



LWD MEMORY LOG

Gamma Ray

Scale: Company: SRC Energy

1:240 MD Well: Greeley-Rothe 34N-2B-L

Depth Reference: Field: DJ Basin

Driller's Depth County: Weld County Country: United States

State: Colorado

Status: Surface Location: 040° 25' 27.109" N Other Services:

Final Print Latitude: 104° 50' 00.611" W Directional

API No: 05-123-46448-00 Longitude: 104° 50' 00.611" W

Job ID: 9152766 SEC: 1 TWN: 5N RGE: 67W

Permanent Datum (P.D.): Ground Level Elevation: 4873.00 ft Elev. KB: N/A

Log Measured From: Rig Floor Above P.D. 20.00 ft Elev. DF: 4893.00 ft

Dates Interval Drilled Magnetic Field Reference

Date From: 2018-05-22 Top: (ft) 20.00 Azi Reference North: True Dip Angle: (deg) 66.68

Date To: 2018-08-07 Bottom: (ft) 17270.00 Total Magnetic Field Strength: (nT) 52384

Spud Date: 2018-05-22 Mag to Reference North Correction: (deg) 7.72

Borehole Record

Casing Record

Hole Size (in) From (ft) To (ft) Size (in) Weight (lb/ft) From (ft) To (ft)

13.500 20.00 1836.00 9.625 36.00 20.00 1826.00

8.500 1836.00 17270.00

Mud Record

Deviation Record

Type From (ft) To (ft) Hole Size (in) Interval (ft) Inc | Az (Start) Inc | Az (End)

Water Based Mud 20.00 1836.00 13.500 1836.00 0.10 | 248.28 9.85 | 123.17

Oil Based Mud 1836.00 17270.00 8.500 15434.00 9.85 | 123.17 9.85 | 123.17

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Acquisition System Software Version

Other

Baker Hughes Cadence RT 4.2 PD462 Precision Drilling Unit: D&E

Plot Studio 4.2.8155.1 Contractor: RMD District:

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Log Run Summary

| Run No | Bit Run No. | Bit Size (in) | Bit Type | Bit Gauge Length (in) | Assembly Type | Logged Interval | | Bit Depth Interval | | Date / Time | | Circ. Hours (h) |
|--------|-------------|---------------|----------|-----------------------|----------------|-----------------|-------------|--------------------|----------|------------------|------------------|-----------------|
| | | | | | | Top (ft) | Bottom (ft) | From (ft) | To (ft) | Start Logging | End Logging | |
| 1 | 1 | 13.500 | PDC | 4.00 | Steerable | 0.00 | 0.00 | 0.00 | 0.00 | N/A | N/A | 12.22 |
| 2 | 2 | 8.500 | PDC | 3.00 | AutoTrak Curve | 1836.00 | 2348.00 | 1836.00 | 2348.00 | 2018-08-05 21:53 | 2018-08-05 23:37 | 2.35 |
| 3 | 3 | 8.500 | PDC | 3.00 | AutoTrak Curve | 2348.00 | 17257.00 | 2348.00 | 17270.00 | 2018-08-06 04:25 | 2018-08-08 20:54 | 57.25 |

Crew

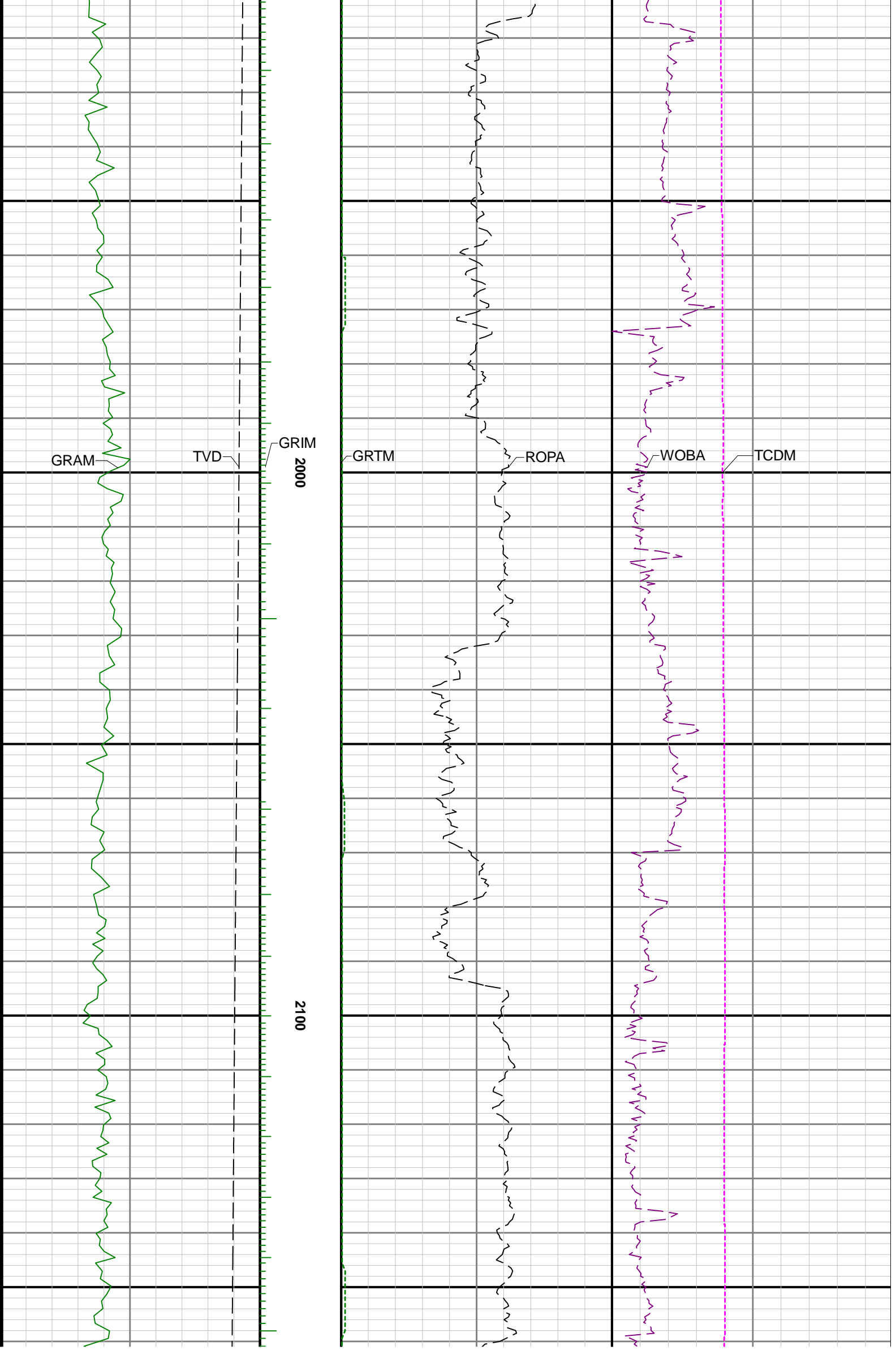
| Name | Arrive Wellsite | Depart Wellsite | Name | Arrive Wellsite | Depart Wellsite | Name | Arrive Wellsite | Depart Wellsite |
|-----------------|-----------------|-----------------|------|-----------------|-----------------|------|-----------------|-----------------|
| Shawn McCaffrey | 2018-08-05 | 2018-08-09 | | | | | | |

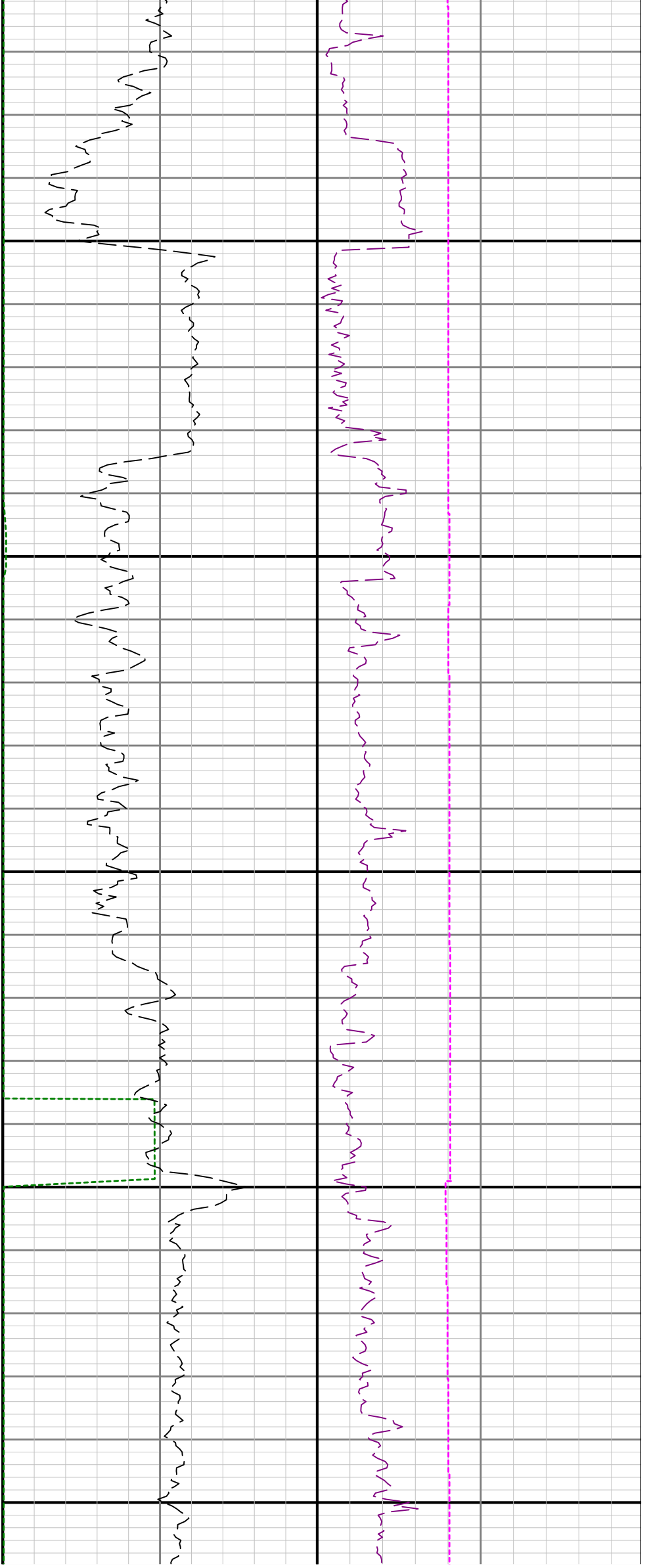
Mud Properties Record

| Date / Time | Run No. | Measured Depth (ft) | Mud Type | Density (ppg) | Viscosity (cP) | pH | Fluid Loss (cm3) | Oil / Water | Source | Total Chlorides (ppm) | K+ (%) |
|------------------|---------|---------------------|-----------------|---------------|----------------|-----|------------------|-------------|------------|-----------------------|--------|
| 2018-05-22 15:47 | 1 | 4.00 | Water Based Mud | 8.4 | N/A | N/A | N/A | N/A | Active Pit | 800 | 0.00 |
| 2018-08-05 11:28 | 2 | 1836.00 | Oil Based Mud | 9.6 | 13 | N/A | N/A | 88.1/11.9 | Active Pit | 34000 | 0.00 |
| 2018-08-06 03:30 | 3 | 2440.00 | Oil Based Mud | 9.4 | 7 | N/A | N/A | 88.8/11.2 | Active Pit | 31000 | 0.00 |
| 2018-08-06 14:30 | 3 | 6123.00 | Oil Based Mud | 9.4 | 10 | N/A | N/A | 88.8/11.2 | Active Pit | 30500 | 0.00 |
| 2018-08-07 03:30 | 3 | 8507.00 | Oil Based Mud | 9.8 | 13 | N/A | N/A | 86.3/13.7 | Active Pit | 35500 | 0.00 |
| 2018-08-07 15:00 | 3 | 11227.00 | Oil Based Mud | 9.8 | 16 | N/A | N/A | 86.1/13.9 | Active Pit | 34000 | 0.00 |

Equipment and Service Data

| Run No. | Tool | Serial Number | Measurement | Sensor Offset (ft) | Bit Offset (ft) | Max O.D. (in) | Min I.D. (in) |
|---------|------------|---------------|-------------------|--------------------|-----------------|---------------|---------------|
| 1 | Sensor Sub | ZAPS230930 | Directional (mag) | 12.35 | 59.80 | 8.000 | 0.000 |
| 1 | Sensor Sub | ZAPS230930 | VSS | 12.35 | 59.80 | 8.000 | 0.000 |

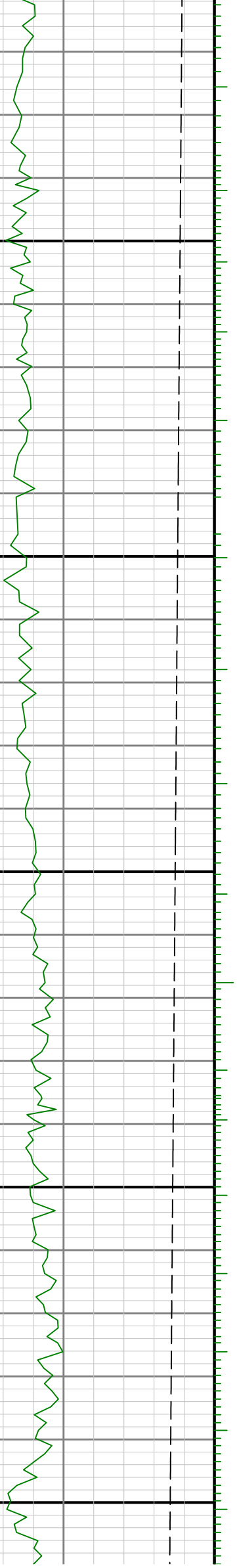




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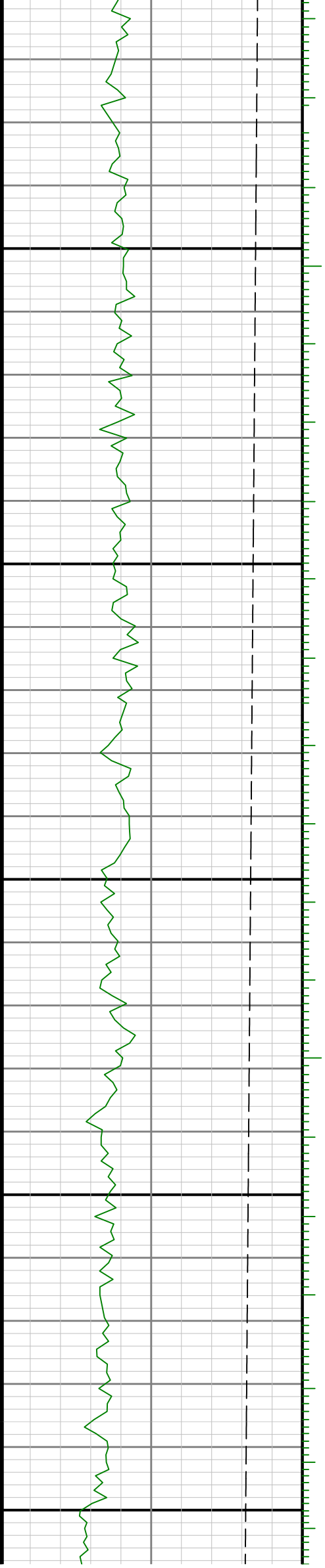
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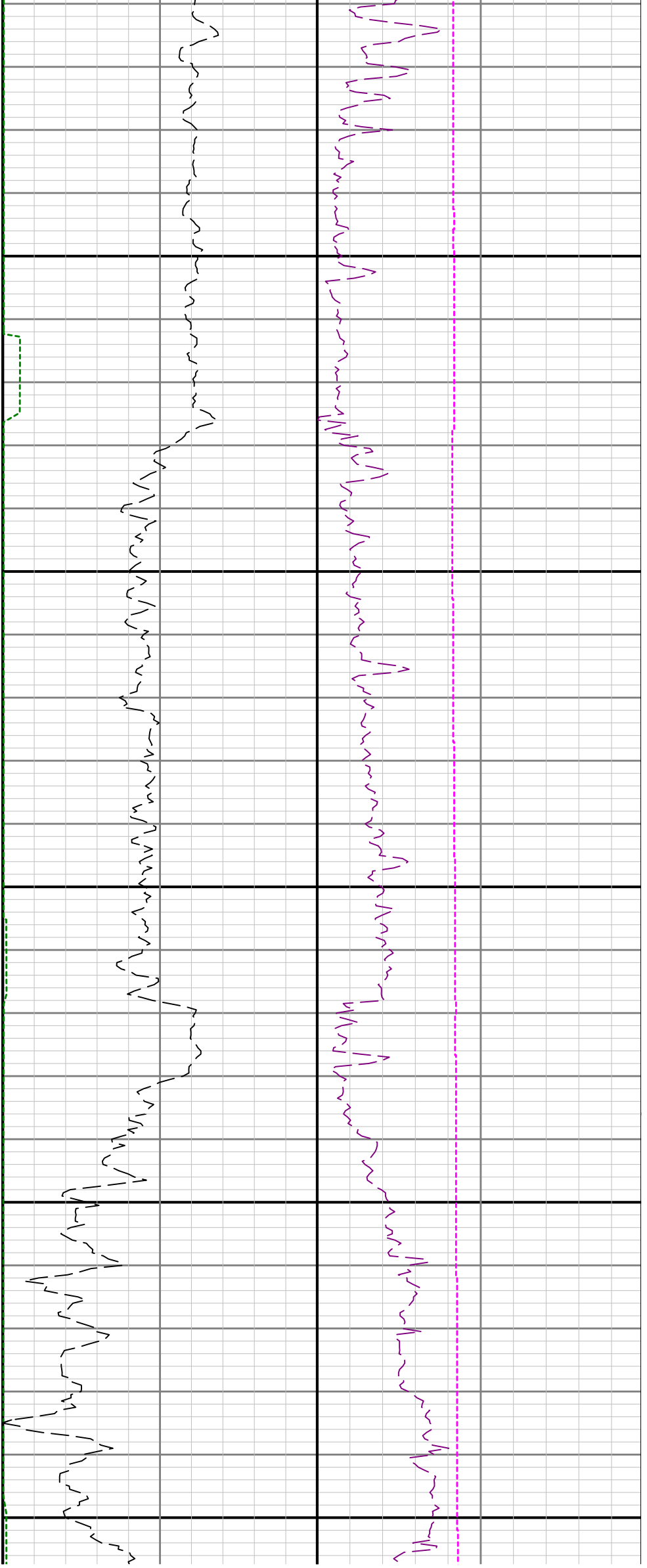




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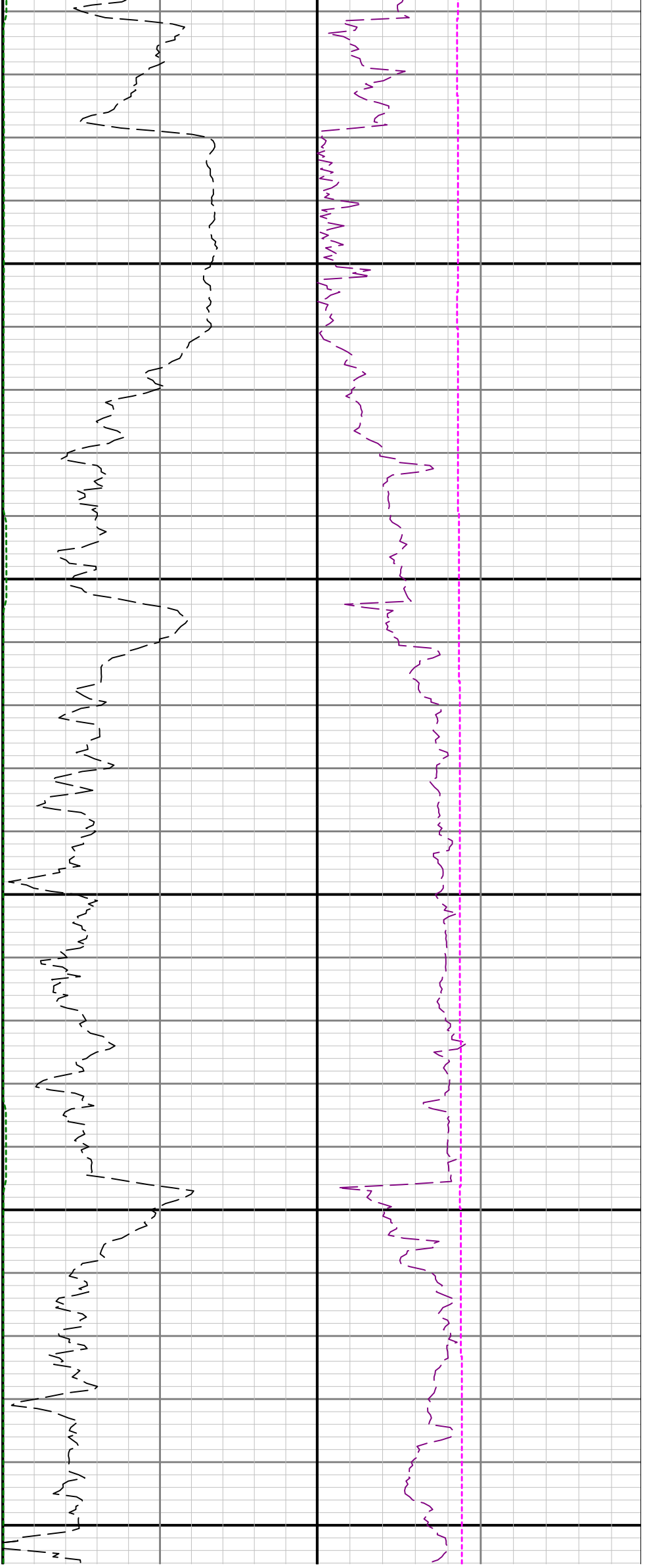




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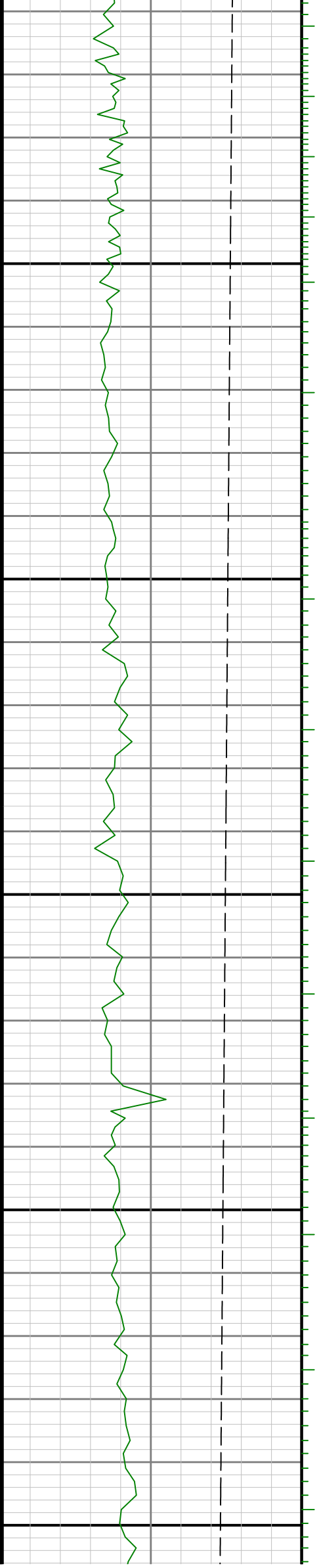
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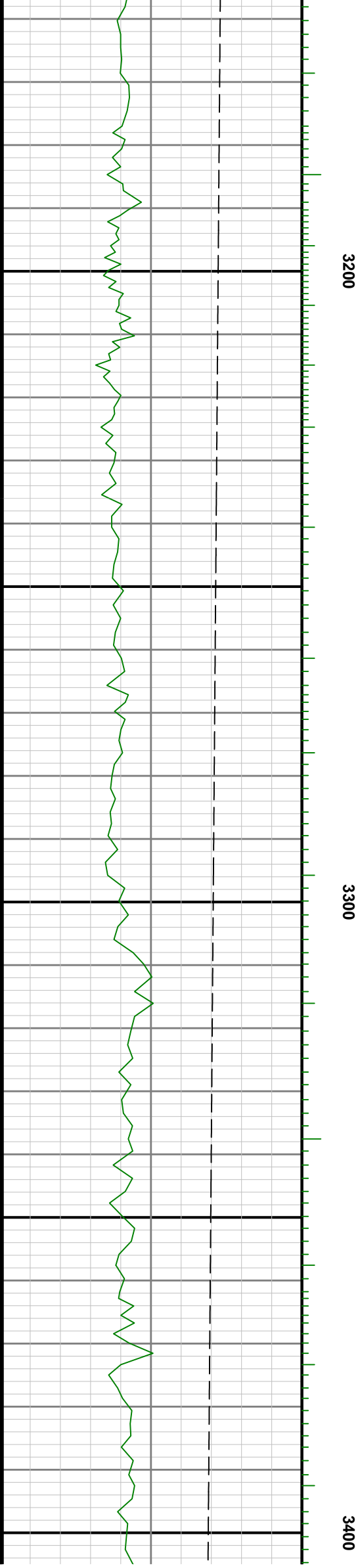
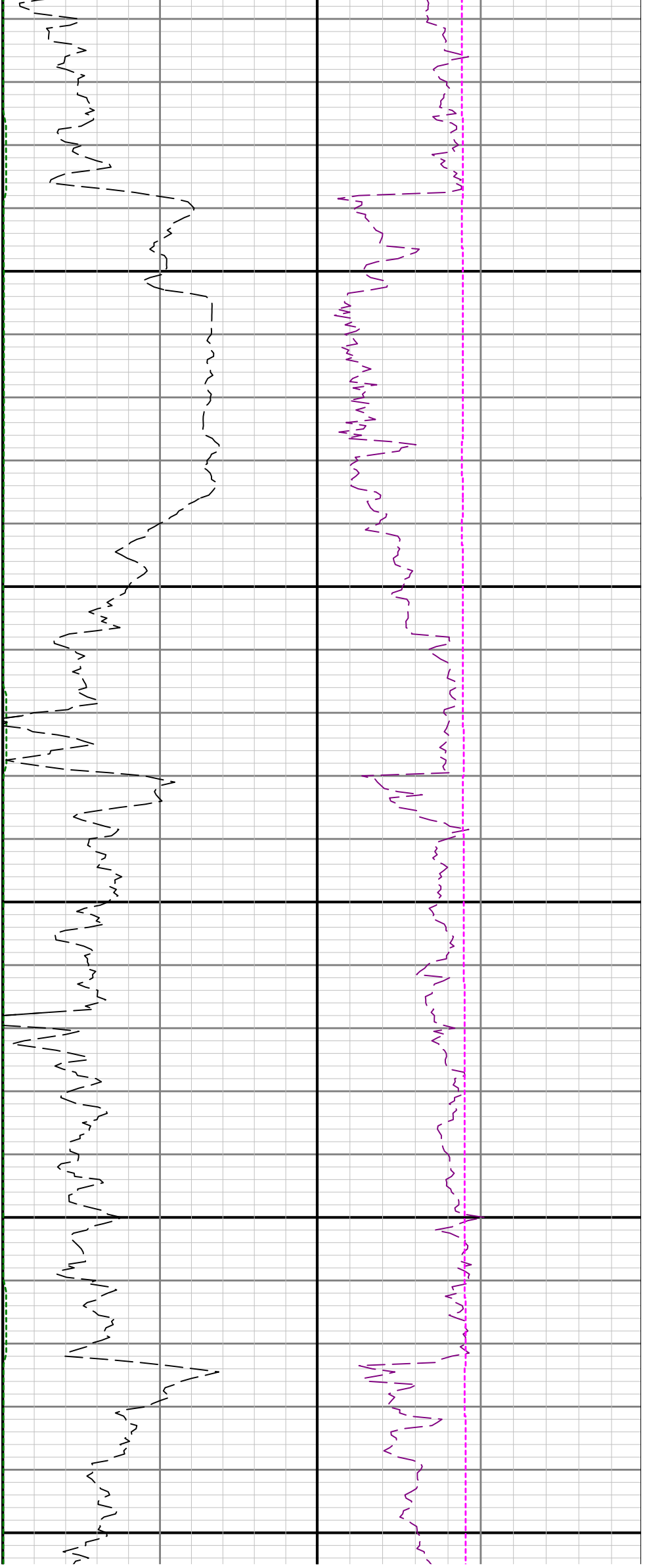
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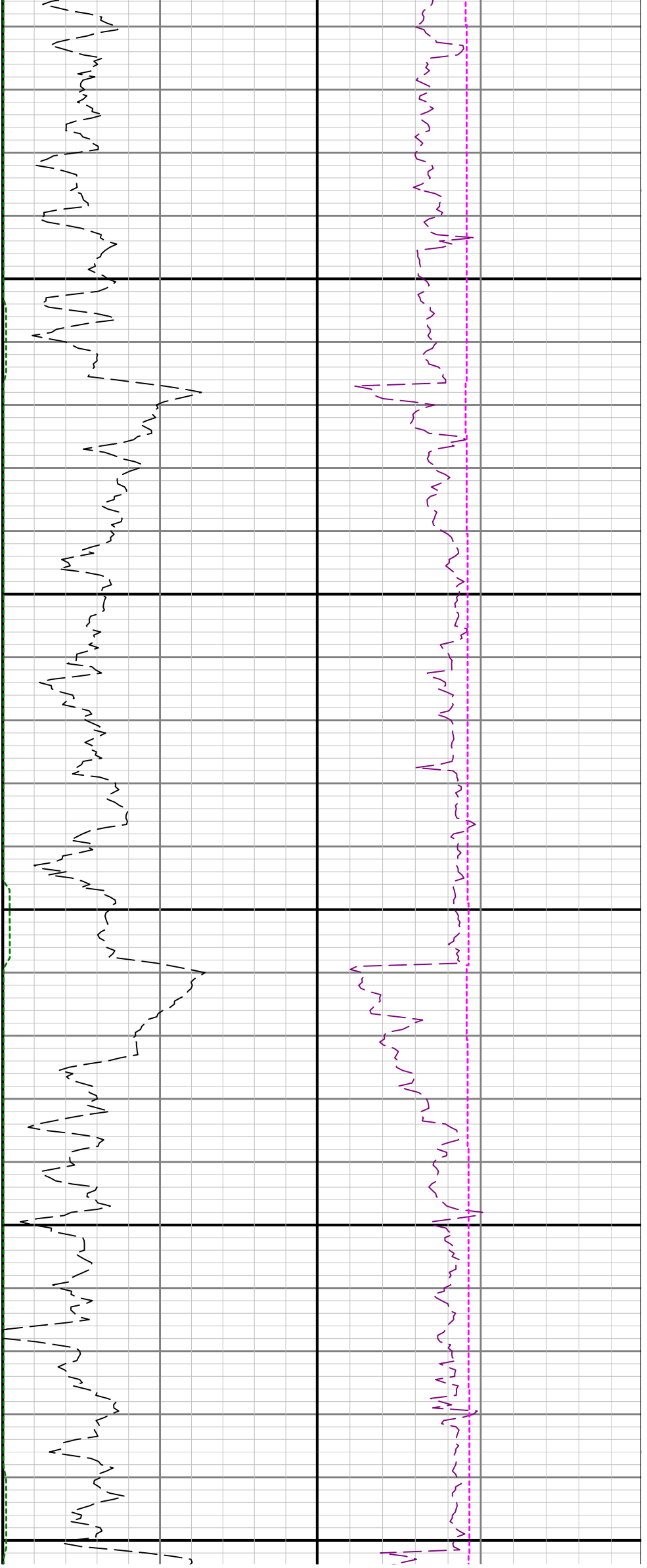


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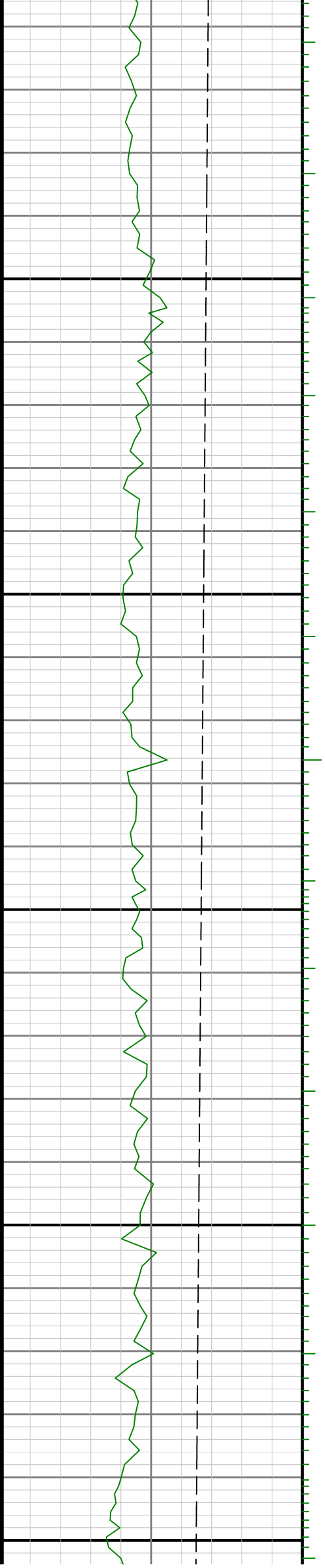


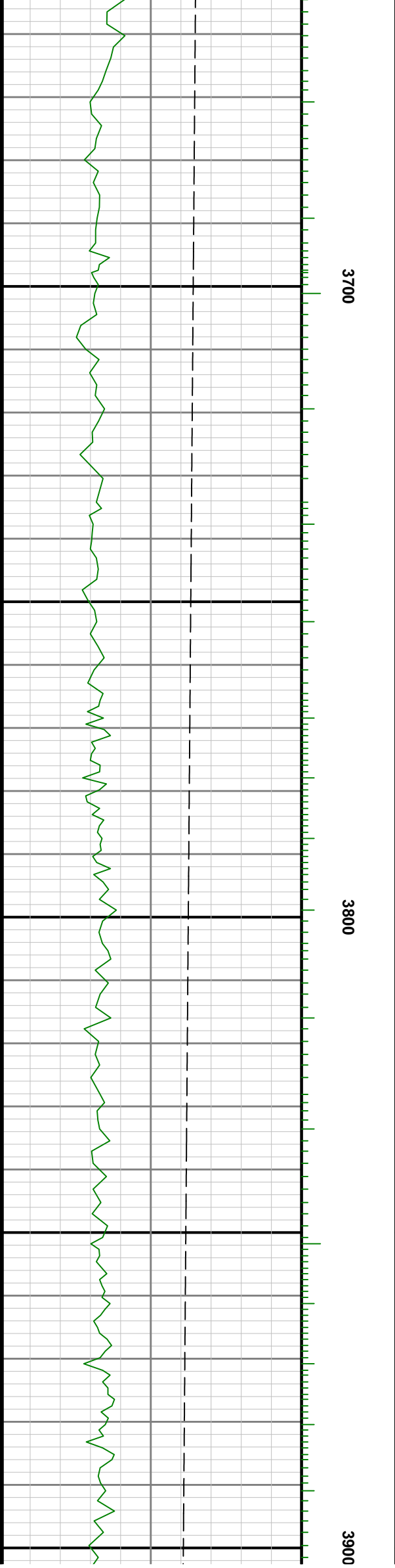
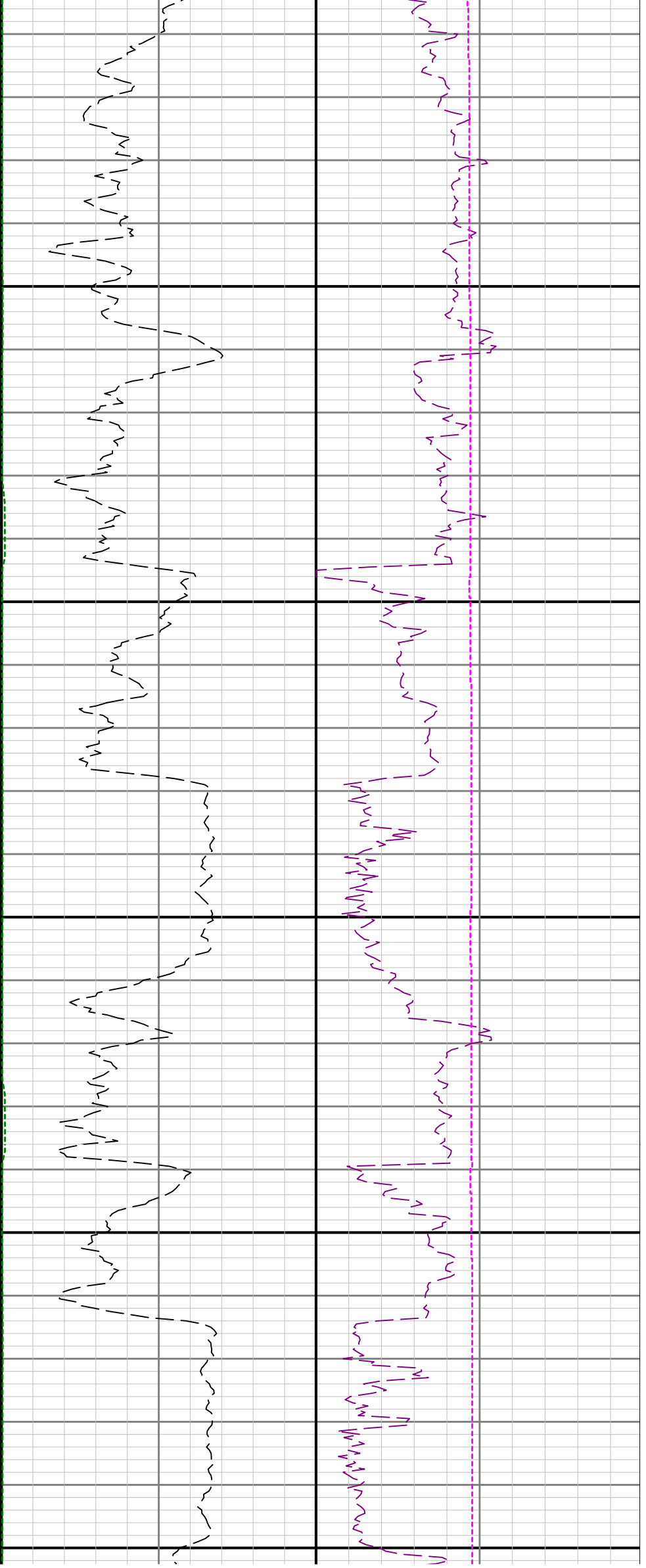


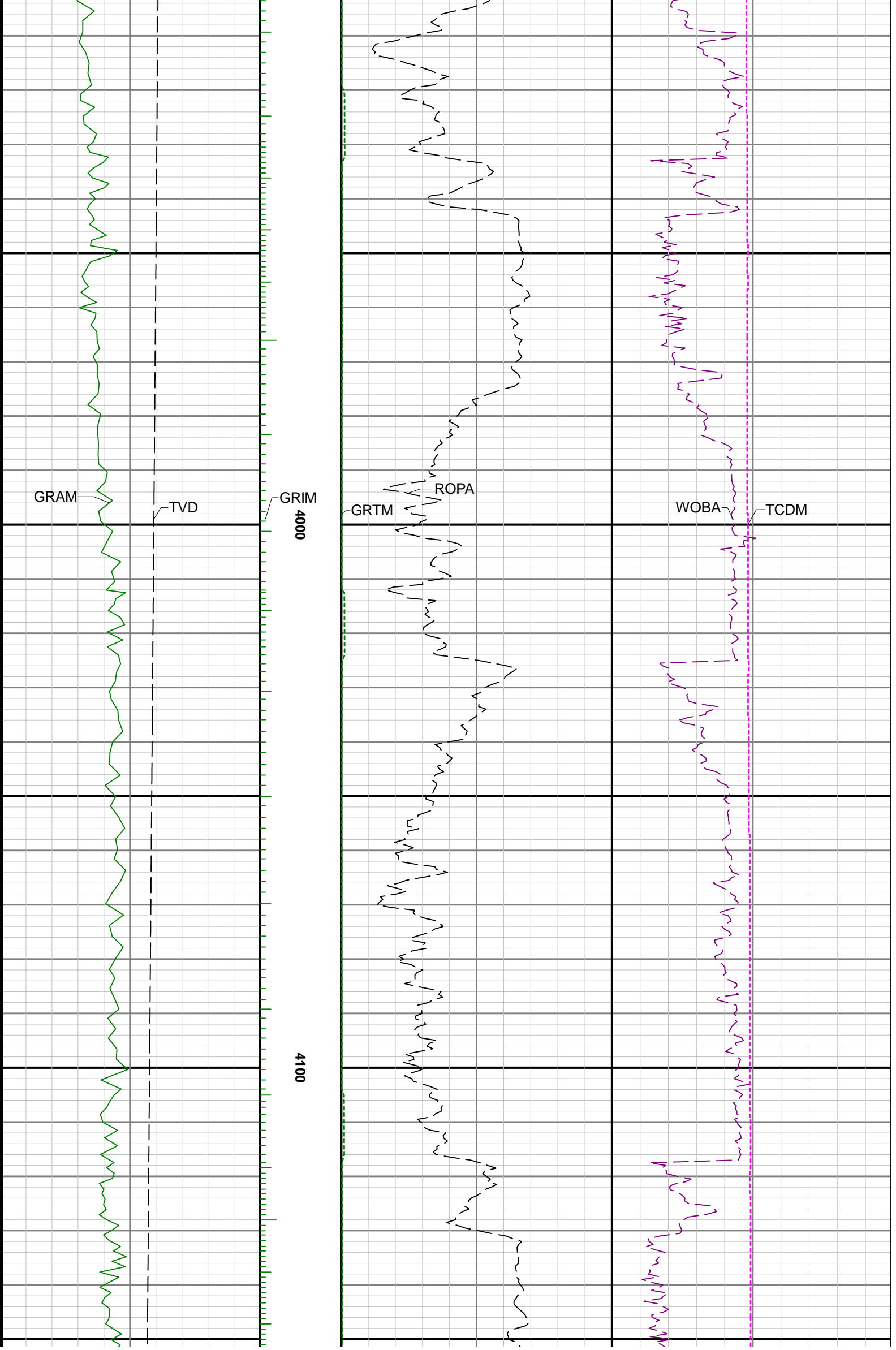


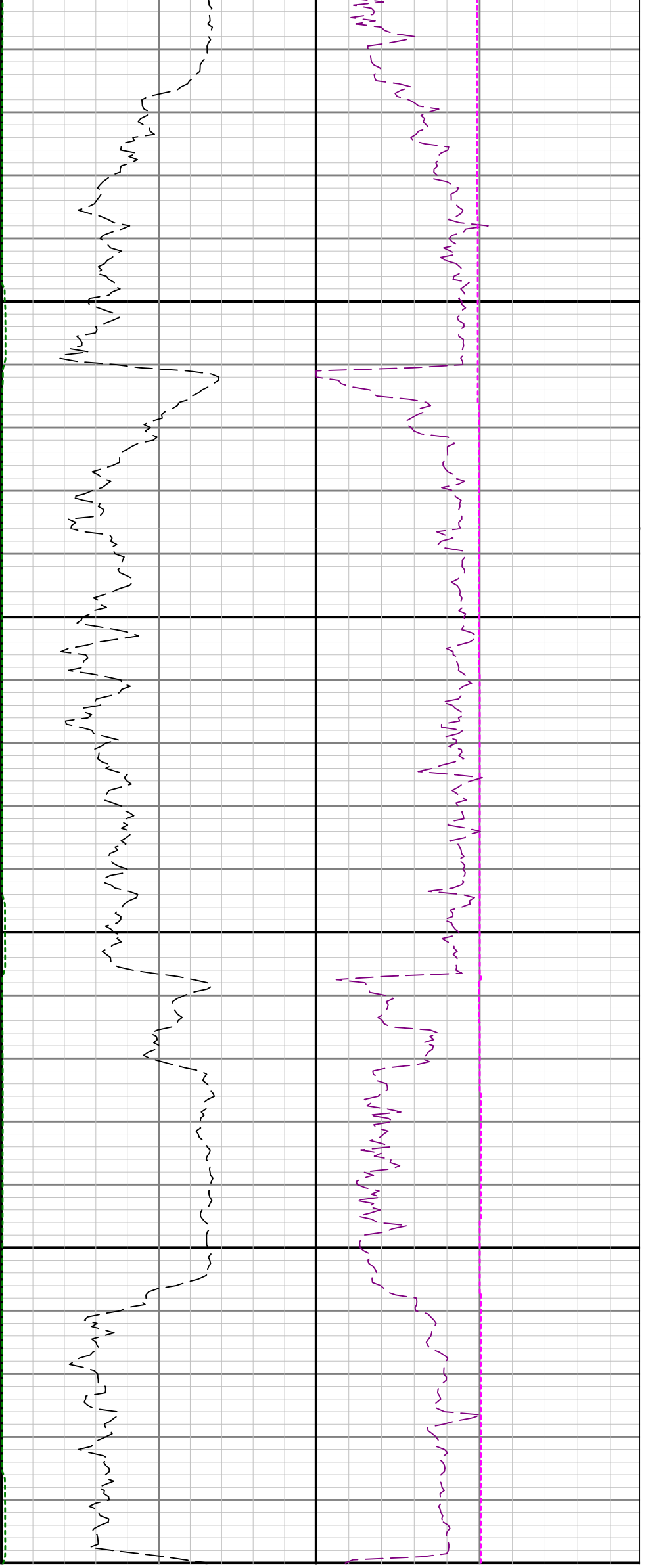
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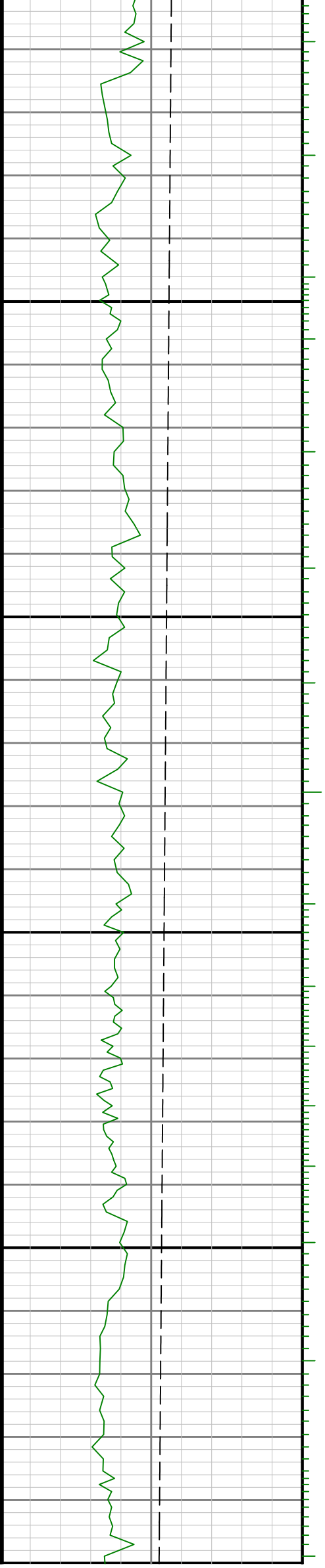


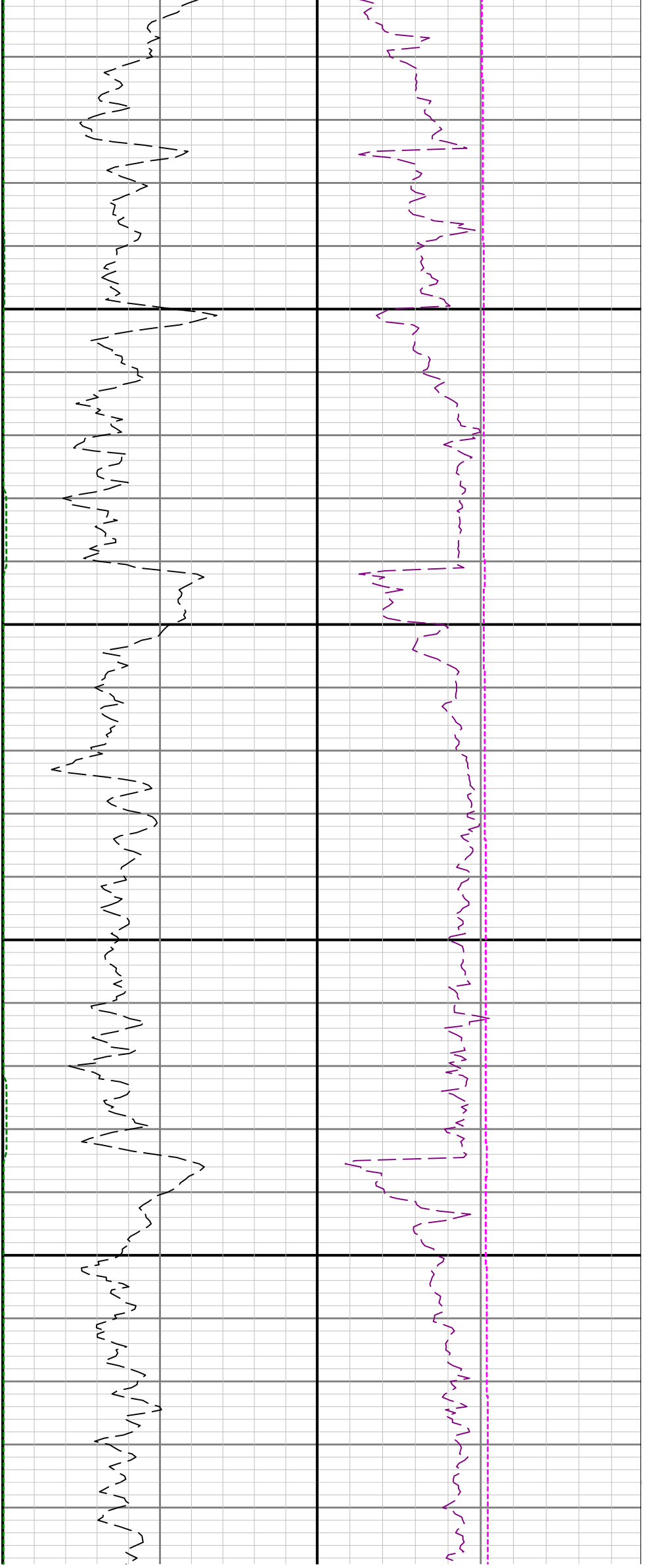


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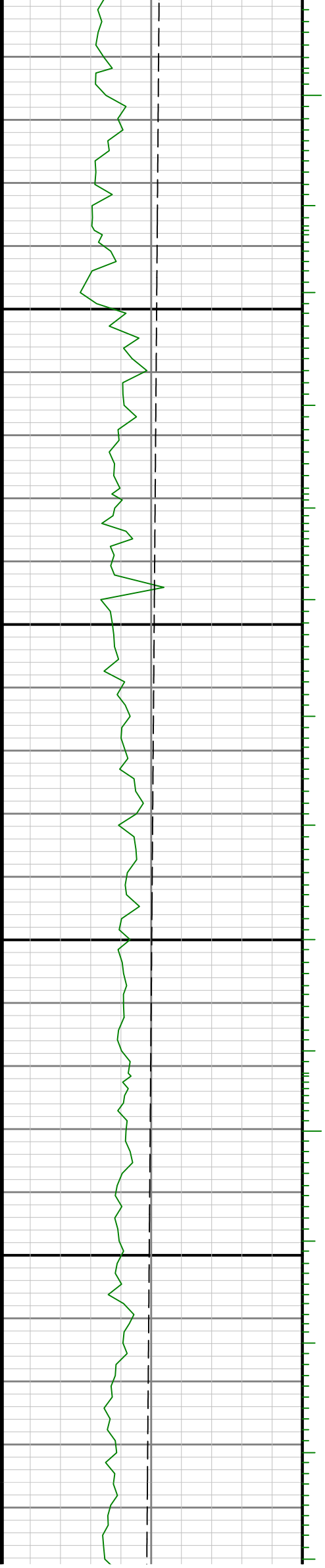
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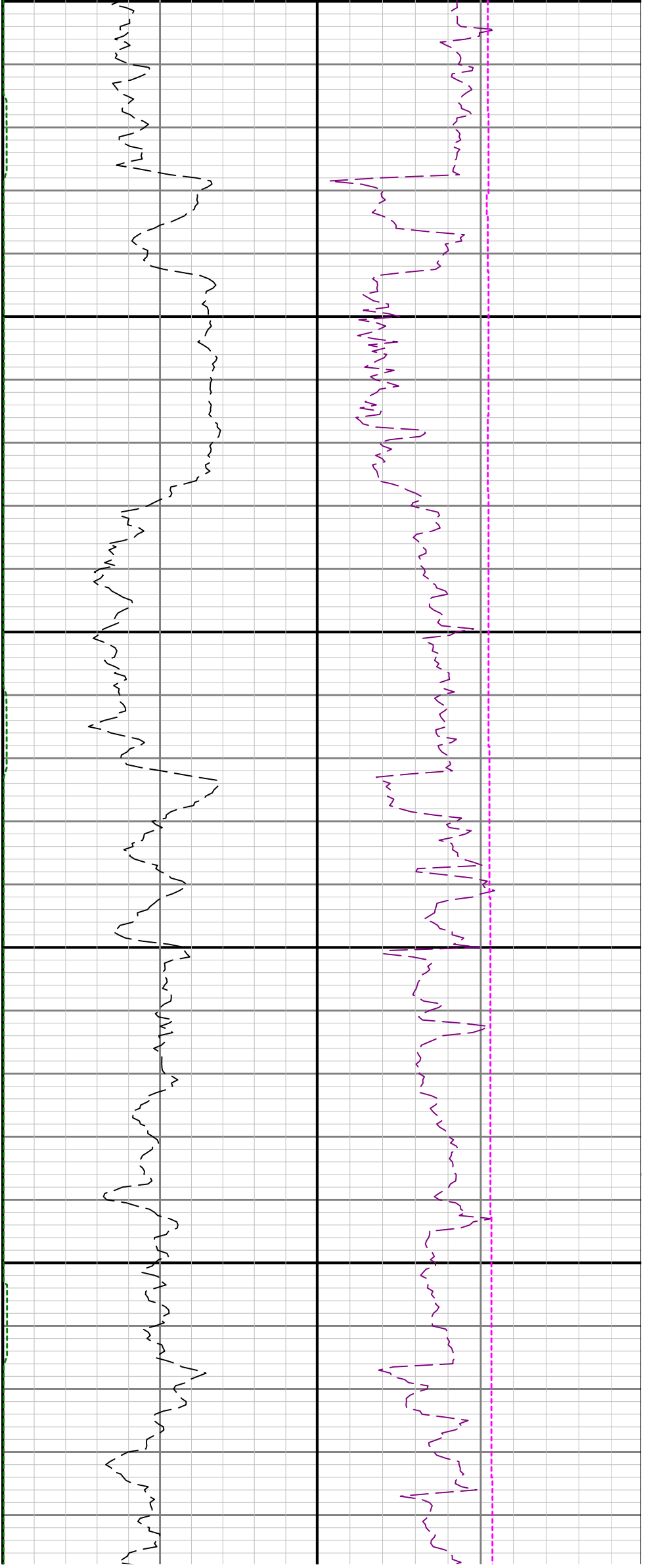




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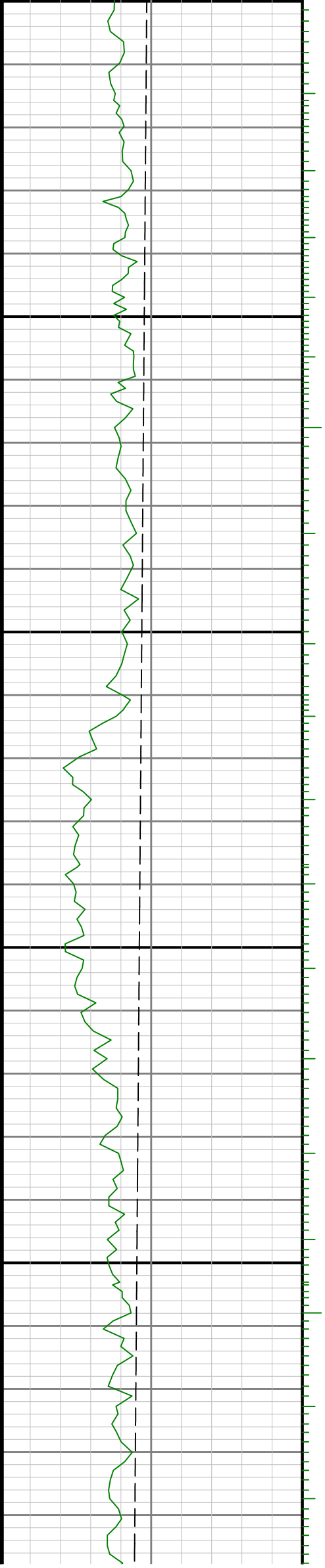
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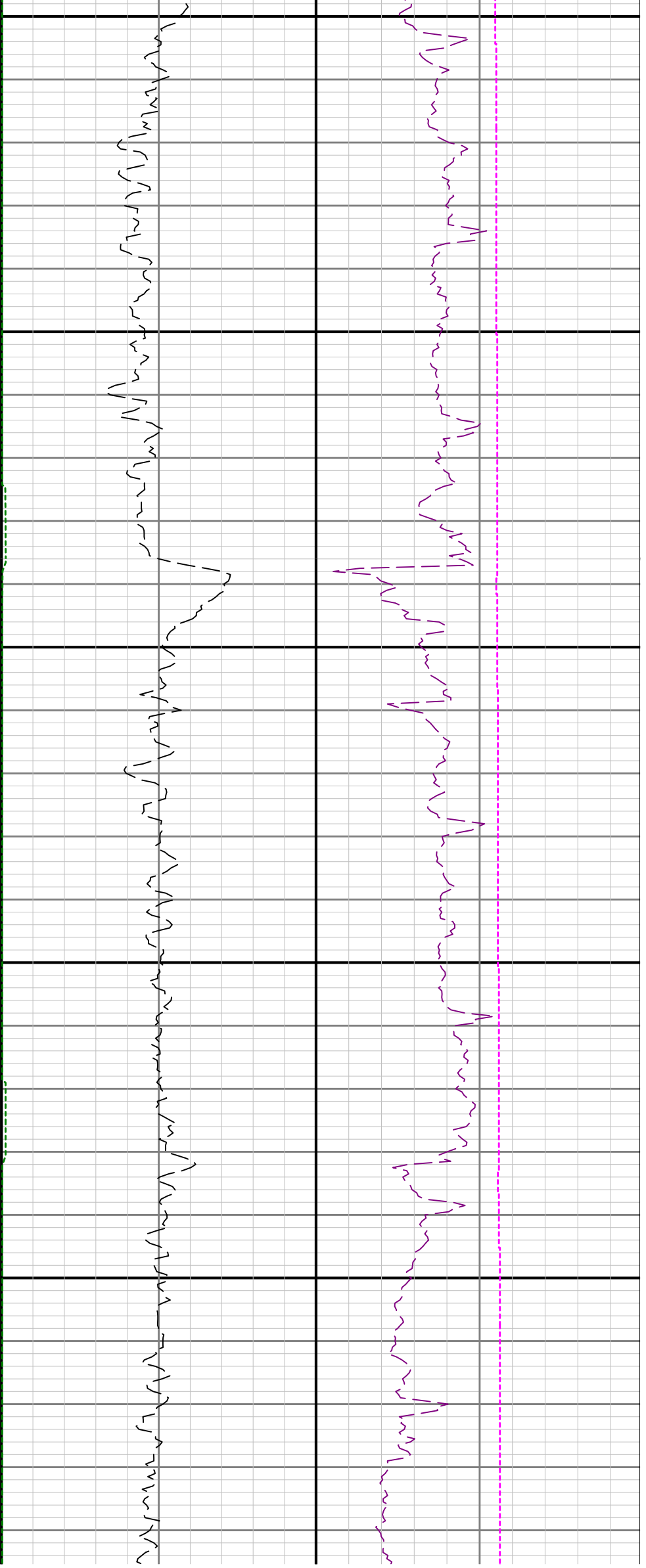




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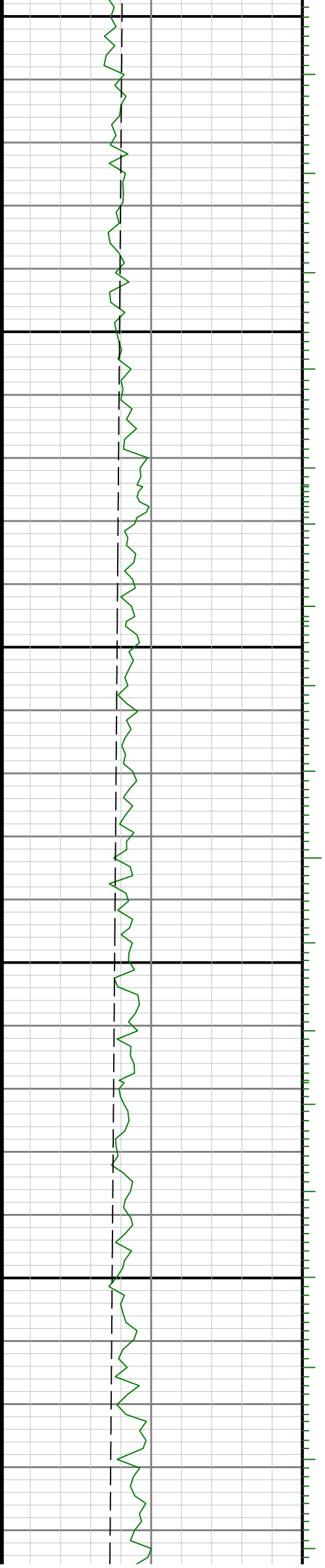
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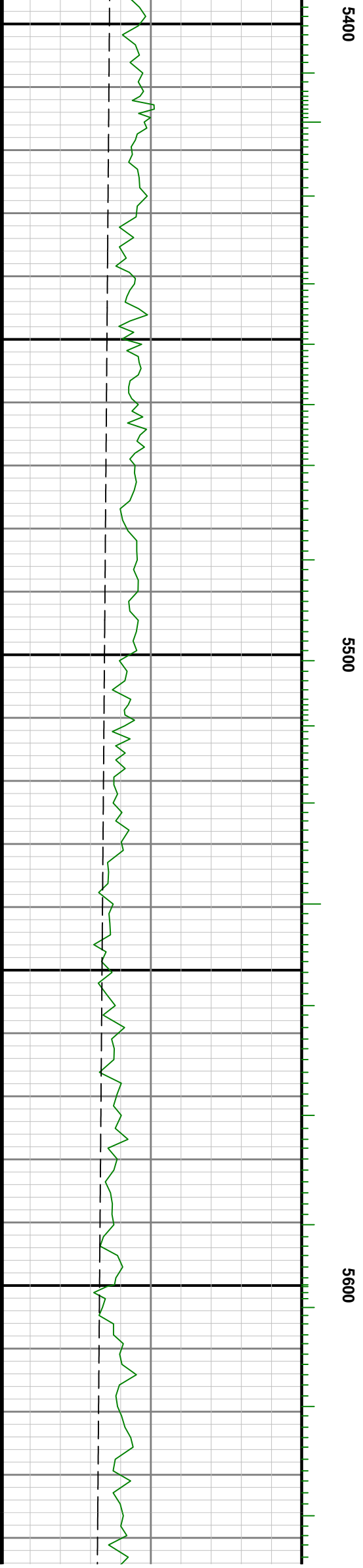
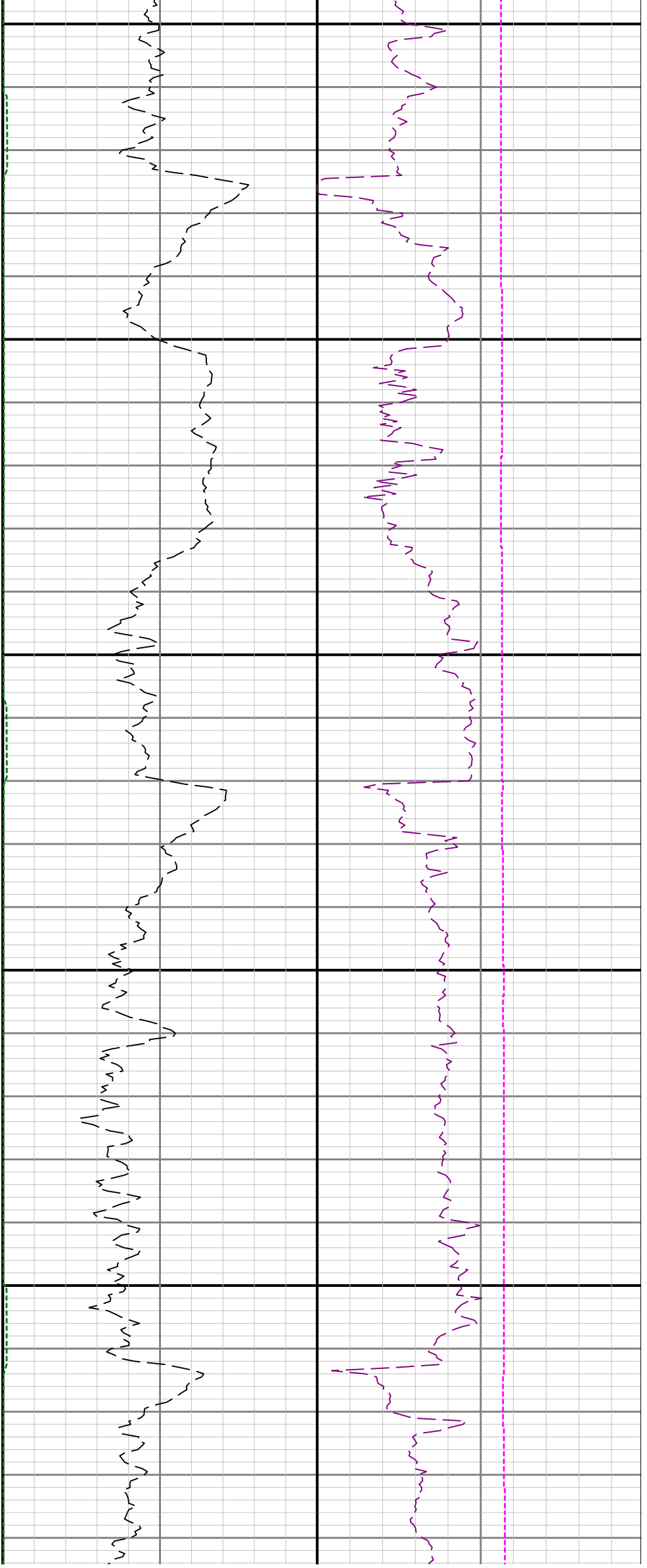


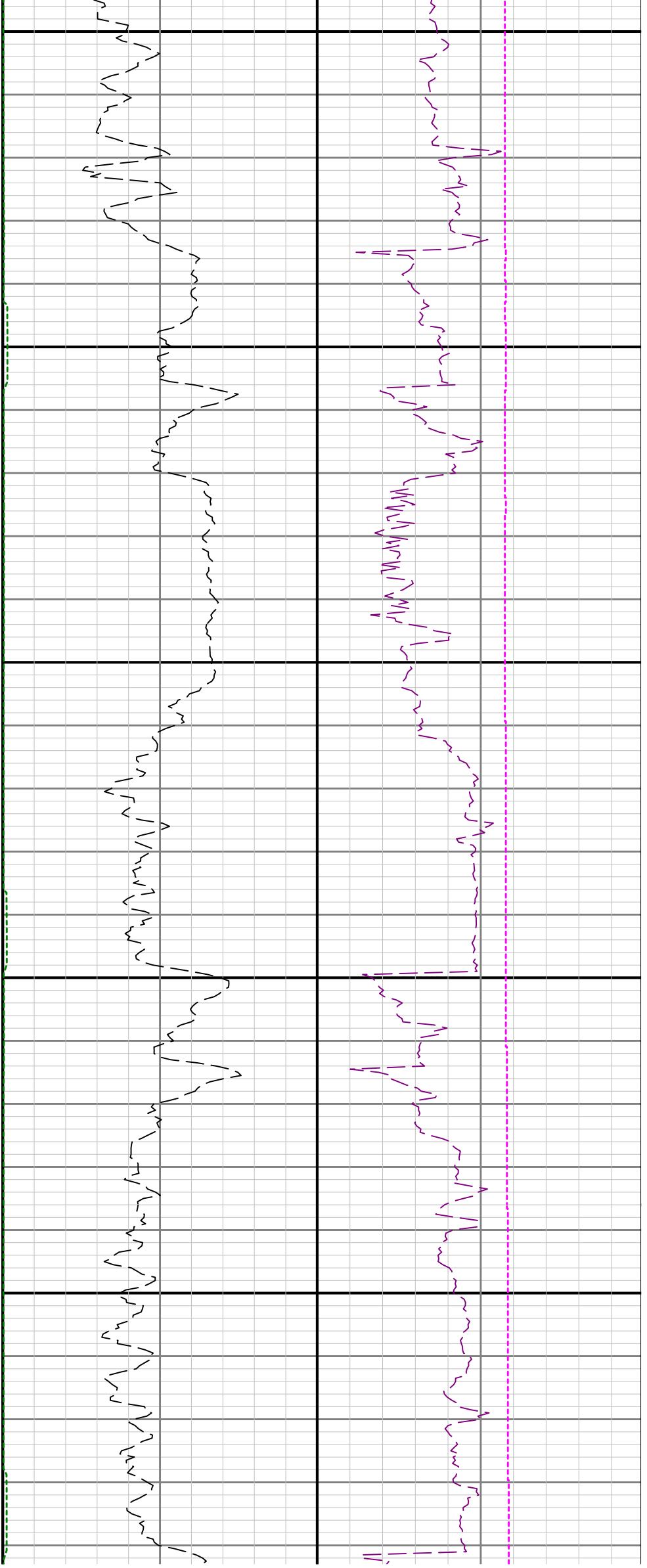


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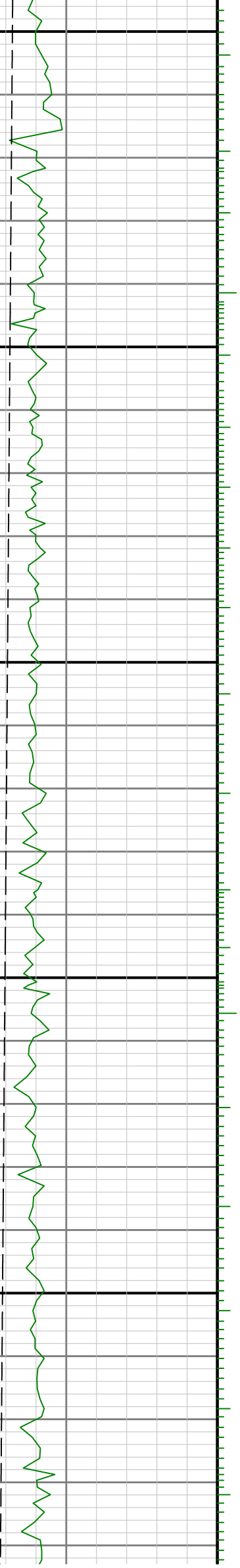


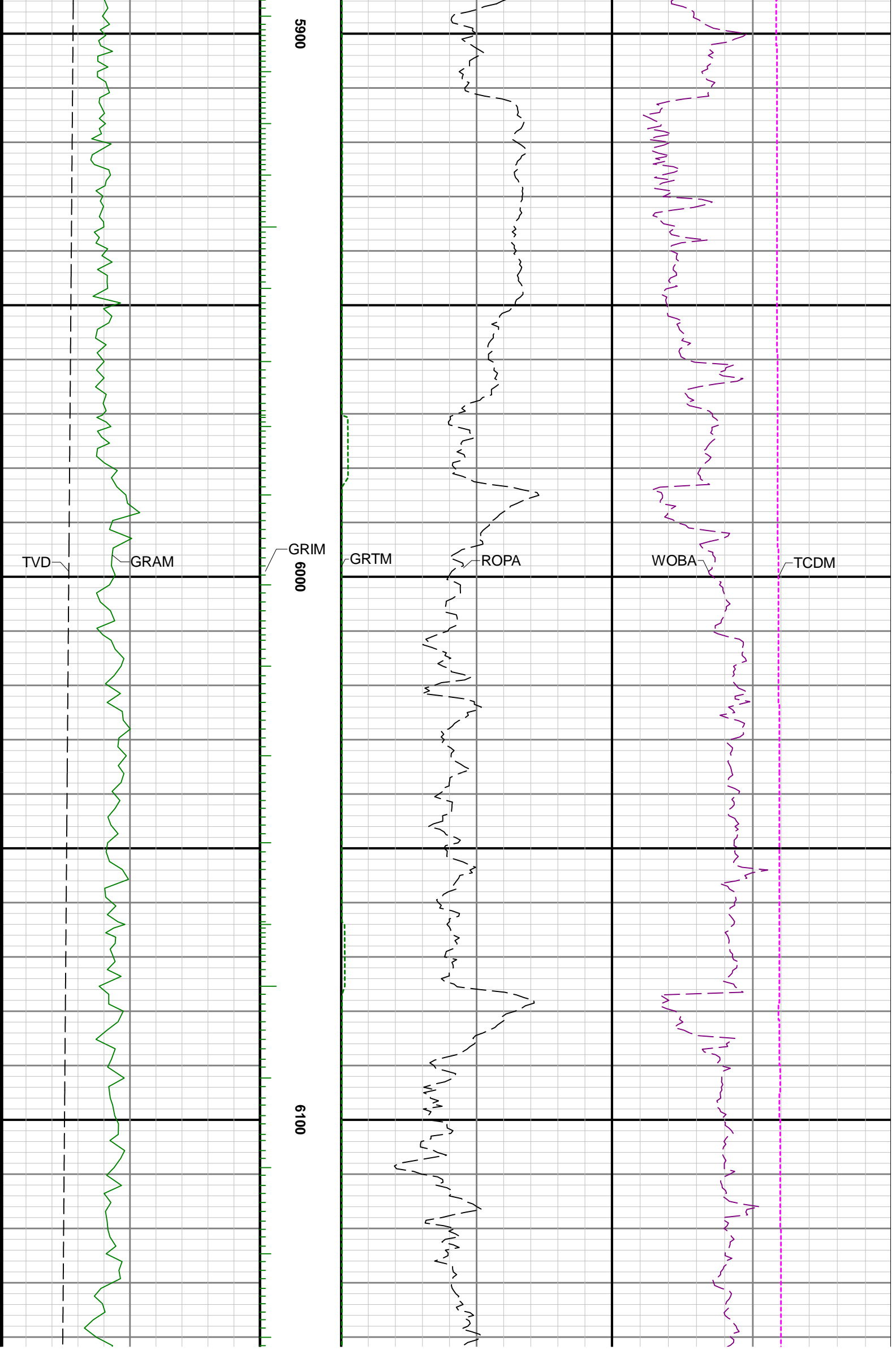


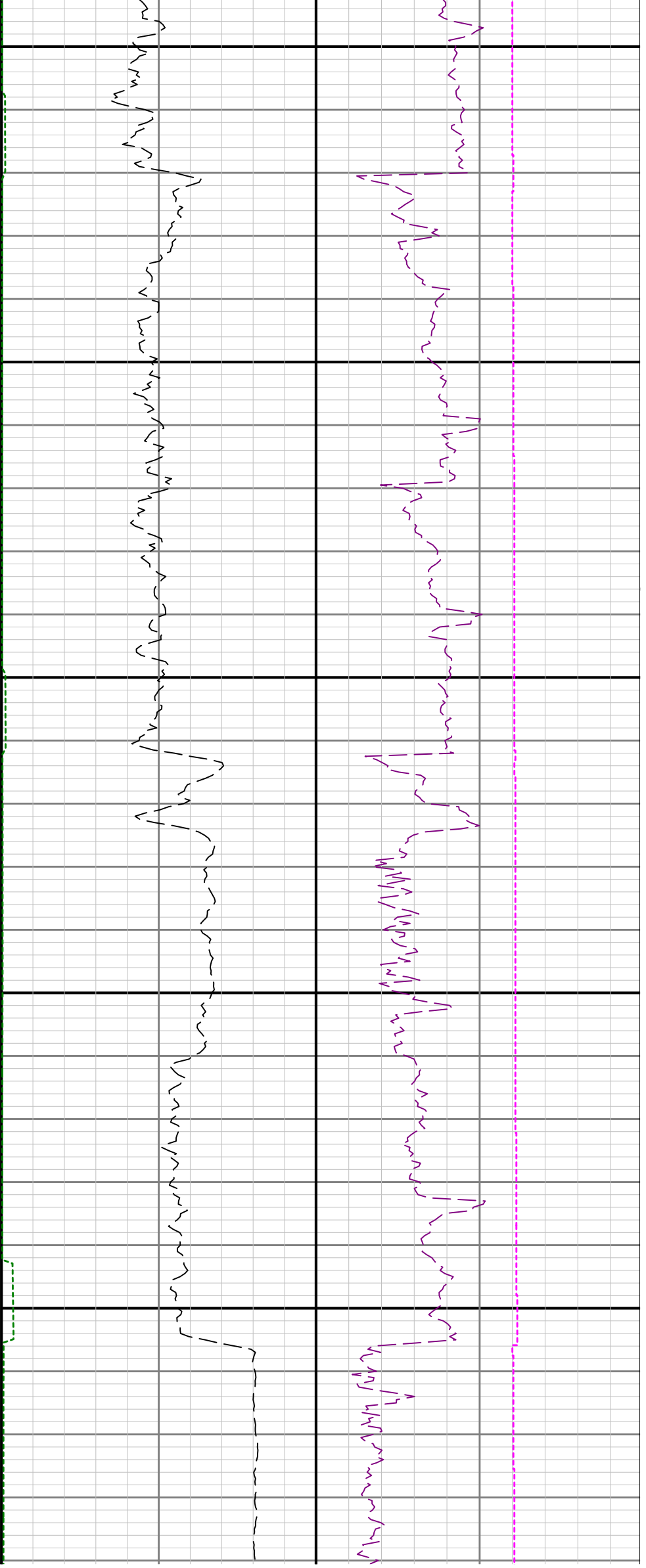


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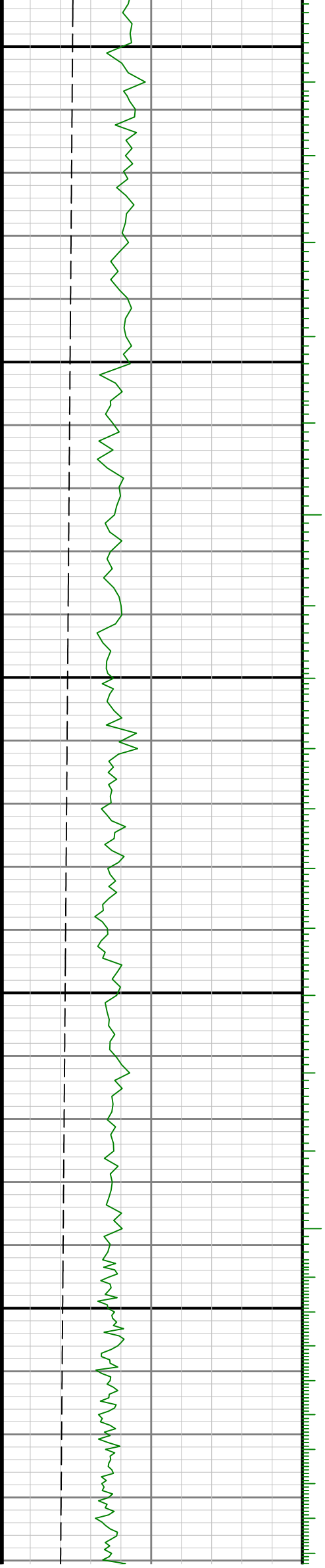


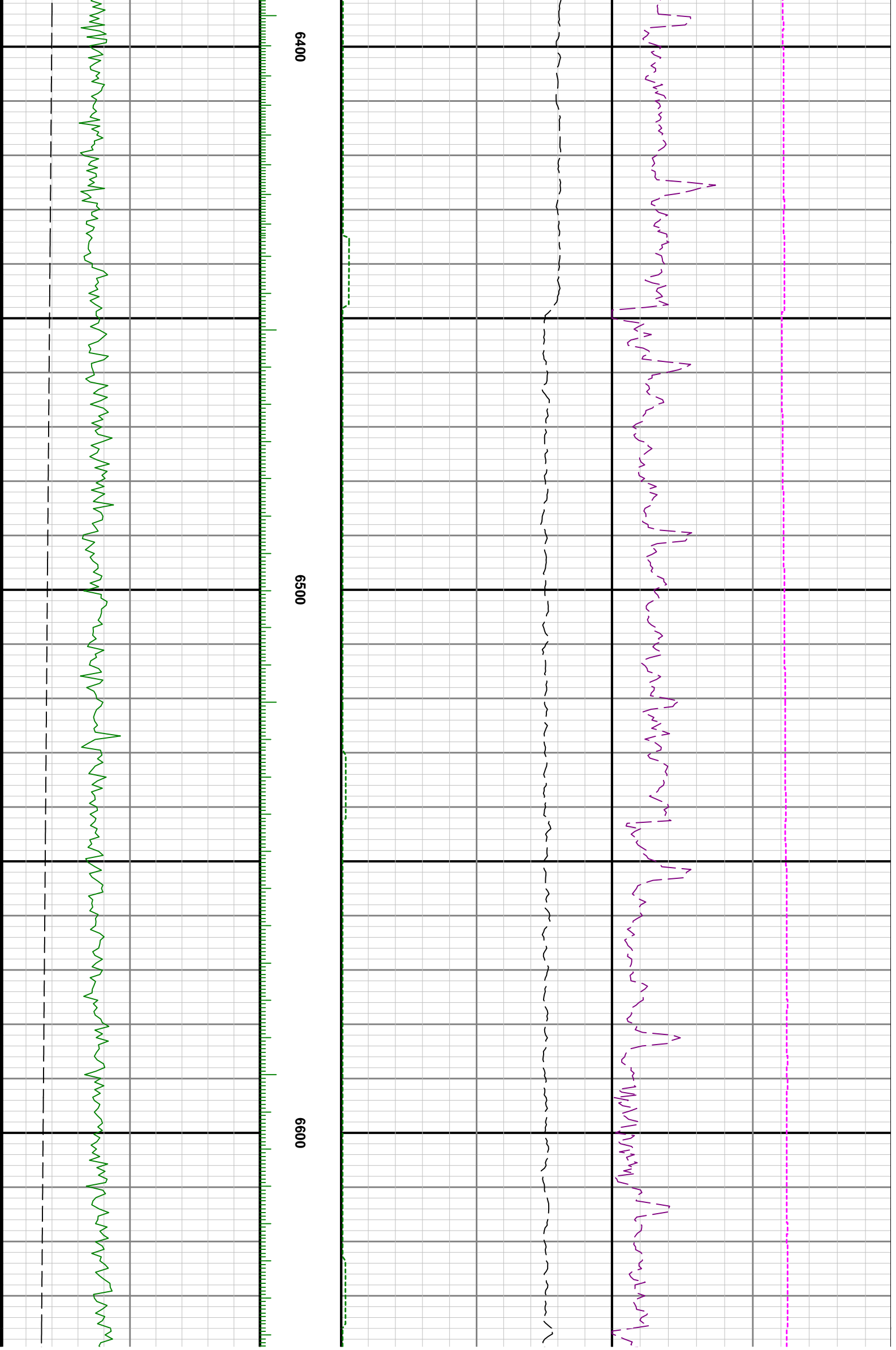


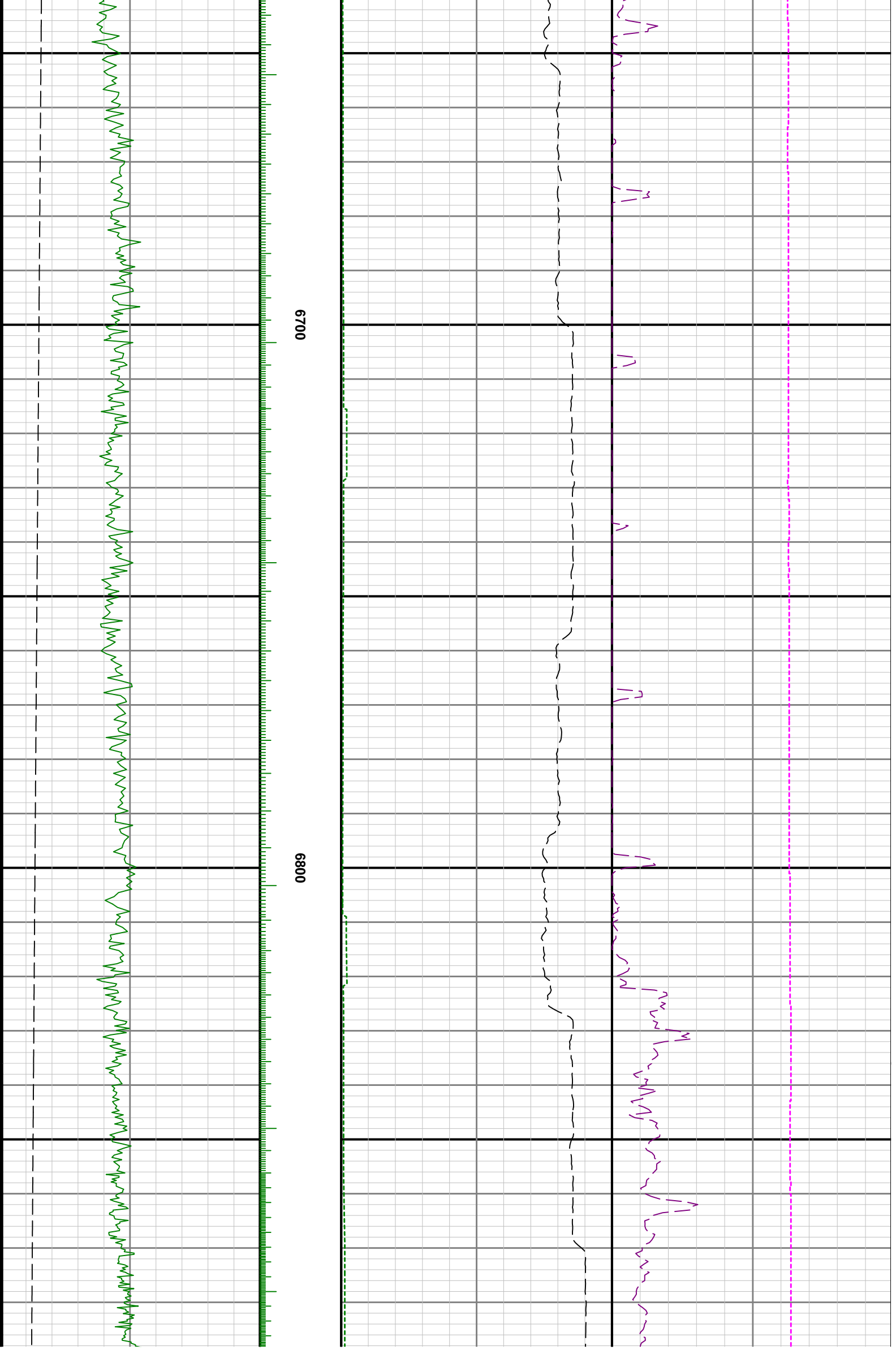


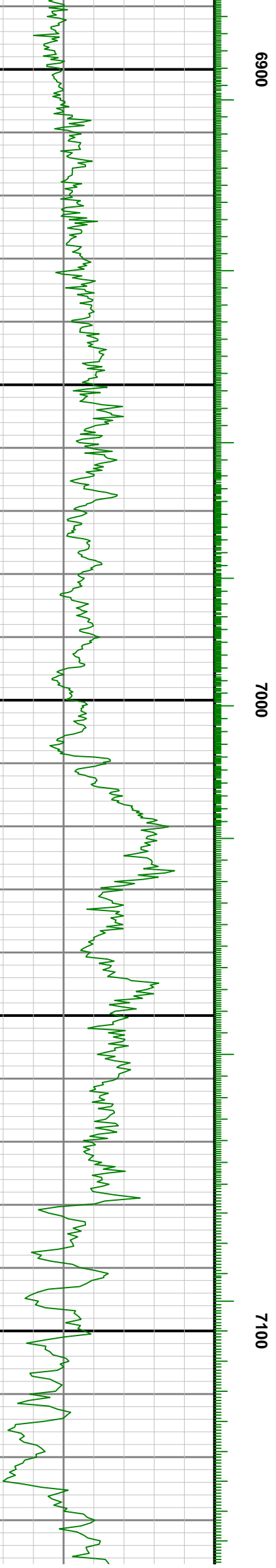
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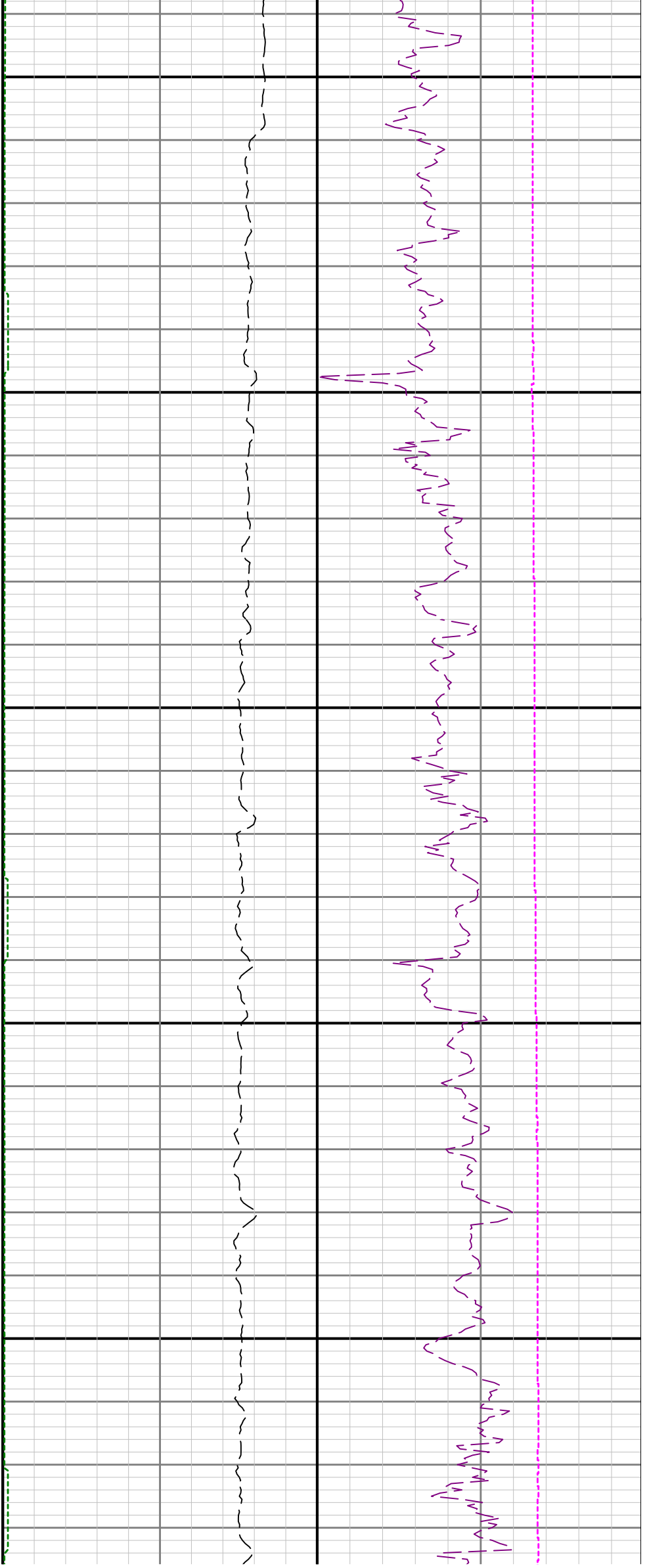
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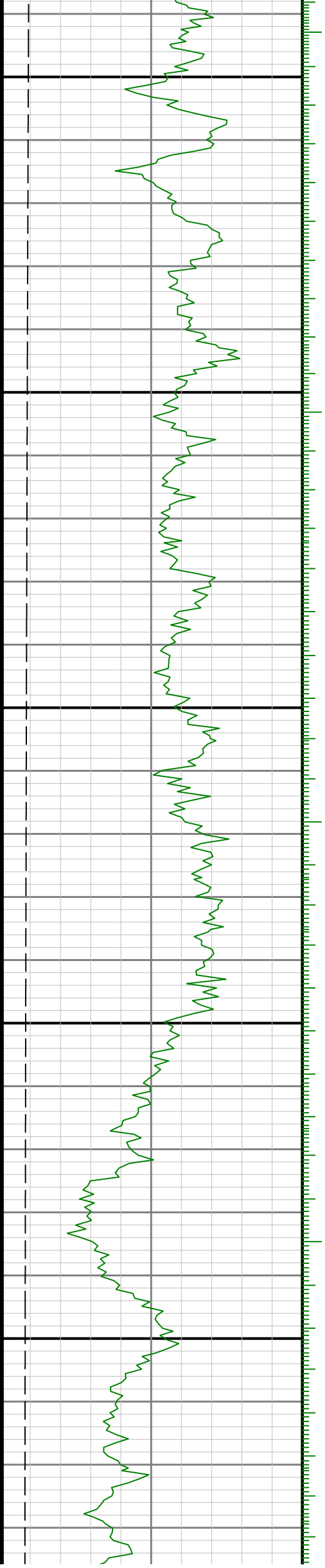


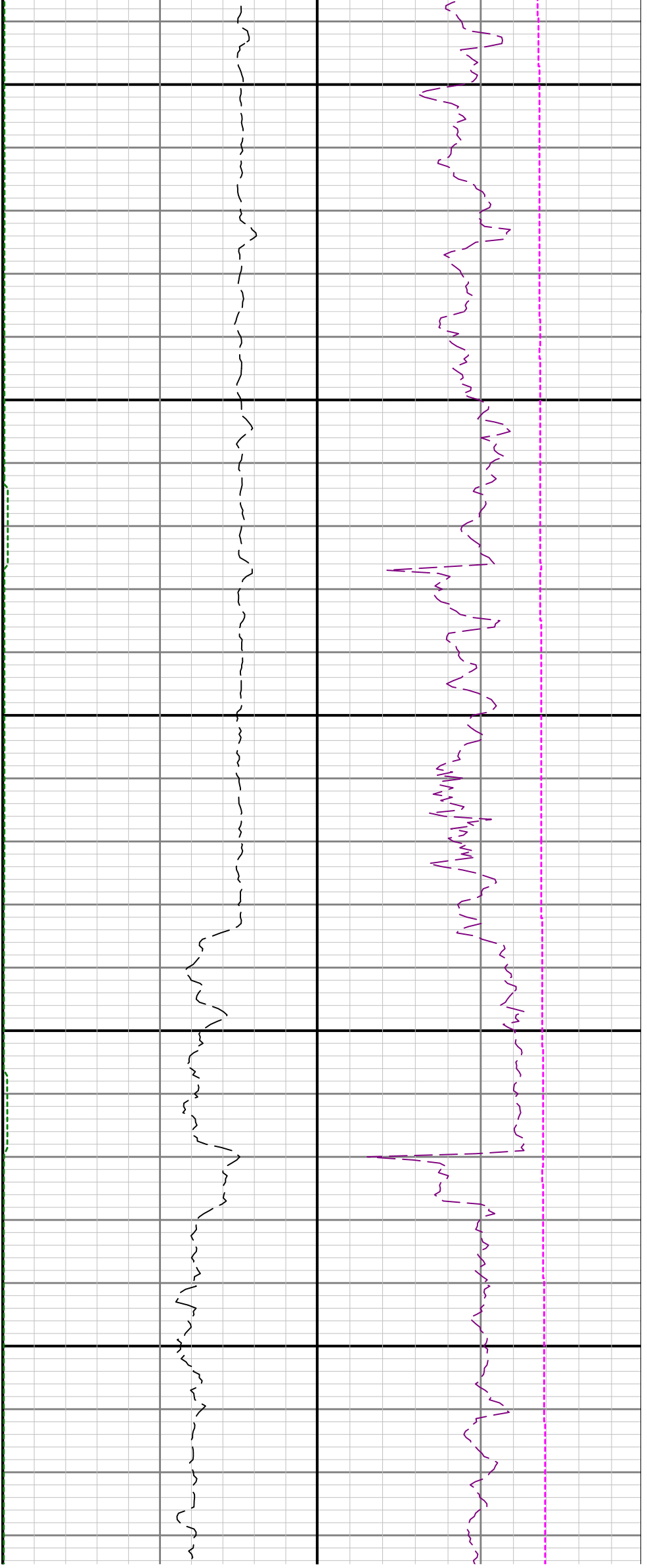




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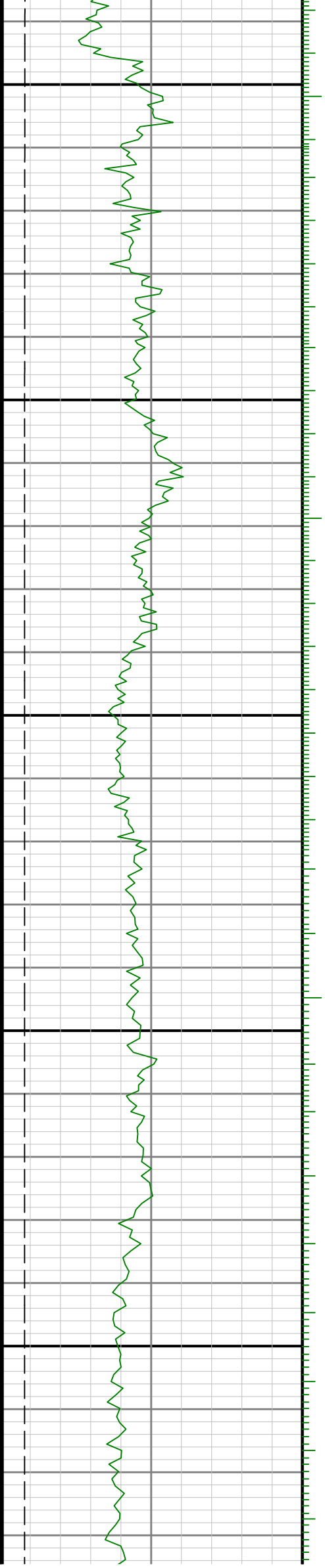


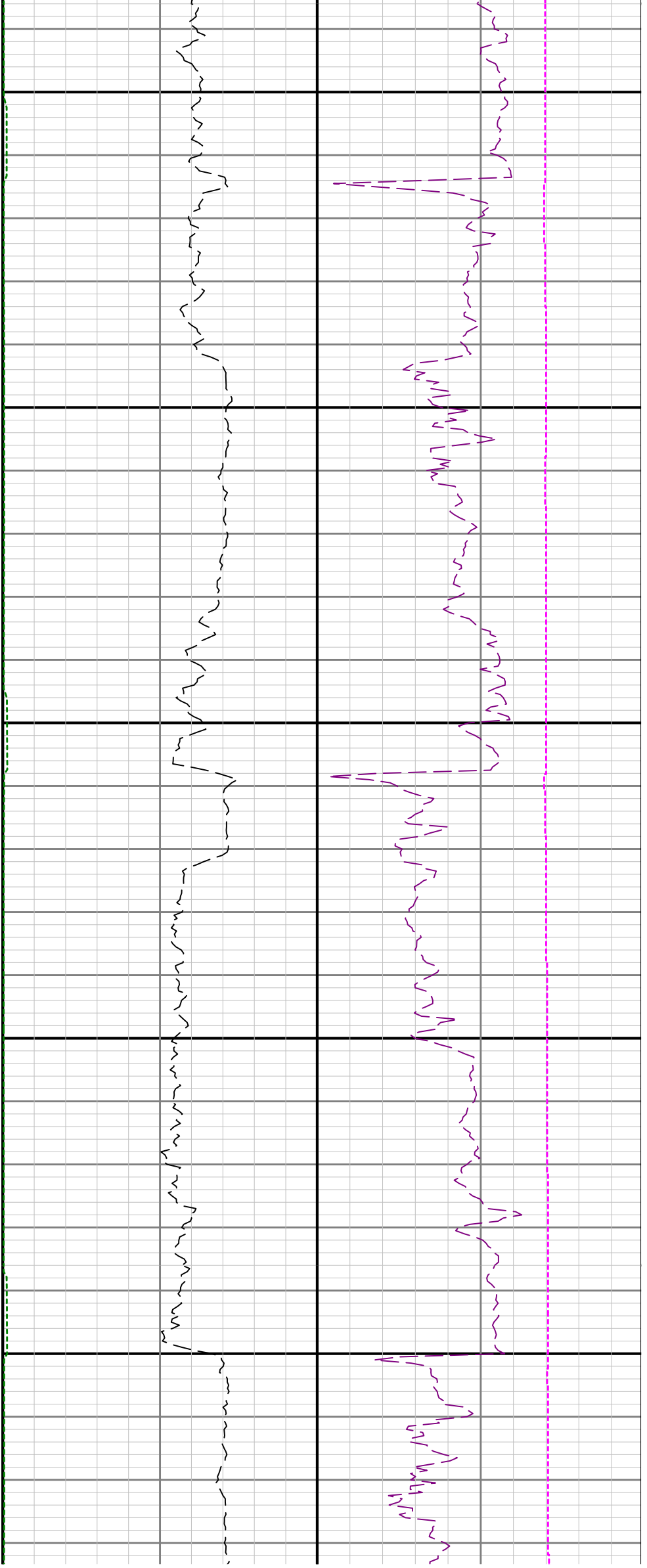


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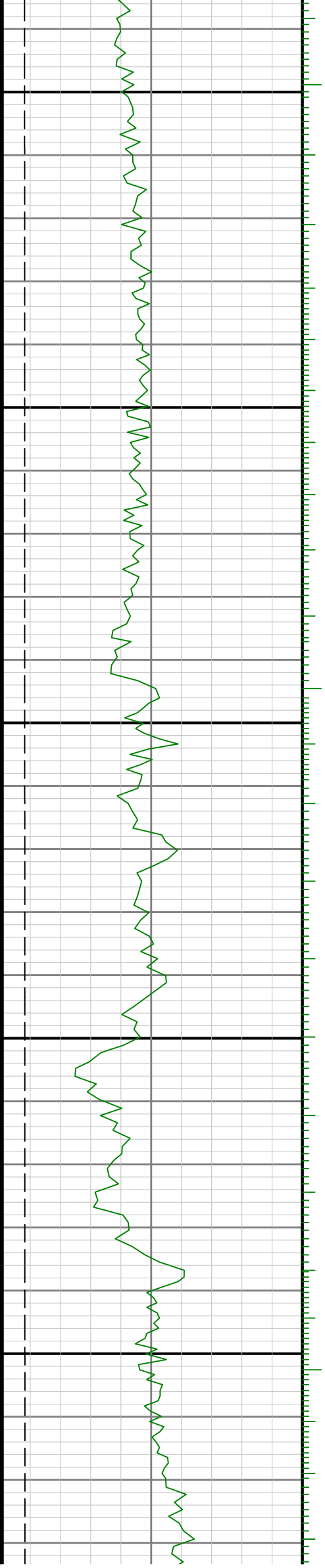
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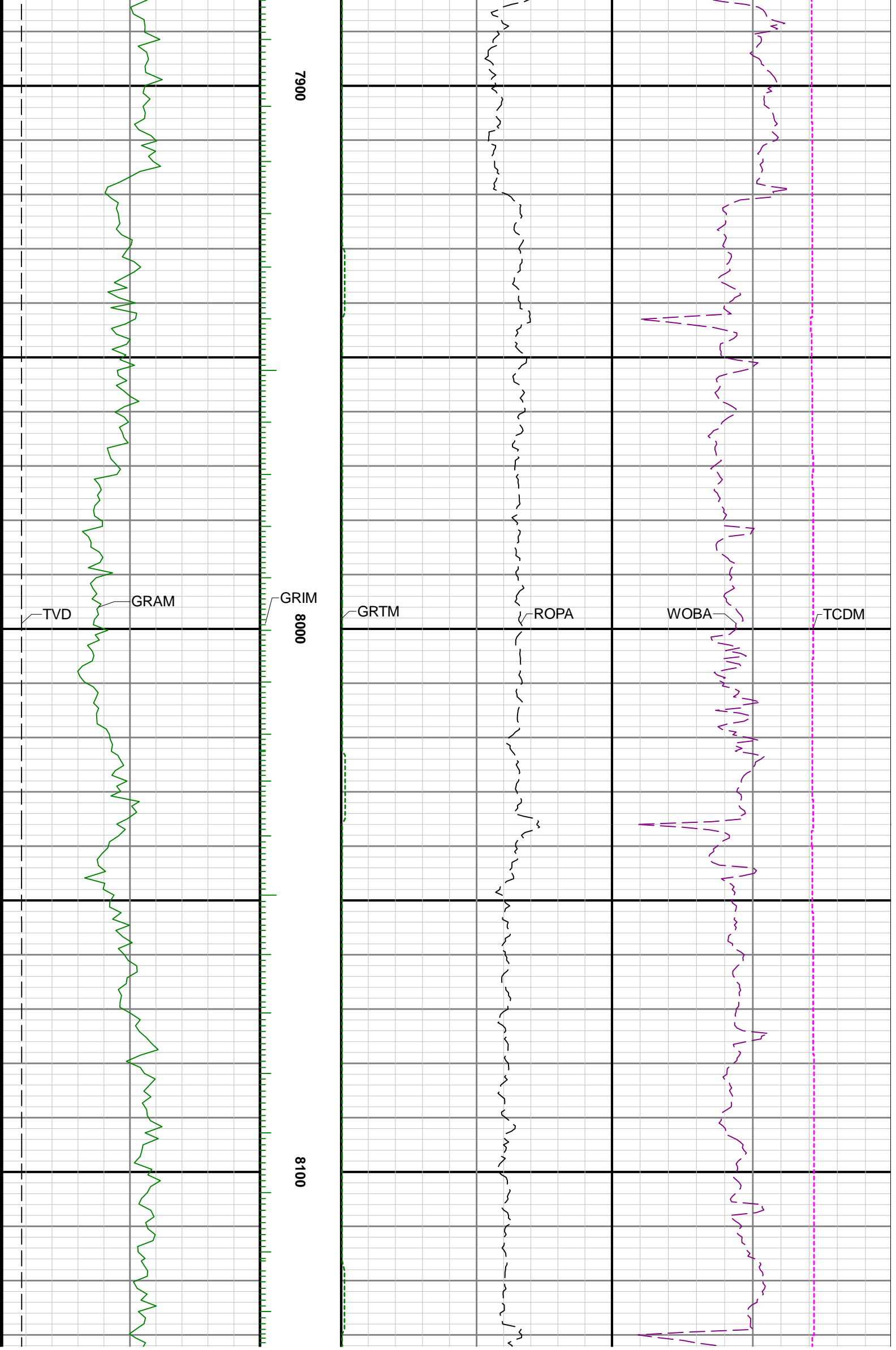


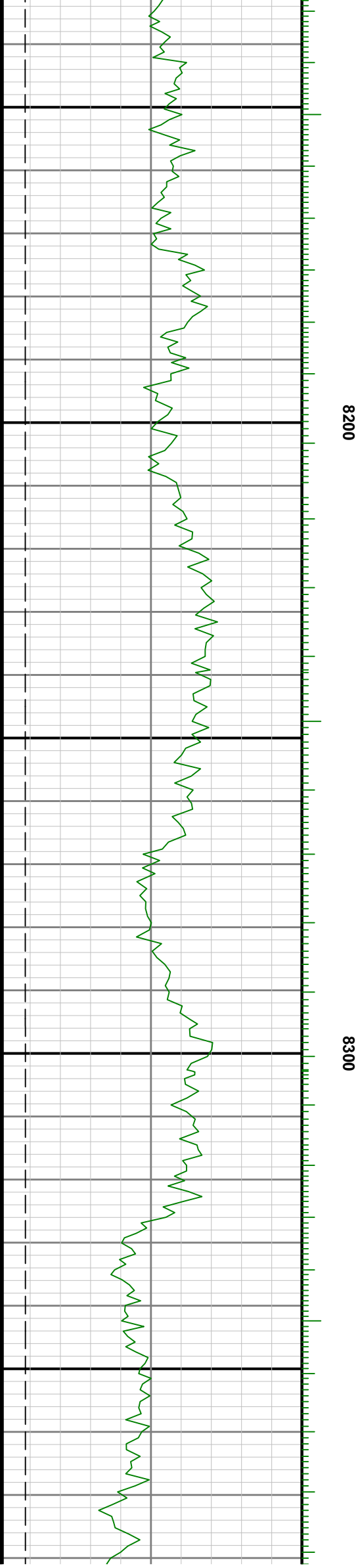
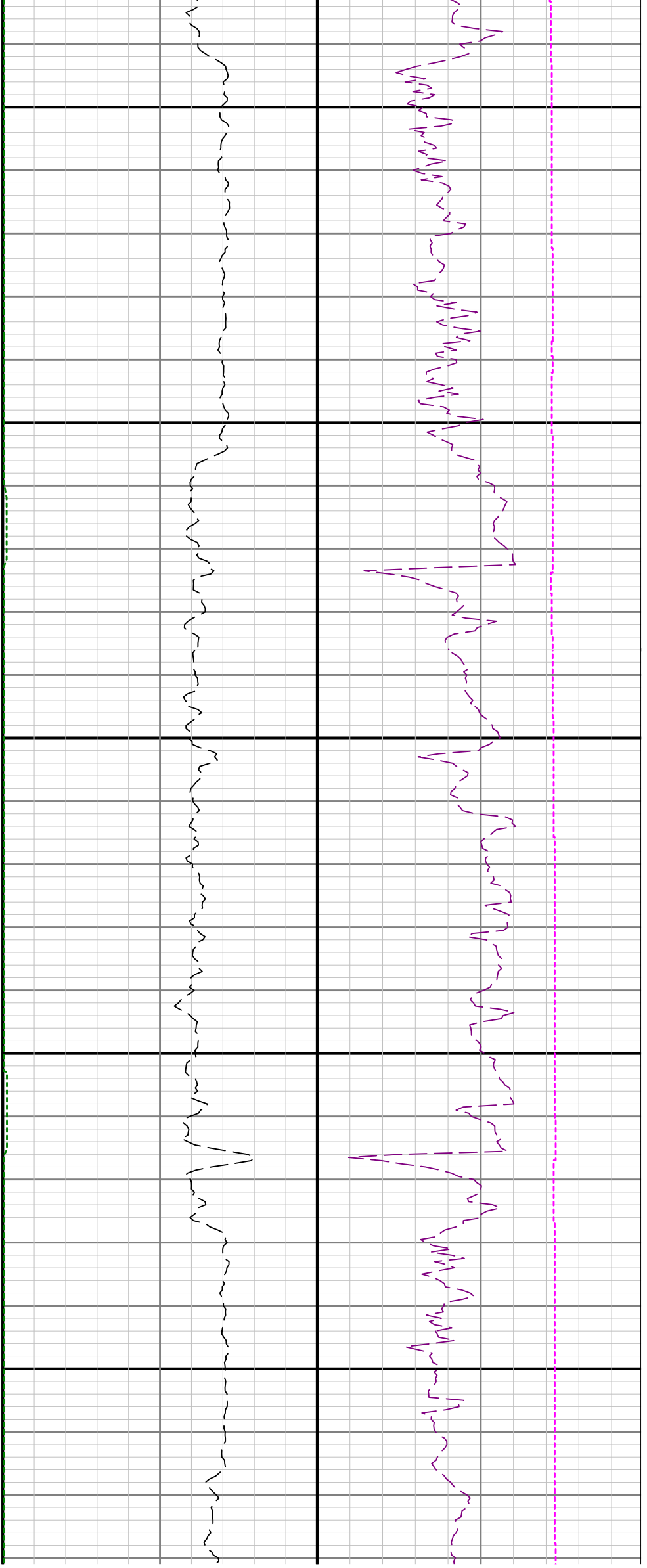


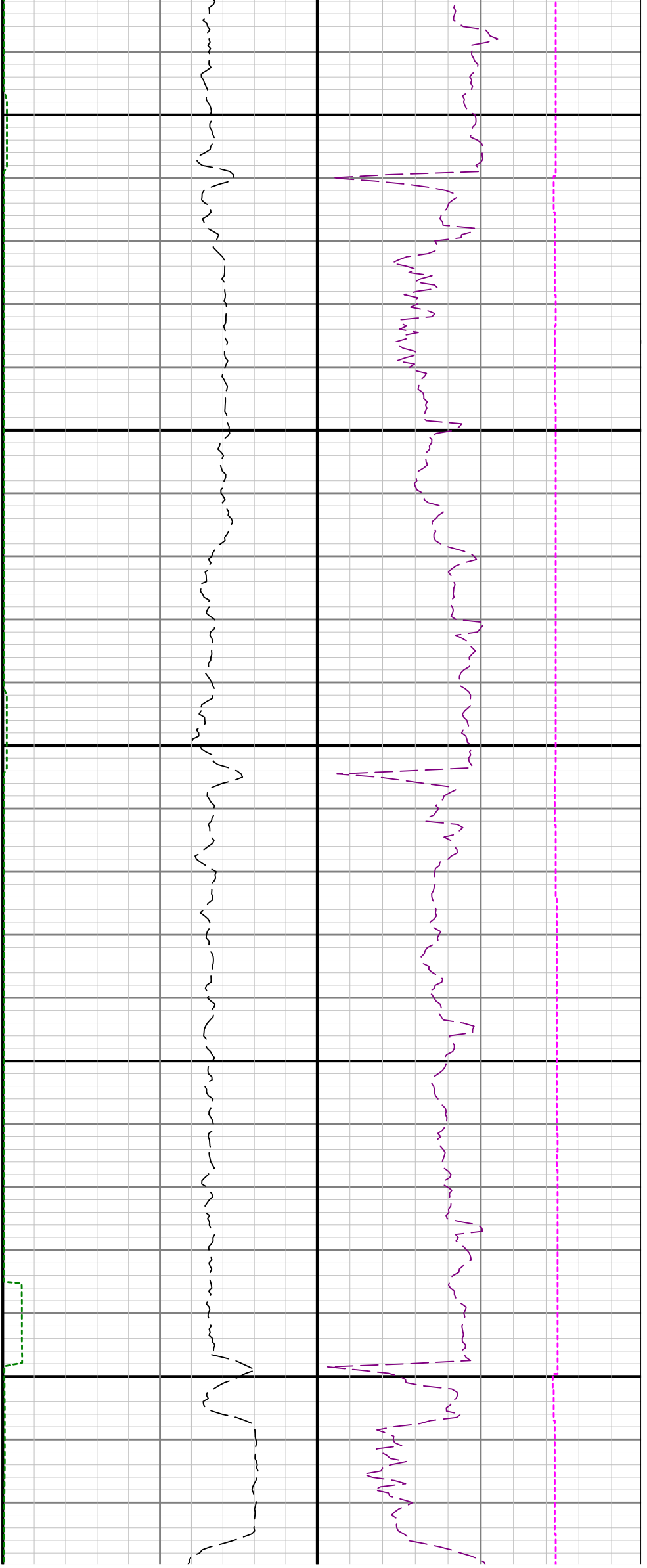
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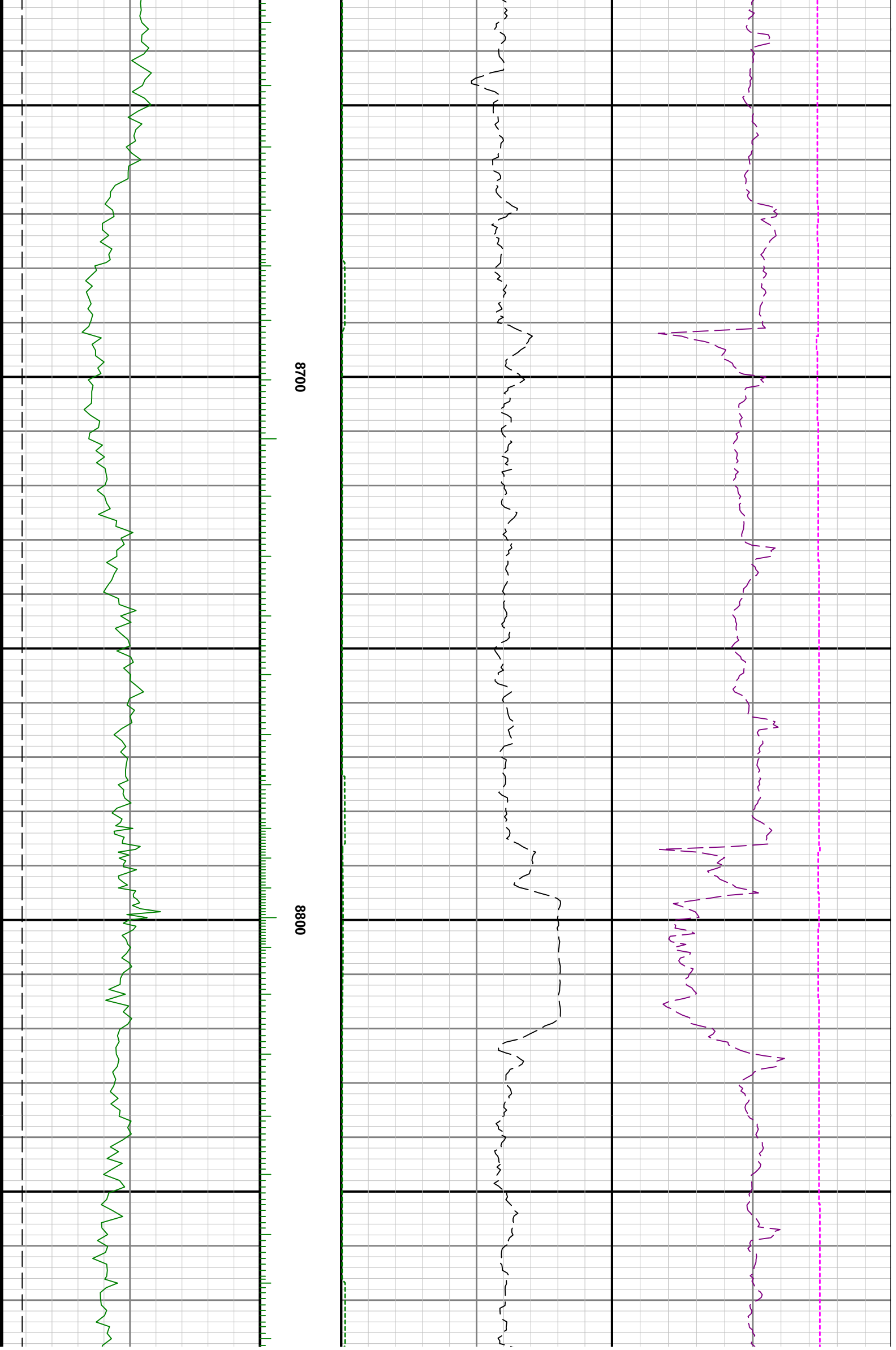




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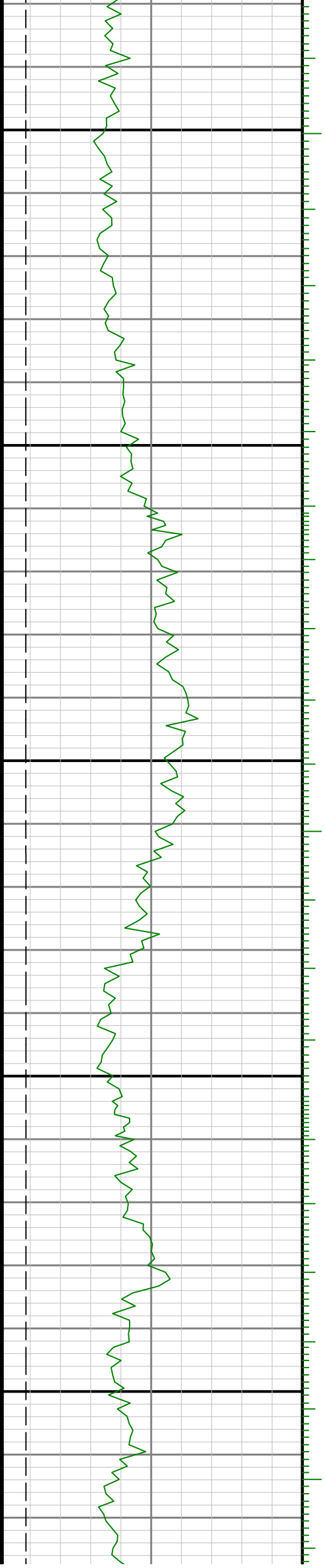
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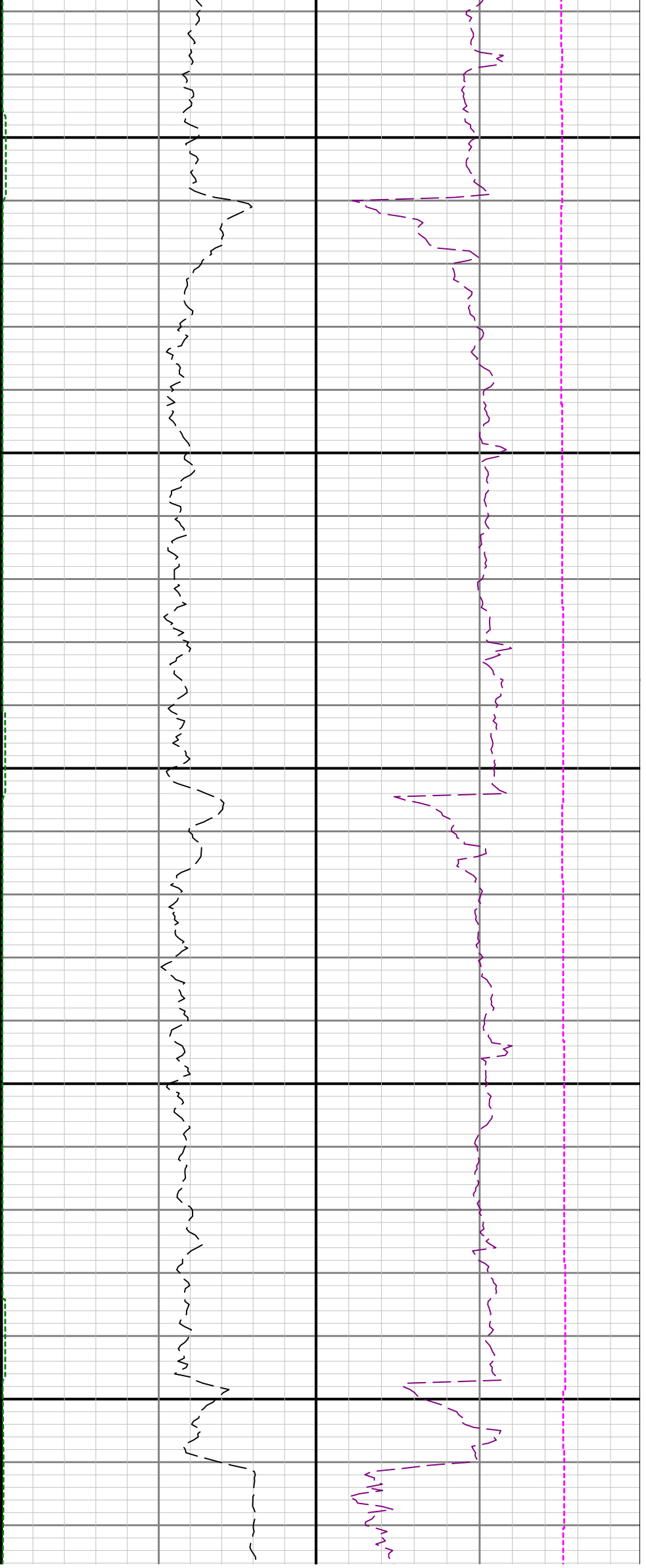
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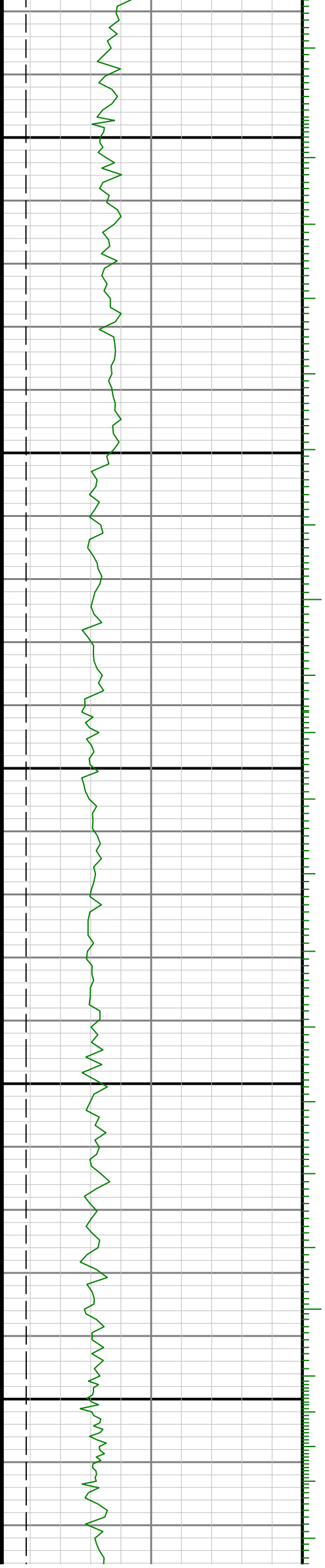
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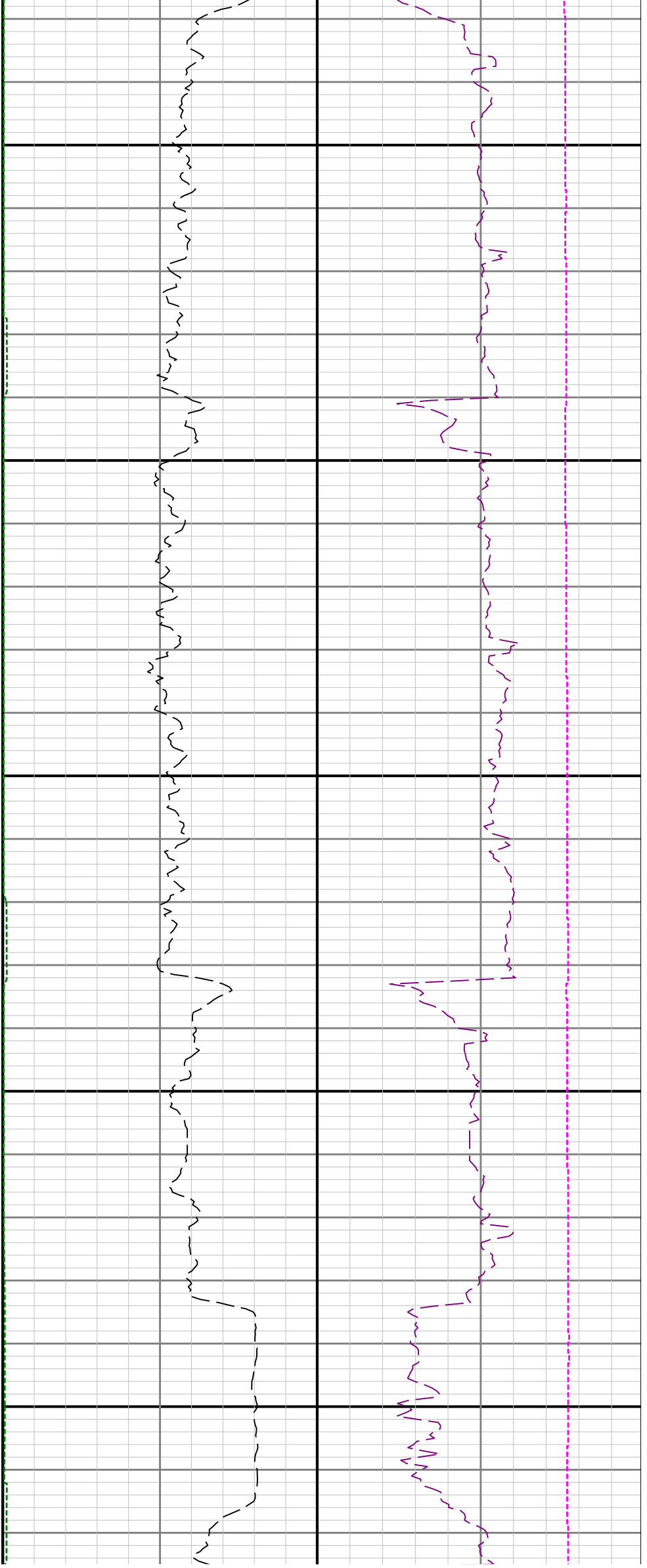




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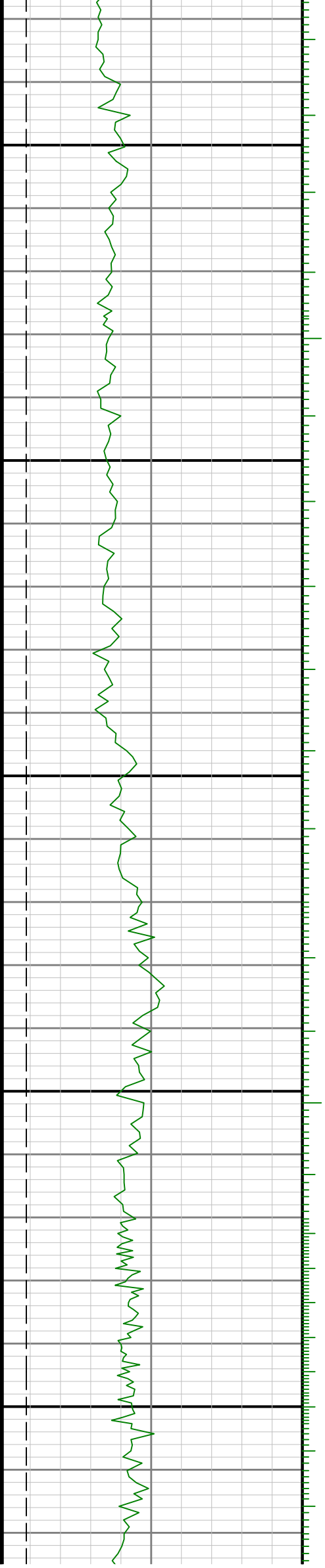


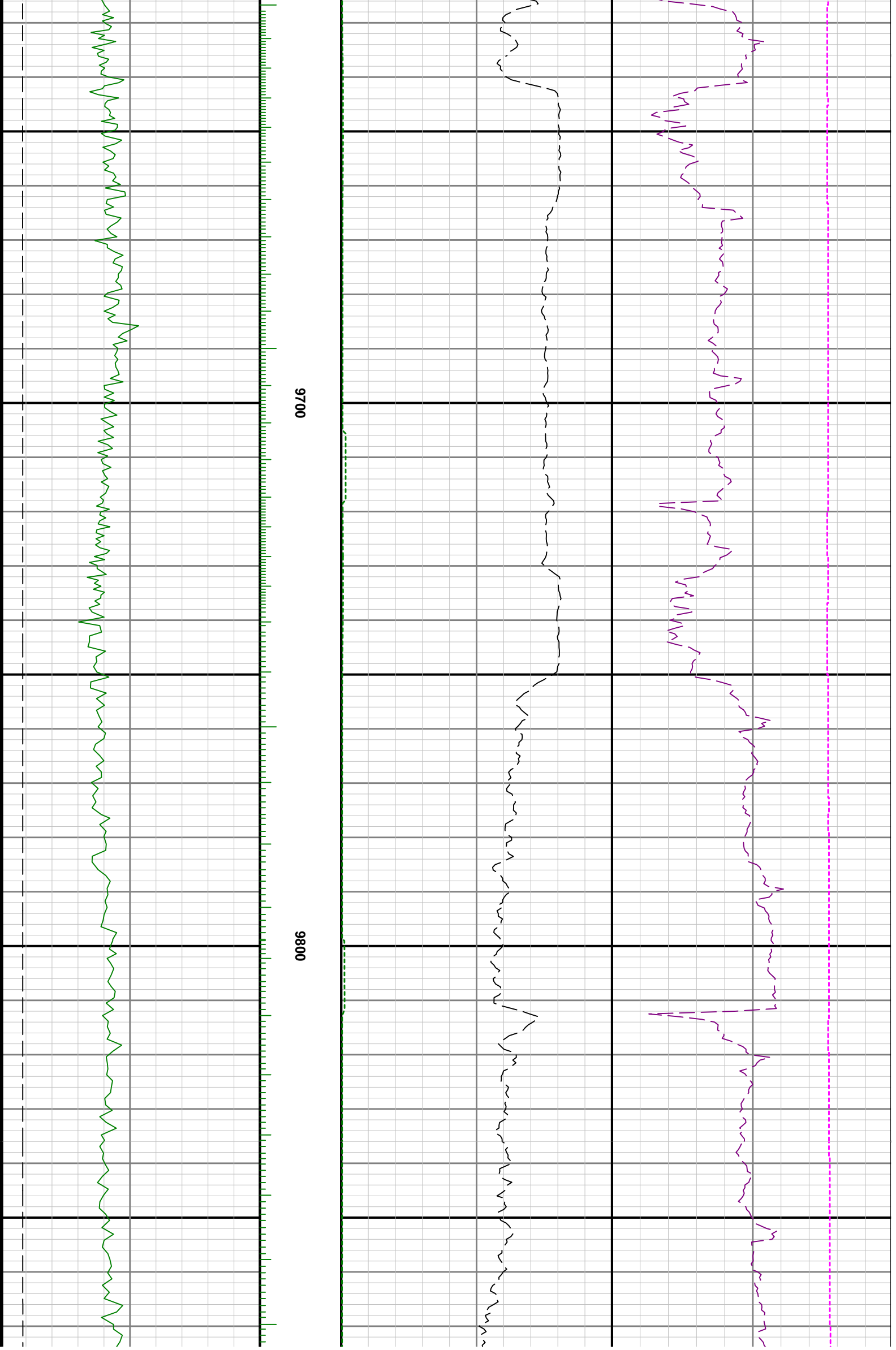


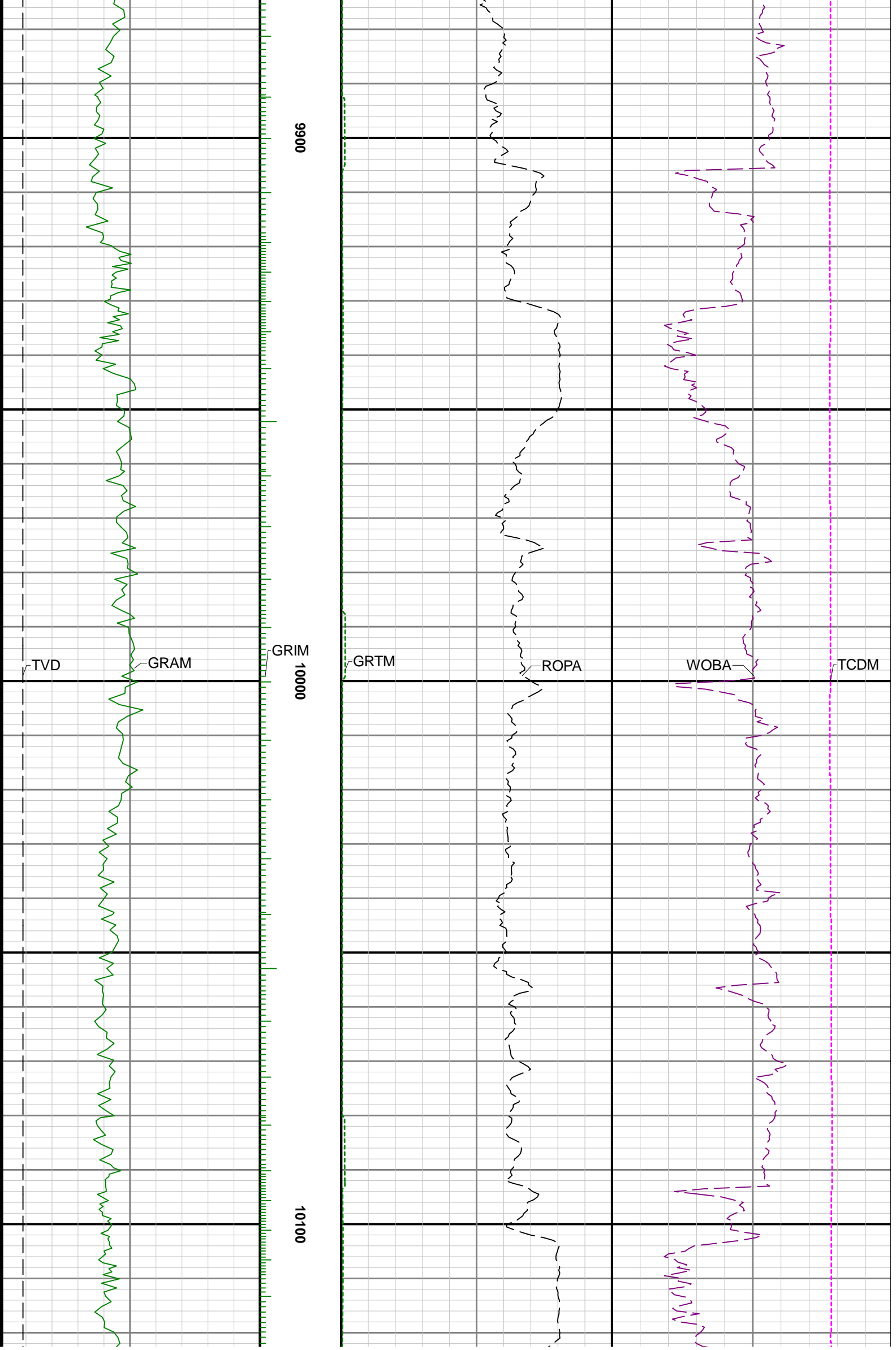
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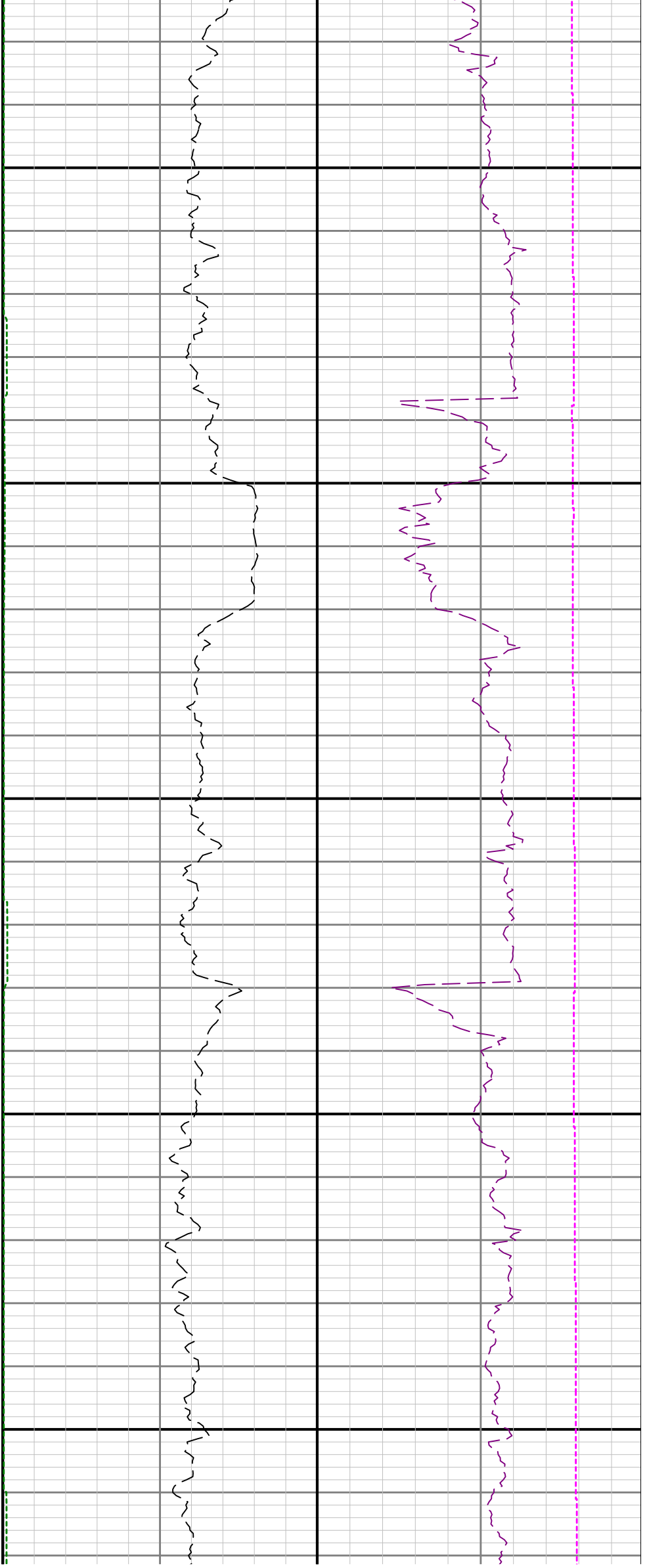
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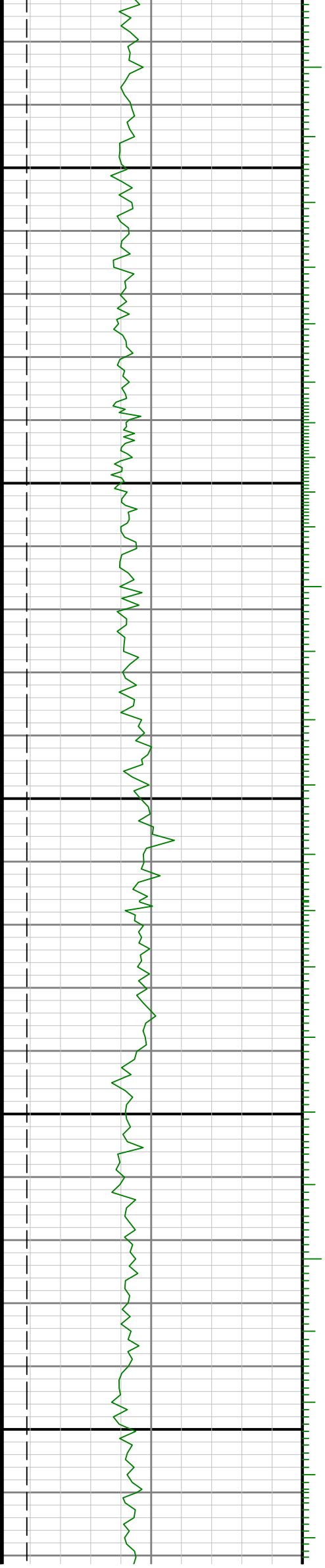


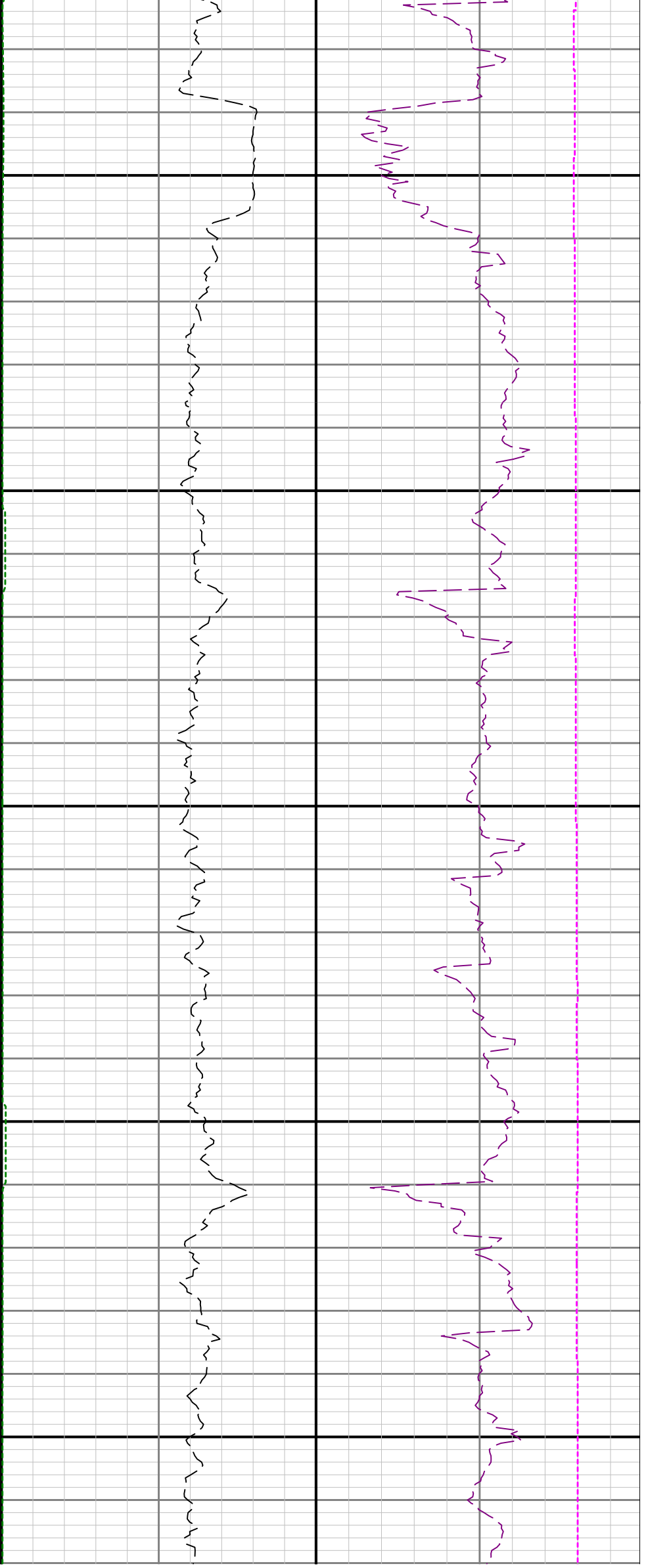




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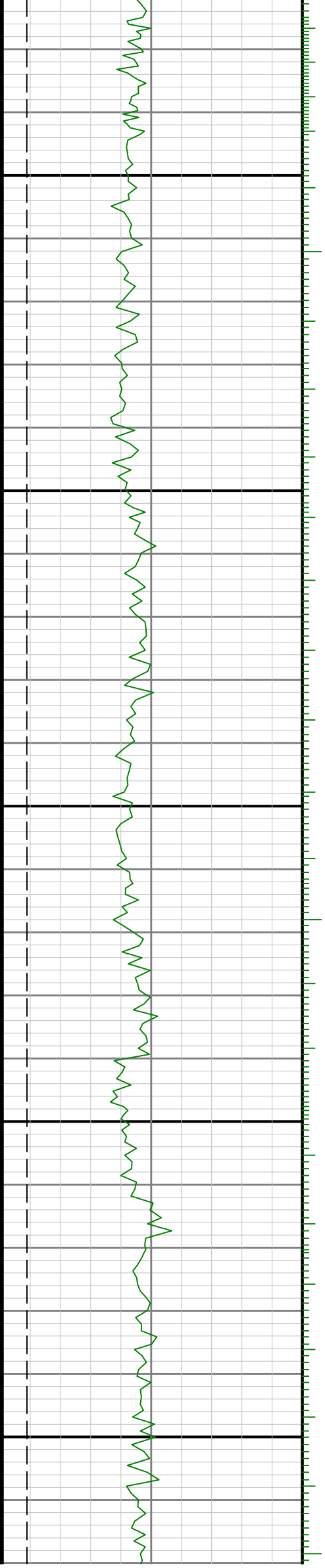


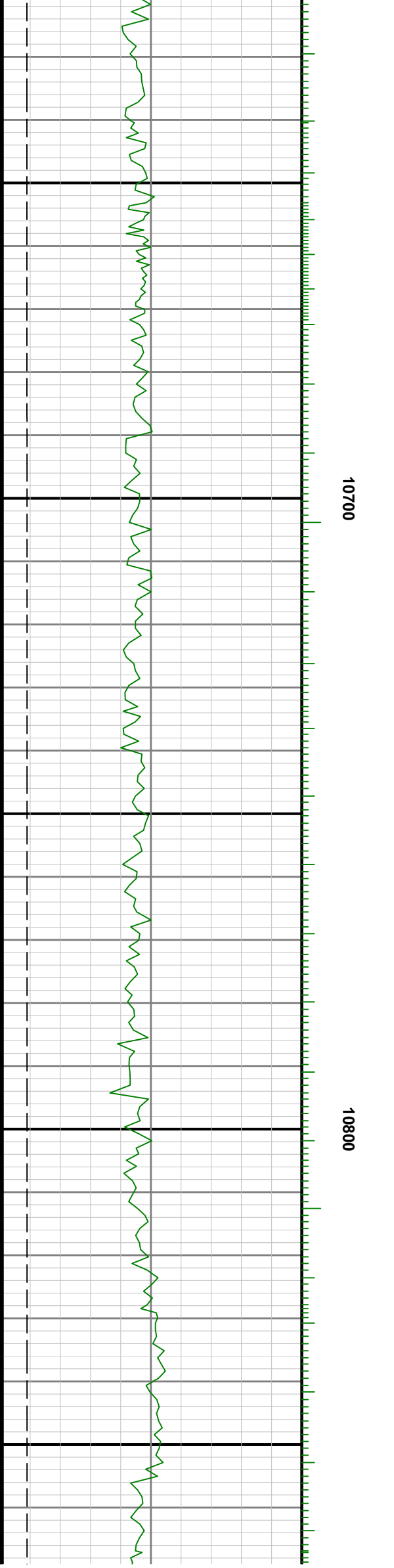
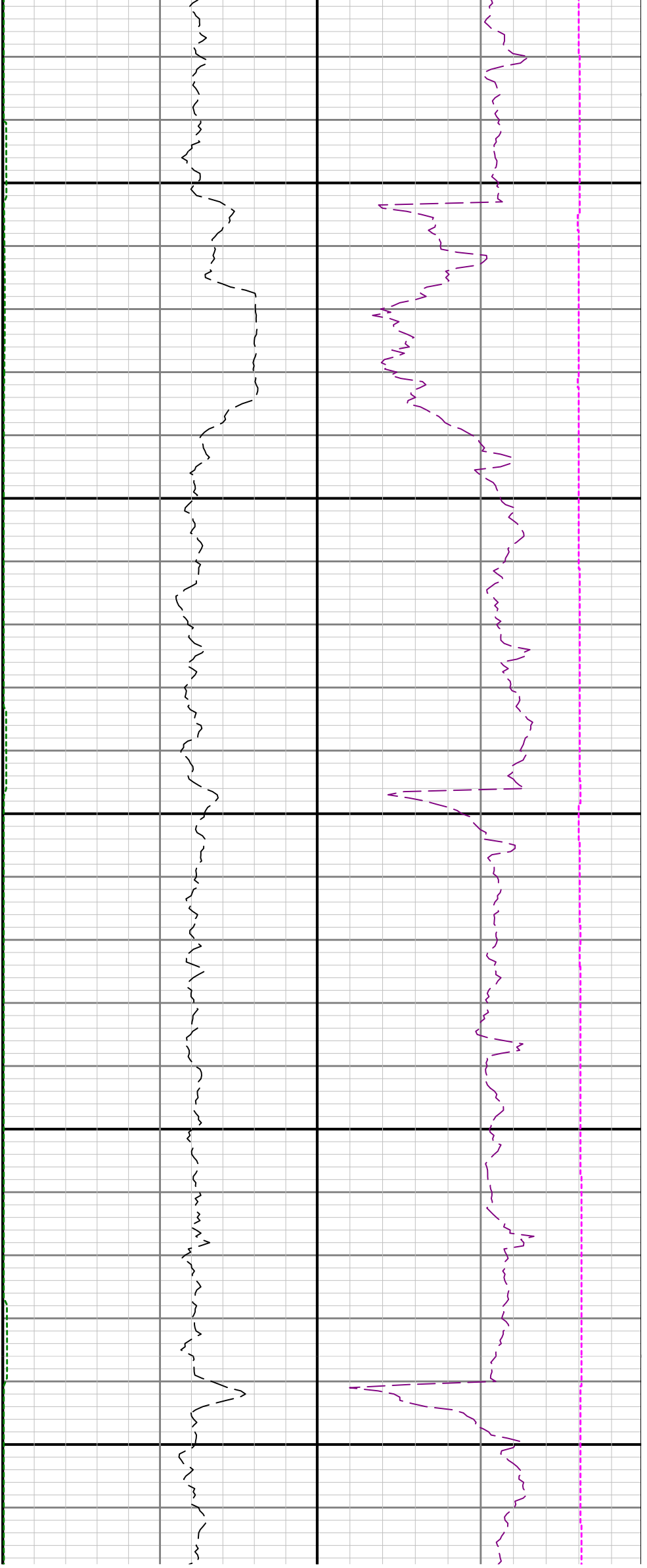


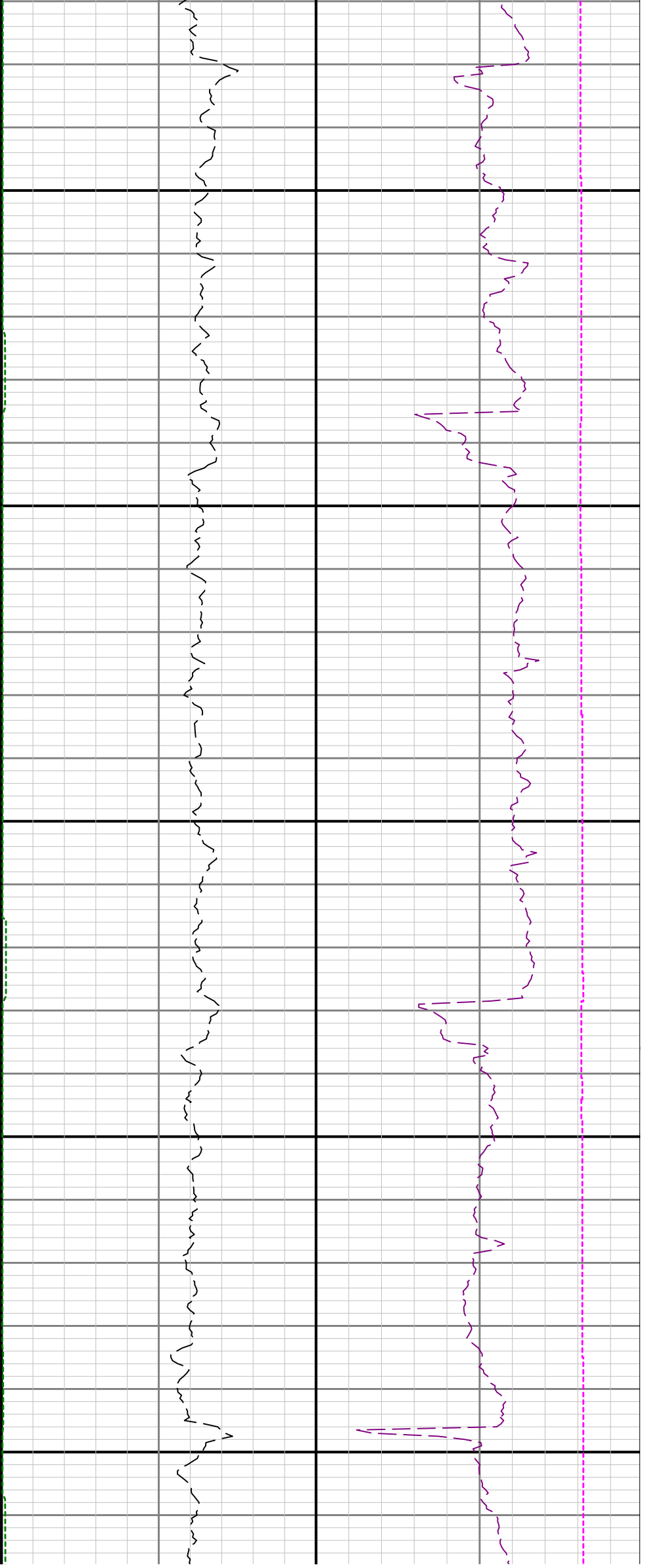
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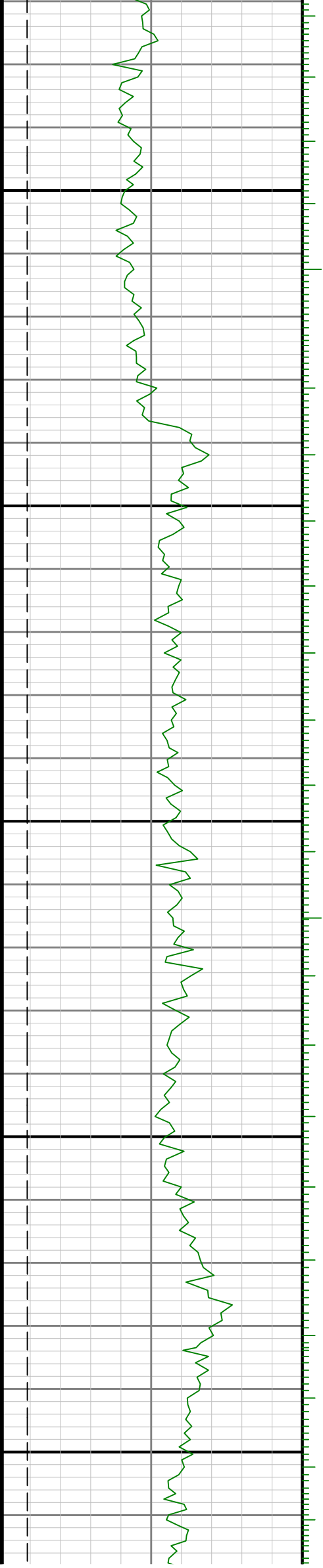


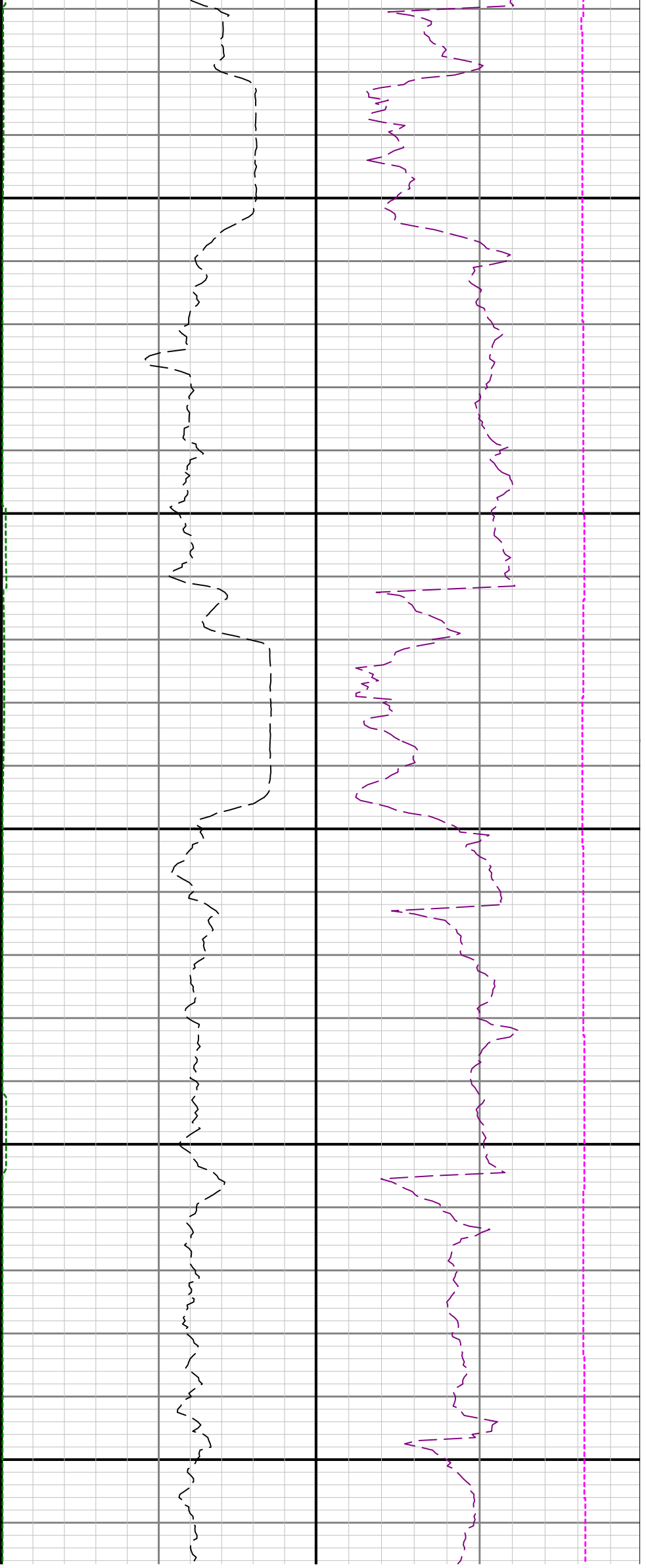


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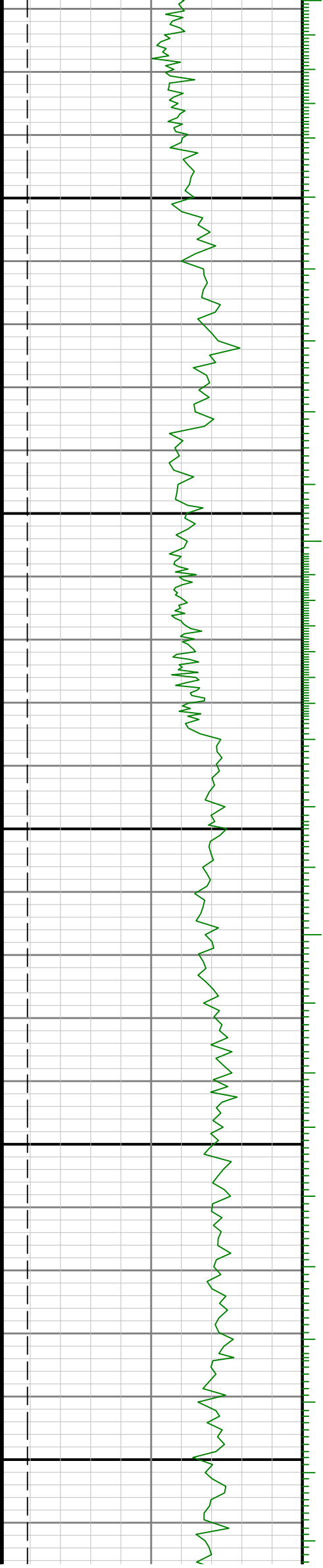
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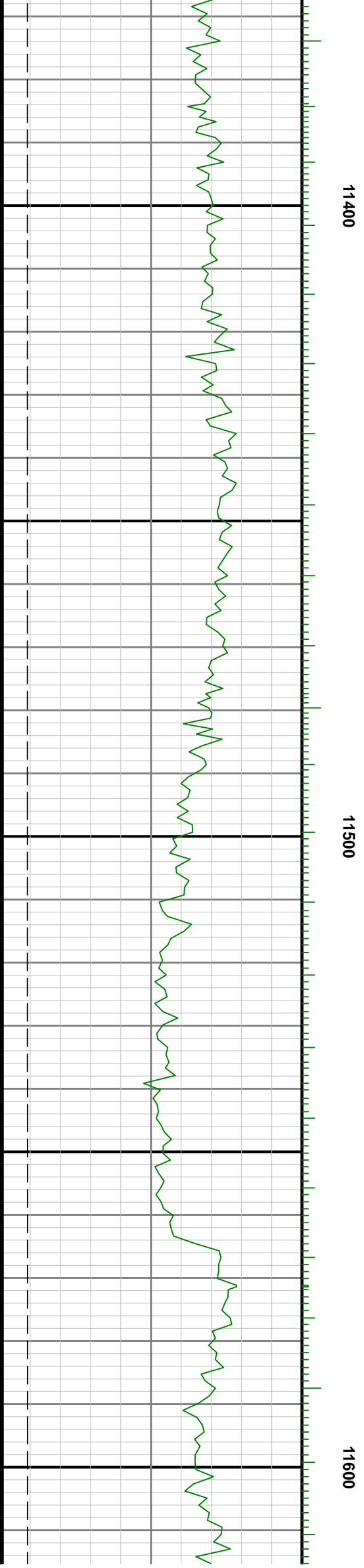
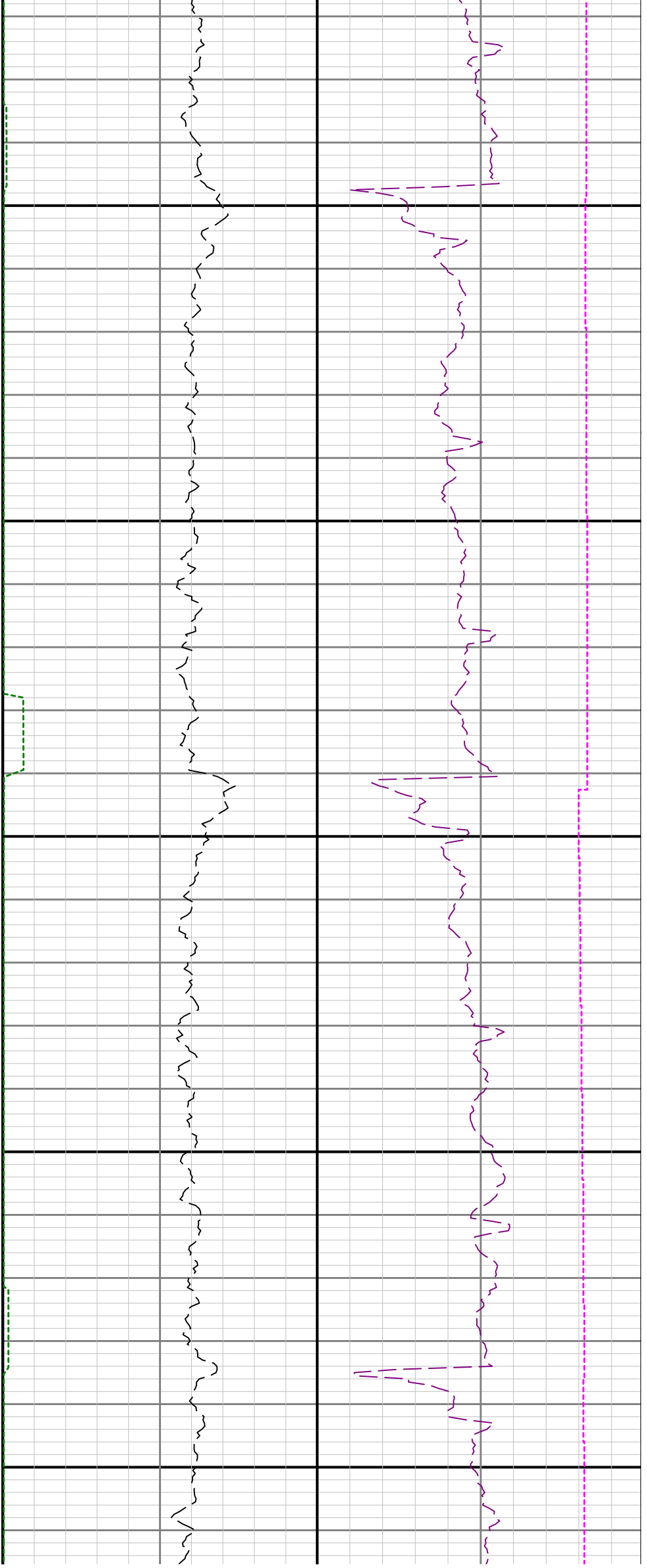


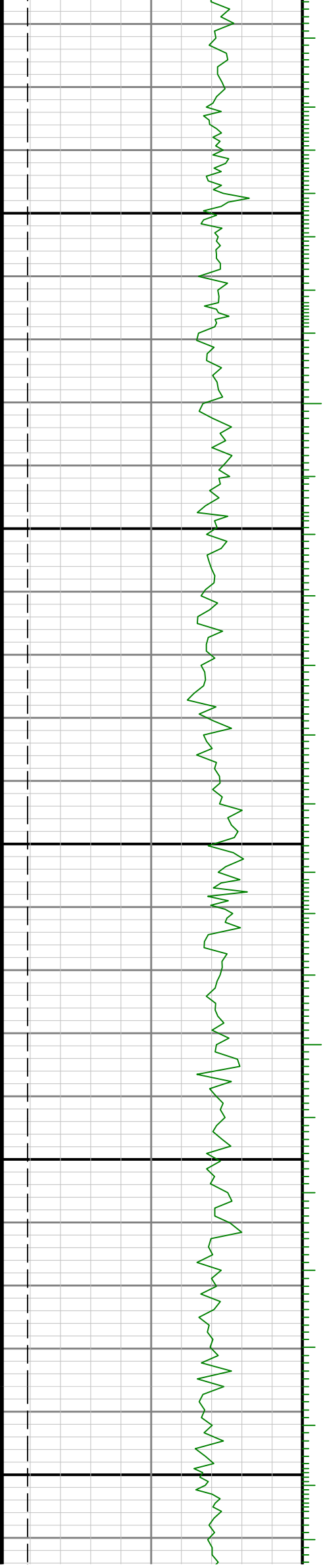
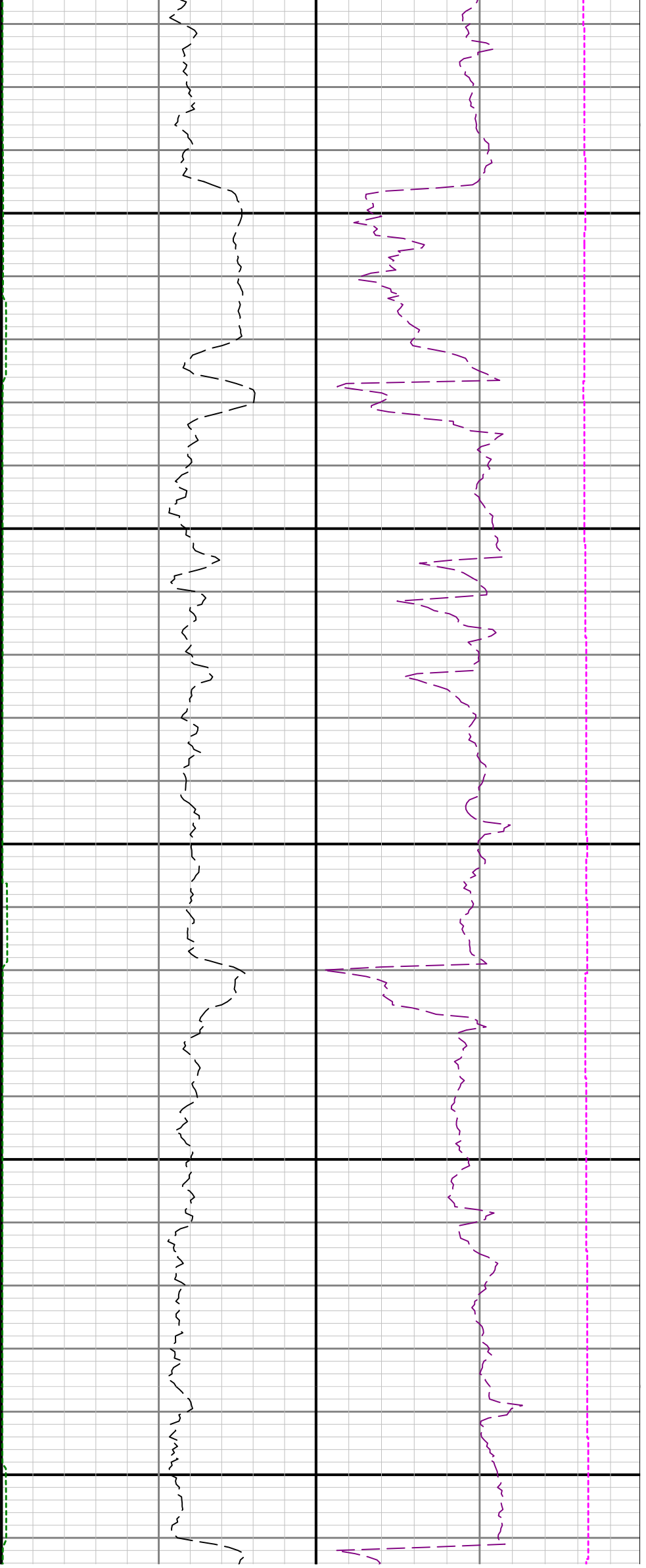


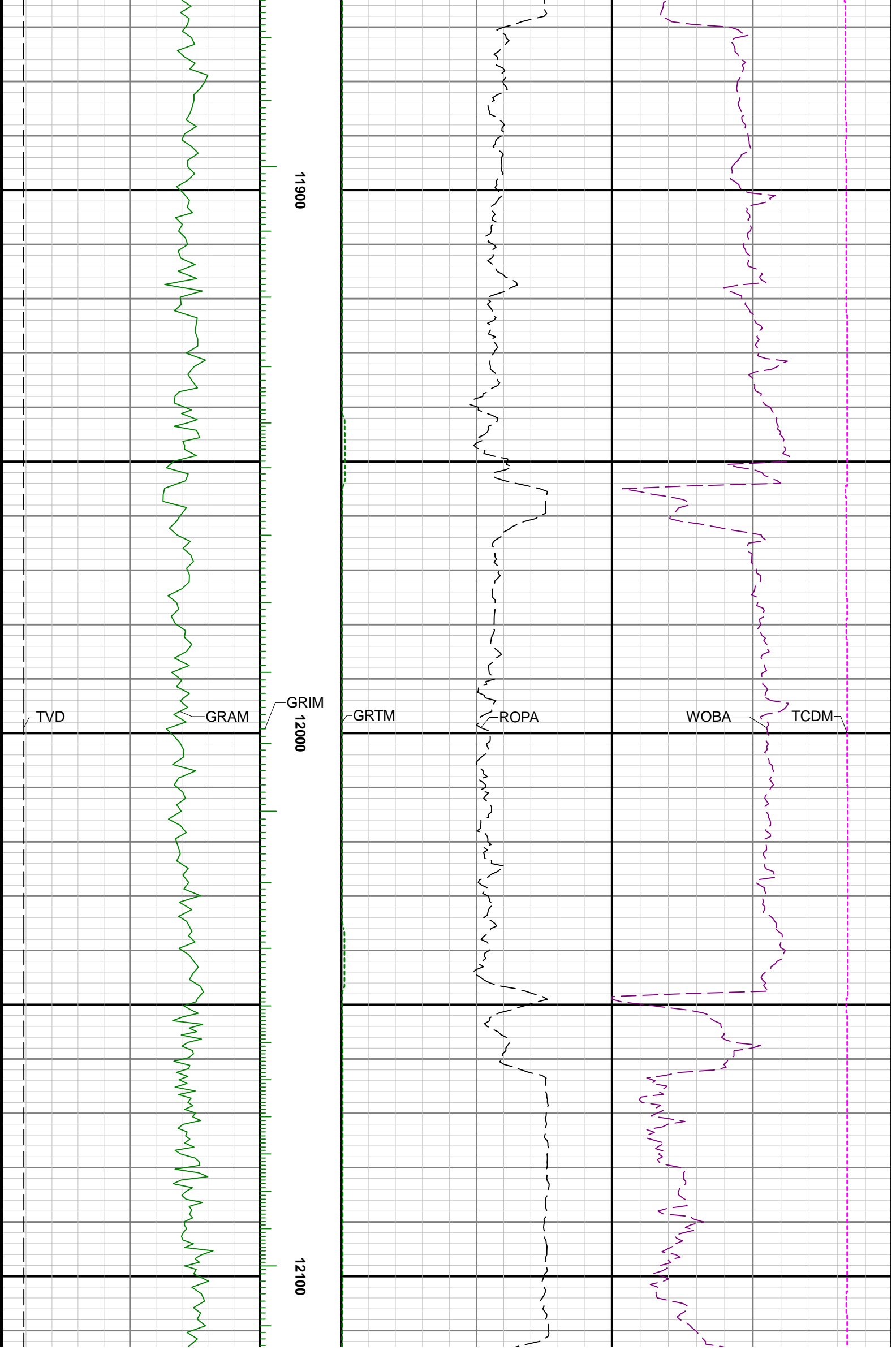
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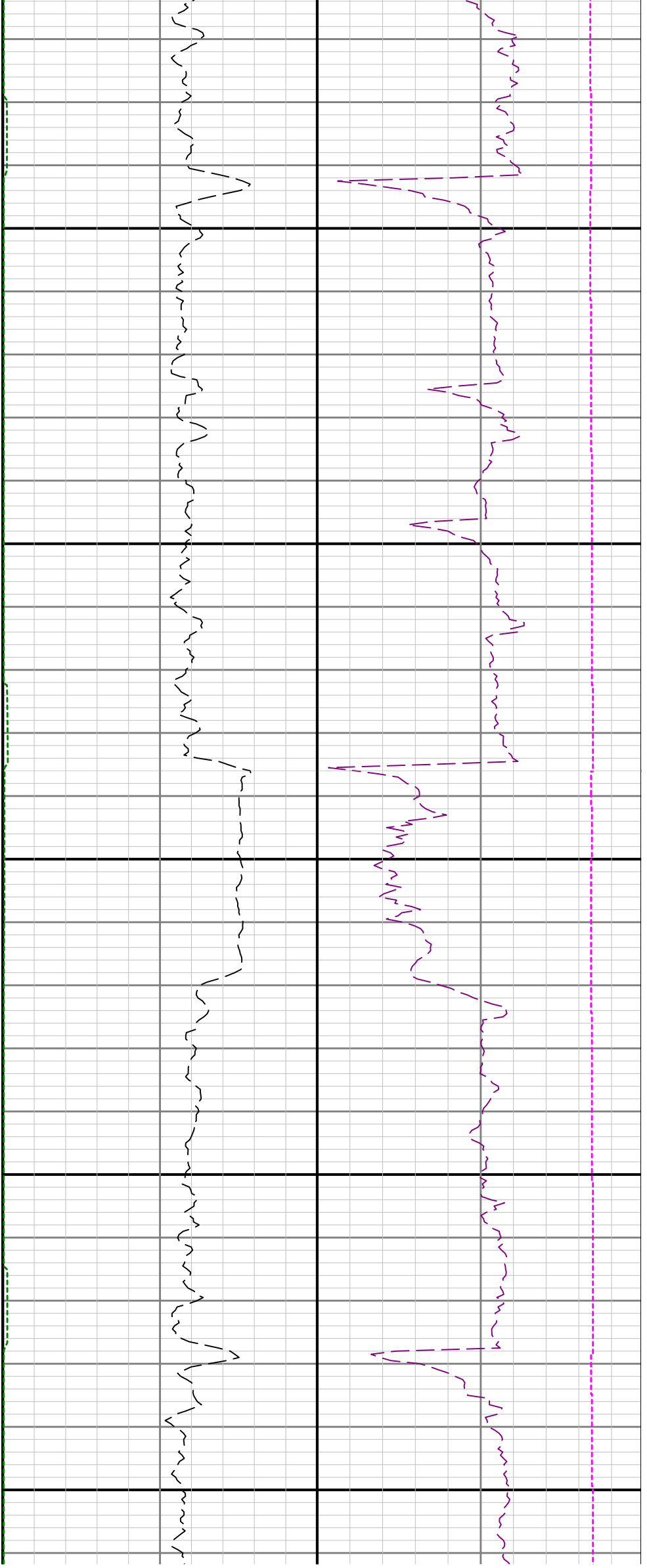
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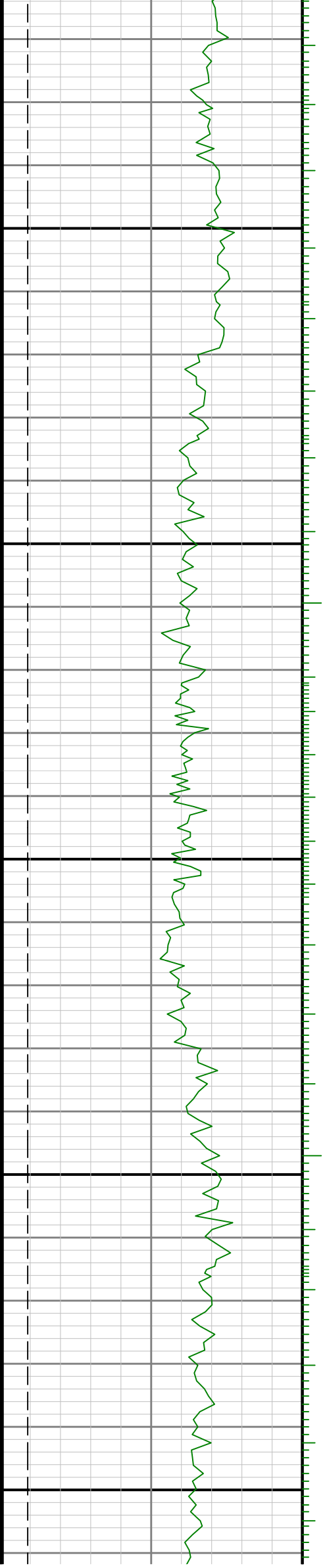


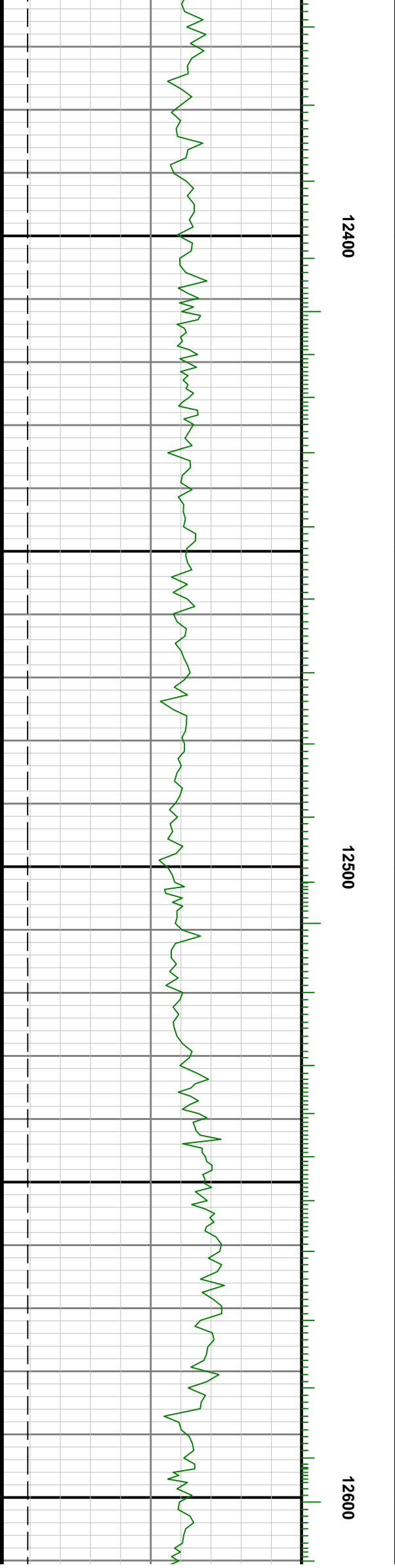
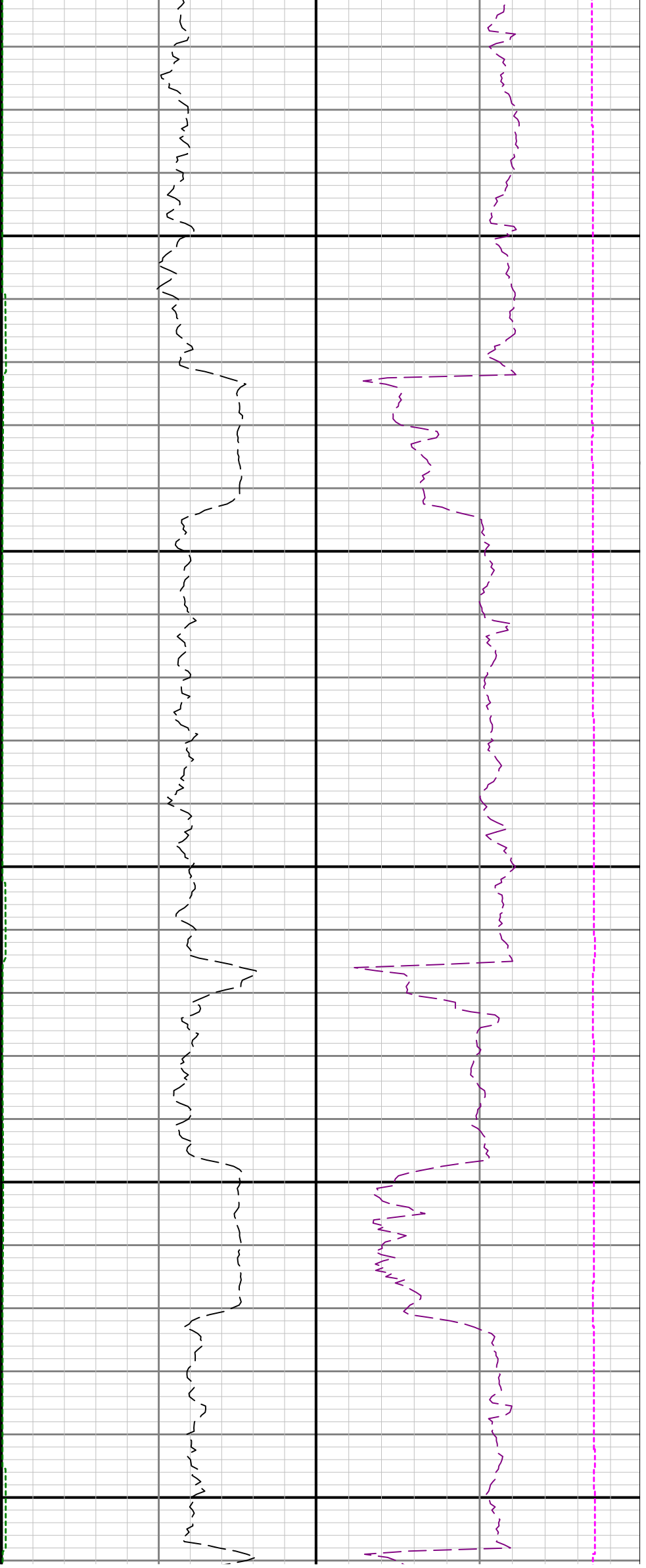


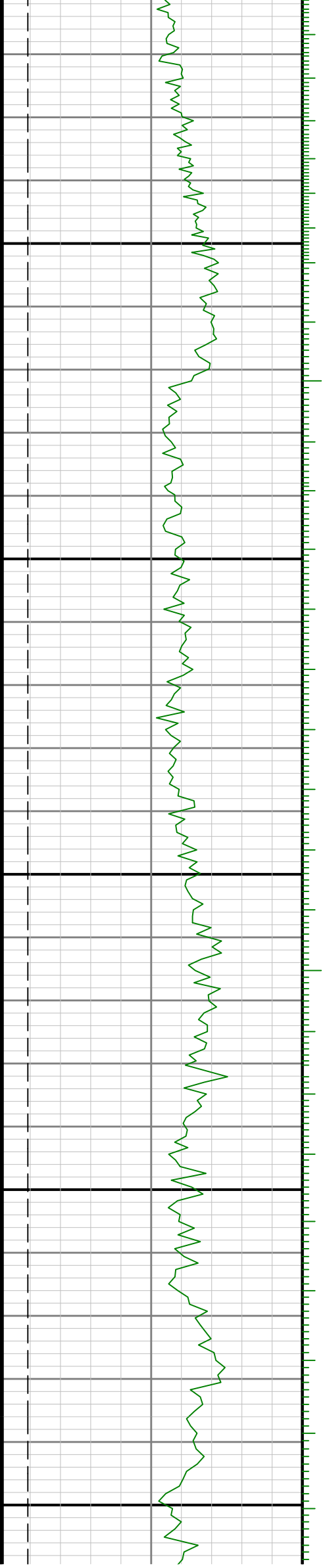
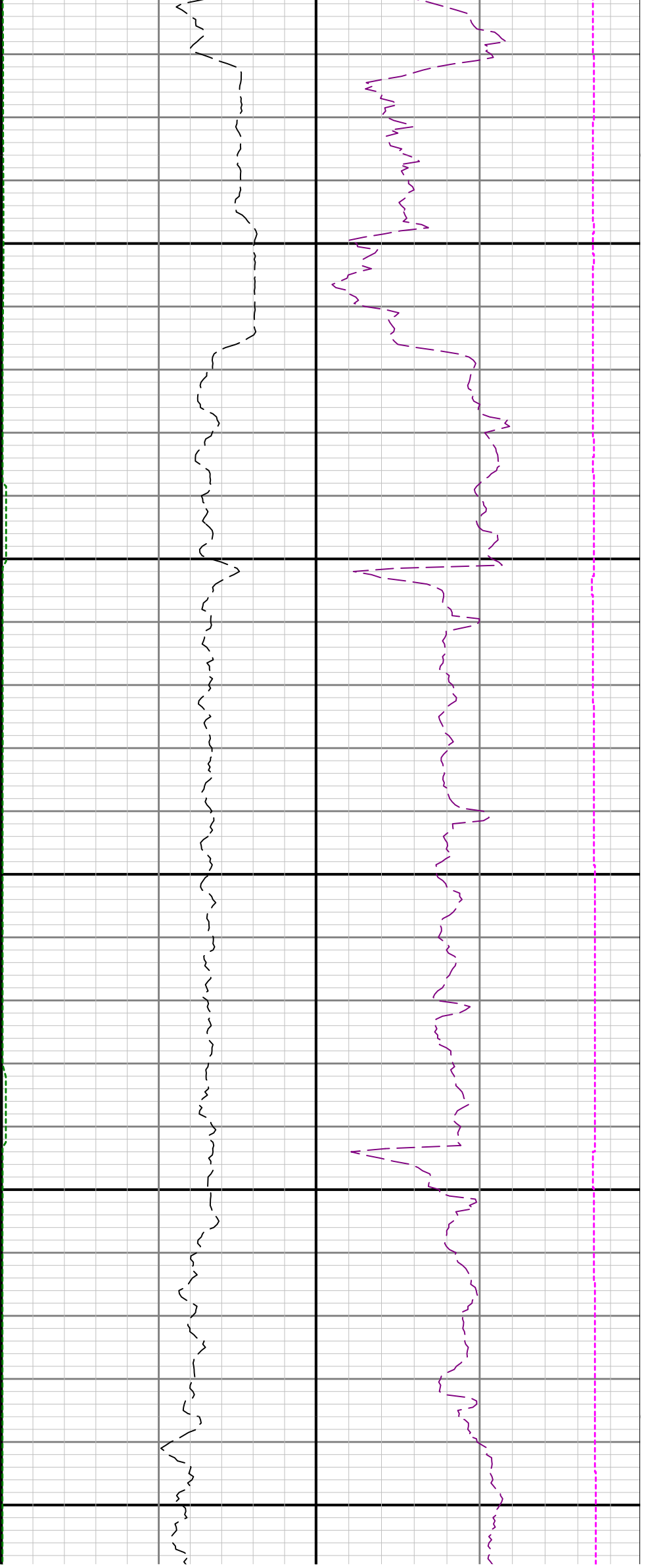


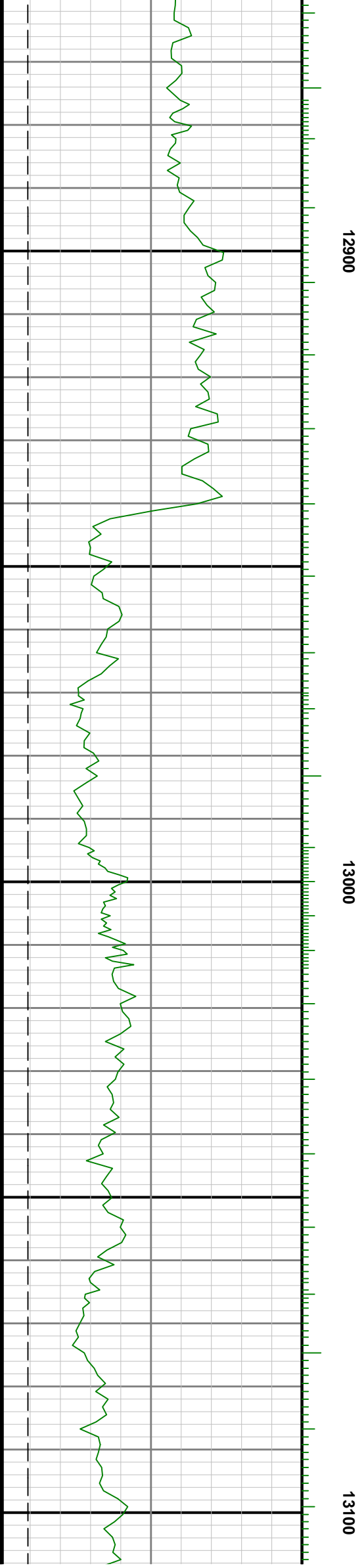
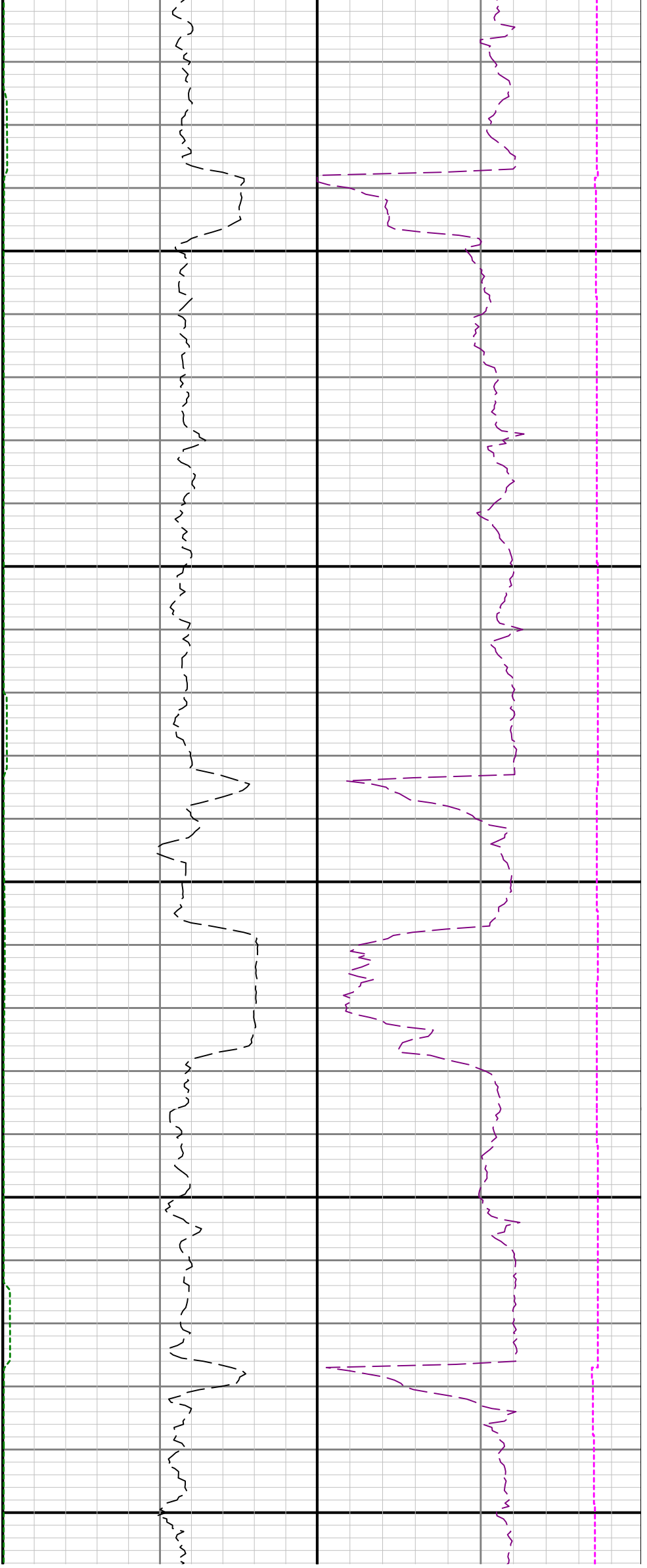
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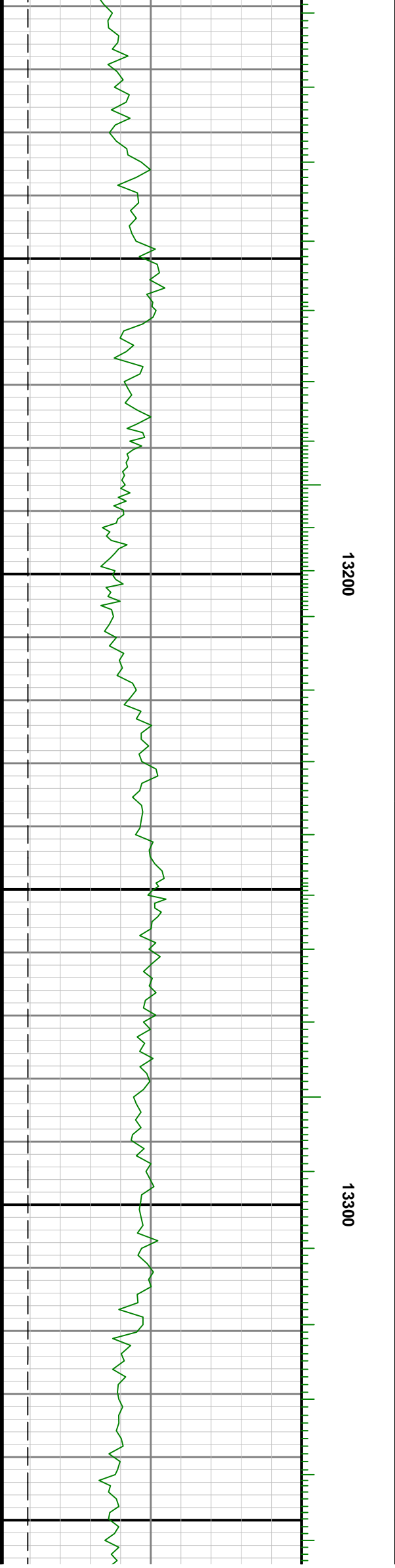
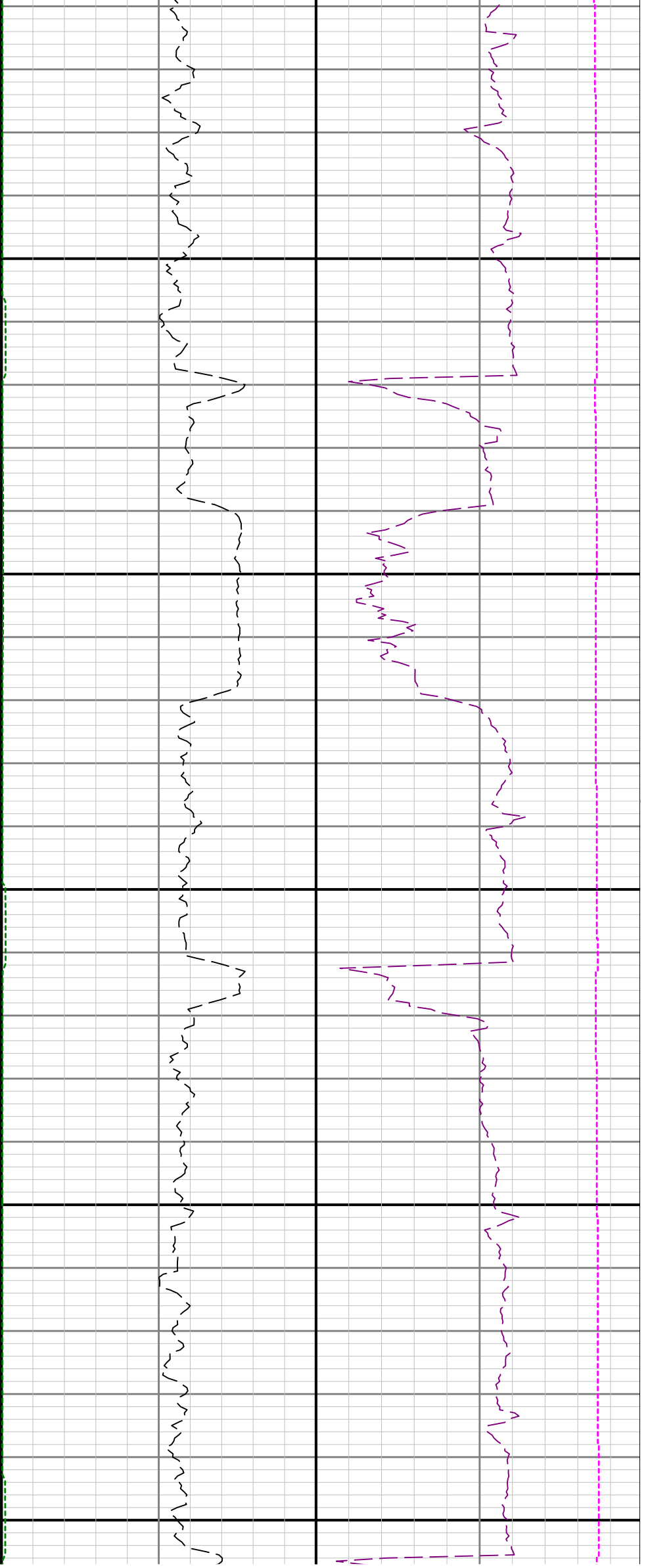
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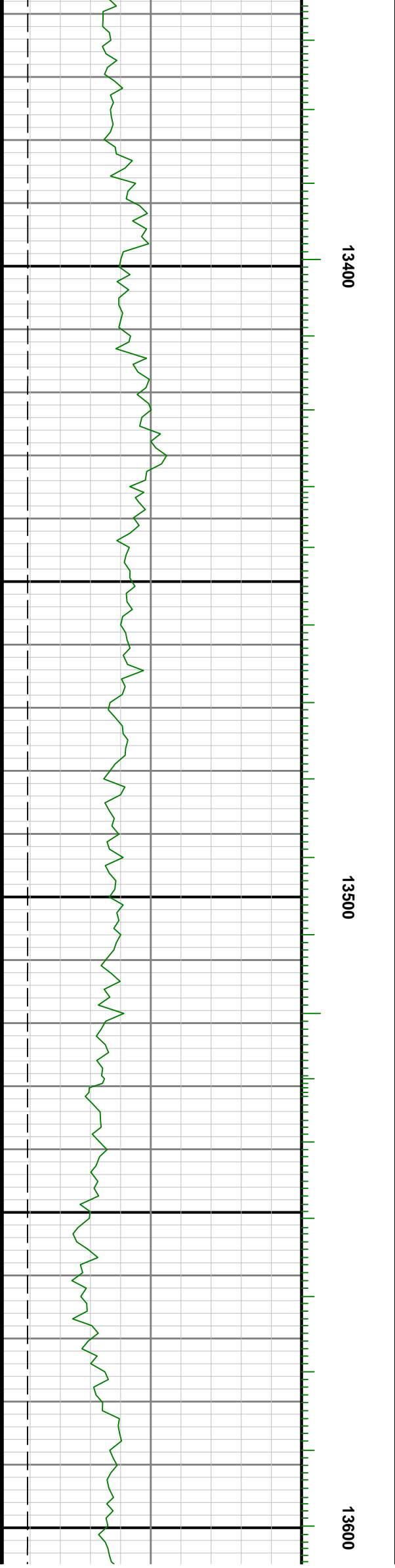


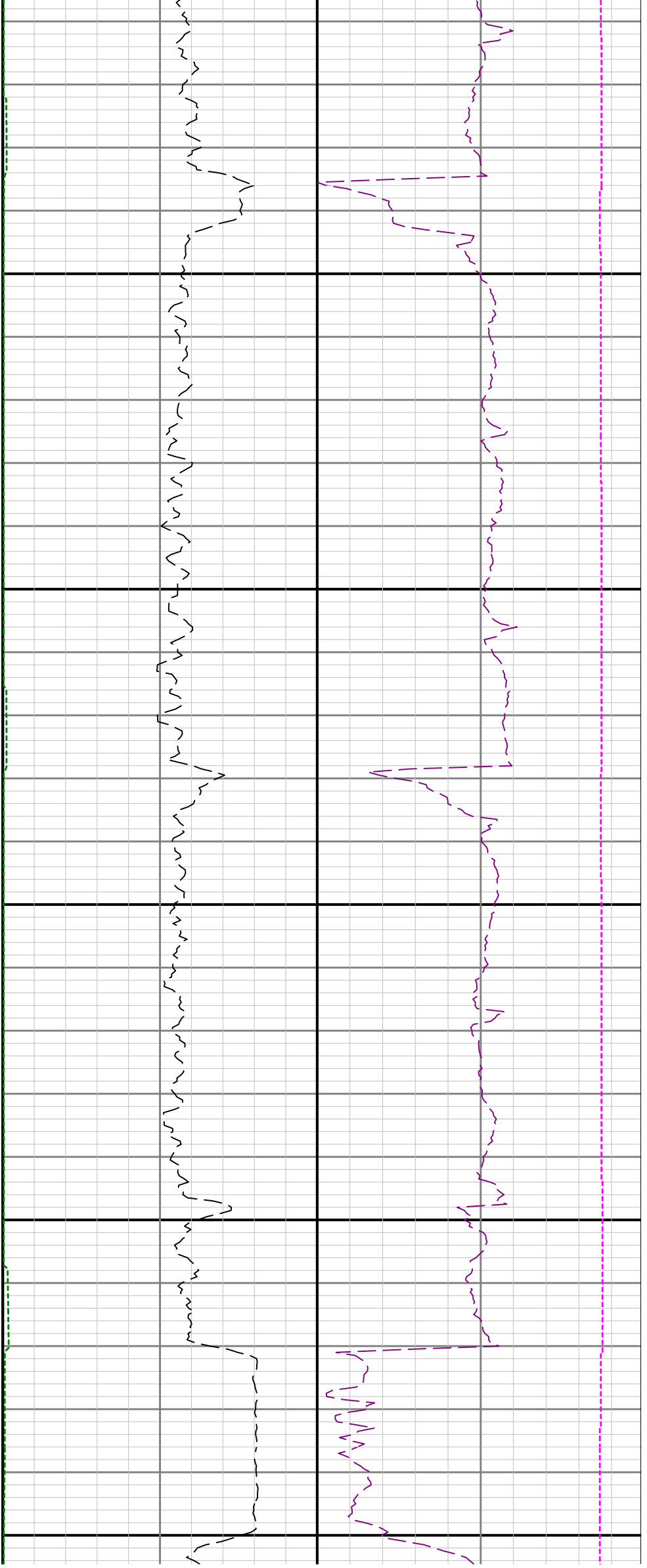






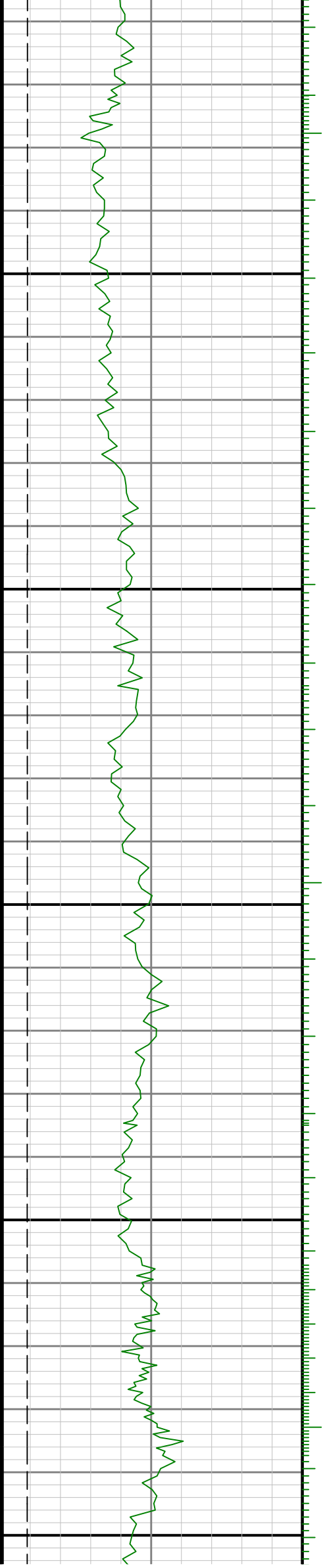


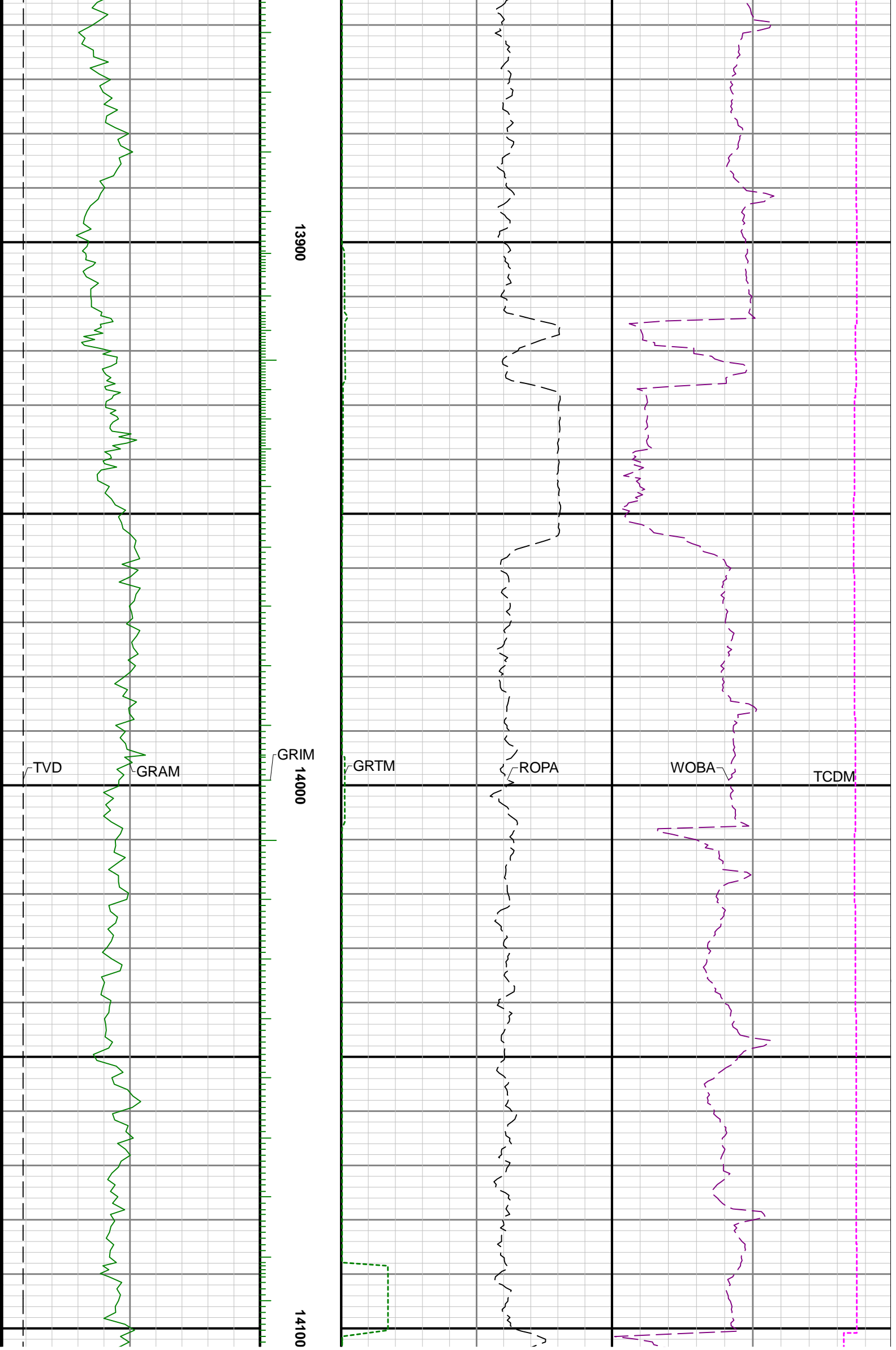


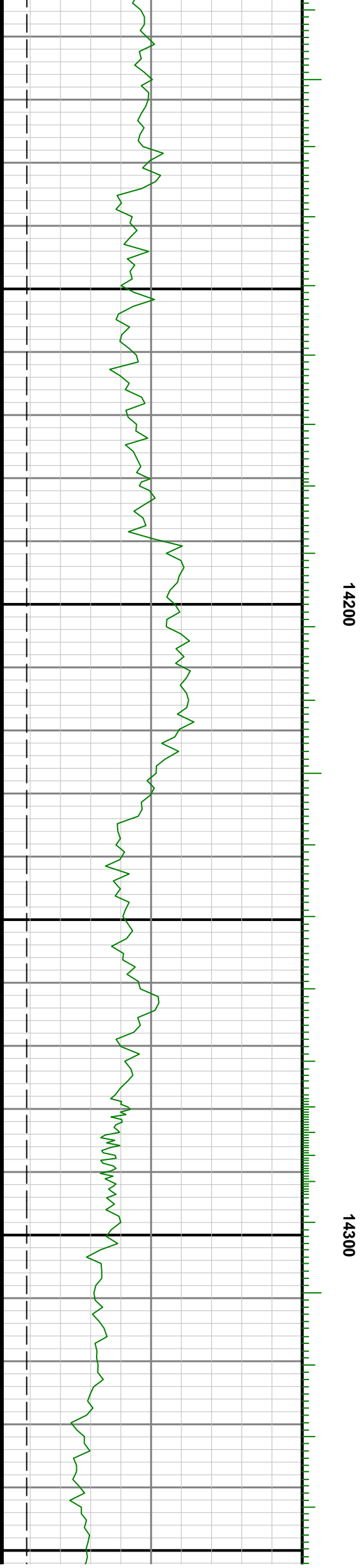
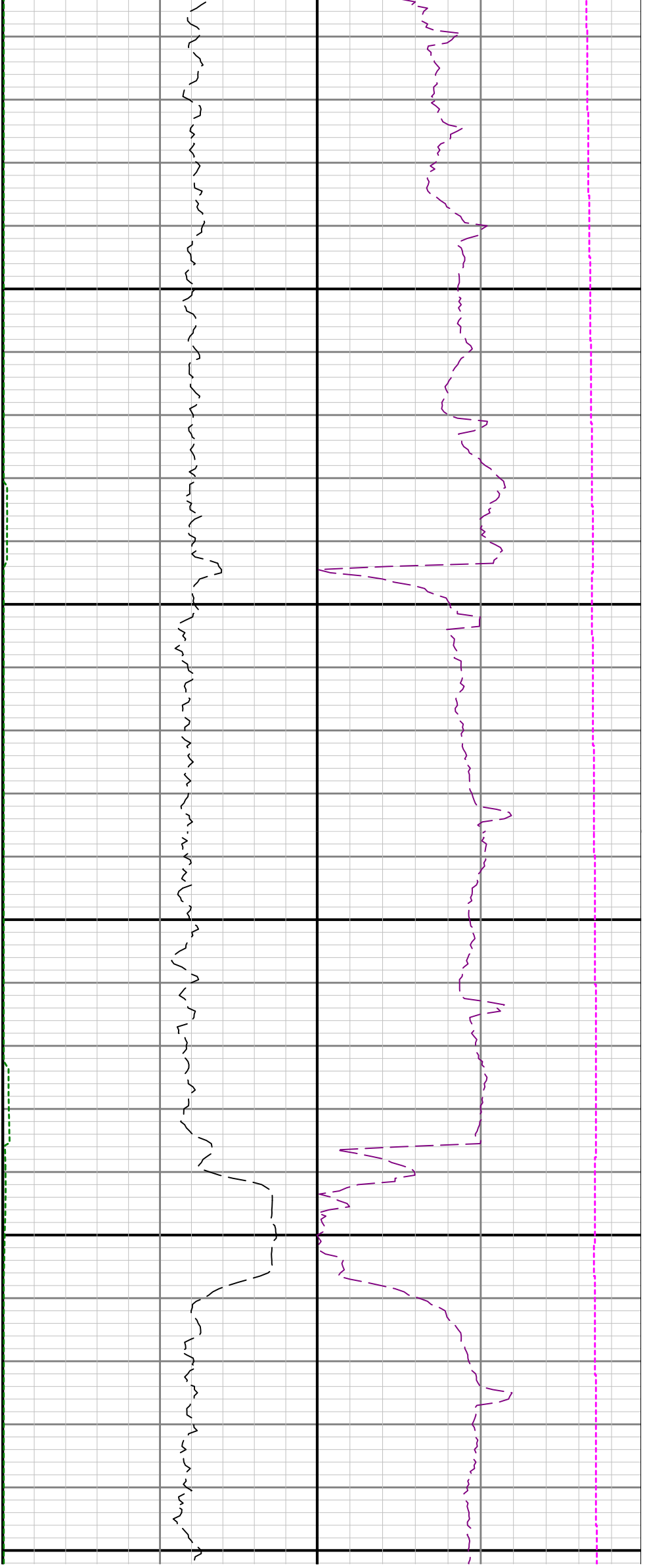


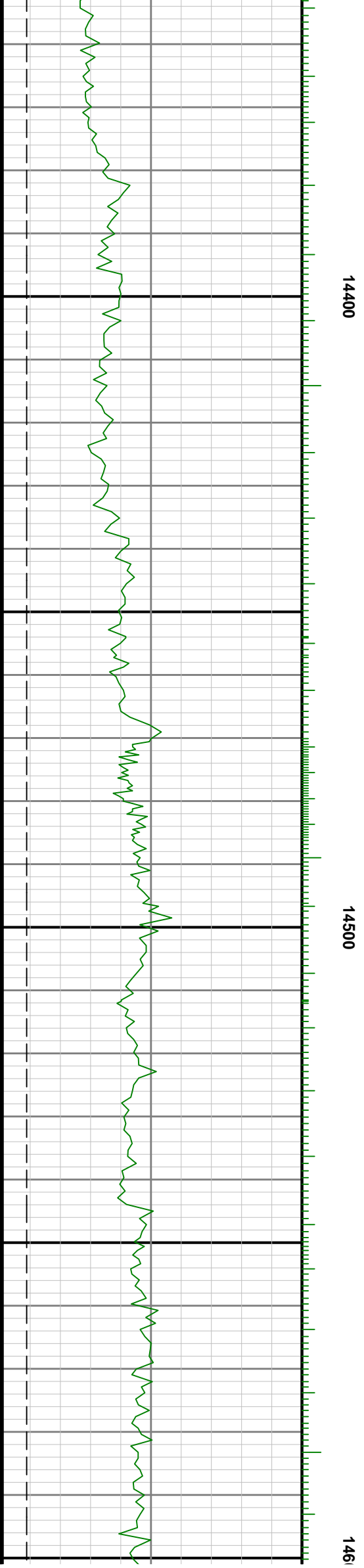
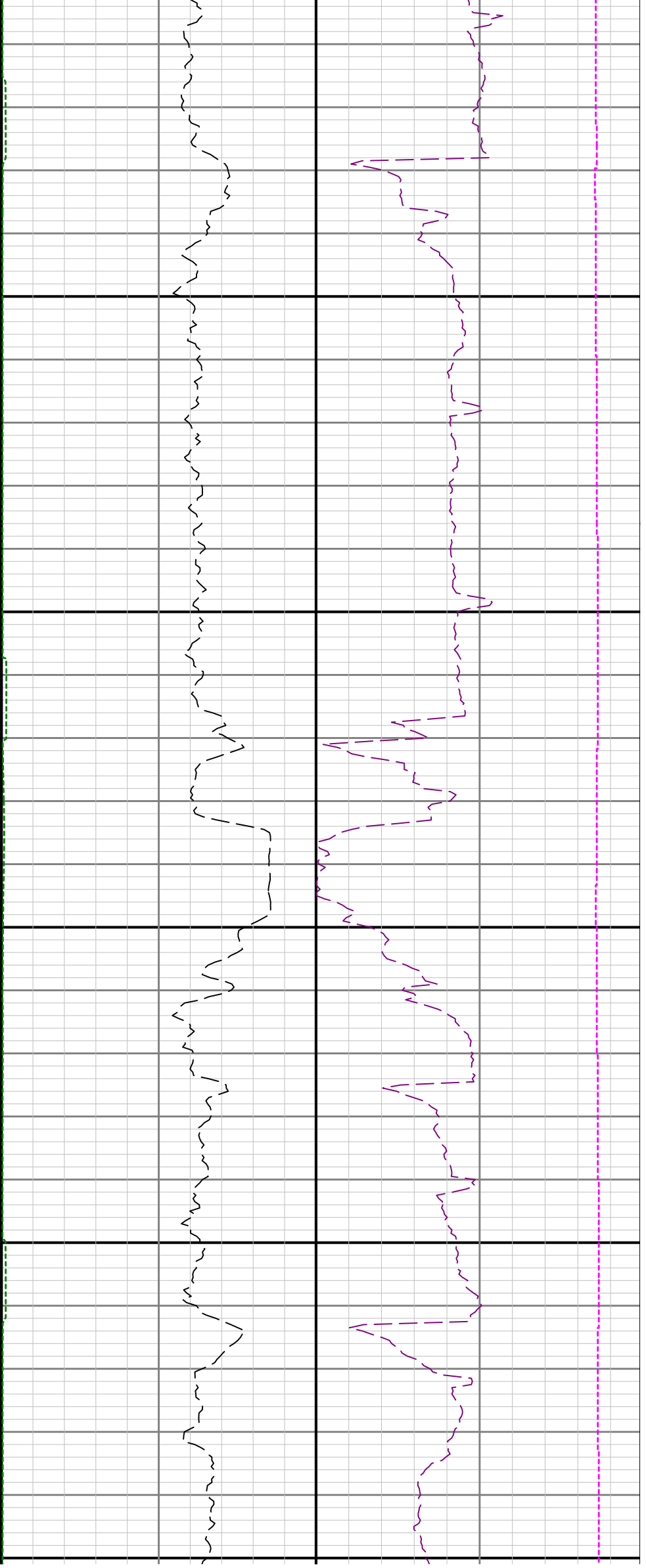
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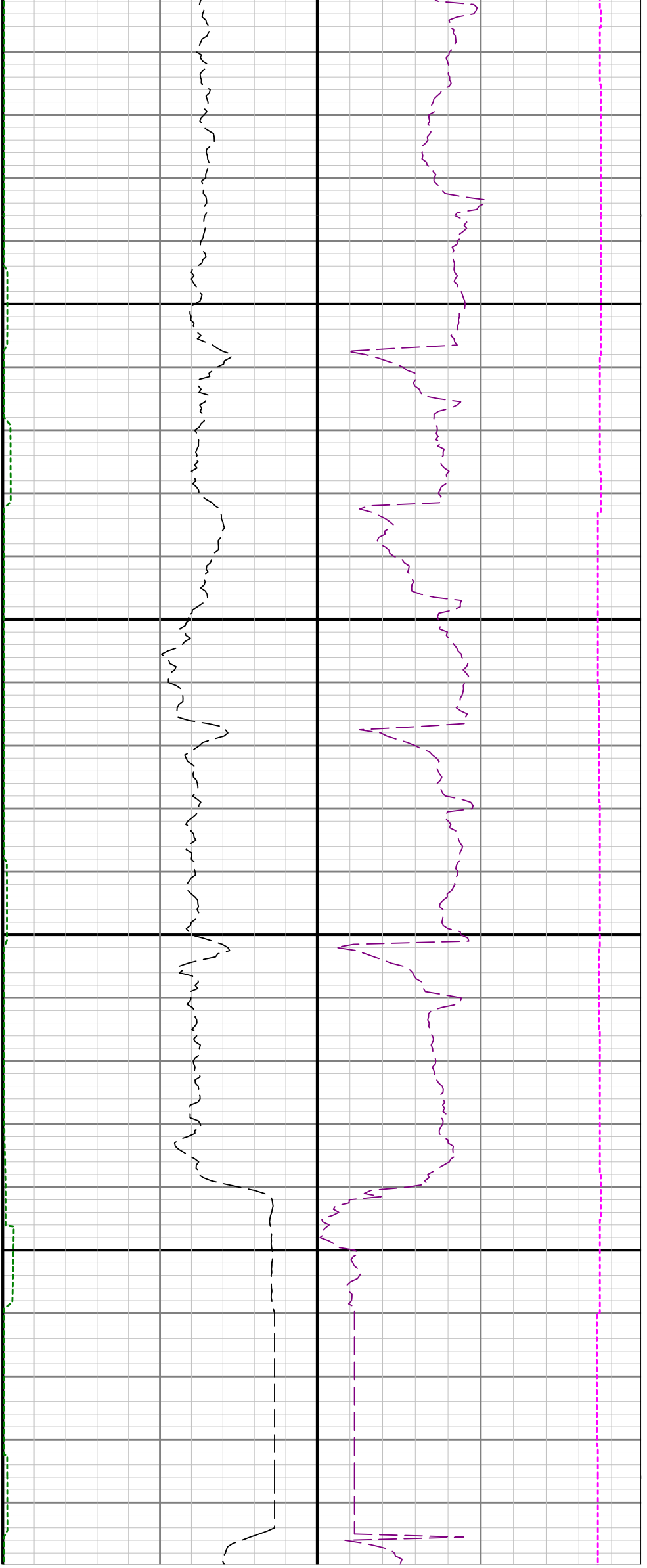
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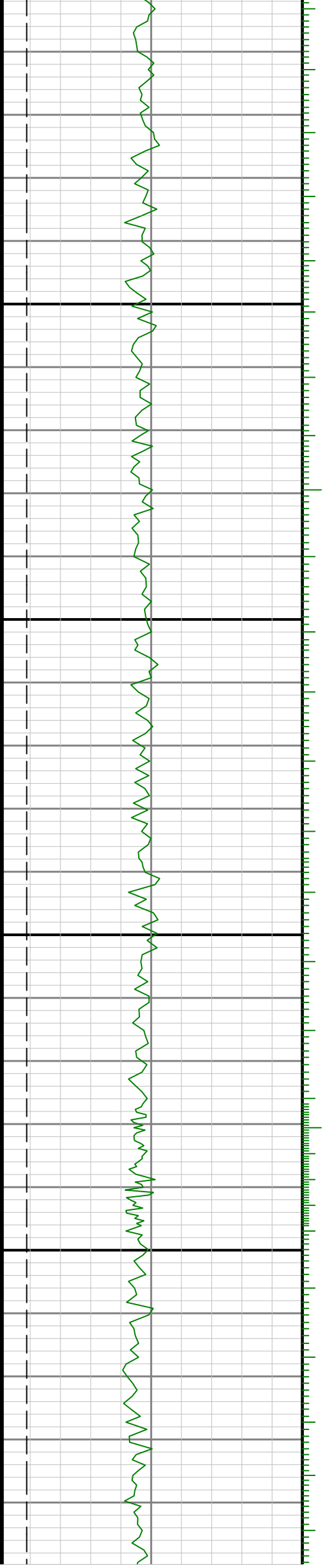


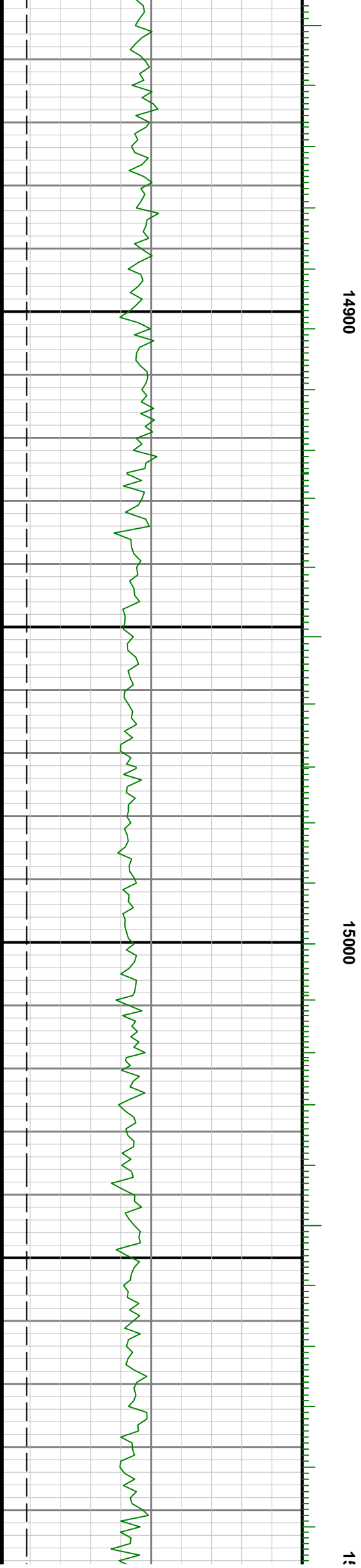
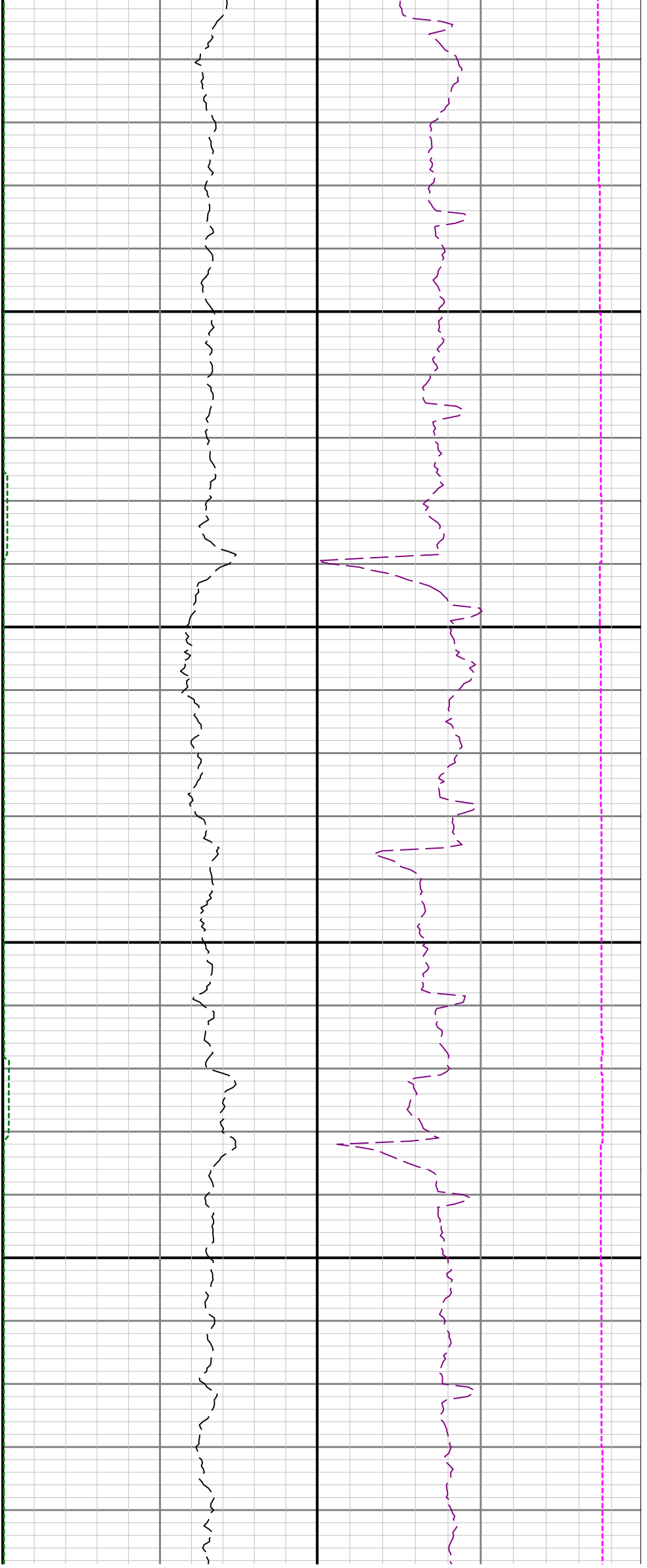


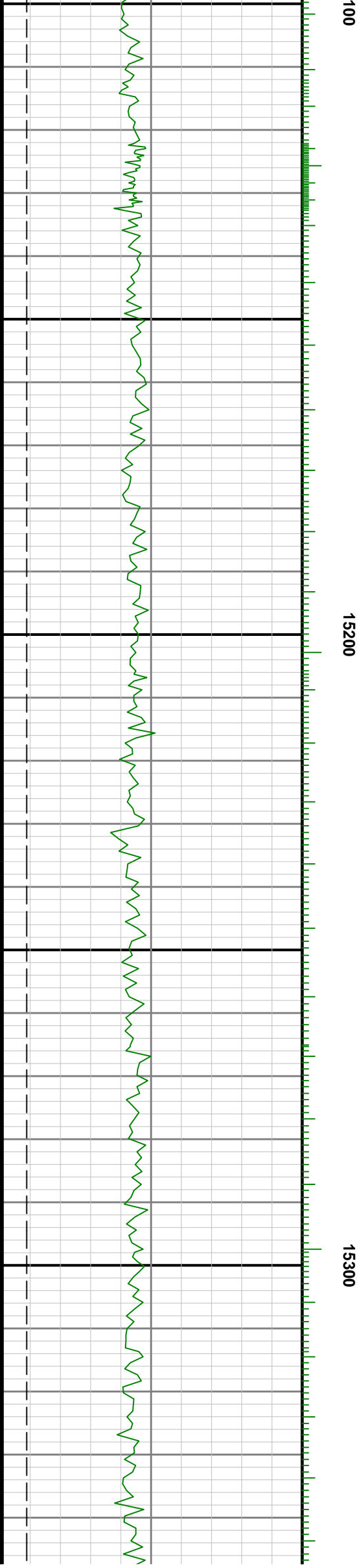
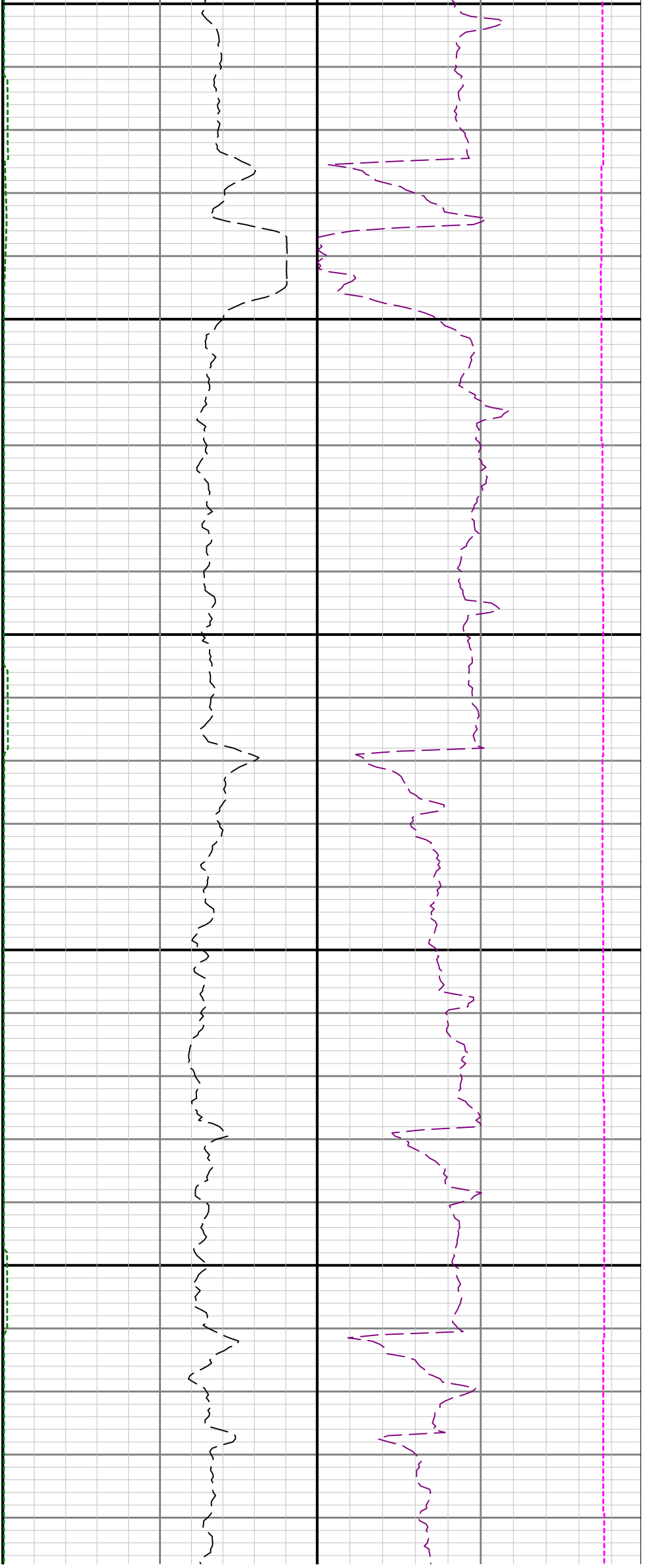


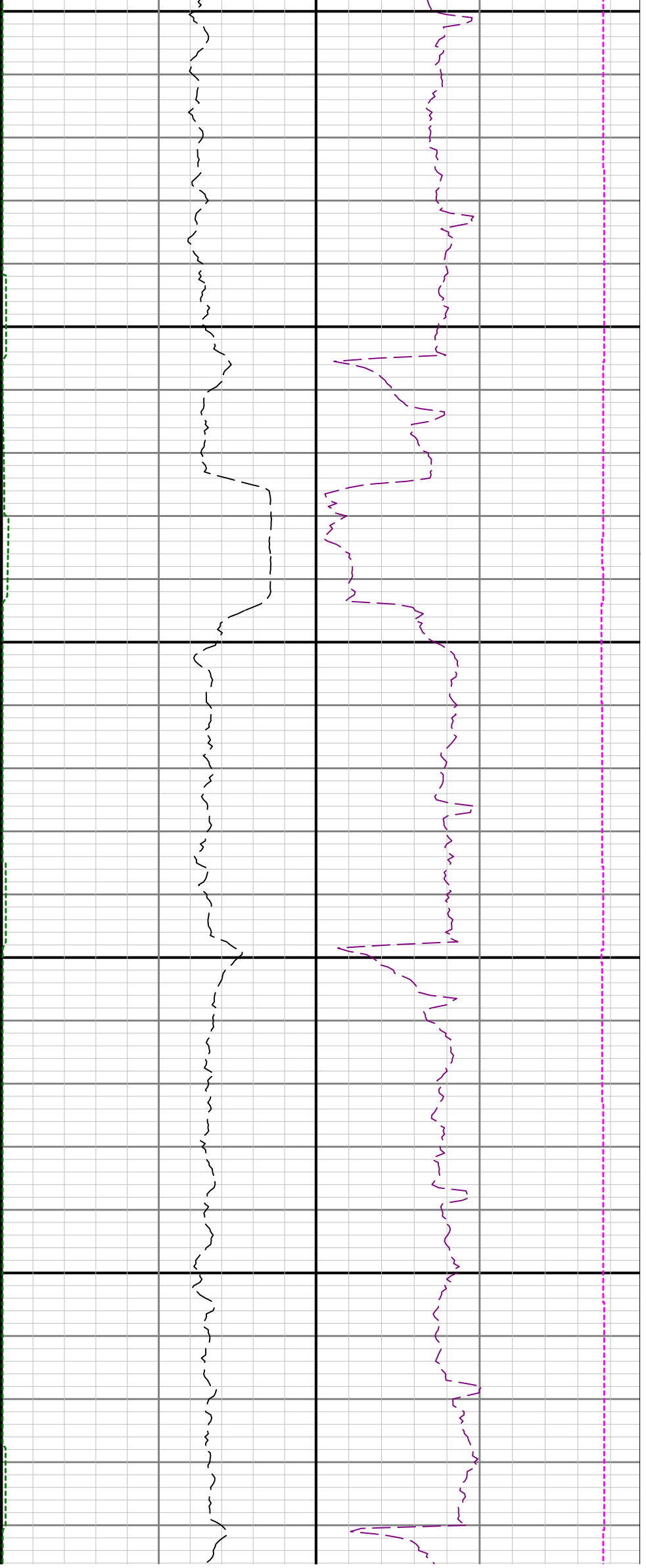
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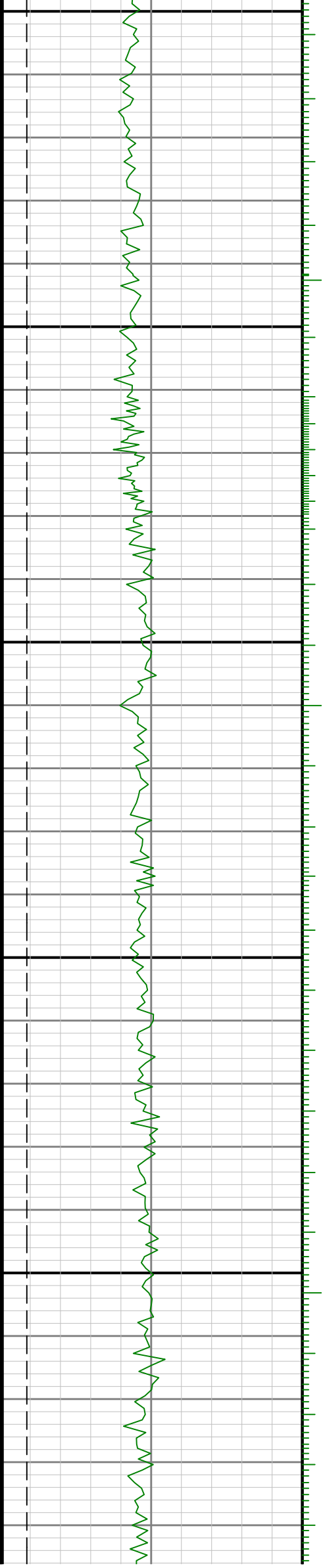


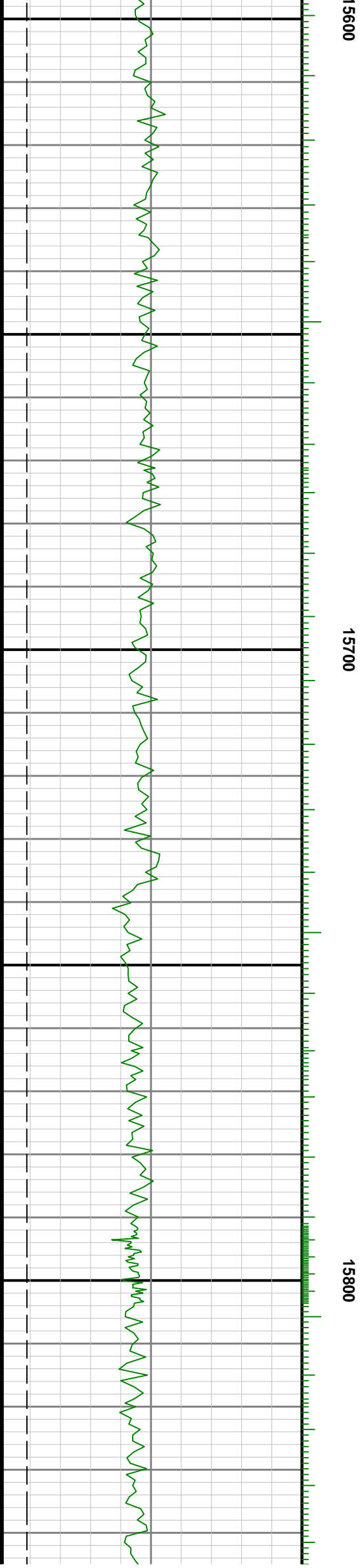


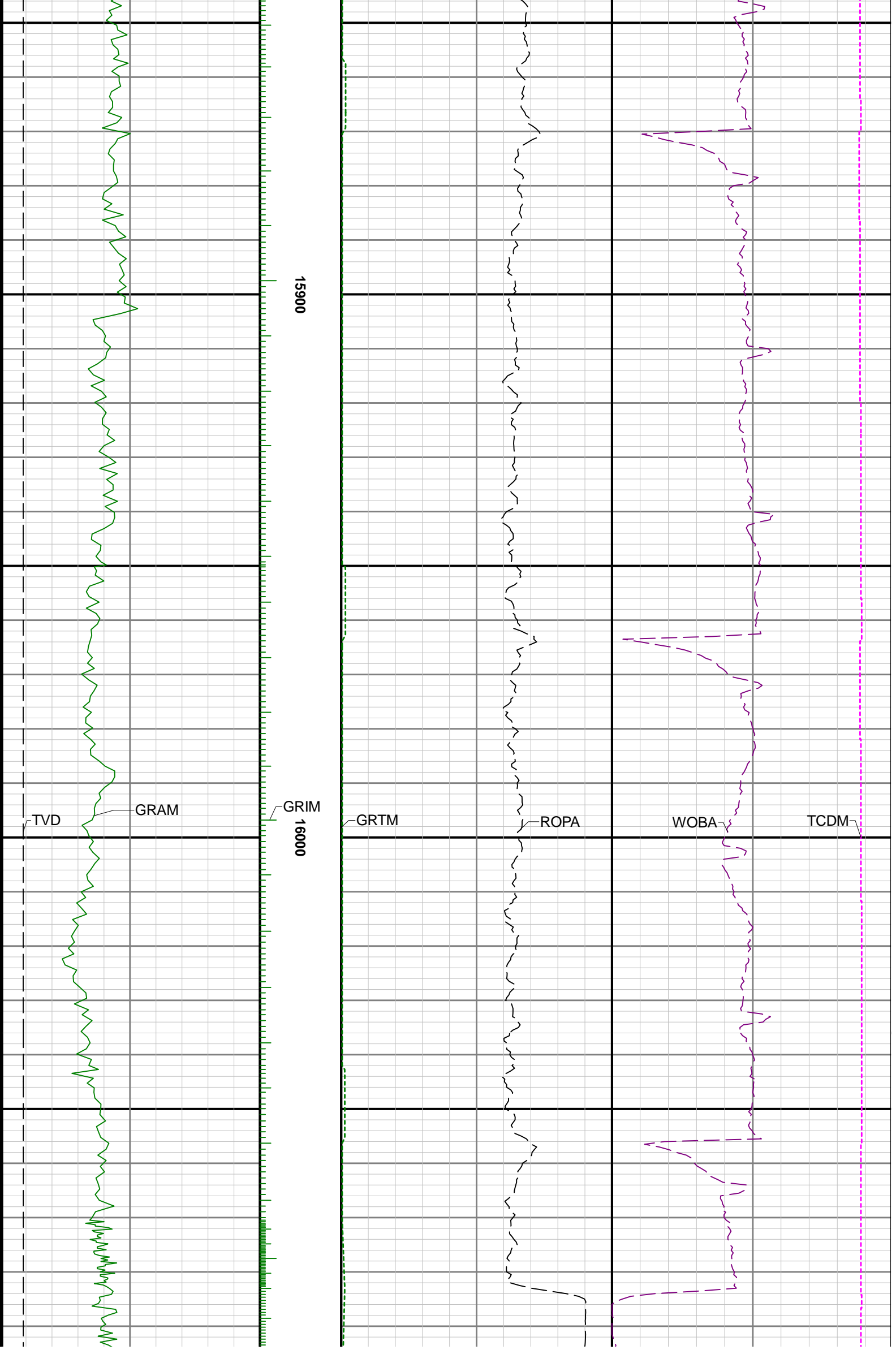


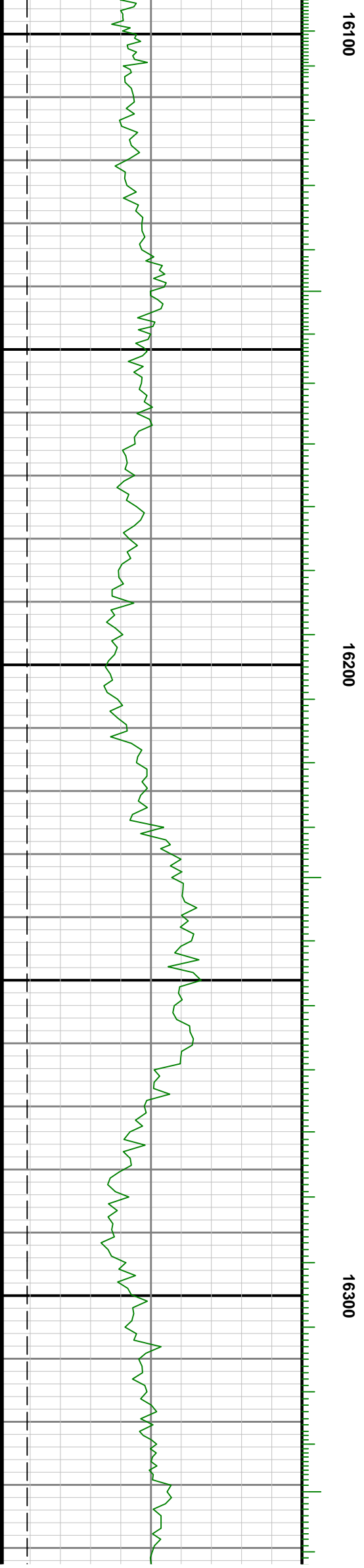
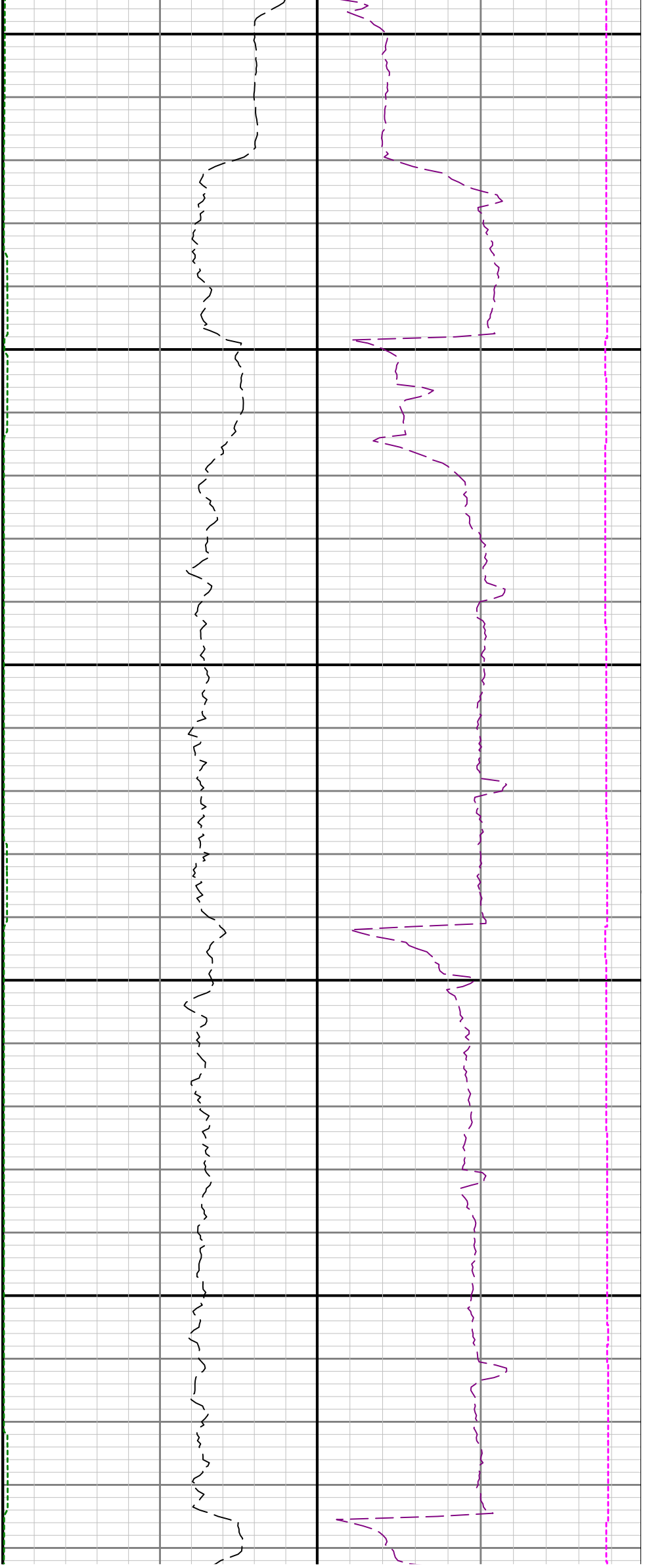
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15500











16400

16500

