

Mud Properties Record

Date / Time	Run No.	Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2019-07-02 07:00	1	1898.00	Diesel-Oil Based Mud	9.4	16	N/A	10.0	67/23	Active Pit	37000	0.00
2019-07-03 18:00	2	10460.00	Diesel-Oil Based Mud	8.9	16	N/A	8.4	69/22	Active Pit	38000	0.00
2019-07-04 18:00	2	13232.00	Diesel-Oil Based Mud	9.1	14	N/A	N/A	70/20	Active Pit	31000	0.00

Equipment and Service Data

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
1	EvoOne	14832998	Gamma (single)	8.14	43.20	6.500	0.000
1	EvoOne	14832998	Directional (mag)	9.33	44.39	6.500	0.000
2	EvoOne	14832998	Gamma (single)	8.14	42.19	6.500	0.000
2	EvoOne	14832998	Directional (mag)	9.33	43.38	6.500	0.000

Service and Tool Mnemonics

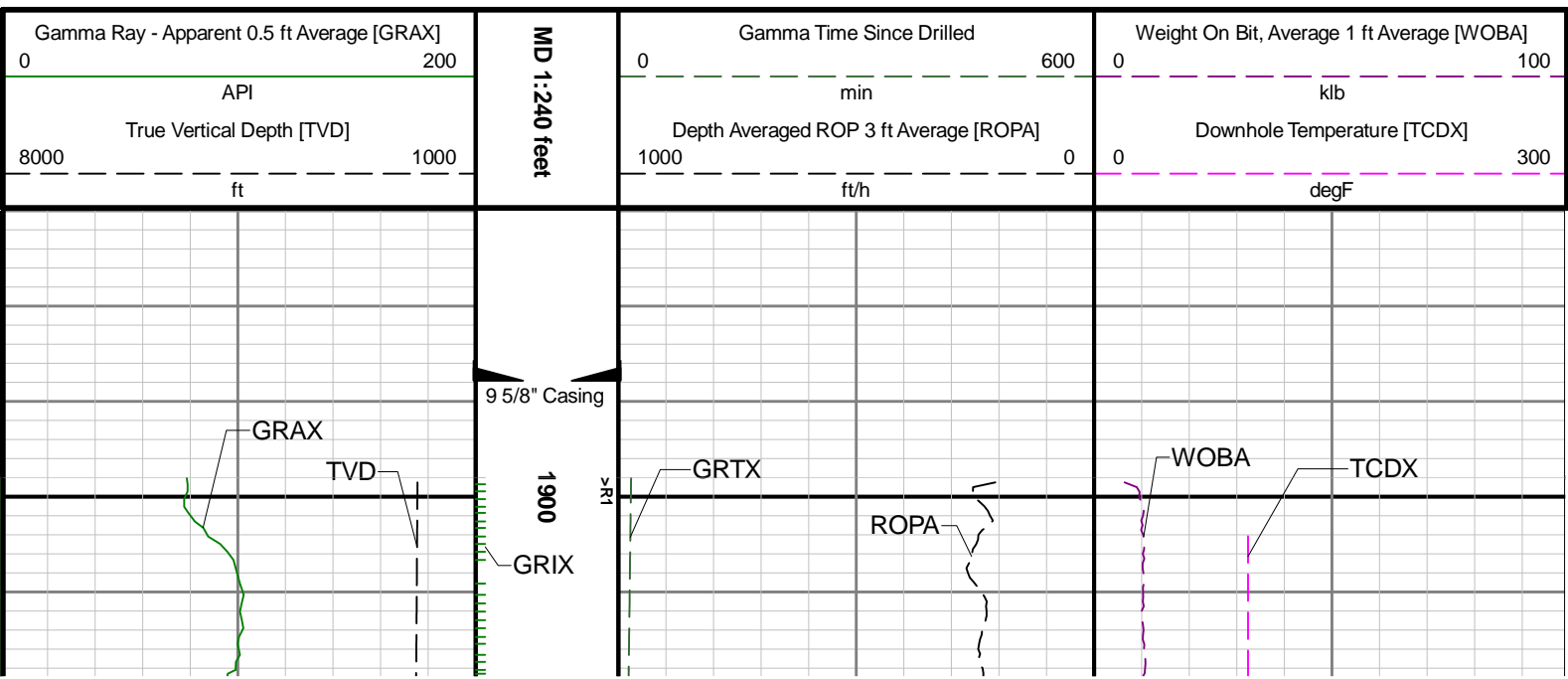
Mnemonic	Name	Description
MWD	EvoOne - Dir Gamma	EvoOne

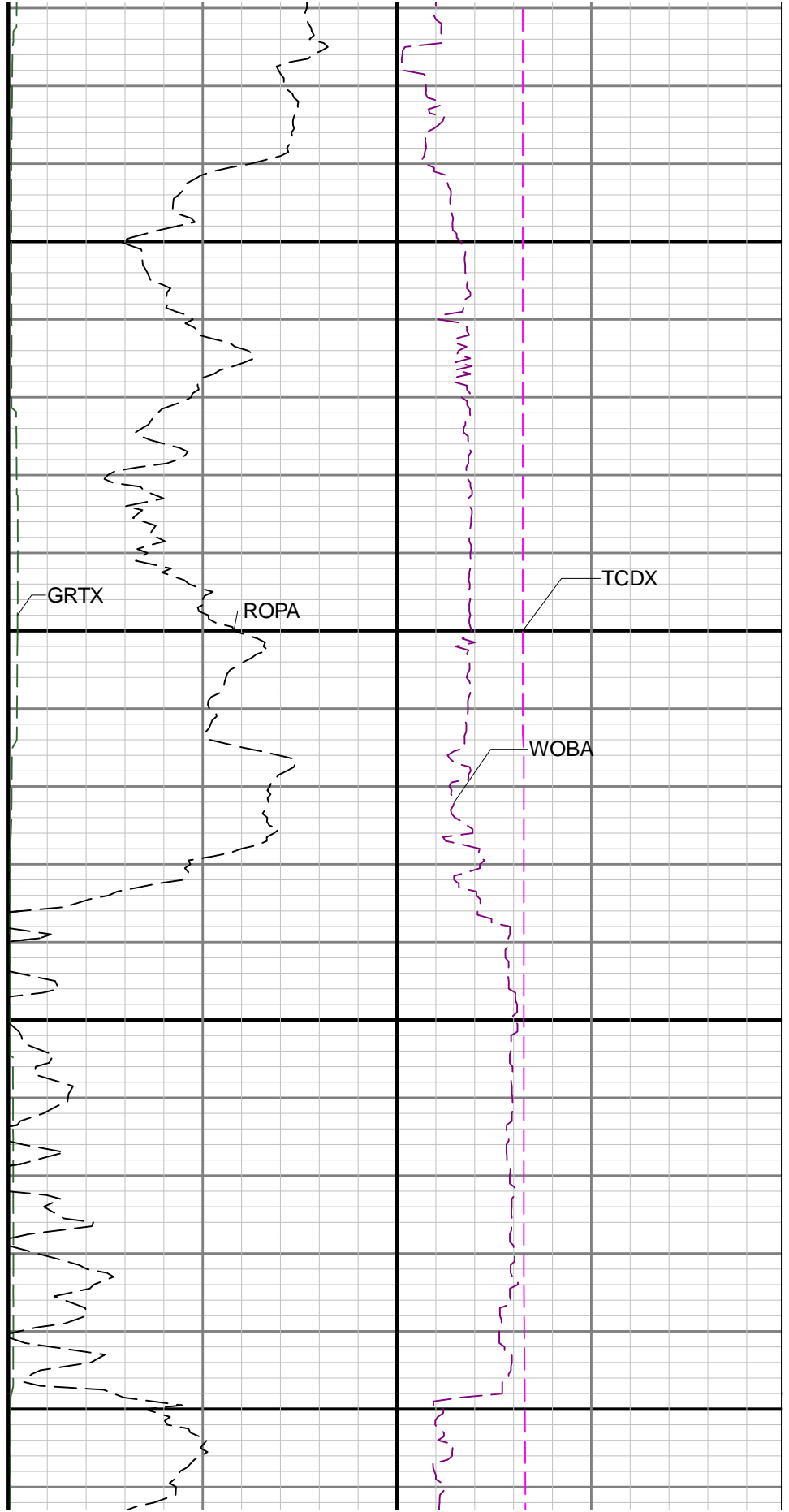
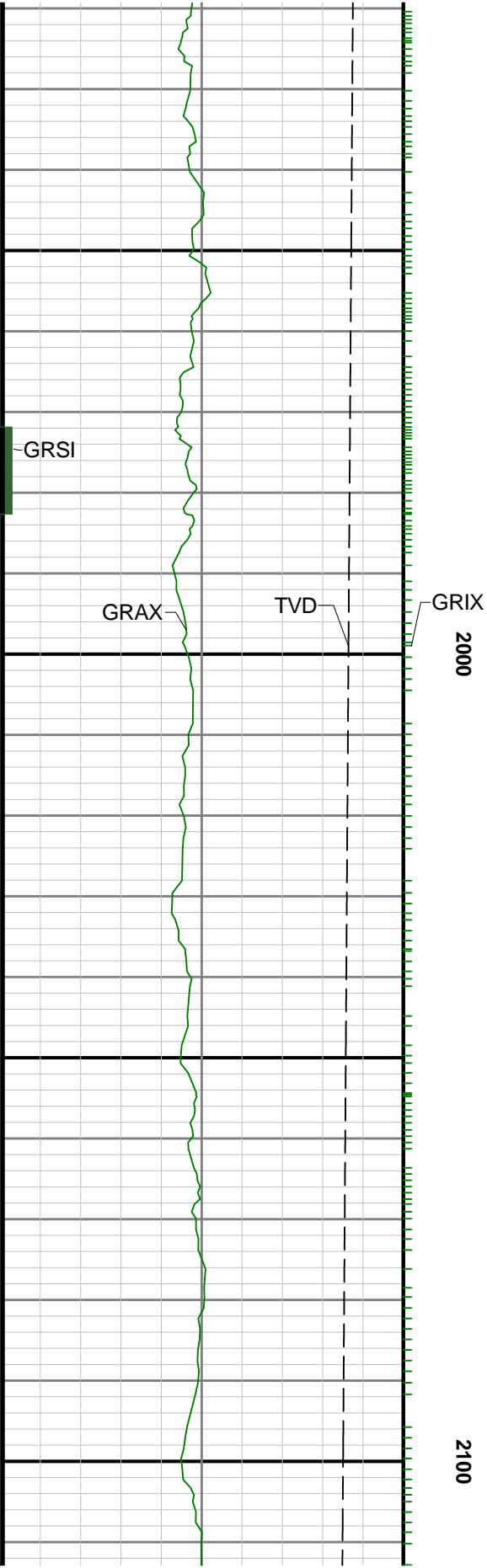
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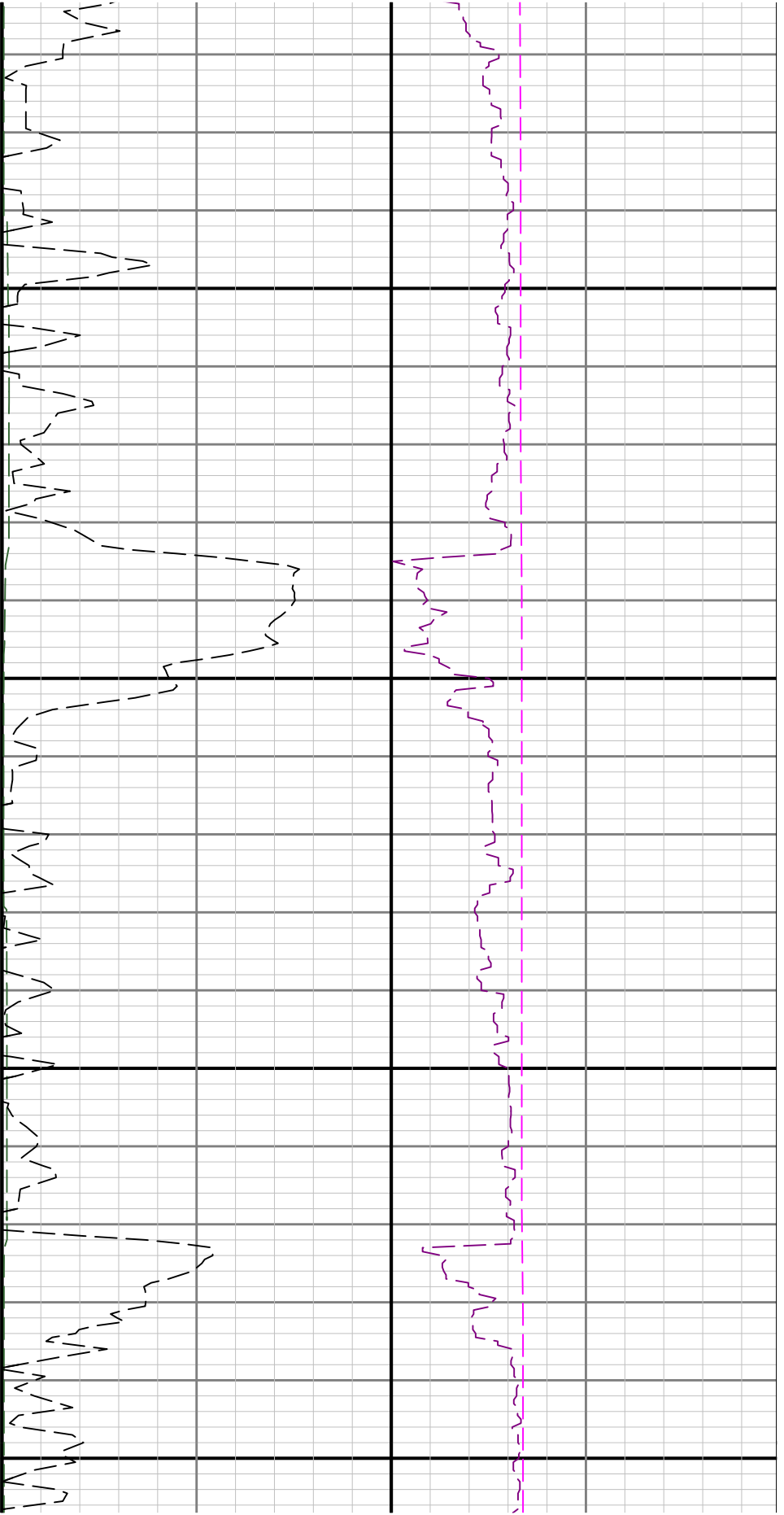
- 1 Depth measurements were obtained from a depth control system not supplied by Baker Hughes. Due to lack of control by Baker Hughes logging engineers depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to represent logging data.
- 2 A sliding indicator is shown on the left side of track 1 as a heavy line. This indicator has been depth-shifted to the Gamma Ray sensor offset to correspond with Gamma Ray data acquired while sliding.
- 3 Gamma Ray (GRAX) scale is presented from a 0 to 200 API scale at the request of the customer.
- 4 Baker Hughes run 1 utilized 6 1/2 inch Evo One services (Directional and Gamma Ray) behind a 7 7/8 inch bit and steerable assembly from 1898 to 13874 feet MD (1855 to 7655 feet TVD).

Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	2730.00	7.875	1	The interval from 2721 to 2754 feet MD (2620 to 2651 feet TVD) was not logged due to Pason system issues.
2	6400.00	7.875	1	The interval from 6371 to 6448 feet MD (5989 to 6059 feet TVD) was not logged due to surface gear issues.
3	13189.00	7.875	2	Interval from 13189 to 13232 feet MD (7651 feet TVD) was logged up to 13 hours after being drilled due to trip to change BHA.
4	13419.00	7.875	2	The interval from 13419 to 13449 feet MD (7654 feet TVD) was not logged due to surface gear issues.
5	13874.00	7.875	2	The interval from 13830 to 13874 feet MD (7655 feet TVD) was not logged due to sensor to bit offset at well TD.

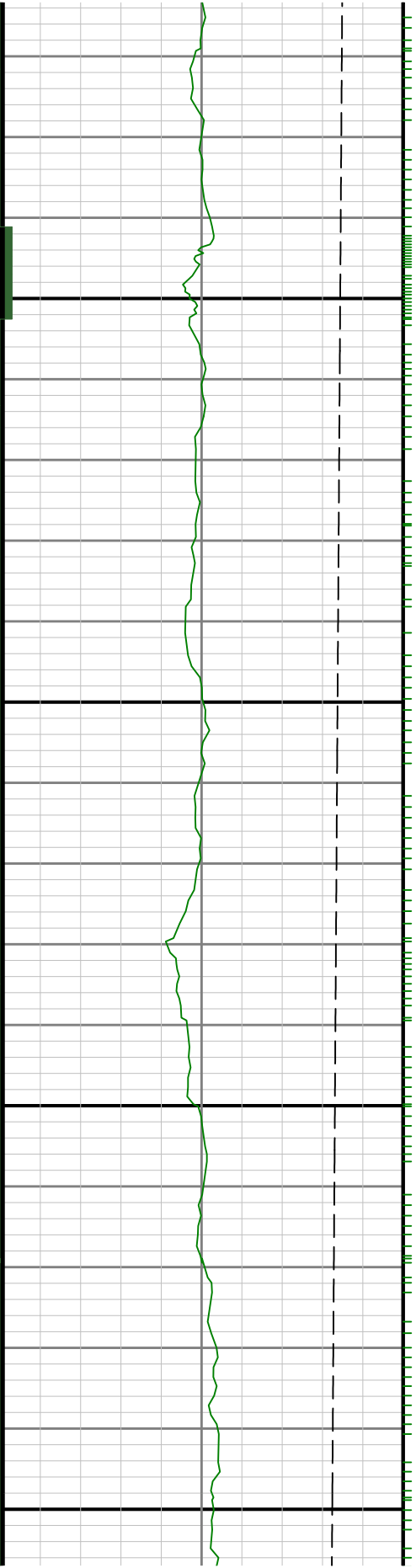


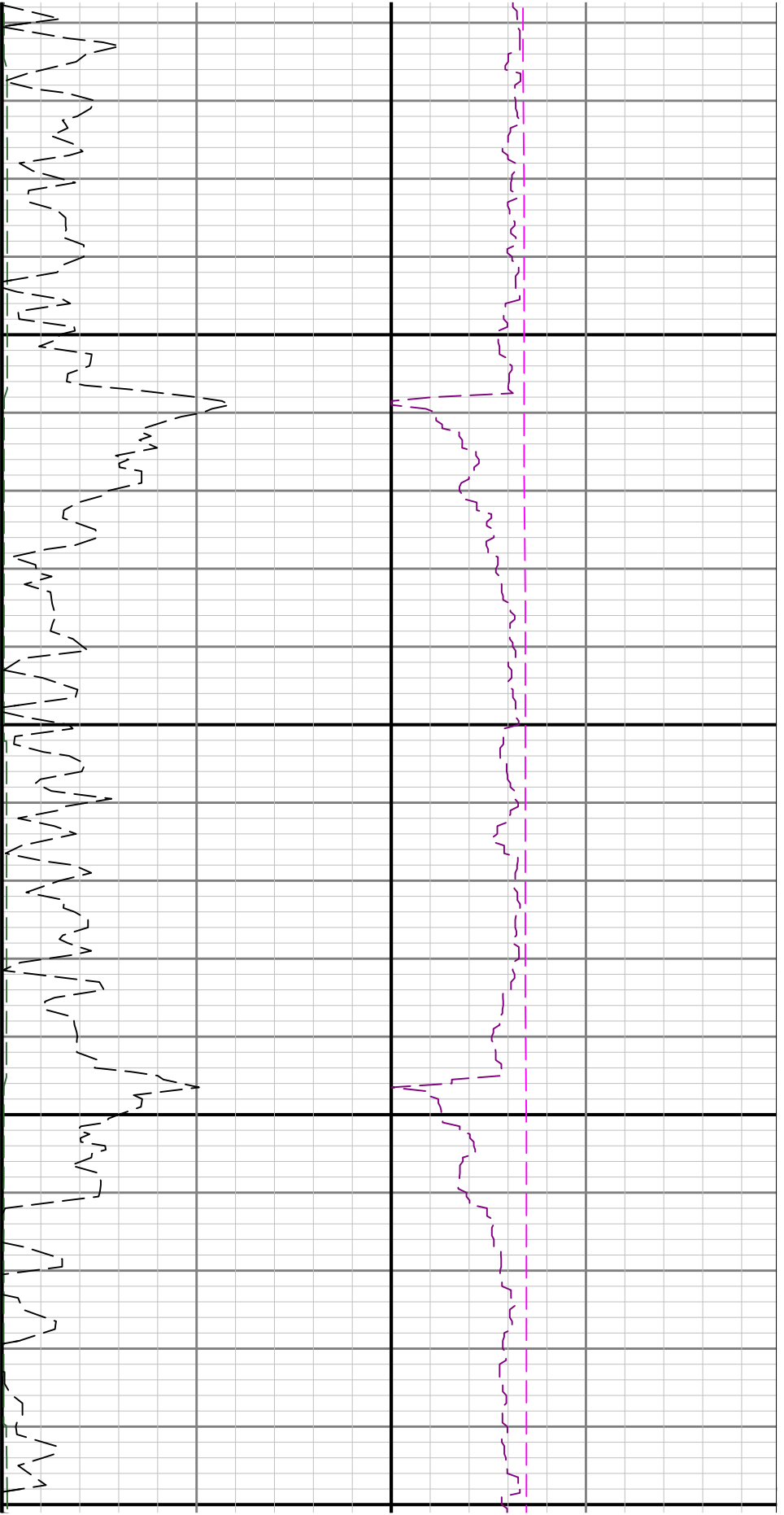




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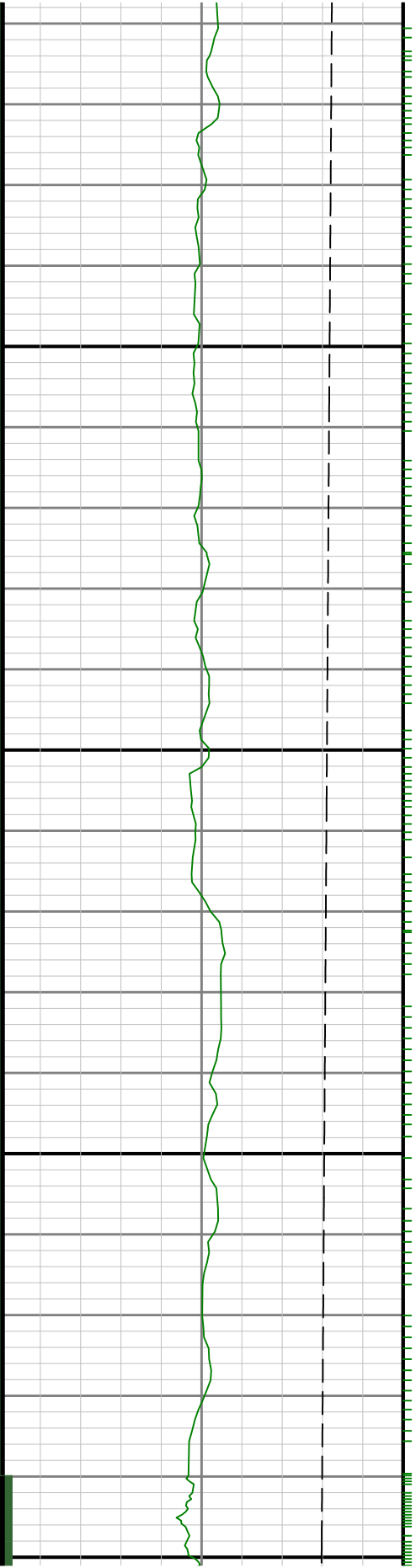
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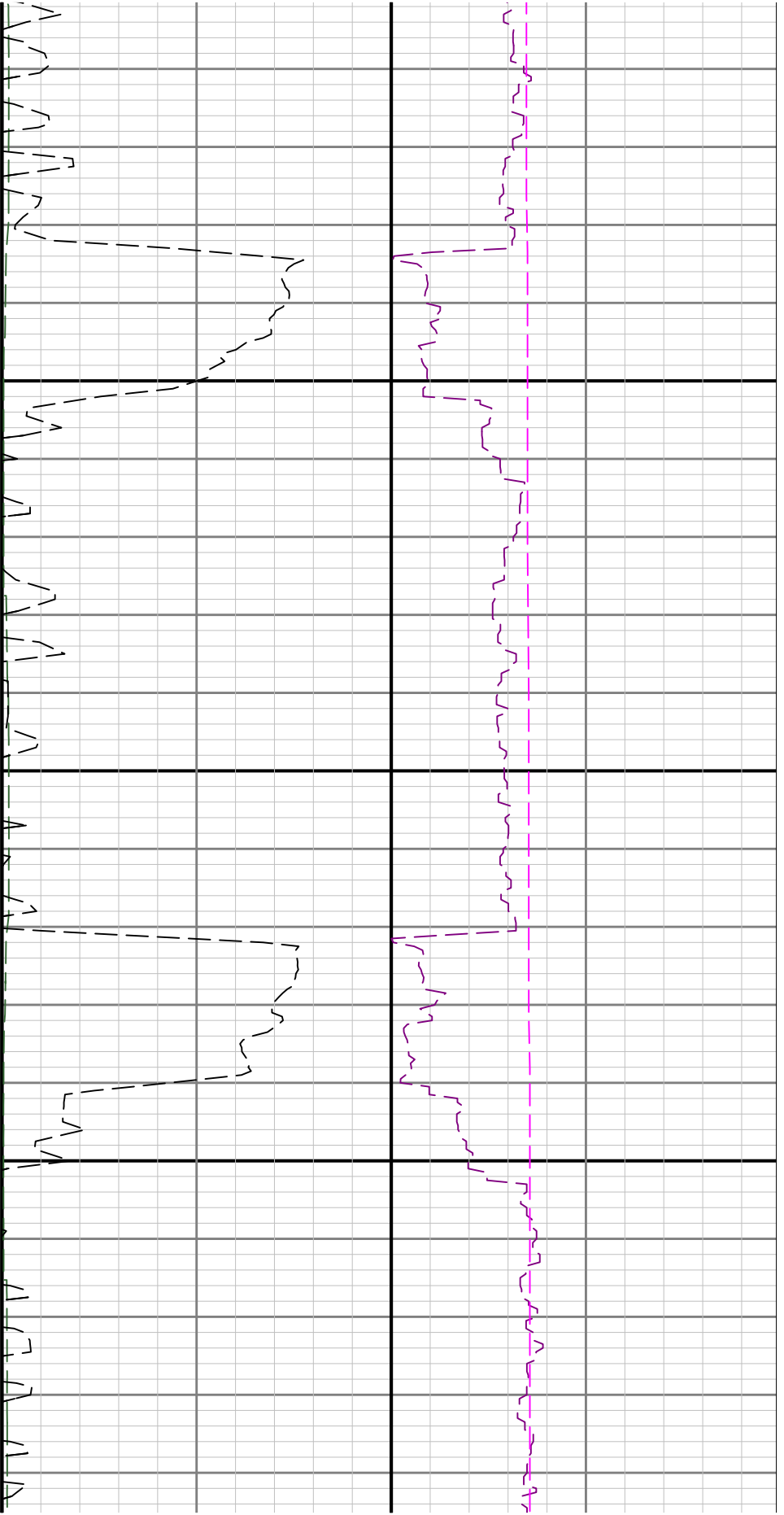




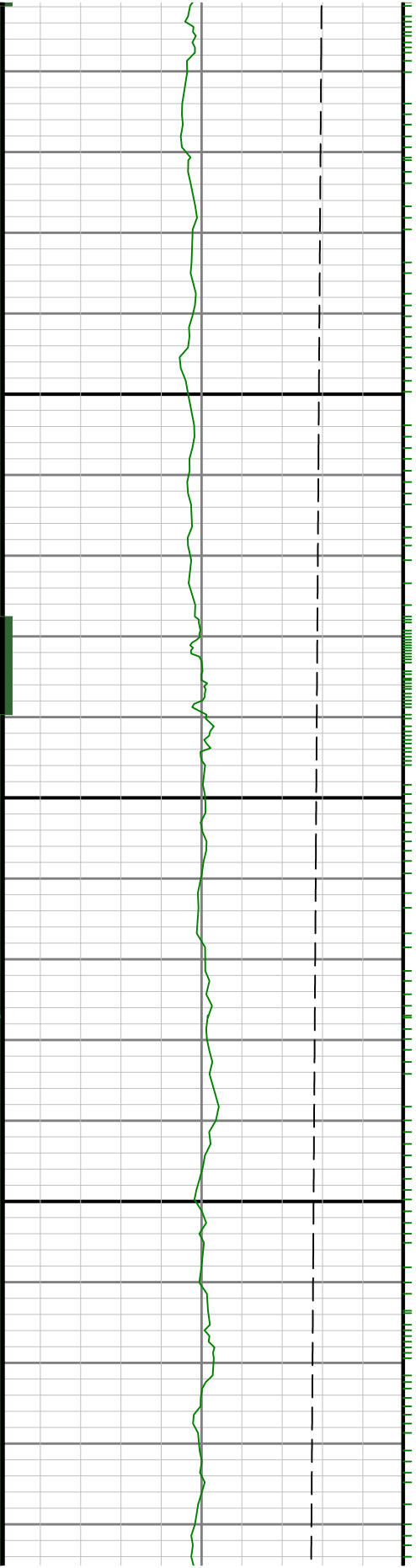
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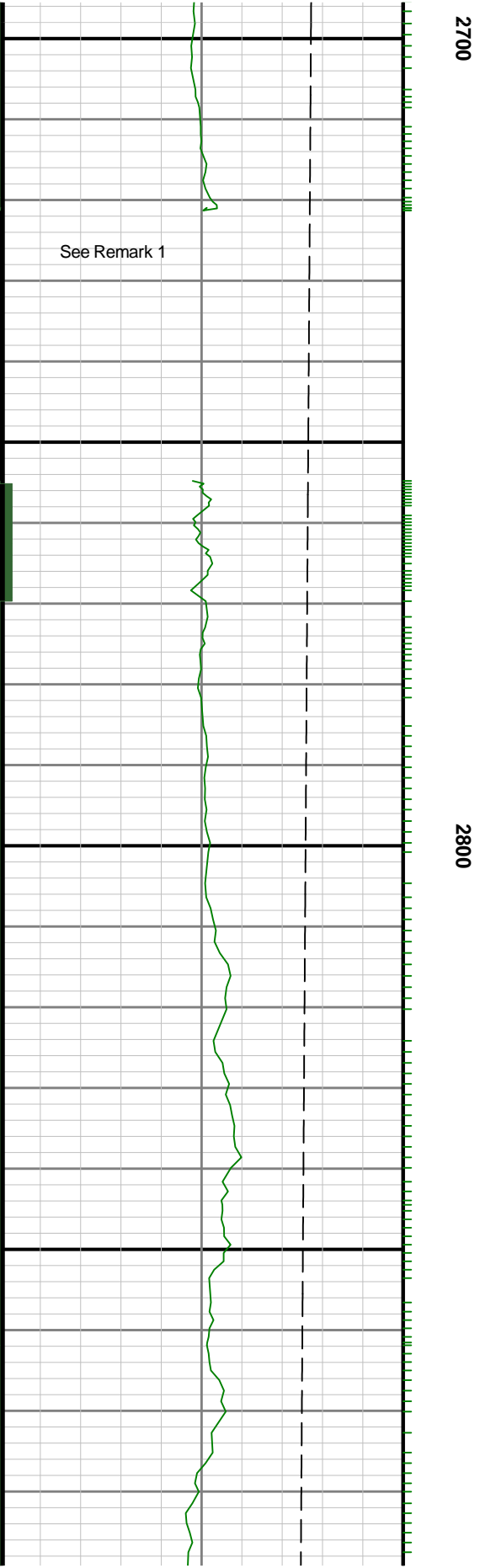
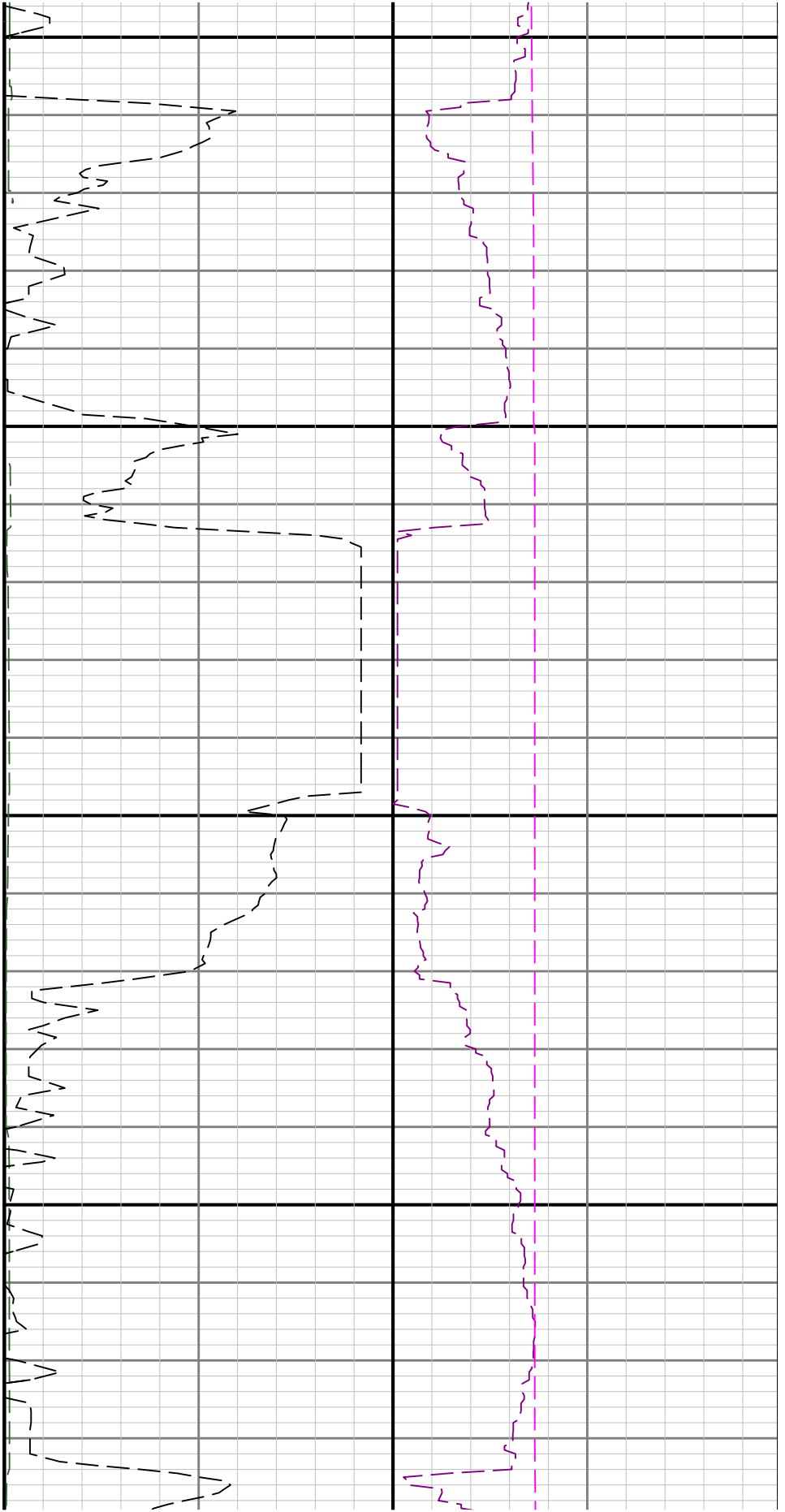
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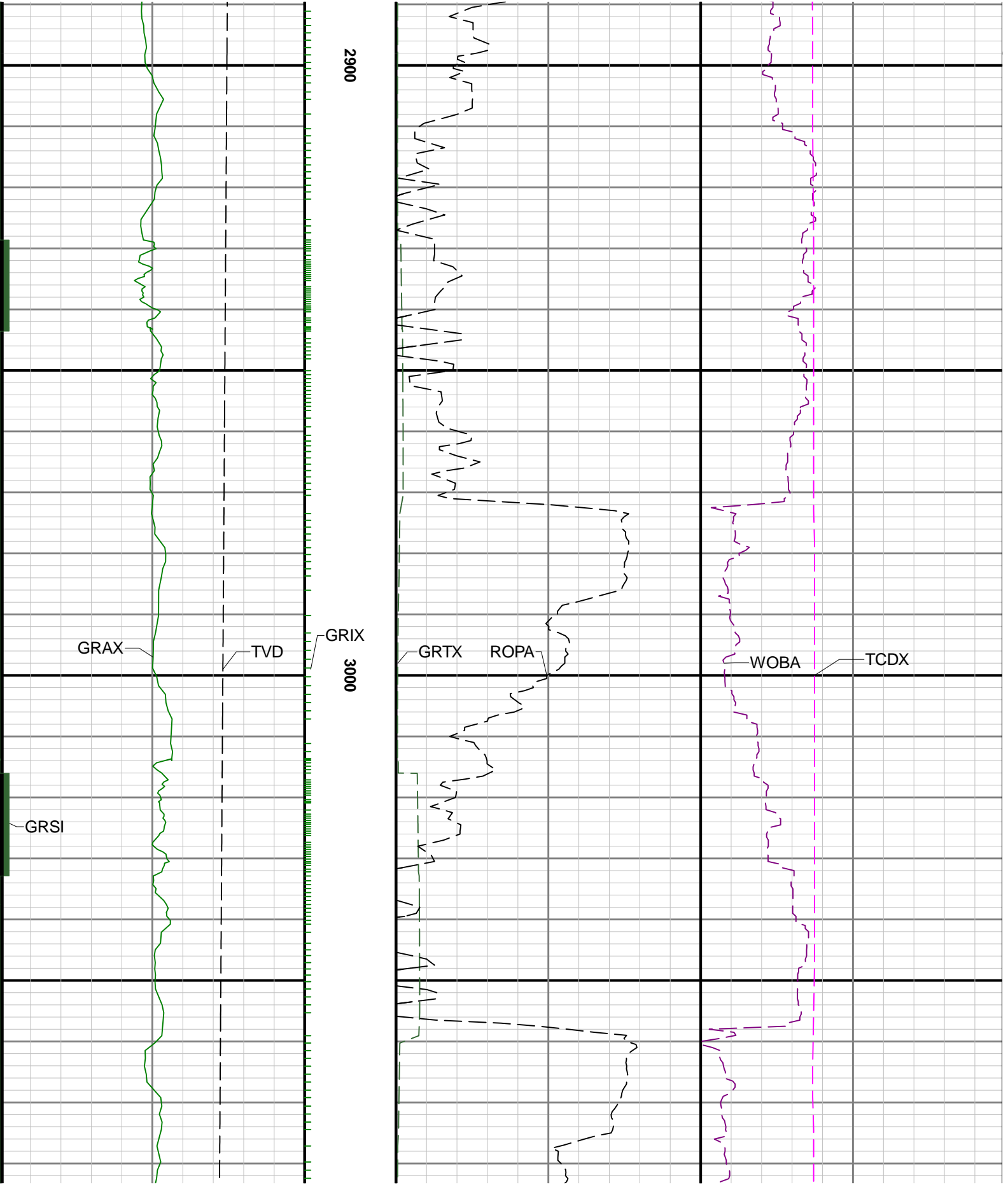


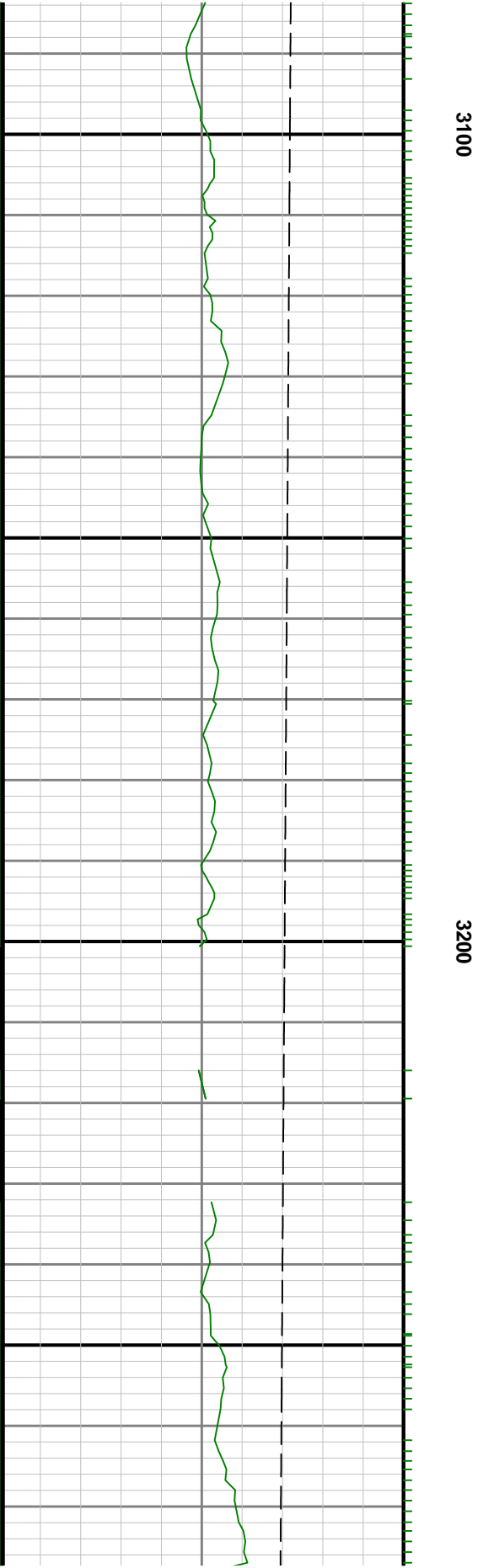
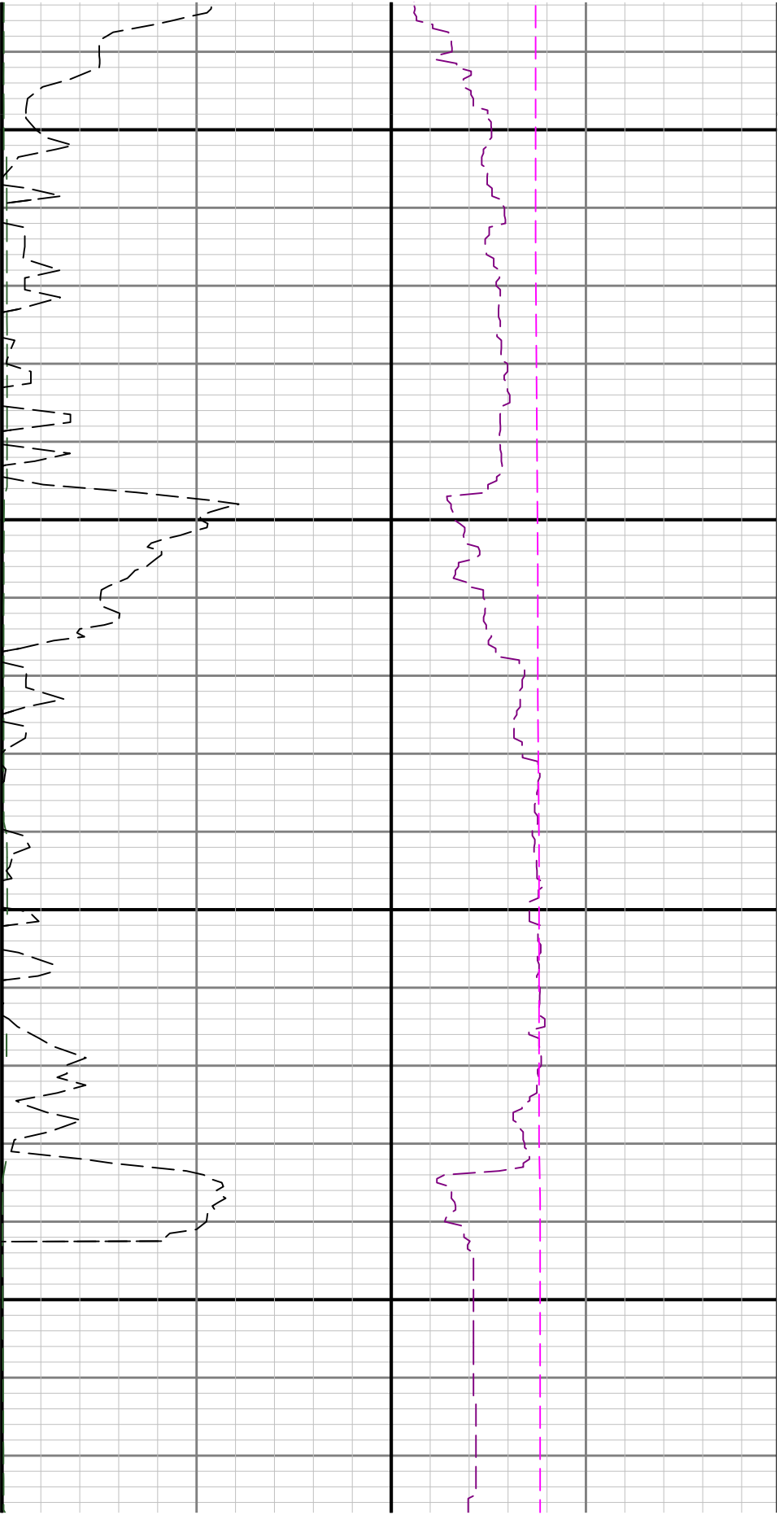


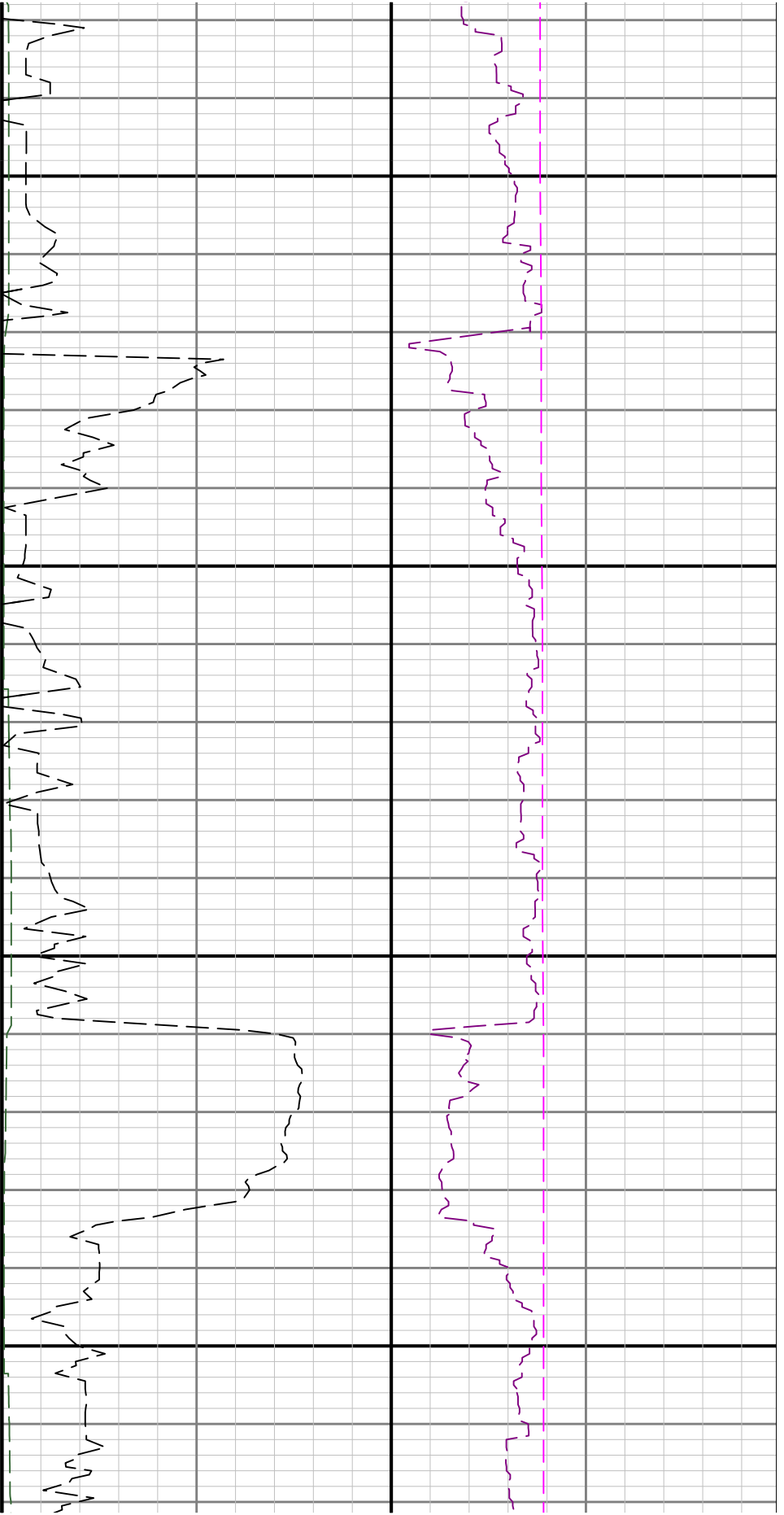
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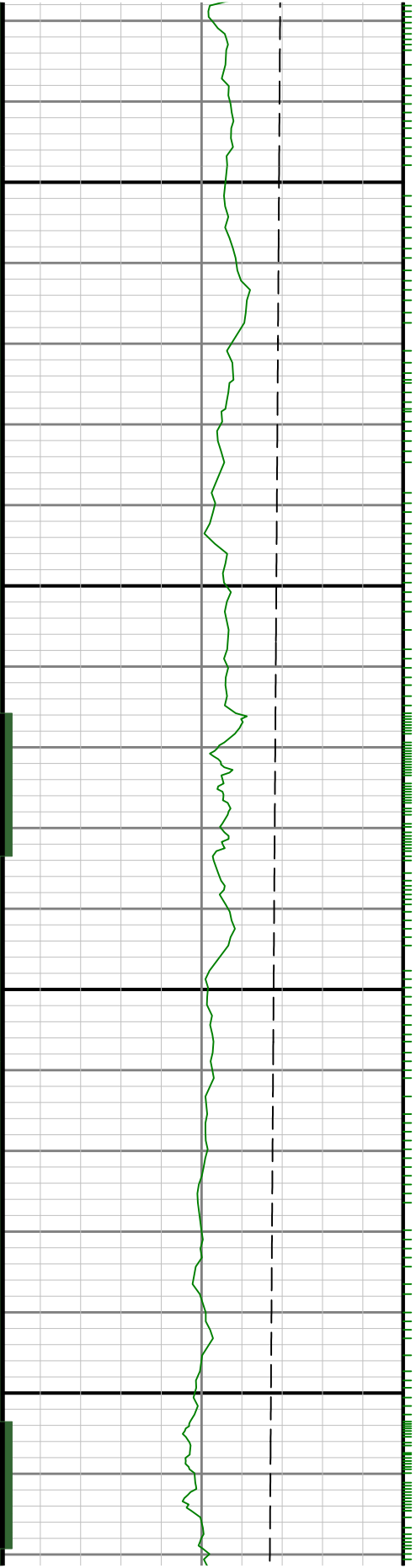


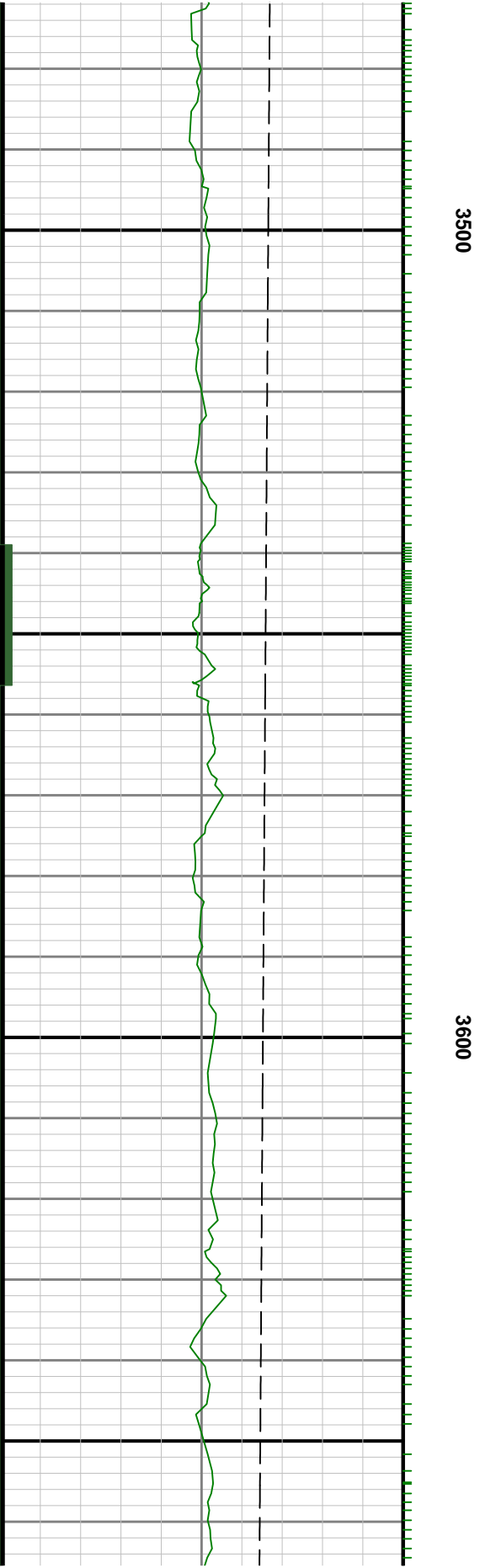
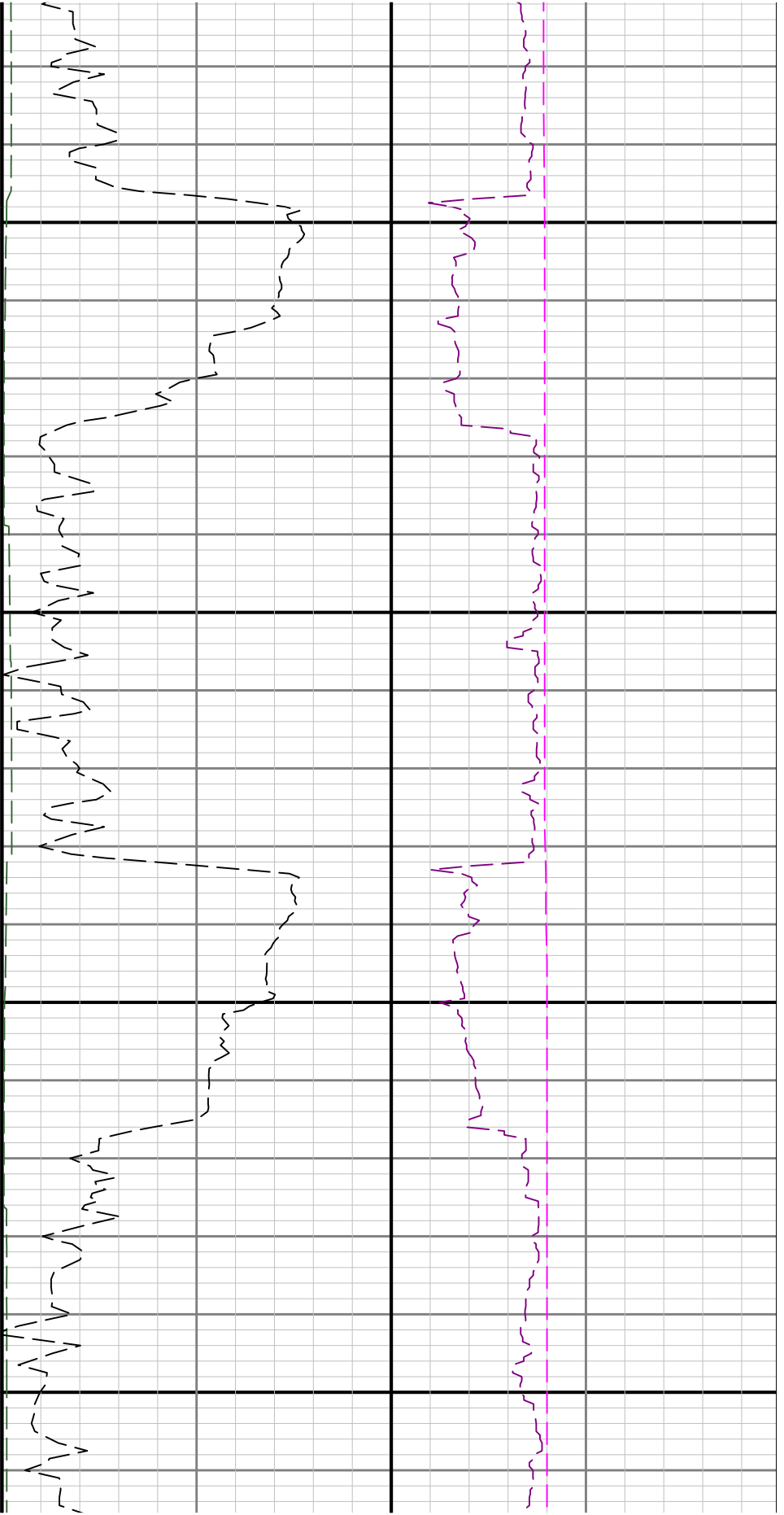


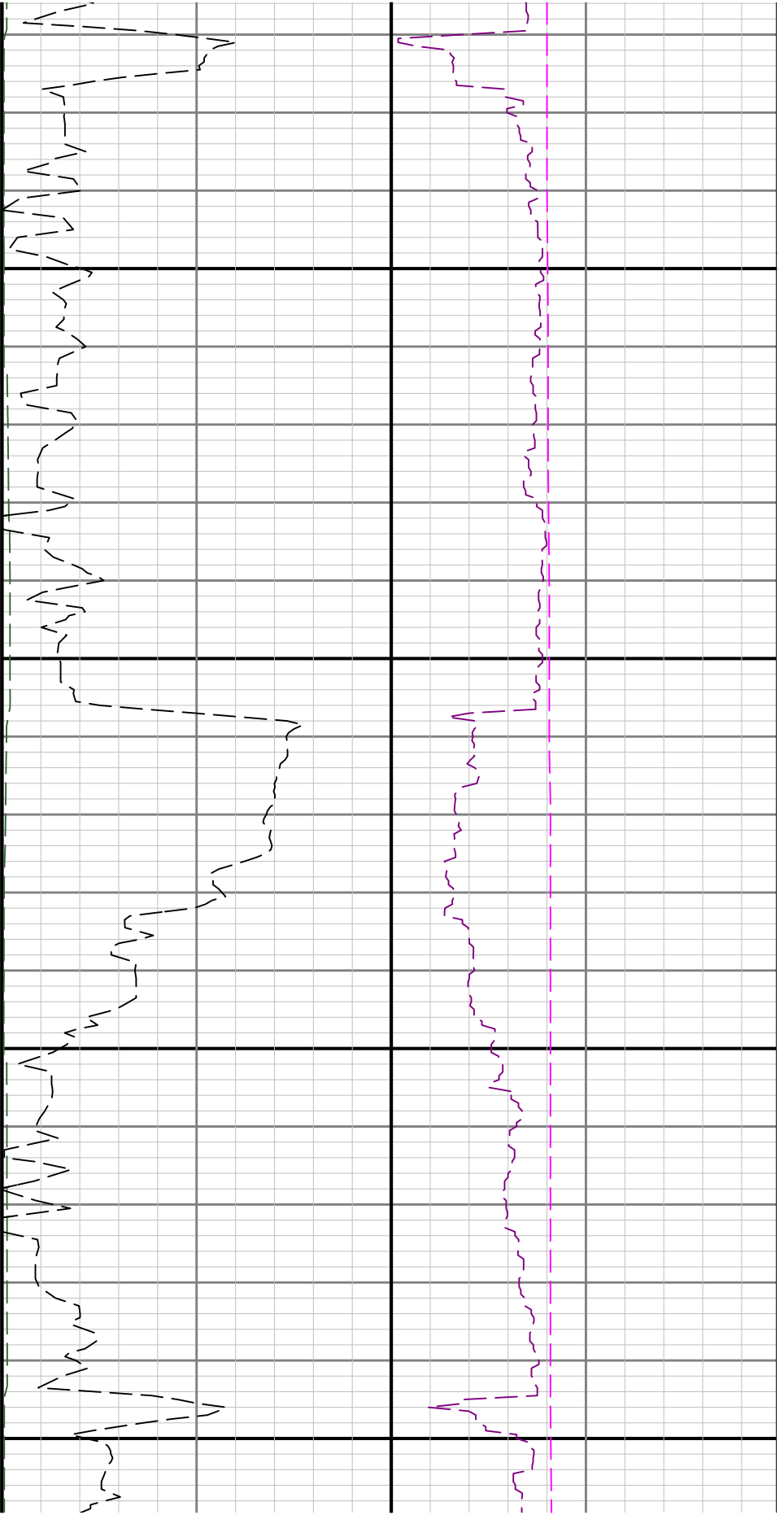


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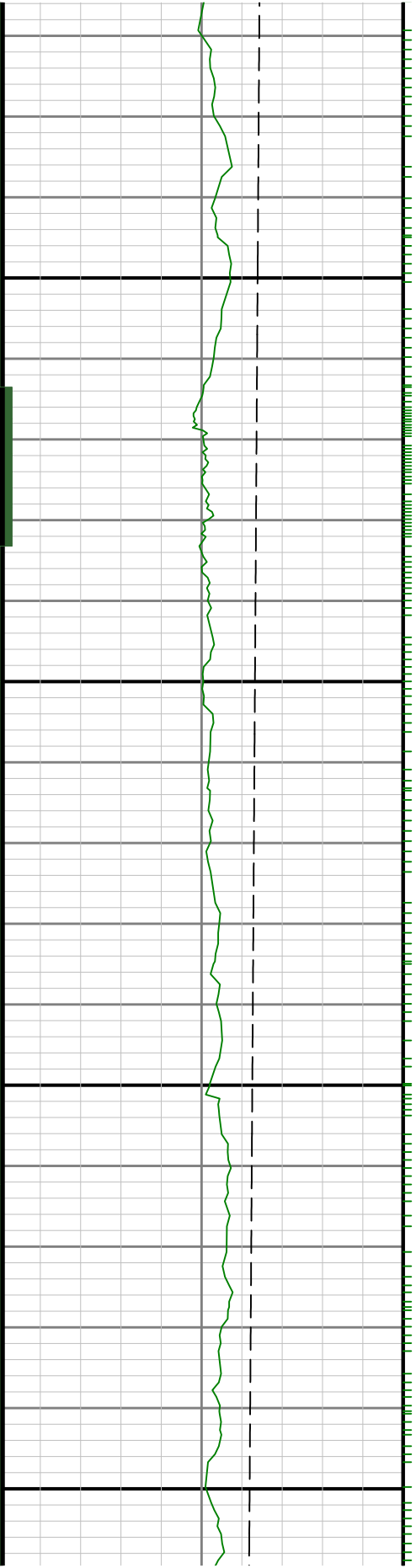


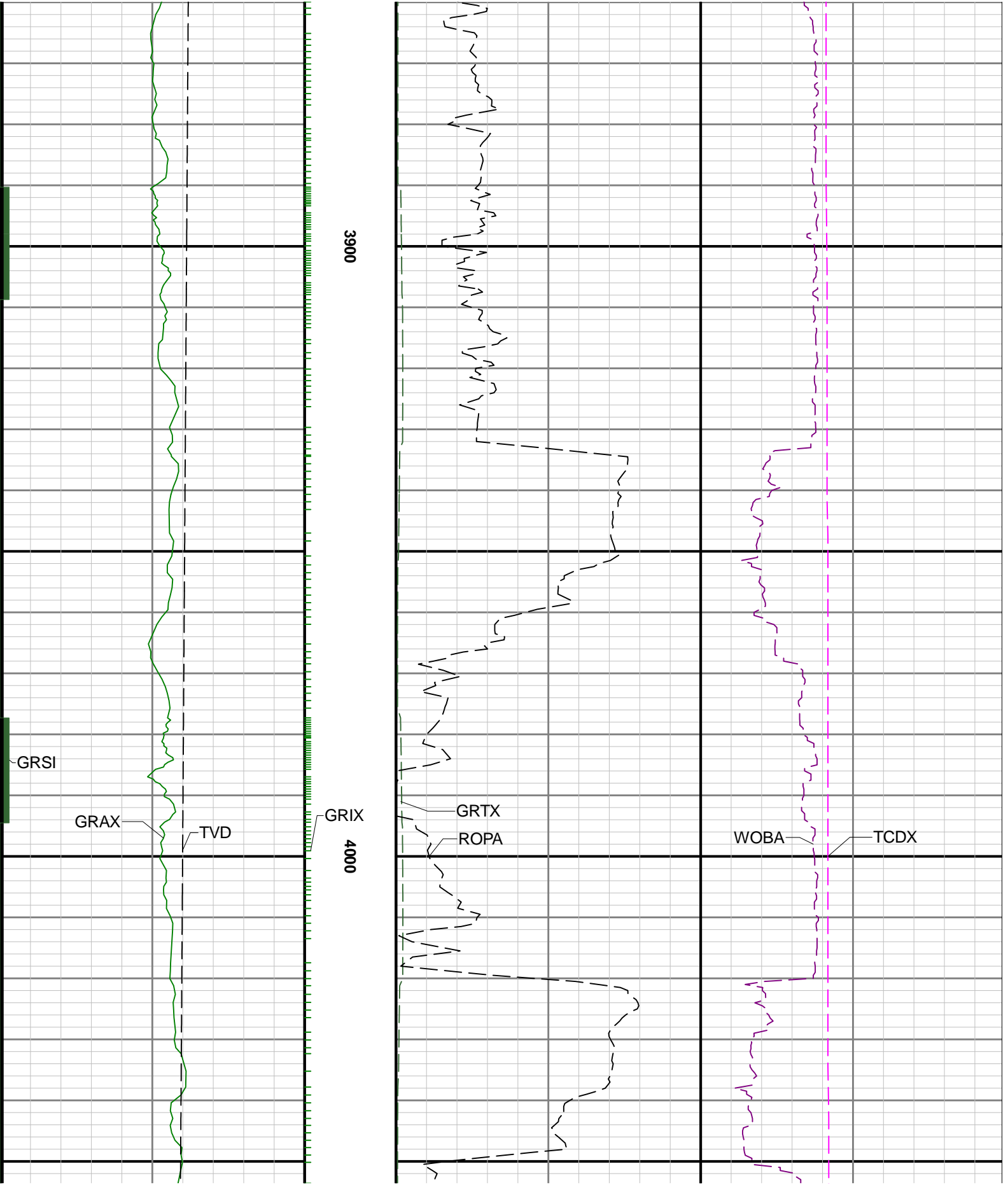


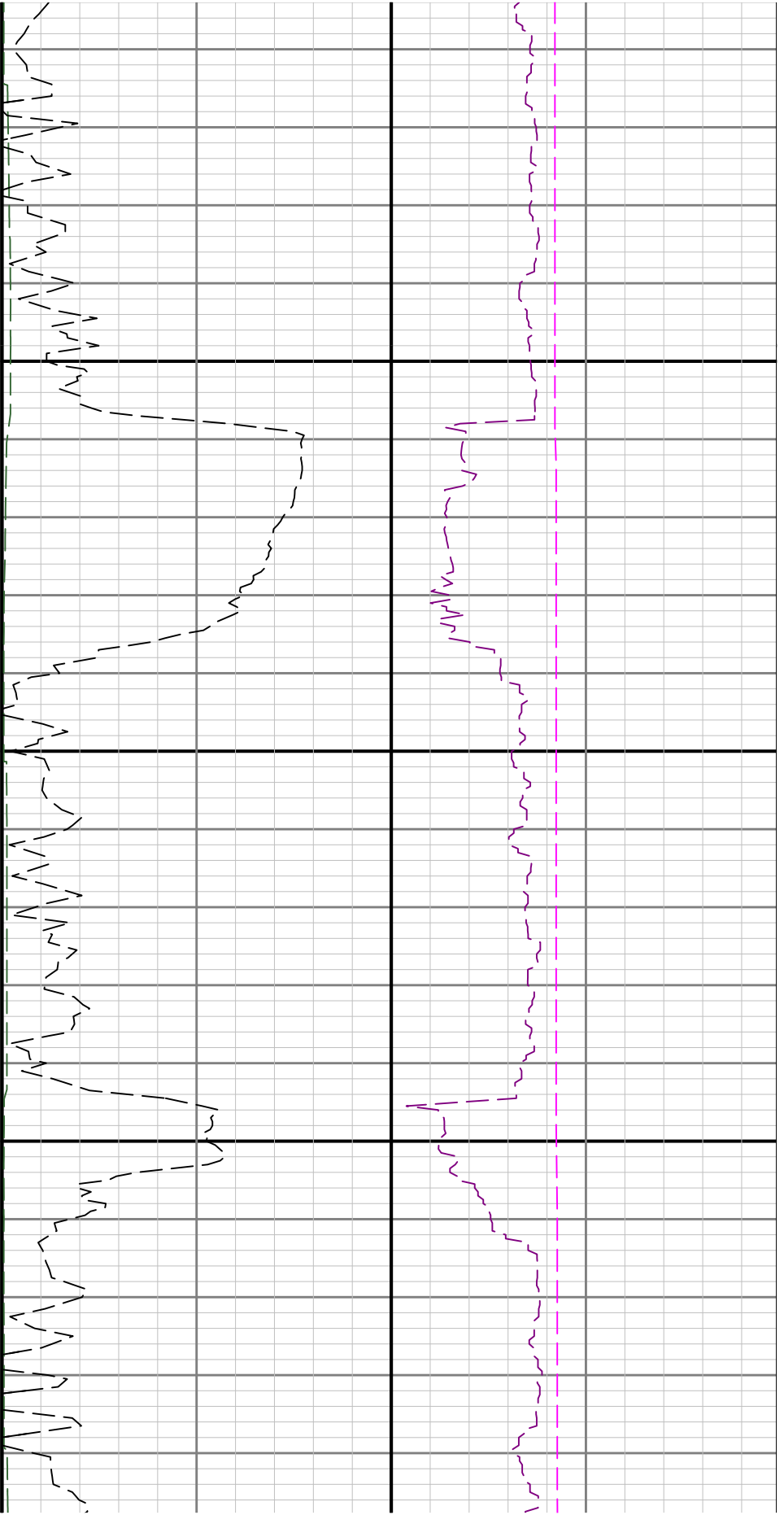


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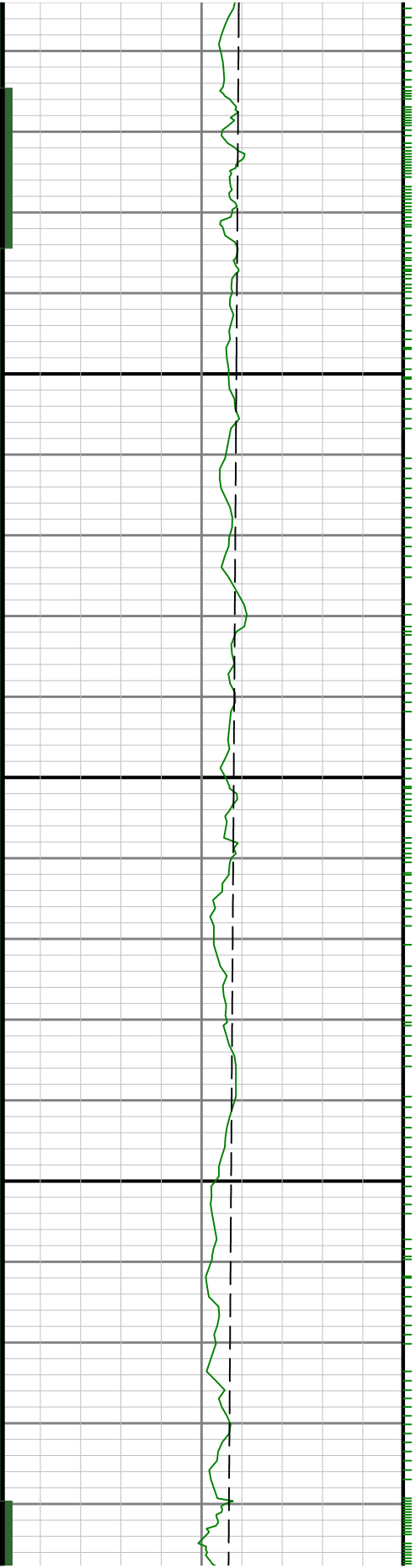


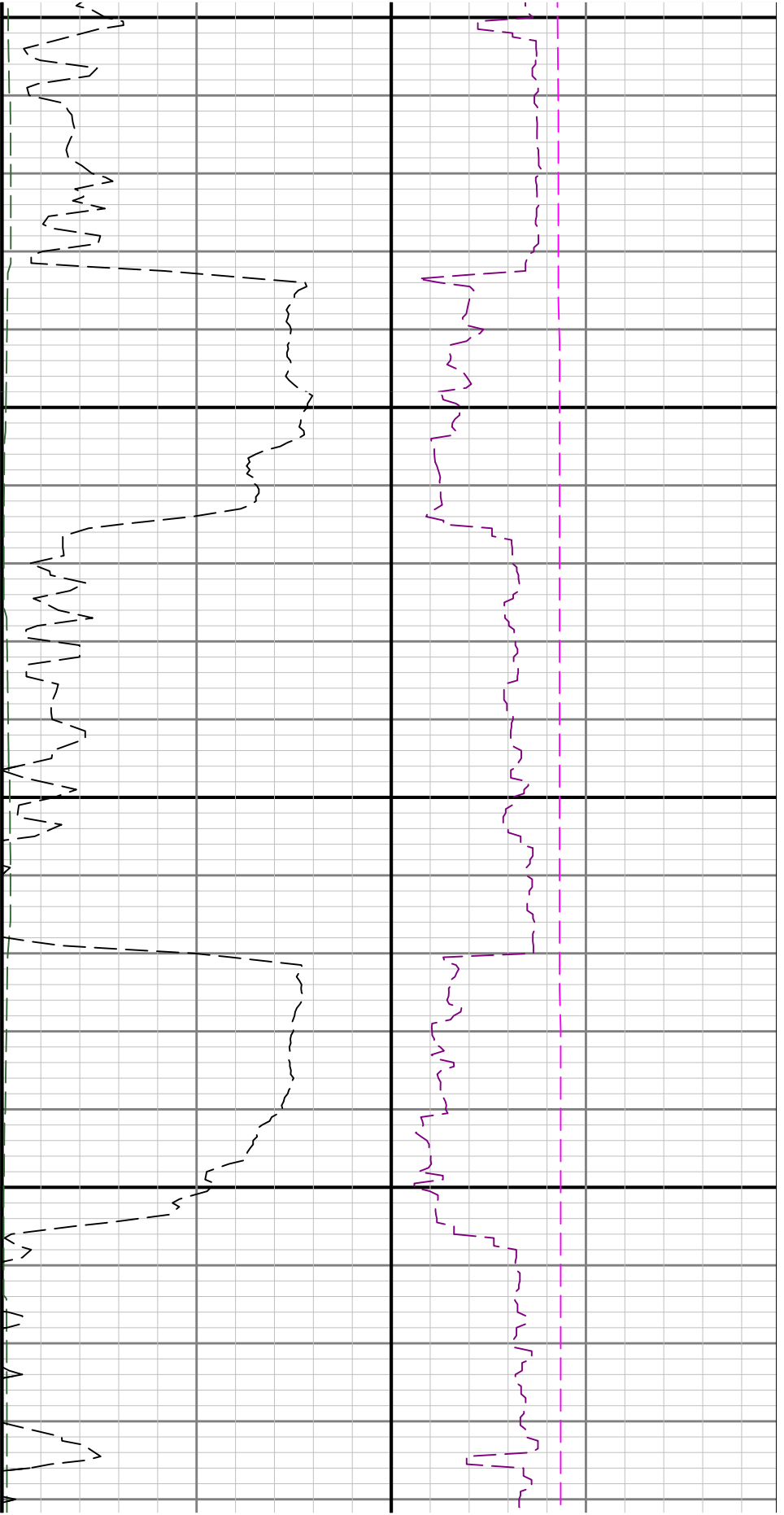




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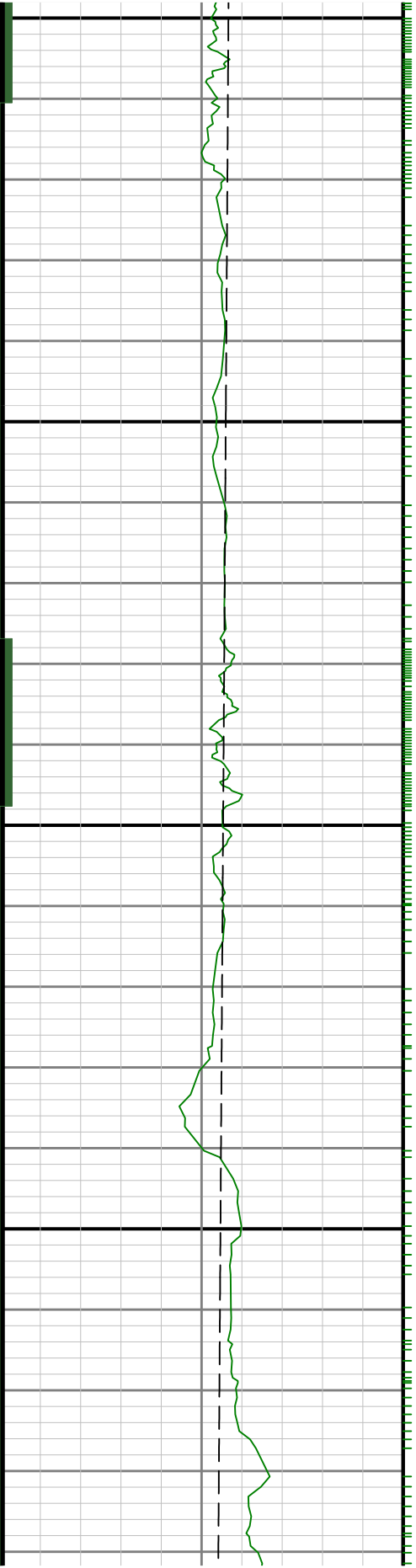
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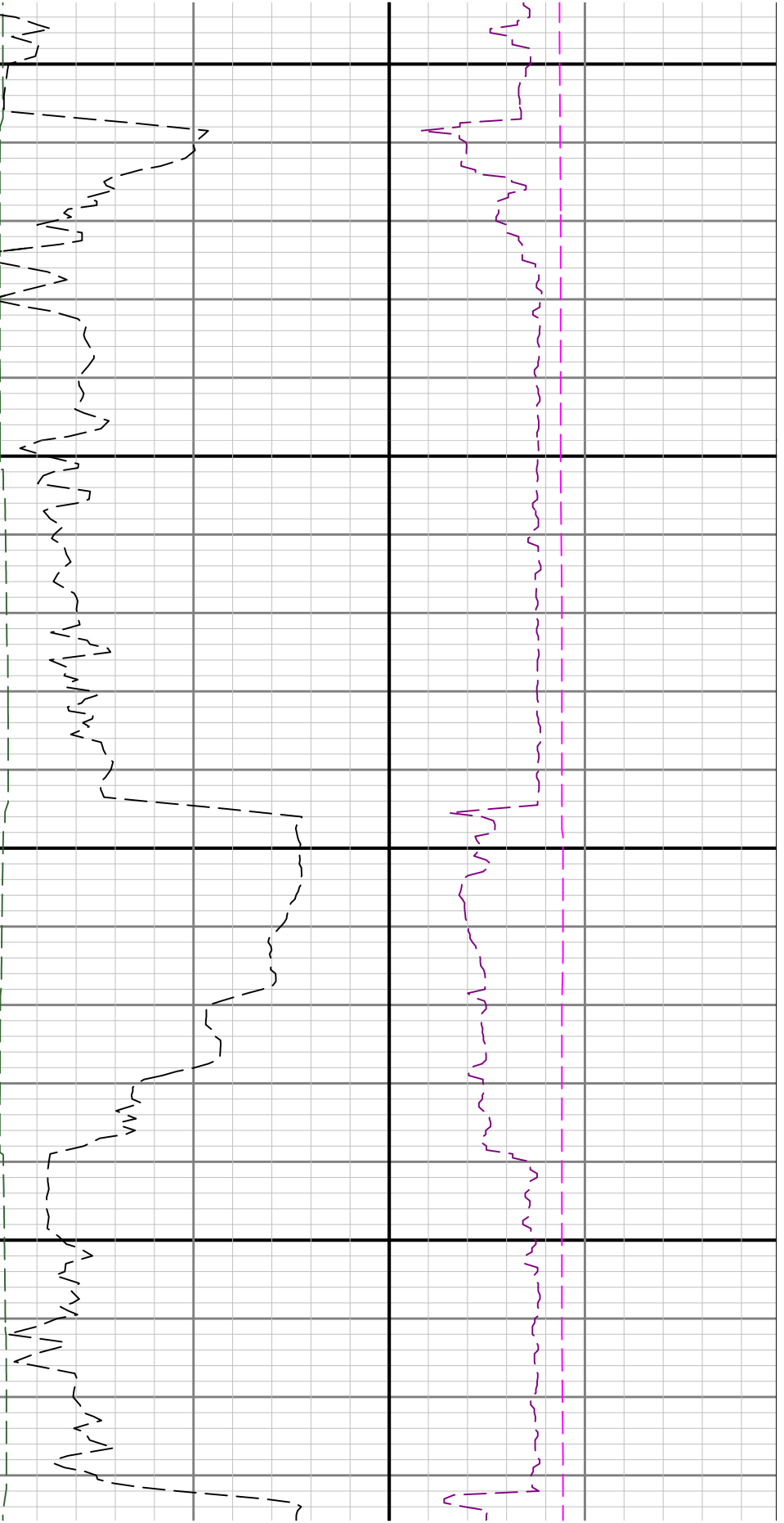




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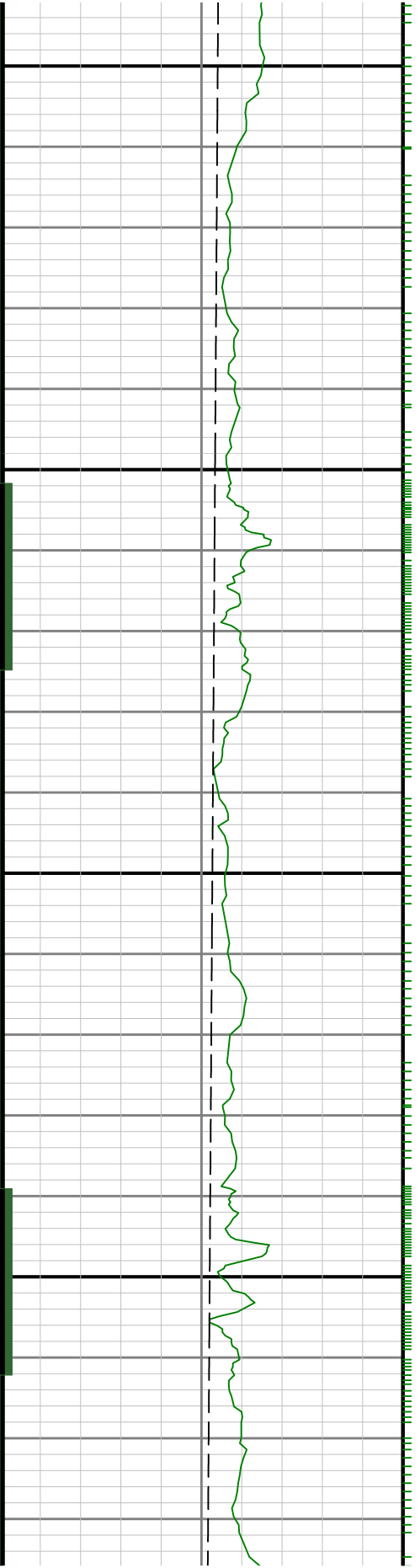
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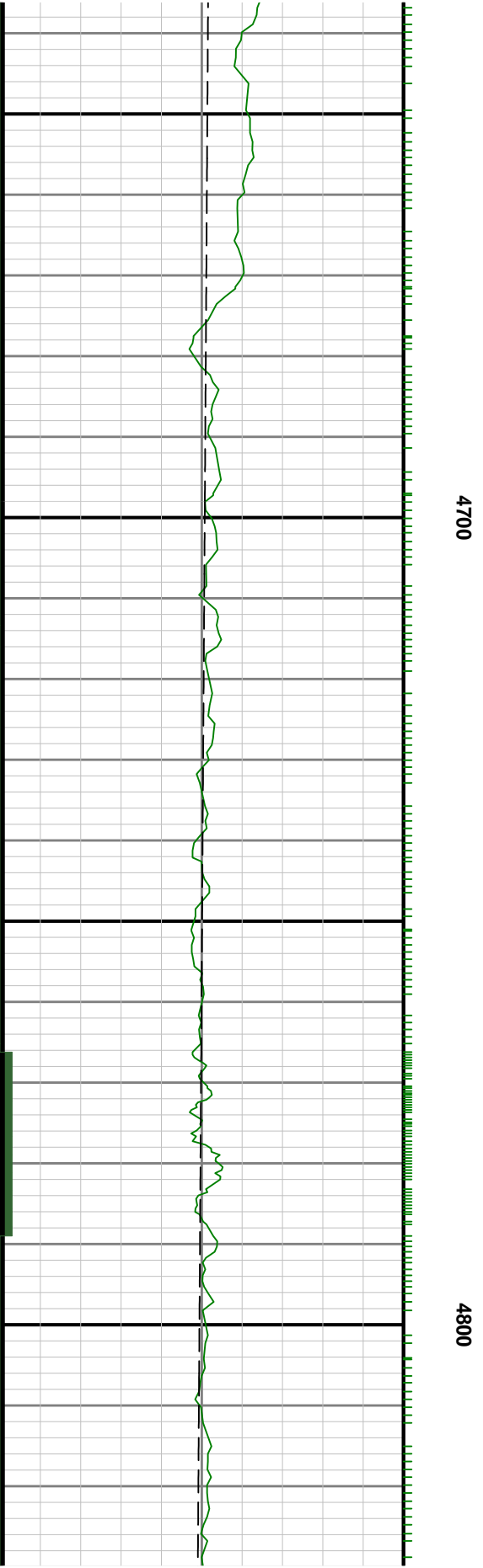
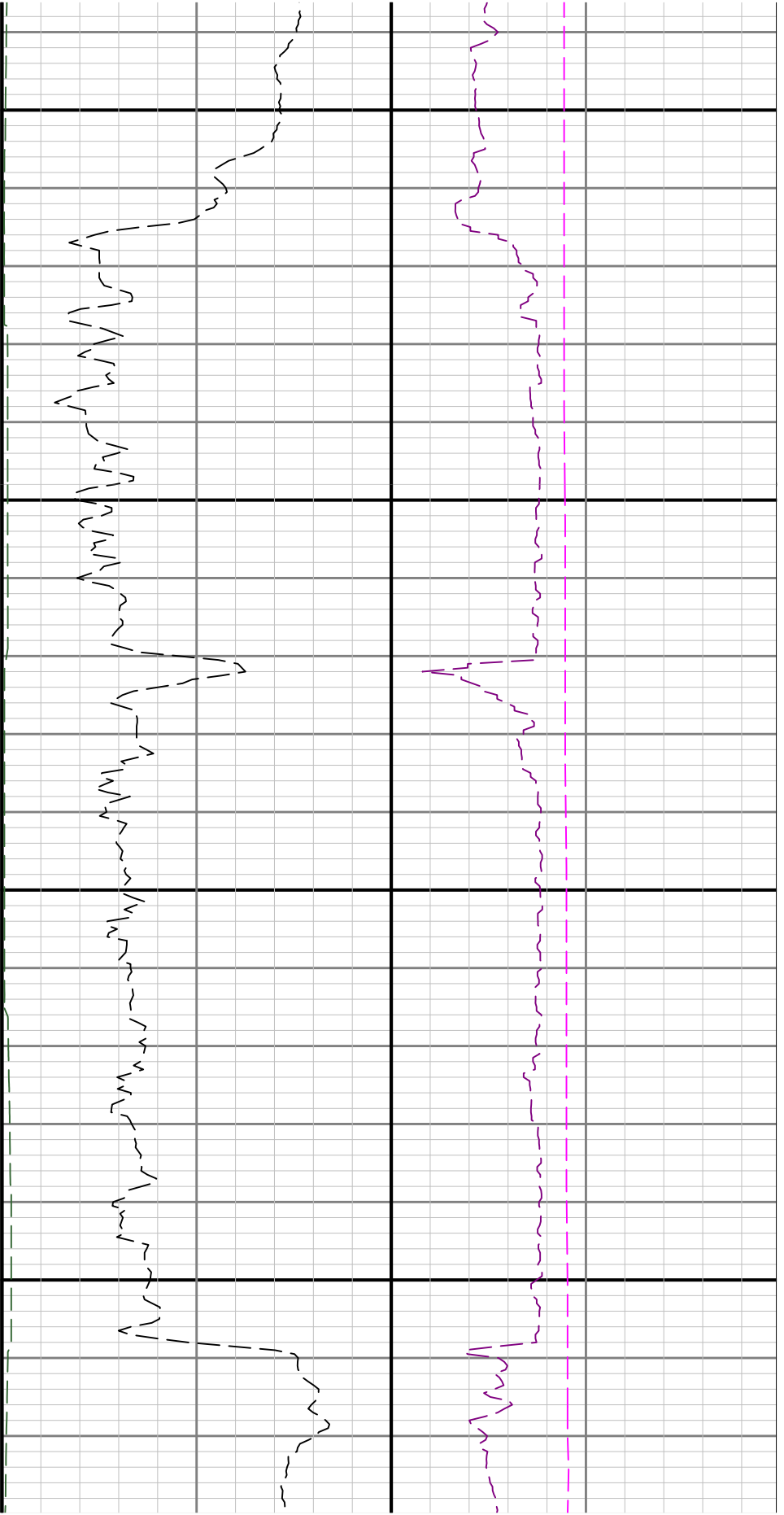


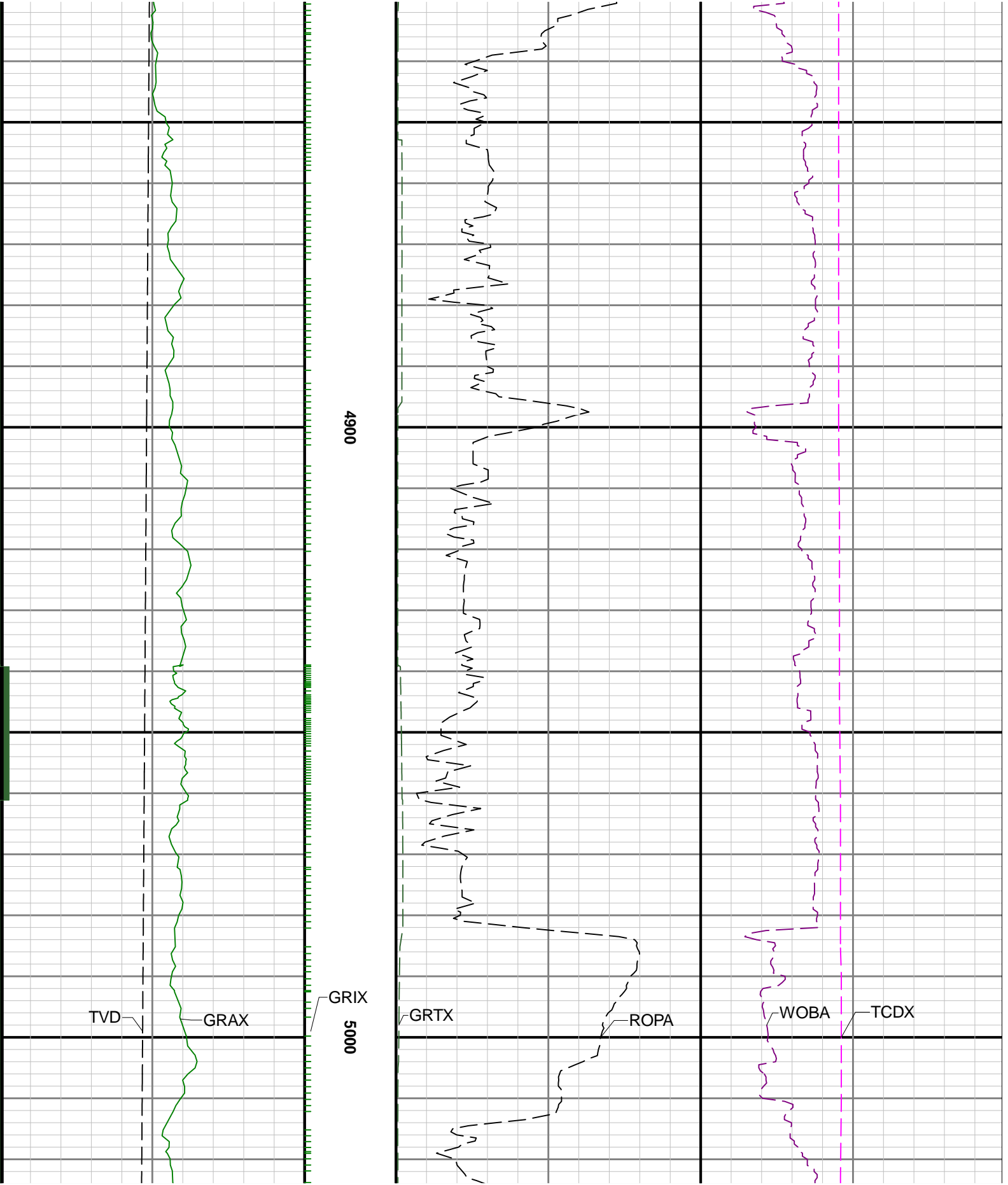


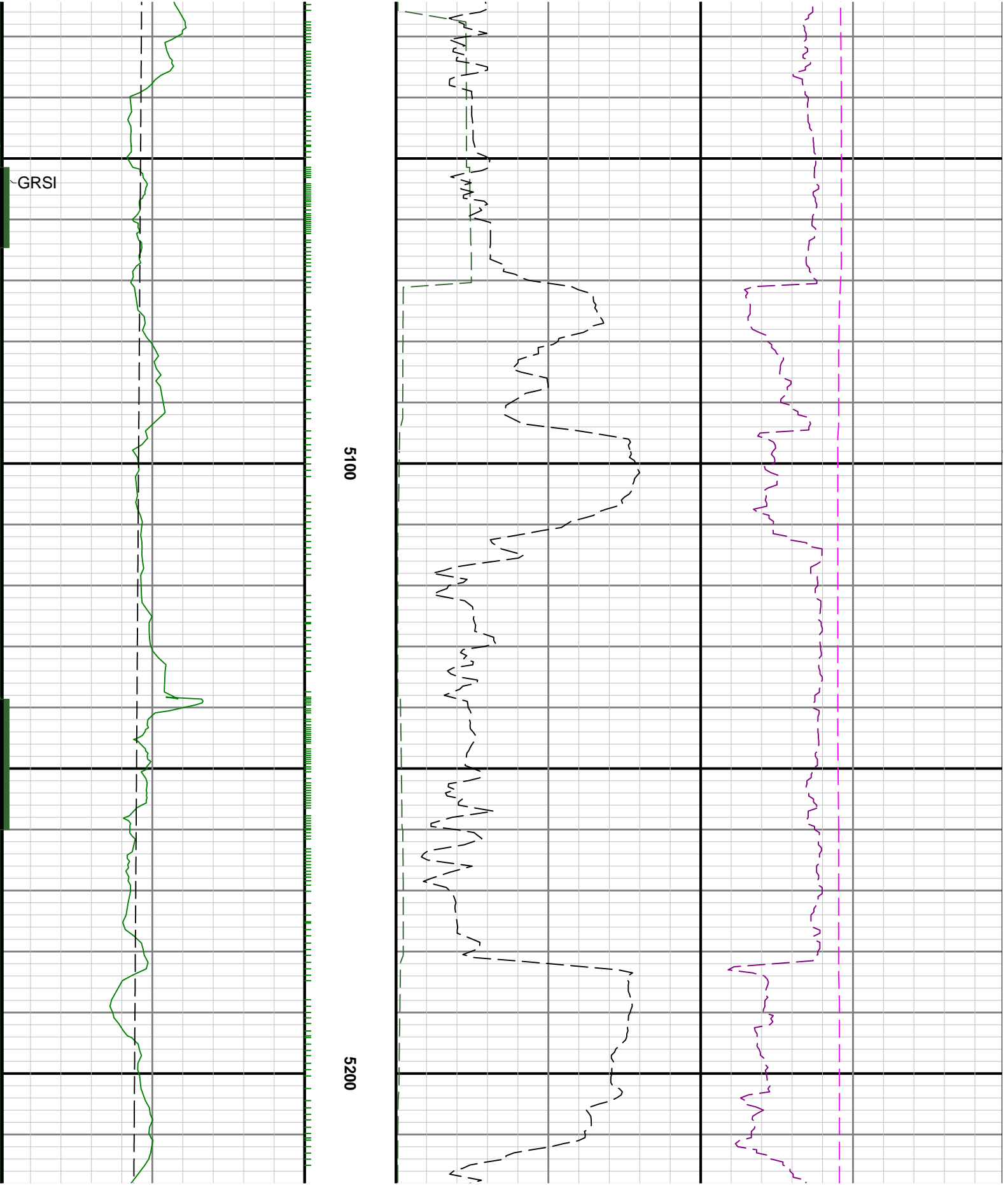
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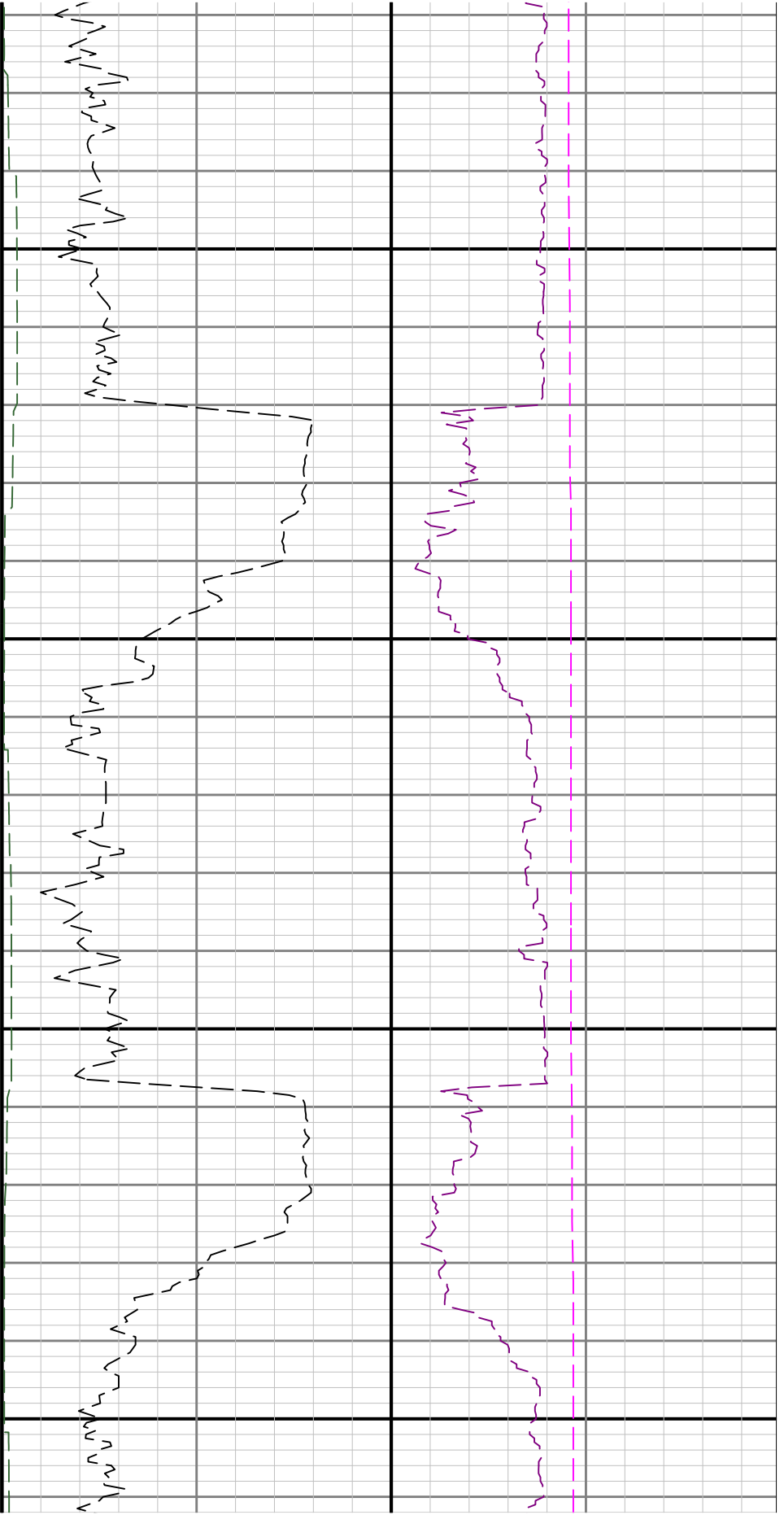
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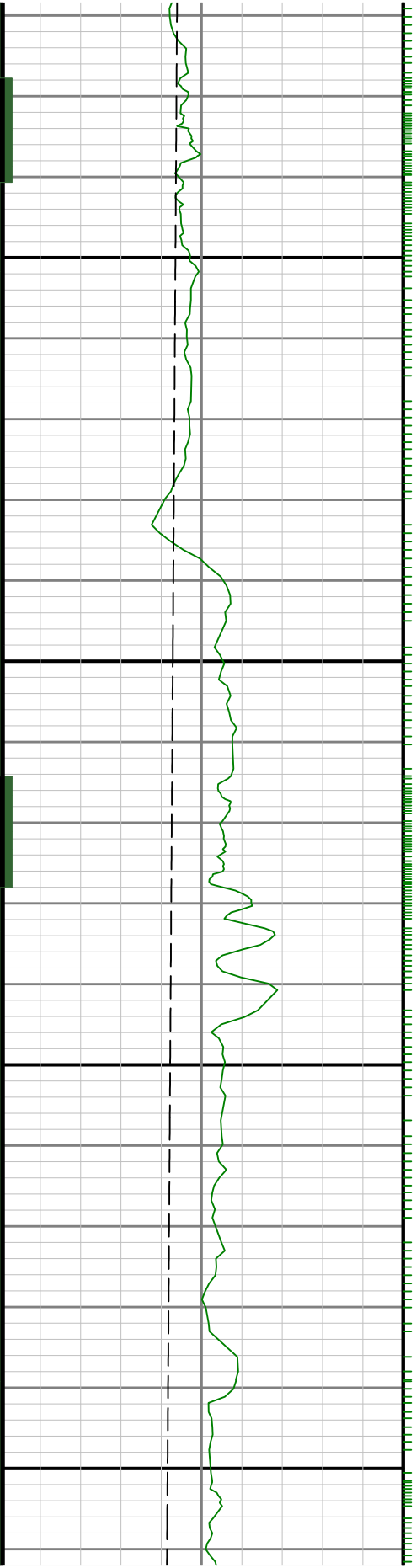


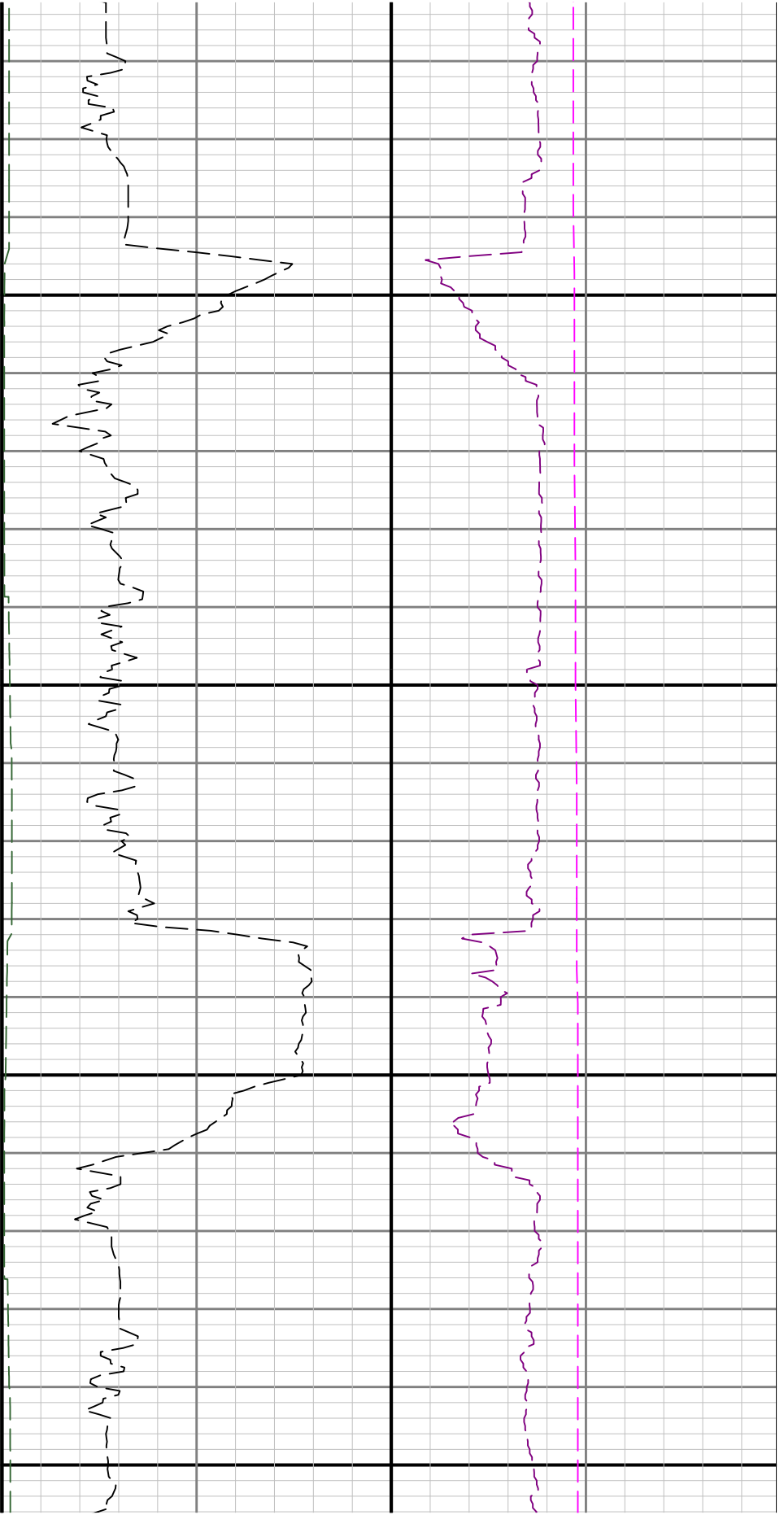




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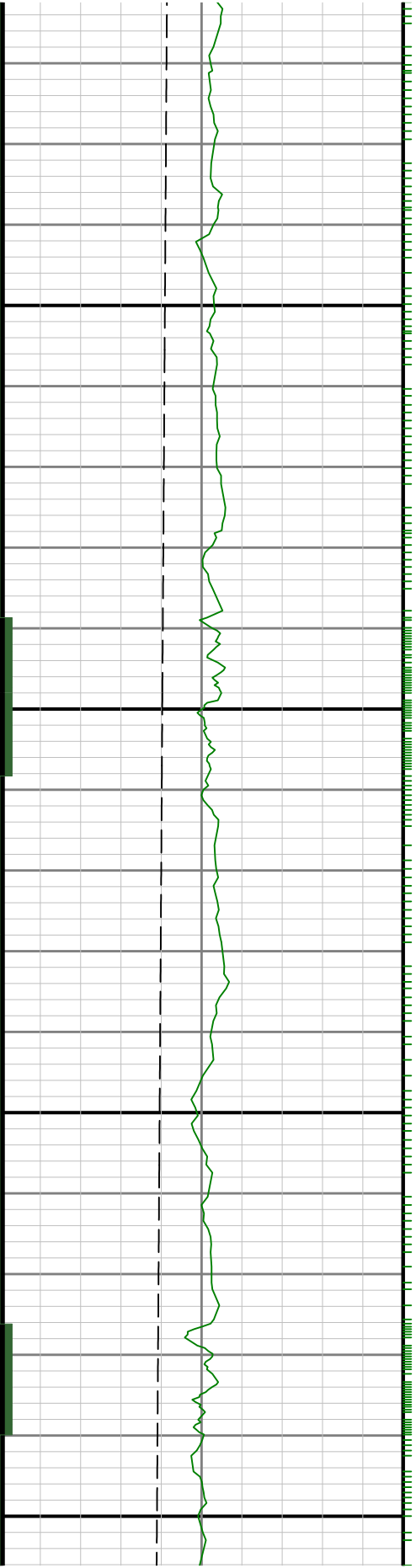
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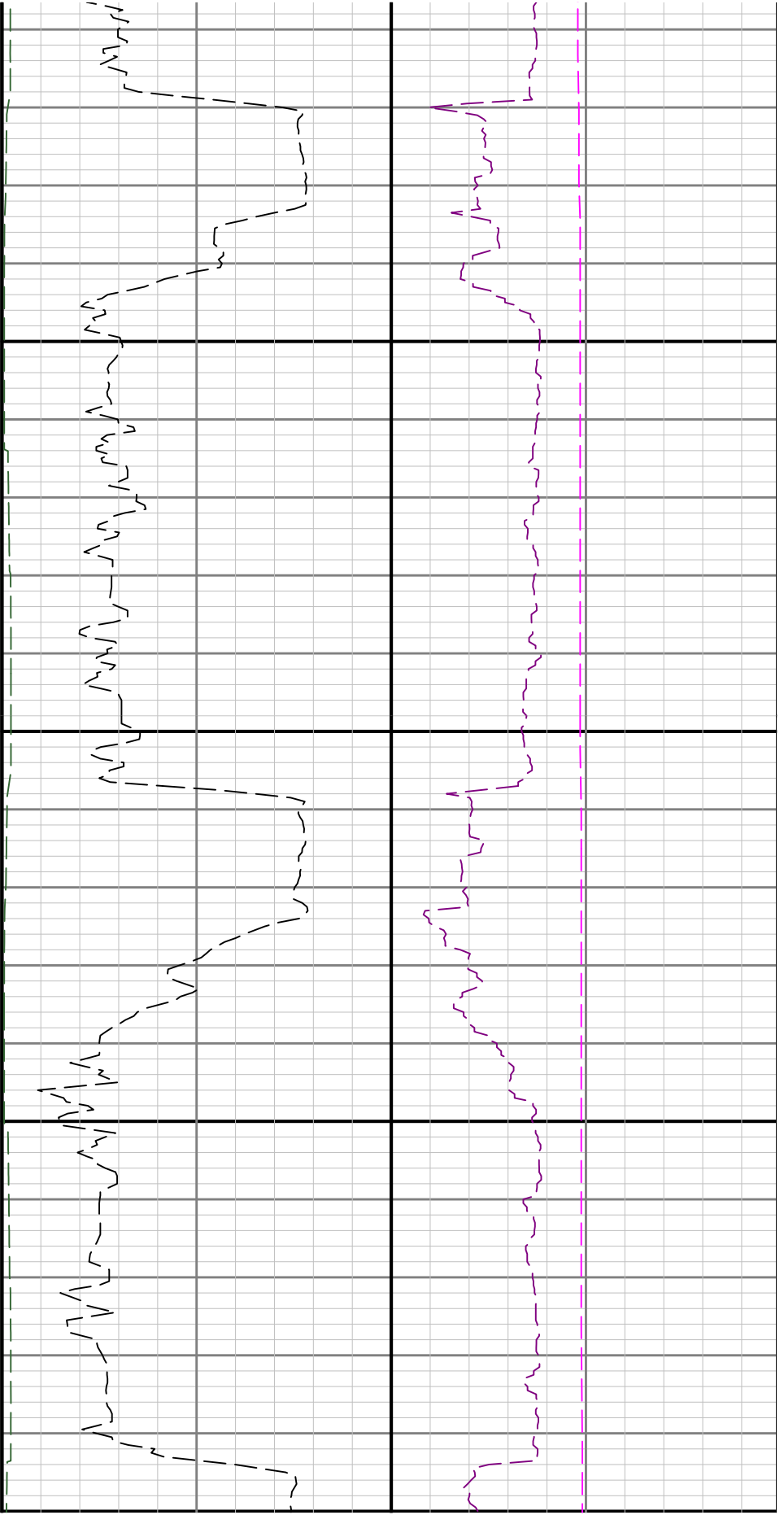




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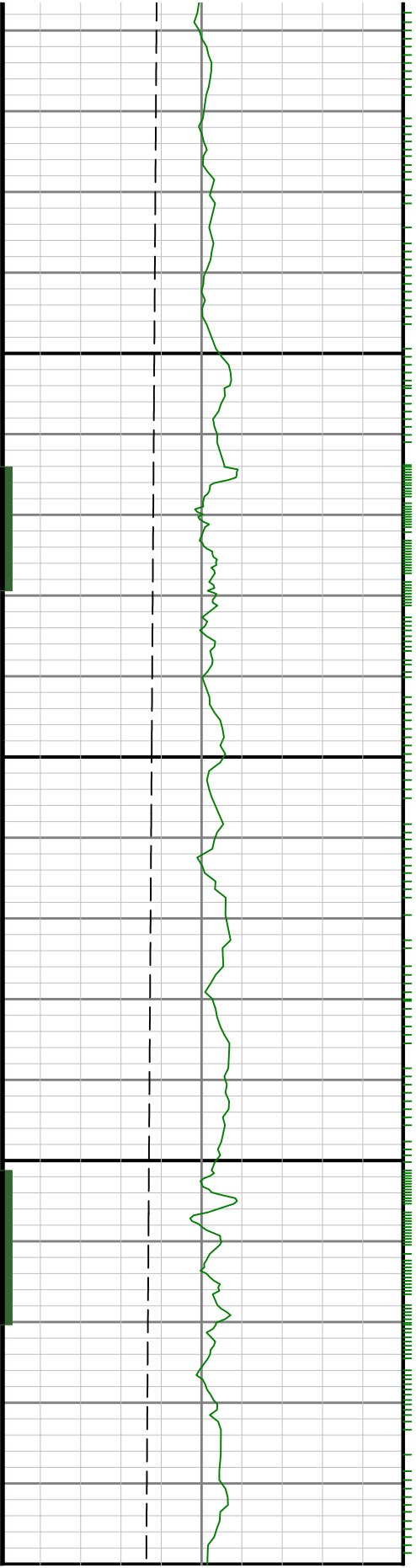
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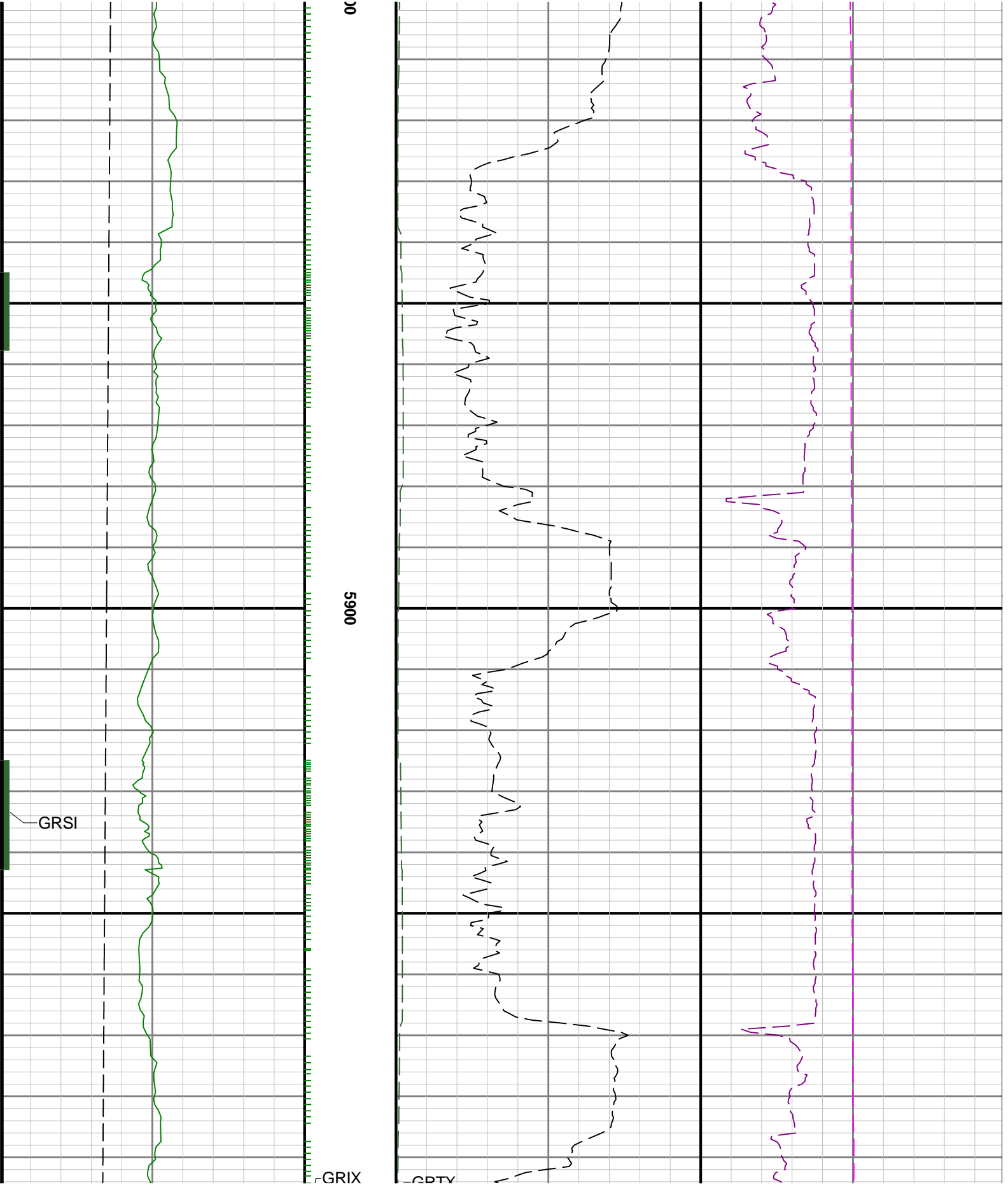


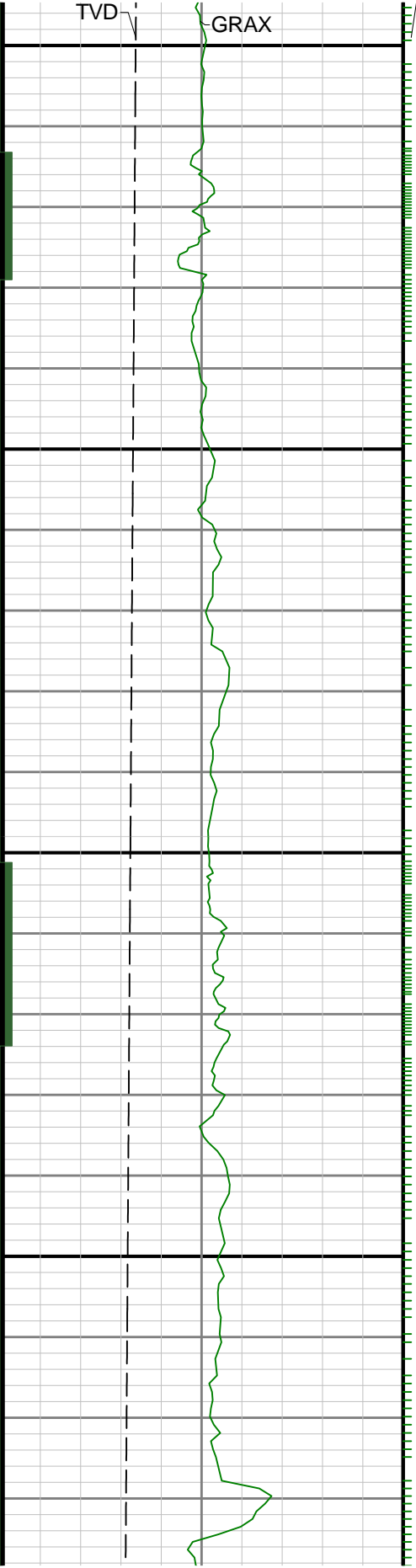


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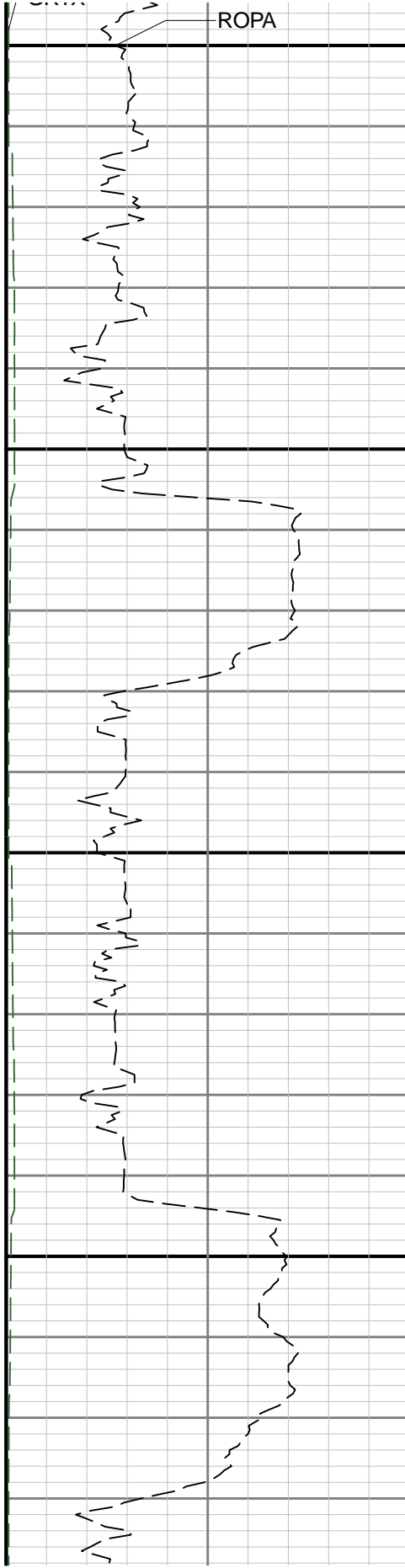






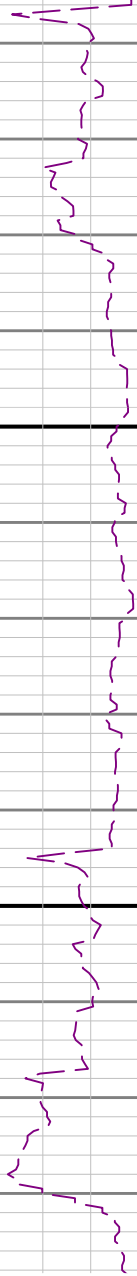
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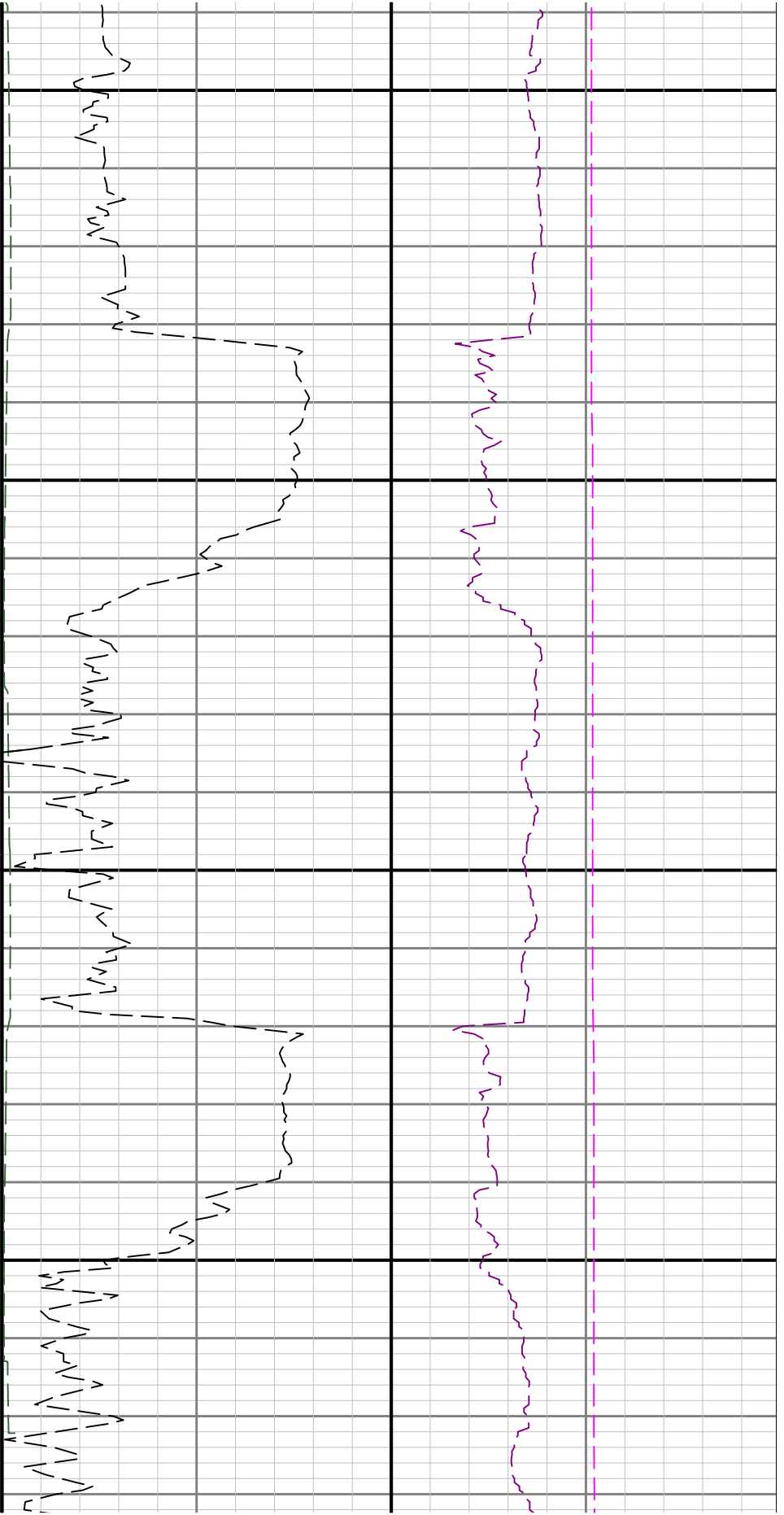
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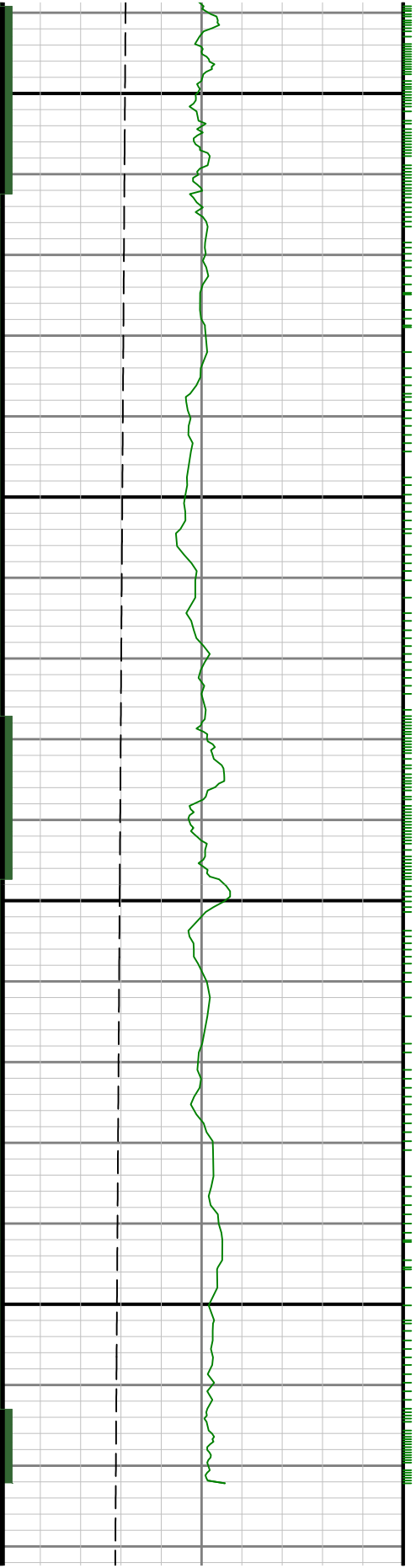
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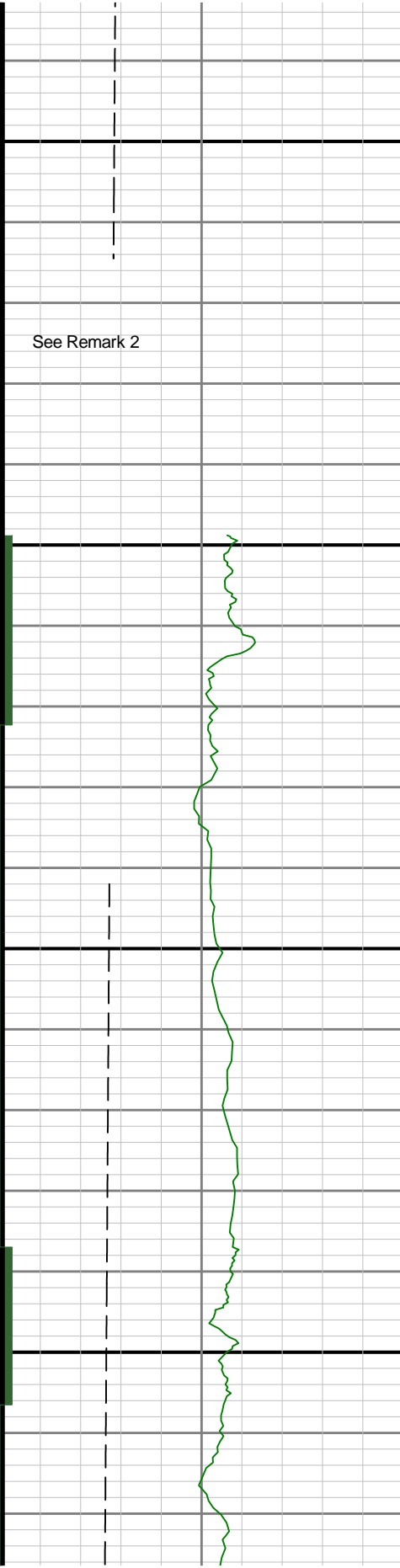




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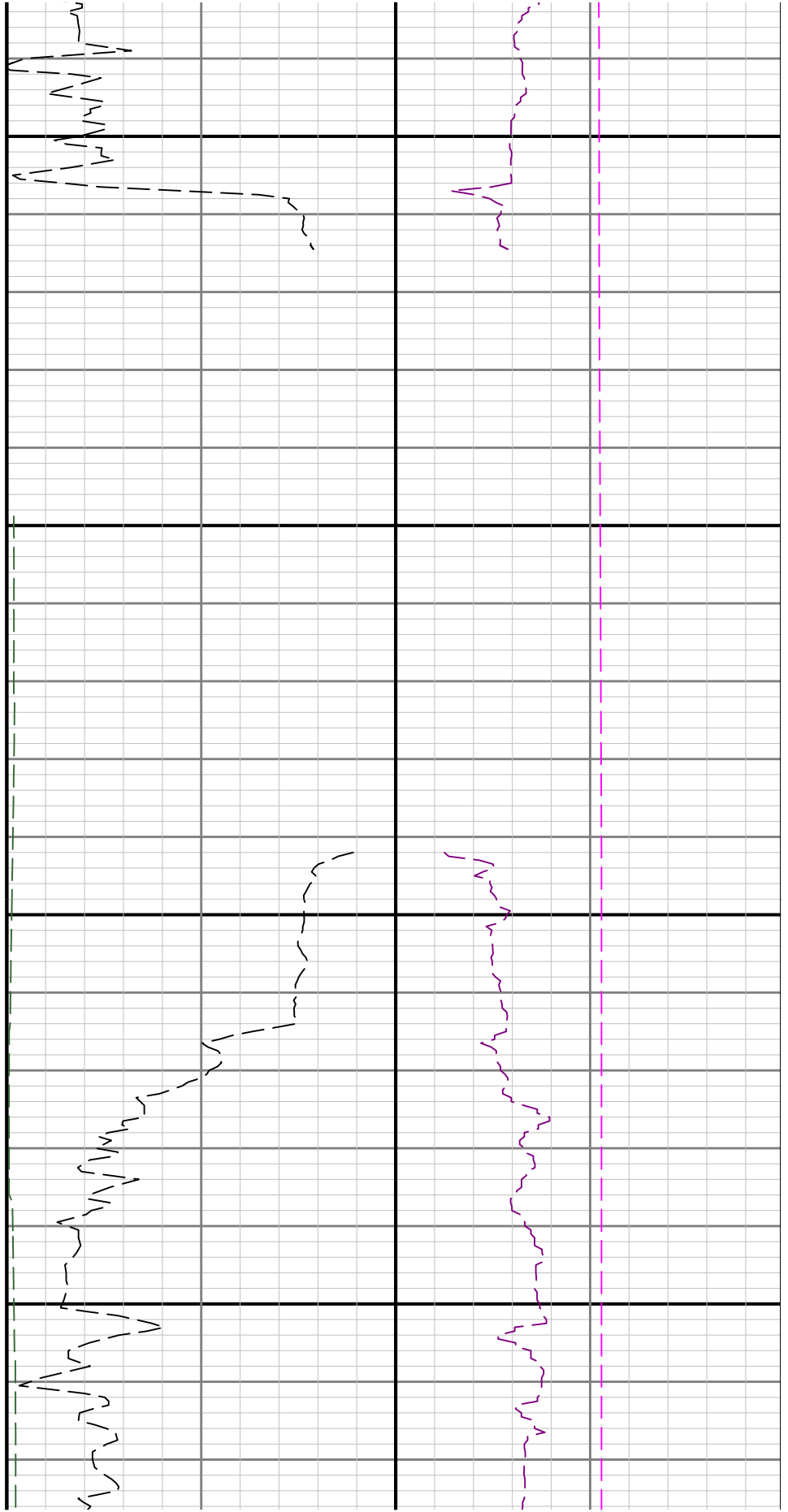
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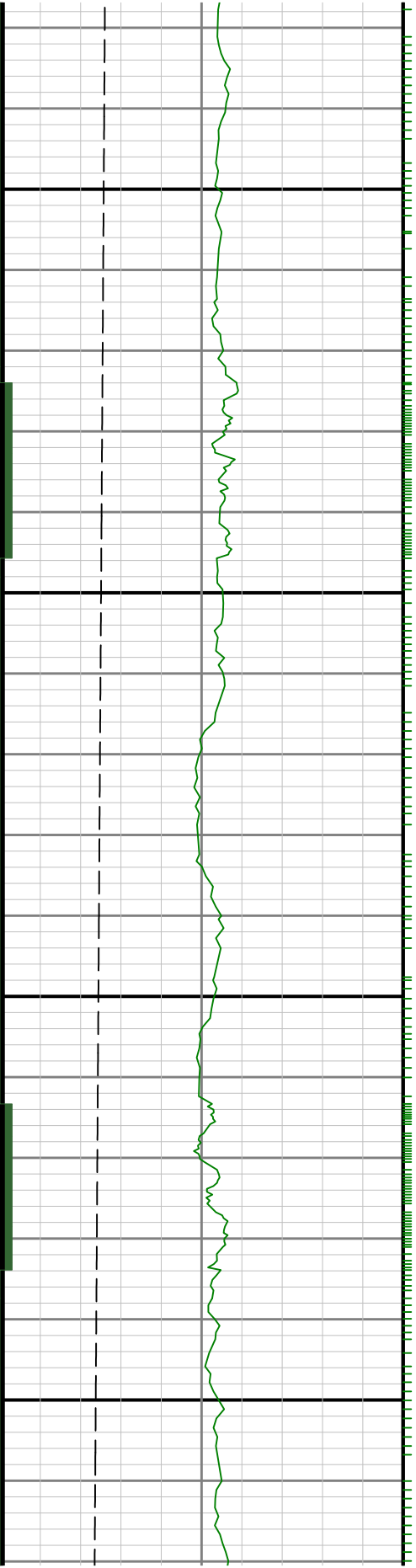




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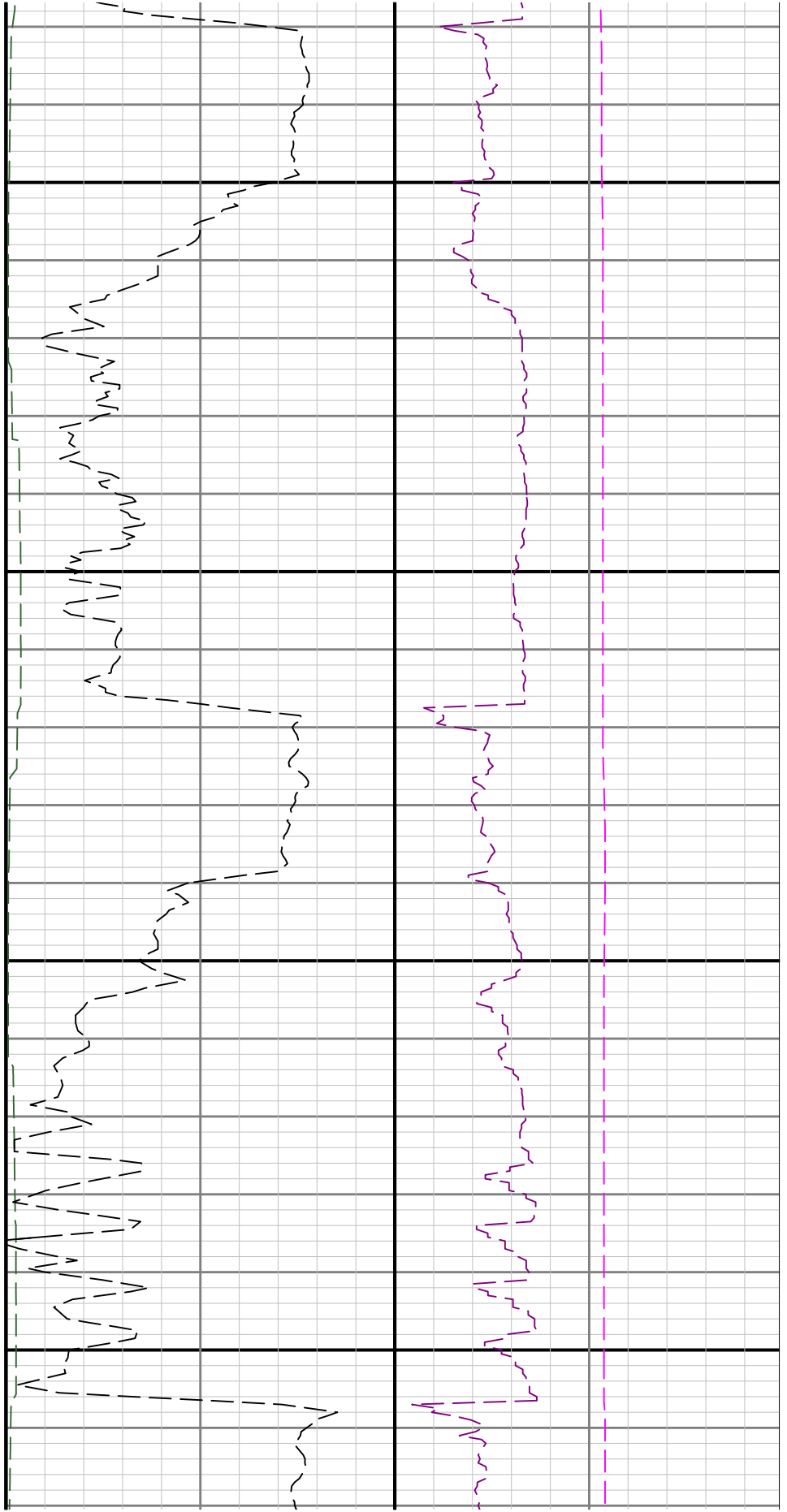
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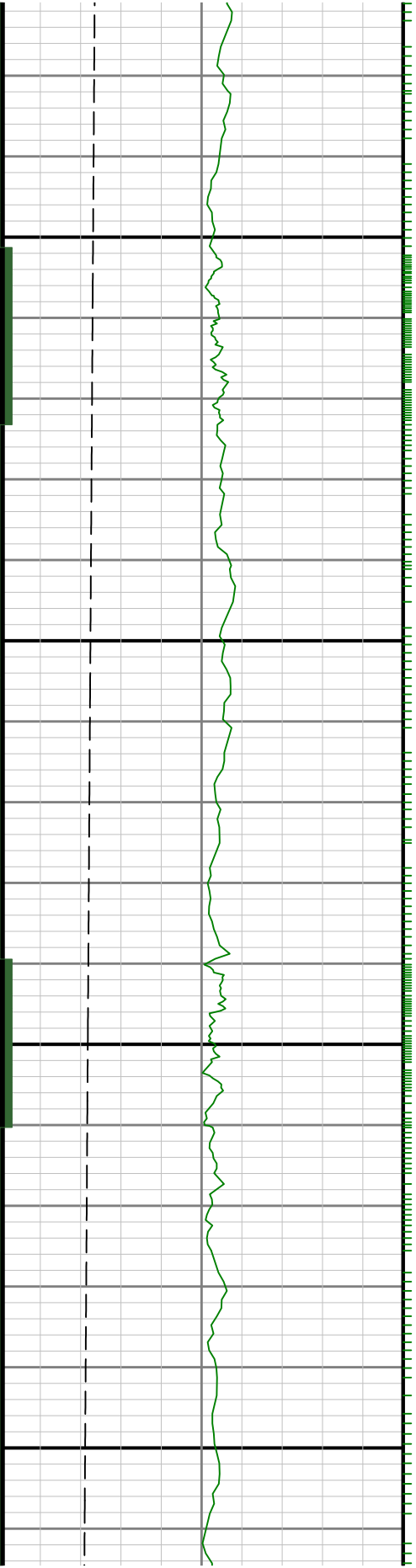




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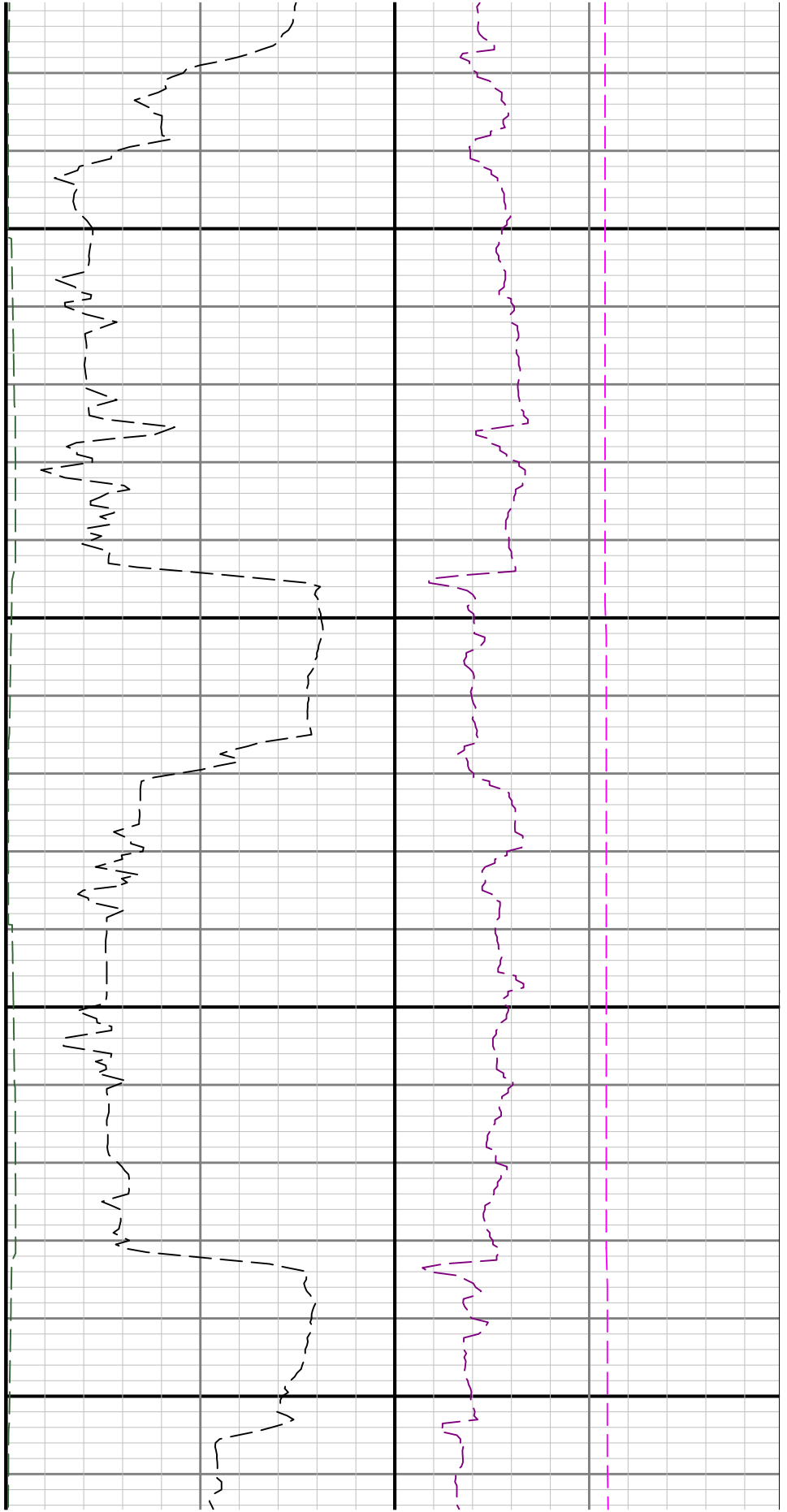
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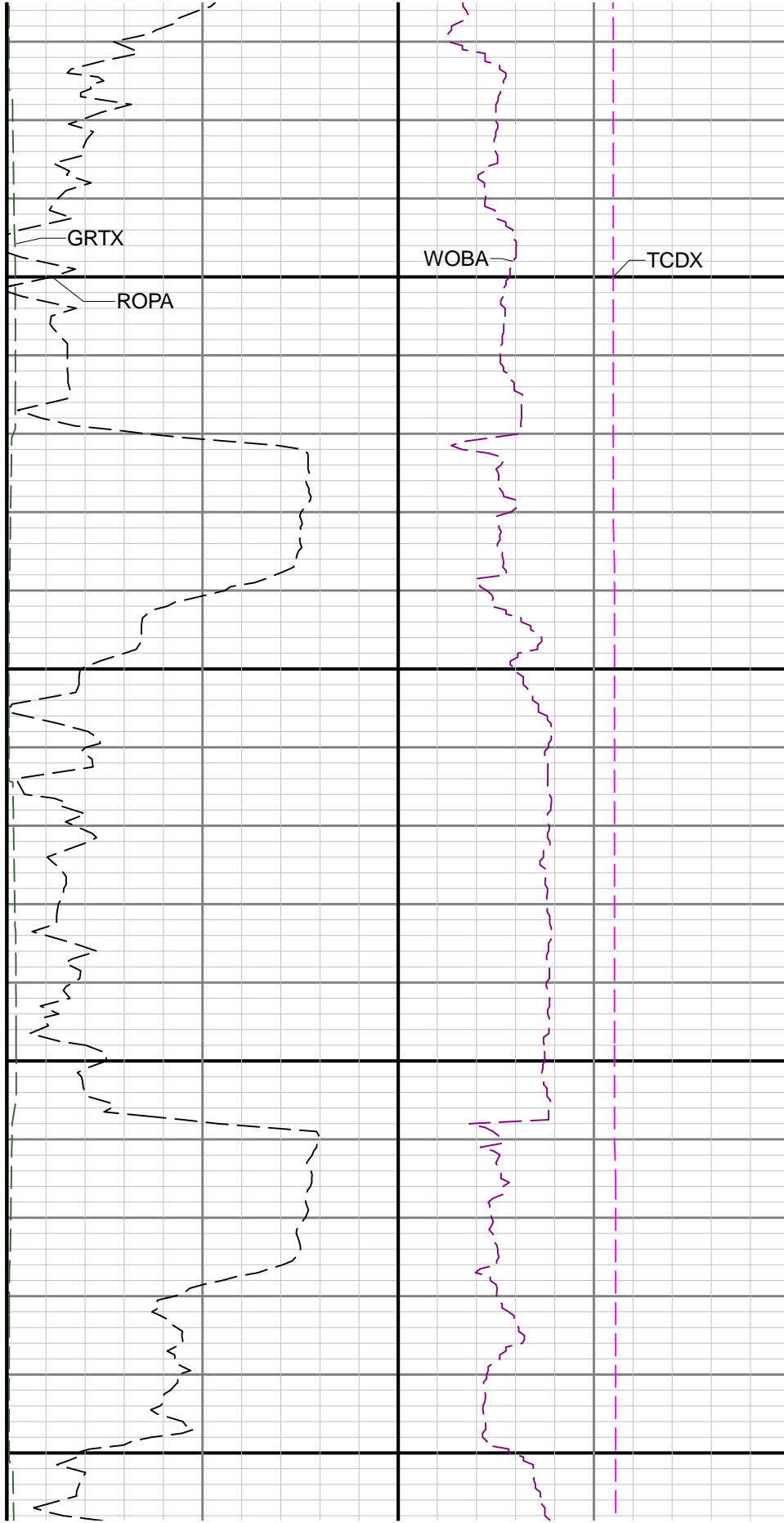
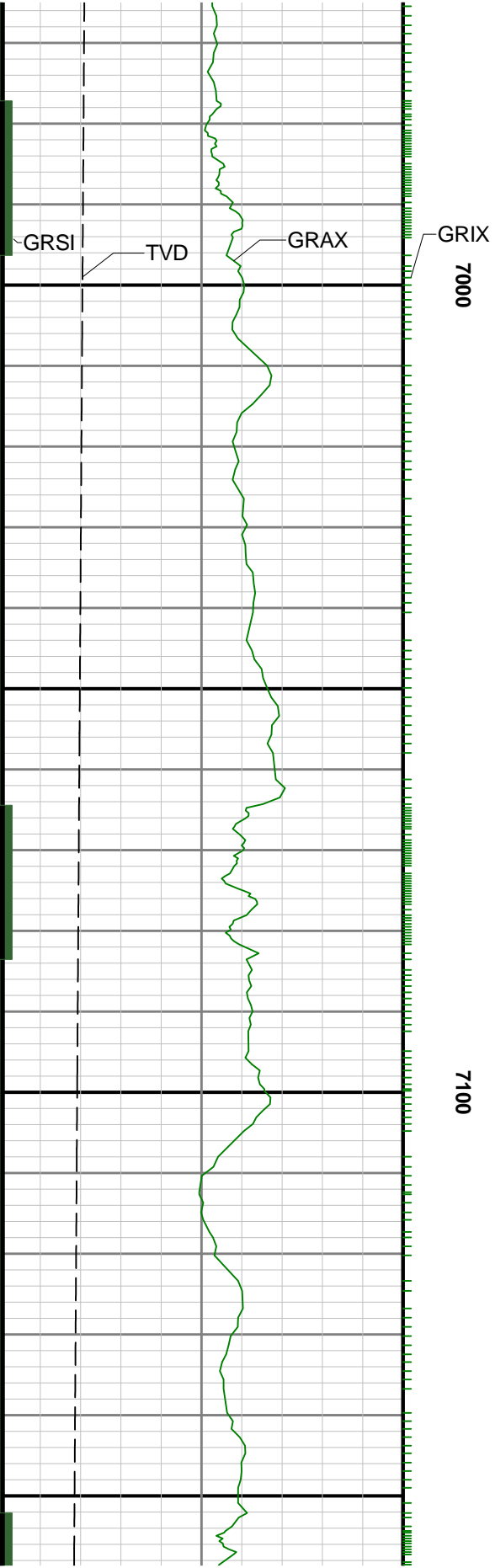


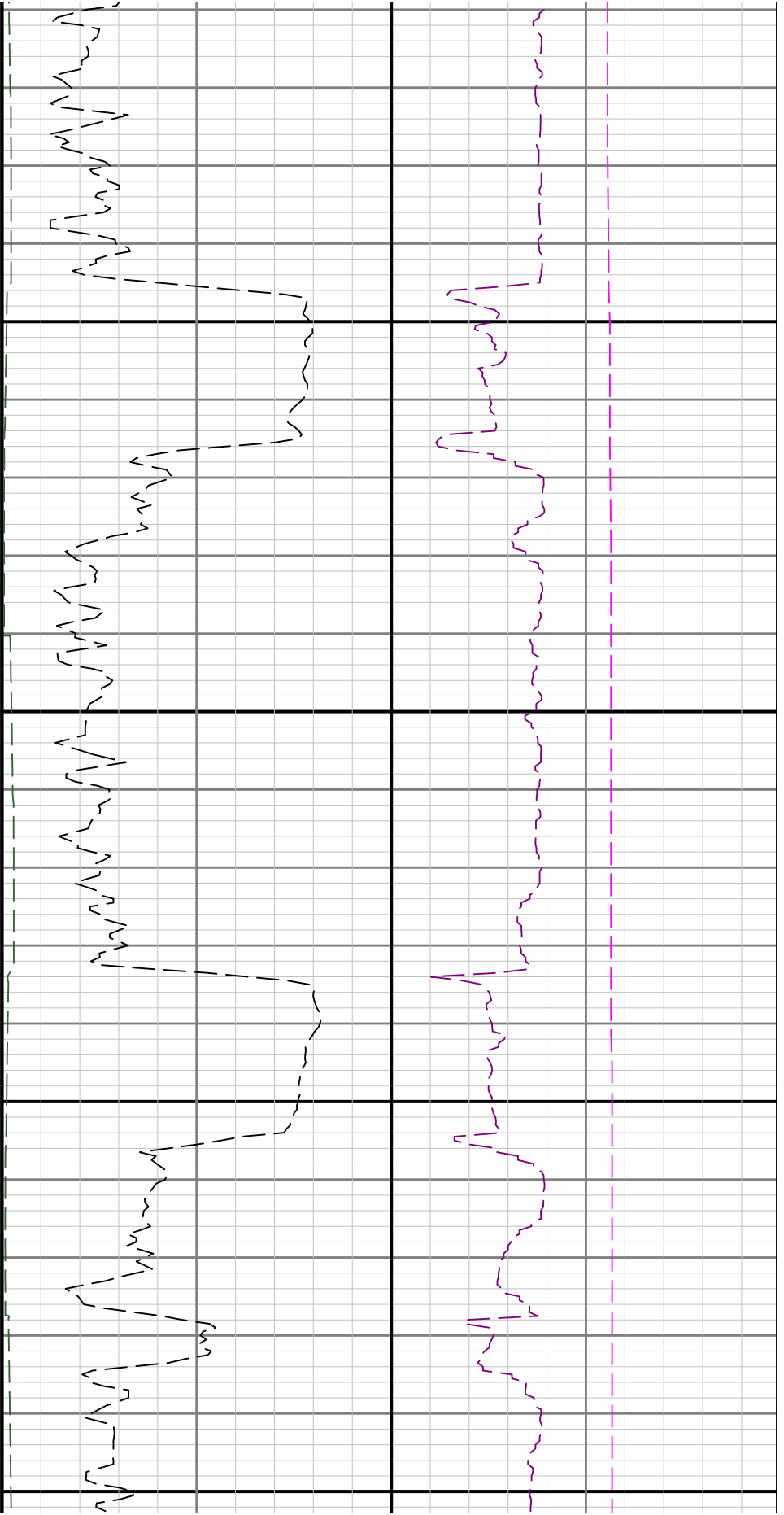


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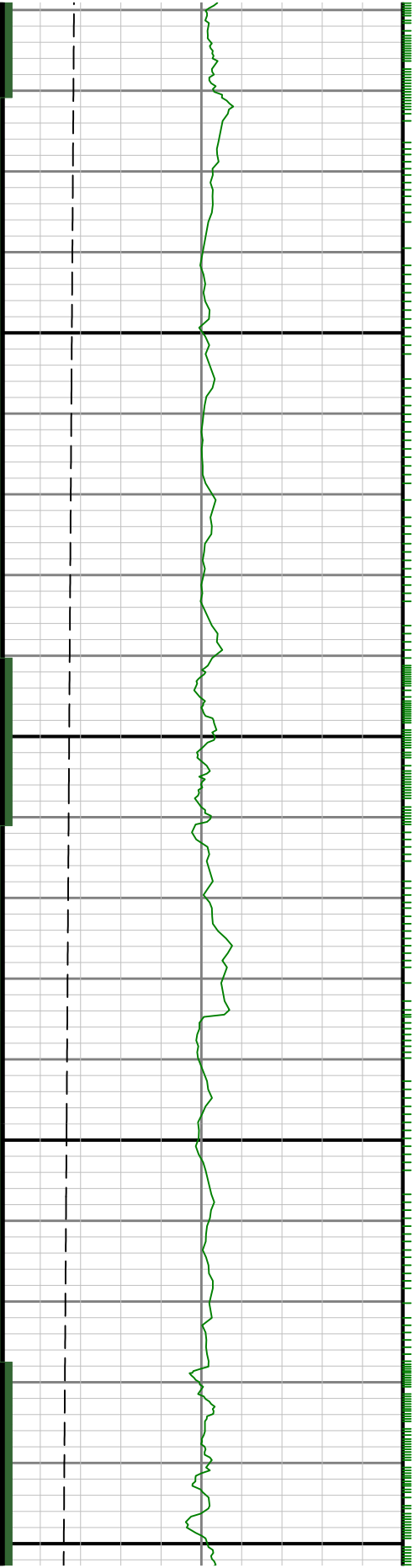


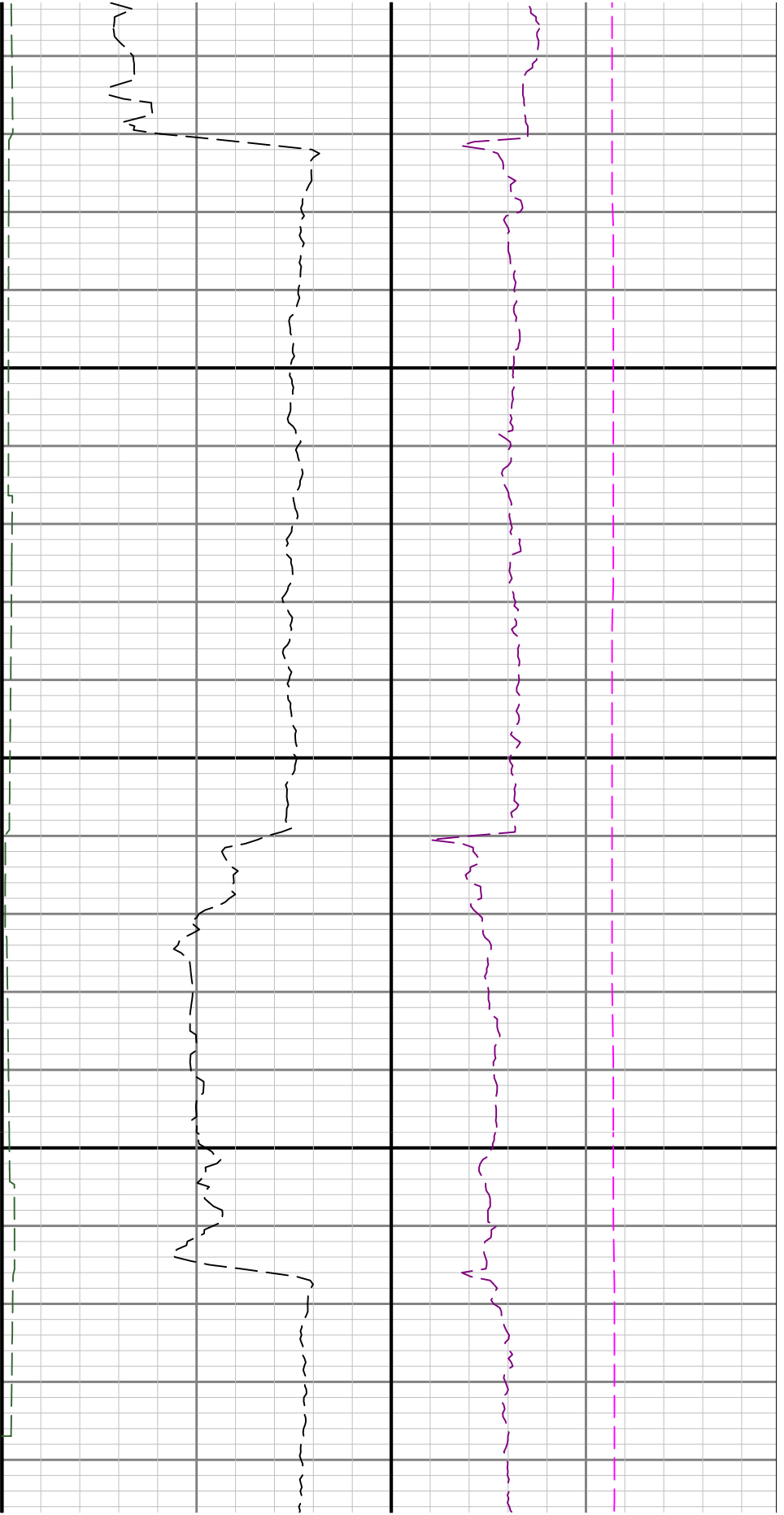




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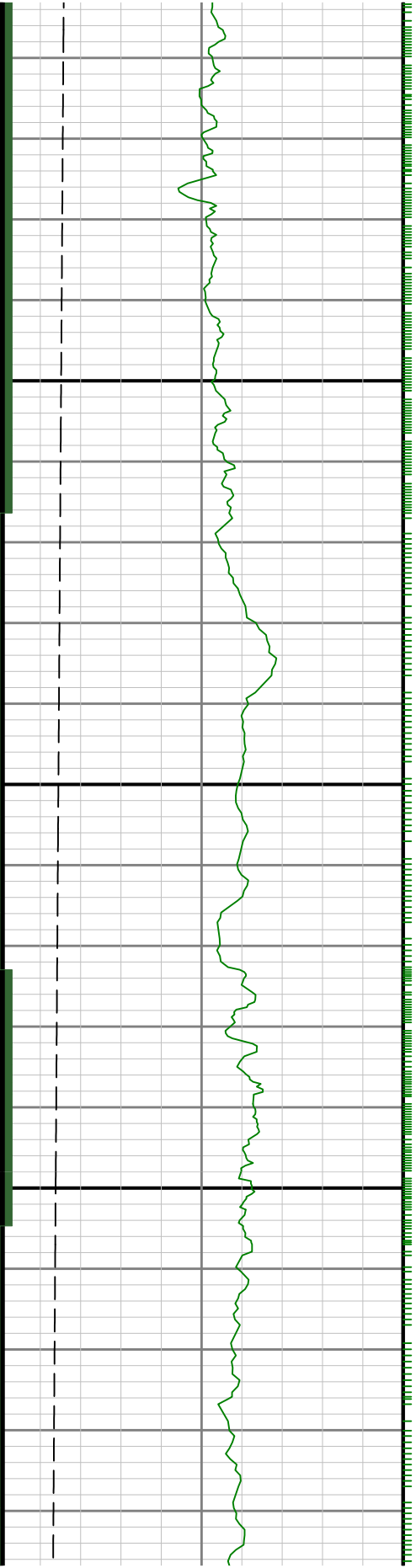
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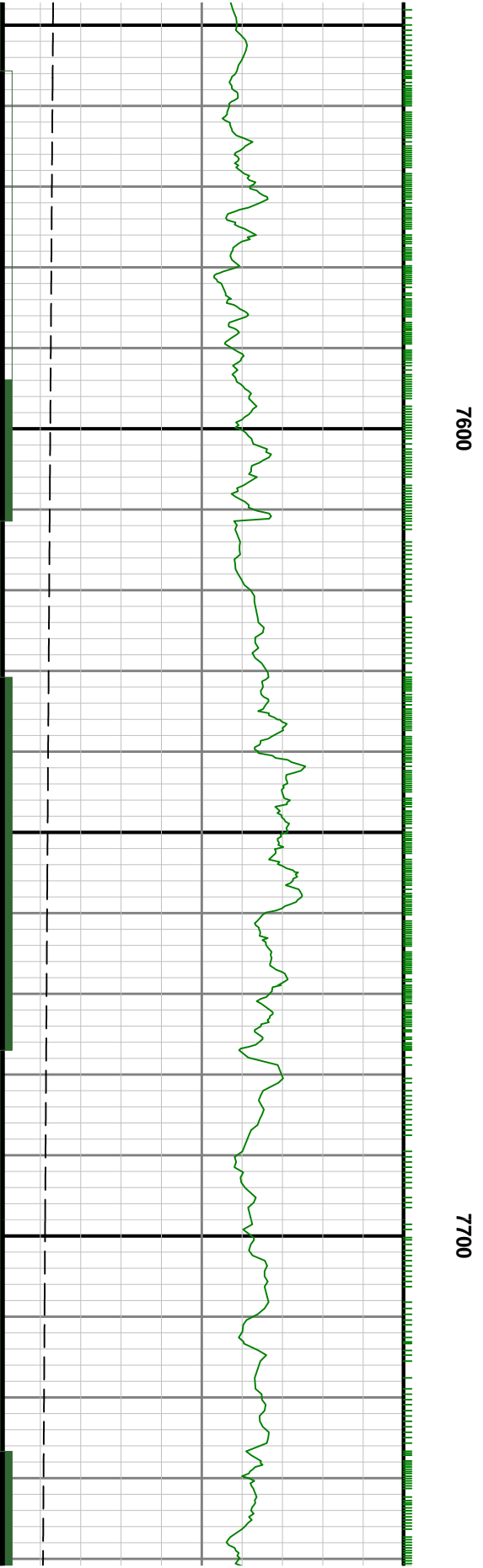
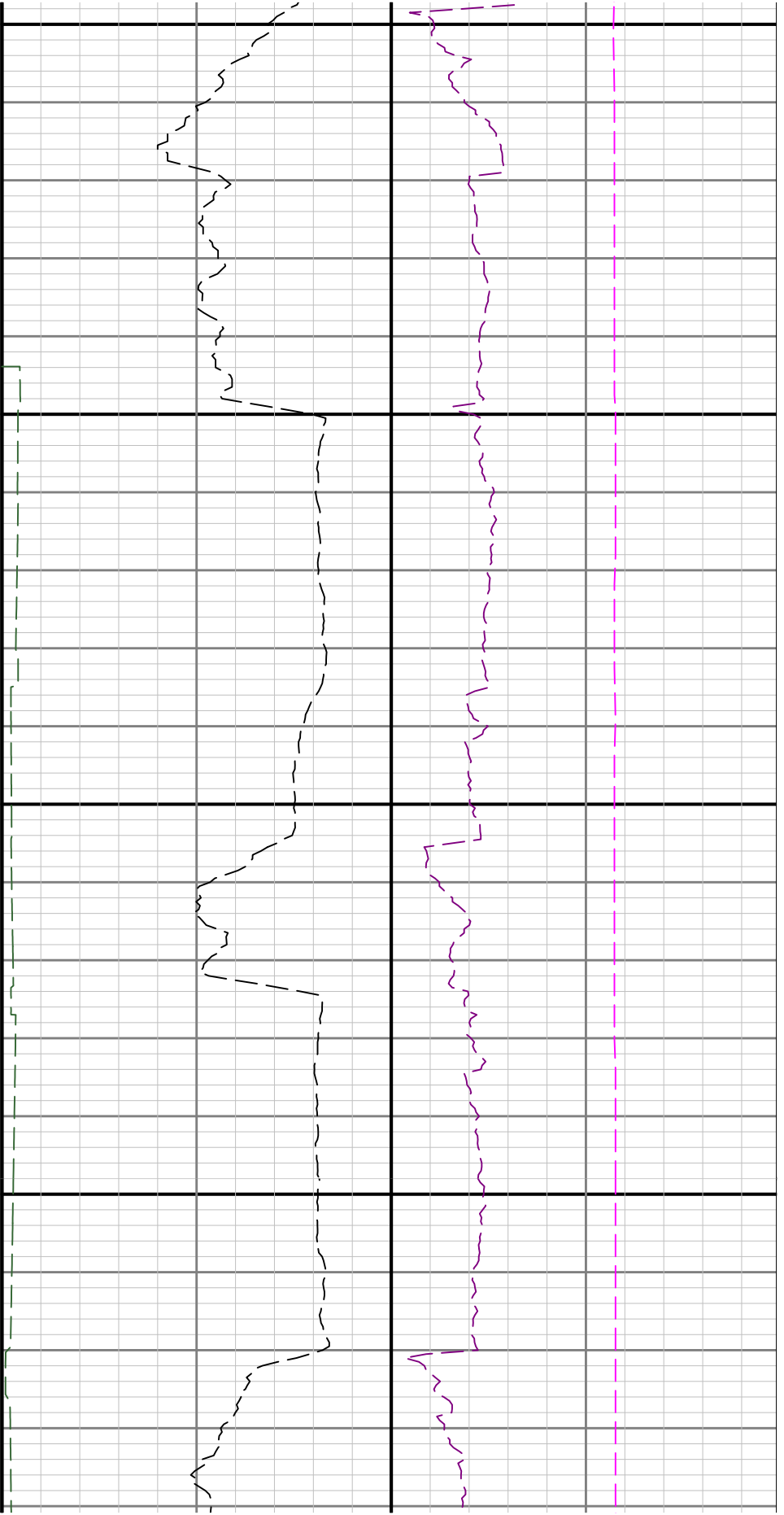


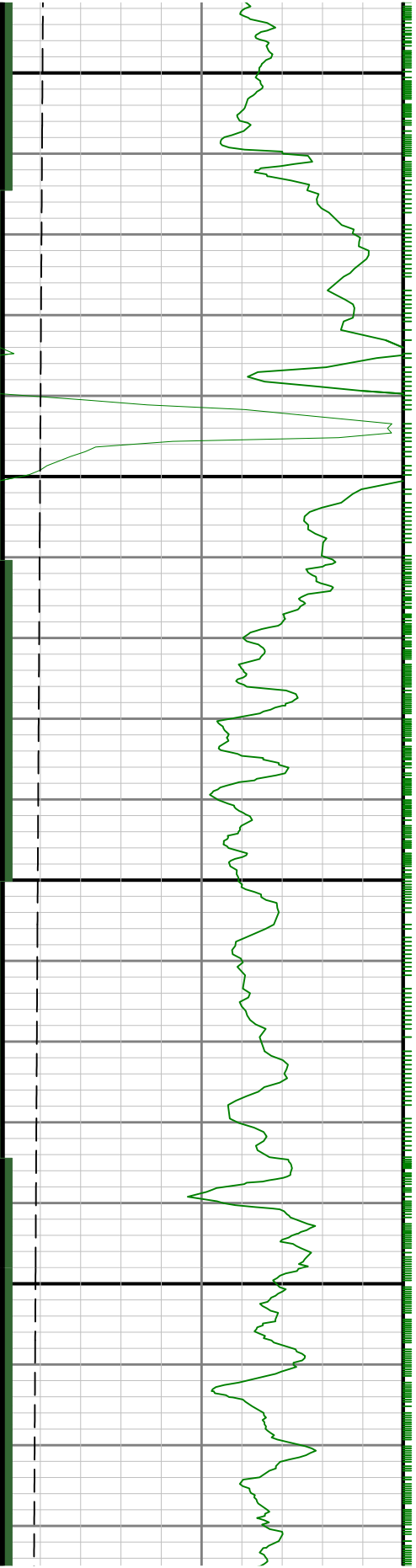


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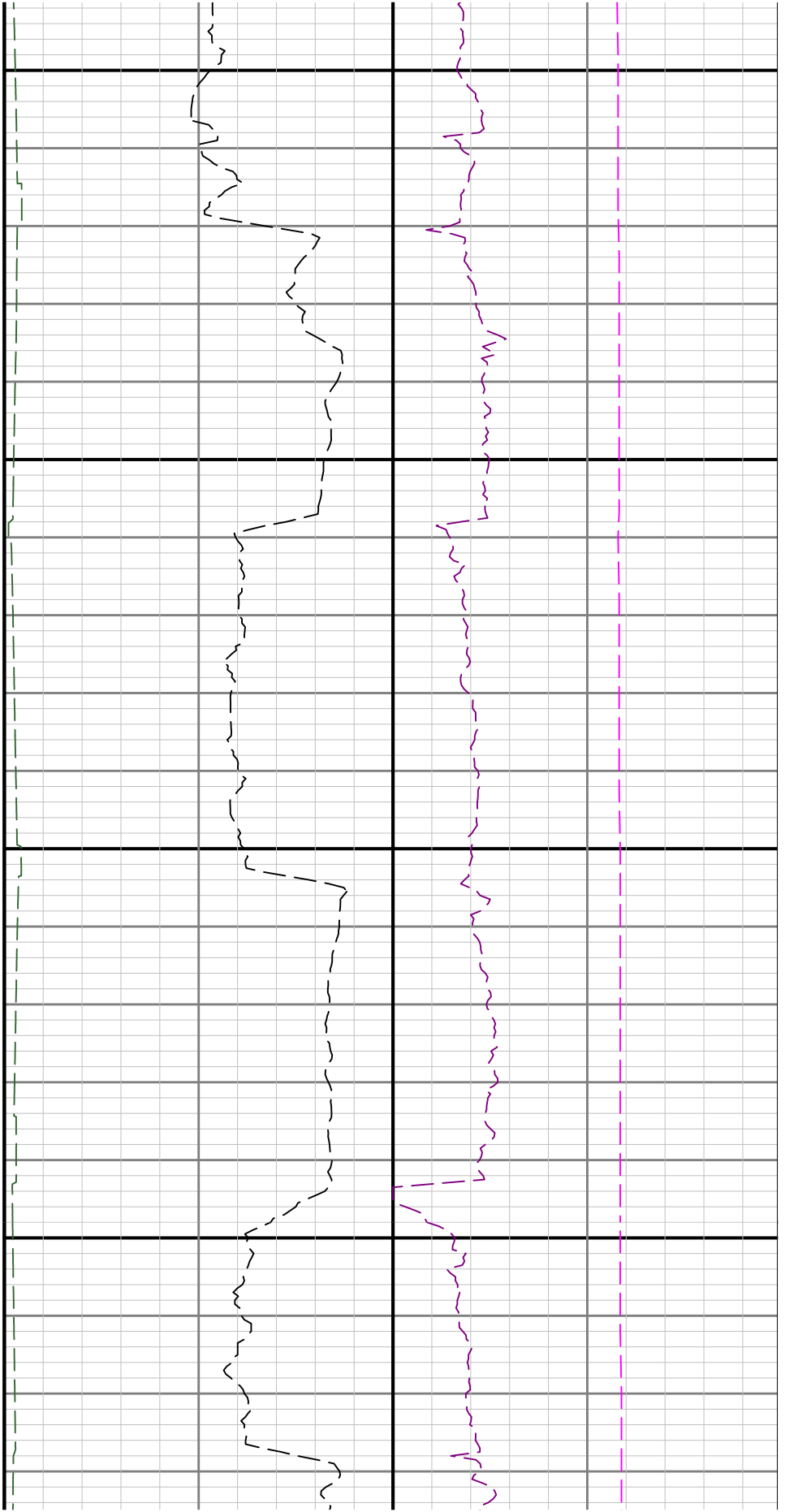


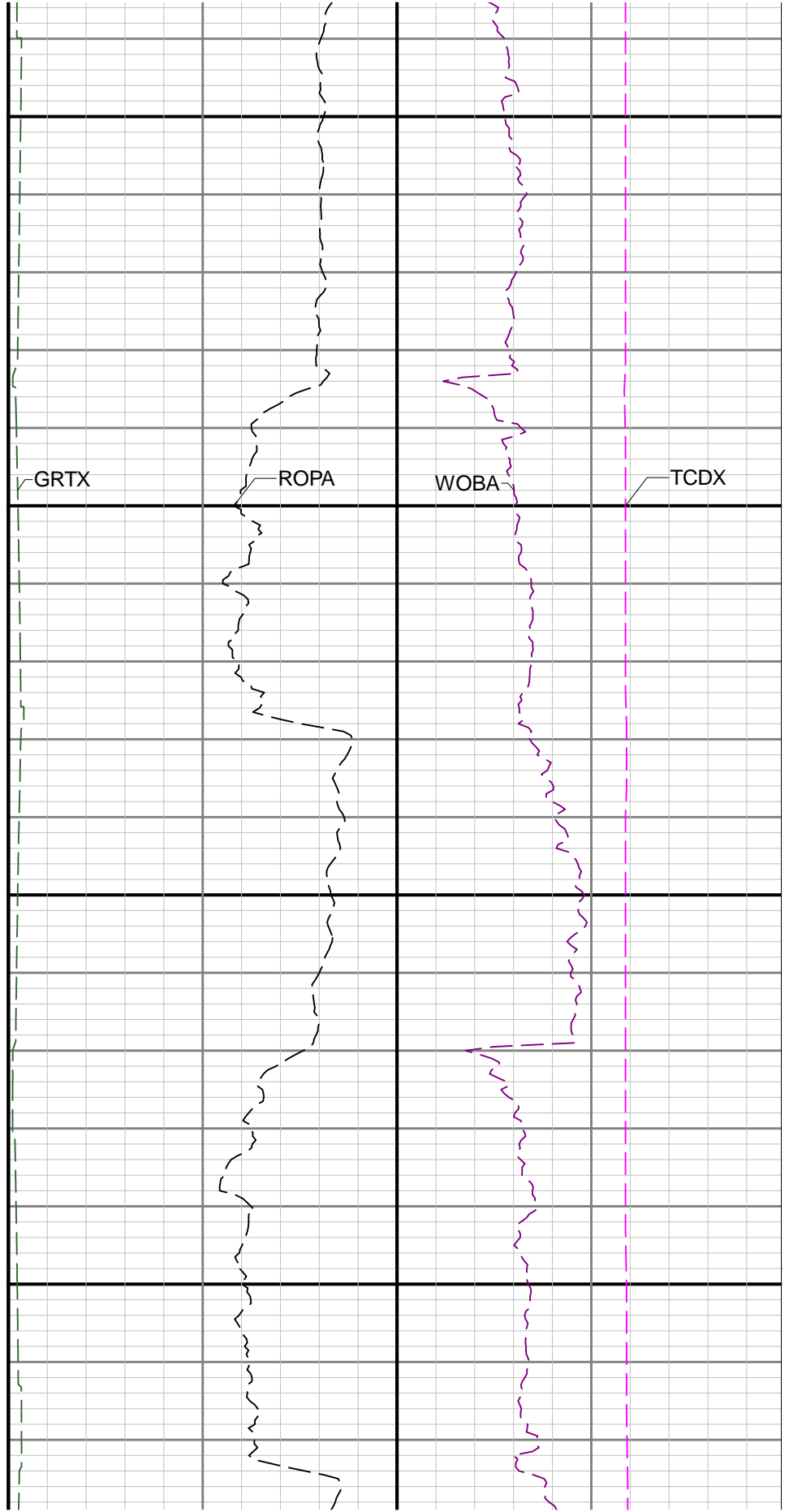
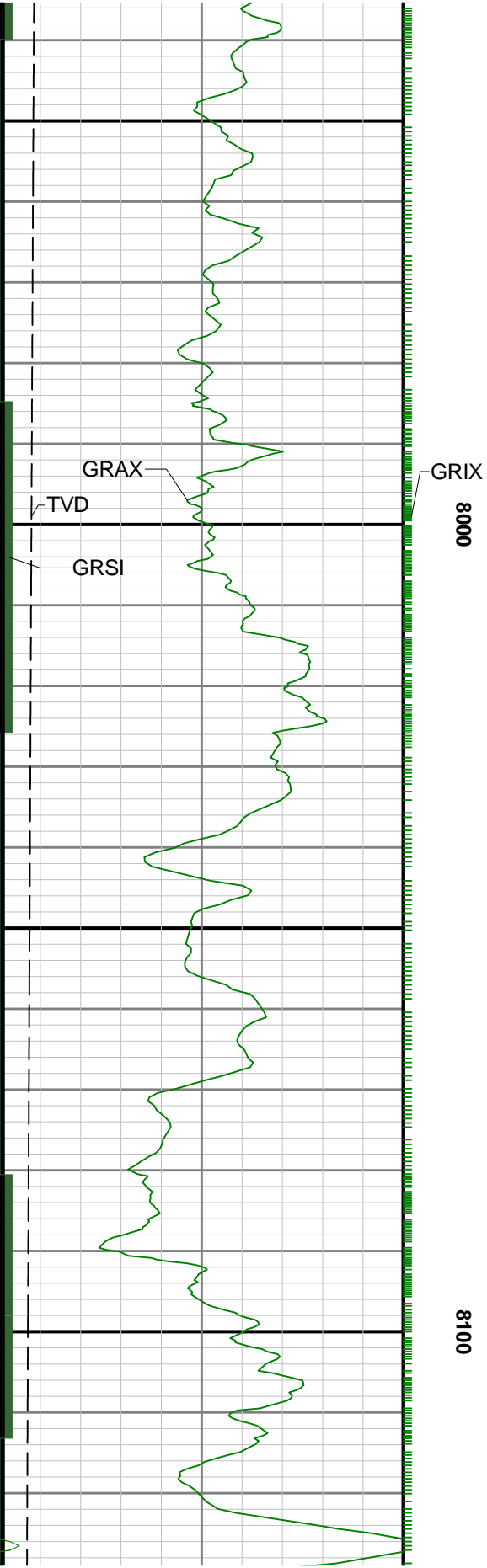


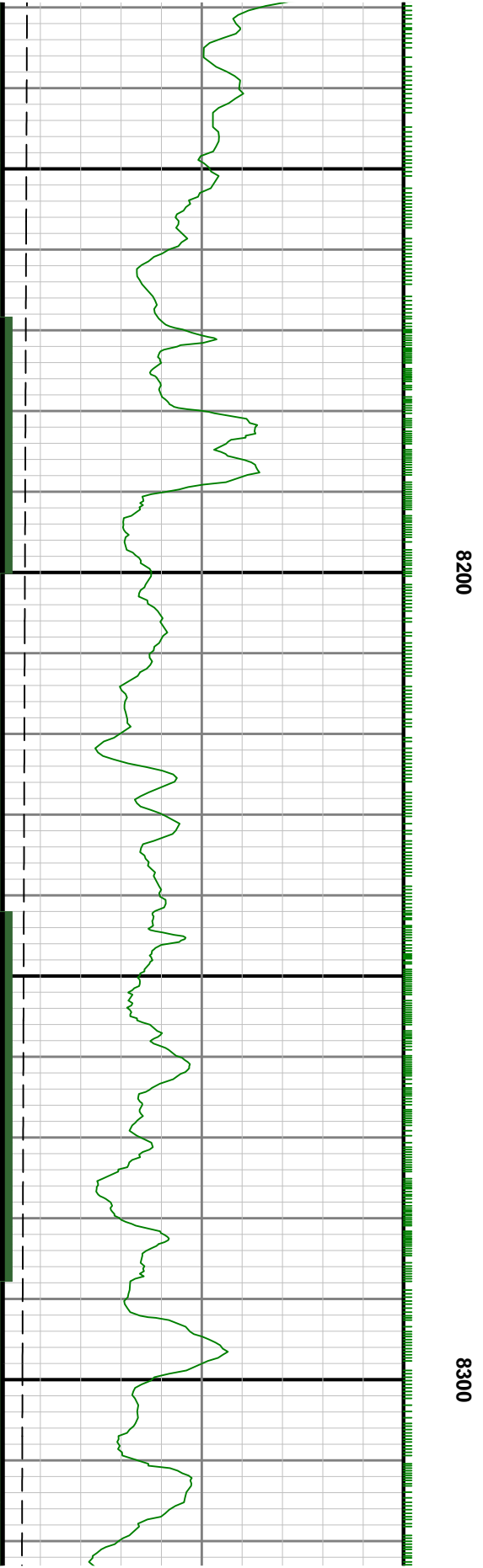
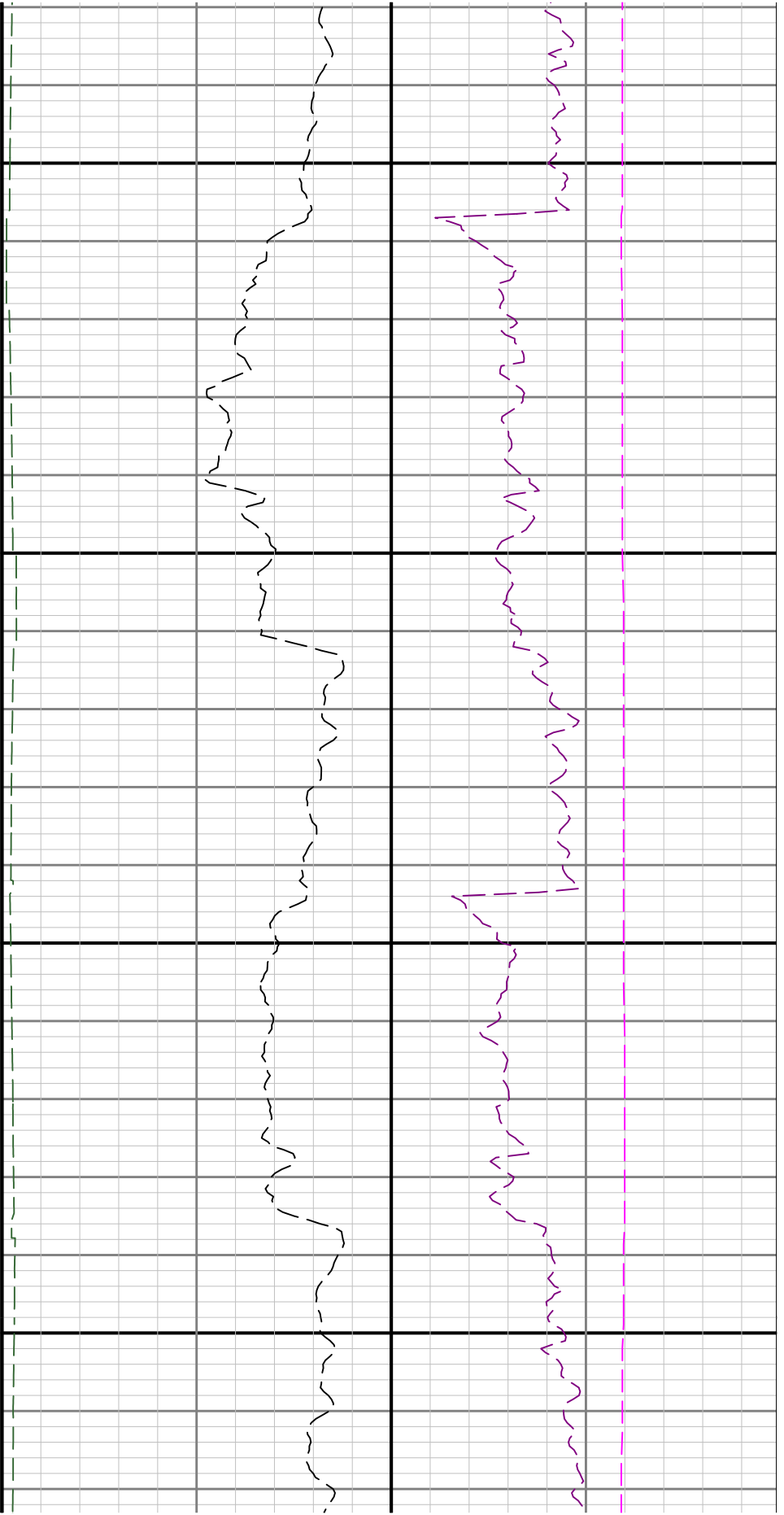


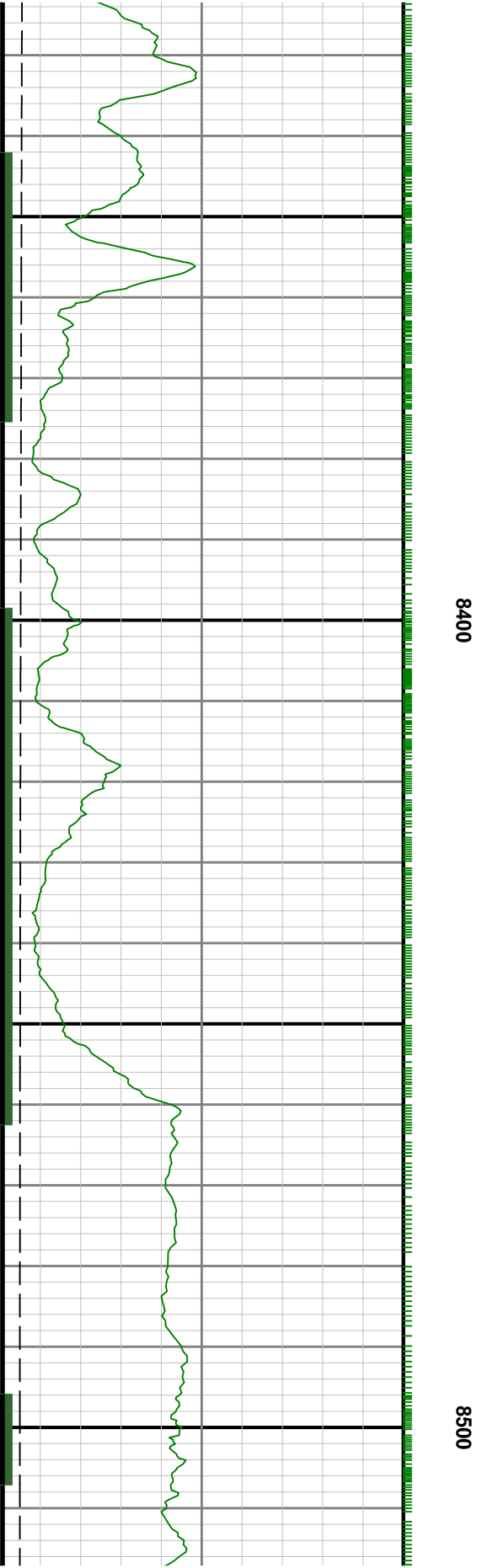
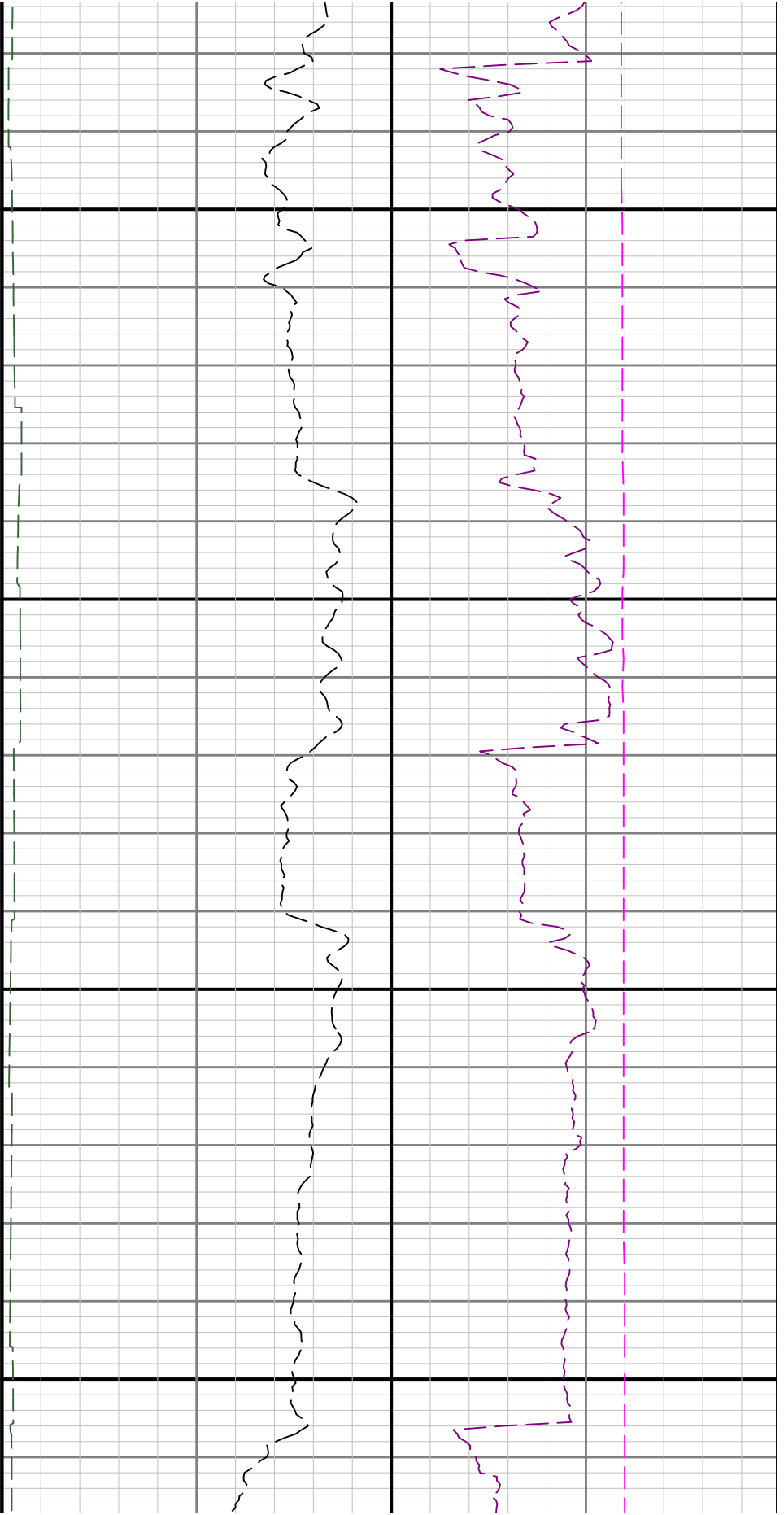
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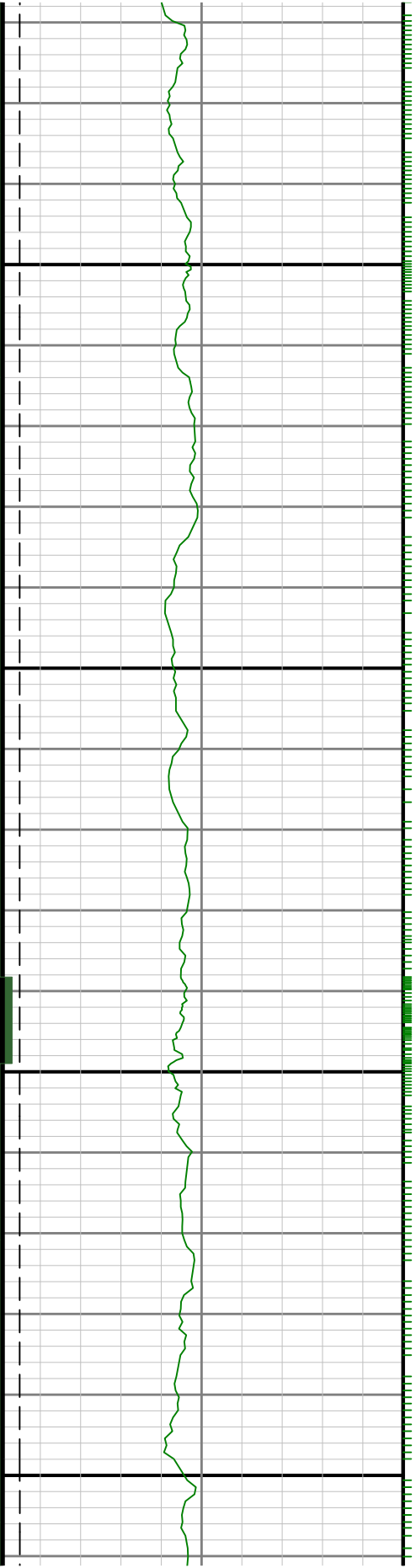
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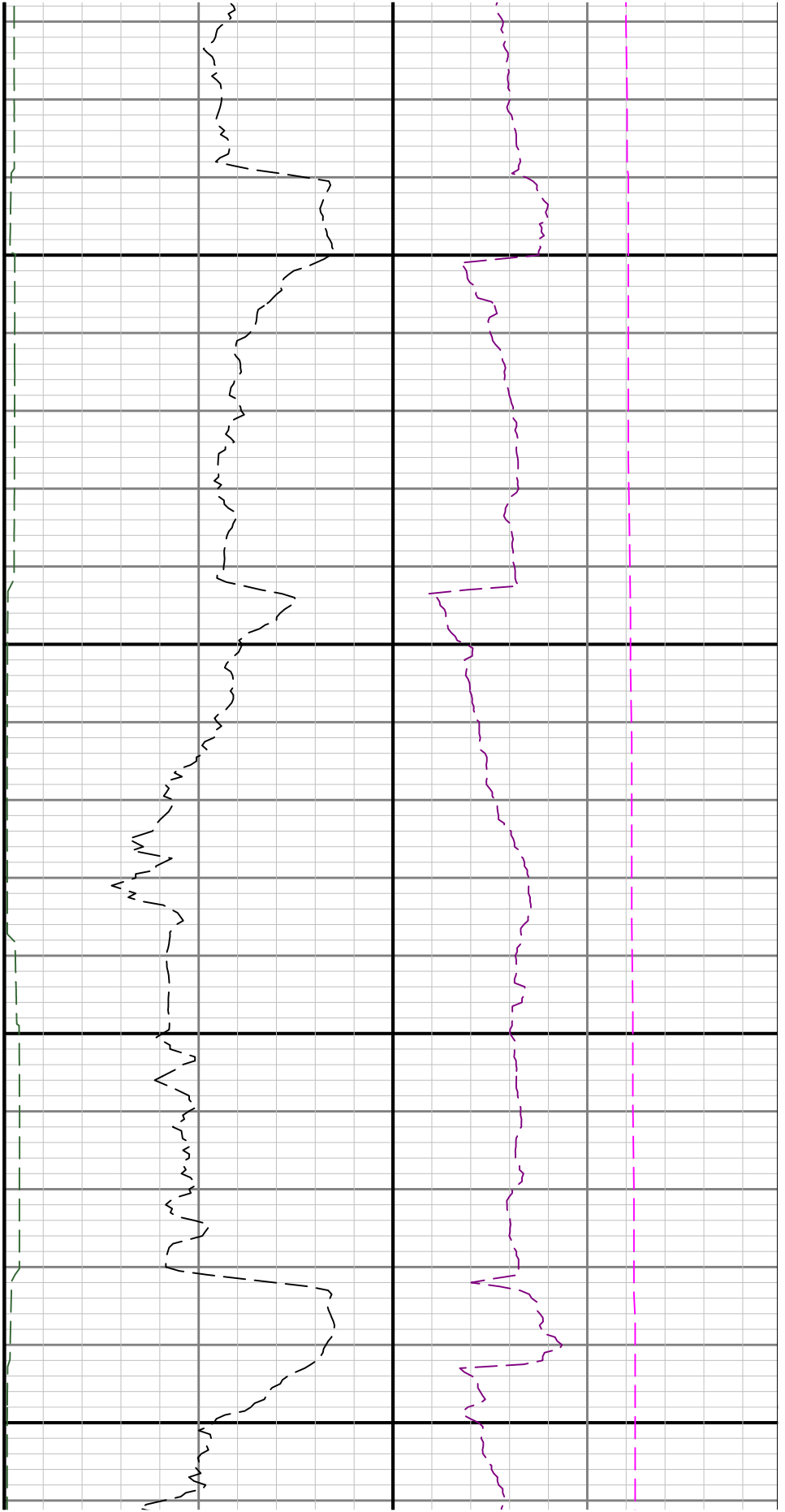


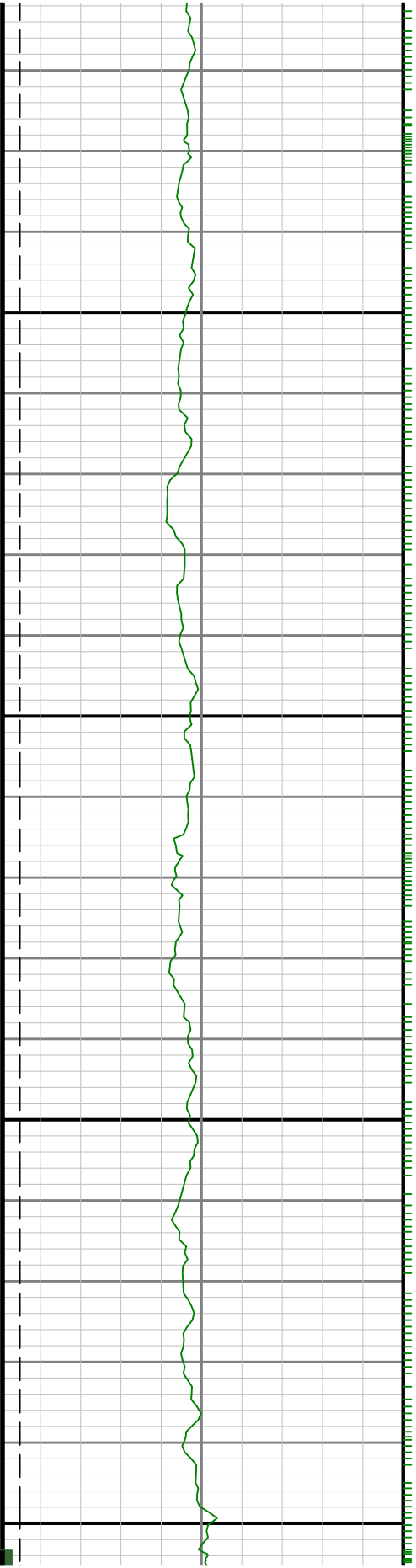




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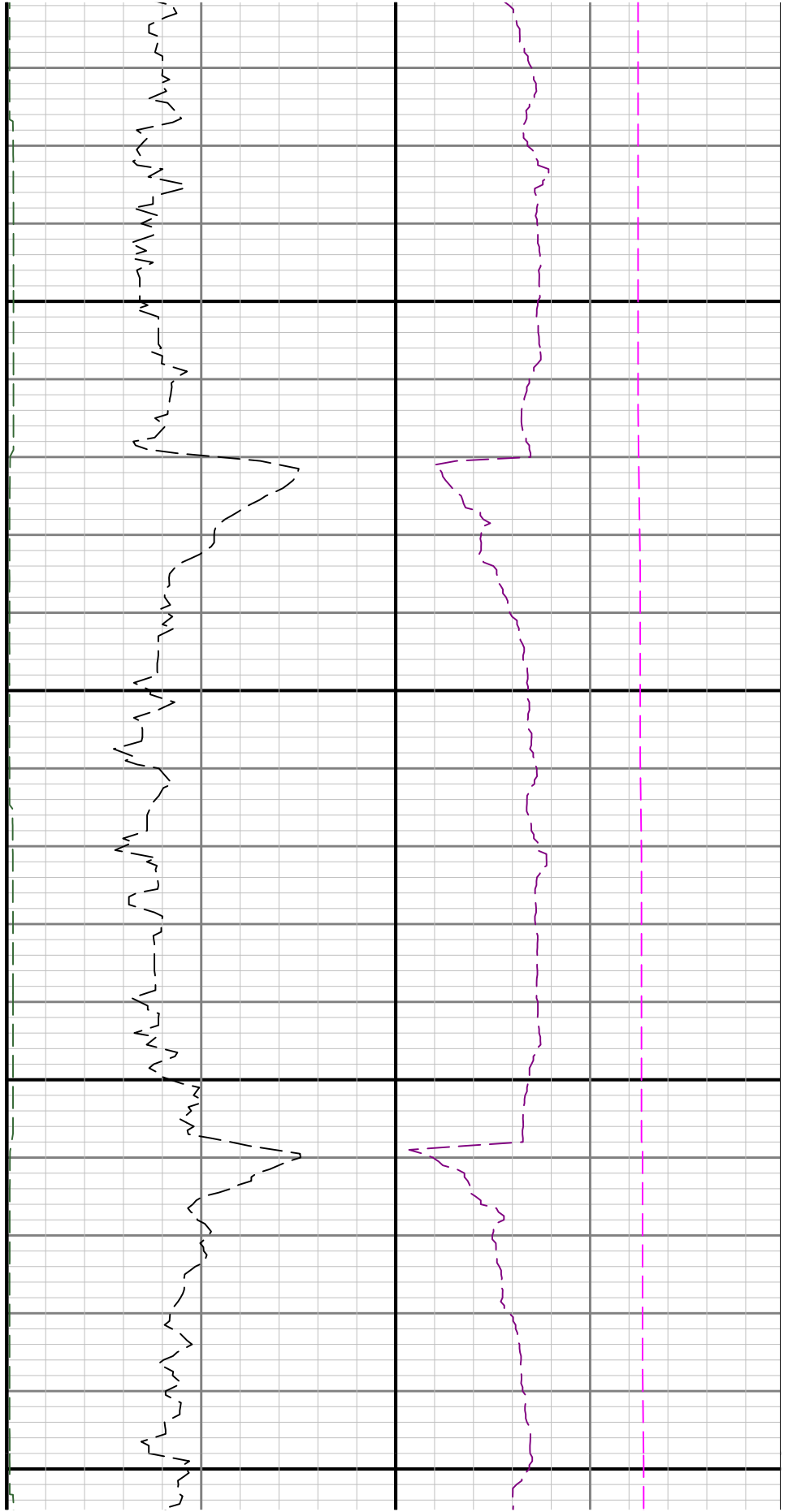
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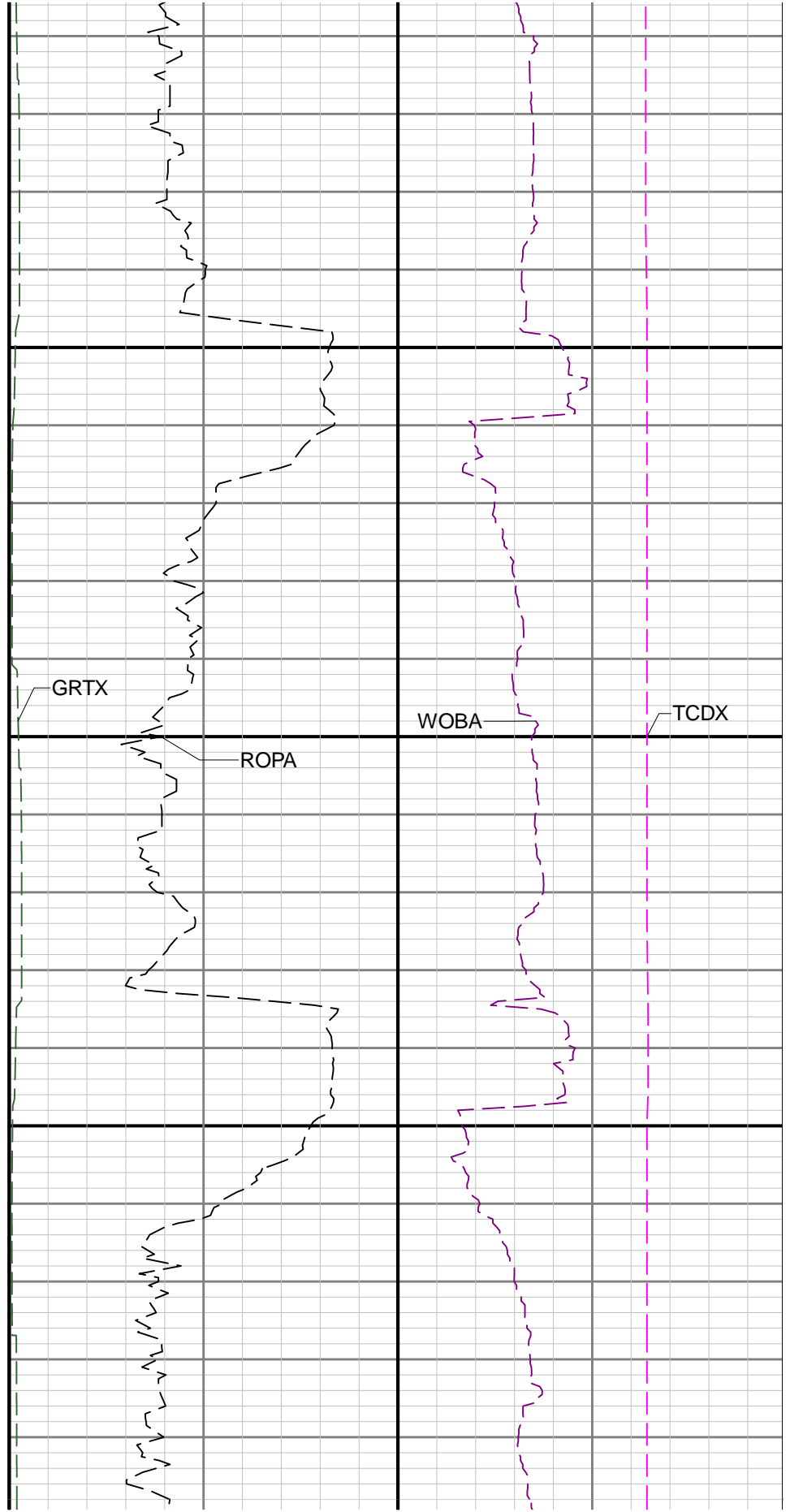
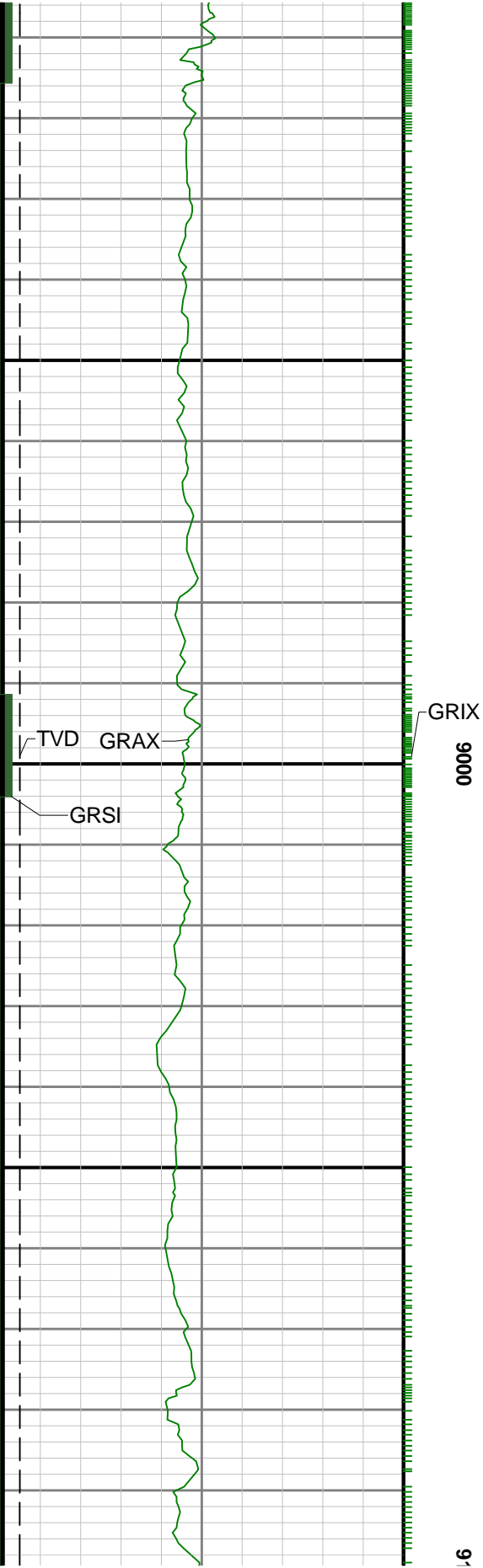


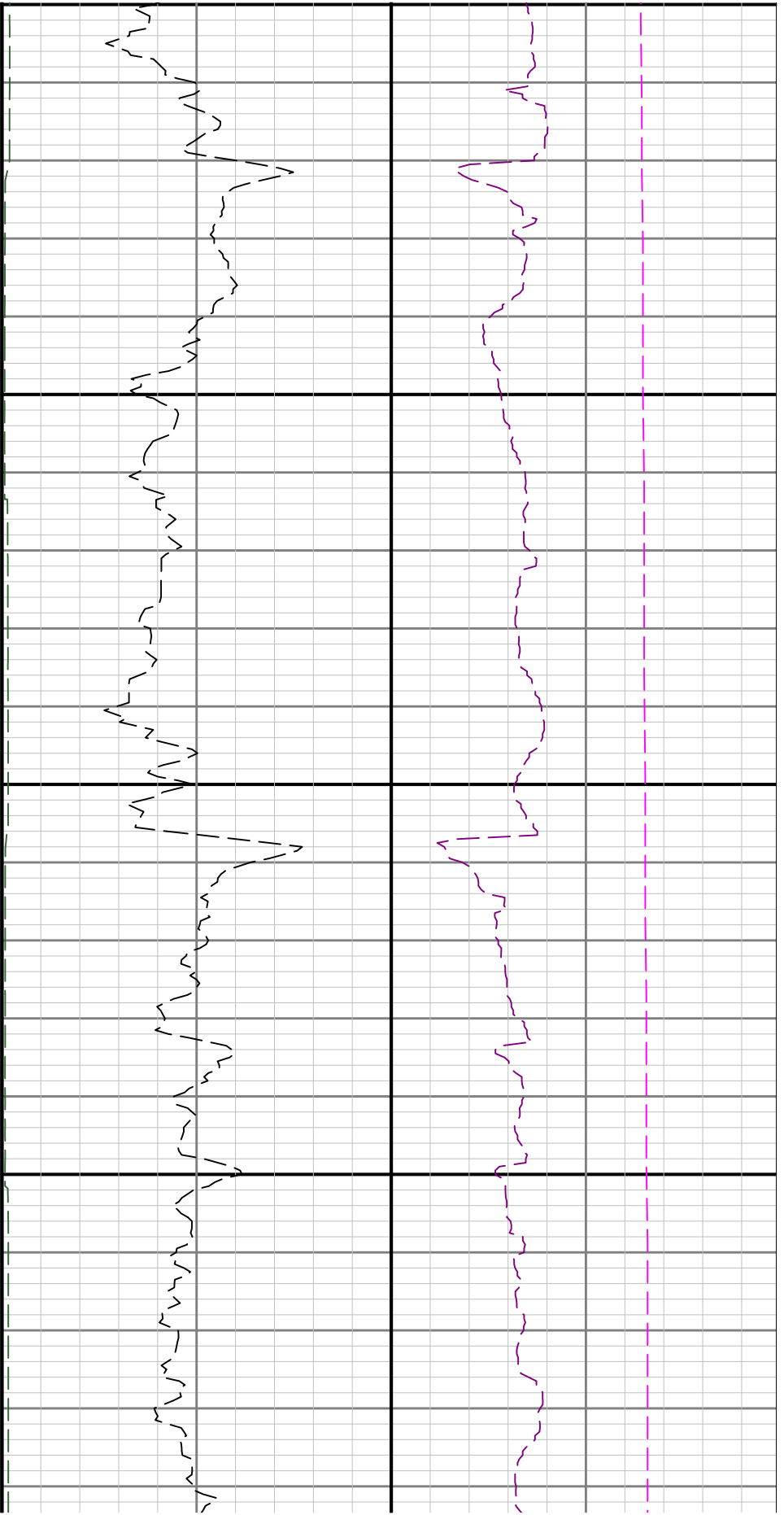


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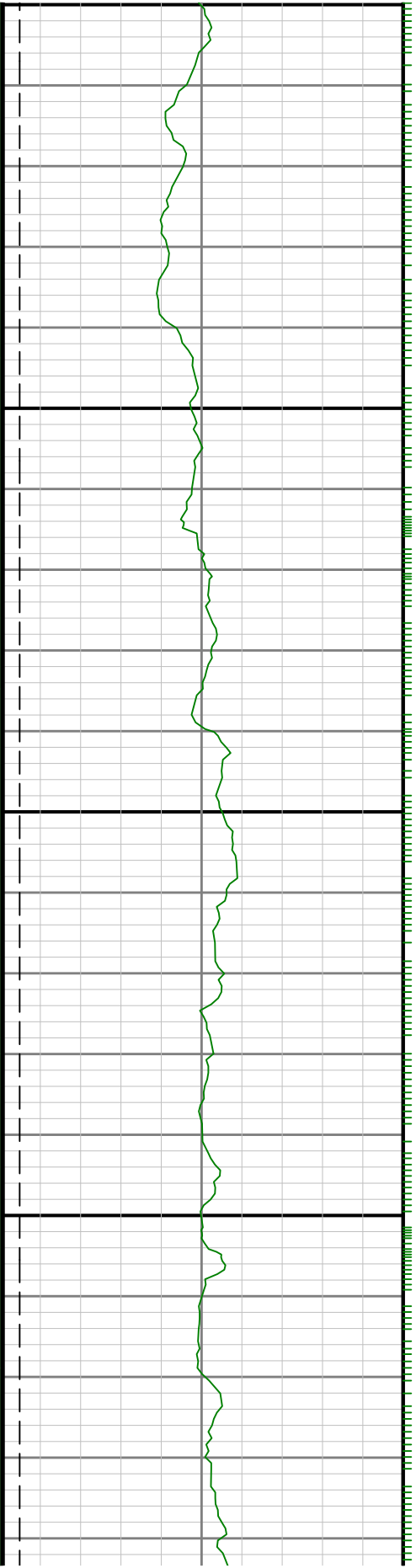


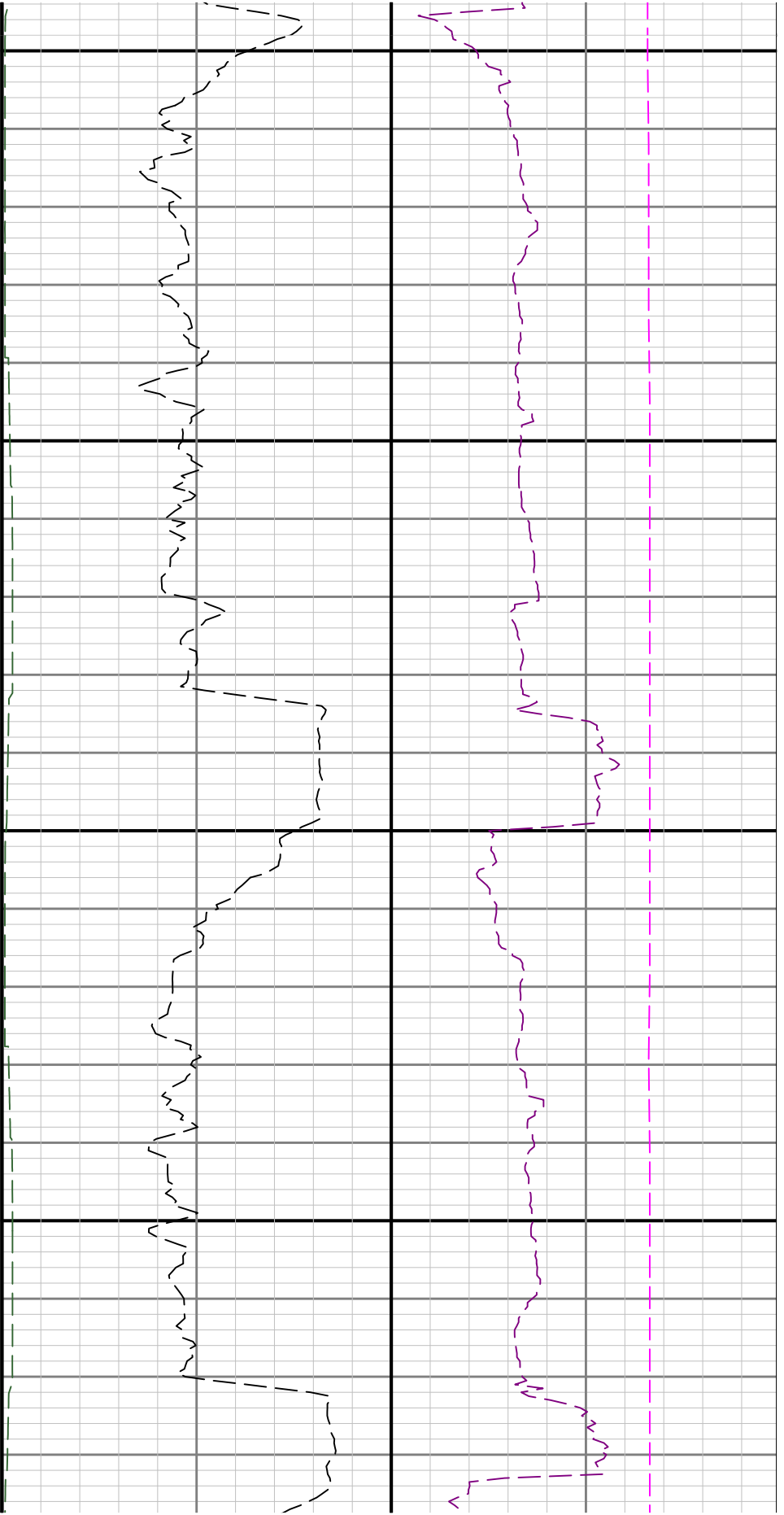




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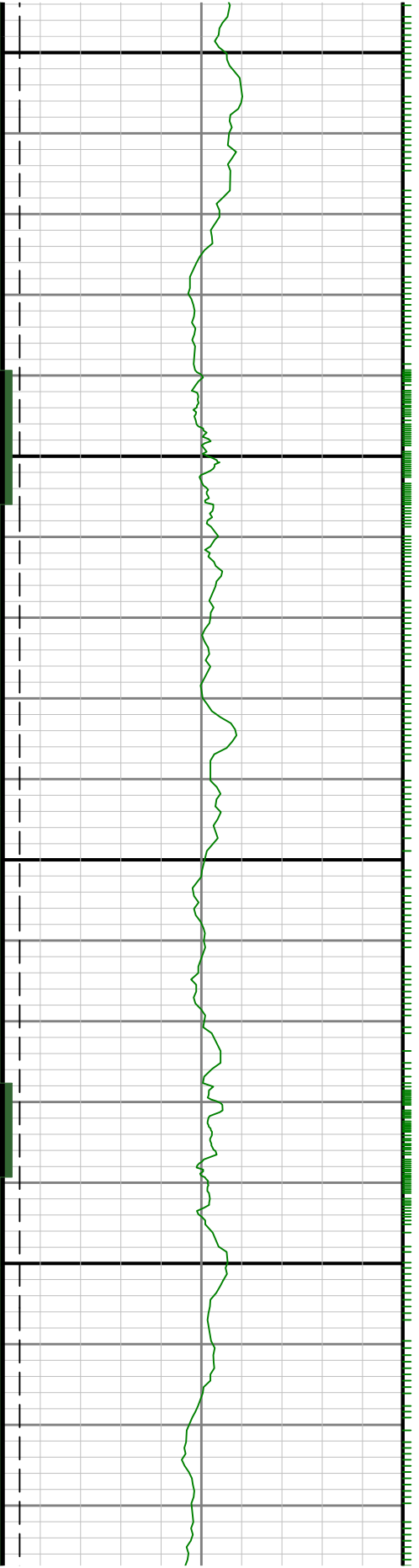
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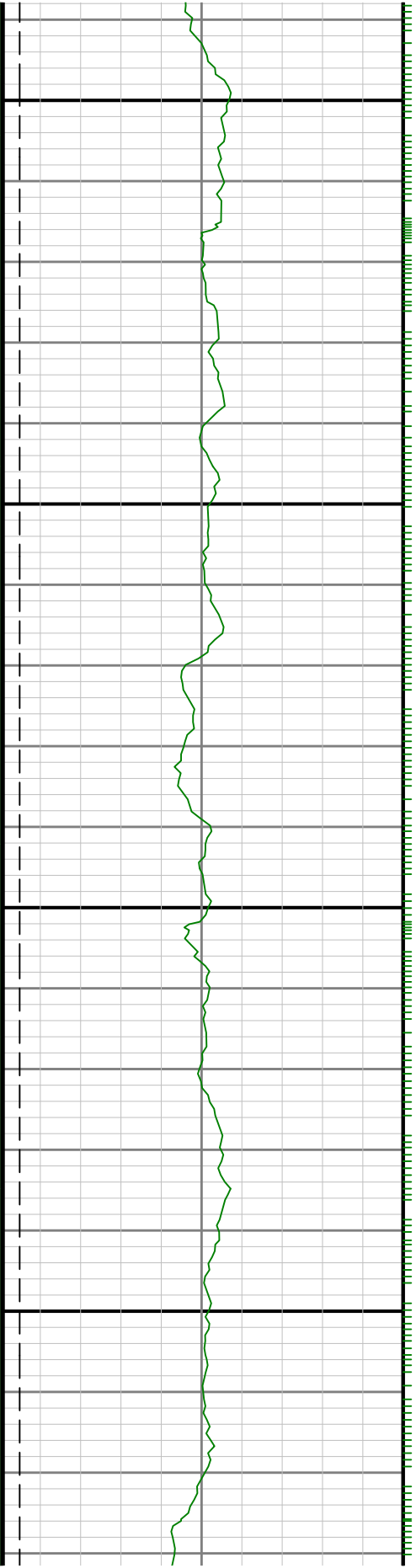




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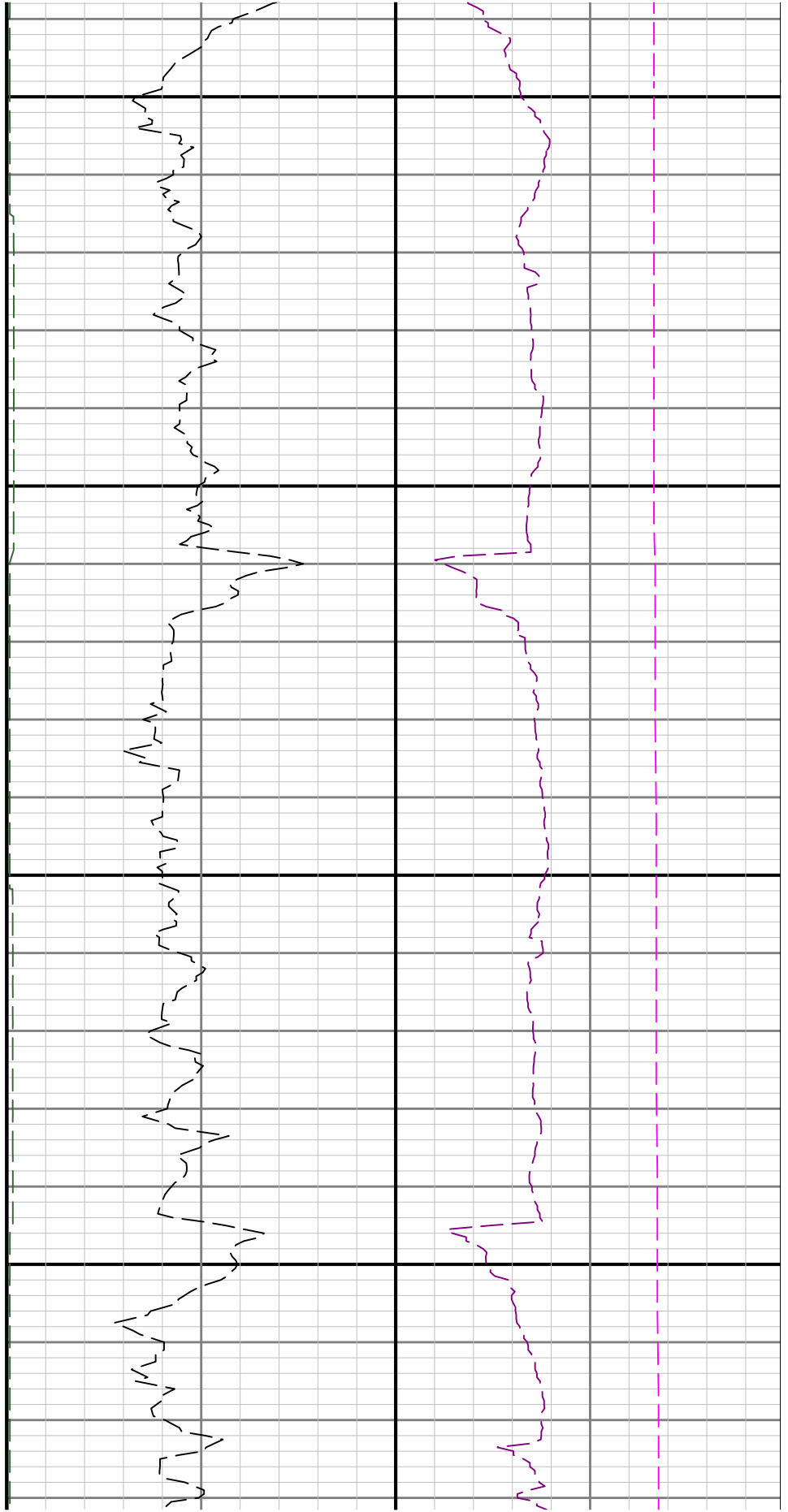
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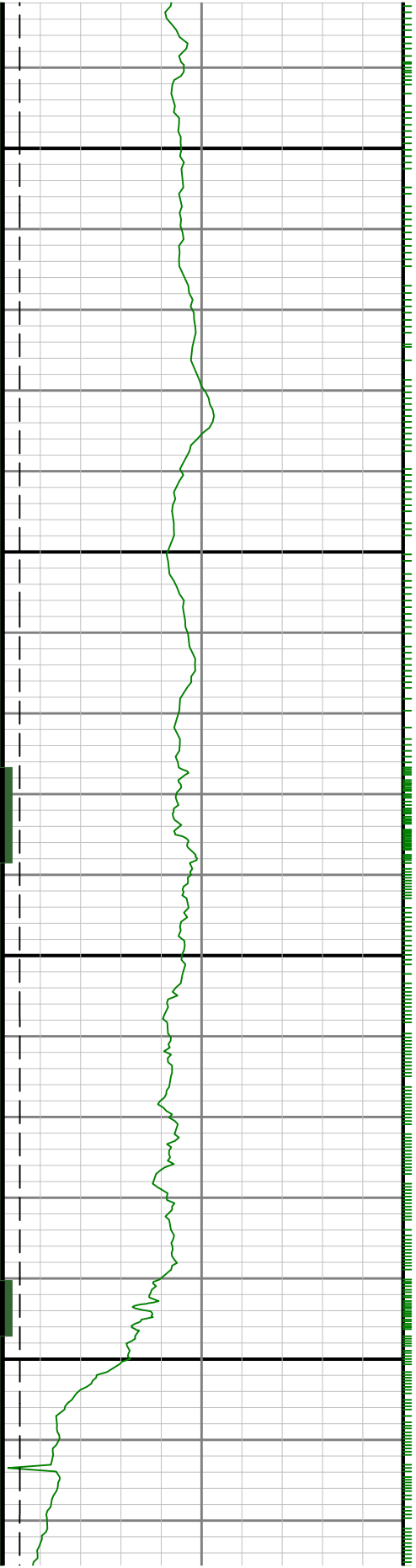




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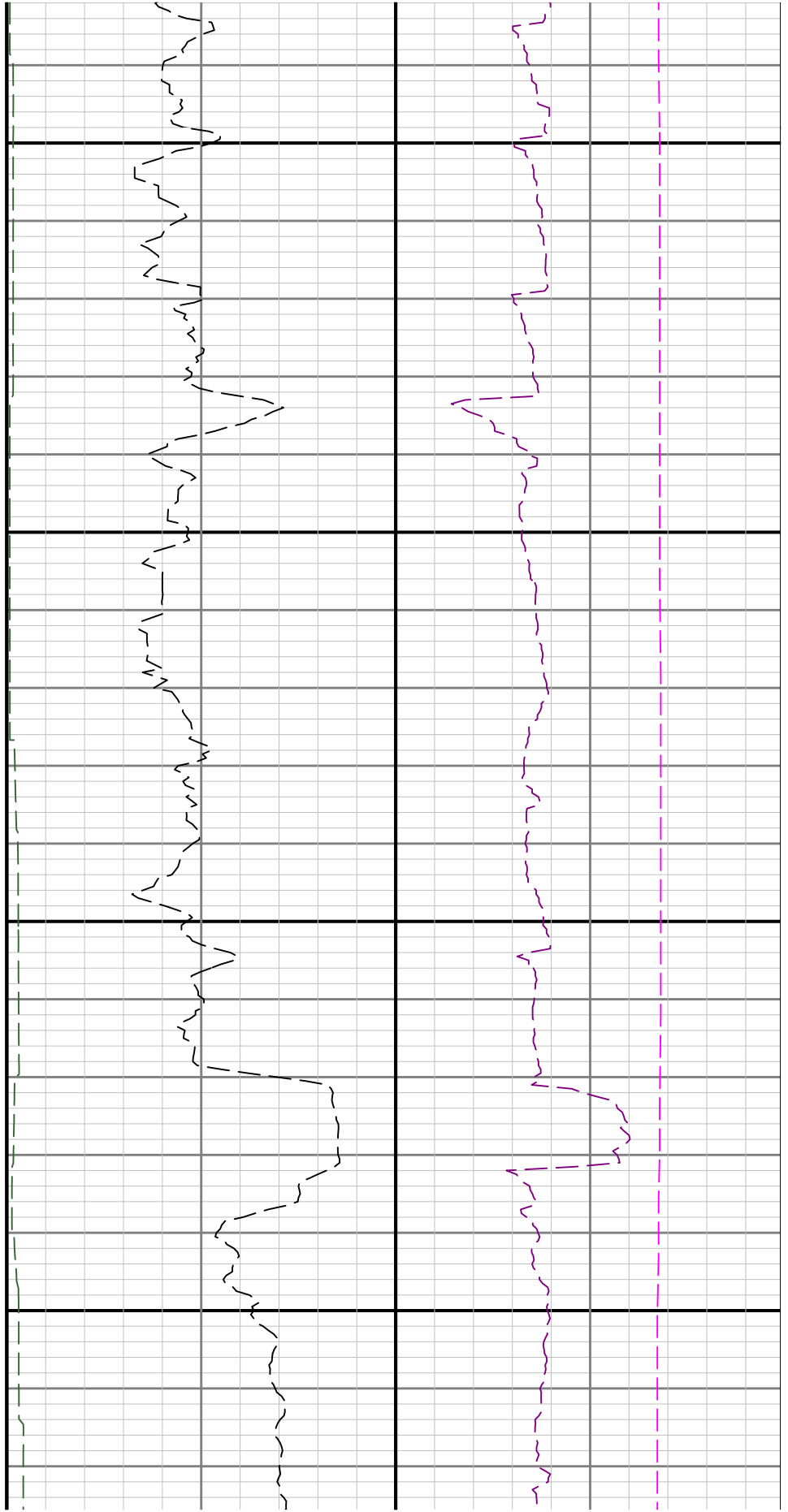
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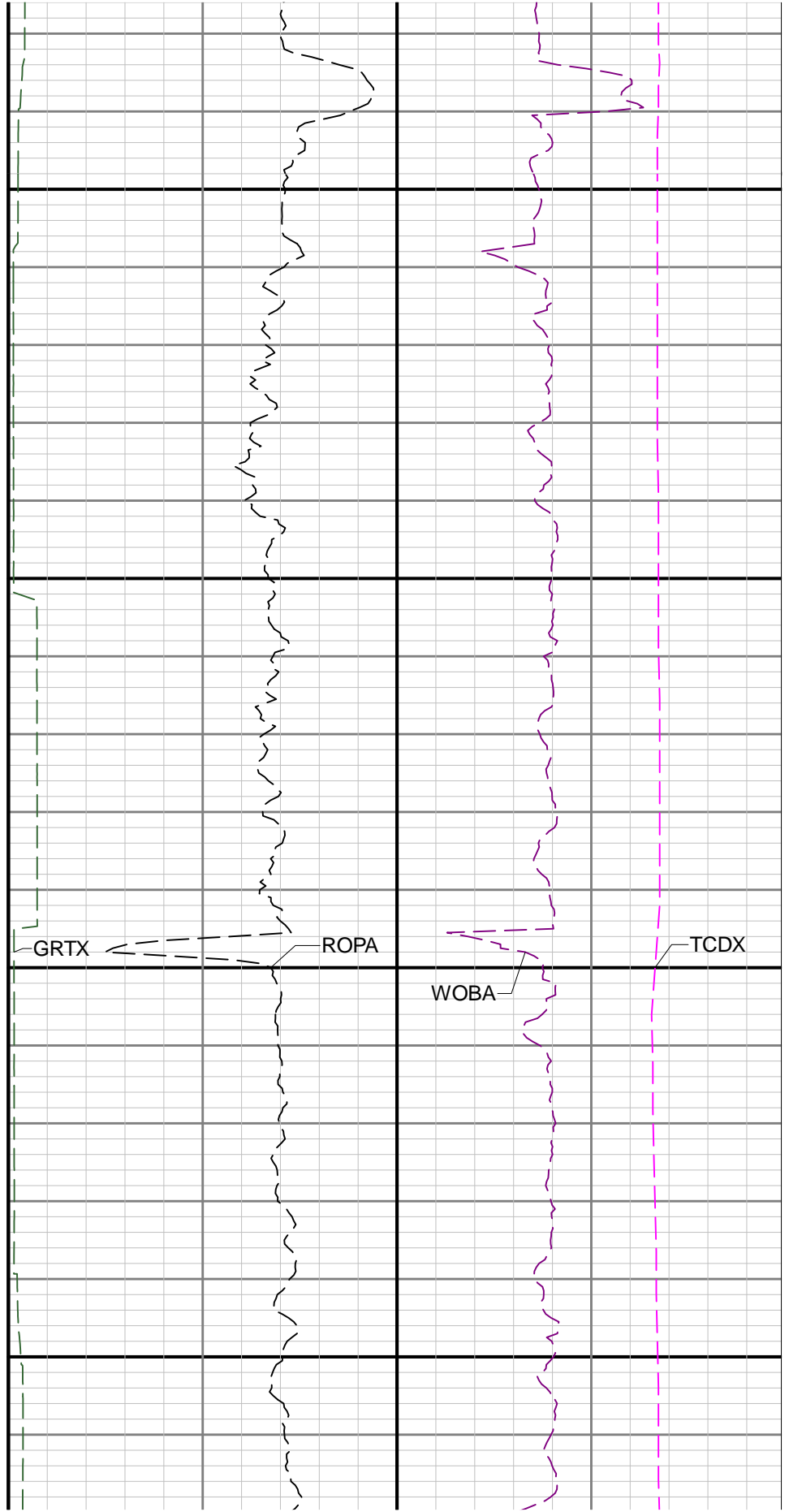
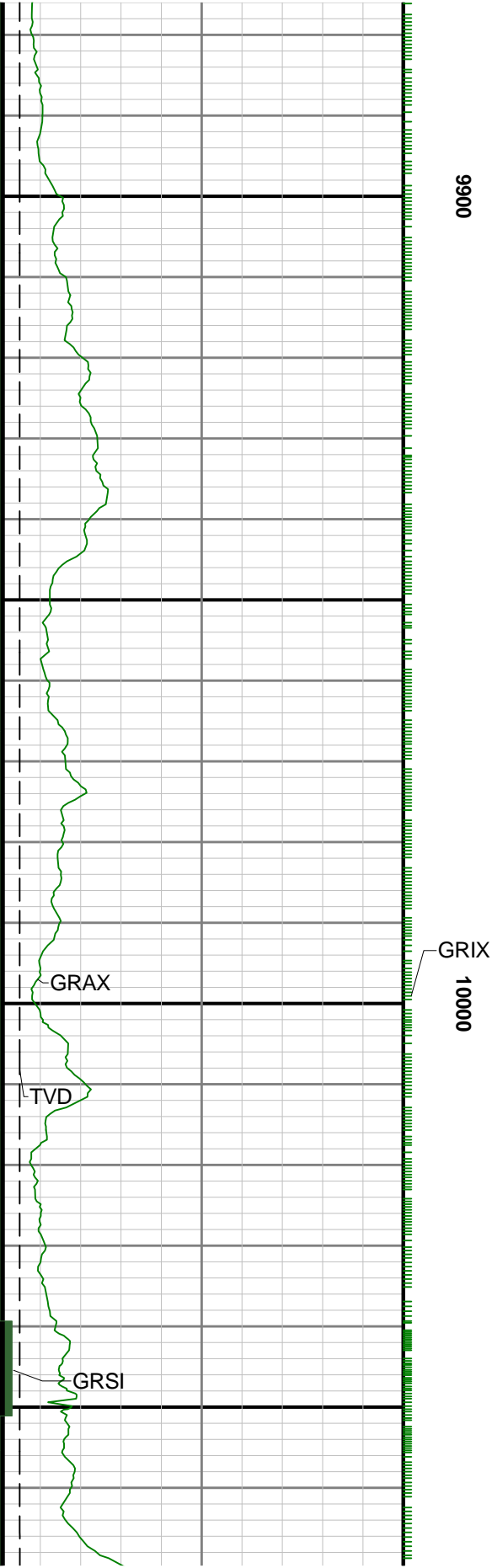


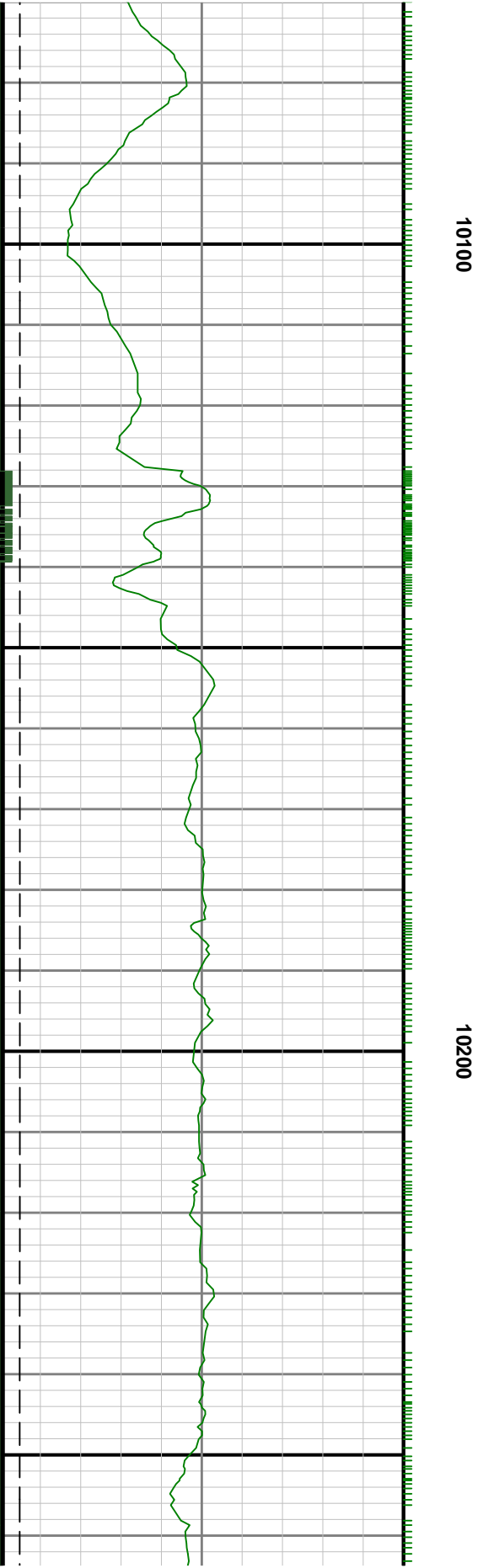
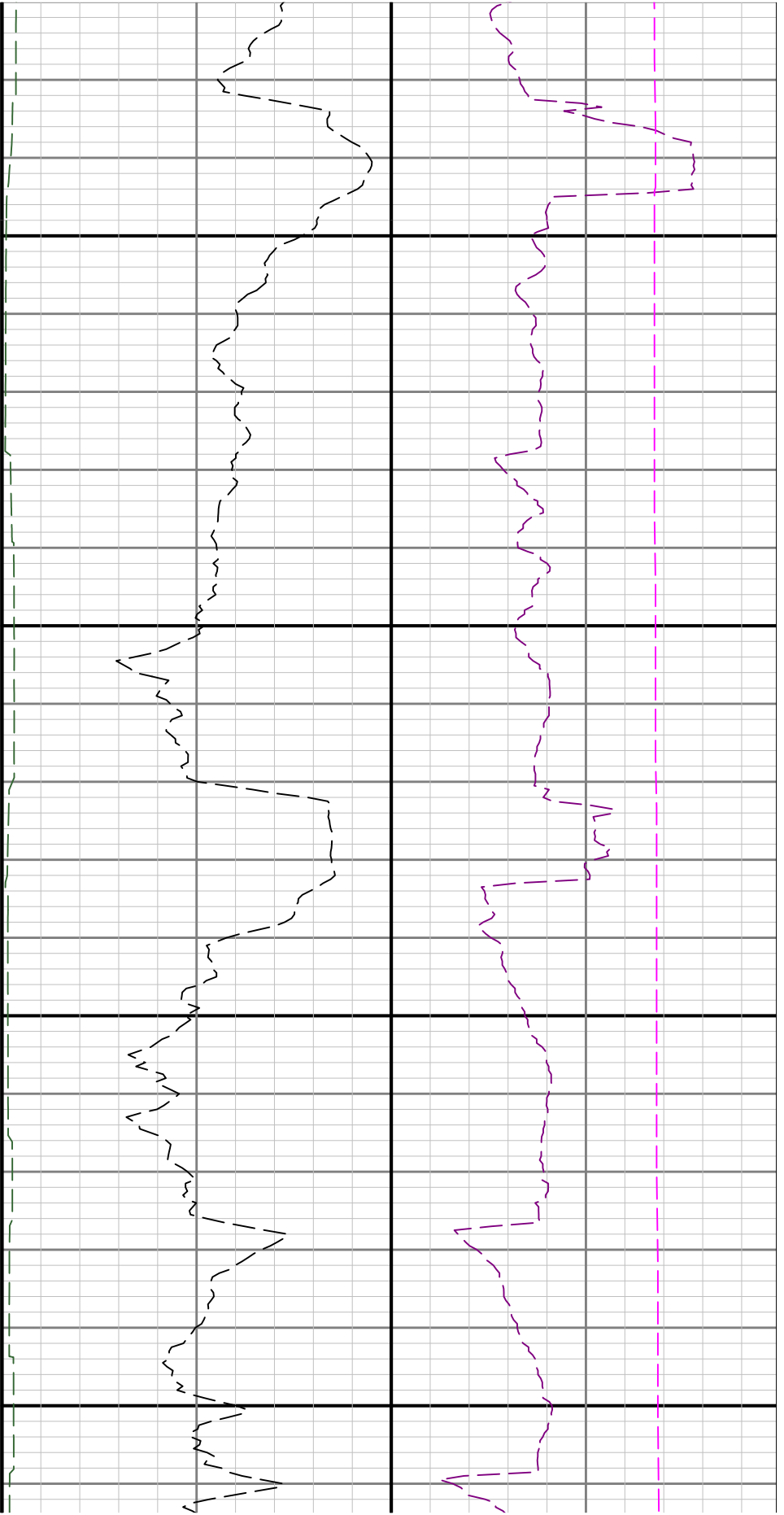


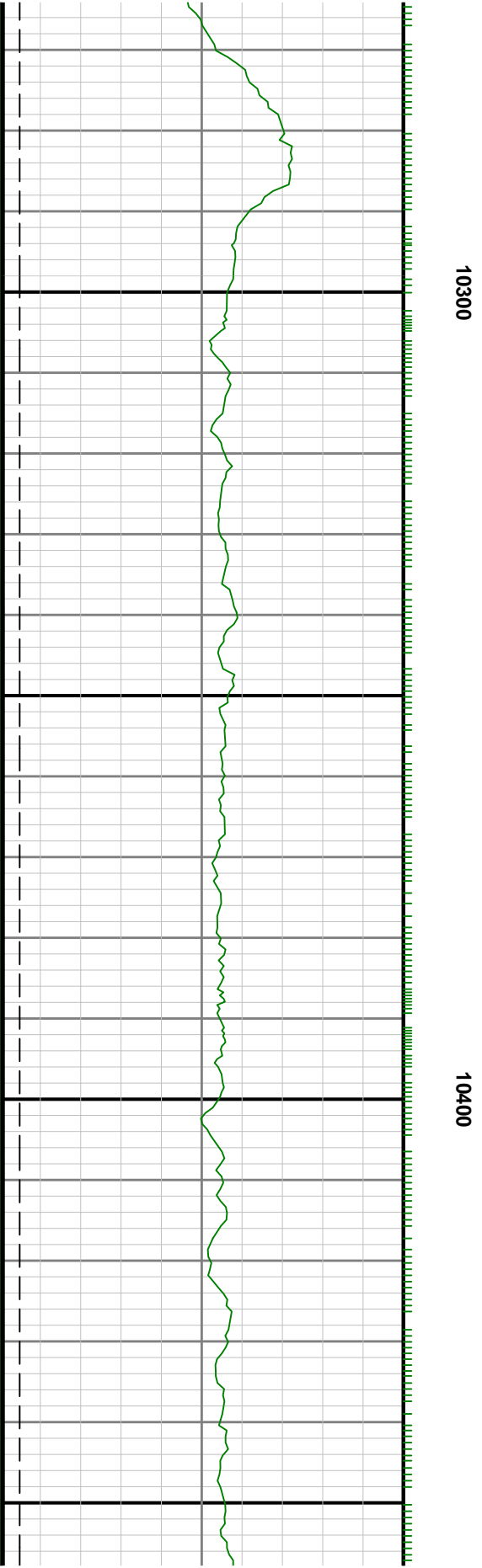
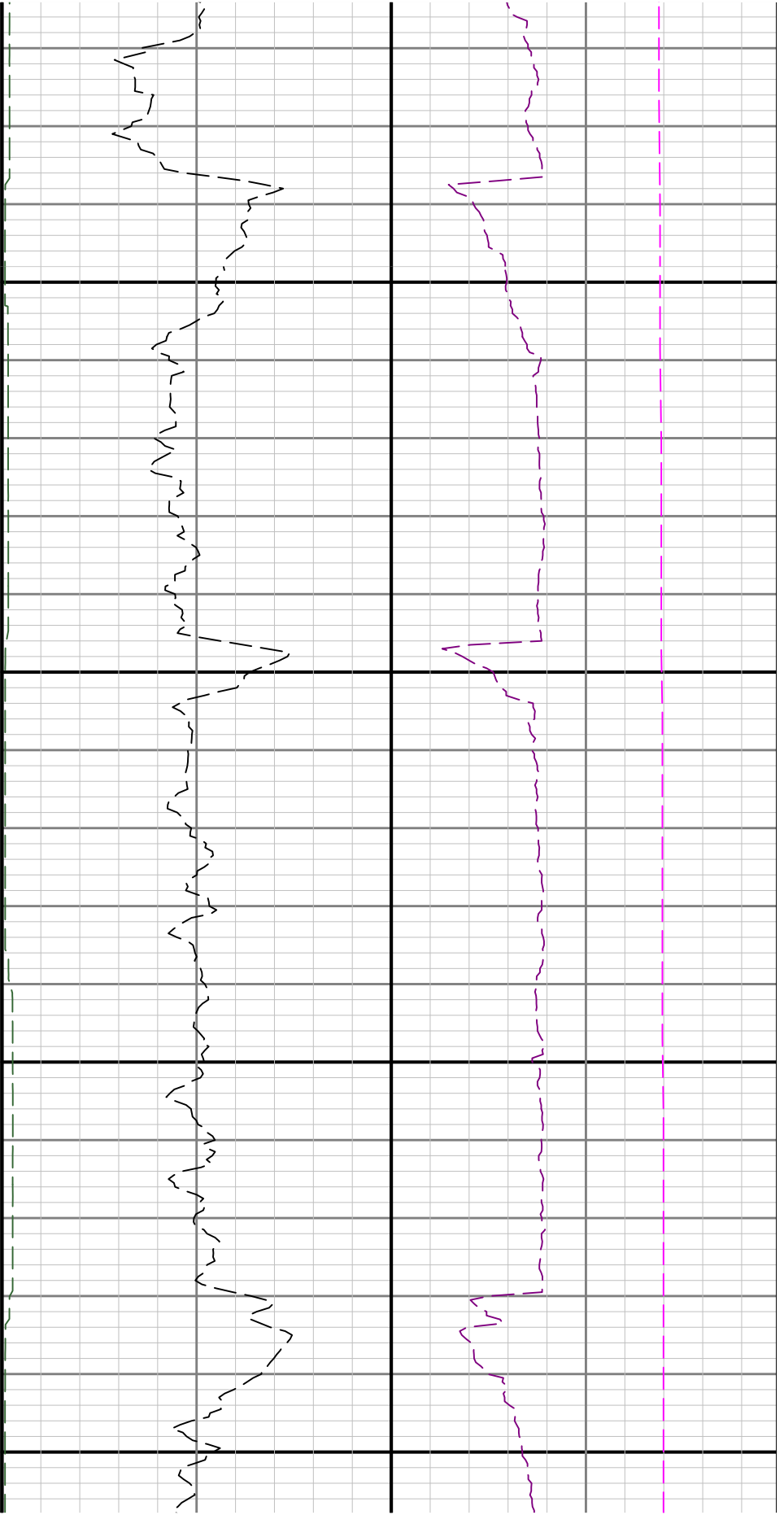
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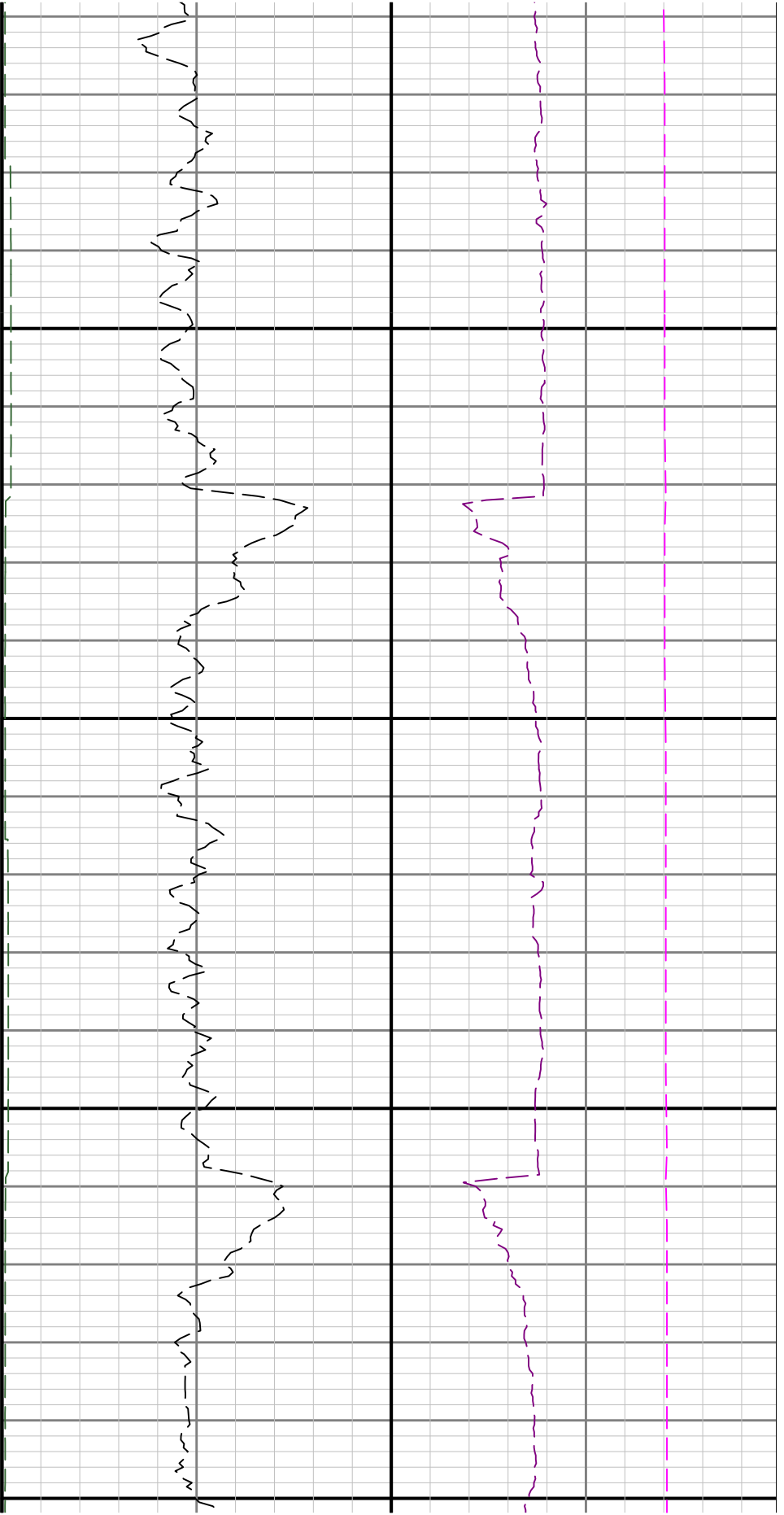
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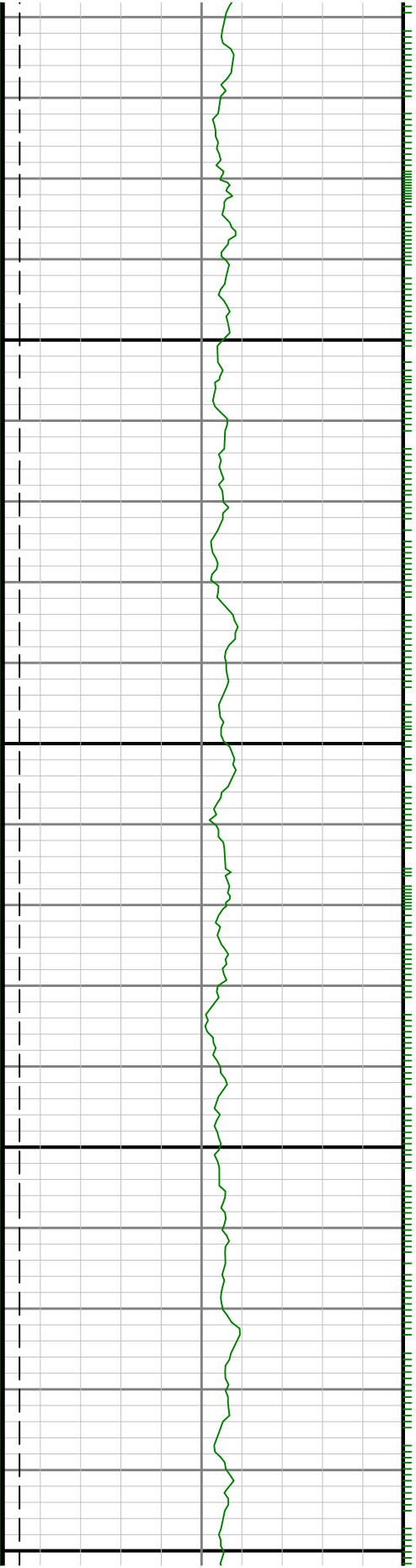


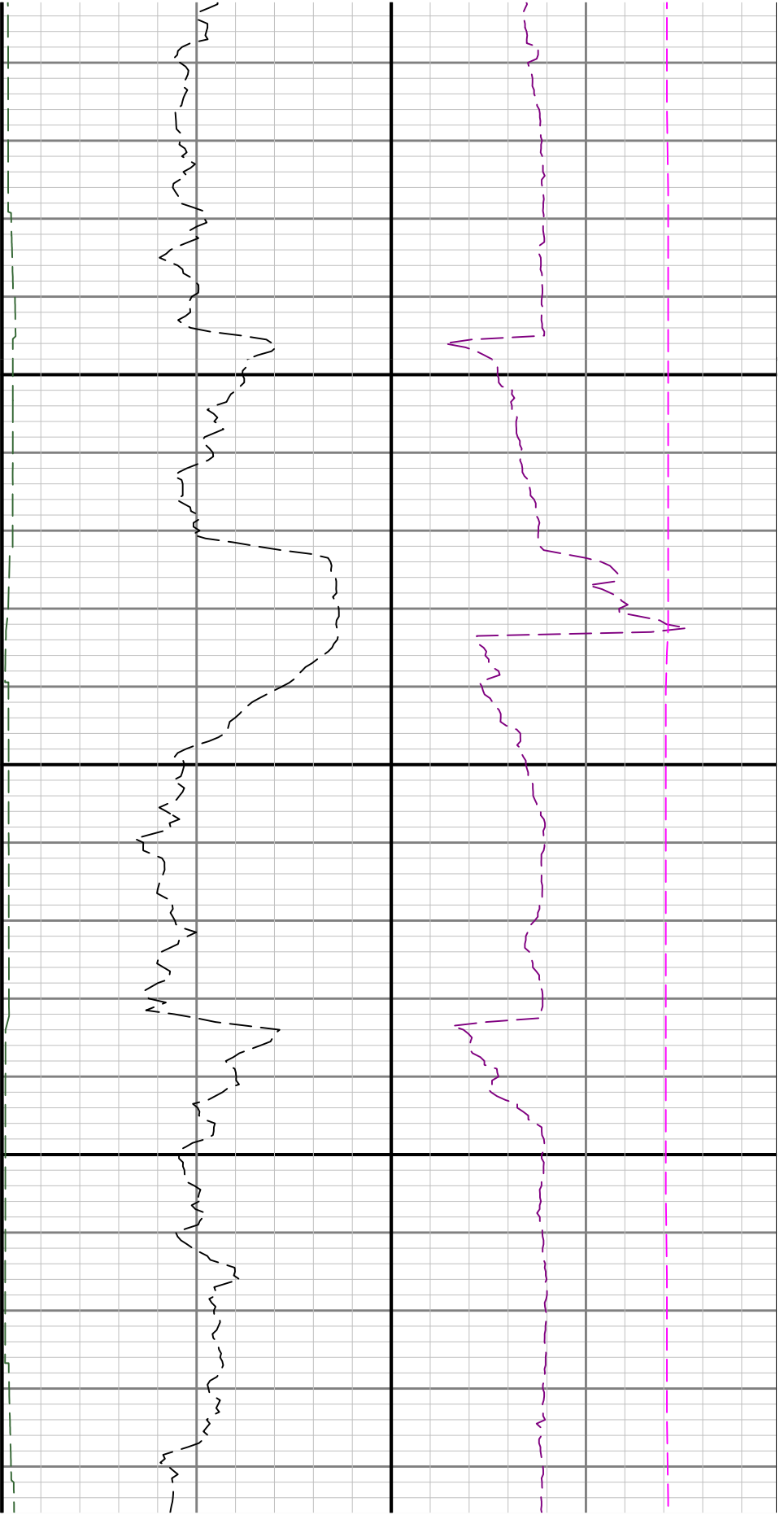




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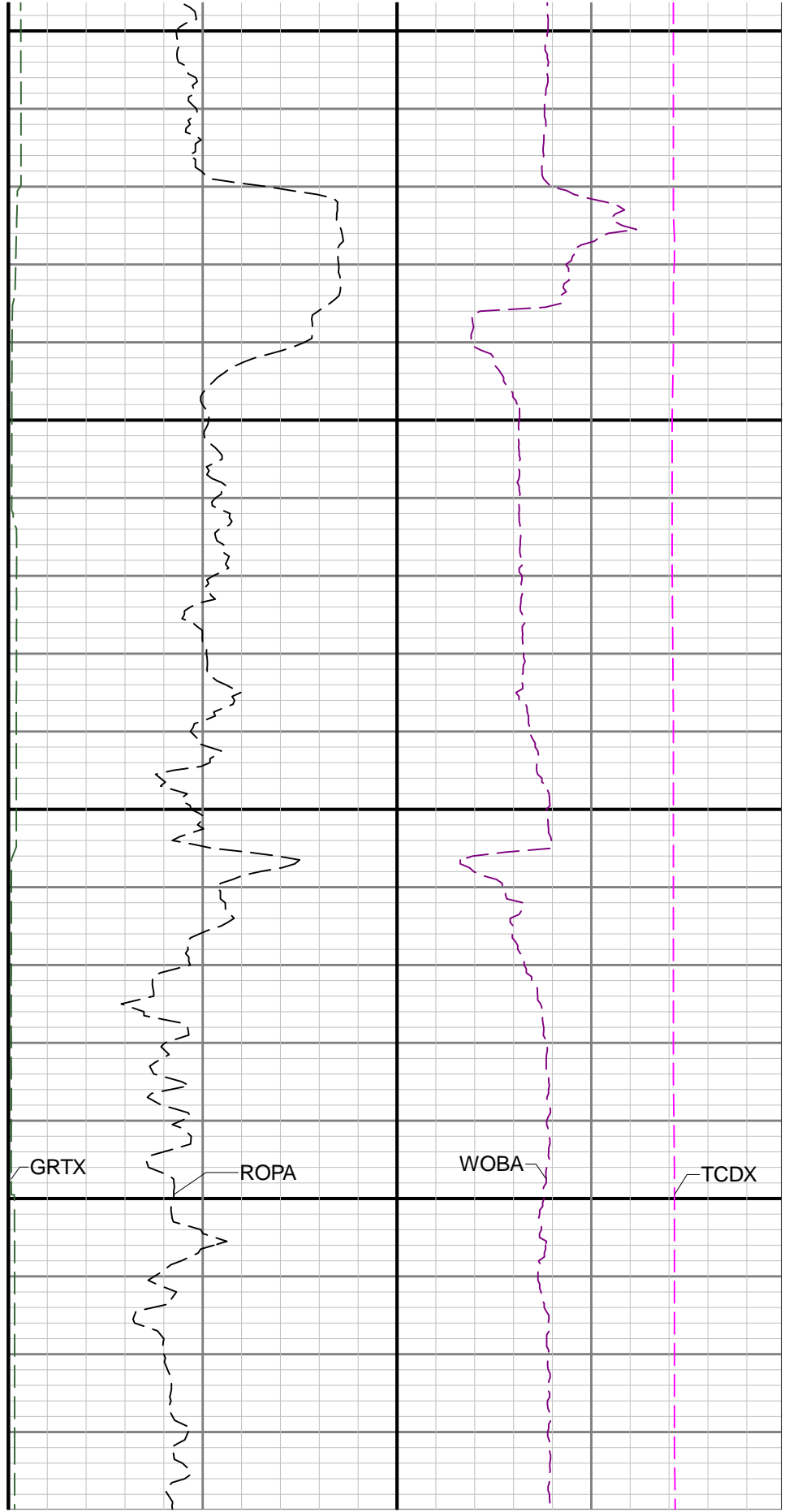
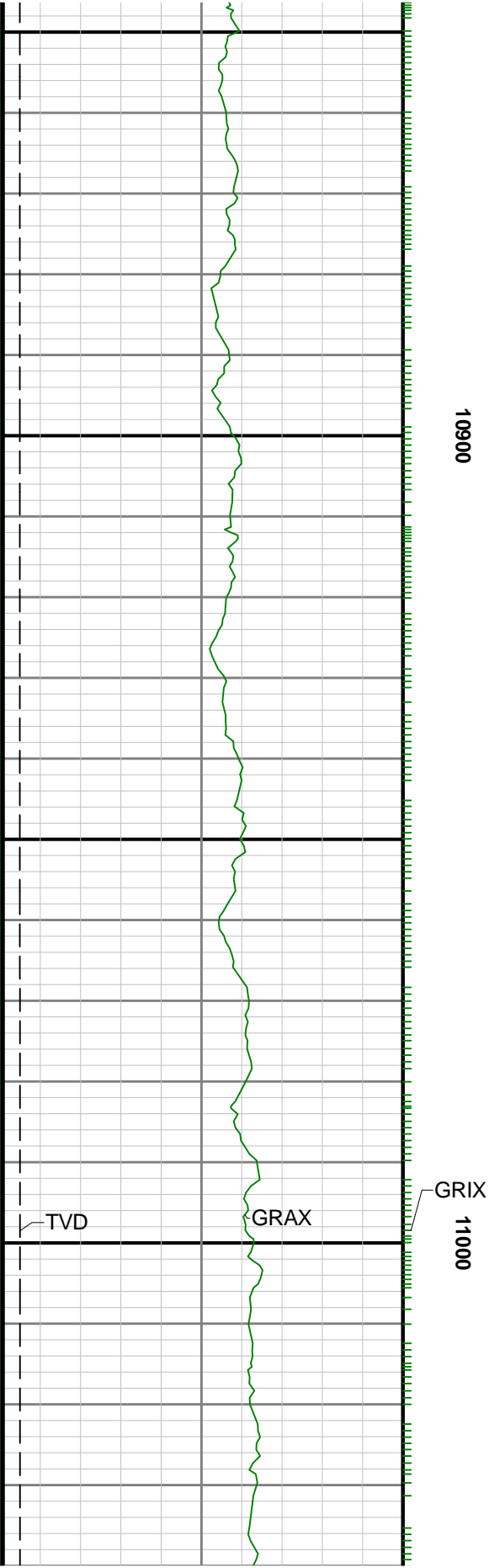
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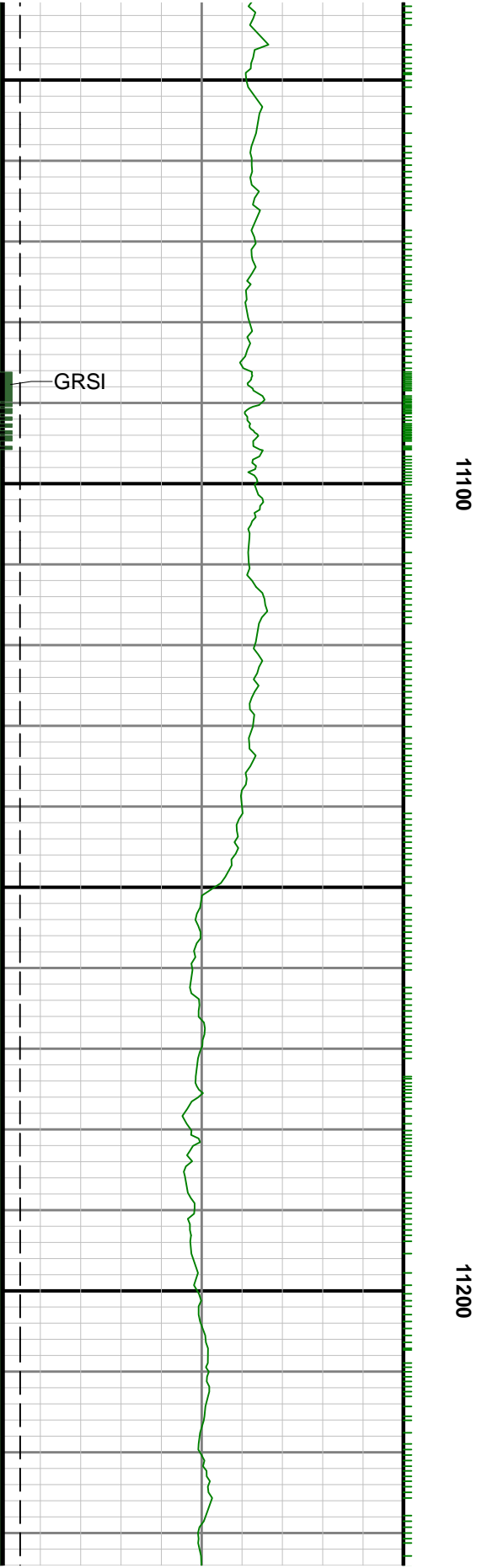
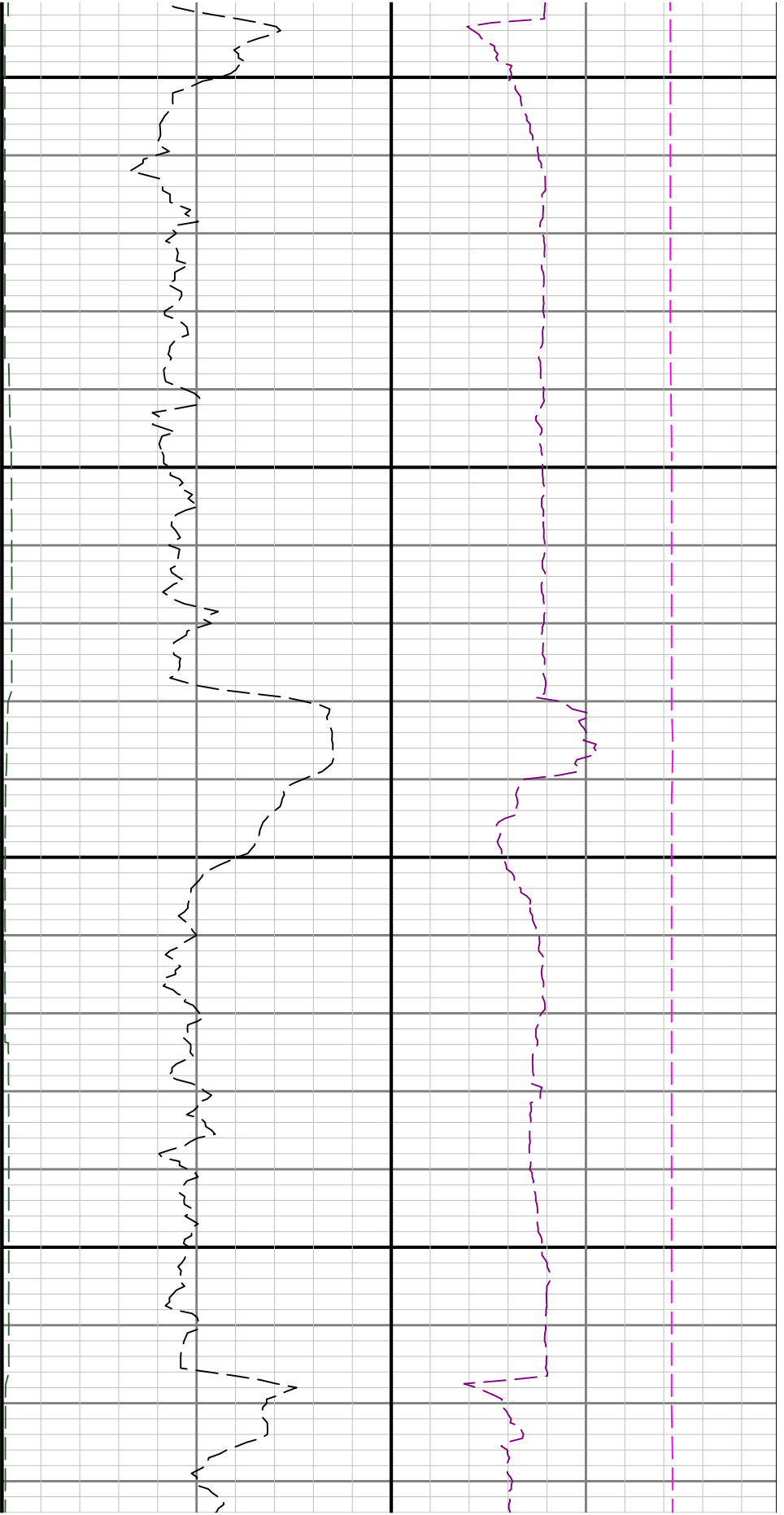


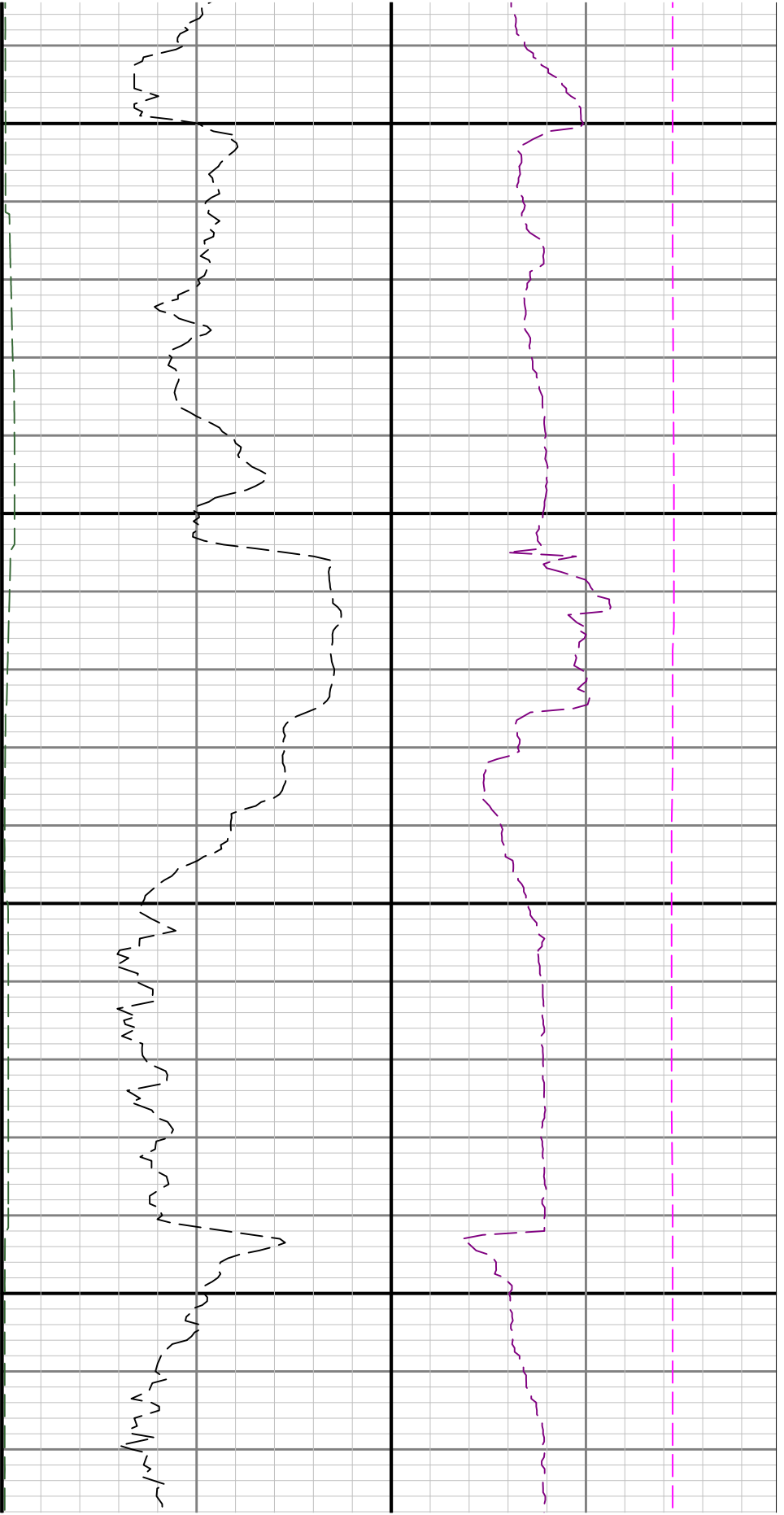


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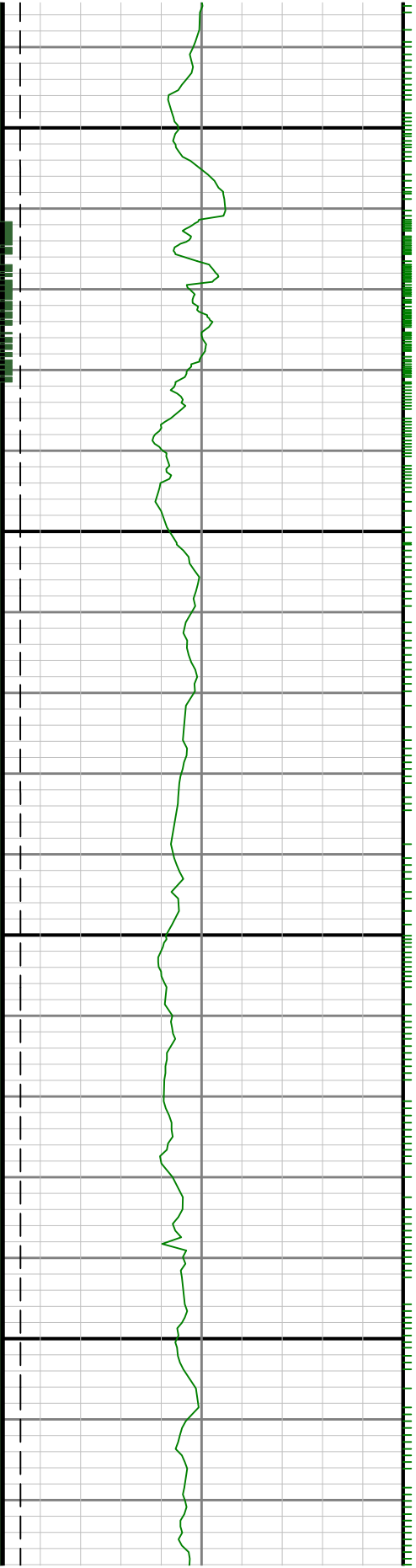


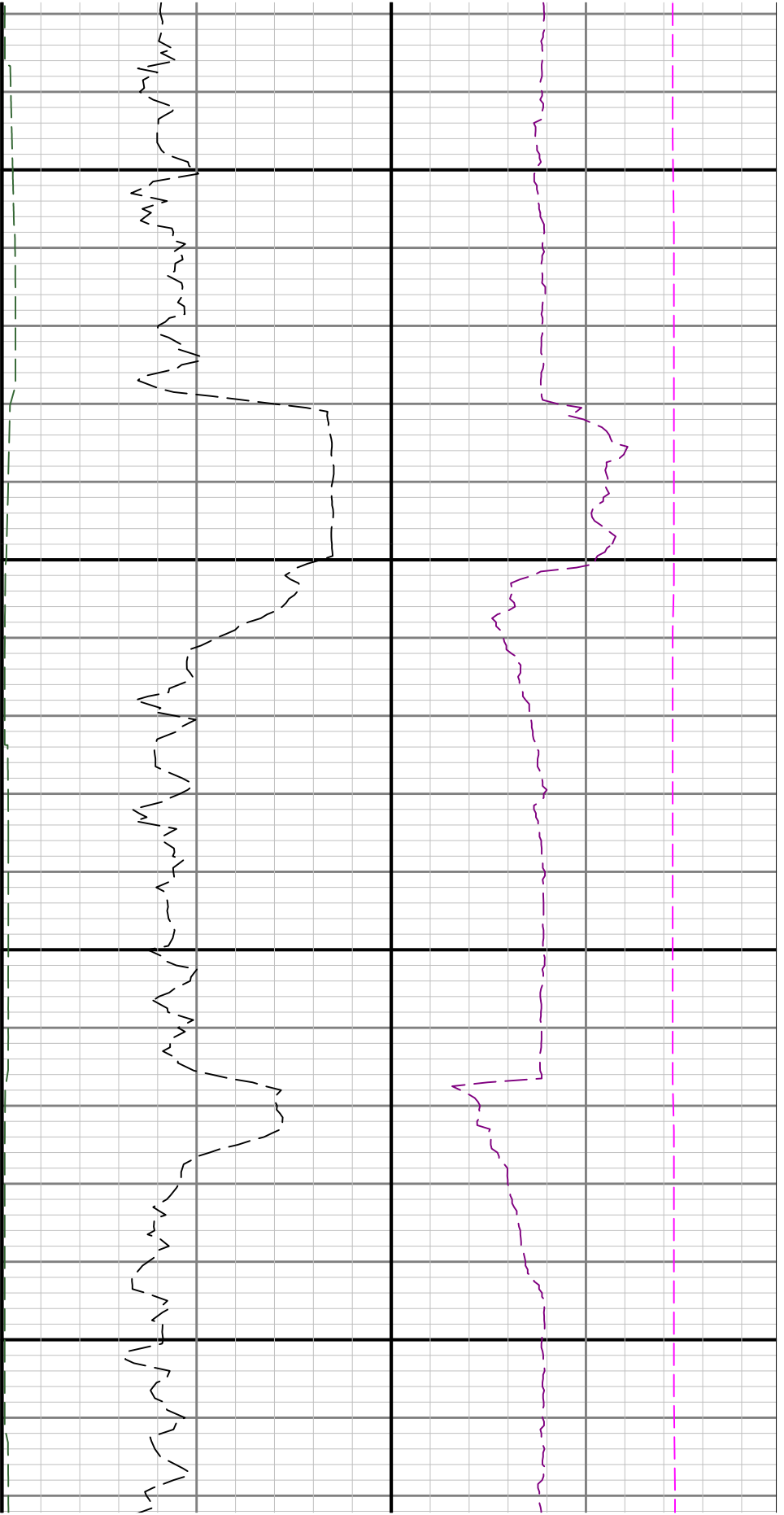




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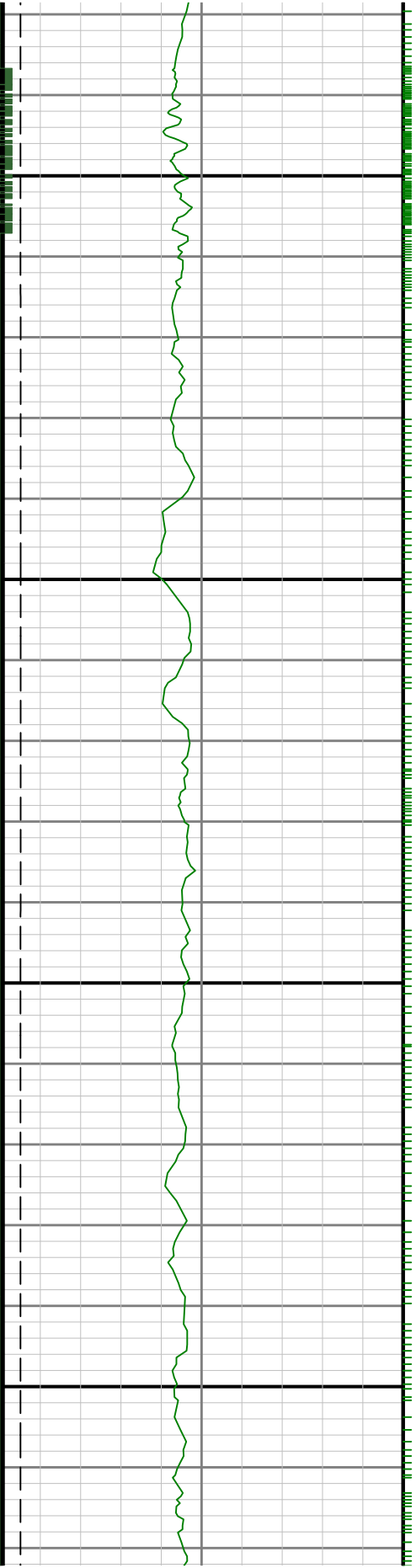
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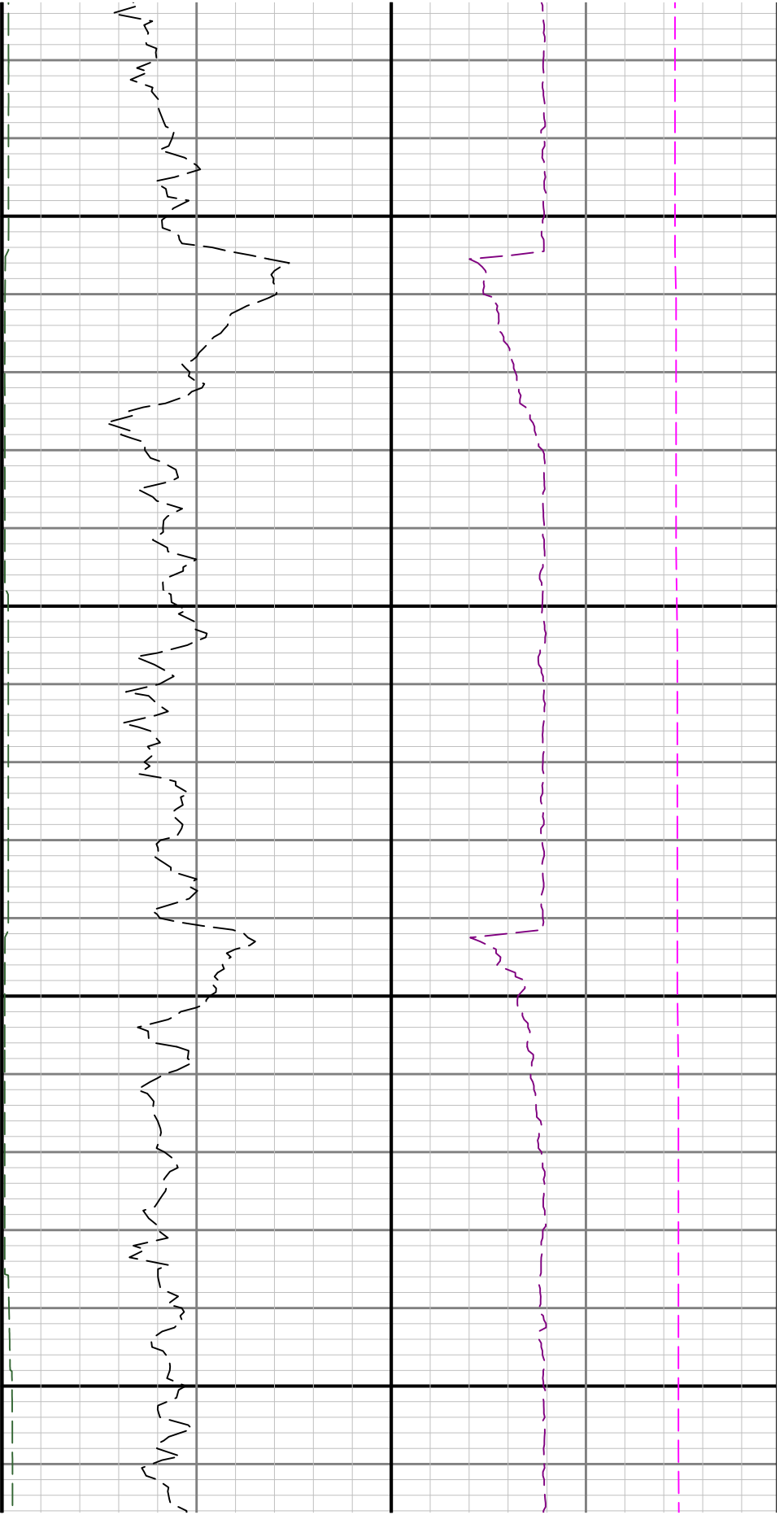




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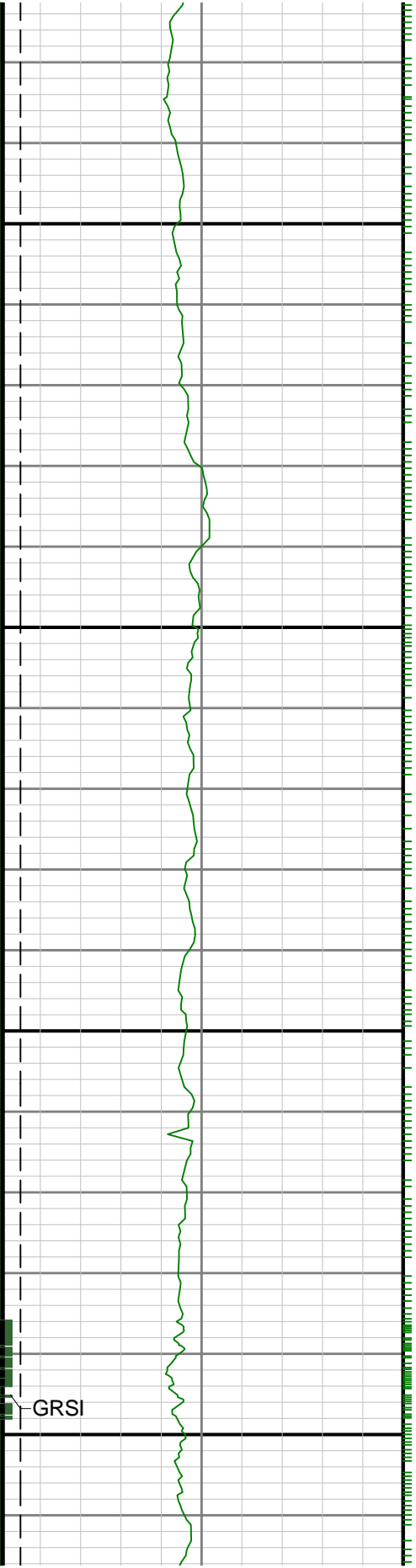
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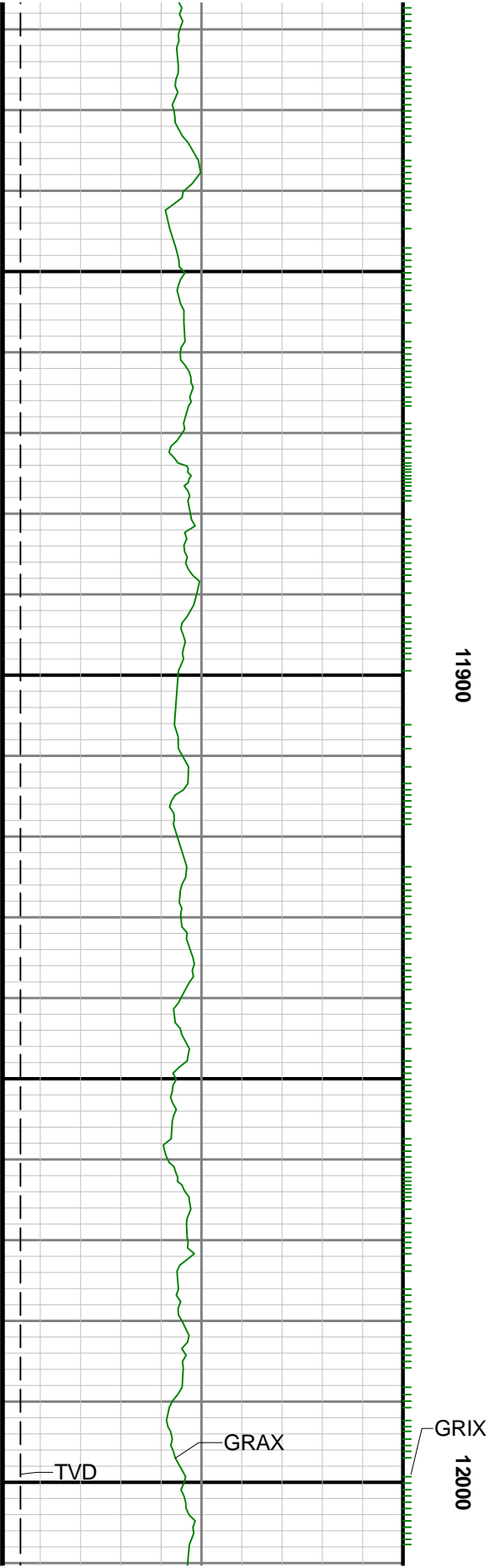


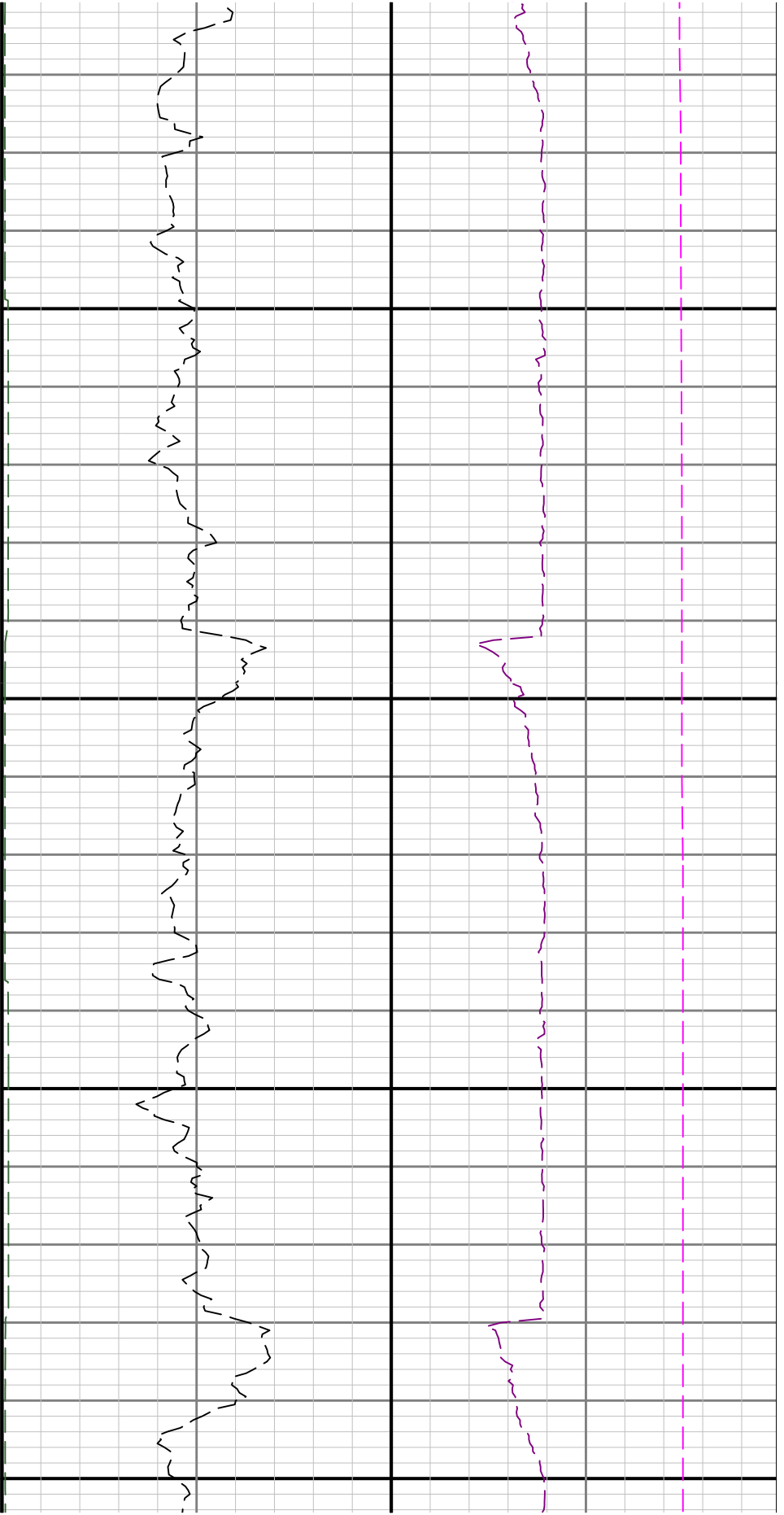
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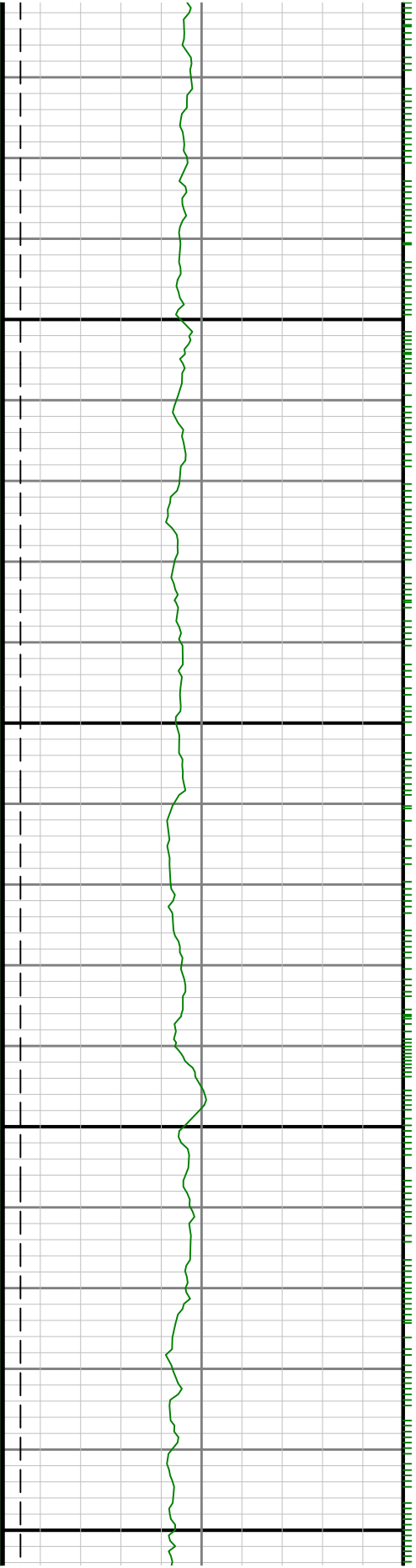
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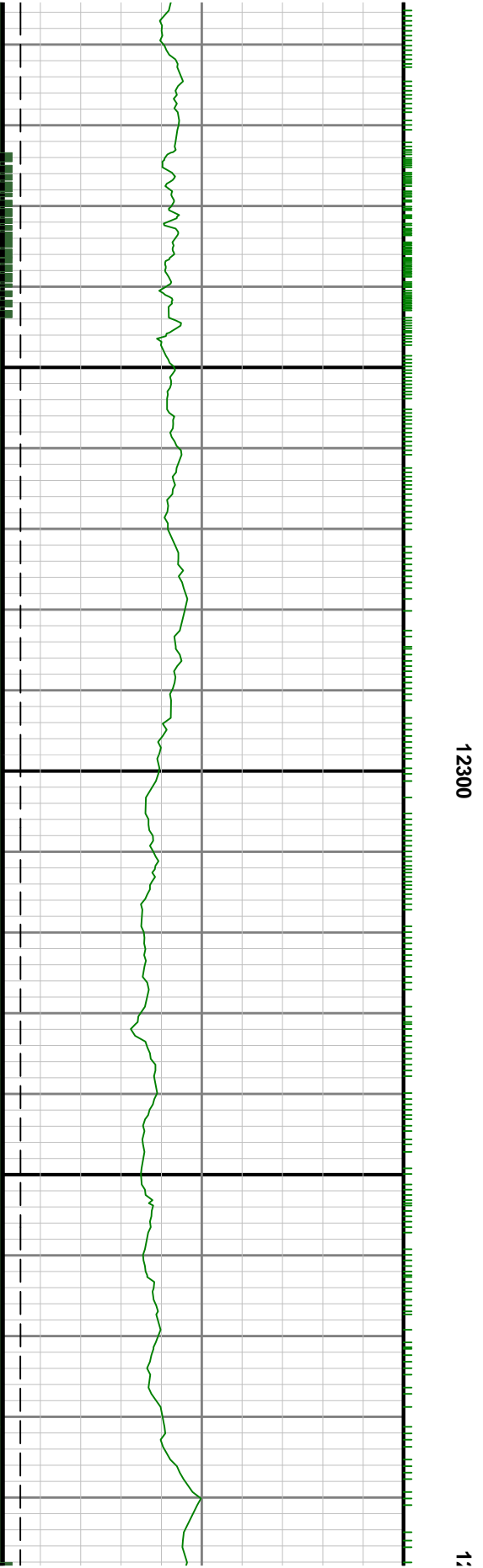
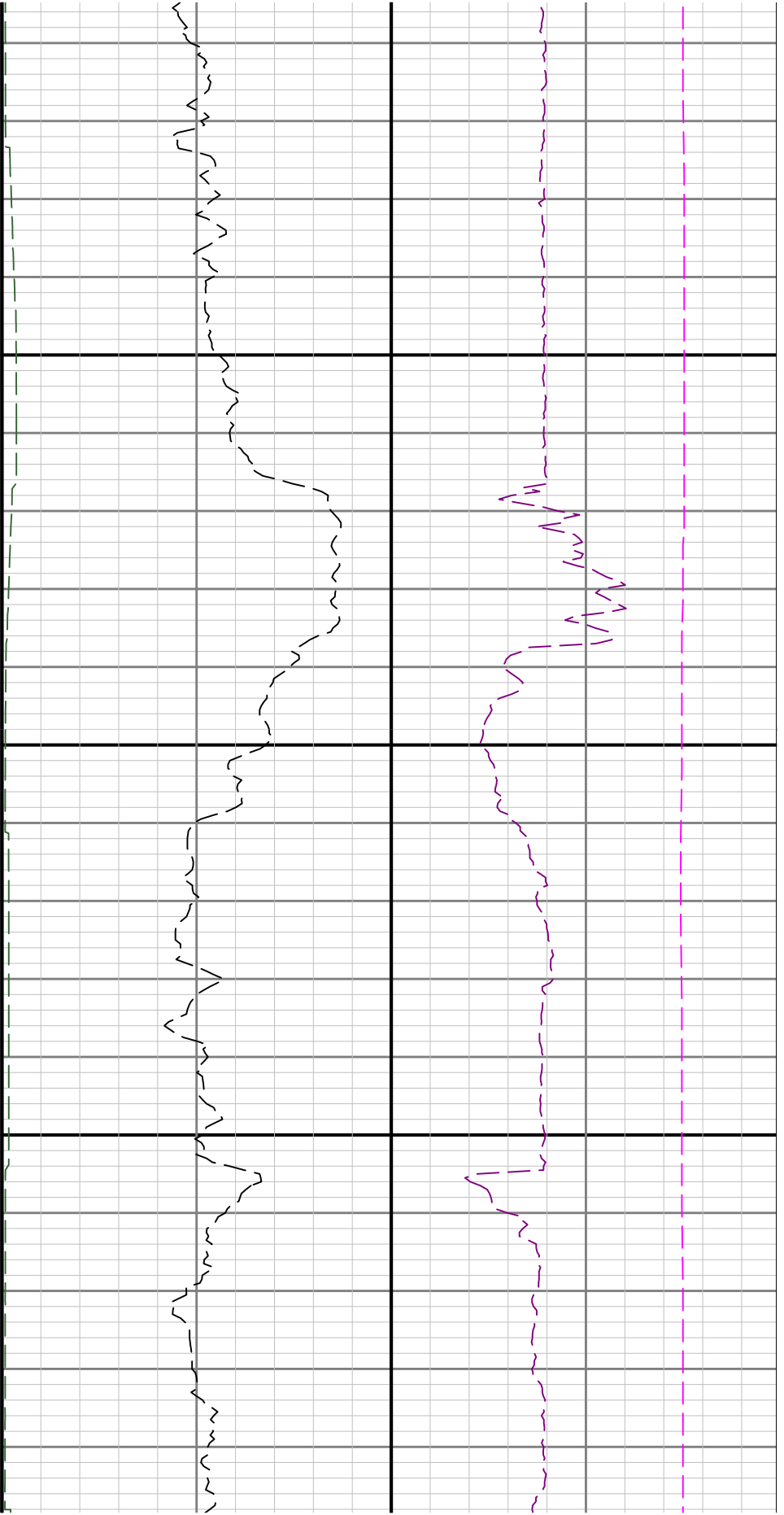


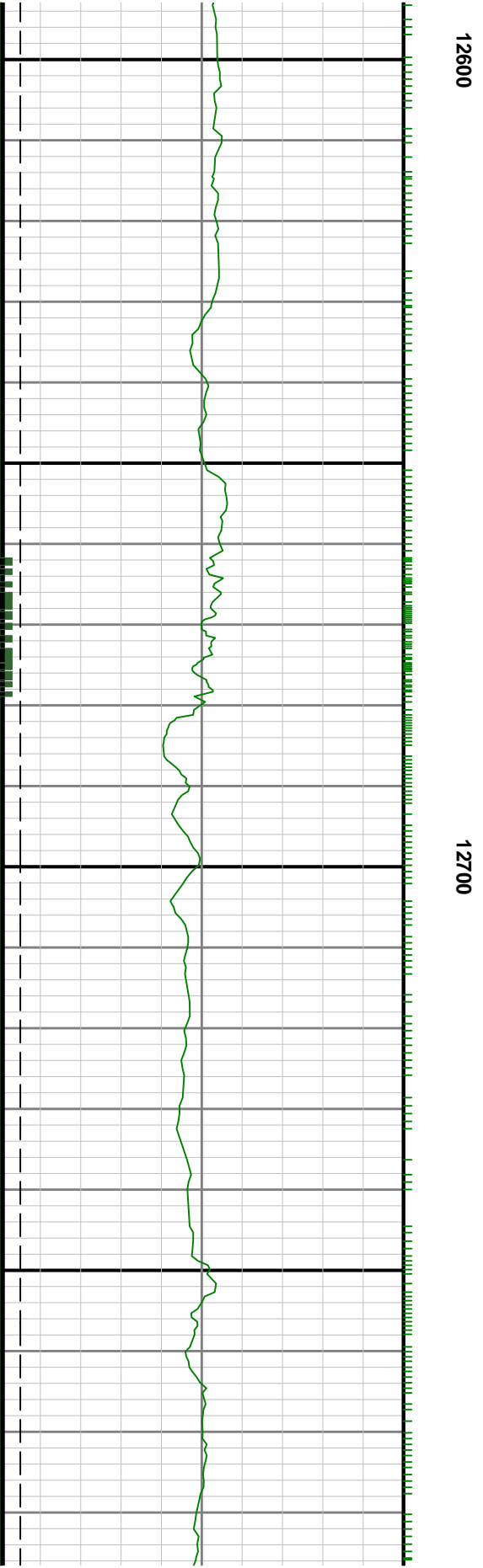
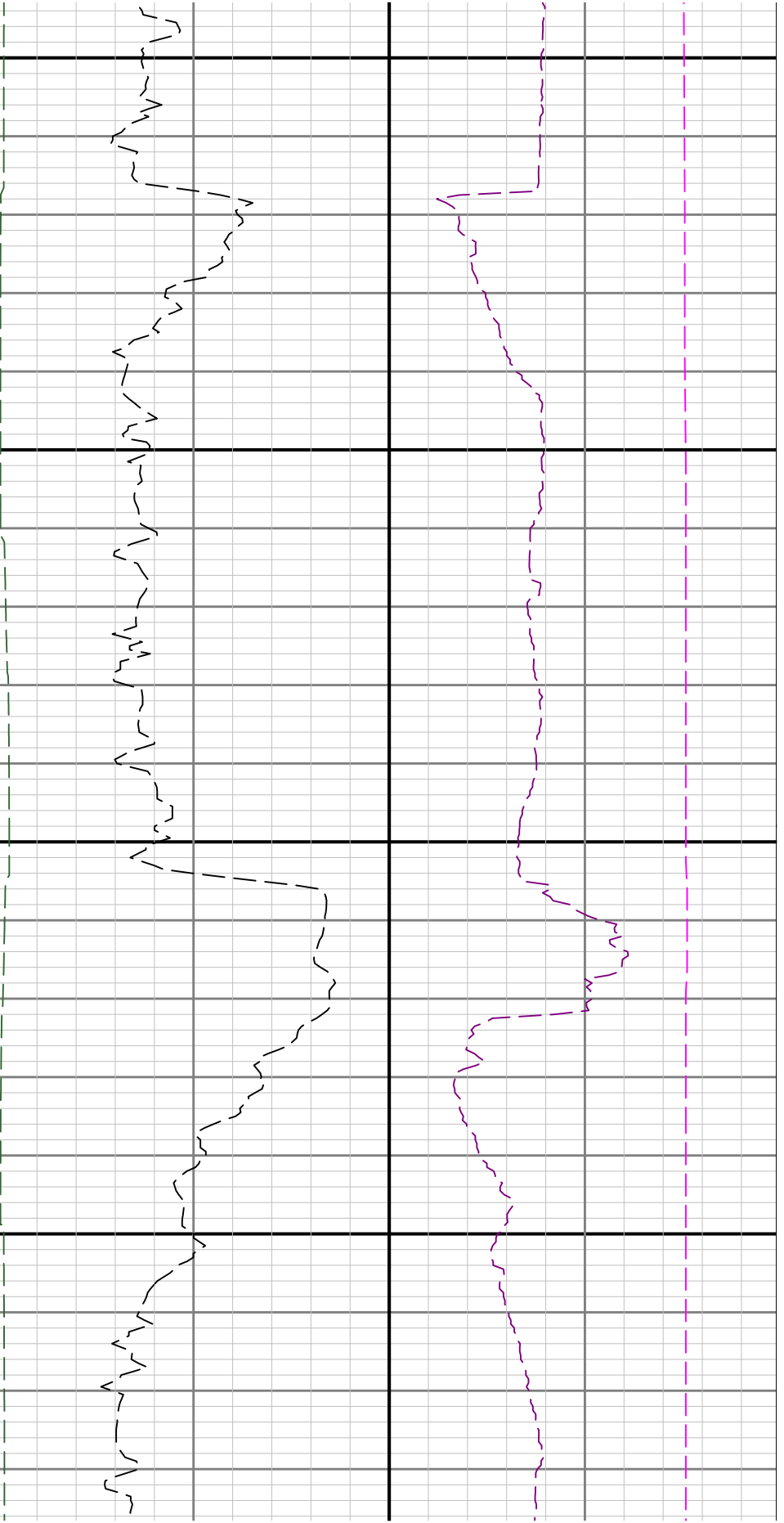


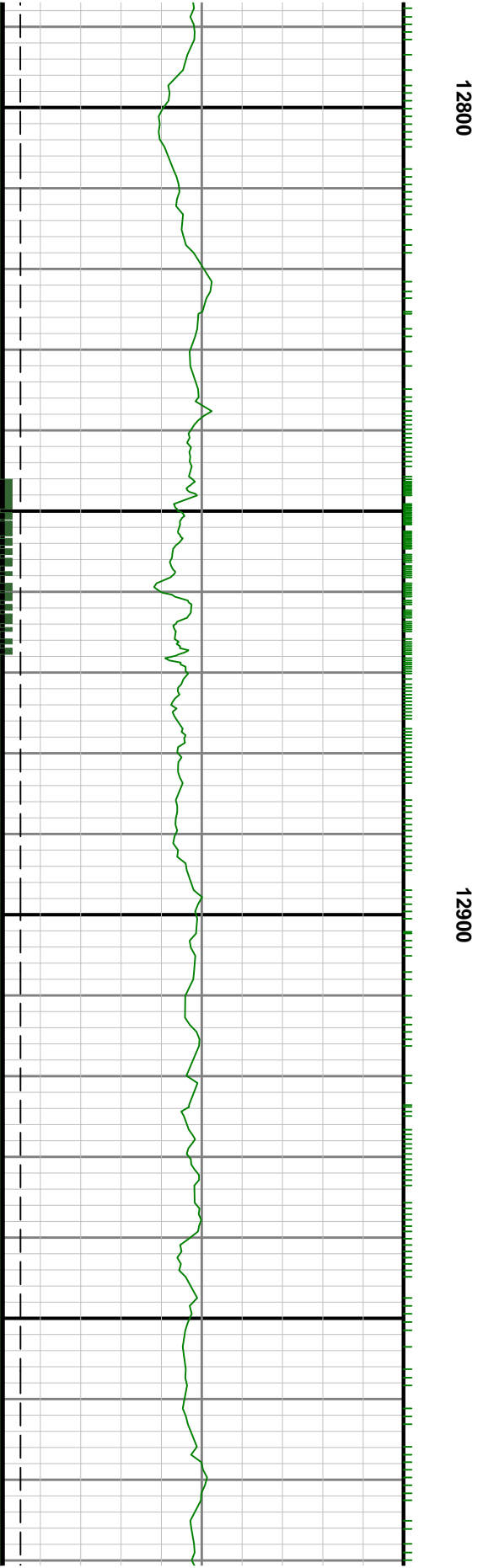
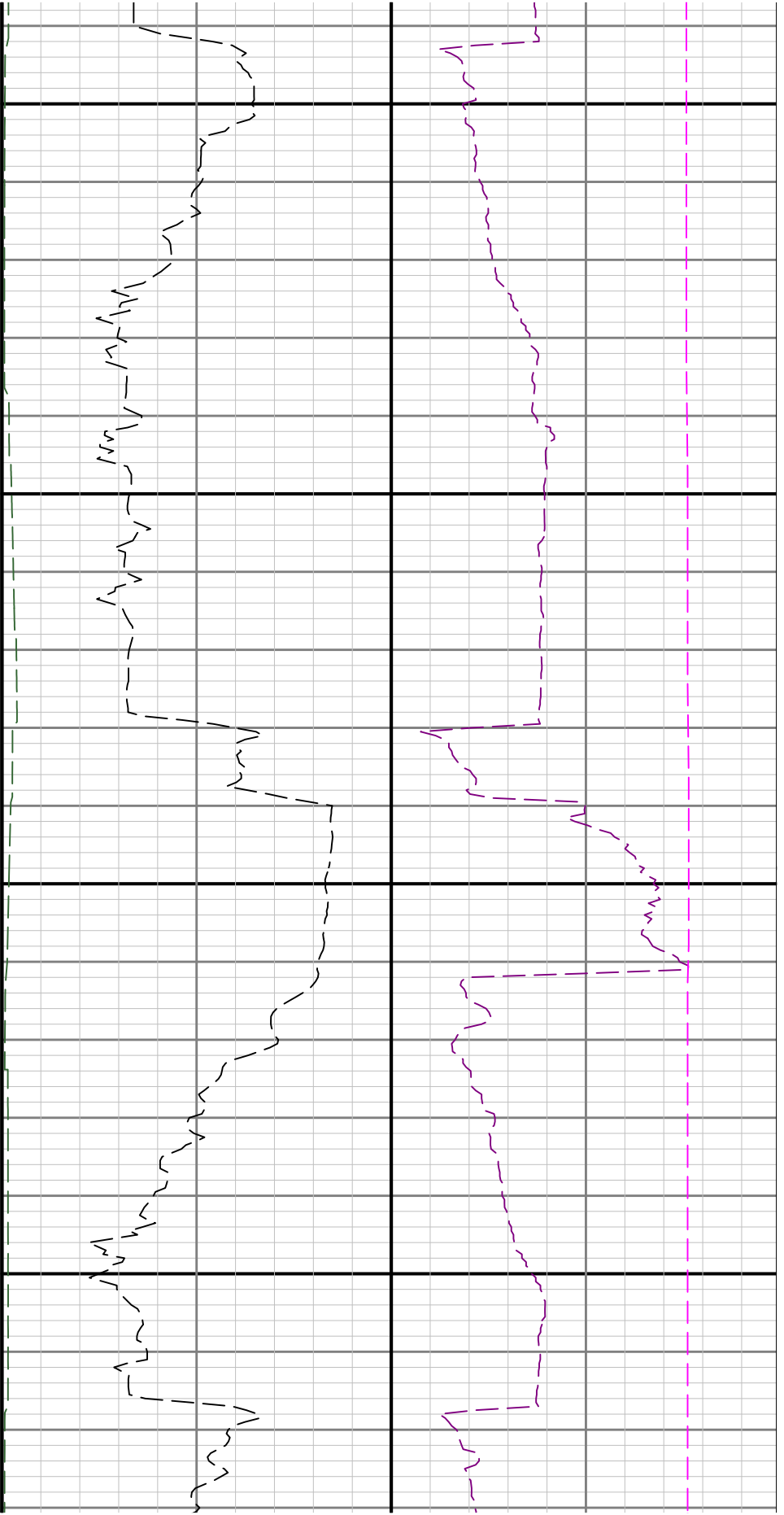
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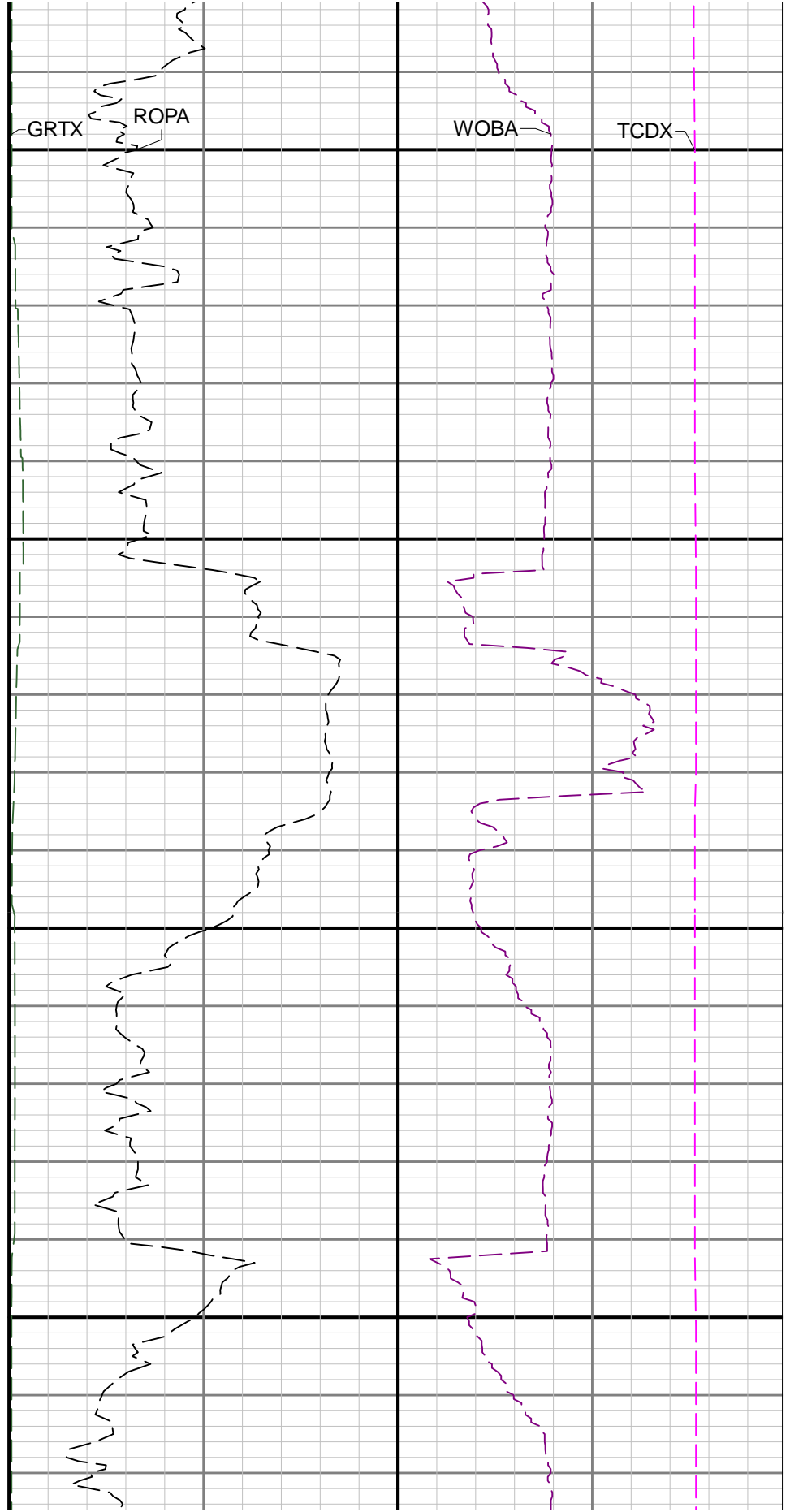
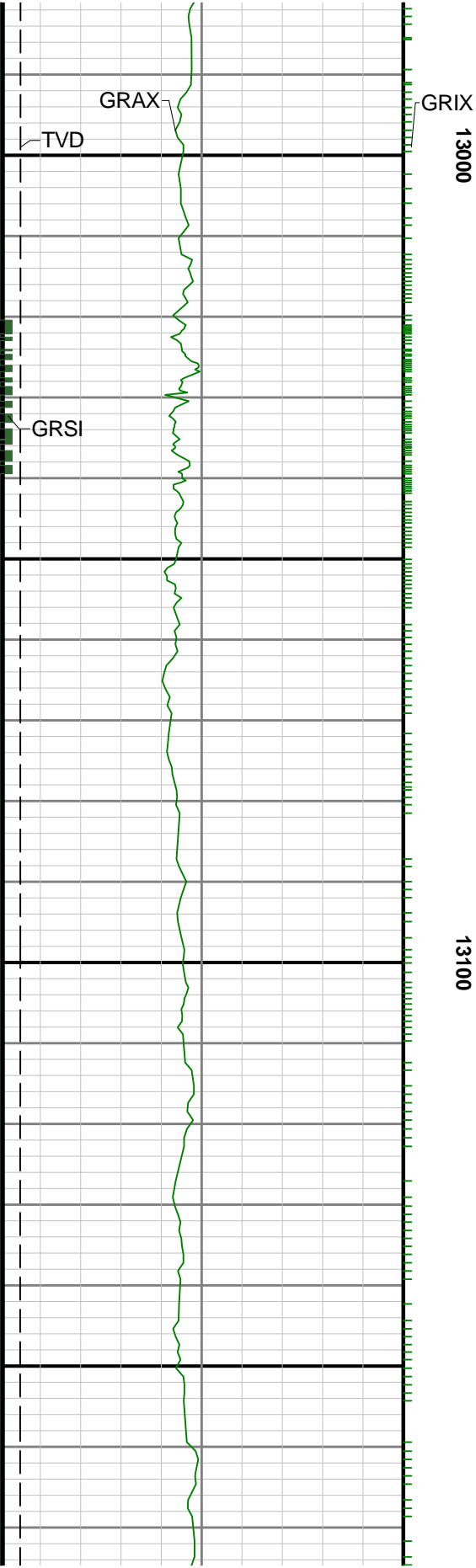
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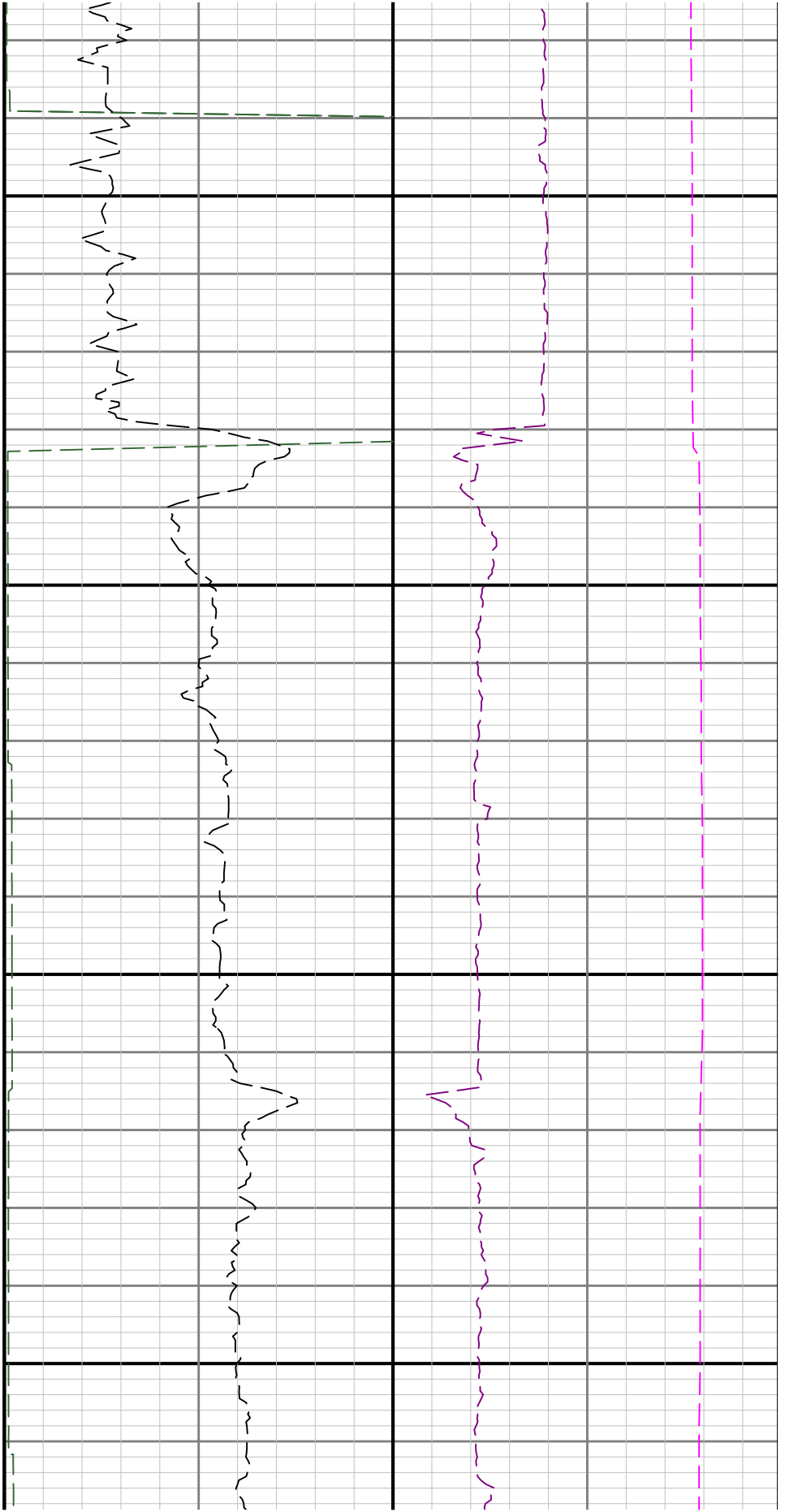








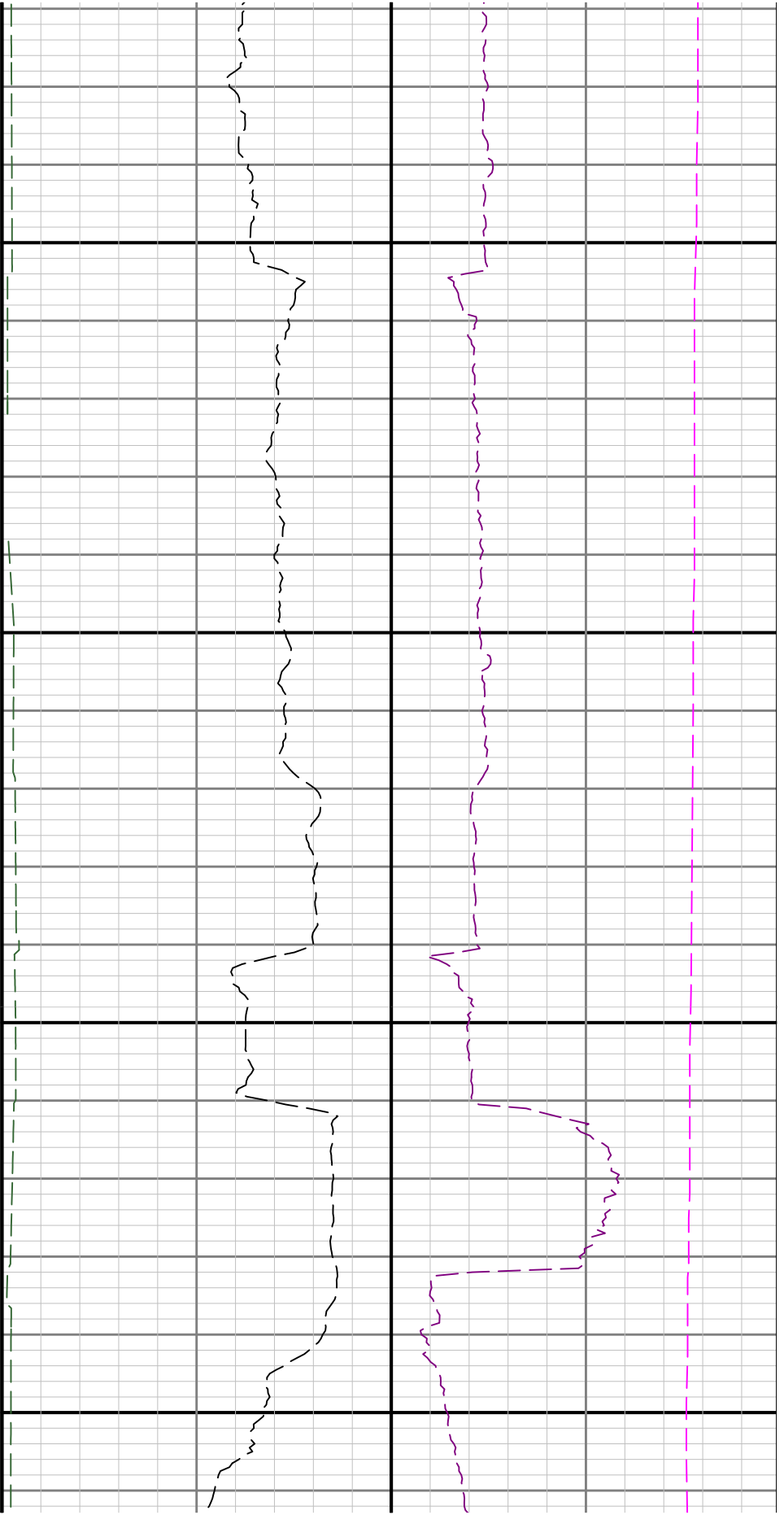




13200

13300

See Remark 3



13400

13500

See Remark 4

