

## DUAL INDUCTION LOG

|                              |                                                                         |                      |      |
|------------------------------|-------------------------------------------------------------------------|----------------------|------|
| Company                      | VINCENT OIL CORPORATION                                                 |                      |      |
| Well                         | KEOUGH #6-34                                                            |                      |      |
| Field                        | MULLBERRY CREEK                                                         |                      |      |
| County                       | FORD                                                                    |                      |      |
| State                        | KANSAS                                                                  |                      |      |
| Company                      | VINCENT OIL CORPORATION                                                 |                      |      |
| Well                         | KEOUGH #6-34                                                            |                      |      |
| Field                        | MULLBERRY CREEK                                                         |                      |      |
| County                       | FORD                                                                    |                      |      |
| State                        | KANSAS                                                                  |                      |      |
| Location:                    | APL # : 15-057-20981-0000<br>2140' FSL & 1458' FWL<br>SW - NW - NE - SW |                      |      |
| Permanent Datum              | GROUND LEVEL                                                            | Elevation            | 2531 |
| Log Measured From            | KELLY BUSHING 13' A.G.L.                                                |                      |      |
| Drilling Measured From       | KELLY BUSHING                                                           |                      |      |
| SEC 34                       | TWP 28S                                                                 | RGE 23W              |      |
| Date                         | 7/7/17                                                                  |                      |      |
| Run Number                   | ONE                                                                     |                      |      |
| Depth Driller                | 5370                                                                    |                      |      |
| Depth Logger                 | 5368                                                                    |                      |      |
| Bottom Logged Interval       | 5366                                                                    |                      |      |
| Top Log Interval             | 00                                                                      |                      |      |
| Casing Driller               | 8 5/8"@648'                                                             |                      |      |
| Casing Logger                | 648                                                                     |                      |      |
| Bit Size                     | 7 7/8"                                                                  |                      |      |
| Type Fluid in Hole           | CHEMICAL MUD                                                            | CHLORIDES 11,500 PPM |      |
| Density / Viscosity          | 9.1/89                                                                  |                      |      |
| pH / Fluid Loss              | 9.9/13.2                                                                |                      |      |
| Source of Sample             | FLOWLINE                                                                |                      |      |
| Rim @ Meas. Temp             | .950@90F                                                                |                      |      |
| Rmf @ Meas. Temp             | .713@90F                                                                |                      |      |
| Rmc @ Meas. Temp             | 1.14@90F                                                                |                      |      |
| Source of Rmf / Rmc          | MEASUREMENT                                                             |                      |      |
| Rim @ BHT                    | .668@128F                                                               |                      |      |
| Time Circulation Stopped     | 3 HOURS                                                                 |                      |      |
| Time Logger on Bottom        | 8:00 P.M.                                                               |                      |      |
| Maximum Recorded Temperature | 128F                                                                    |                      |      |
| Equipment Number             | 922339                                                                  |                      |      |
| Location                     | HAYS, KANSAS                                                            |                      |      |
| Recorded By                  | JEFF LUEBBERS                                                           |                      |      |
| Witnessed By                 | TOM DUDGEON                                                             |                      |      |

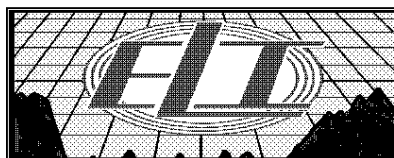
<<< Fold Here >>>

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

KINGSDOWN, KS. & HWY 54, 2N. ON "RD. 125" TO "WILBURN RD.", 4W., N. INTO ACROSS FROM HOUSE



# MAIN SECTION

Database File: 1584pe.db  
Dataset Pathname: pass3.11  
Presentation Format: dil2  
Dataset Creation: Fri Jul 07 21:45:53 2017  
Charted by: Depth in Feet scaled 1:600

|      |                  |     |
|------|------------------|-----|
| 0    | Gamma Ray (GAPI) | 150 |
| -100 | SP (mV)          | 100 |
| 0    | RWA (Ohm-m)      | 1   |

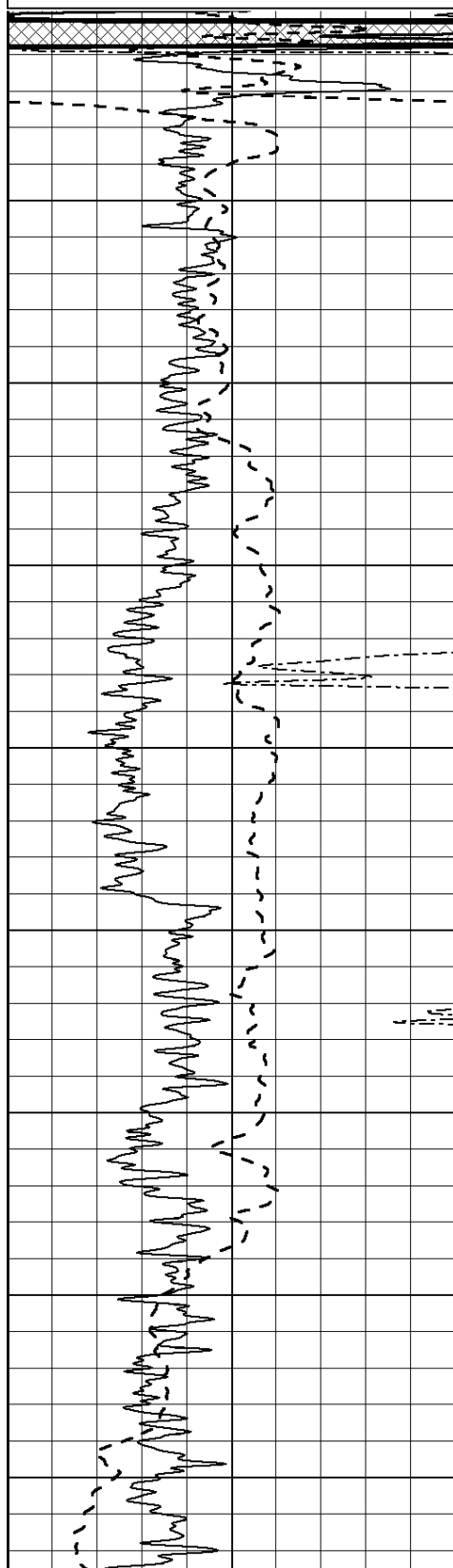
|   |              |    |
|---|--------------|----|
| 0 | RLL3 (Ohm-m) | 50 |
|---|--------------|----|

|   |              |    |
|---|--------------|----|
| 0 | RILD (Ohm-m) | 50 |
|---|--------------|----|

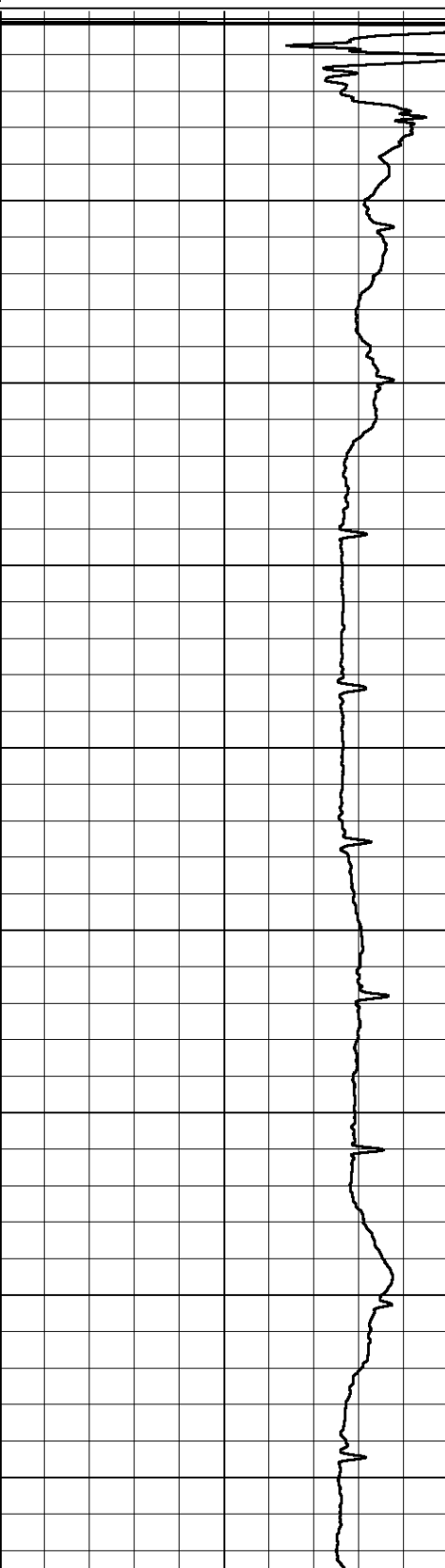
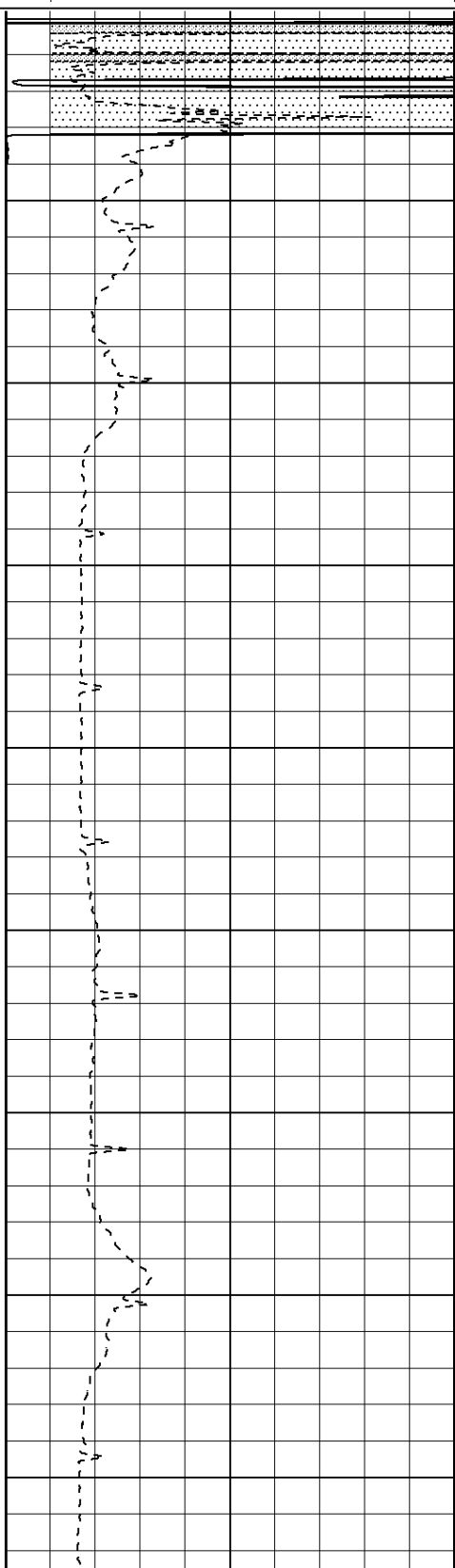
|      |               |   |
|------|---------------|---|
| 1000 | CILD (mmho/m) | 0 |
|------|---------------|---|

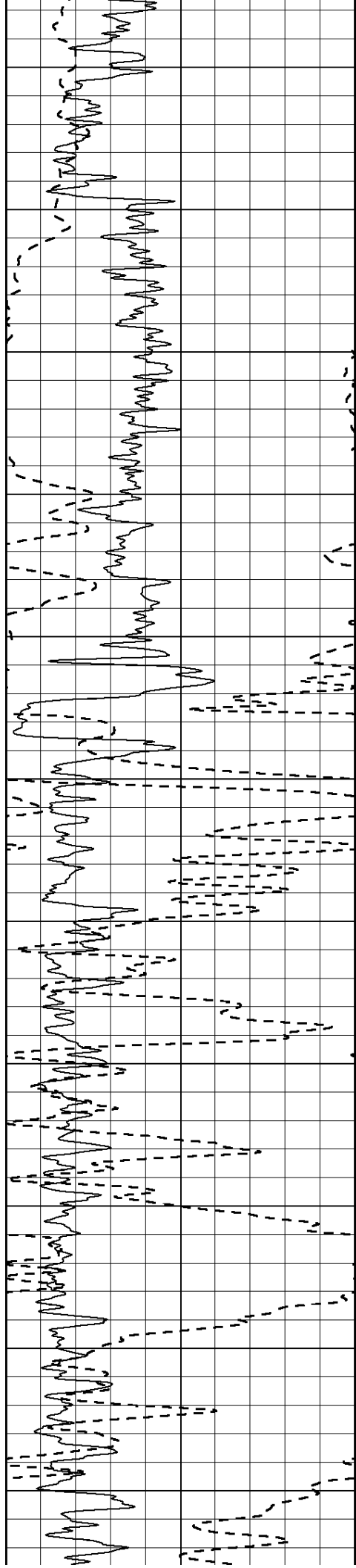
|    |                  |     |
|----|------------------|-----|
| 50 | RILD X10 (Ohm-m) | 500 |
|----|------------------|-----|

|    |                  |     |
|----|------------------|-----|
| 50 | RLL3 X10 (Ohm-m) | 500 |
|----|------------------|-----|



0  
50  
100  
150  
200  
250  
300  
350  
400





450

500

550

600

650

700

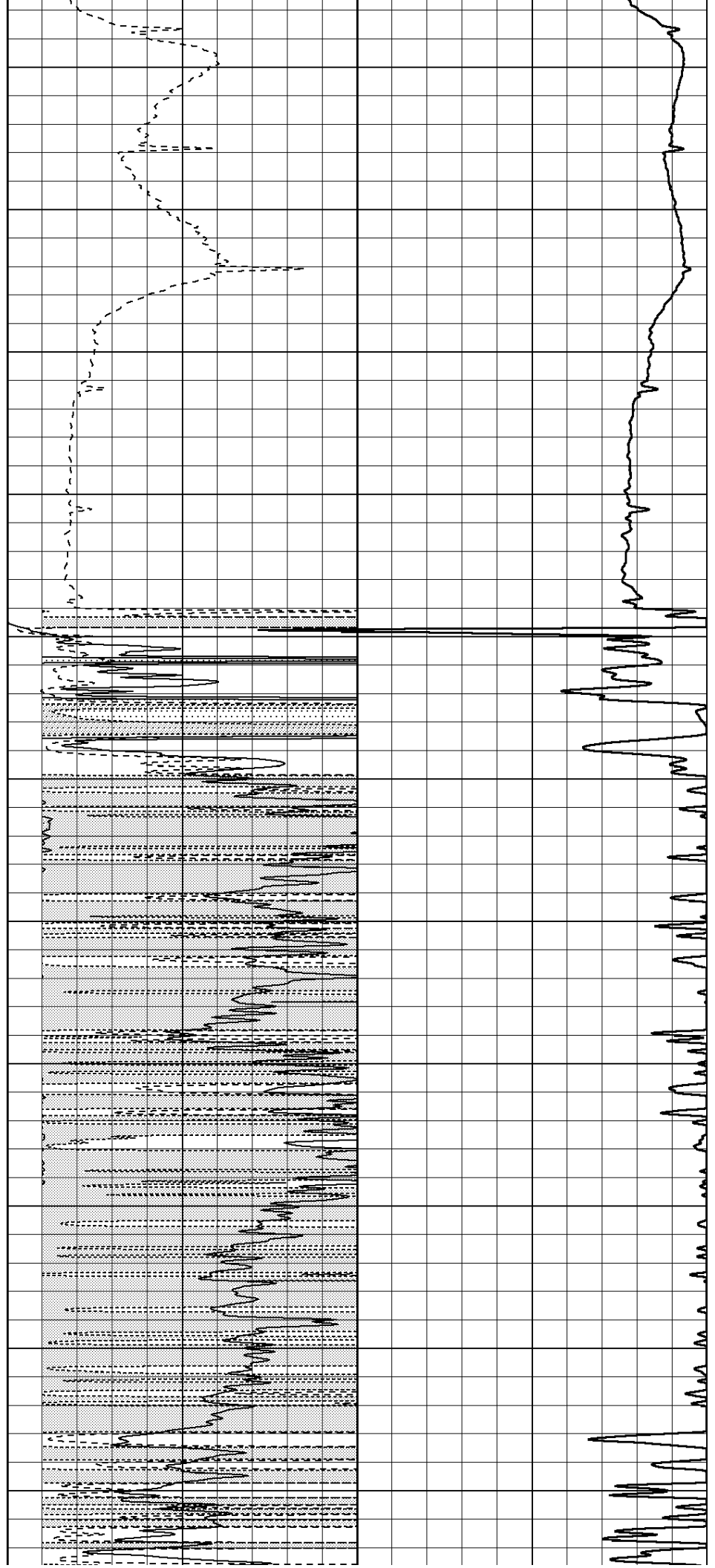
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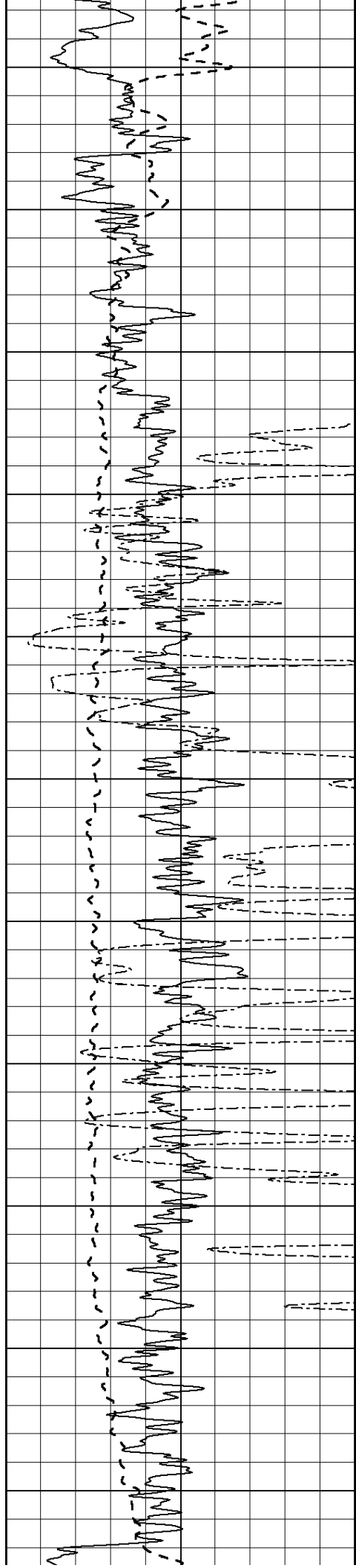
800

850

900

950





1000

1050

1100

1150

1200

1250

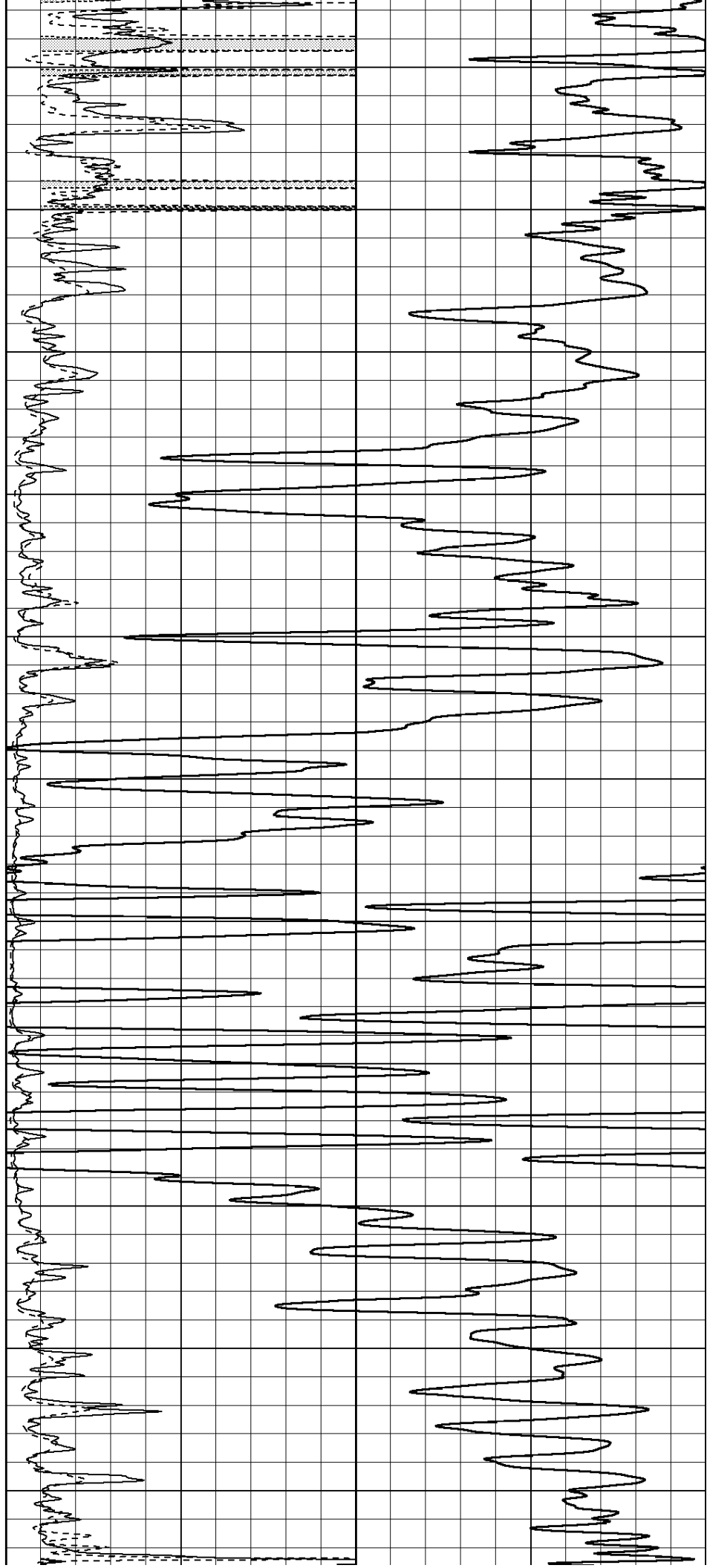
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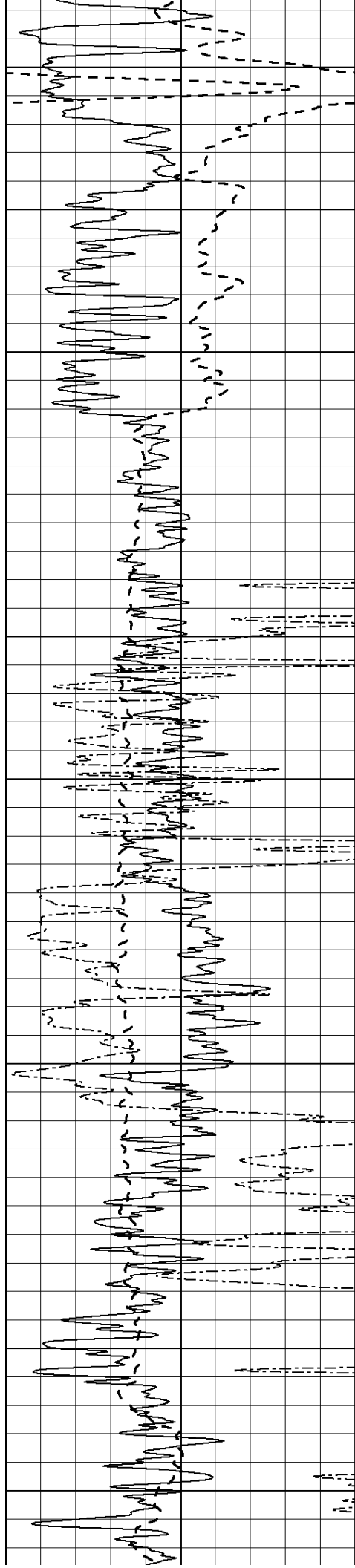
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1400

1450

1500





1550

1600

1650

1700

1750

1800

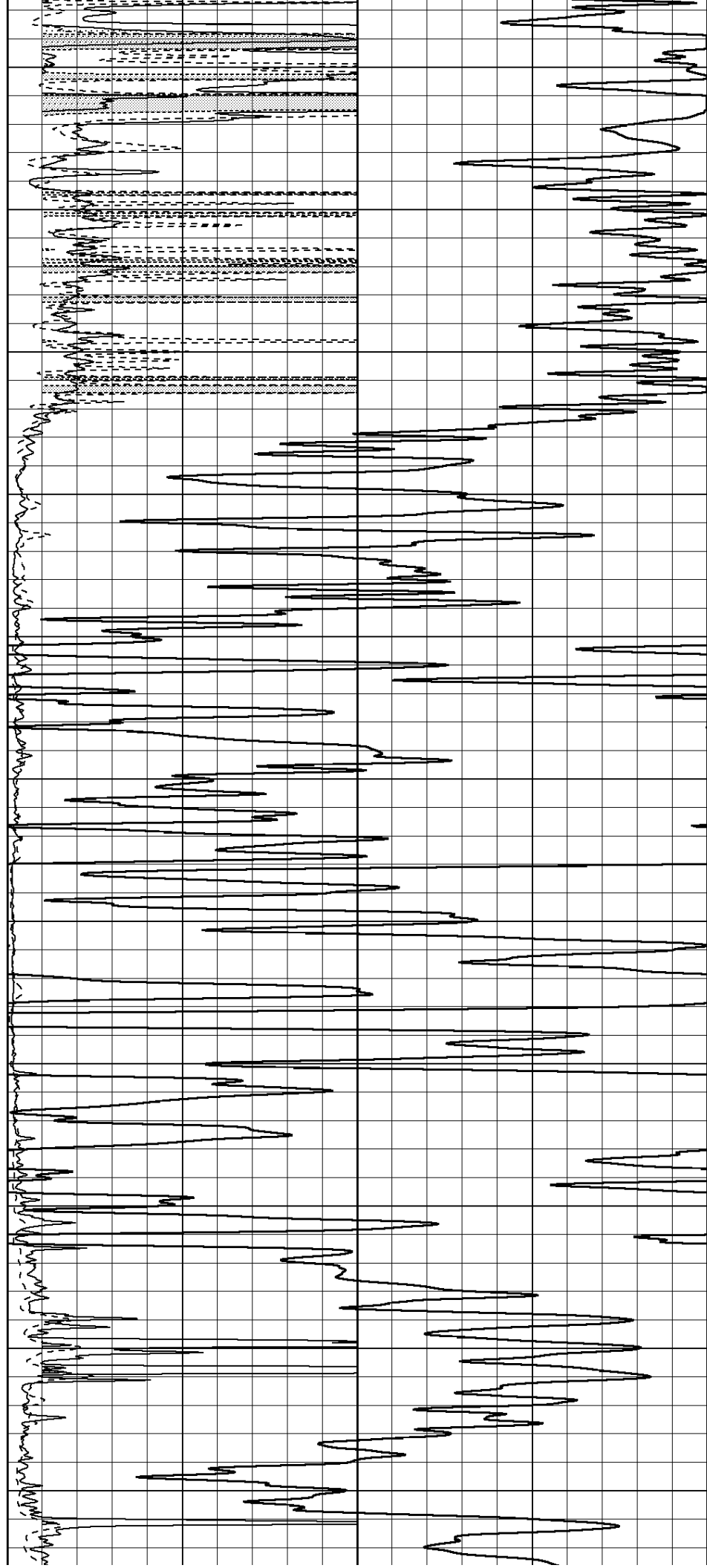
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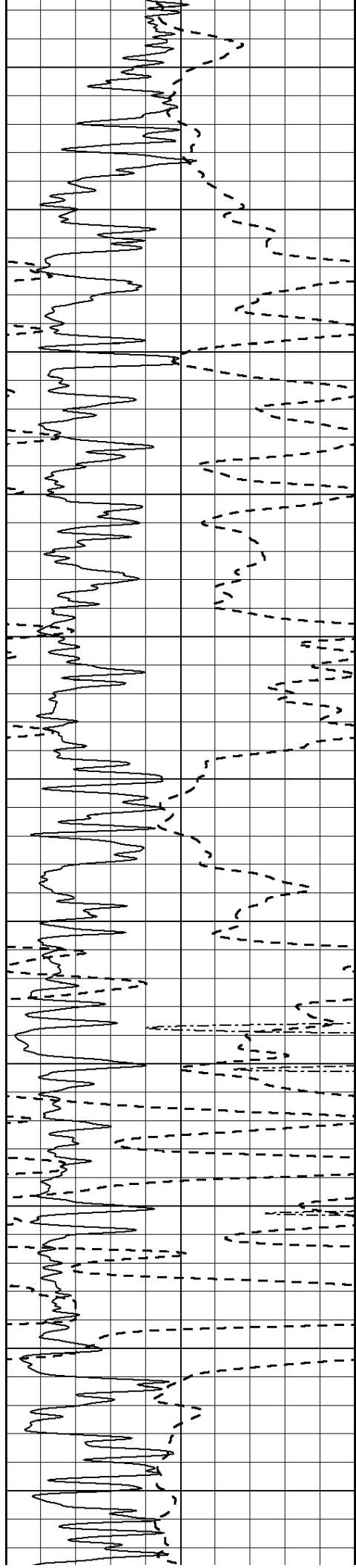
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1950

2000

2050





2100

2150

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2350

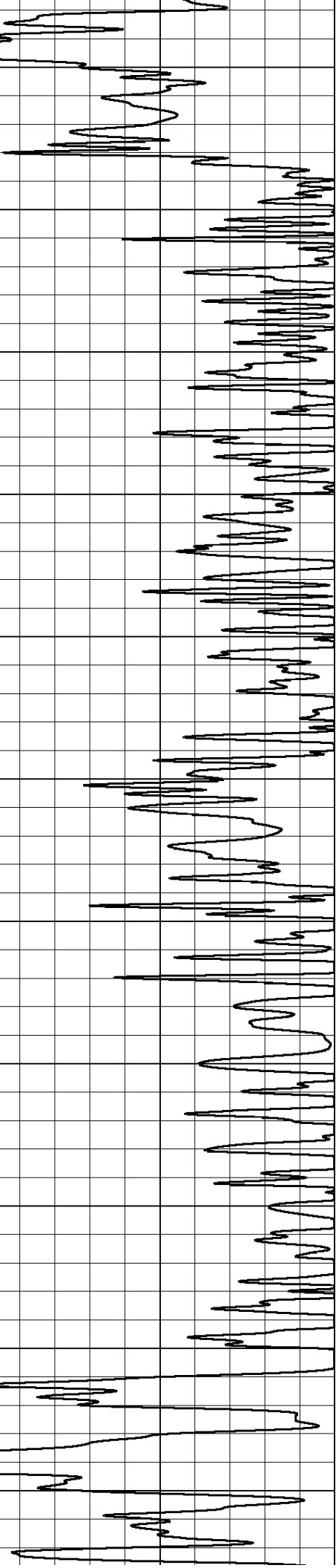
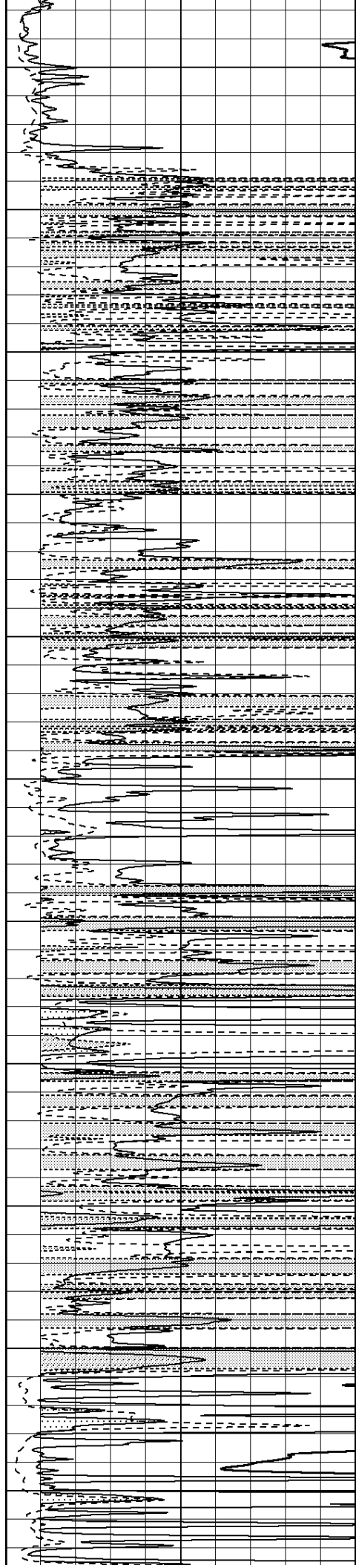
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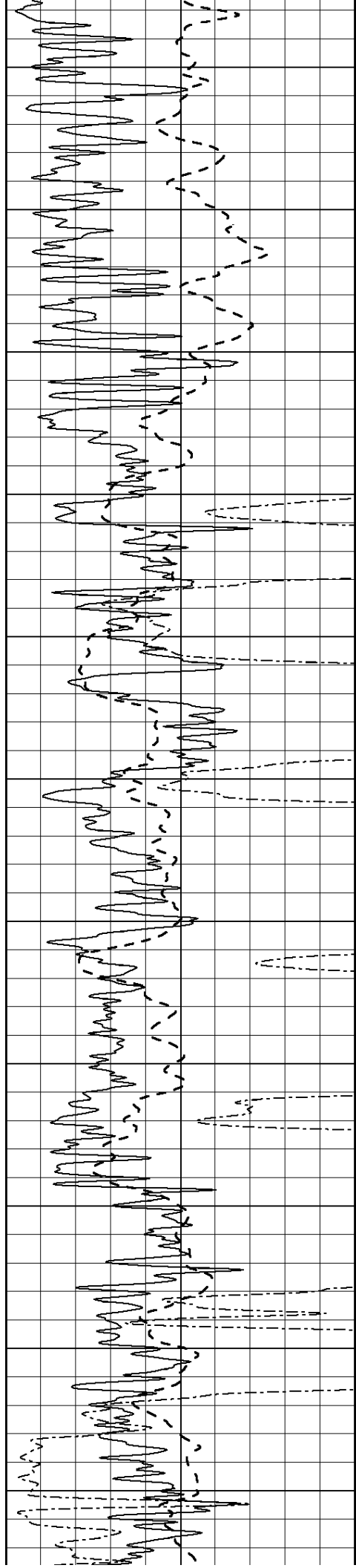
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2500

2550

2600





2650

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2800

2850

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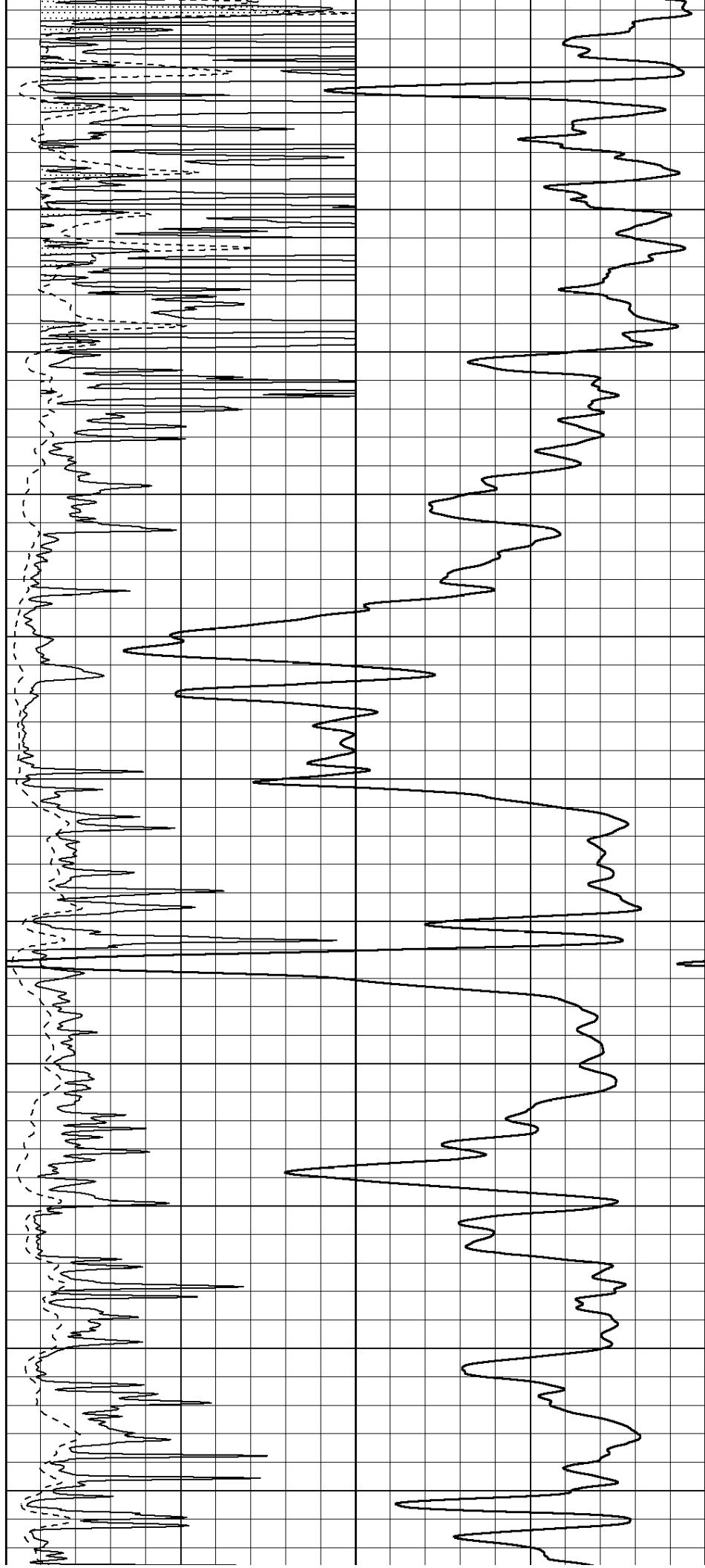
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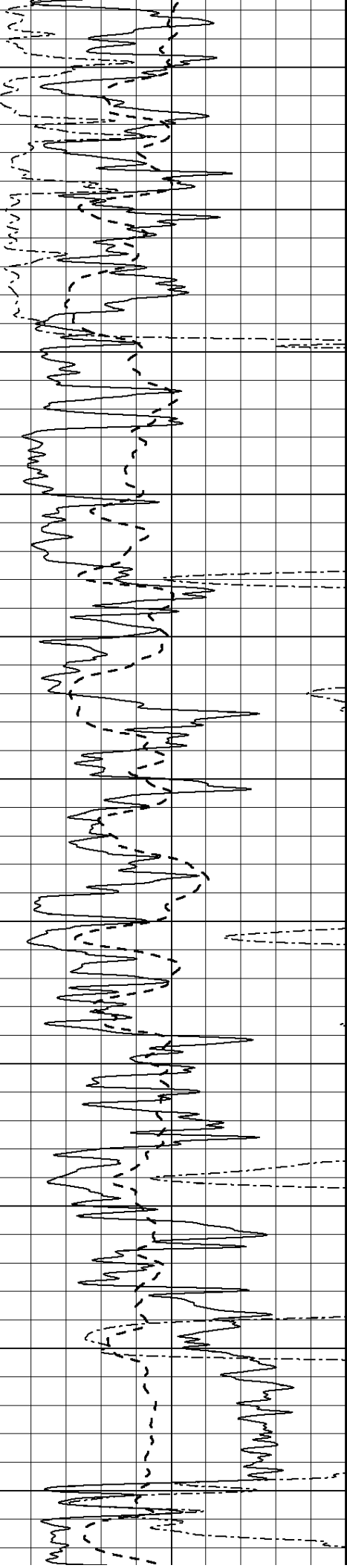
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3050

3100

3150





3200

3250

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3450

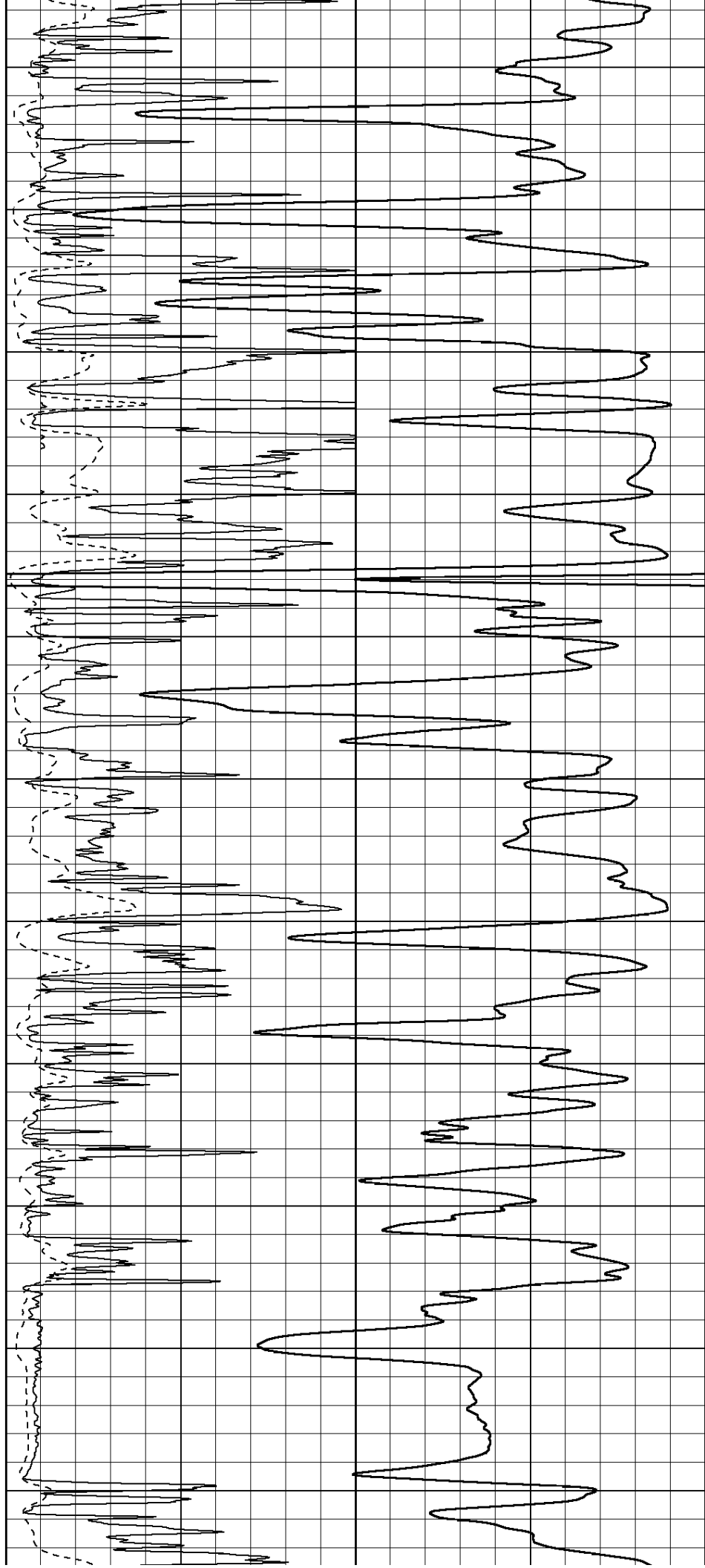
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3550

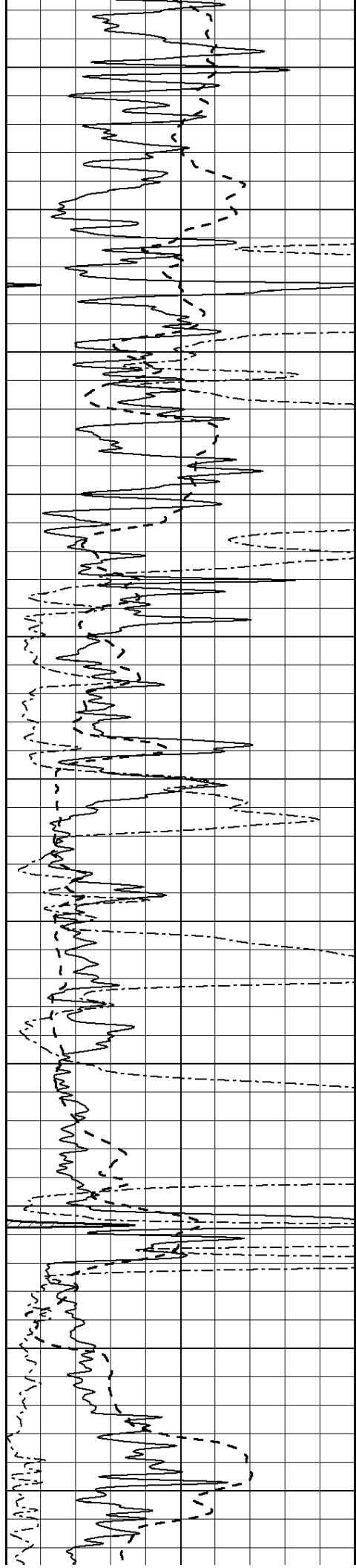
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3650

3700







3750

3800

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4000

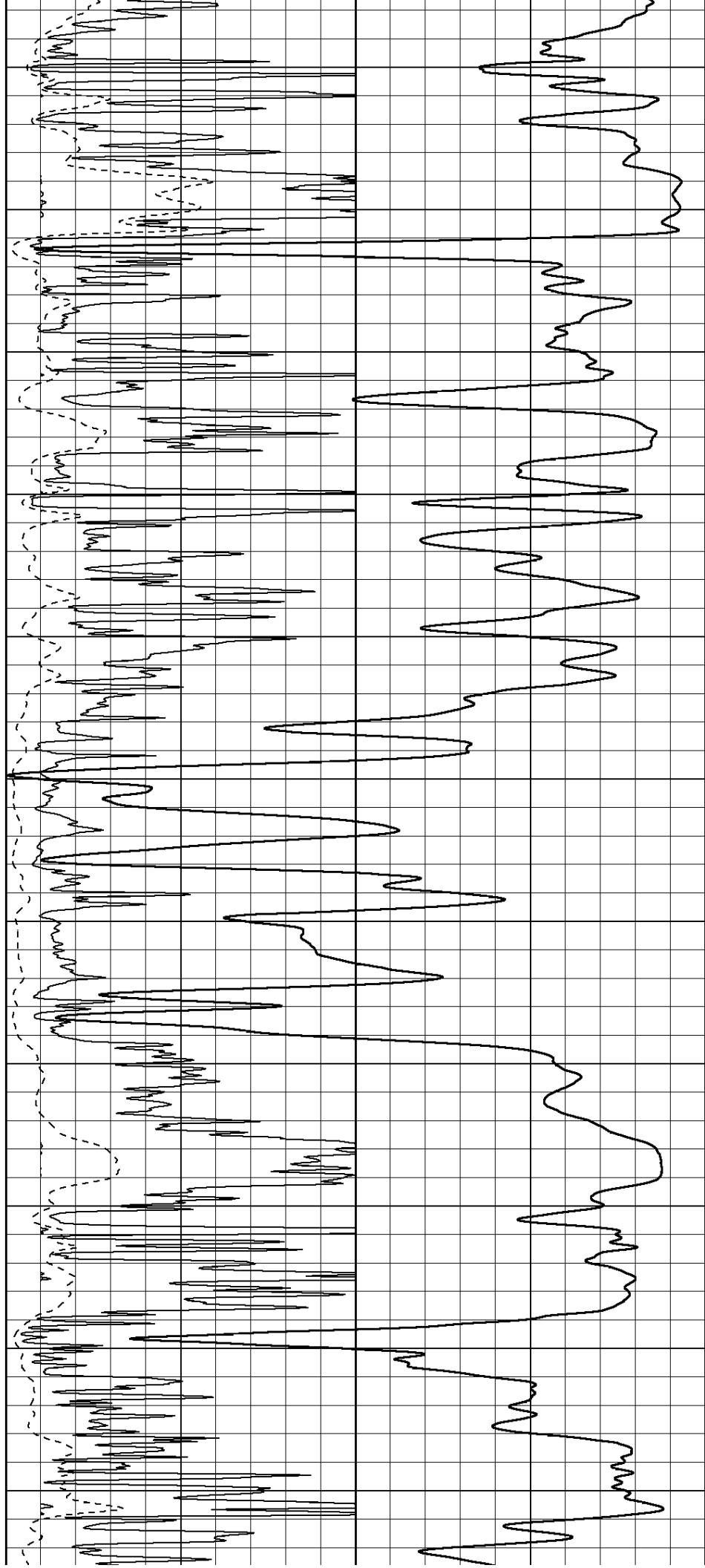
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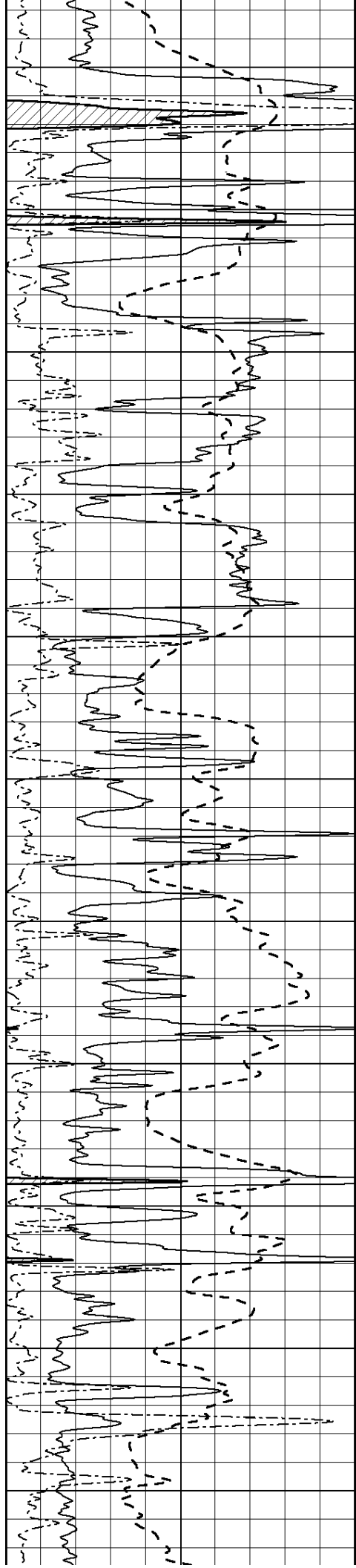
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4150

4200

4250





4300

4350

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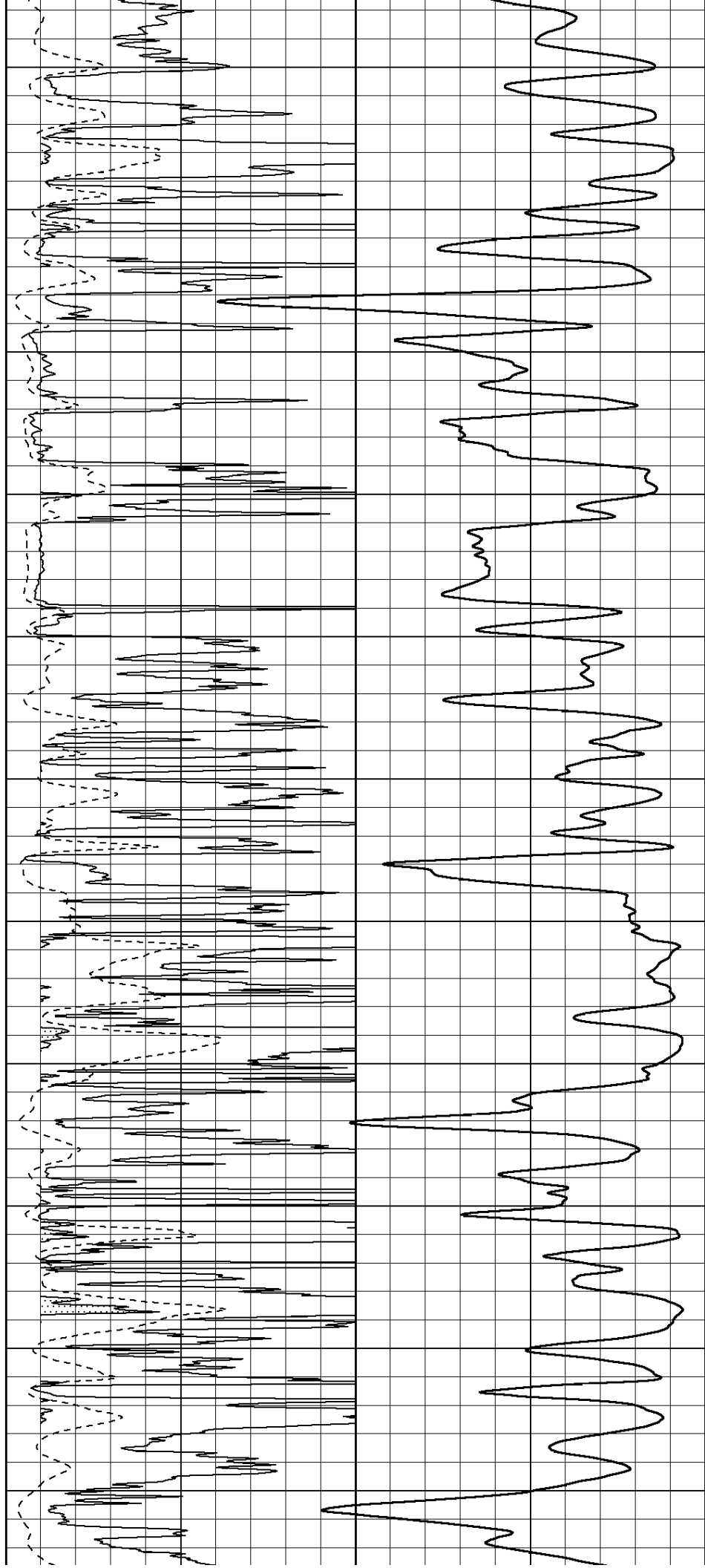
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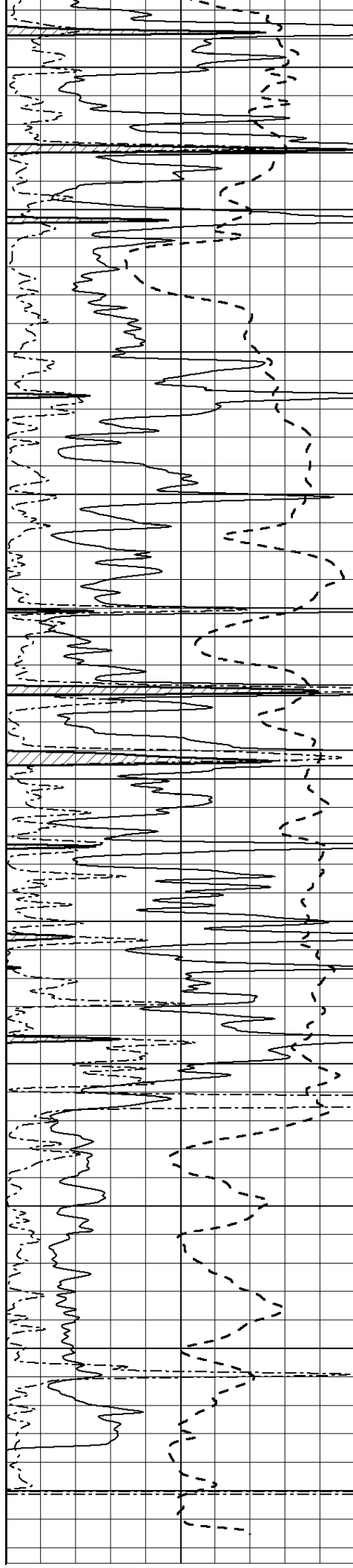
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4700

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5000

5050

5100

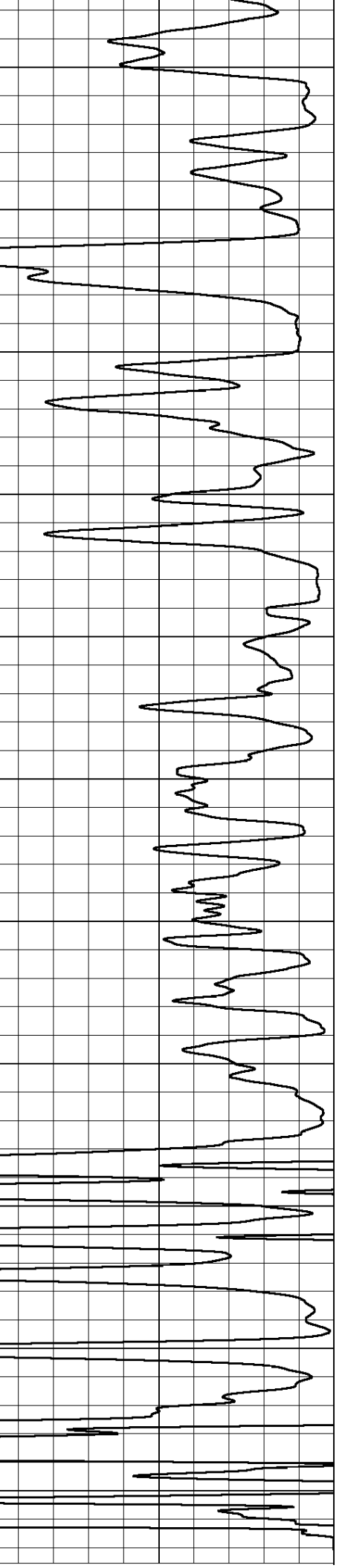
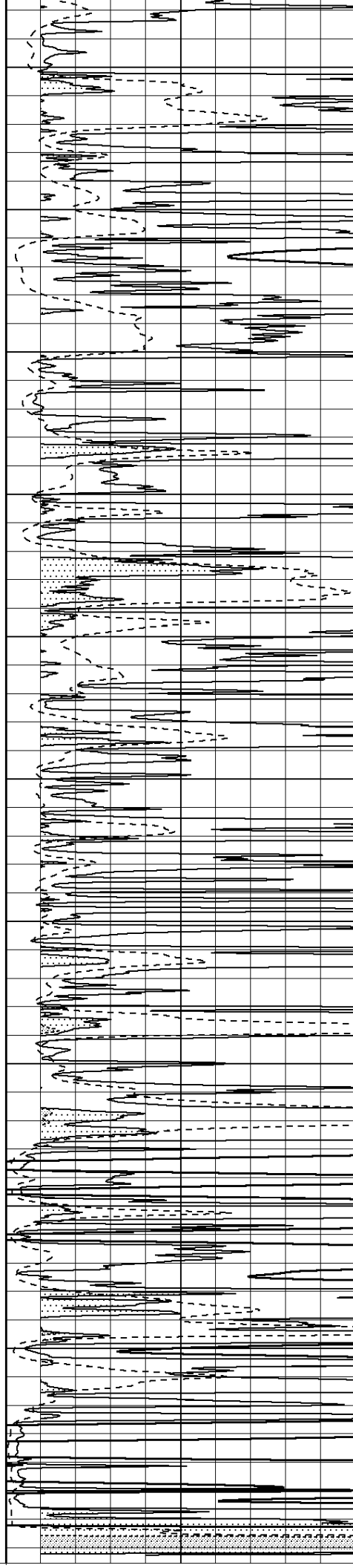
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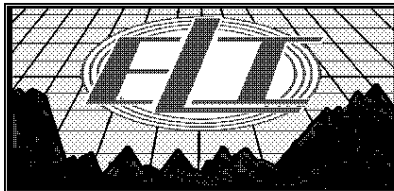
5300

5350



|       |                  |     |
|-------|------------------|-----|
| 0     | Gamma Ray (GAPI) | 150 |
| -100  | SP (mV)          | 100 |
| <hr/> |                  |     |
| 0     | RWA (Ohm-m)      | 1   |

|       |                  |     |
|-------|------------------|-----|
| 0     | RLL3 (Ohm-m)     | 50  |
| 0     | RILD (Ohm-m)     | 50  |
| <hr/> |                  |     |
| 1000  | CILD (mmho/m)    | 0   |
| <hr/> |                  |     |
| 50    | RILD X10 (Ohm-m) | 500 |
| 50    | RLL3 X10 (Ohm-m) | 500 |

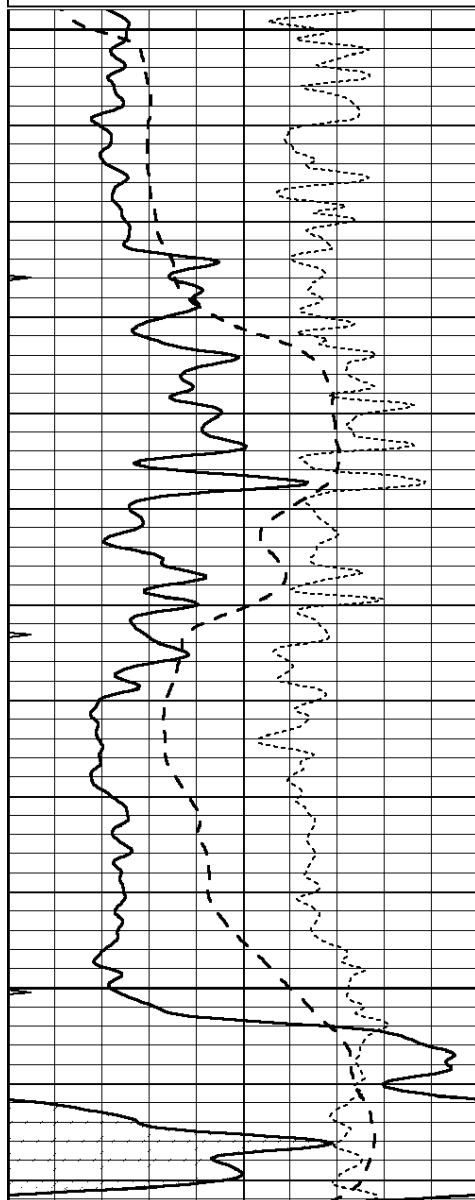


# MAIN SECTION

Database File: 1584pe.db  
 Dataset Pathname: pass3.11  
 Presentation Format: \_dil  
 Dataset Creation: Fri Jul 07 21:45:53 2017  
 Charted by: Depth in Feet scaled 1:240

|       |                  |     |
|-------|------------------|-----|
| 0     | GAMMA RAY (GAPI) | 150 |
| -100  | SP (mV)          | 100 |
| -250  | Rxo/Rt           | 50  |
| <hr/> |                  |     |
| 0     | MINMK            | 20  |

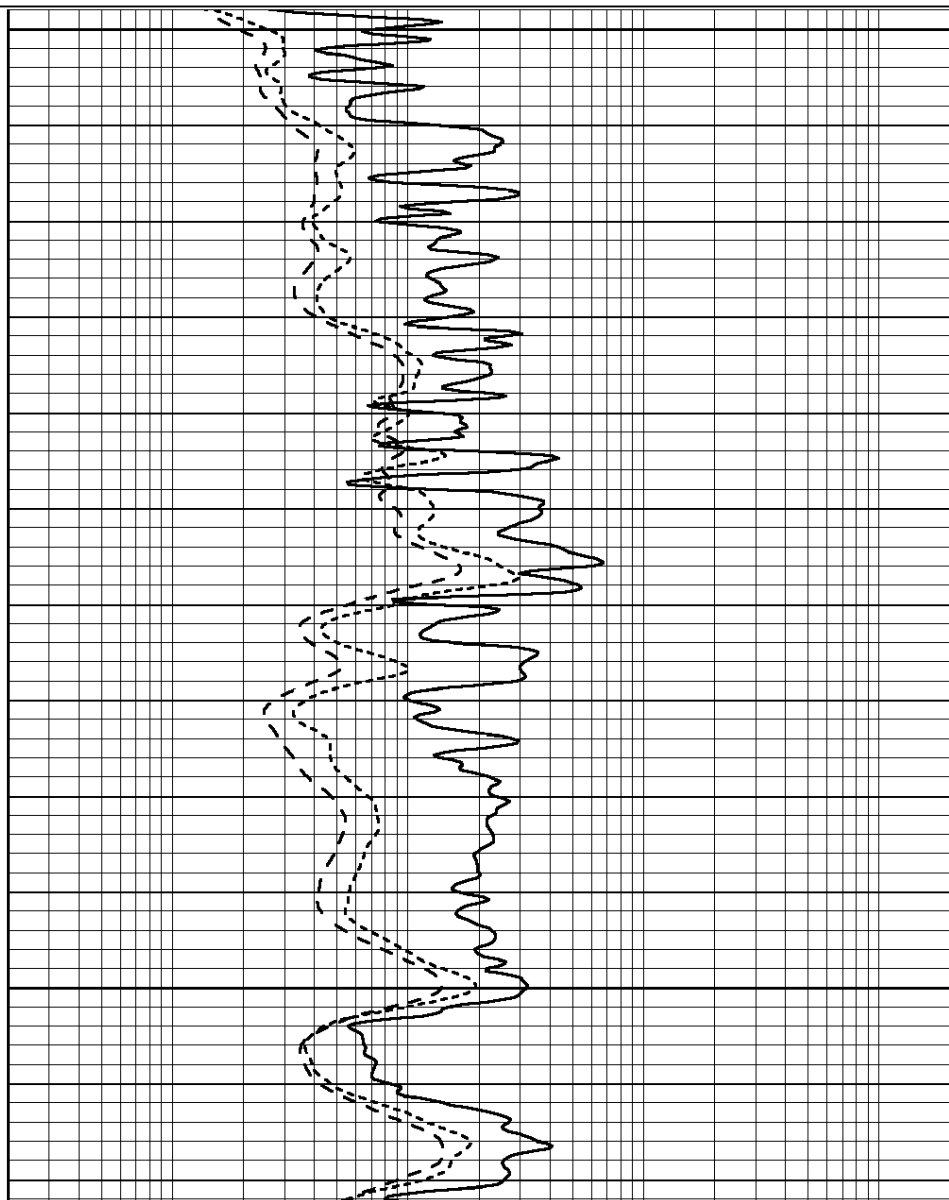
|       |                          |      |
|-------|--------------------------|------|
| 0.2   | SHALLOW GUARD (Ohm-m)    | 2000 |
| 0.2   | DEEP INDUCTION (Ohm-m)   | 2000 |
| <hr/> |                          |      |
| 0.2   | MEDIUM INDUCTION (Ohm-m) | 2000 |

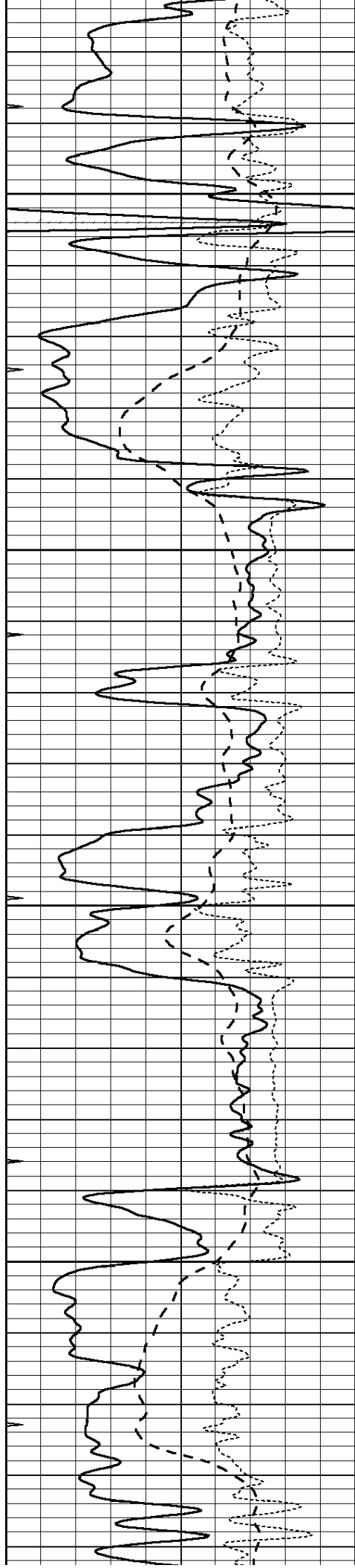


4200

4250

4300



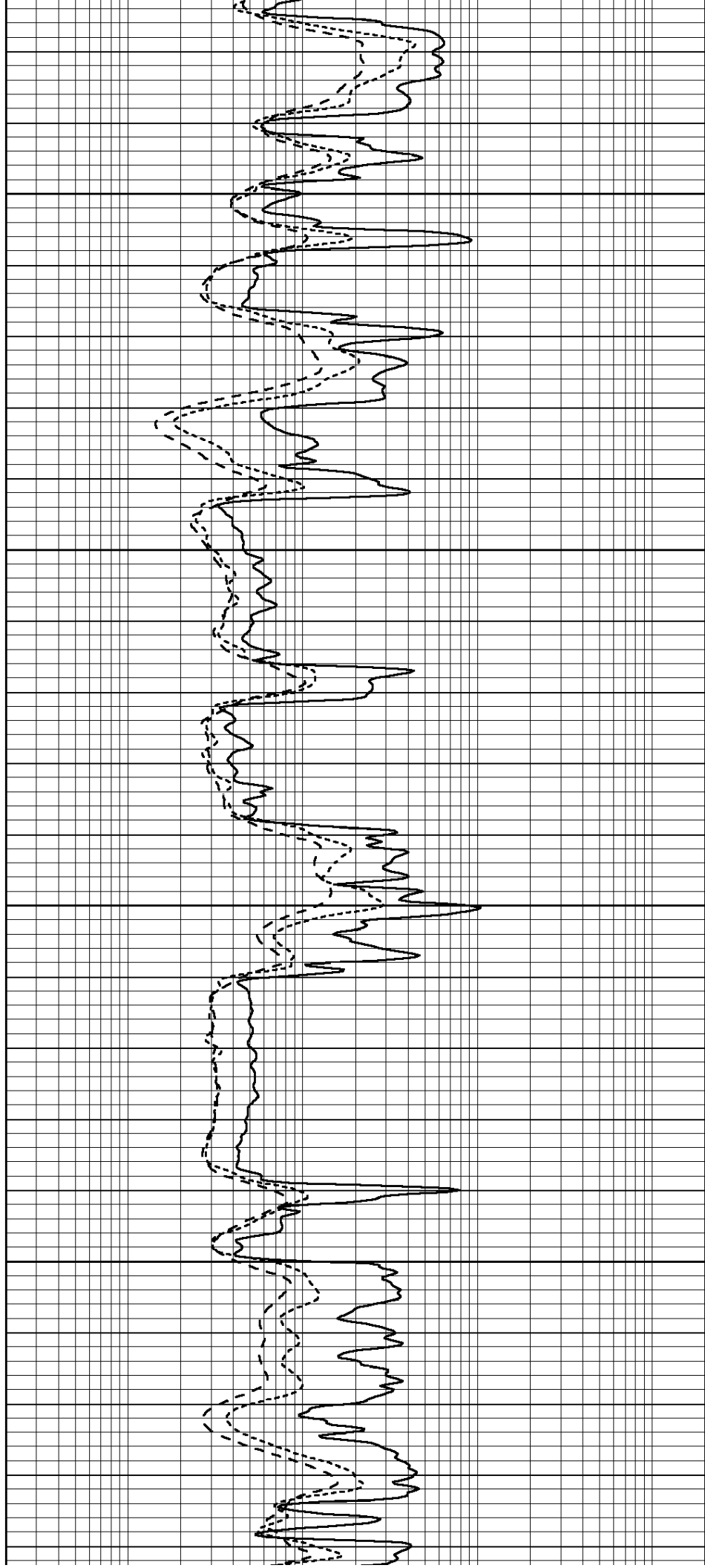


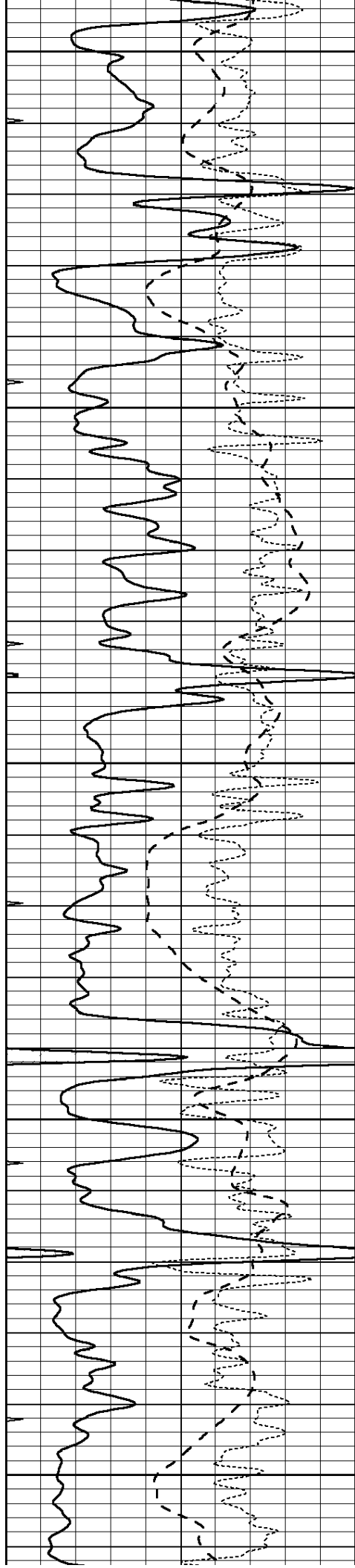
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4400

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4500





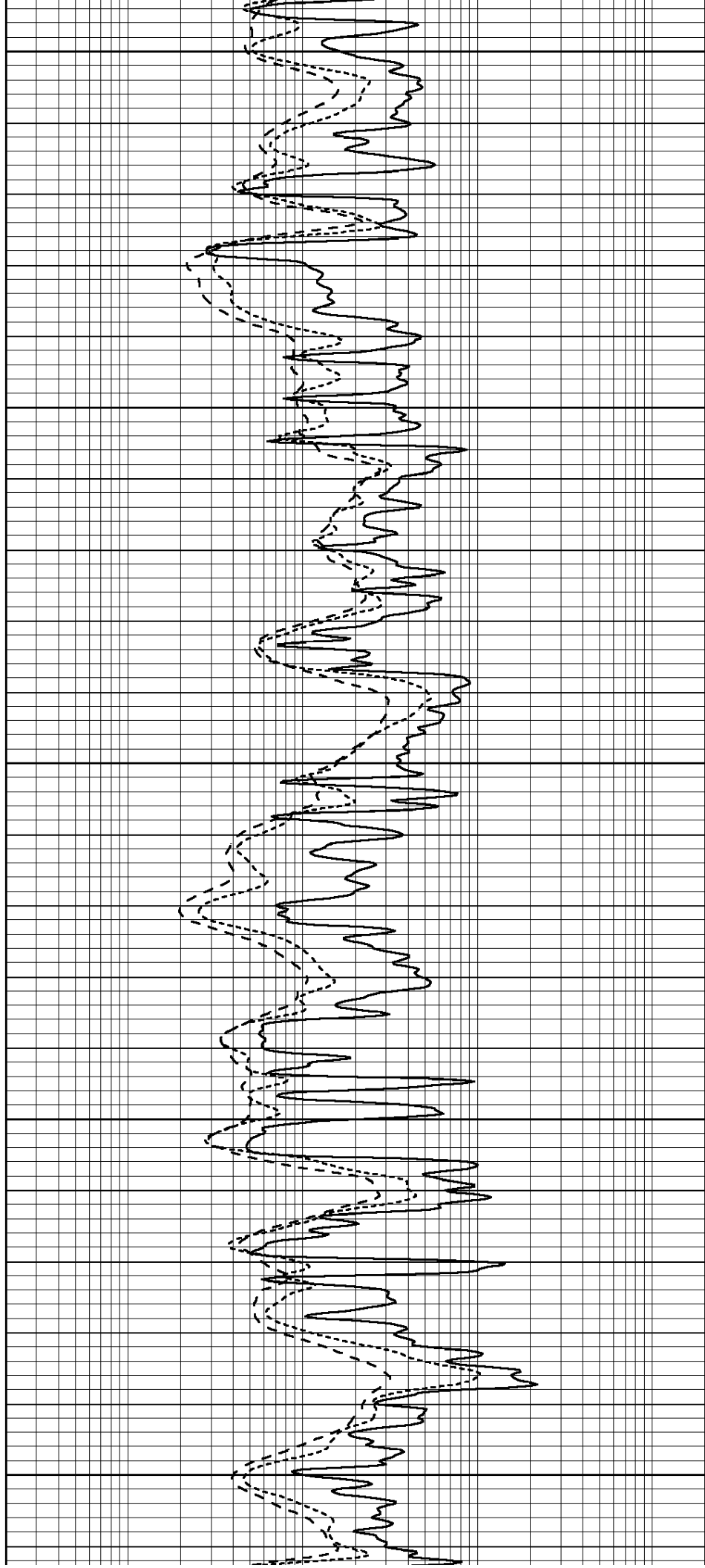
4550

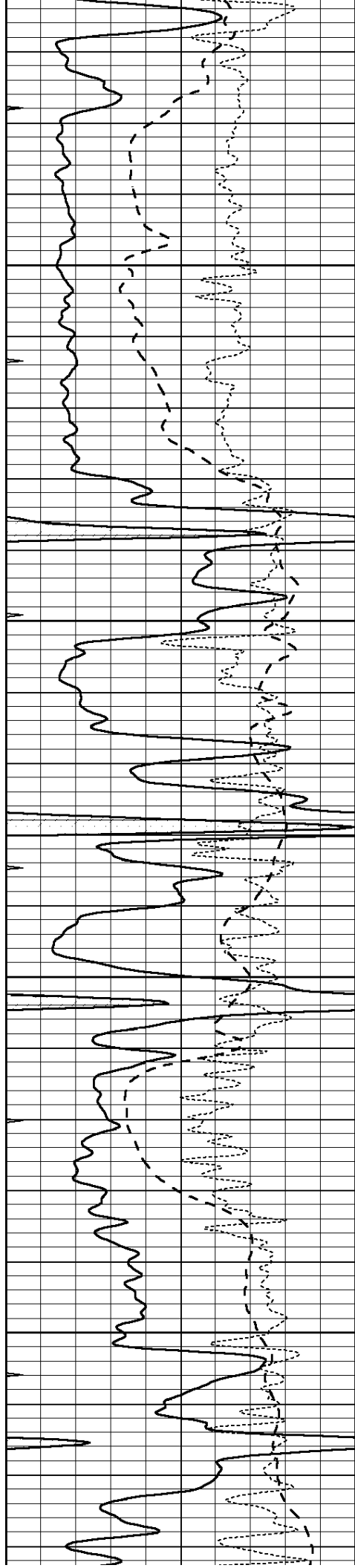
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4650

4700

4750



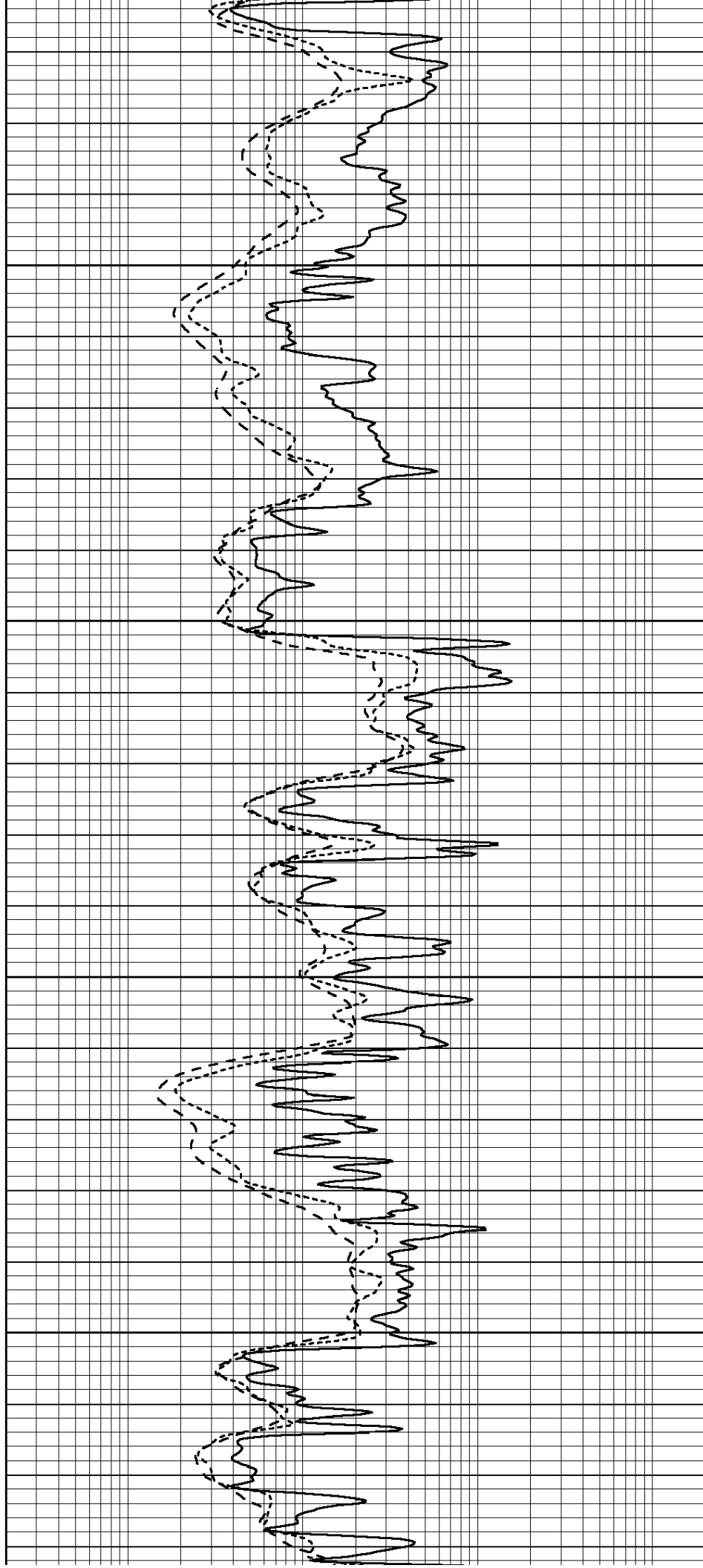


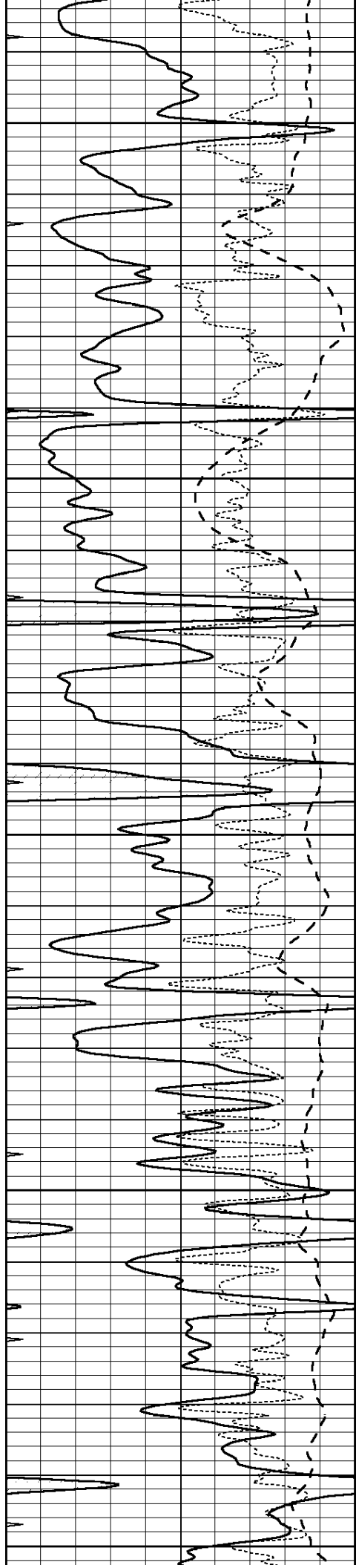
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4900

4950





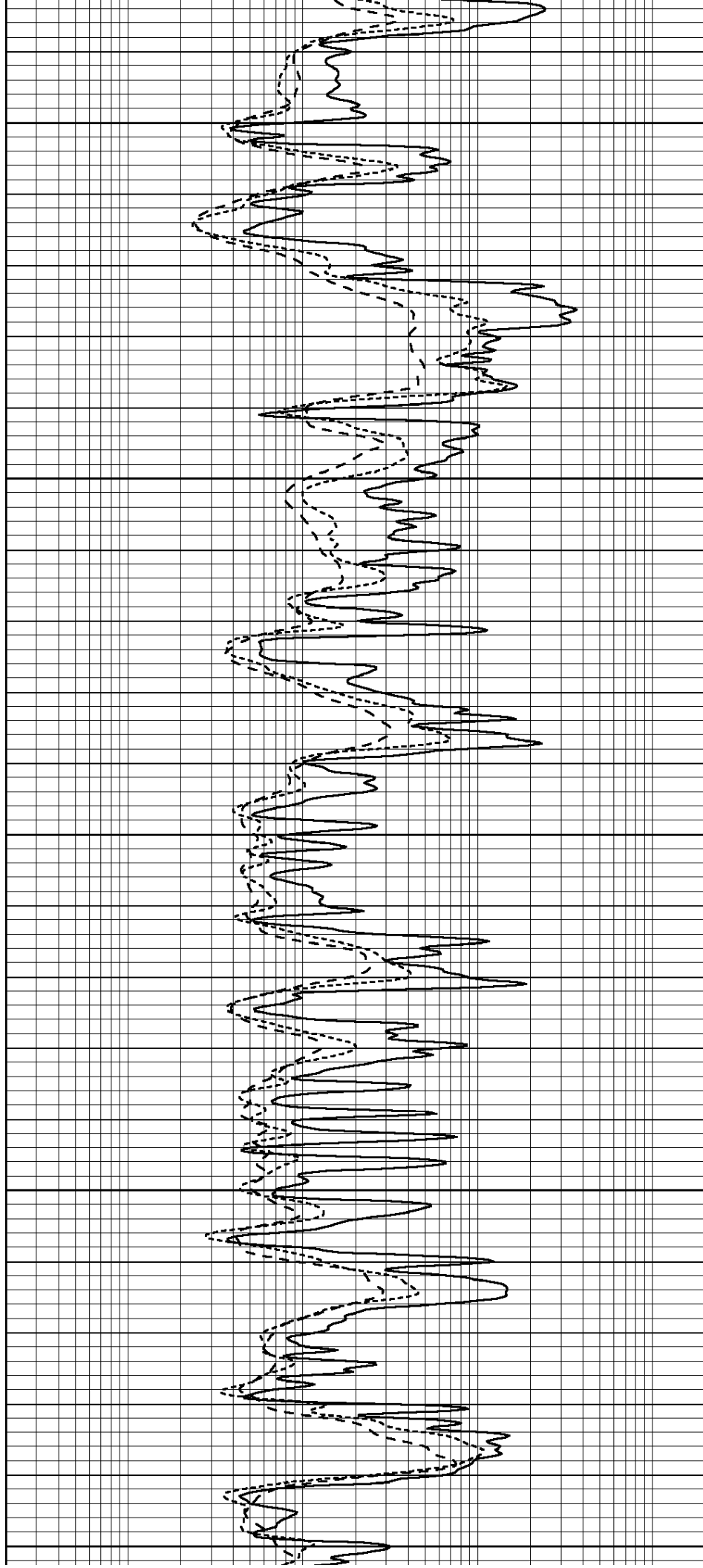
5000

5050

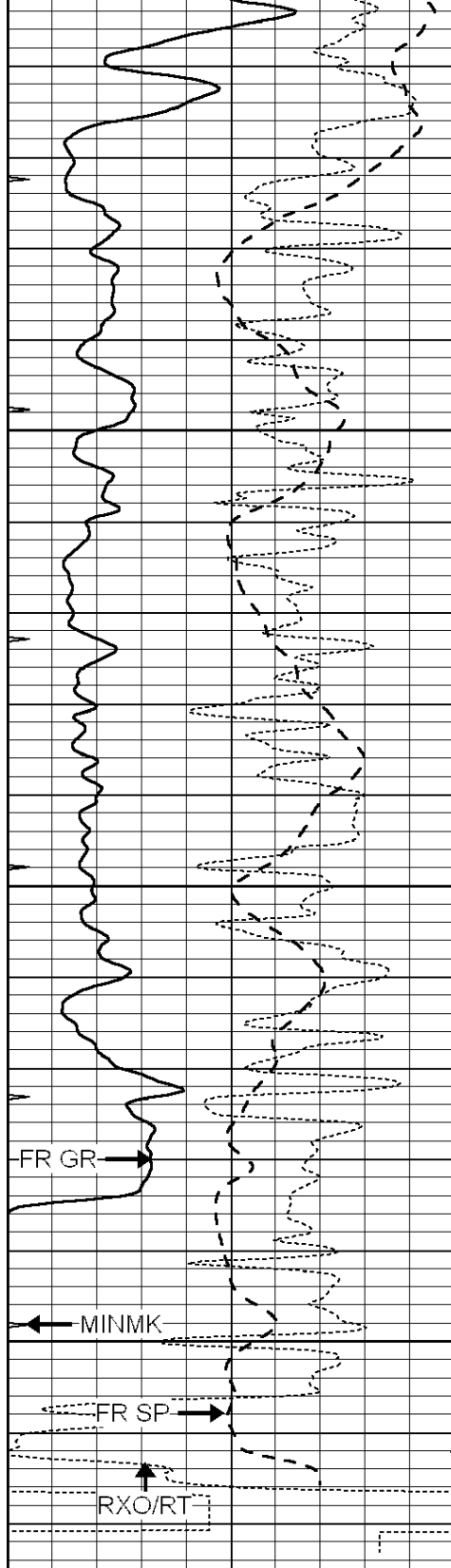
5100

5150

5200







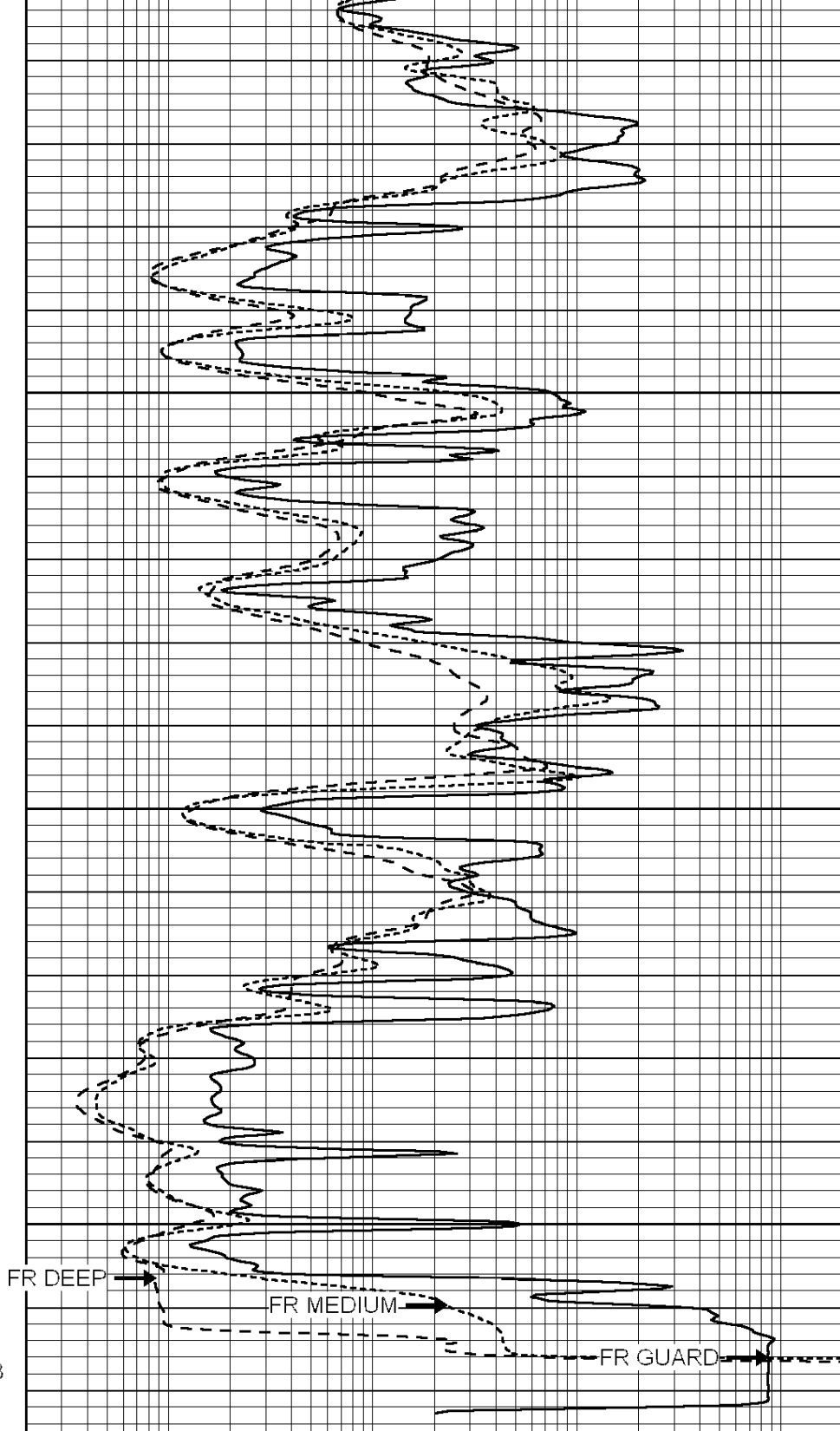
|      |                  |     |
|------|------------------|-----|
| 0    | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV)          | 100 |
| -250 | Rxo/Rt           | 50  |
| 0    | MINMK            | 20  |

5250

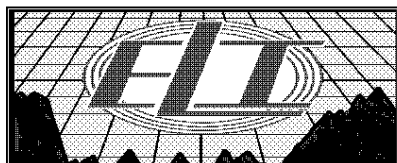
5300

5350

LTD 5368



|     |                          |      |
|-----|--------------------------|------|
| 0.2 | SHALLOW GUARD (Ohm-m)    | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m)   | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |

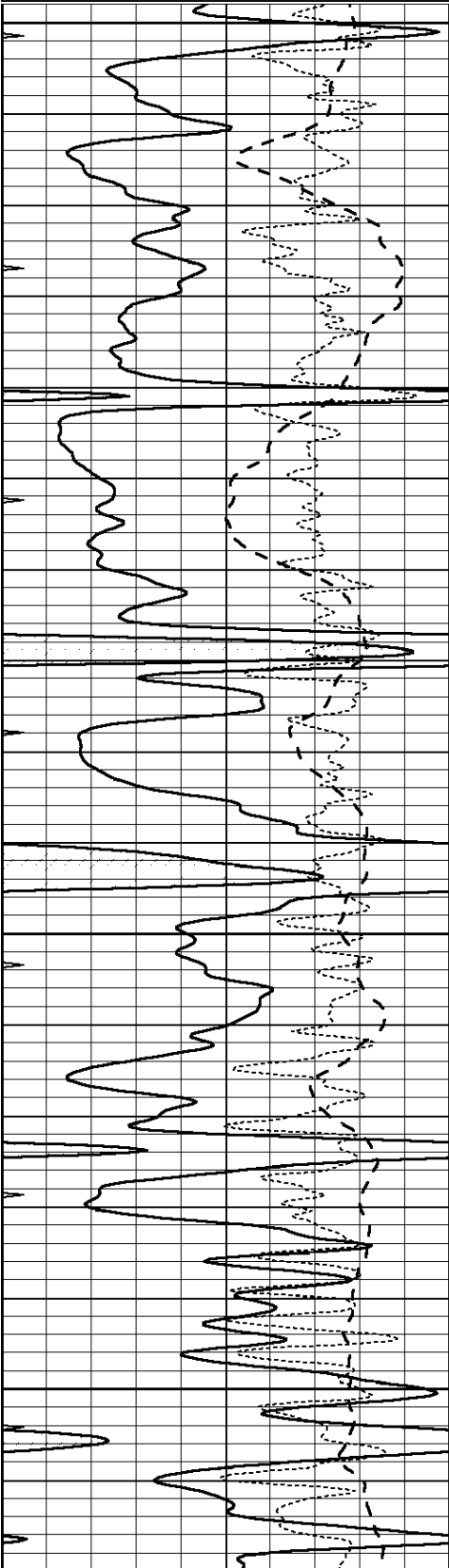


# REPEAT SECTION

Database File: 1584pe.db  
Dataset Pathname: pass2.7  
Presentation Format: \_dil  
Dataset Creation: Fri Jul 07 20:48:24 2017  
Charted by: Depth in Feet scaled 1:240

|      |                  |     |
|------|------------------|-----|
| 0    | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV)          | 100 |
| -250 | Rxo/Rt           | 50  |
| 0    | MINMK            | 20  |

|     |                          |      |
|-----|--------------------------|------|
| 0.2 | SHALLOW GUARD (Ohm-m)    | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m)   | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |

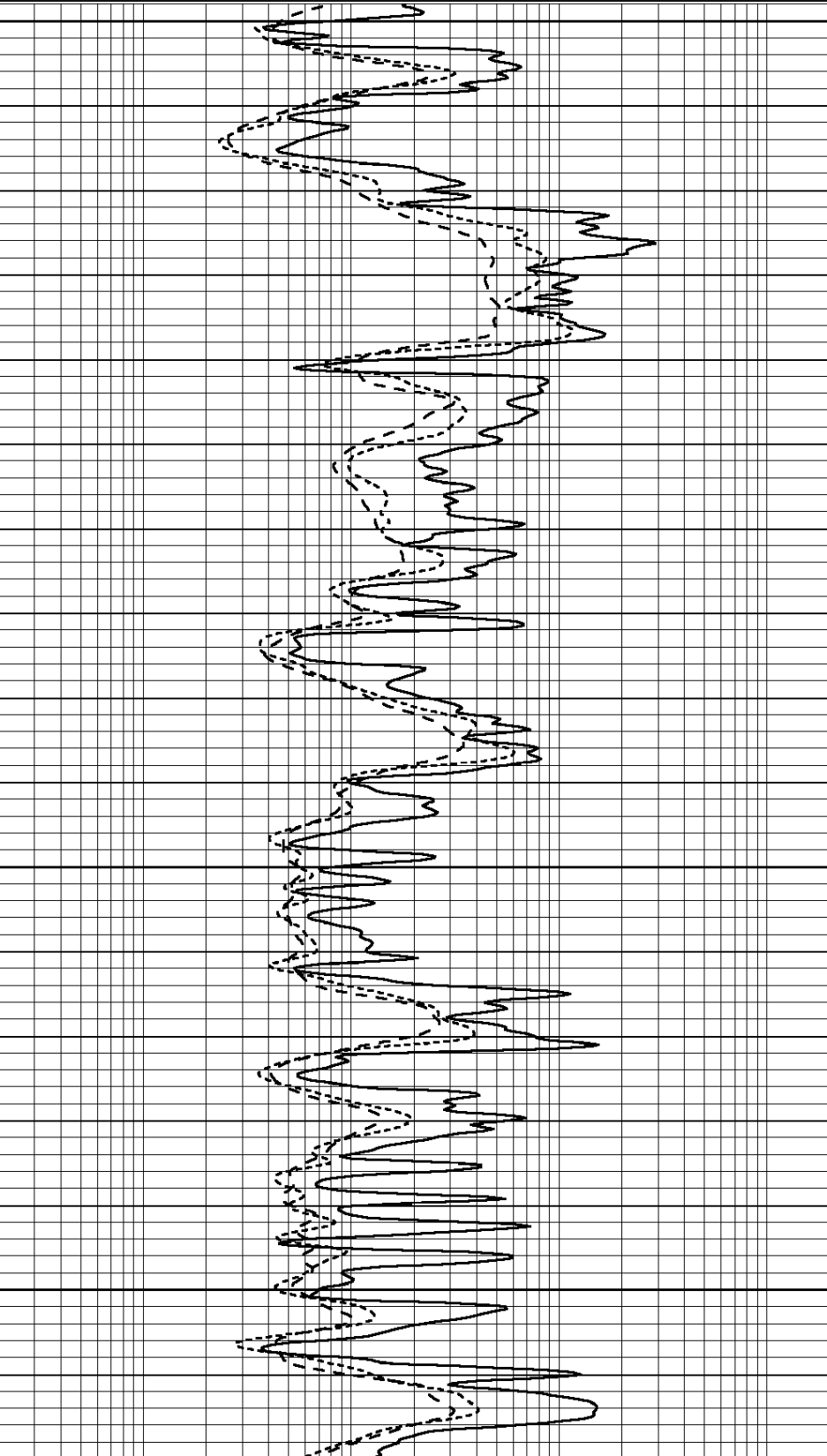


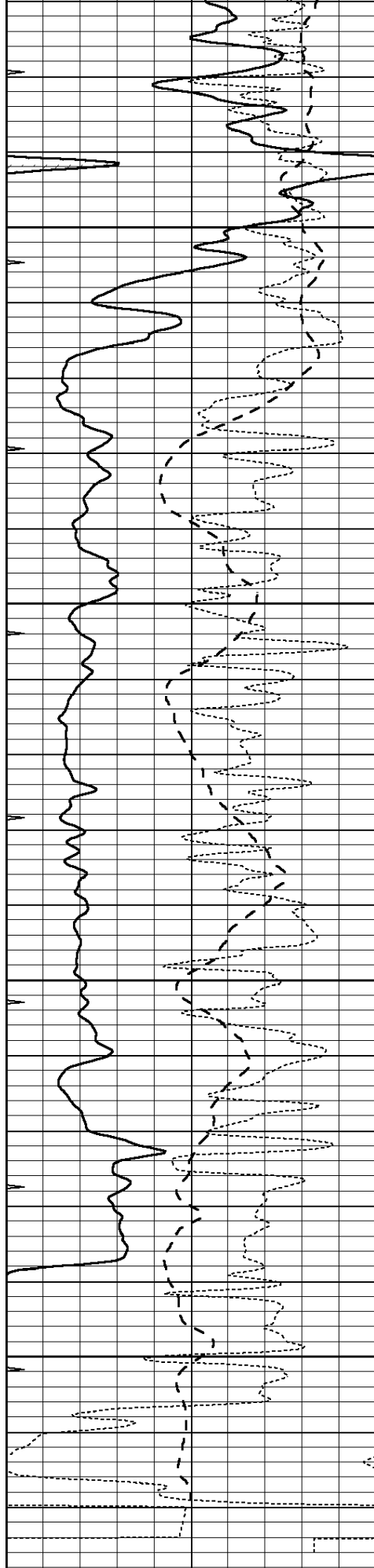
5000

5050

5100

5150





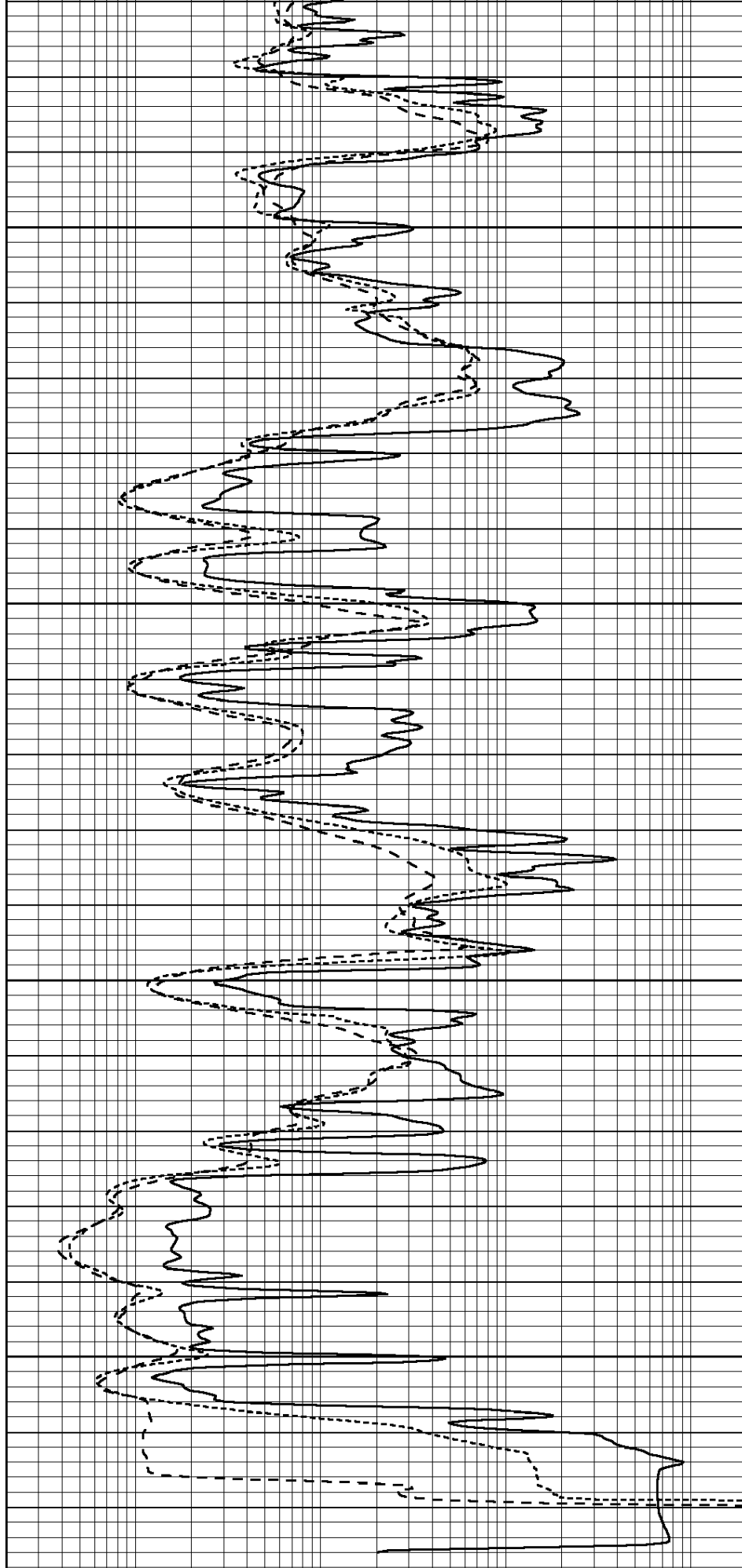
0 GAMMA RAY (GAPI) 150  
-100 SP (mV) 100

5200

5250

5300

5350



0.2 SHALLOW GUARD (Ohm-m) 2000  
0.2 DEEP INDUCTION (Ohm-m) 2000  
0.2 MEDIUM INDUCTION (Ohm-m) 2000

|      |        |    |     |                          |      |
|------|--------|----|-----|--------------------------|------|
| -250 | Rxo/Rt | 50 | 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |
| 0    | MINMK  | 20 |     |                          |      |

### Calibration Report

Database File: 1584pe.db  
Dataset Pathname: pass3.11  
Dataset Creation: Fri Jul 07 21:45:53 2017

### Dual Induction Calibration Report

Serial-Model: PROBE7-DILG  
Surface Cal Performed: Thu Jun 15 16:43:57 2017  
Downhole Cal Performed: Mon Jul 28 12:02:56 2008  
After Survey Verification Performed: Mon Jul 28 12:02:56 2008

#### Surface Calibration

| Readings  |        |       |   | References |         |        | Results |         |
|-----------|--------|-------|---|------------|---------|--------|---------|---------|
| Loop:     | Air    | Loop  |   | Air        | Loop    |        | m       | b       |
| Deep      | -0.014 | 0.629 | V | 0.000      | 400.000 | mmho/m | 650.000 | -6.000  |
| Medium    | 0.039  | 0.728 | V | 0.000      | 464.000 | mmho/m | 675.000 | -57.000 |
| Internal: | Zero   | Cal   |   | Zero       | Cal     |        | m       | b       |
| Deep      | 0.011  | 0.610 | V | 0.000      | 400.000 | mmho/m | 667.135 | -7.256  |
| Medium    | 0.005  | 0.712 | V | 0.000      | 464.000 | mmho/m | 655.677 | -3.102  |

#### Downhole Calibration

| Readings |       |        |        | References |          |        | Results |       |
|----------|-------|--------|--------|------------|----------|--------|---------|-------|
|          | Zero  | Cal    |        | Zero       | Cal      |        | m'      | b'    |
| Deep     | 0.000 | 0.000  | mmho/m | 14.508     | 388.384  | mmho/m | 1.000   | 0.000 |
| Medium   | 0.000 | 0.000  | mmho/m | 166.367    | 504.400  | mmho/m | 1.000   | 0.000 |
| LL3      |       | 7.500  | V      |            | 1400.000 | Ohm-m  |         |       |
|          |       | 0.000  | V      |            | 20.000   | Ohm-m  |         |       |
|          |       | -7.200 | V      |            | 4000.000 | 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: 004N Model: PRB

#### Master Calibration

Performed Fri May 30 11:01:00 2014

|             | Background | Magnesium | Aluminum | Sandstone |      |
|-------------|------------|-----------|----------|-----------|------|
| Window 1    | 1378.8     | 10804.6   | 3492.0   | 12453.4   | cps  |
| Window 2    | 1262.4     | 9313.5    | 3076.7   | 10594.7   | cps  |
| Window 3    | 1077.6     | 5668.7    | 2076.0   | 6314.8    | cps  |
| Window 4    | 306.4      | 313.0     | 306.4    | 315.6     | cps  |
| Long Space  | 0.0        | 8051.0    | 1814.3   | 9332.3    | cps  |
| Short Space | 1.9        | 1706.1    | 1146.0   | 1707.6    | cps  |
| Rho         |            | 1.7100    | 2.5900   | 1.3800    | g/cc |
| Pe          |            | 0.0000    | 2.5700   | 1.5500    |      |

|             |        |             |         |                     |         |
|-------------|--------|-------------|---------|---------------------|---------|
| Rib Angle   | : 45.0 | Rib Slope   | : 1.002 | Density/Spine Ratio | : 0.571 |
| Spine Angle | : 75.0 | Spine Slope | : 3.745 | Spine Intercept     | : -18.9 |

|                            |     |        |                                    |        |      |
|----------------------------|-----|--------|------------------------------------|--------|------|
| 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 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: | 070808 |
| Tool Model:    | 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:      | 070558                   |          |
| Tool Model:         | OPEN_GR                  |          |
| Performed:          | Wed May 31 00:09:32 2017 |          |
| Calibrator Value:   | 1.0                      | GAPI     |
| Background Reading: | 0.0                      | cps      |
| Calibrator Reading: | 1.0                      | cps      |
| Sensitivity:        | 0.2800                   | GAPI/cps |