

# DUAL INDUCTION LOG

|                              |                           |                |                      |
|------------------------------|---------------------------|----------------|----------------------|
| Company                      | RED OAK ENERGY, INC.      | Company        | RED OAK ENERGY, INC. |
| Well                         | EQUINOX #1-34             | Well           | EQUINOX #1-34        |
| Field                        | WC                        | Field          | WC                   |
| County                       | WALLACE                   | County         | WALLACE              |
| State                        | KANSAS                    | State          | KANSAS               |
| Location:                    | API # : 15-199-20449-0000 | Other Services | CDL/CNL              |
| Permanent Datum              | 713' FSL & 1459' FWL      | Elevation      |                      |
| Log Measured From            | GROUND LEVEL              | Elevation      | 3802                 |
| Drilling Measured From       | KELLY BUSHING 11' A.G.L.  | D.F.           | 3811                 |
|                              | KELLY BUSHING             | G.L.           | 3802                 |
| Date                         | 5/21/19                   |                |                      |
| Run Number                   | ONE                       |                |                      |
| Depth Driller                | 5250                      |                |                      |
| Depth Logger                 | 5253                      |                |                      |
| Bottom Logged Interval       | 5252                      |                |                      |
| Top Log Interval             | 600                       |                |                      |
| Casing Driller               | 8 5/8" @ 622              |                |                      |
| Casing Logger                | 622                       |                |                      |
| Bit Size                     | 7 7/8"                    |                |                      |
| Type Fluid in Hole           | CHEMICAL MUD              |                |                      |
| Density / Viscosity          | 9.2/54                    |                |                      |
| pH / Fluid Loss              | 10.0/7.0                  |                |                      |
| Source of Sample             | FLOWLINE                  |                |                      |
| Rm @ Meas. Temp              | 1.4 @ 59F                 |                |                      |
| Rmt @ Meas. Temp             | 1.05 @ 59F                |                |                      |
| Rmc @ Meas. Temp             | 1.68 @ 59F                |                |                      |
| Source of Rmt / Rmc          | MEASURED                  |                |                      |
| Rm @ BHT                     | .65 @ 127F                |                |                      |
| Time Circulation Stopped     | 2 HOURS                   |                |                      |
| Time Logger on Bottom        | ///                       |                |                      |
| Maximum Recorded Temperature | 127F                      |                |                      |
| Equipment Number             | 1523                      |                |                      |
| Location                     | HAYS, KANSAS              |                |                      |
| Recorded By                  | GUS PFANENSTIEL           |                |                      |
| Witnessed By                 | RYAN DAVIS                |                |                      |

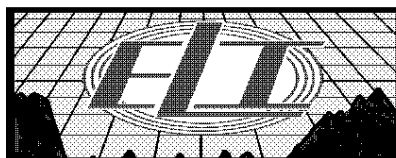
<<< Fold Here >>>

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, KS. (785) 628-6395

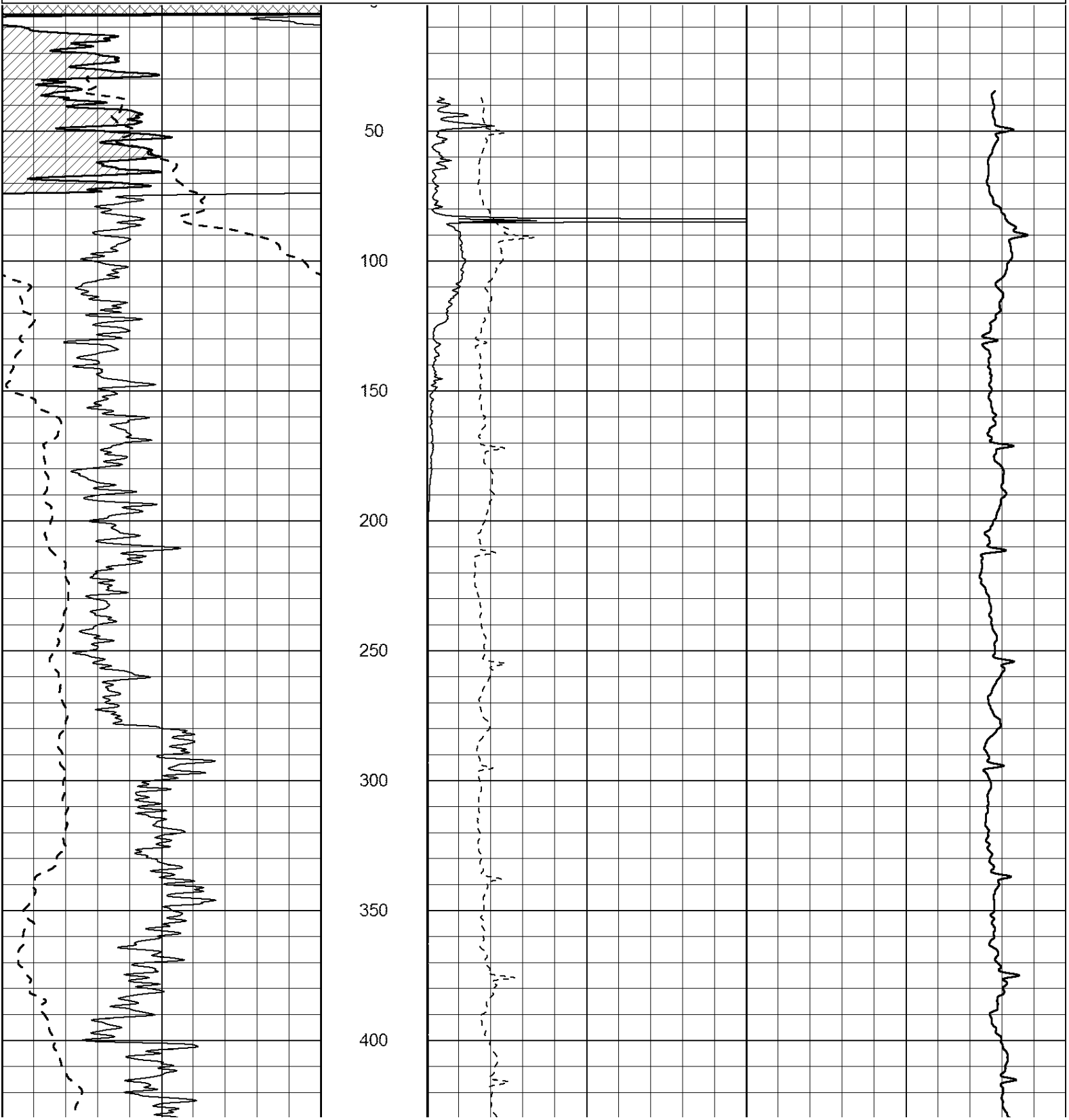
DIRECTIONS  
SHARON SPRINGS SOUTH TO G RD< WEST 7,  
NORTH INTO.

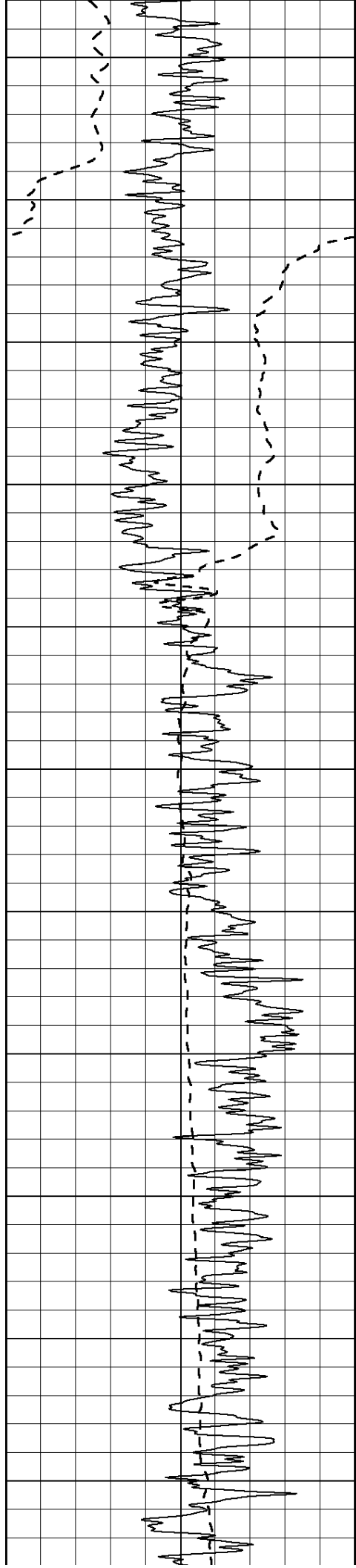


# MAIN PASS

Database File: 3683pe.db  
Dataset Pathname: pass3.1  
Presentation Format: \_dil2  
Dataset Creation: Tue May 21 11:37:05 2019  
Charted by: Depth in Feet scaled 1:600

|       |                  |     |       |                  |     |
|-------|------------------|-----|-------|------------------|-----|
| 0     | Gamma Ray (GAPI) | 150 | 0     | RLL3 (Ohm-m)     | 50  |
| -100  | SP (mV)          | 100 | 0     | RILD (Ohm-m)     | 50  |
| ----- |                  |     | ----- |                  |     |
|       |                  |     | 1000  | CILD (mmho/m)    | 0   |
|       |                  |     | 50    | RILD X10 (Ohm-m) | 500 |
|       |                  |     | 50    | RLL3 X10 (Ohm-m) | 500 |
|       |                  |     | ----- |                  |     |





450

500

550

600

650

700

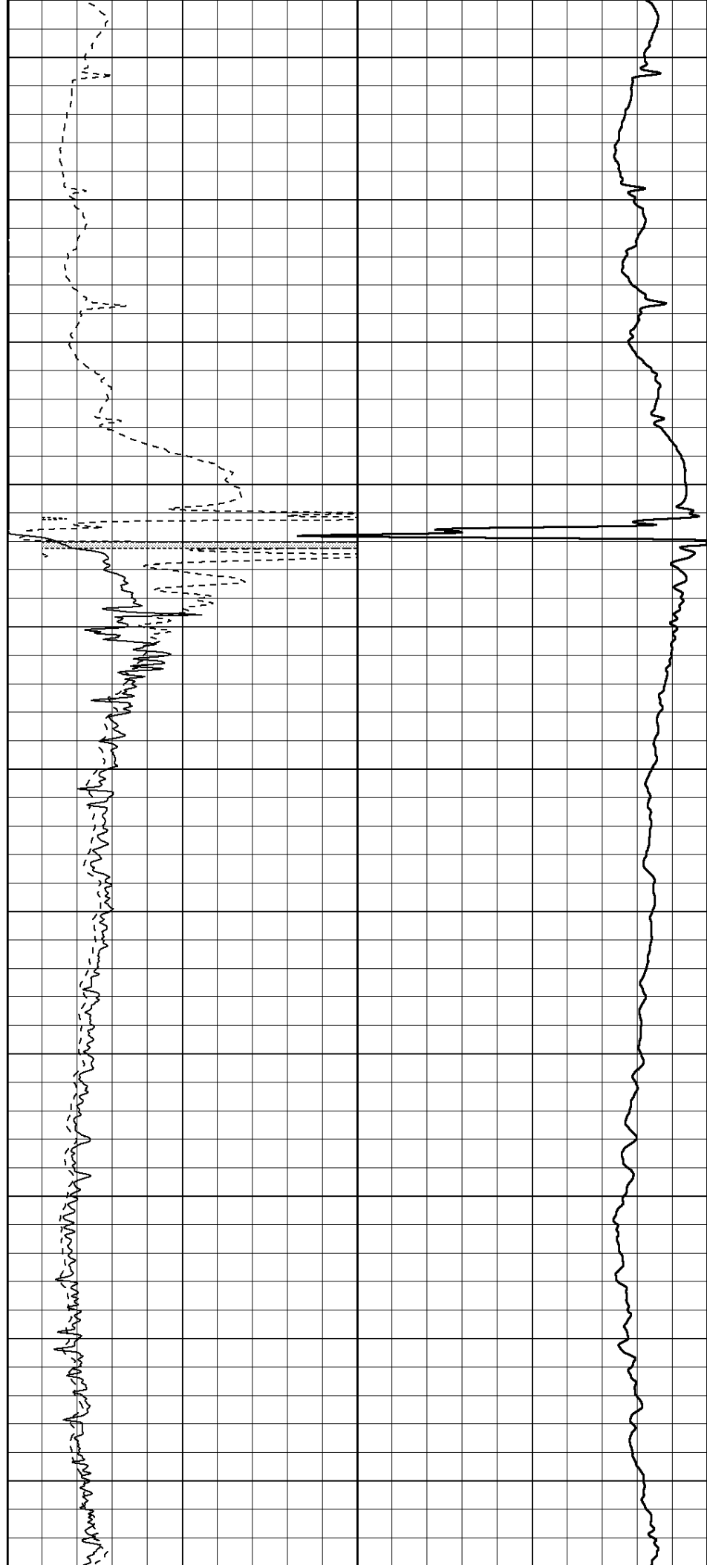
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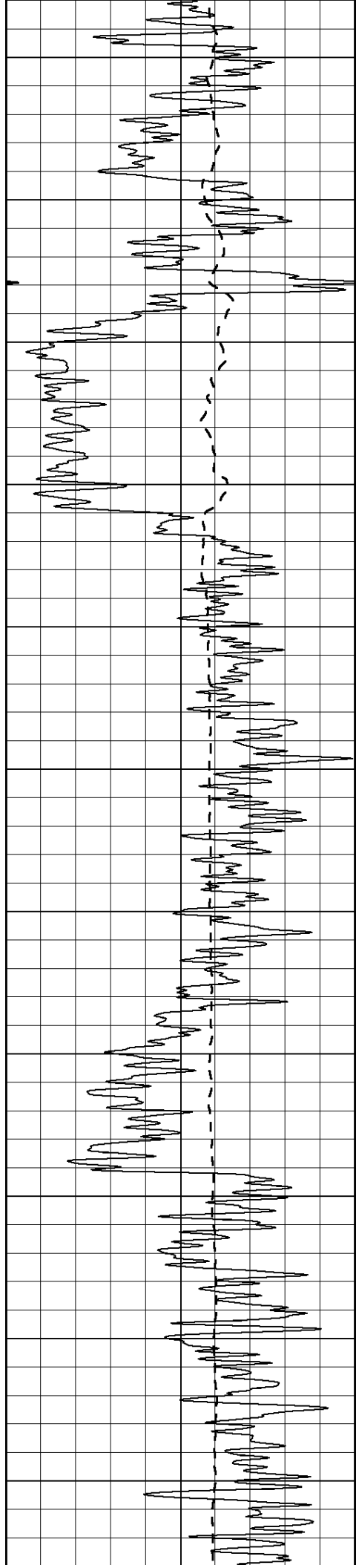
800

850

900

950





1000

1050

1100

1150

1200

1250

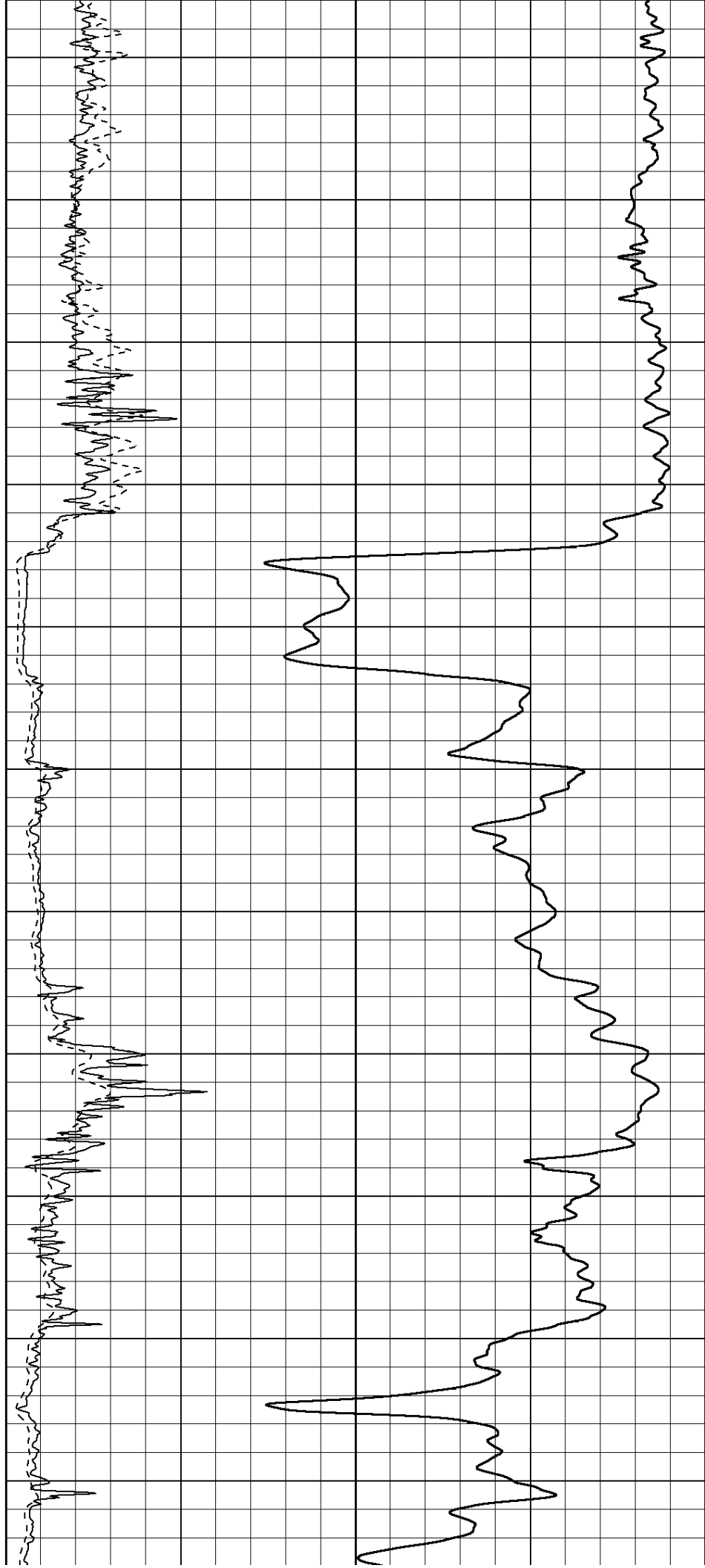
1300

1350

1400

1450

1500



1550

1600

1650

1700

1750

1800

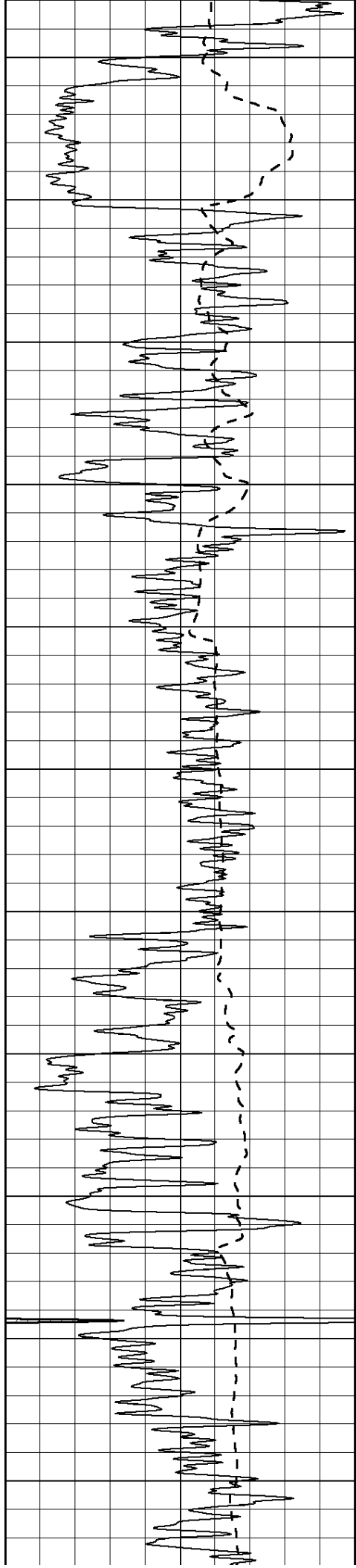
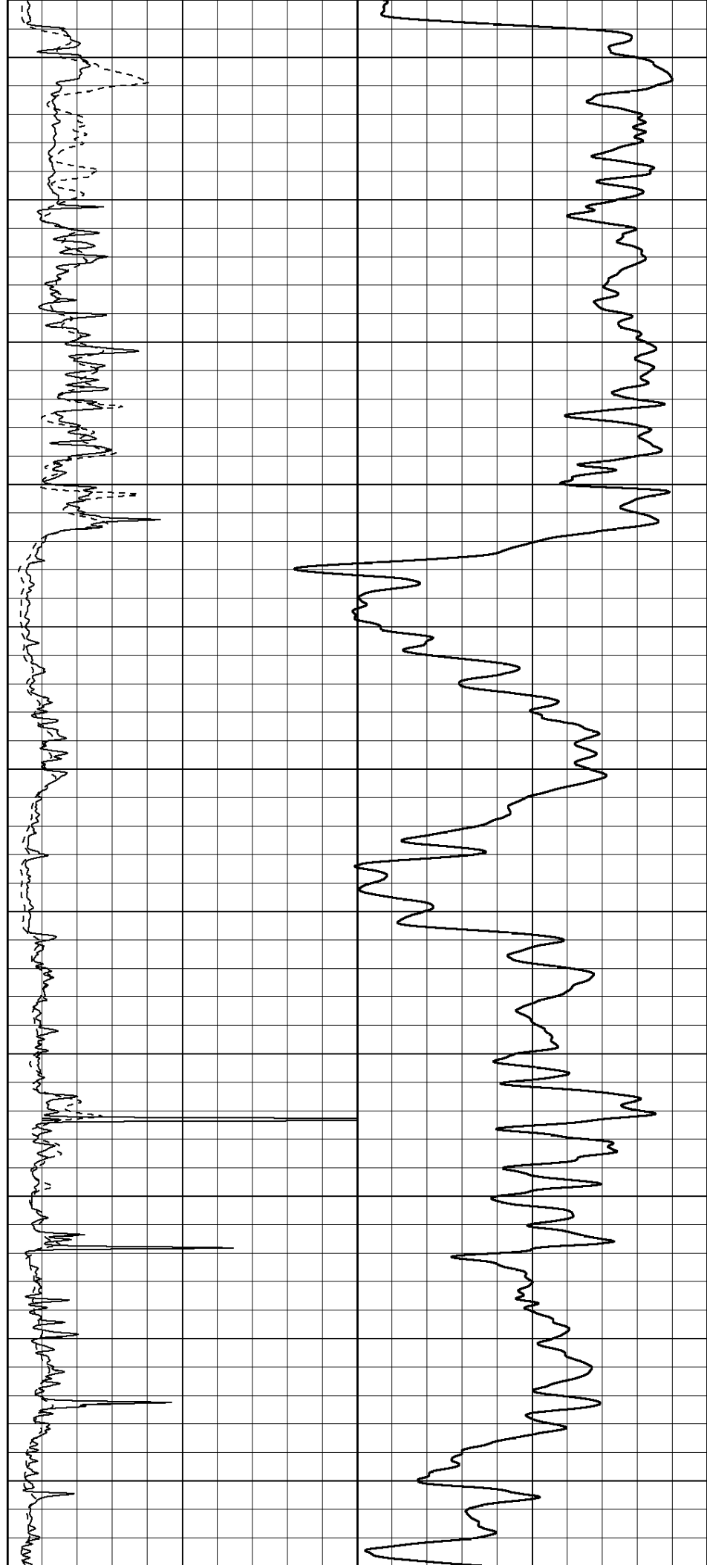
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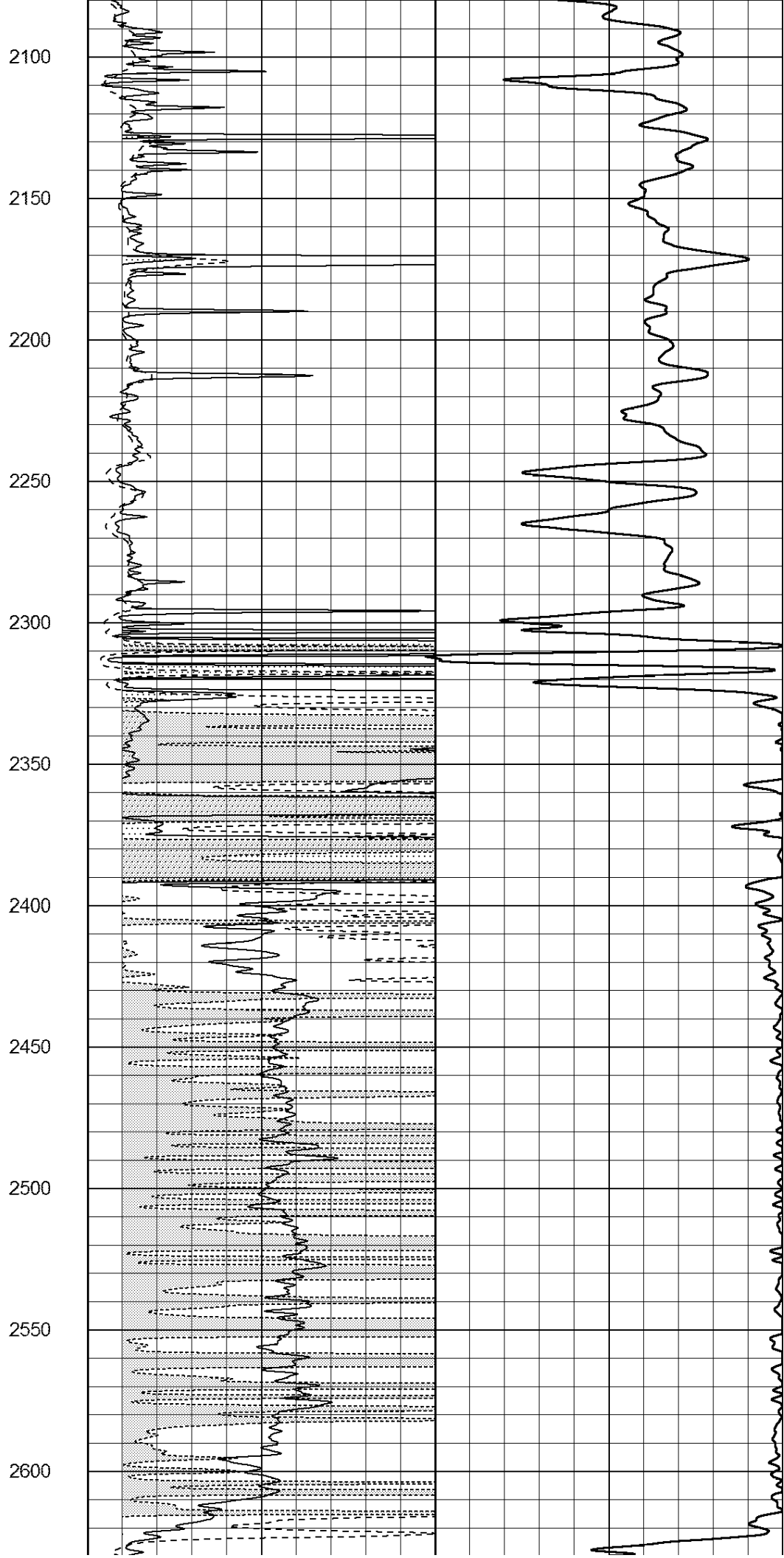
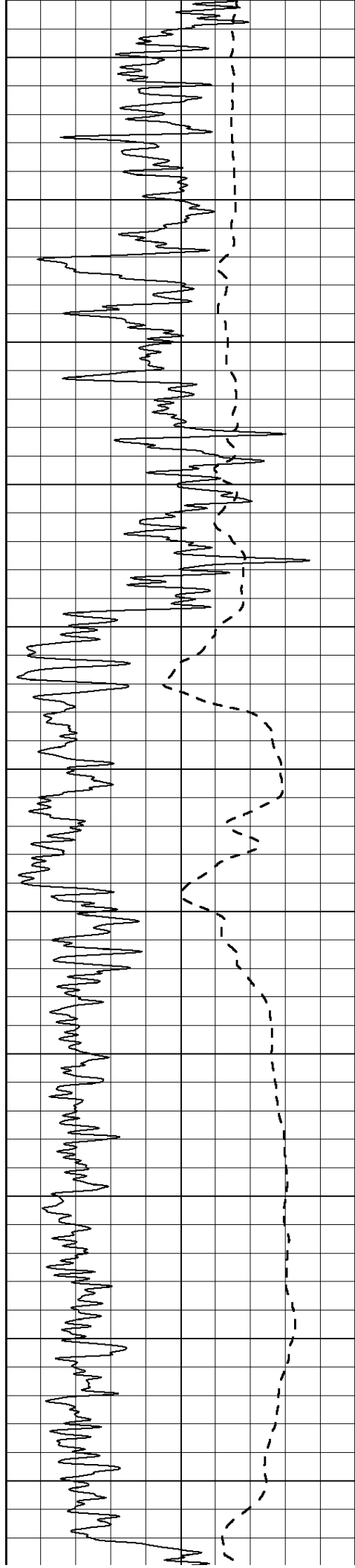
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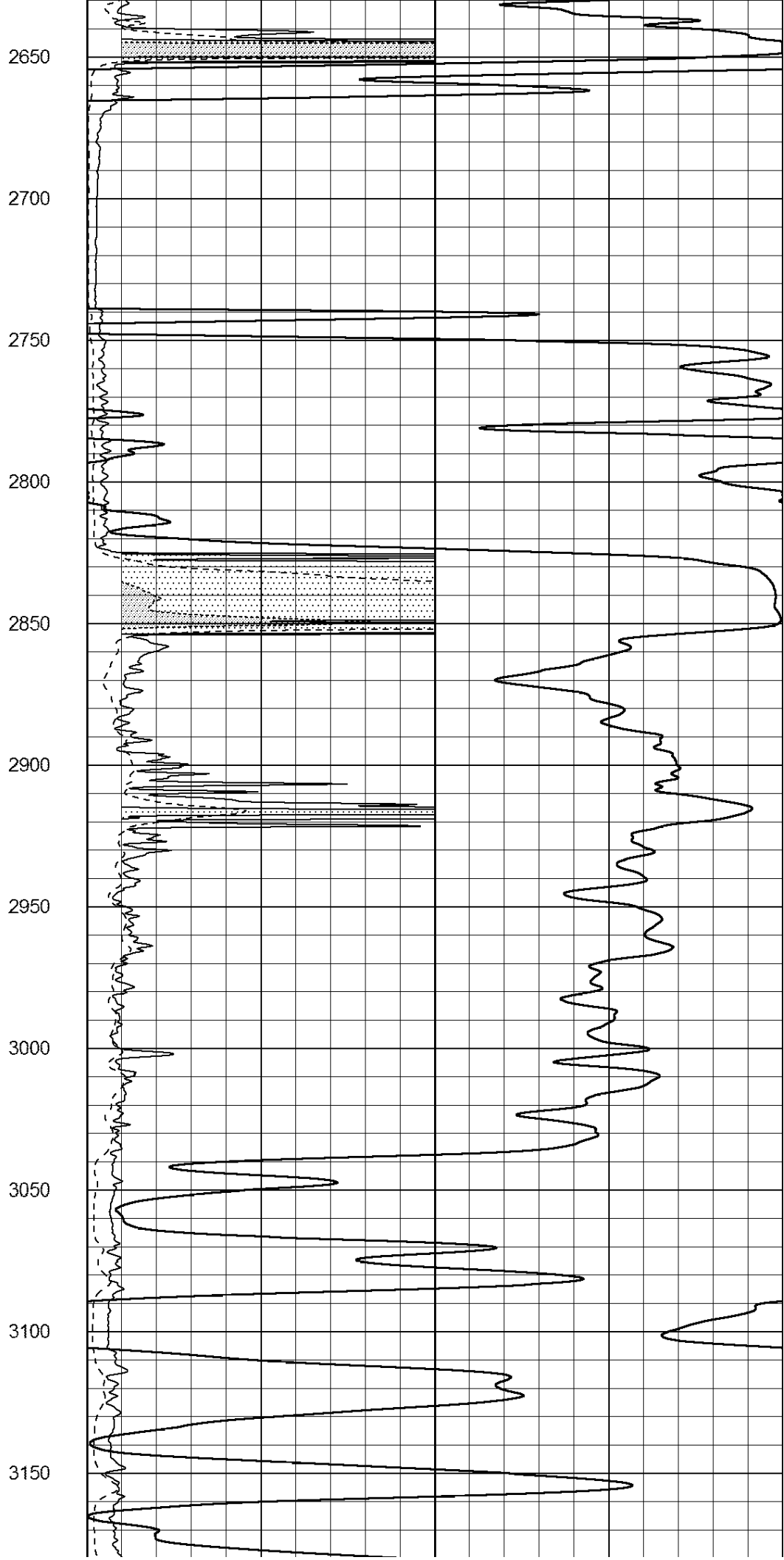
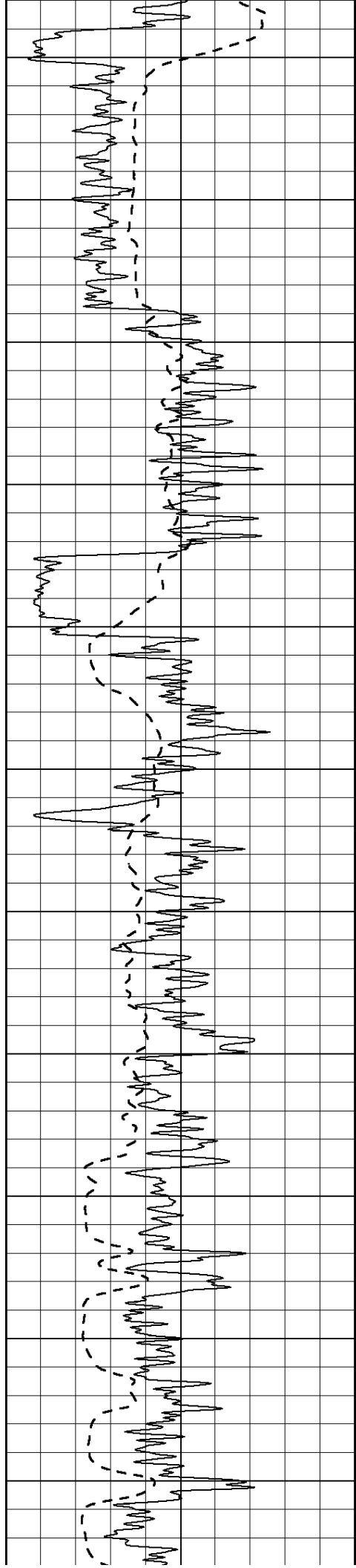
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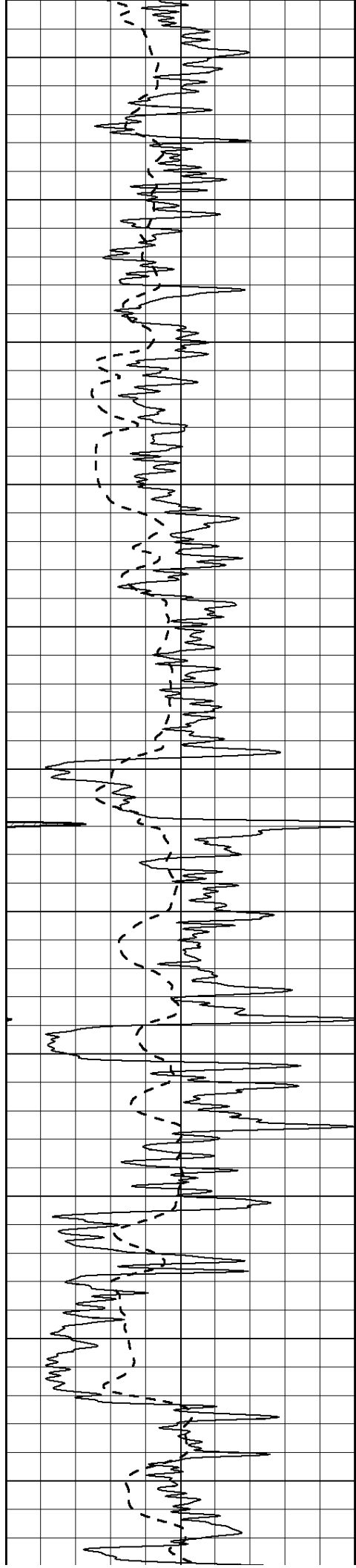
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2050









3200

3250

3300

3350

3400

3450

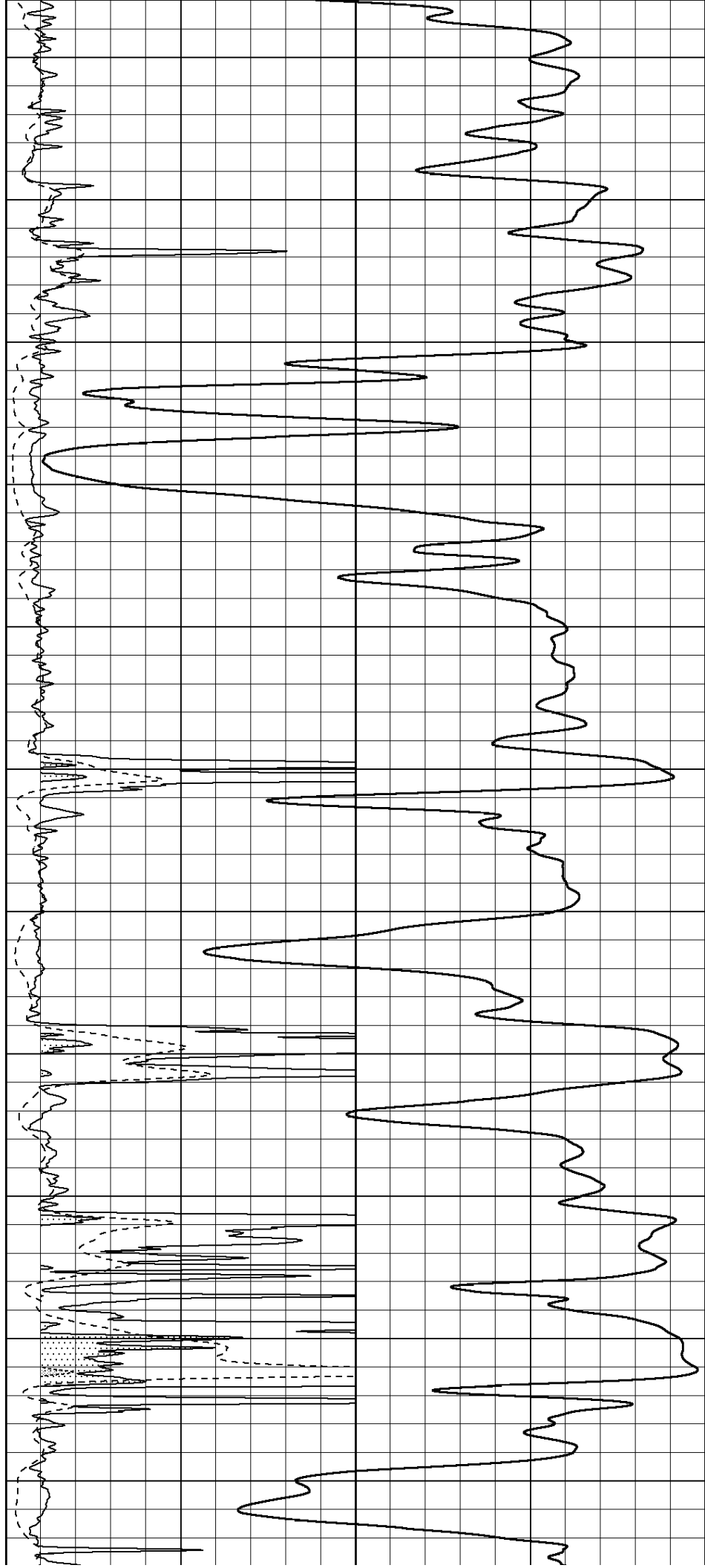
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3550

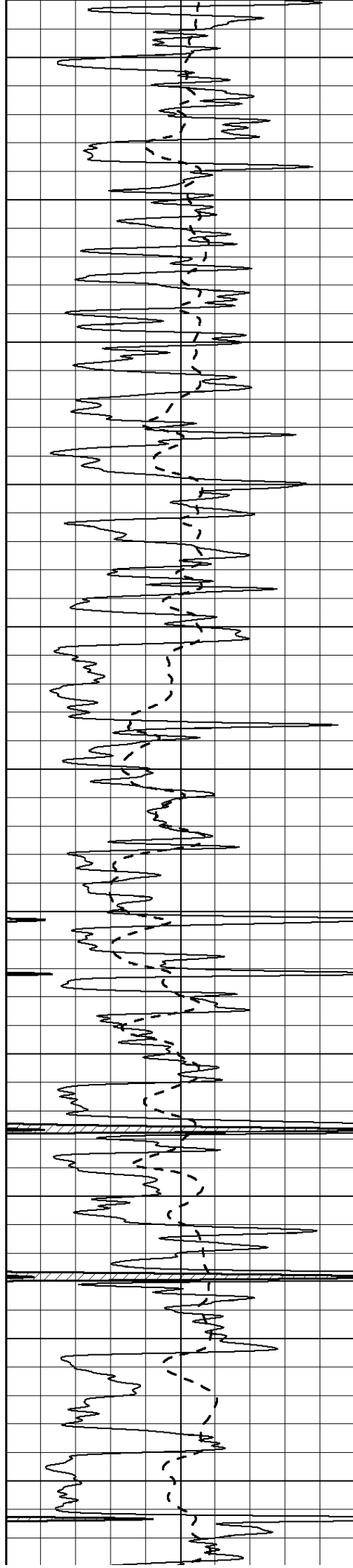
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3650

3700







3750

3800

3850

3900

3950

4000

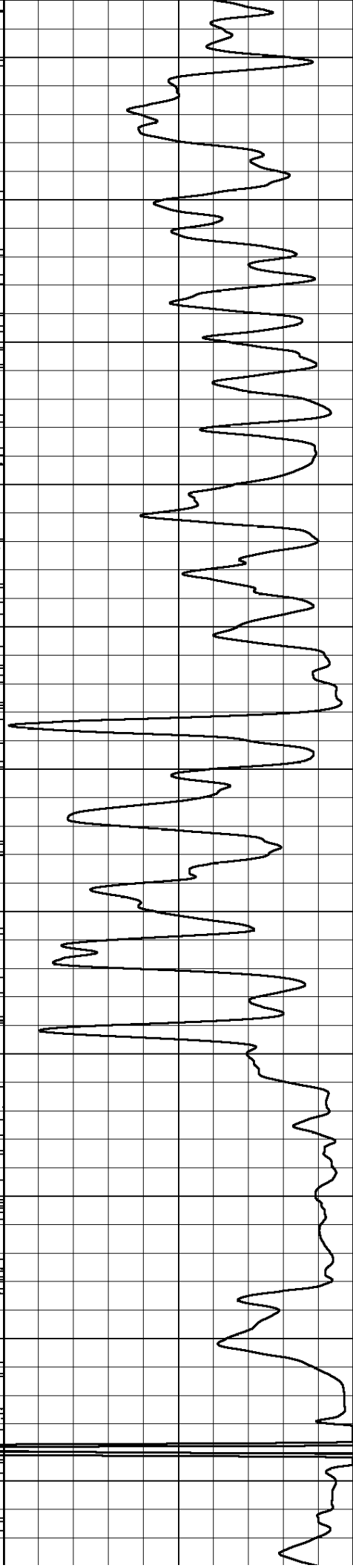
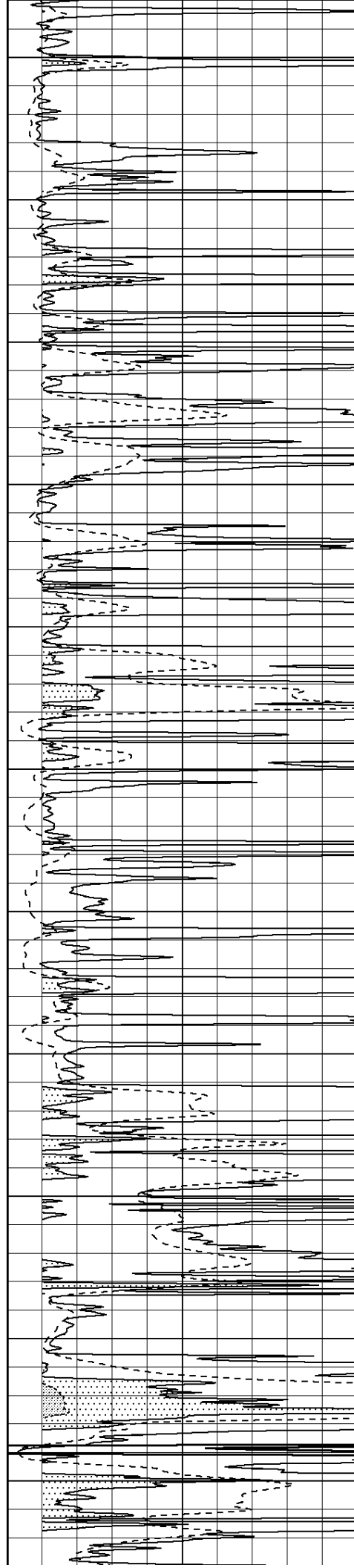
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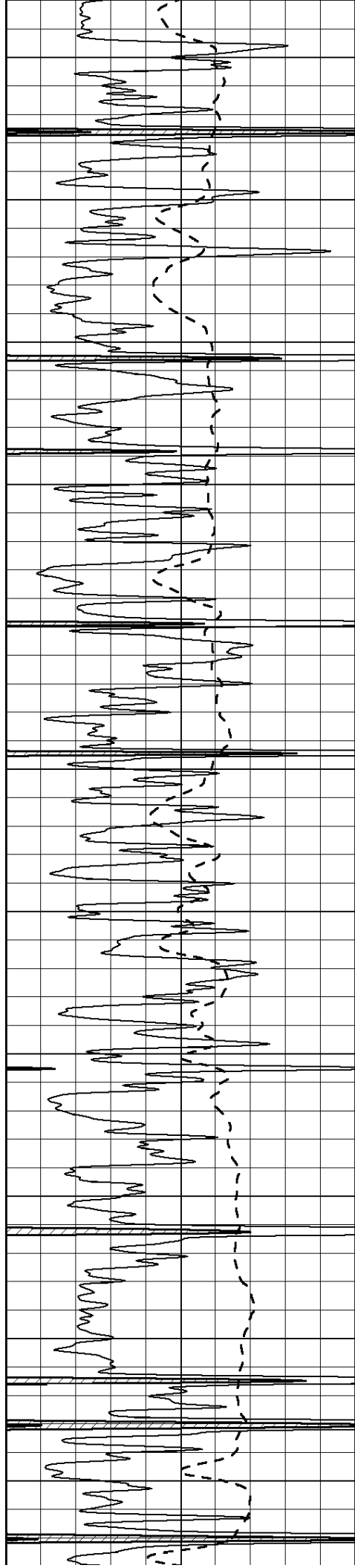
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4150

4200

4250





4300

4350

4400

4450

4500

4550

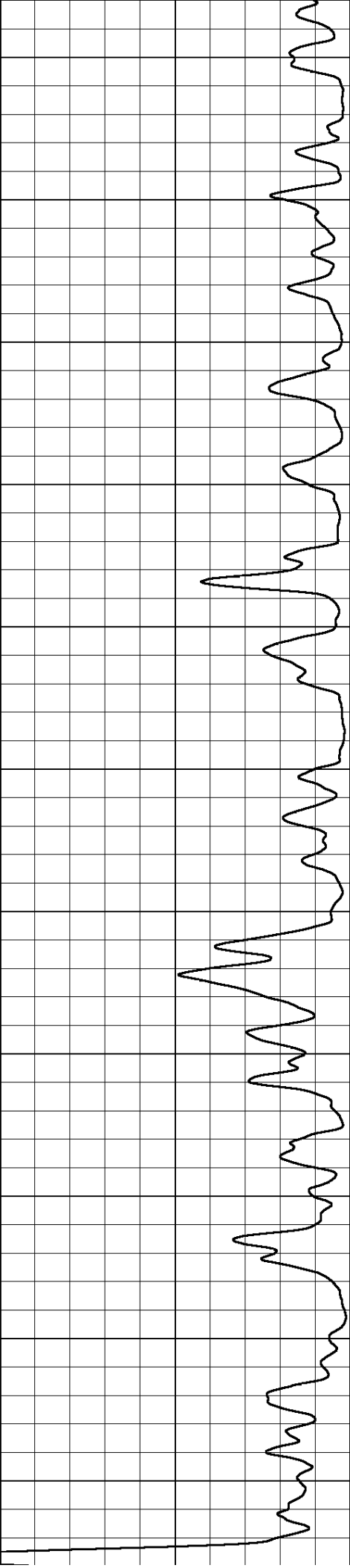
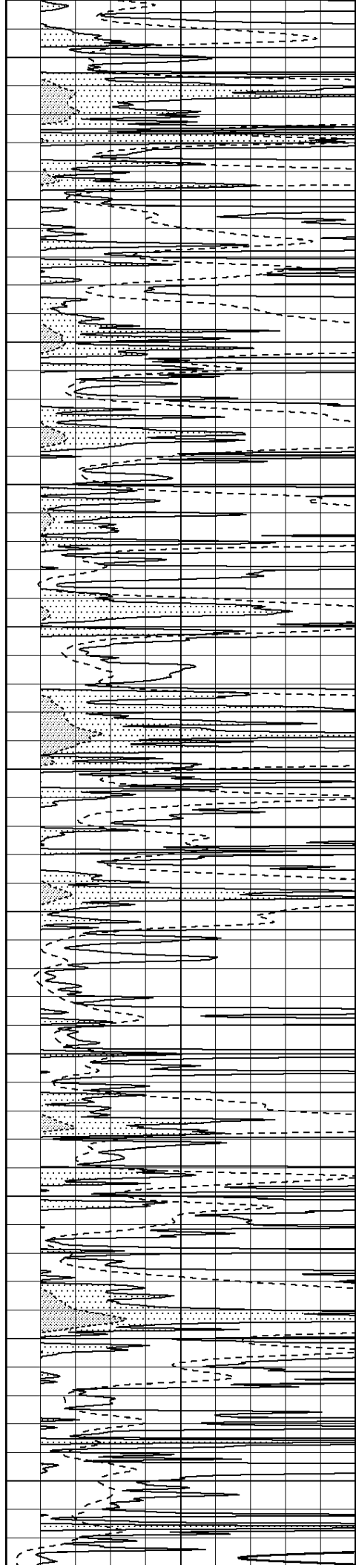
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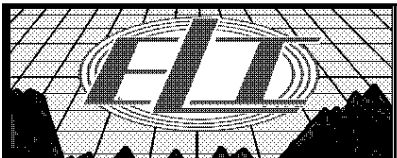
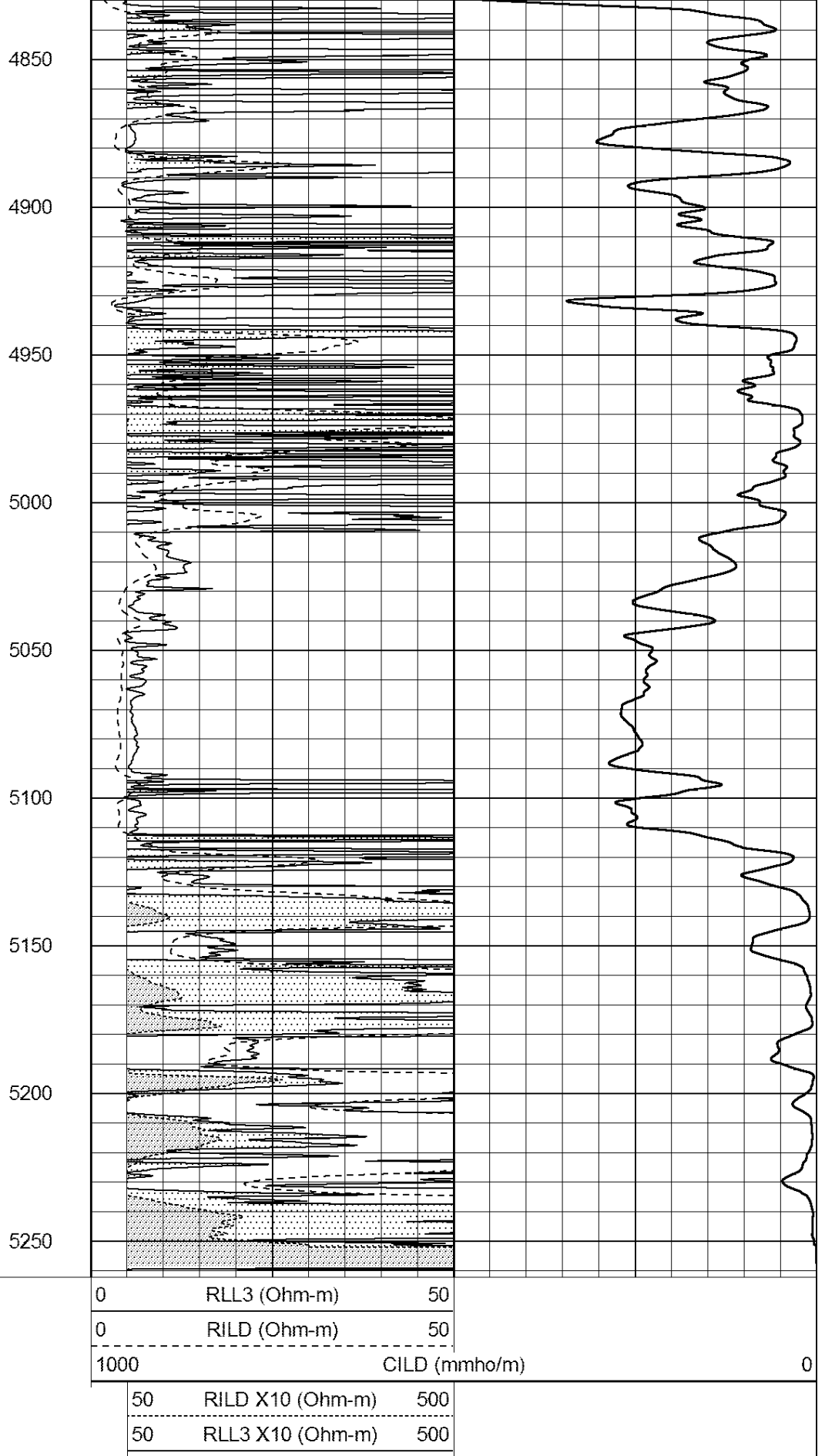
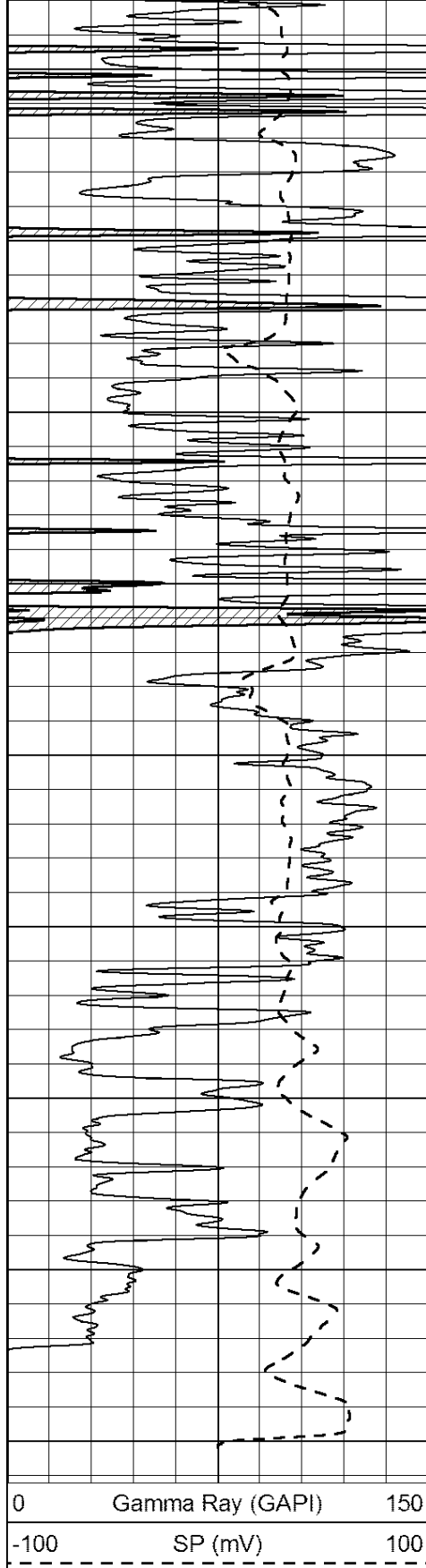
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4700

4750

4800



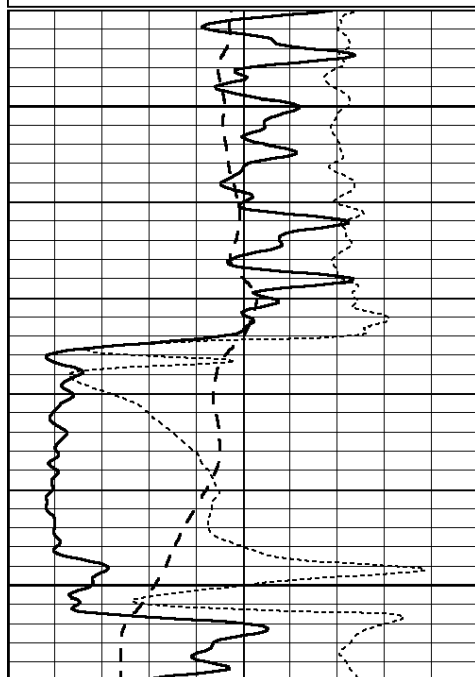


MAIN PASS

Database File: 3683pe.db  
 Dataset Pathname: pass3.1  
 Presentation Format: \_dil  
 Dataset Creation: Tue May 21 11:37:05 2019  
 Charted by: Depth in Feet scaled 1:240

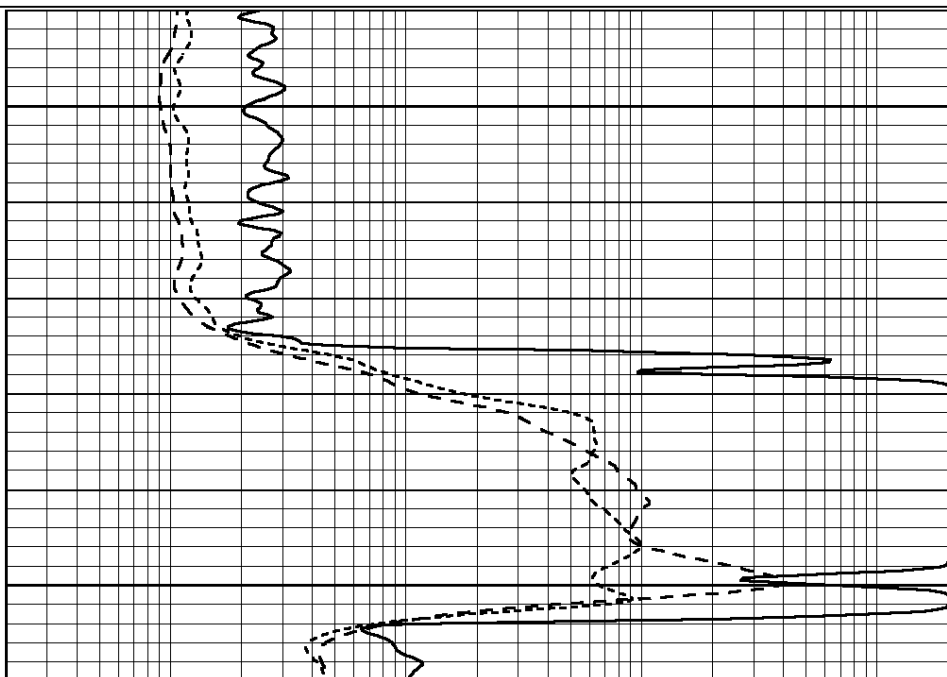
|      |                  |     |
|------|------------------|-----|
| 0    | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV)          | 100 |
| -250 | Rxo/Rt           | 50  |
| 0    | MINMK            | 20  |

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



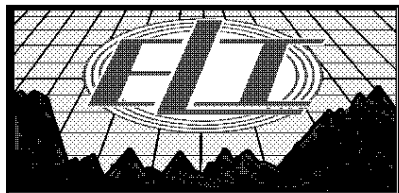
2800

2850



|      |                  |     |
|------|------------------|-----|
| 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 |

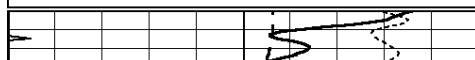


# MAIN PASS

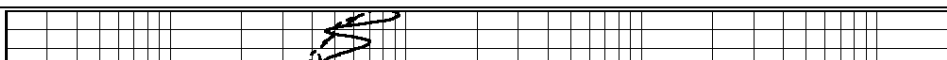
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 Dataset Pathname: pass3.1  
 Presentation Format: \_dil  
 Dataset Creation: Tue May 21 11:37:05 2019  
 Charted by: Depth in Feet scaled 1:240

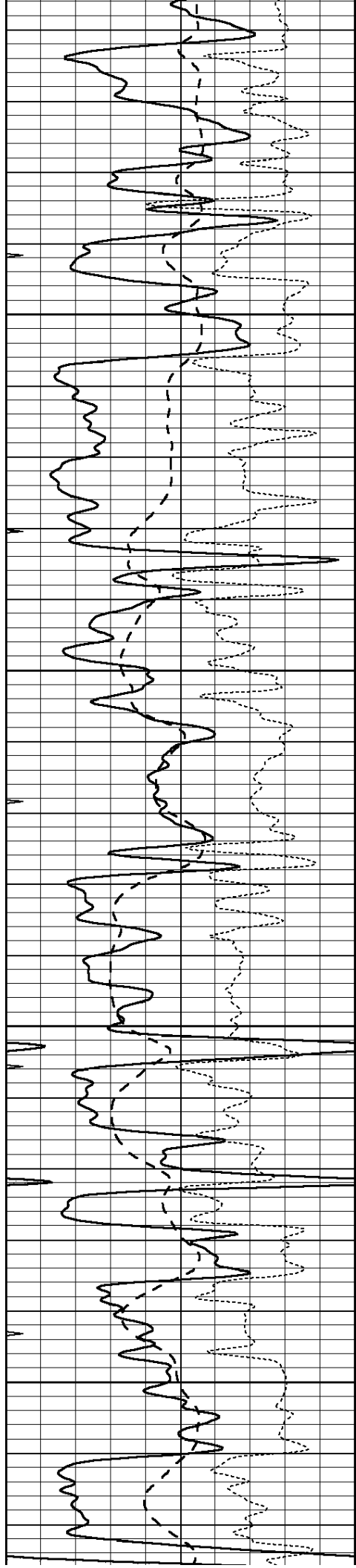
|      |                  |     |
|------|------------------|-----|
| 0    | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV)          | 100 |
| -250 | Rxo/Rt           | 50  |
| 0    | MINMK            | 20  |

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



2800



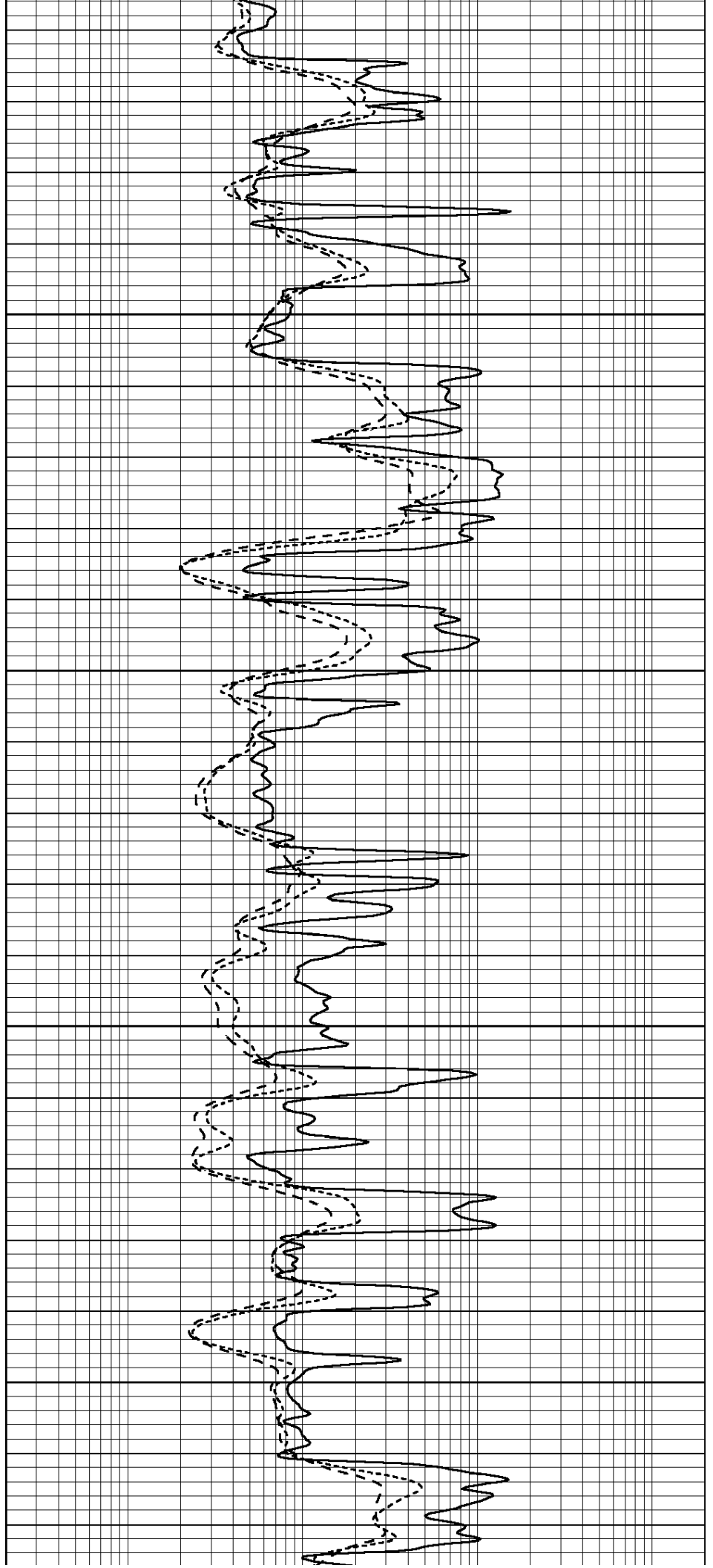


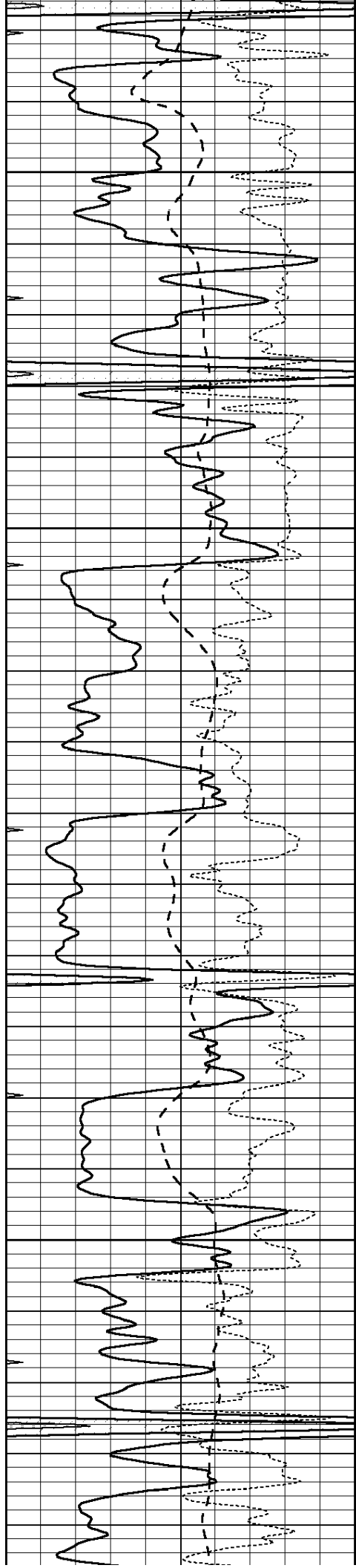
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4000

4050

4100



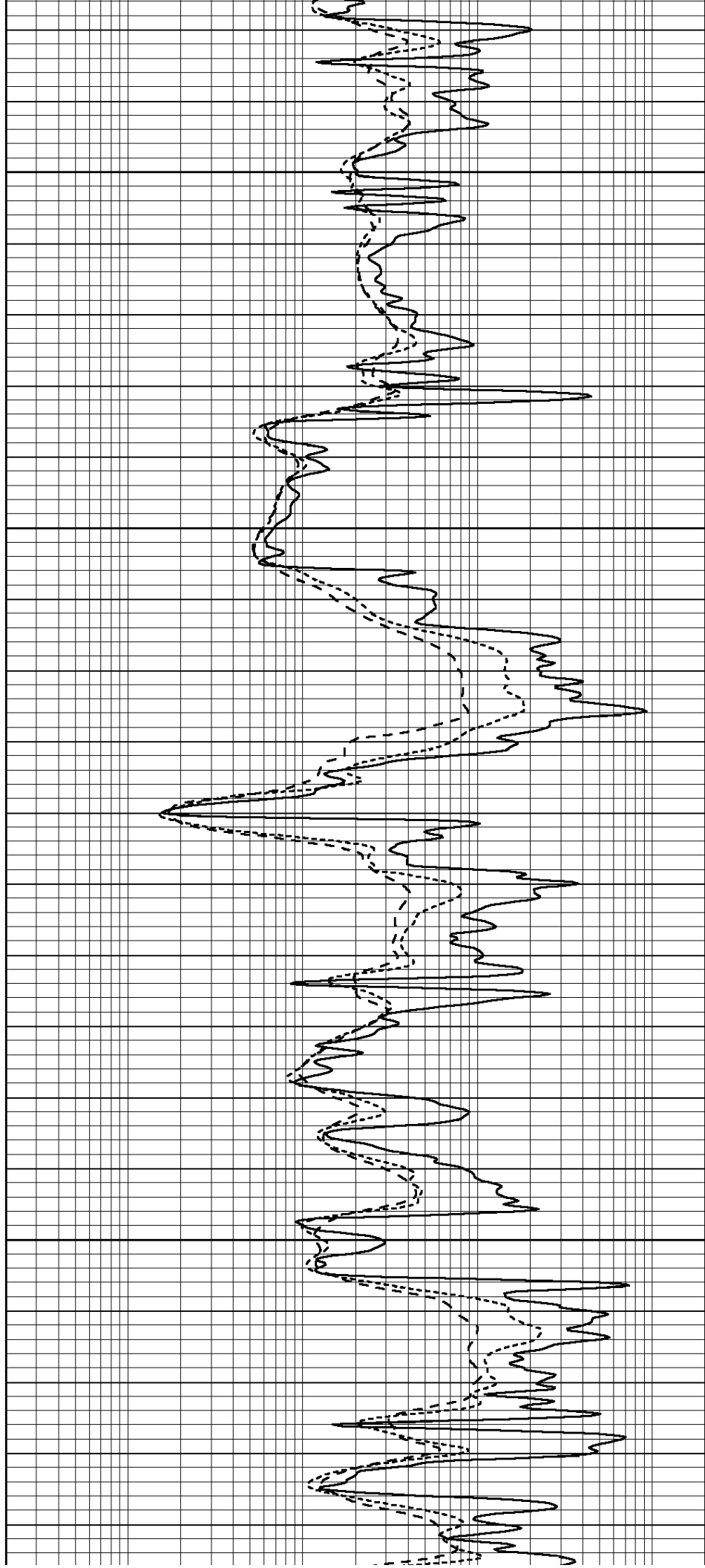


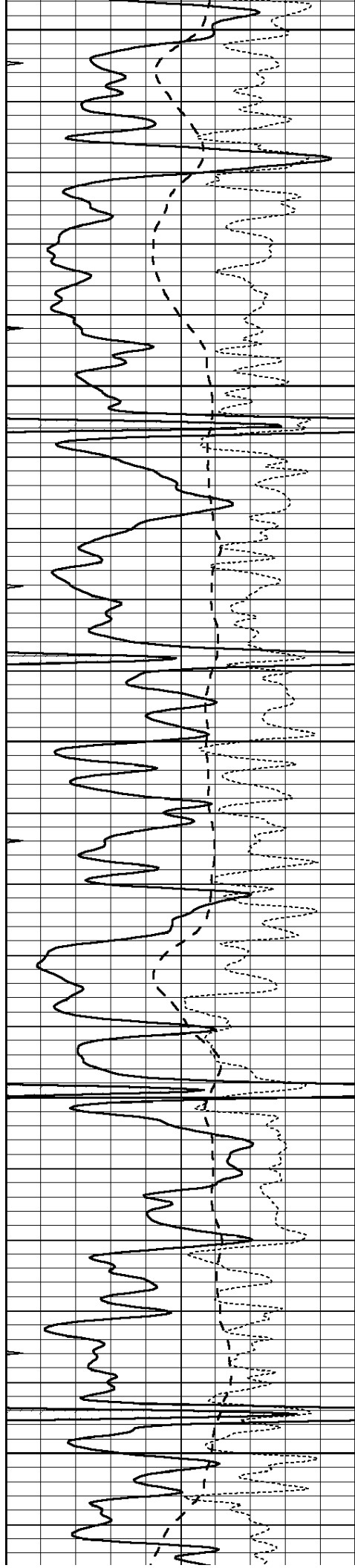
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4200

4250

4300





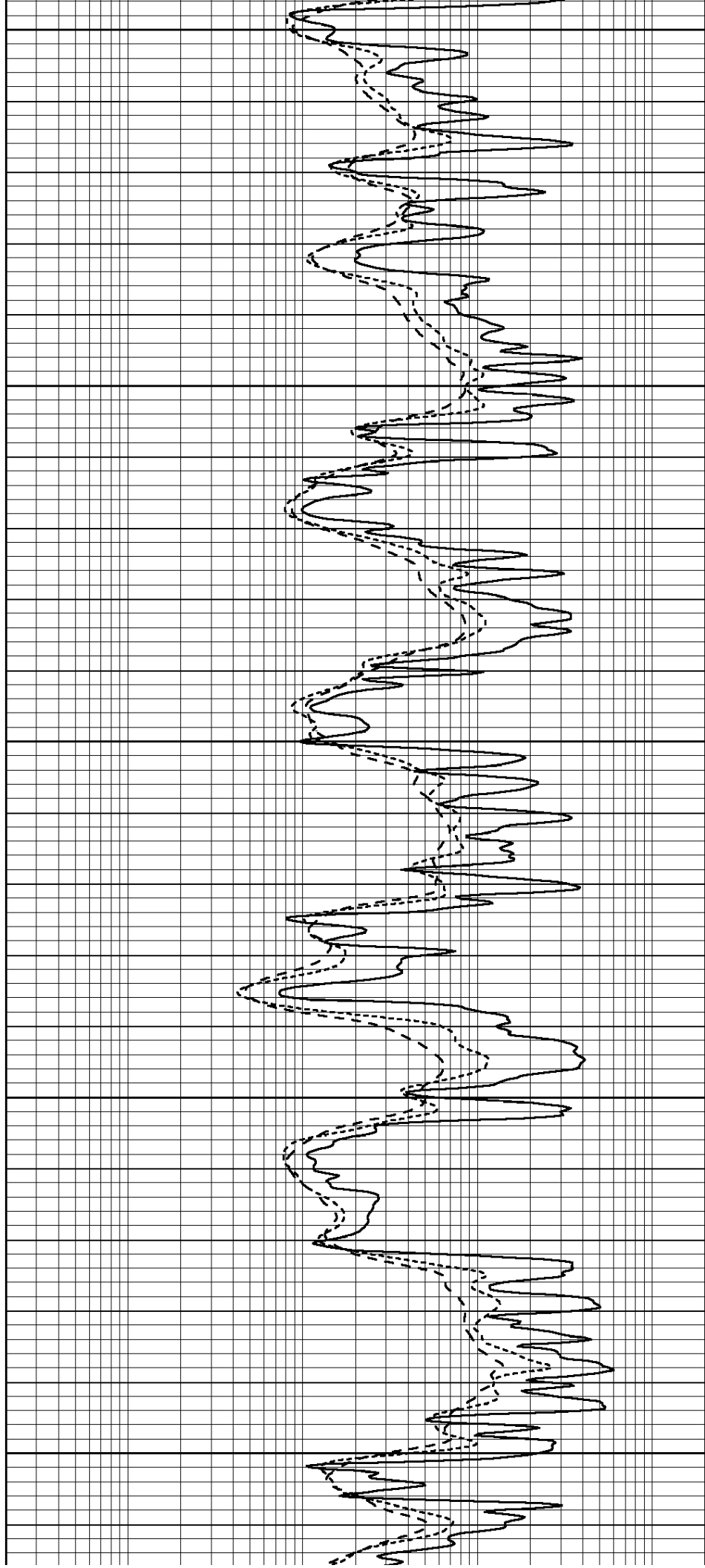
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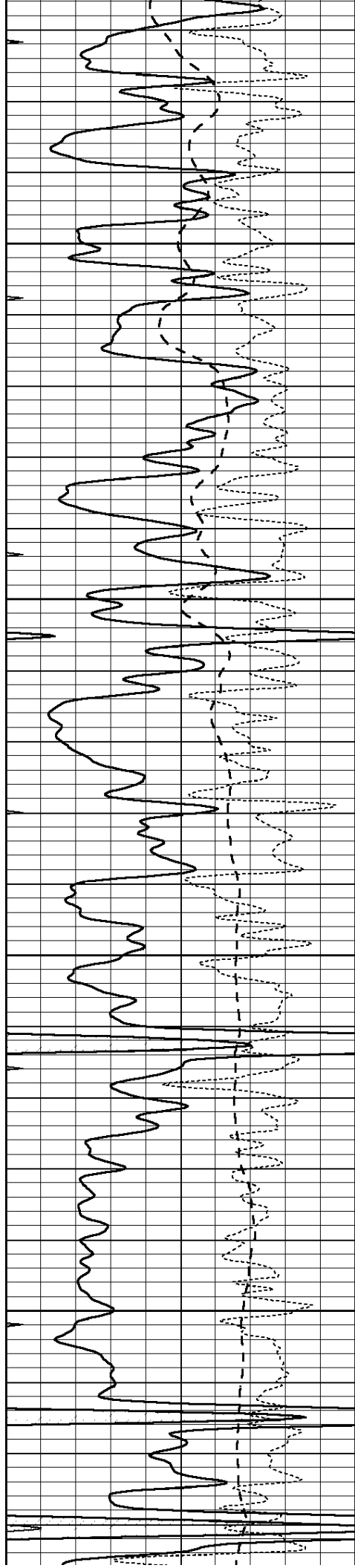
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4450

4500

4550



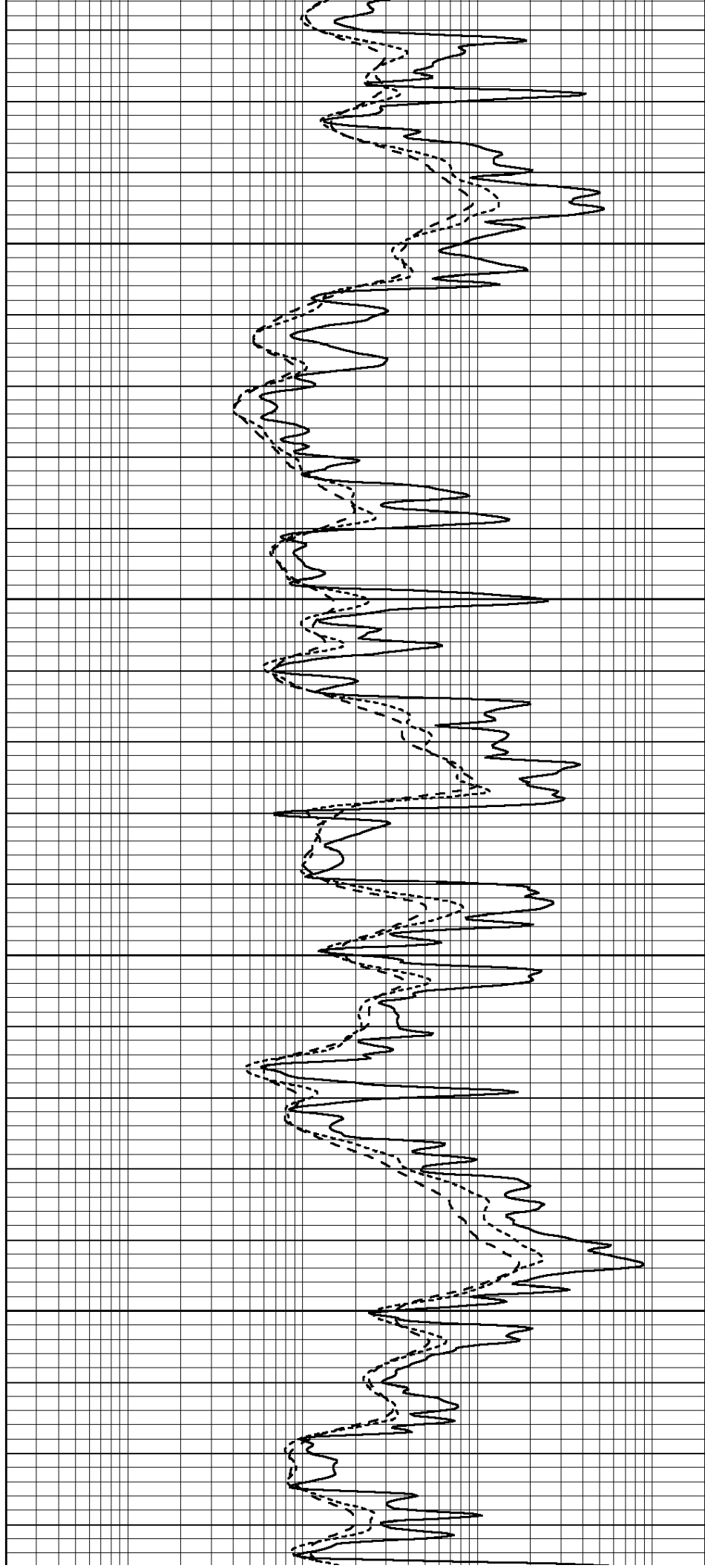


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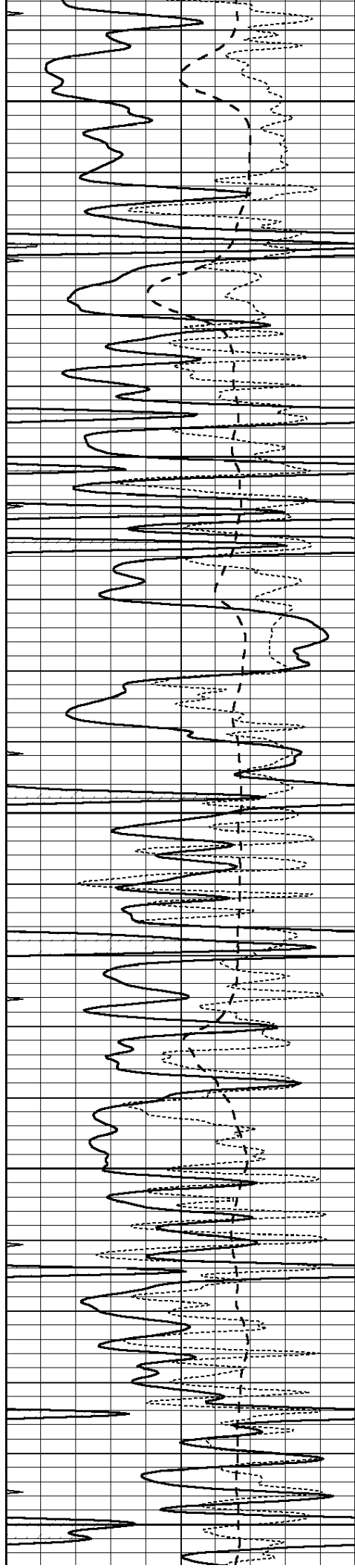
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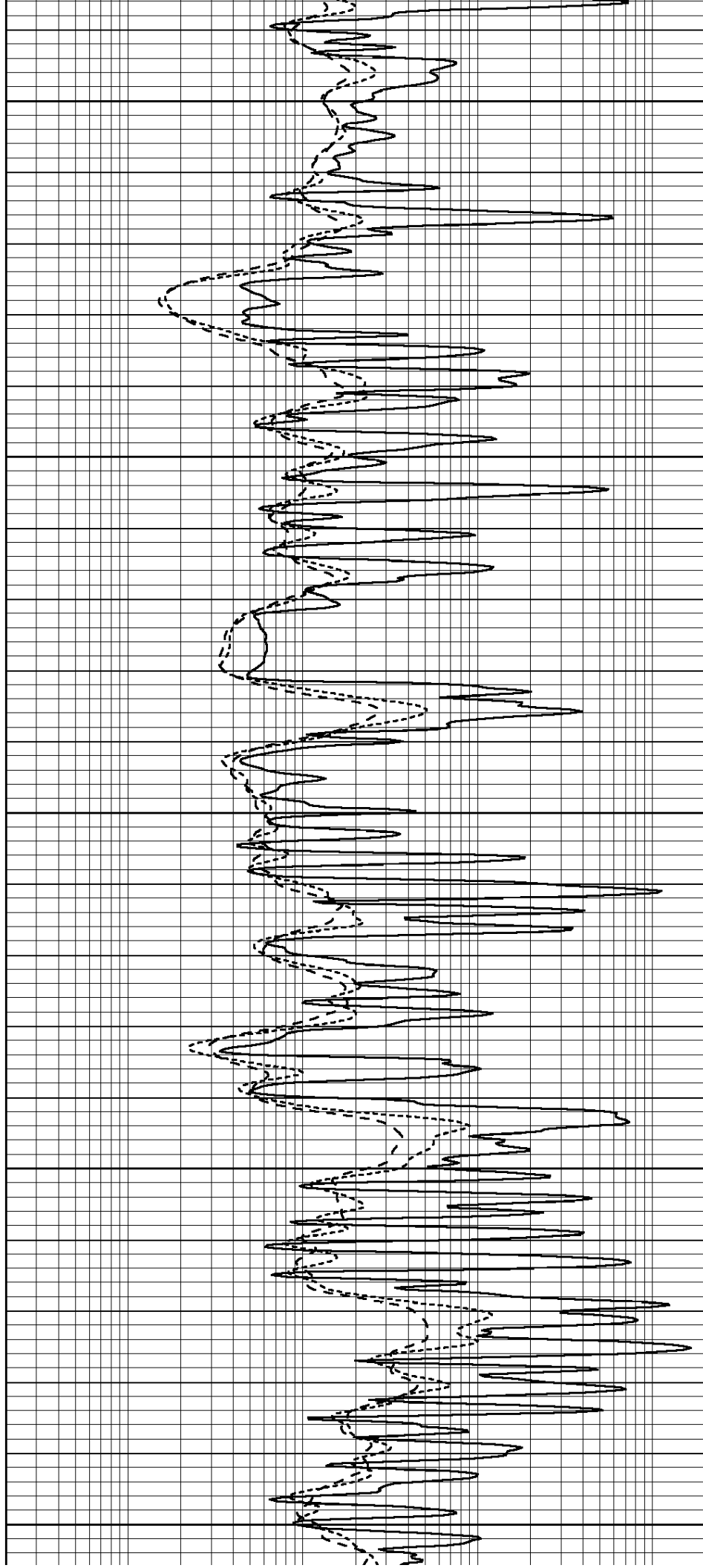
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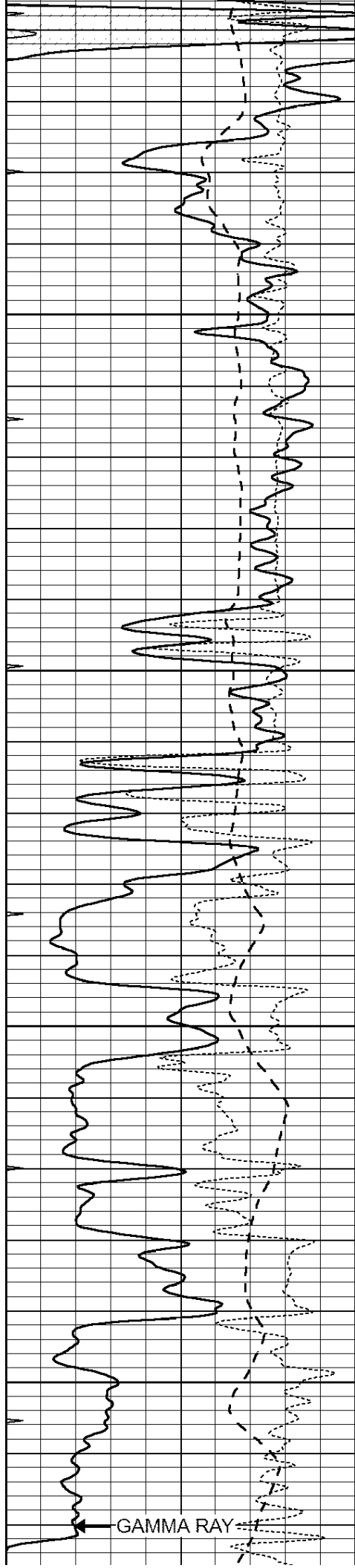
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5000



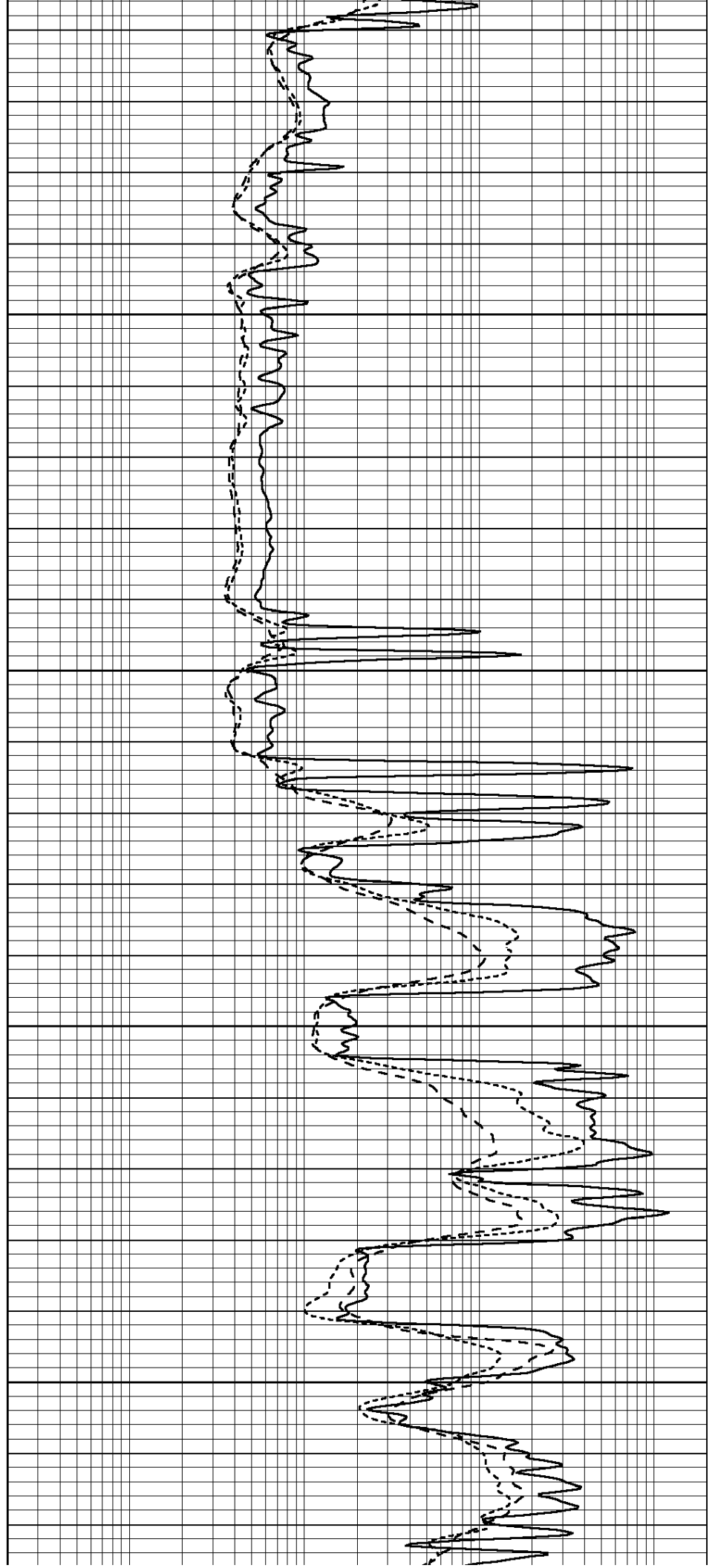


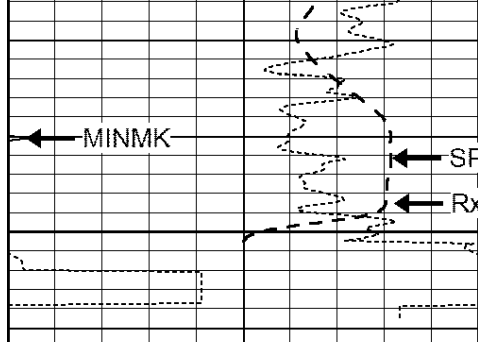
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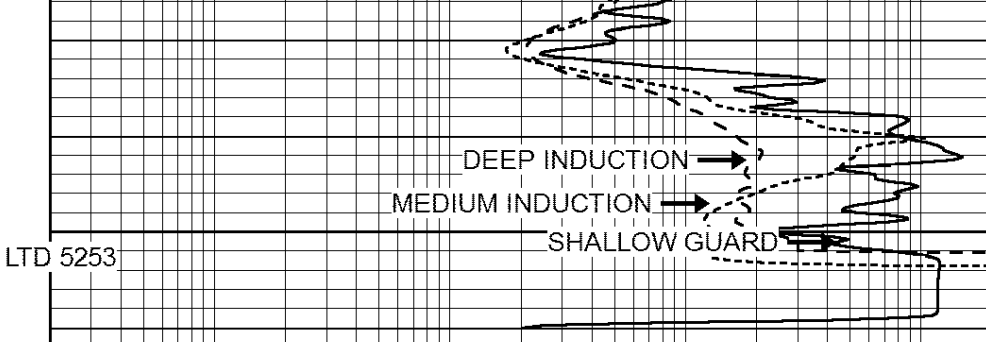
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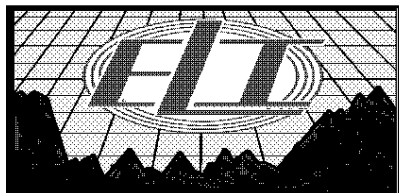




|      |                  |     |
|------|------------------|-----|
| 0    | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV)          | 100 |
| -250 | Rxo/Rt           | 50  |
| 0    | MINMK            | 20  |



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

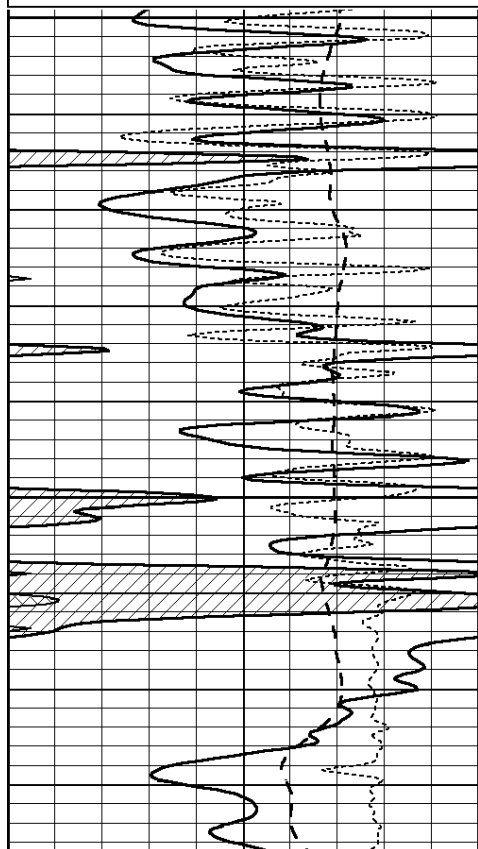


# REPEAT SECTION

Database File: 3683pe.db  
 Dataset Pathname: pass2.1  
 Presentation Format: \_dil  
 Dataset Creation: Tue May 21 10:52:50 2019 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

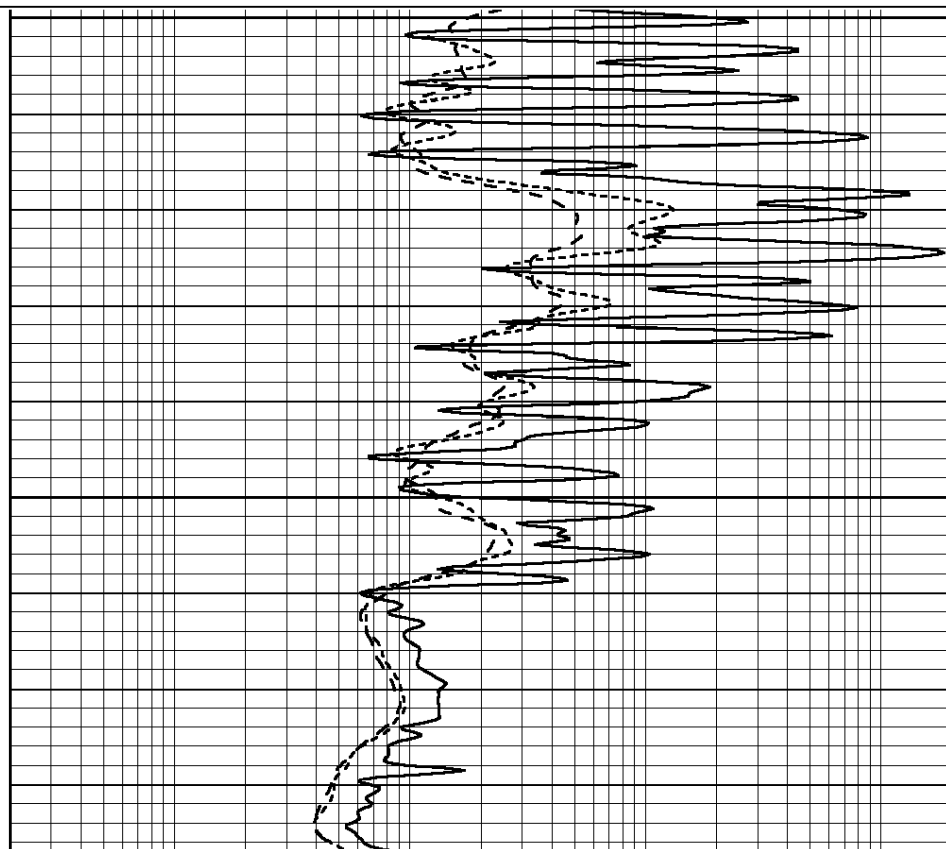
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|------|------------------|-----|
| 0    | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV)          | 100 |
| -250 | Rxo/Rt           | 50  |
| 0    | MINMK            | 20  |

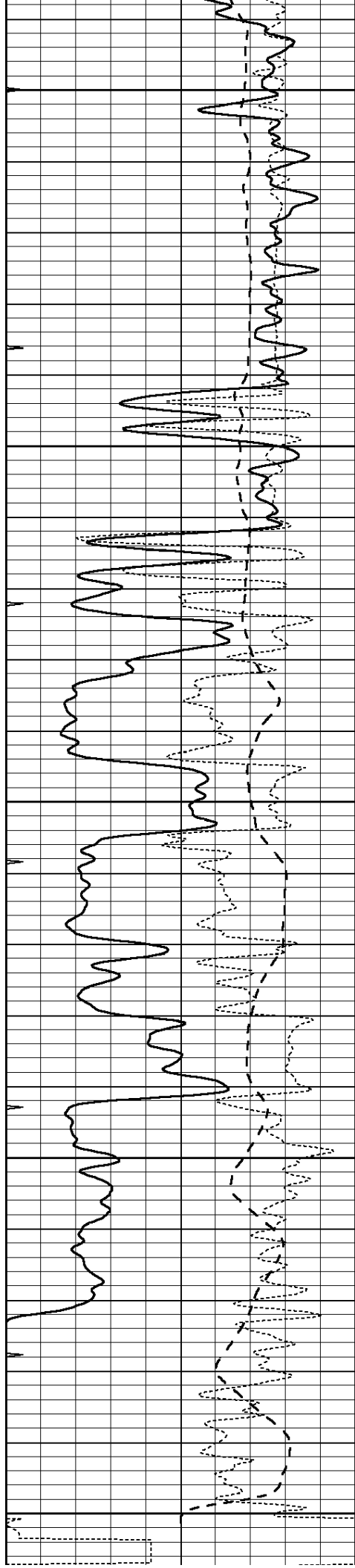
|     |                          |      |
|-----|--------------------------|------|
| 0.2 | SHALLOW GUARD (Ohm-m)    | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m)   | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |



4950

5000





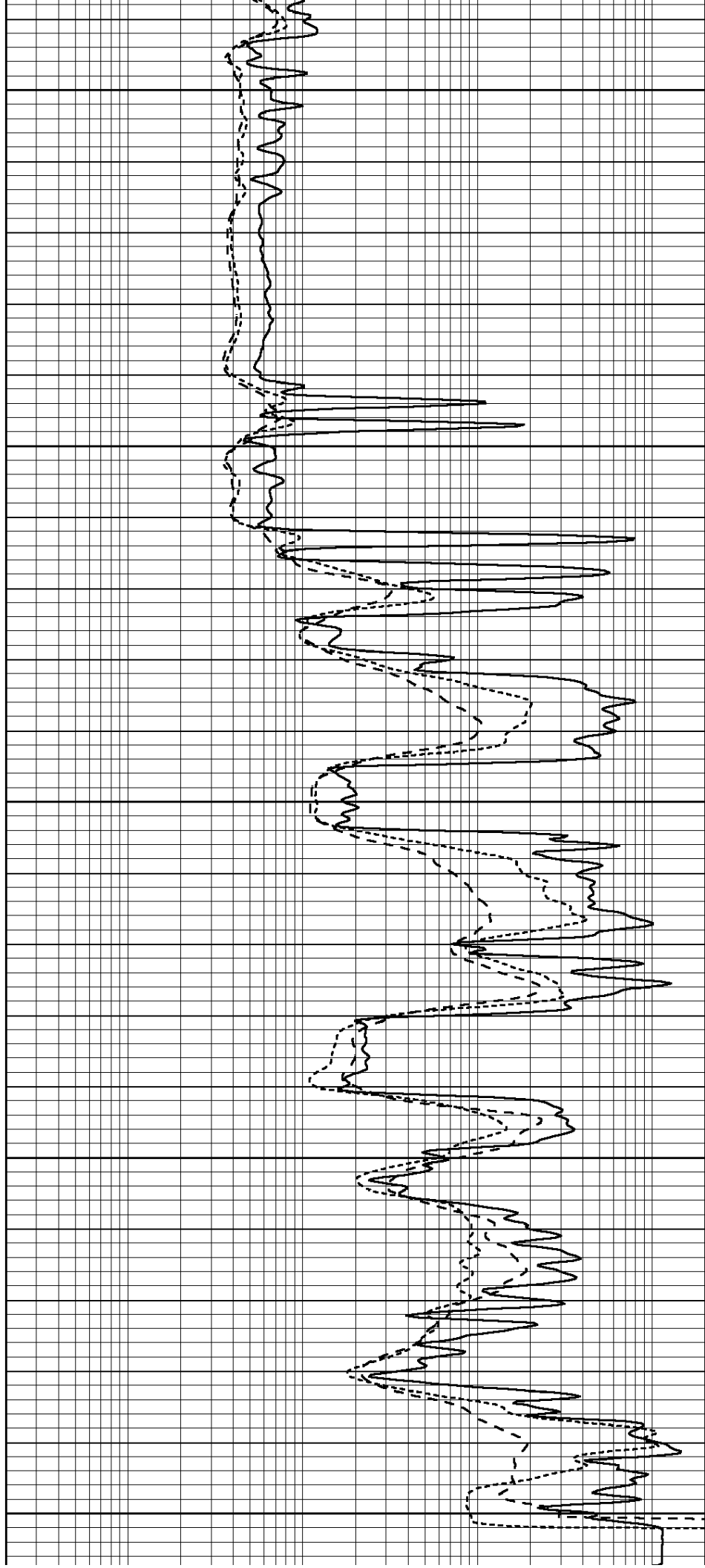
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5100

5150

5200

5250



|      |                  |     |
|------|------------------|-----|
| 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 |

|                    |                                                    |
|--------------------|----------------------------------------------------|
| Calibration Report |                                                    |
| Database File:     | 3683pe.db                                          |
| Dataset Pathname:  | pass2.1                                            |
| Dataset Creation:  | Tue May 21 10:52:50 2019 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 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 |      |

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Compensated Neutron Calibration Report

|                |    |
|----------------|----|
| Serial Number: | 6I |
| 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      | pu       | pu     |  |
|                         | Long Space  | cps      |          |        |  |
| 2)                      | Short Space | cps      | pu       |        |  |
|                         | Long Space  | cps      |          |        |  |
| 3)                      | Short Space | cps      | pu       |        |  |
|                         | Long Space  | cps      |          |        |  |

| POST-SURVEY VERIFICATION |             |          |          |        |
|--------------------------|-------------|----------|----------|--------|
|                          | Detector    | Readings | Measured | Target |
| 1)                       | Short Space | cps      |          |        |
|                          | Long Space  | cps      | pu       | pu     |

|    |             |     |    |    |
|----|-------------|-----|----|----|
|    | 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:          | Mon Sep 10 14:29:23 2018 |          |  |
| Calibrator Value:   | 150.0                    | GAPI     |  |
| Background Reading: | 0.0                      | cps      |  |
| Calibrator Reading: | 276.0                    | cps      |  |
| Sensitivity:        | 0.5500                   | GAPI/cps |  |