



1	NaviTrak	13249128	VSS	16.47	52.54	8.000	3.250
1	NaviTrak	13249128	Directional (mag)	16.47	52.54	8.000	3.250
2	AutoTrak Curve Steering Unit	14316005	Near Bit Inclination	5.93	6.73	7.000	4.330
2	AutoTrak Curve Steering Unit	14316005	Near Bit VSS	5.93	6.73	7.000	4.330
2	AutoTrak Curve MWD	14371850	Gamma (single)	2.76	12.90	7.000	3.250
2	AutoTrak Curve MWD	14371850	Directional (mag)	12.27	22.41	7.000	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
NTK	NaviTrak	Probe Based Directional Module, NaviTrak Platform
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

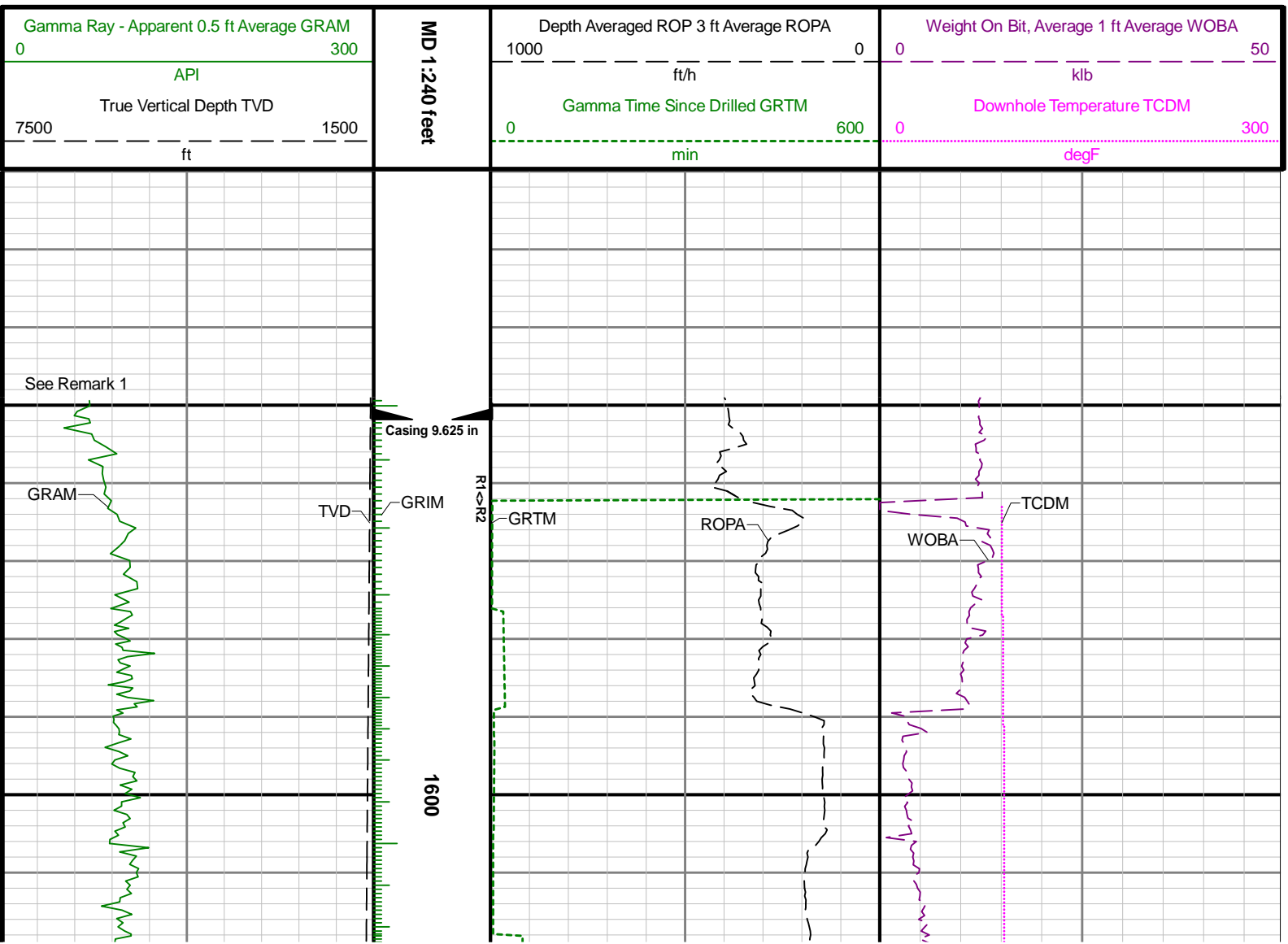
1	Depths measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified. These unverified depths are being used to represent logging data.
2	Baker Hughes, a GE company run 1 utilized 8 inch Directional-only with NaviTrak service behind a 13 ½ inch bit an 8 inch steerable assembly from 23 to 1562 feet MD (23 to 1562 feet TVD) therefore, no logging data was acquired for this run.
3	Baker Hughes, a GE company run 2 utilized 6 ¾ inch NaviGamma services (Gamma Ray and Directional) behind 8 ½ inch bit and rotary steerable assembly from 1562 to 16659 feet MD (1562 to 6411 feet TVD).
4	Gamma Ray Apparent (GRAM) is presented 0 to 300 API per customer request.

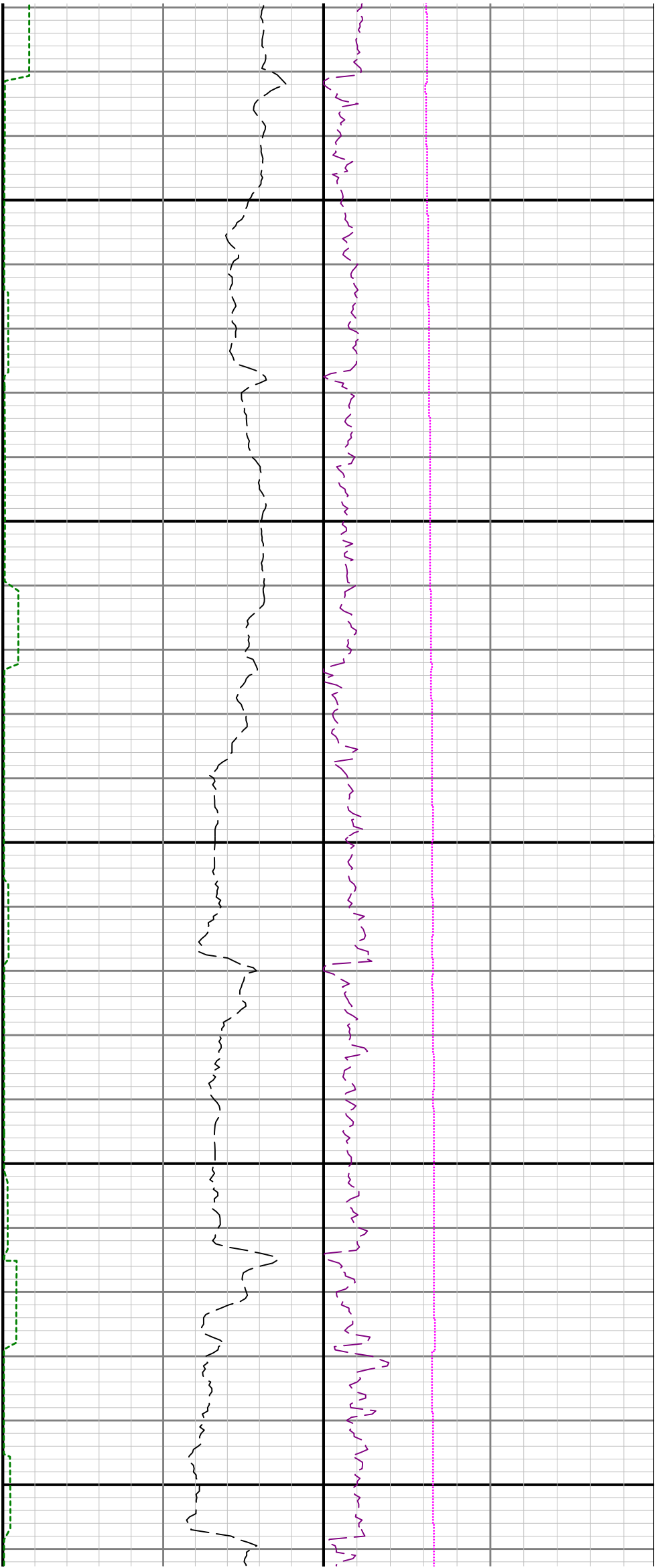
Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	1562.00	8.500	2	Baker Hughes logging services began at 1549 feet MD (1549 feet TVD) per customer request.
2	16656.00	8.500	2	The interval from 16646 to 16659 feet MD 6411 feet TVD) was not logged due to sensor to bit offset at well TD.

Curve Mnemonics

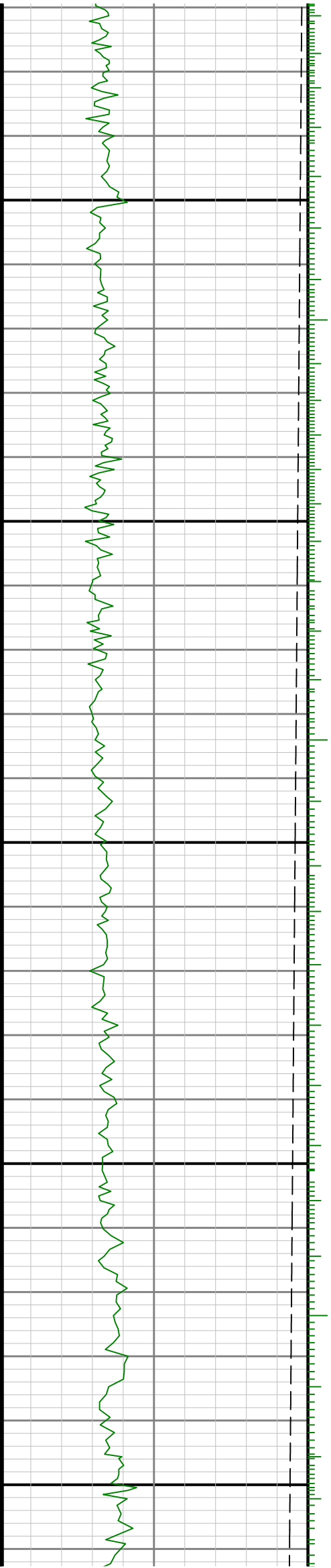
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
GRIM	Gamma Ray - Data Point Indicator - Memory	unitless
GRTM	Gamma Ray - Time Since Drilled - Memory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

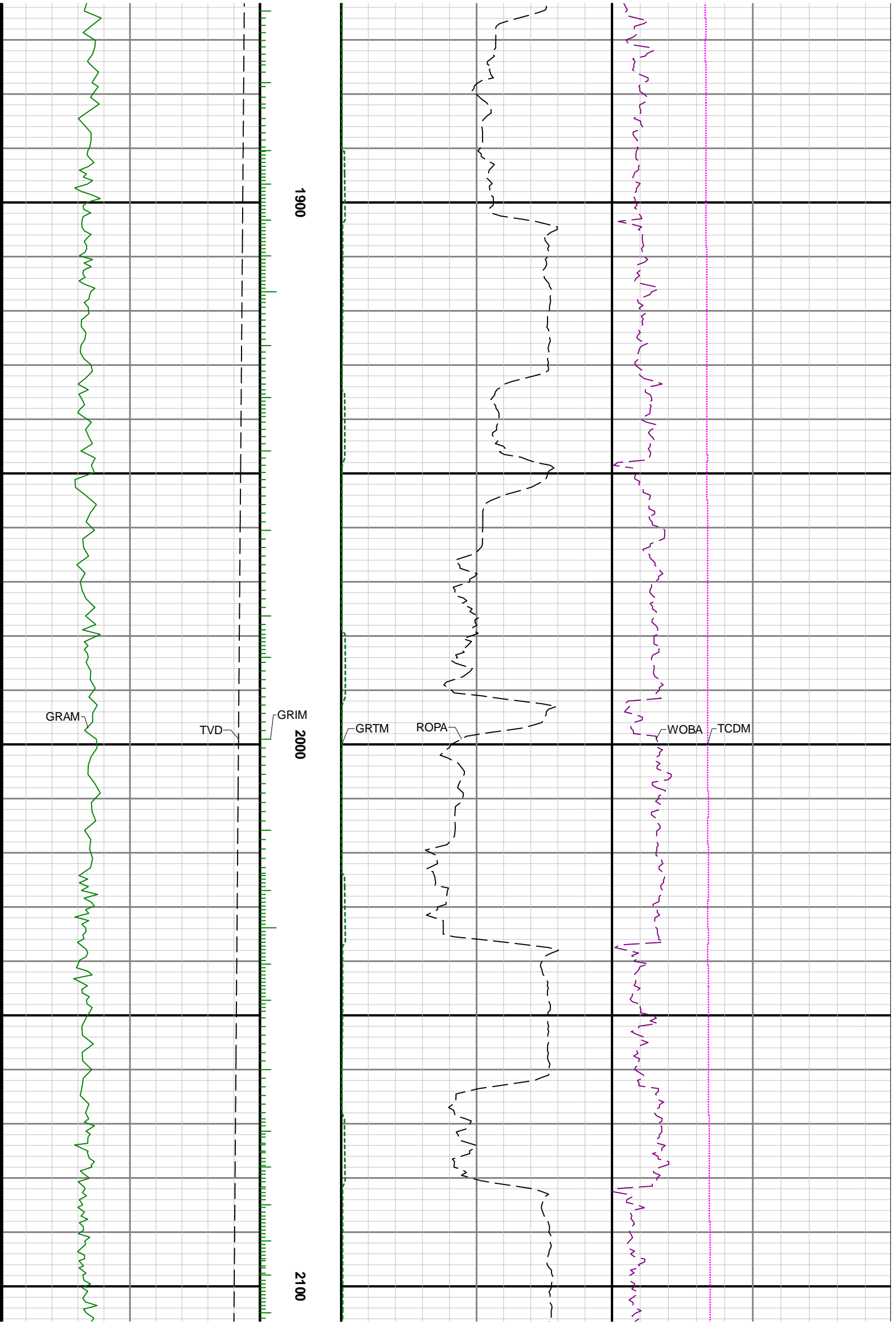


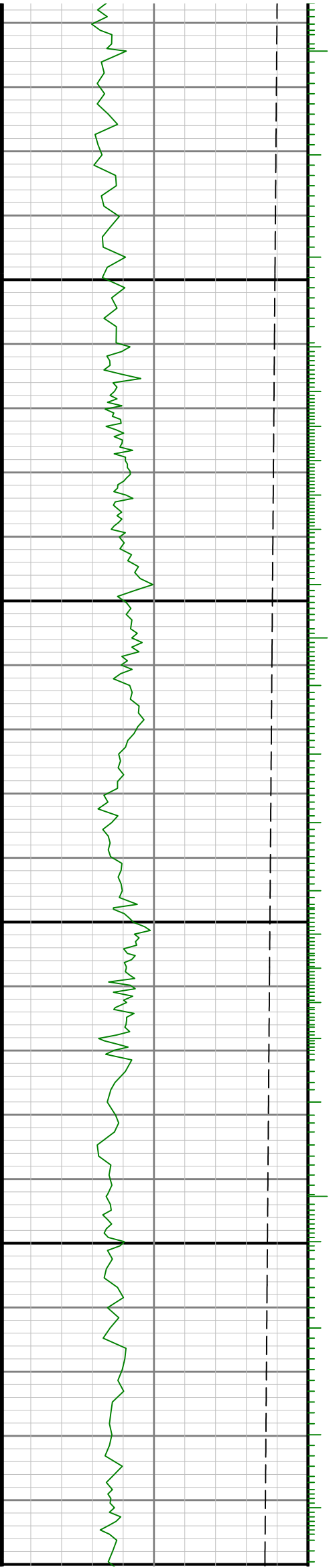
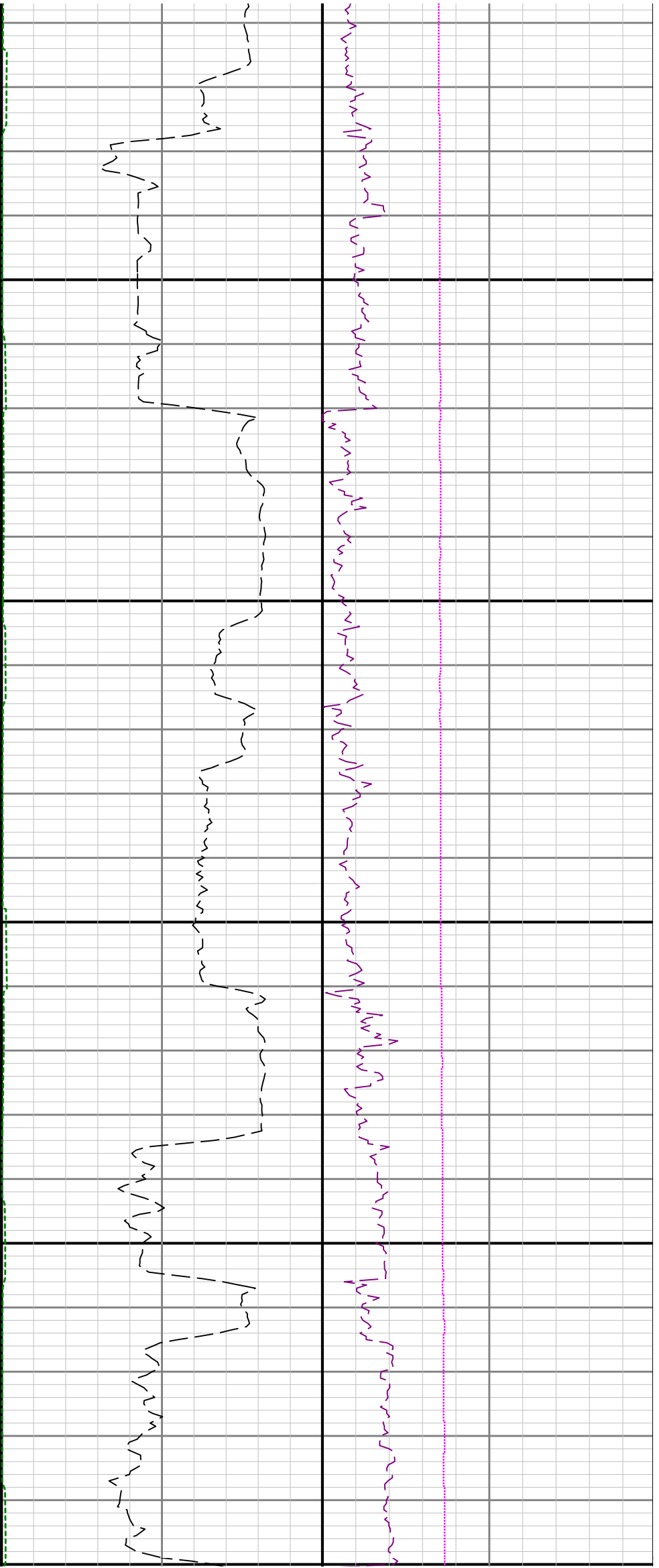


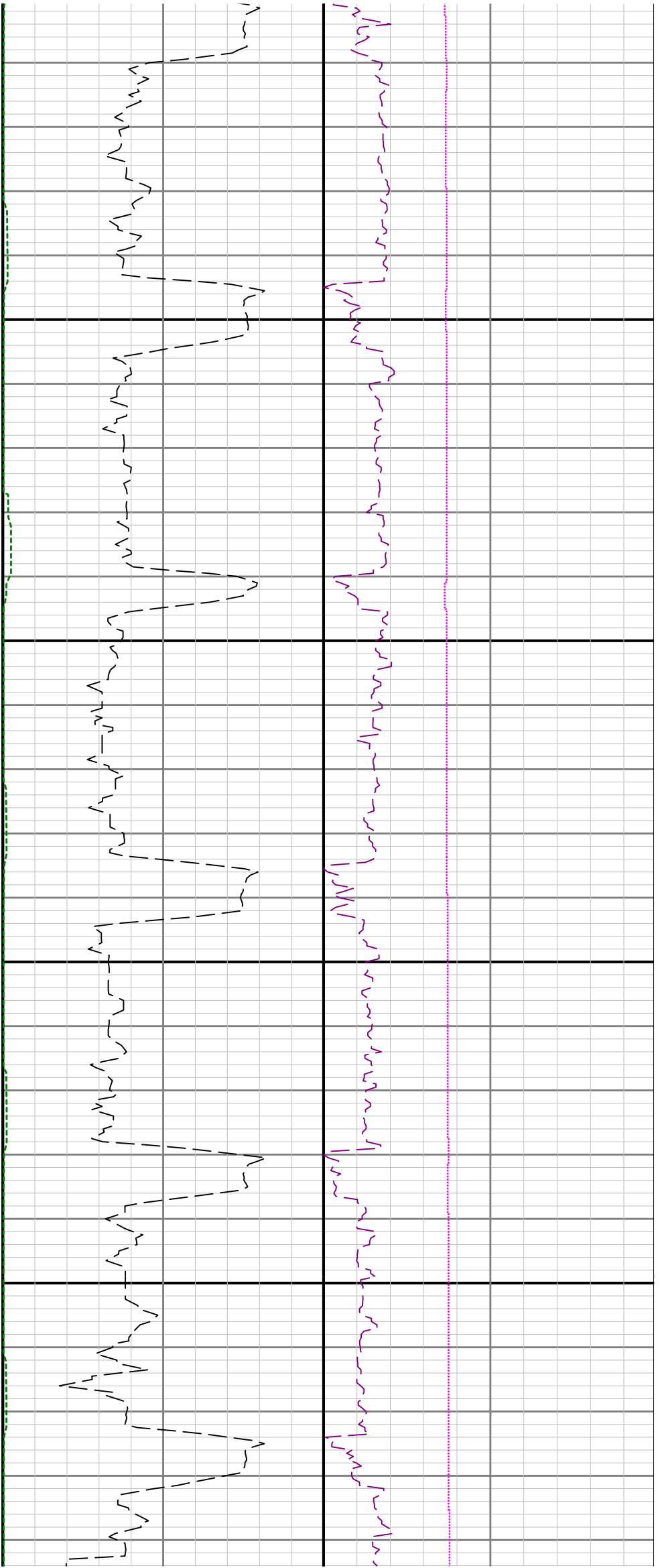
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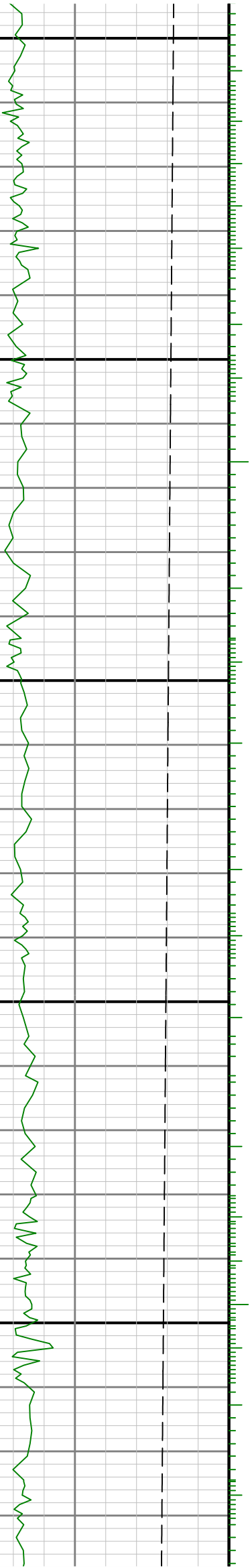
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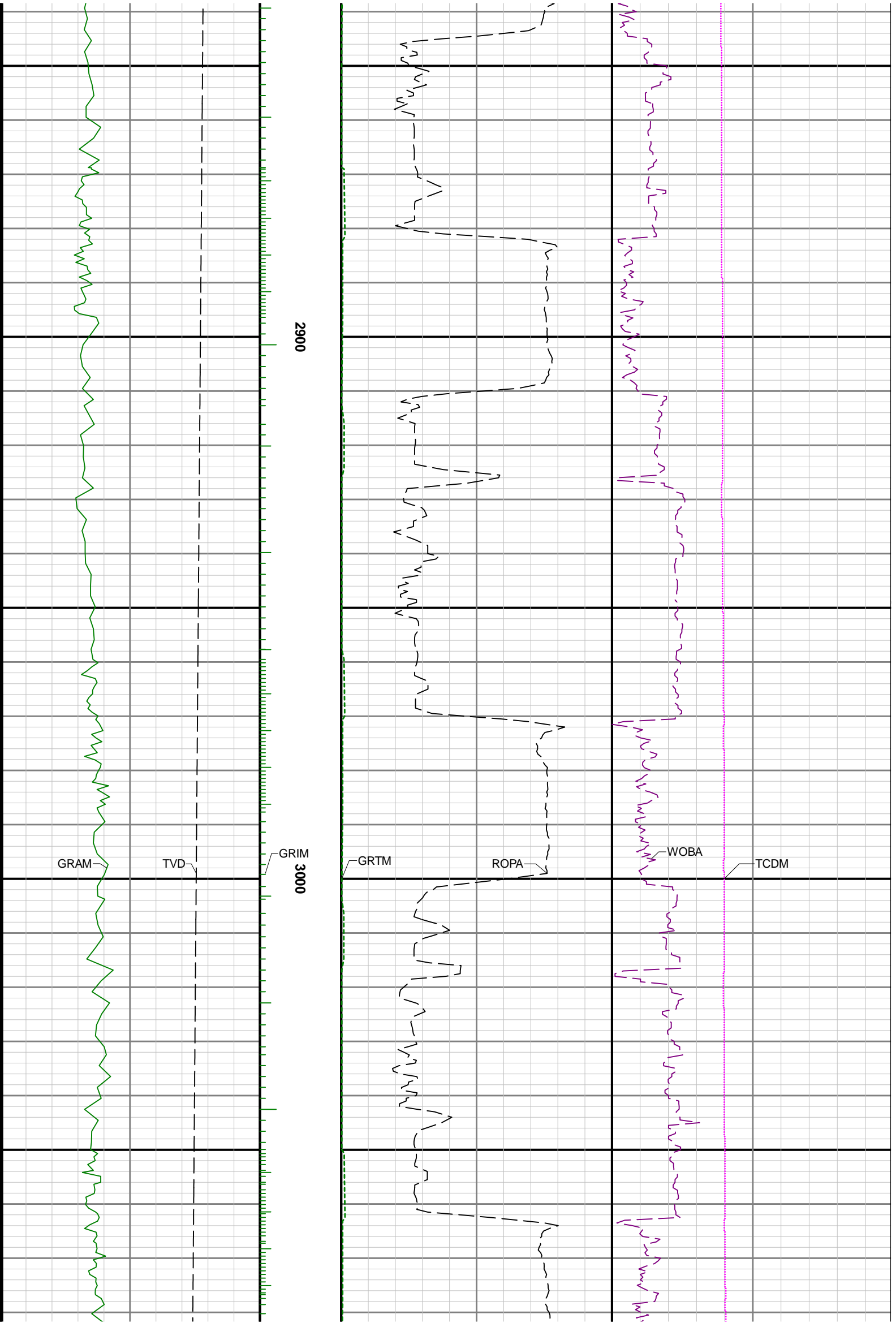


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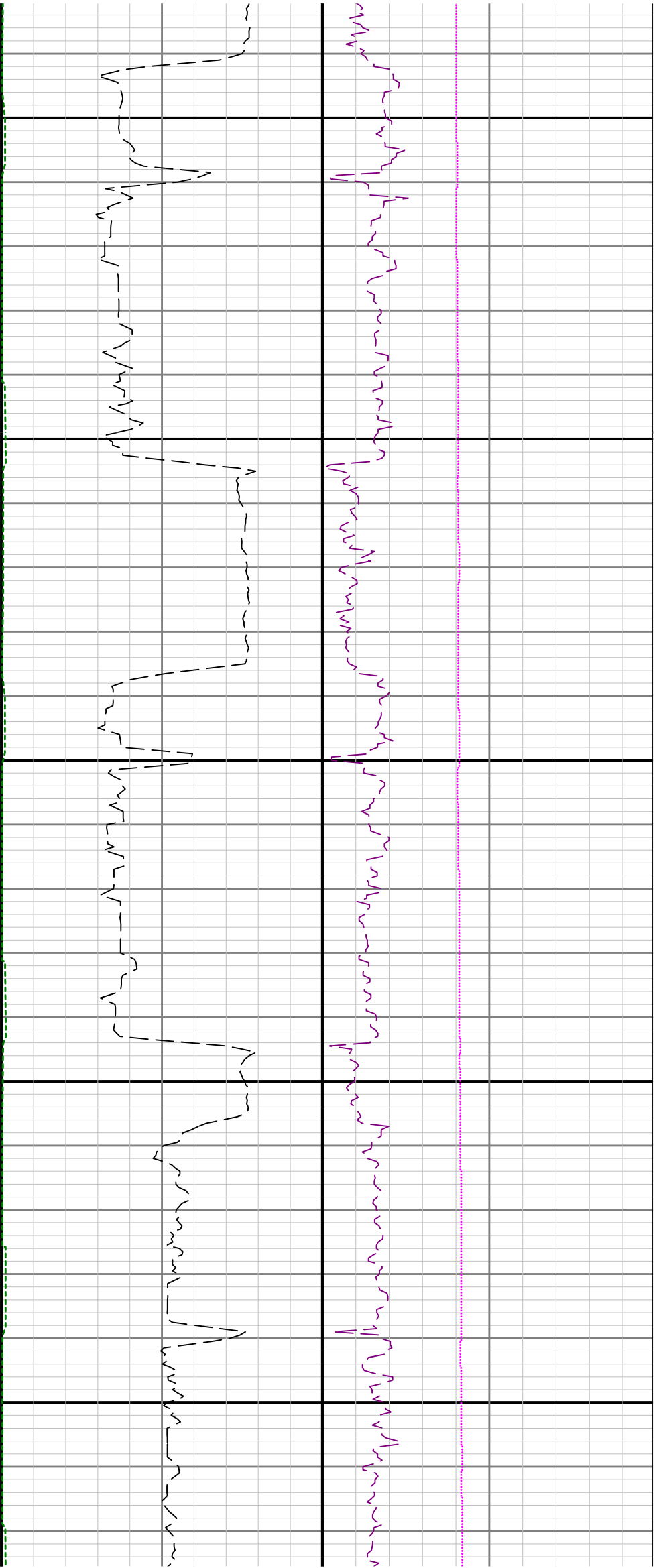
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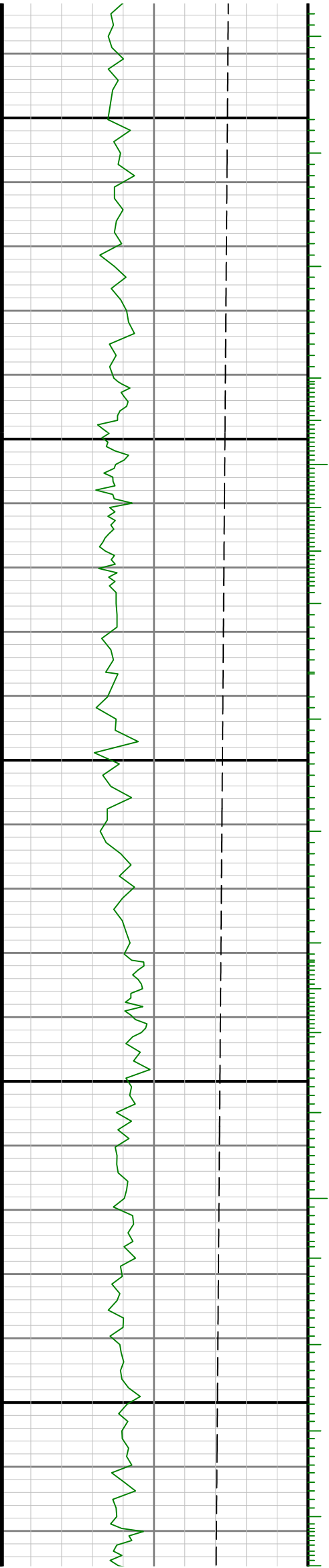


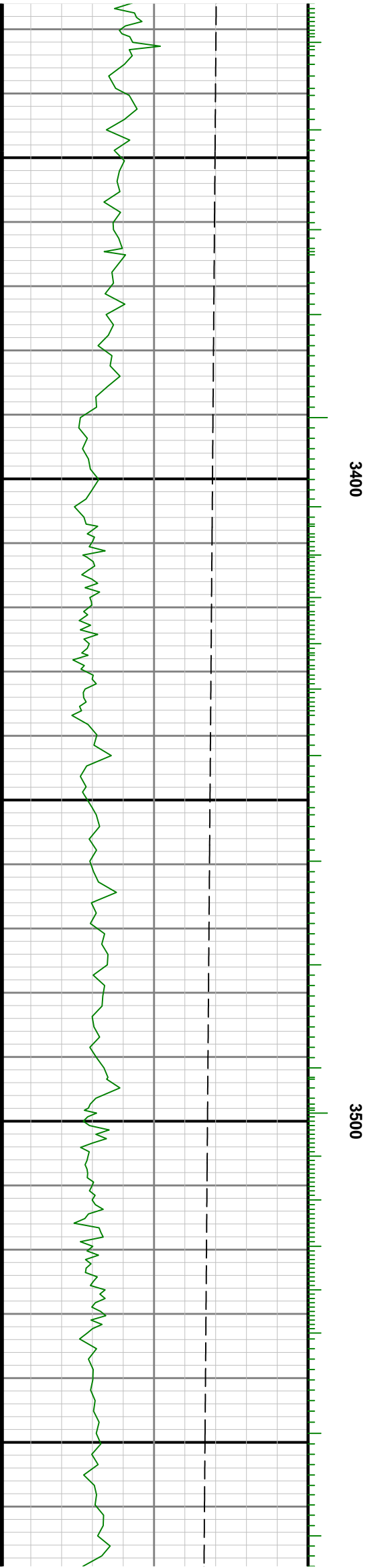
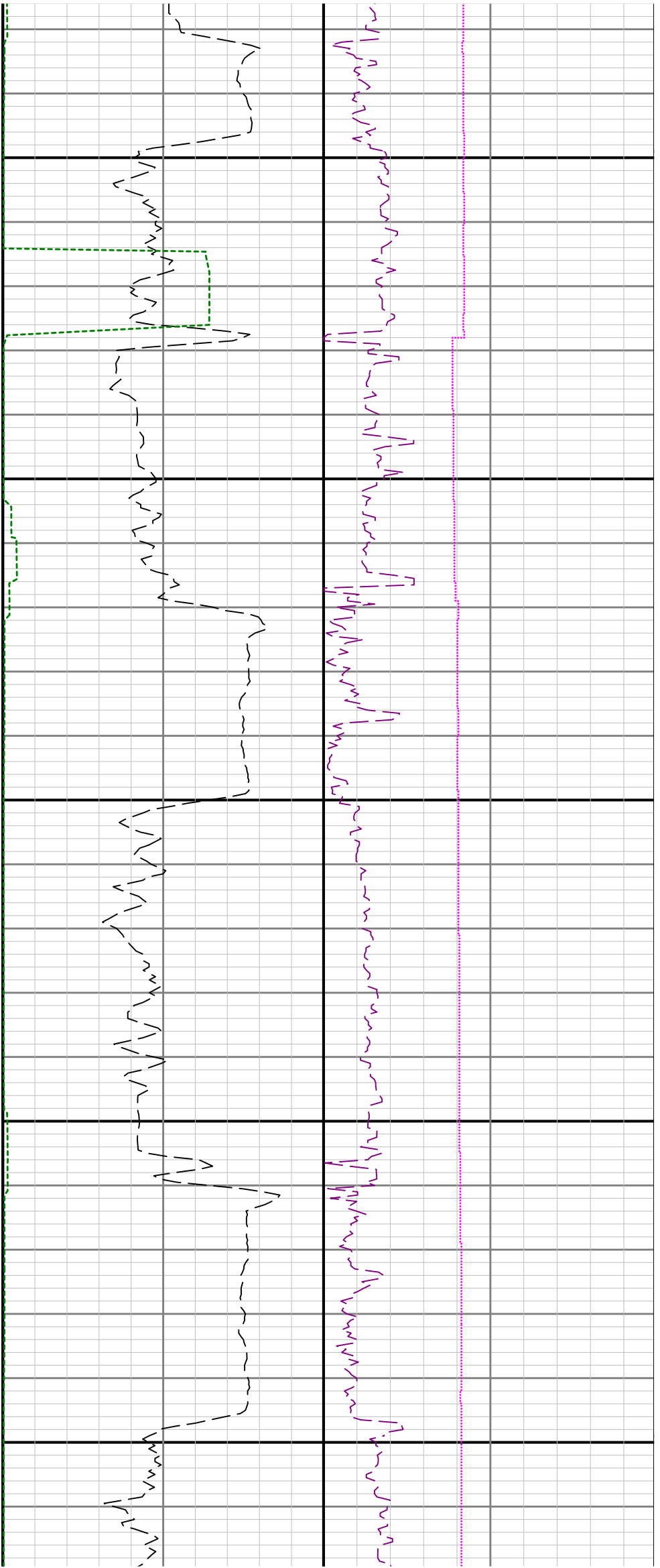


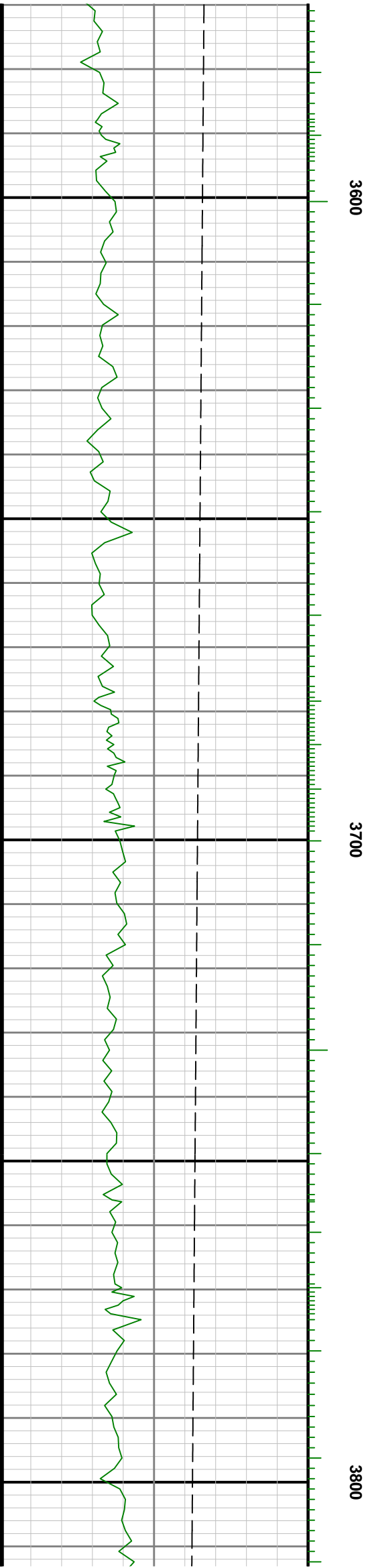
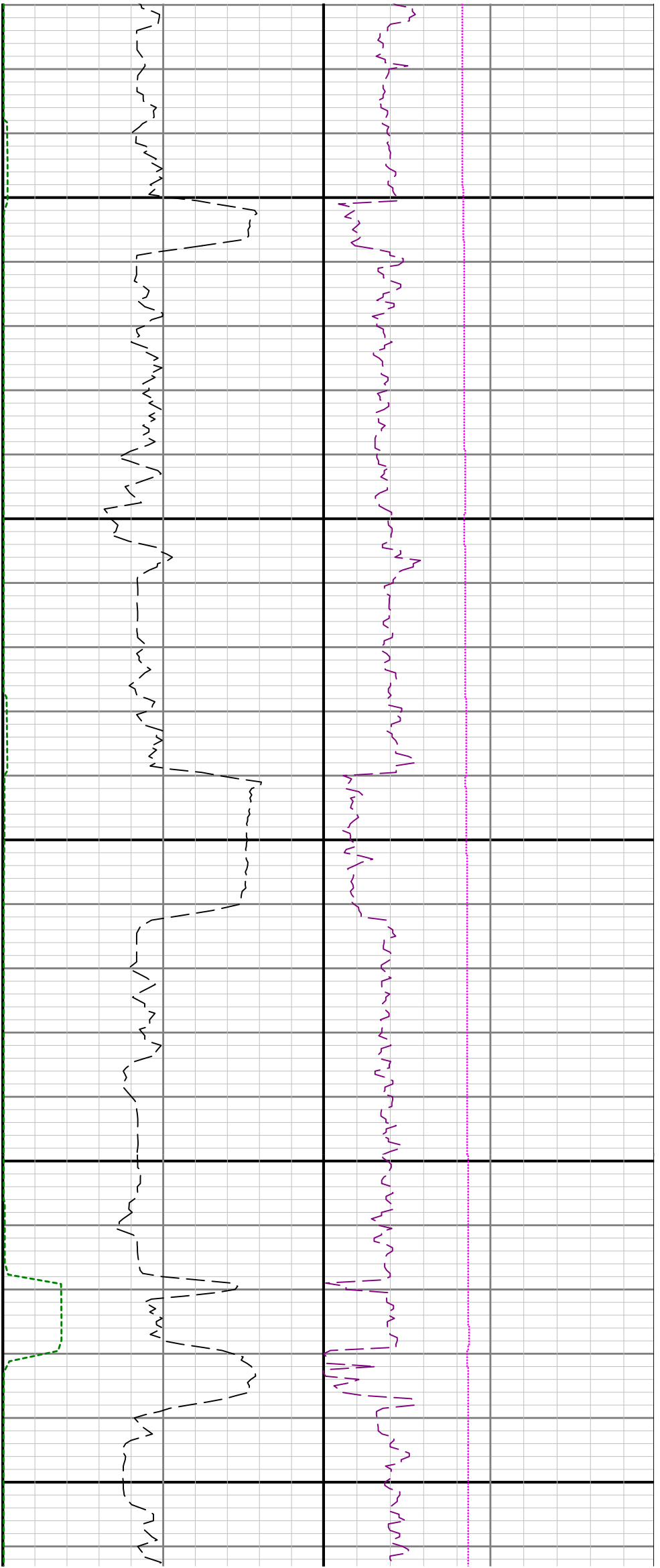
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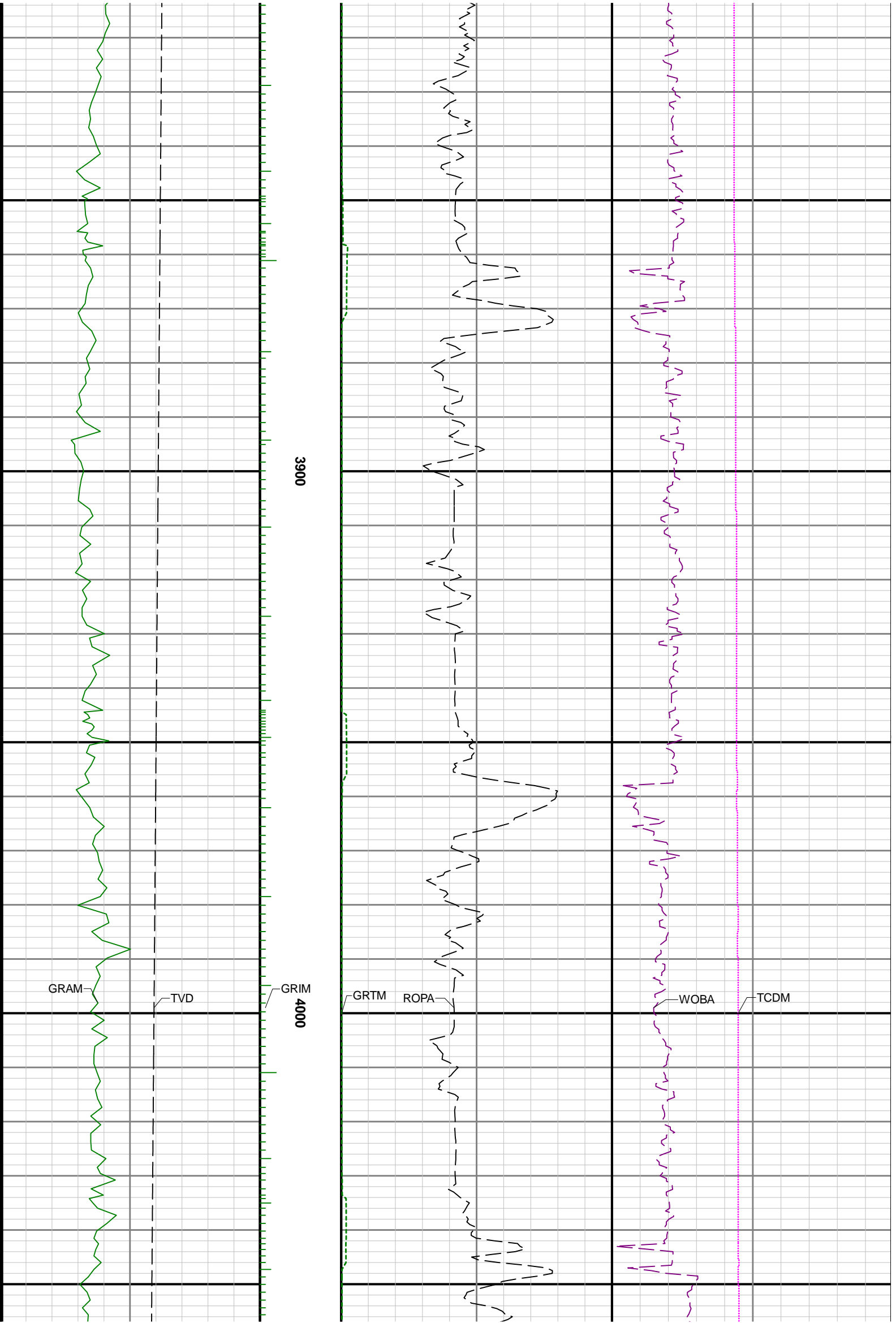
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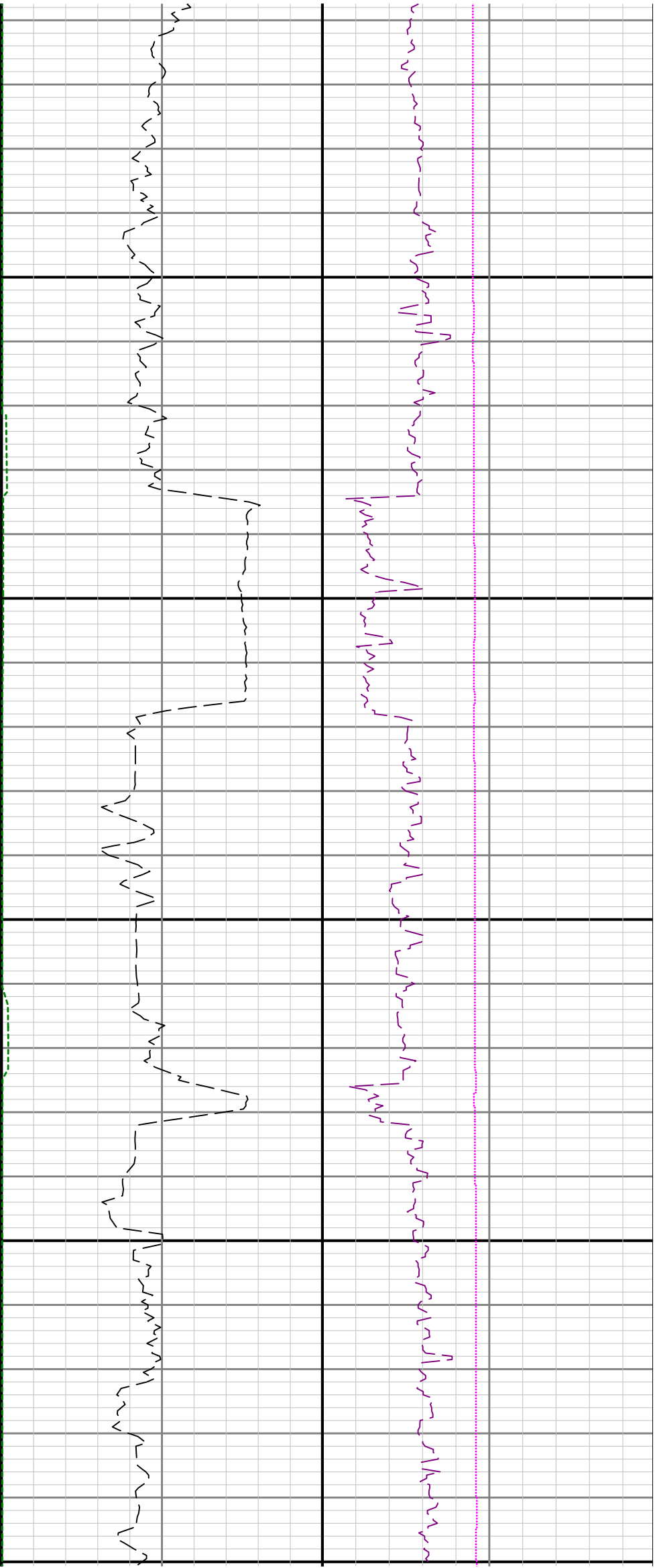
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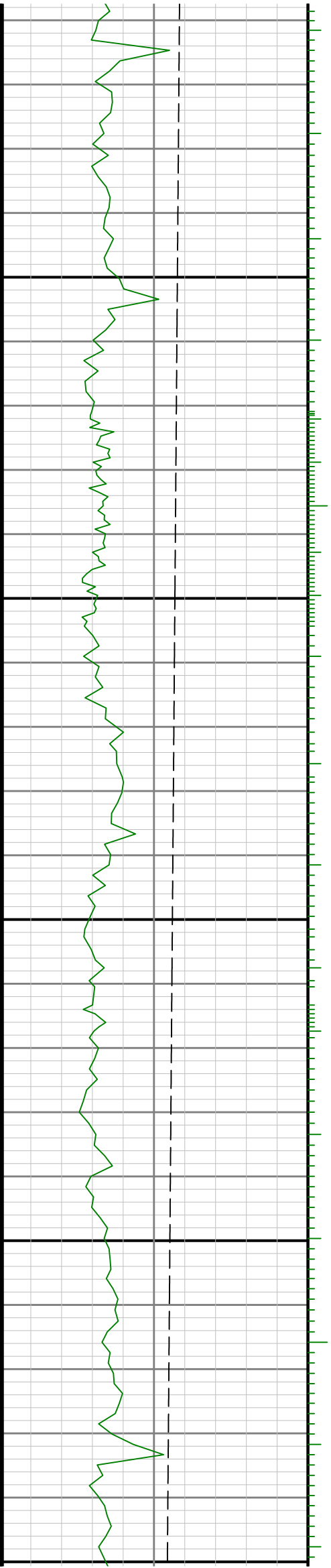


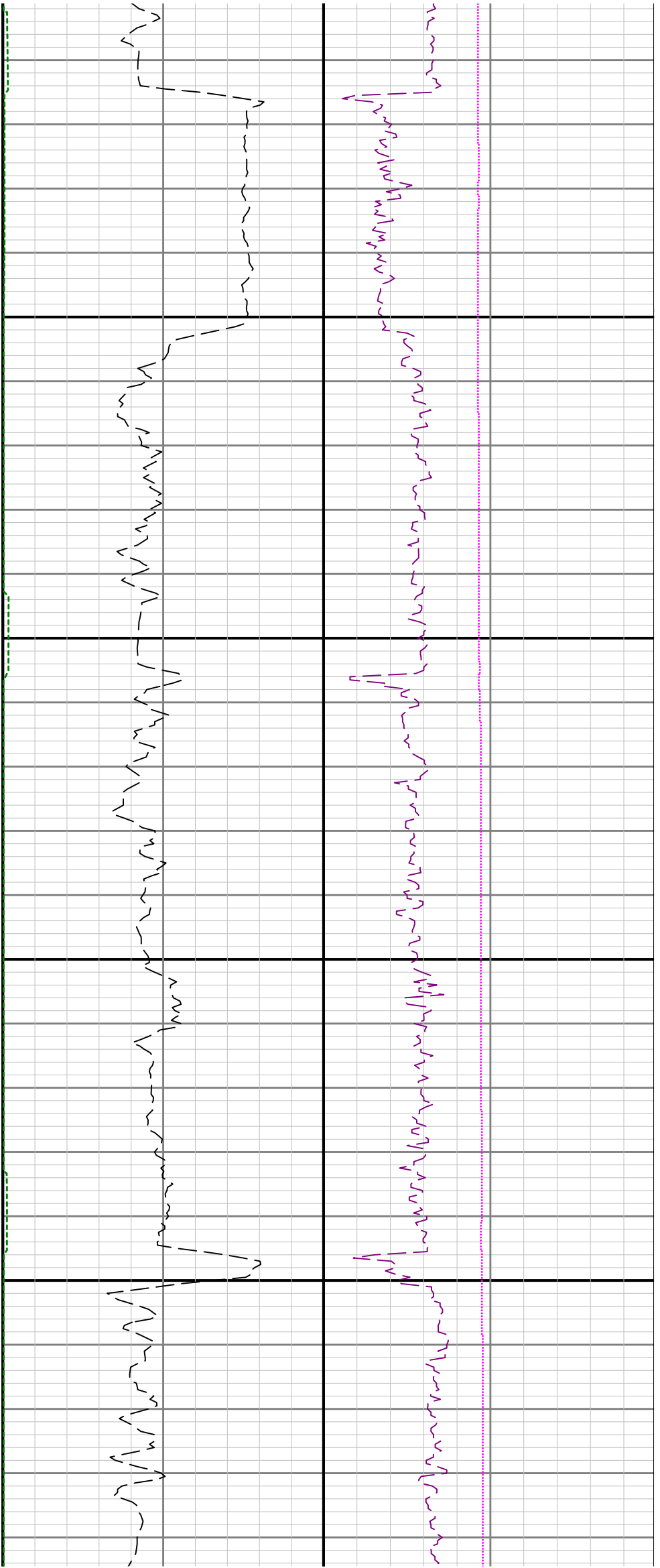


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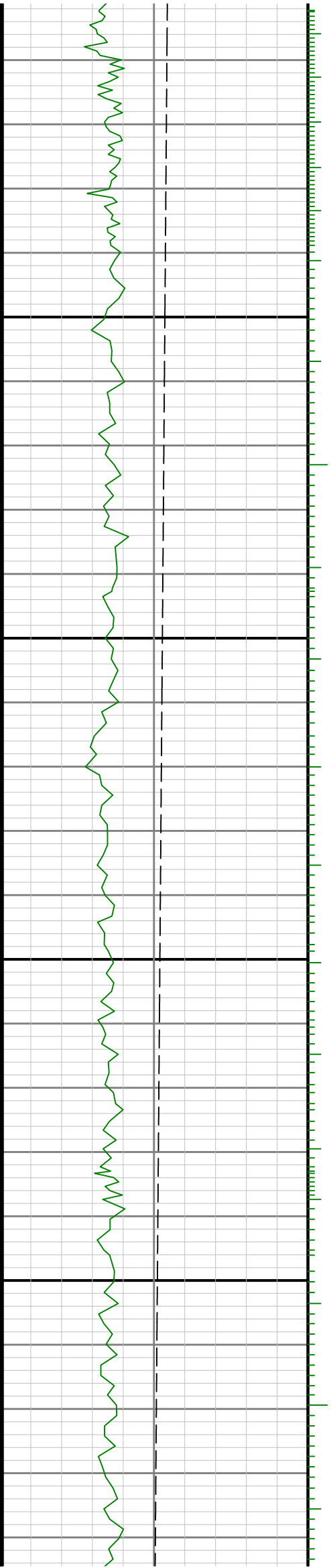
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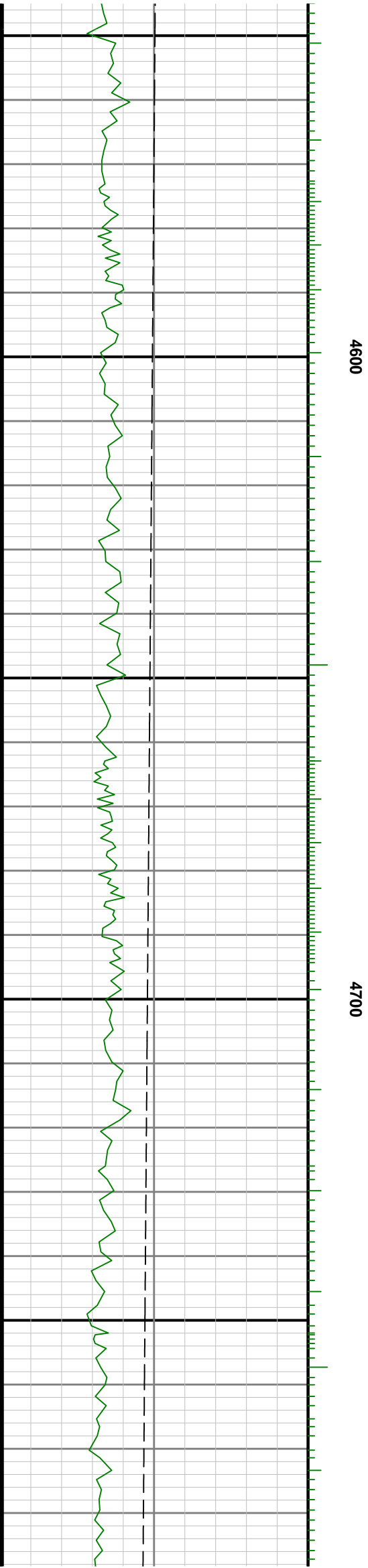
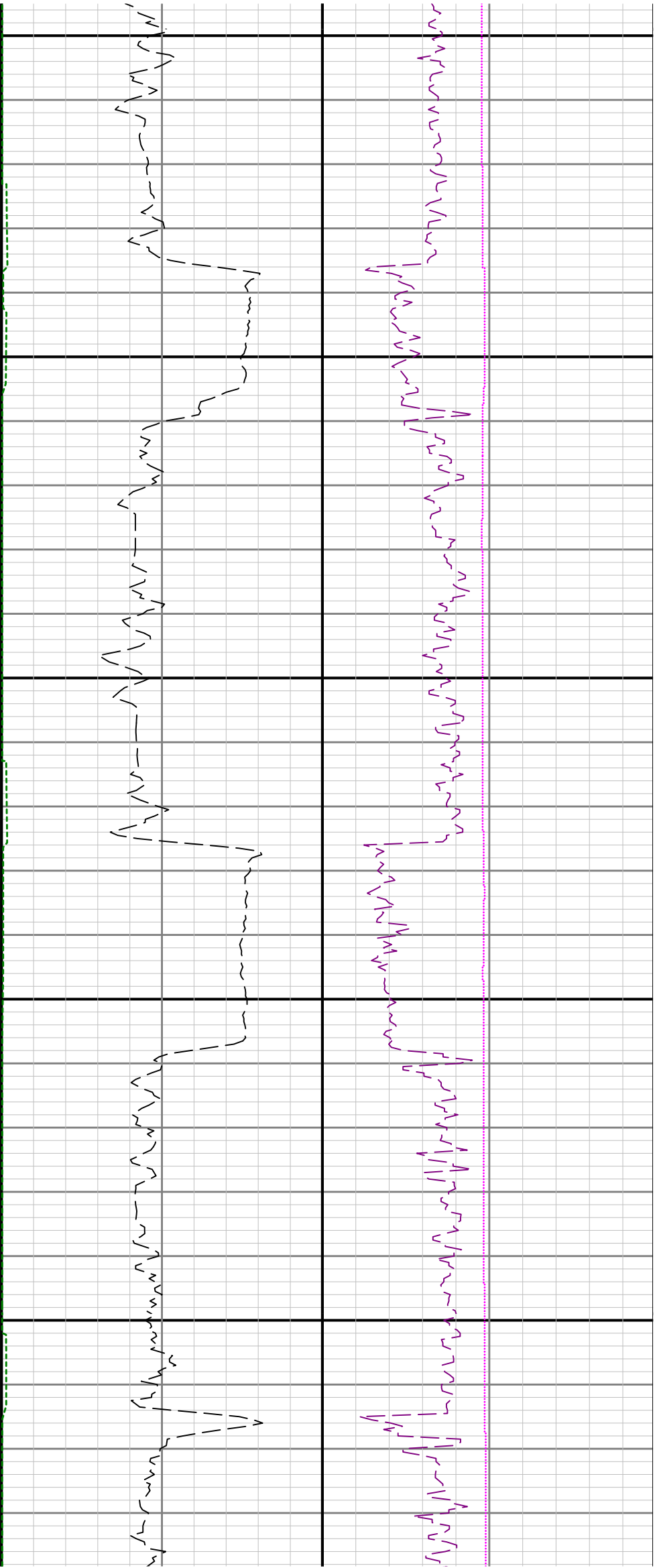
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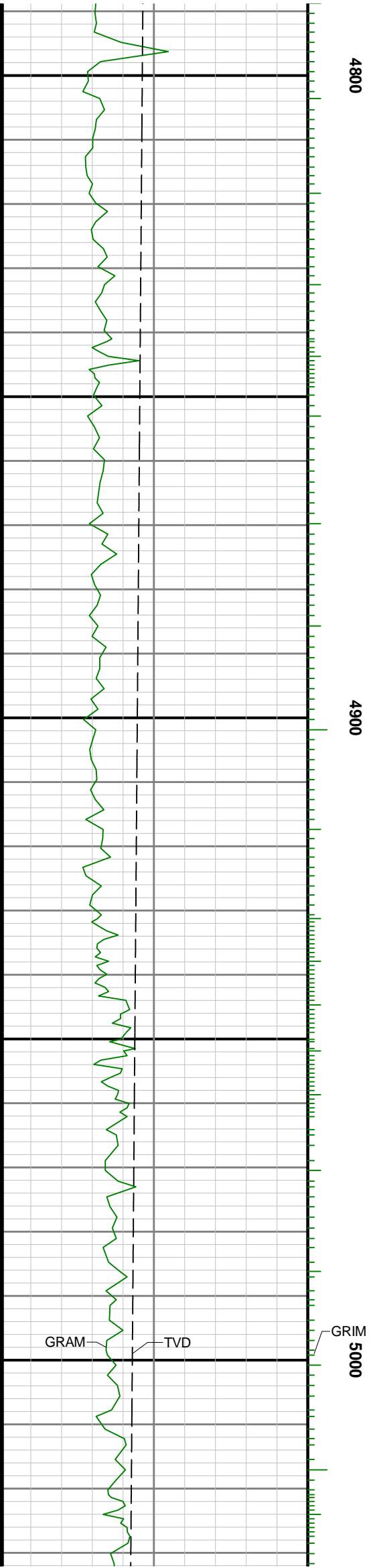
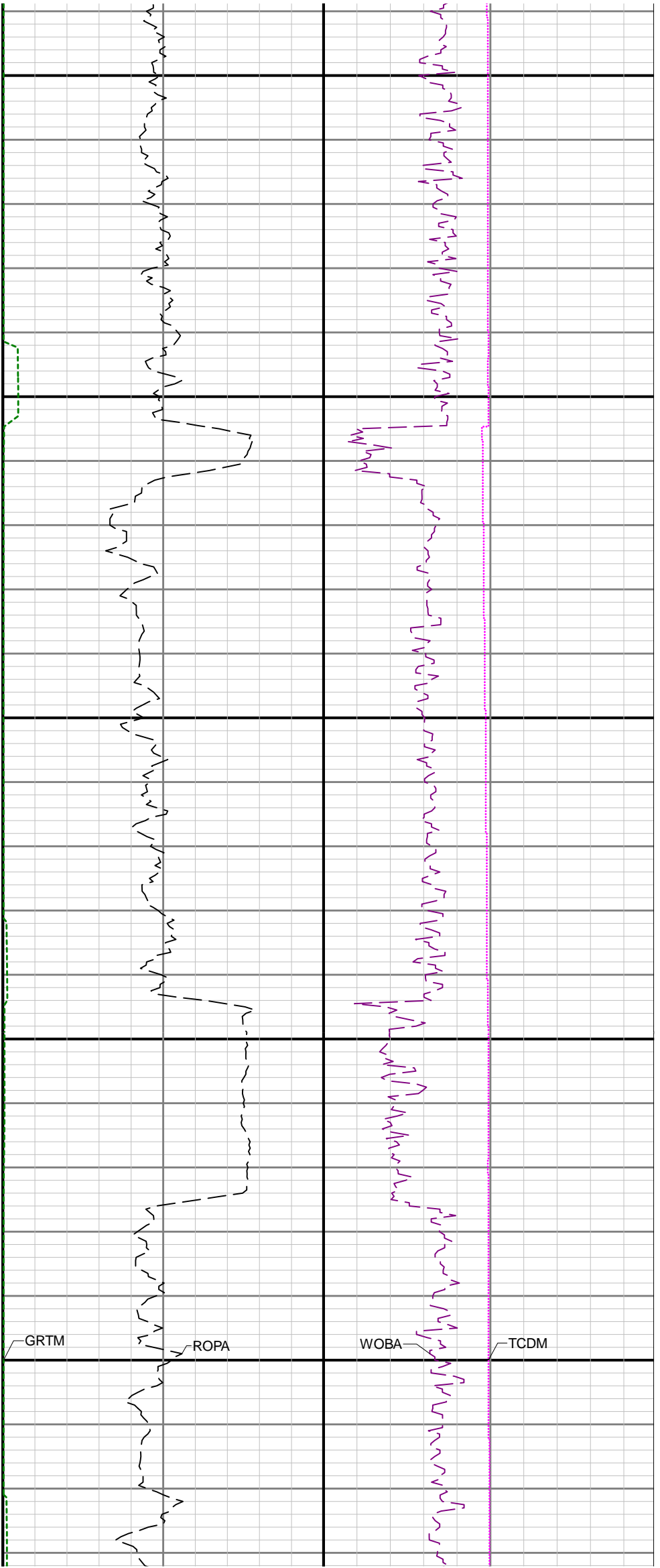




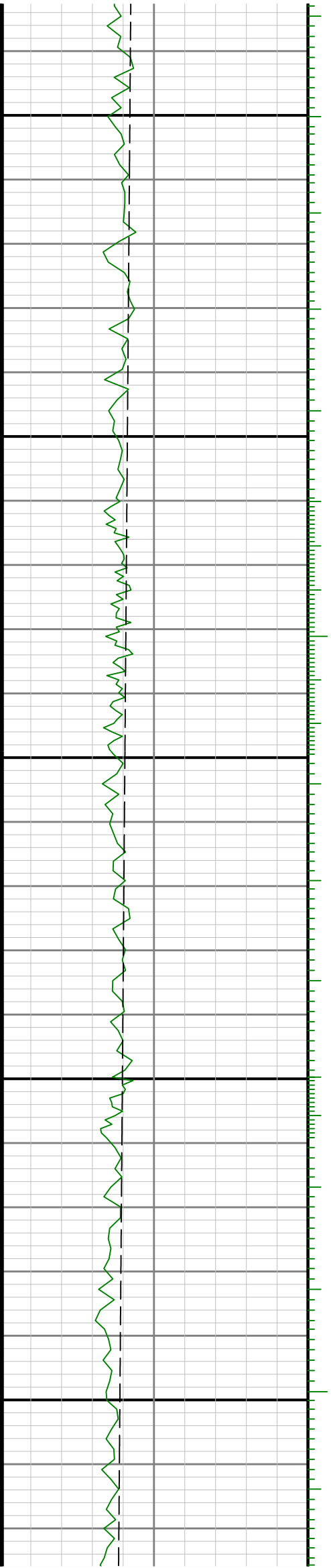
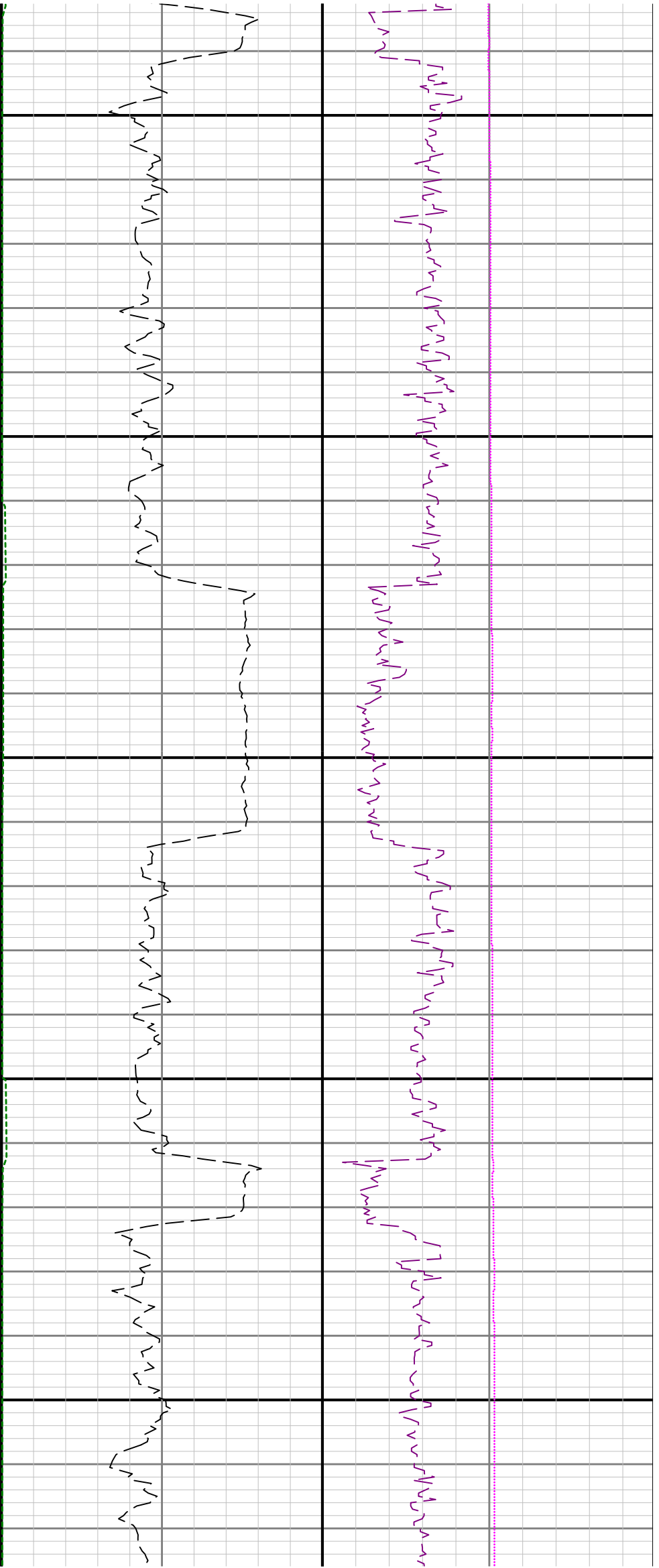
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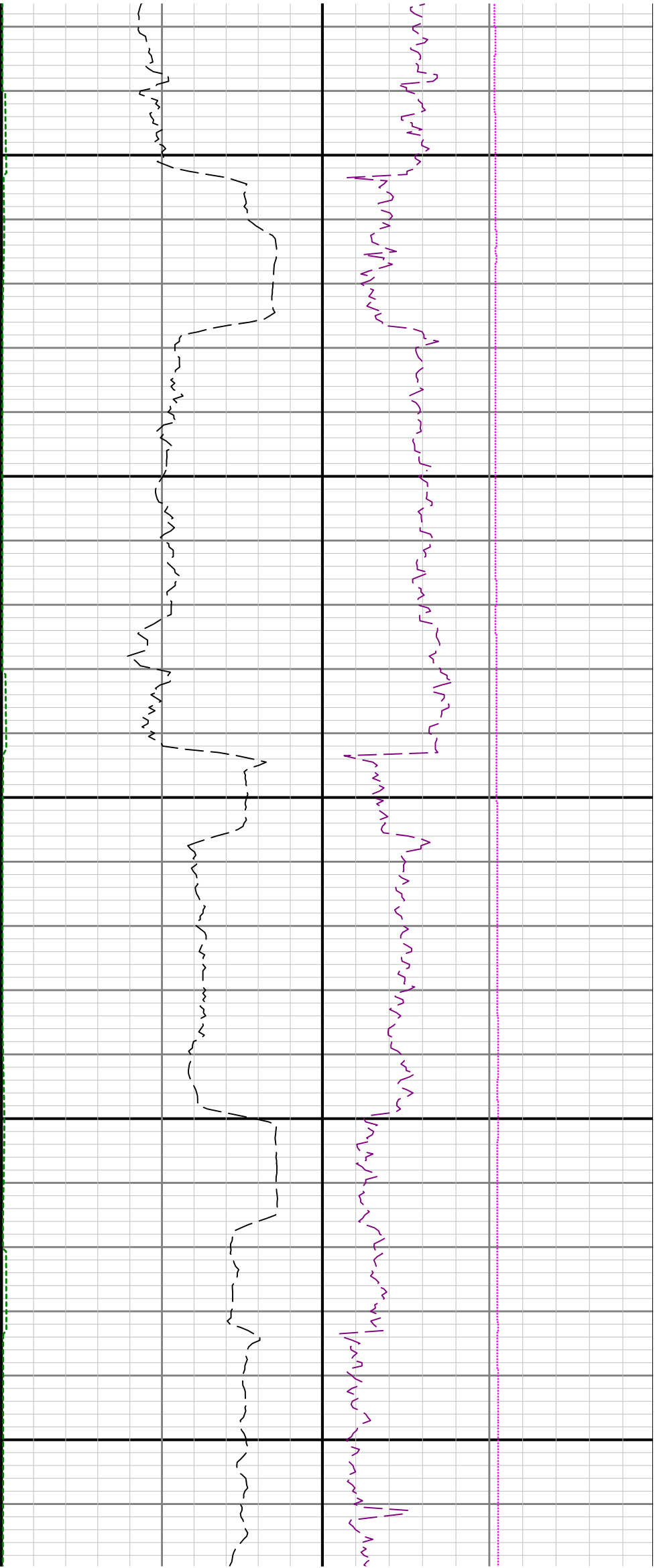








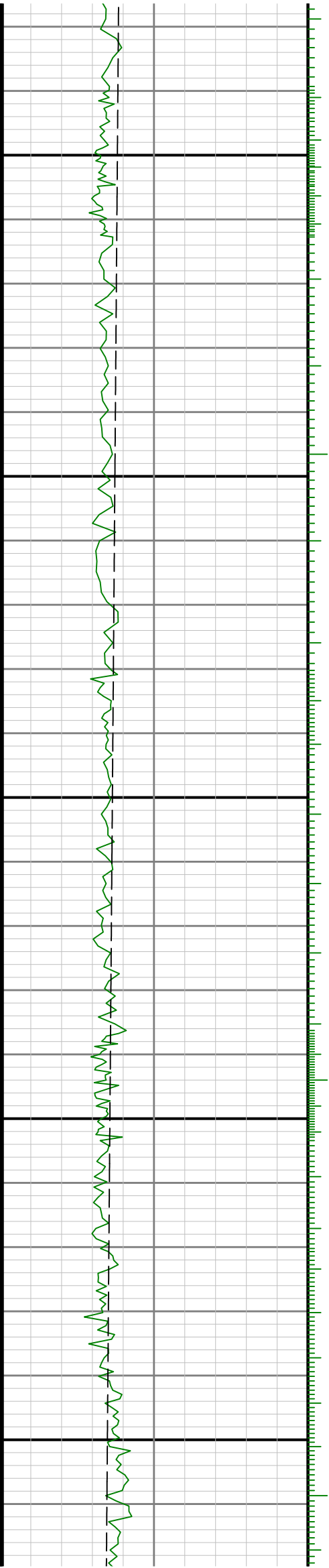


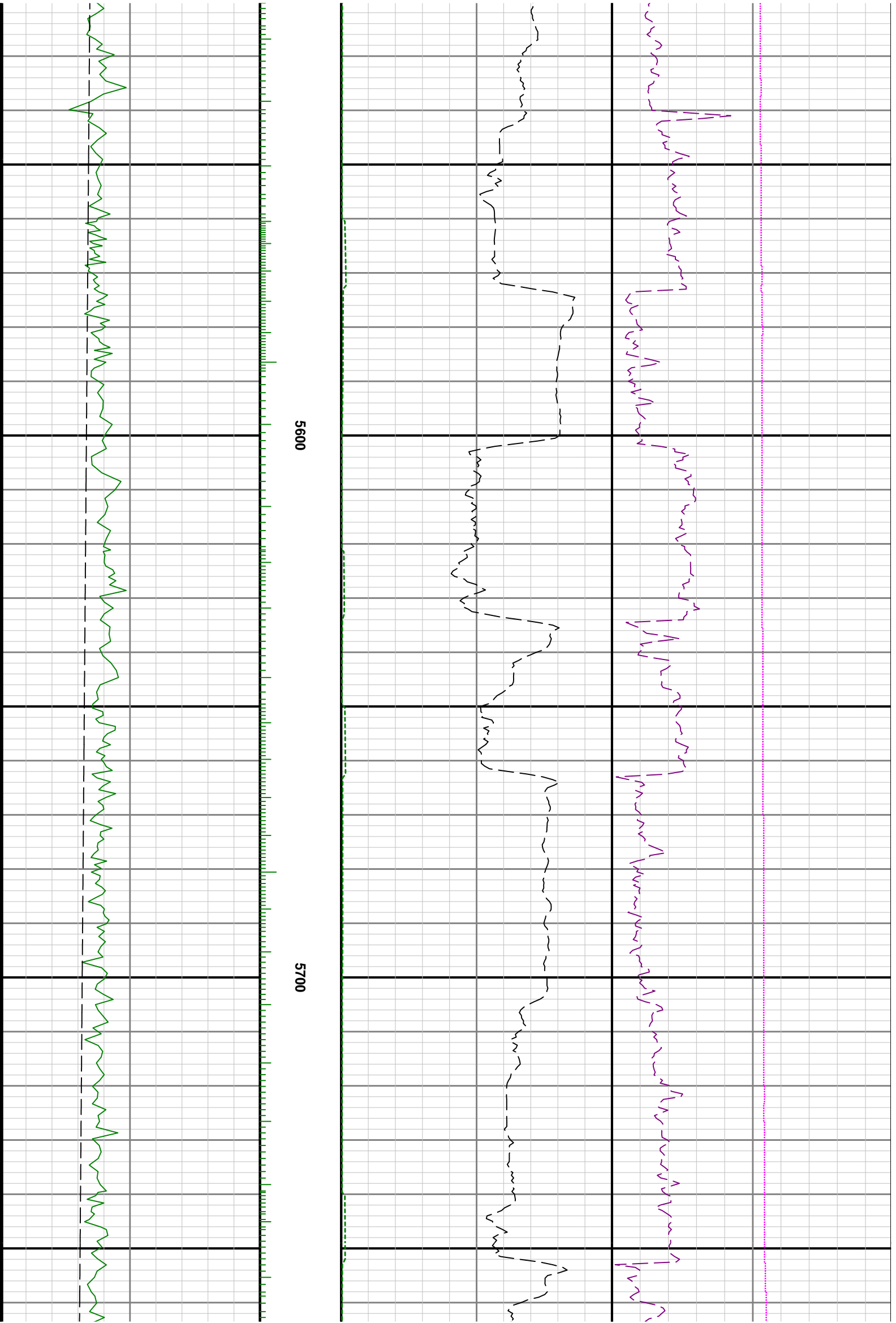


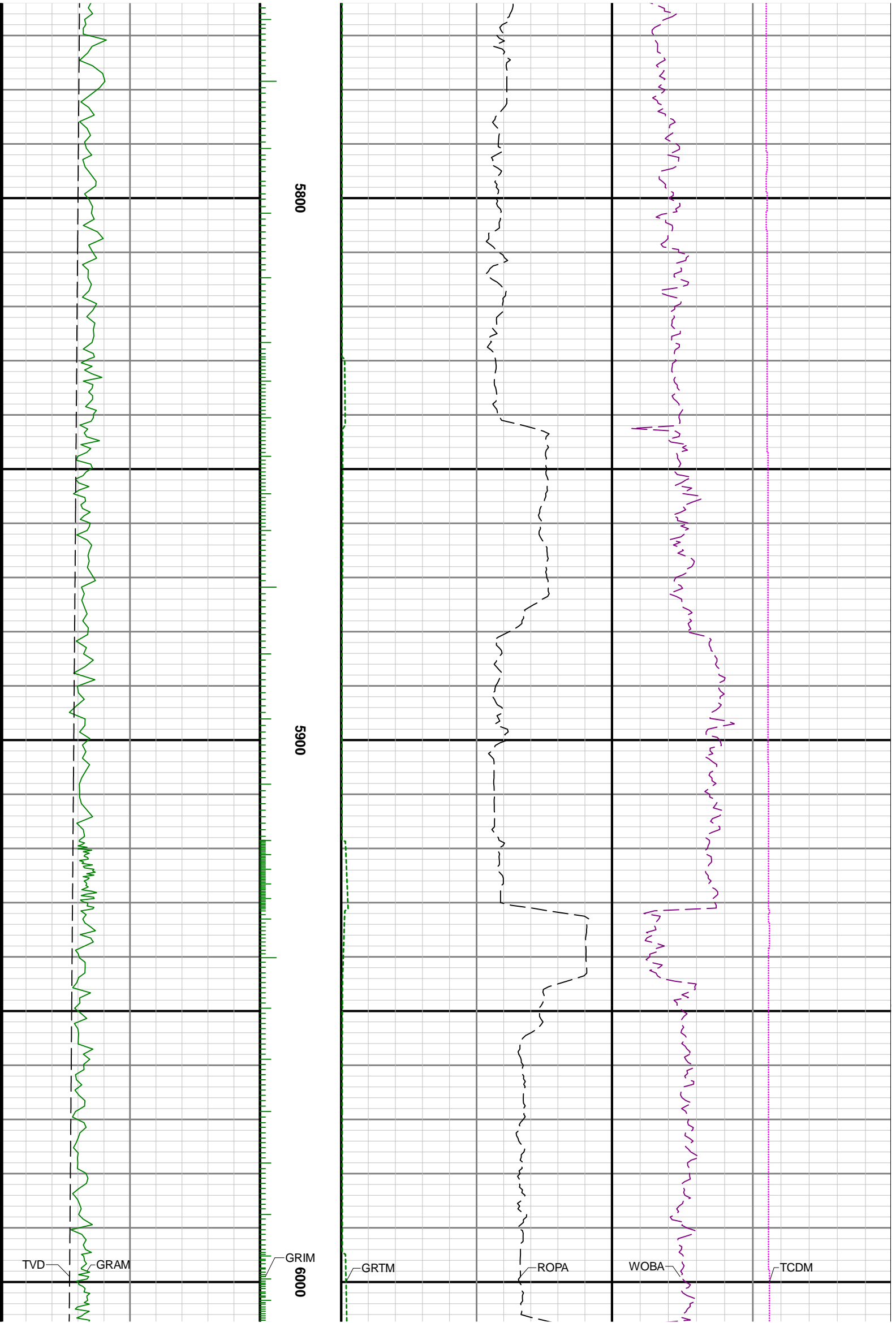
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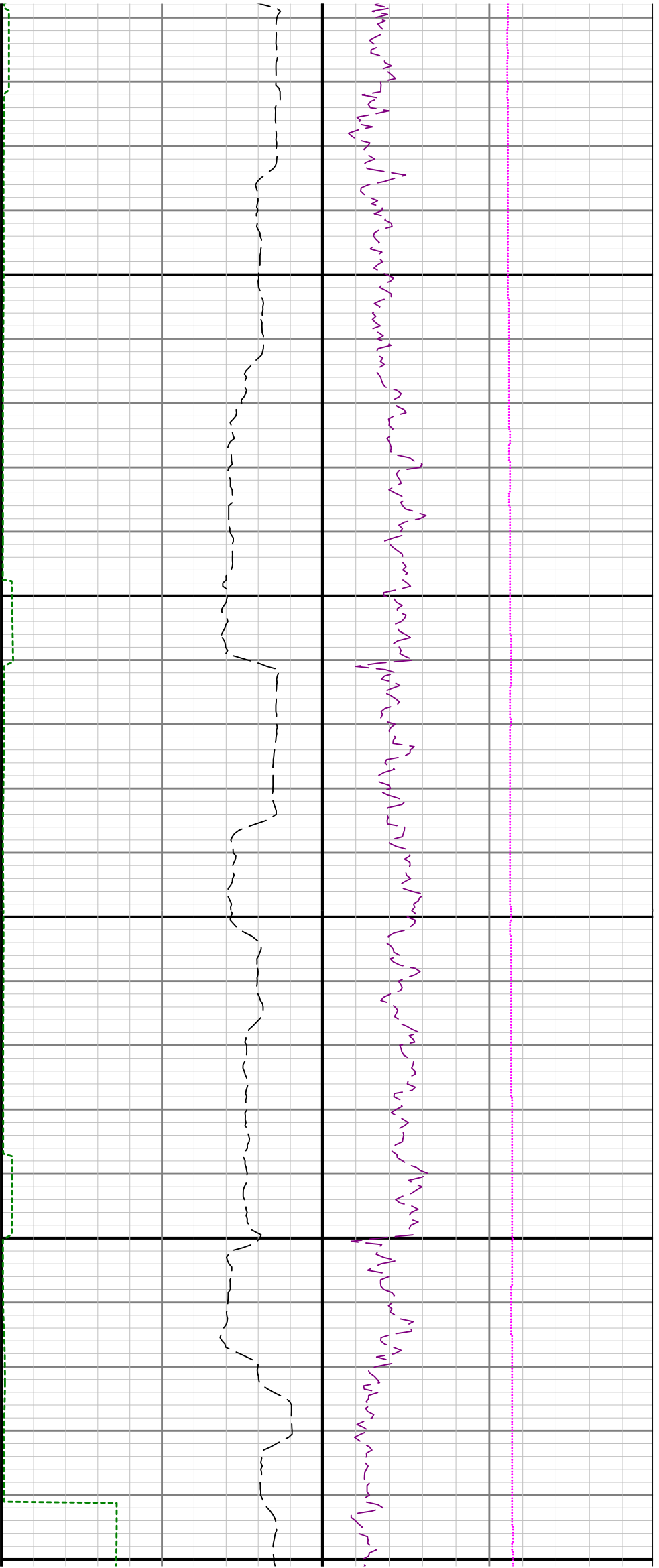
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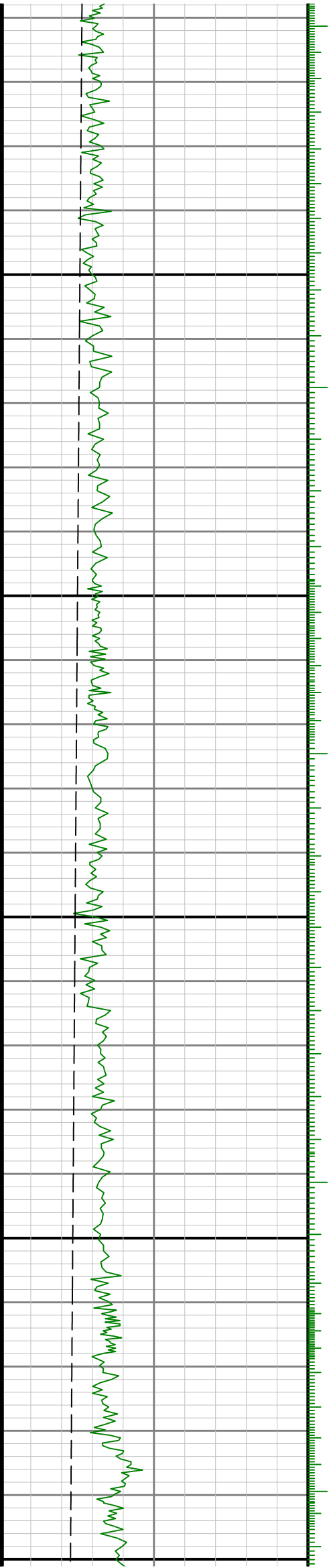


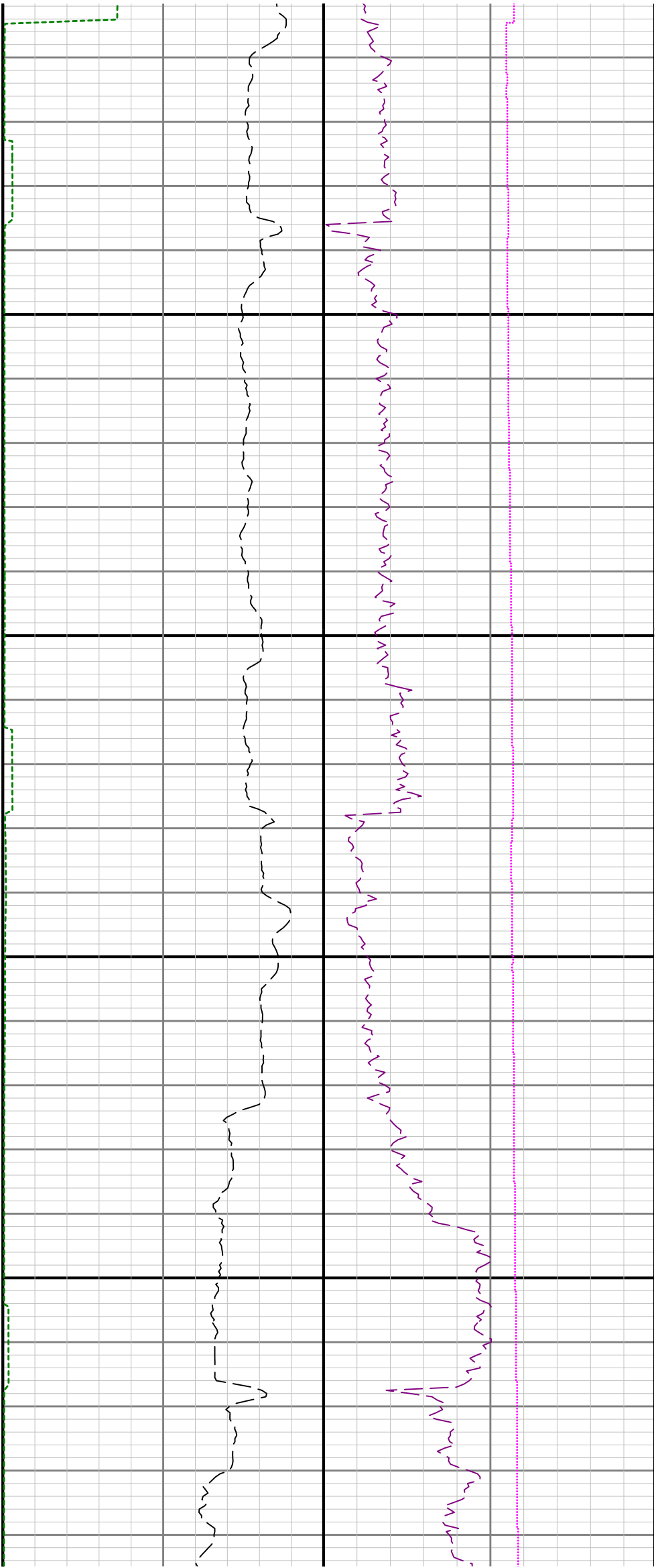




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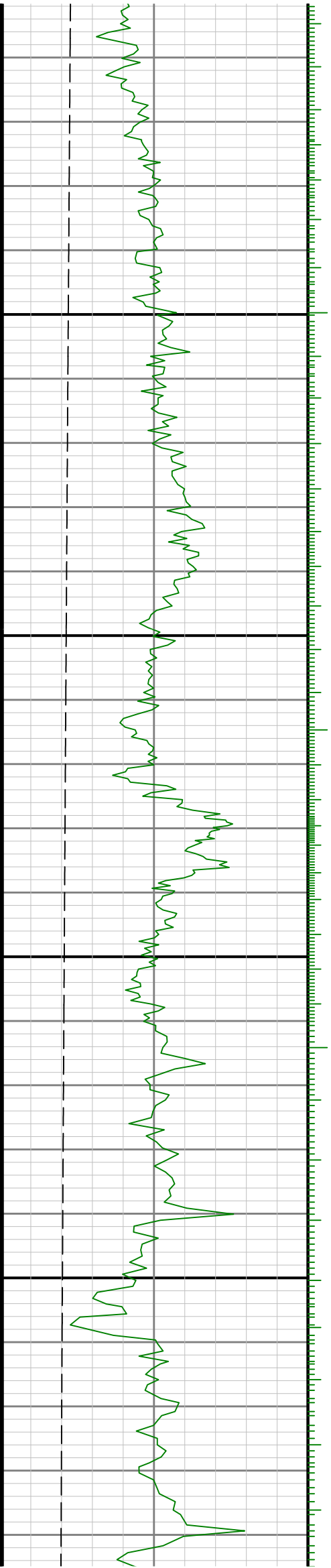
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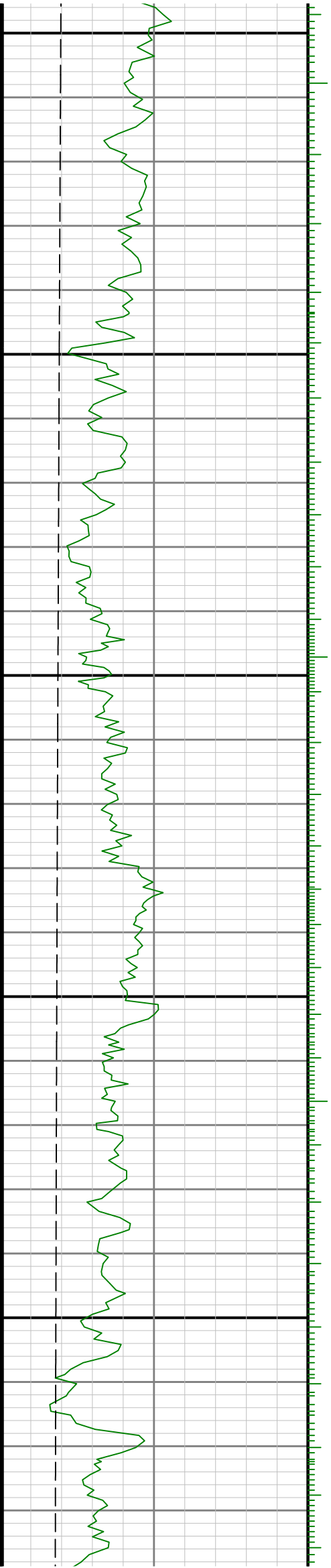




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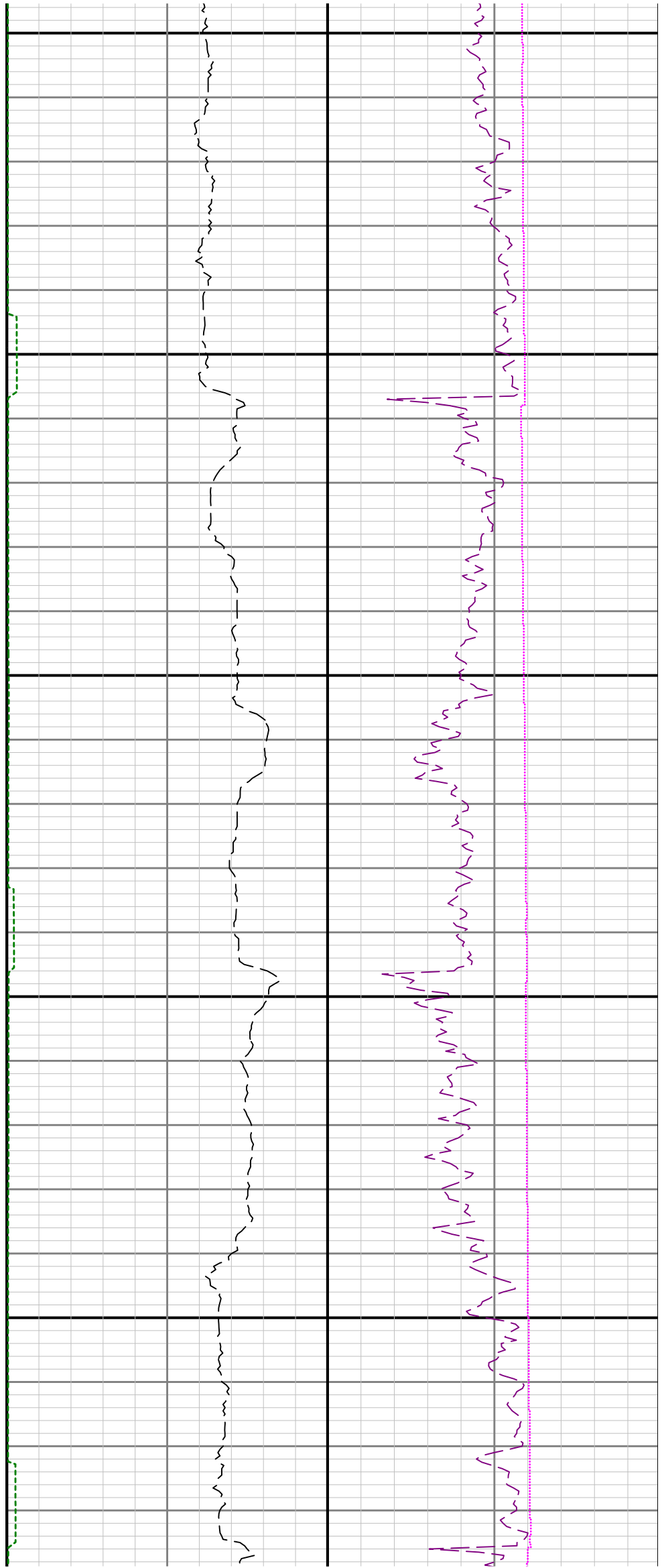


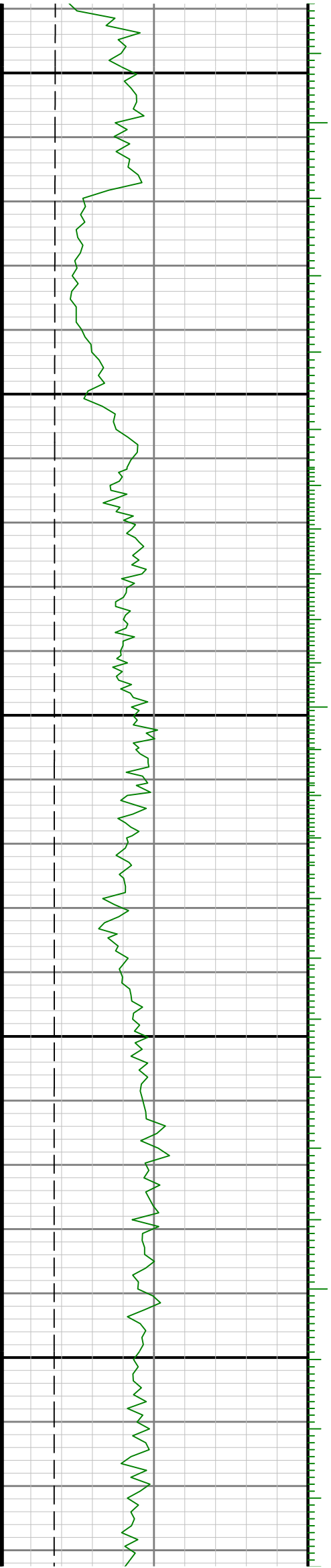


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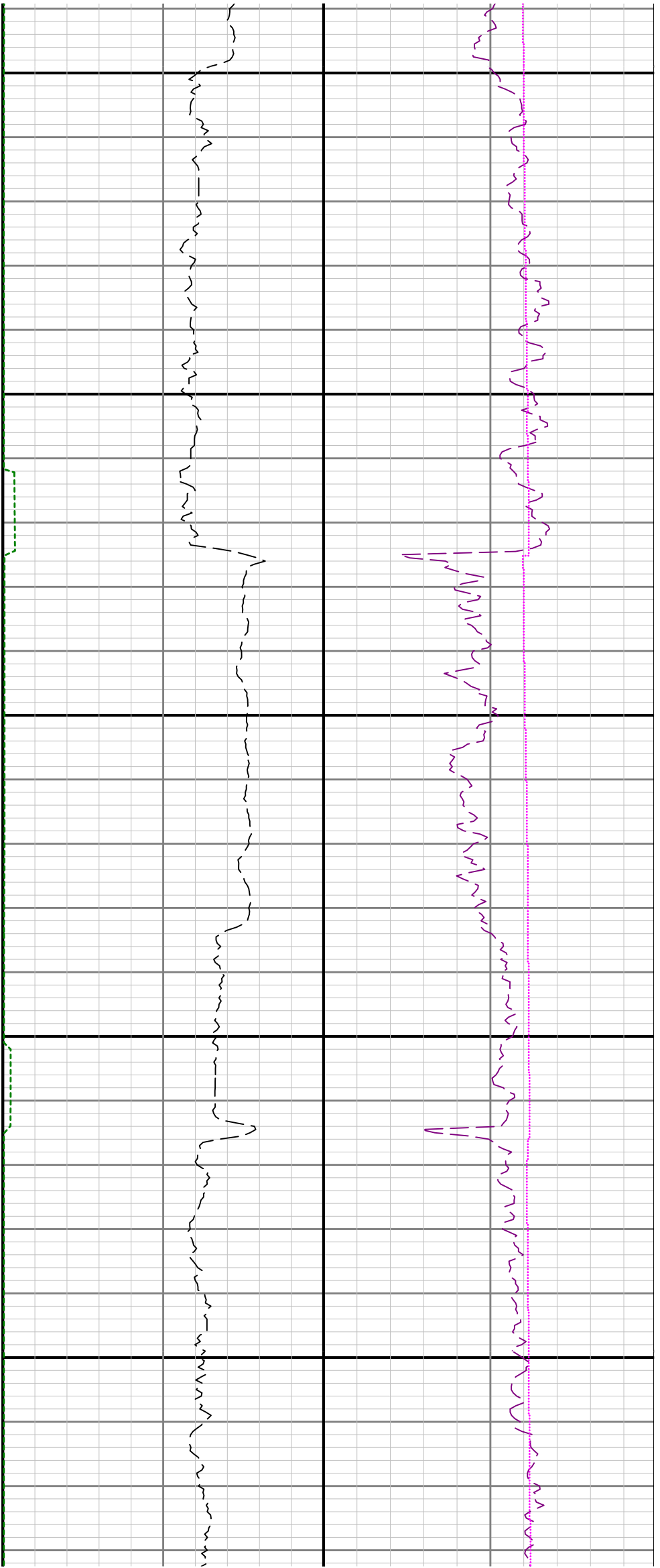
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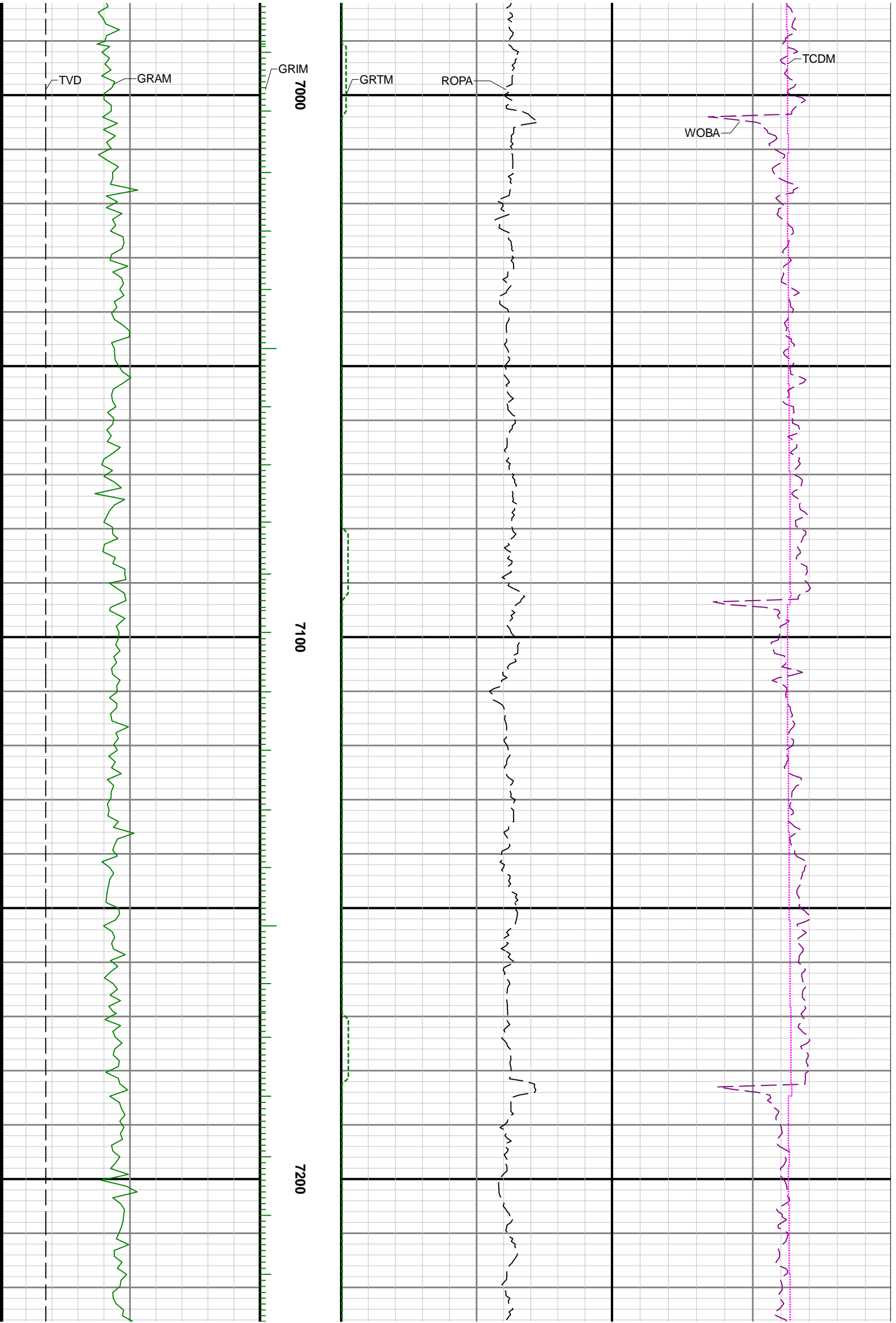


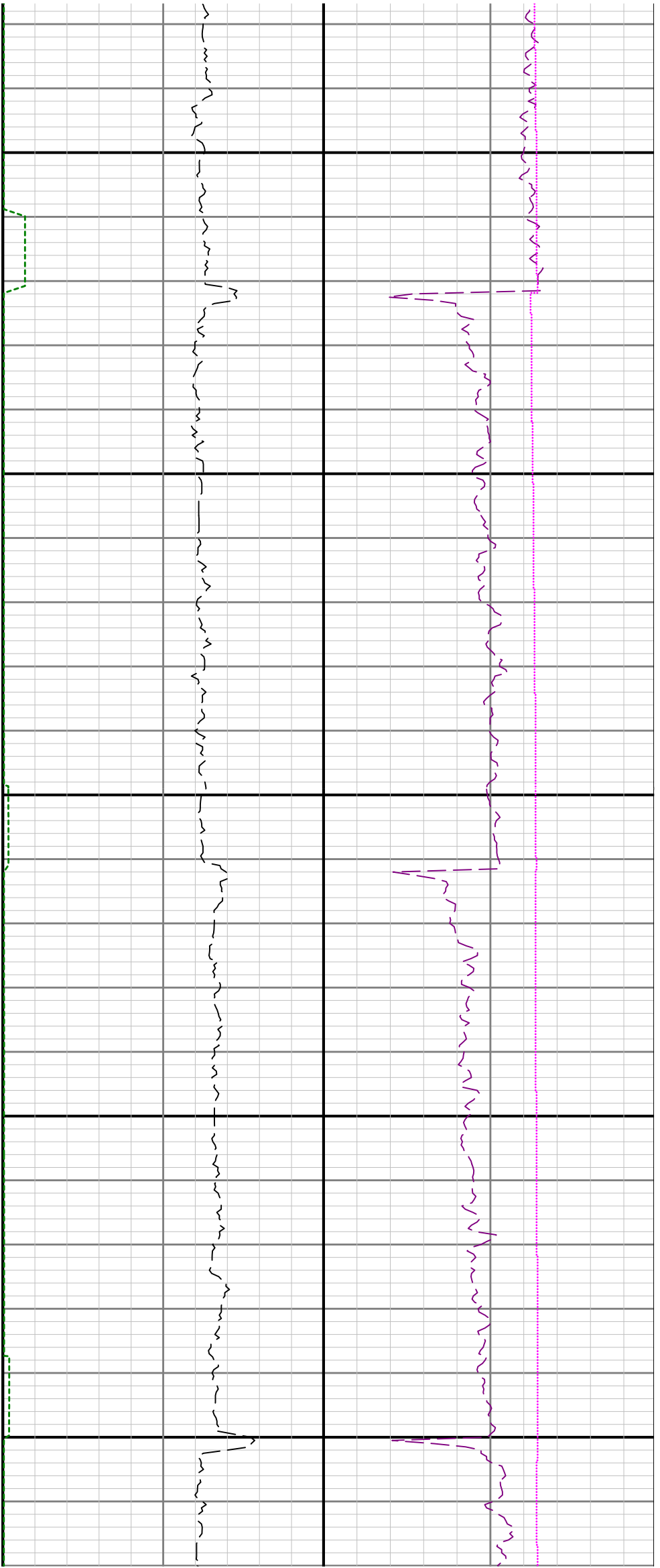
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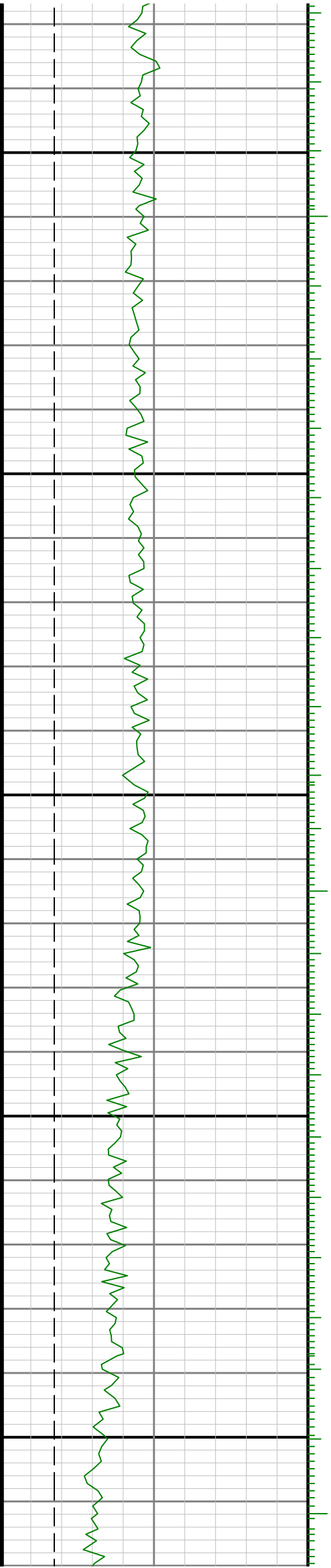


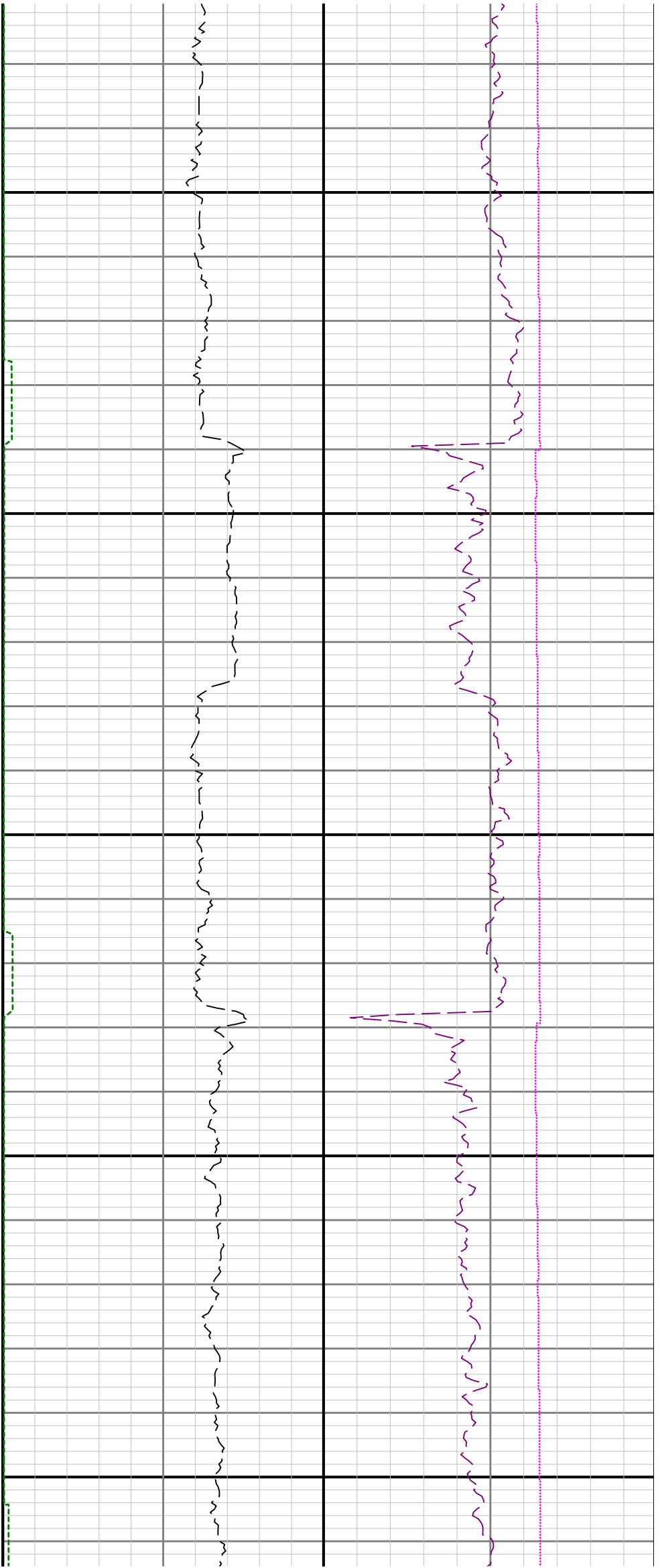




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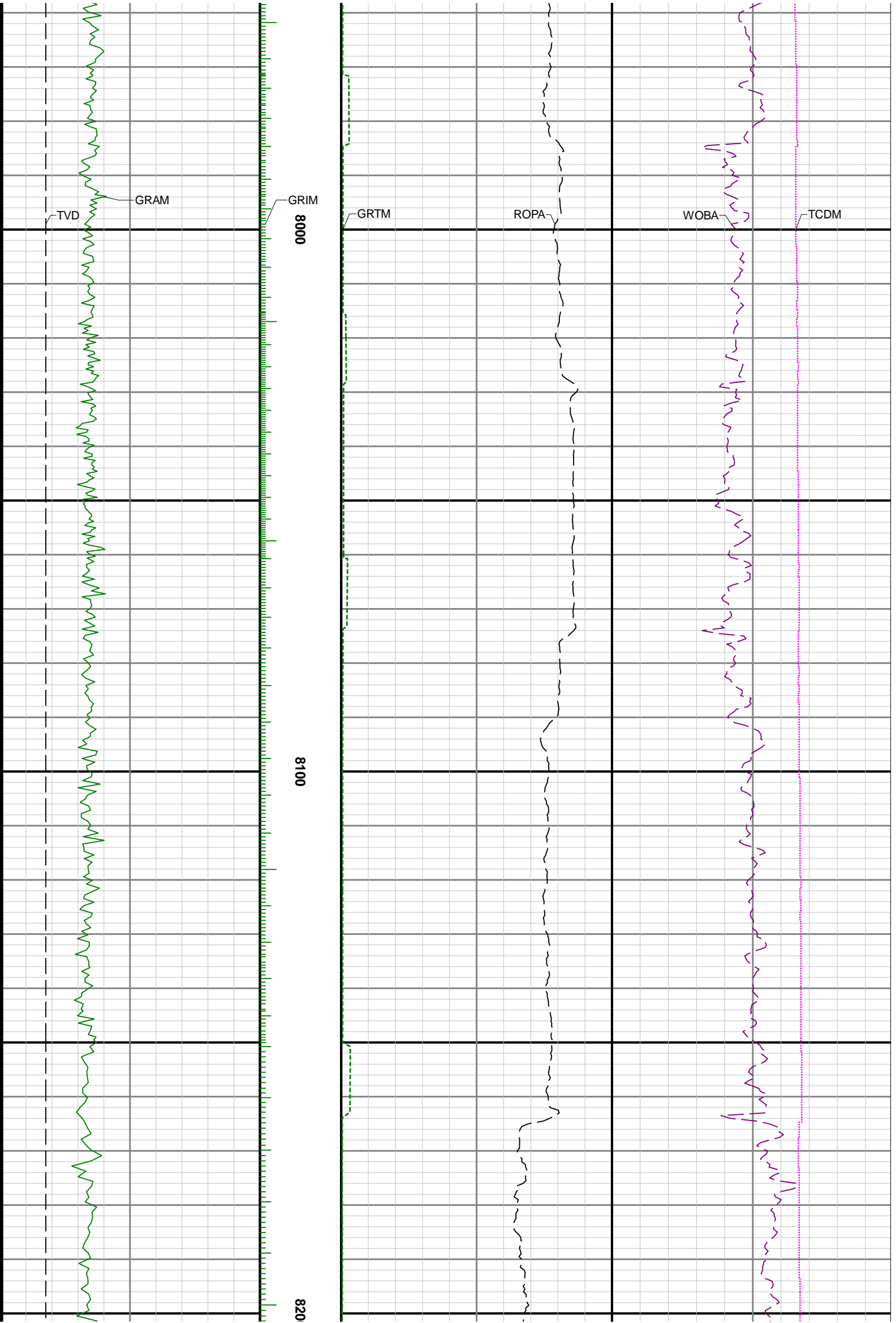


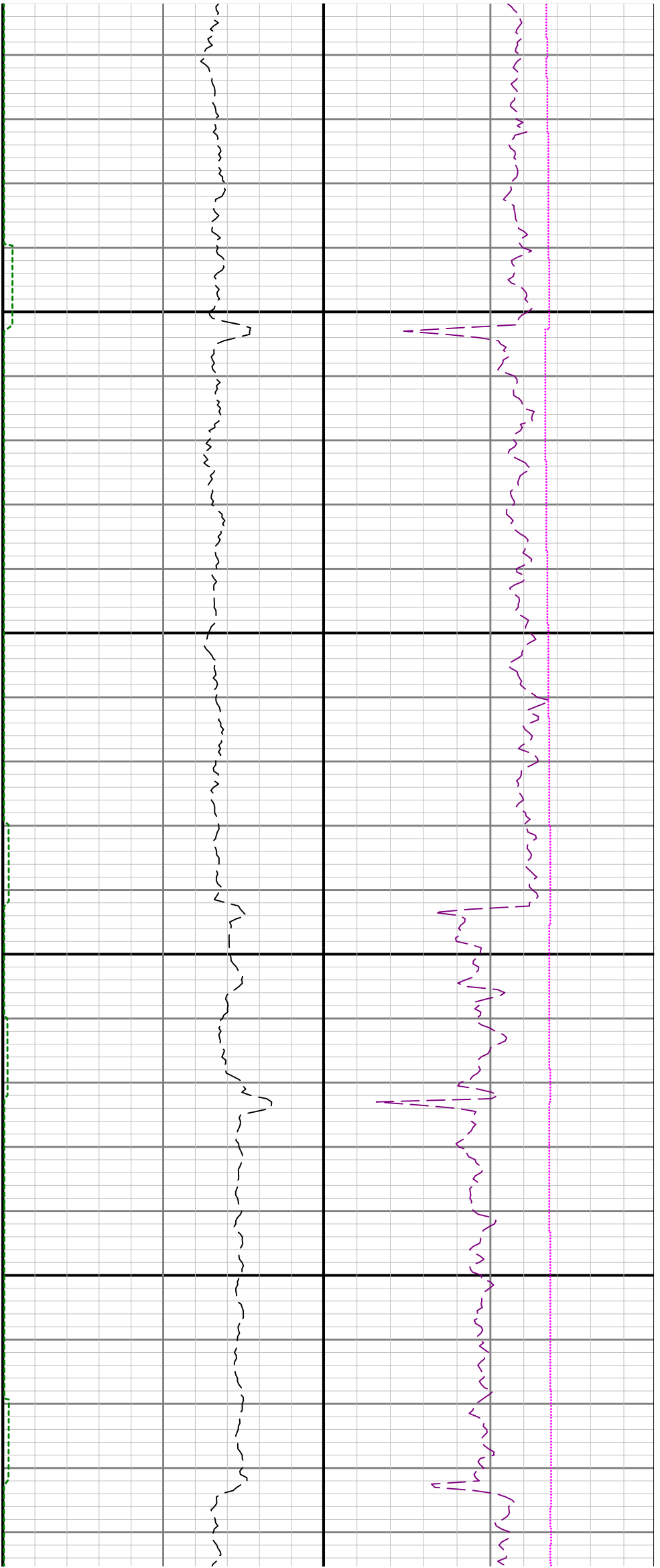
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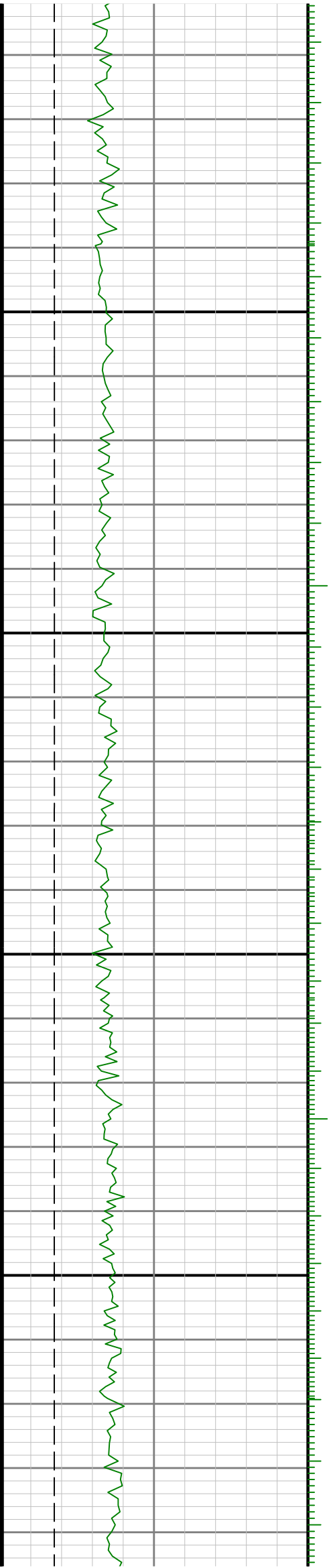


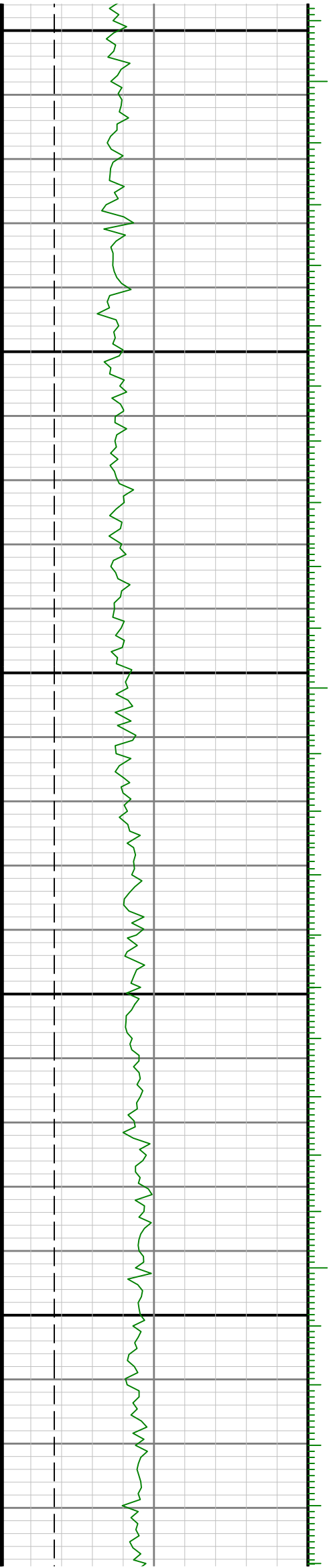




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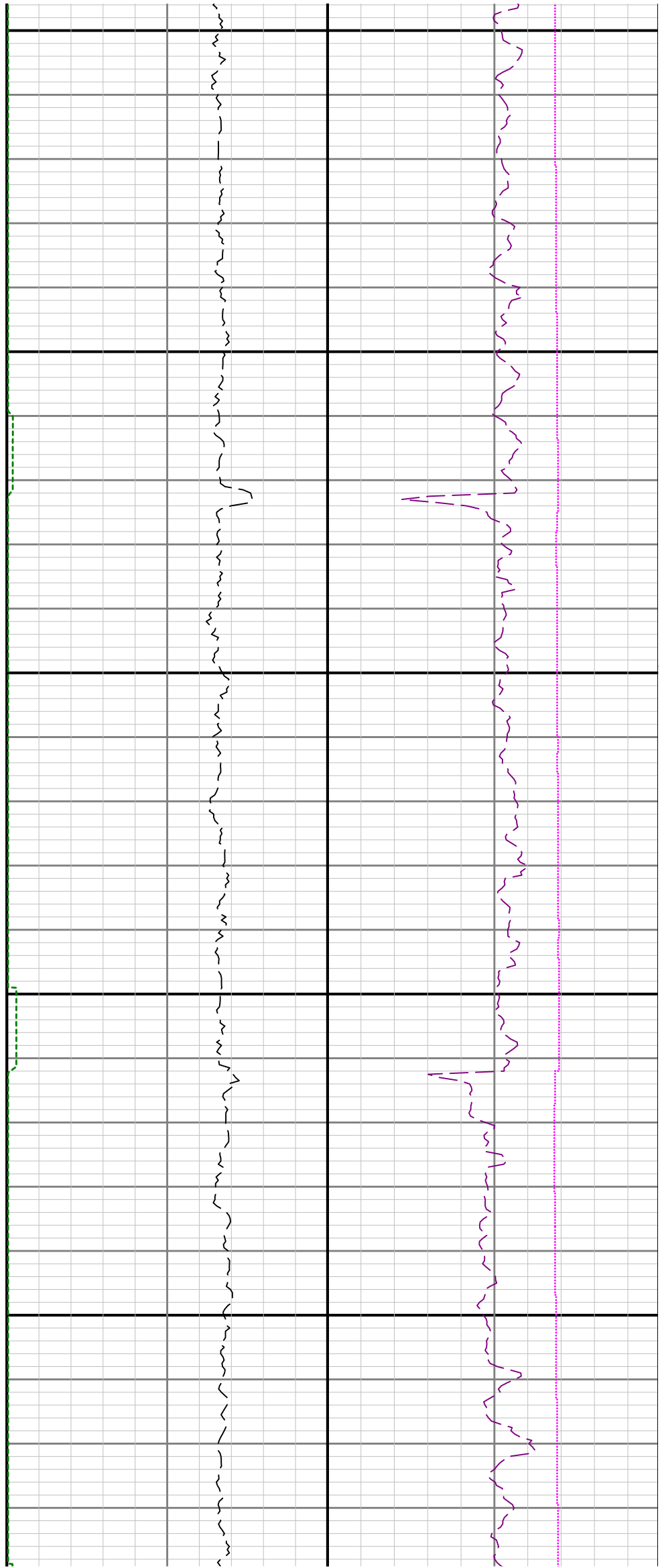
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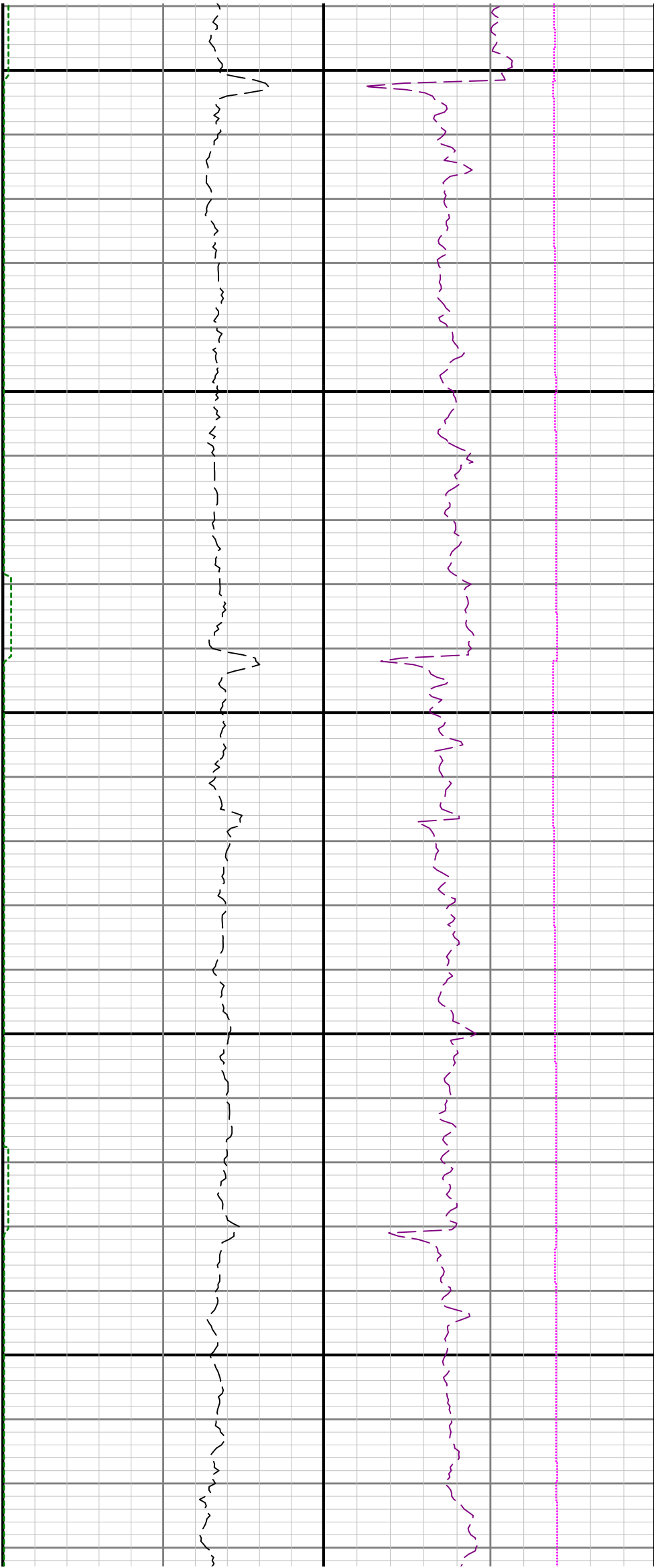




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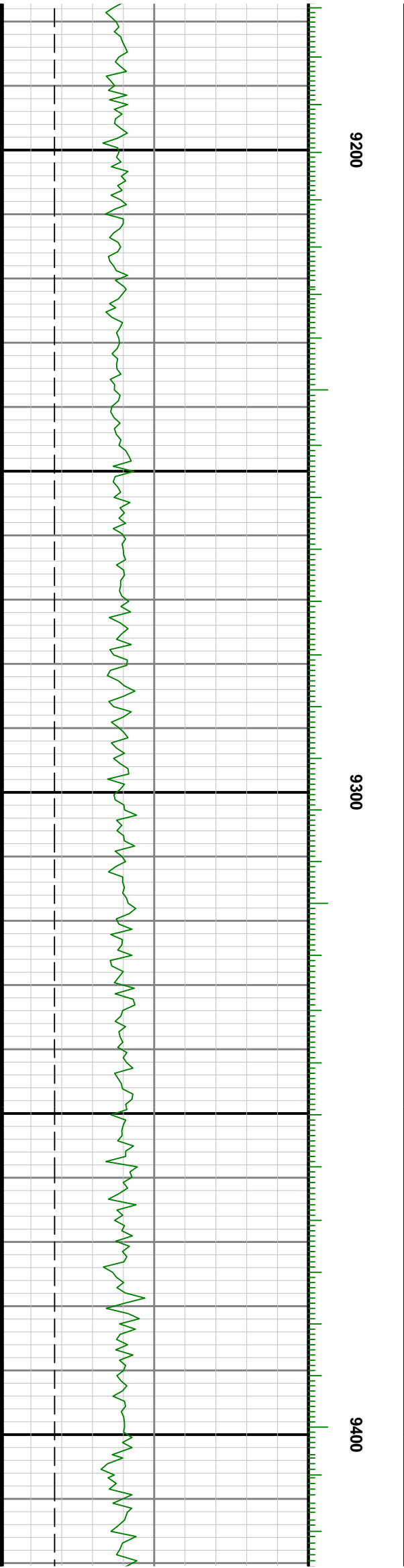
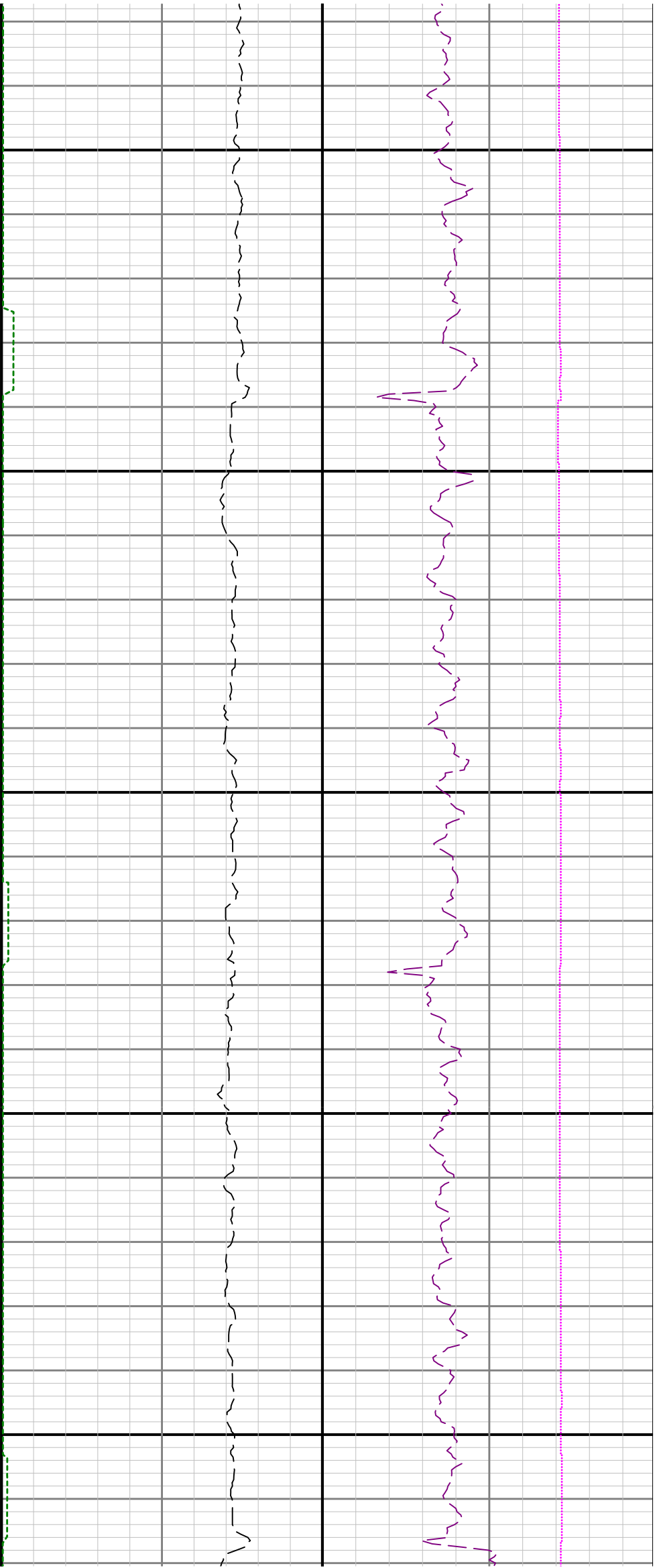
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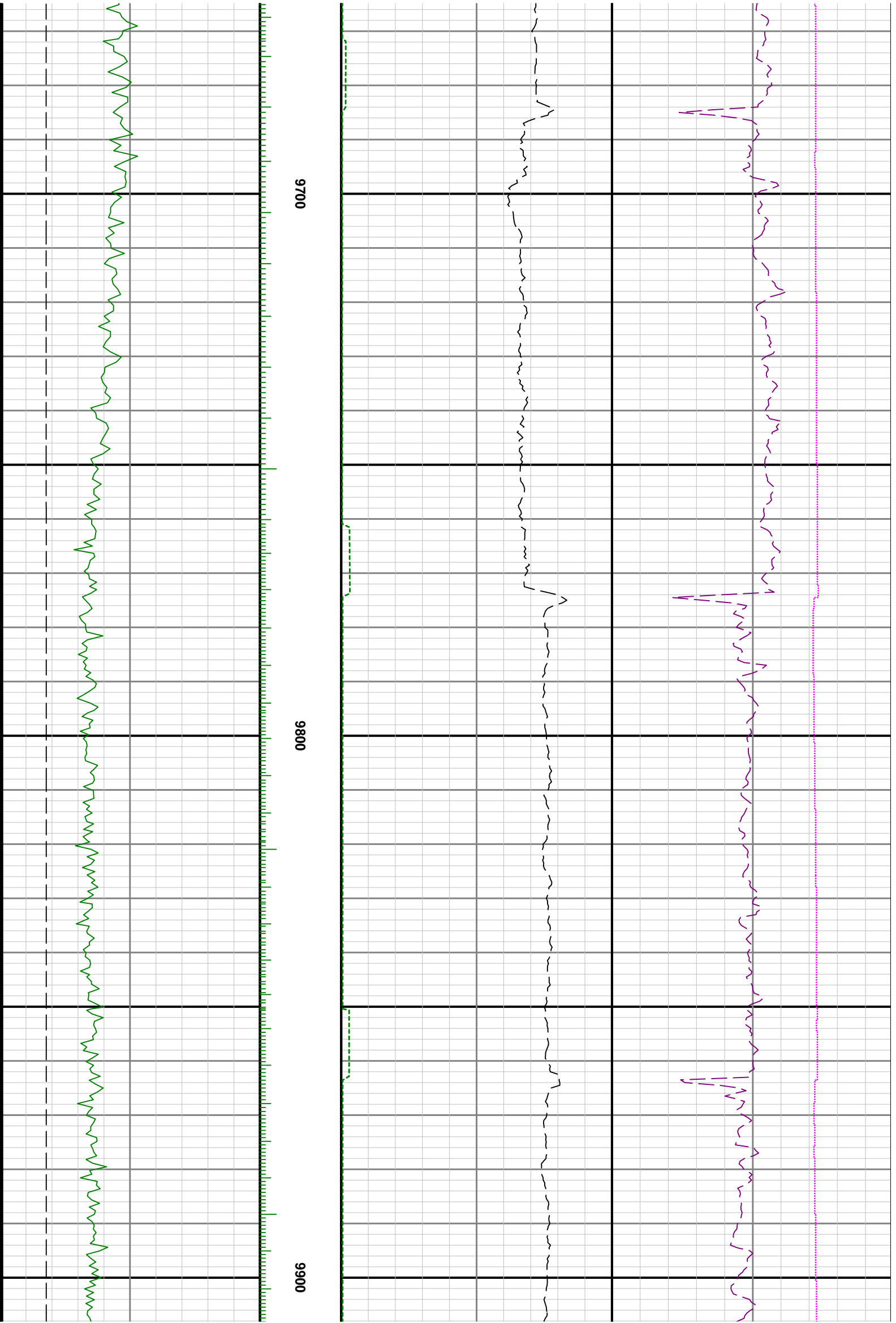
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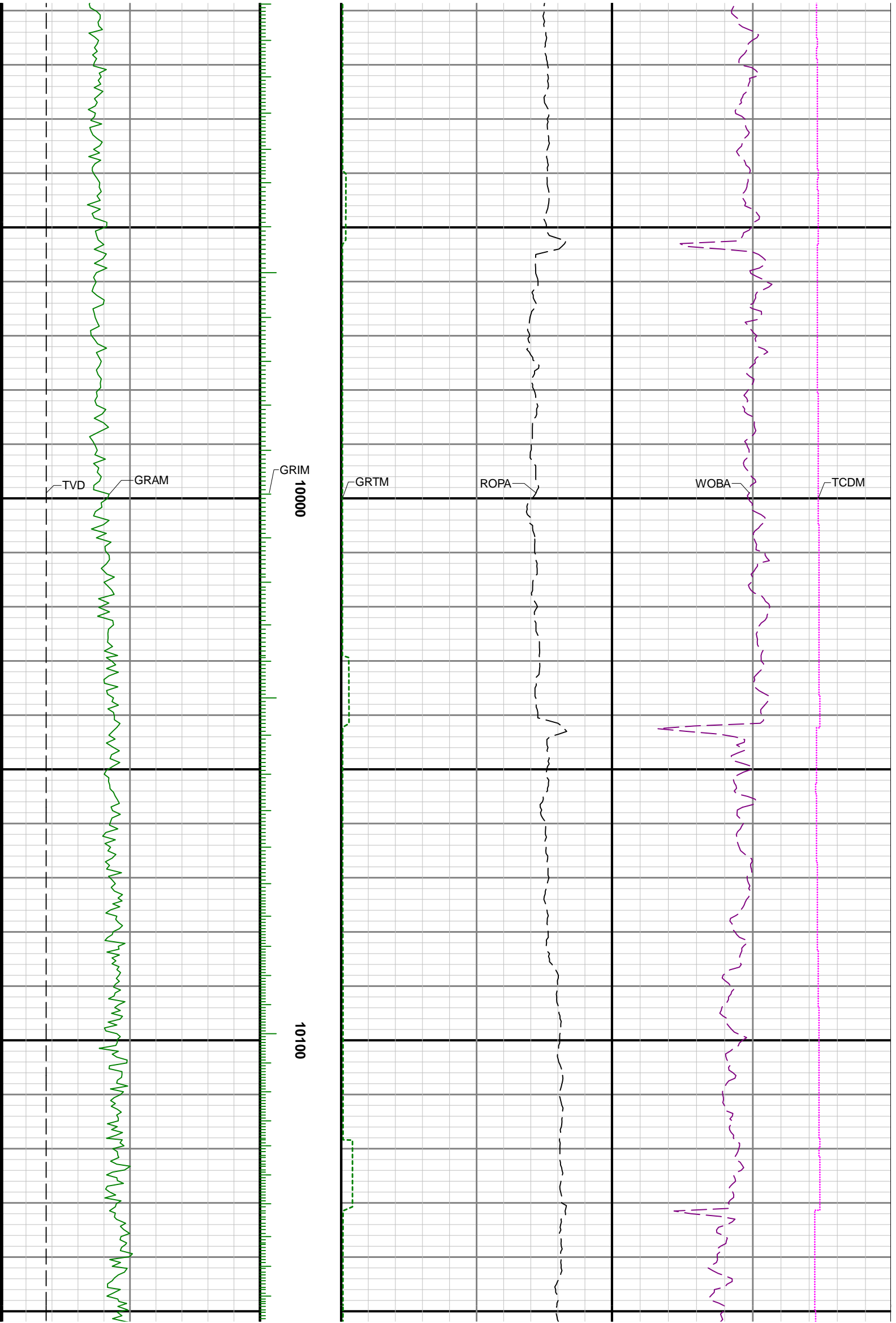


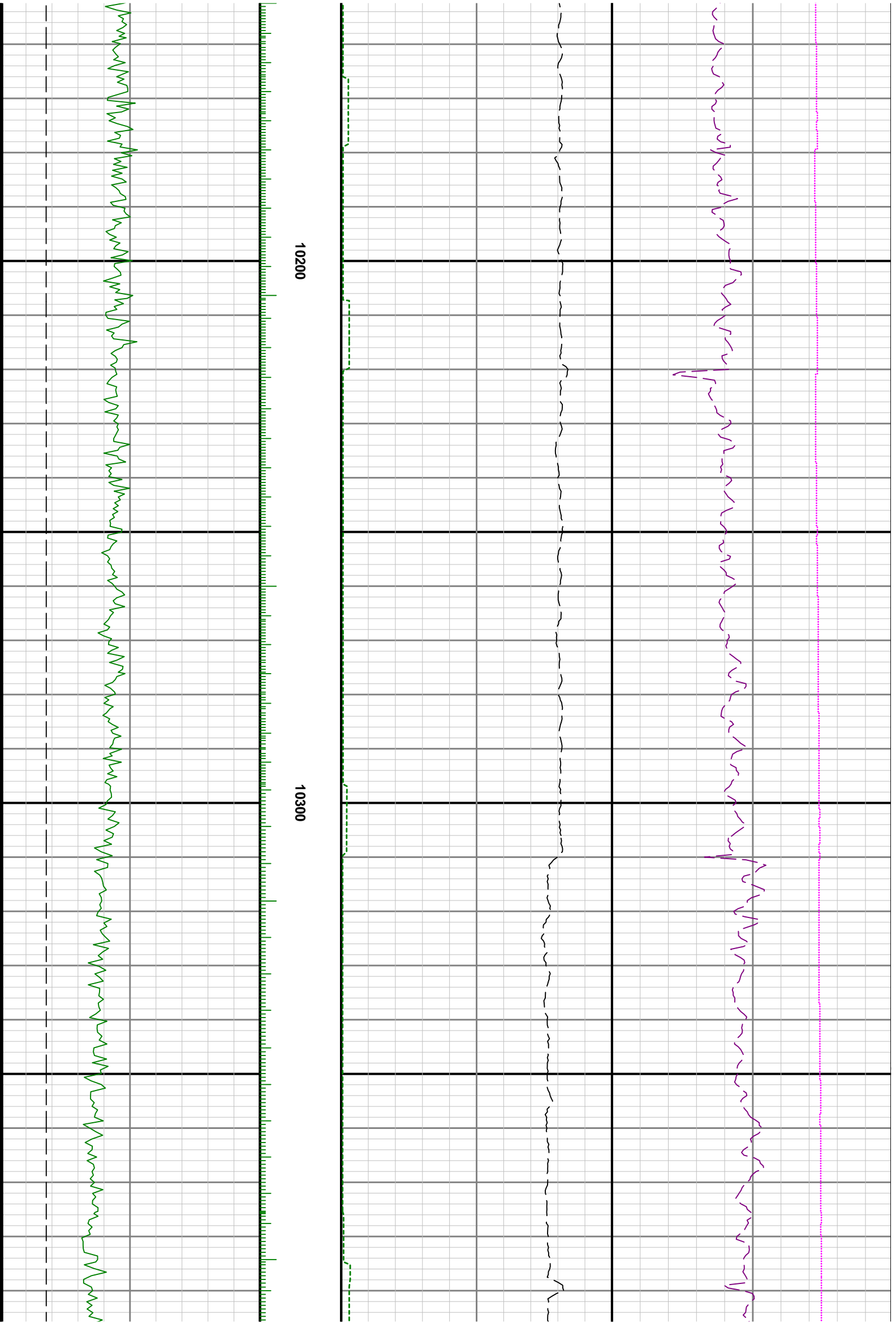


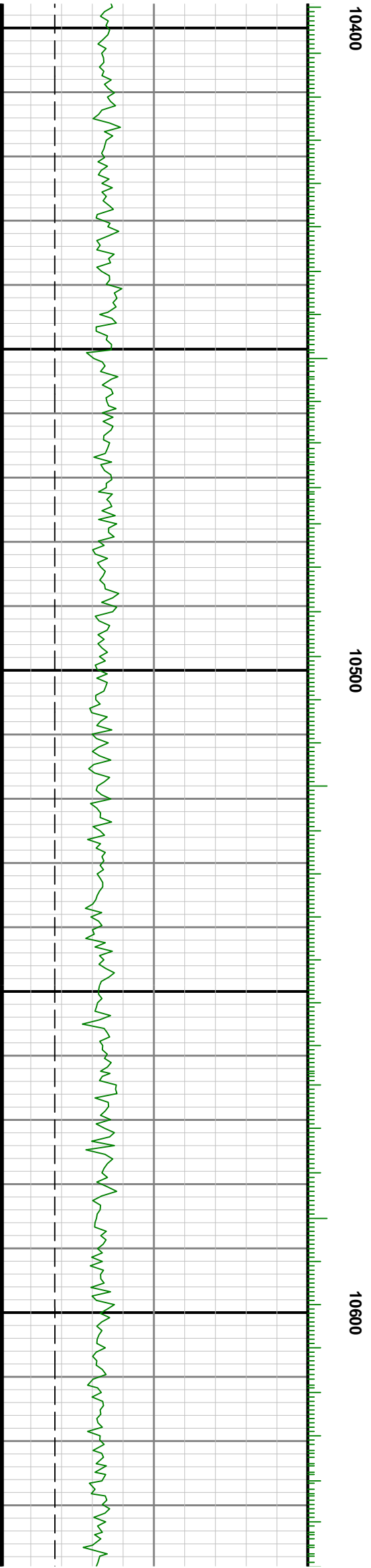
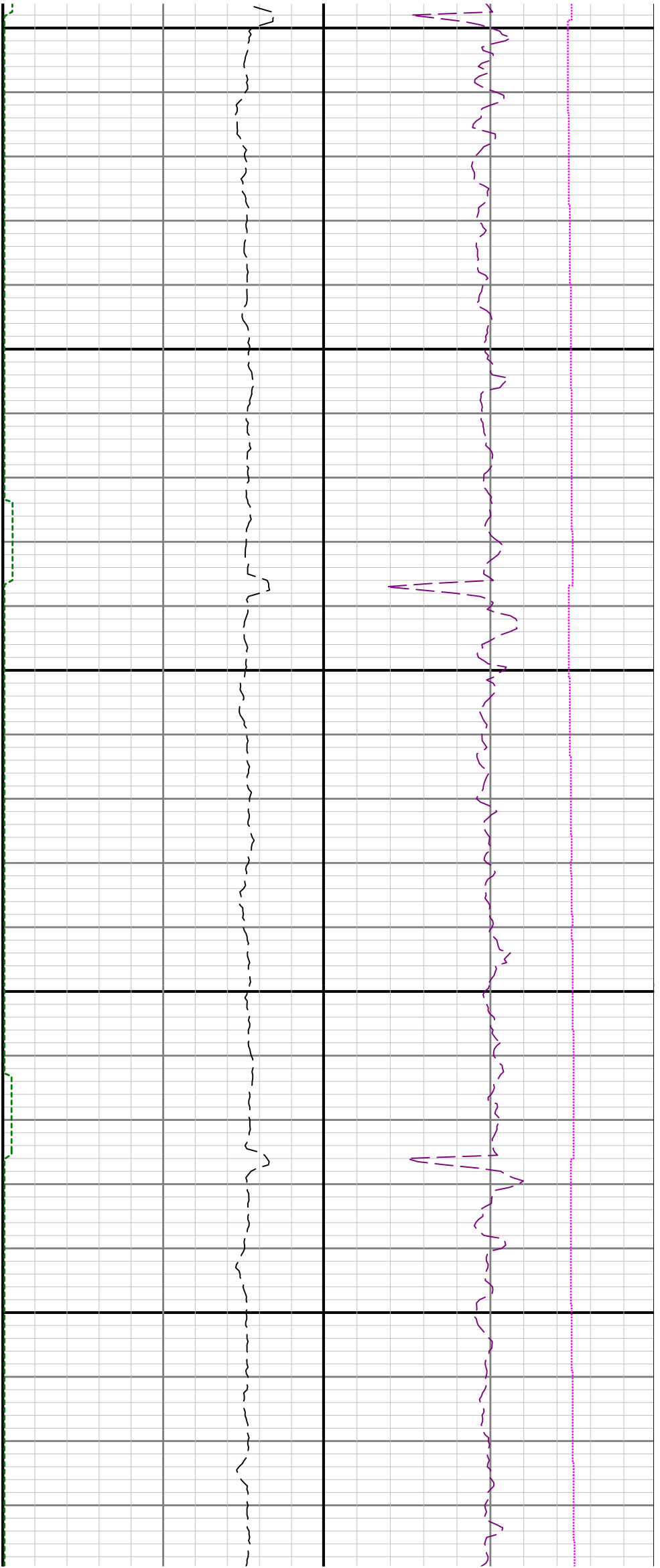


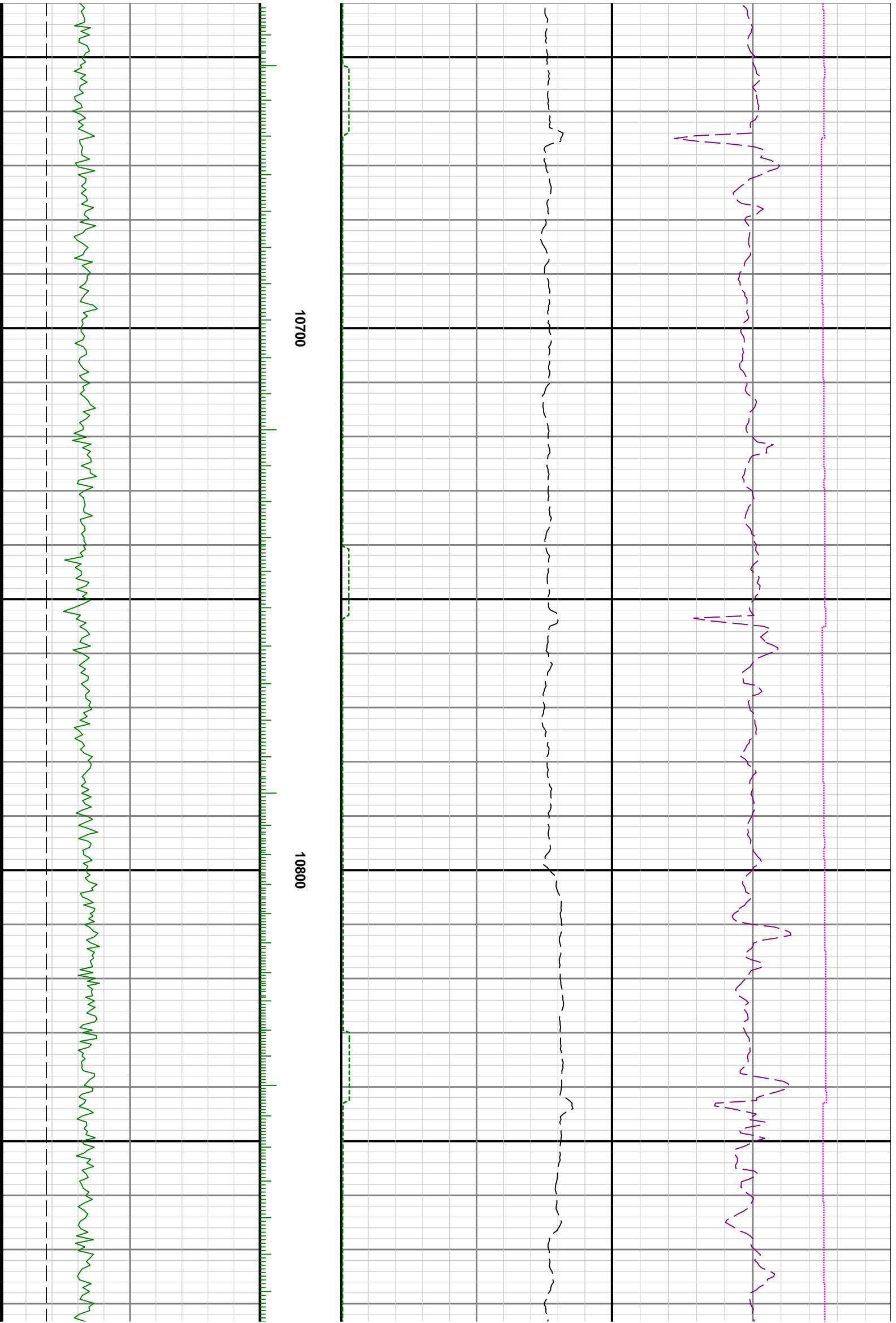




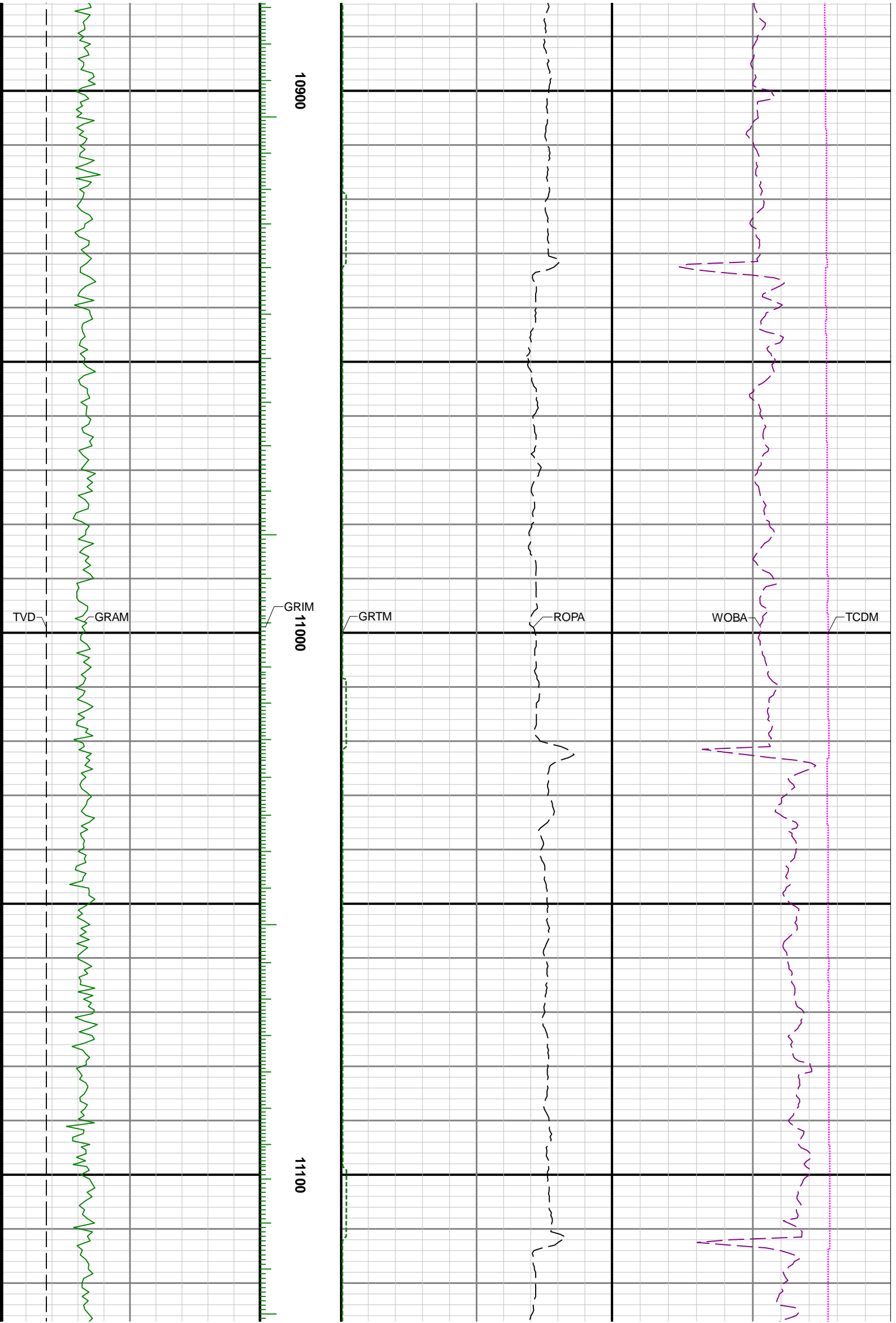


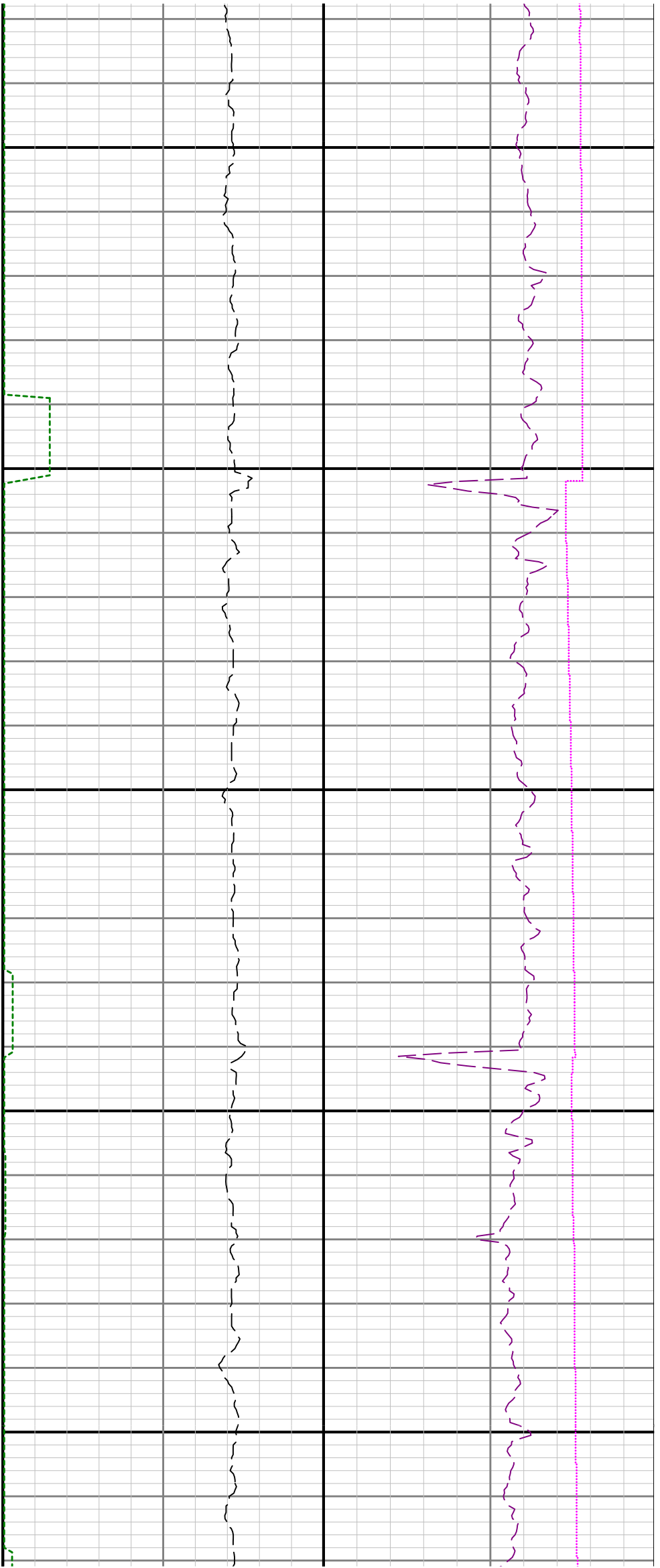






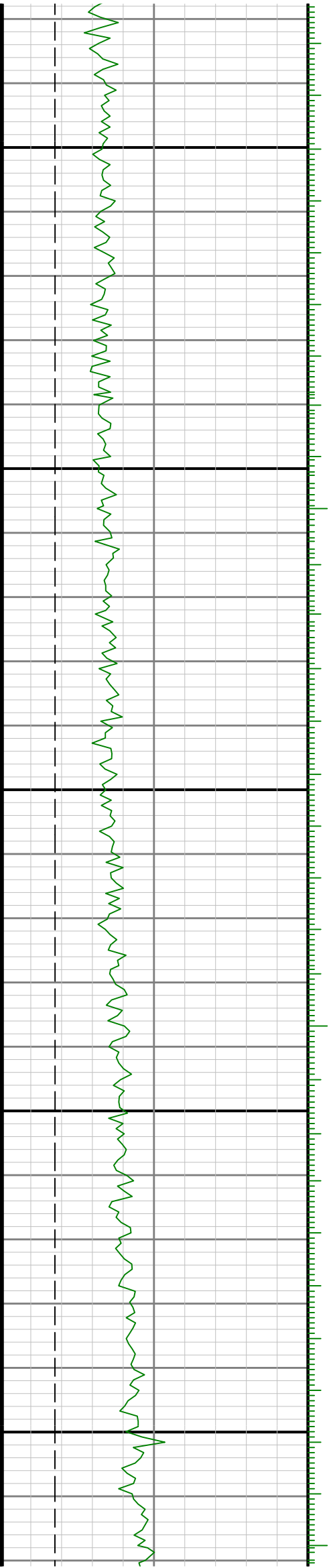


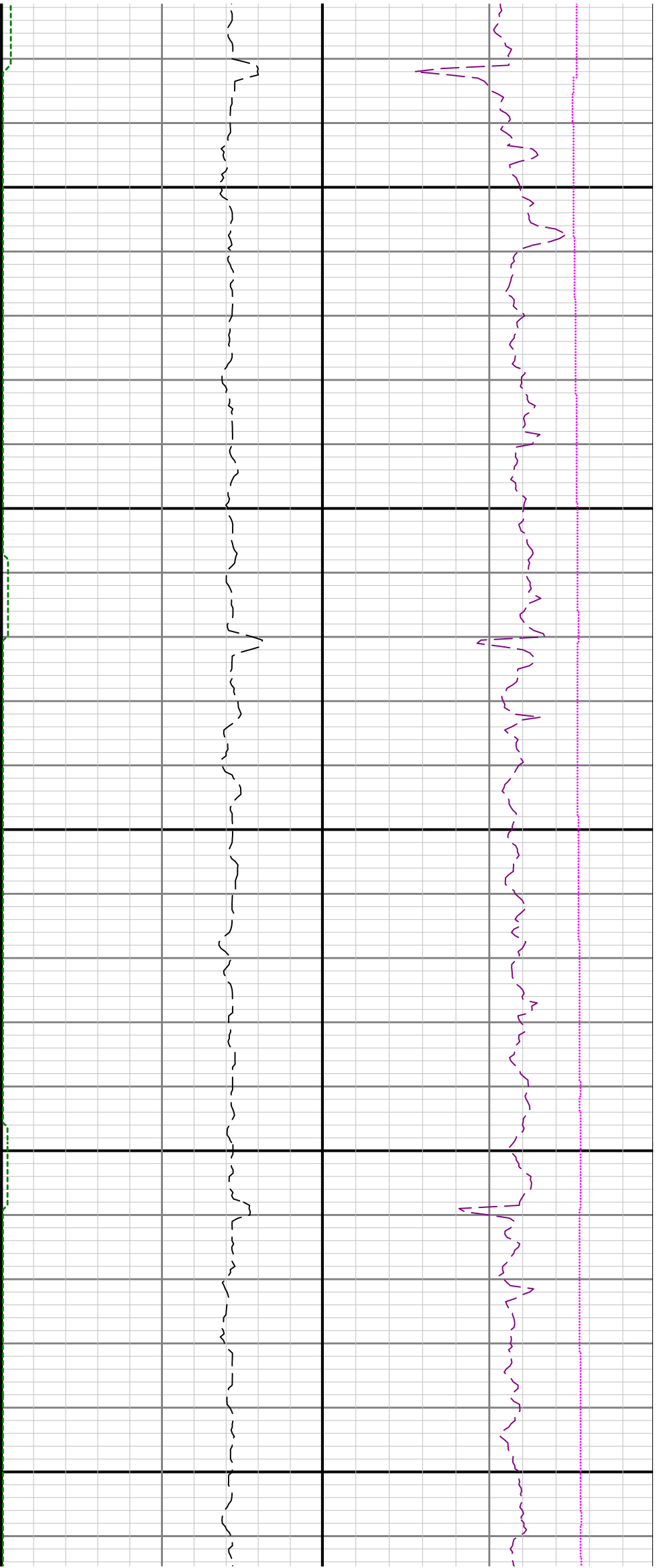




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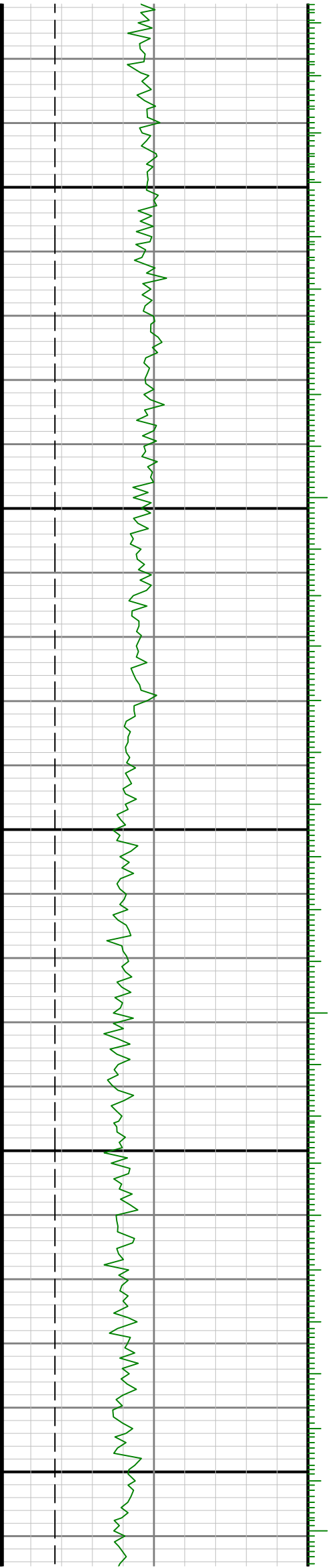


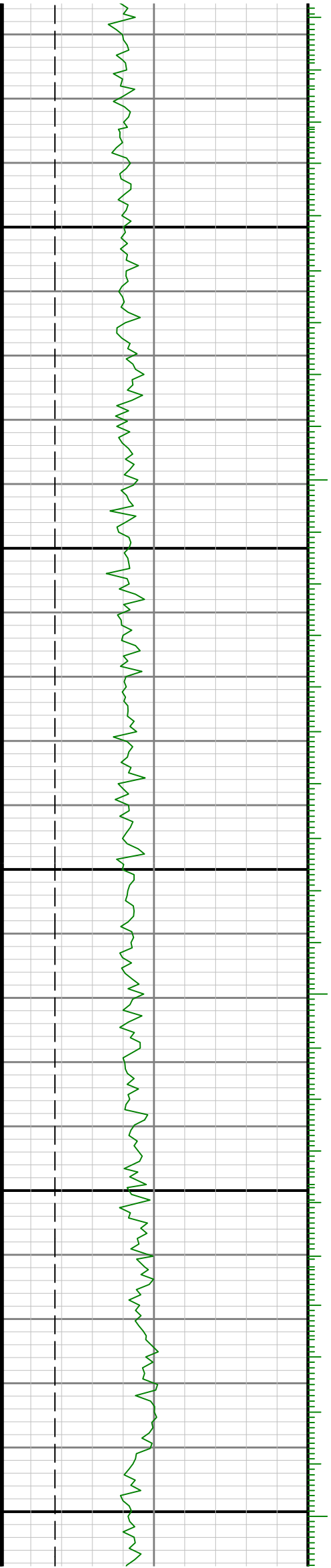
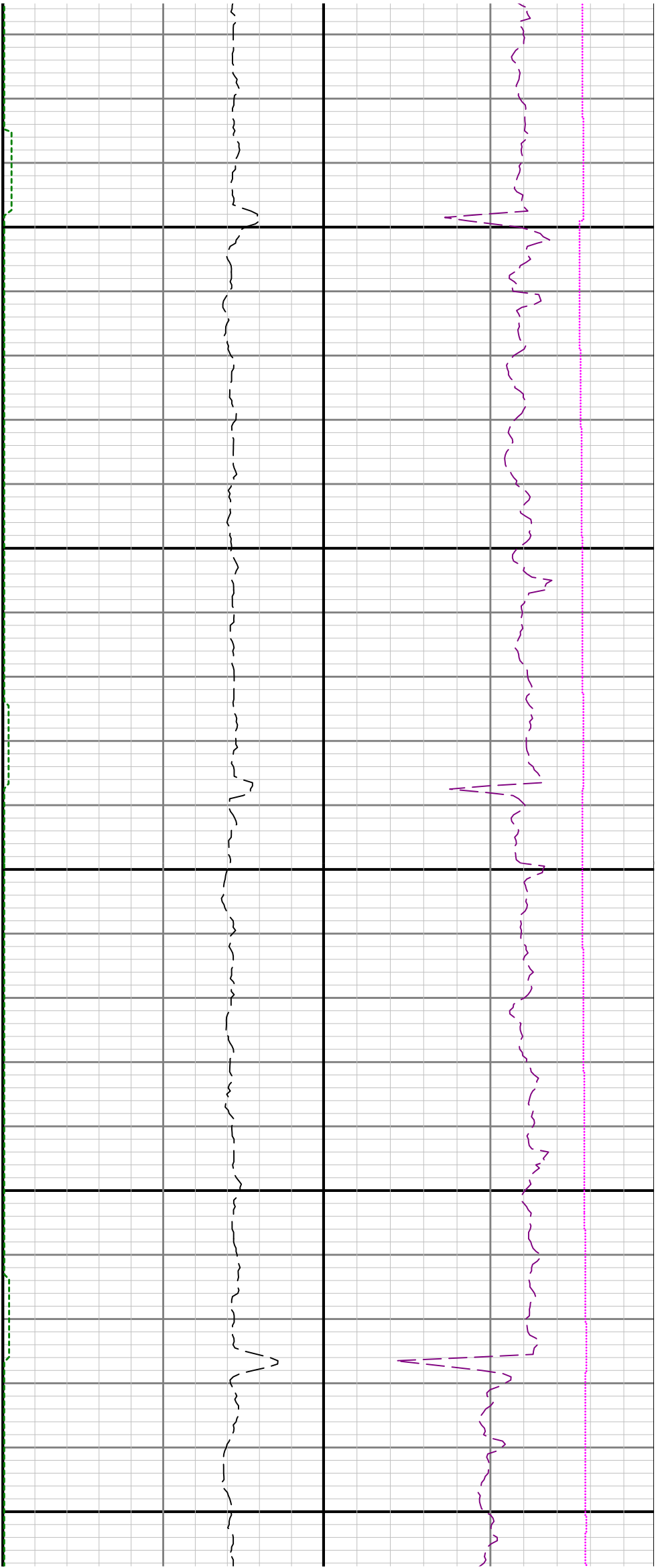


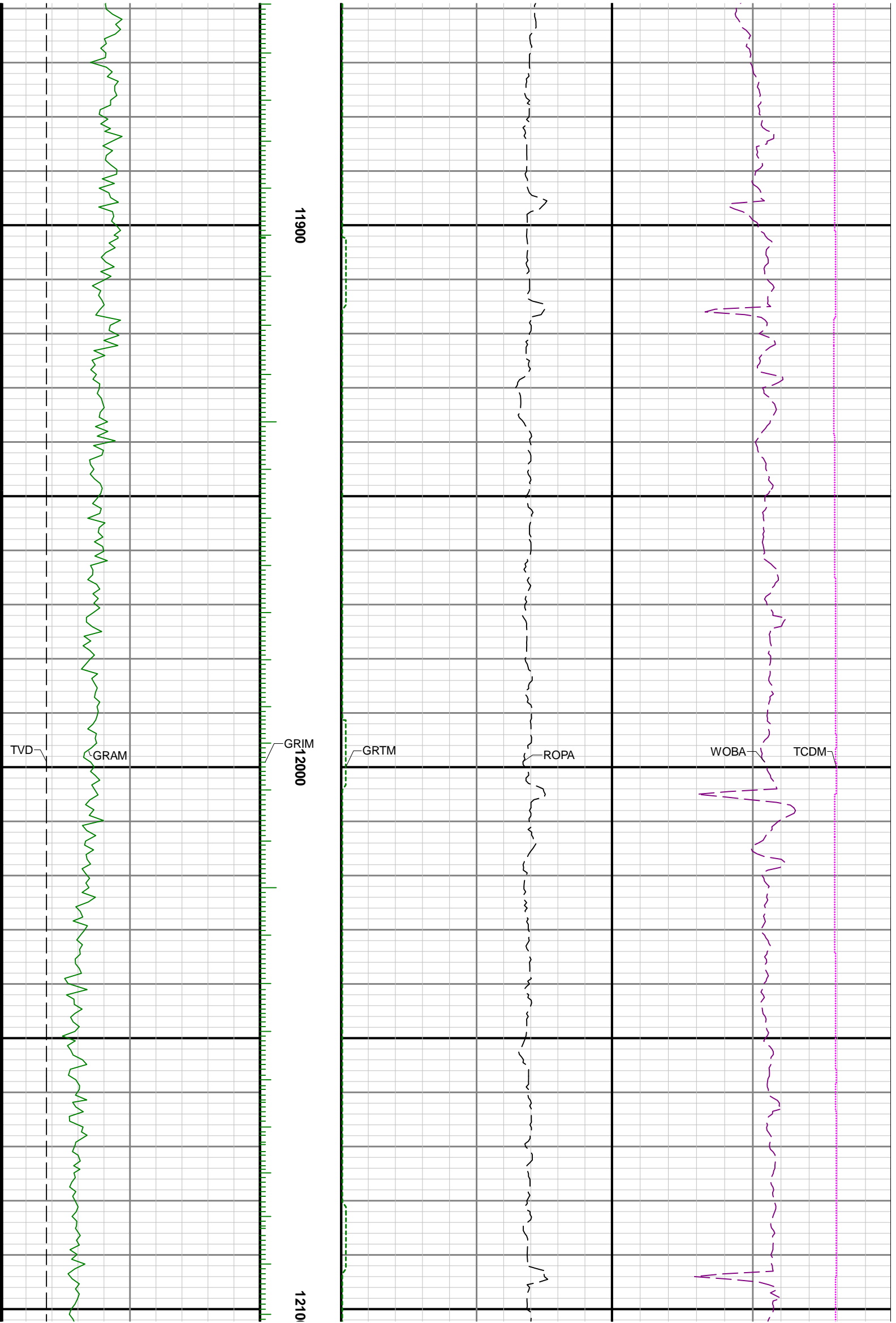
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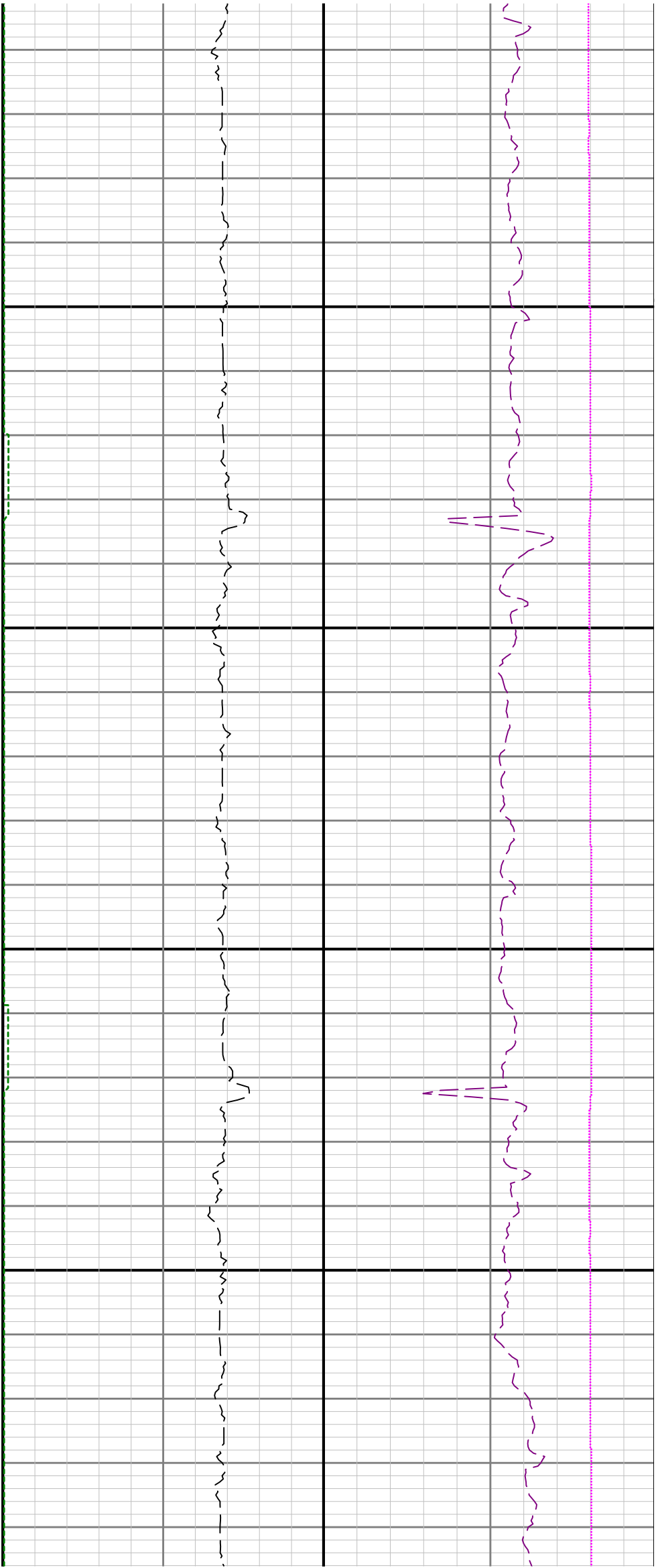
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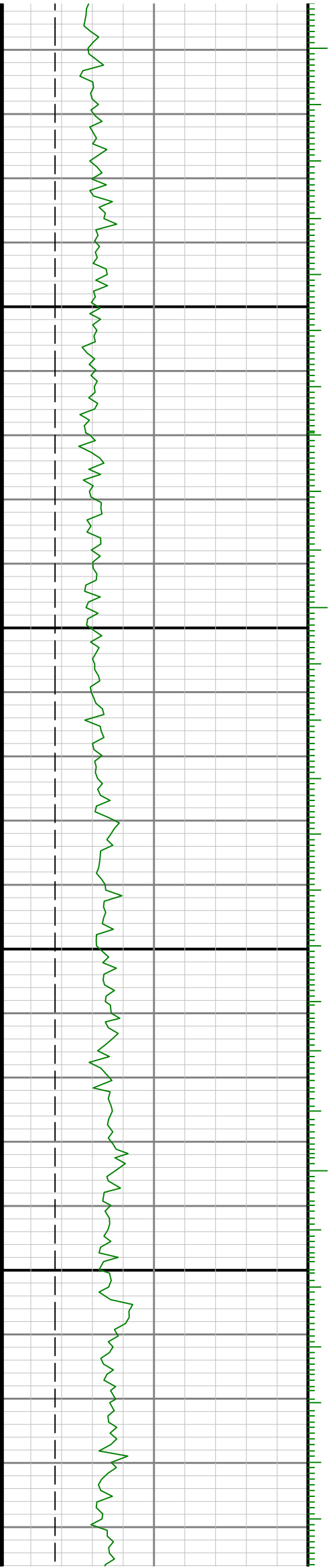


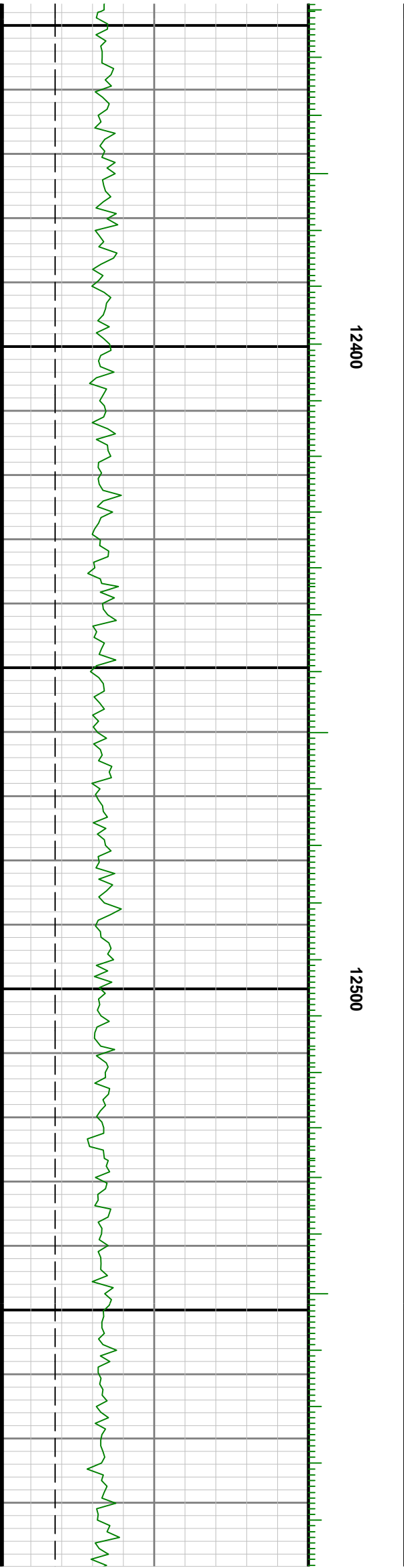
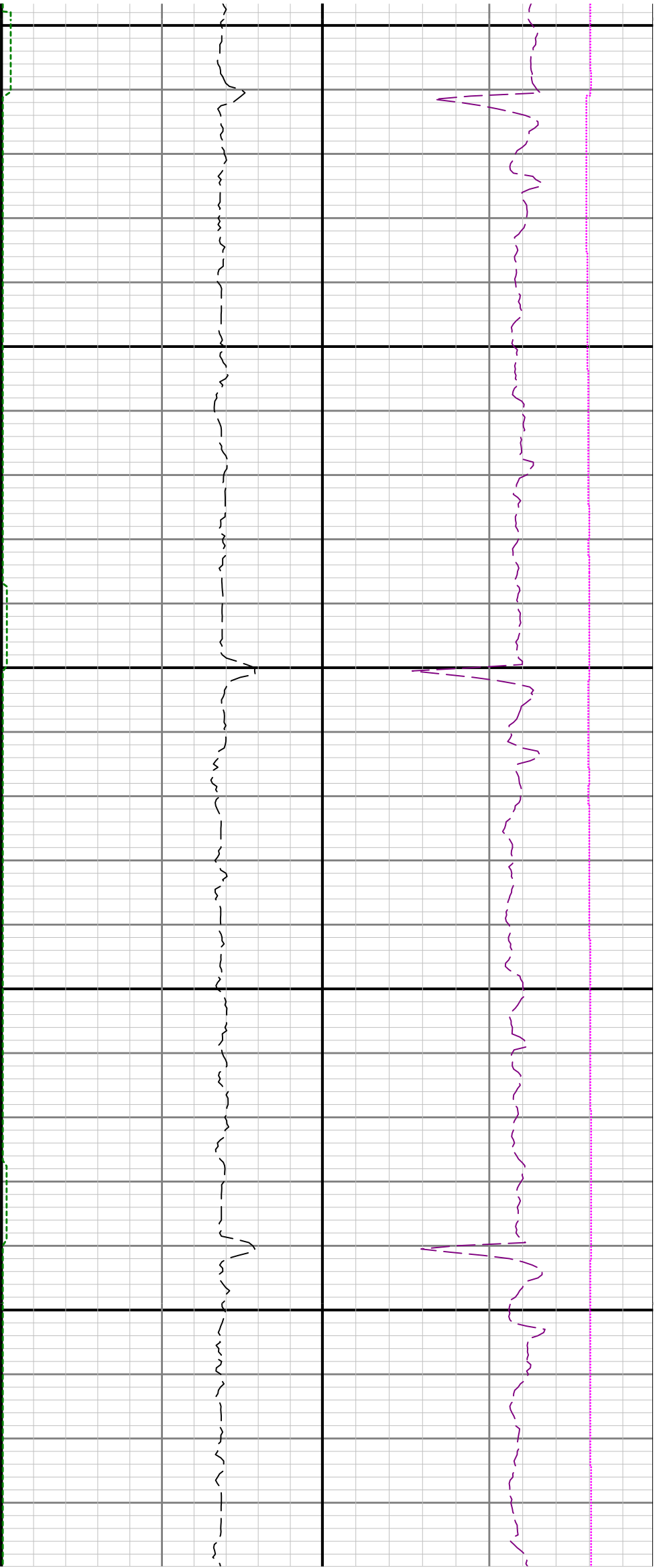


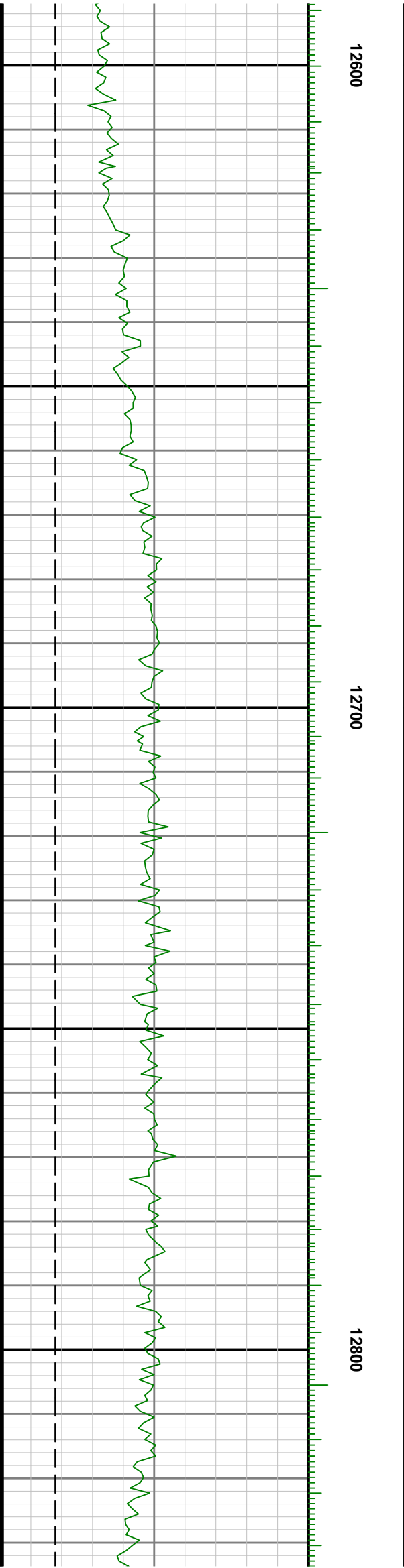
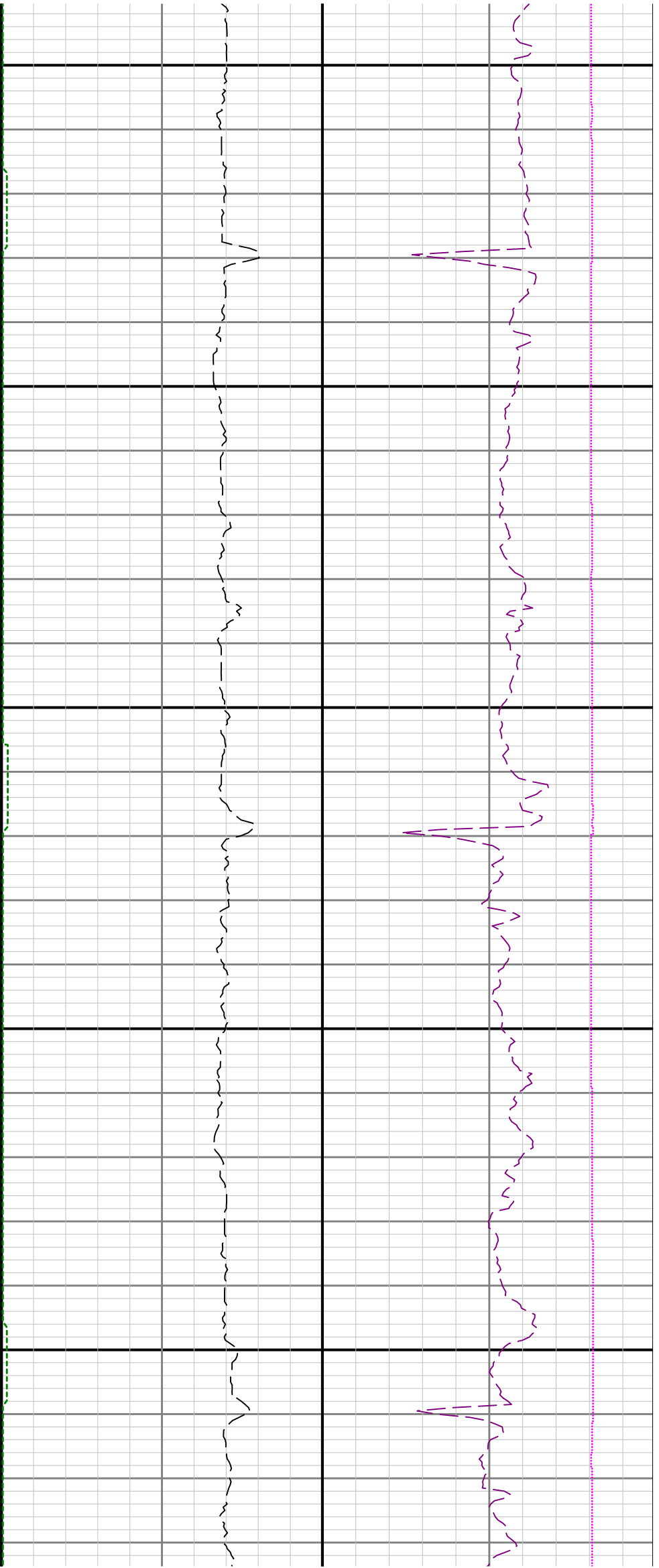


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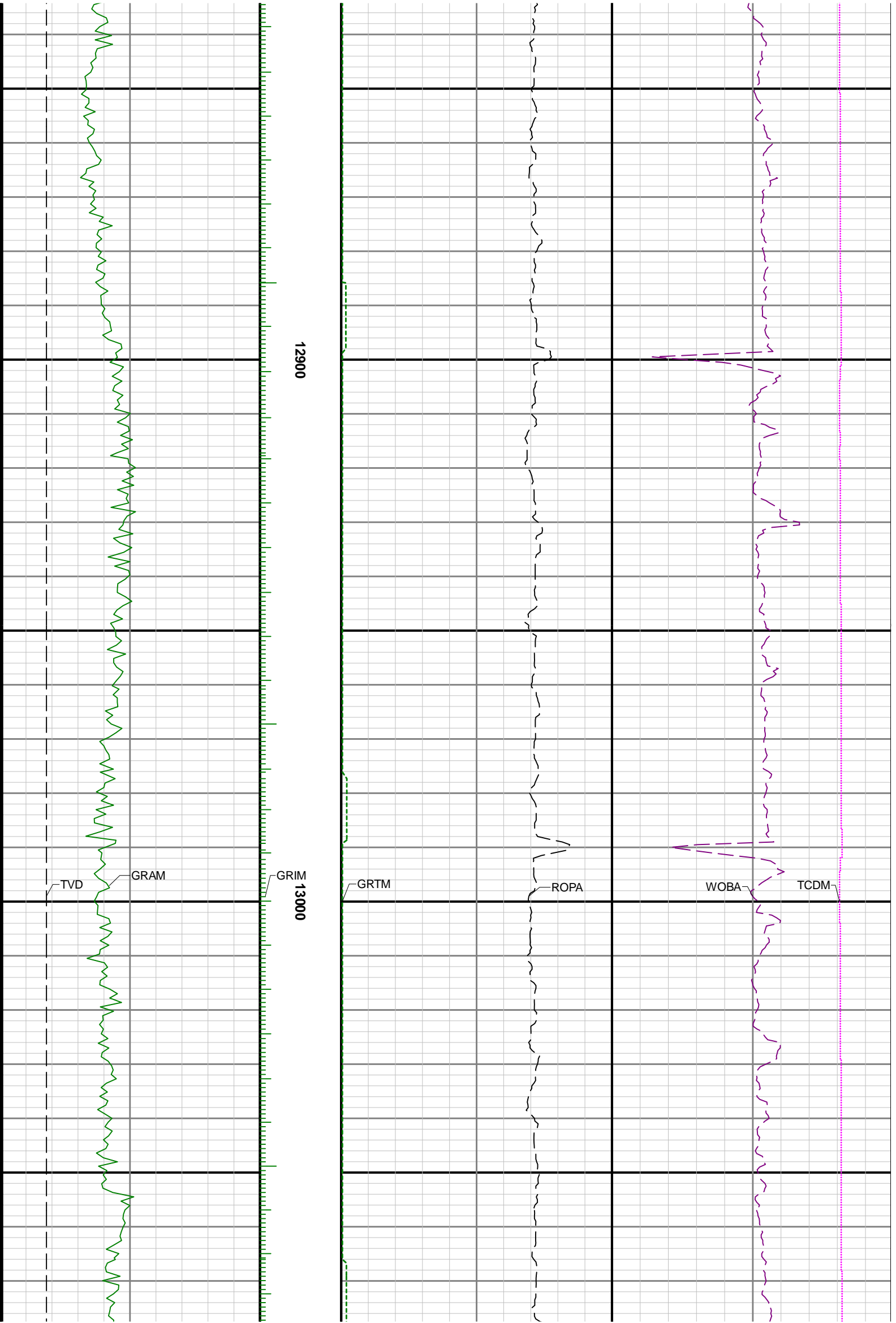
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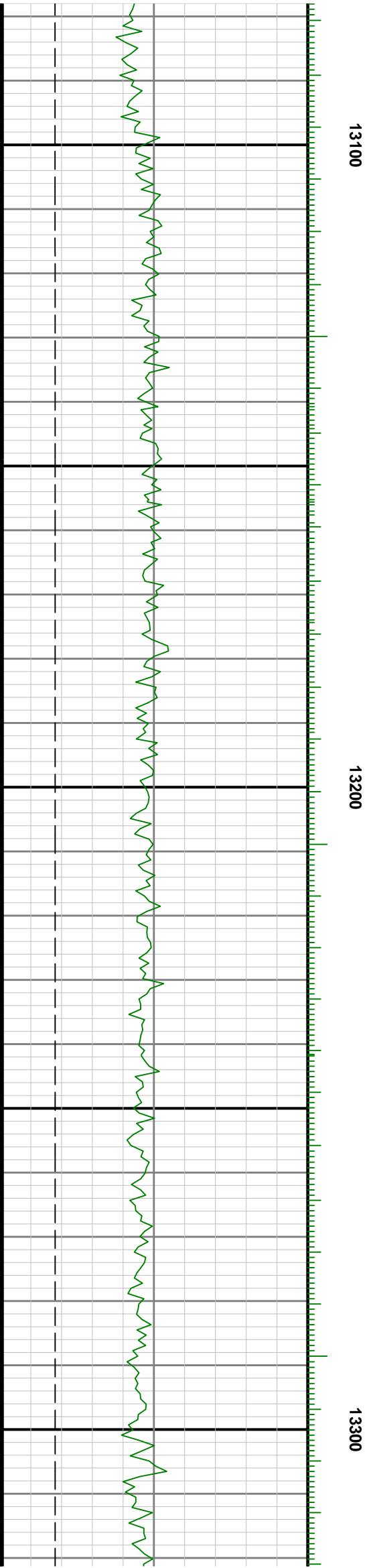
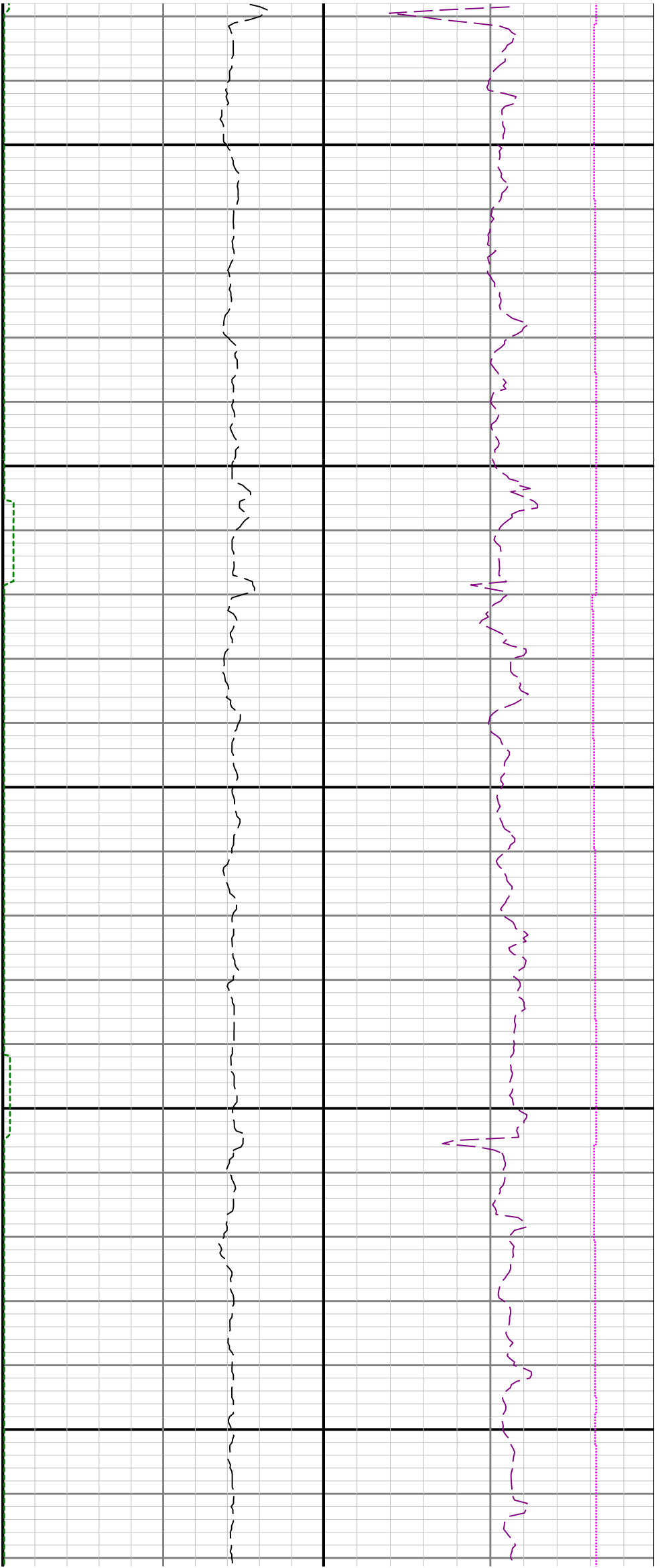




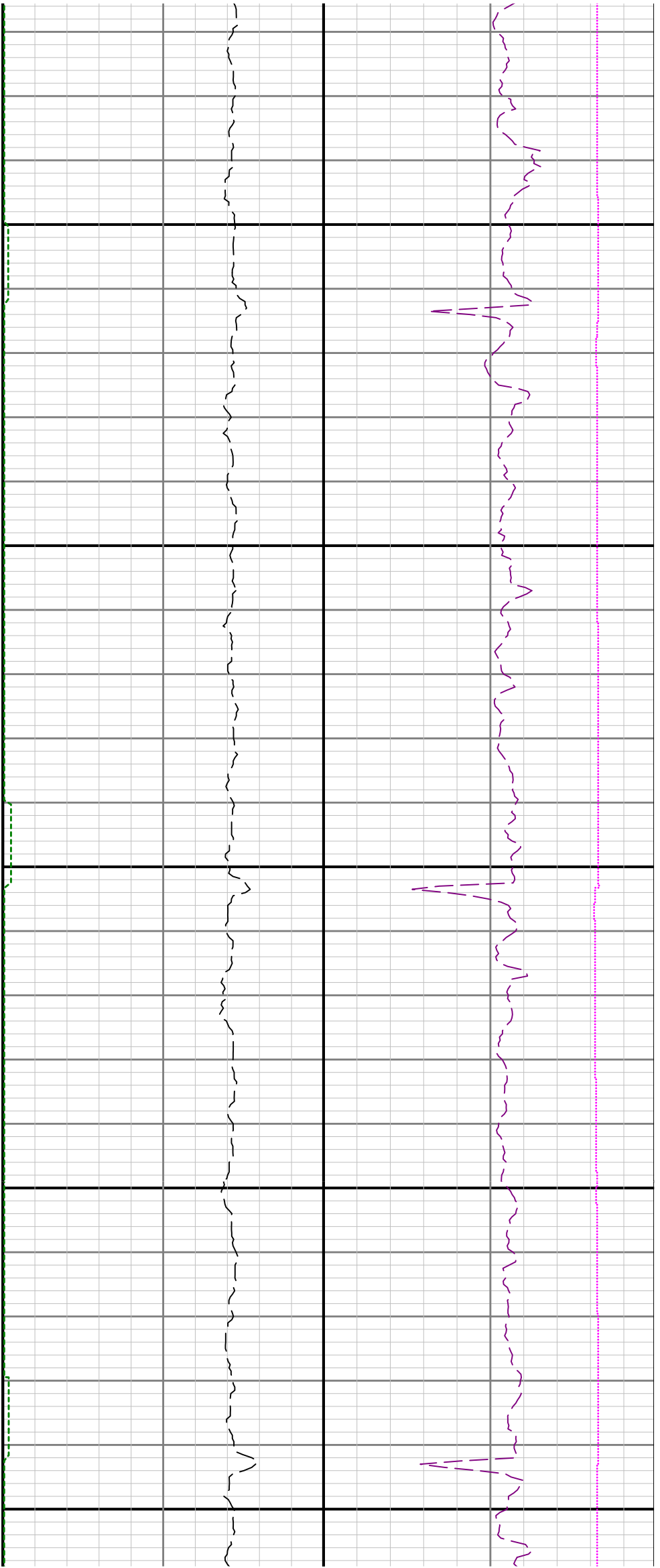








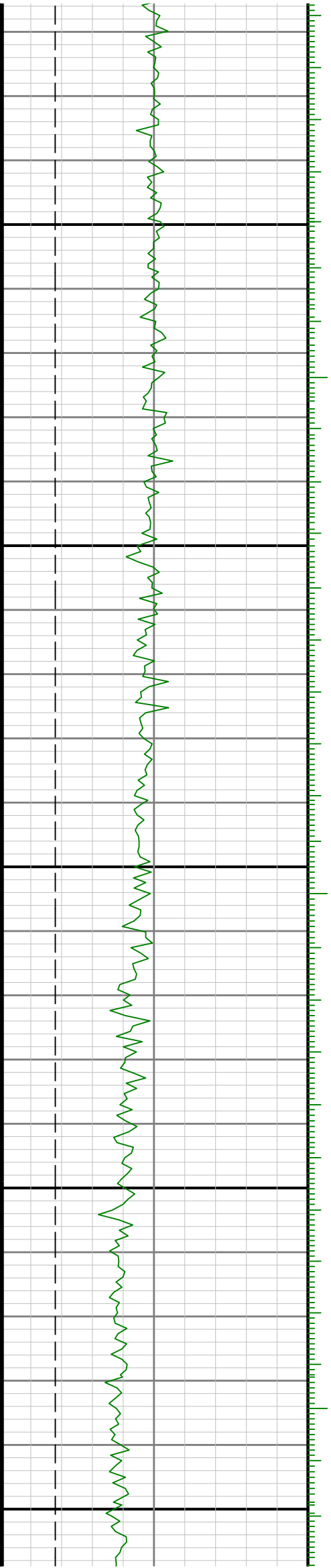


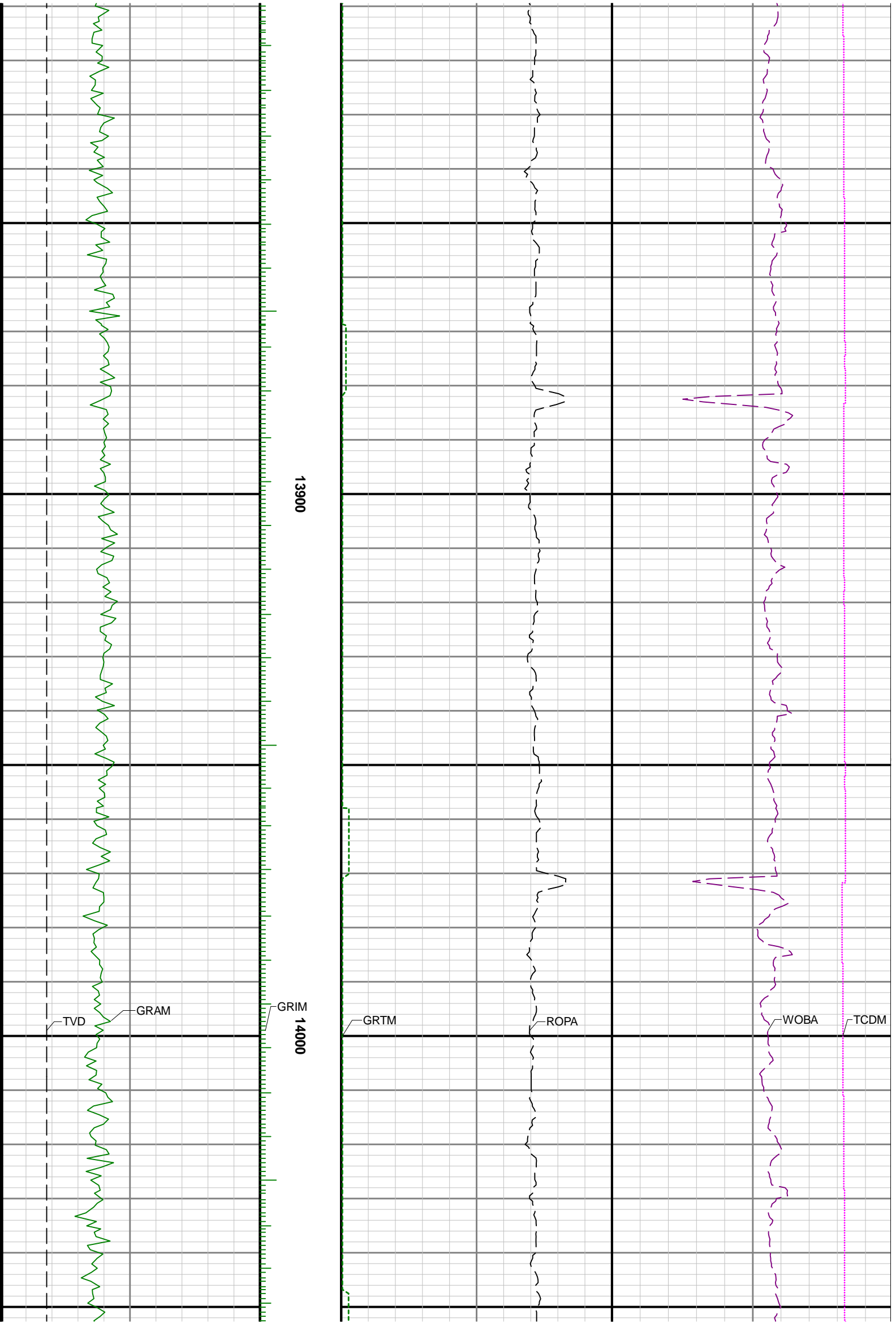


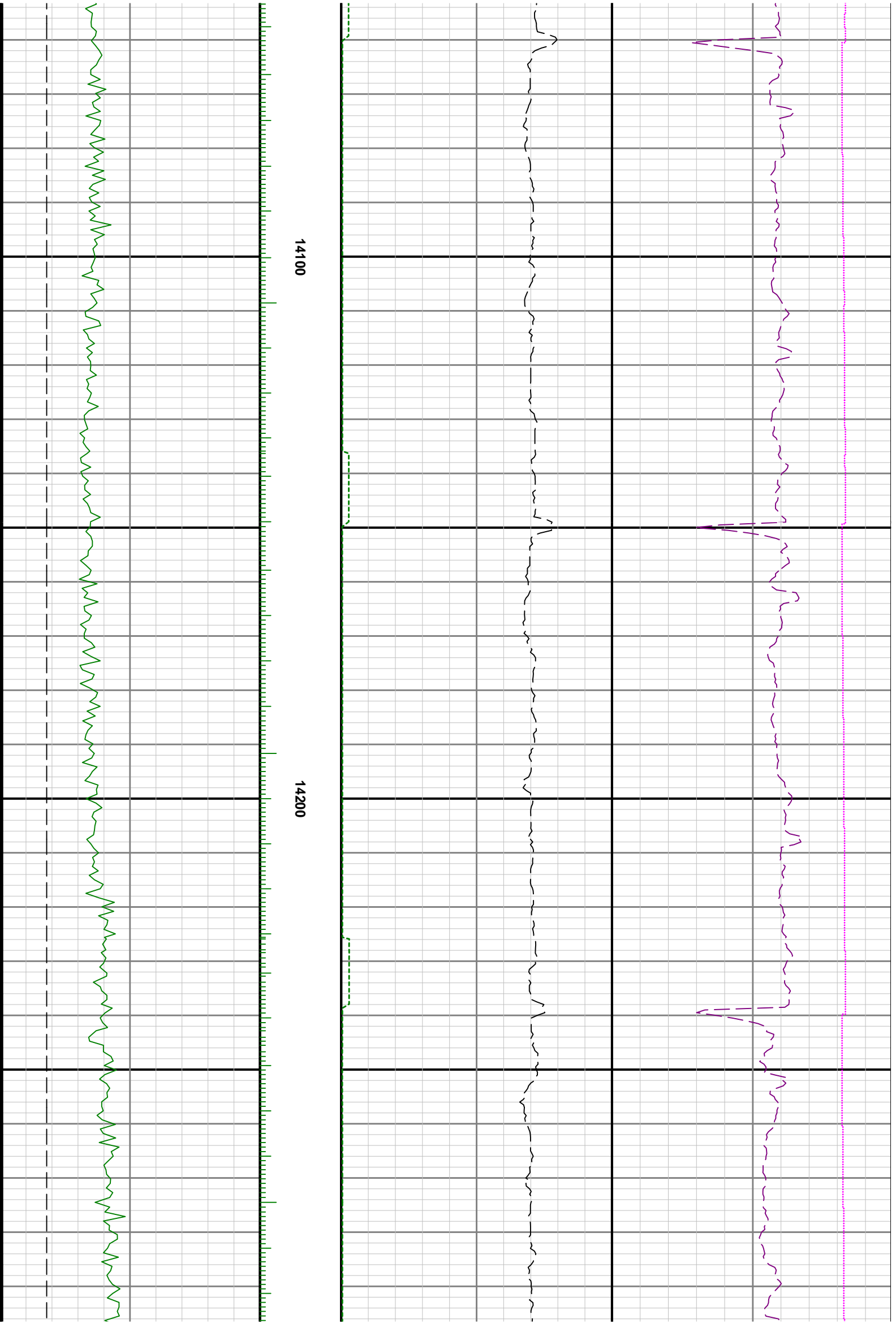
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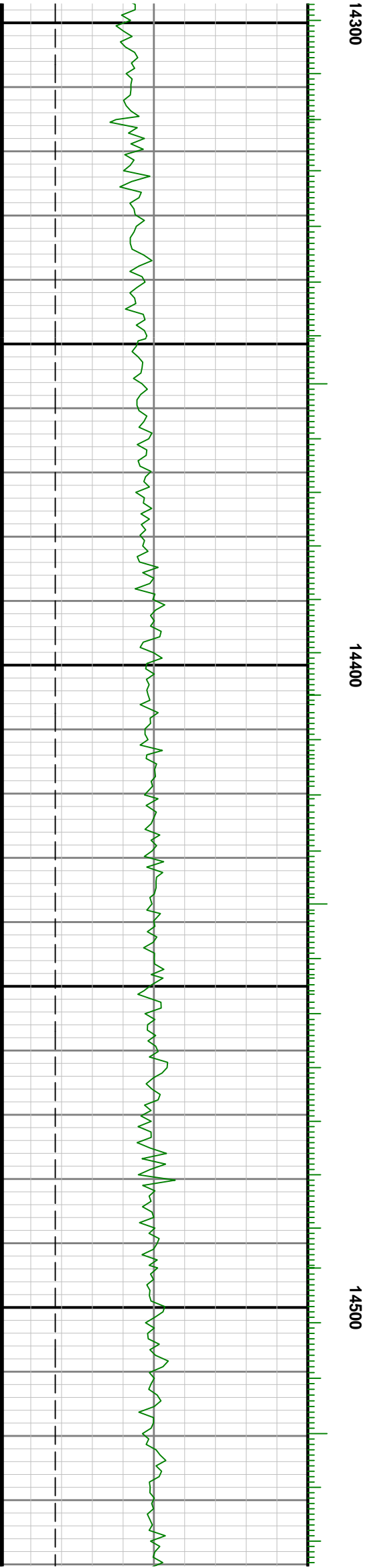
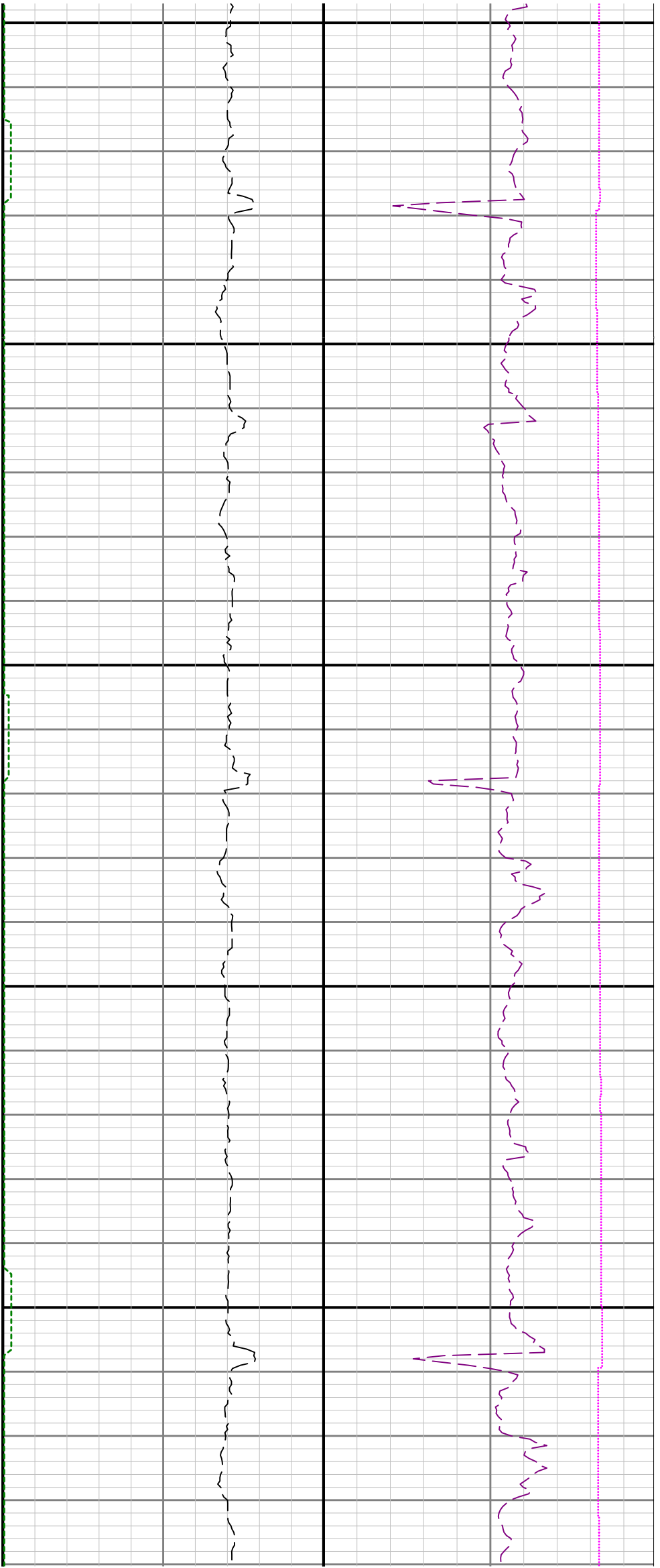
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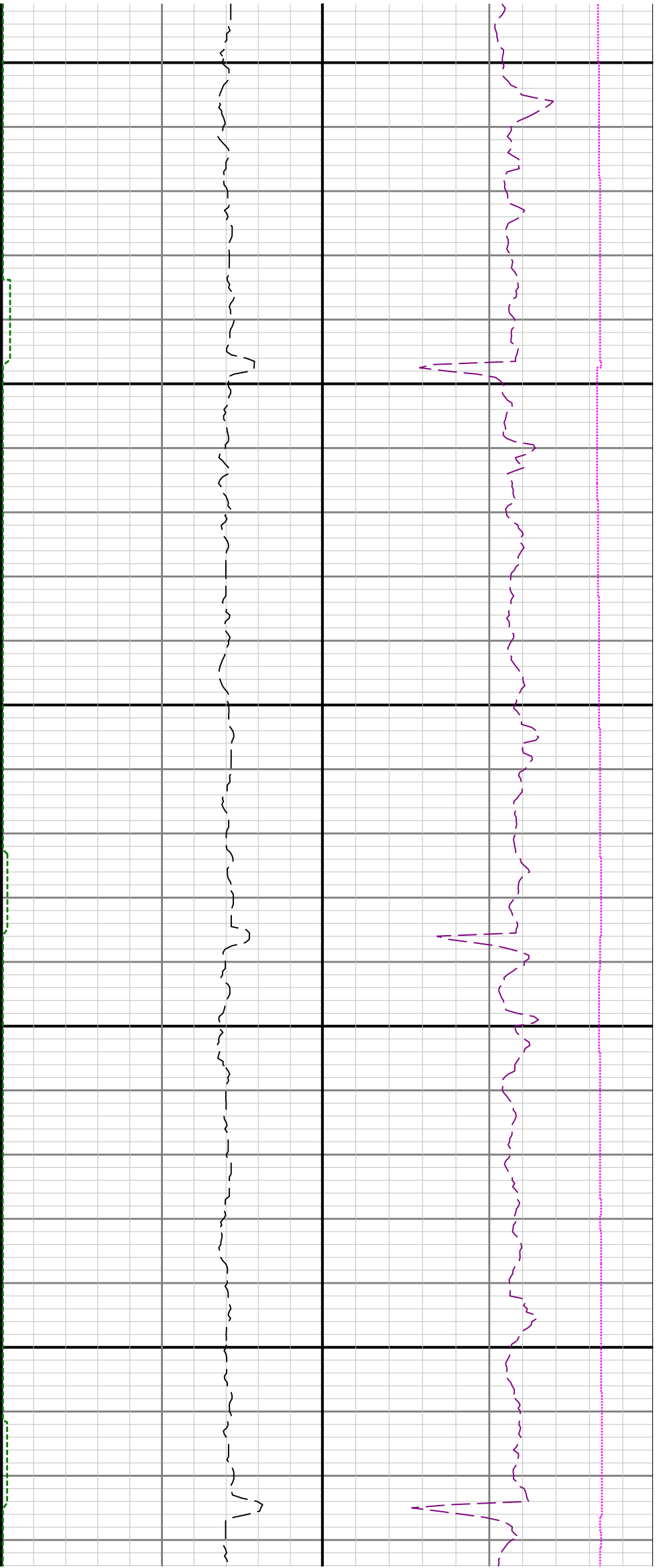
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14600

14700

