

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
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	14316020	Near Bit Inclination	5.93	6.73	7.000	4.330
2	AutoTrak Curve Steering Unit	14316020	Near Bit VSS	5.93	6.73	7.000	4.330
2	AutoTrak Curve MWD	14284442	Gamma (single)	2.73	12.90	7.000	3.250
2	AutoTrak Curve MWD	14284442	Directional (mag)	12.26	22.43	7.000	3.250
3	AutoTrak Curve Steering Unit	14381514	Near Bit VSS	5.93	6.73	7.000	4.330
3	AutoTrak Curve Steering Unit	14381514	Near Bit Inclination	5.93	6.73	7.000	4.330
3	AutoTrak Curve MWD	14256850	Gamma (single)	2.20	12.31	7.000	3.250
3	AutoTrak Curve MWD	14256850	Directional (mag)	12.27	22.38	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

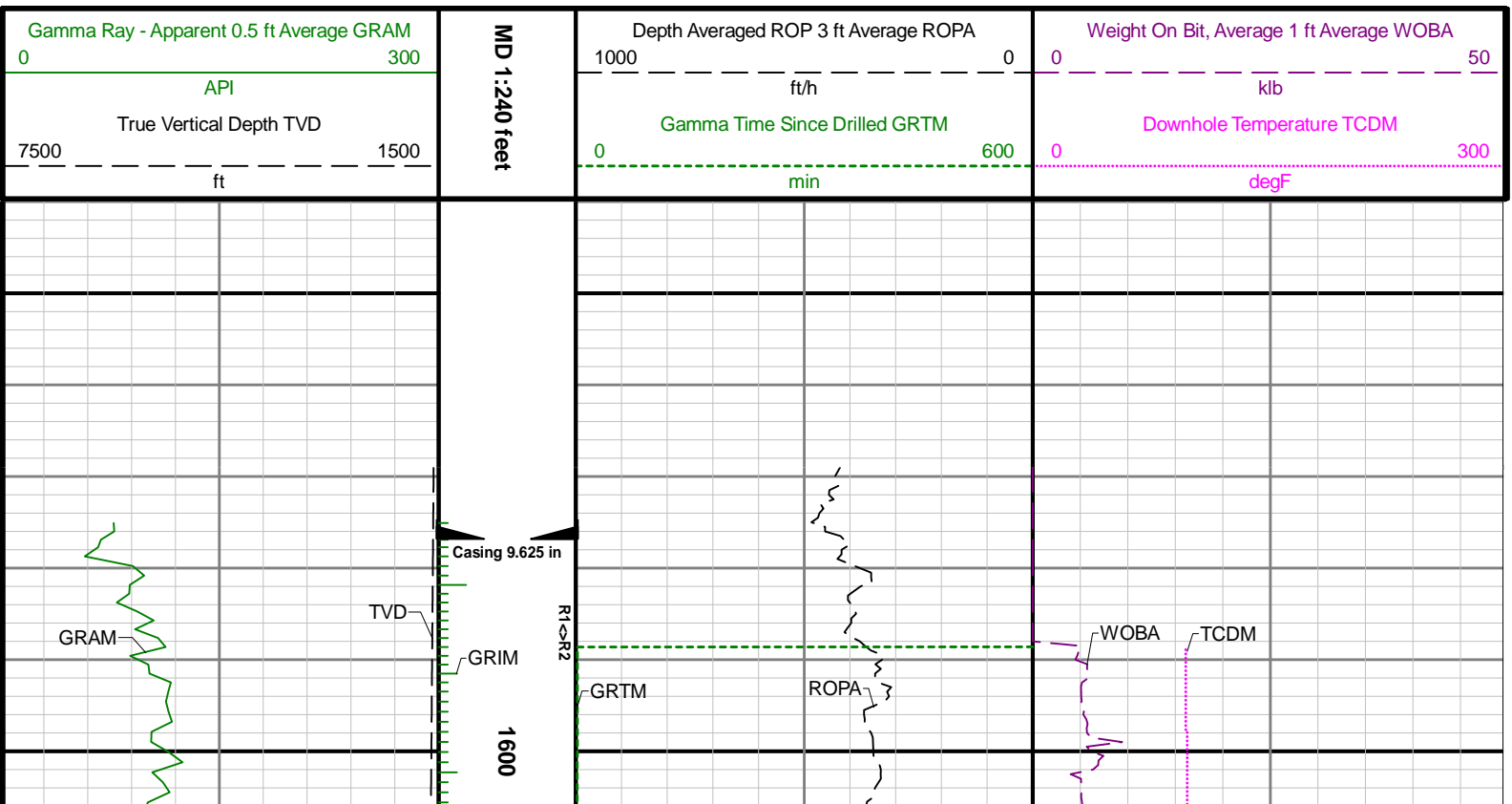
1	Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes, a GE company. Due to a lack of control by Baker Hughes, a GE company logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes, a GE company are being used to present 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 1587 feet MD (23 to 1587 feet TVD) therefore, no logging data was acquired for this run.
3	Baker Hughes, a GE company run 2 and 3 utilized 6 ¾ inch NaviGamma services (Gamma Ray and Directional) behind 8 ½ inch bit and rotary steerable assembly from 1587 to 16347 feet MD (1587 to 6288 feet TVD).
4	Gamma Ray Apparent (GRAM) is presented 0 to 300 API per customer request.

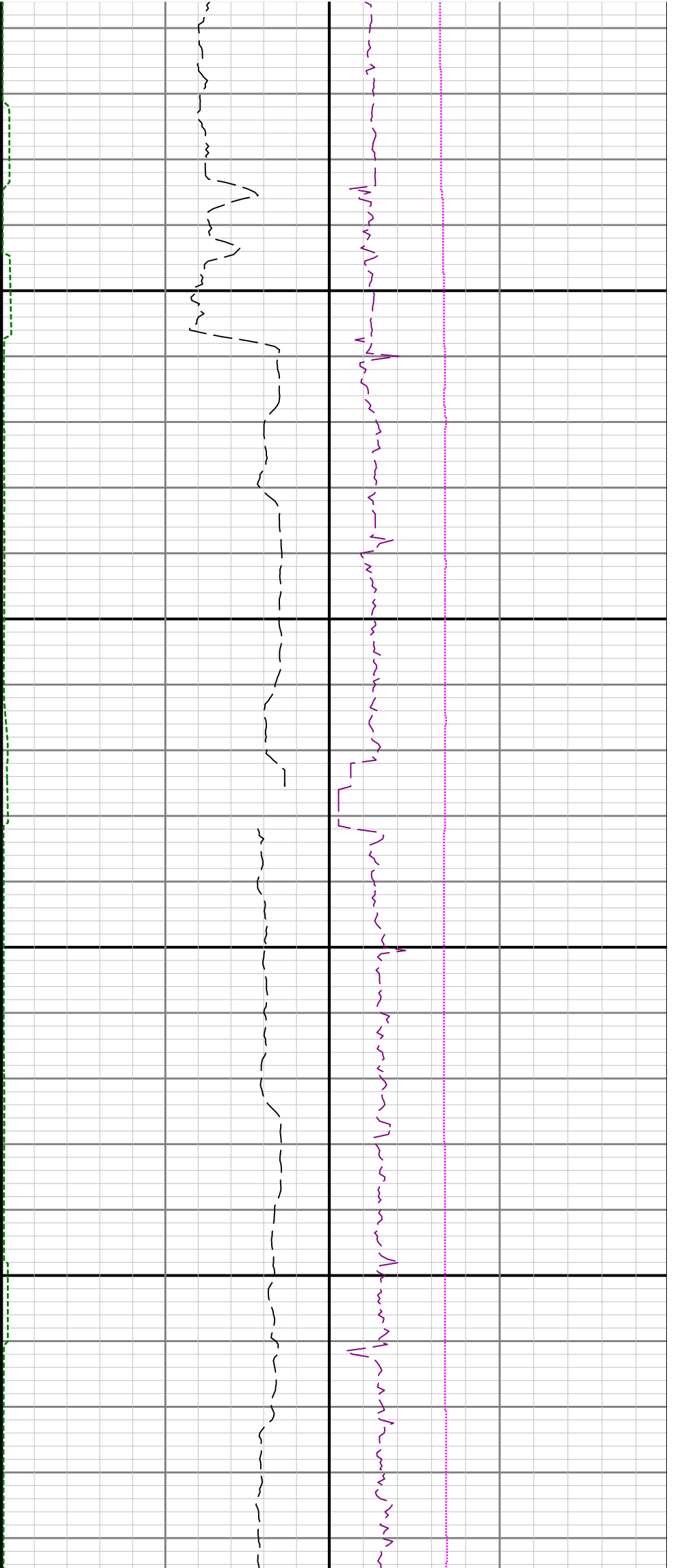
Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	1888.00	8.500	2	The interval from 1888 to 1911 feet MD (1888 to 1910 feet TVD) data was not logged due to Pason issue.
2	3497.00	8.500	3	The interval from 3497 to 3510 feet MD (3478 to 3492 feet TVD) was logged due to changing out ATC.
3	12462.00	8.500	3	The interval from 12462 to 21480 feet MD (6300 feet TVD) data was not logged due to depth tracking issue.
4	16334.00	8.500	3	The interval from 16334 to 16347 feet MD (6288 feet TVD) was not logged due to sensor to bit offset at well TD.

Curve Mnemonics

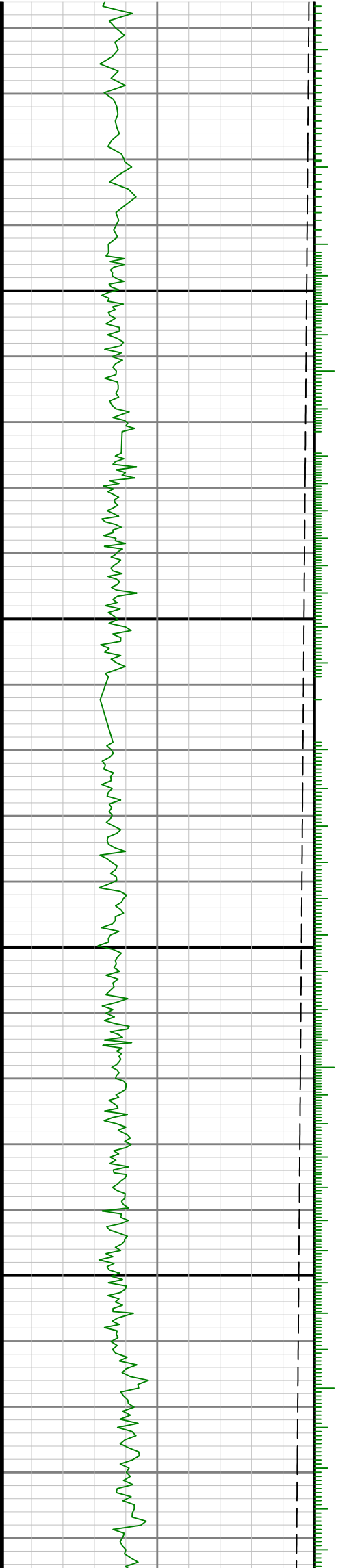
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
GRIM	Gamma Ray - Data Point Indicator - Memory	unitless
GRTM	Gamma Ray - Time Since Drilled - Memory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

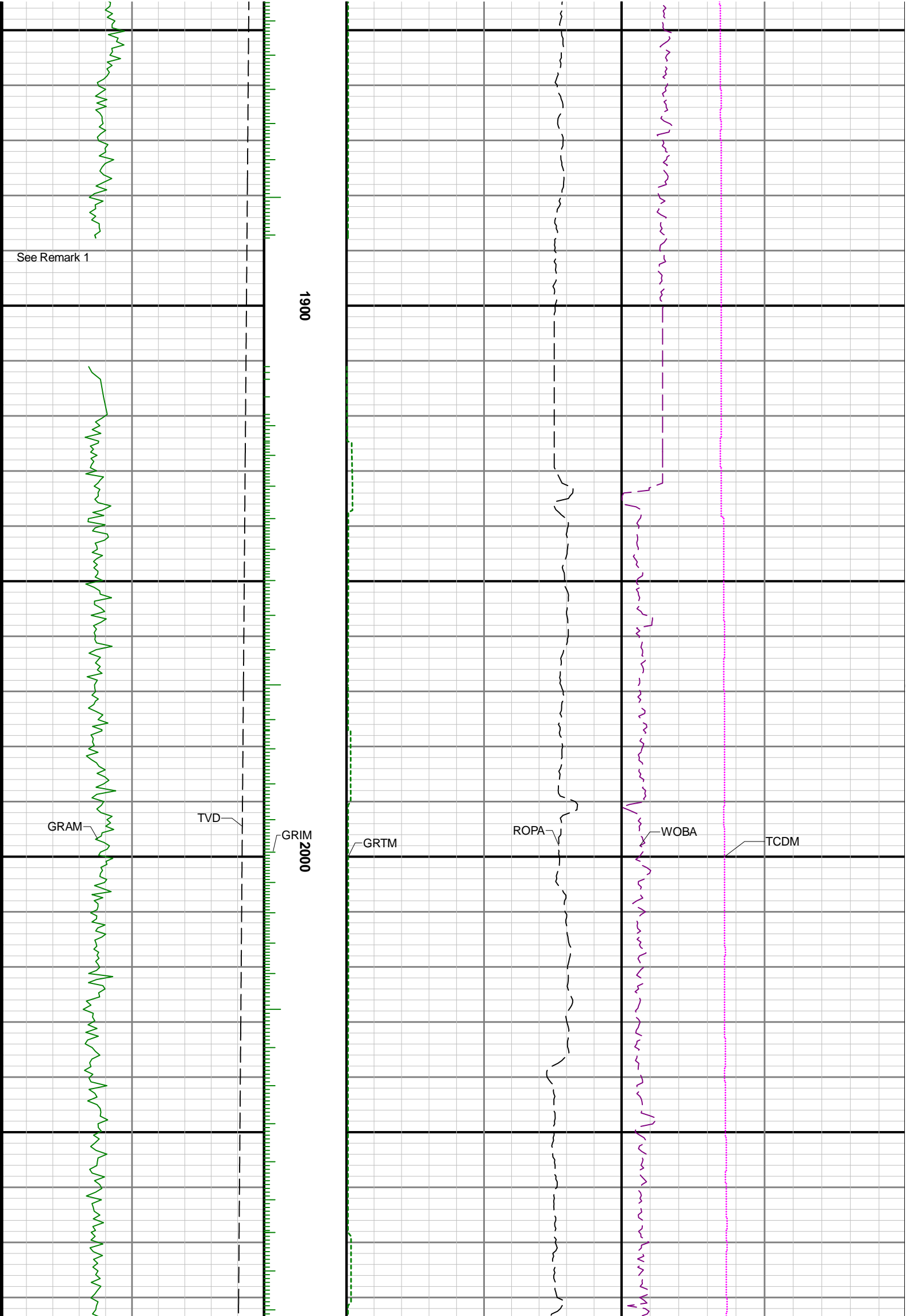




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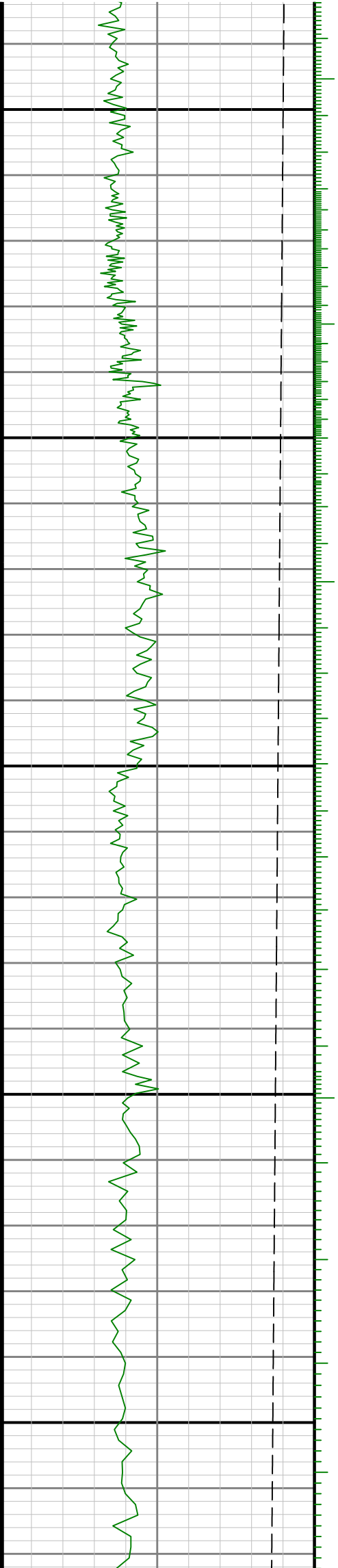




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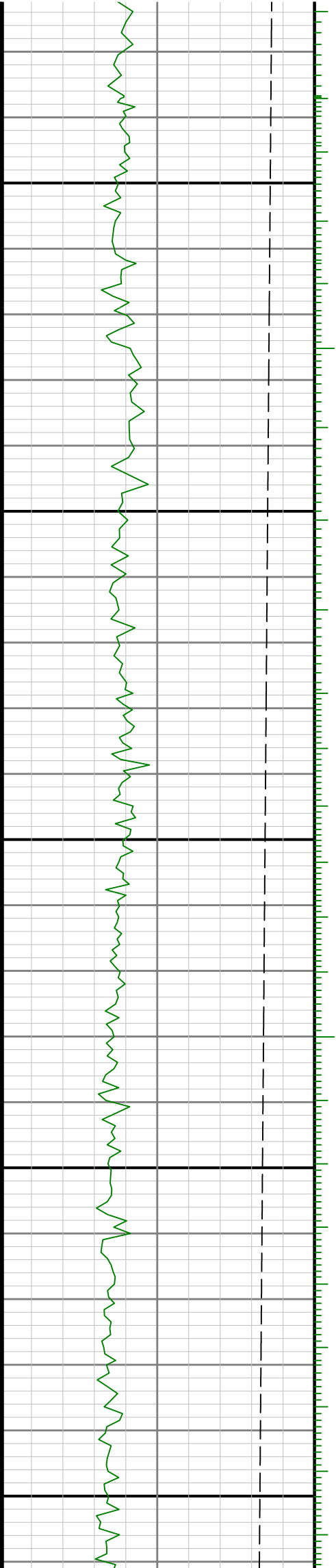
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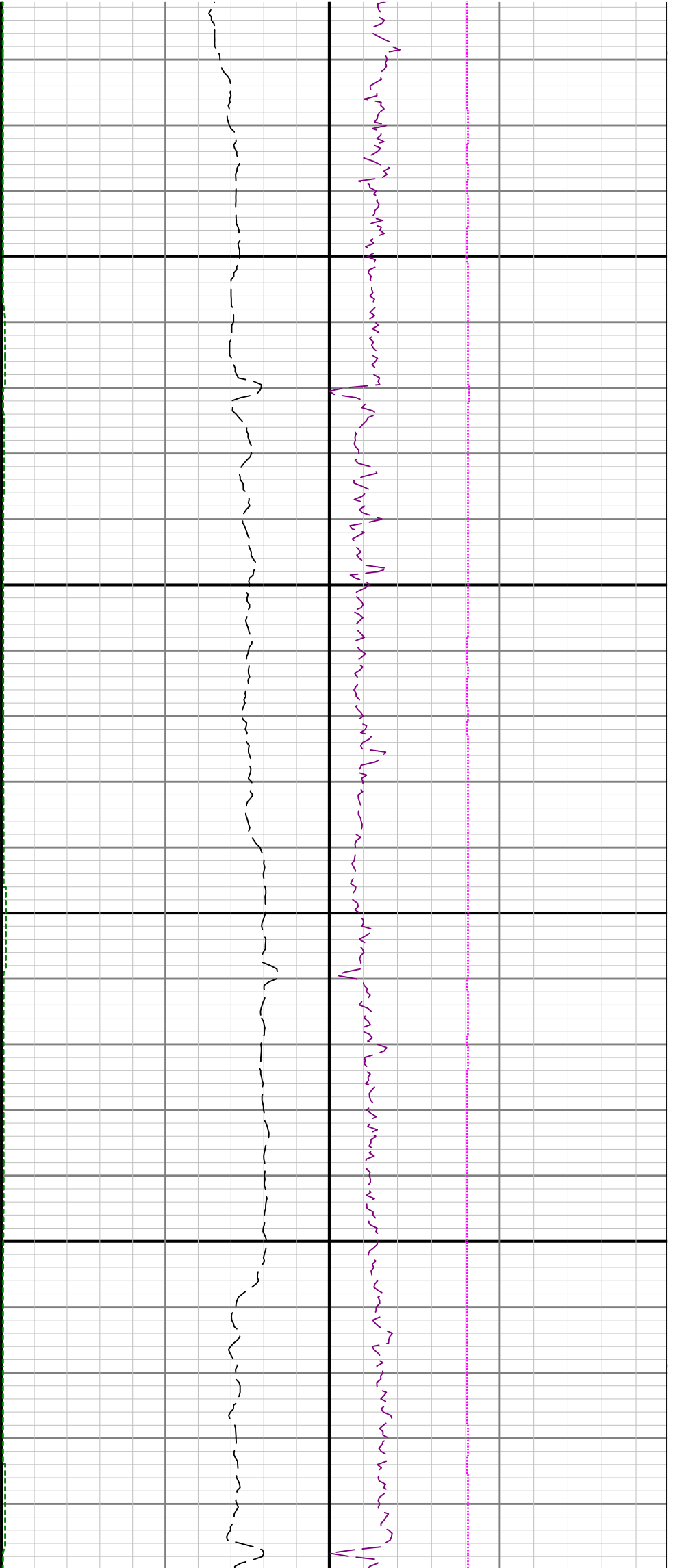




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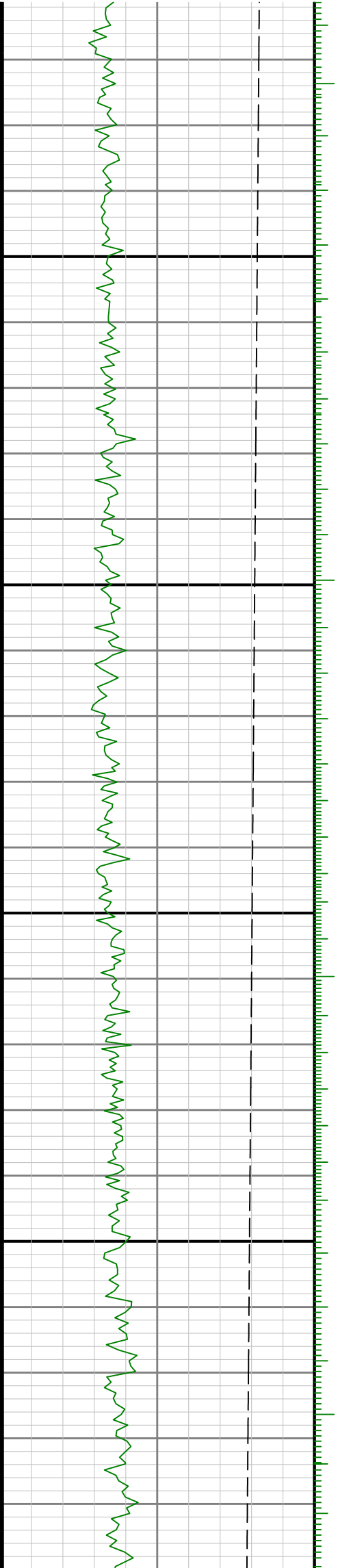


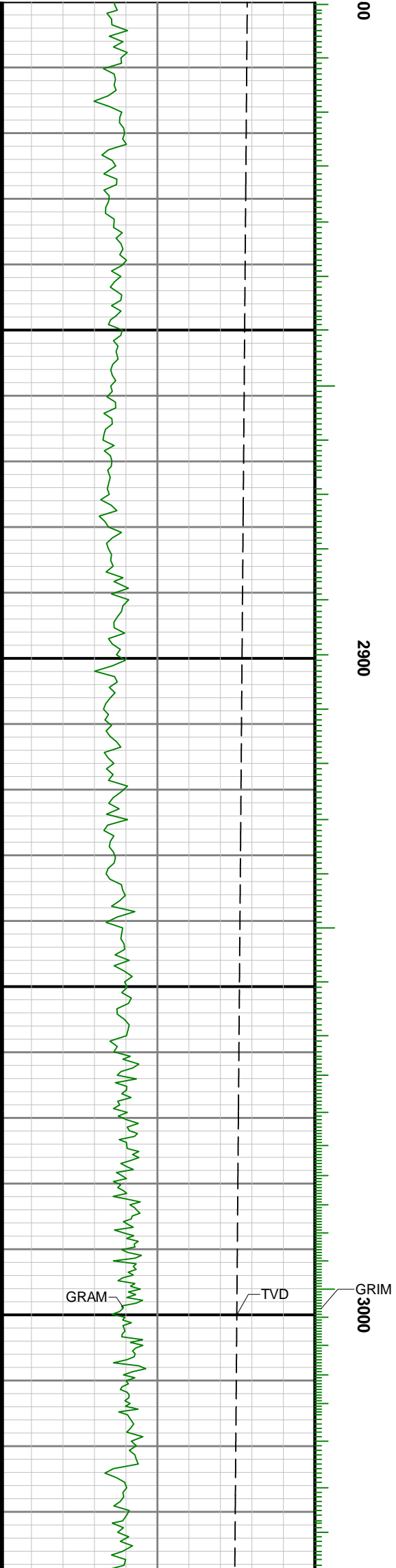
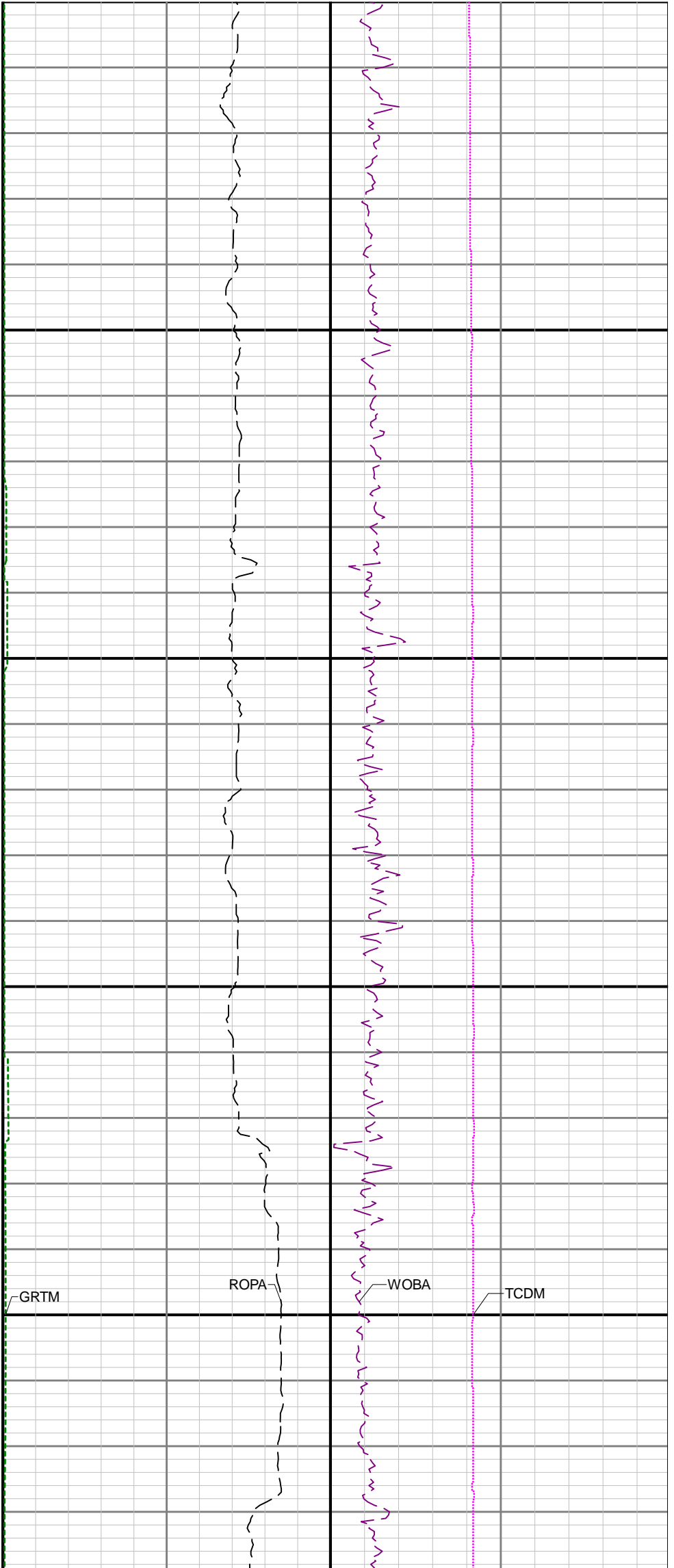


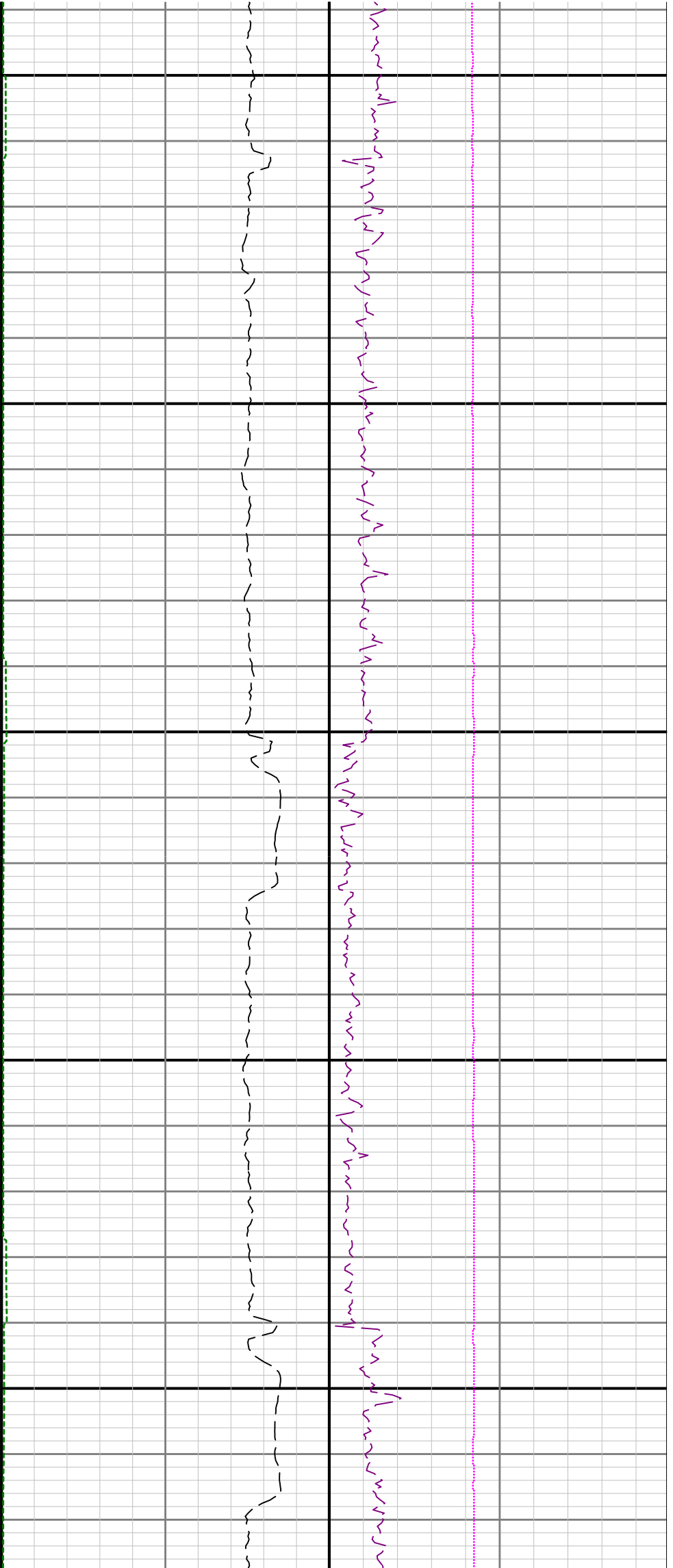
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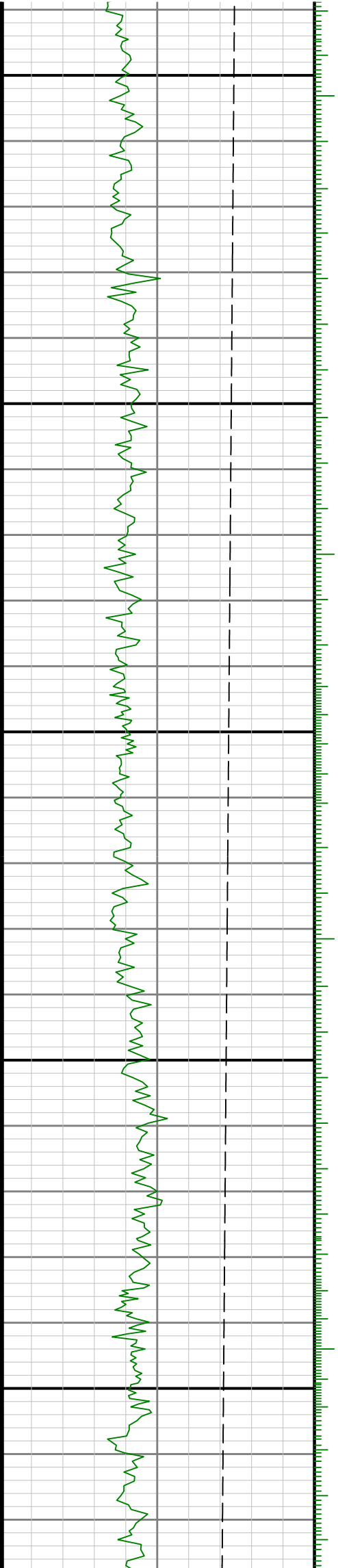


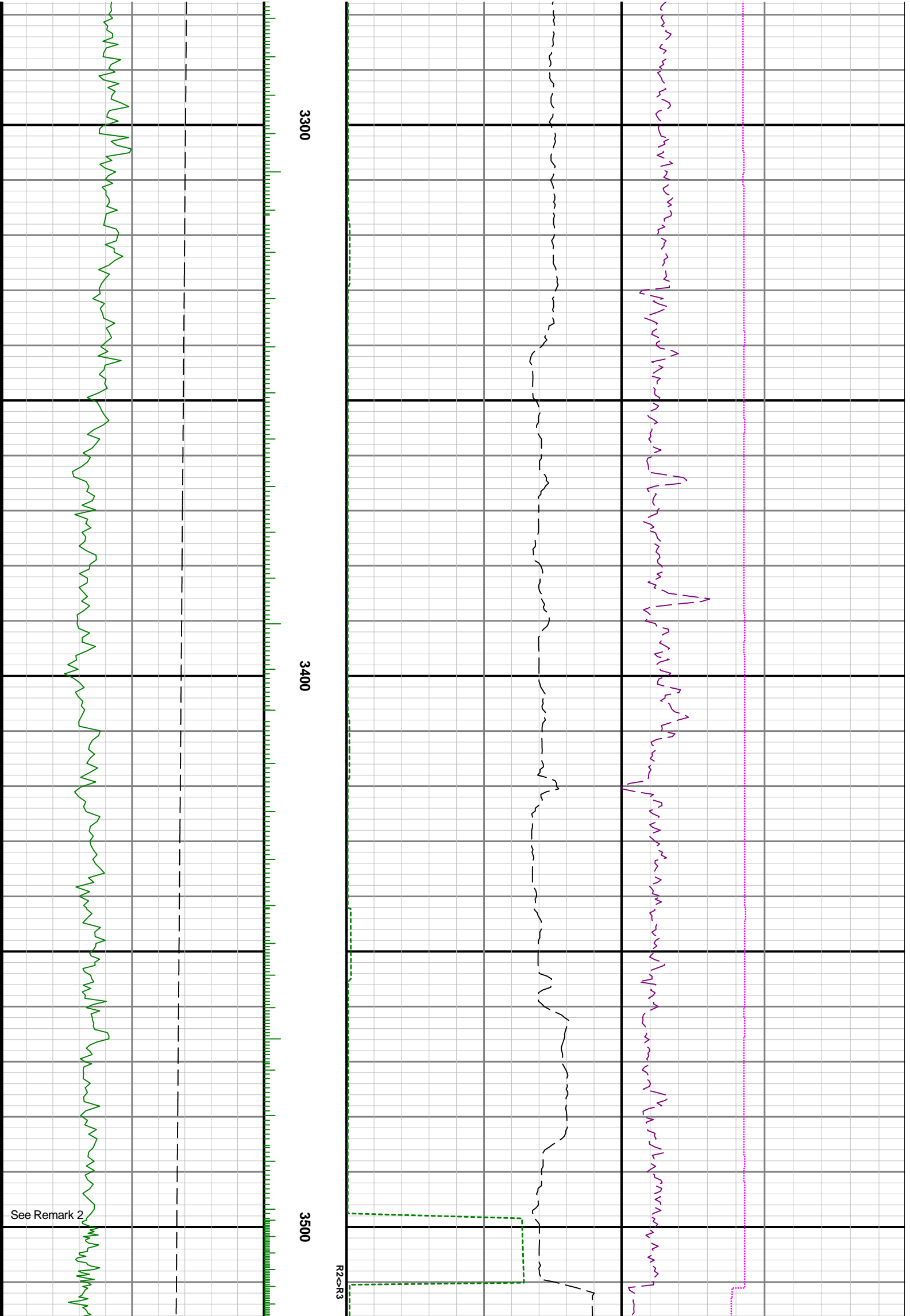


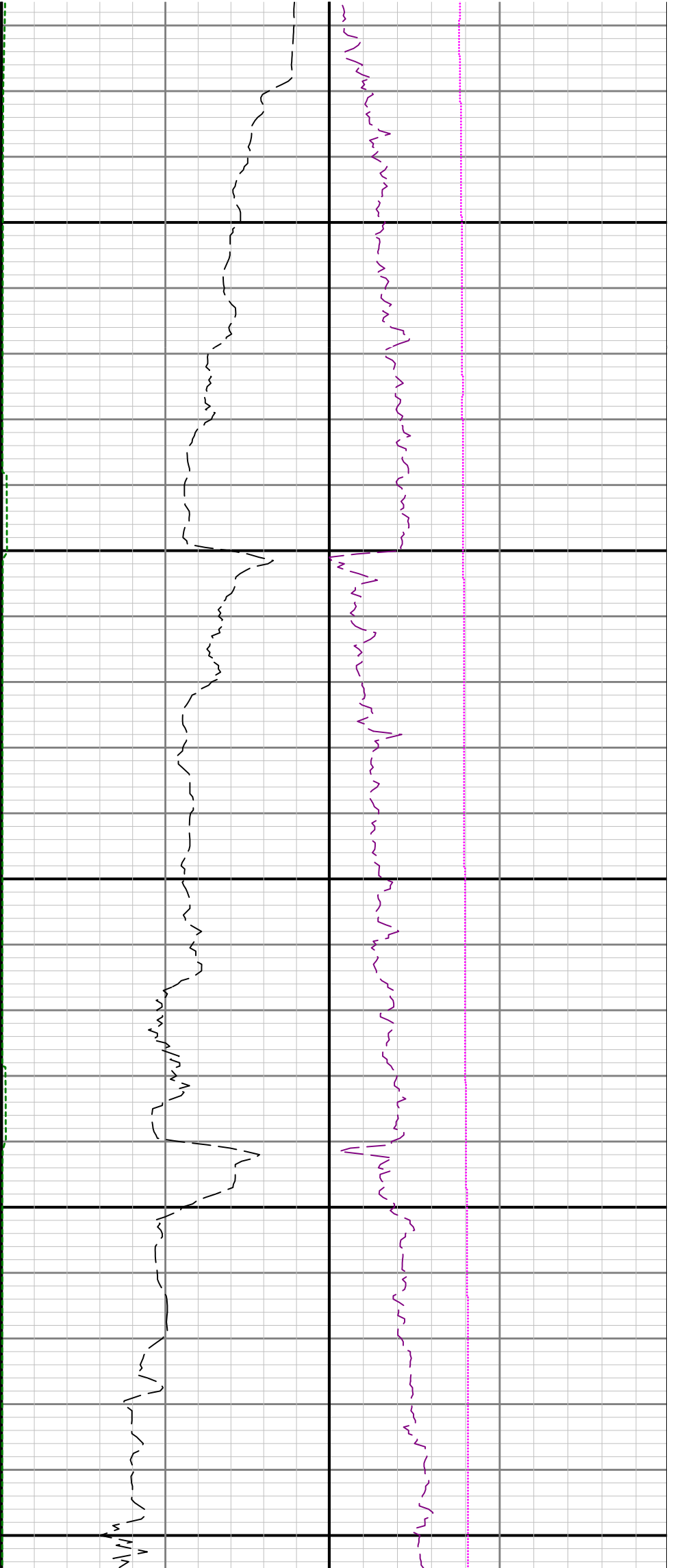


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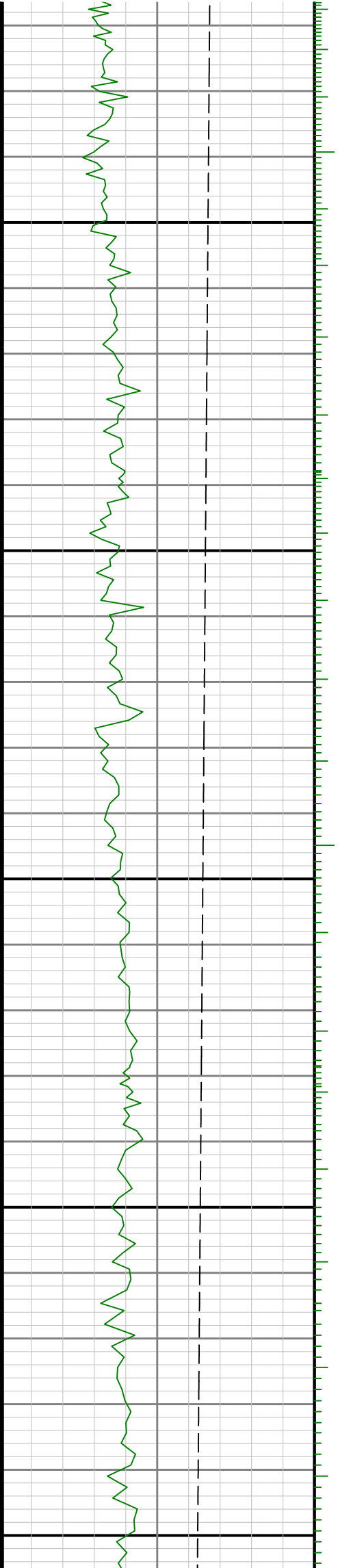


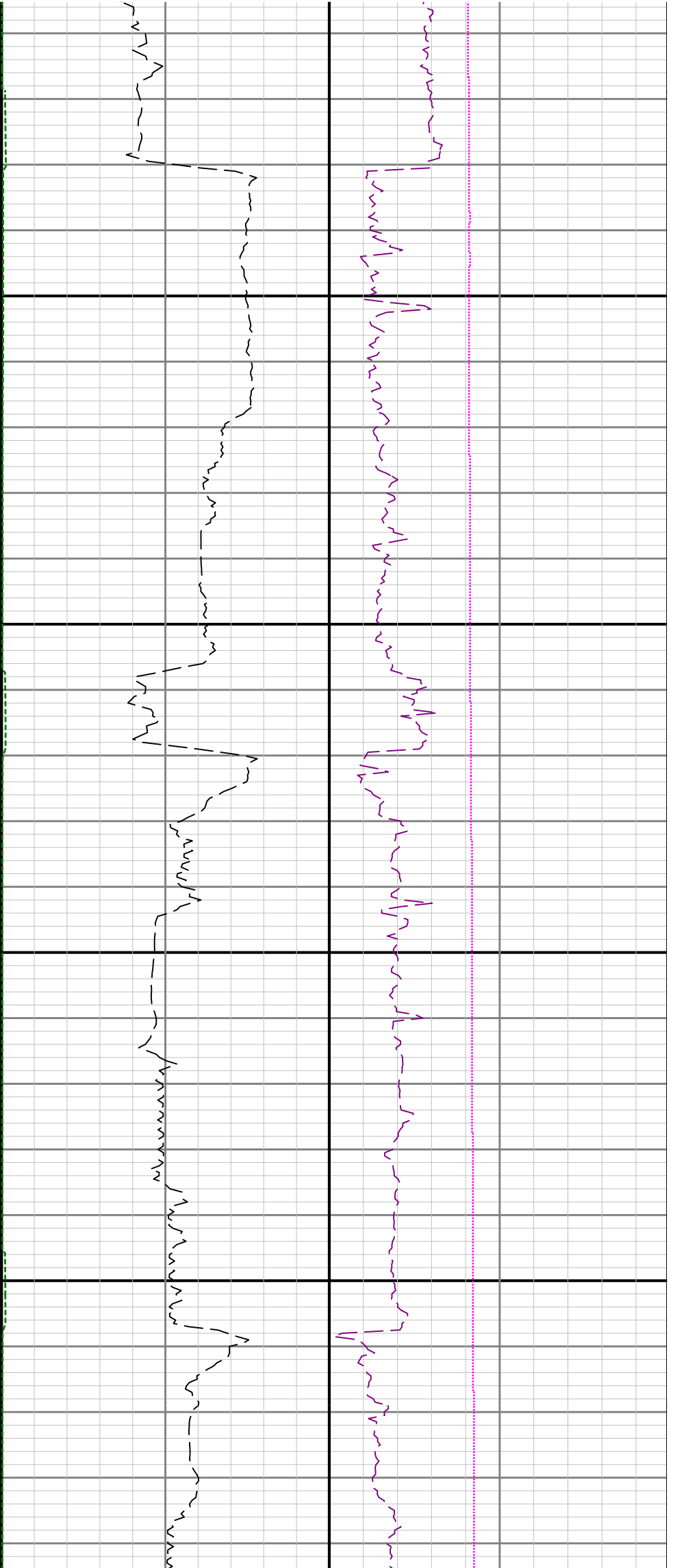




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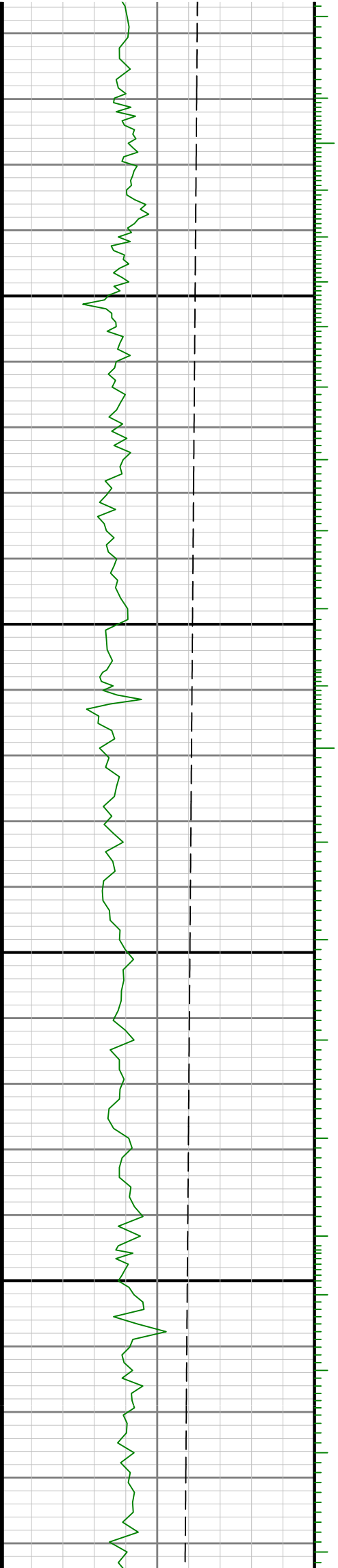
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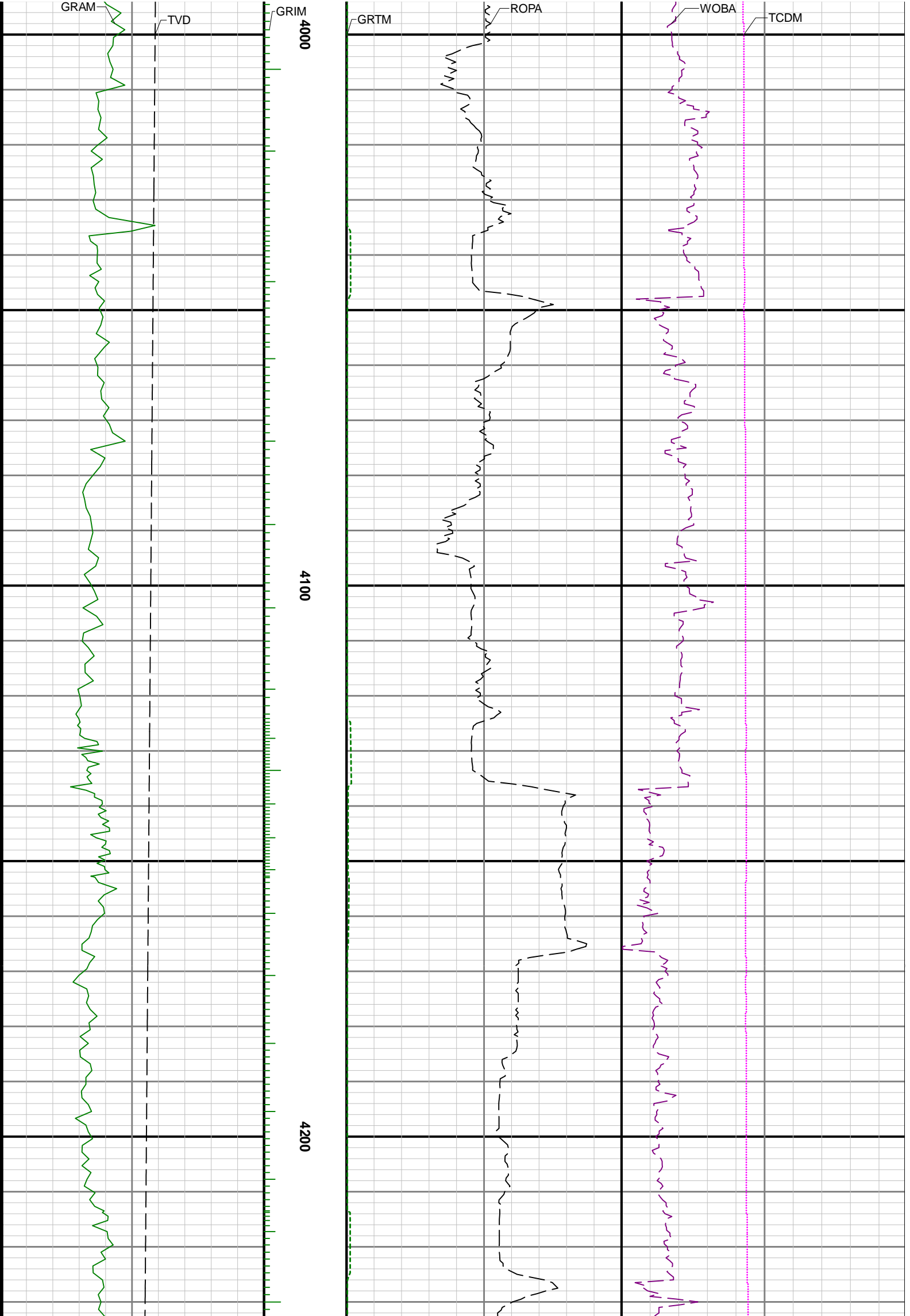


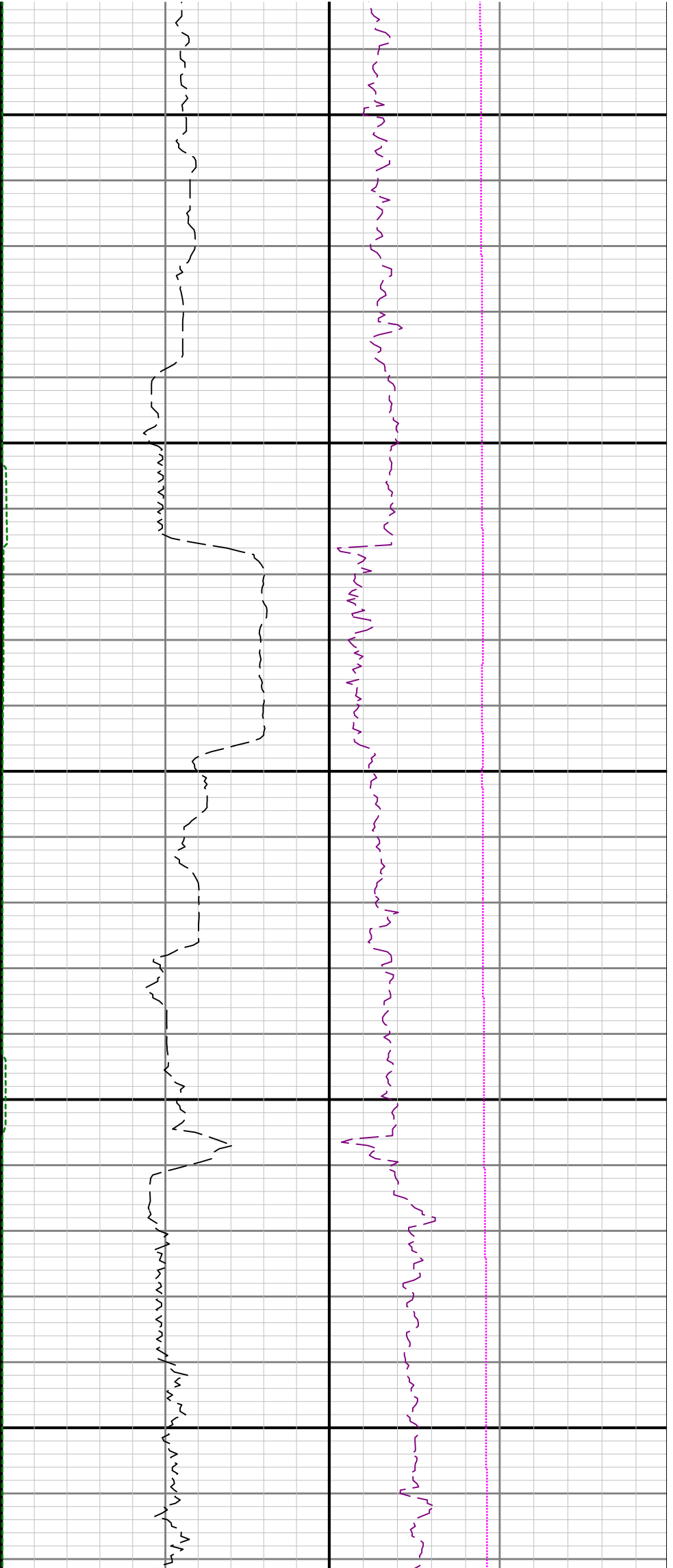


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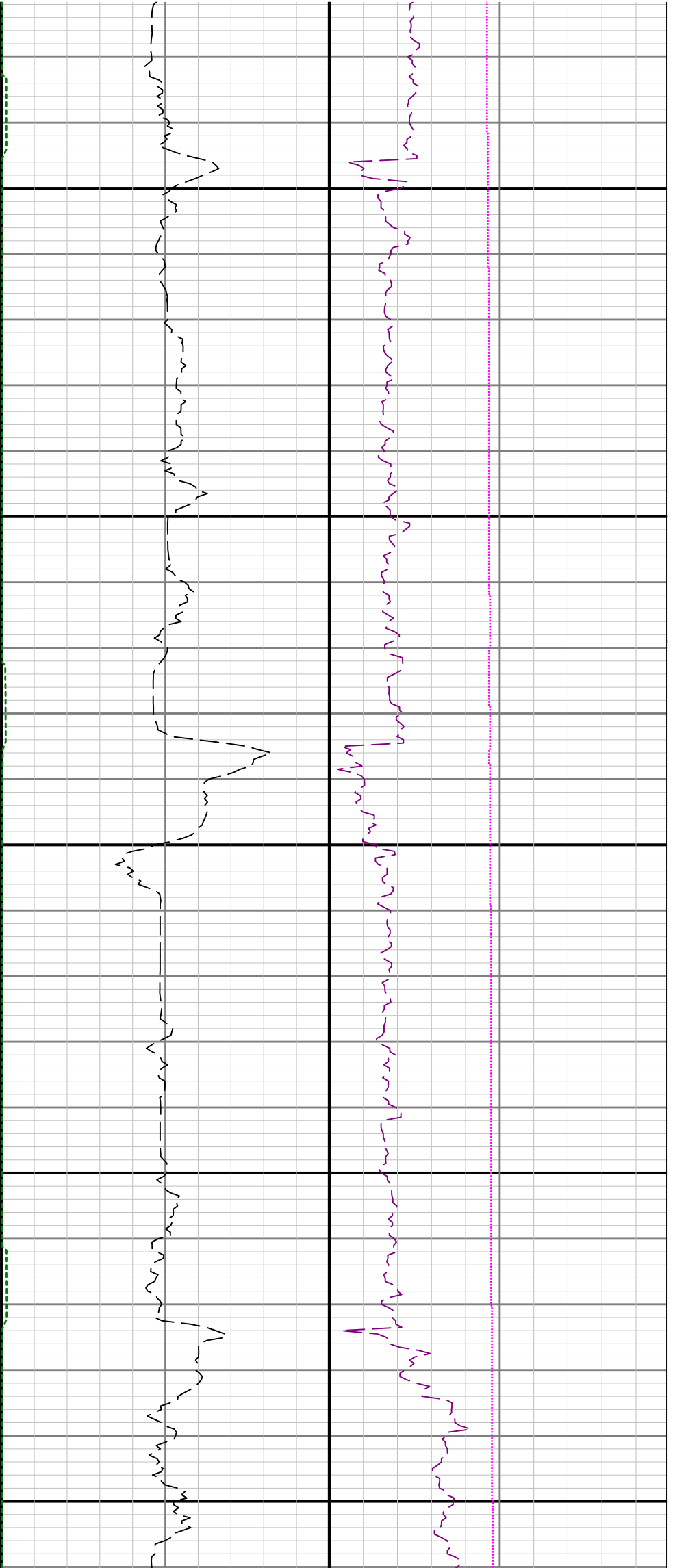






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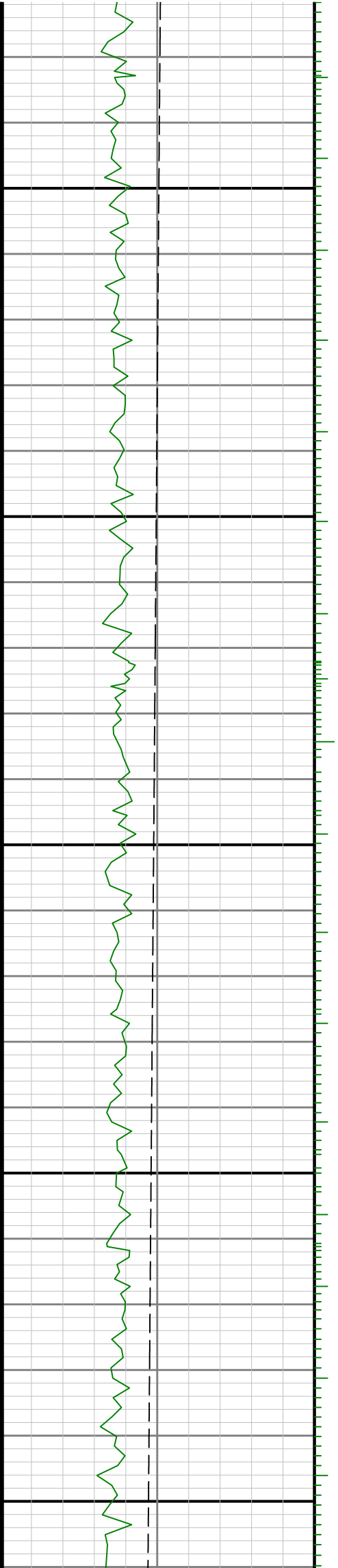
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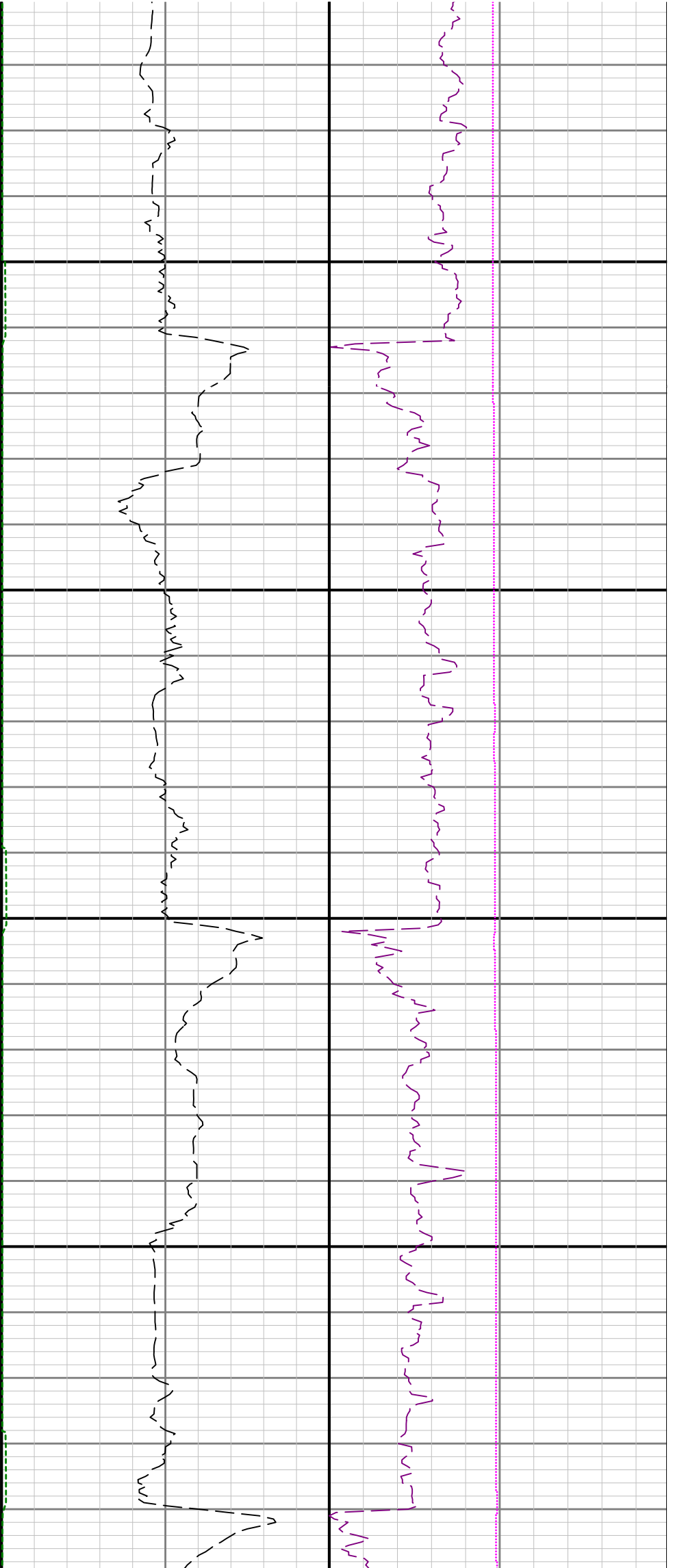


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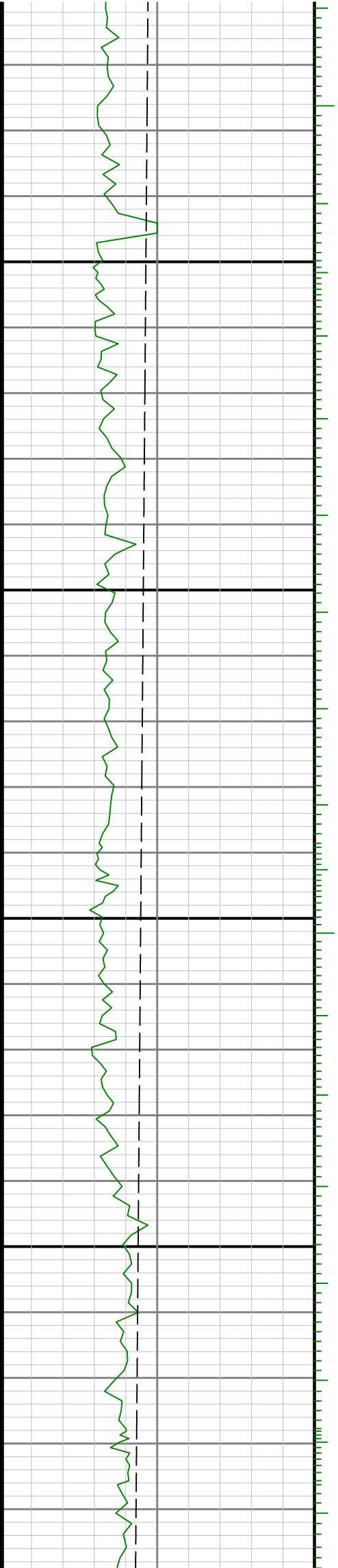
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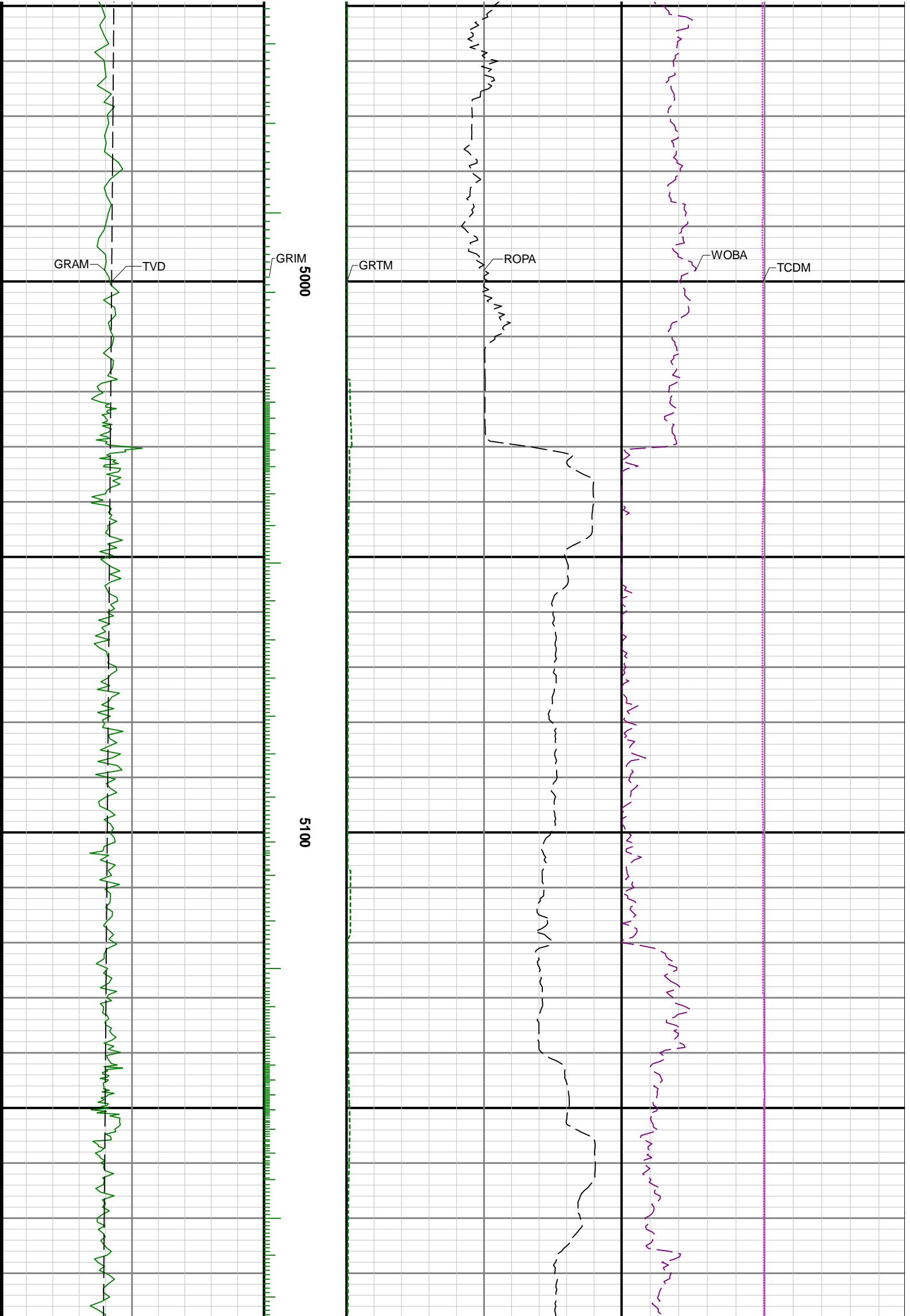


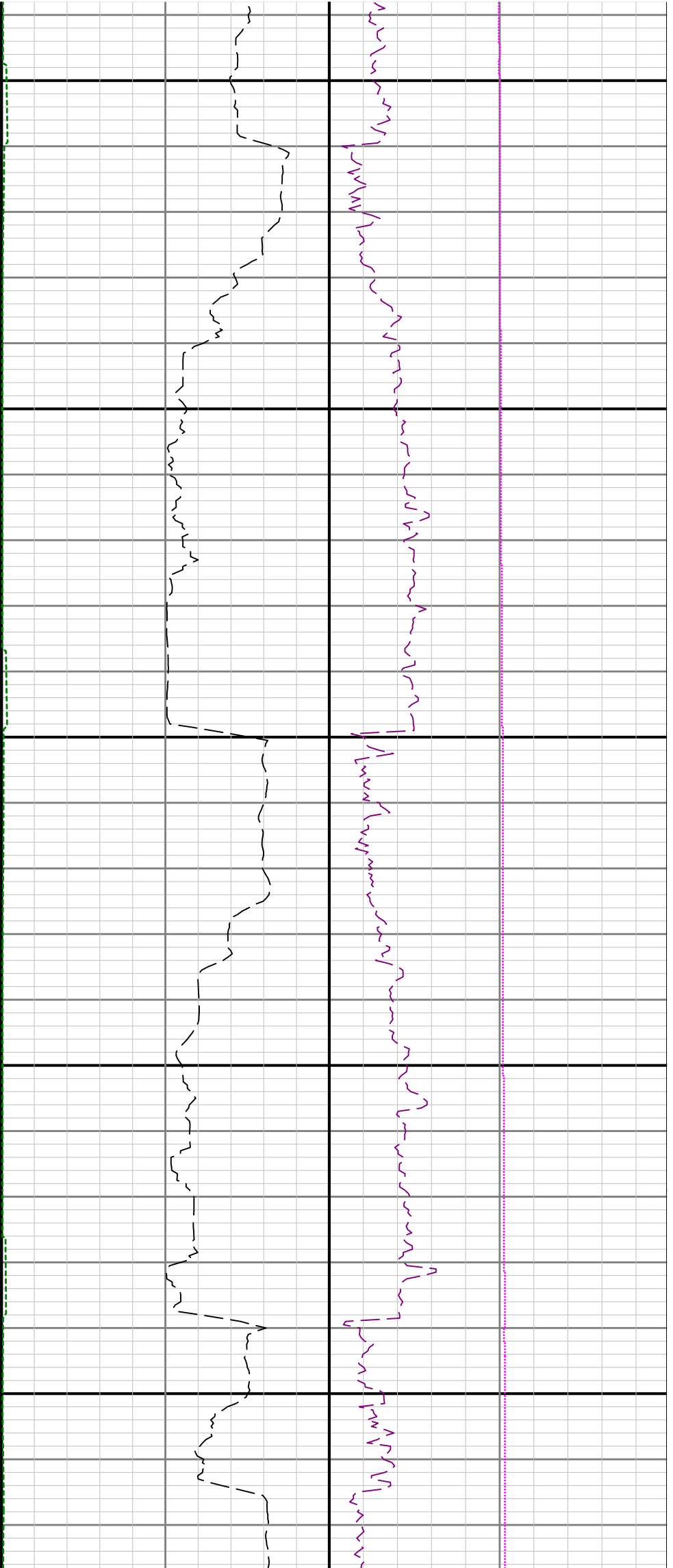


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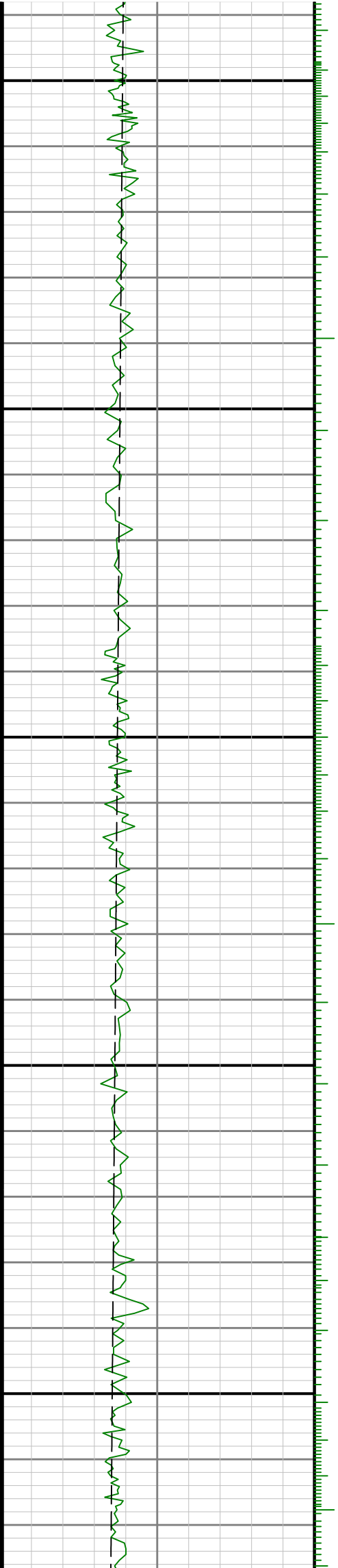




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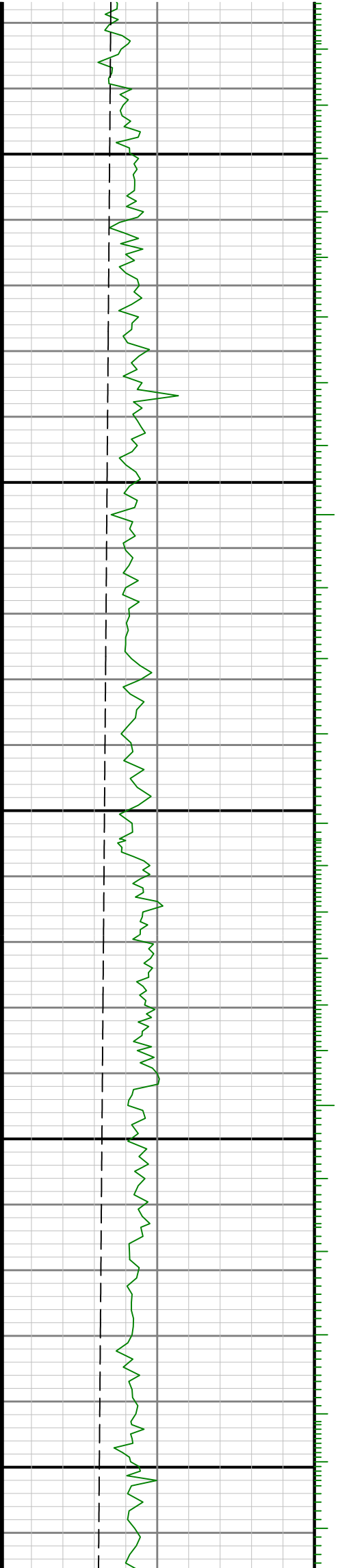
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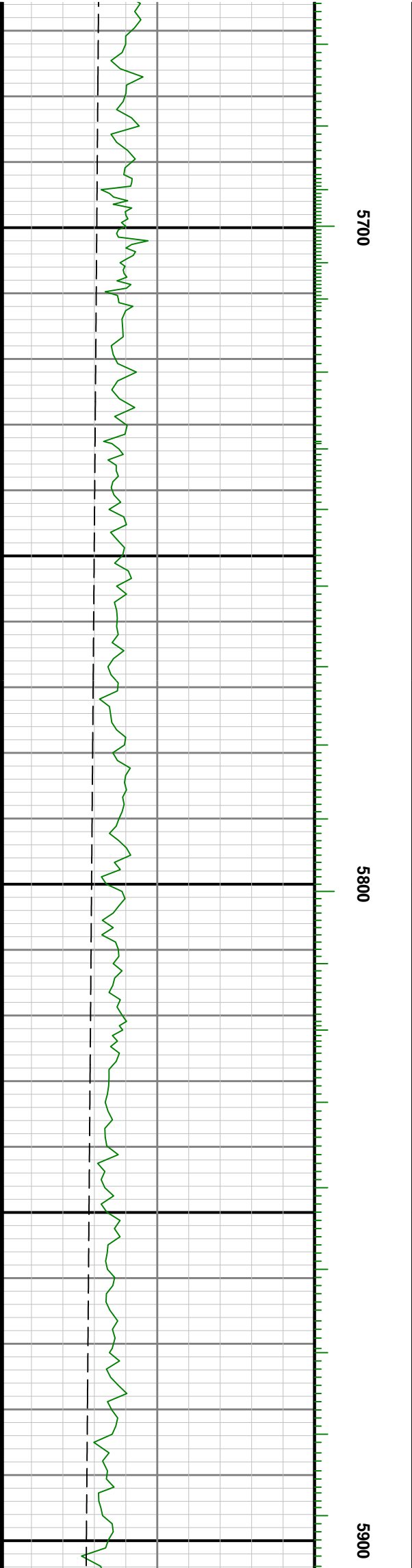
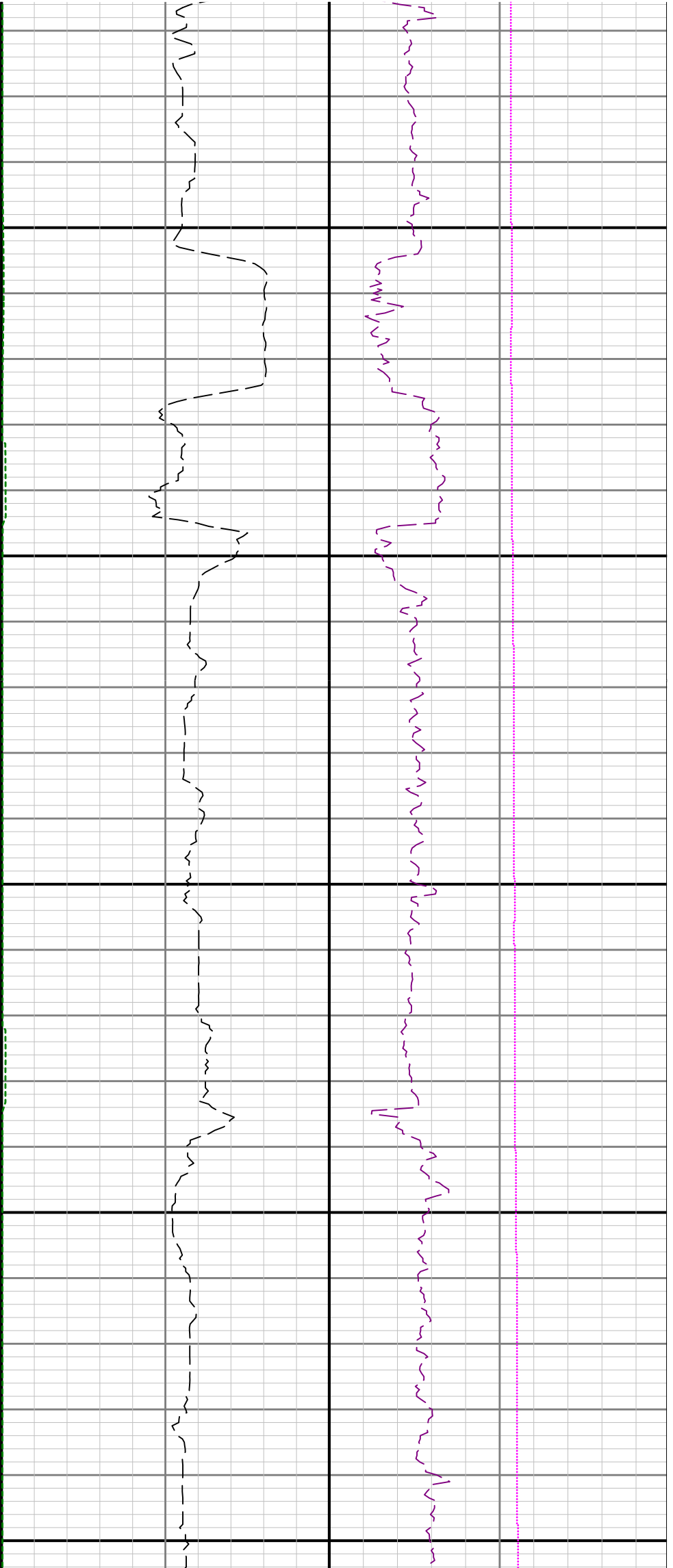


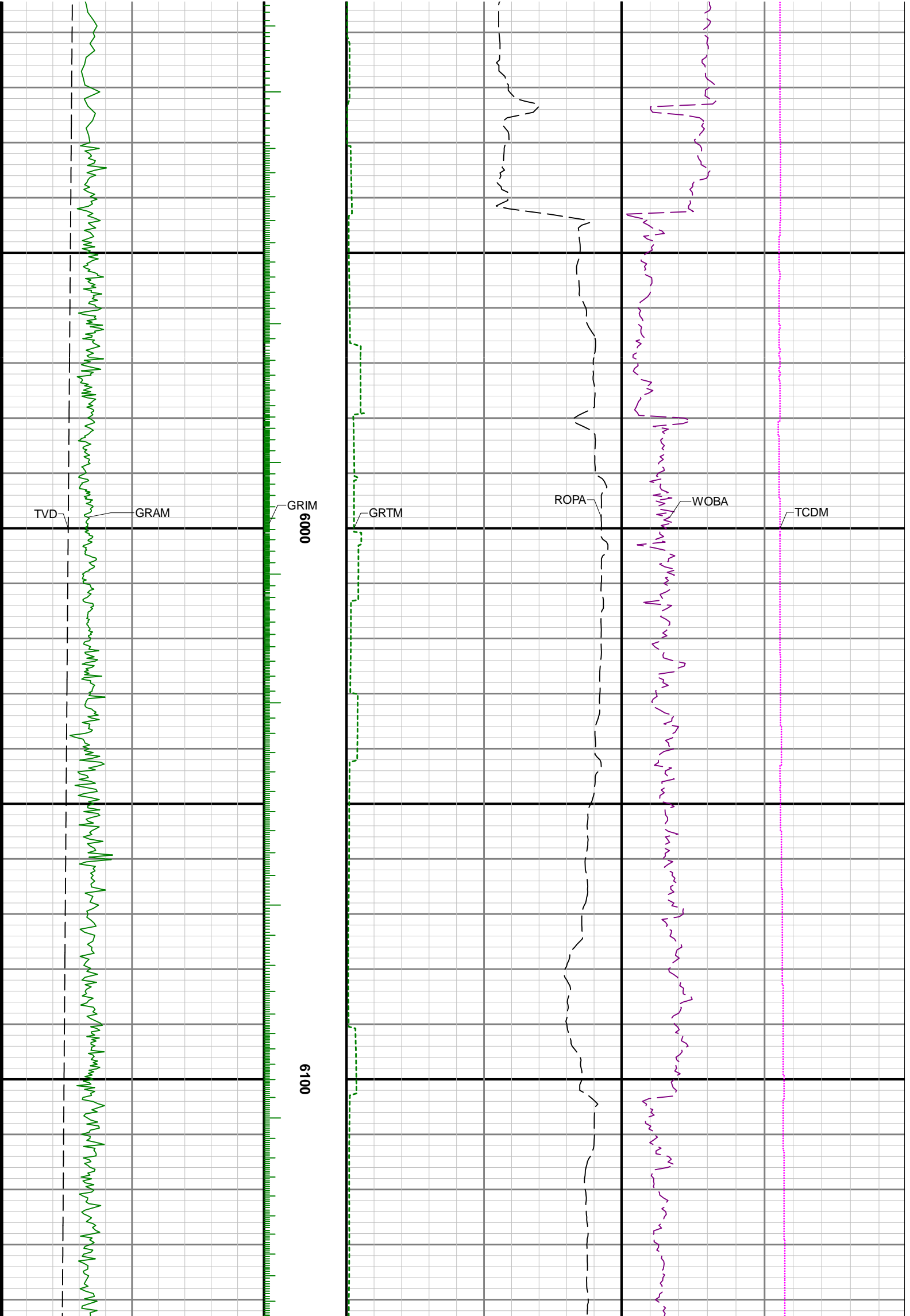


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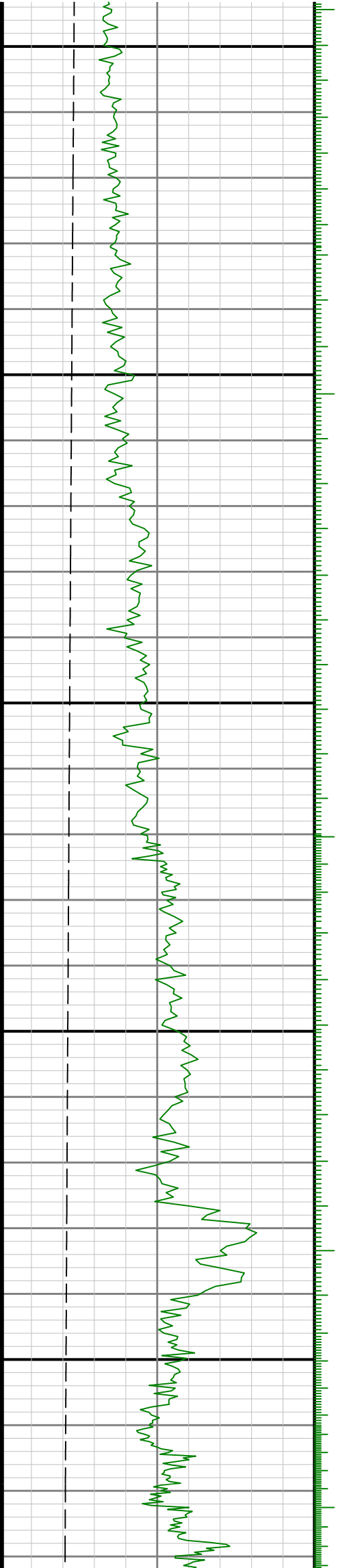


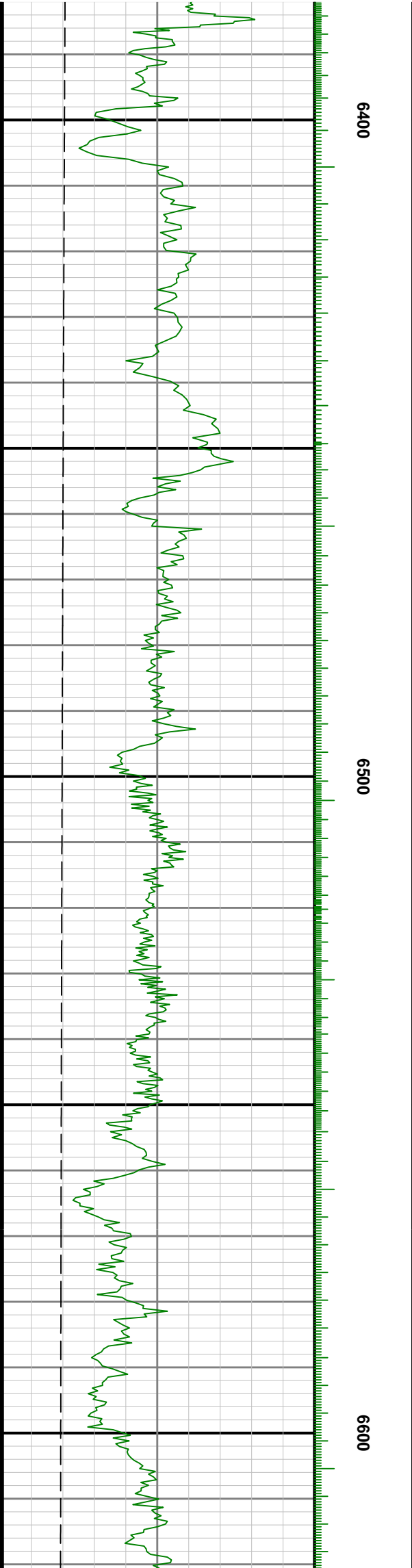
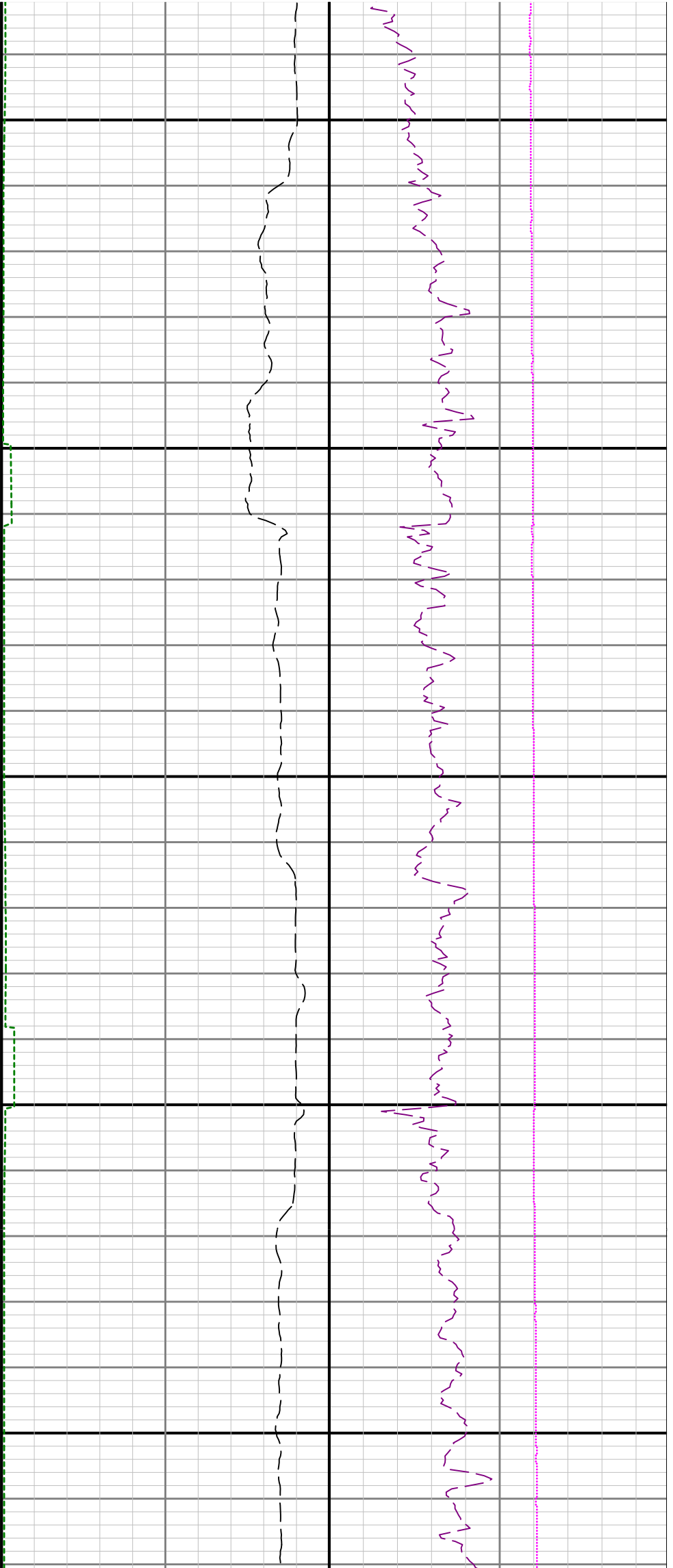


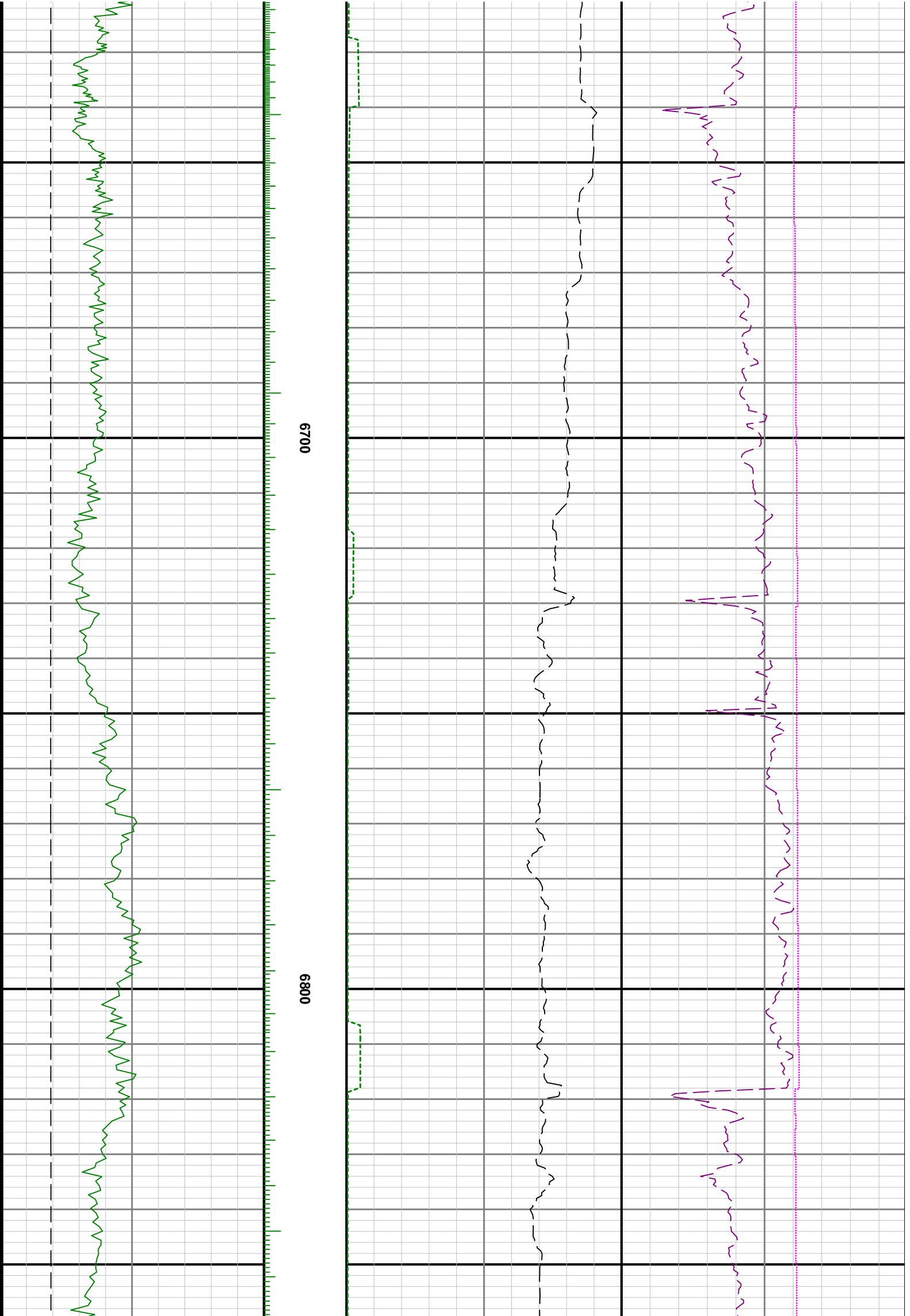


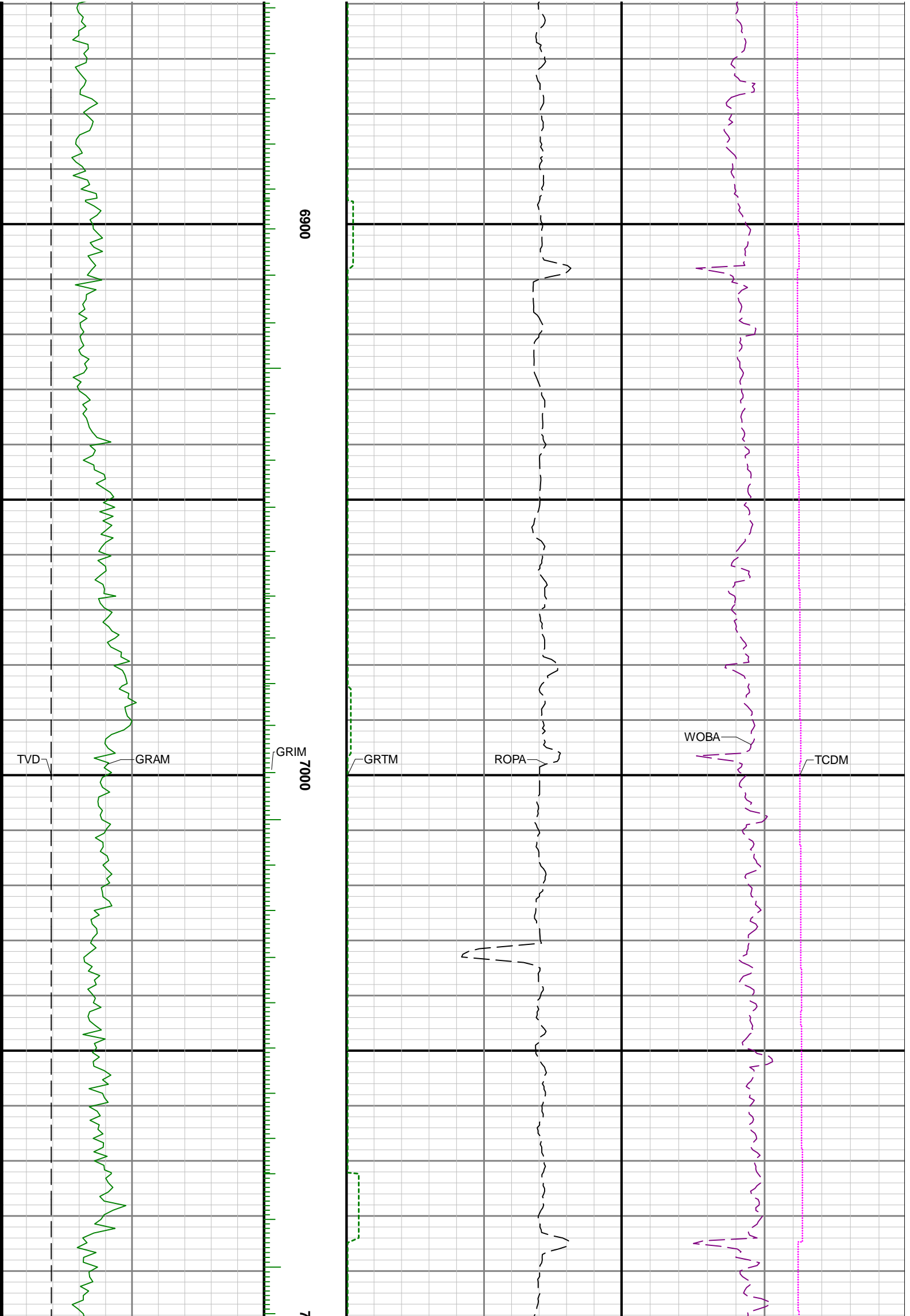
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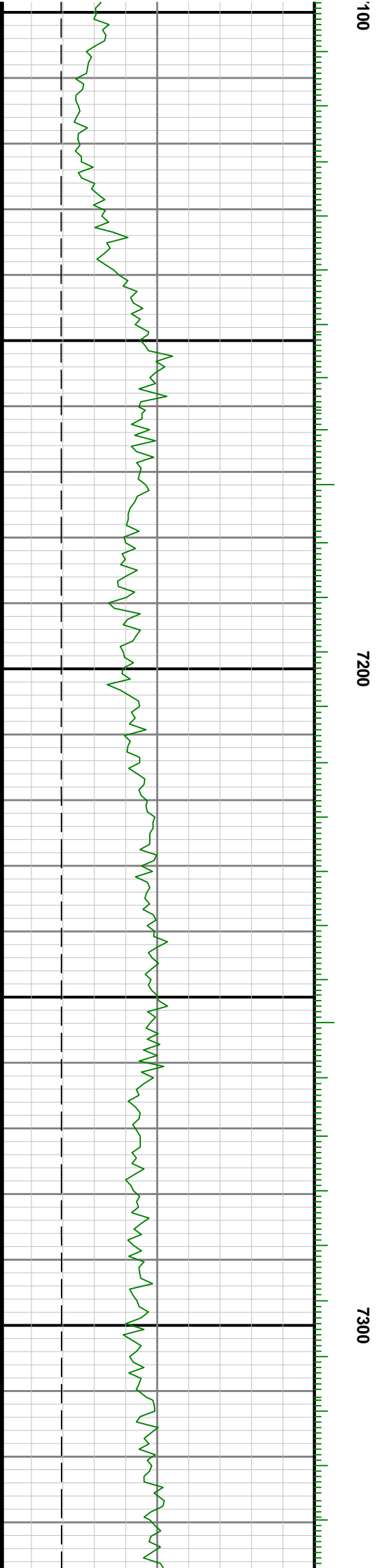
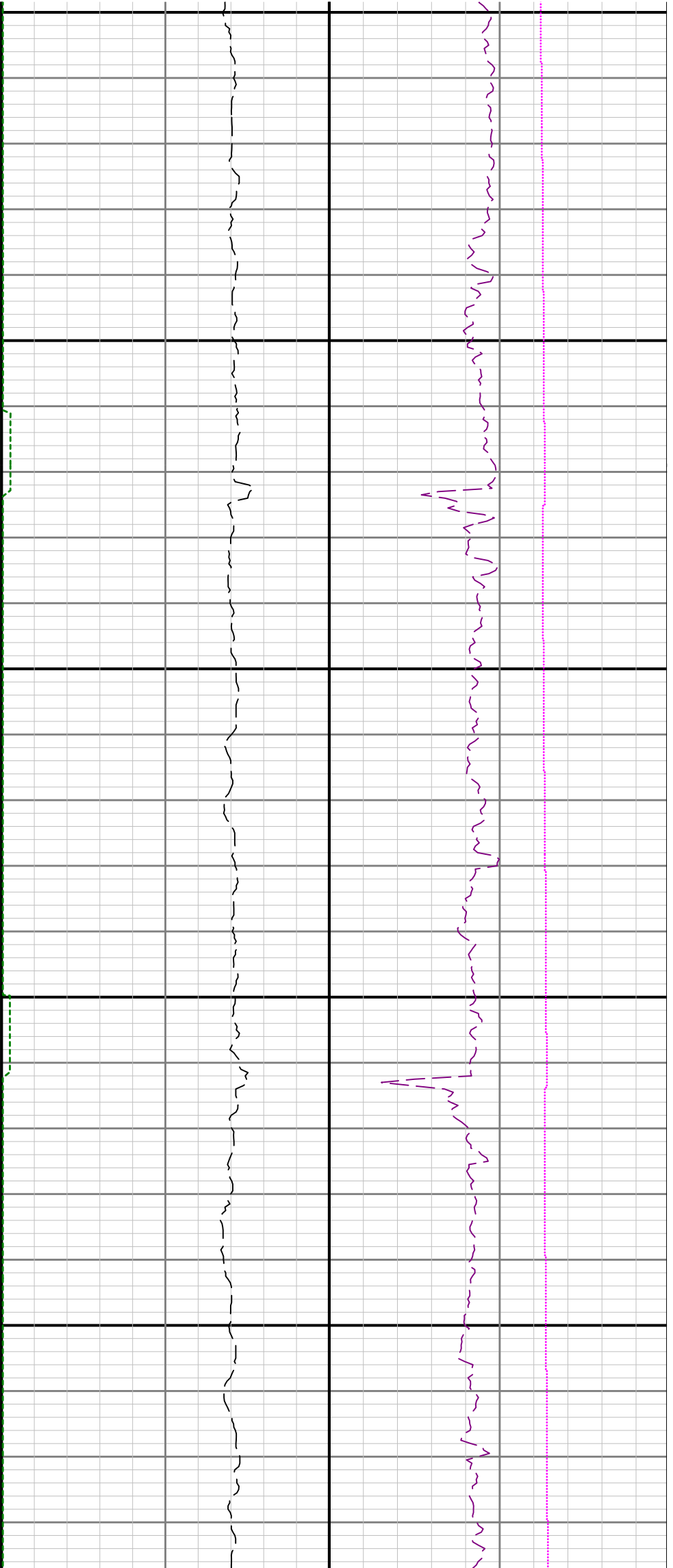
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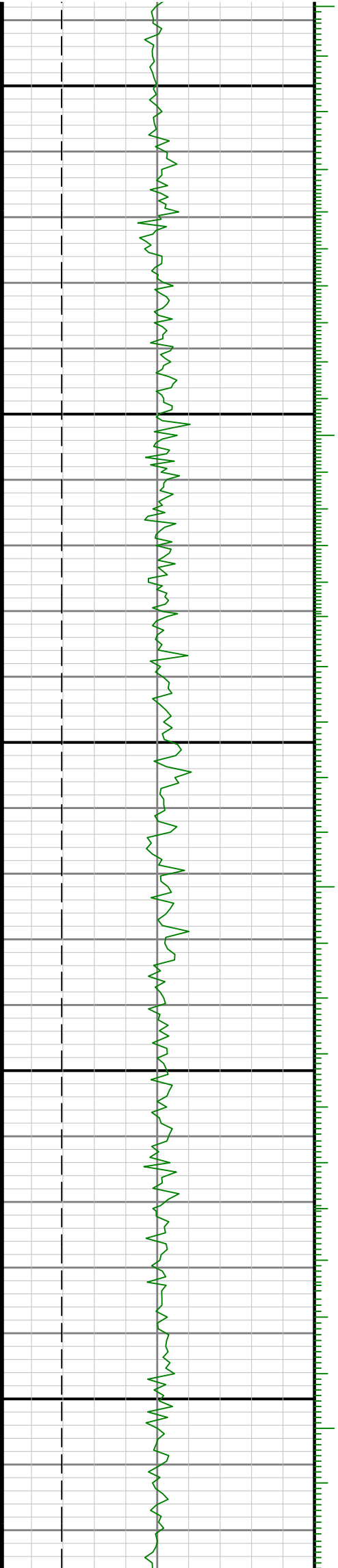


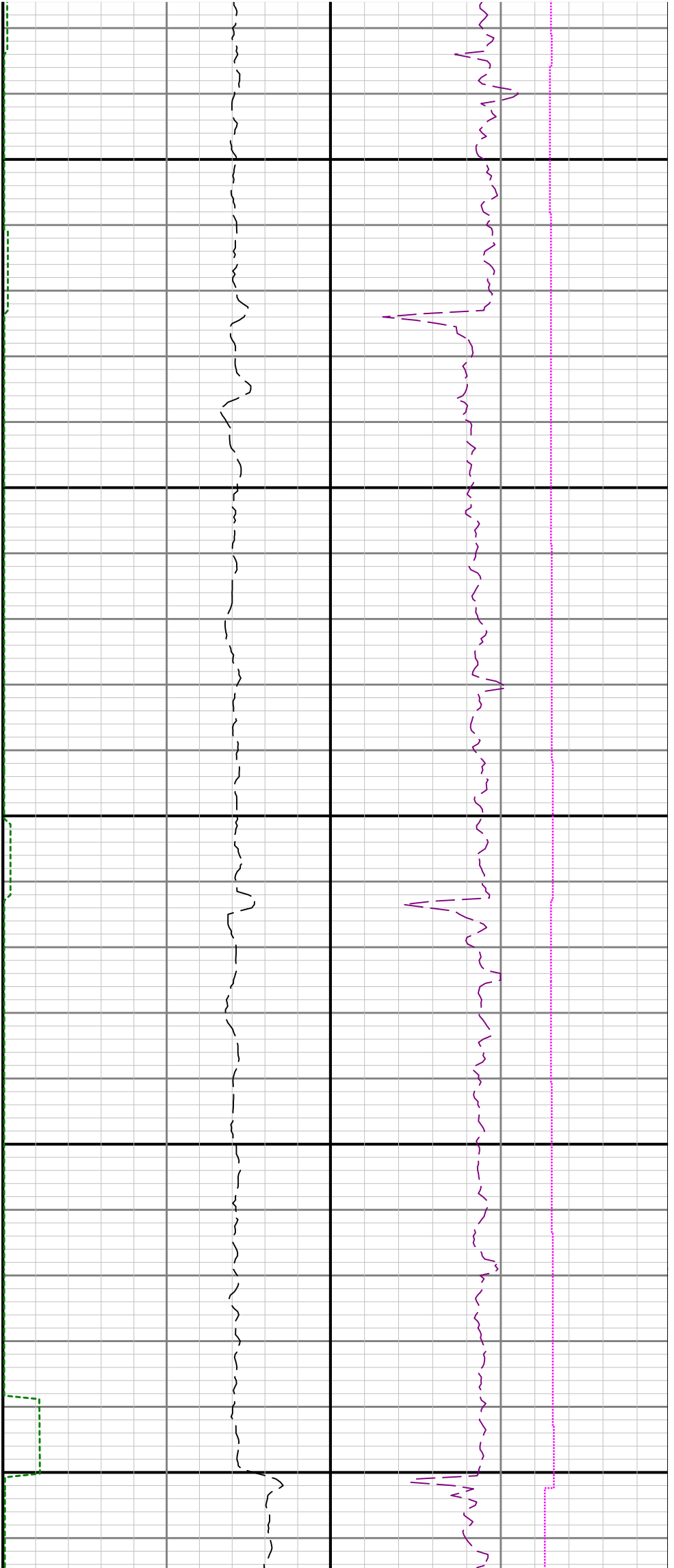




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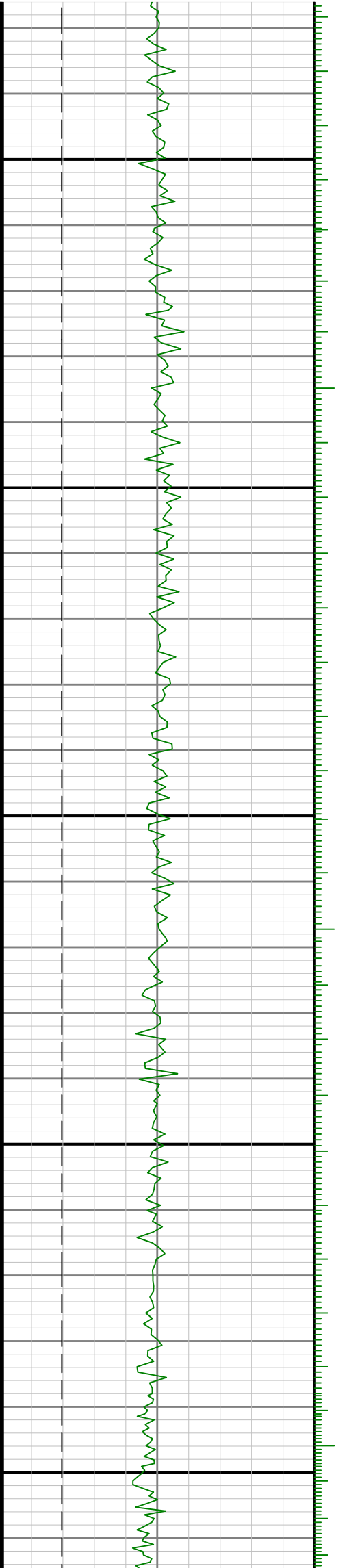


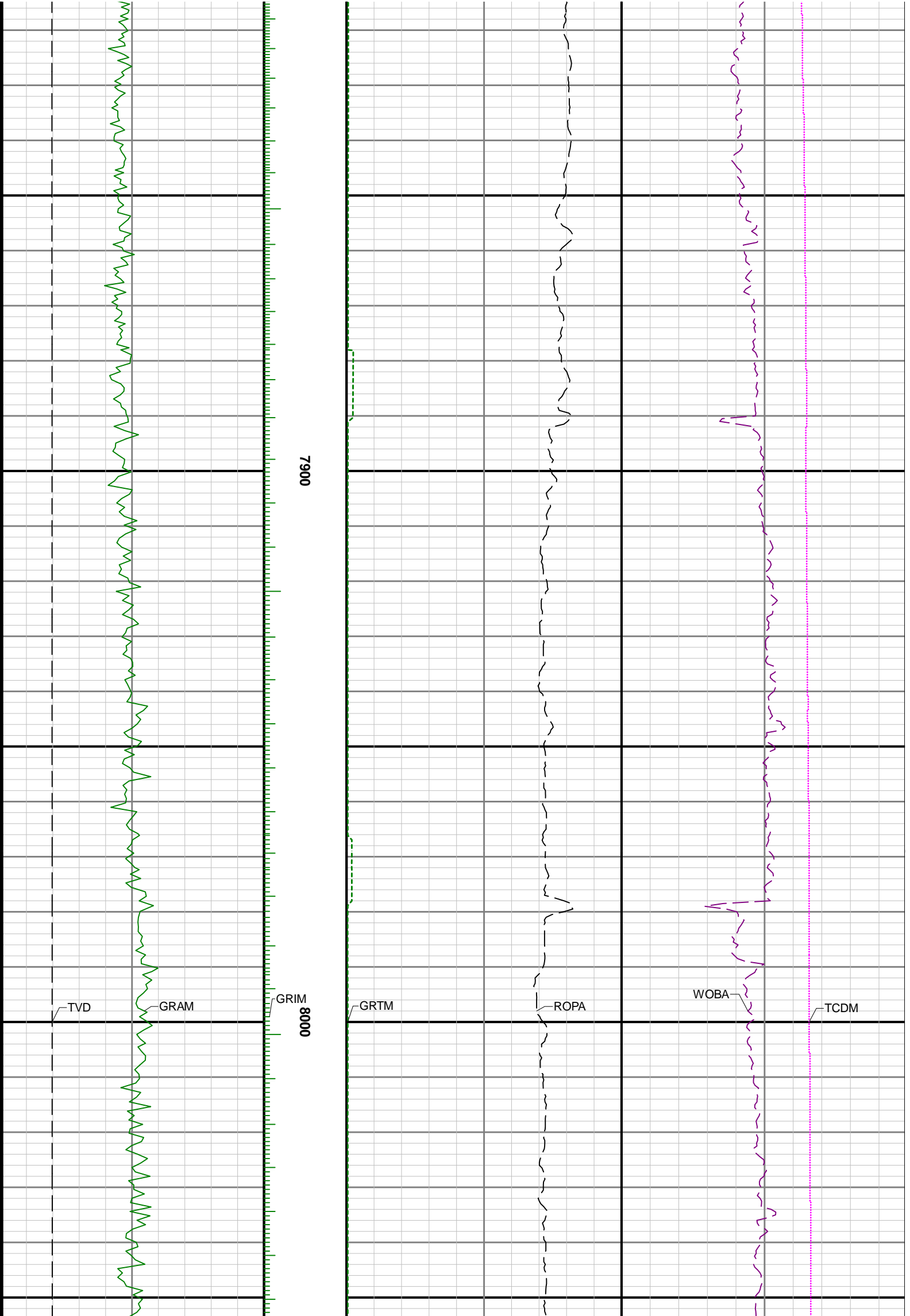


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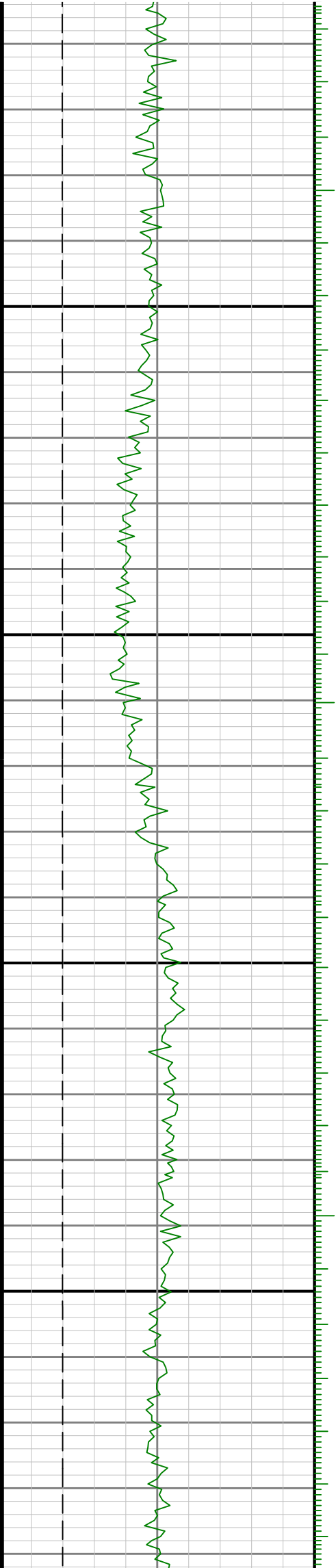






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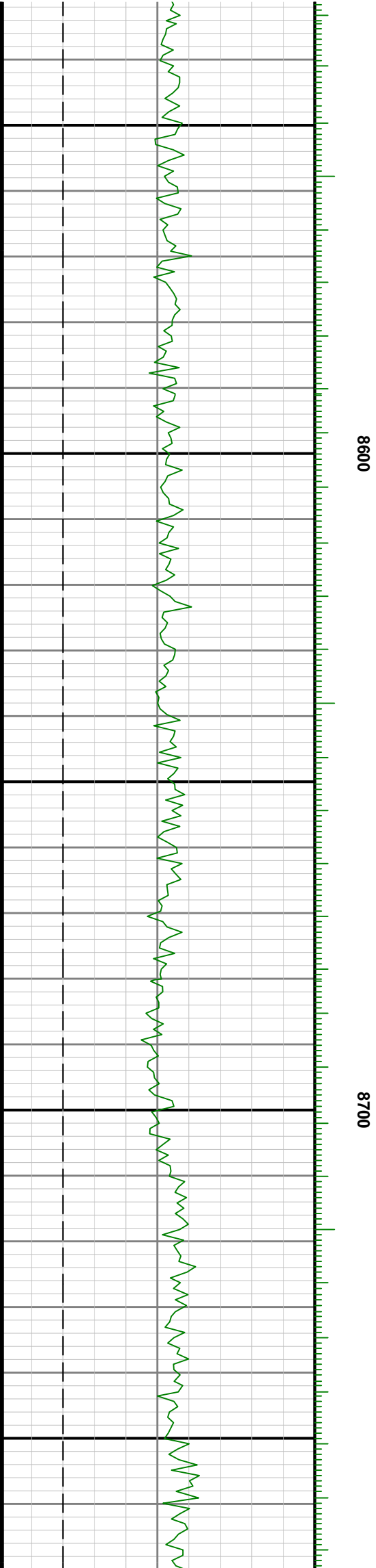
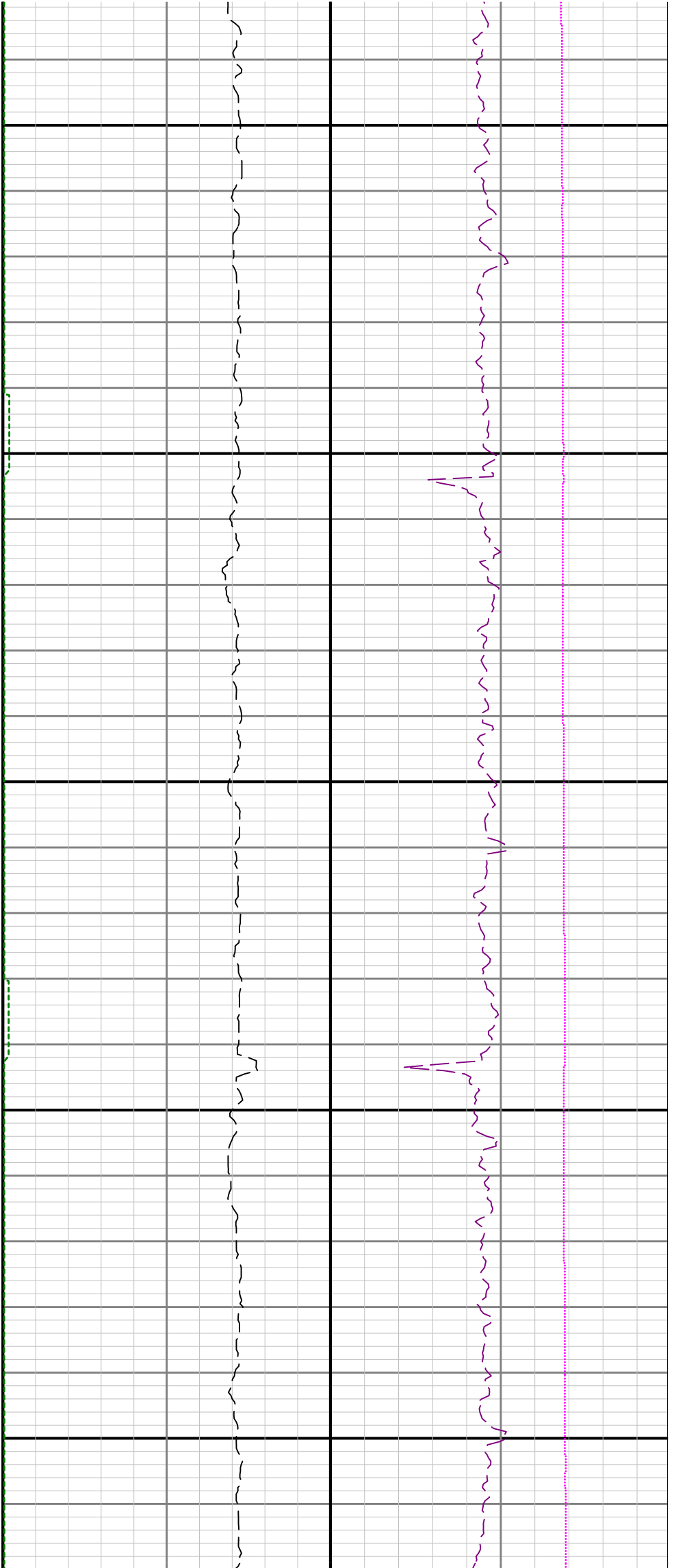


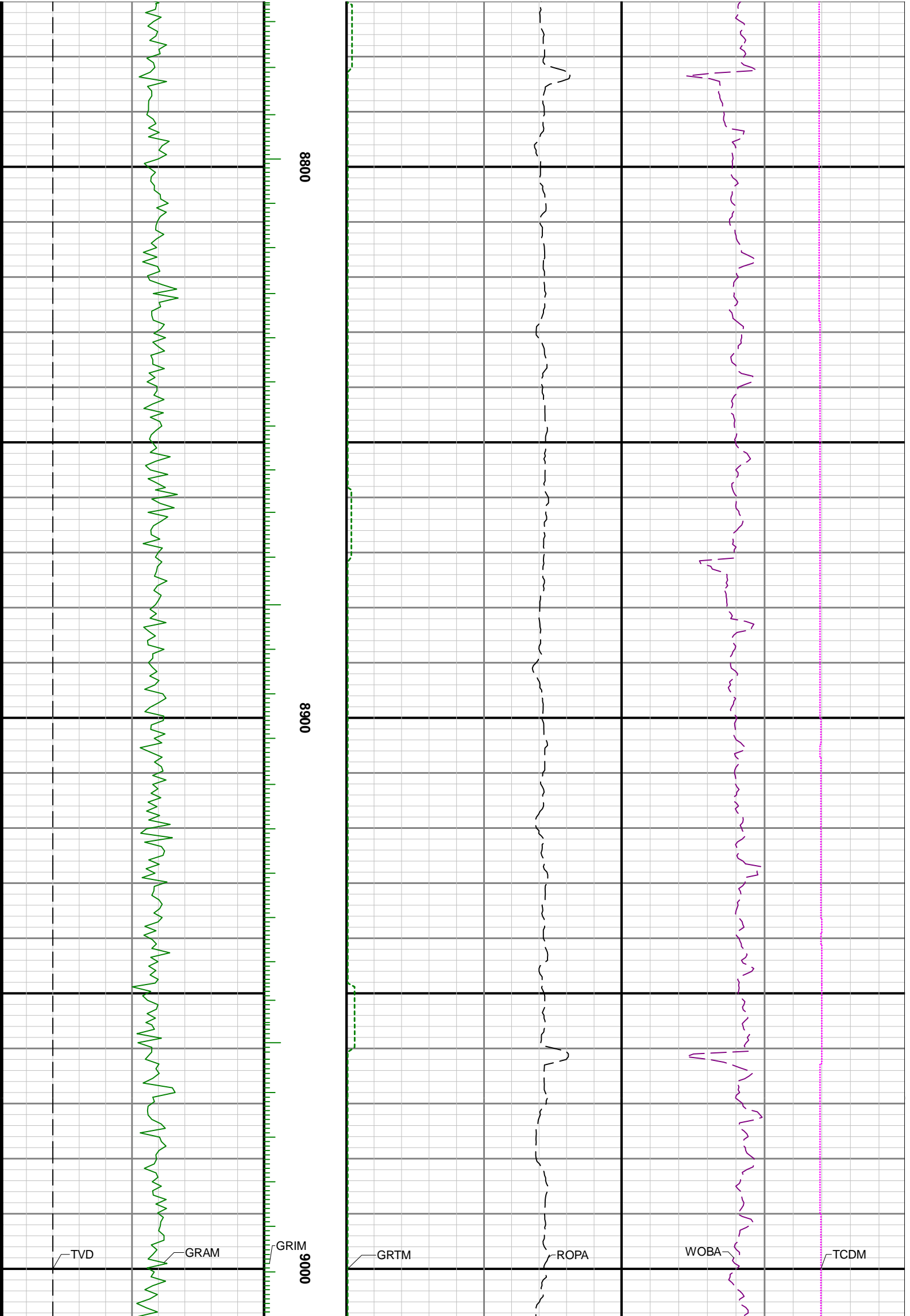


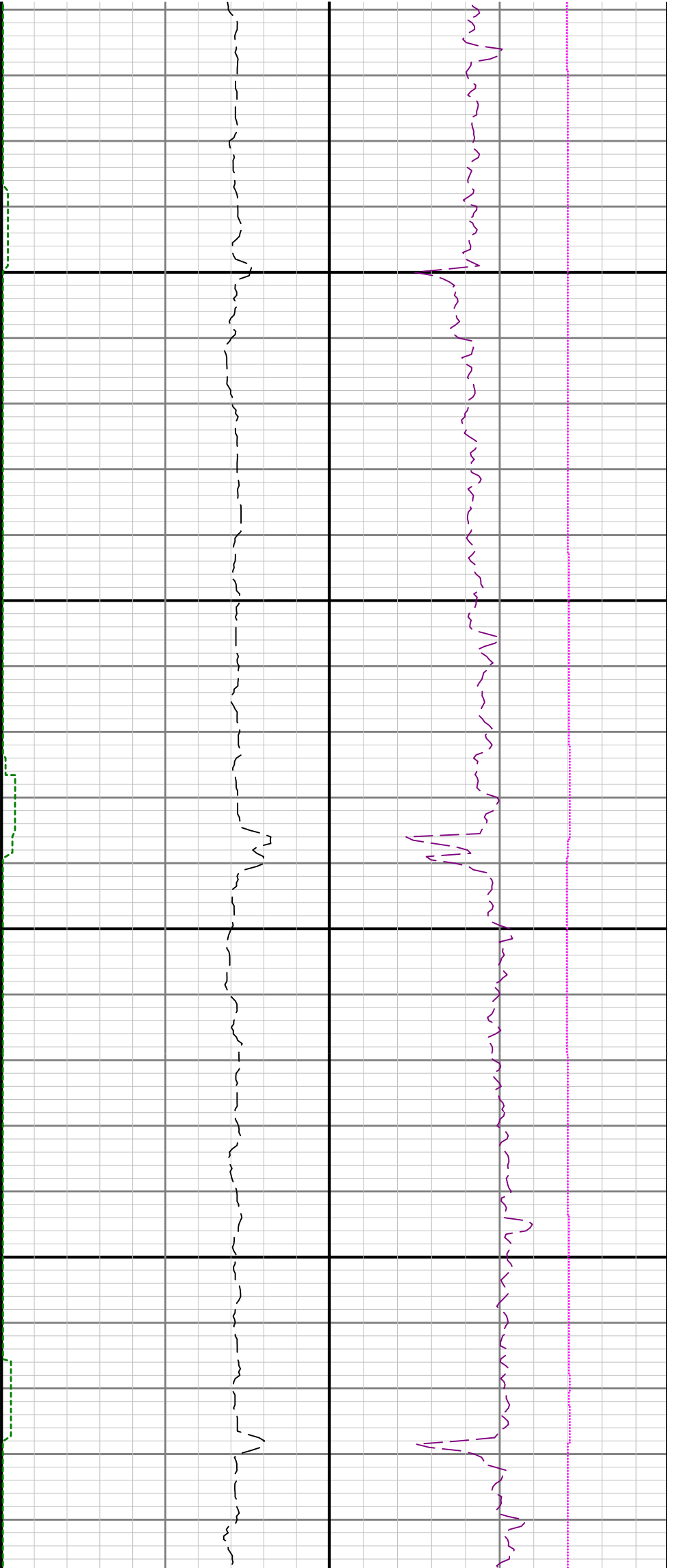
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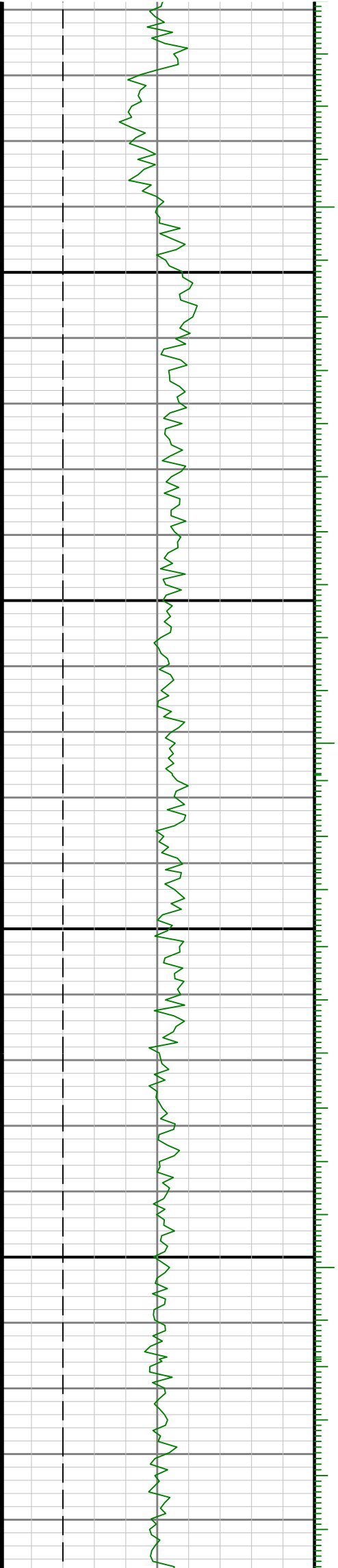


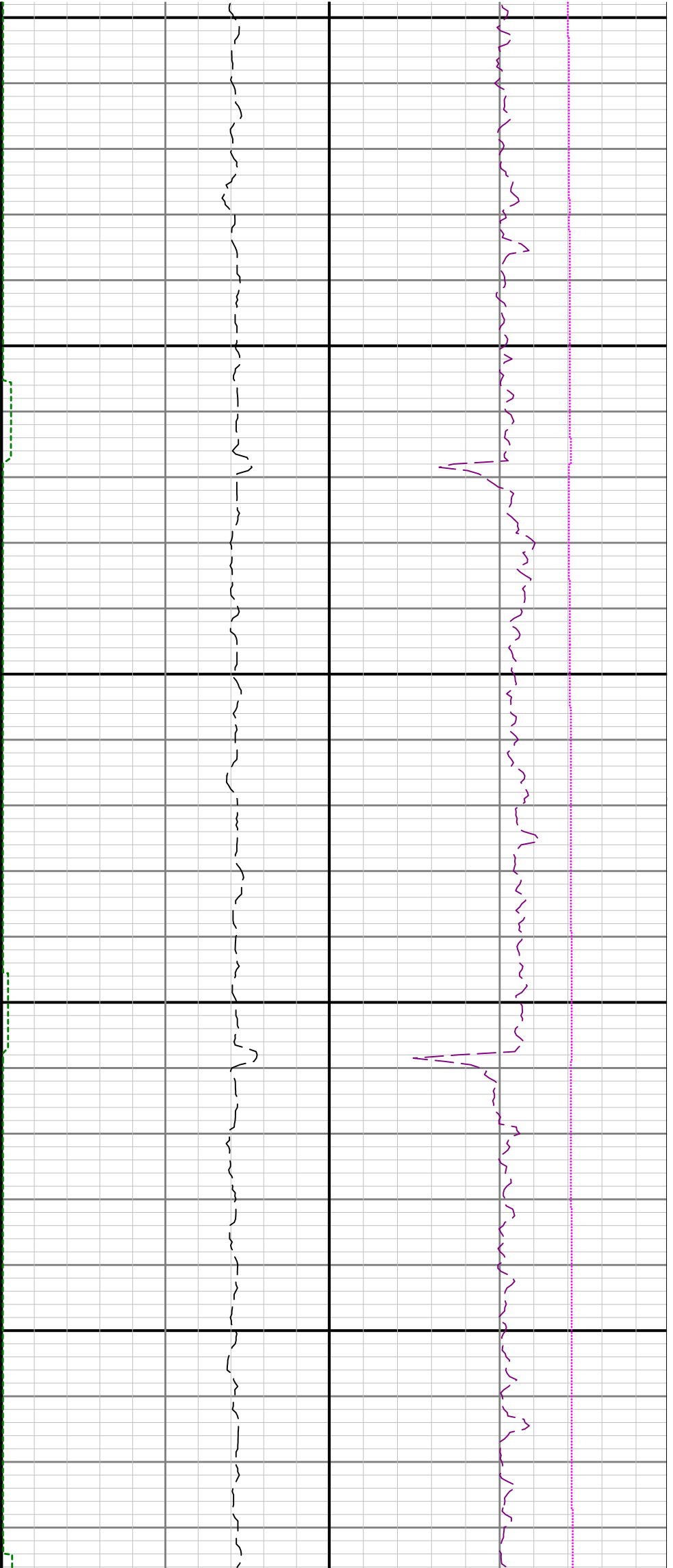




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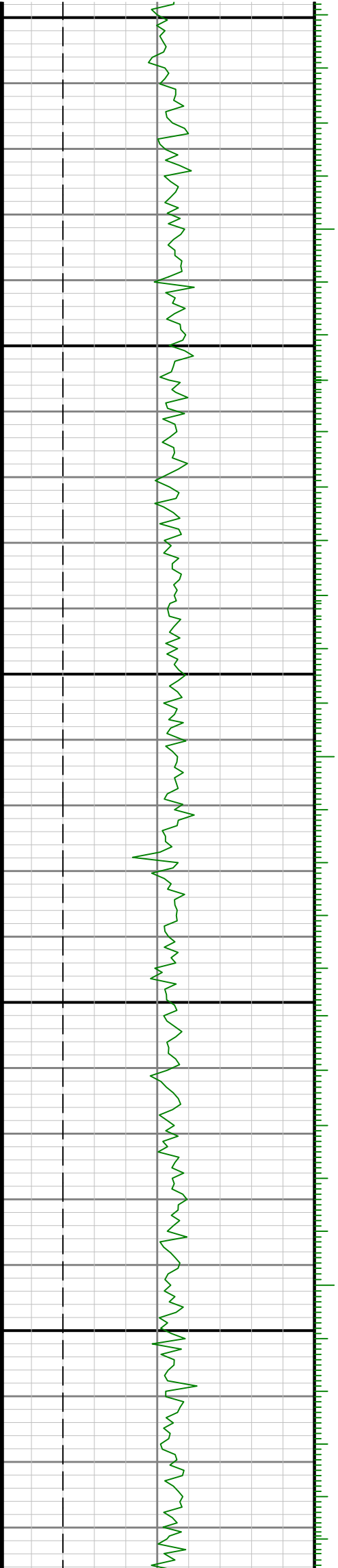
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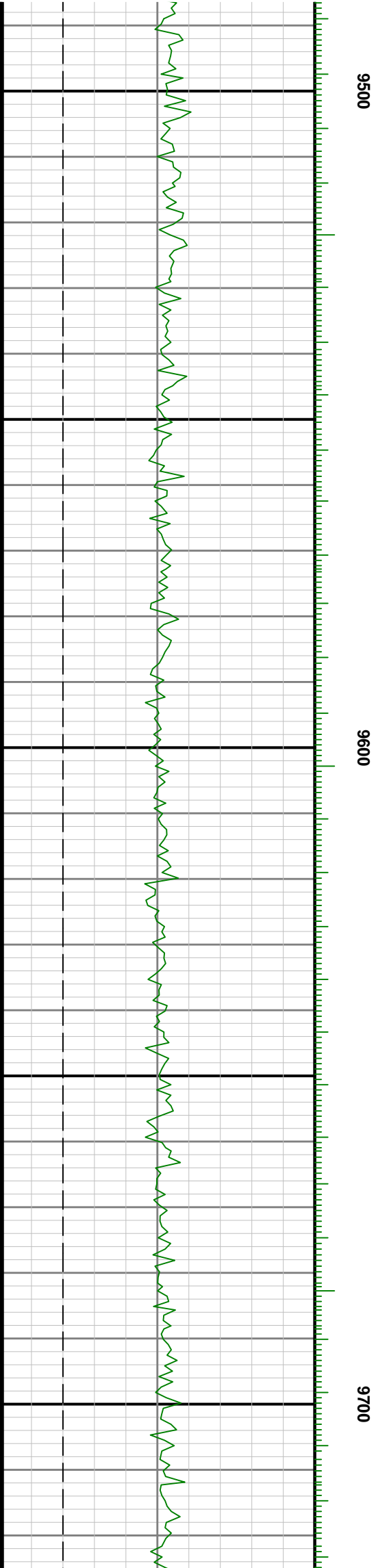
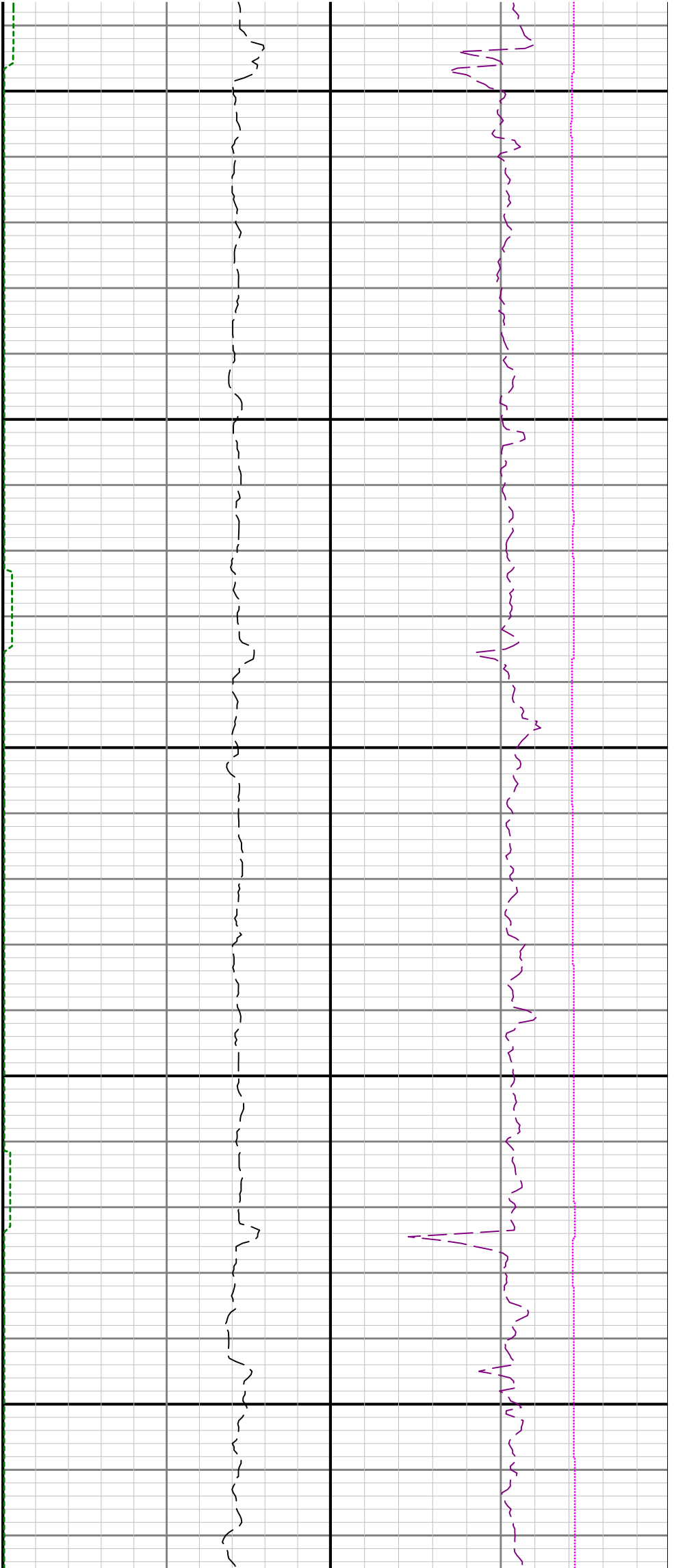


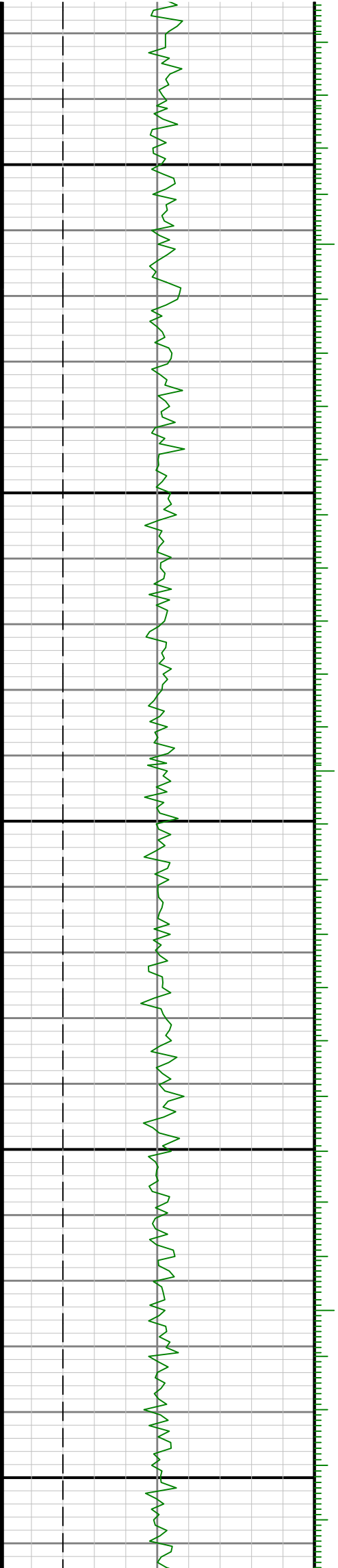


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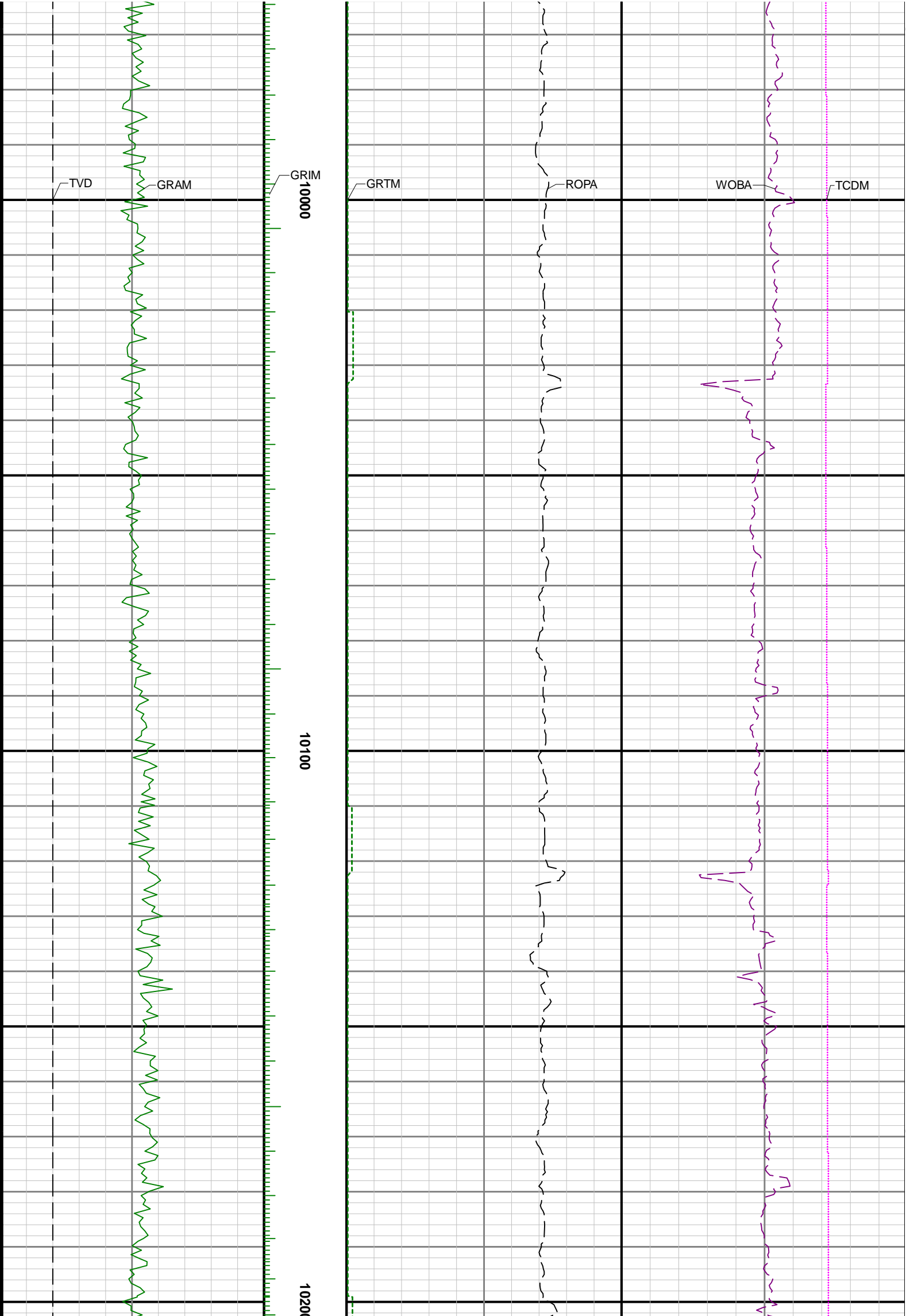




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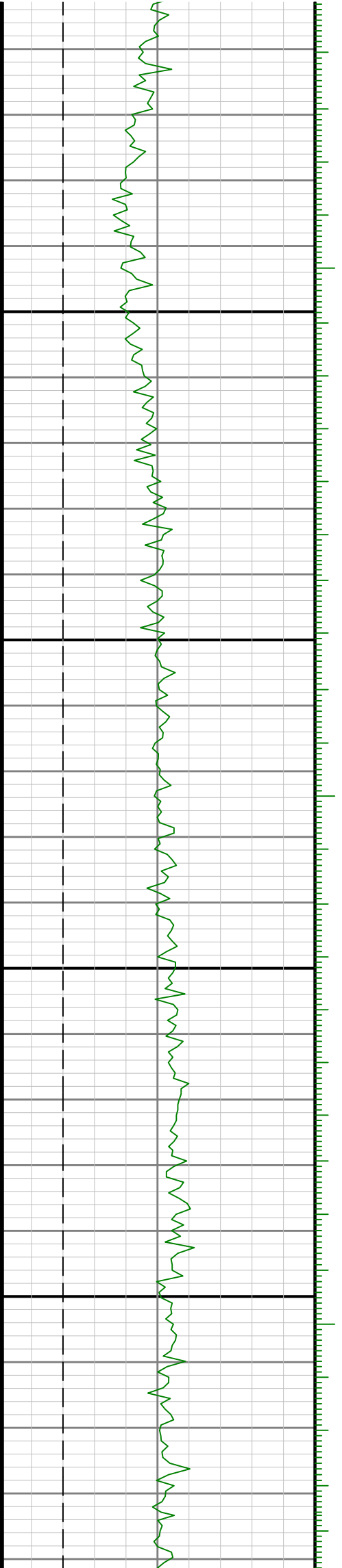


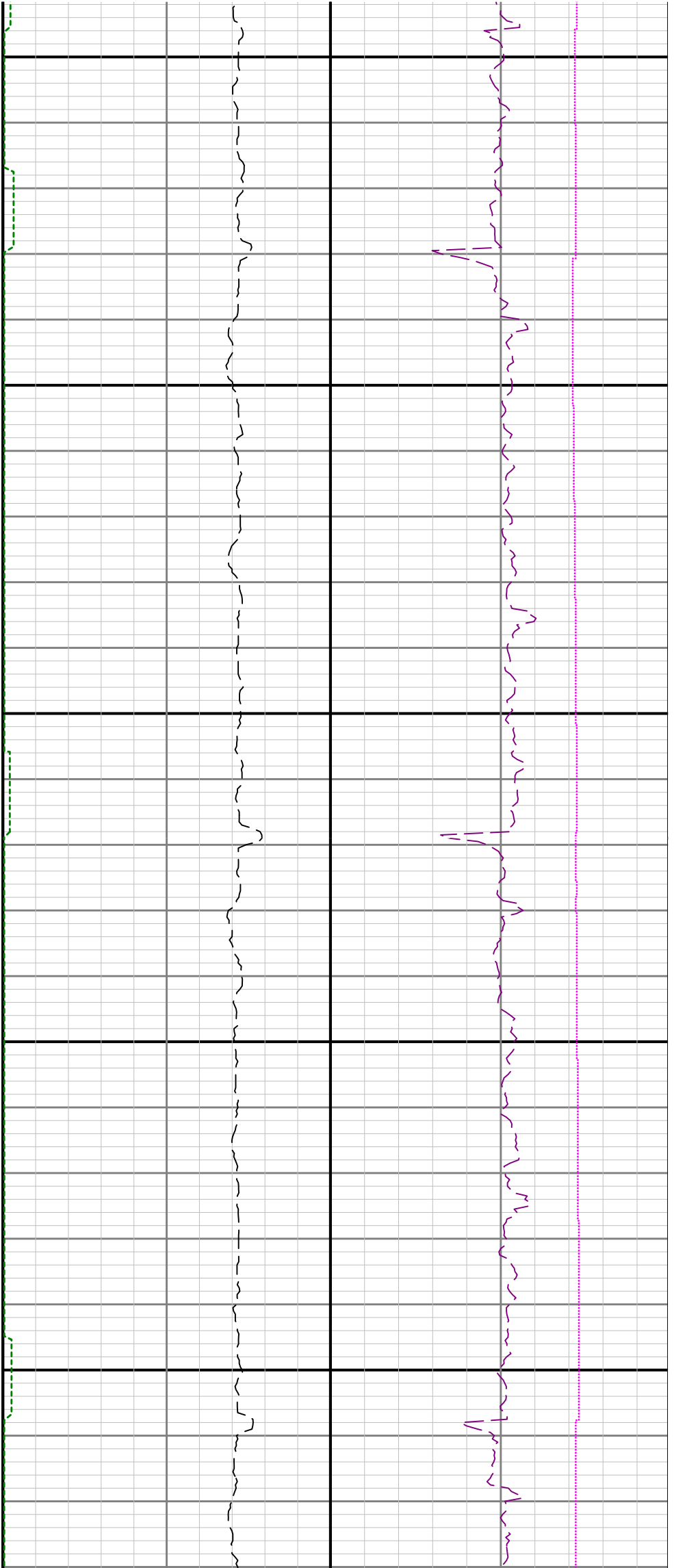




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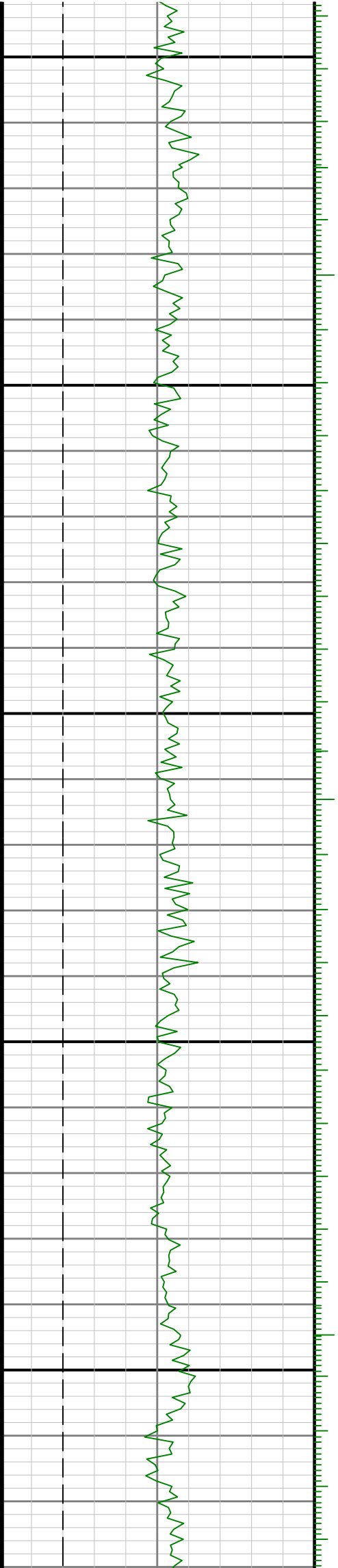
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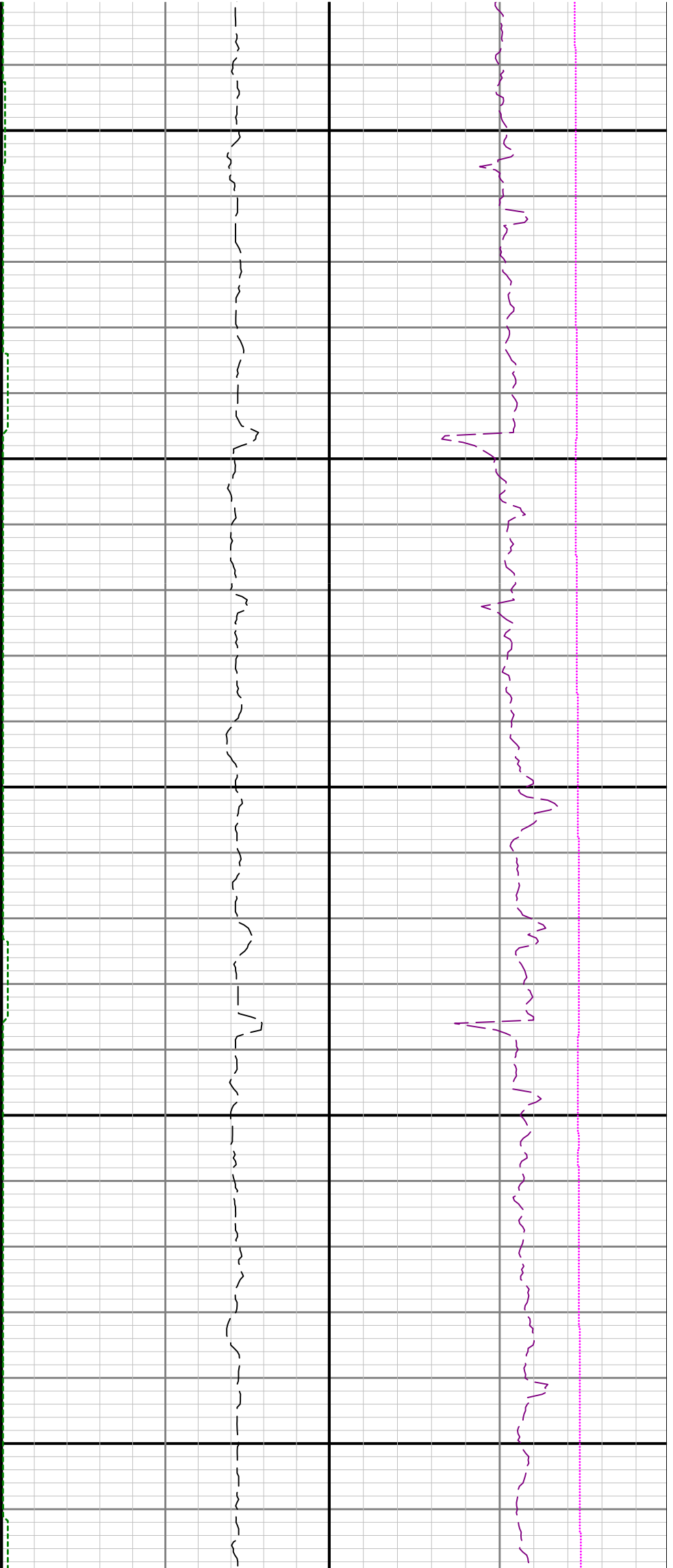




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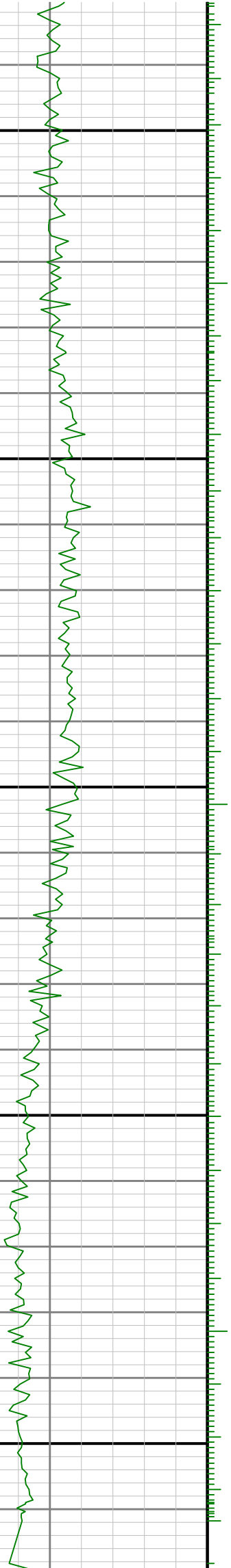


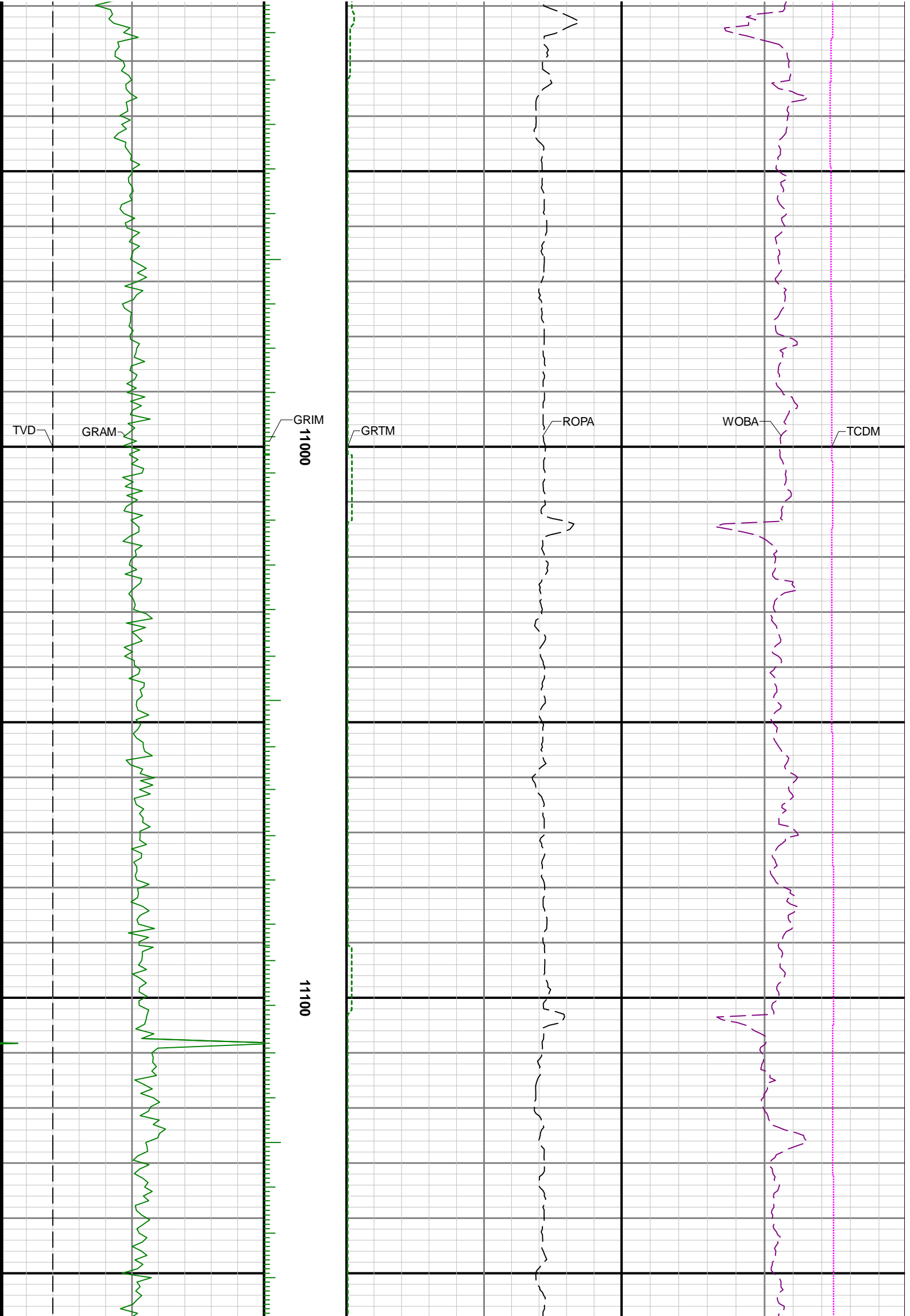


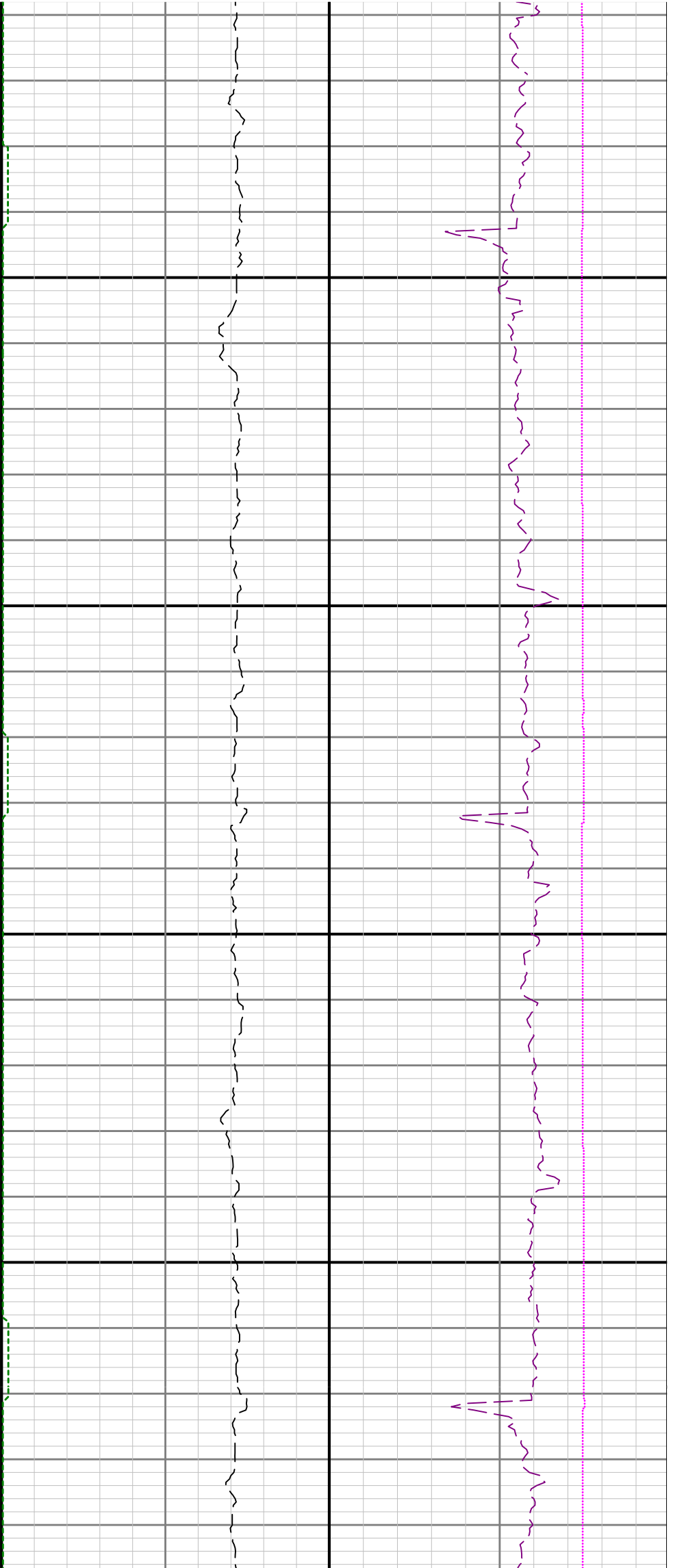
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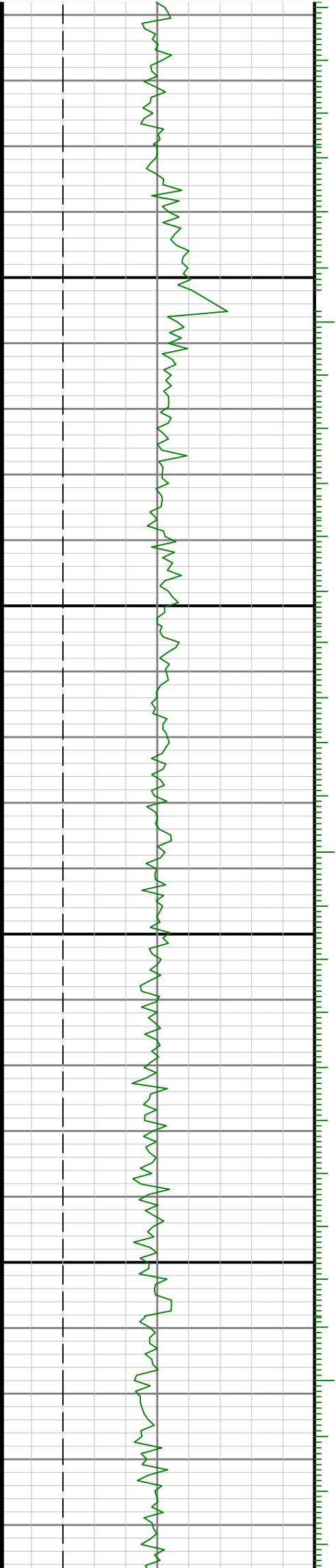


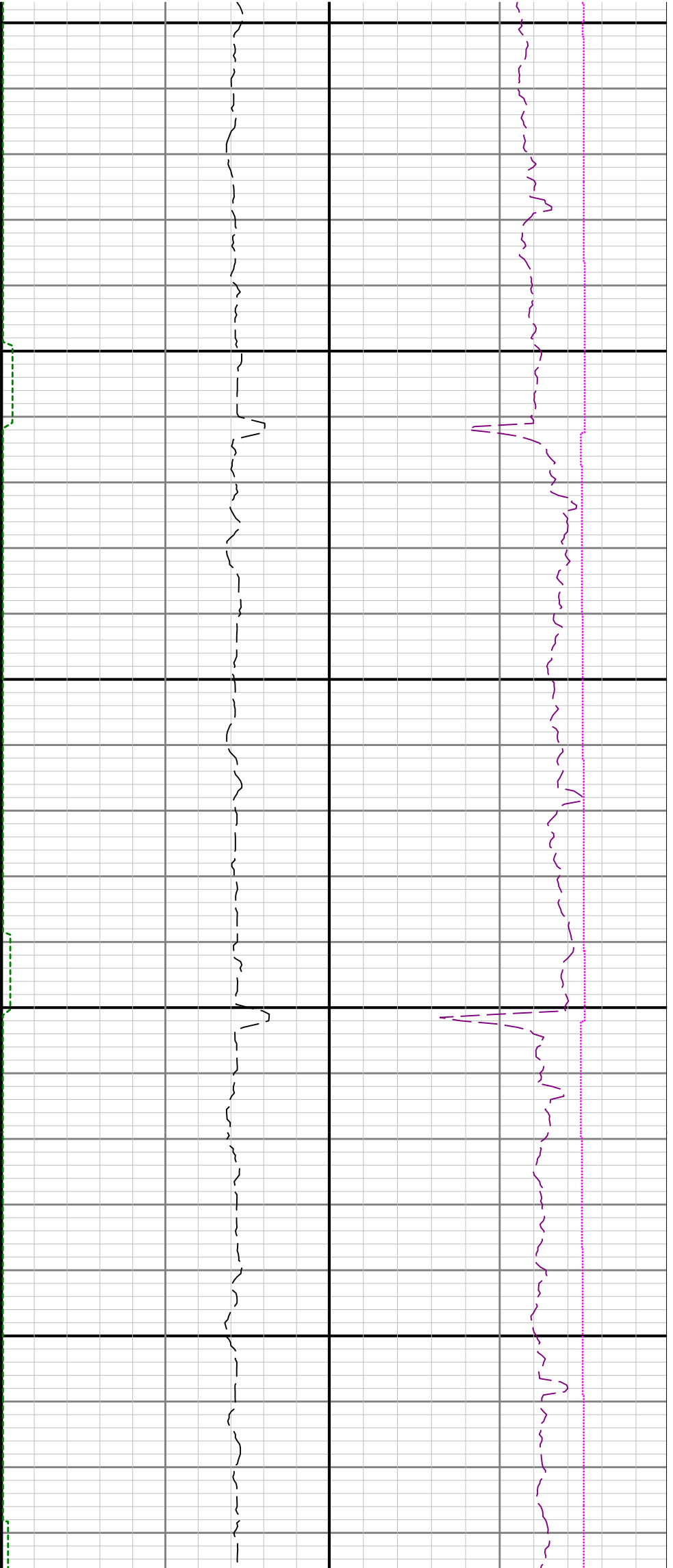




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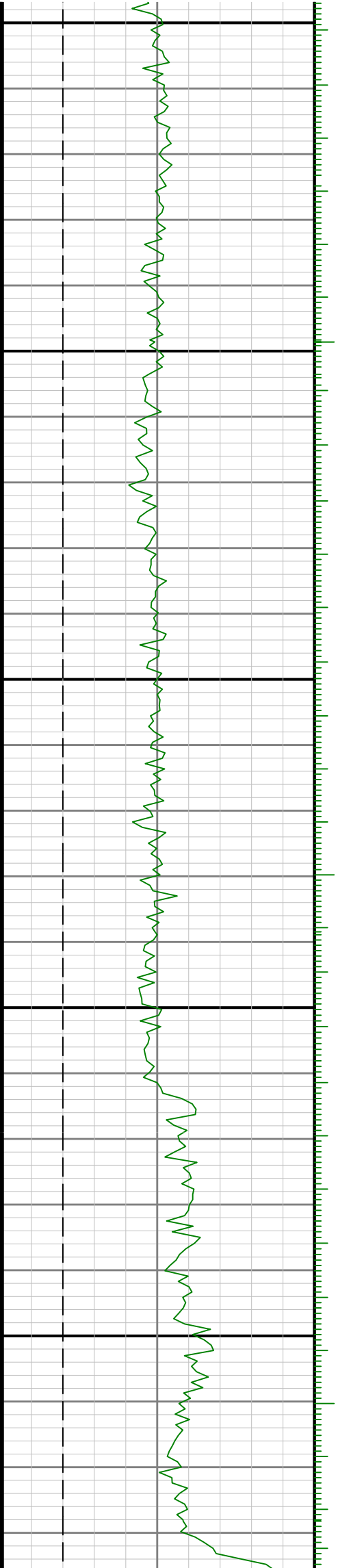


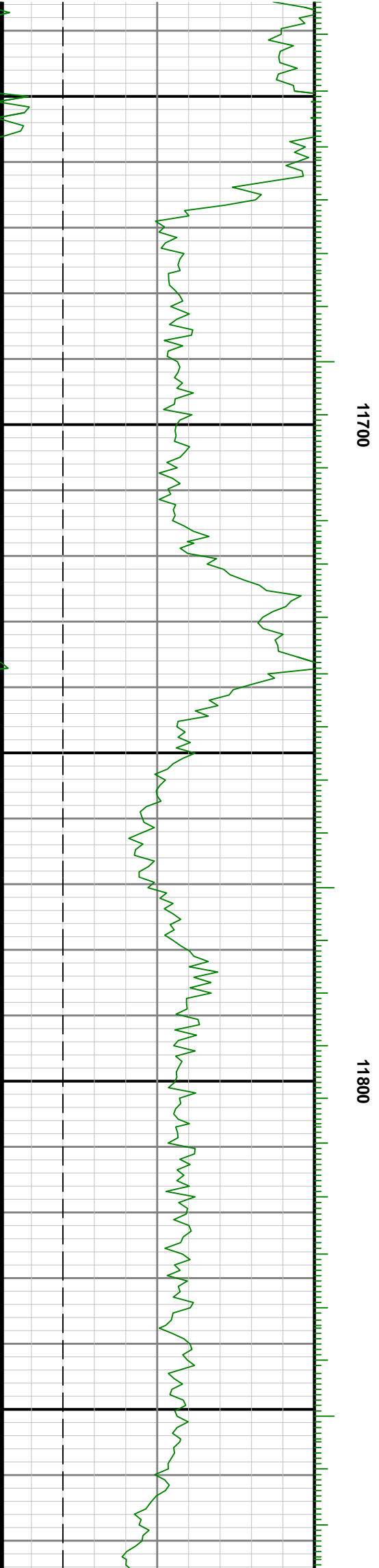
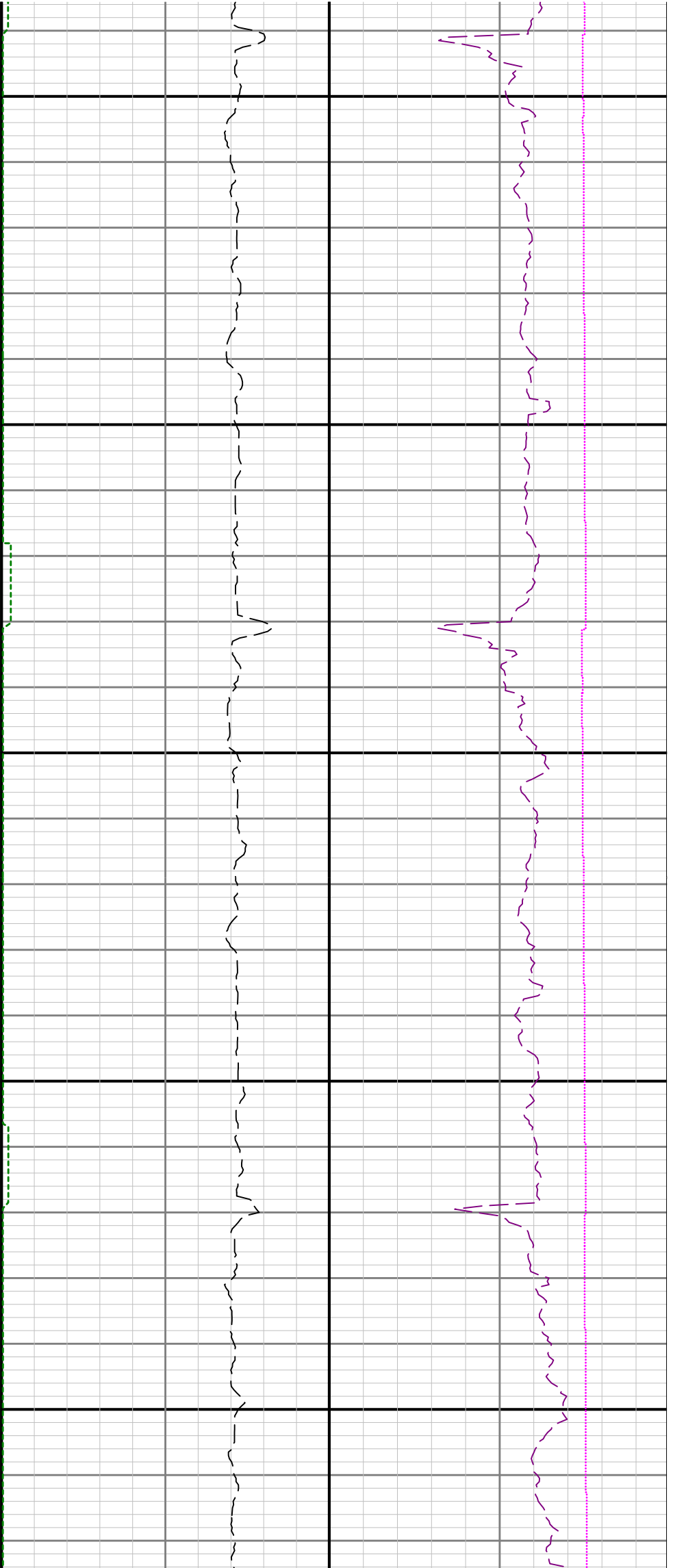


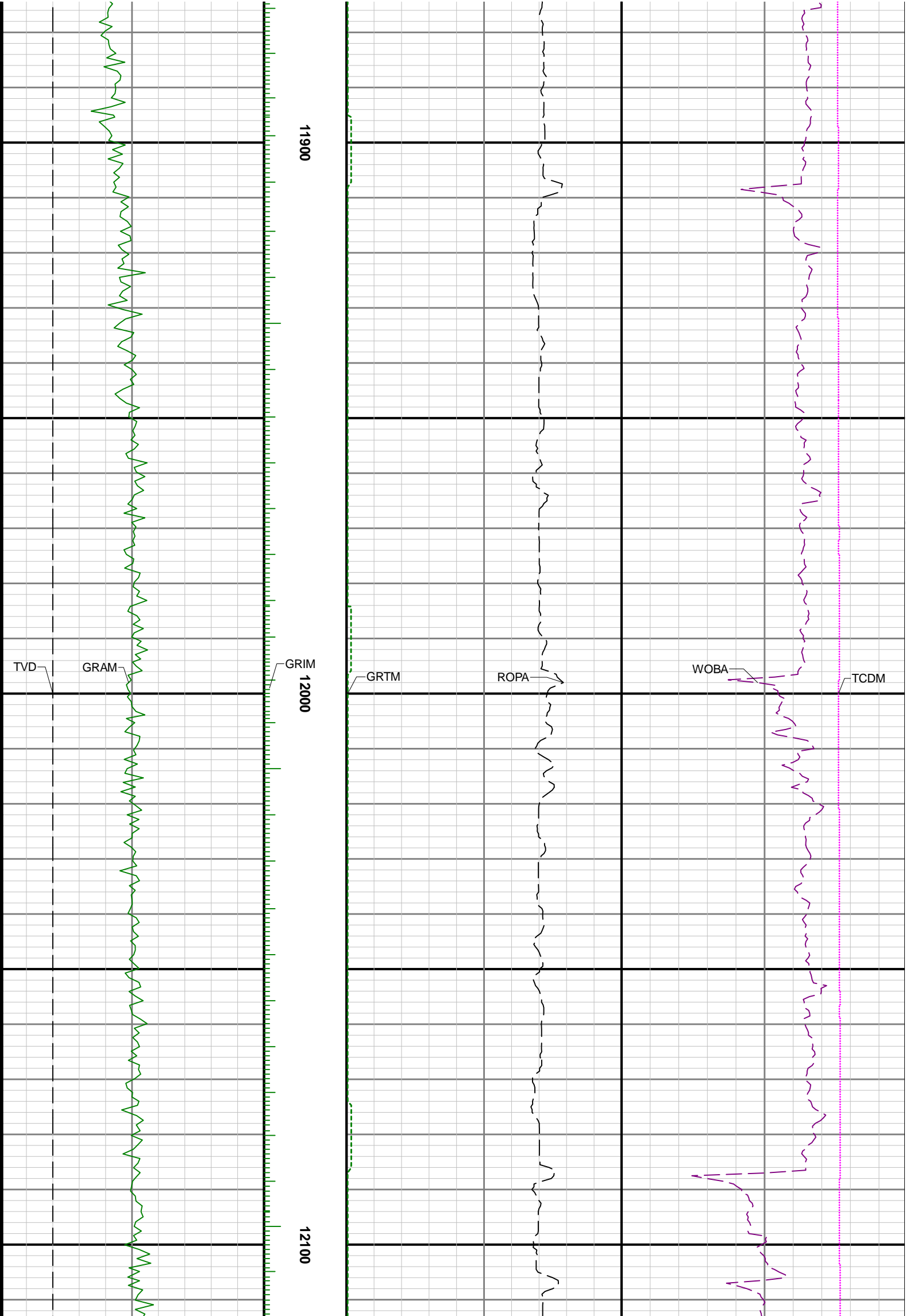
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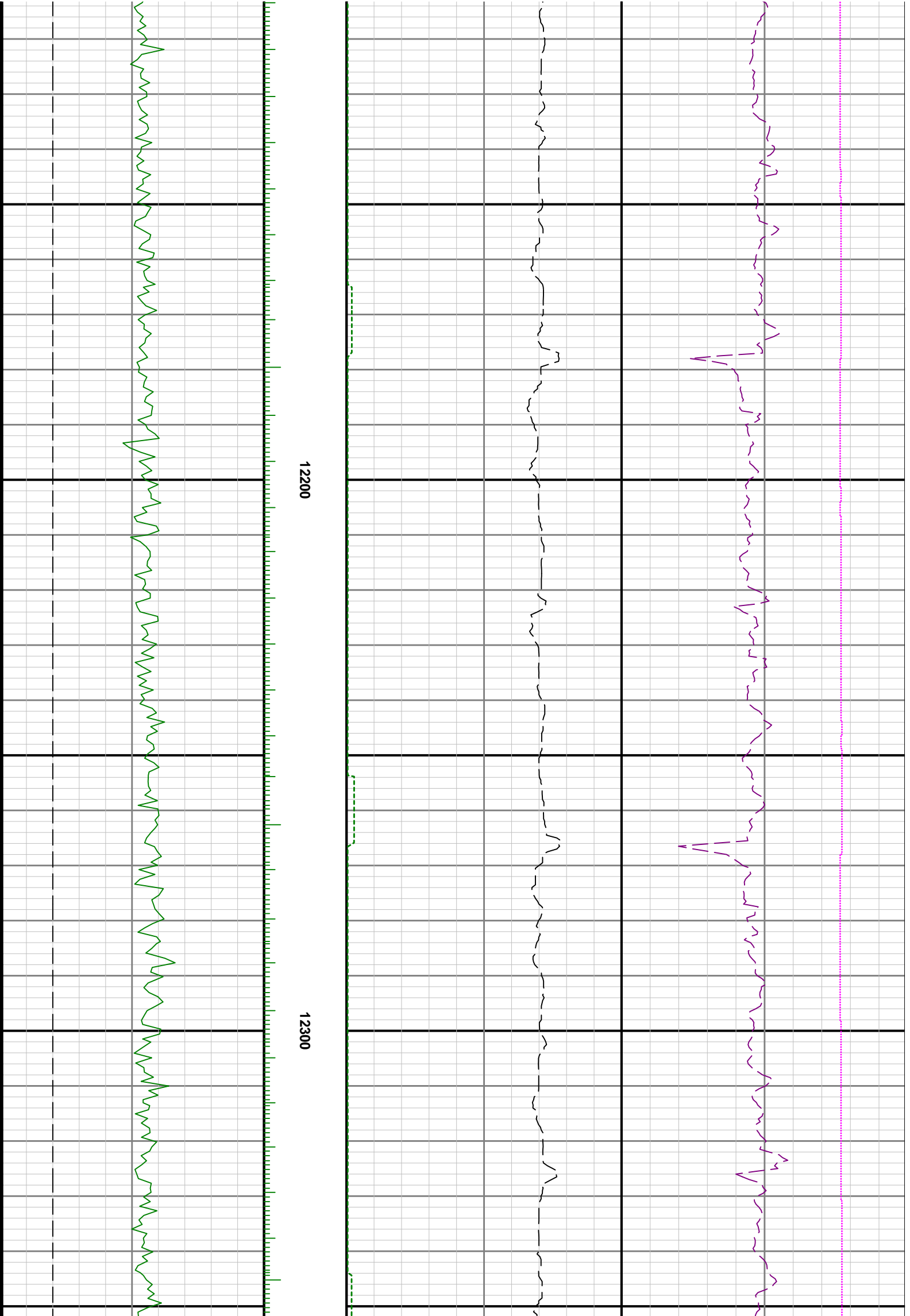
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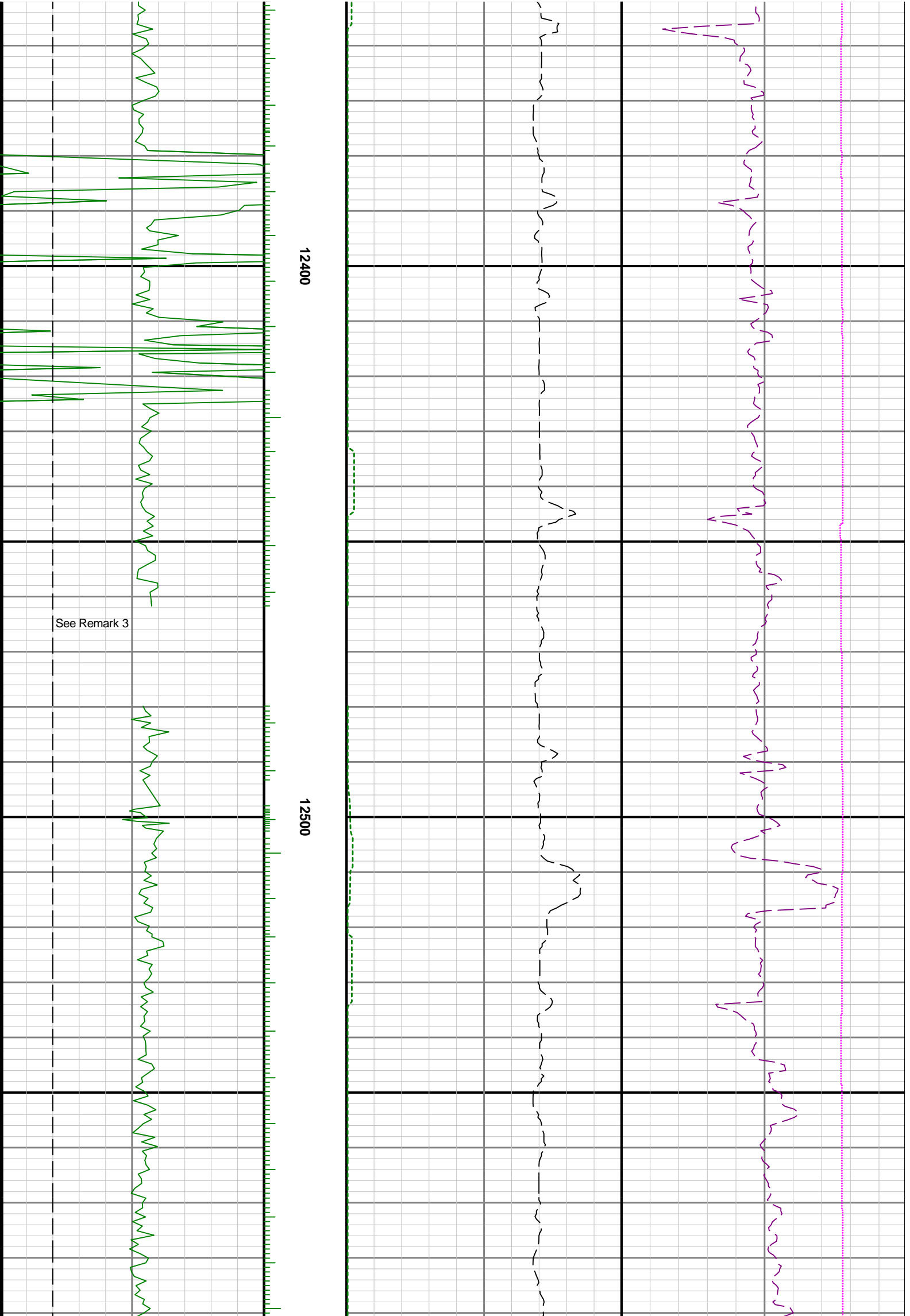
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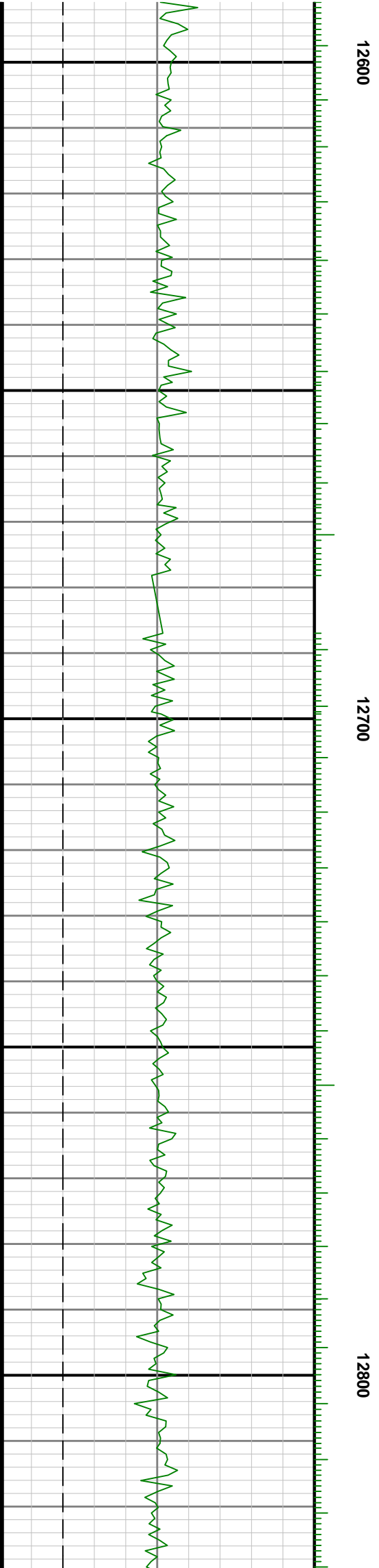
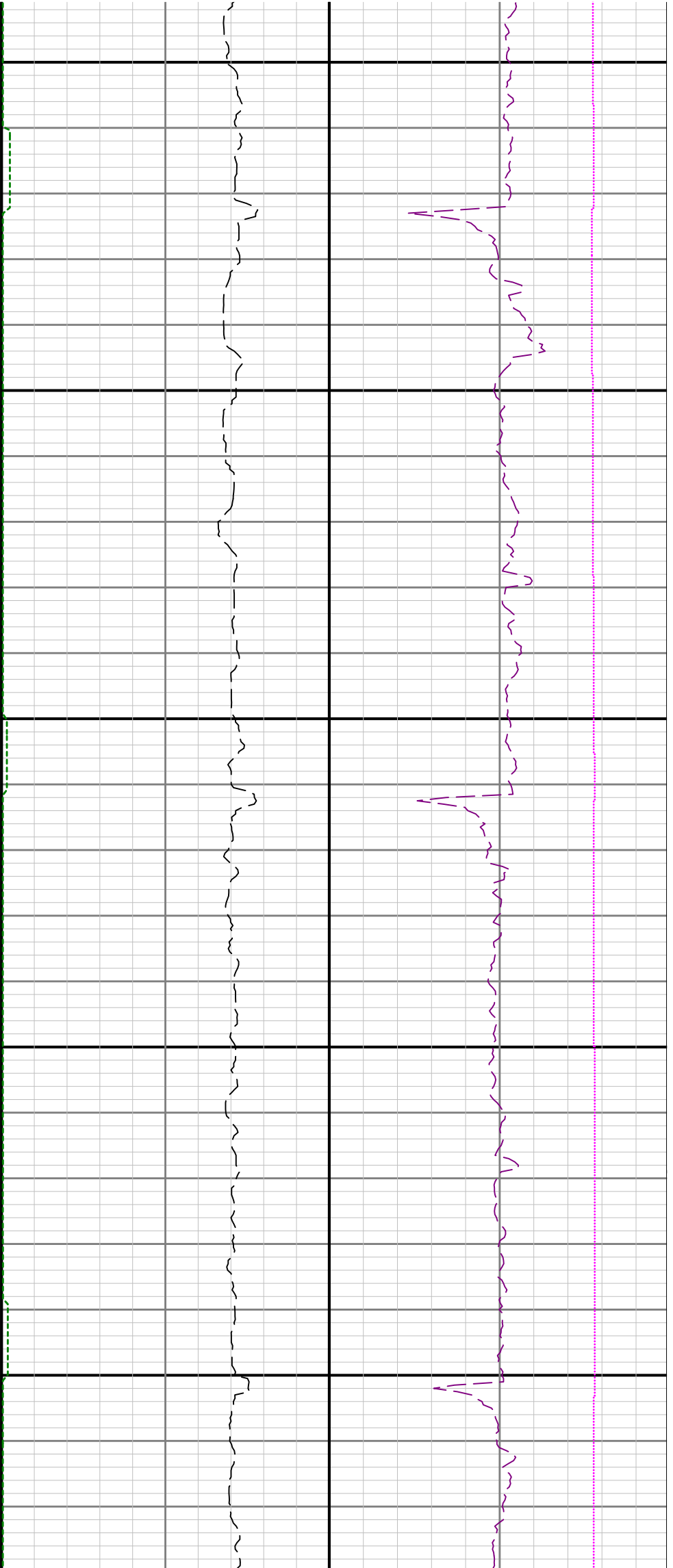


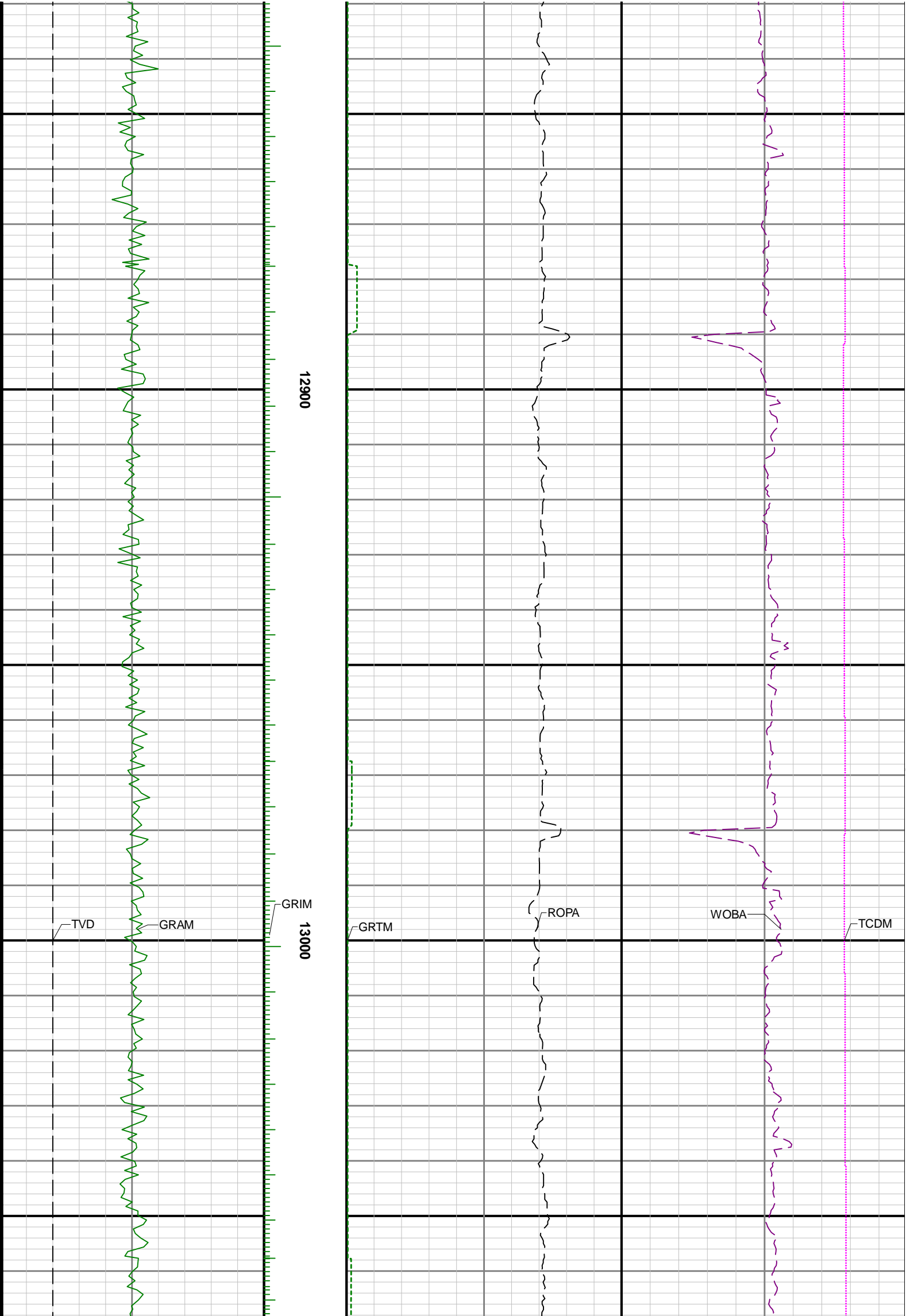


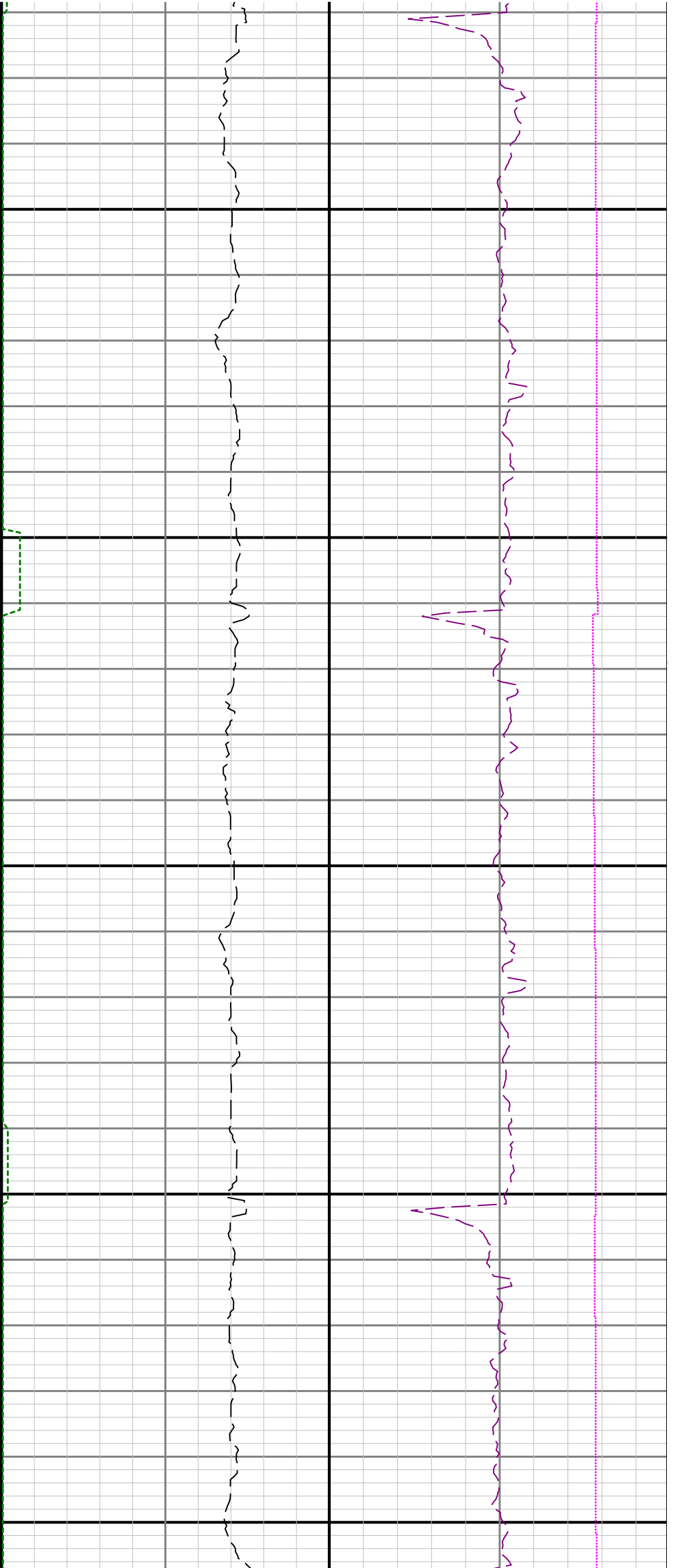








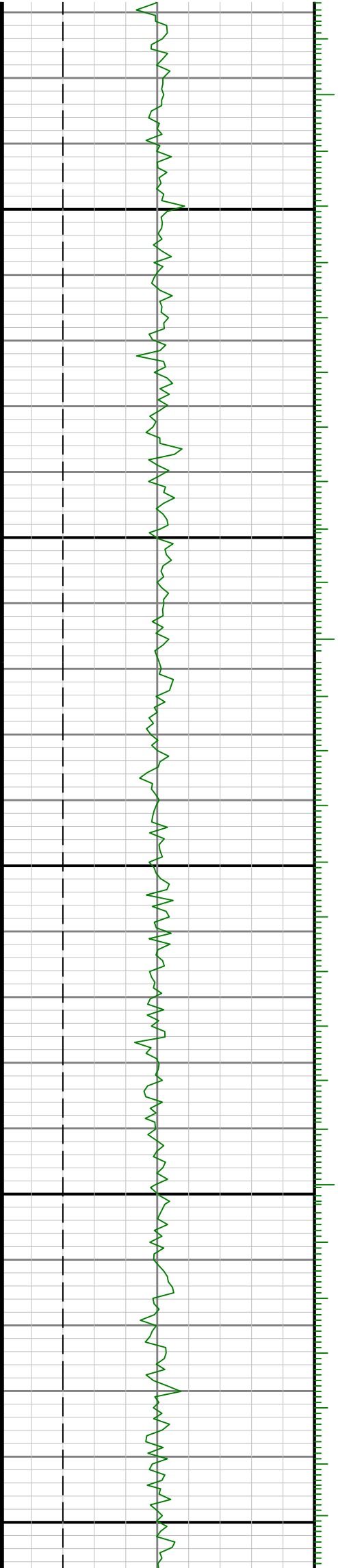




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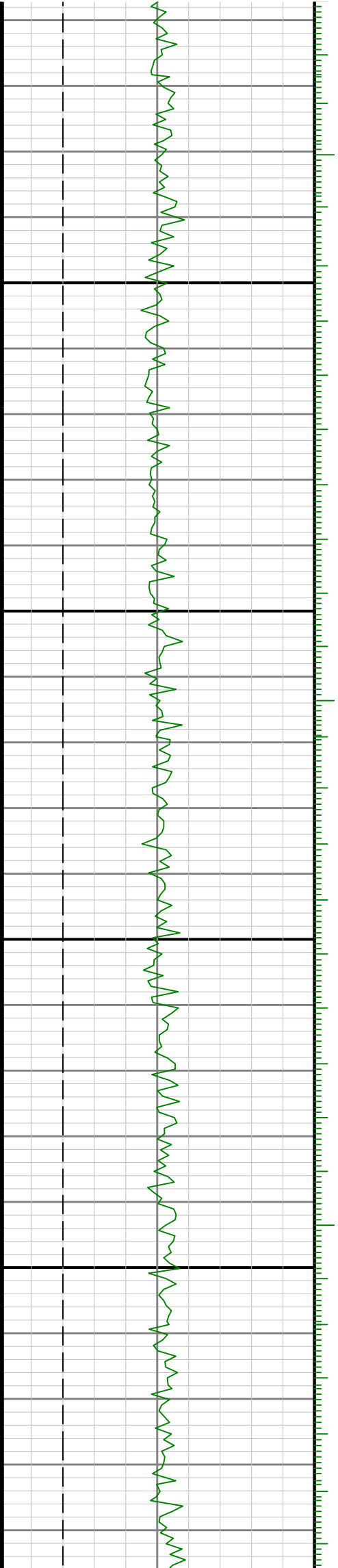
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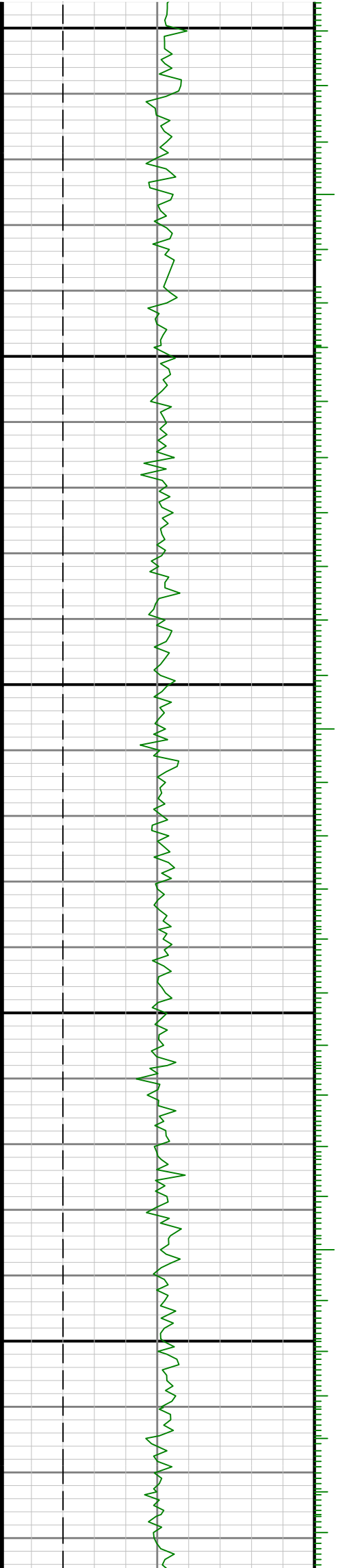
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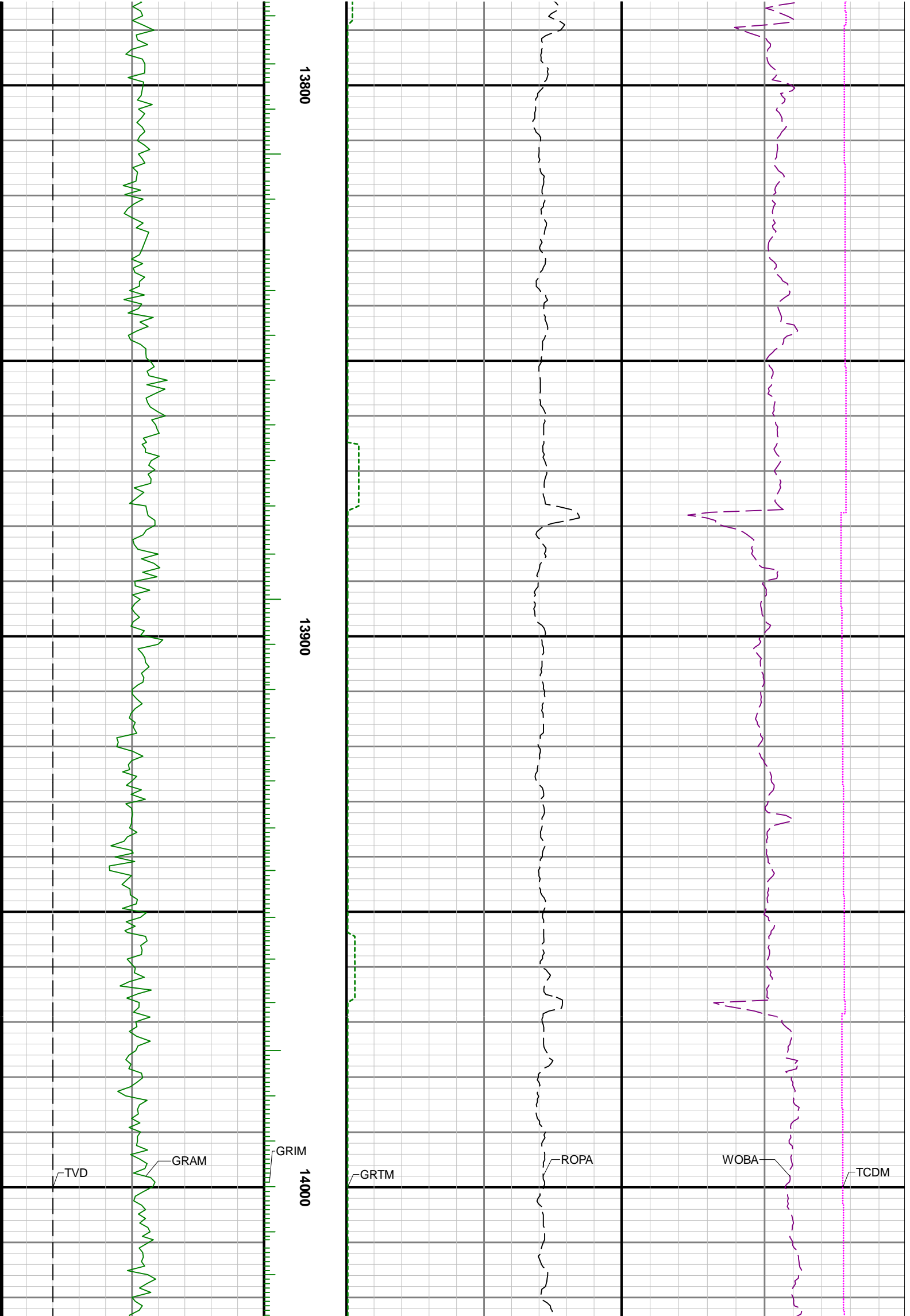


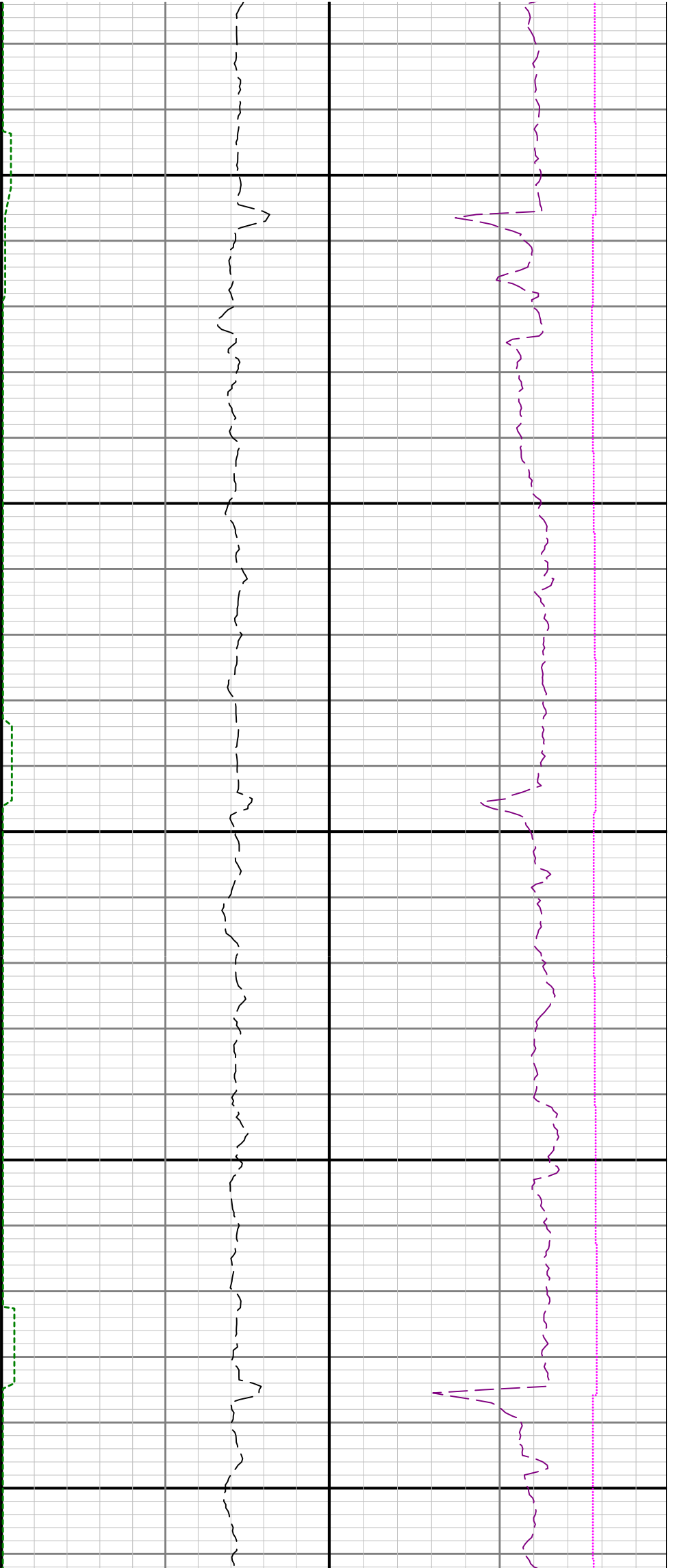


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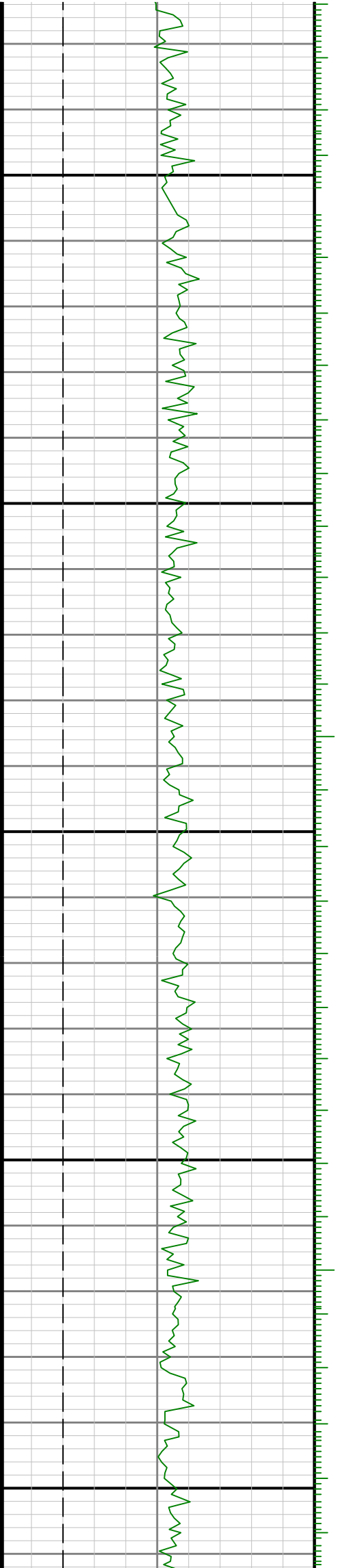


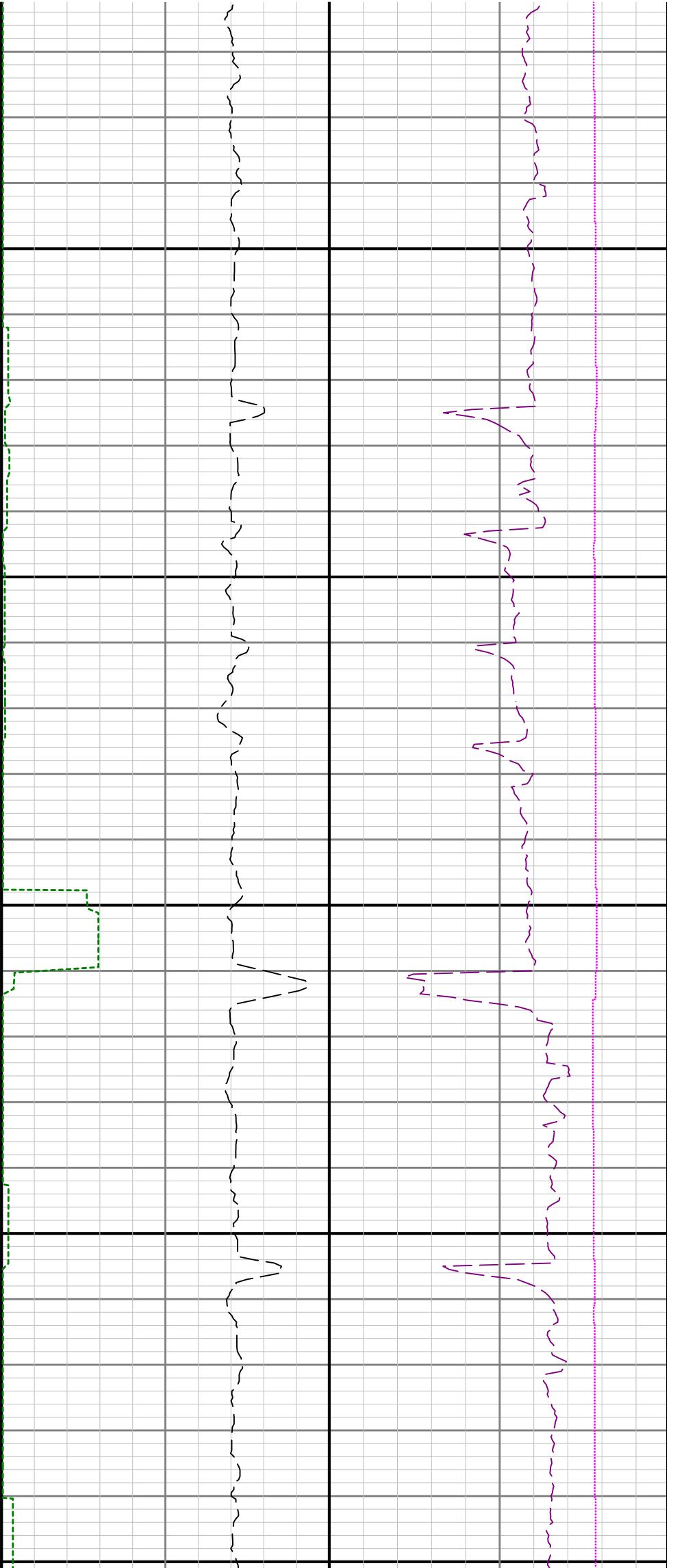




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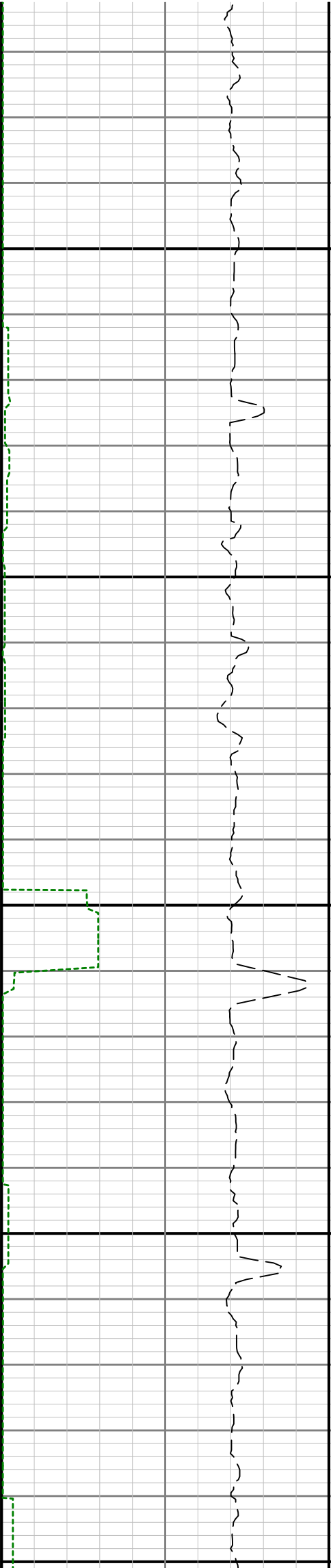


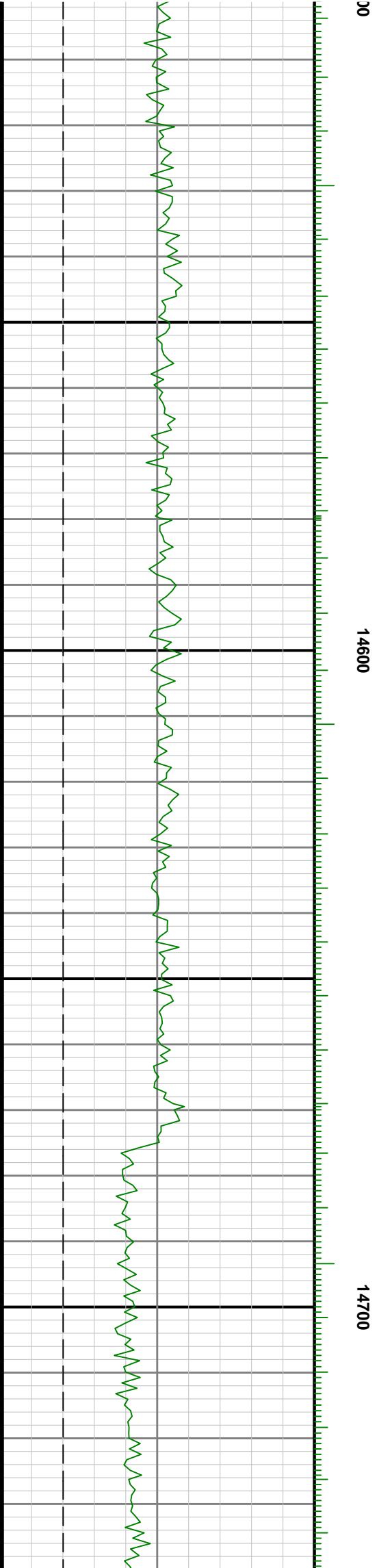
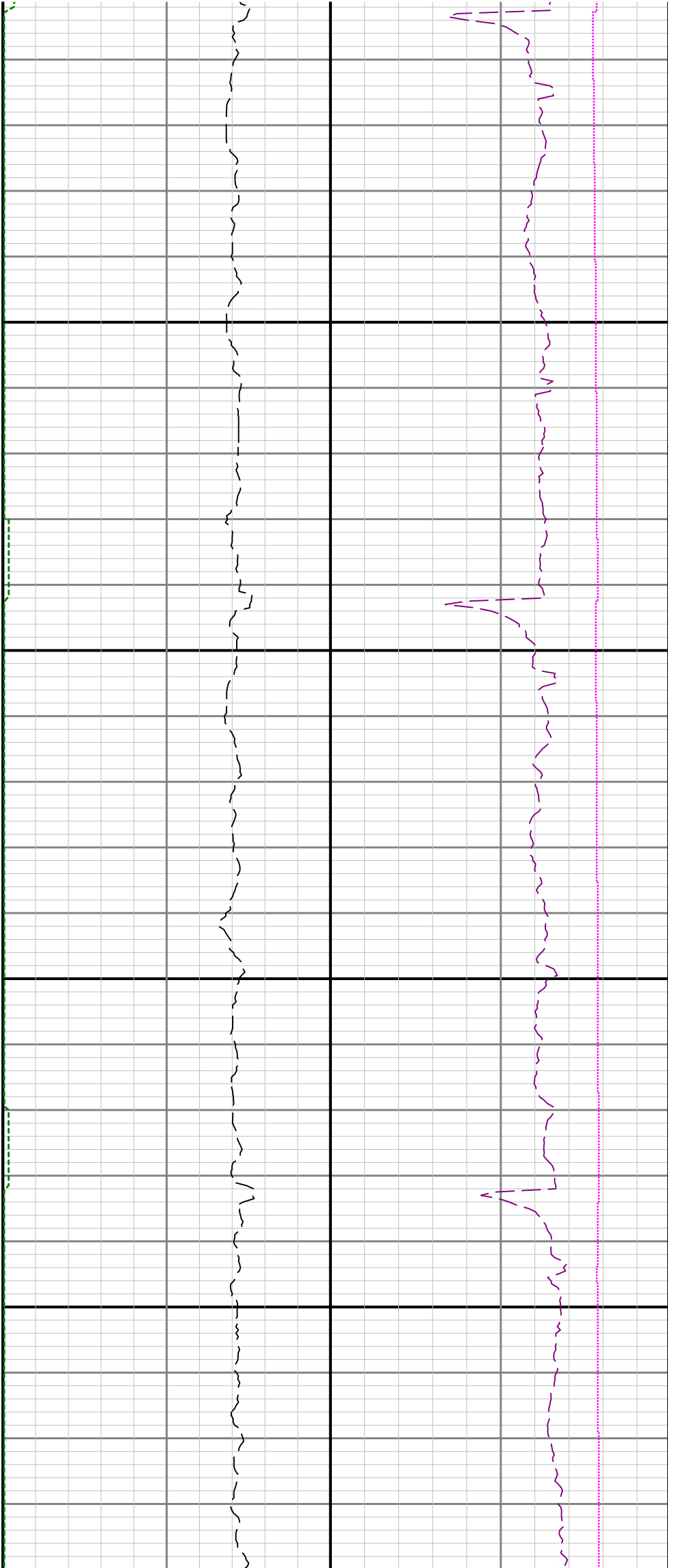


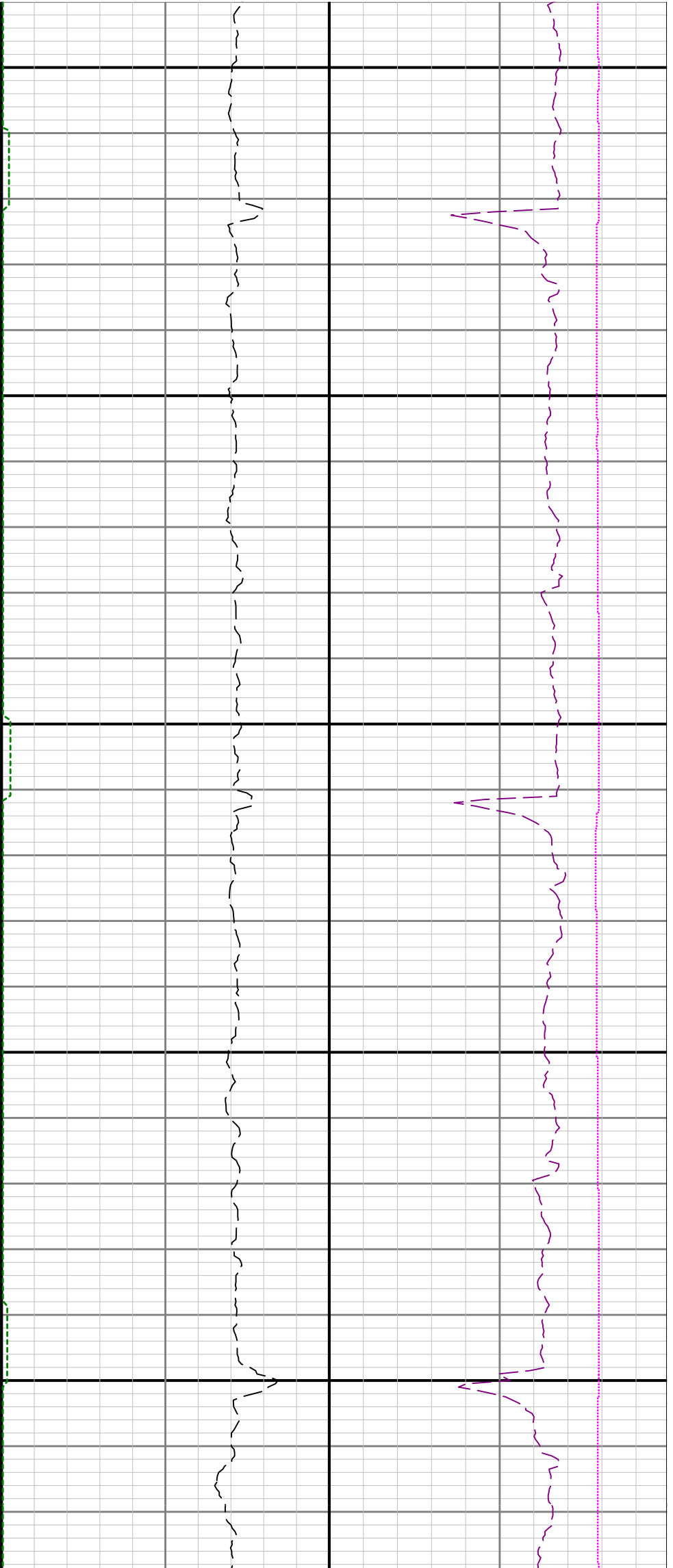
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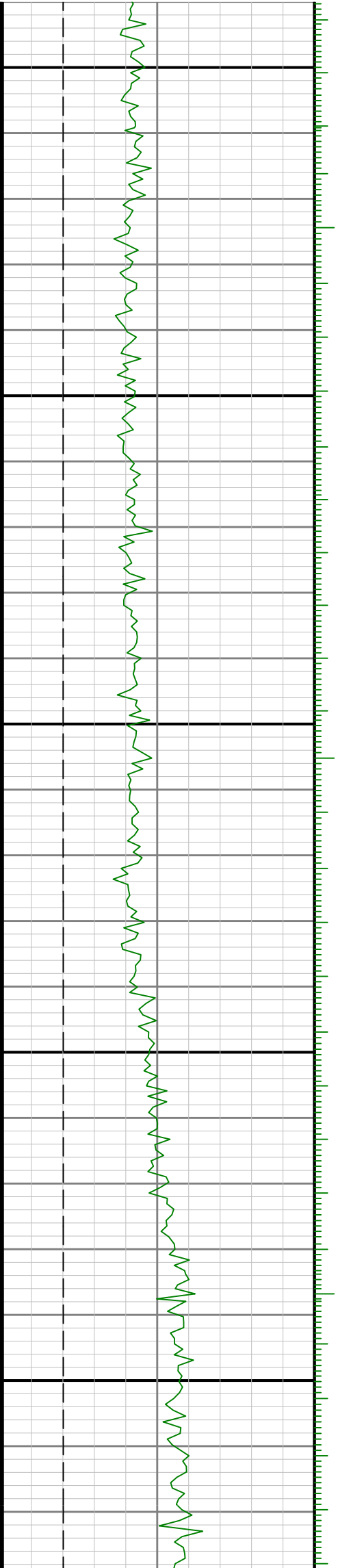


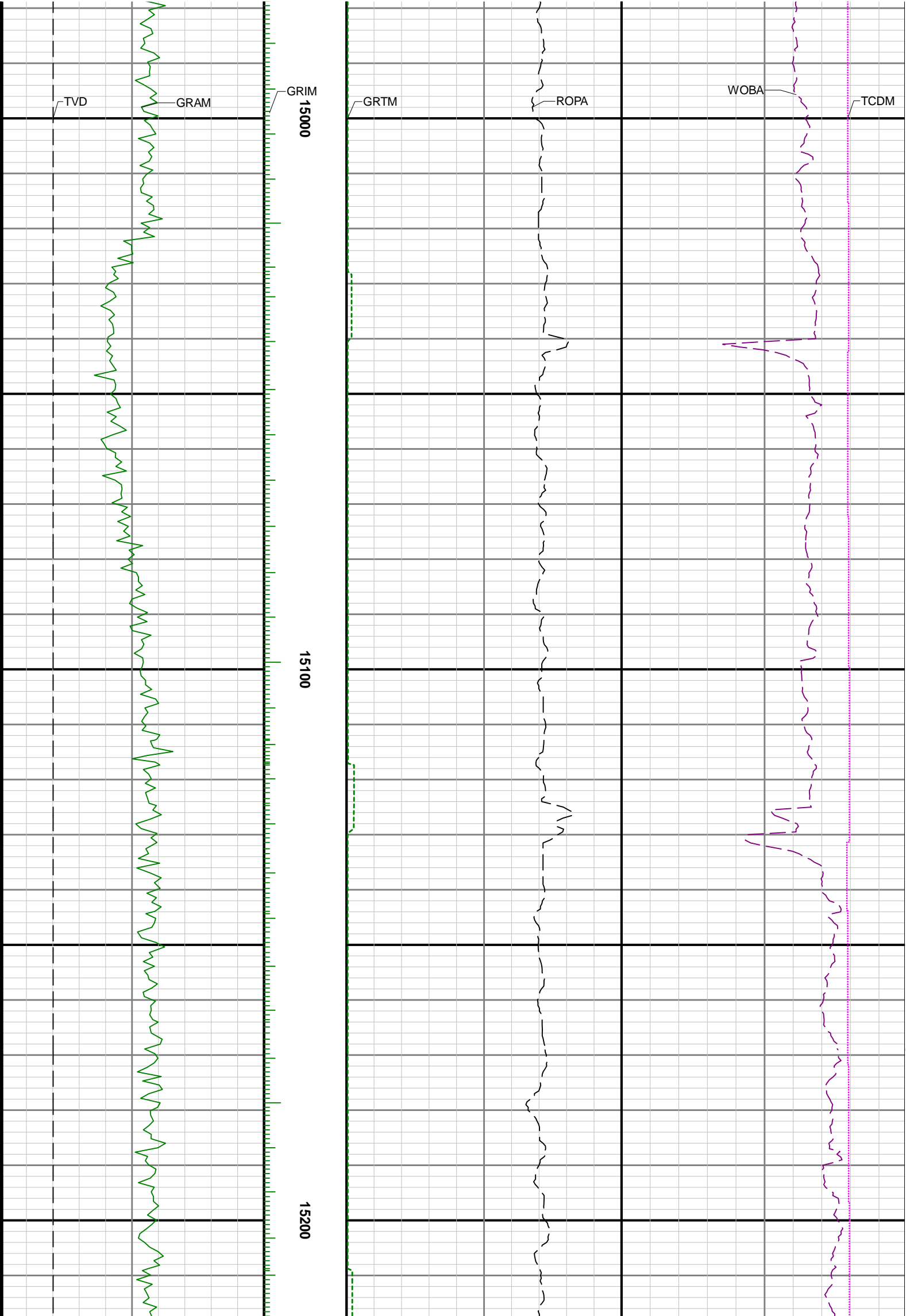


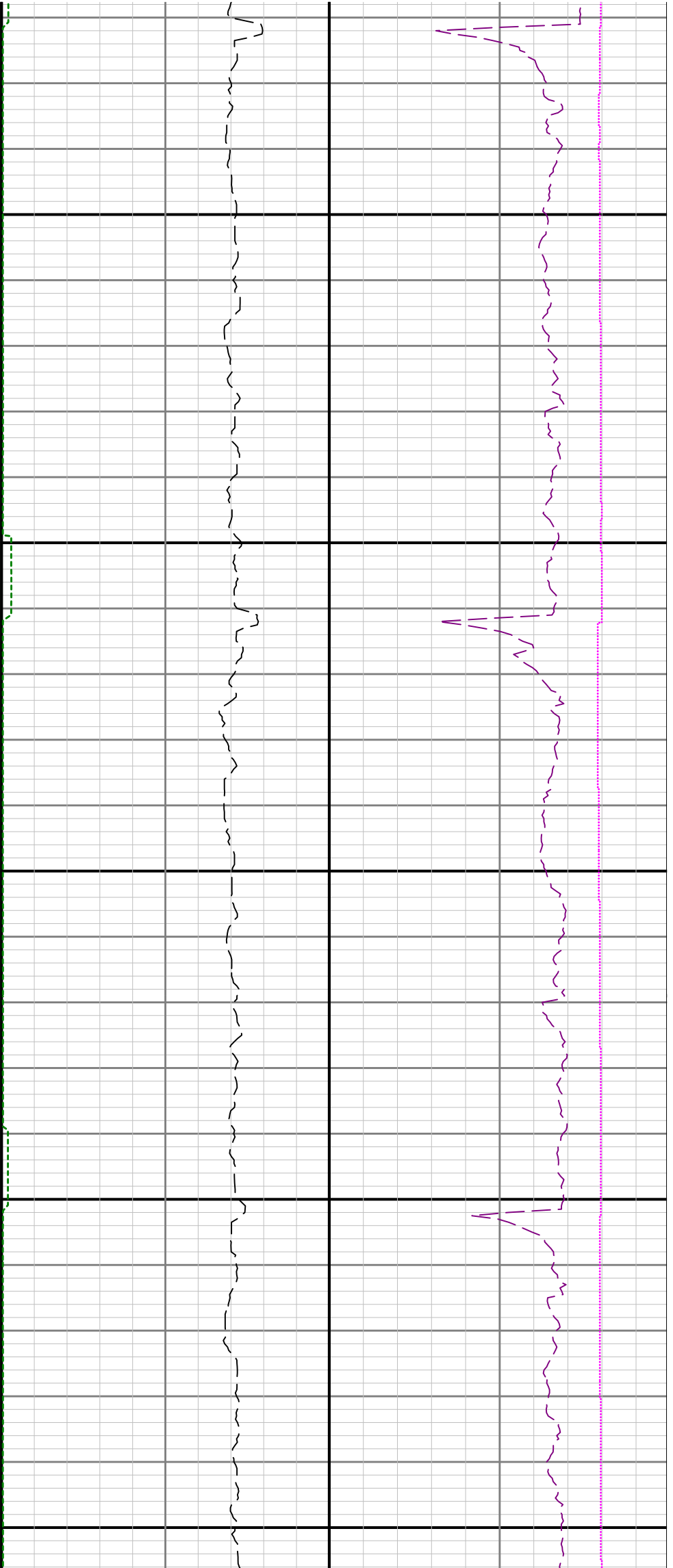


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14900

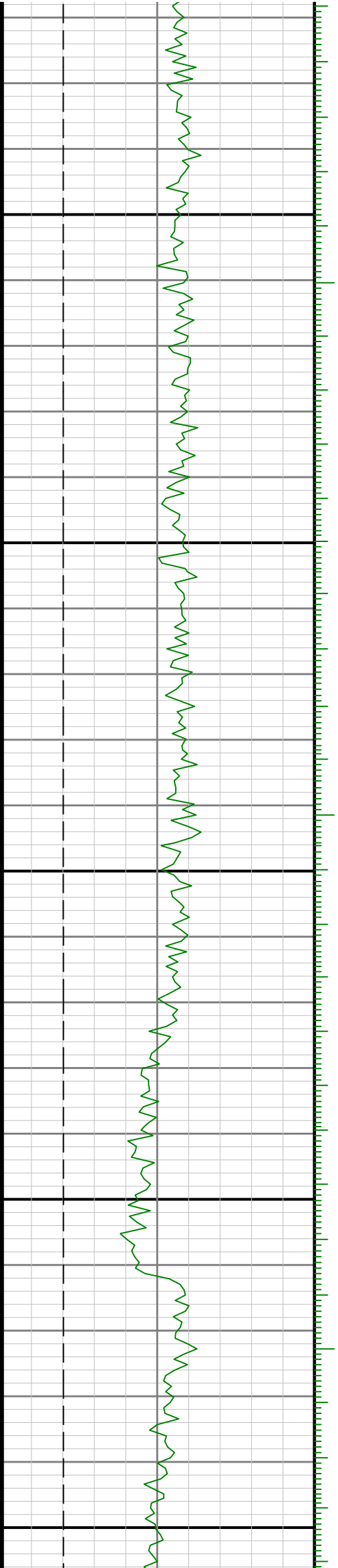


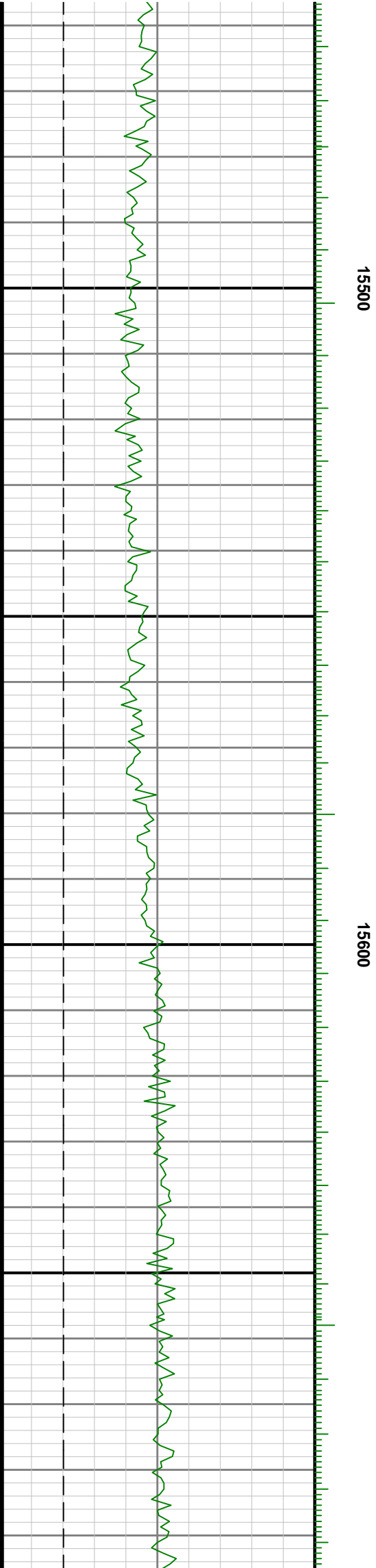
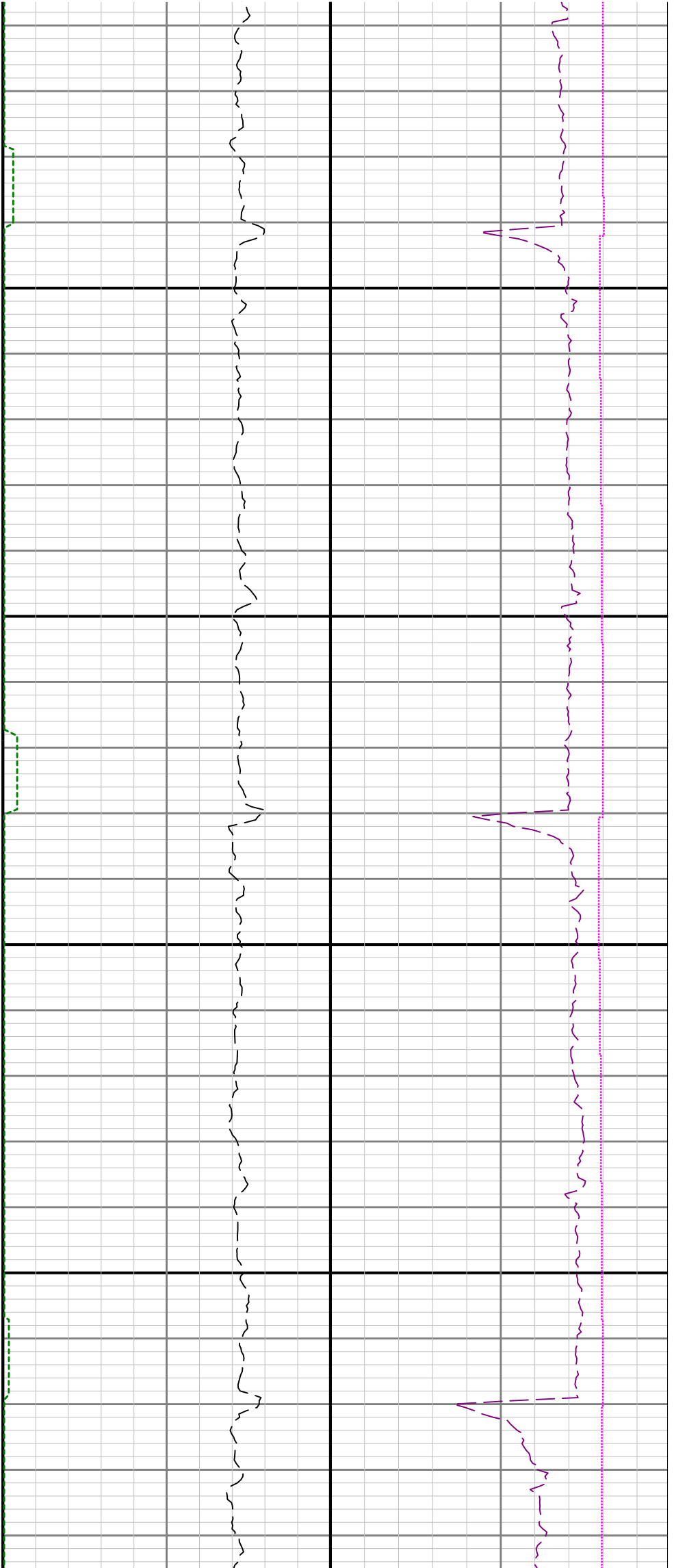


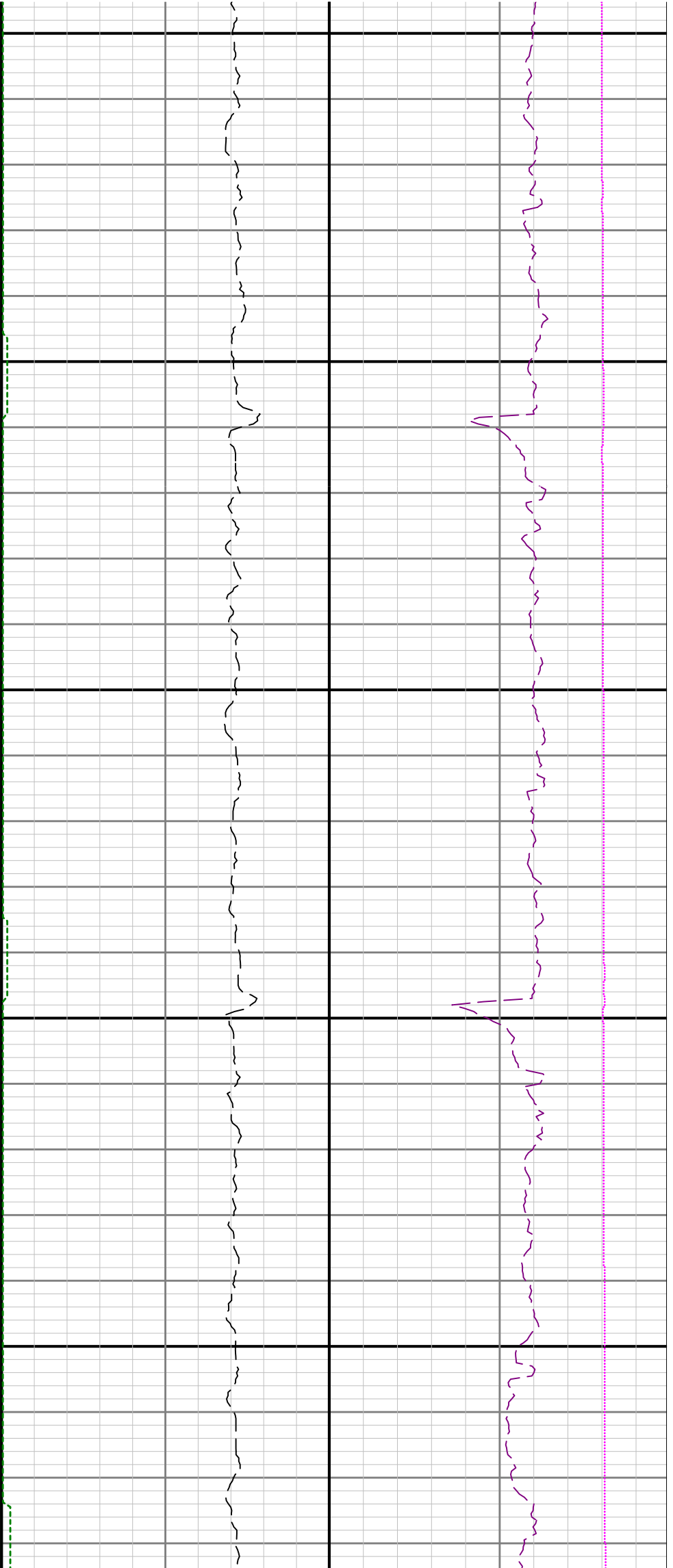


15300

15400







15700

15800

15900

