

| | | | | | | | |
|---|------------------------------|----------|----------------------|-------|-------|-------|-------|
| 1 | AutoTrak Curve Steering Unit | 14316021 | Near Bit VSS | 5.93 | 6.78 | 7.000 | 4.330 |
| 1 | AutoTrak Curve MWD | 14367858 | Gamma (single) | 2.77 | 12.95 | 6.750 | 3.250 |
| 1 | AutoTrak Curve MWD | 14367858 | Directional (mag) | 12.27 | 22.45 | 6.750 | 3.250 |
| 2 | AutoTrak Curve Steering Unit | 12296375 | Near Bit VSS | 5.93 | 6.78 | 7.000 | 4.330 |
| 2 | AutoTrak Curve Steering Unit | 12296375 | Near Bit Inclination | 5.93 | 6.78 | 7.000 | 4.330 |
| 2 | AutoTrak Curve MWD | 12271546 | Gamma (single) | 2.76 | 12.95 | 7.000 | 3.250 |
| 2 | AutoTrak Curve MWD | 12271546 | Directional (mag) | 12.27 | 22.46 | 7.000 | 3.250 |

Service and Tool Mnemonics

| Mnemonic | Name | Description |
|----------|---------------------|-------------------------------|
| ATC SU | AutoTrak Curve SU | Auto Trak Curve Steering Unit |
| ATC MWD | AutoTrak Curve MWD | Auto Trak Curve MWD |
| ATC LCPM | AutoTrak Curve LCPM | Auto Trak Curve LCPM |

Comments

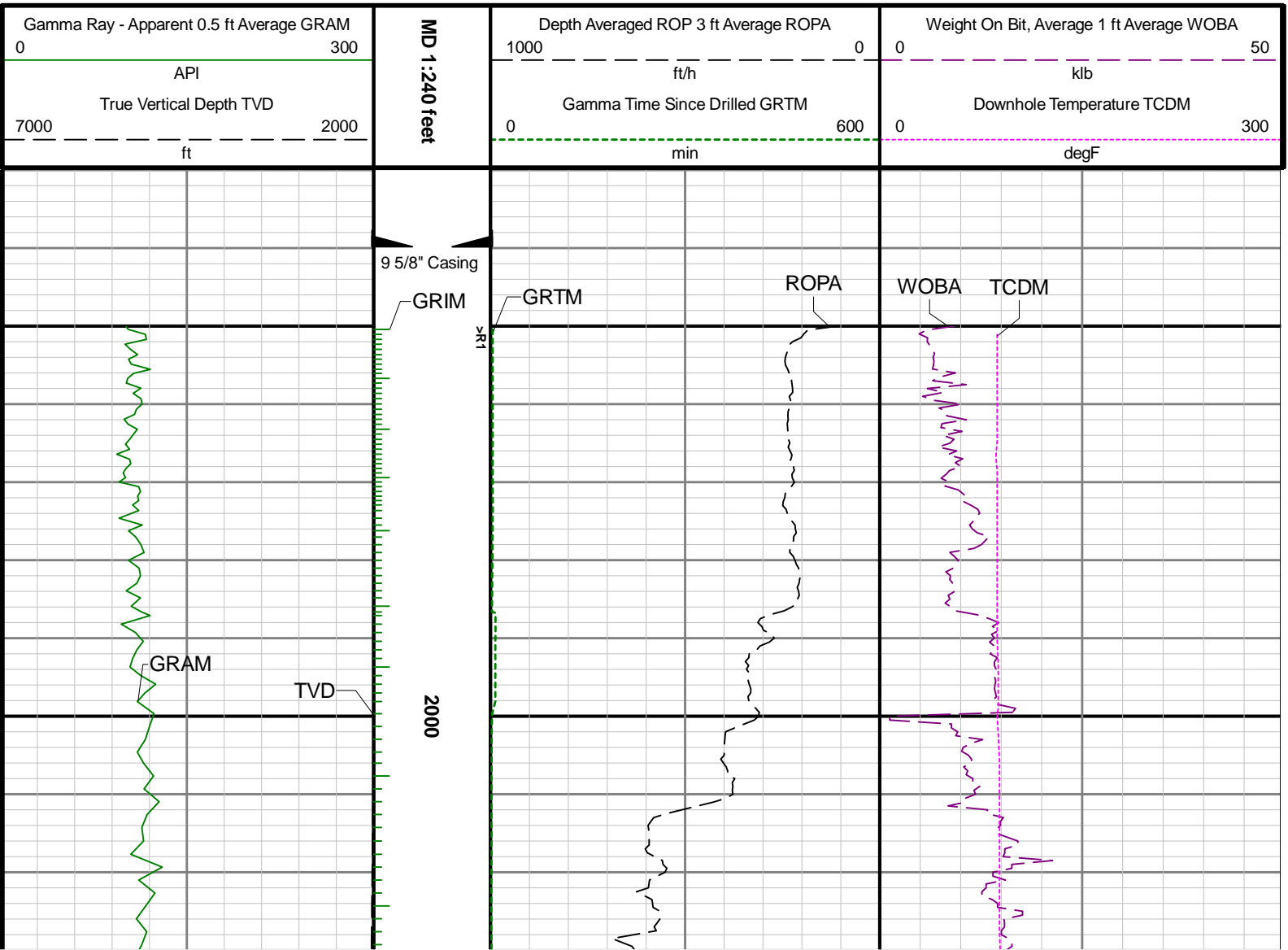
| | |
|---|---|
| 1 | Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified. |
| 2 | Baker Hughes LWD Run 1 and 2 utilized 6 ¾ inch NaviGamma service (Gamma Ray and Directional) behind an 8 1/2 inch bit and rotary steerable assembly from 1950 to 16905 feet MD (1950 to 6576 feet TVD). |
| 3 | The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request. |

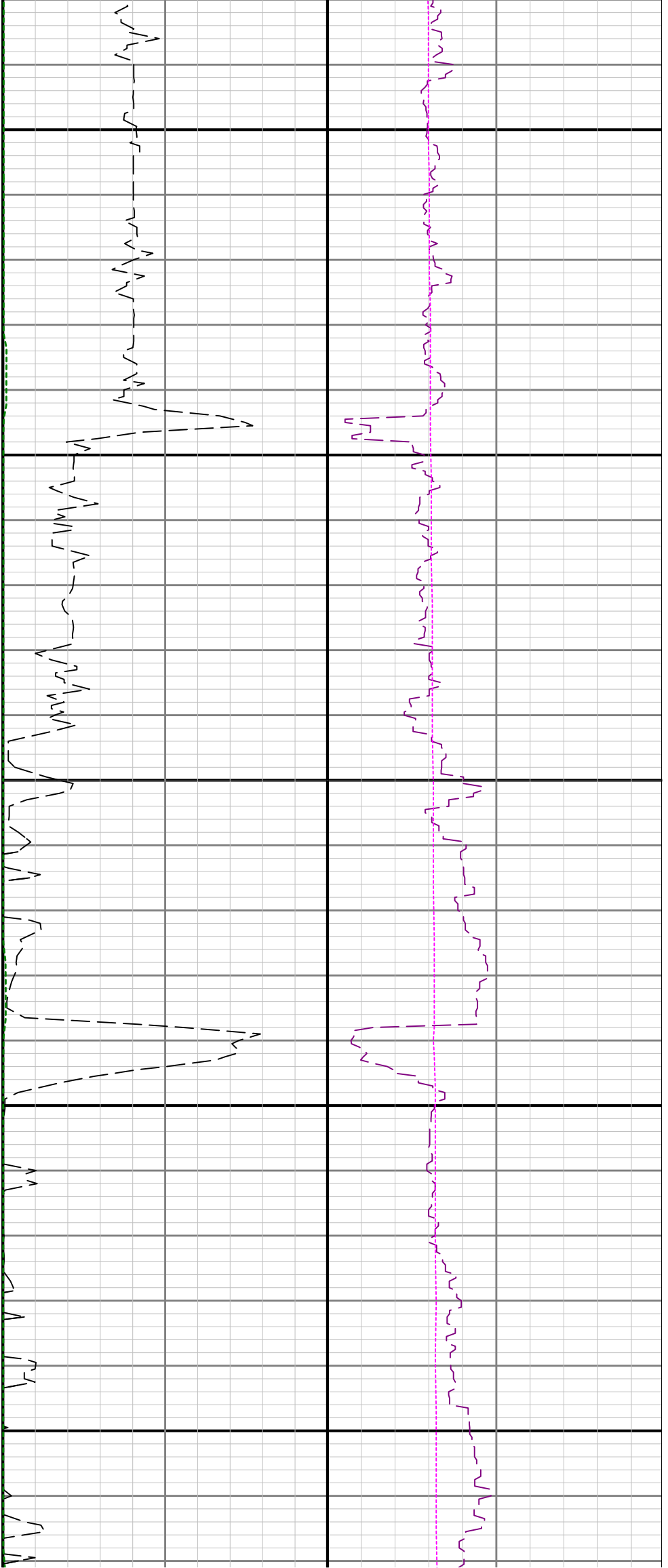
Remarks

| Number | Depth (ft) | Hole Section (in) | Run No. | Remark |
|--------|---------------|-------------------------|------------|--|
| 1 | 11393.00 | 8.500 | 2 | The interval from to 11393 to 11406 feet MD (6563 feet TVD) was logged up to 13 hours after being drilled due to a trip out of hole to change out BHA. |
| 2 | 16891.00 | 8.500 | 2 | The interval from 16891 to 16905 feet MD (6576 feet TVD) was not logged due to sensor to bit offset at well TD. |

Curve Mnemonics

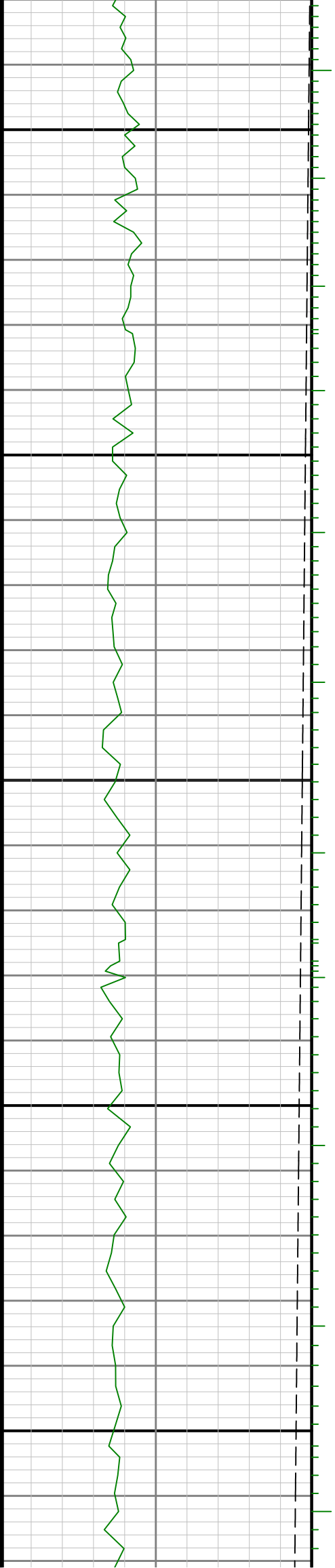
| Presented Curves | Description | Units |
|------------------|--|----------|
| ROPA | Depth Averaged ROP 3 ft Average | ft/h |
| TVD | True Vertical Depth | ft |
| WOBA | Weight On Bit, Average 1 ft Average | klb |
| GRAM | Gamma Ray - Apparent - Memory 0.5 ft Average | API |
| GRIM | Gamma Ray - Data Point Indicator - Memory | unitless |
| GRTM | Gamma Ray - Time Since Drilled - Memory | min |
| TCDM | Directional Real-Time Survey Temperature | degF |

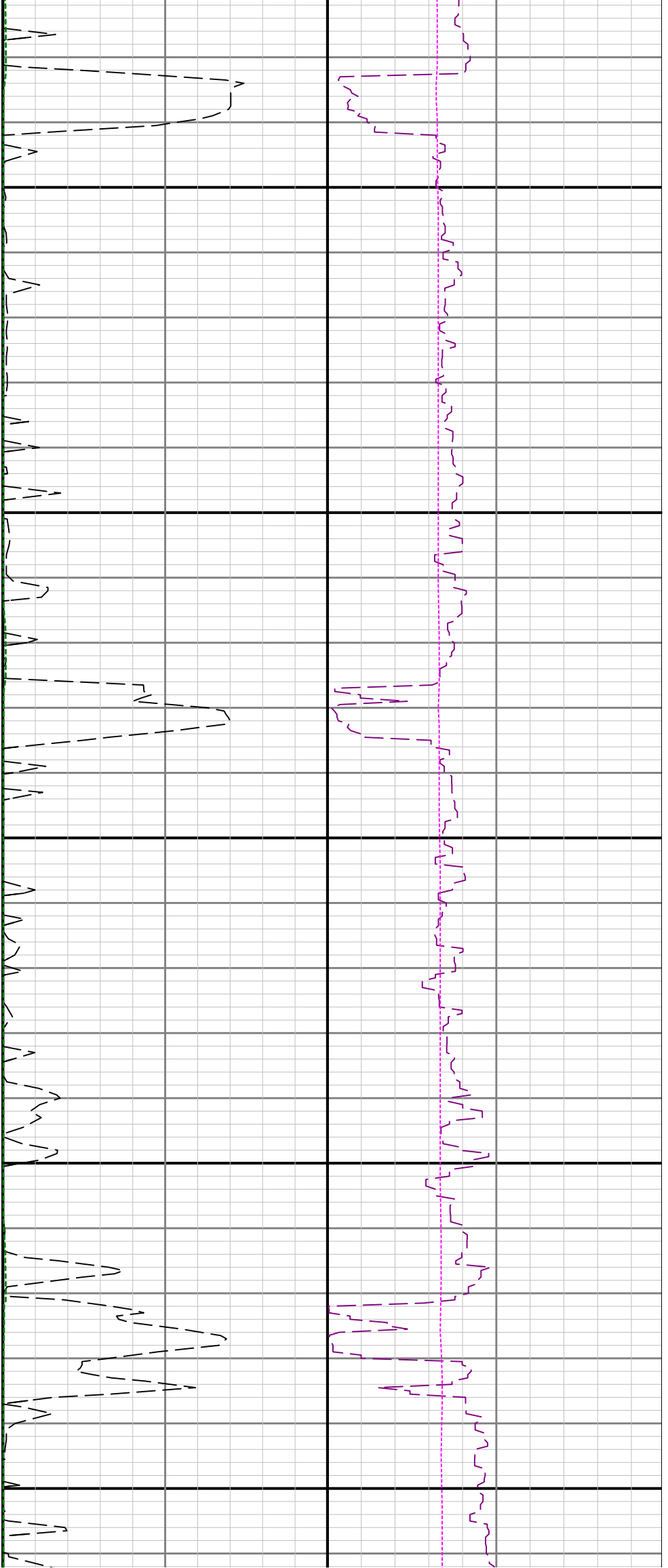




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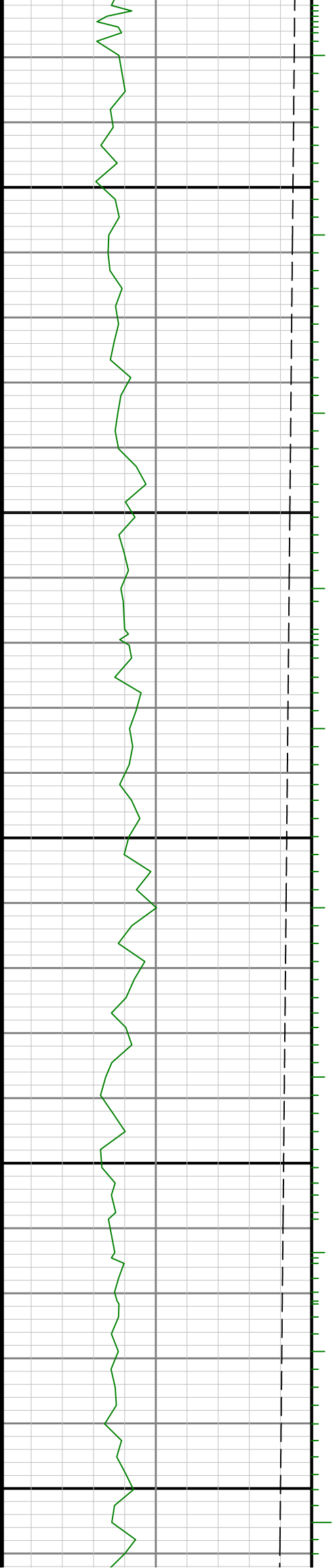


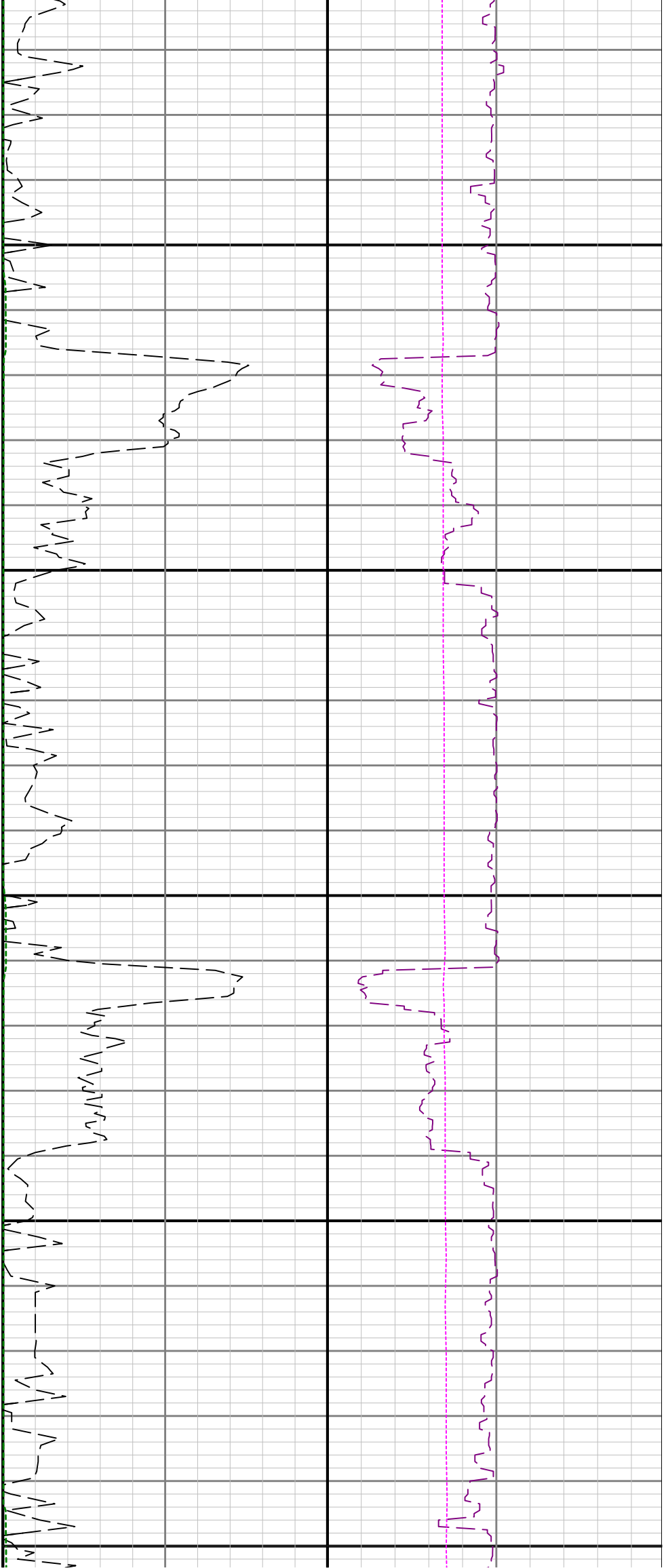


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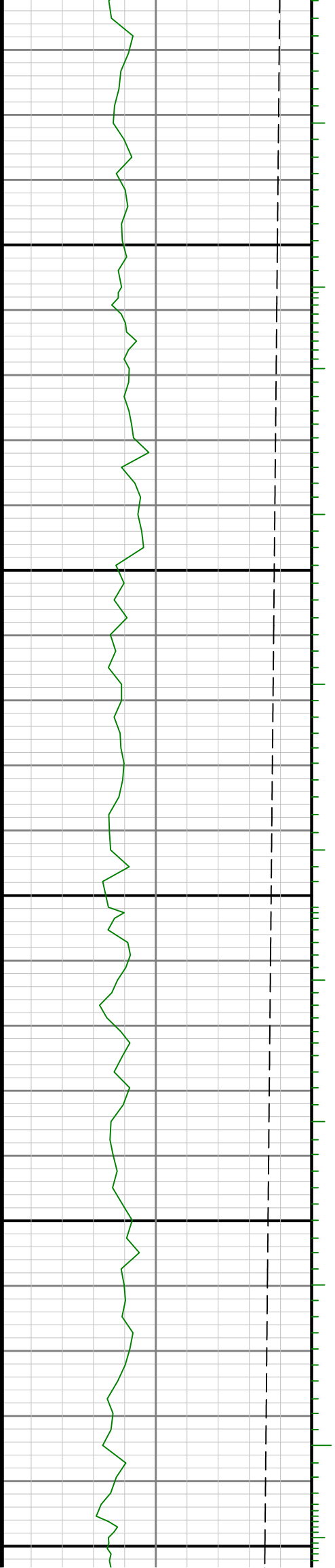
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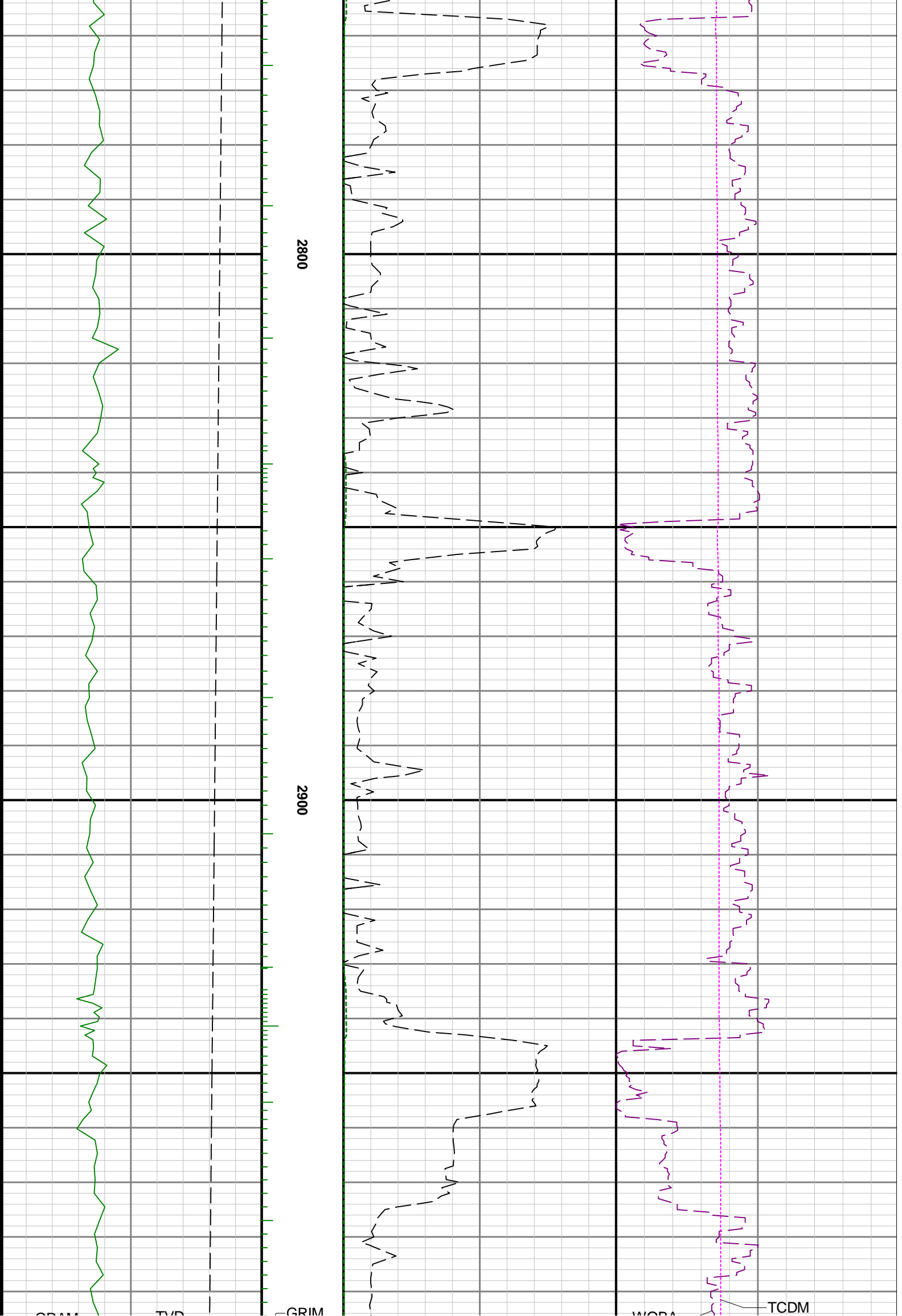


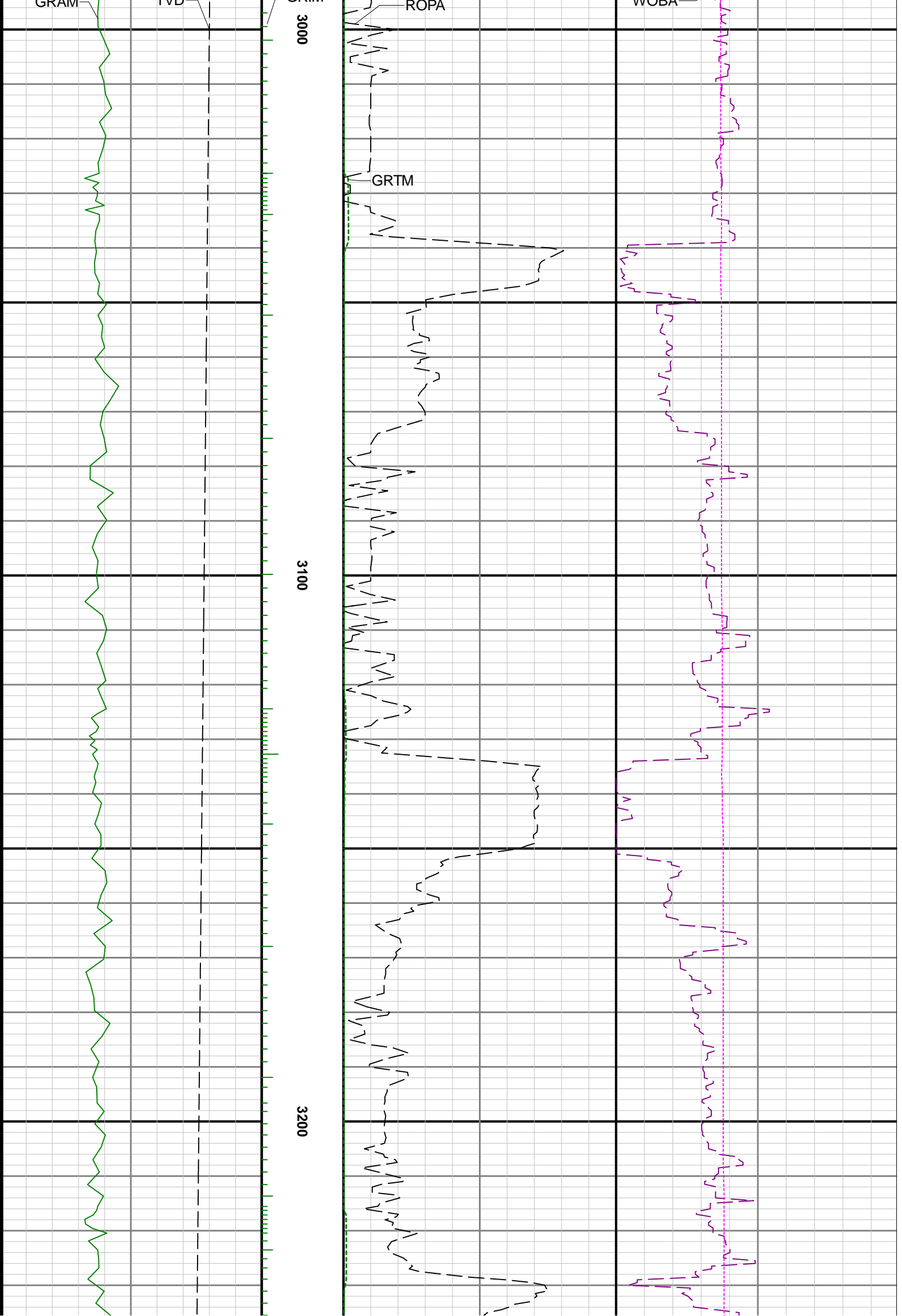


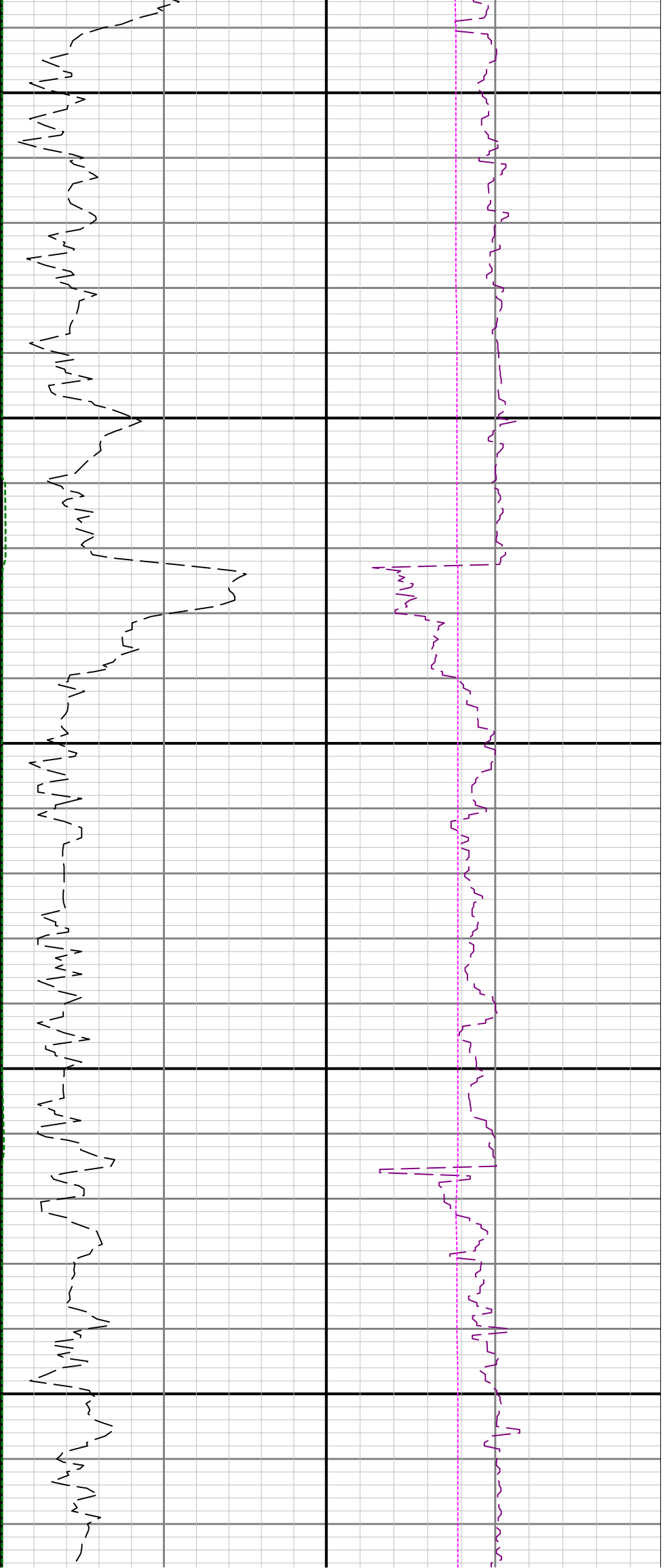
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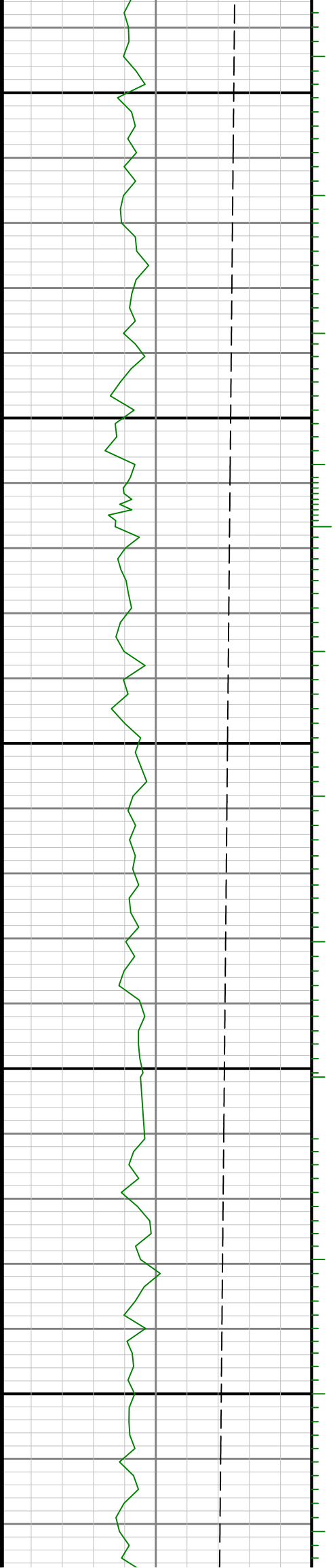


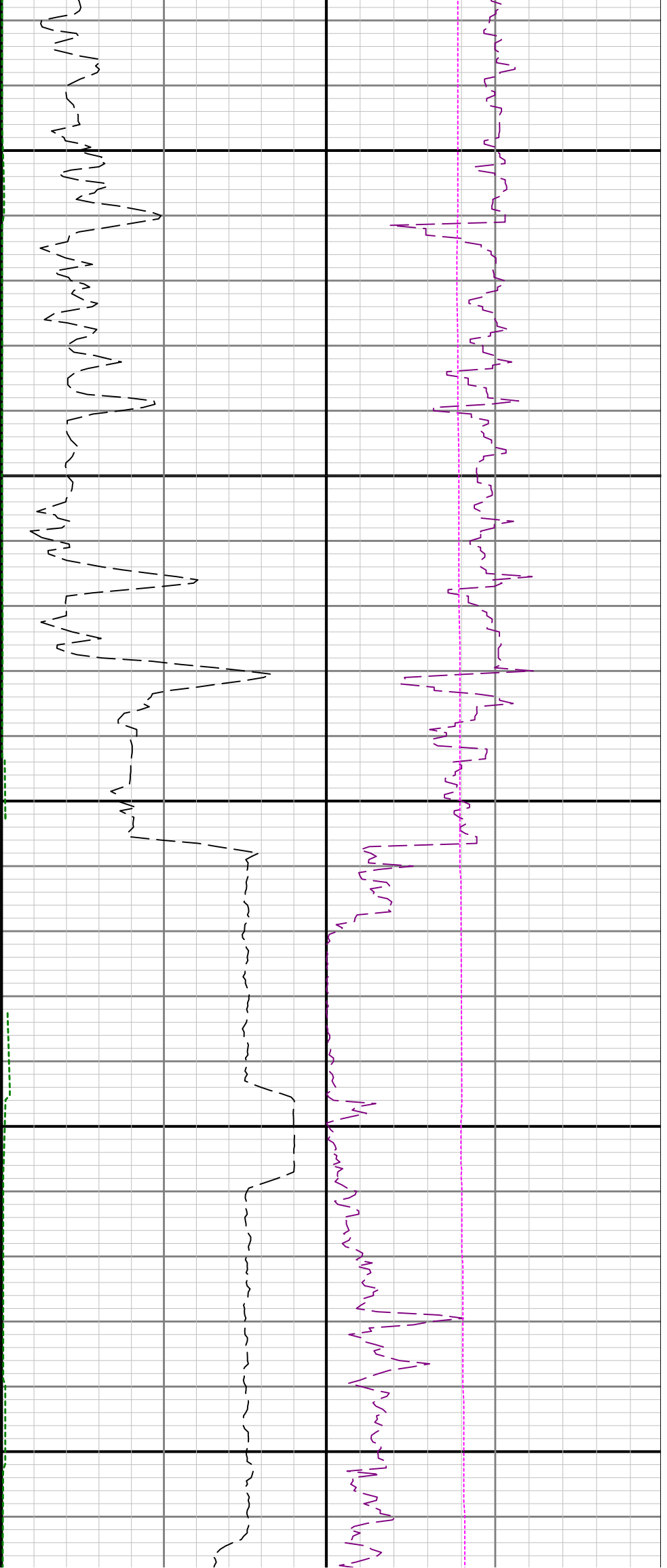




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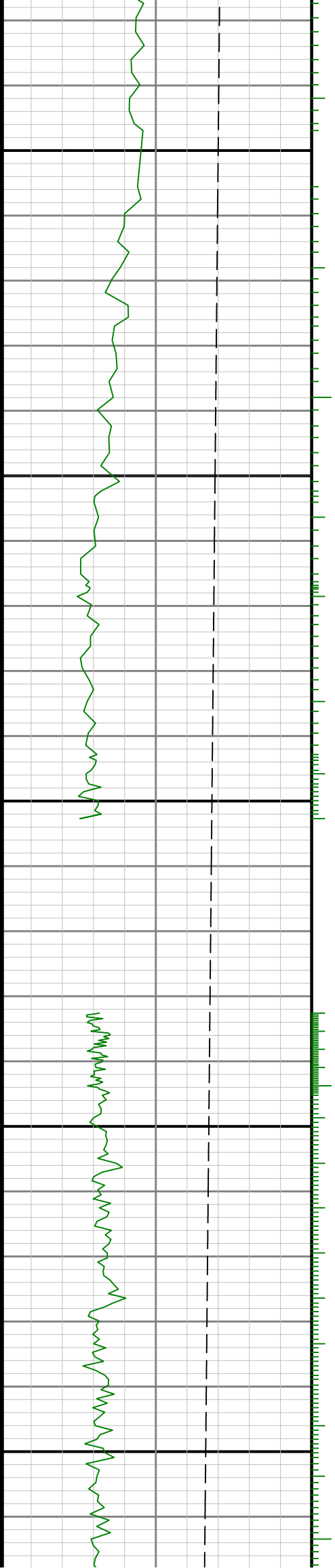


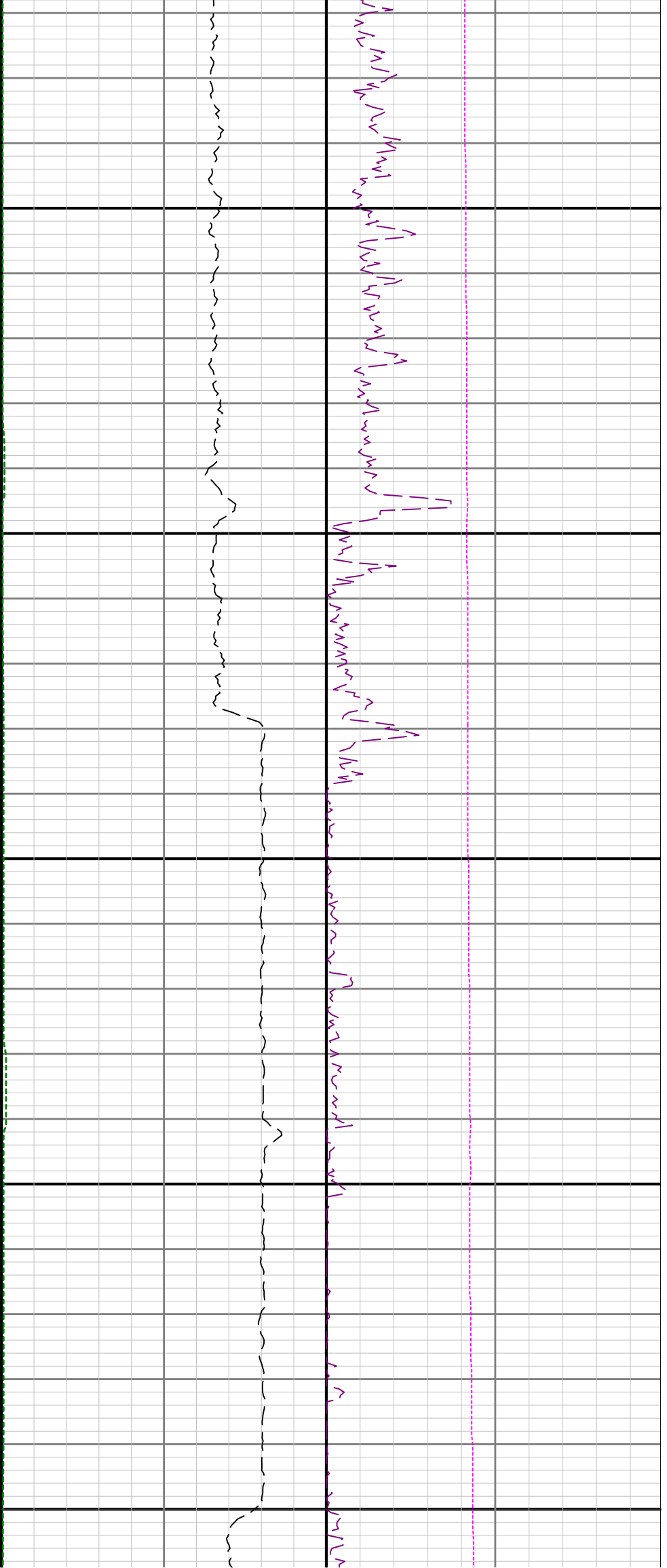


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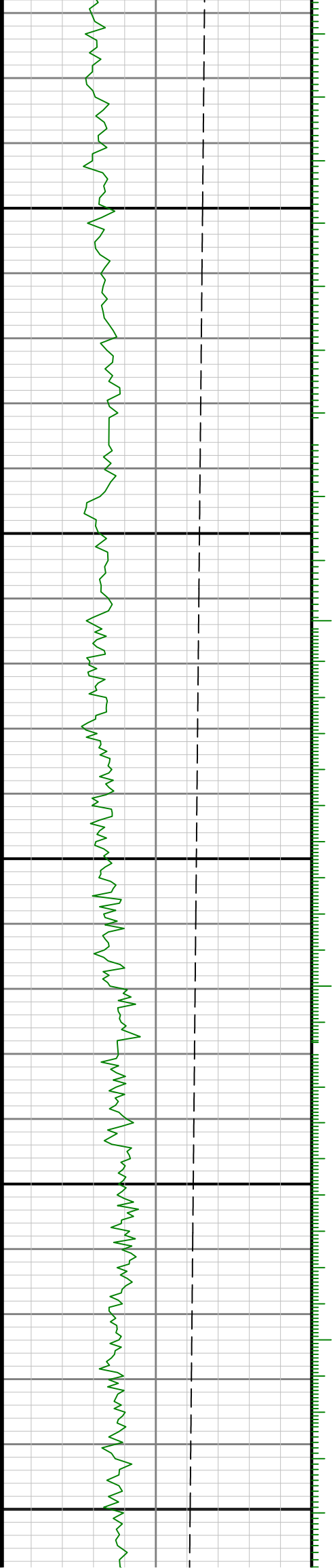
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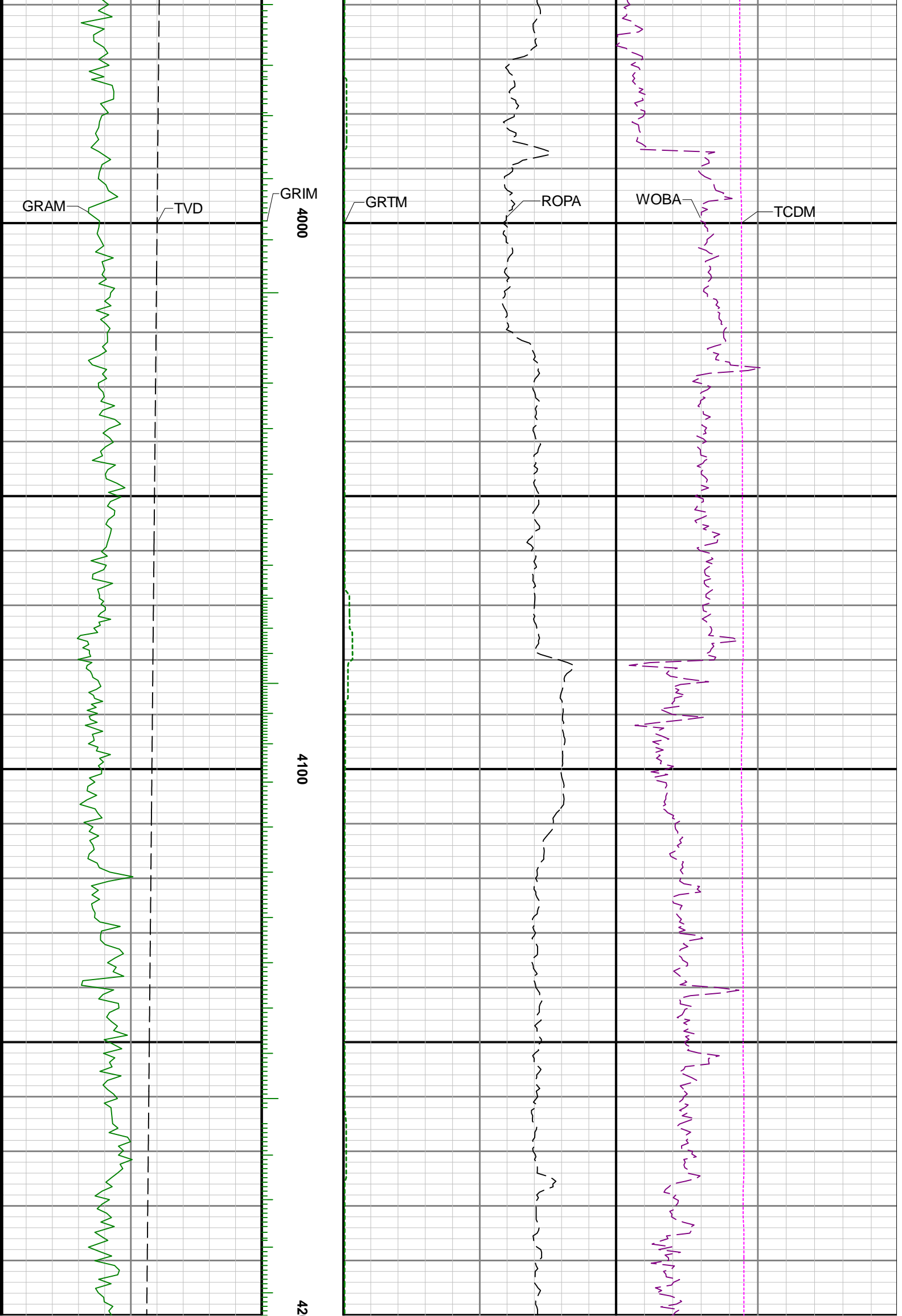


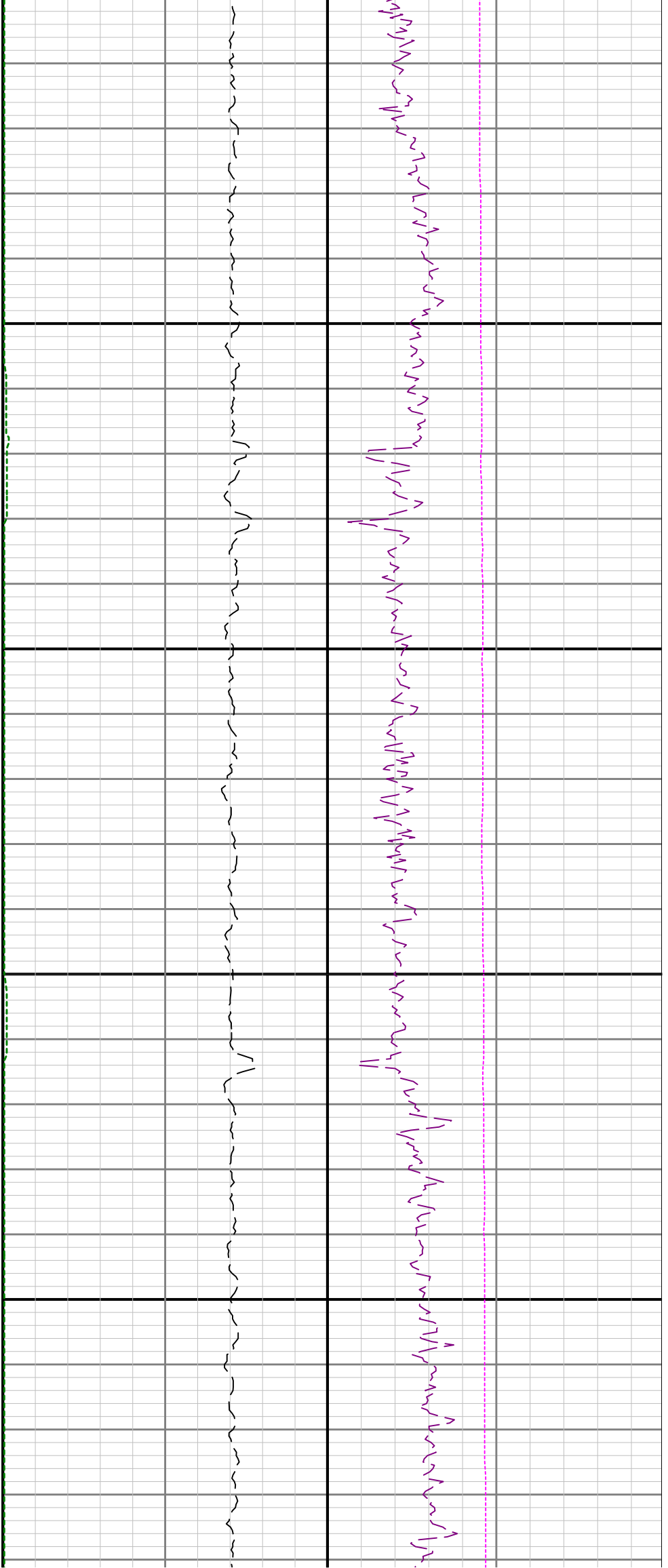


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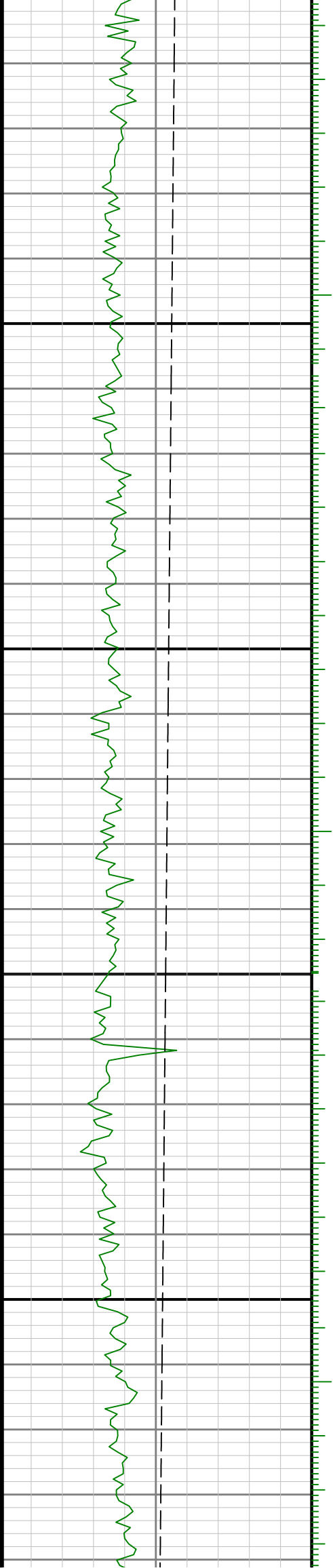
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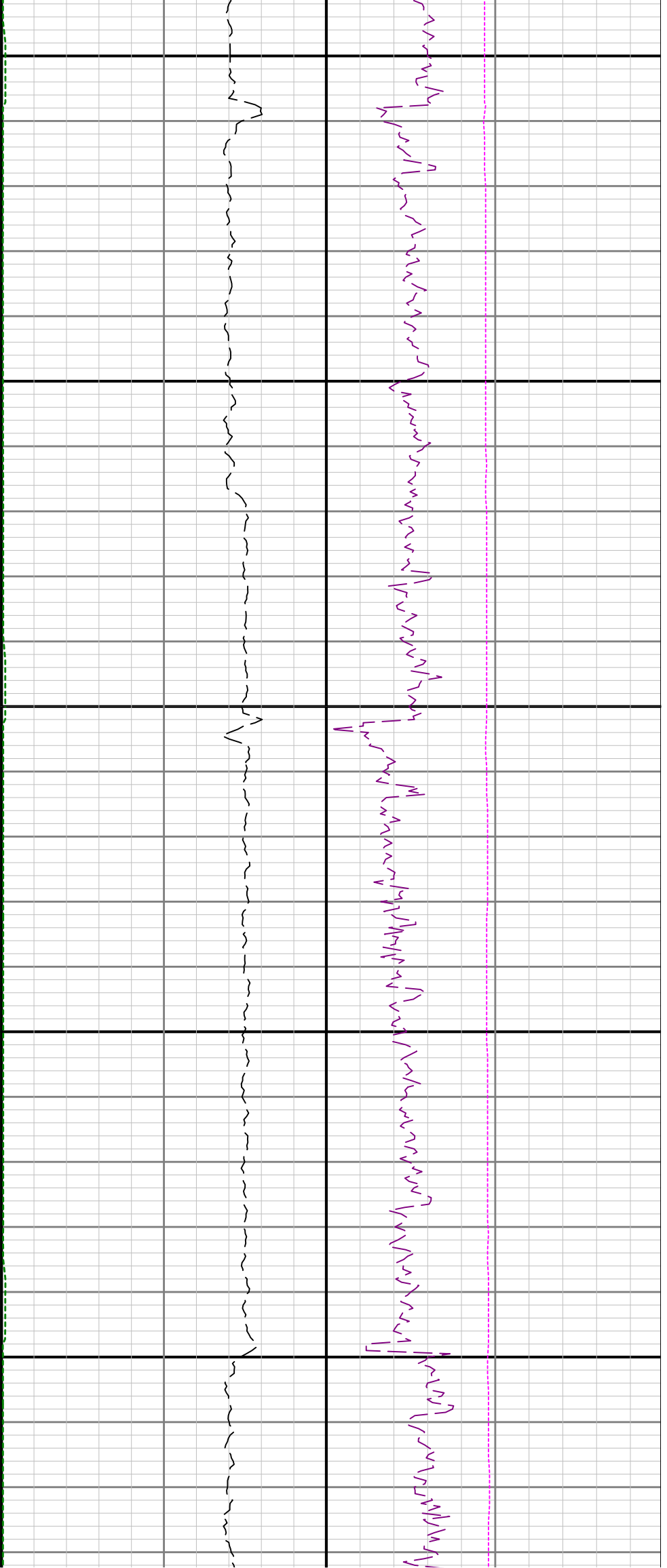






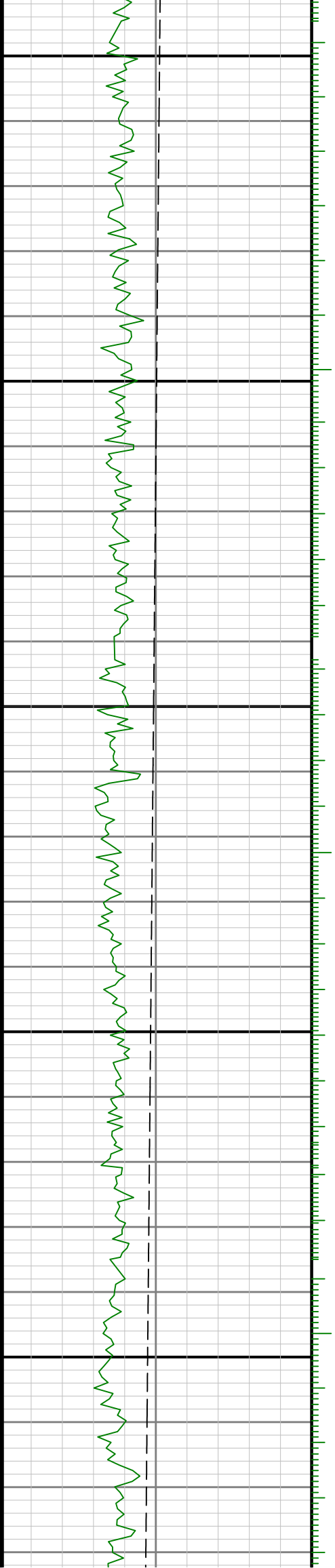
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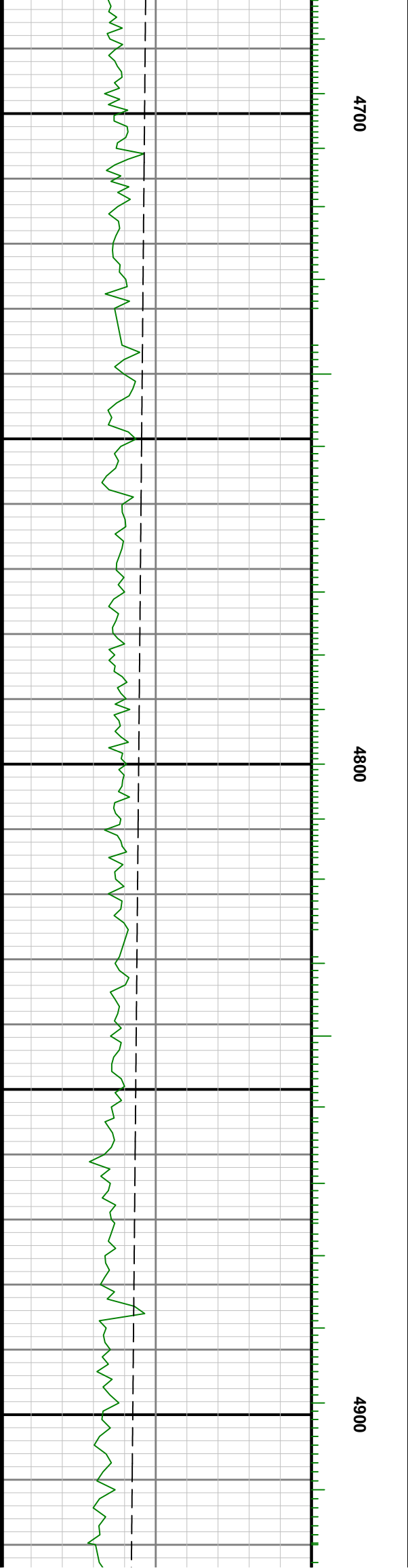
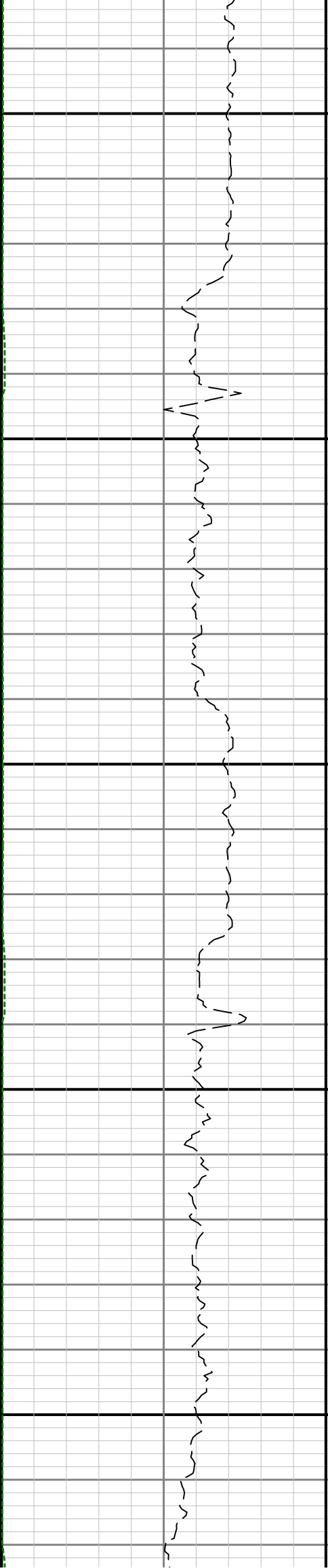
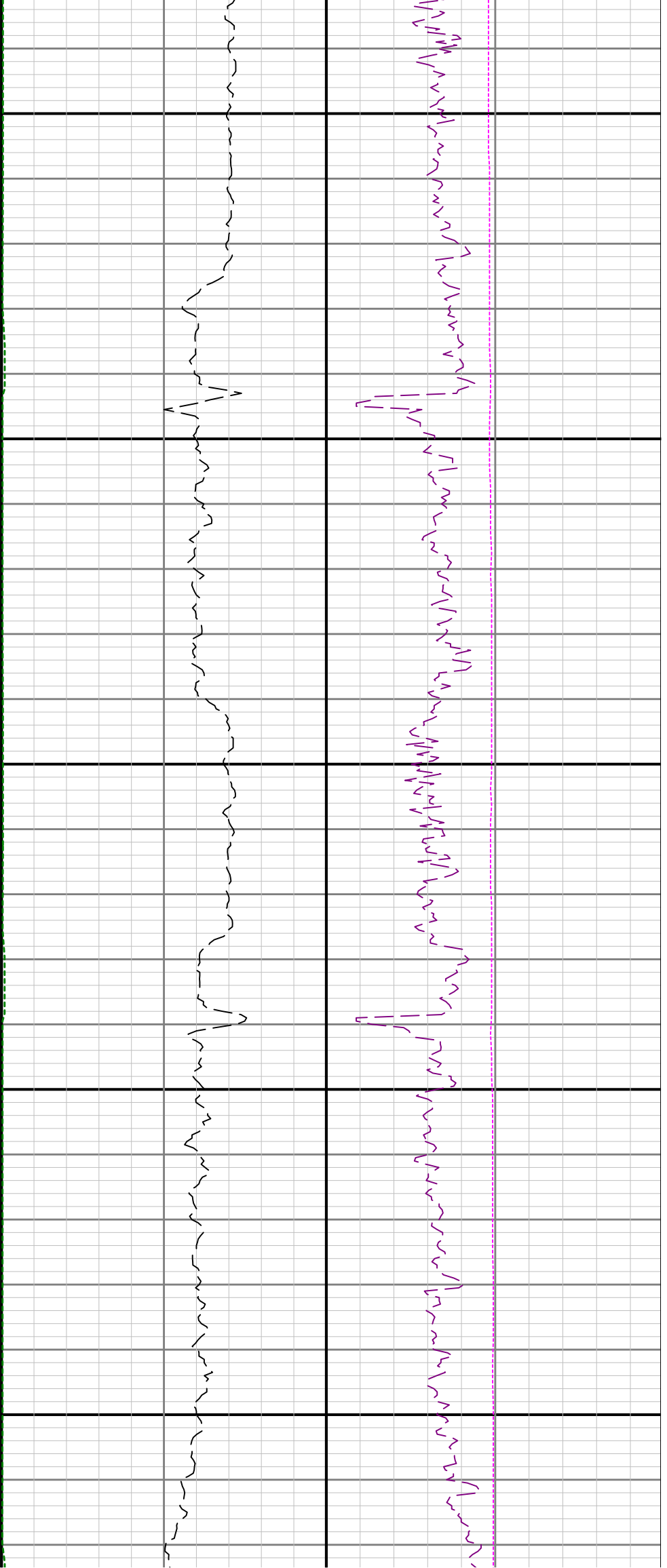


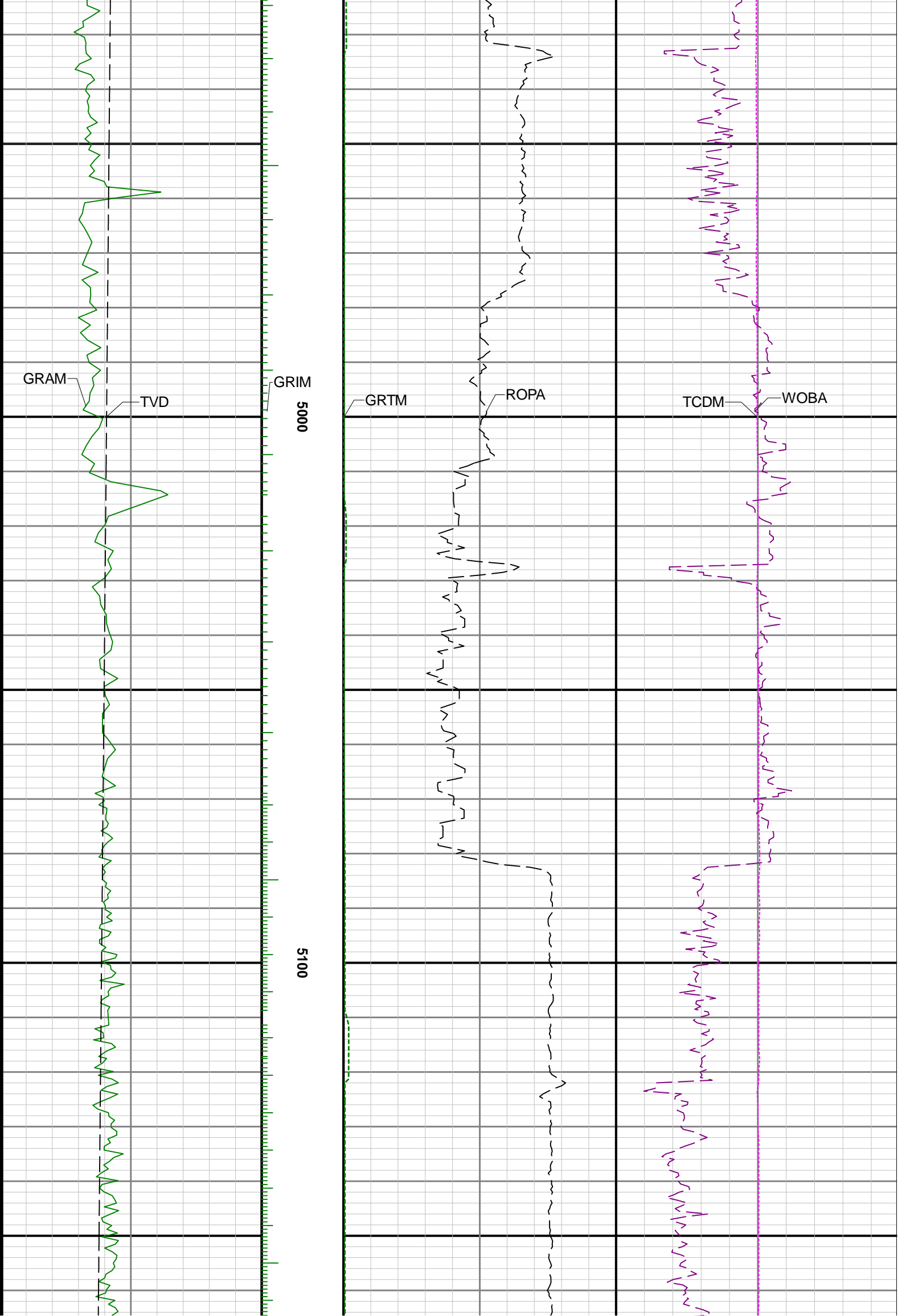


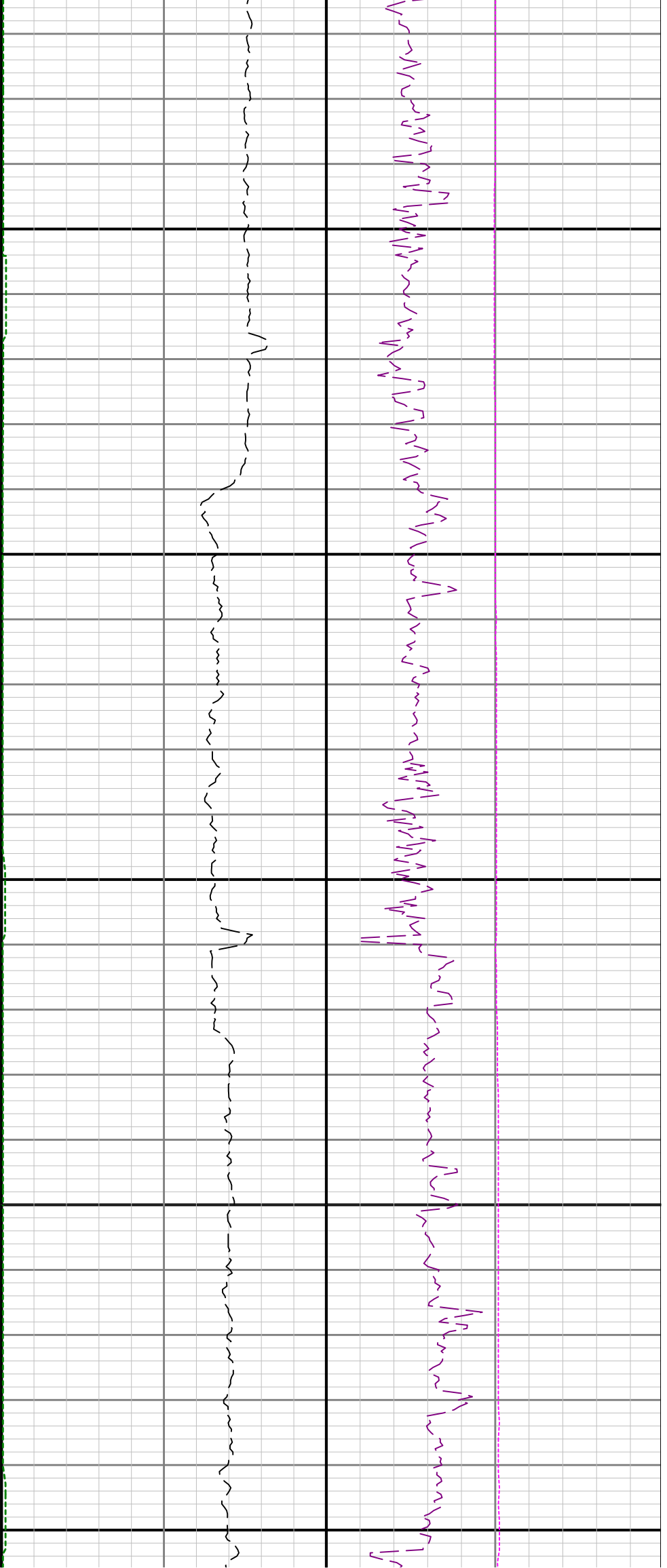
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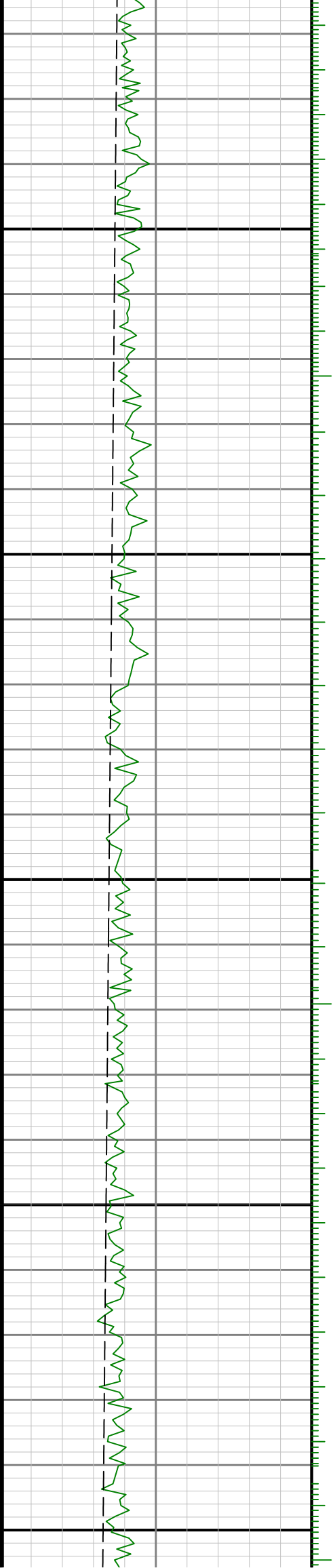


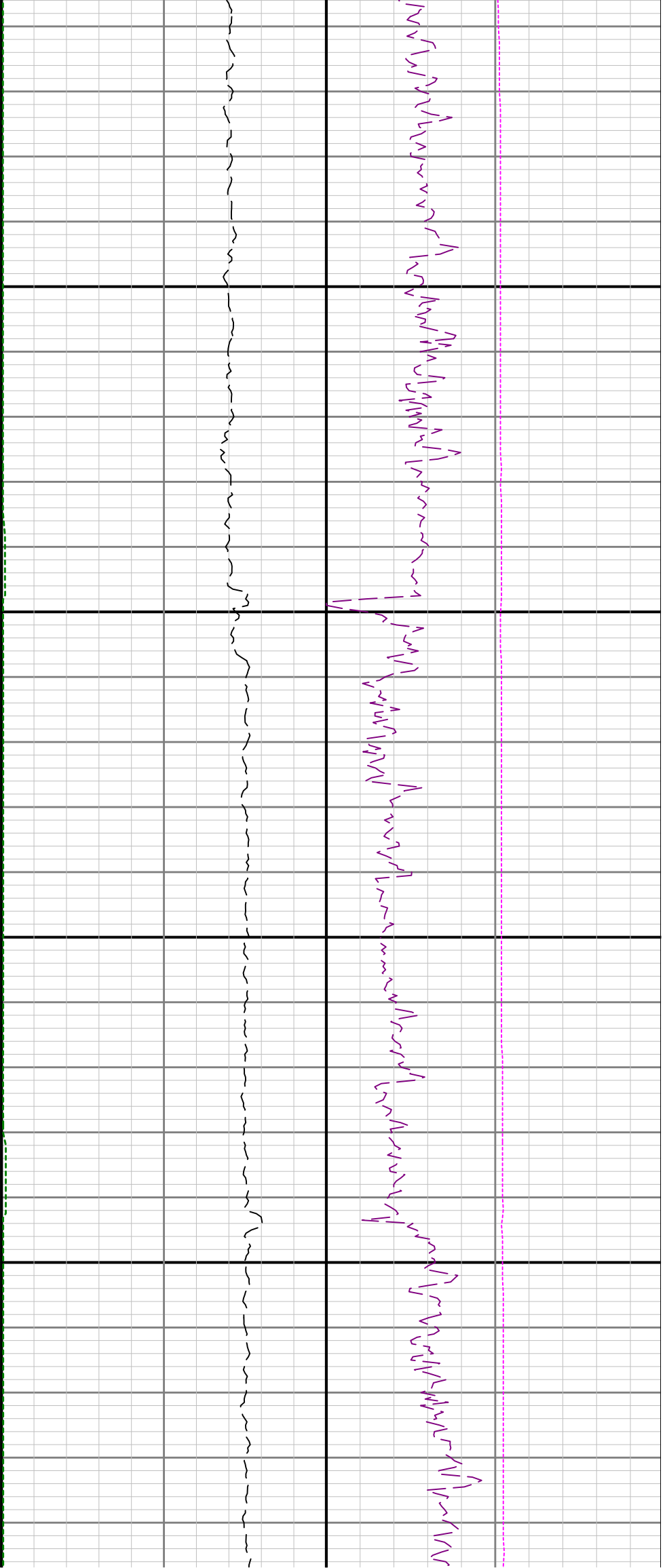


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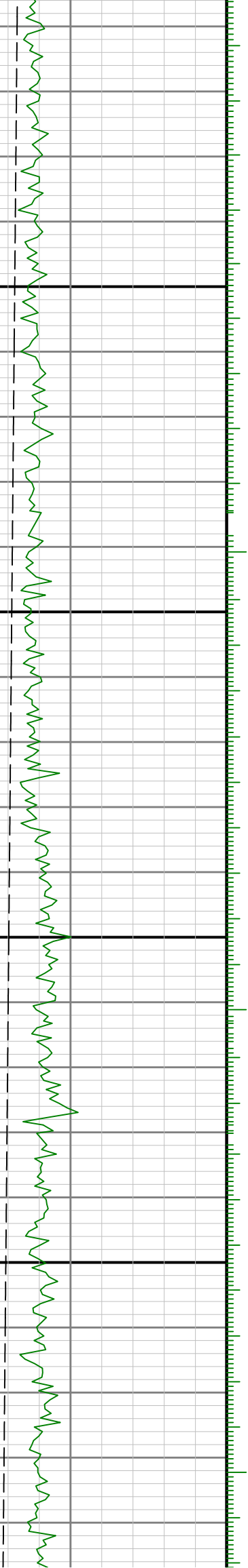
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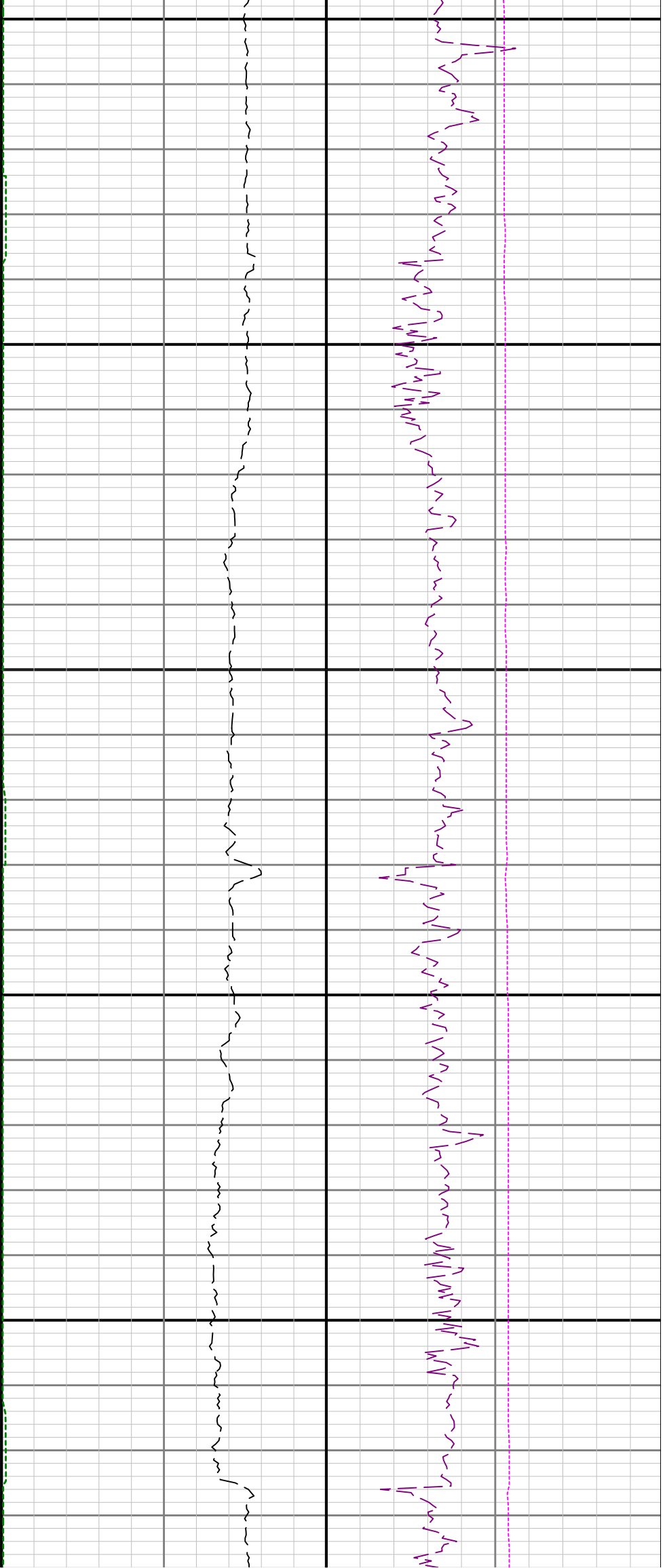




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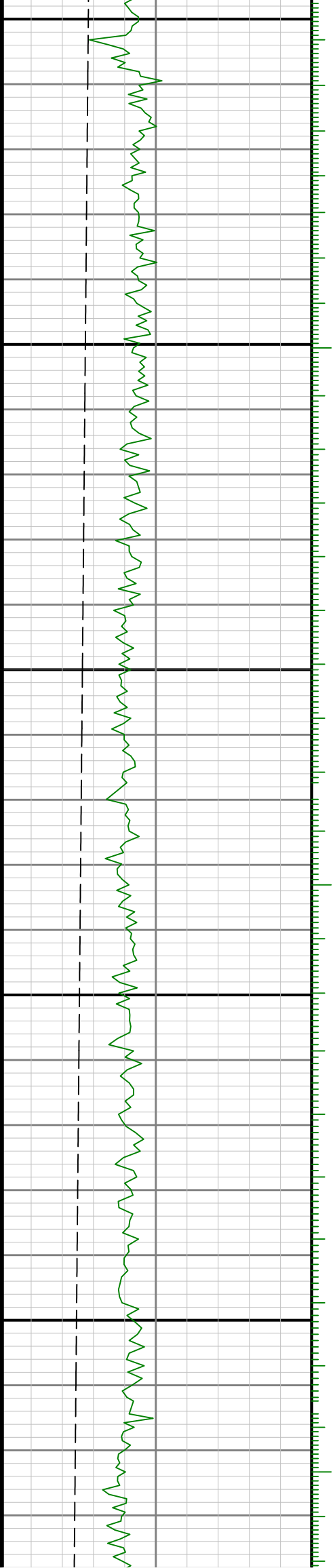
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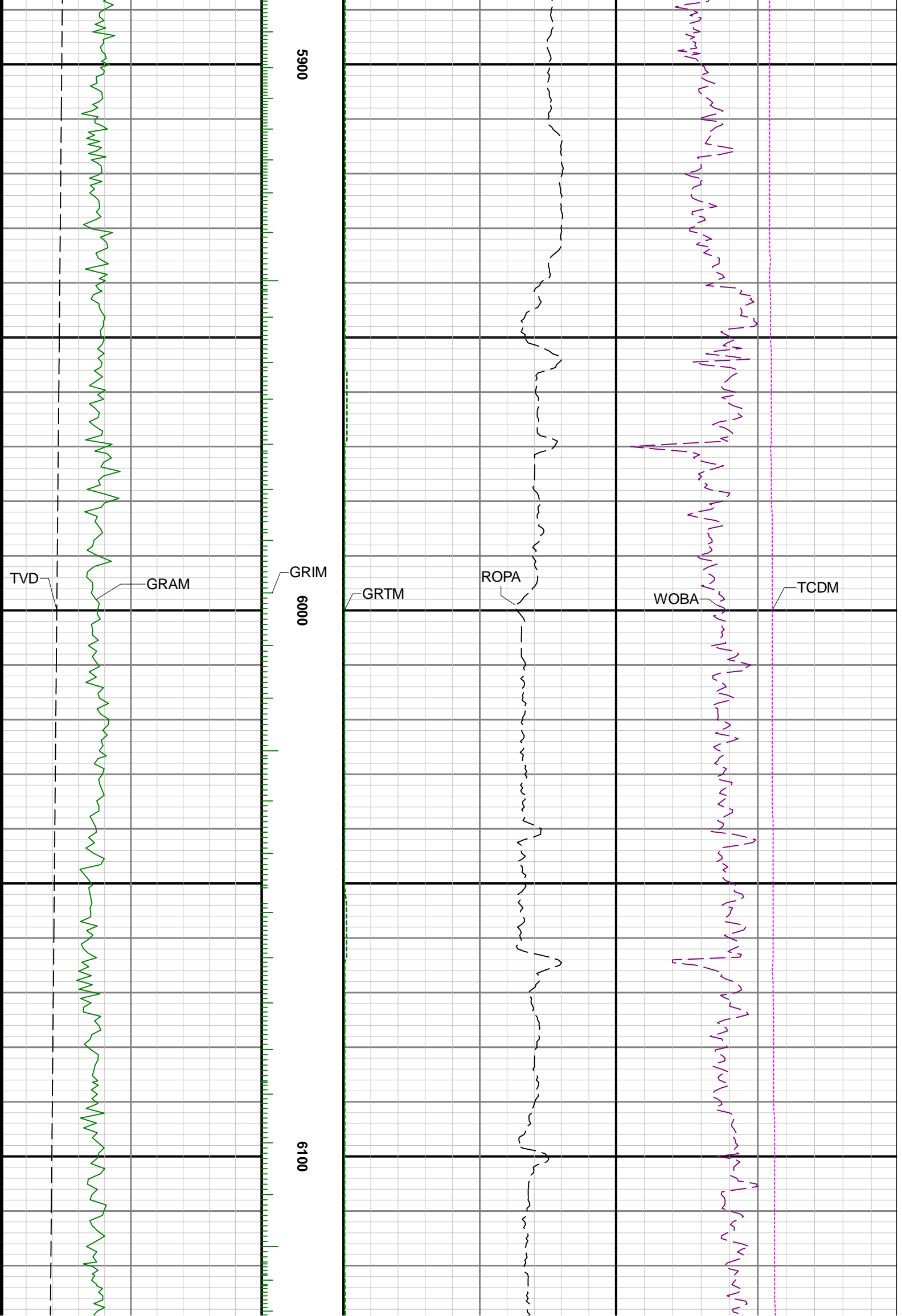


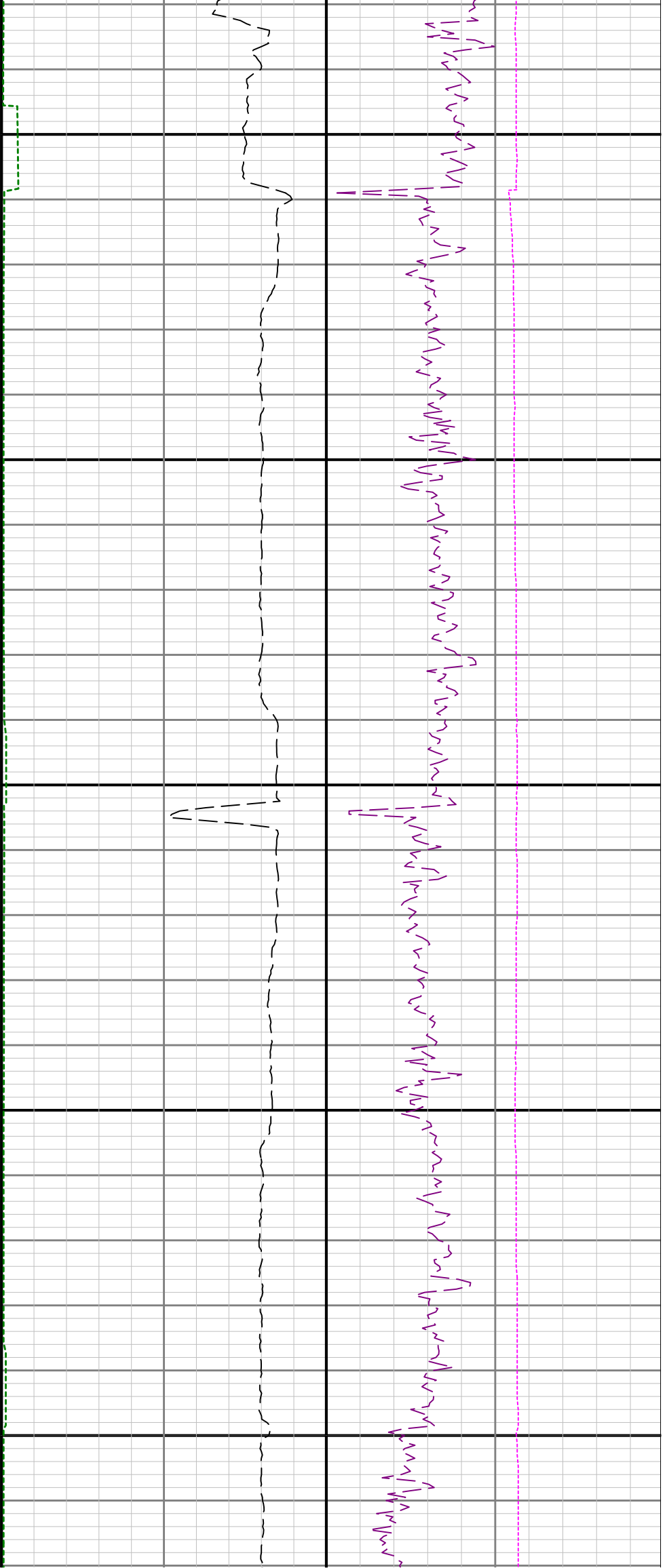


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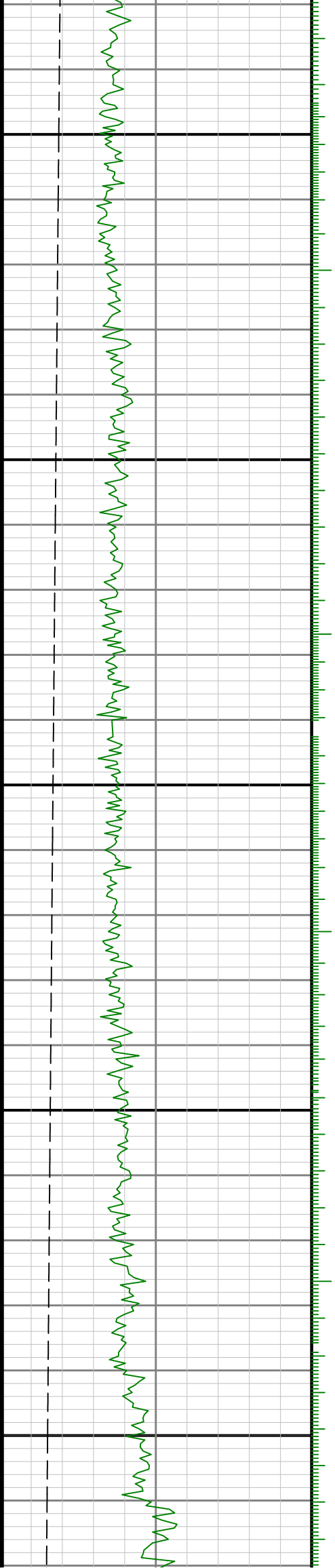


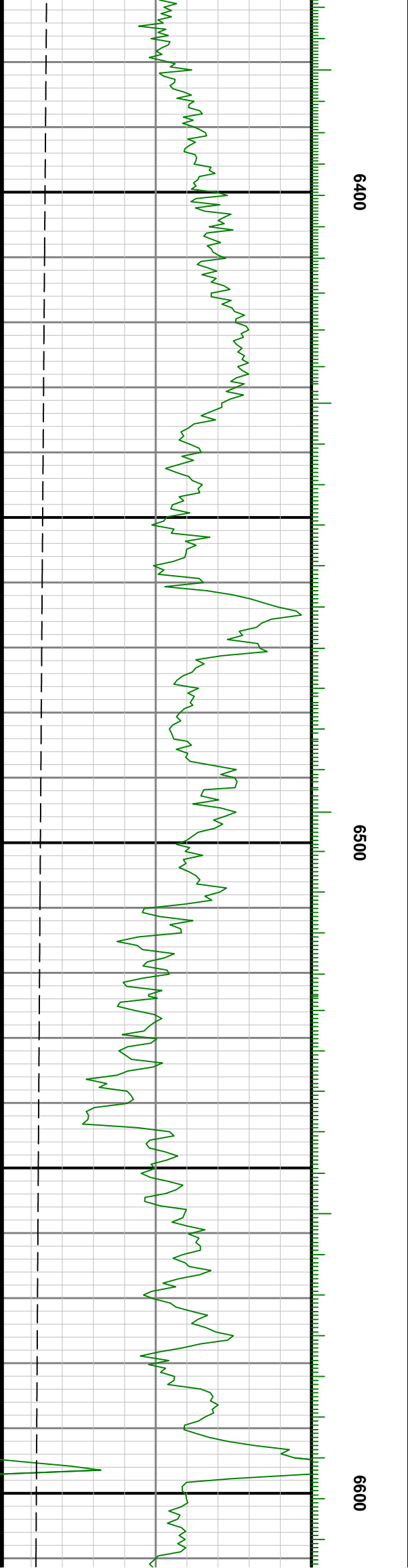
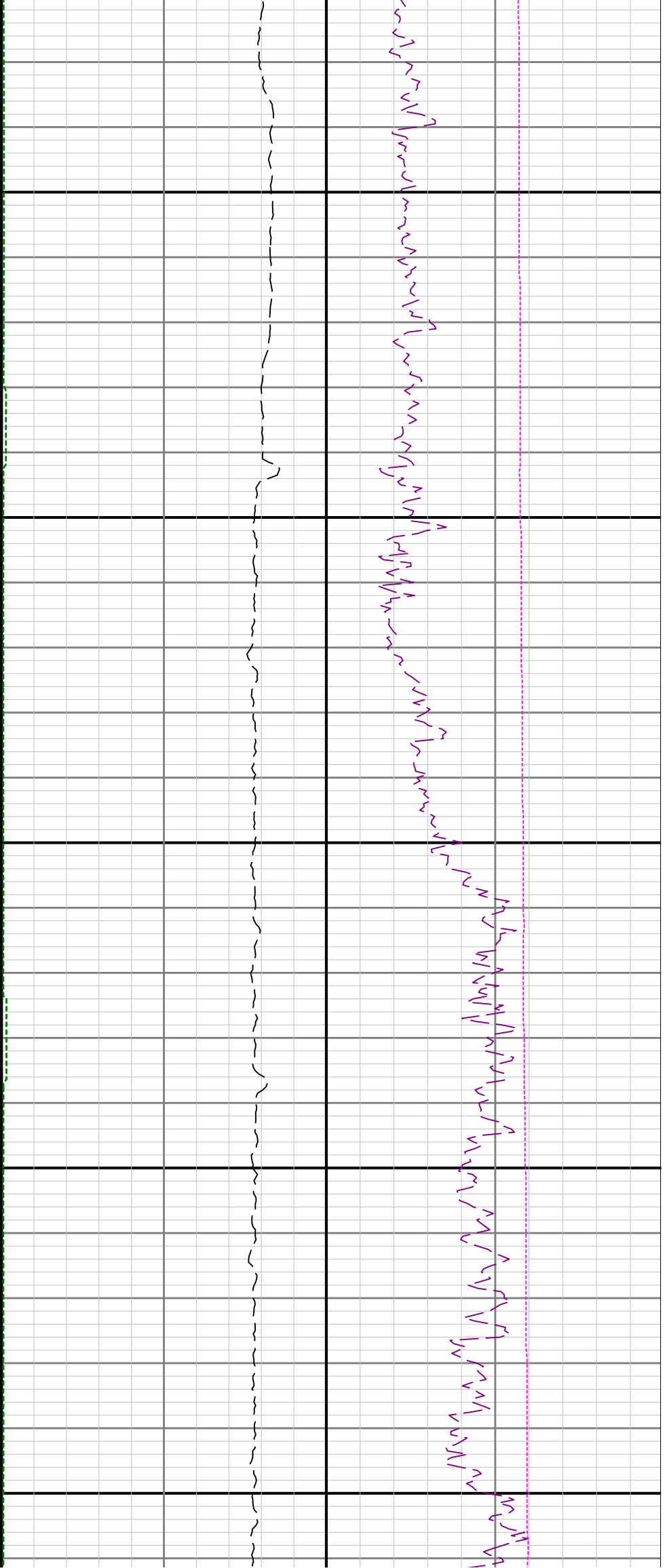


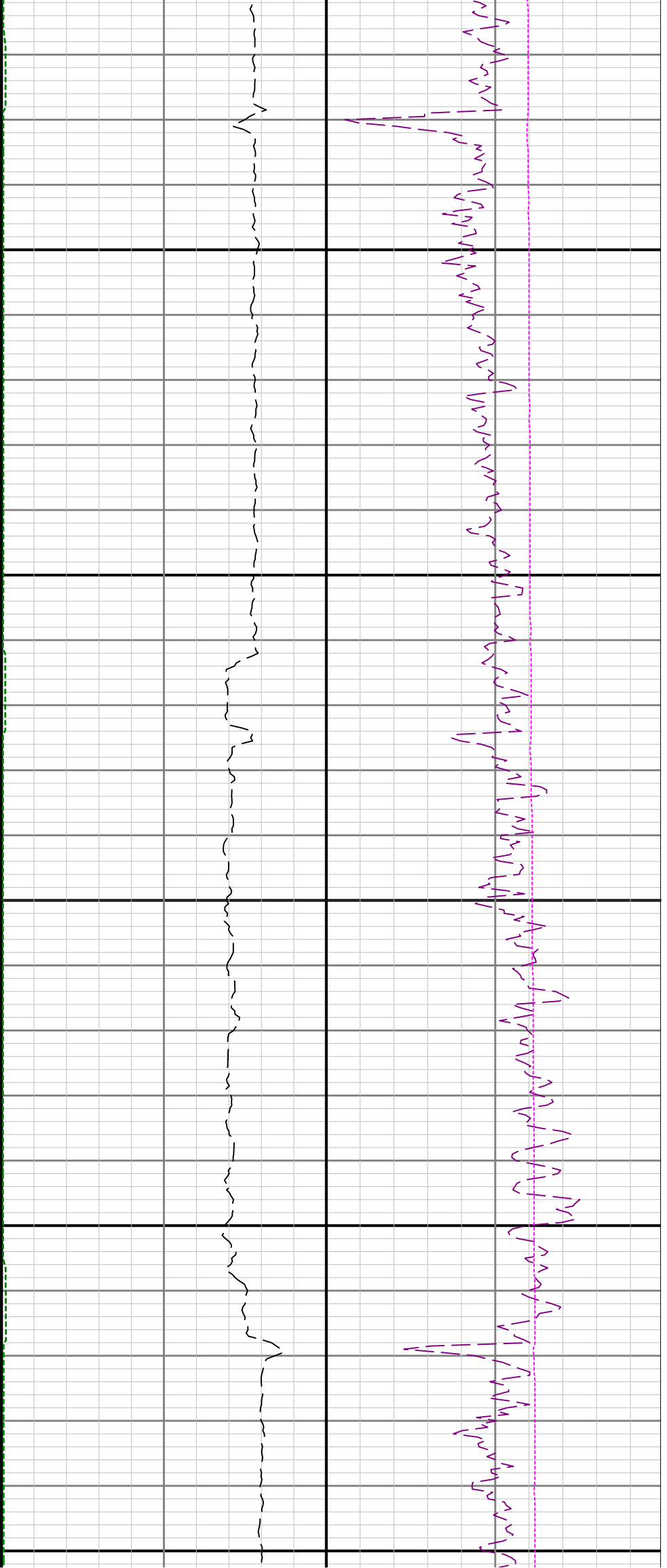


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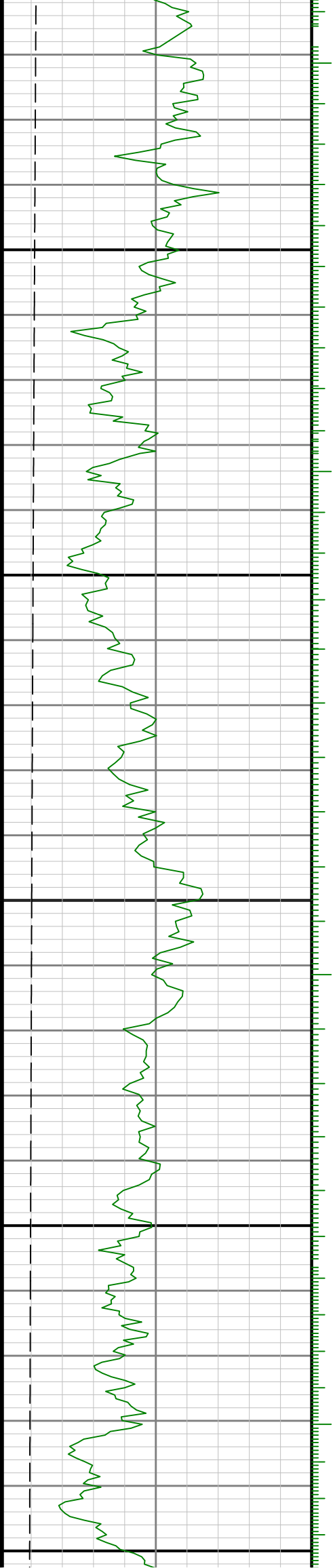


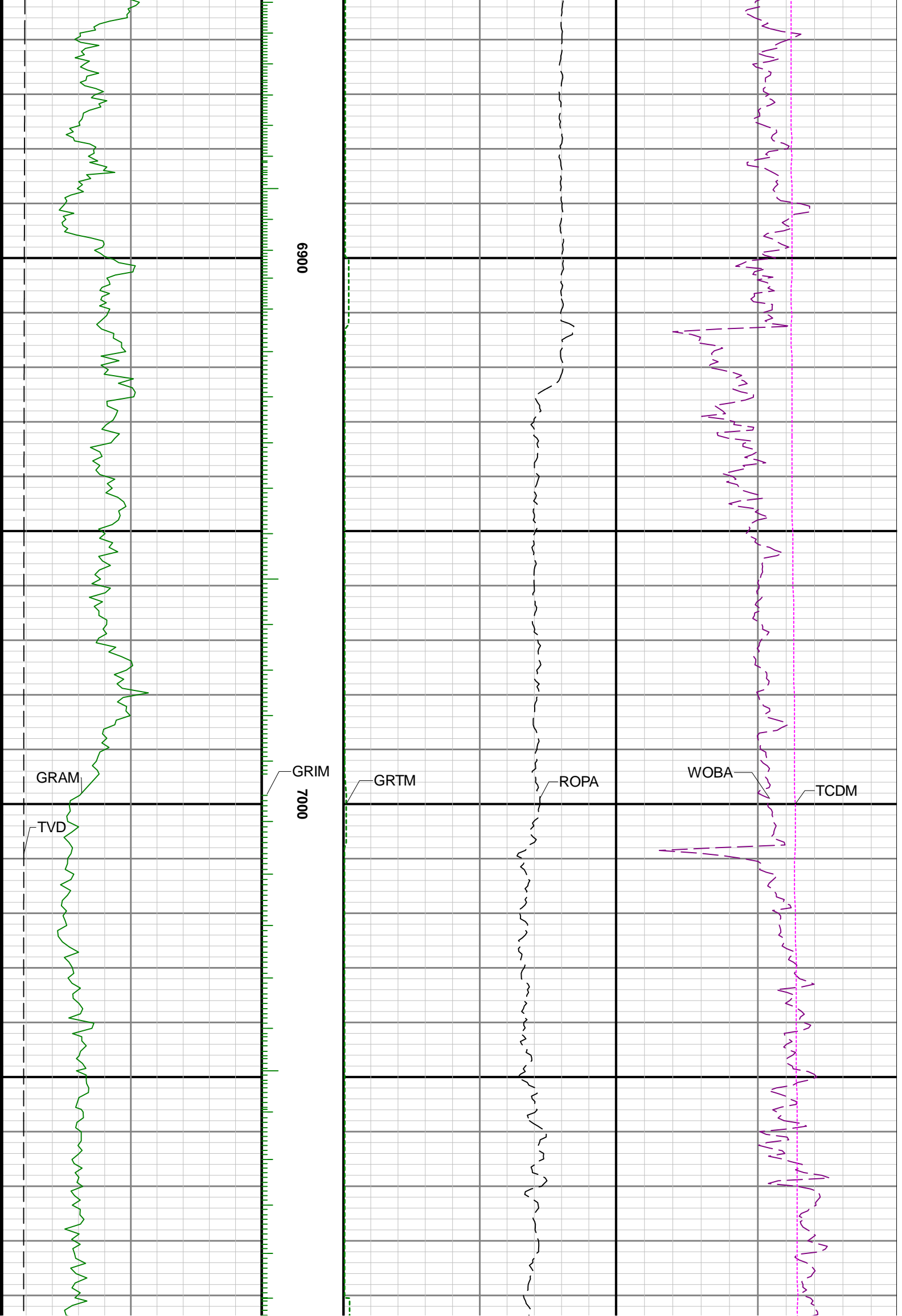


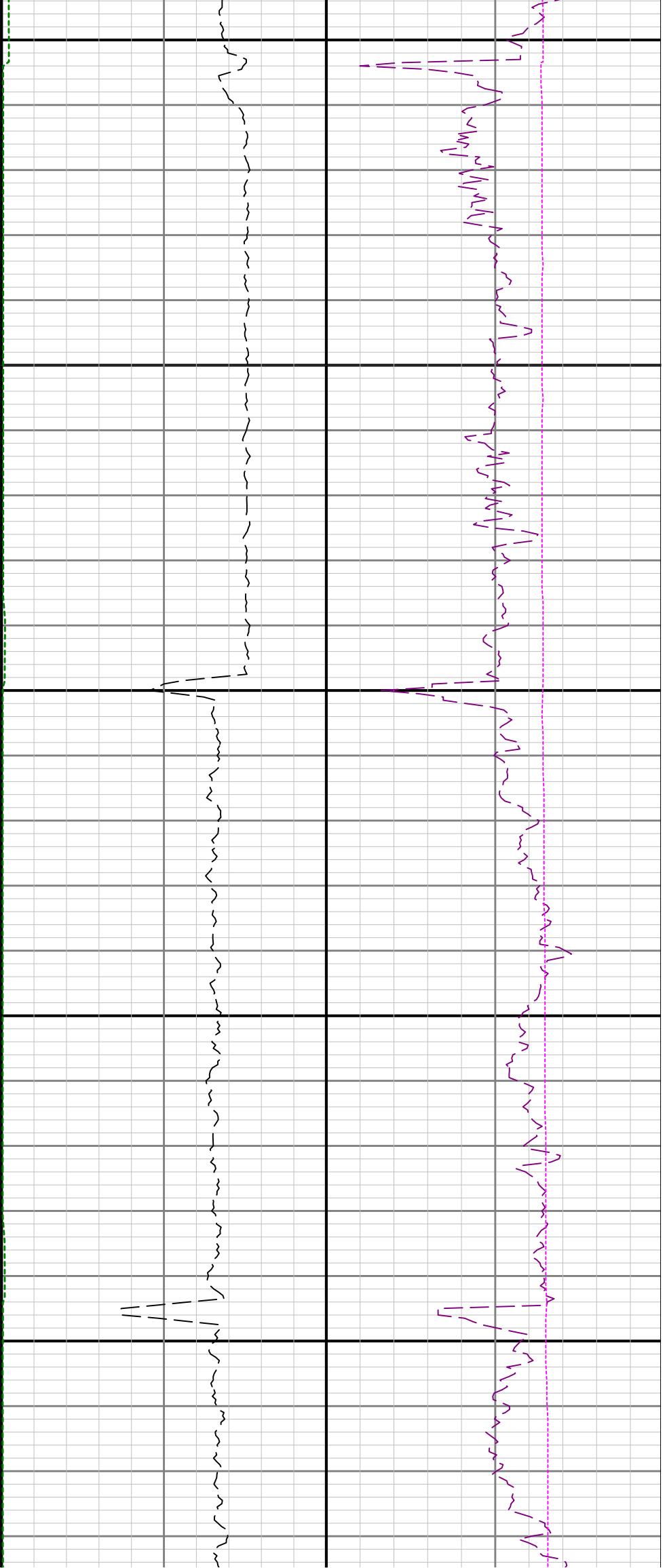


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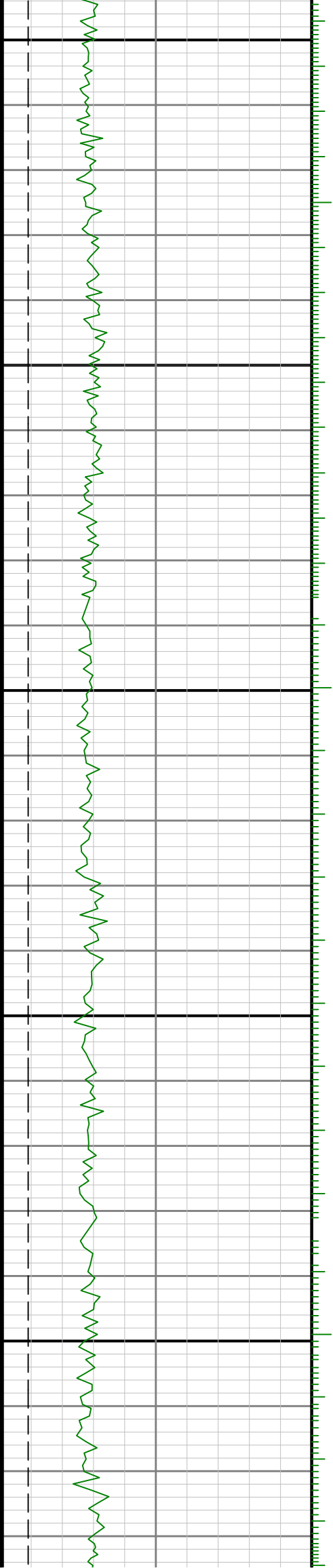


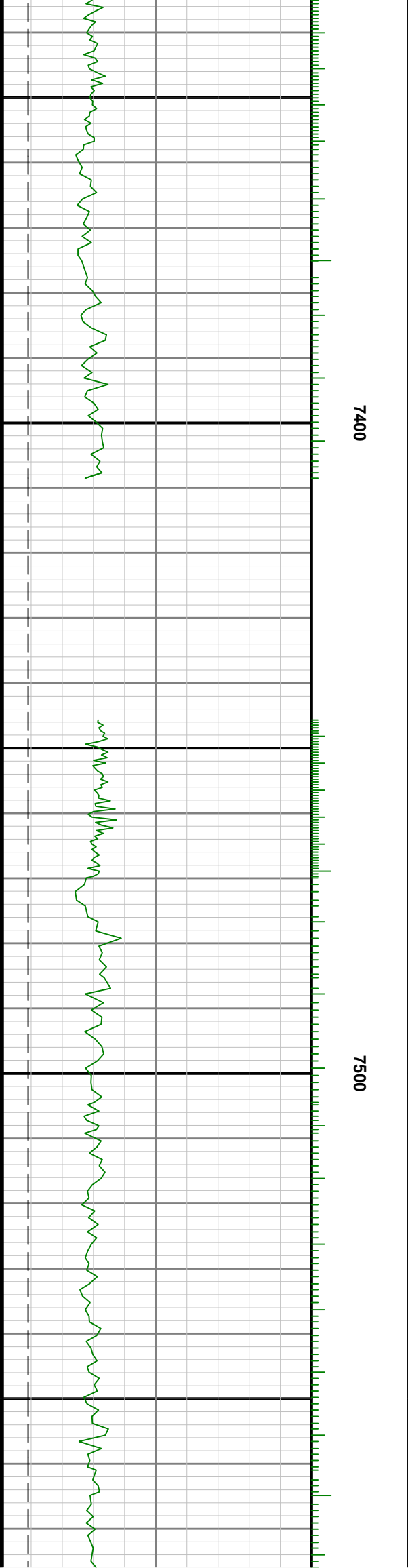
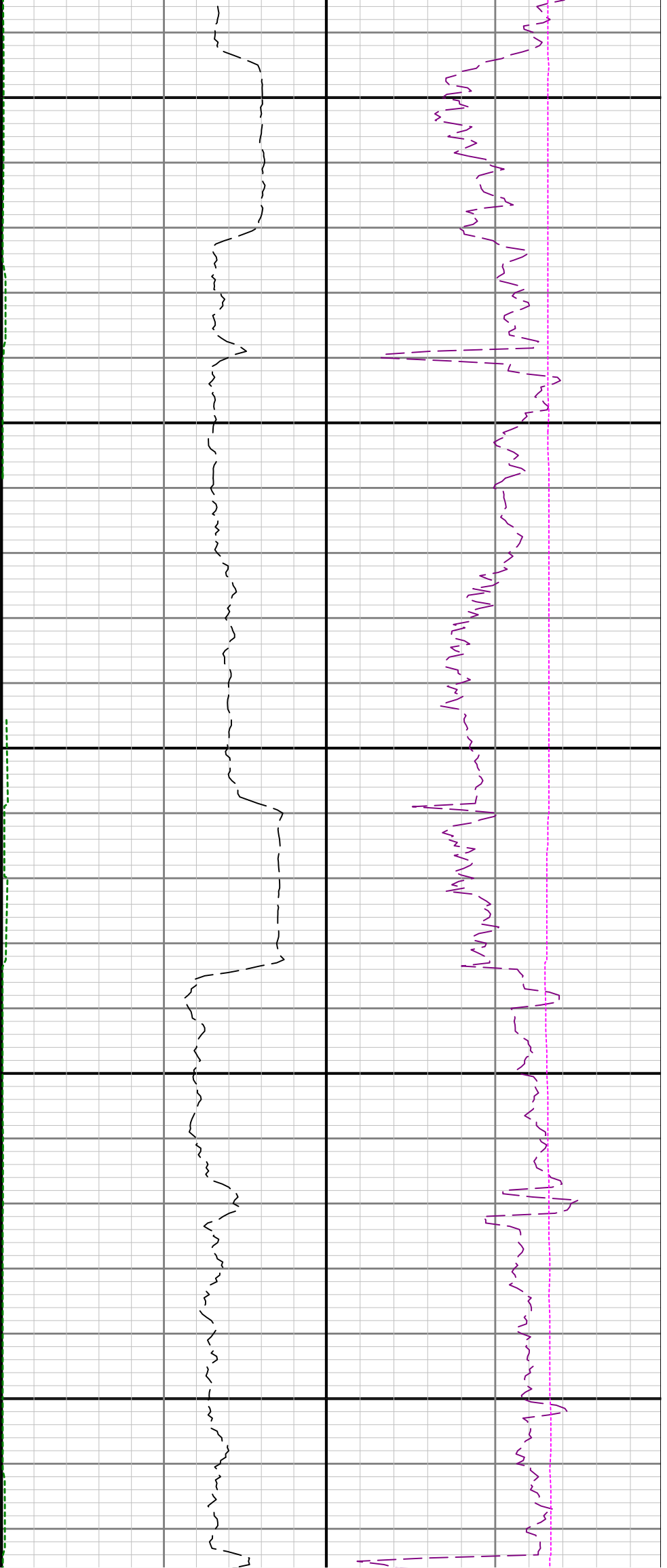


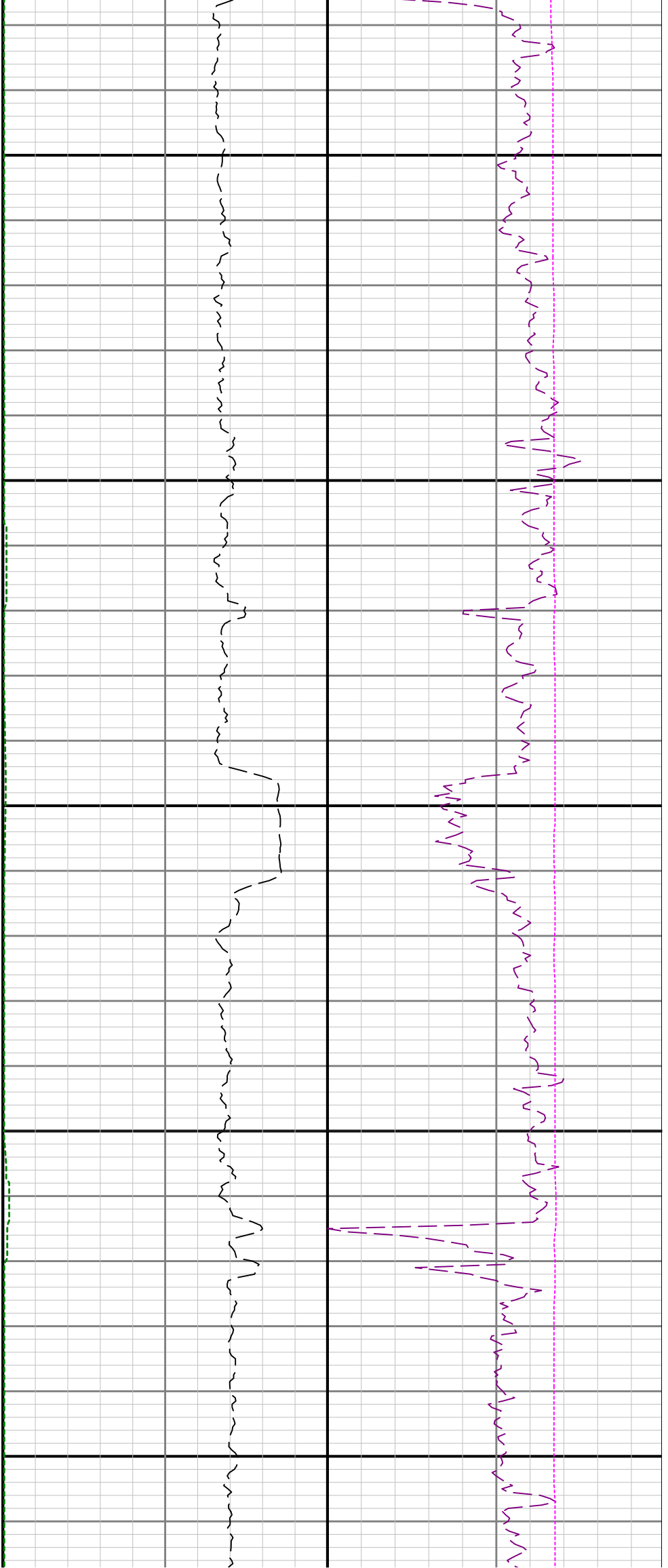
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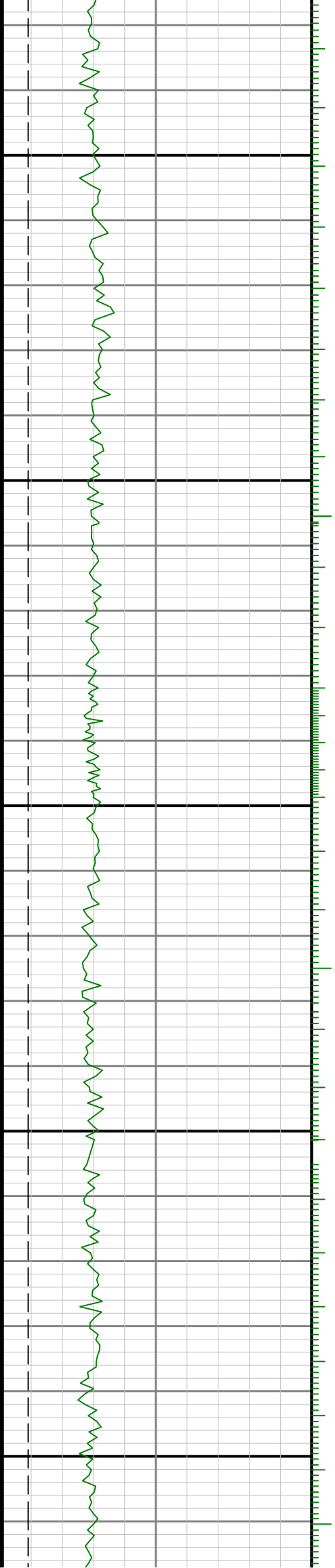


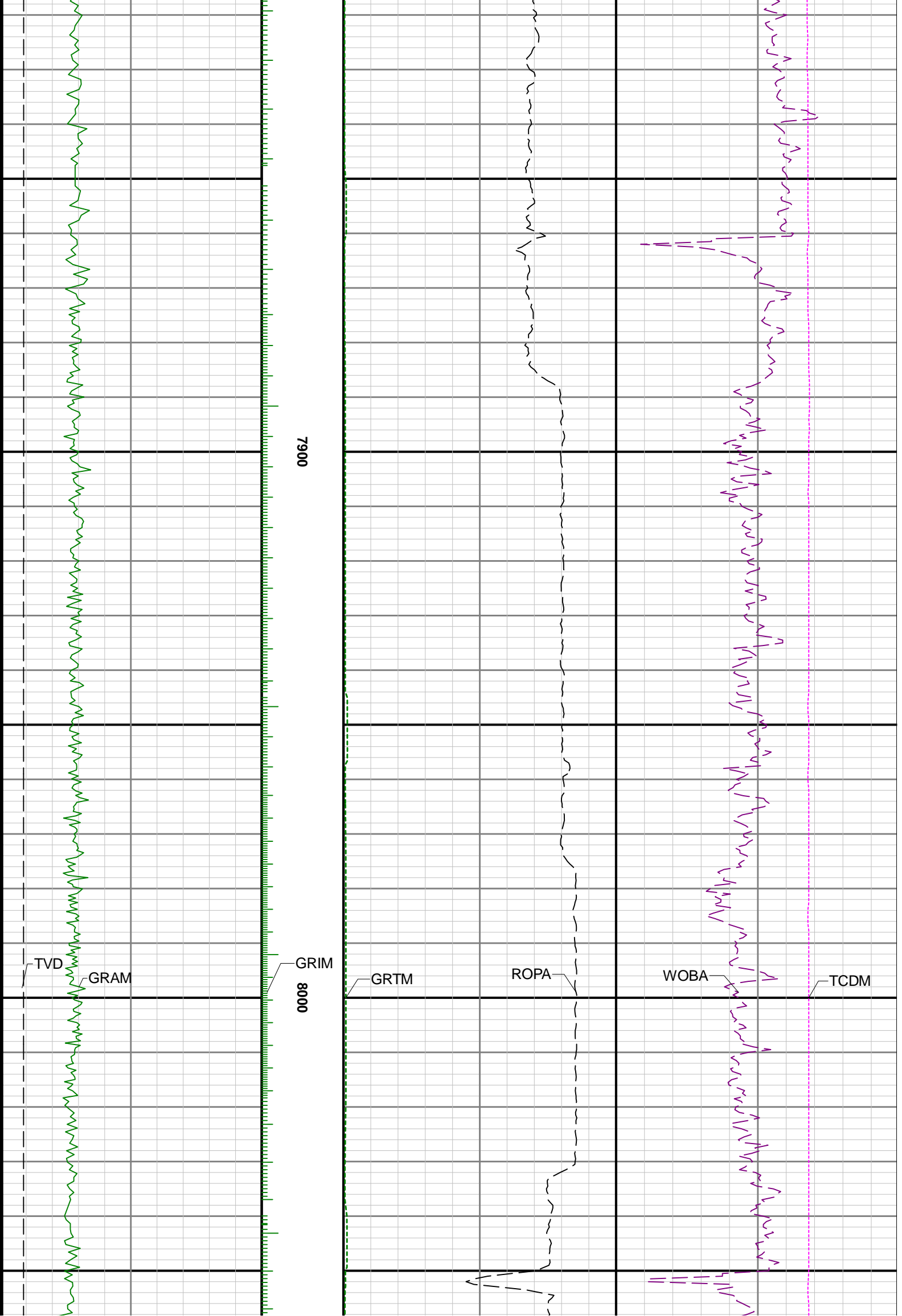


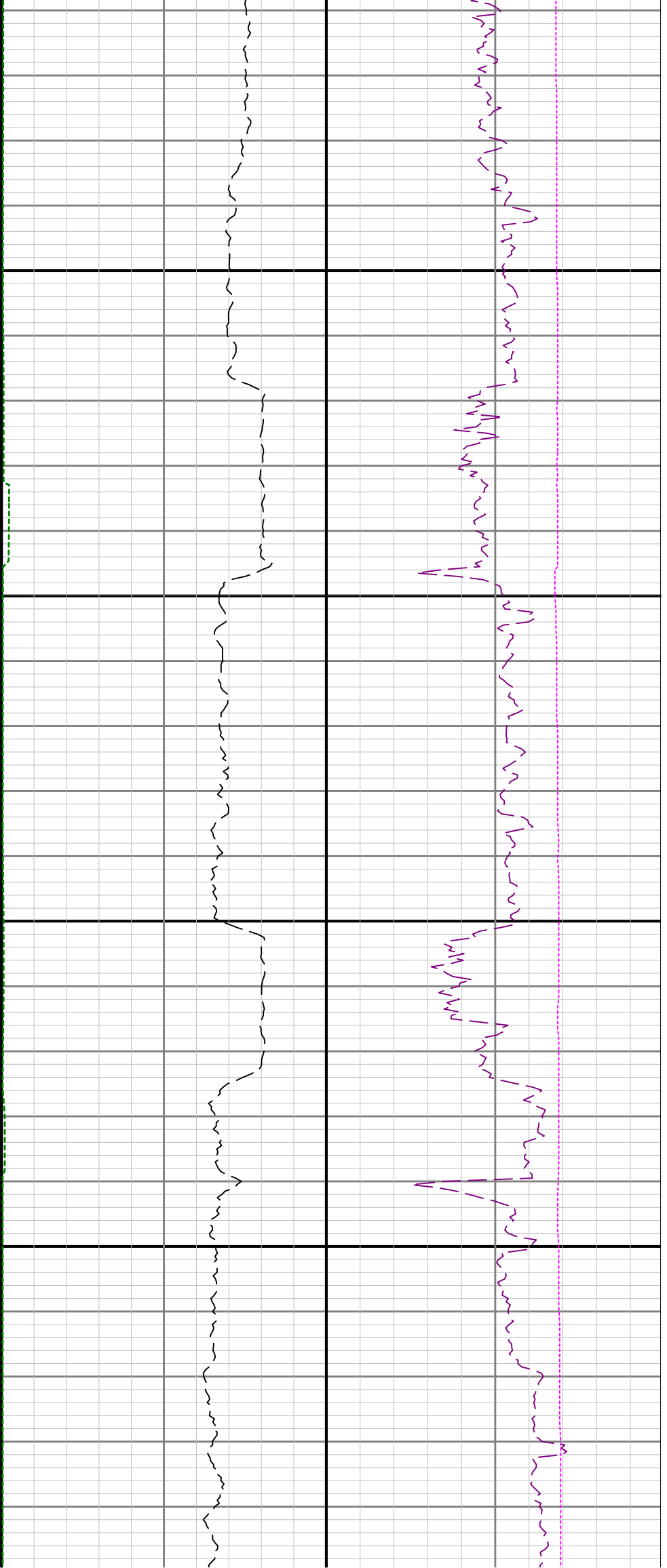
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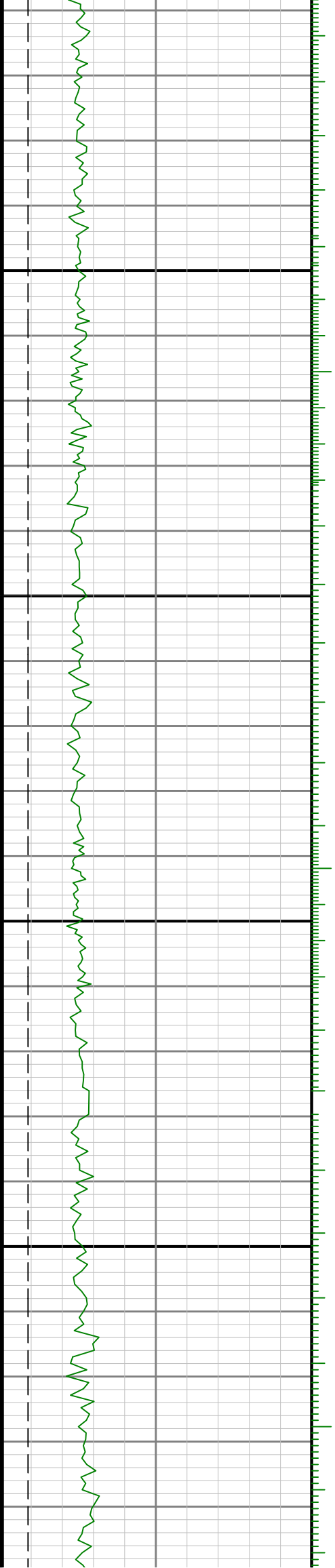


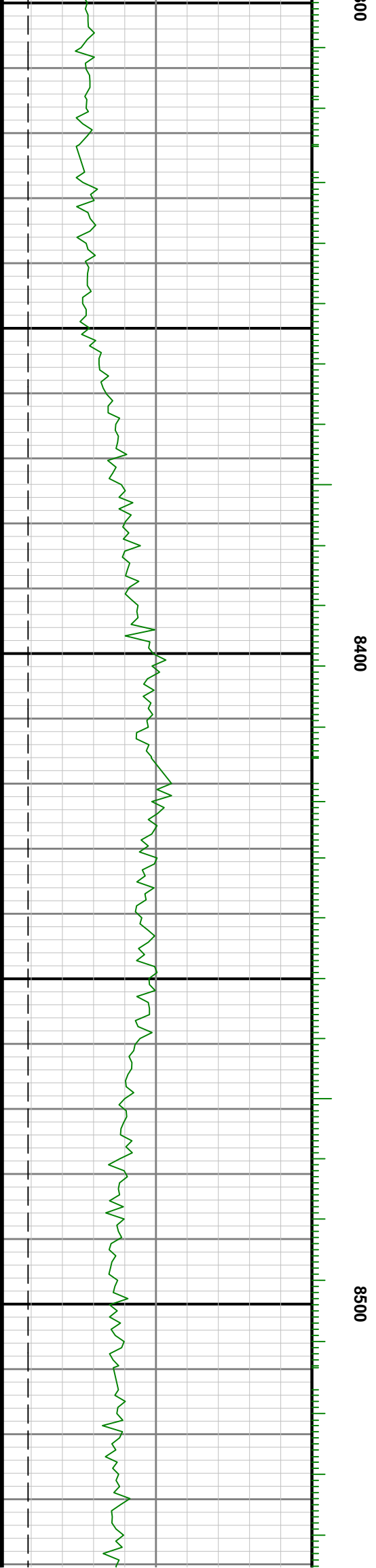
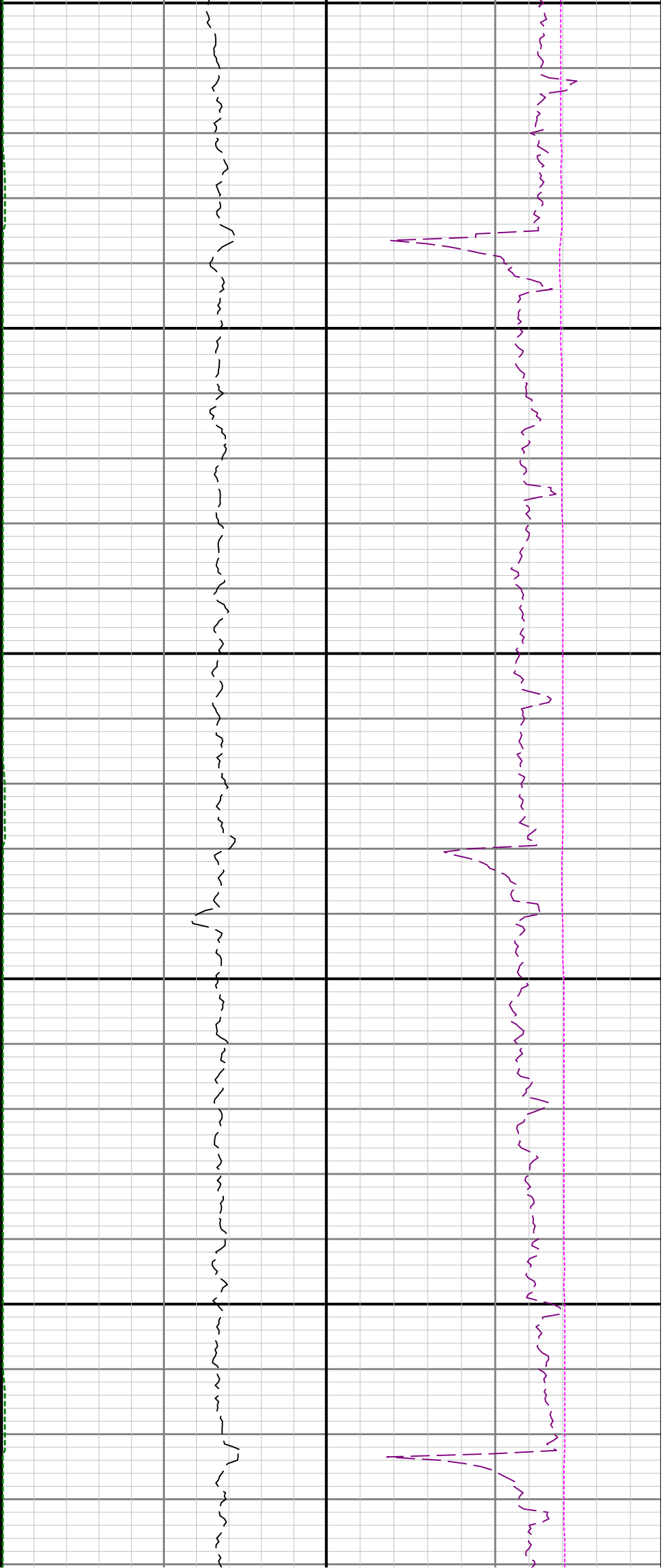


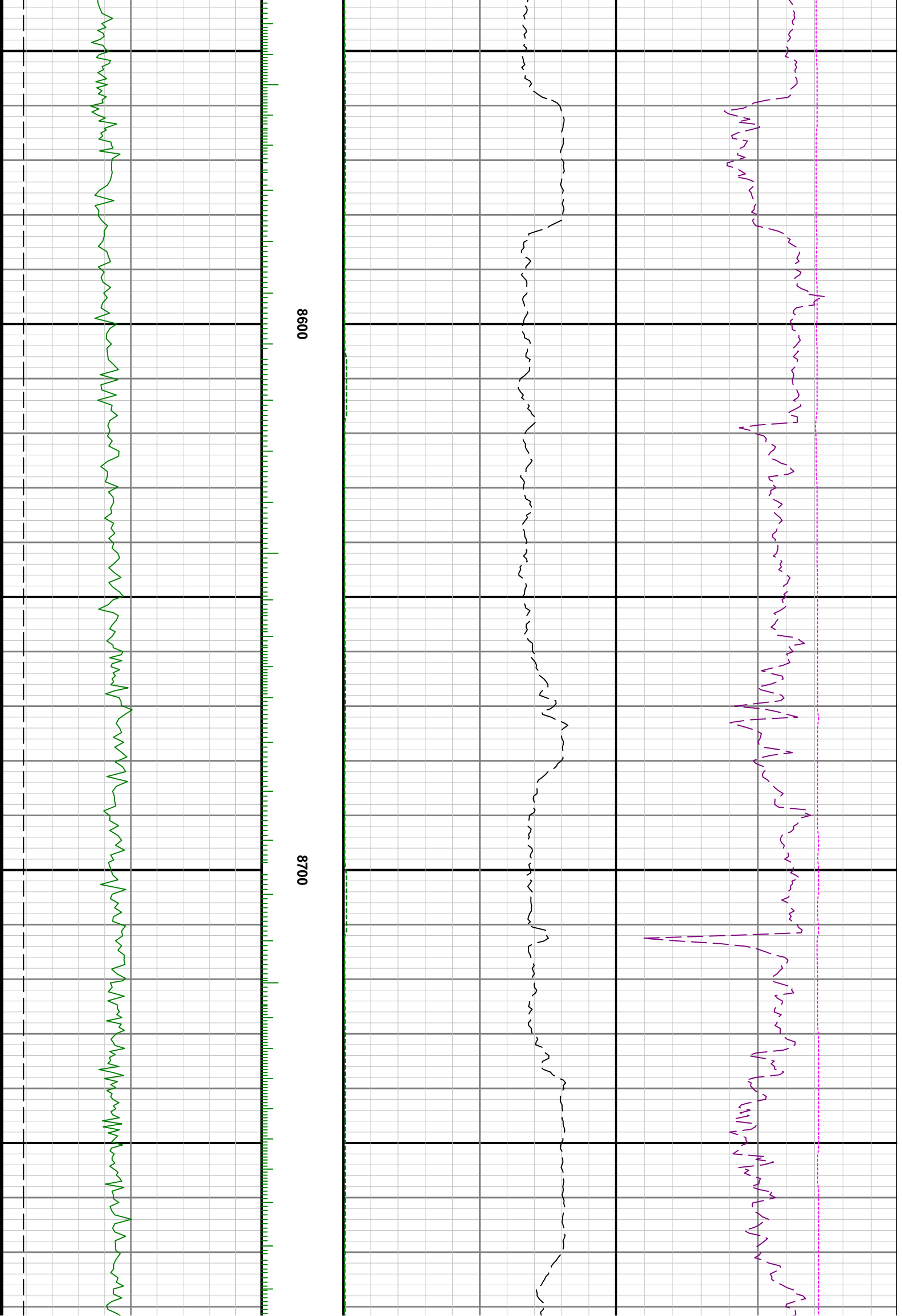
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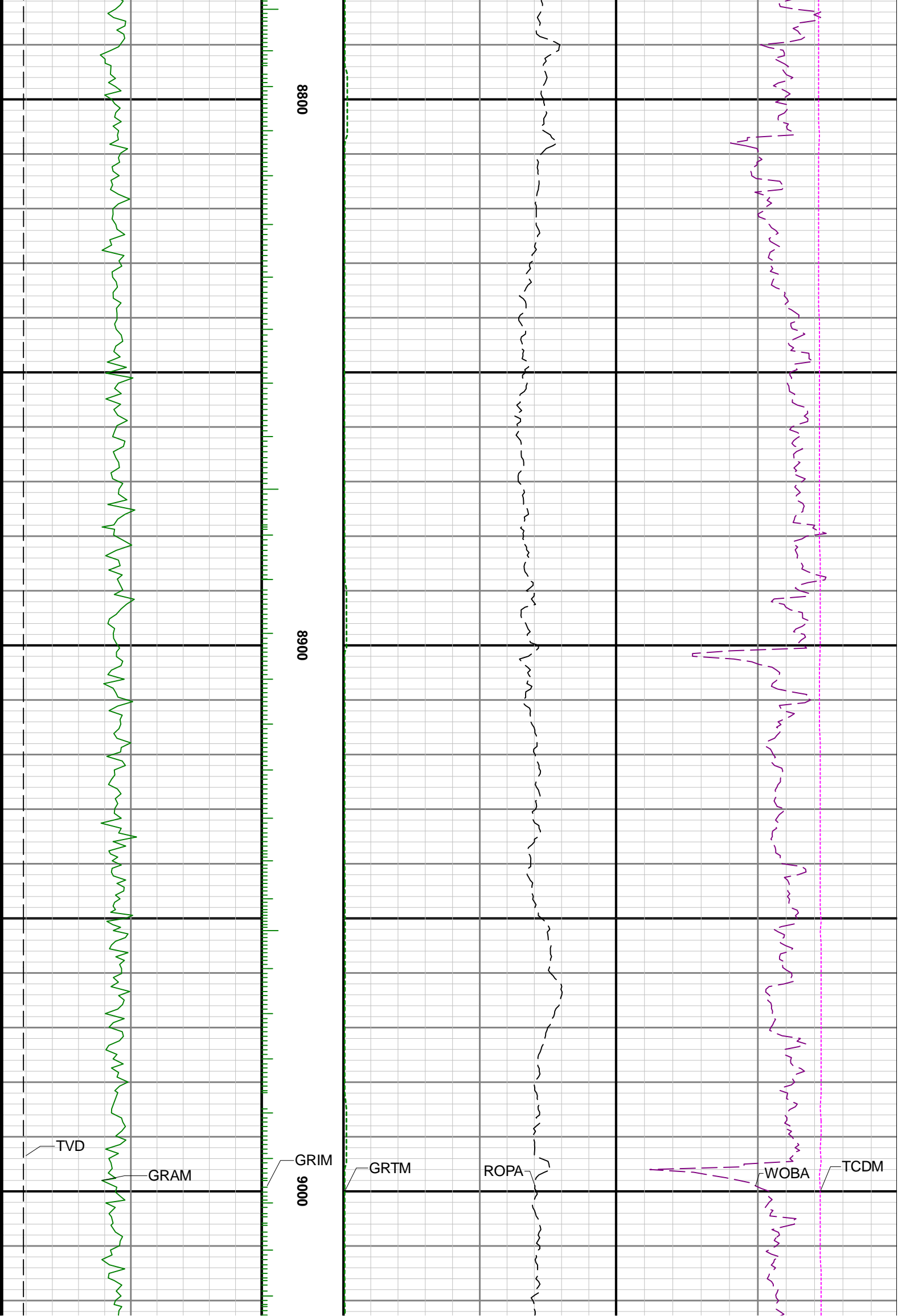
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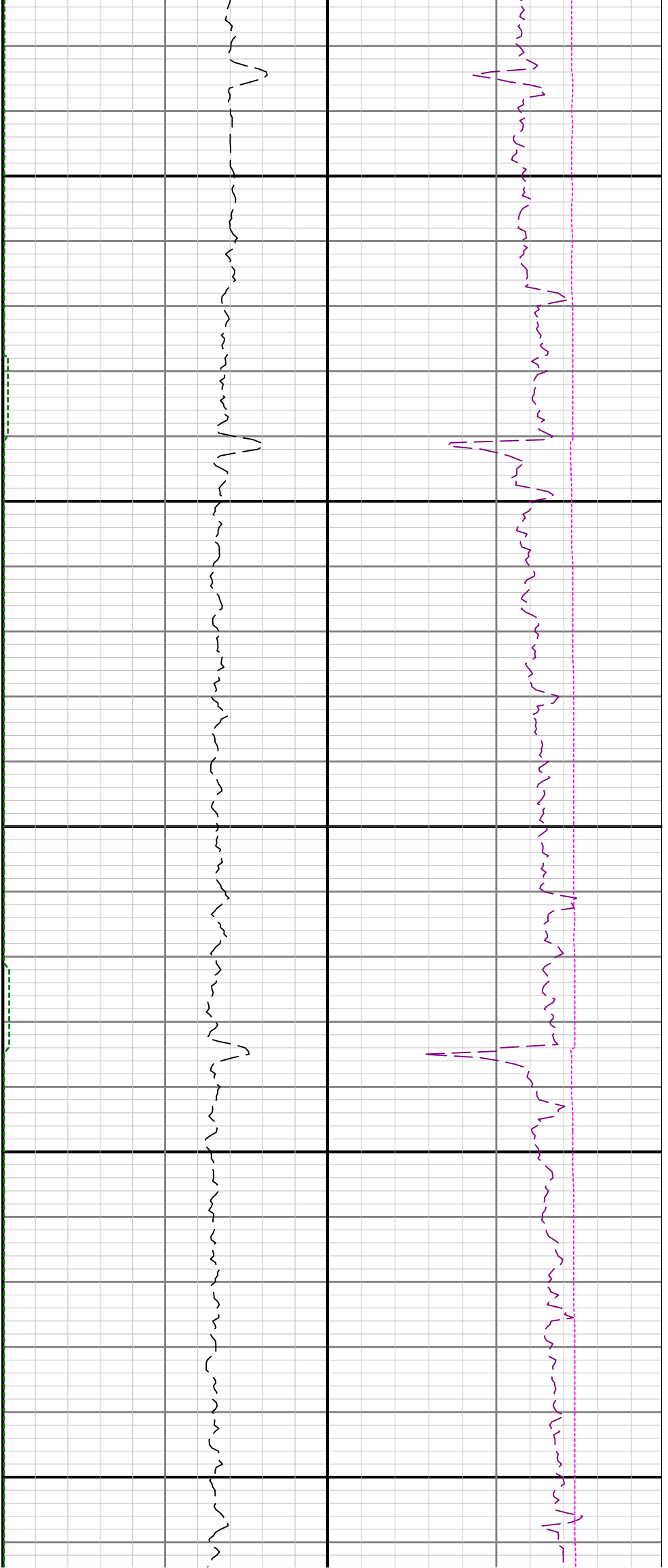
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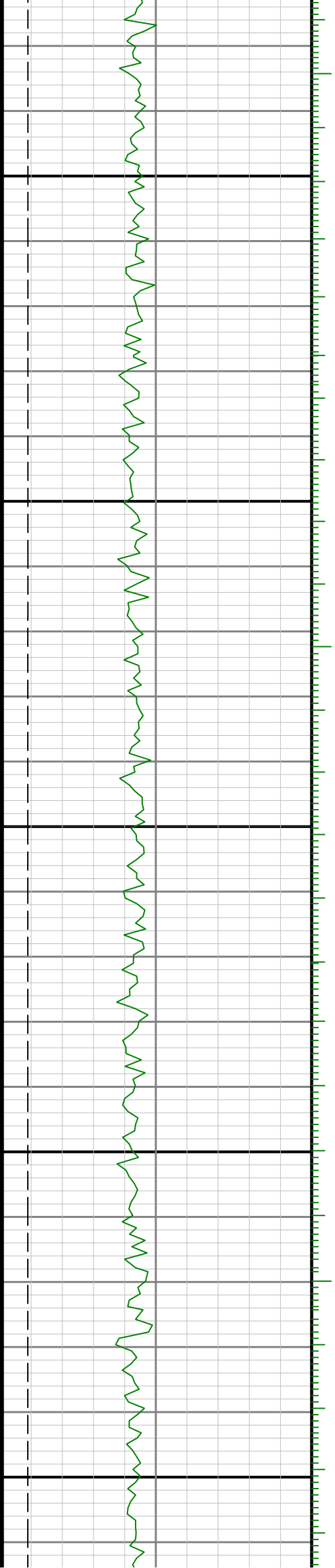


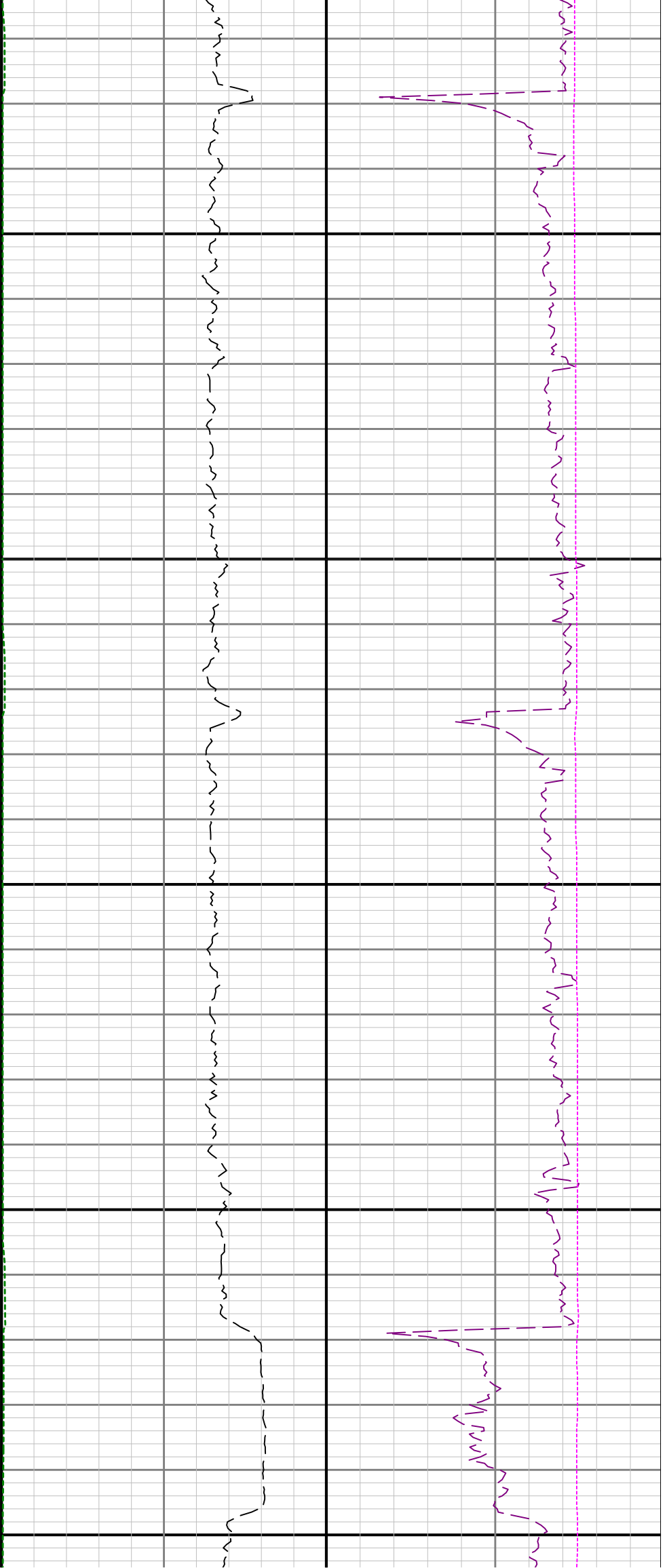




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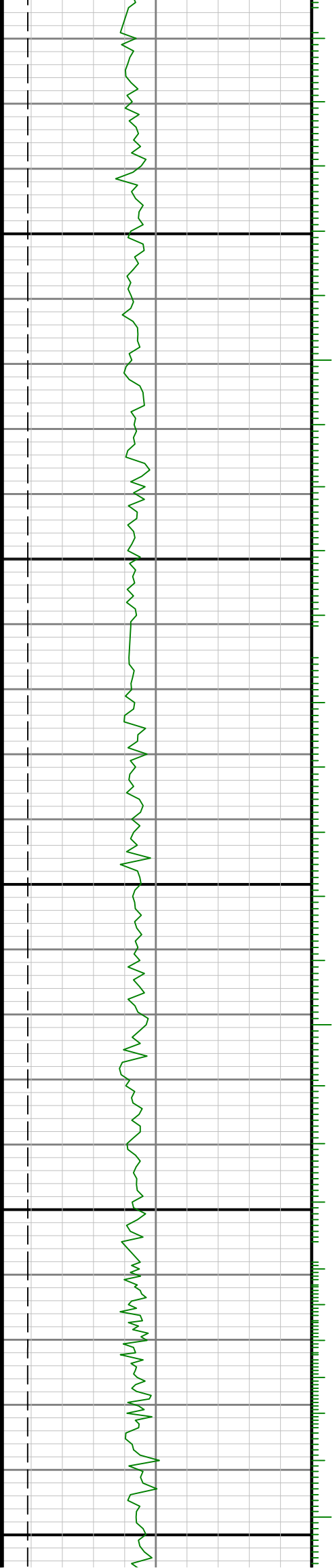


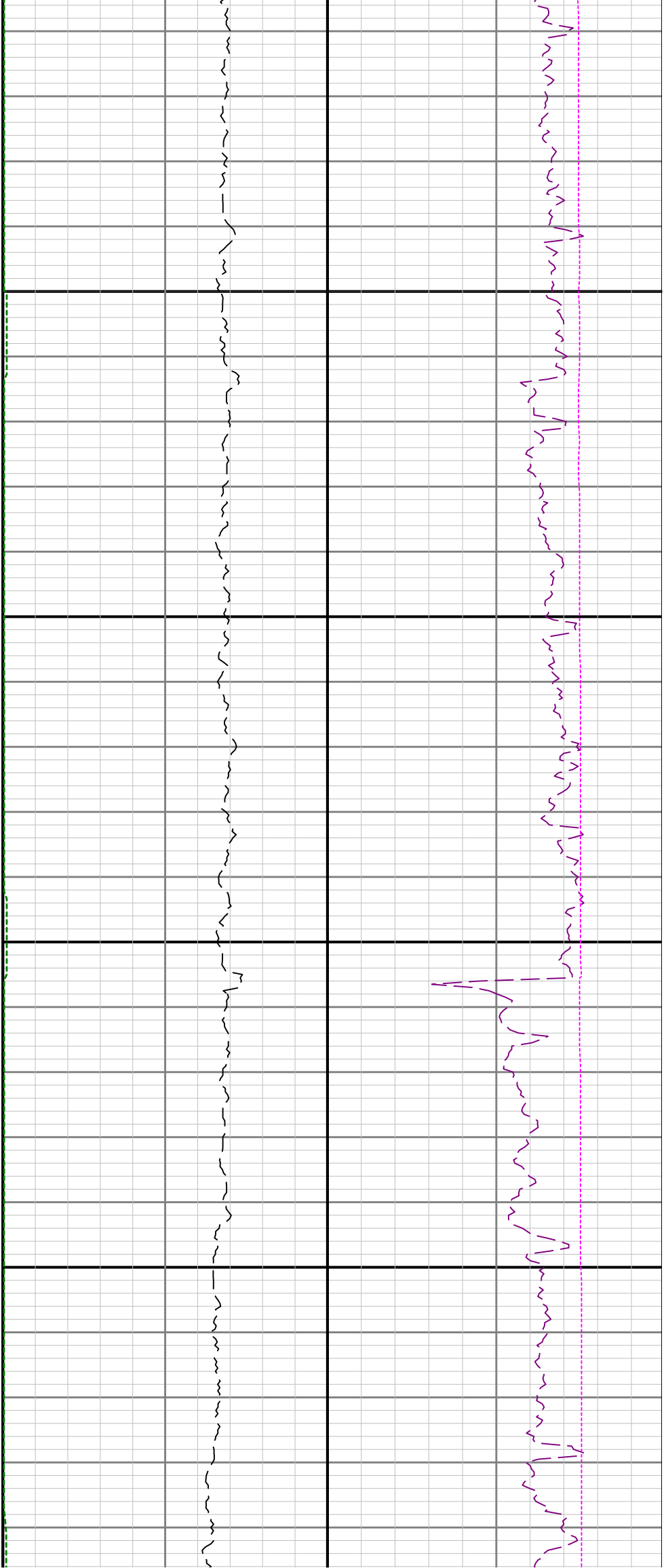


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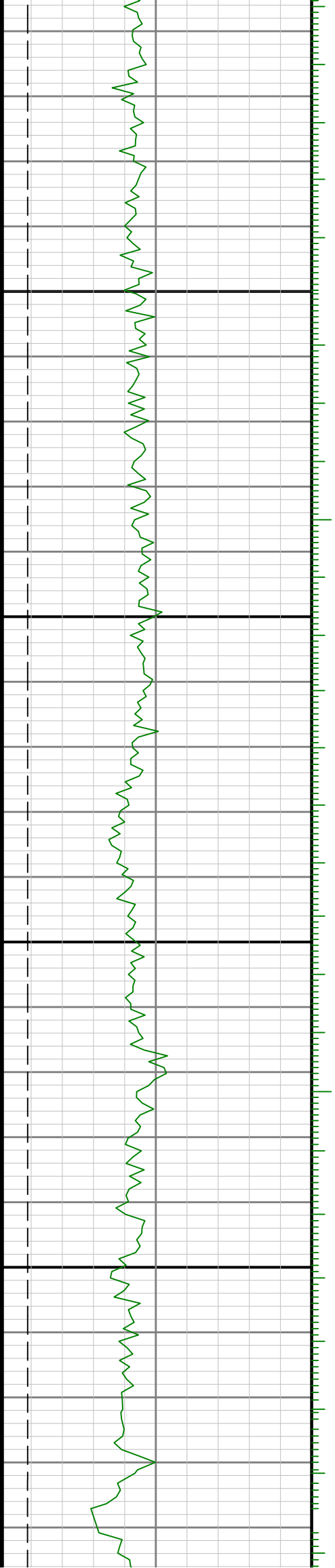
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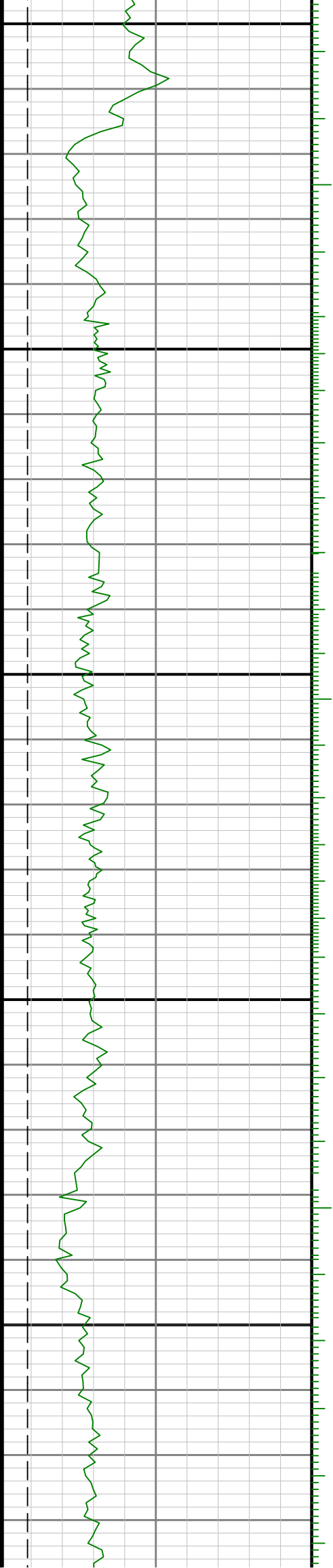




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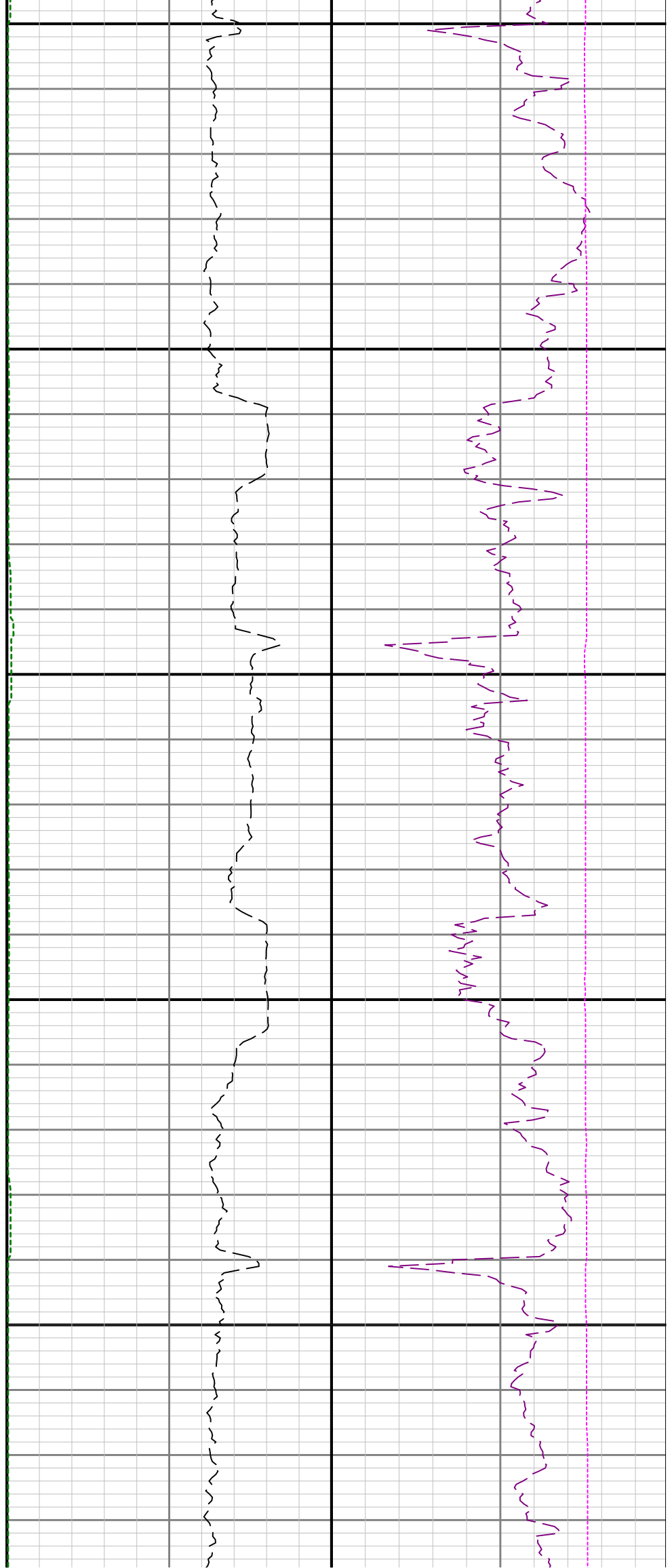
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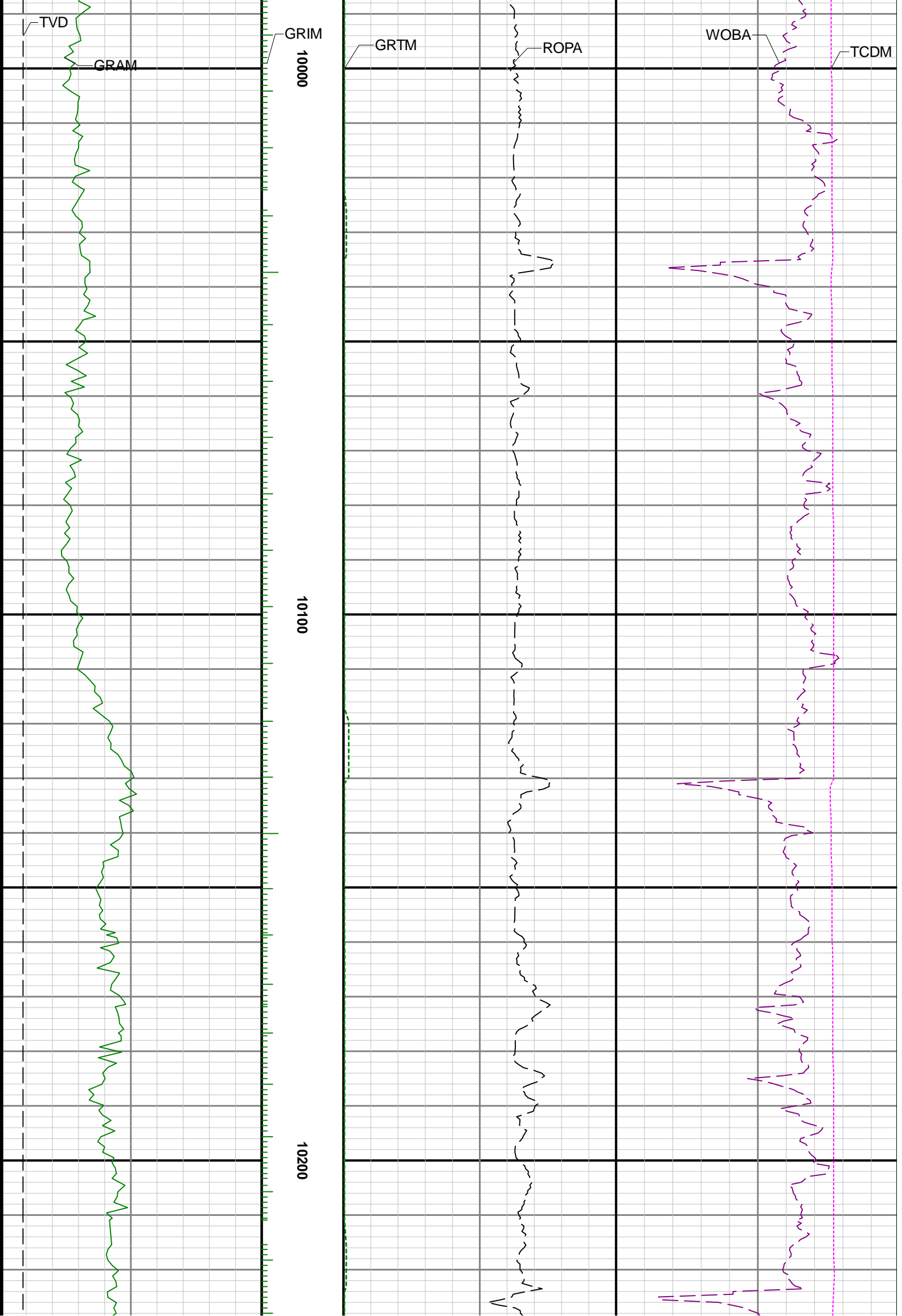


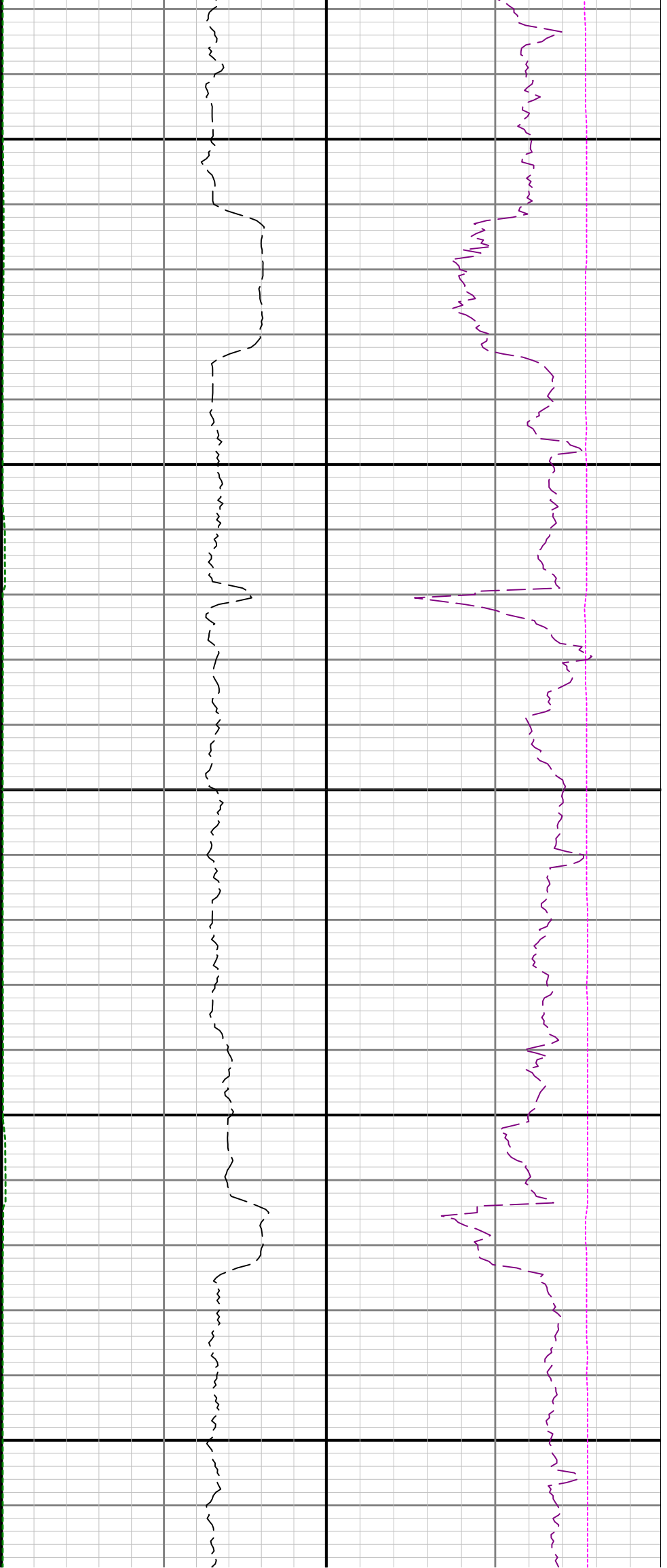


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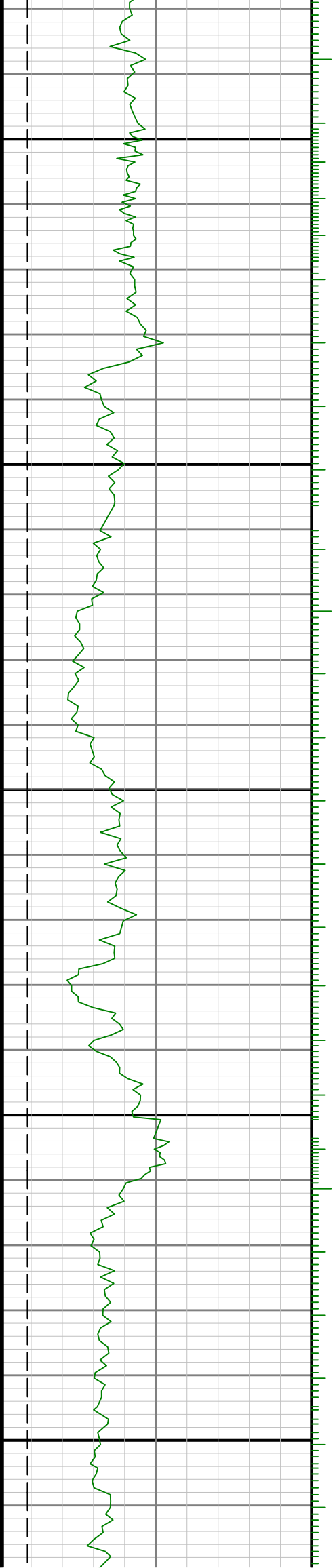


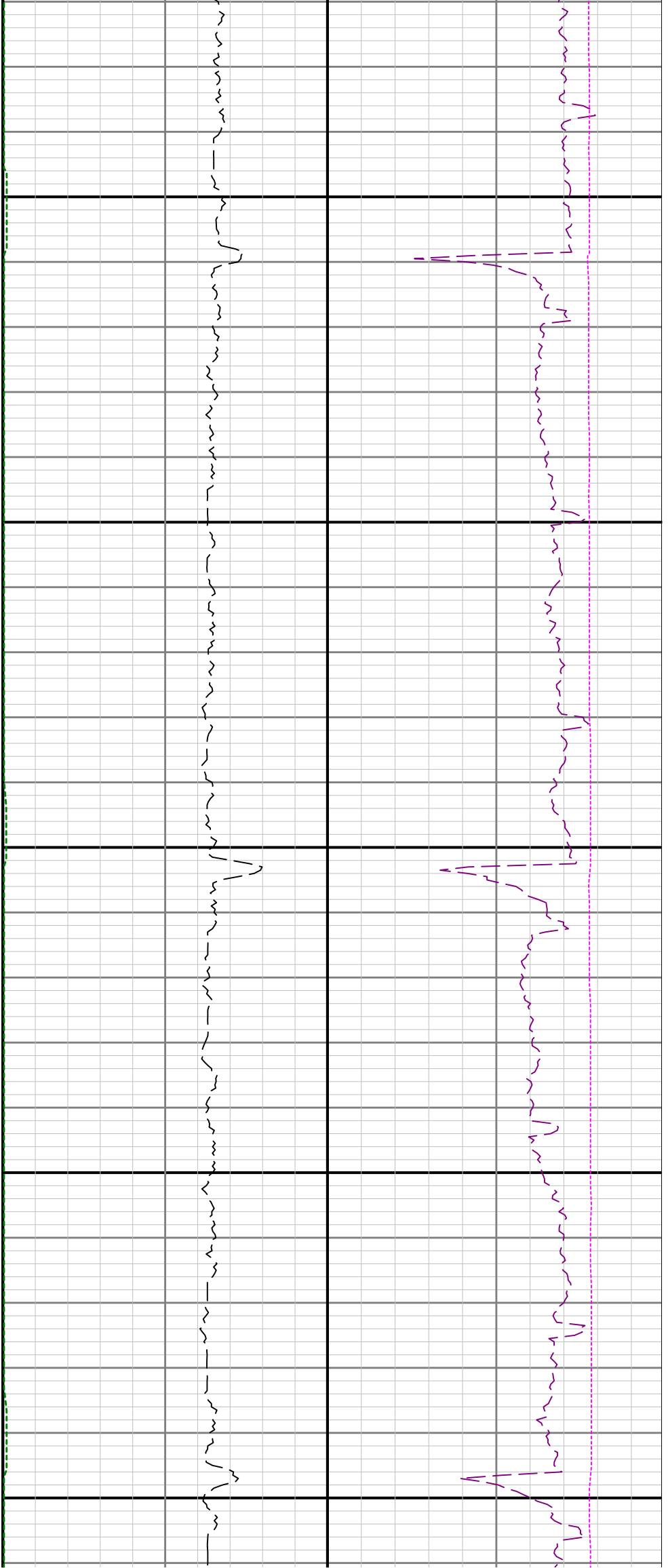




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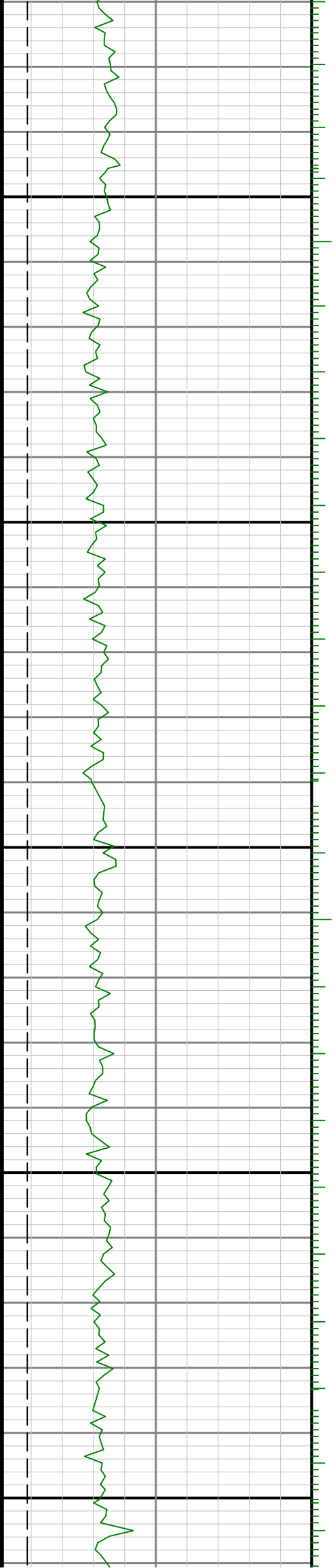


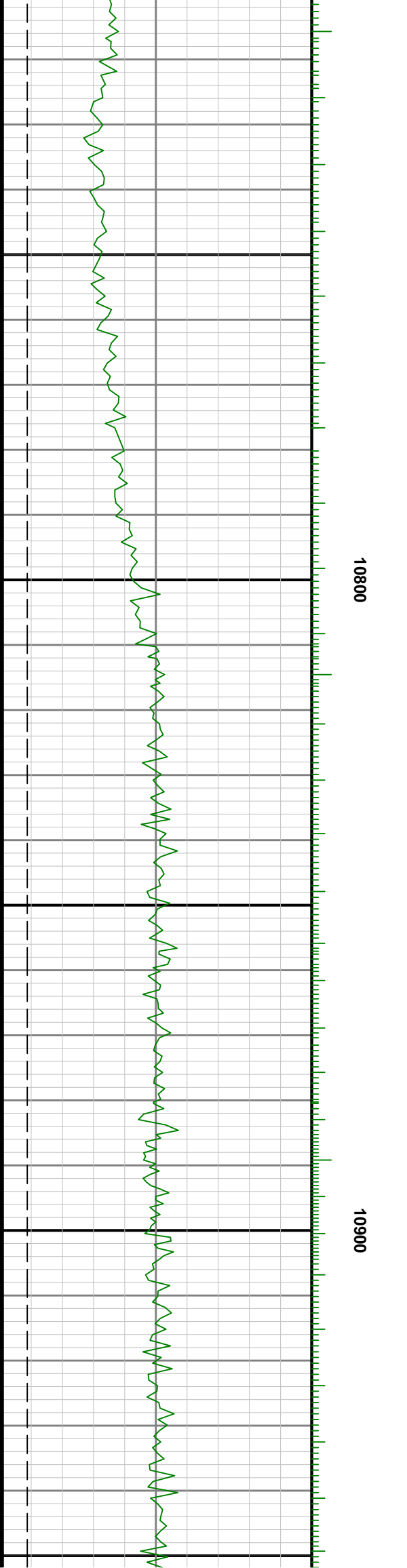
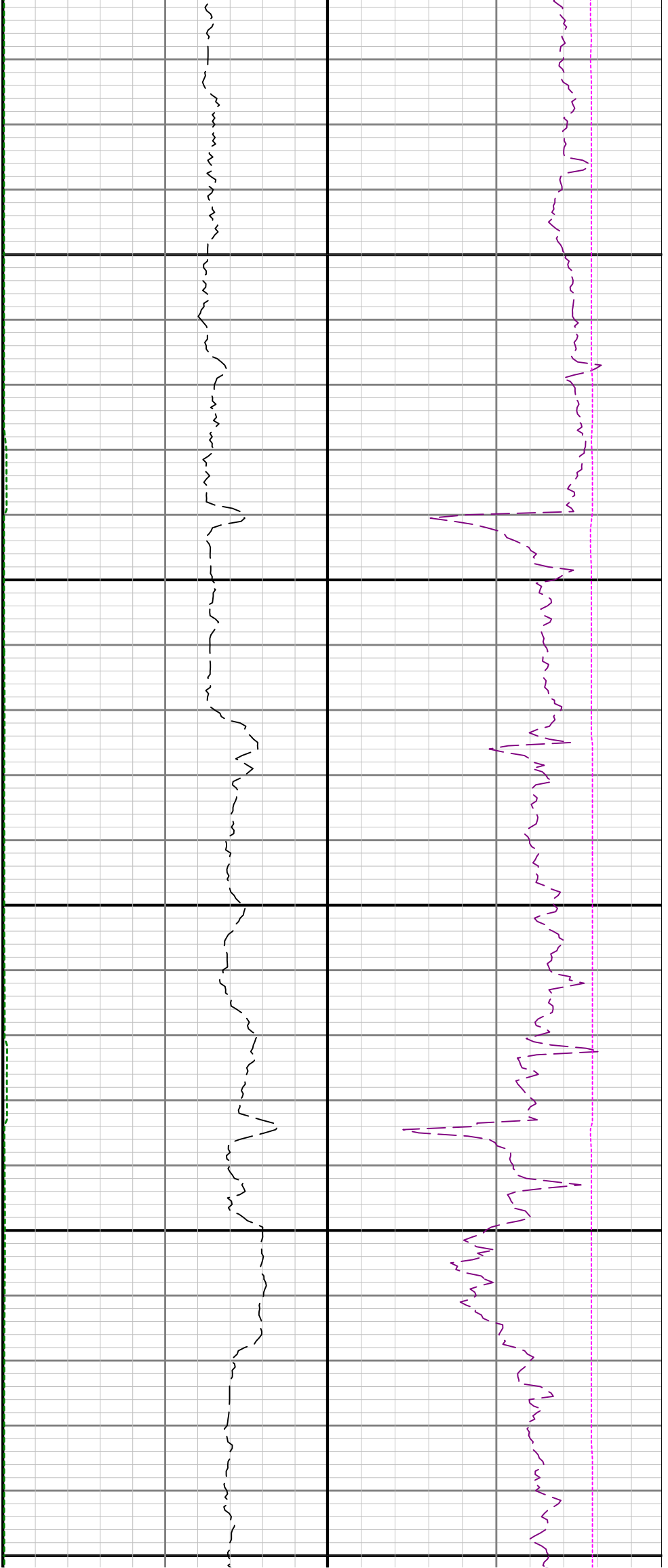


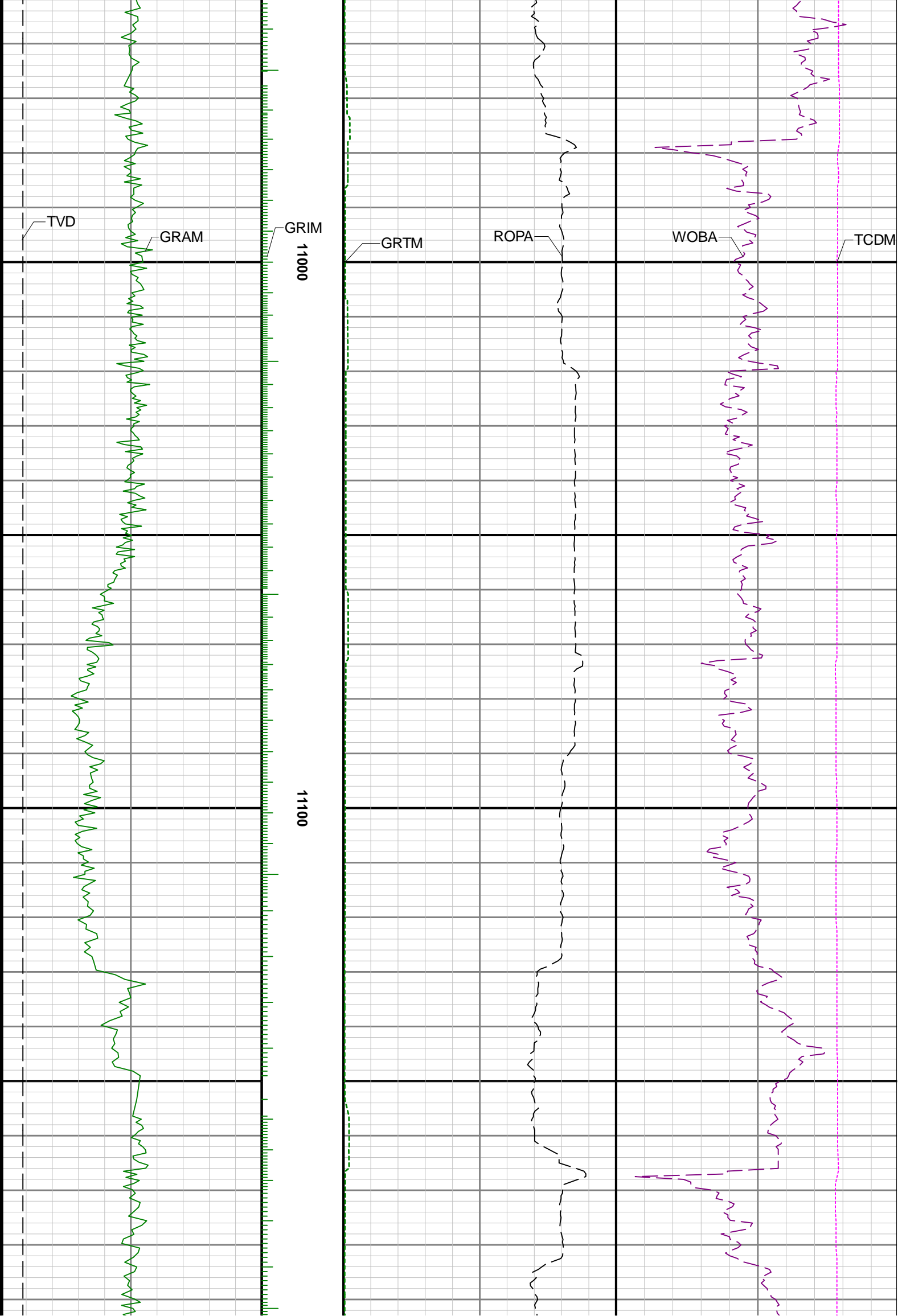
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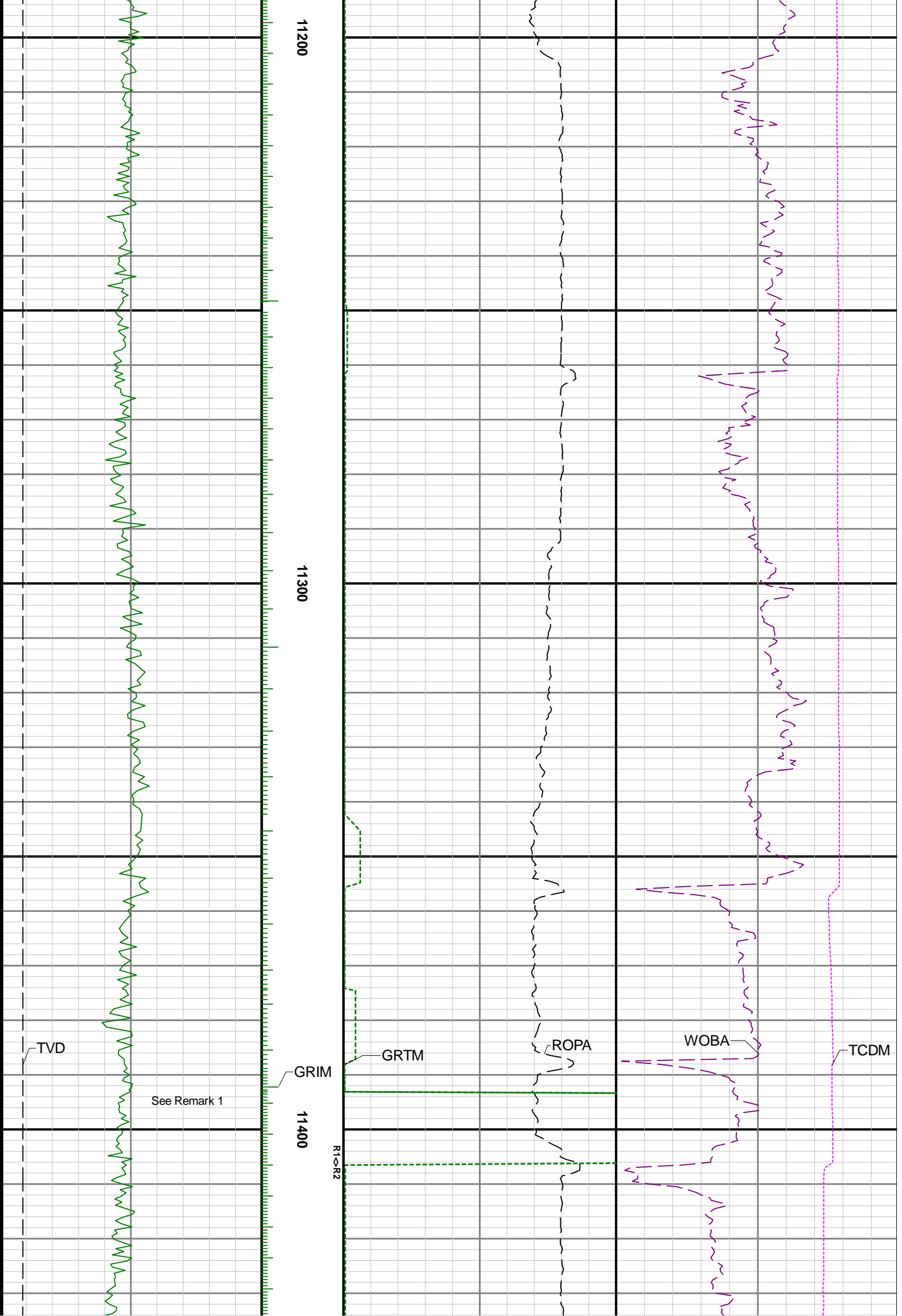
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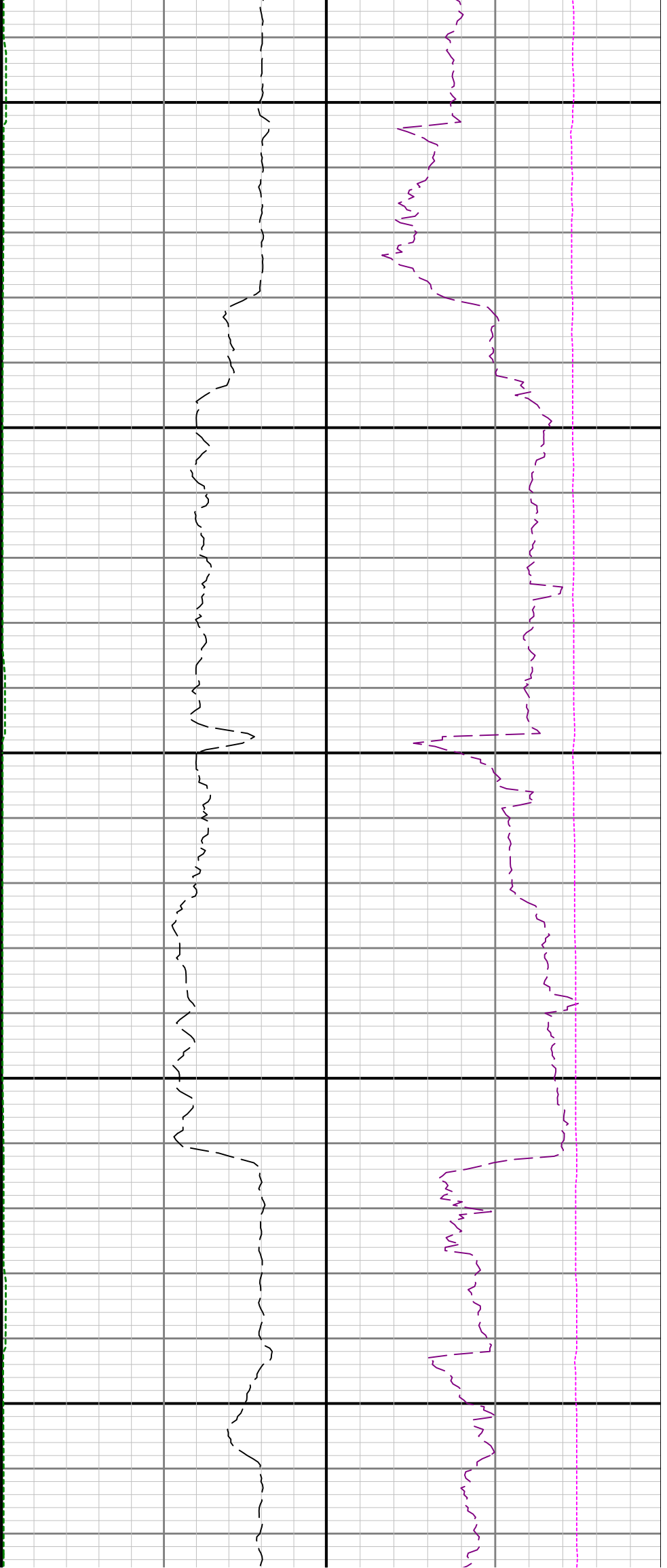
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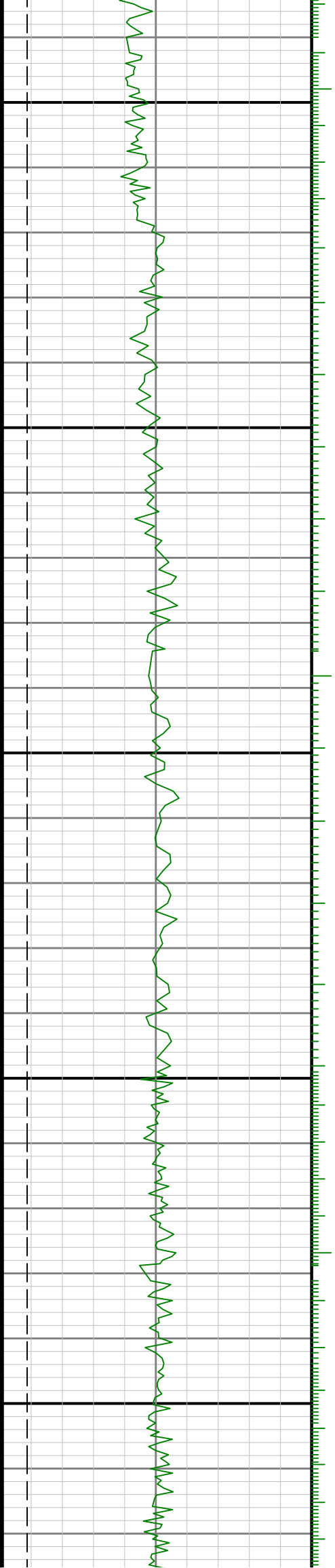


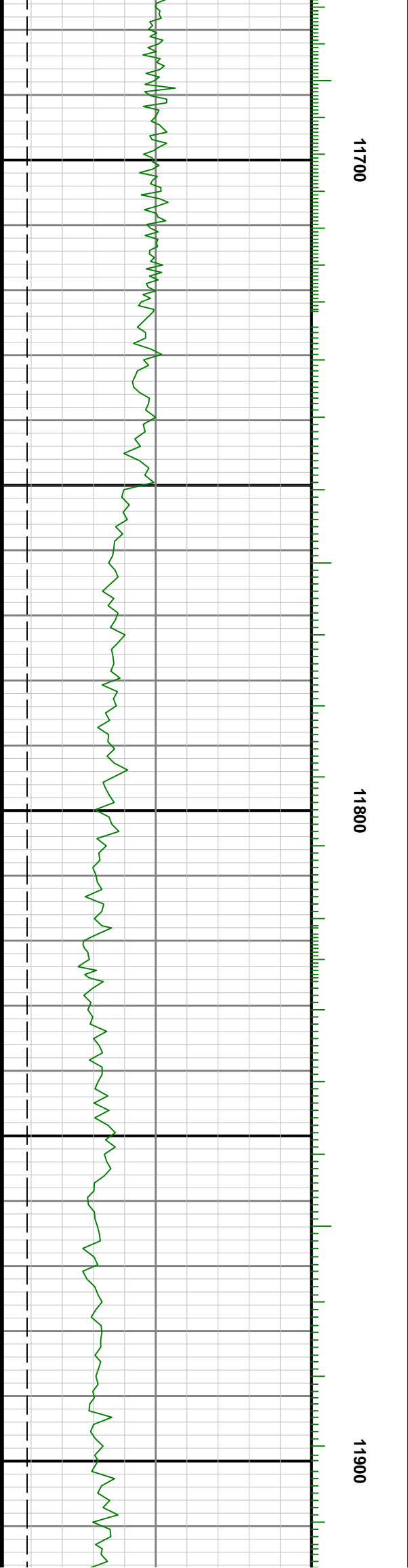
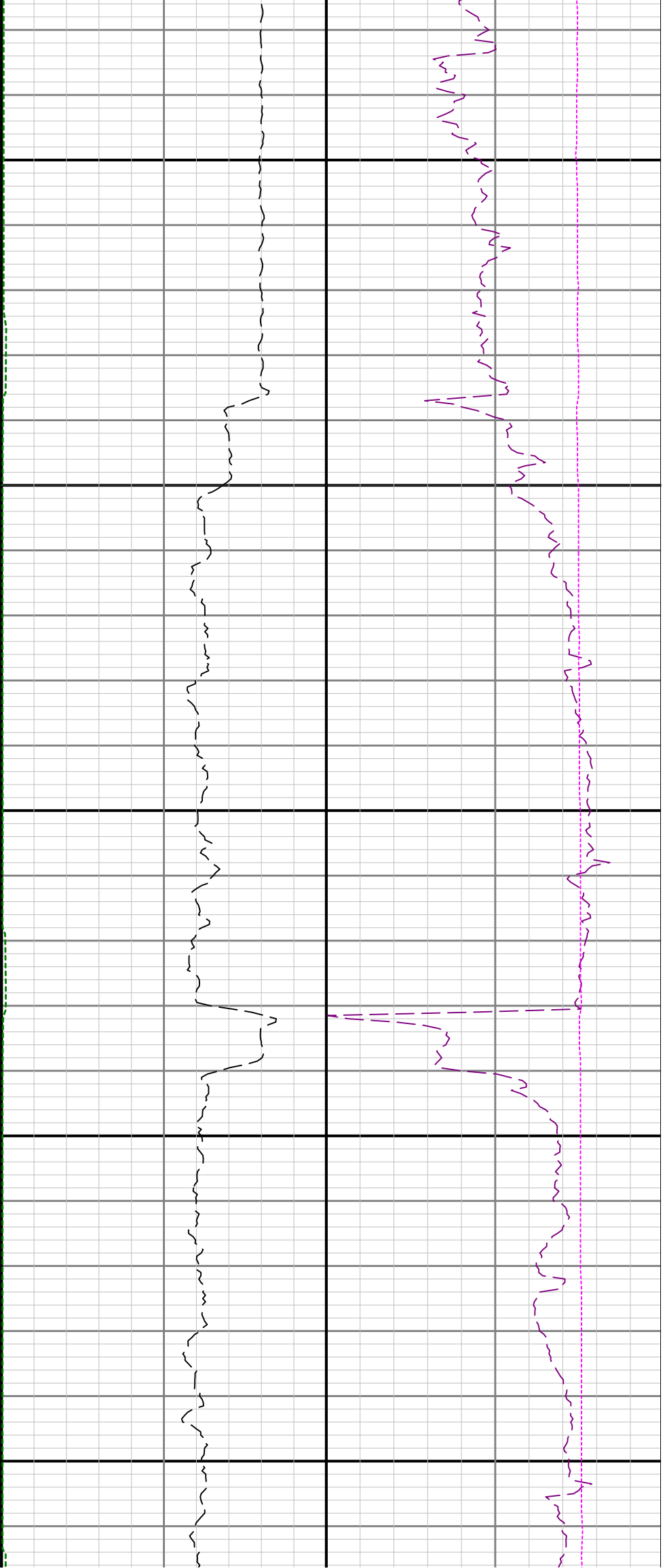


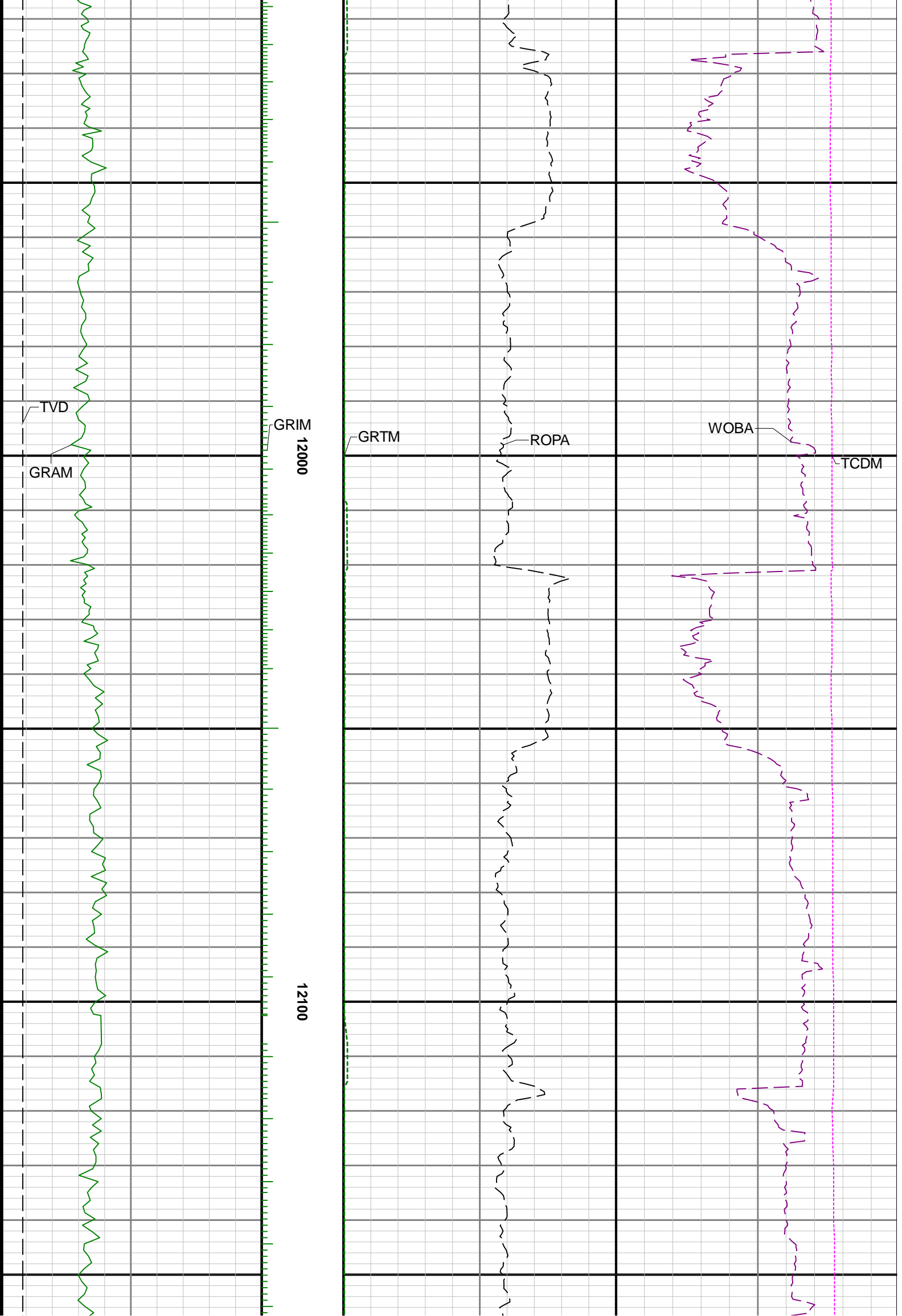


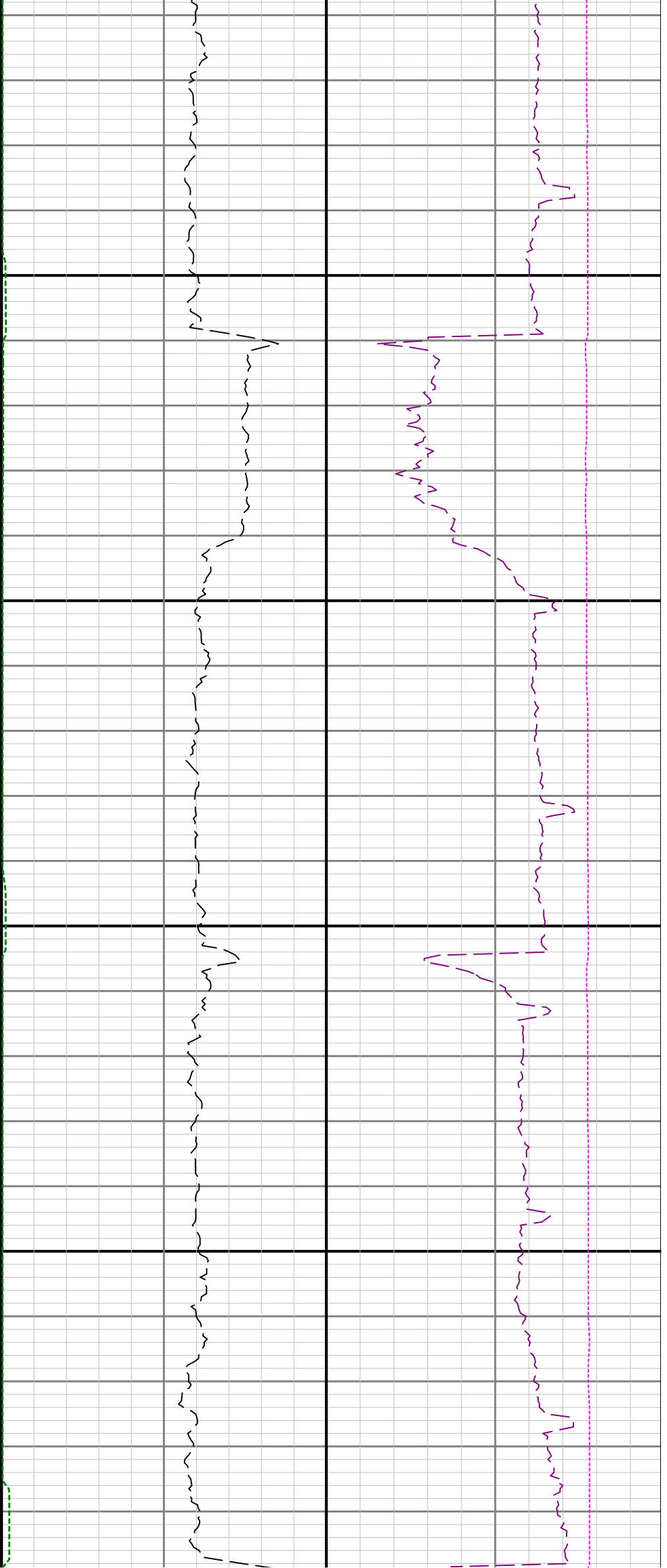
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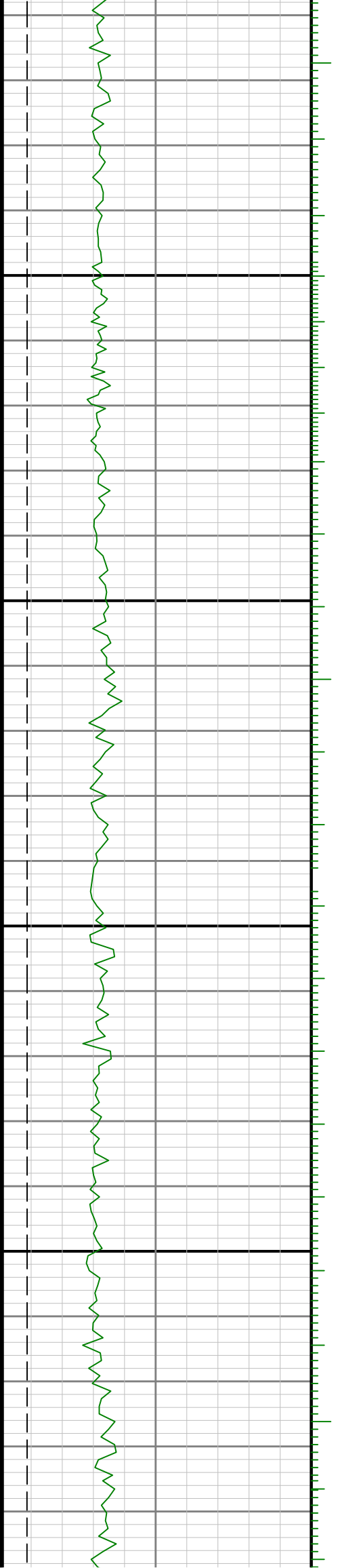


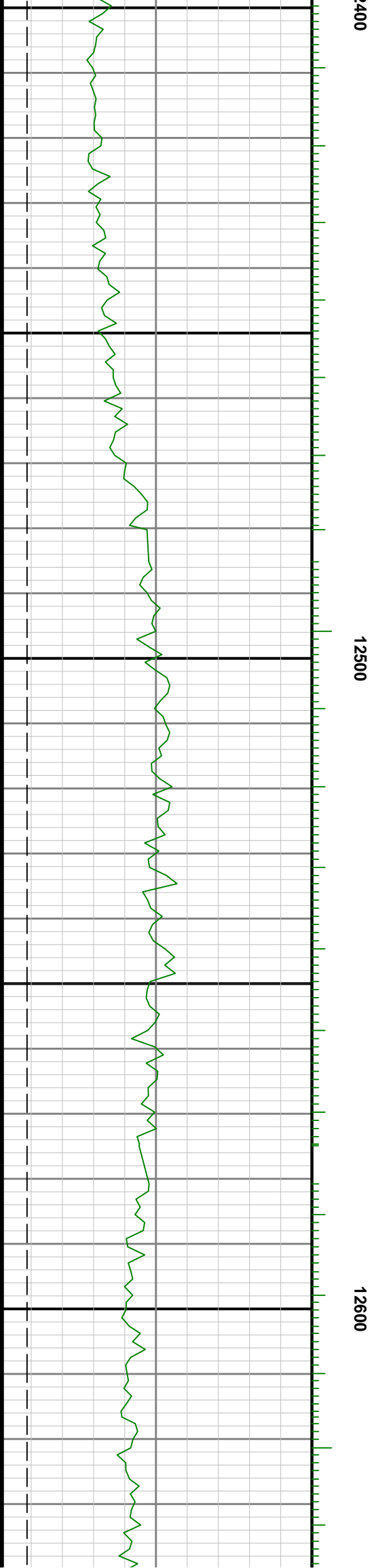


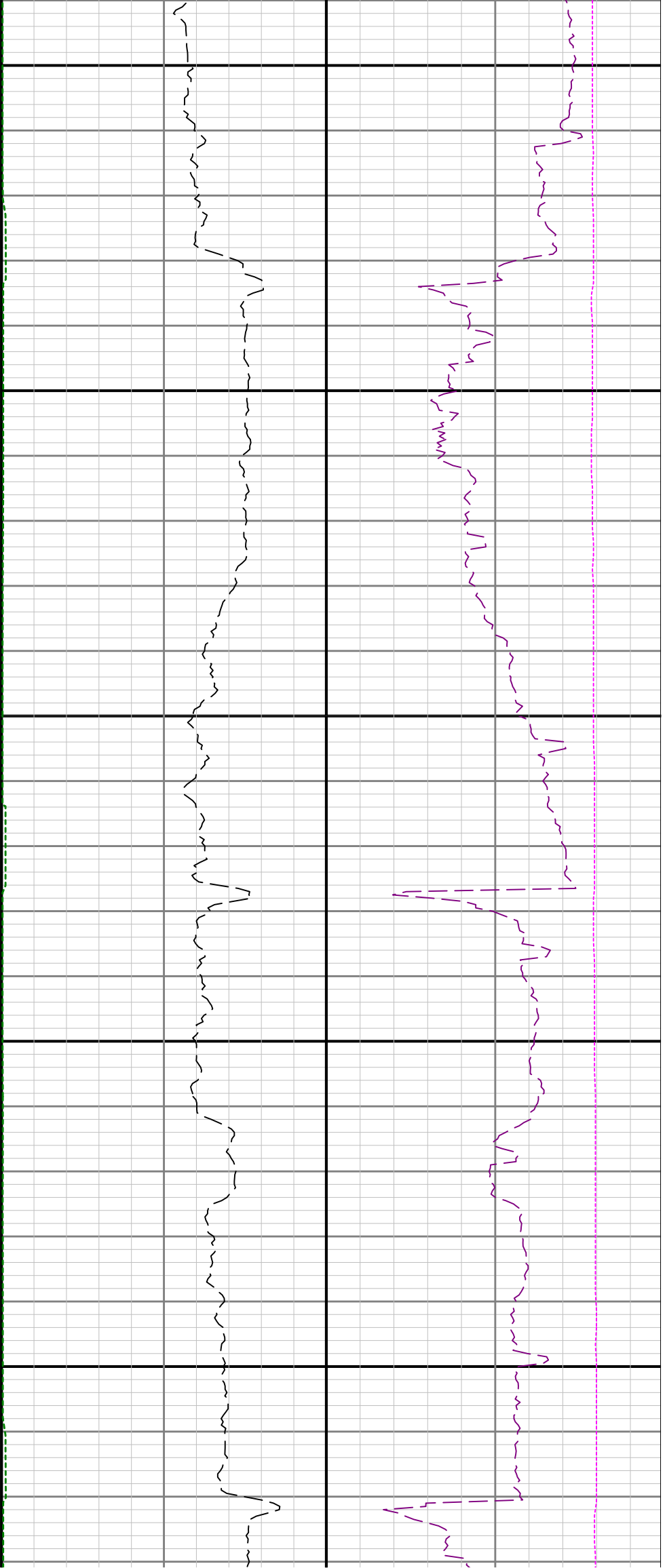
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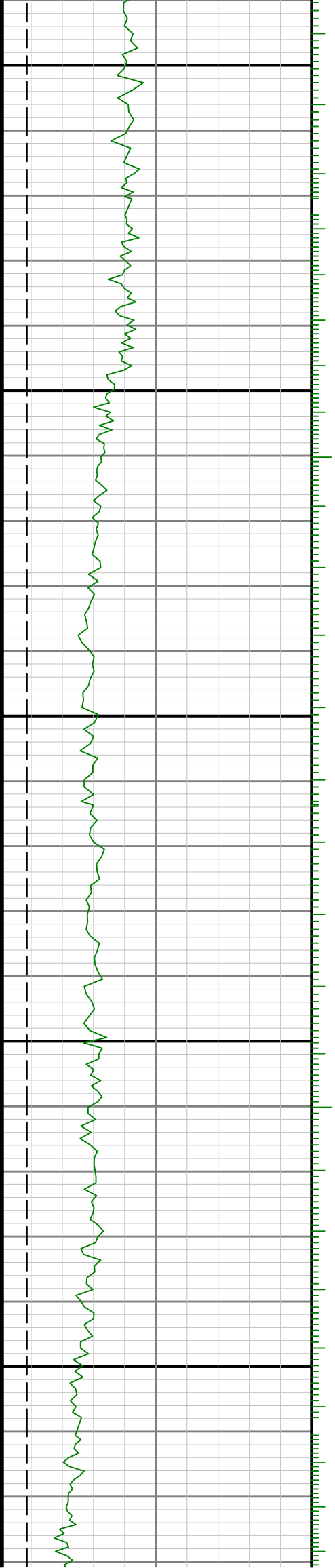


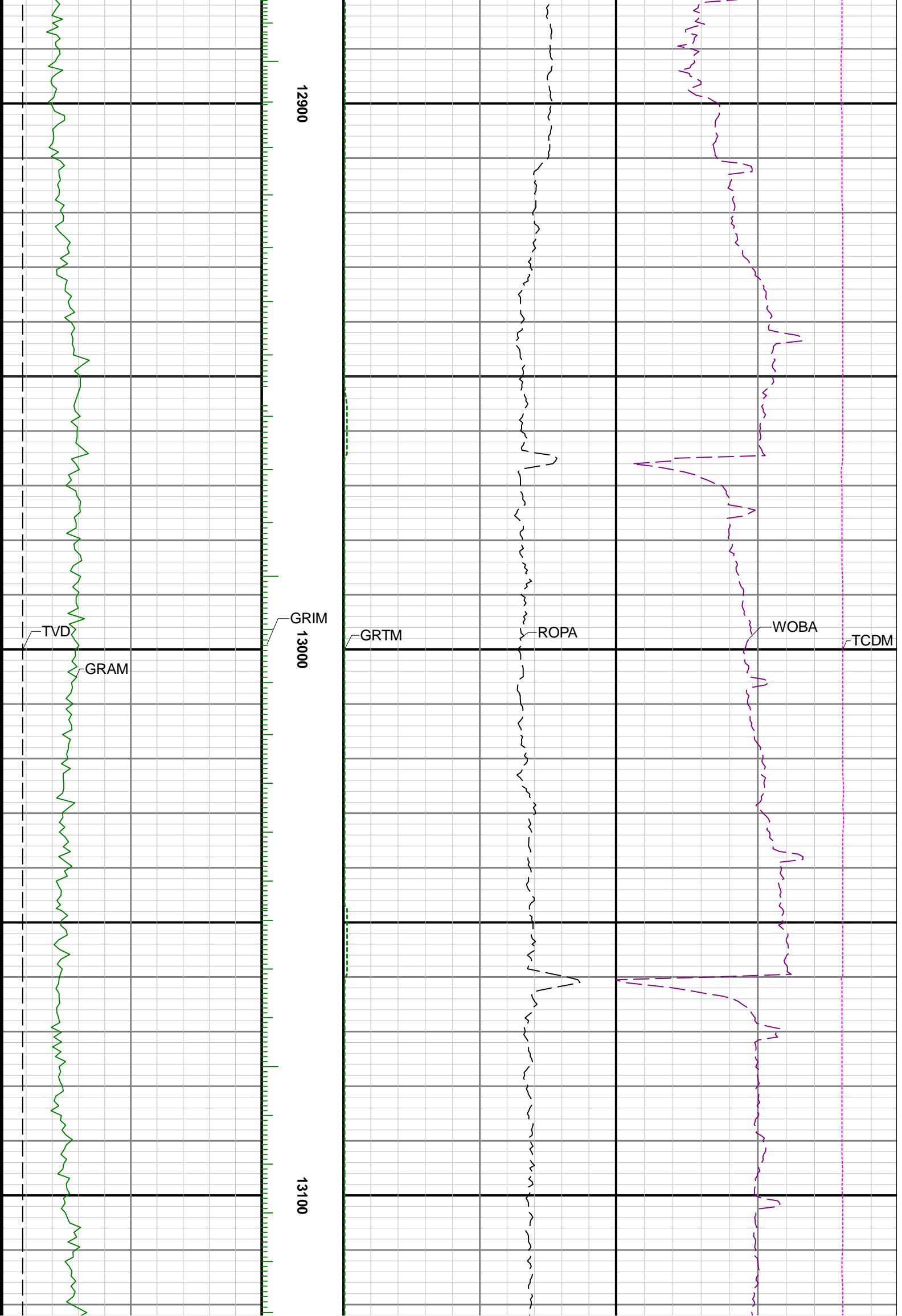




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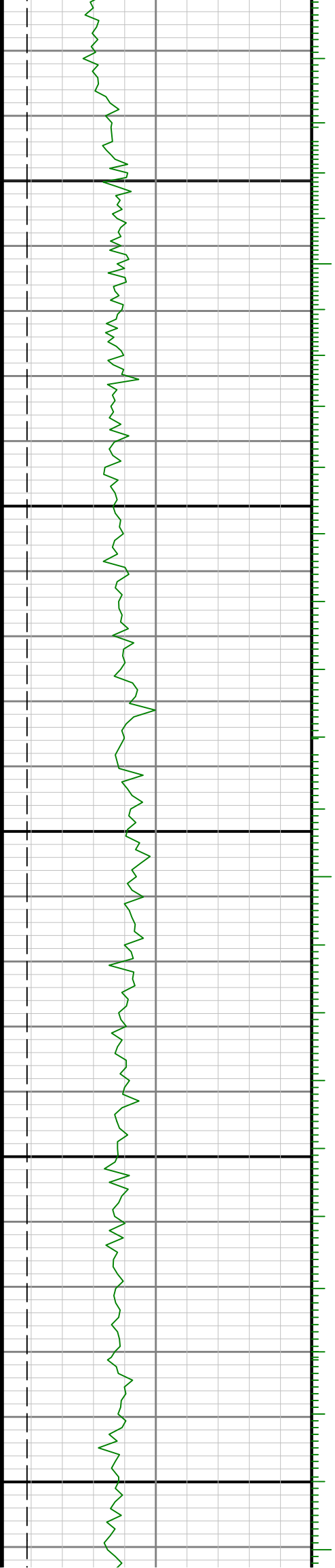


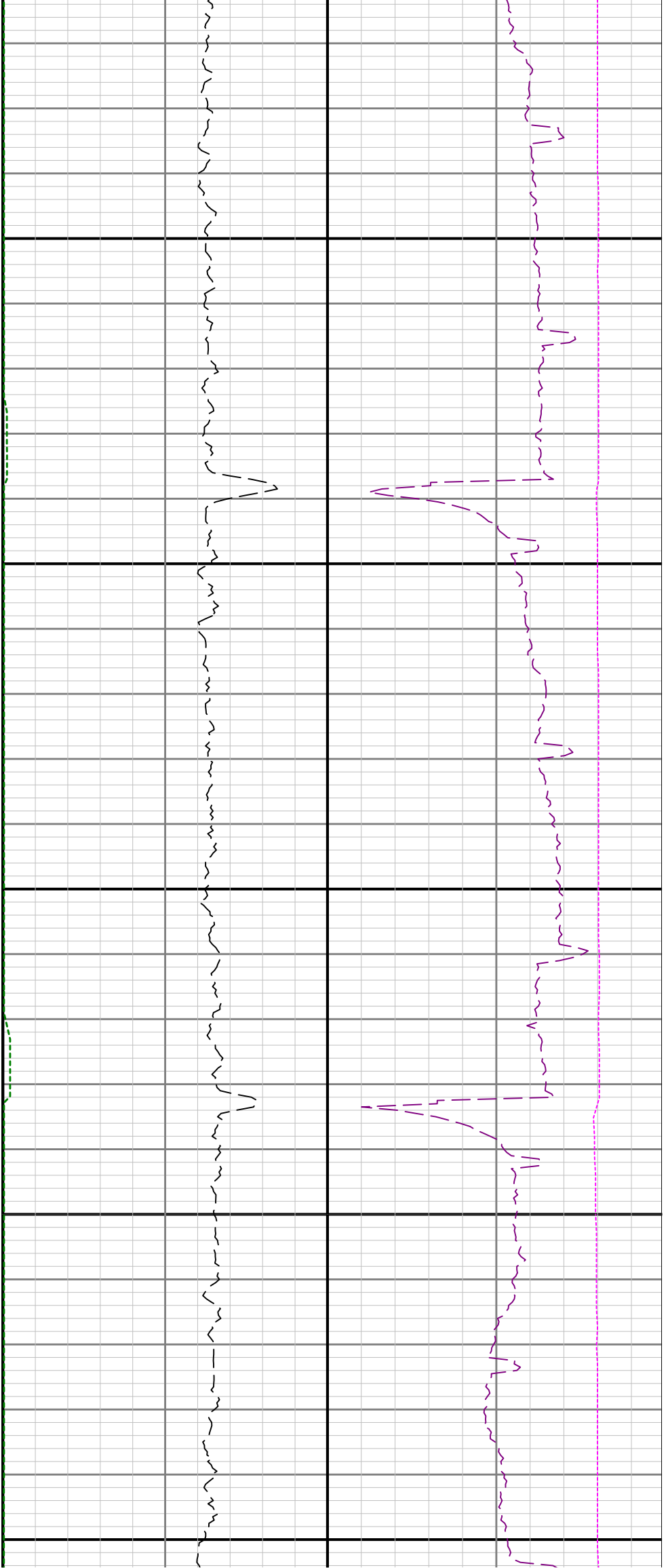




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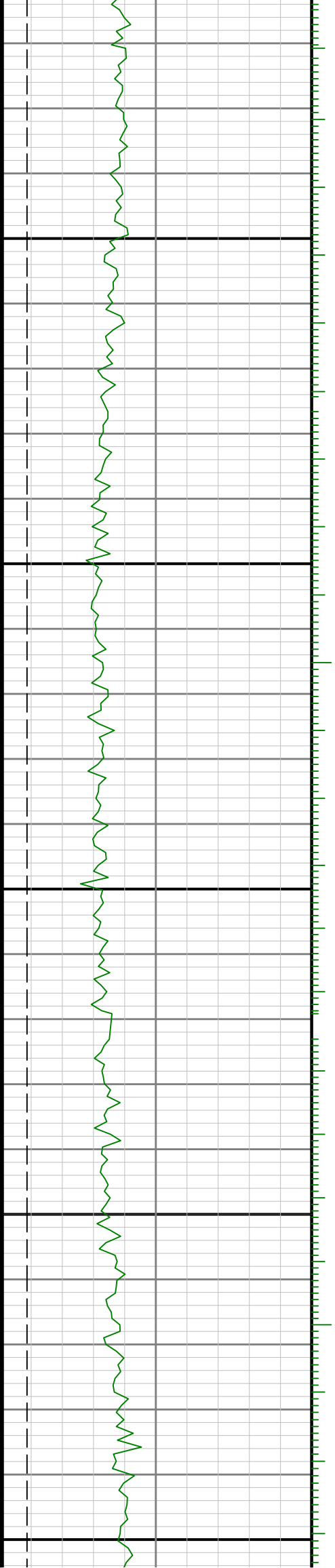




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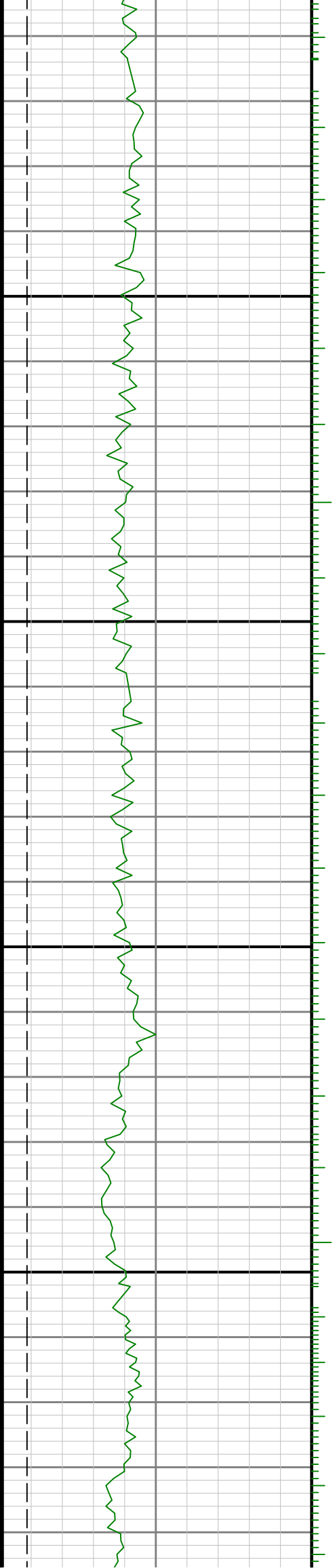
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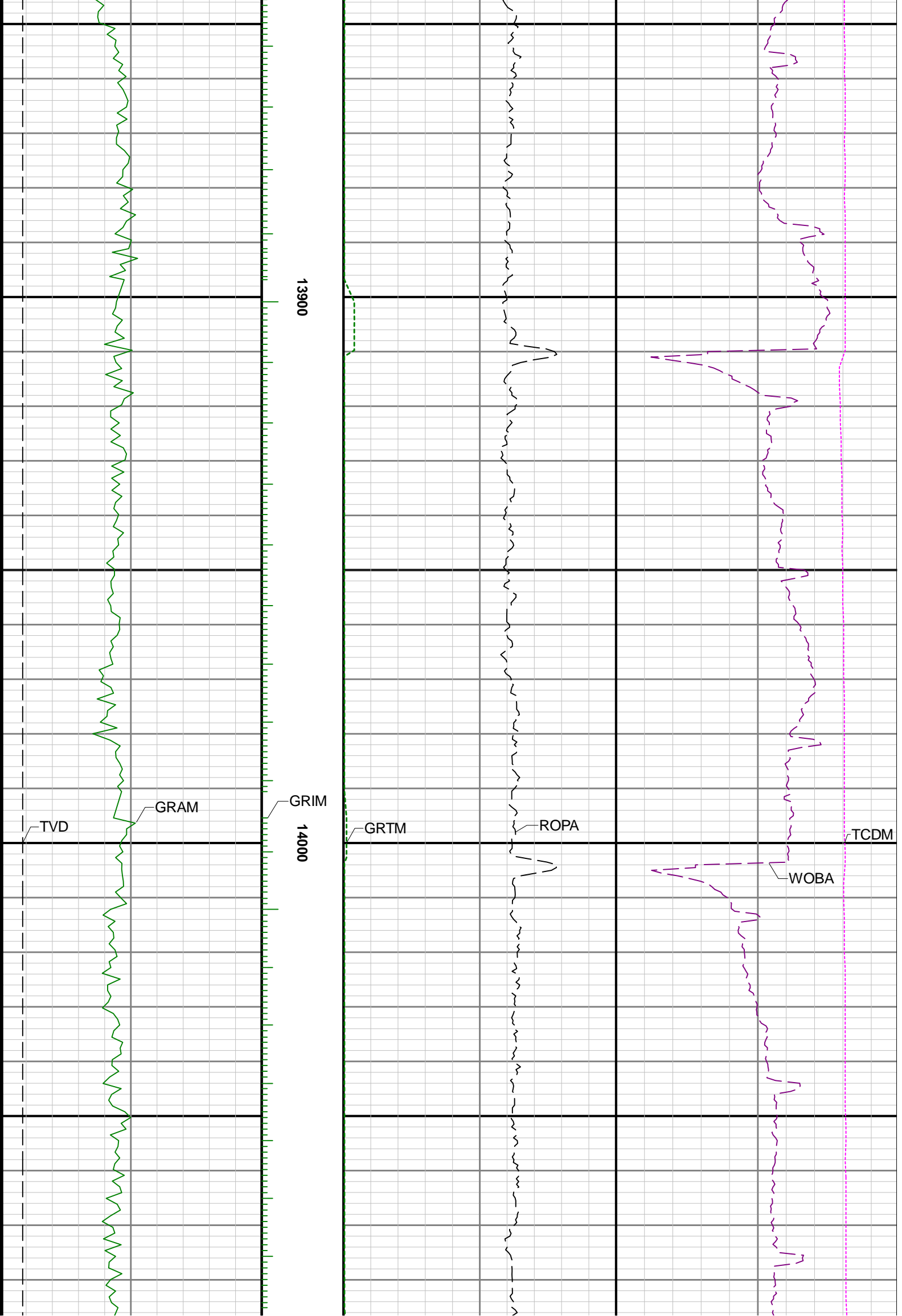


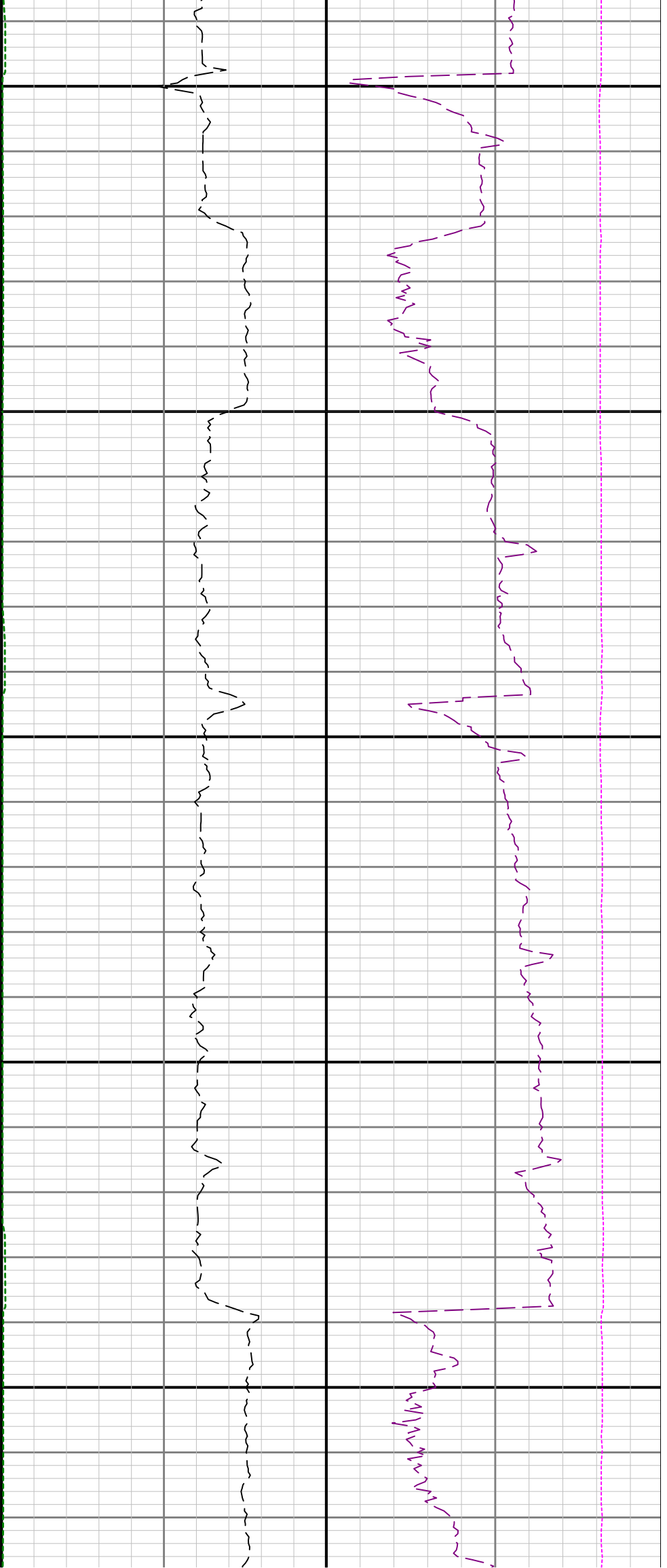


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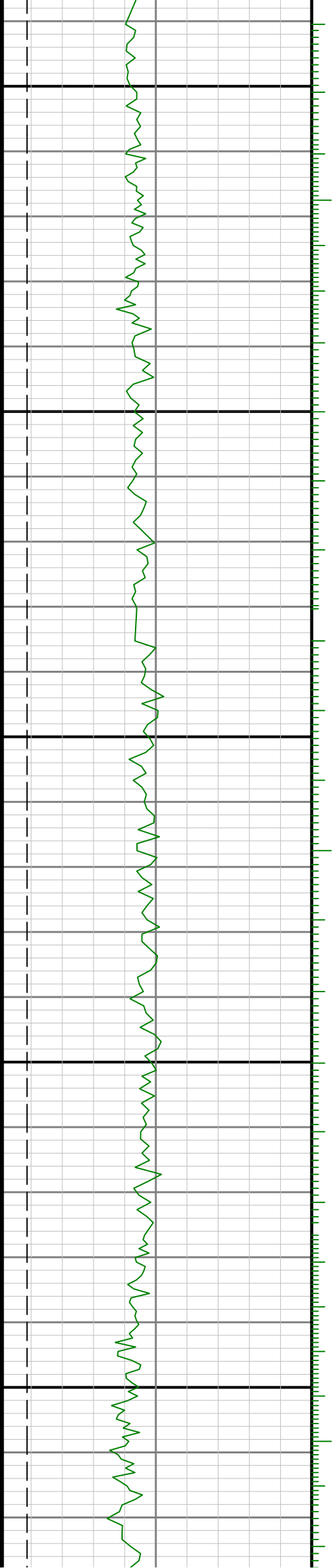


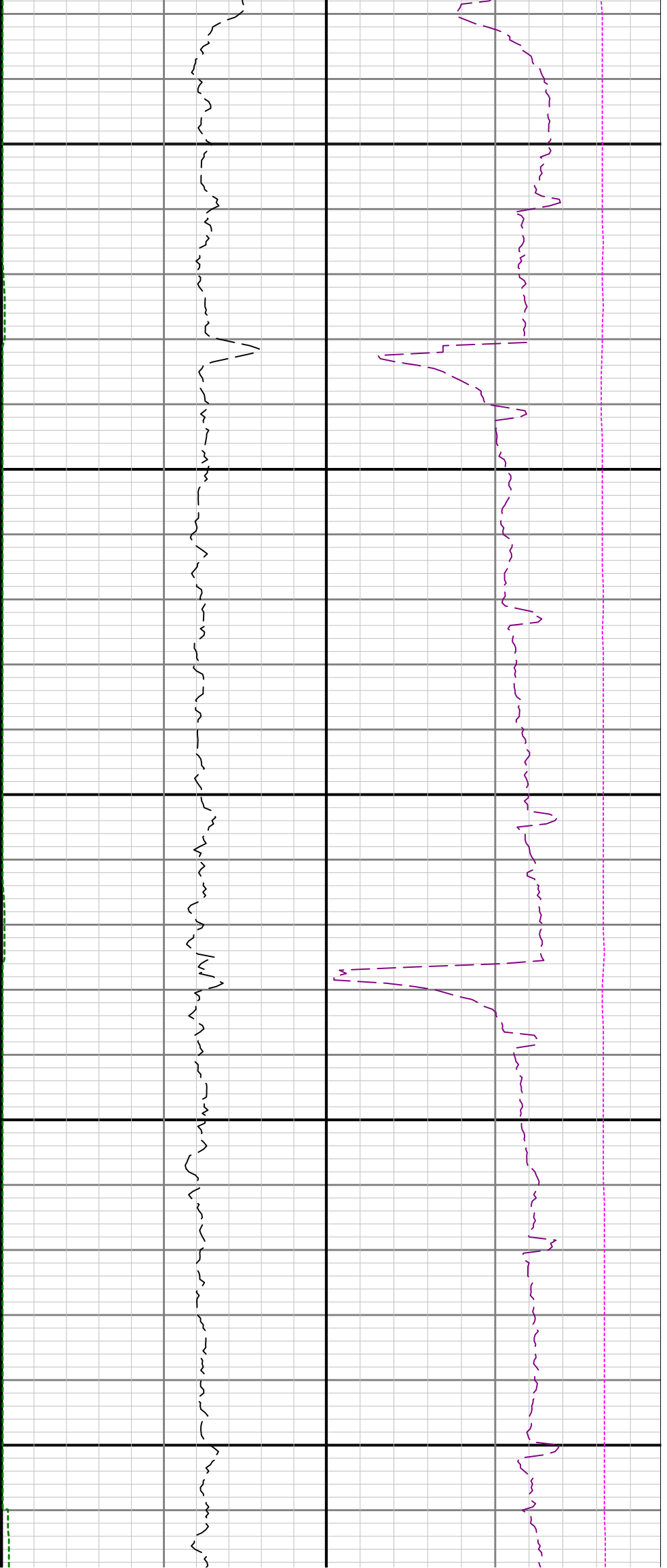


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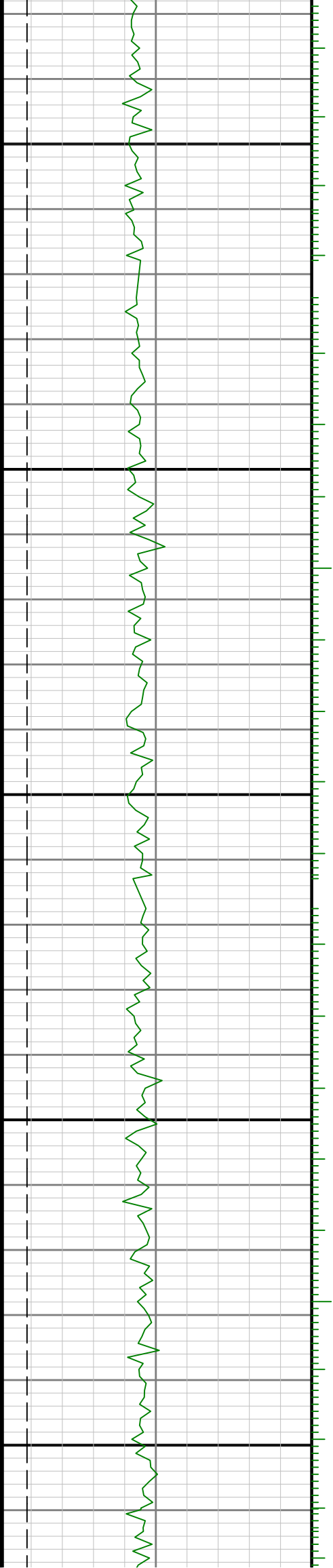
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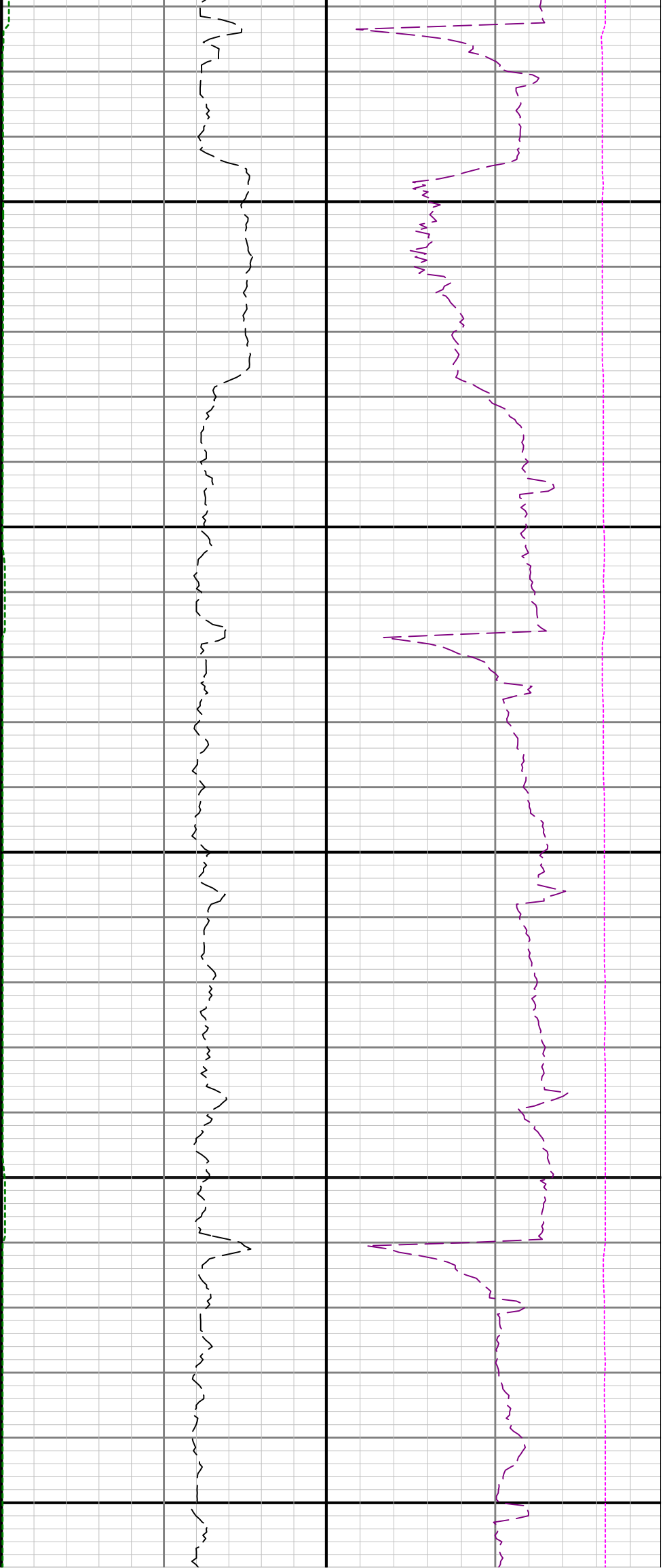




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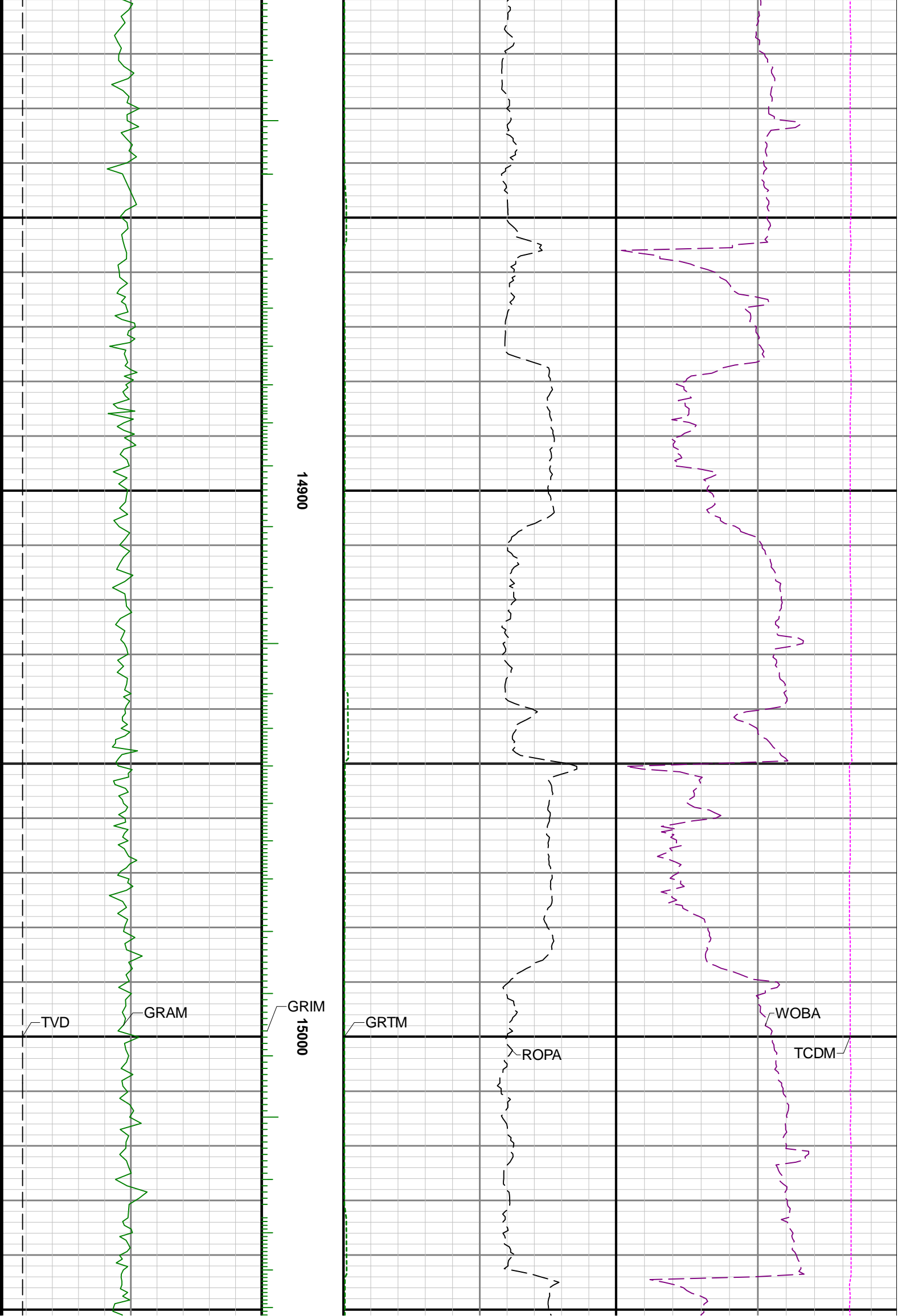


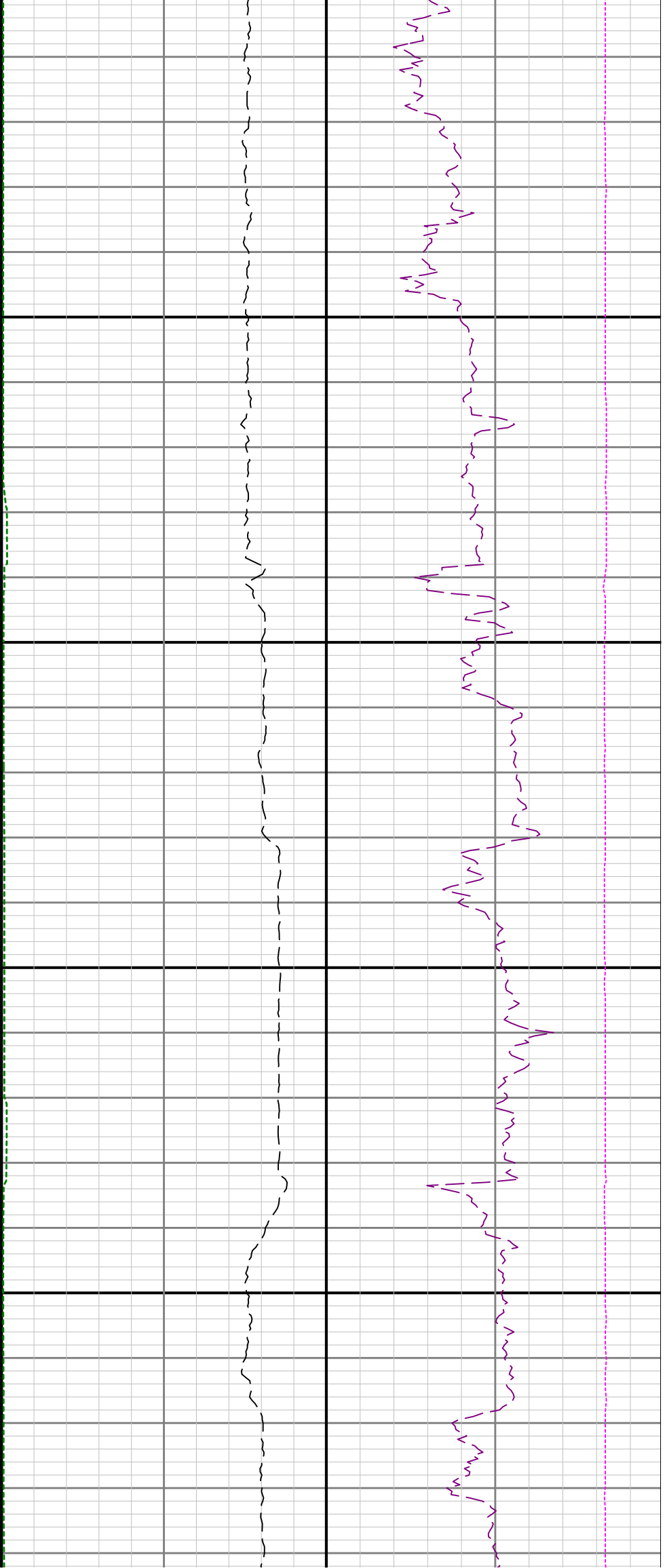


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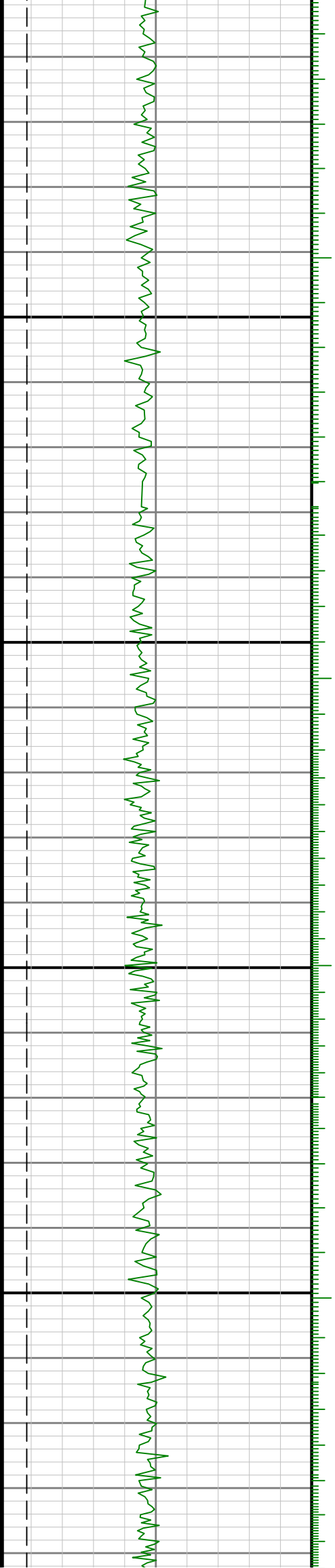
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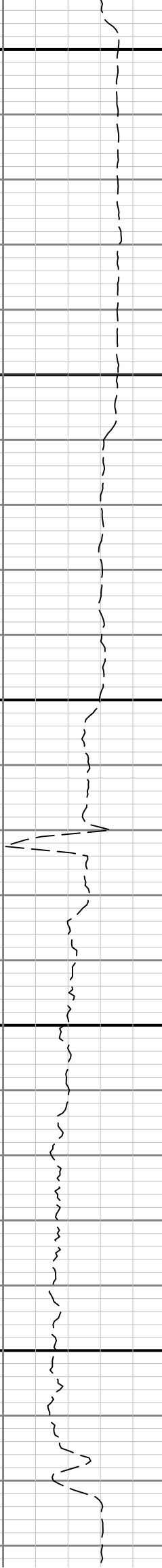
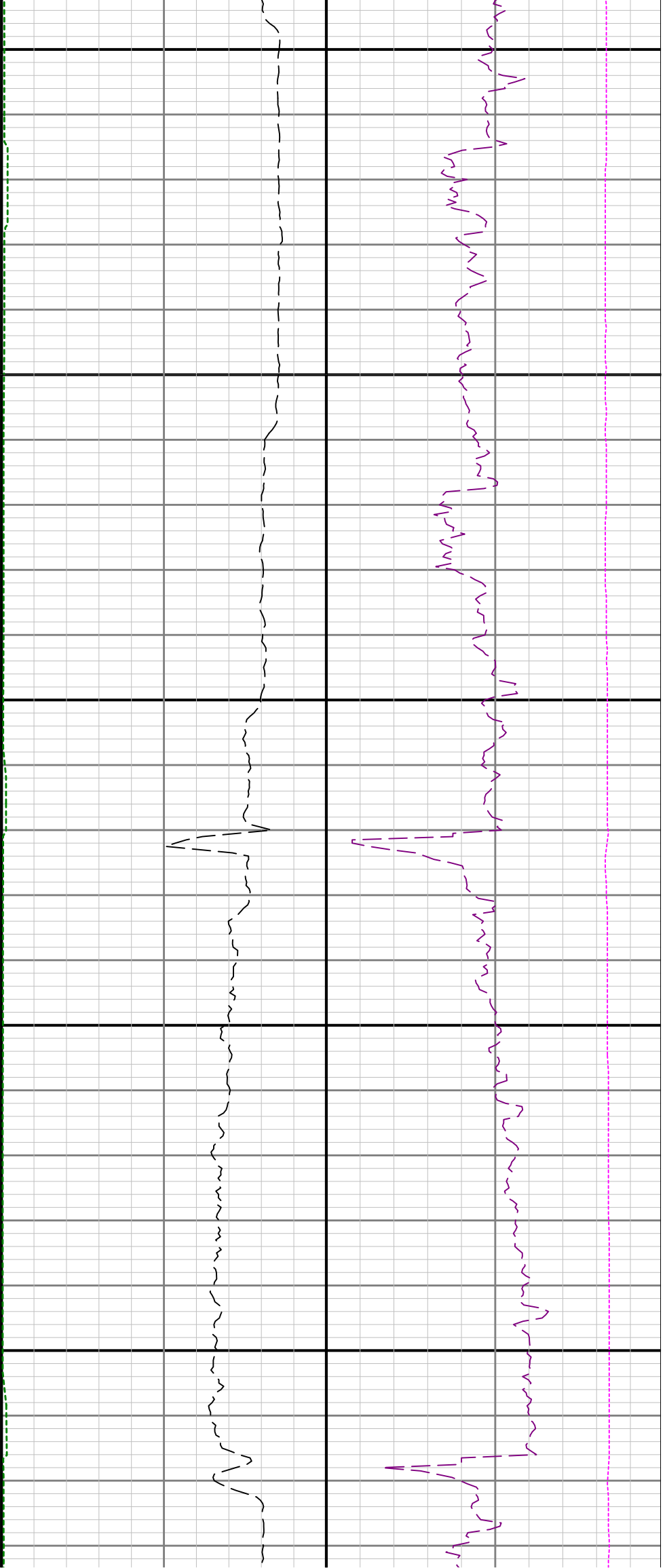




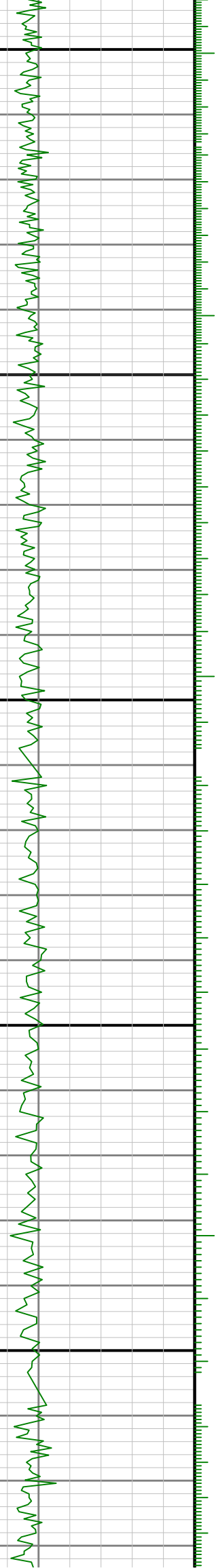
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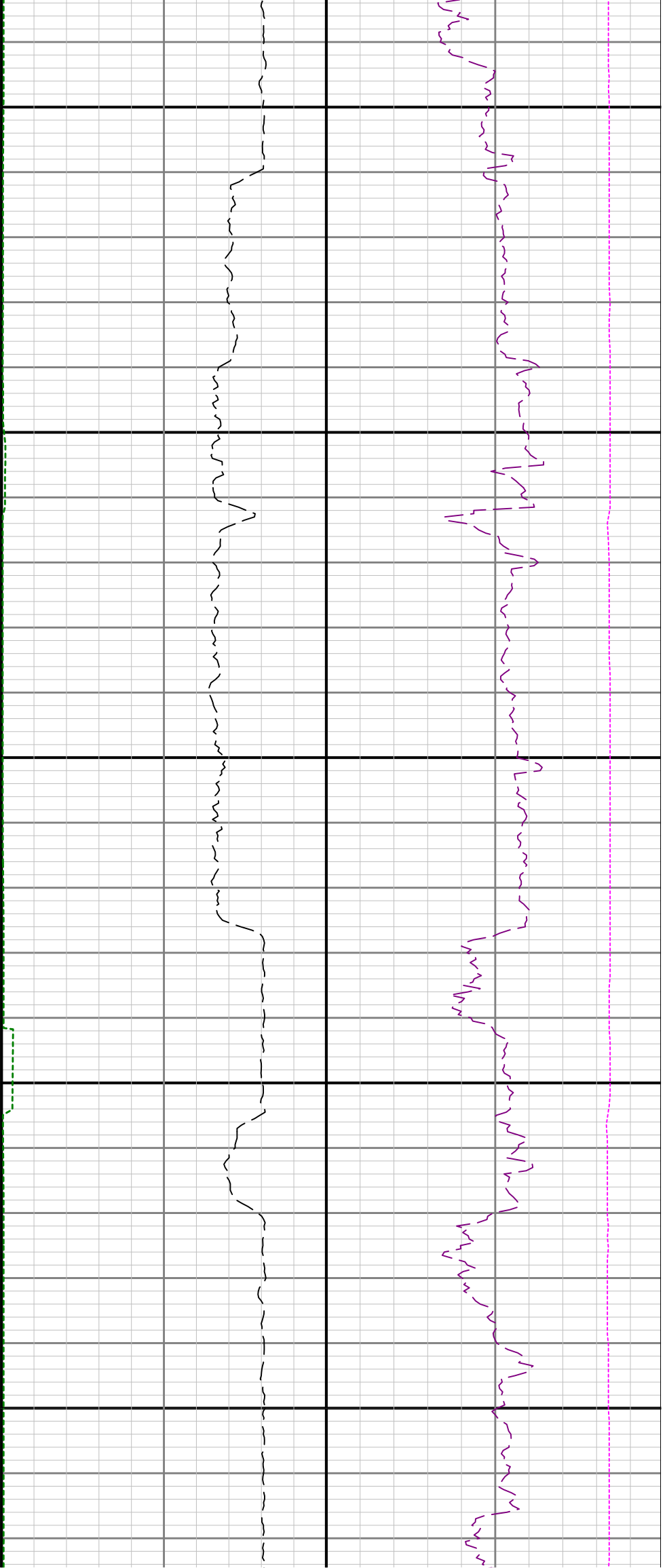
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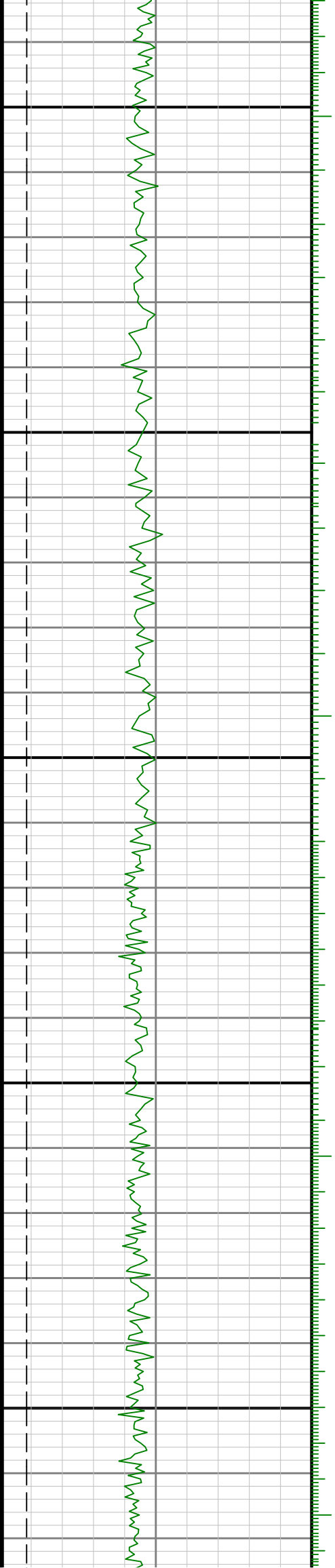
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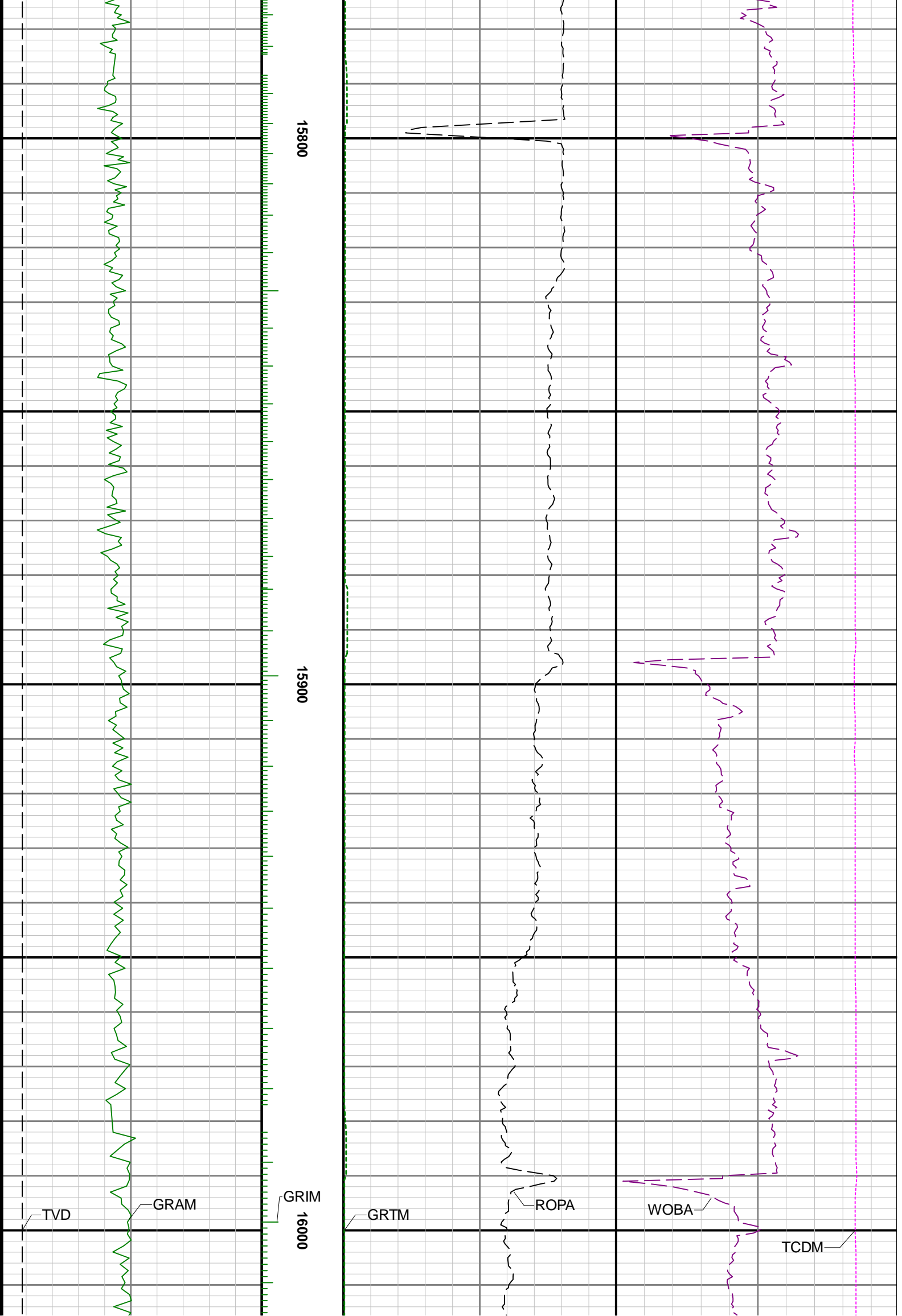


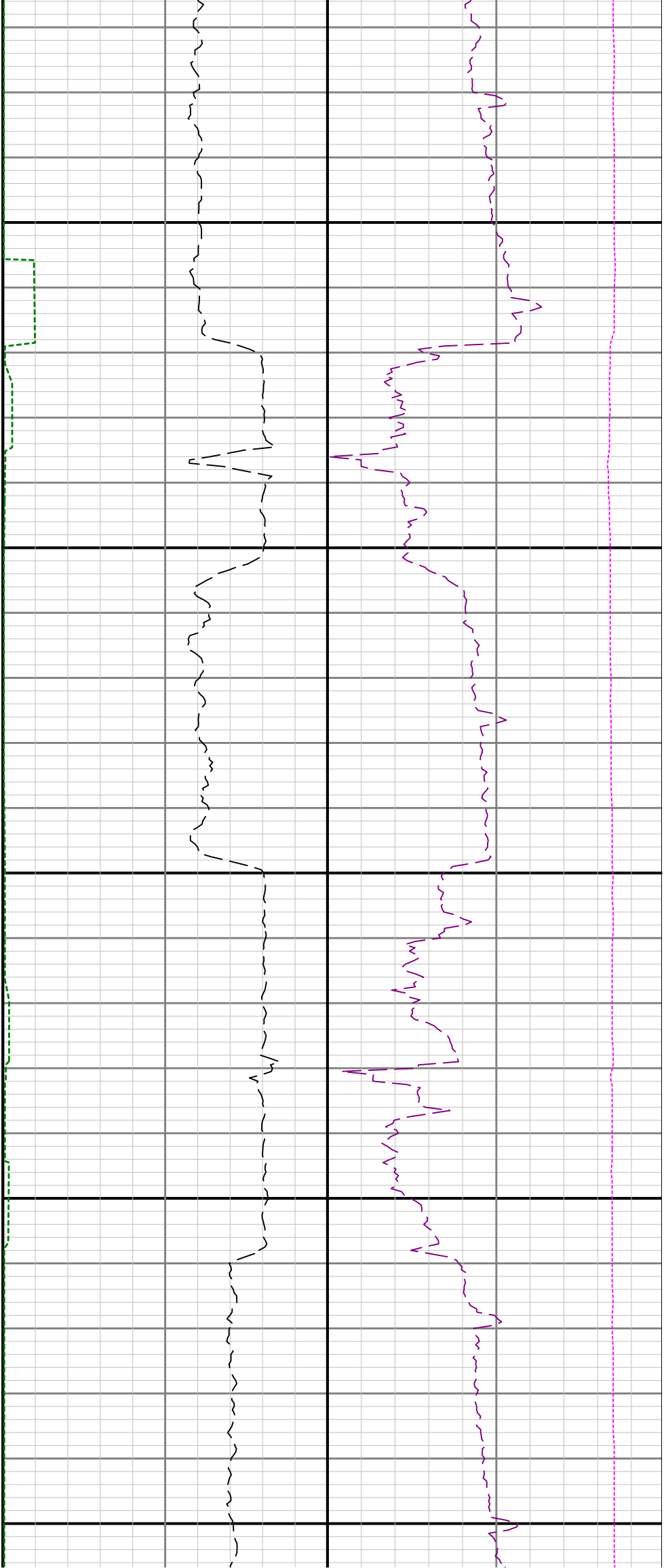


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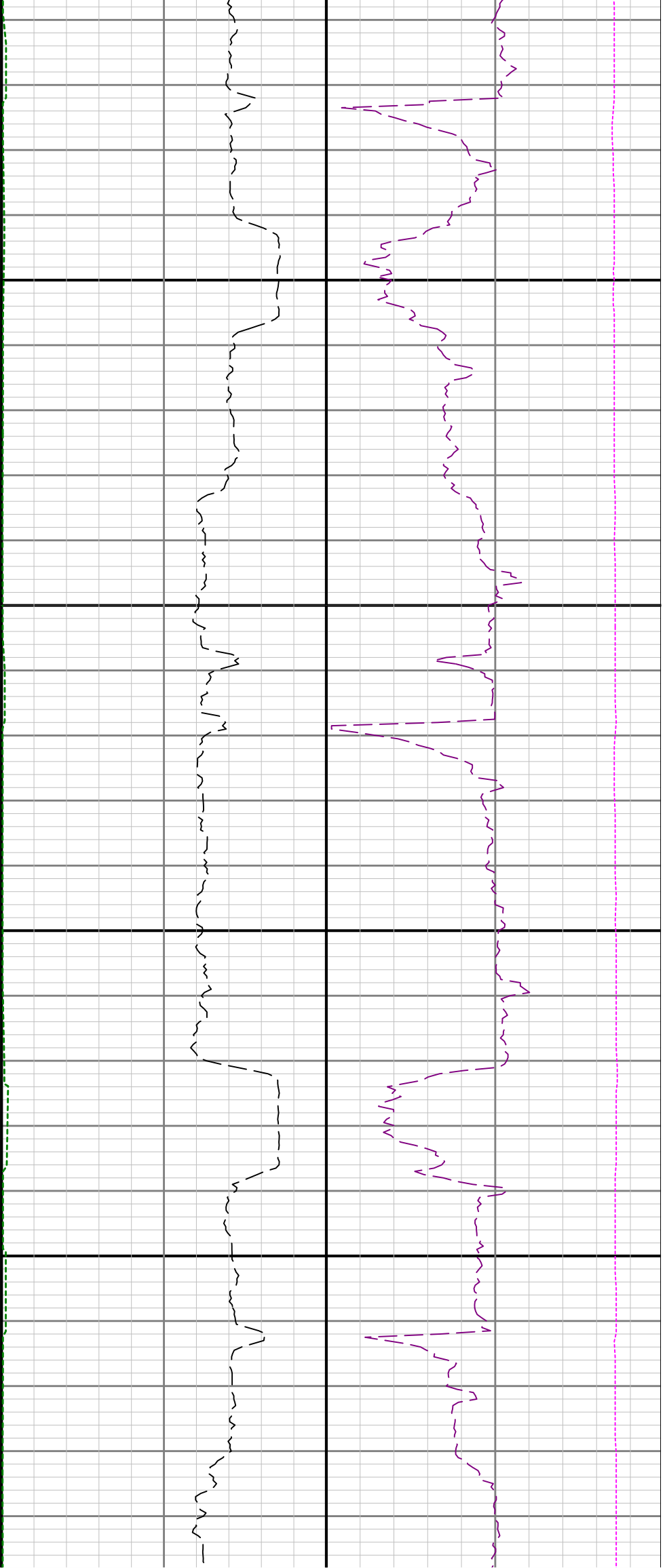






16100

16200



16300

16400

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