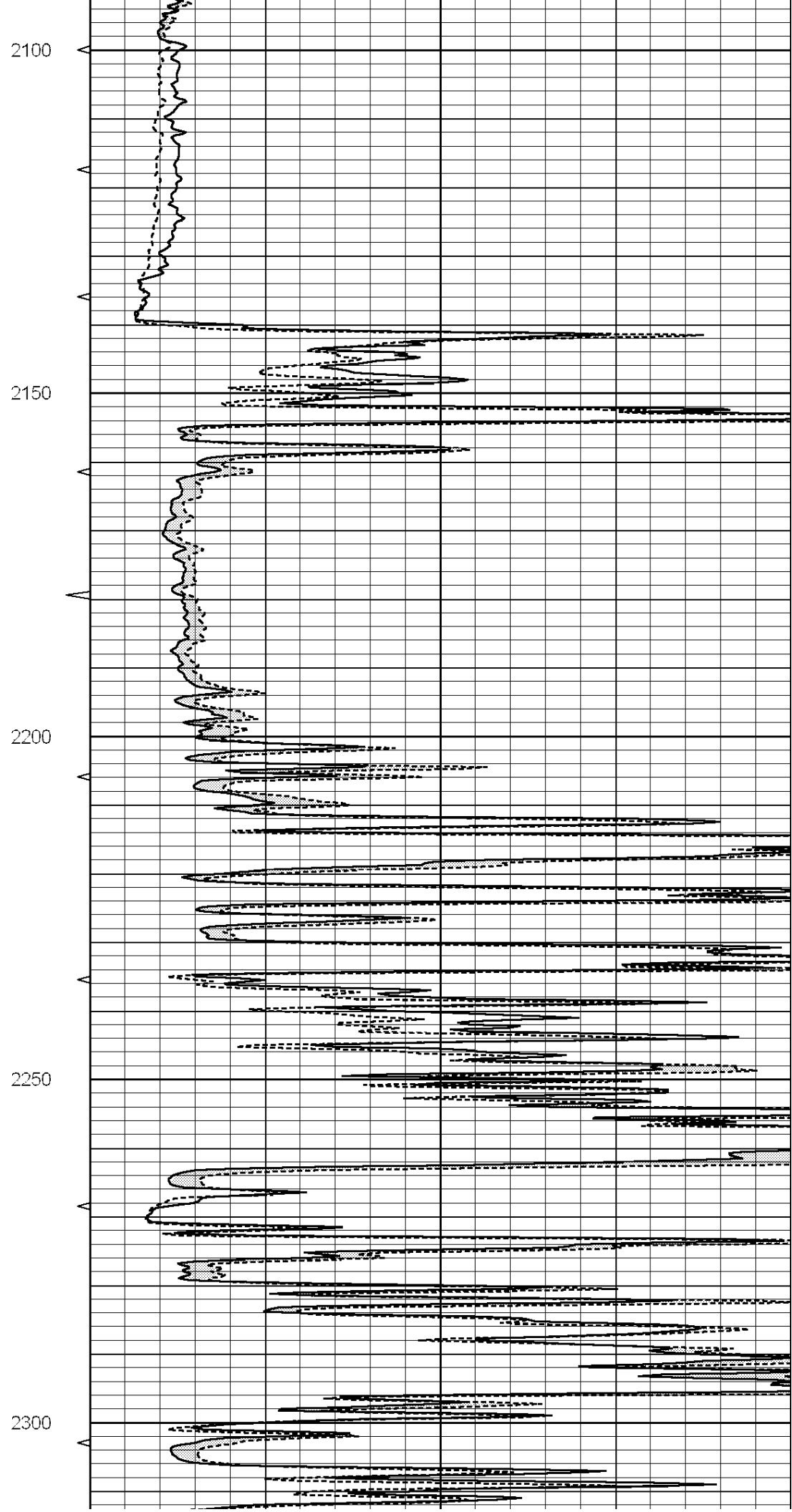
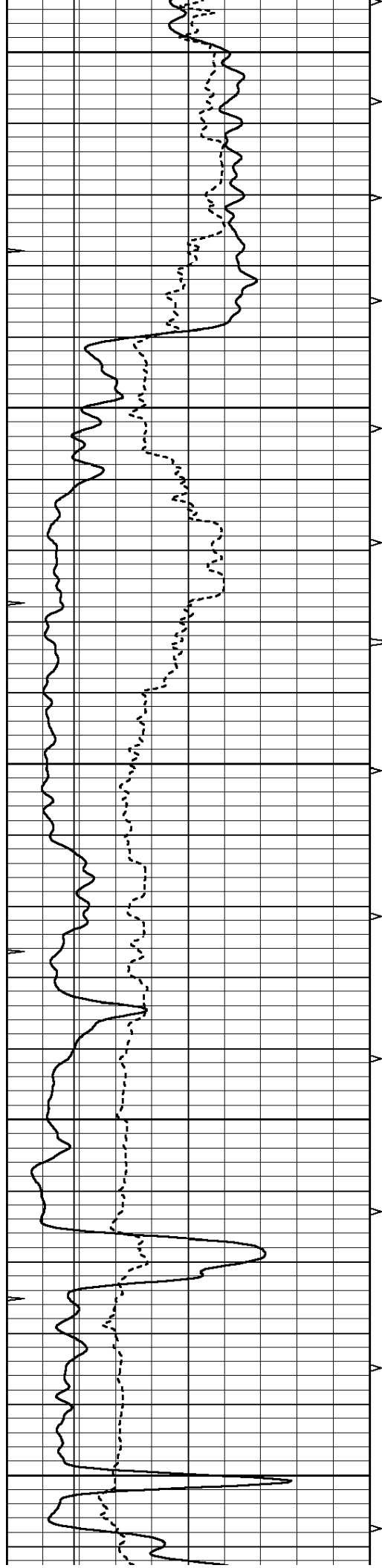
PLAINVILLE, KS - 2 MILES SOUTH TO BB RD

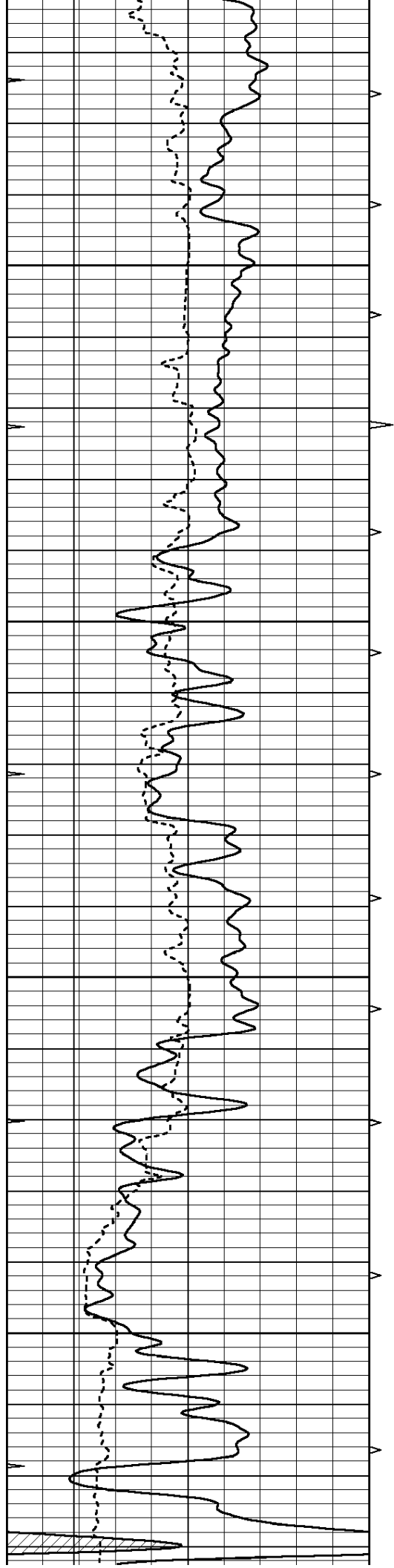
2 3/4 MILES EAST - SOUTH & EAST INTO

|       |                  |     |
|-------|------------------|-----|
| 0     | GAMMA RAY (GAPI) | 150 |
| 6     | MELCAL (in)      | 16  |
| <hr/> |                  |     |
| 0     | MINMK            | 20  |

|       |                |    |
|-------|----------------|----|
| 0     | MEL1.5 (Ohm-m) | 40 |
| 0     | MEL2.0 (Ohm-m) | 40 |
| <hr/> |                |    |





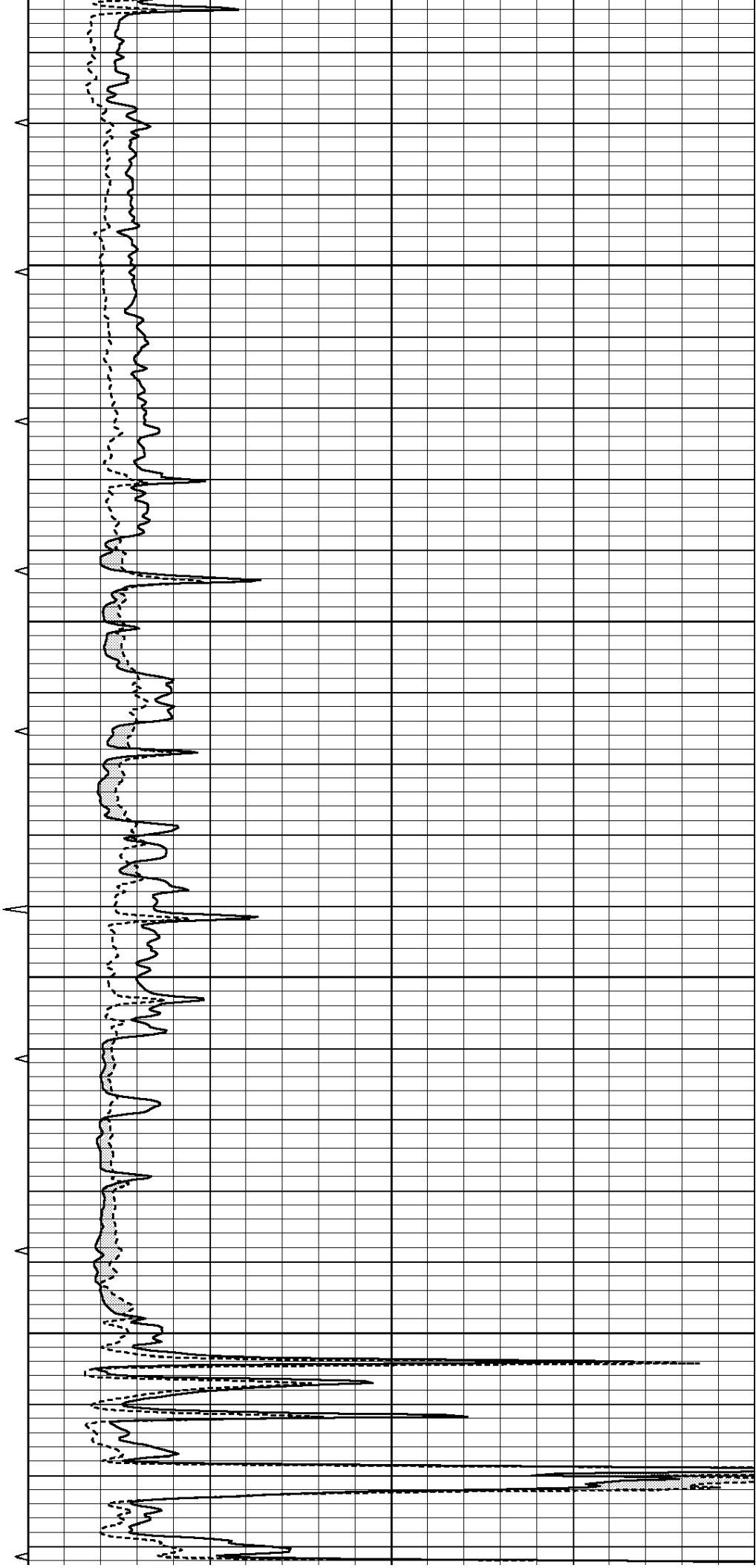


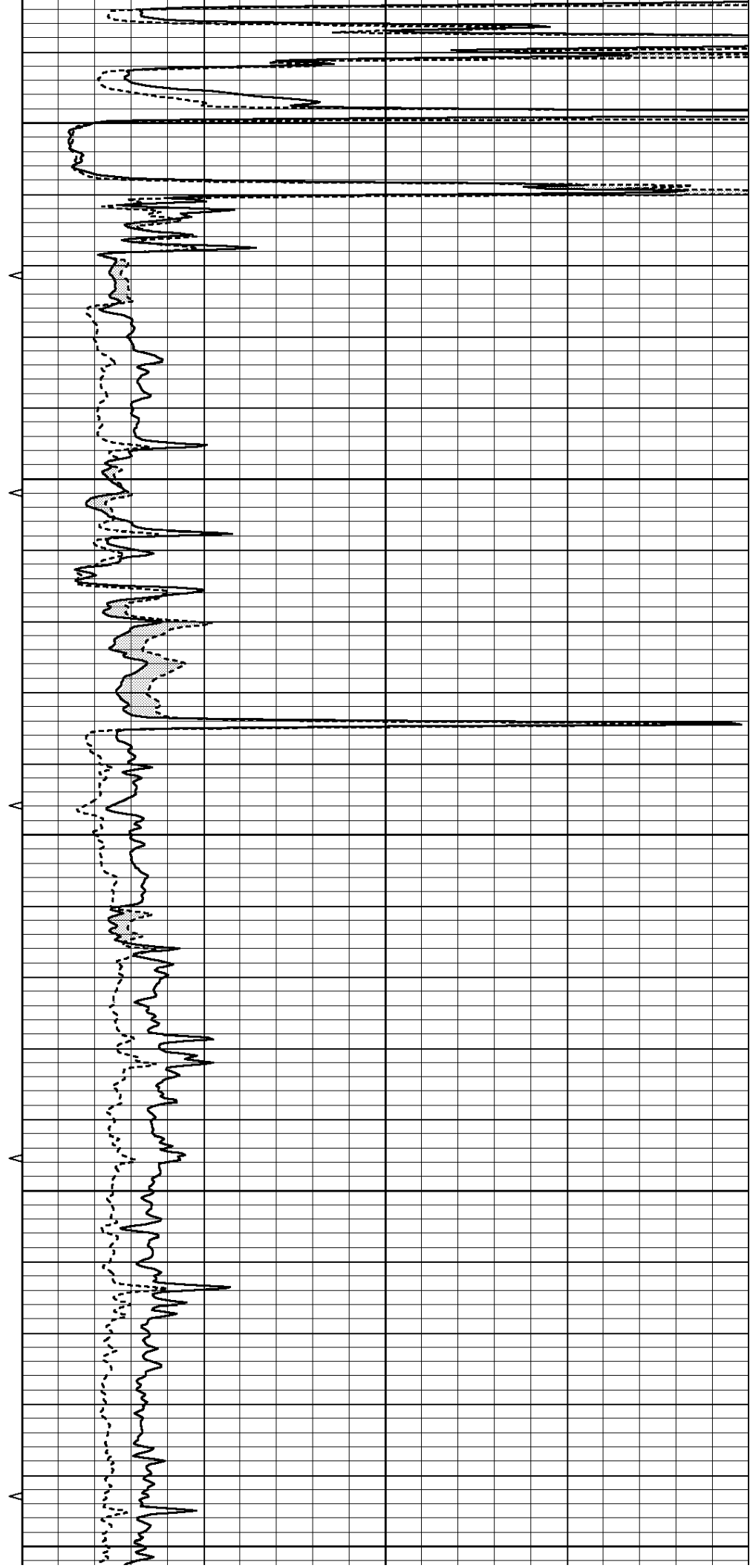
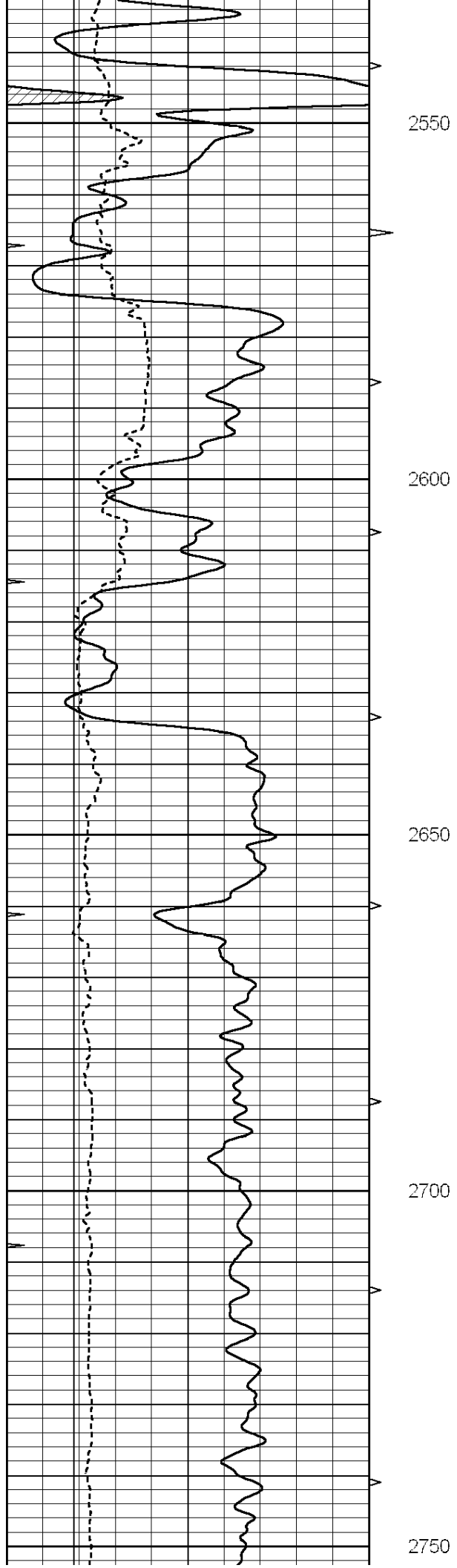
2350

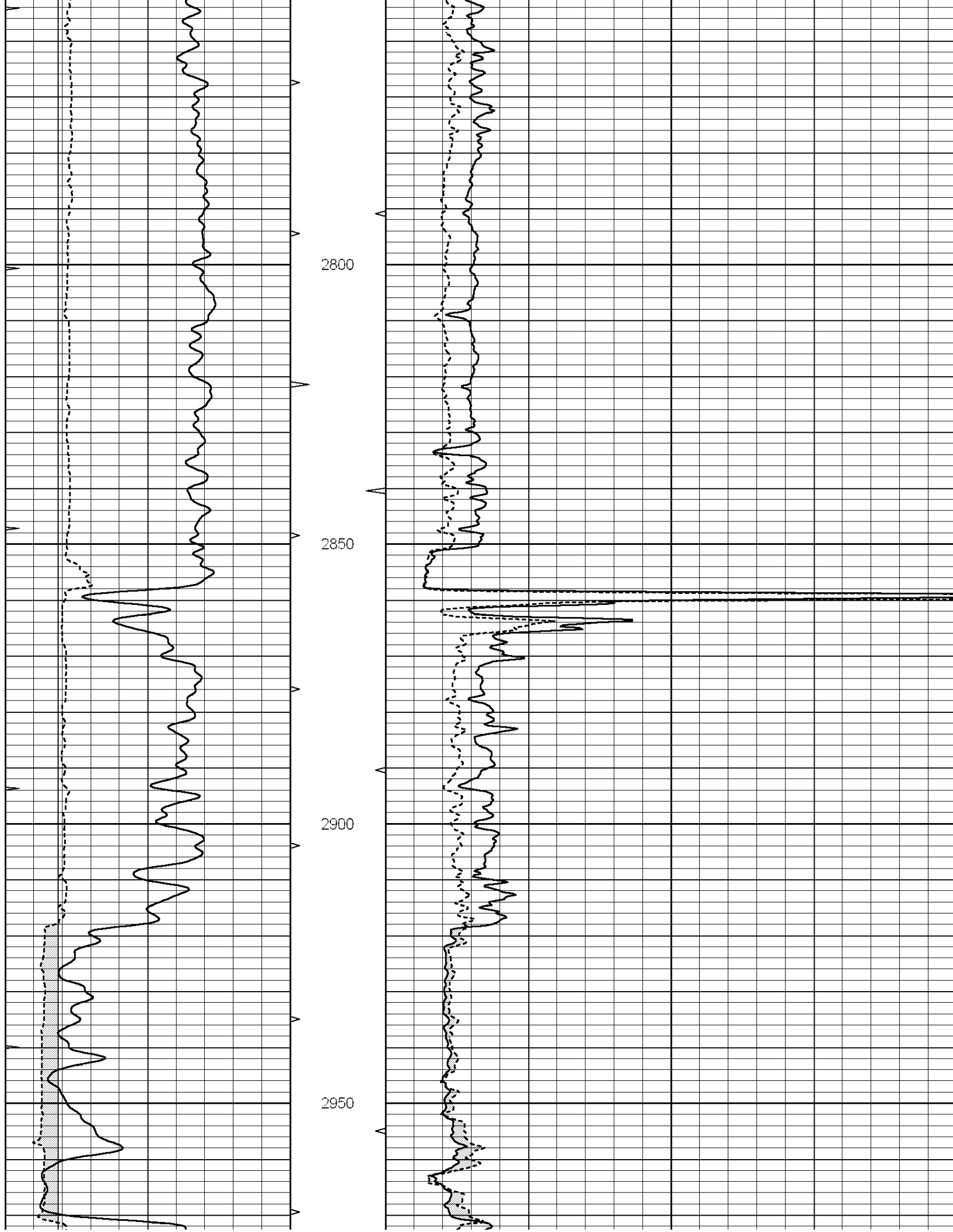
2400

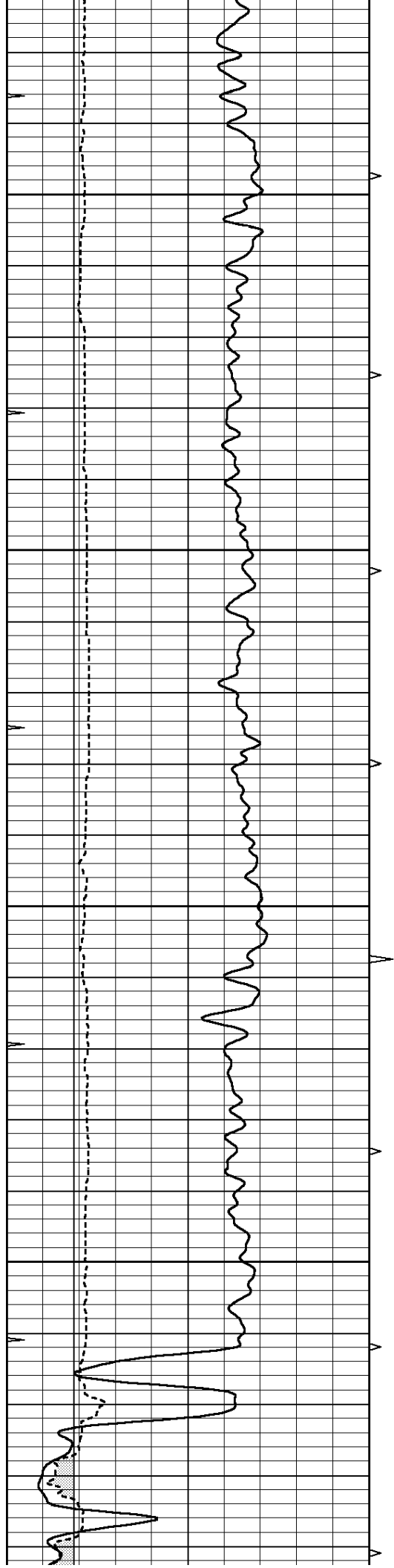
2450

2500







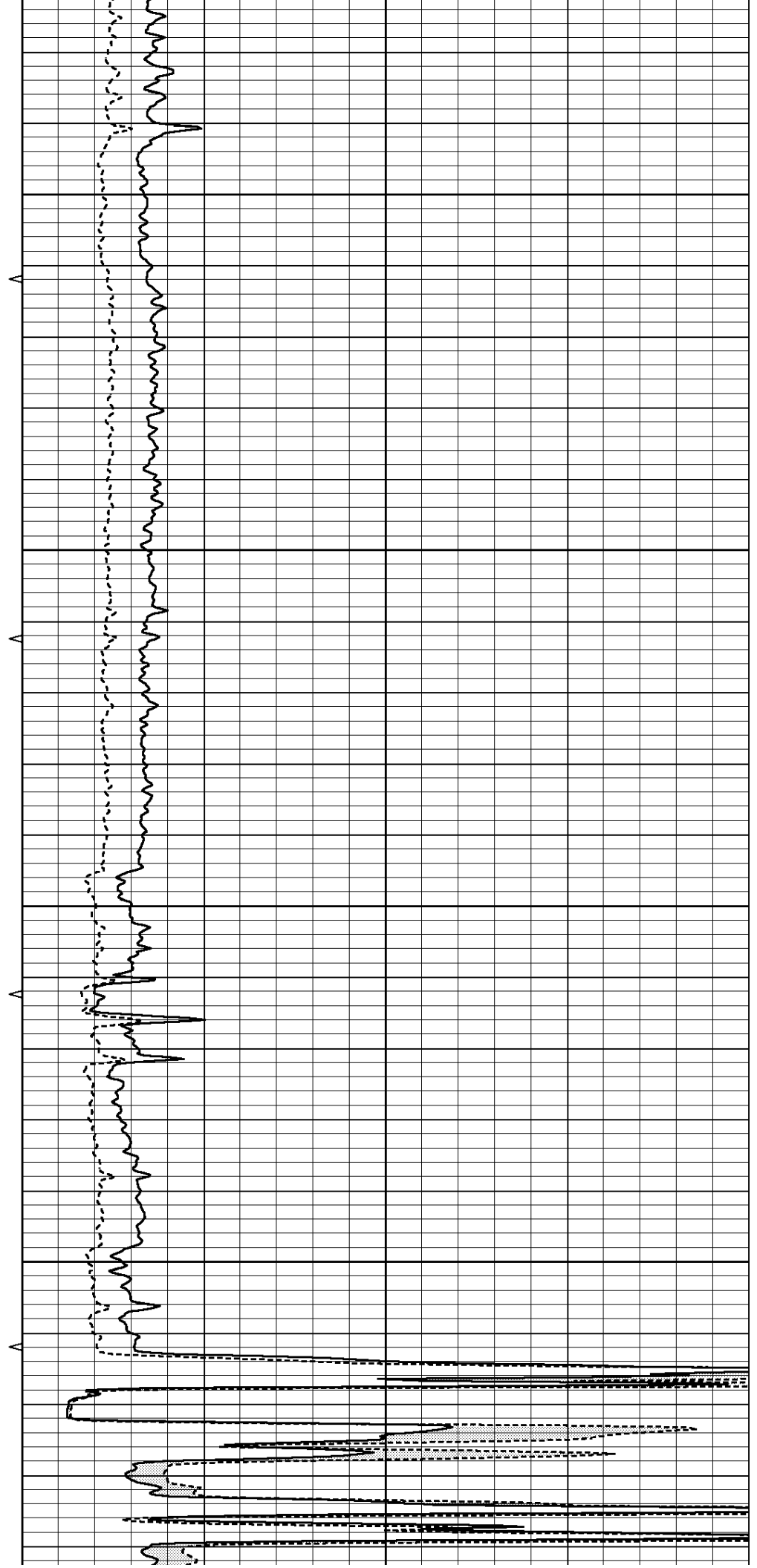


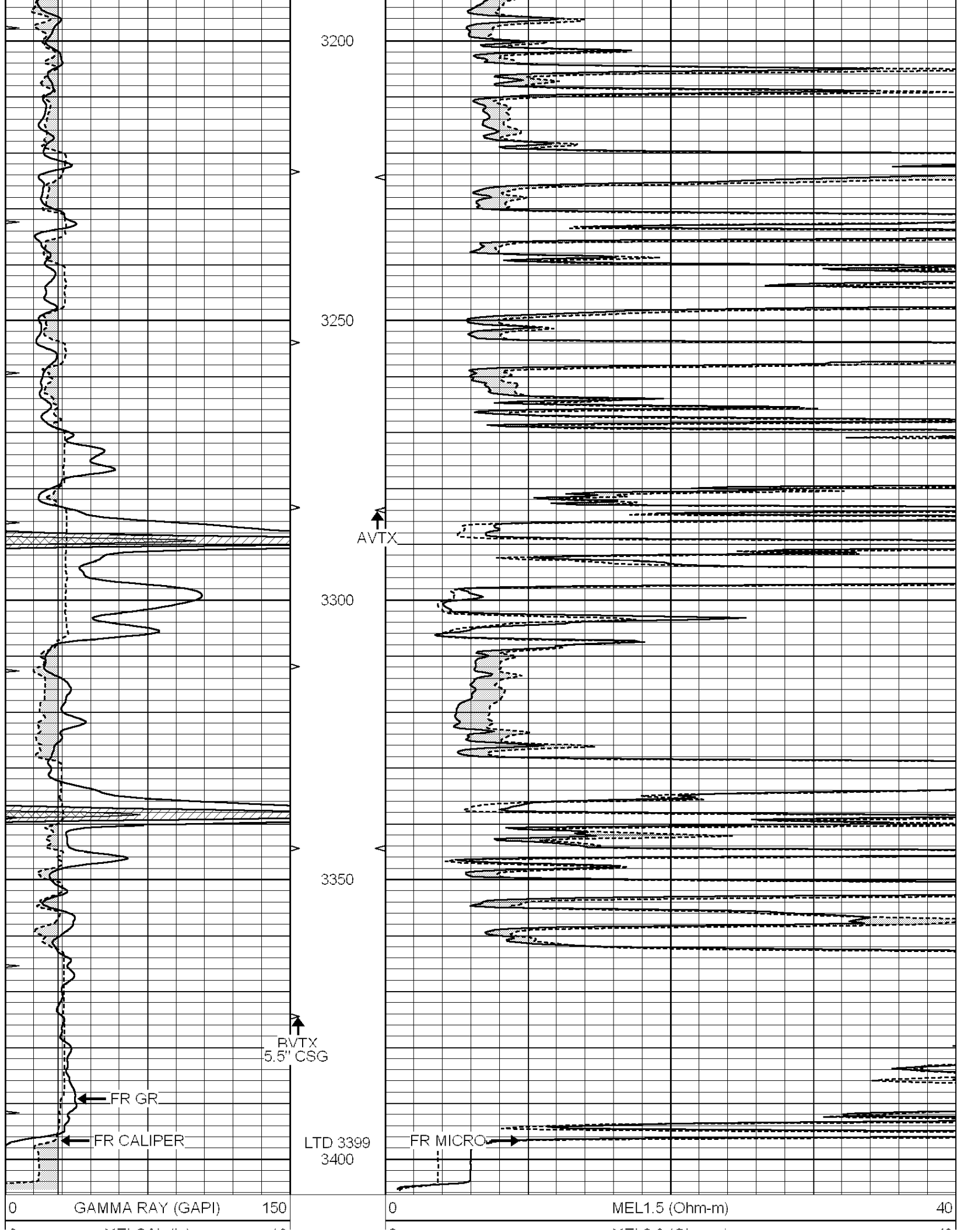
3000

3050

3100

3150







|   |             |    |
|---|-------------|----|
| 6 | MELCAL (in) | 16 |
| 0 | MINMK       | 20 |

|   |                |    |
|---|----------------|----|
| 0 | MEL2.0 (Ohm-m) | 40 |
|---|----------------|----|

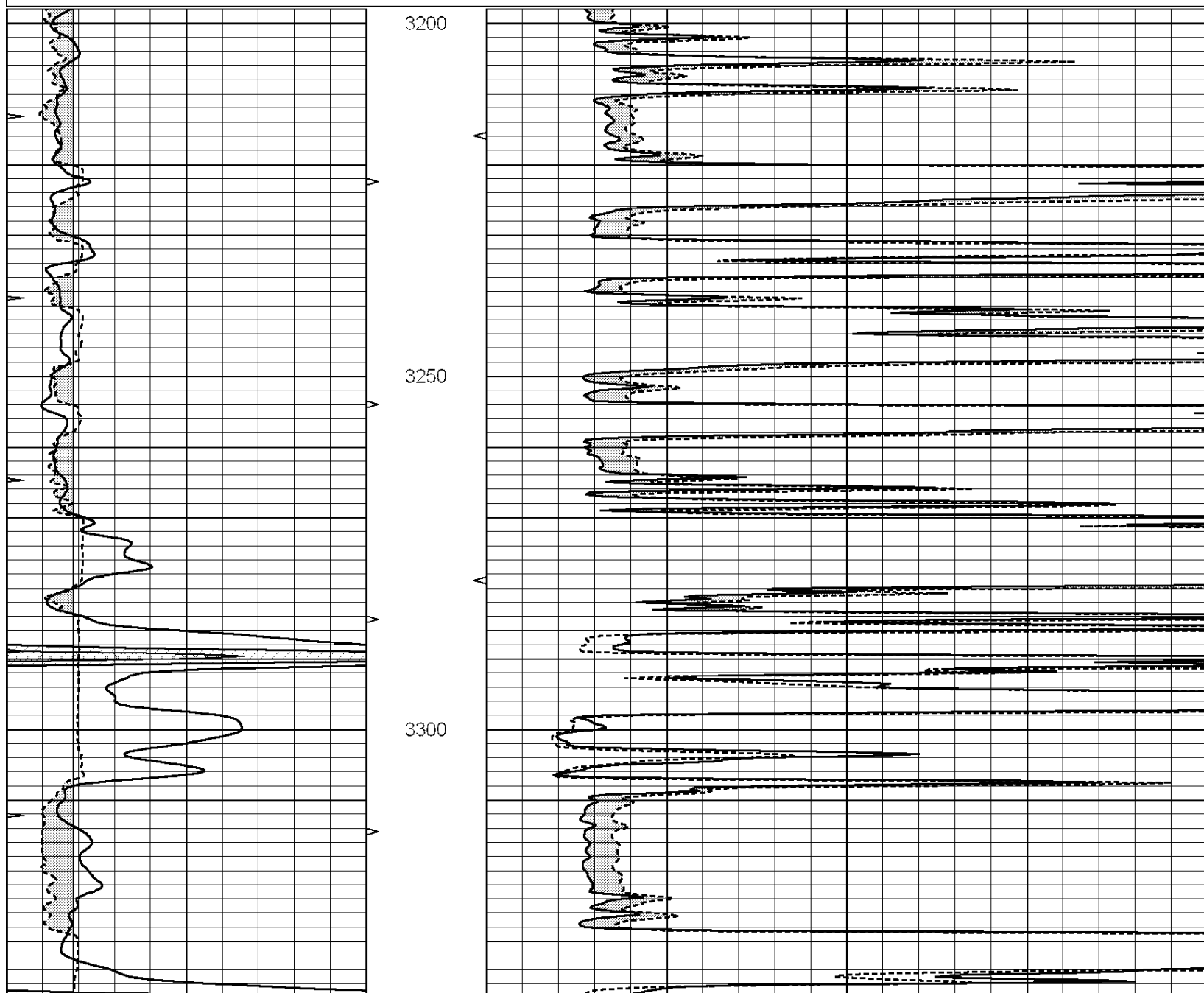


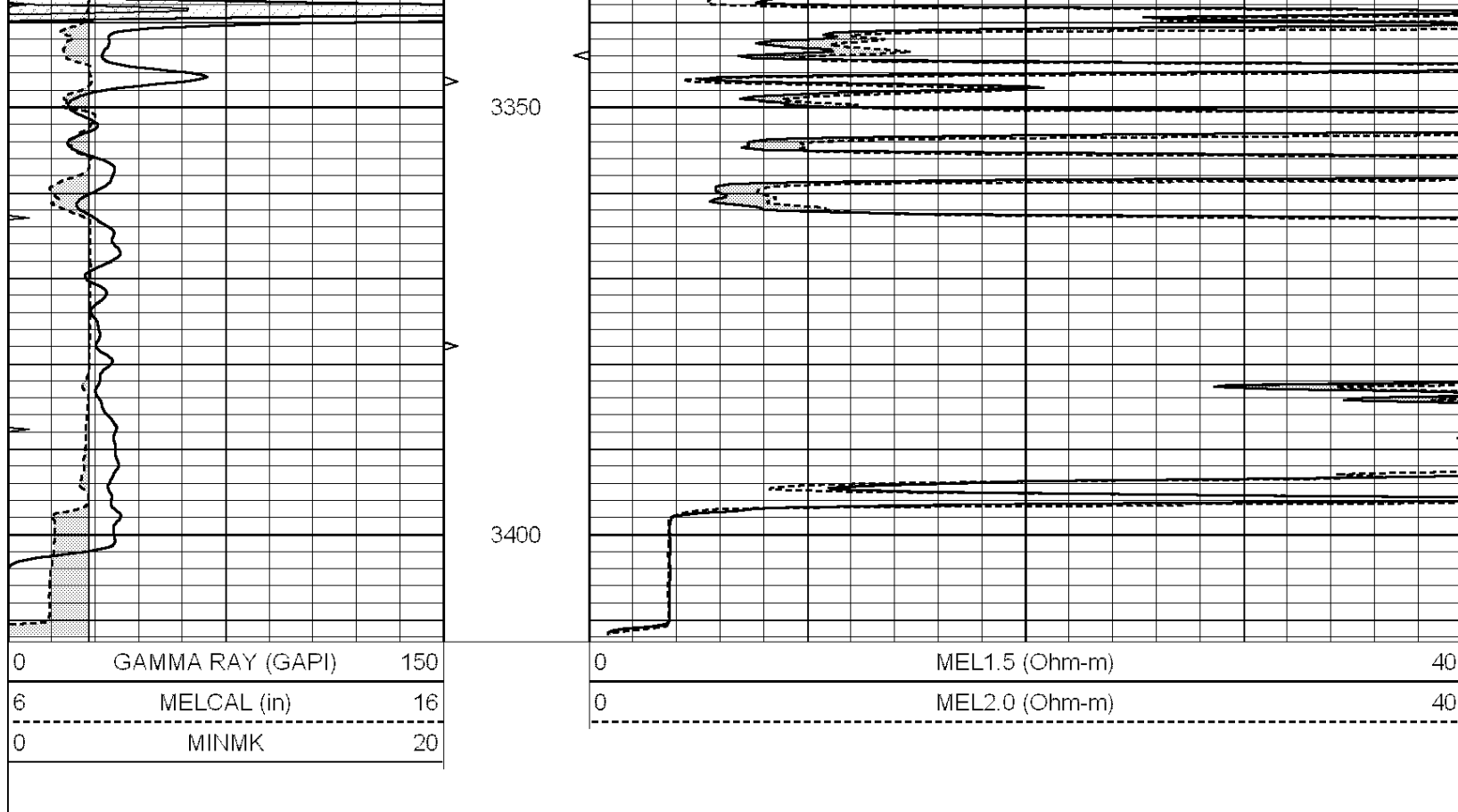
# REPEAT SECTION

Database File: 24440pe.db  
 Dataset Pathname: pass10.1  
 Presentation Format: \_micro  
 Dataset Creation: Mon May 26 16:40:52 2014 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

|   |                  |     |
|---|------------------|-----|
| 0 | GAMMA RAY (GAPI) | 150 |
| 6 | MELCAL (in)      | 16  |
| 0 | MINMK            | 20  |

|   |                |    |
|---|----------------|----|
| 0 | MEL1.5 (Ohm-m) | 40 |
| 0 | MEL2.0 (Ohm-m) | 40 |





### Calibration Report

Database File: 24440pe.db  
 Dataset Pathname: pass11.1  
 Dataset Creation: Mon May 26 17:18:57 2014 by Calc Open-Cased 090629

### MICRO Calibration Report

Serial Number: MICRO5  
 Tool Model: PROBE  
 Performed: Fri Apr 18 23:17:16 2014

Caliper Calibration: Gain=3.536 Offset=-5.600

|            |         |          |
|------------|---------|----------|
| References | Low Cal | High Cal |
| Readings   | 6.200   | 15.000   |
|            | 3.737   | 5.660    |

1.5" Calibration: Gain=20.334 Offset=0.850

|            |         |          |
|------------|---------|----------|
| References | Low Cal | High Cal |
| Readings   | 0.000   | 20.000   |
|            | 0.025   | 1.009    |

2" Calibration: Gain=25.398 Offset=1.000

|            |         |          |
|------------|---------|----------|
| References | Low Cal | High Cal |
| Readings   | 0.000   | 20.000   |
|            | 0.014   | 0.802    |

### Gamma Ray Calibration Report

Serial Number: GR5  
 Tool Model: OPEN  
 Performed: Mon May 26 17:00:47 2014

Calibrator Value: 1.0 GAPI

|                     |        |          |
|---------------------|--------|----------|
| Background Reading: | 0.0    | cps      |
| Calibrator Reading: | 1.0    | cps      |
| Sensitivity:        | 0.3000 | GAPI/cps |