



2	AutoTrak Curve MWD	14275758	Gamma (single)	2.82	12.95	7.000	3.250
2	AutoTrak Curve MWD	14275758	Directional (mag)	12.27	22.40	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

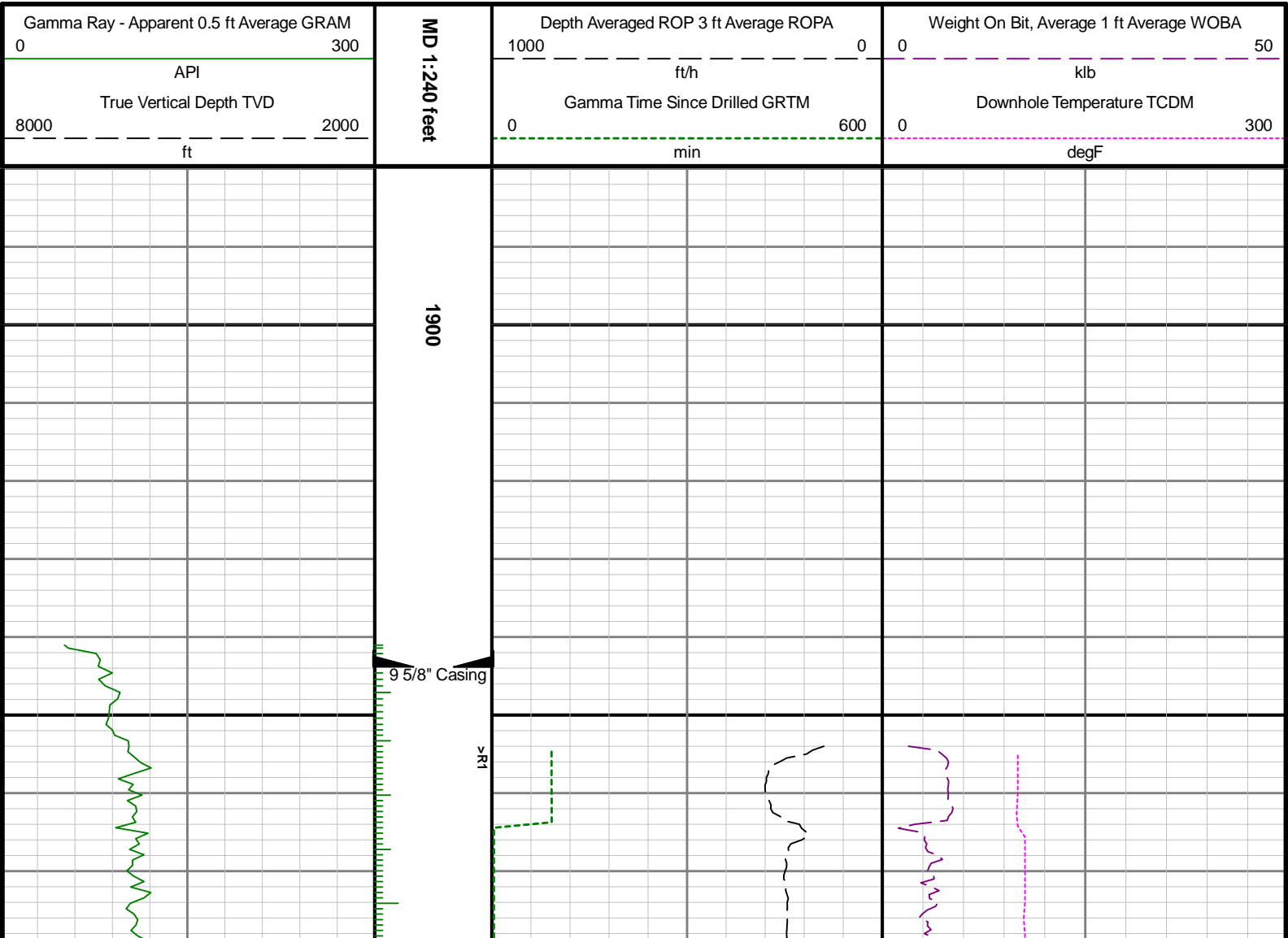
1	Baker Hughes Company runs 1, 2, and xx utilized 6 ¾ inch NaviGamma services (Gamma Ray and Directional) behind an 8 ½ inch PDC bit and rotary steerable assembly from 1954 to 17482 feet MD (1954 to xx feet TVD).
2	Depth measurements were obtained from a depth control system not supplied or operated 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.

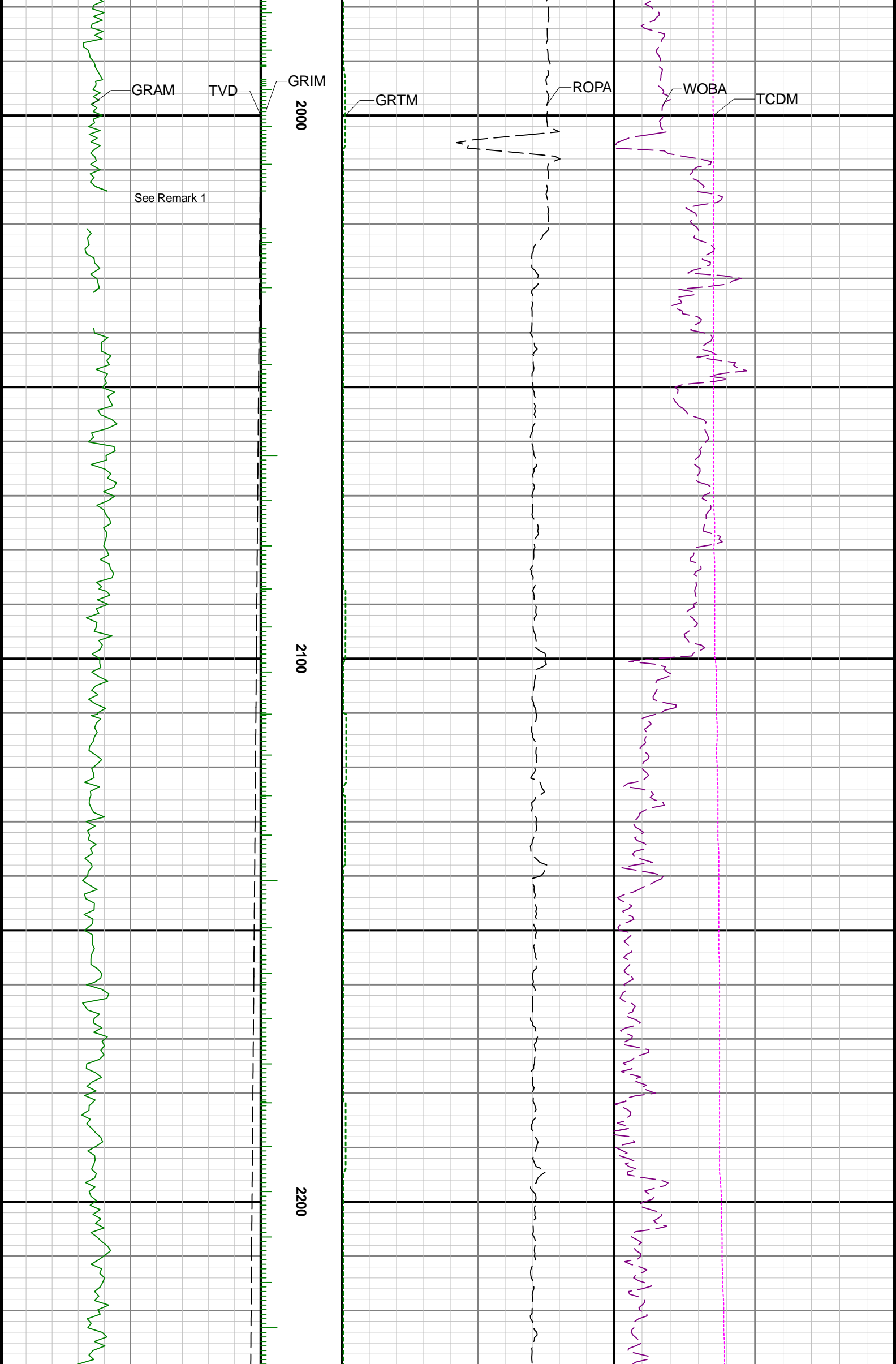
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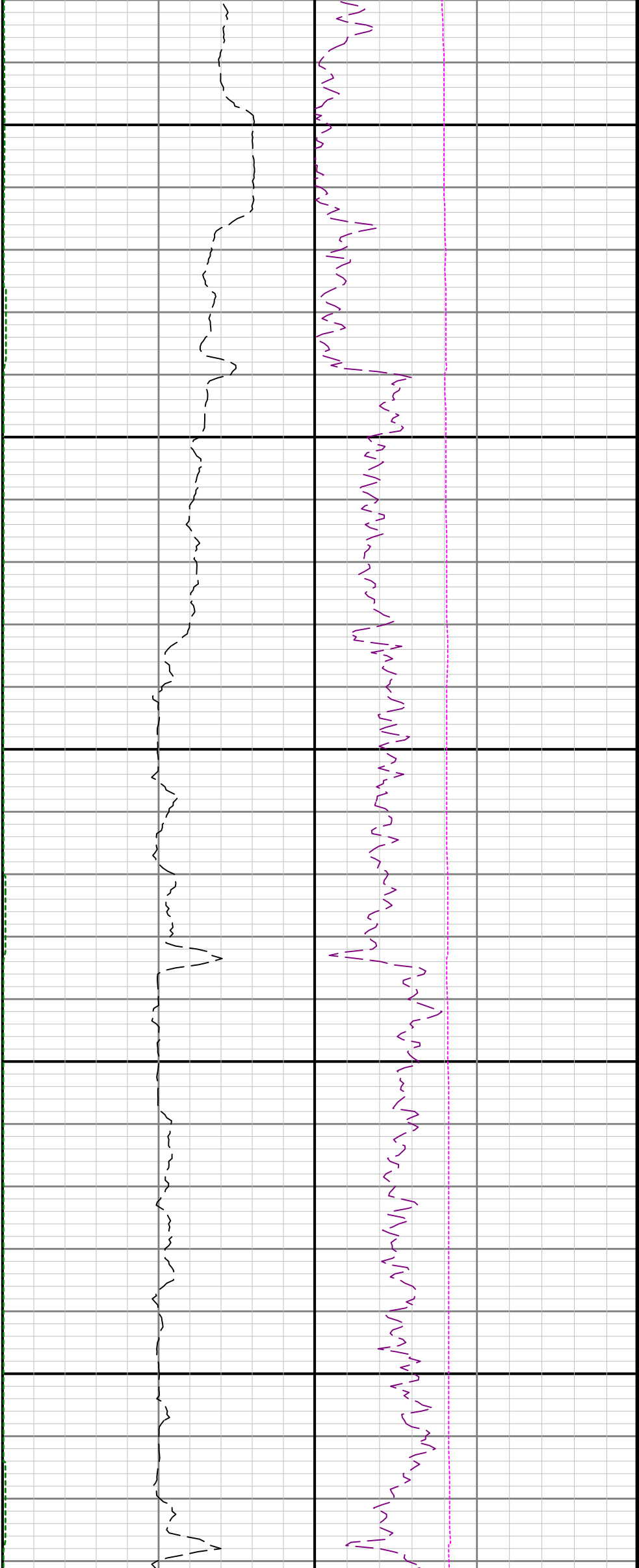
Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	2020.00	8.500	1	Various intervals from 2013 to 2039 feet MD (2013 to 2019 feet TVD) were not logged due to a high ROP while downlinking.
2	6130.00	8.500	1	The interval from 6125 to 6131 feet MD (5917 to 5923 feet TVD) was not logged due to a temporary failure of third party depth tracking system therefore, no drilling data was acquired.
3	7123.00	8.500	2	The interval from 7120 to 7225 feet MD (6648 to 6663 feet TVD) was logged up to 10 hours after being drilled due to a trip out of the hole for MWD tool failure.
4	17245.00	8.500	2	The interval from 17241 to 17483 feet MD (6653 to 6650 feet TVD) was not logged due to MWD tool failure and 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

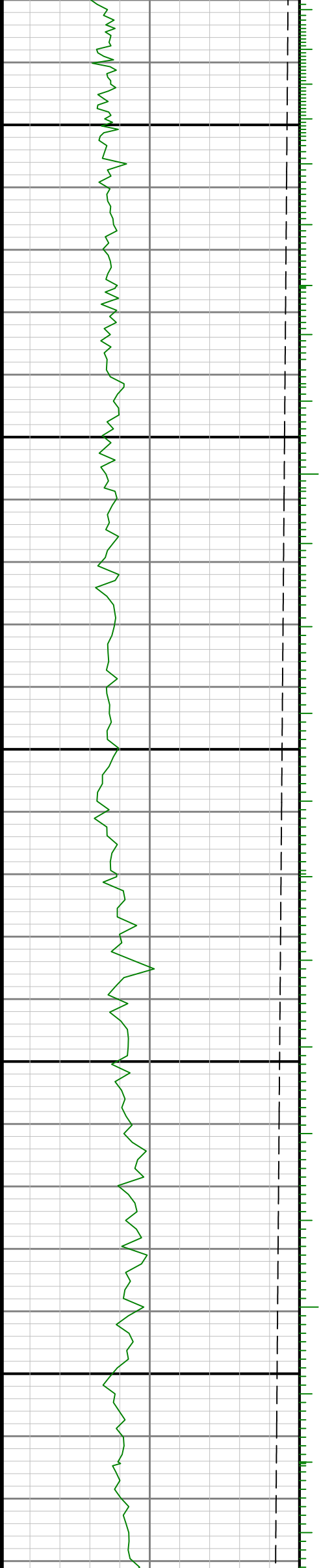


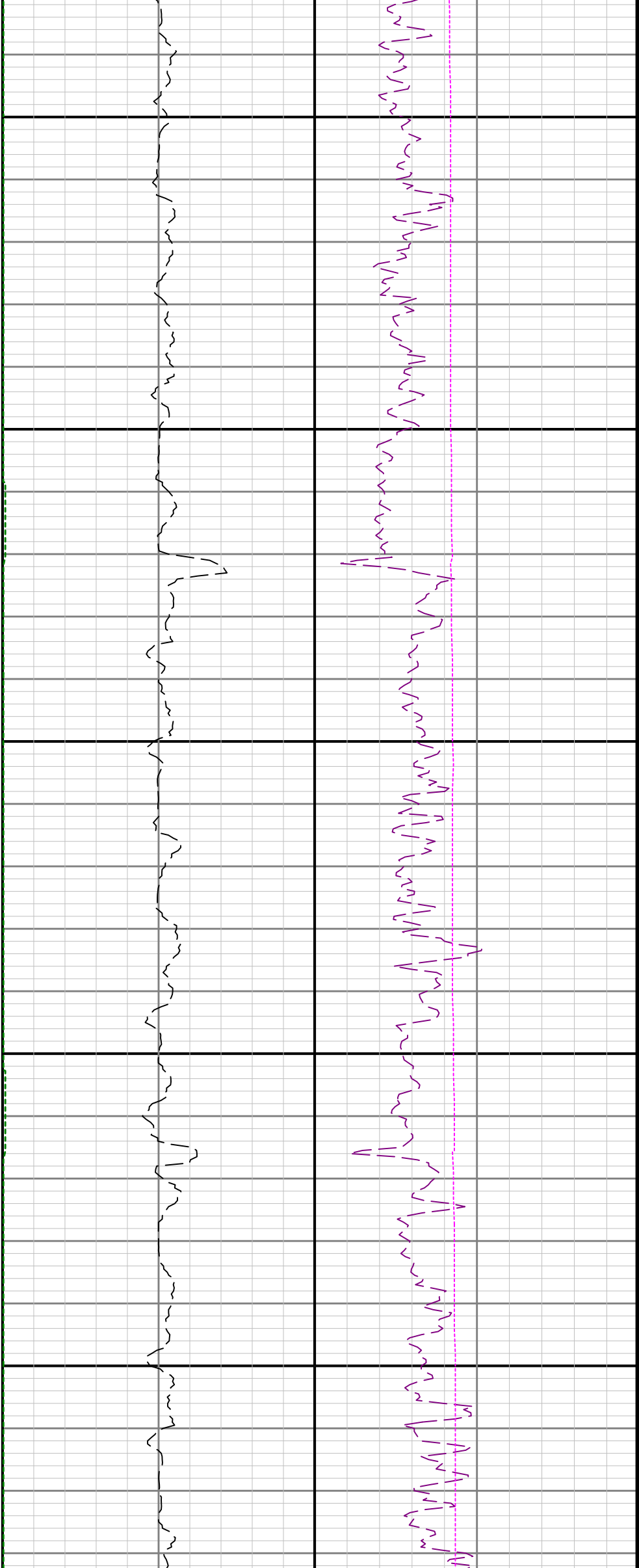




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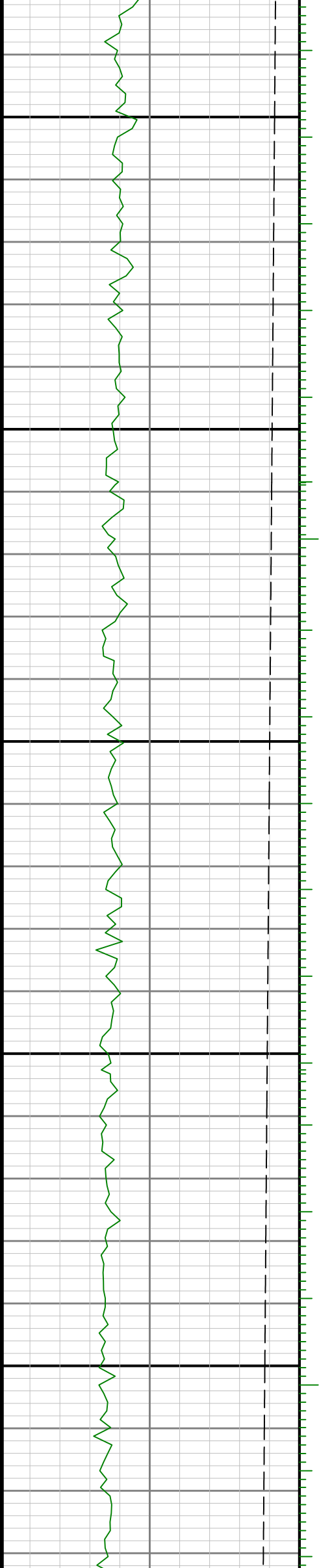


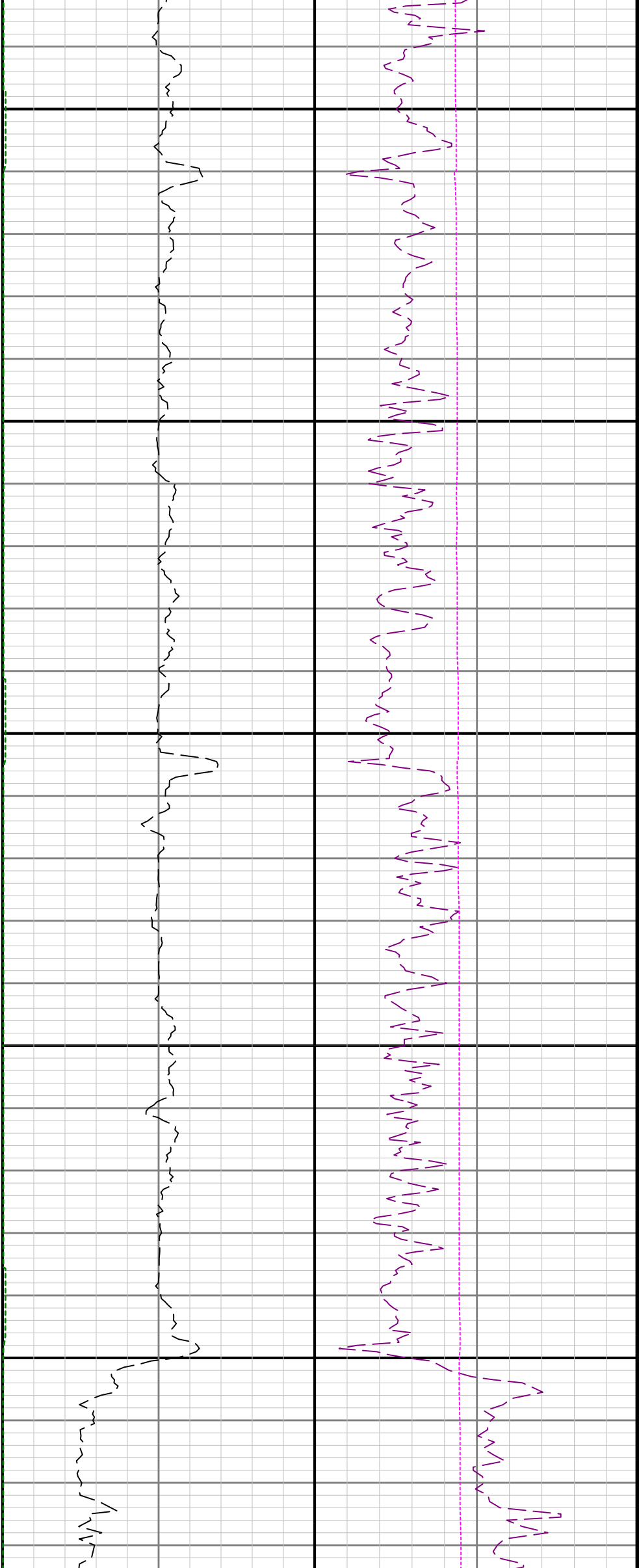


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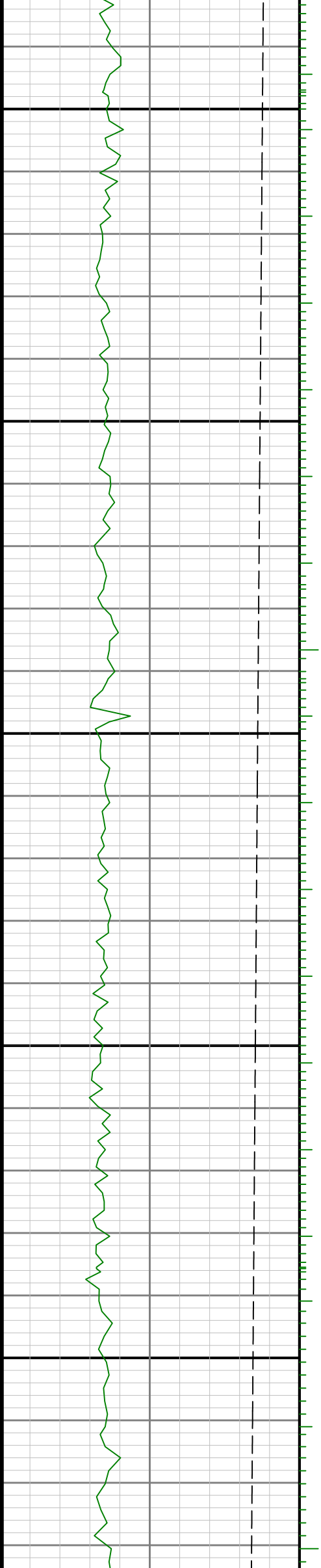
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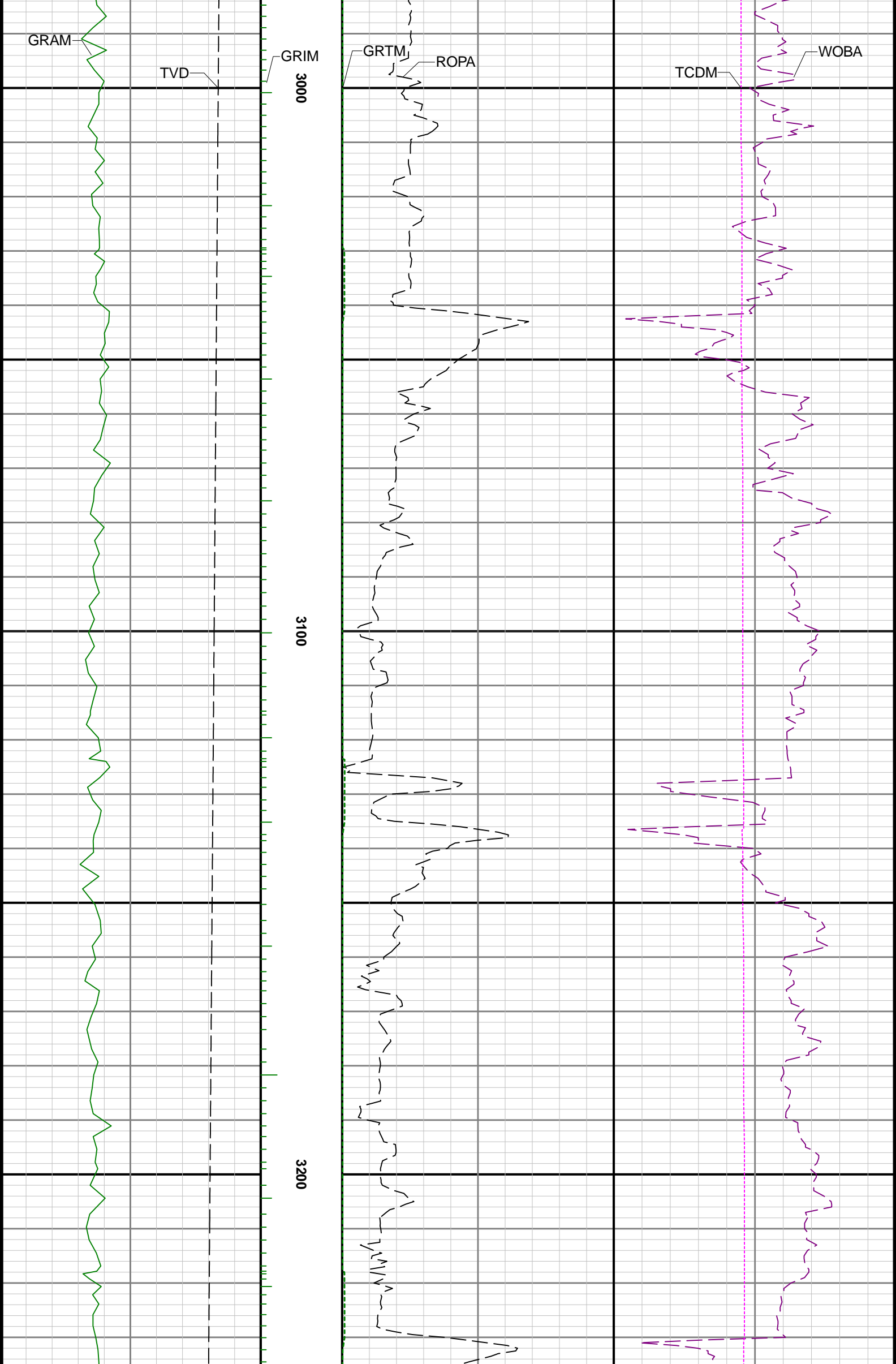


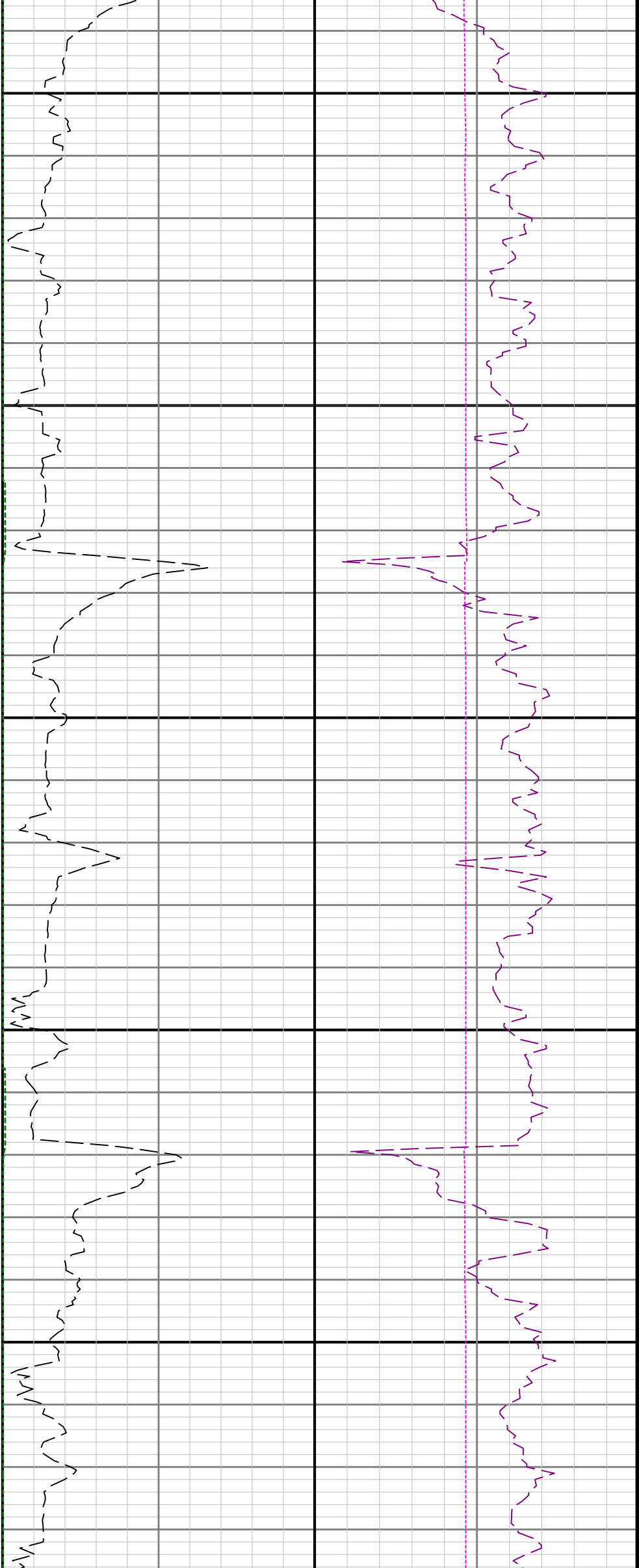


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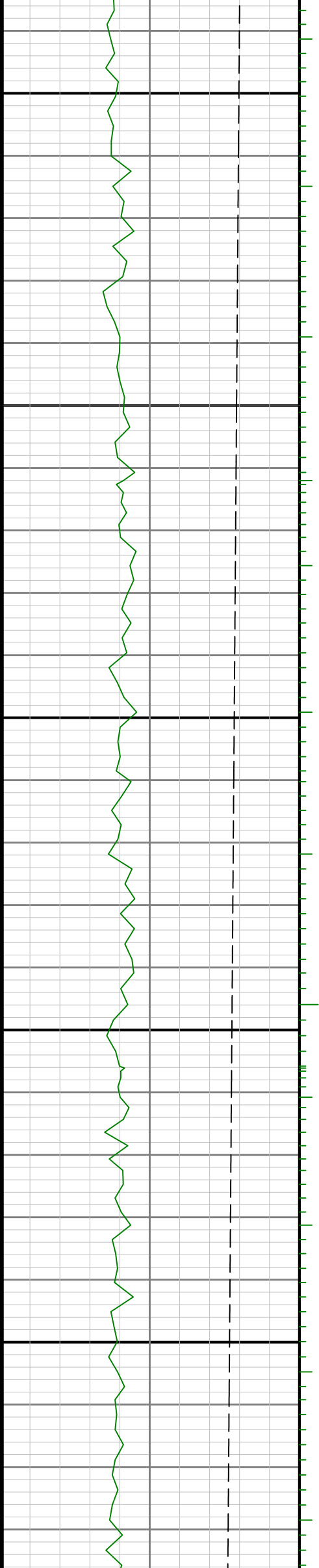




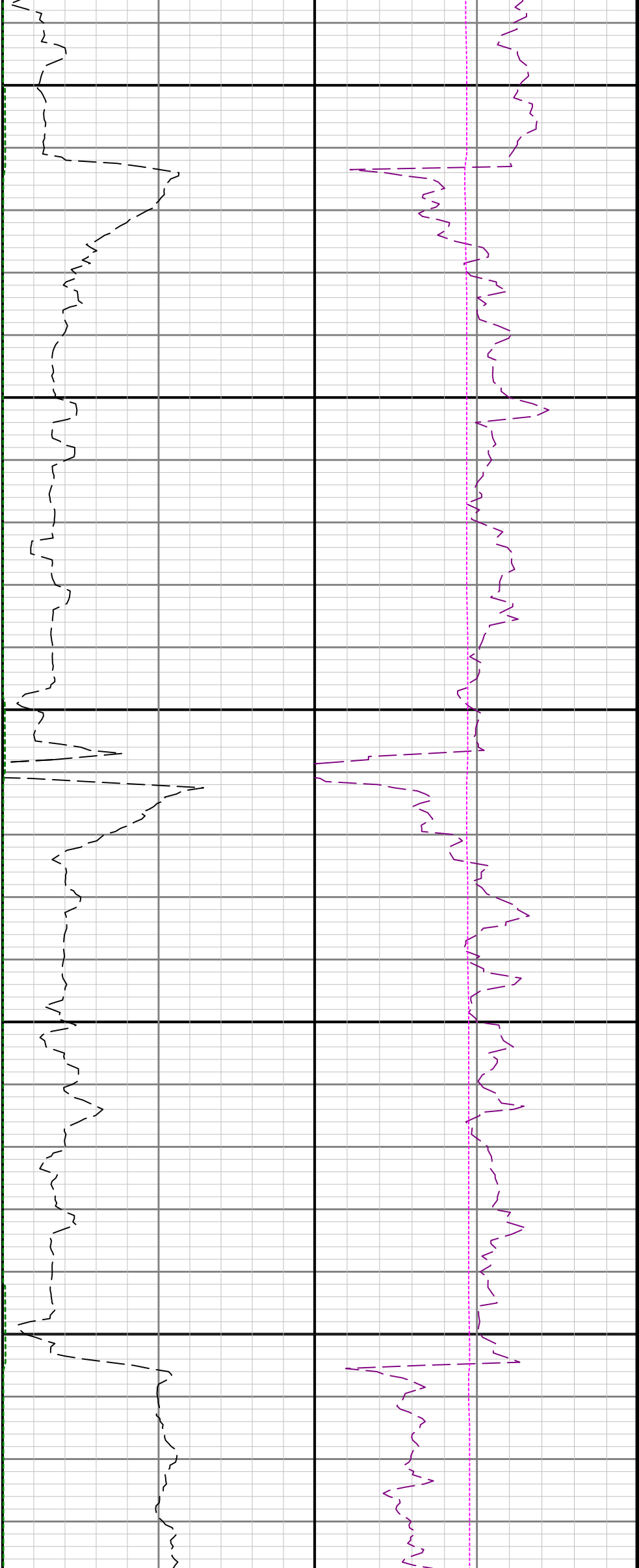


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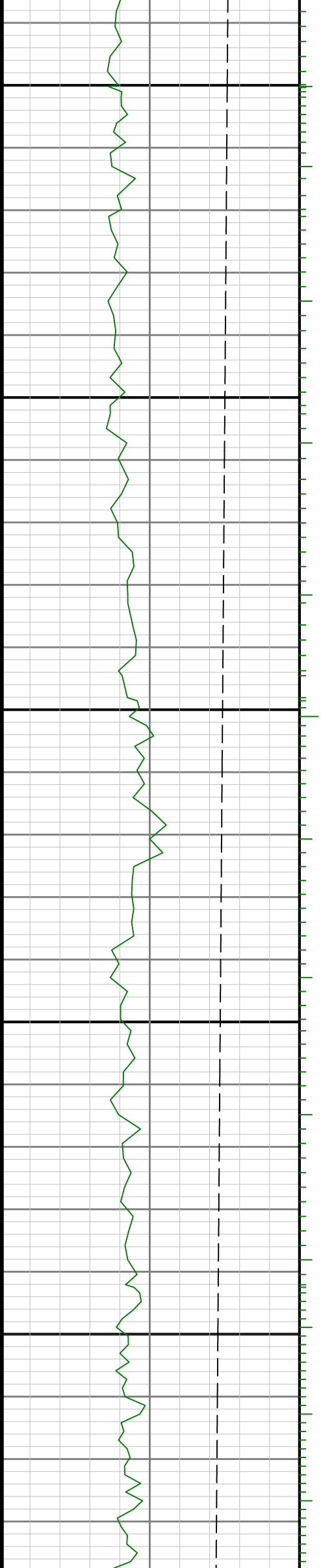


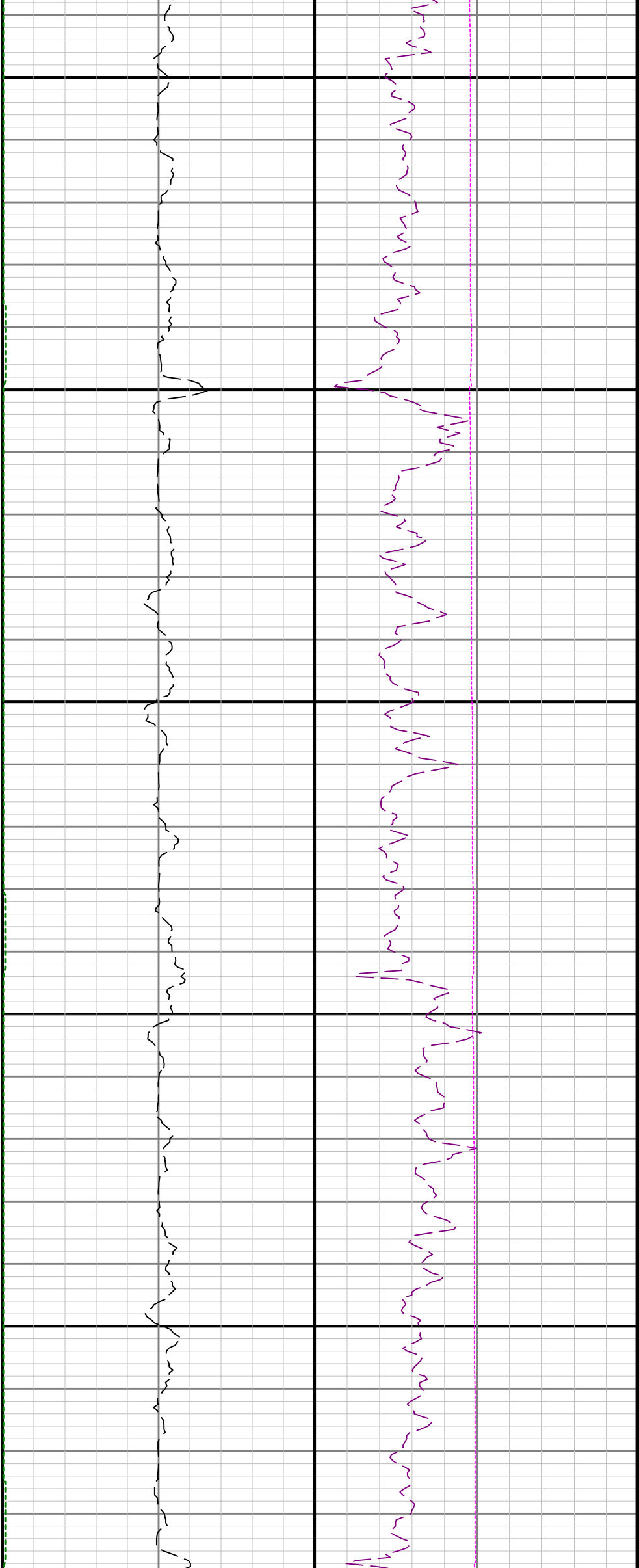


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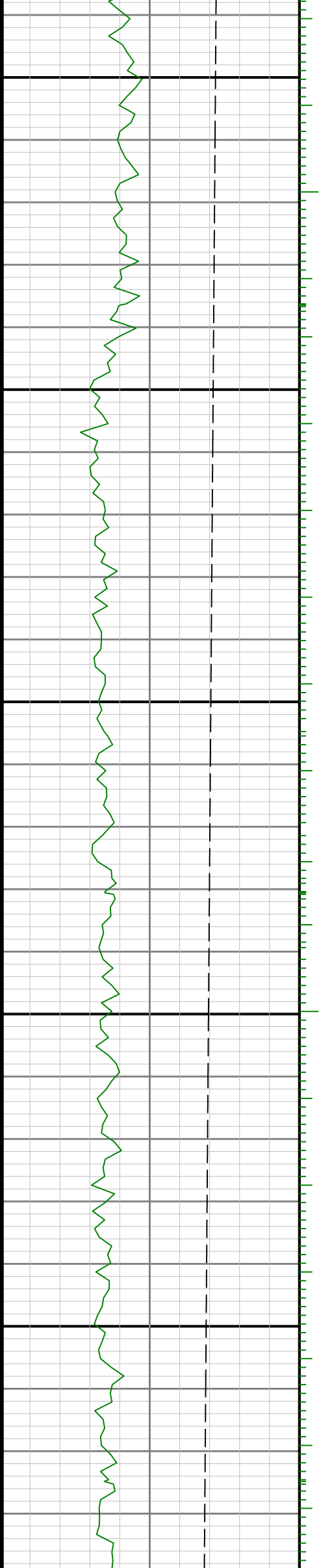
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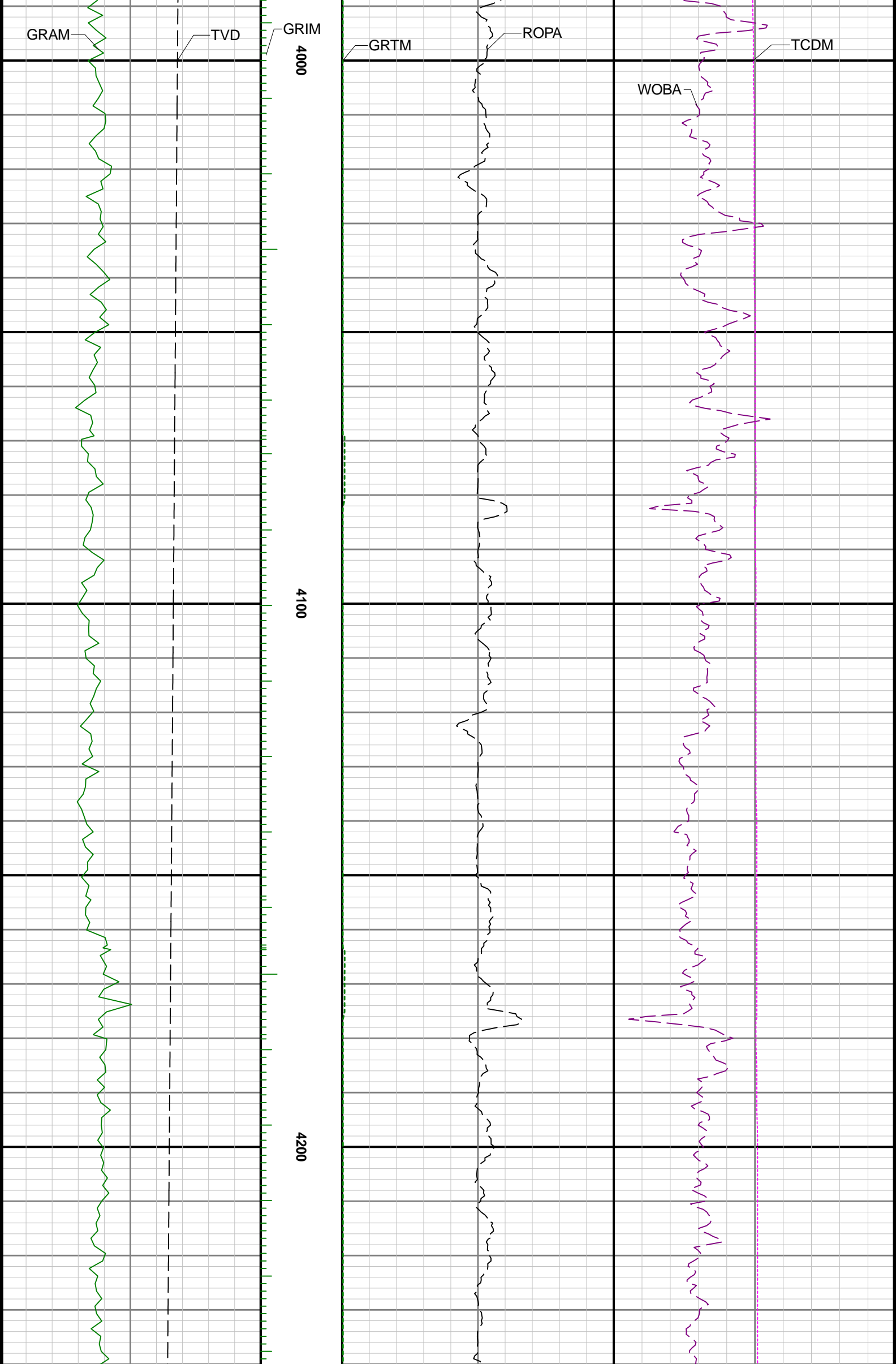


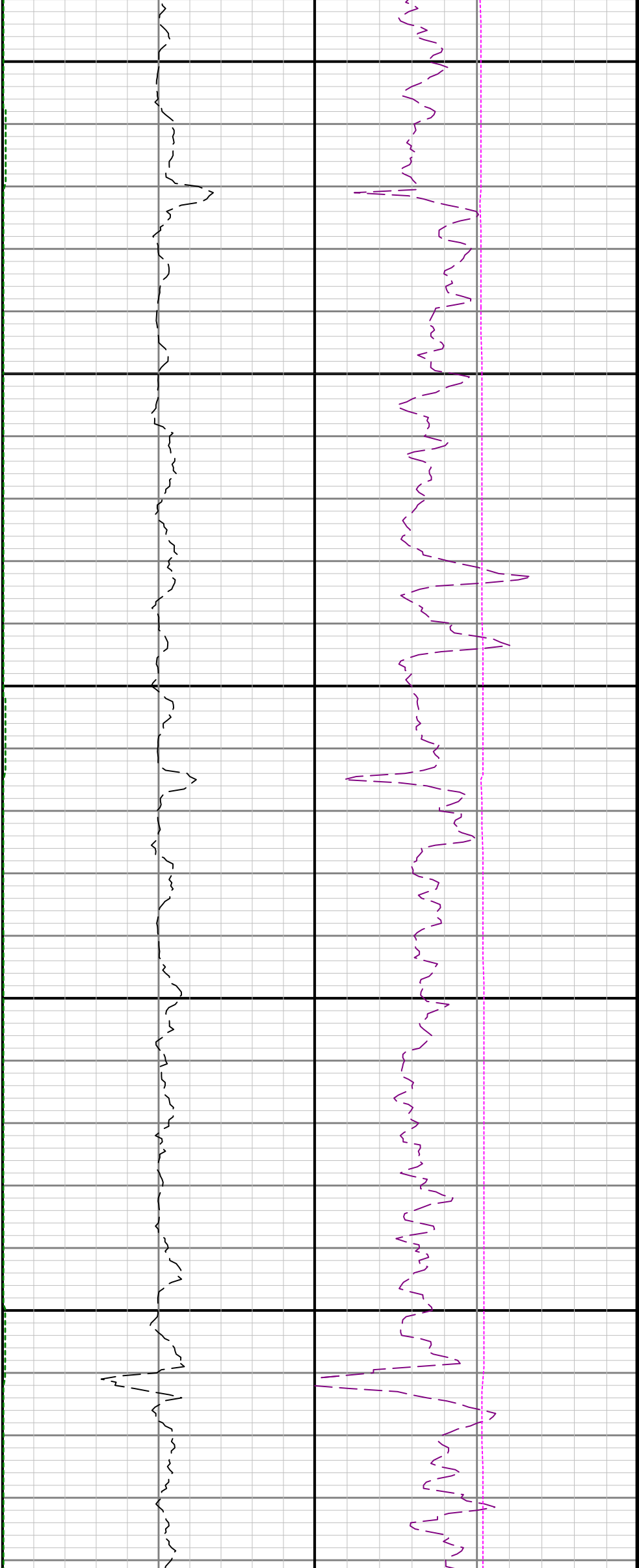


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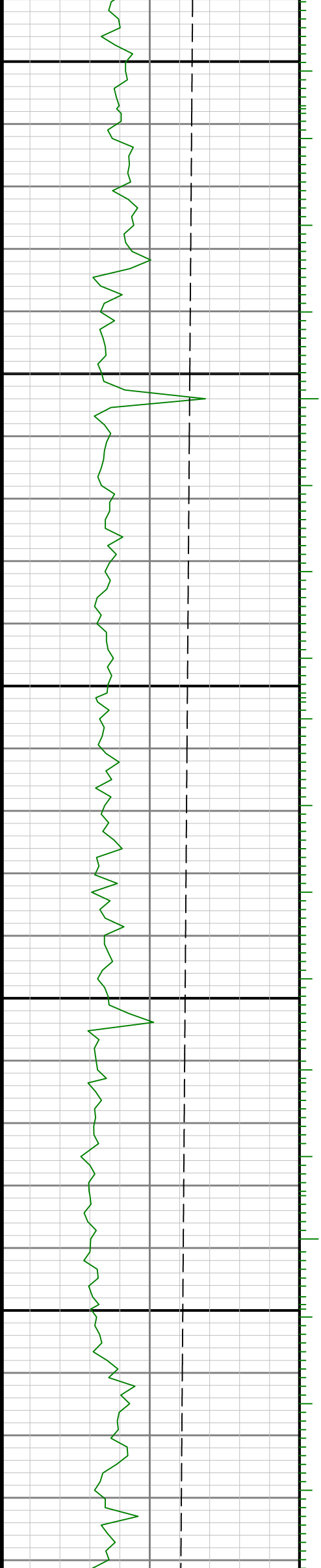


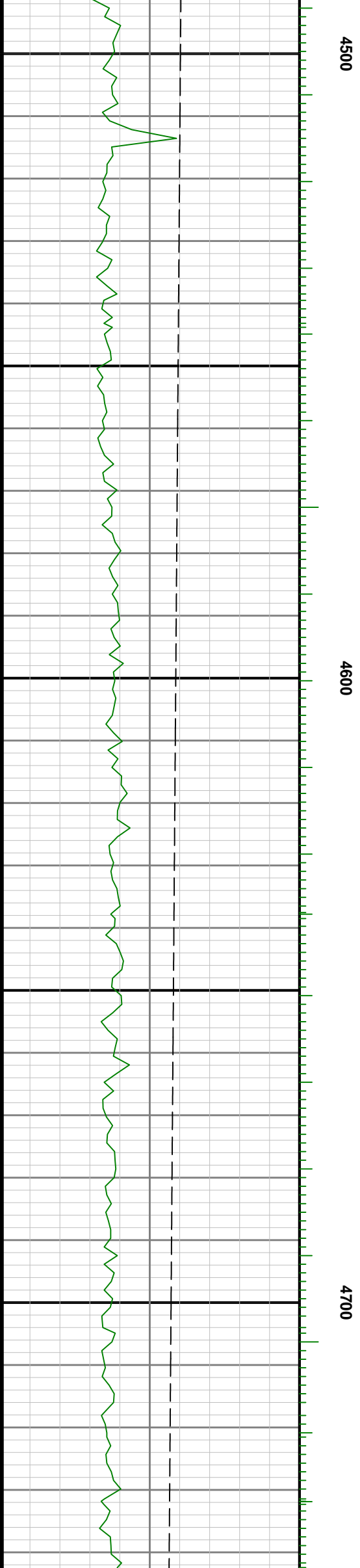
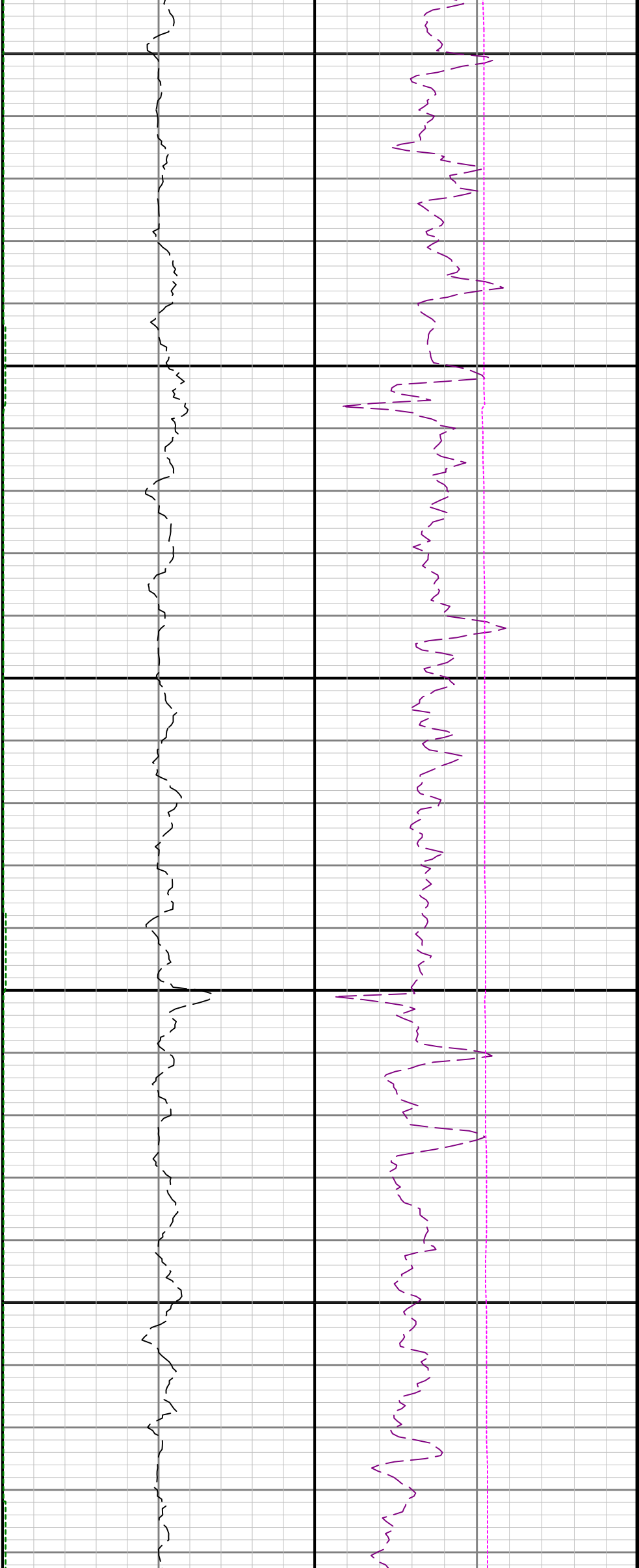


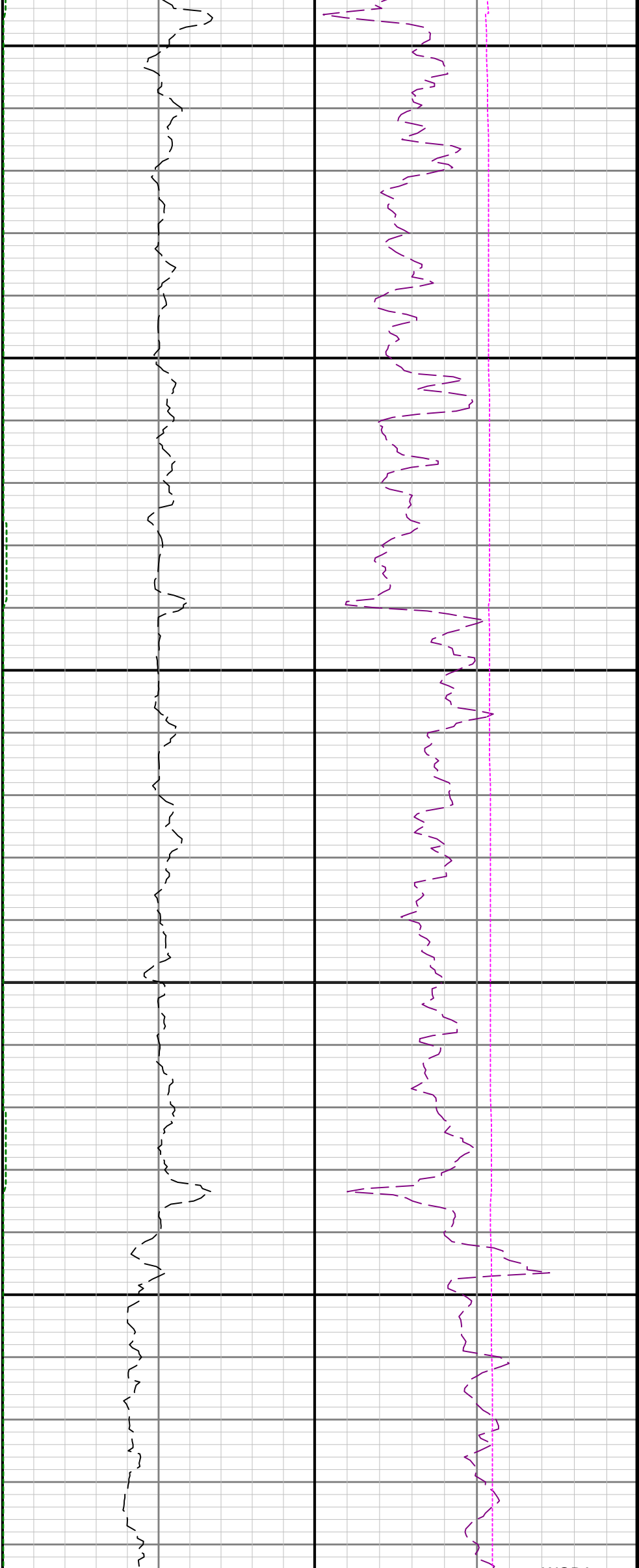


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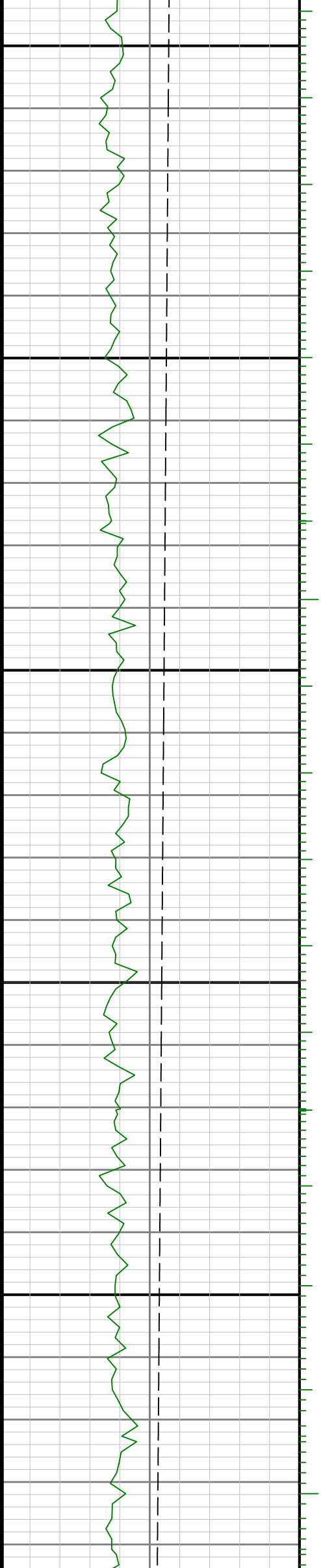


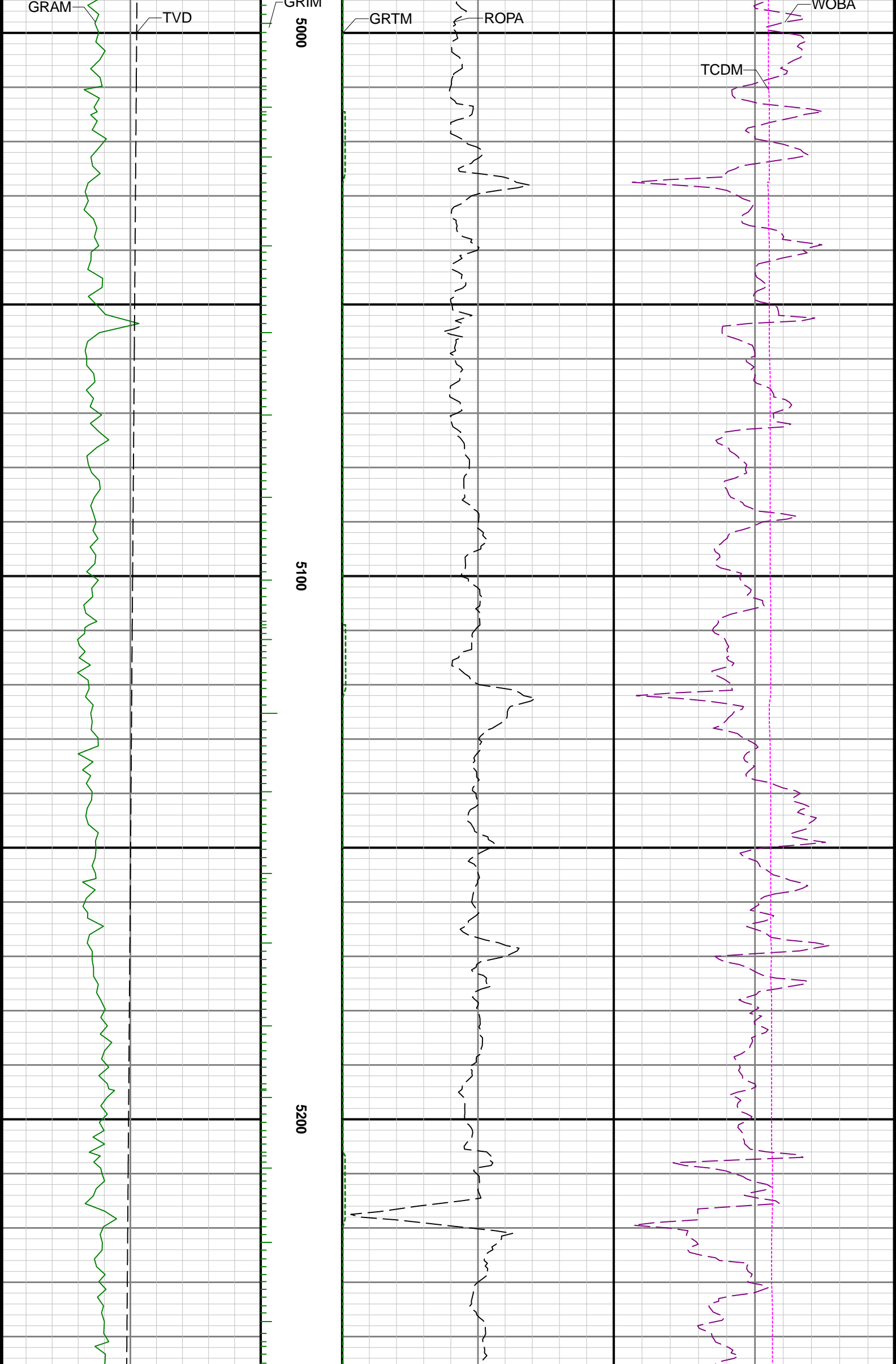


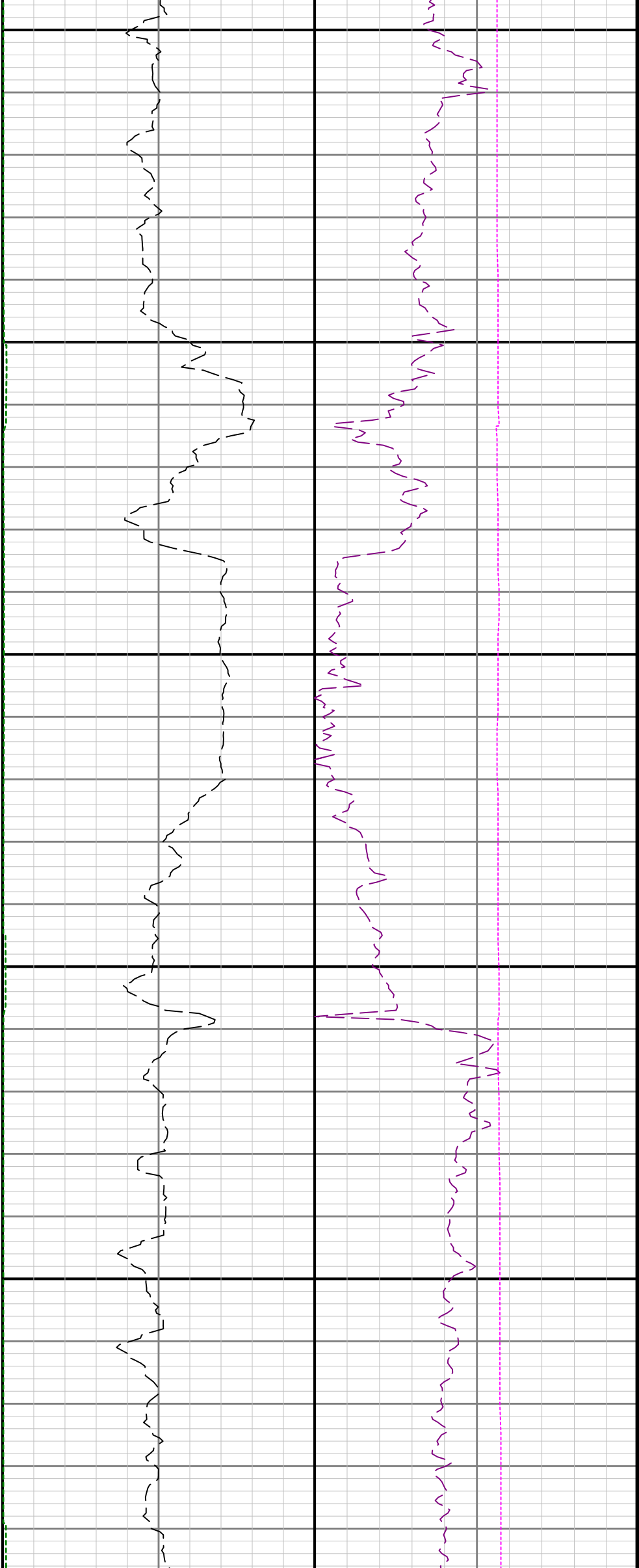


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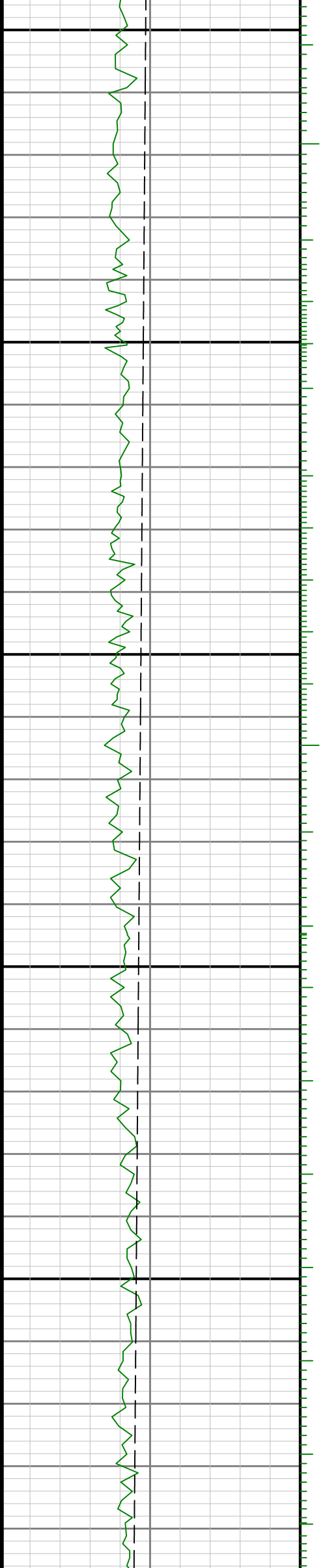




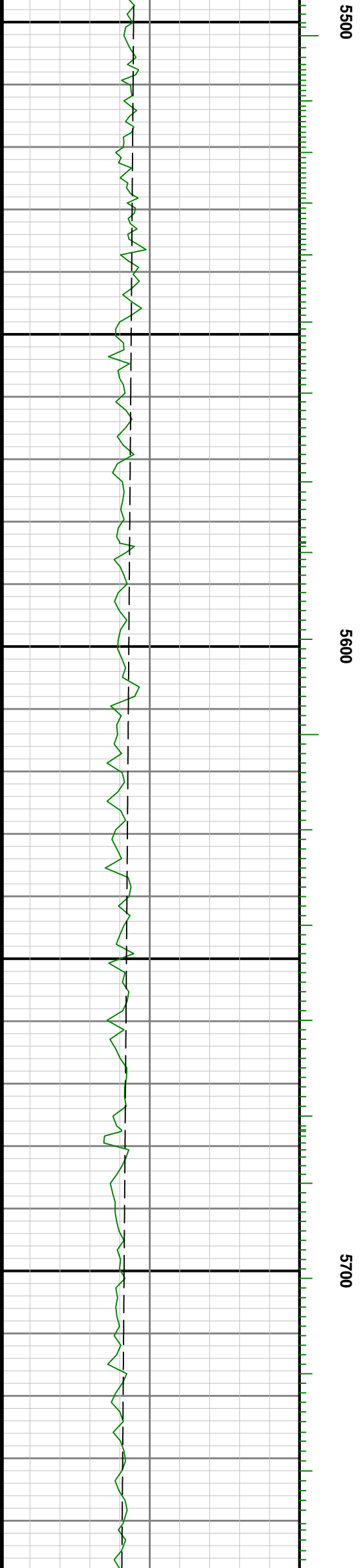
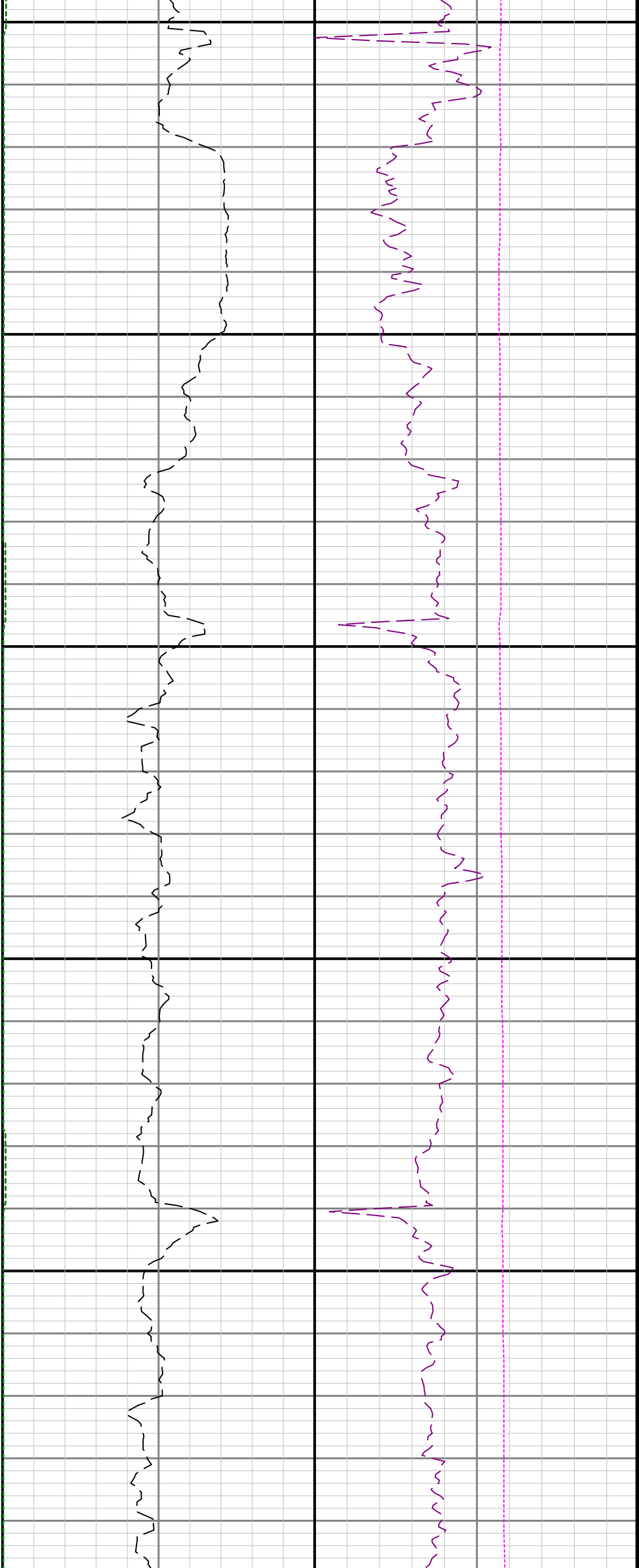


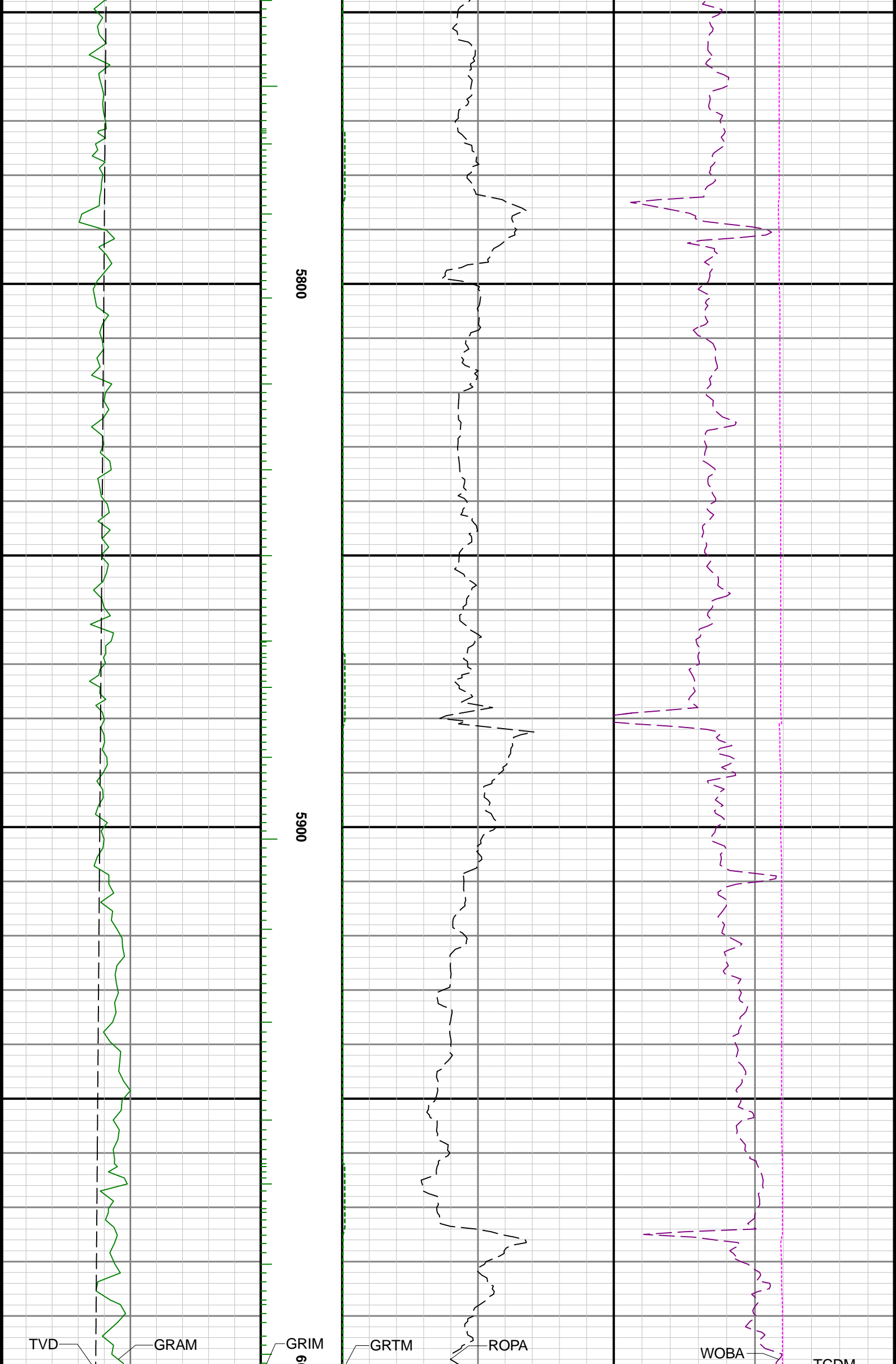
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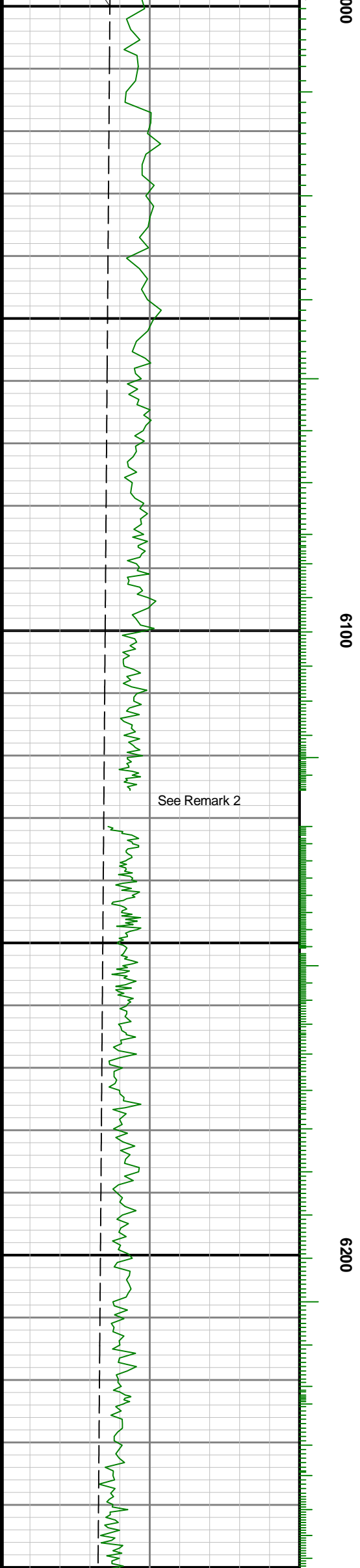
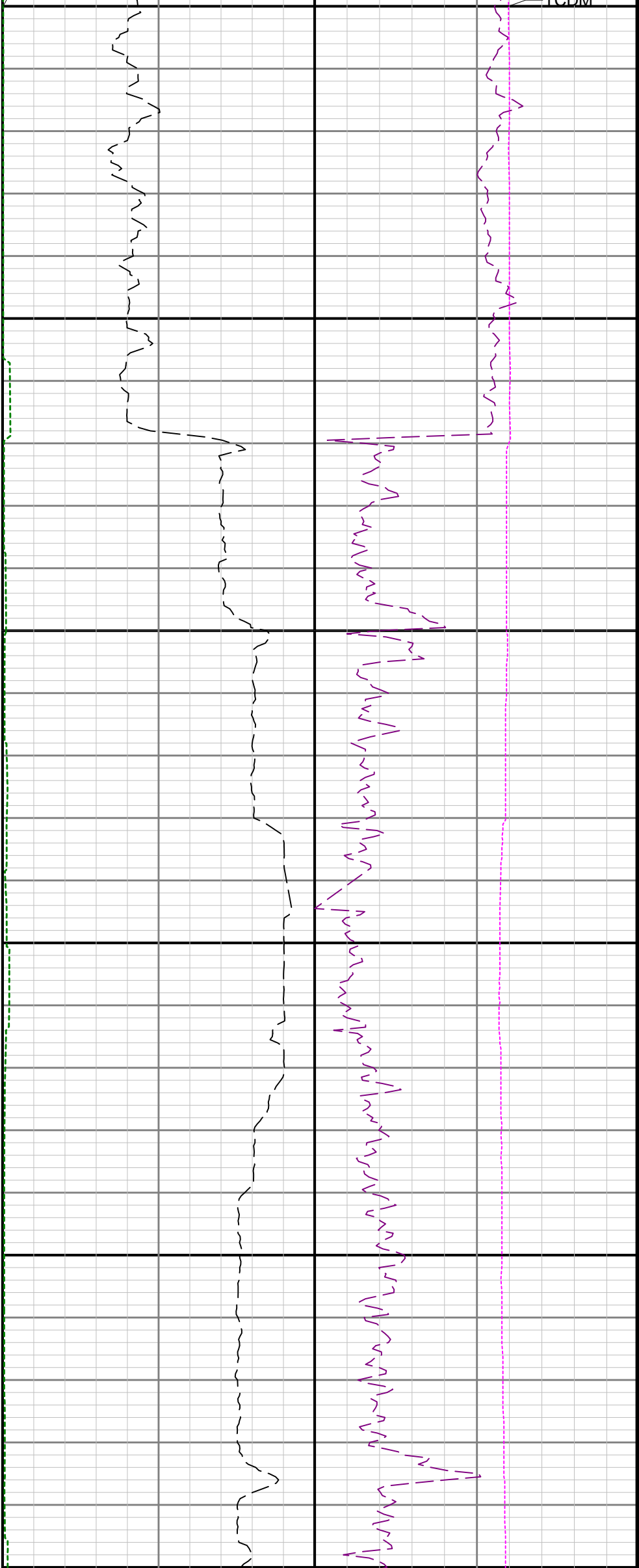
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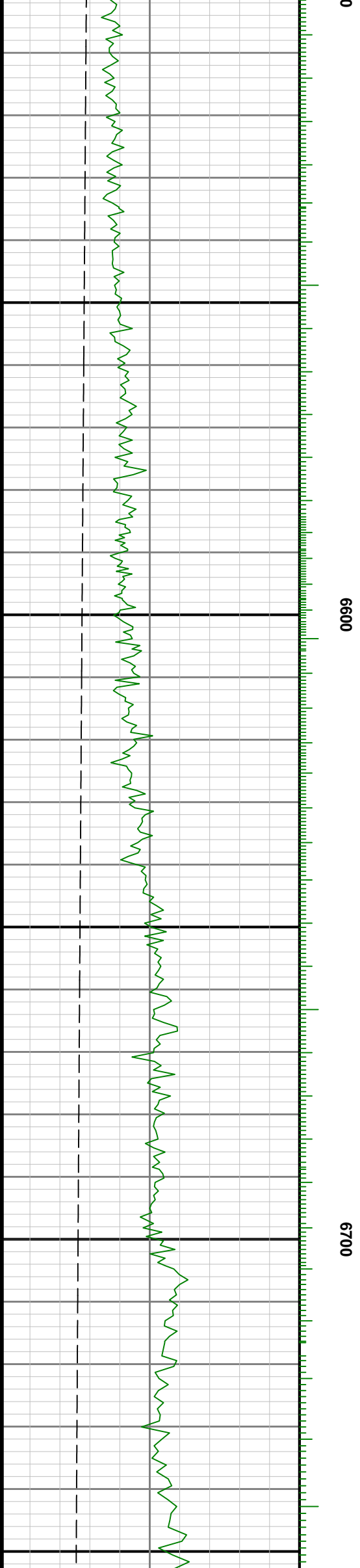
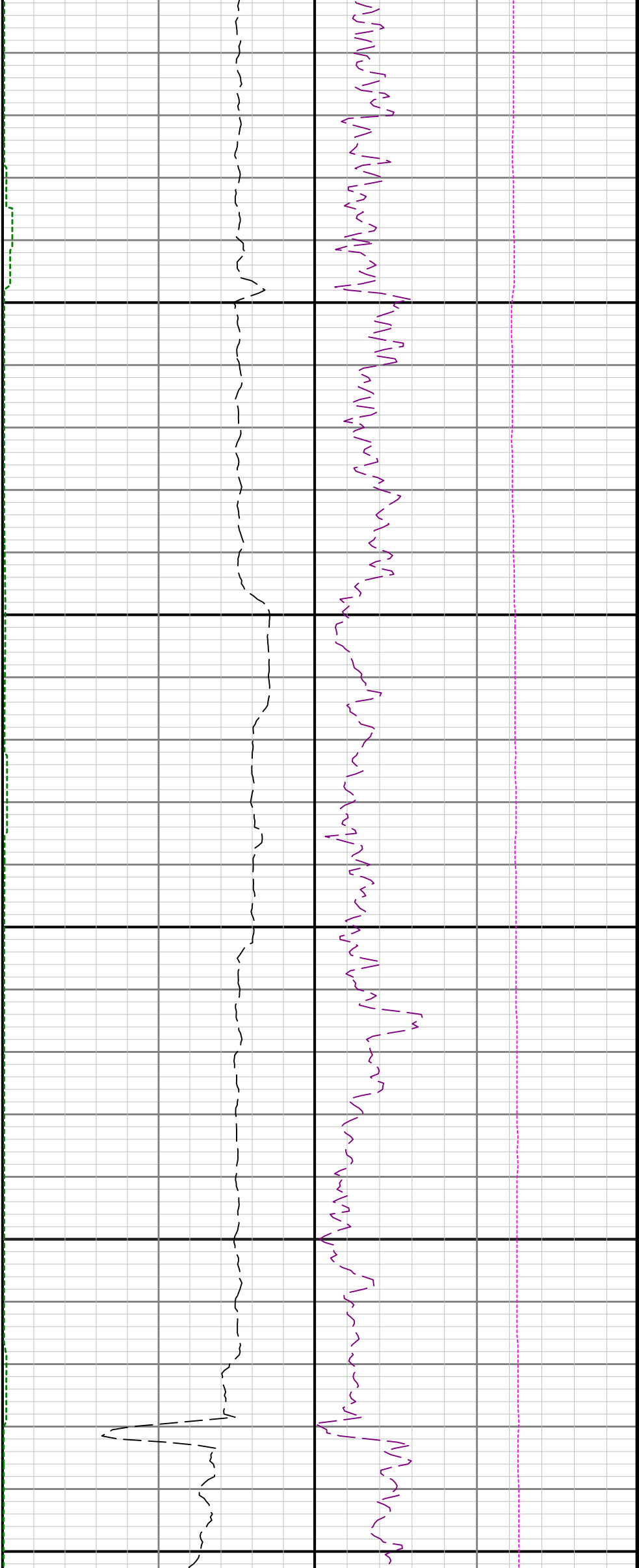


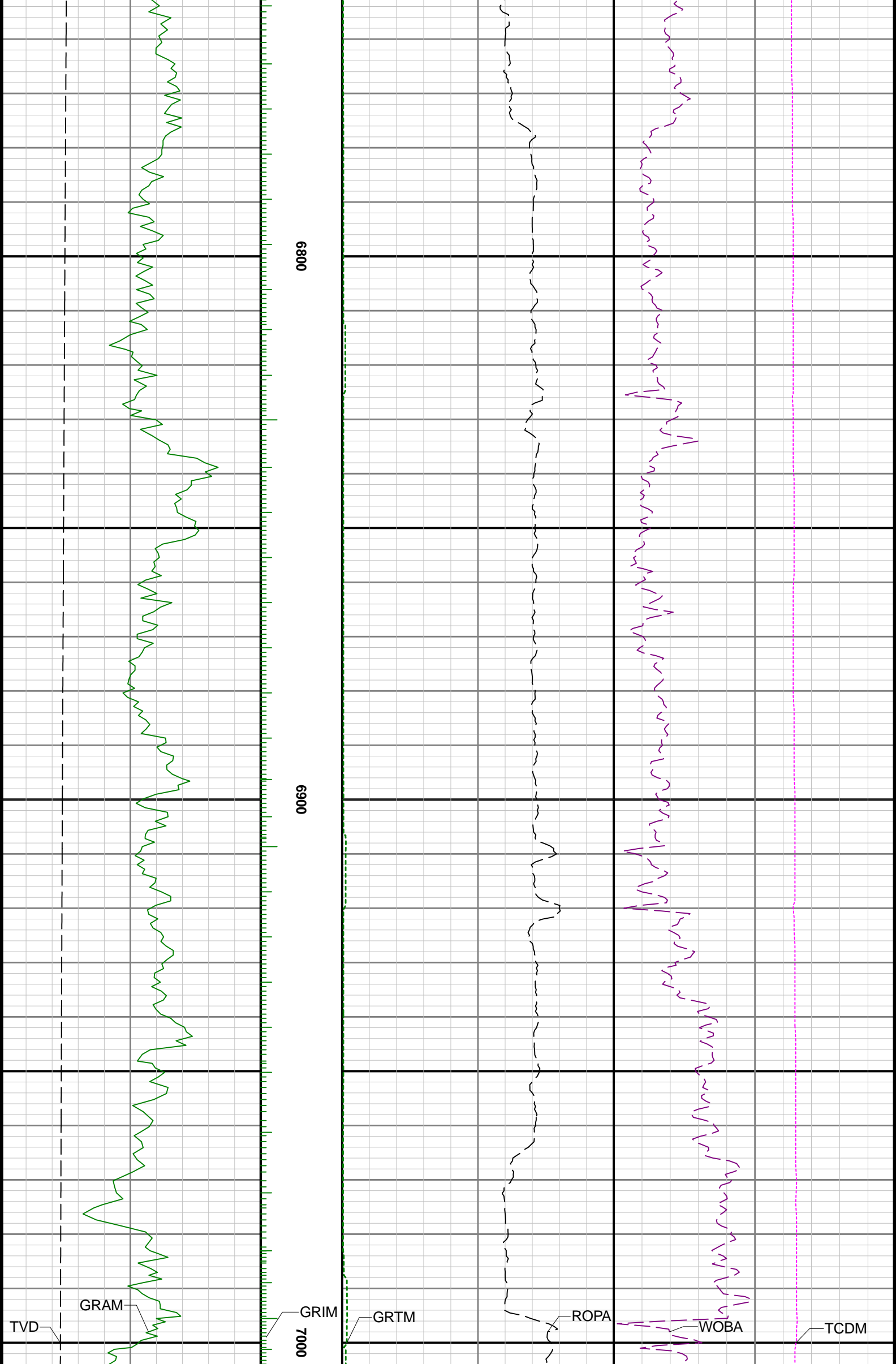


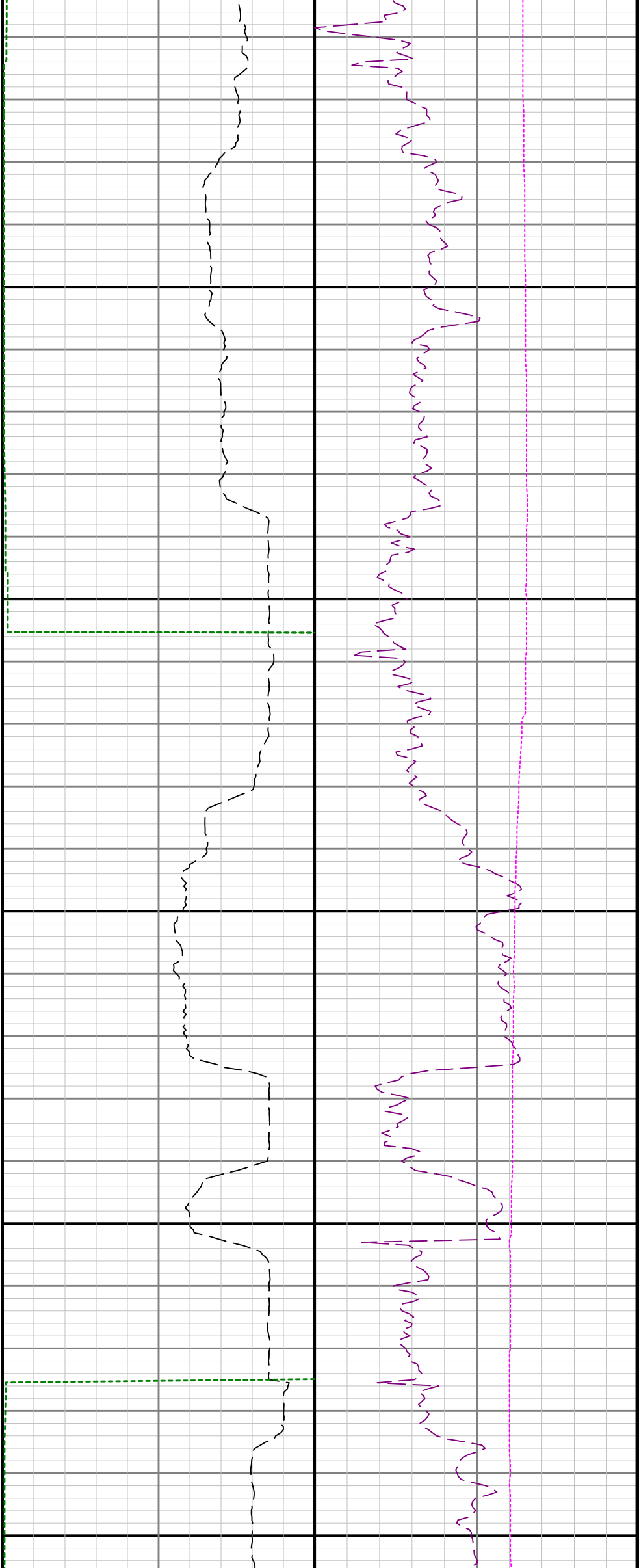










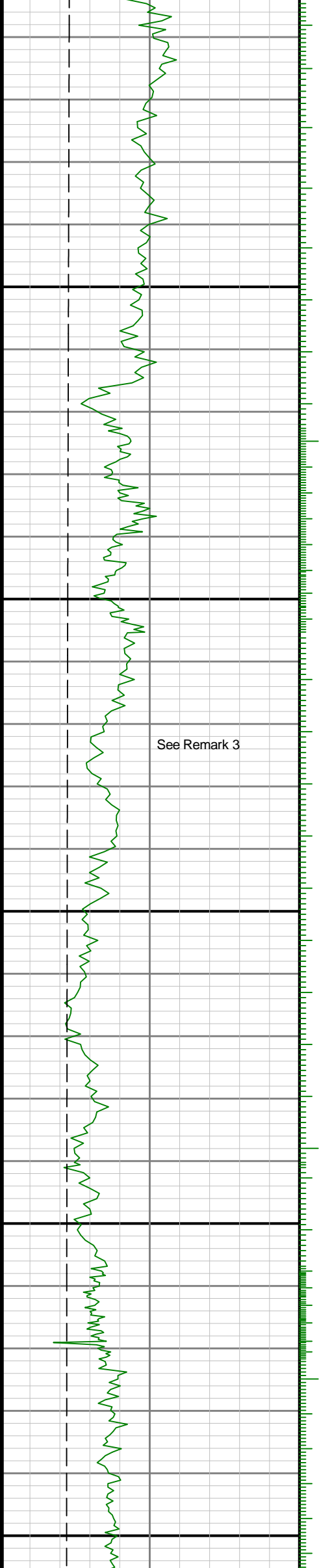


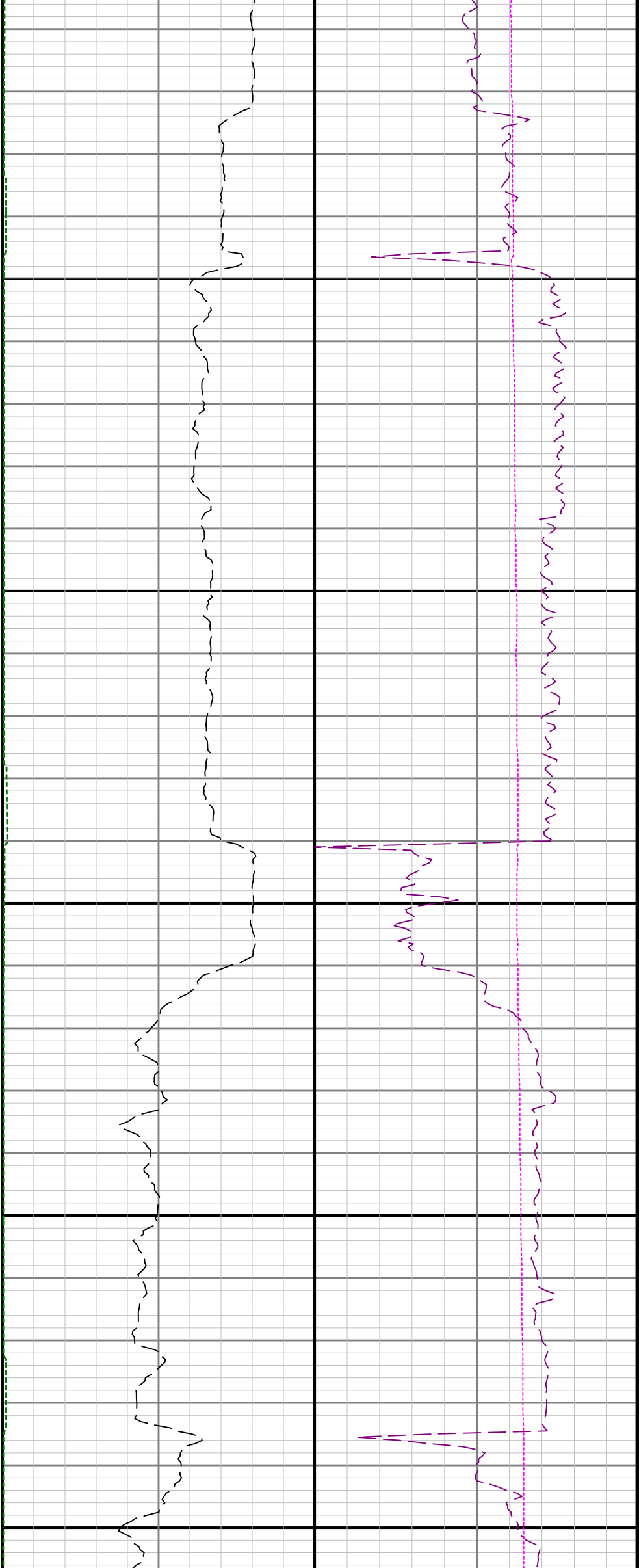
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See Remark 3

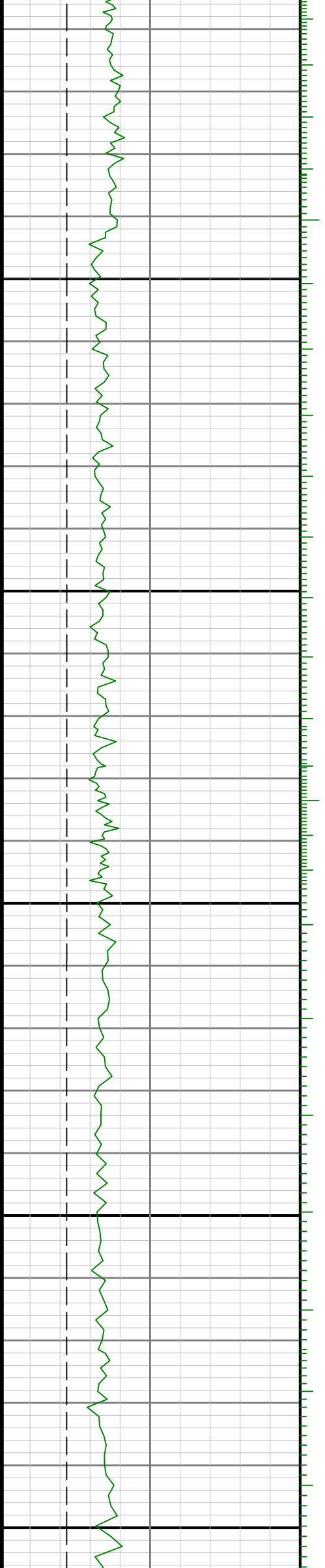




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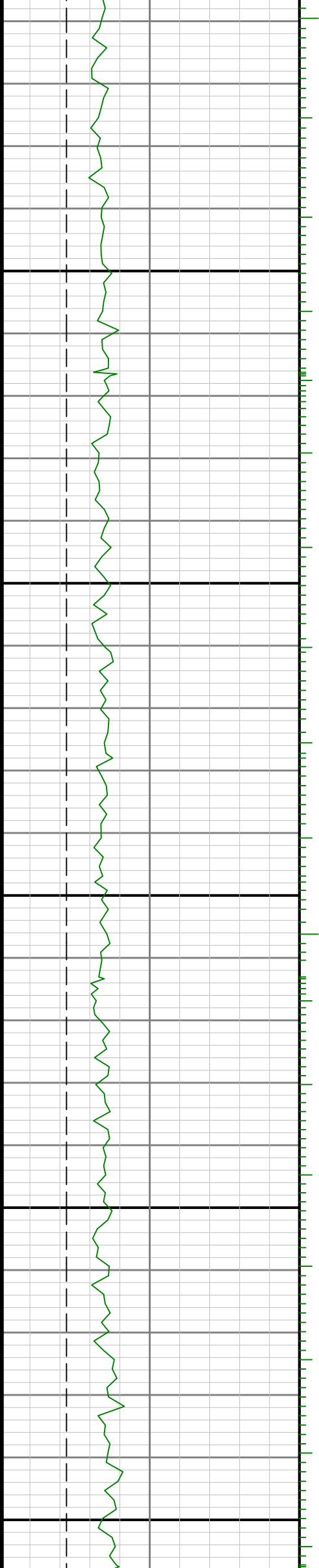


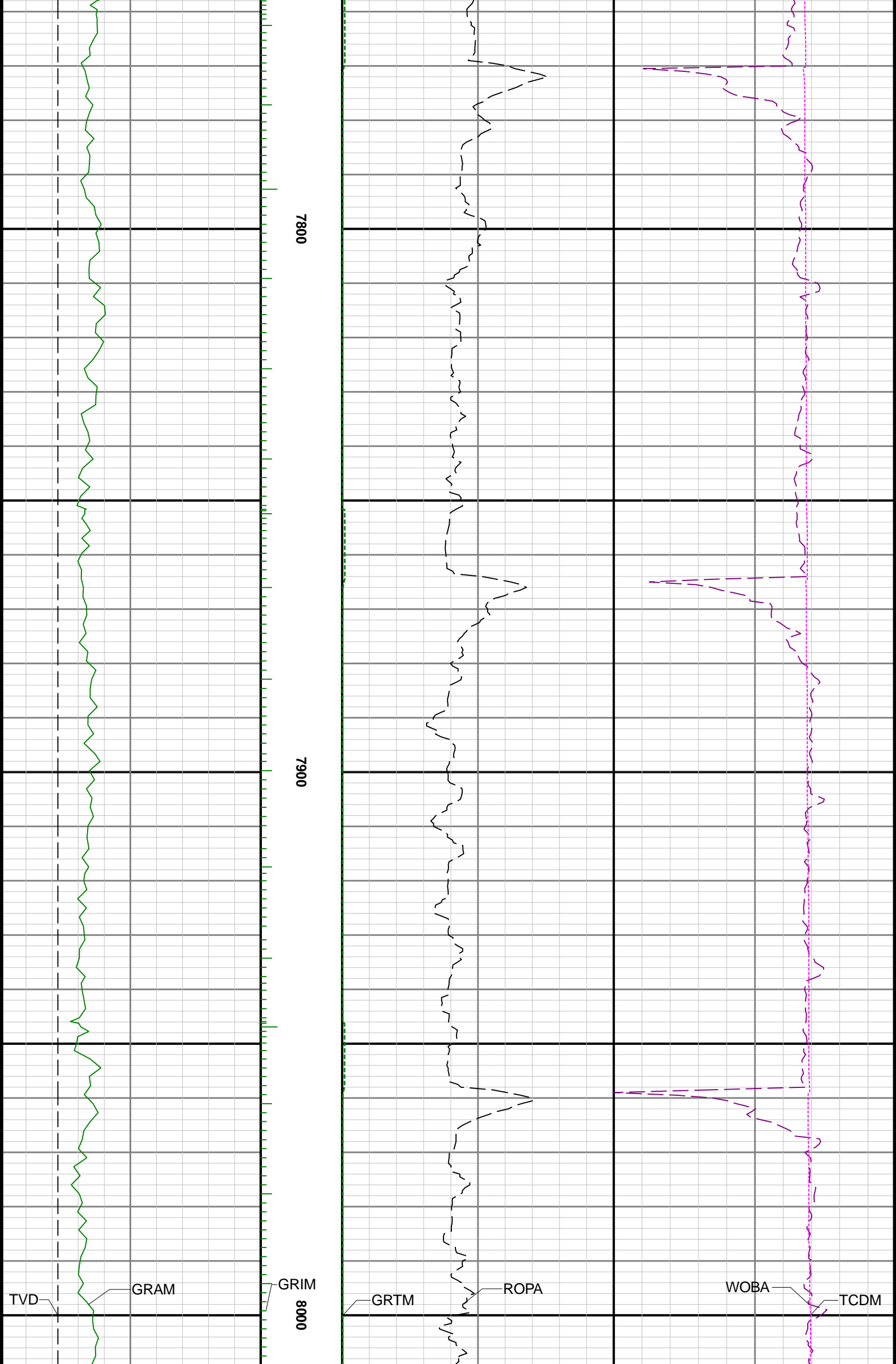


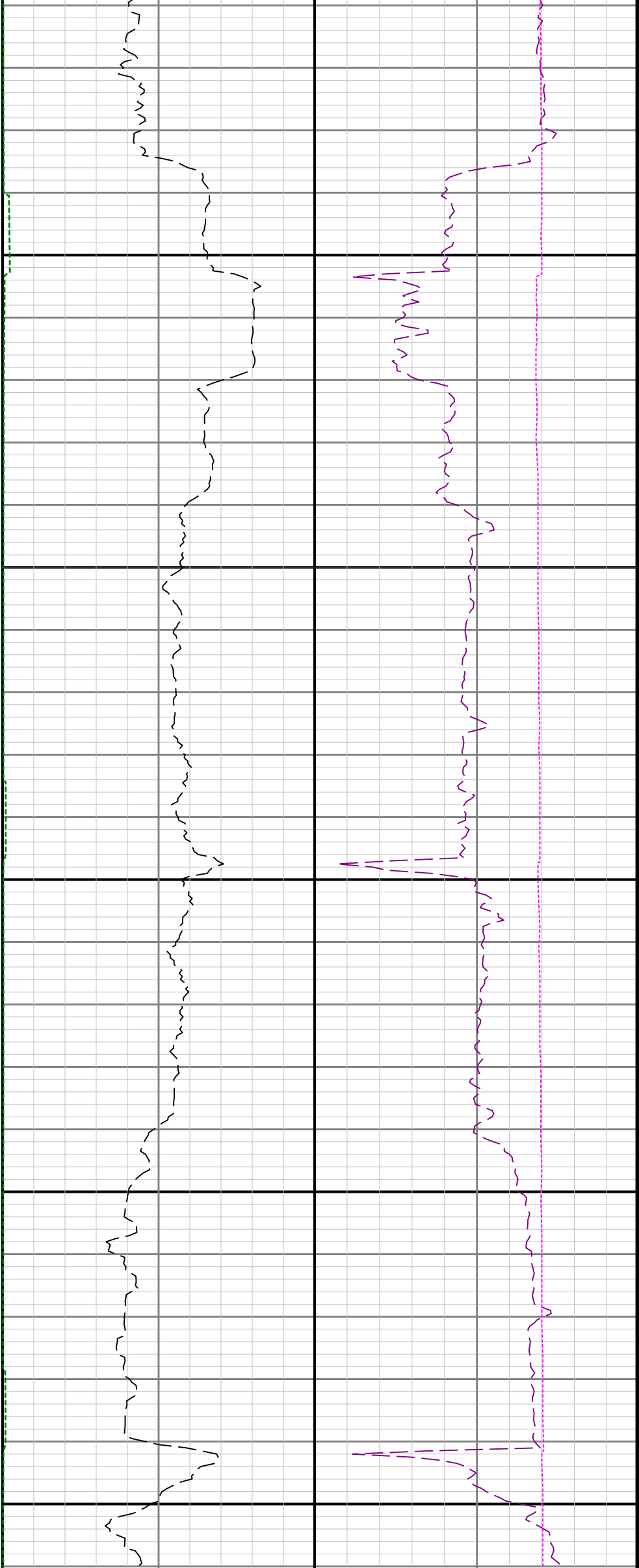


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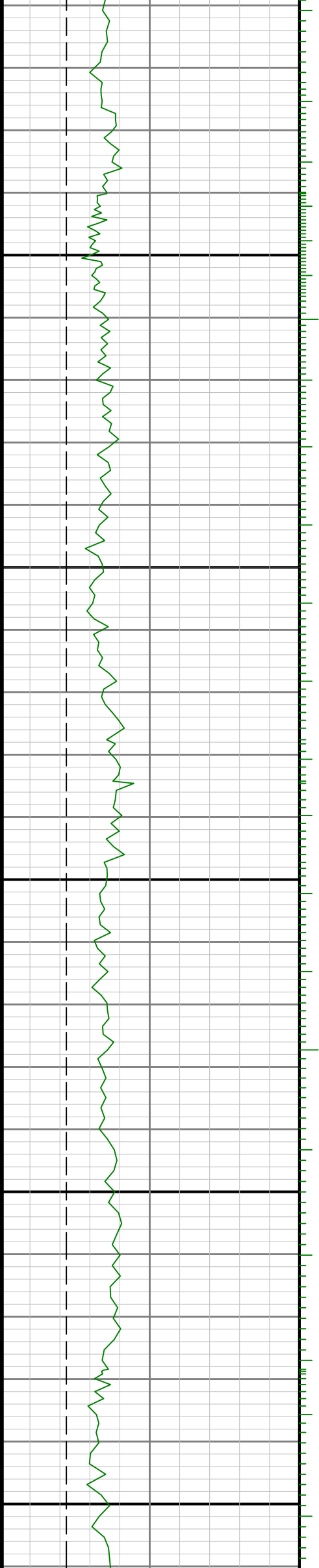


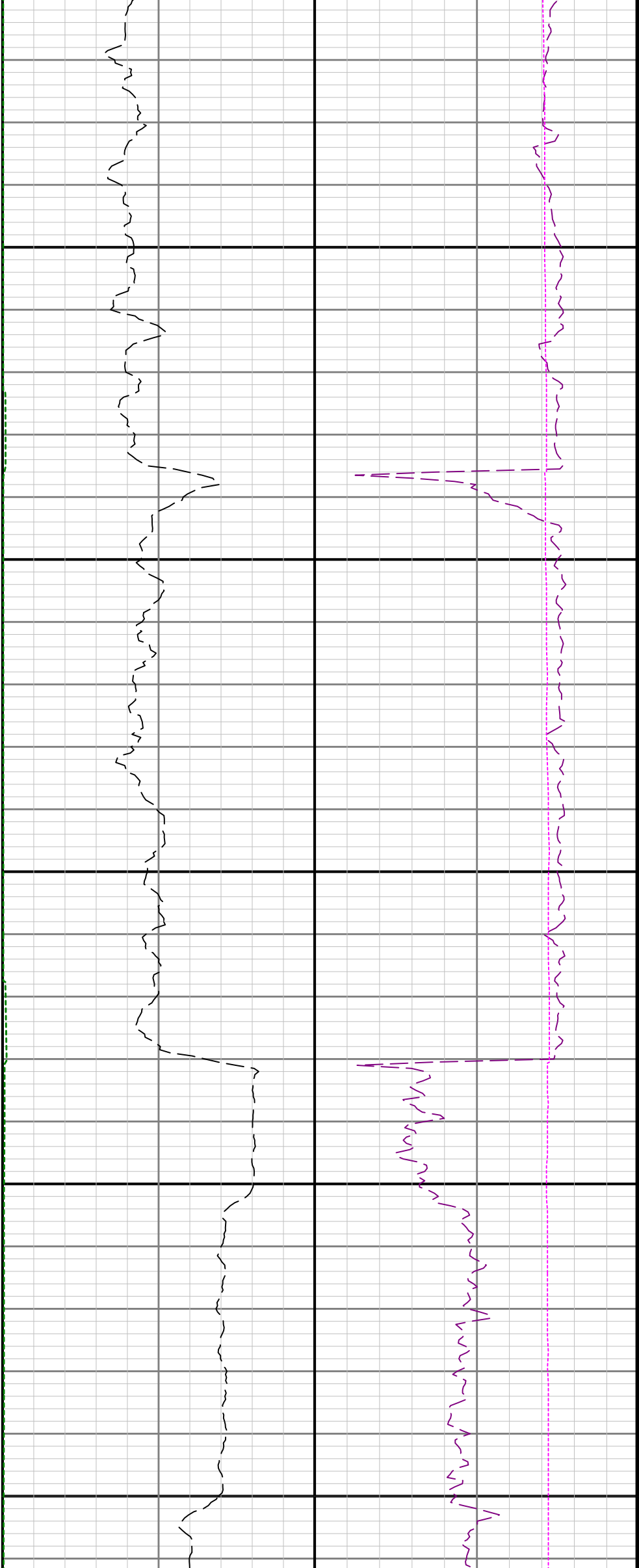




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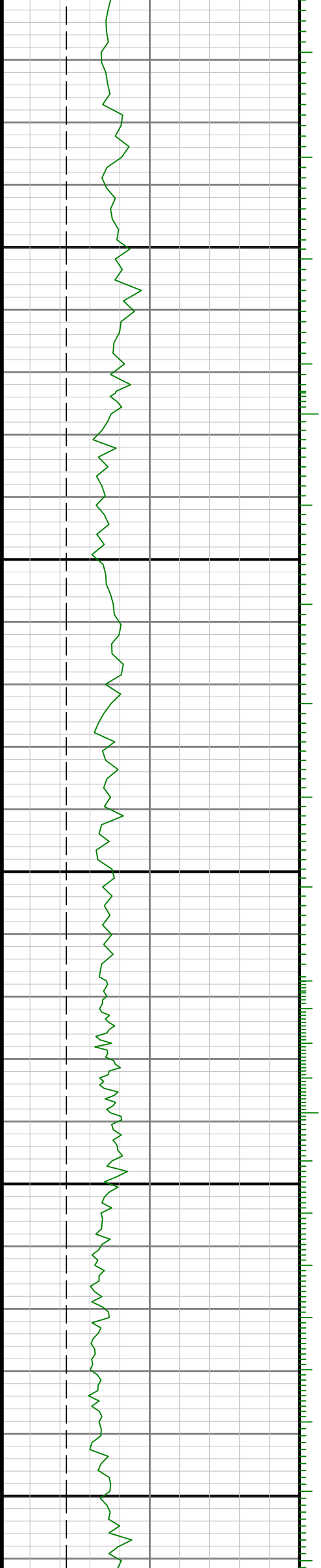


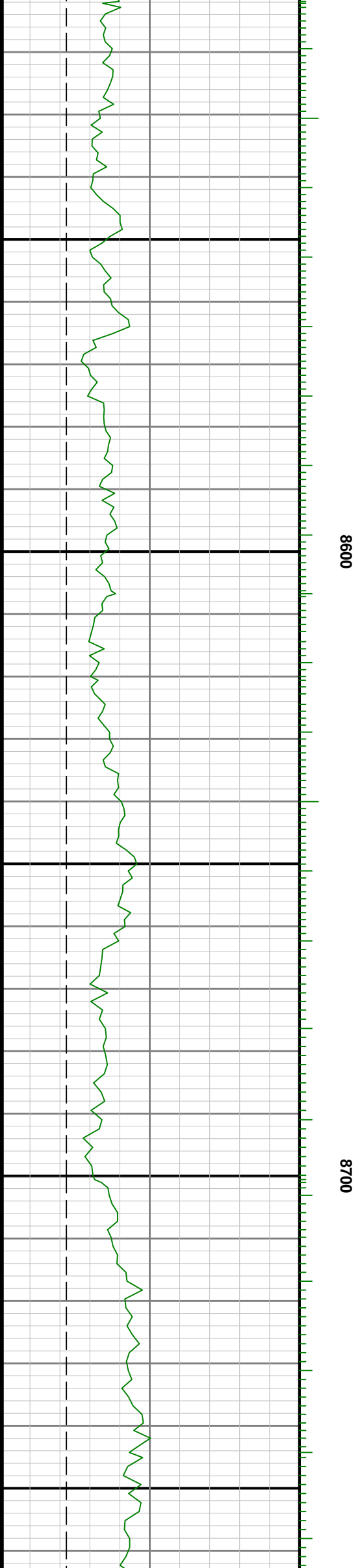
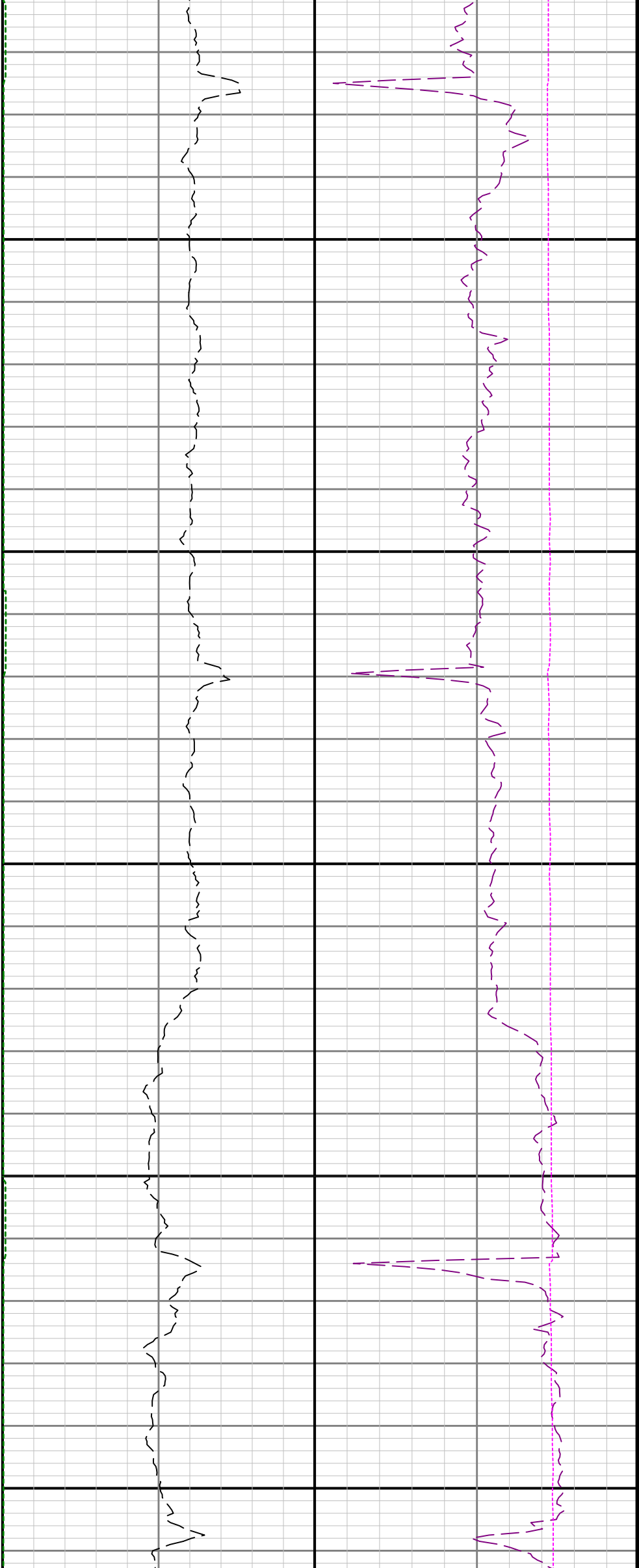


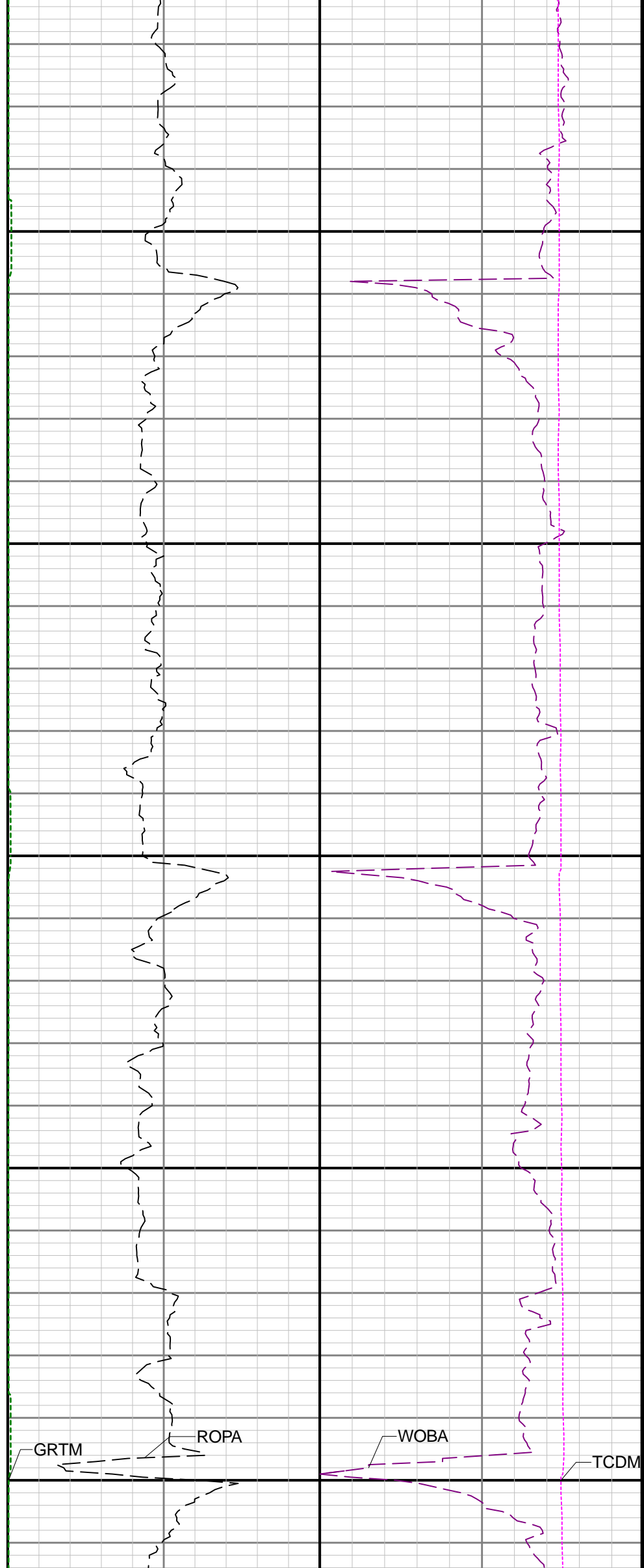
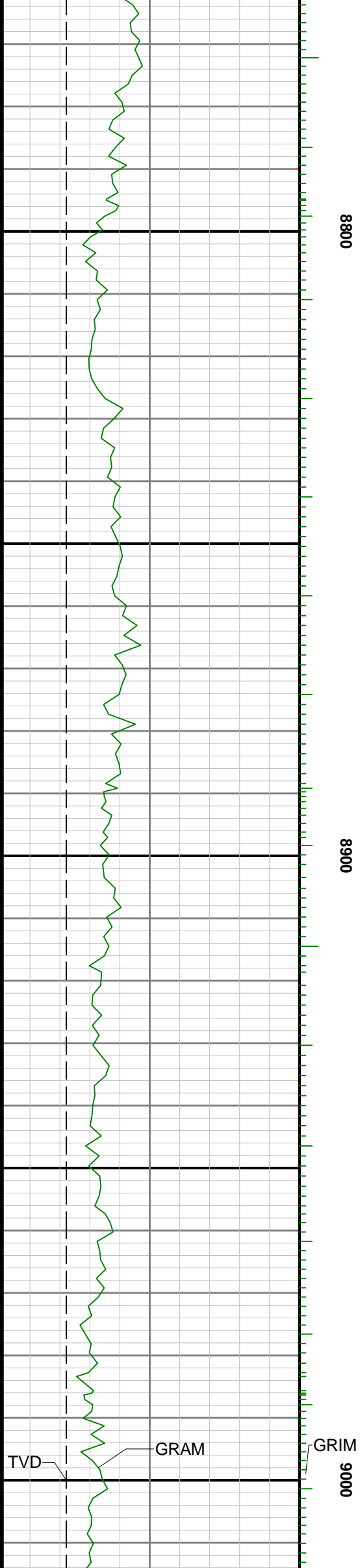
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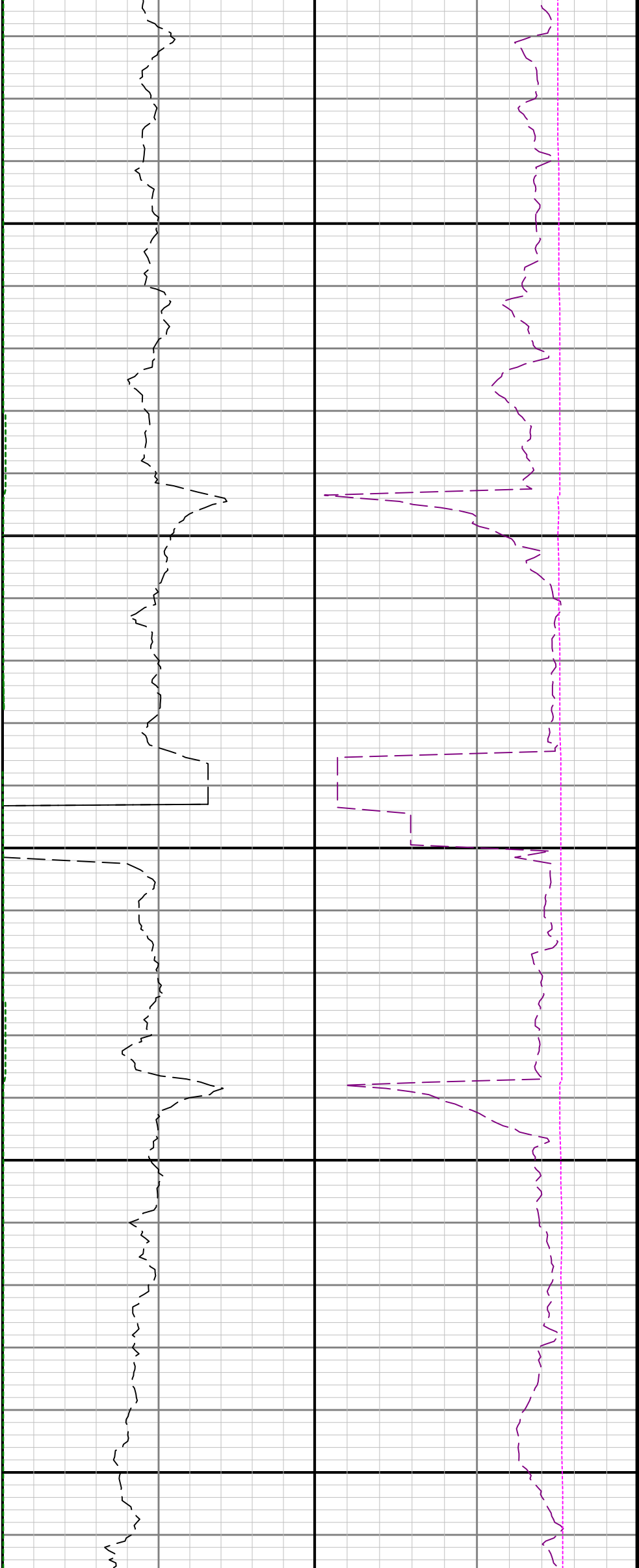
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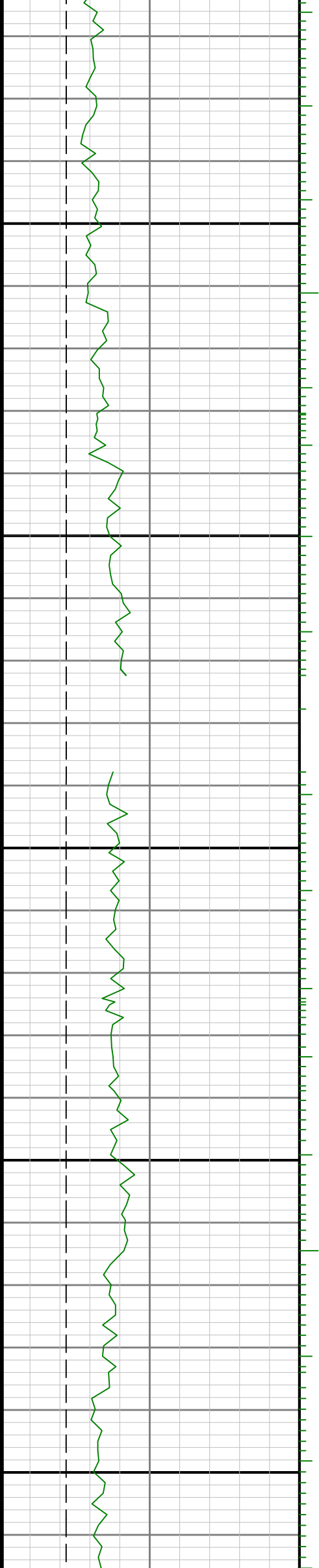


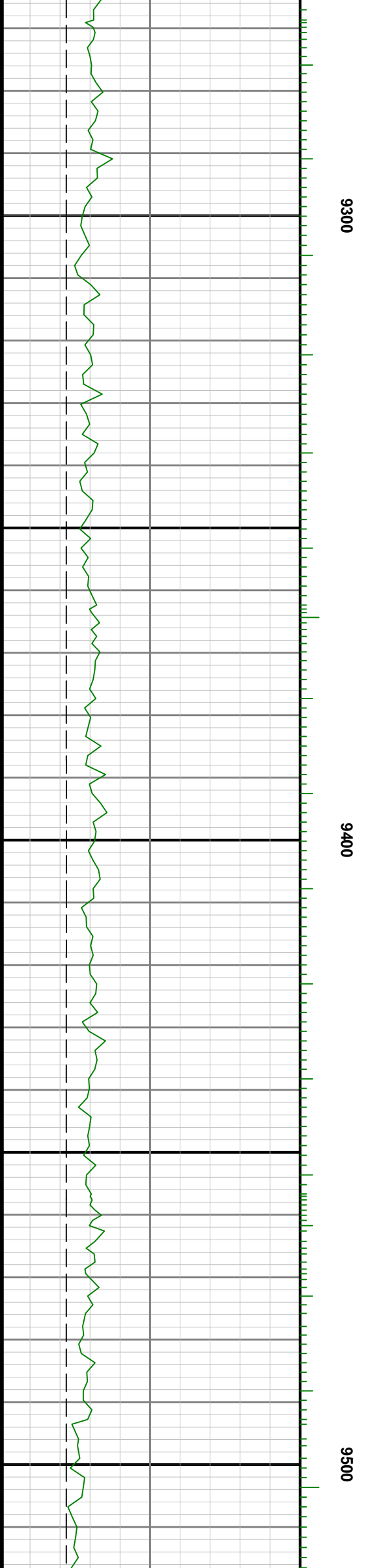
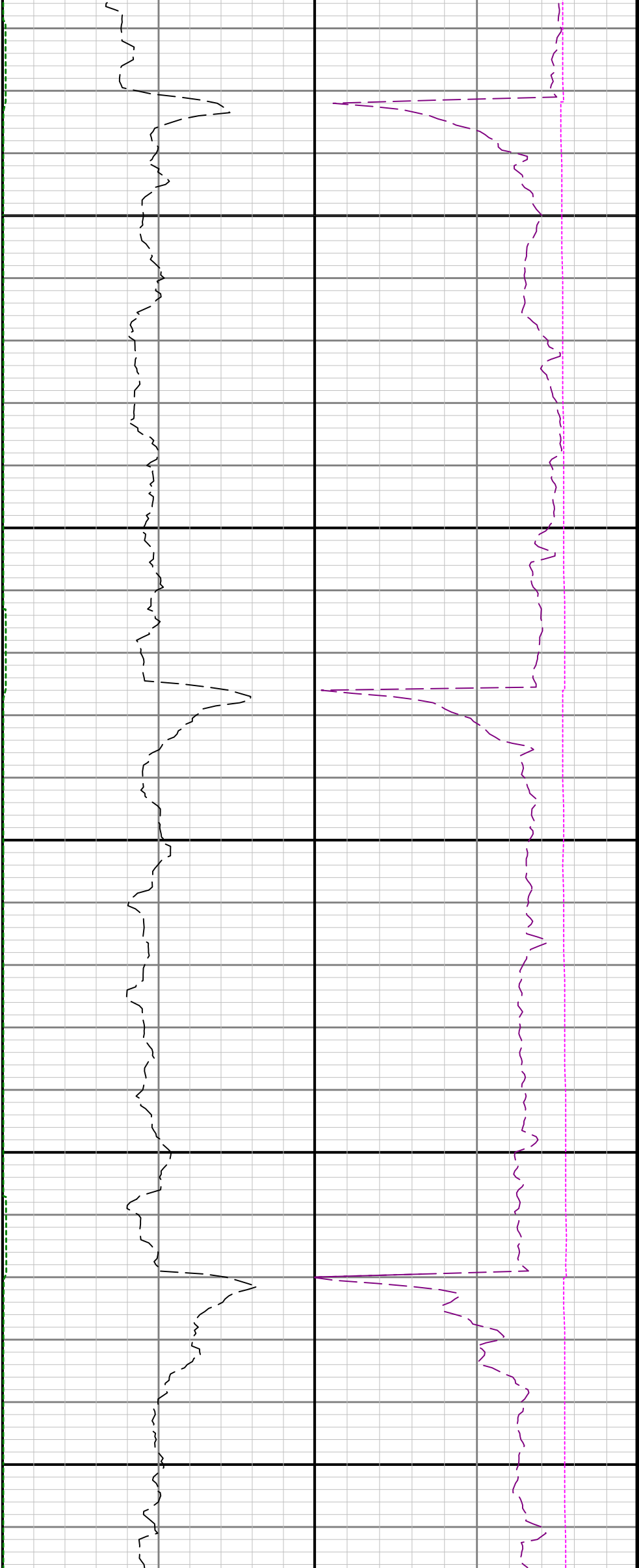




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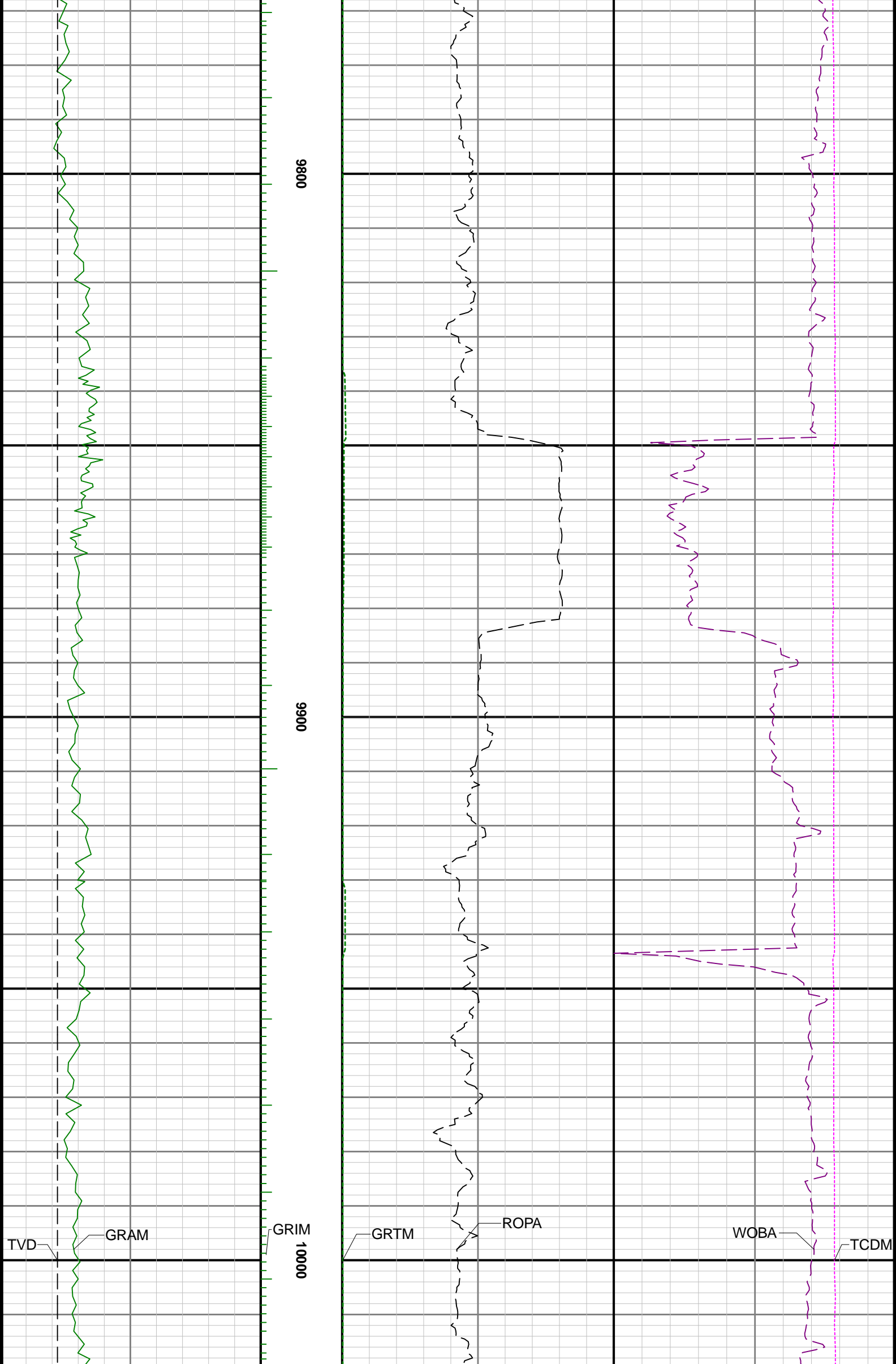
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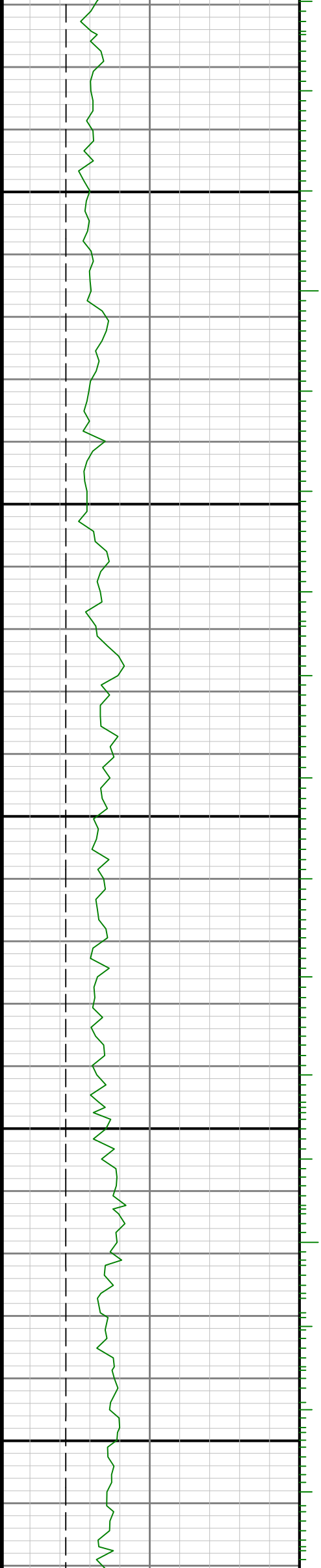


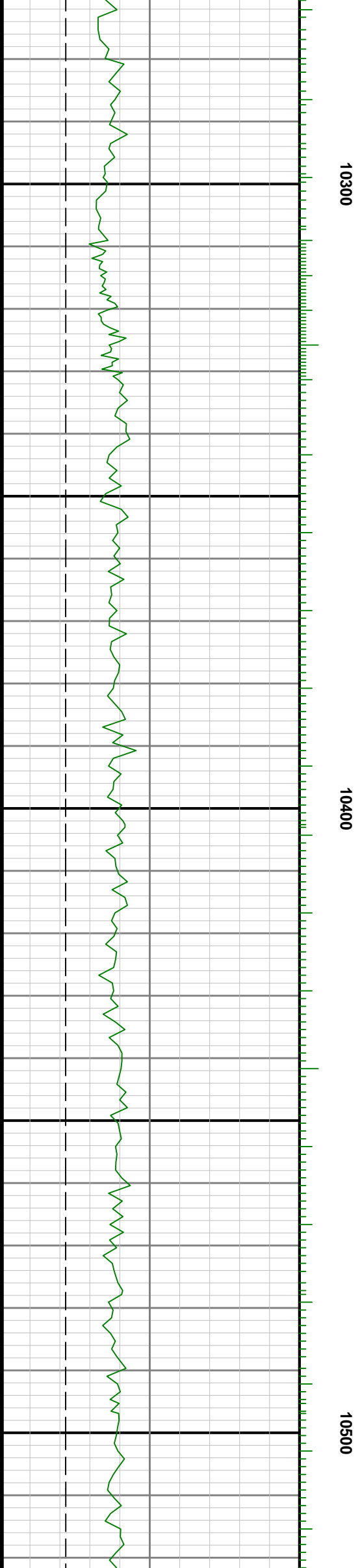


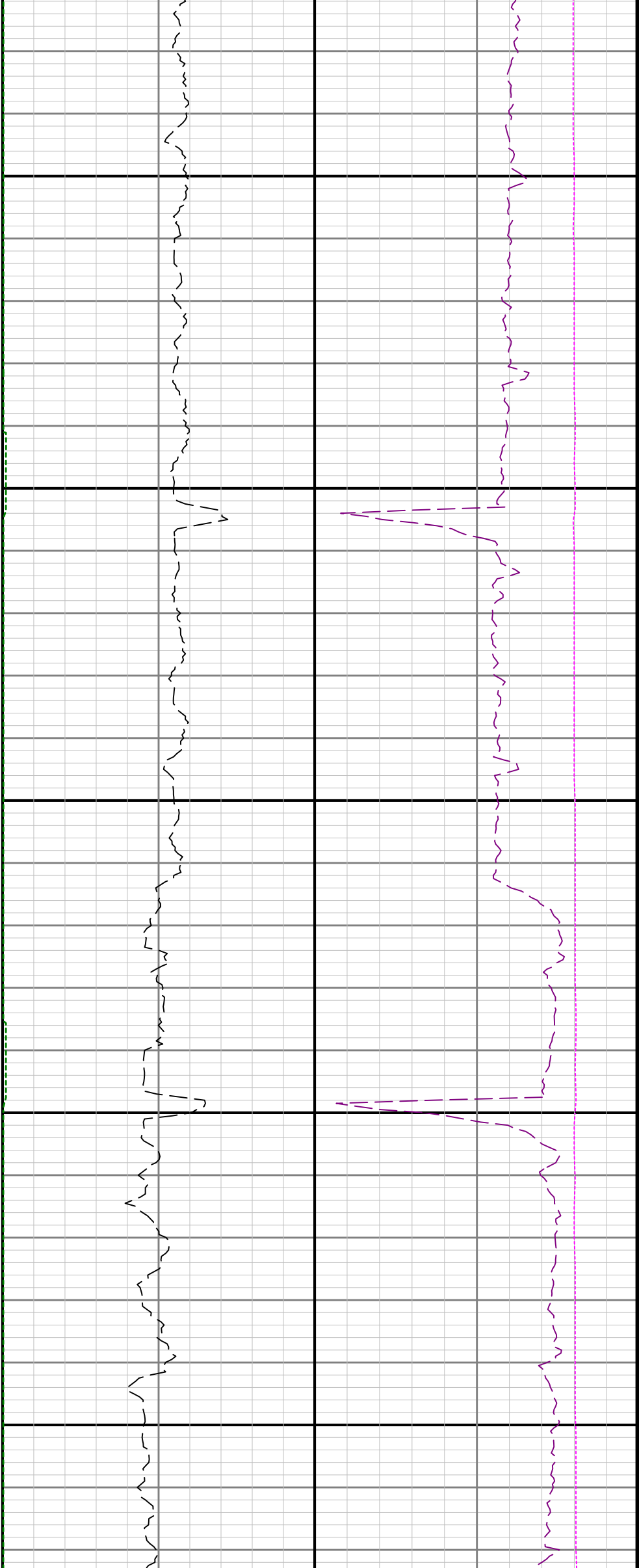


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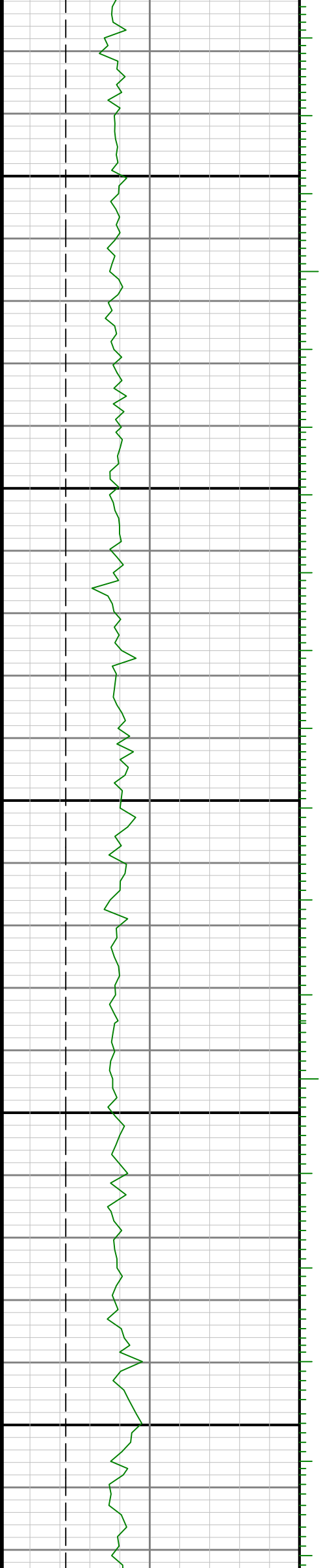


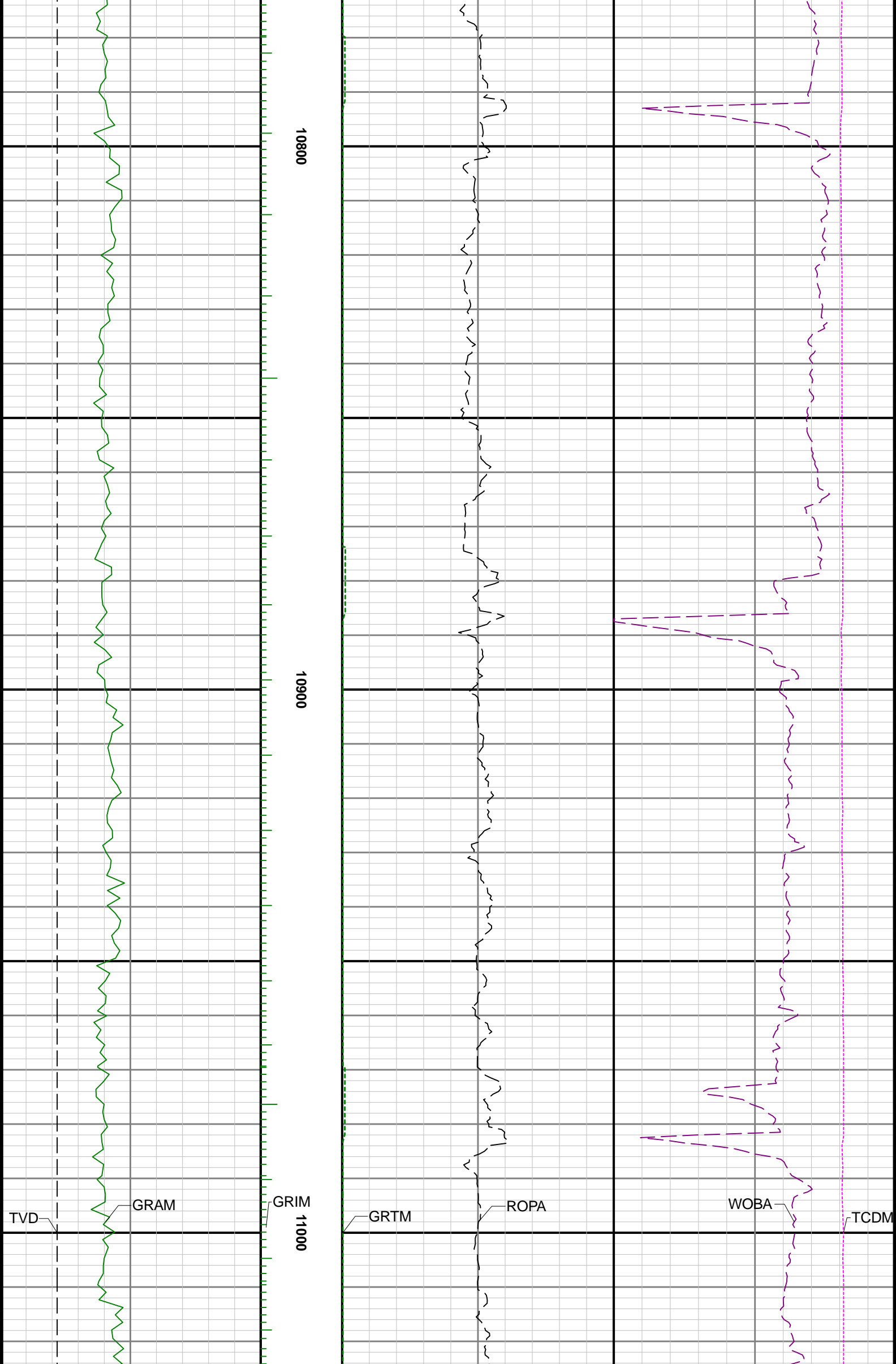


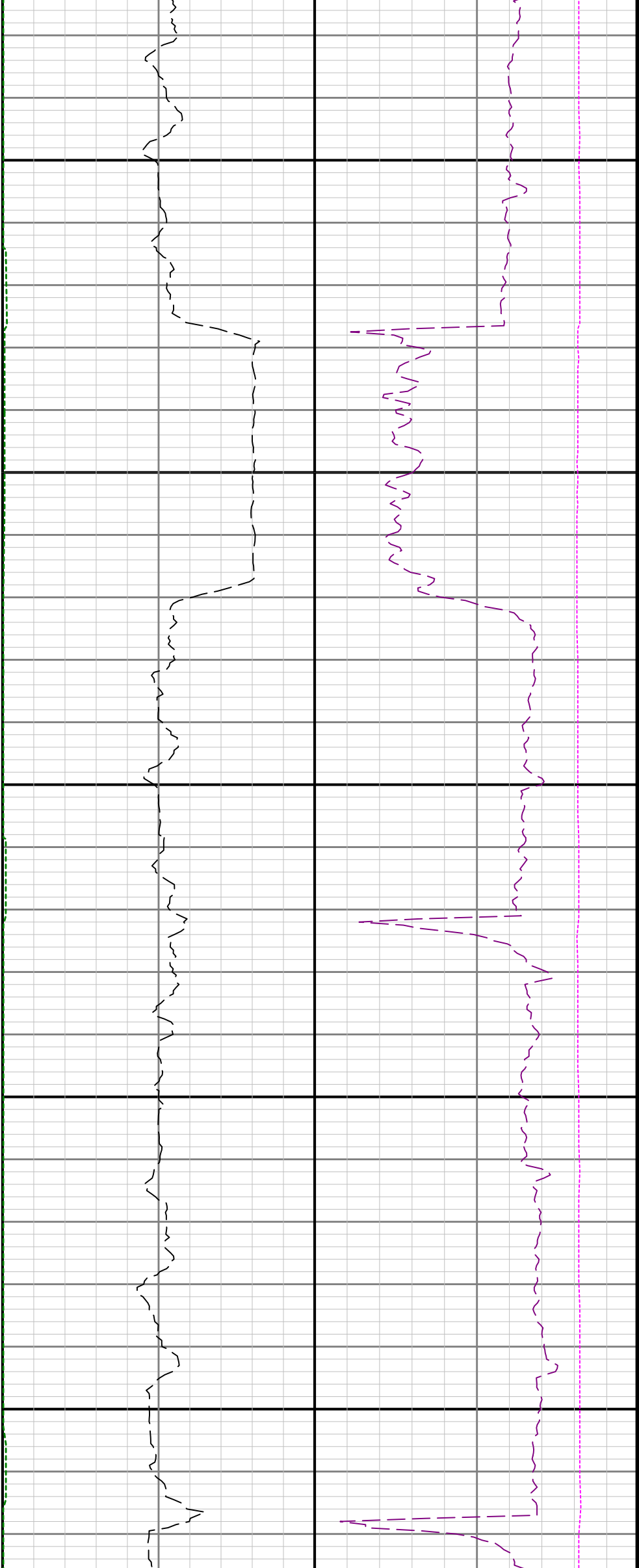


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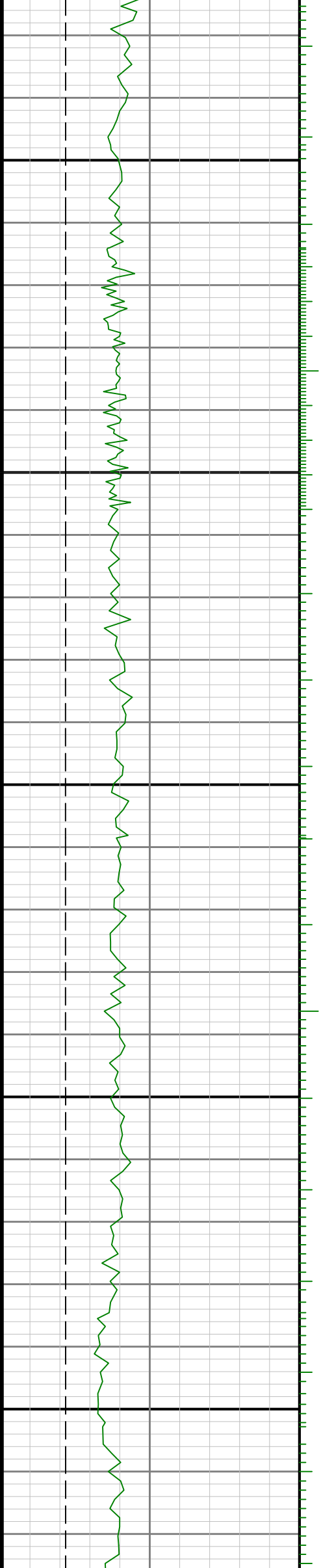


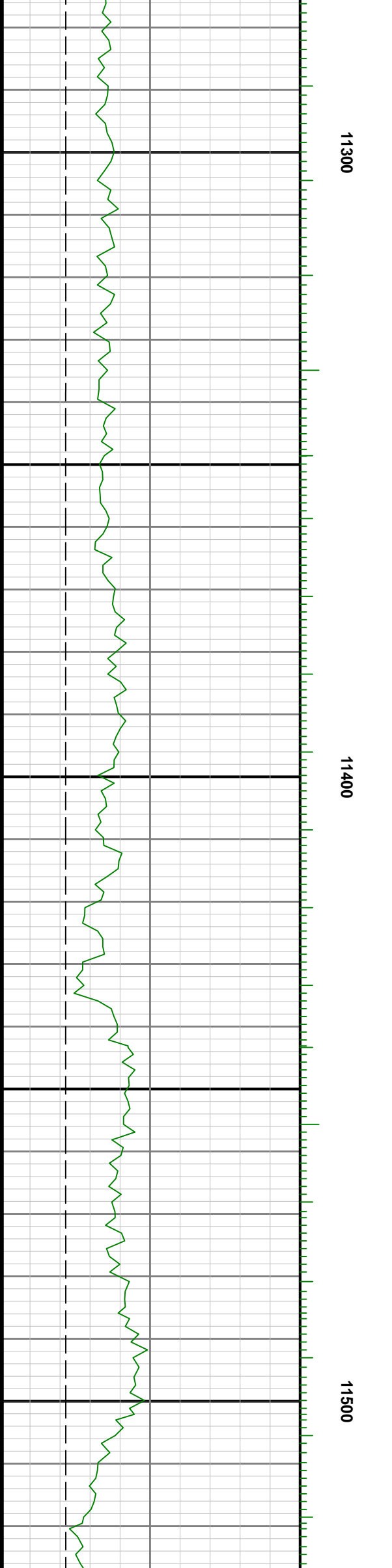
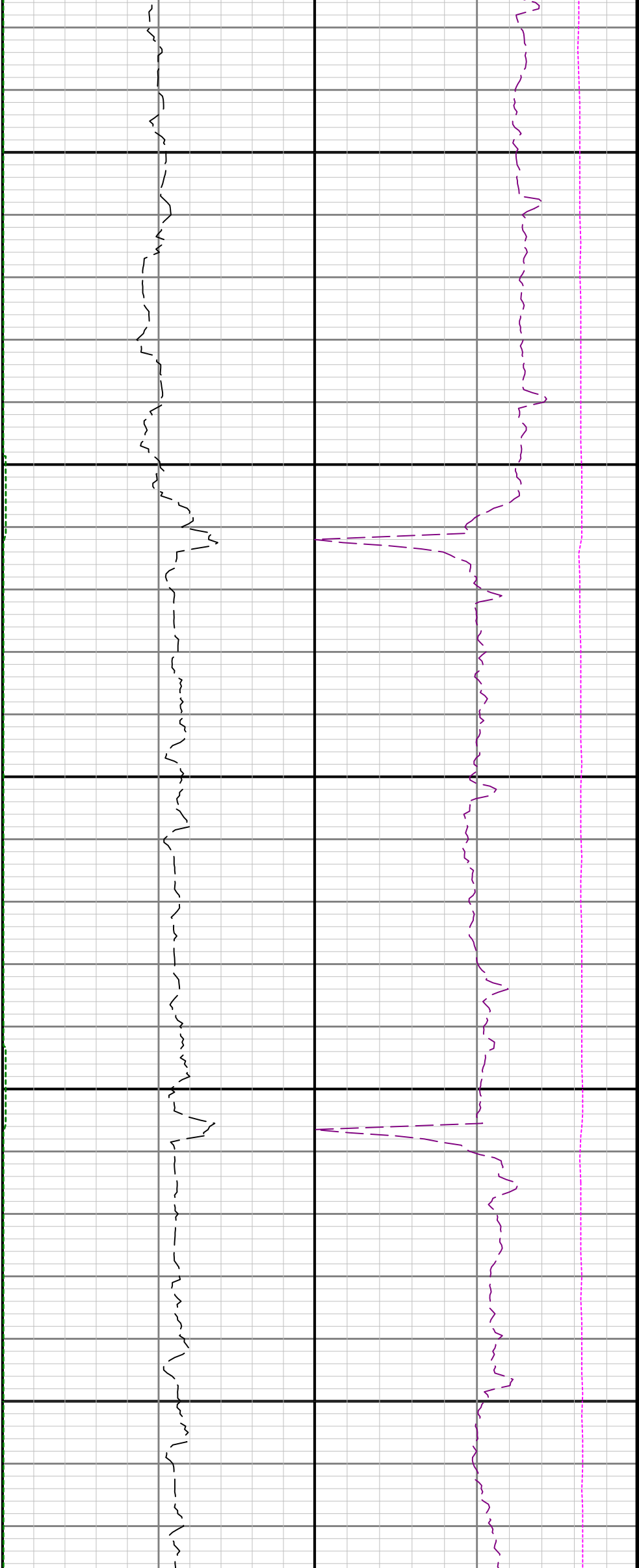


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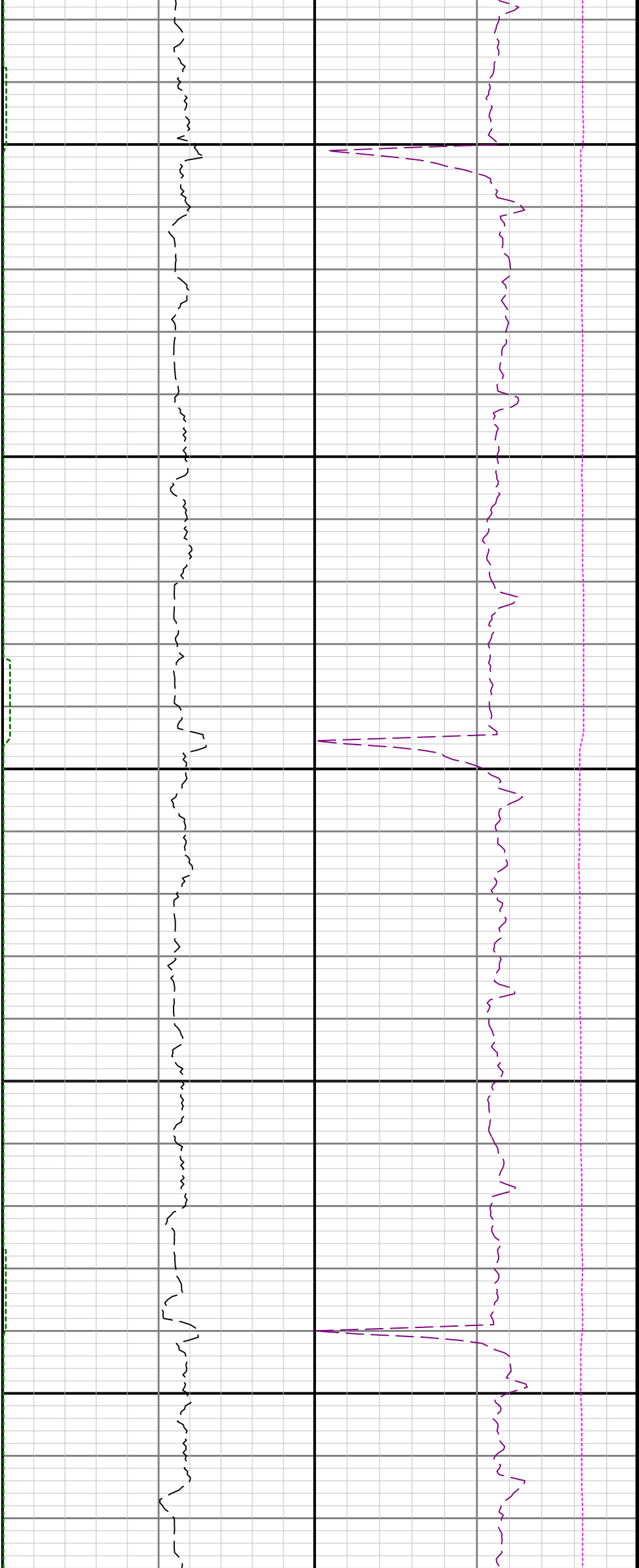
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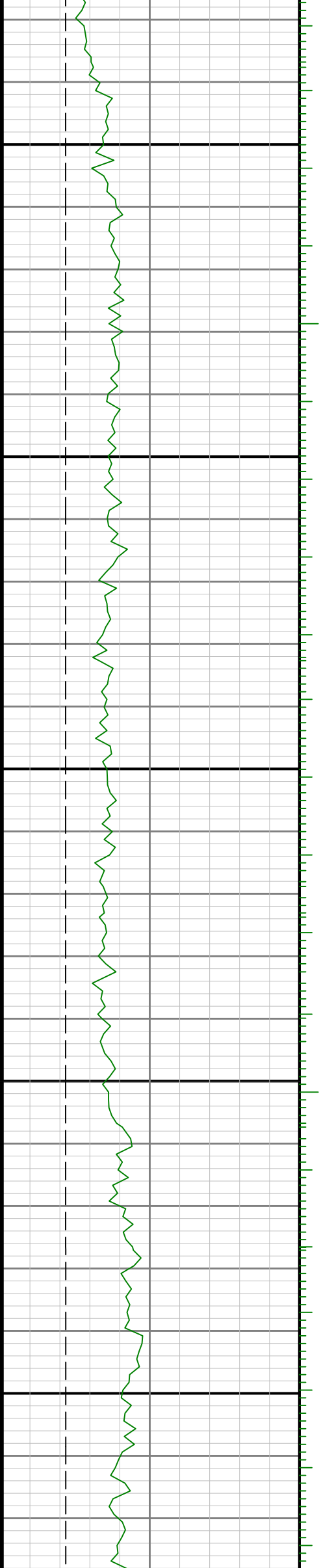




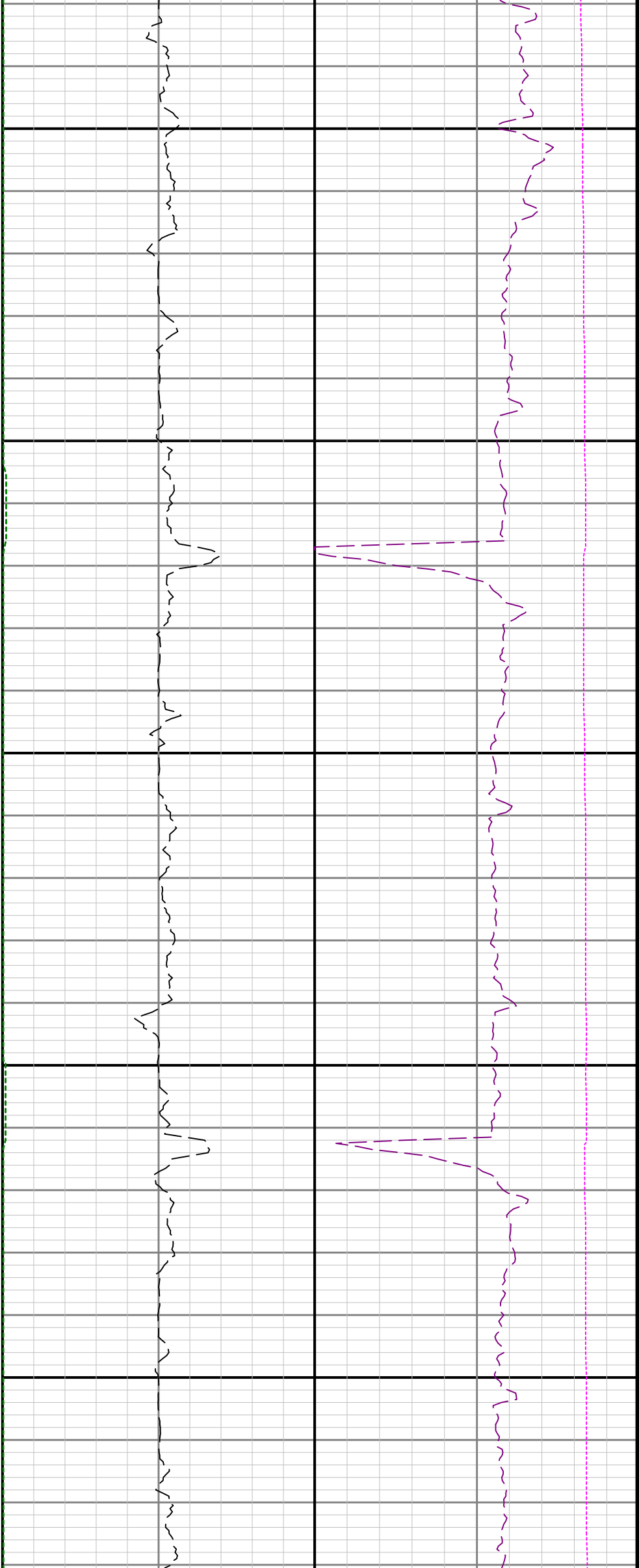


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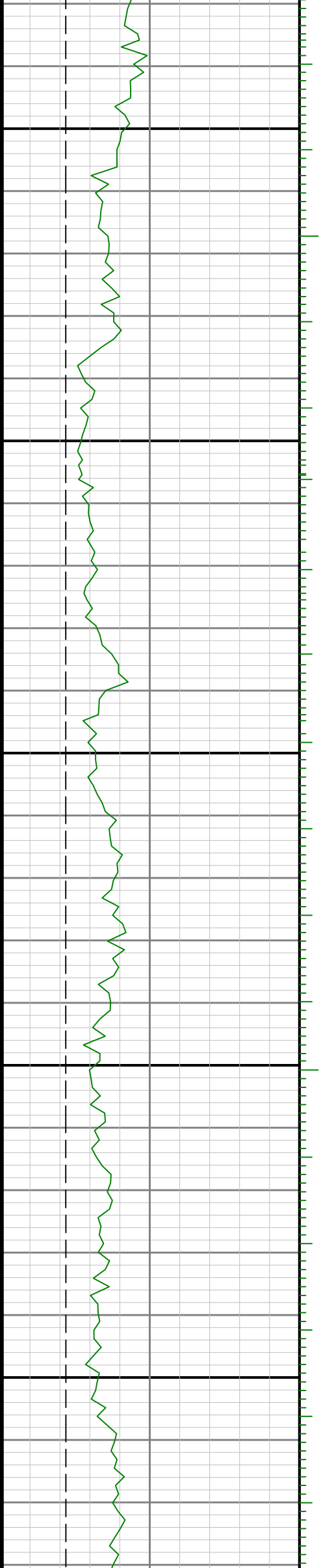


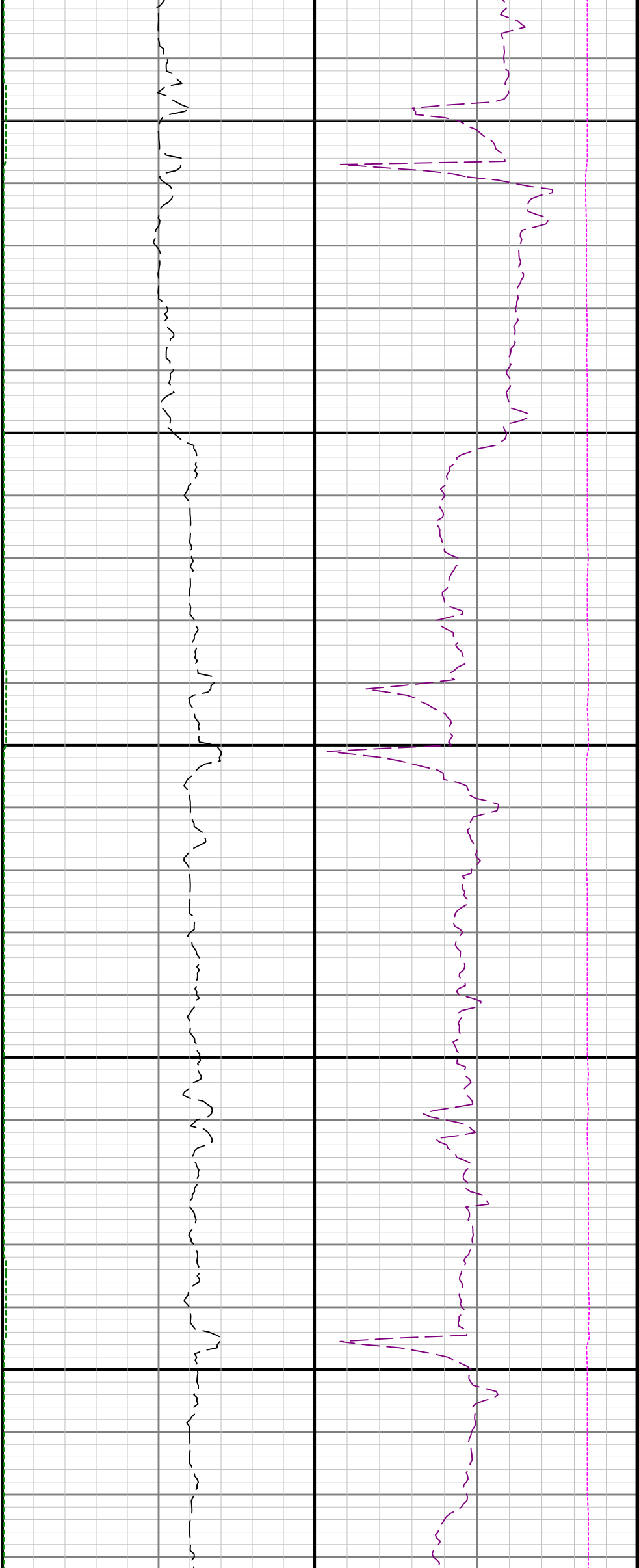




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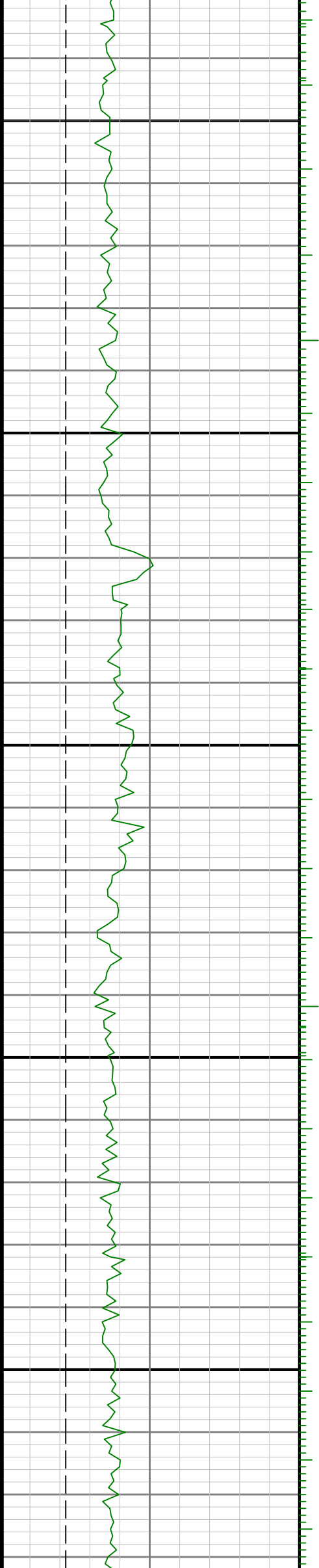


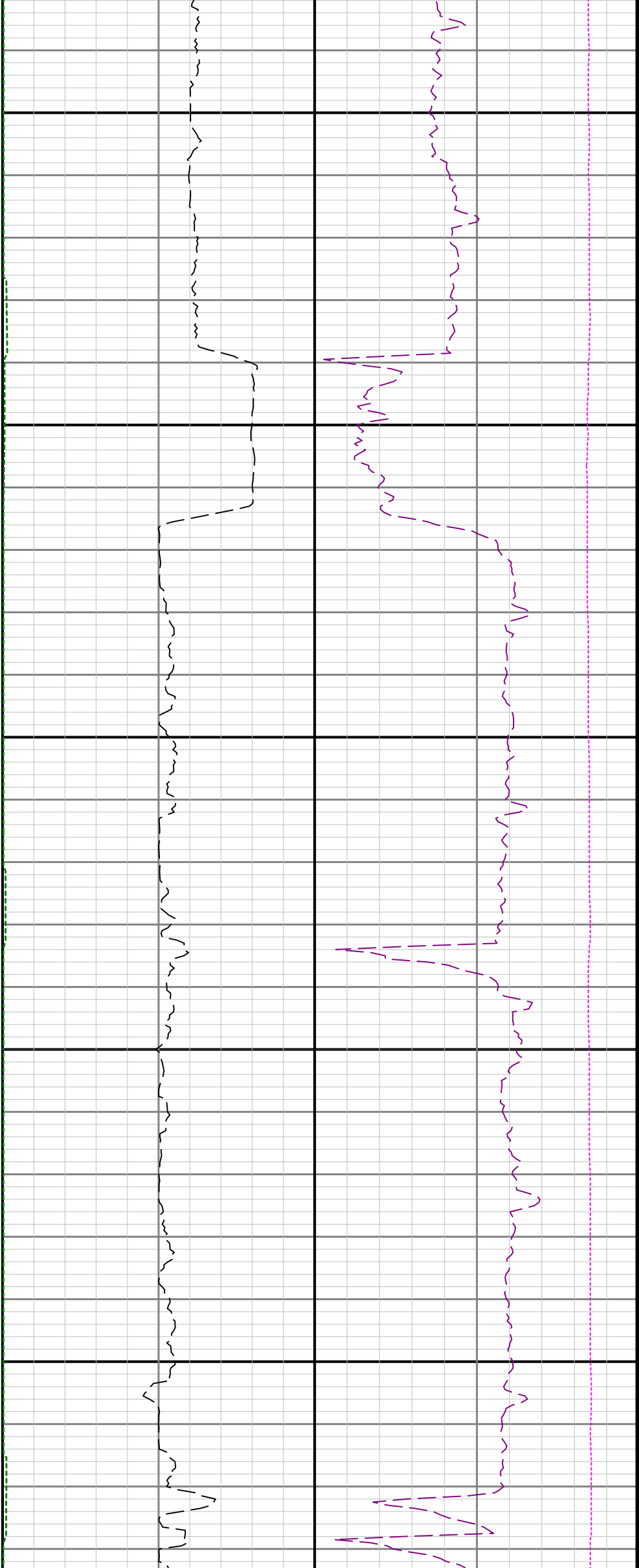


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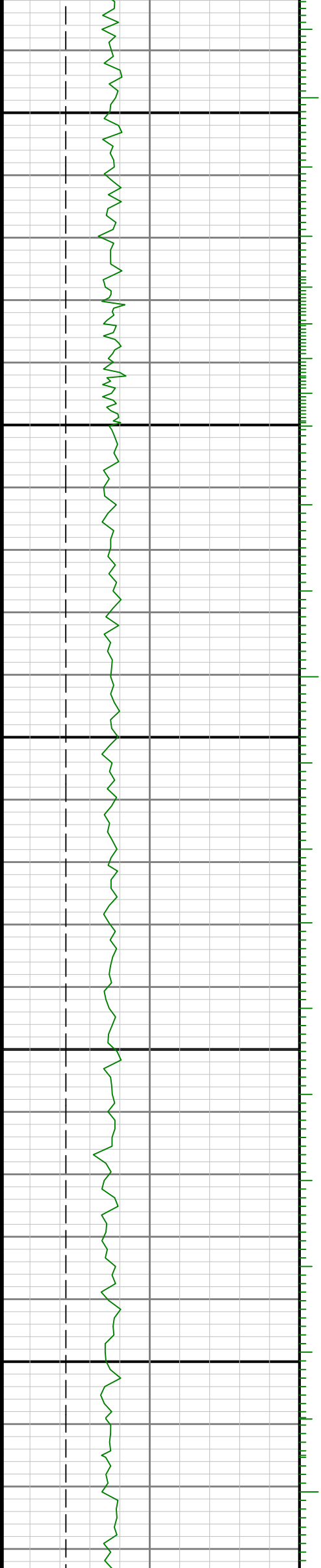
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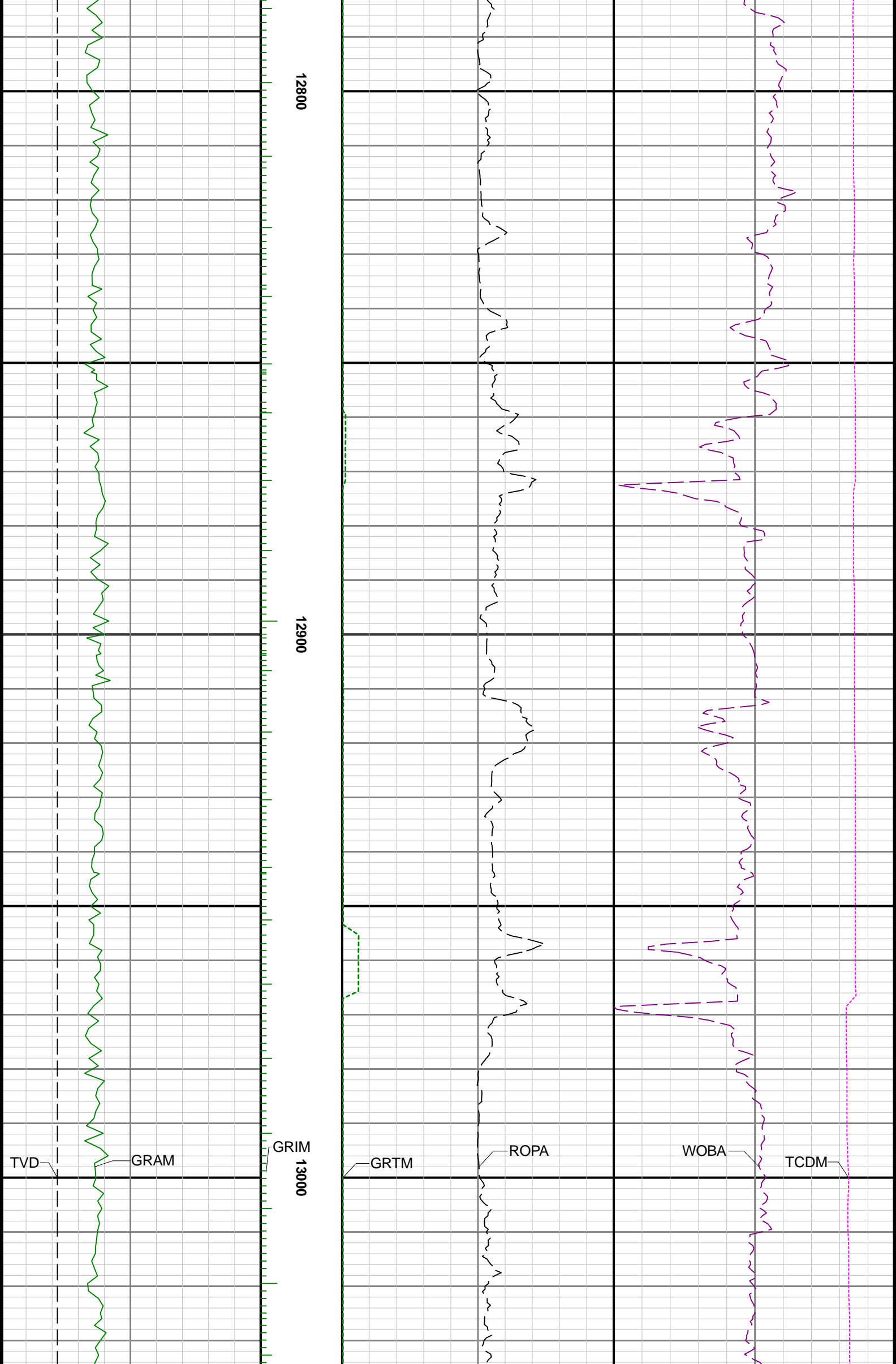


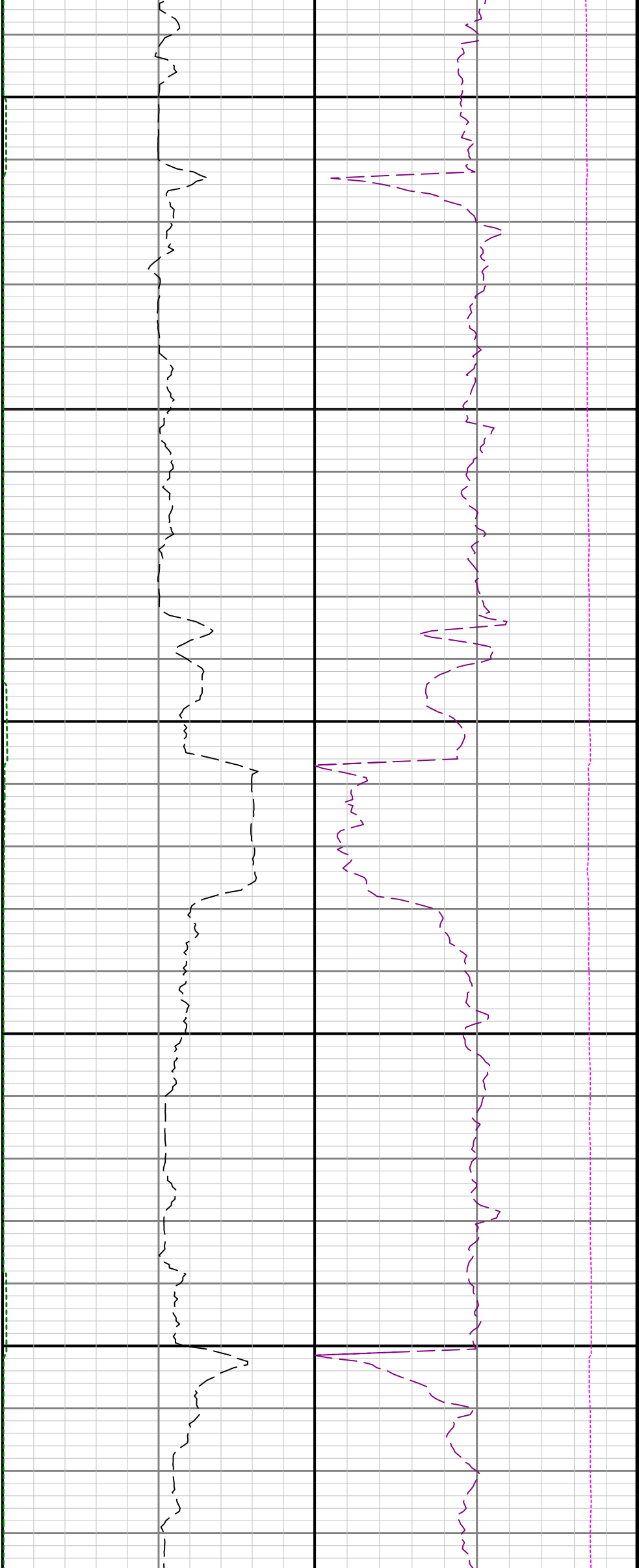


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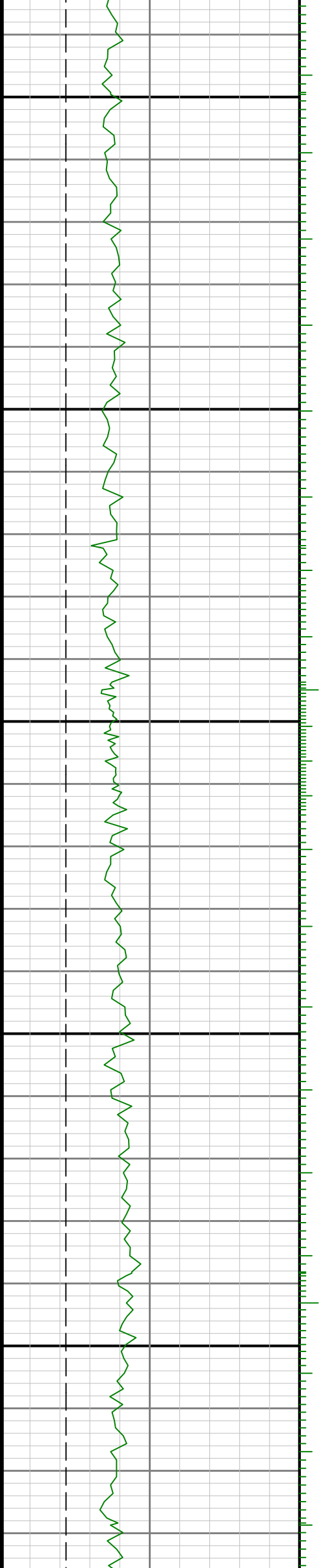


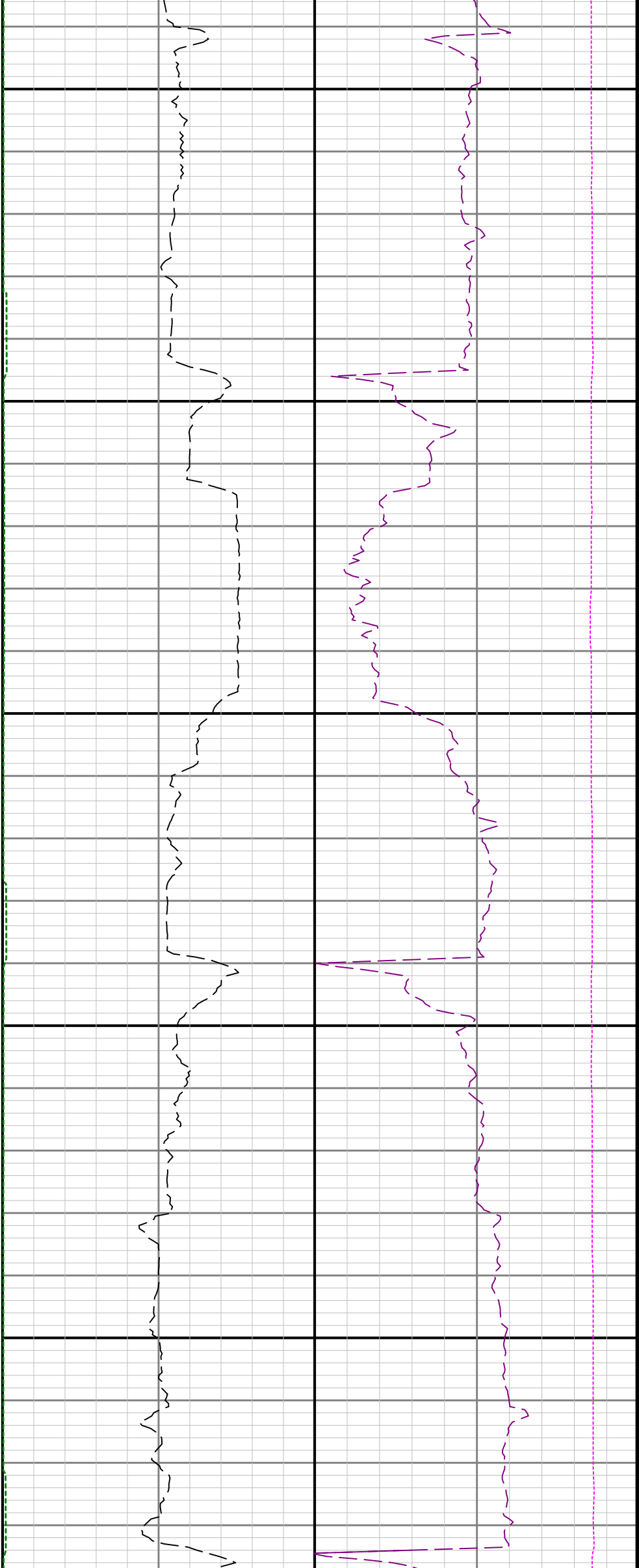




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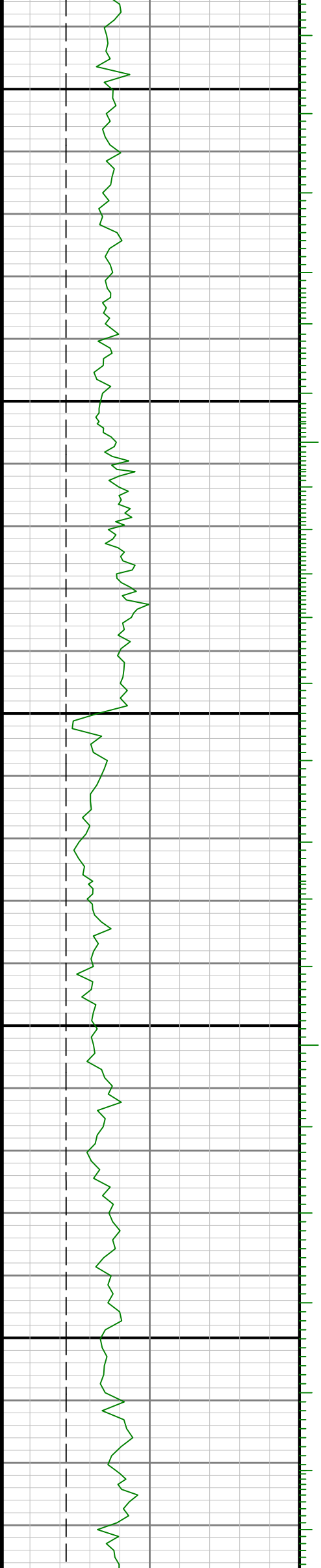




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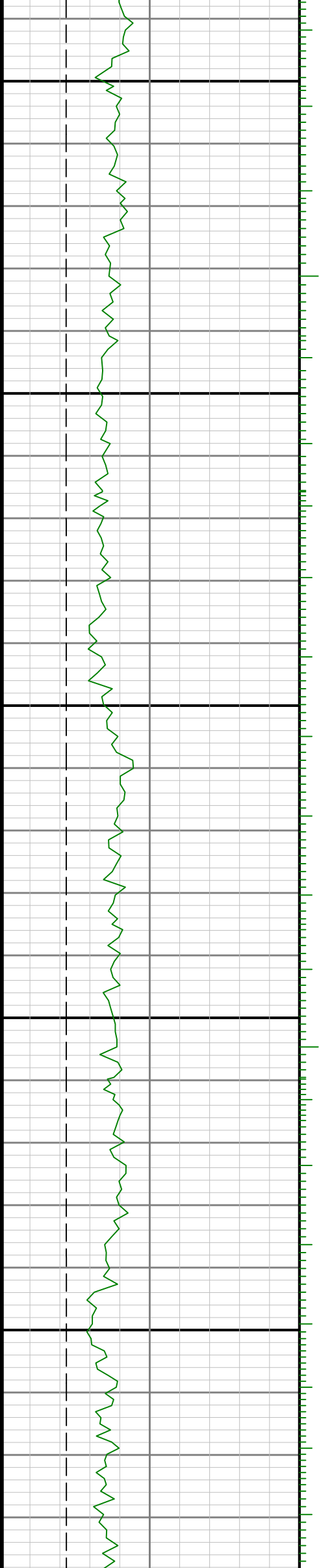


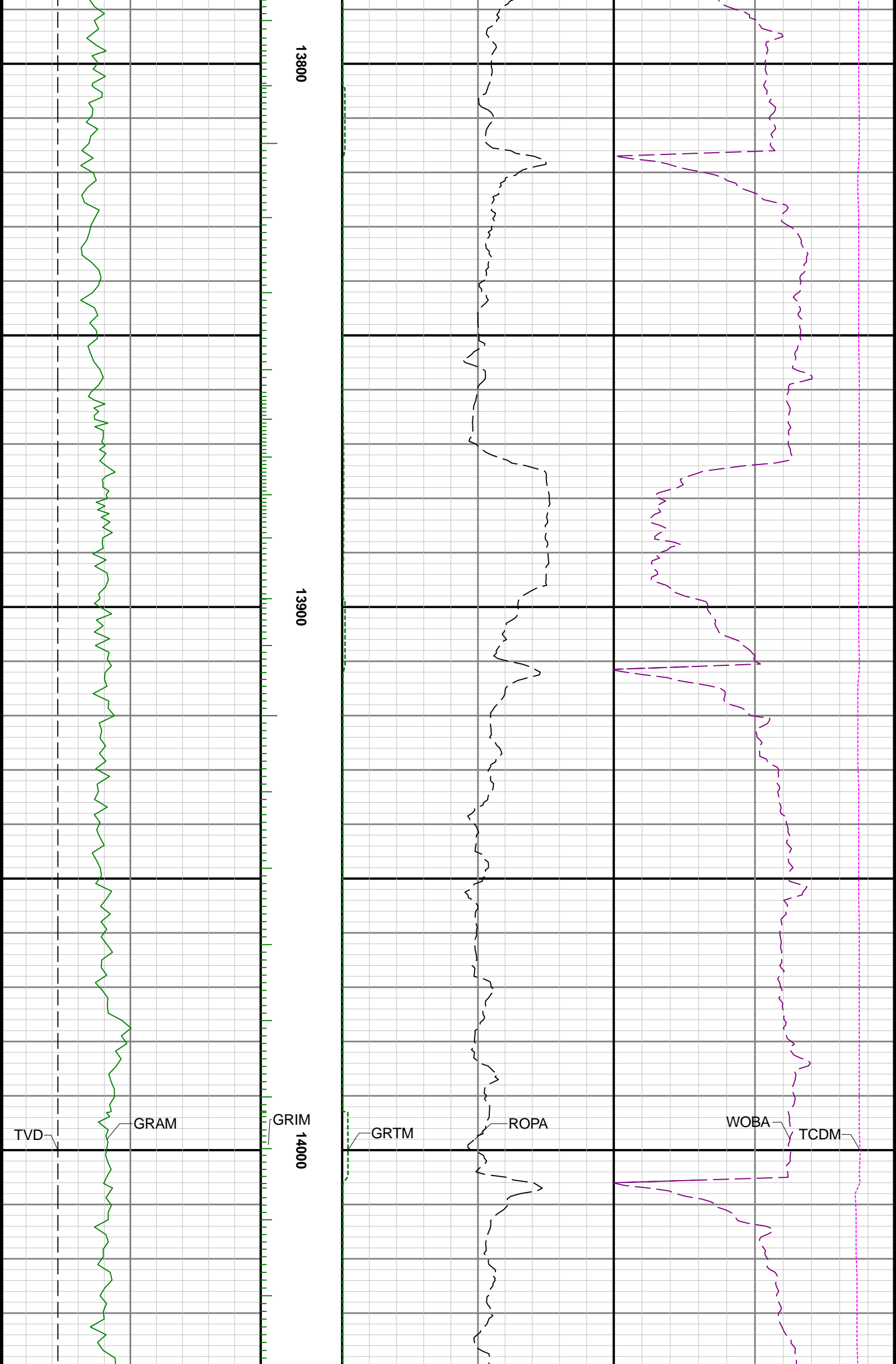


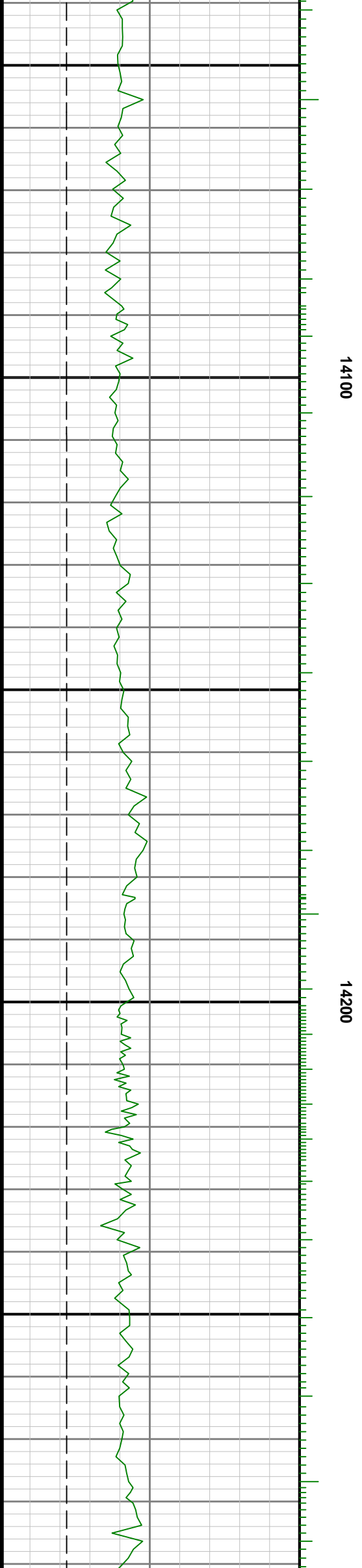
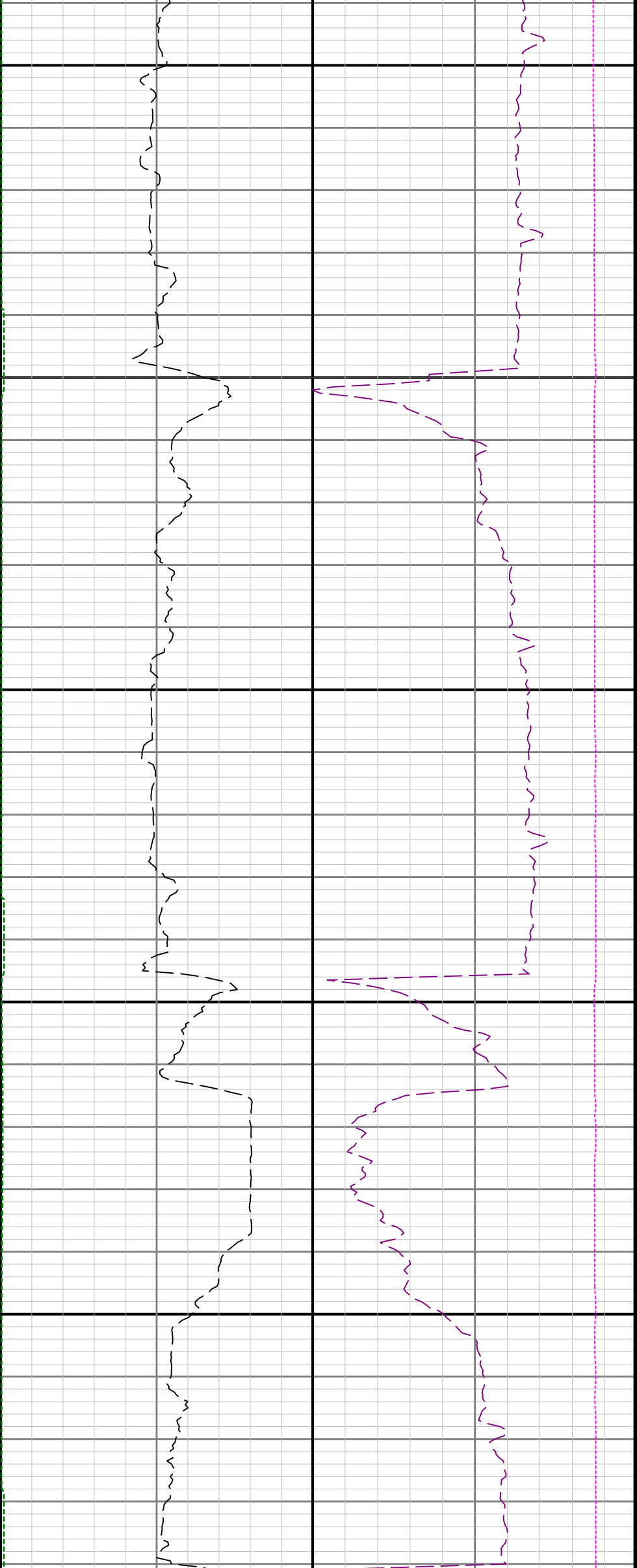


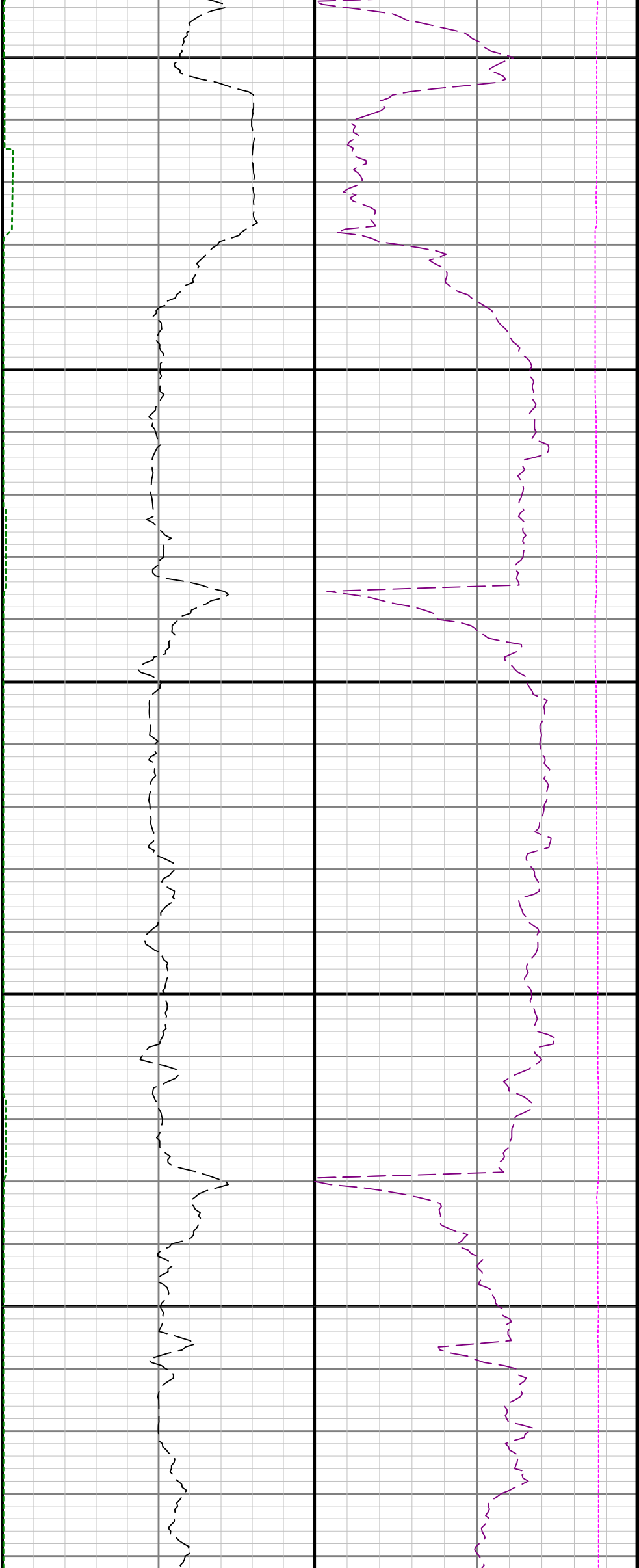
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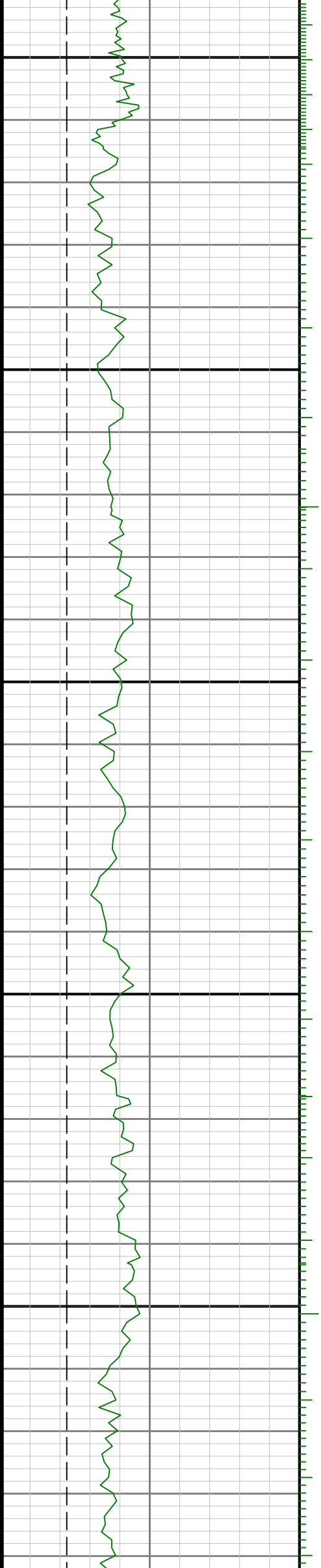


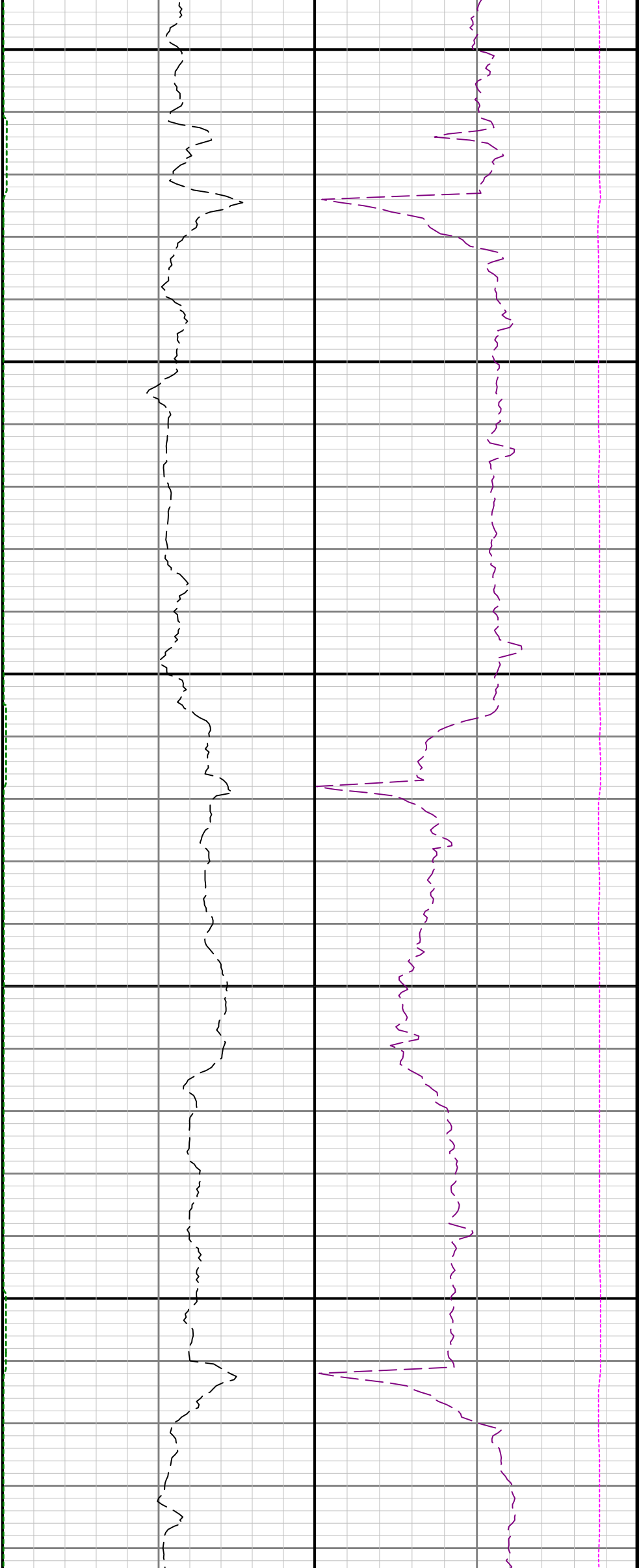


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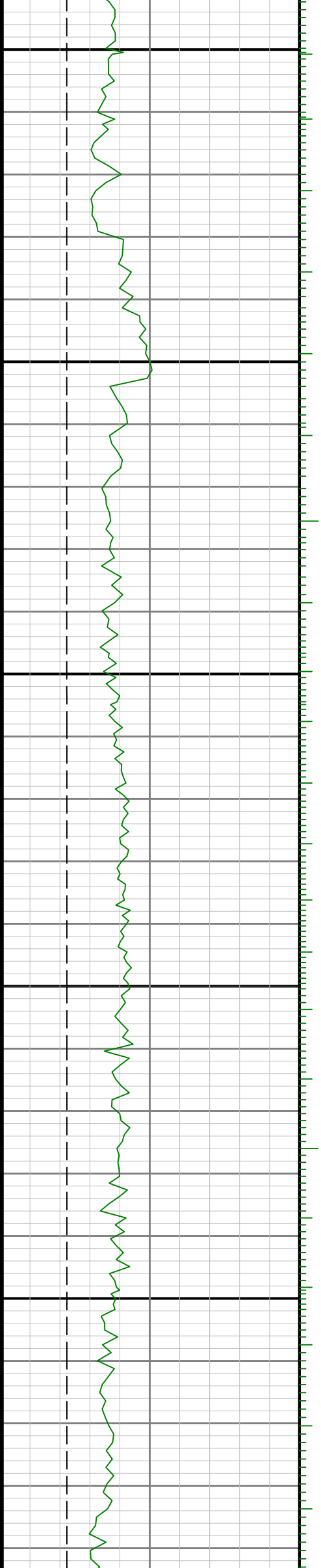
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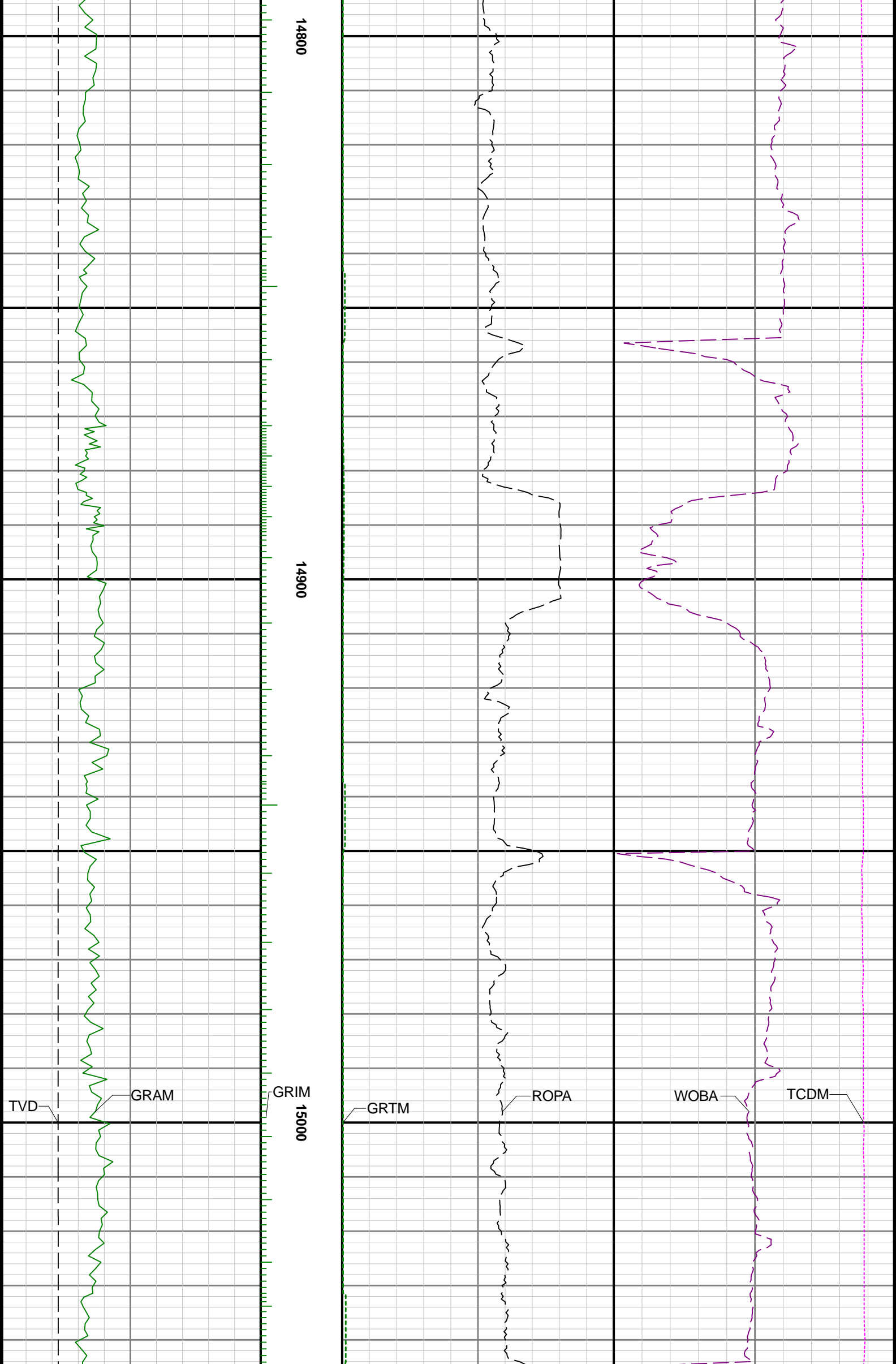


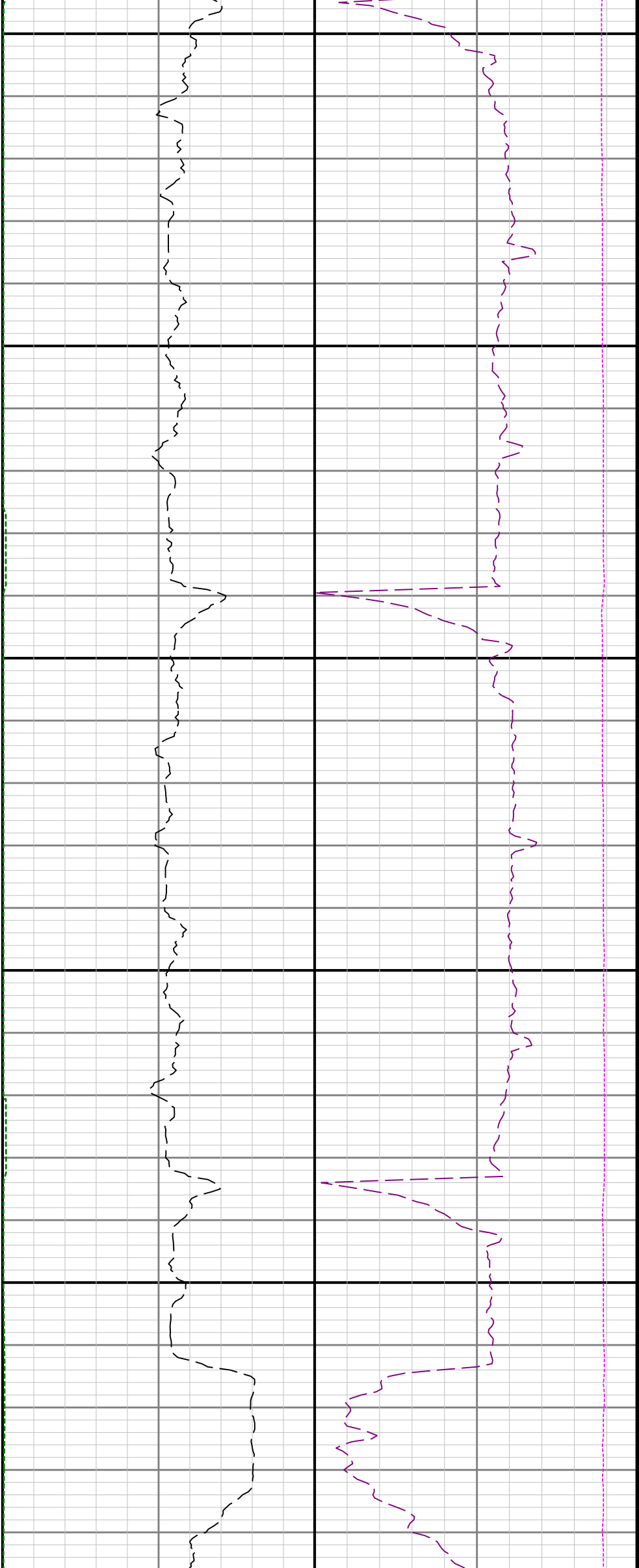


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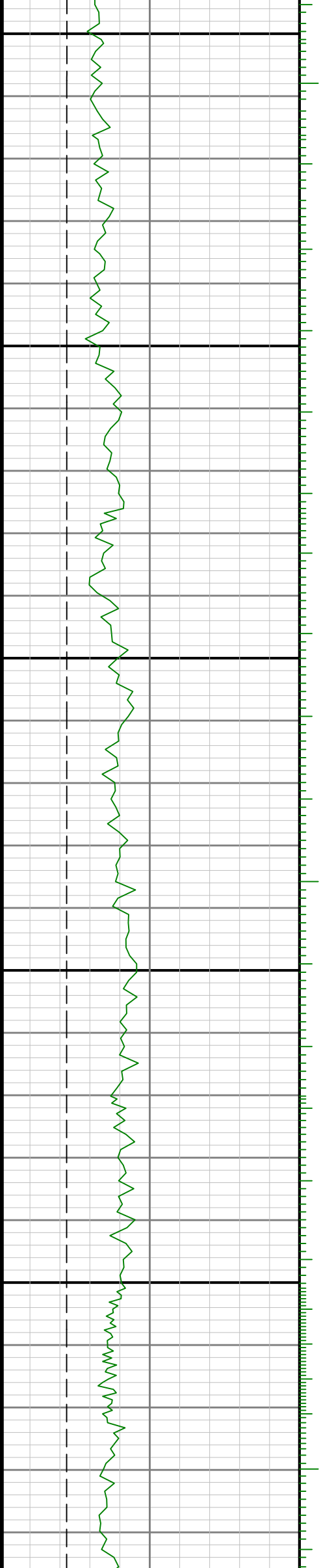


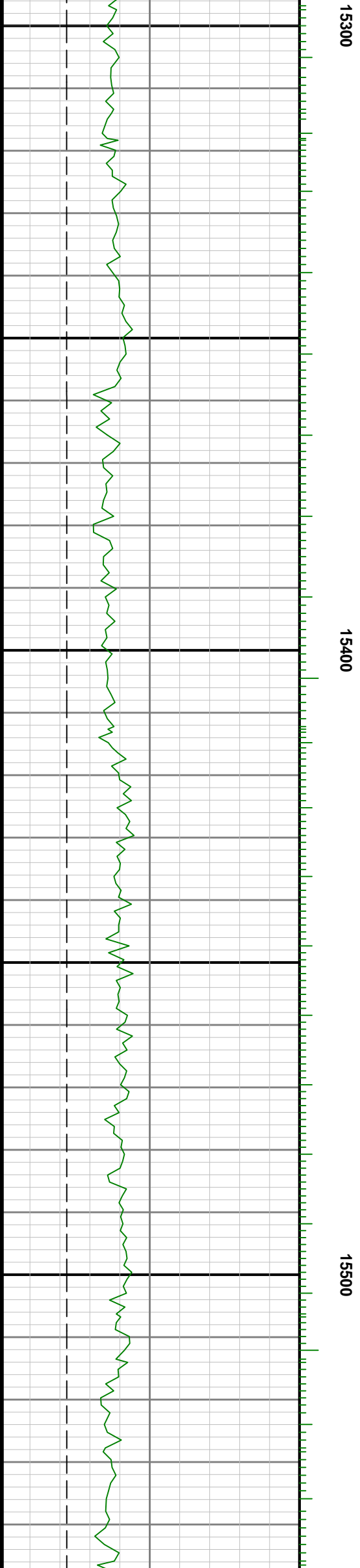
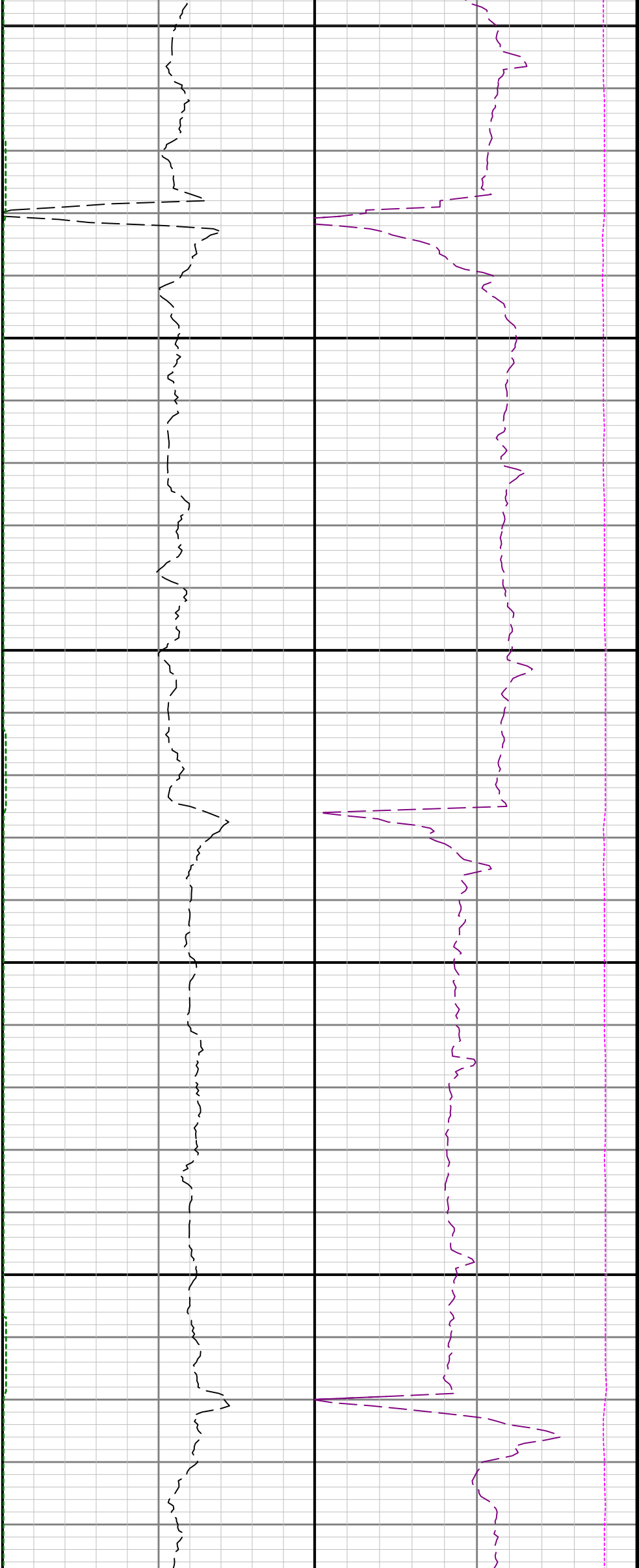




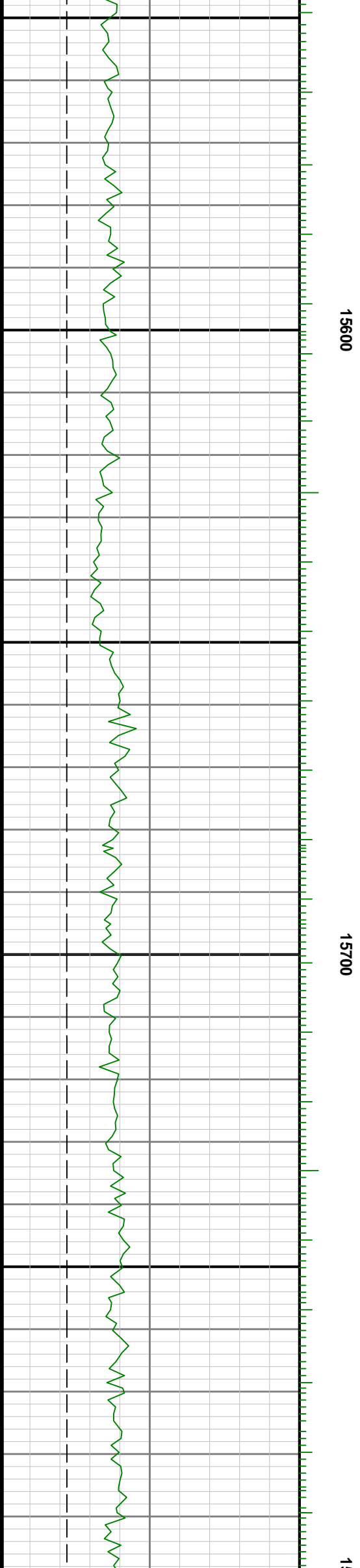
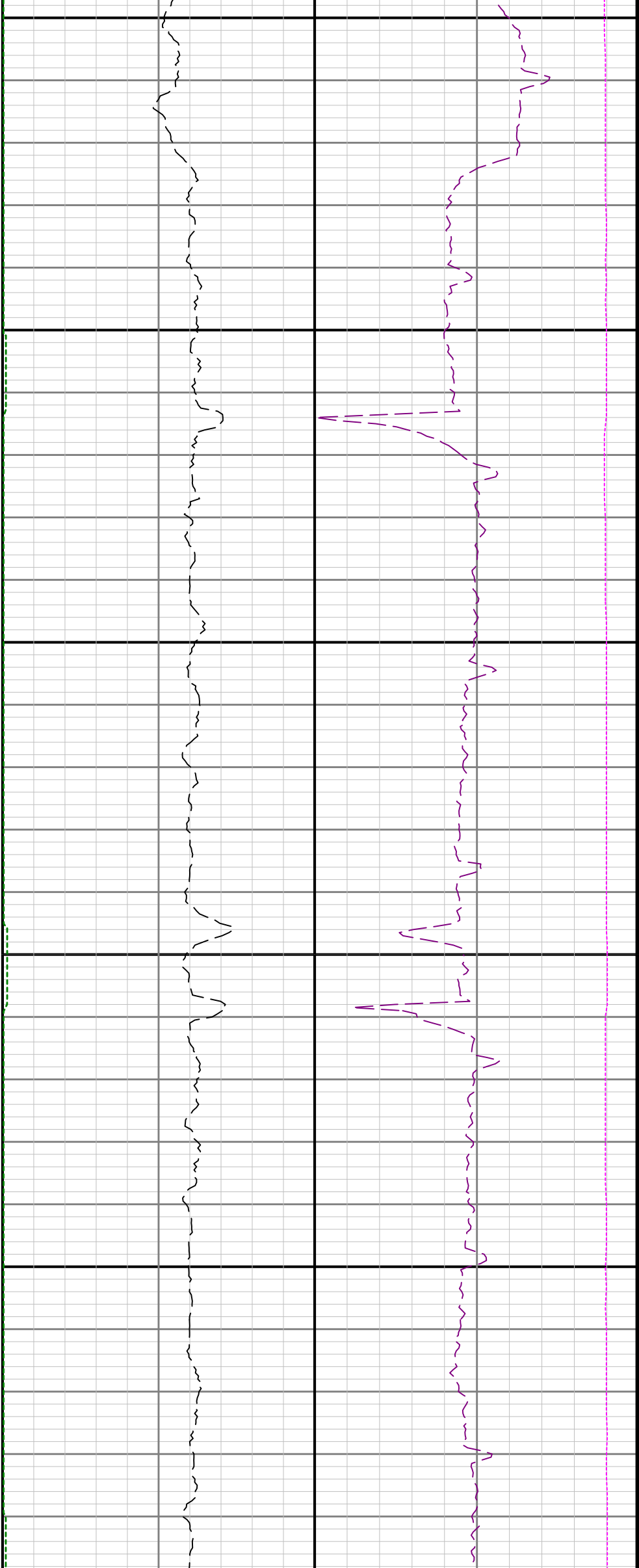
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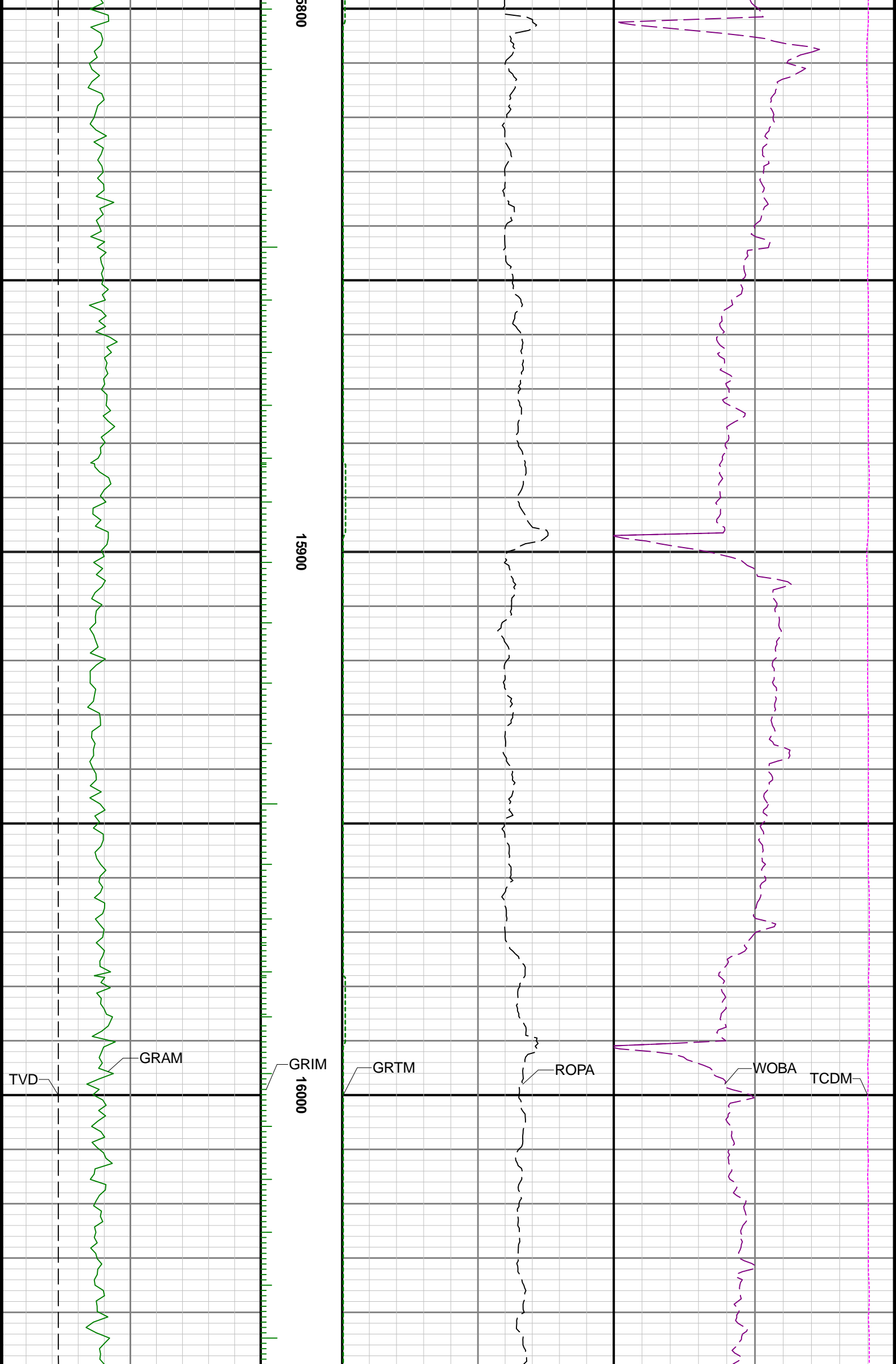
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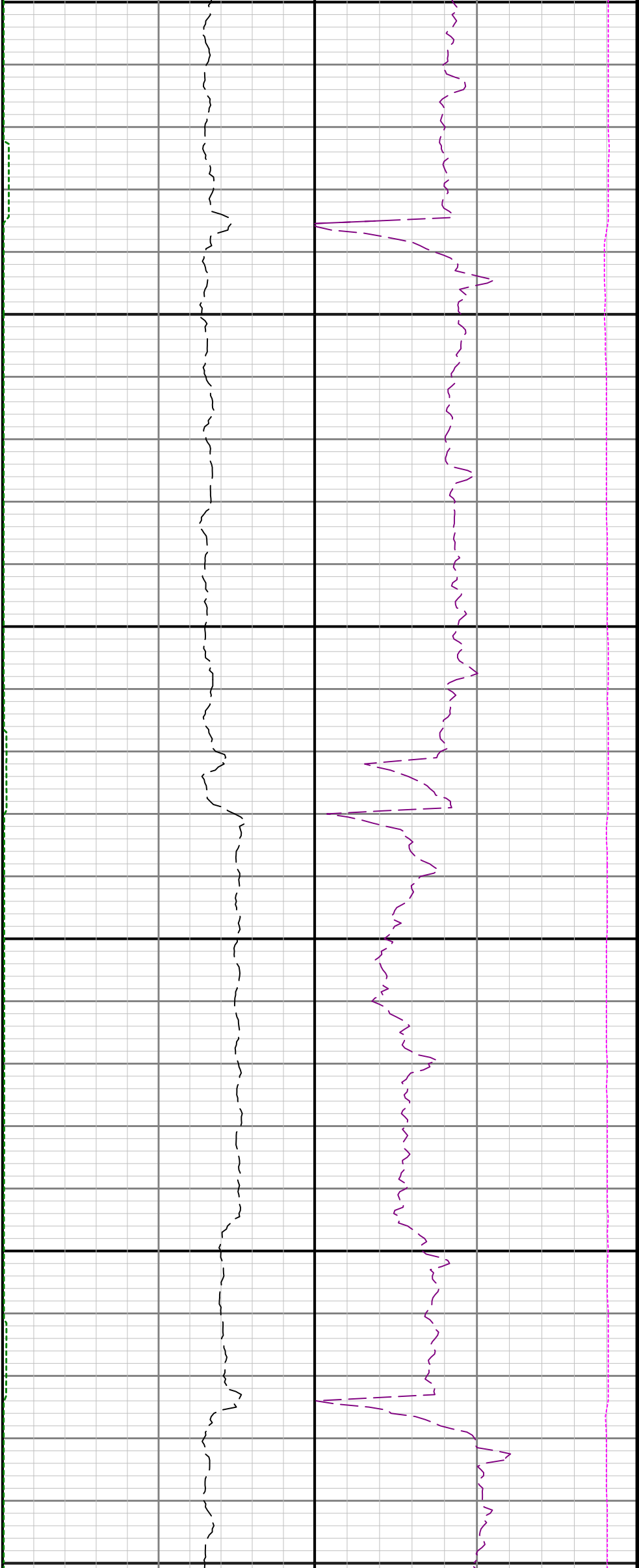








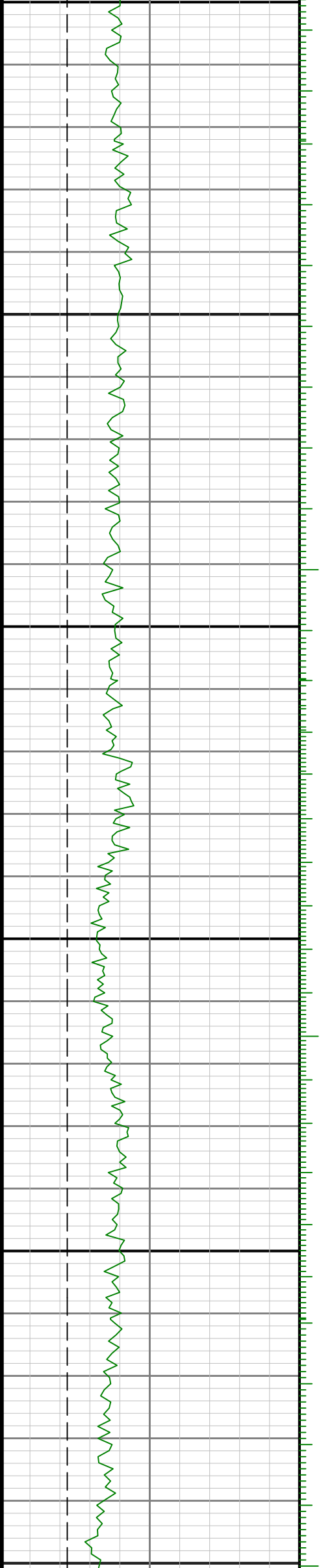


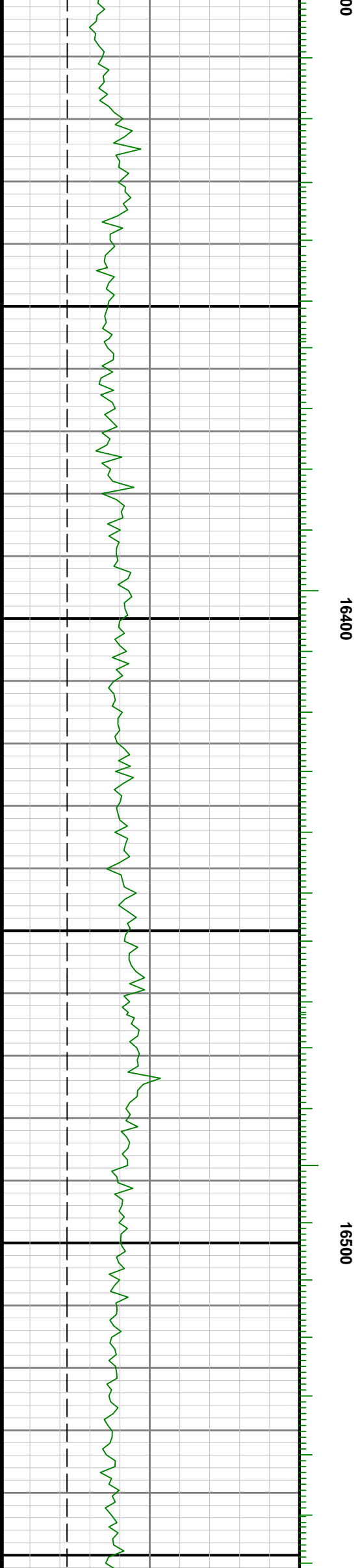
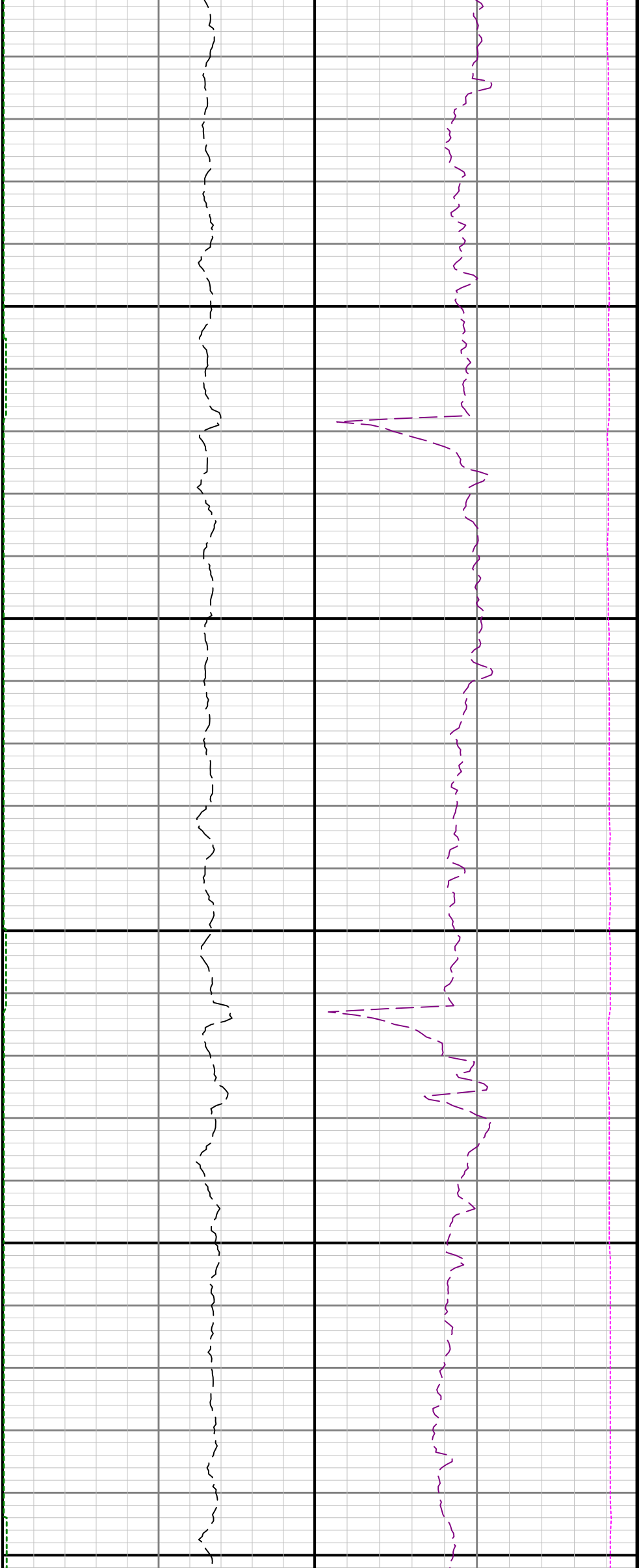


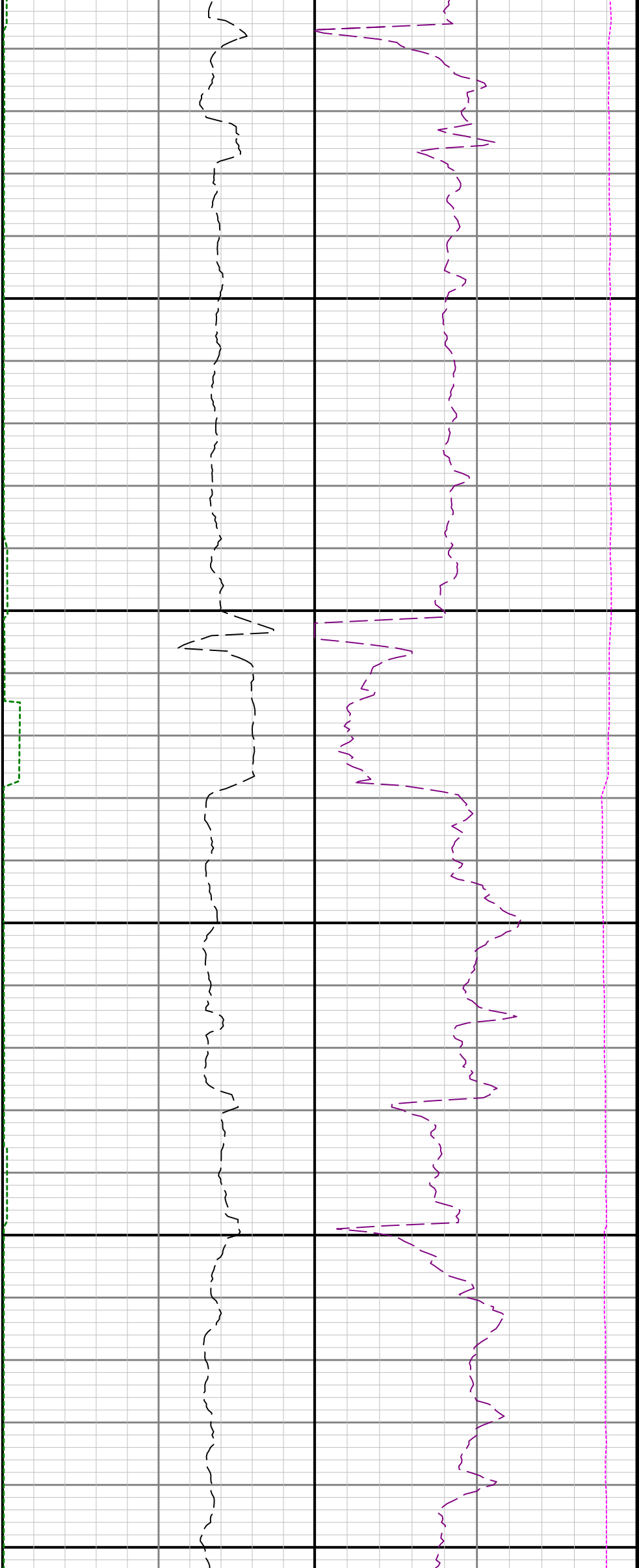
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