



GAMMA

TEMPERATURE LOG

1:200

COMPANY

LAKES OIL N.L.

WELL

BOOLA BOOLA 2

FIELD

WILDCAT

PROVINCE/COUNTRY

VICTORIA

COUNTRY/STATE

AUSTRALIA

LOCATION

FIELD PRINT

LSD

SEC

TWP

RGE

Other Services

API Number

Permit Number PEP 166

Permanent Datum L , Elevation 0.0 metres

Log Measured From KB @ above Permanent Datum

Drilling Measured From KB

Elevations:

KB

DF

metres

Date

2-JUL-2007

Run Number

Depth Driller

Depth Logger

First Reading

Last Reading

Casing Driller

Casing Logger

Bit Size

8.50

inches

Hole Fluid Type

KCL

Density / Viscosity

1.27 g/cc

12.00 CP

PH / Fluid Loss

8.00

16.00 ml/30Min

Sample Source

SUCTION

Rrr @ Measured Temp

0.62 @ 25.0 ohm-m

Rrrf @ Measured Temp

0.46 @ 25.0 ohm-m

Rrrc @ Measured Temp

1.07 @ 25.0 ohm-m

Source Rmf / Rmc

MEAS

MEAS

Rrr @ BHT

Time Since Circulation

Max Recorded Temp

Equipment Name

HSU-2

SALE

Recorded By

R L TENCH

Witnessed By

T OBRIEN

ON BOTTOM

Last Line

BOREHOLE RECORD

Last Edited: 2-JUL-2007 21:51

Bit Size
inches

8.500

Depth From
metres

570.00

Depth To
metres

1870.00

CASING RECORD

Type

Size
inches

9.625

Depth From
metres

0.00

Shoe Depth
metres

570.00

Weight
pounds/ft

0.00

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 interpretations, and we shall not, except in the case of gross or wilful 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 in our price schedule.

MAIN 1: 200

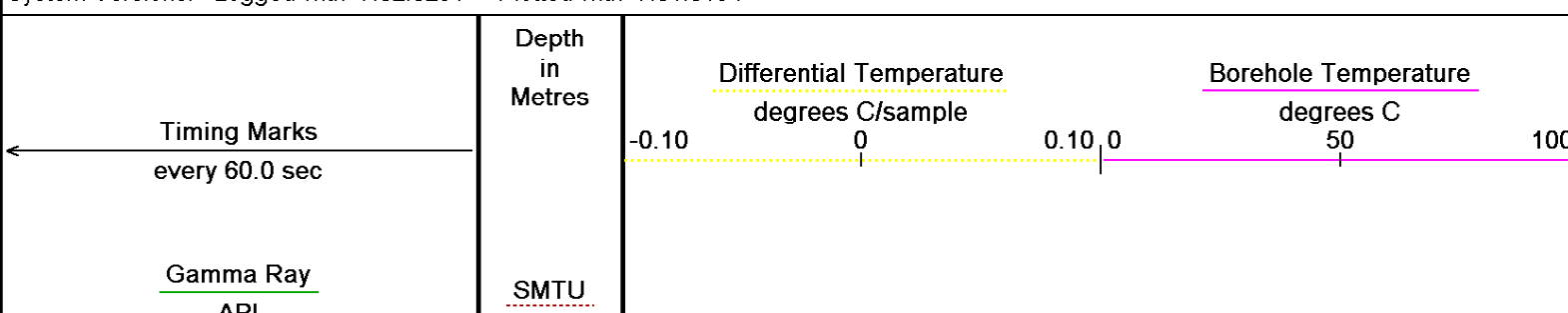
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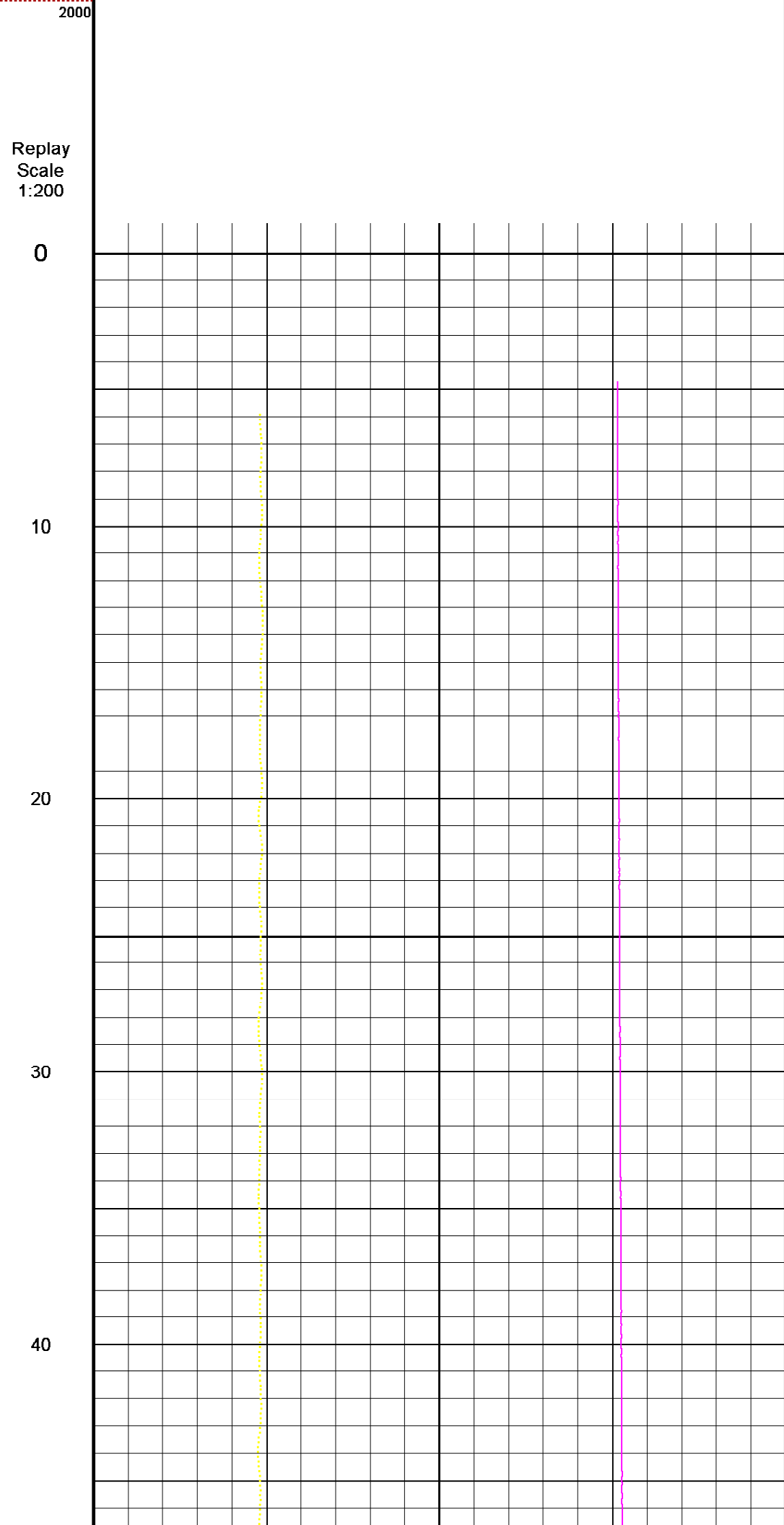
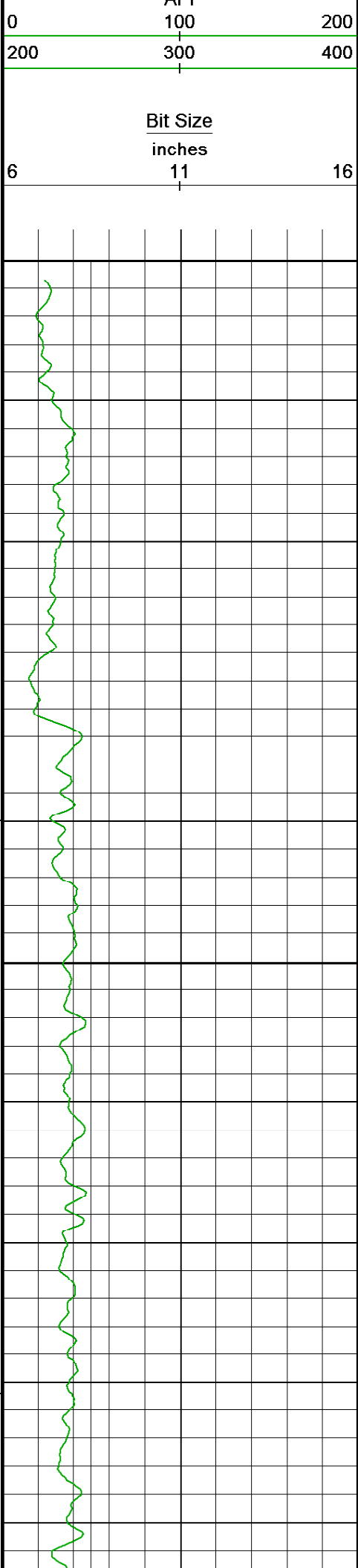
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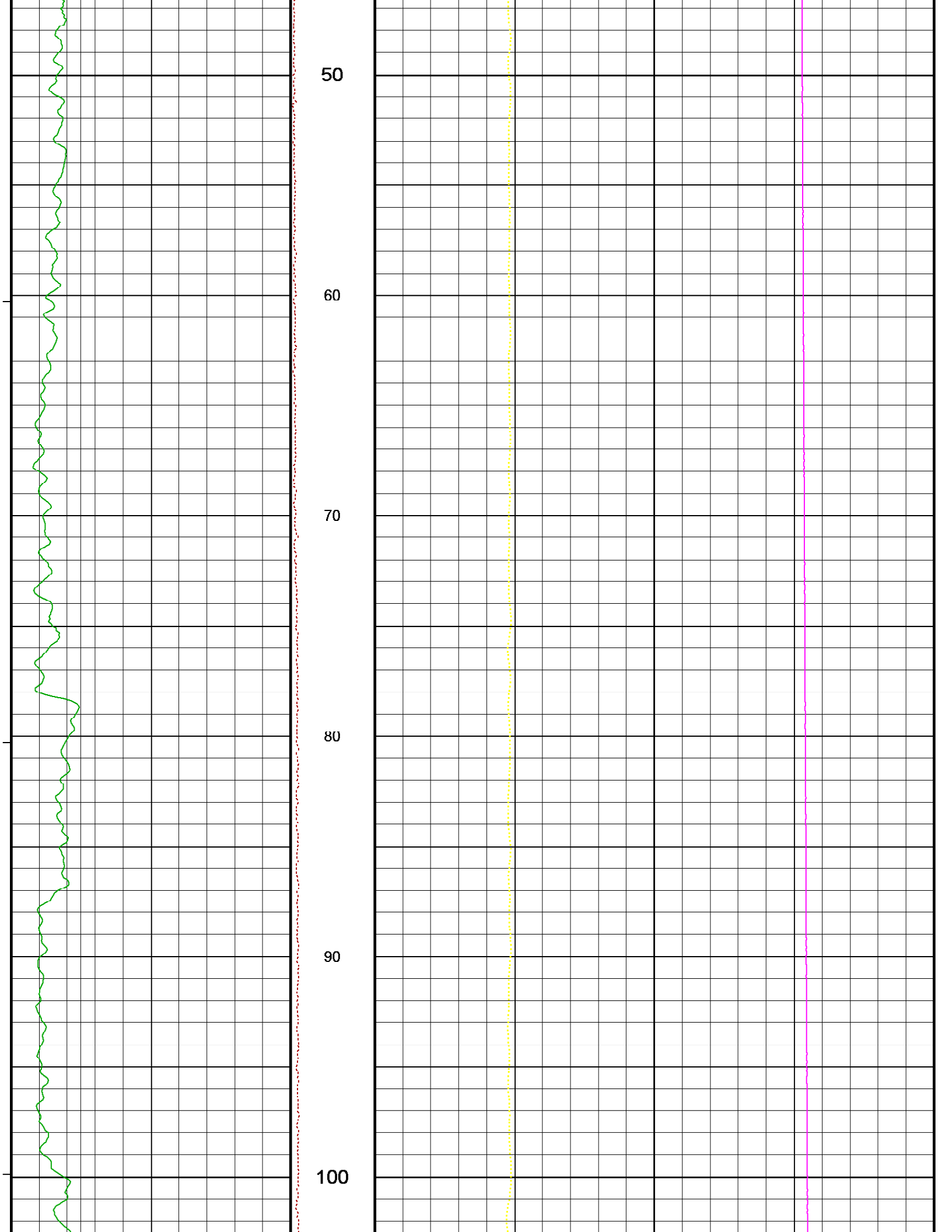
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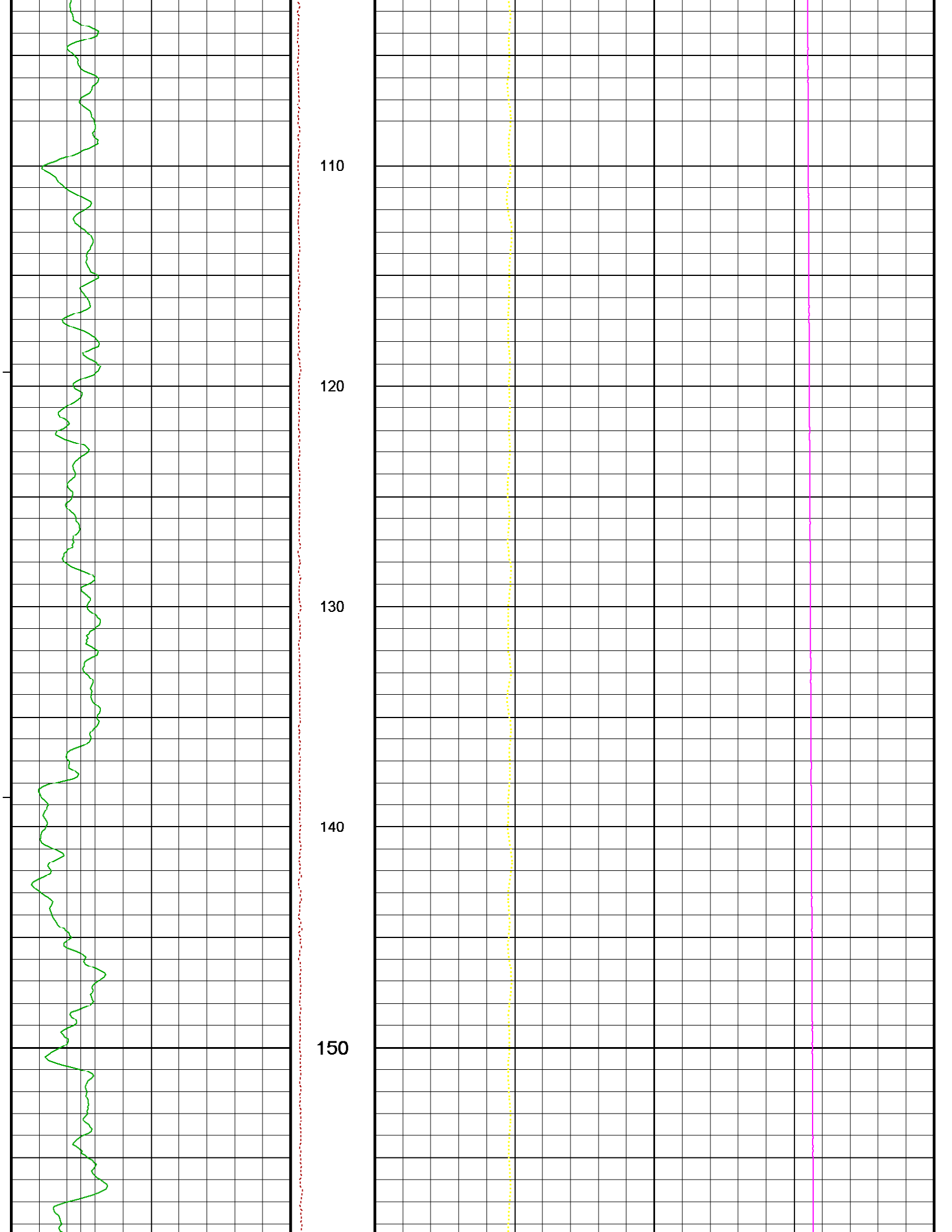
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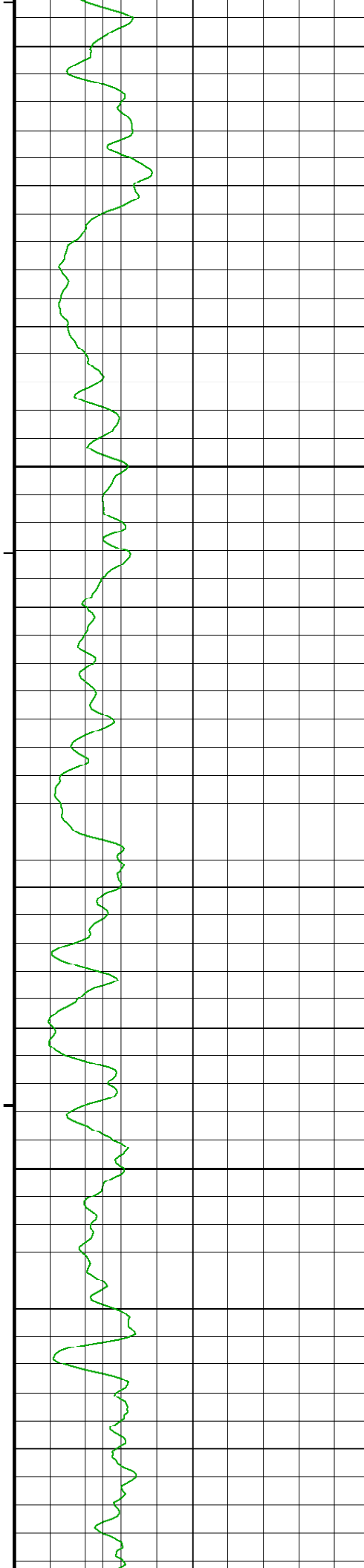
System Versions: Logged with 7.02.0251 Plotted with 7.01.0194











160

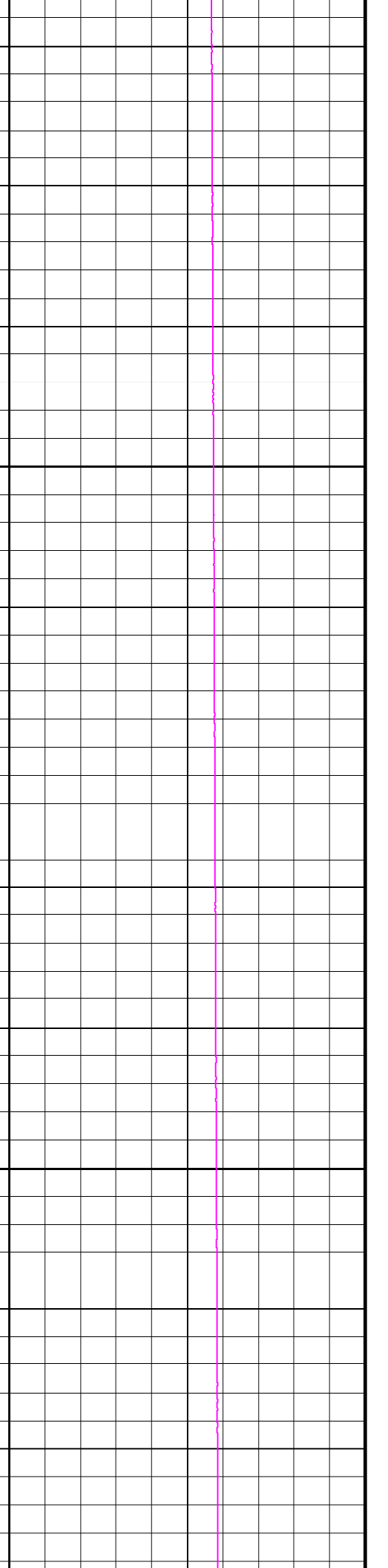
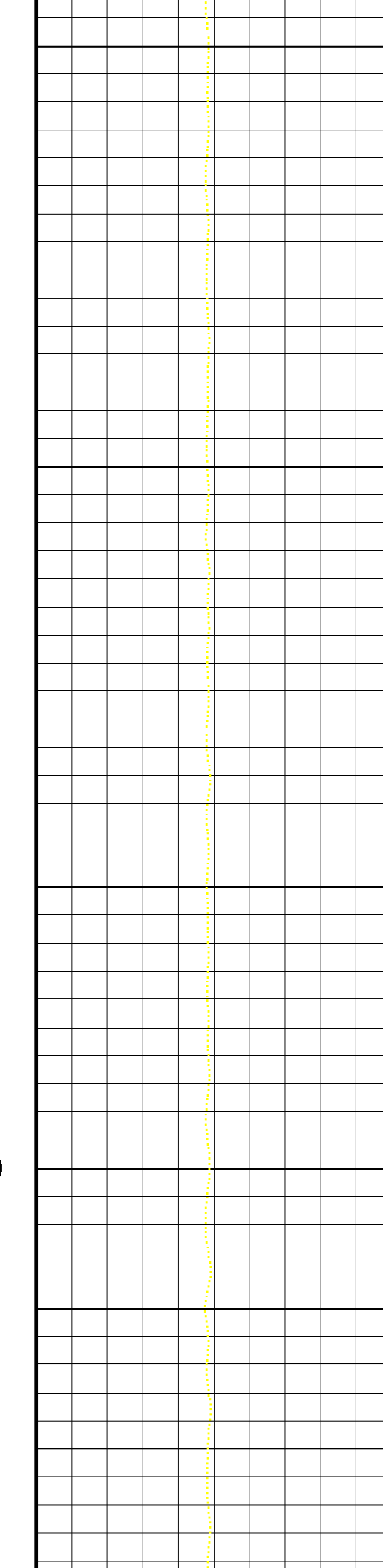
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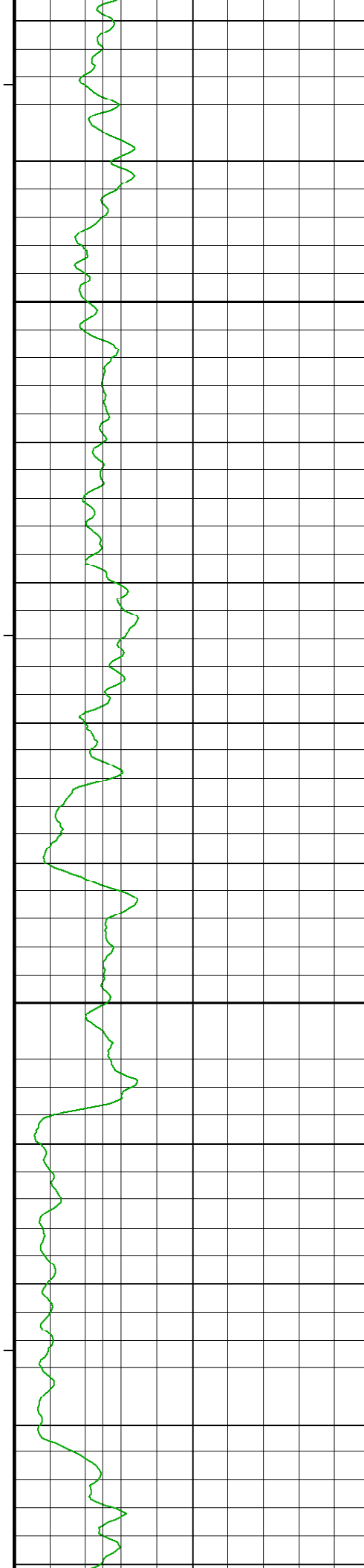
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190

200

210





220

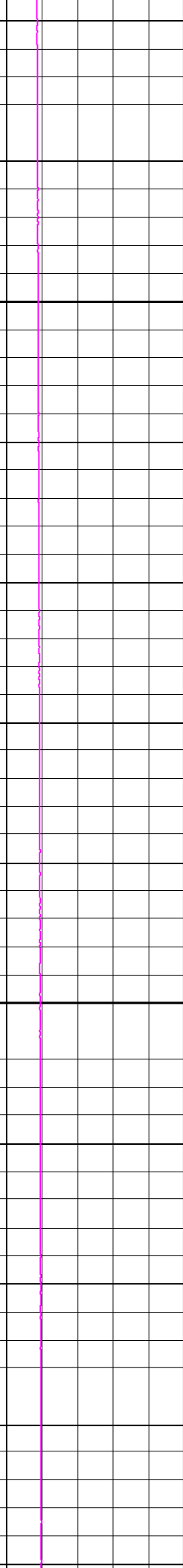
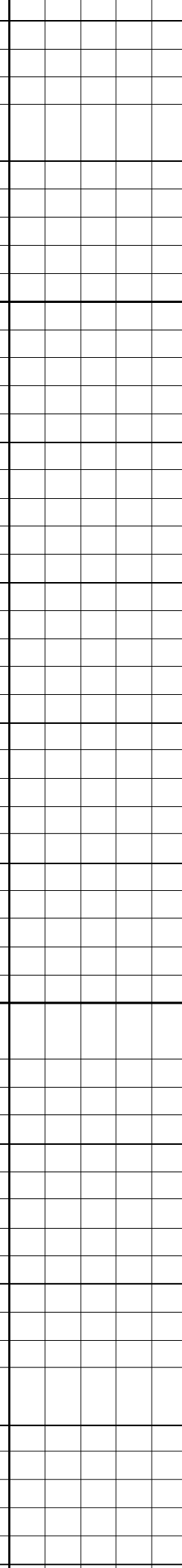
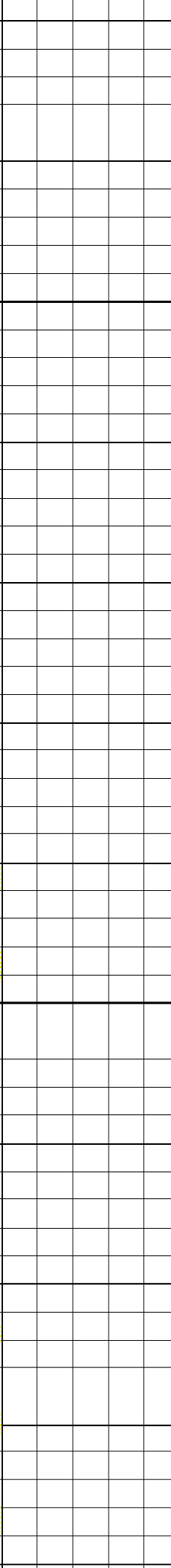
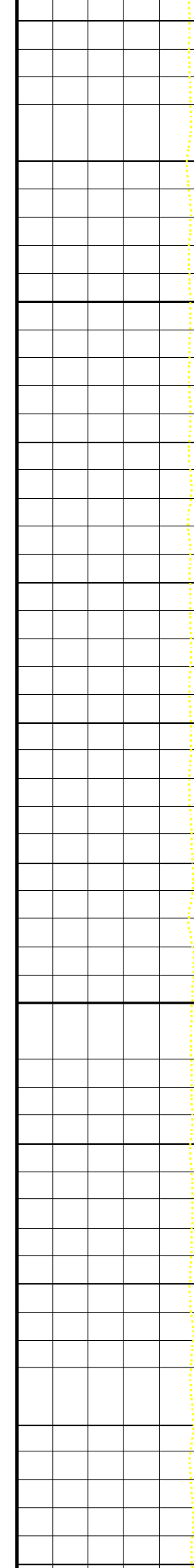
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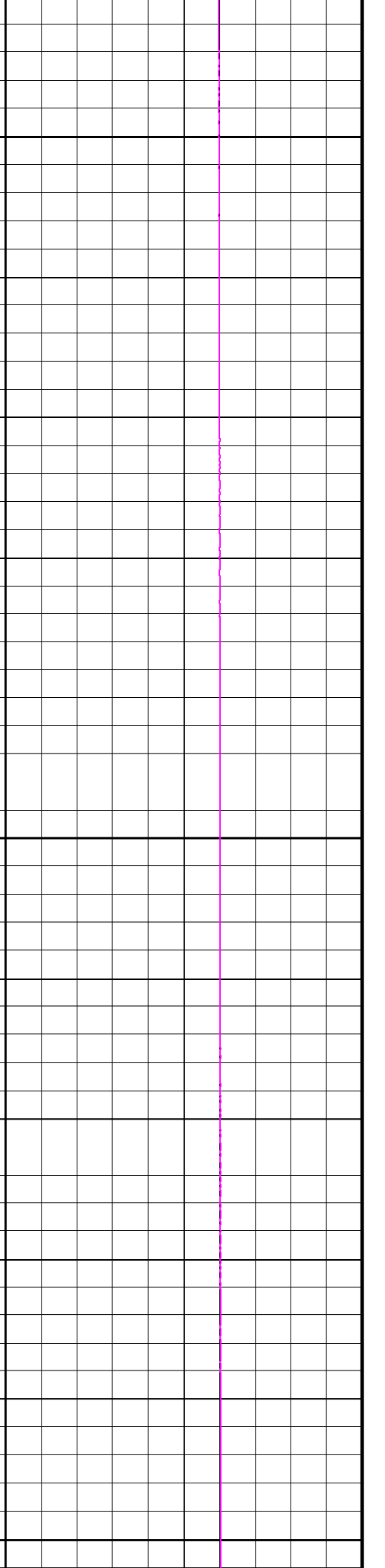
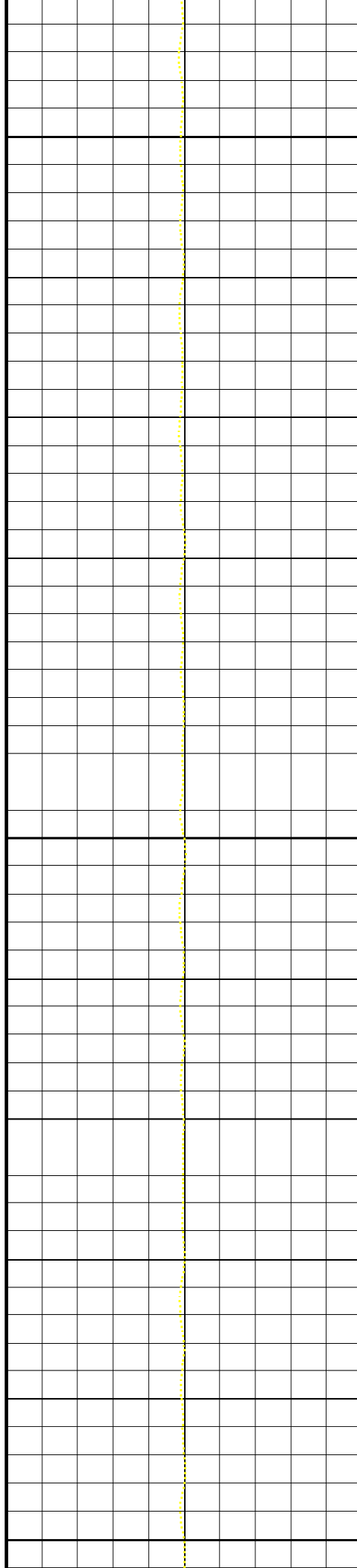
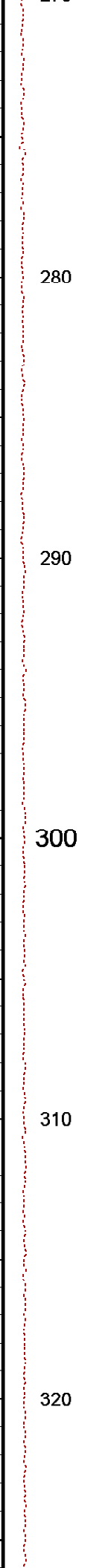
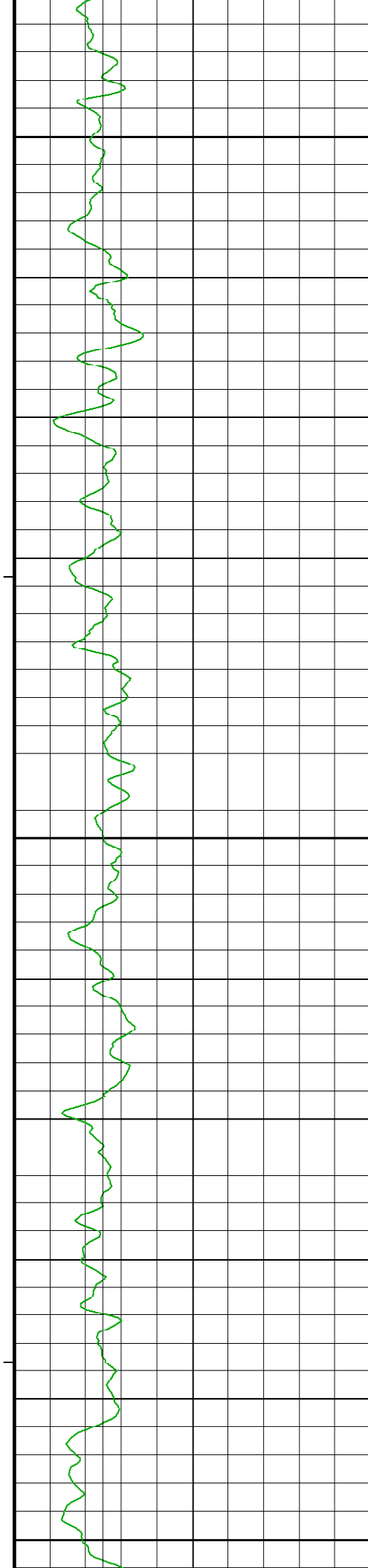
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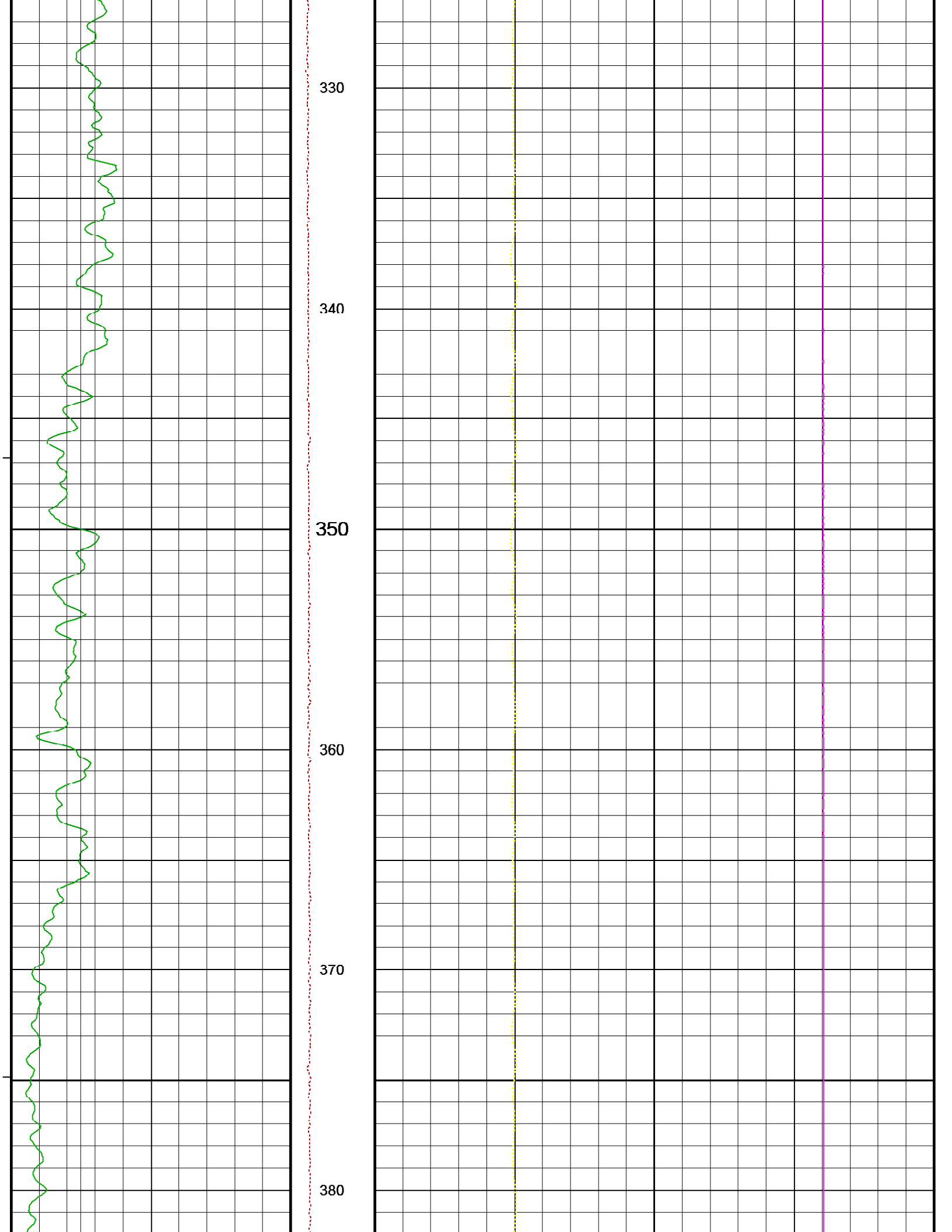
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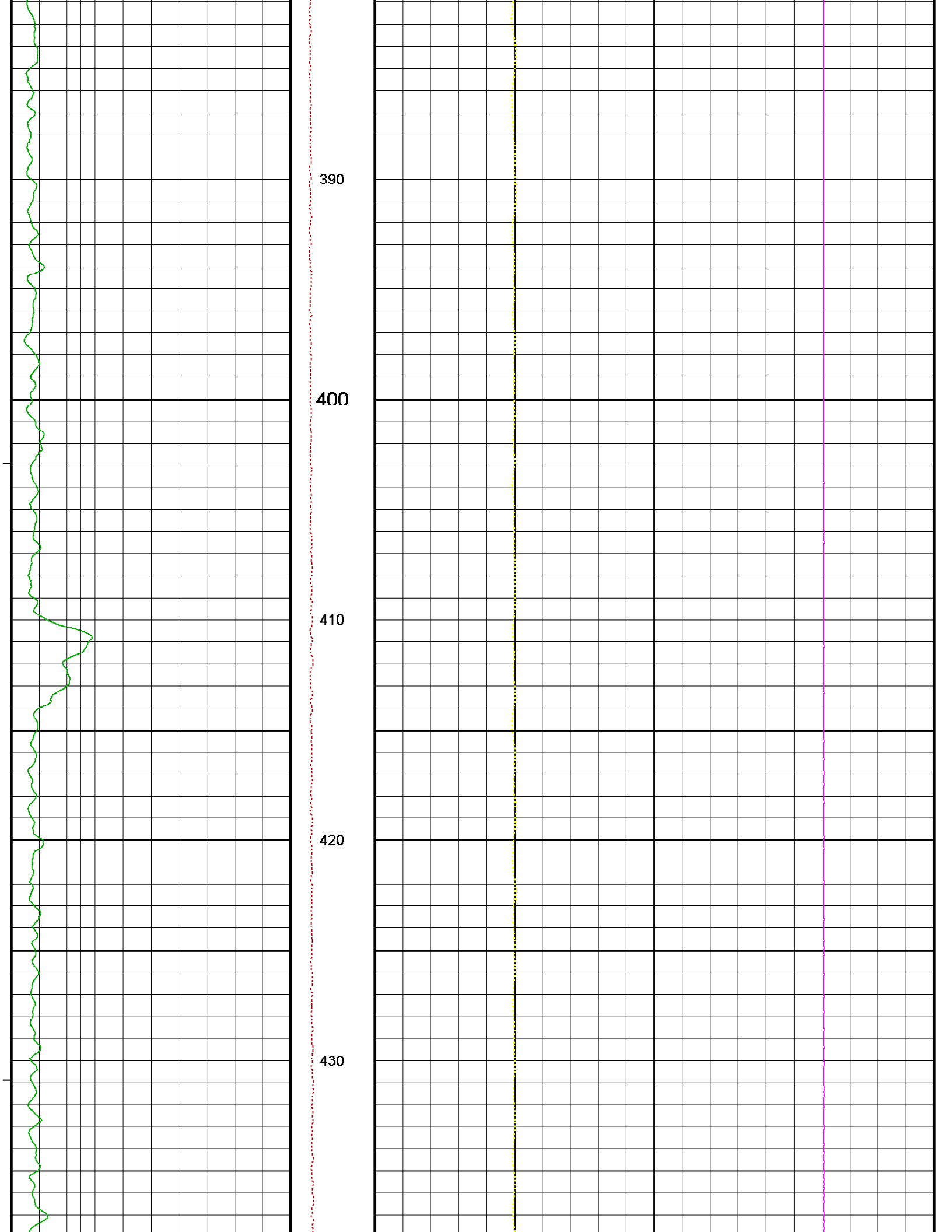
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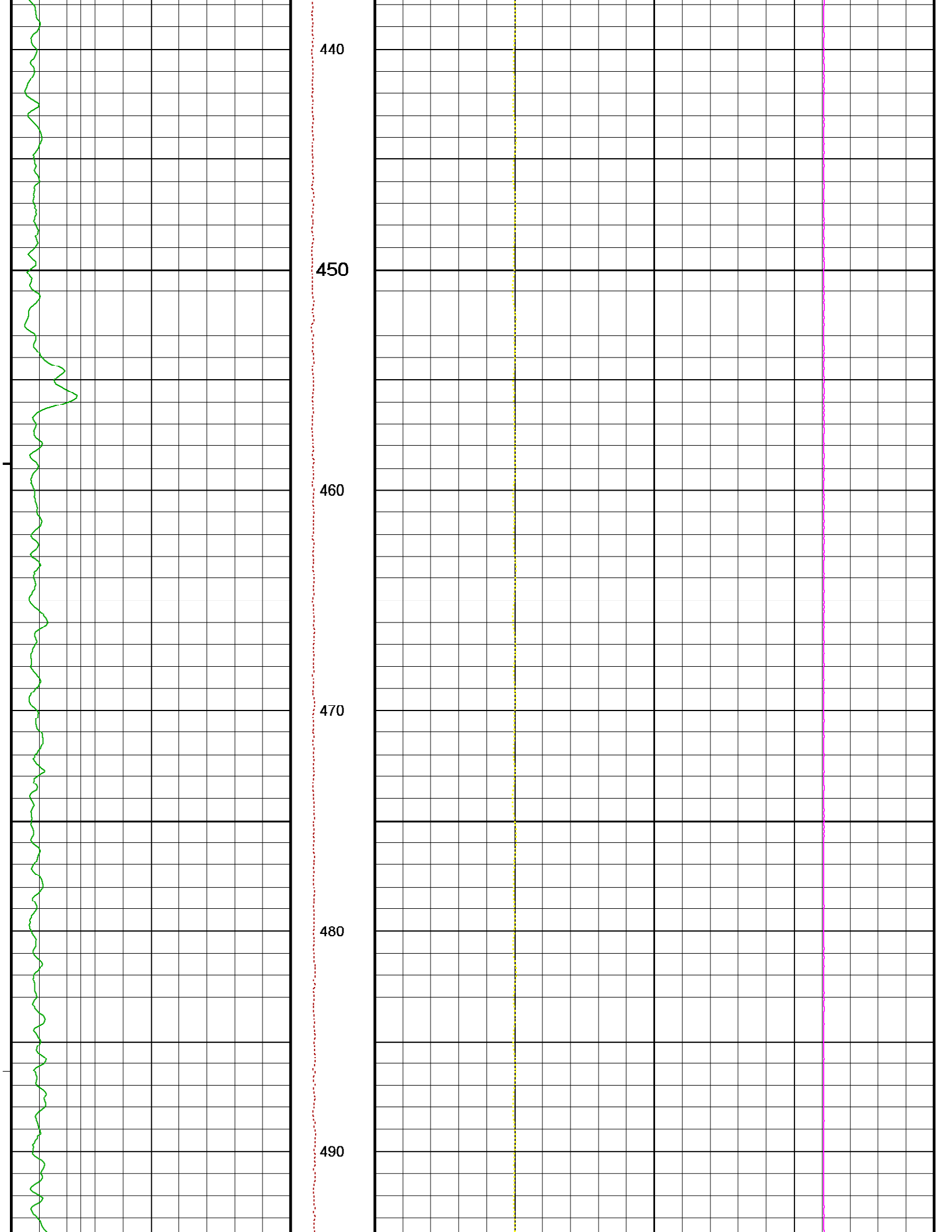
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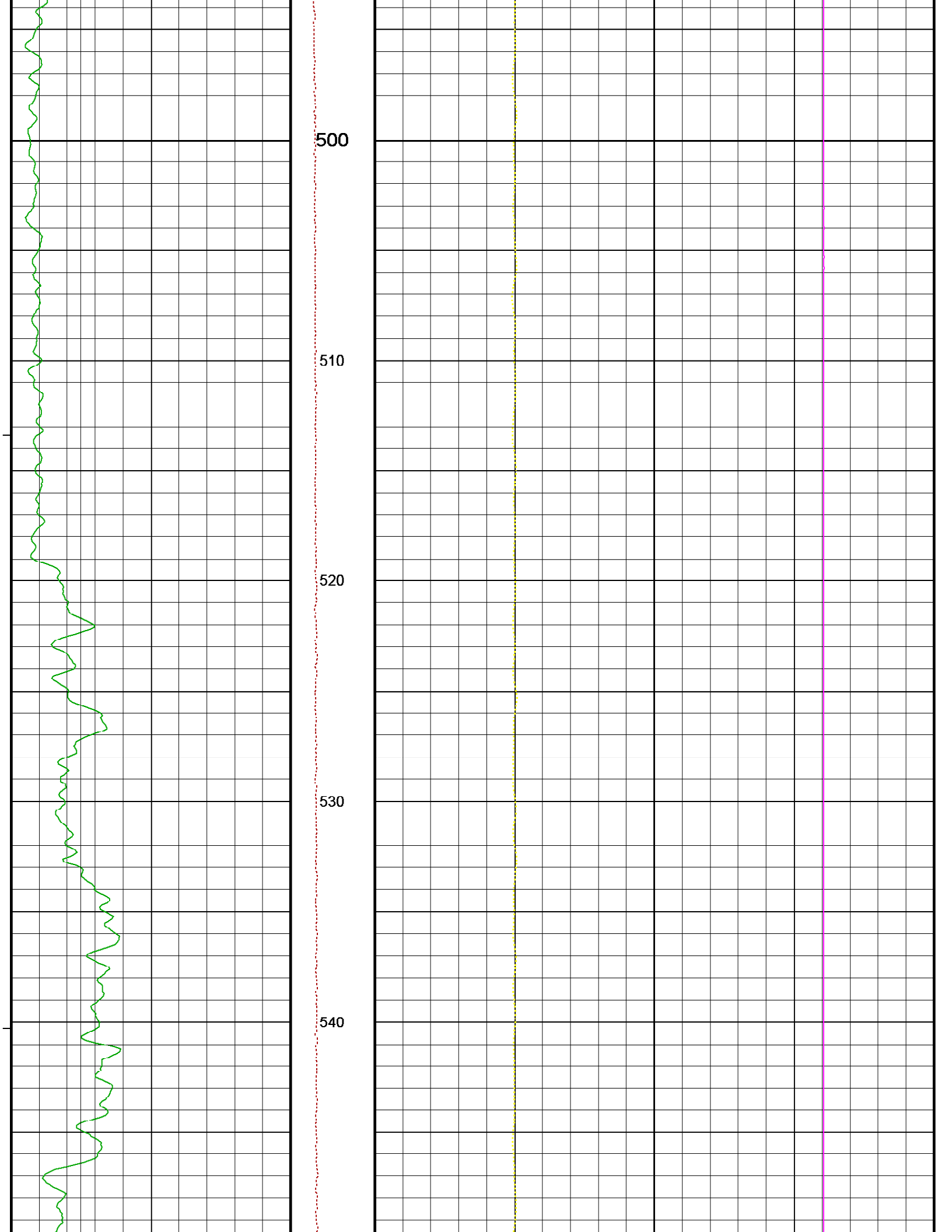


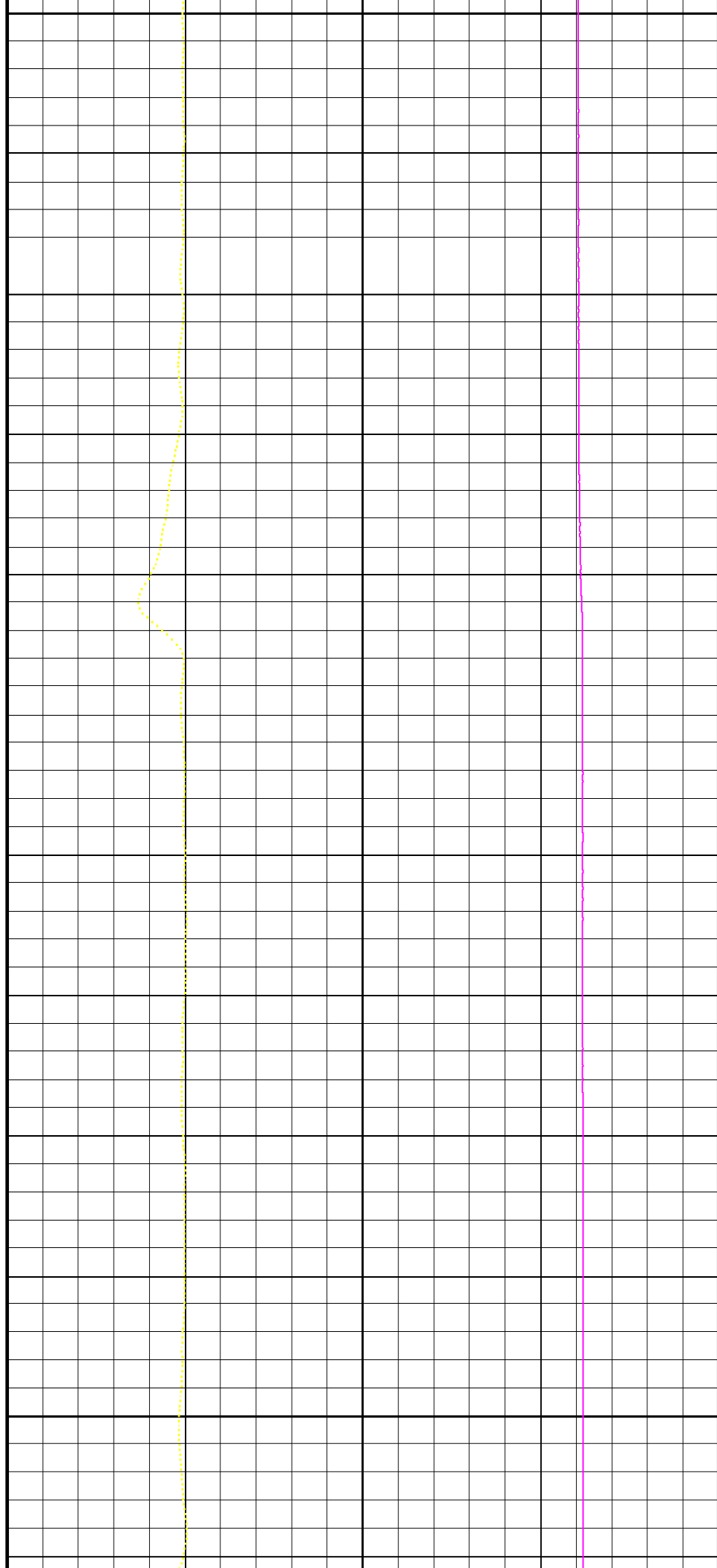
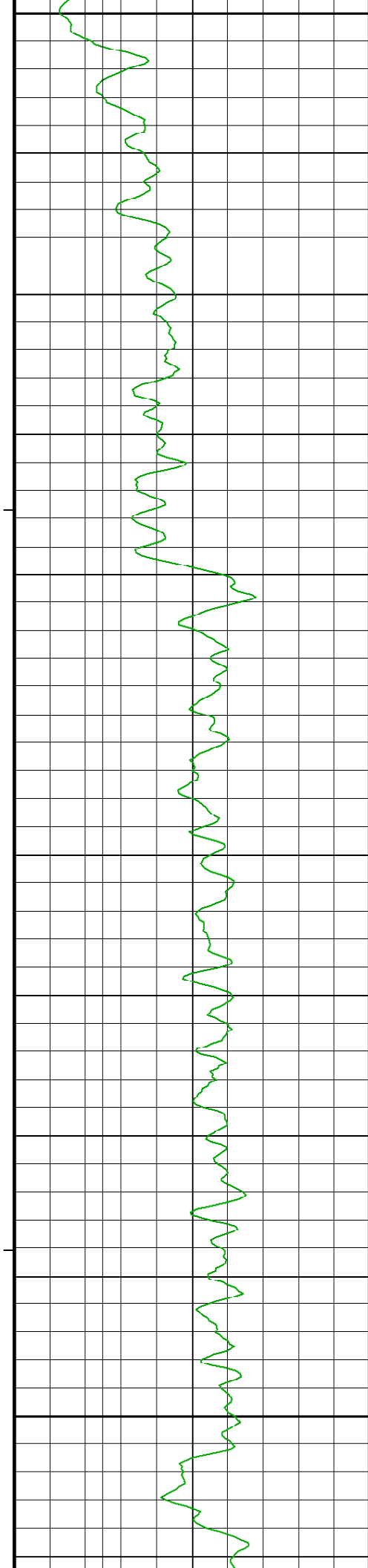


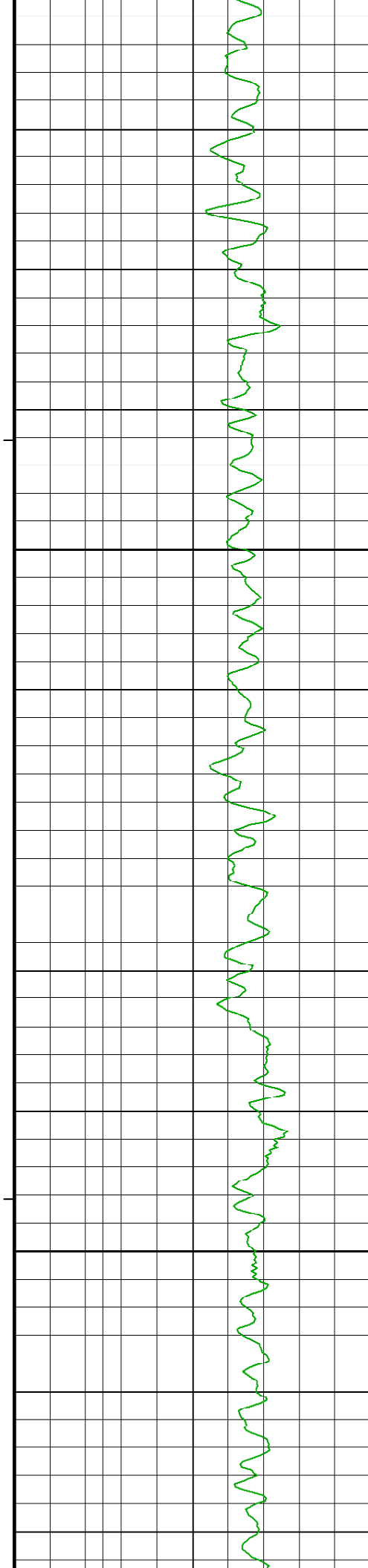












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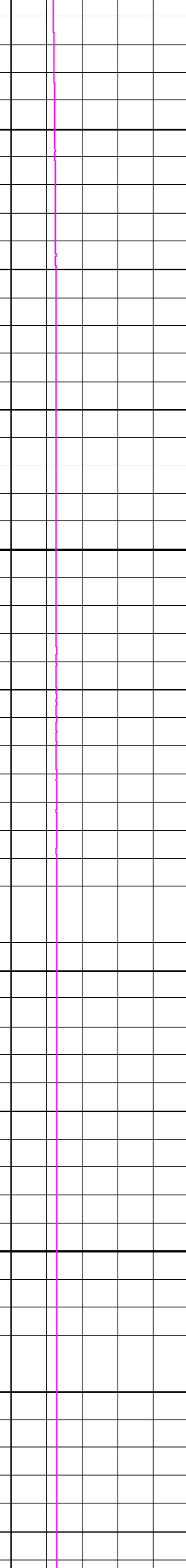
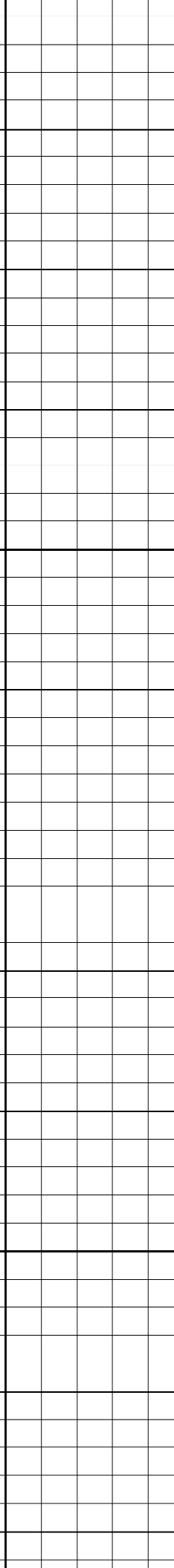
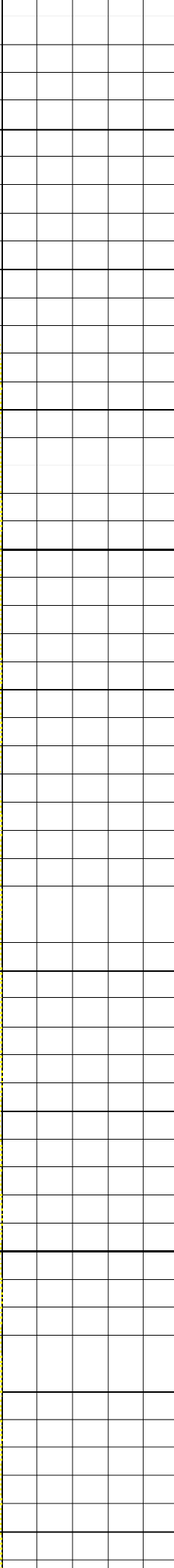
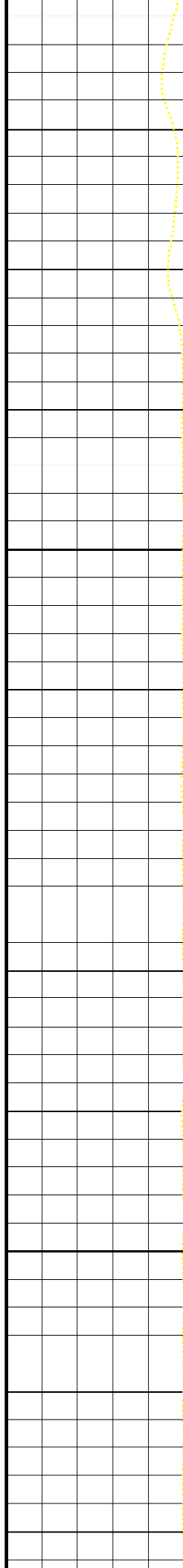
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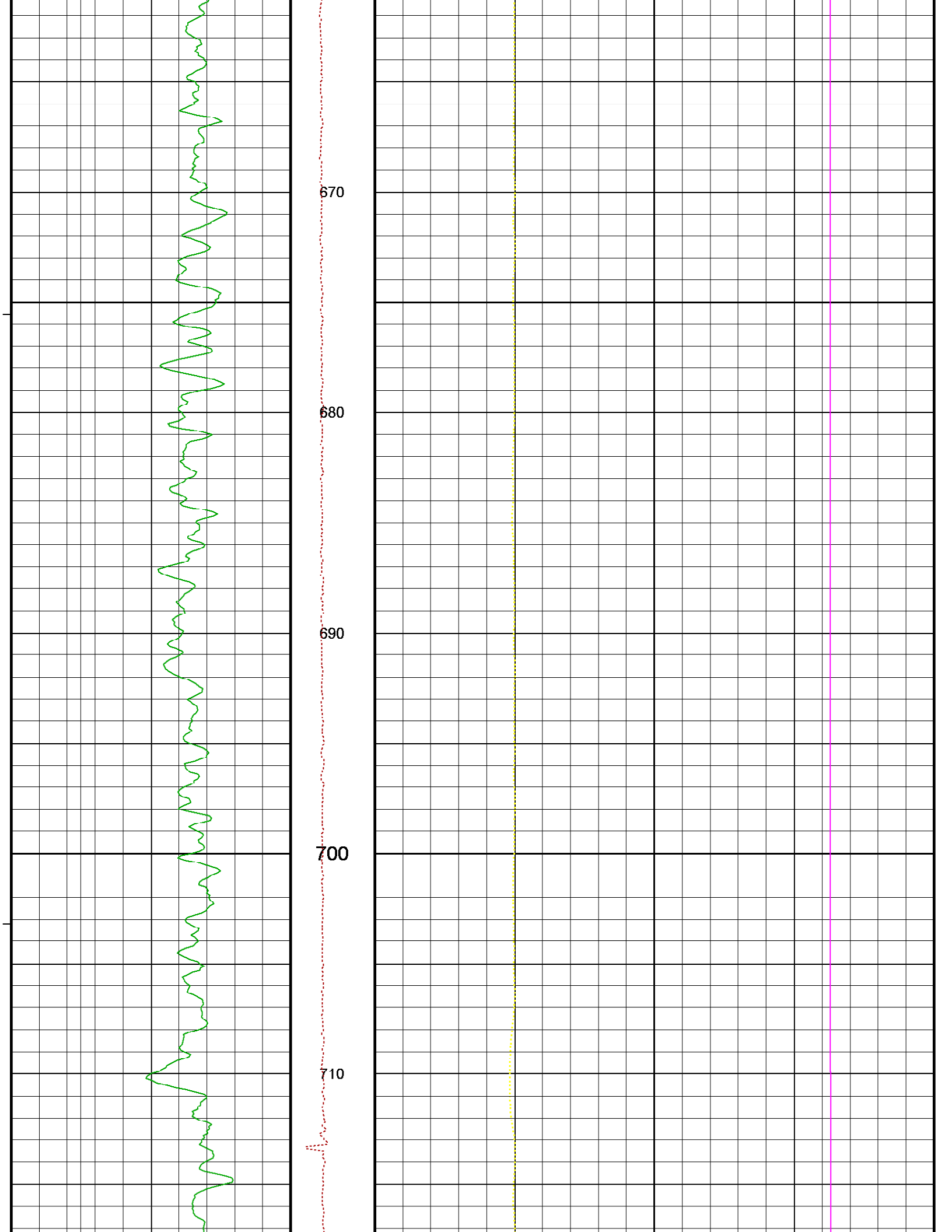
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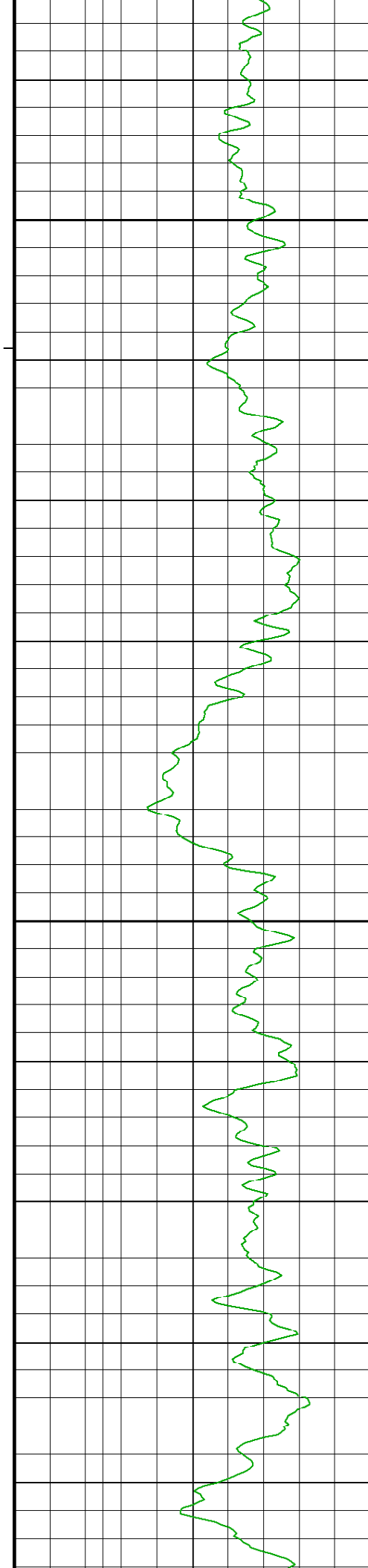
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660







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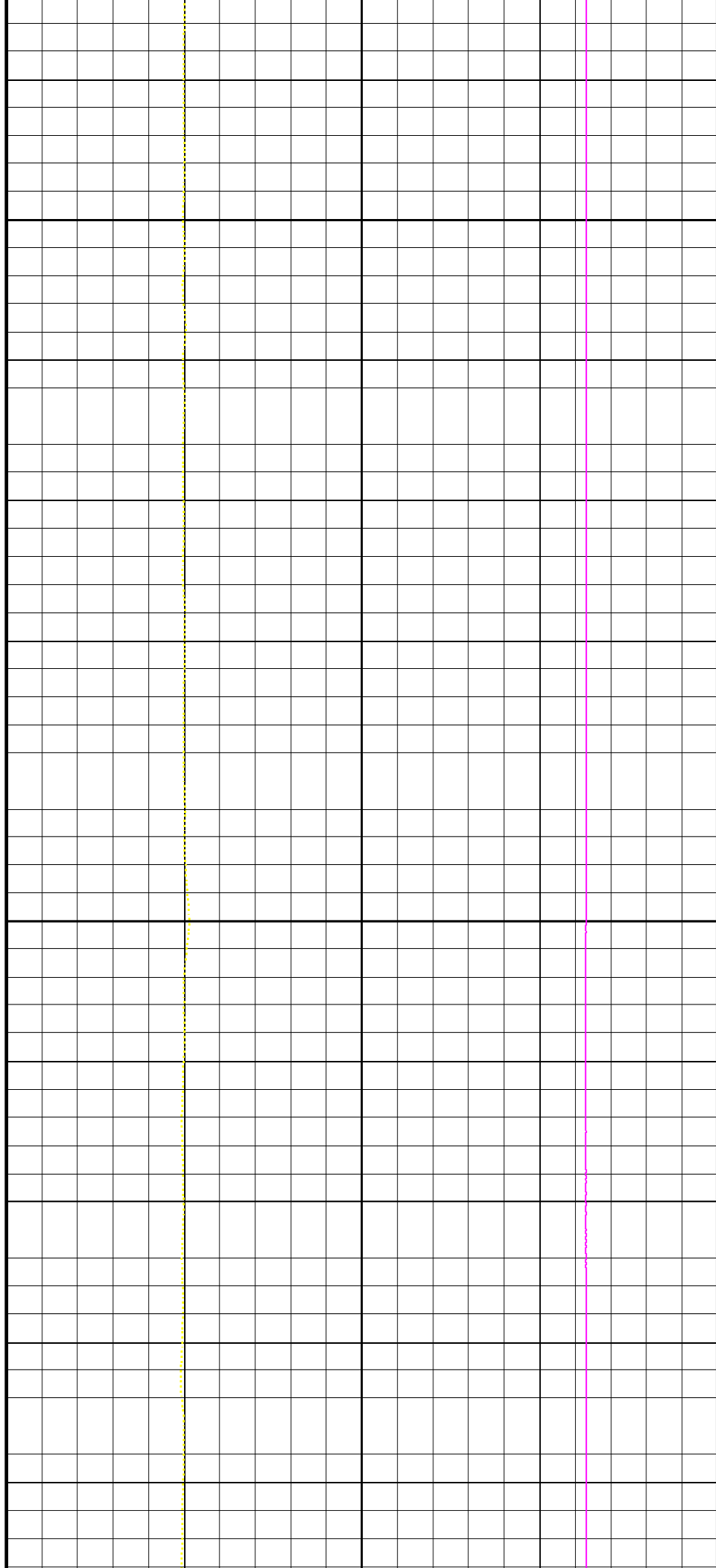
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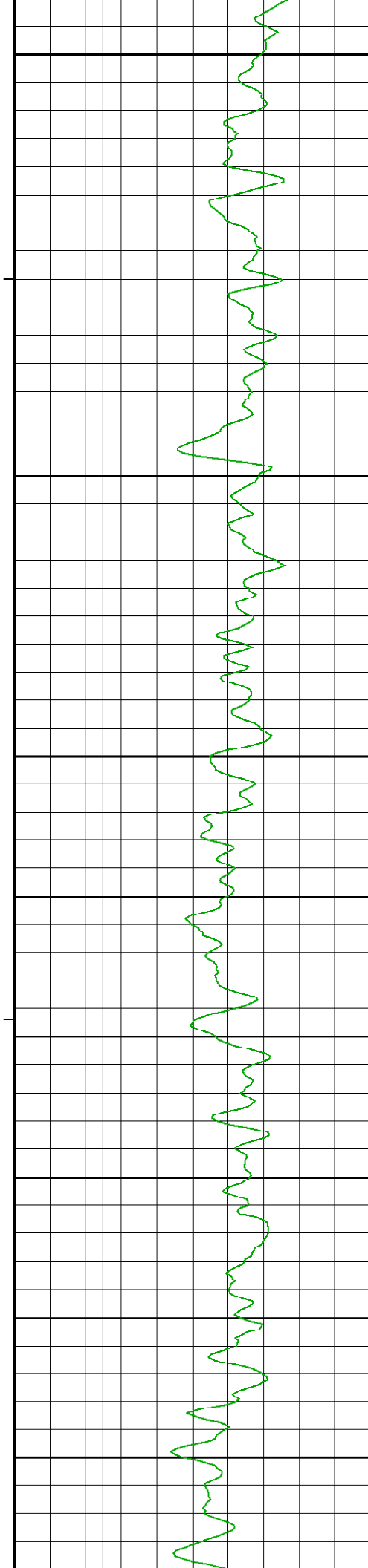
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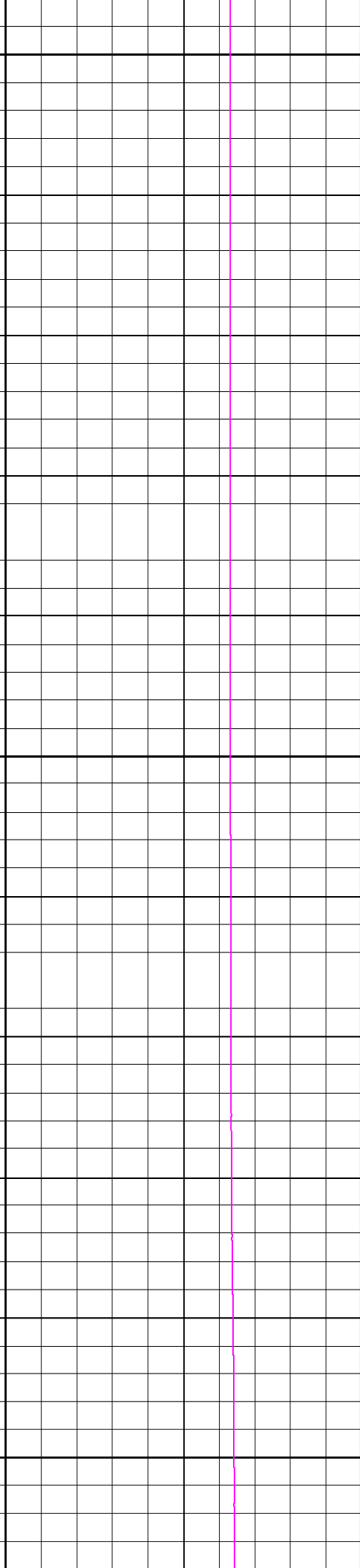
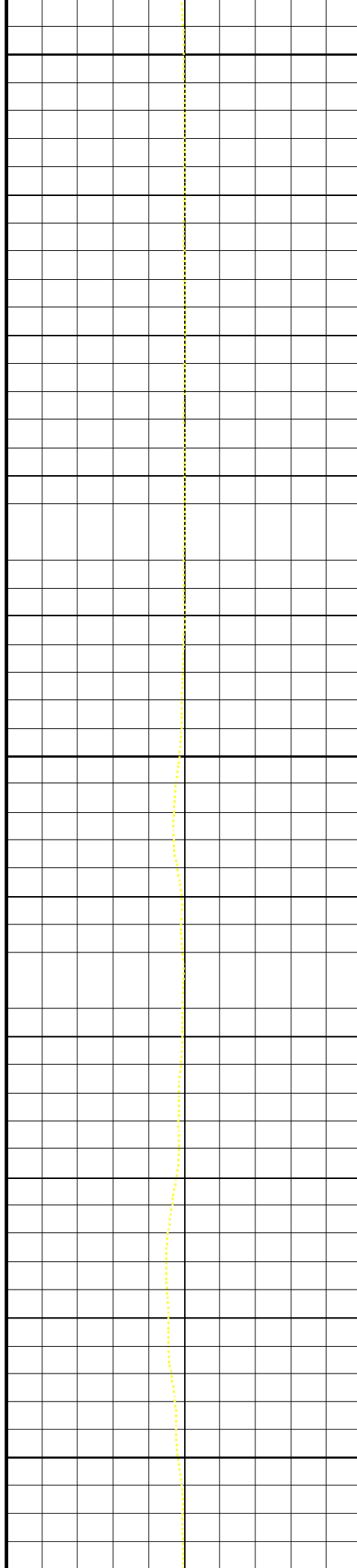
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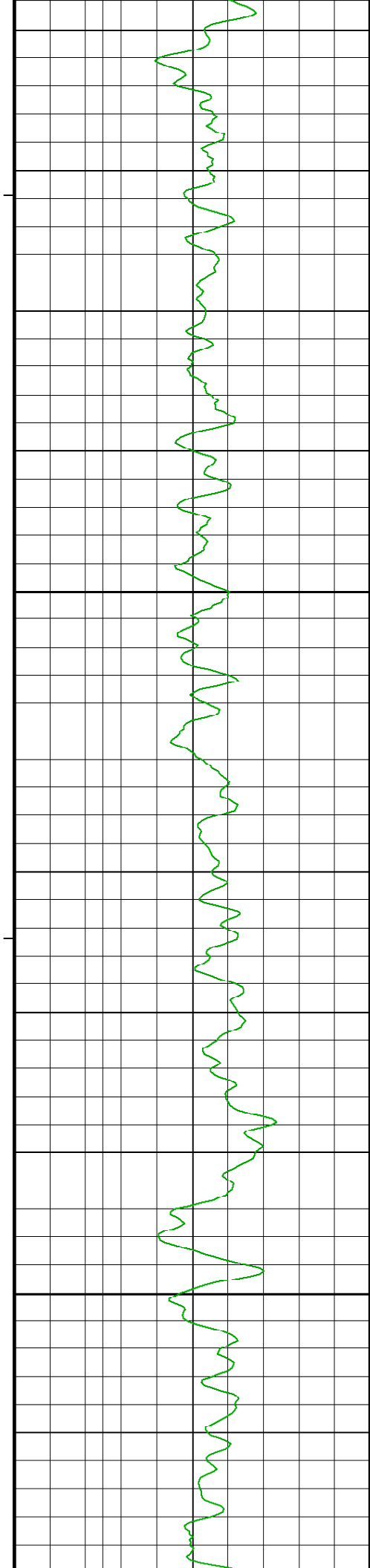
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800

810

820





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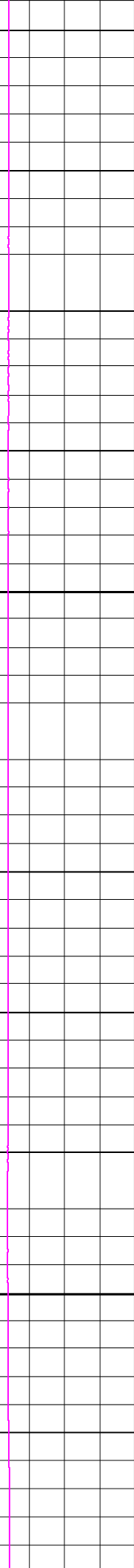
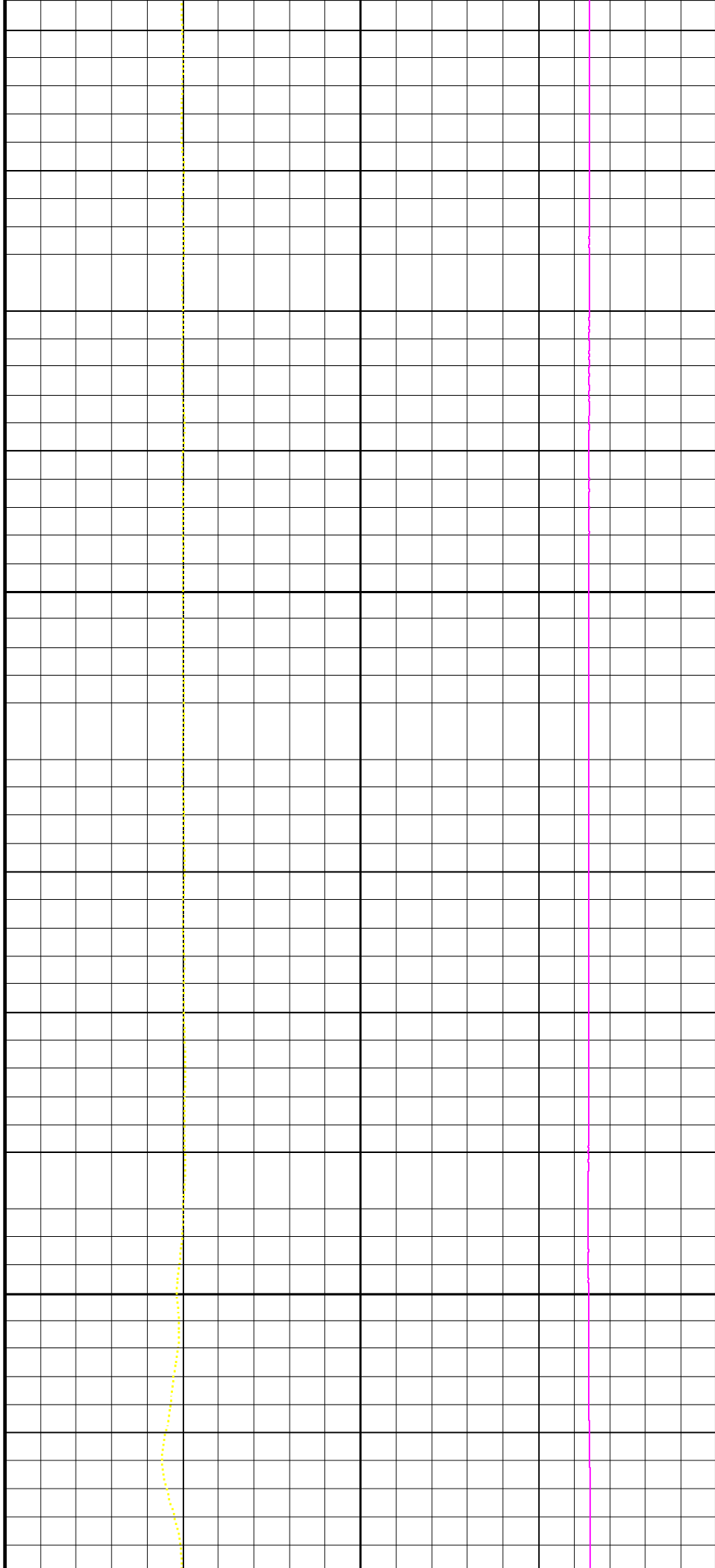
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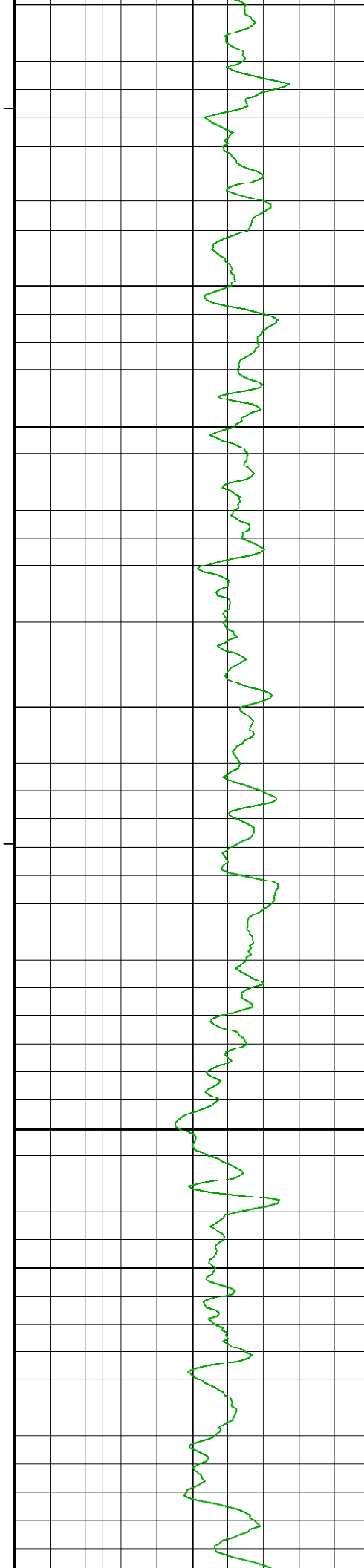
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890

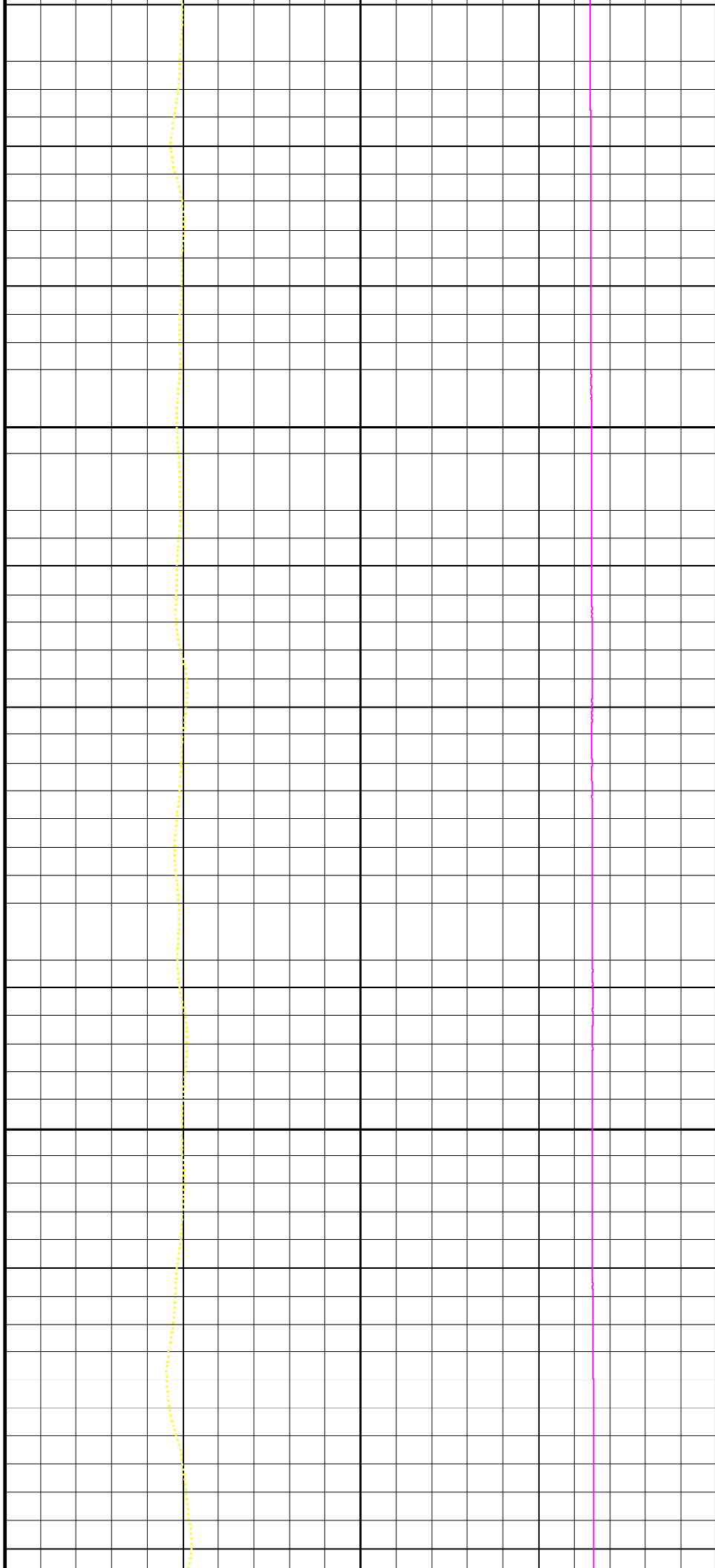
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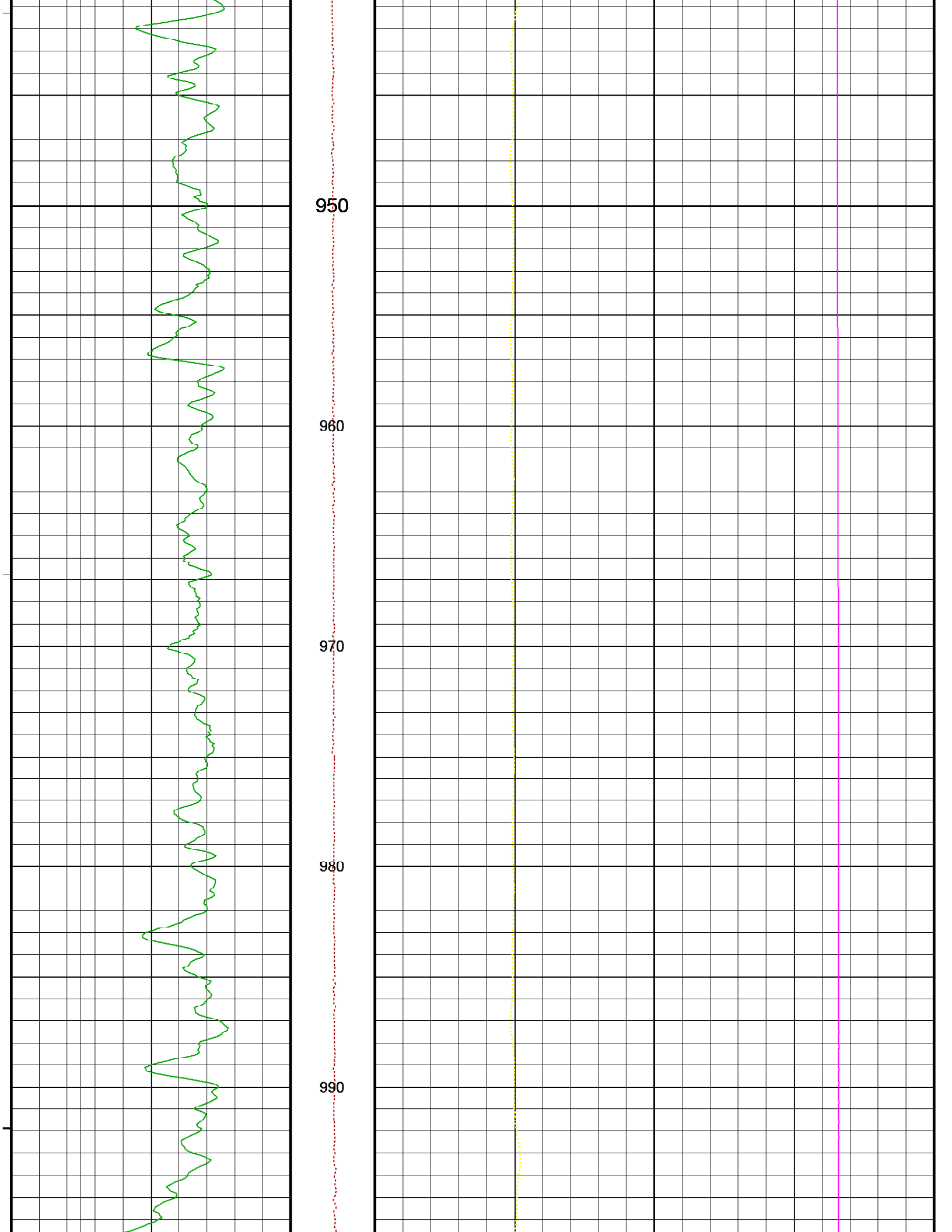
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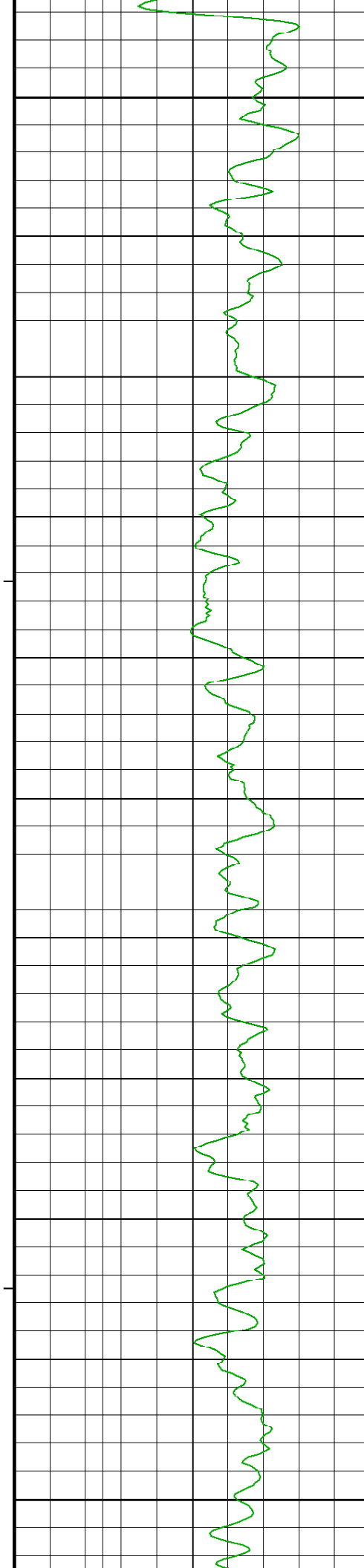
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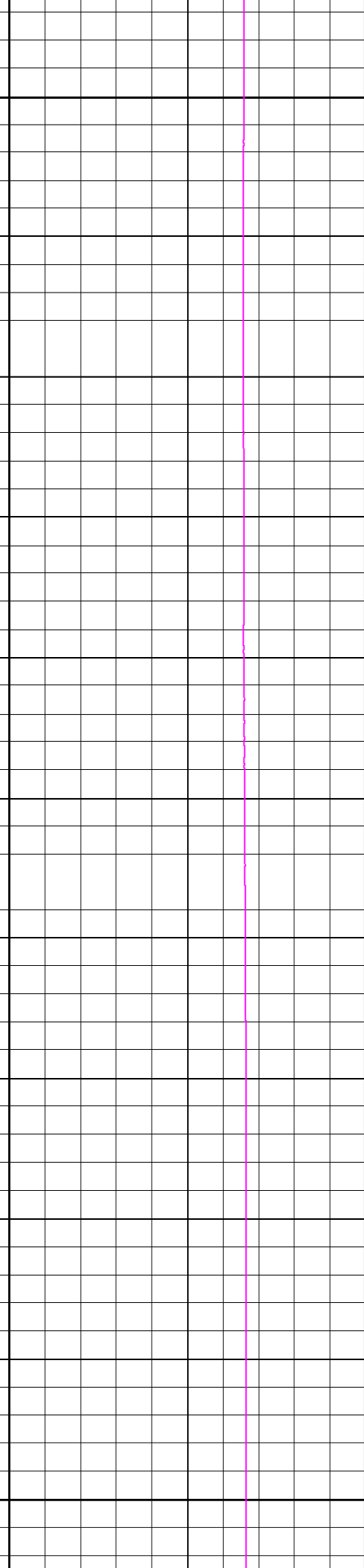
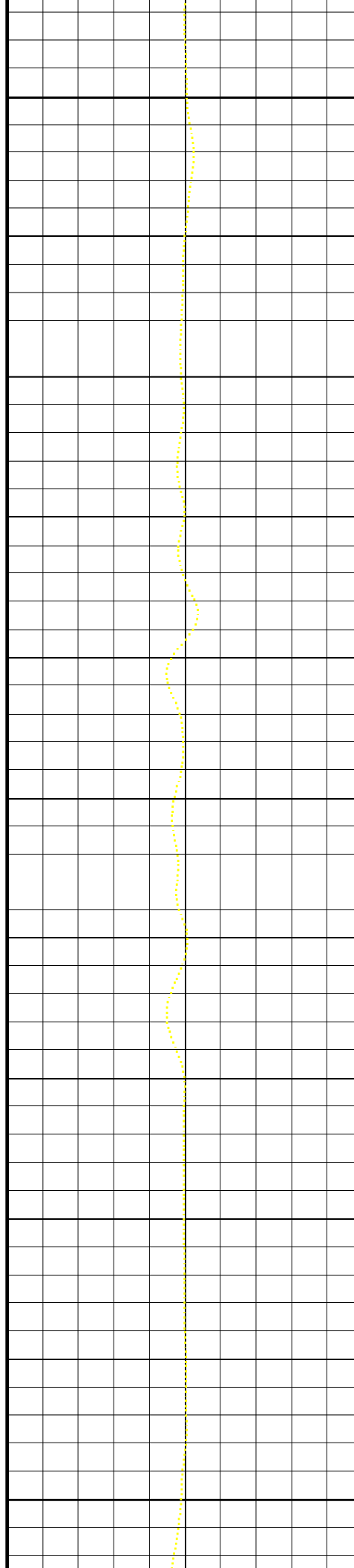
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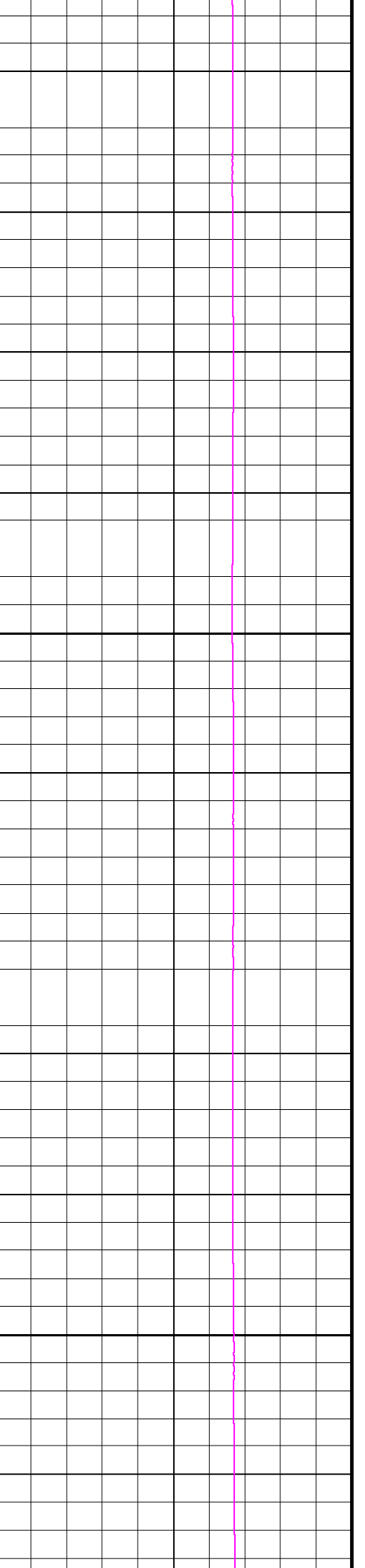
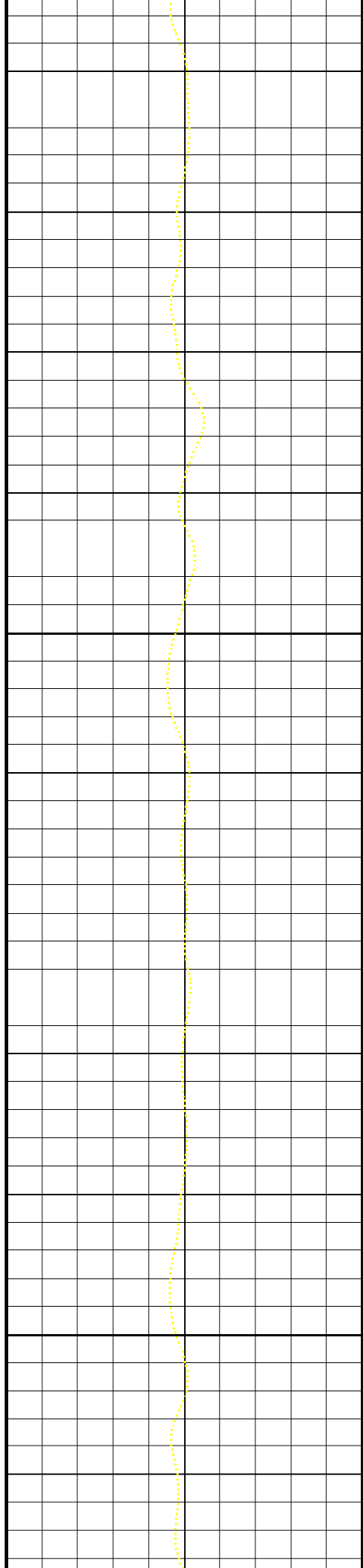
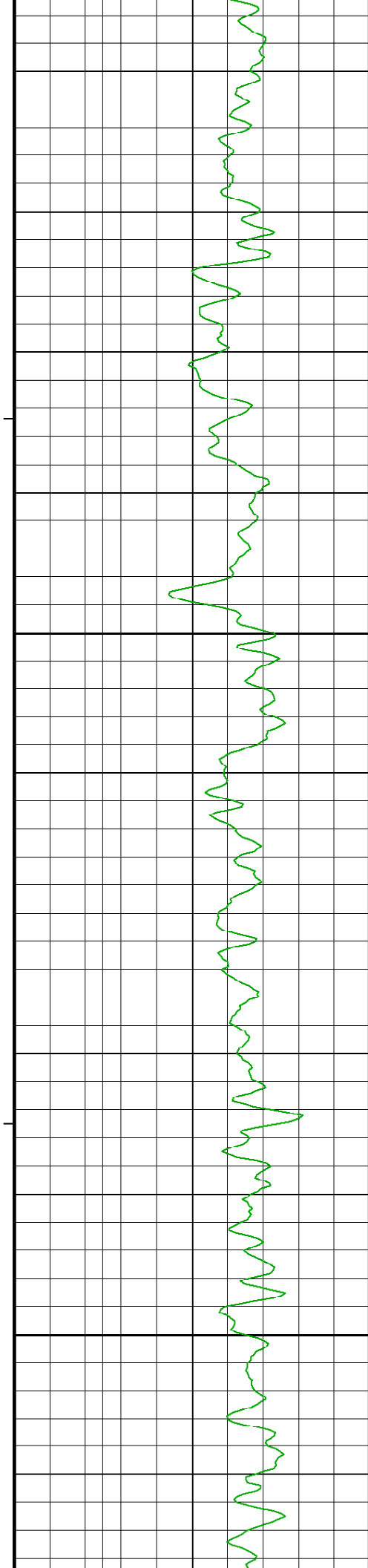
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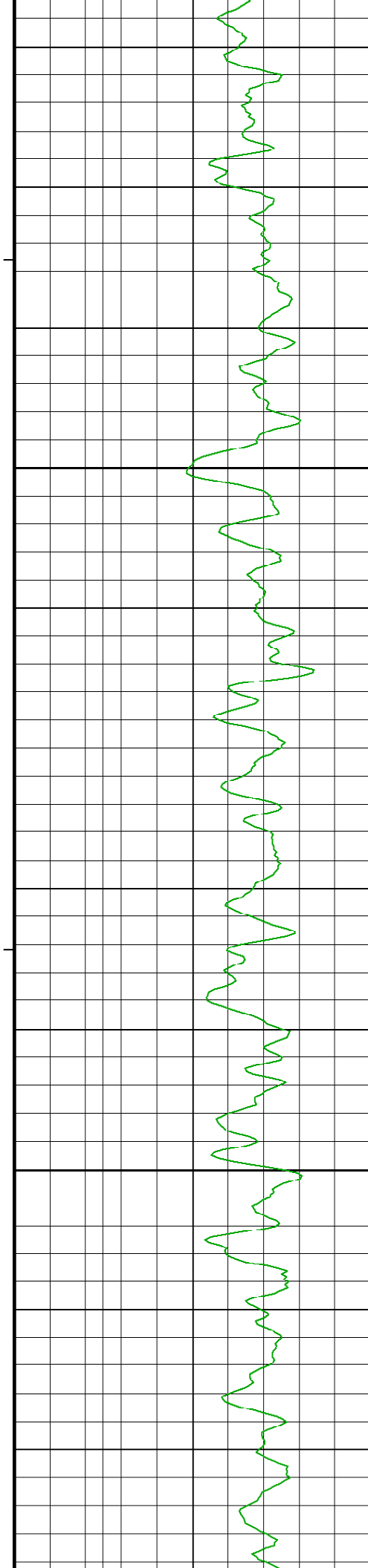
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1040

1050







1110

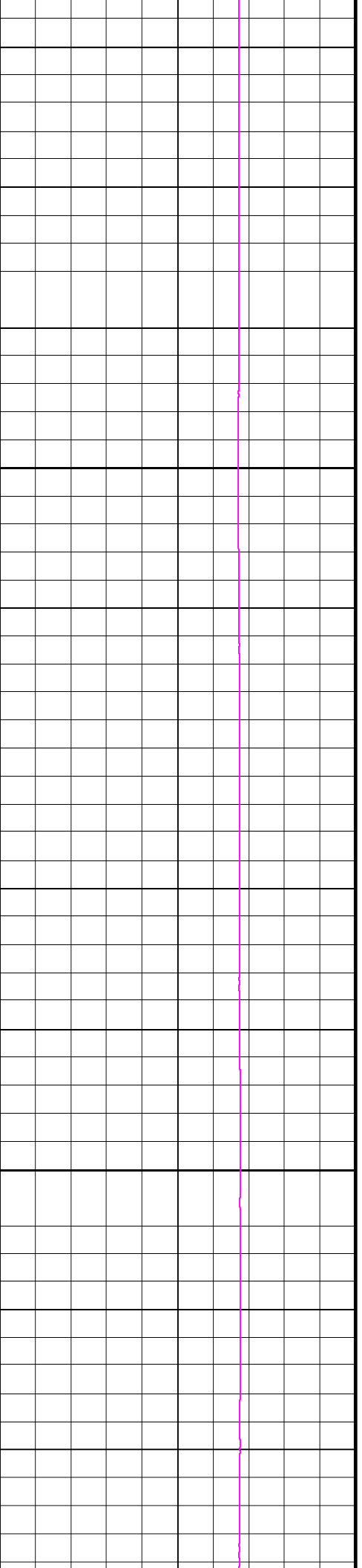
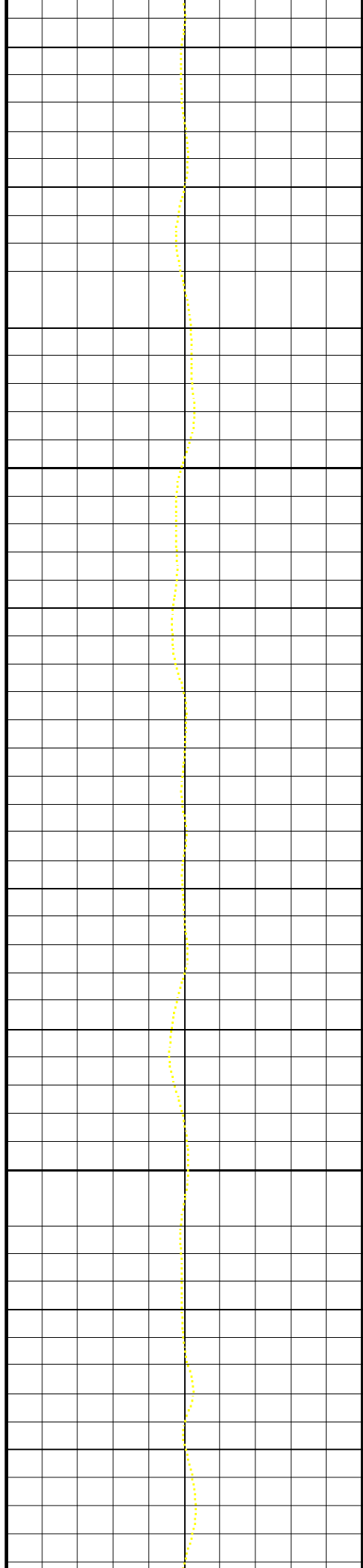
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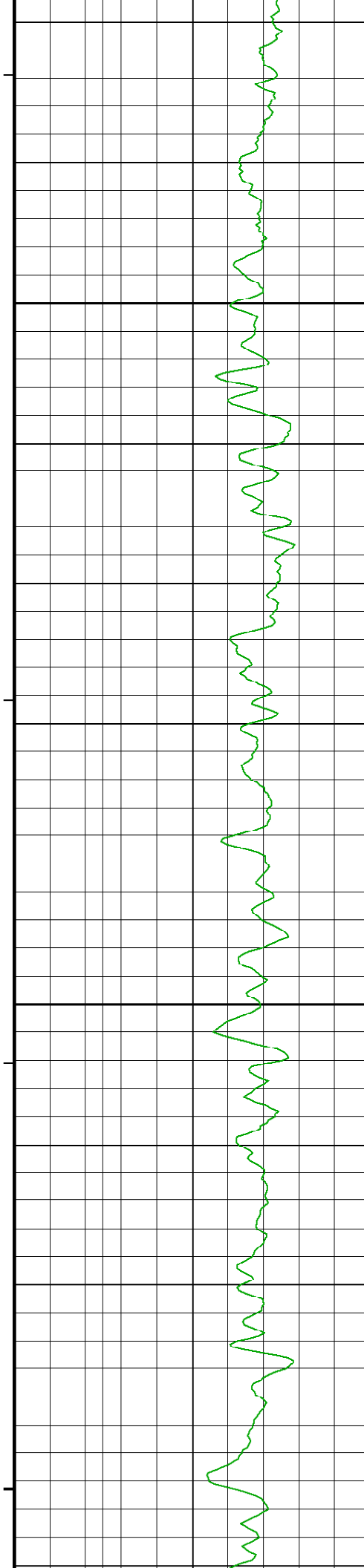
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1150

1160





1170

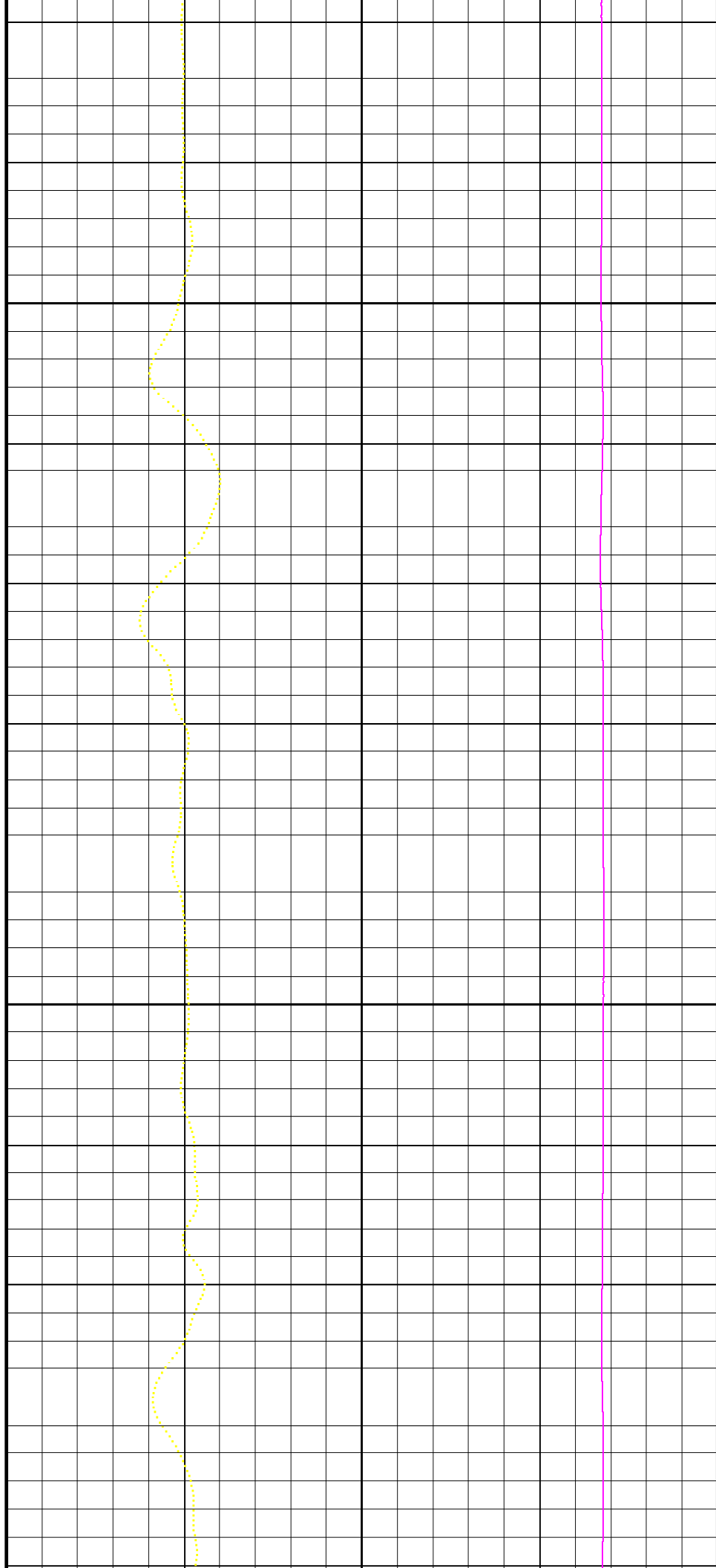
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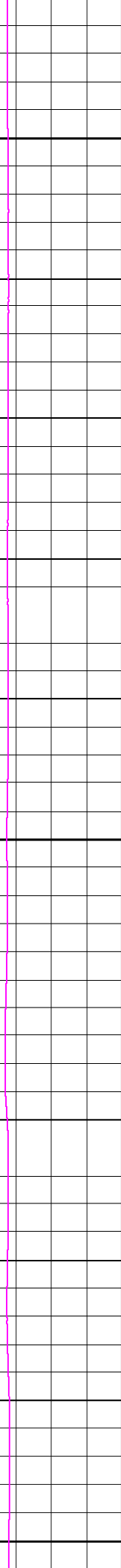
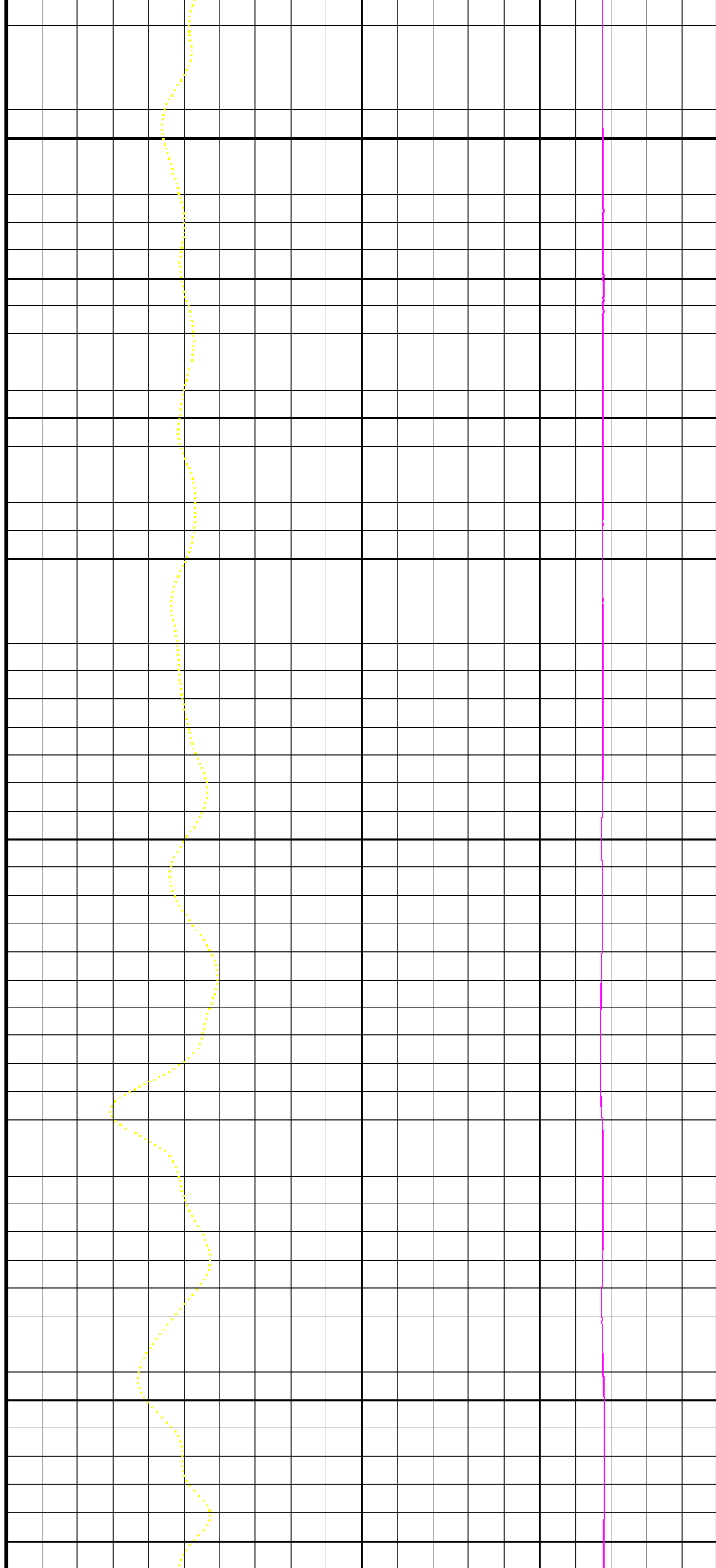
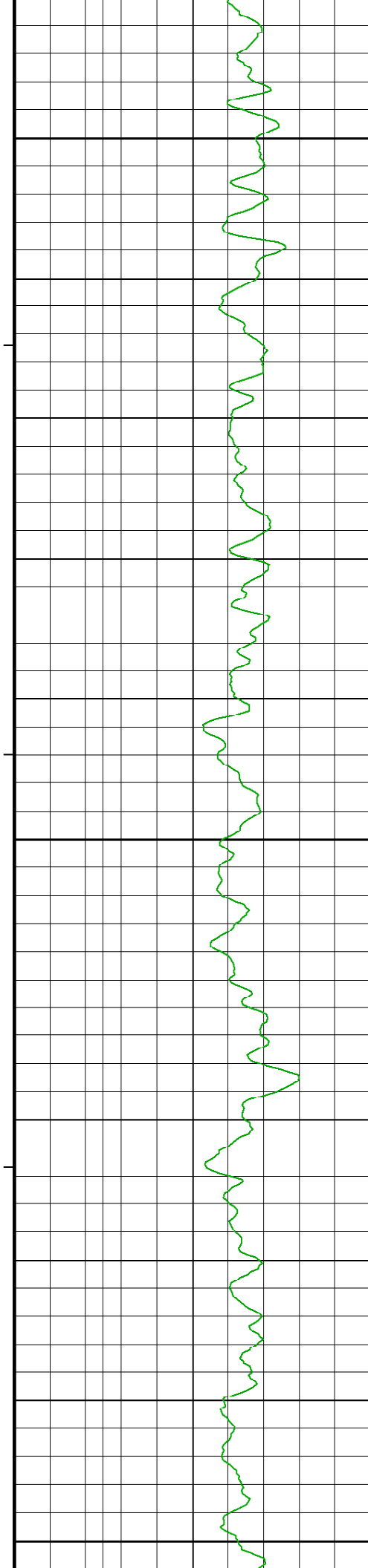
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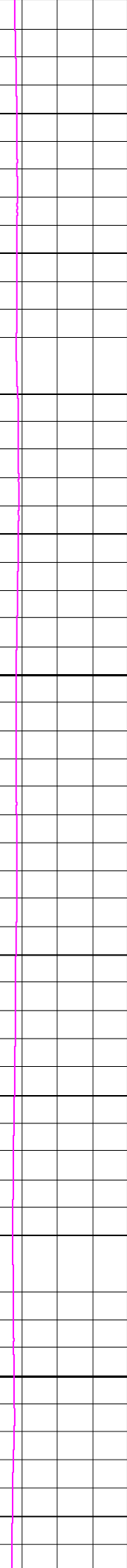
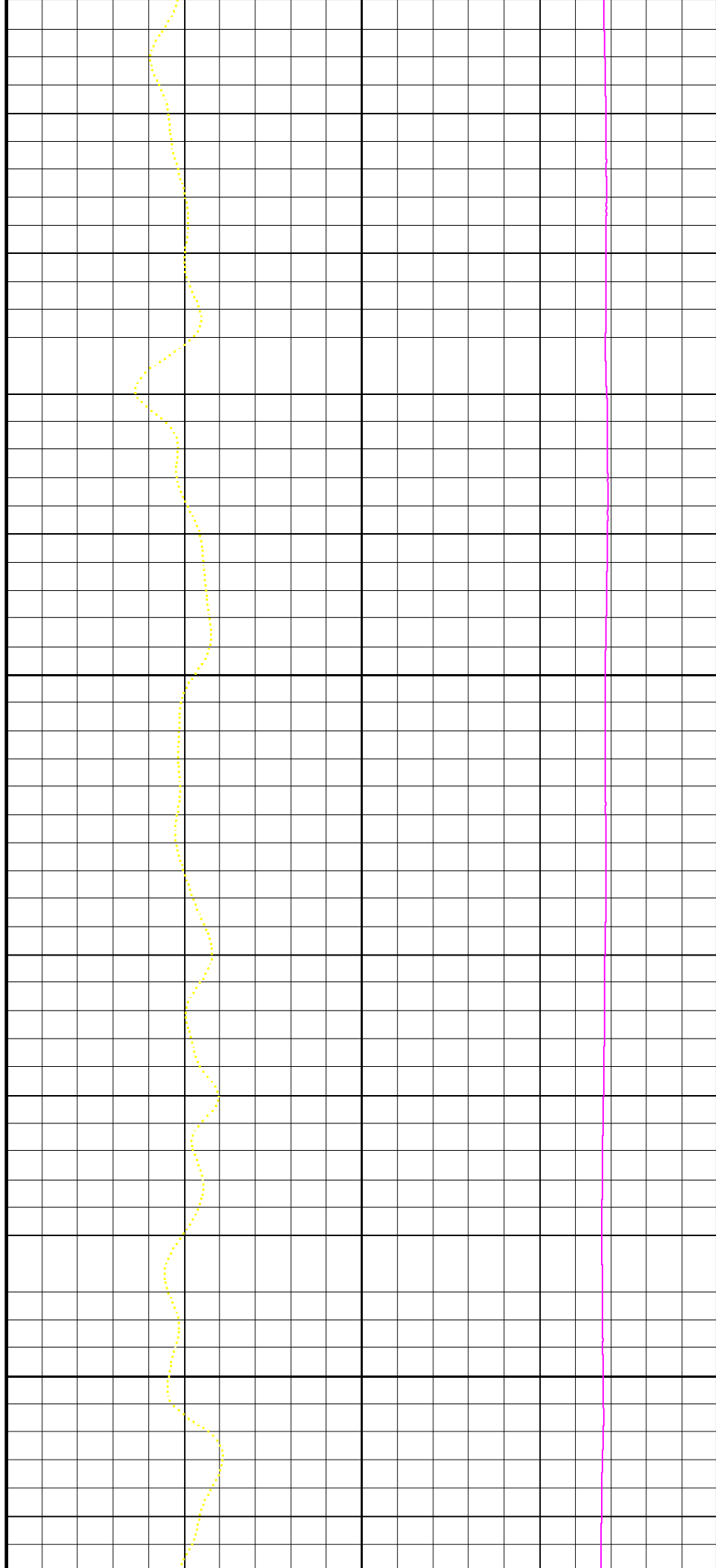
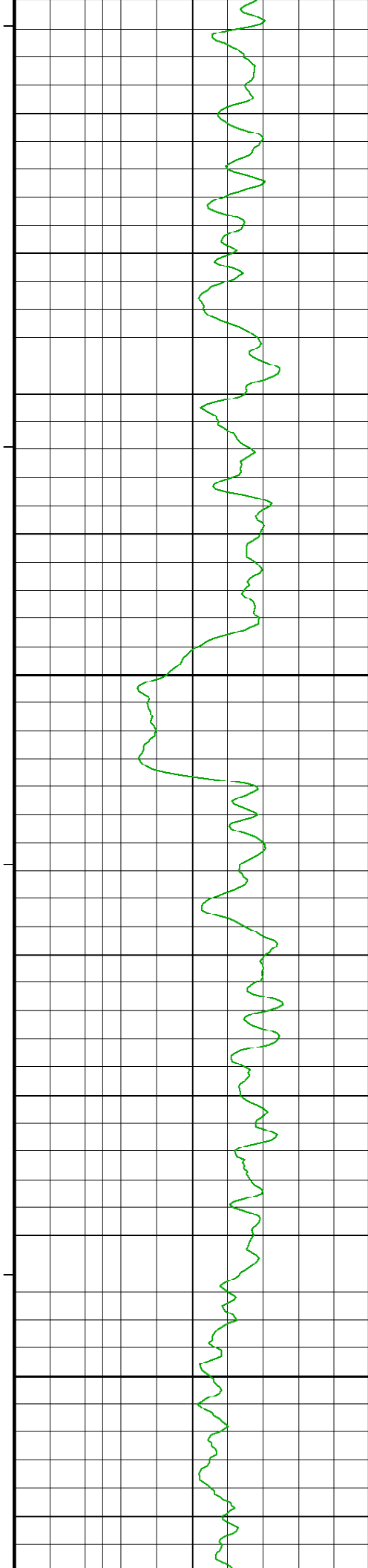
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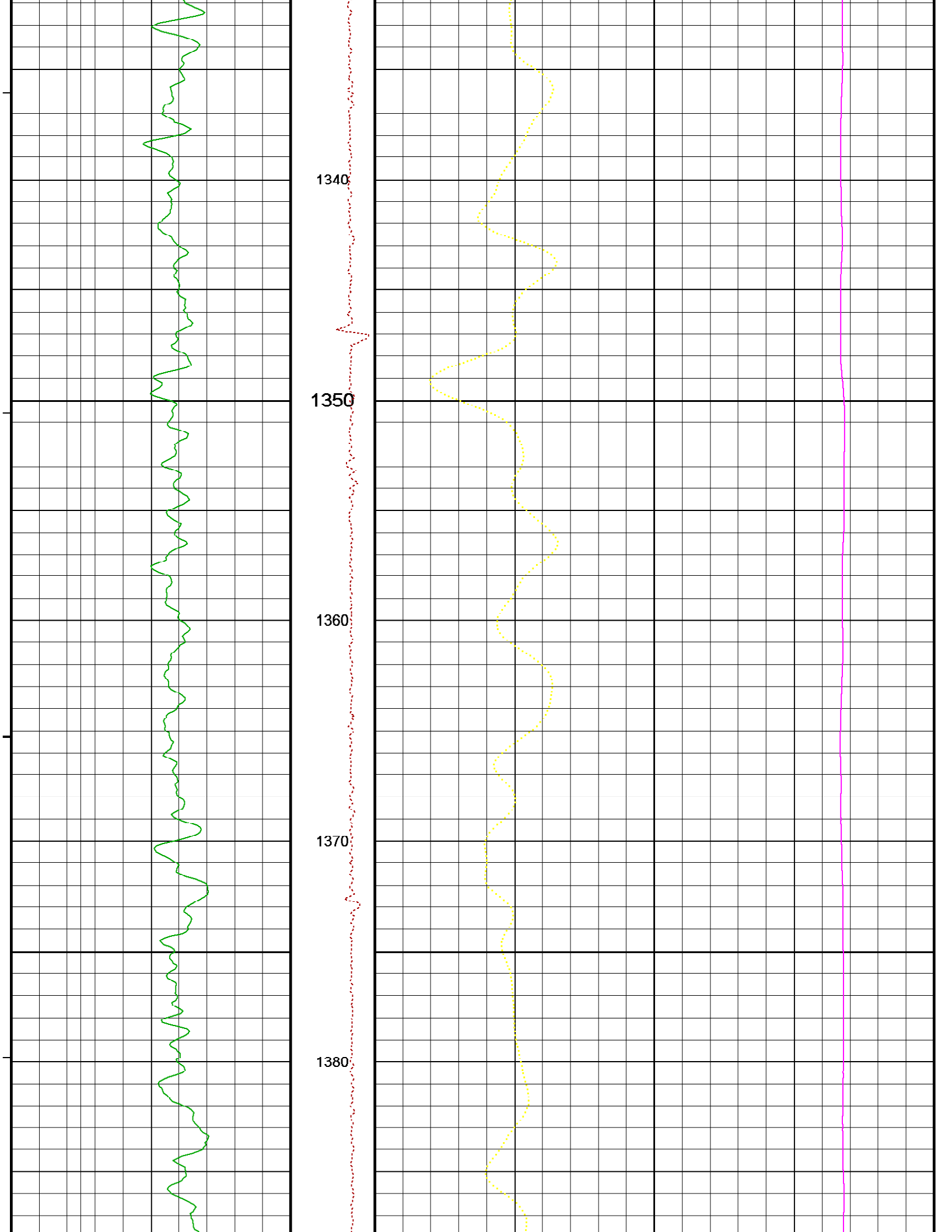
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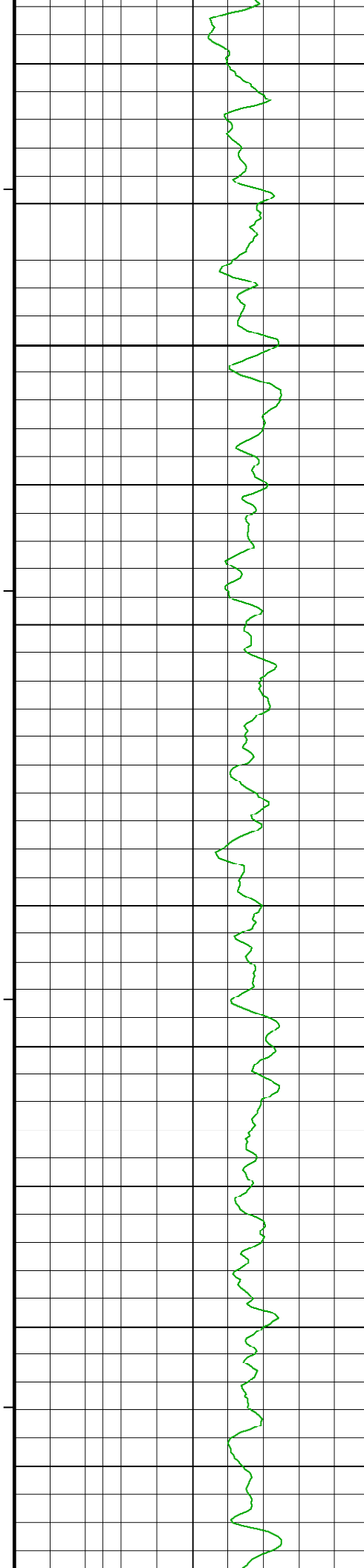
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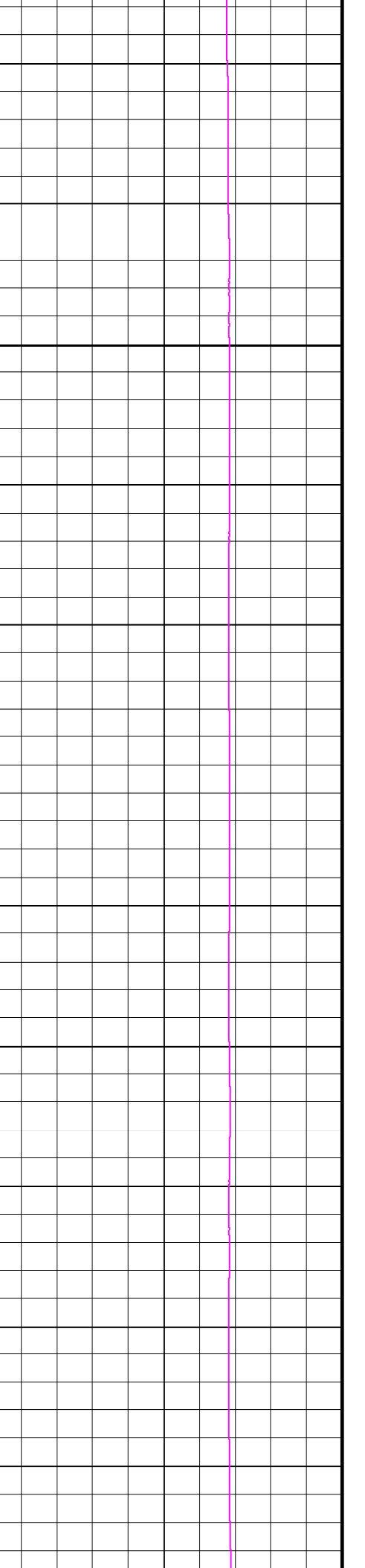
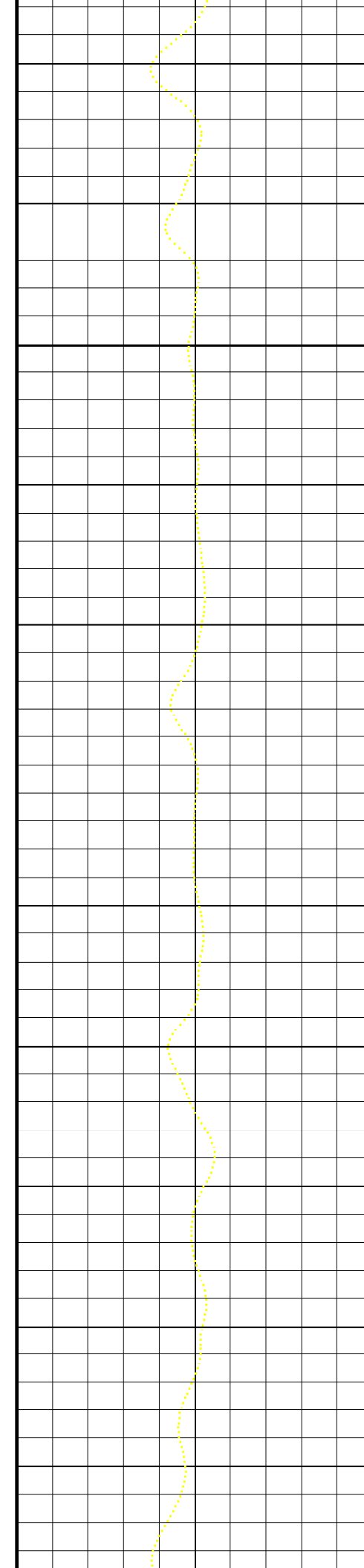
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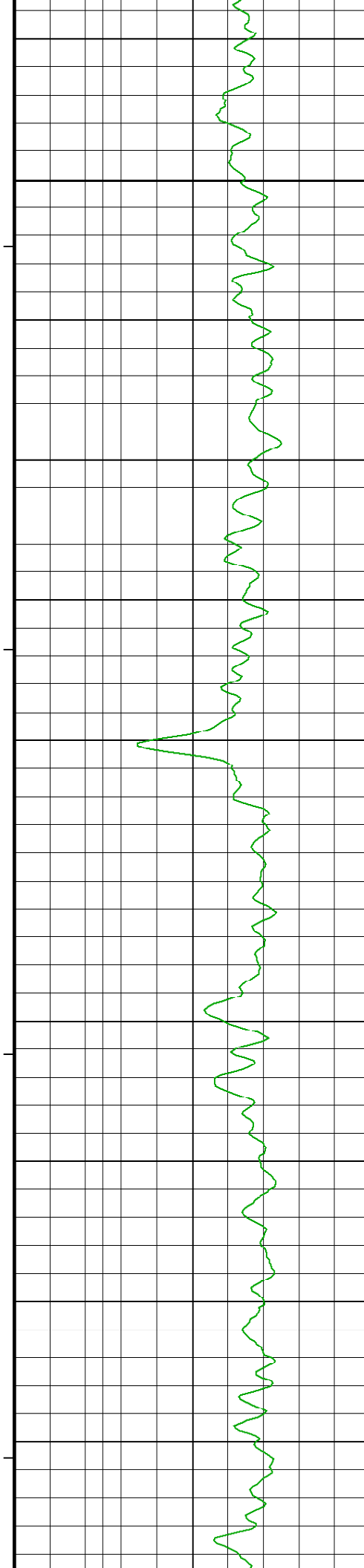
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1440





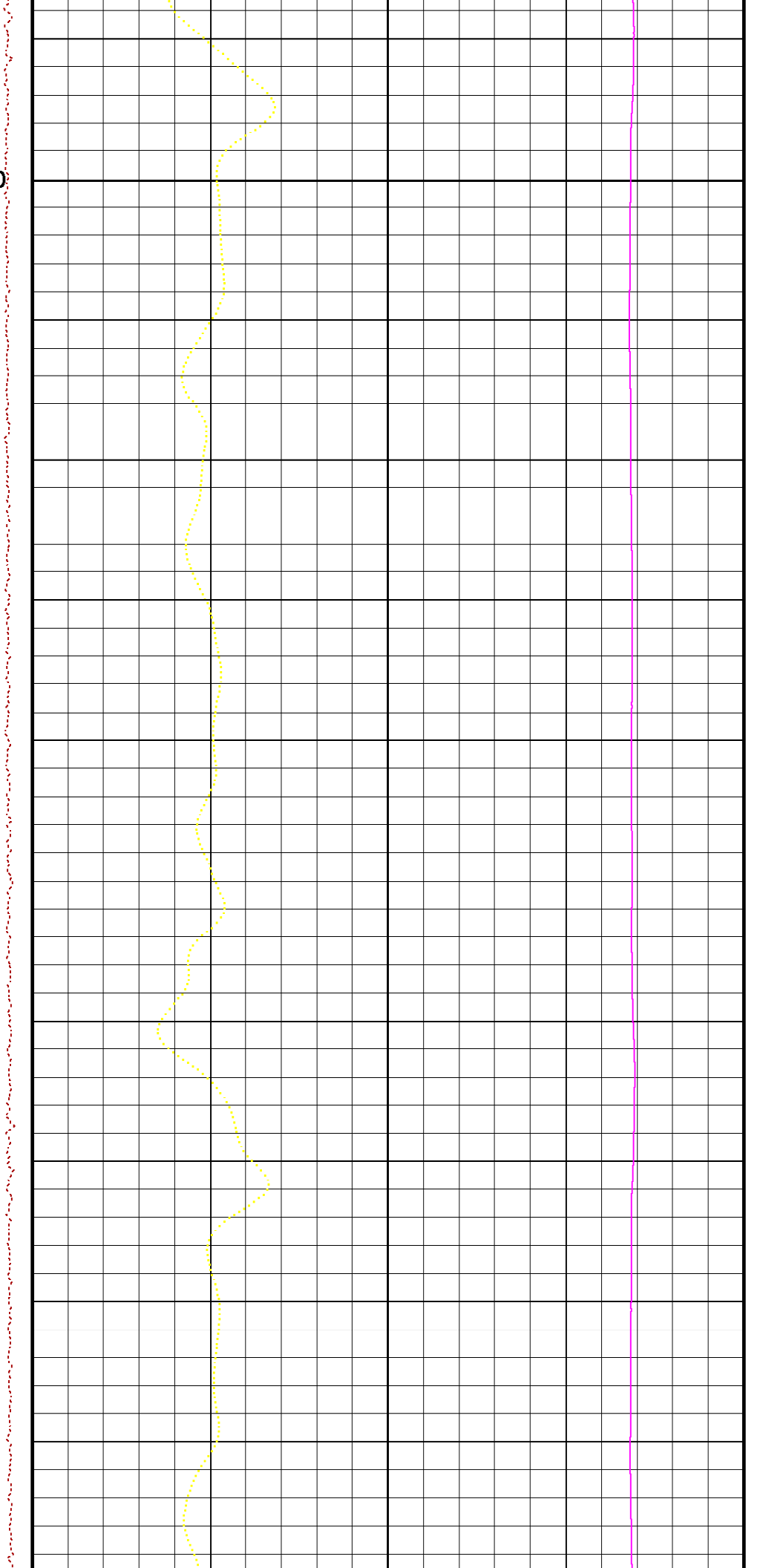
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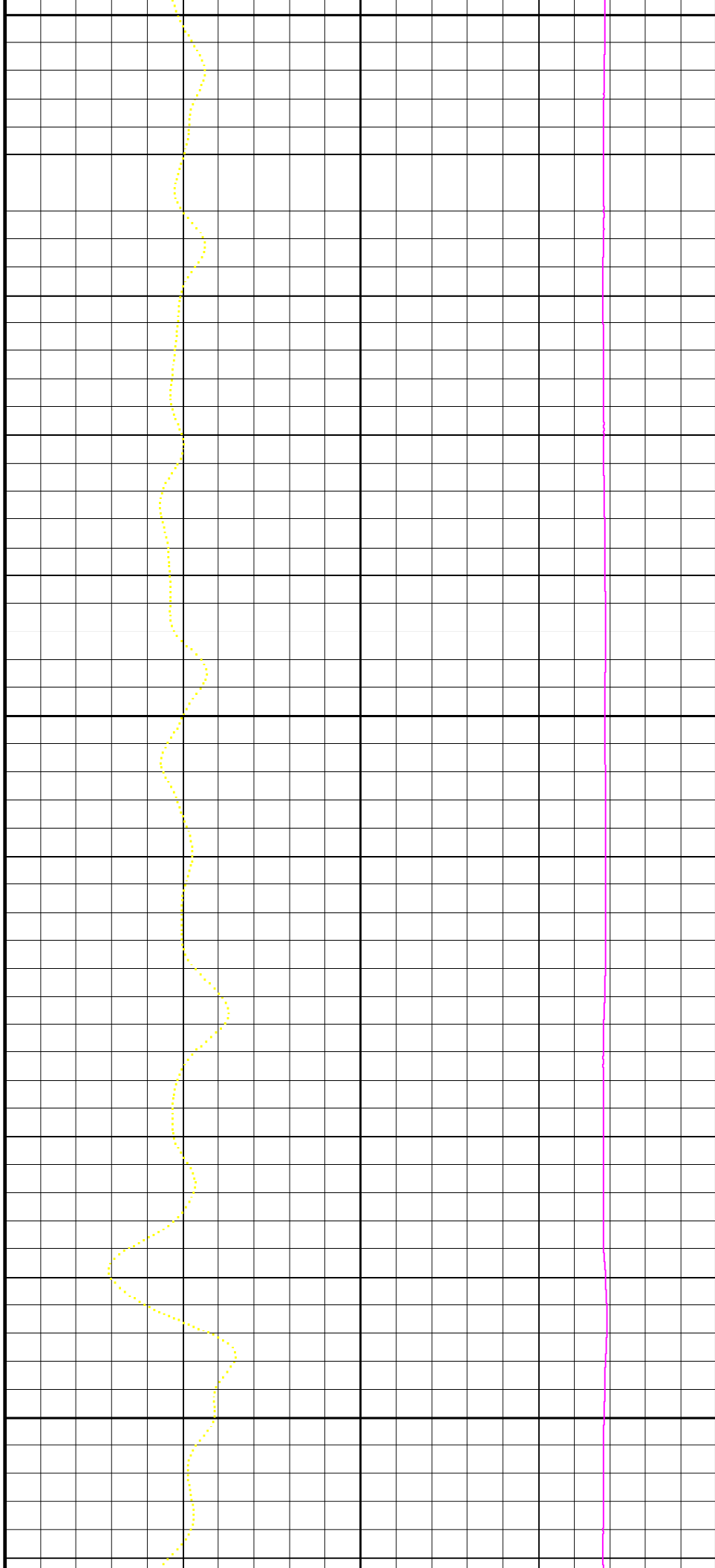
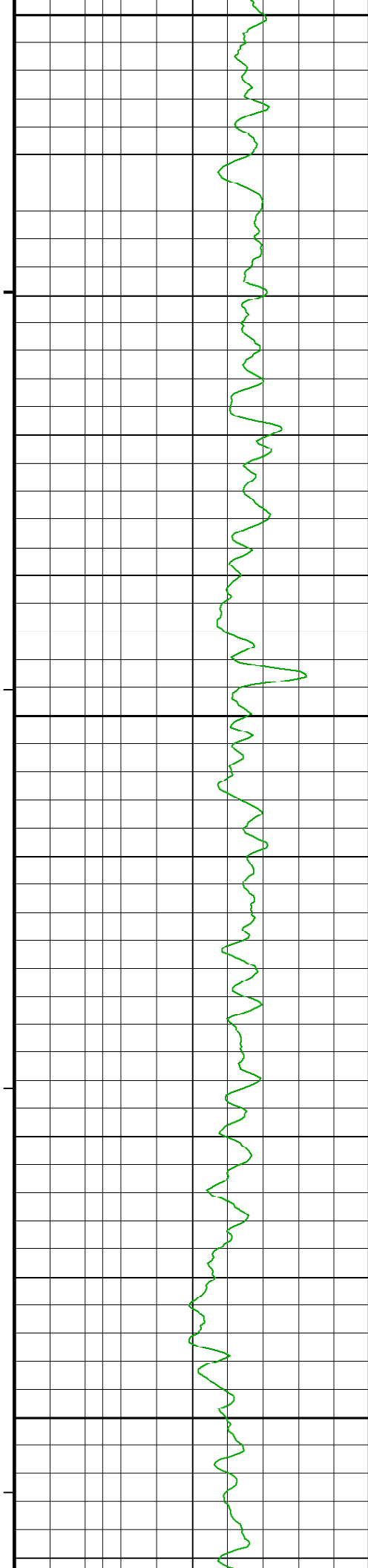
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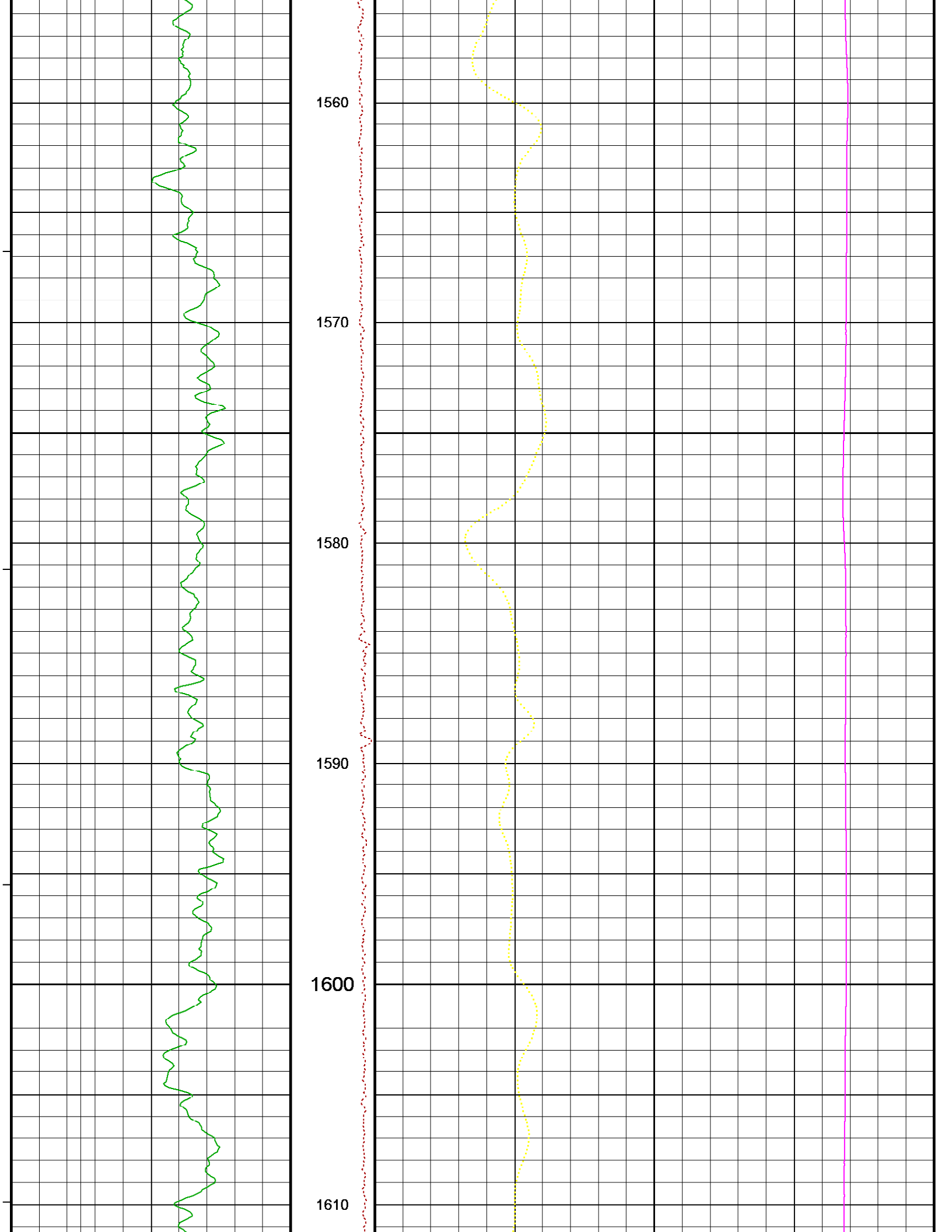
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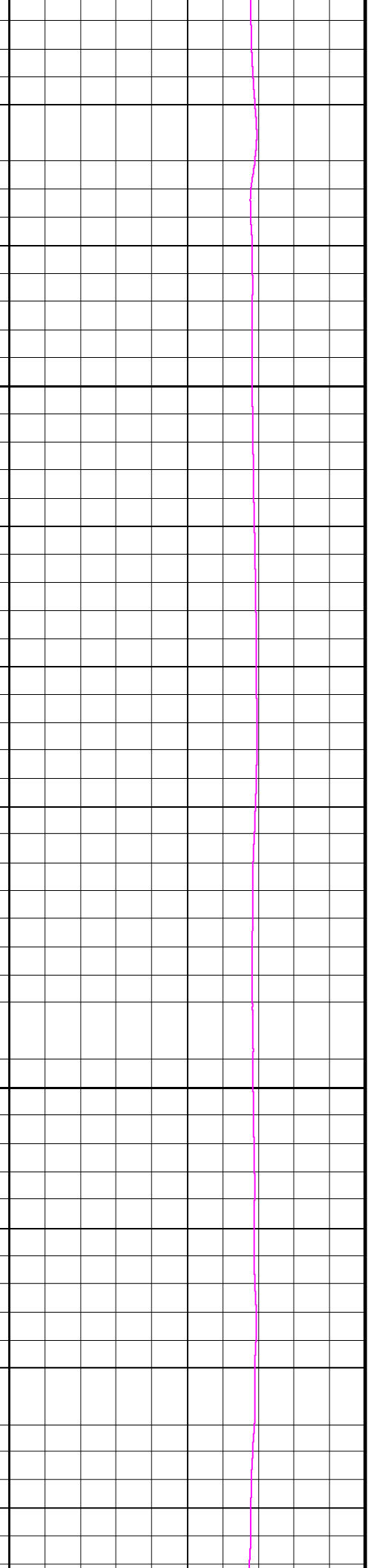
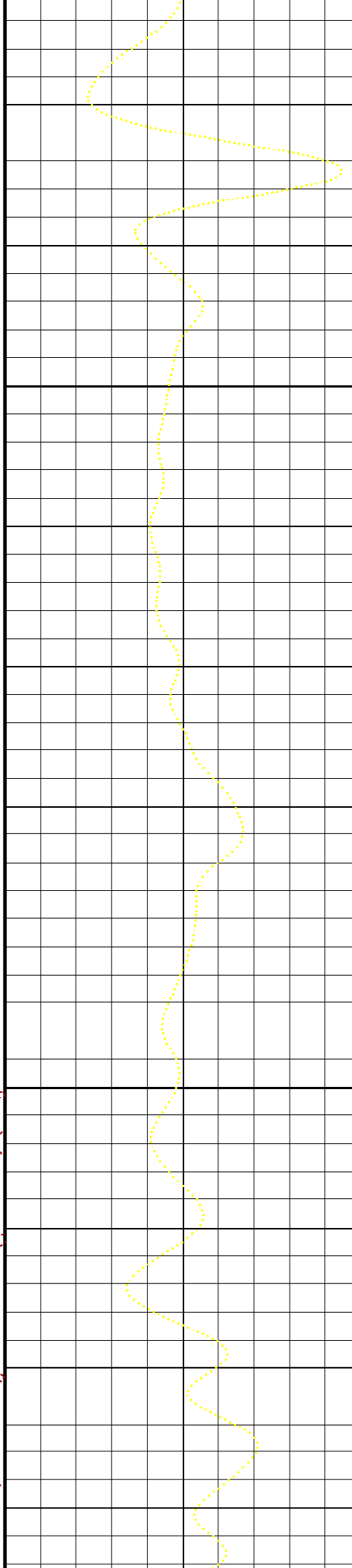
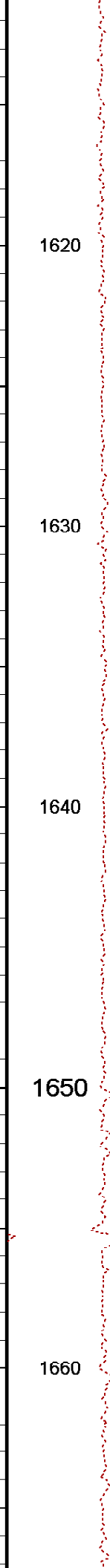
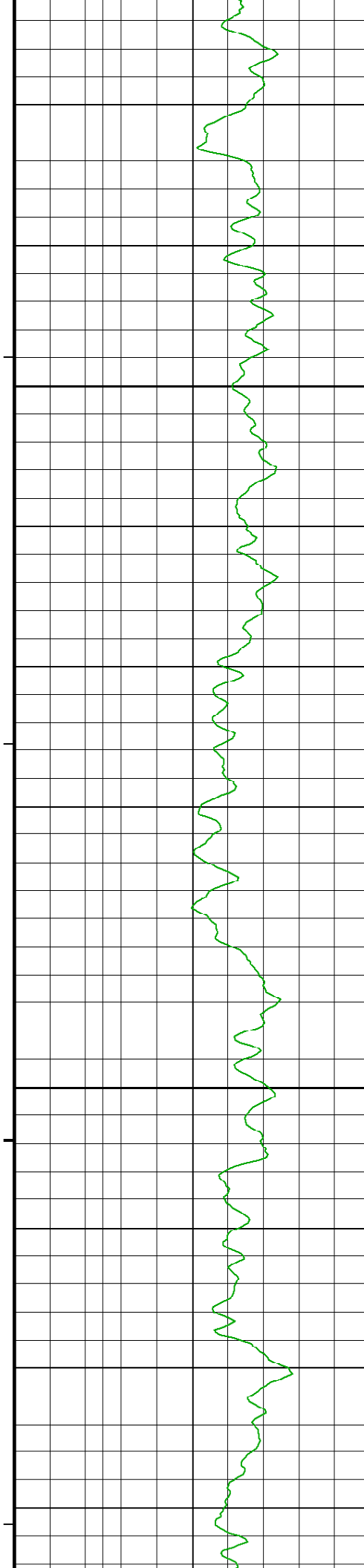
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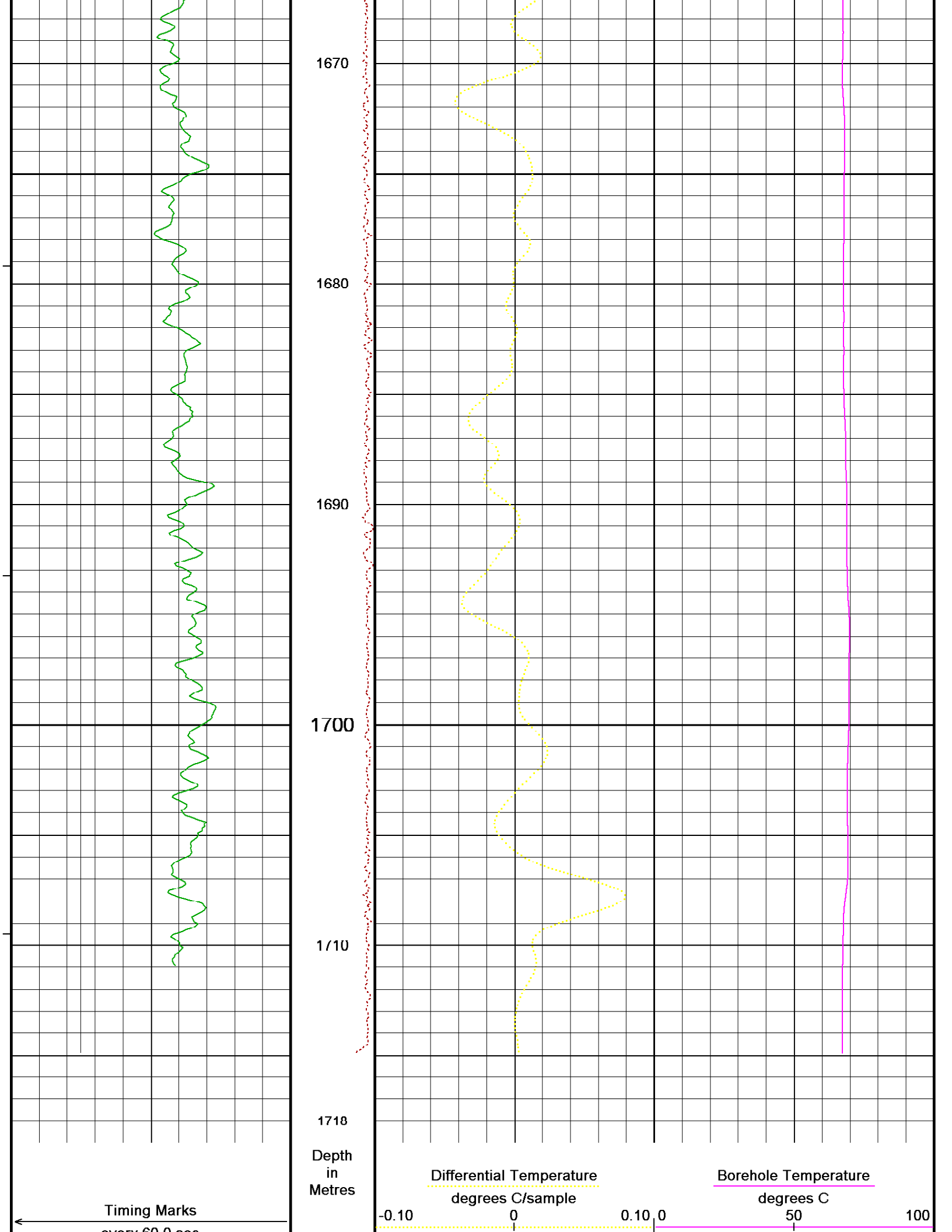
1490











every 60.0 sec

Gamma Ray

API

| | | |
|-----|-----|-----|
| 0 | 100 | 200 |
| 200 | 300 | 400 |

SMTU

0 2000

Bit Size

inches

| | | |
|---|----|----|
| 6 | 11 | 16 |
|---|----|----|

 Replay
Scale
1:200

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 02-JUL-2007 22:30

Filename: C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Precision PreView\MCGMAI.dta

Recorded on 02-JUL-2007 10:11

System Versions: Logged with 7.02.0251 Plotted with 7.01.0194



MAIN 1: 200



BEFORE SURVEY CALIBRATION

C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Precision PreView\MCGMAI.dta

General Constants All 000

Last Edited on 2-JUL-2007,10:00

General Parameters

| | | |
|-----------------------------|----------|------------|
| Mud Resistivity | 0.615 | ohm-metres |
| Mud Resistivity Temperature | 25.000 | degrees C |
| Water Level | 0.000 | metres |
| Density/Neutron Processing | Wet Hole | |

Hole/Annular Volume and Differential Caliper Parameters

| | | |
|----------------------------------|----------|--------|
| HVOL Caliper 1 | Bit Size | |
| HVOL Caliper 2 | Bit Size | |
| Annular Volume Diameter | 7.000 | inches |
| Caliper for Differential Caliper | None | |

Rwa Parameters

| | |
|------------------|-----|
| Porosity used | N/A |
| Resistivity used | N/A |
| RWA Constant A | N/A |
| RWA Constant M | N/A |

Down-hole Tension Calibration SMS 000

Field Calibration on 28-MAY-2005 13:11

| Reading No | Measured | Calibrated (lbs) |
|------------|----------|------------------|
| 1 | 14102.70 | 0.00 |
| 2 | 18957.76 | 2000.00 |

High Resolution Temperature Calibration MCG 162

Field Calibration on 15-MAY-2007,16:22

| | Measured | Calibrated(Deg C) |
|-------|----------|-------------------|
| Lower | 0.00 | 0.00 |
| Upper | 100.00 | 100.00 |

High Resolution Temperature Constants MCG 162

| | |
|-------------------|----|
| Pre-filter Length | 11 |
|-------------------|----|

SP Calibration MCG 162

Field Calibration on 15-MAY-2007,16:22

| | Measured | Calibrated (mV) |
|-------------|----------|-----------------|
| Reference 1 | 82.0 | 82.0 |
| Reference 2 | -82.0 | -82.0 |

Gamma Calibration MCG 162

Field Calibration on 2-JUL-2007 08:57

| | Measured | Calibrated (API) |
|--------------------|----------|------------------|
| Background | 38 | 26 |
| Calibrator (Gross) | 750 | 516 |

| | | |
|--------------------|-----|-----|
| Calibrator (Gross) | 739 | 516 |
| Calibrator (Net) | 721 | 490 |

| | | | | | |
|-------------------------------|-----------------|-------|----------------------------------|--|--|
| Gamma Constants MCG 162 | | | Last Edited on 19-JUN-2007,13:15 | | |
| Gamma Calibrator Number | 128 | | | | |
| Mud Density | 1.09 | gm/cc | | | |
| Caliper Source for Processing | Density Caliper | | | | |
| Tool Position | Eccentred | | | | |
| Concentration of KCl | 0.00 | kppm | | | |

| | | | | | |
|-------------------------------|---------------------|----------|----------------------|---------------------------------------|--|
| Induction Calibration MAI 088 | | | | Base Calibration on 27-NOV-2006,11:40 | |
| | | | | Field Check on 2-JUL-2007 08:59 | |
| Base Calibration | | | | | |
| Test Loop Calibration | | Measured | | Calibrated (mmho/m) | |
| Channel | Low | High | Low | High | |
| 1 | 15.3 | 467.1 | 9.3 | 966.2 | |
| 2 | 4.6 | 371.6 | 7.6 | 821.4 | |
| 3 | 2.4 | 248.0 | 5.2 | 566.0 | |
| 4 | 0.8 | 128.6 | 2.6 | 279.2 | |
| Array Temperature | | 19.3 | Deg C | | |
| | | | | | |
| Channel | Base Check (mmho/m) | | Field Check (mmho/m) | | |
| | Low | High | Low | High | |
| 1 | 17.2 | 3915.2 | 15.9 | 3913.4 | |
| 2 | 34.4 | 3651.1 | 33.9 | 3649.8 | |
| 3 | 32.2 | 3208.9 | 31.9 | 3208.0 | |
| 4 | 22.5 | 2151.2 | 22.3 | 2150.8 | |
| Deep | 20.1 | 2106.9 | 19.8 | 2106.7 | |
| Medium | 46.4 | 4258.3 | 45.9 | 4256.9 | |
| Shallow | 51.1 | 5363.5 | 50.2 | 5361.2 | |
| Array Temperature | | 19.0 | 12.1 | Deg C | |

| | | | | | |
|--|--------|--------------------------|-------------|----------------------------------|--|
| Induction Constants MAI 088 | | | | Last Edited on 12-JUN-2007,10:15 | |
| Induction Model | | VECTAR | | | |
| Caliper for Borehole Corr. | | Bit Size | | | |
| Hole Size for Borehole Correction | | N/A | inches | | |
| Stand-off | | 2.00 | inches | | |
| Number of Fins on Stand-off | | 6.0000 | | | |
| Stand-off Fin Width | | 0.5000 | inches | | |
| Borehole Corr. Rm Source | | Temperature Corr | | | |
| Temp. for Rm Corr. | | MCG External Temperature | | | |
| Squasher Start | | 0.0020 | mhos/metre | | |
| Borehole Normalisation | | | | | |
| DRM1 | 0.0000 | DRC1 | 0.0000 | | |
| DRM2 | 0.0000 | DRC2 | 0.0000 | | |
| MRM1 | 0.0000 | MRC1 | 0.0000 | | |
| MRM2 | 0.0000 | MRC2 | 0.0000 | | |
| SRM1 | 0.0000 | SRC1 | 0.0000 | | |
| SRM2 | 0.0000 | SRC2 | 0.0000 | | |
| Calibration Site Corrections | | | | | |
| Channel 1 | | 0.00 | mmhos/metre | | |
| Channel 2 | | 0.00 | mmhos/metre | | |
| Channel 3 | | 0.00 | mmhos/metre | | |
| Channel 4 | | 0.00 | mmhos/metre | | |
| Apparent Porosity and Water Saturation Constants | | | | | |
| Archie Constant (A) | | 1.00 | | | |
| Cementation Exponent (M) | | 2.00 | | | |
| Saturation Exponent (N) | | 2.00 | | | |
| Saturation of Water for Apor | | 100.00 | percent | | |
| Resistivity of Water for Apor and Sw | | 0.05 | ohm-m | | |
| Resistivity of Mud Filtrate for Sw | | 0.00 | ohm-m | | |

| | | | | | |
|---|------|----------|--|--|--|
| High Resolution Temperature Calibration MAI 088 | | | Field Calibration on 21-AUG-2004,11:08 | | |
| | | Measured | Calibrated(Deg C) | | |
| Lower | 0.00 | 0.00 | | | |

Upper

100.00

100.00

High Resolution Temperature Constants MAI 088

Pre-filter Length

11

DOWNHOLE EQUIPMENT

C:\DOCUME~1\HELILI~1\LOCALS~1\Temp\Precision PreView\MCGMAI.dta

Compact Gamma

MCG 162 Length: 2.65 m

Weight: 63.9 lb

Compact Induction

MAI 88 Length: 3.29 m

Weight: 48.5 lb

Total

Length: 5.95 m

Weight: 112.4 lb



Tool Zero

(0.04m from bottom)

All measurements relative to tool zero.

COMPANY

LAKES OIL N.L.

WELL

BOOLA BOOLA 2

FIELD

WILDCAT

PROVINCE/COUNTY

VICTORIA

COUNTRY/STATE

AUSTRALIA

Elevation Kelly Bushing

metres

Elevation Drill Floor

metres

Elevation Ground Level

metres

First Reading

metres

Depth Driller

metres

Depth Logger

metres



GAMMA

TEMPERATURE LOG

1:200



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