

1	AutoTrak Curve MWD	12603327	Directional (mag)	12.27	22.39	7.000	3.250
2	AutoTrak Curve Steering Unit	13993180	Near Bit VSS	5.93	6.73	7.000	4.330
2	AutoTrak Curve Steering Unit	13993180	Near Bit Inclination	5.93	6.73	7.000	4.330
2	AutoTrak Curve MWD	12109322	Gamma (single)	2.77	12.90	7.000	3.250
2	AutoTrak Curve MWD	12109322	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

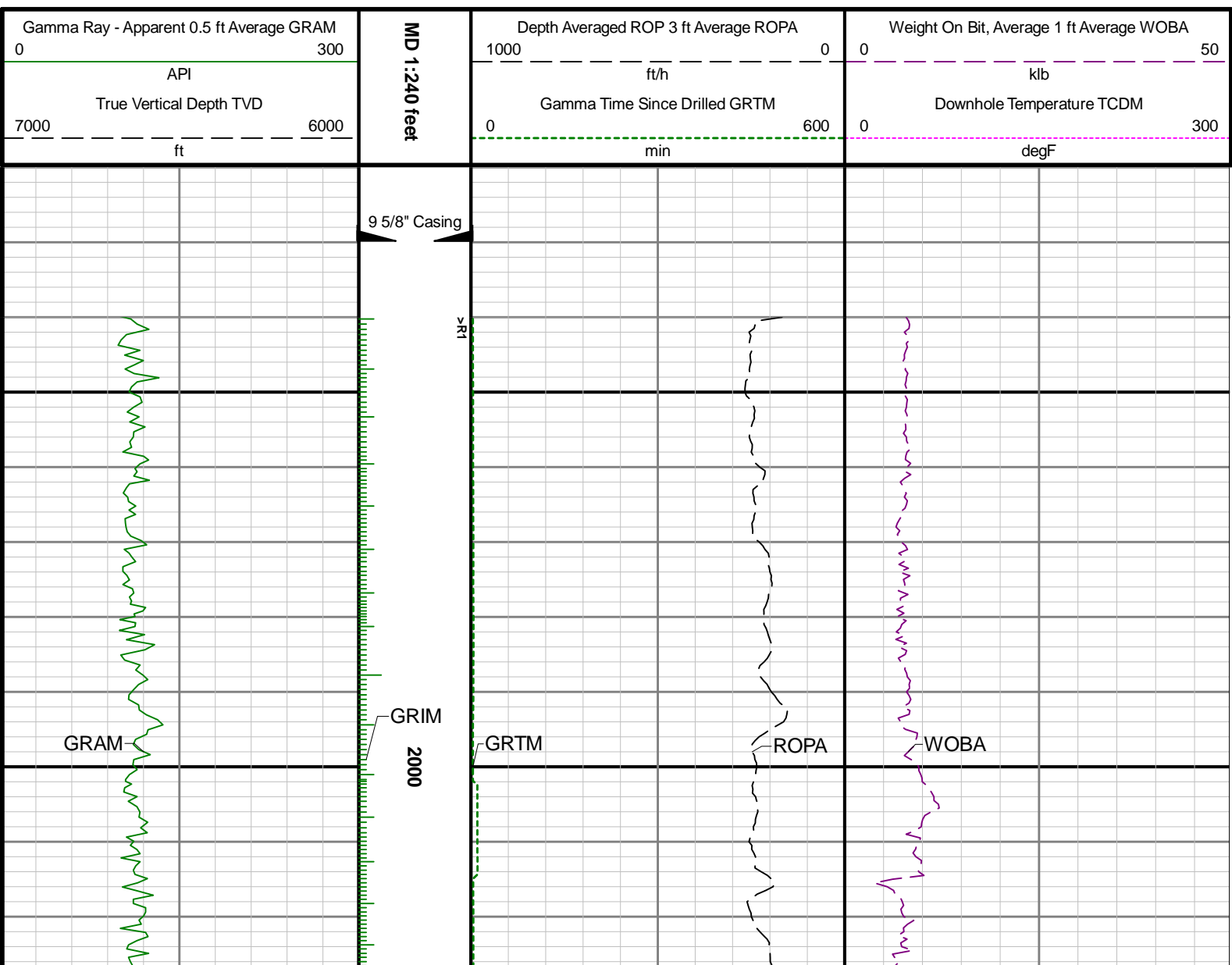
1	Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes, depth calibrations and measurements could not be independently verified.
2	Baker Hughes LWD runs 1 and 2 utilized a 6.75 inch NaviGamma service (Directional and Gamma Ray) behind a 8.5 inch bit and rotary steerable assembly from 1940 to 17630 feet MD (1940 to 6837 feet TVD).
3	The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request.
4	The interval from 1940 to 11374 feet MD (1940 to 6837 feet TVD) does not have contain downhole temperature data, due to the memory module not recording the readings properly.

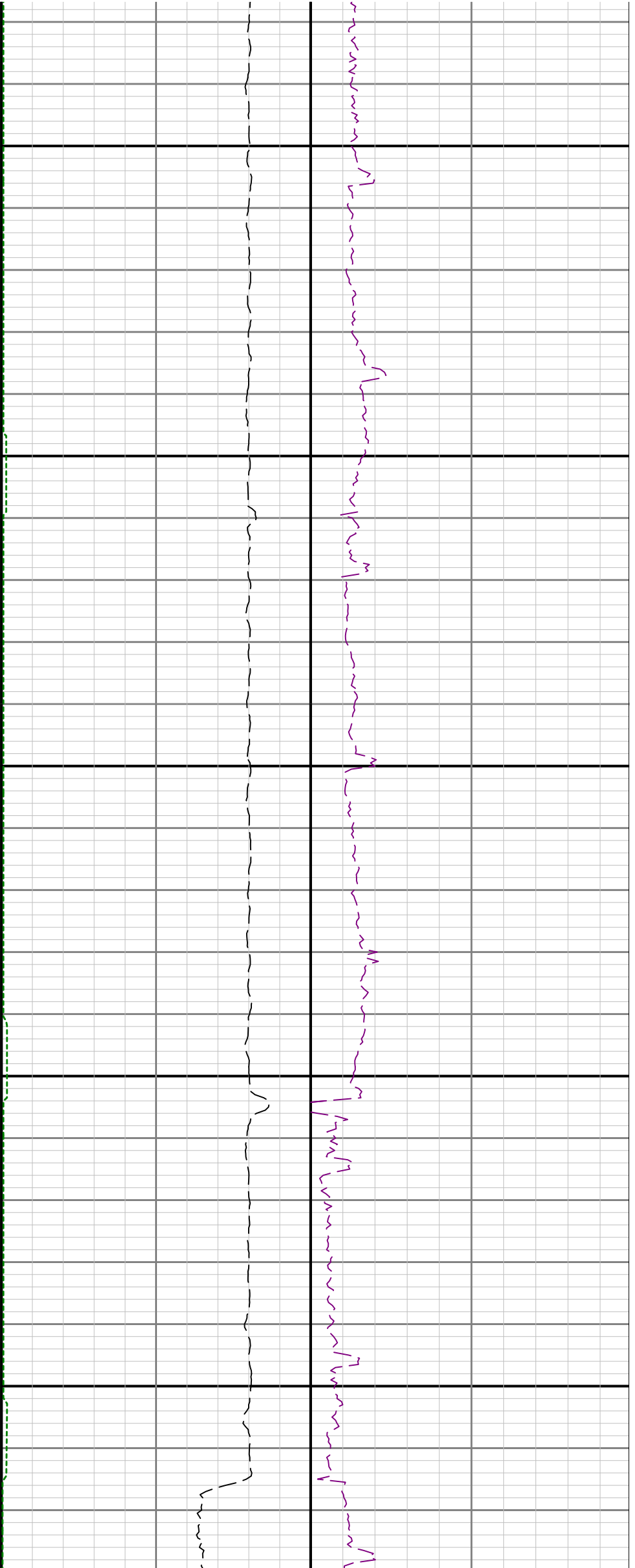
Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	11374.00	8.500	2	The interval from 11361 to 11374 feet MD (6831 feet TVD) was logged more than 10 hours after being drilled, due to a trip out of the hole to pick up a new rotary steerable assembly.
2	11545.00	8.500	2	The interval from 11512 to 11532 feet MD (6831 feet TVD) does not have gamma ray data, due to the 3rd party depth tracking system computer locking up.
3	17630.00	8.500	2	The interval from 17617 to 17630 feet MD (6837 feet TVD) was not logged after being drilled due to sensor to bit offset at well TD.

Curve Mnemonics

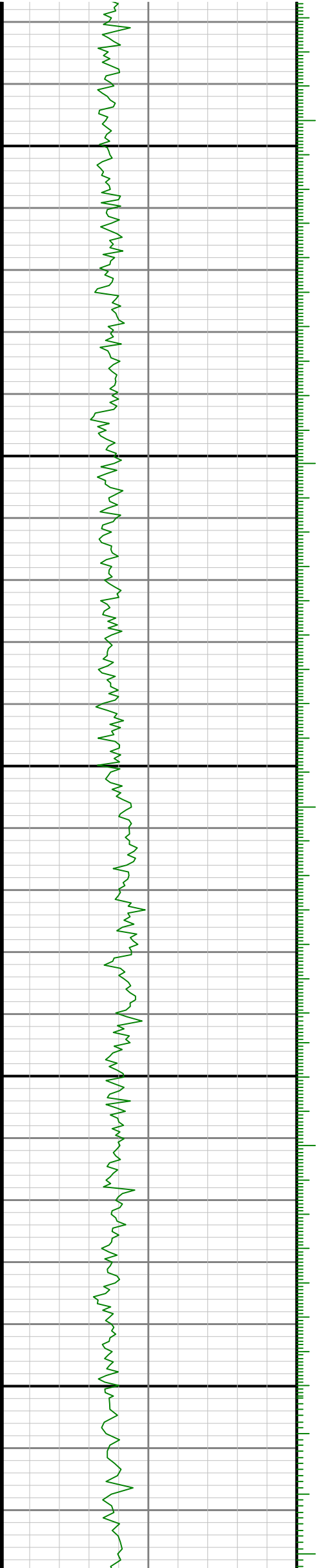
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
GRIM	Gamma Ray - Data Point Indicator - Memory	unitless
GRTM	Gamma Ray - Time Since Drilled - Memory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

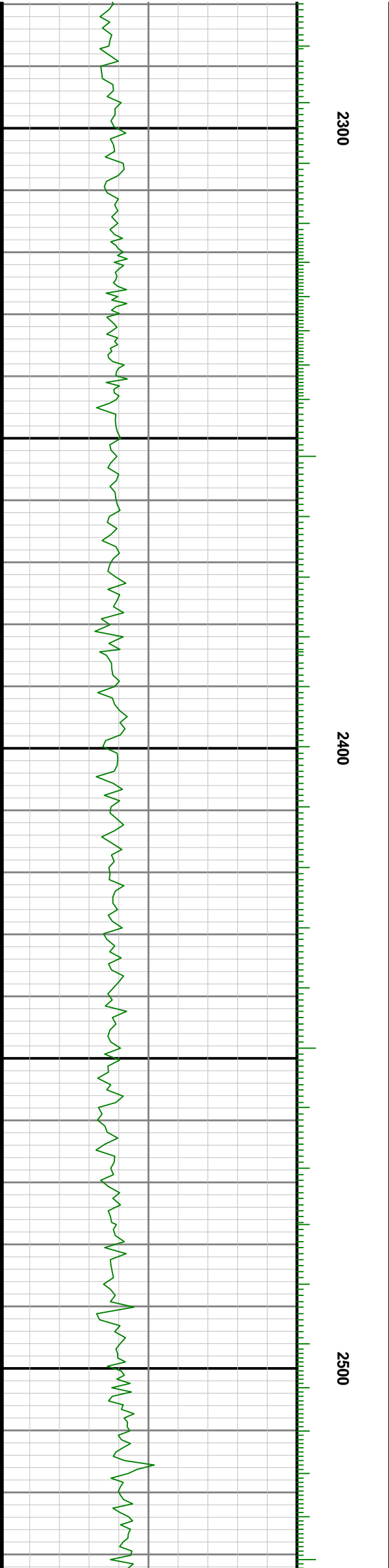
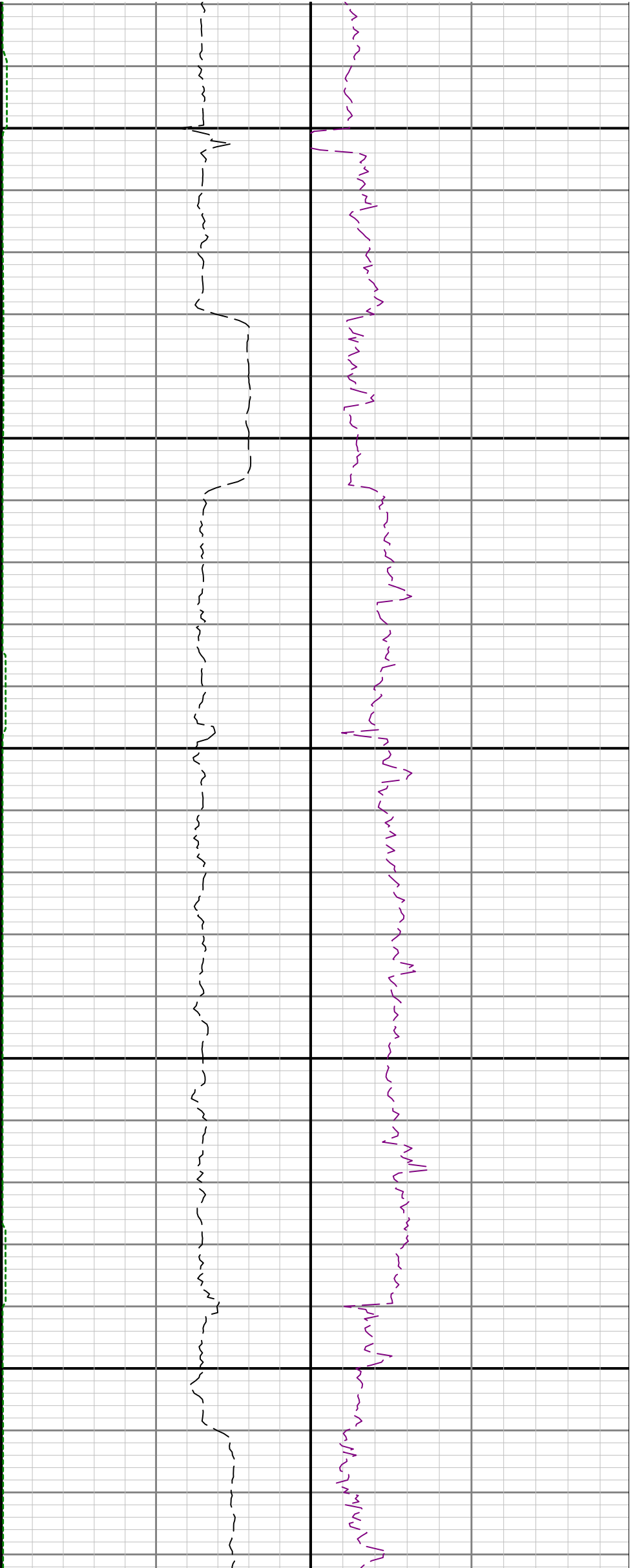


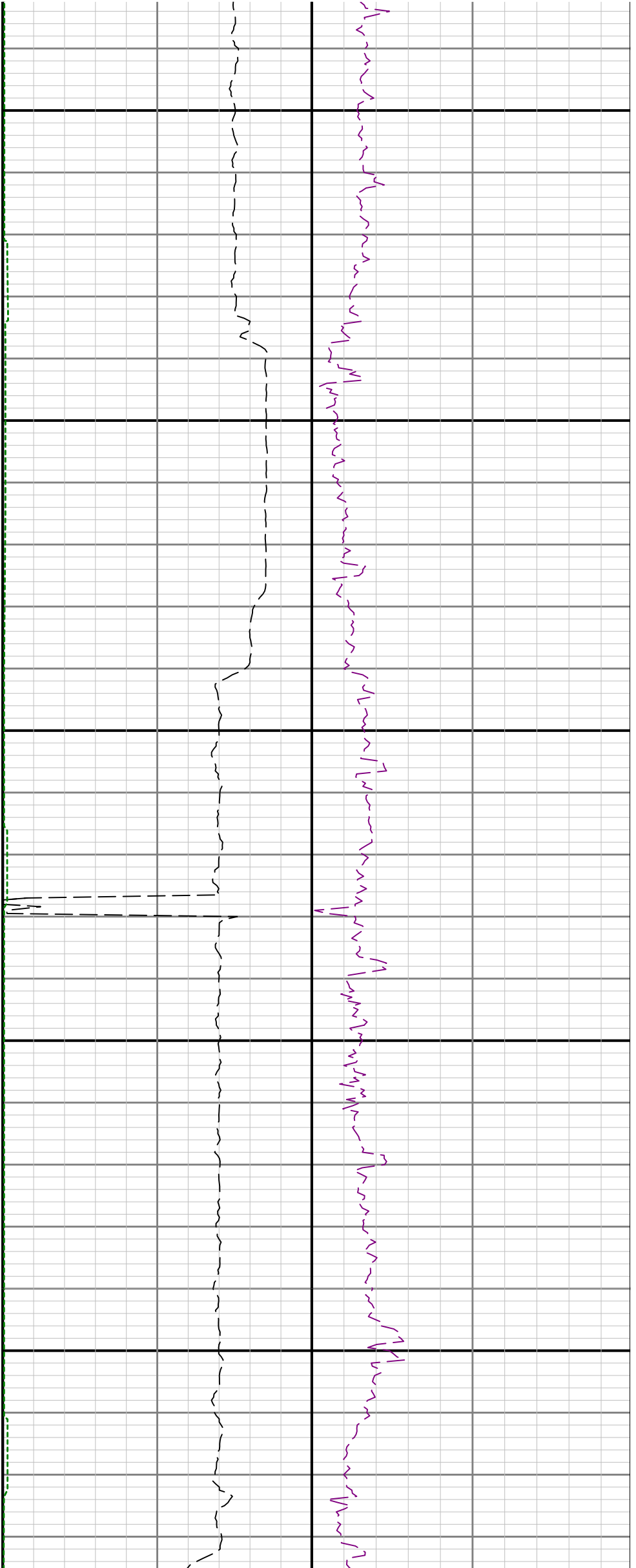


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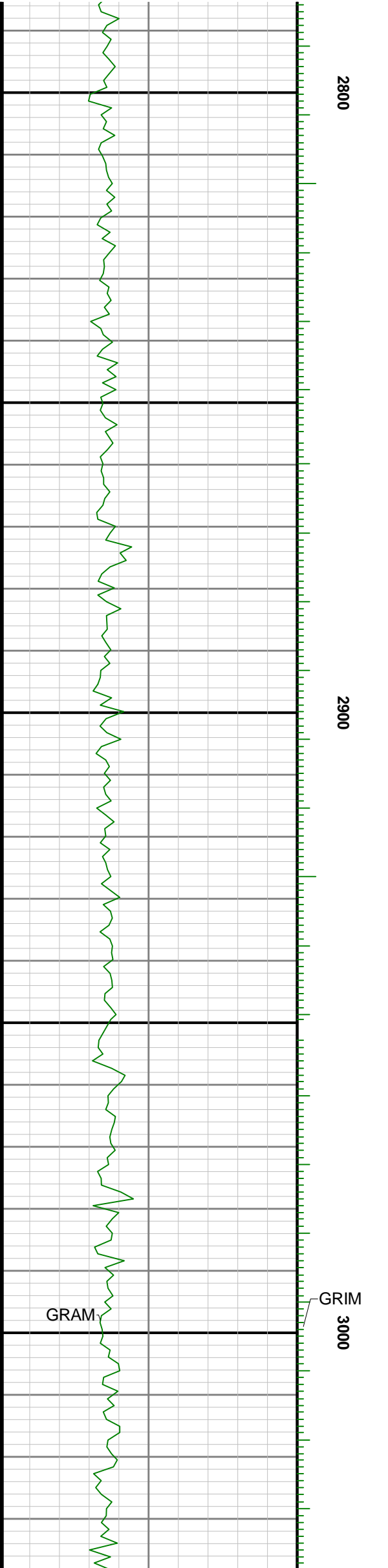
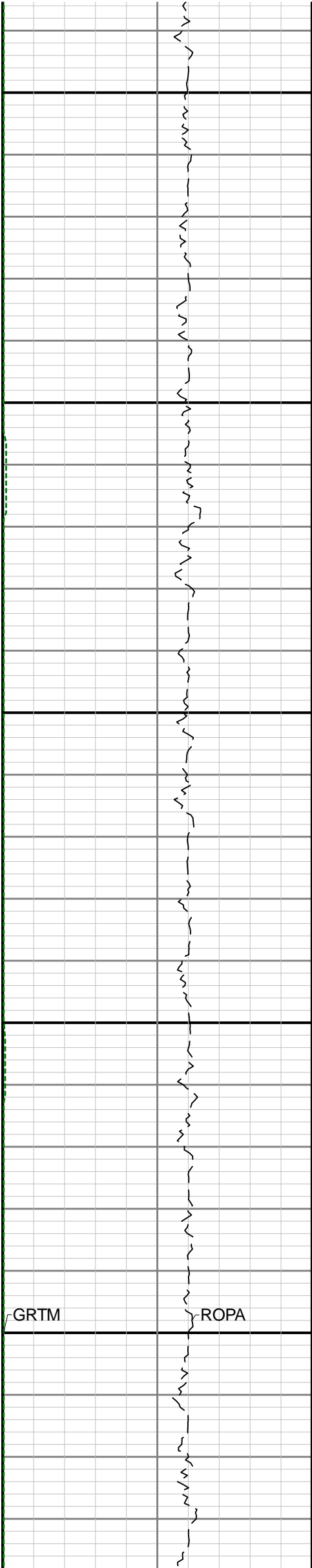
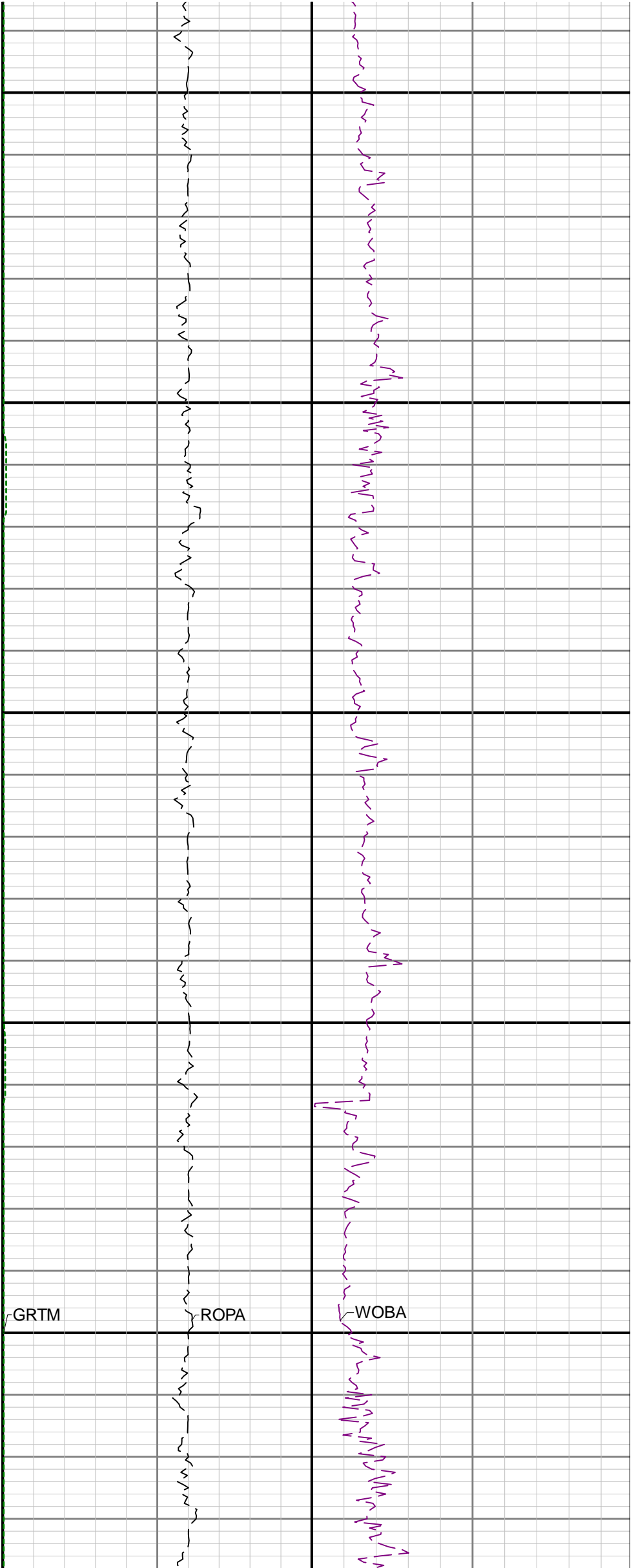


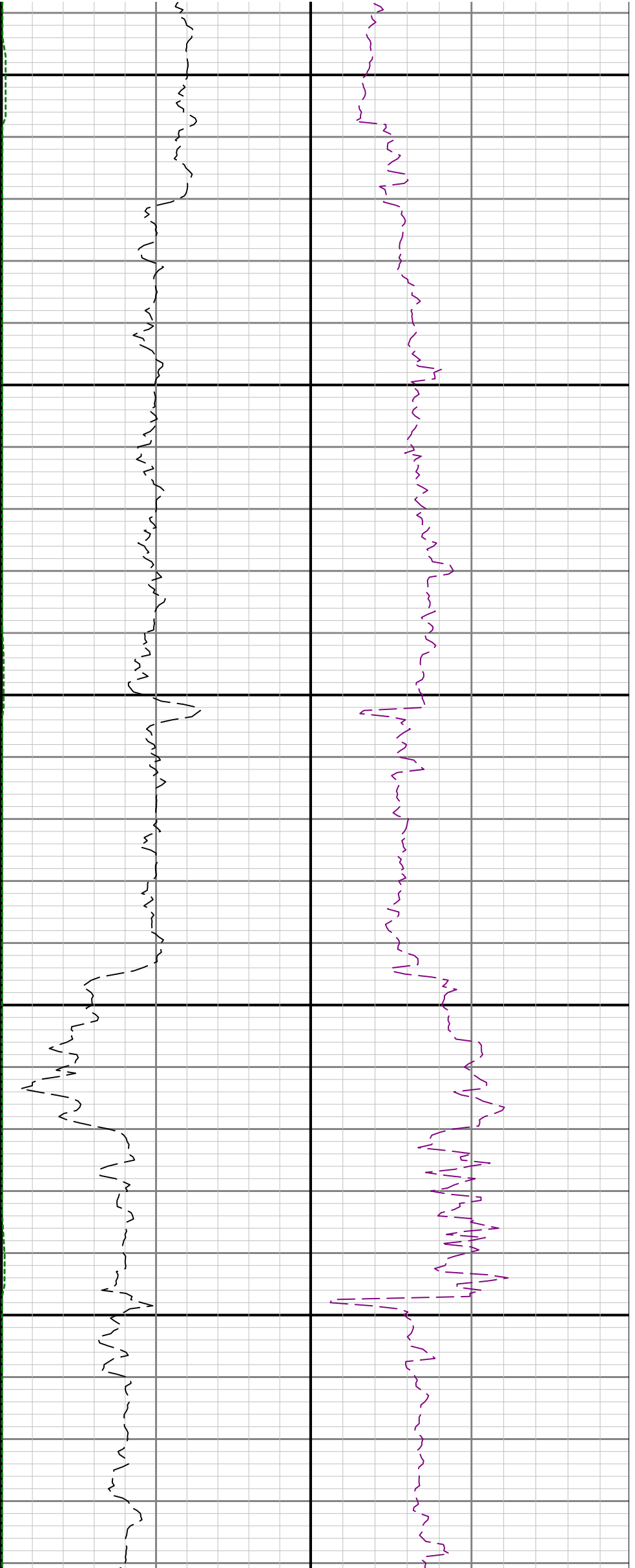




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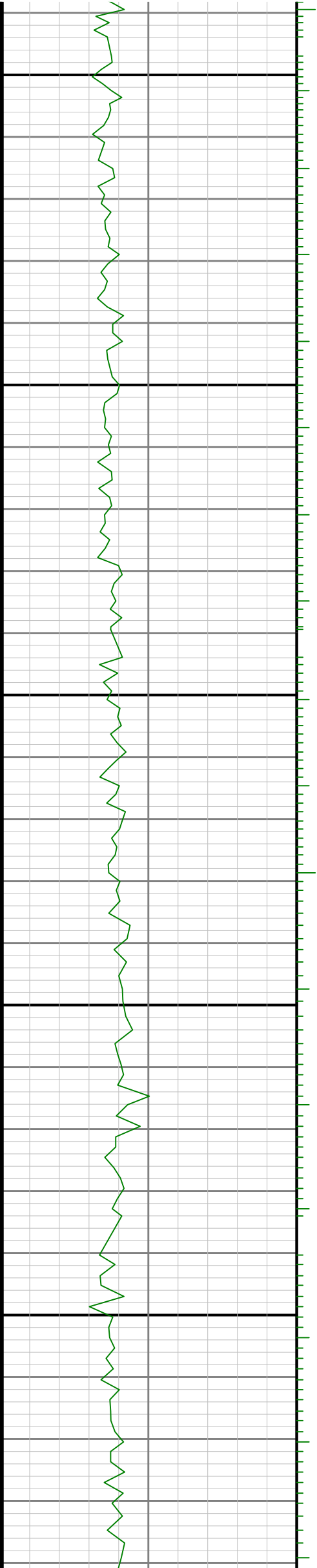
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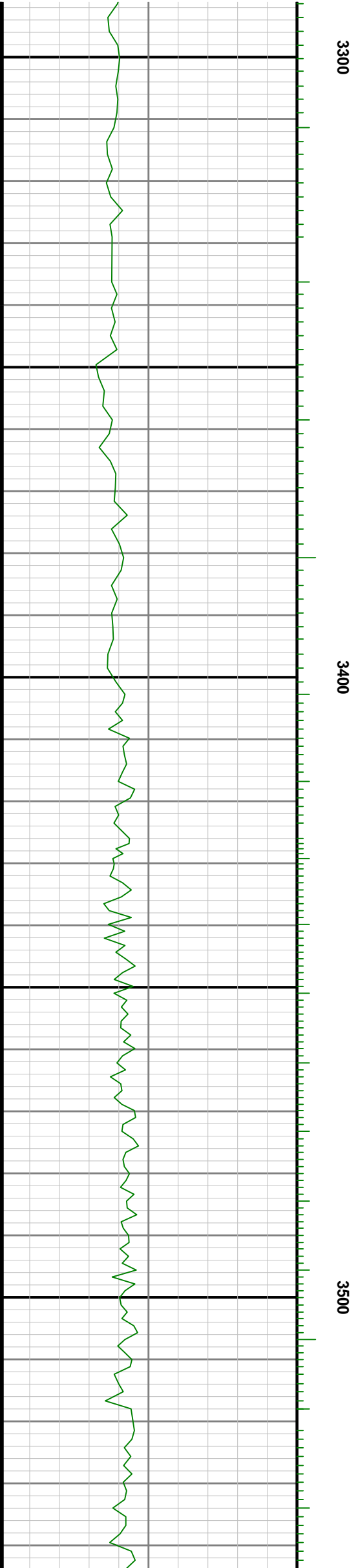
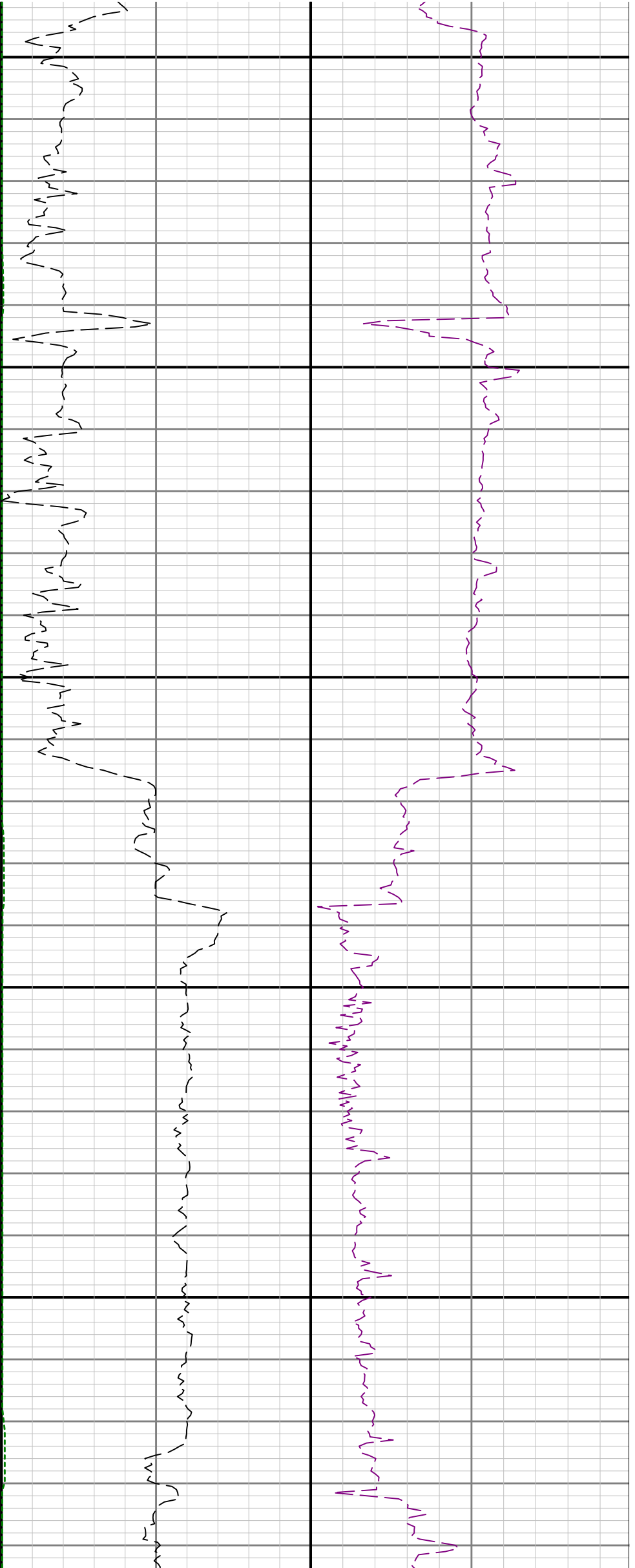


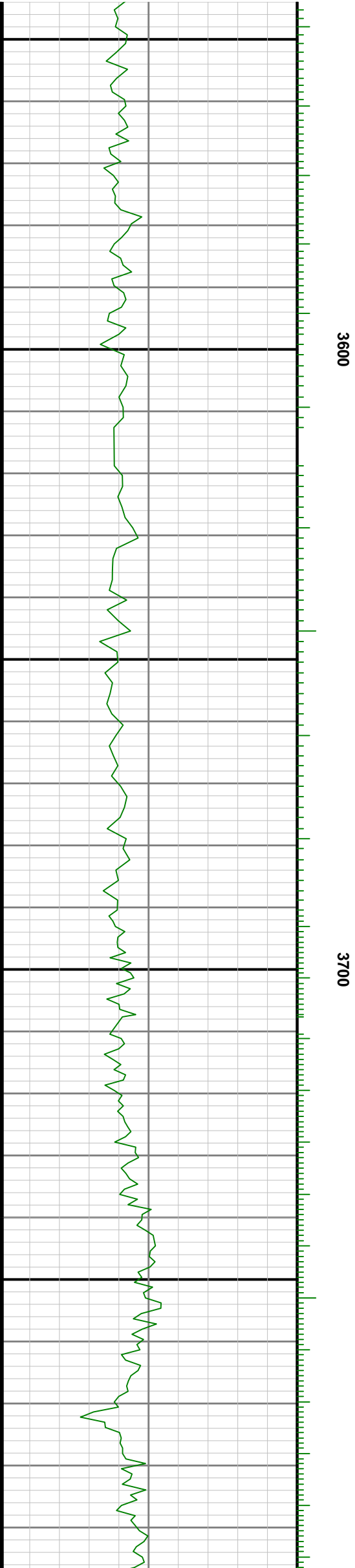
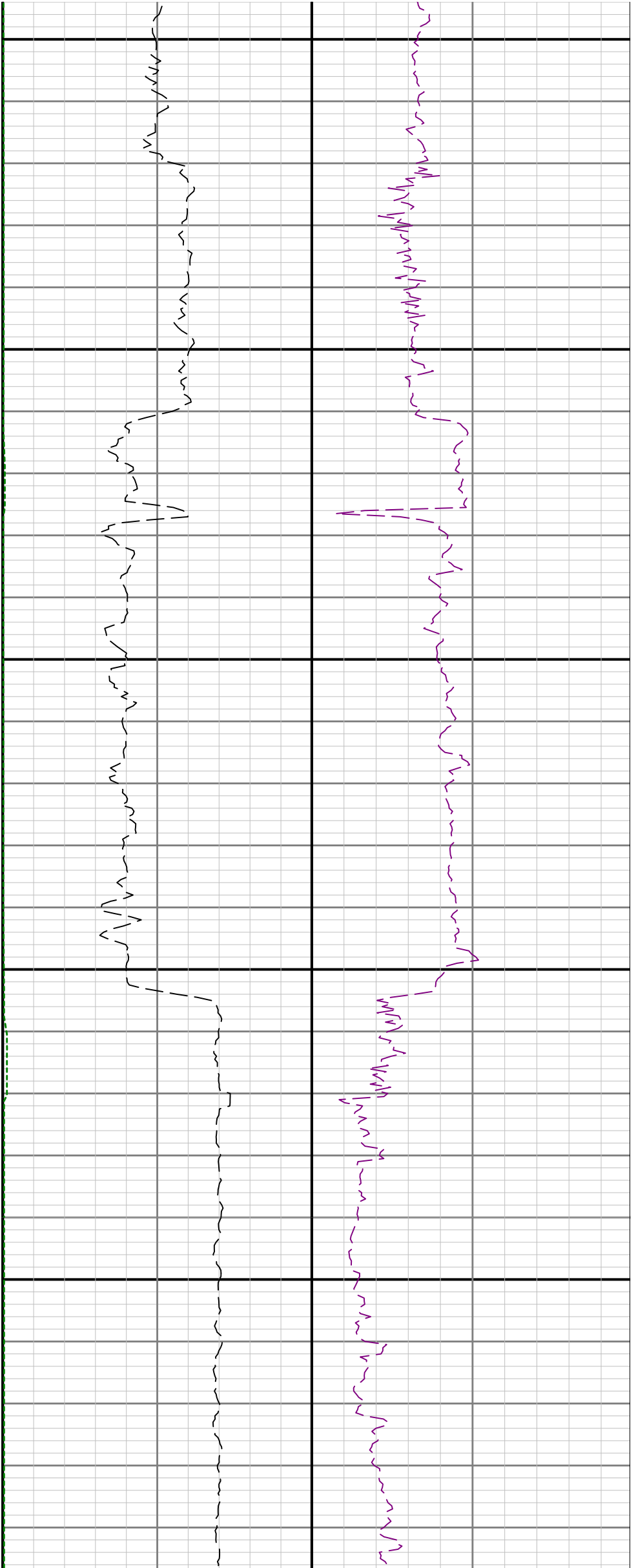


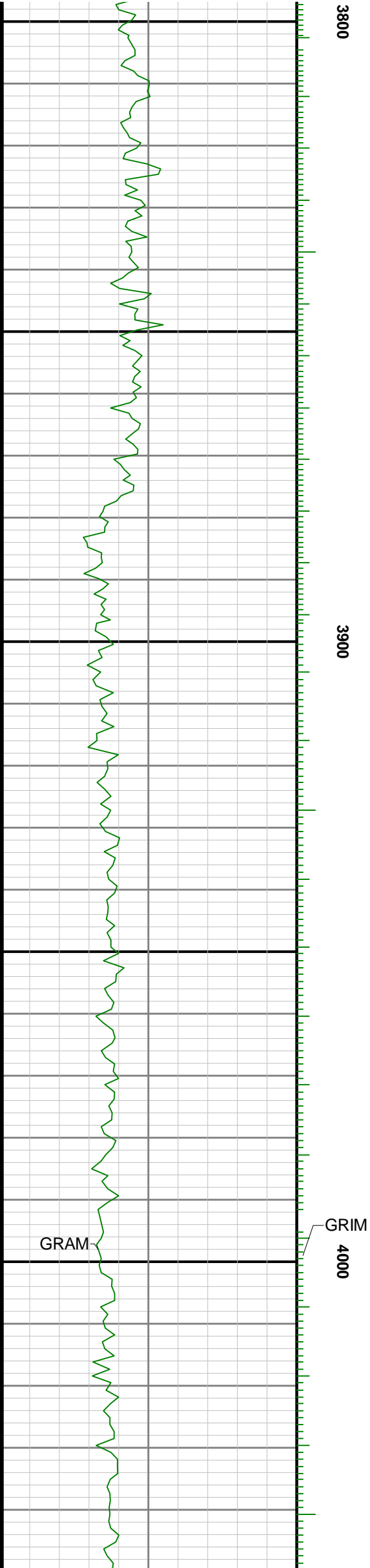
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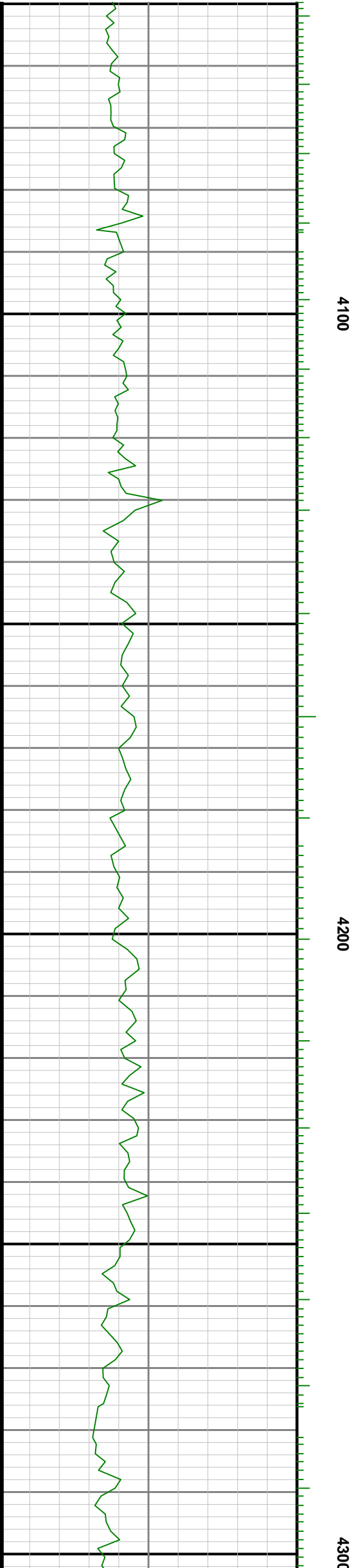
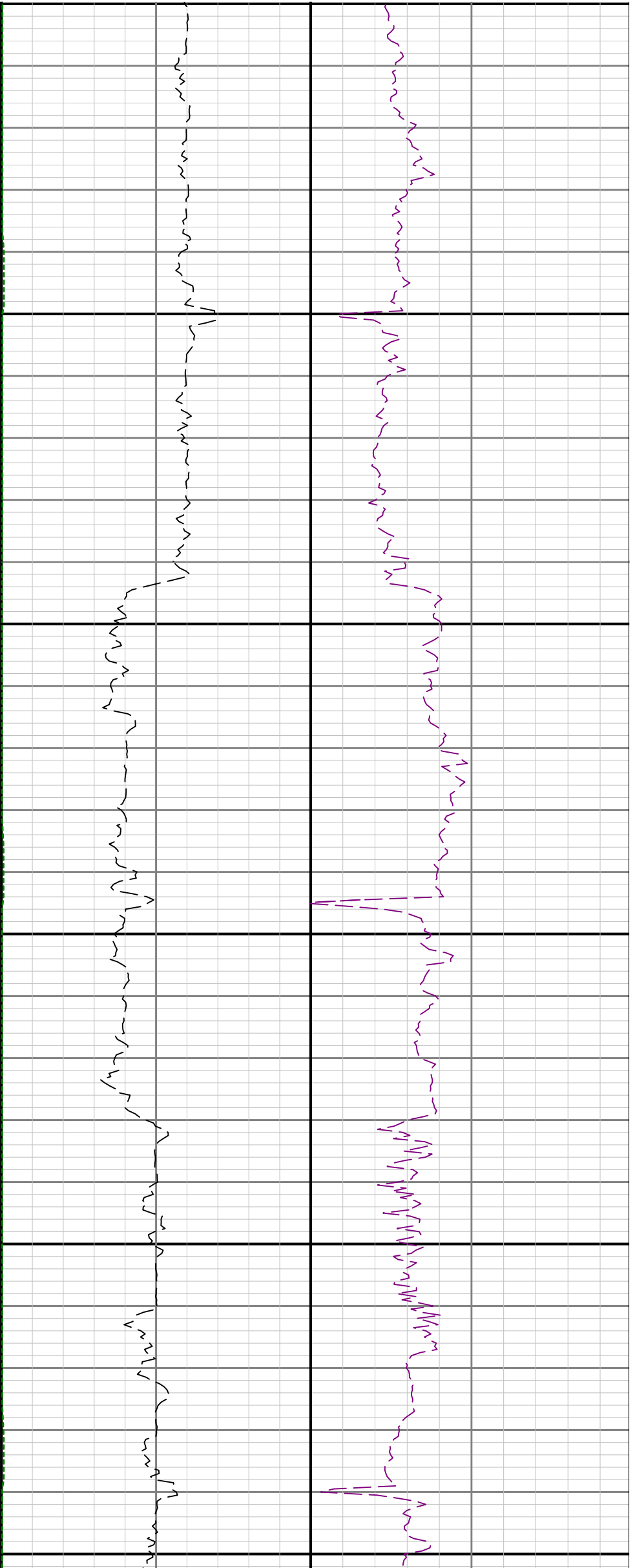
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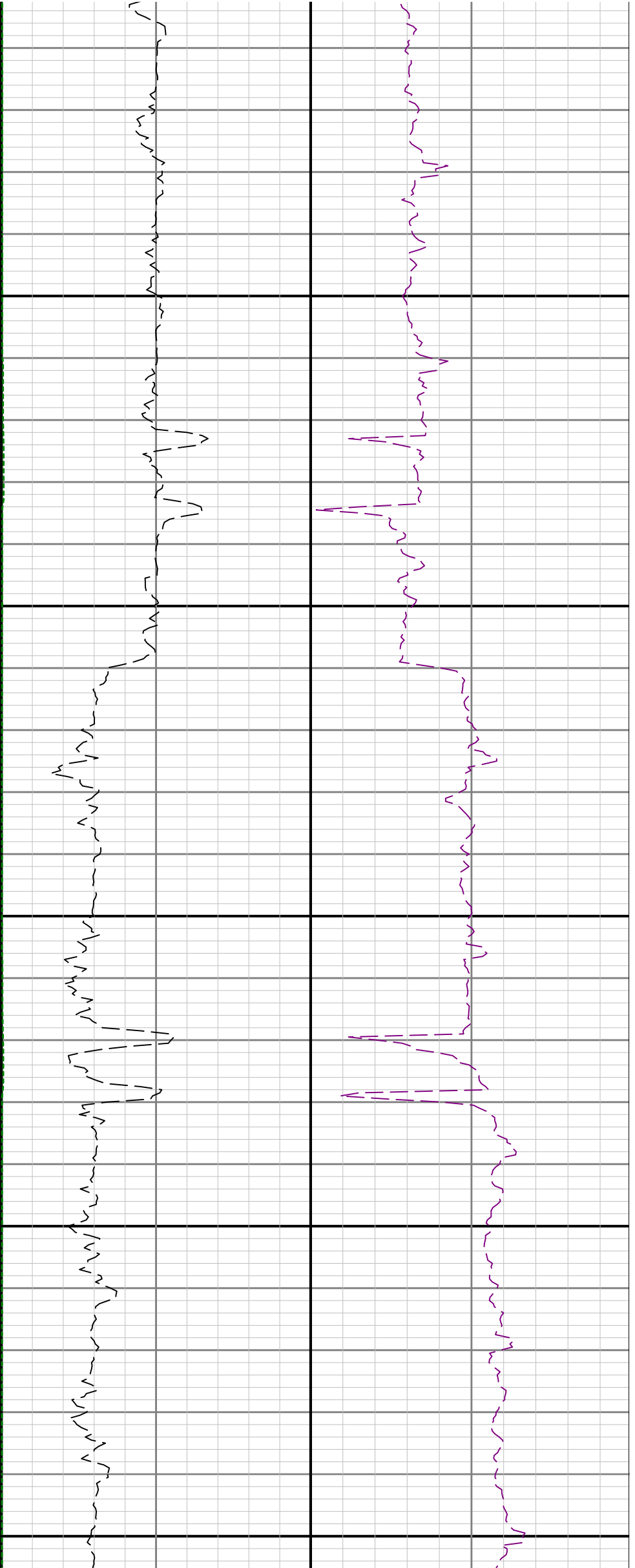






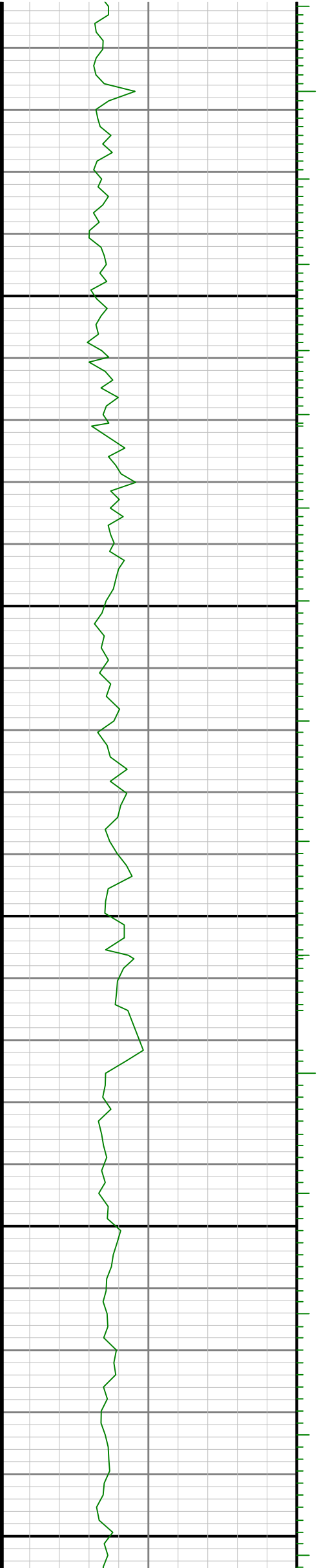


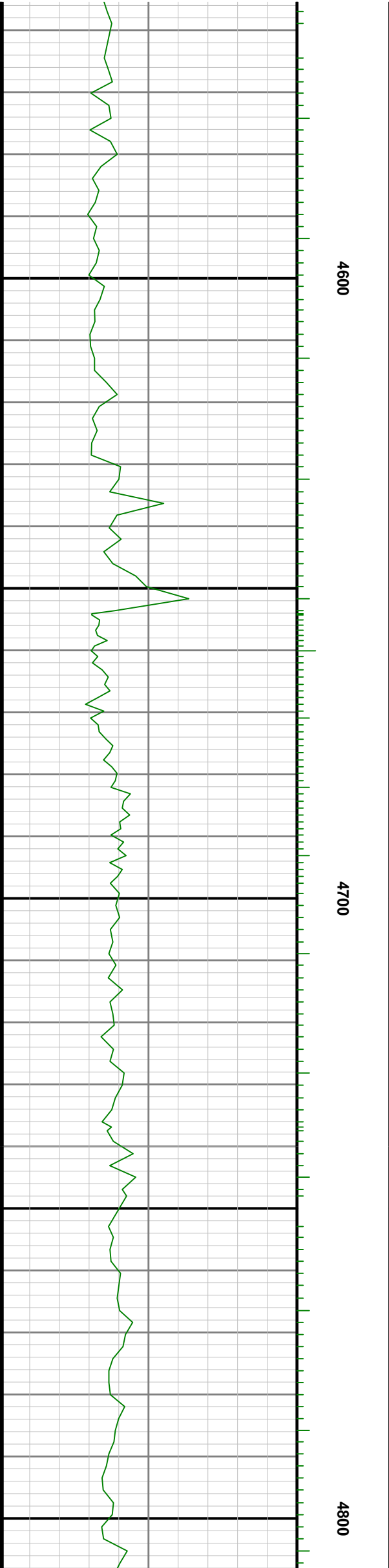
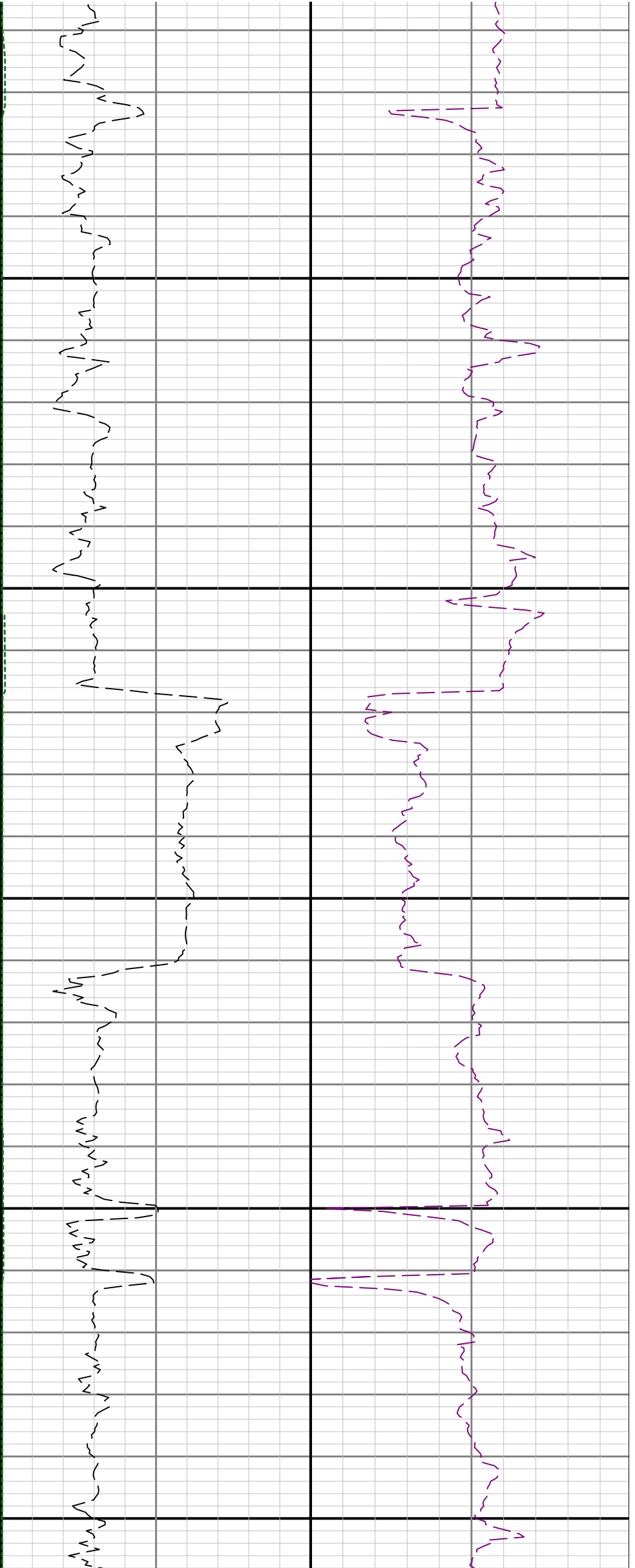


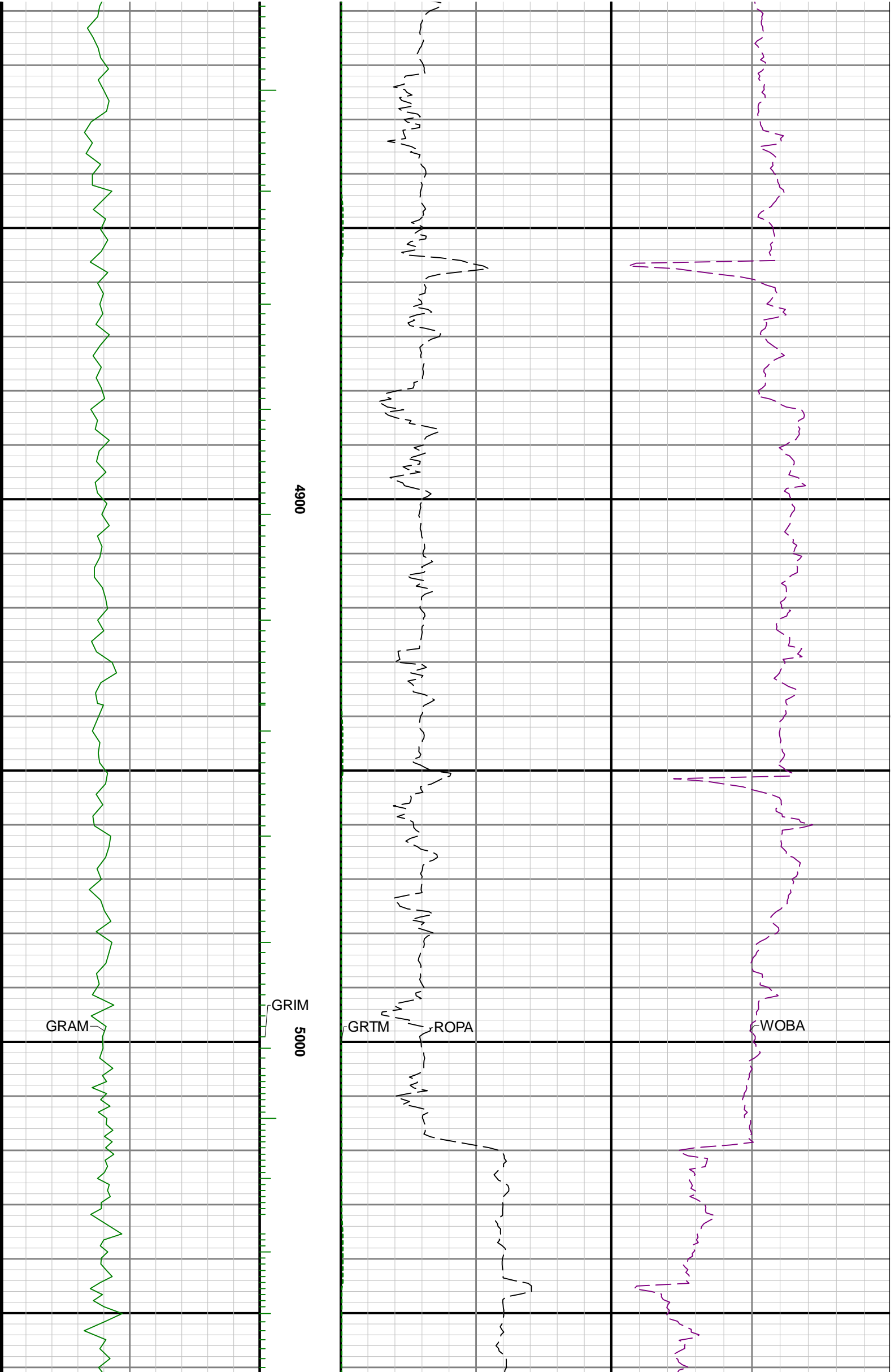


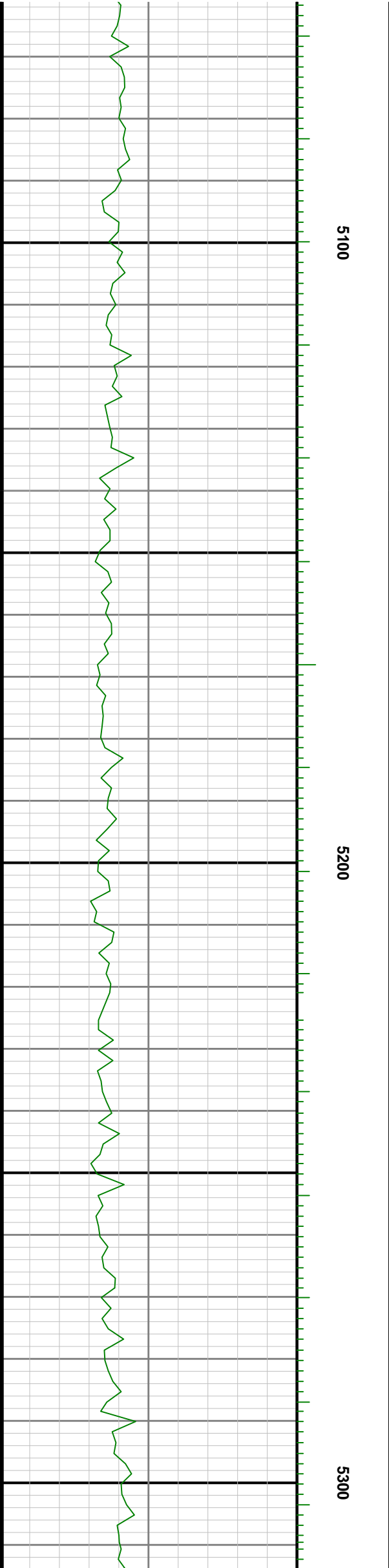
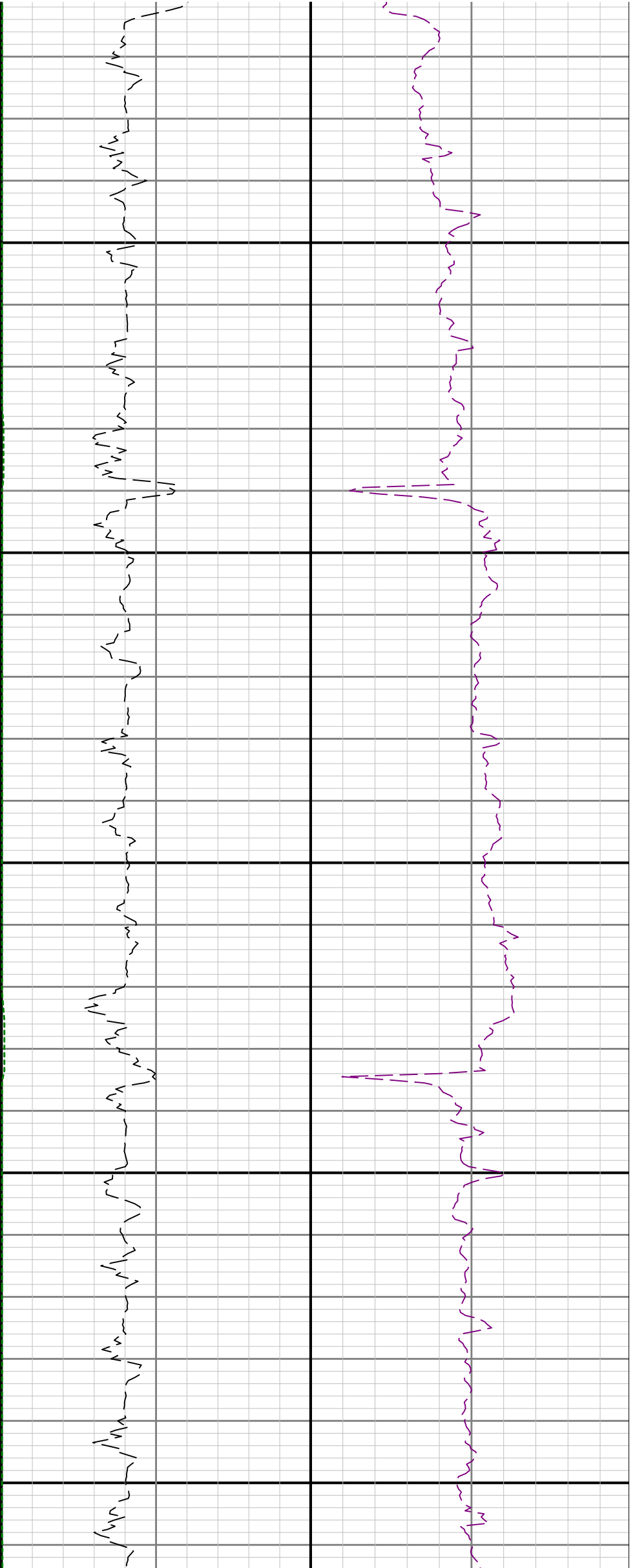
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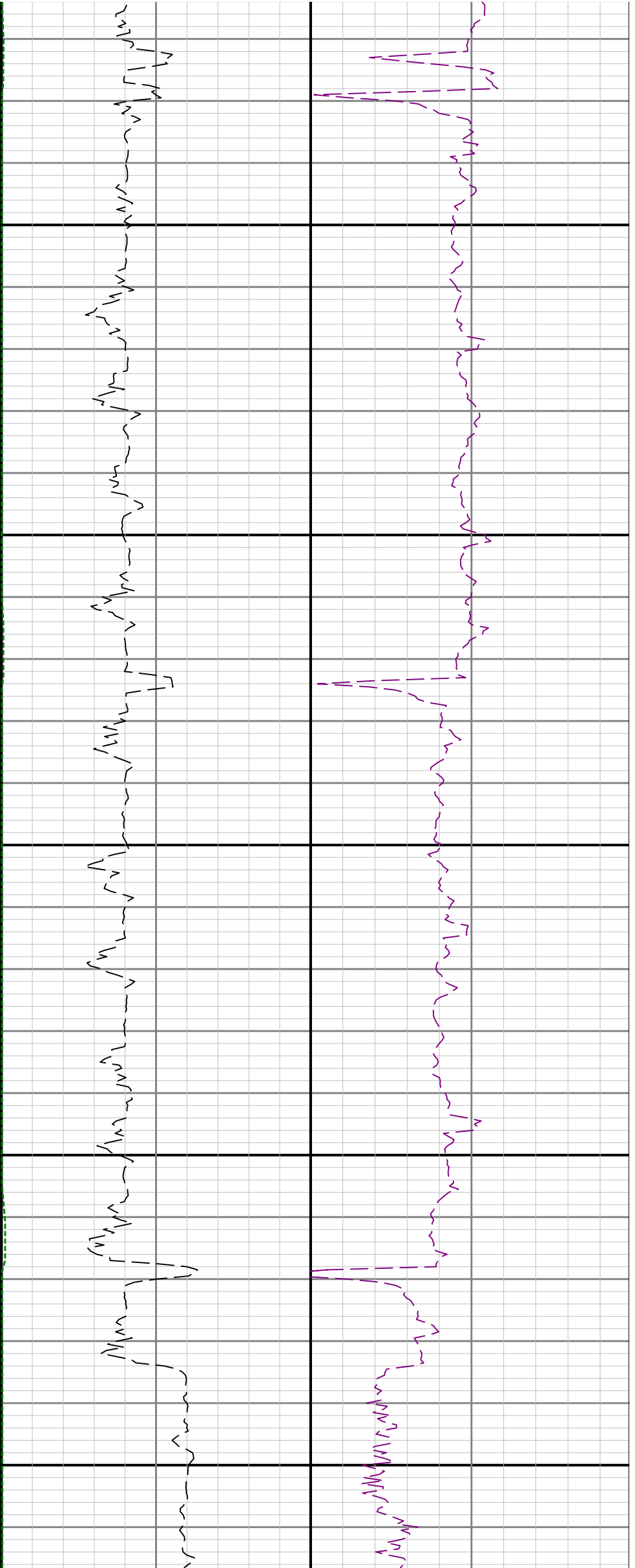
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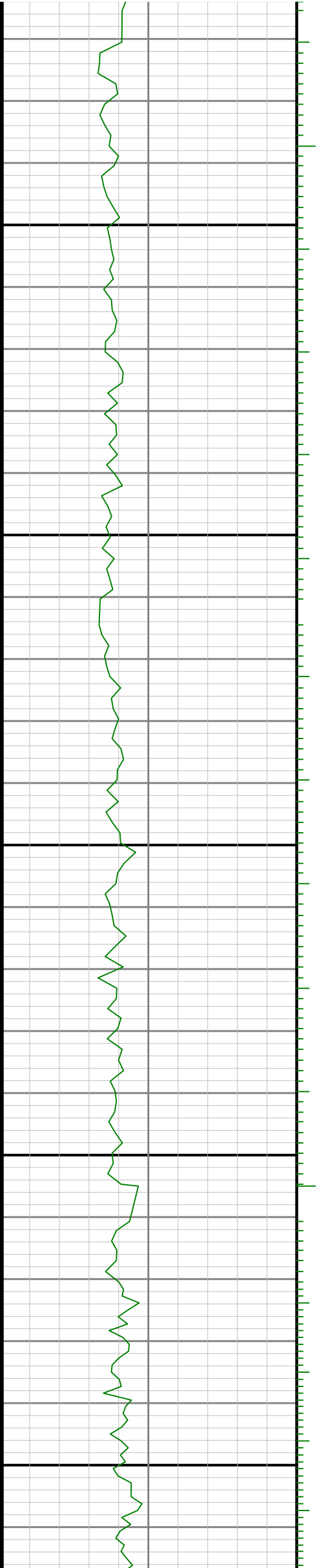


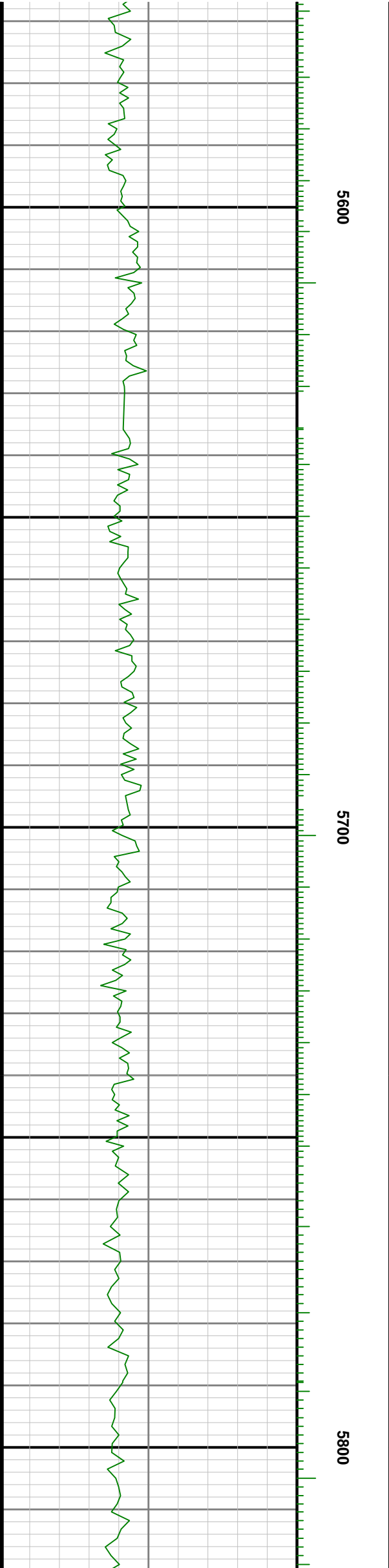
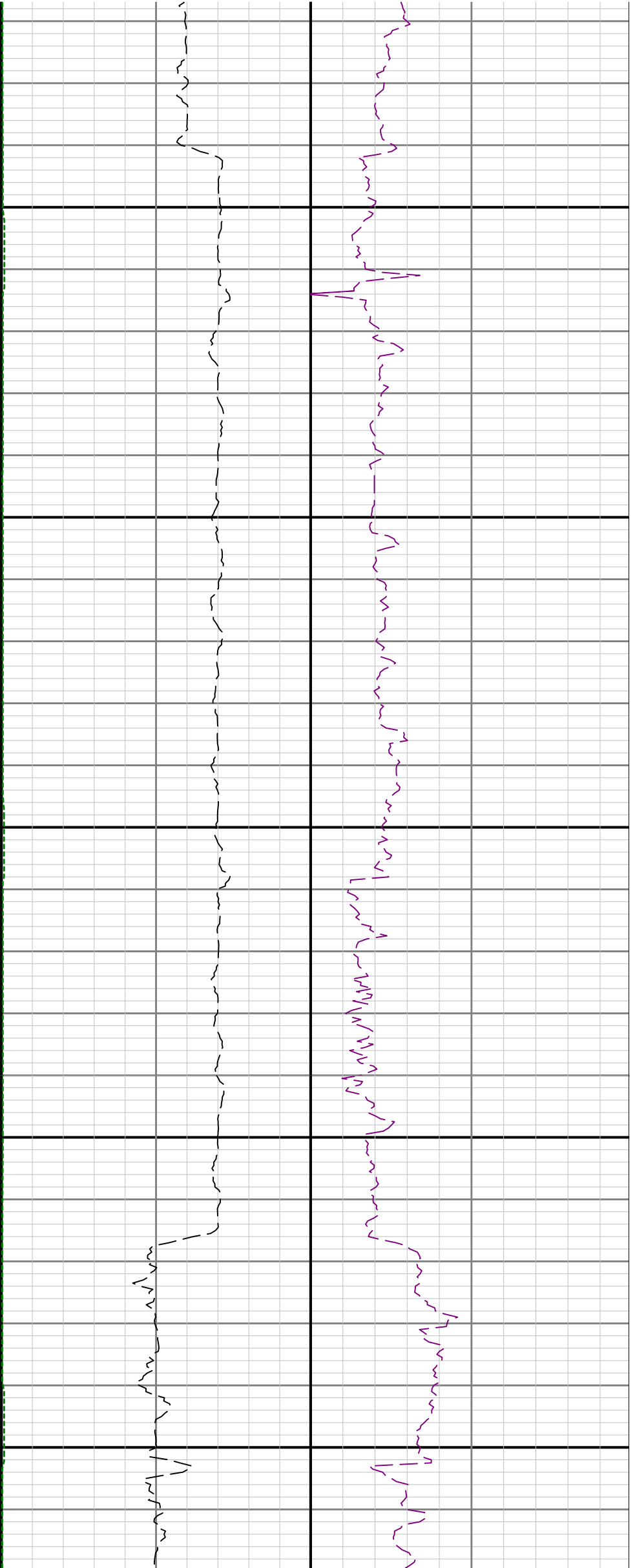


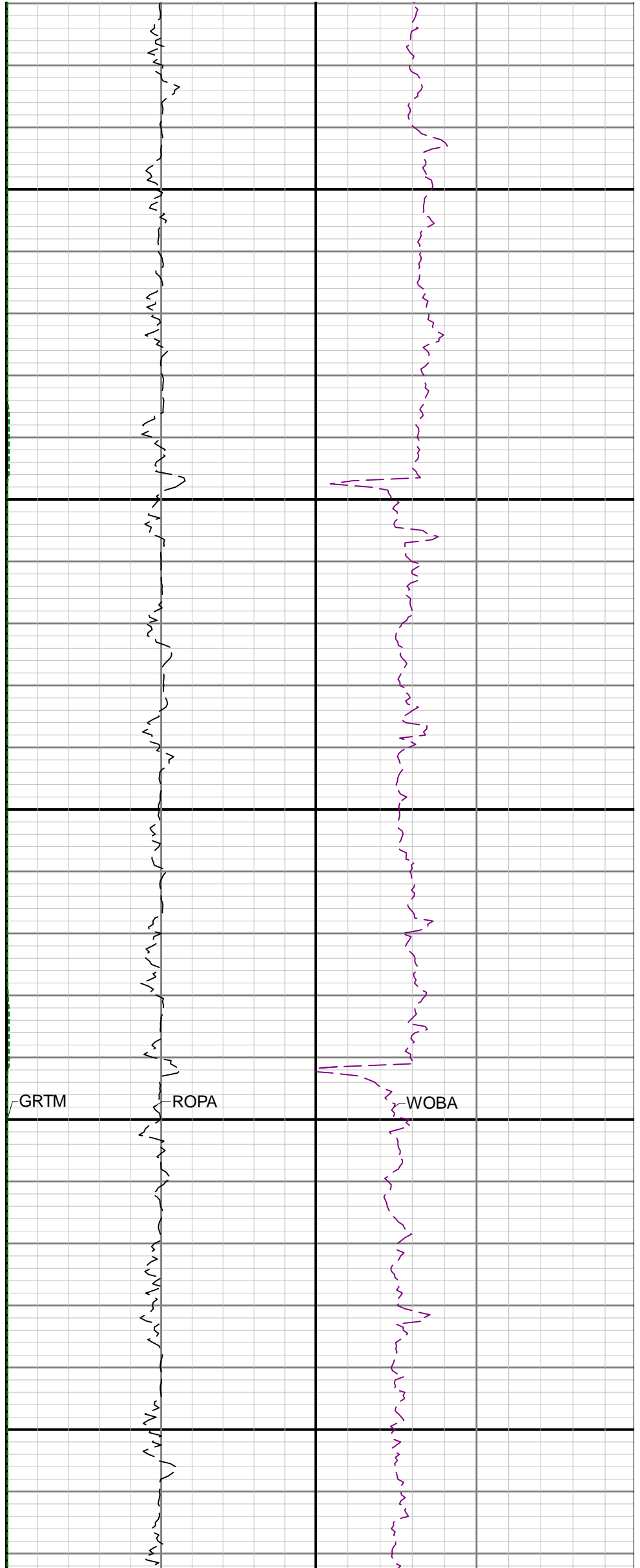
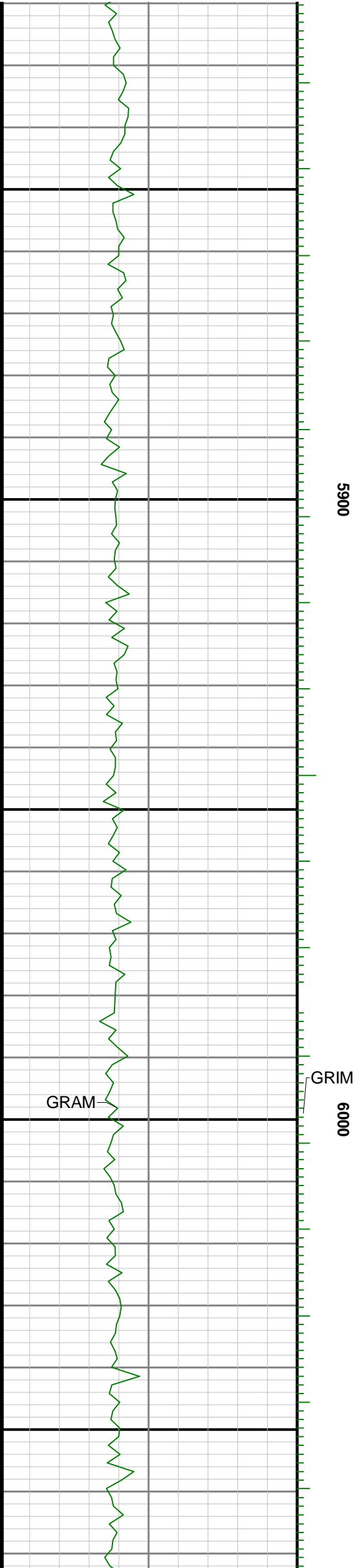


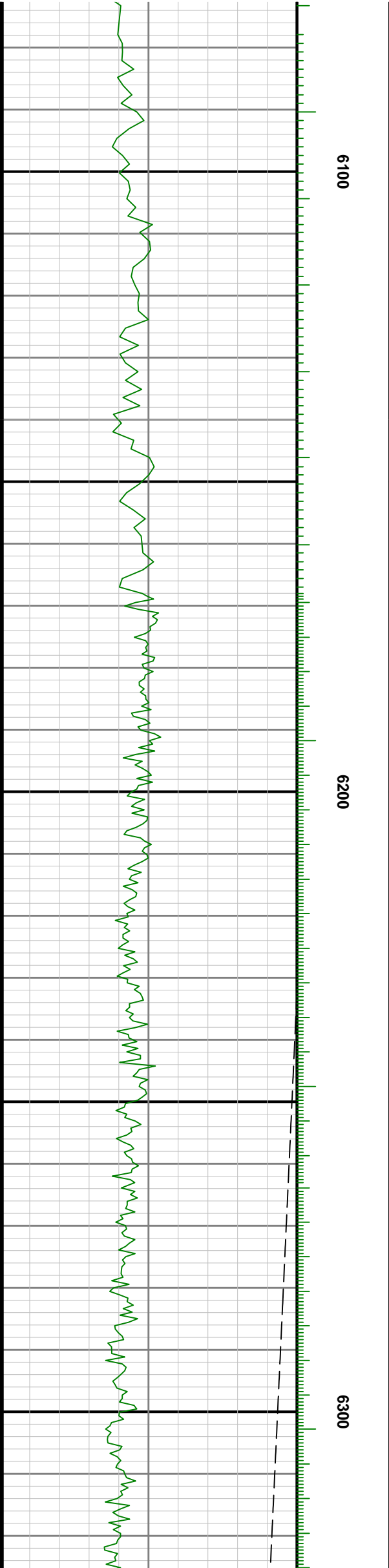
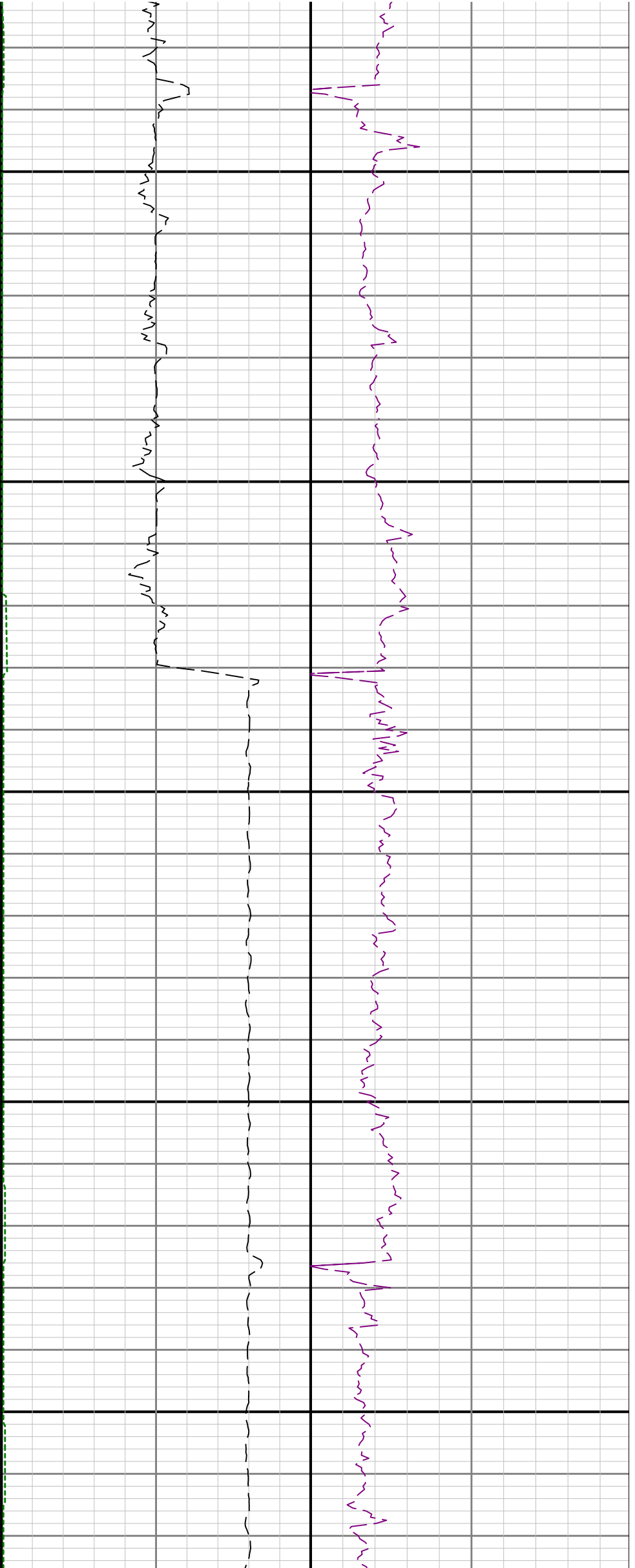
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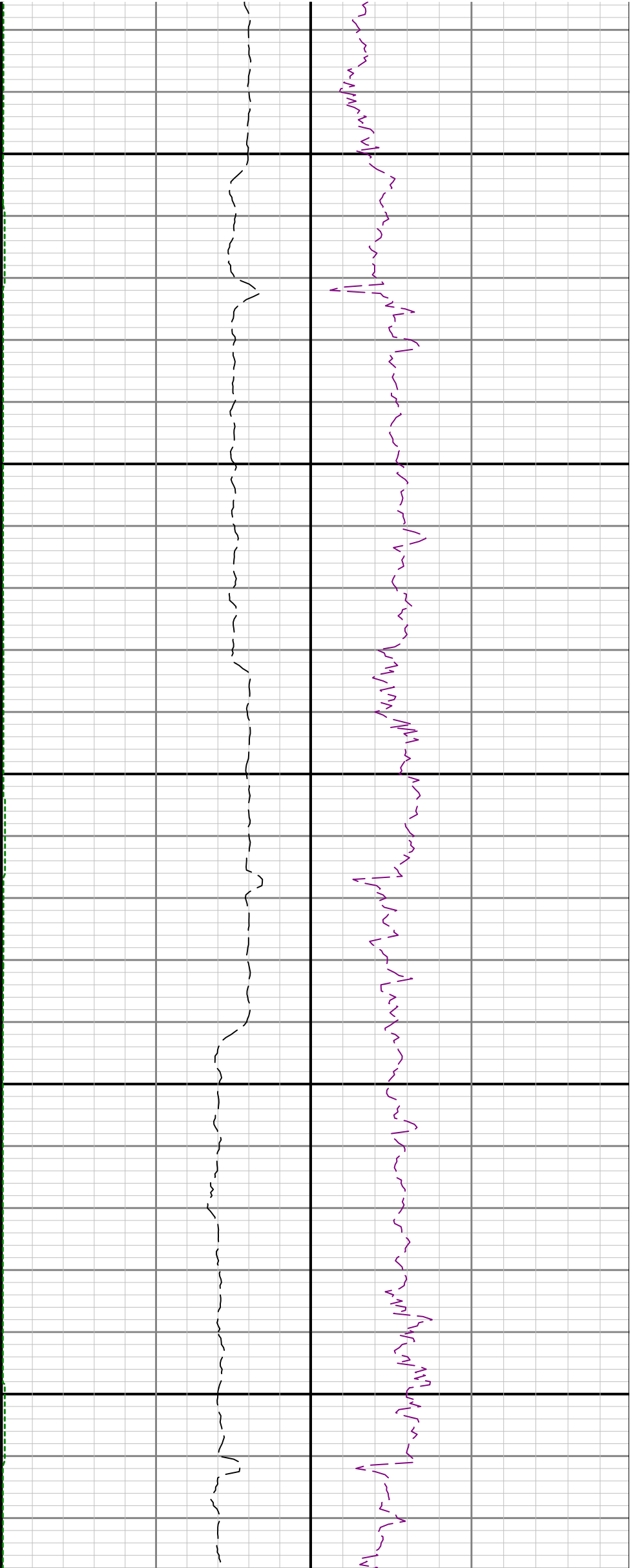
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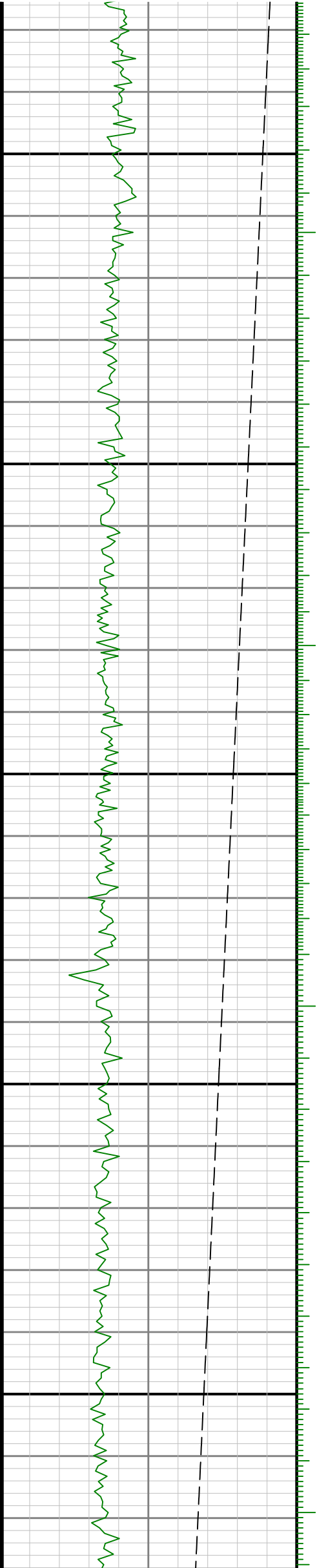


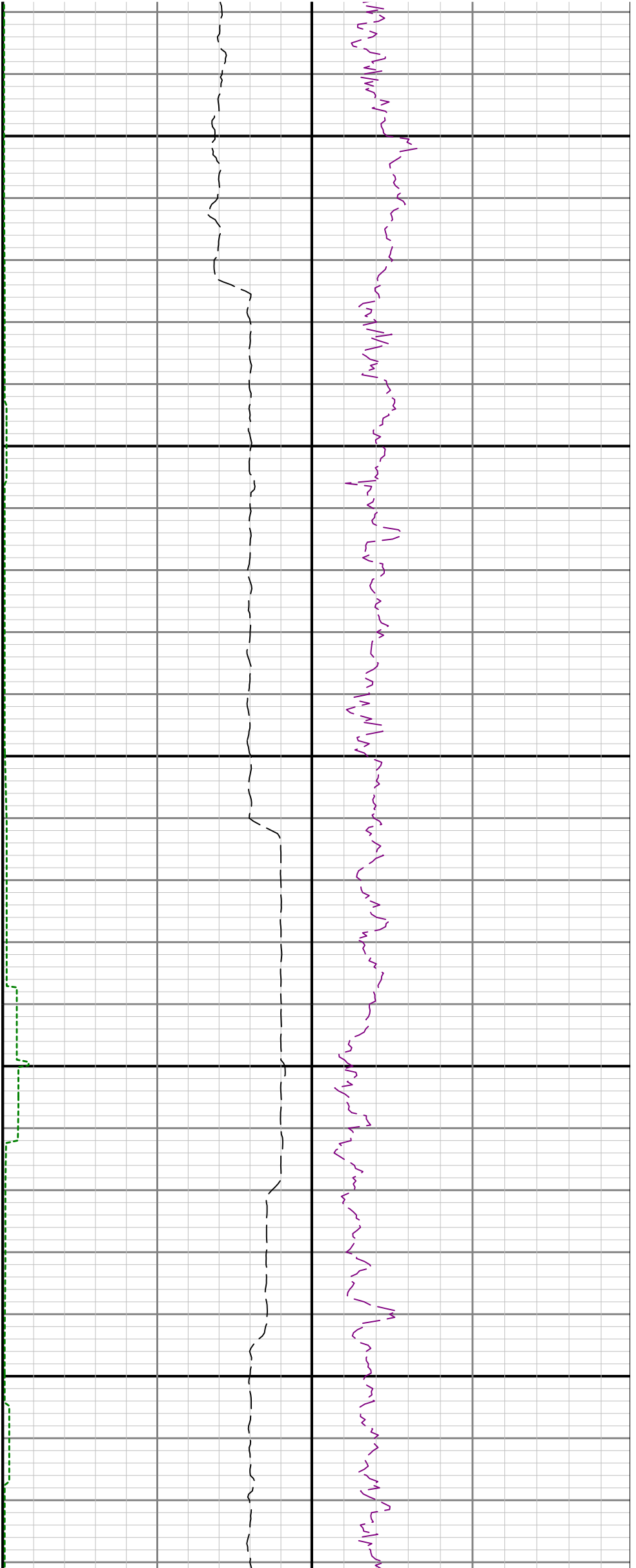




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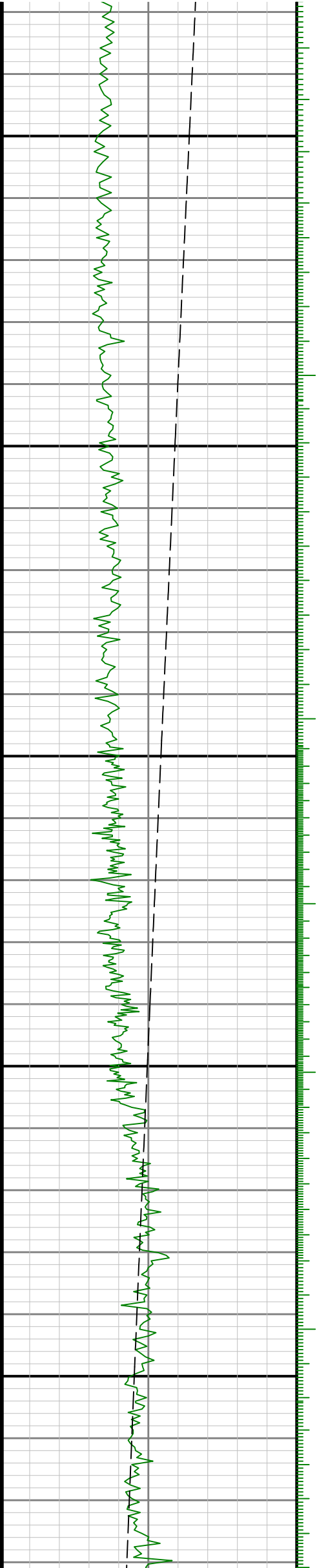


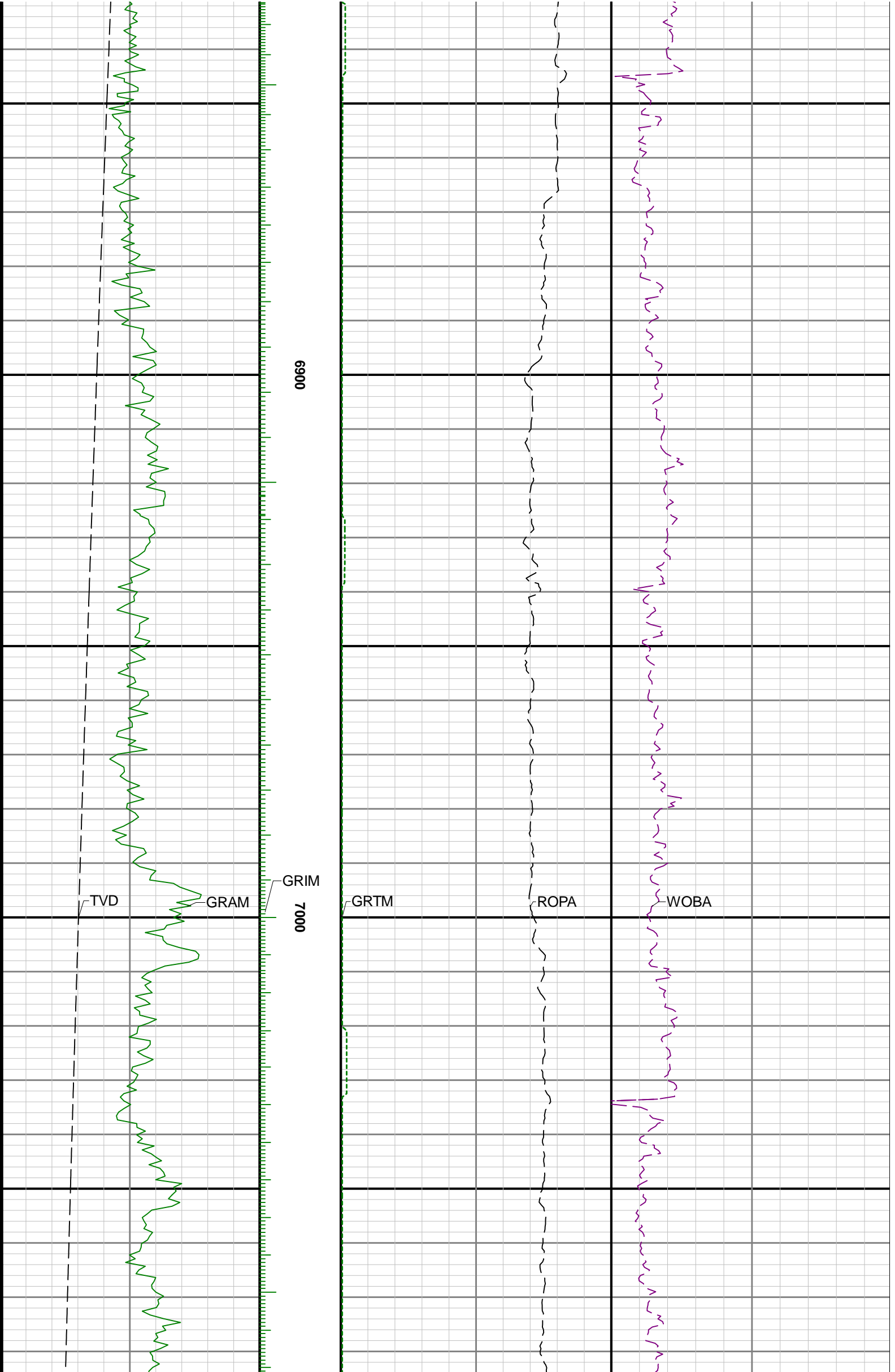


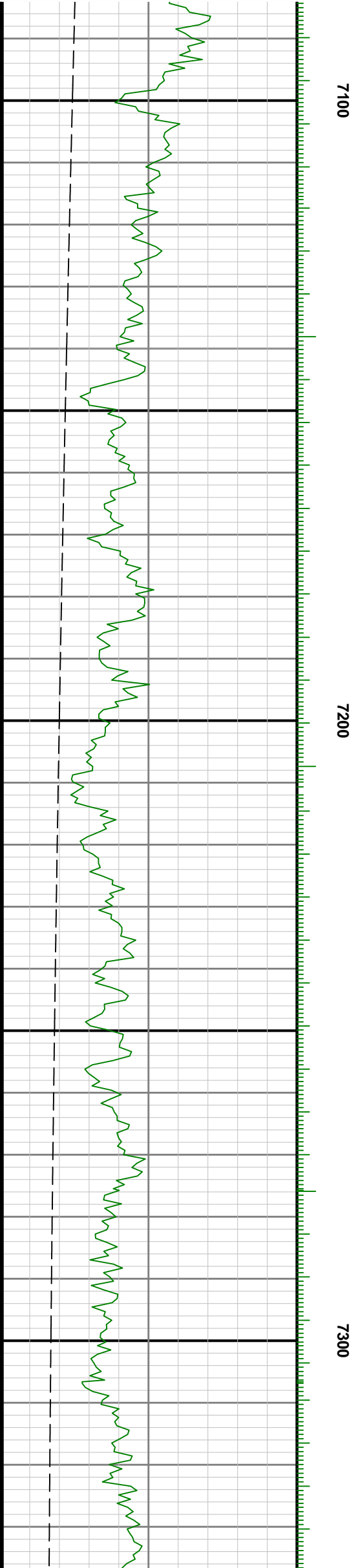
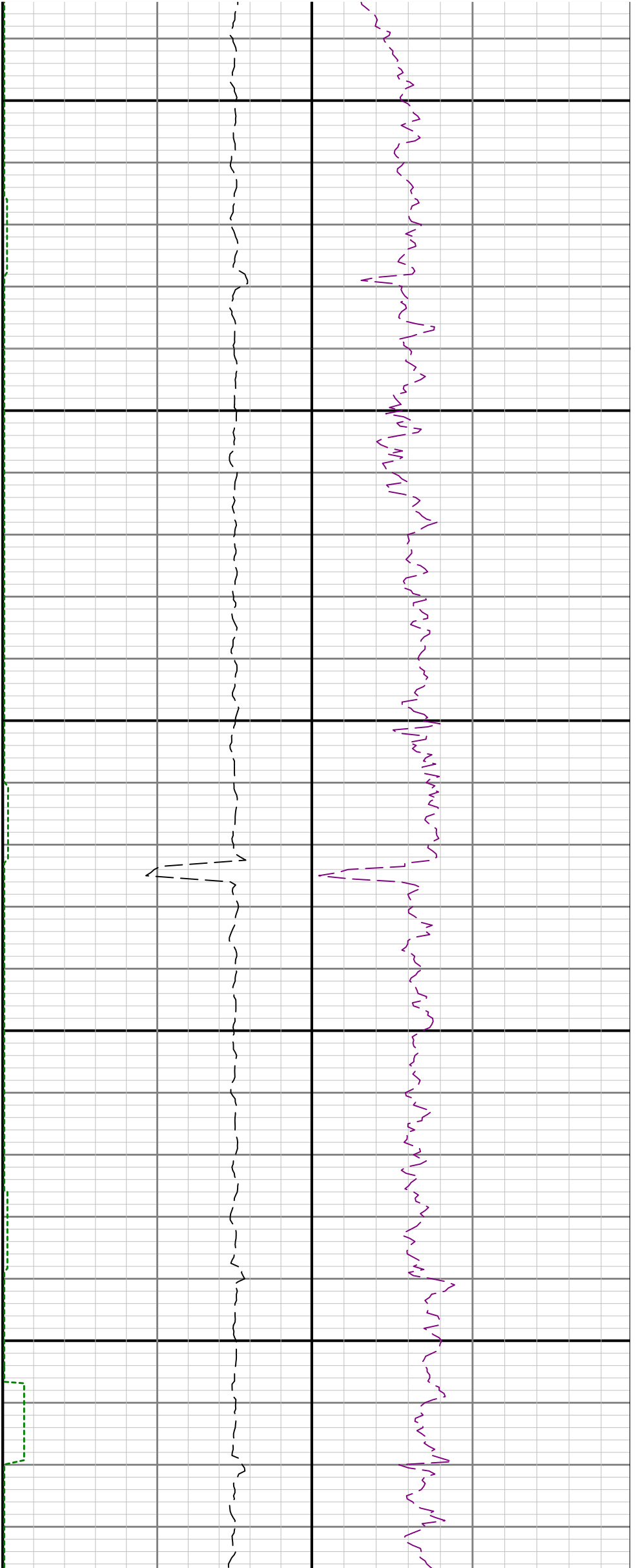
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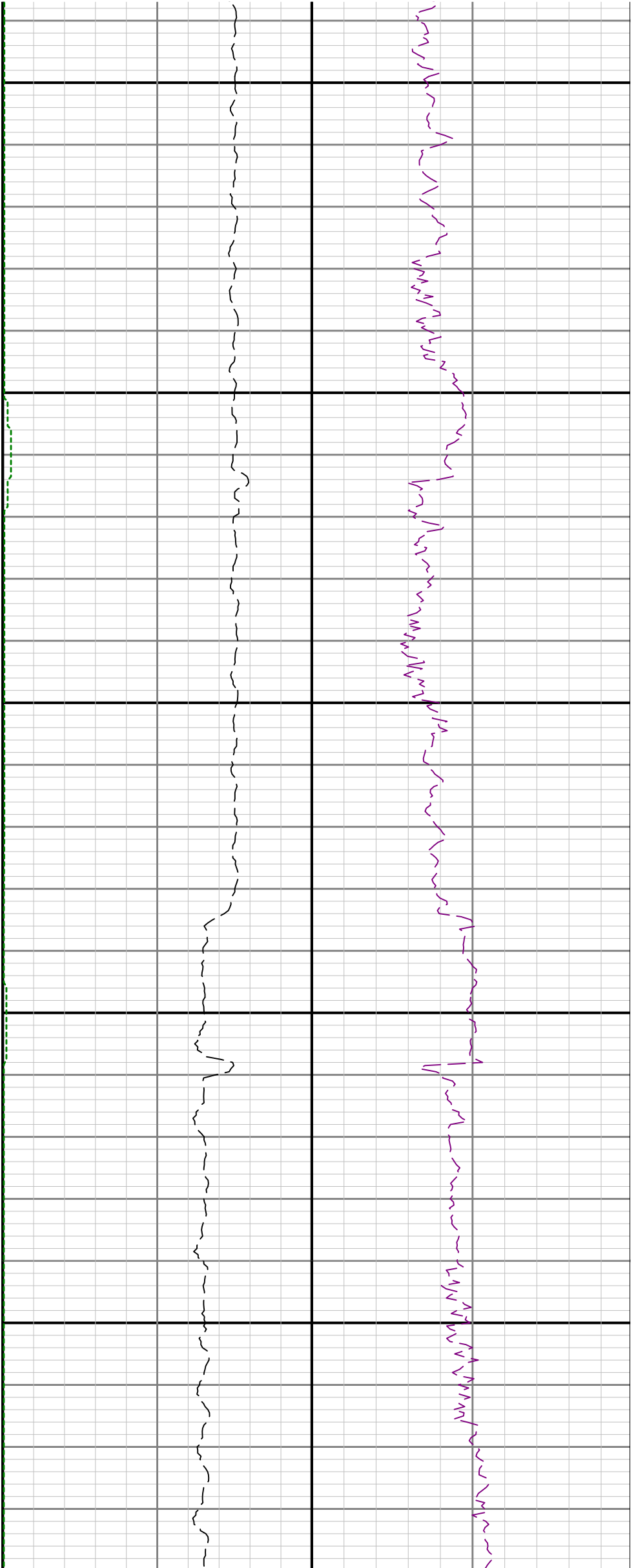
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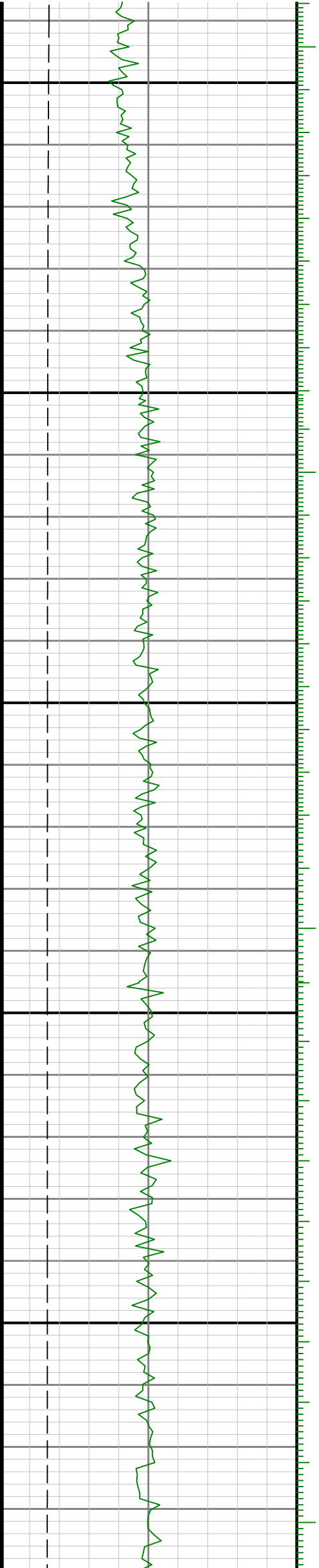


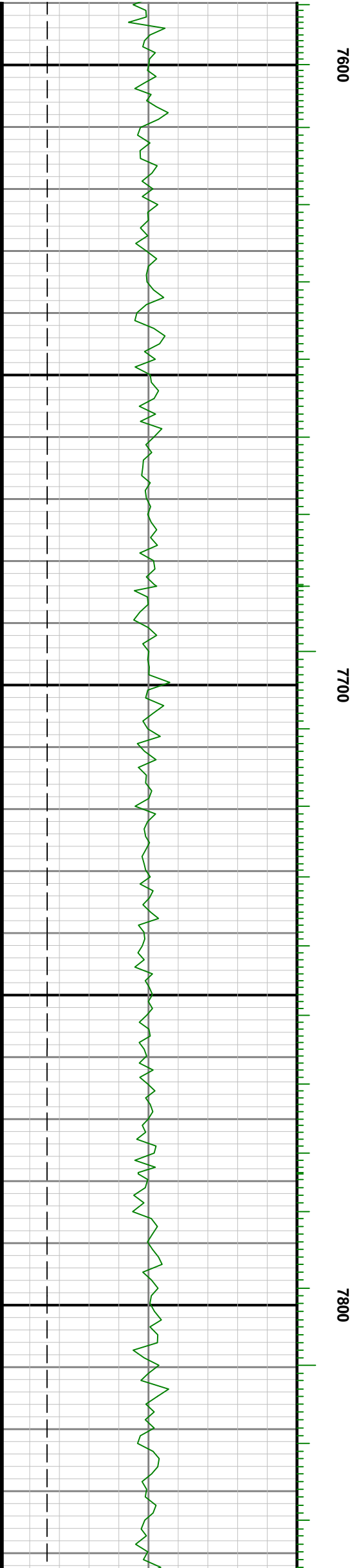
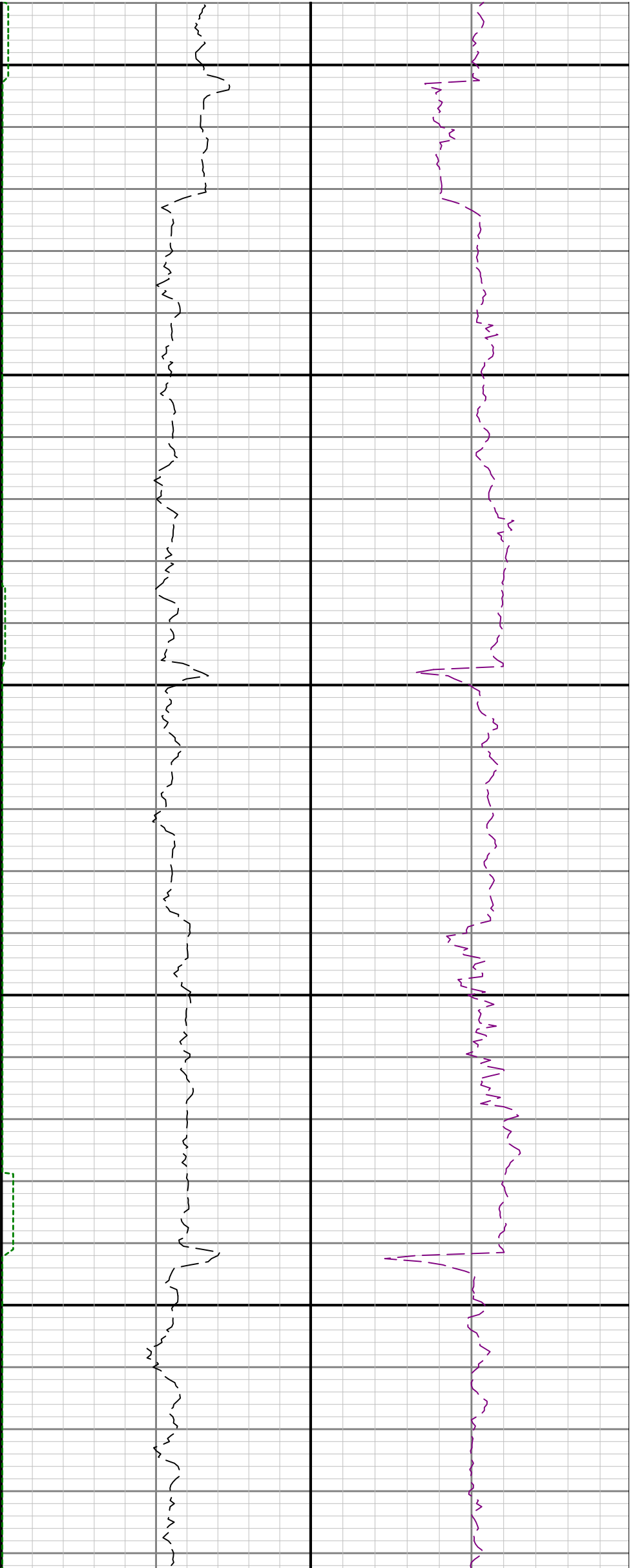


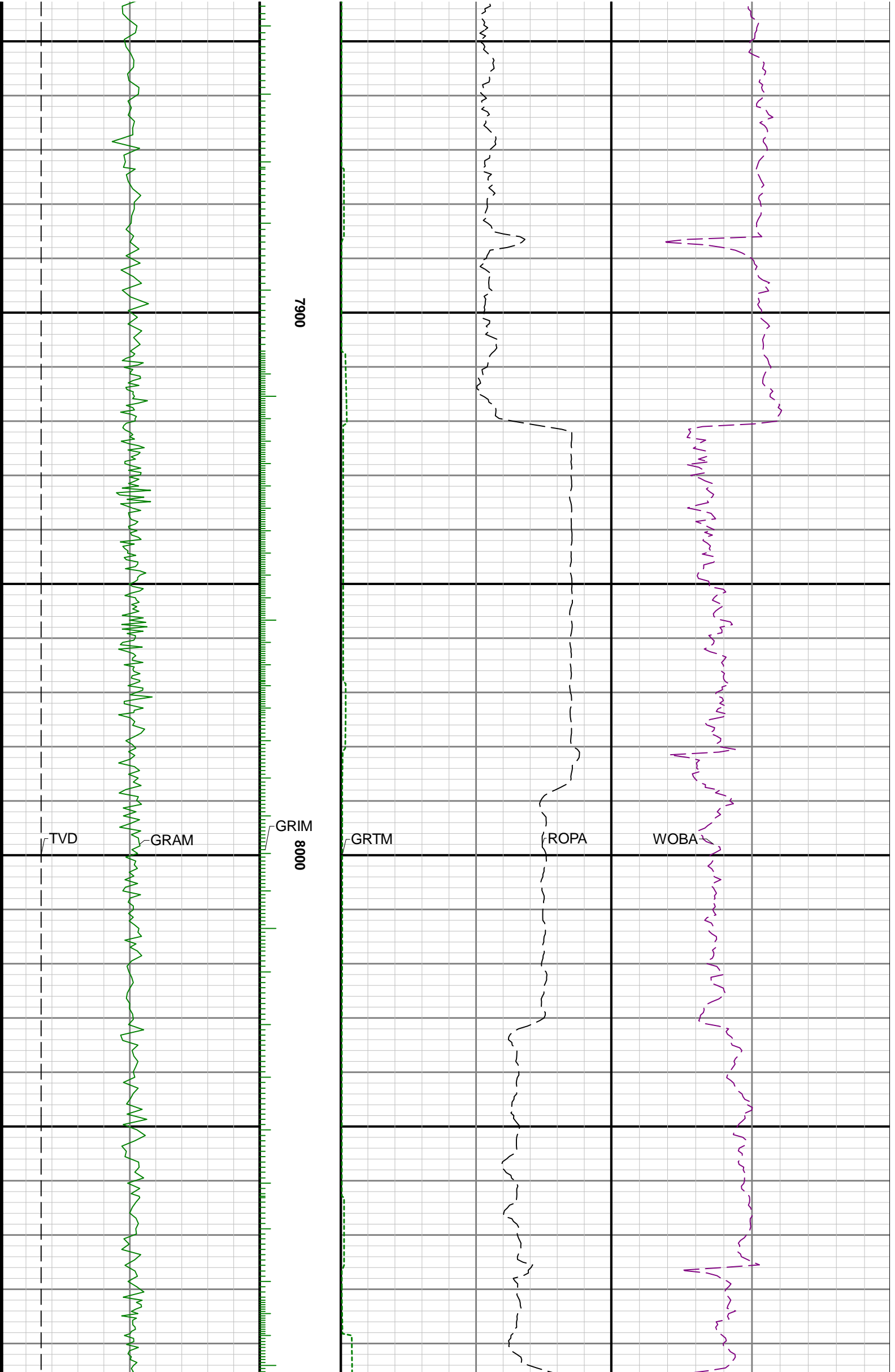


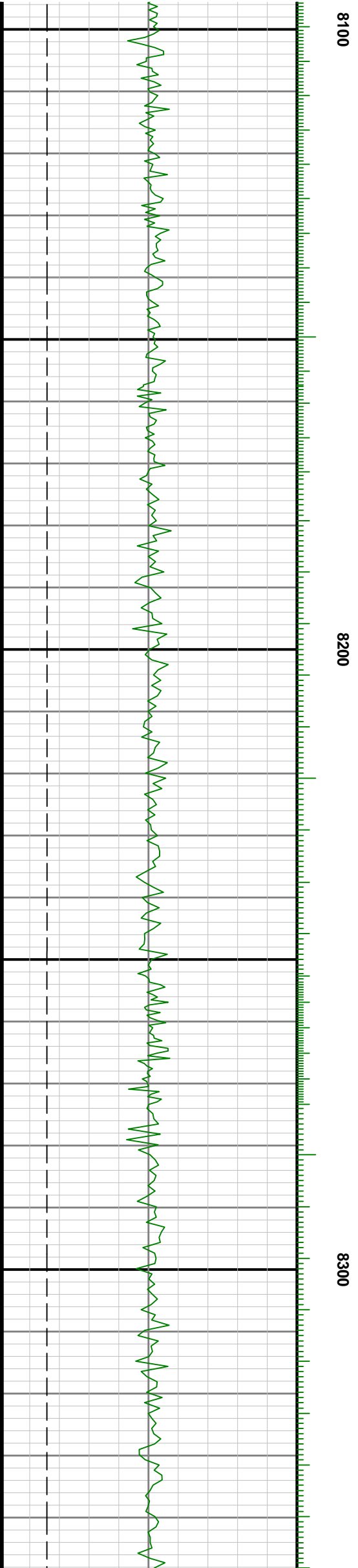
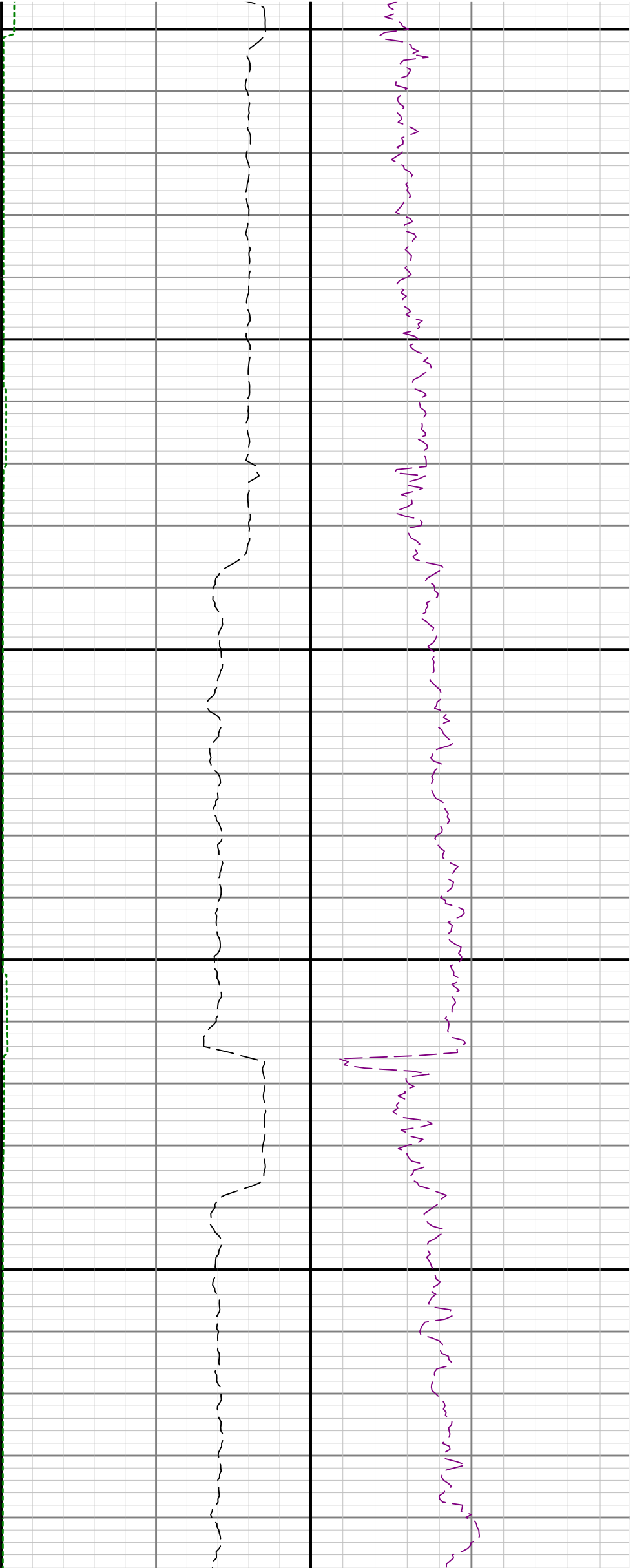
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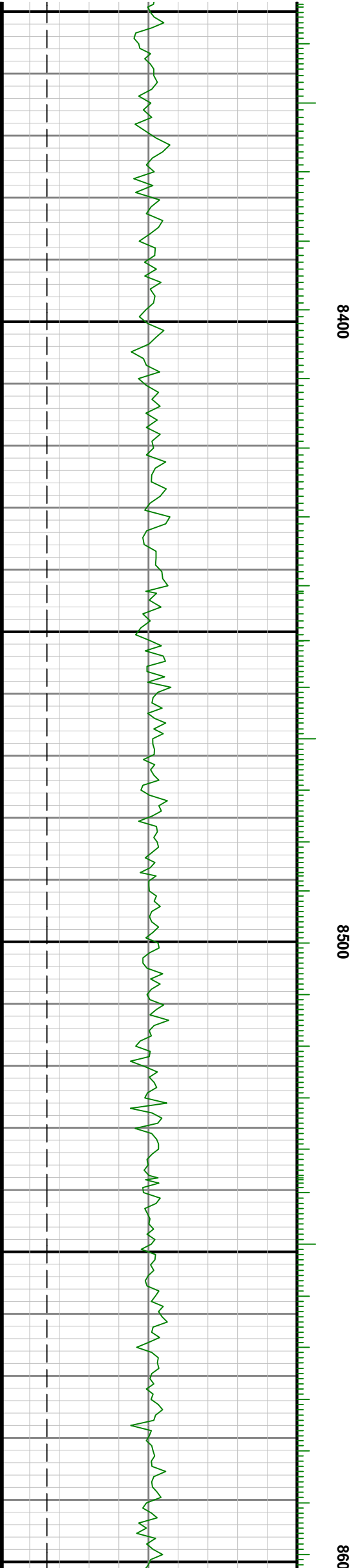
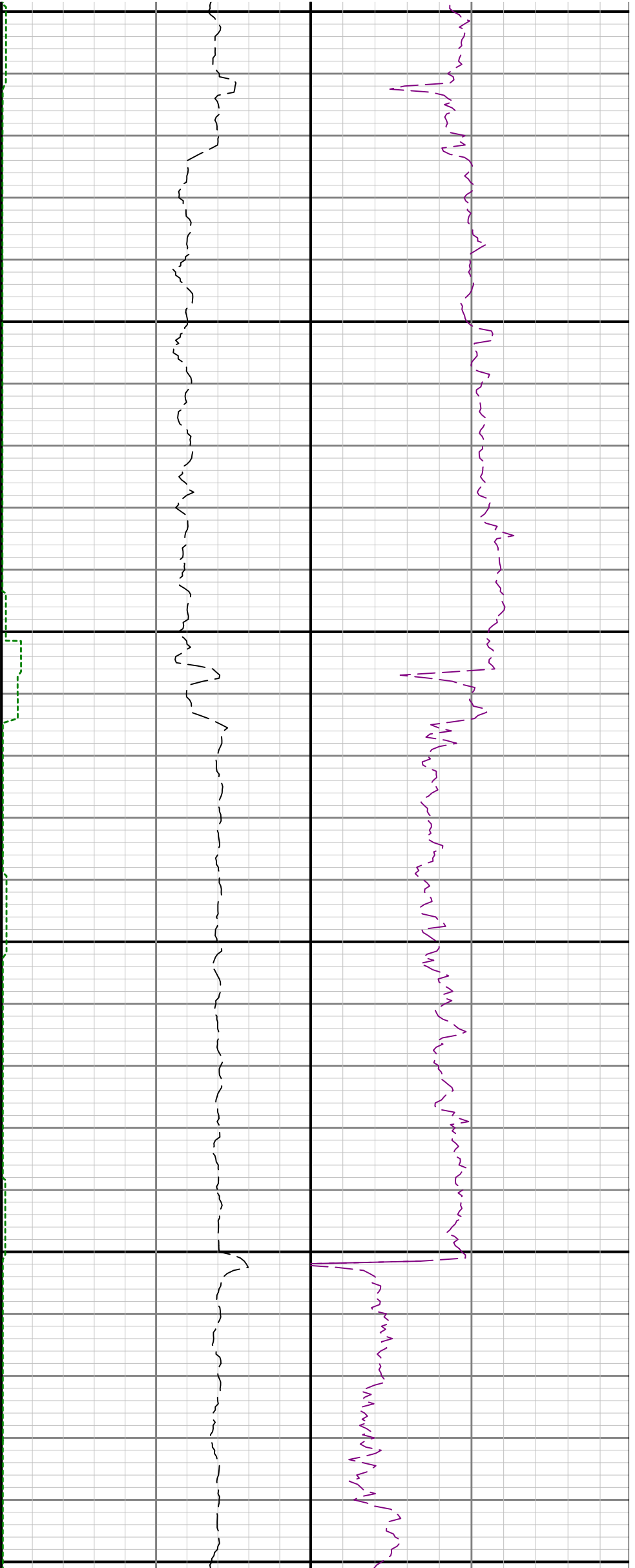
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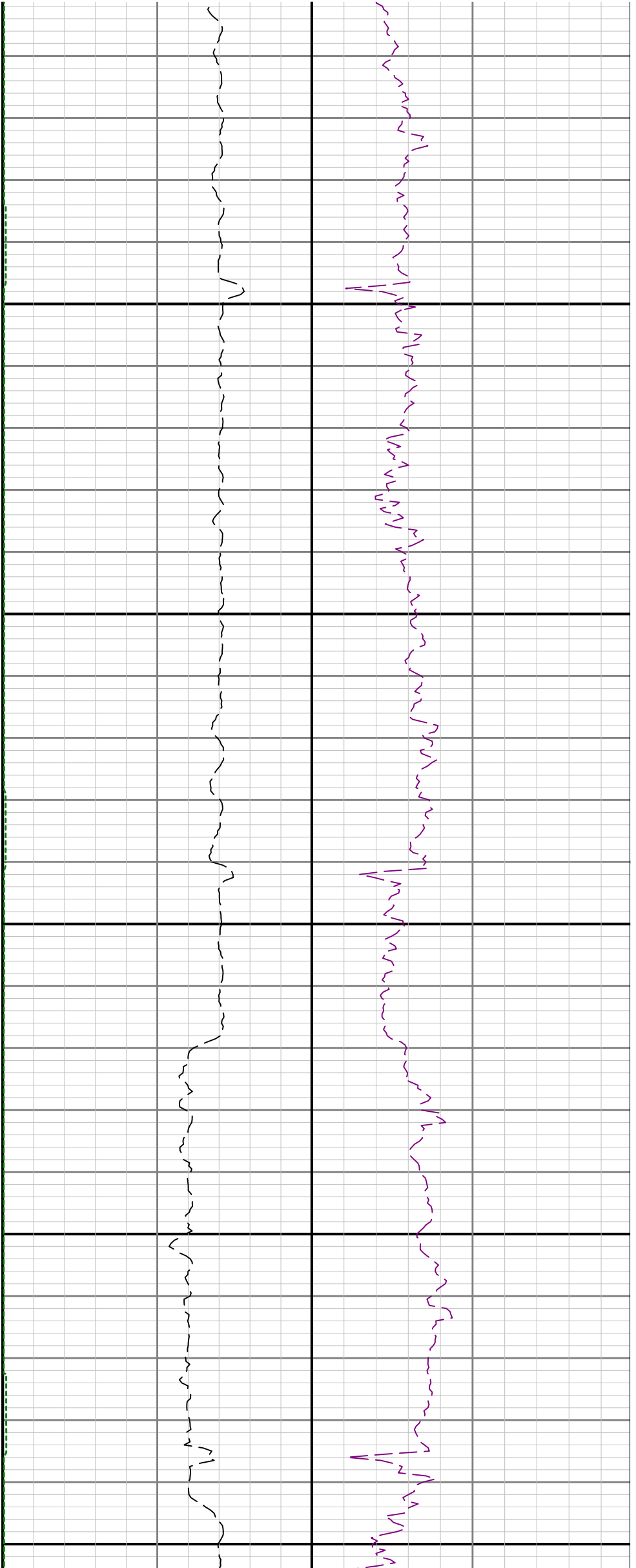




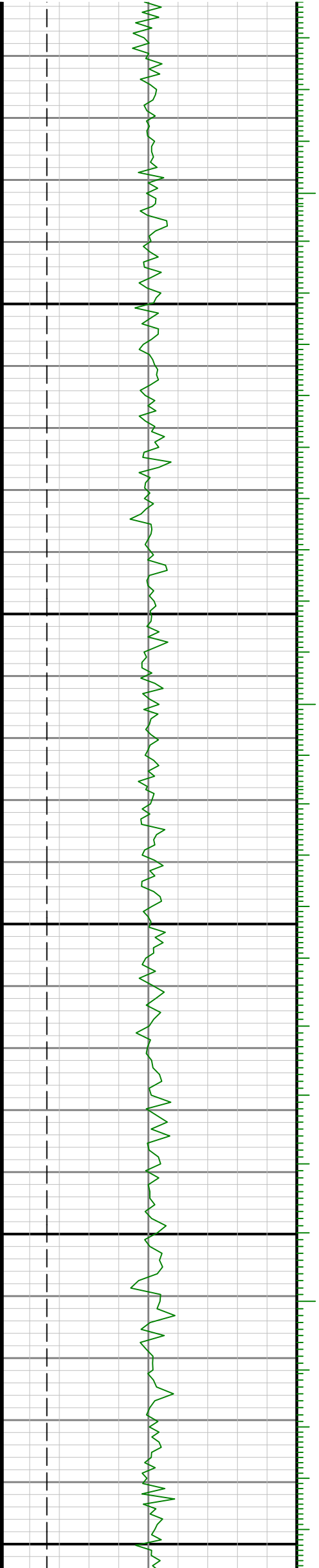


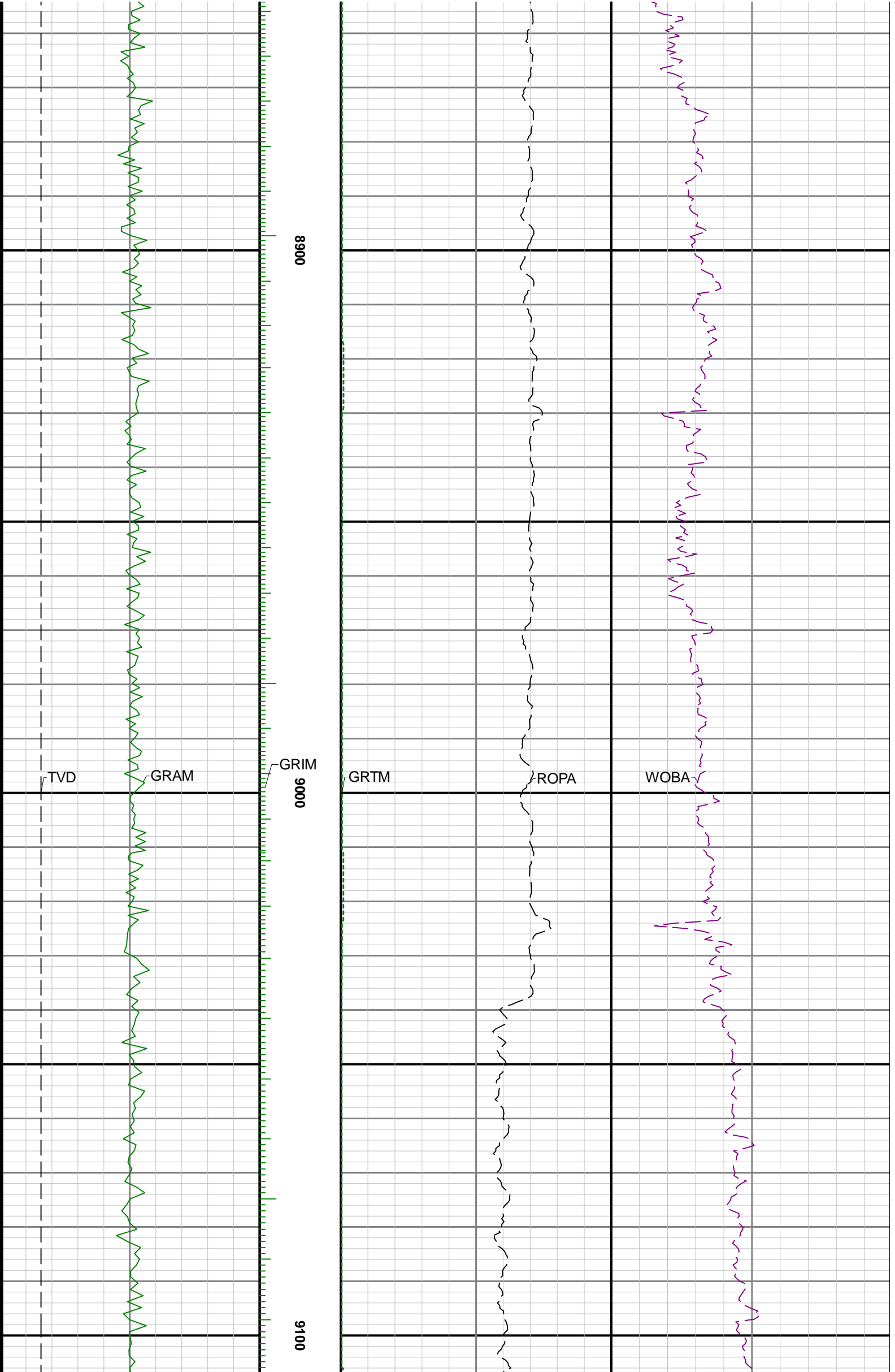


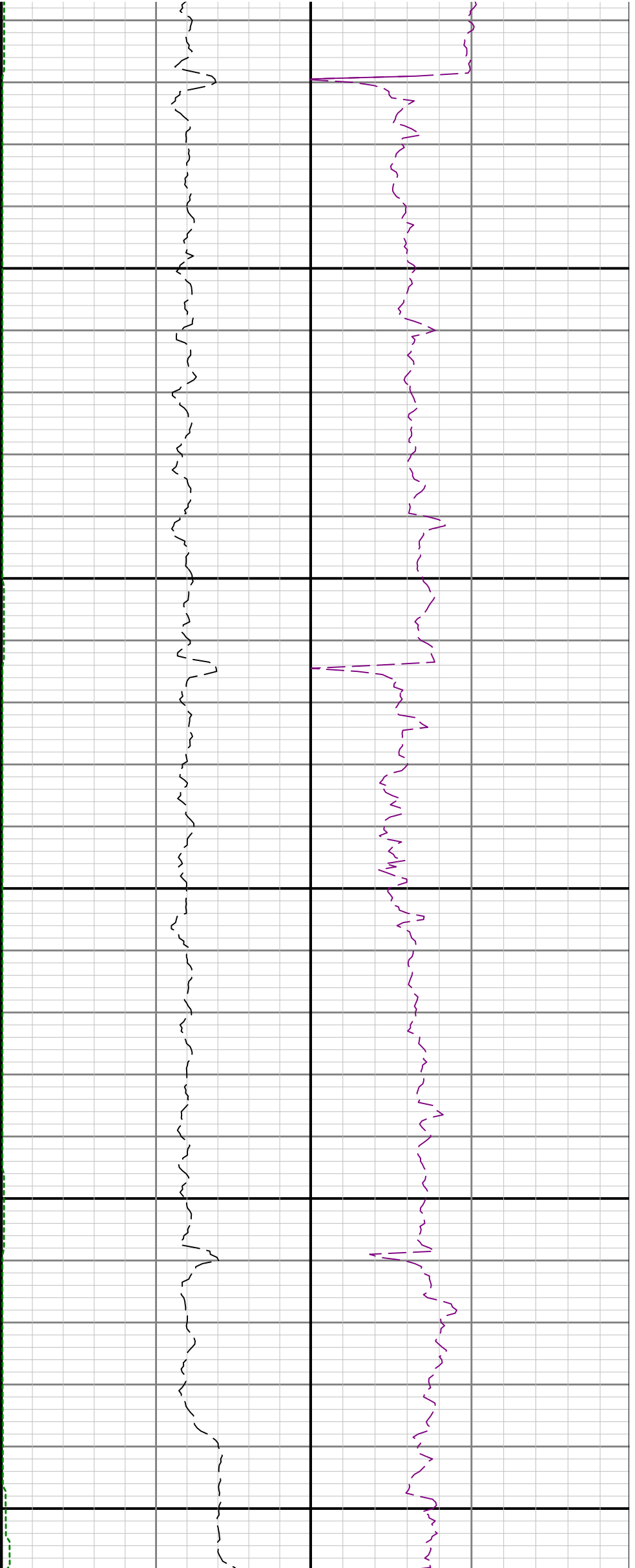




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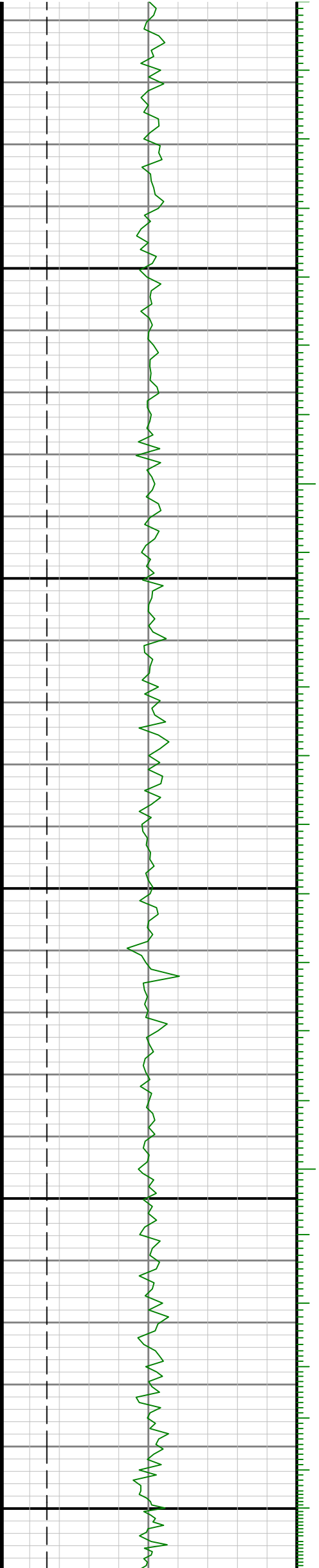


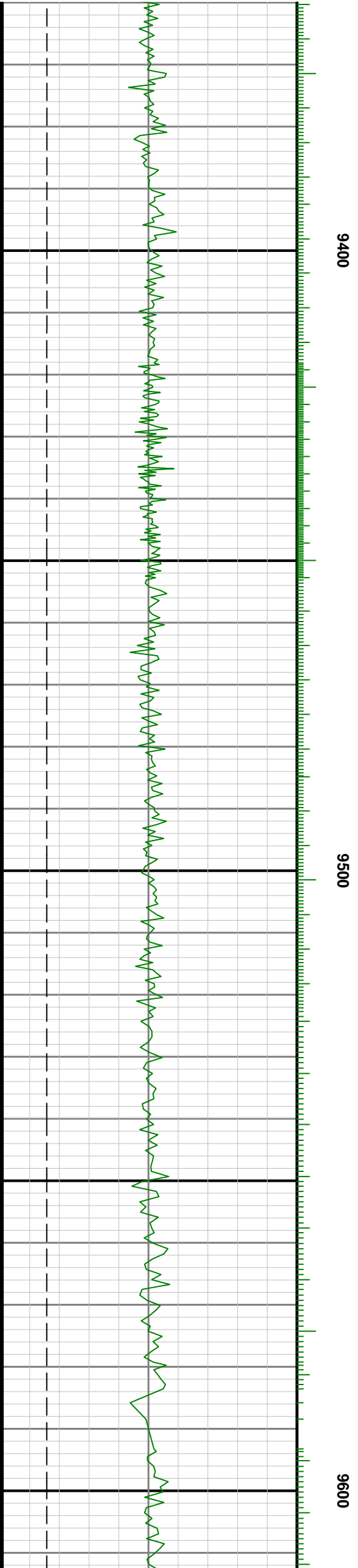
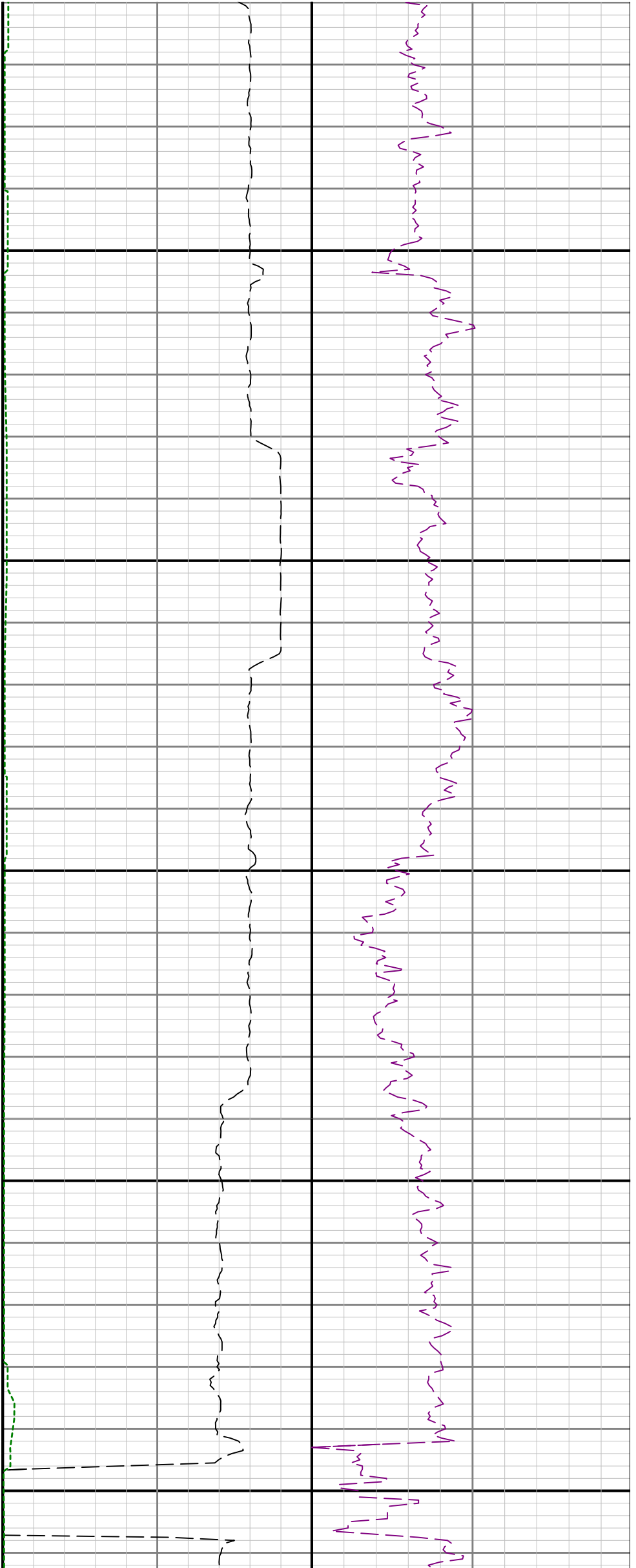


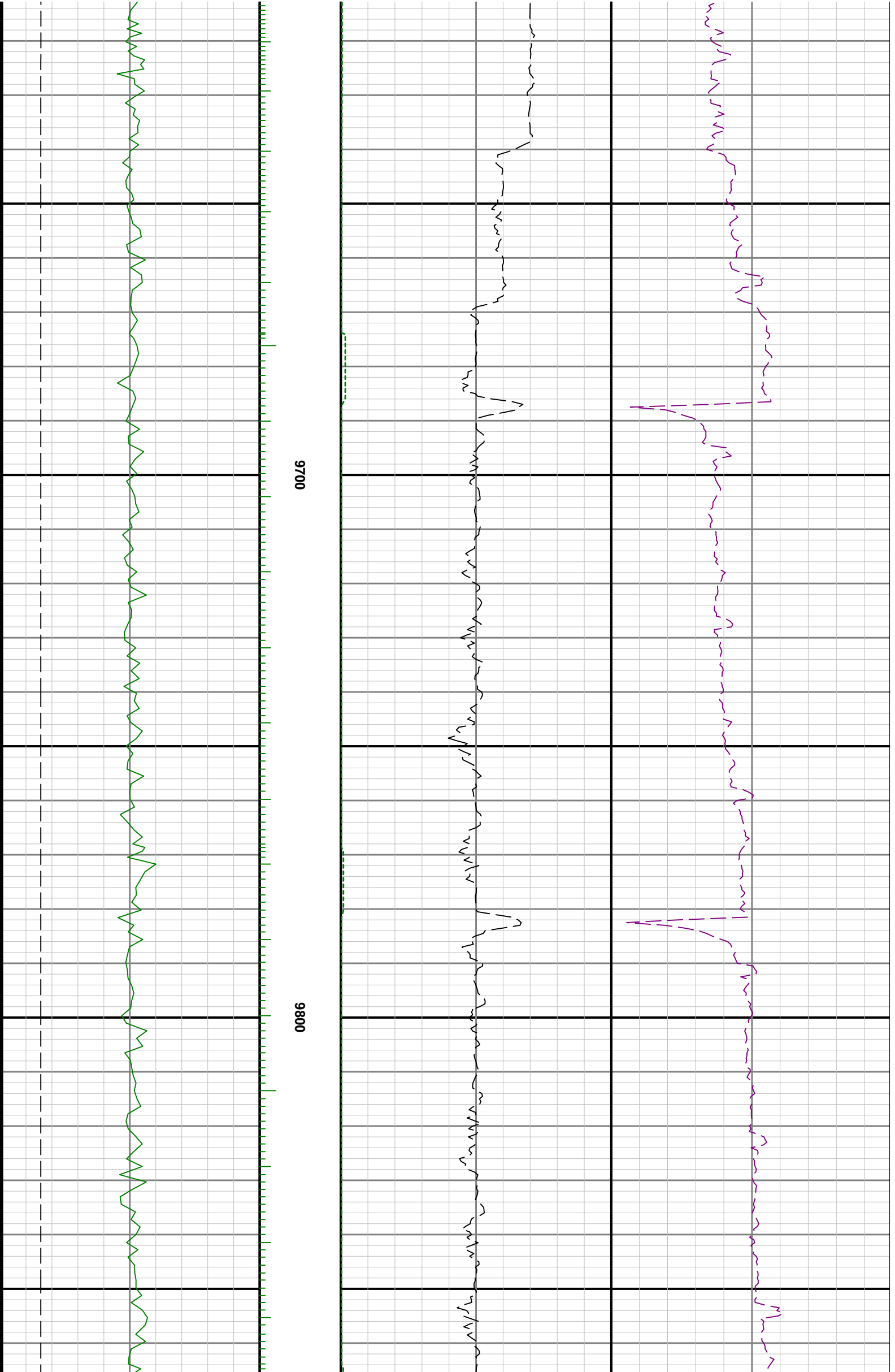


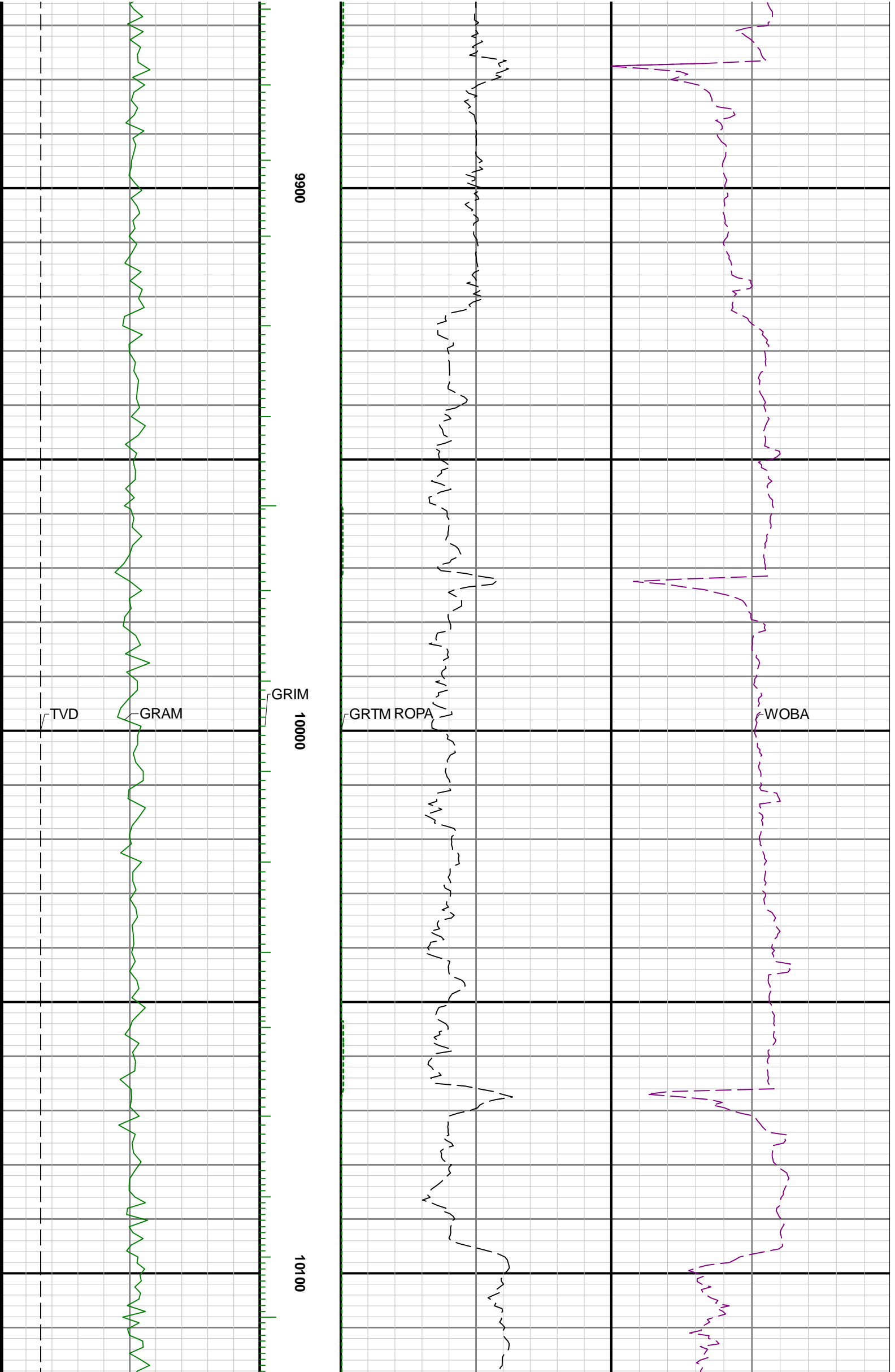
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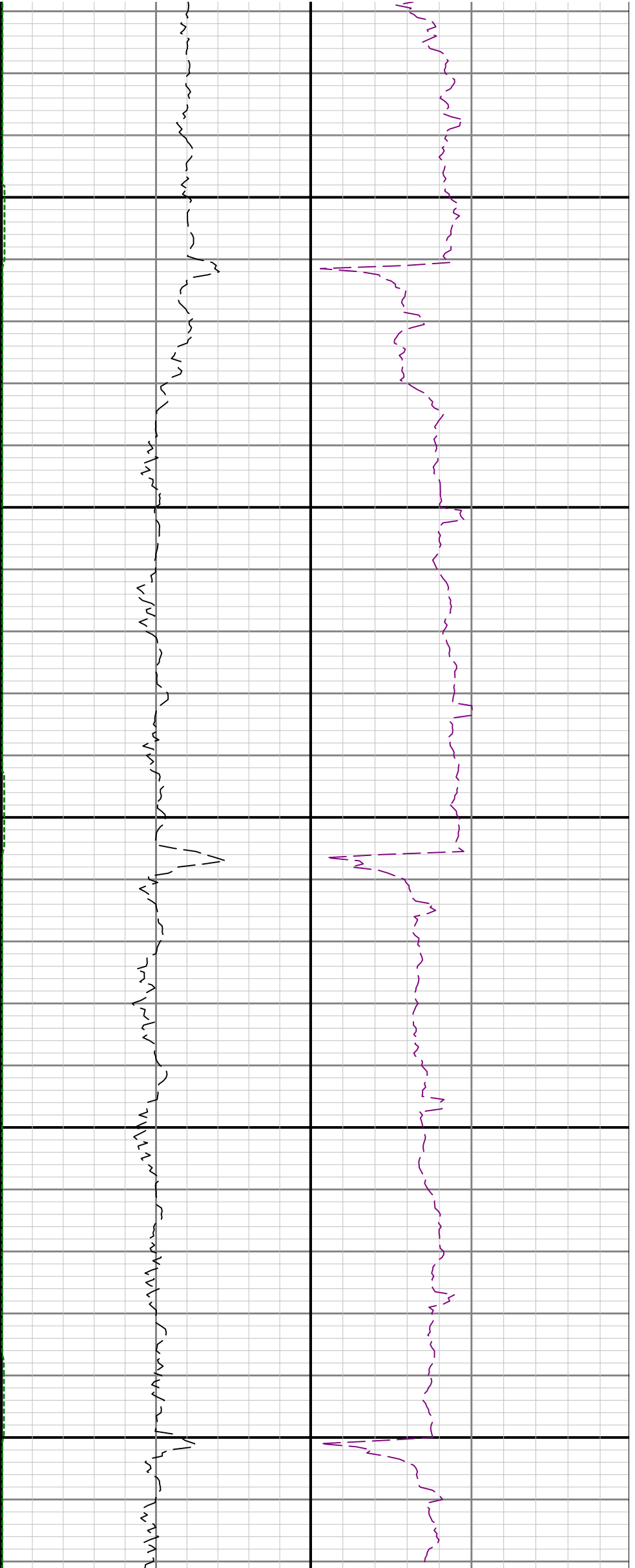
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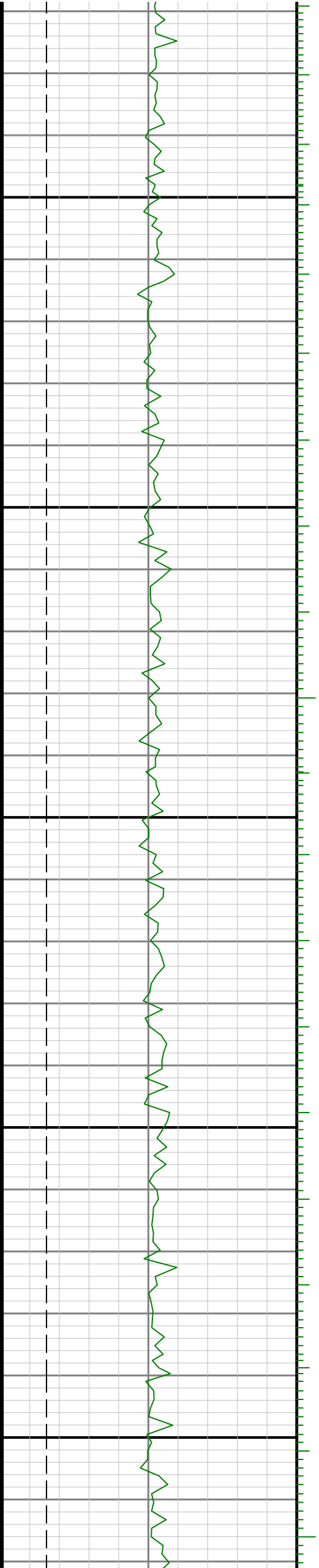


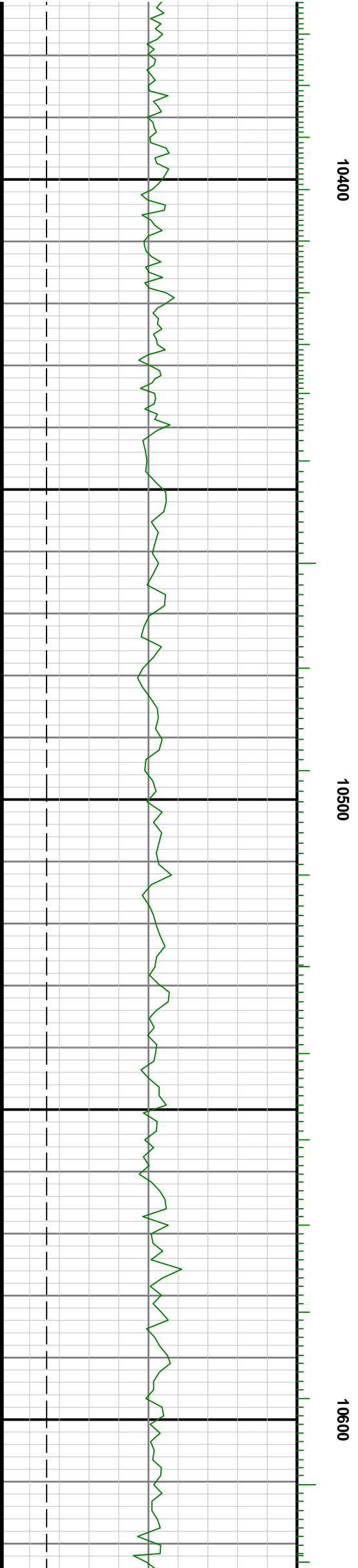
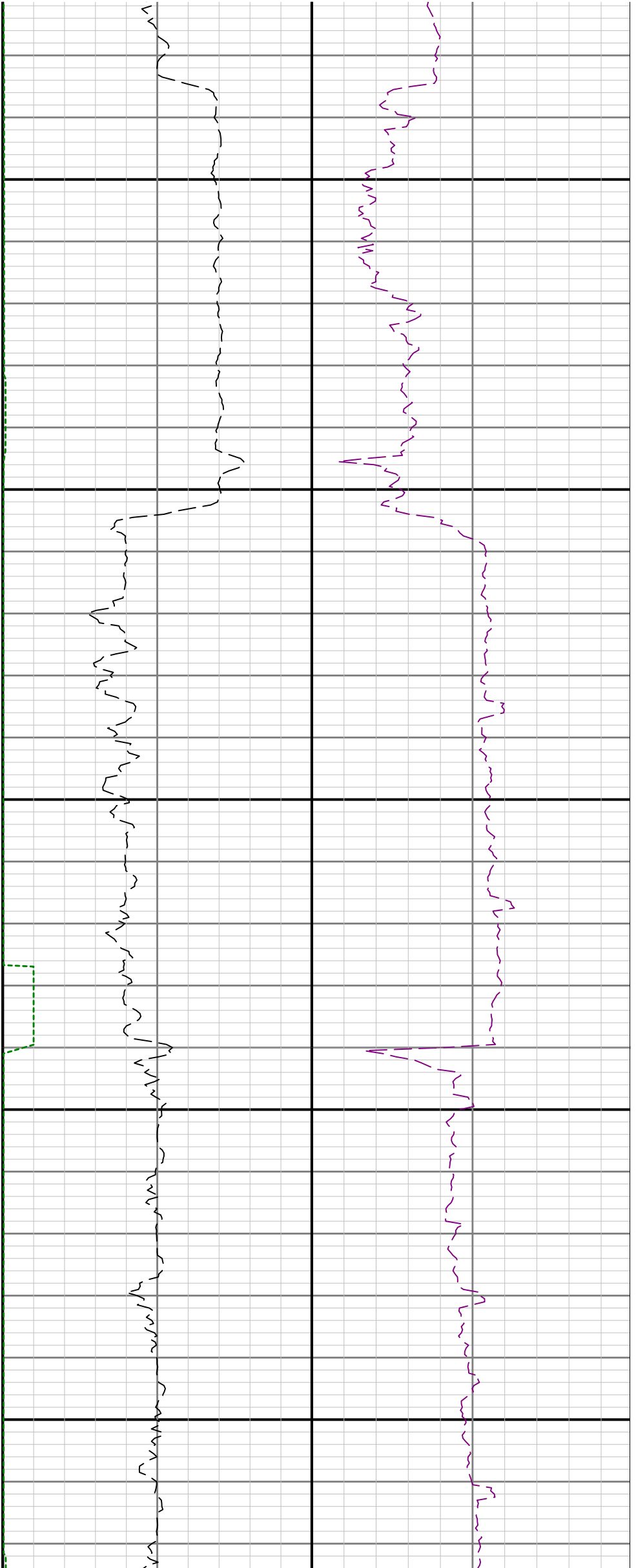


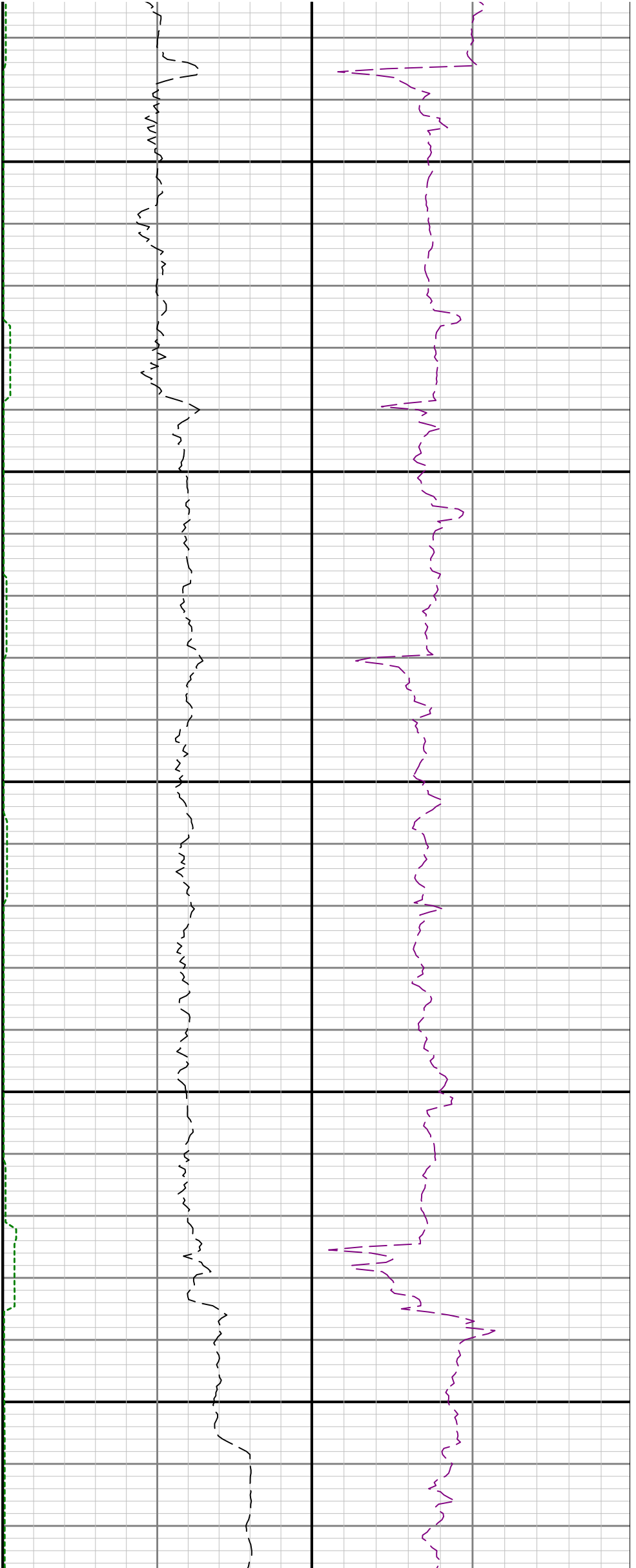


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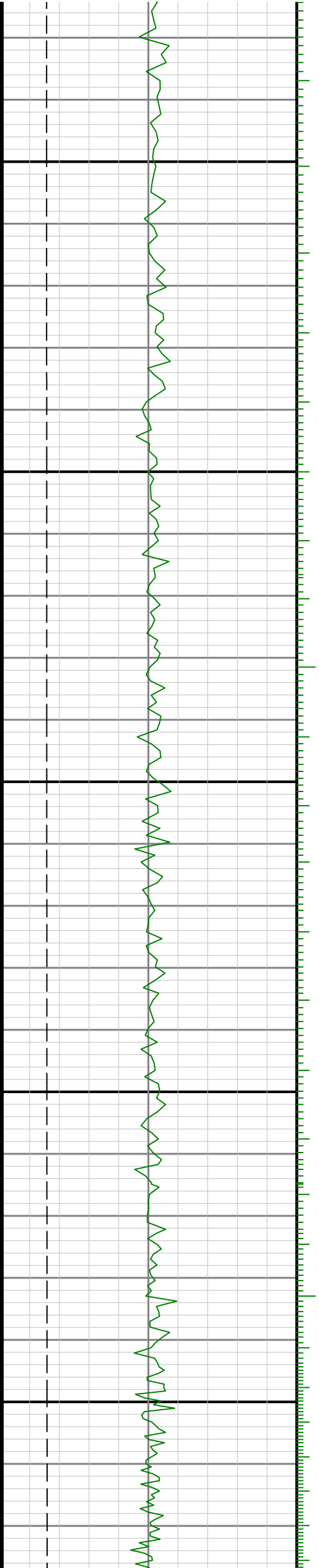


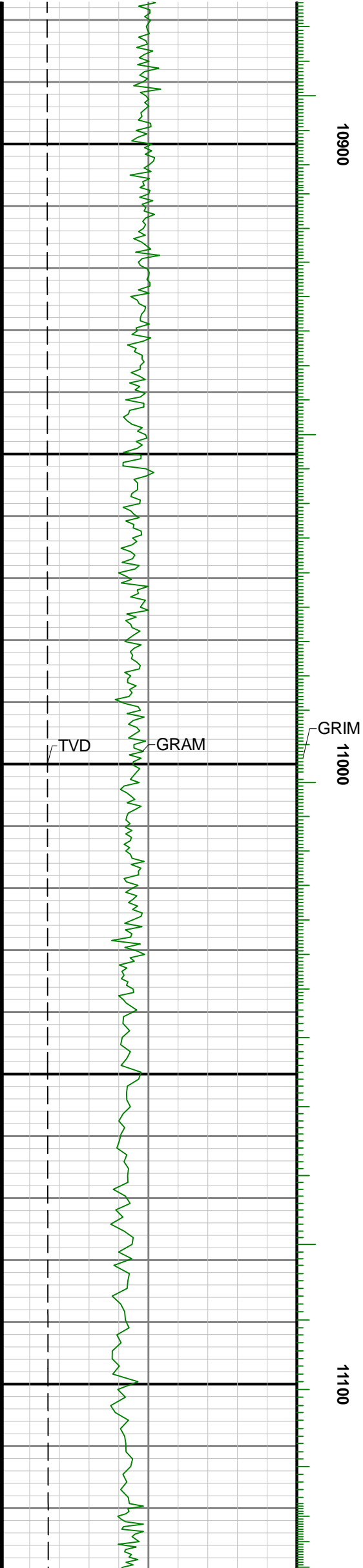
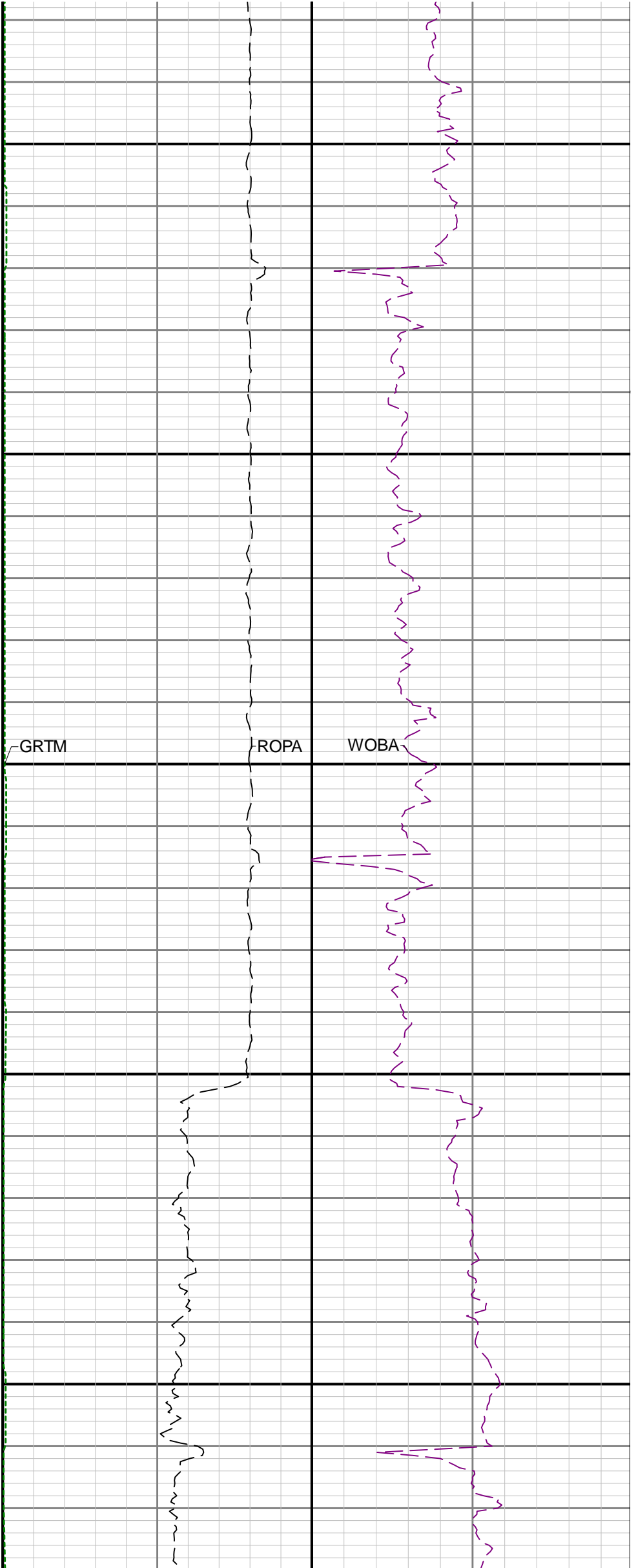


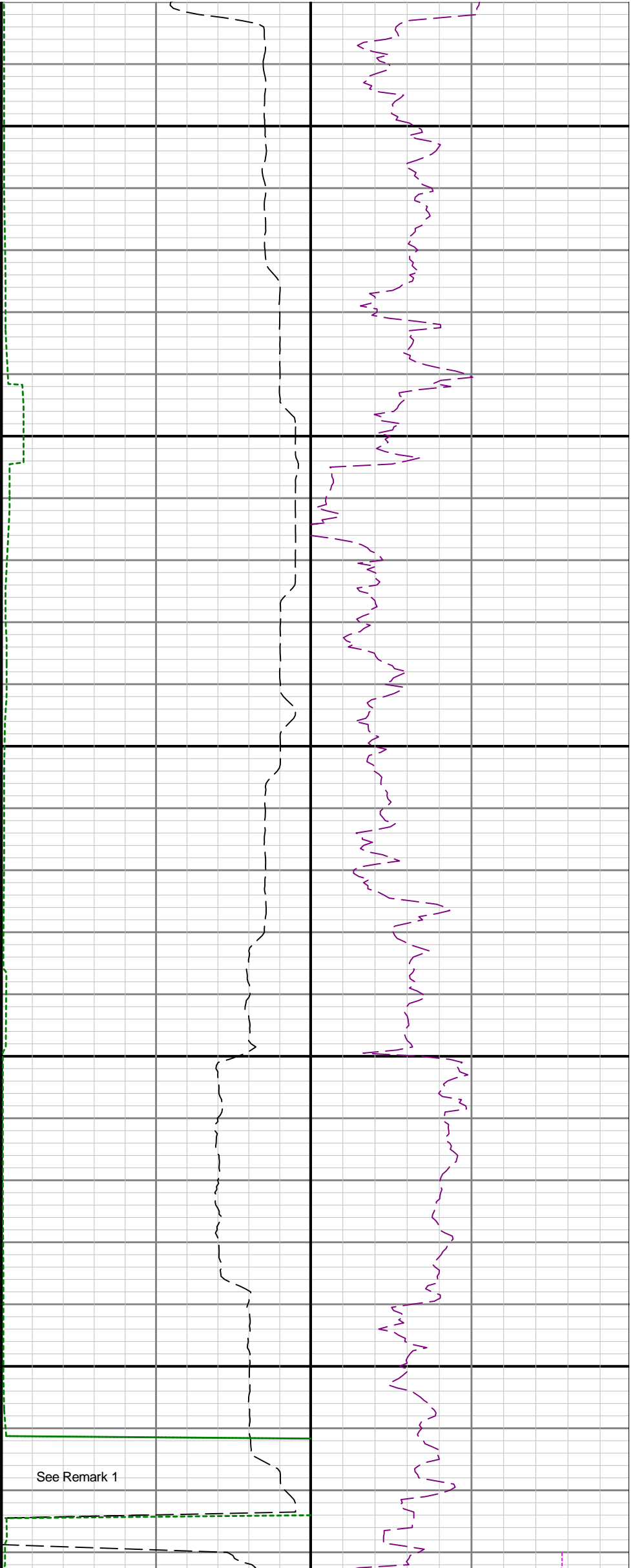


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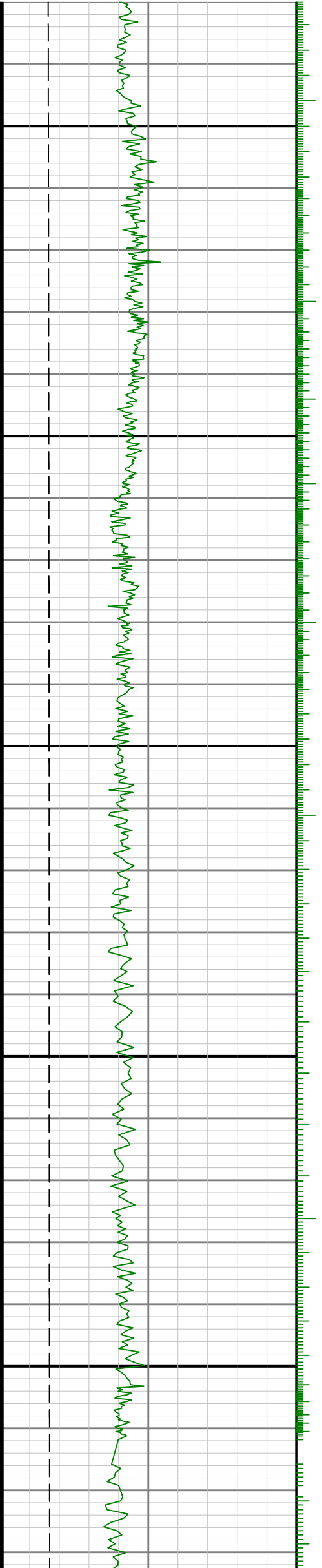


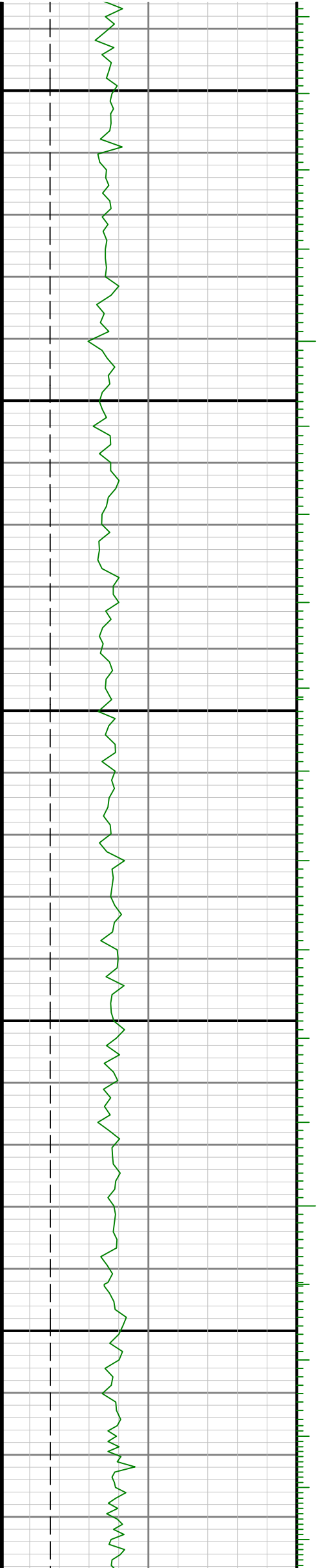
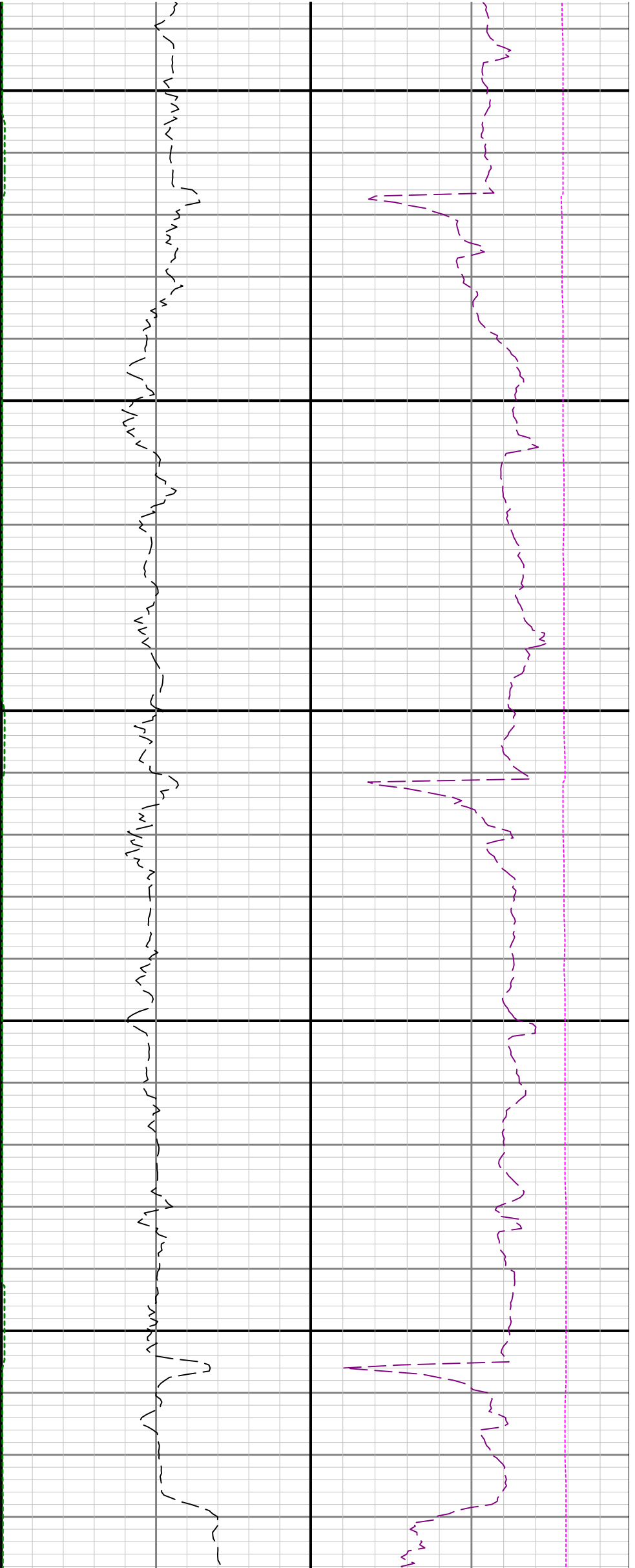


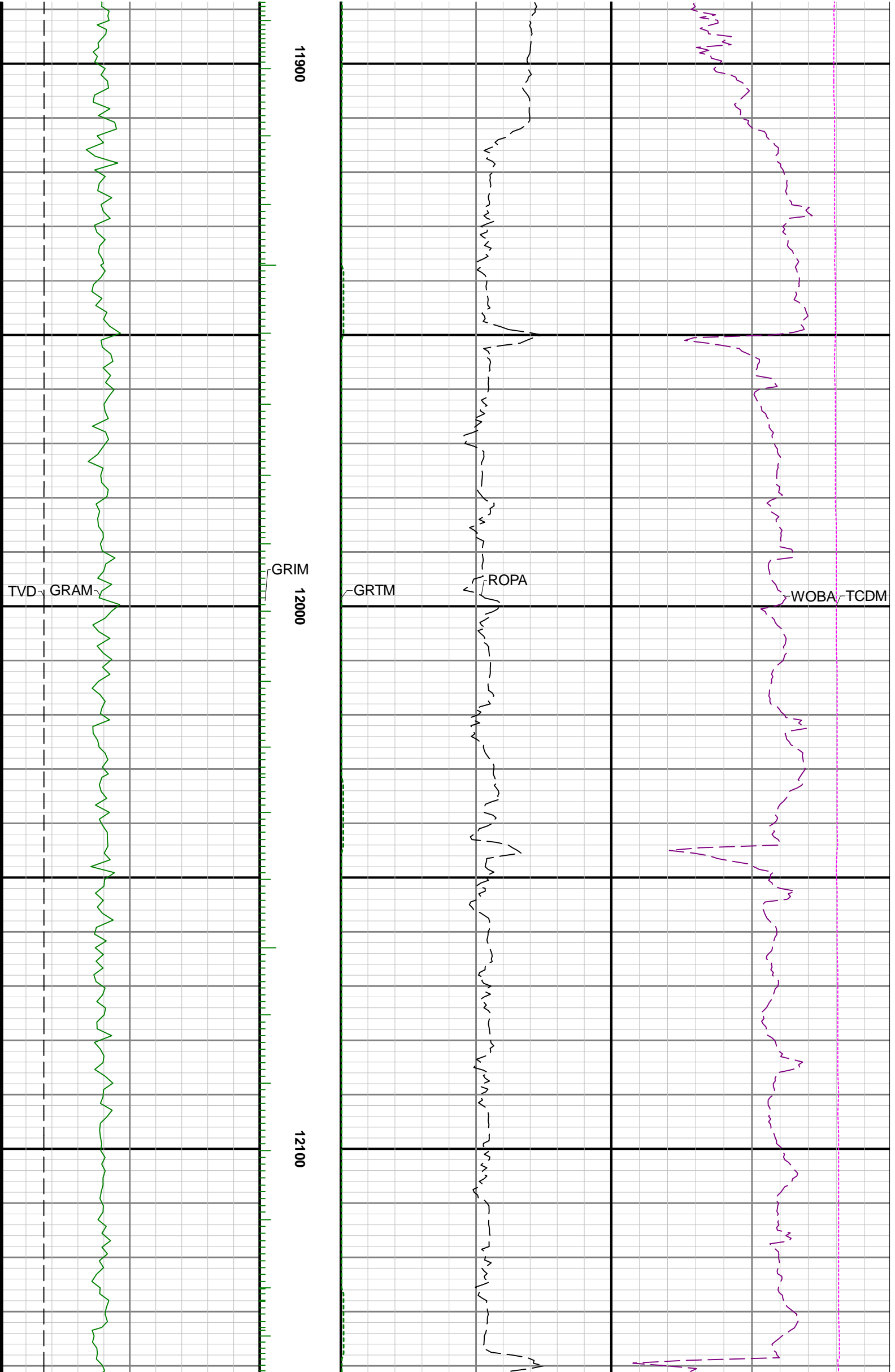
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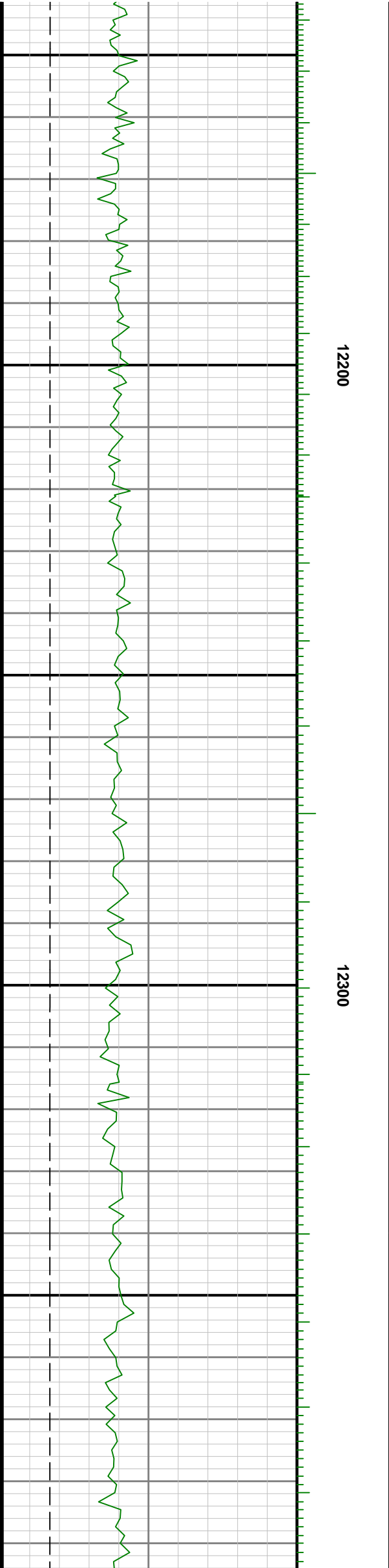
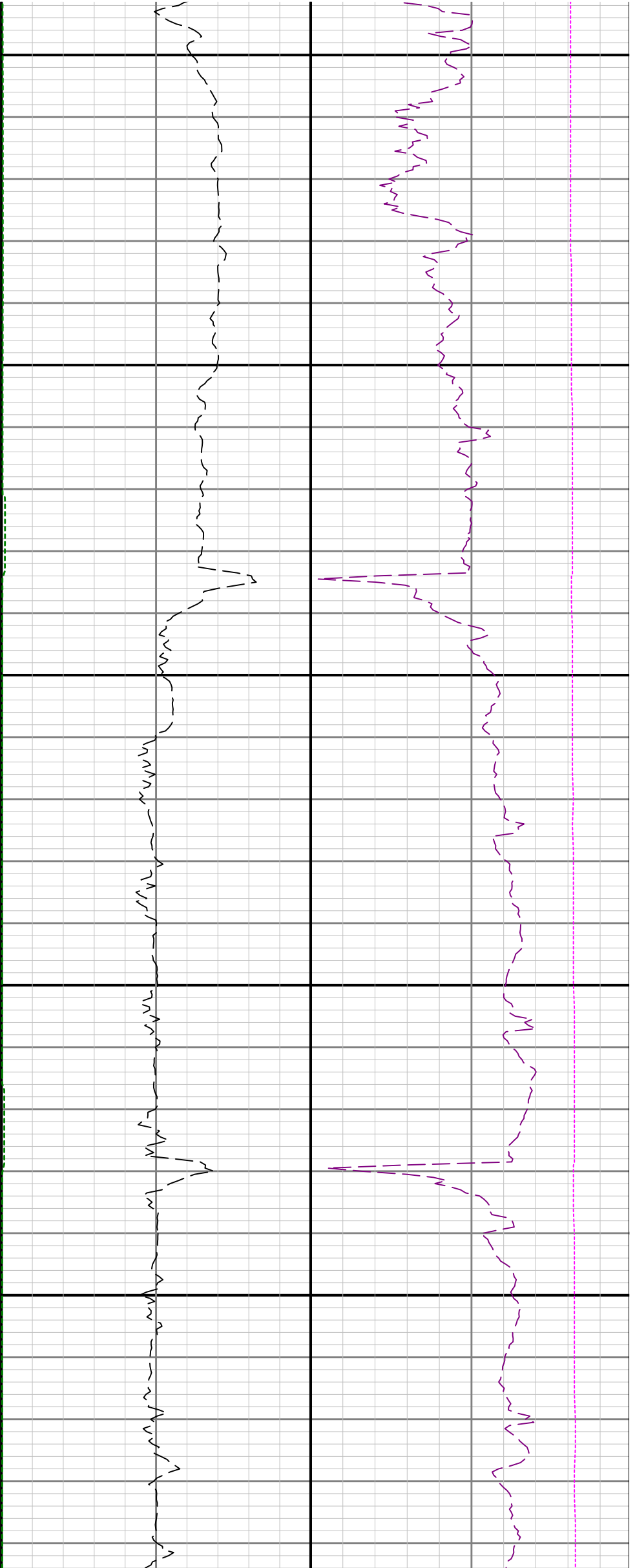
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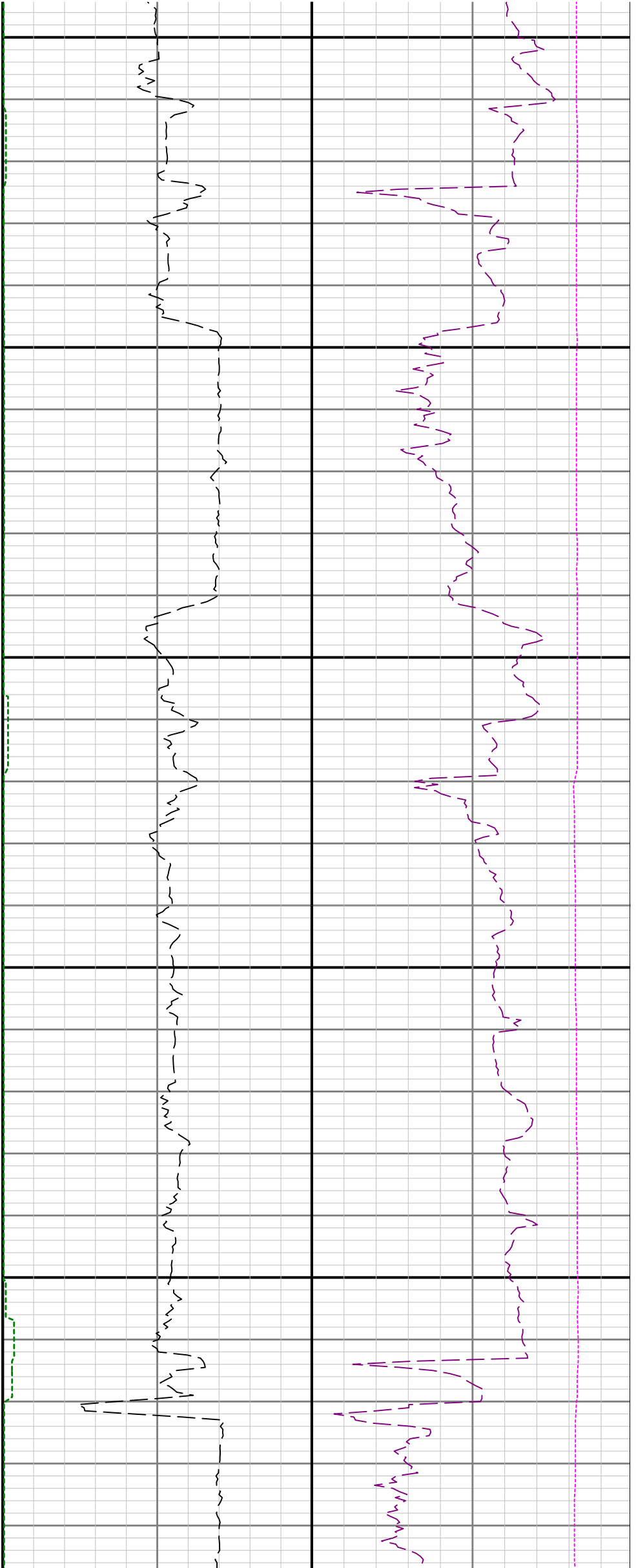
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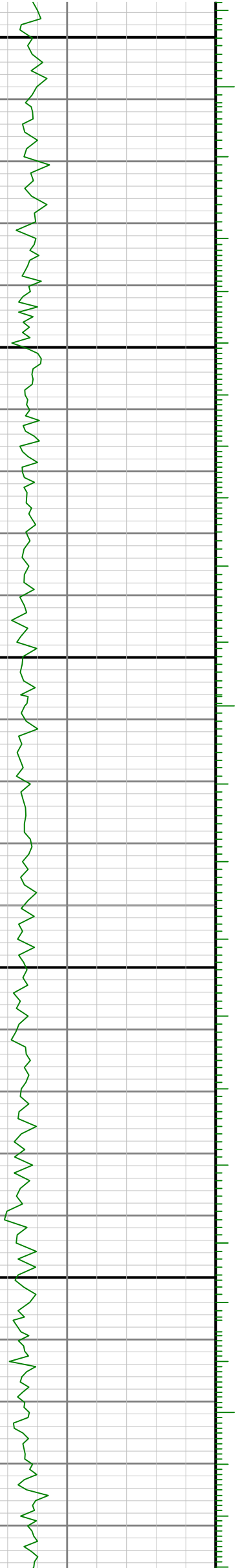


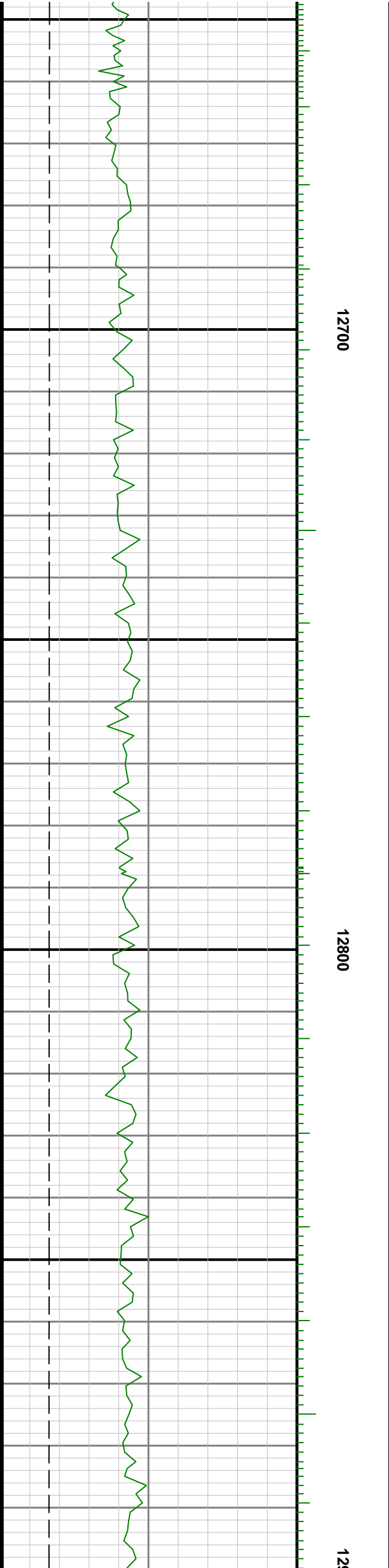


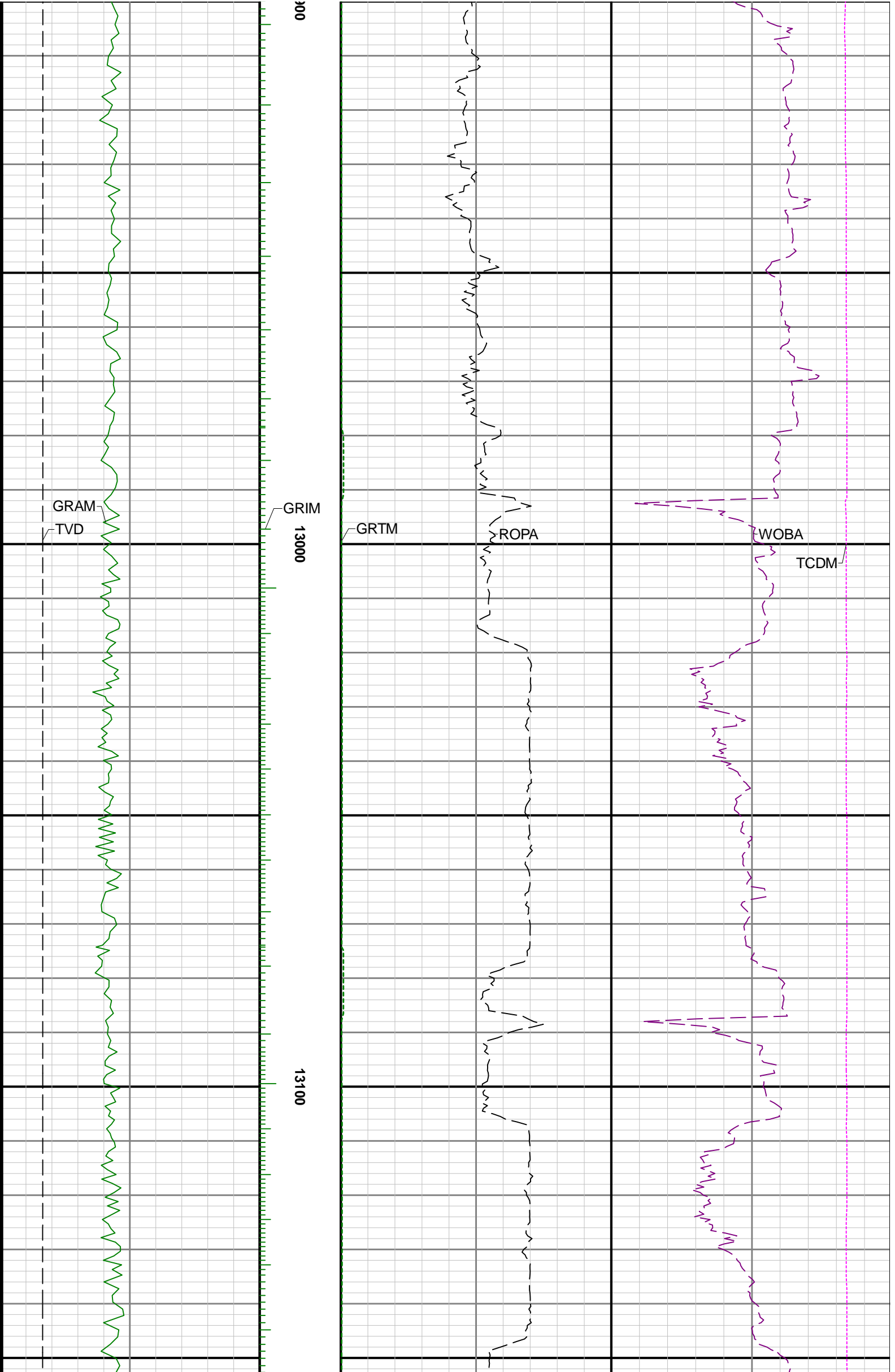
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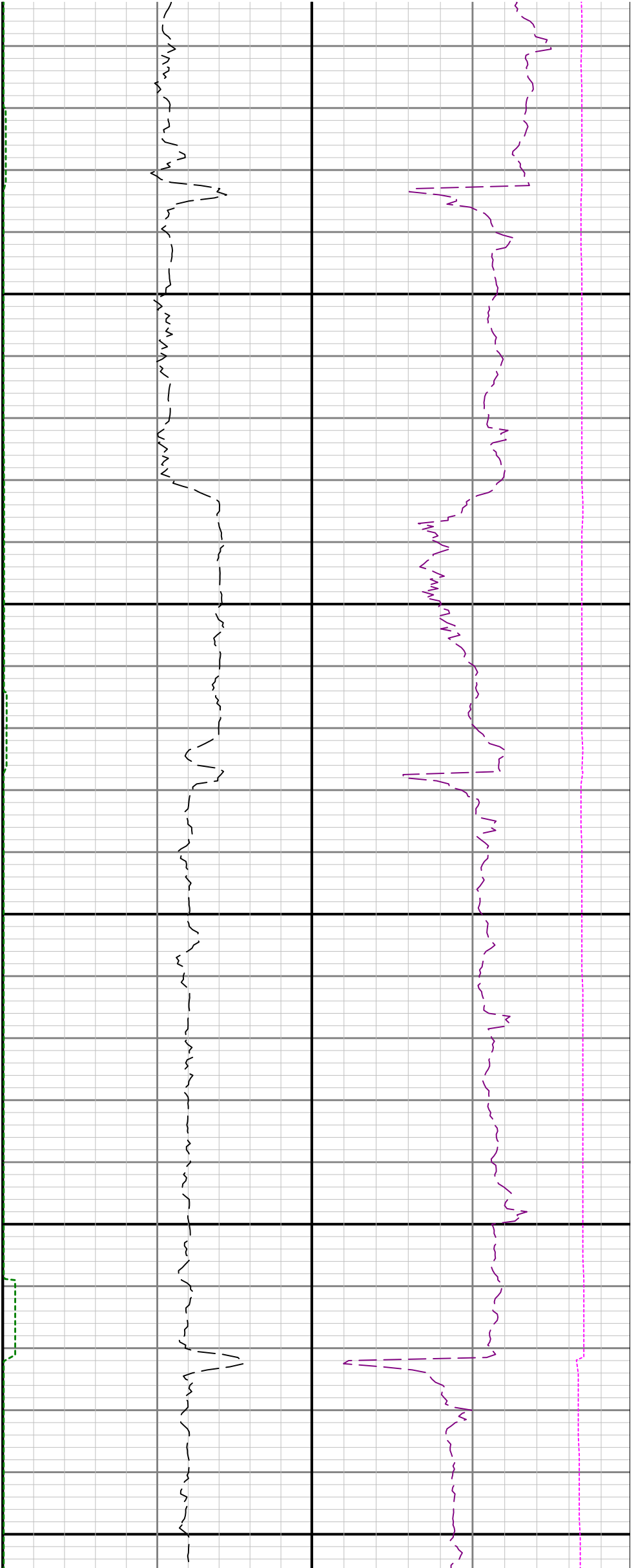
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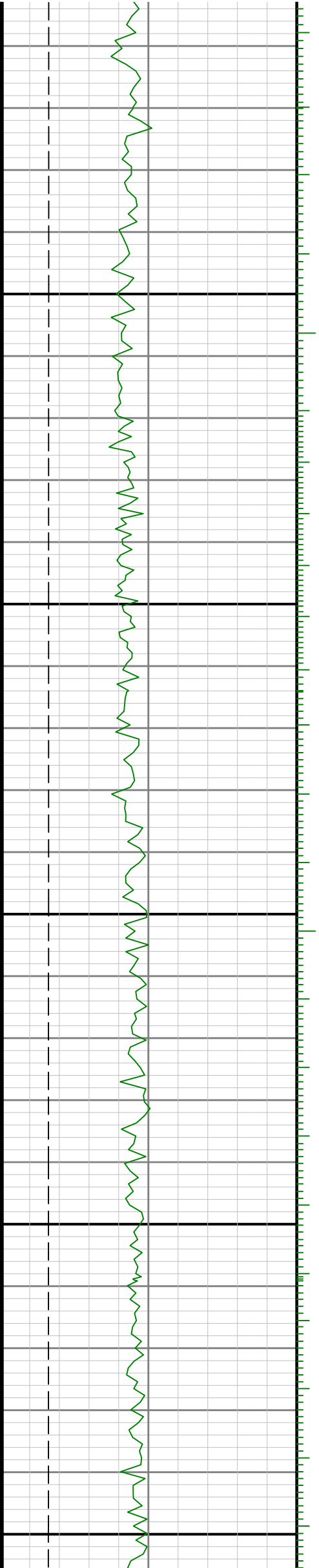


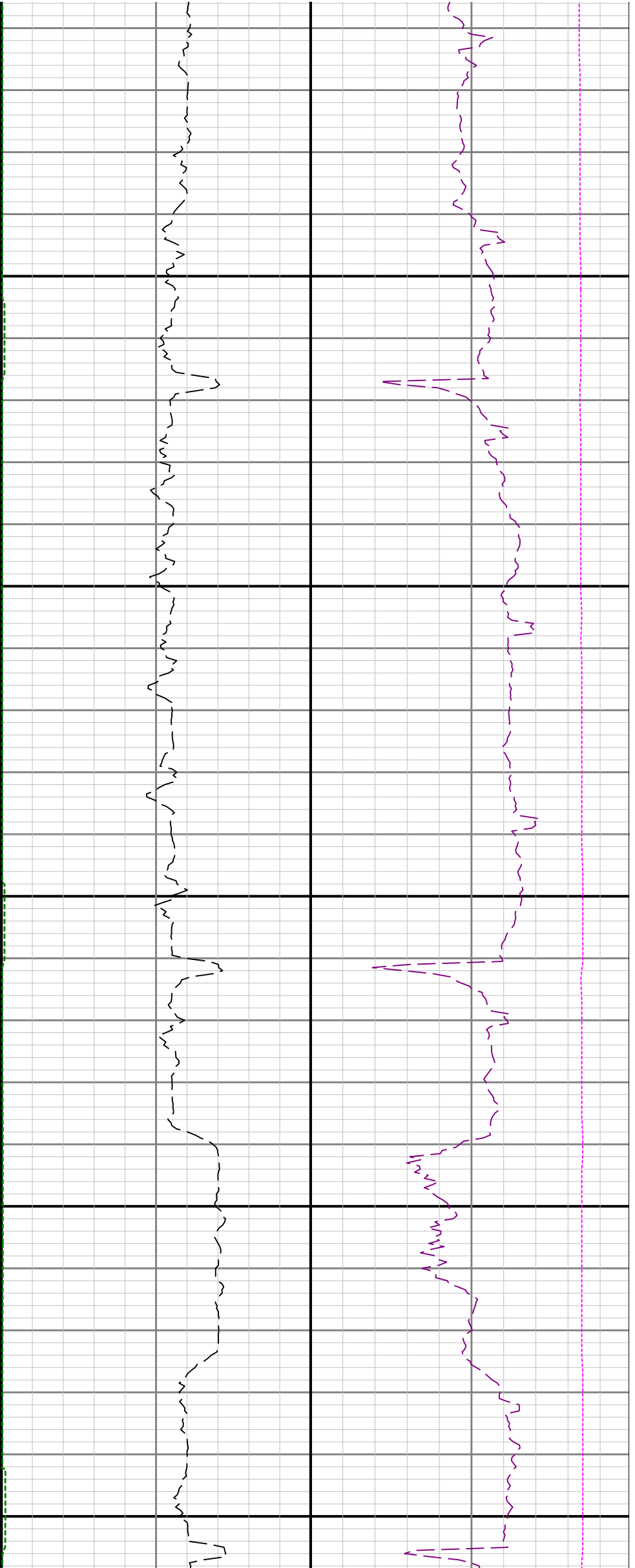


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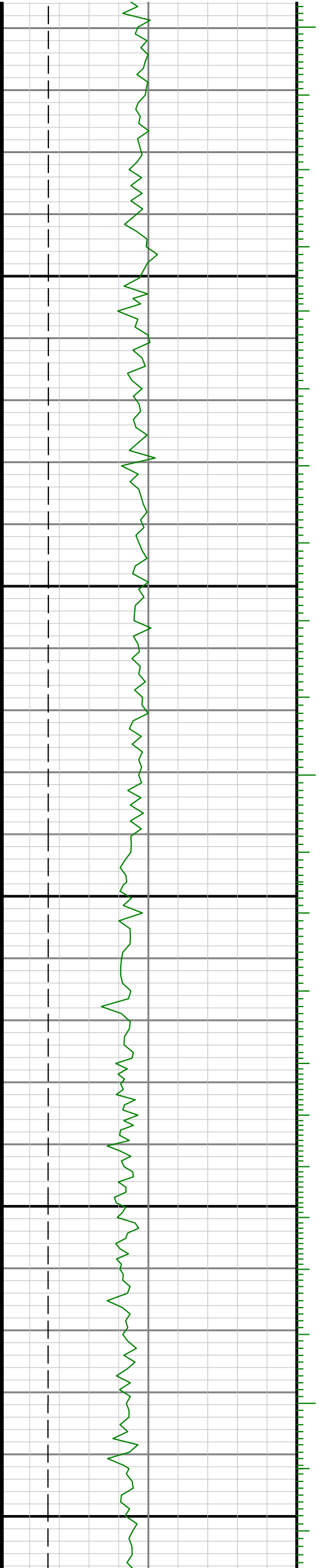
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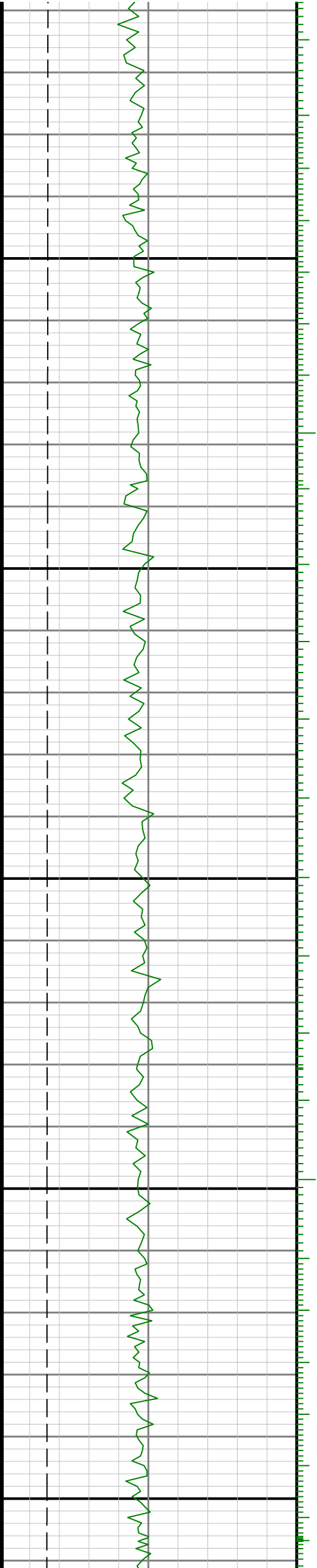


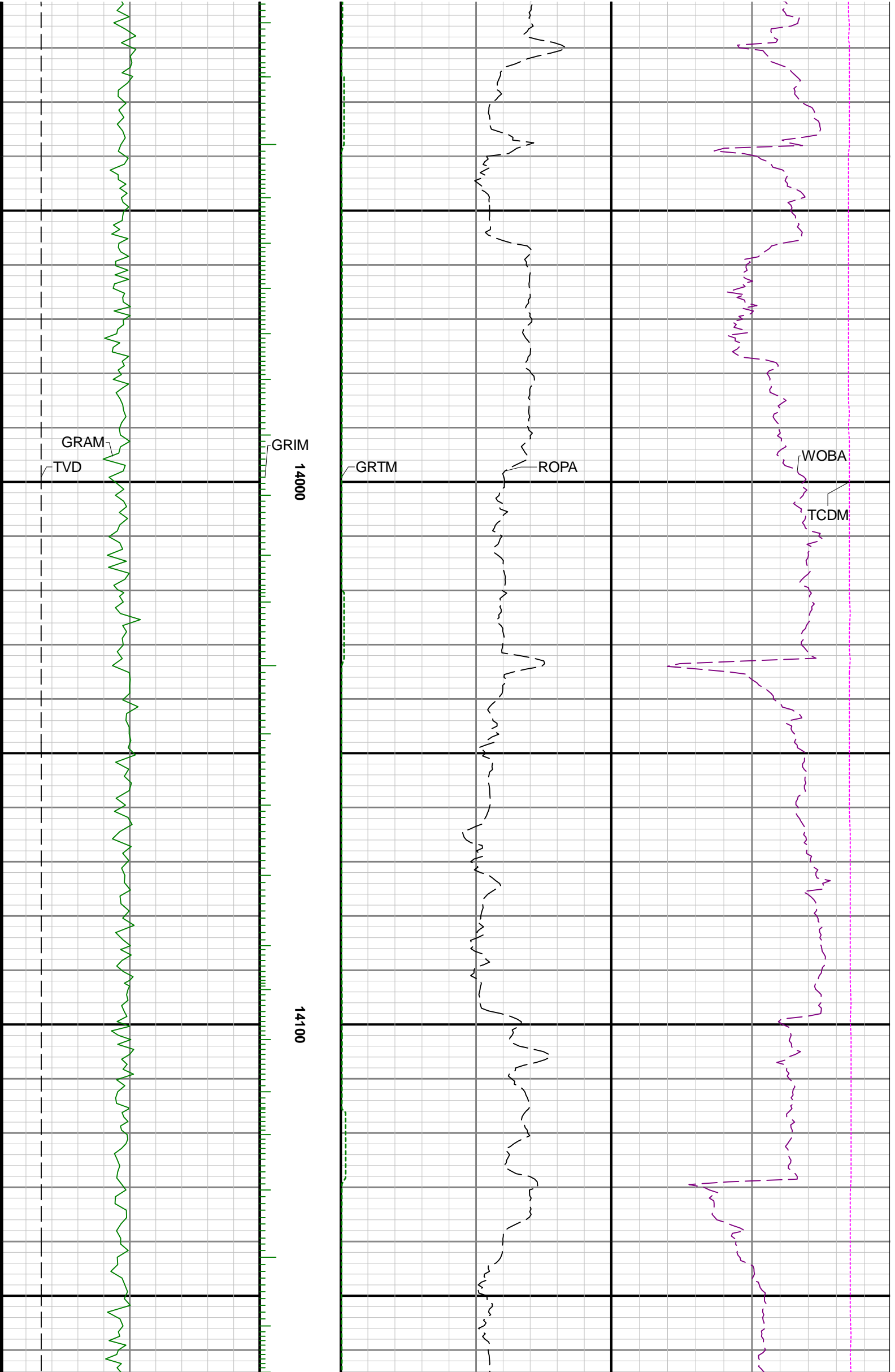


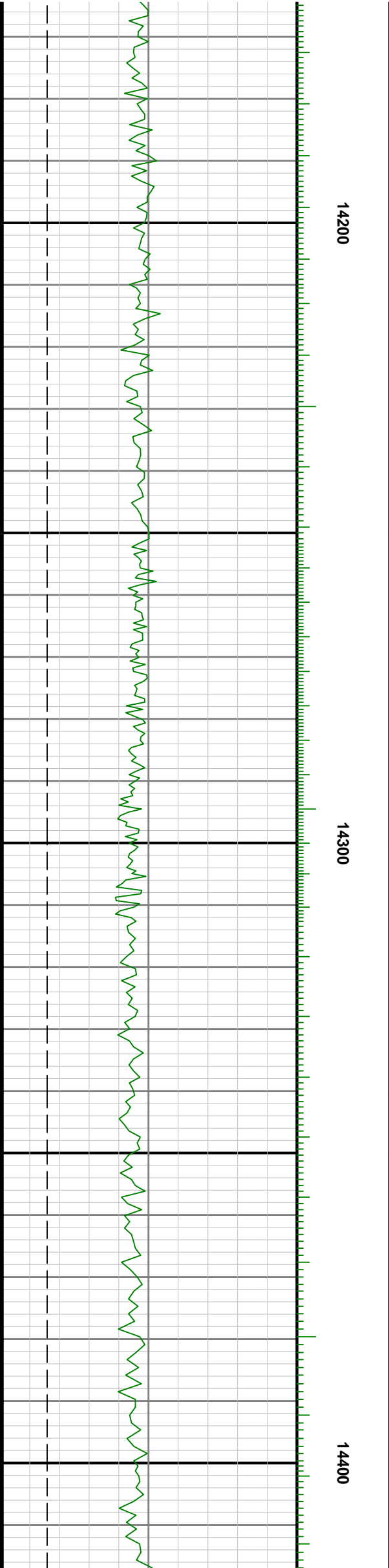
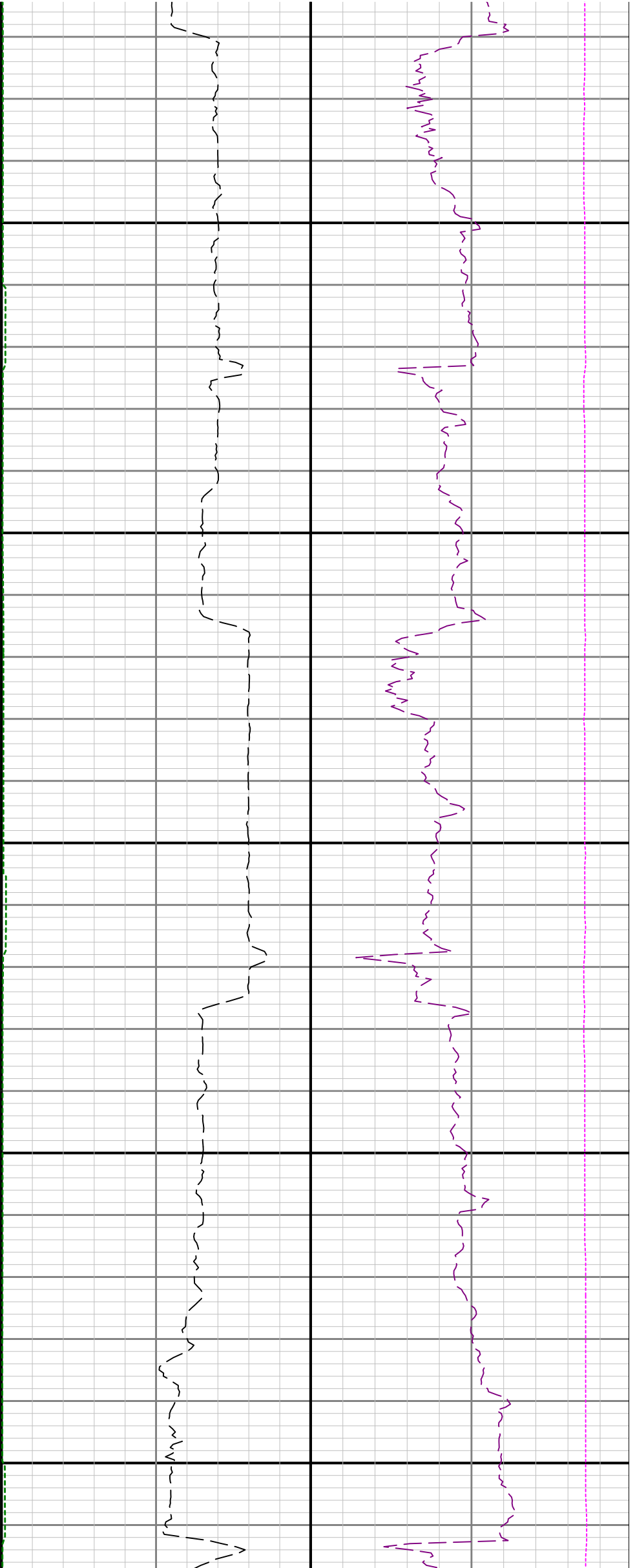
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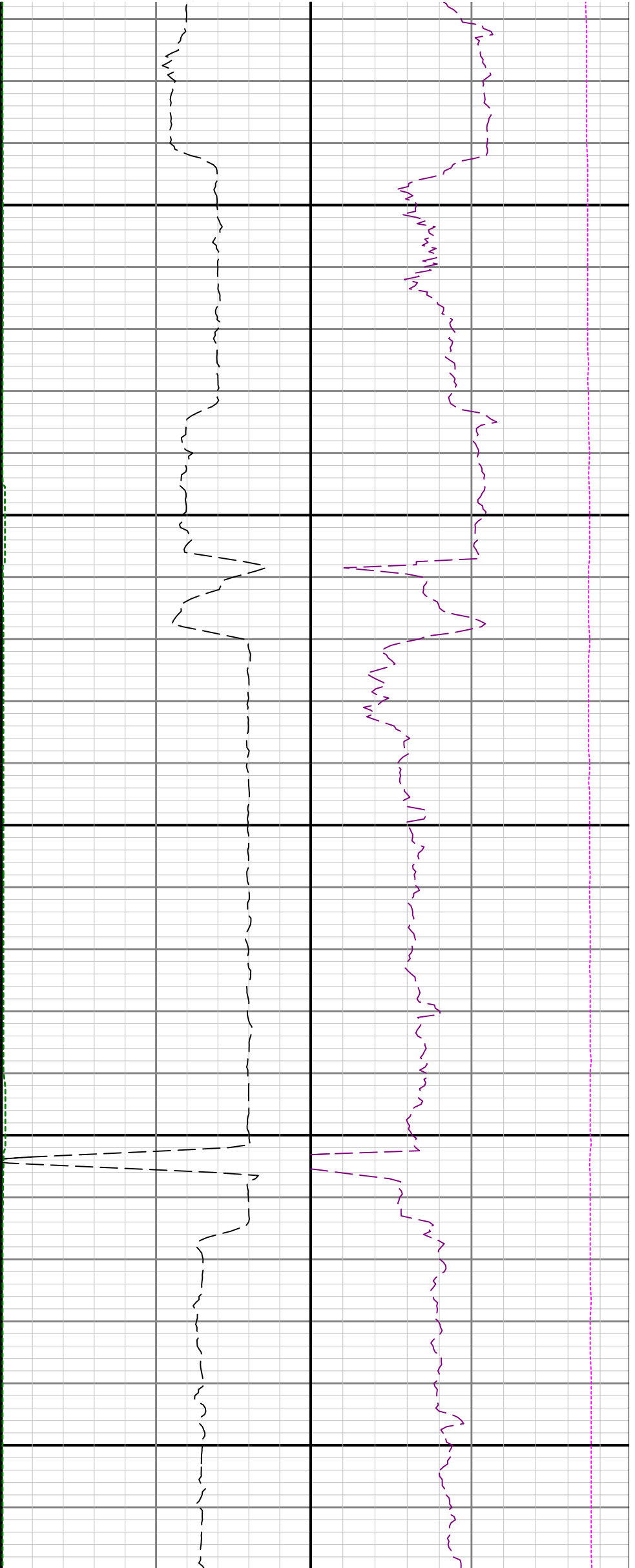
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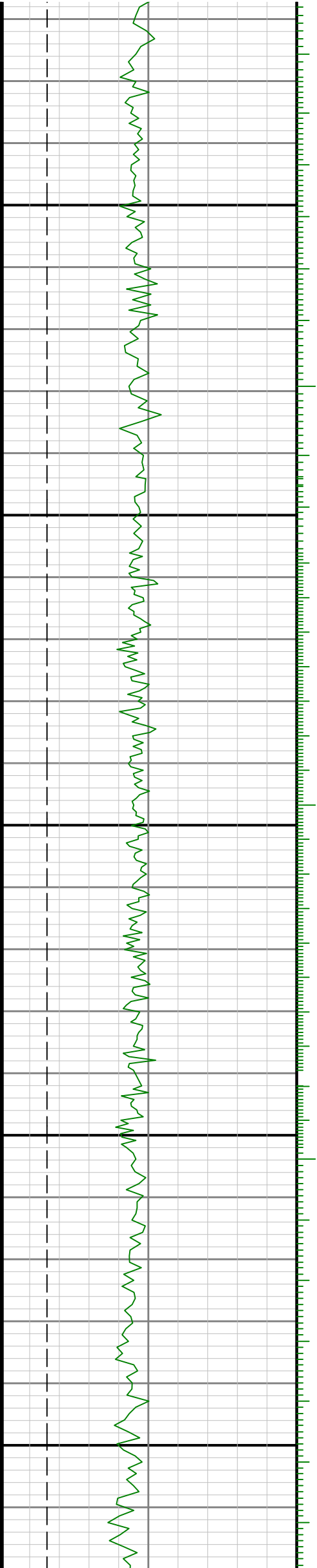


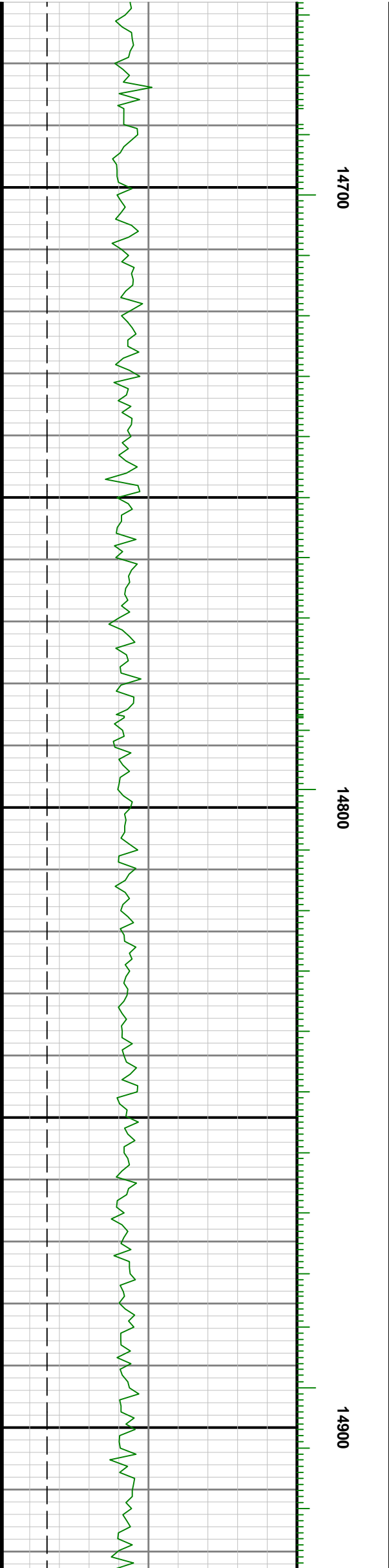
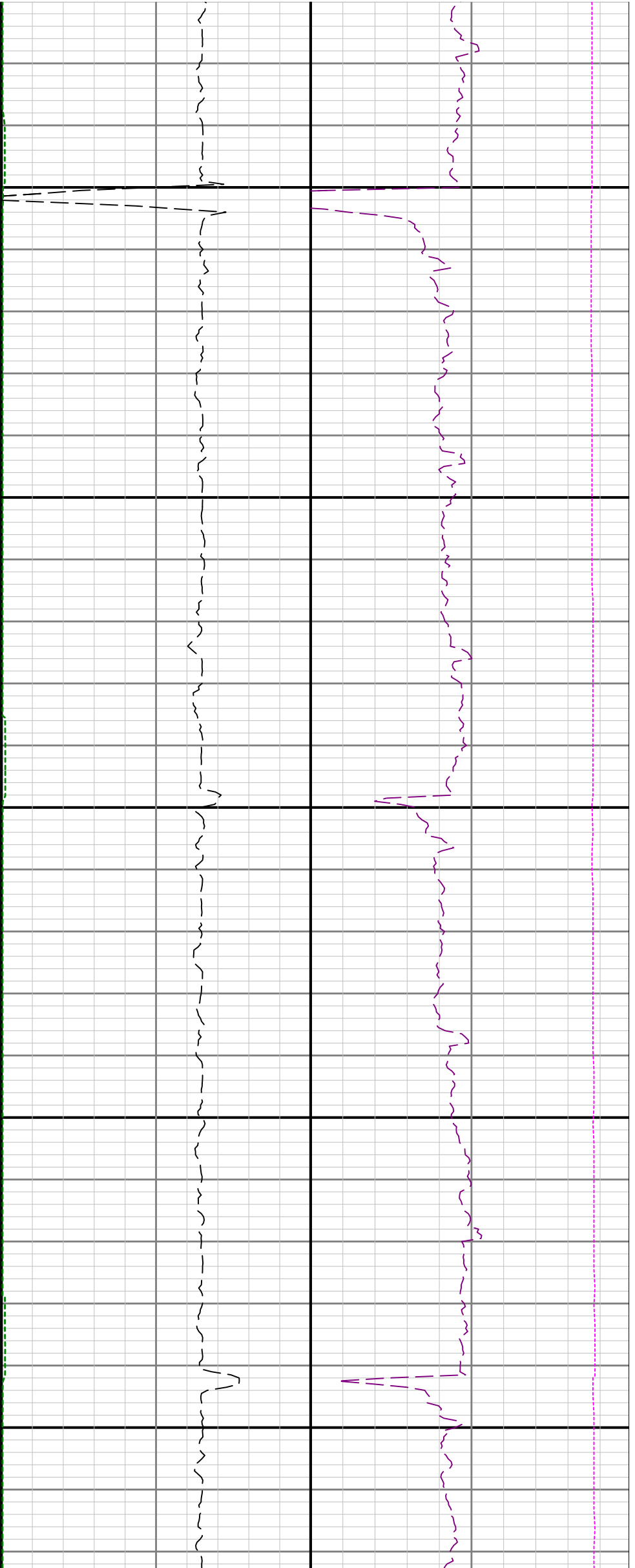


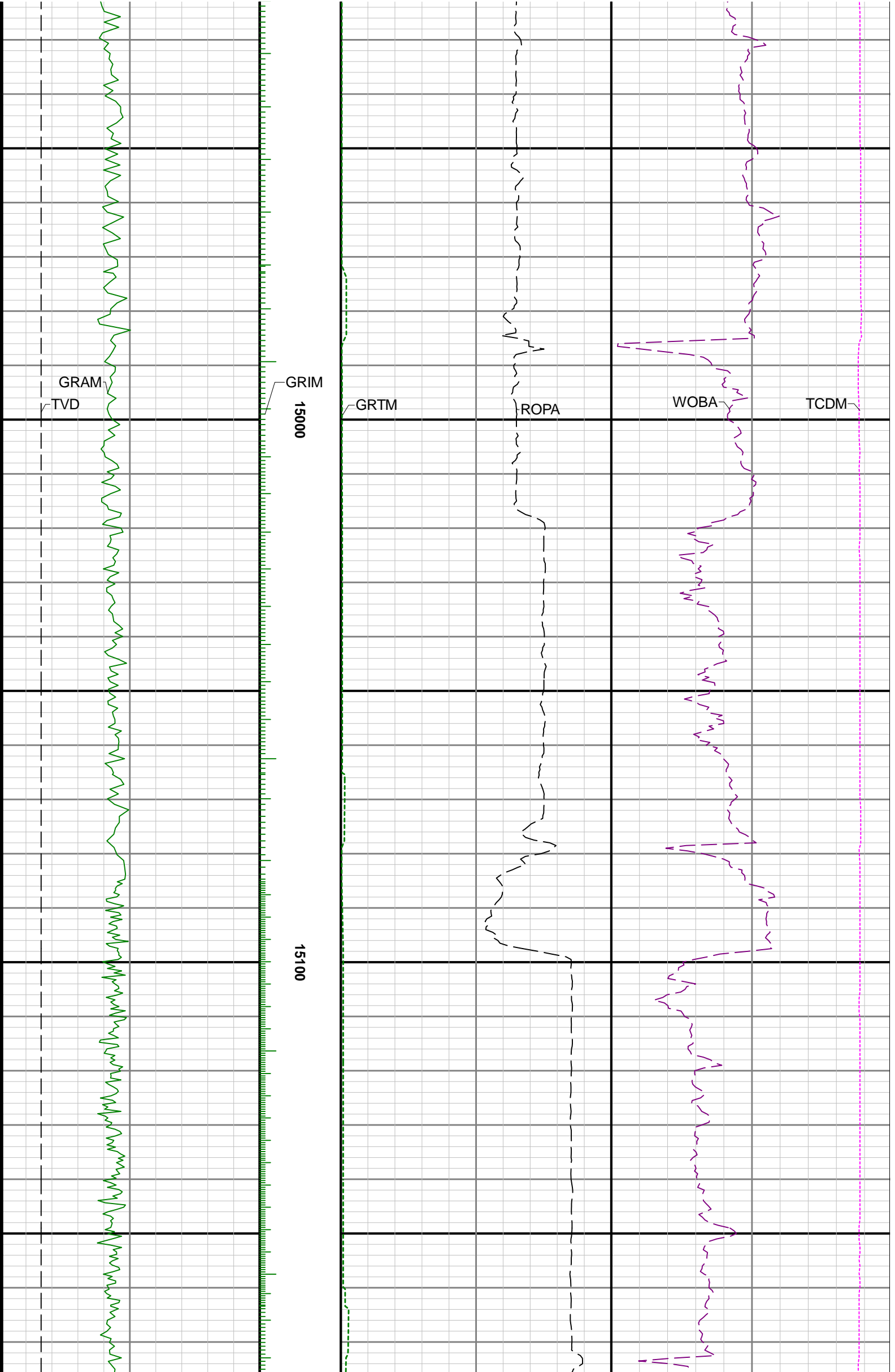


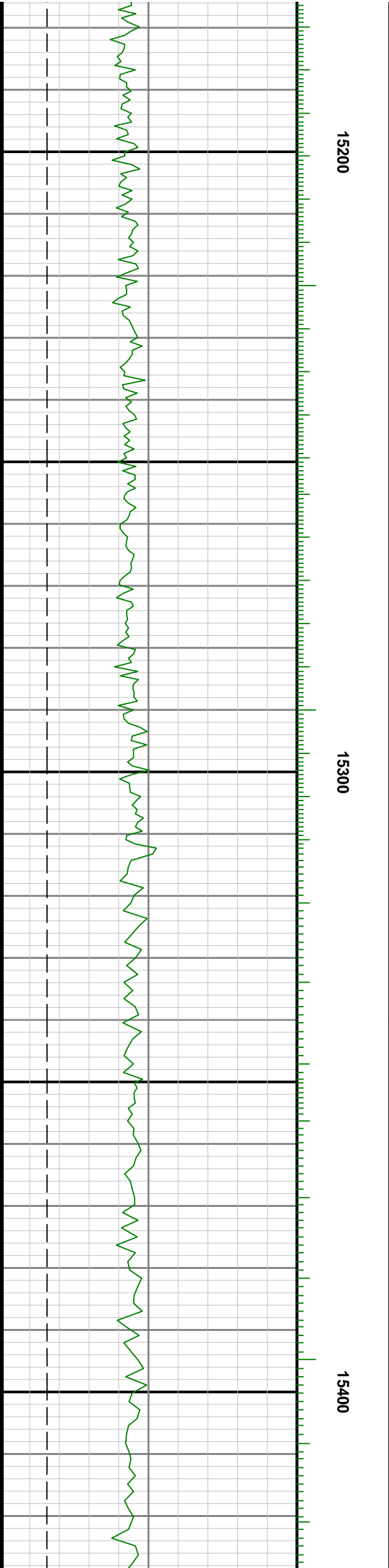
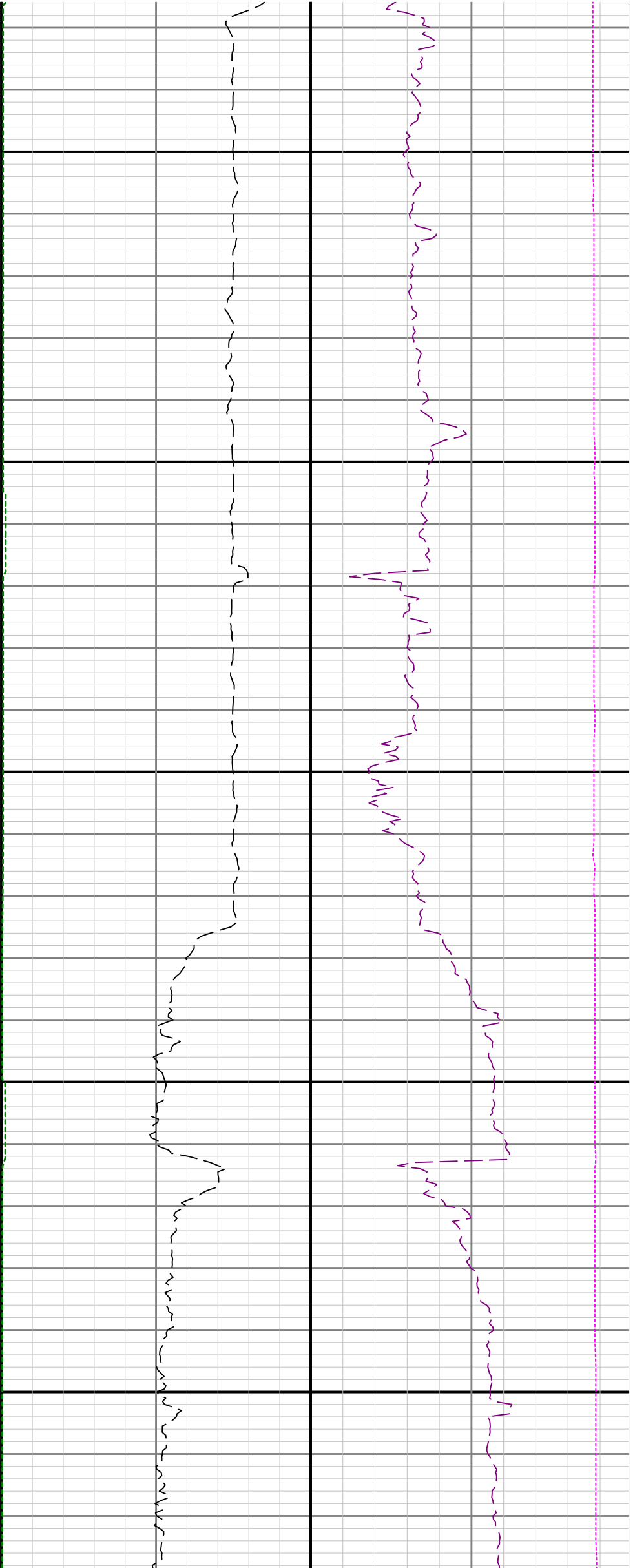
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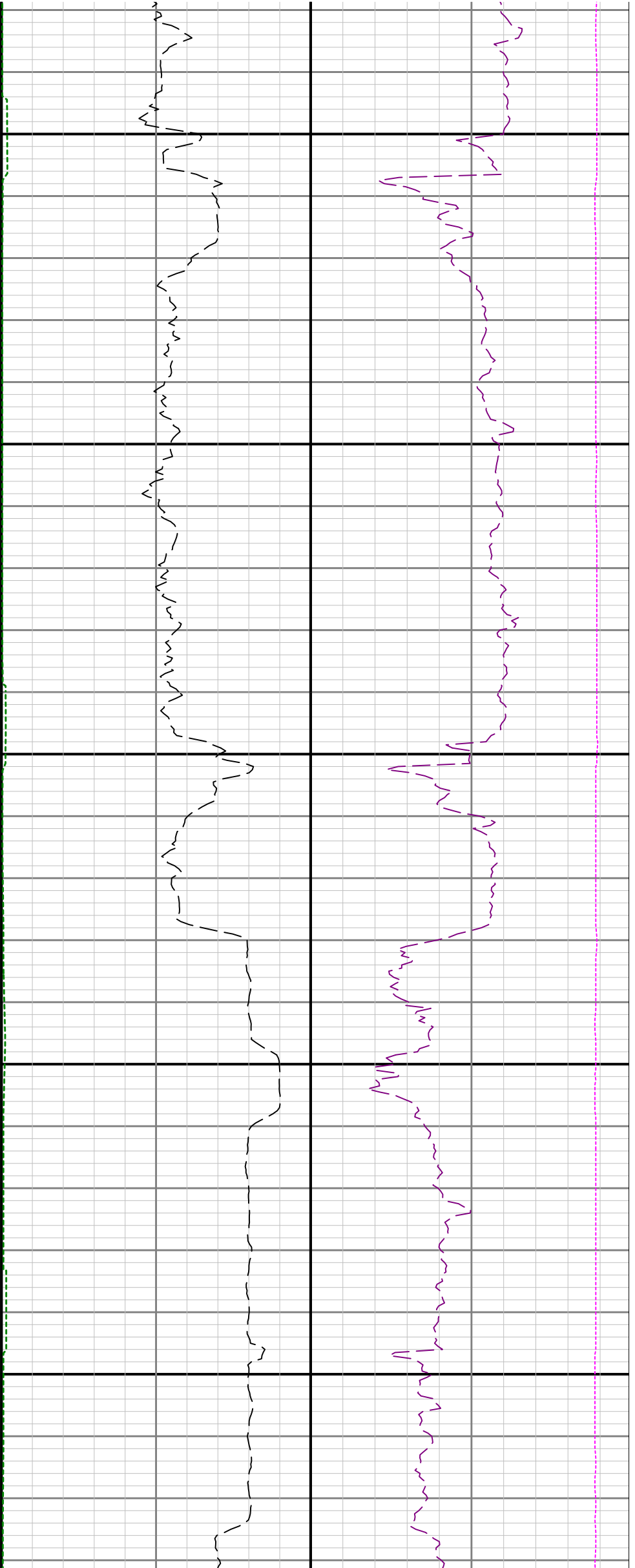
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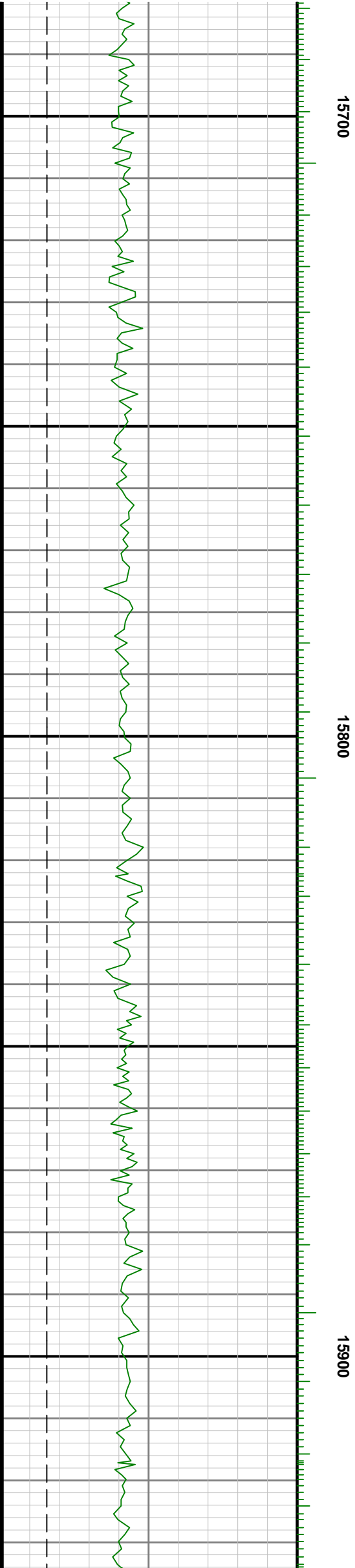
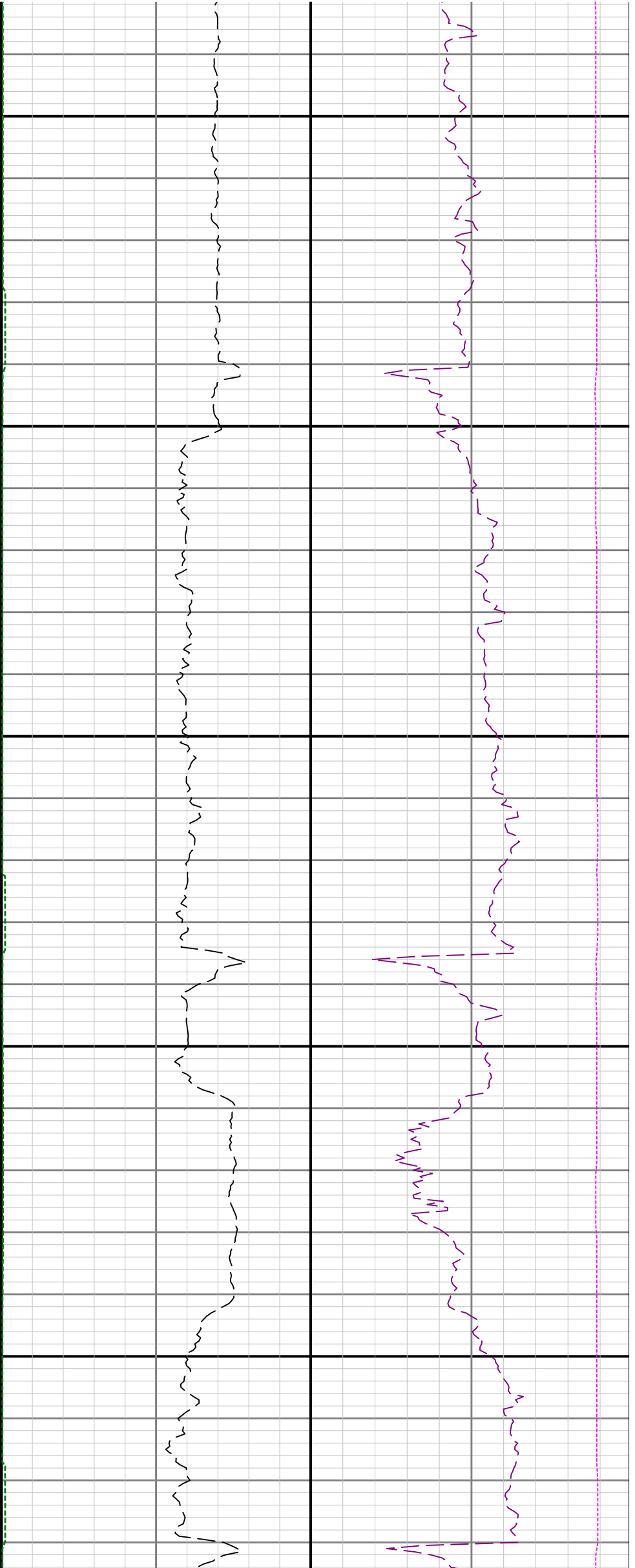


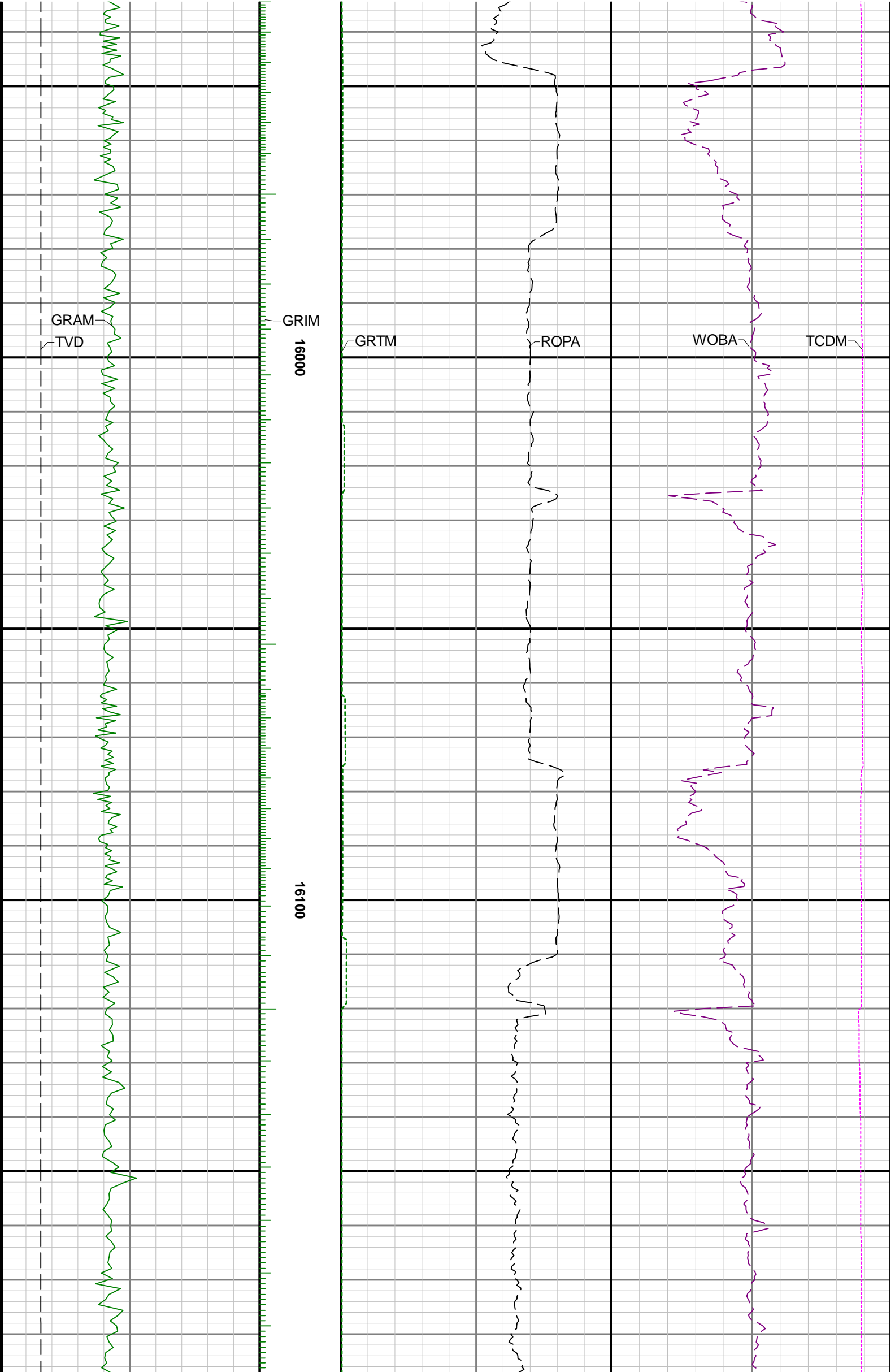


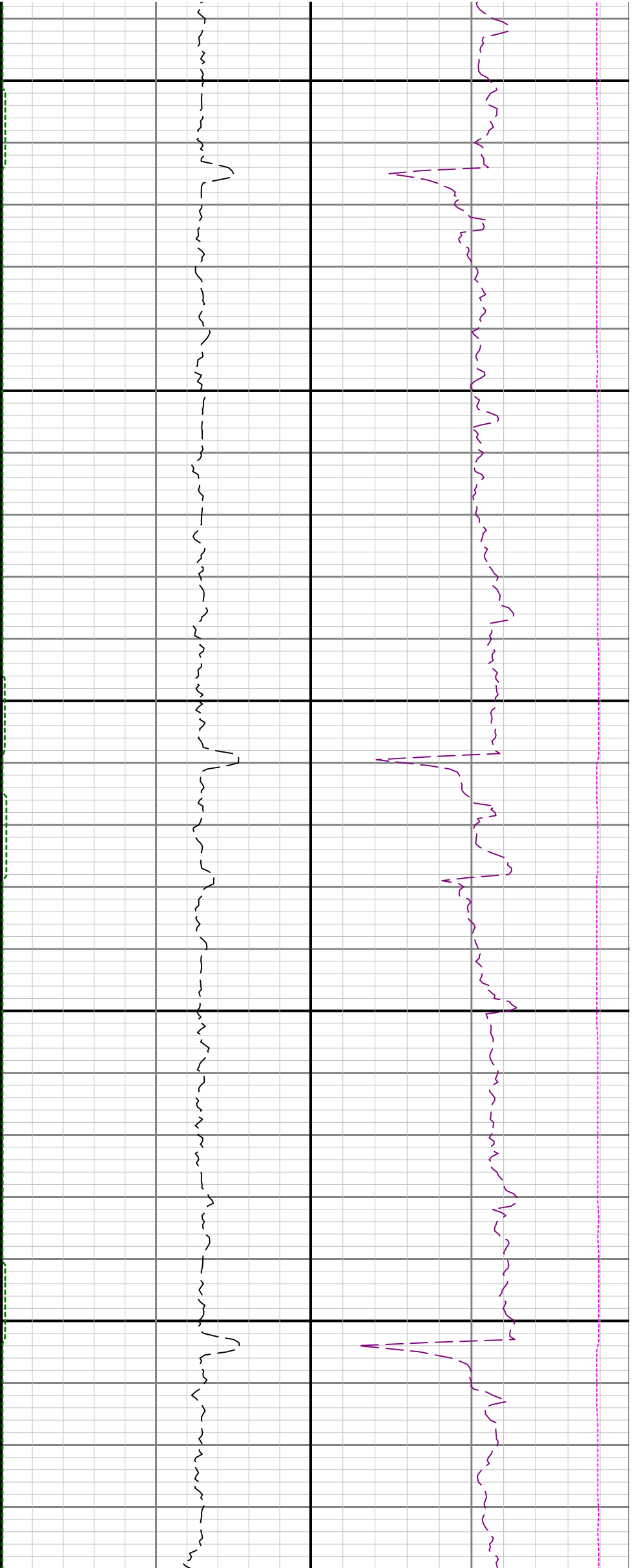


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15600



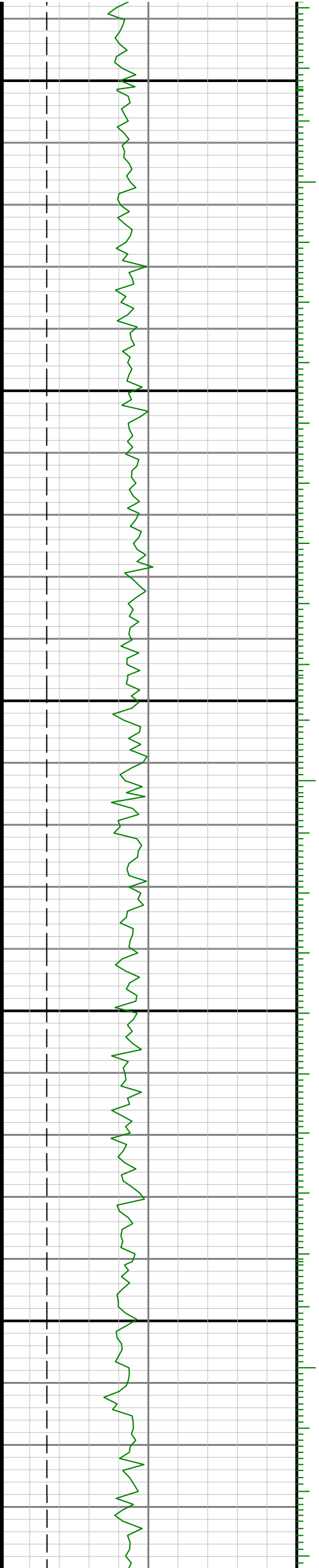


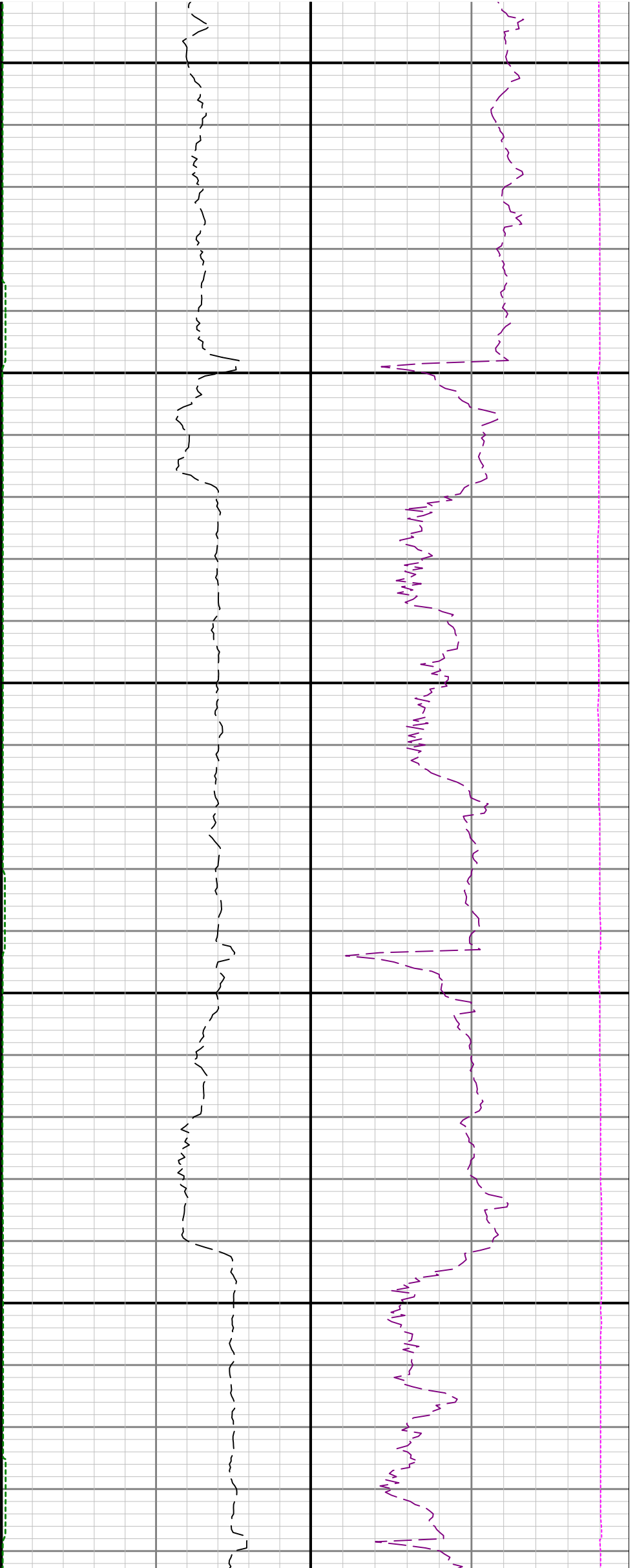


16200

16300

16400





16500

16600

