



2	AutoTrak Curve MWD	14305965	Directional (mag)	12.27	22.43	7.000	3.250
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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

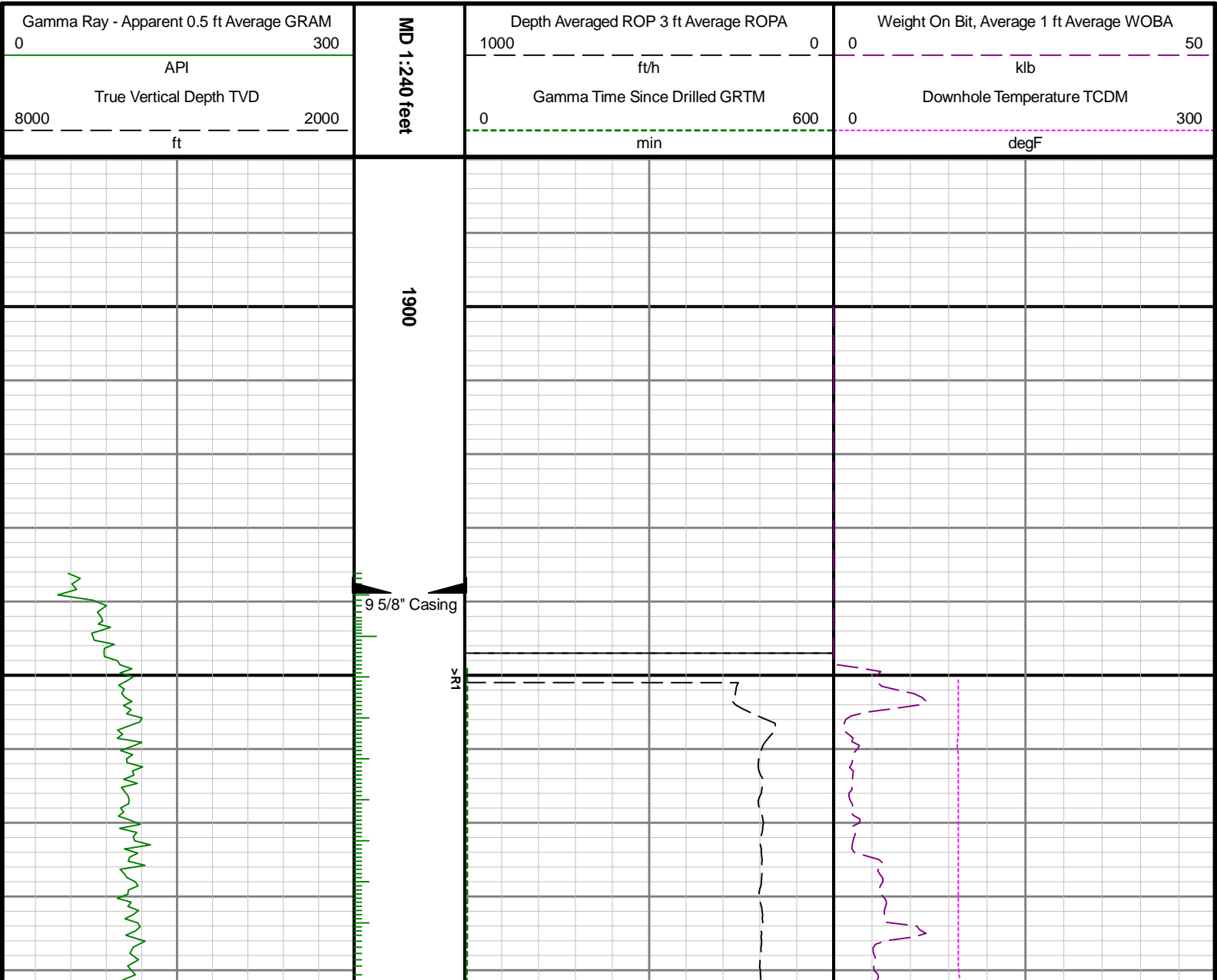
- 1 Baker Hughes Company runs 1 and 2 utilized 6 ¾ inch NaviGamma services (Gamma Ray and Directional) behind an 8 ½ inch PDC bit and rotary steerable assembly from 1949 to 17386 feet MD (1949 to 6727 feet TVD).
- 2 Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to a lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes 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.

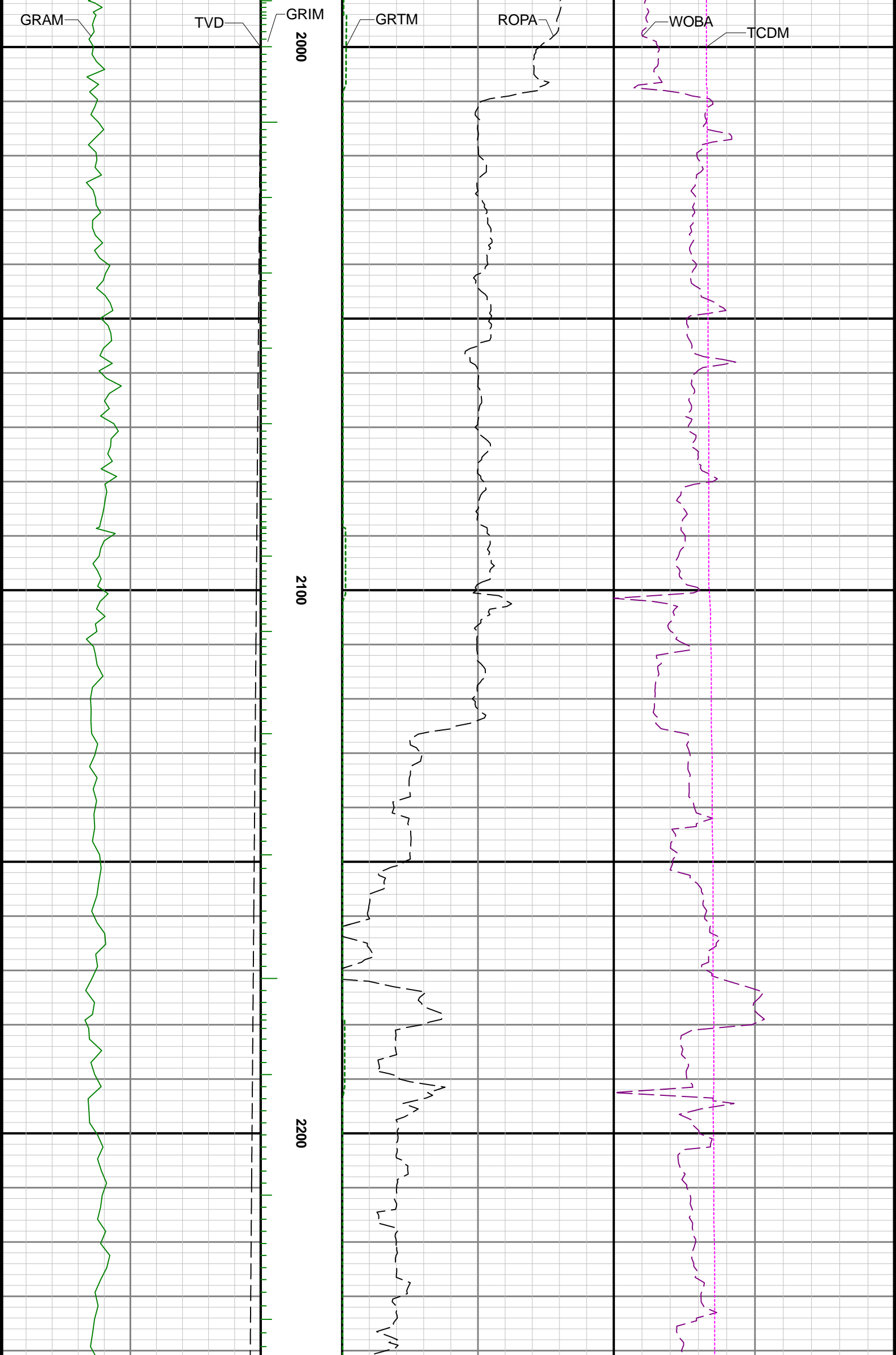
Remarks

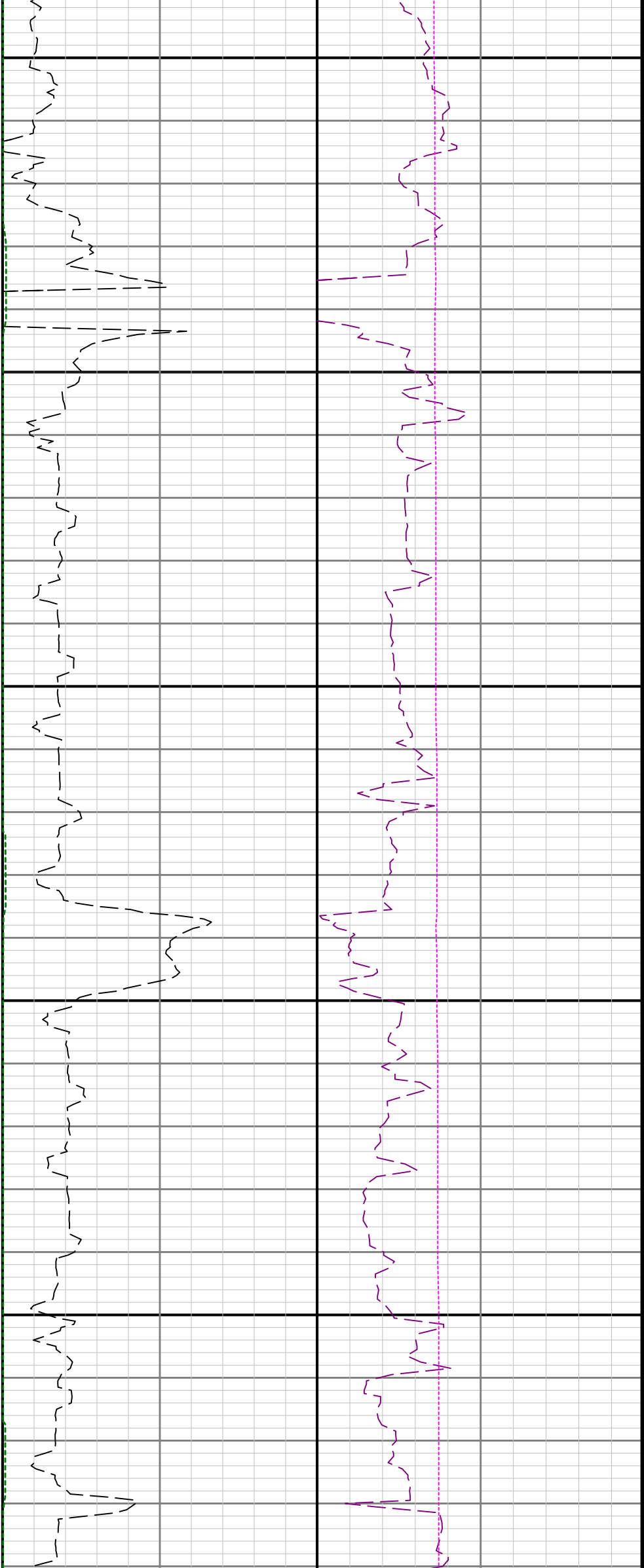
Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	4350.00	8.500	1	The interval from 4342 to 5964 feet MD (4305 to 5882 feet TVD) was not logged due to down-hole tool failure and clients request not to re-log.
2	17380.00	8.500	2	The interval from 17373 to 17386 feet MD (6729 to 6729 feet TVD) was not 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

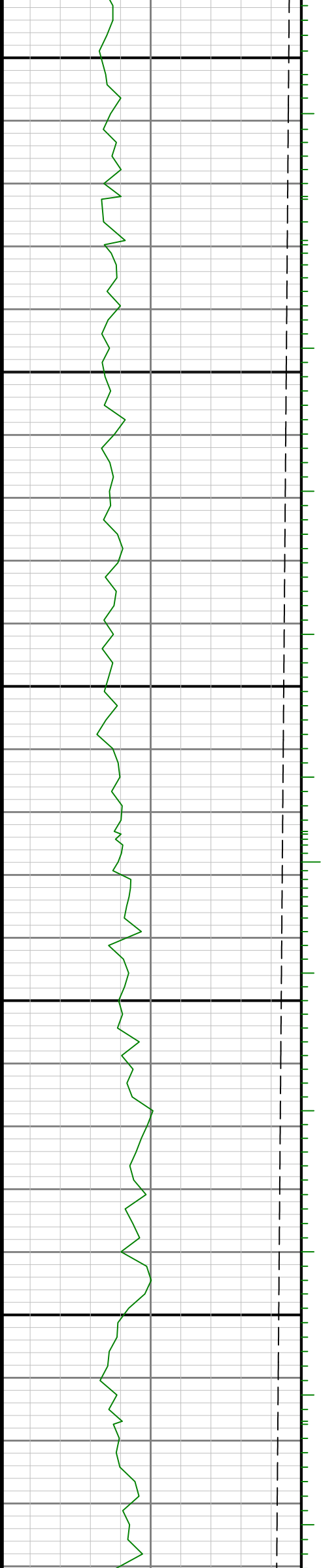


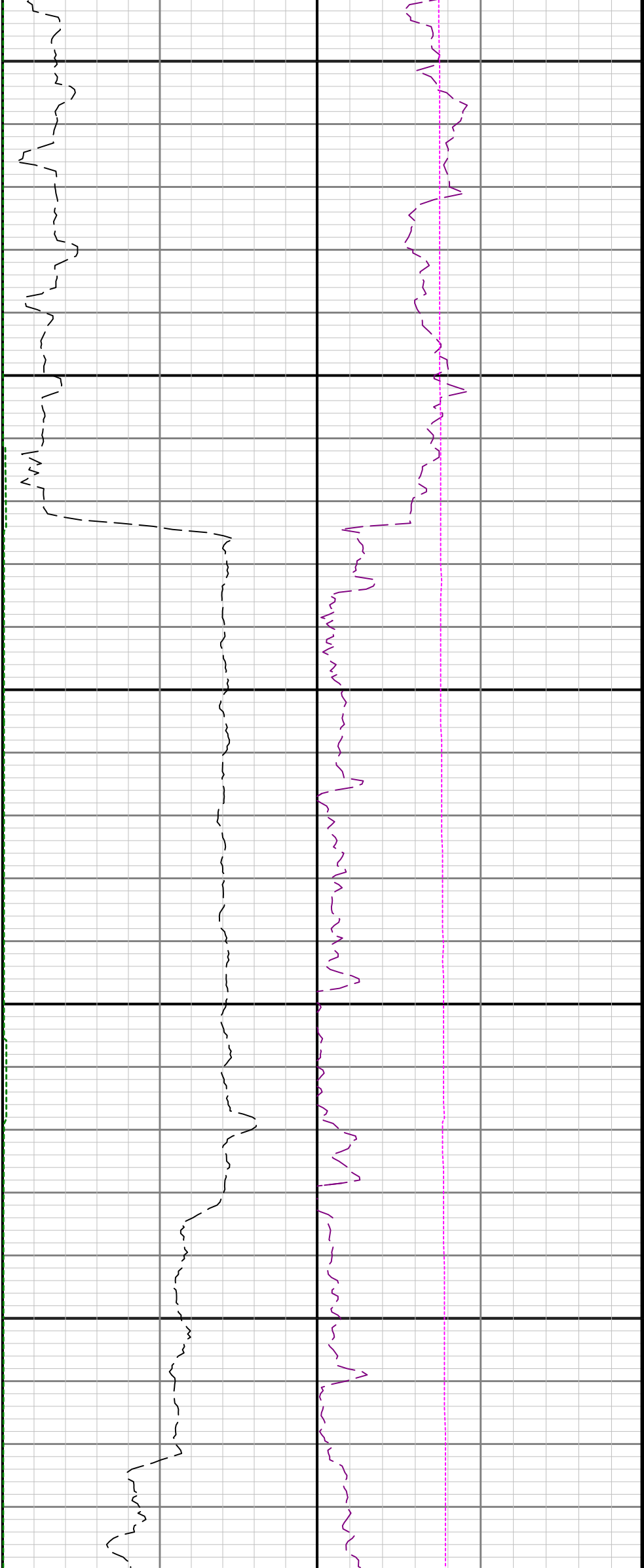




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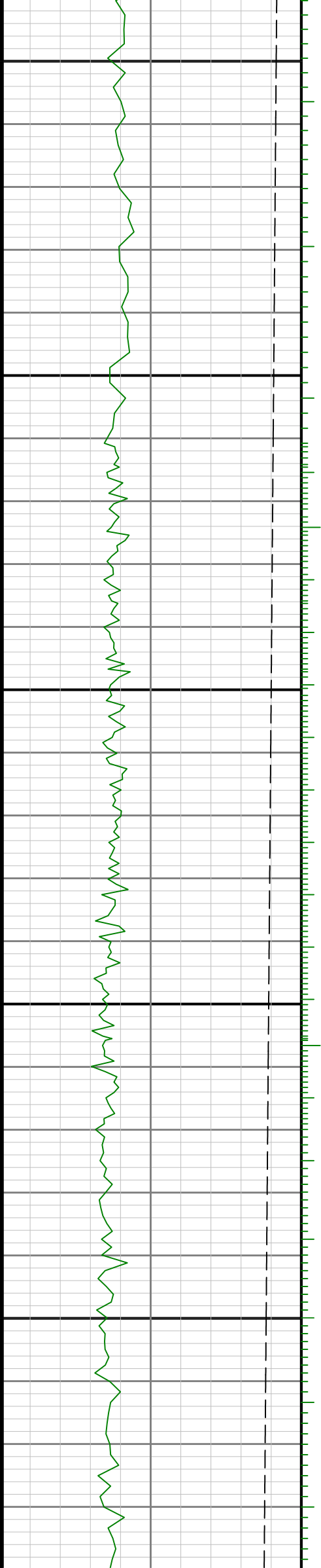


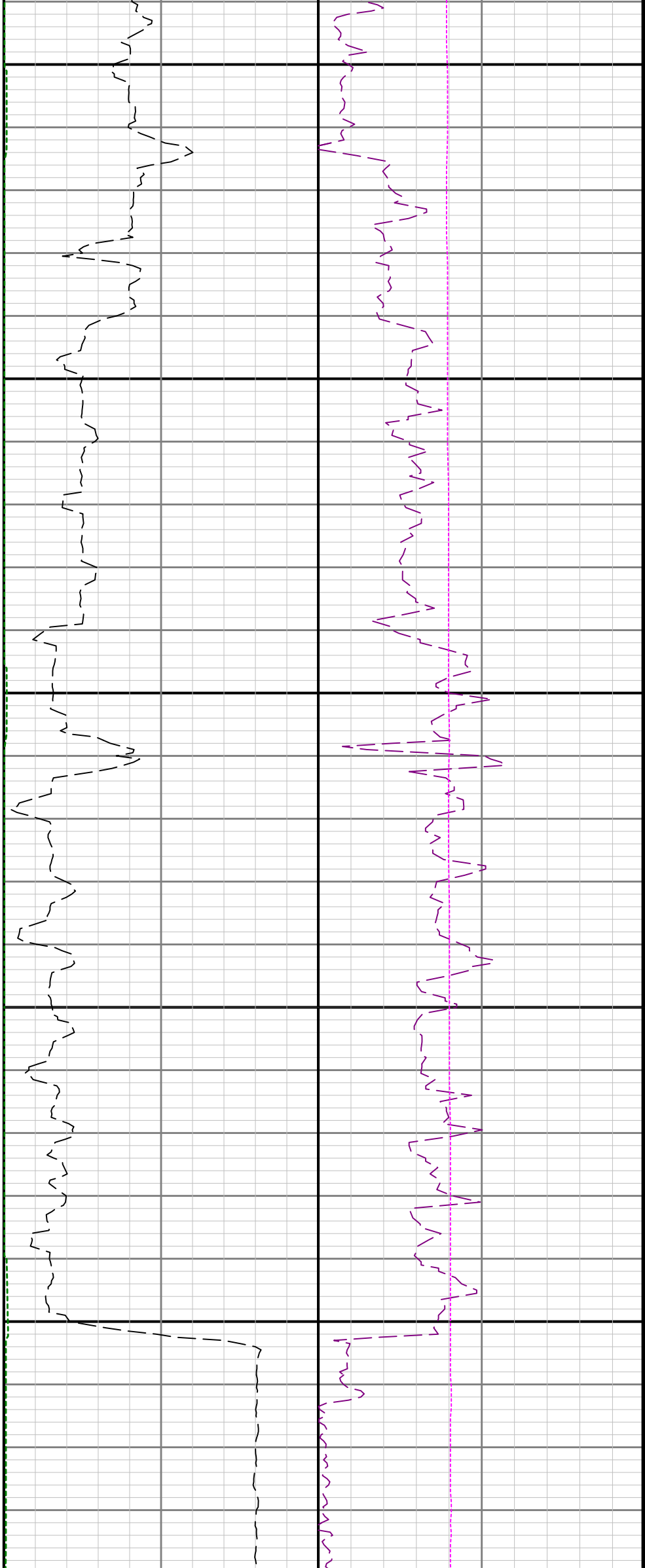


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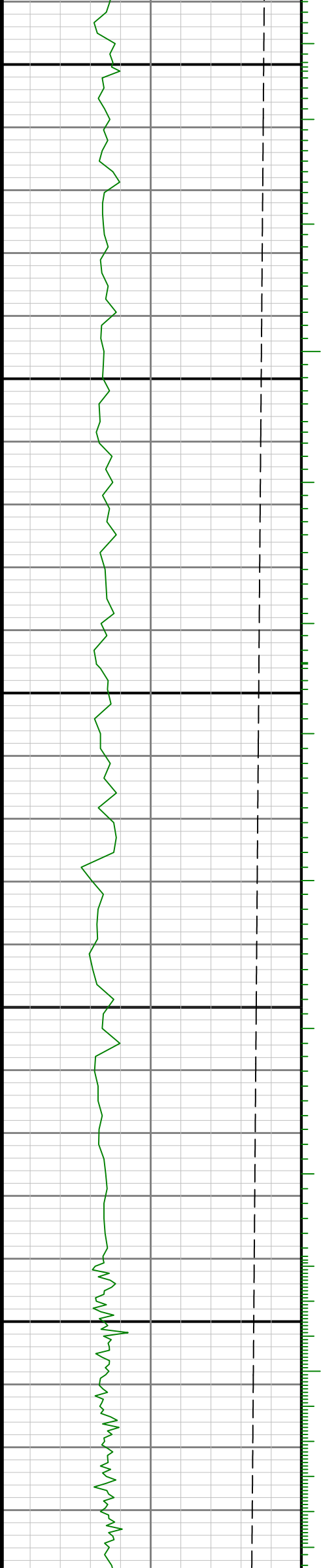
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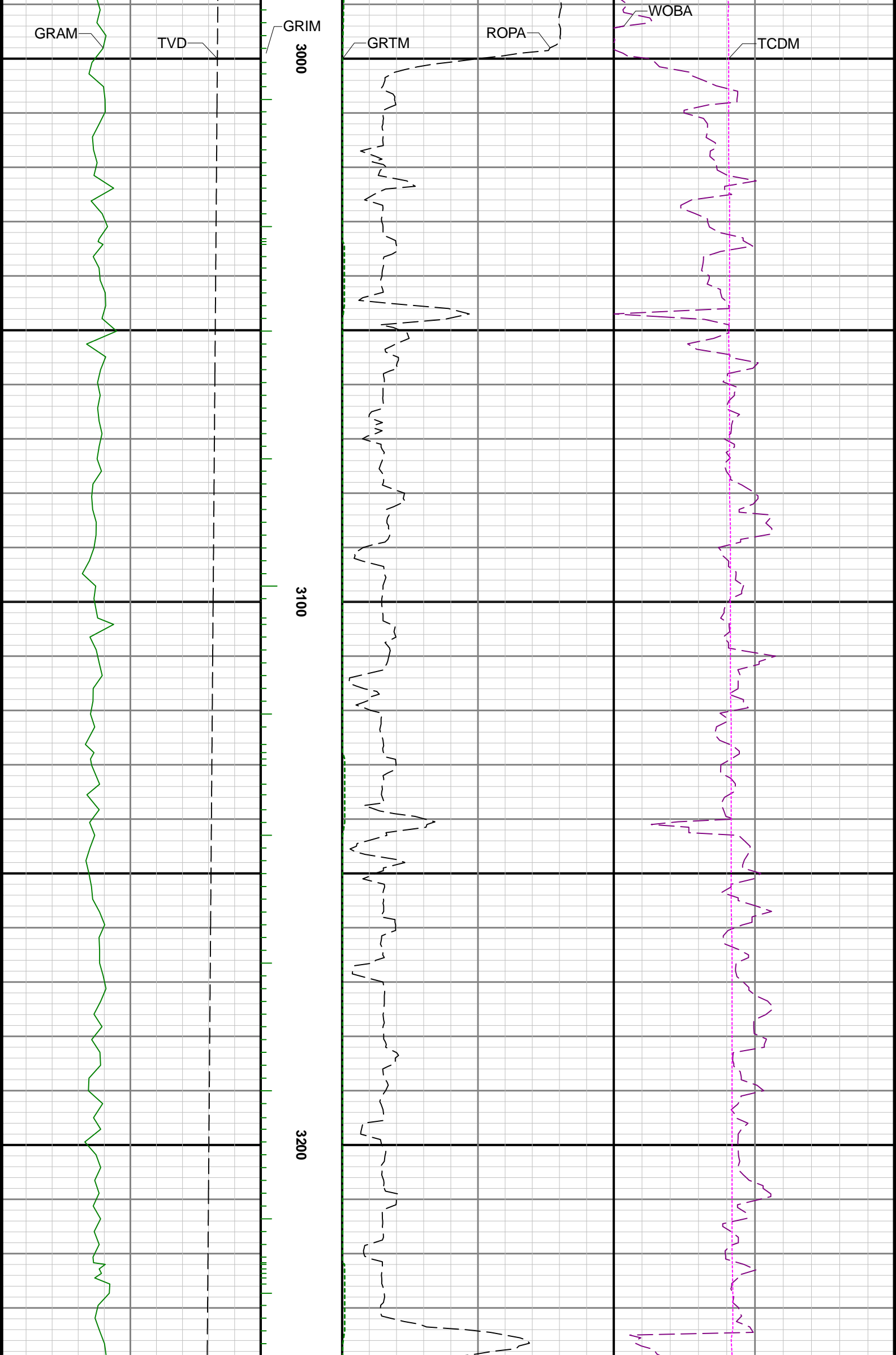


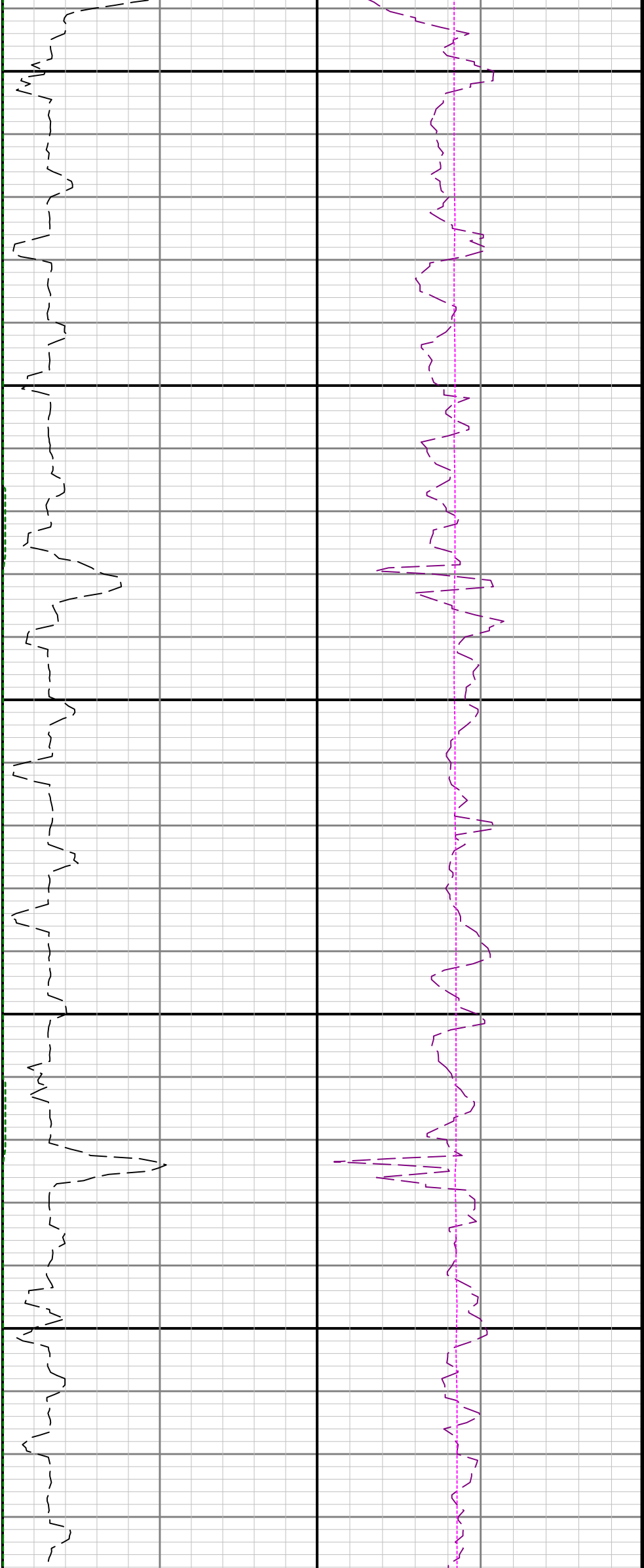


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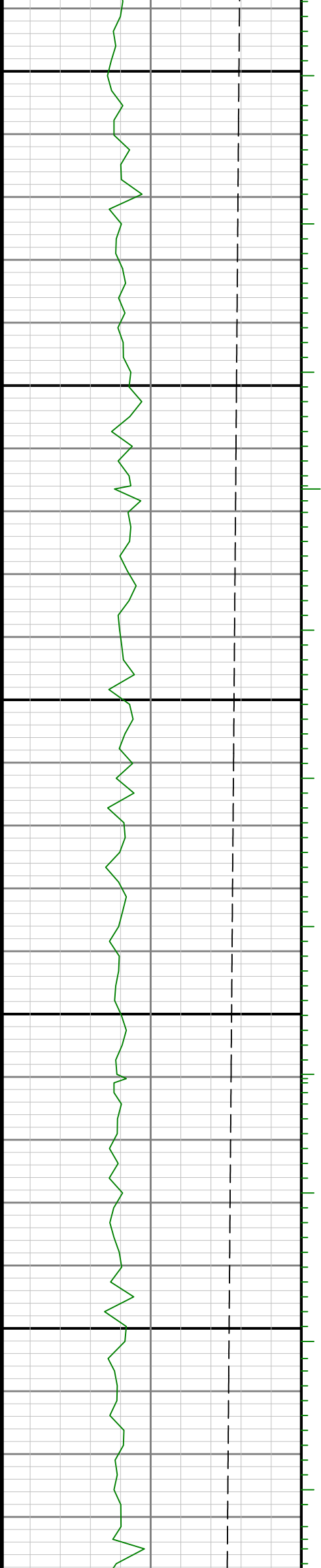




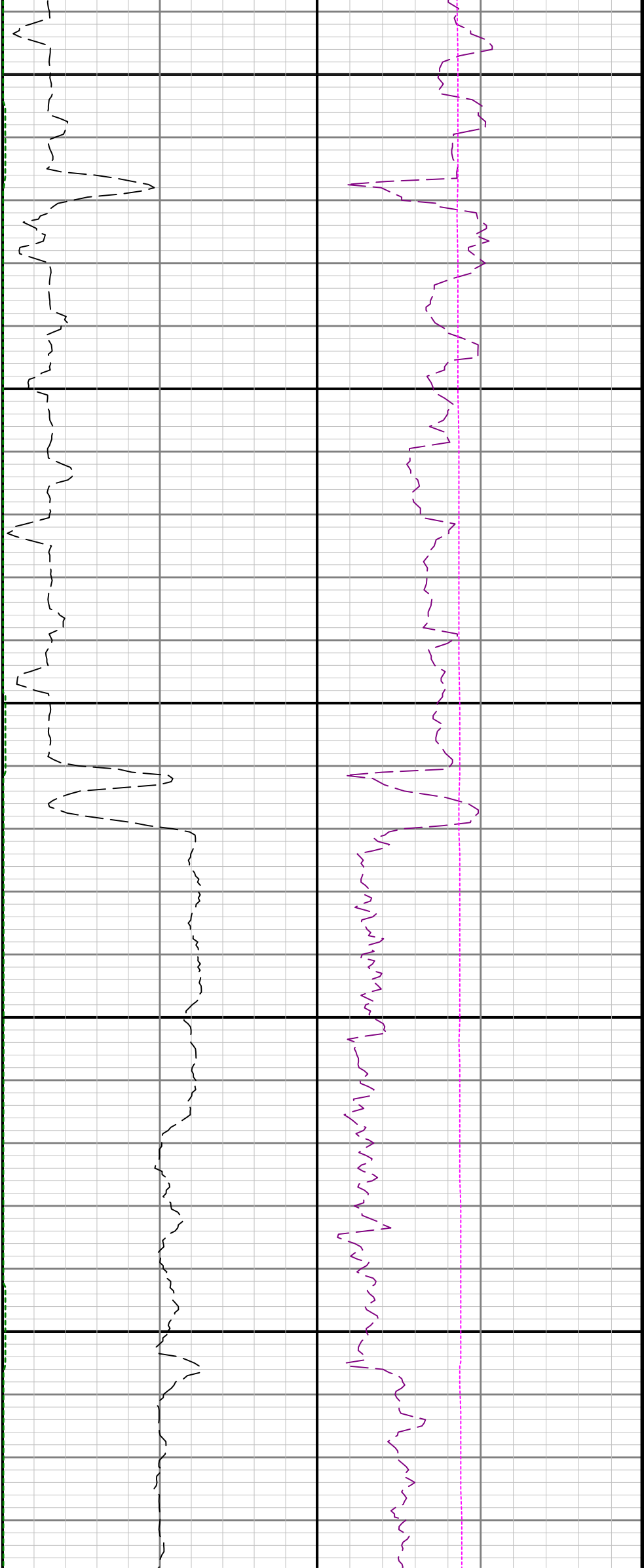


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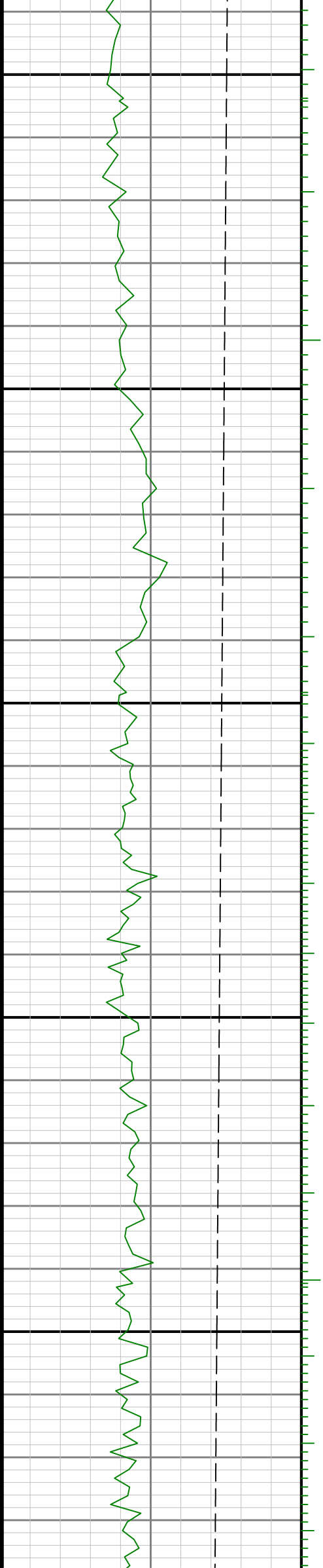


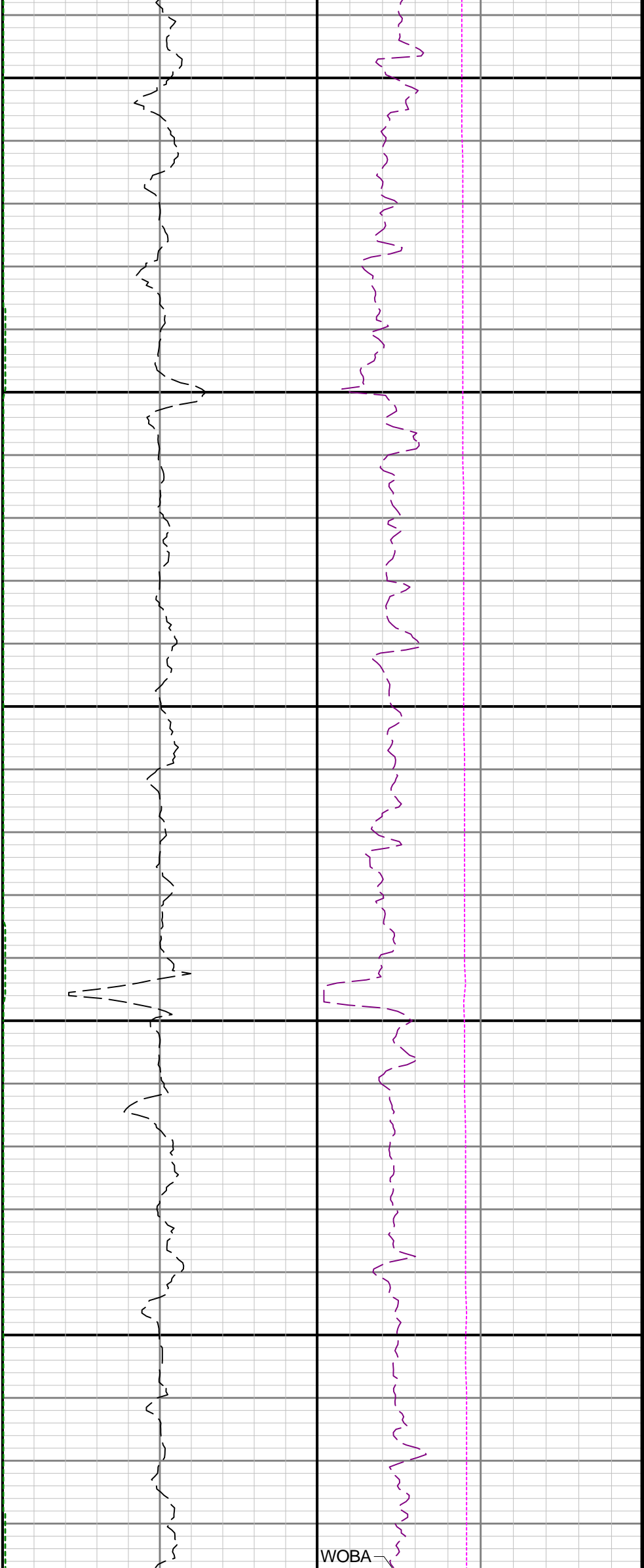


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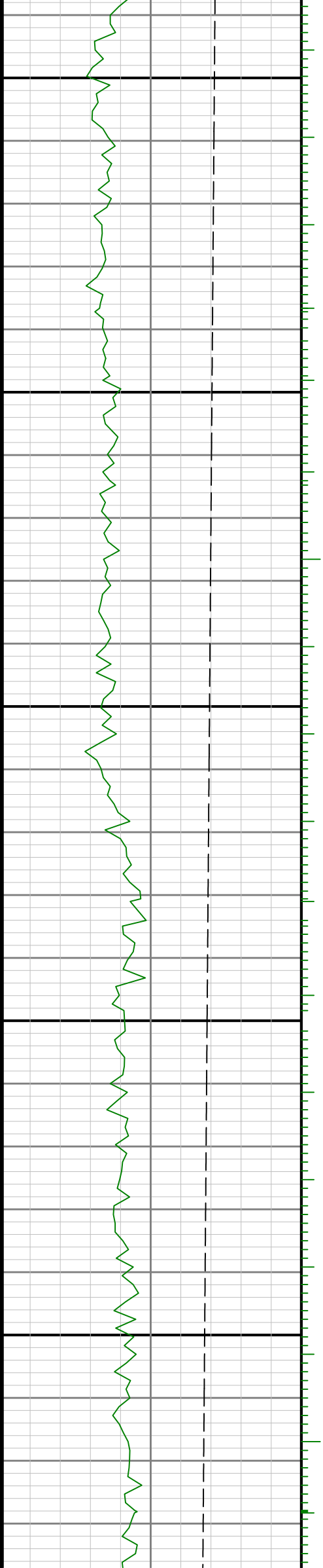


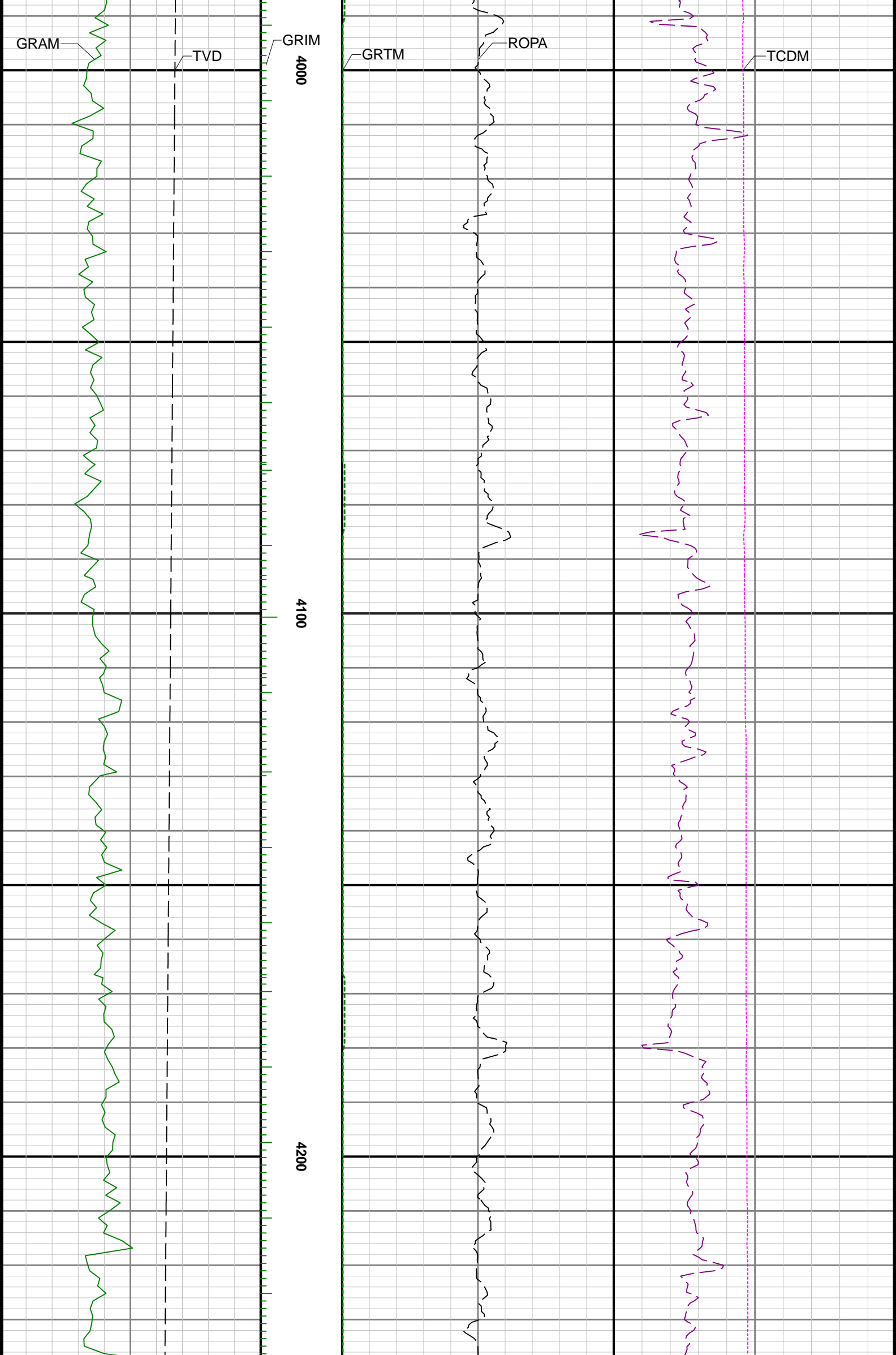


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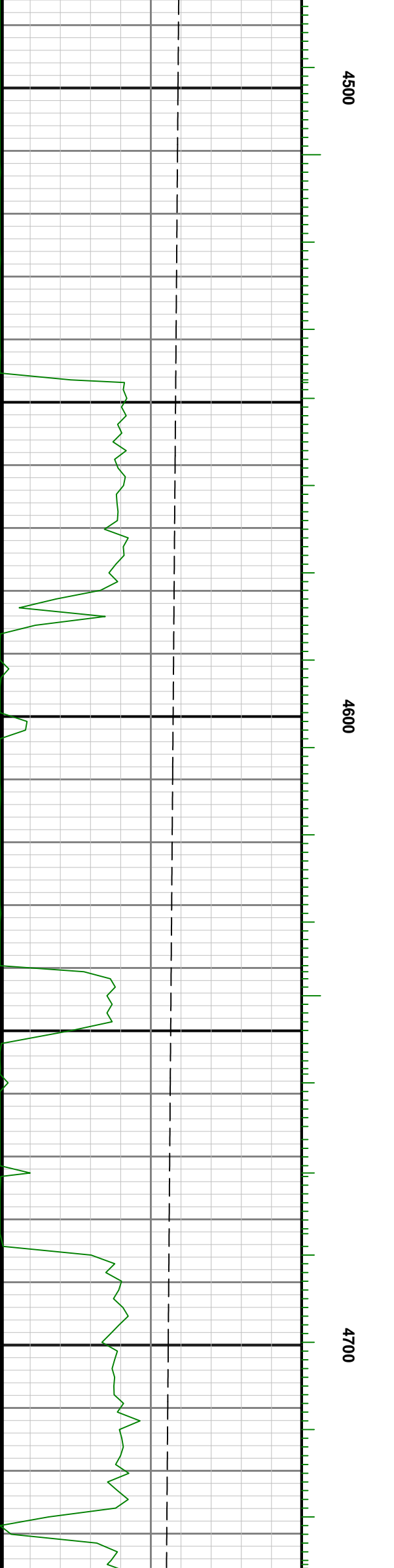
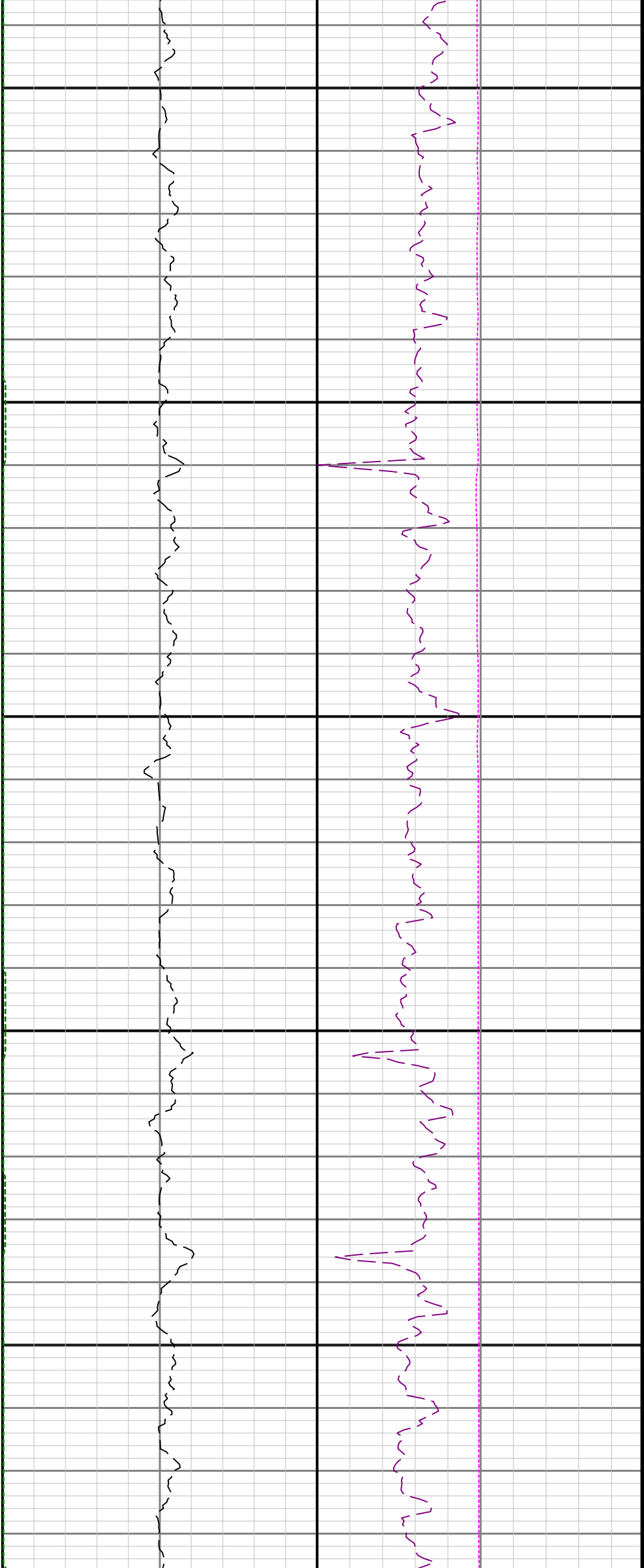
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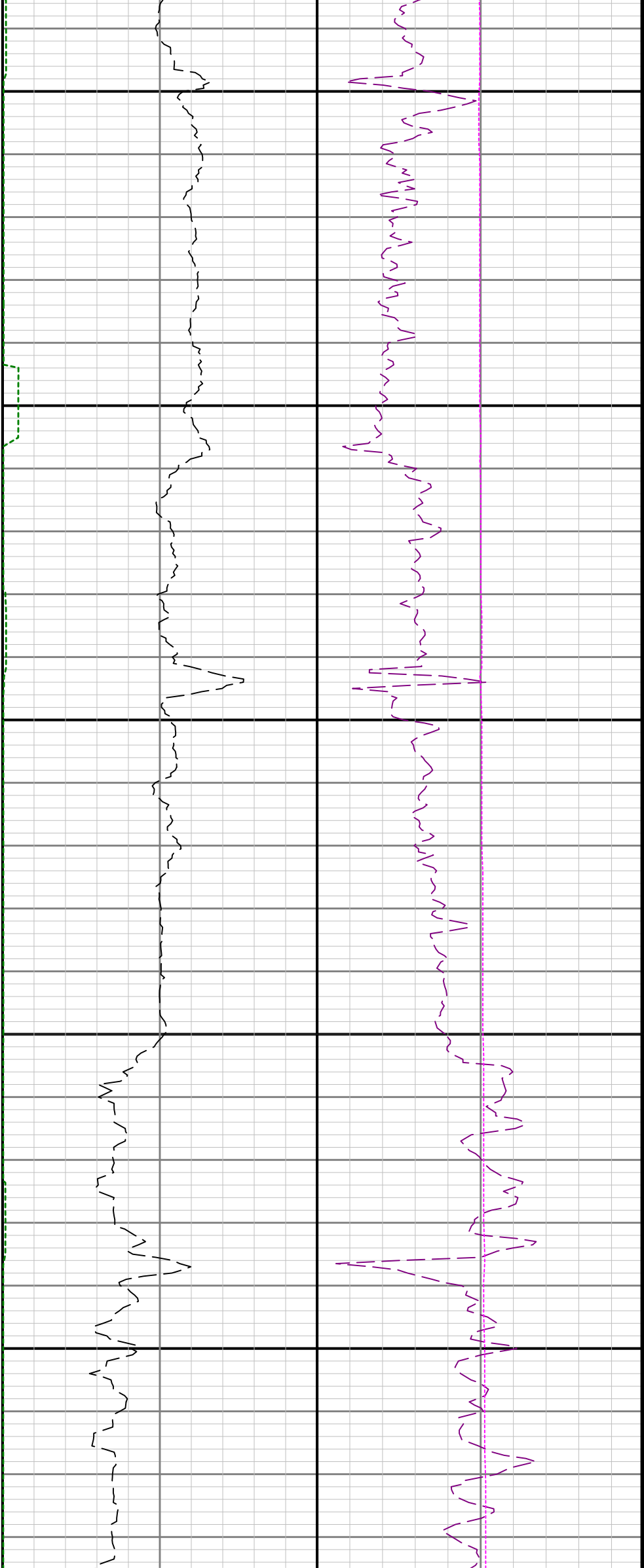
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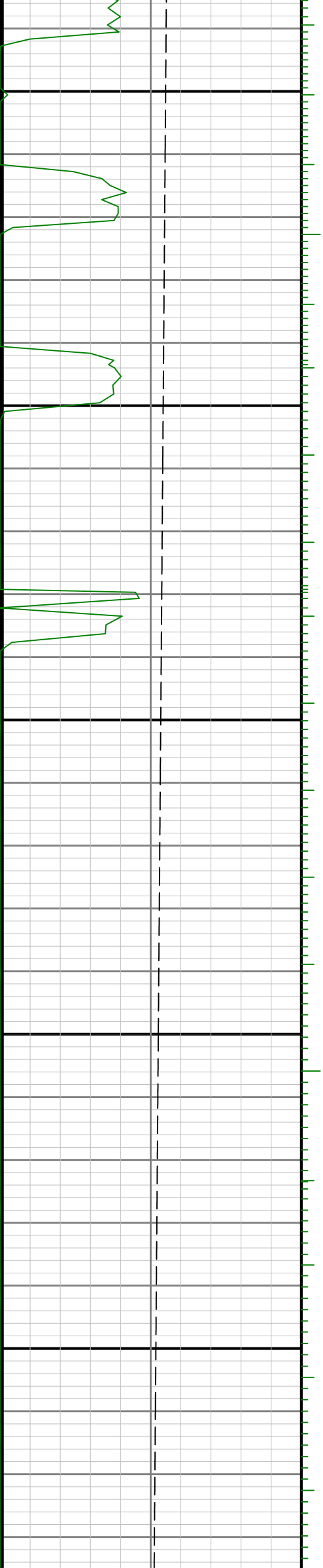


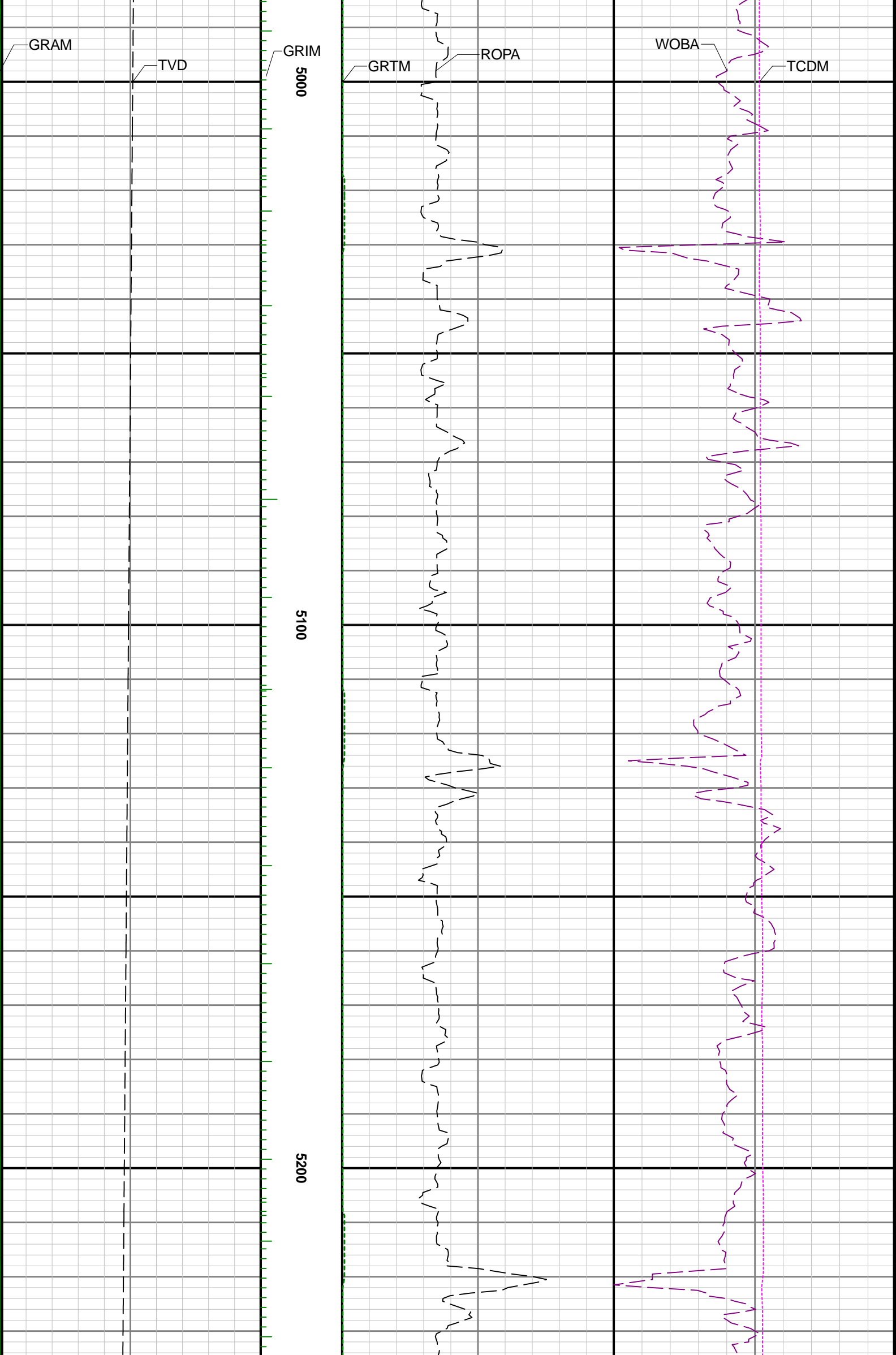


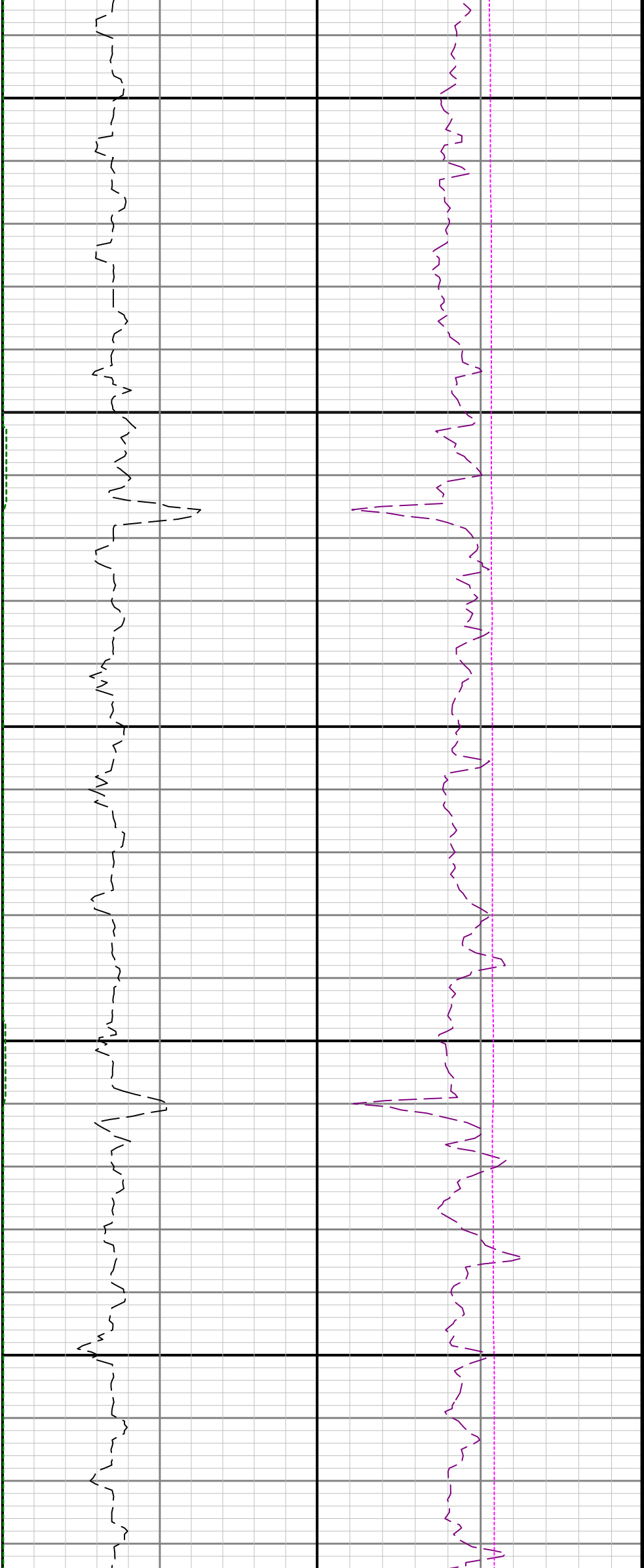


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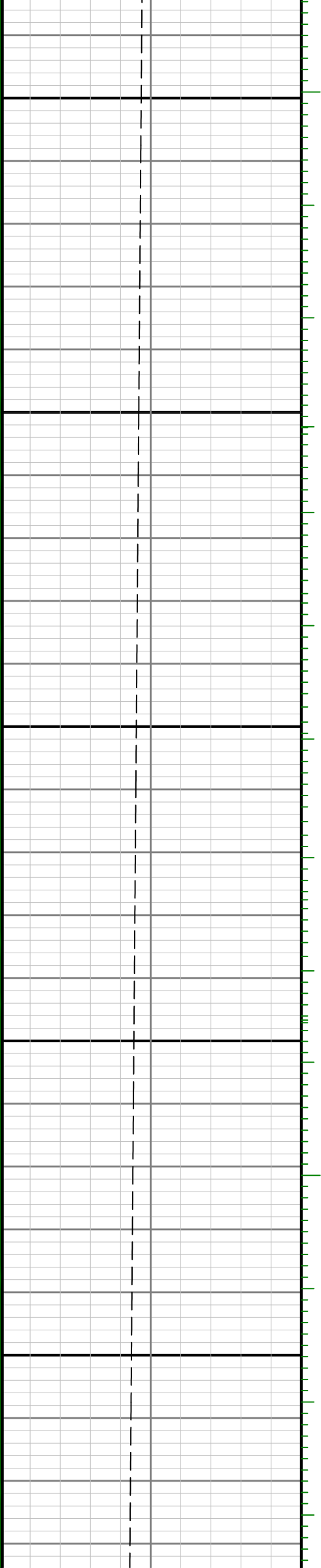




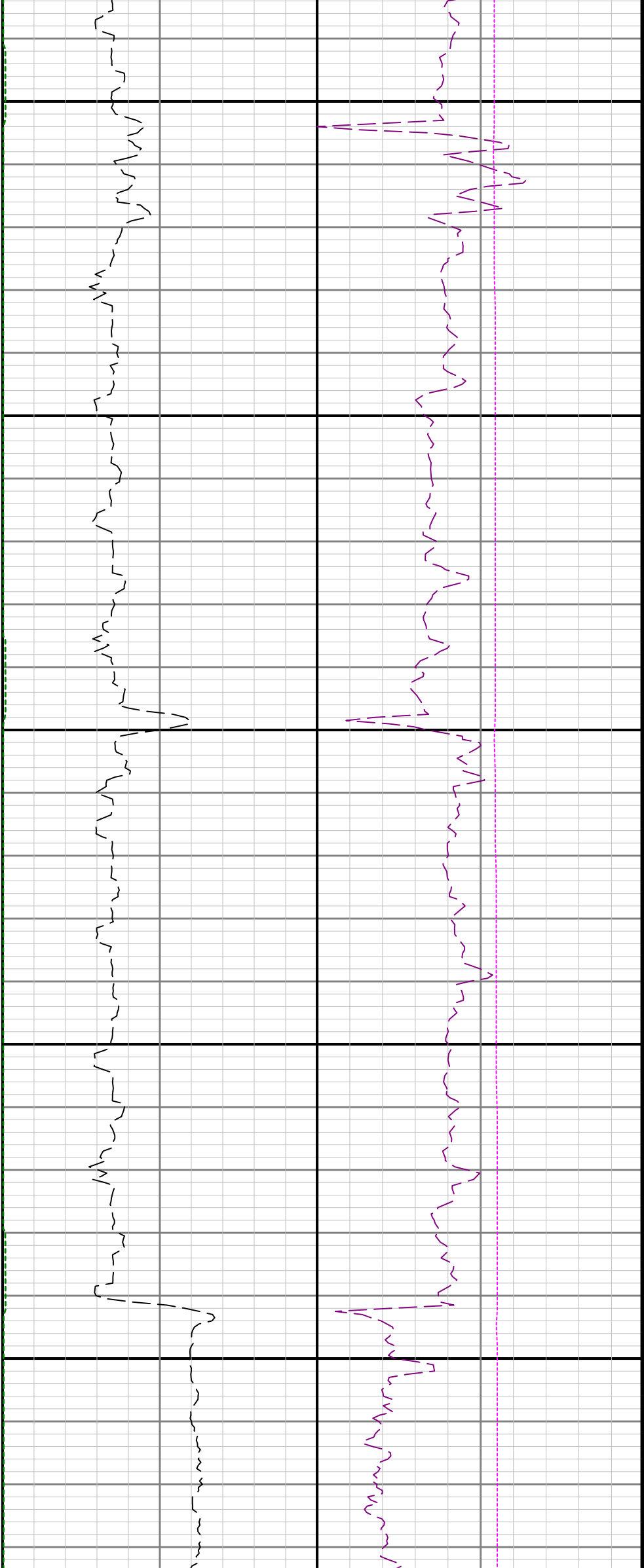


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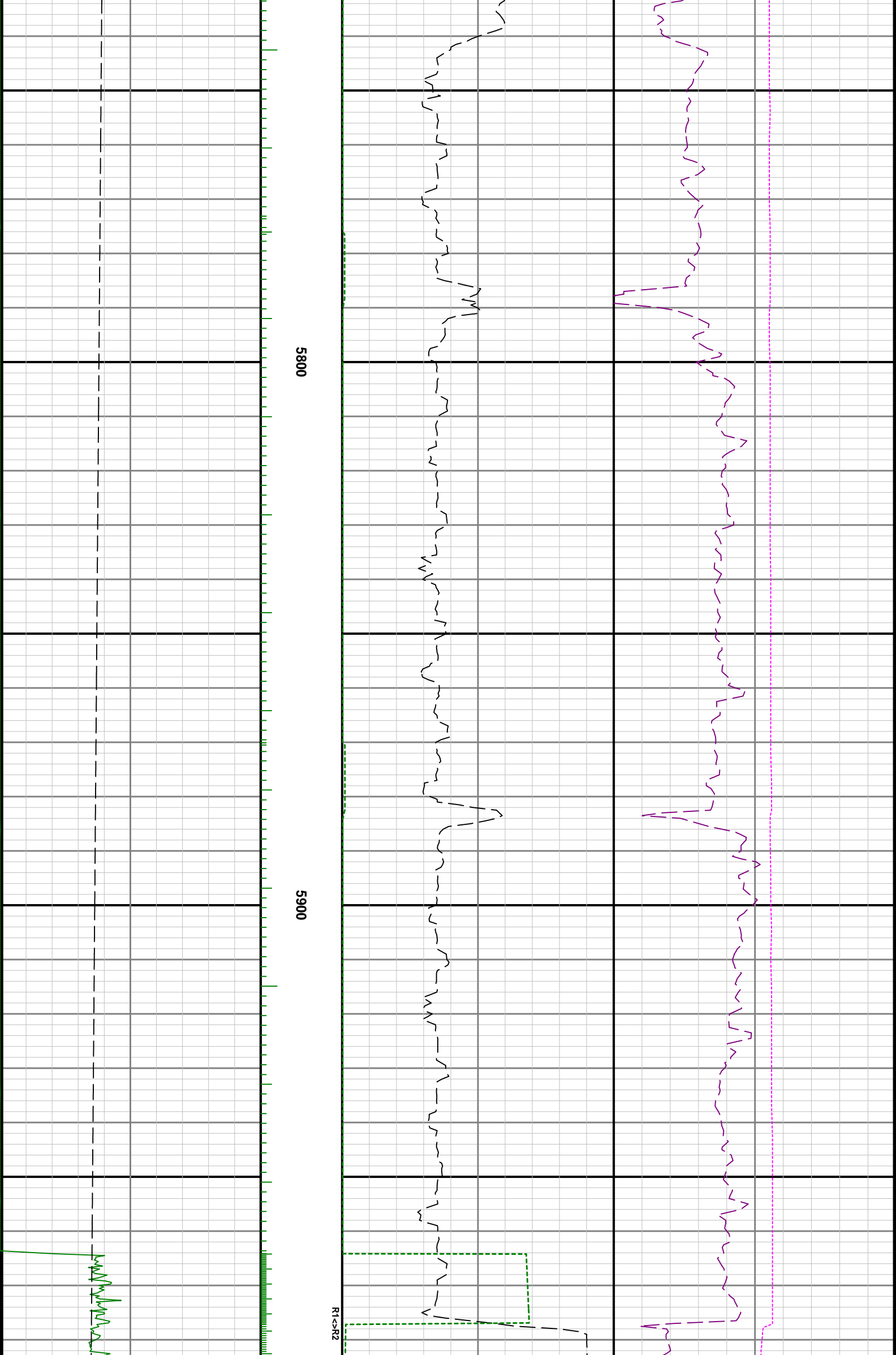


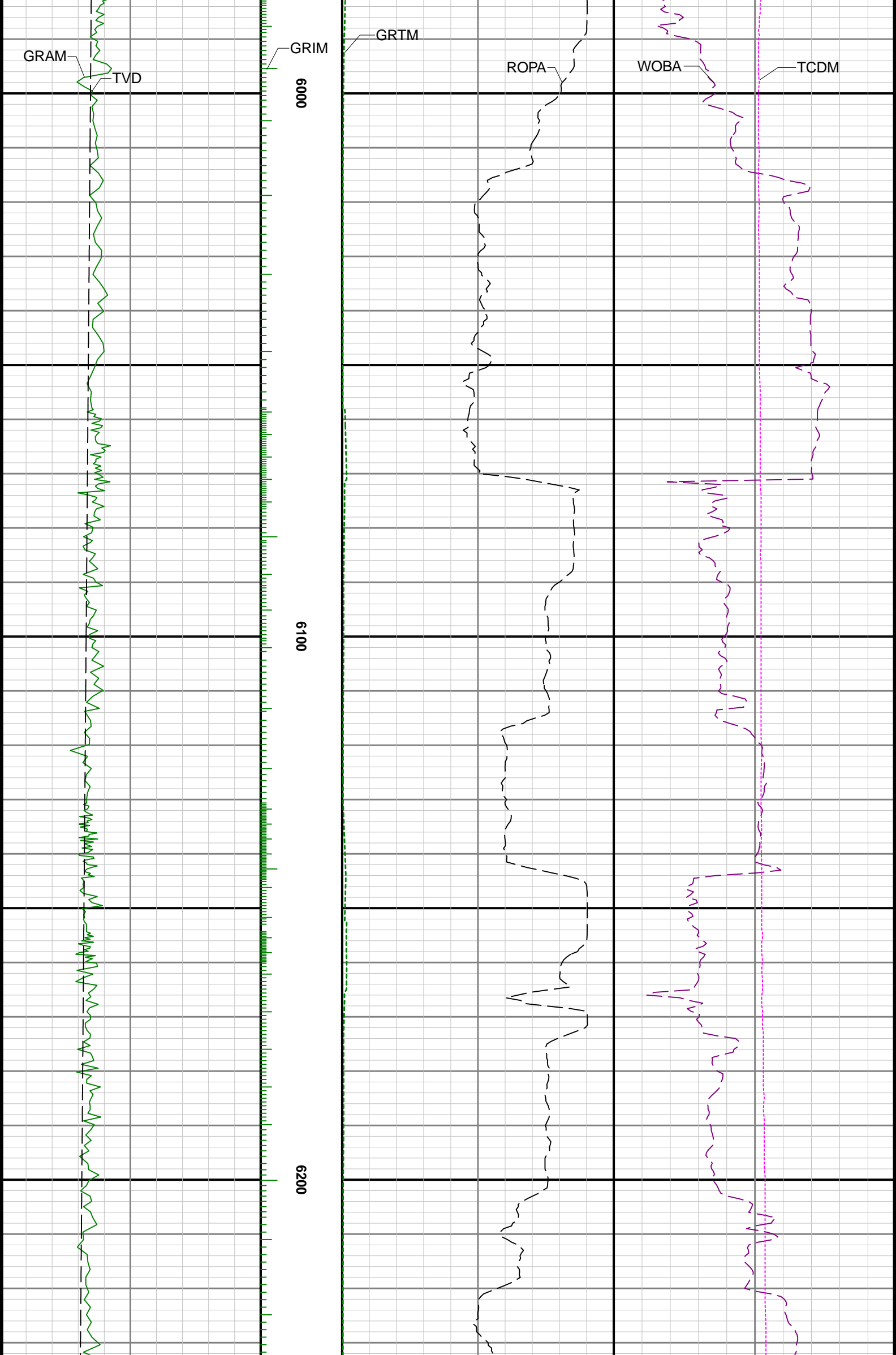


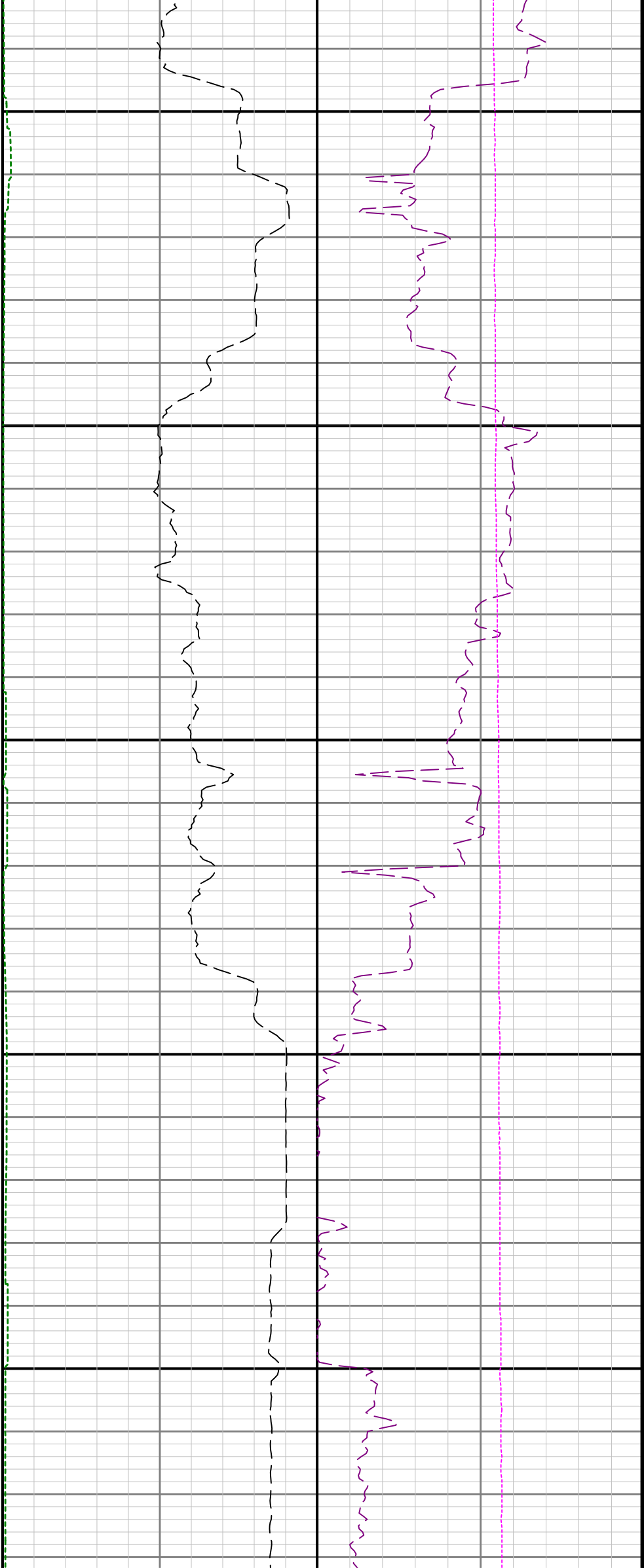
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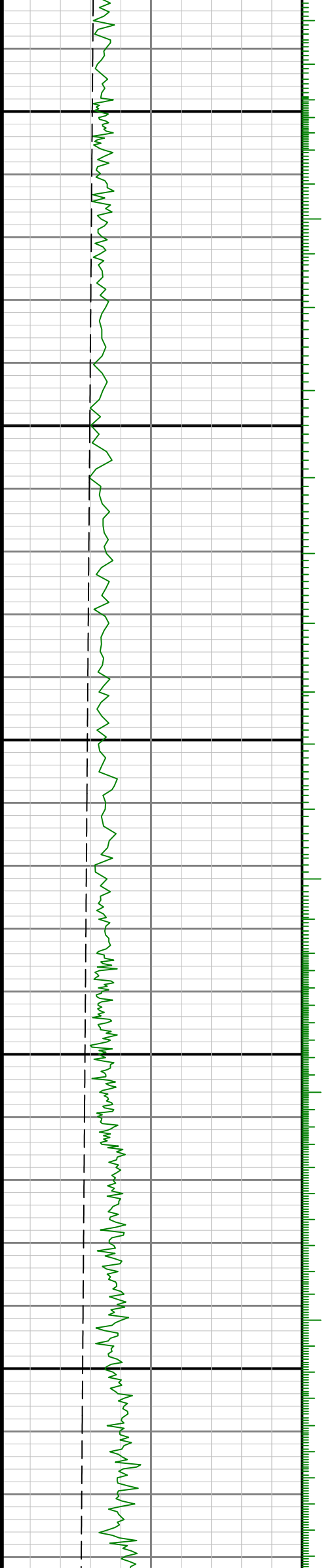


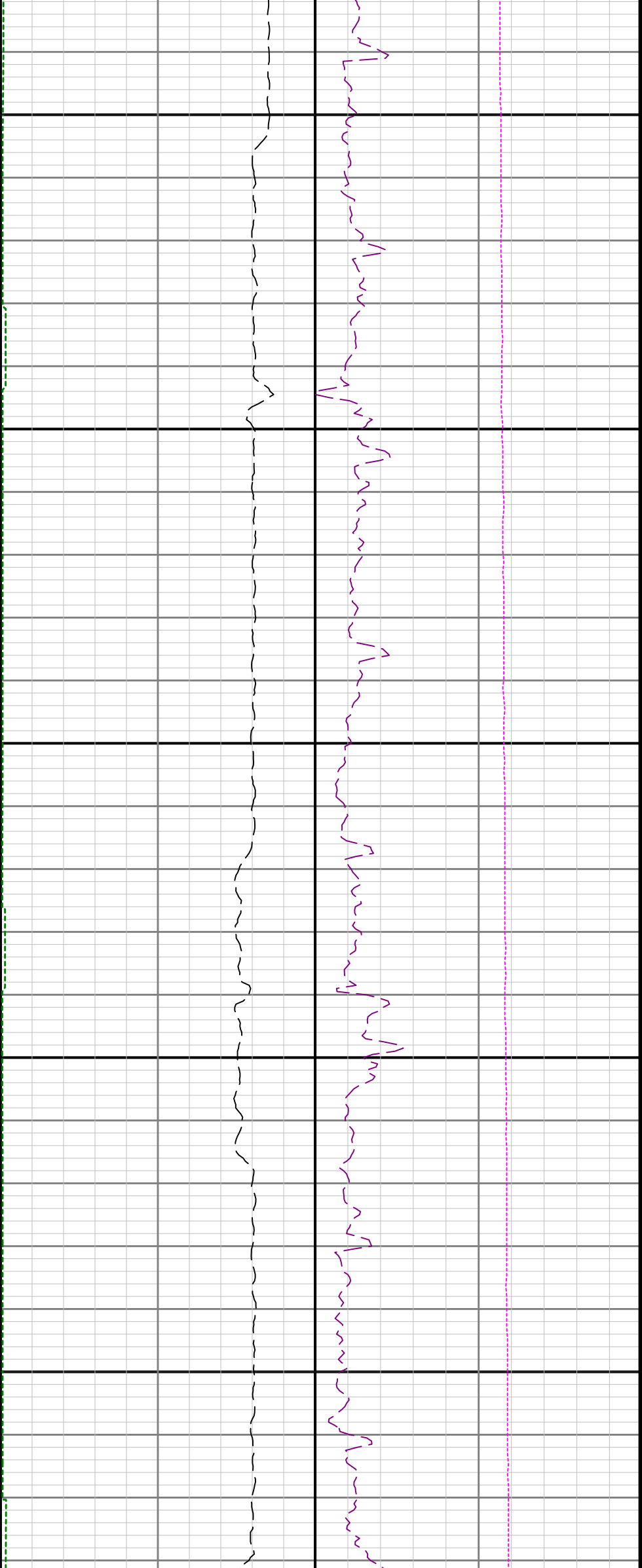




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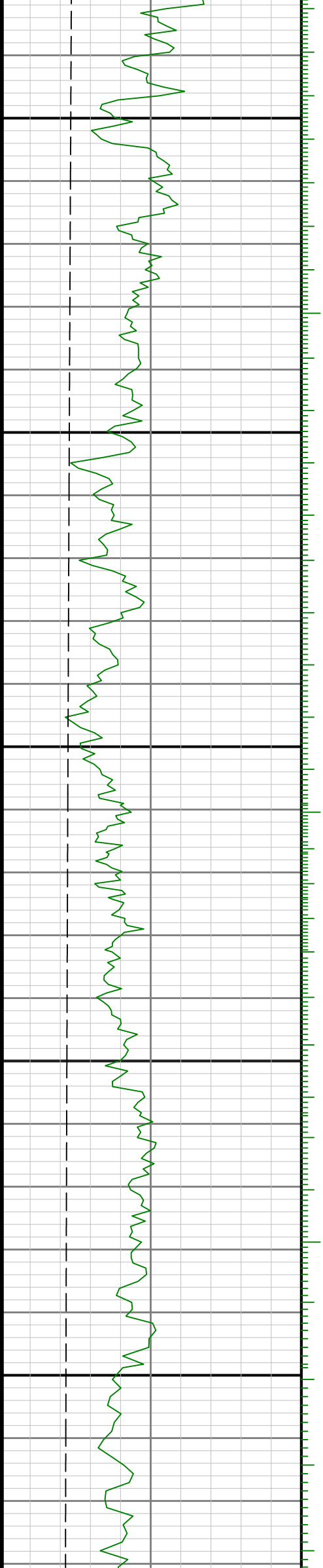




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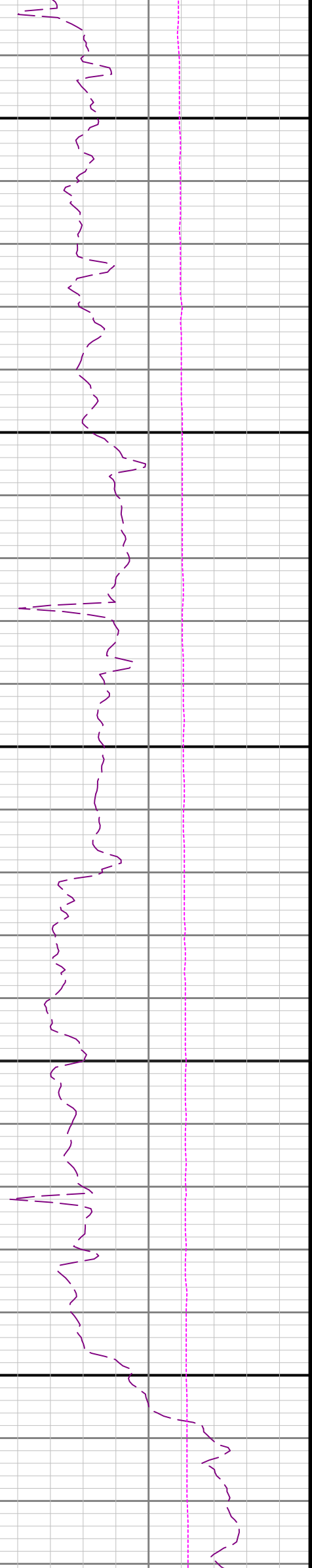
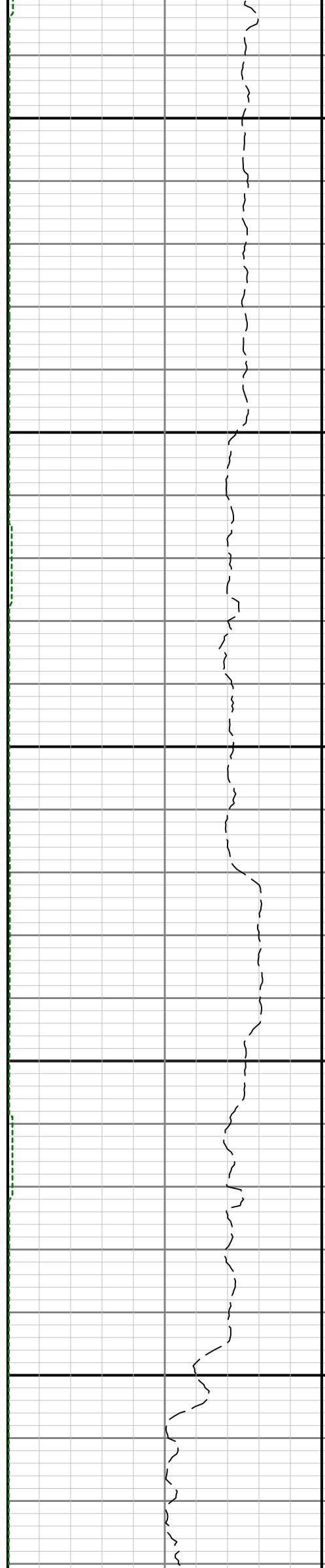
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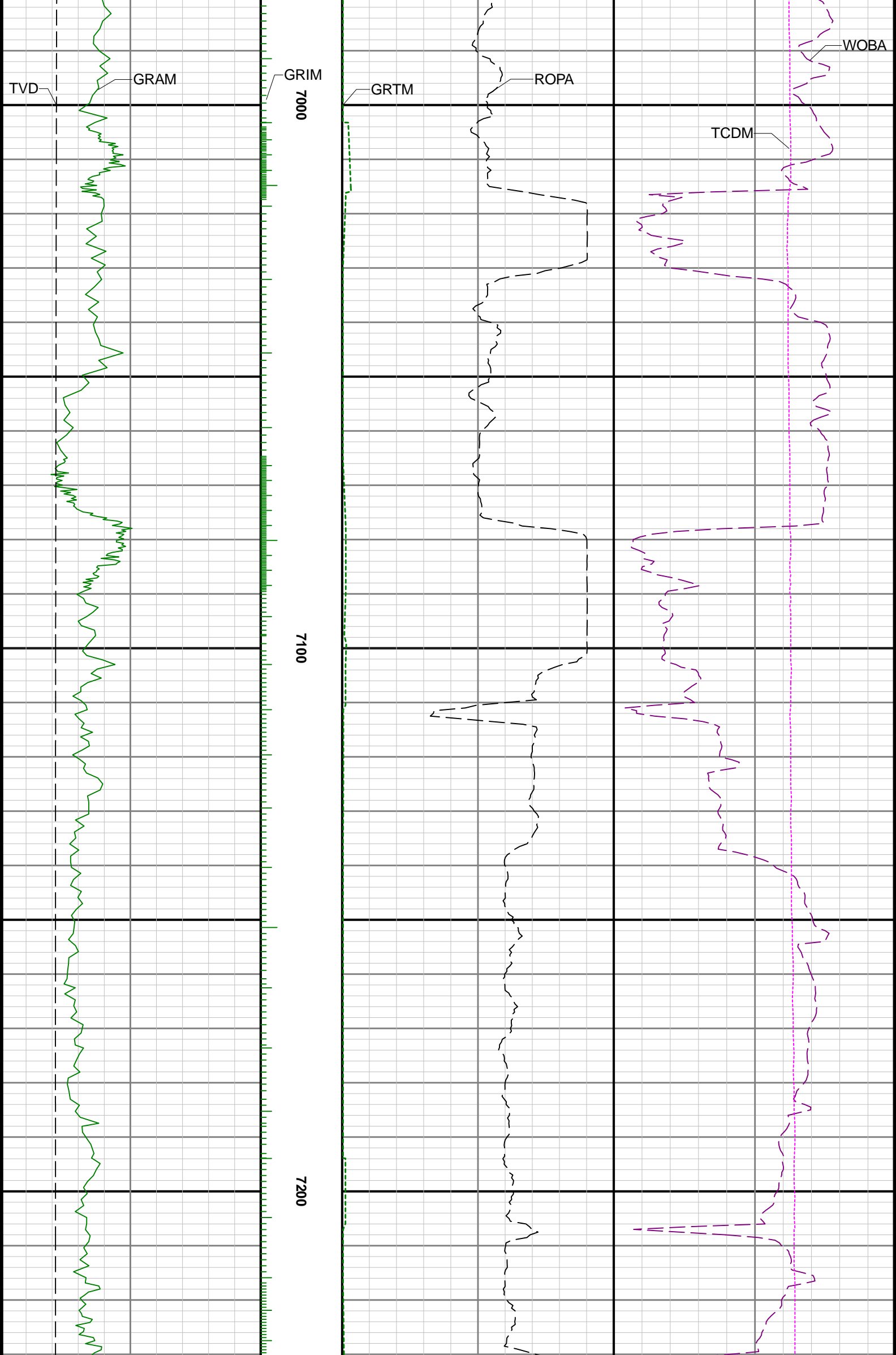
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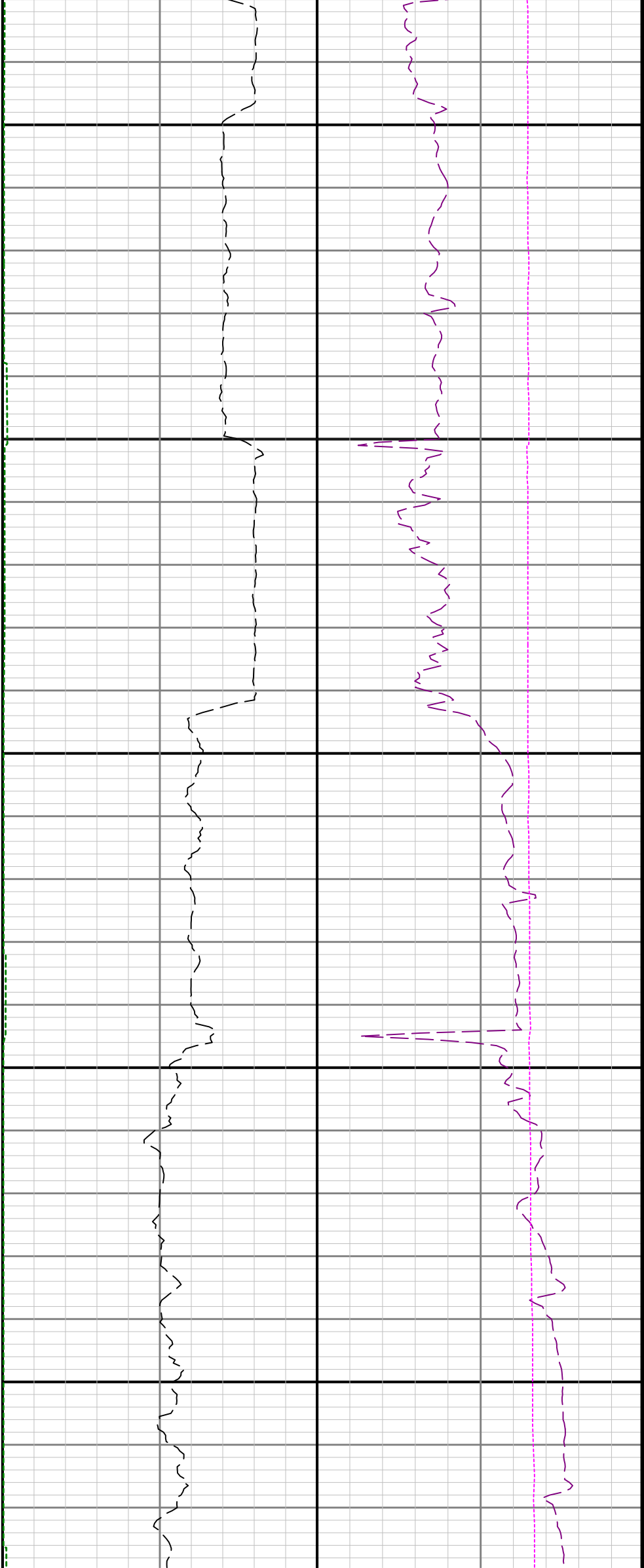


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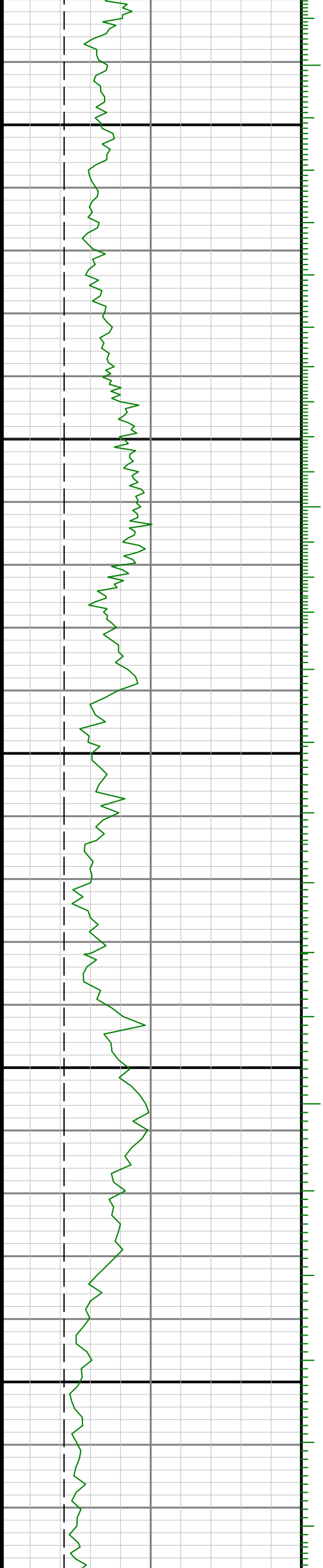




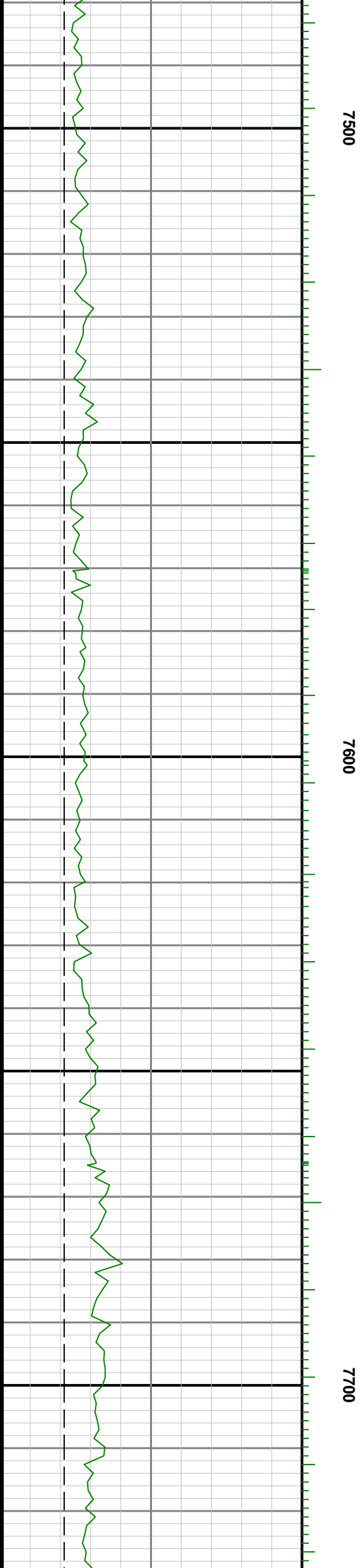


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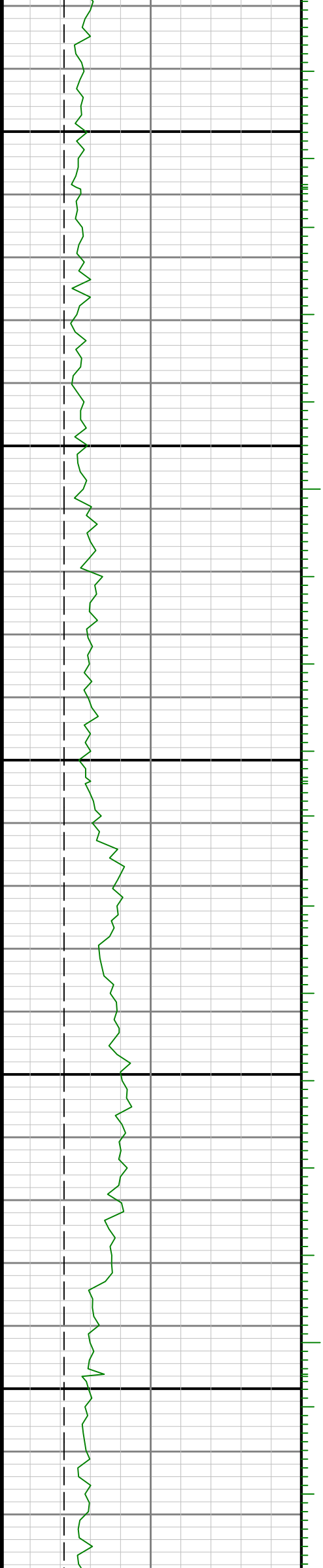


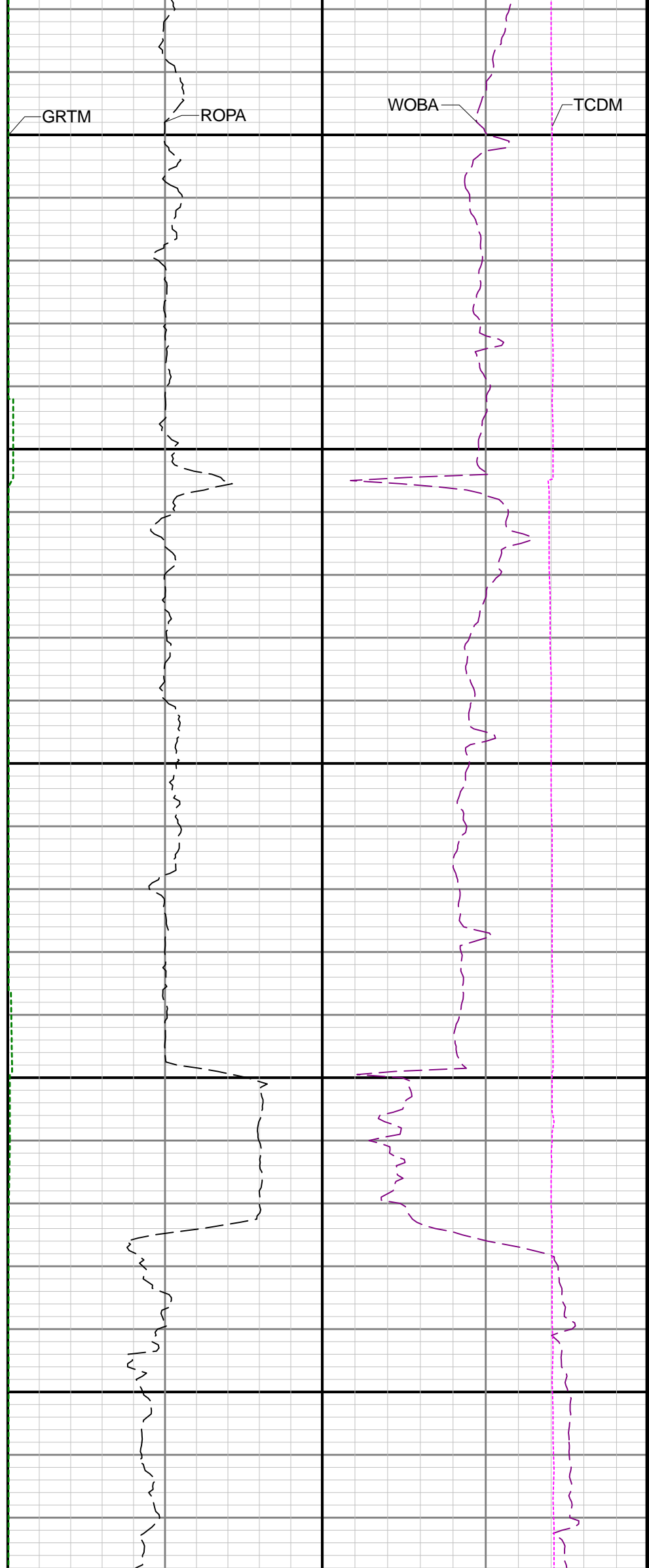
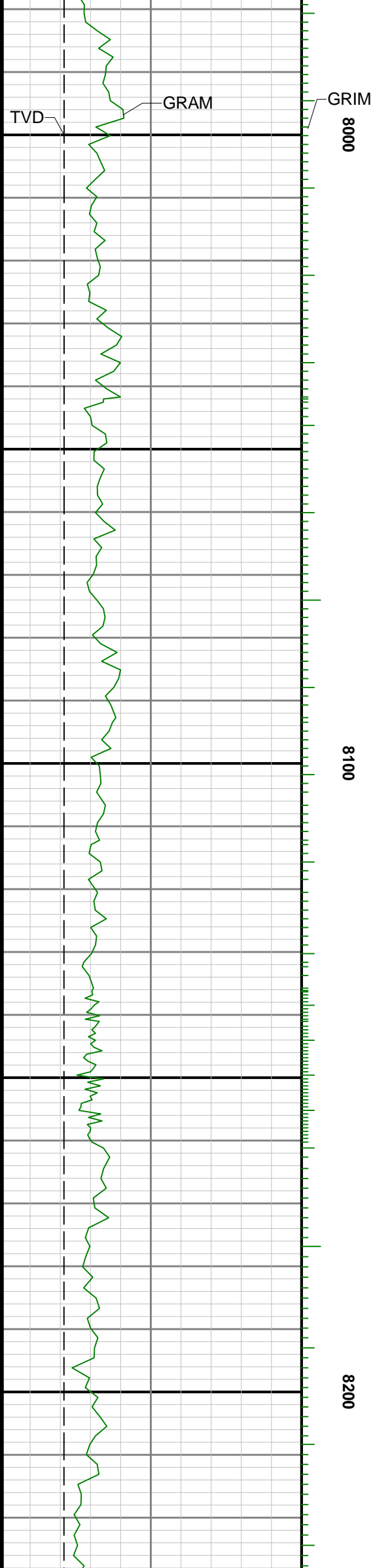


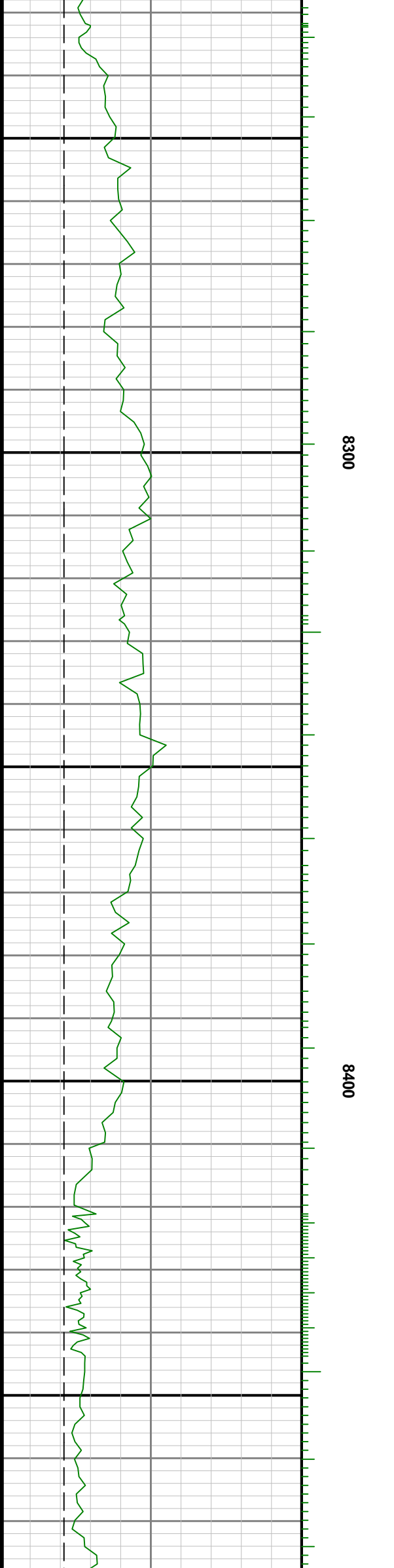
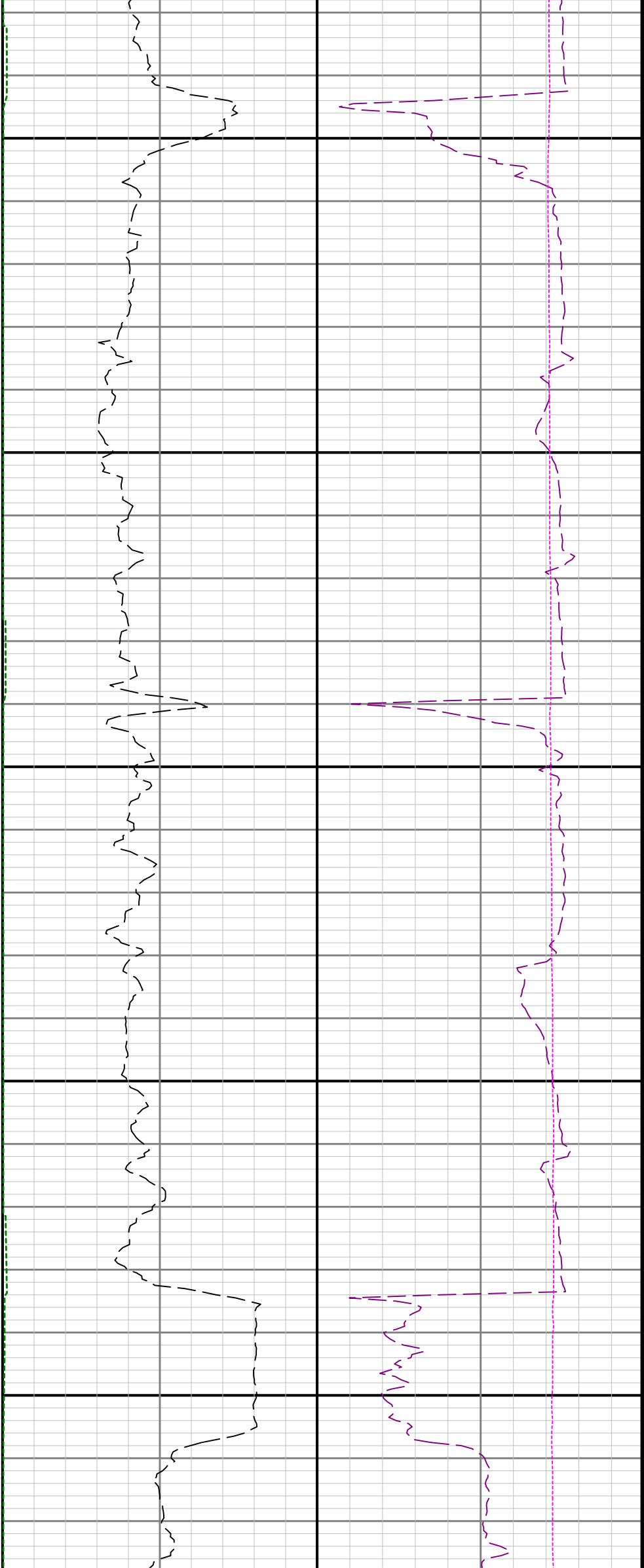


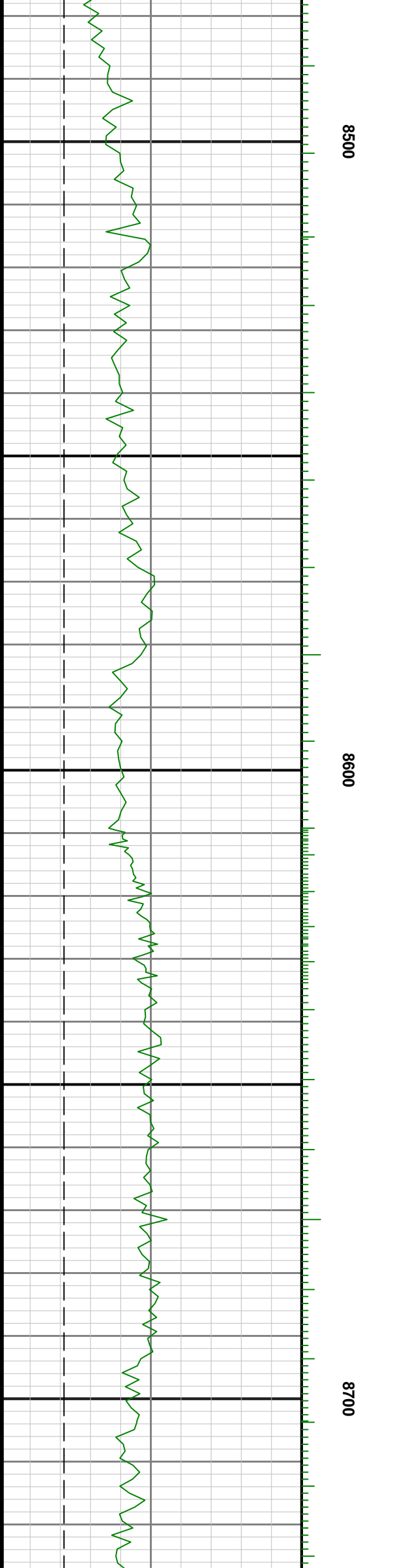
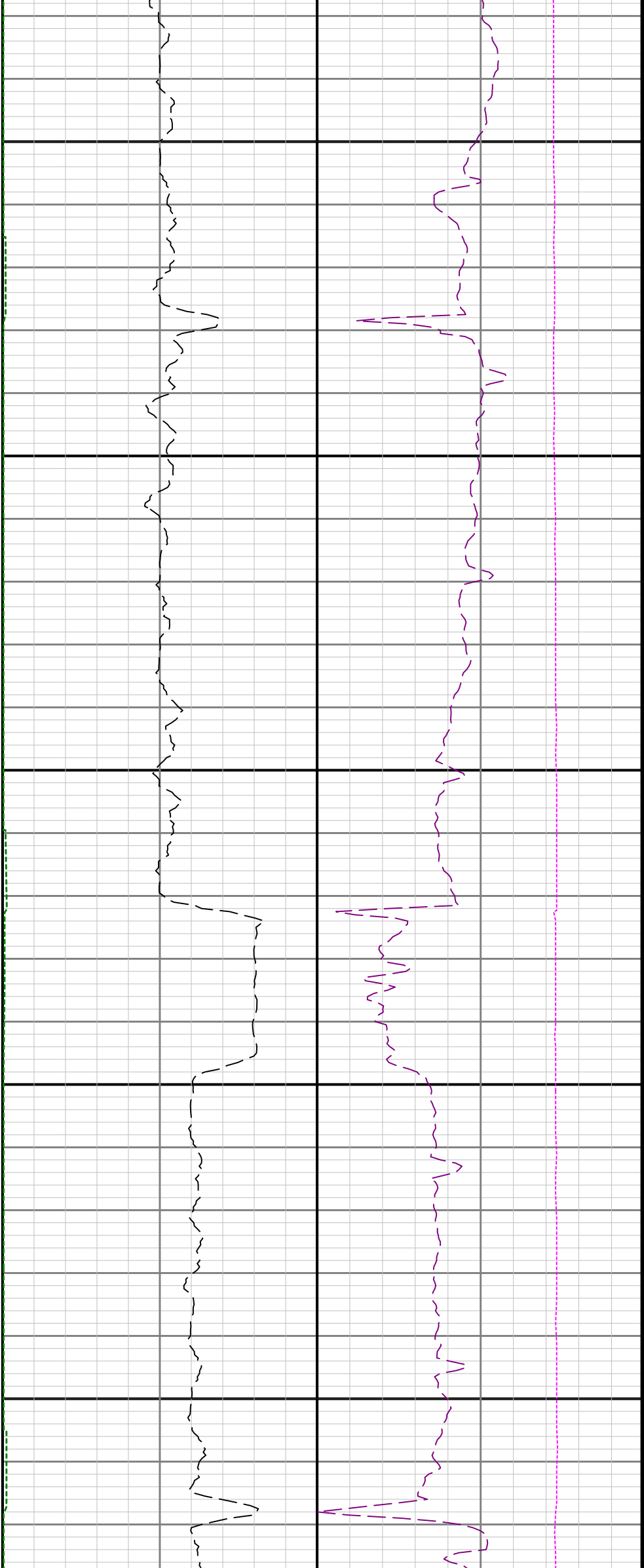
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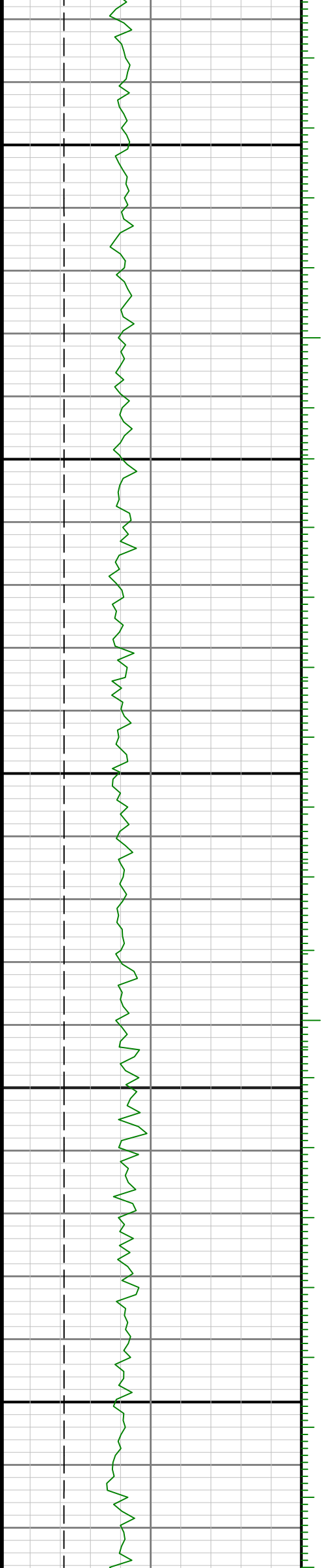
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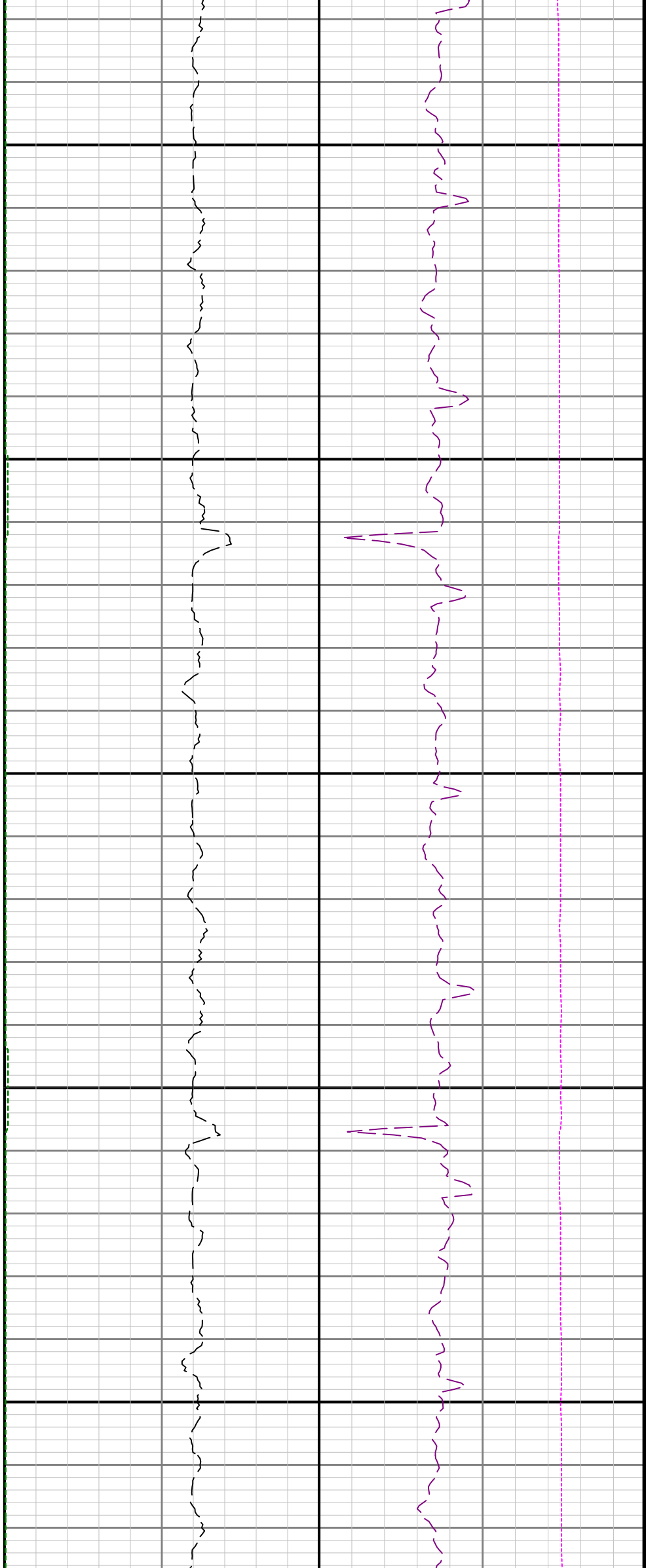


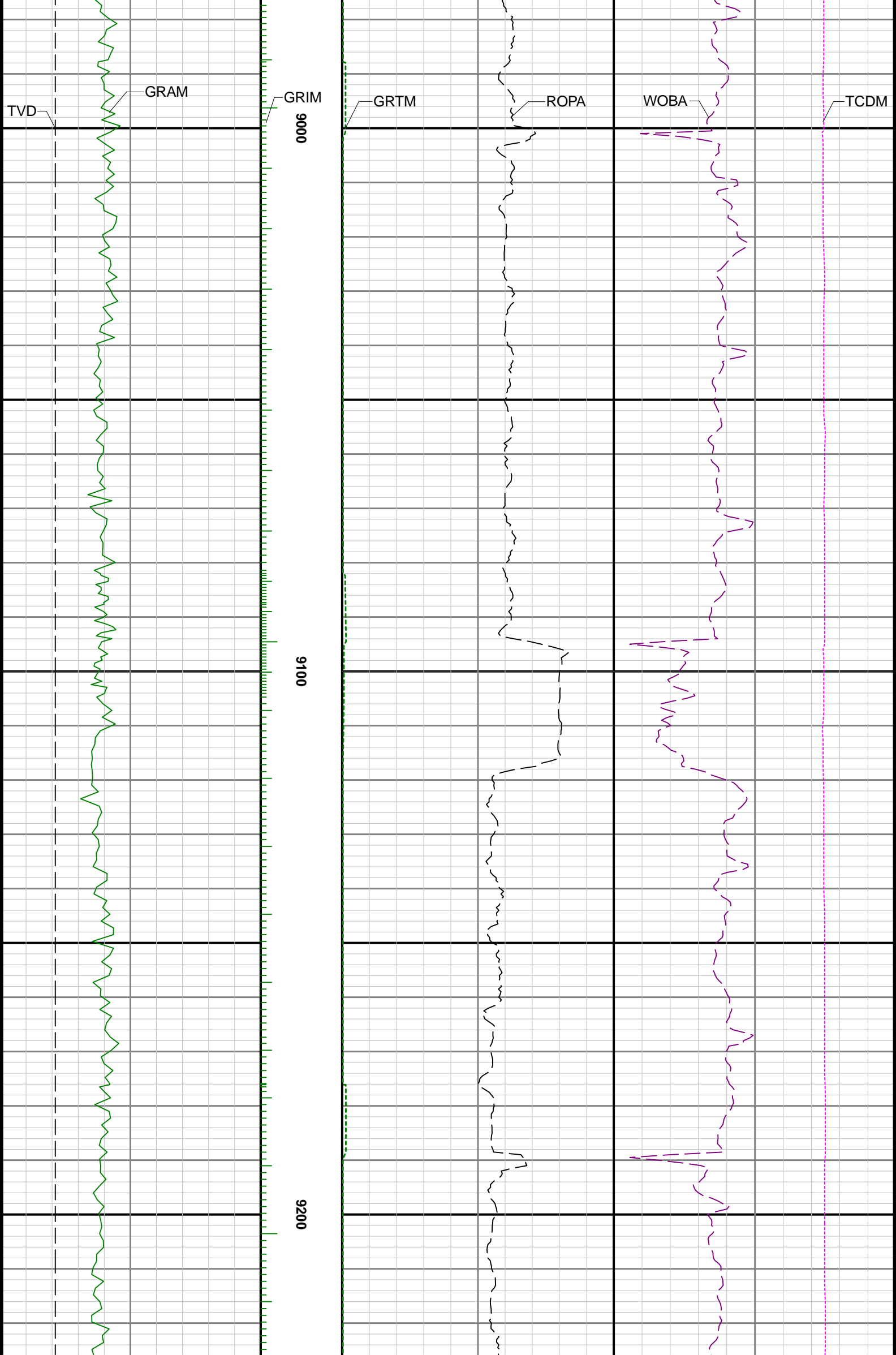


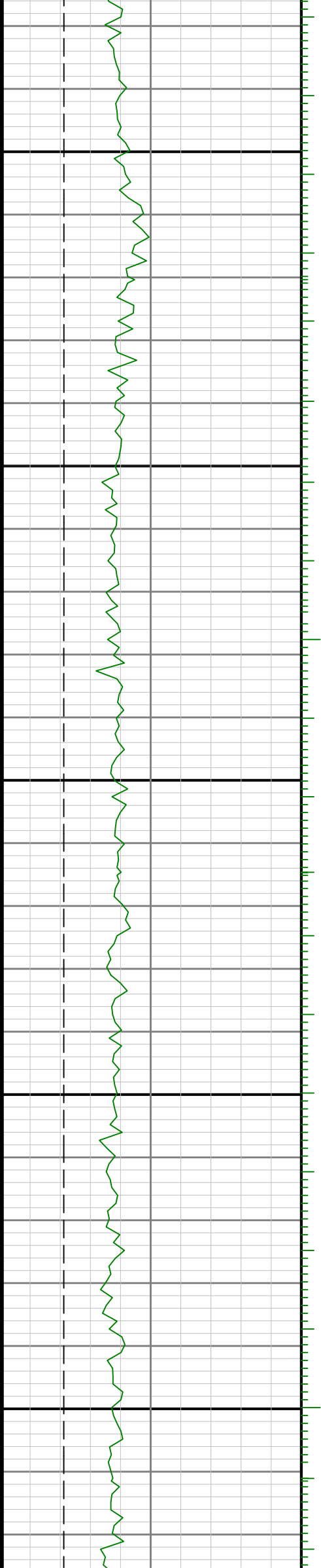
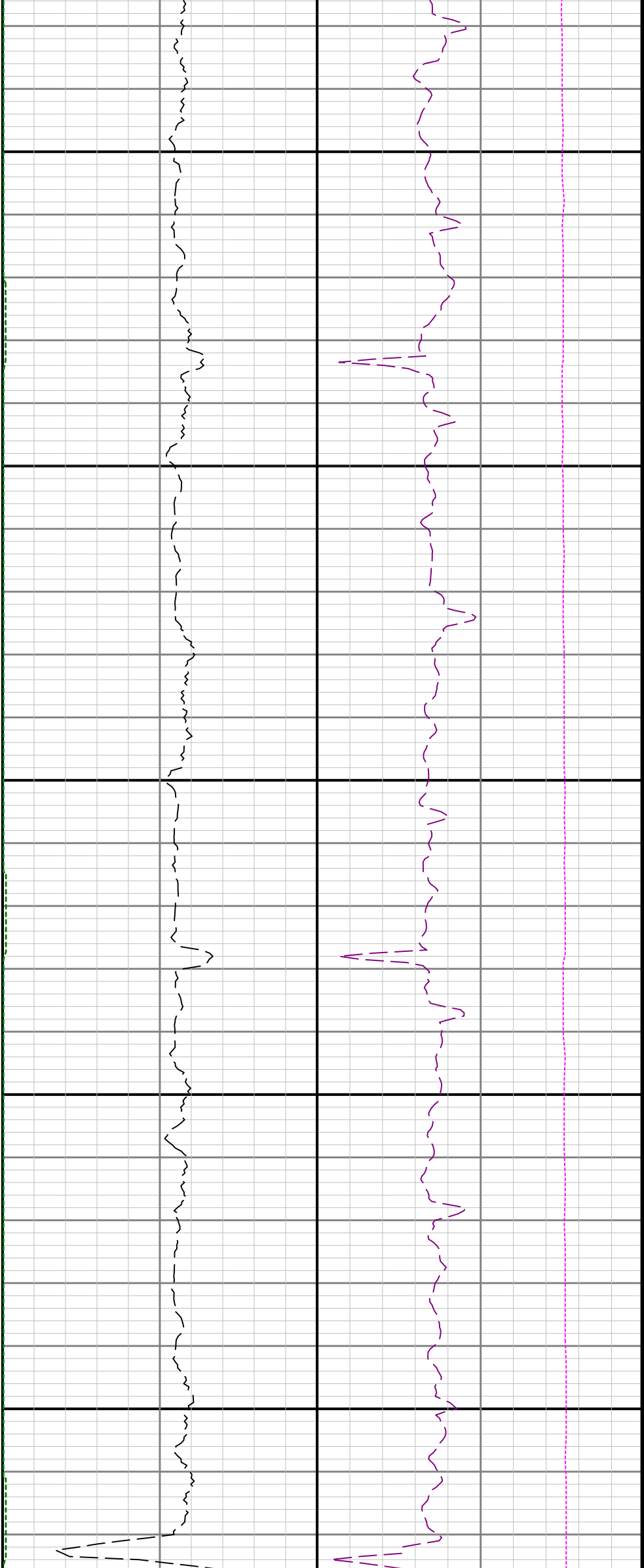


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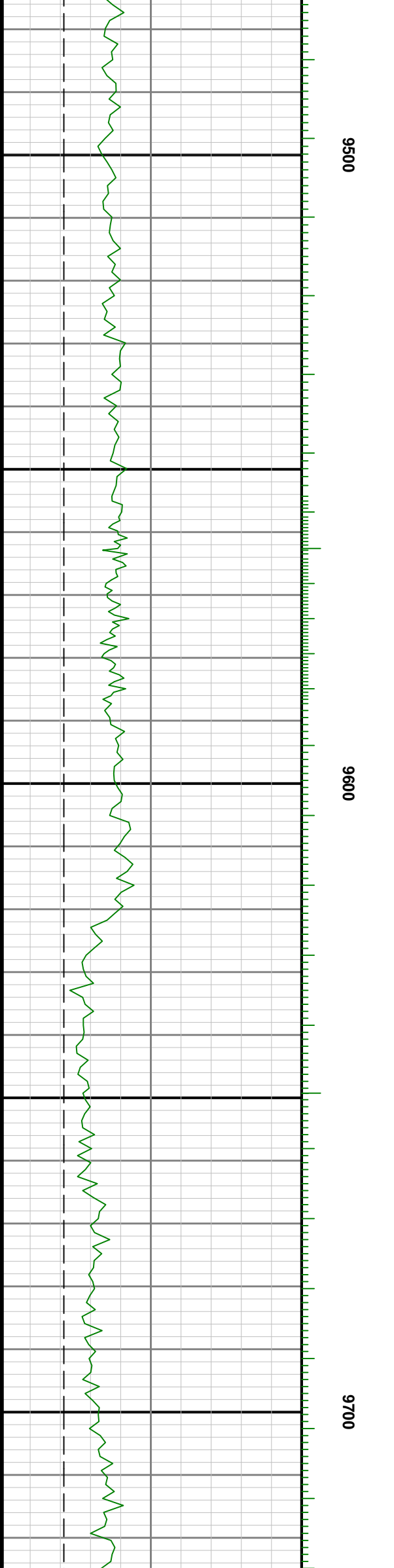
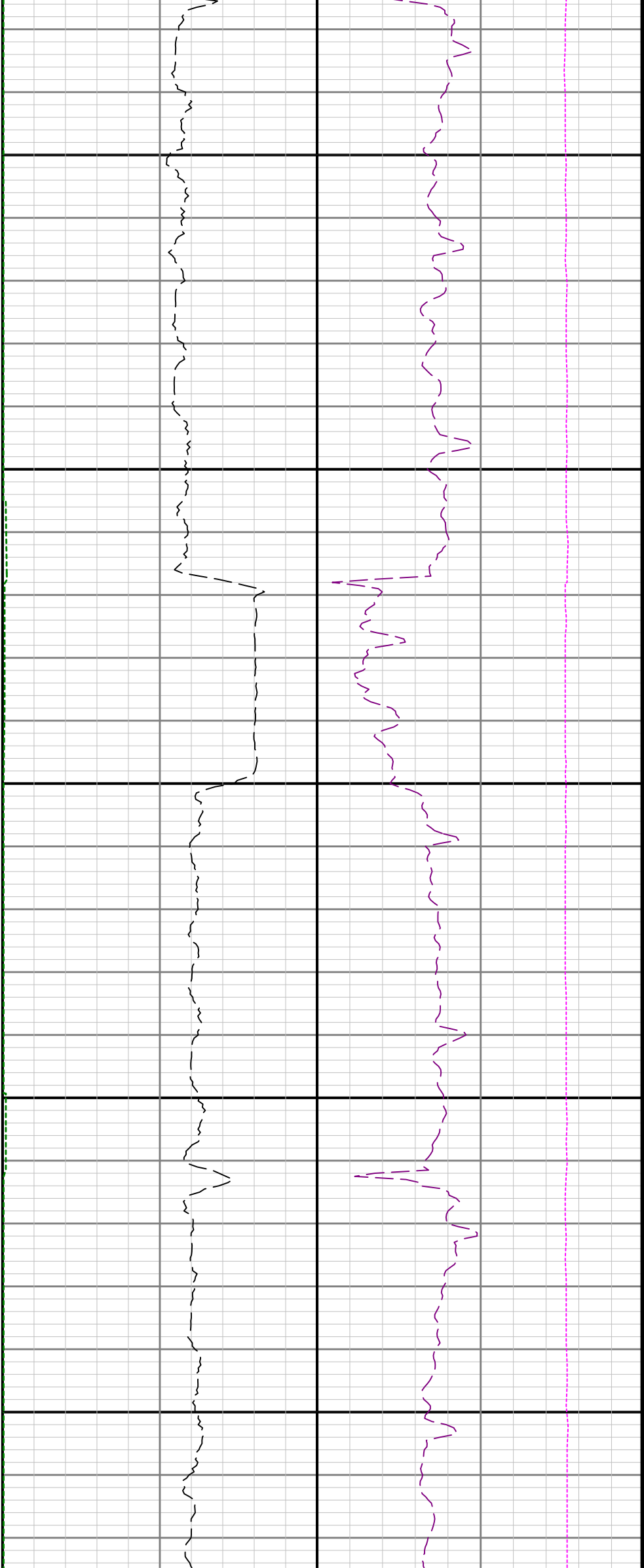
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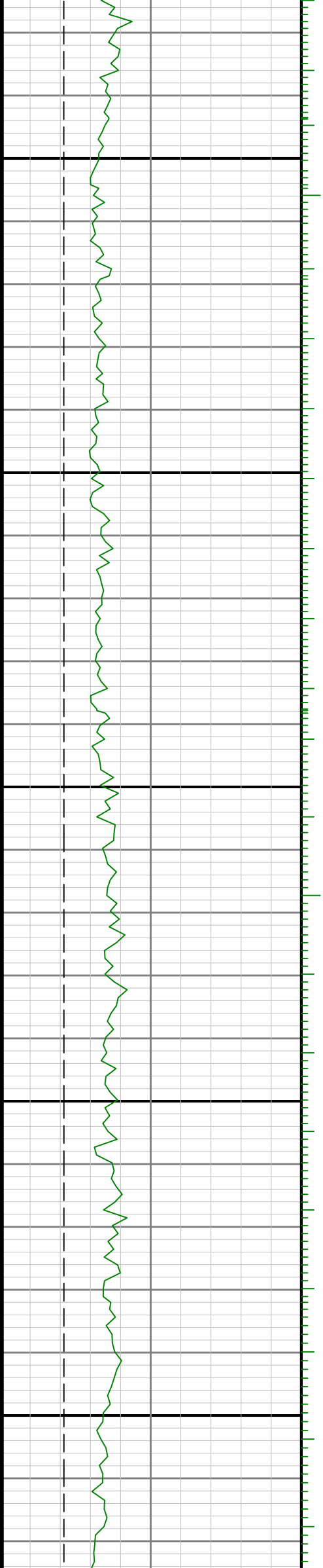






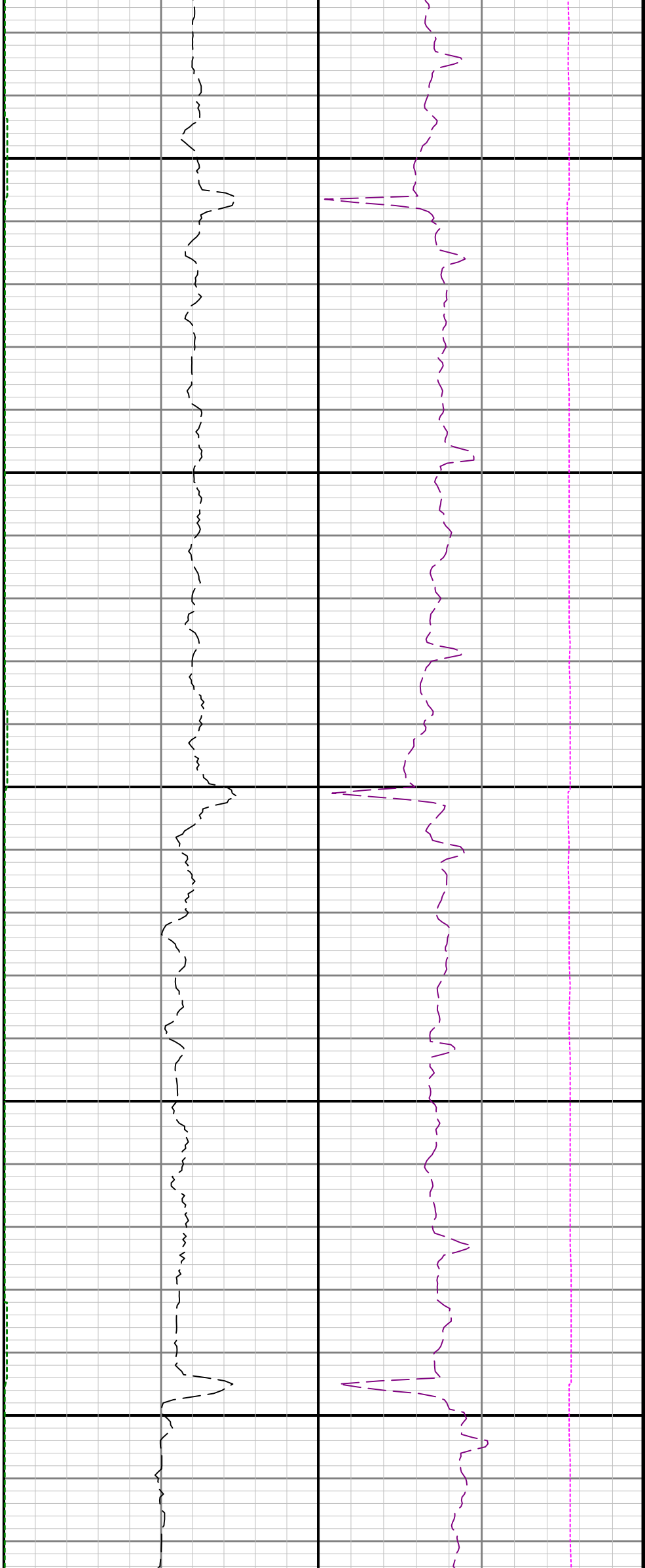


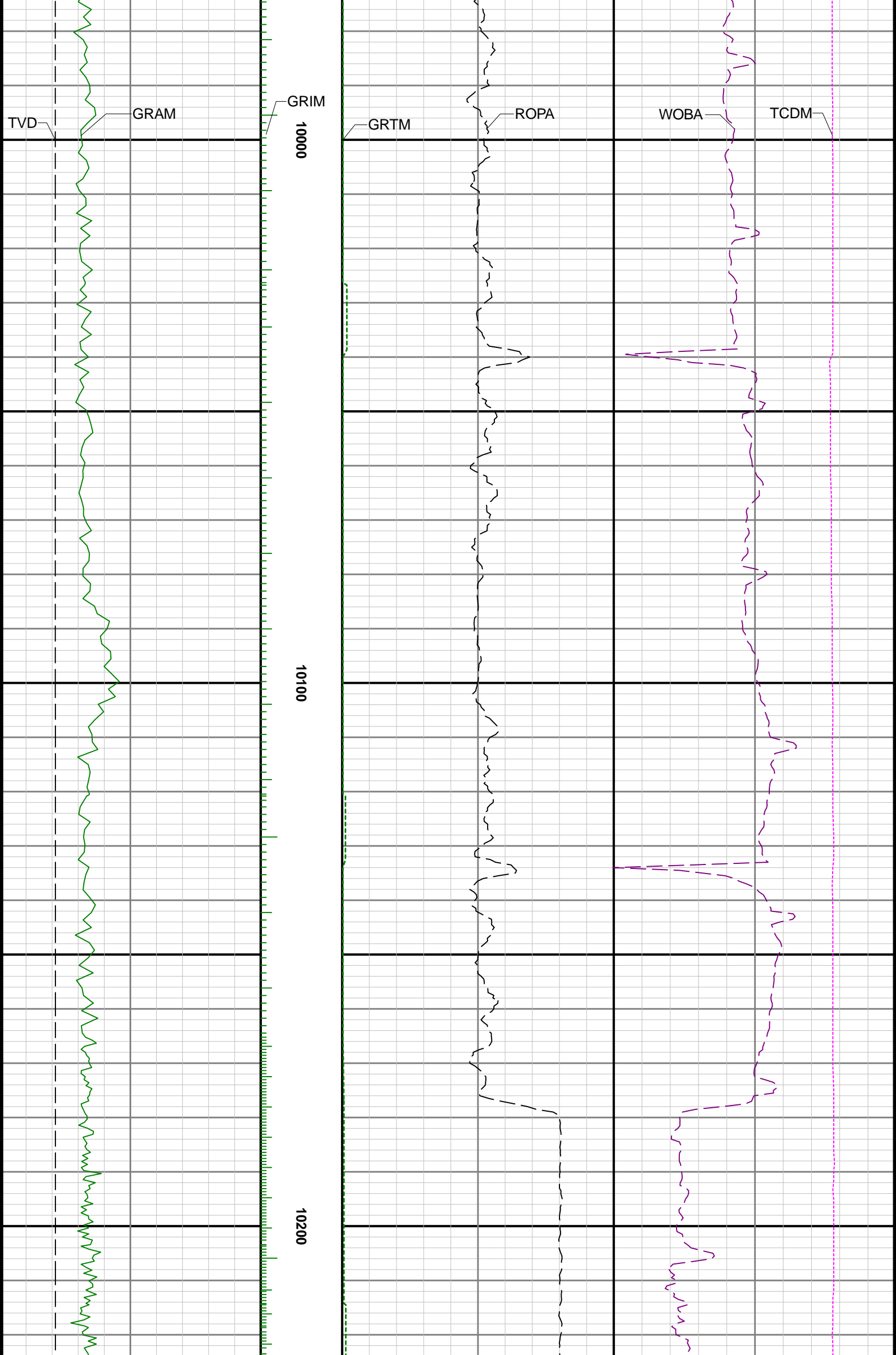


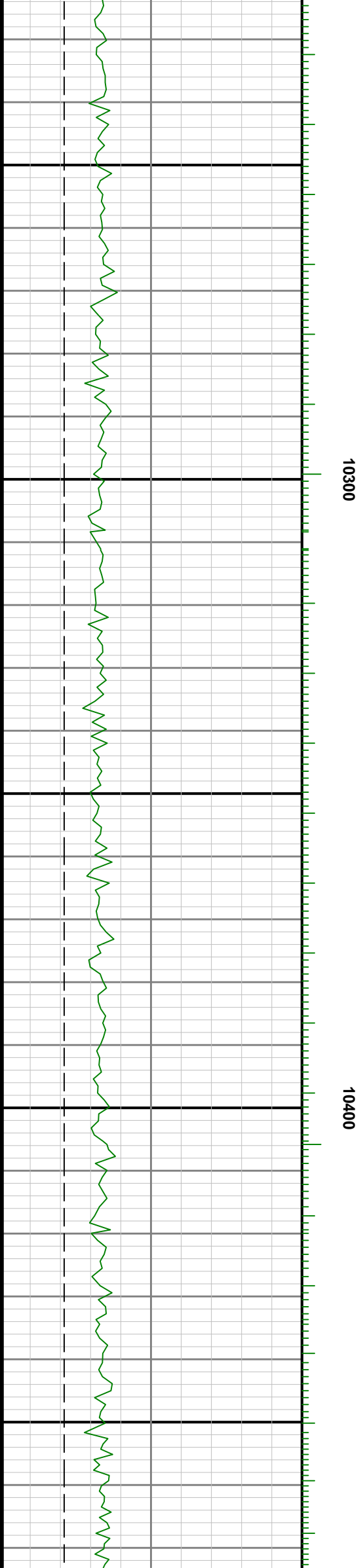
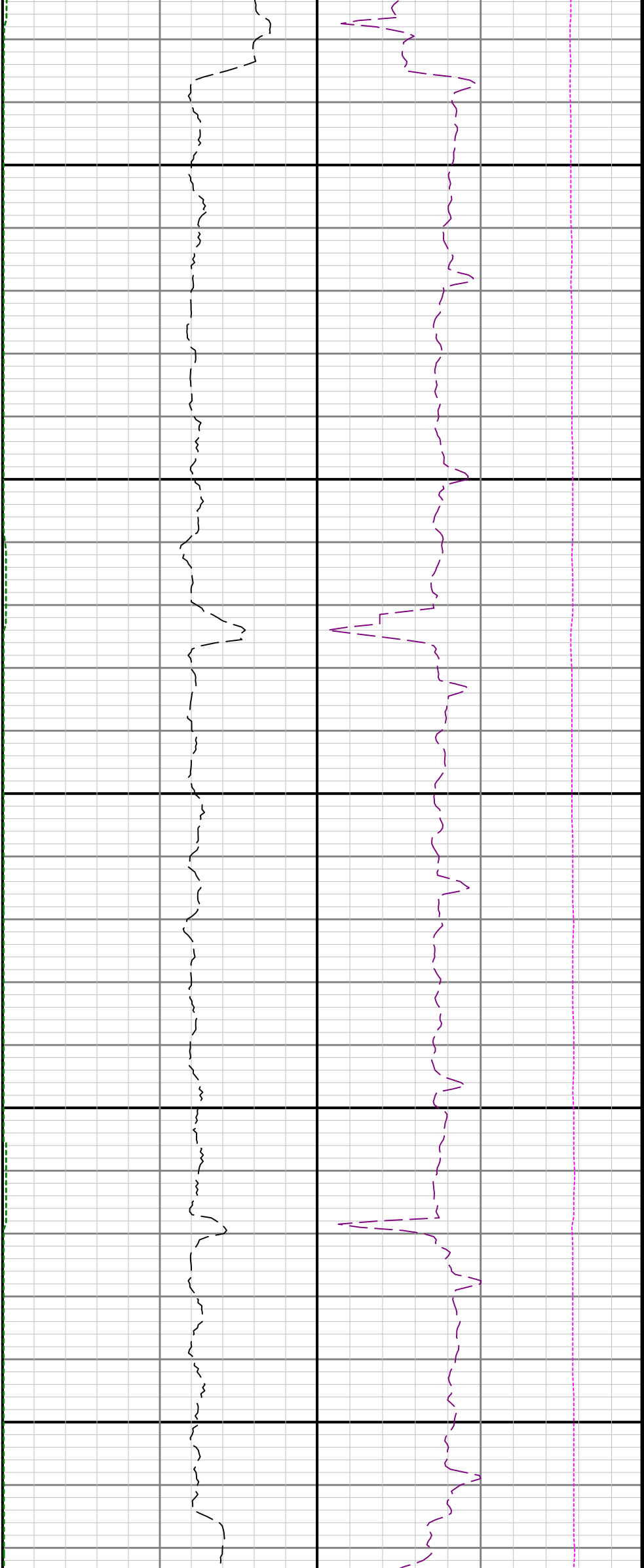


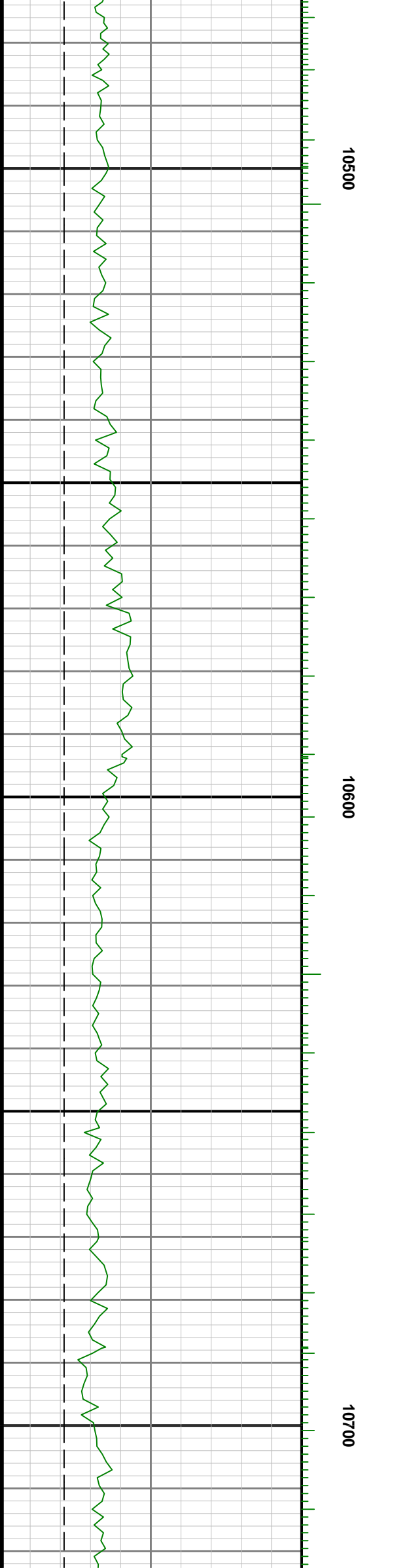
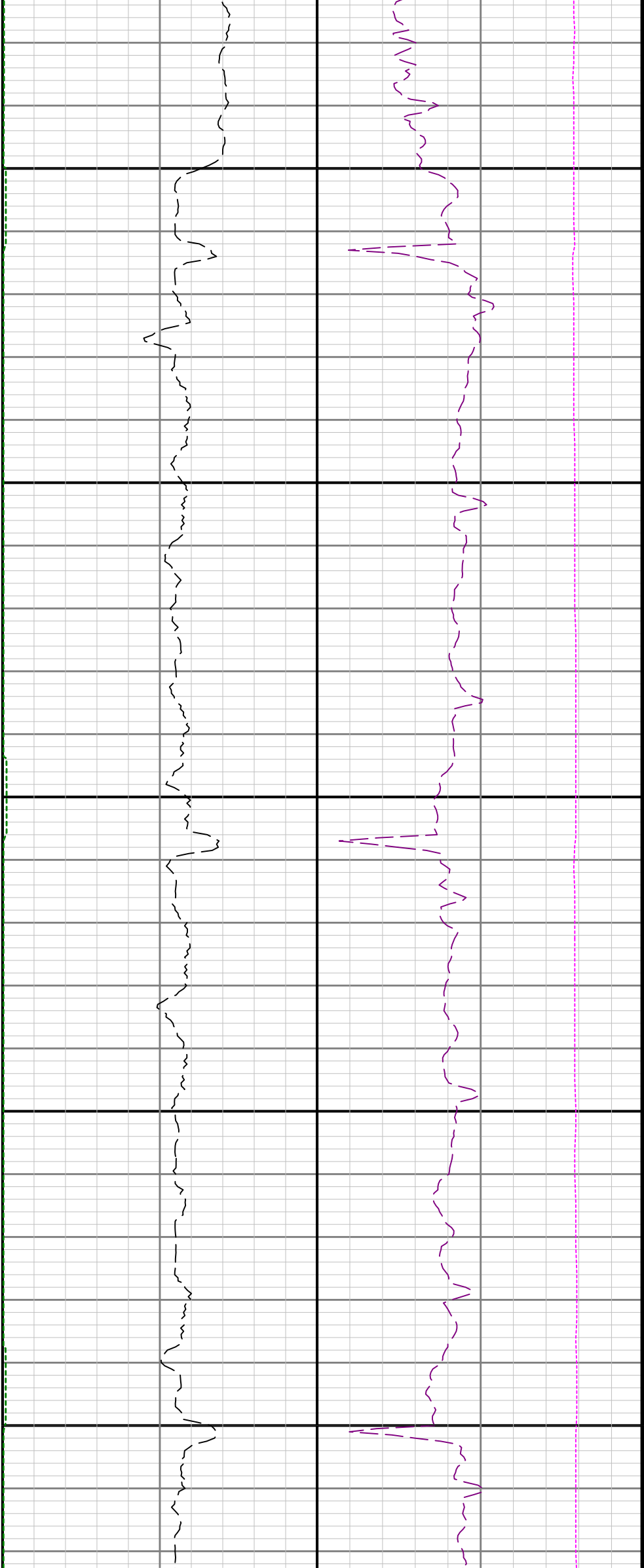
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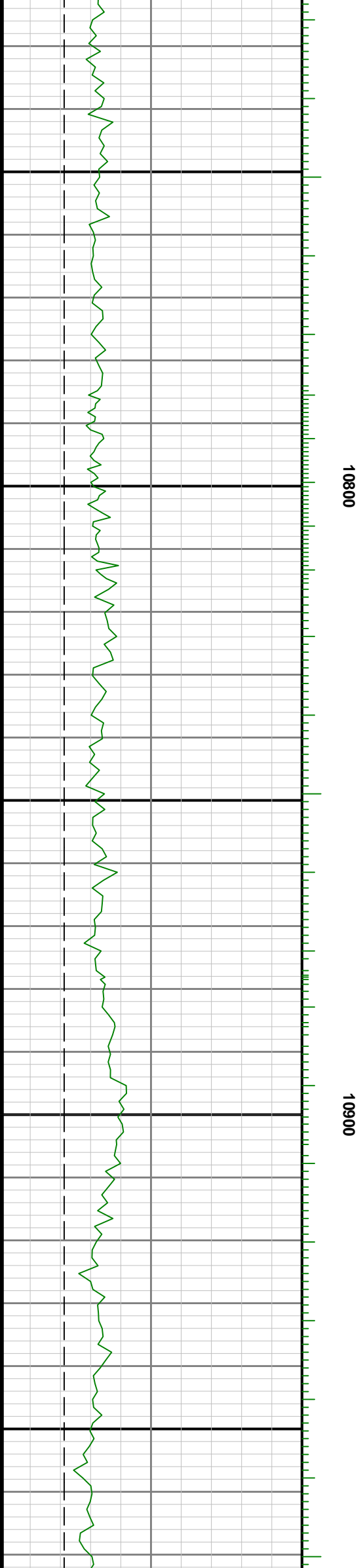
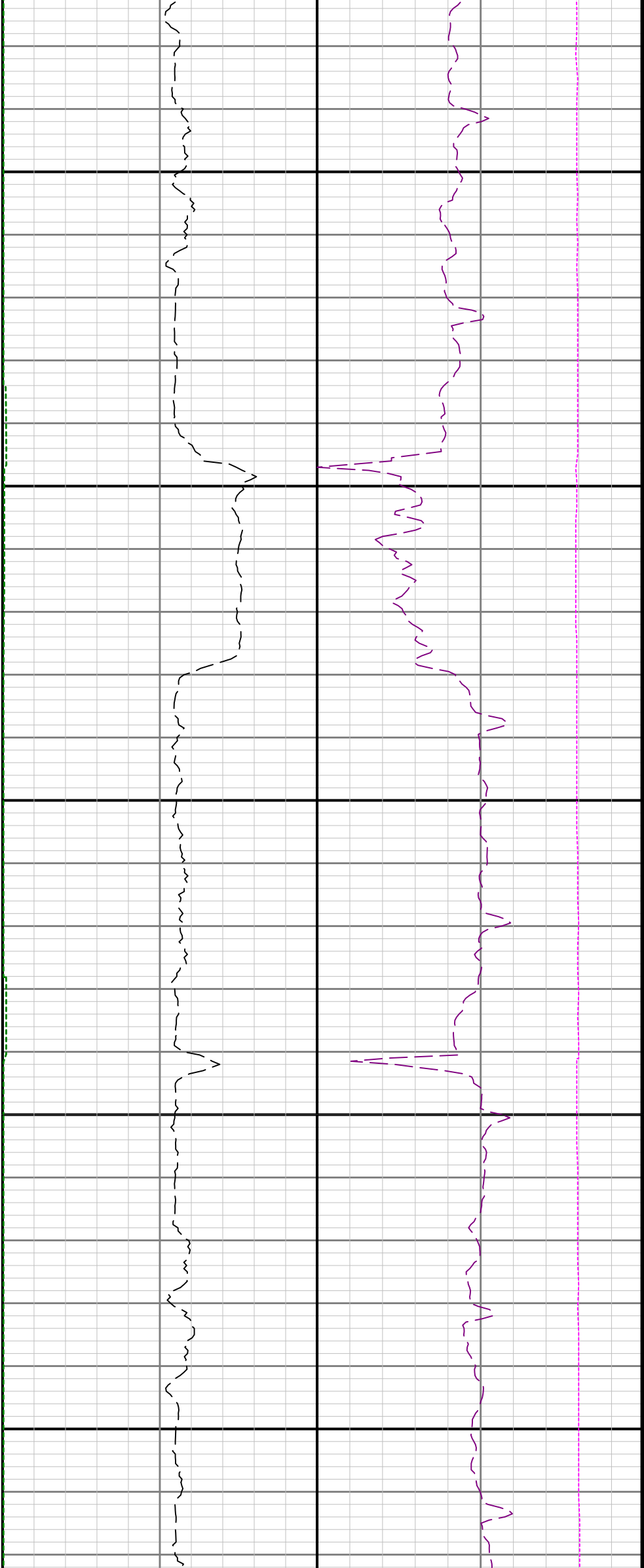
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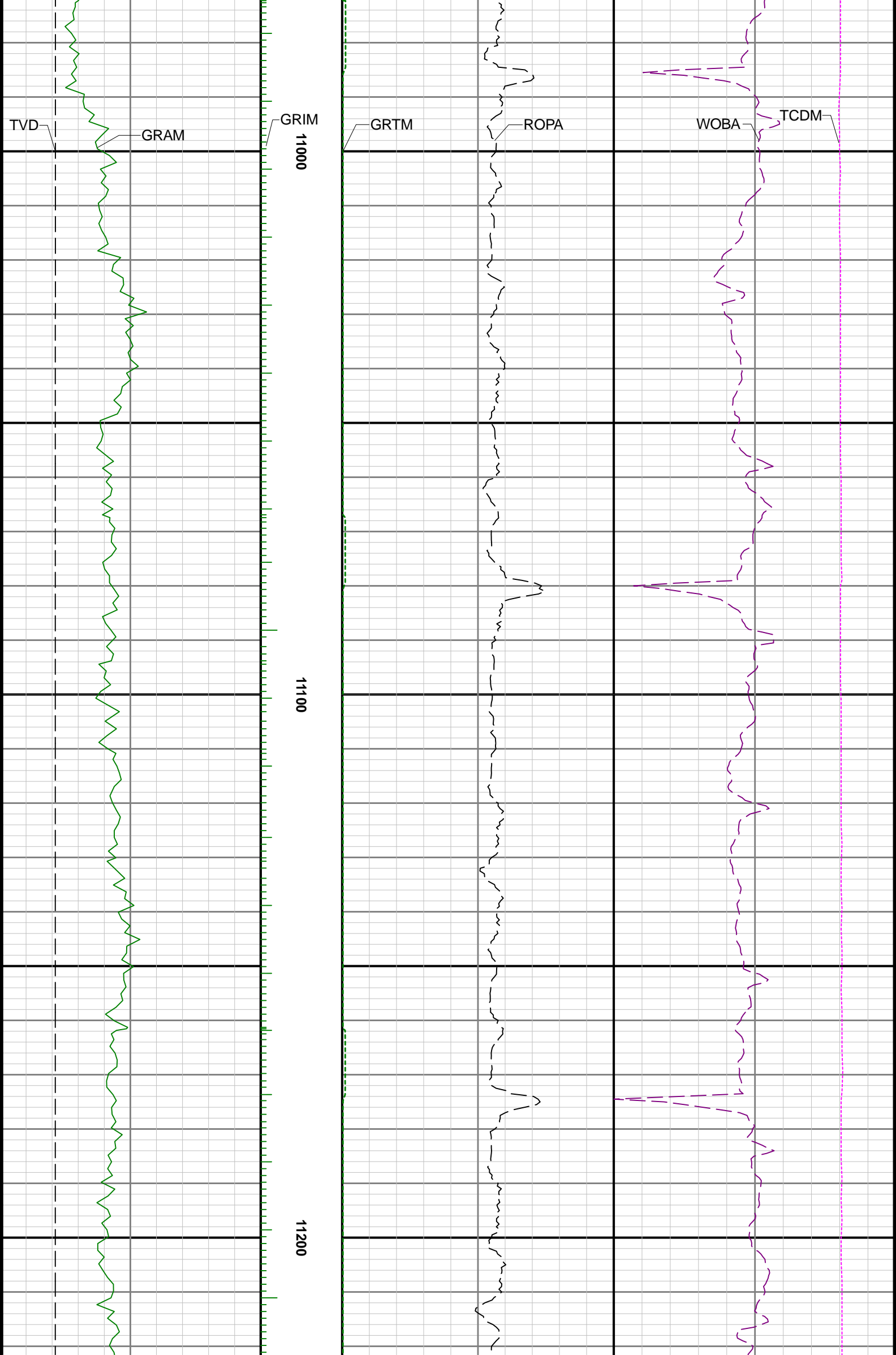


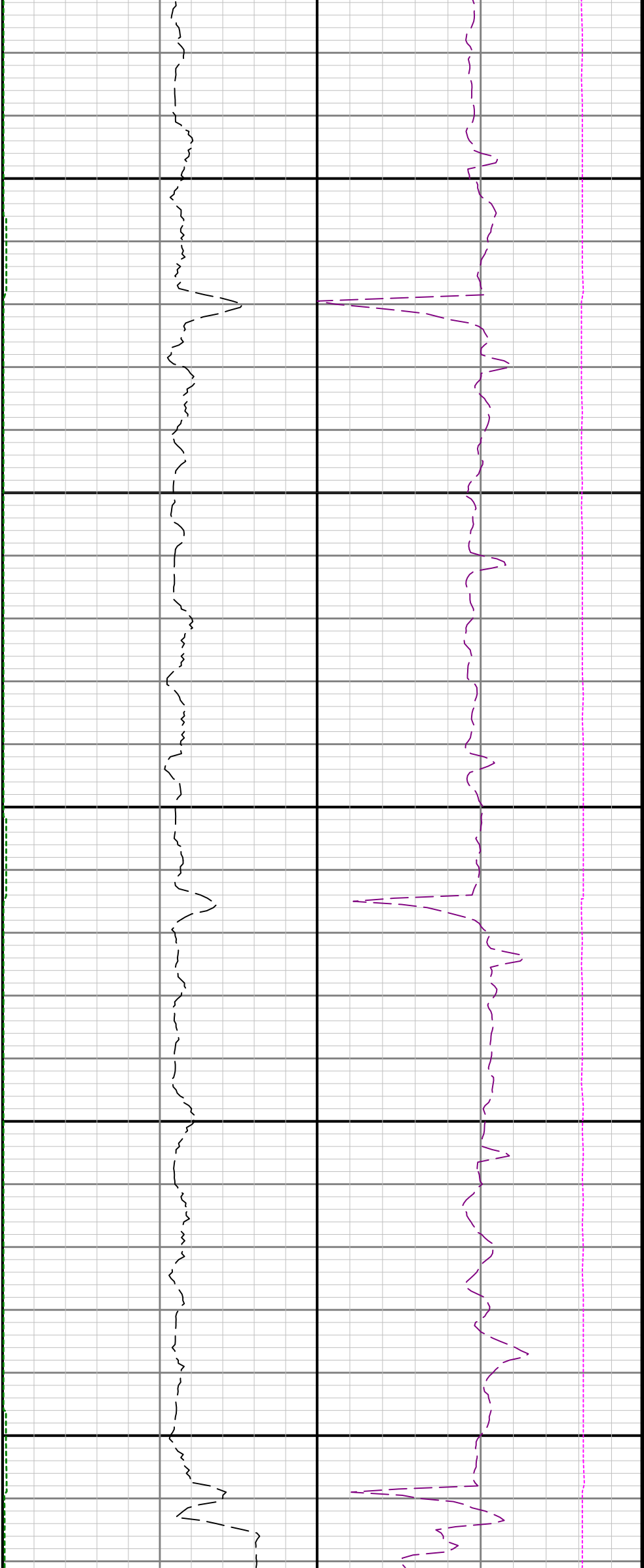






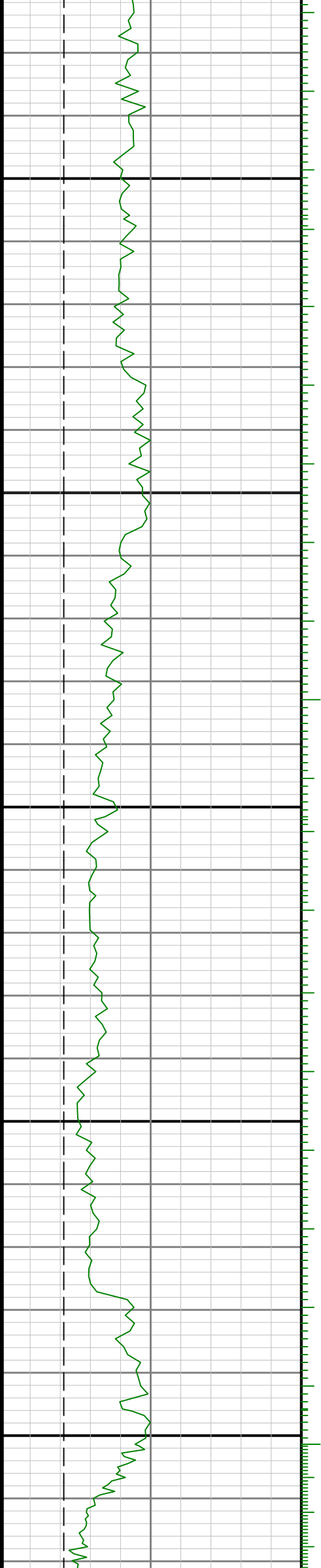




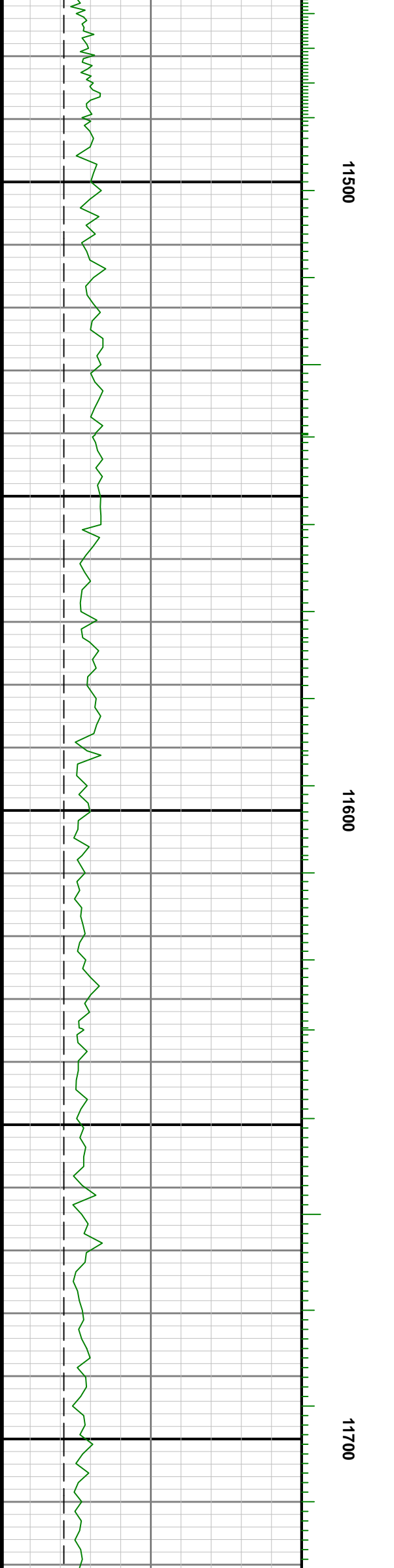
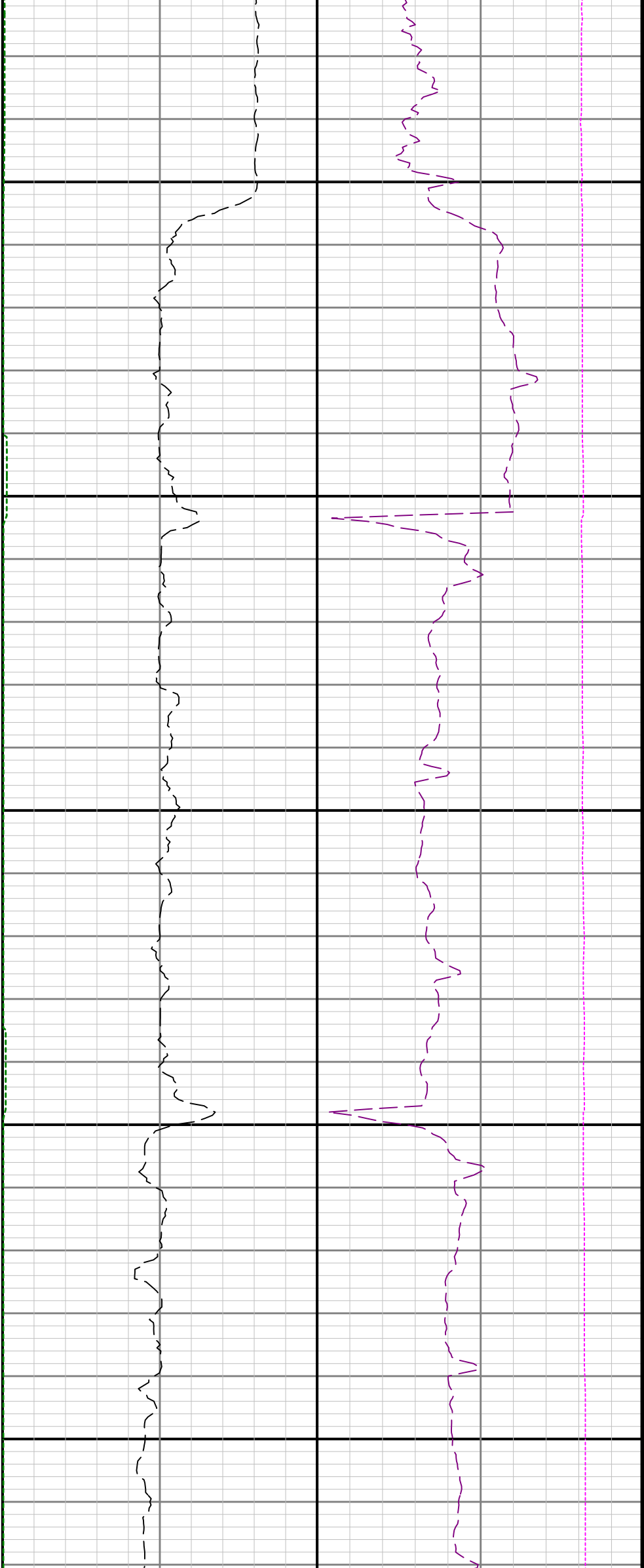


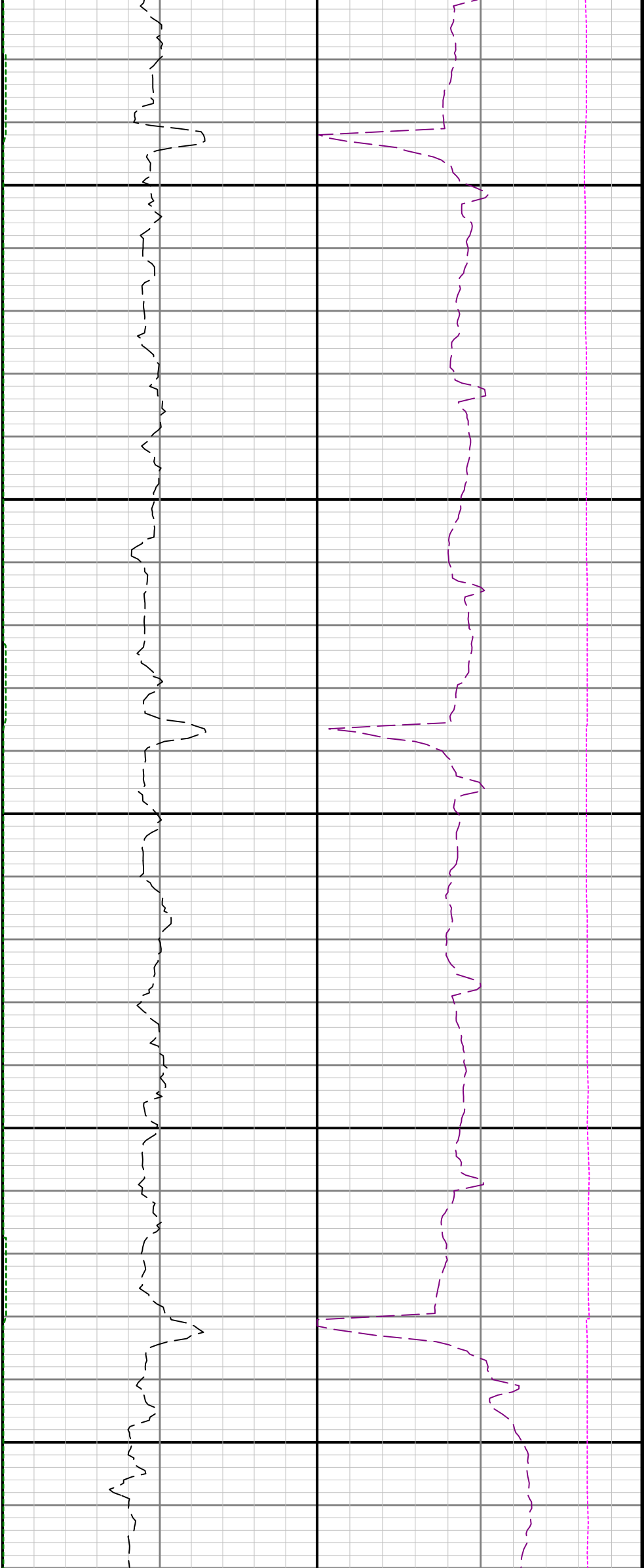
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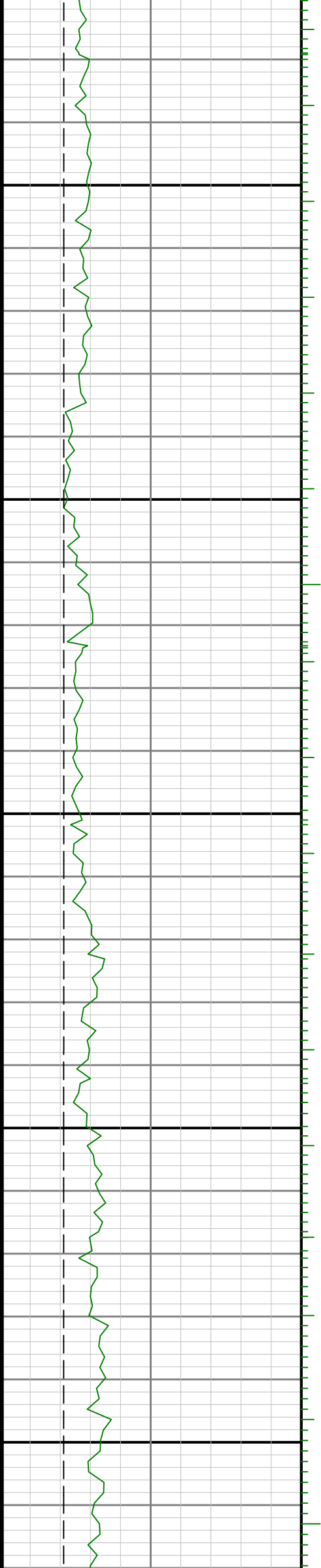


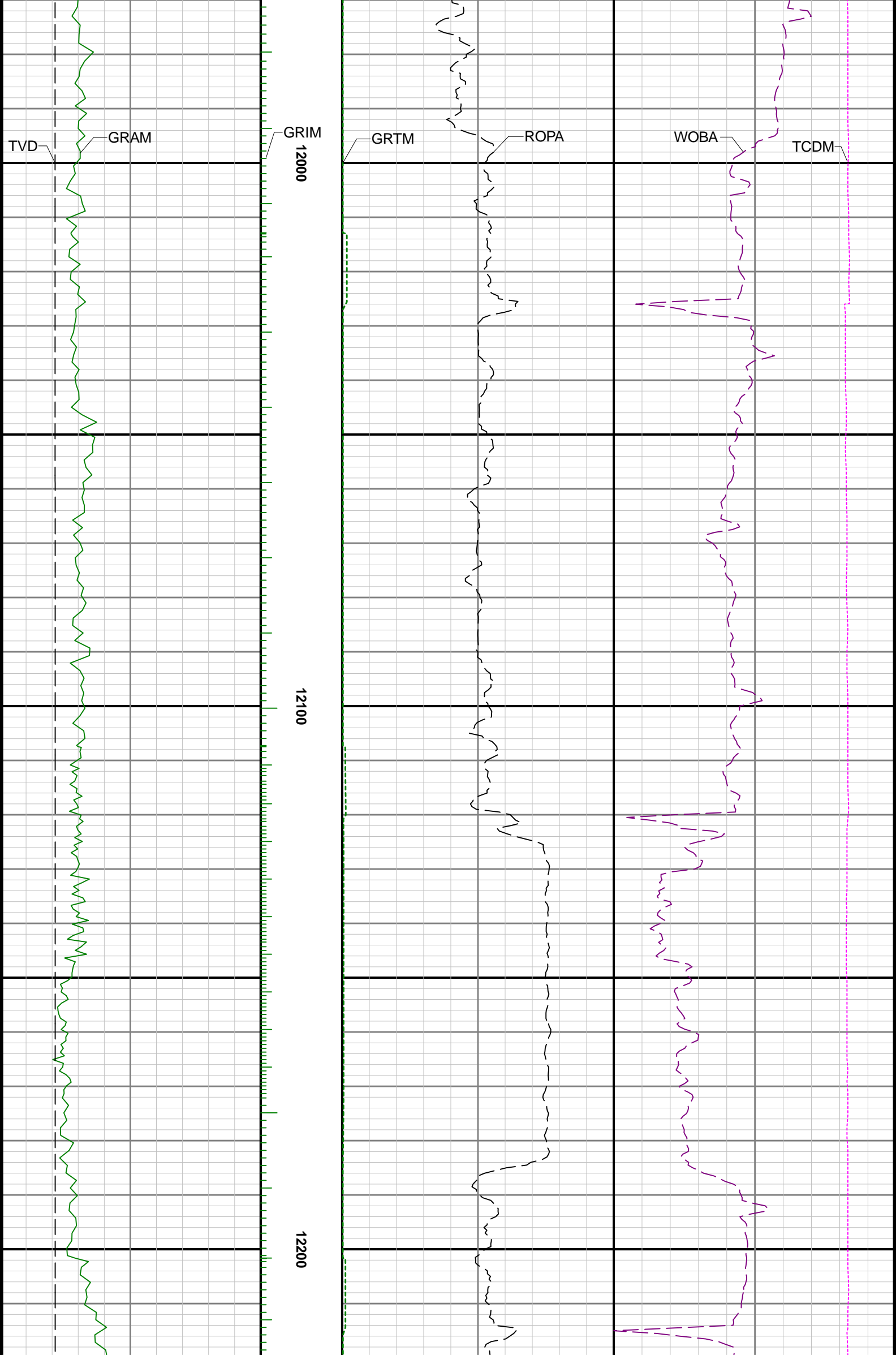


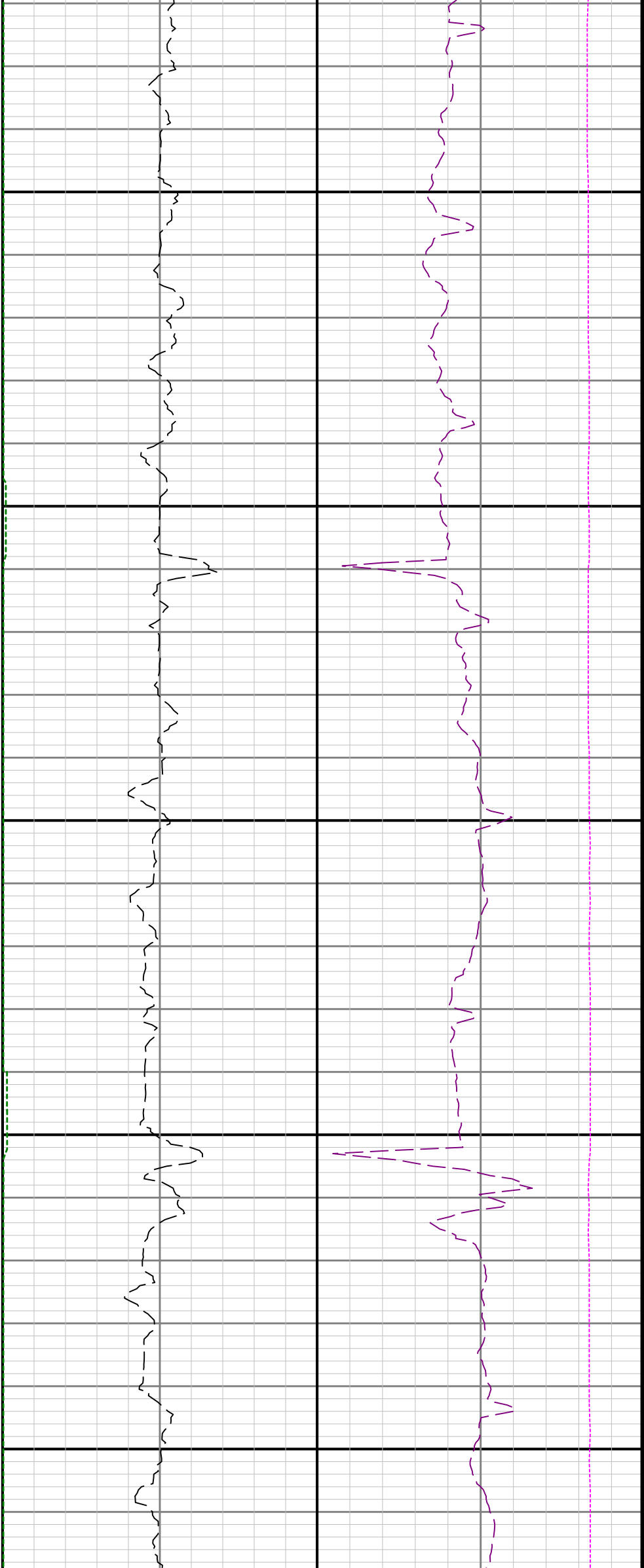


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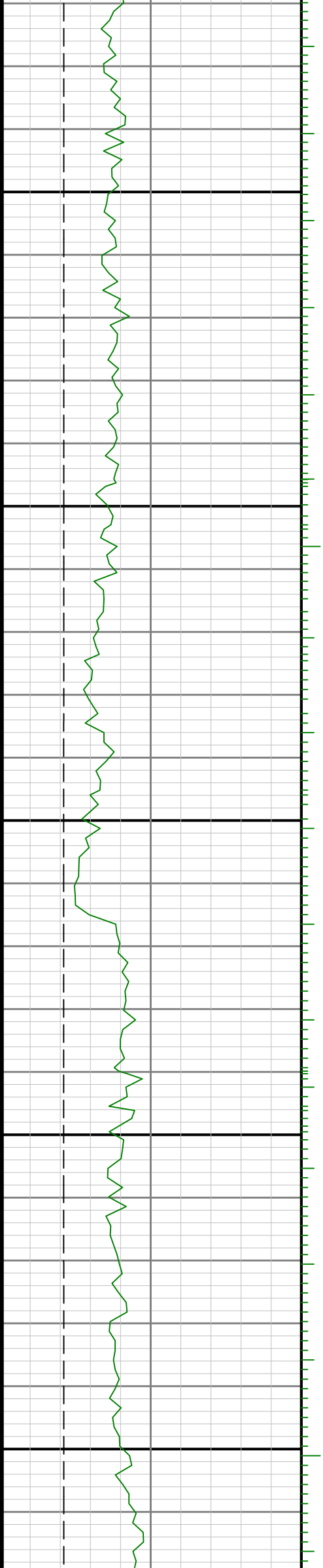


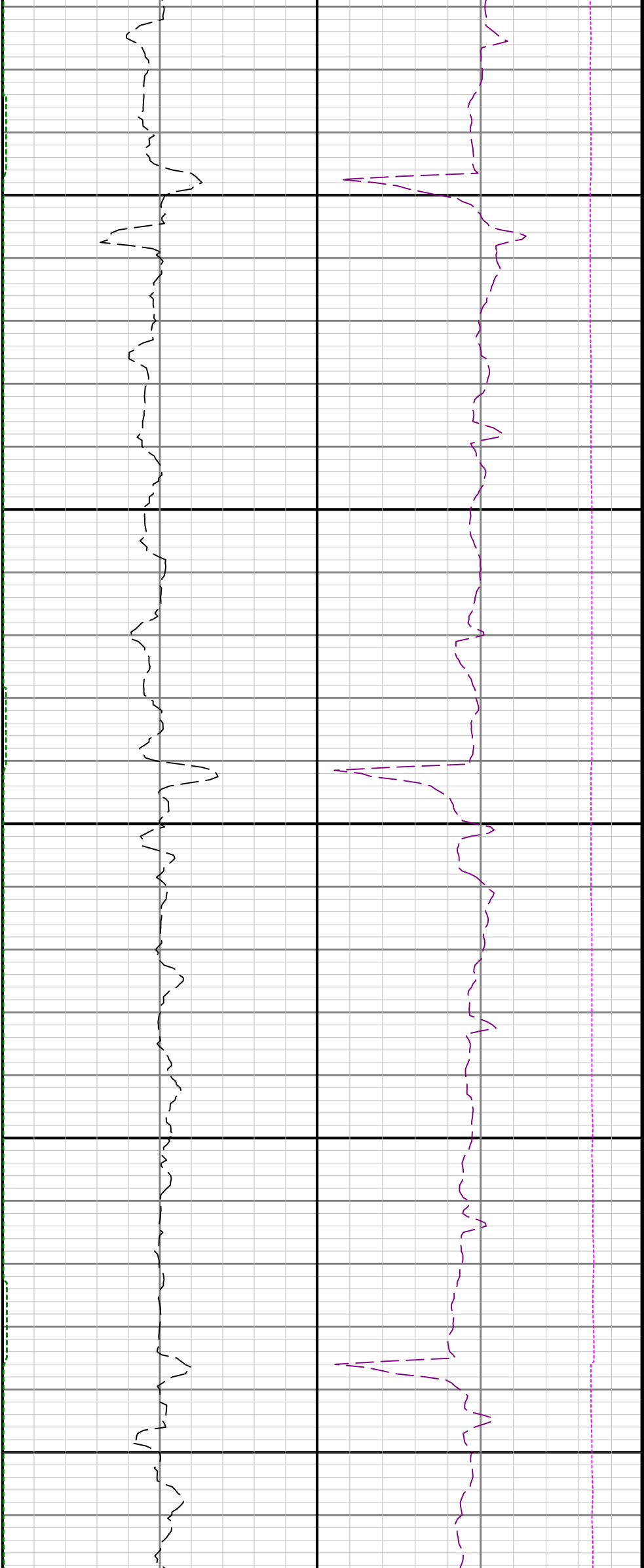




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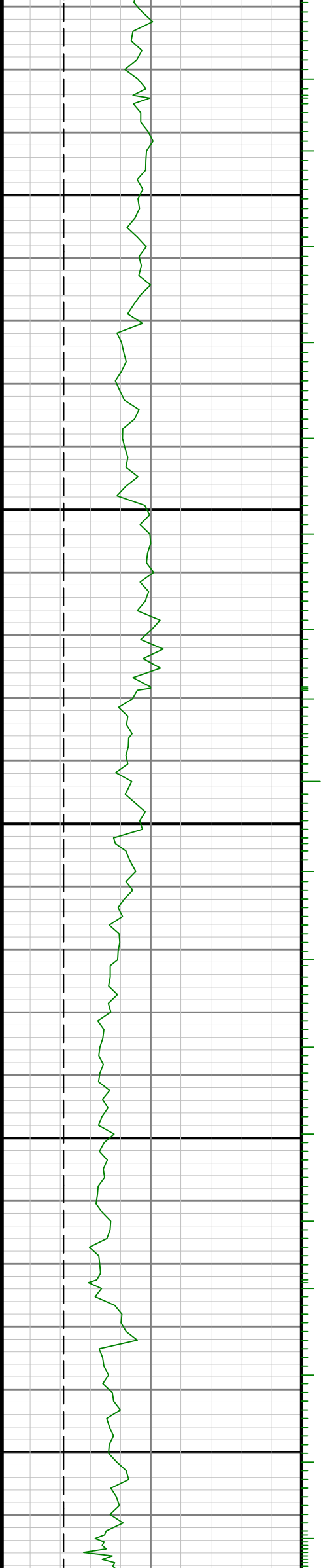


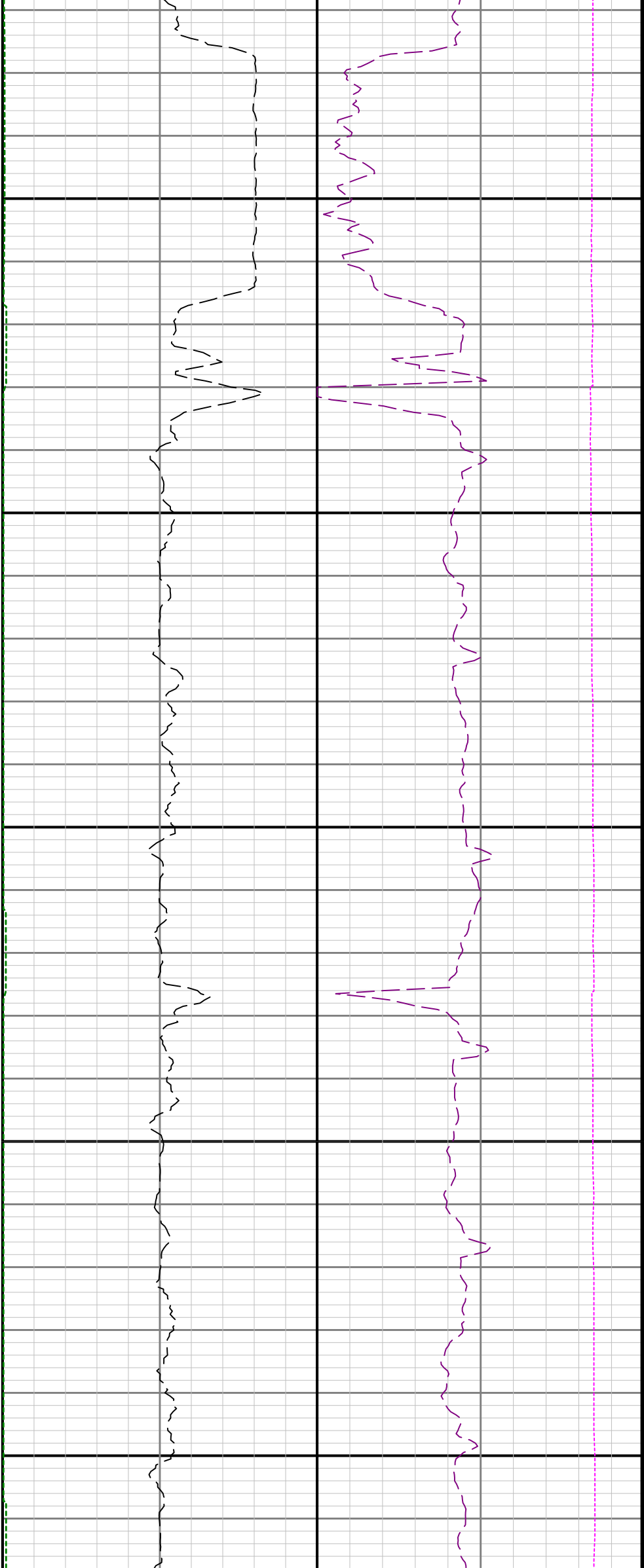


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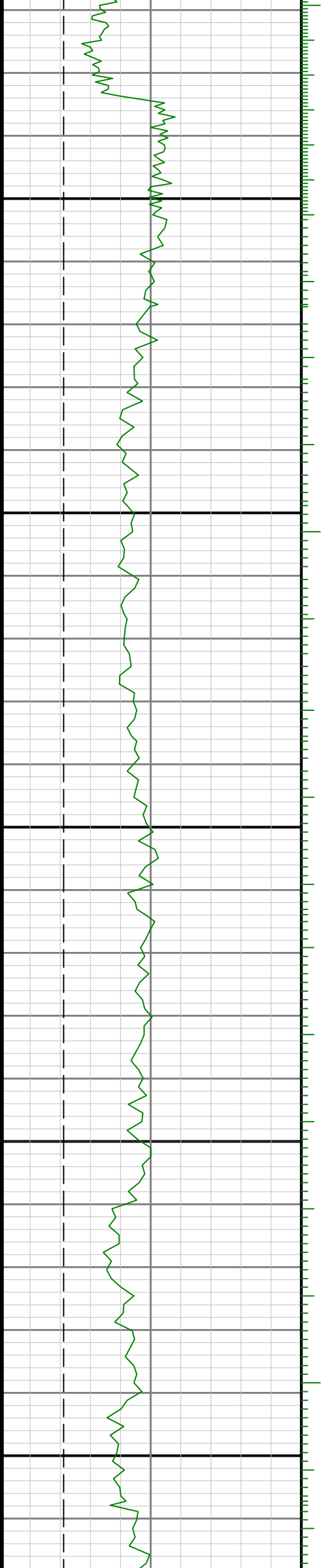
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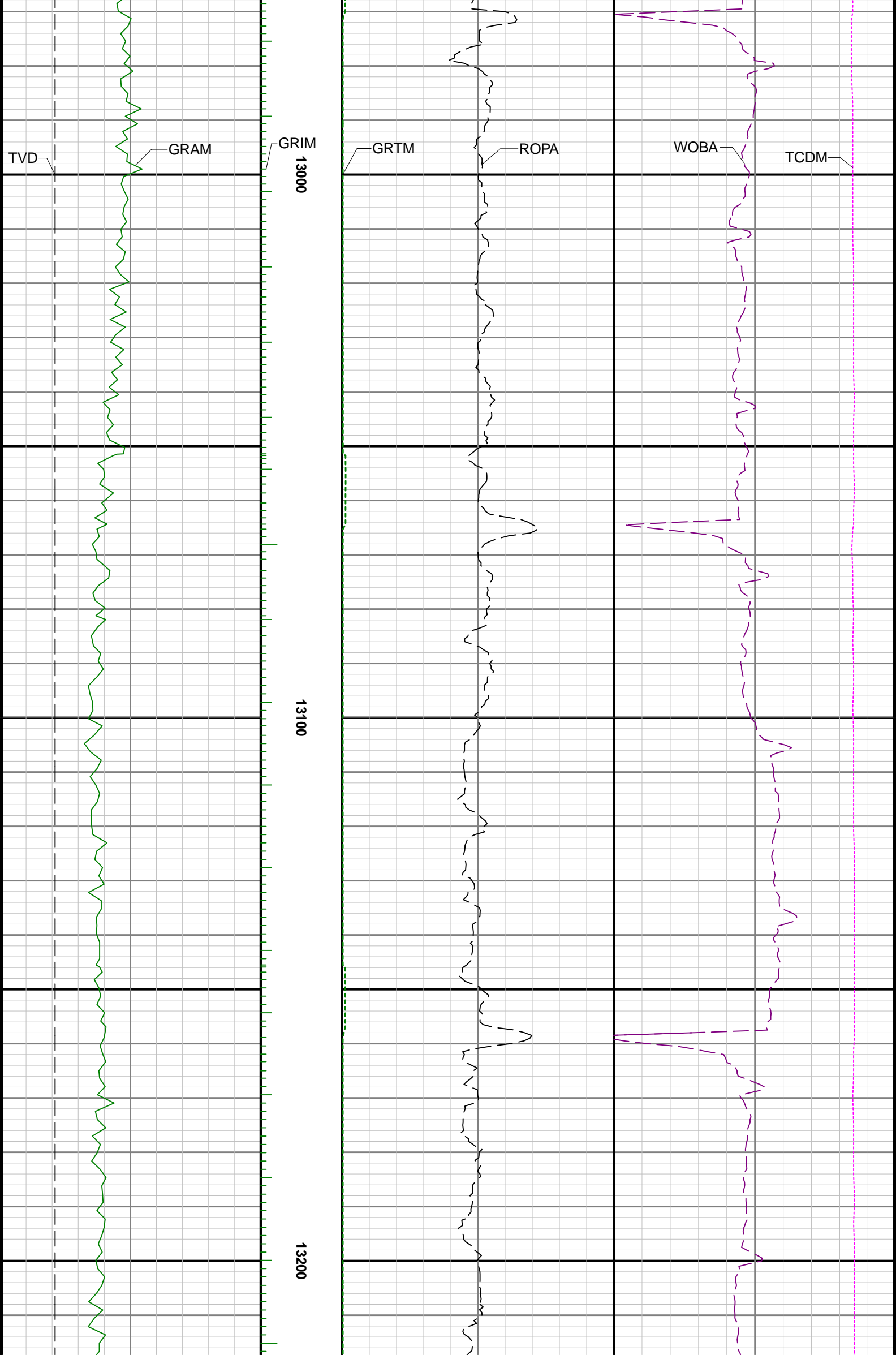


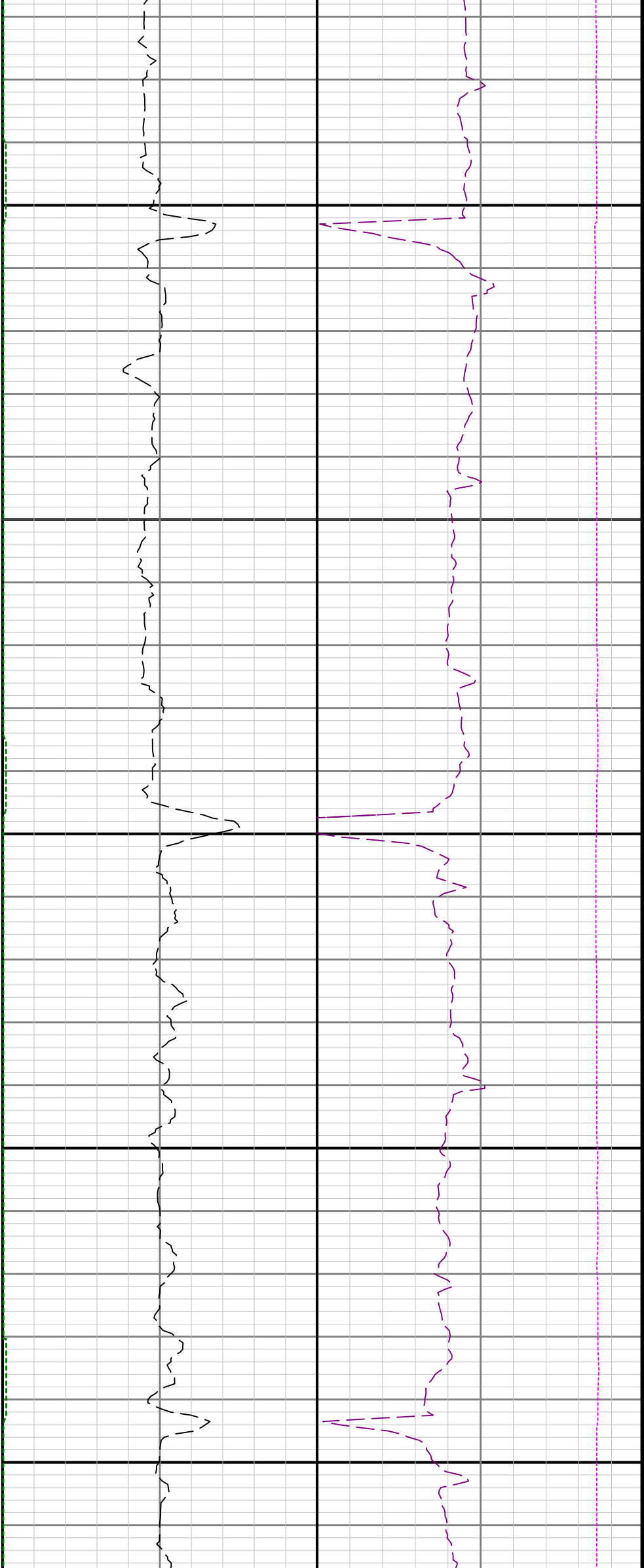


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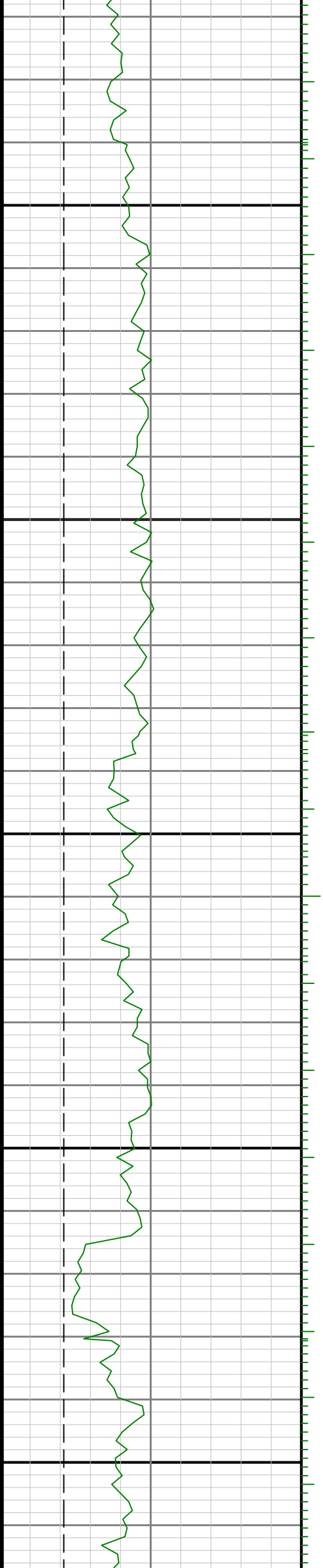




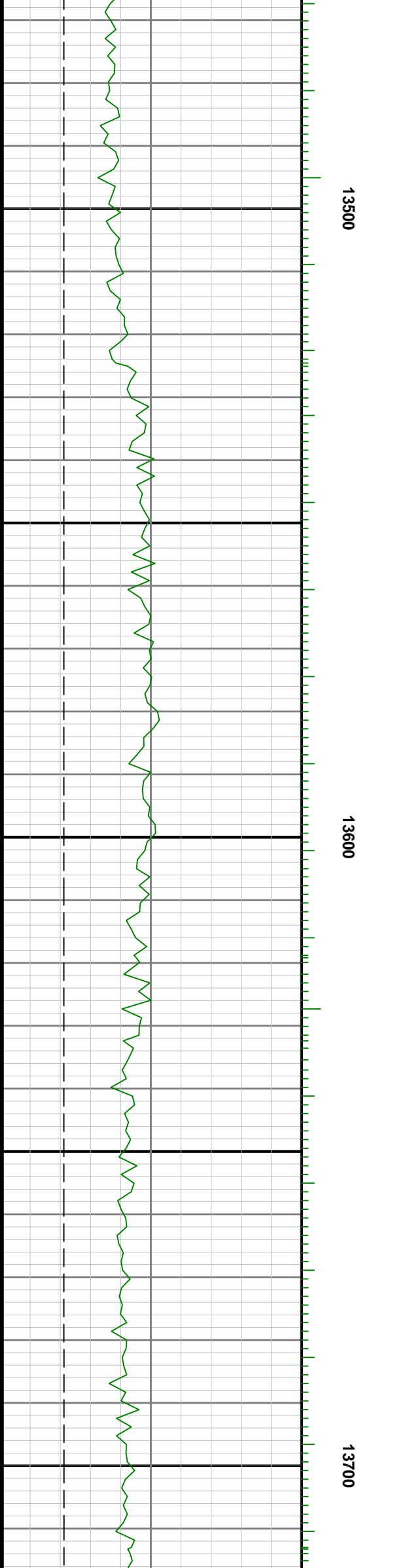
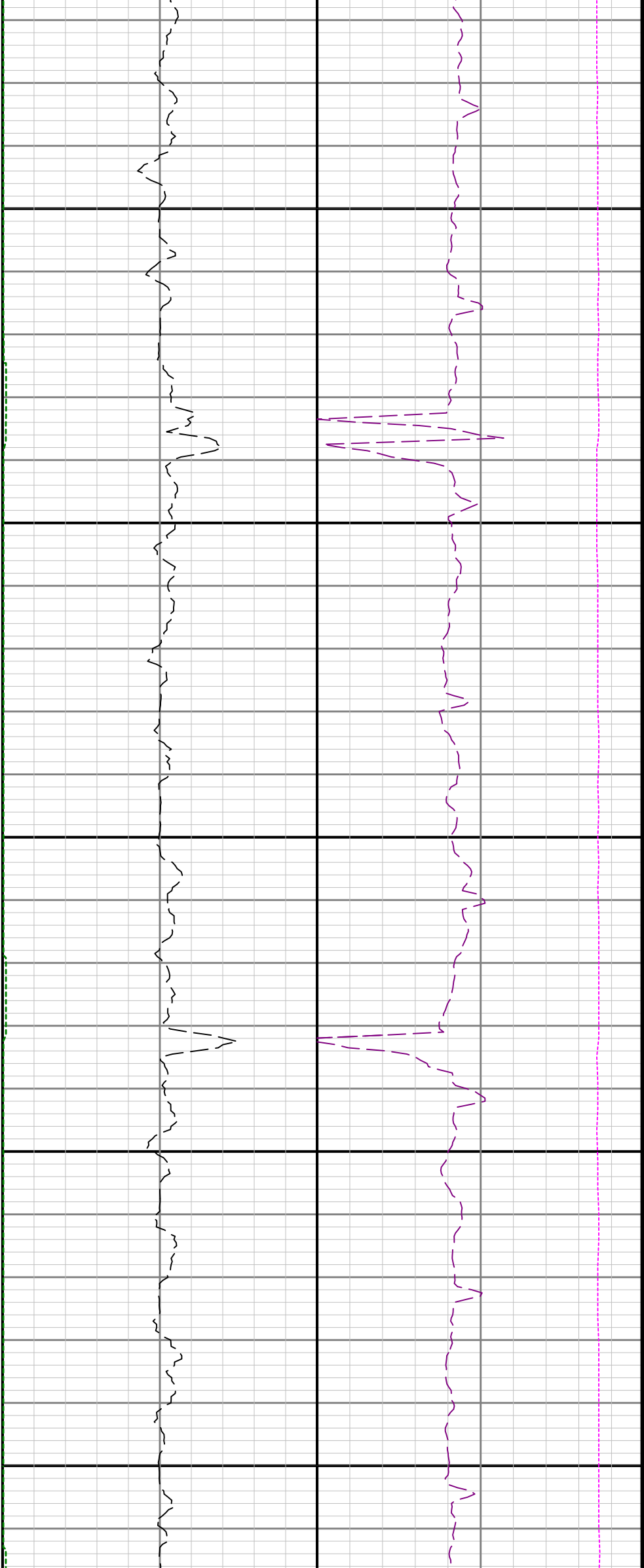


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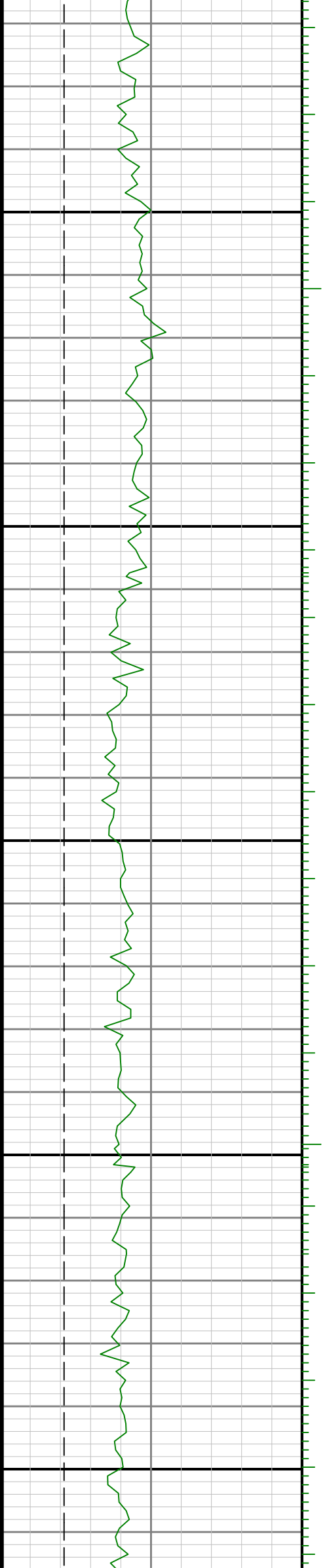


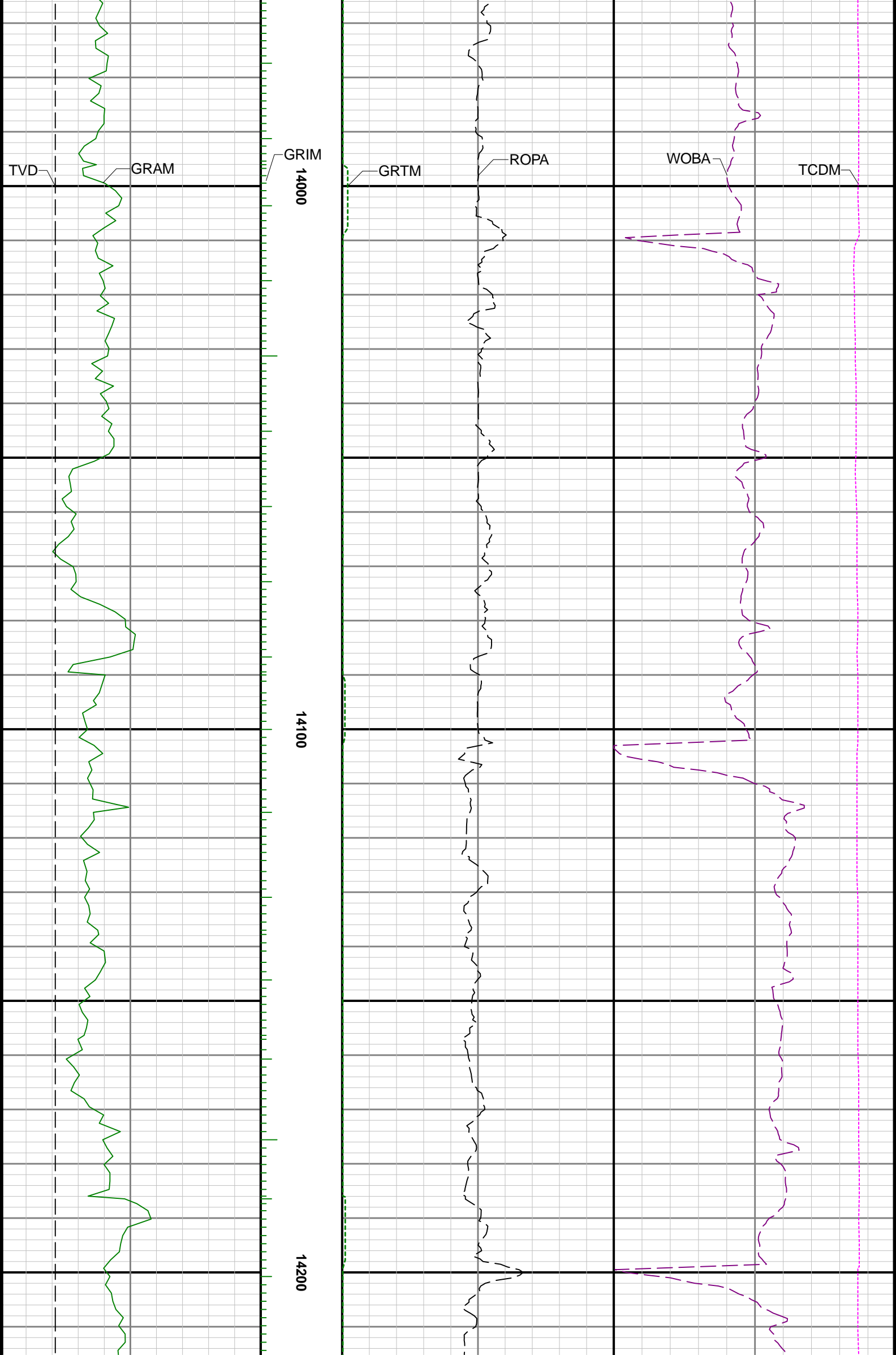


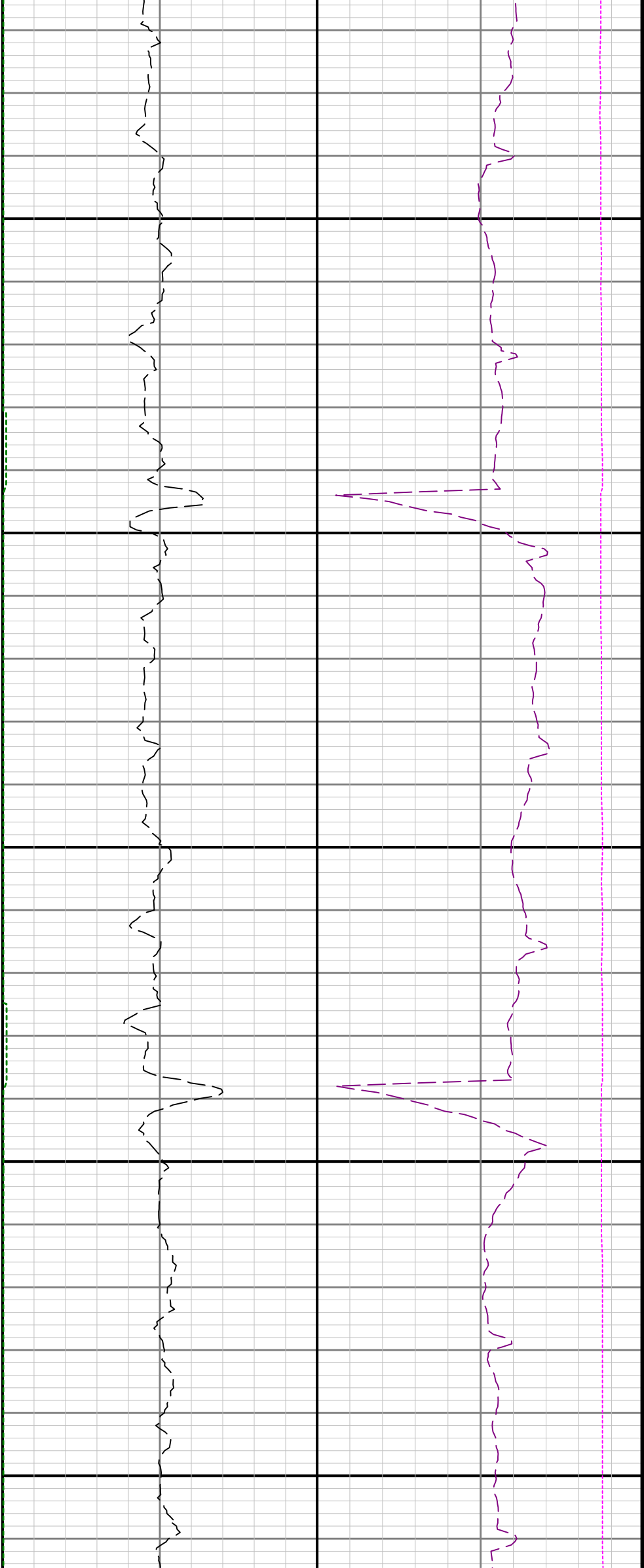


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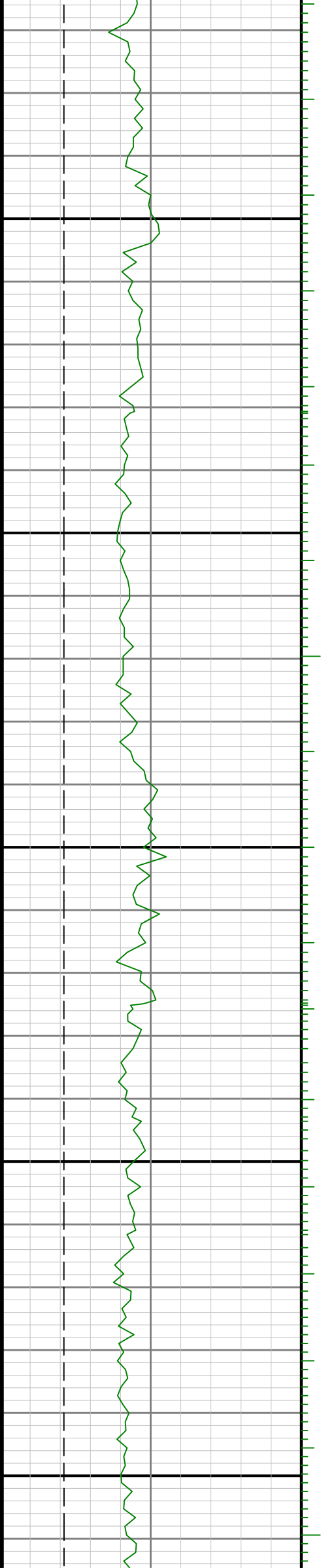


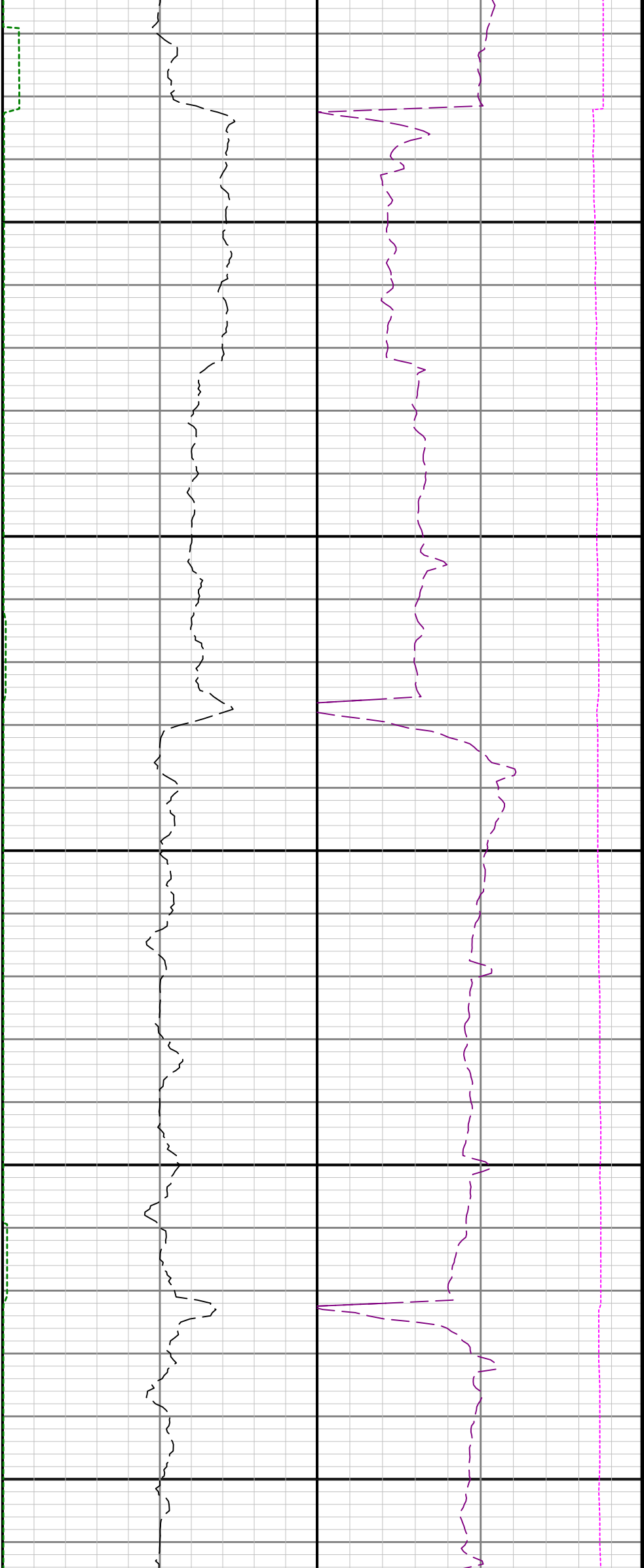




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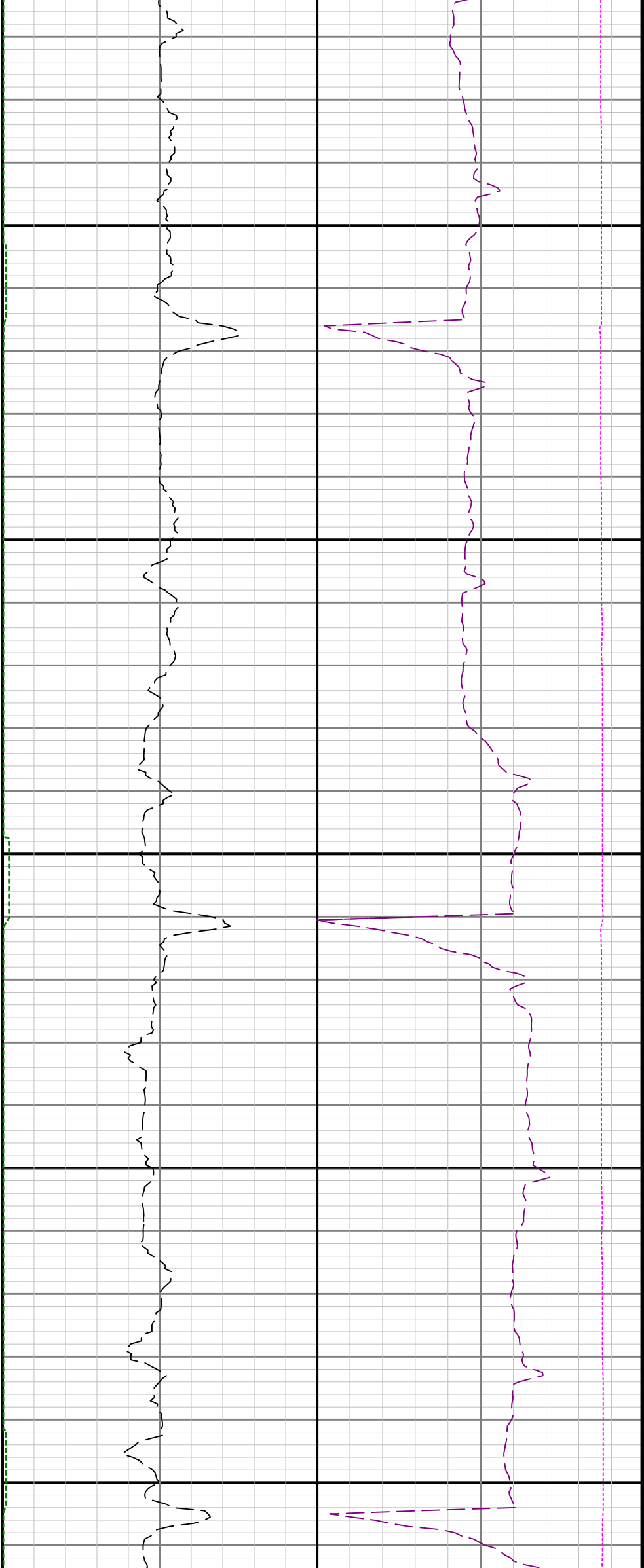




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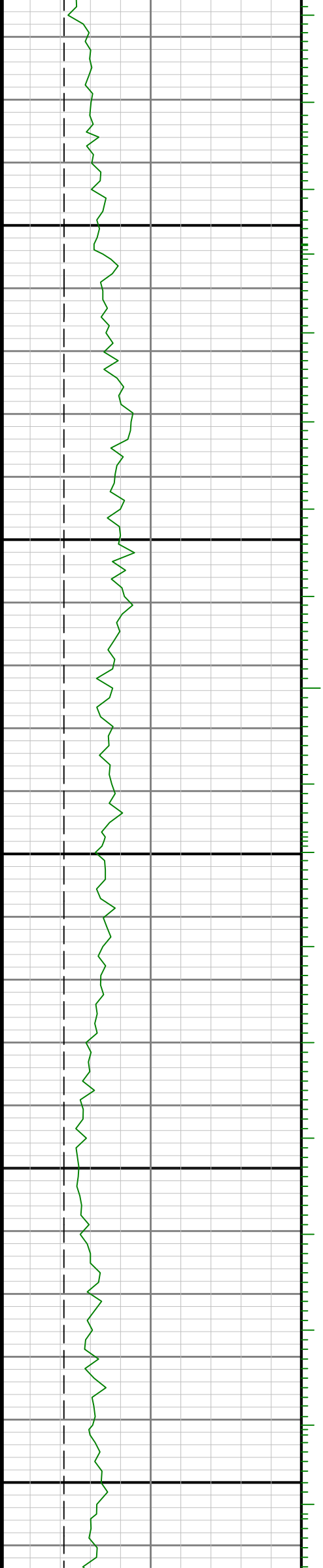
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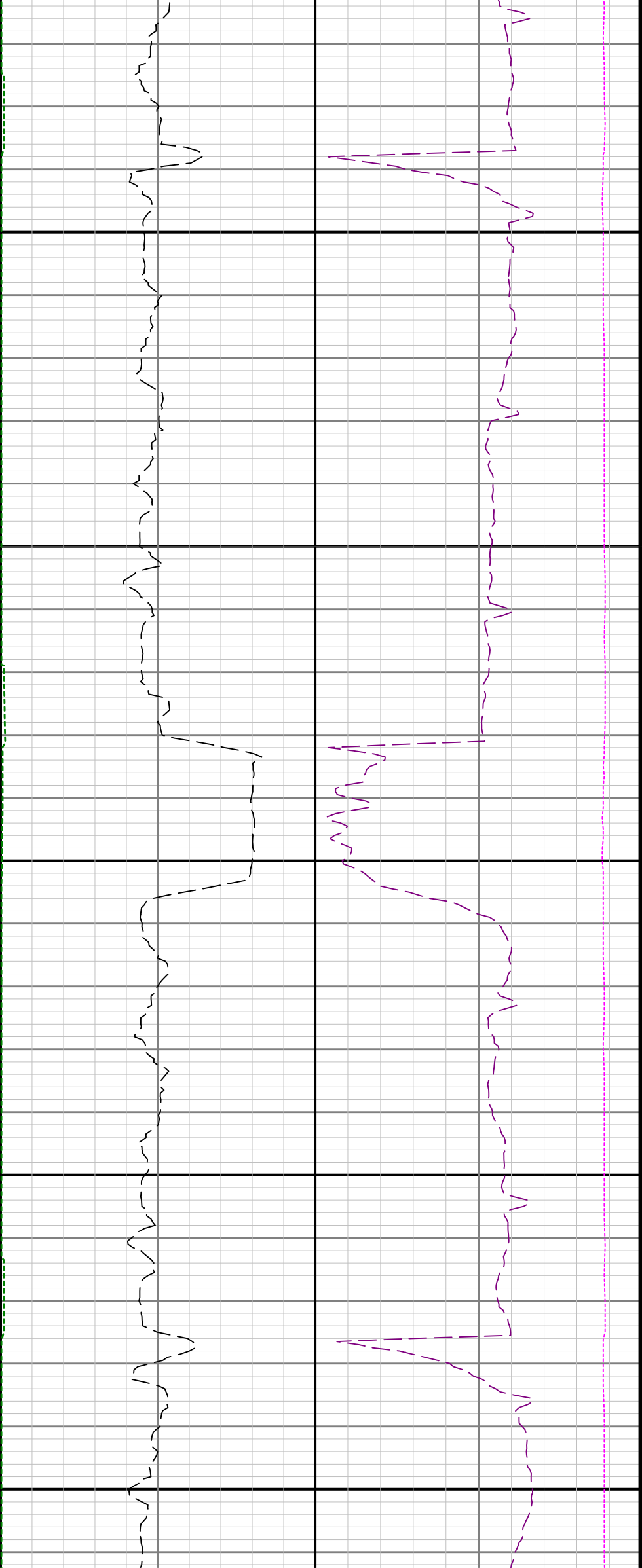


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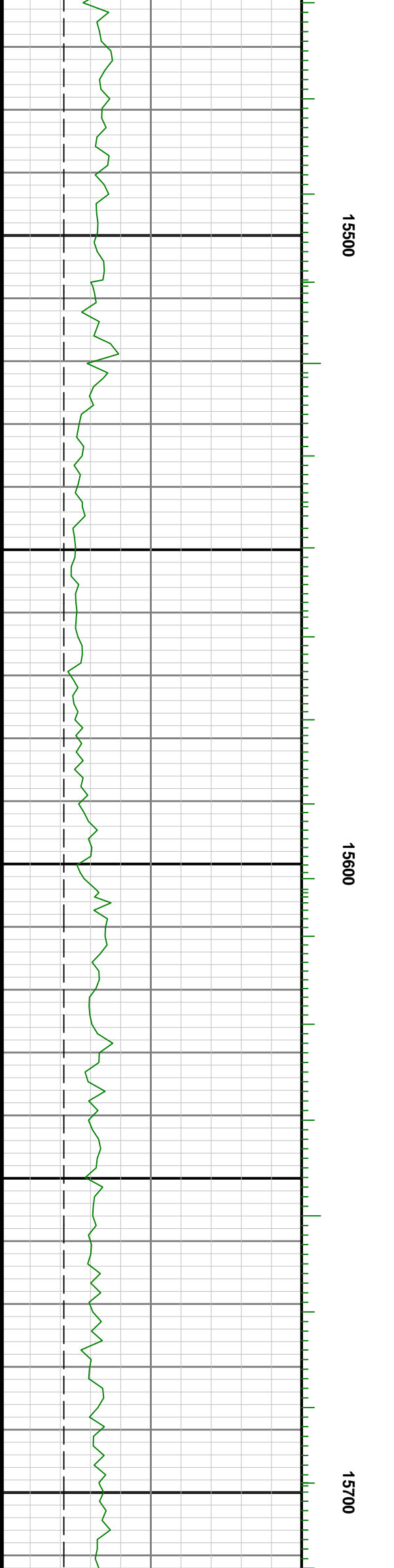
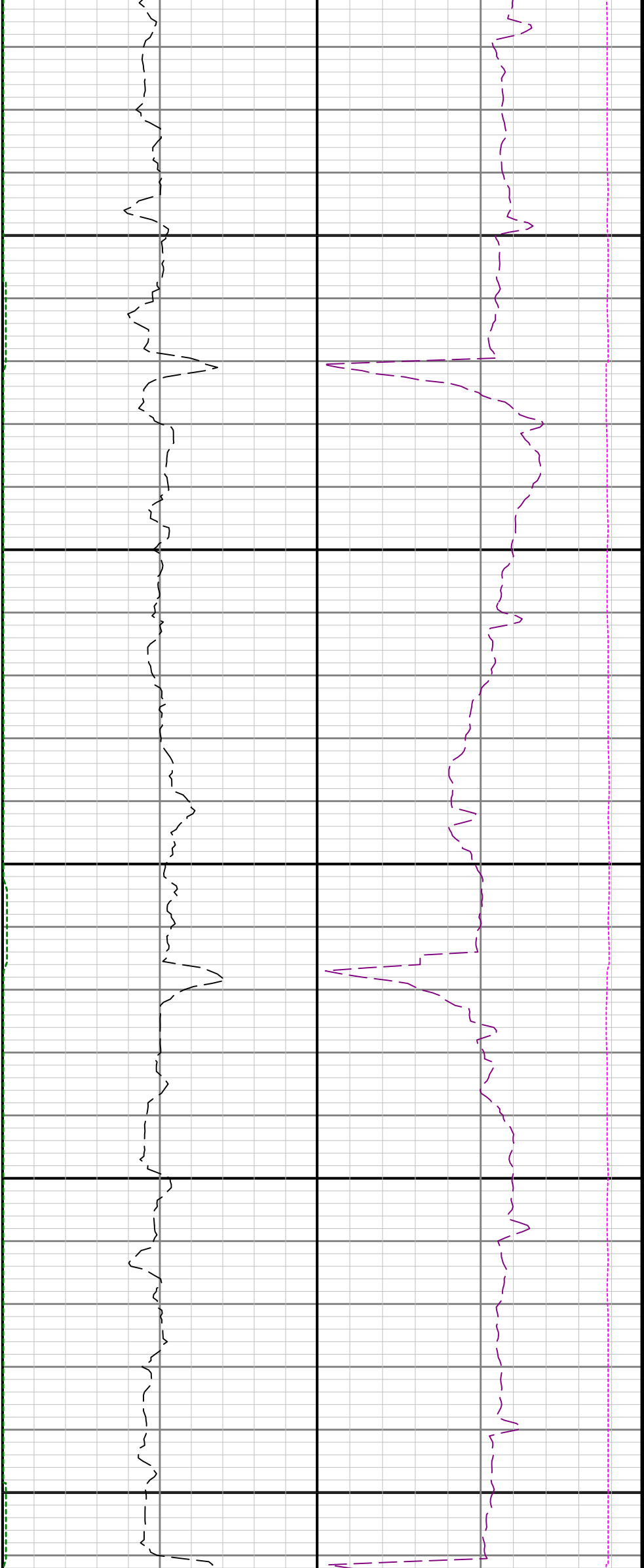


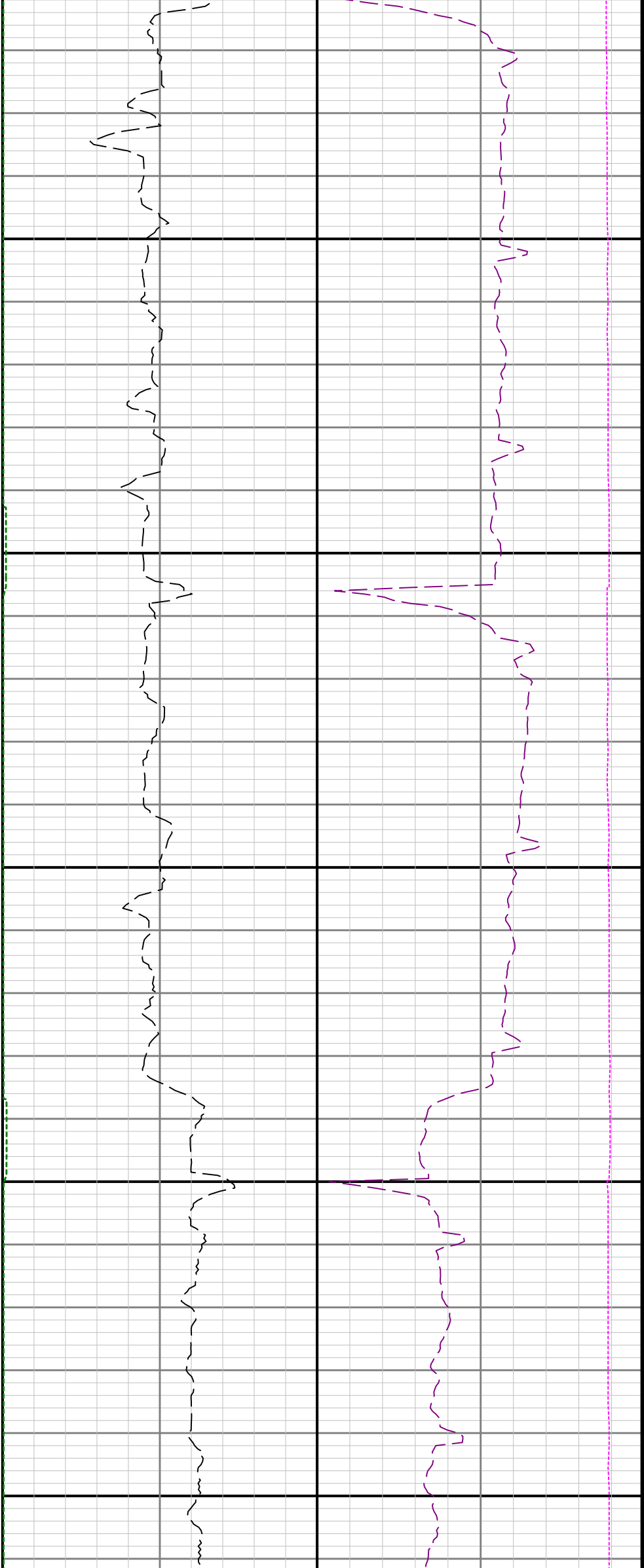


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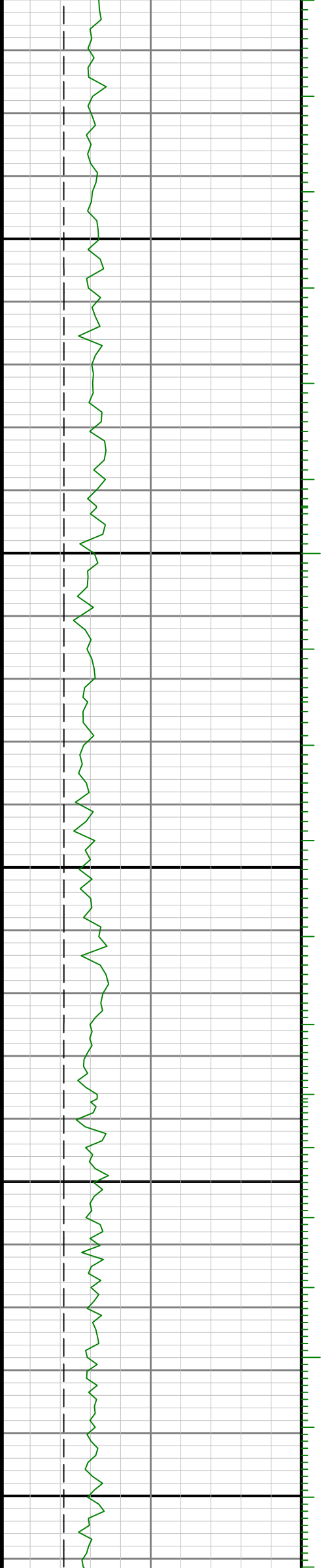






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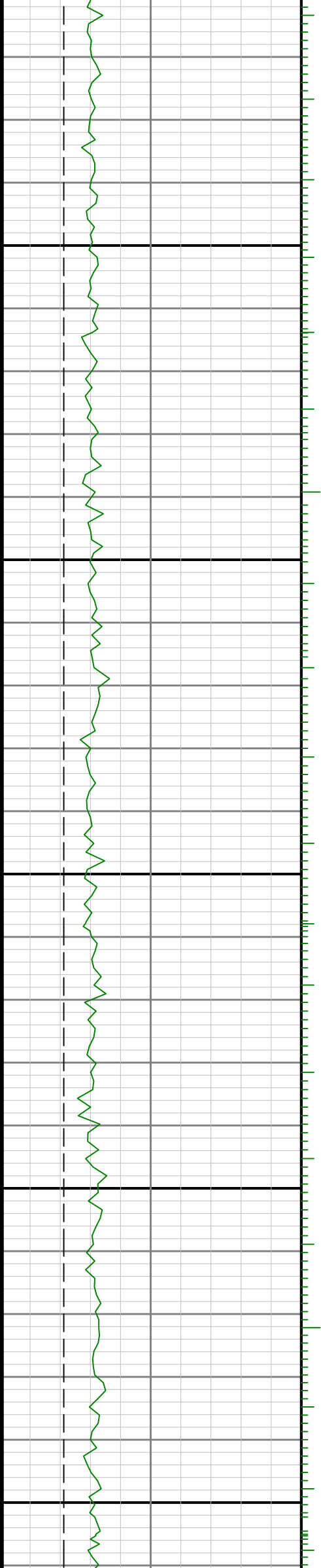






16300

16400

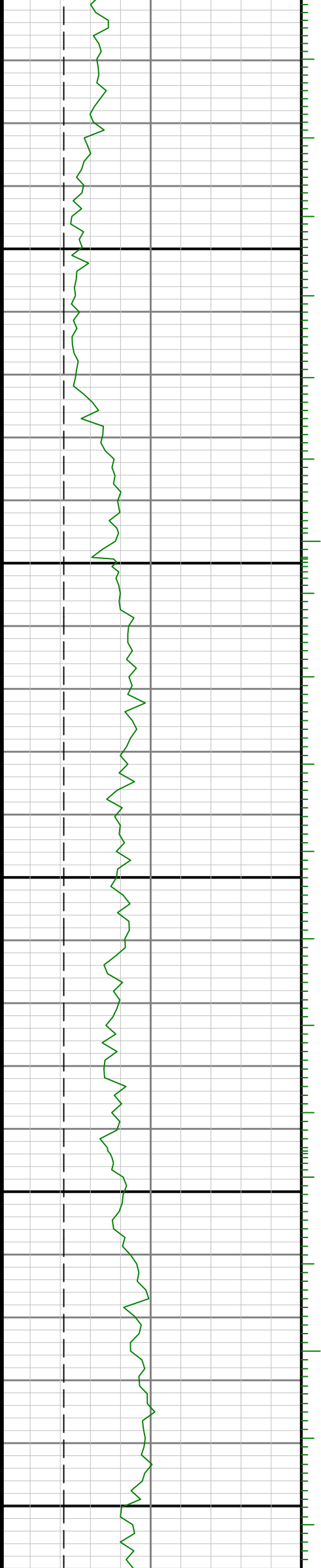


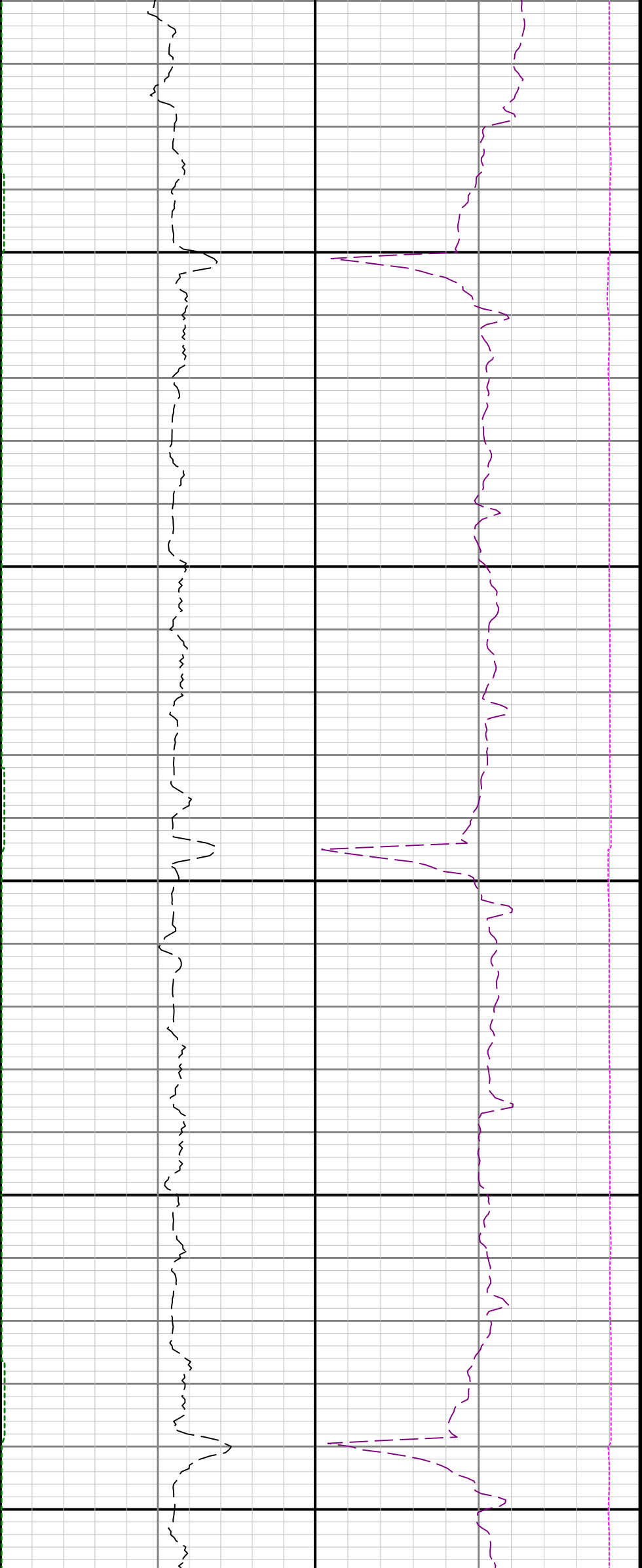


16500

16600

16700





16800

16900

