

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
1	AutoTrak Curve Steering Unit	14382369	Near Bit VSS	5.93	6.77	7.000	4.330
1	AutoTrak Curve Steering Unit	14382369	Near Bit Inclination	5.93	6.77	7.000	4.330
1	AutoTrak Curve MWD	14452418	Gamma (single)	2.79	12.94	7.000	3.250
1	AutoTrak Curve MWD	14452418	Directional (mag)	12.27	22.42	7.000	3.250
2	AutoTrak Curve Steering Unit	14868420	Near Bit VSS	5.93	6.77	7.000	4.330
2	AutoTrak Curve Steering Unit	14868420	Near Bit Inclination	5.93	6.77	7.000	4.330
2	AutoTrak Curve MWD	14219765	Gamma (single)	2.73	12.94	7.000	3.250
2	AutoTrak Curve MWD	14219765	Directional (mag)	12.27	22.48	7.000	3.250

Service and Tool Mnemonics

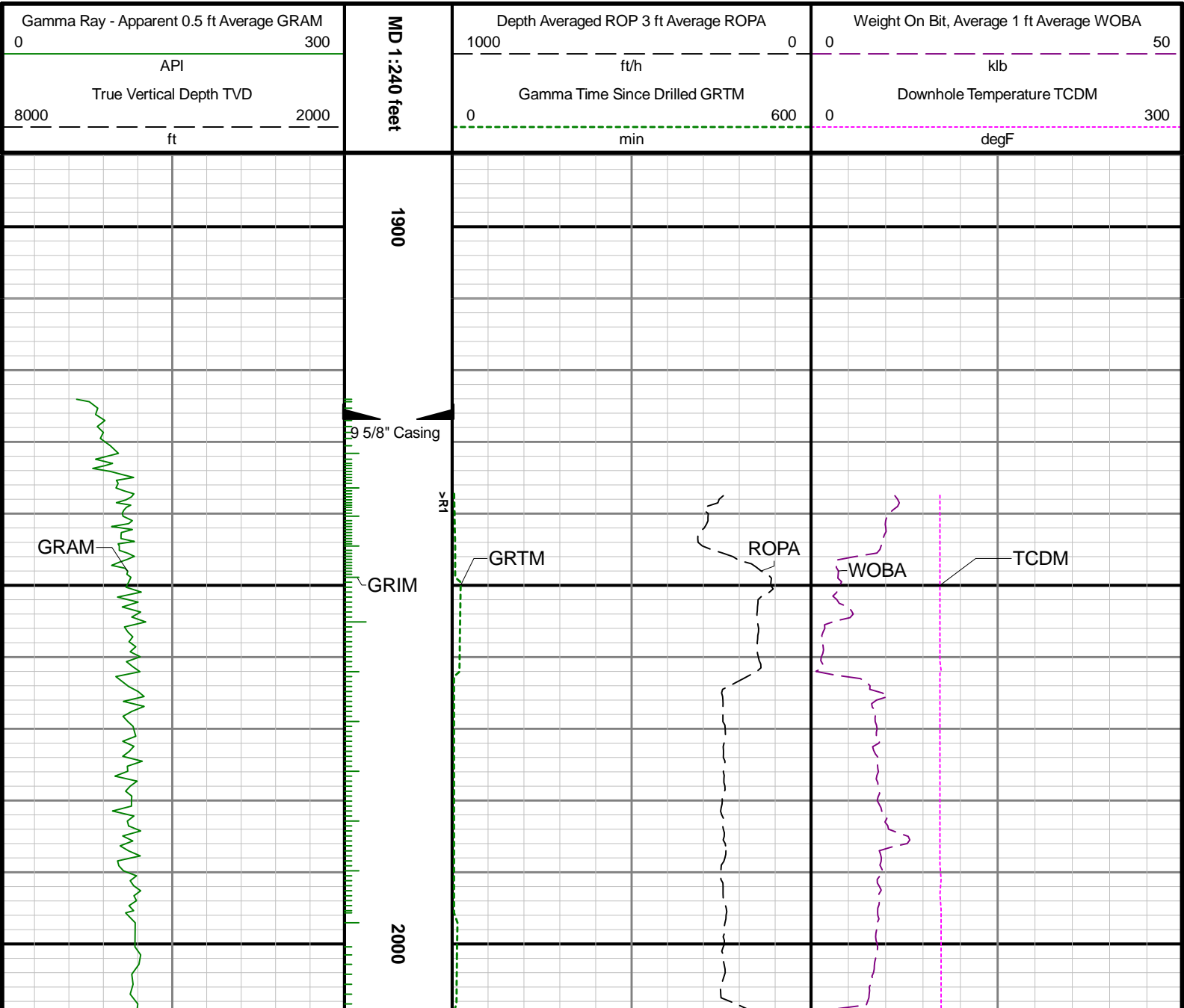
Mnemonic	Name	Description
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ATC MWD	AutoTrak Curve MWD	Auto Trak Curve MWD
ATC LCPM	AutoTrak Curve LCPM	Auto Trak Curve LCPM

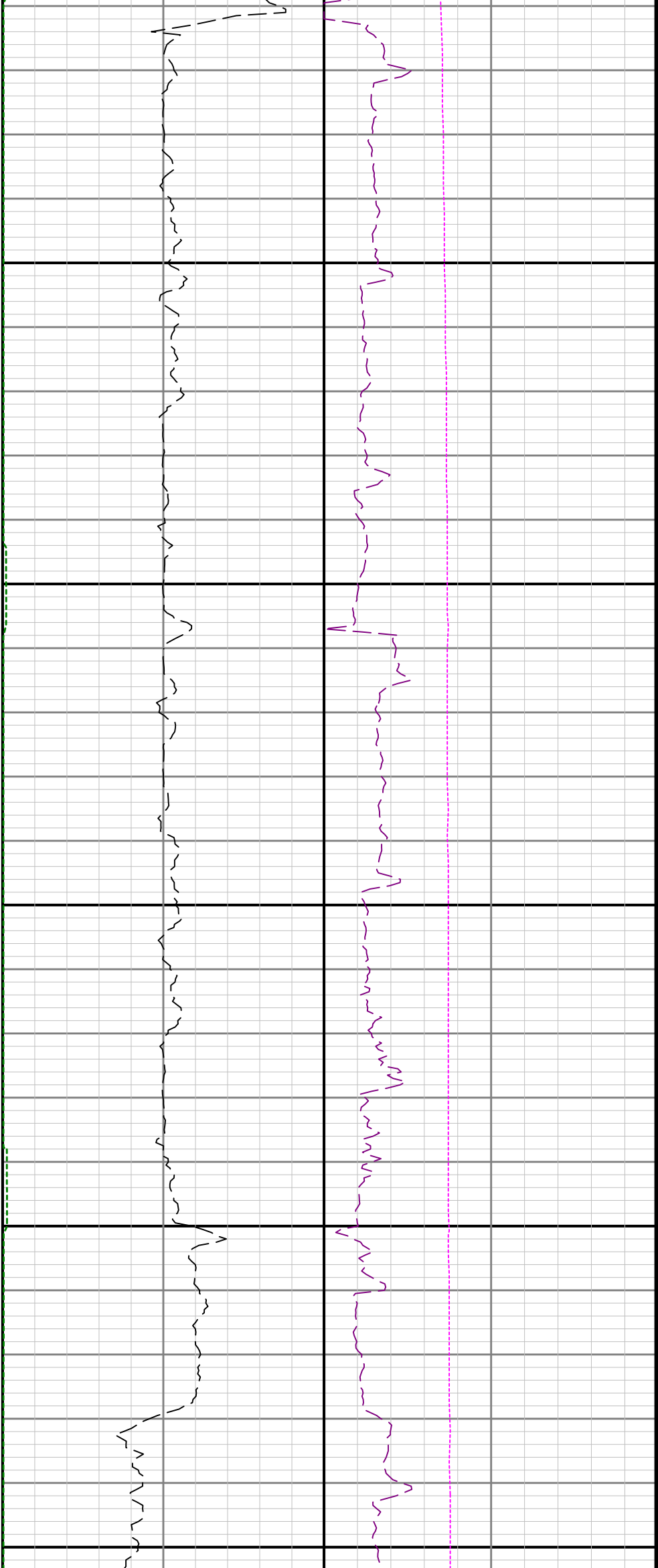
Comments

- 1 Baker Hughes Company runs 1 and 2 utilized 6 ¾ inch NaviGamma services (Gamma Ray and Directional) behind an 8 ½ inch PDC bit and rotary steerable assembly from 1937 to 17078 feet MD (1936 to 6845 feet TVD).
2 Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes Company. Due to a lack of control by Baker Hughes Company logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes Company are being used to present logging data.
3 The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request.

Remarks

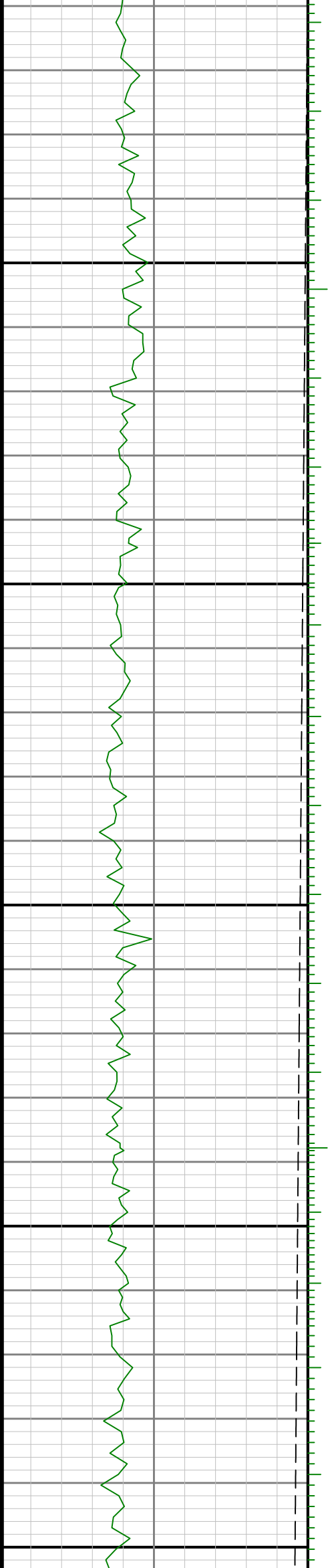
Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	8716.00	8.500	2	The interval from 8716 to 8729 feet MD (6795 to 6795 feet TVD) was logged up to 9 hours after being drilled due to a trip out of the hole for MWD tool failure.
2	8736.00	8.500	2	The interval from 8736 to 8804 feet MD (6795 to 6795 feet TVD) was not logged due to surface equipment failure.
3	17065.00	8.500	2	The interval from 17065 to 17078 feet MD (6845 to 6845 feet TVD) was not logged due to sensor to bit offset at well TD.

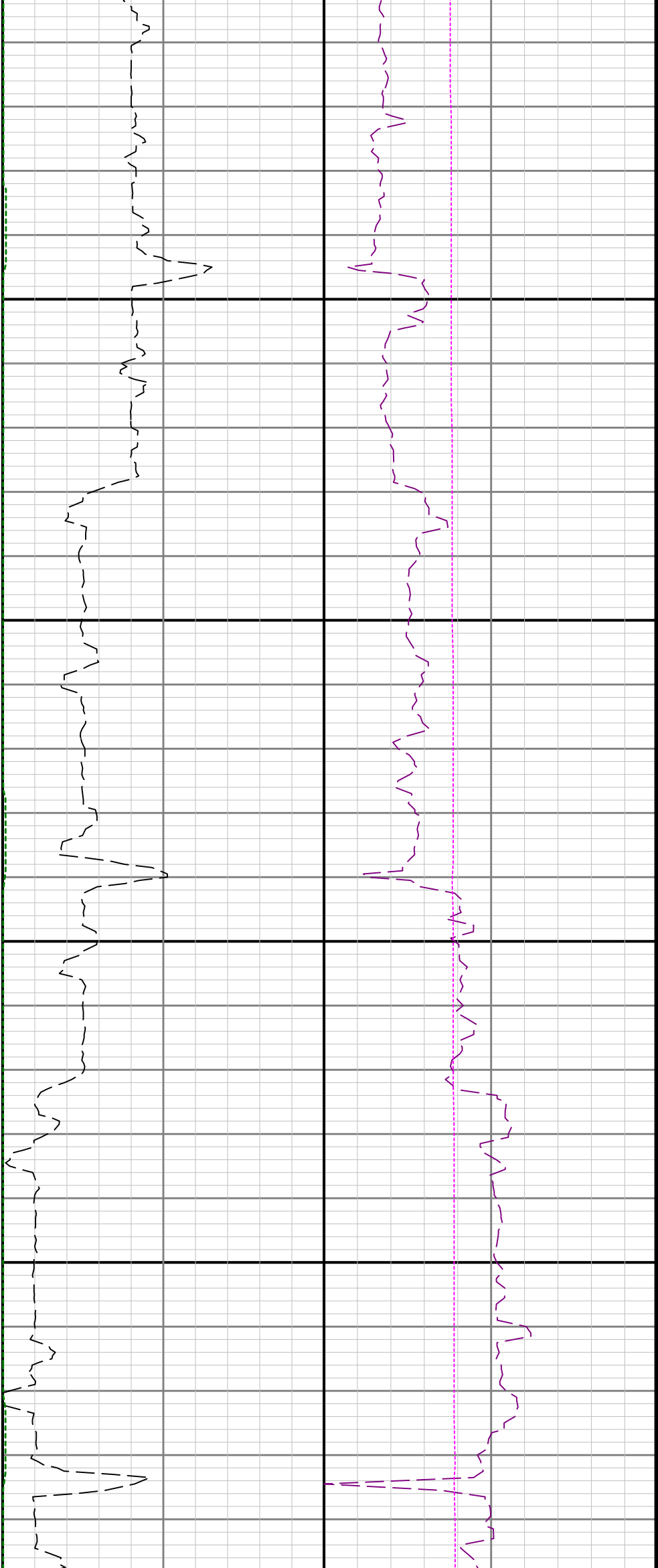




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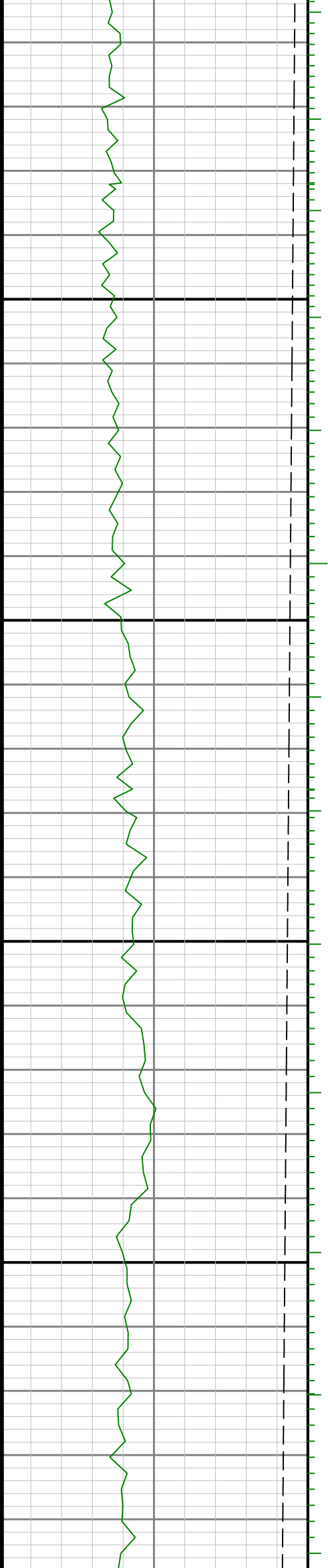
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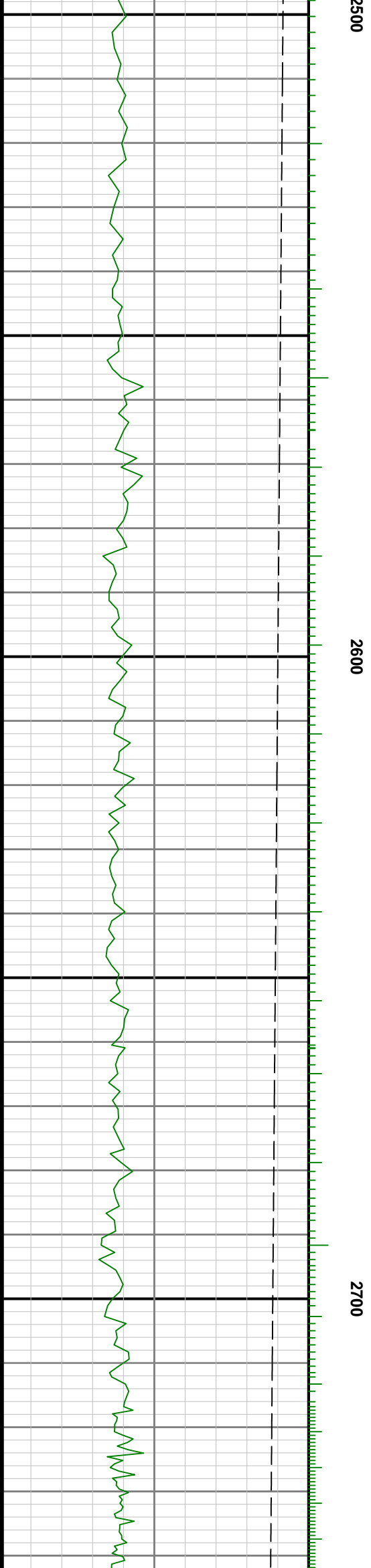
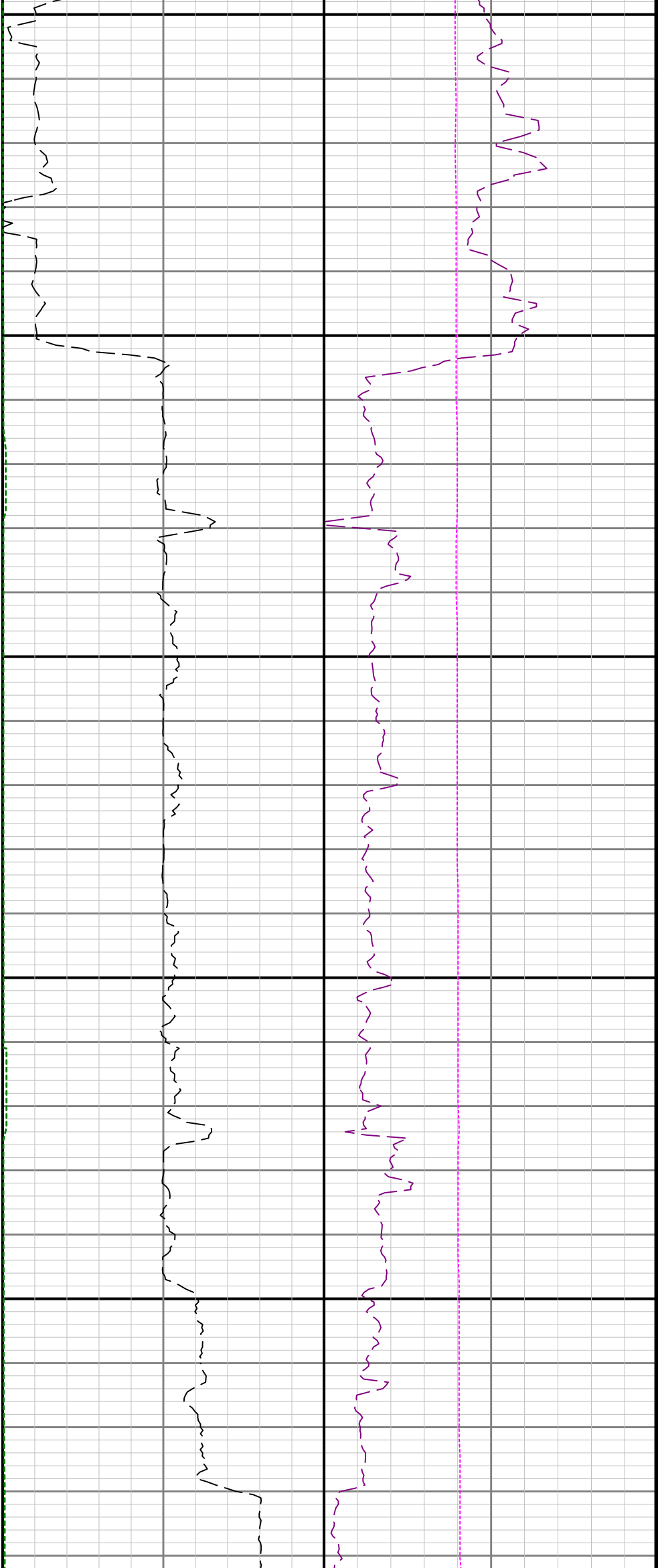


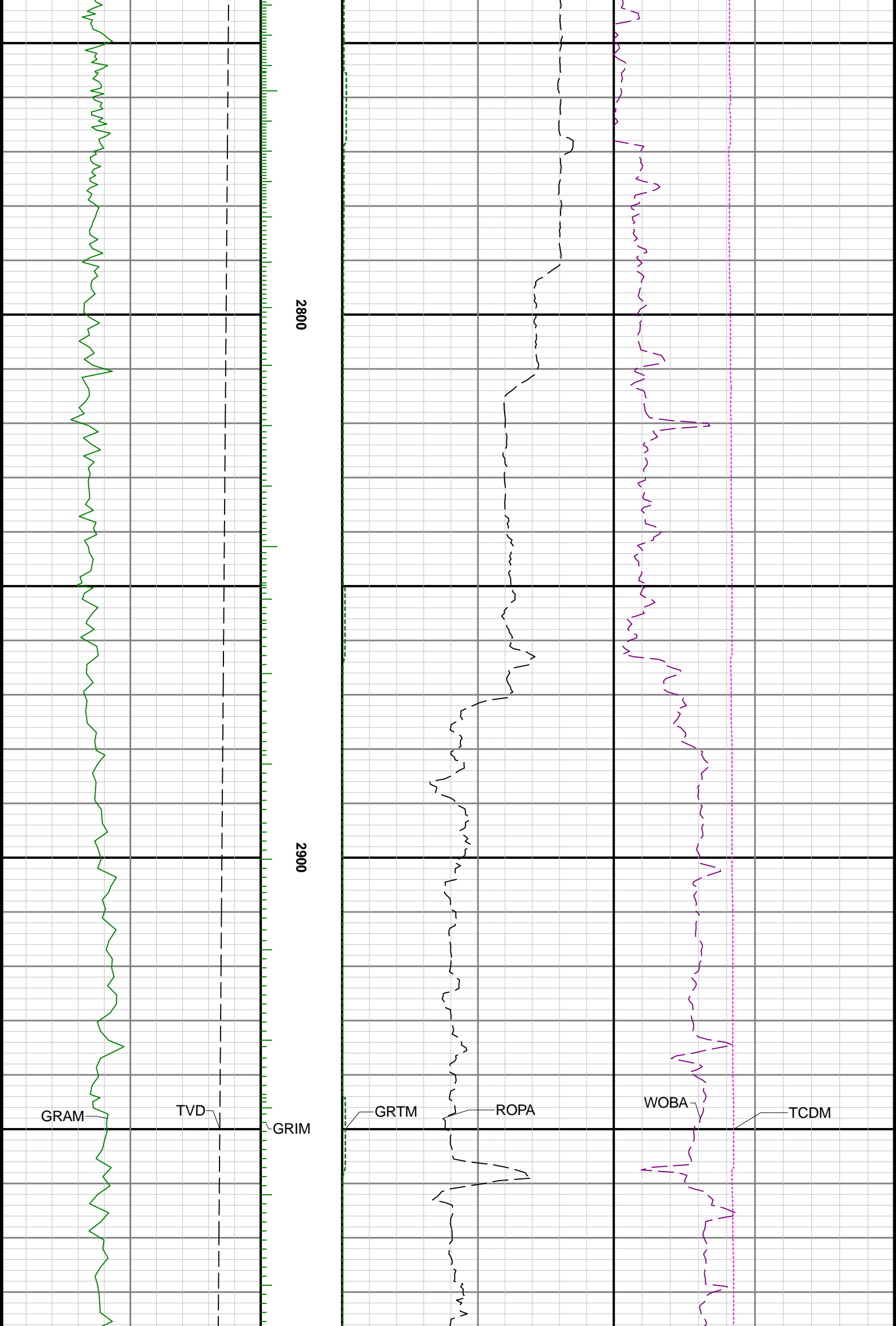


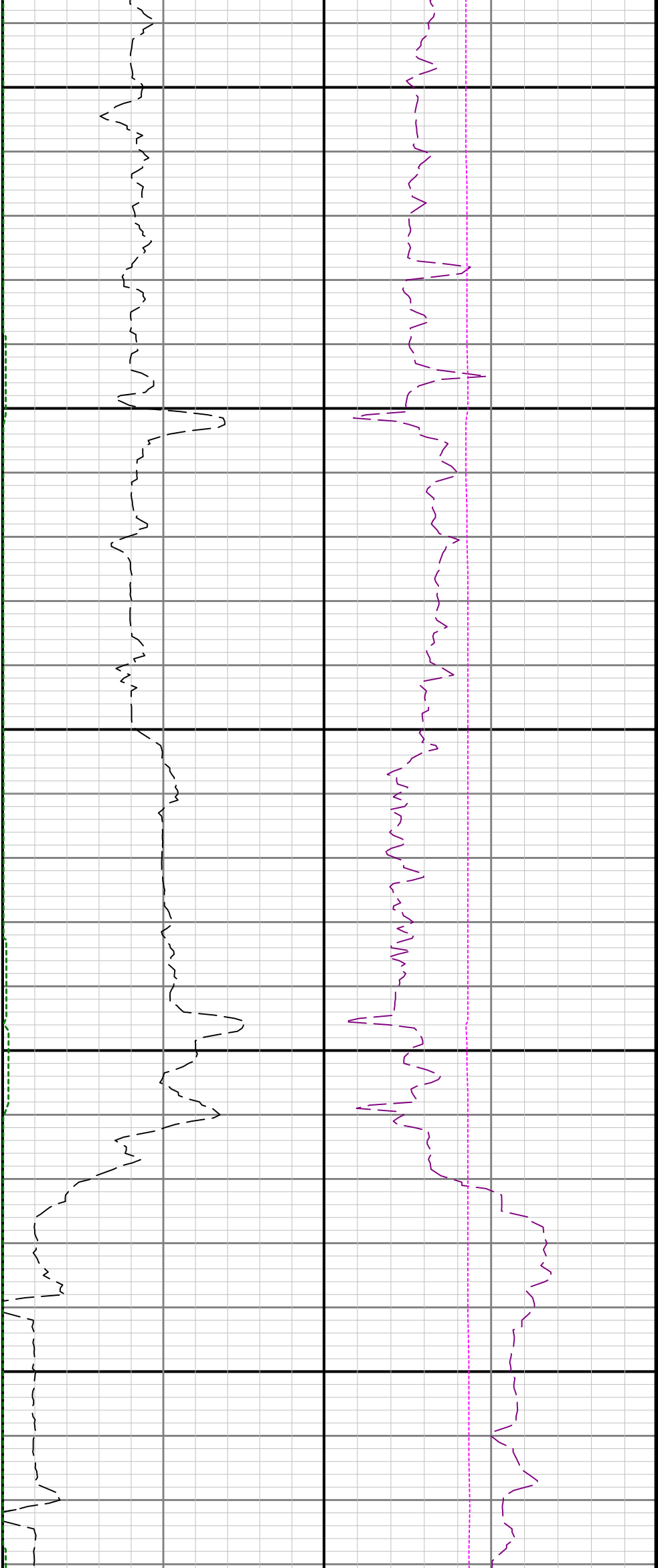
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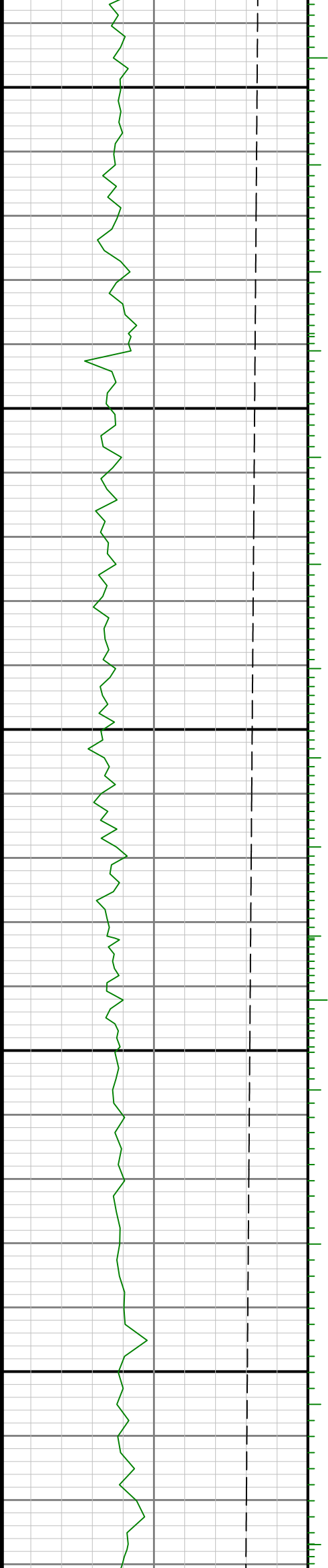


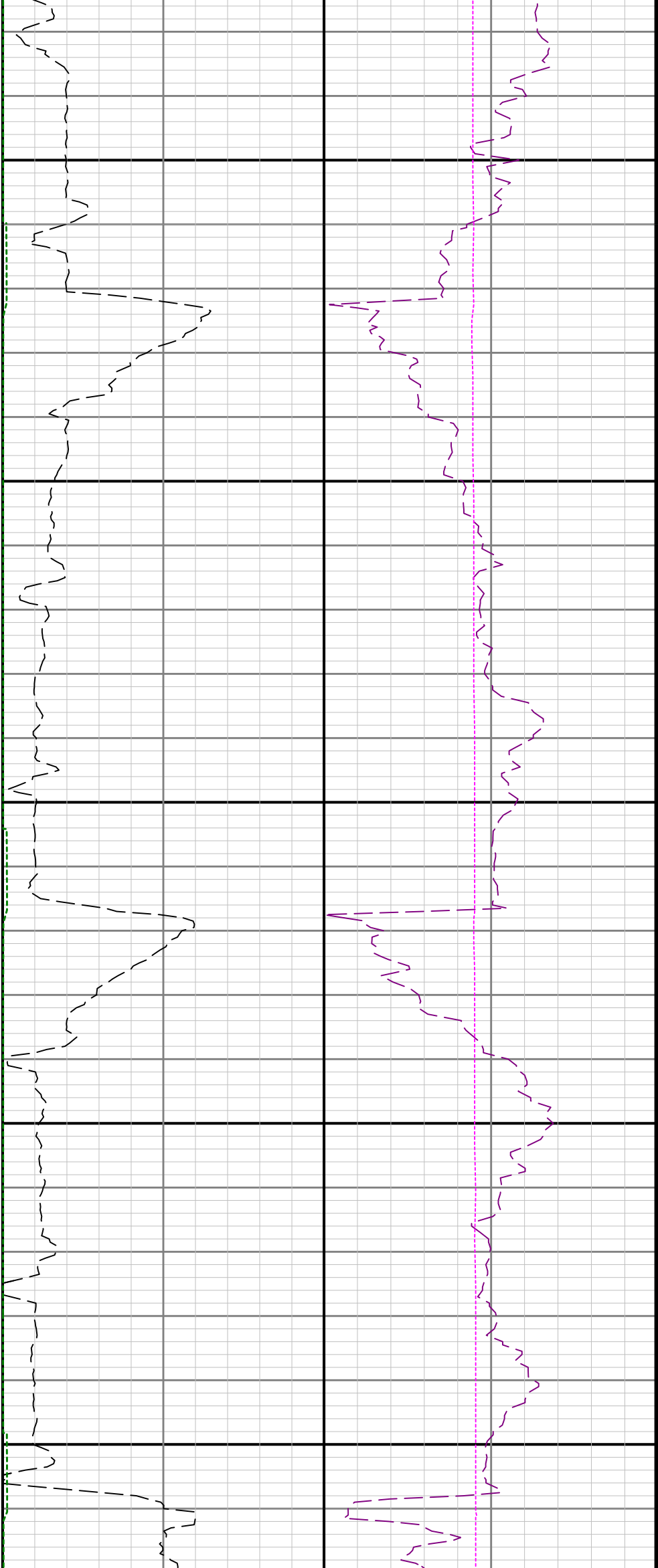


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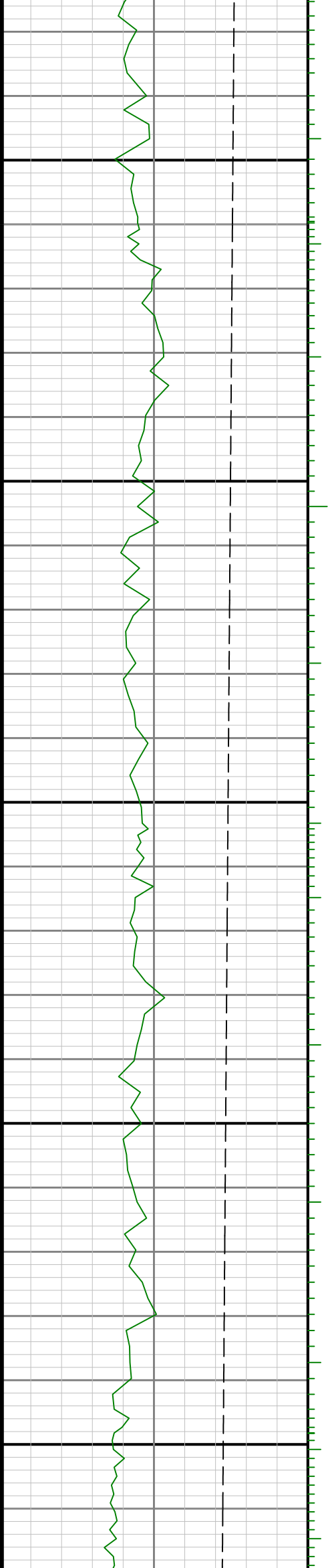
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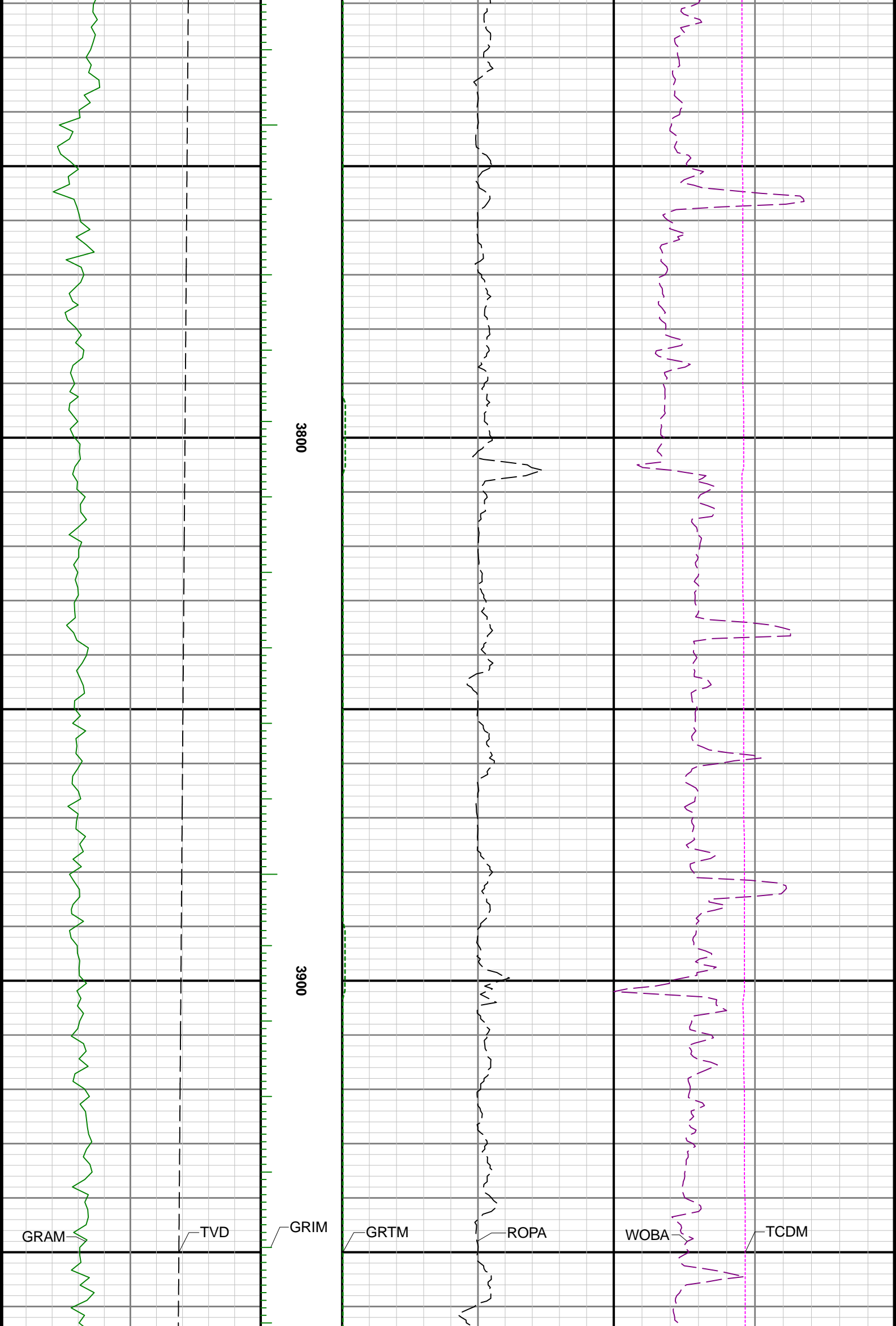
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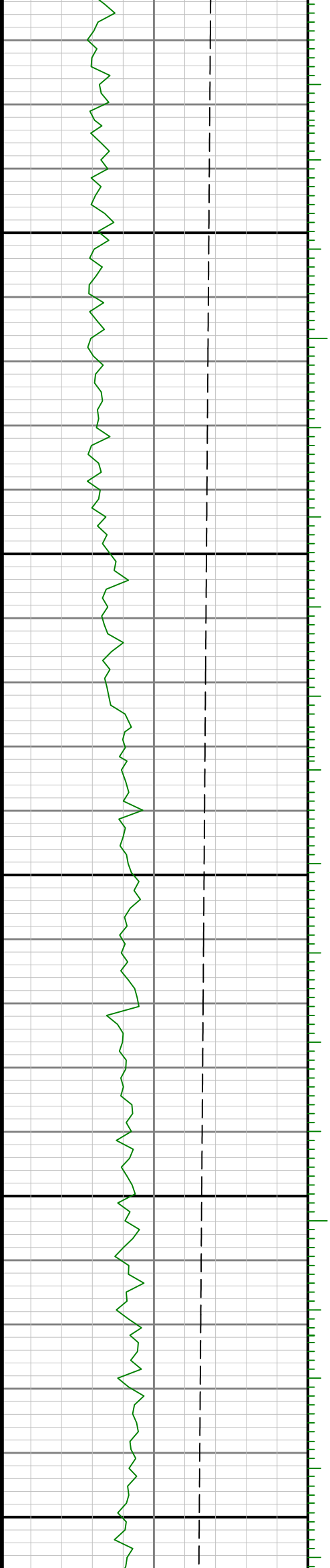


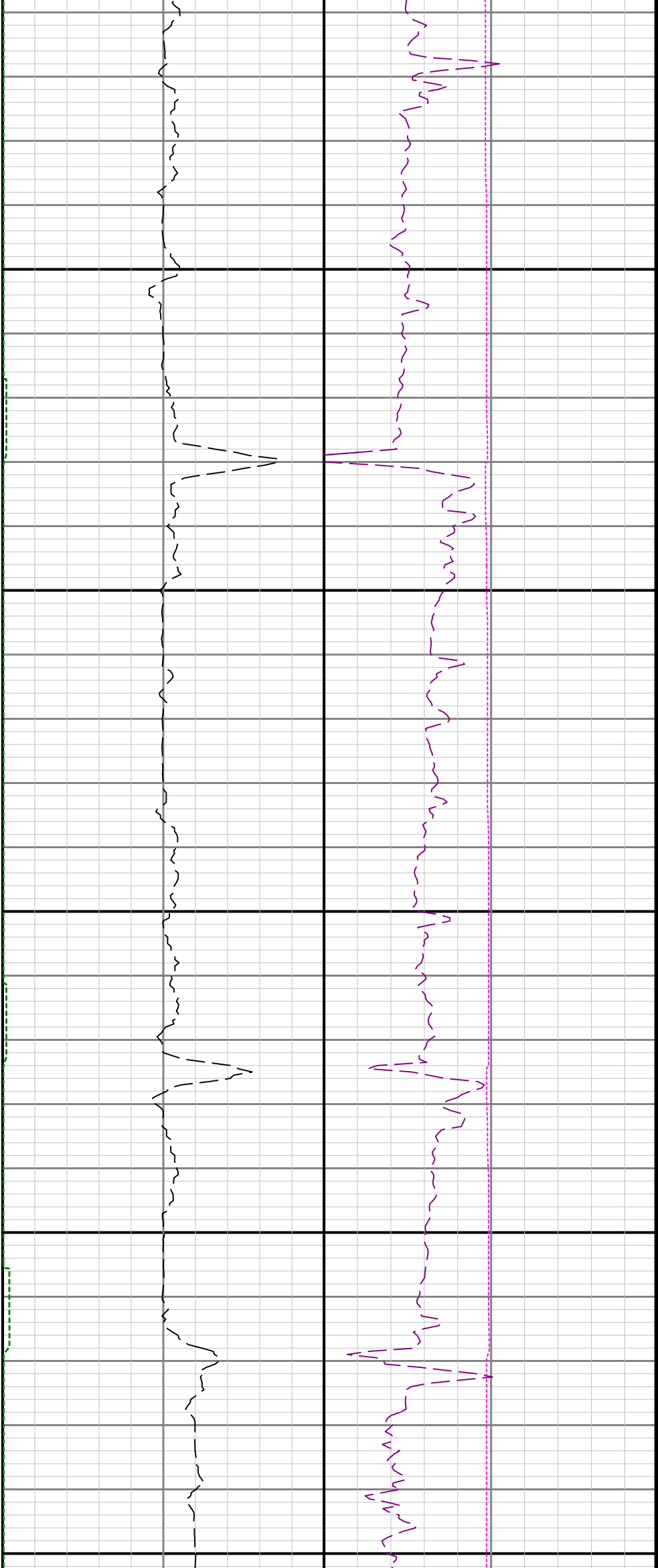


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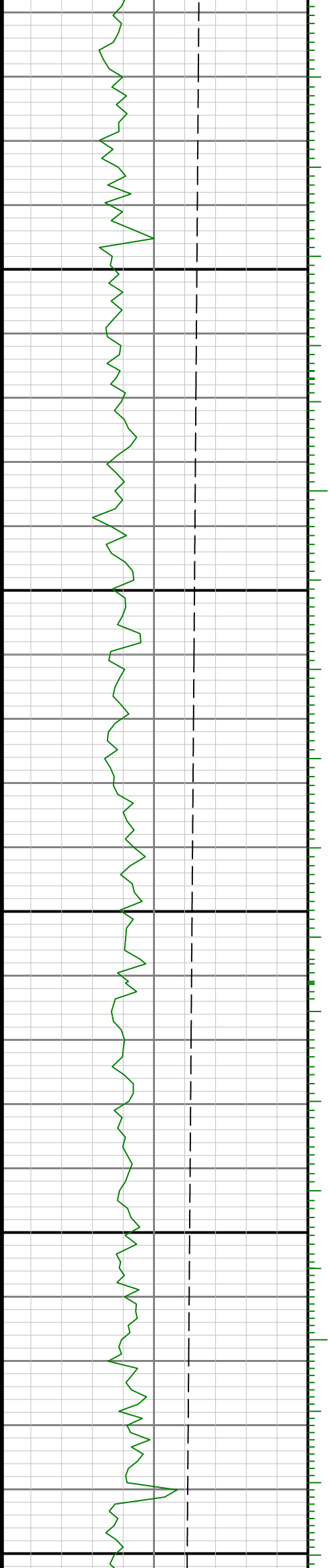
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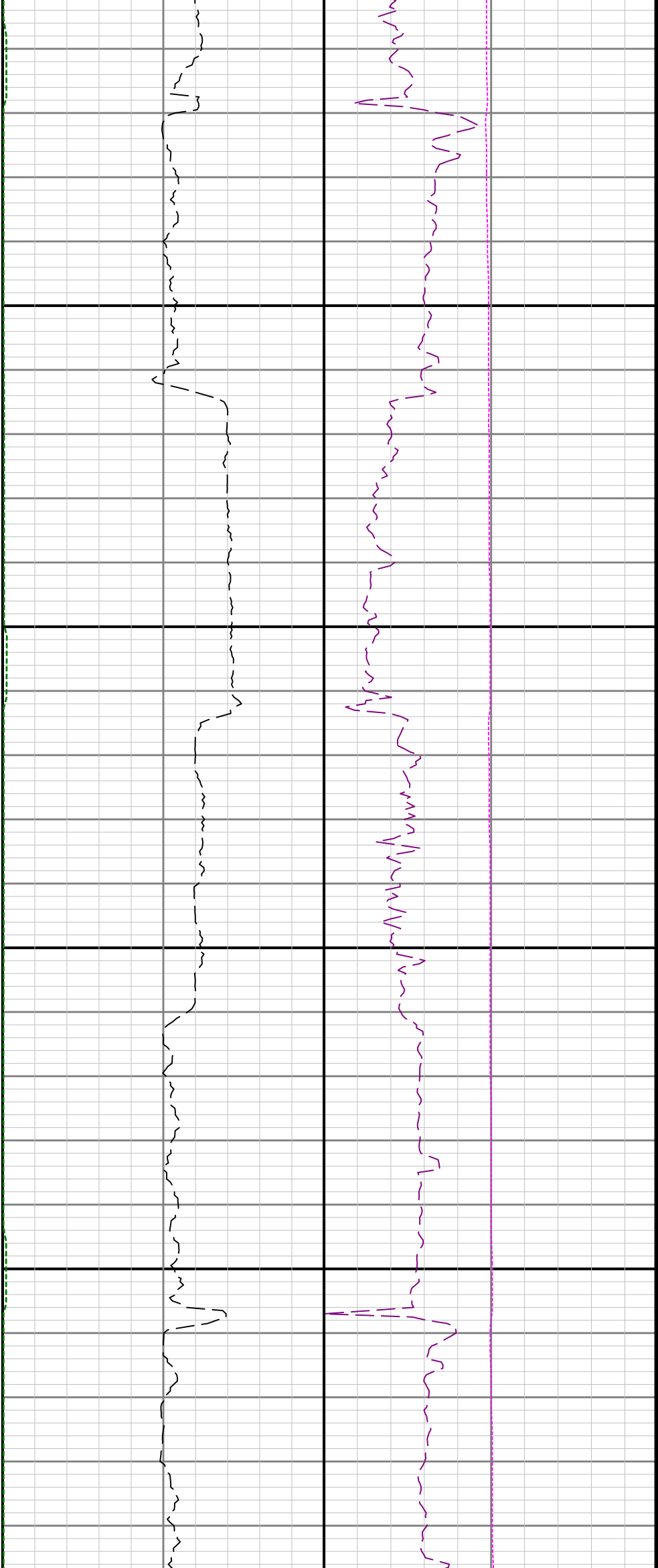




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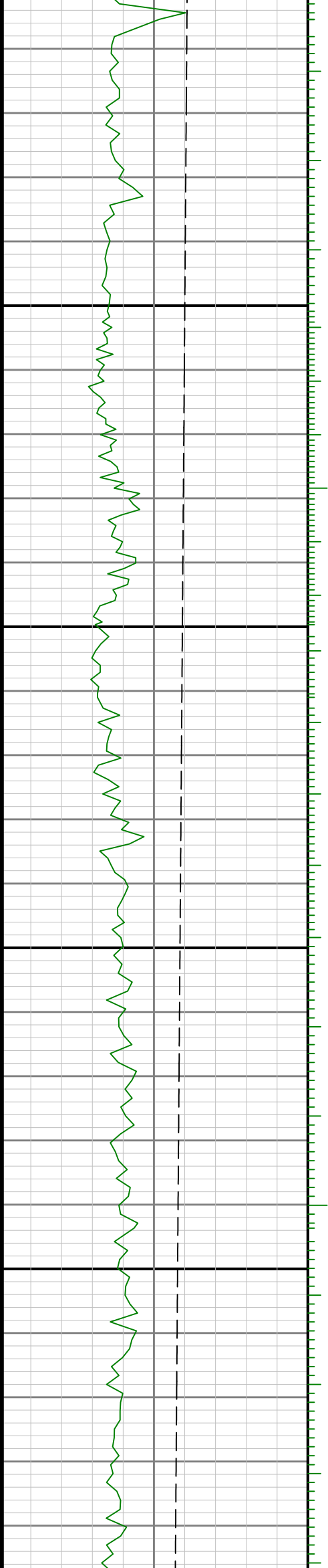
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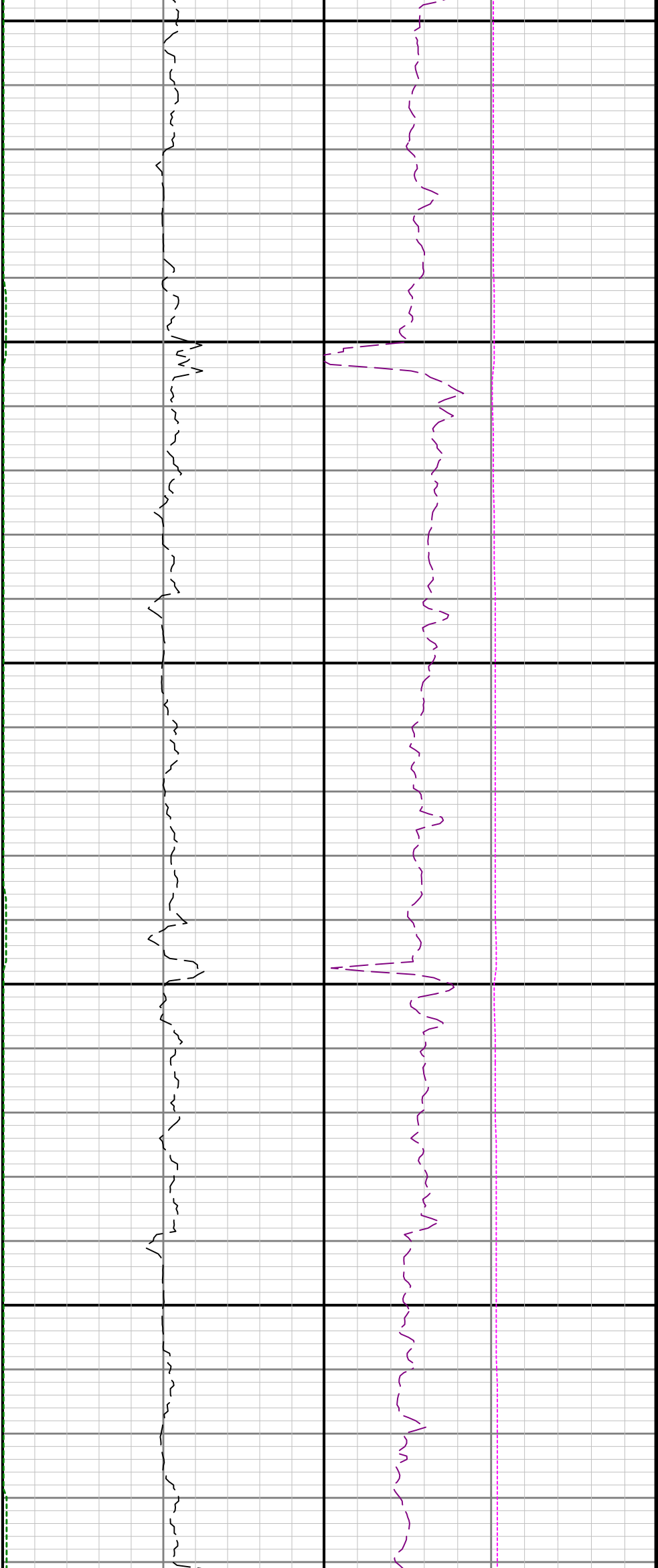




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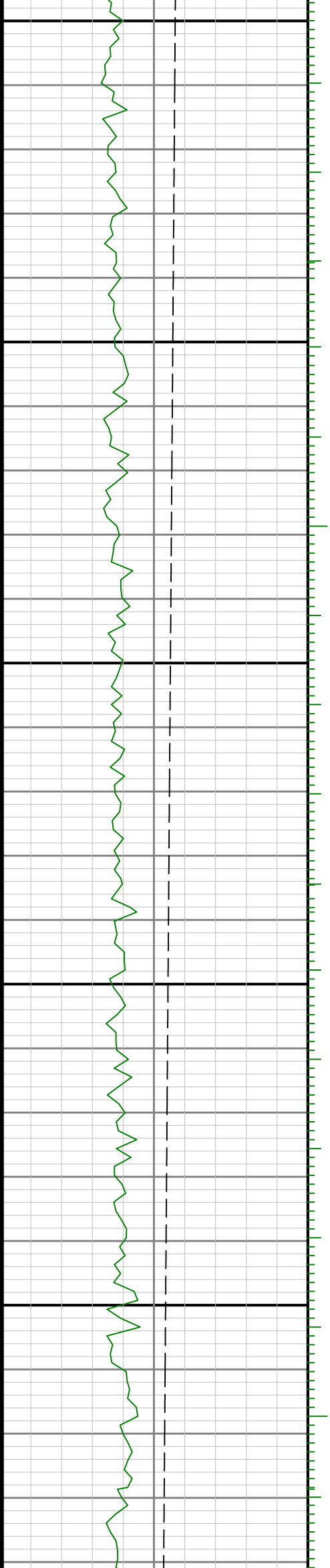




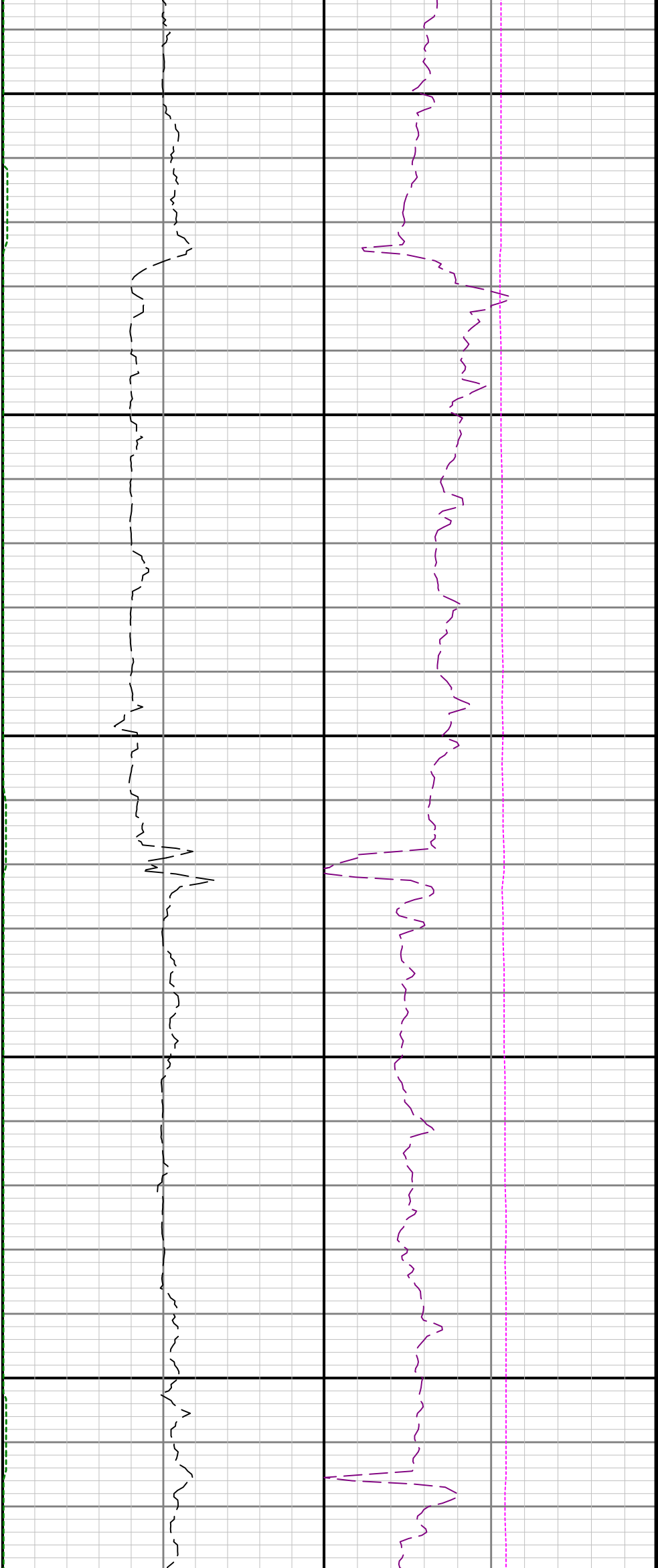
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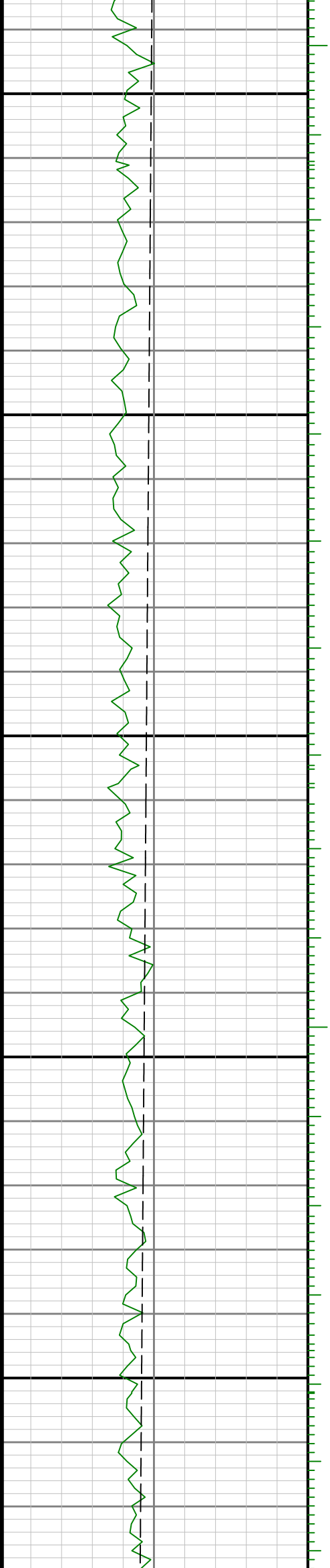


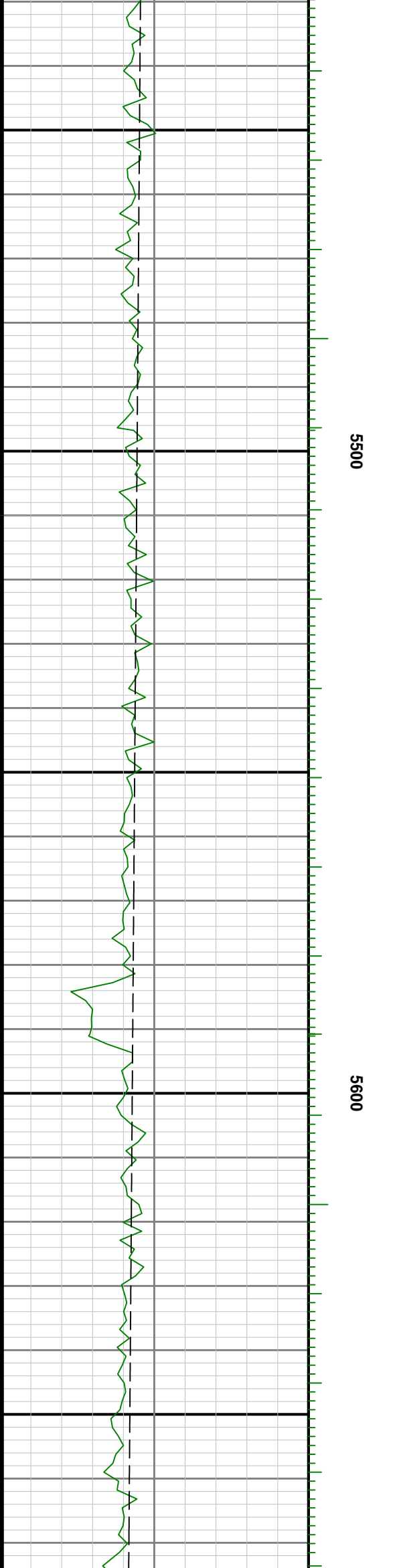
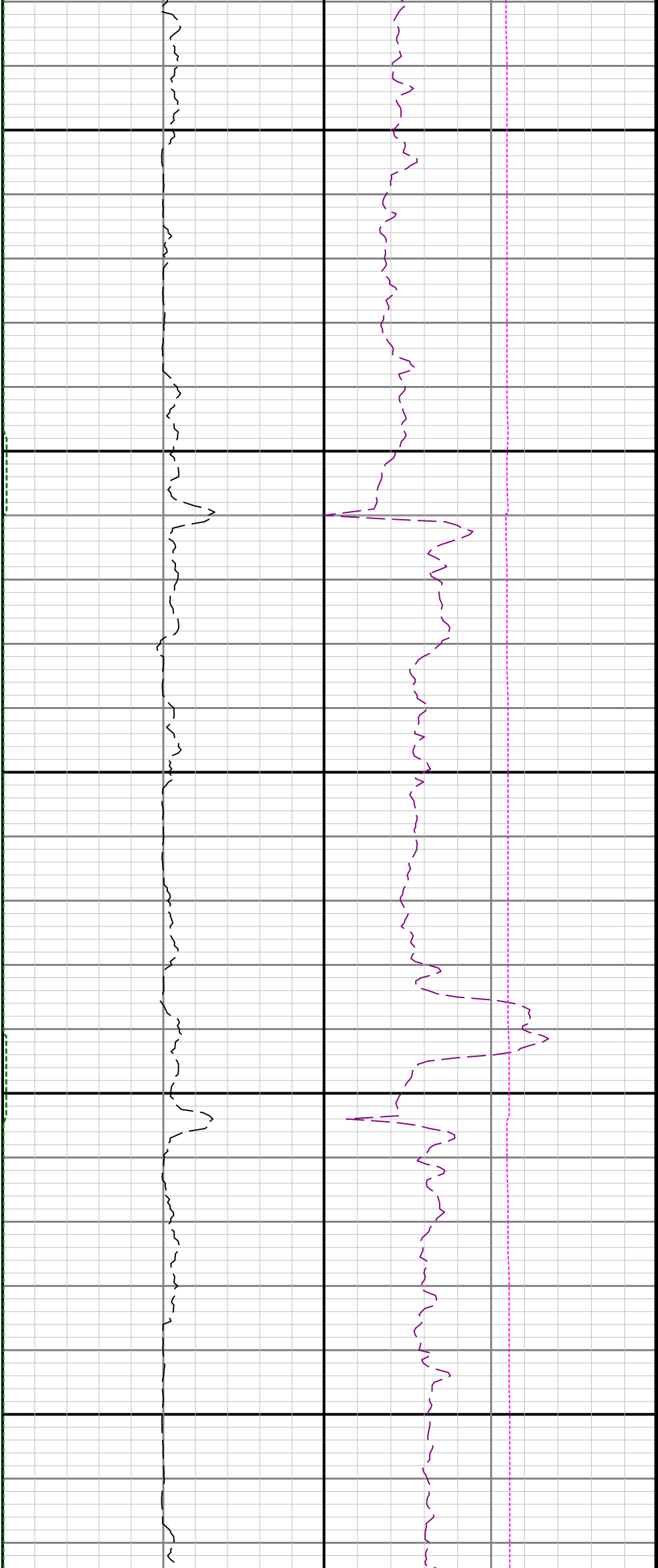


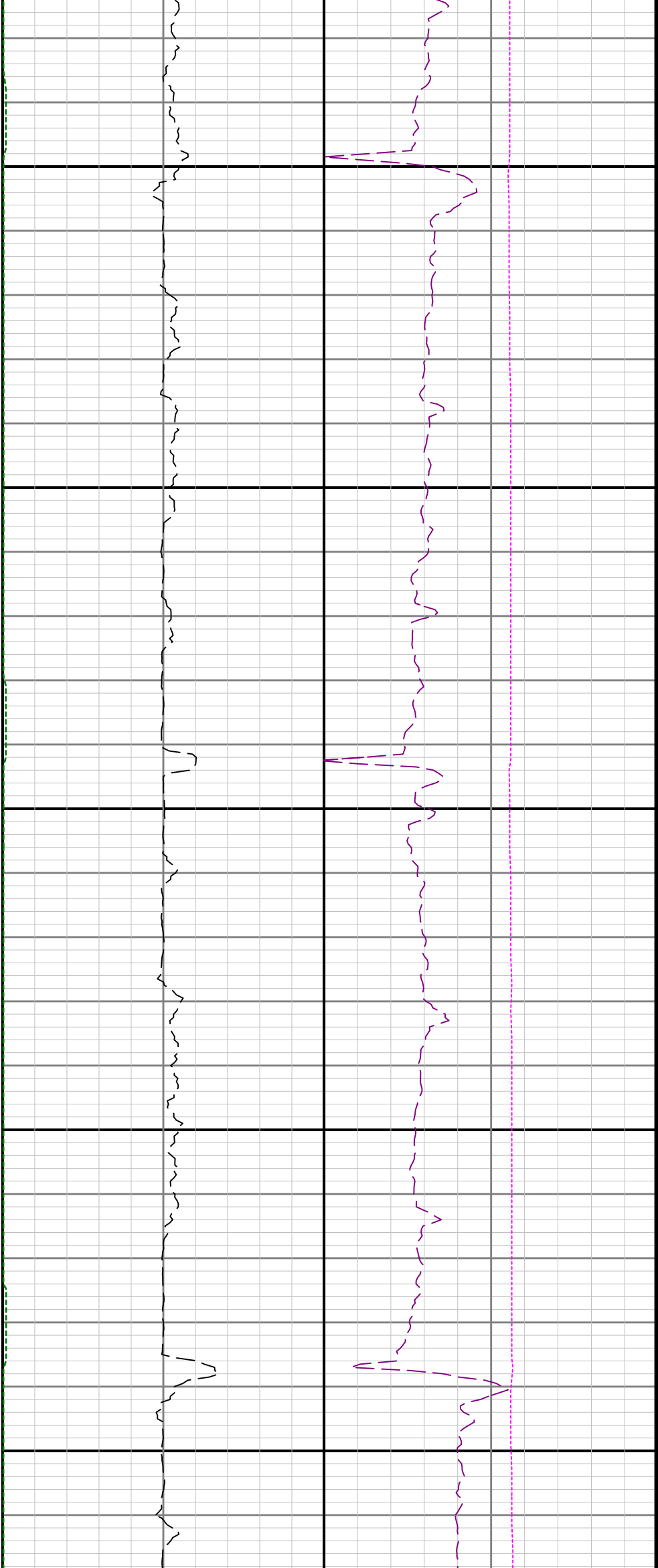
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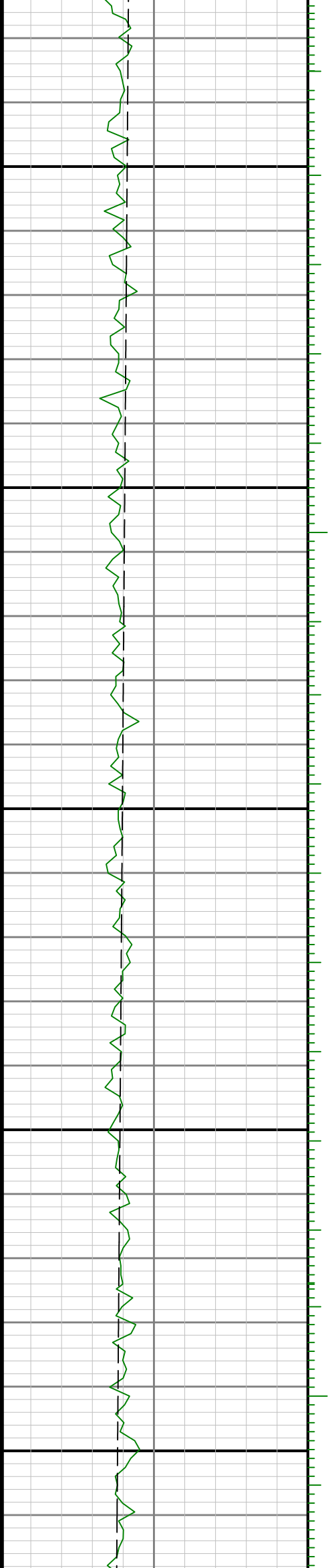


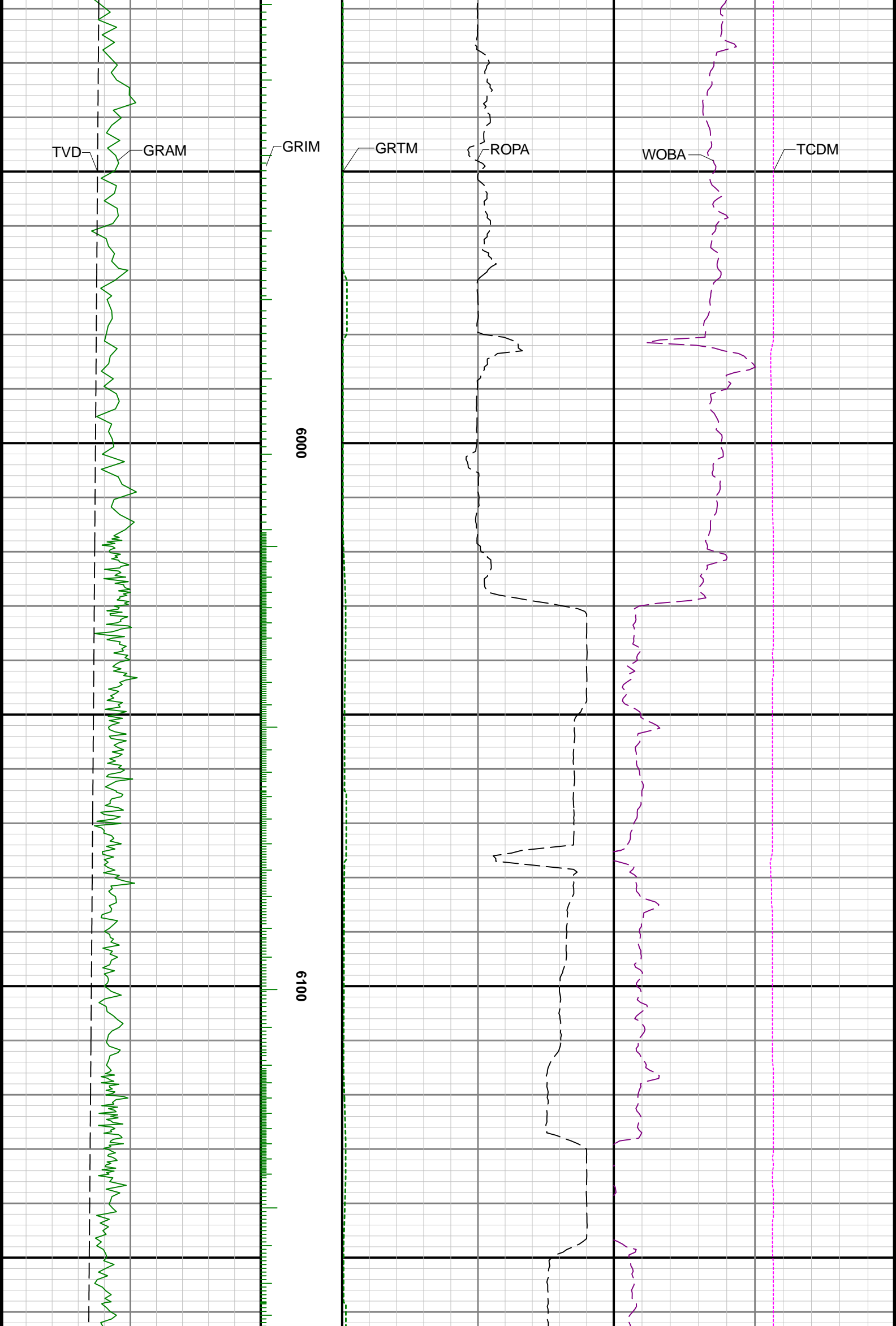


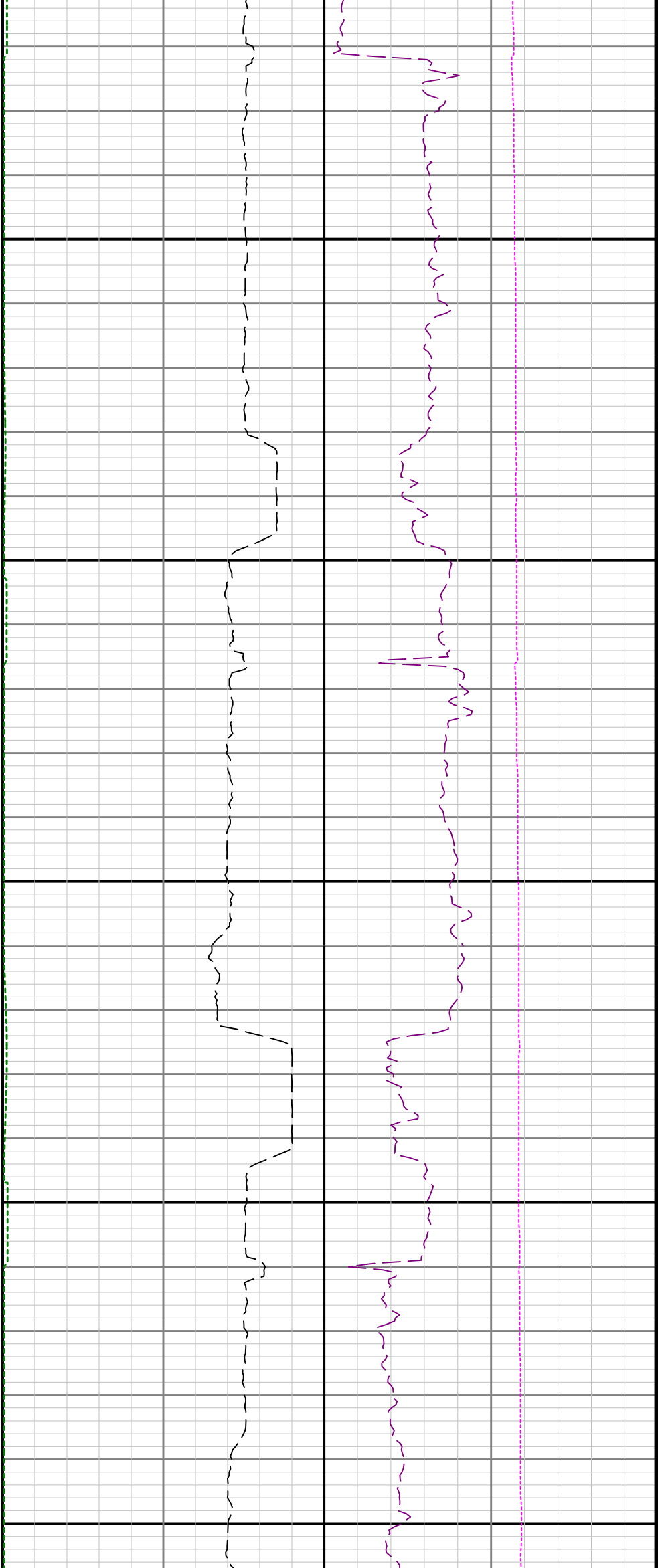
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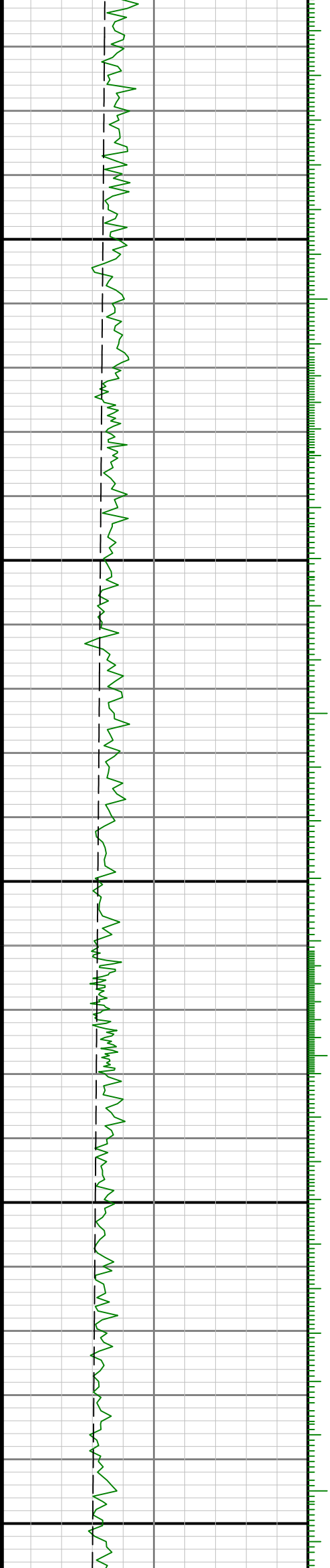


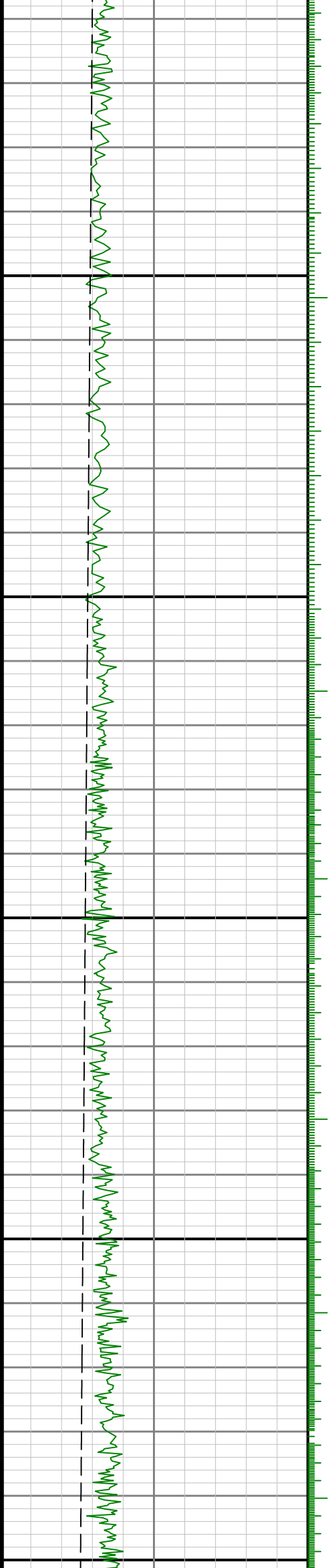


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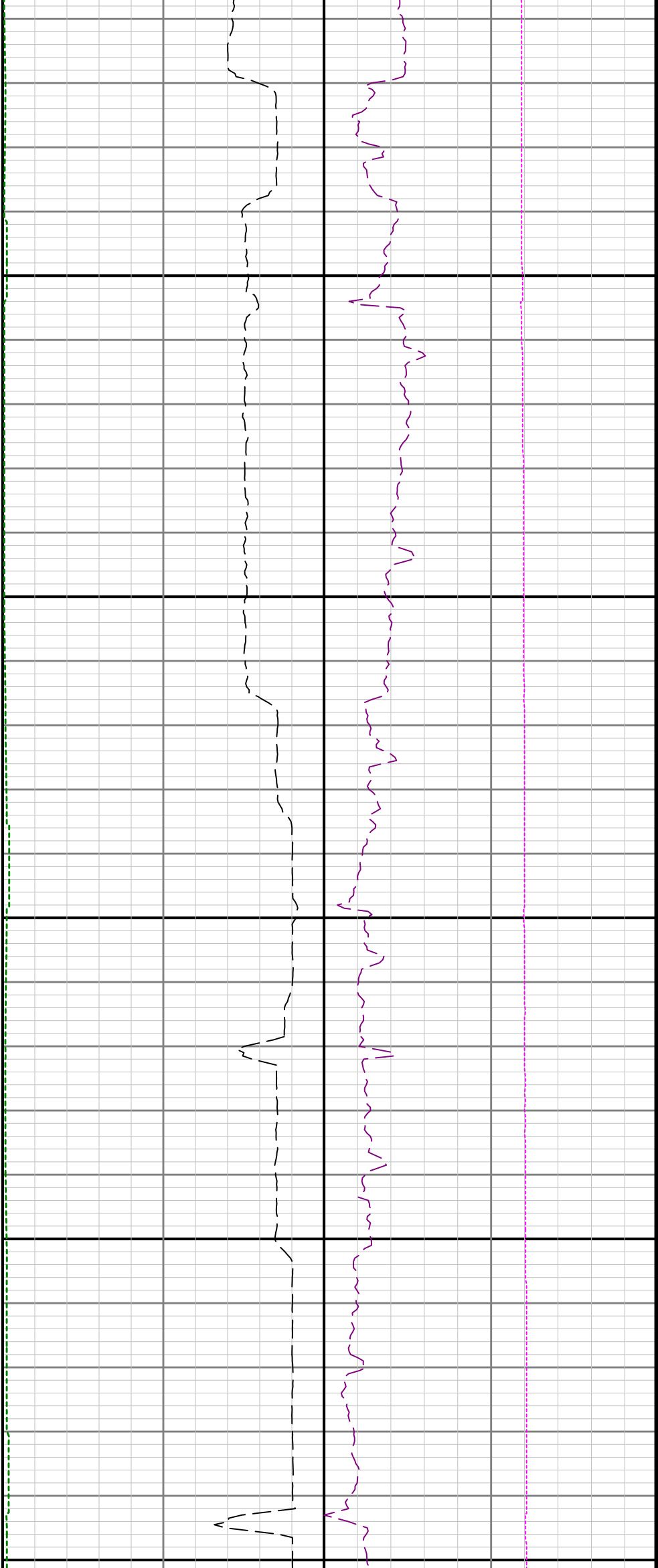
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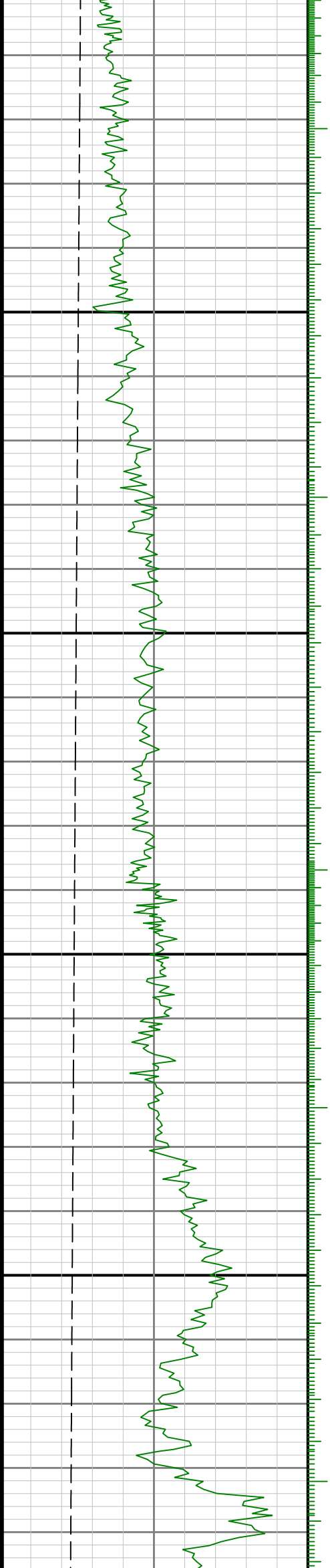




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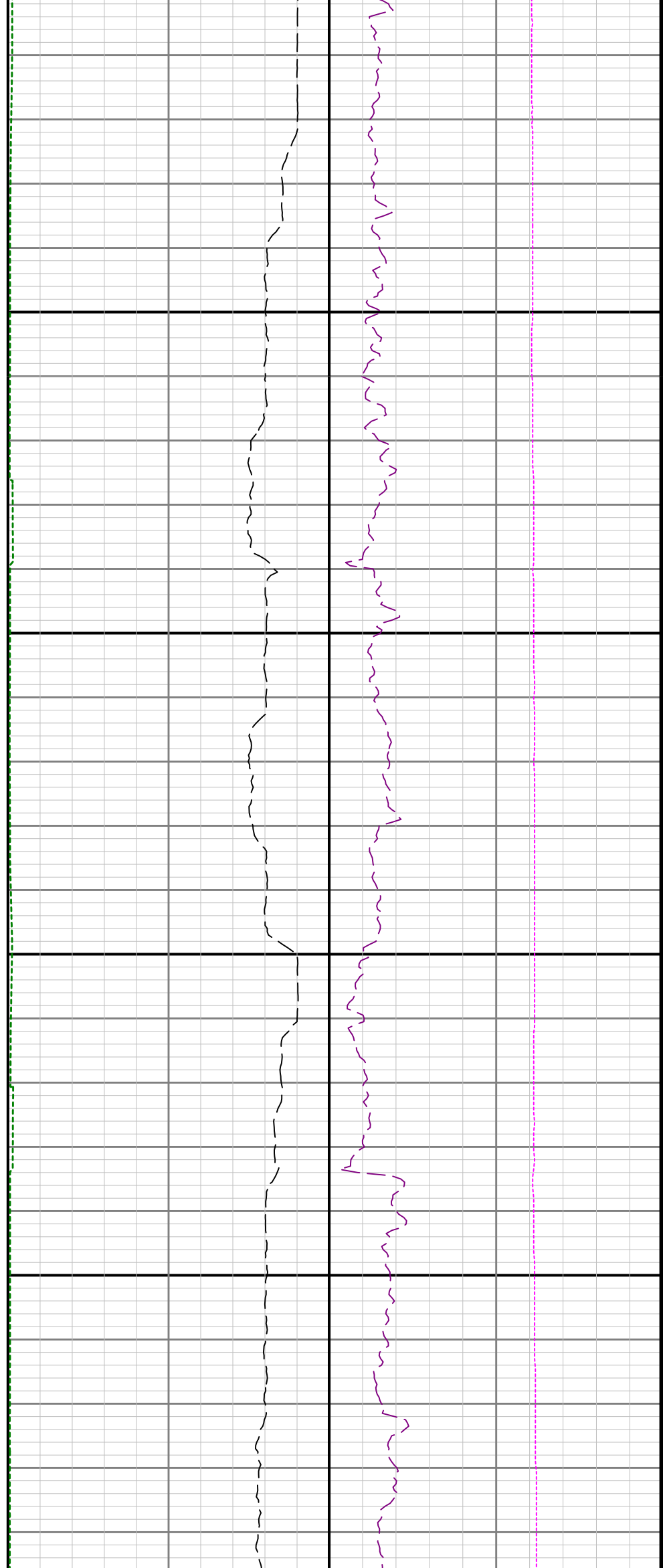
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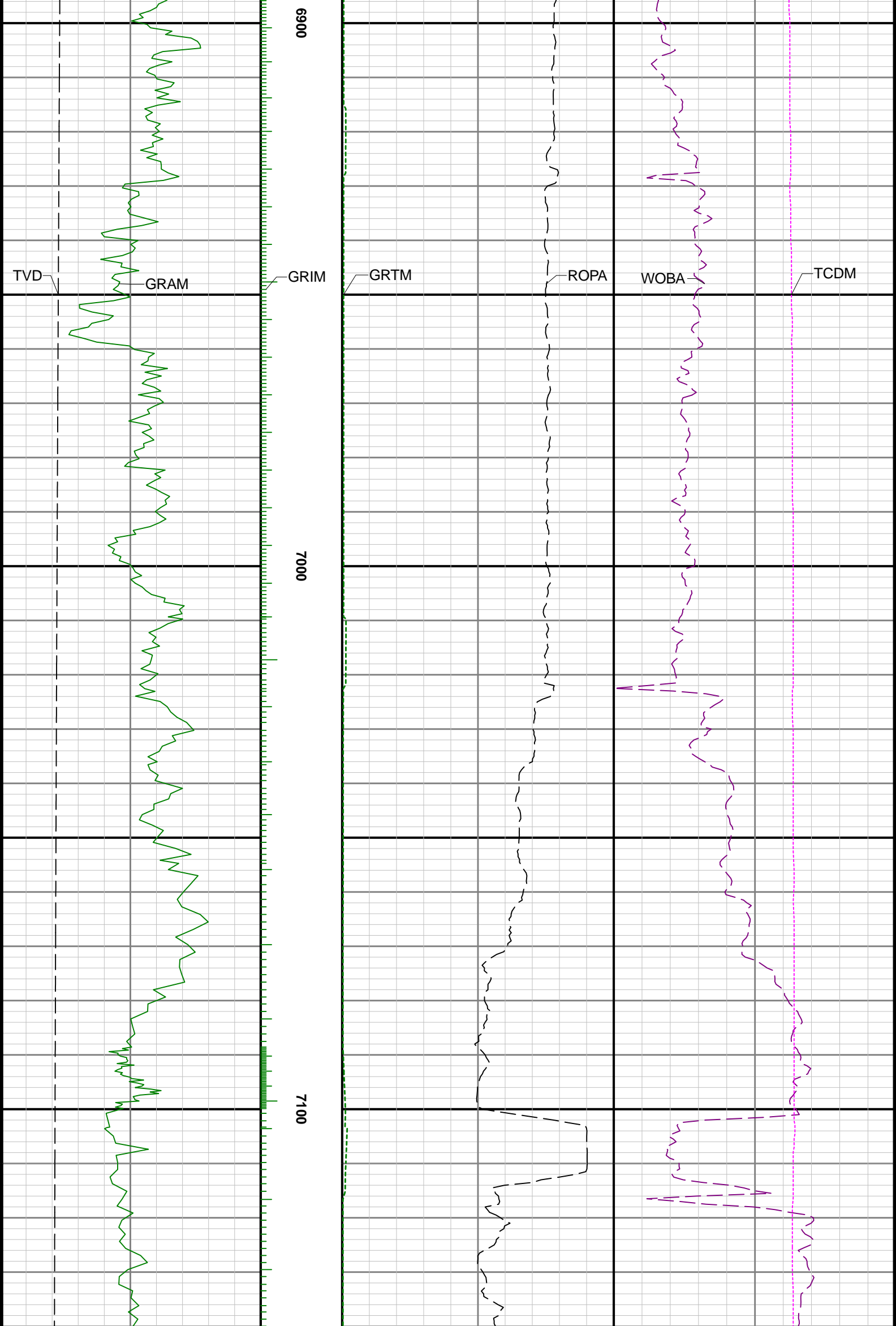


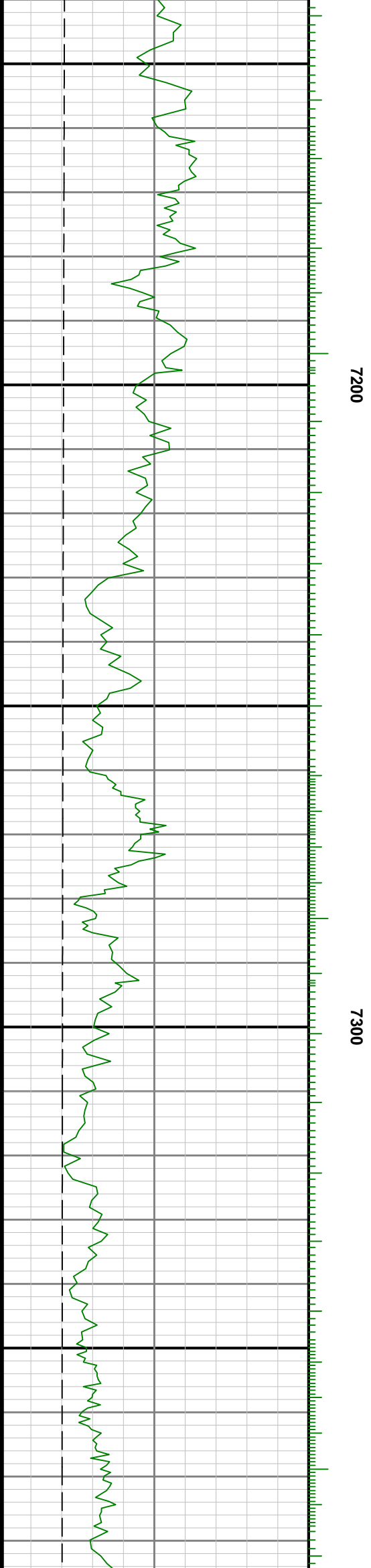
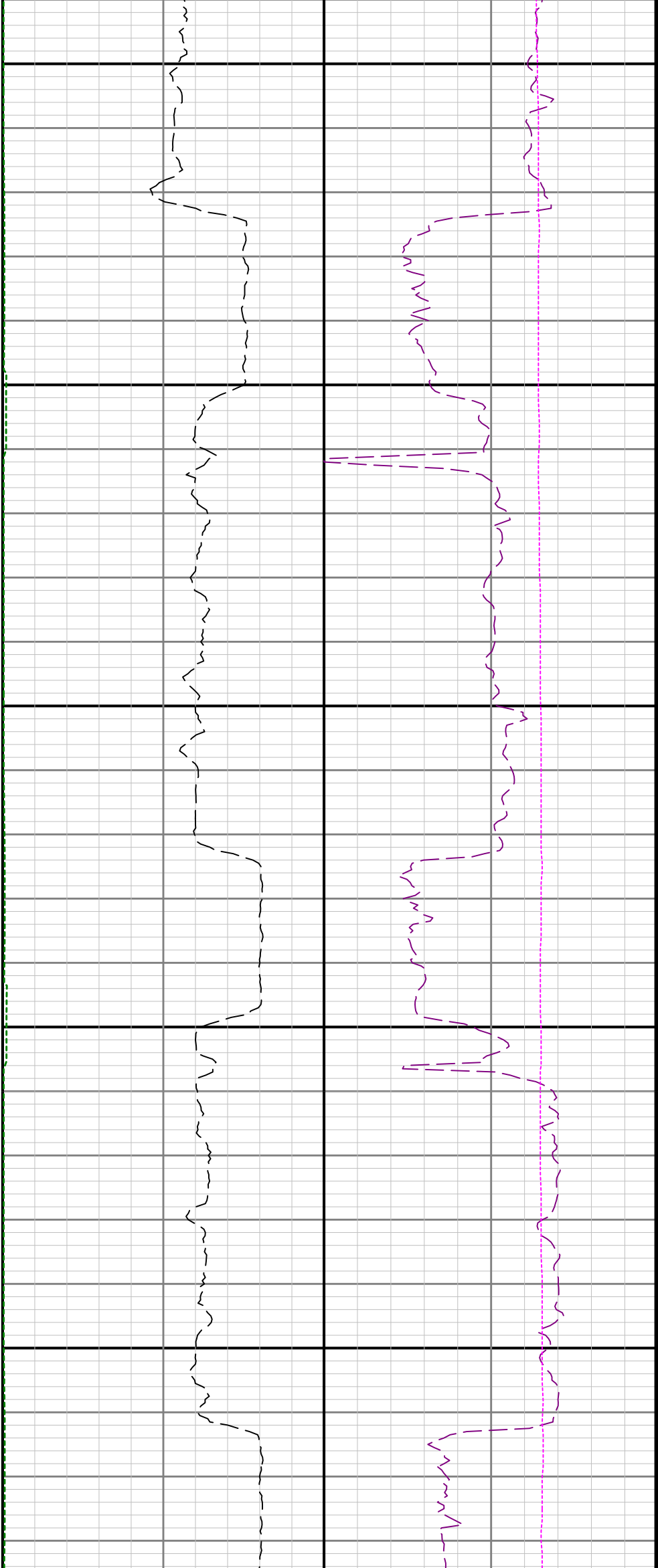


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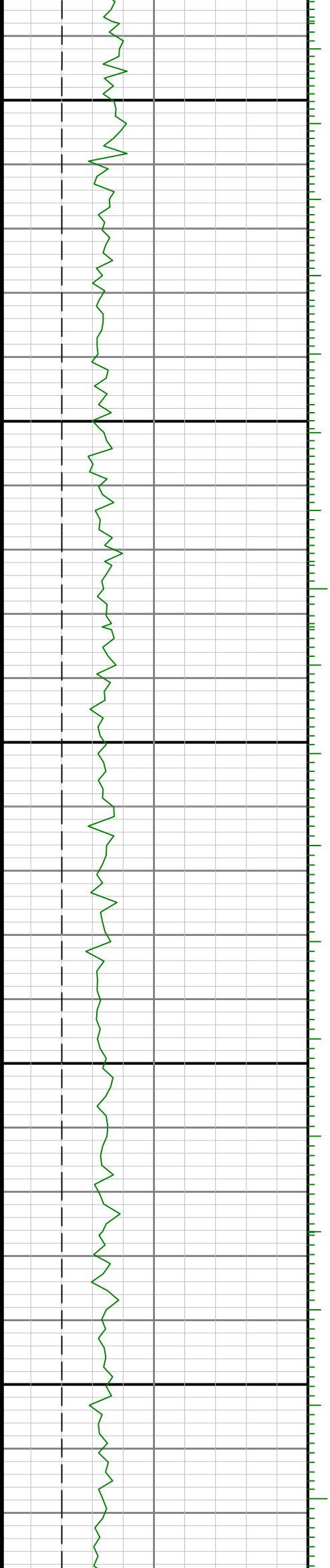




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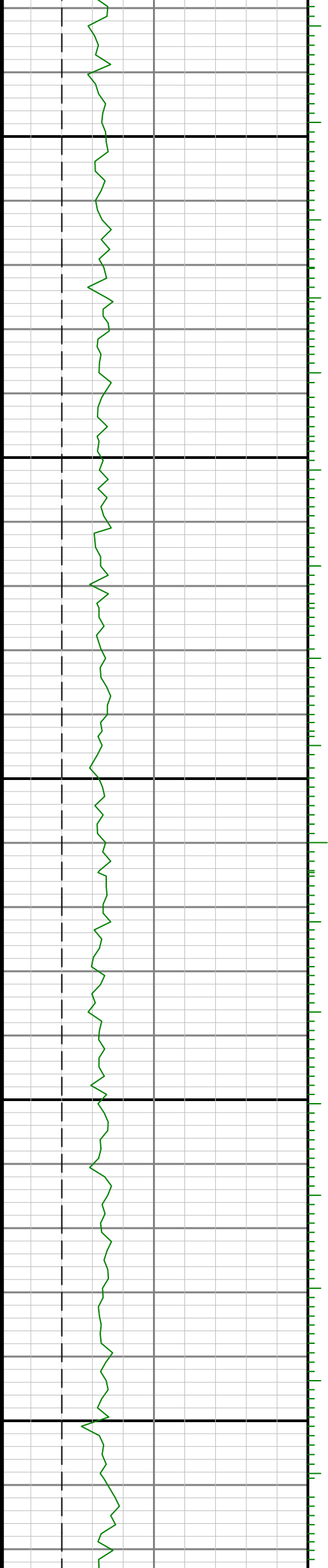
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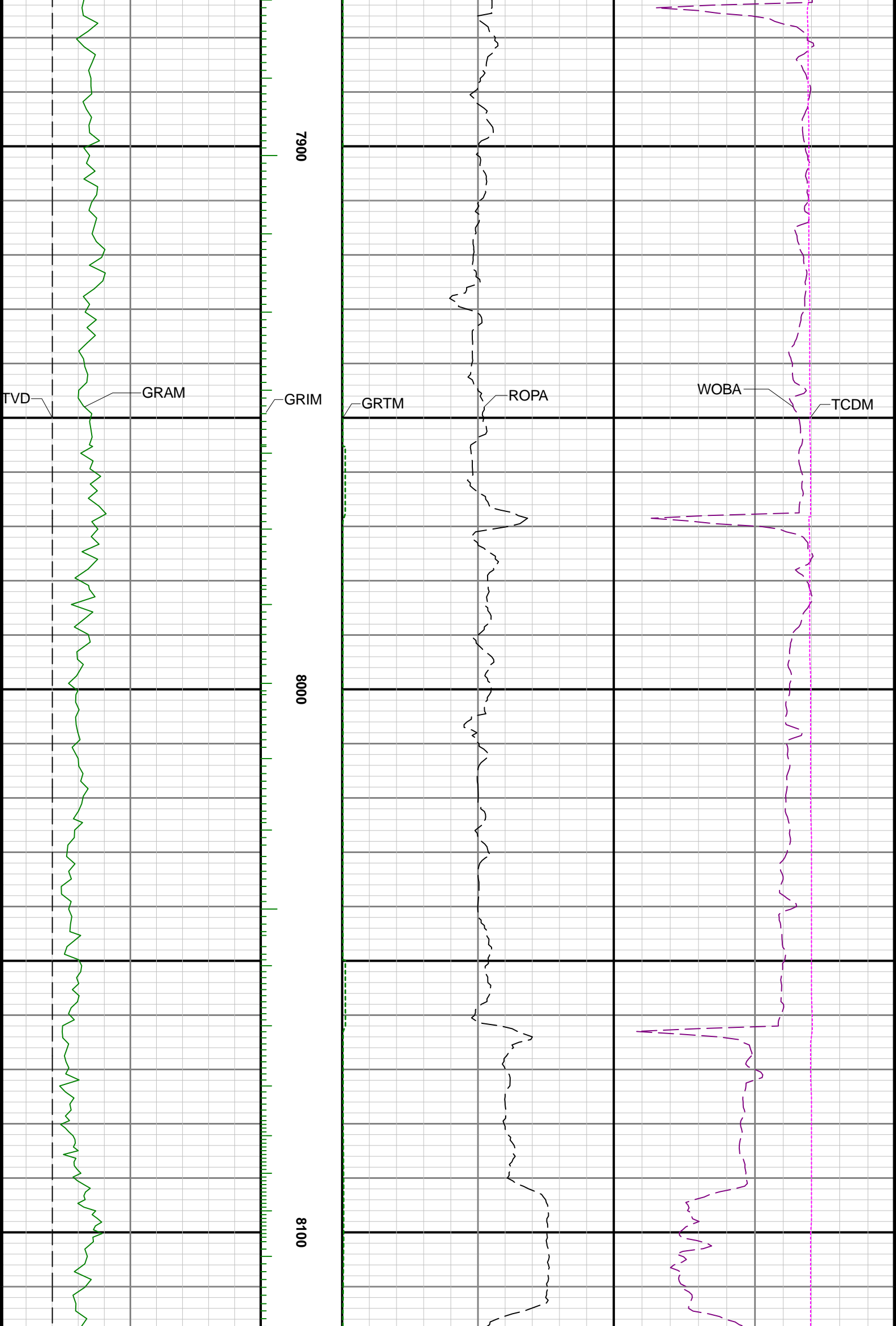


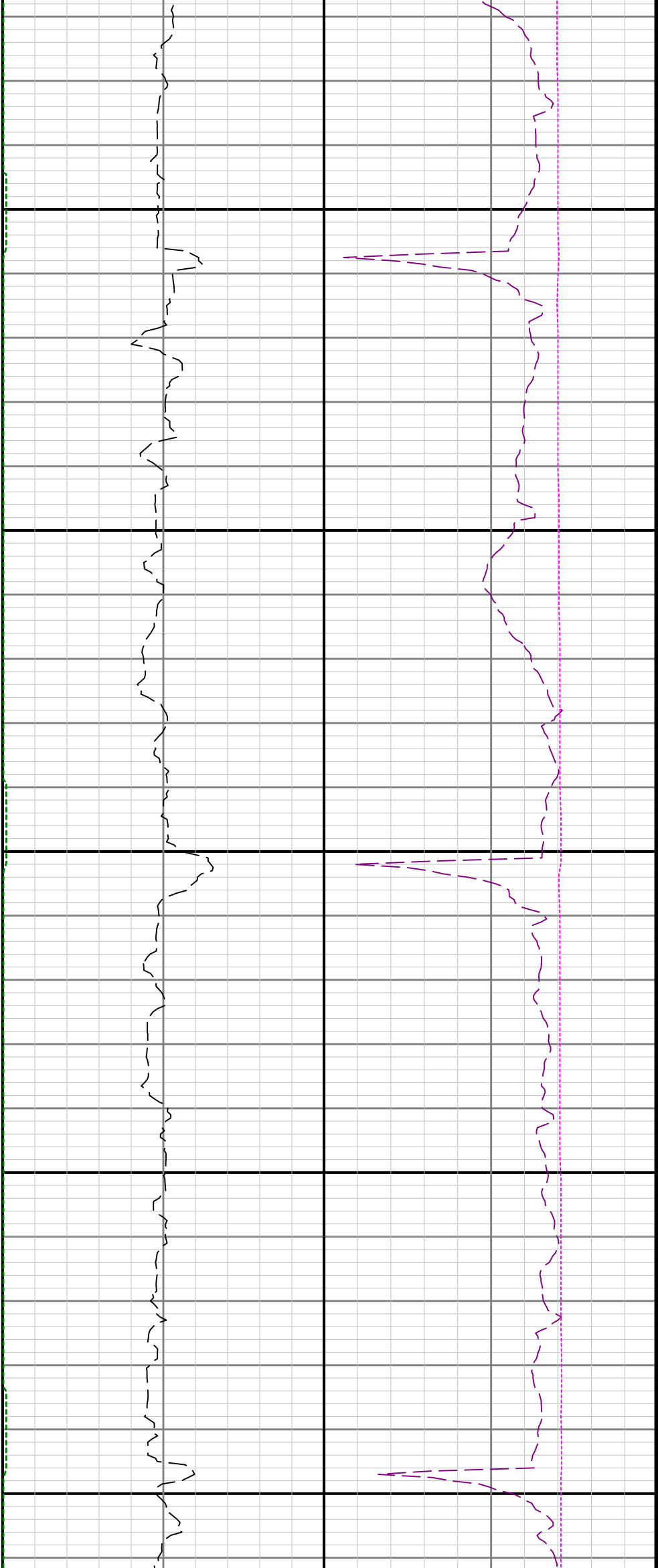


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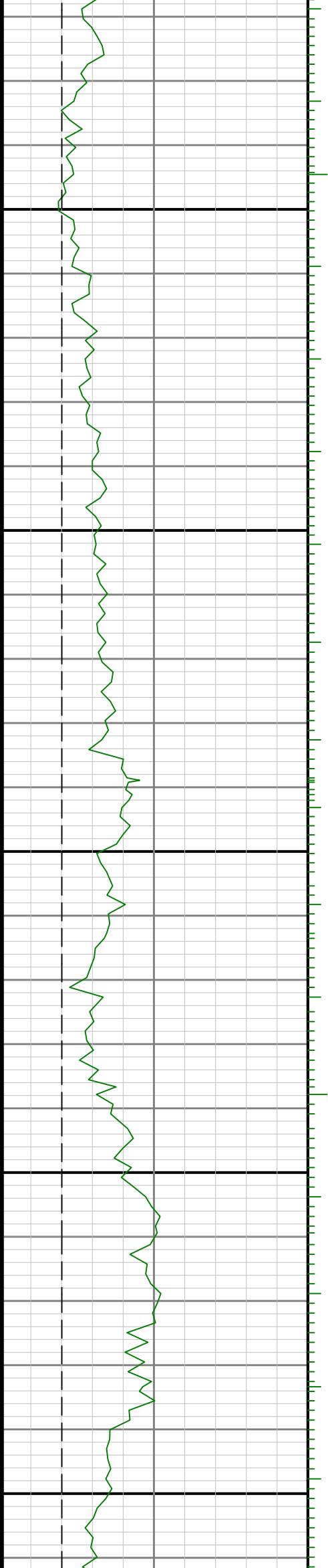


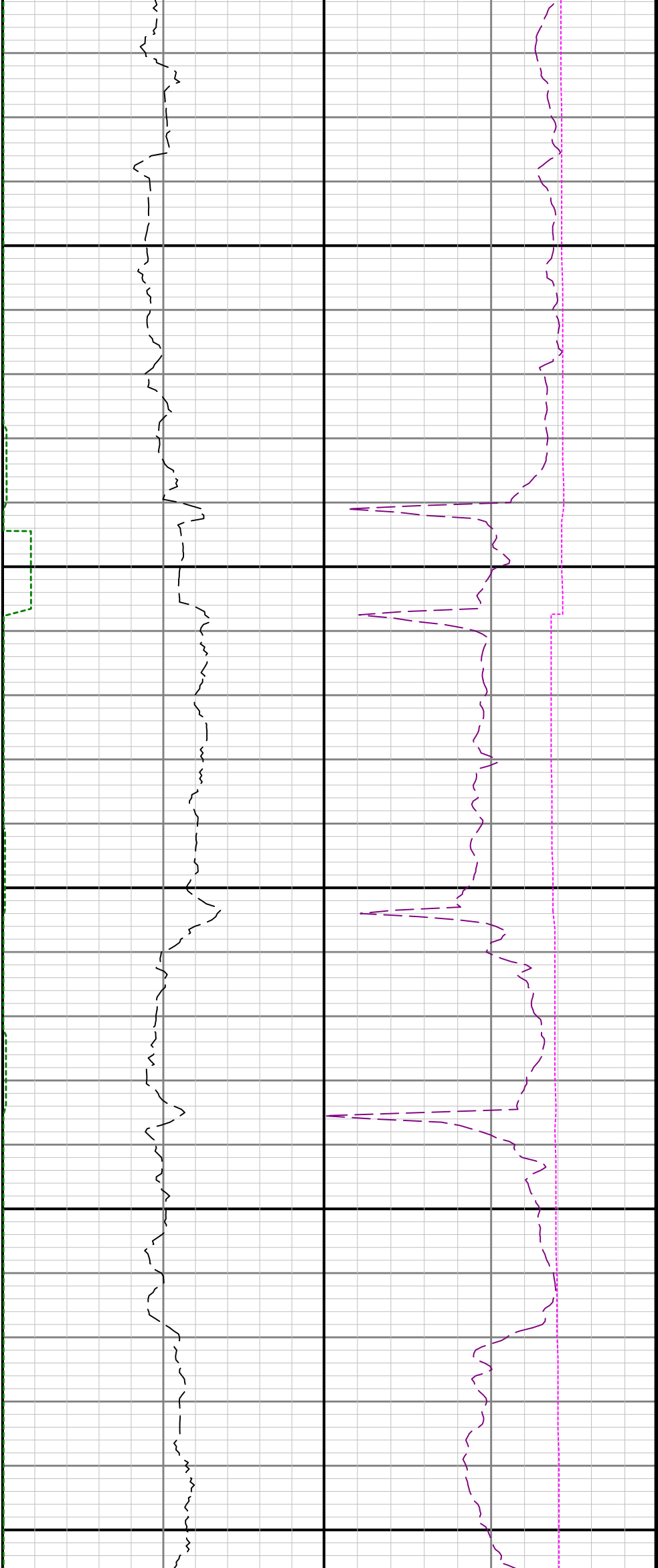




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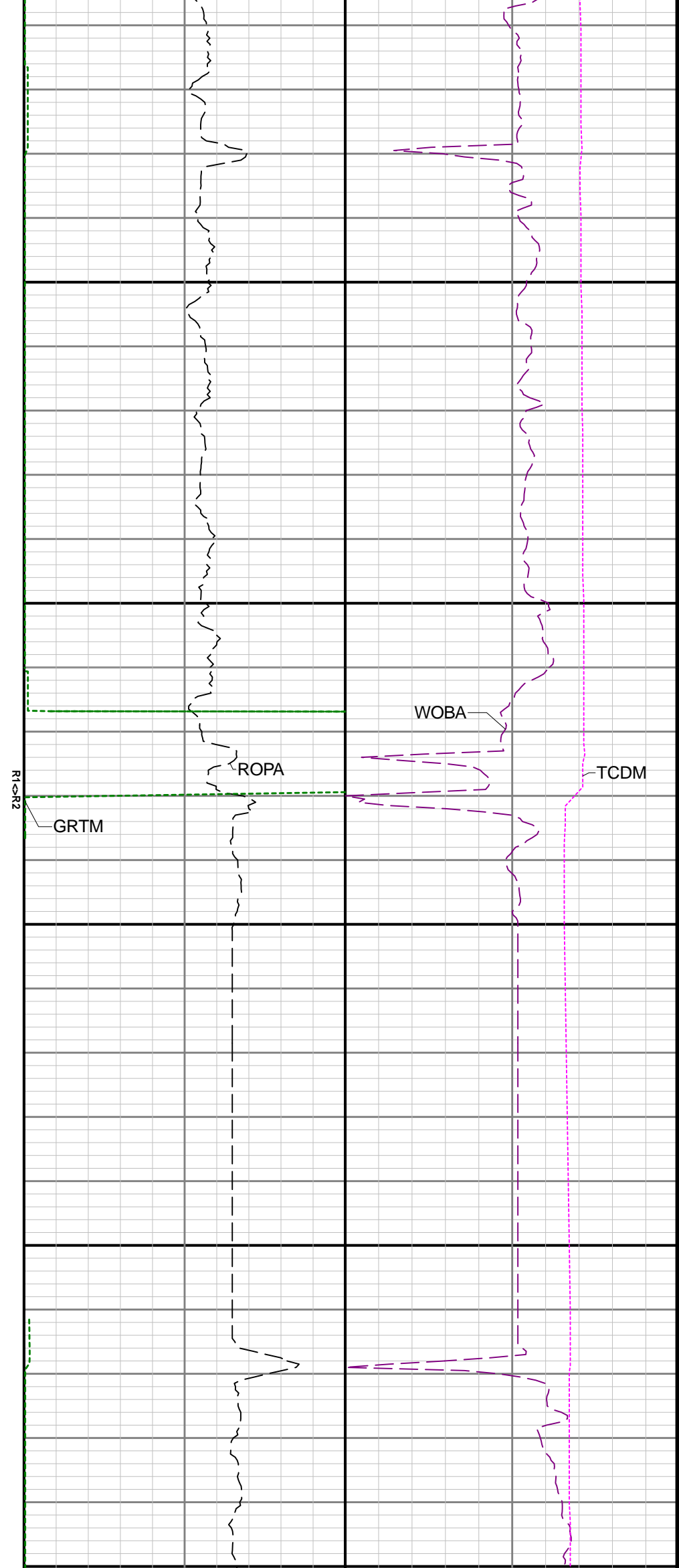
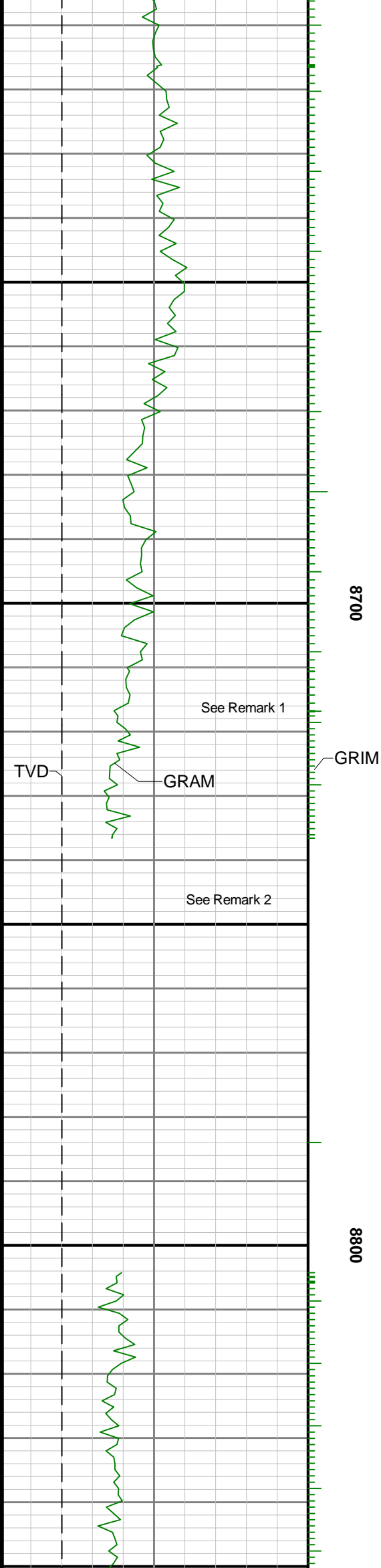


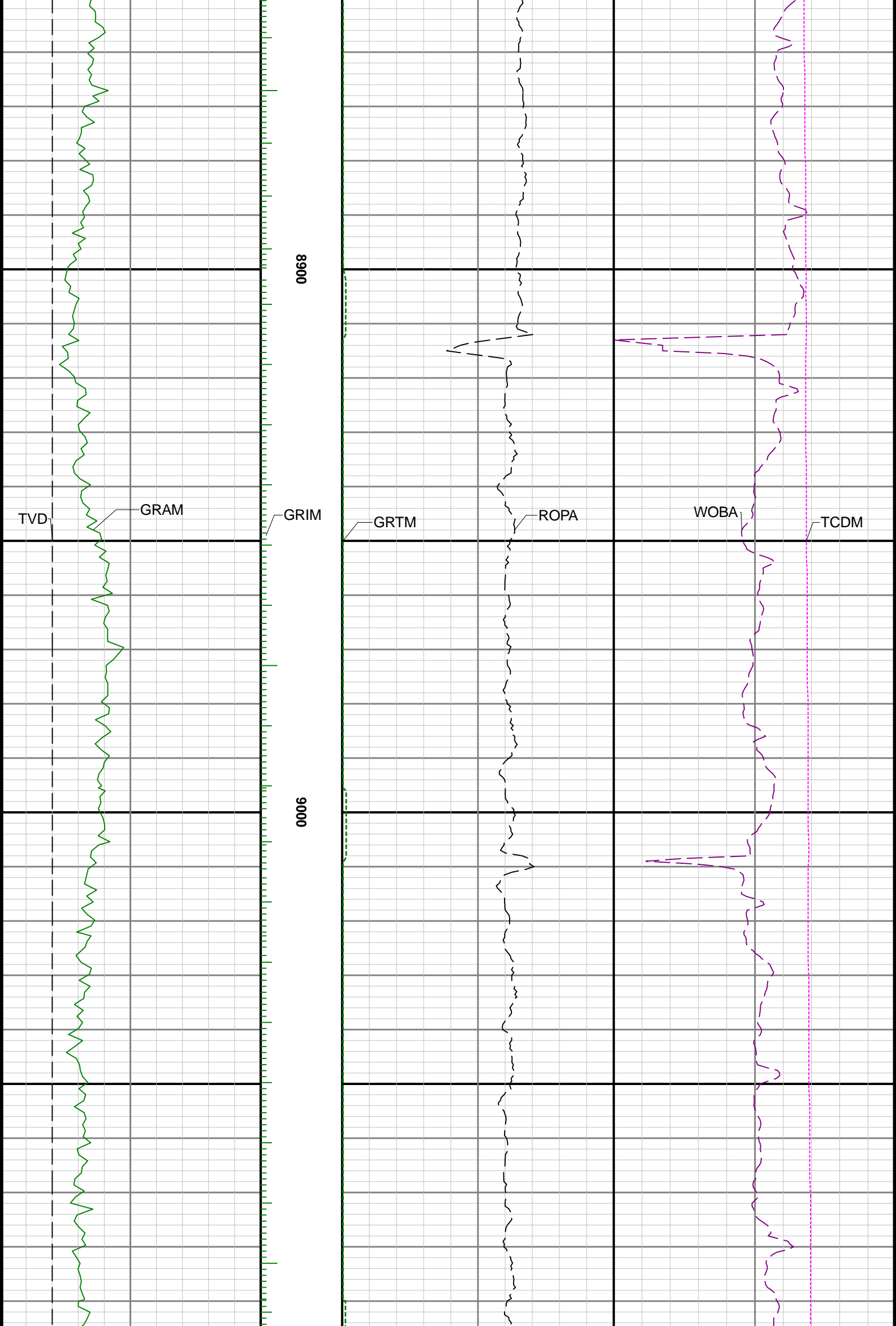


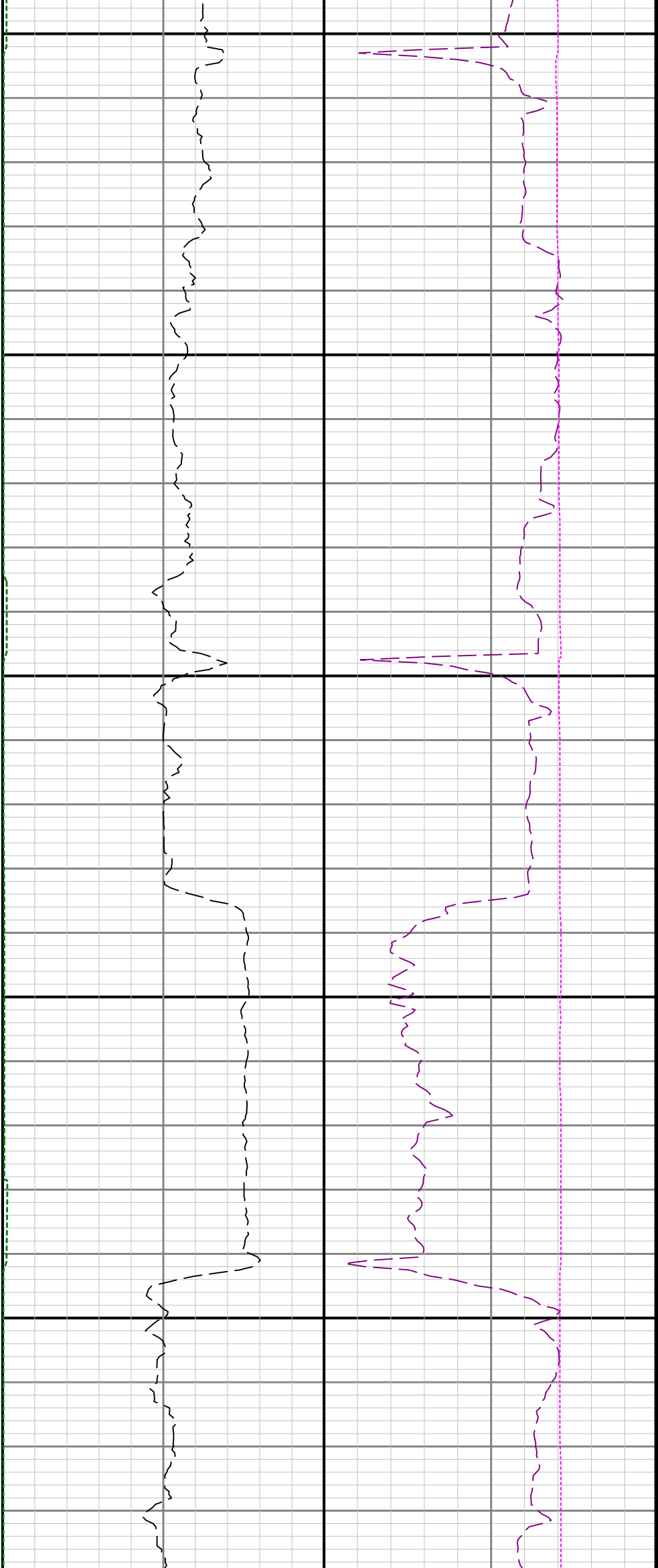
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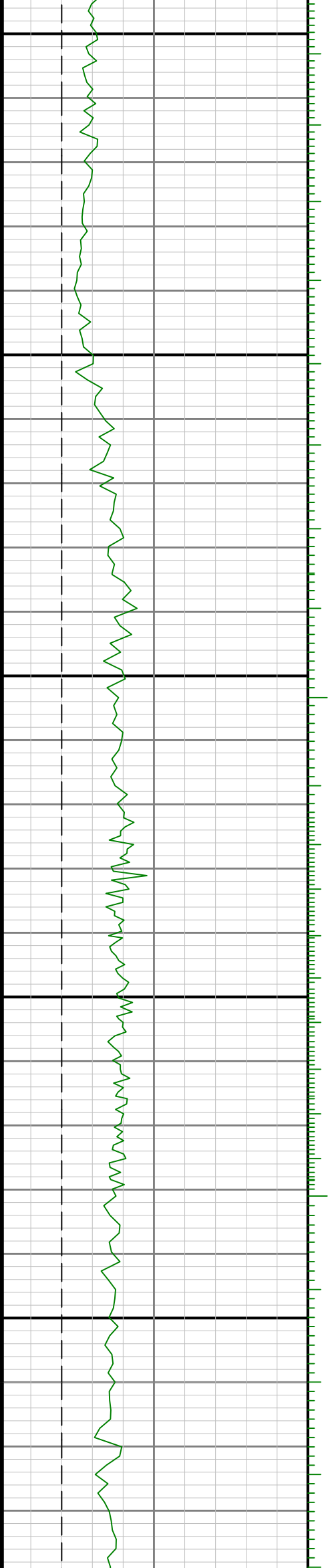




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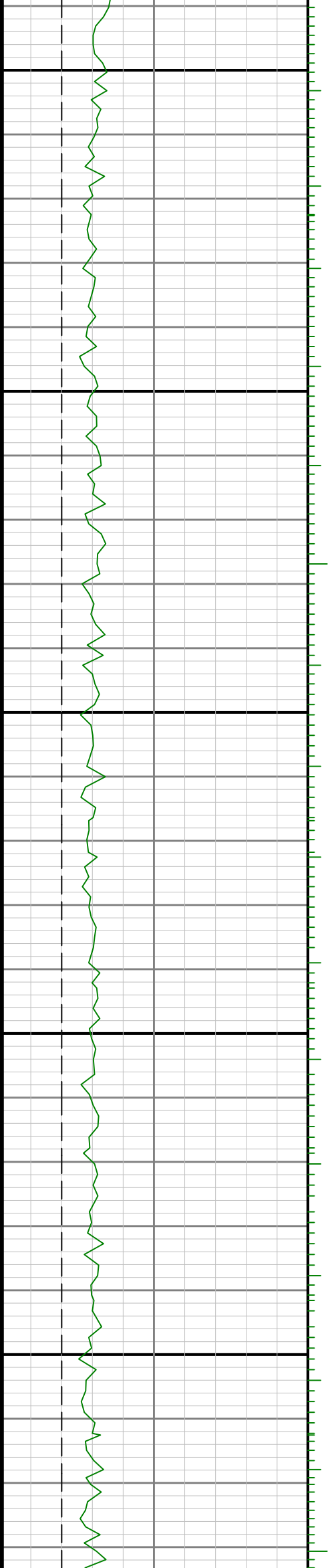
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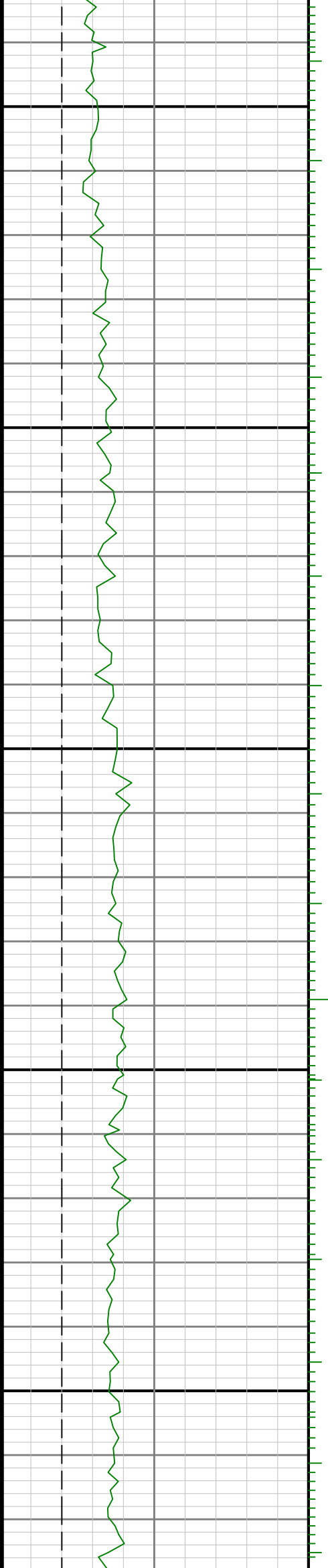




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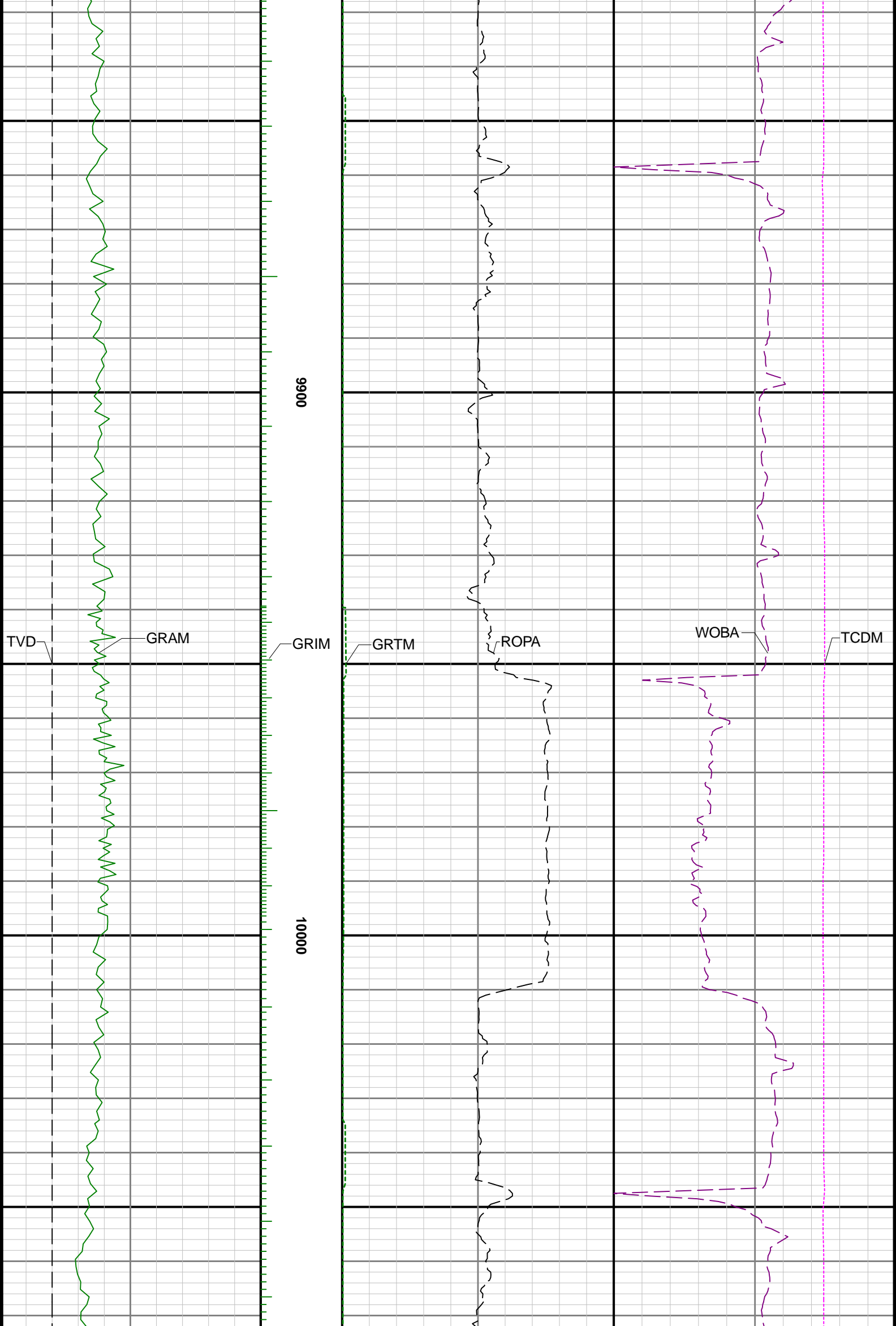


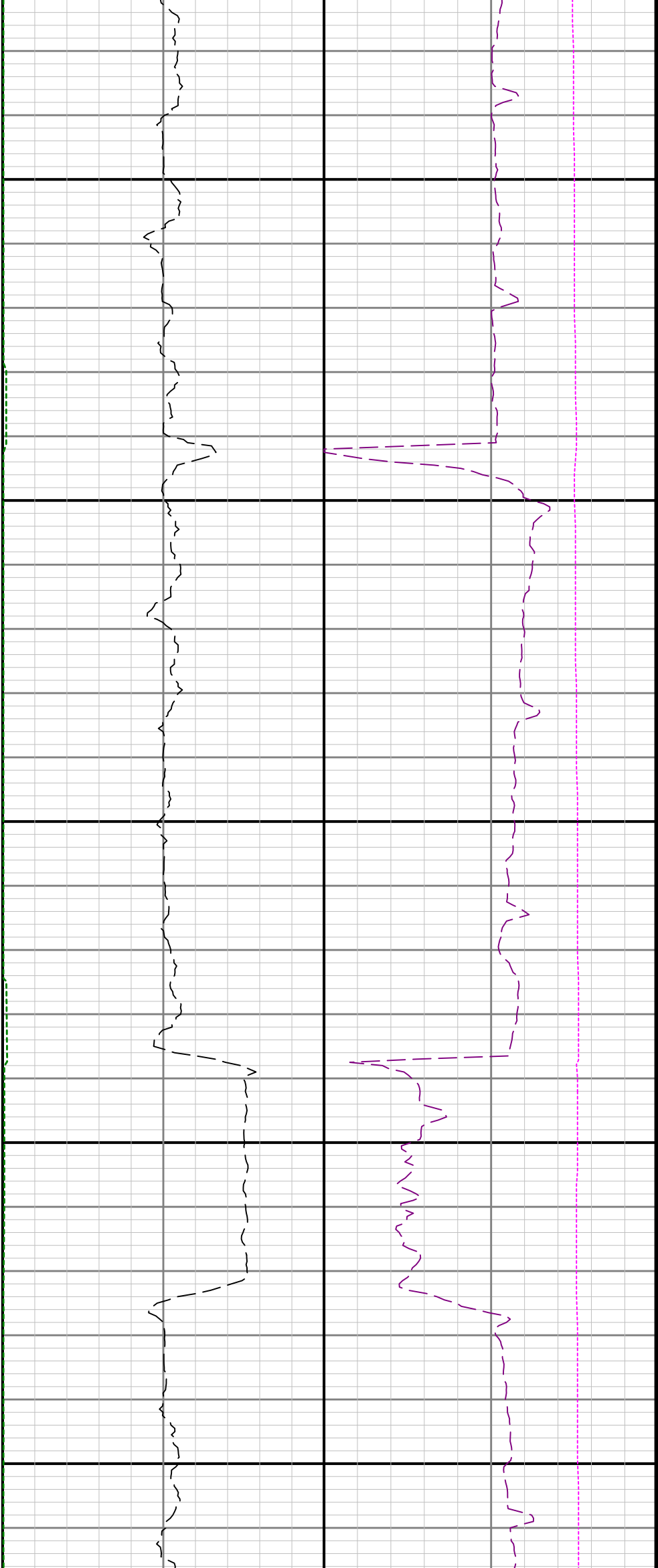
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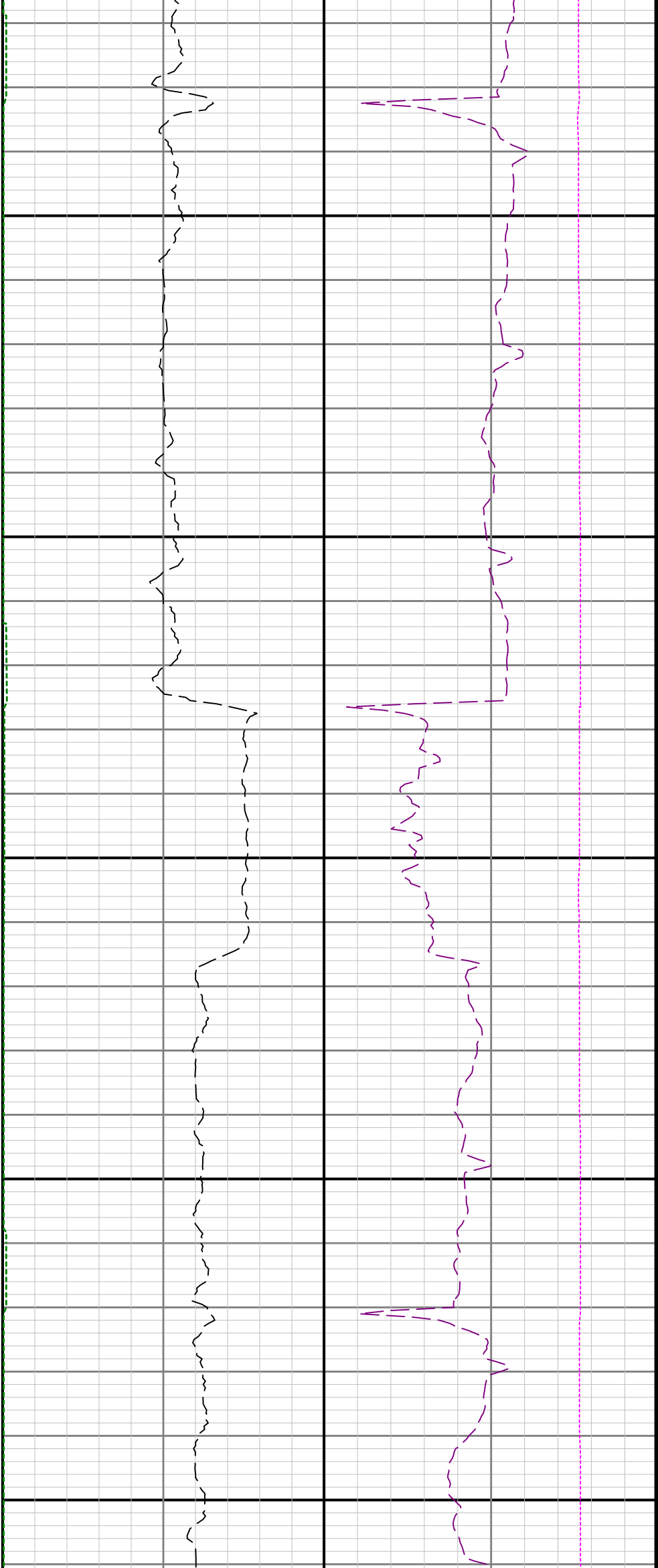




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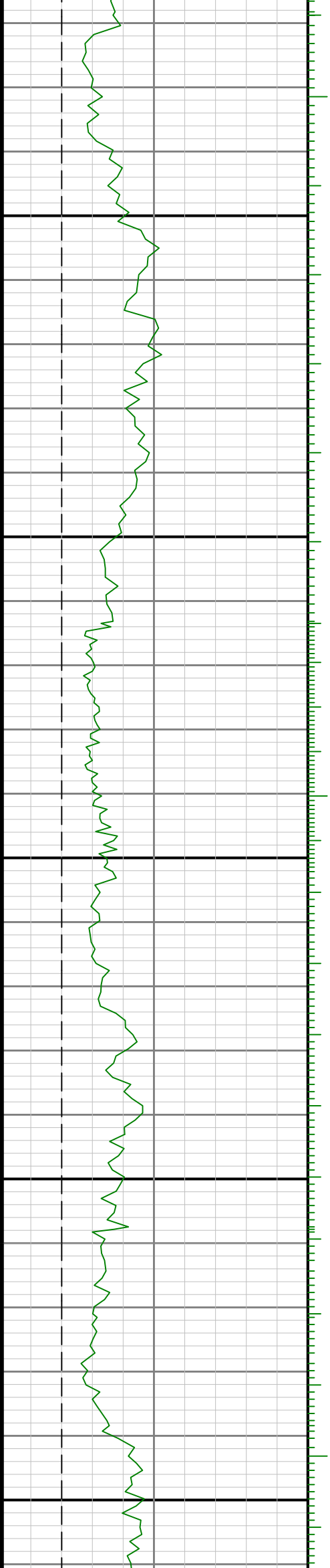
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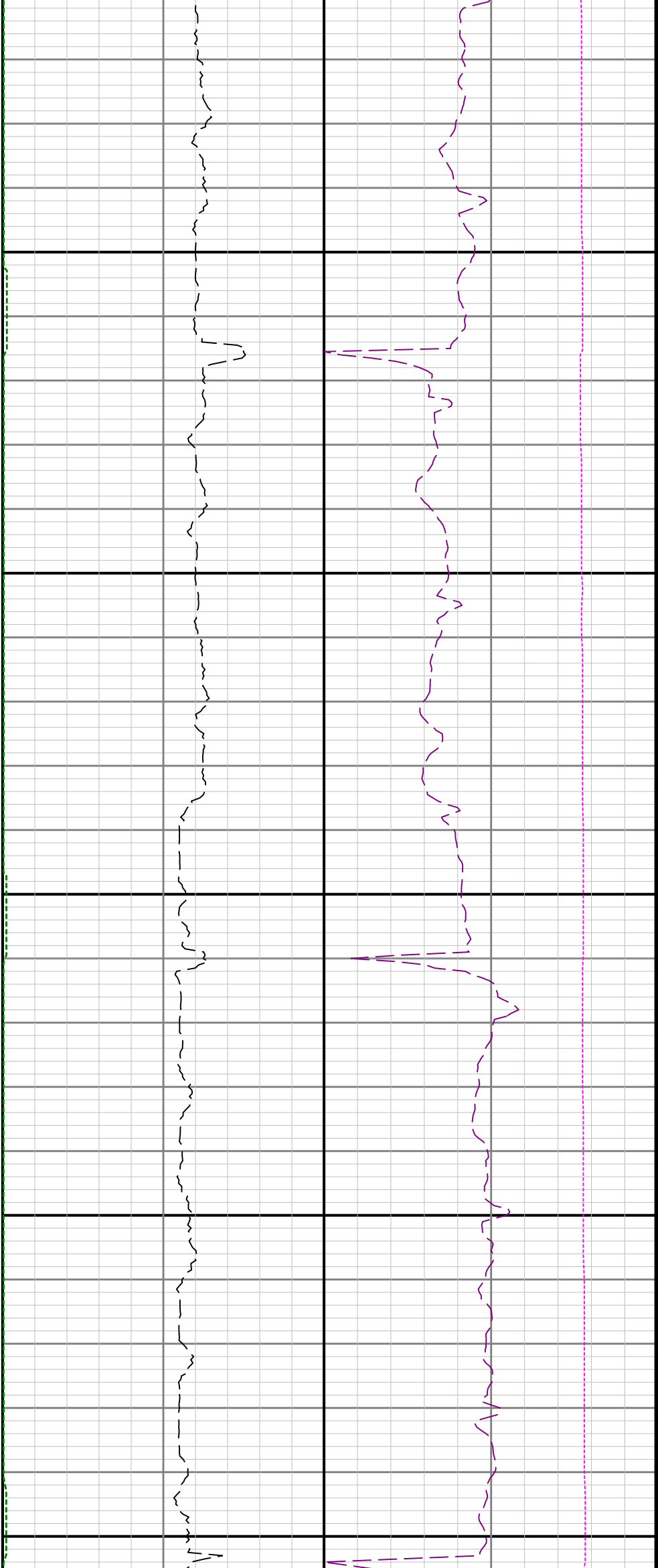
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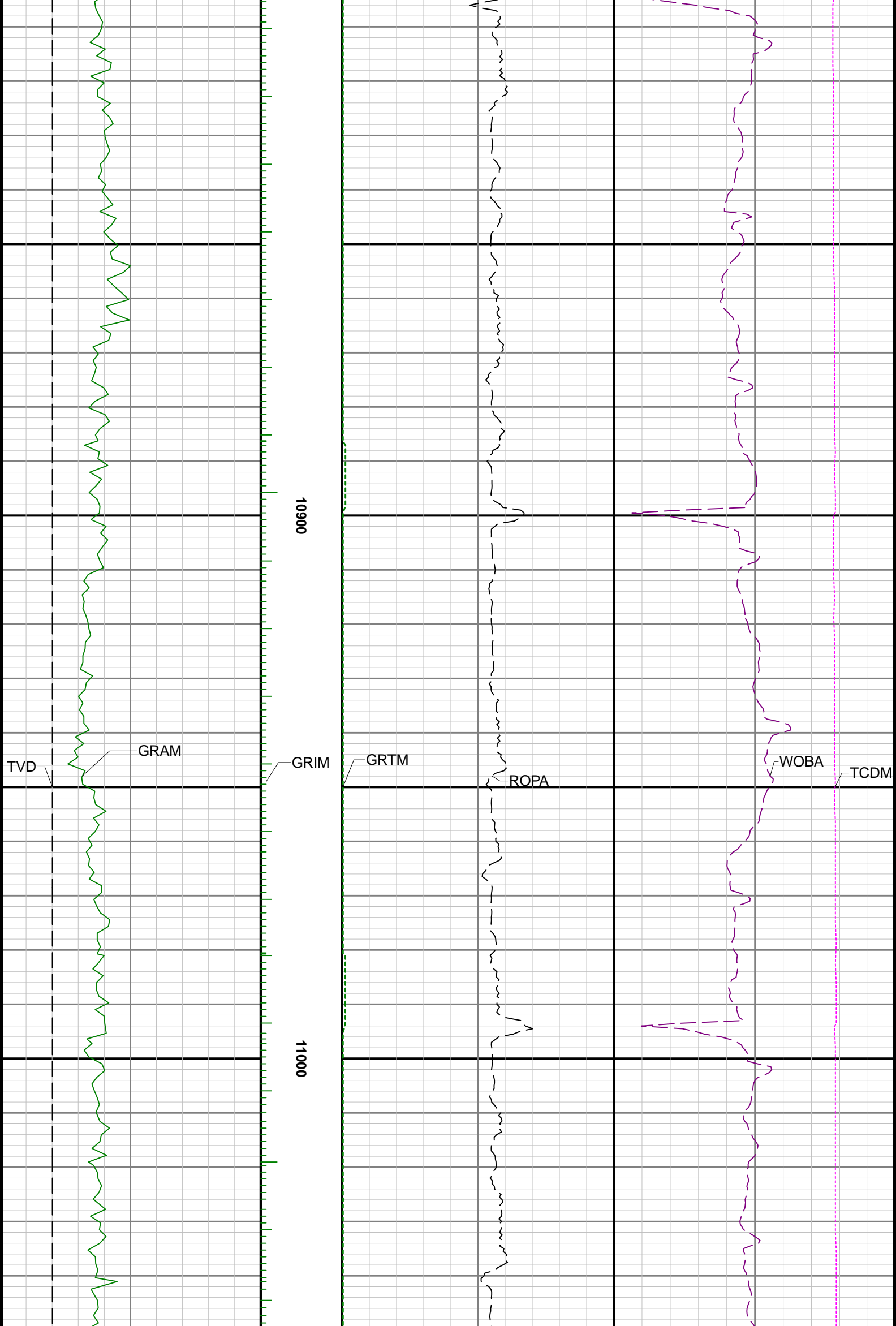




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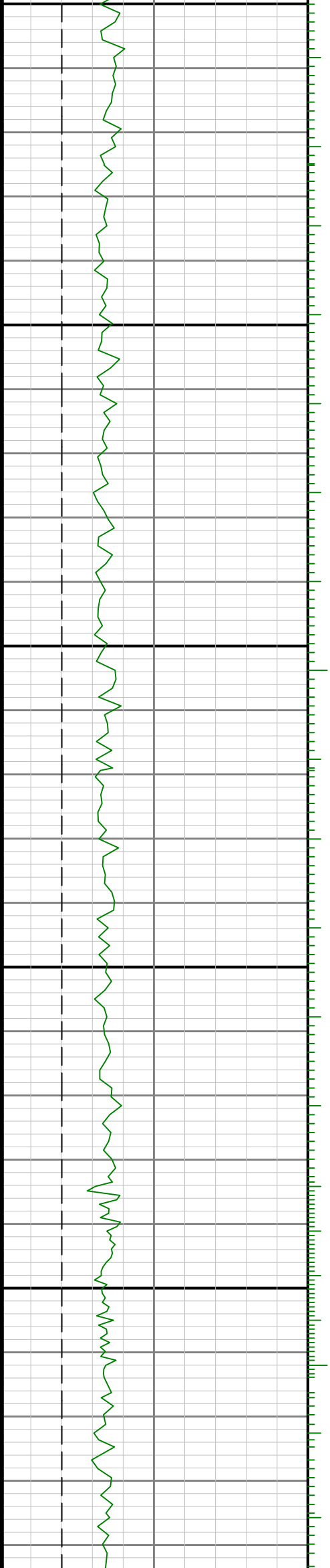
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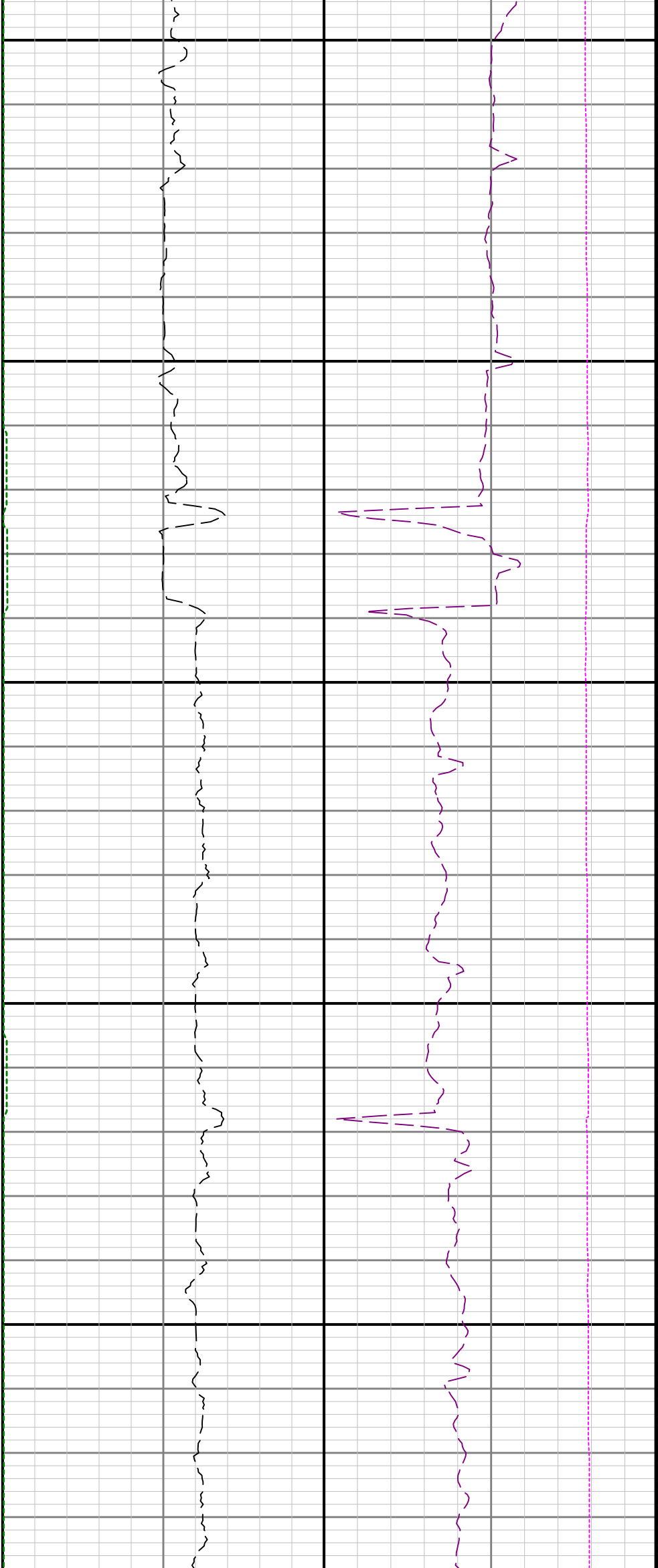




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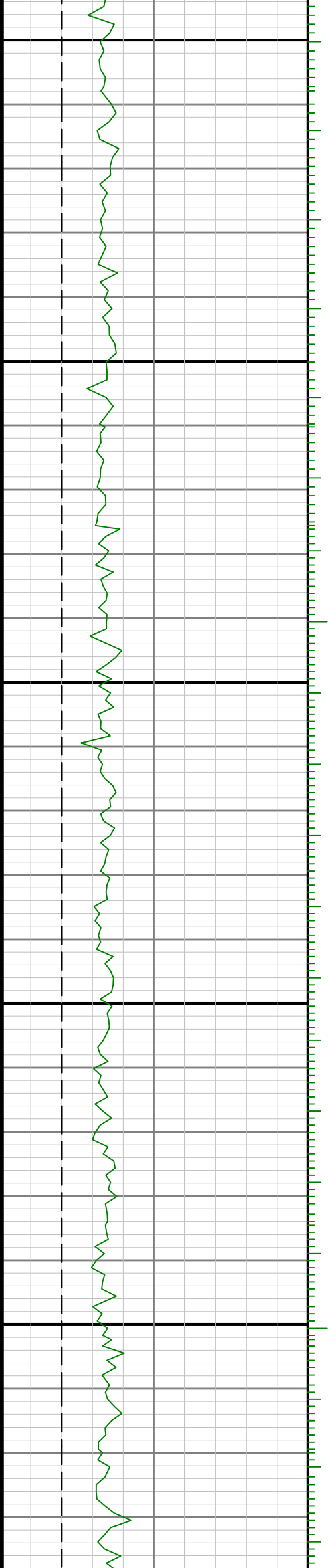


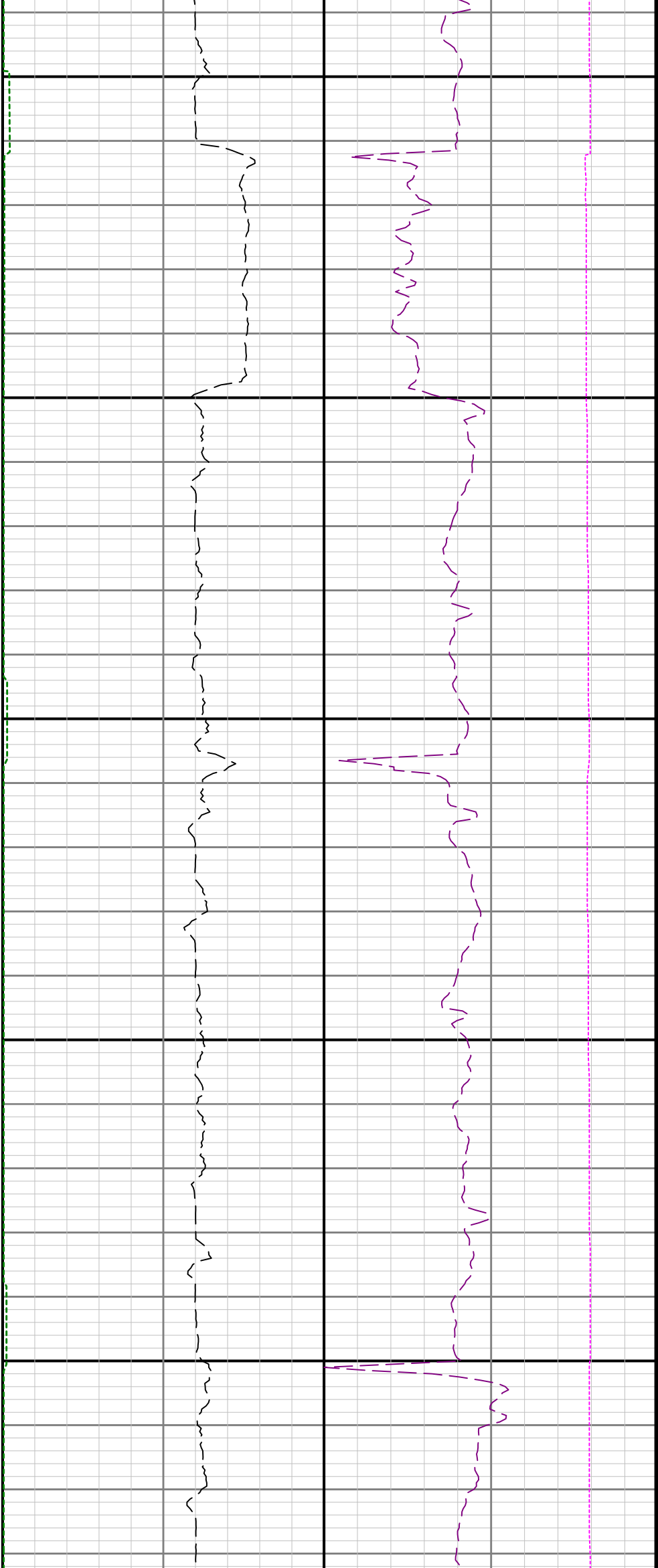


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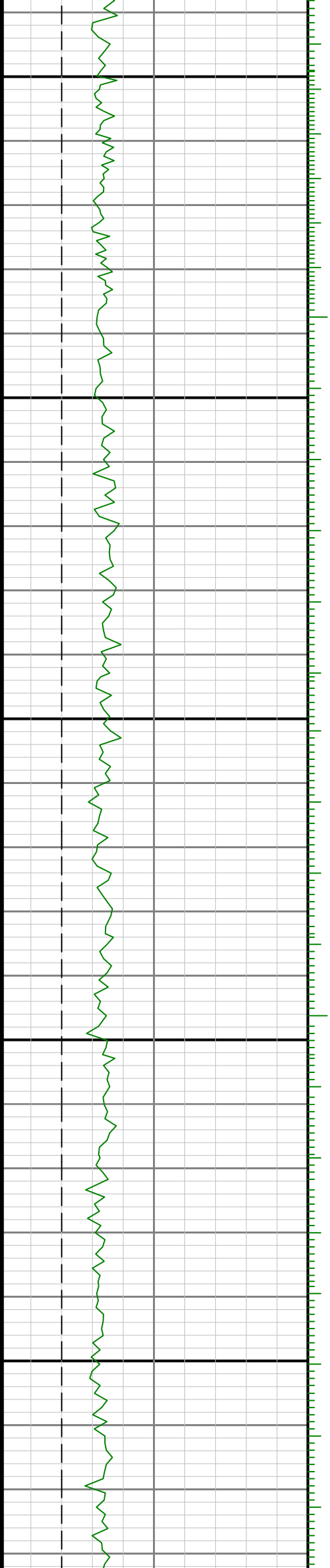
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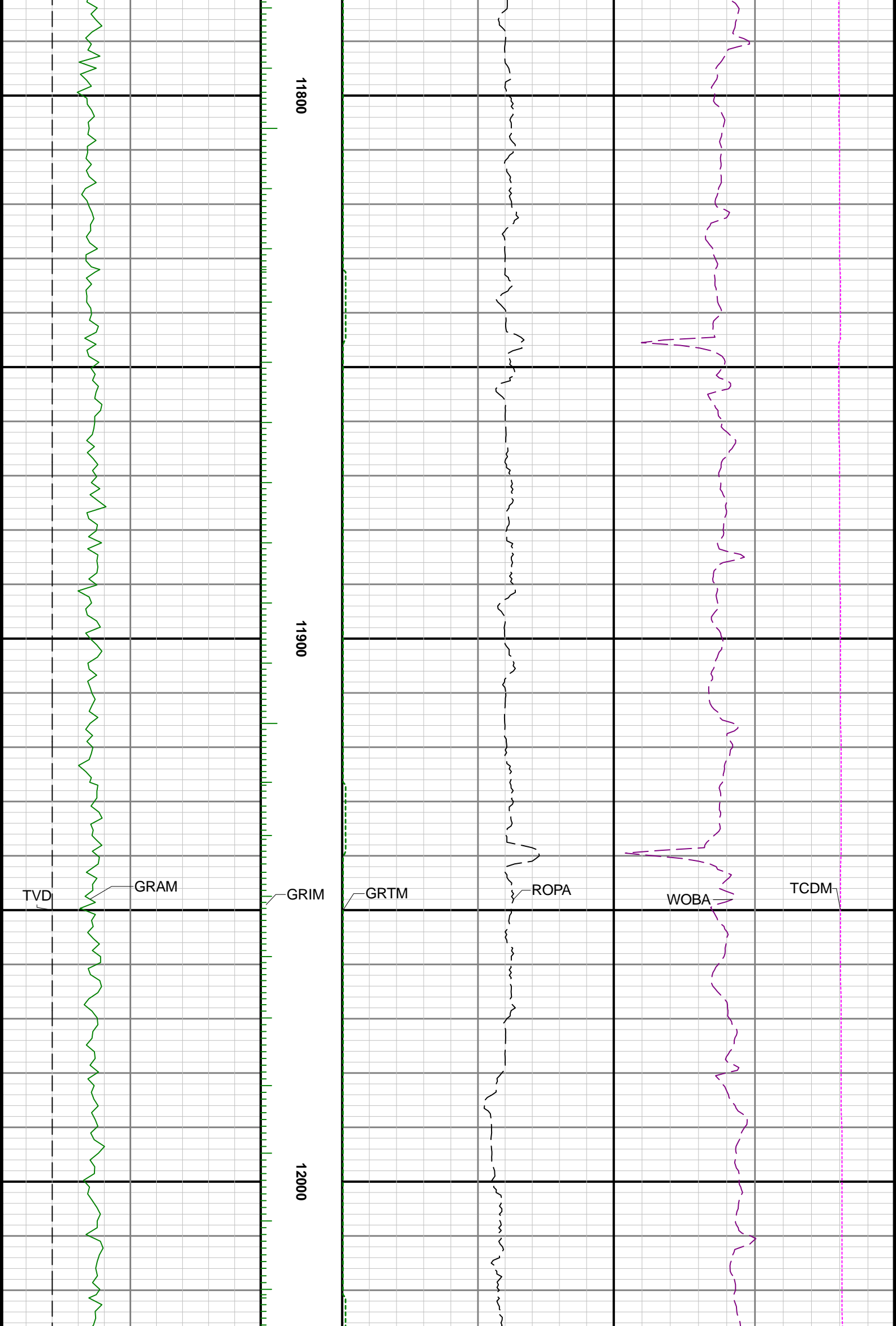


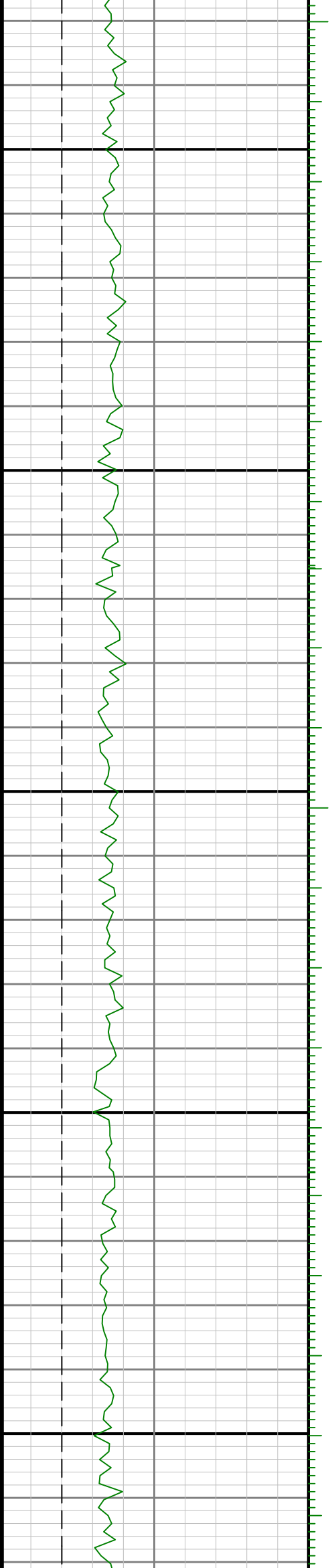
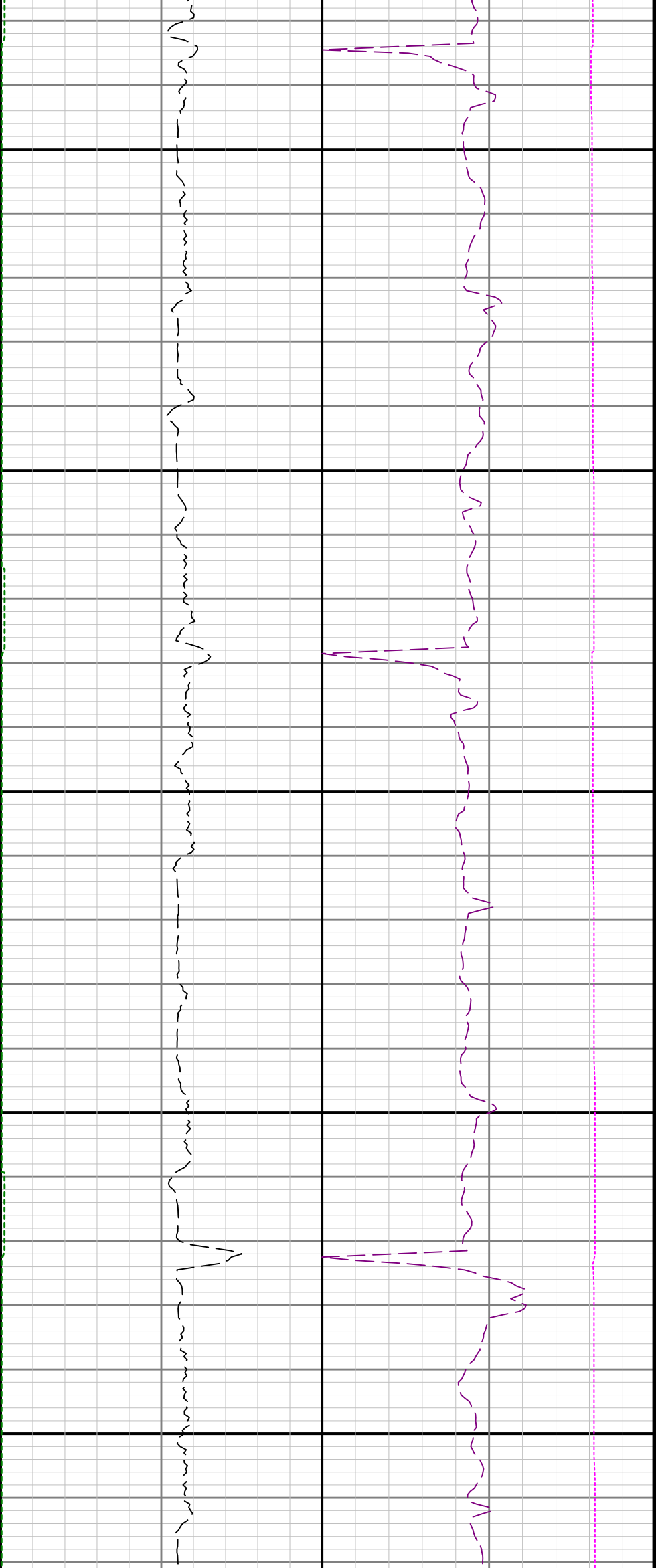


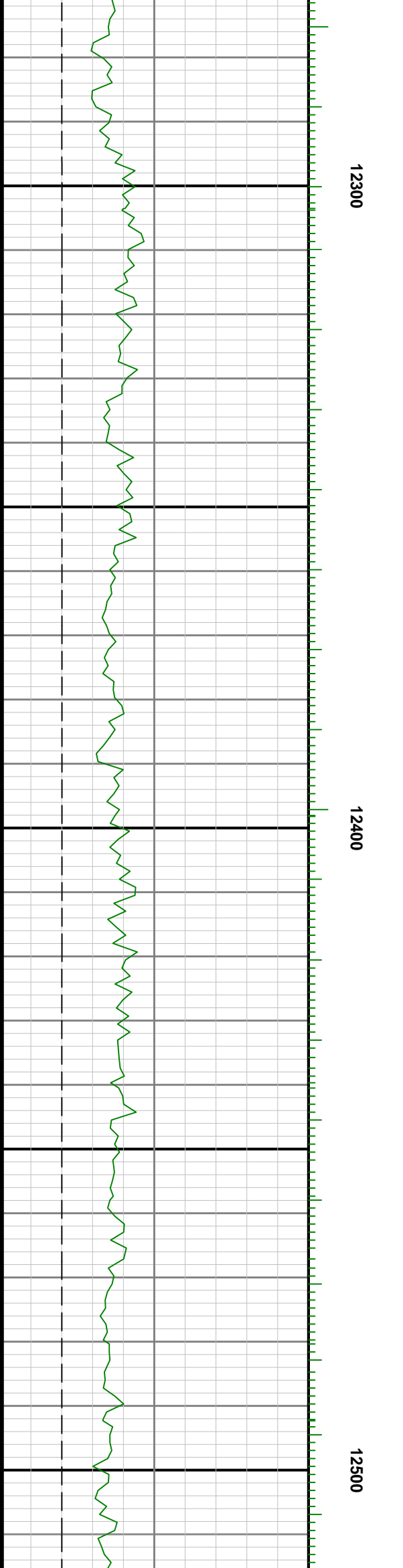
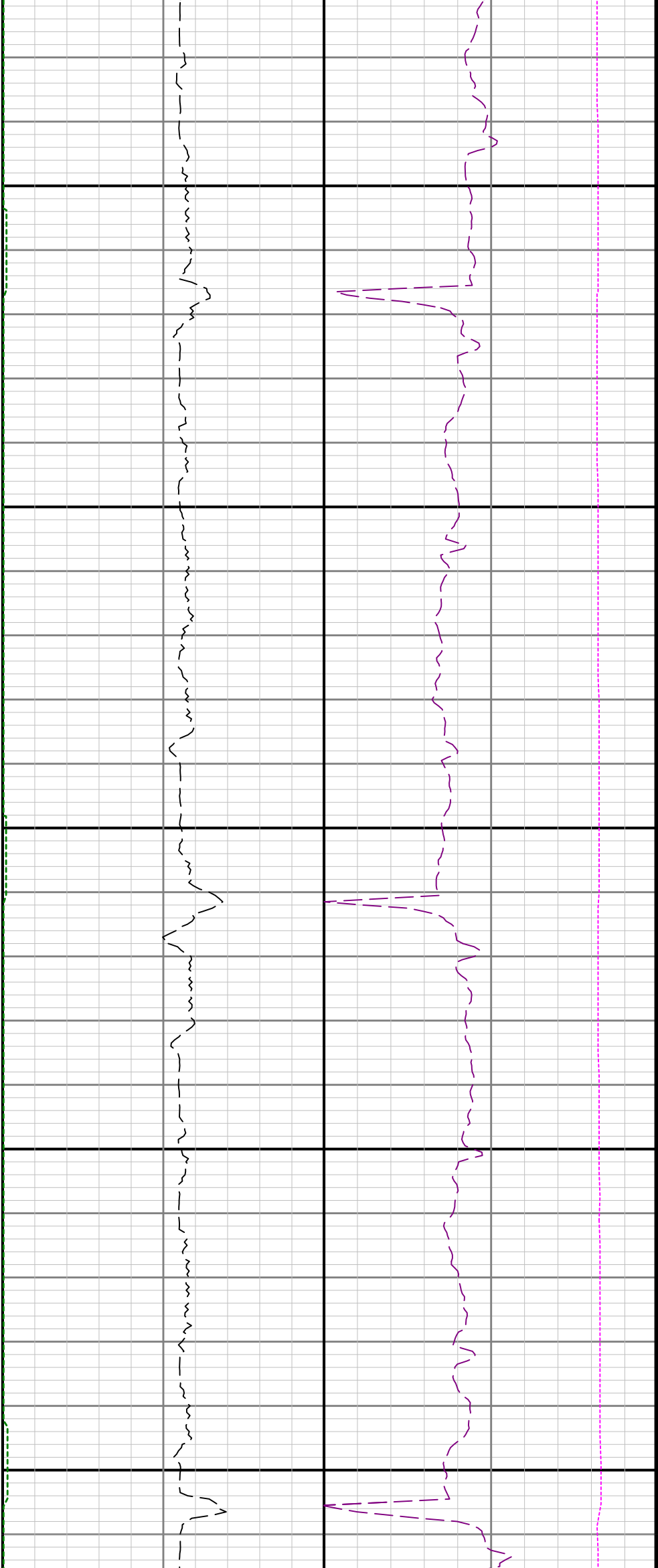
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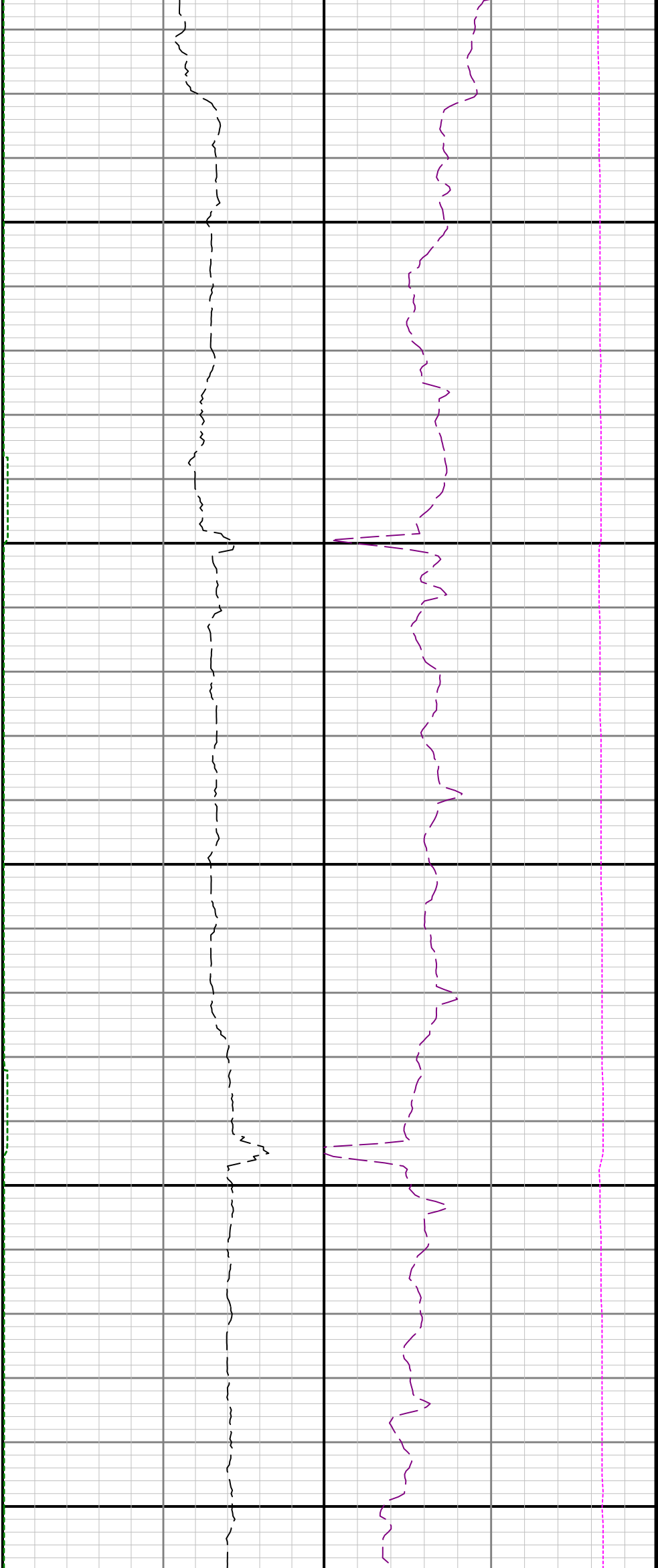
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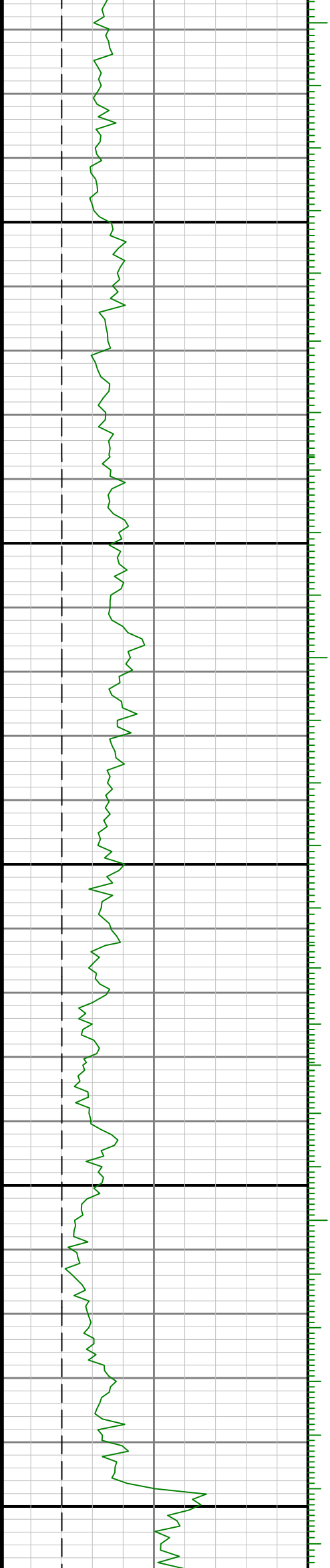


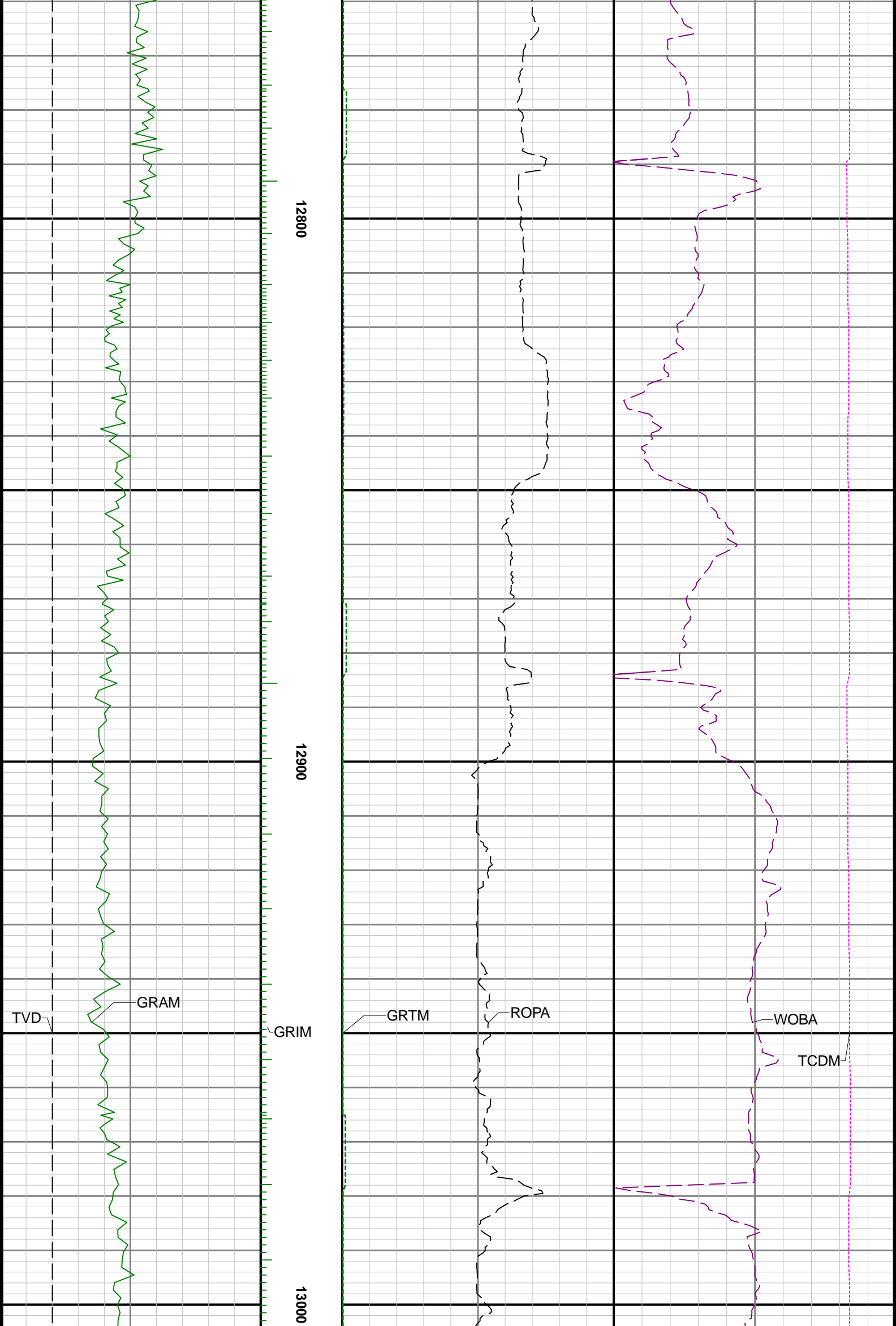


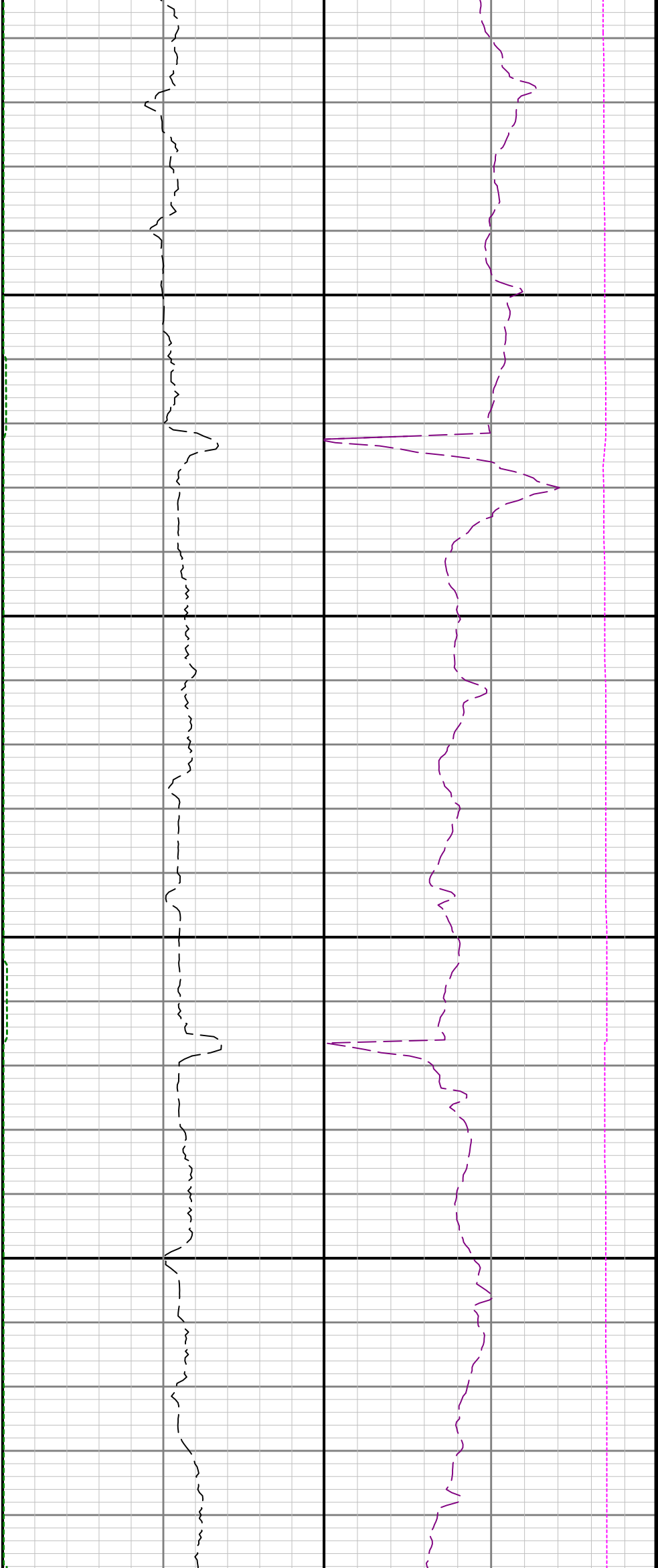


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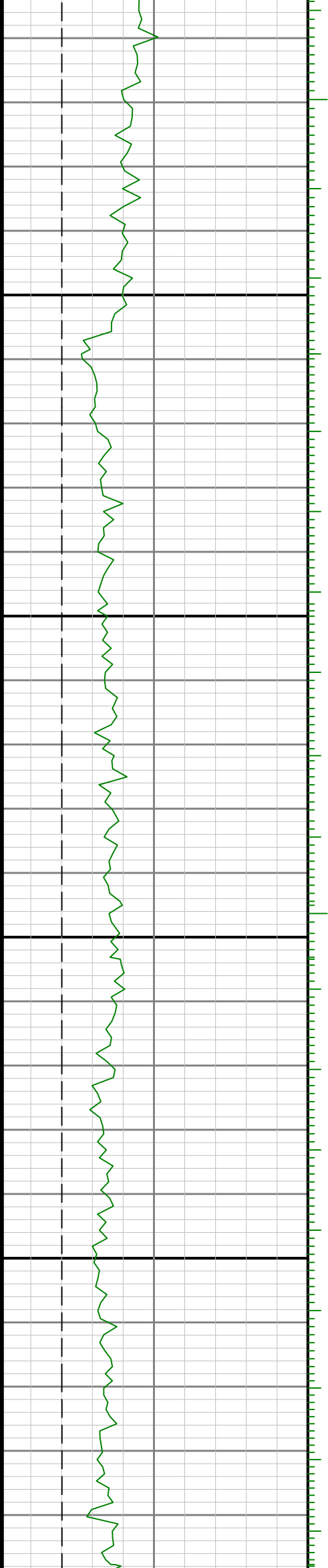


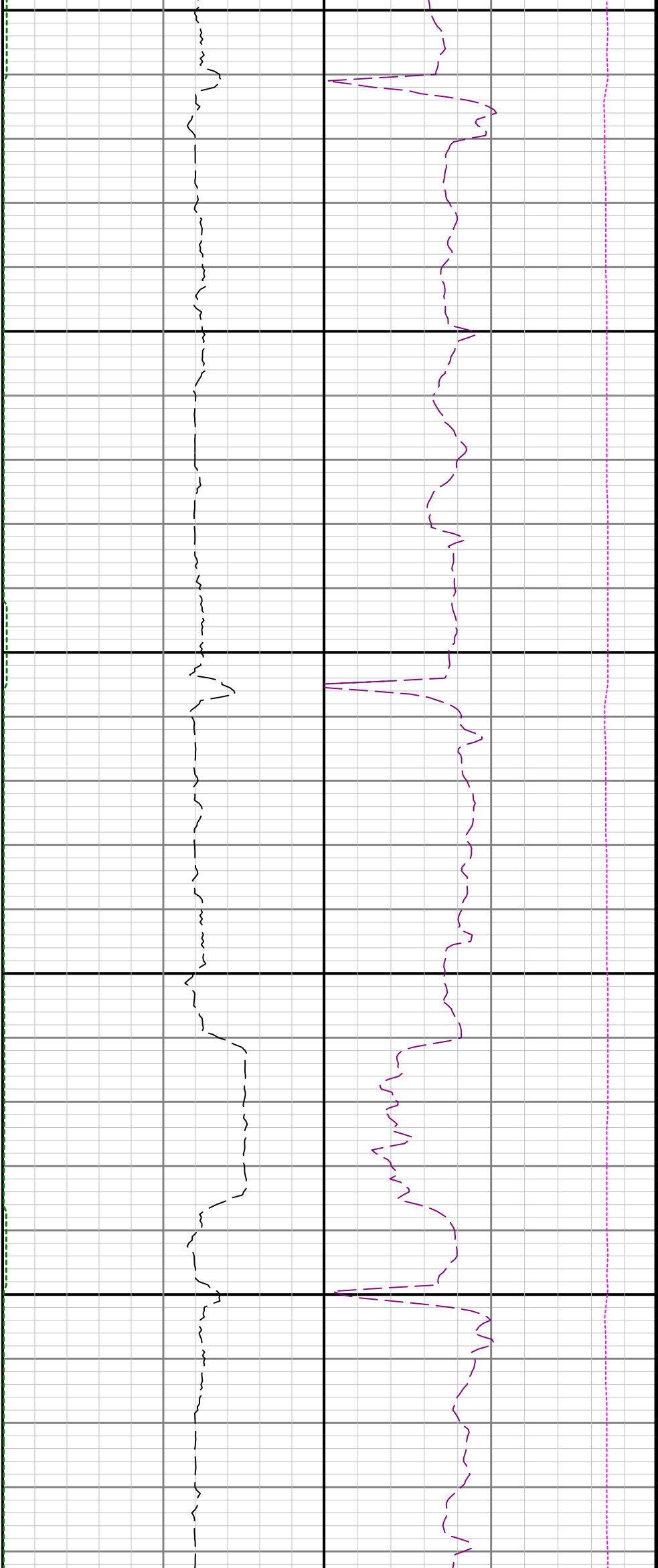




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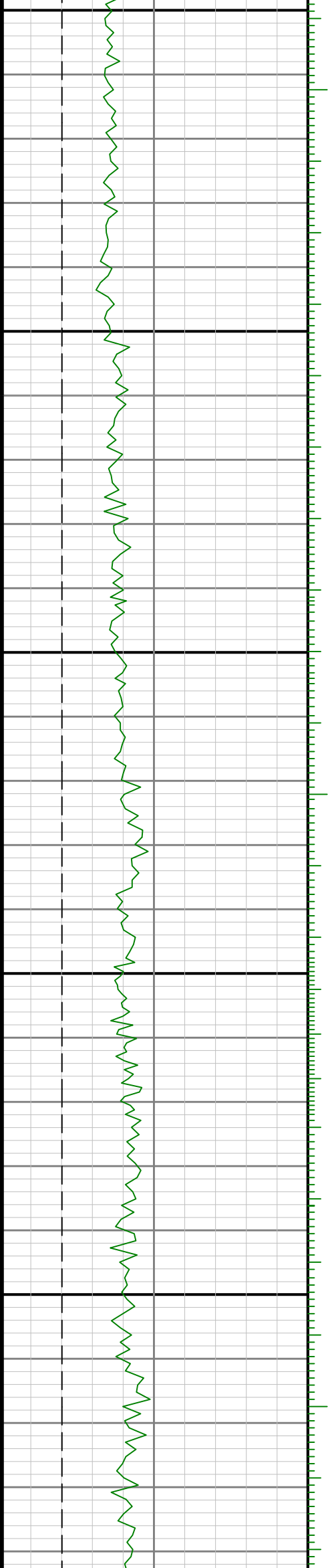
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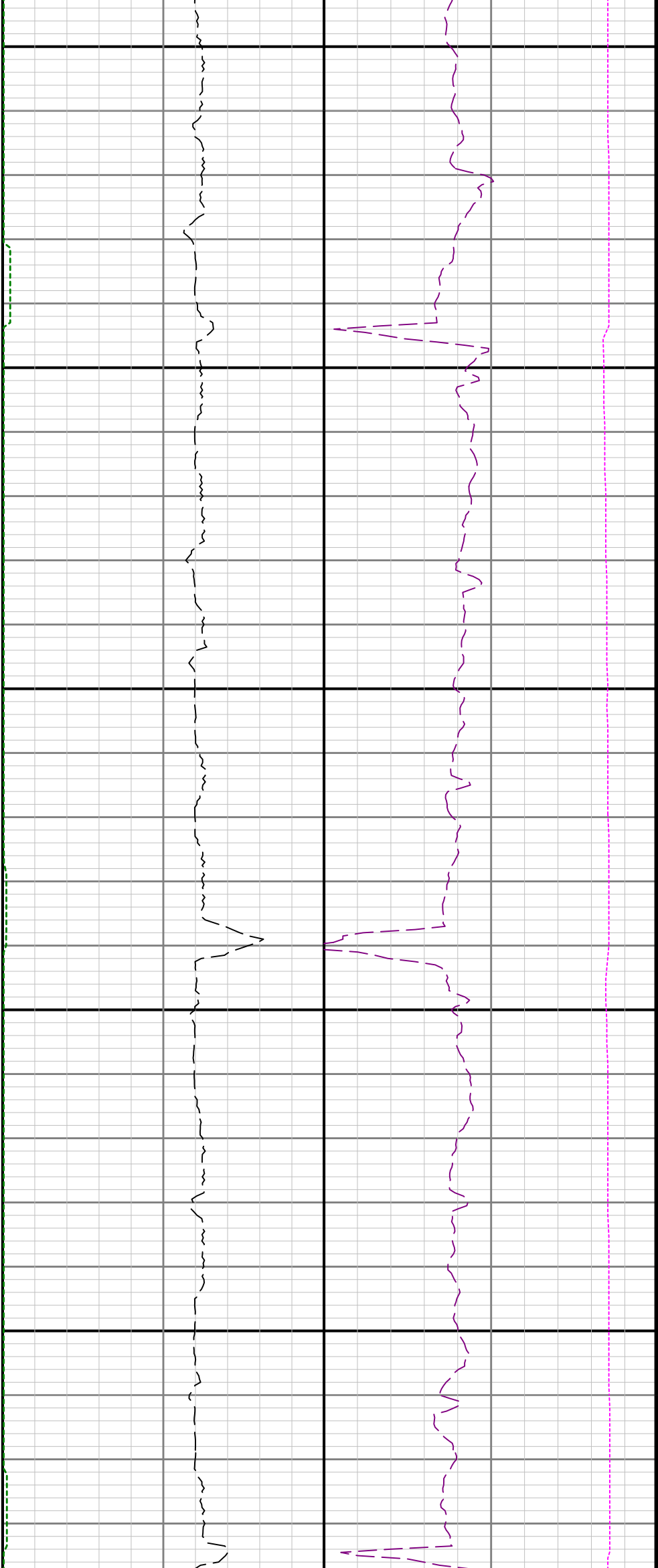




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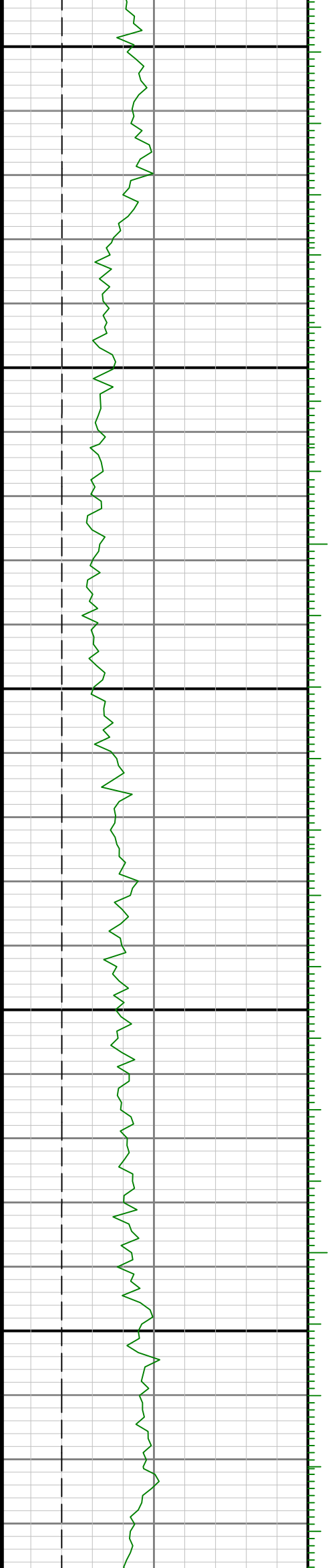


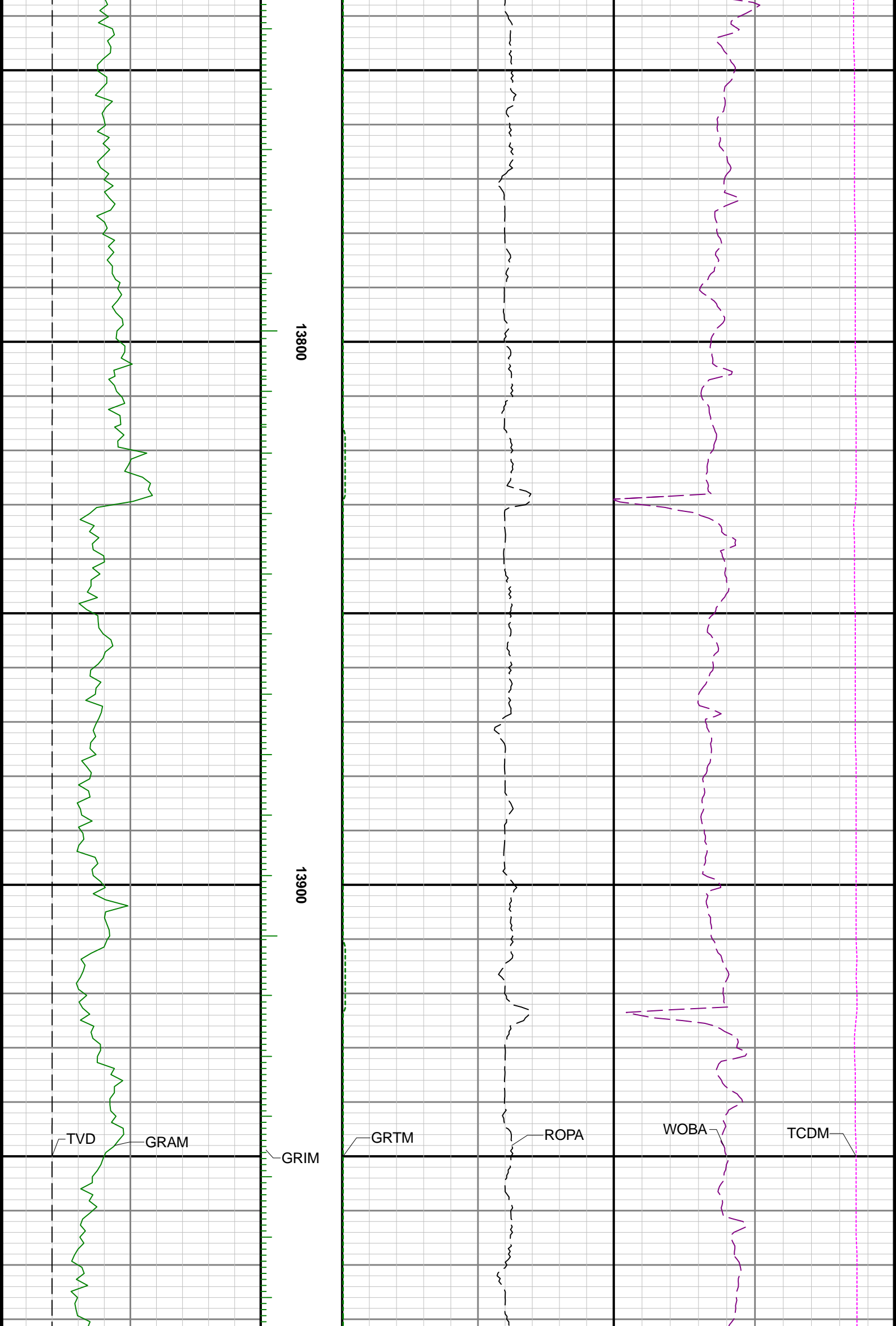


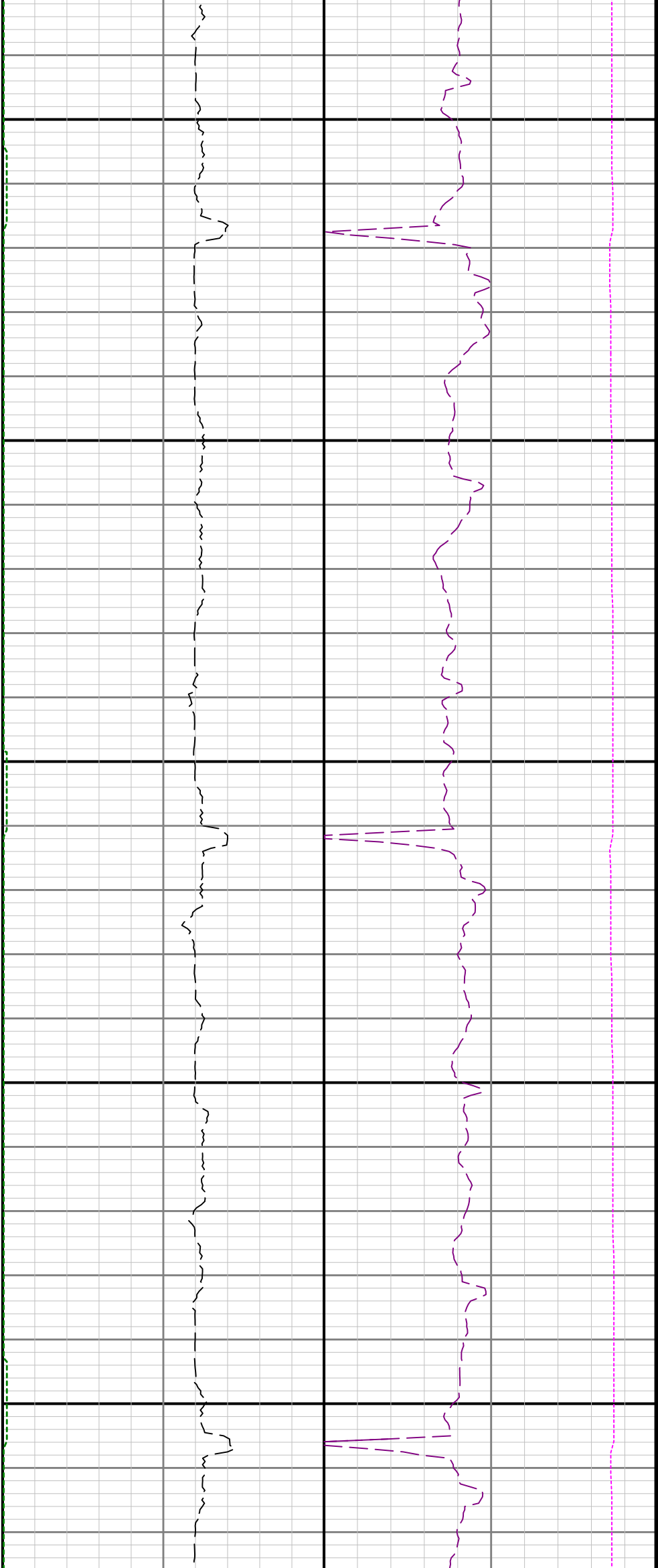
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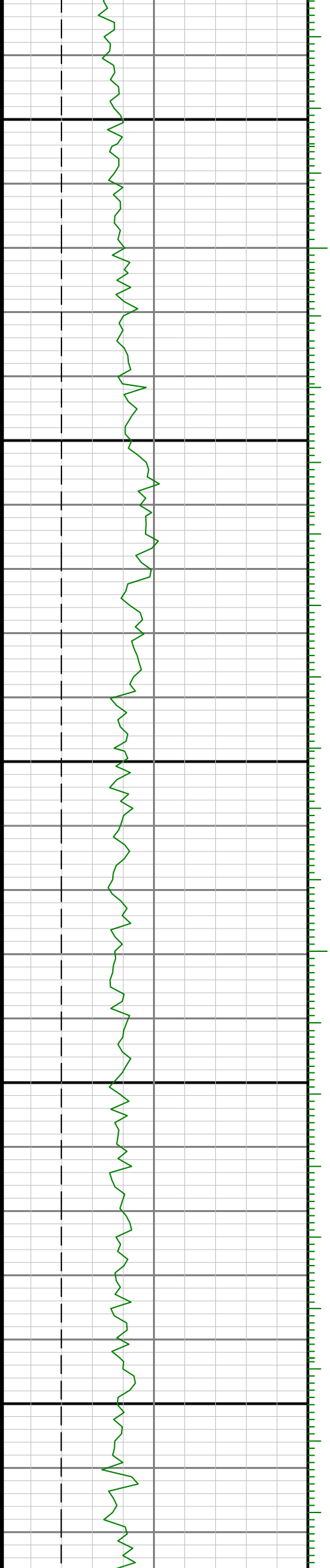


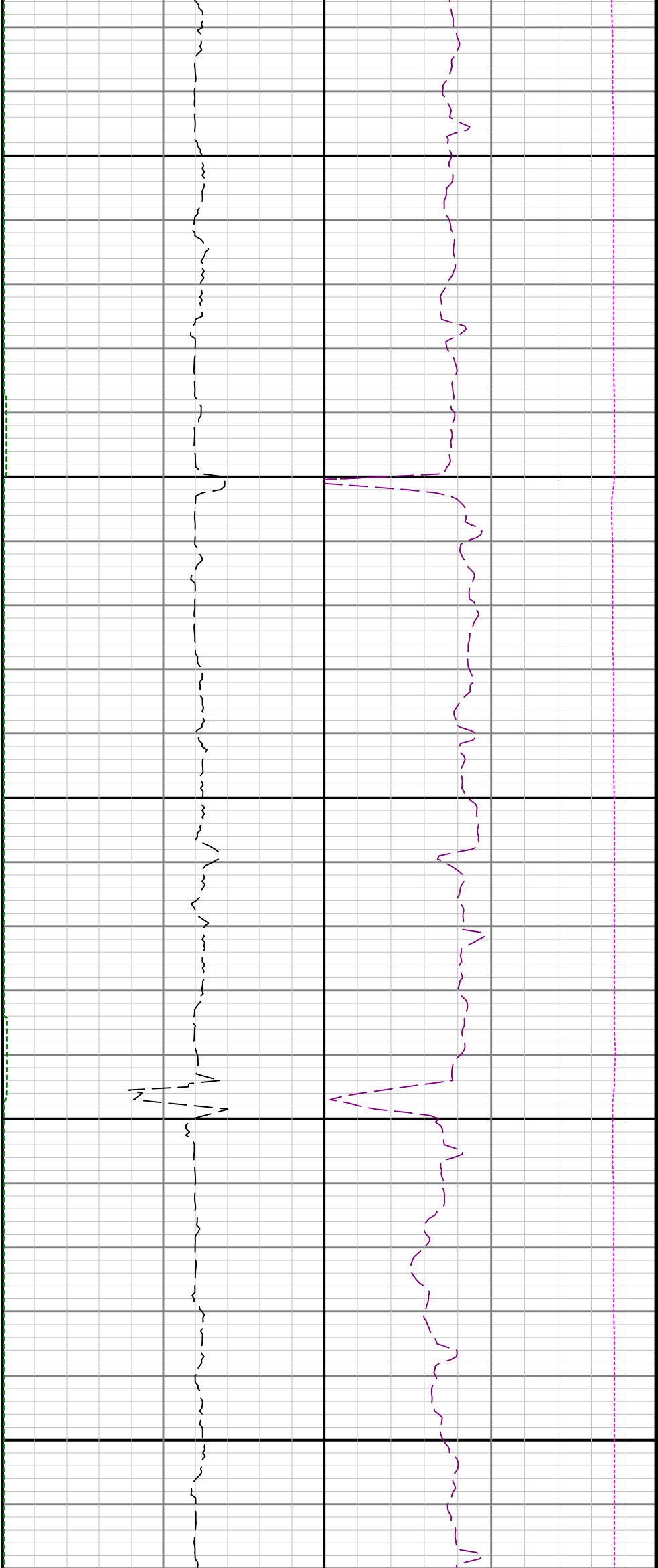


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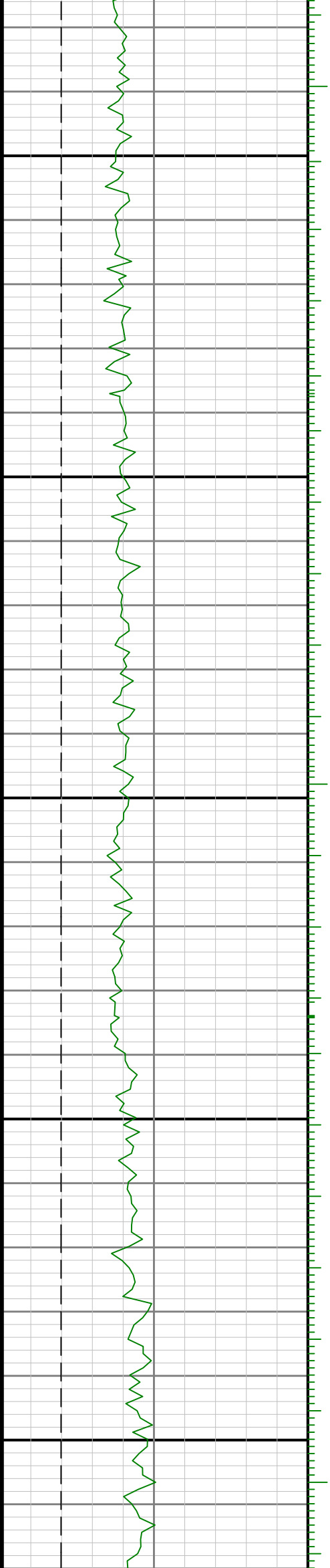
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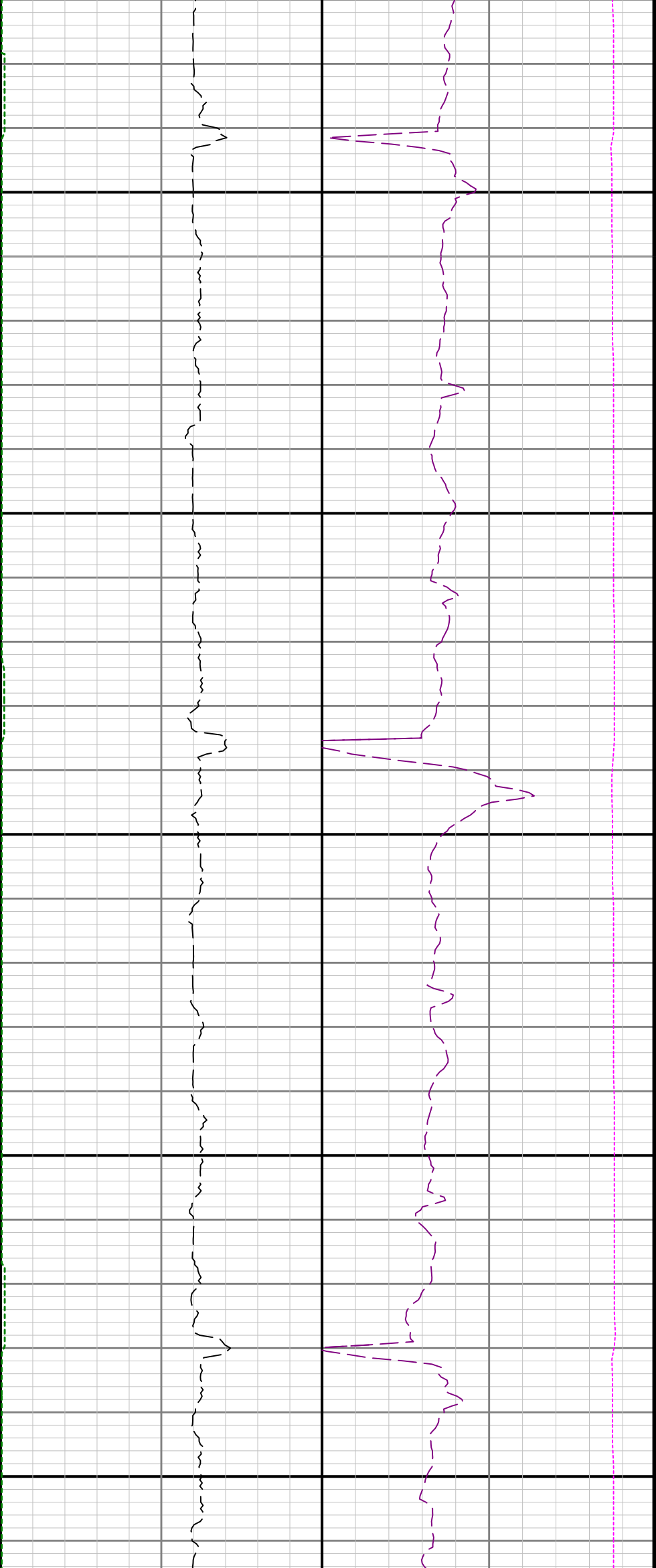




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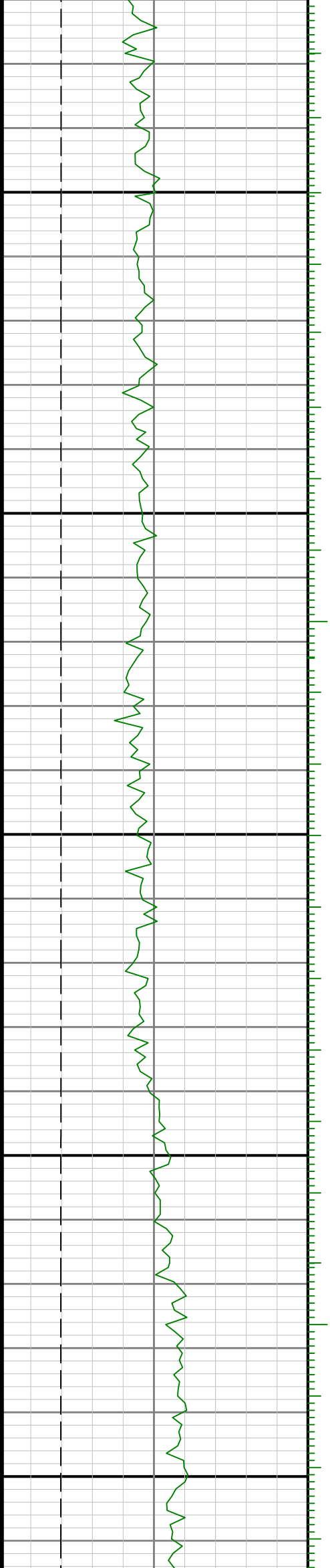


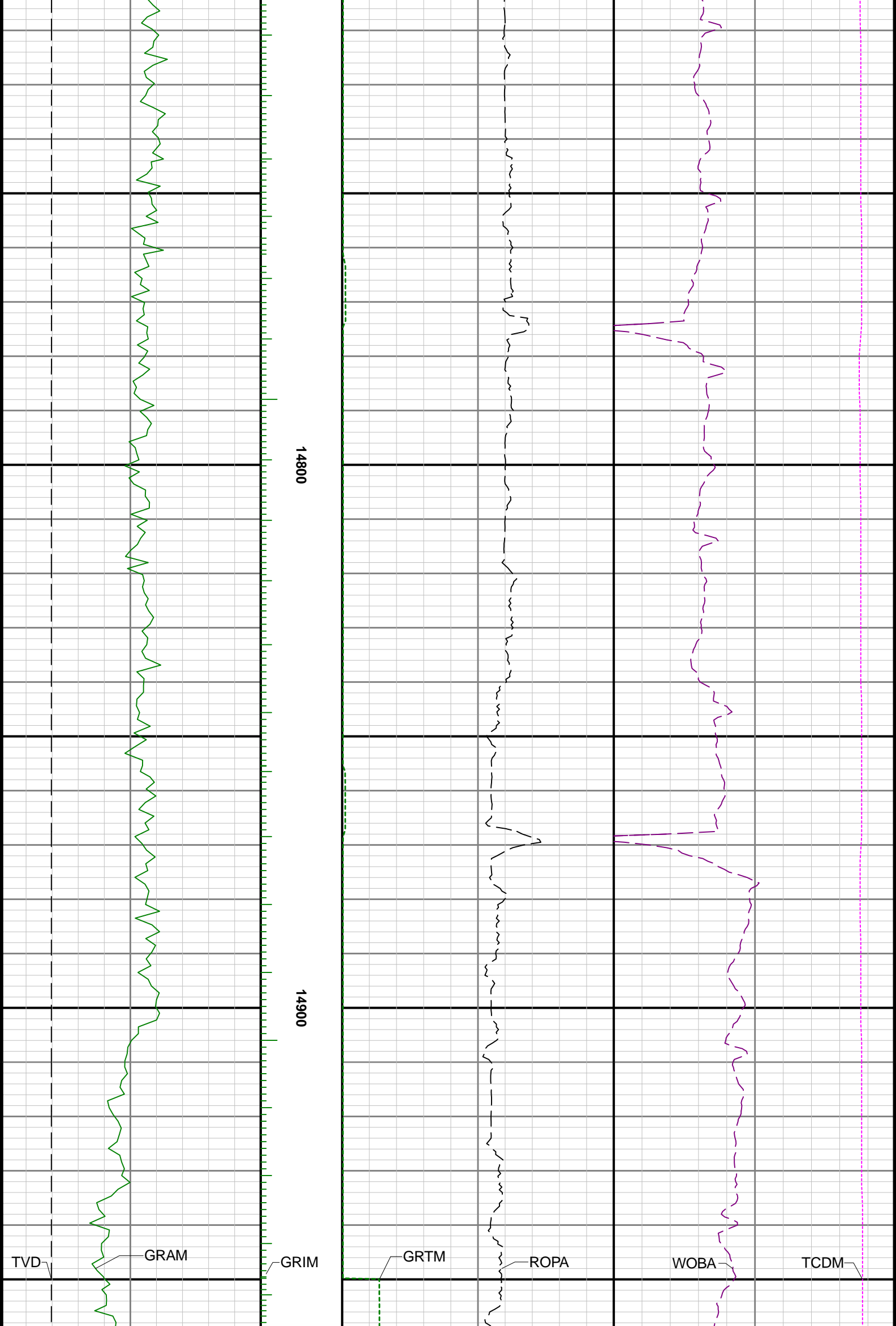


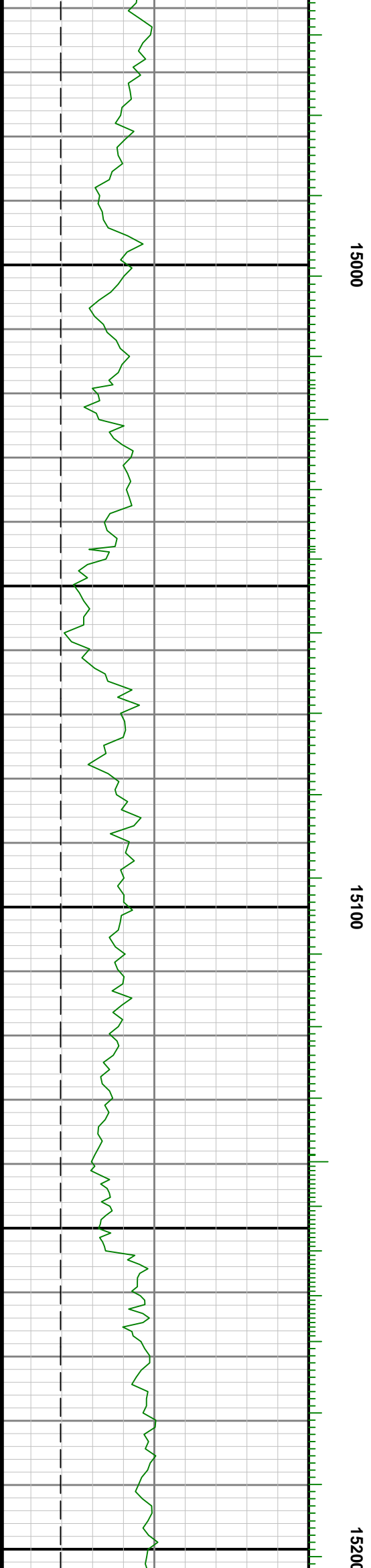
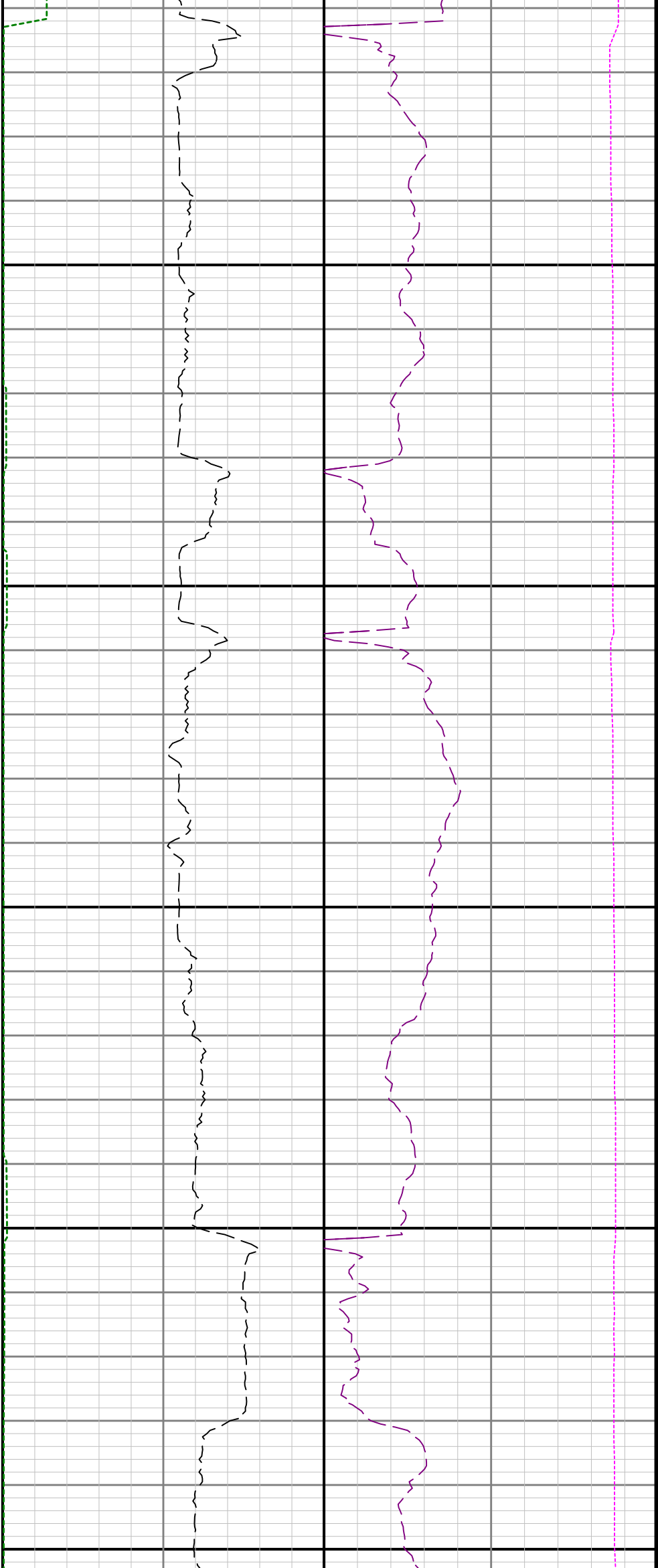
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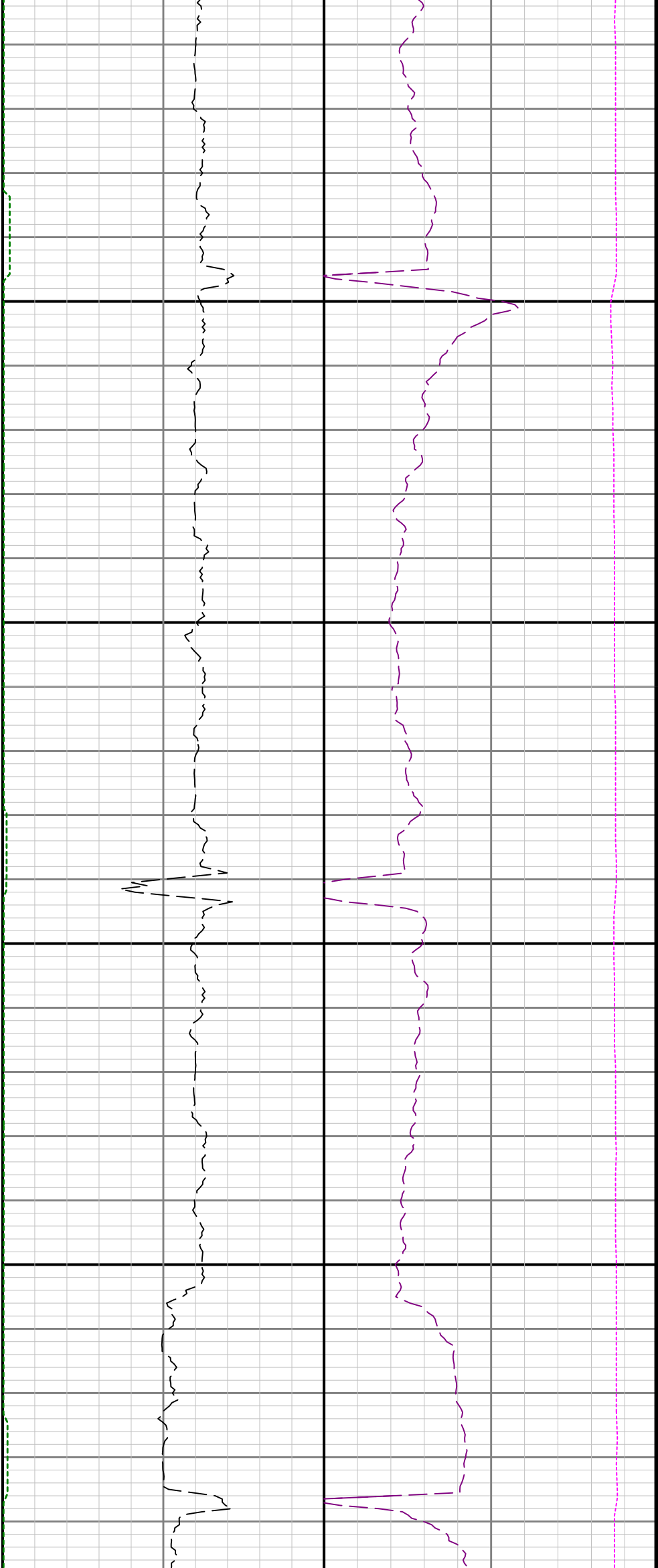
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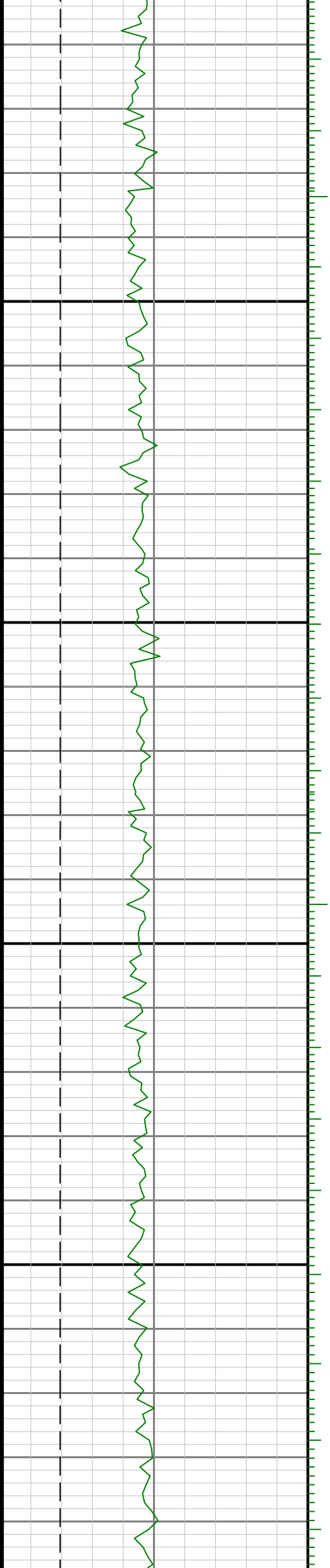


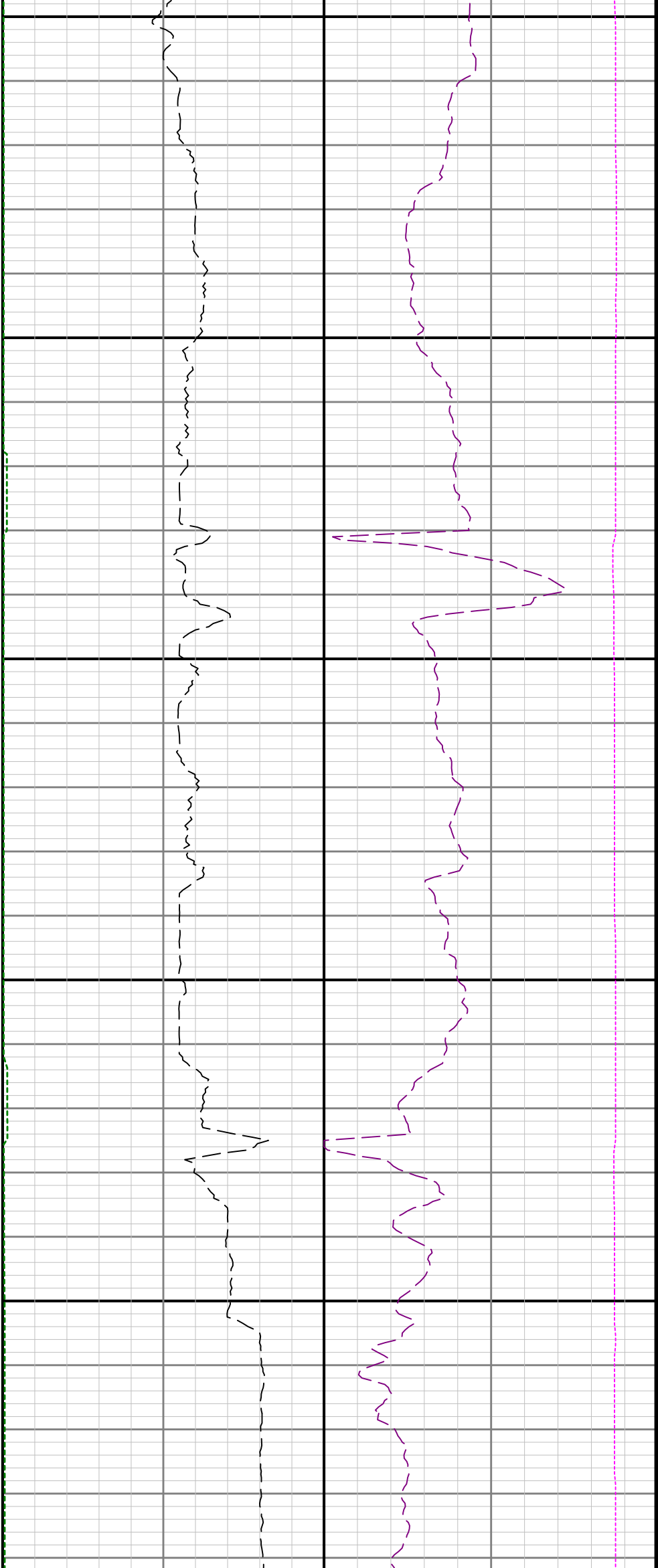




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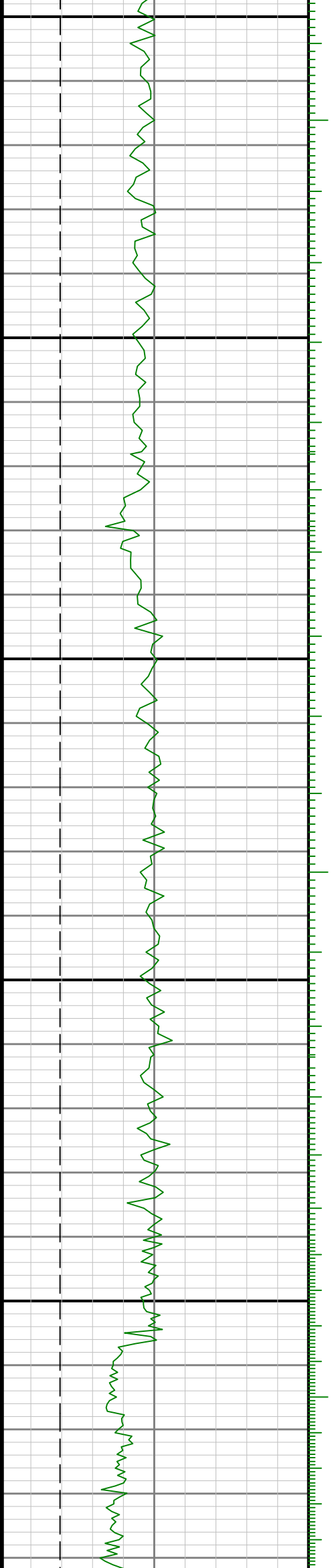
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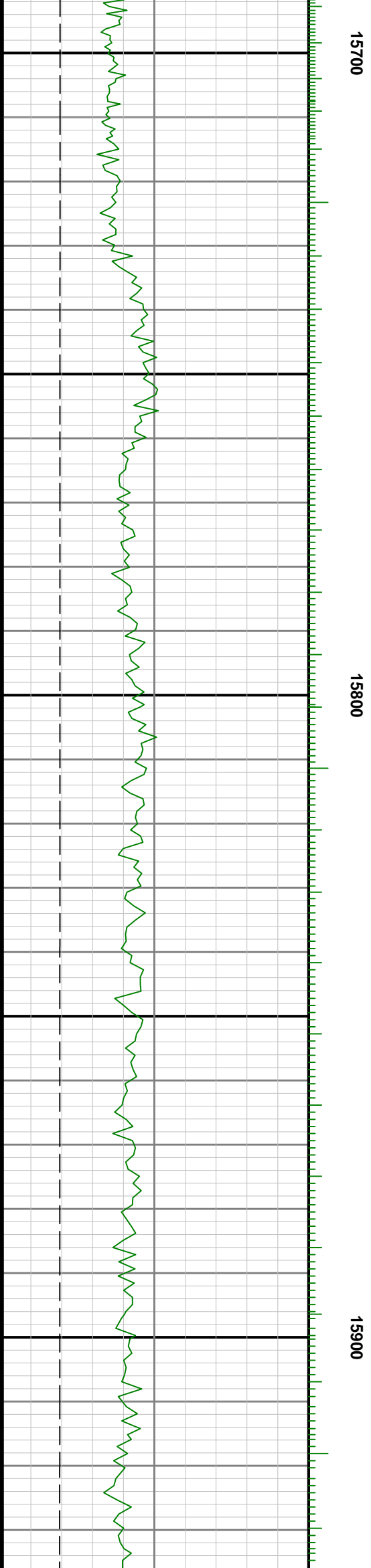
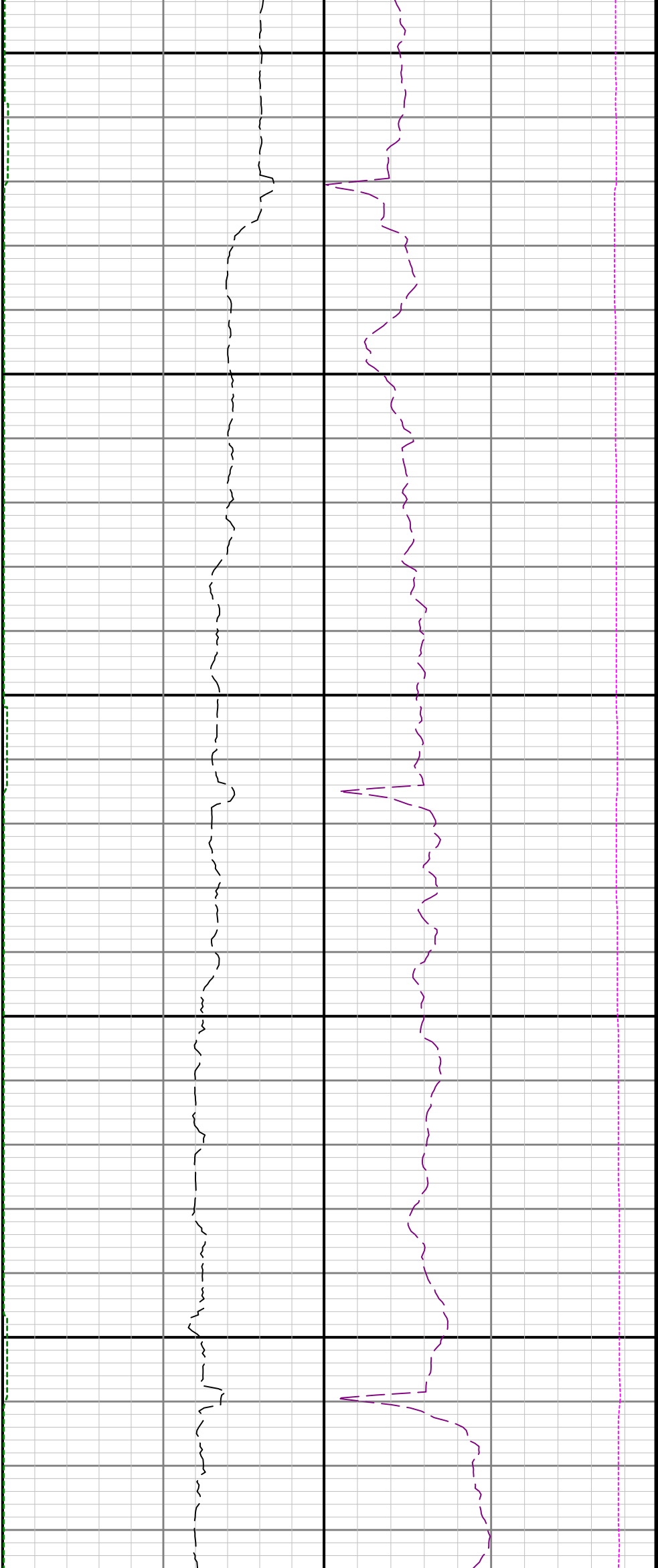


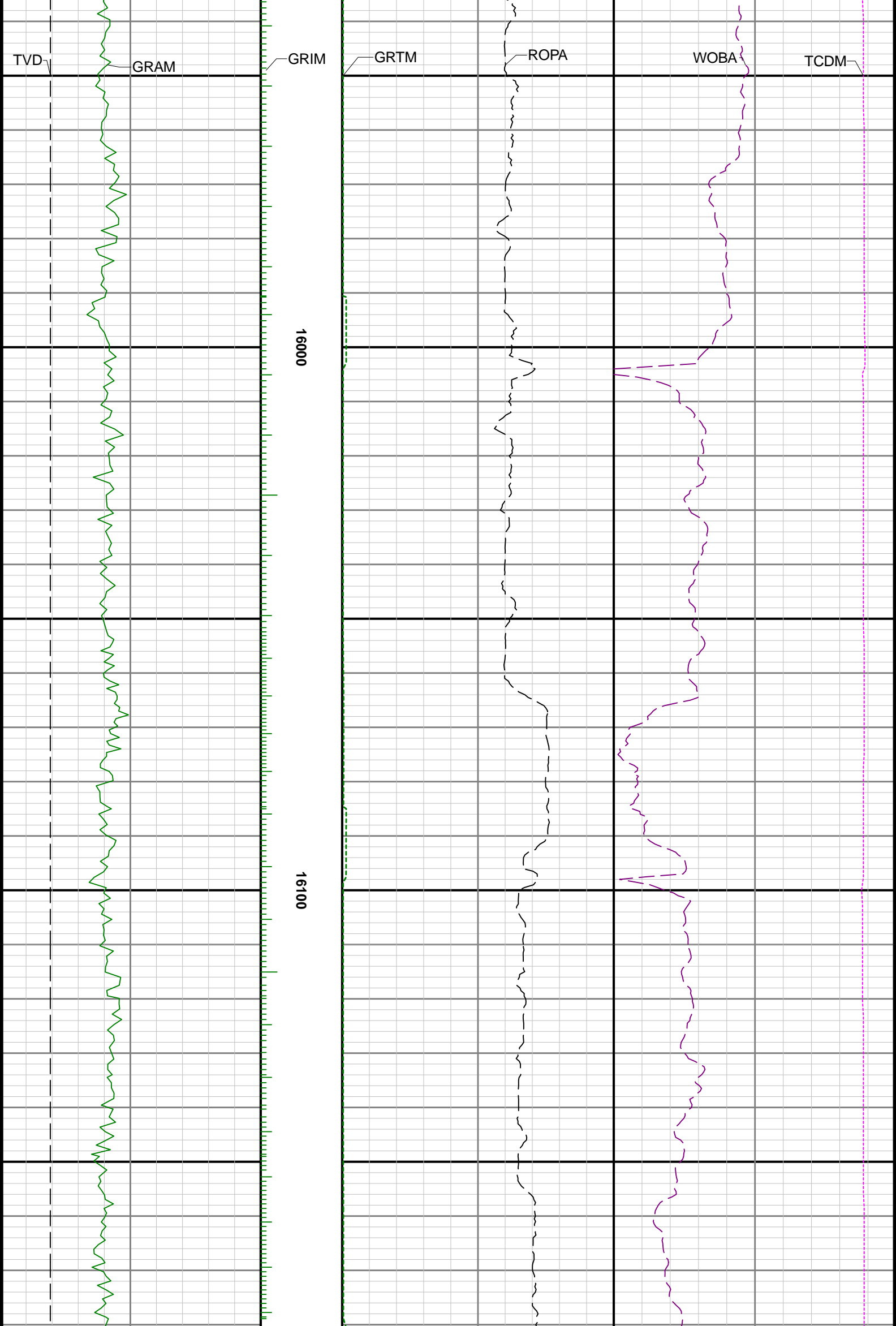


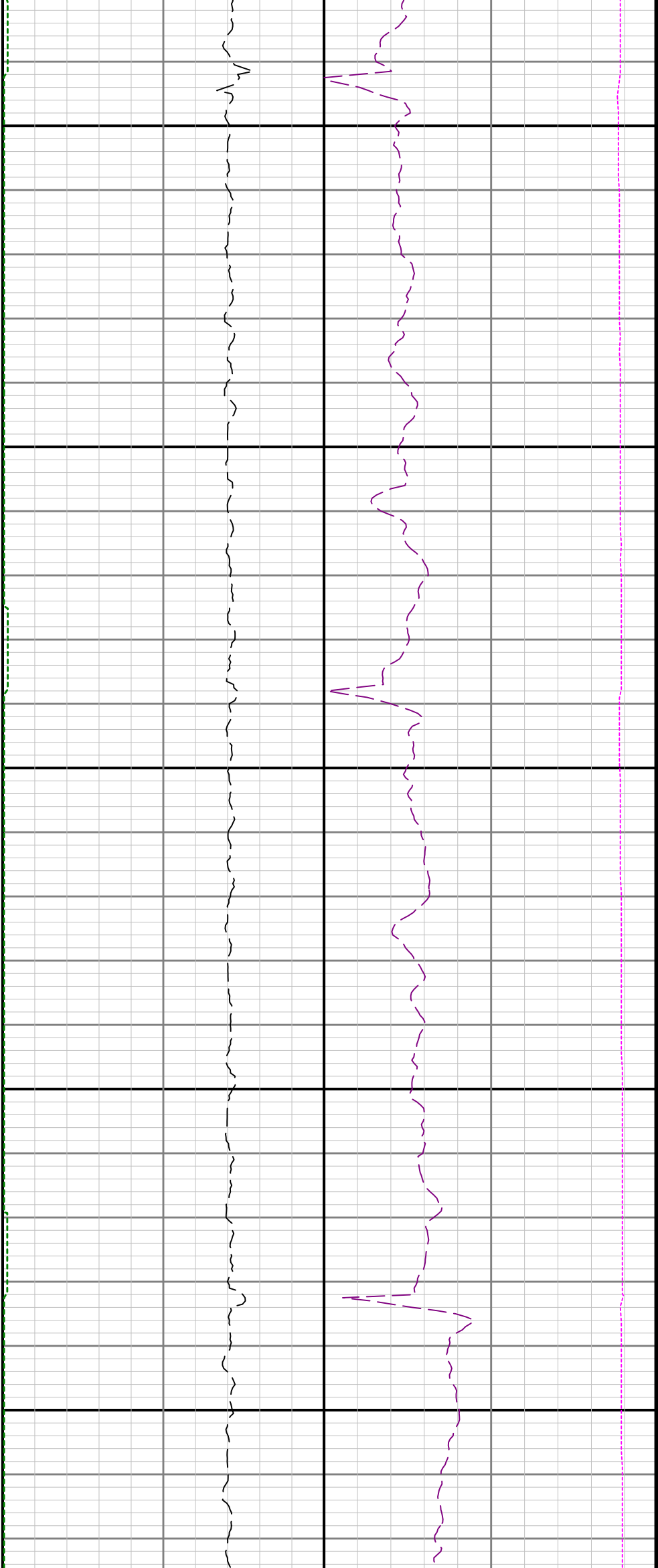
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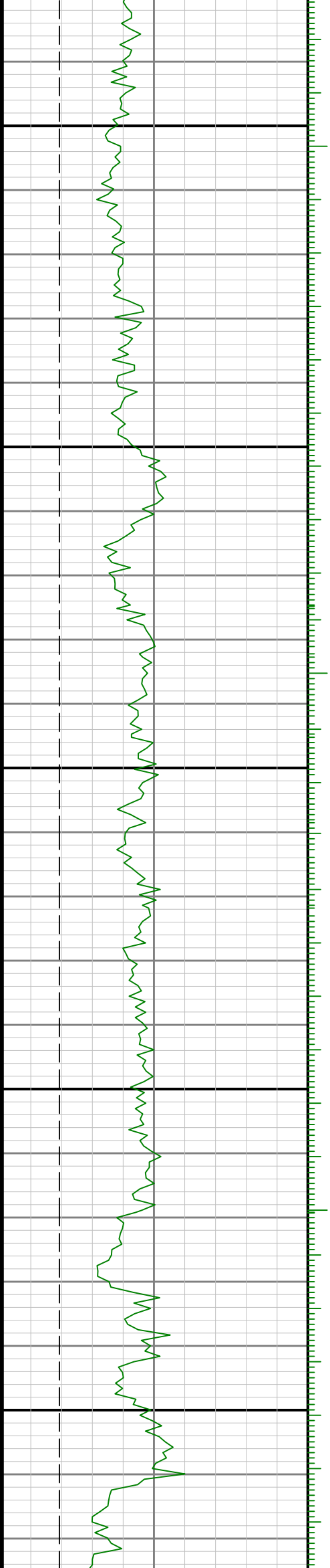


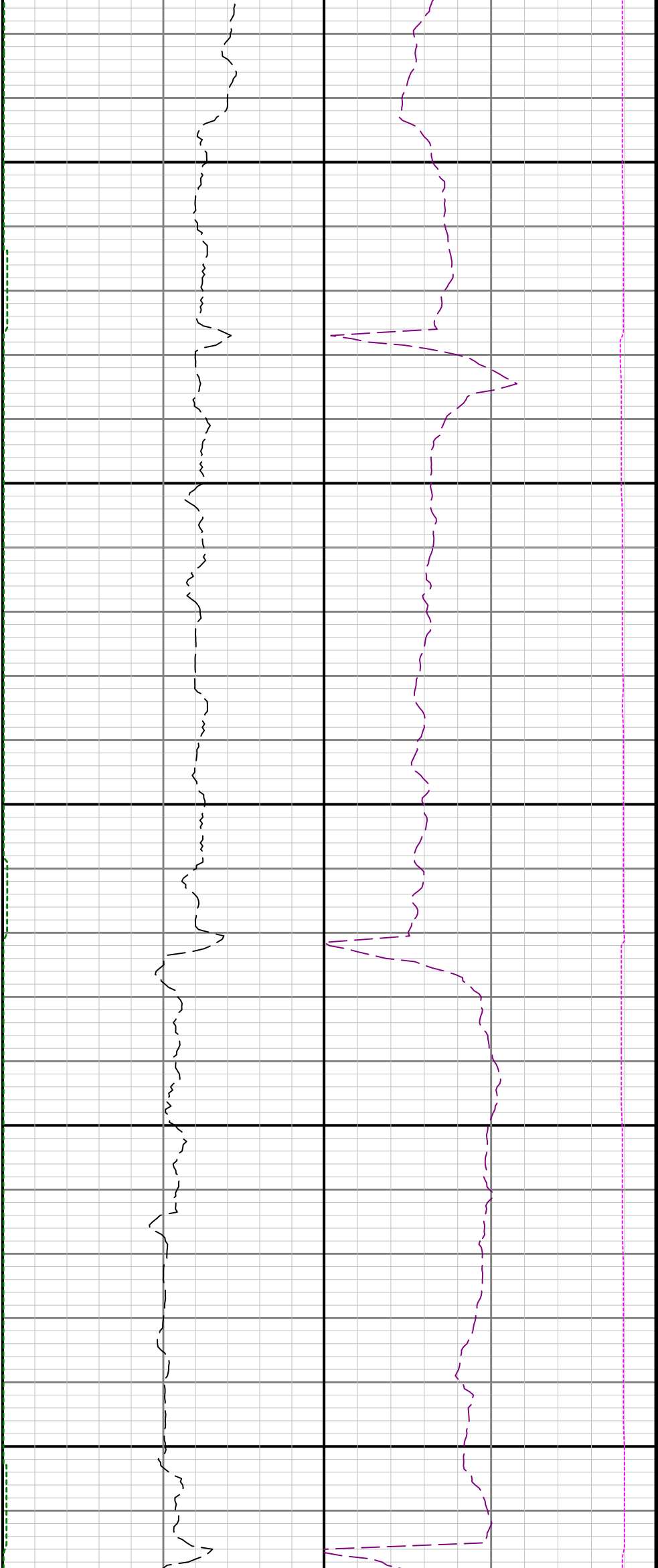






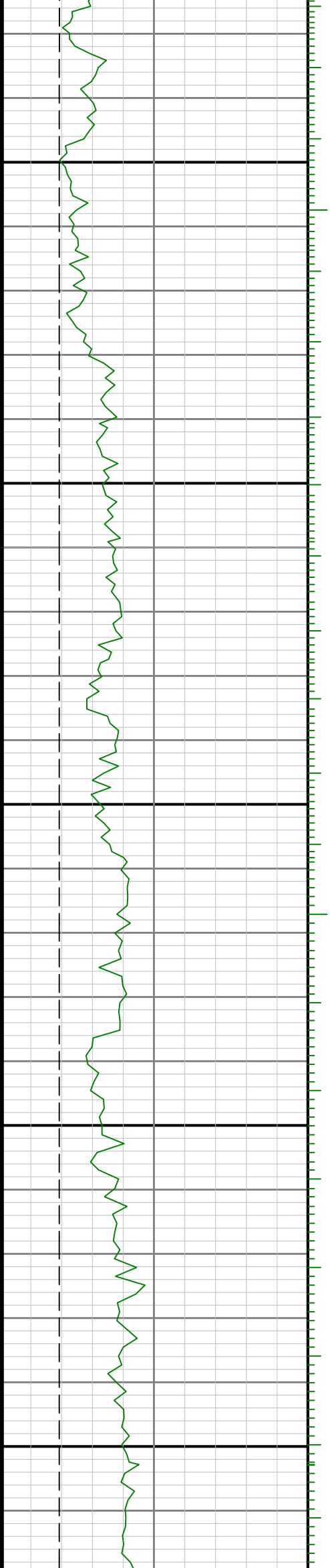
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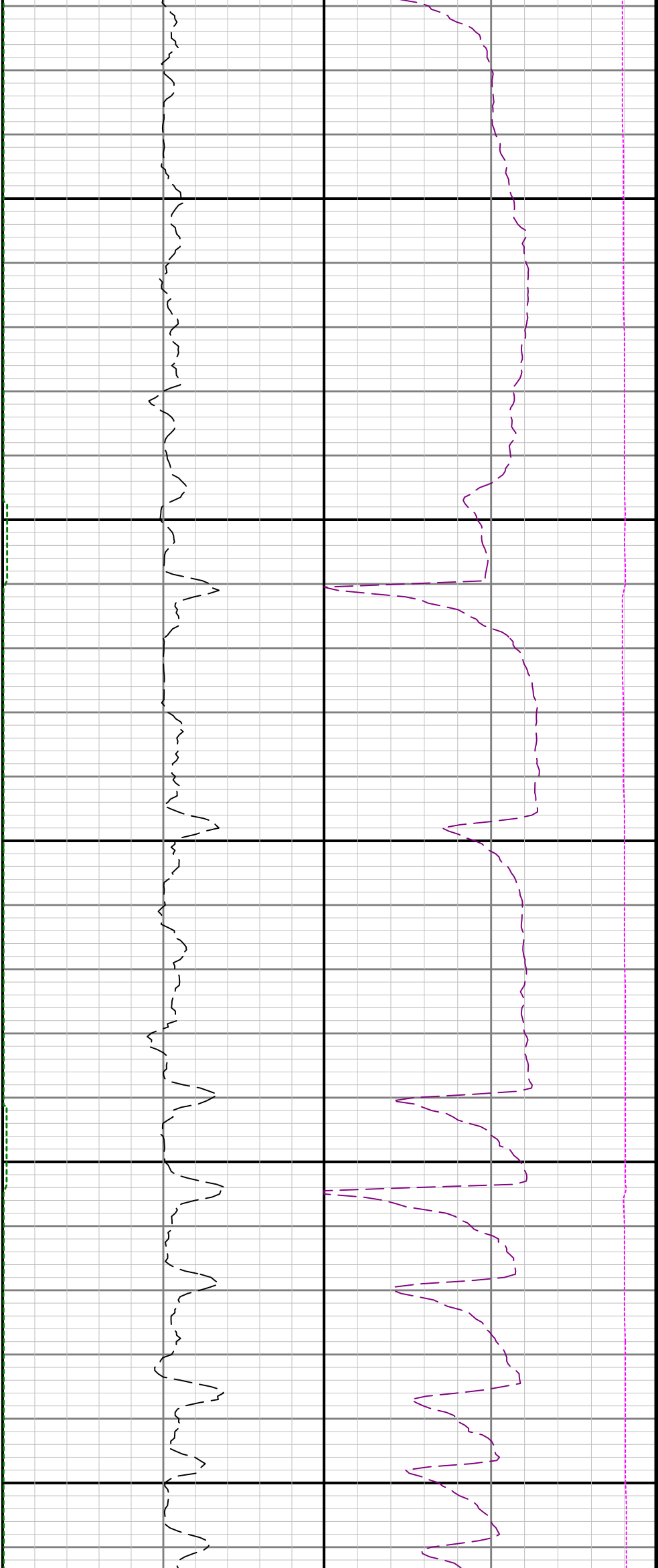




16500

16600





16700

16800

16900

