

2018-02-25 11:53	1	1949.00	Oil Based Mud	9.1	10	N/A	22.0	80.9/19.1	Active Pit	21000	0.00
2018-02-26 05:10	1	6342.90	Oil Based Mud	9.2	10	N/A	18.2	80.9/19.1	Active Pit	28000	0.00
2018-02-27 05:15	1	12719.32	Oil Based Mud	9.5	13	N/A	20.3	83.6/16.4	Active Pit	25500	0.00
2018-02-28 06:04	1	17020.00	Oil Based Mud	9.5	12	N/A	22.4	84.2/15.8	Active Pit	23000	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	ATC_SU	12161973	Near Bit VSS	5.93	6.73	7.000	4.330
1	ATC_SU	12161973	Near Bit Inclination	5.93	6.73	7.000	4.330
1	ATC_MWD	12141334	Gamma (single)	2.76	12.90	7.000	3.250
1	ATC_MWD	12141334	Directional (mag)	12.27	22.41	7.000	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
ATC_SU	ATC_SU	Auto Trak Curve Steering Unit
ATC_MWD	ATC_MWD	Auto Trak Curve MWD
ATC_LCPM	ATC_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 run 1 utilized a 6.75 inch NaviGamma service (Directional and Gamma Ray) behind a 8.5 inch bit and rotary steerable assembly from 1949 to 17020 feet MD (1949 to 6978 feet TVD).
- 3
- VOA of 1.5 ft at 17020 feet MD (6978 feet TVD) was not logged after being drilled due to sensor to bit offset at well TD.

Remarks

Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	5040.00	8.500	1	The gap in Gamma Ray from 5035 to 5078 feet MD (4990 to 5032 feet TVD) due to downlink while drilling, during this process there was not enough flow to maintain power to the LWD tool.
2	17010.00	8.500	1	The interval from 17007 to 17020 feet MD (6978 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	Downhole Temperature	degF



Company

Well

Interval

Created

Noble Energy

Centennial State G34-635

Date From:2018-02-25 07:03:41

Date To:2018-02-27 16:03:04

2018-02-28 16:20:51

Top:1949.00

Bottom:17020.00

Gamma Ray - Apparent 0.5 ft Average GRAM

0300

API

75006500

ft

MD 1:240 feet

9 5/8" Casing

Depth Averaged ROP 3 ft Average ROPA

10000

ft/h

Gamma Time Since Drilled GRTM

0600

min

Weight On Bit, Average 1 ft Average WOBA

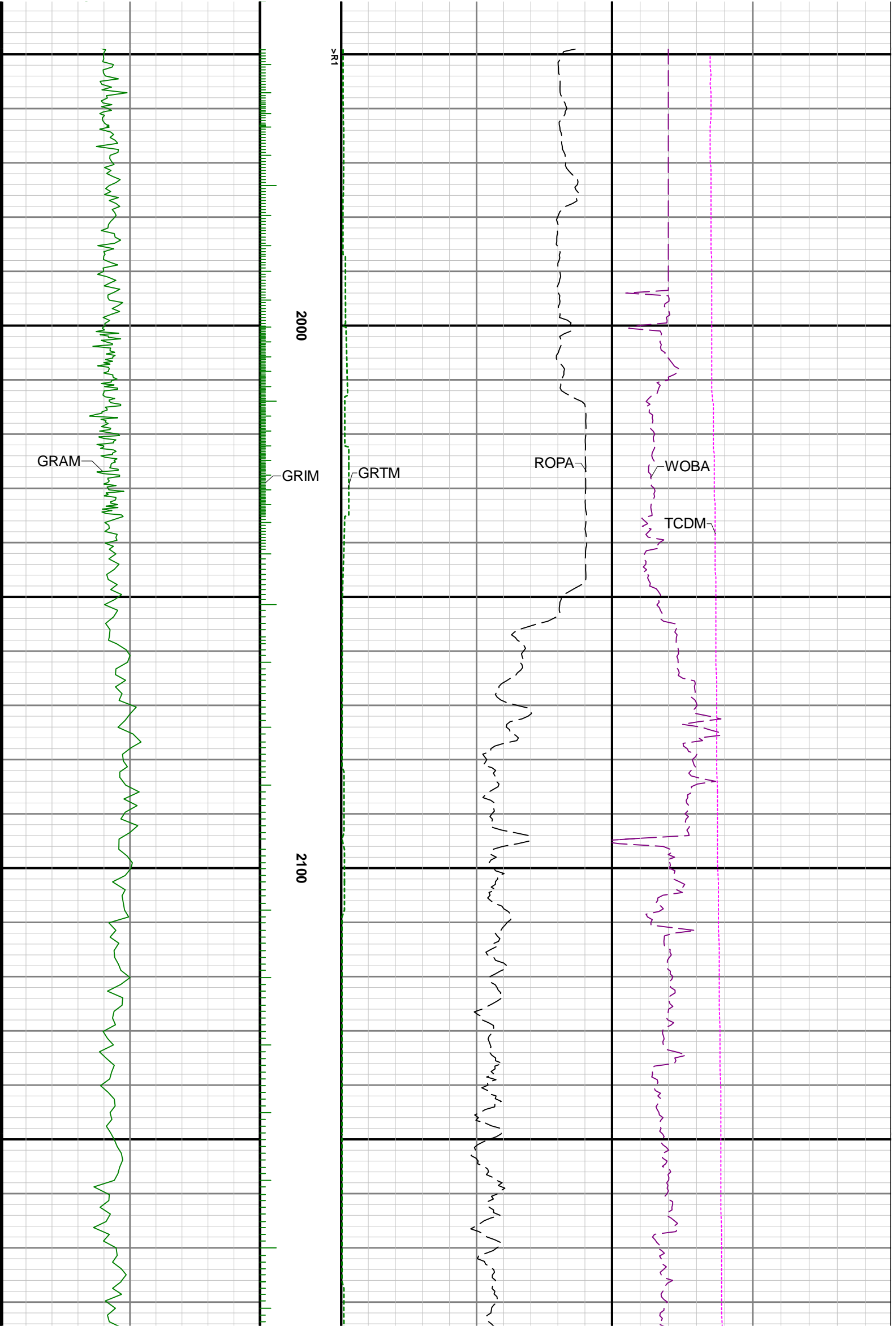
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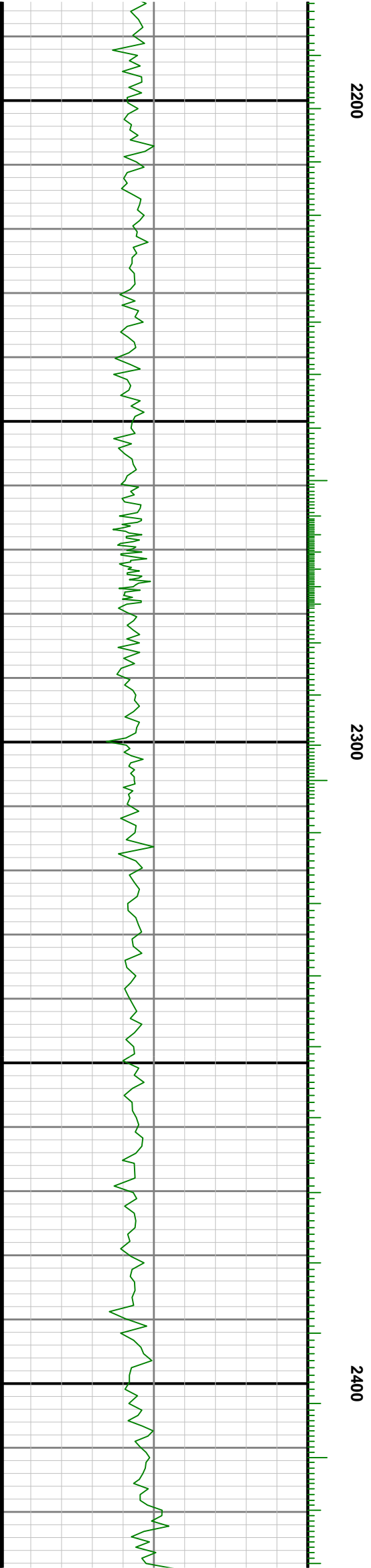
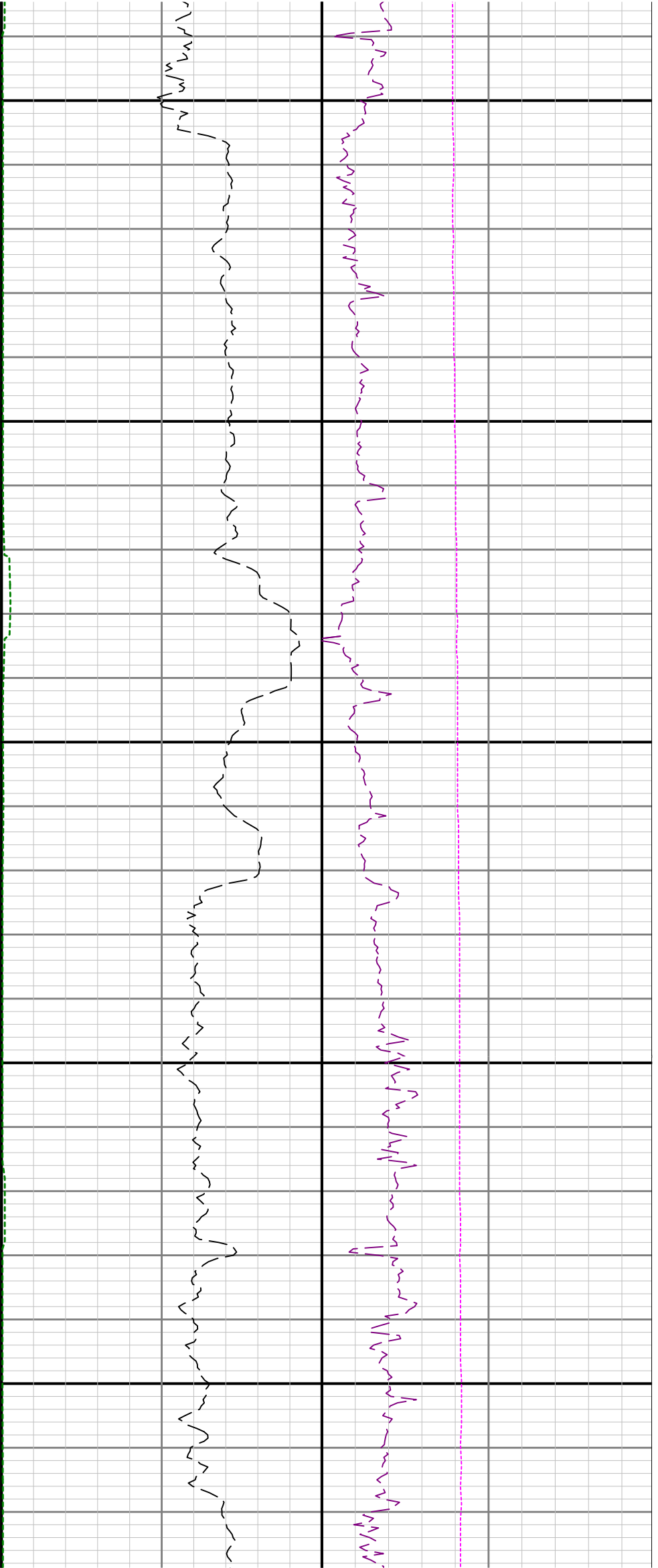
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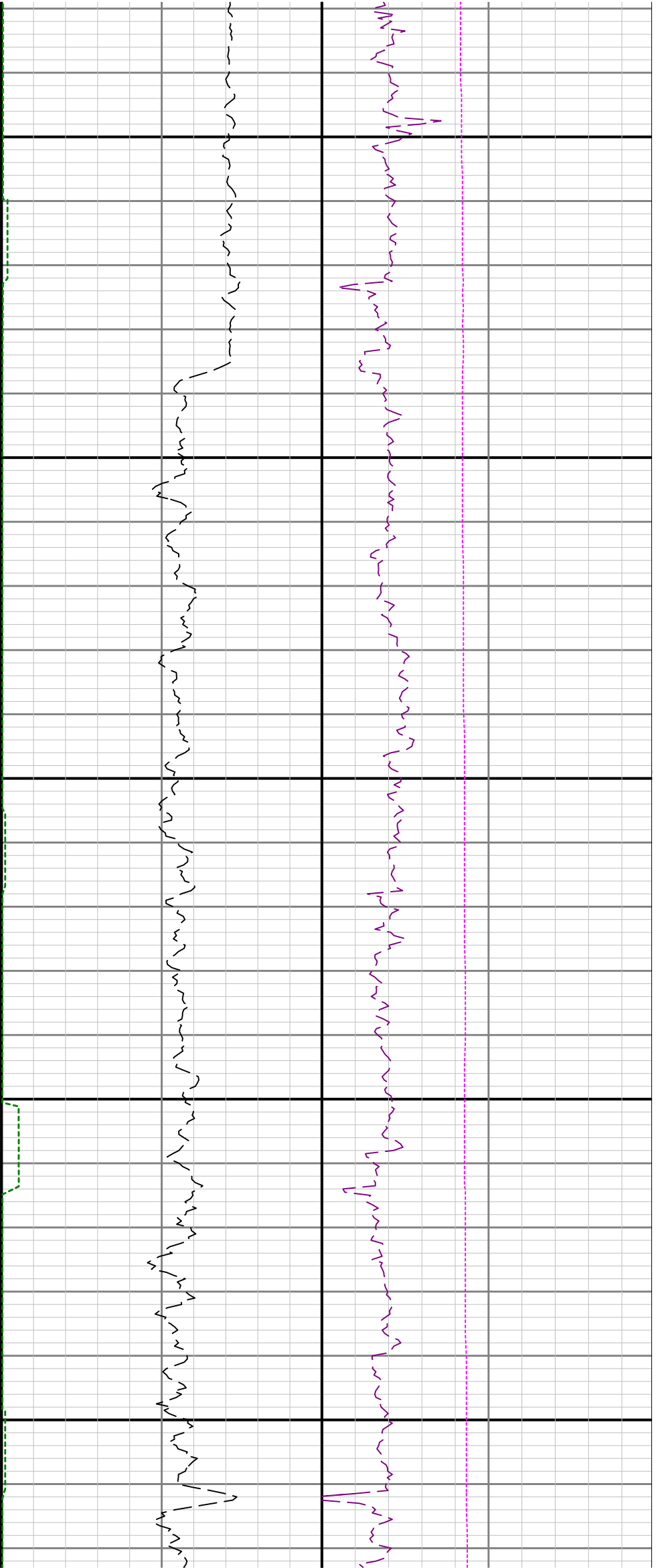
Downhole Temperature TCDM

0300

degF

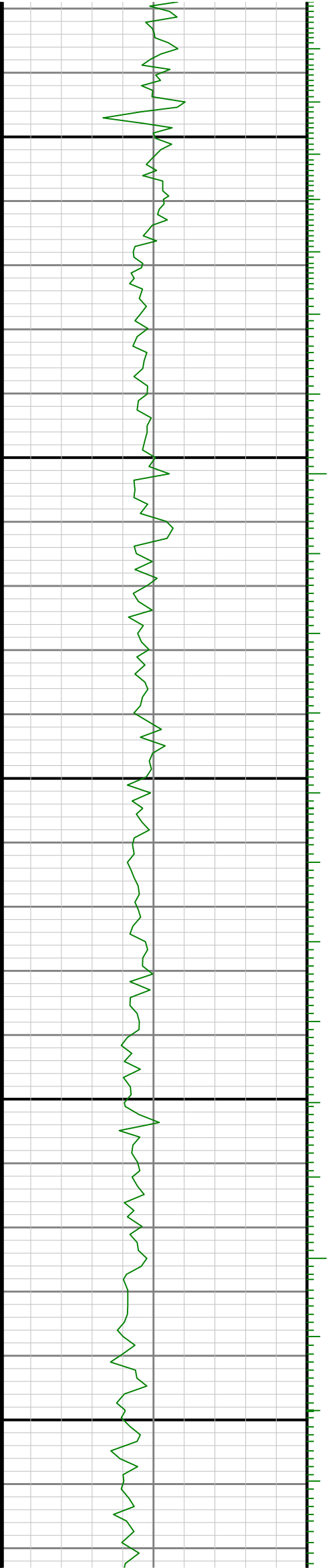


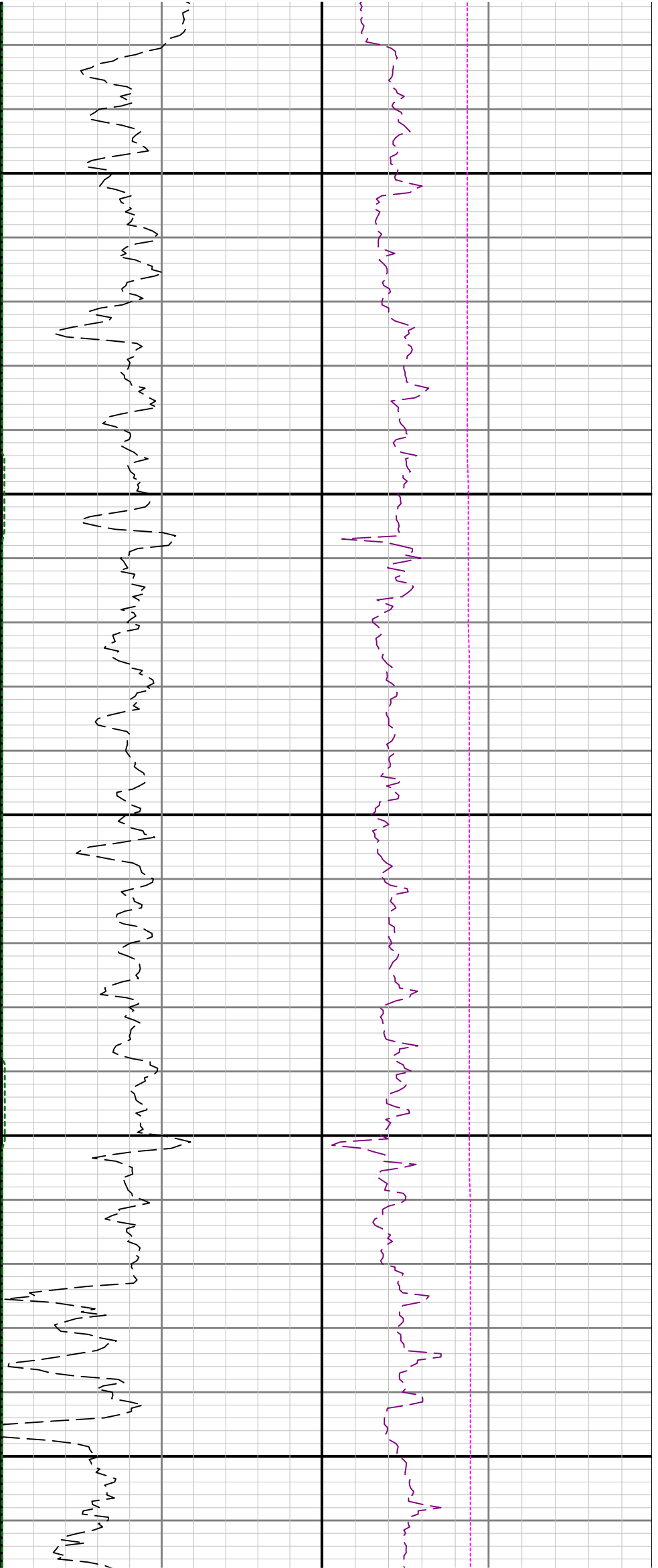




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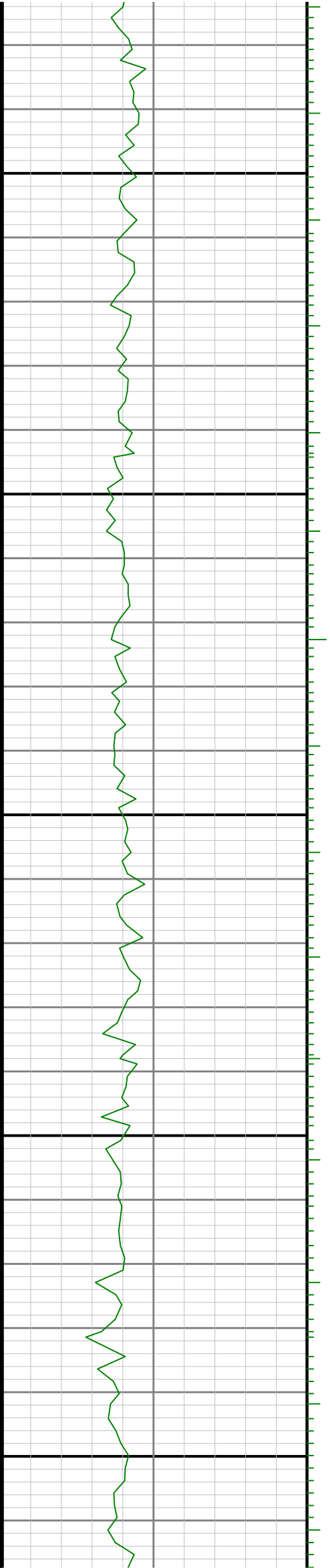


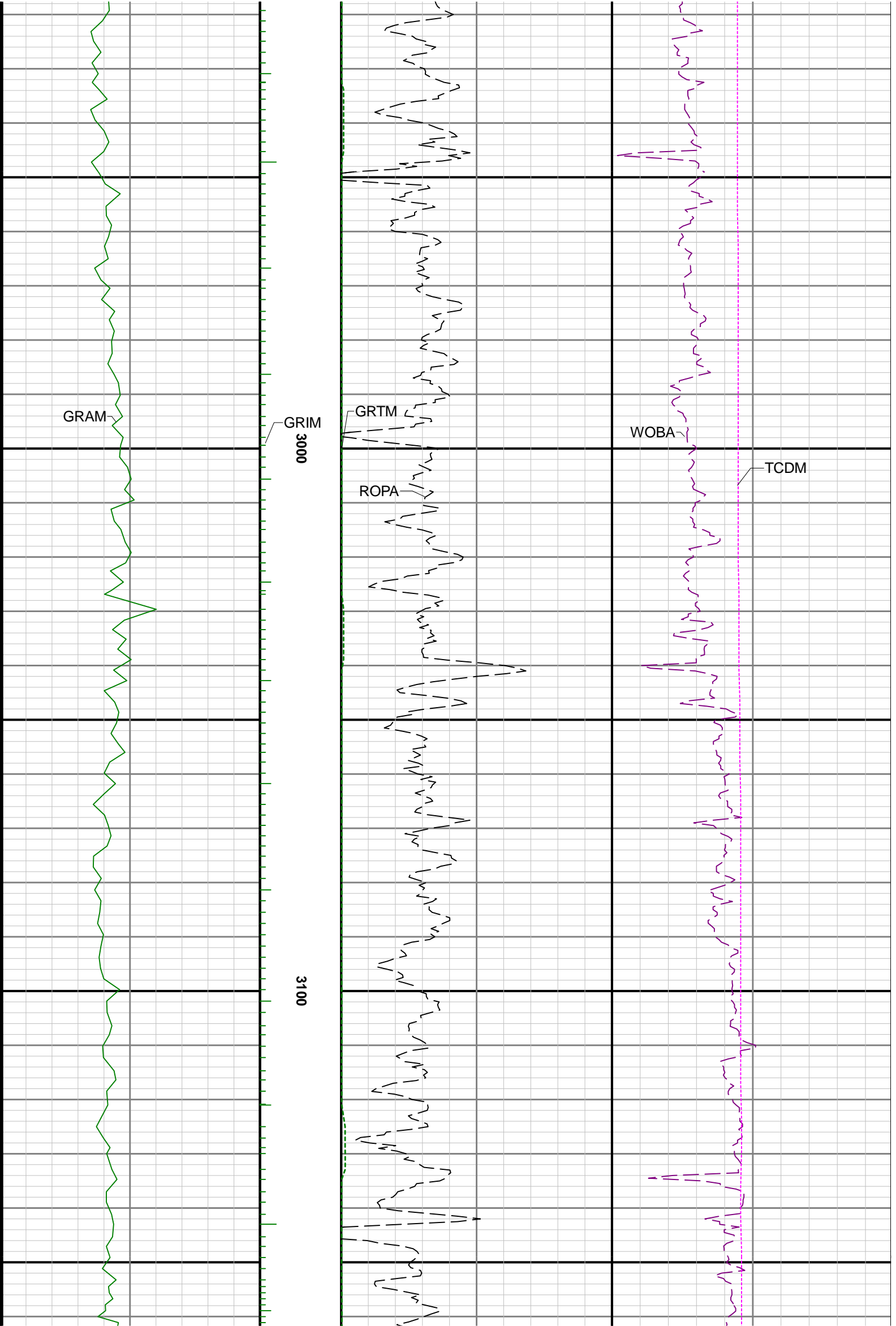


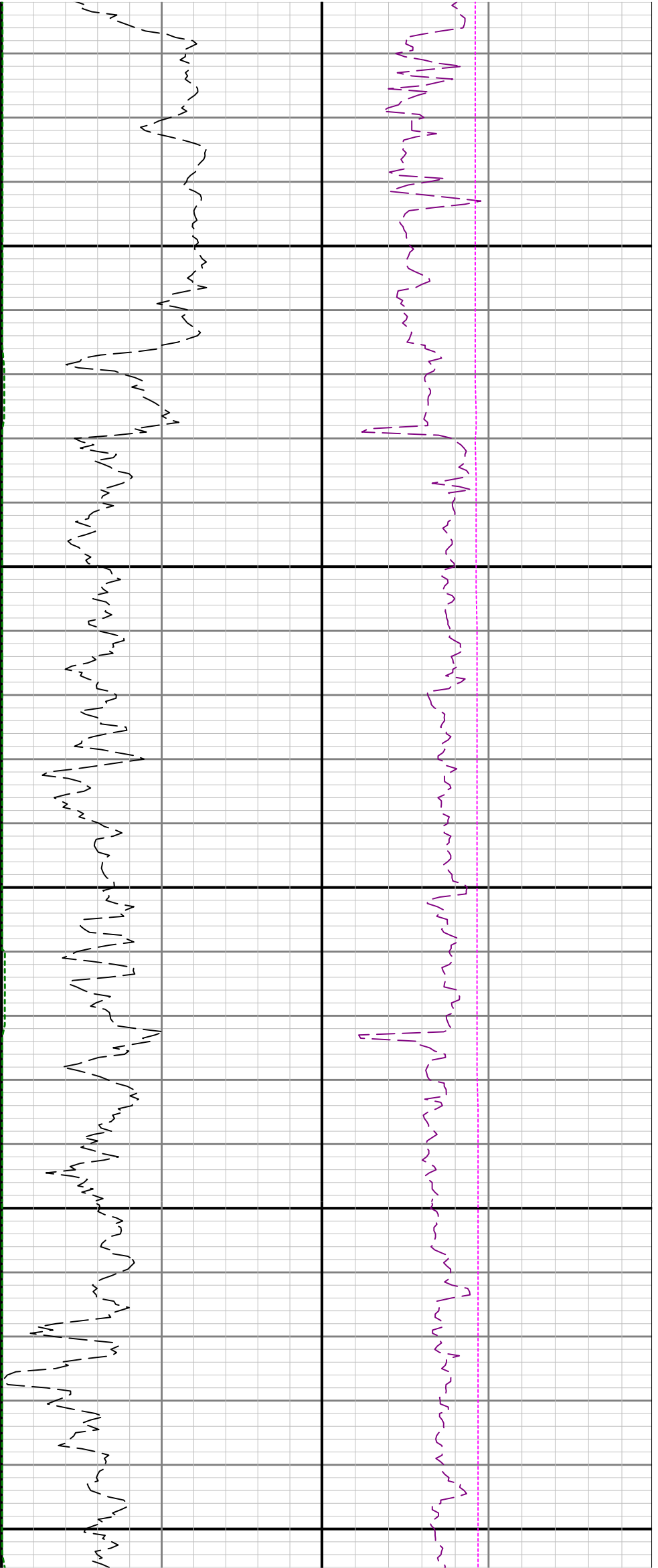
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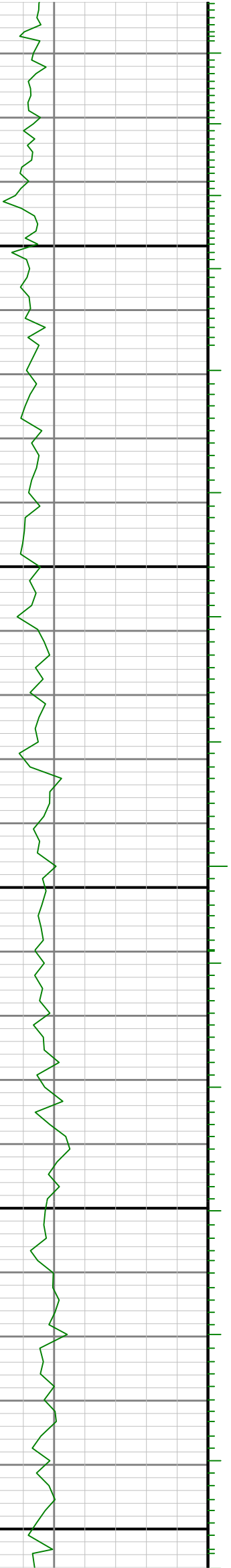


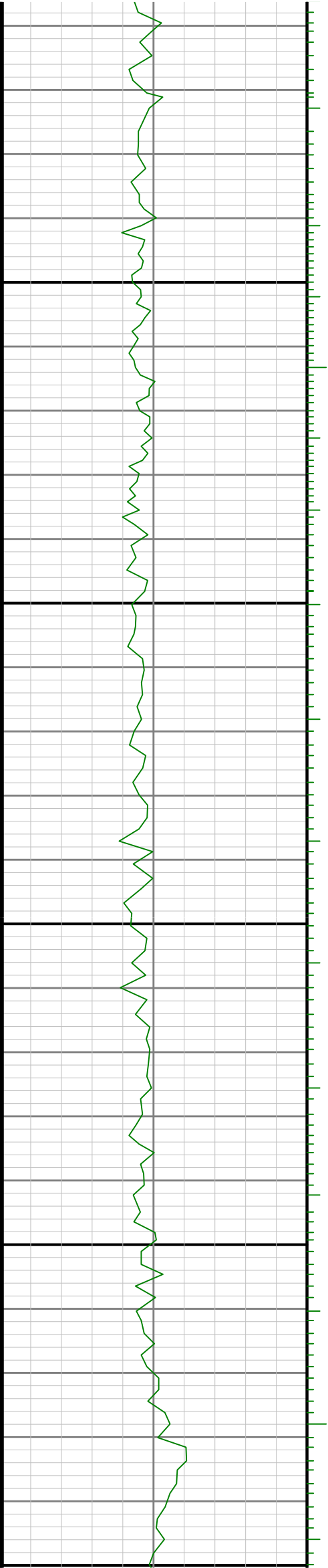
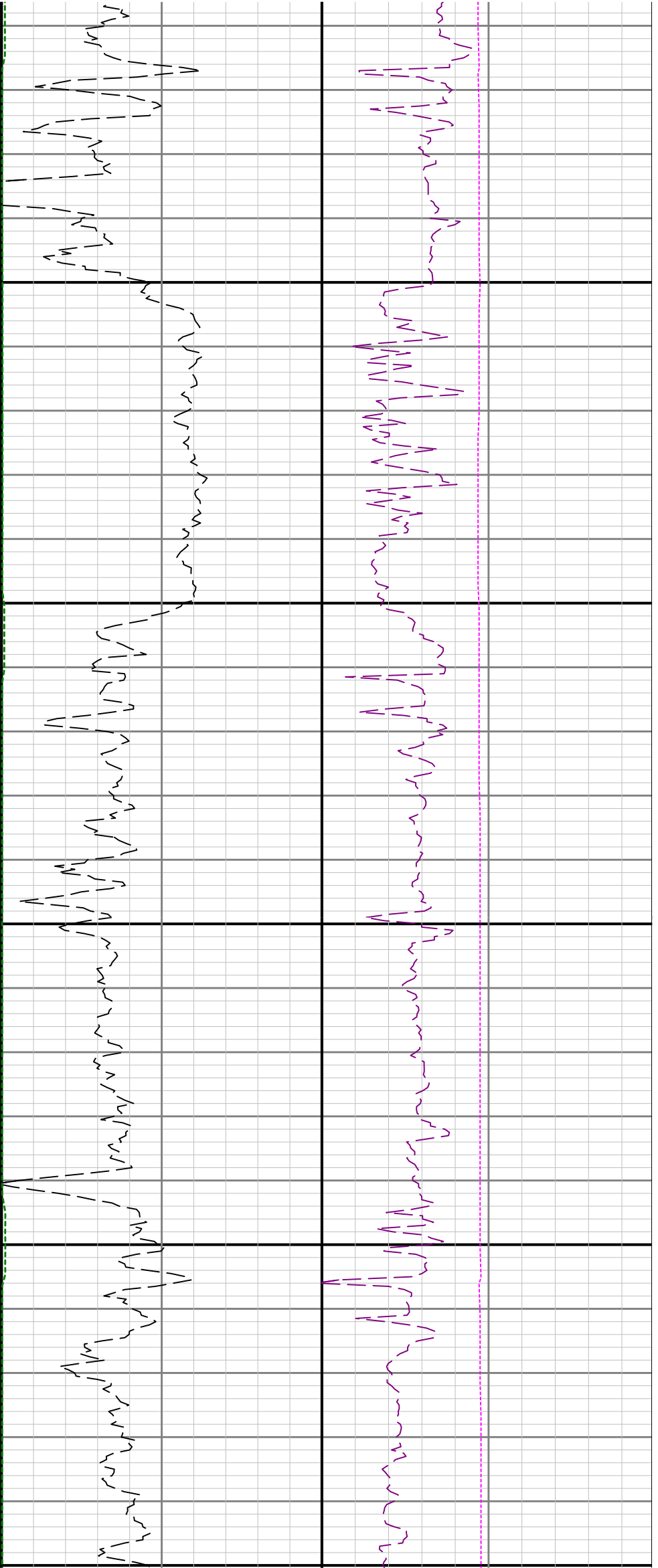


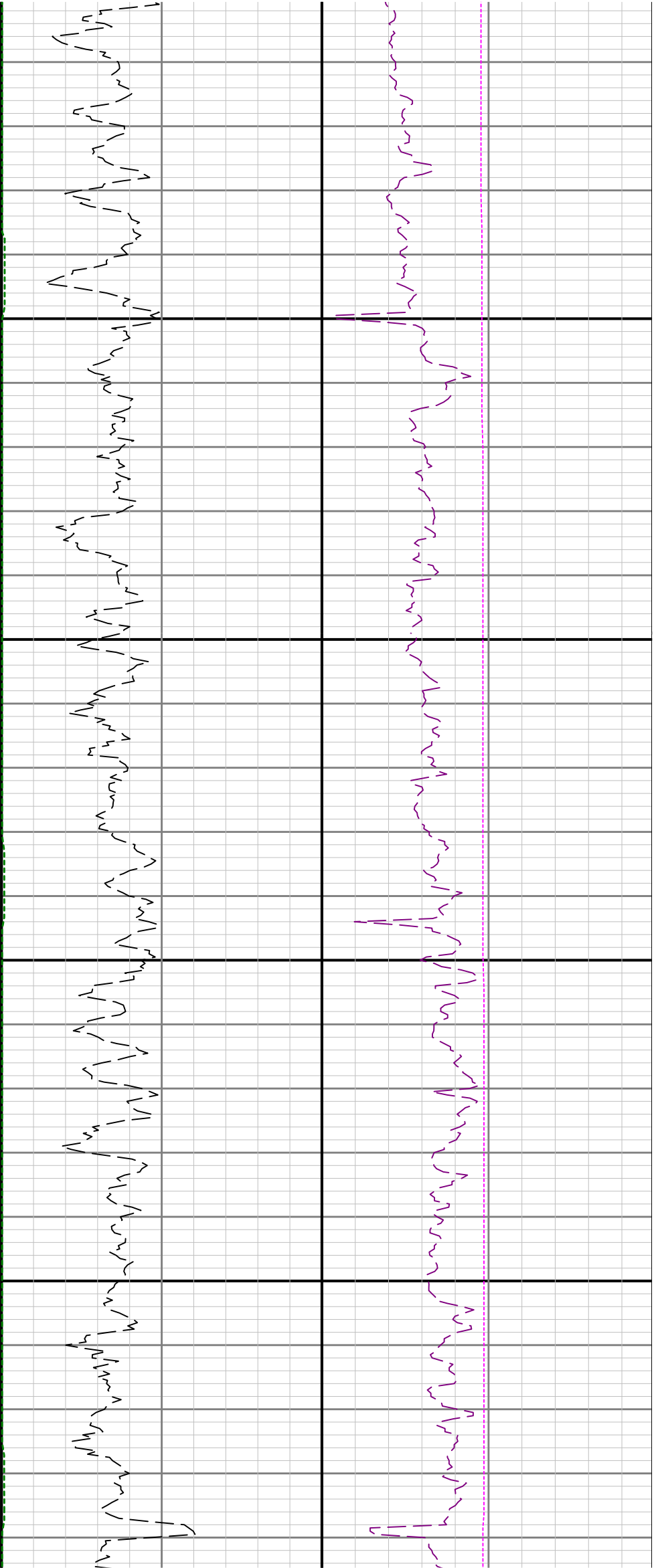
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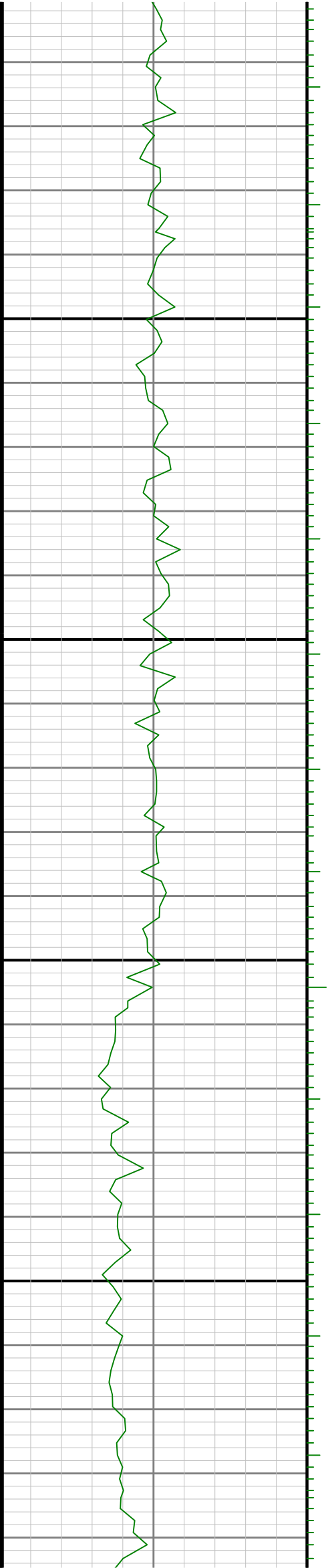


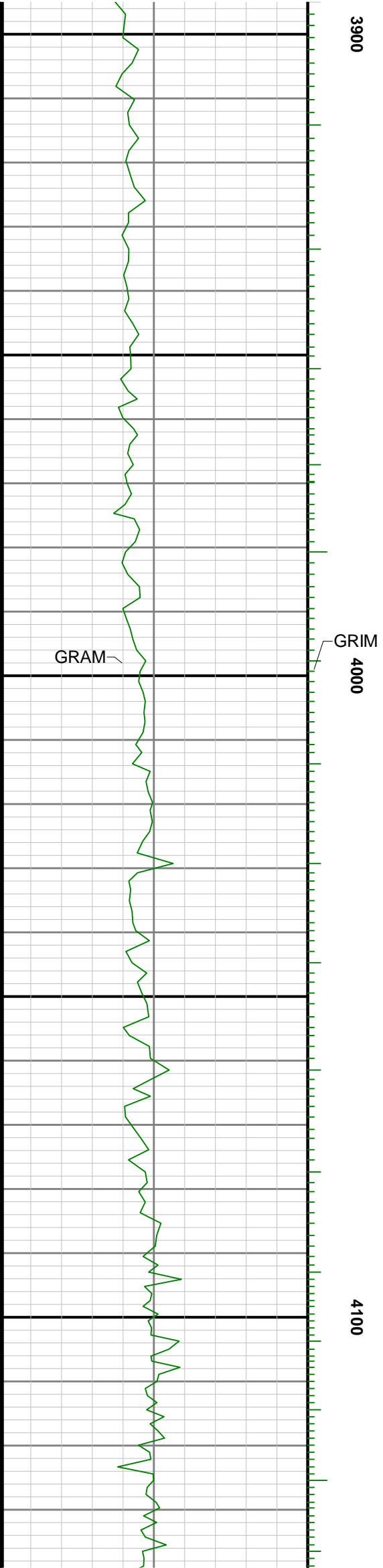
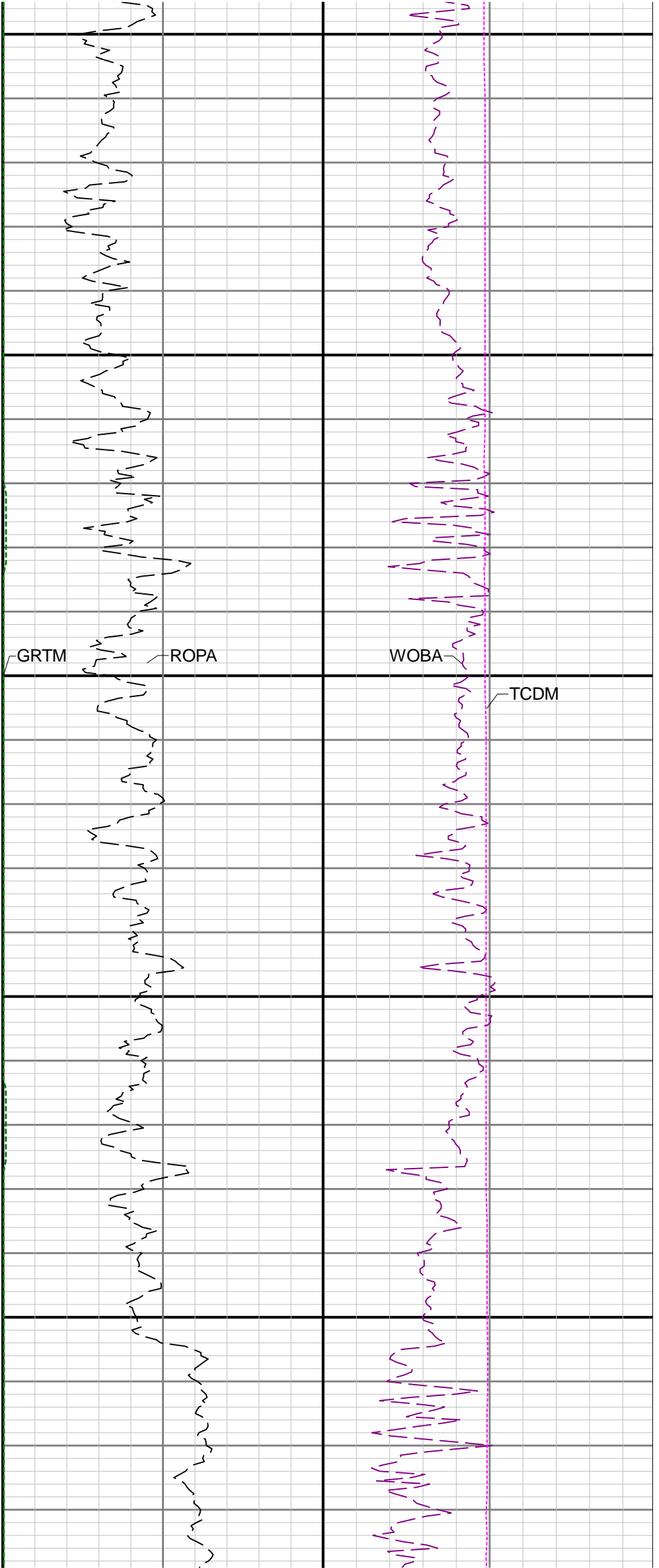


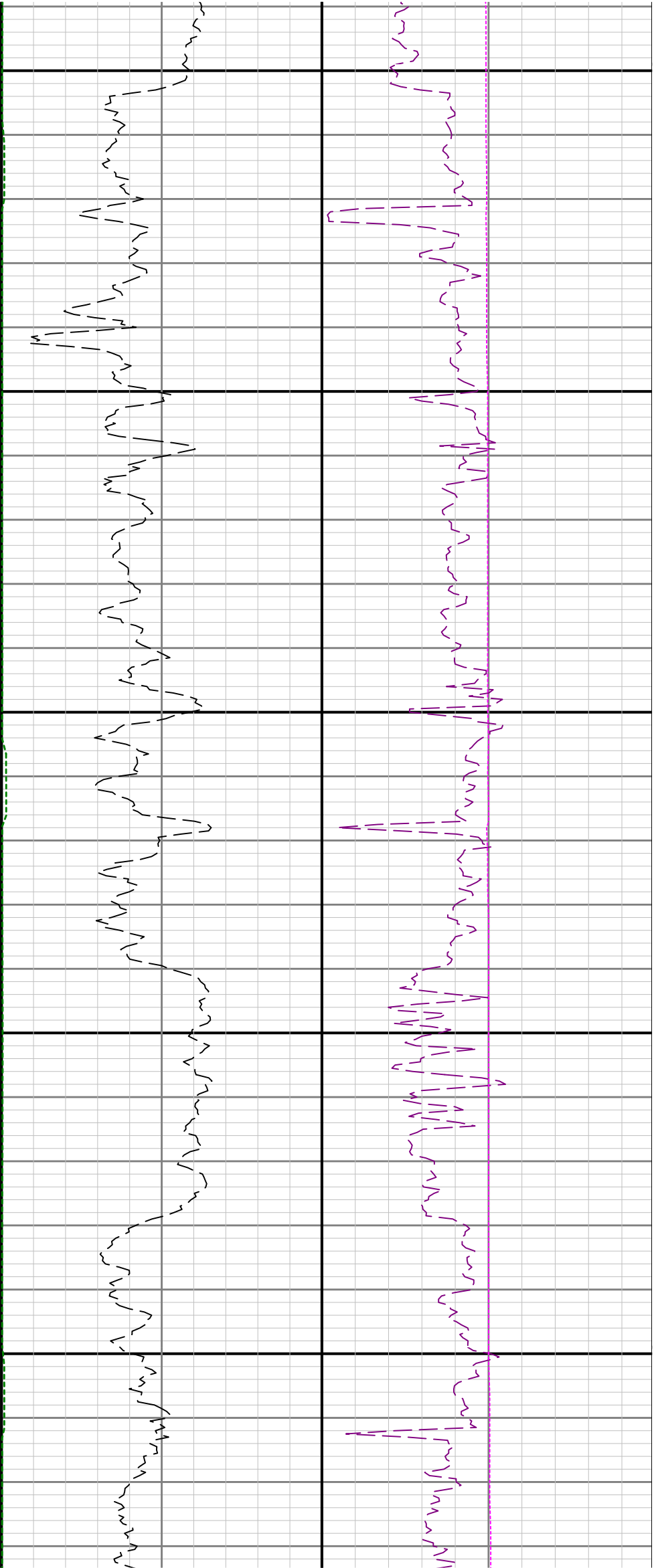


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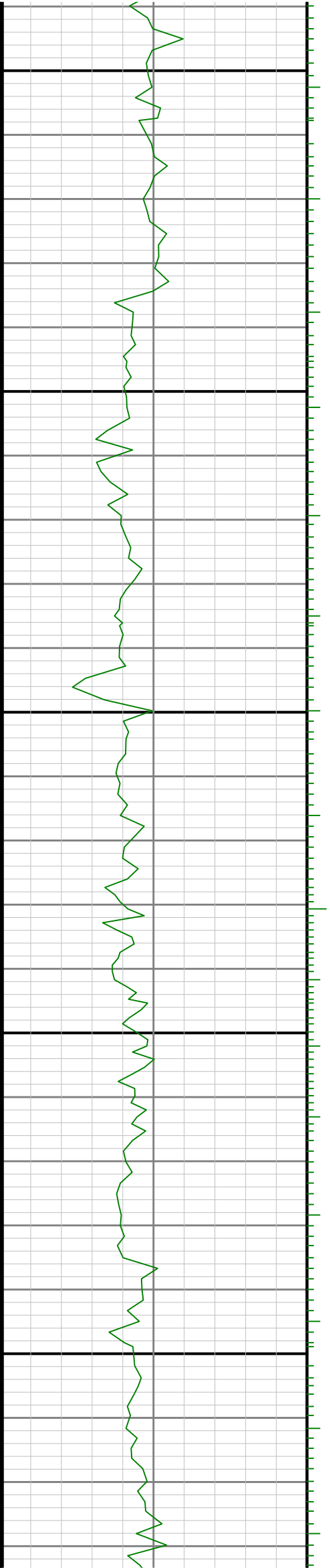


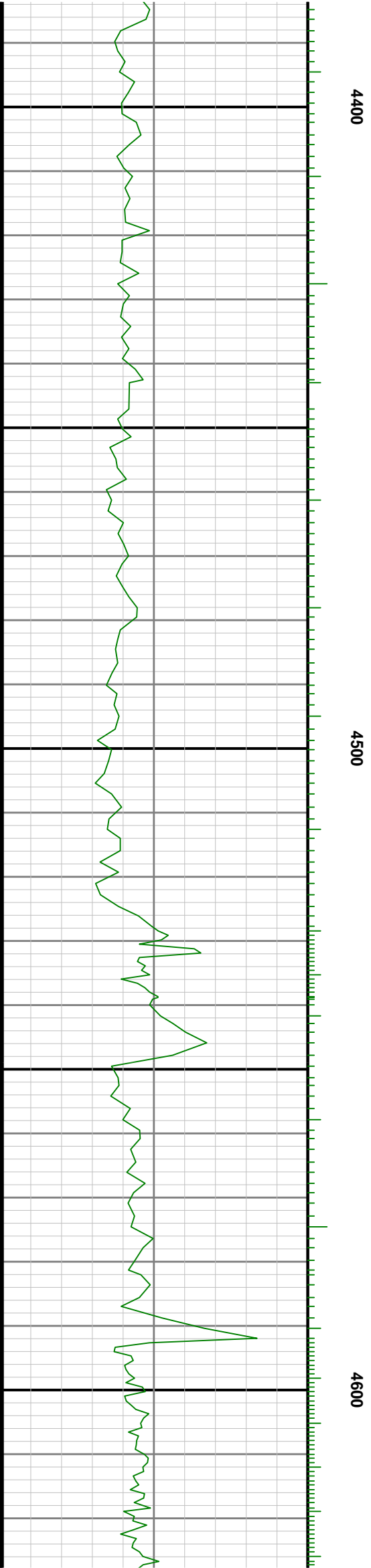
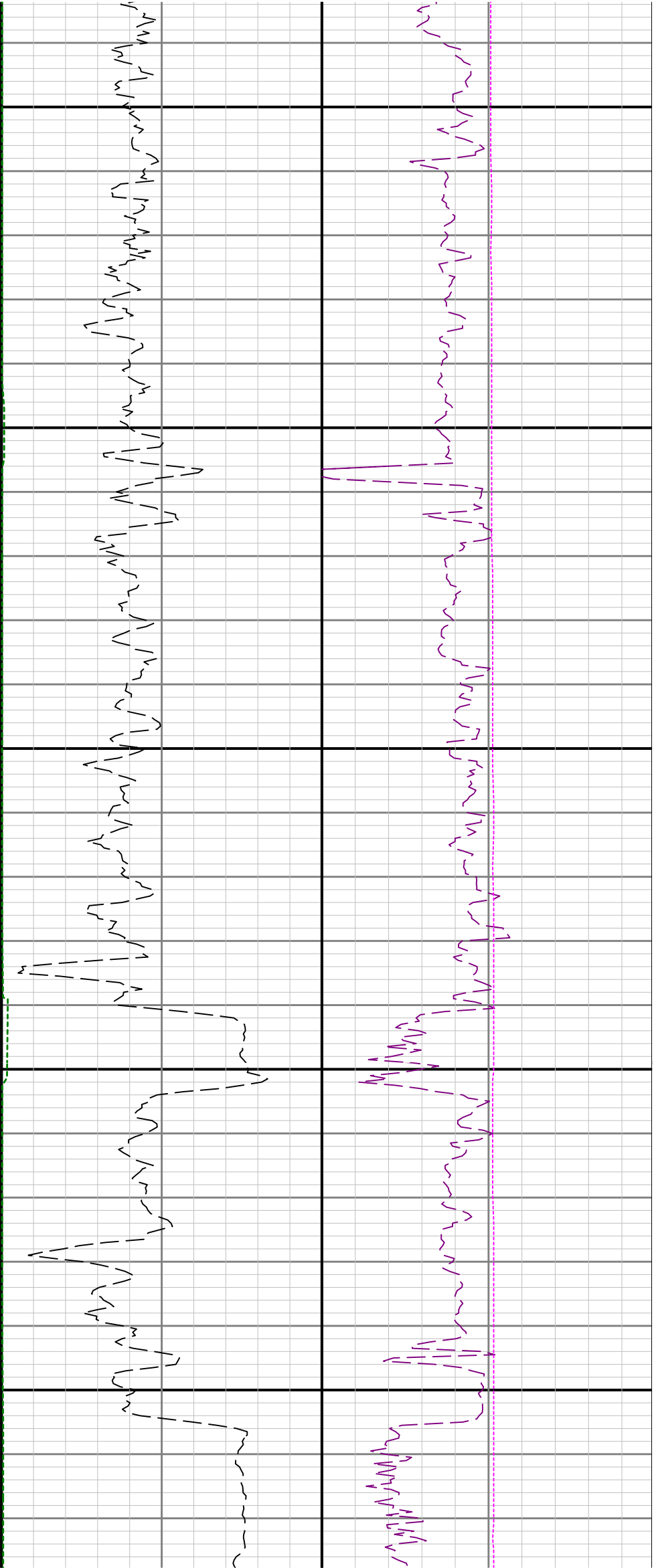


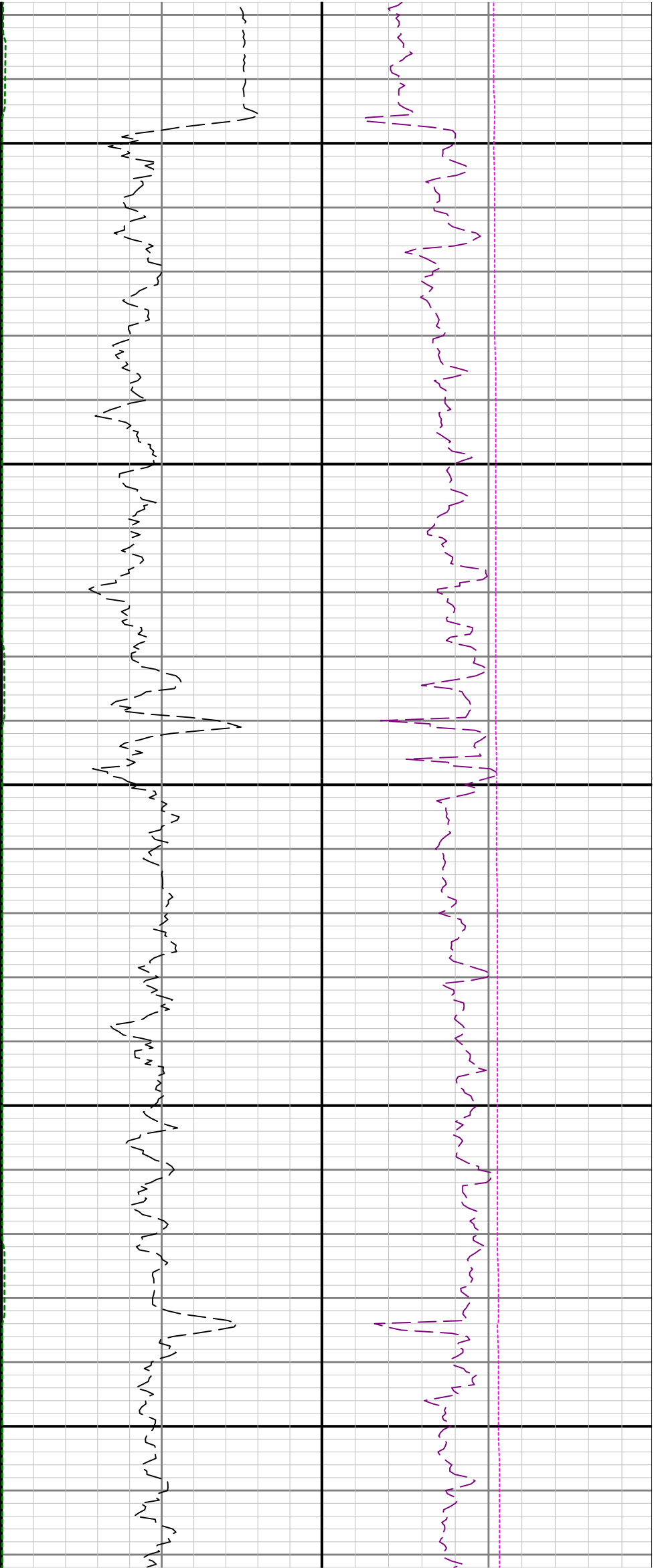


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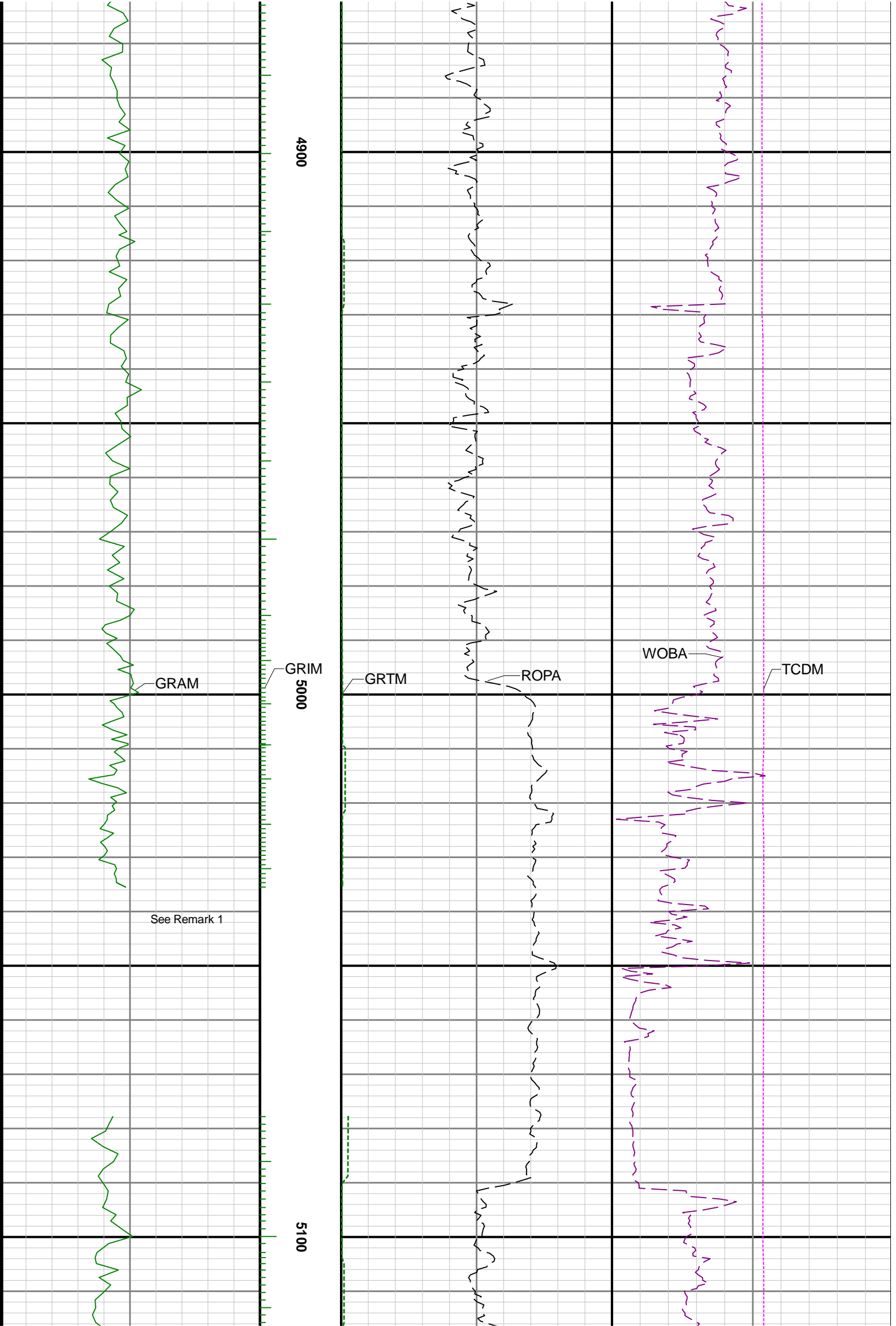


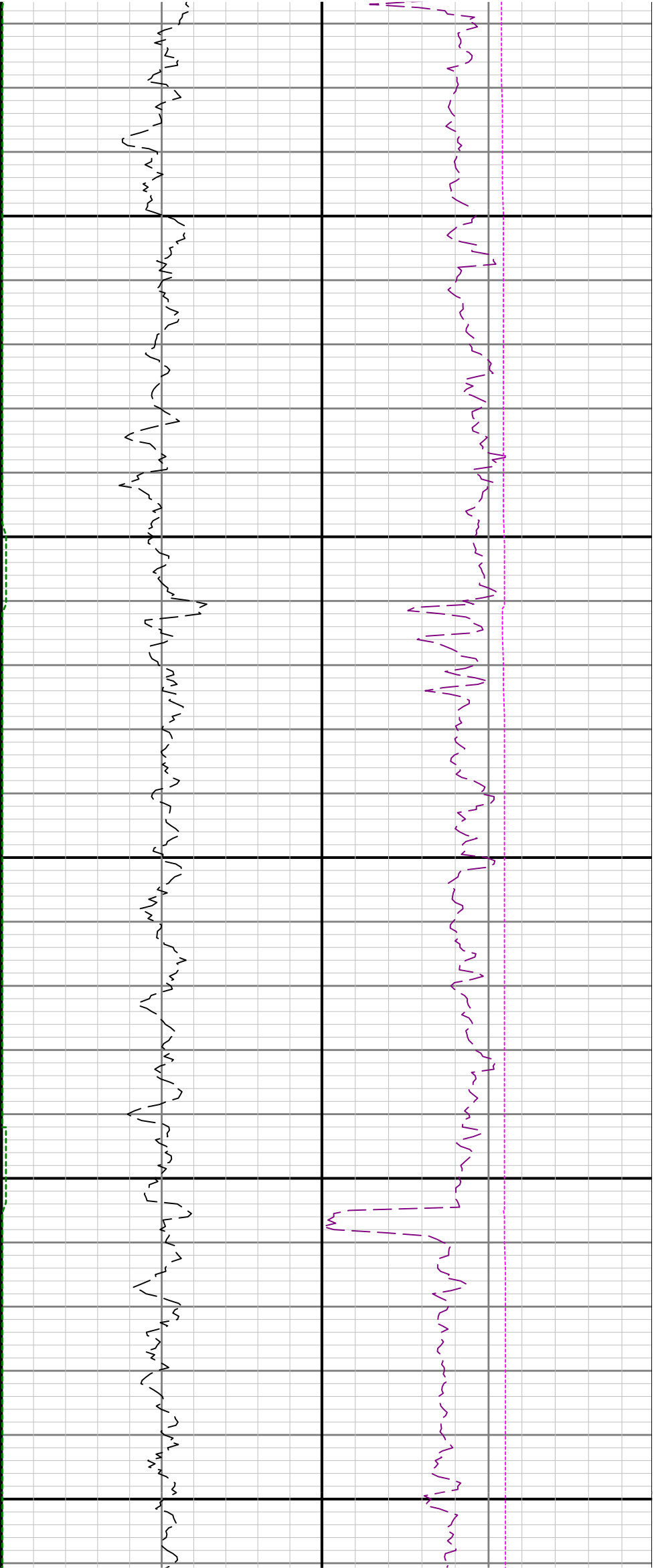




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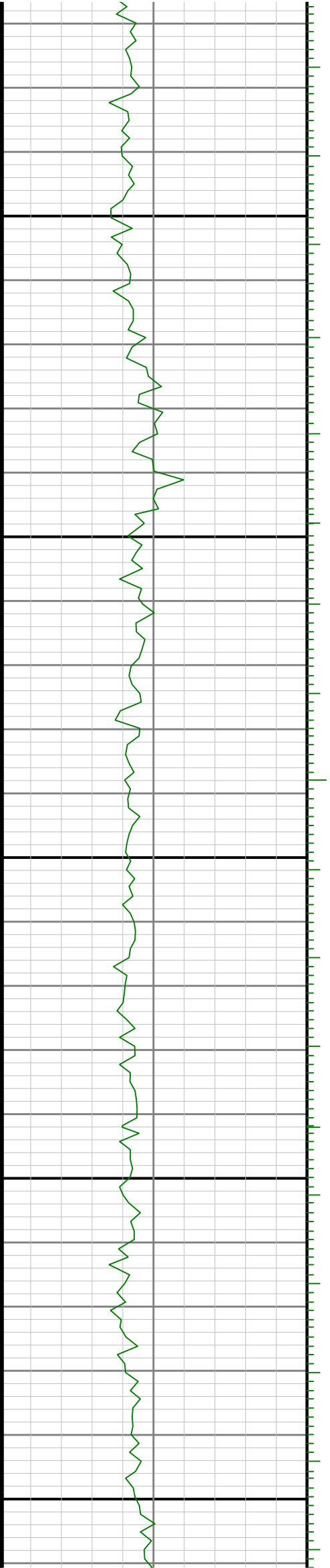
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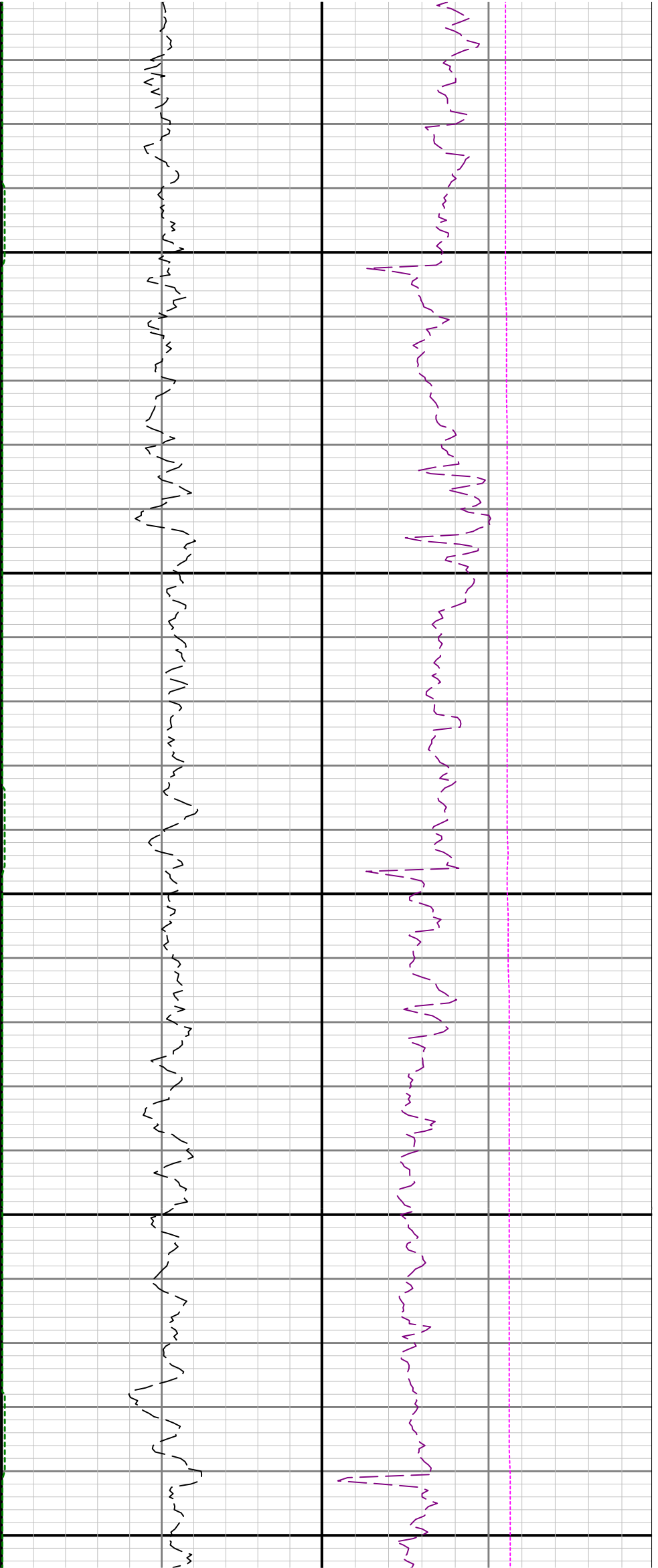




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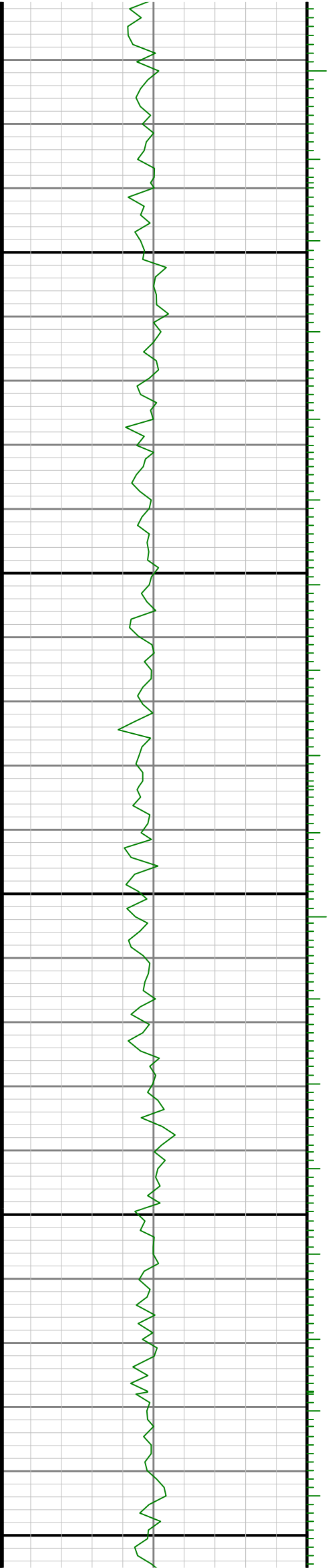


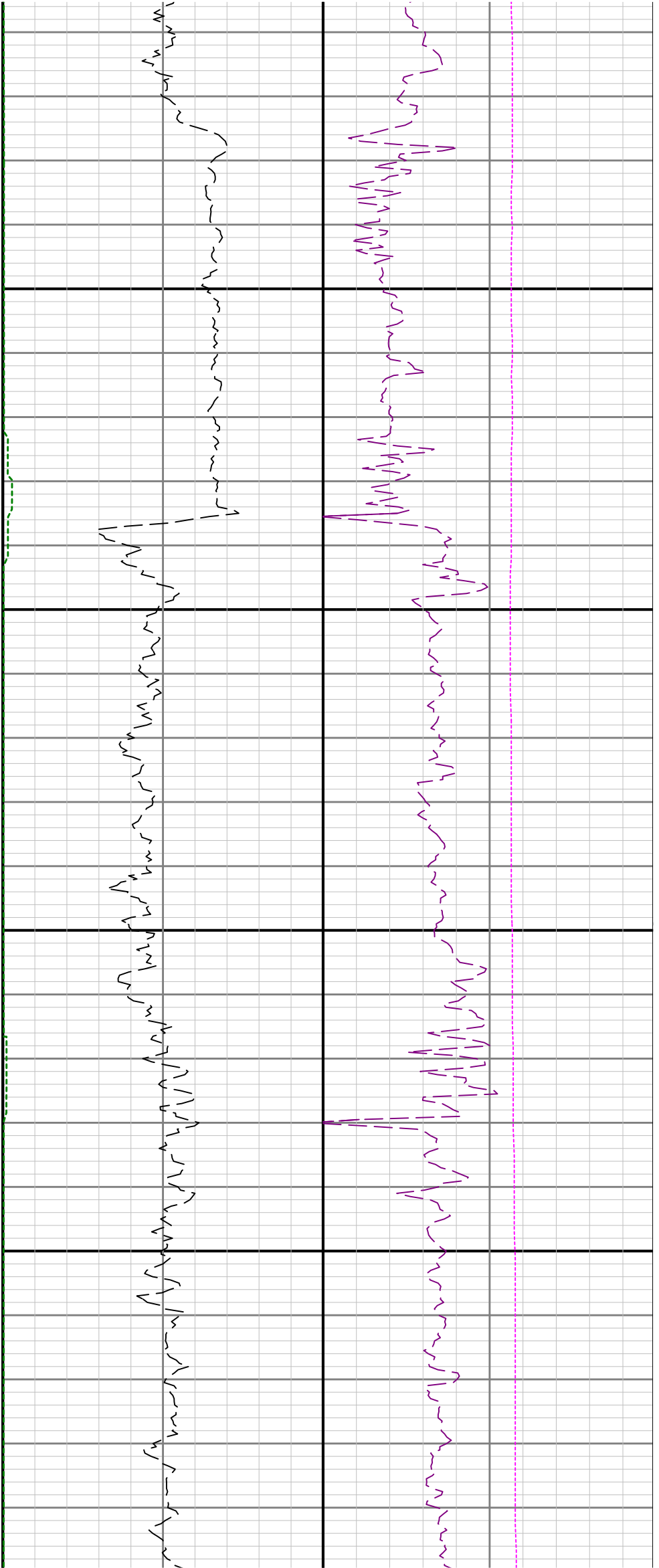


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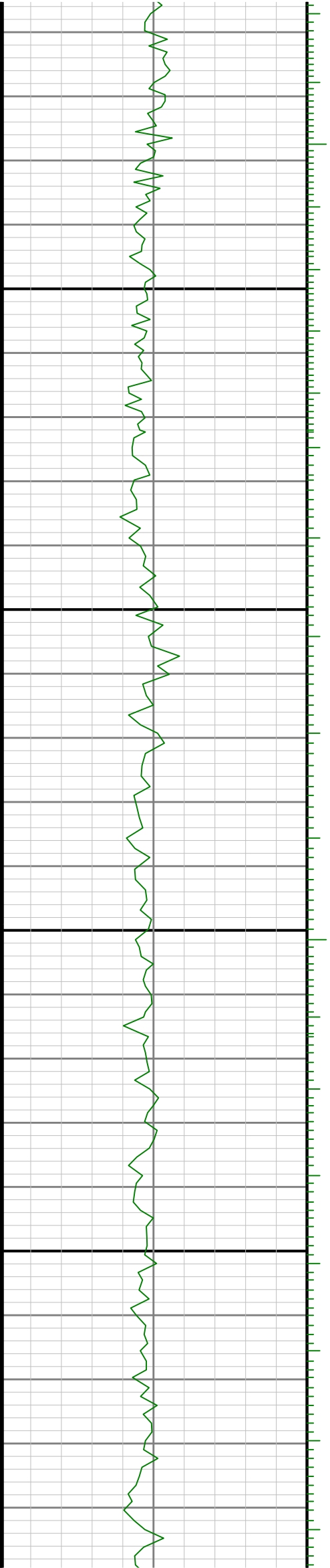
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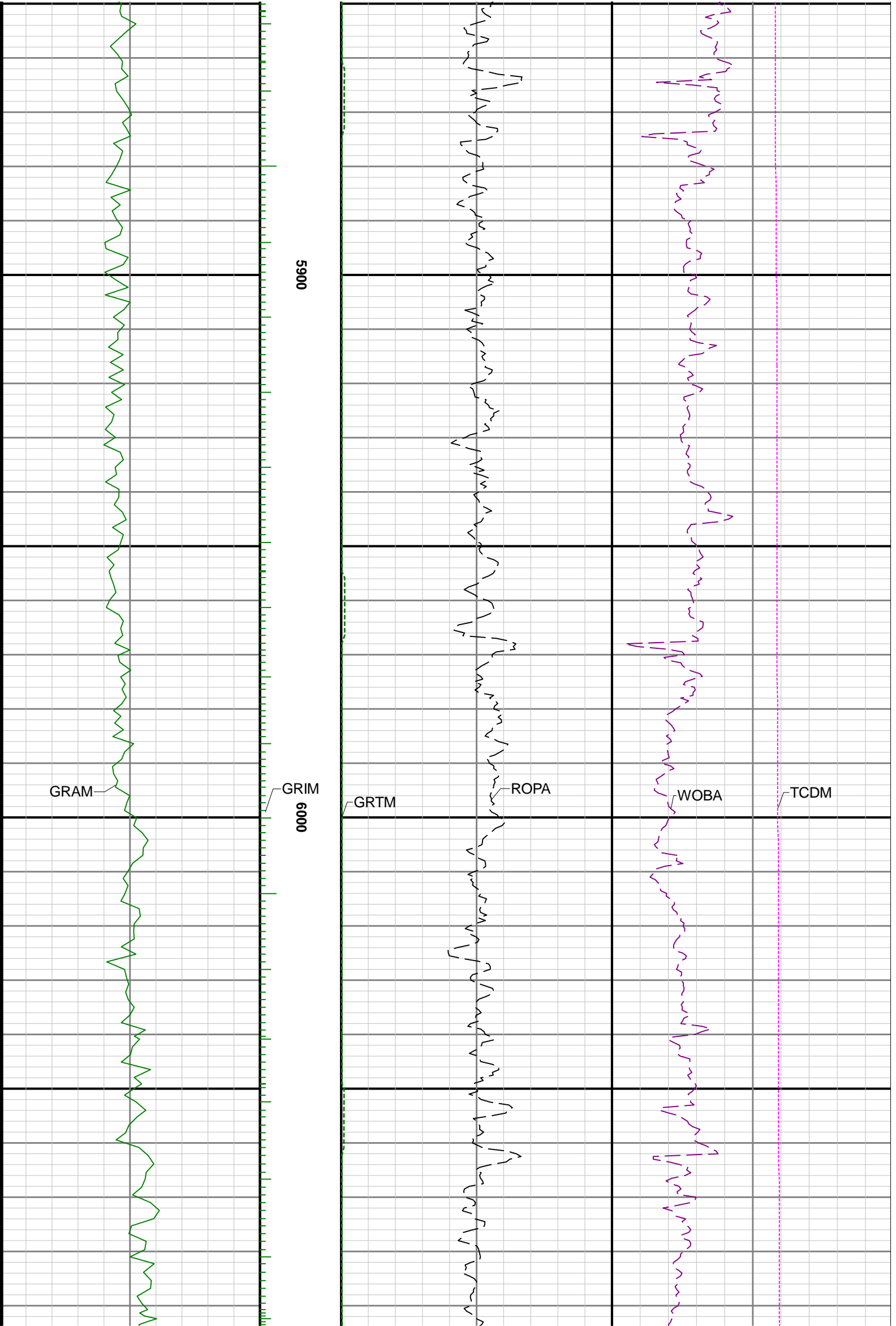


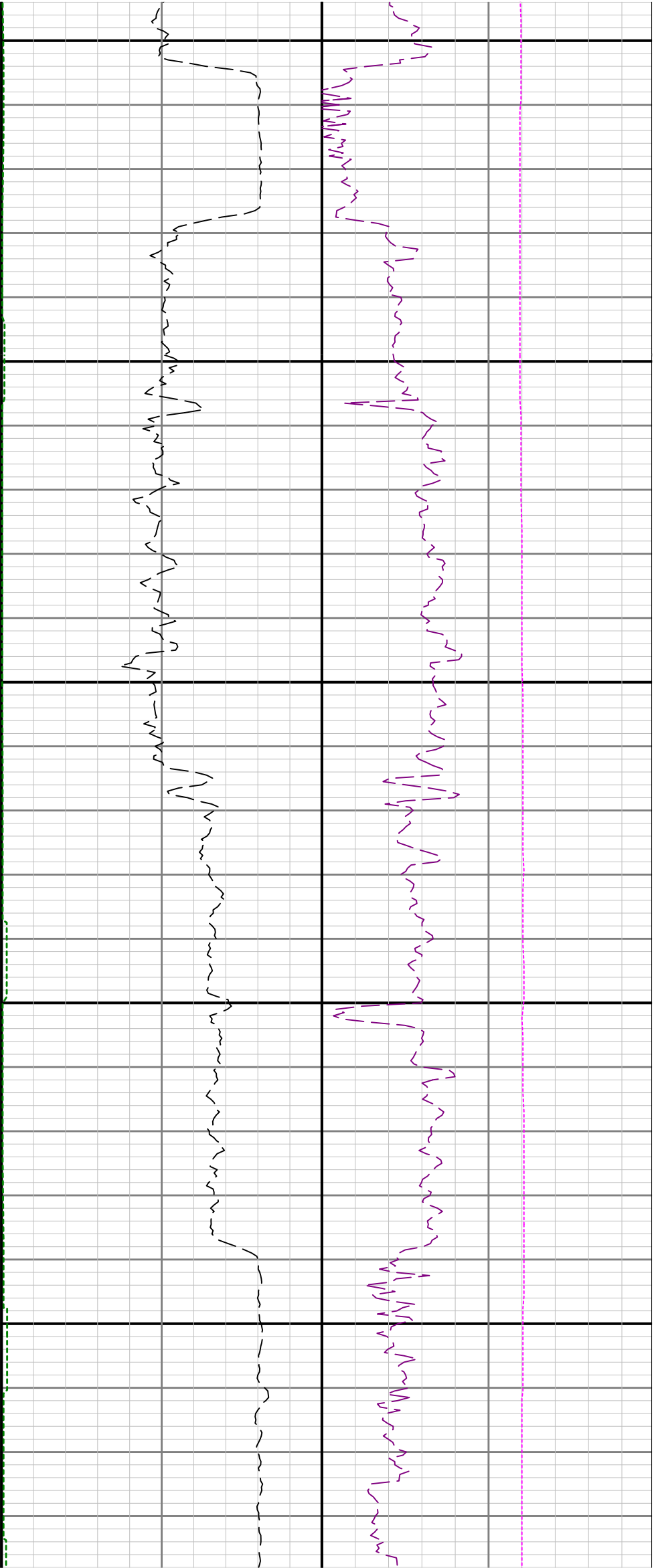


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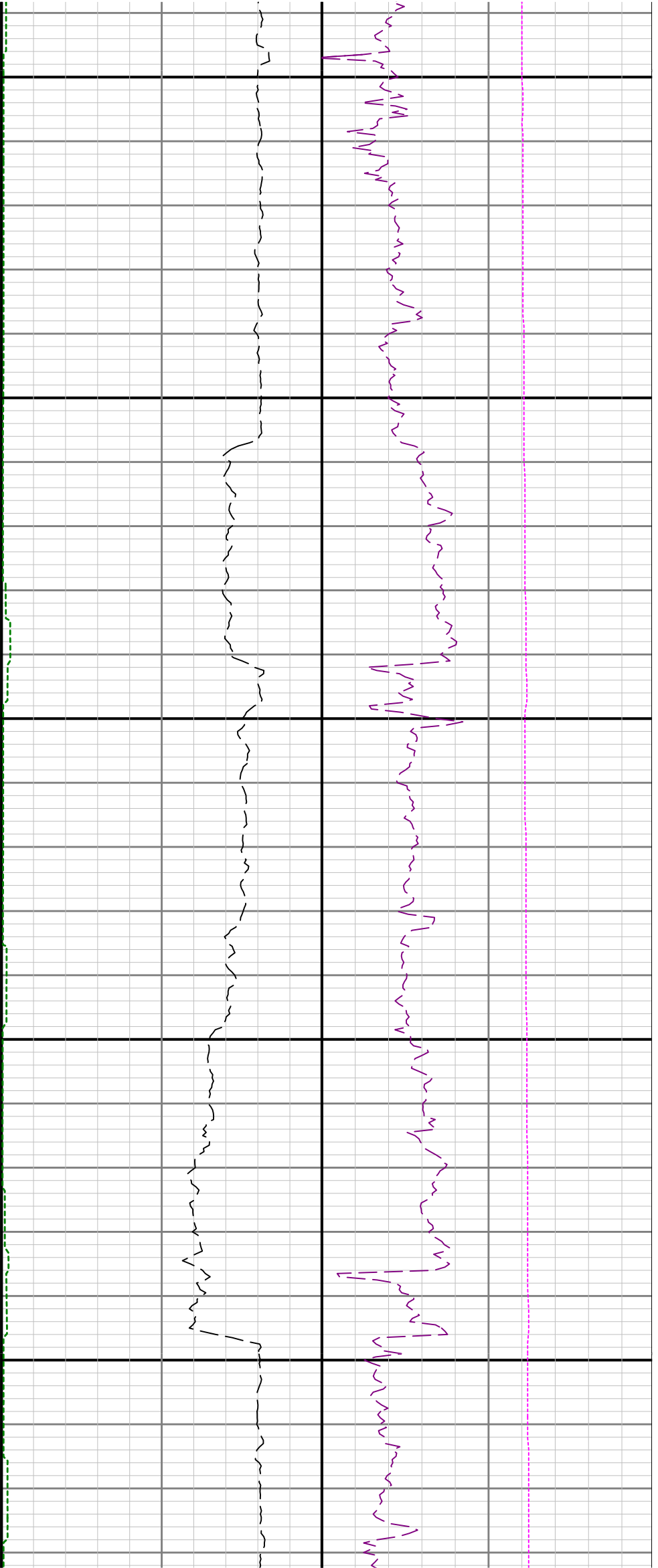


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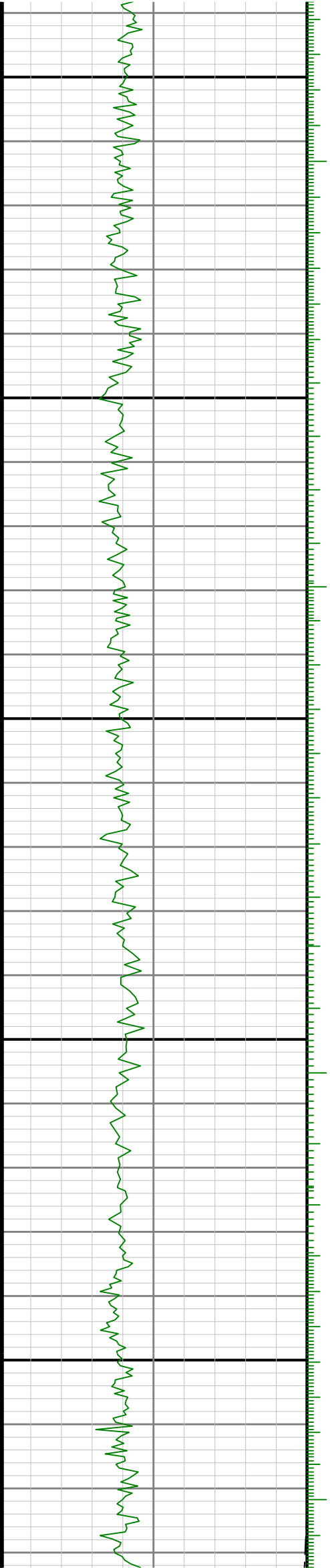
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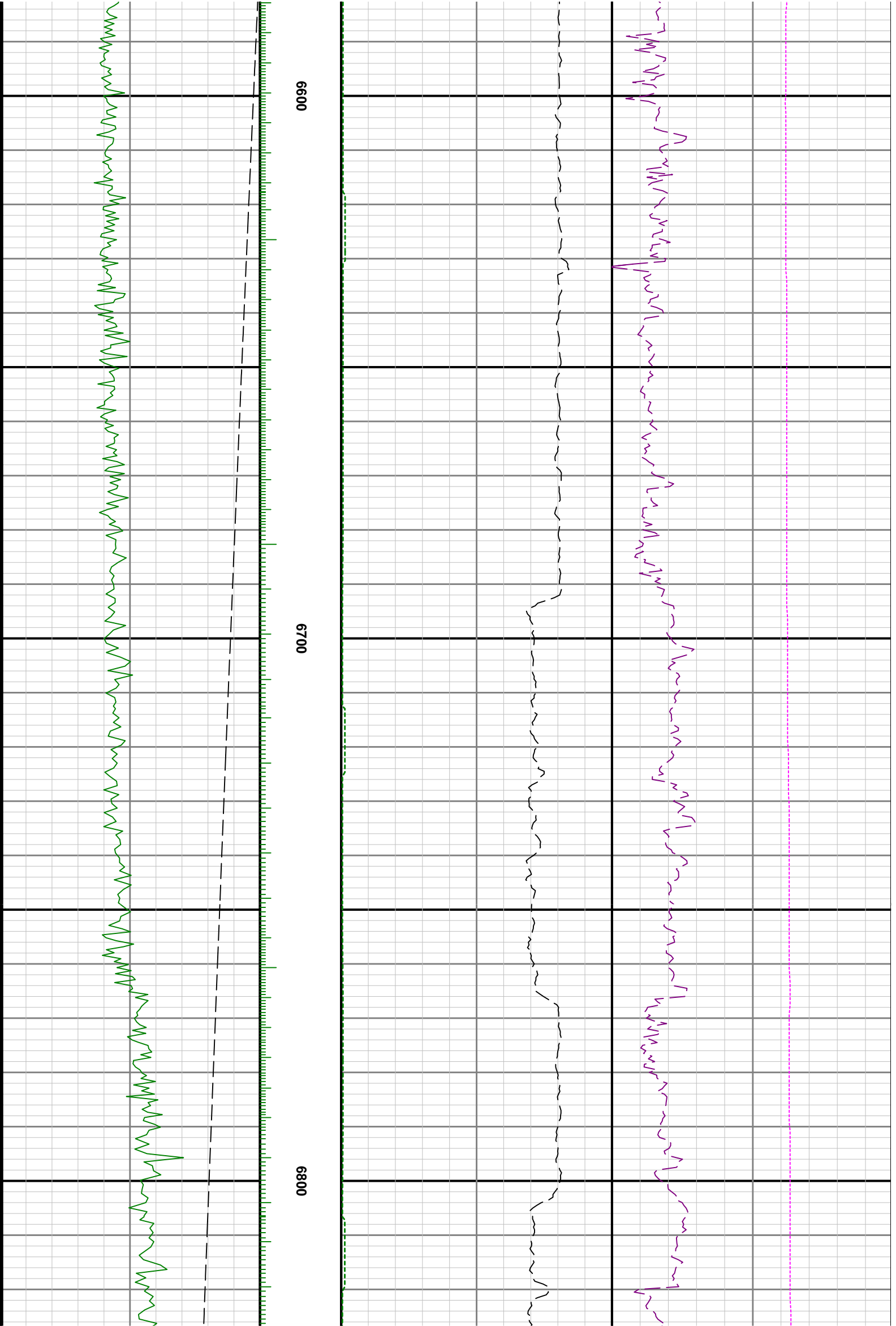


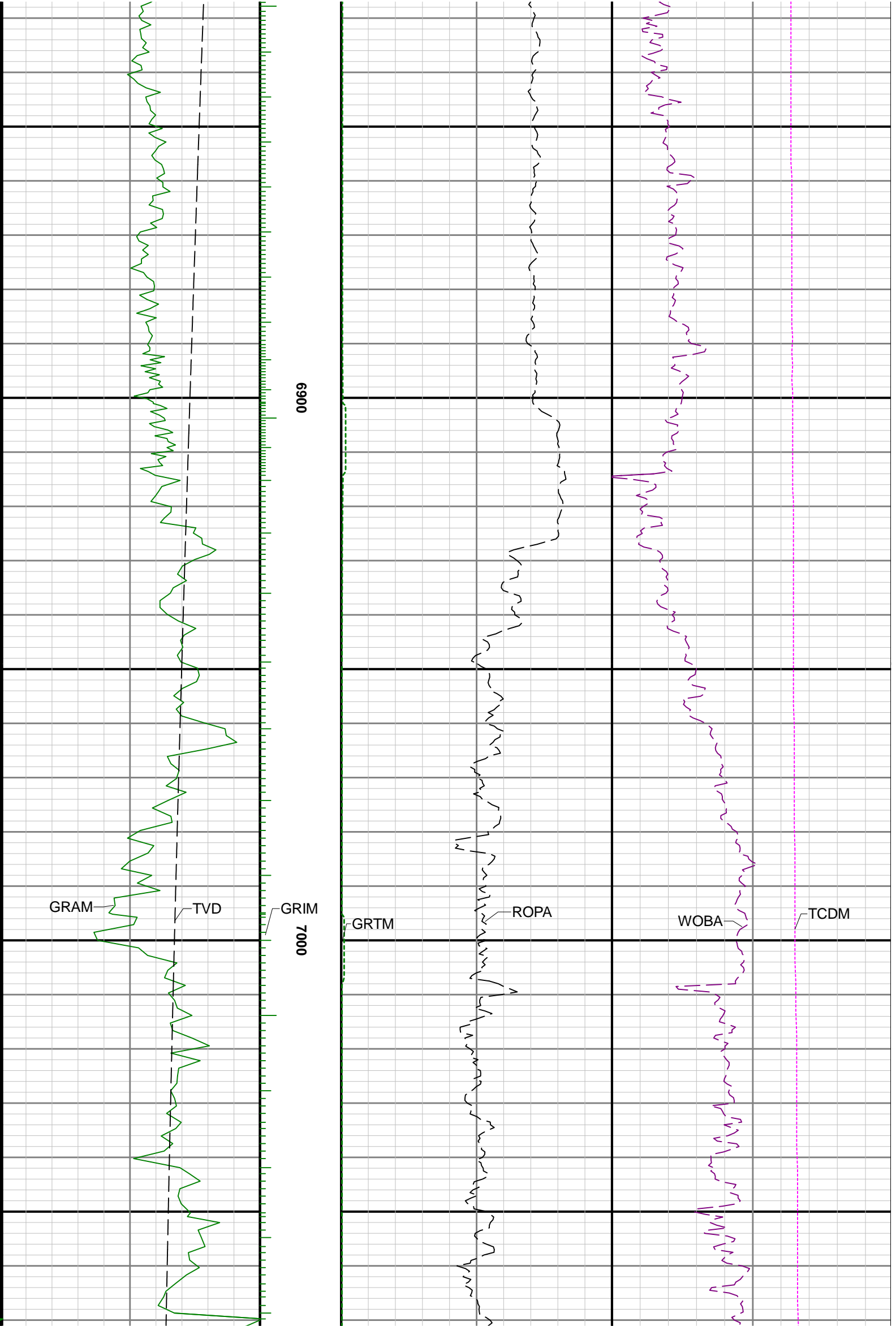


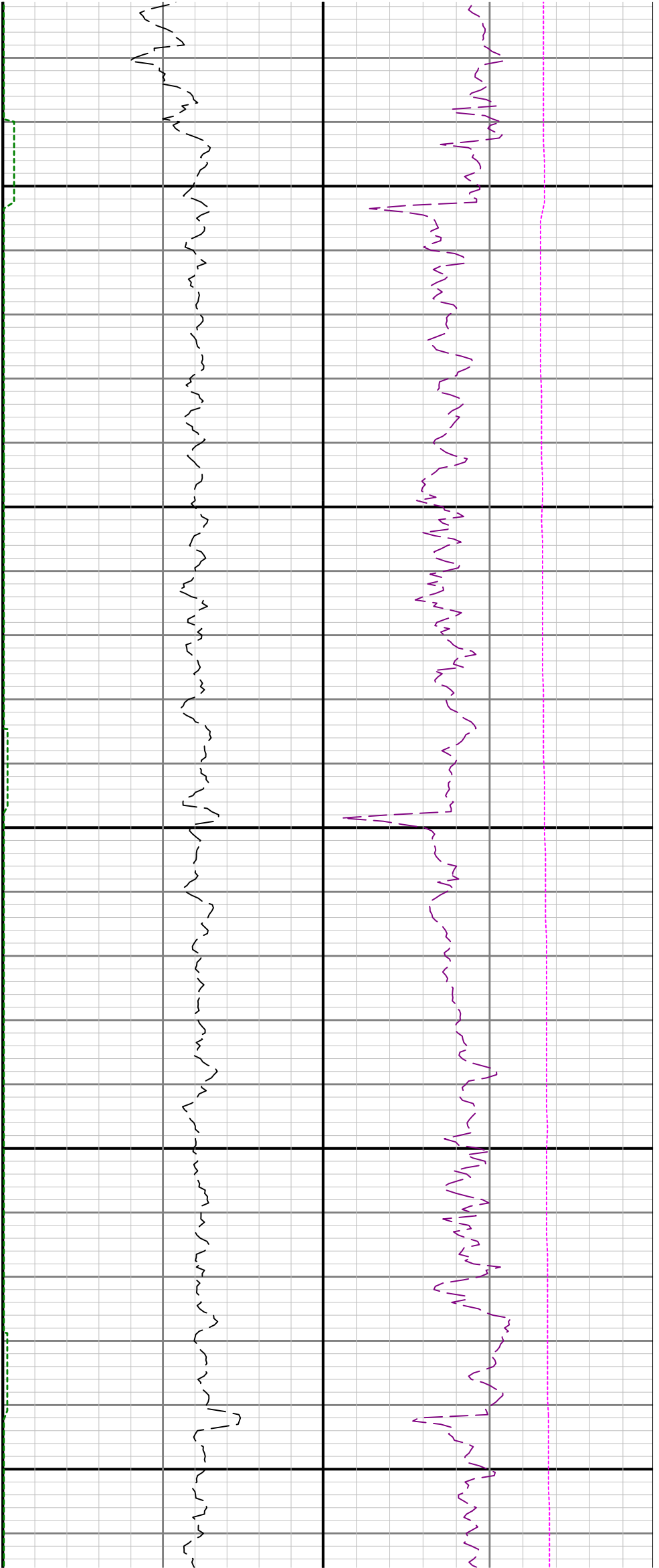
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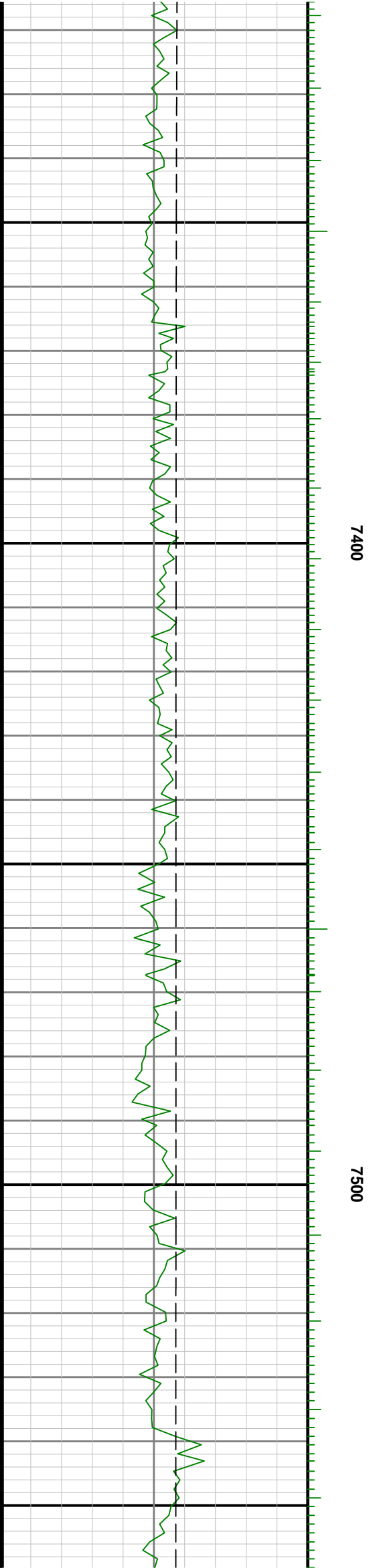
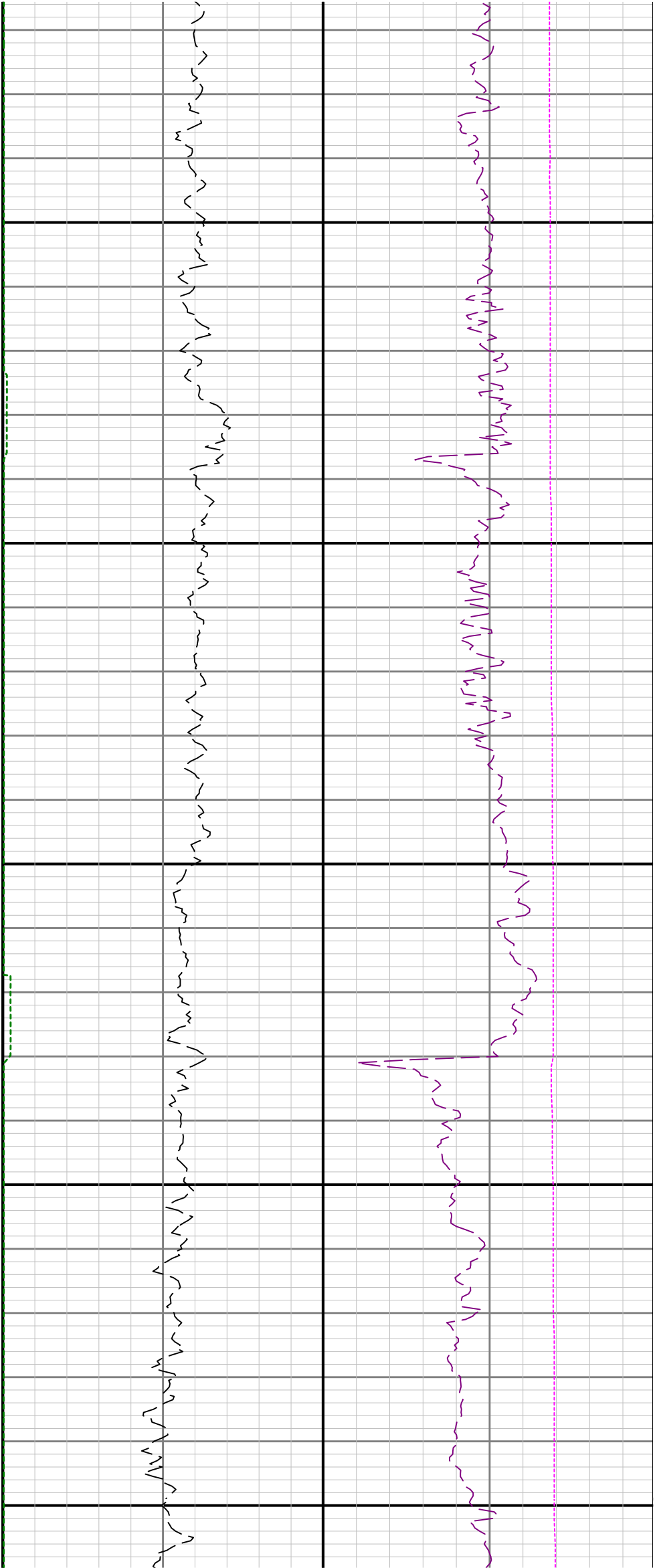


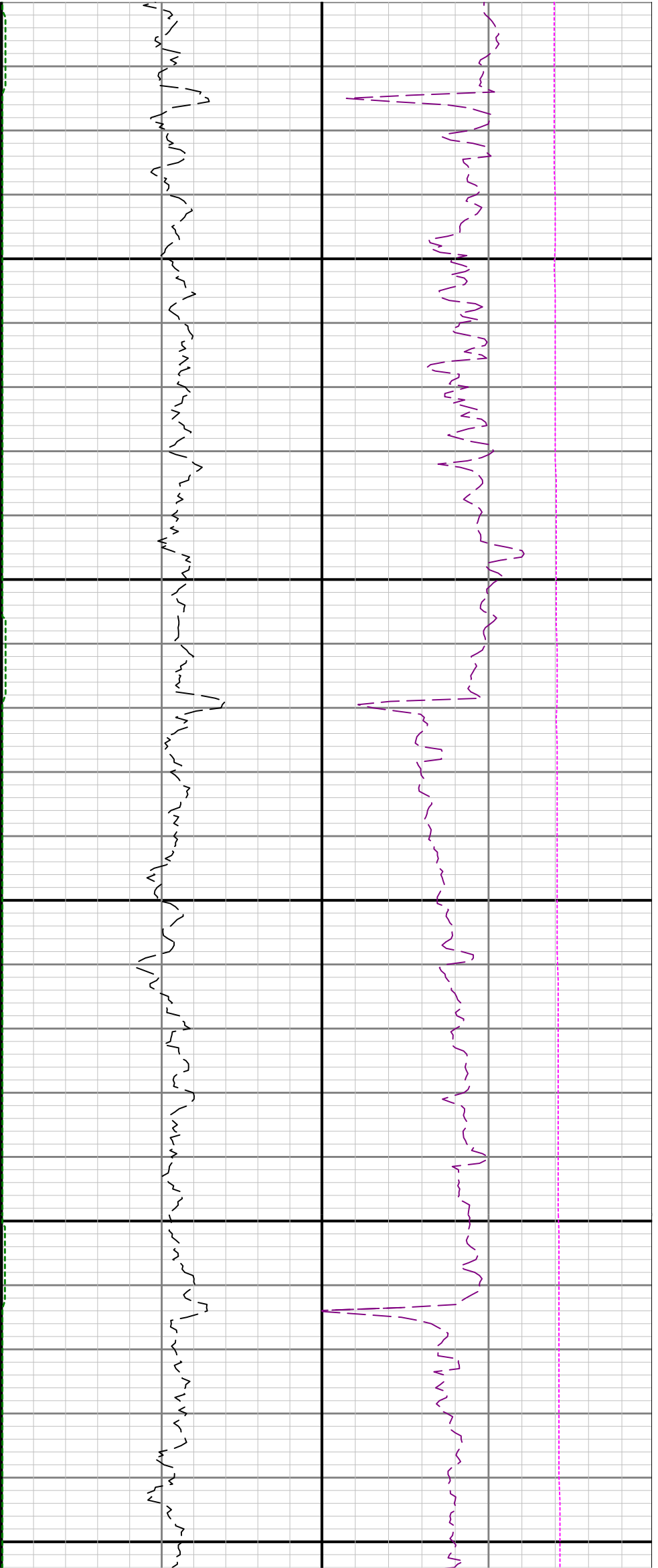


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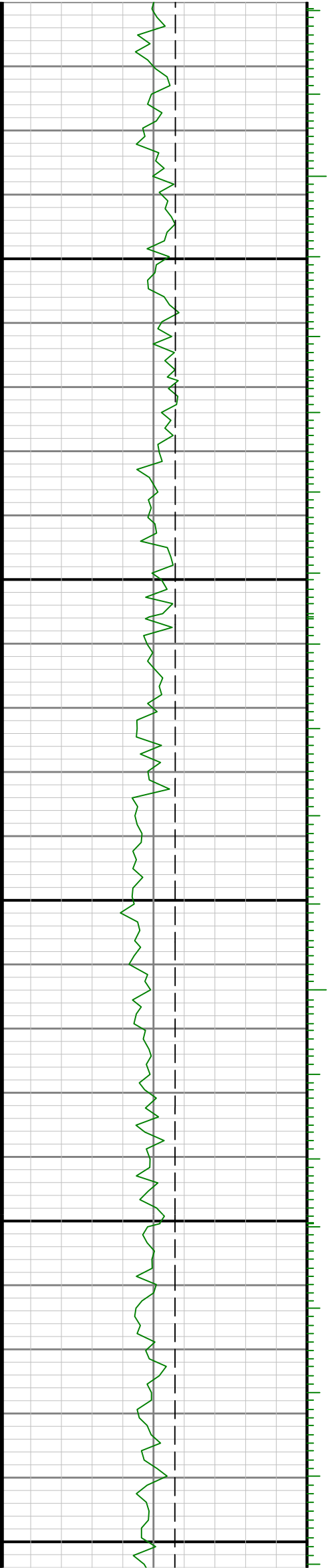


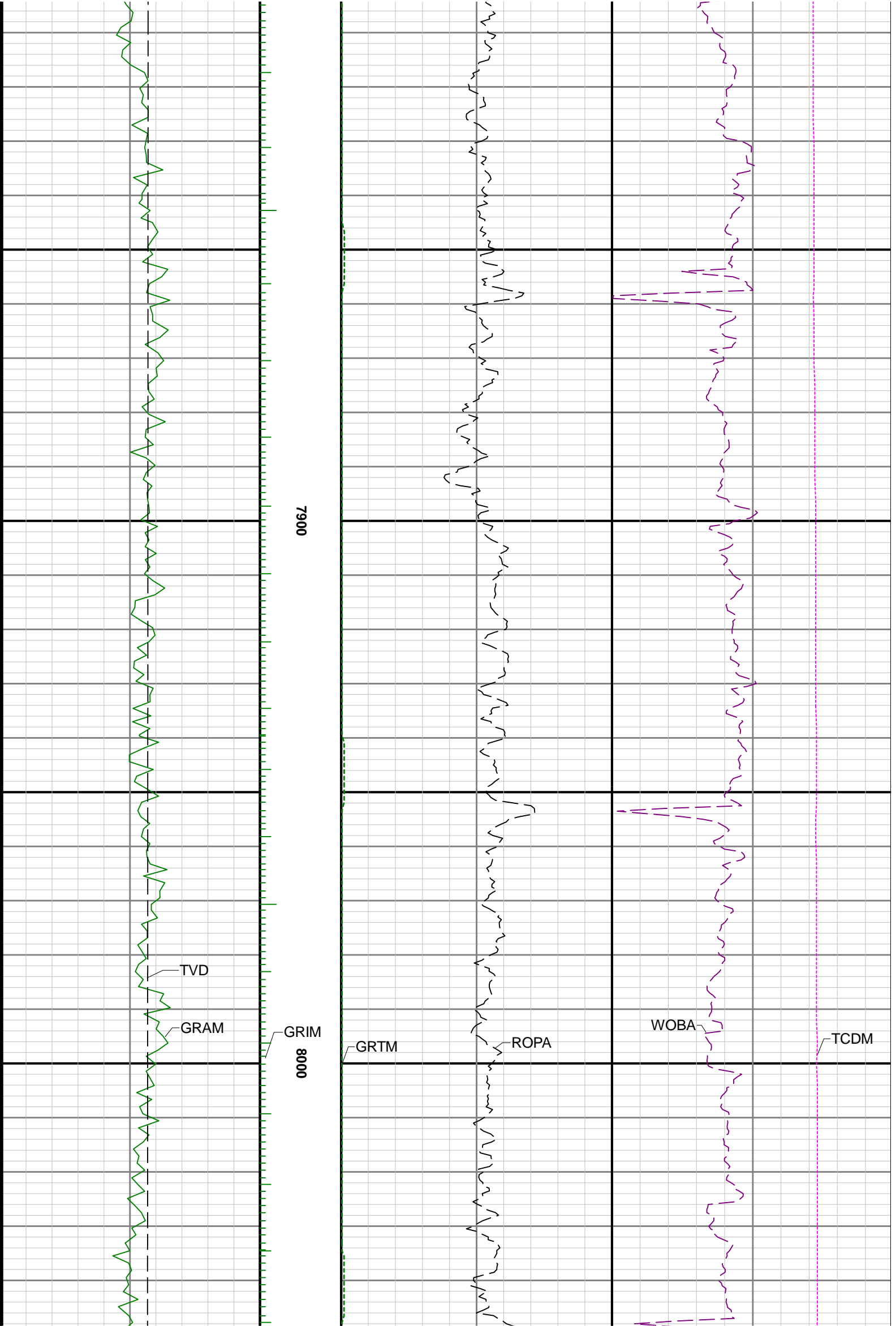


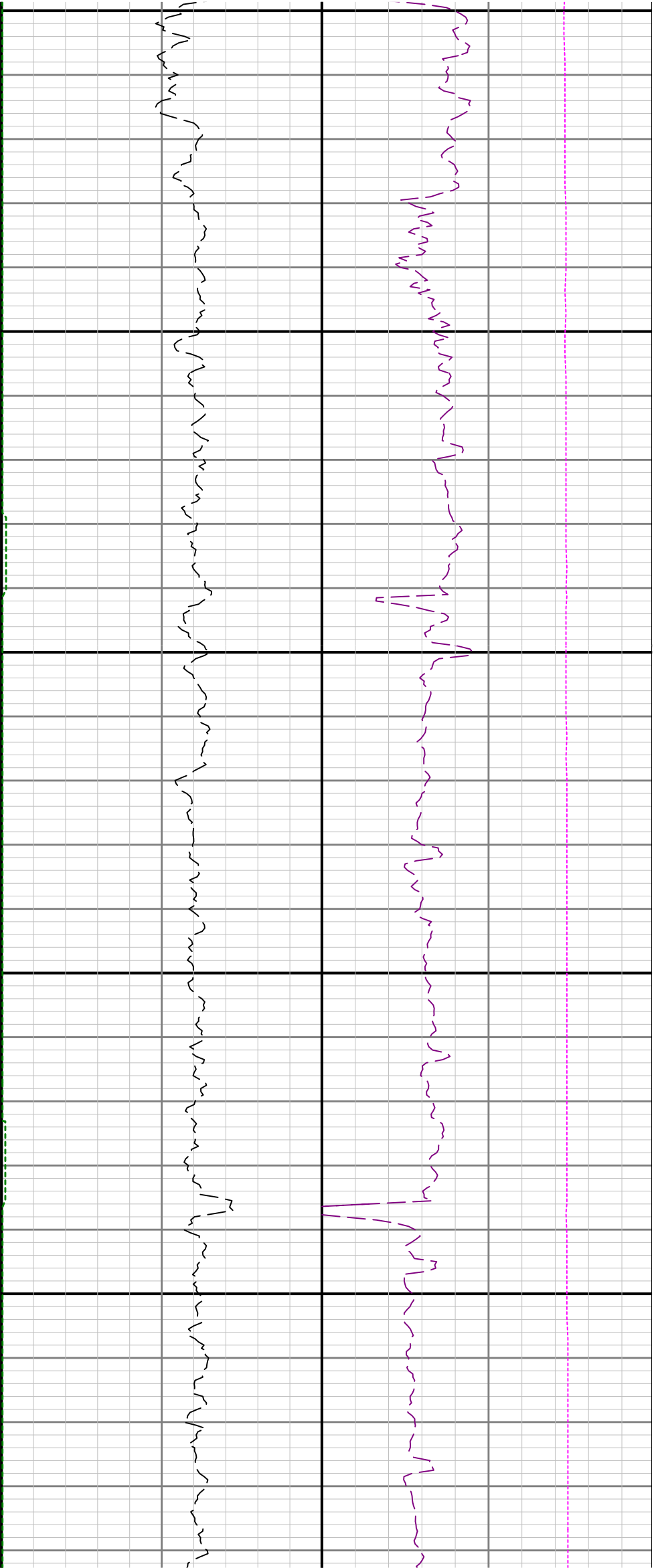
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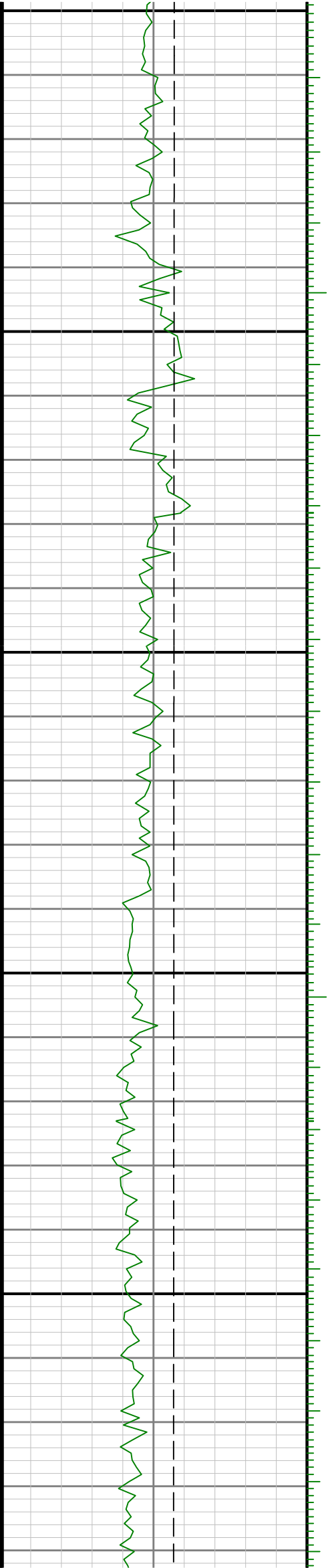


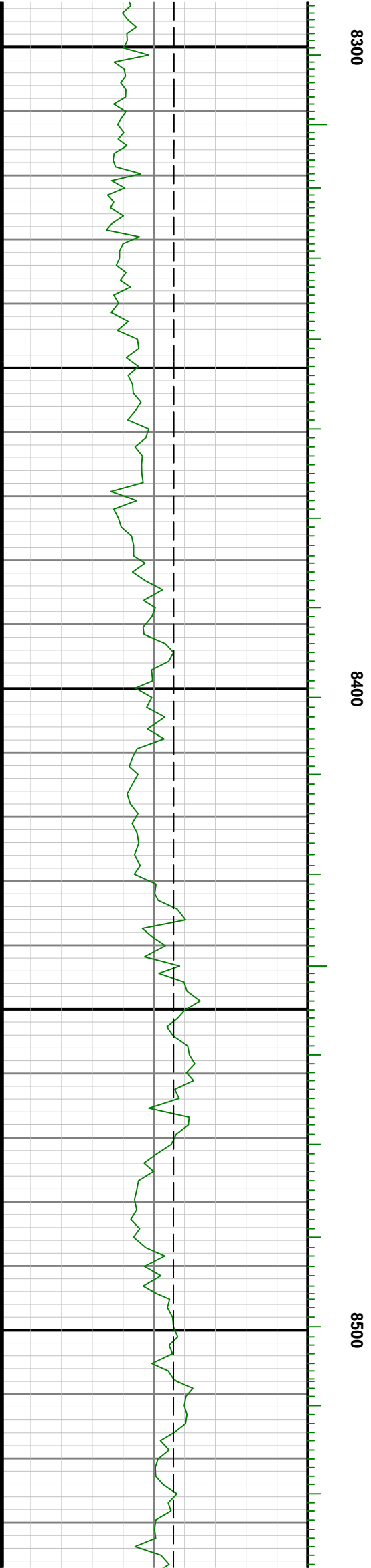
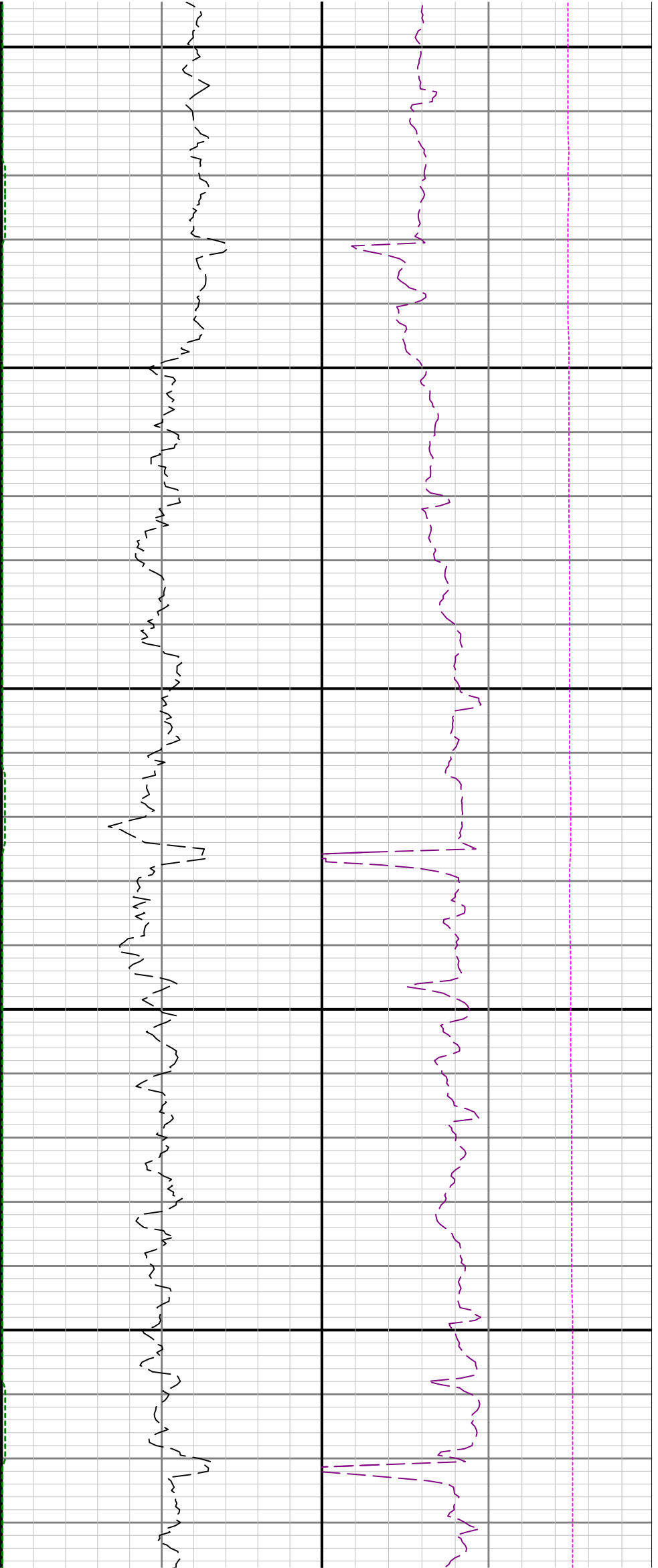


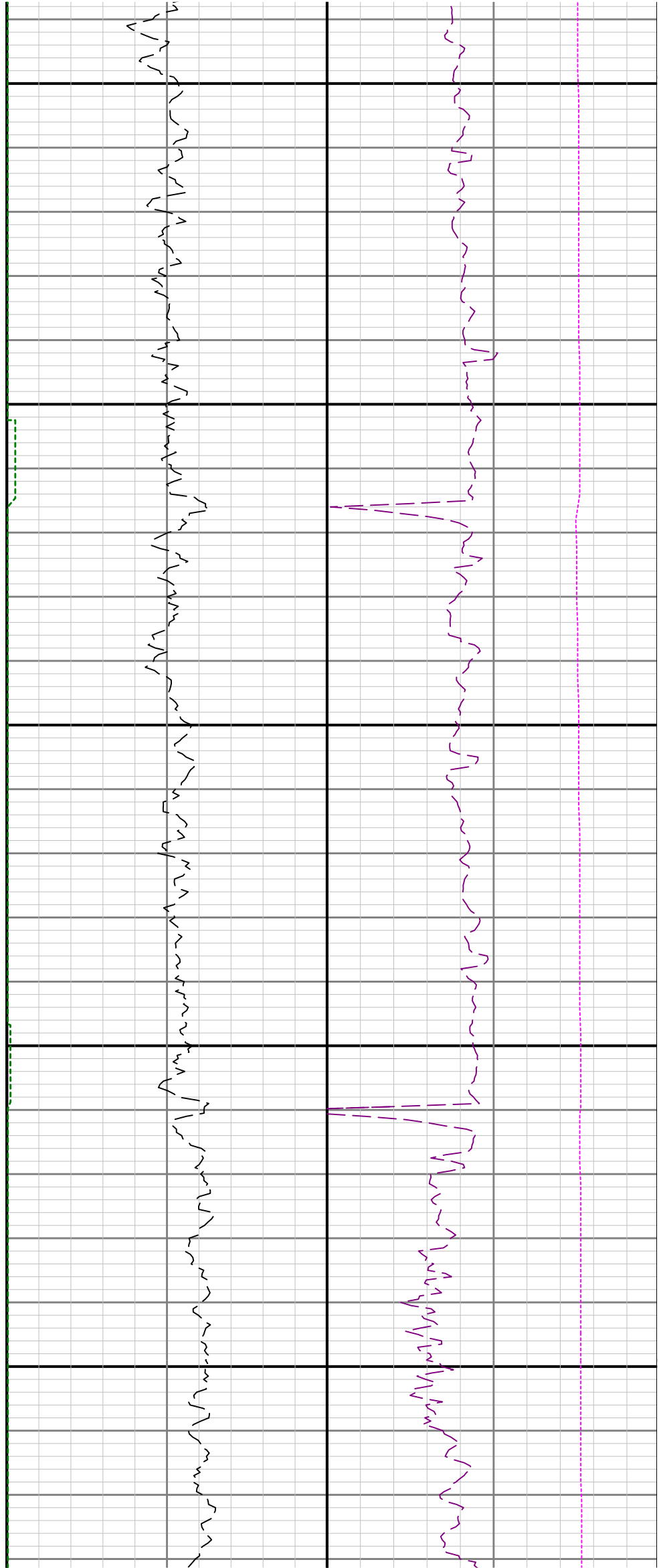
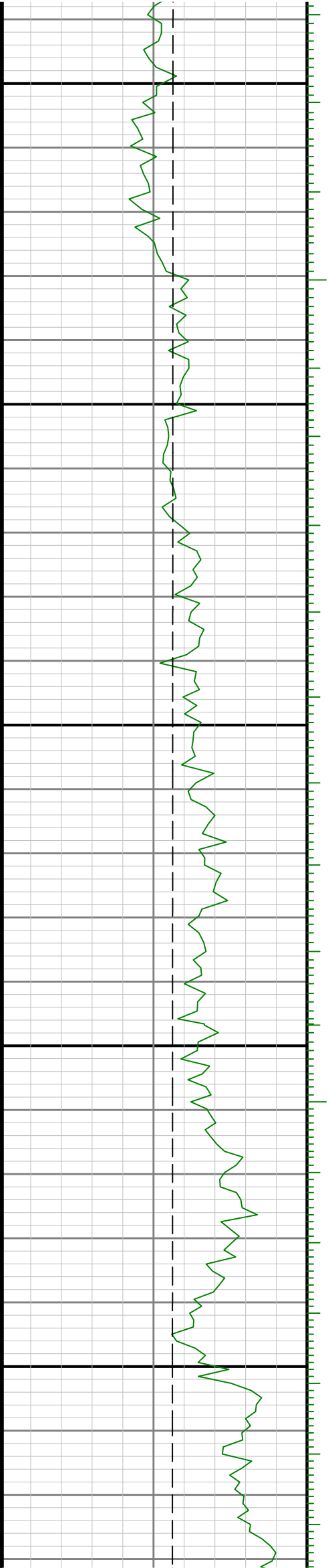


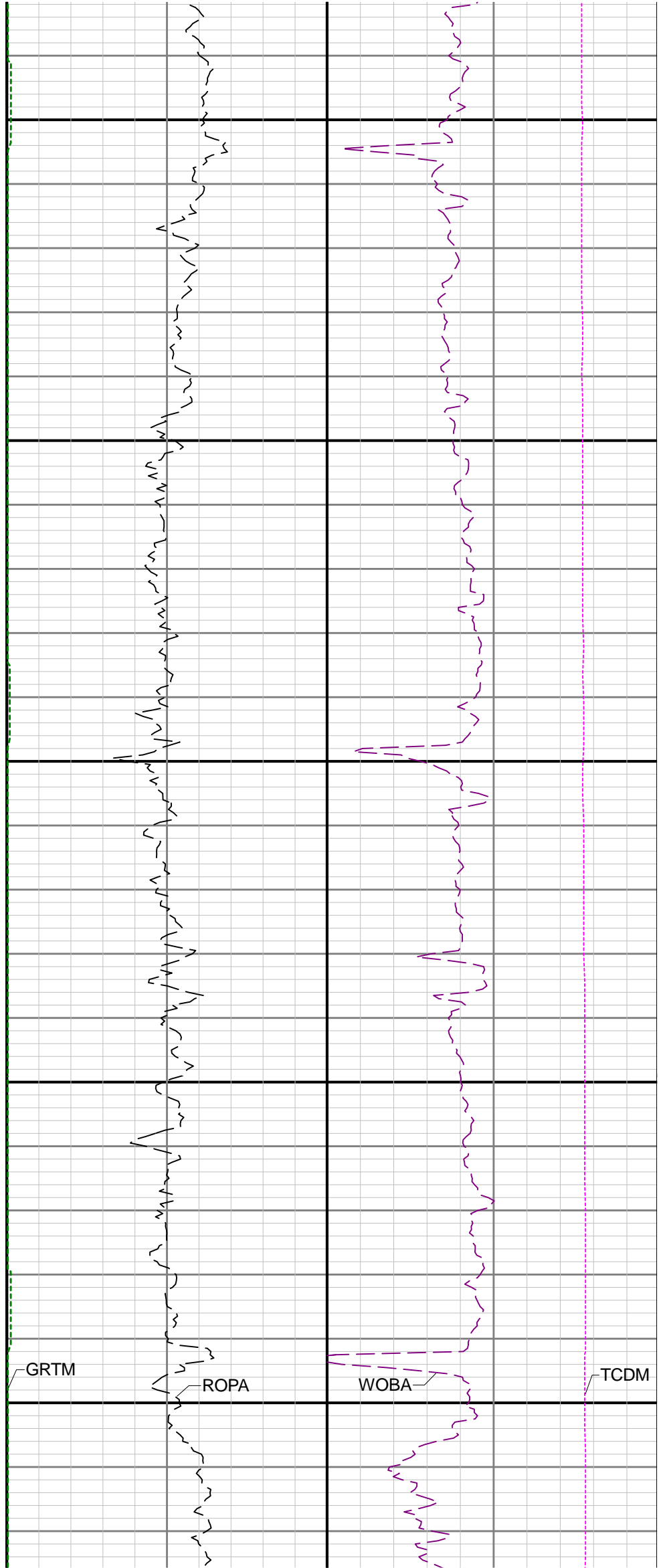
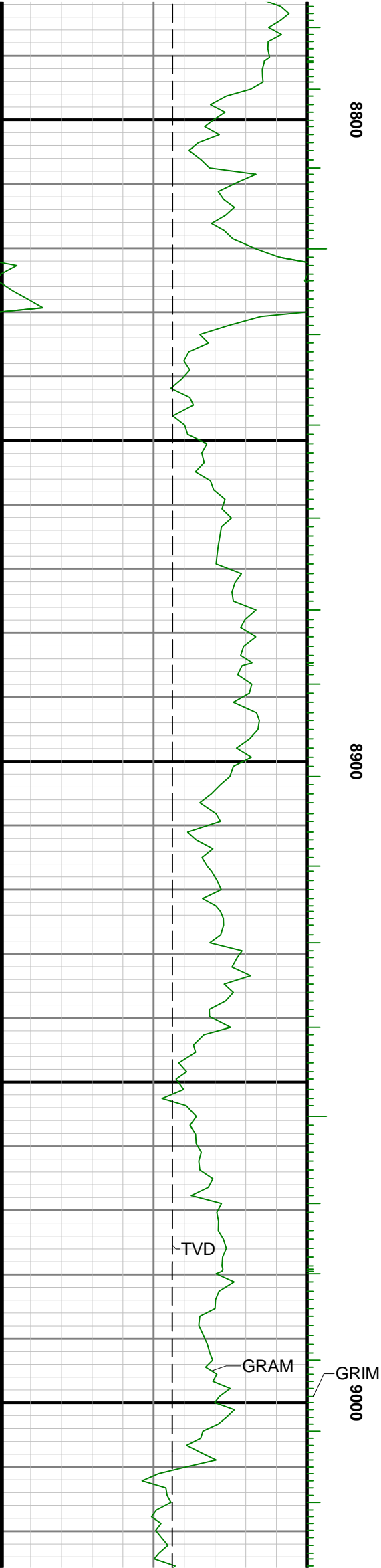
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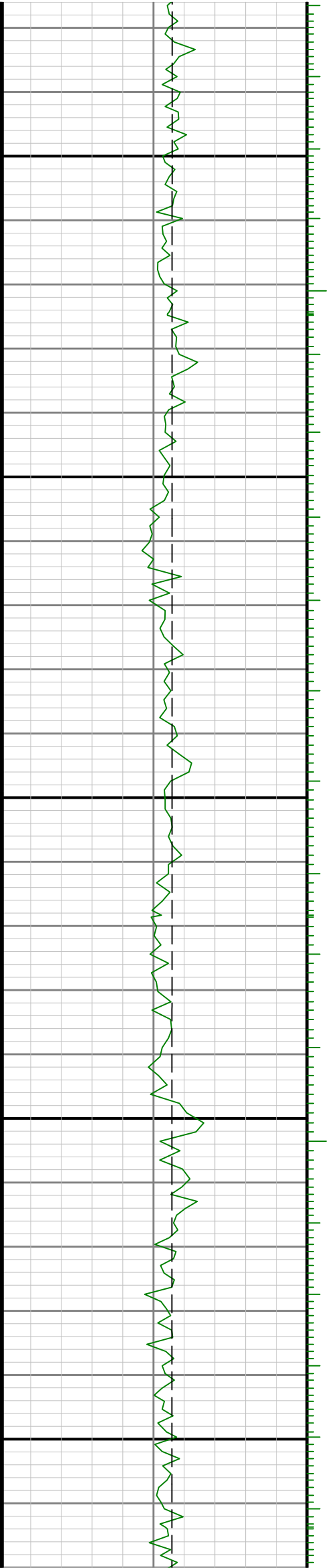
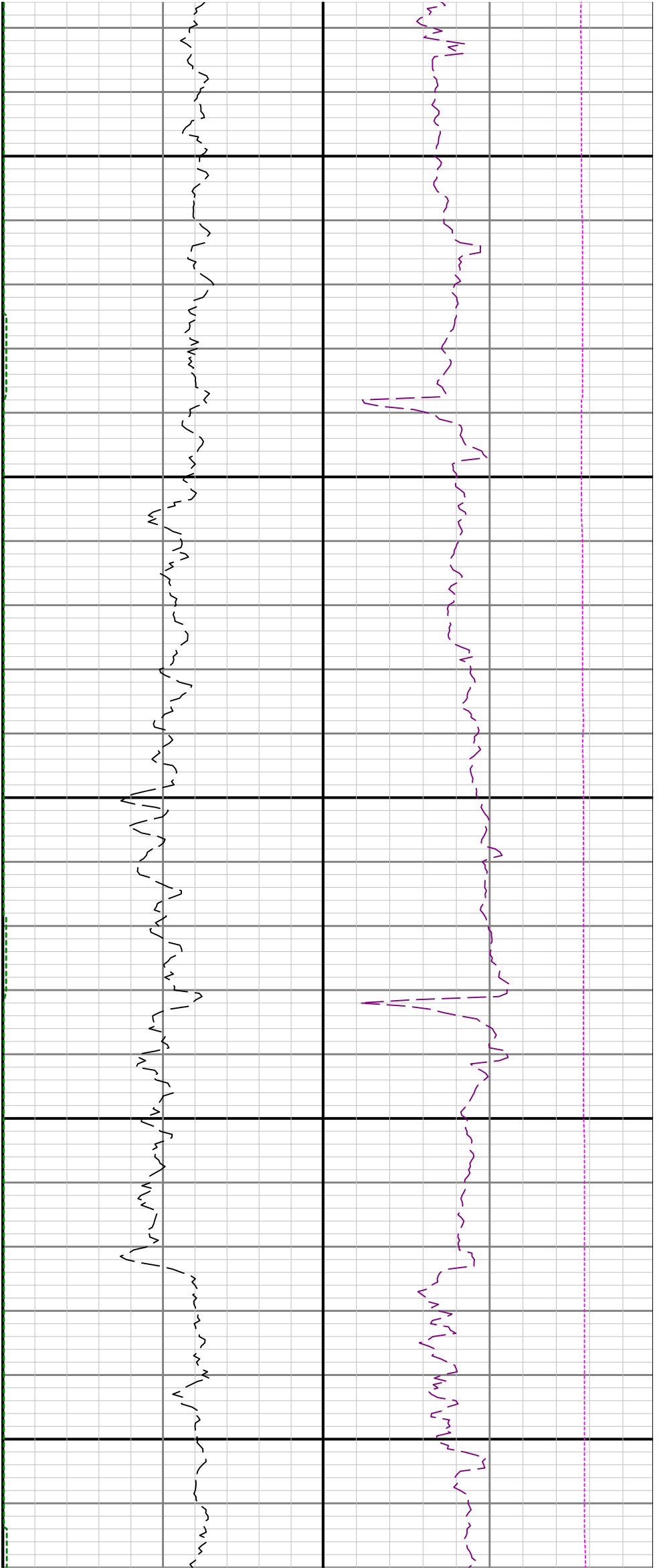
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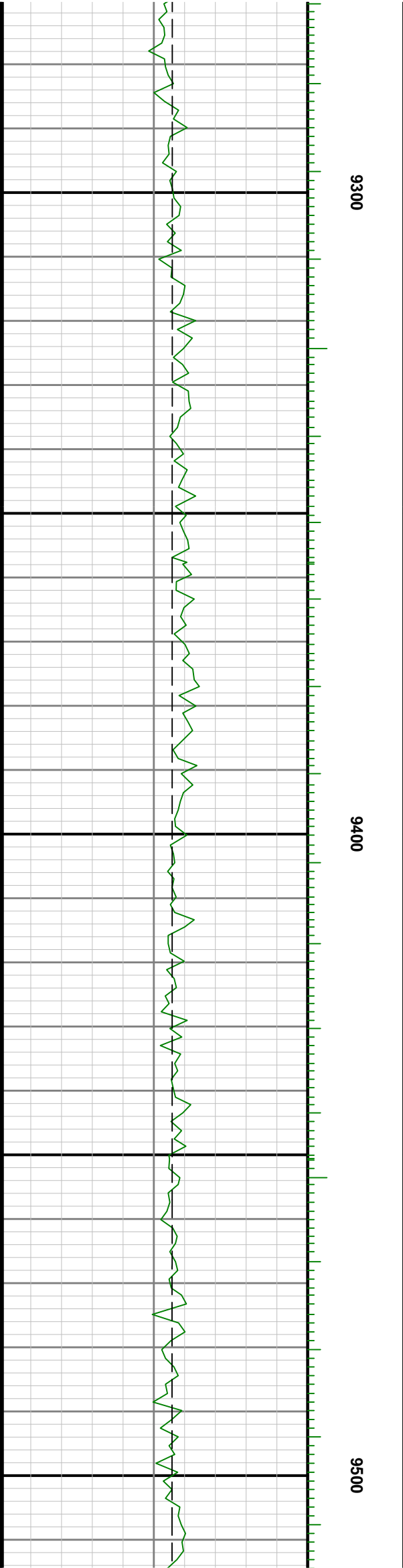
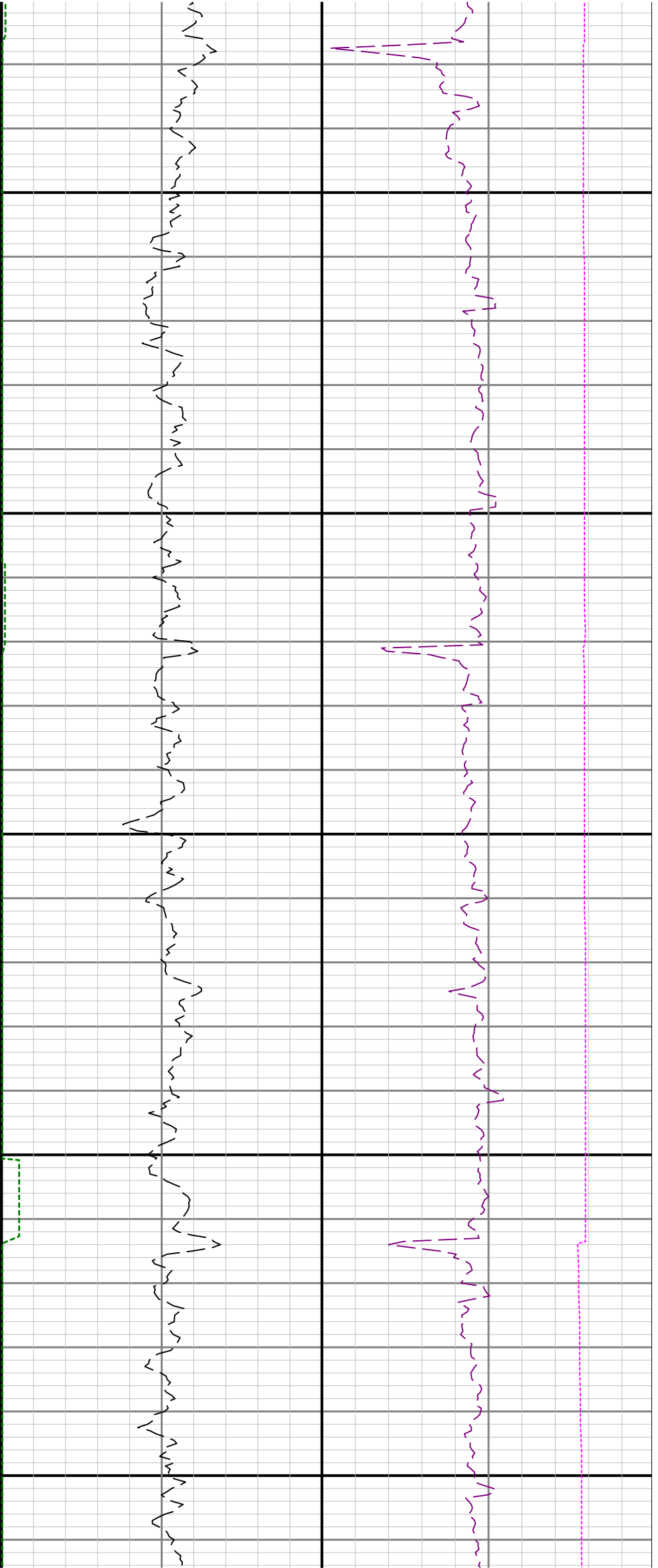


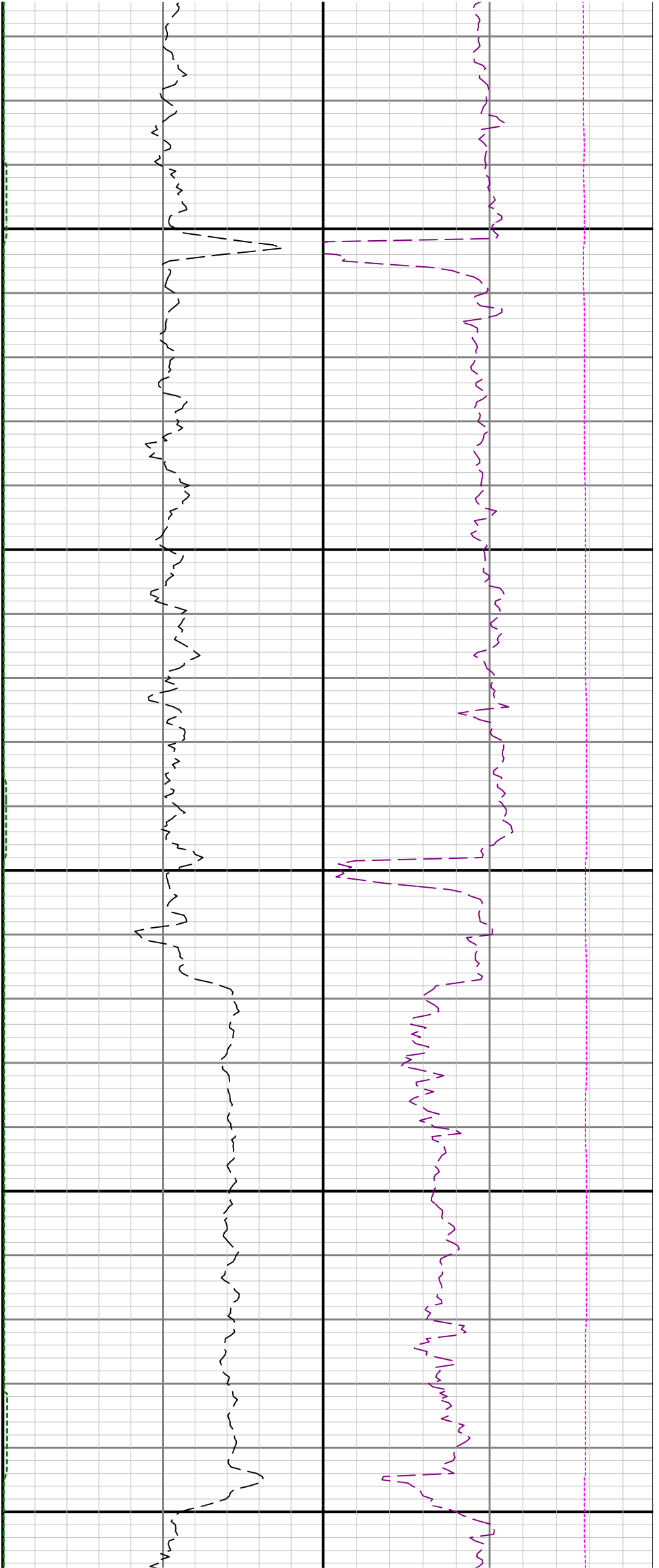






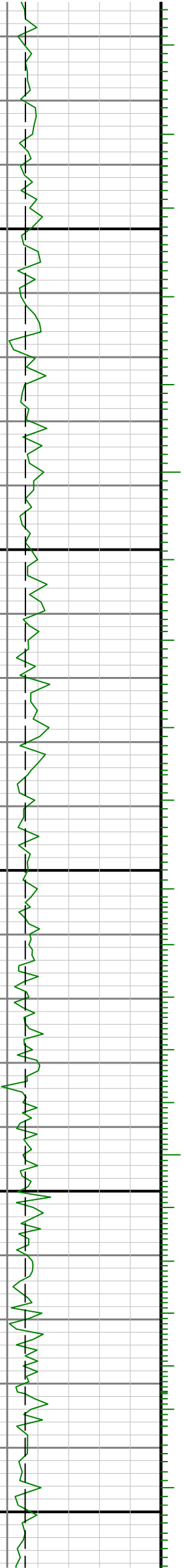
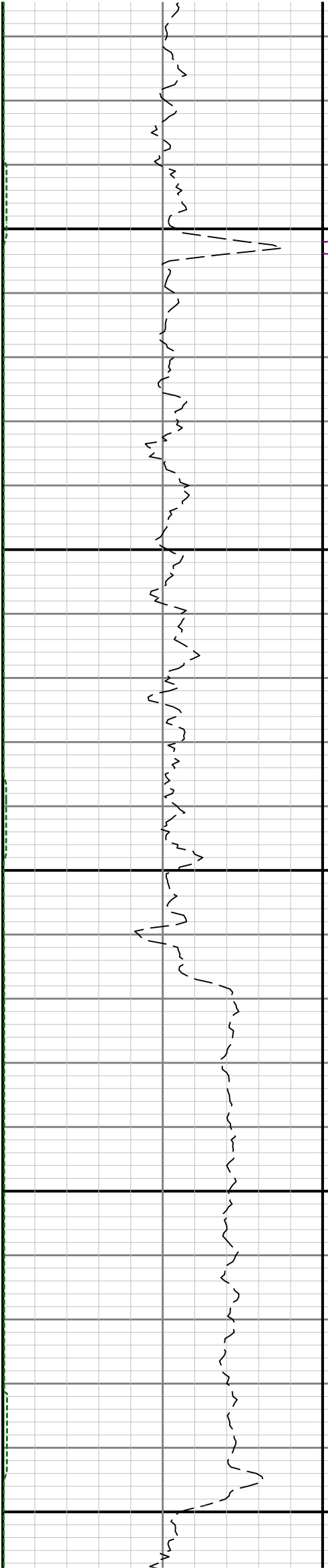


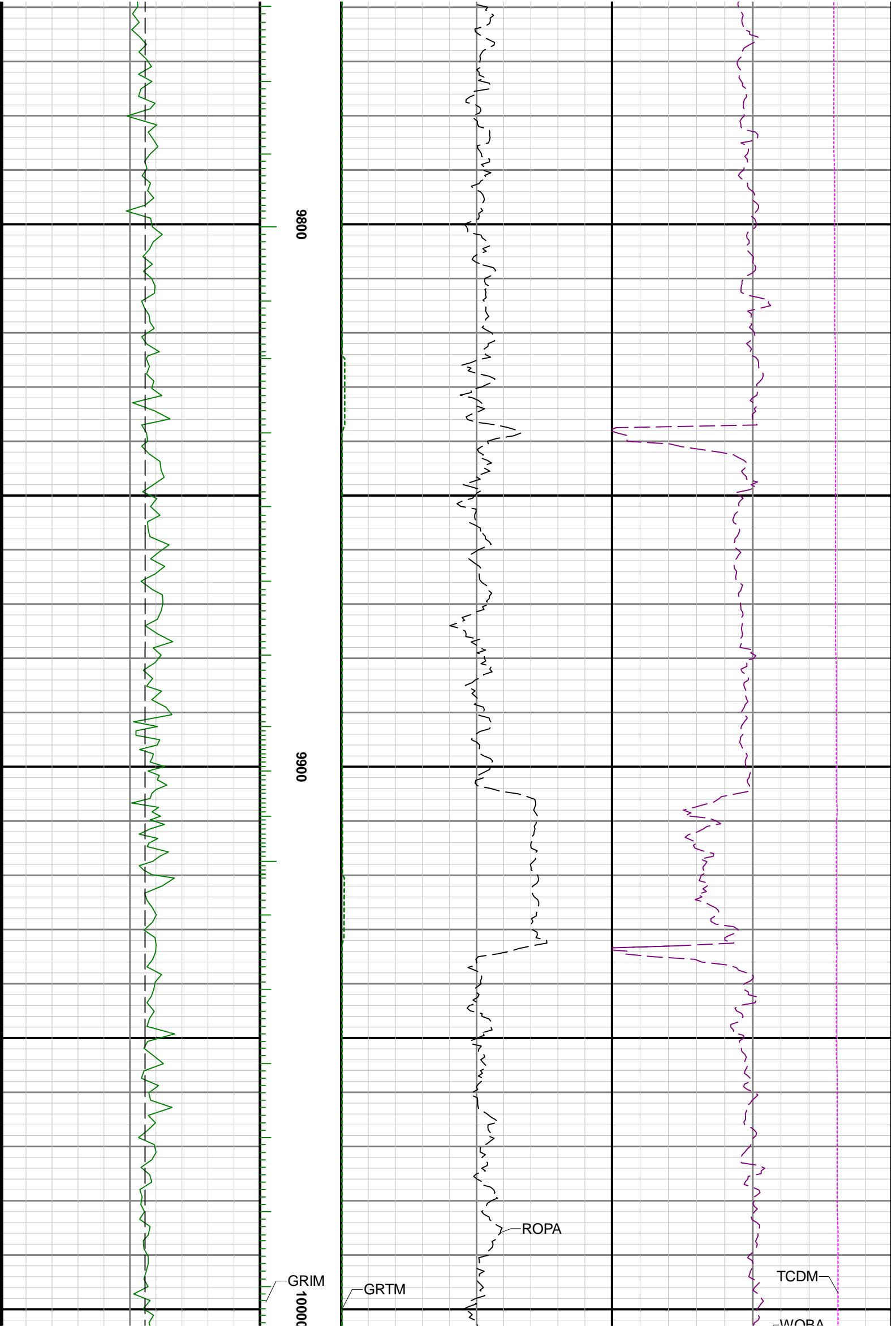


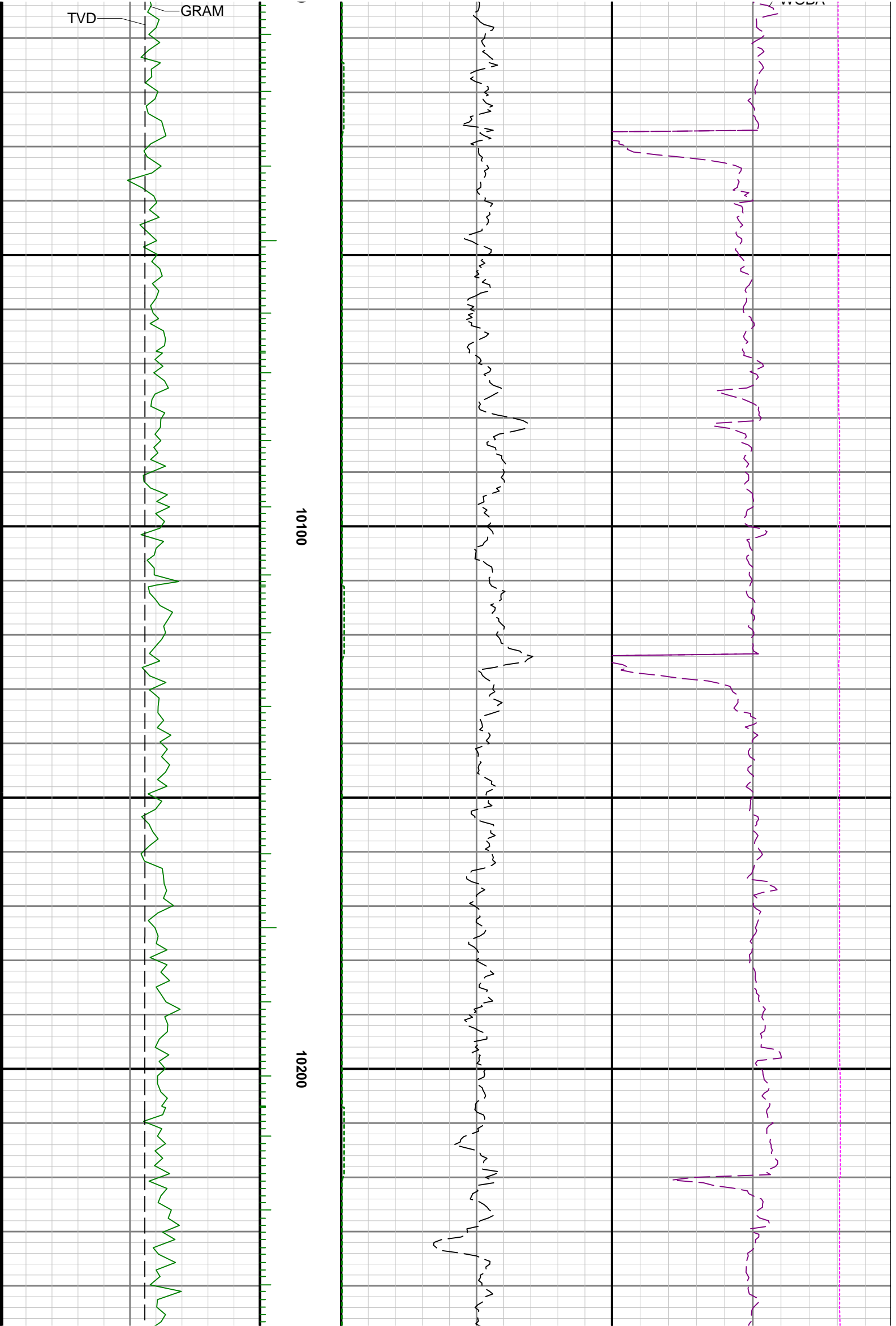


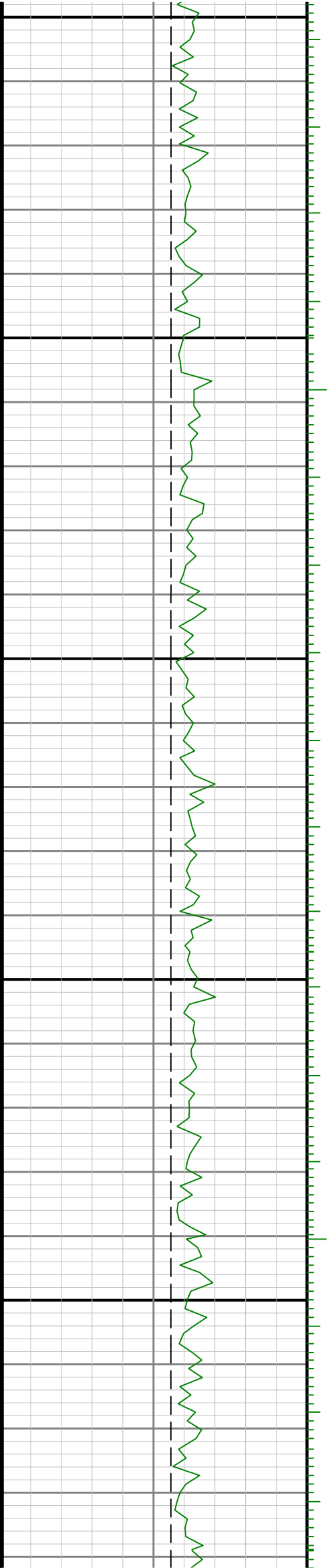
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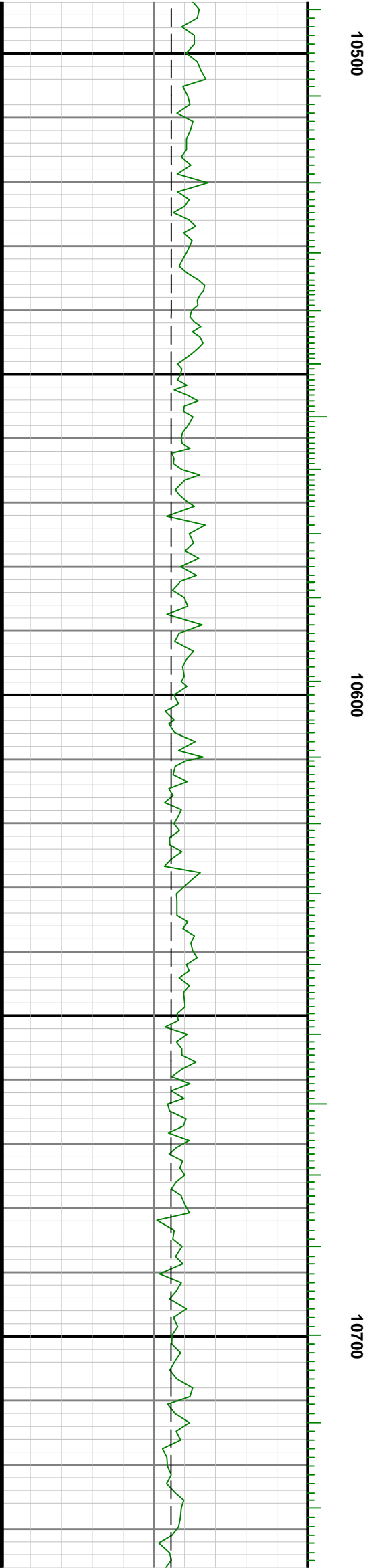
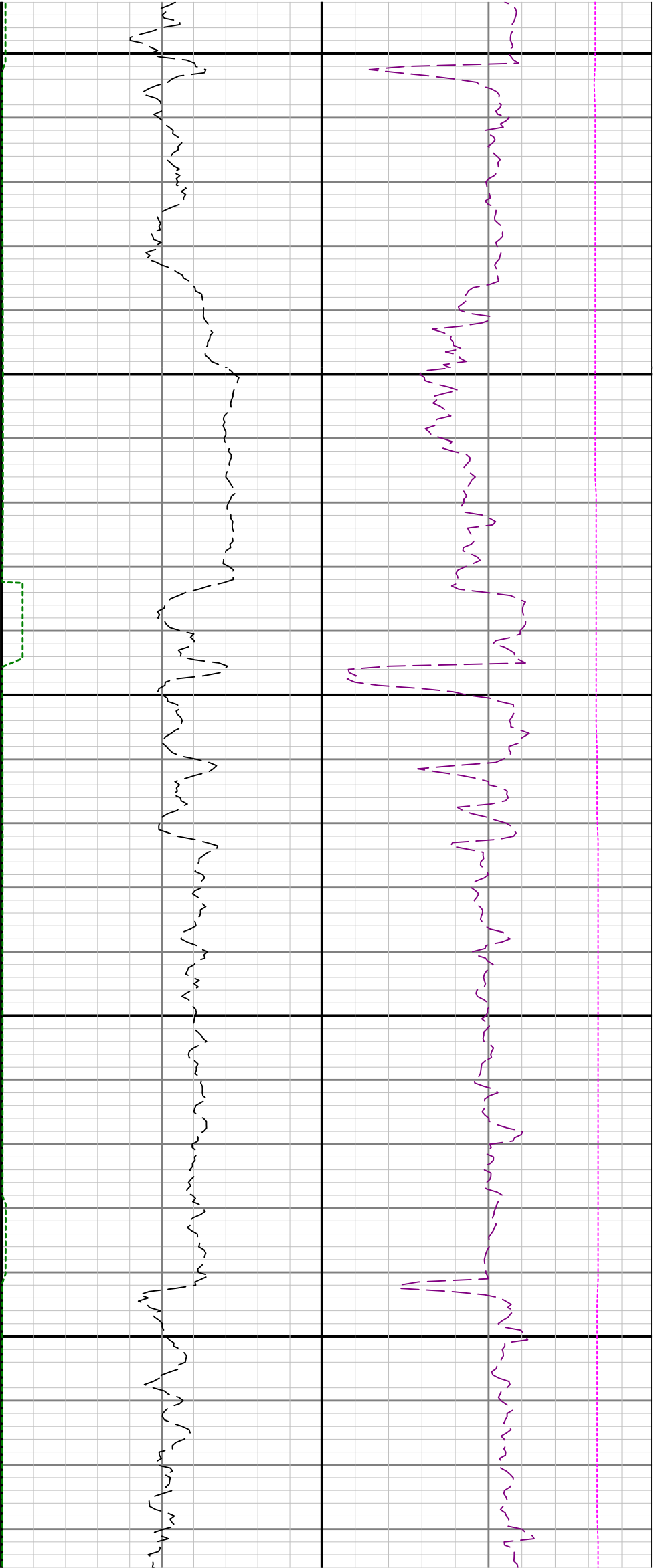
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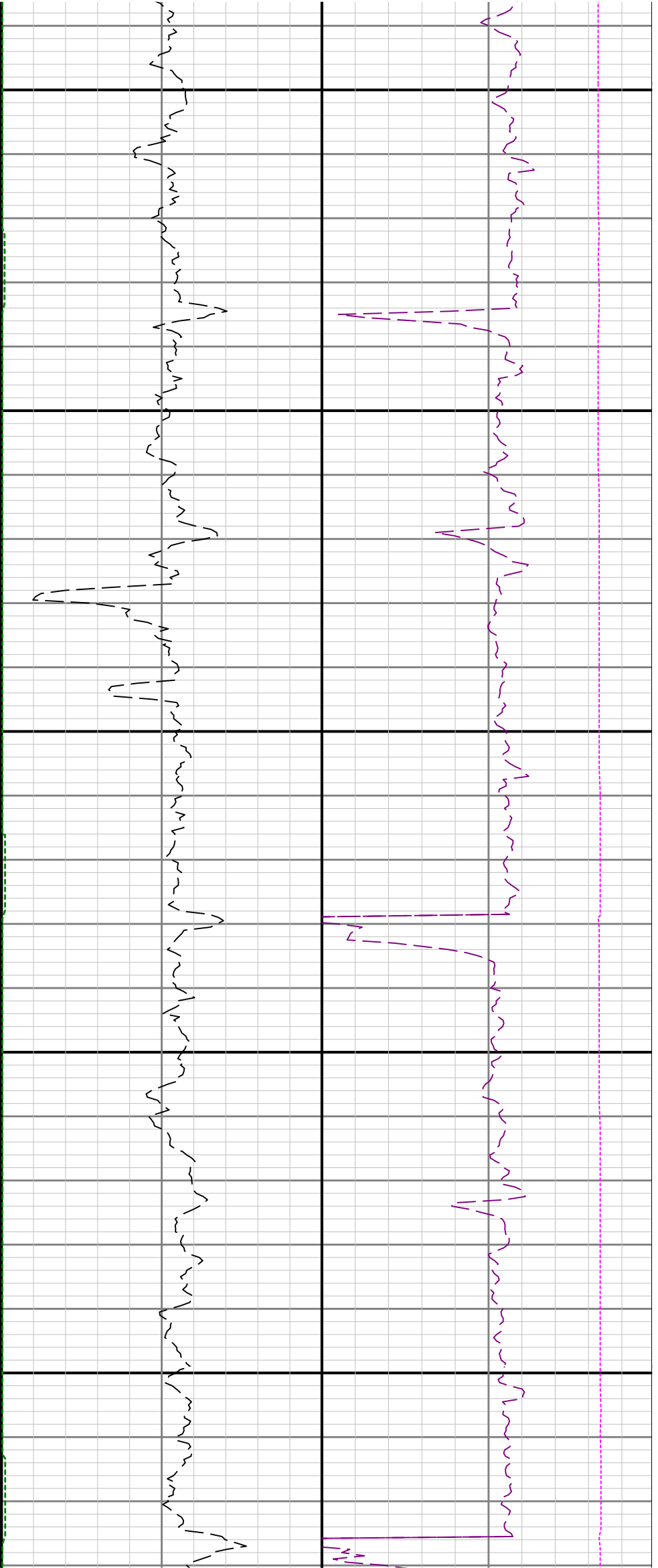






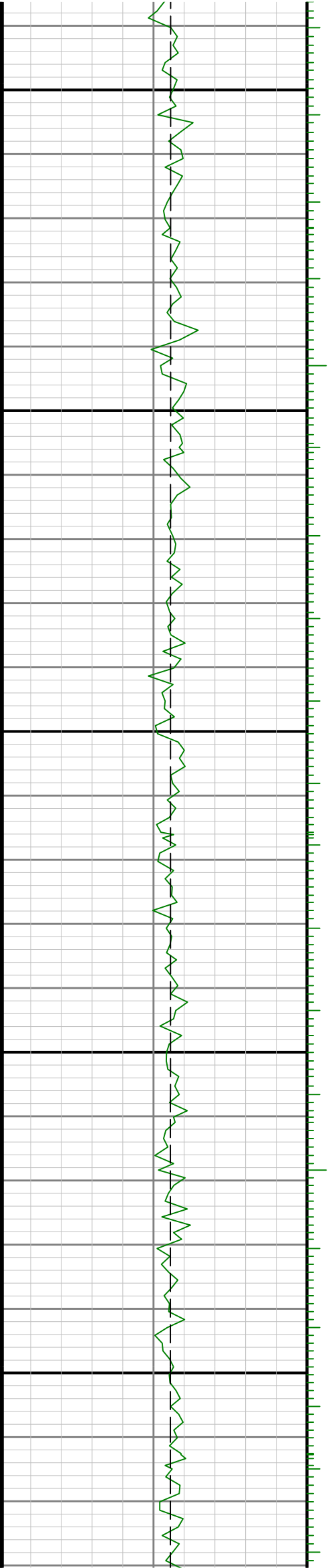


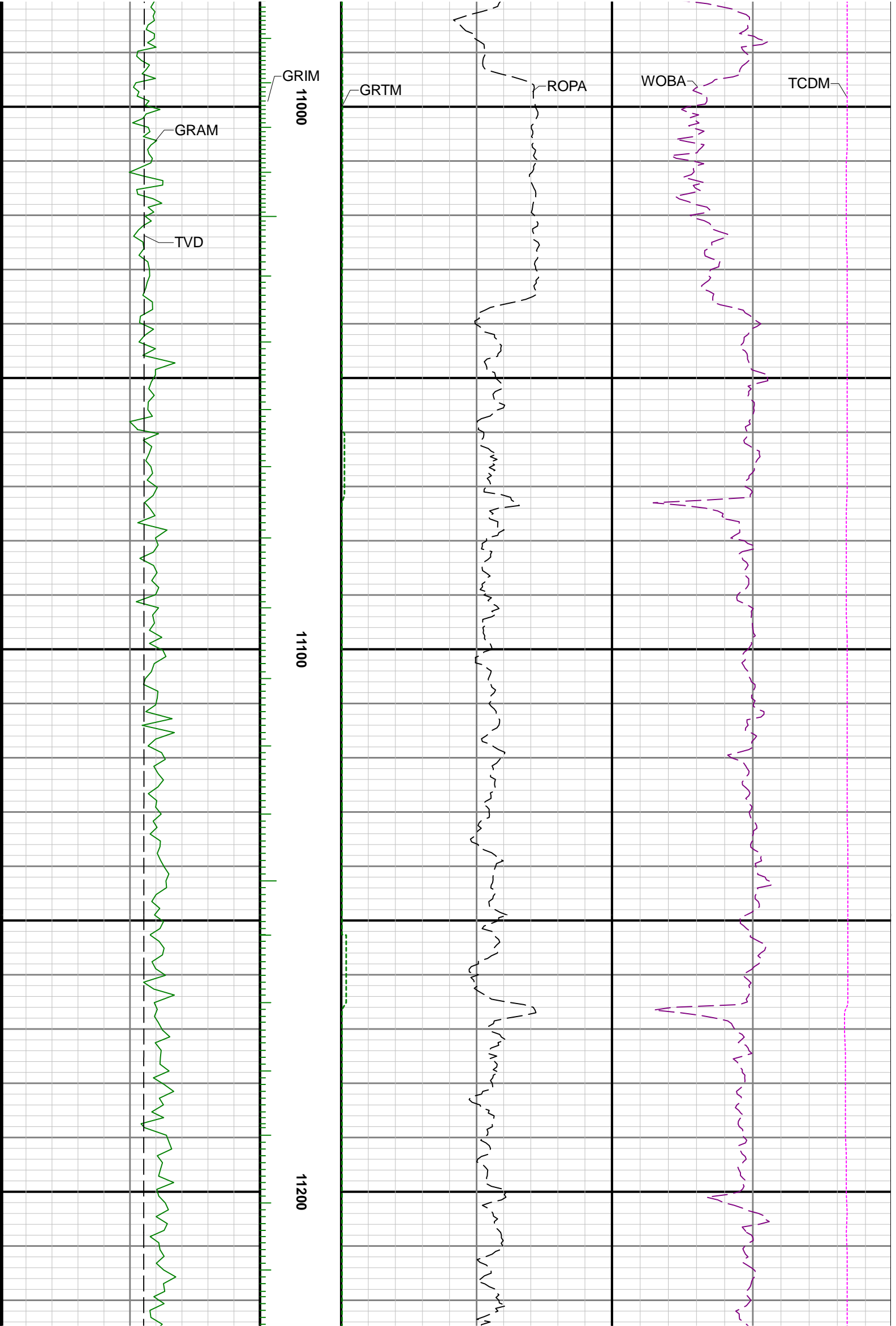


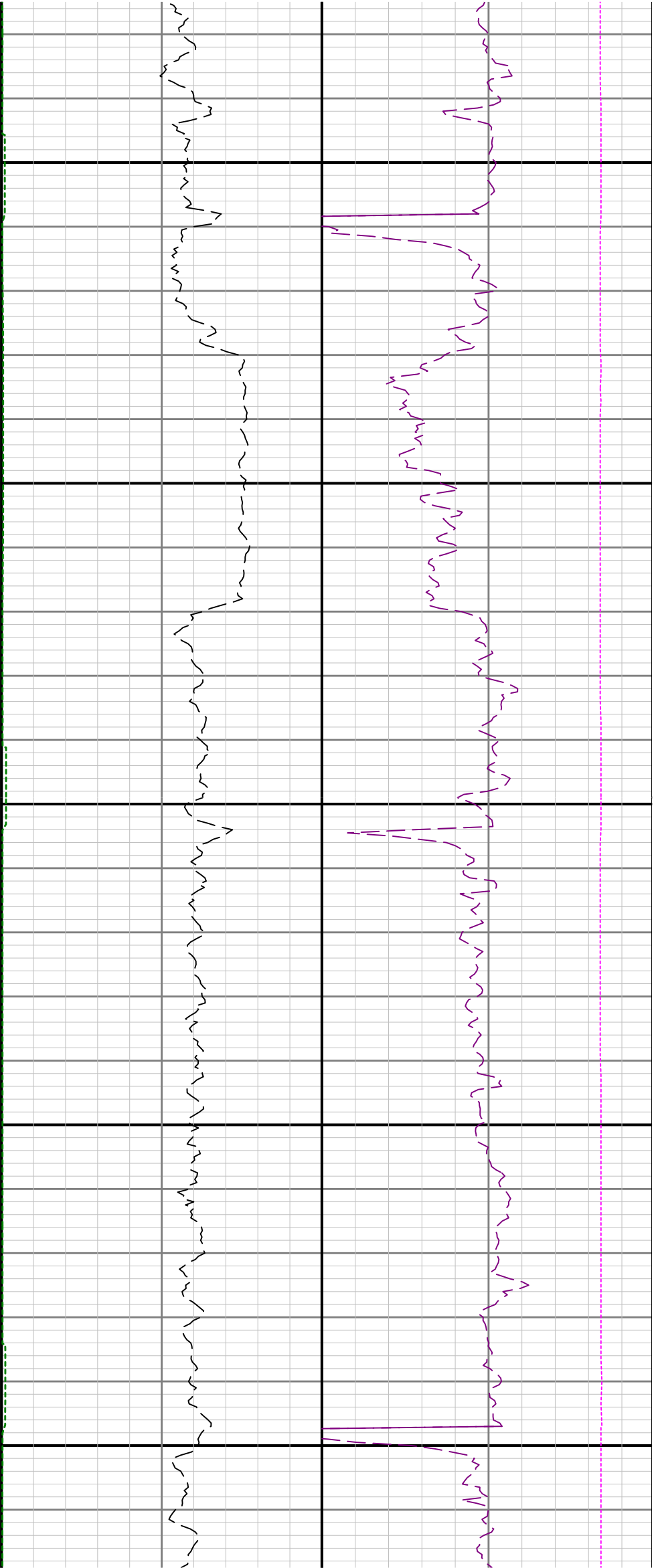


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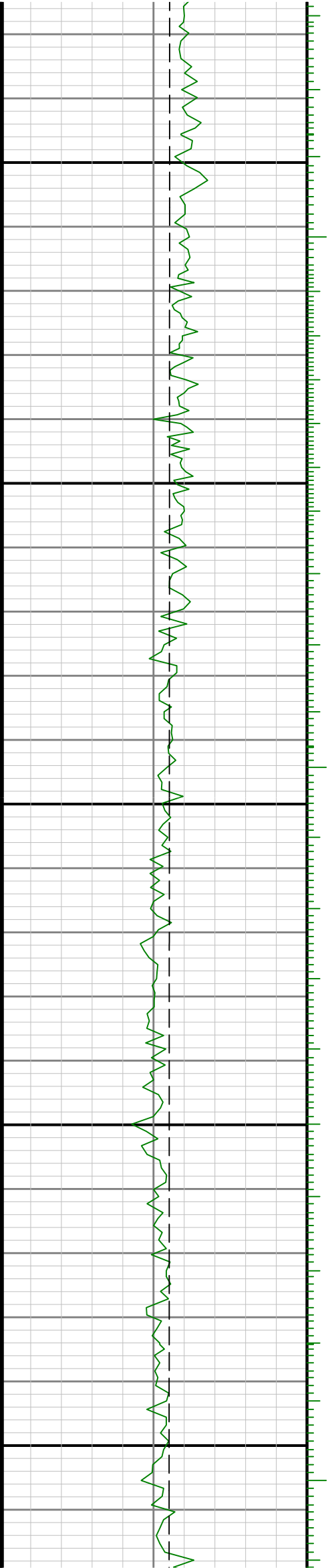


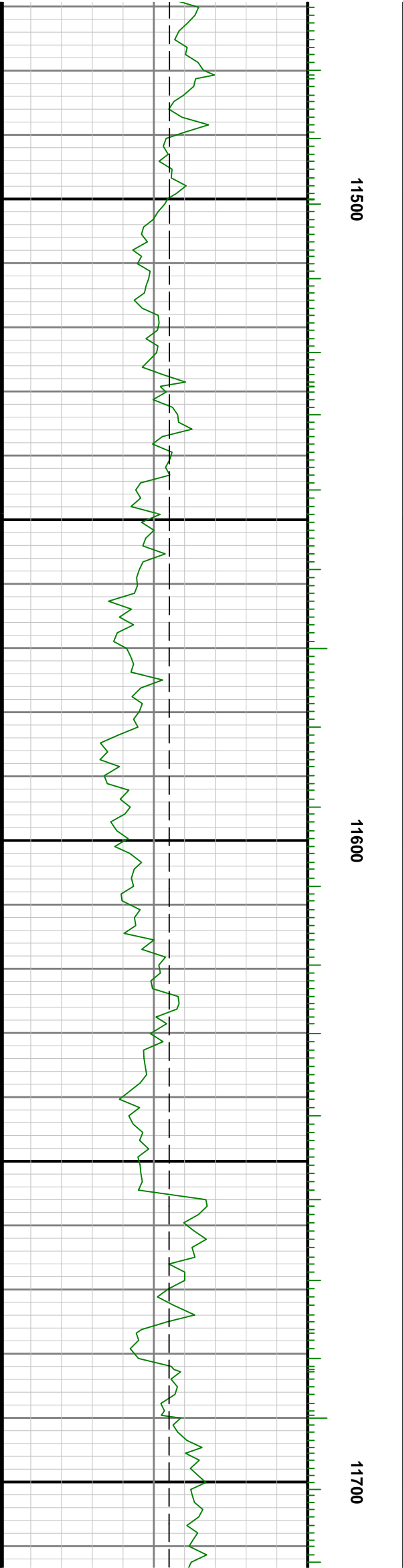
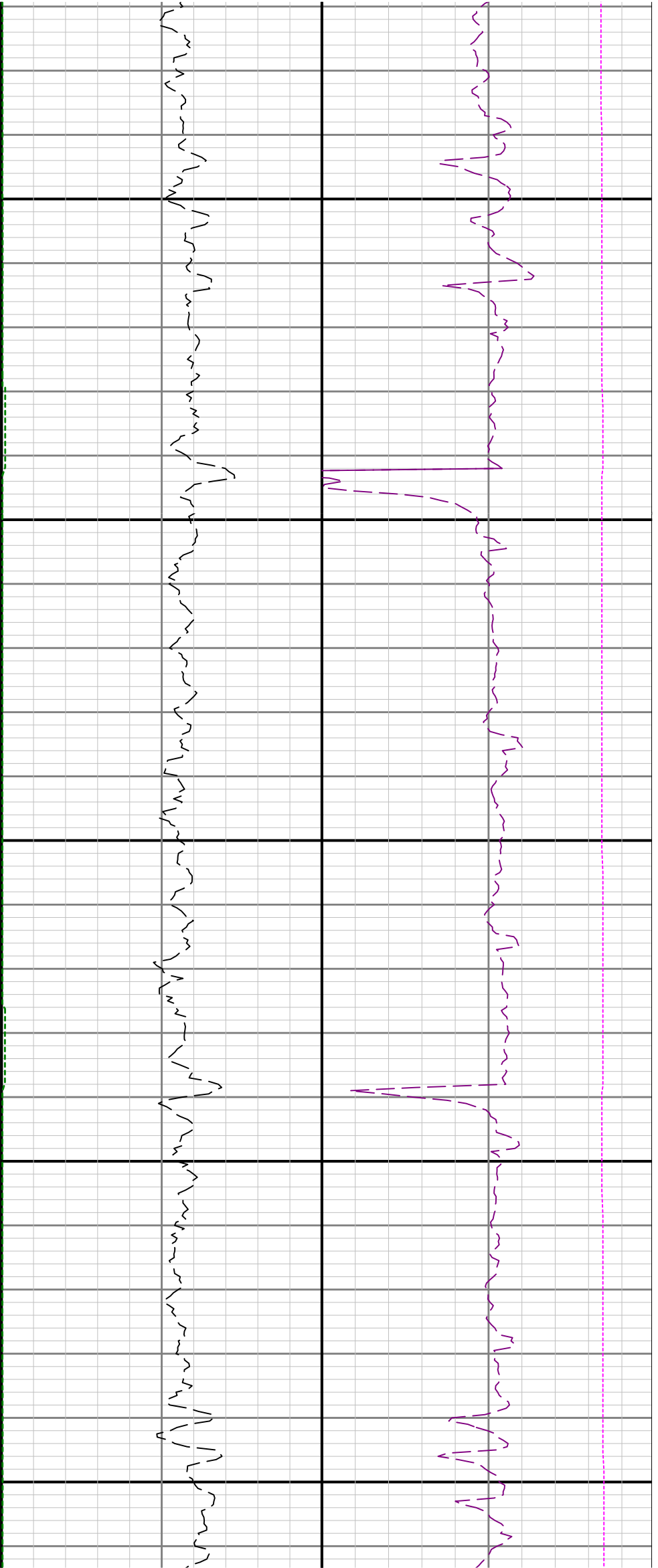


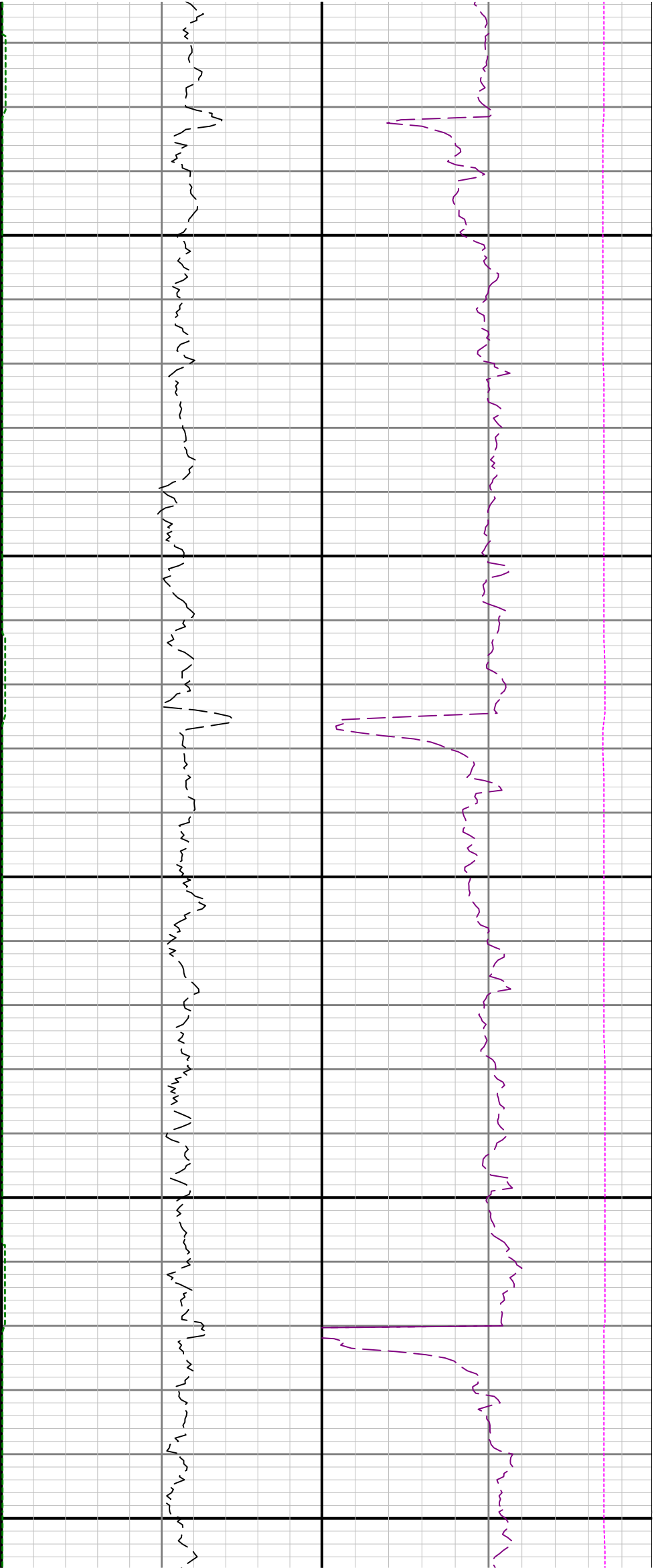


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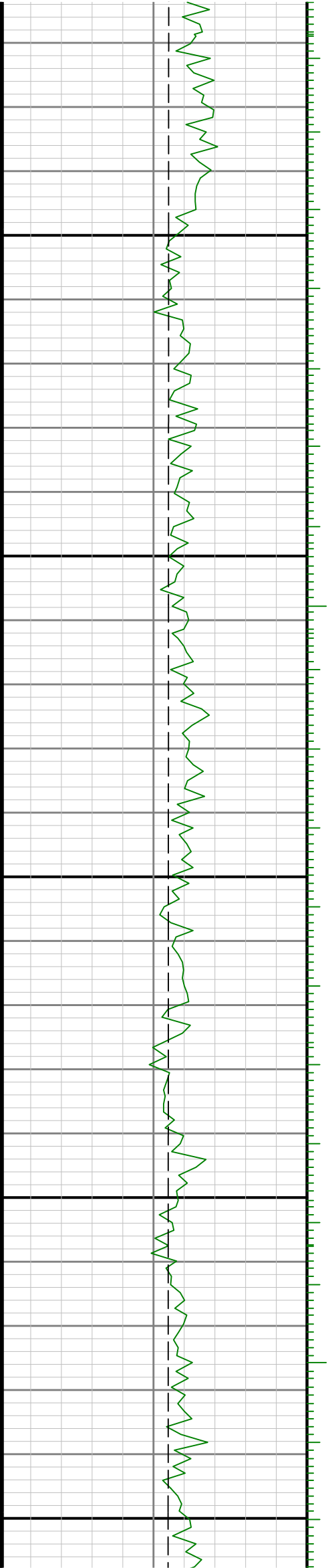


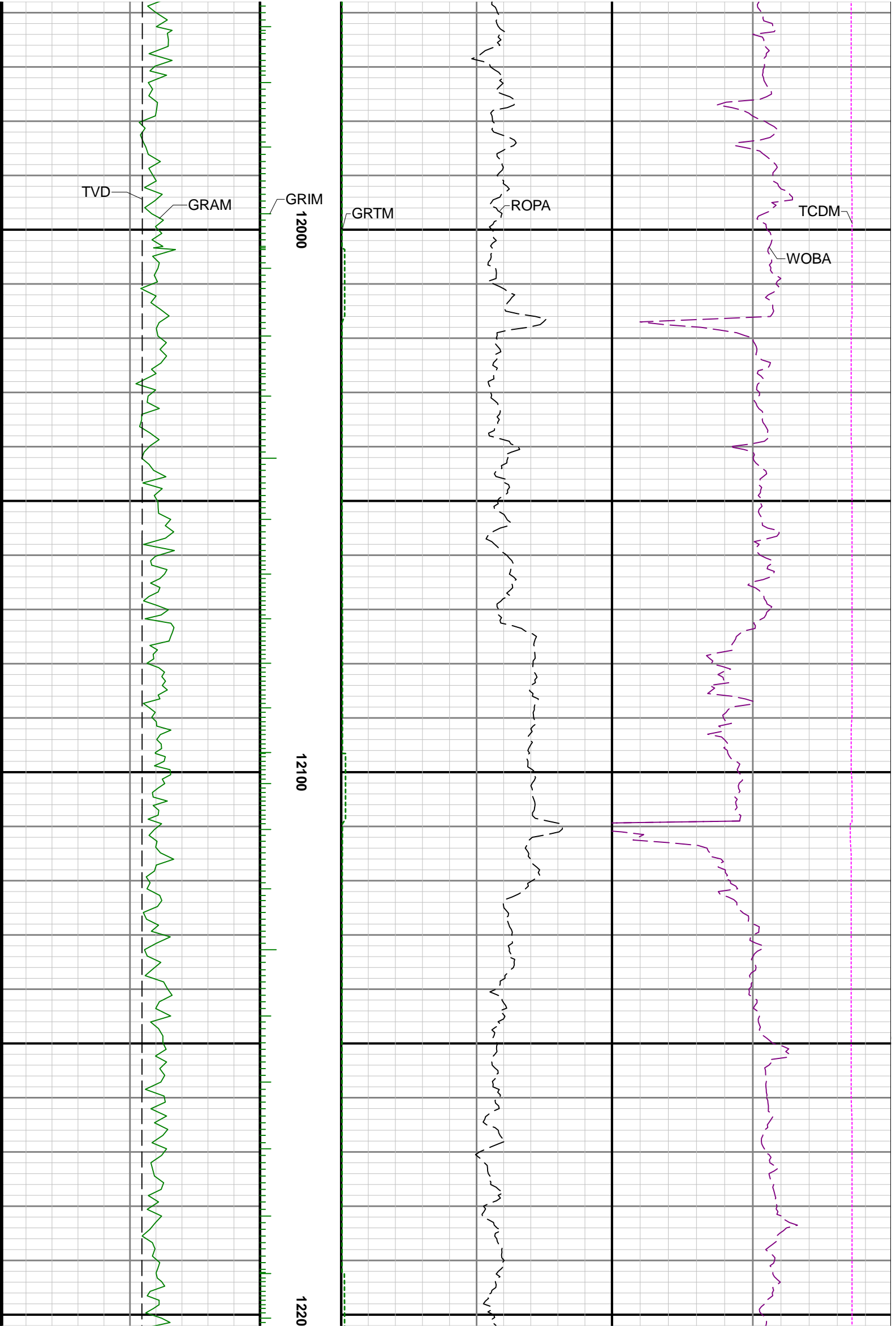


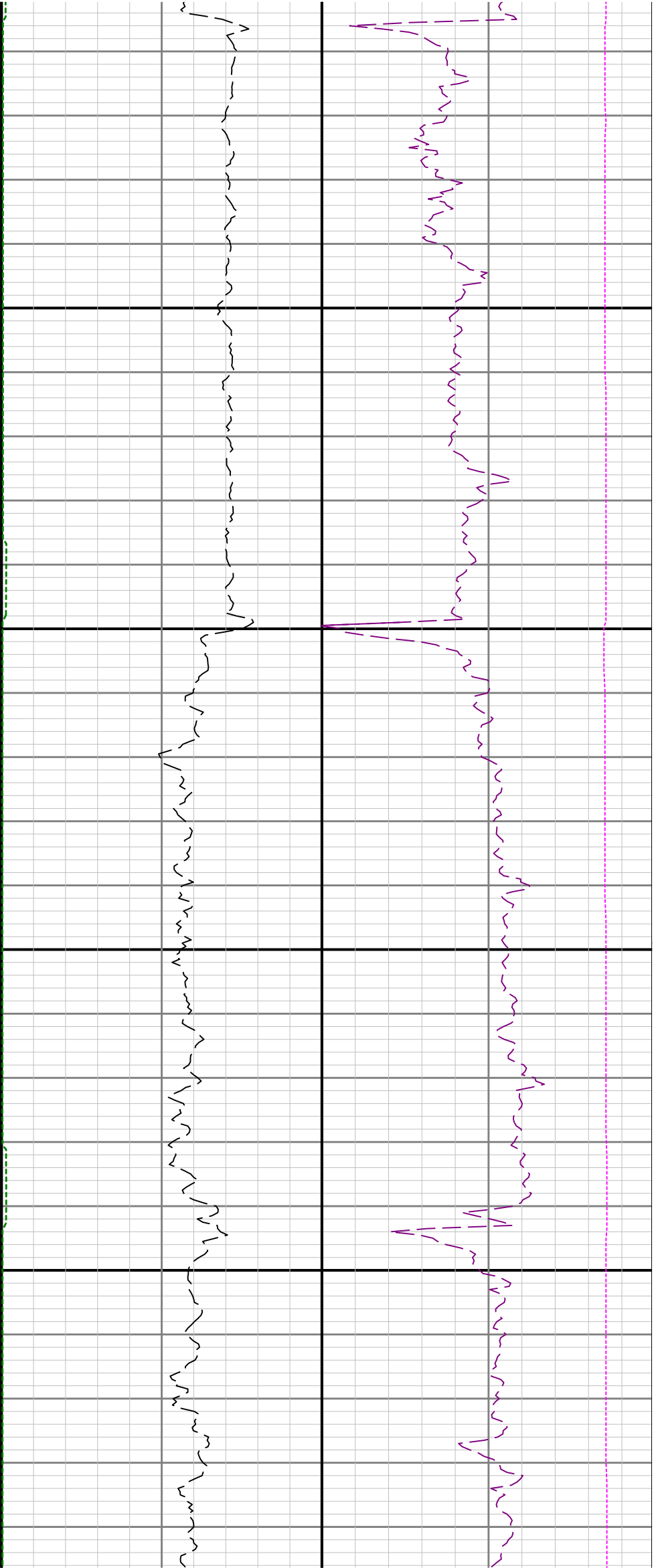


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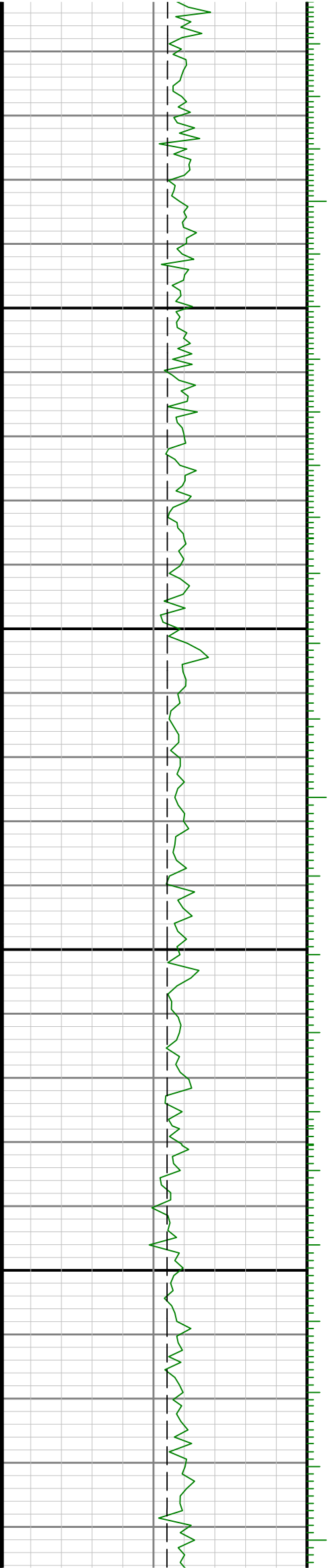
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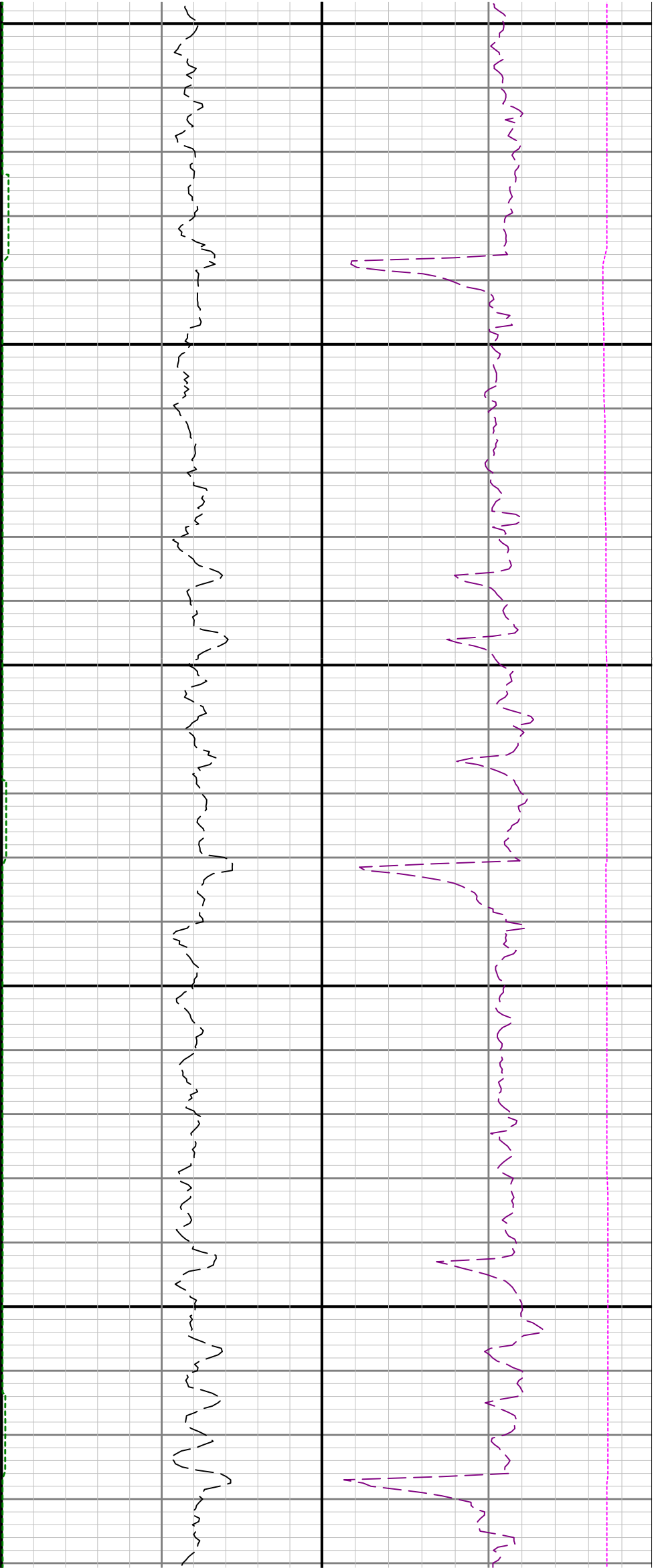






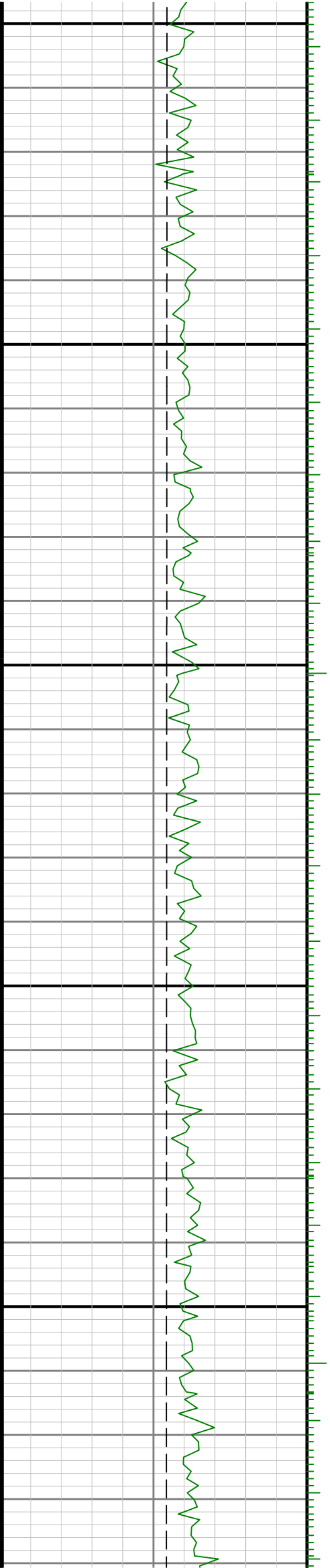
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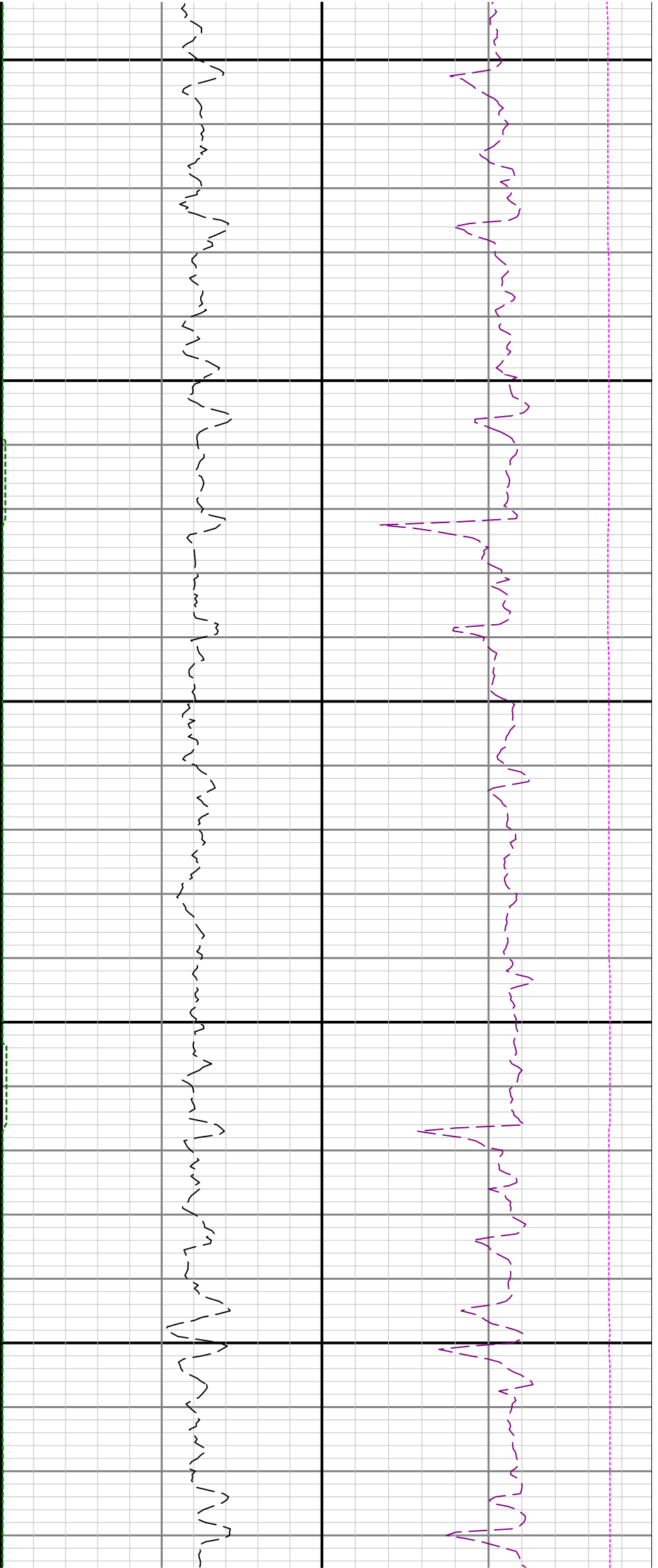




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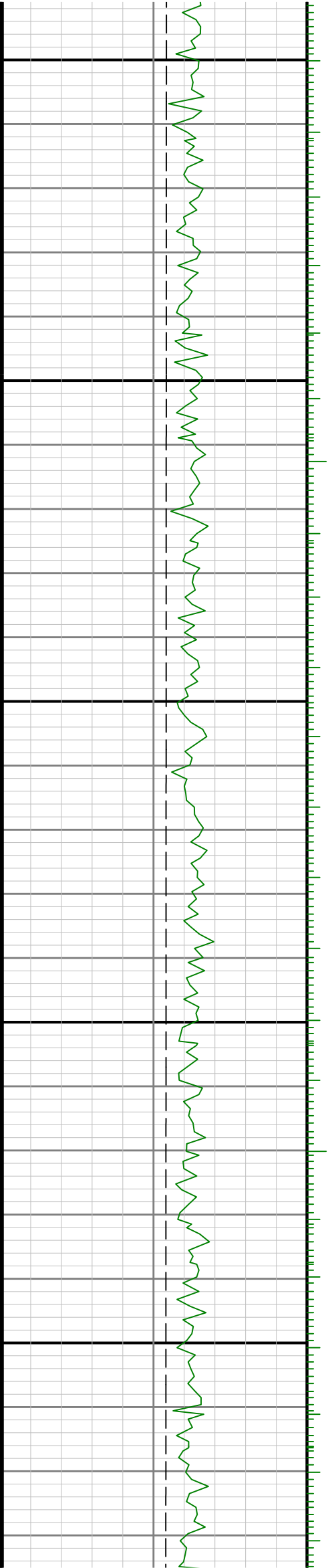


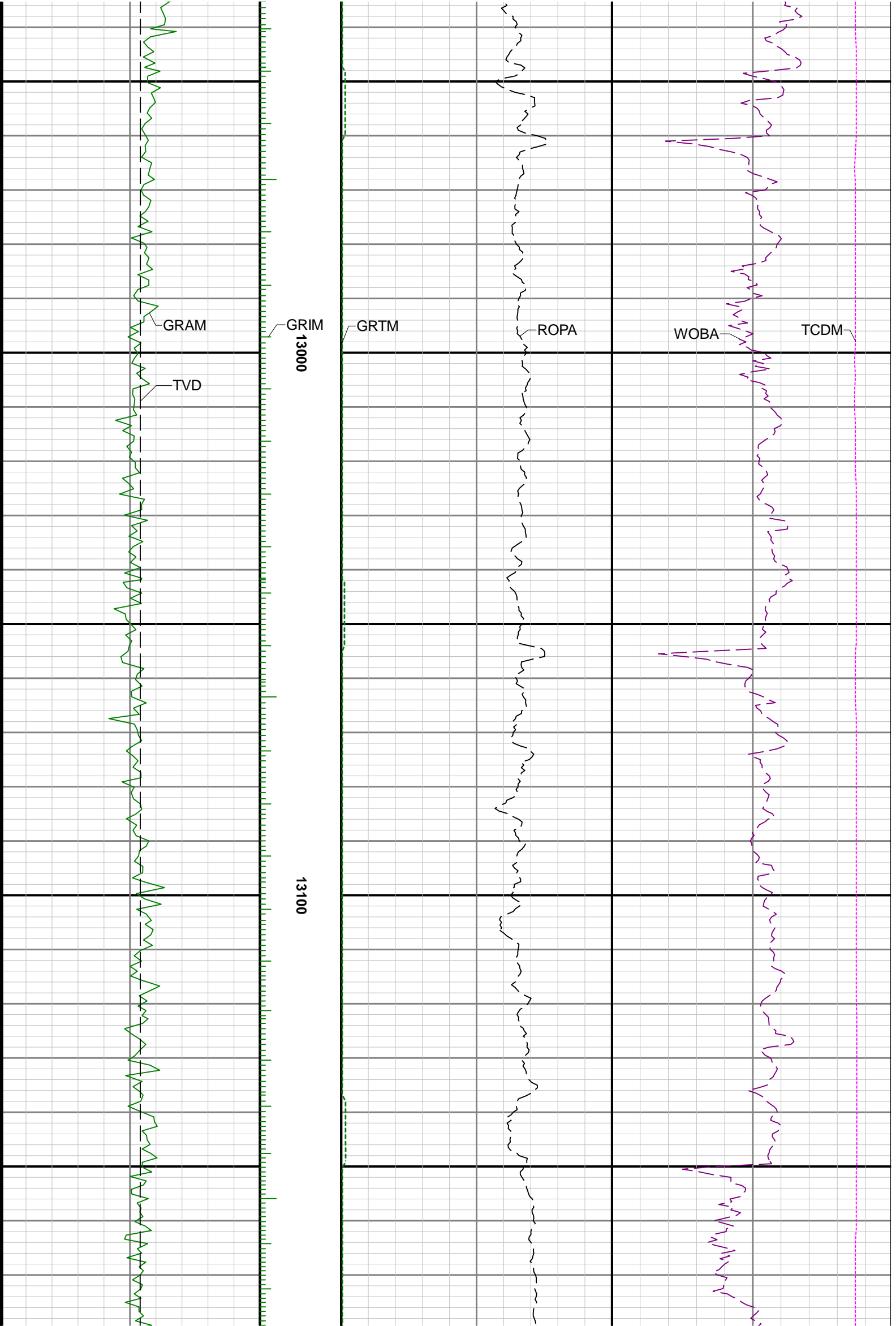


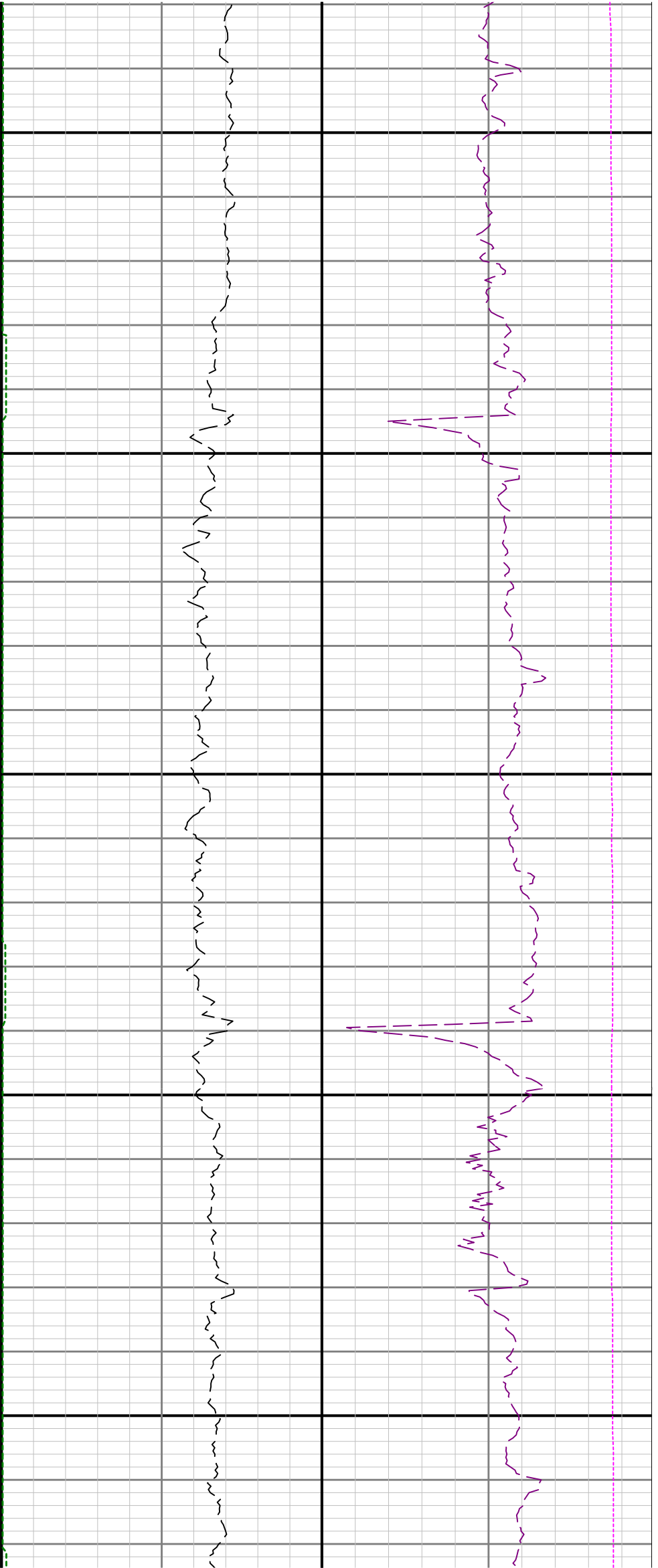
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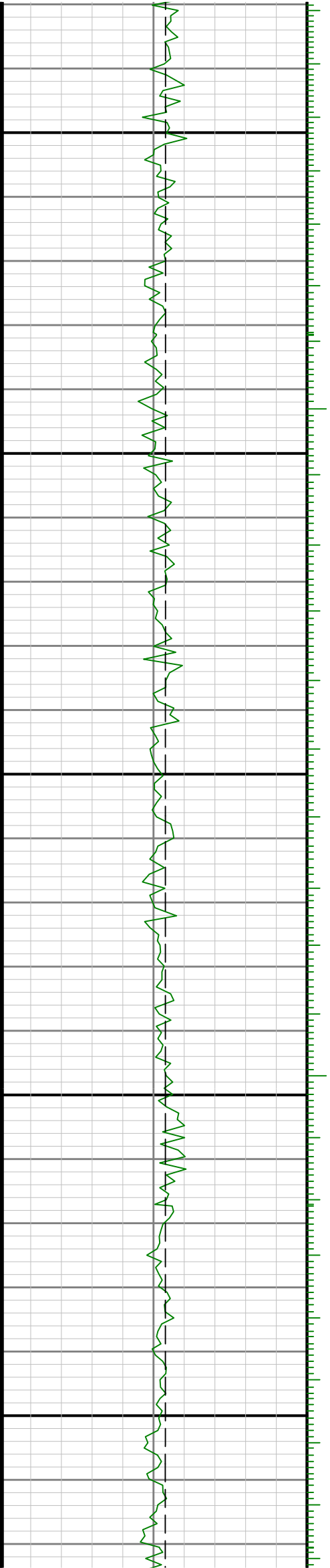


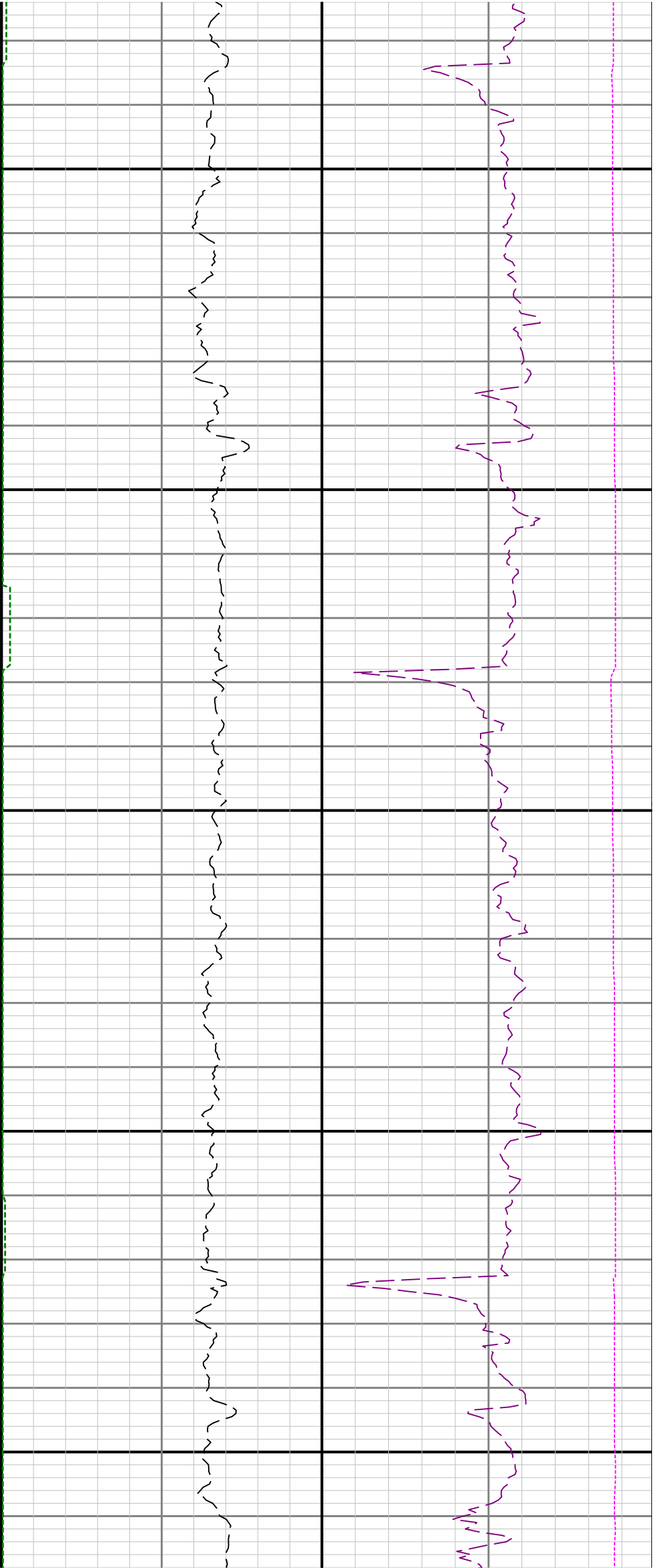


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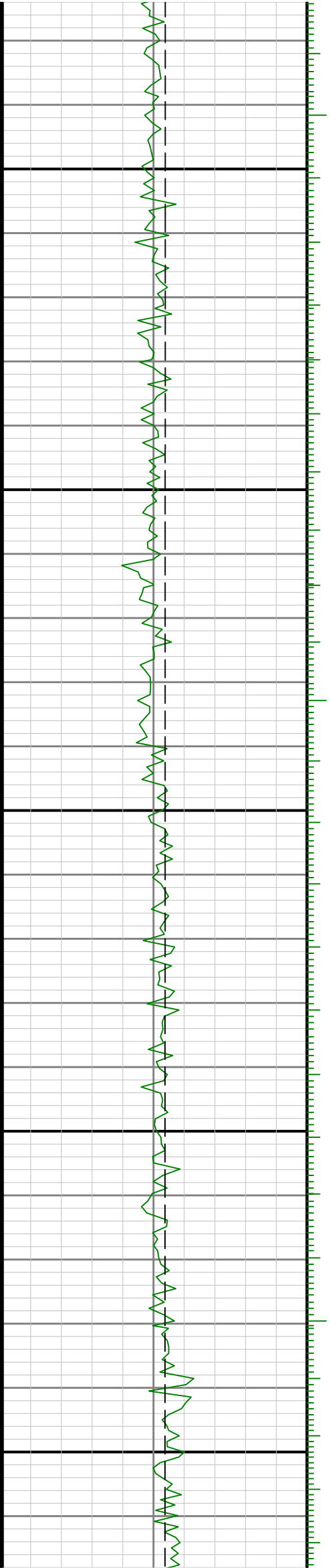
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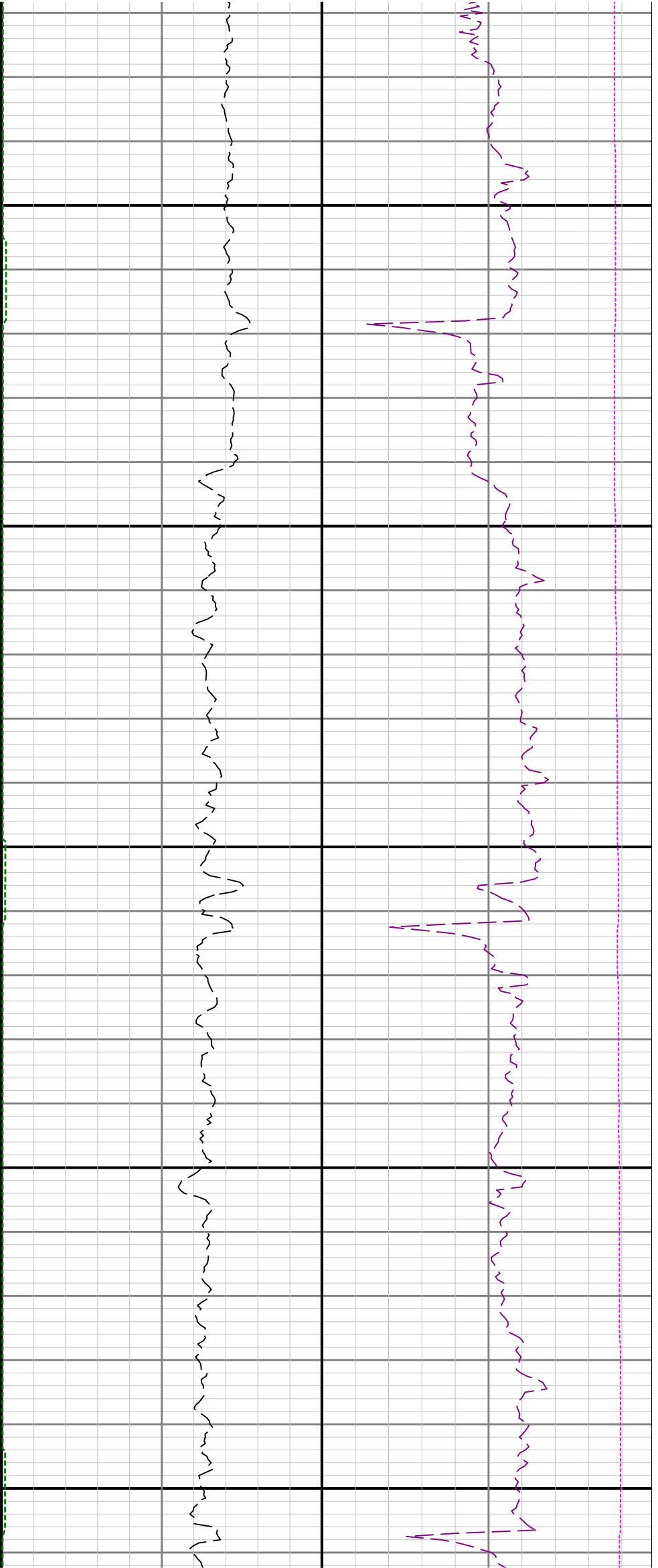




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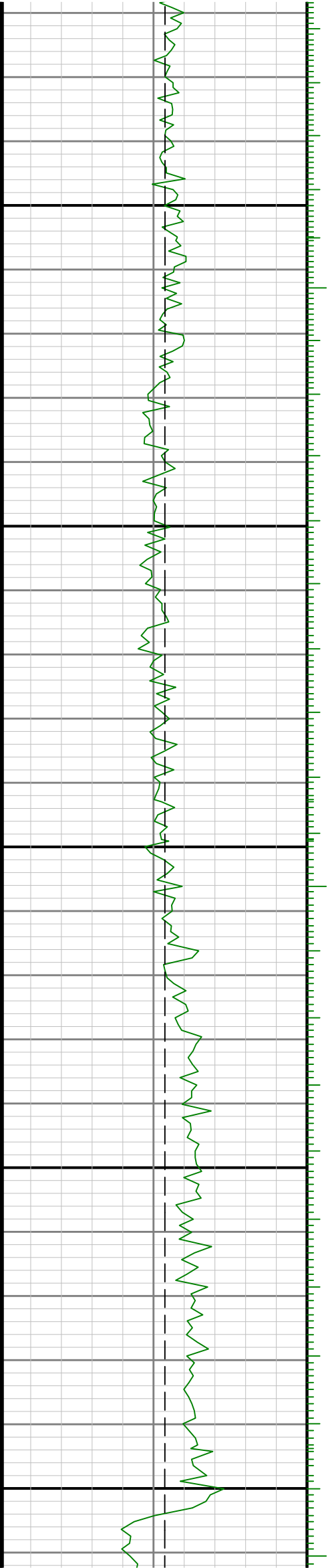


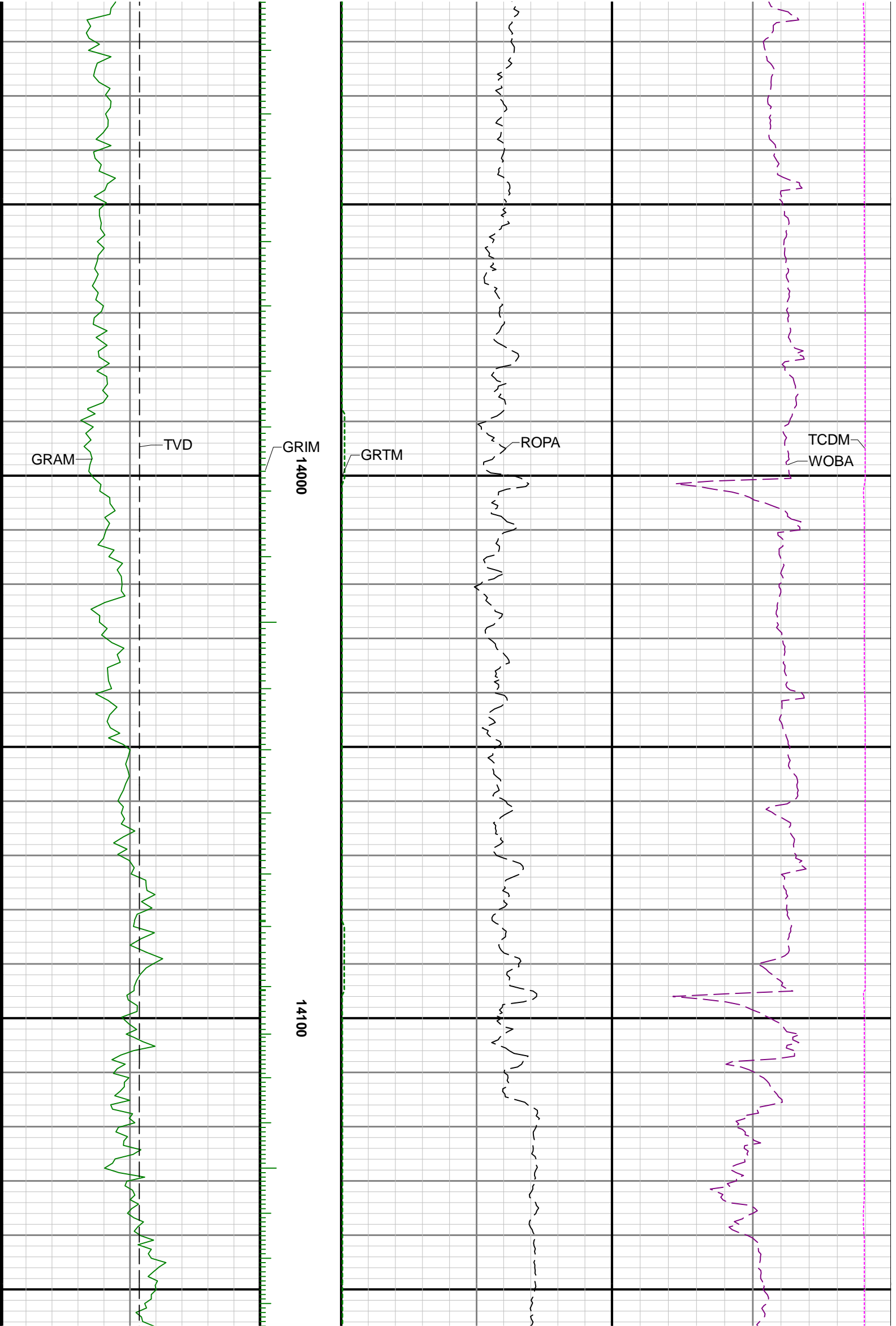


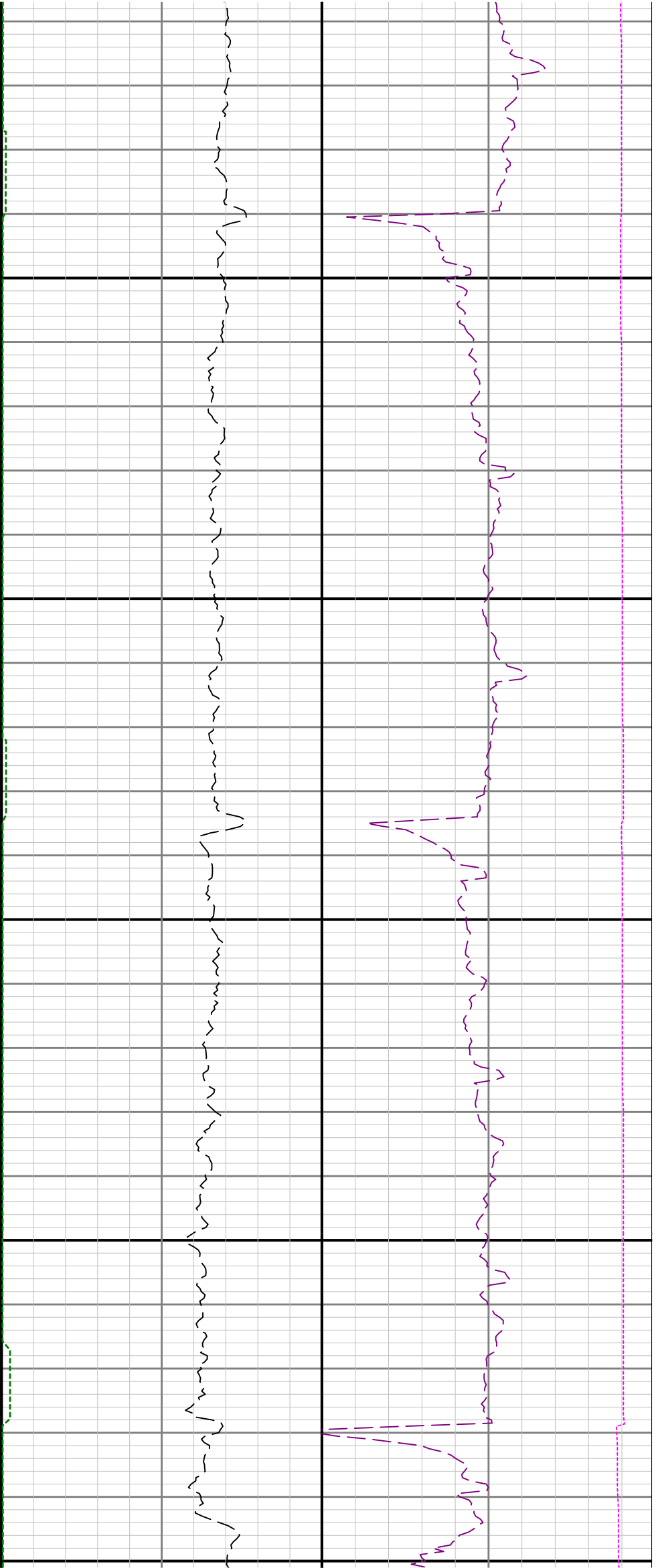
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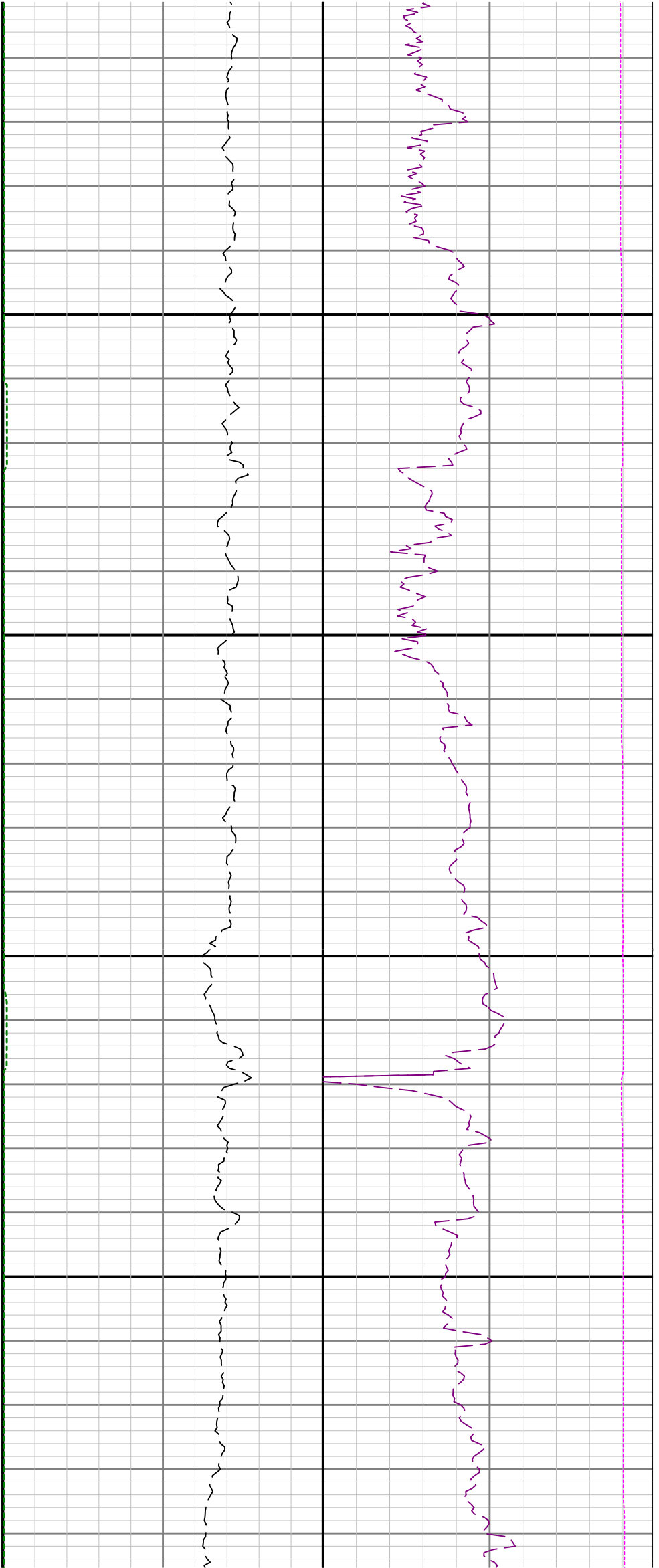
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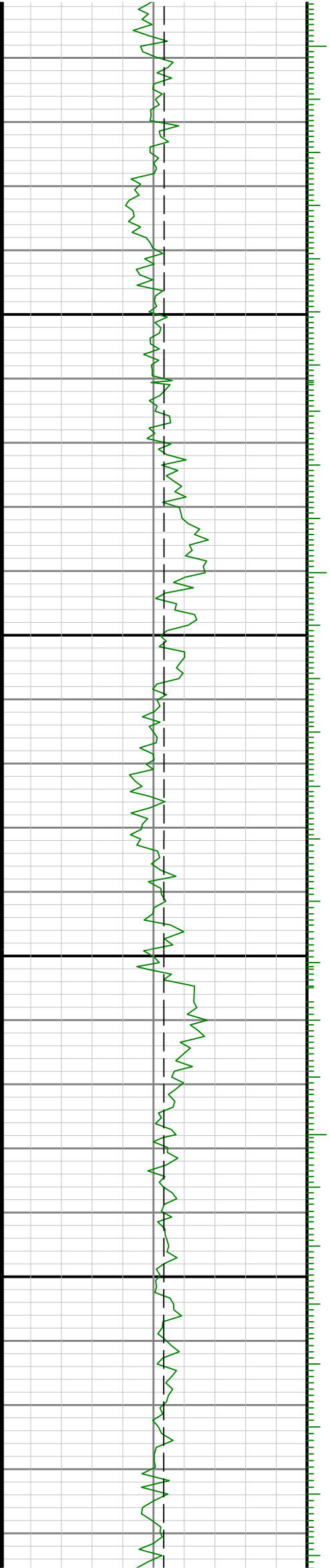


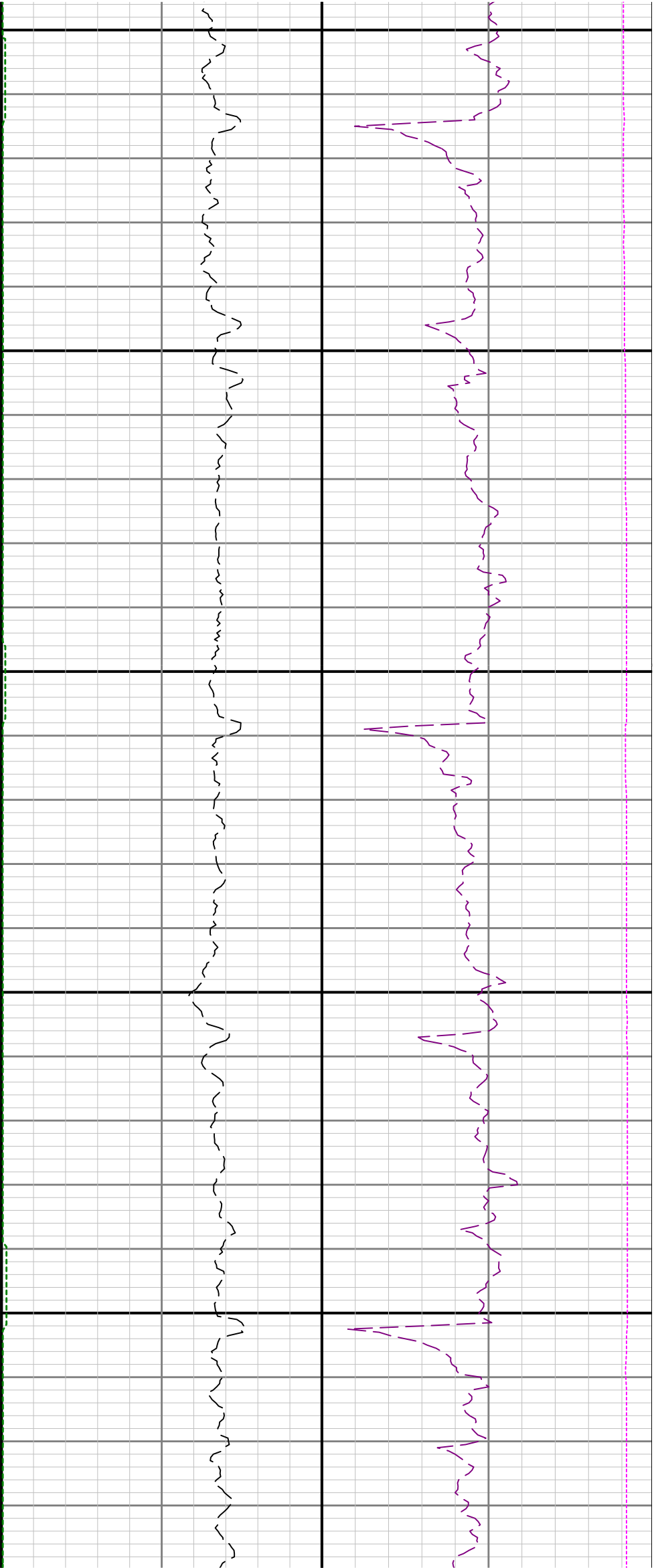






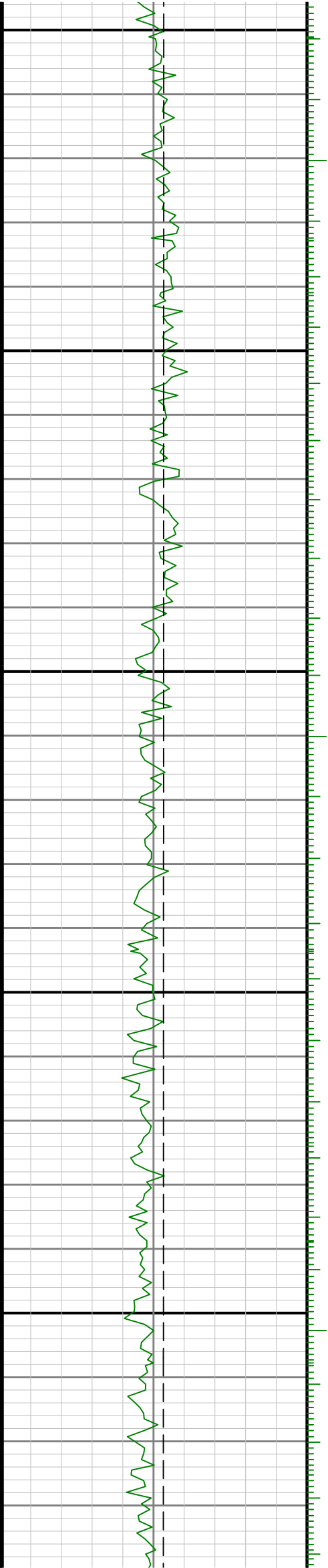
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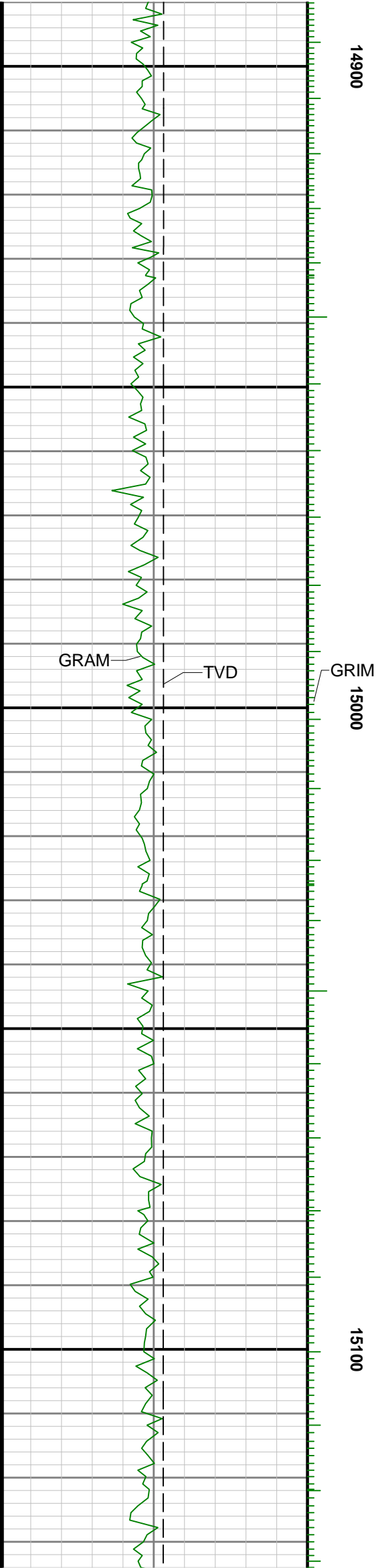
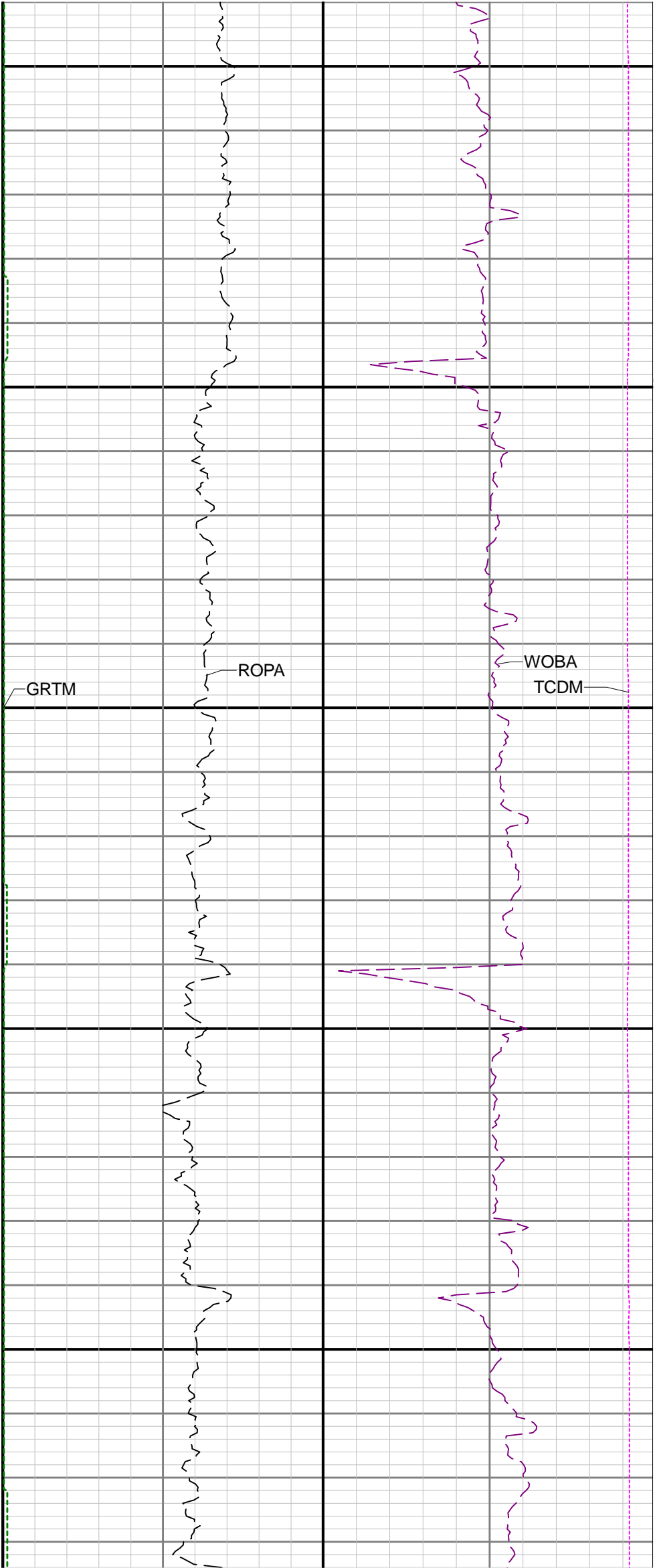


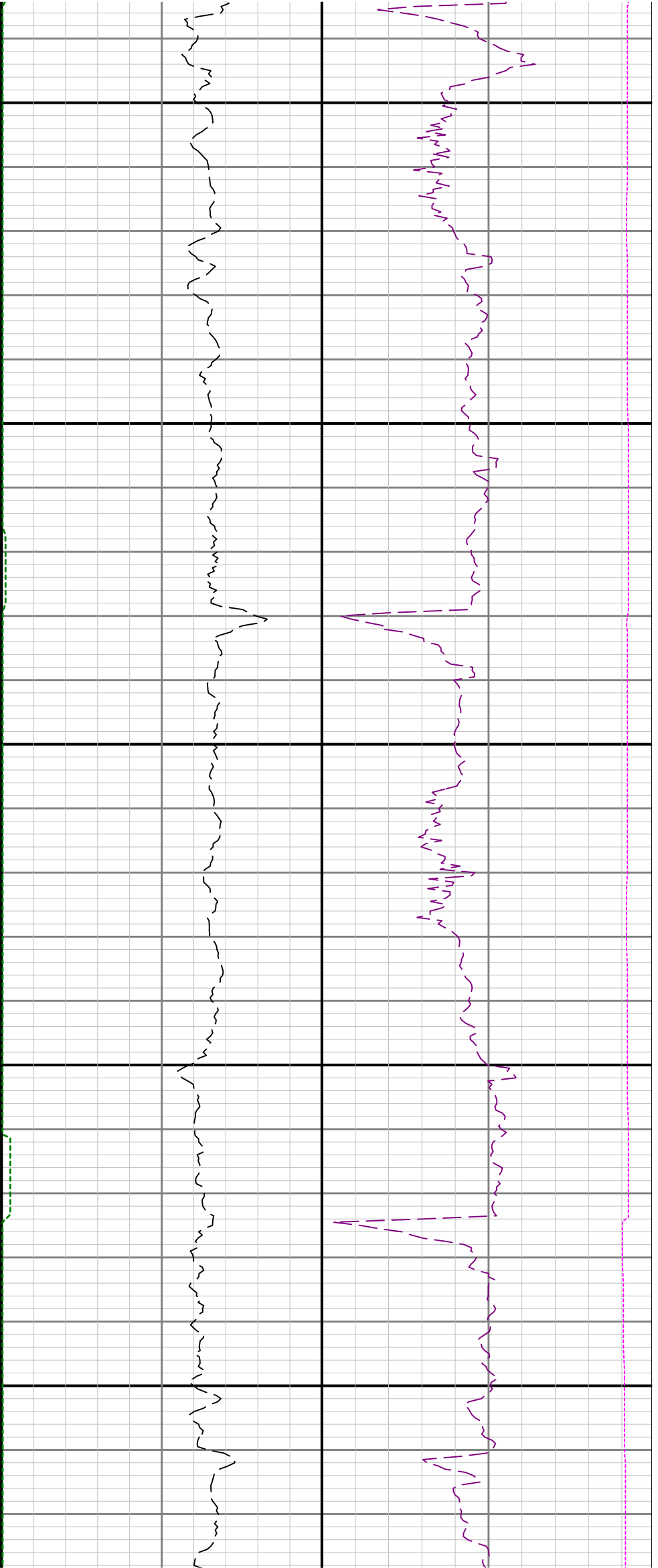


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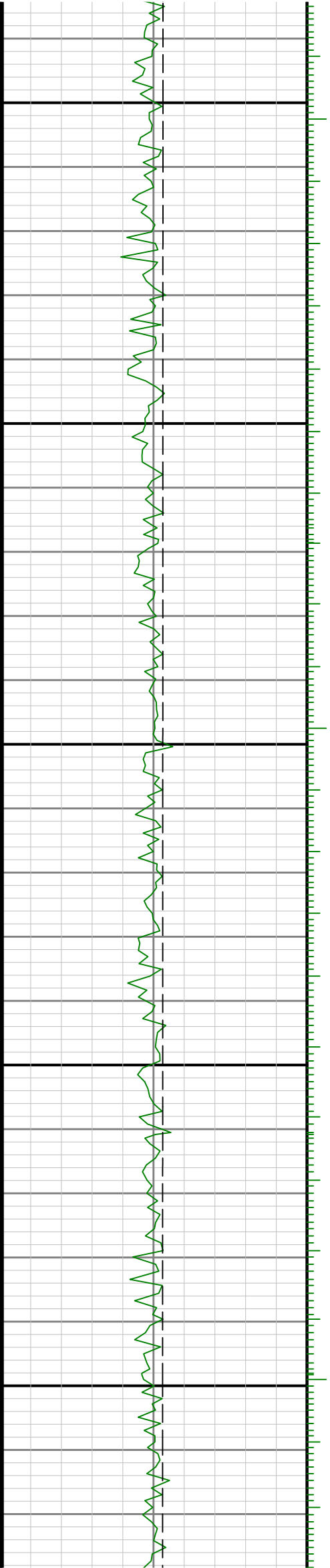


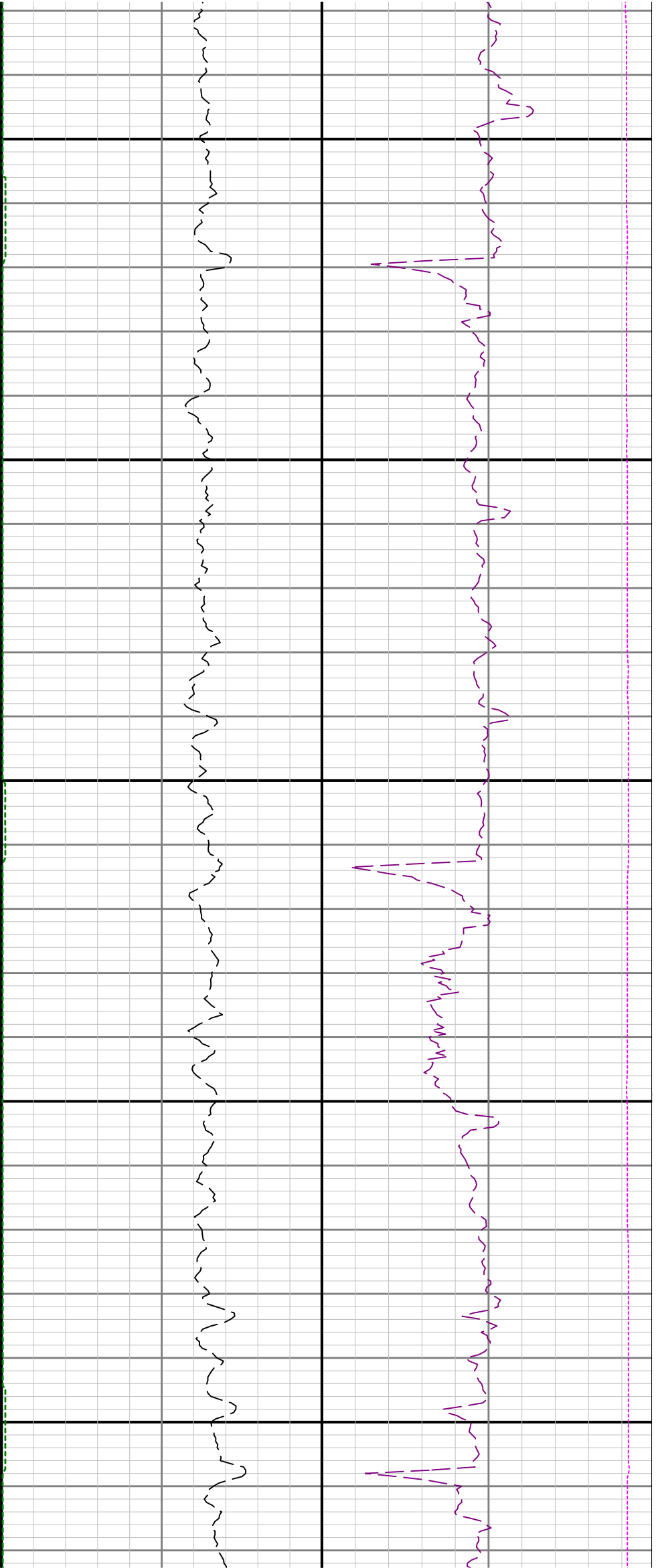




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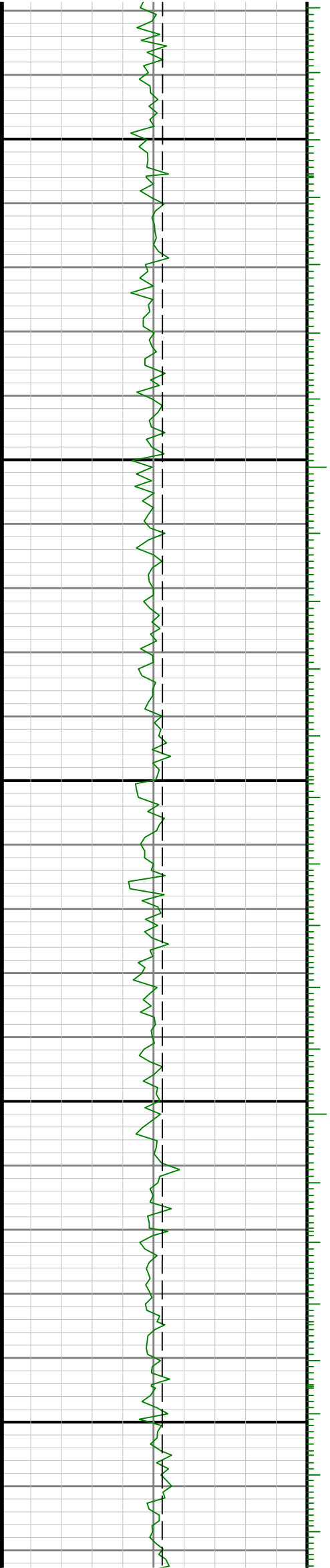


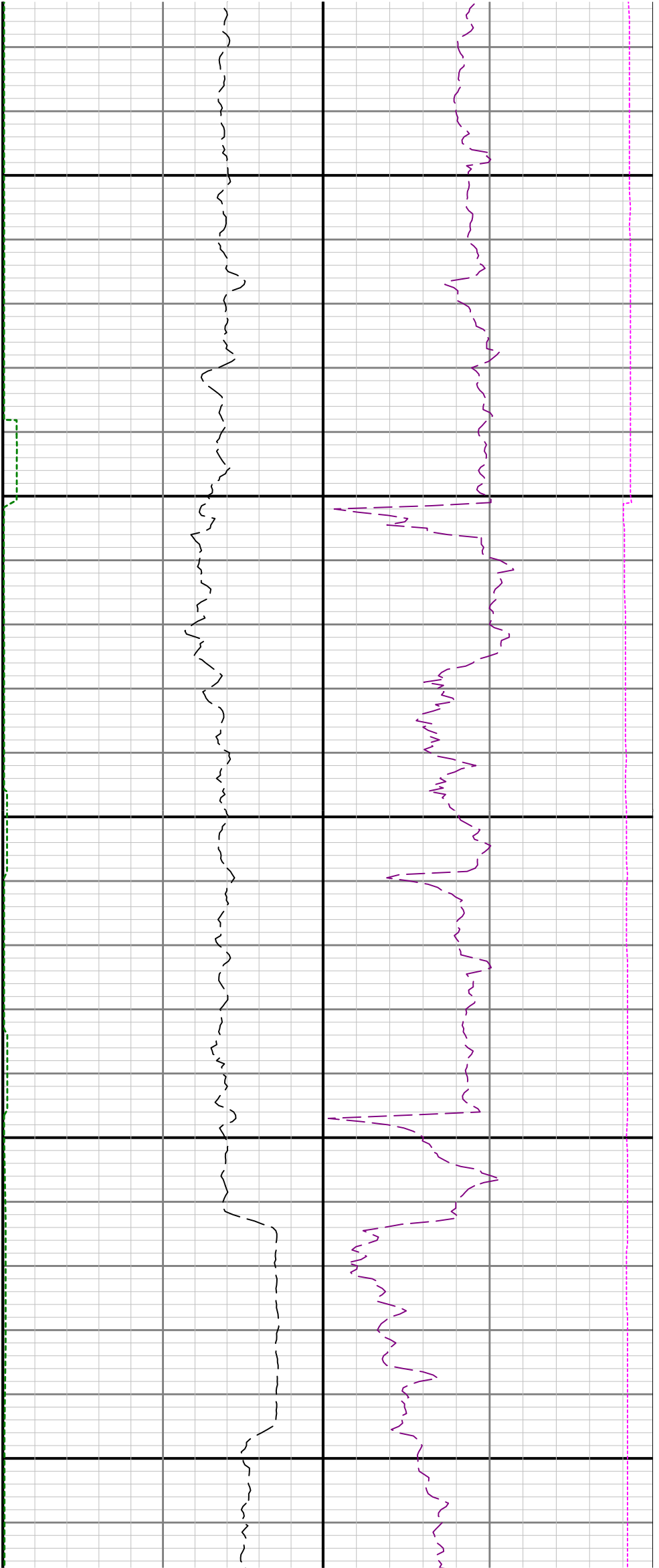


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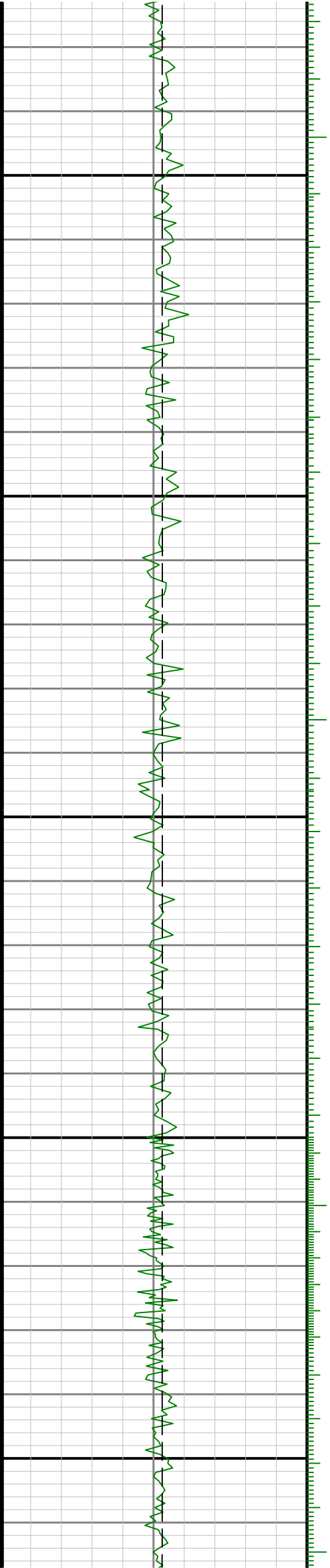
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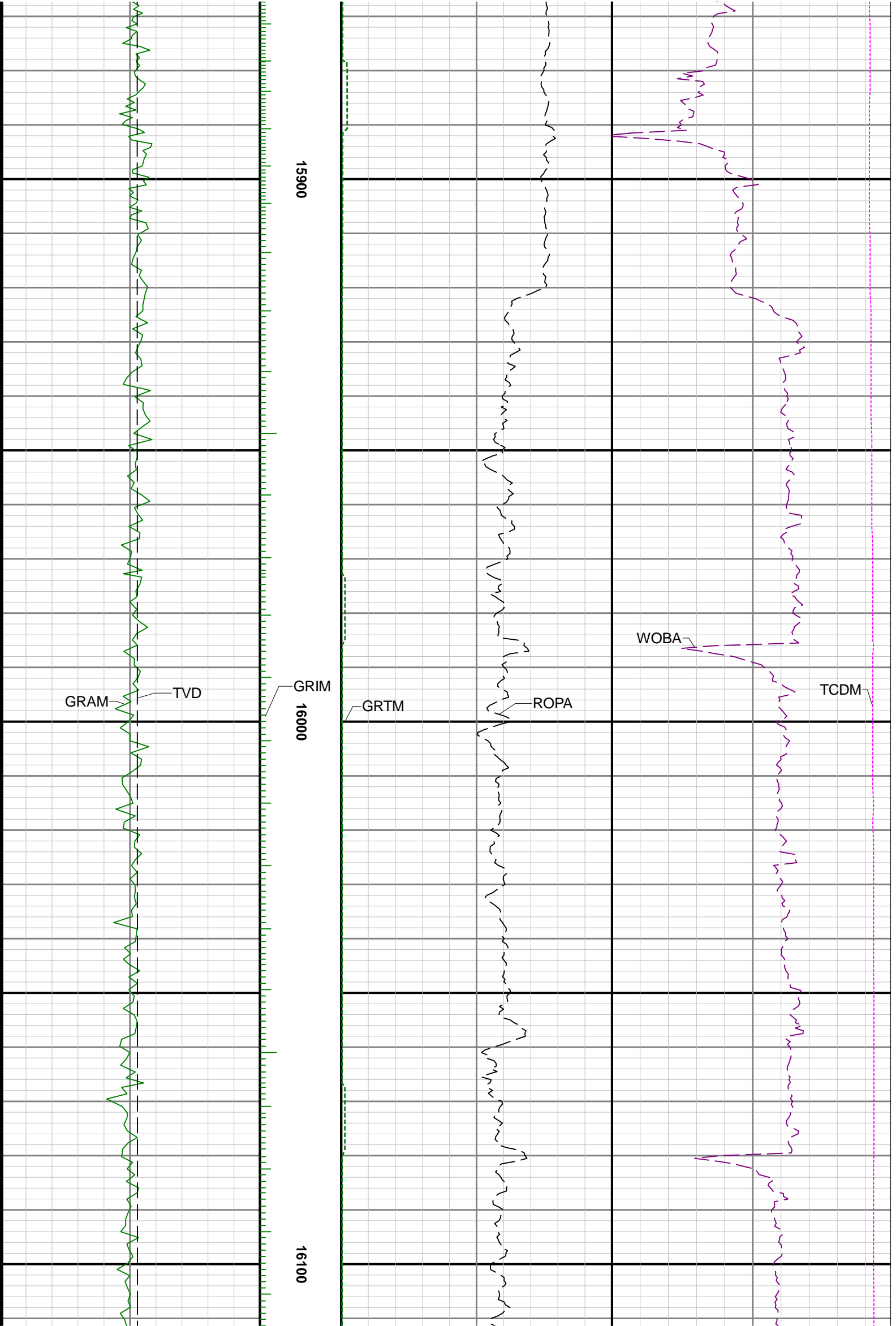


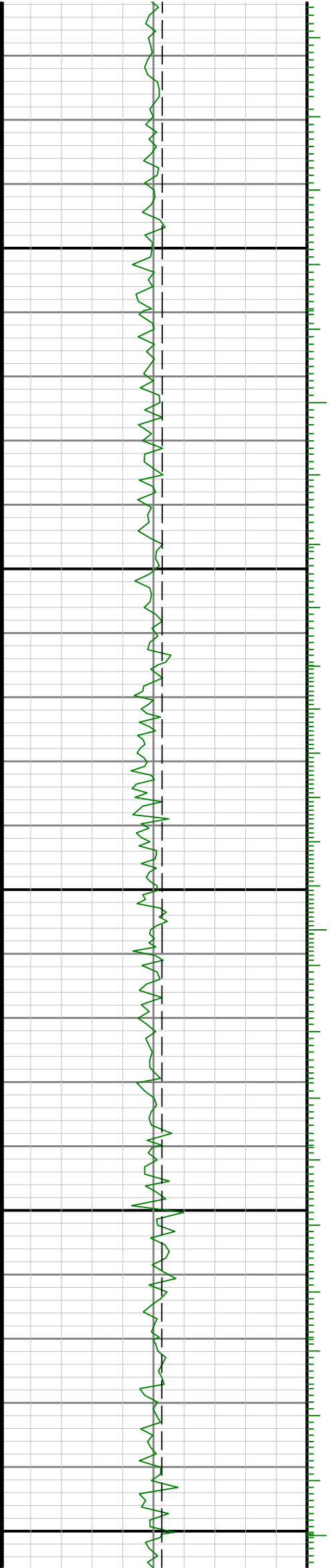
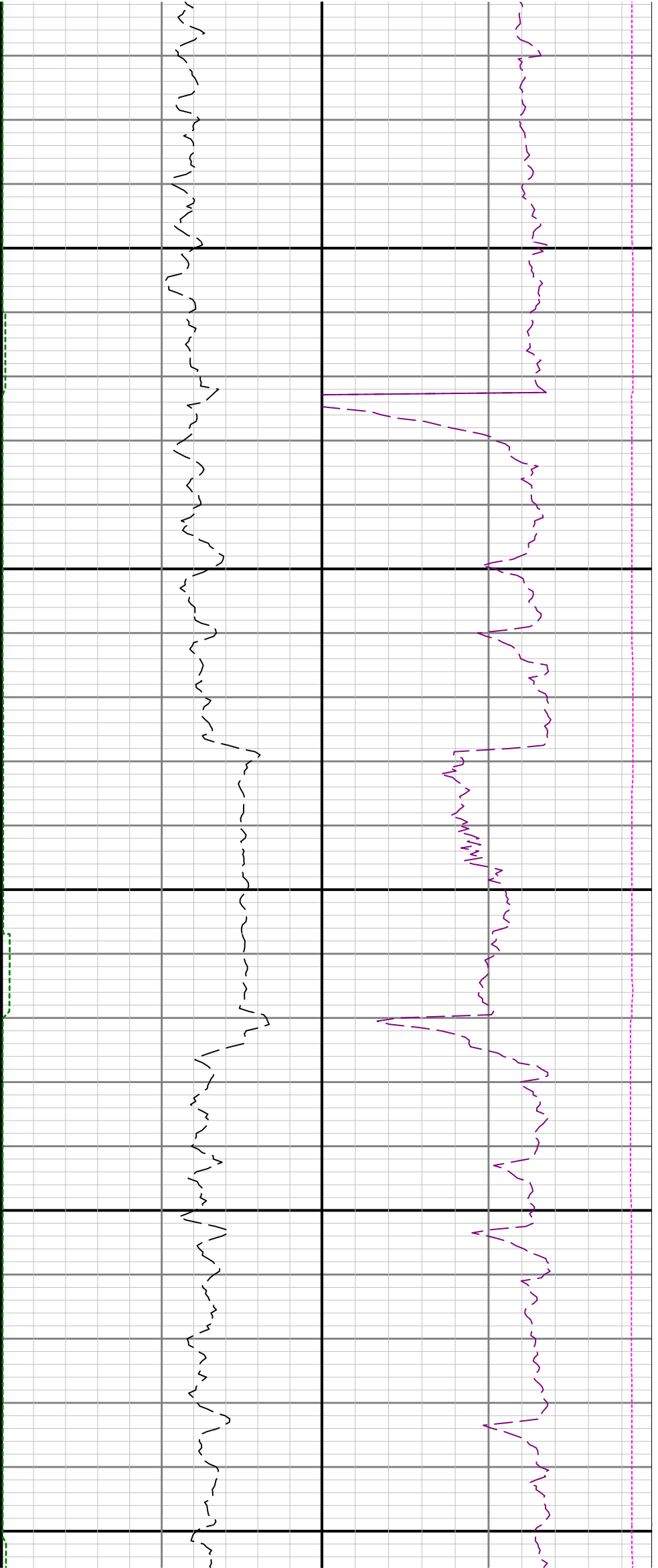


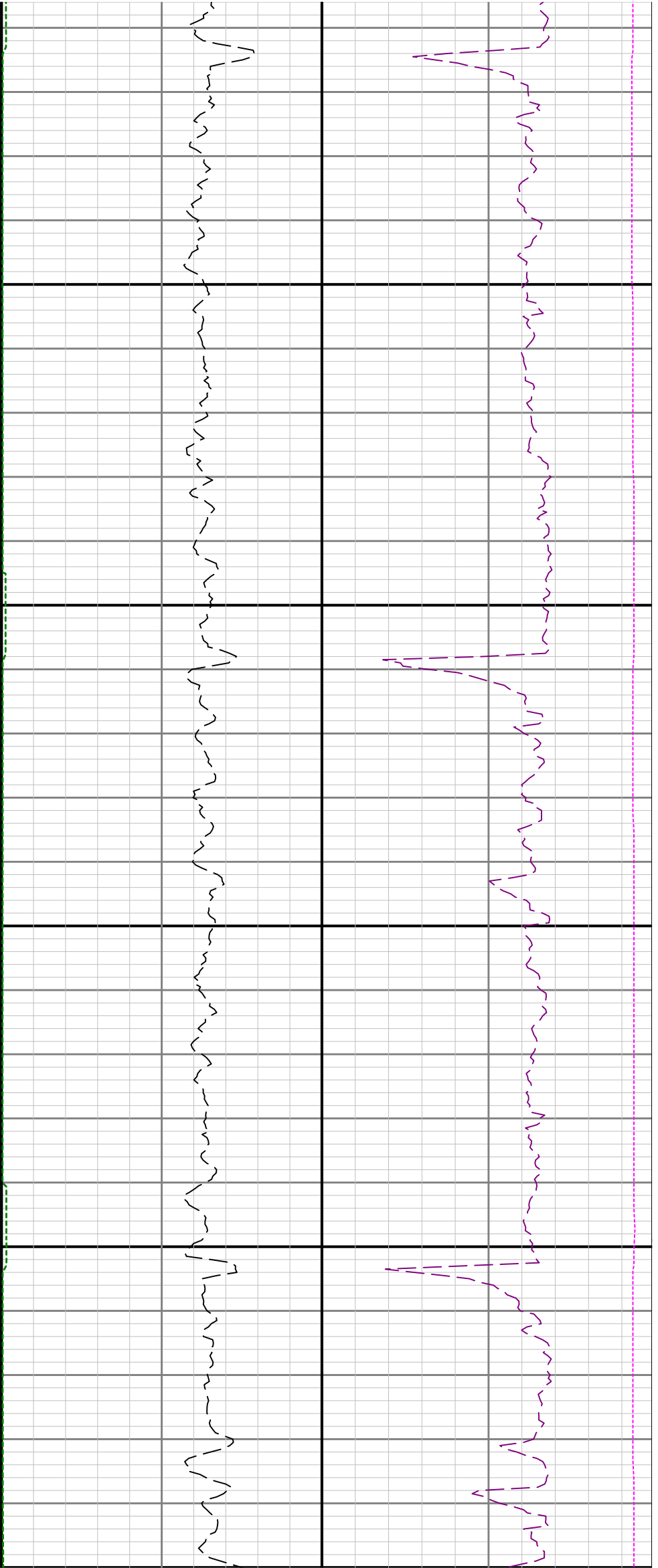
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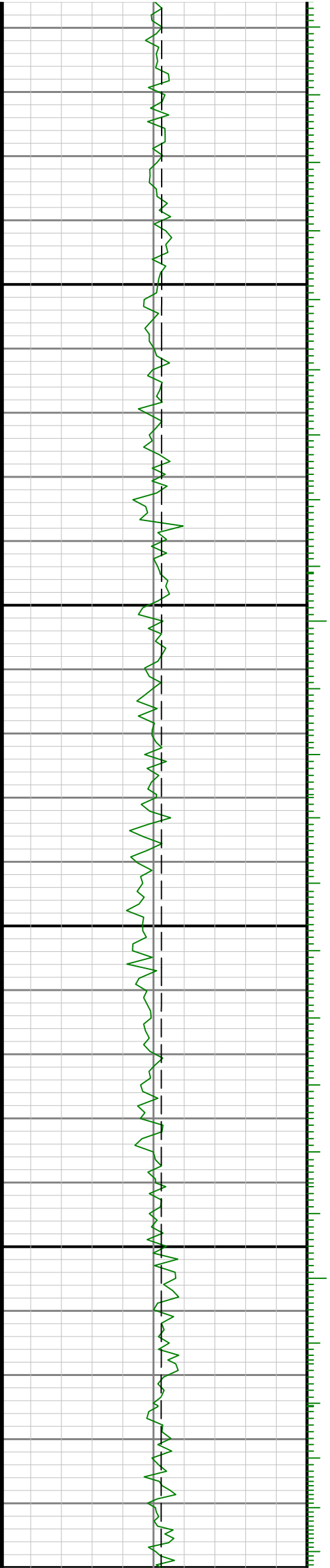


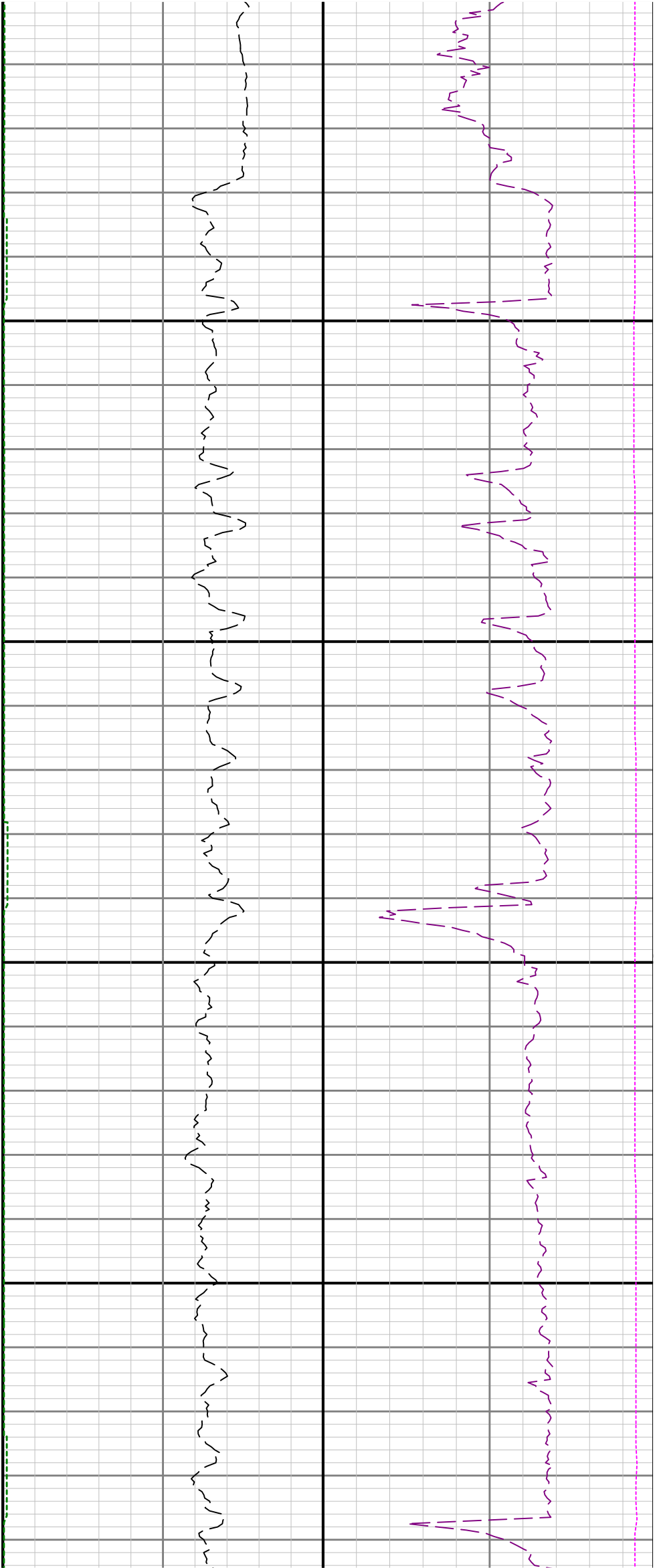


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