

2	AutoTrak Curve Steering Unit	15082648	Near Bit VSS	5.93	6.78	7.000	4.330
2	AutoTrak Curve MWD	14275758	Gamma (single)	2.84	12.95	7.000	3.250
2	AutoTrak Curve MWD	14275758	Directional (mag)	12.27	22.38	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 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 17374 feet MD (1949 to 6645 feet TVD).
- 2

The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request.
- 3

Various gaps were not logged due to tool issue unable to power up.
- 4

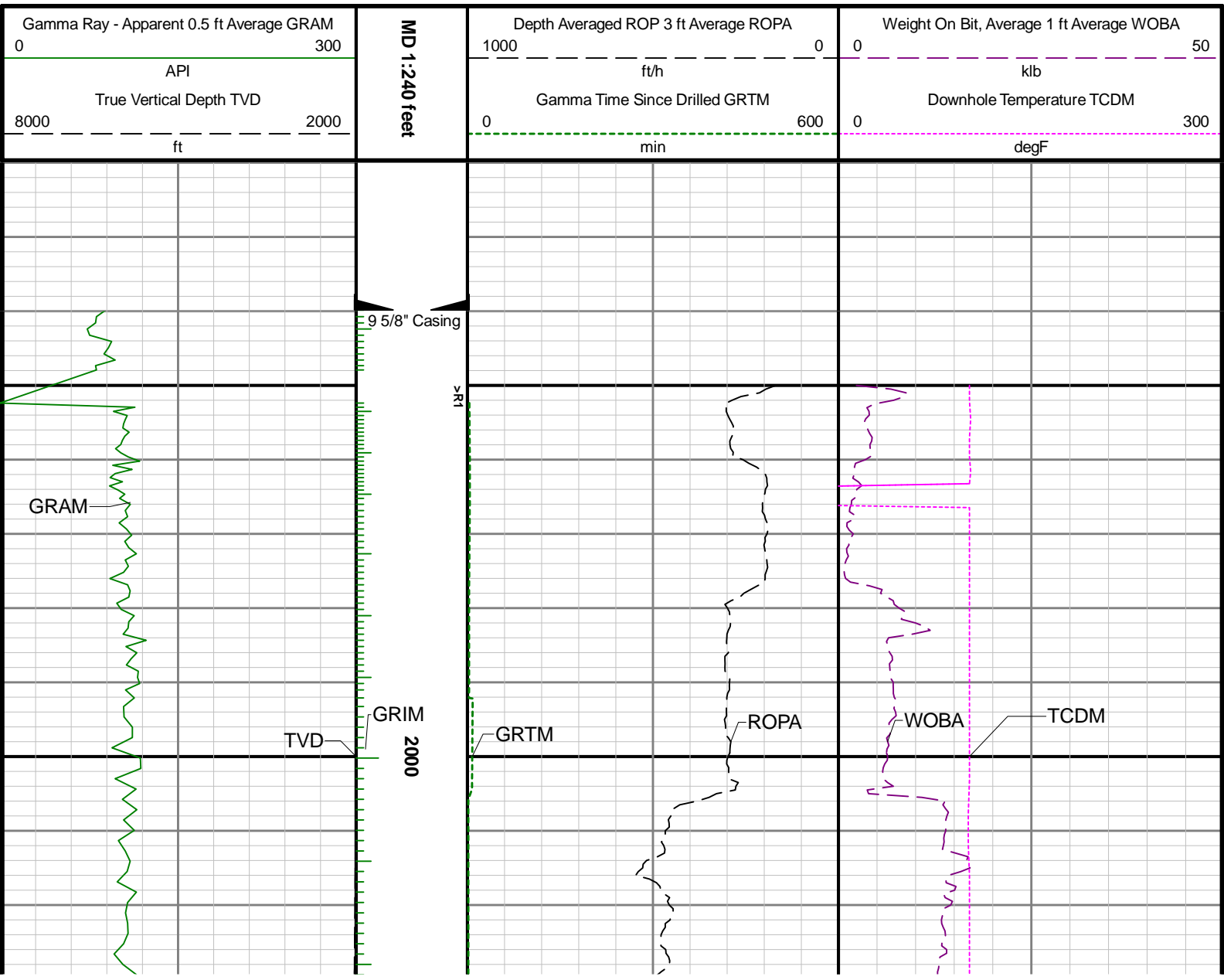
Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to a lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to present logging data.

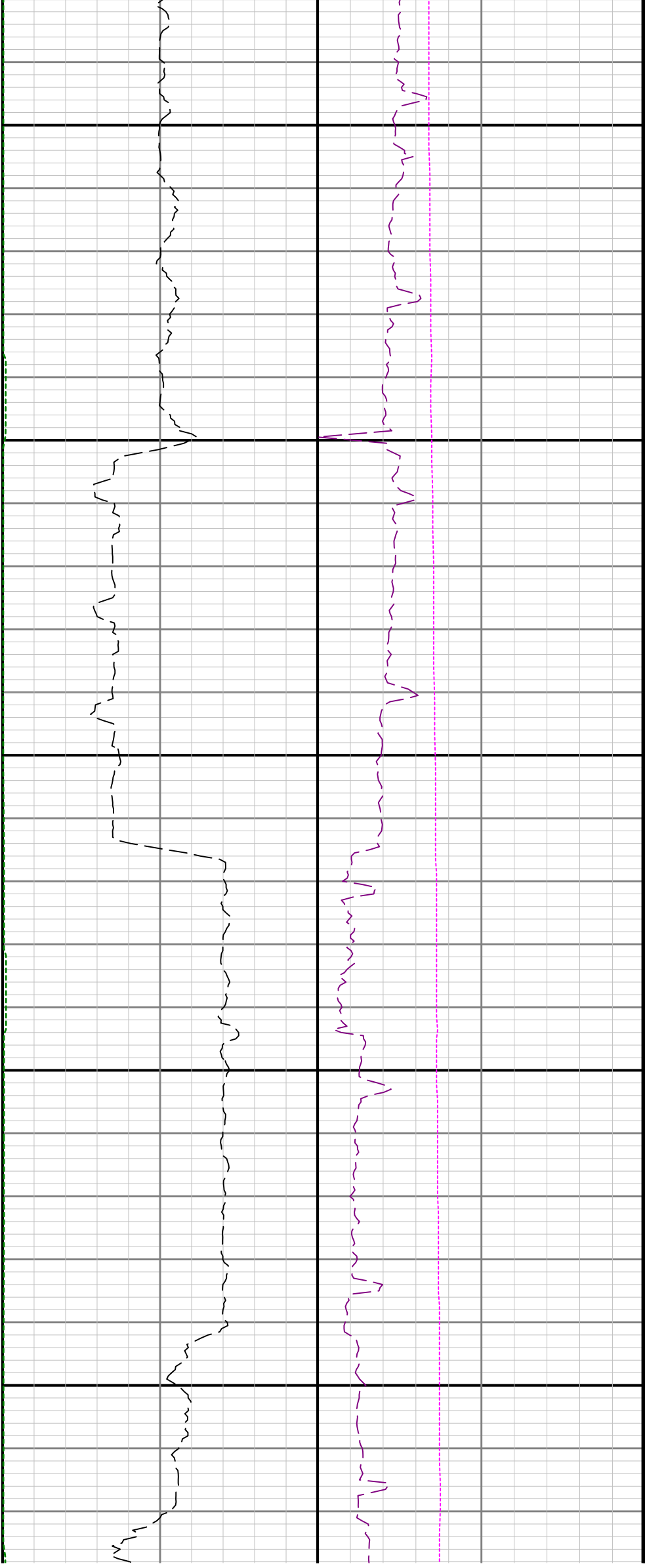
Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	14823.00	8.500	2	The interval from 14823 to 14835 feet MD (6647 to 6647 feet TVD) was logged up to 16 hours after being drilled due to a trip out of the hole for MWD tool failure.
2	16824.00	8.500	2	The interval from 16824 to 16926 feet MD (6644 to 6644 feet TVD) was not logged due to tool issue unable to power up.
3	17020.00	8.500	2	The interval from 17020 to 17374 feet MD (6645 to 6645 feet TVD) was not logged due to tool issue unable to power up.

Curve Mnemonics

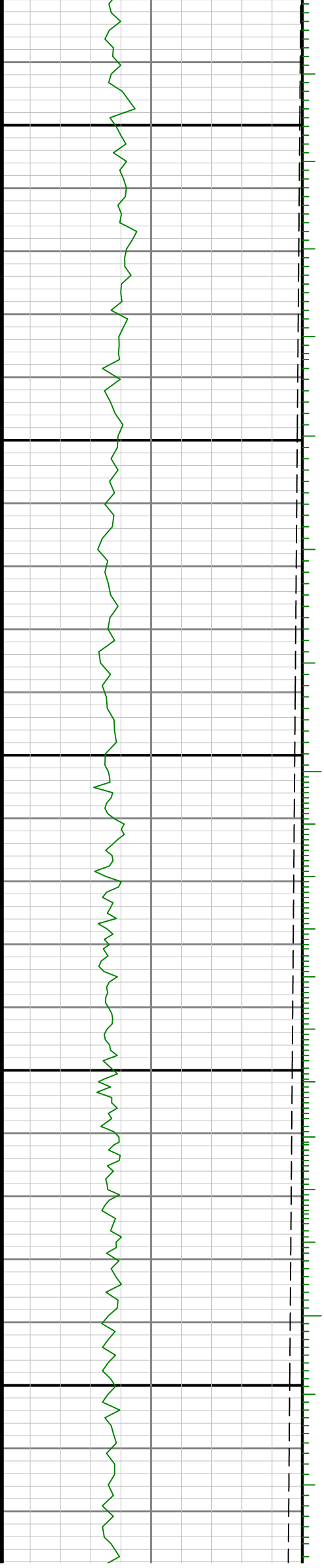
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
GRIM	Gamma Ray - Data Point Indicator - Memory	unitless
GRTM	Gamma Ray - Time Since Drilled - Memory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

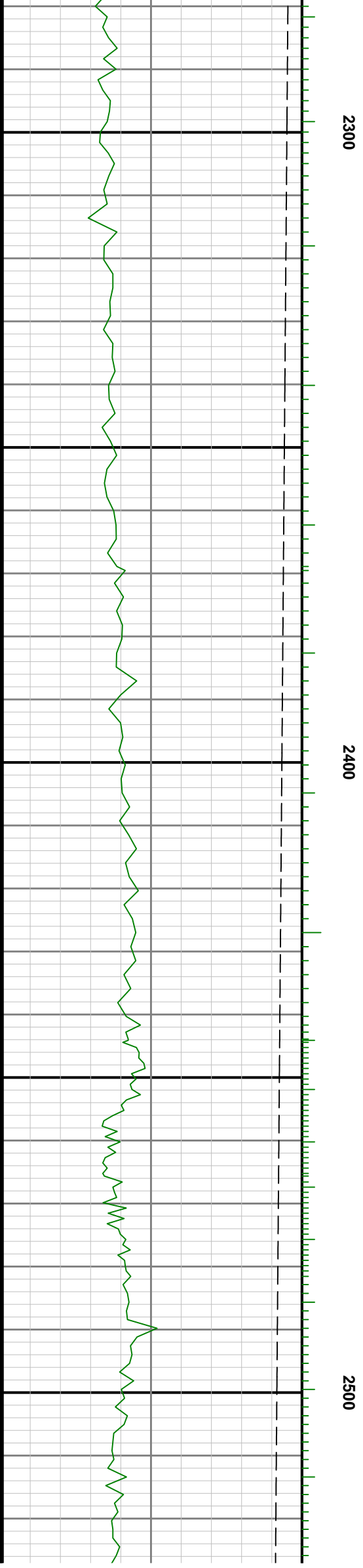


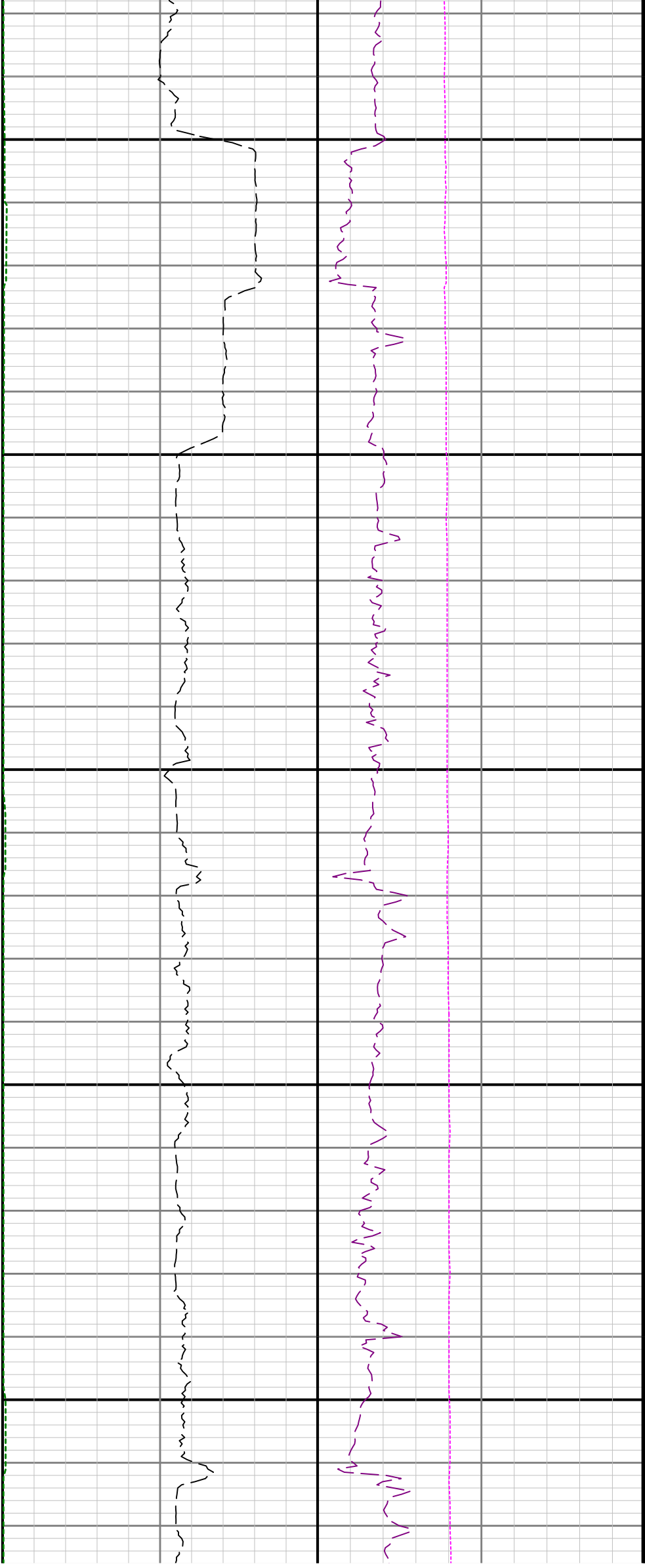


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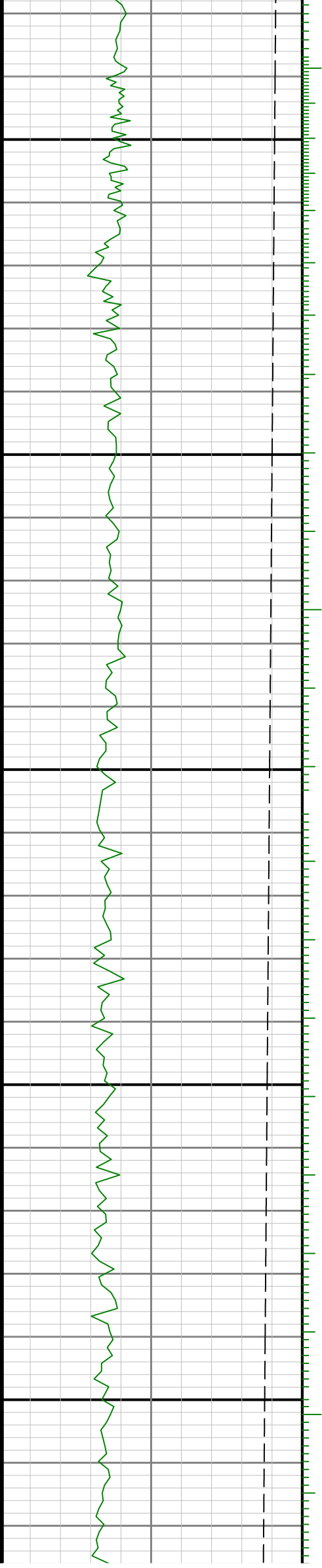


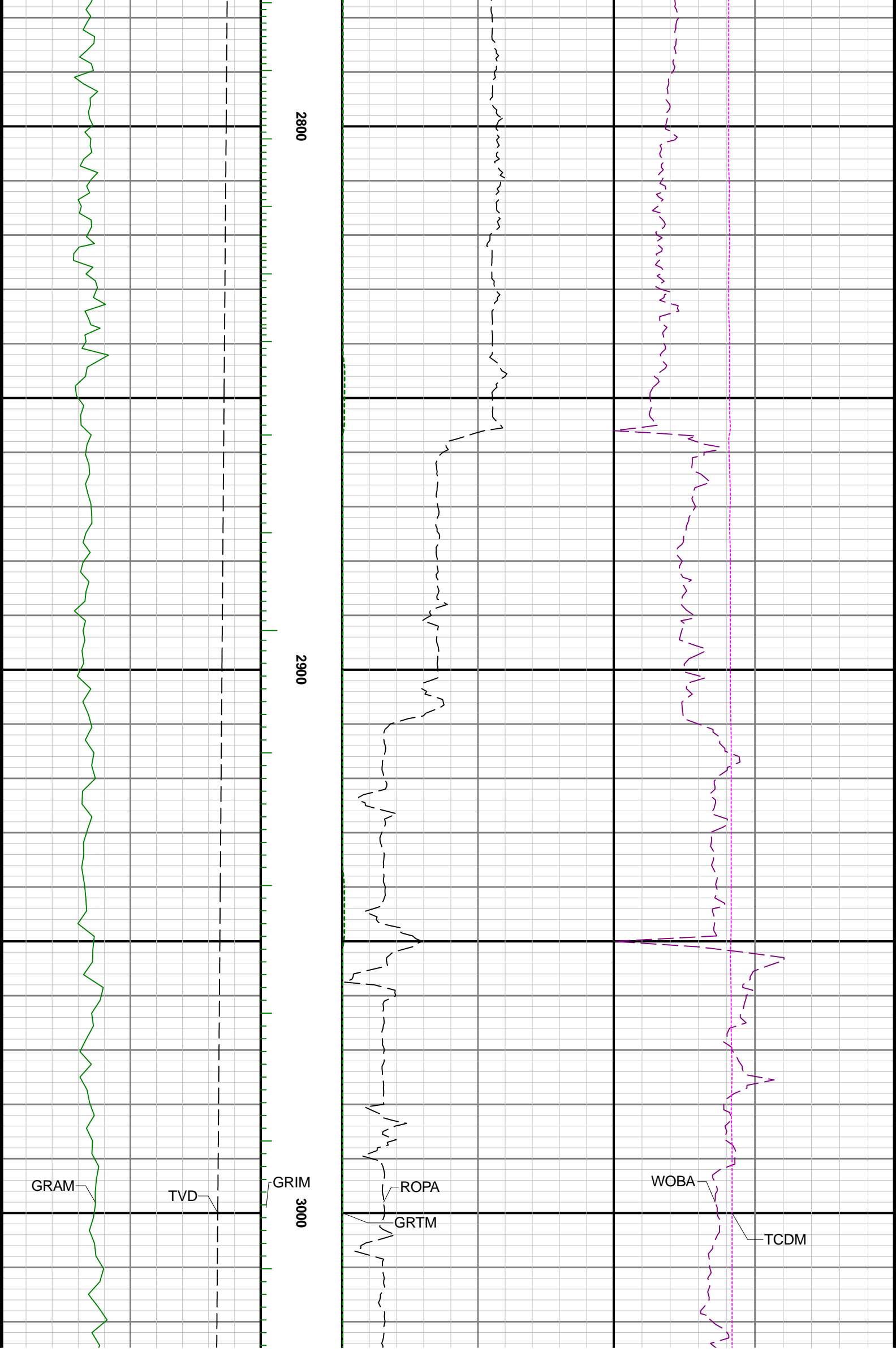


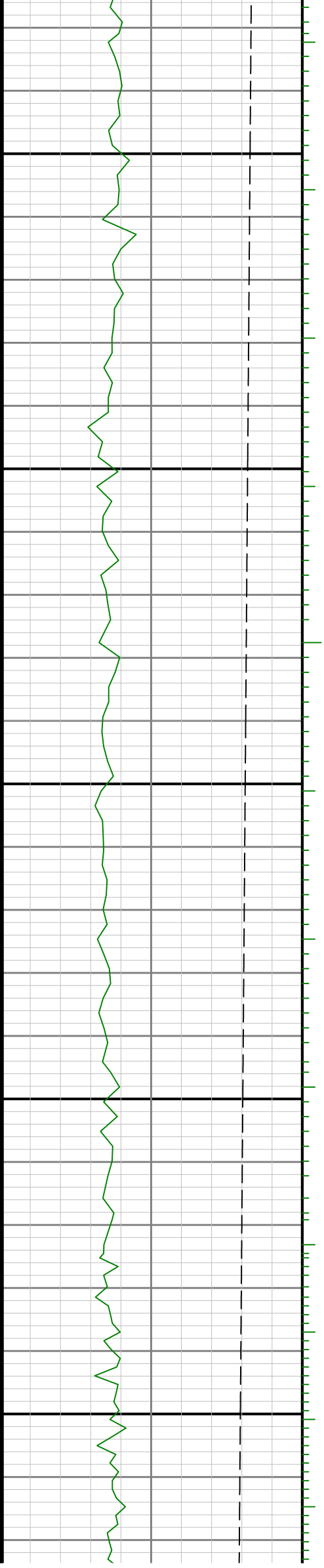
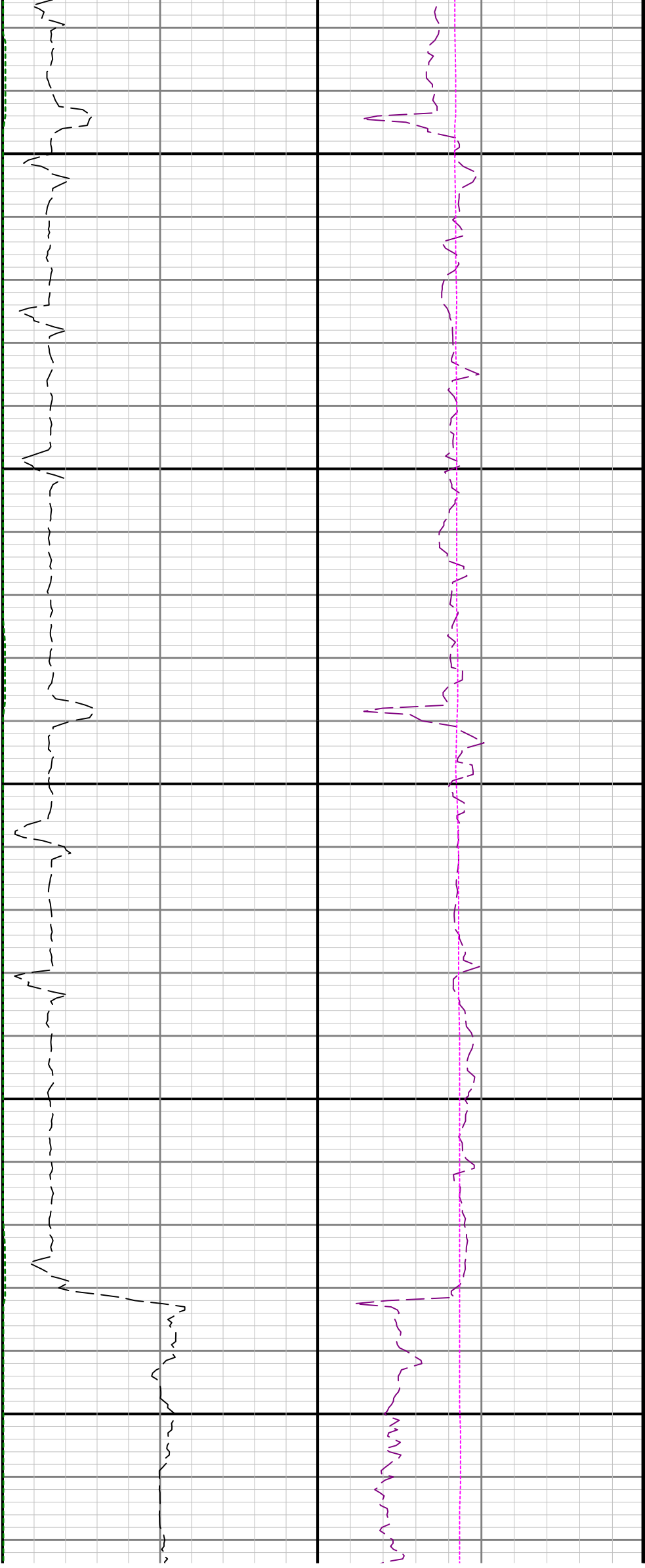


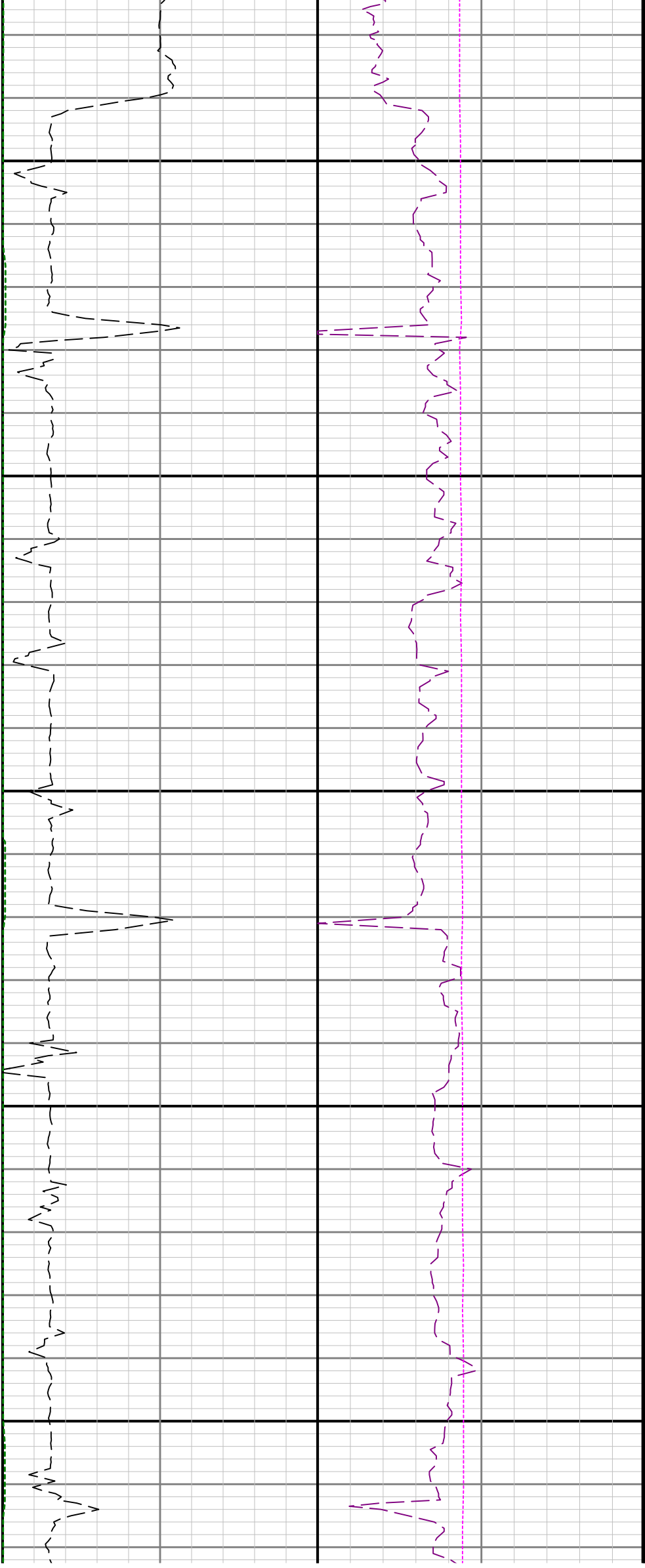
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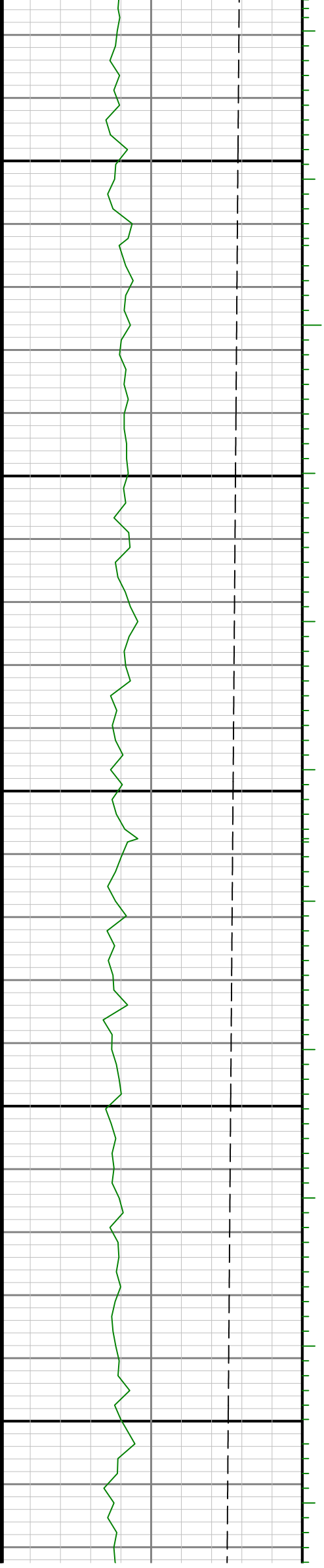


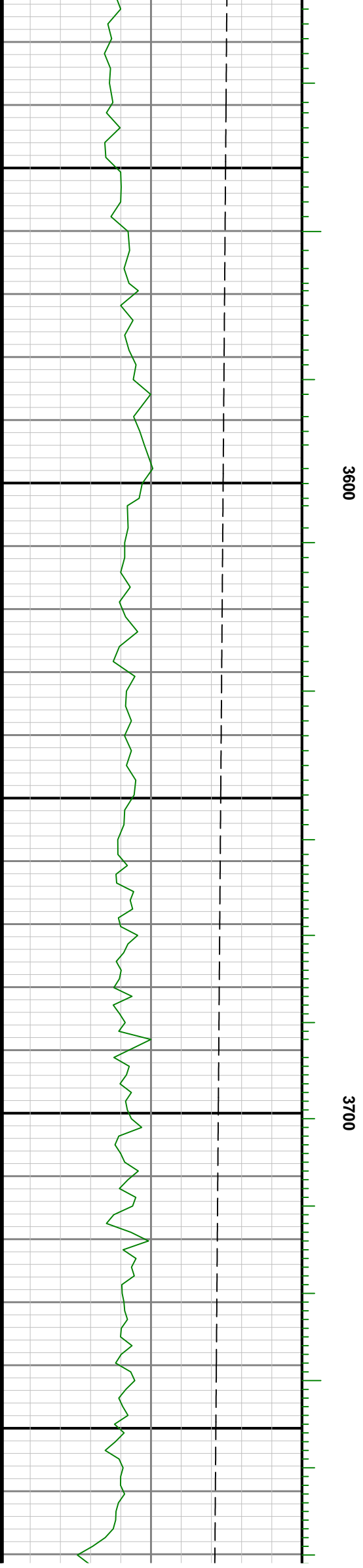
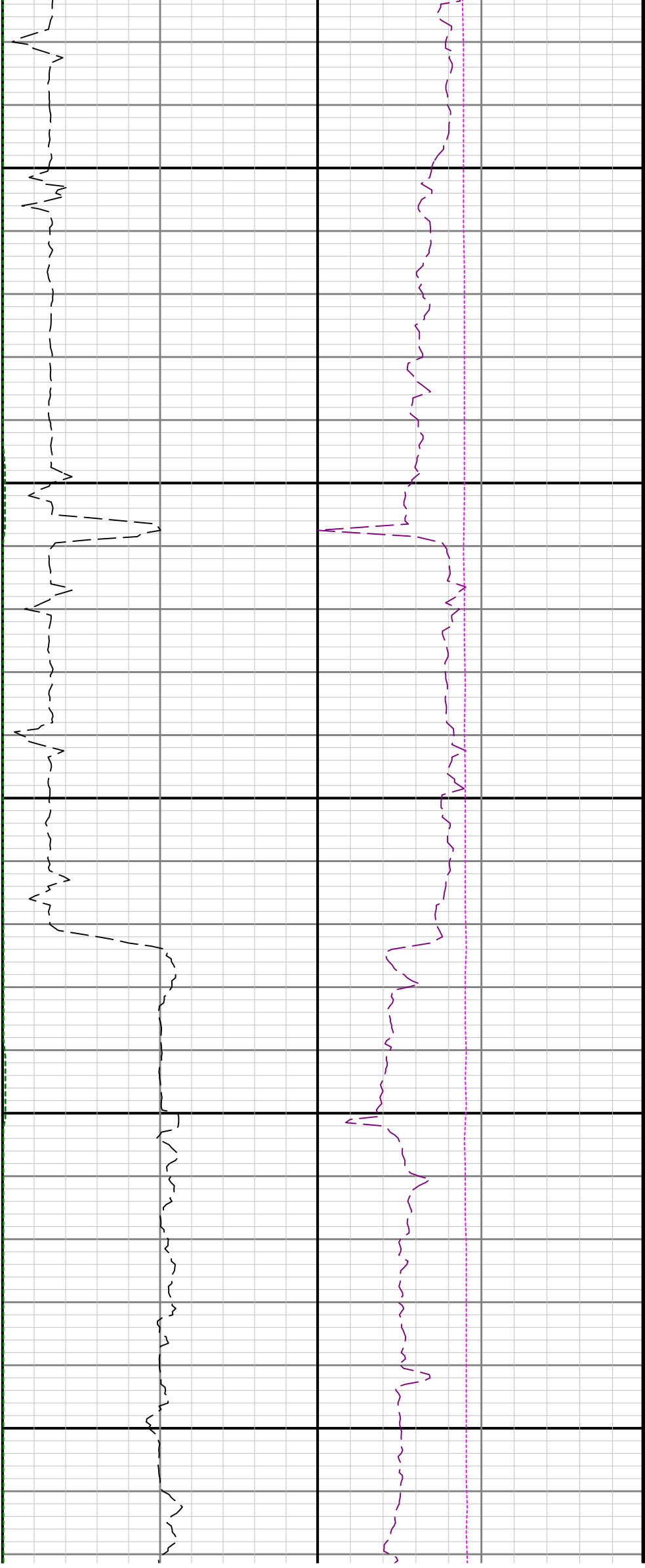


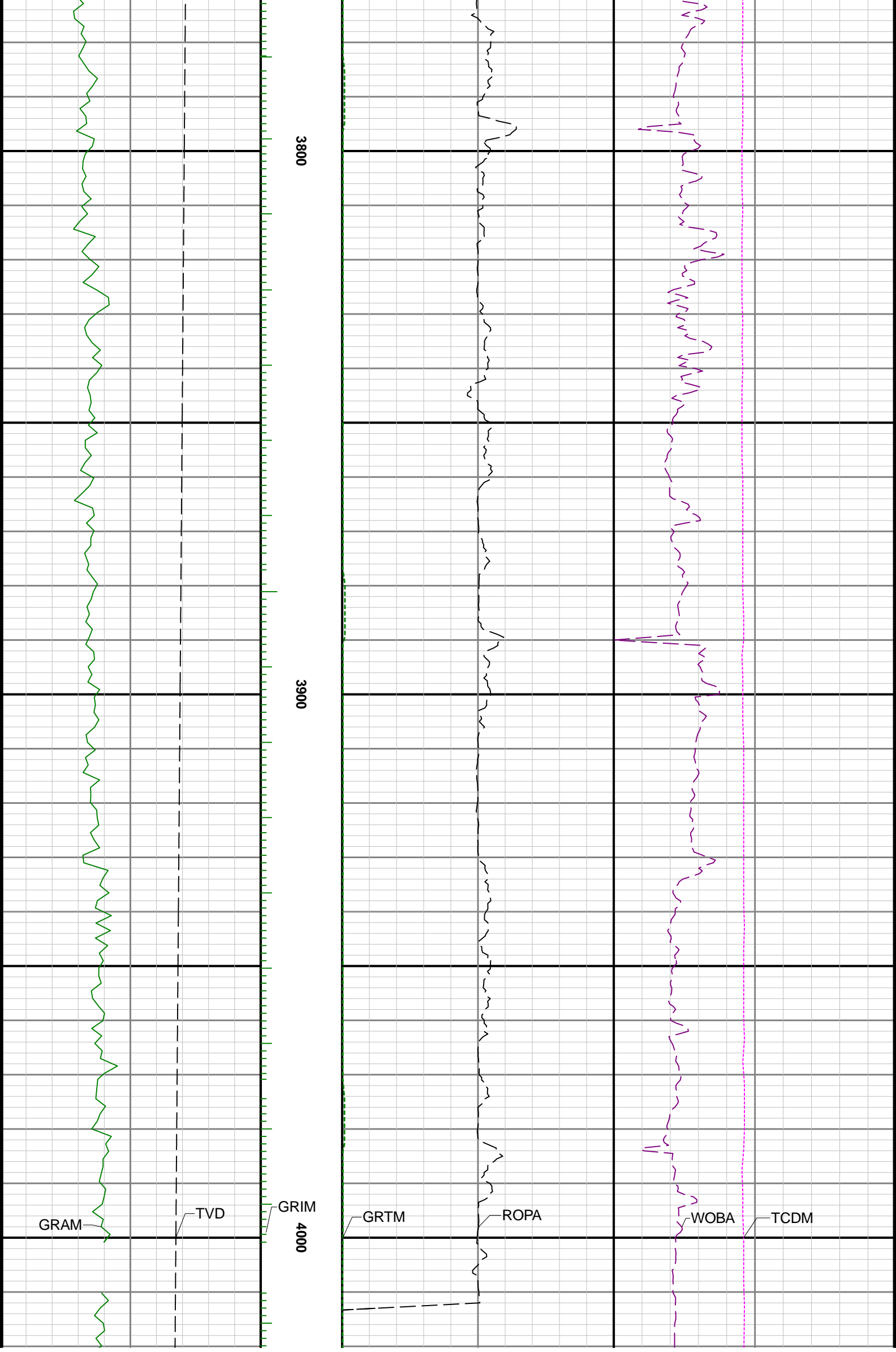
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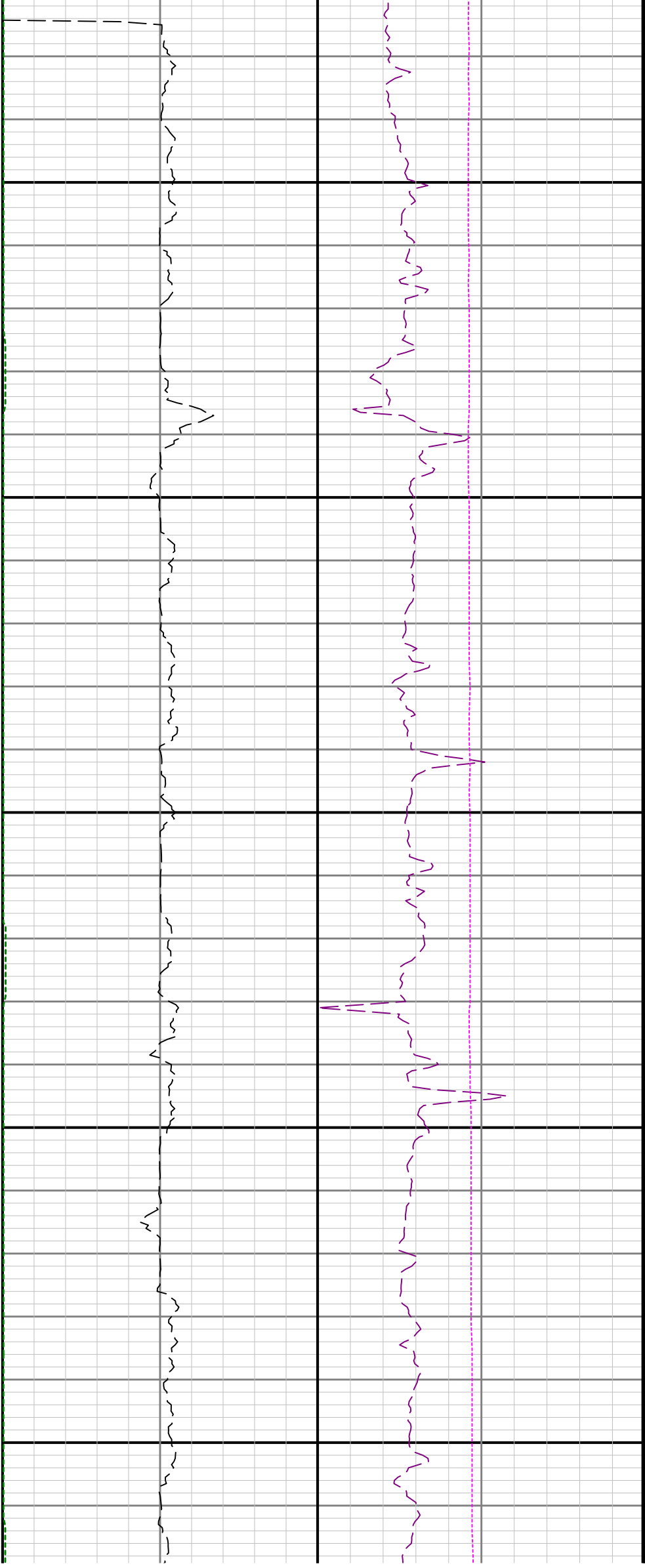
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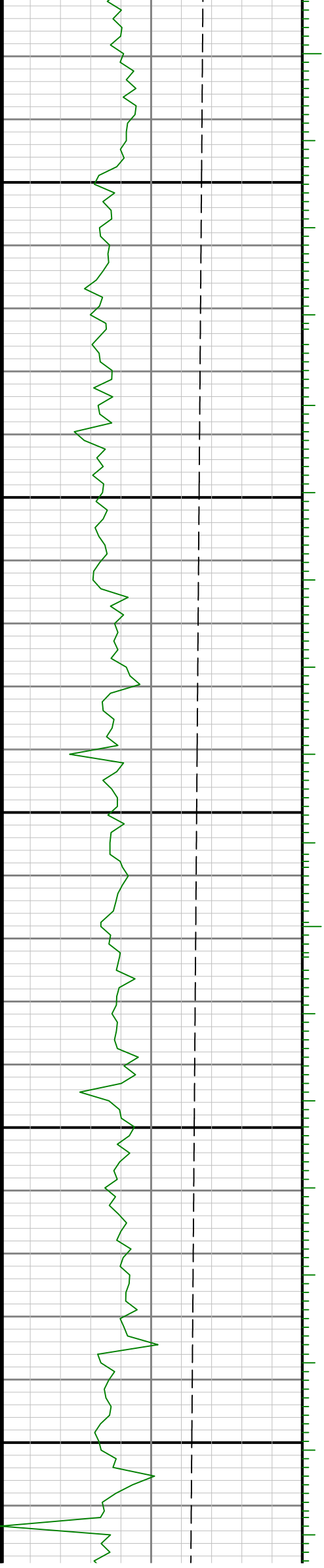


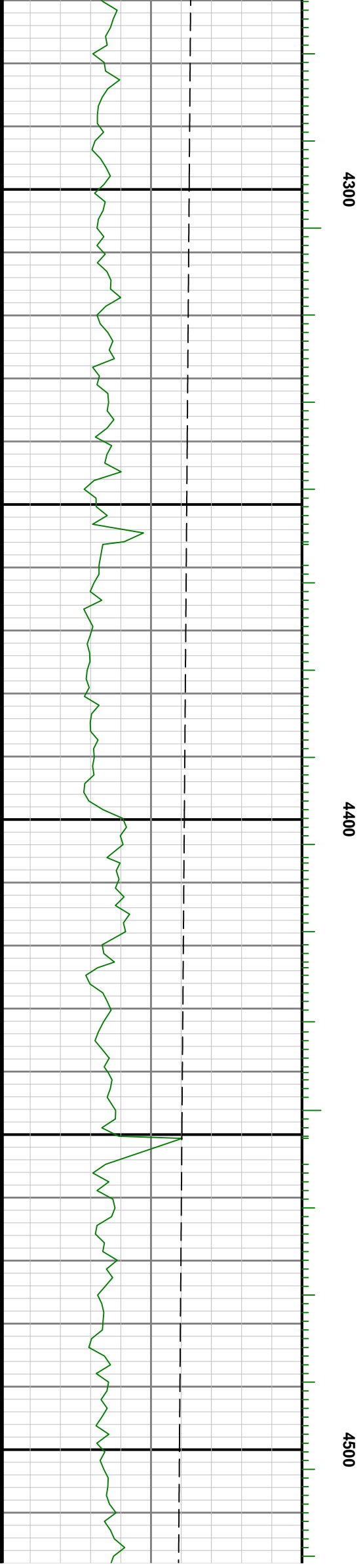
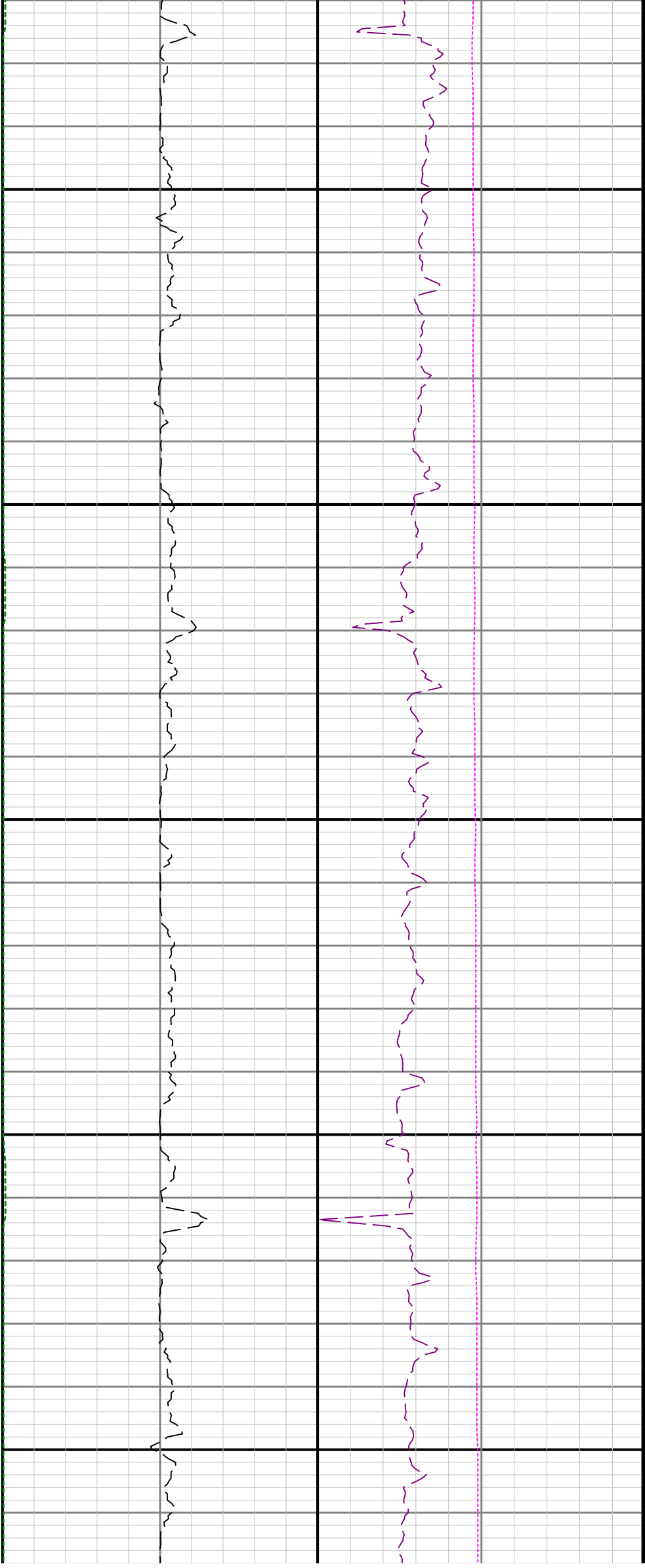


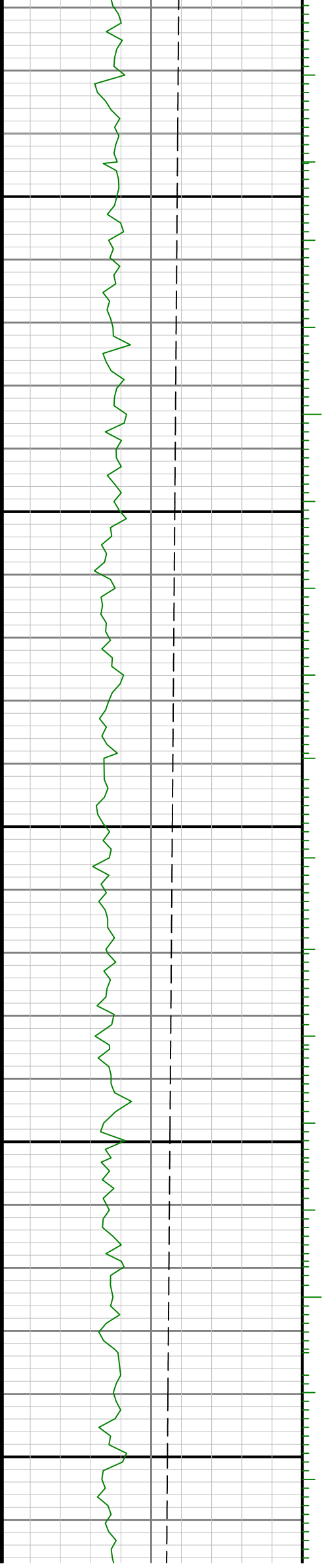
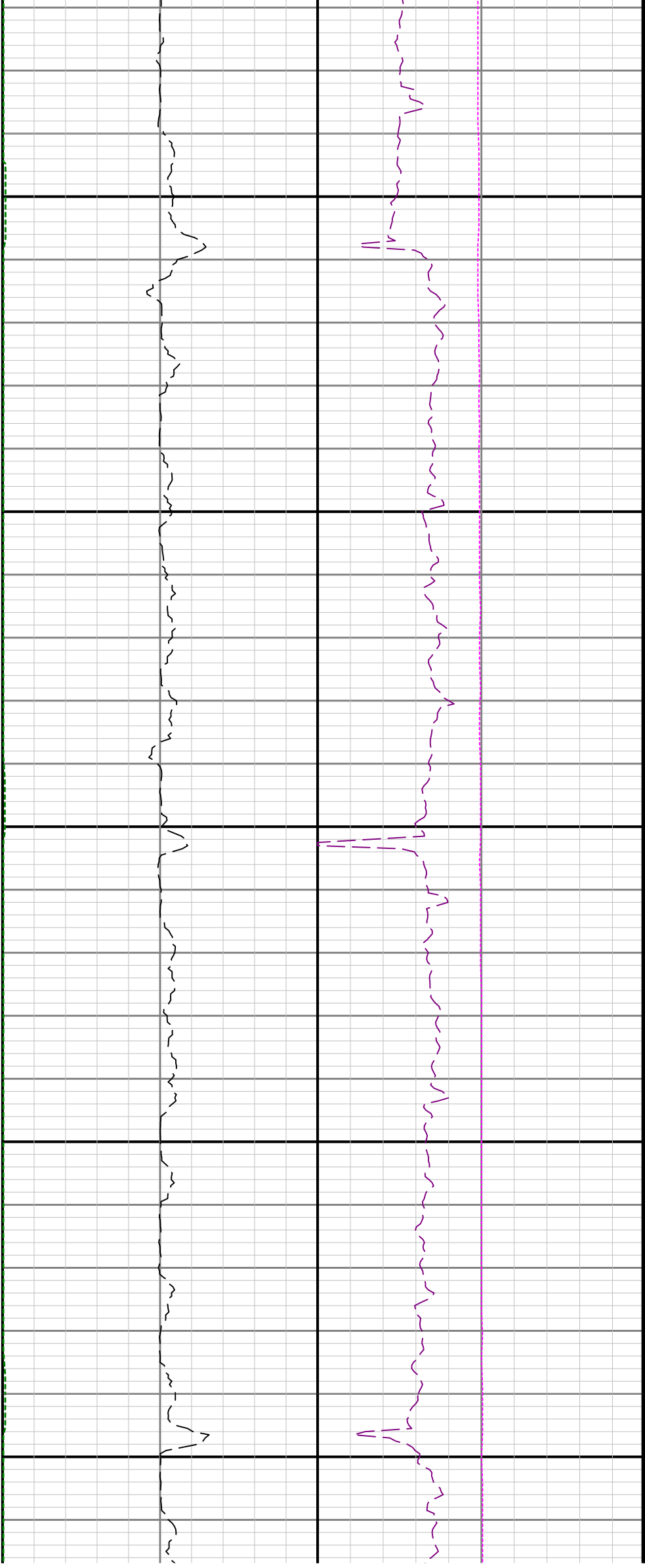


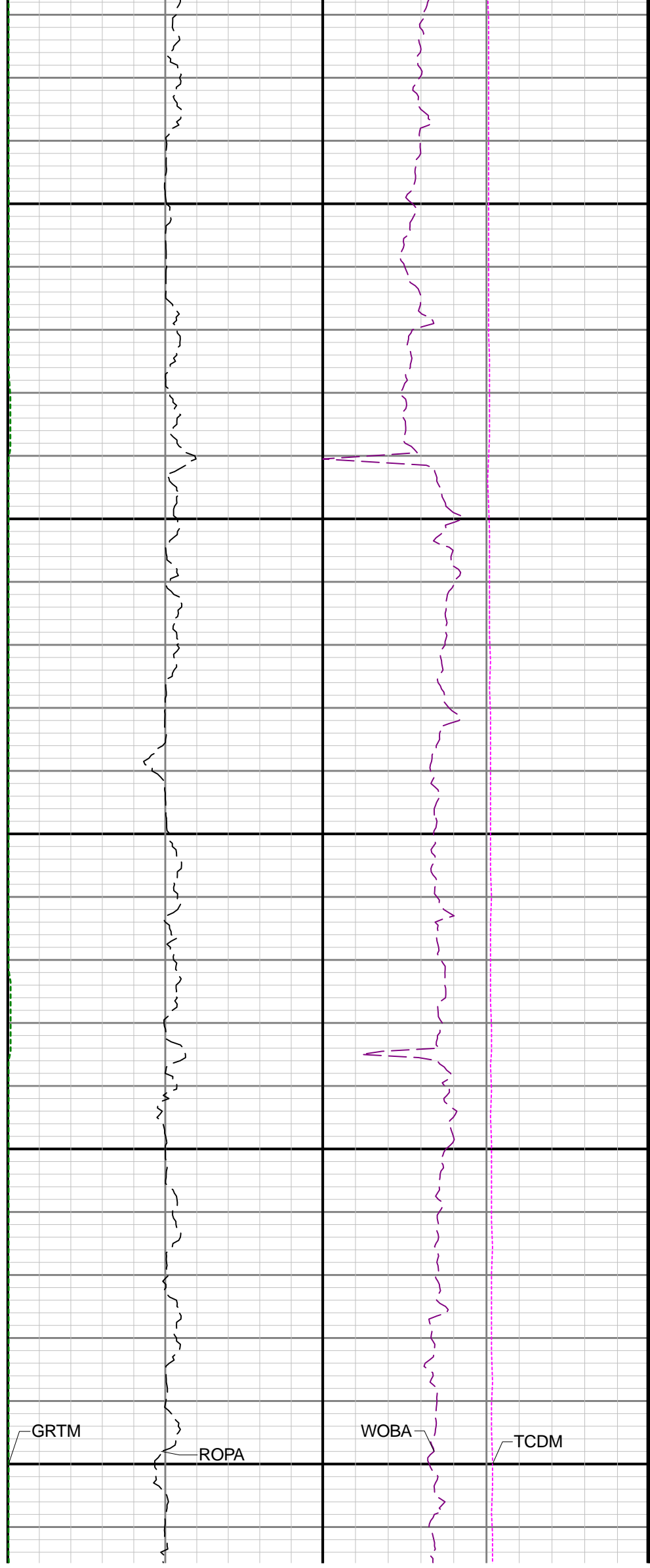
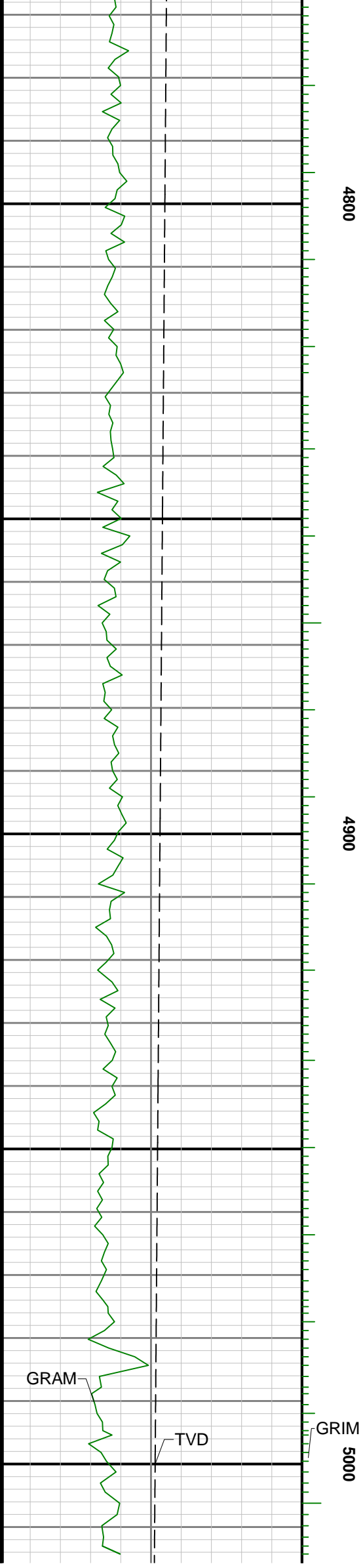
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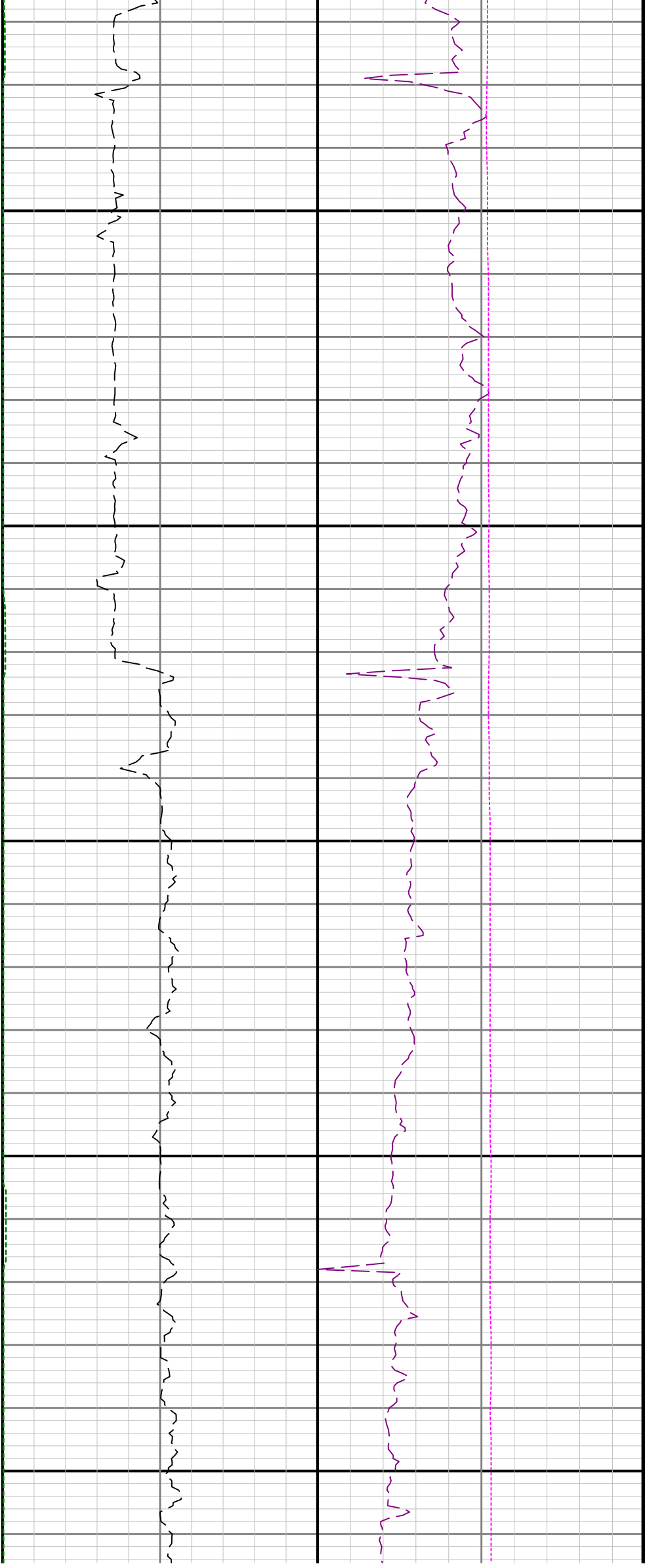
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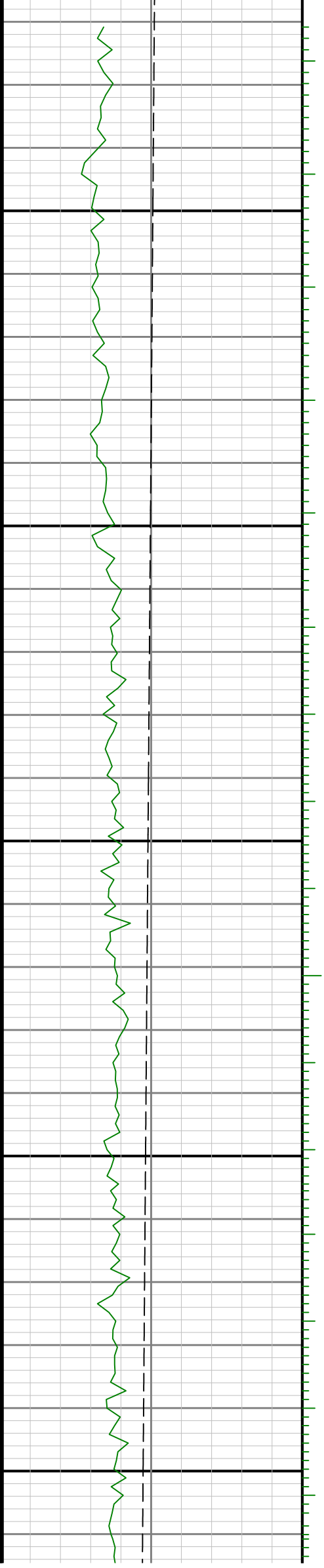


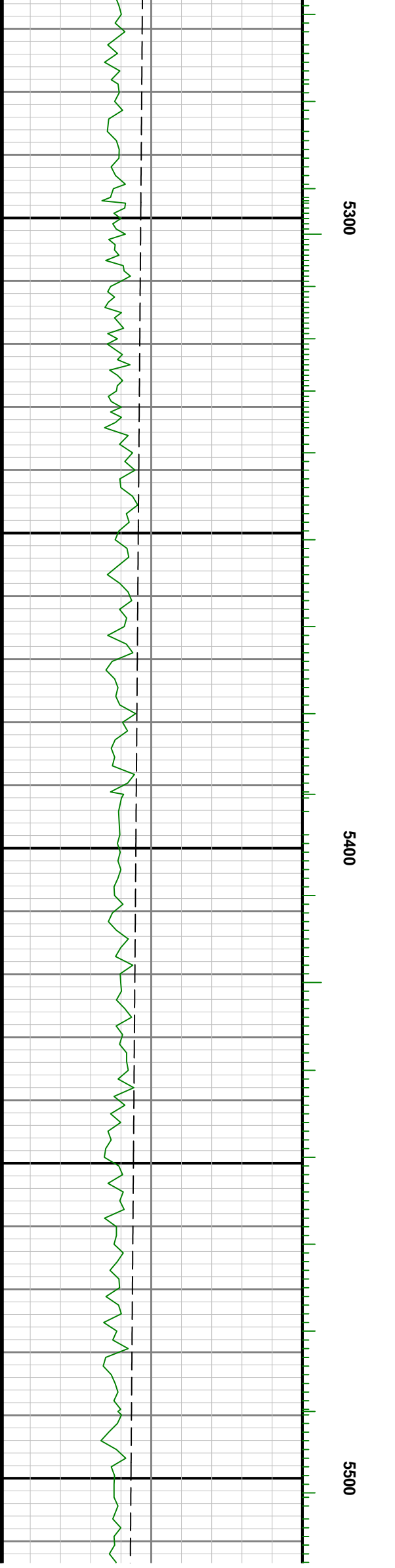
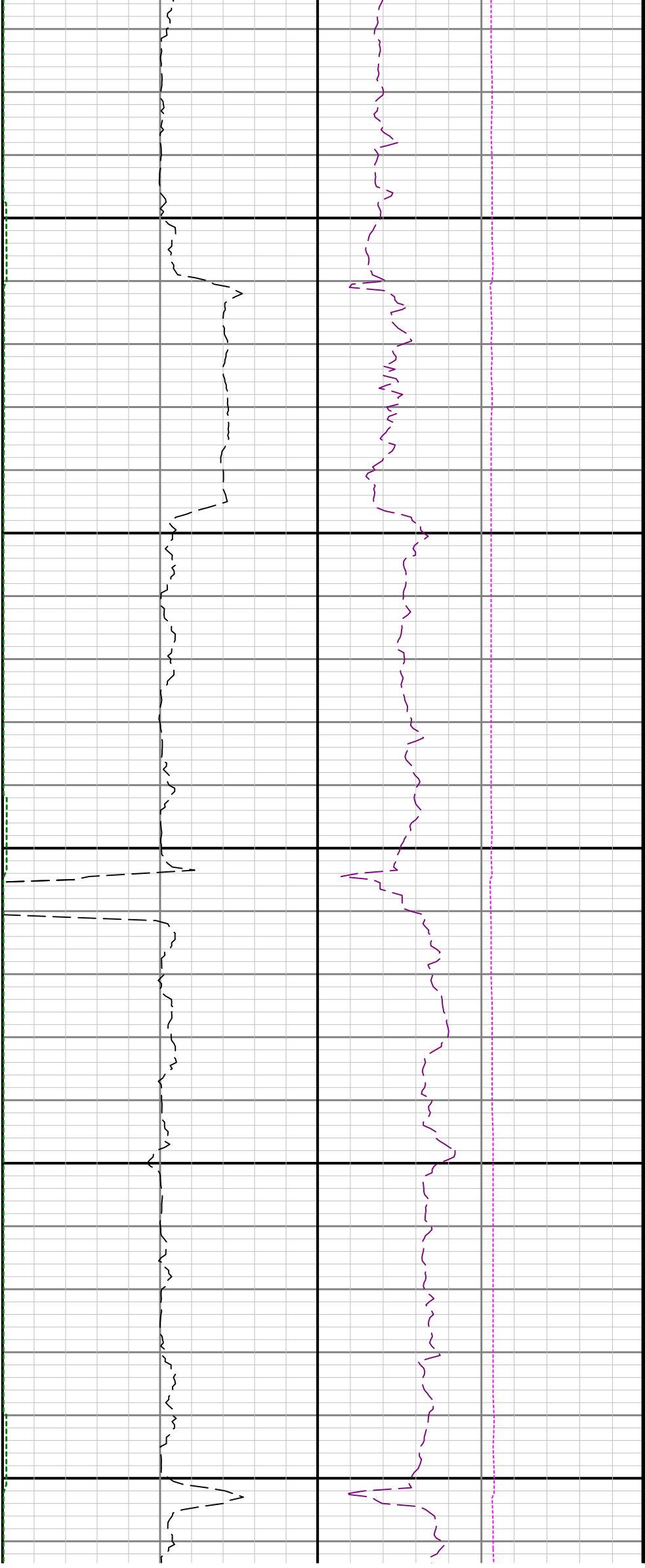


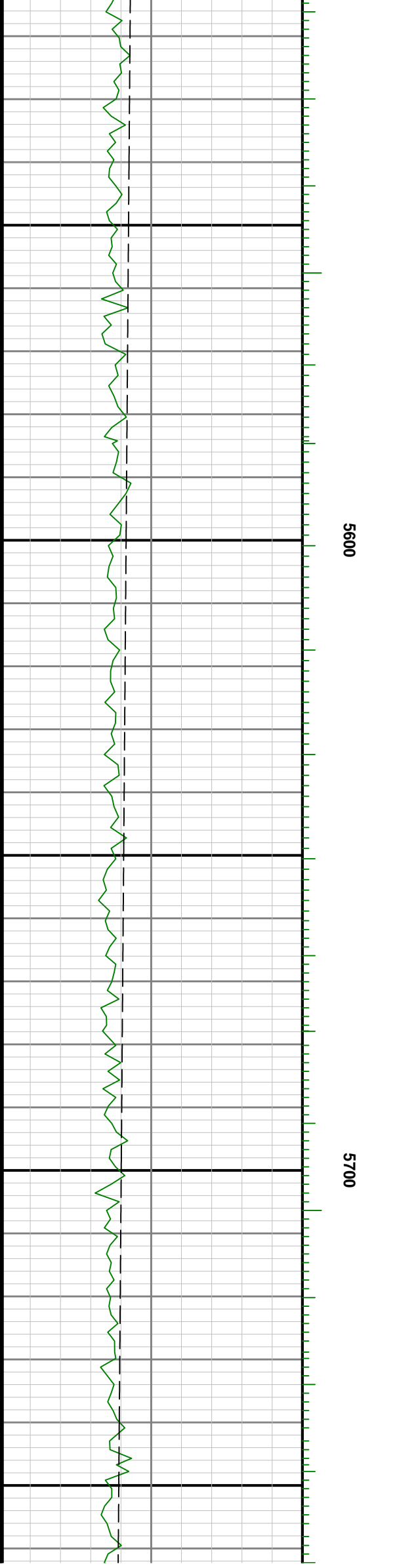
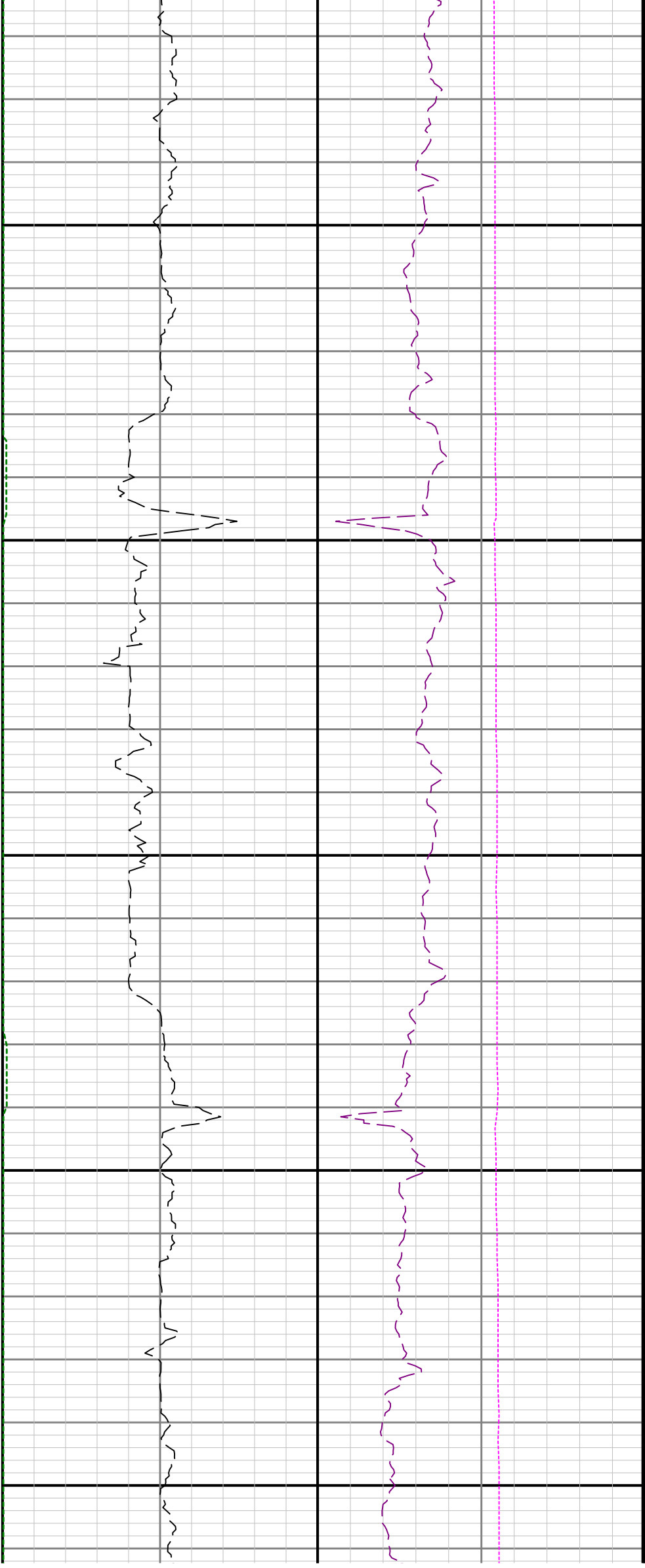


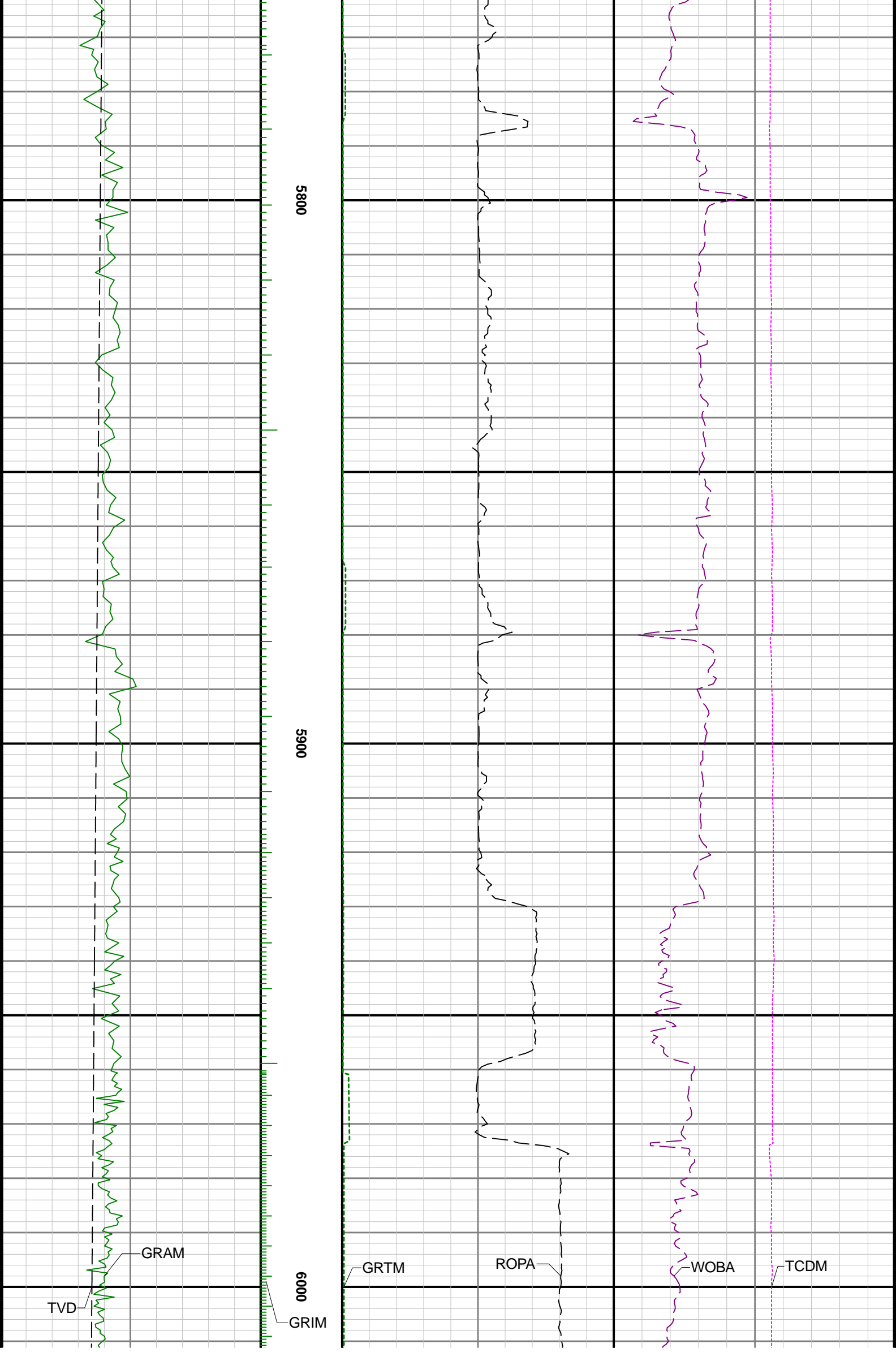
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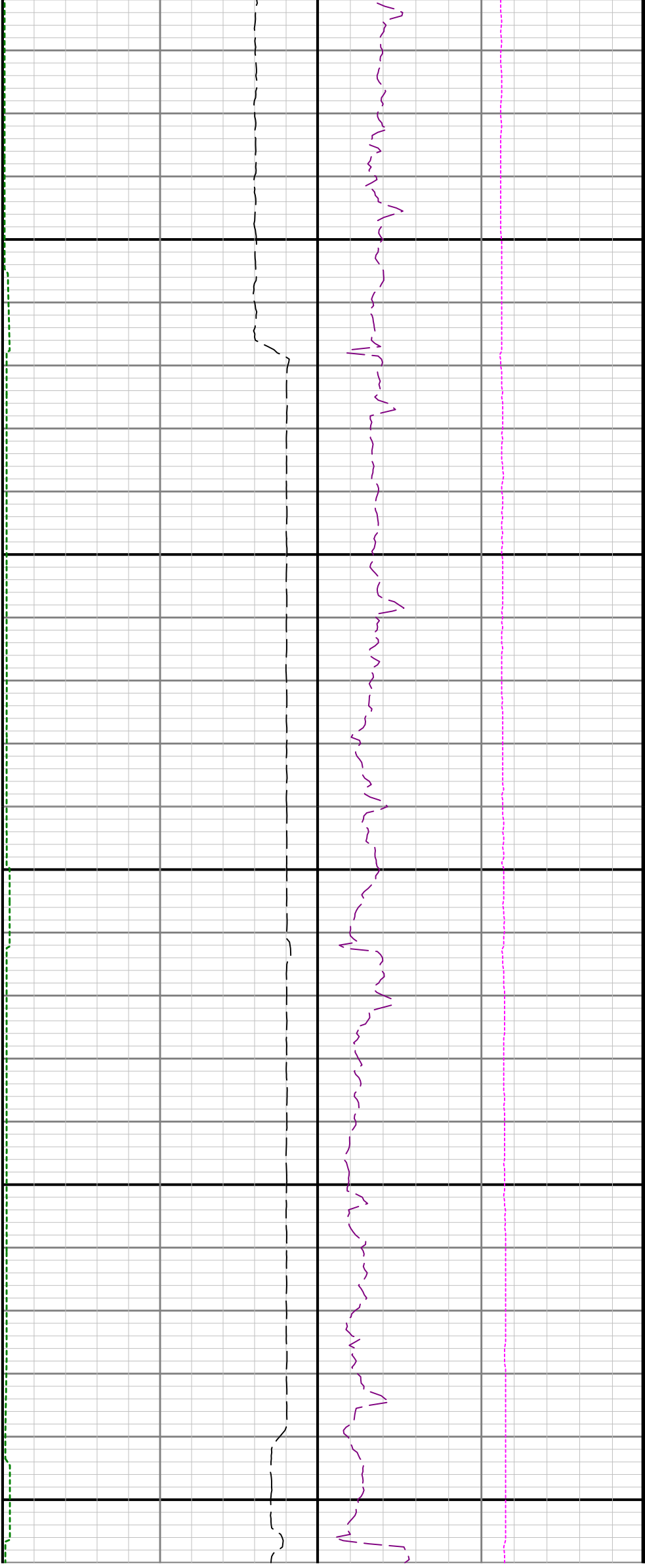
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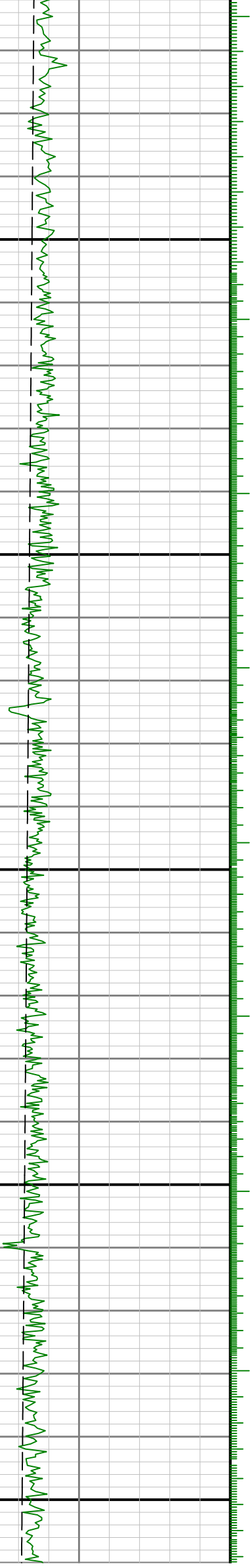


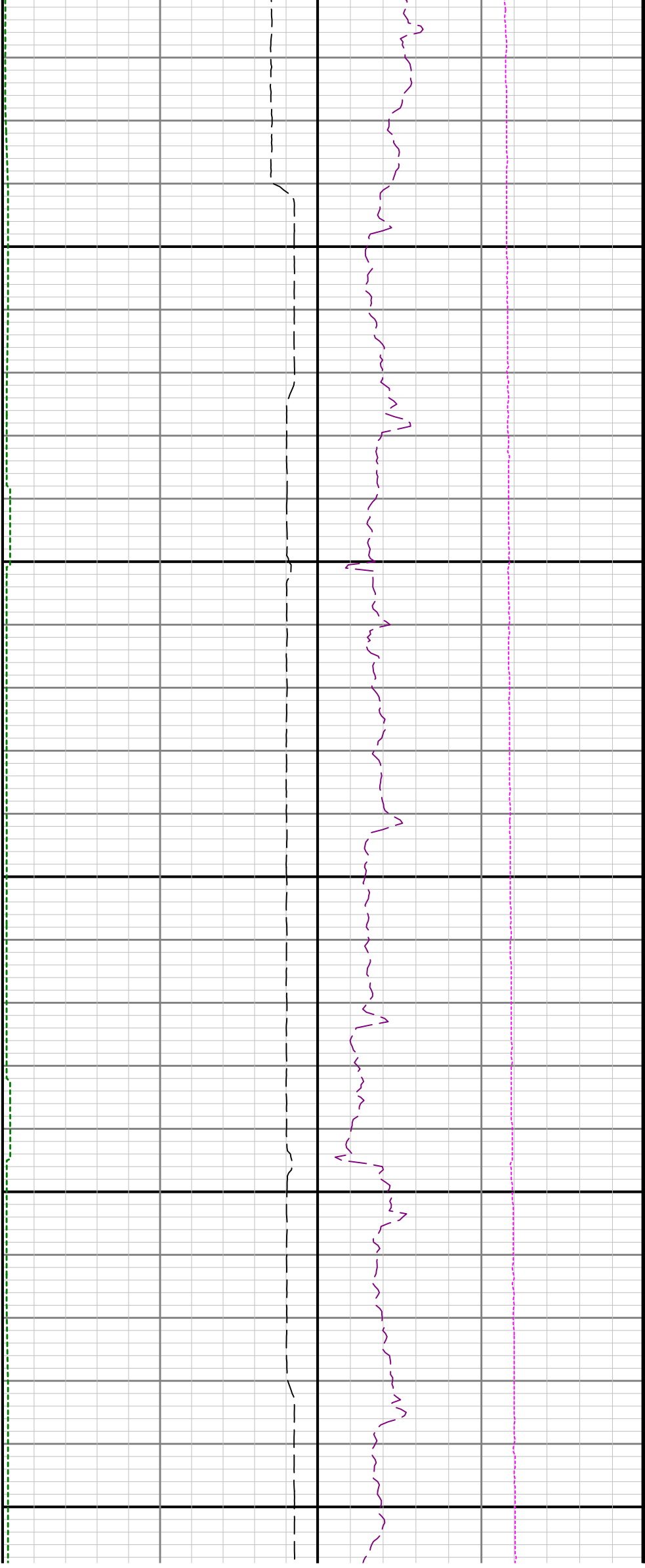




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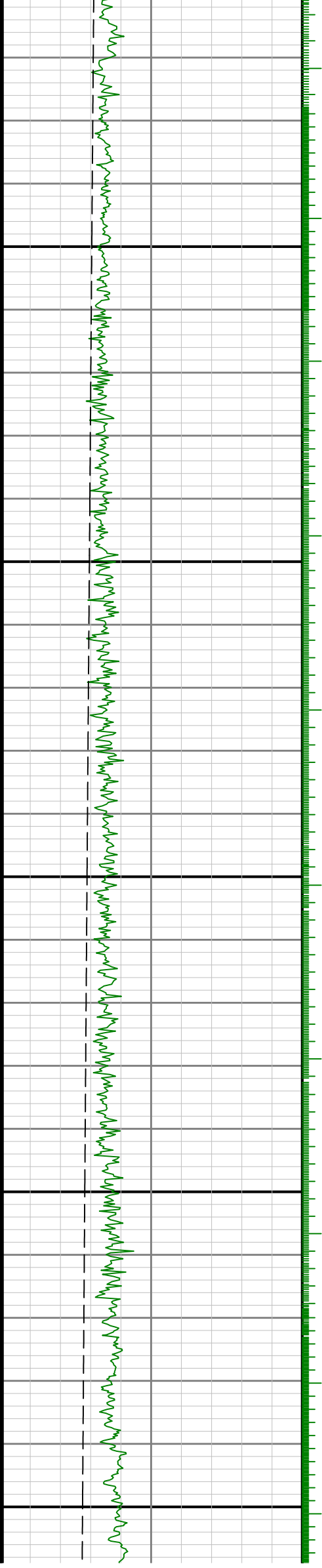


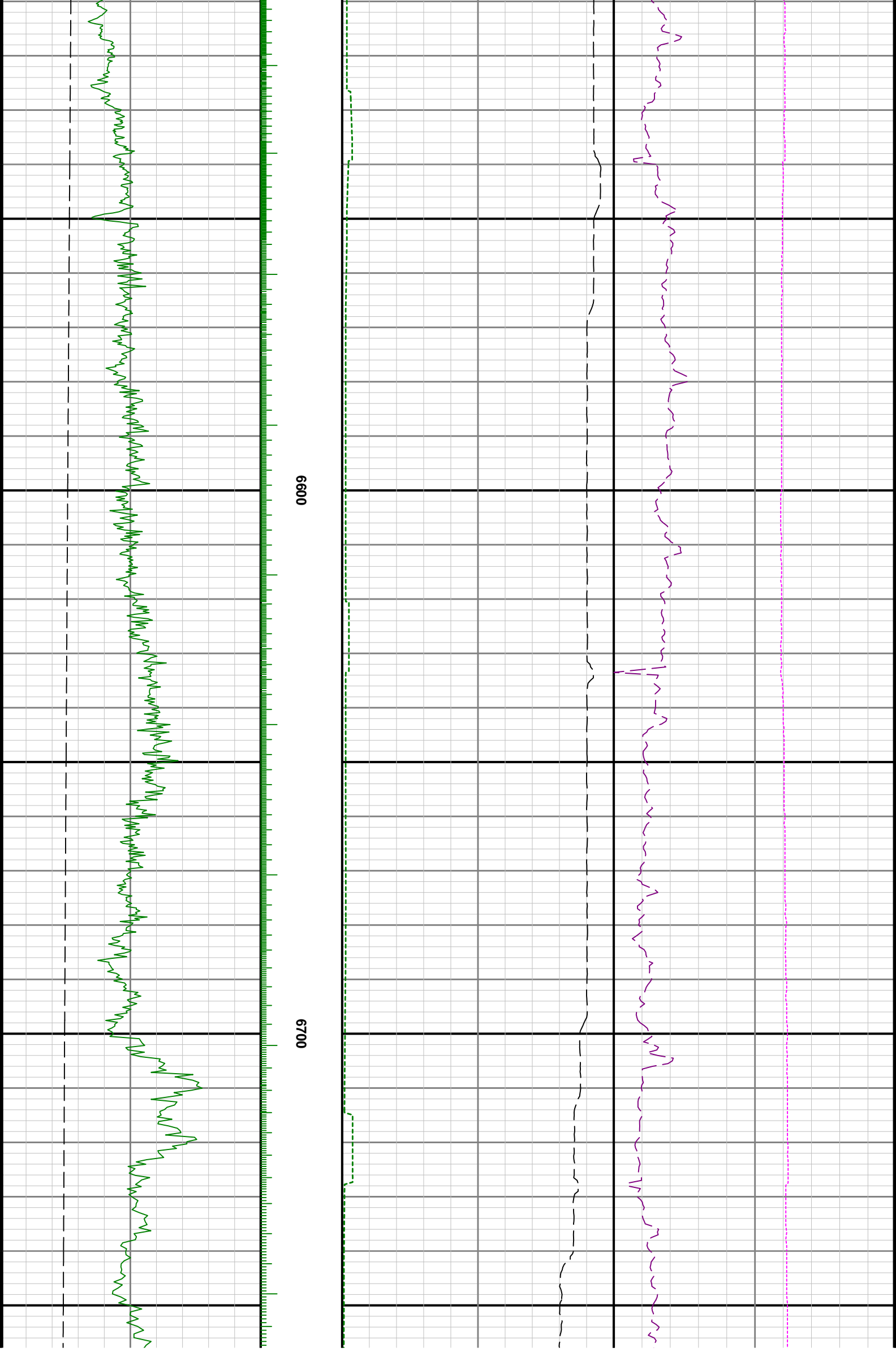


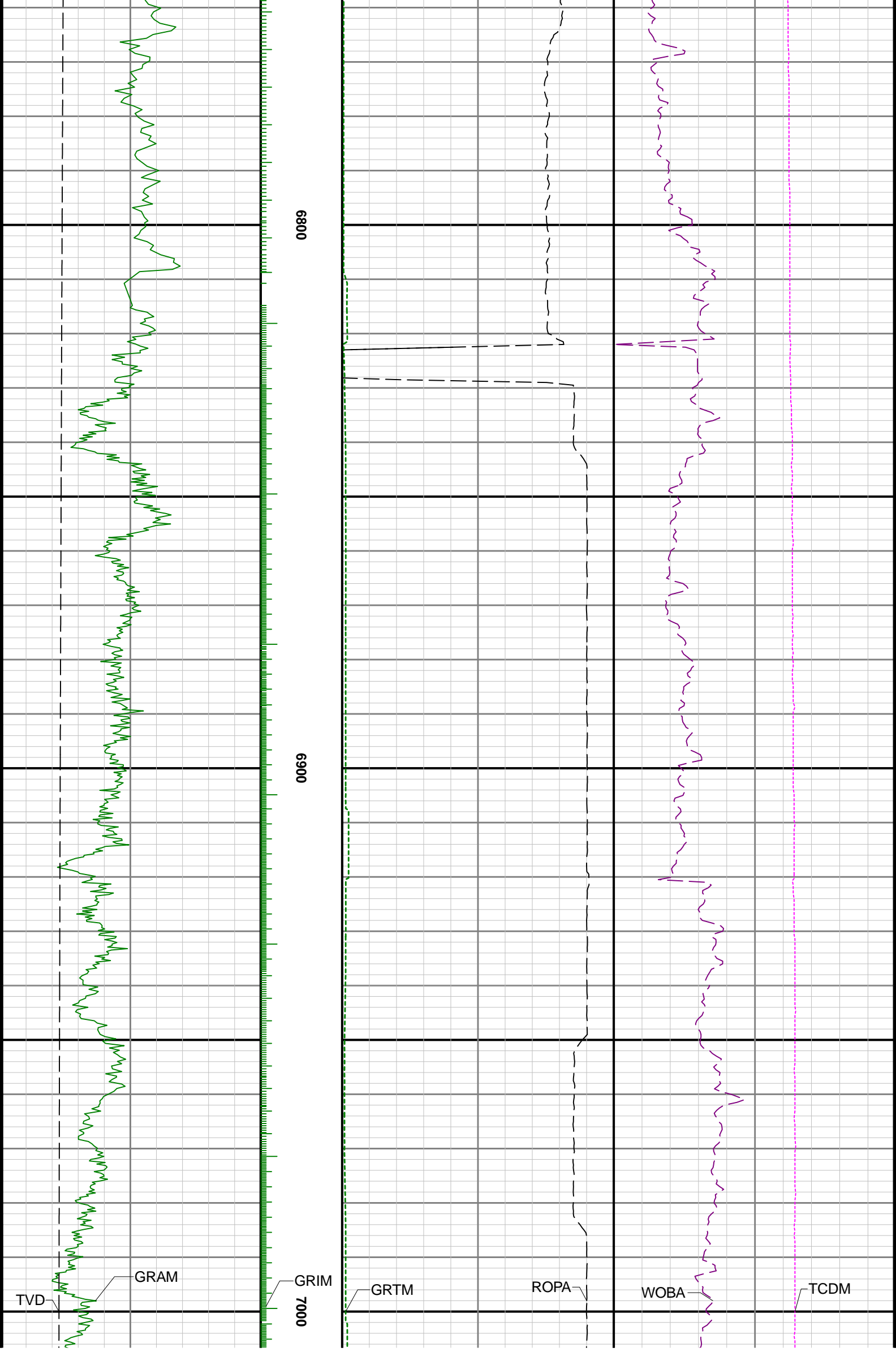
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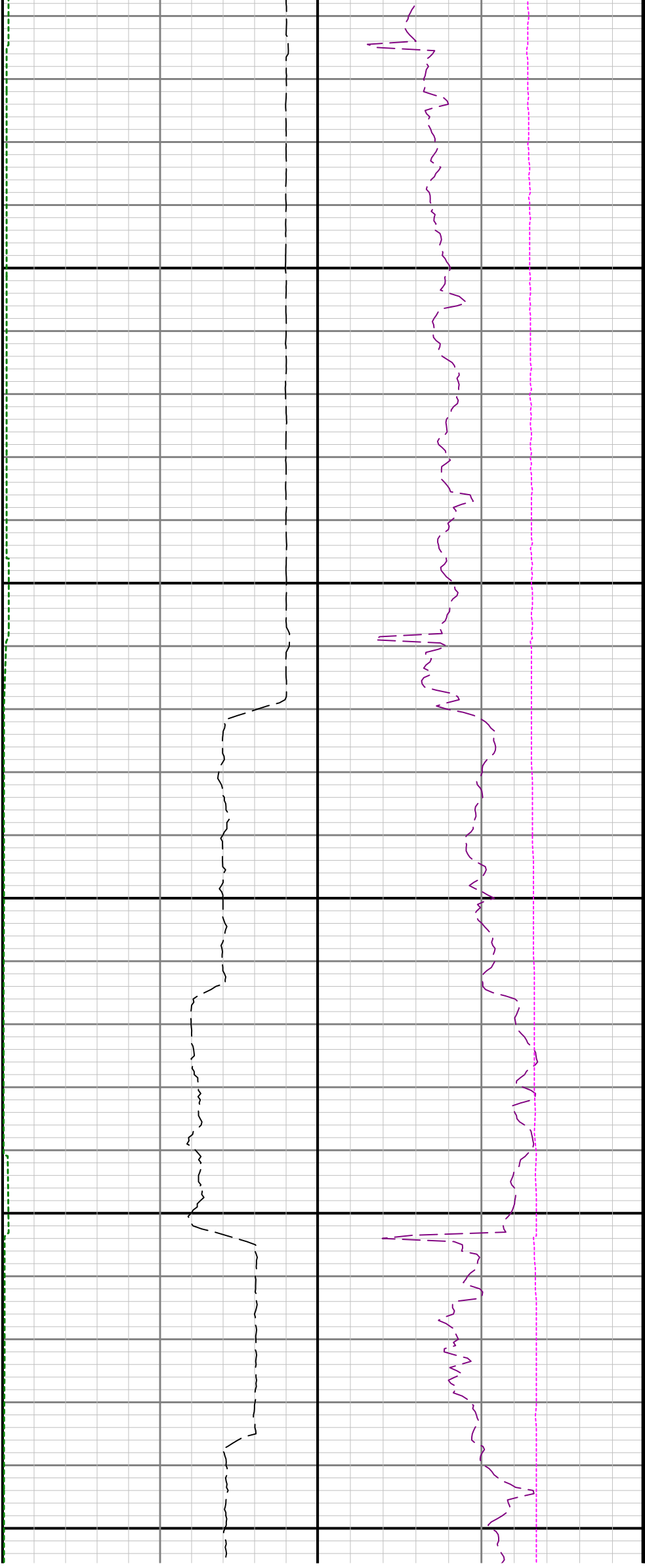
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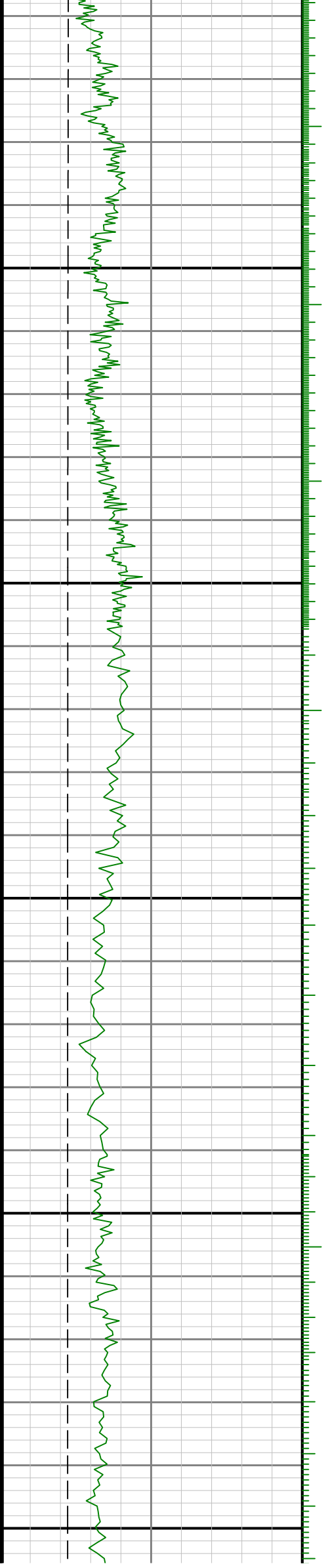


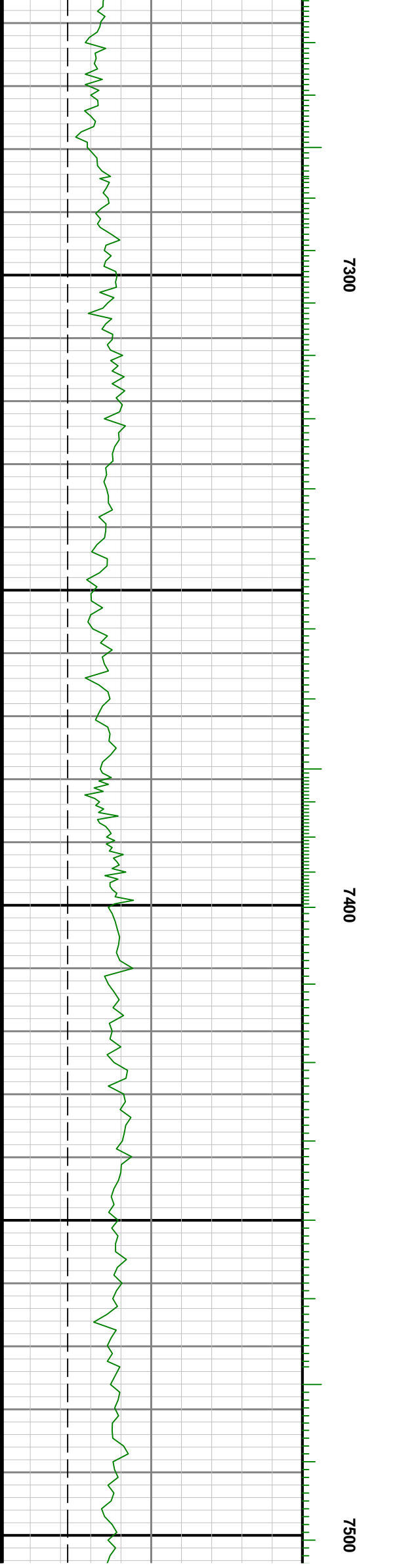
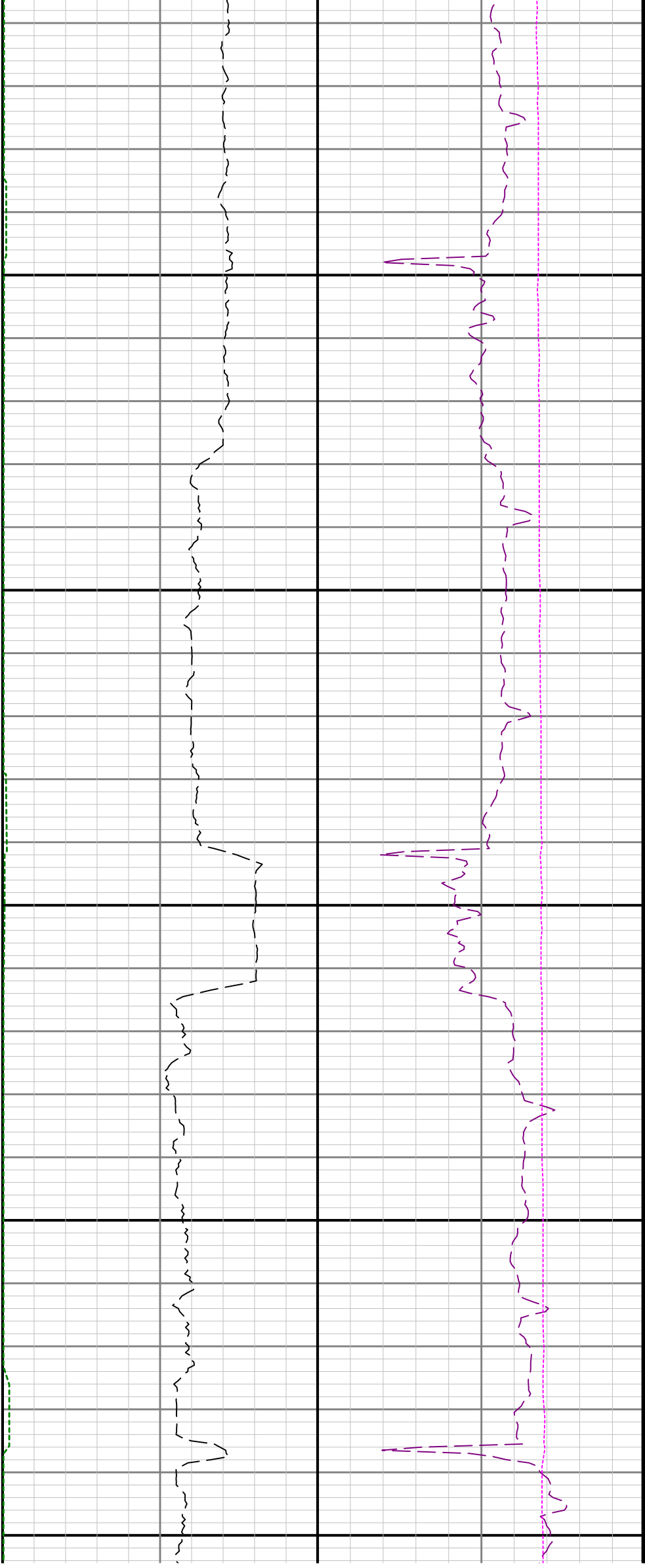


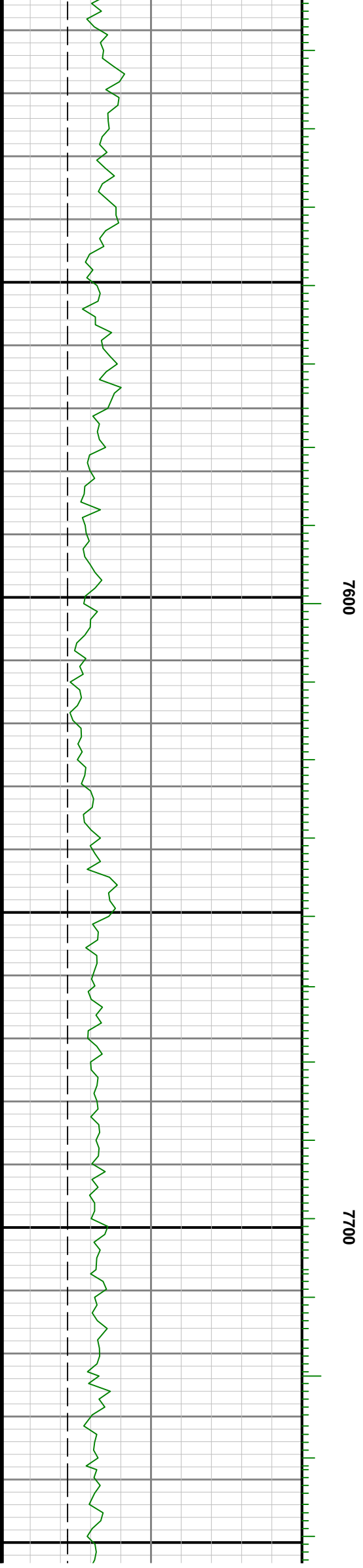
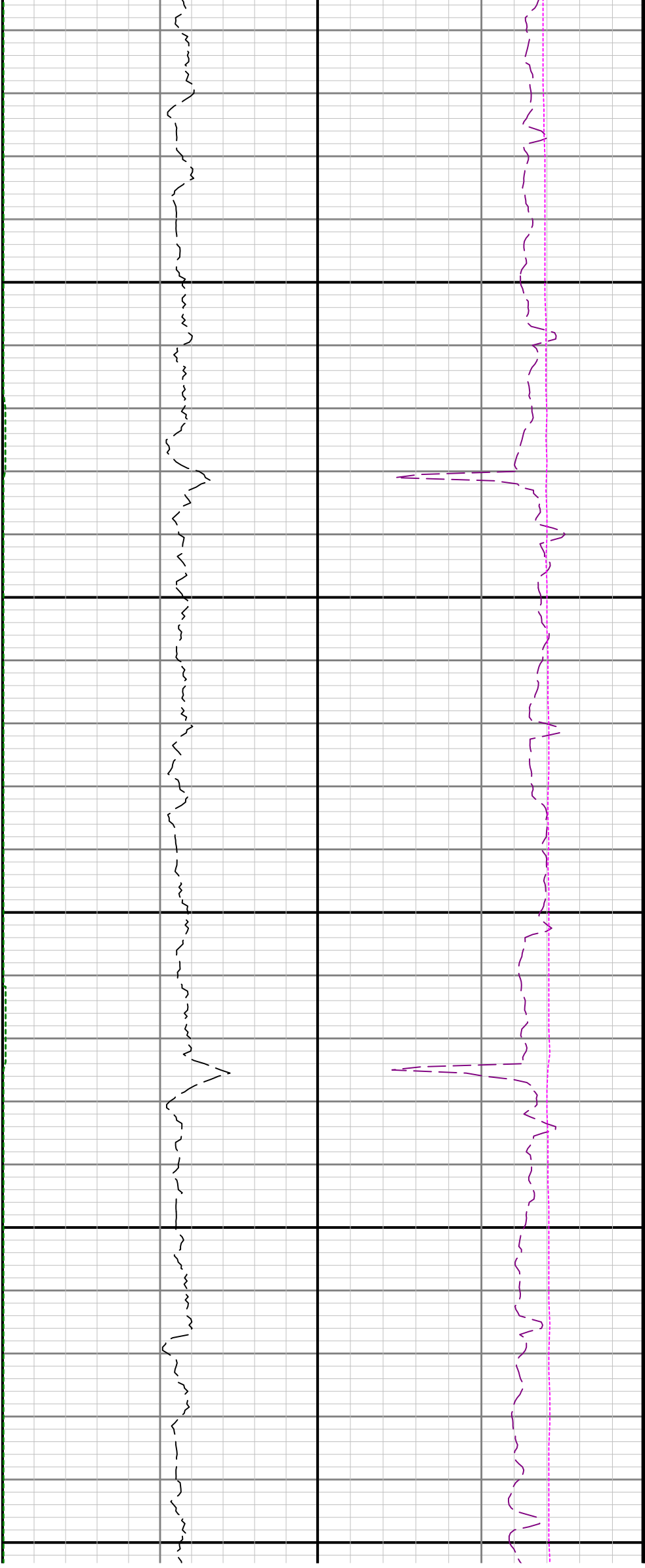


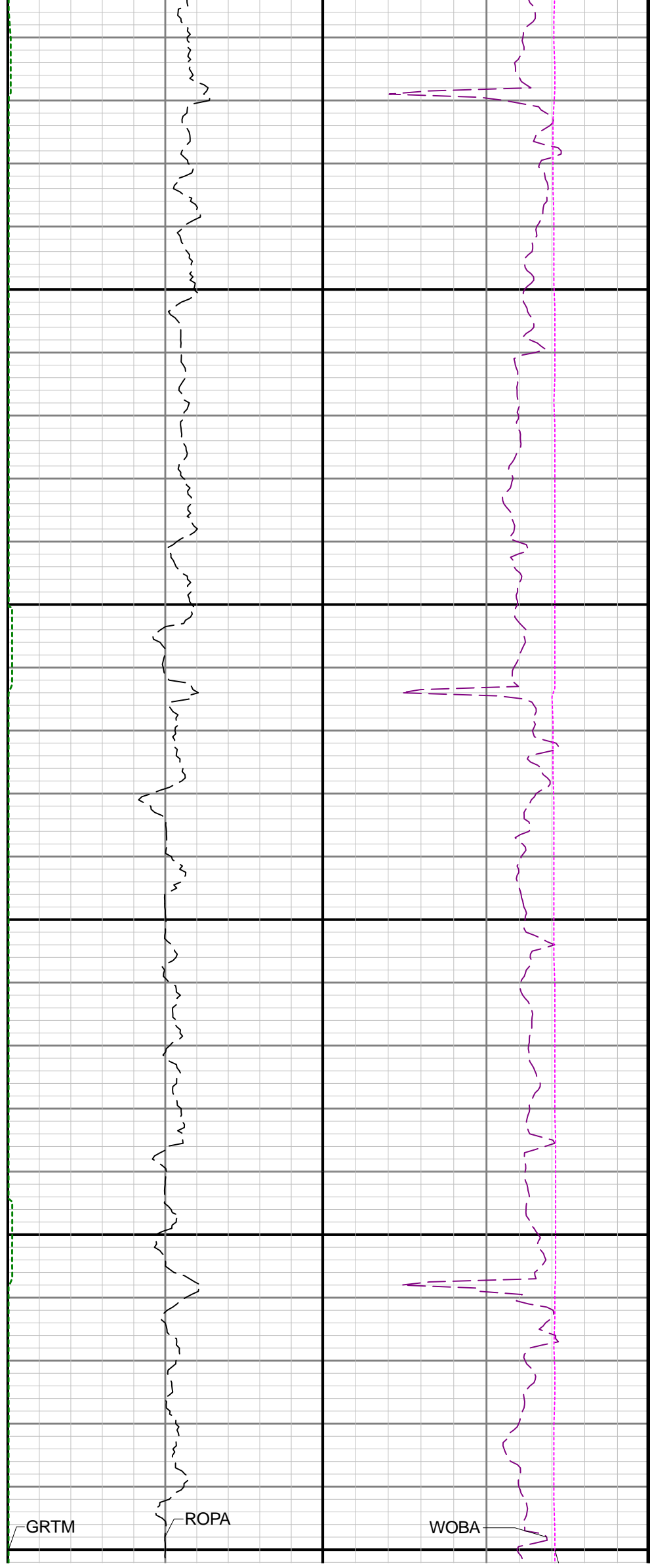
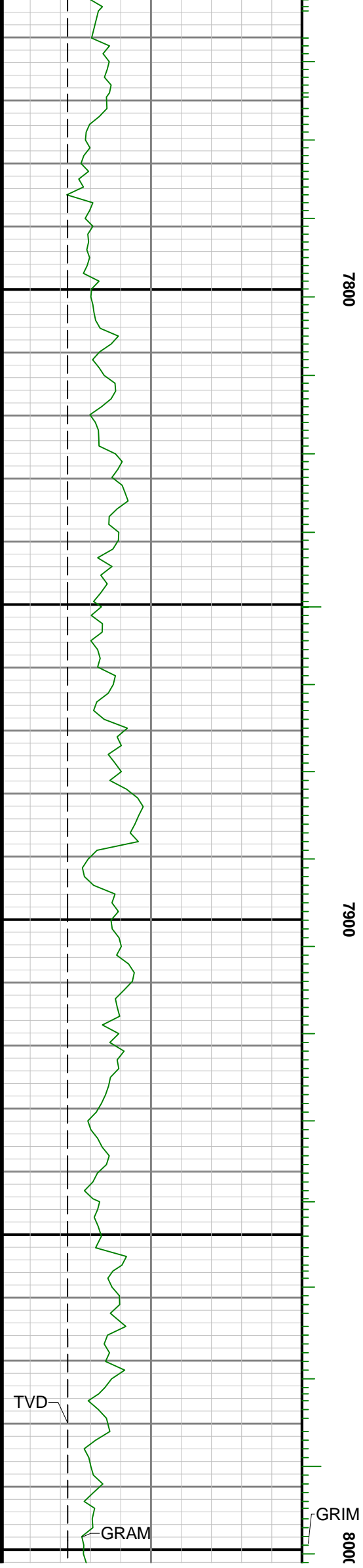
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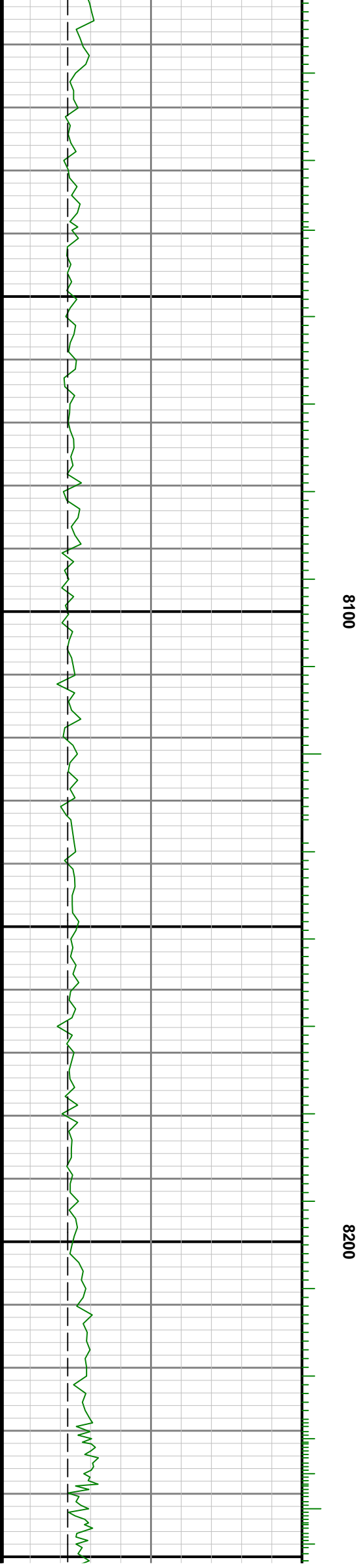
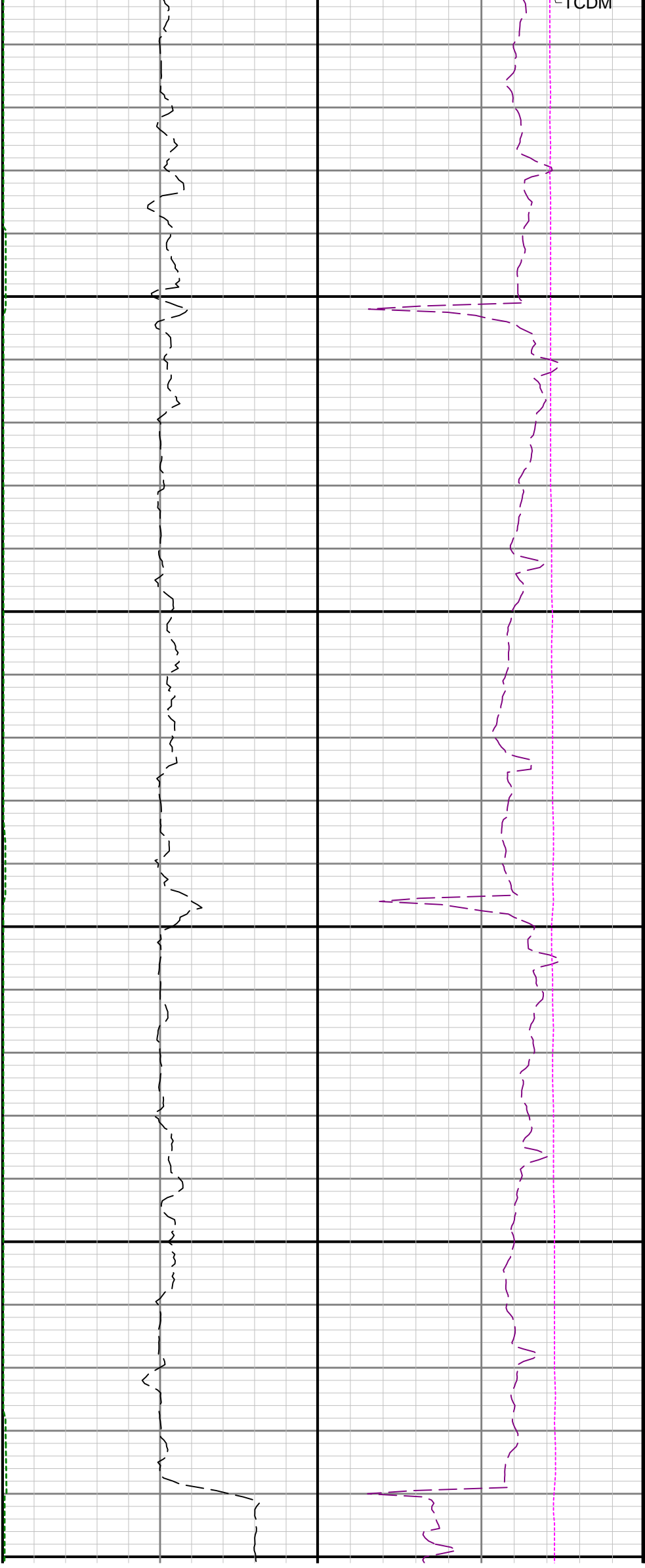
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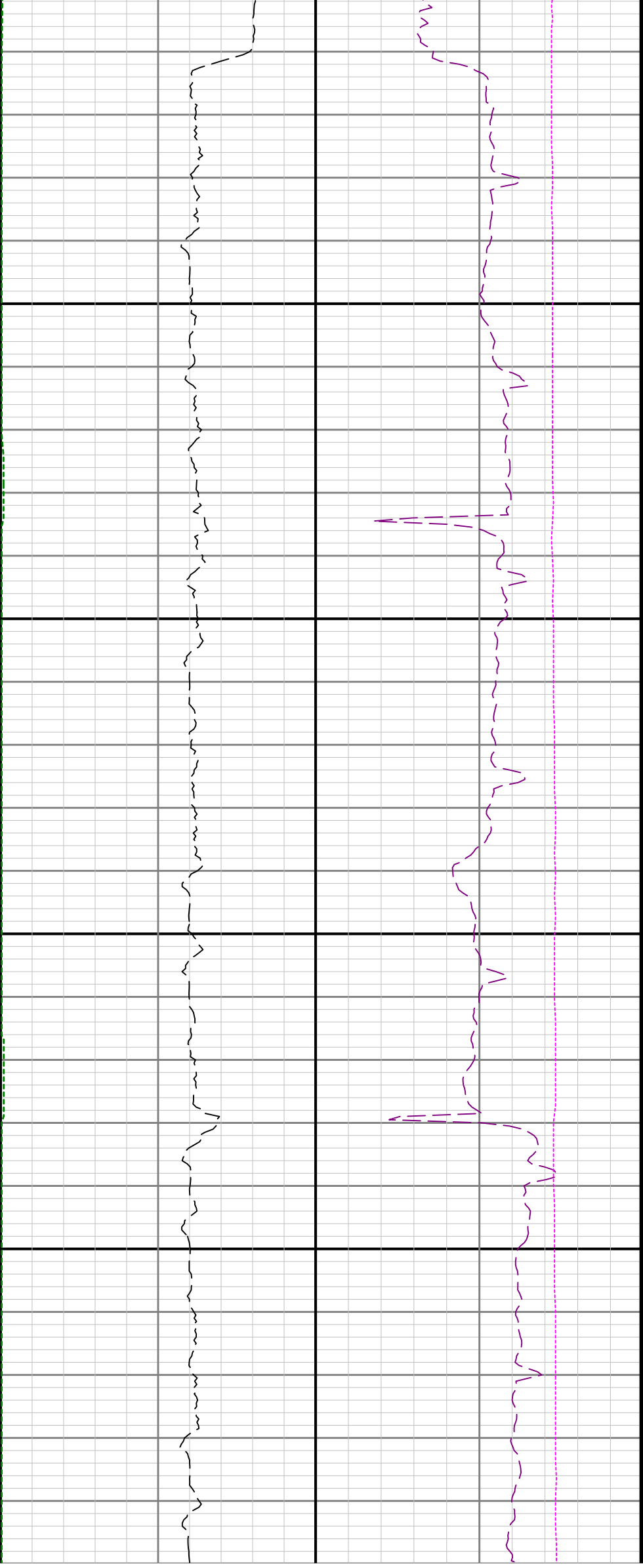








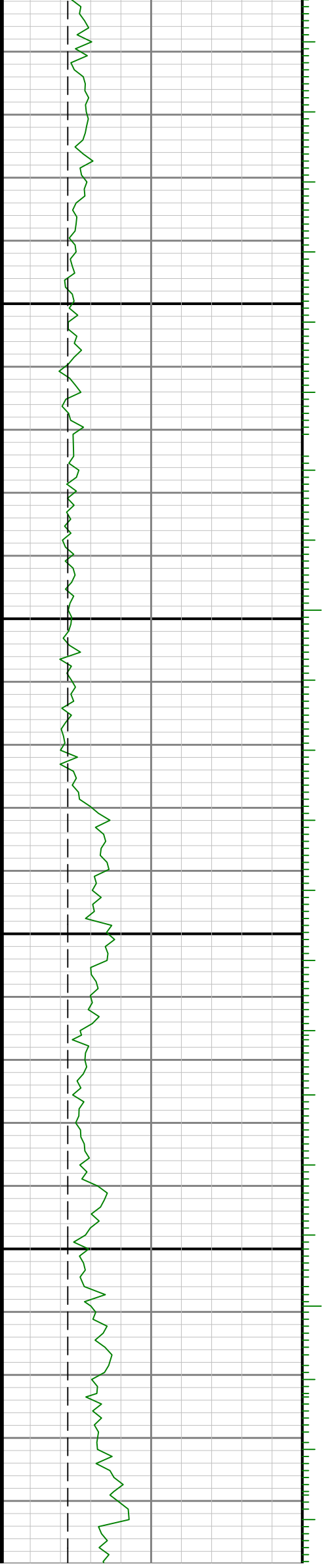


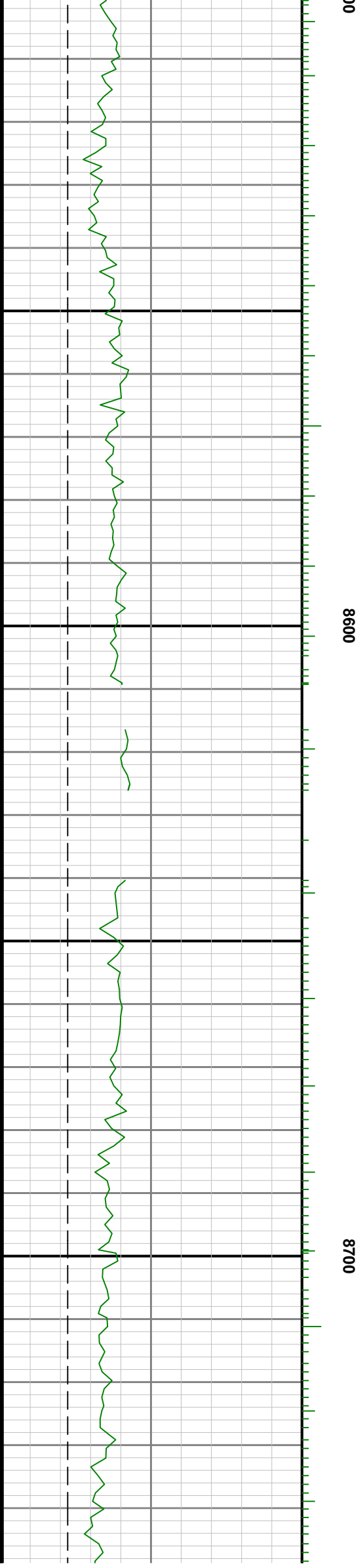
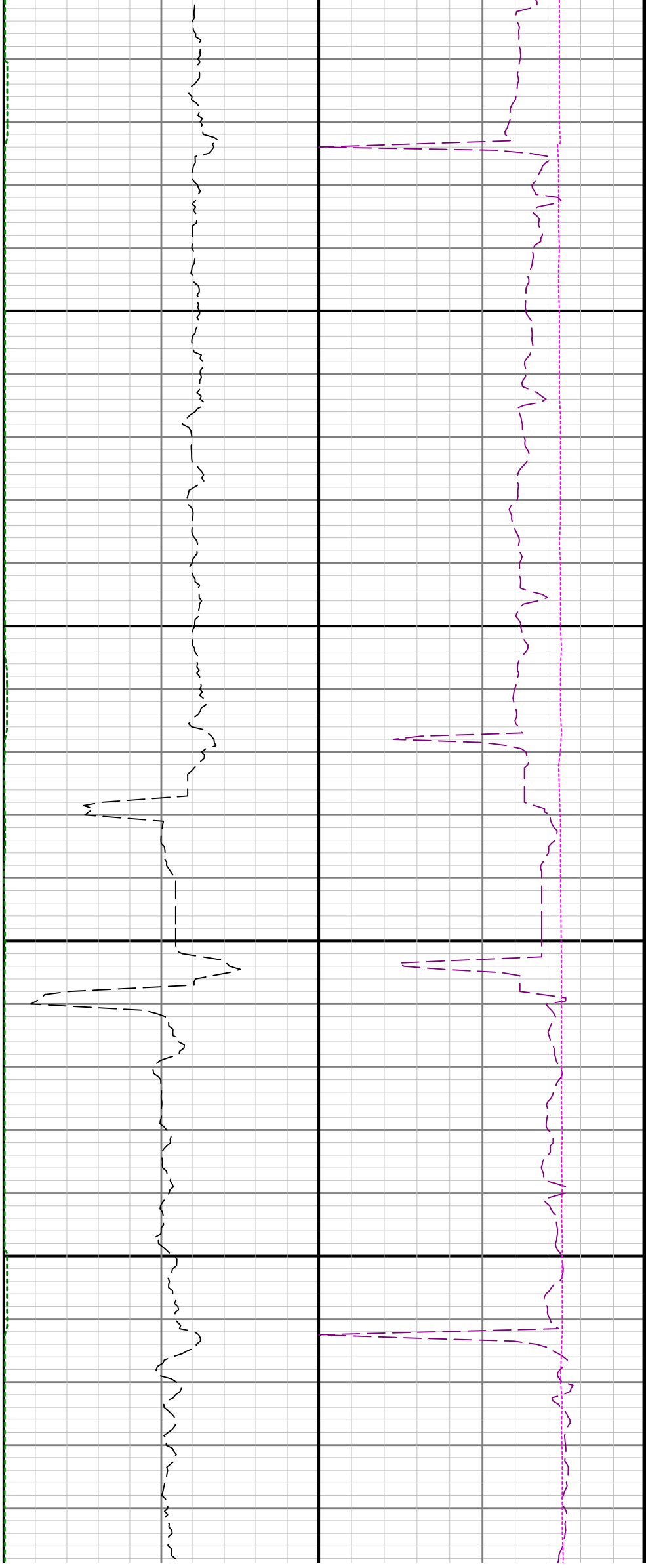


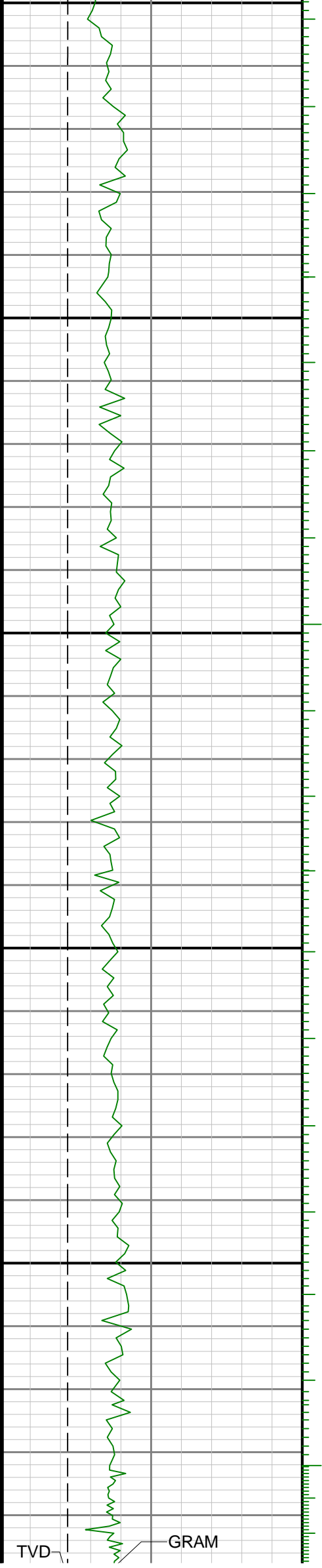
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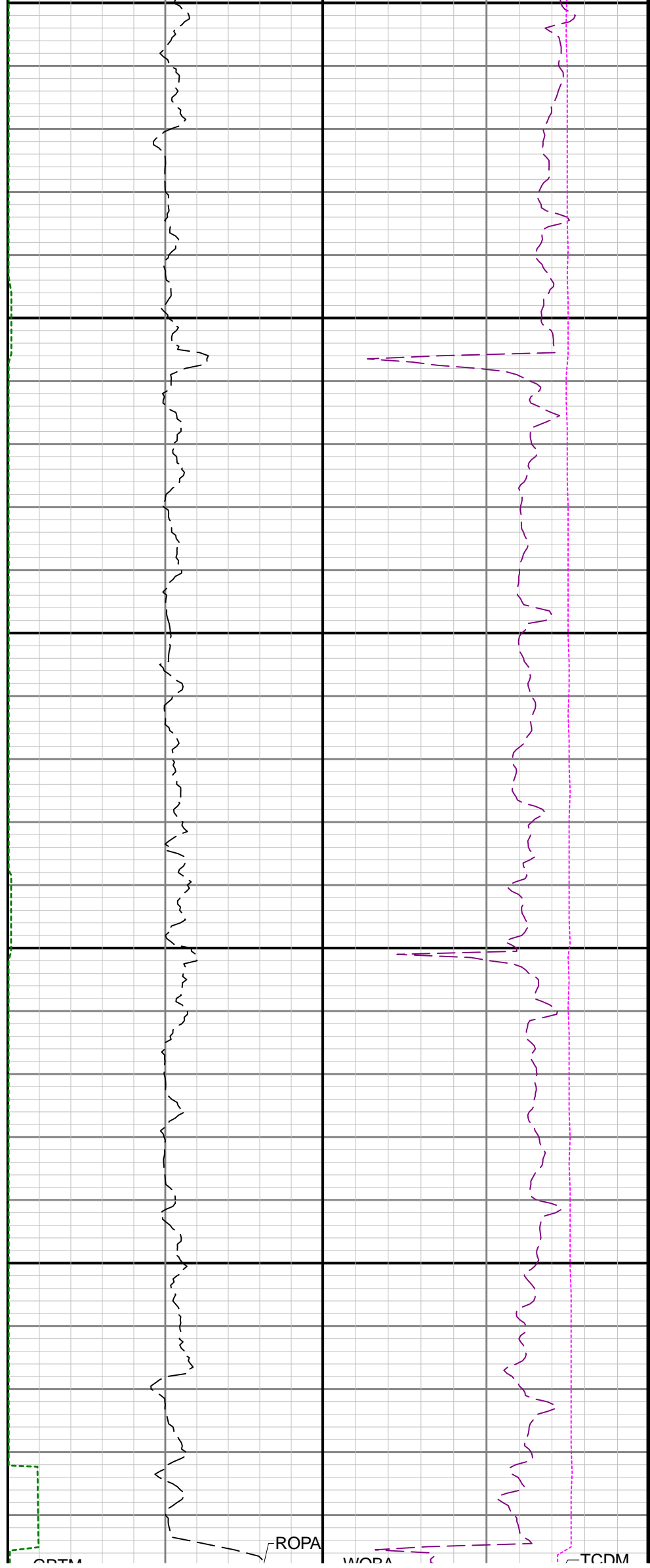


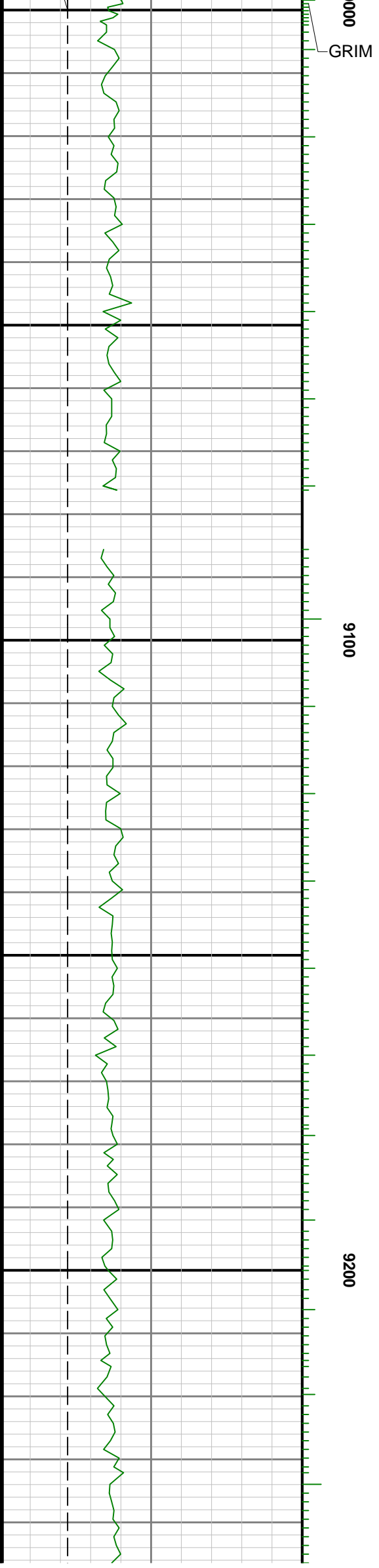
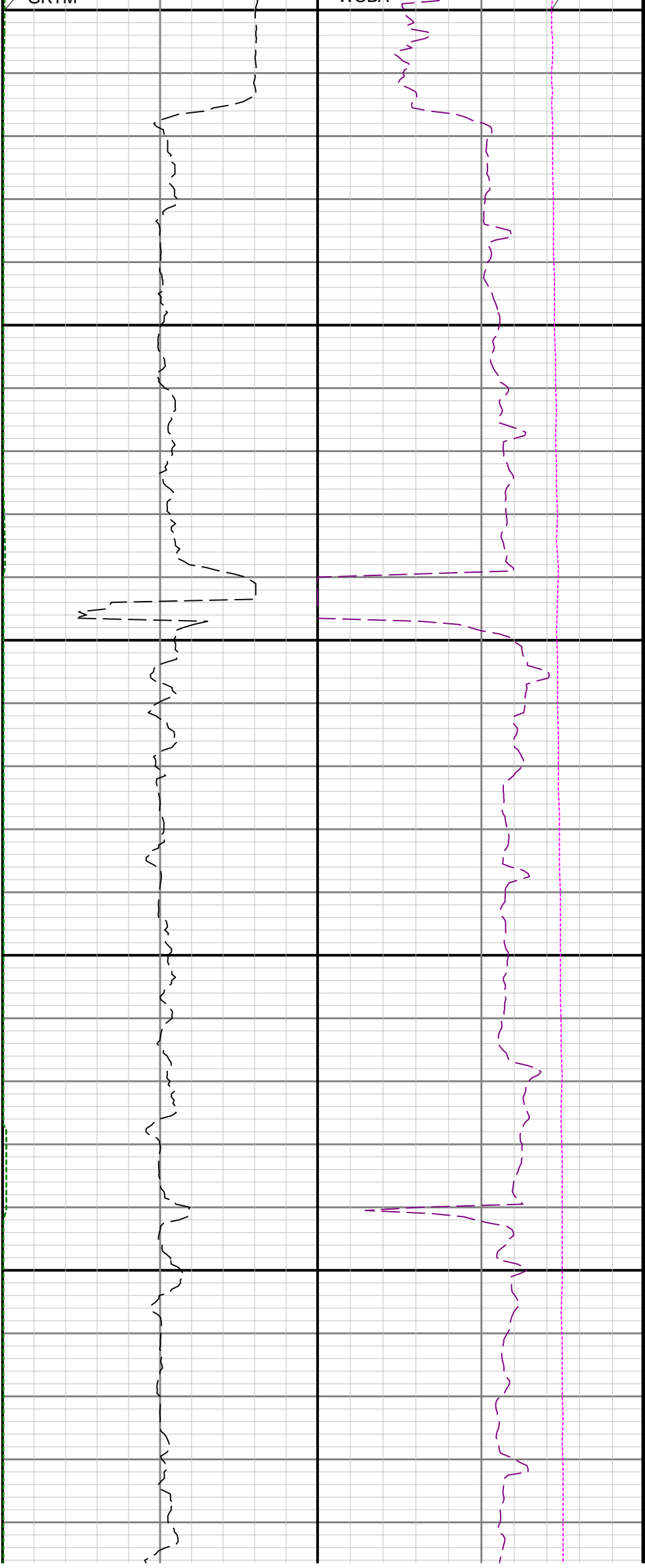


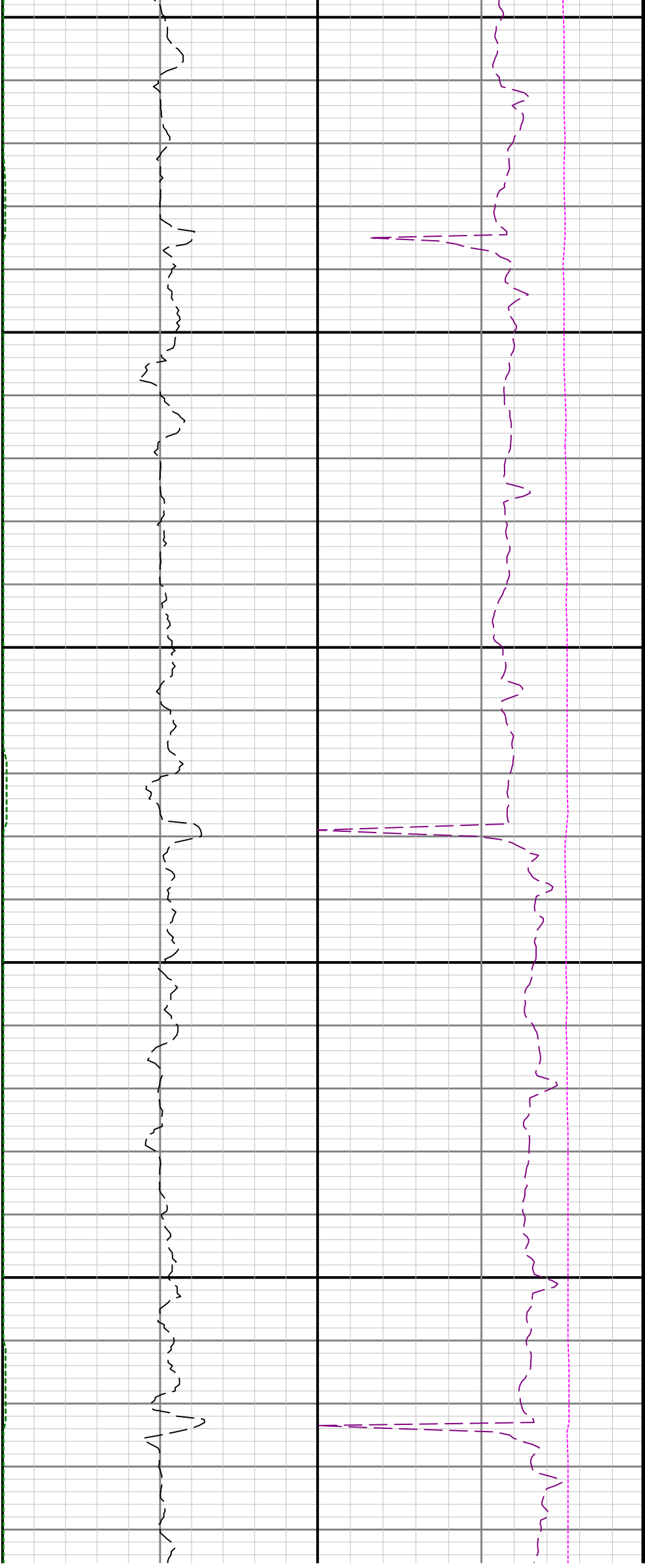


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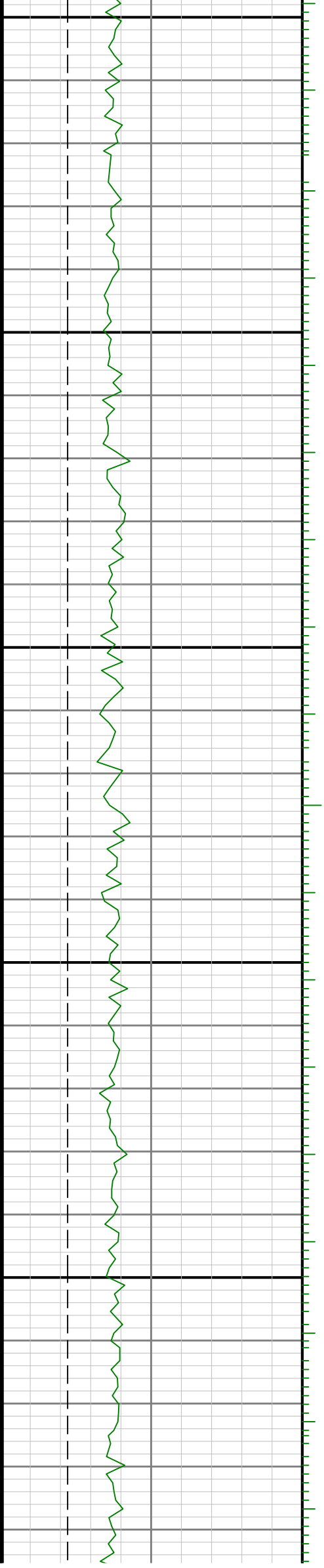


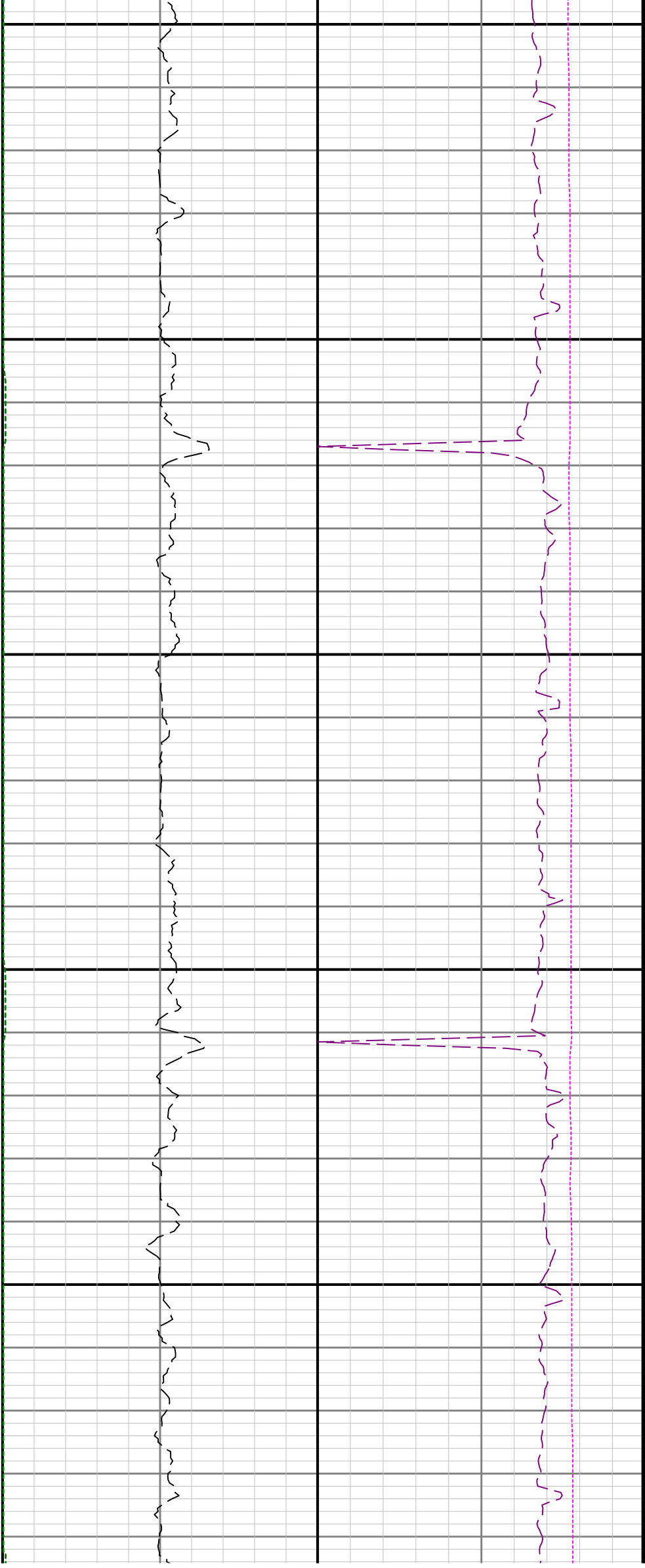




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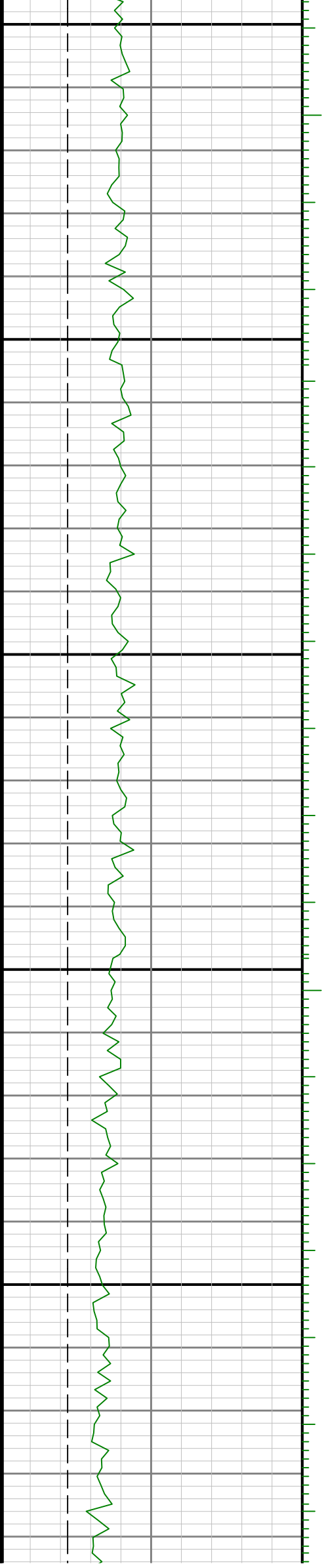


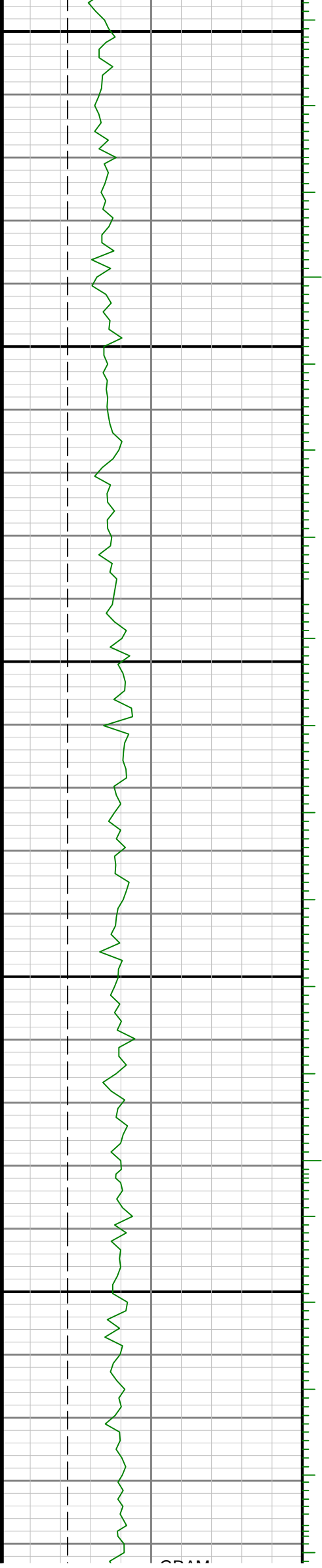


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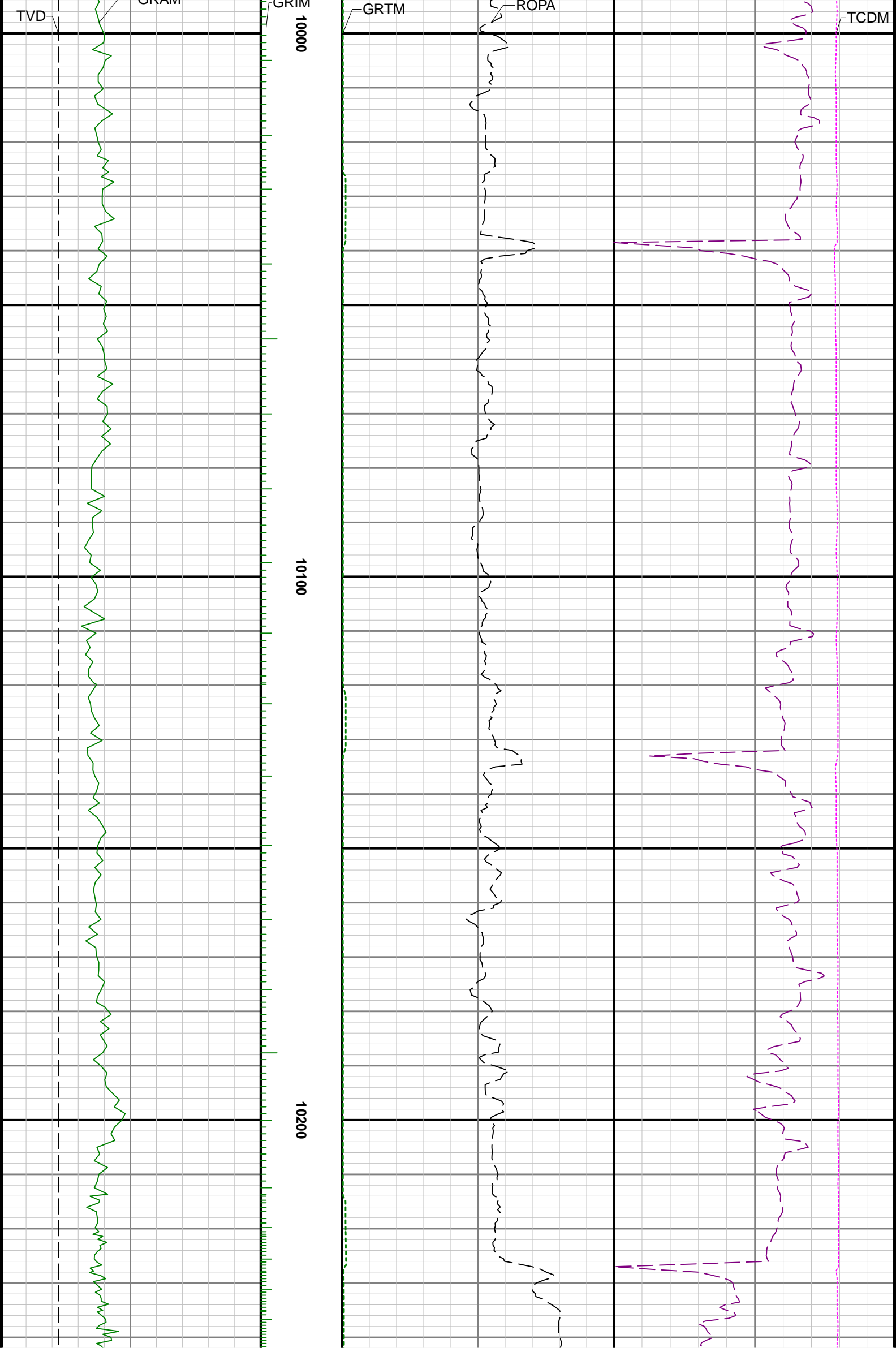


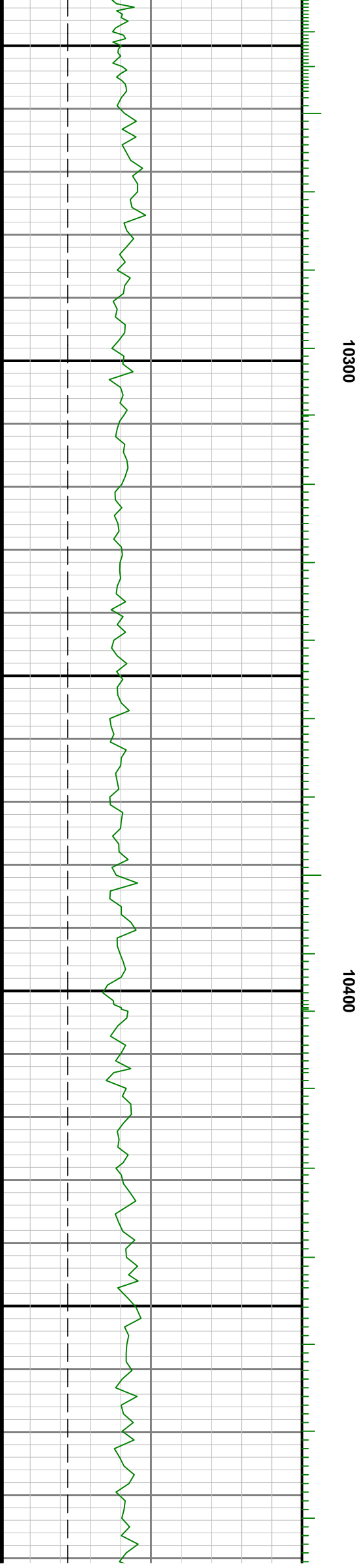
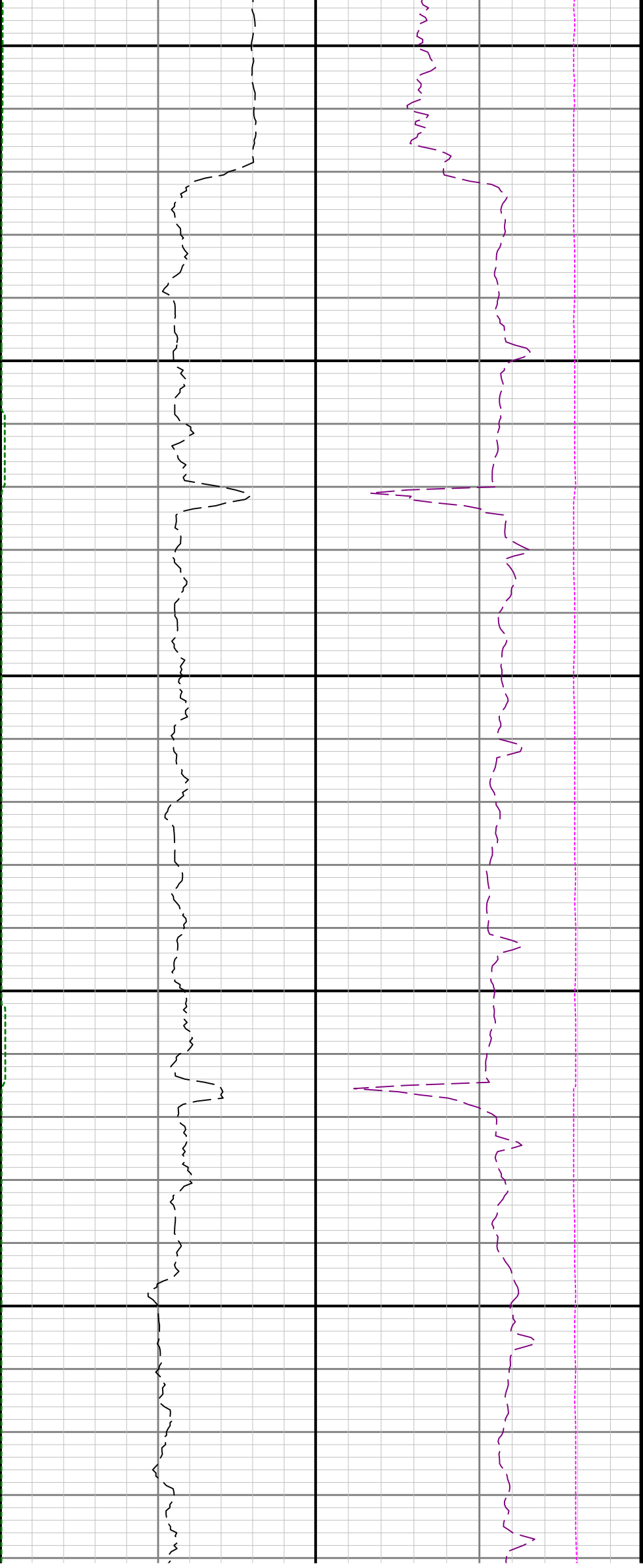
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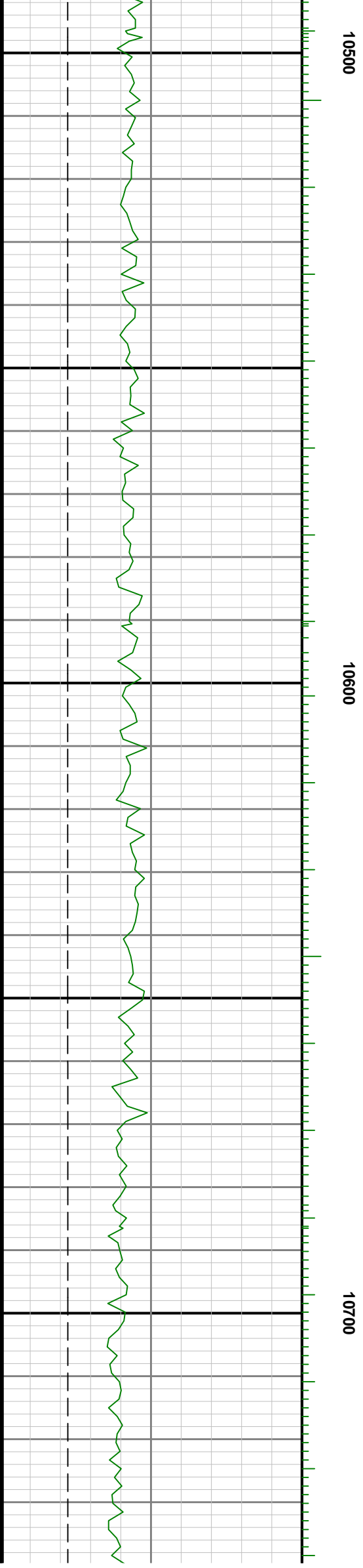
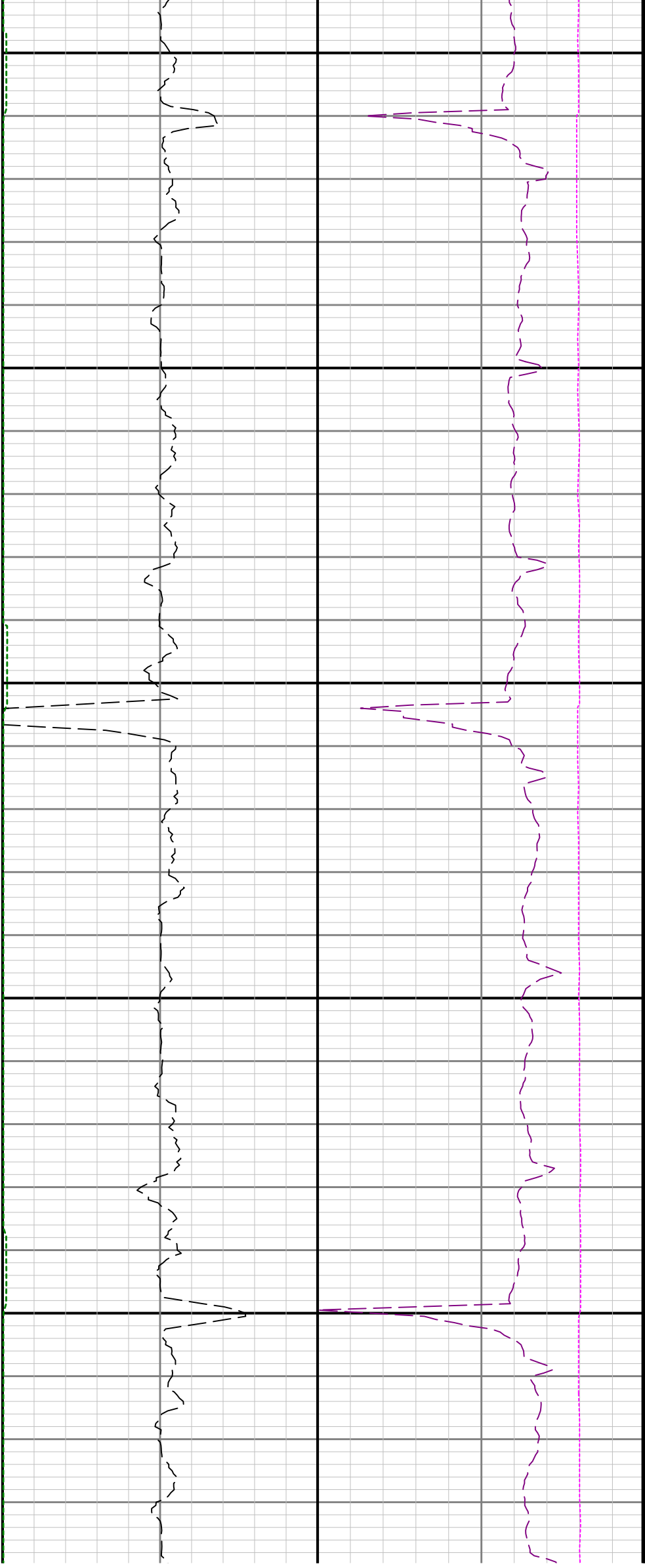
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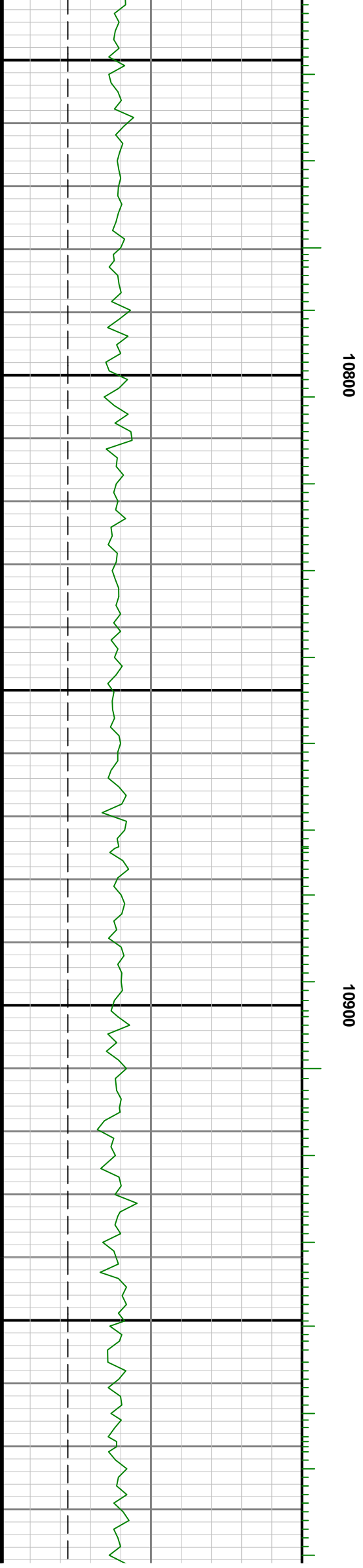
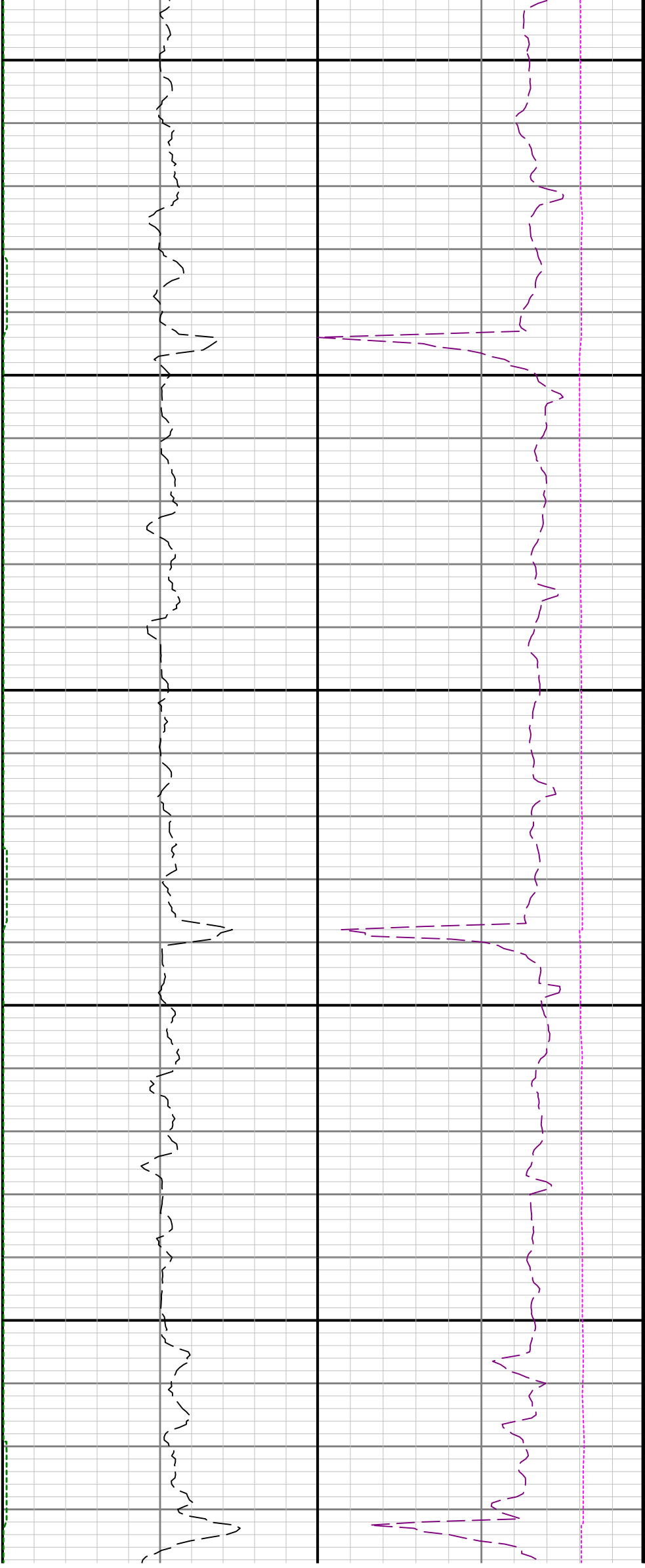


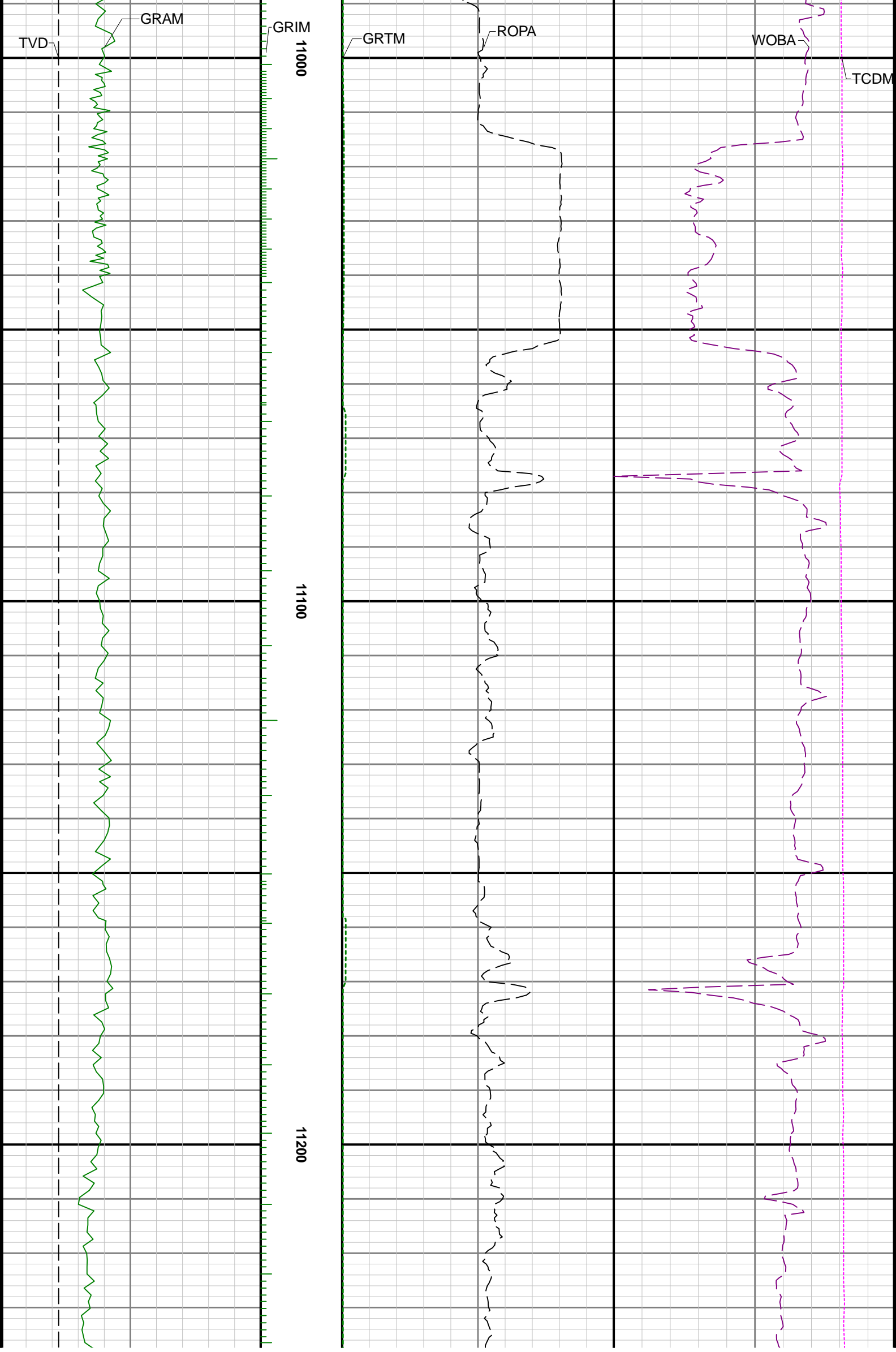
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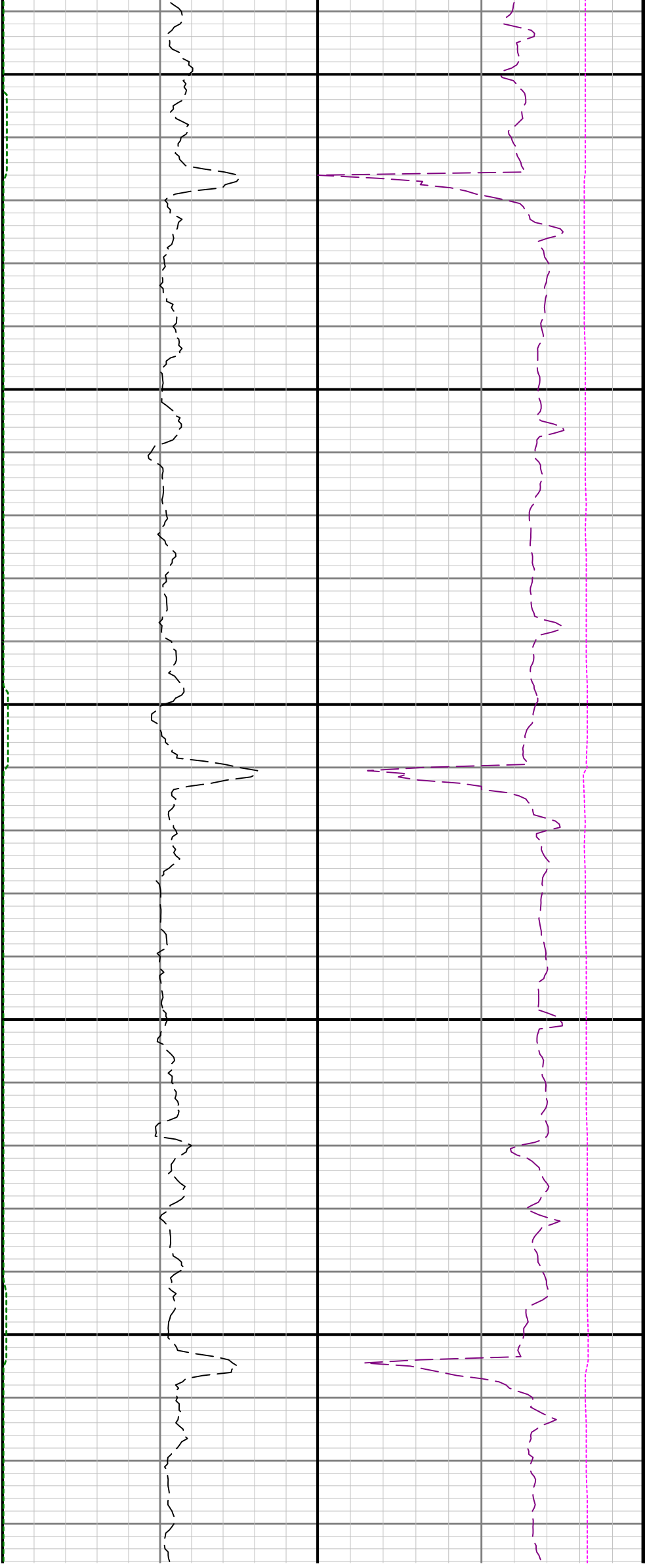






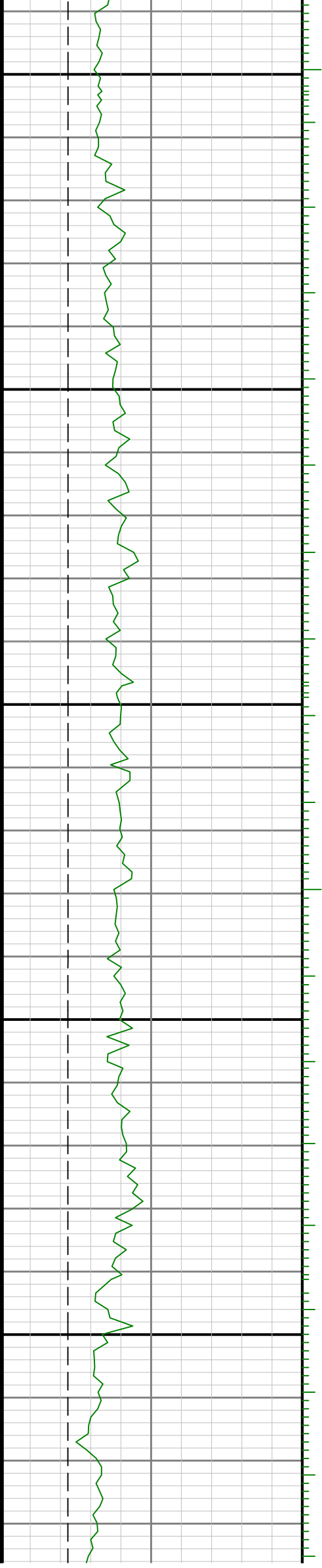


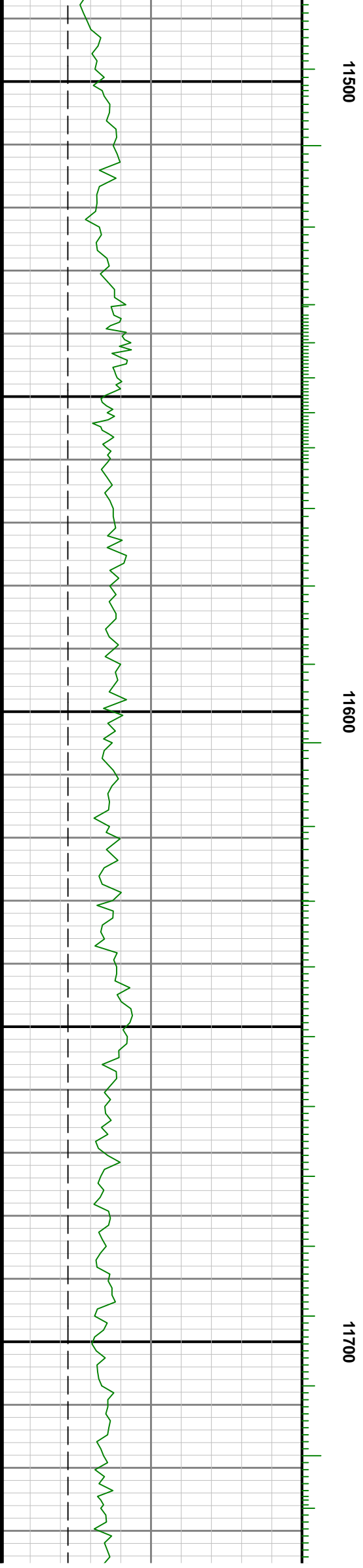
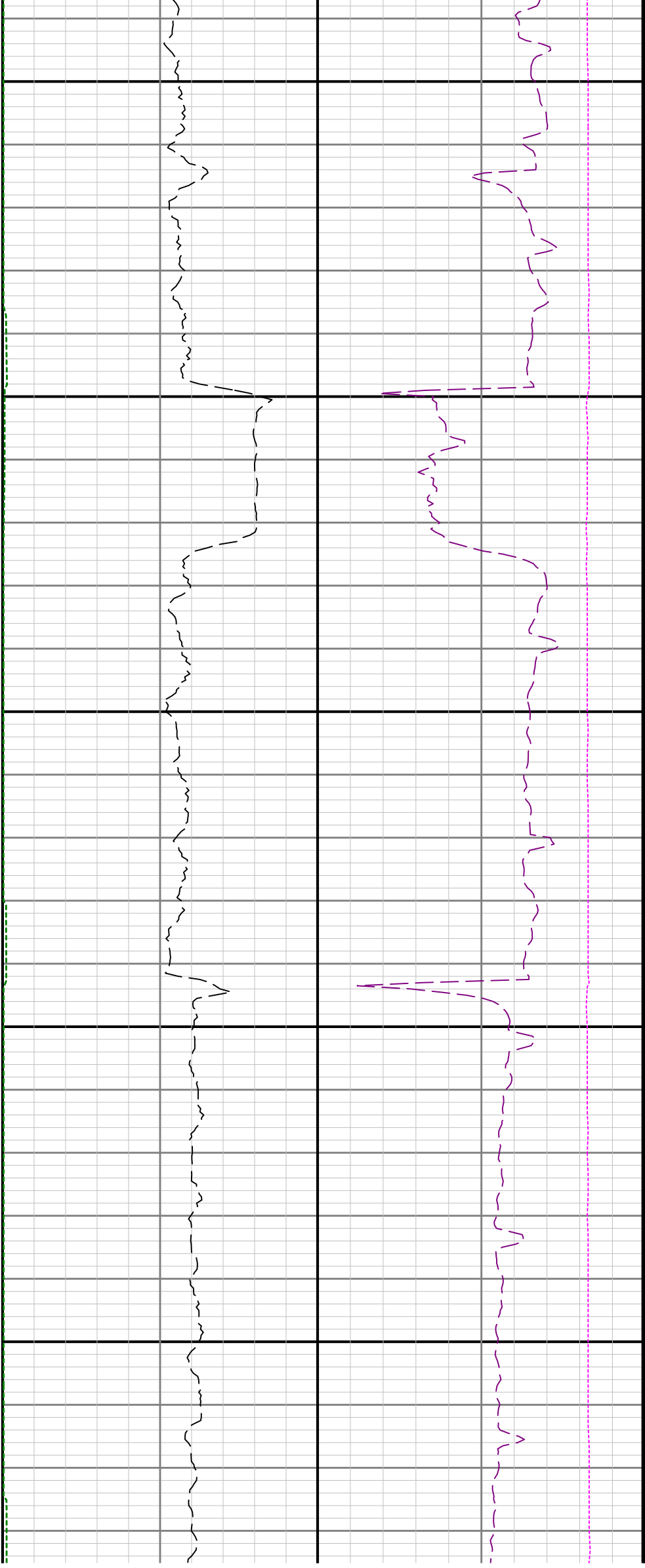


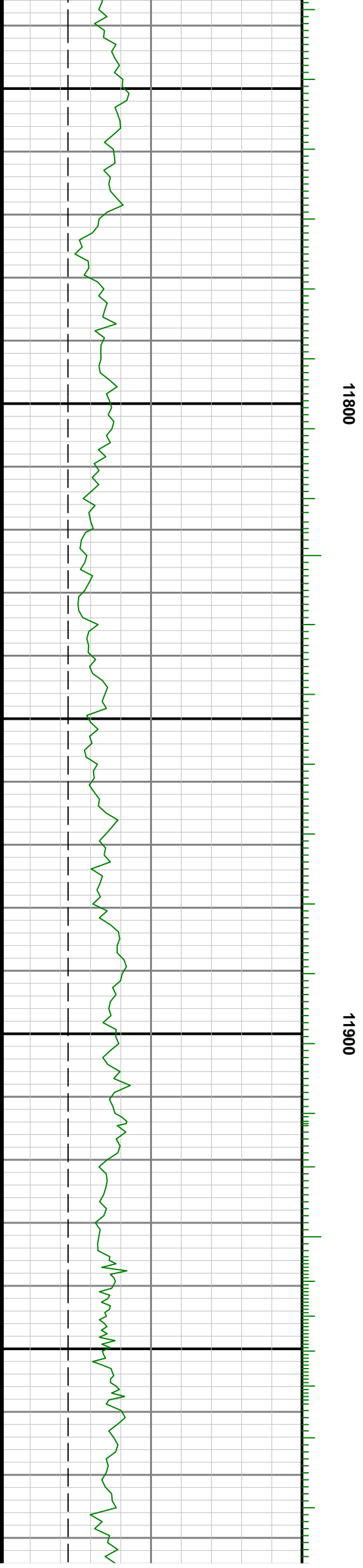


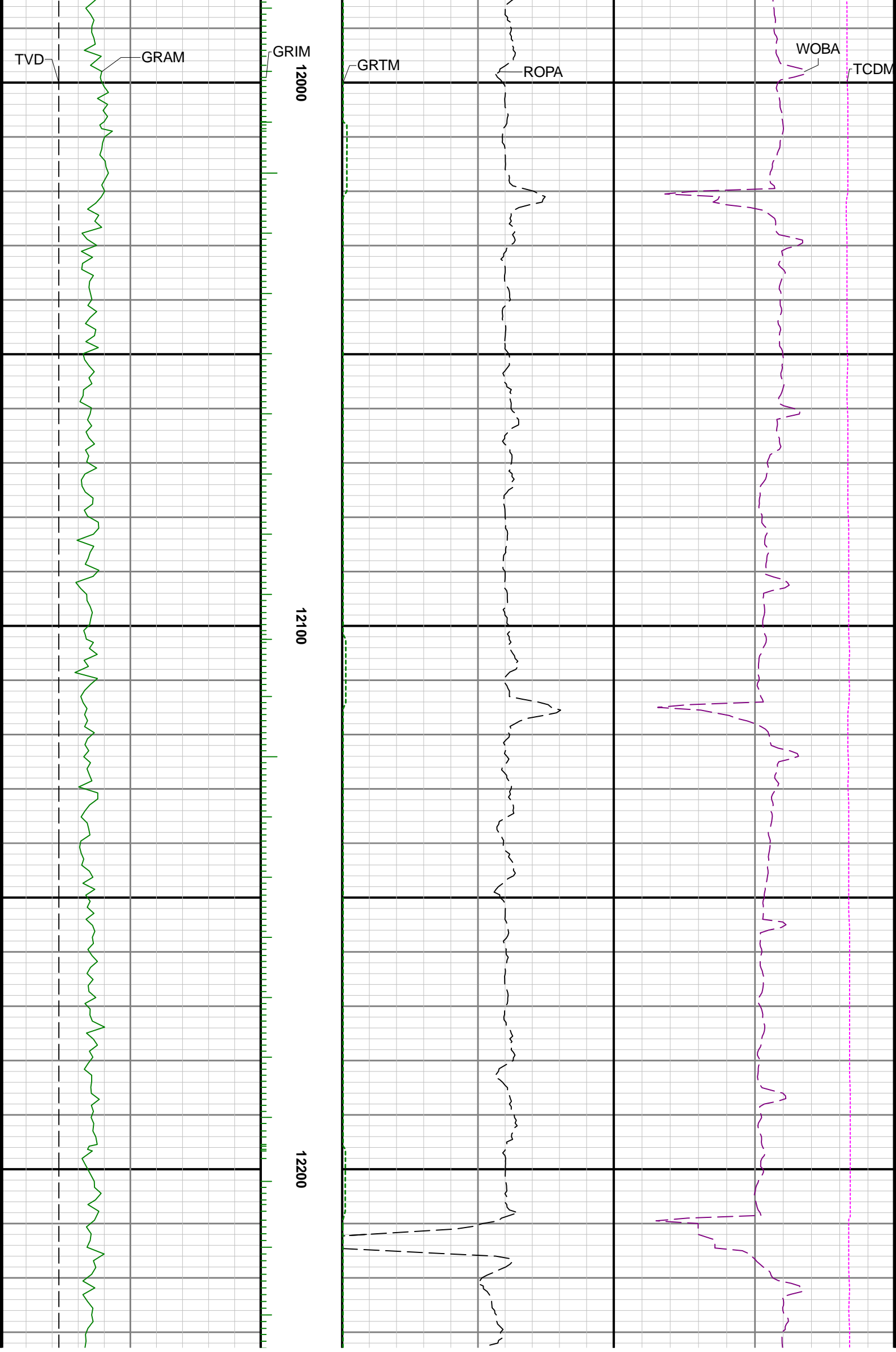
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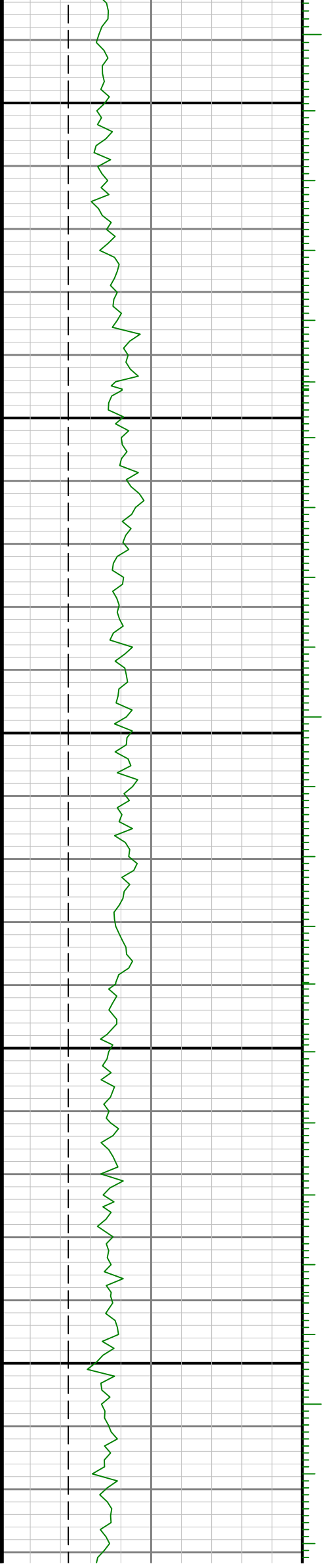
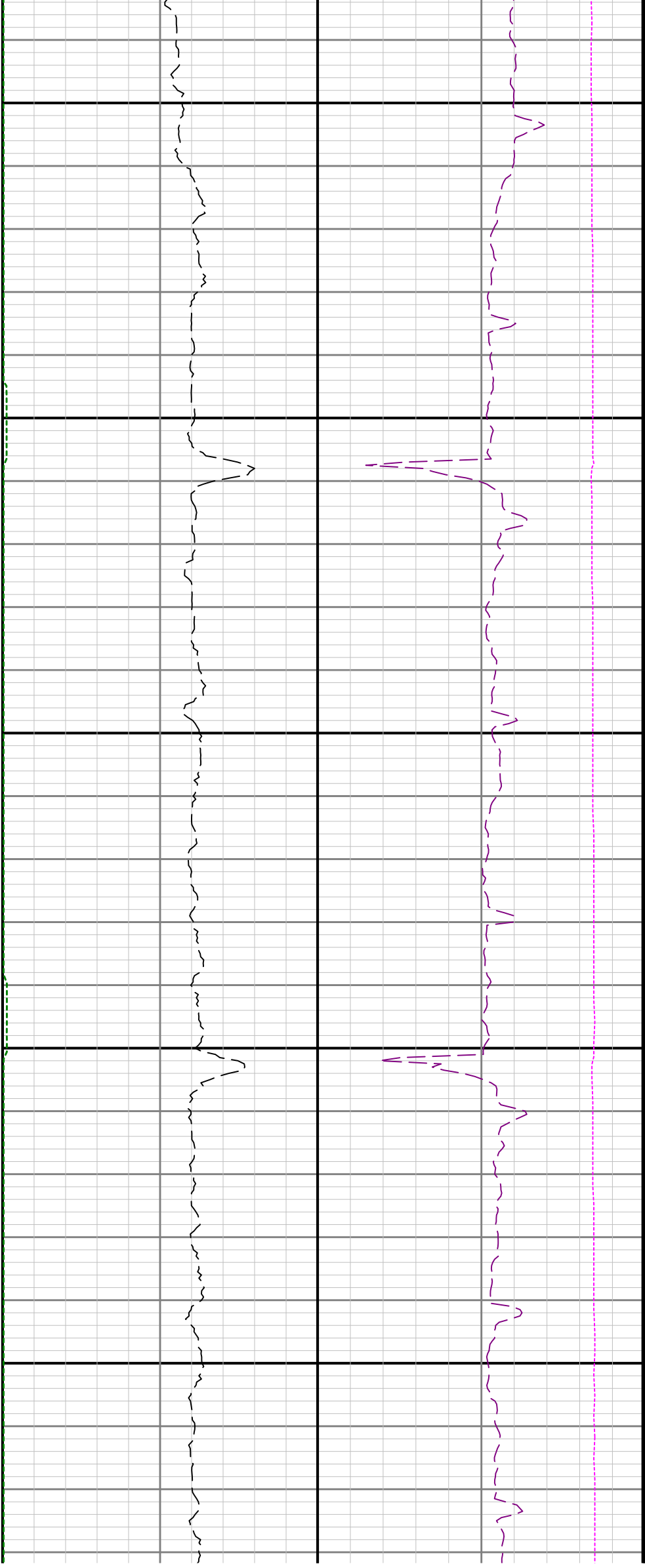
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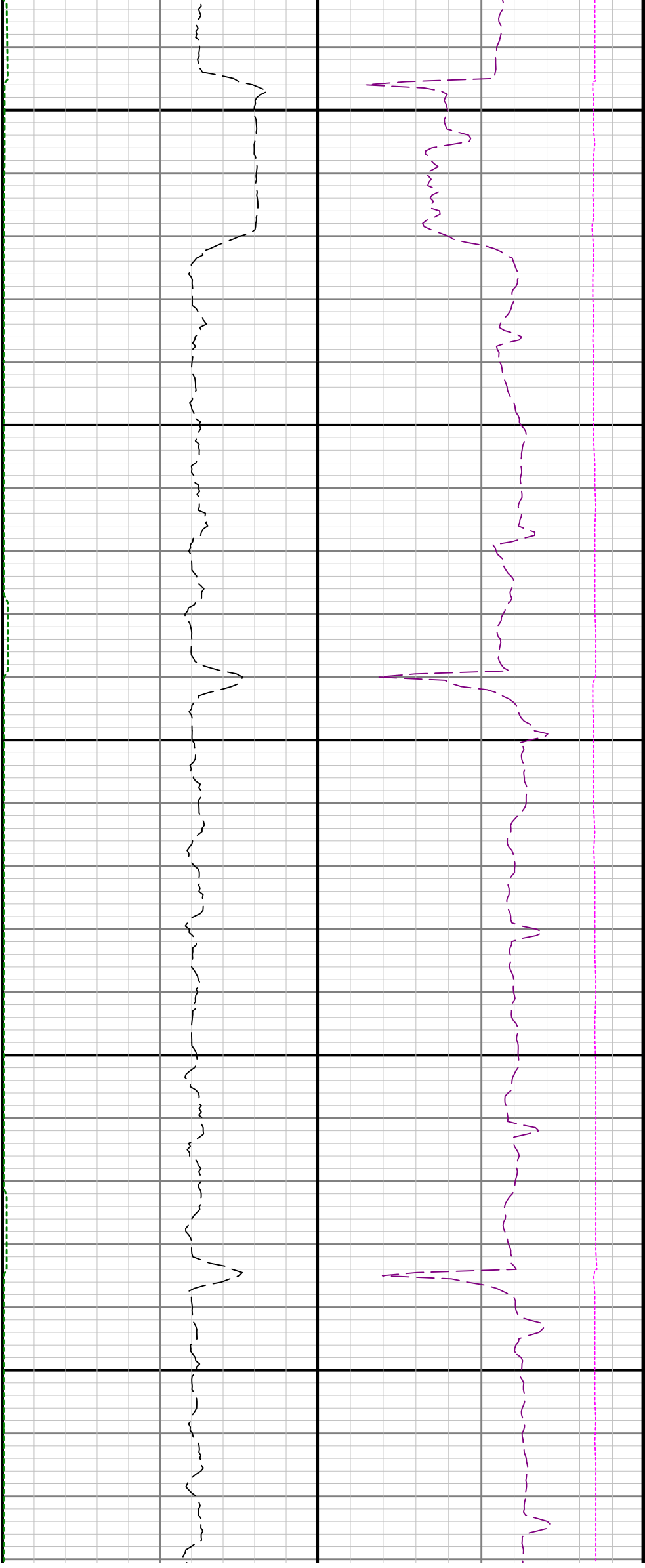








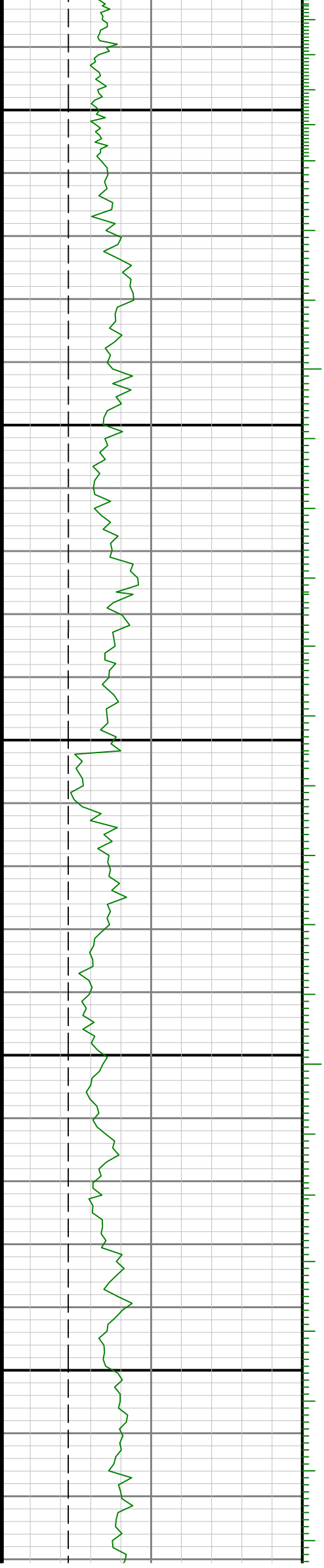


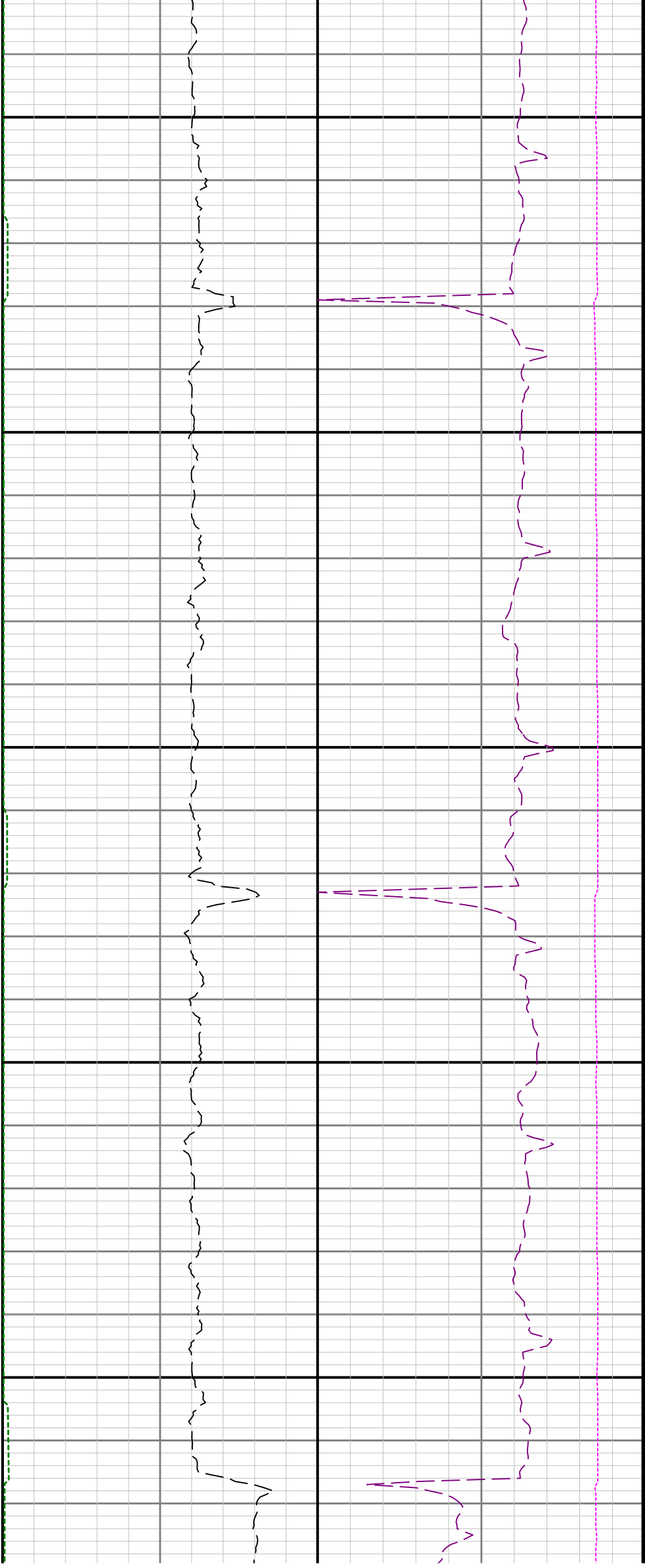


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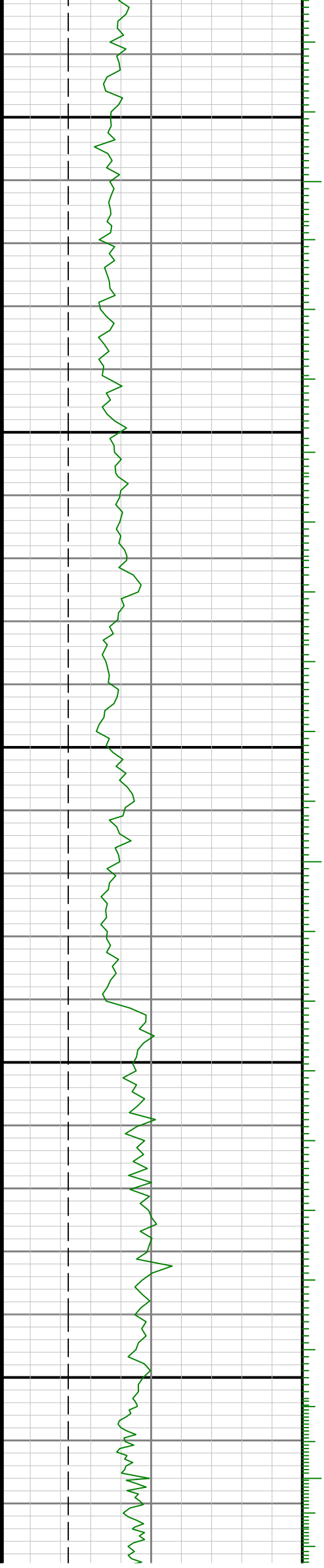
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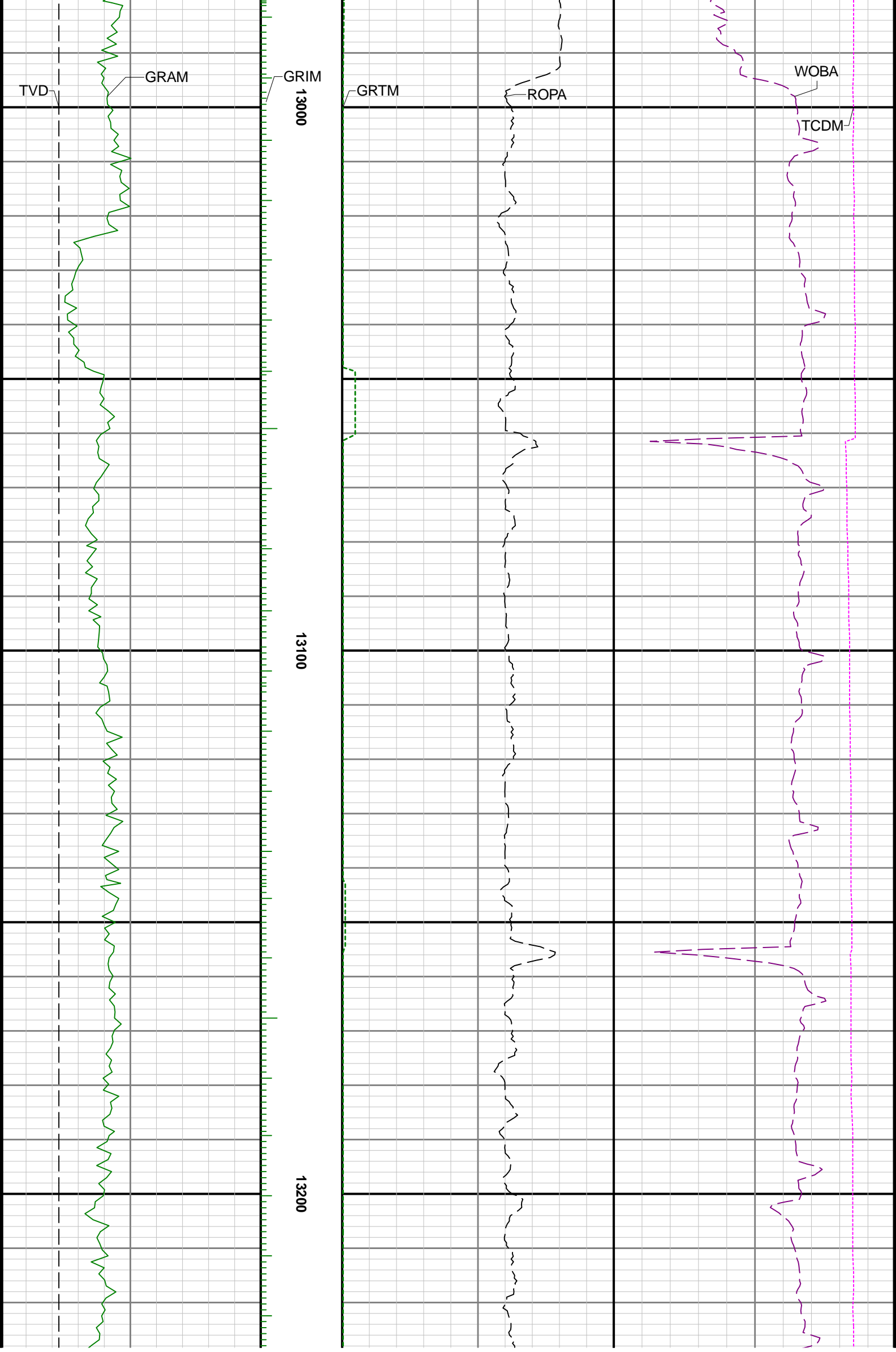


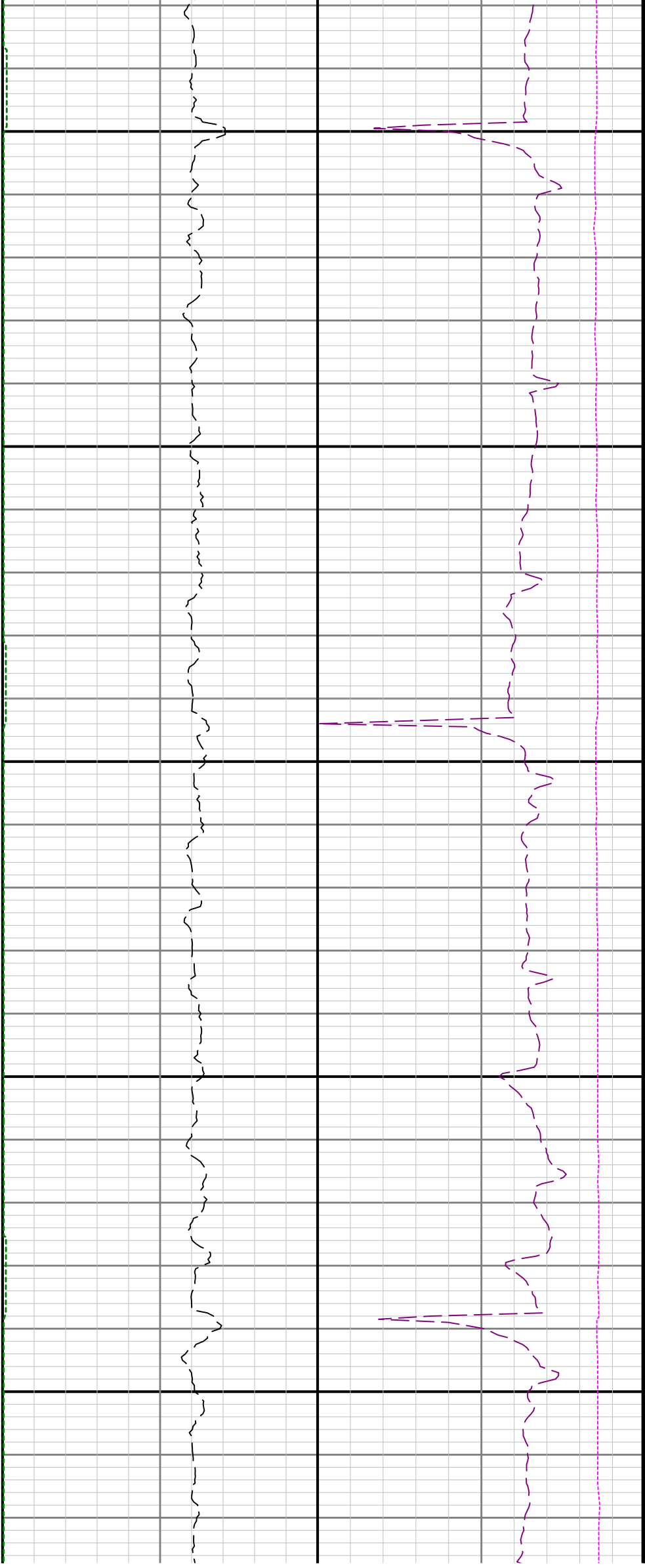


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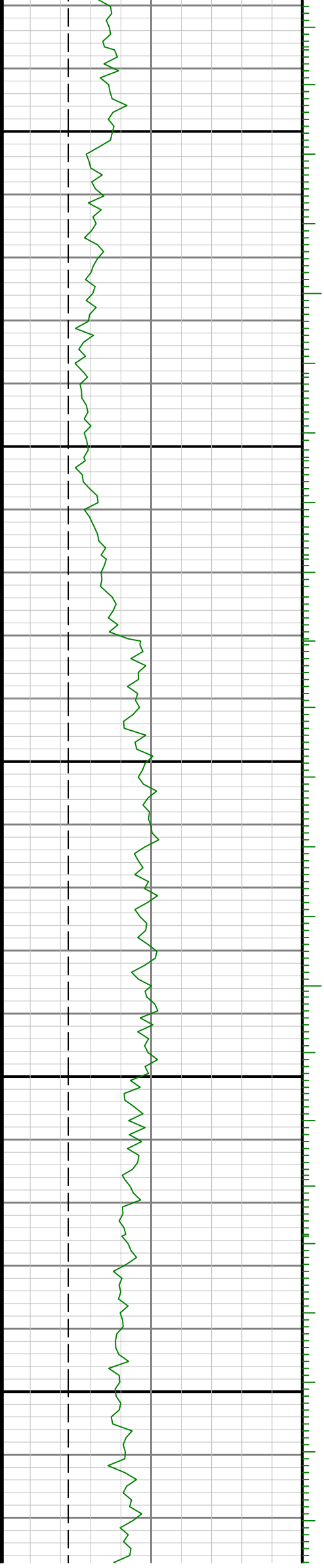


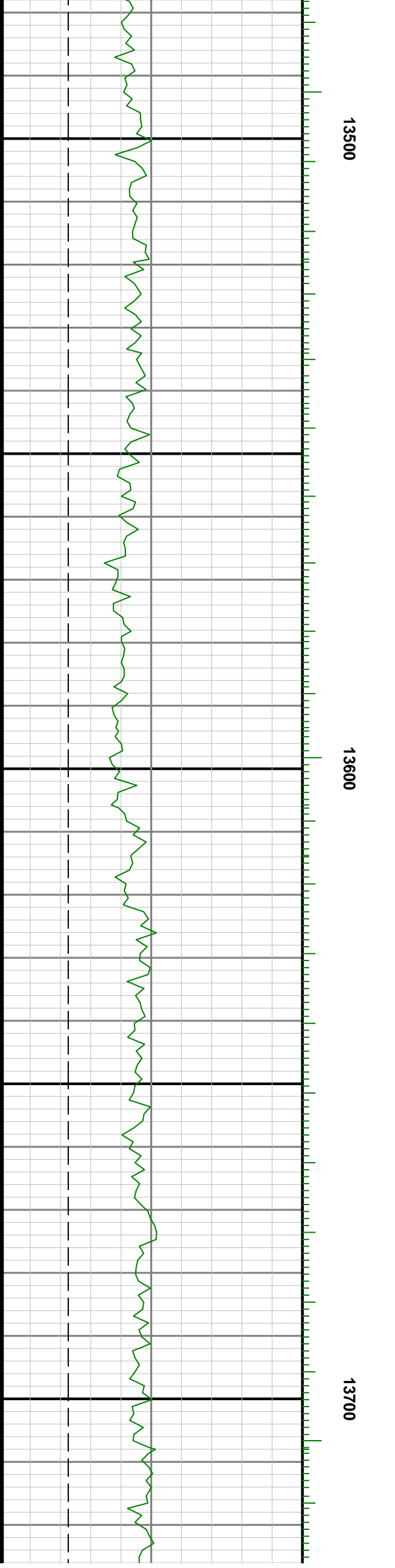
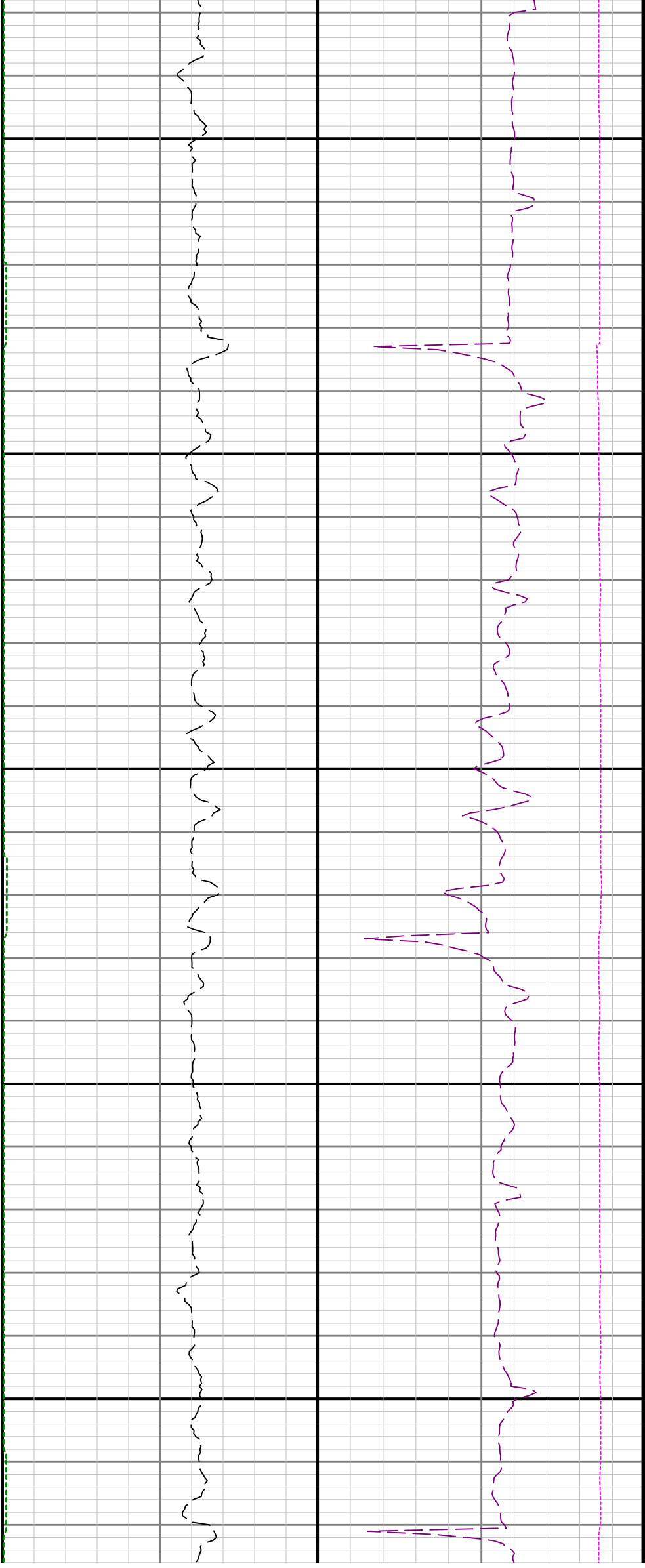


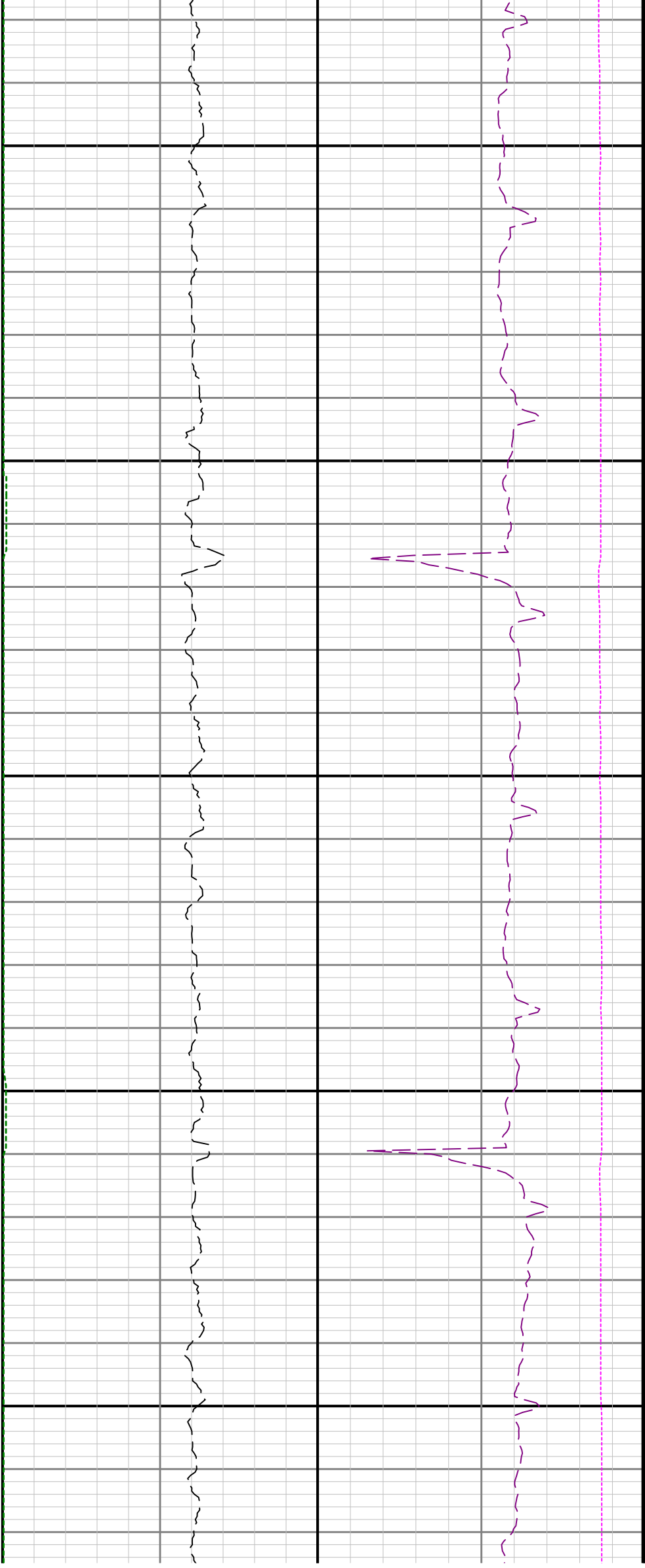


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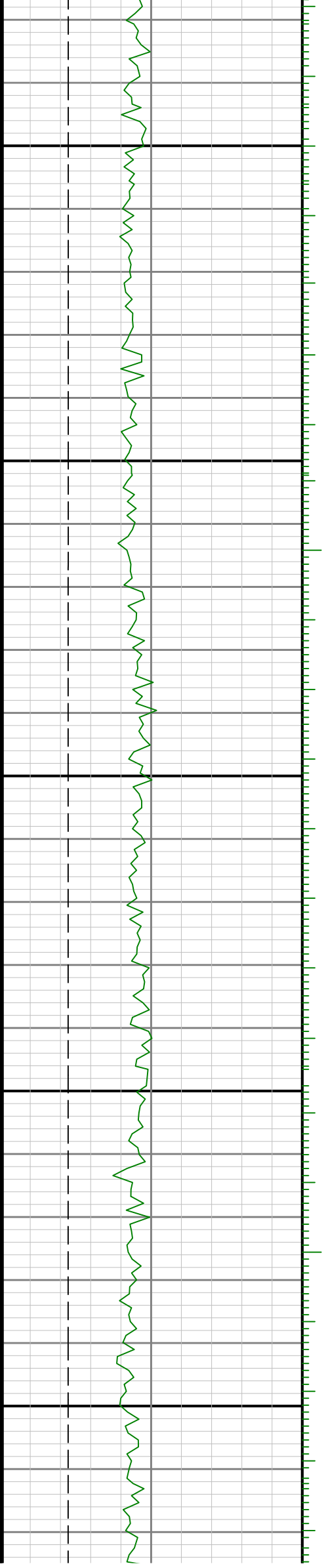




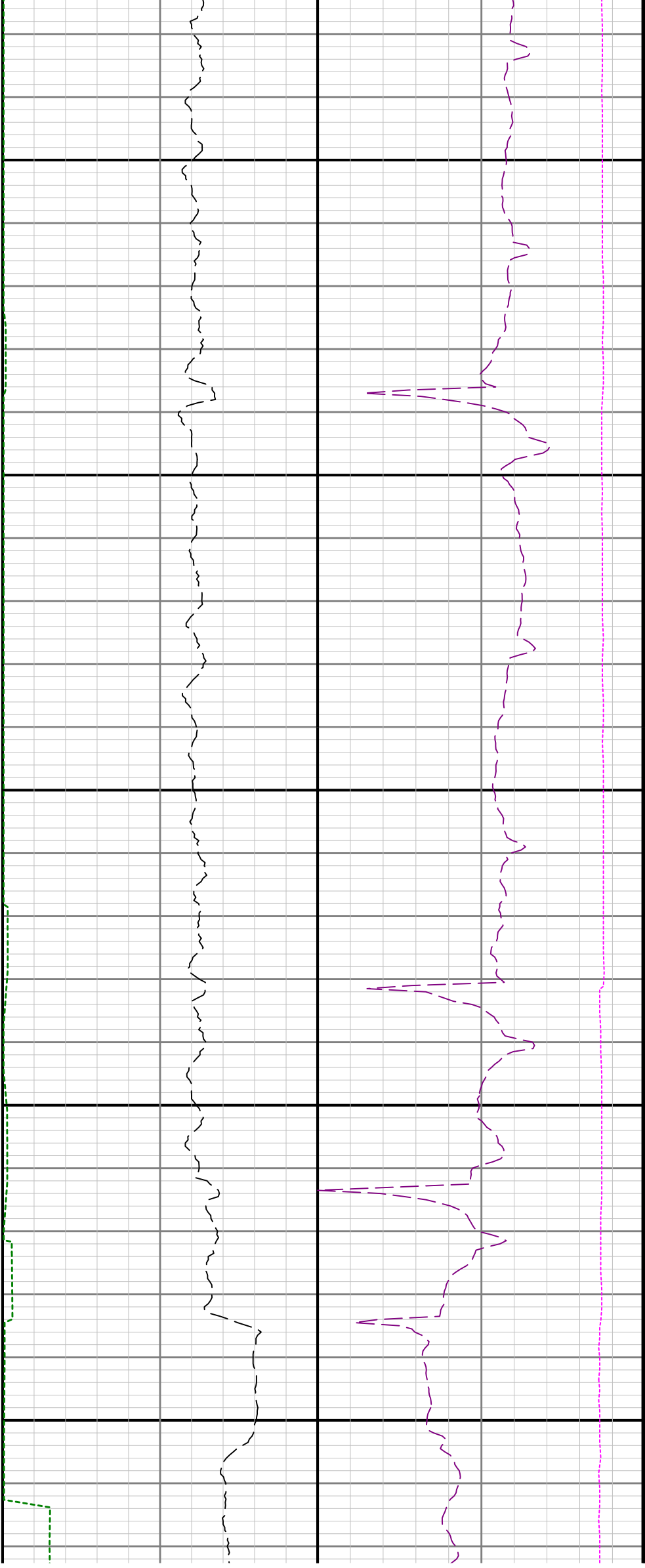


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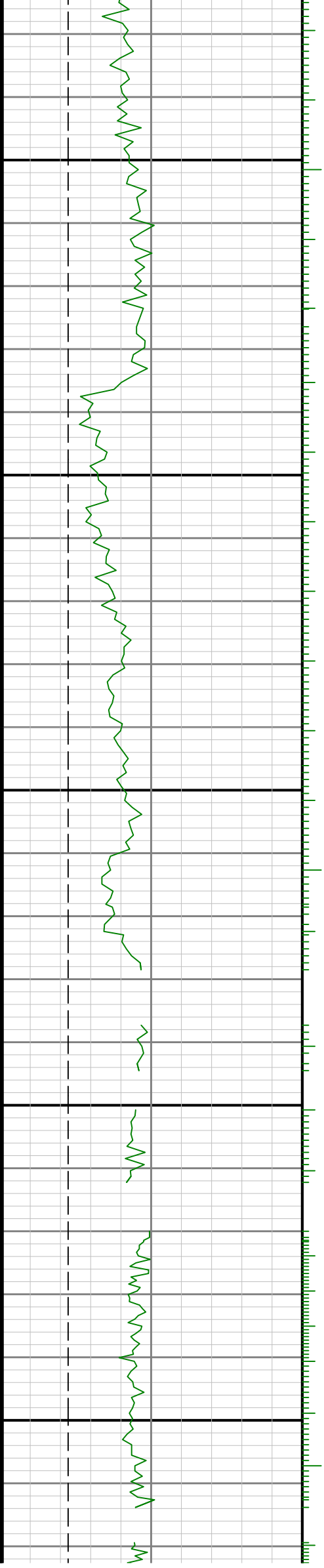


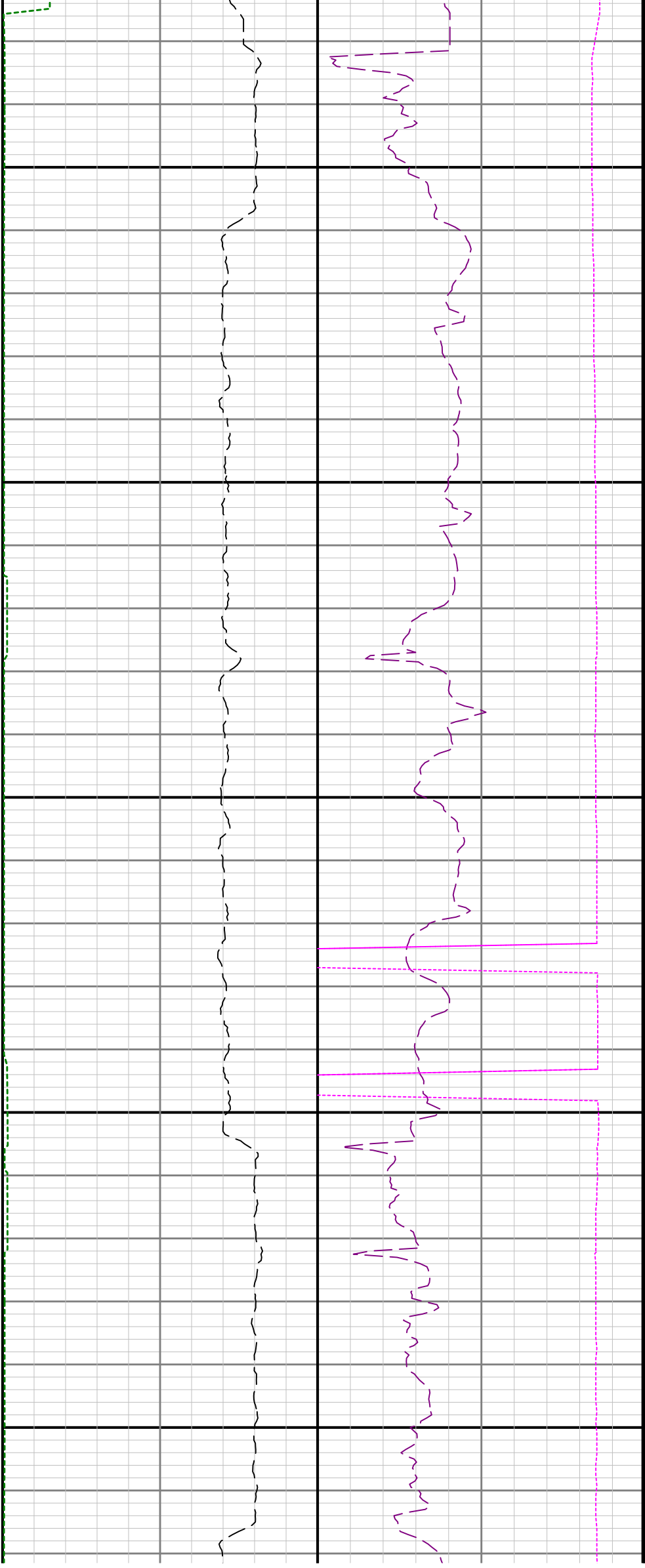




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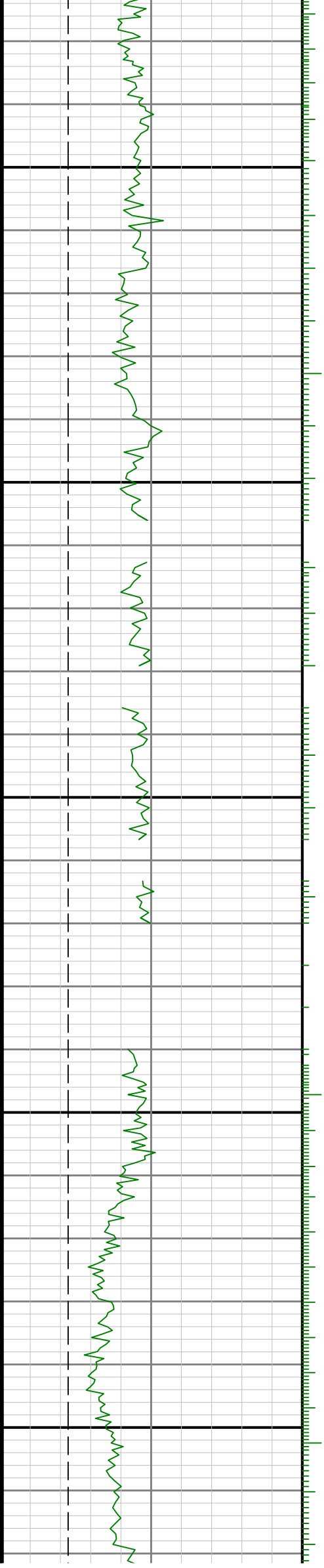


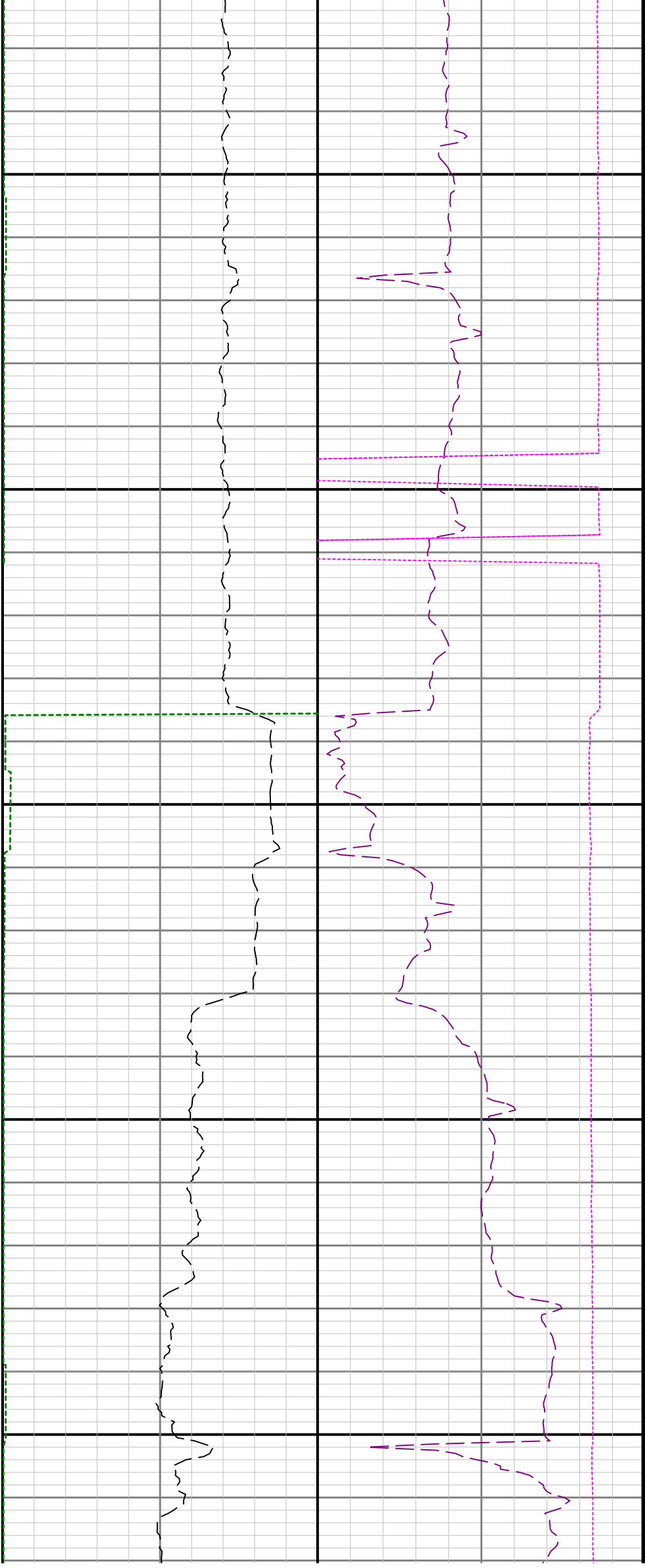


14500

14600

14700

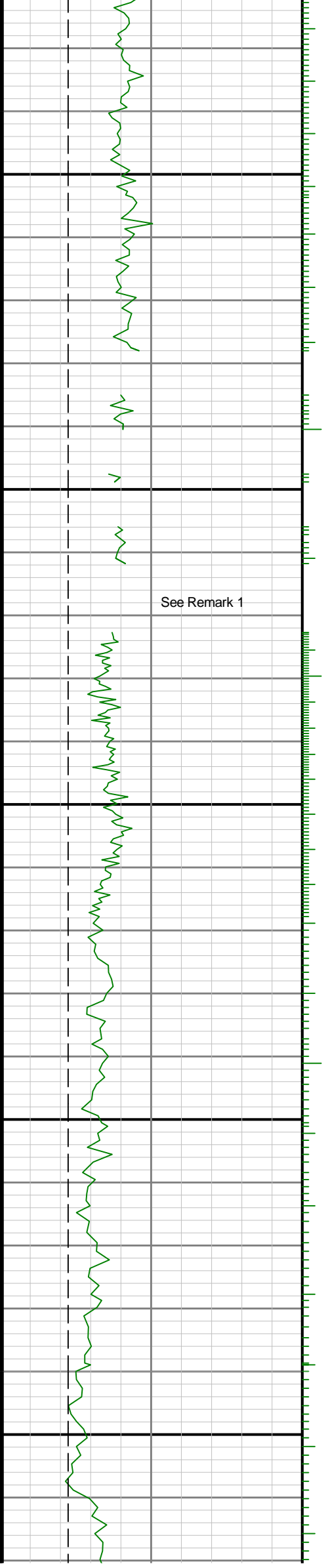


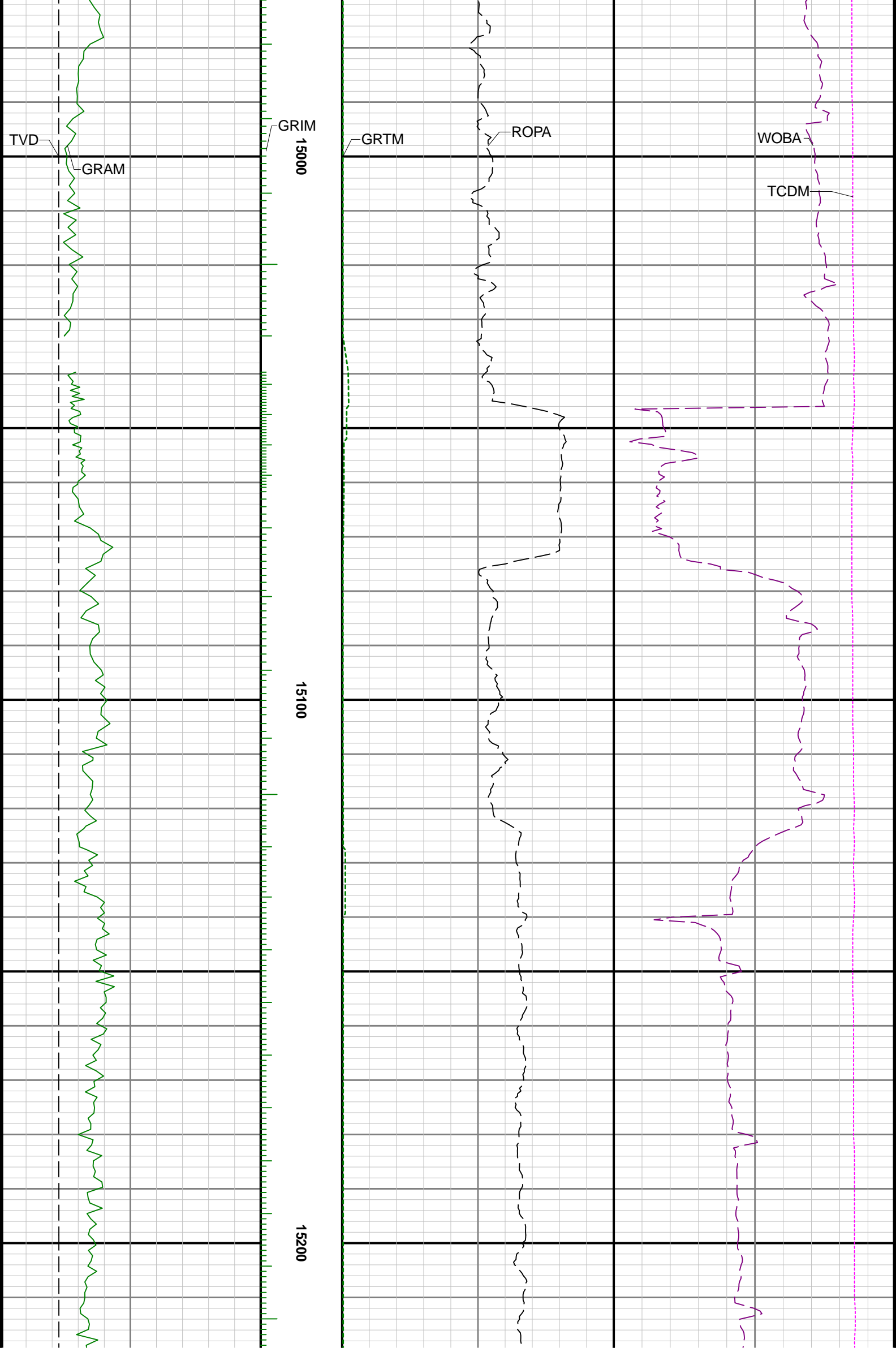


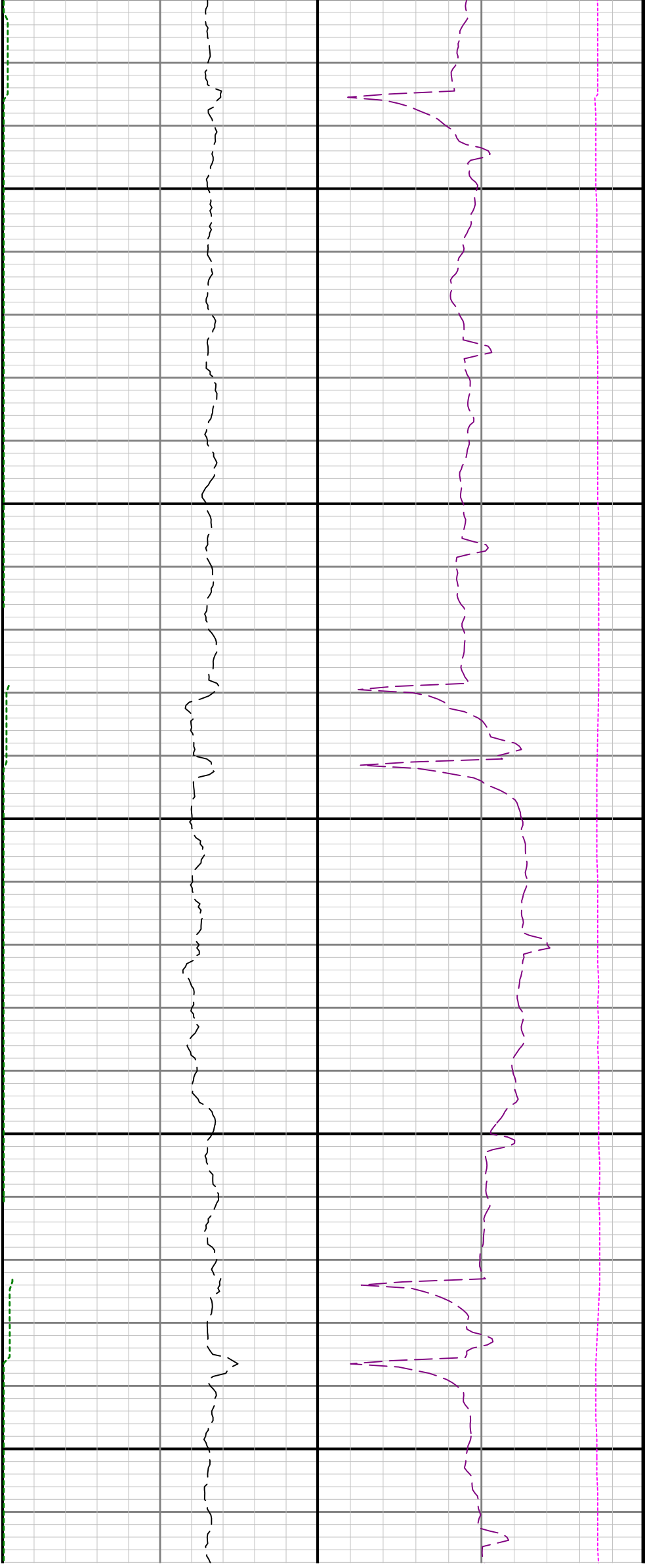
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14900

See Remark 1

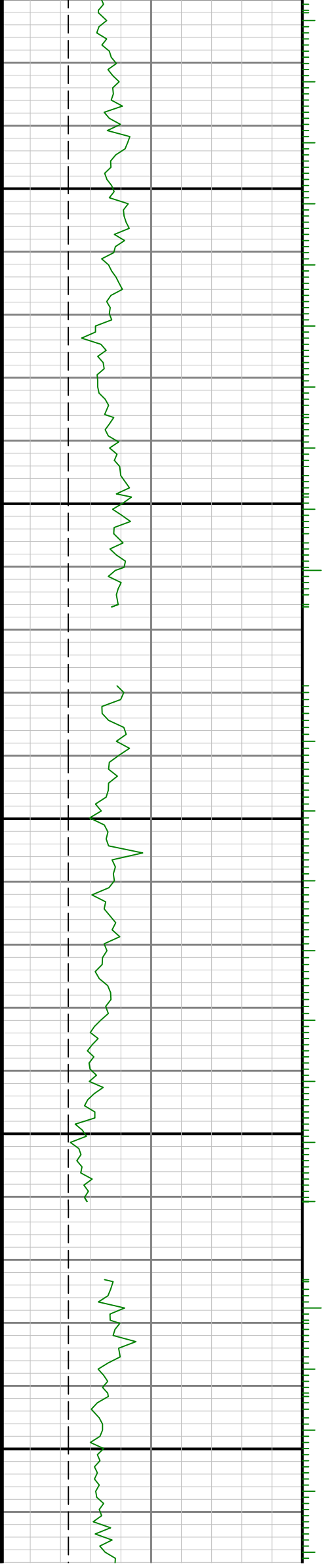


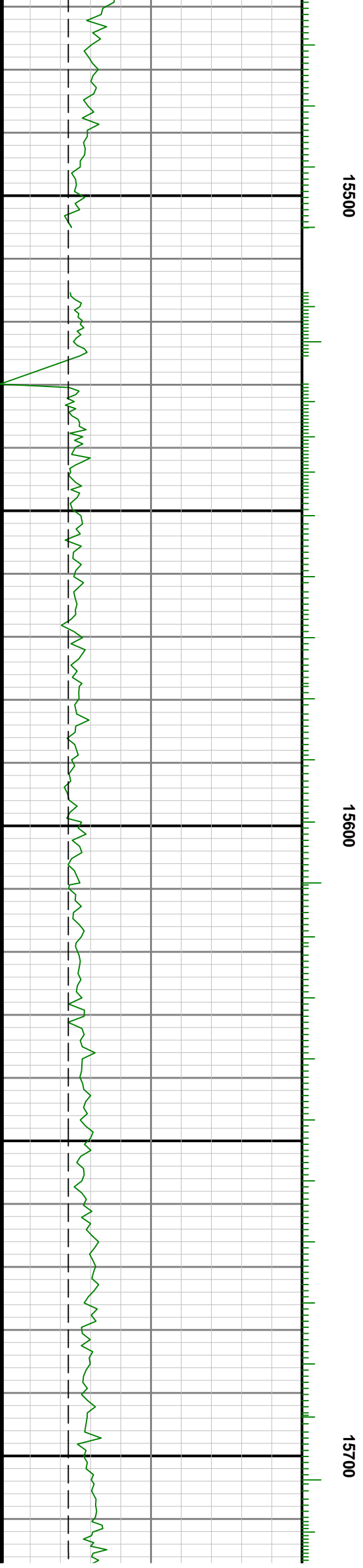
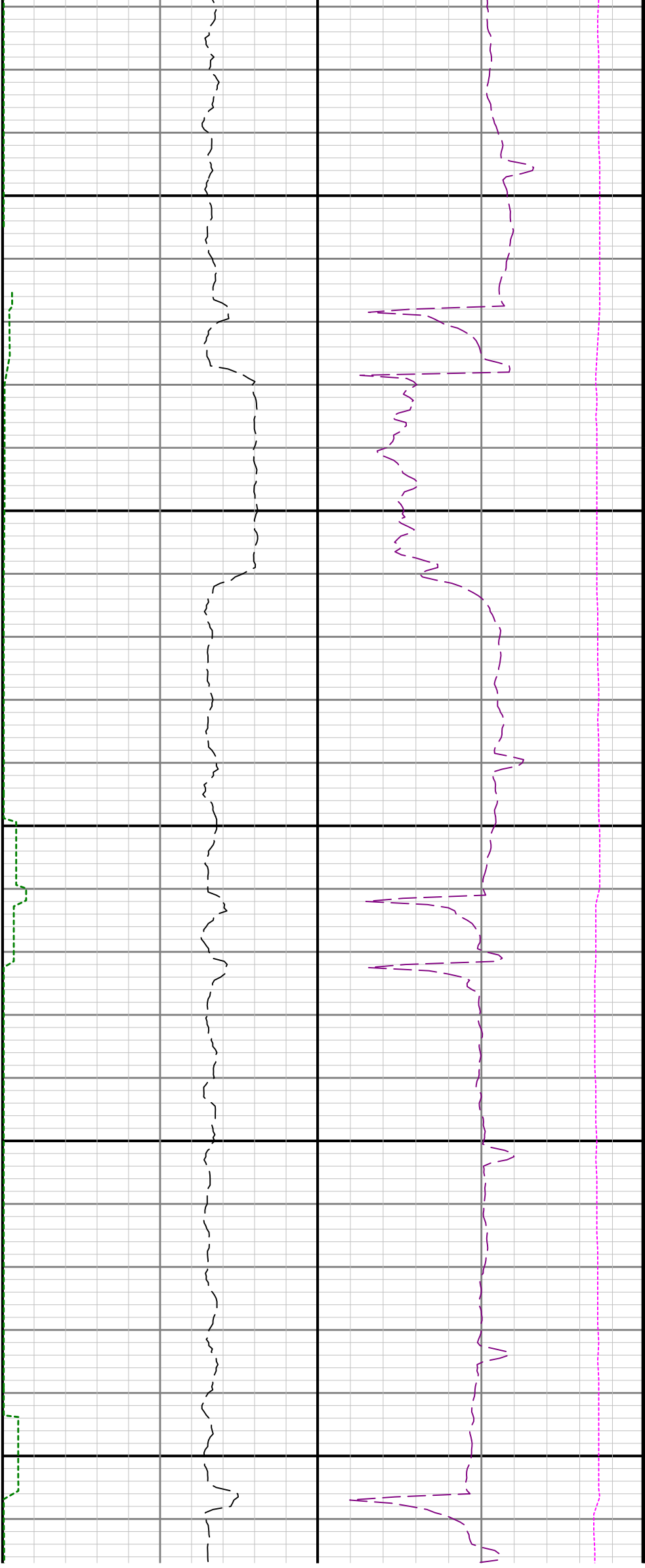


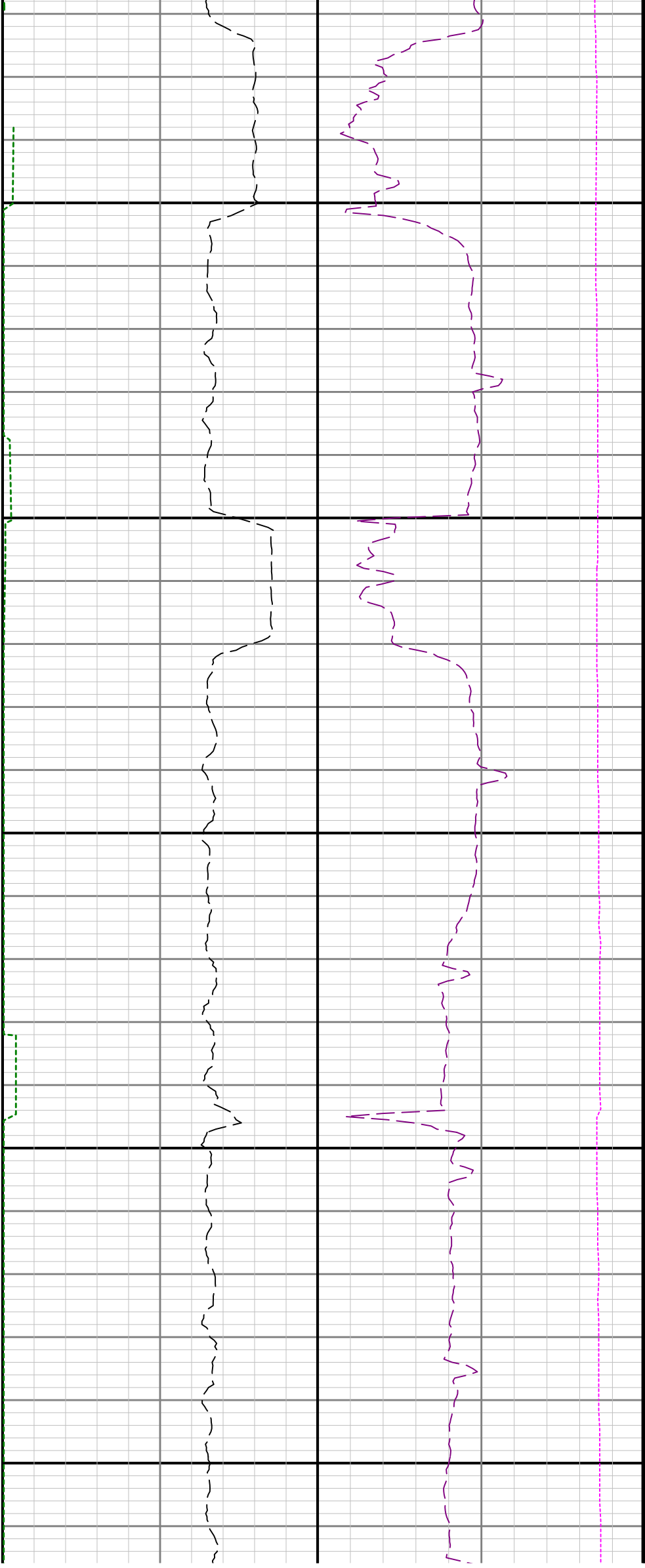


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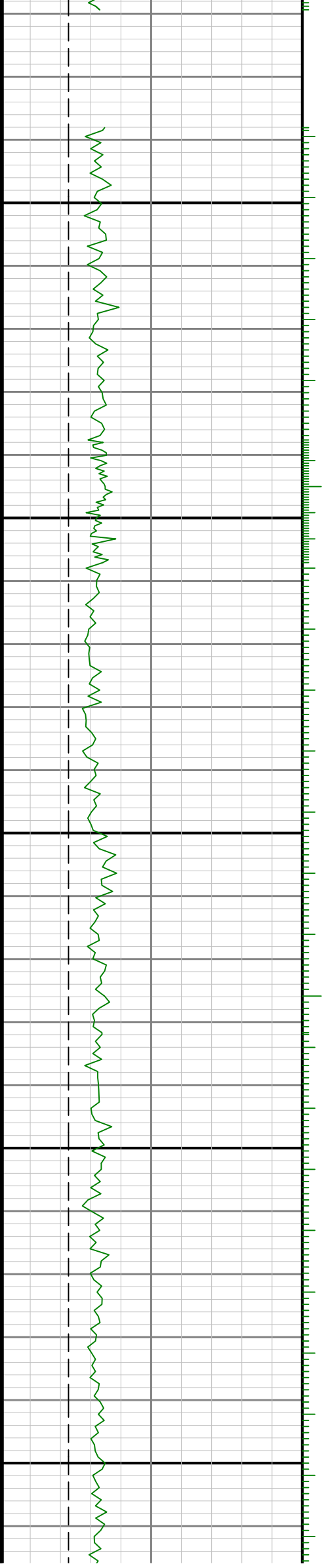




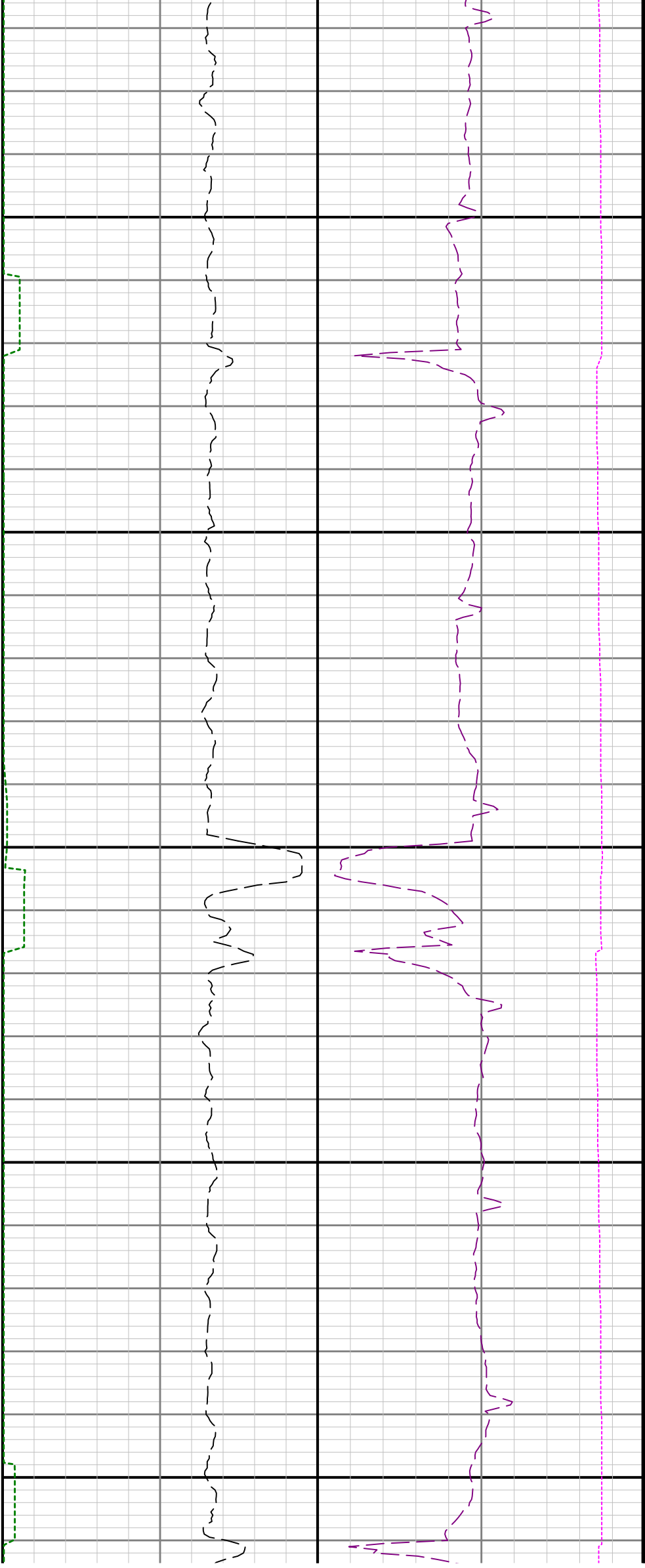


15800

15900







16300

16400

