

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
John Moisan	2018-04-15	2018-04-16	John Bryson	2018-04-16	2018-04-18			

Mud Properties Record

Date / Time	Run No.	Measured Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2018-04-15 14:06	2	1841.00	Diesel-Oil Based Mud	9.5	28	N/A	28.0	80/20	Active Pit	40000	0.00
2018-04-16 03:30	2	3513.00	Diesel-Oil Based Mud	9.5	21	N/A	28.0	79/21	Active Pit	32500	0.00
2018-04-16 14:30	2	6802.00	Diesel-Oil Based Mud	9.7	21	N/A	30.0	79/21	Active Pit	36000	0.00
2018-04-17 03:30	2	9539.00	Diesel-Oil Based Mud	9.7	24	N/A	26.0	79/21	Active Pit	38000	0.00
2018-04-18 03:30	2	14995.00	Diesel-Oil Based Mud	9.6	22	N/A	22.0	80/20	Active Pit	39000	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	Sensor Sub	ZAPS230949	VSS	12.17	61.94	8.000	3.250
1	Sensor Sub	ZAPS230949	Directional (mag)	12.17	61.94	8.000	3.250
1	Sensor Sub	ZAPS230949	Pressure	32.77	82.54	8.000	3.250
2	ATC_SU	11995000	Near Bit Inclination	5.93	6.73	7.000	4.330
2	ATC_SU	11995000	Near Bit VSS	5.93	6.73	7.000	4.330
2	ATC_MWD	12127524	Gamma (single)	2.76	12.90	7.000	3.250
2	ATC_MWD	12127524	Directional (mag)	12.28	22.42	7.000	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
GAM	APS	APS EM Module
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

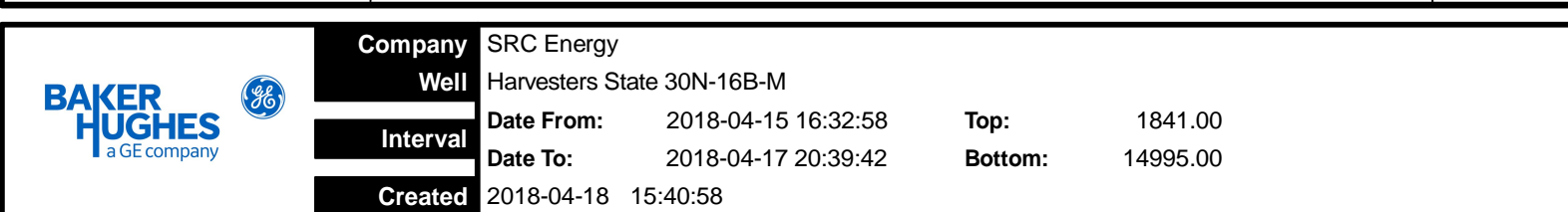
1	Depth measurements obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
2	Baker Hughes LWD Run 1 utilized 8 inch APS EM Services (Directional only) behind a 13 1/2 inch bit and steerable assembly from surface to 1841 feet MD (surface to 1818 feet TVD). No logging data was acquired during this run.
3	Baker Hughes LWD Run 2 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 1/2 inch bit and rotary steerable assembly from 1841 to 14995 feet MD (1818 to 7077 feet TVD).
4	Gamma Ray Curve (GRAM) is presented 0 to 300 API per customer request.

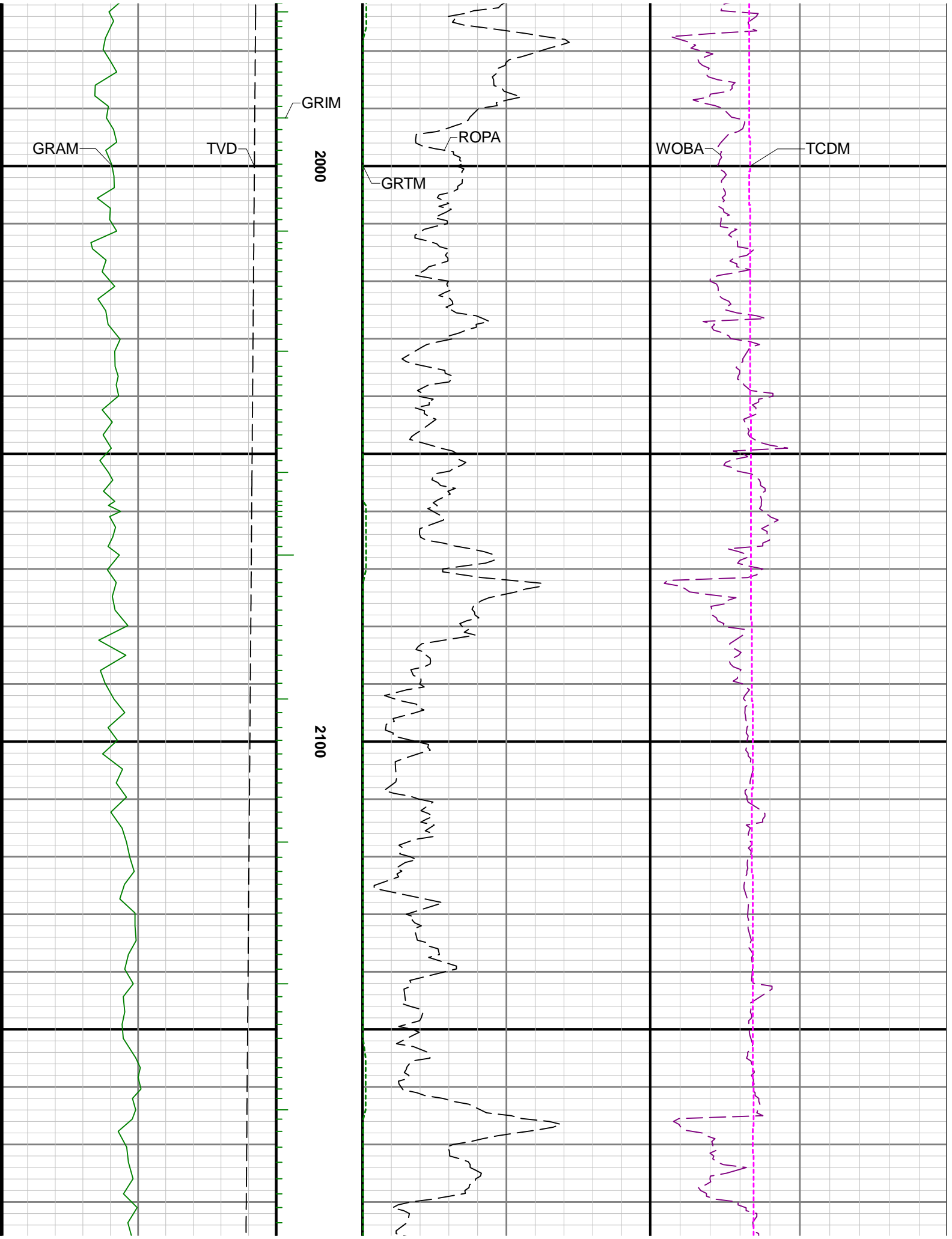
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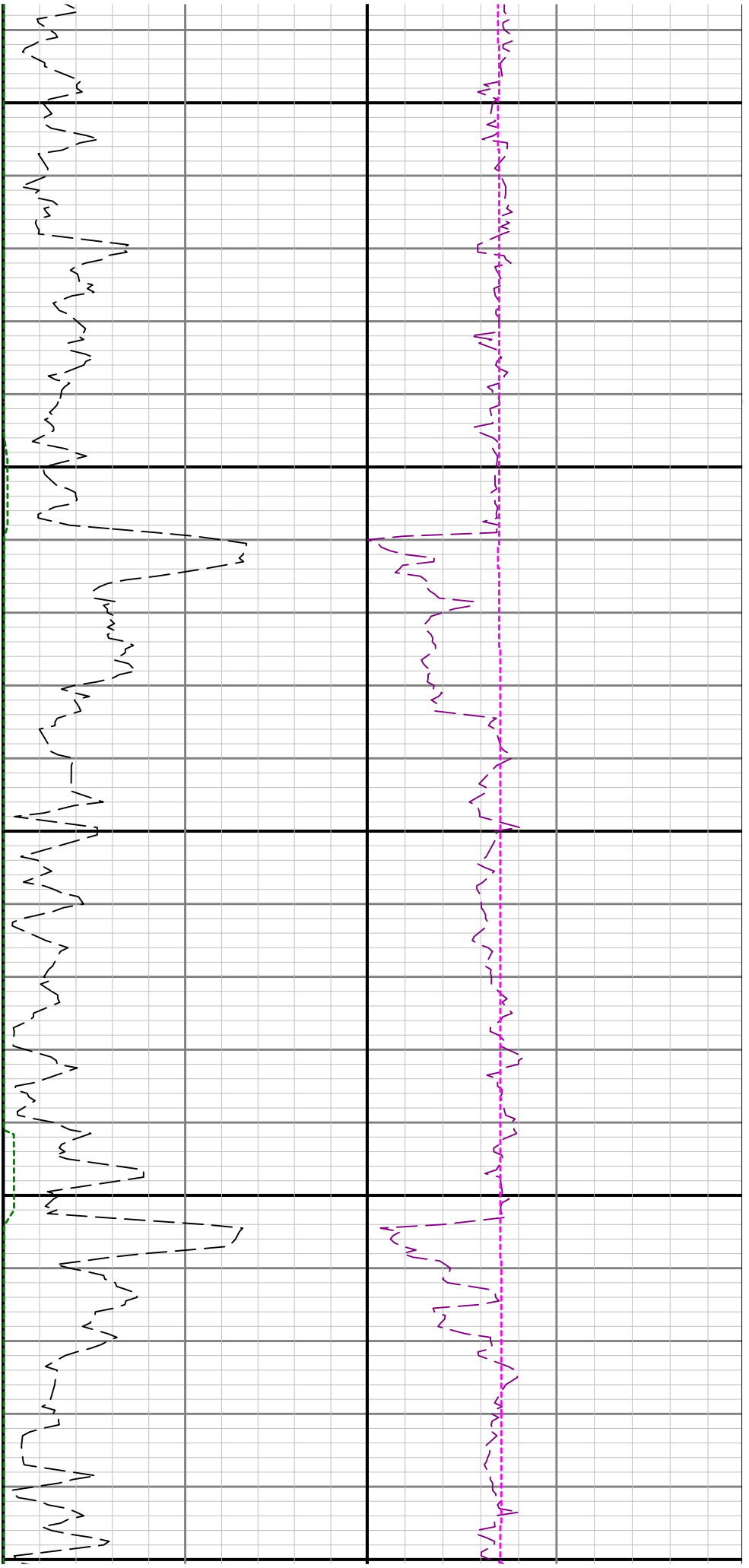
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	14982.00	8.500	2	The interval from 14982 to 14995 feet MD (7077 feet TVD) was not logged due to sensor to bit offset at well TD.

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		API



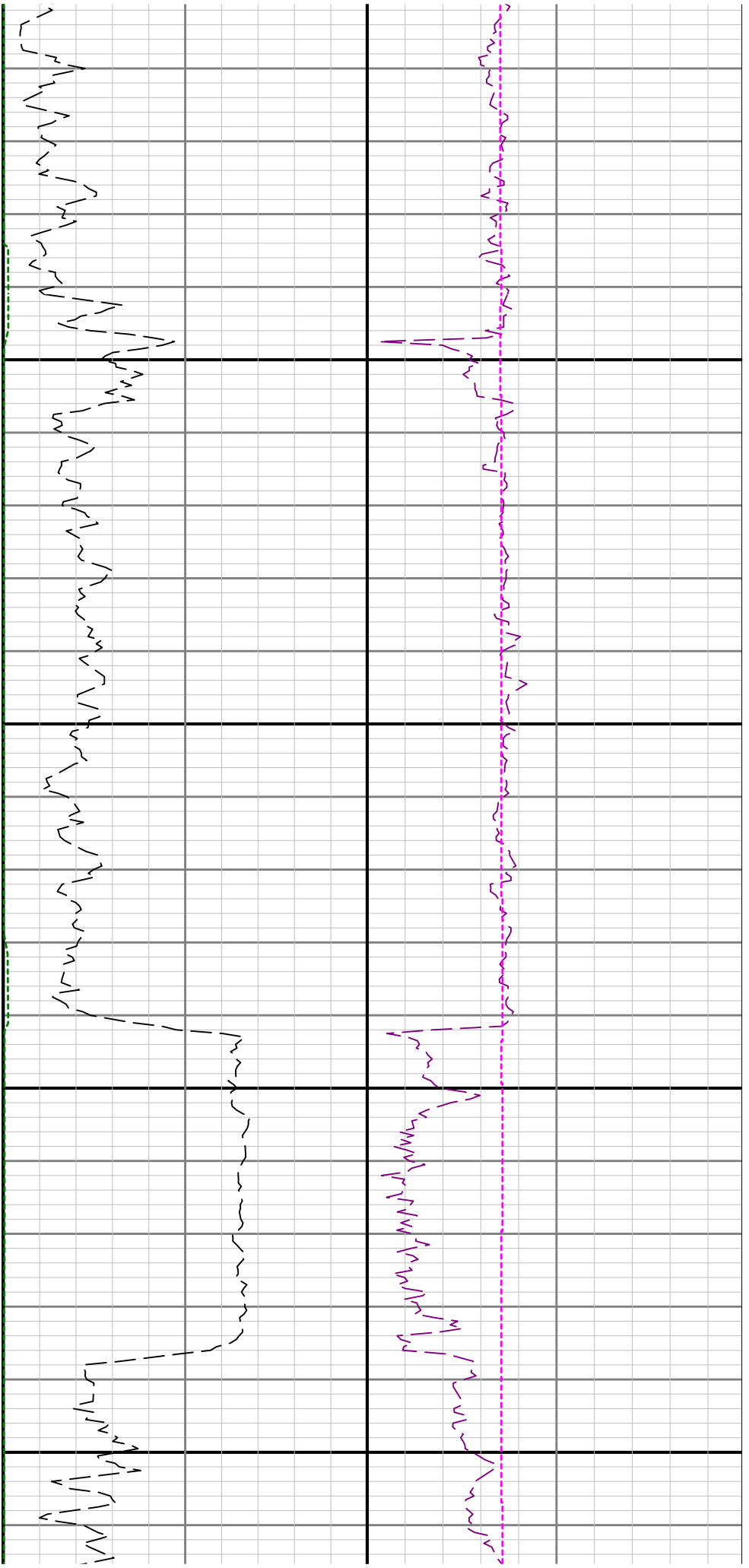




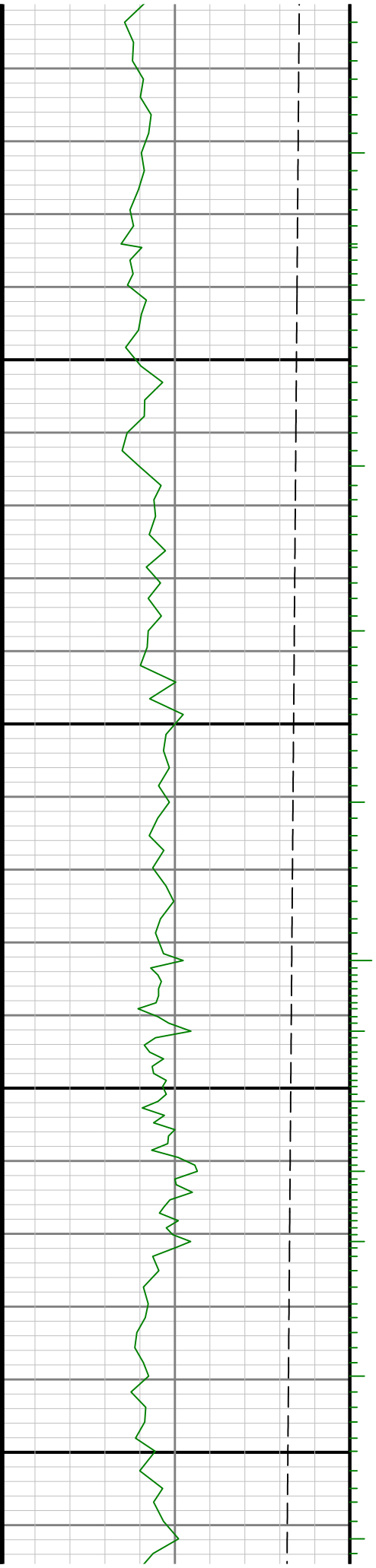
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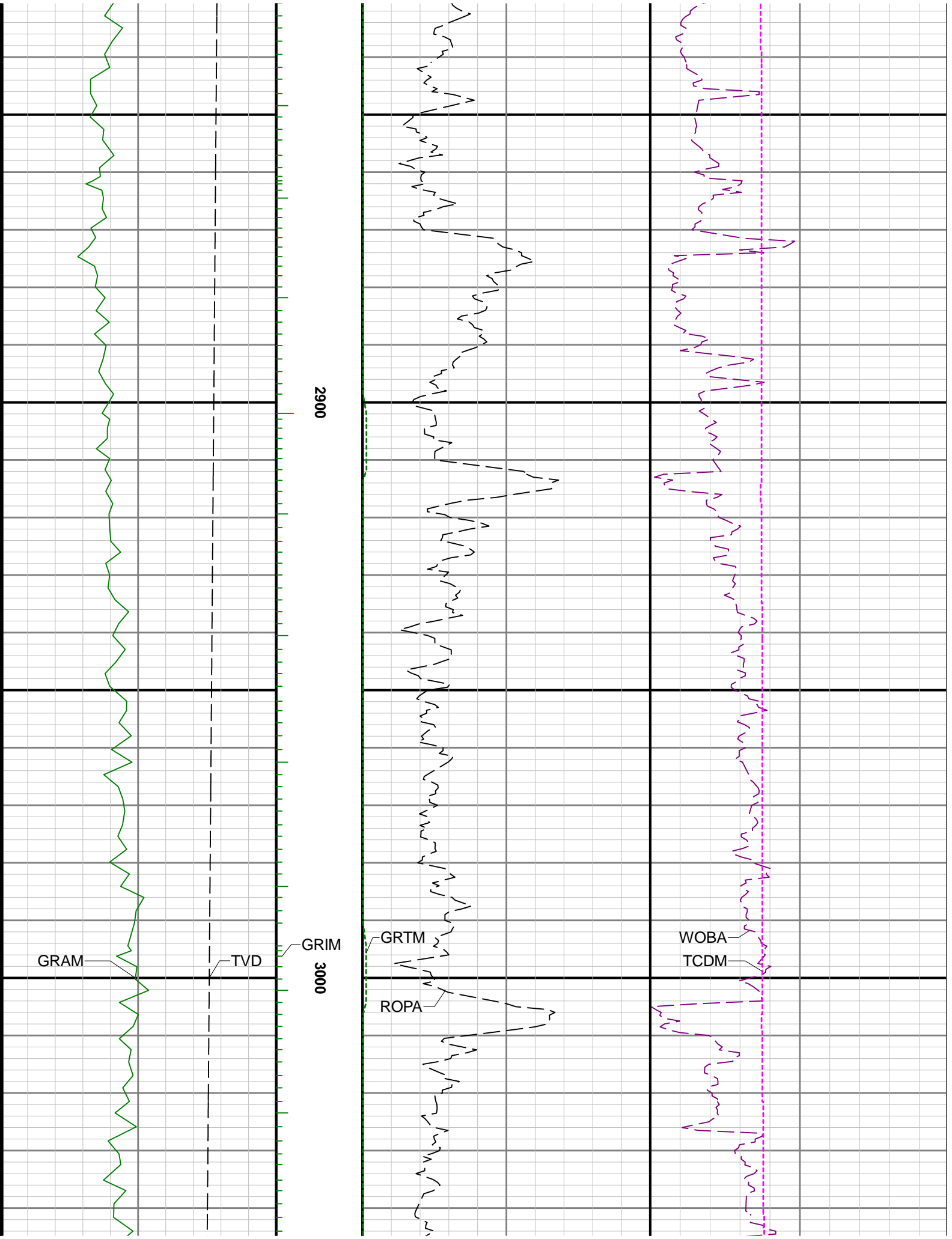
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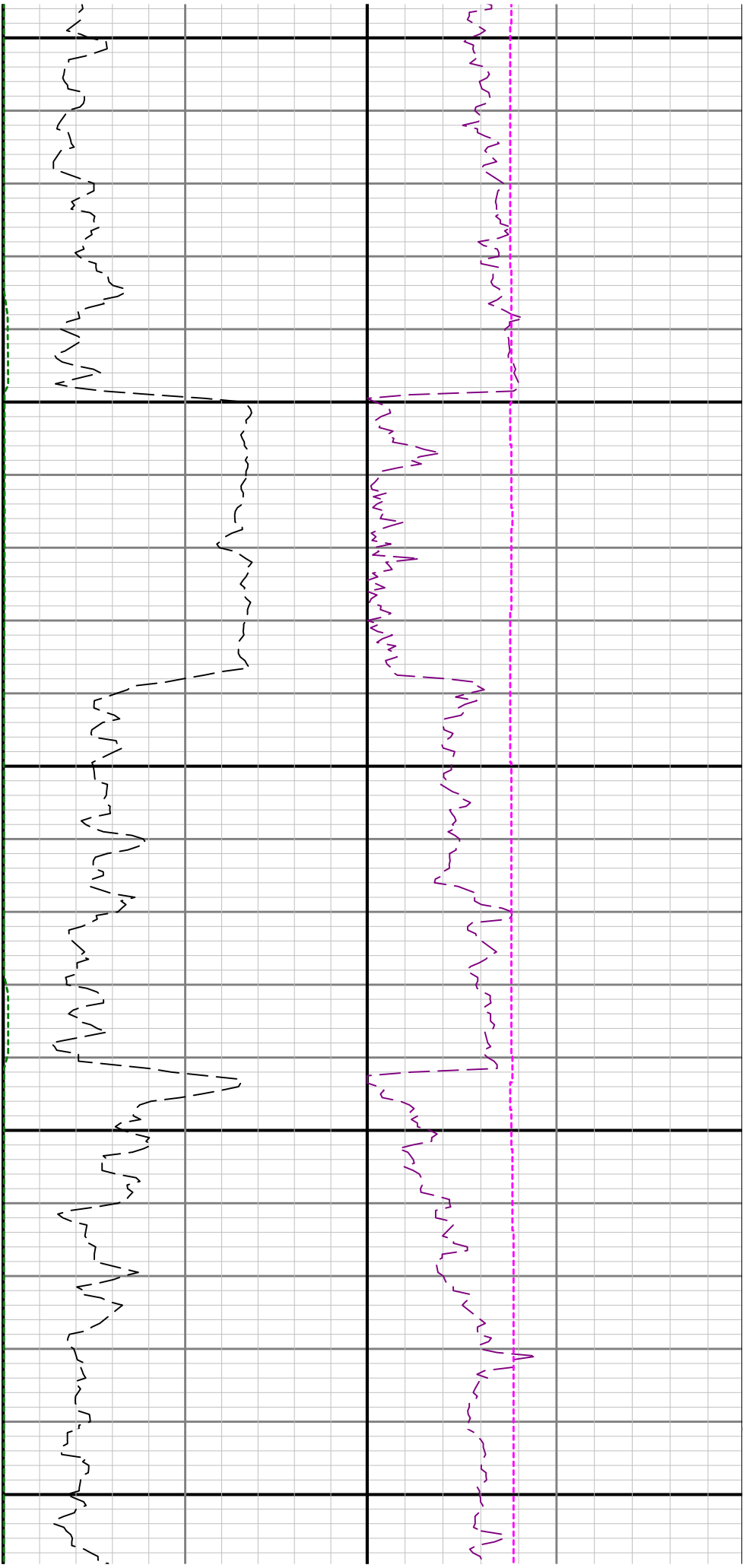
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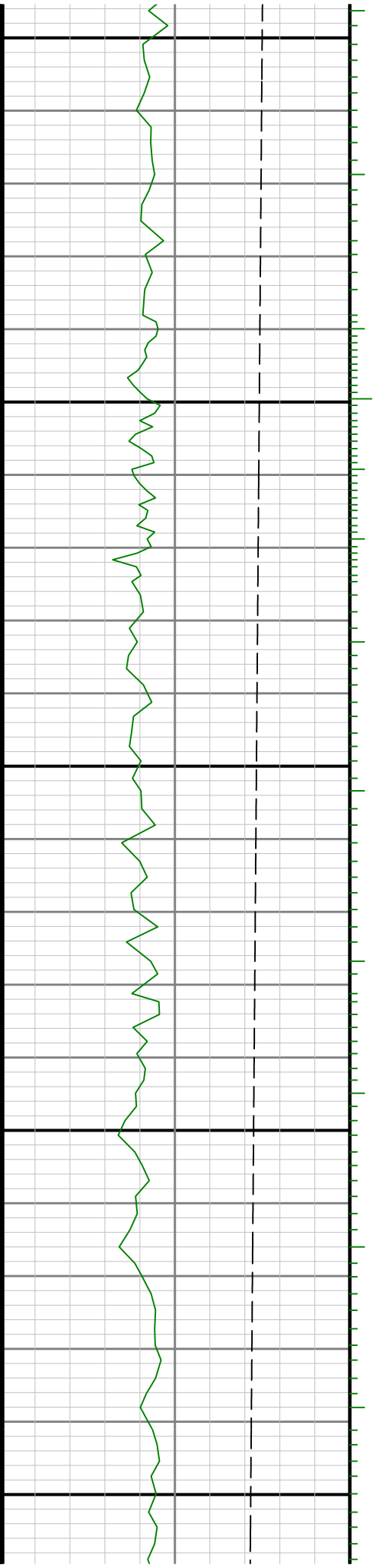


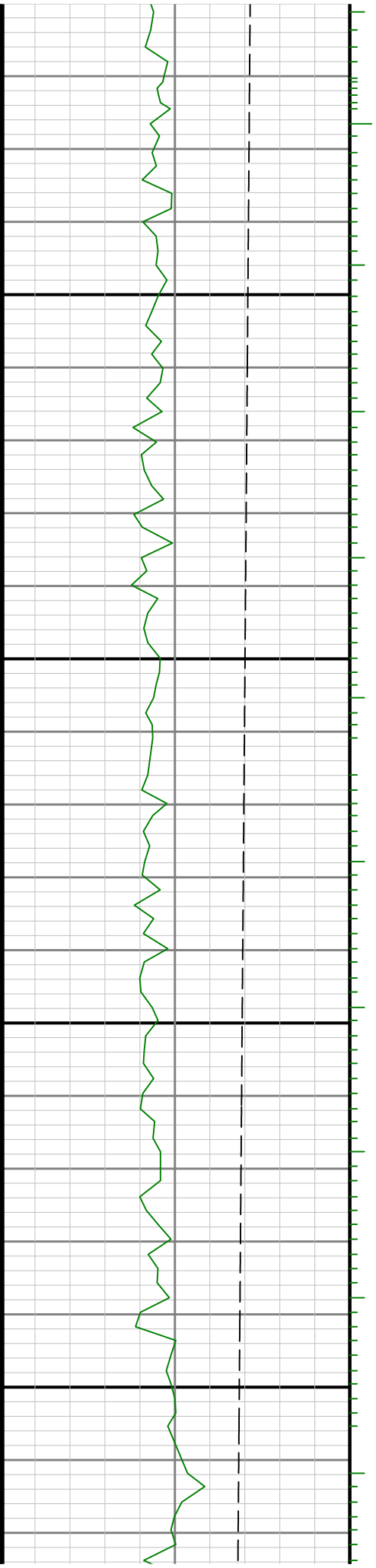
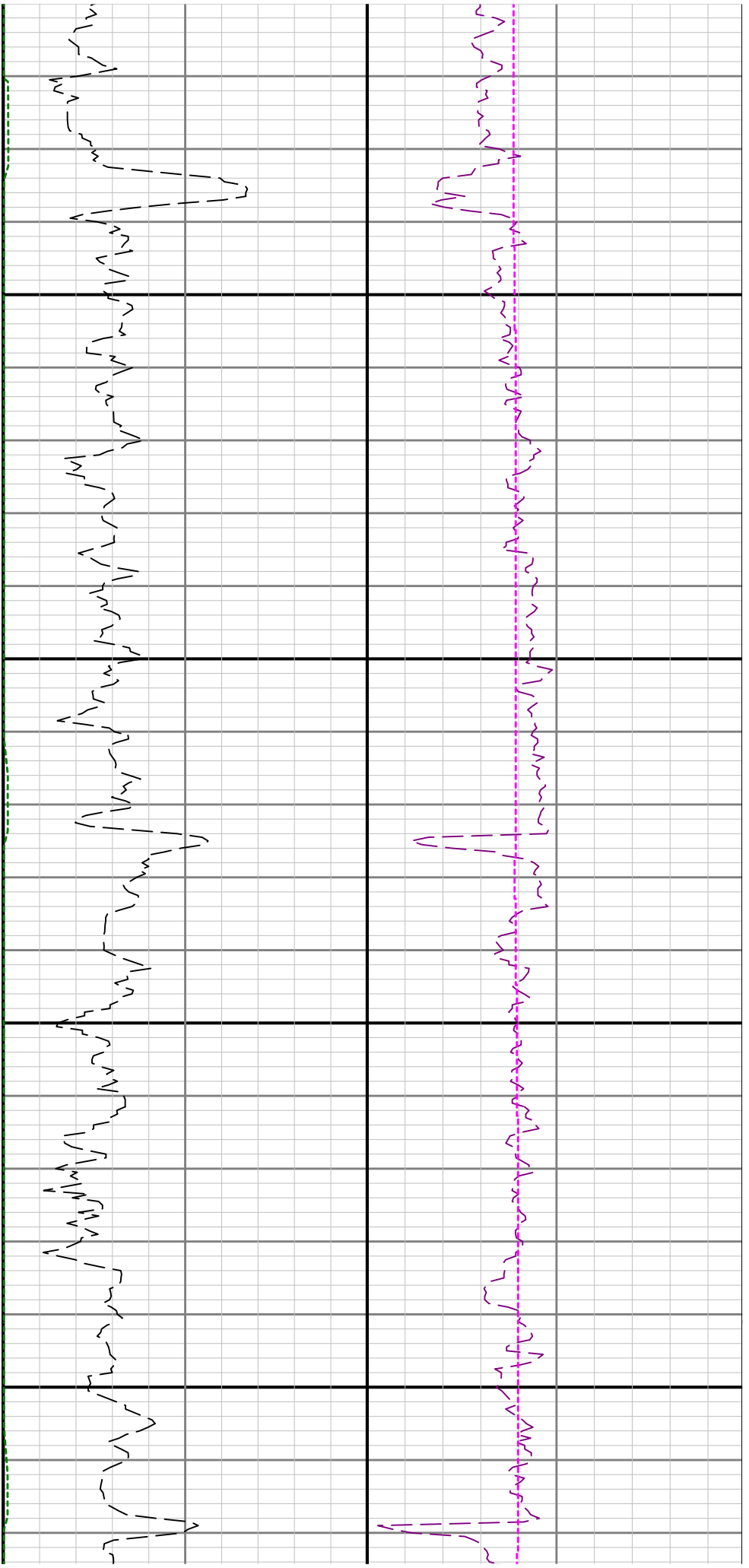


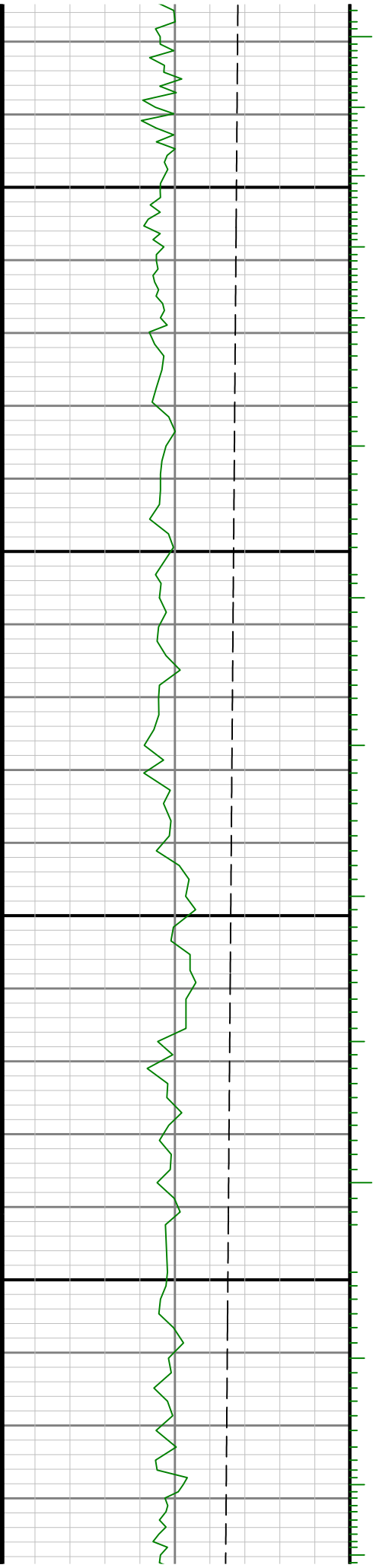
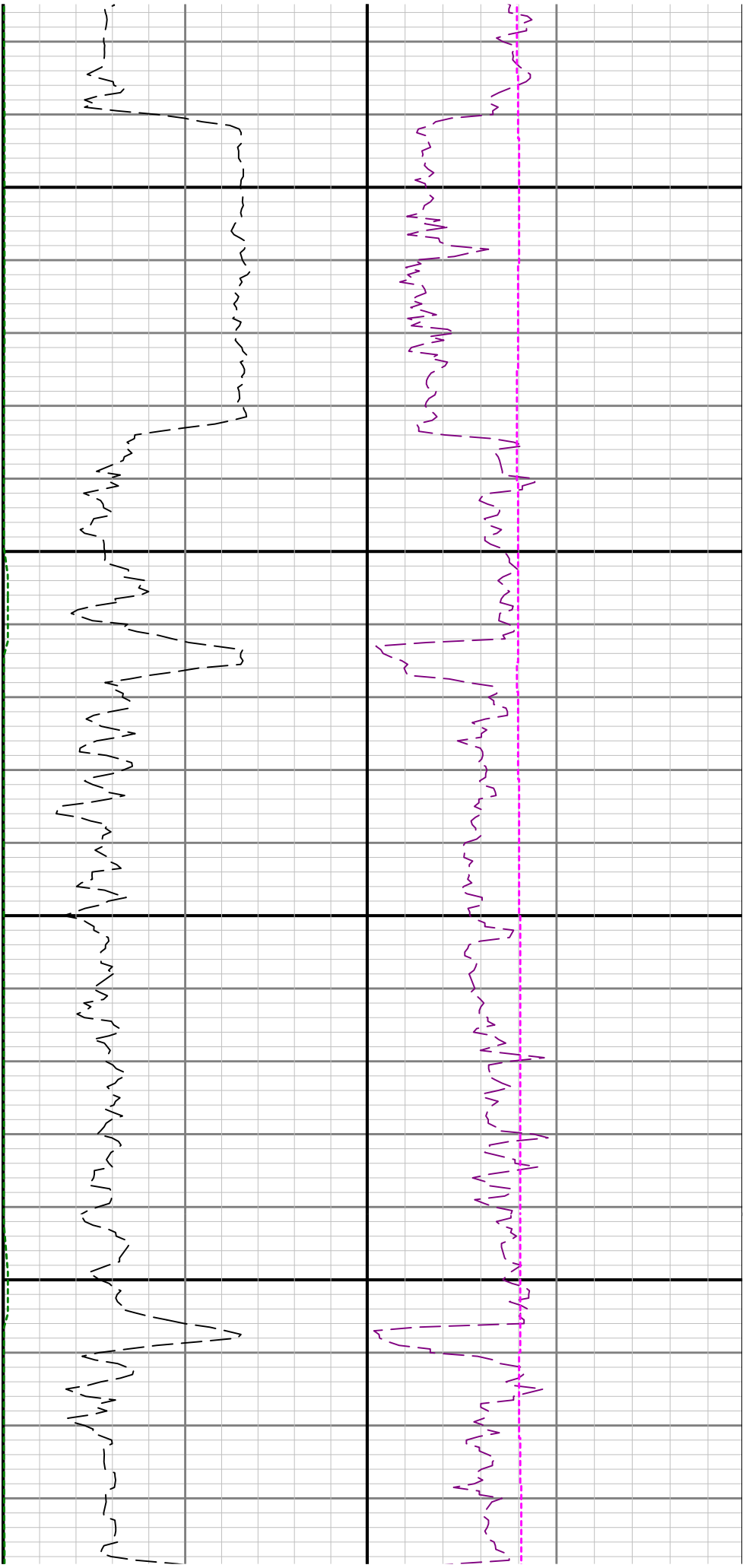


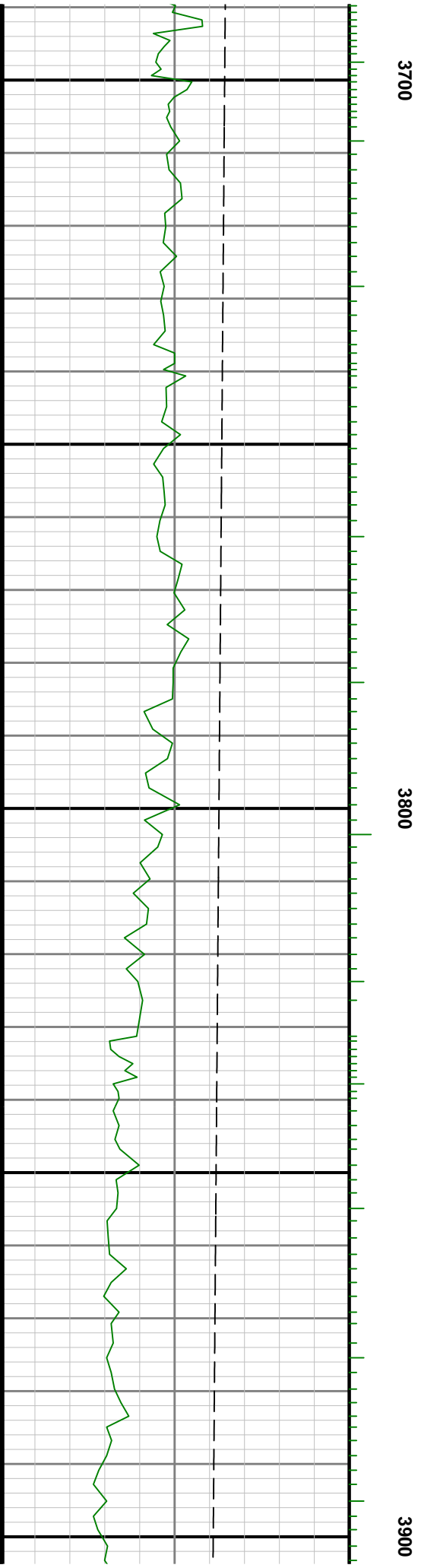
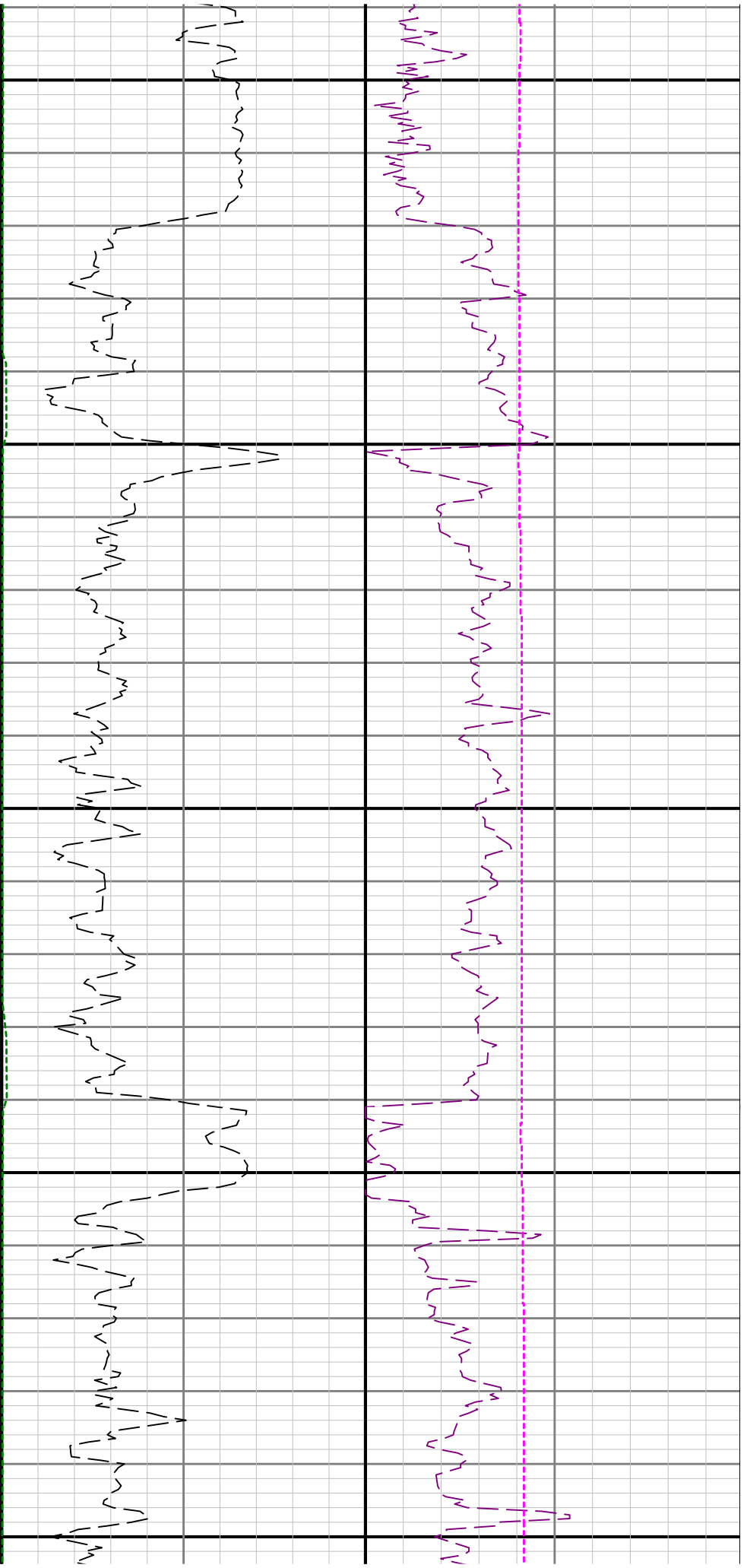
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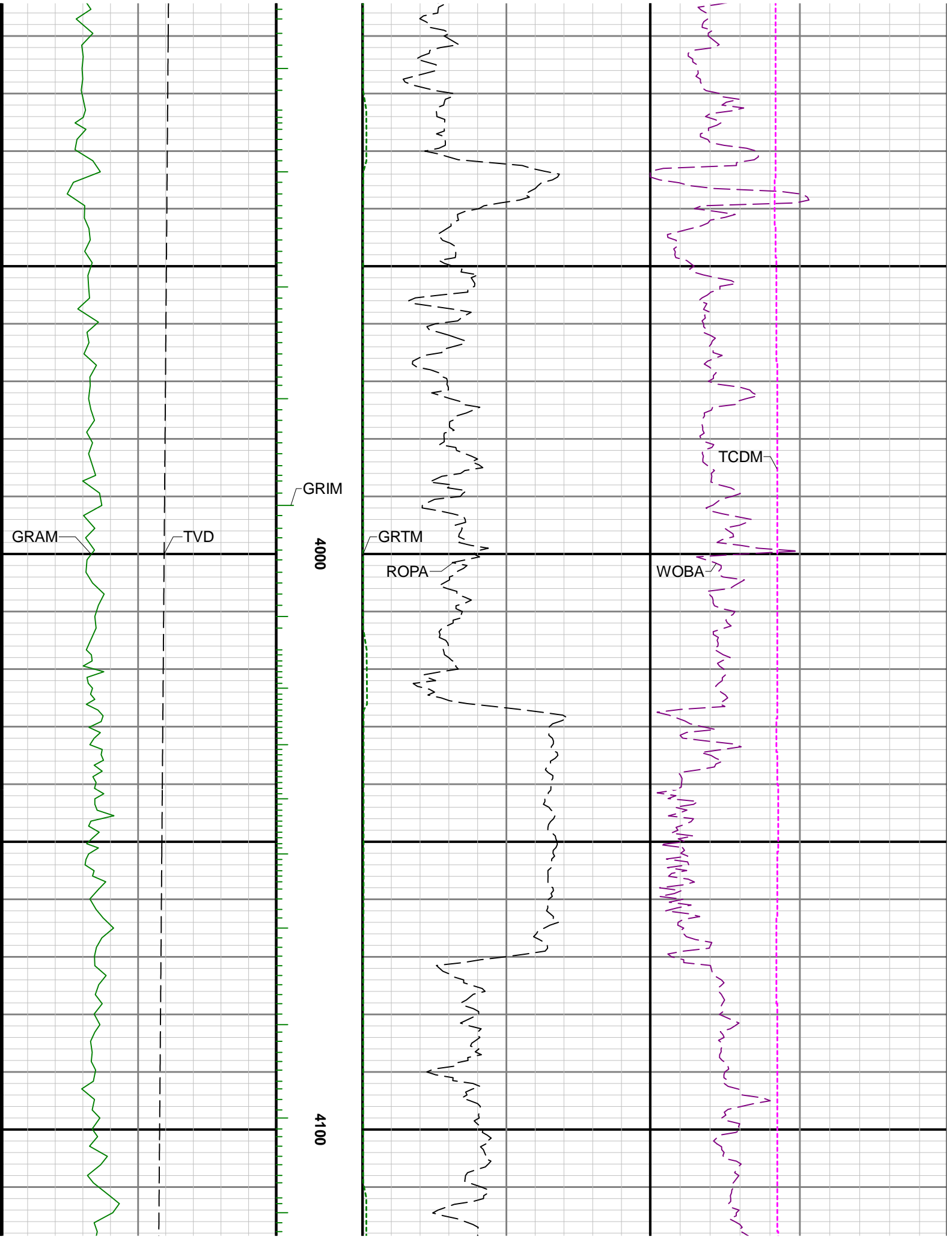
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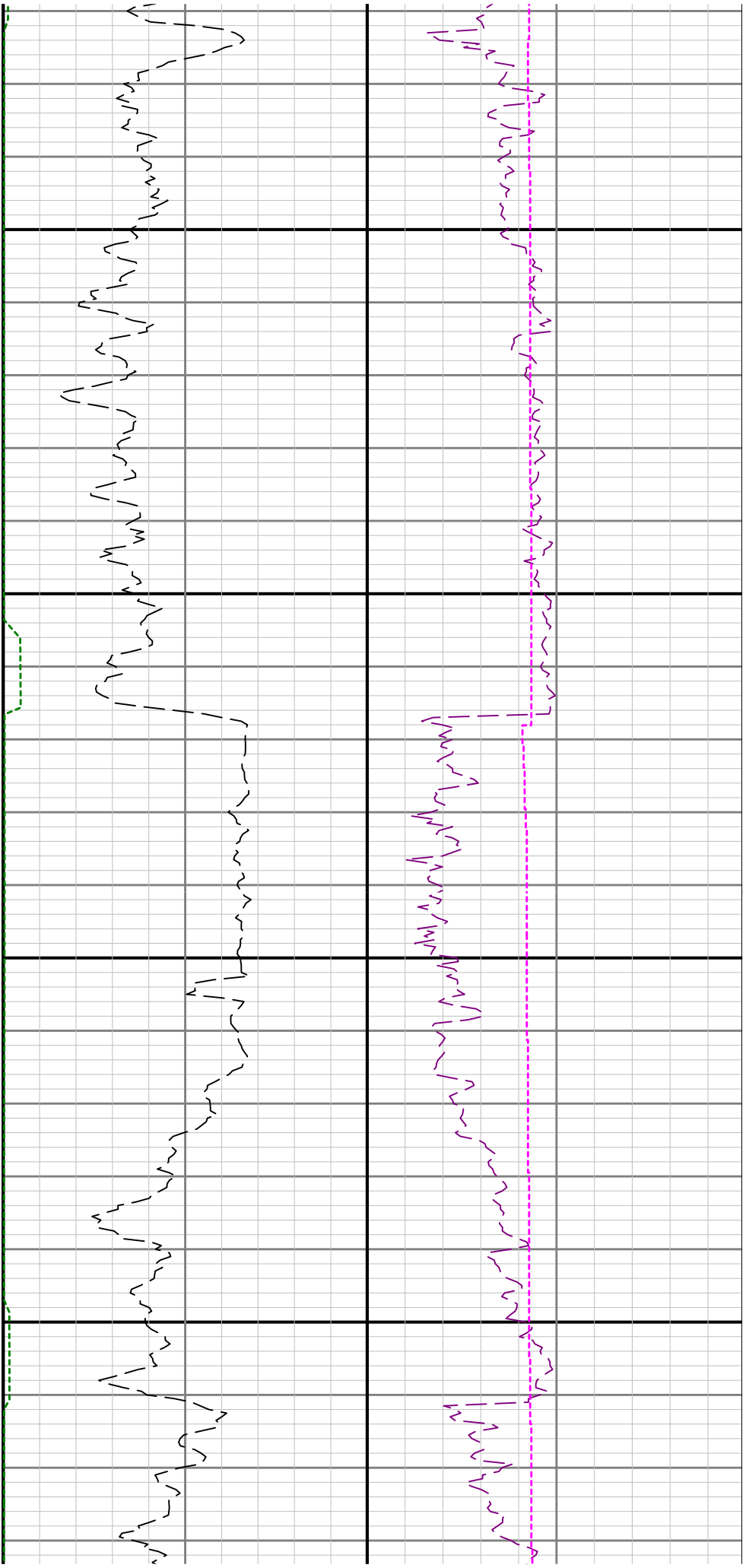






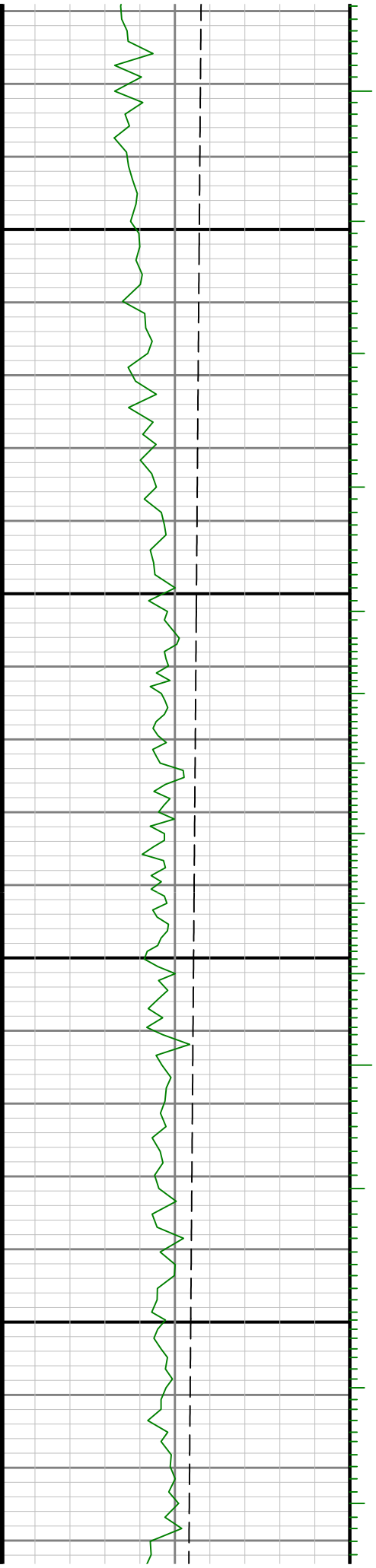


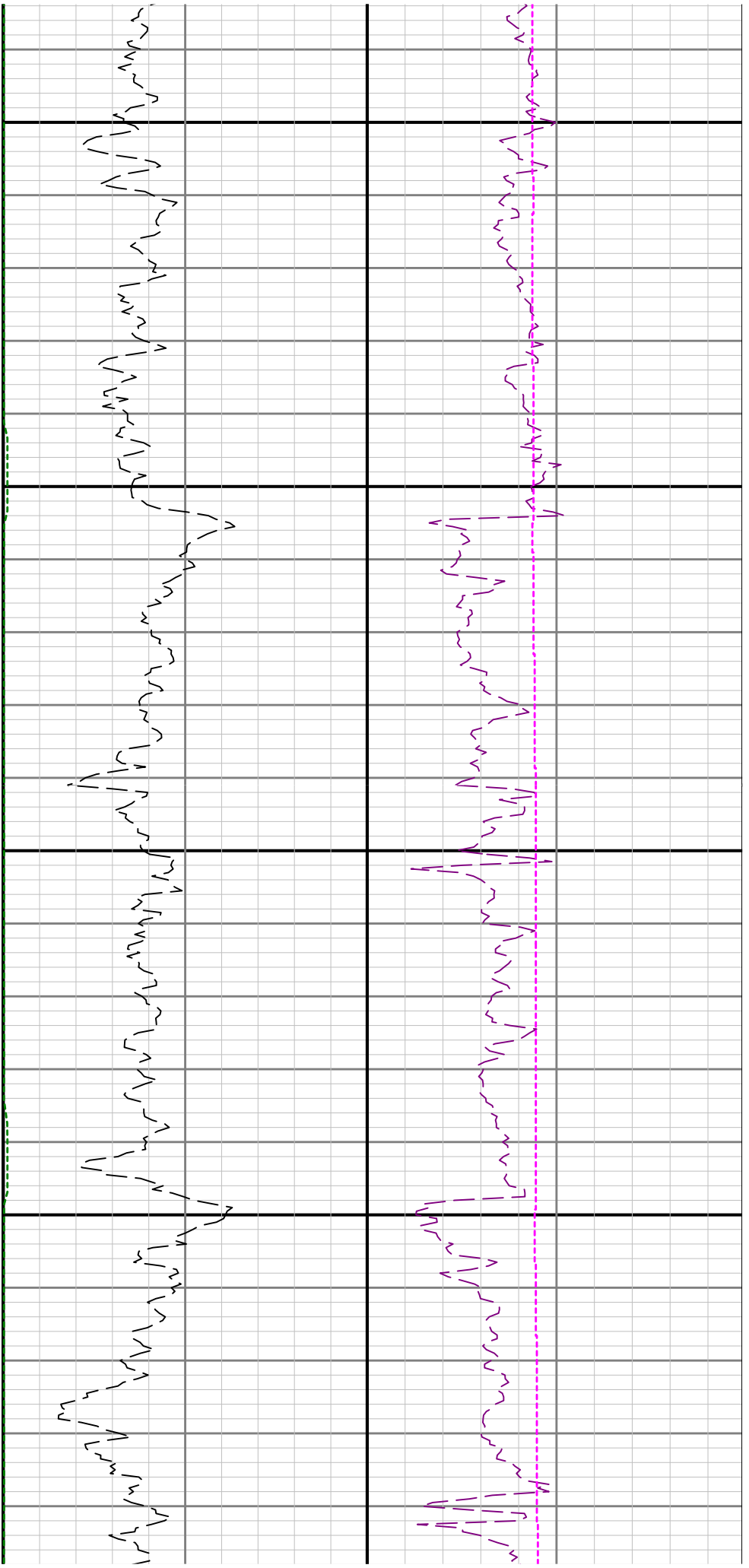




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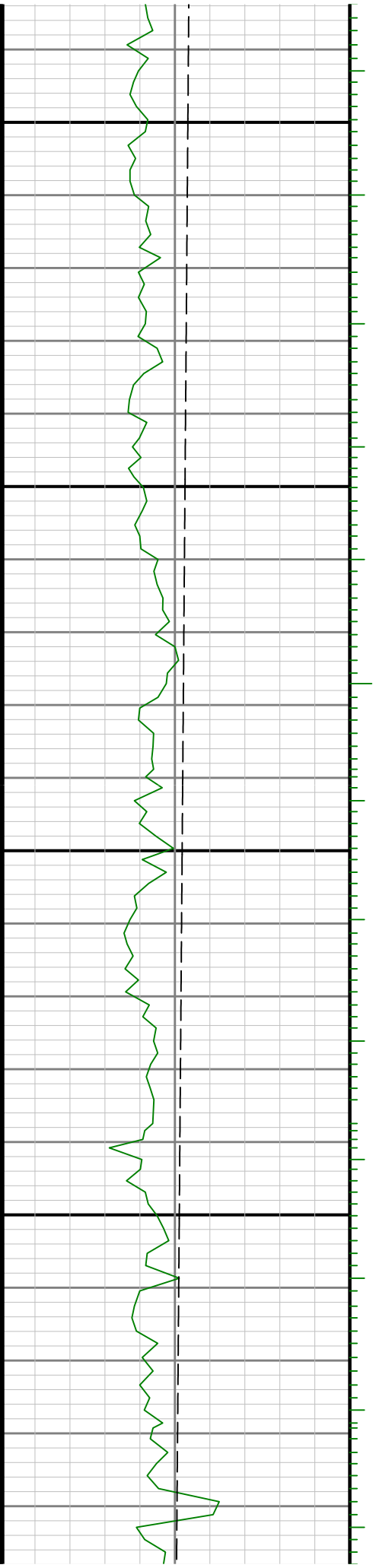
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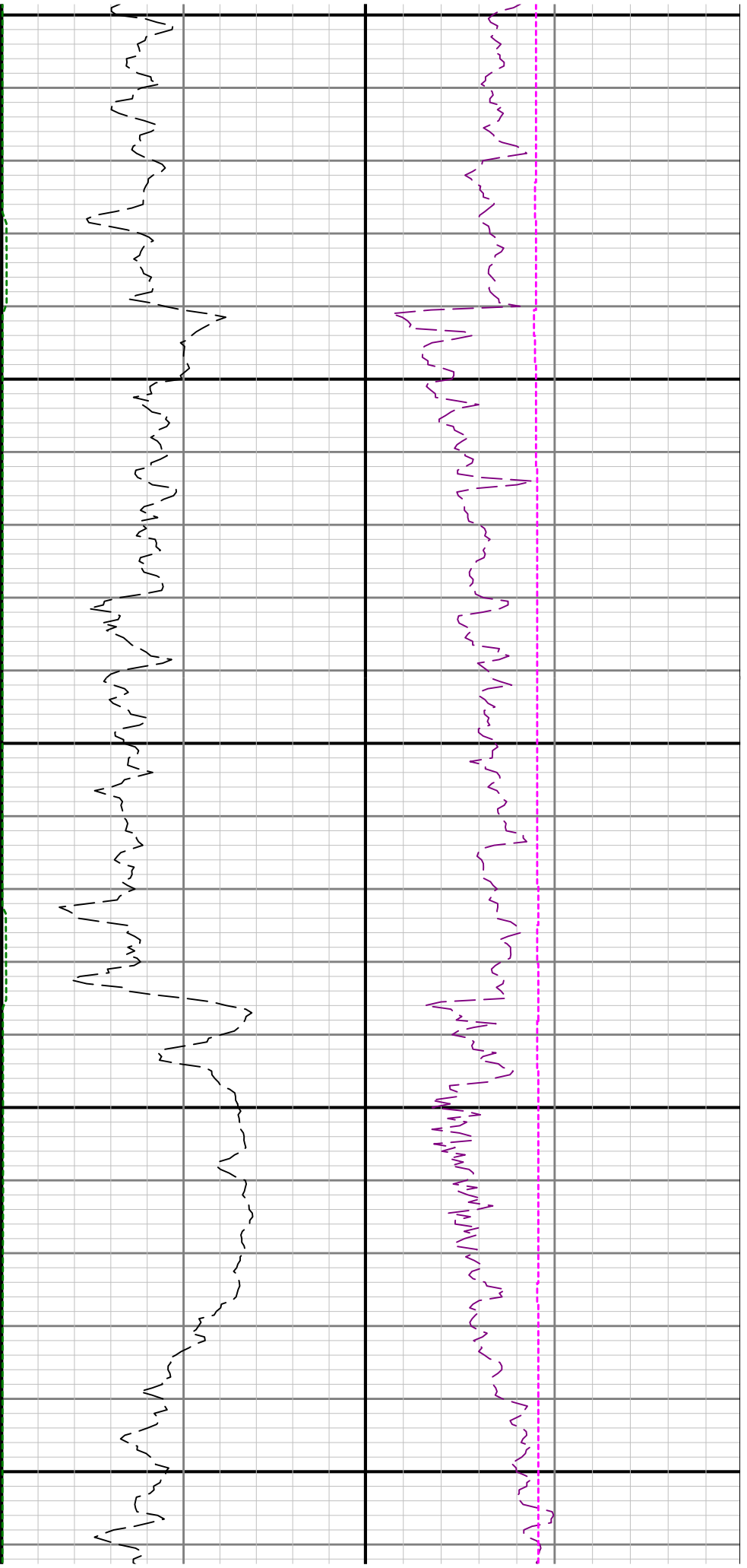




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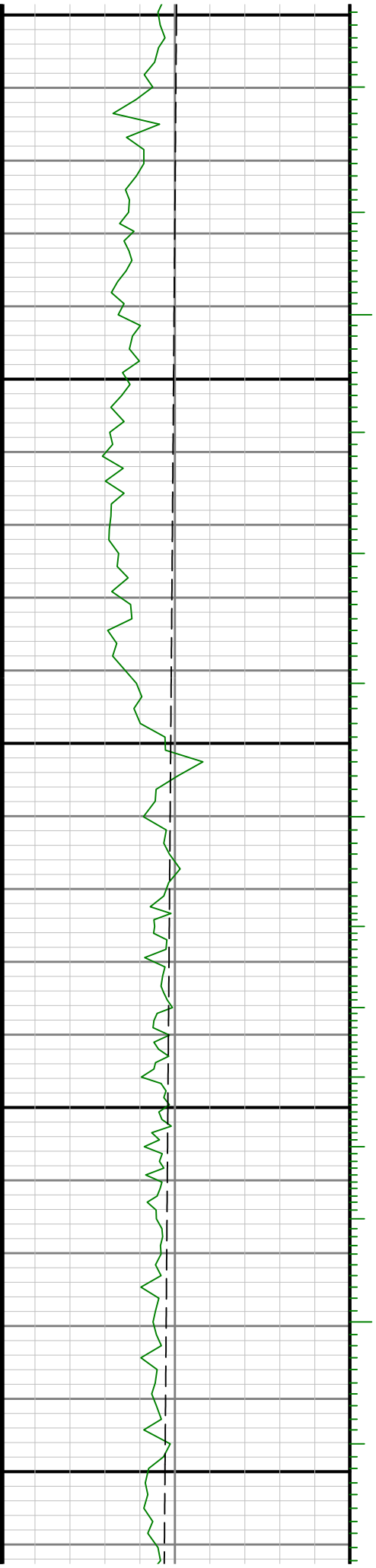
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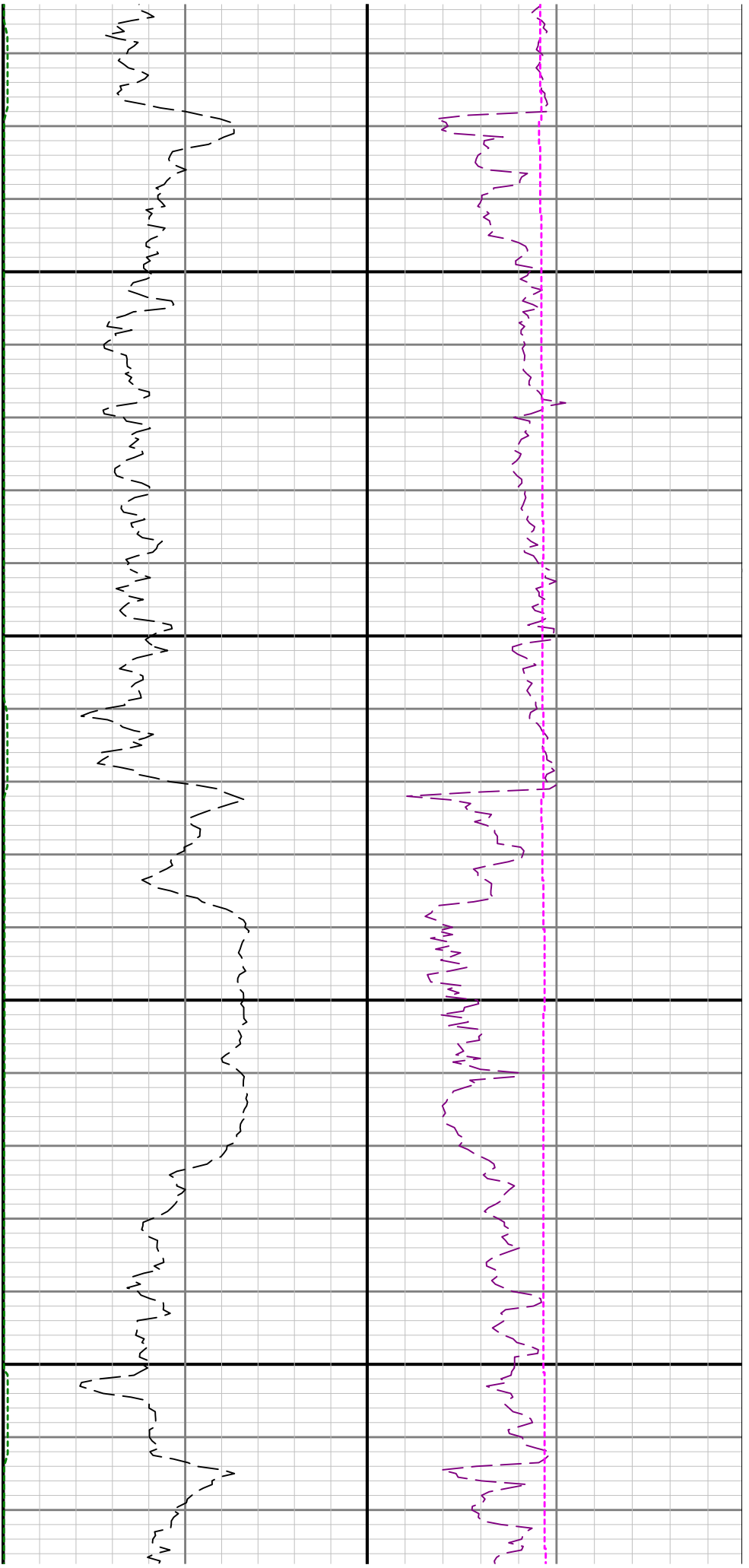




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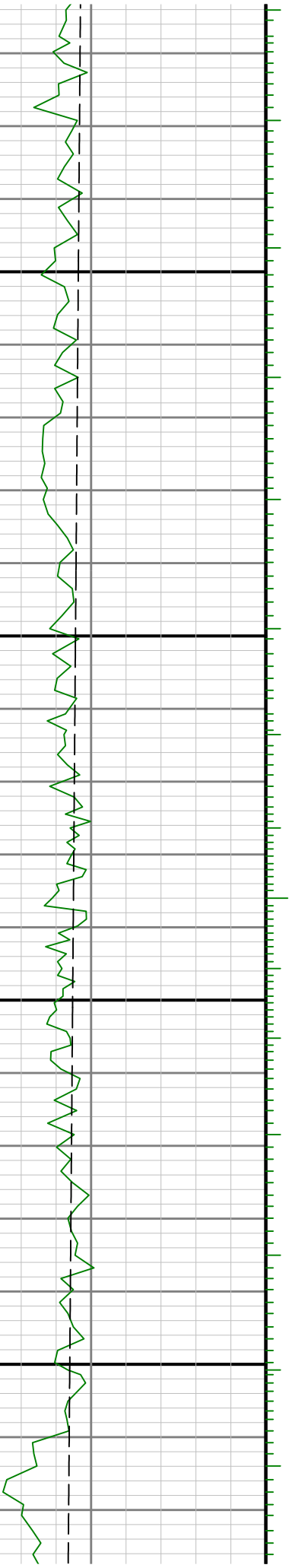
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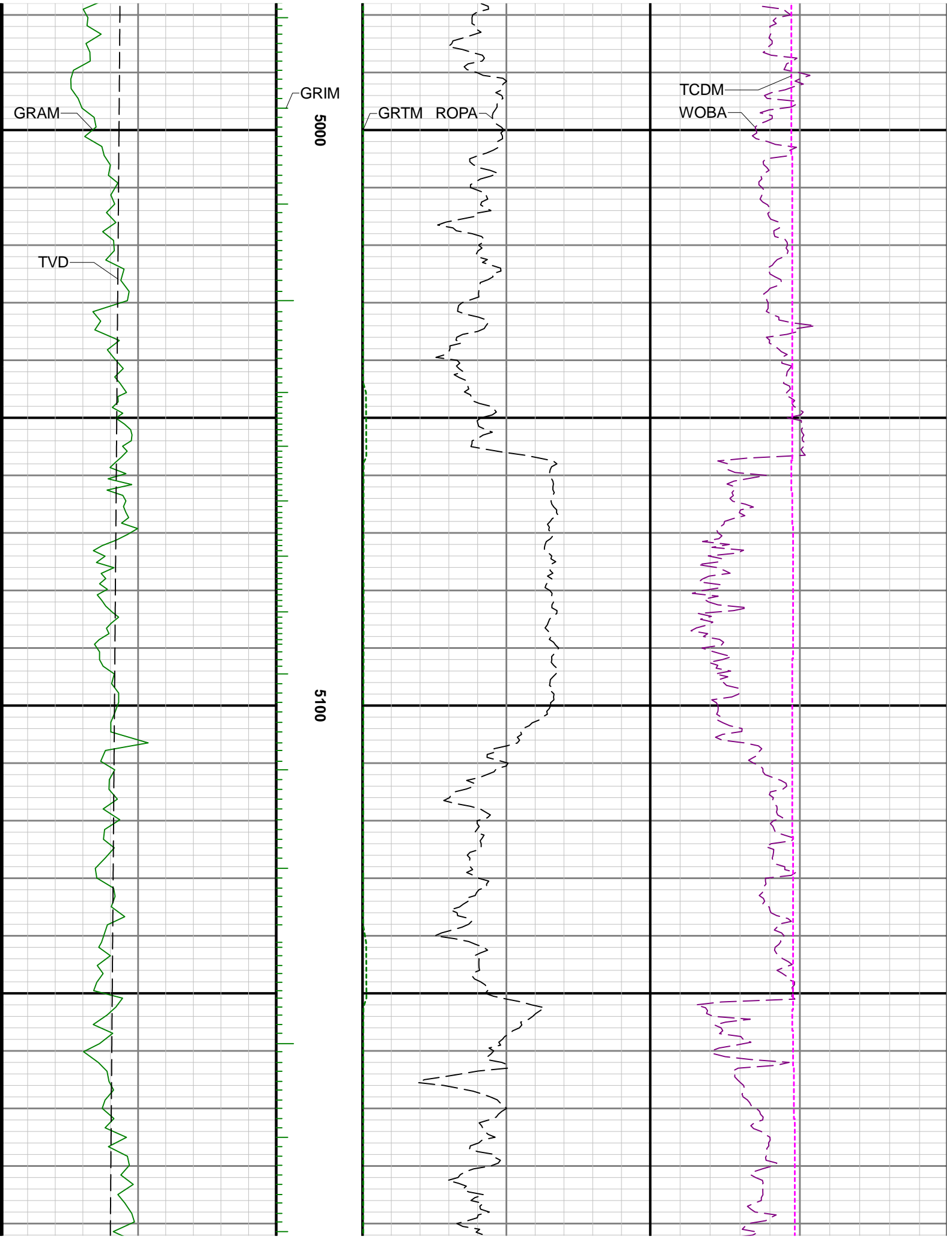


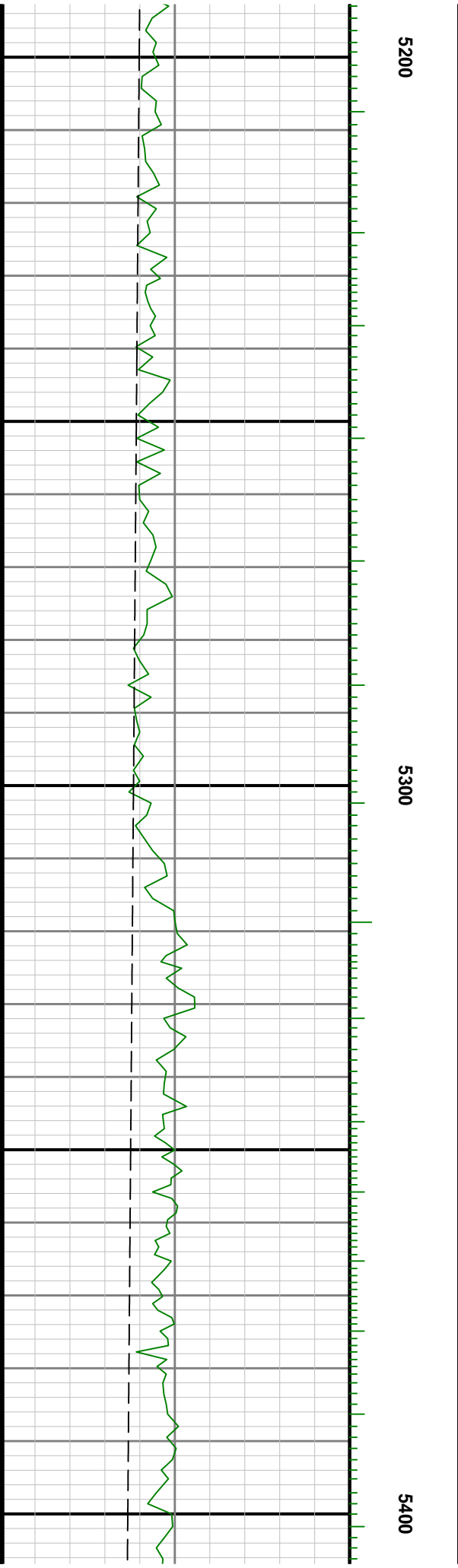
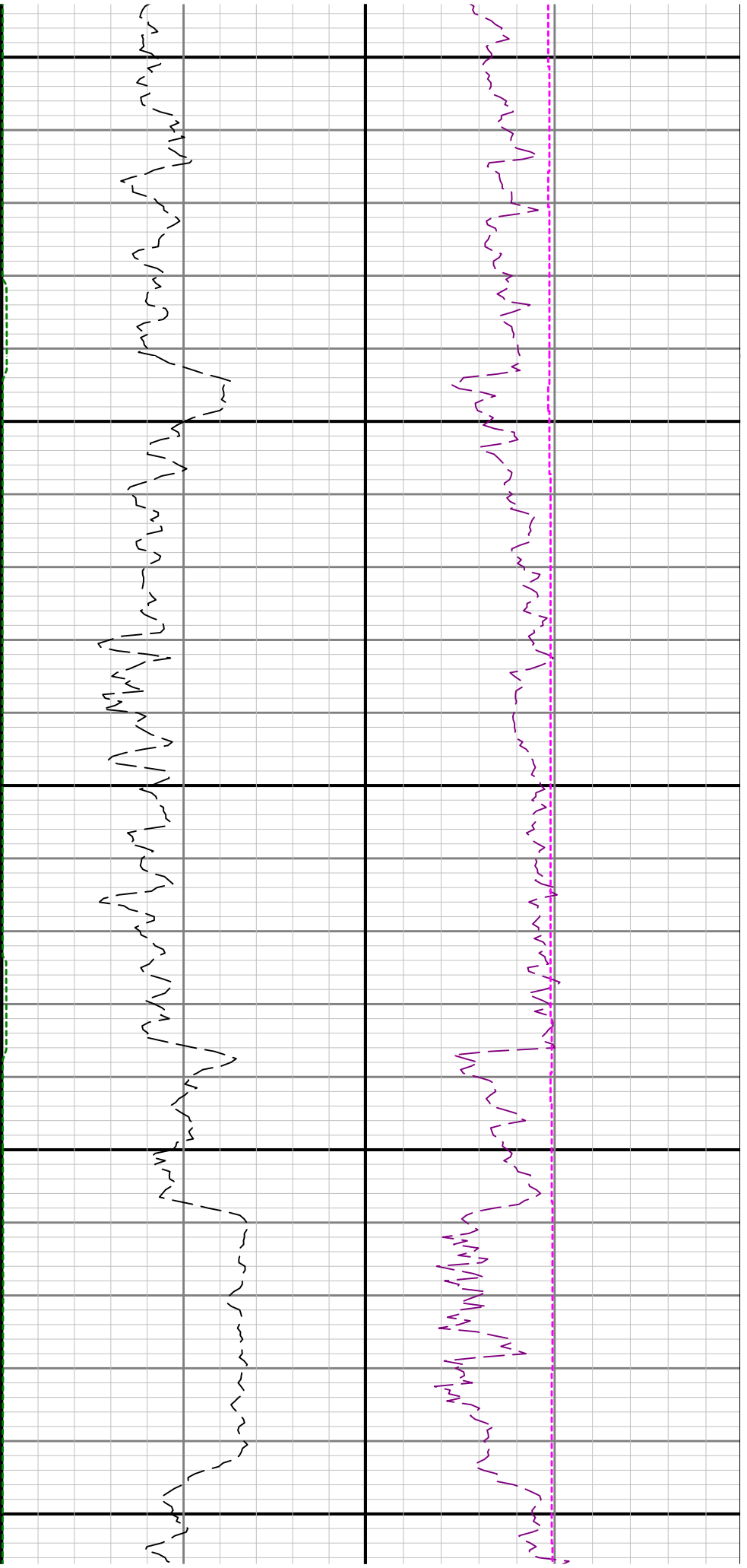


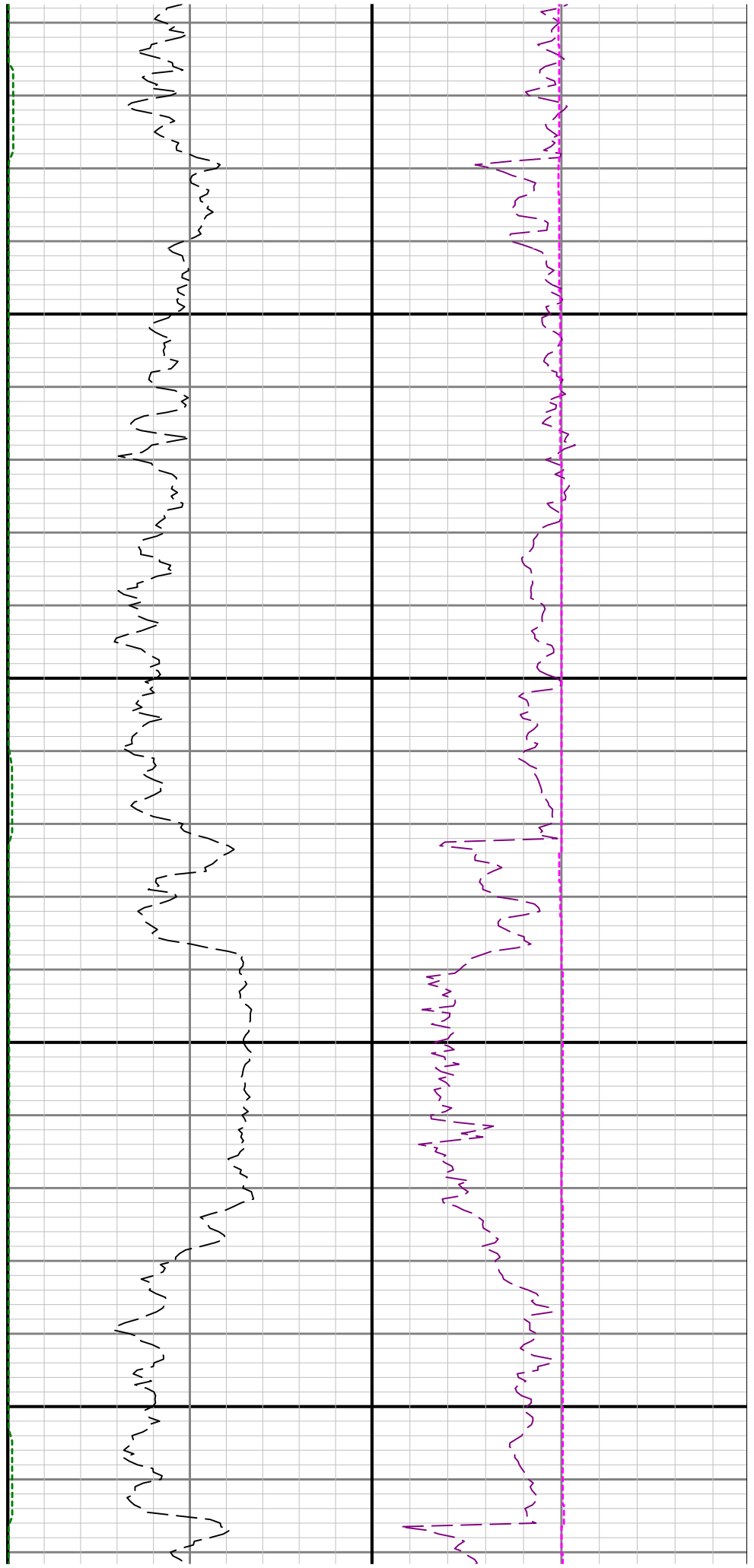
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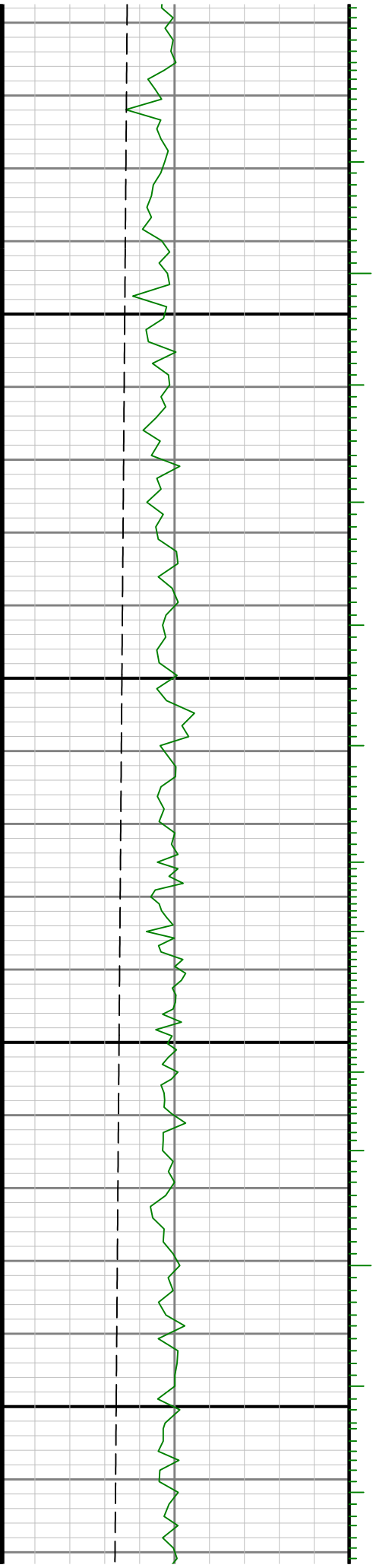


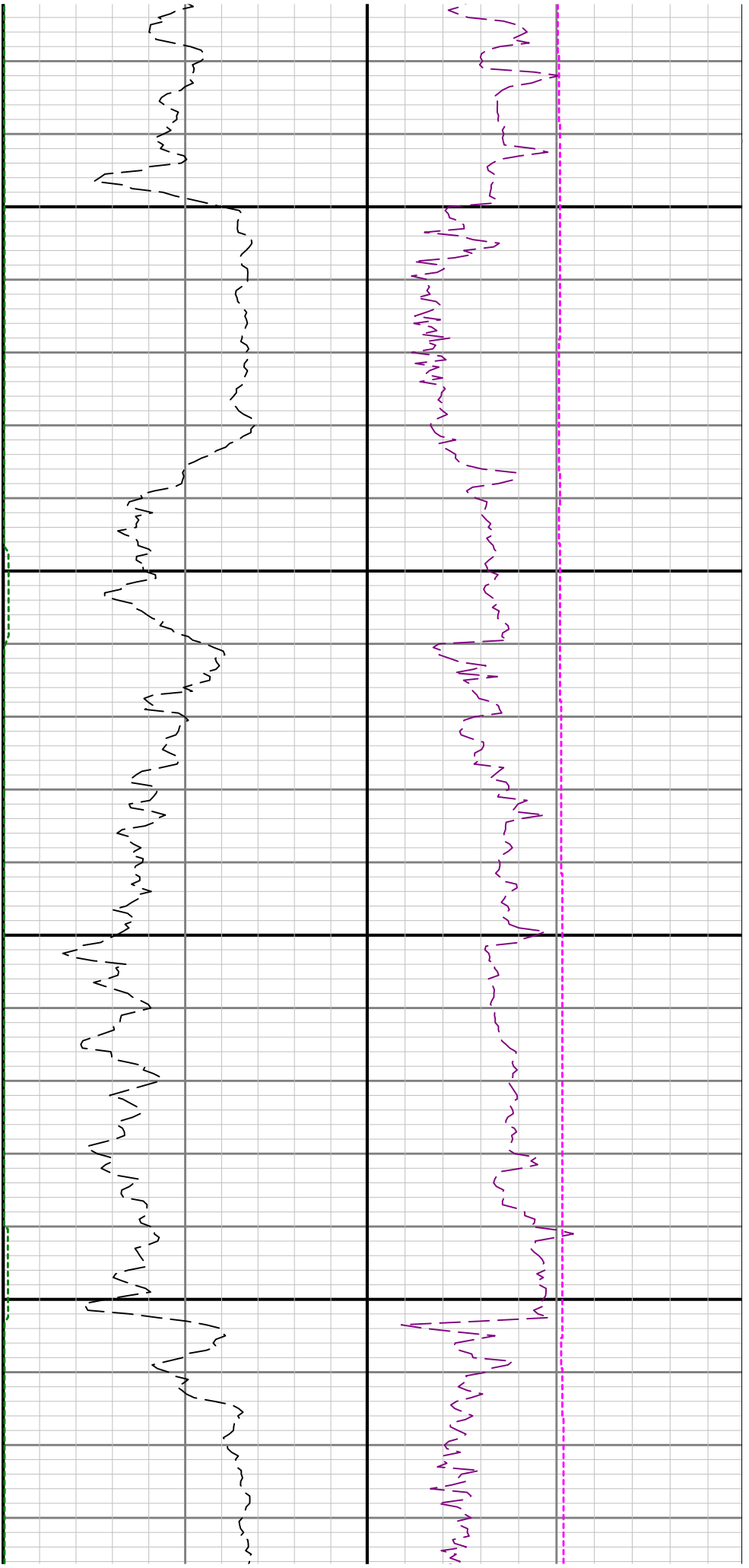




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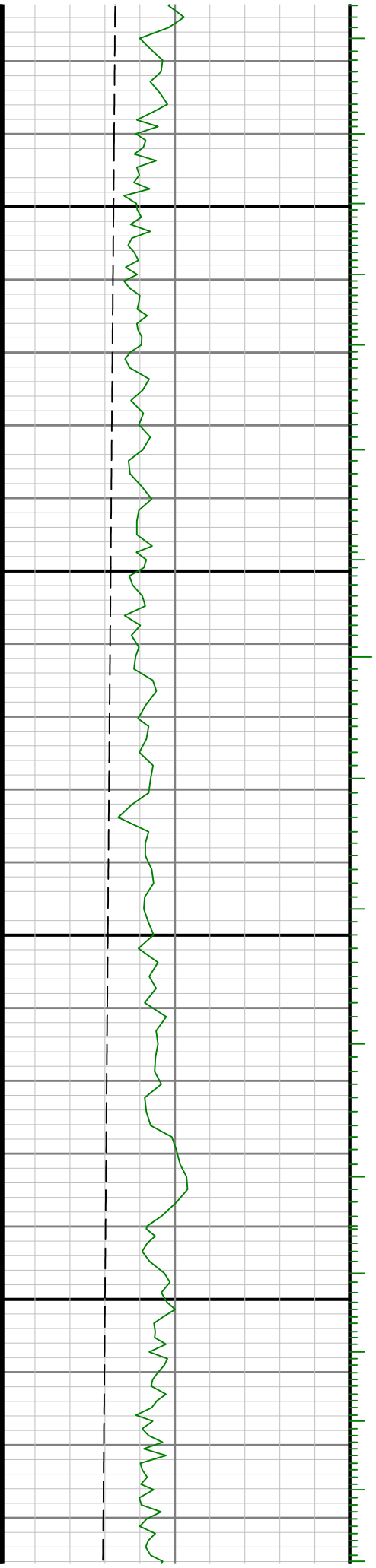
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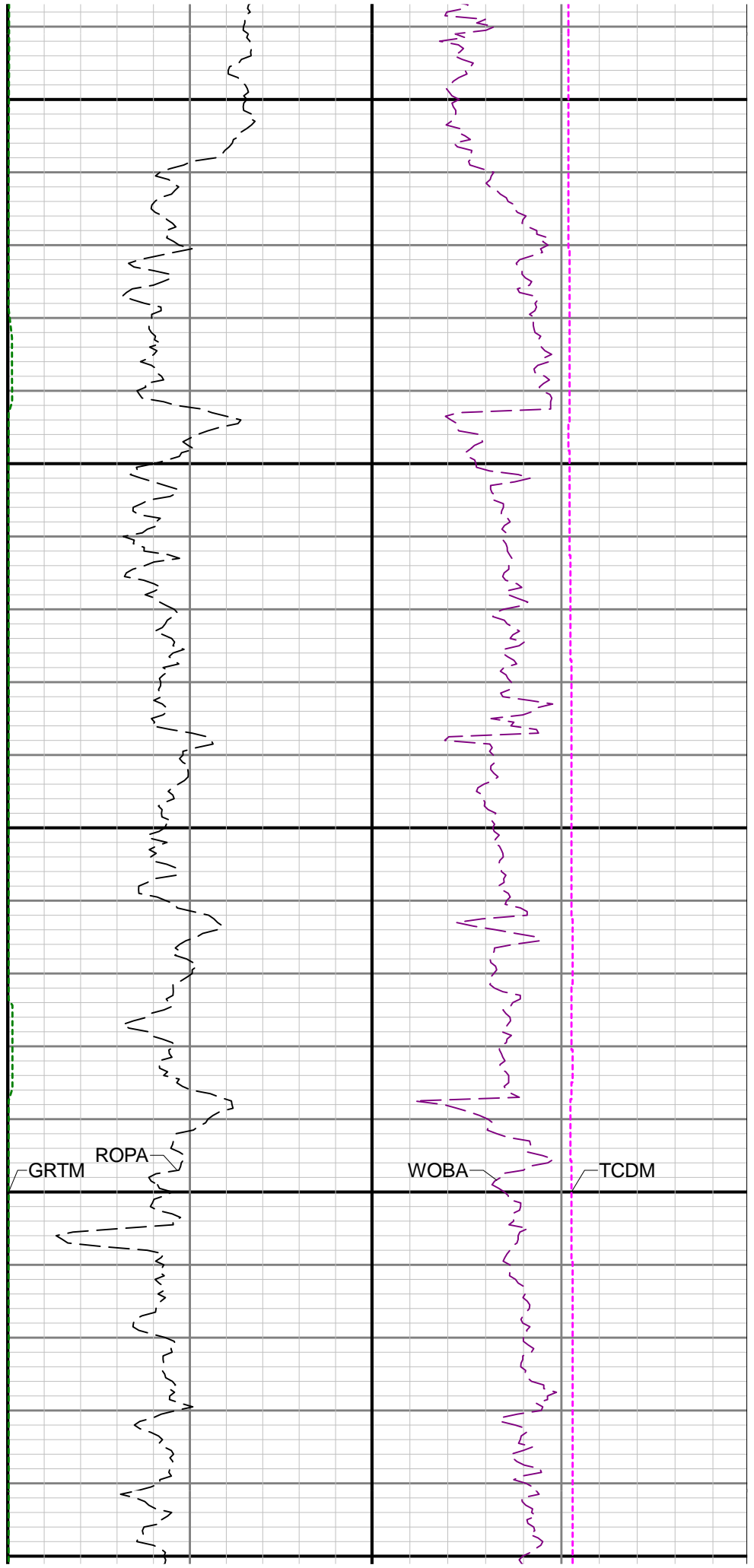
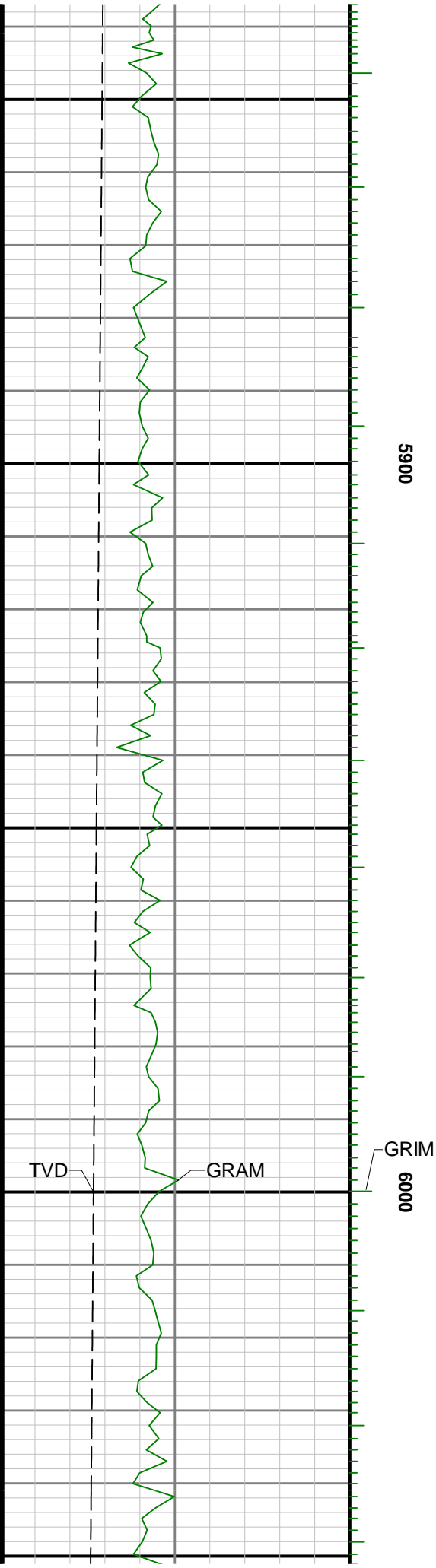


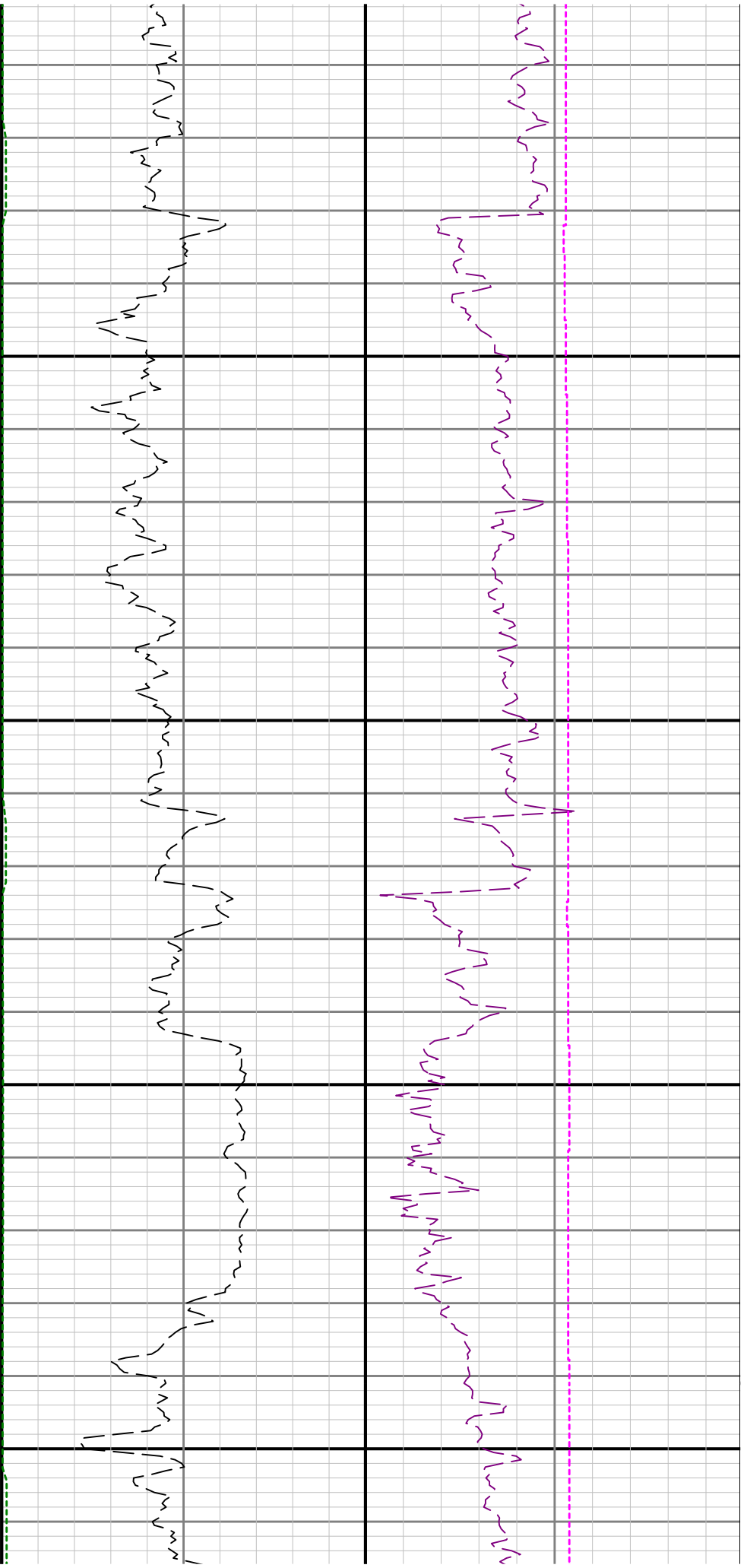


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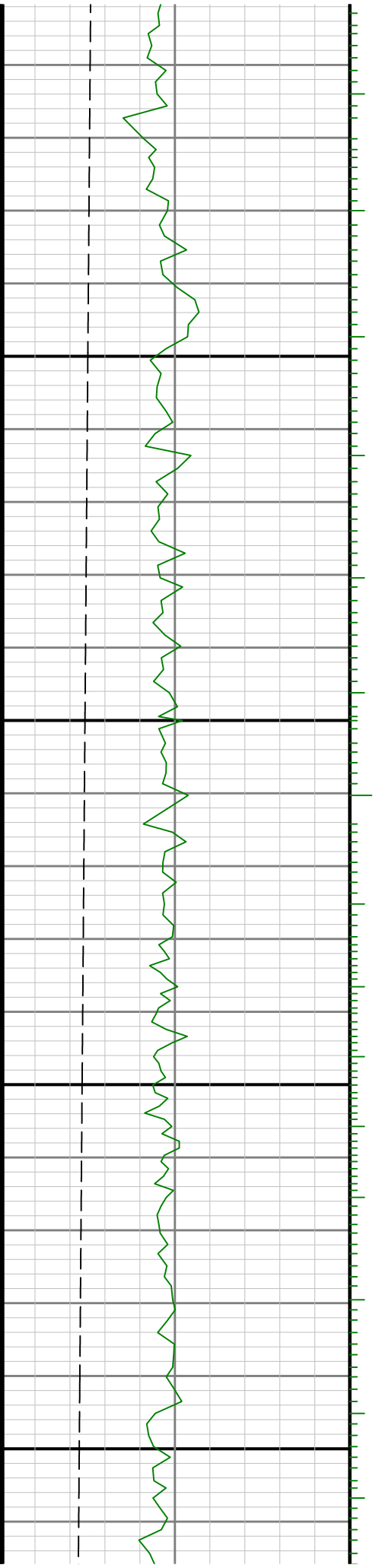


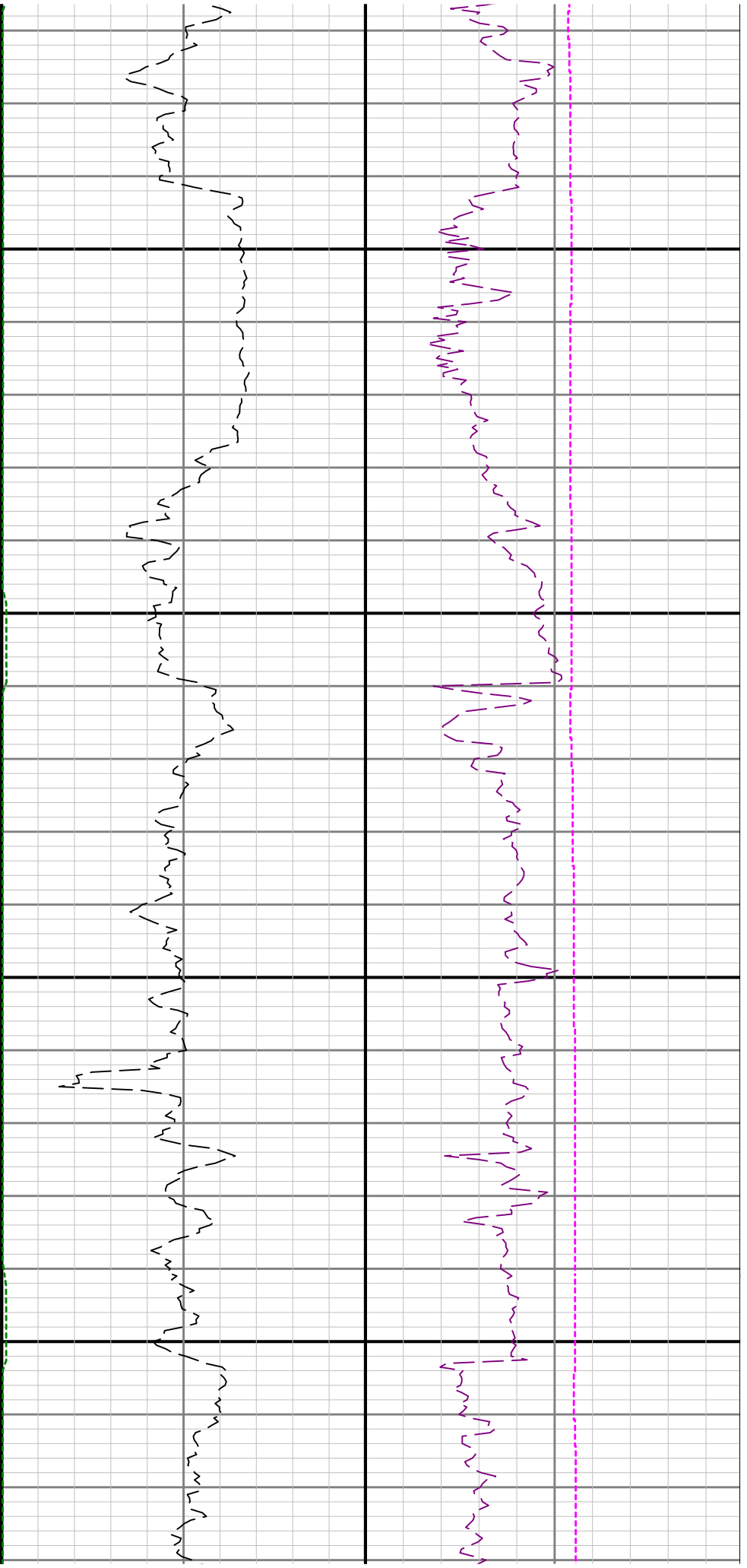




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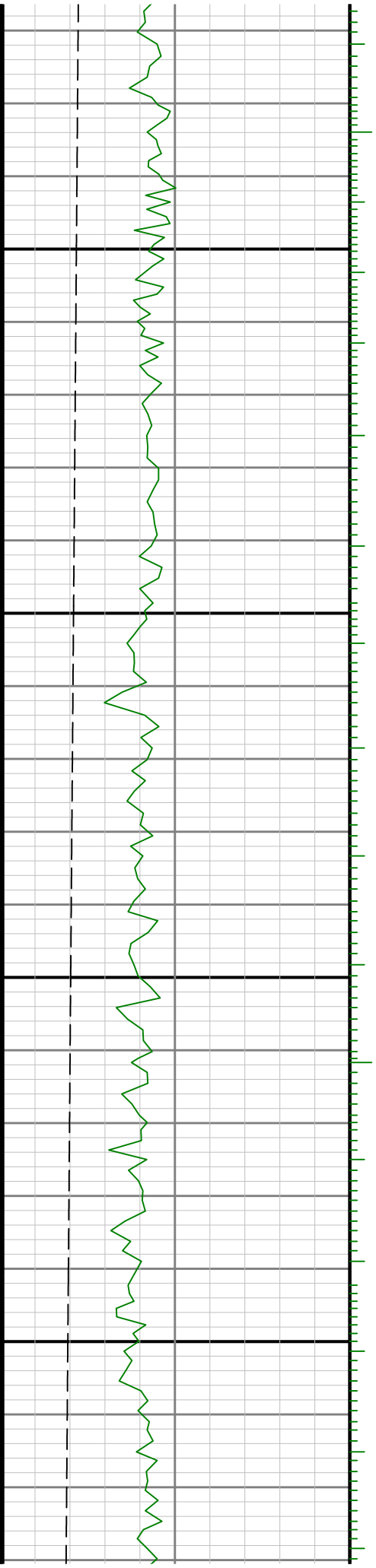
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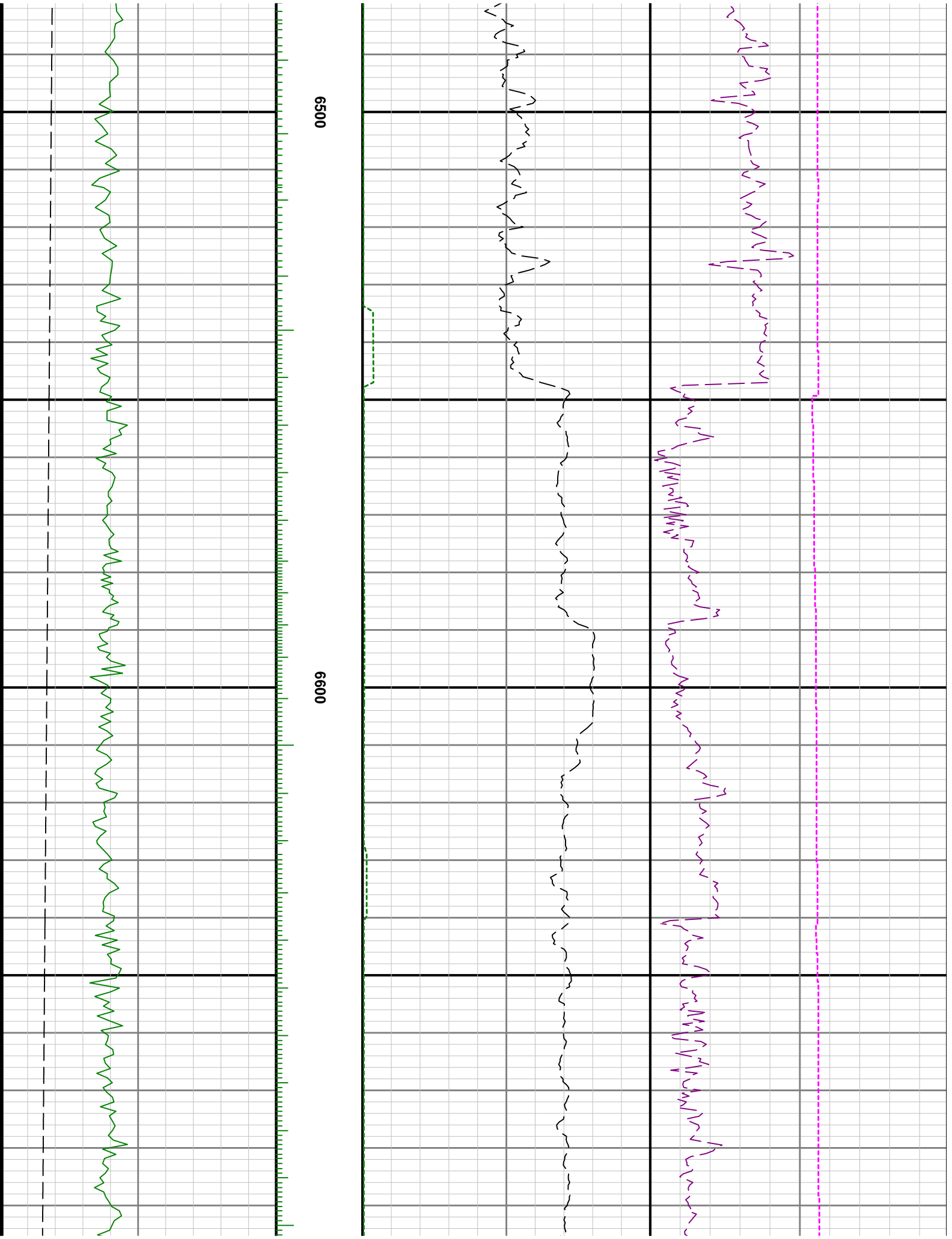


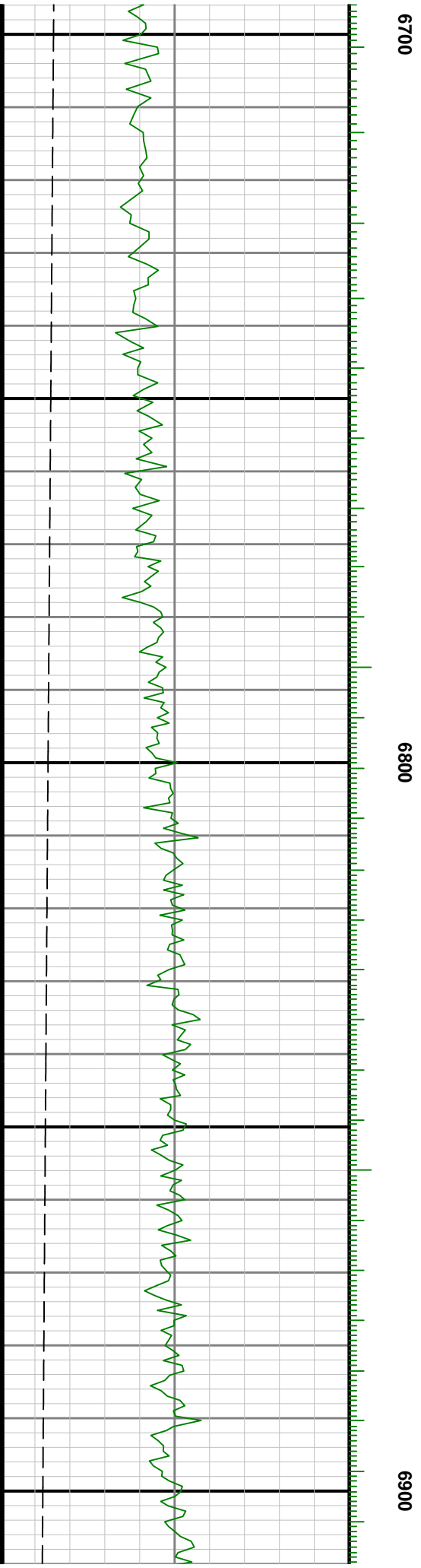
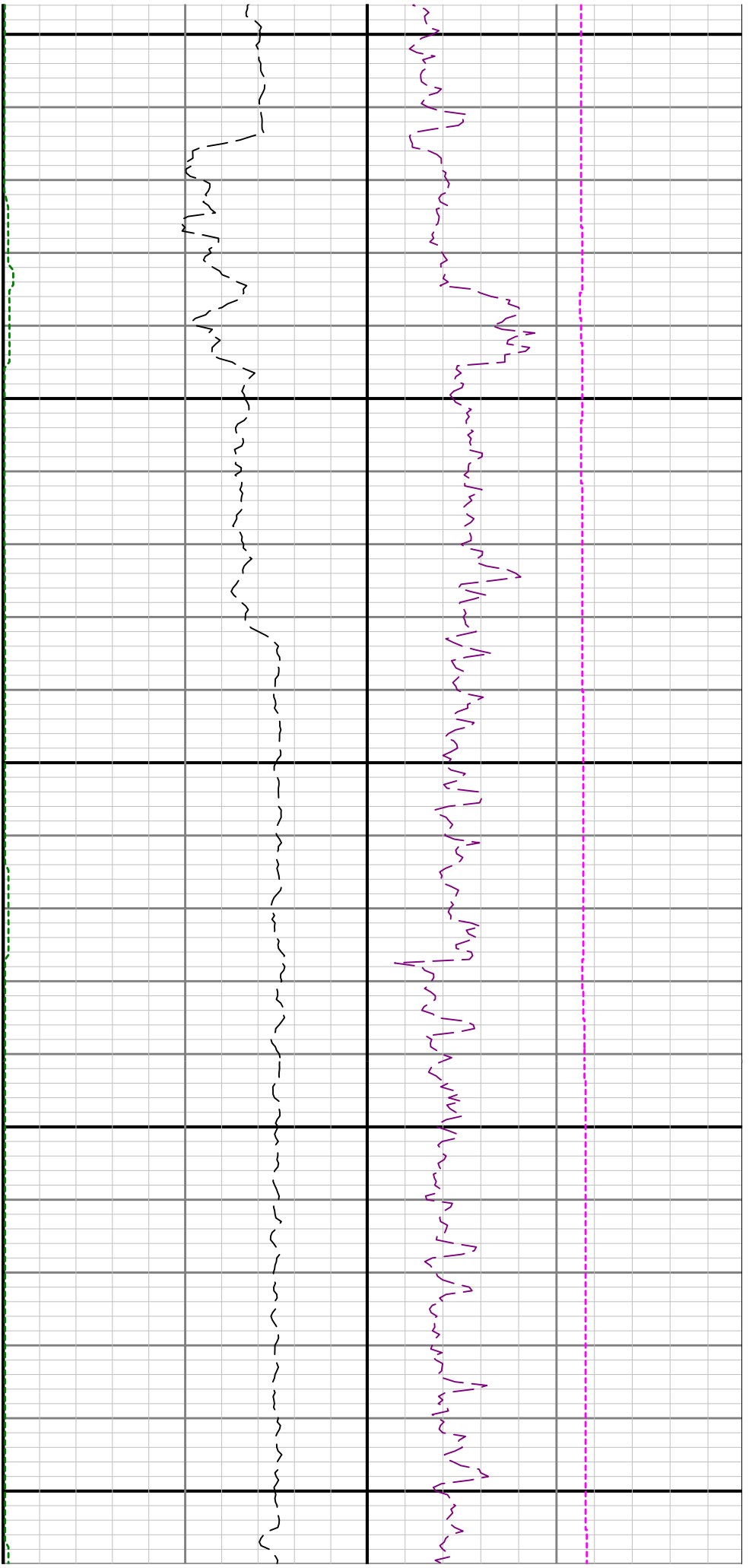


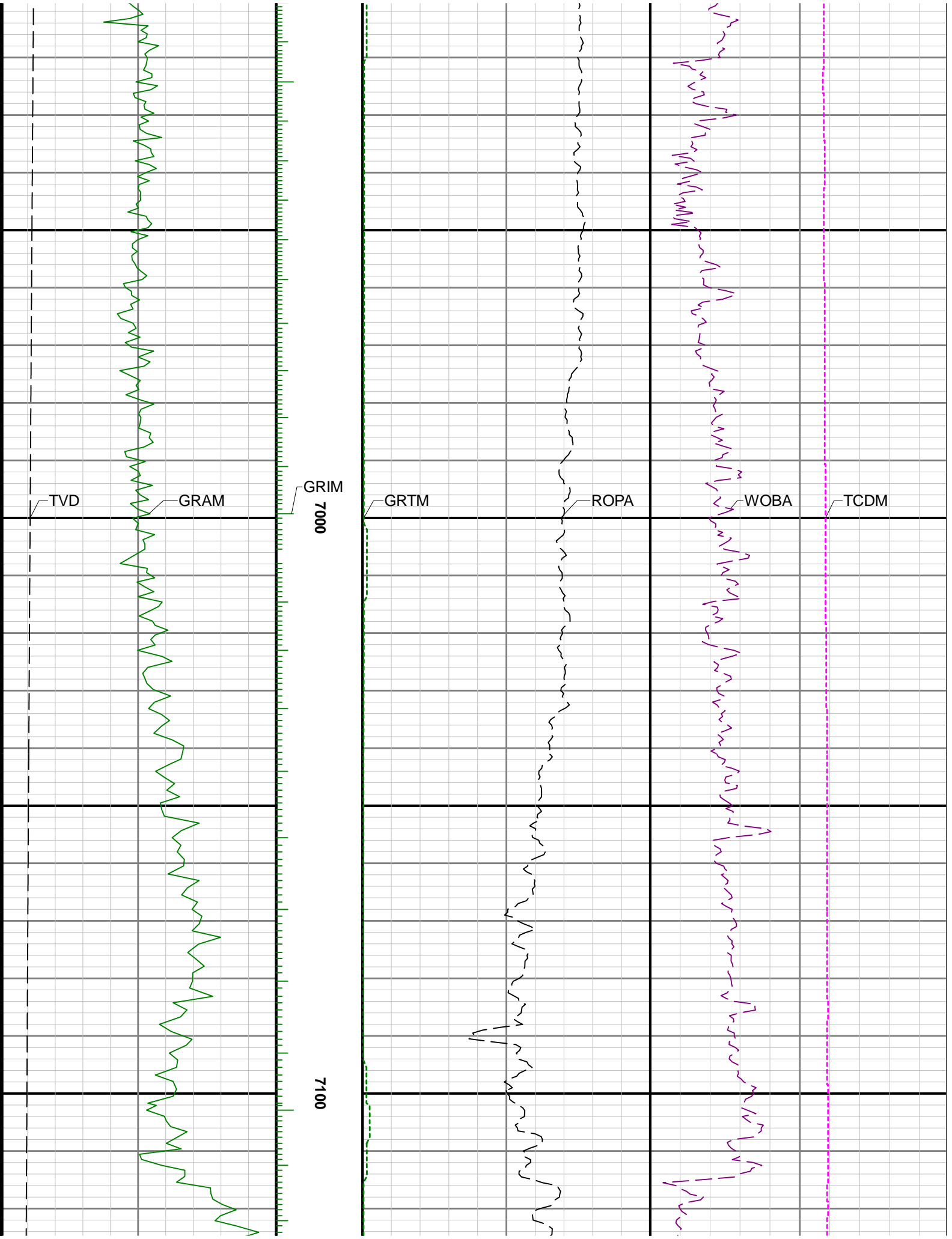
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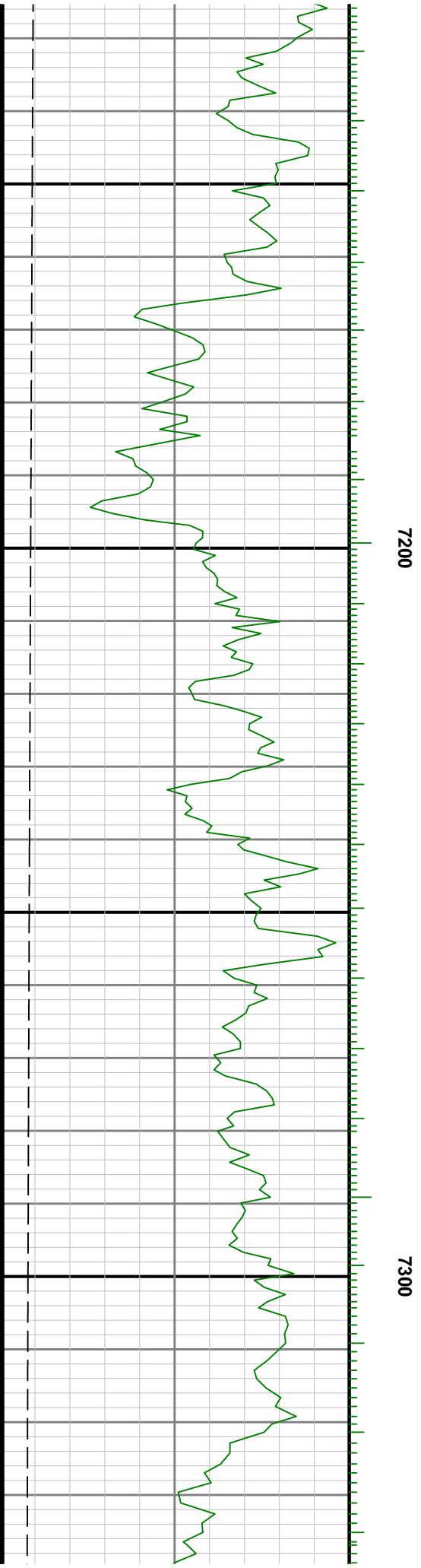
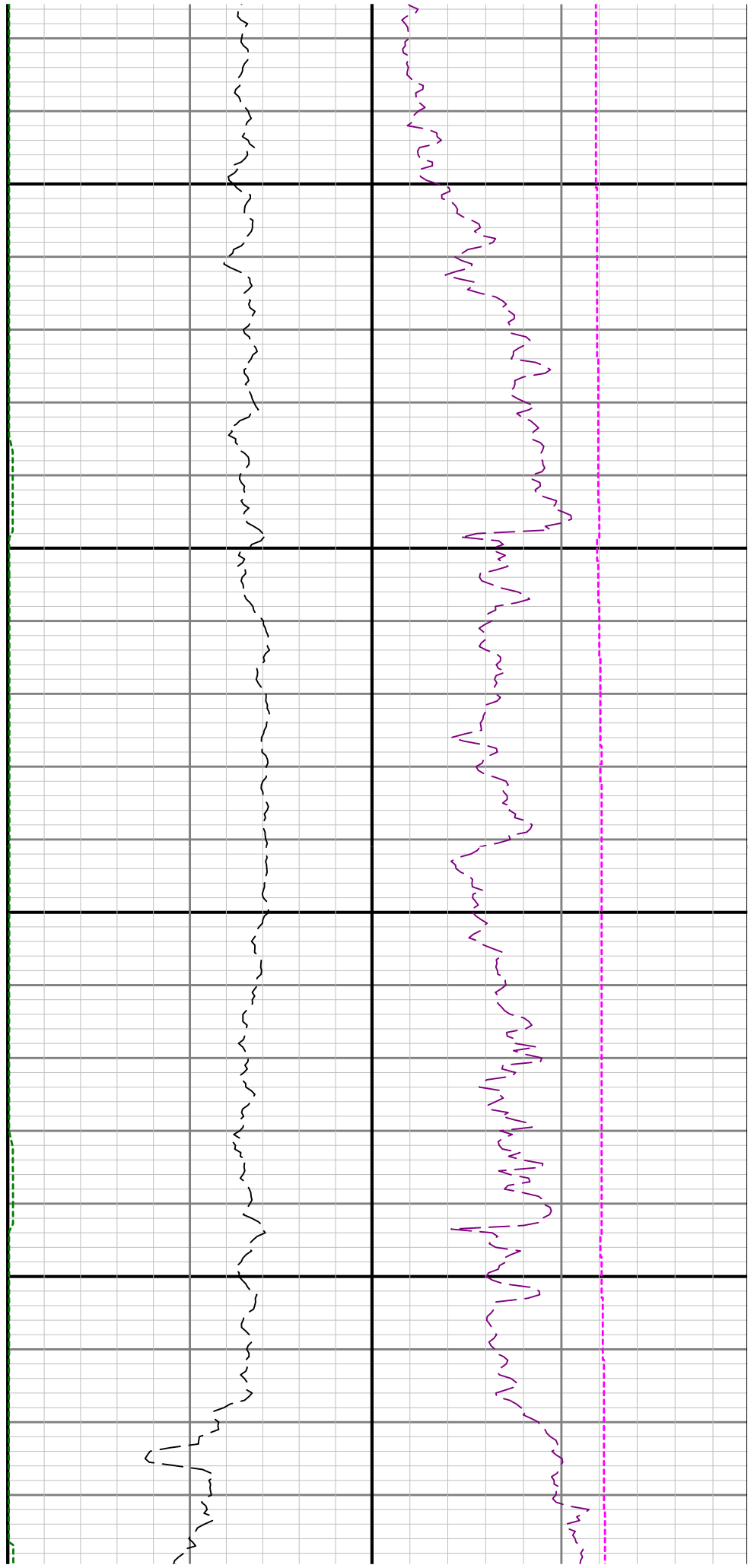
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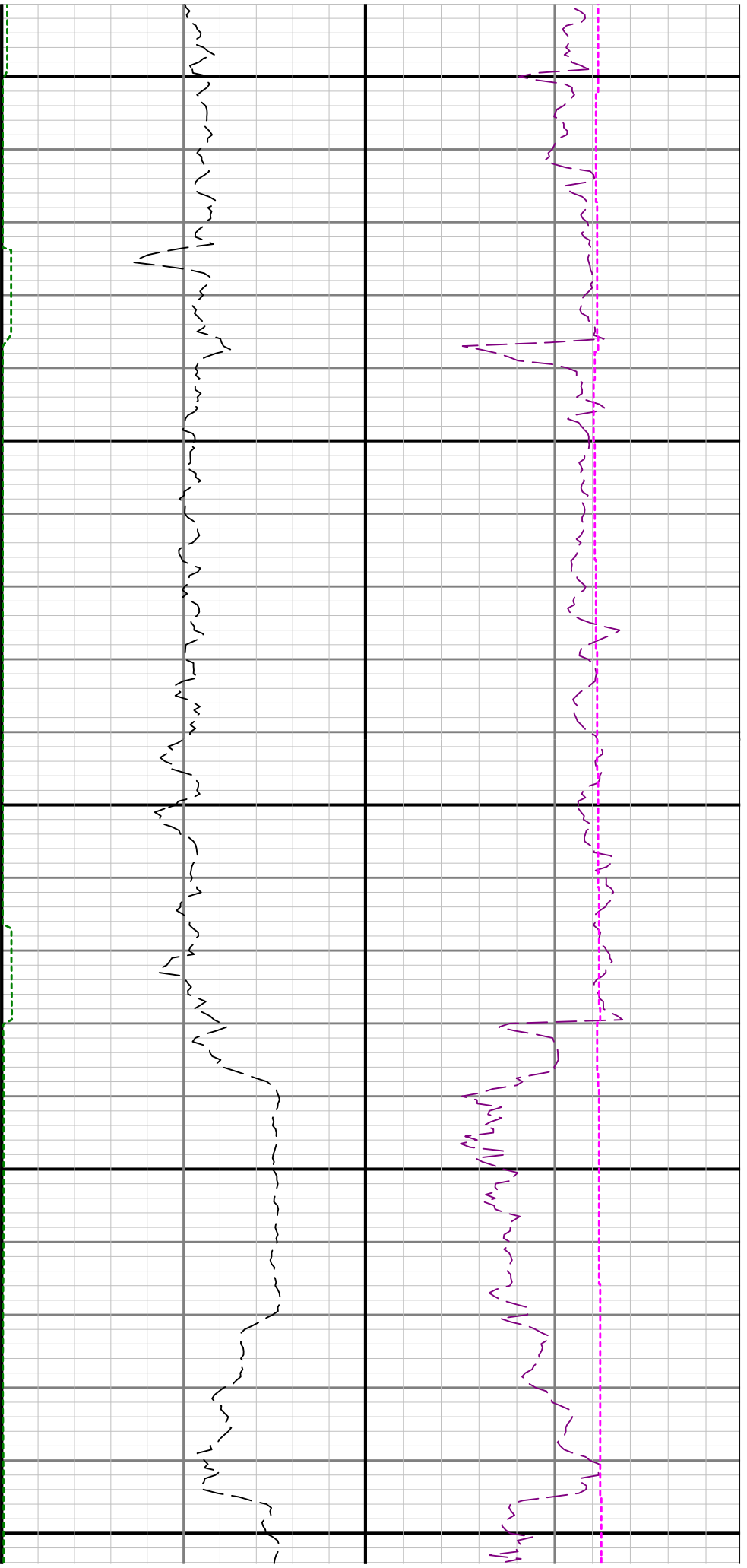






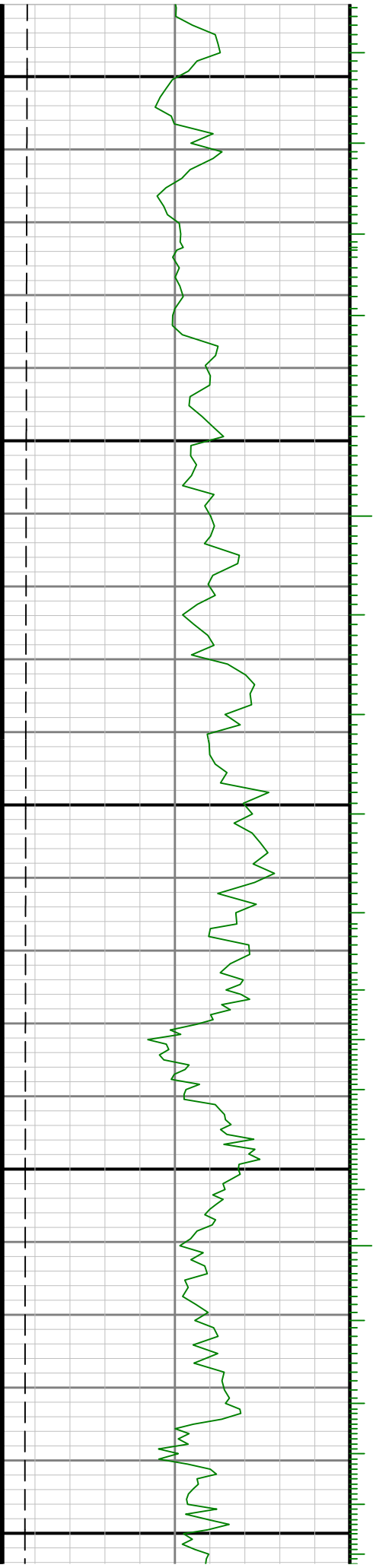


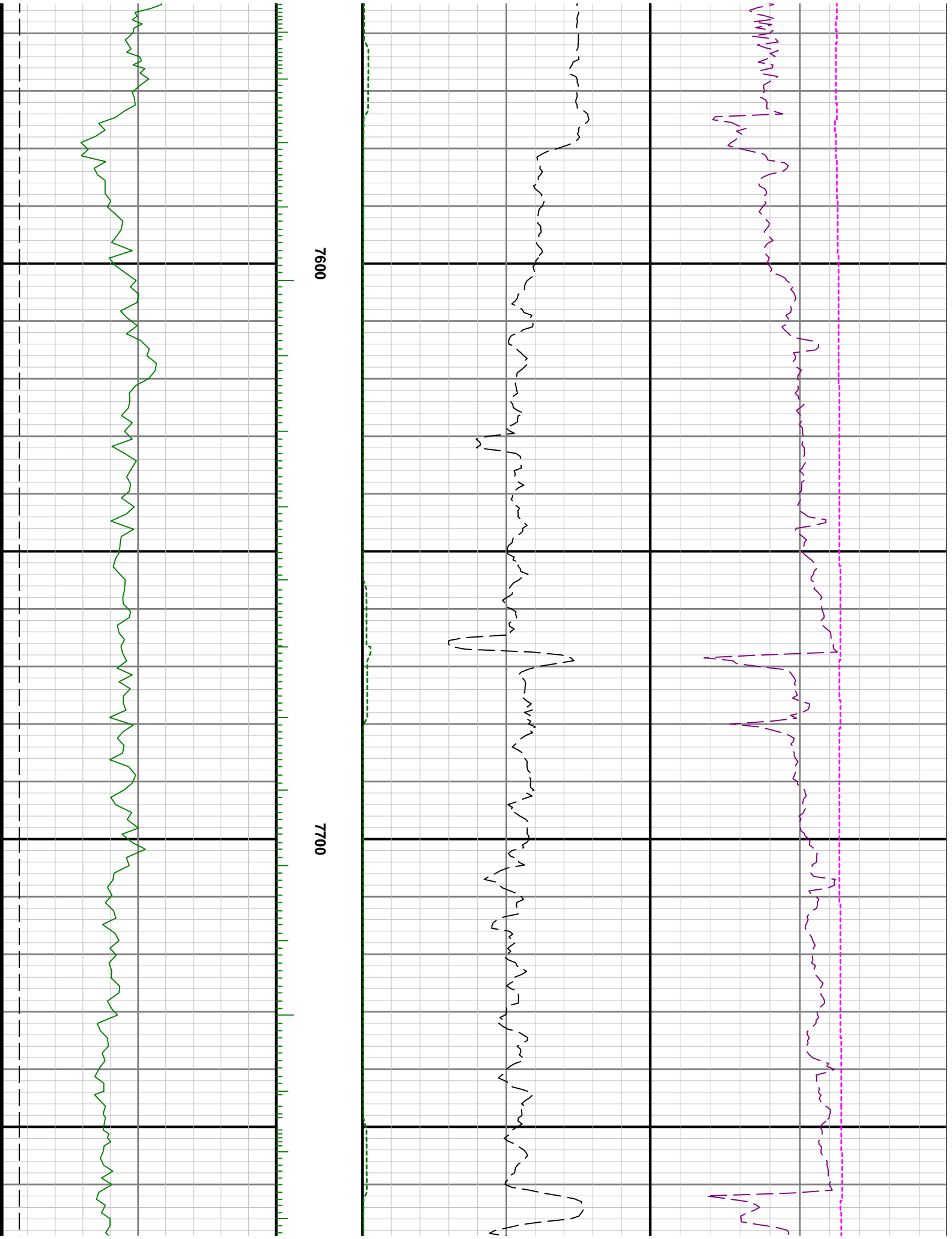


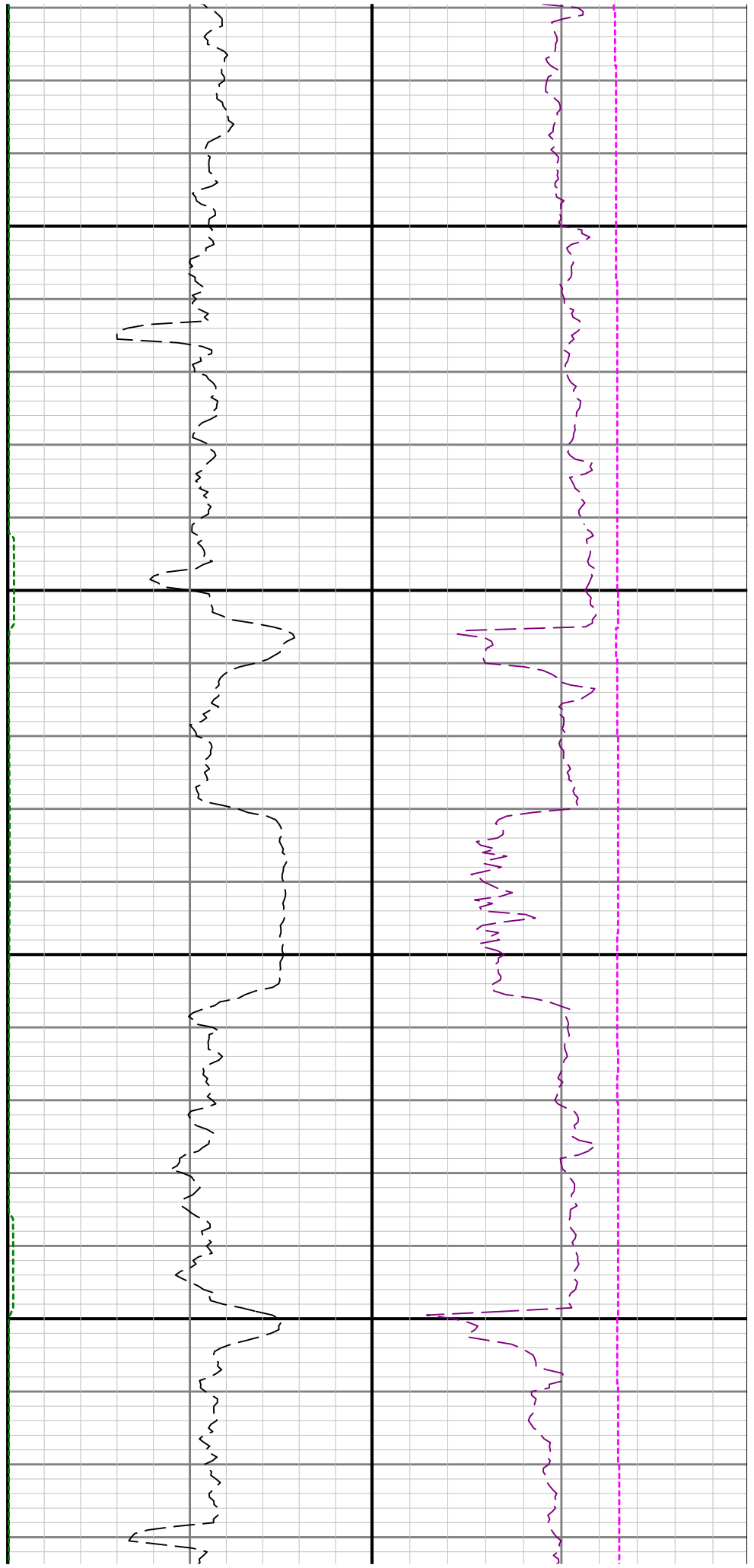


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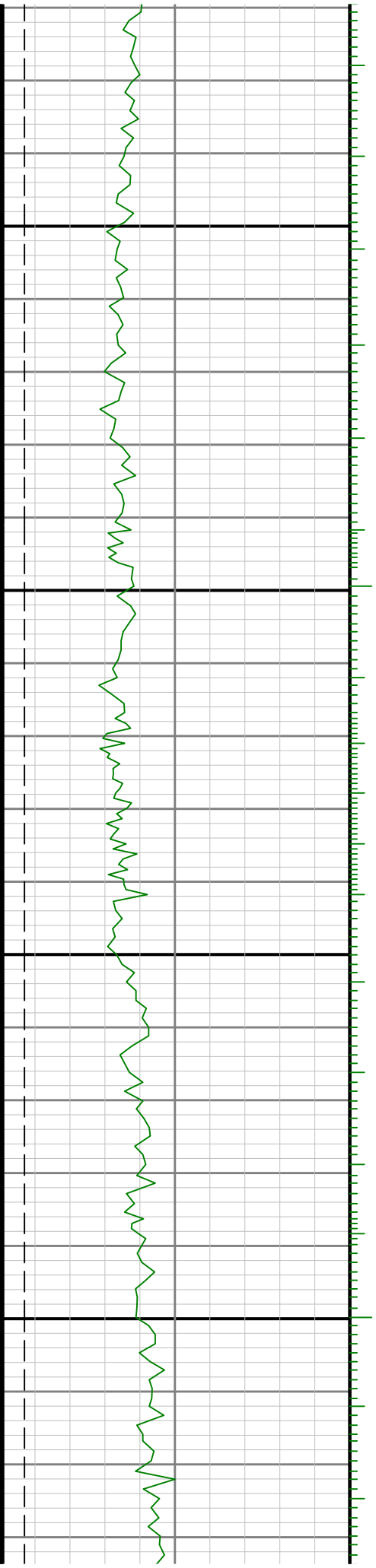


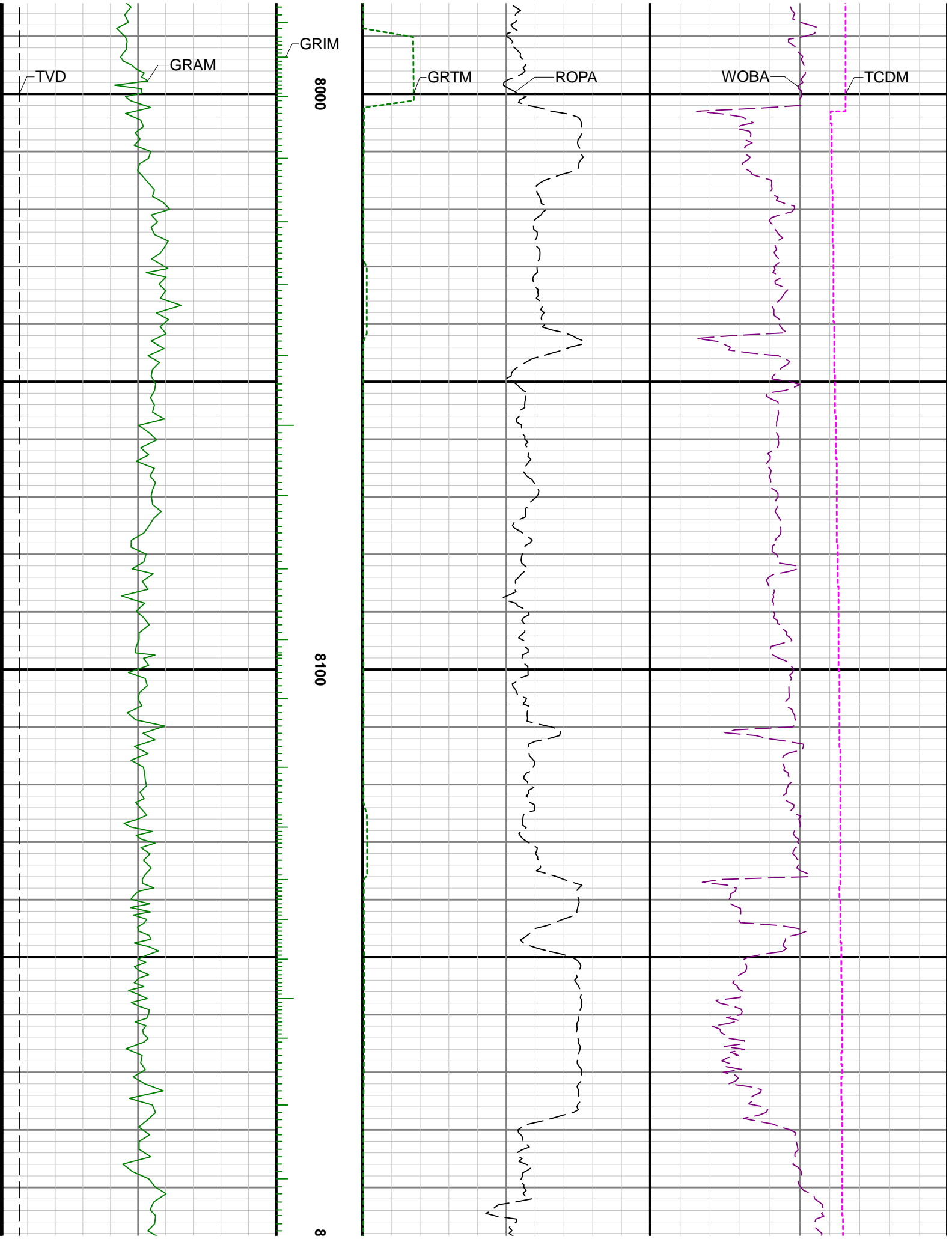


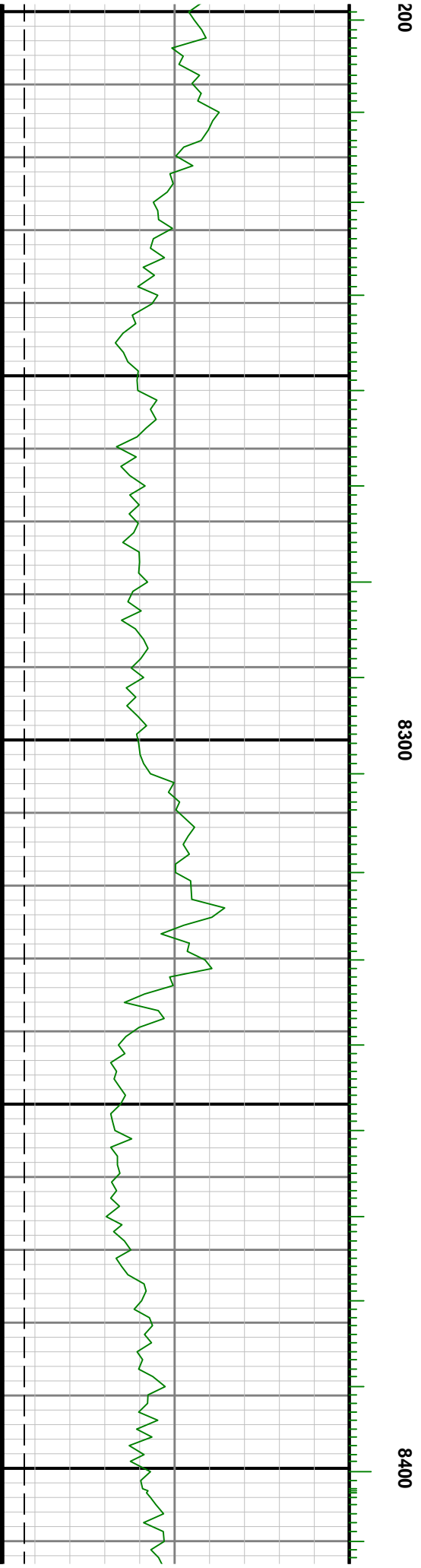
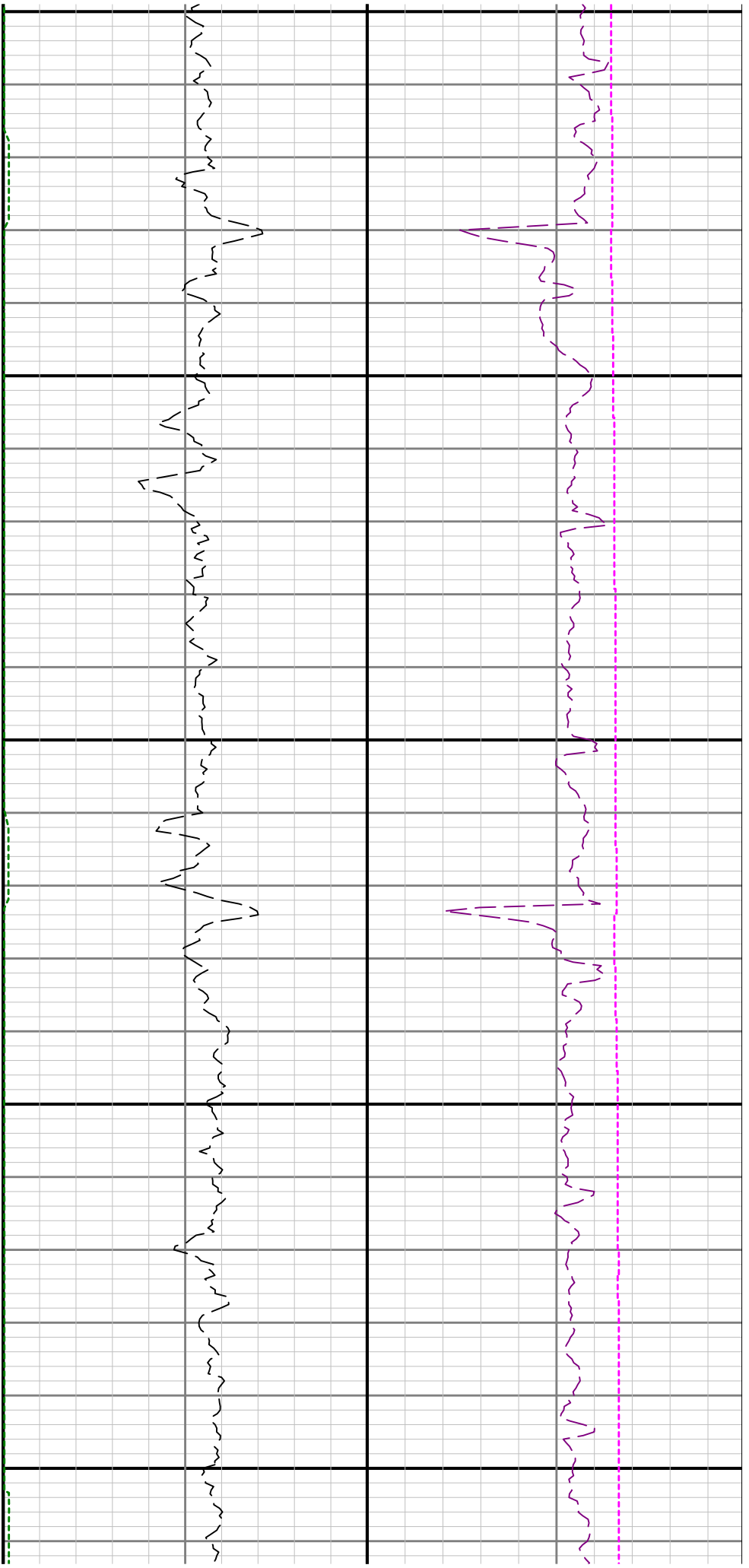


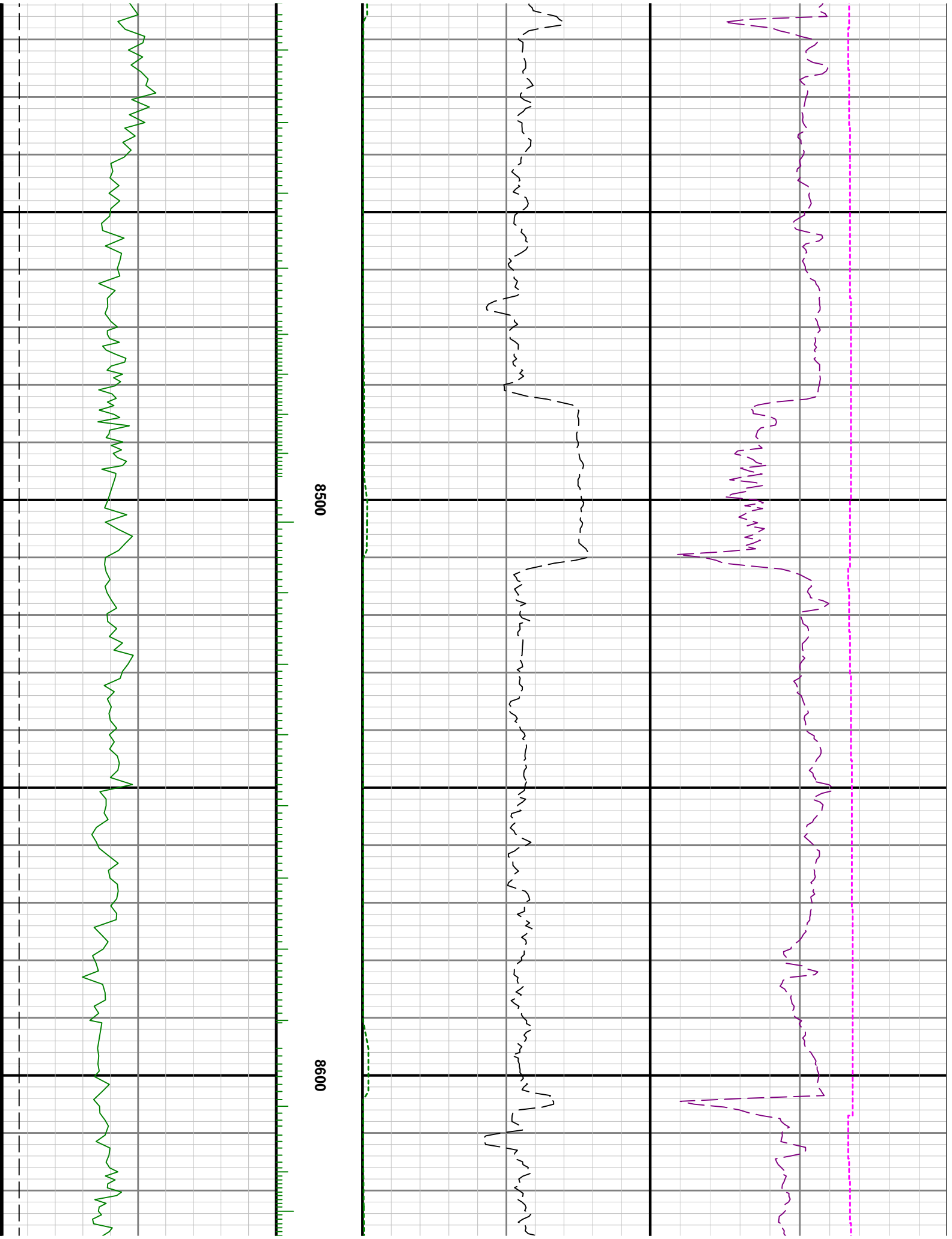
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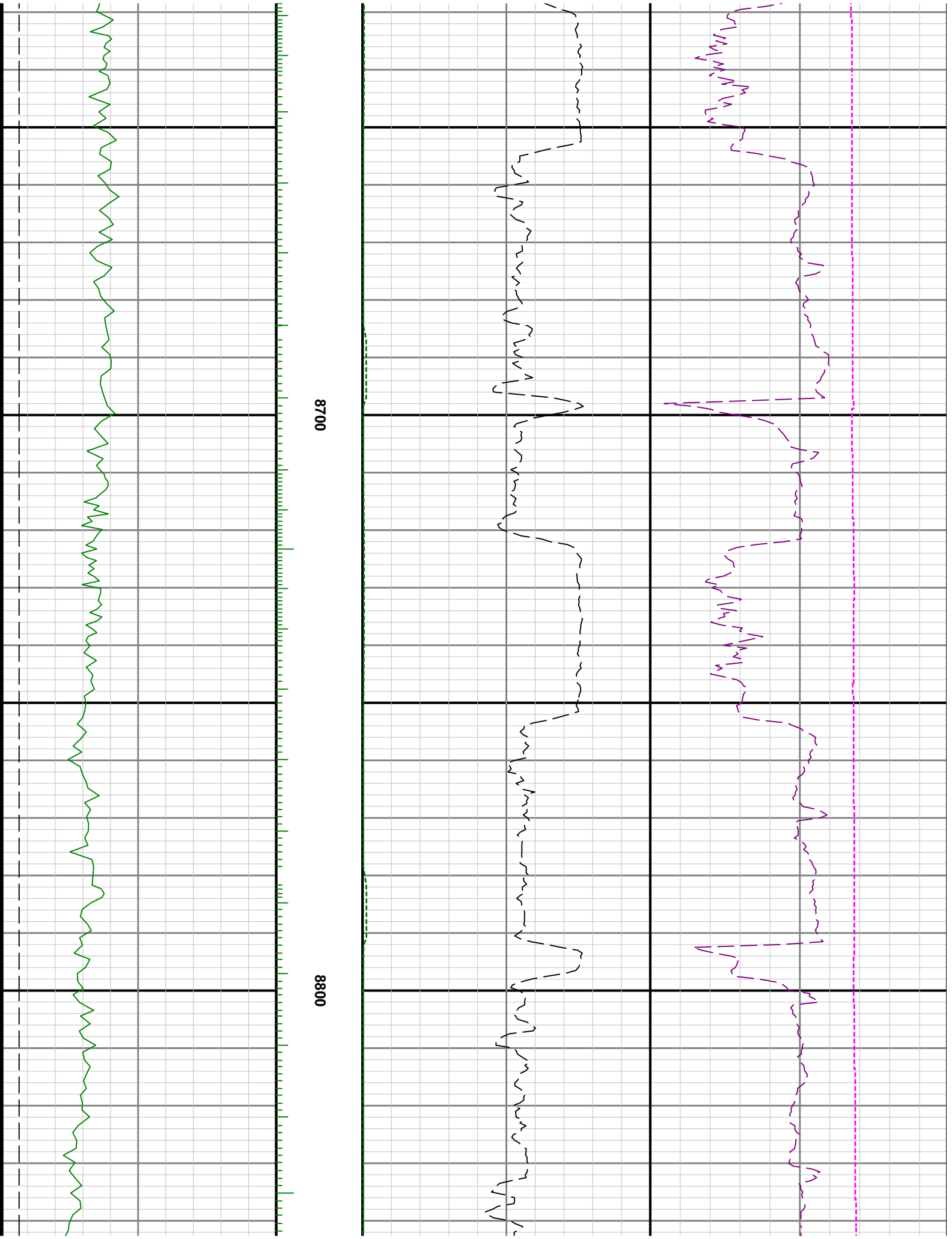
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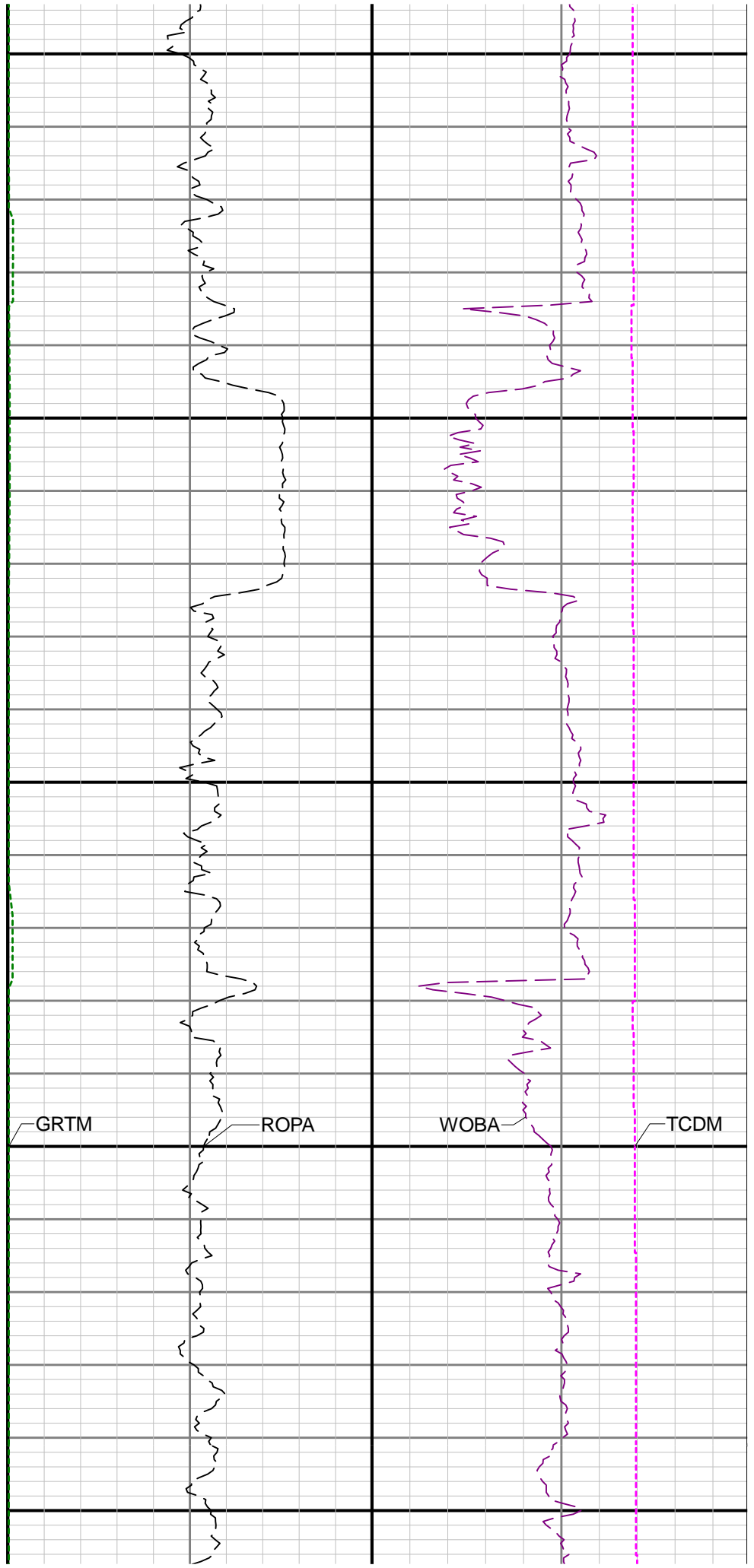
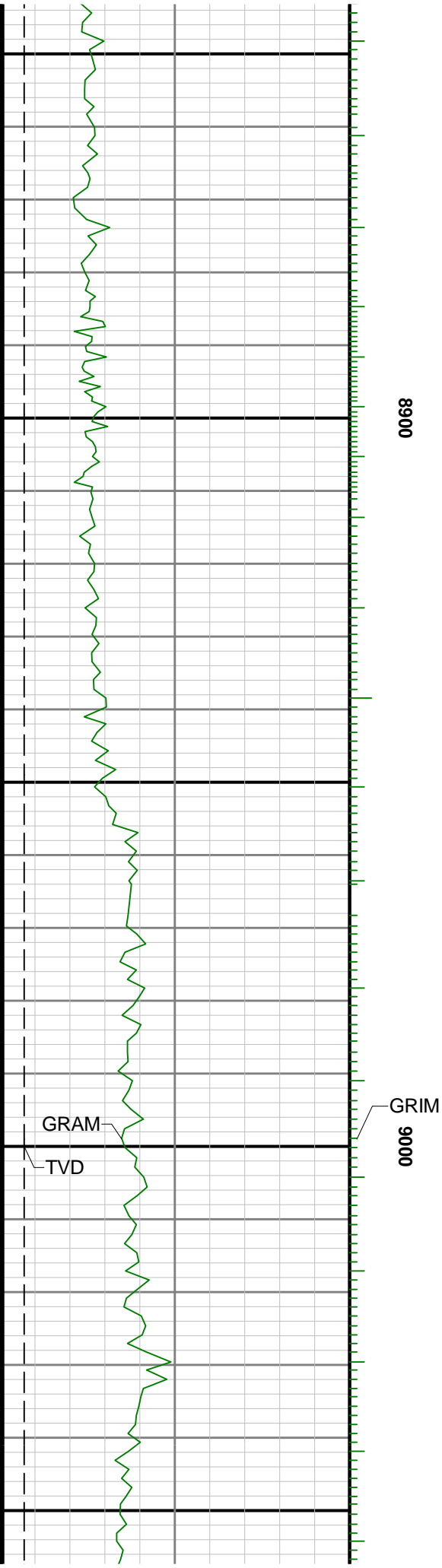


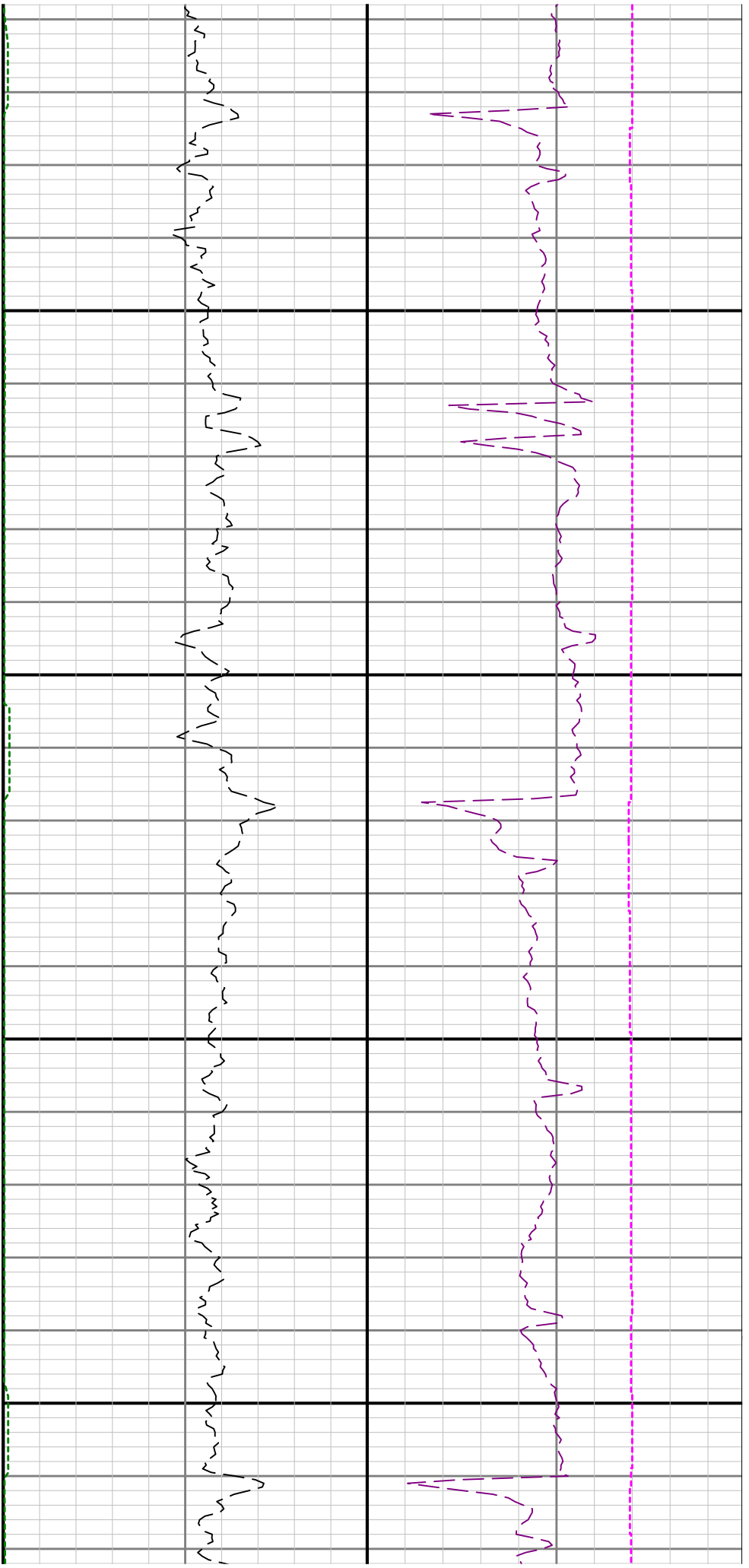






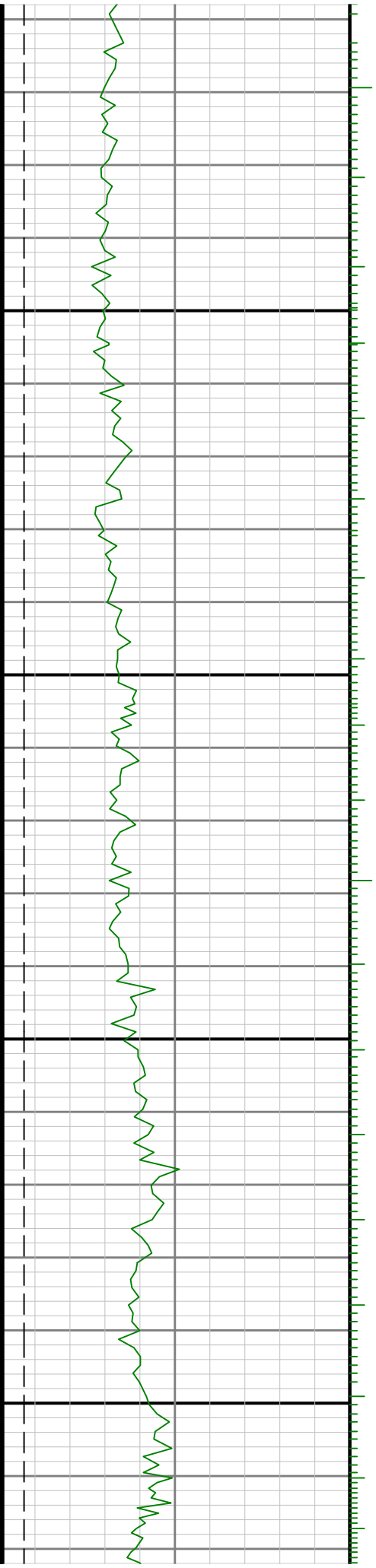


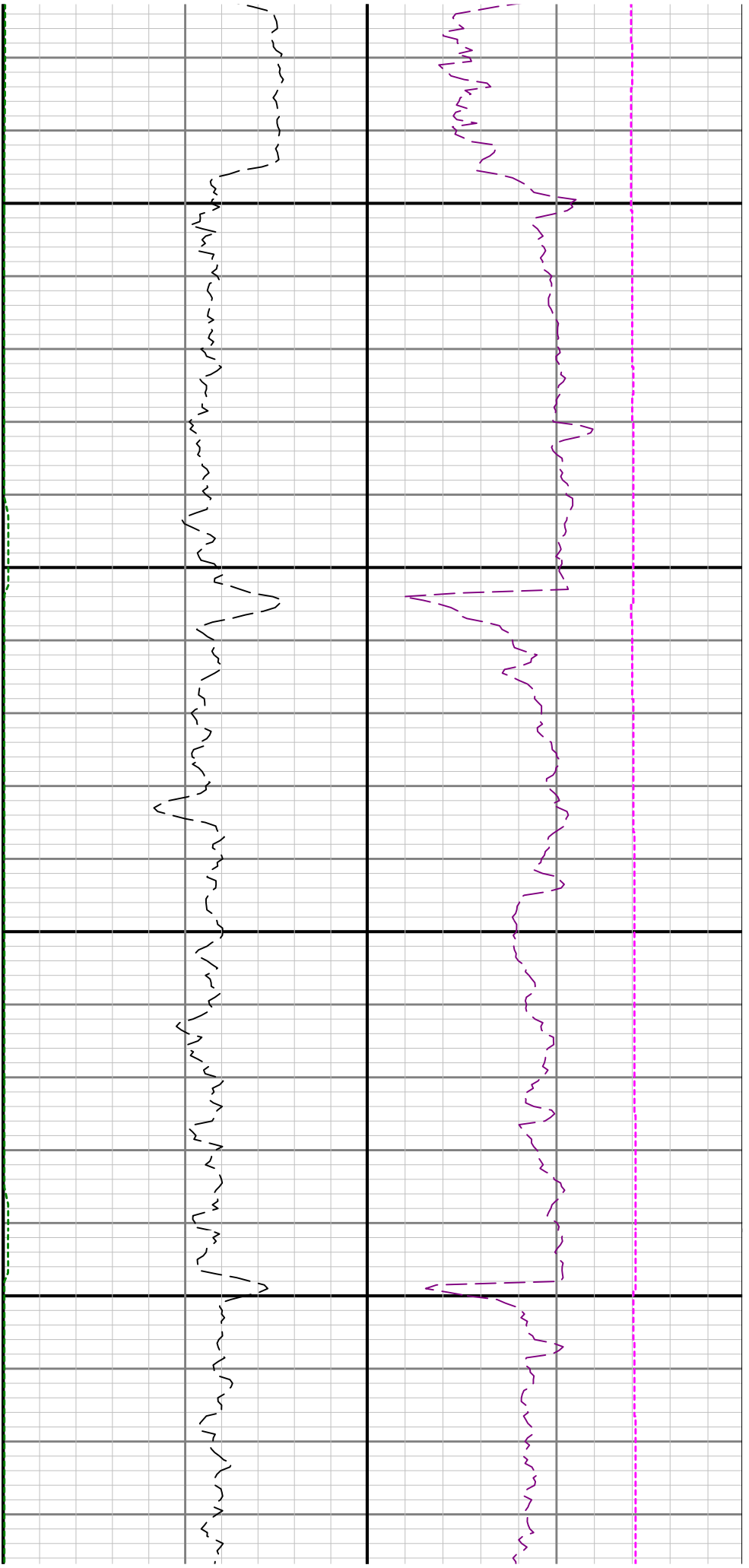




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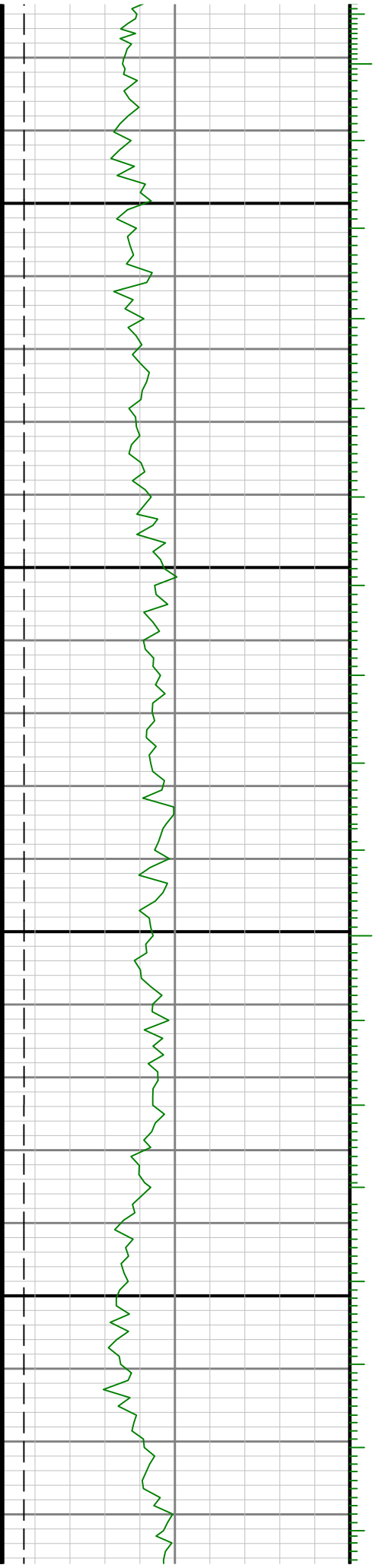
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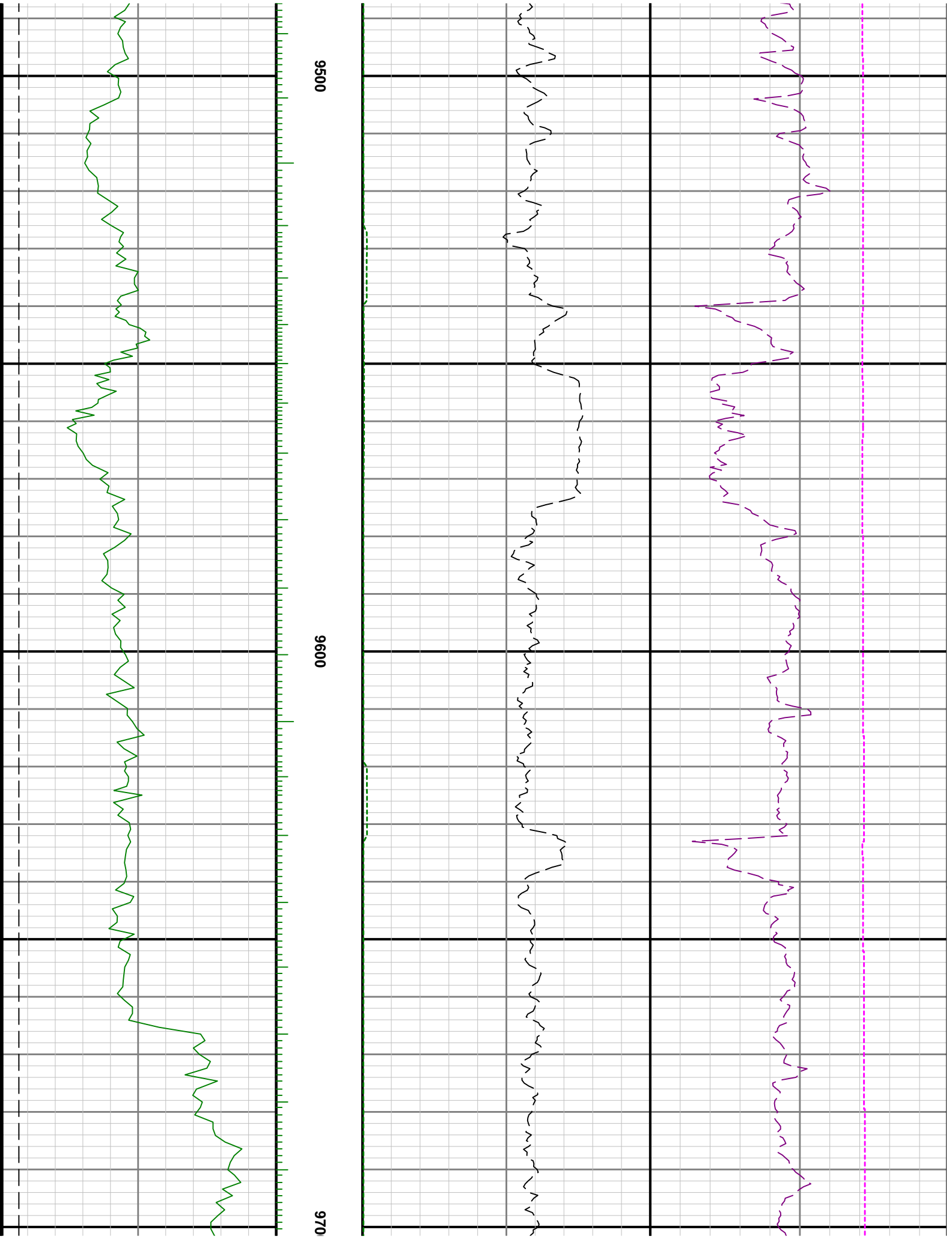


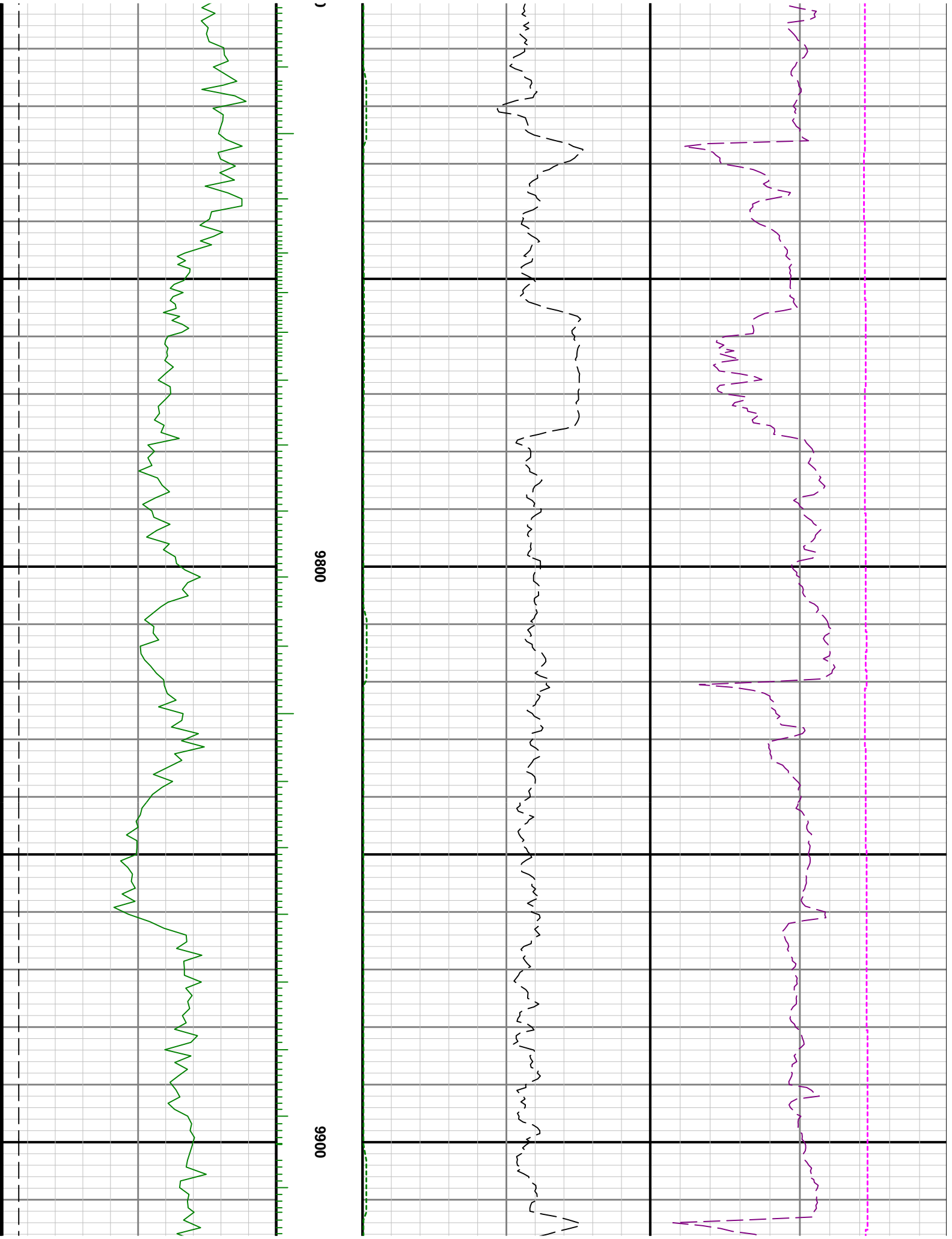


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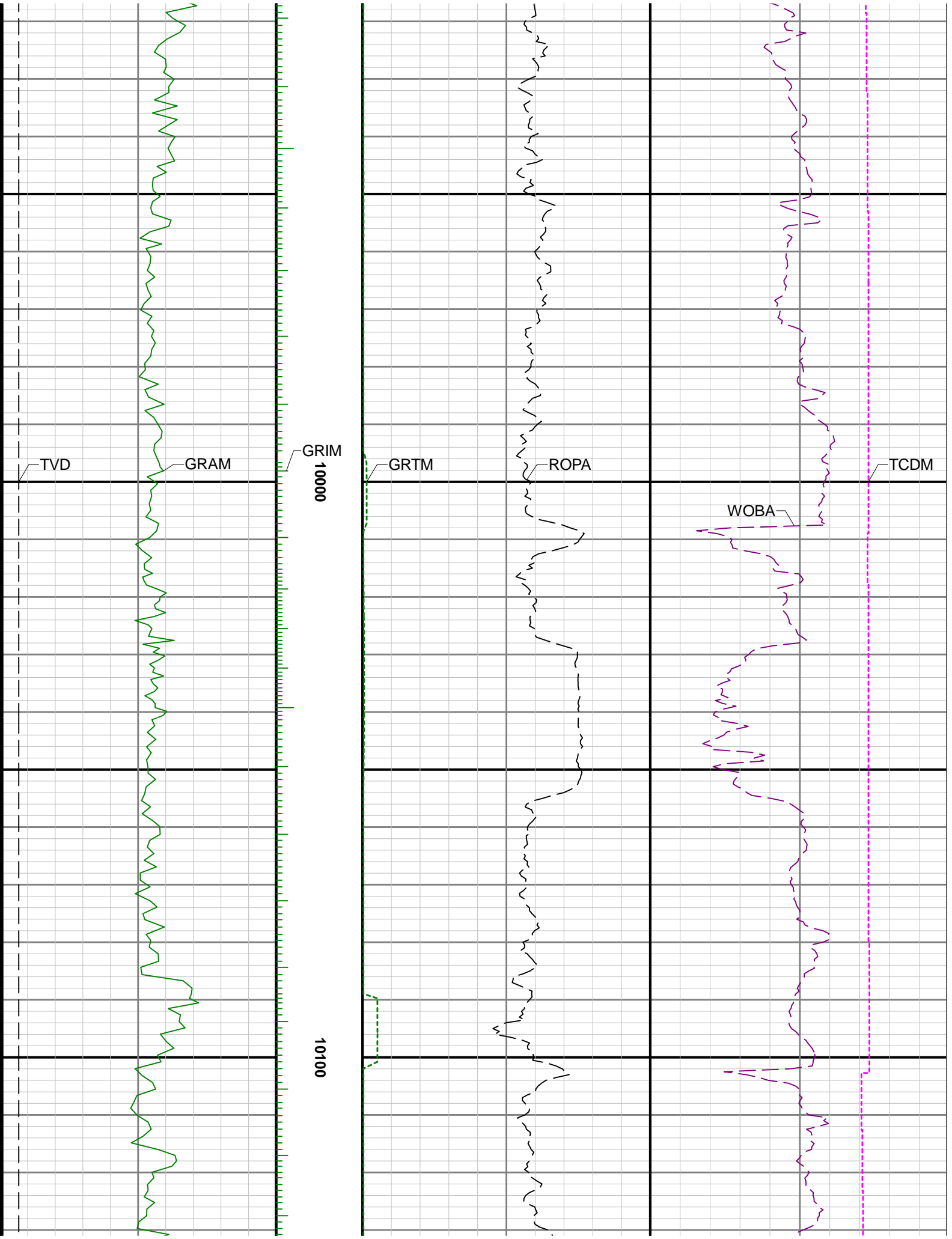


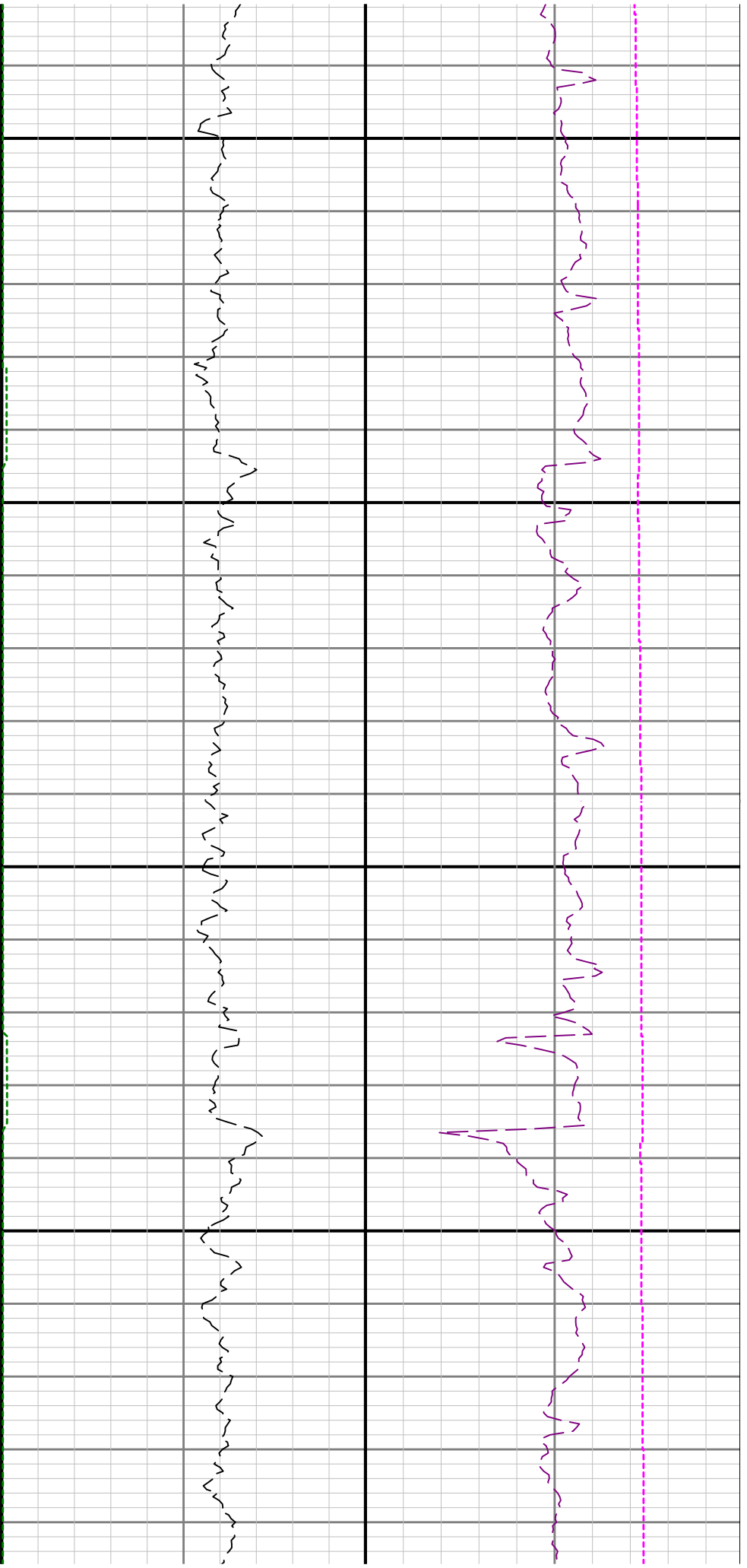




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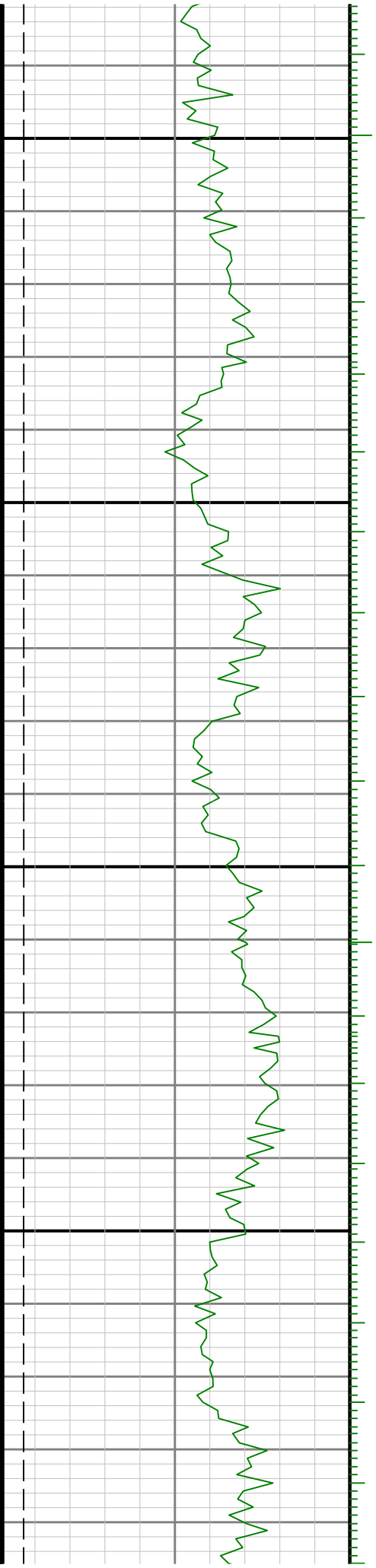
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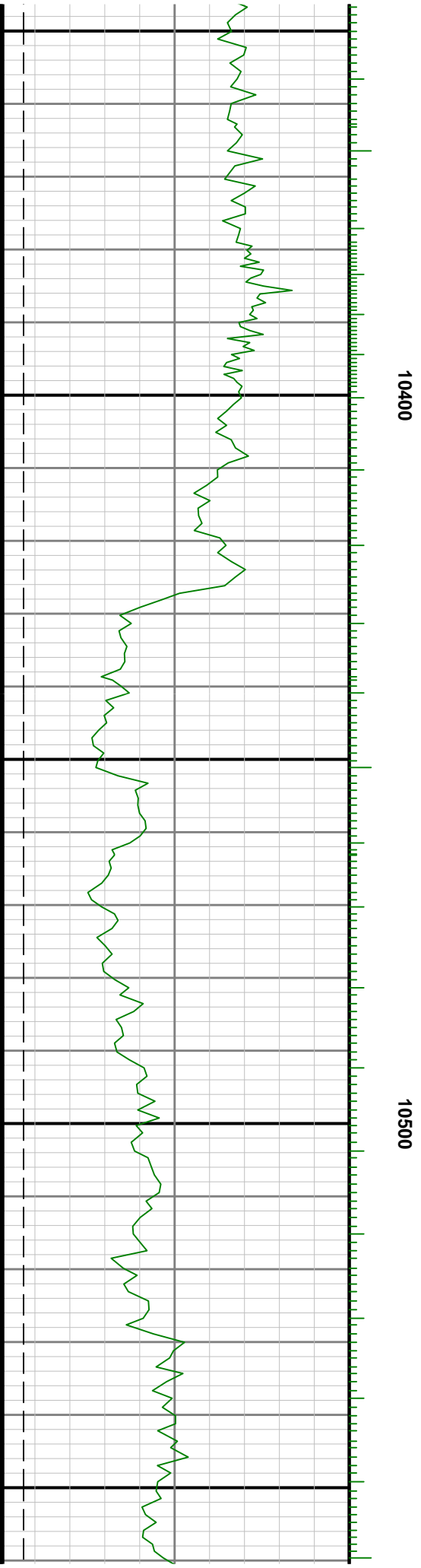
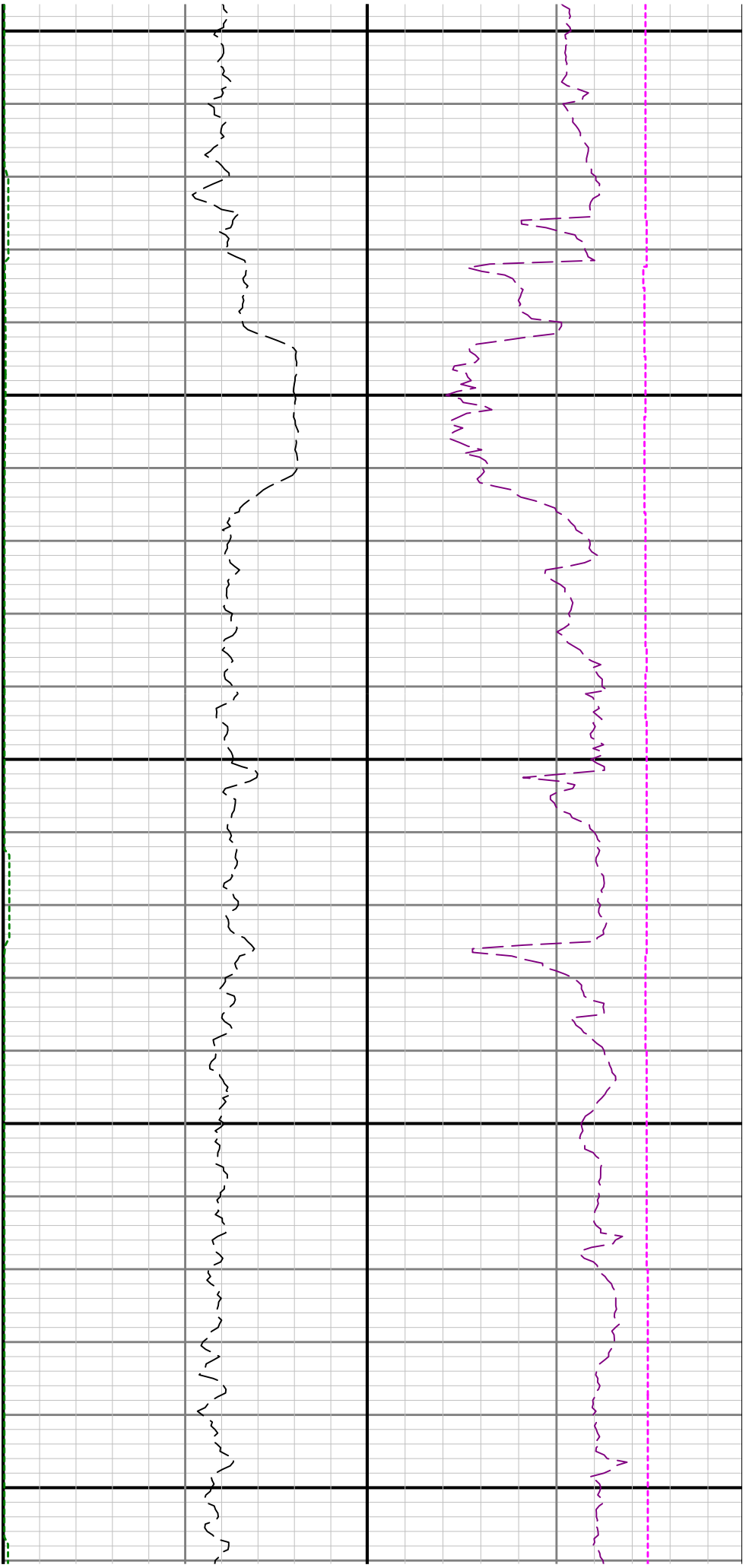


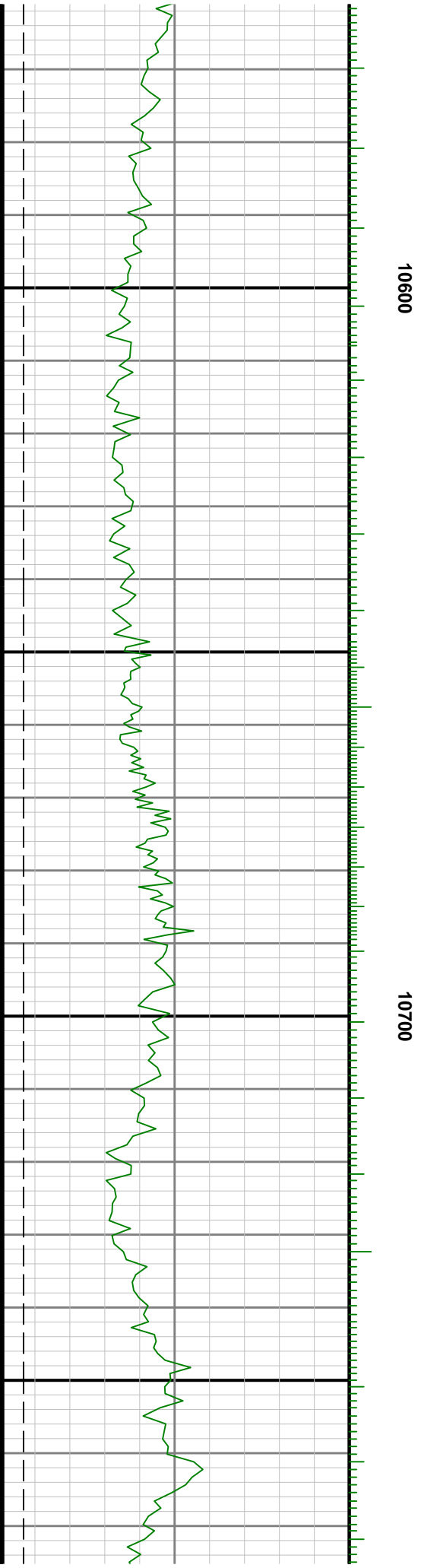
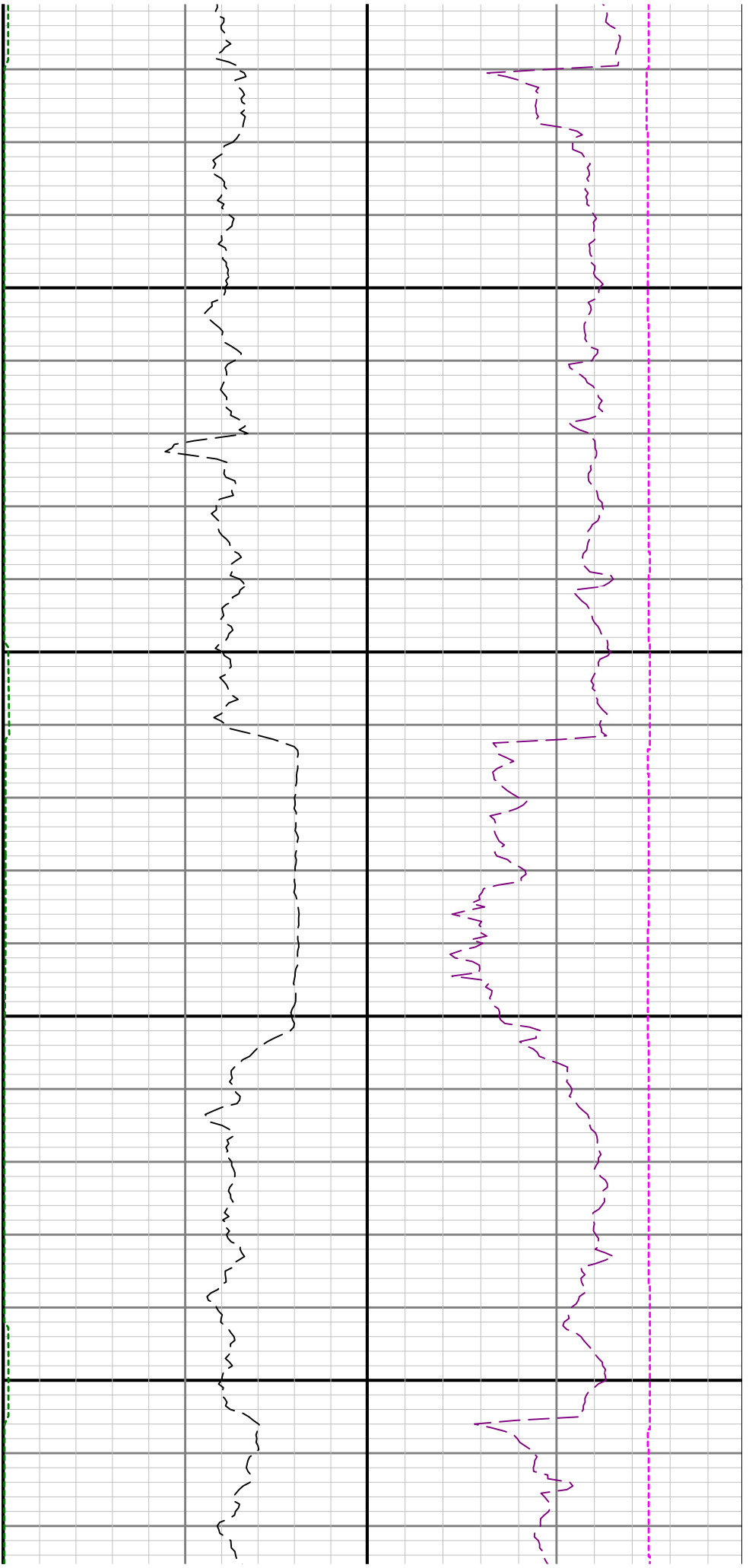


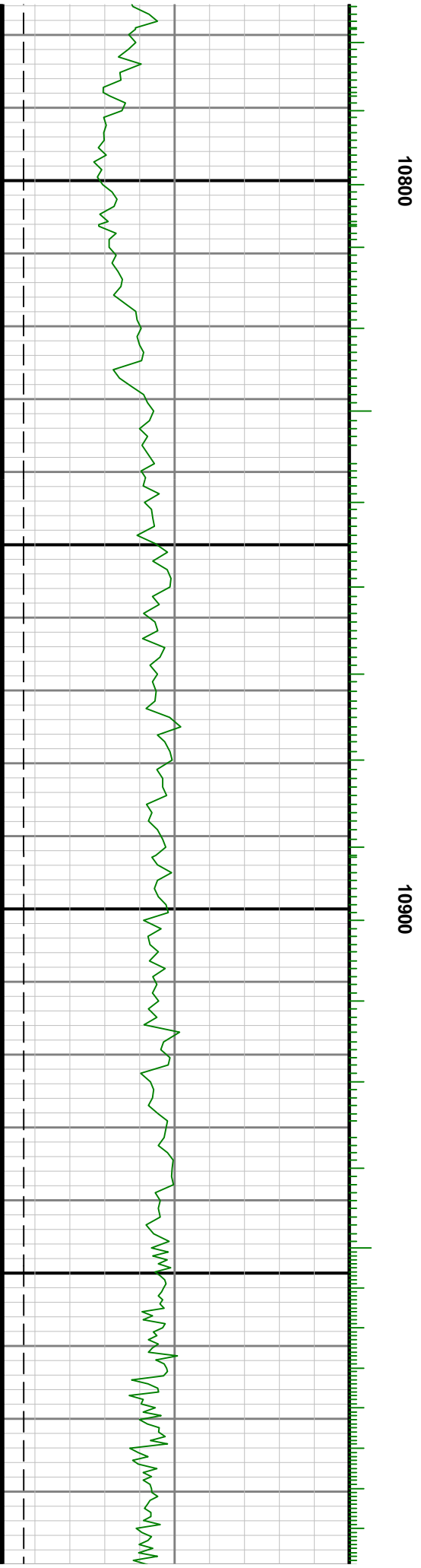
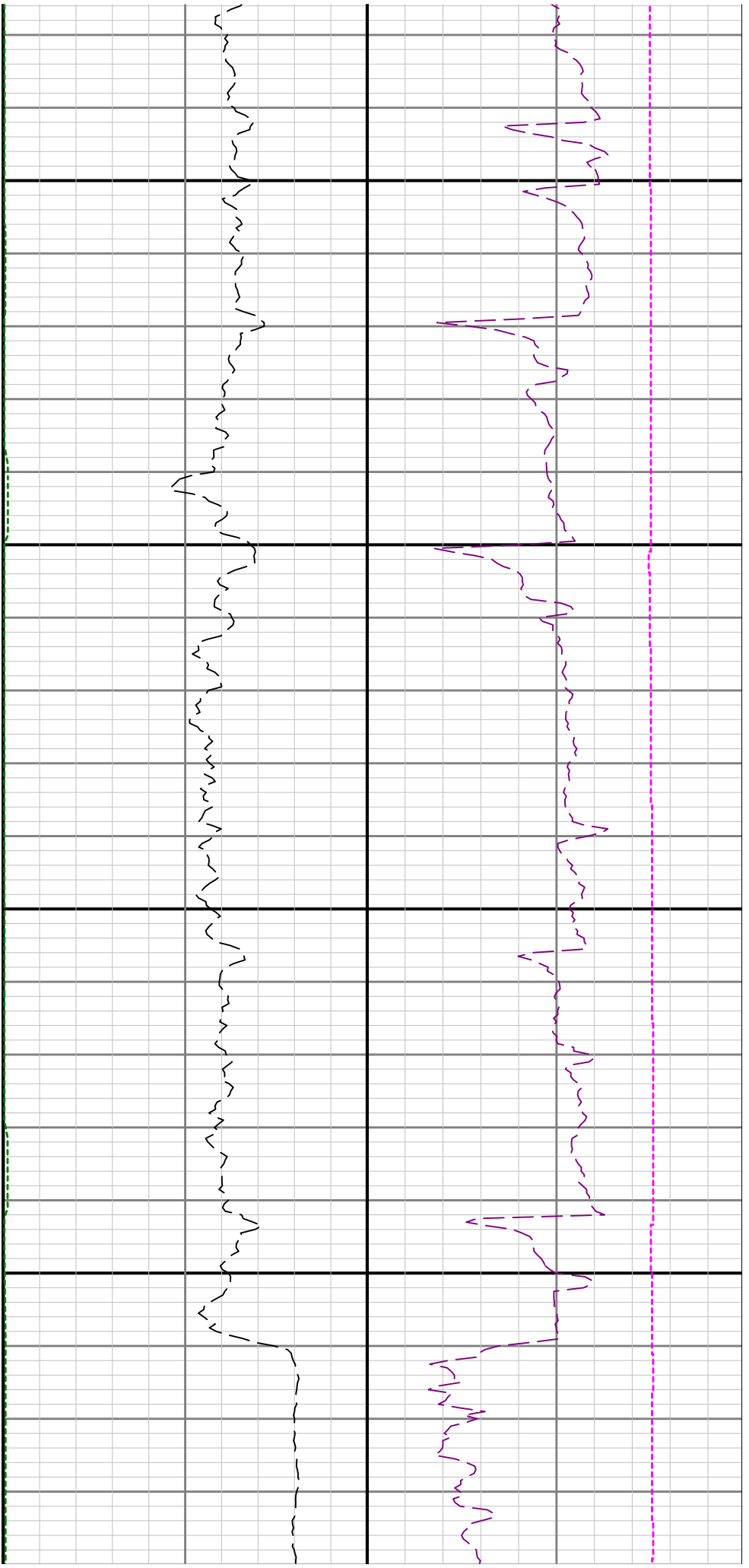
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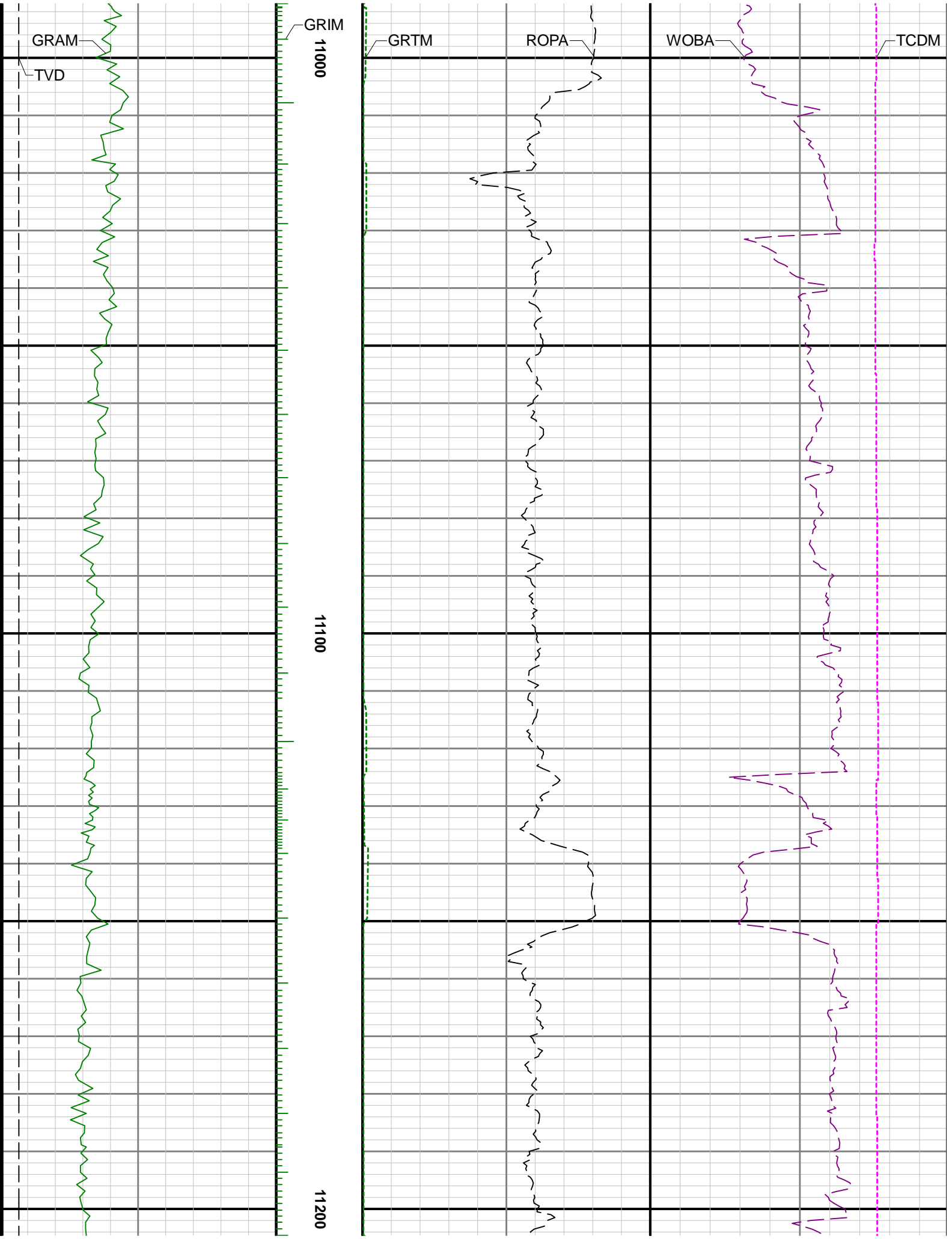
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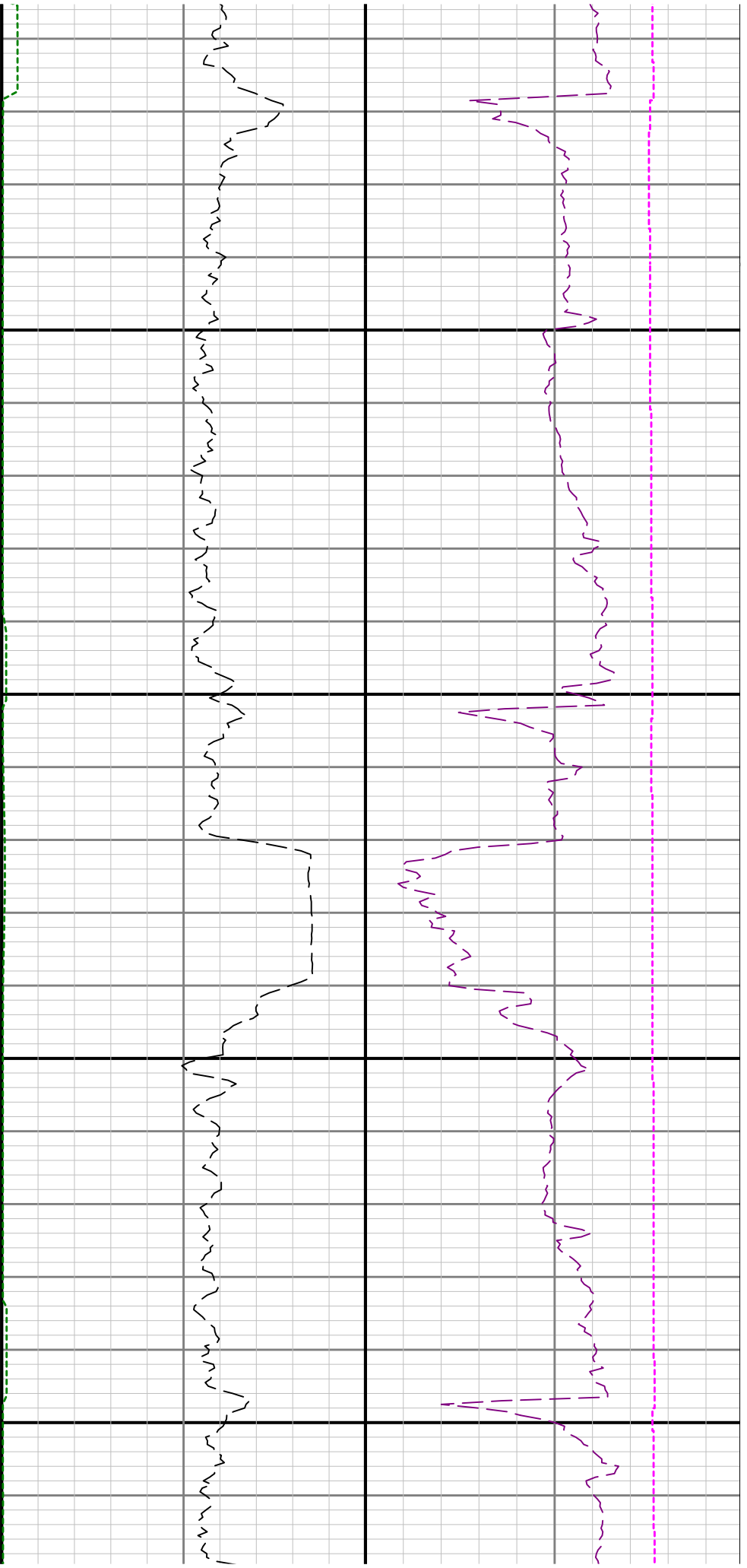






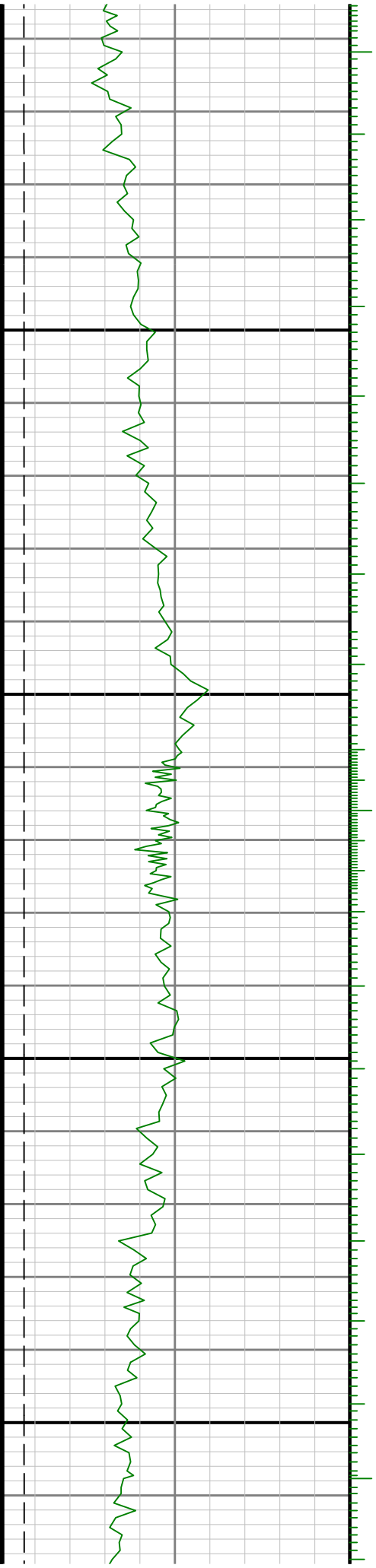


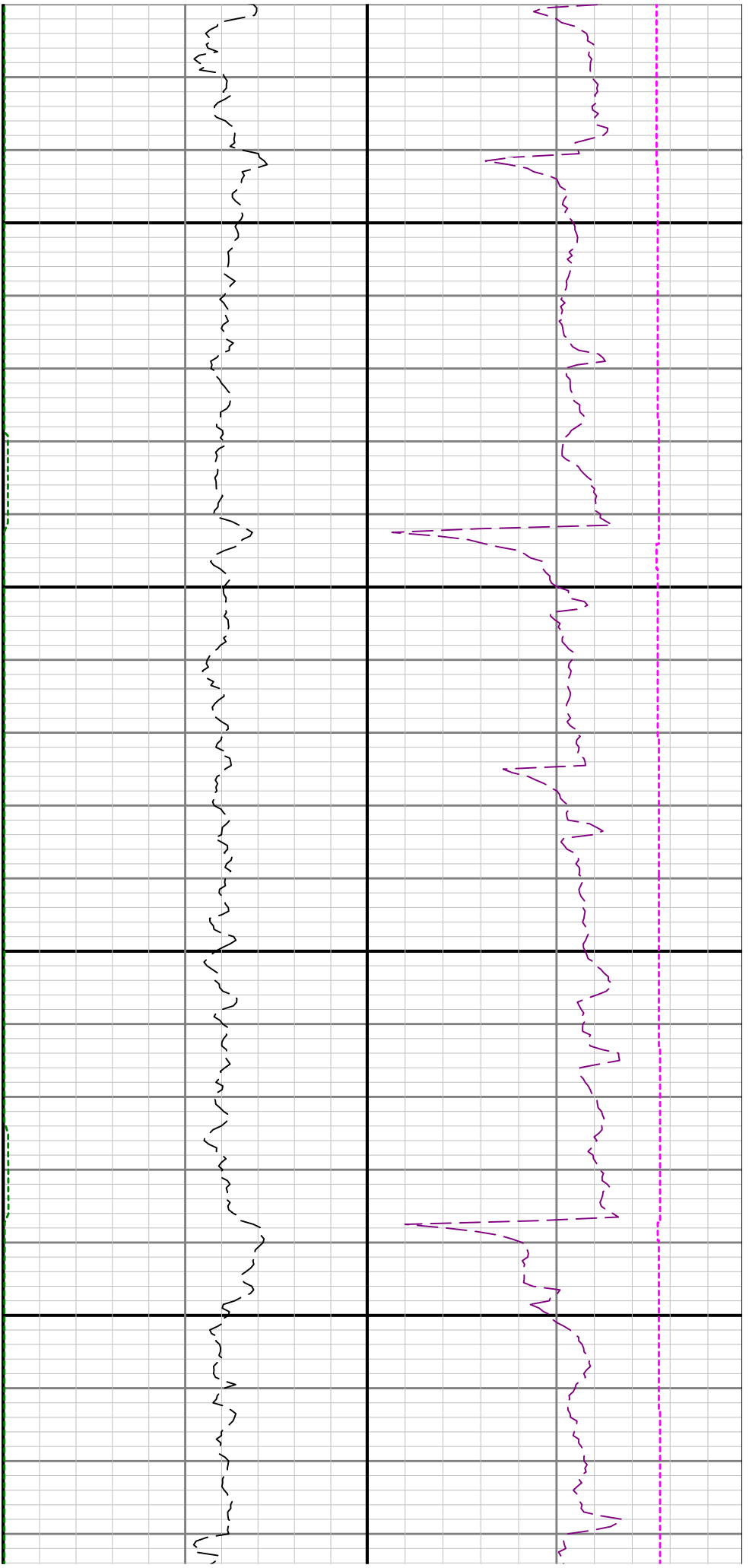




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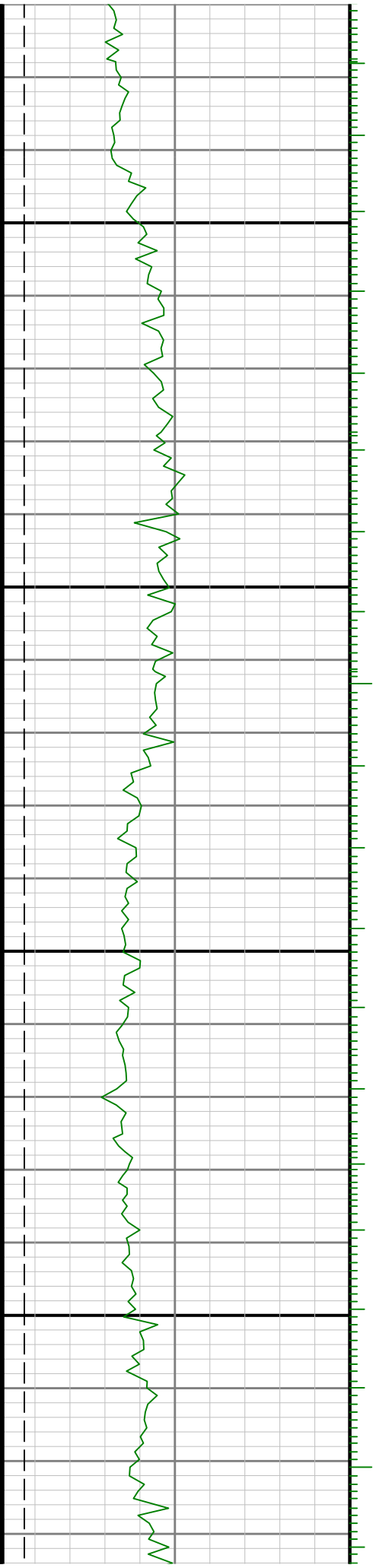
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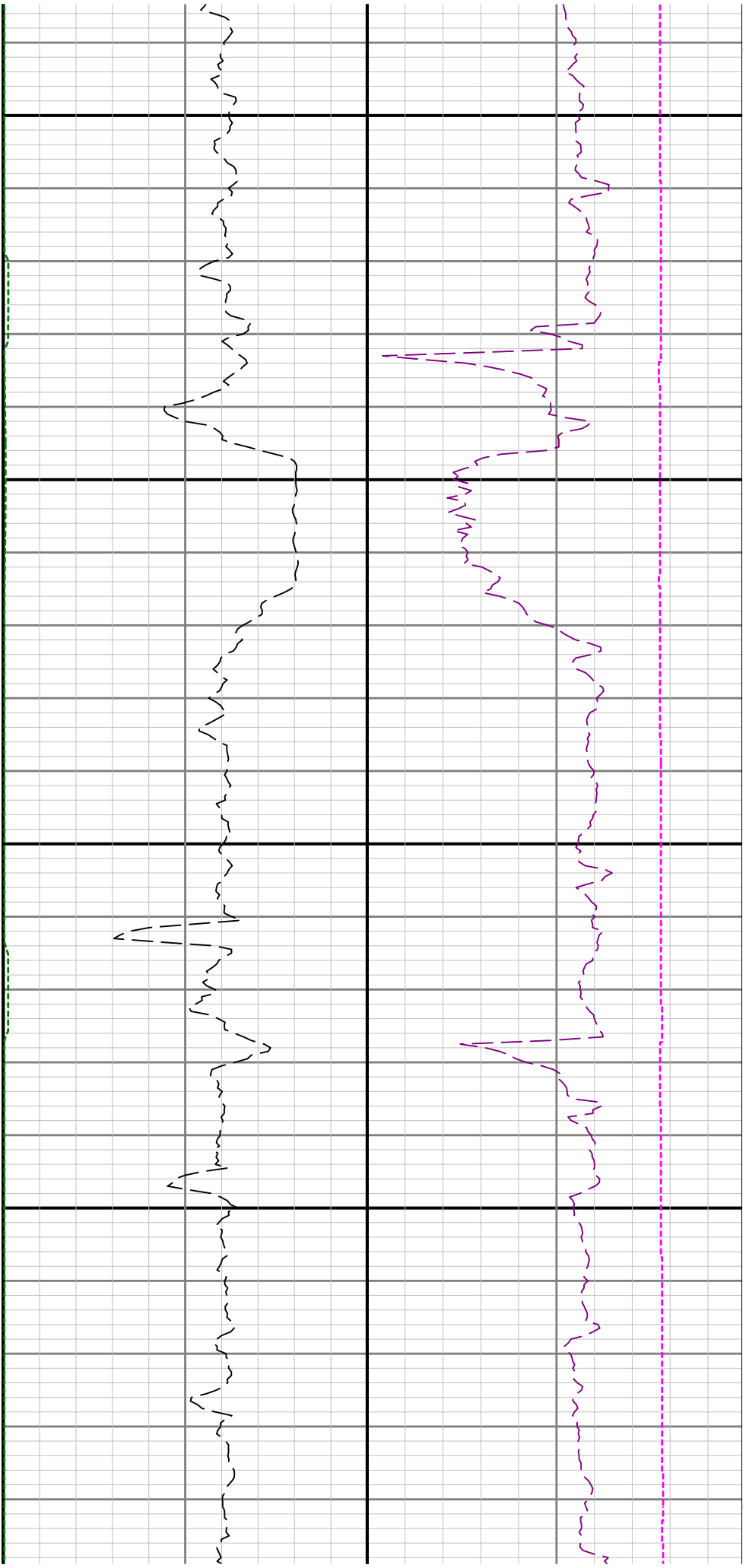




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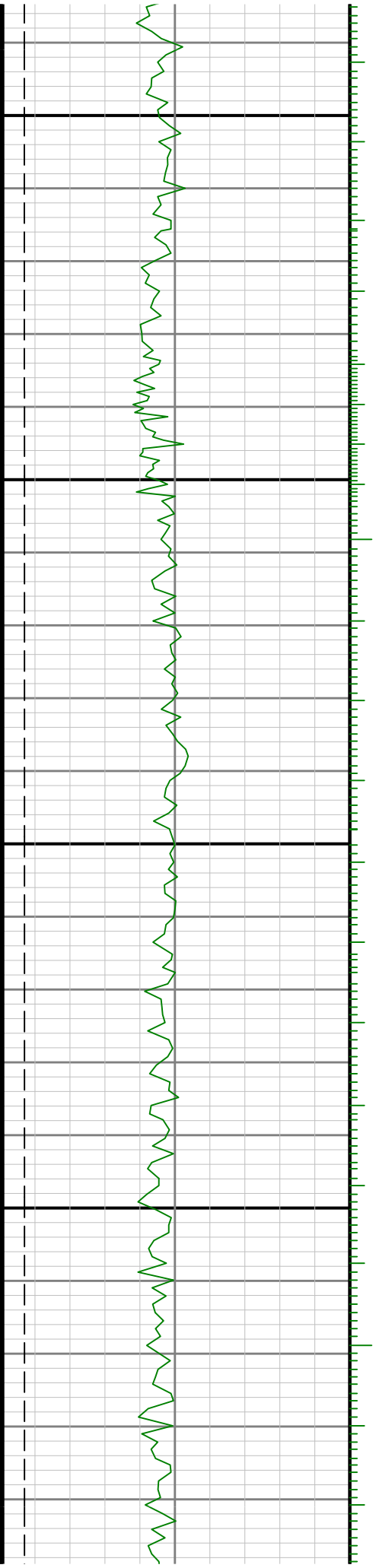
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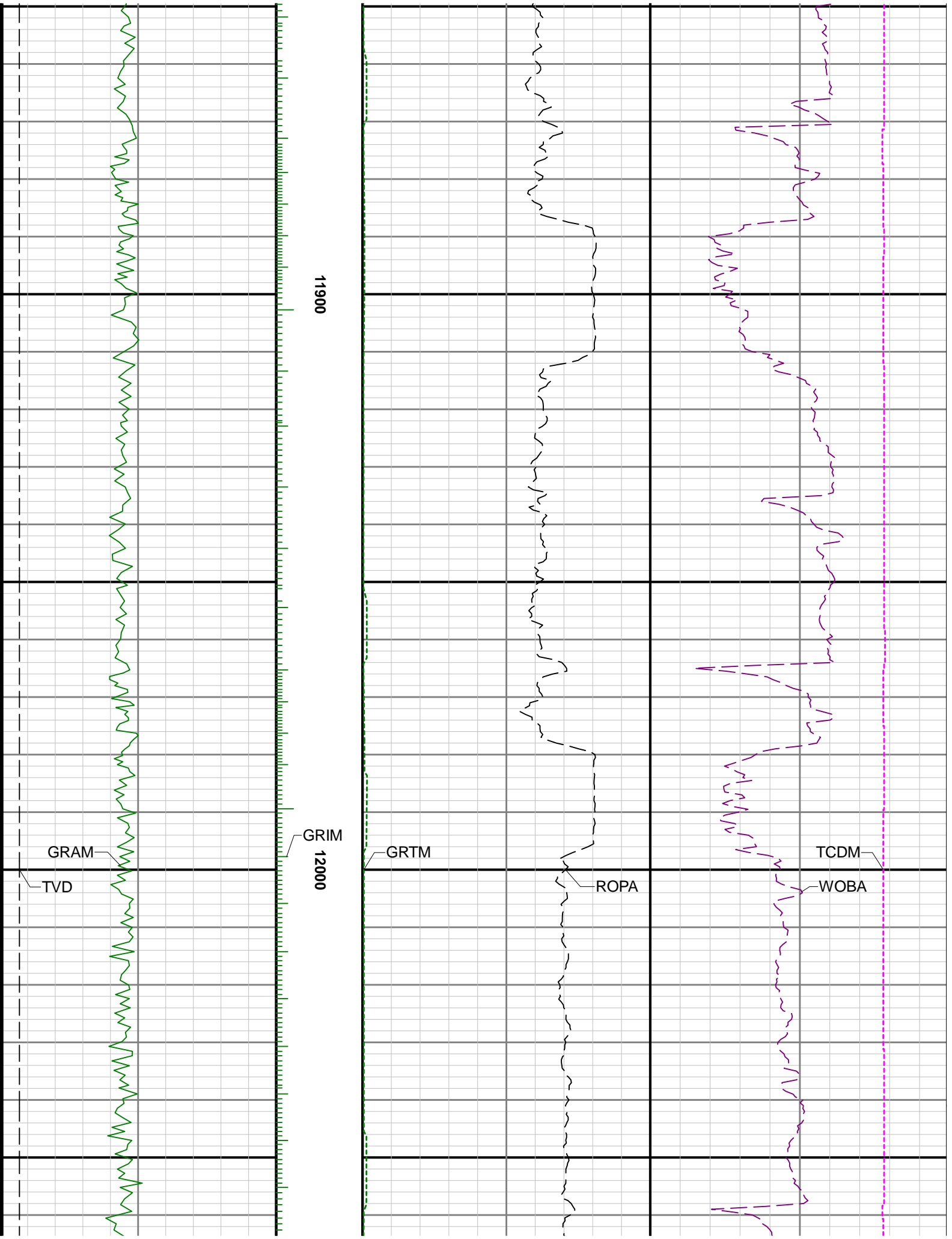


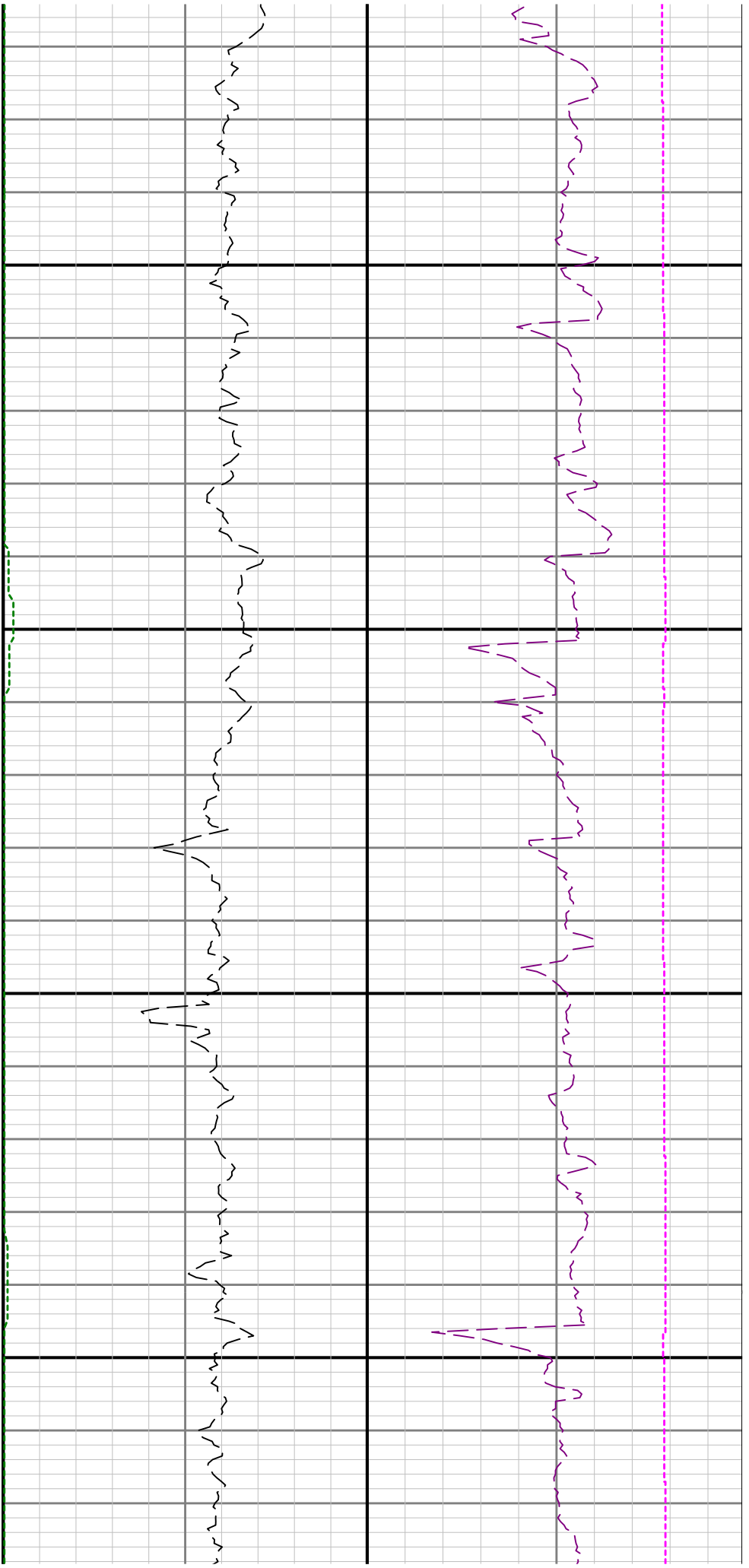


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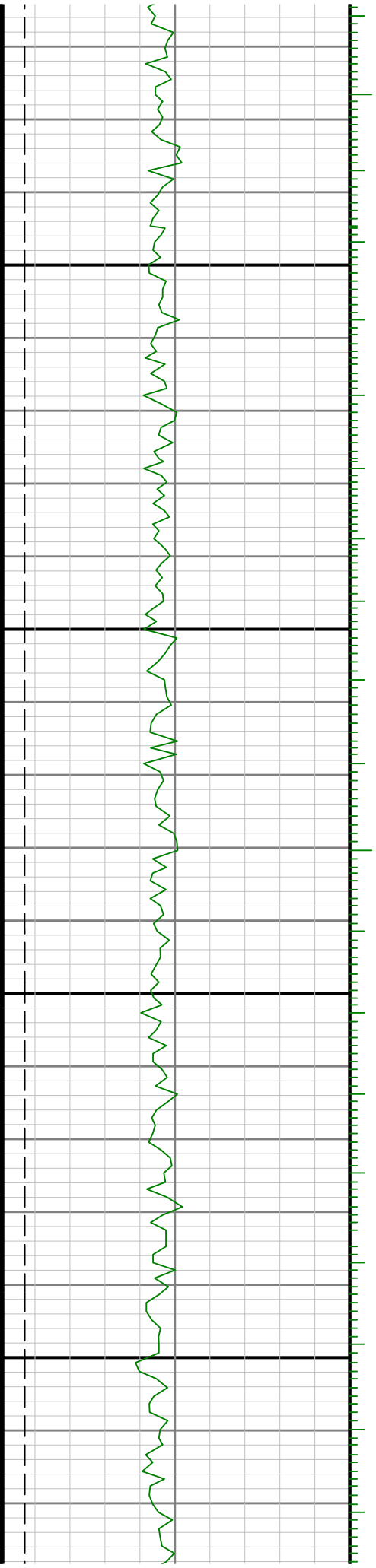


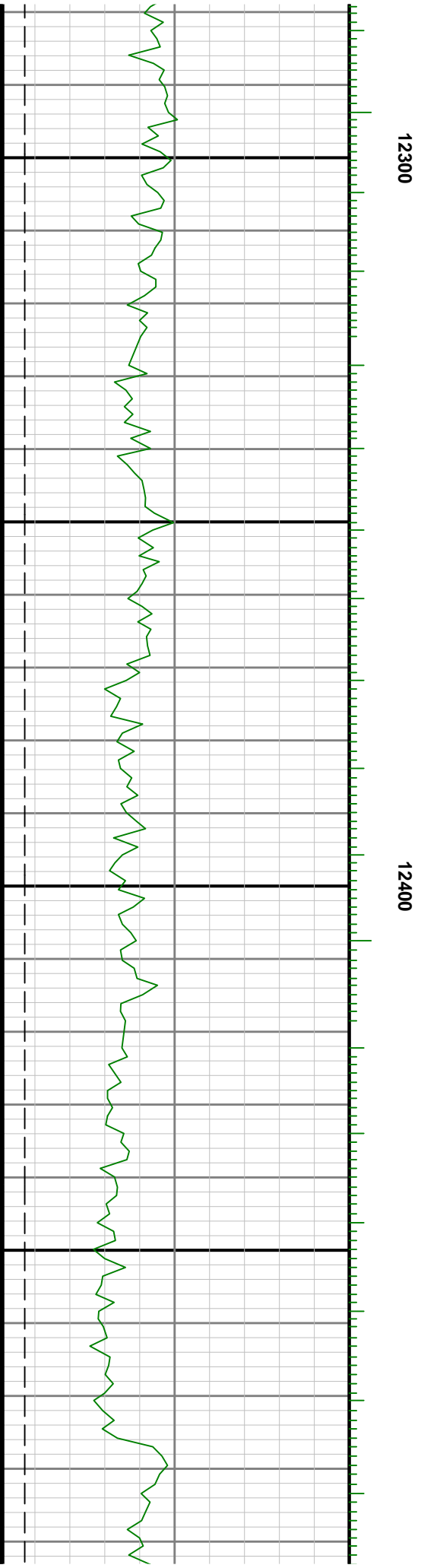
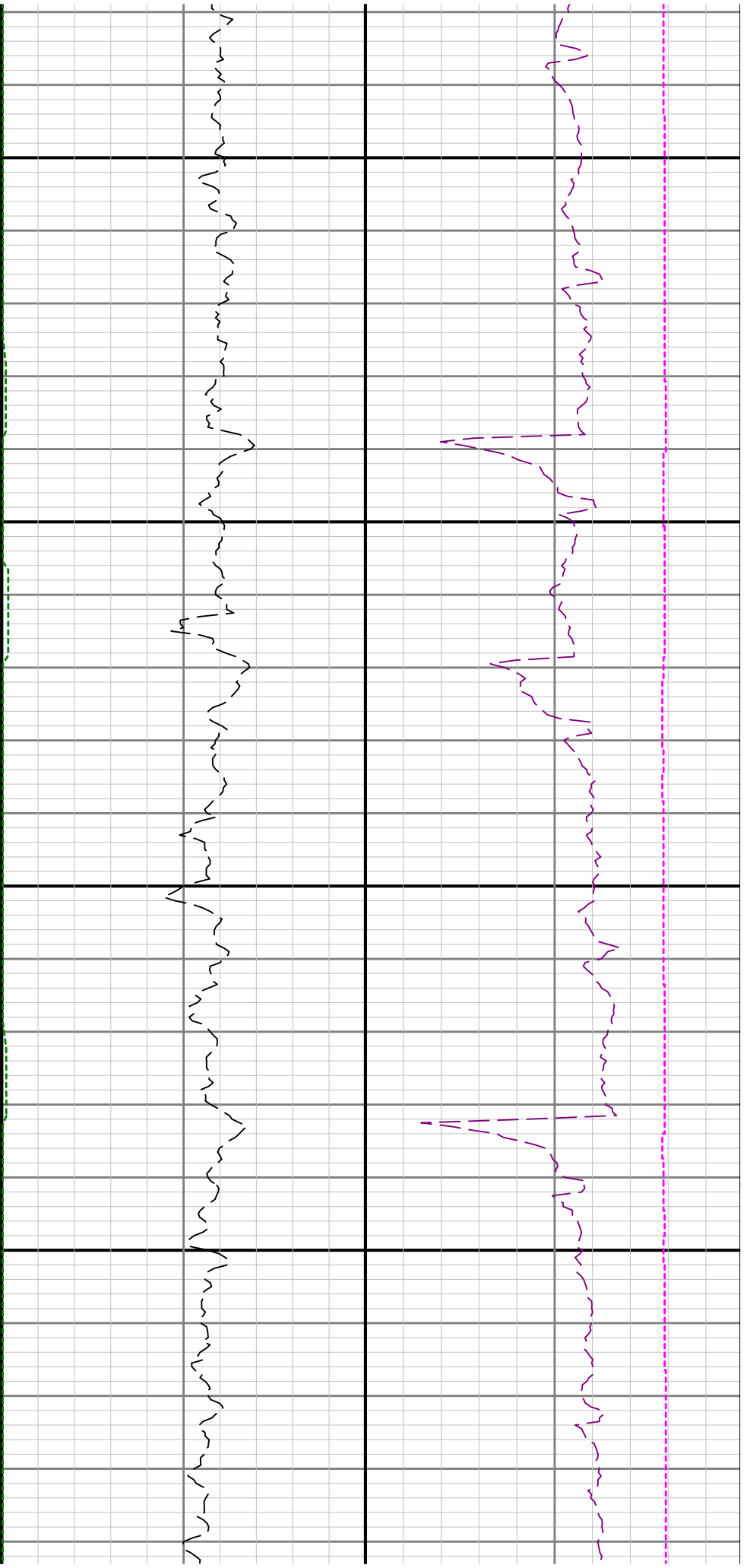


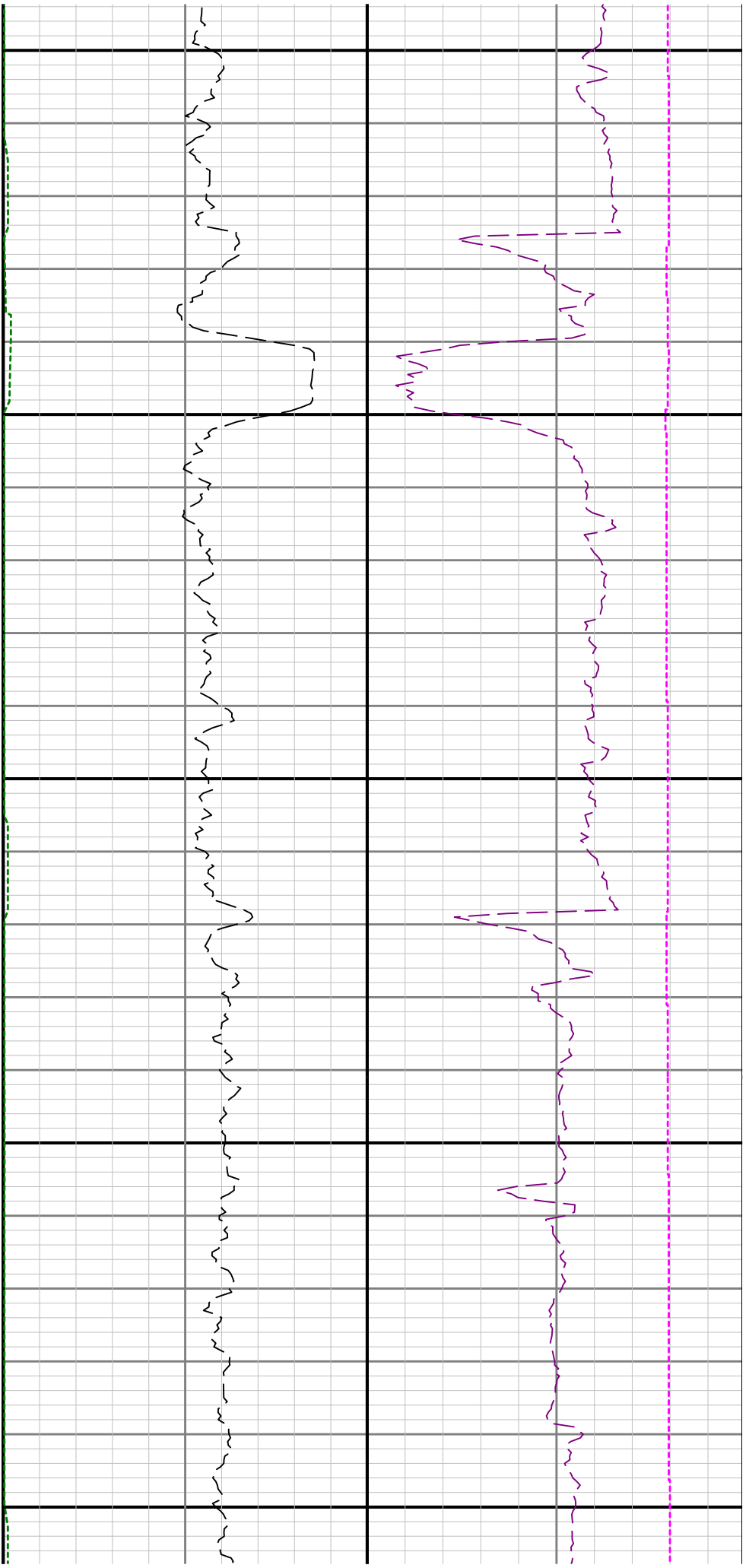


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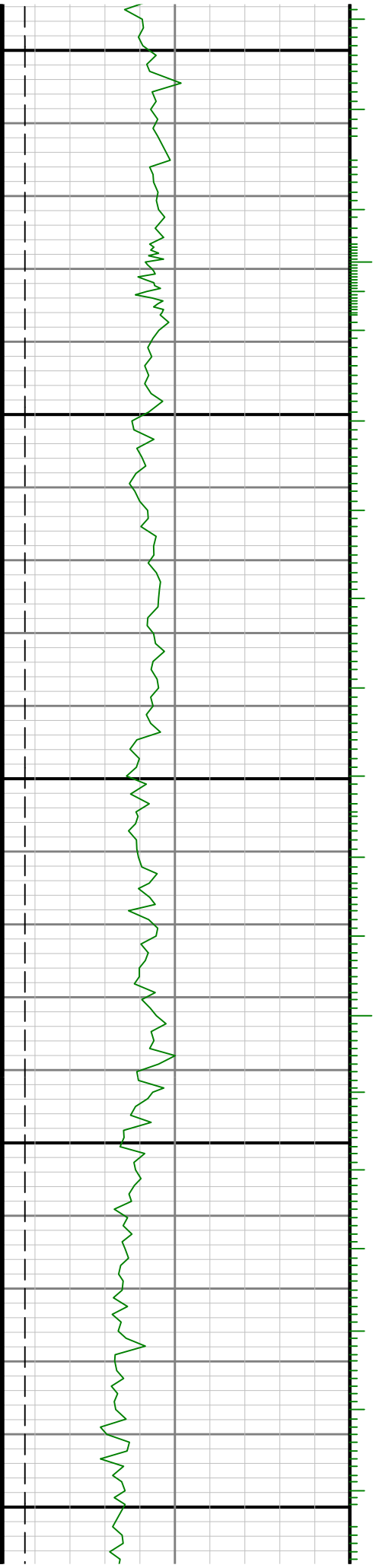


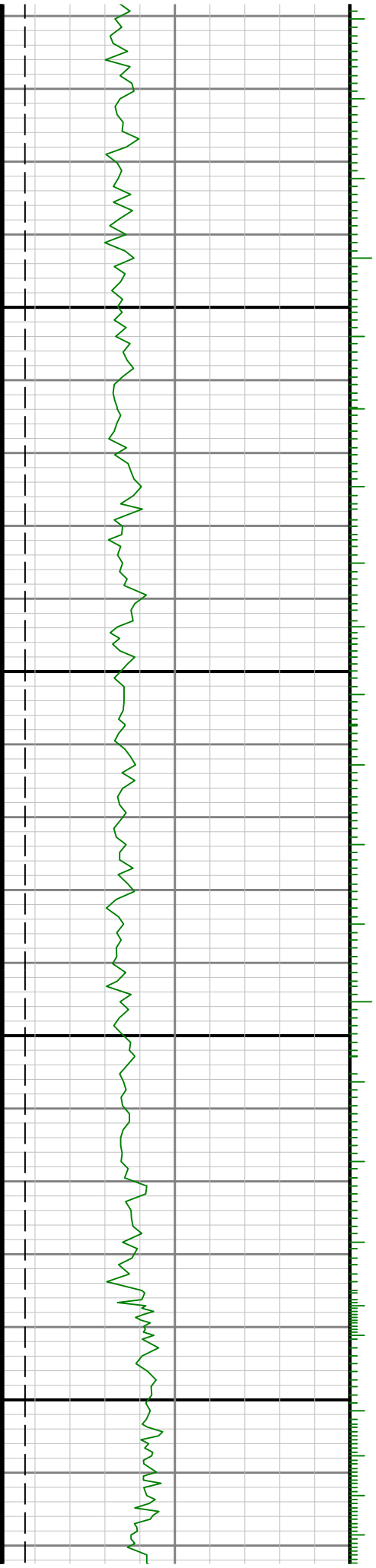
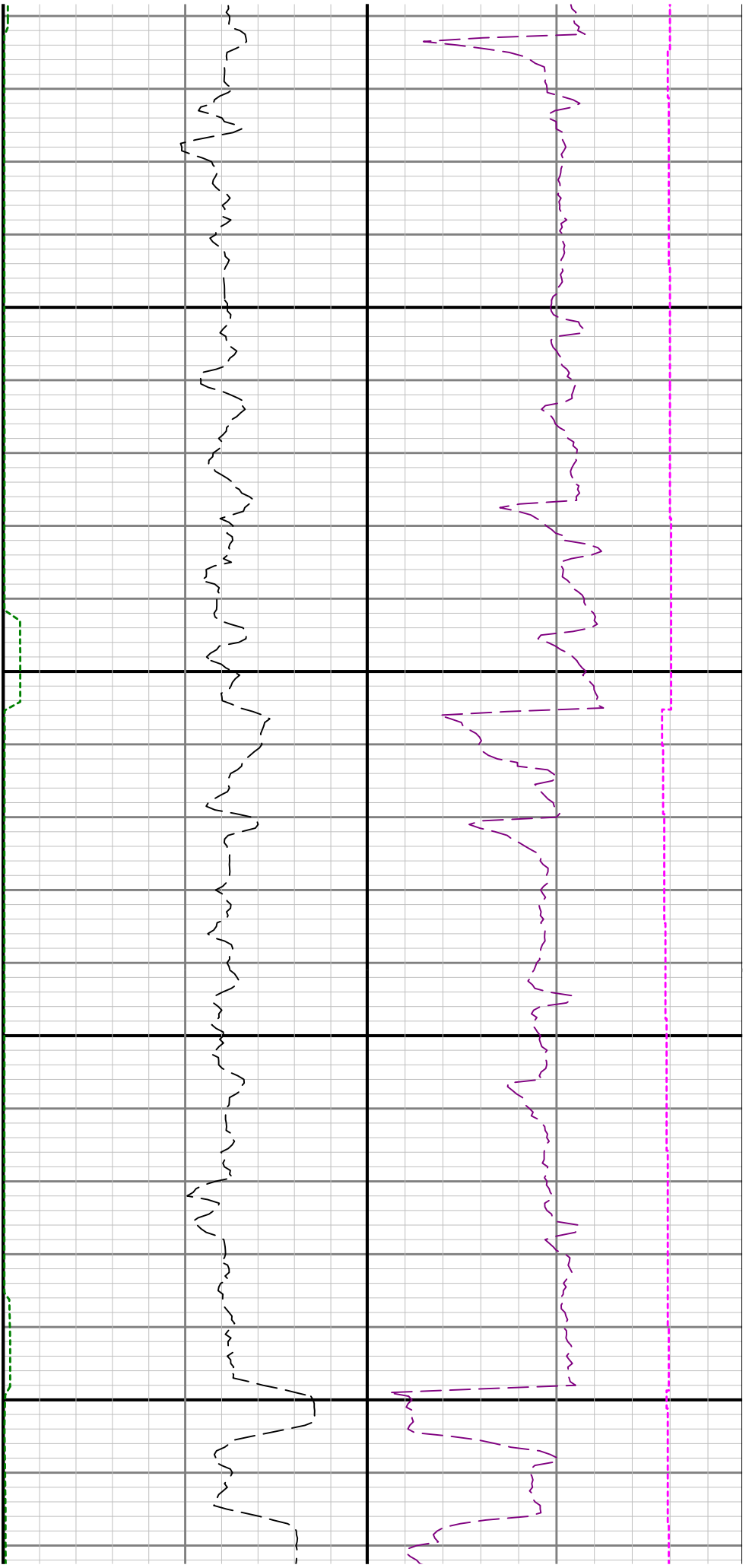


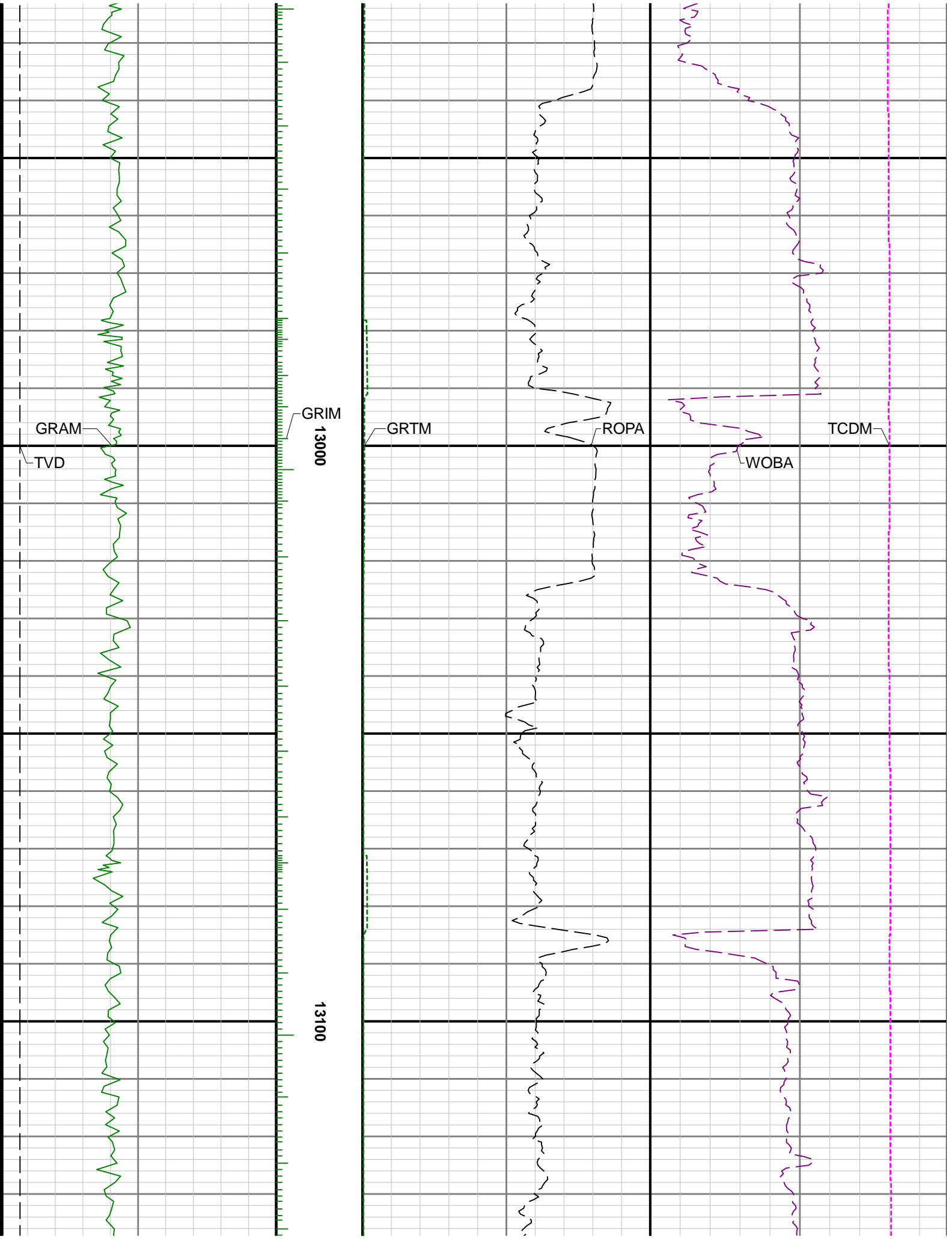
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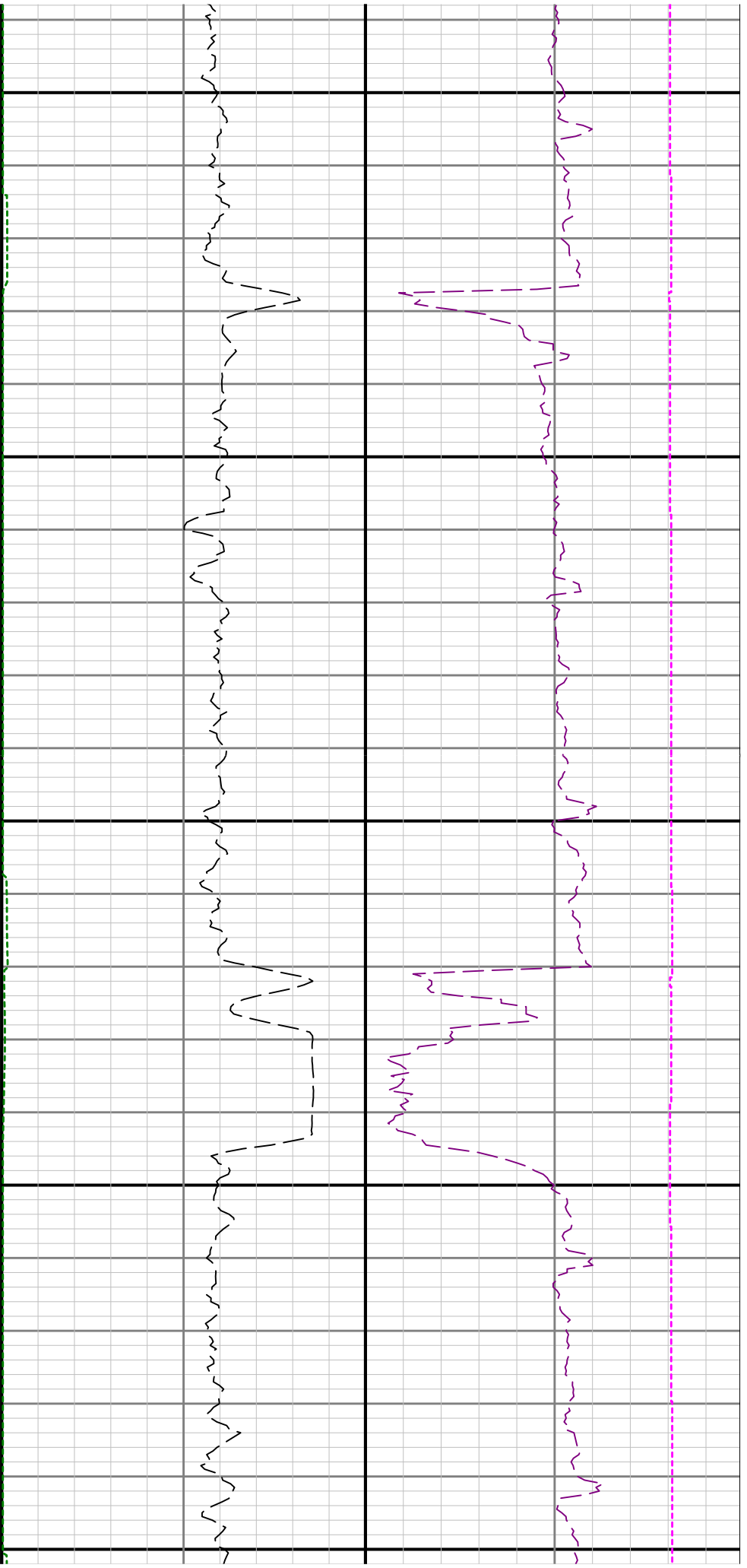
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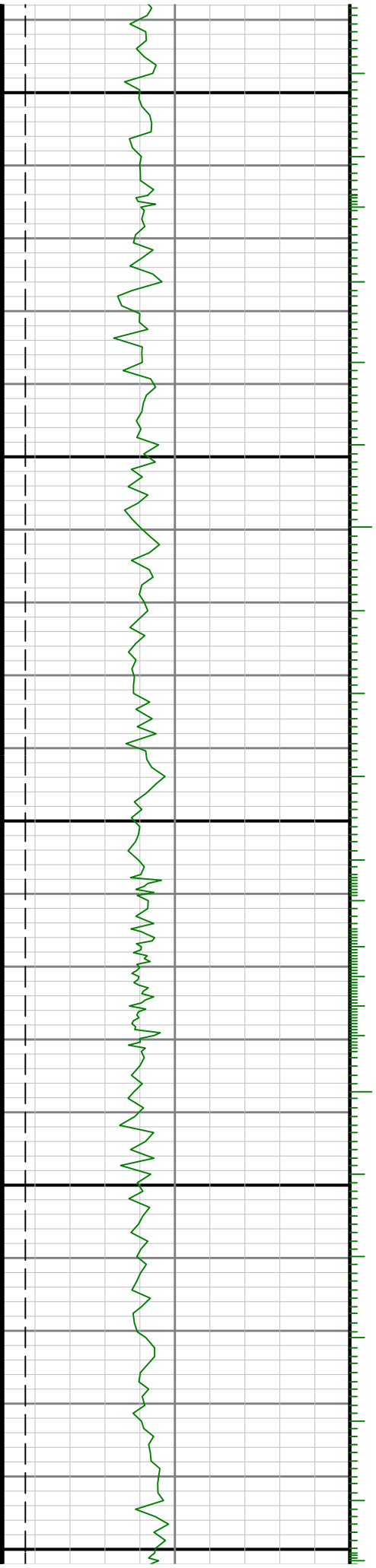


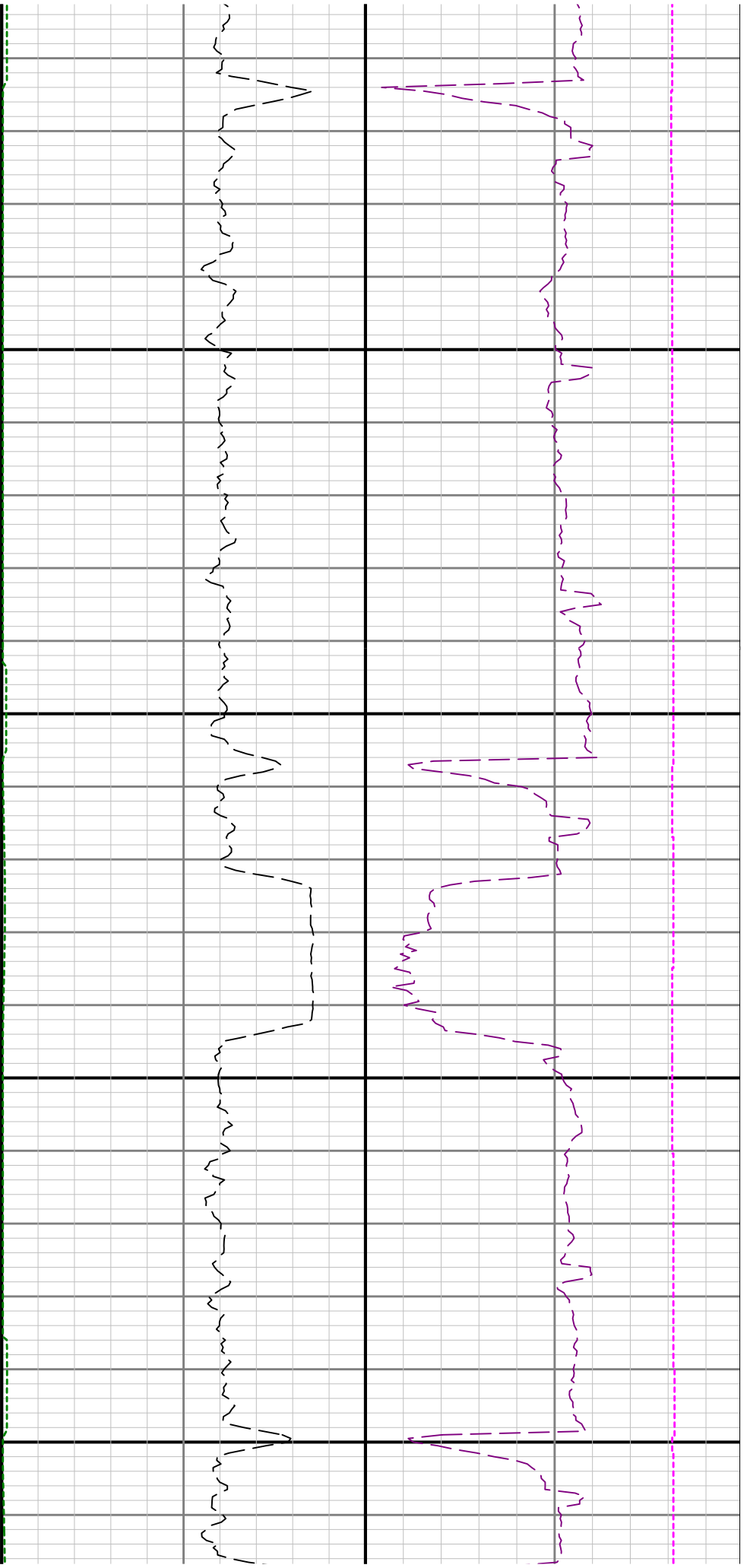




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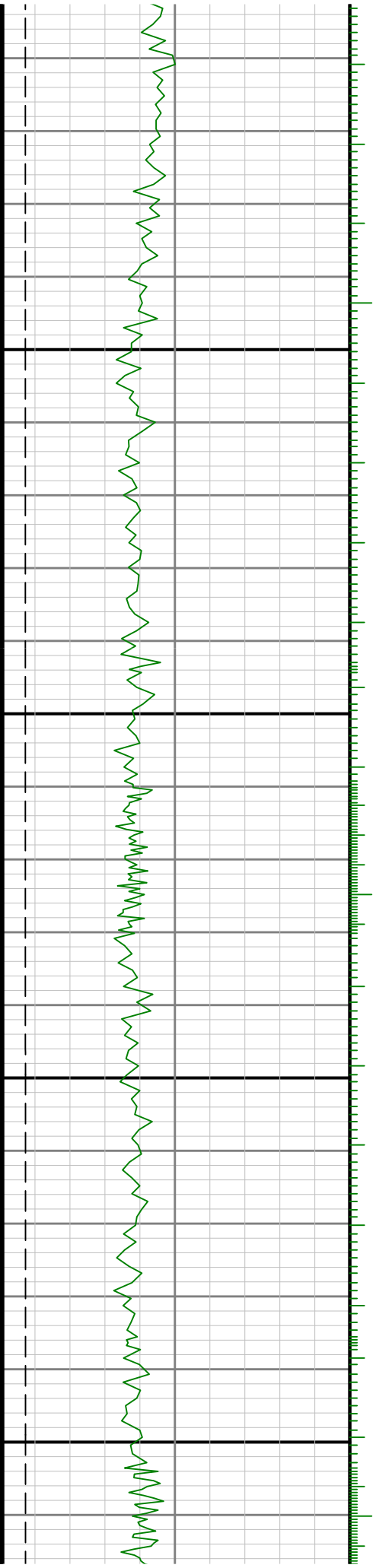
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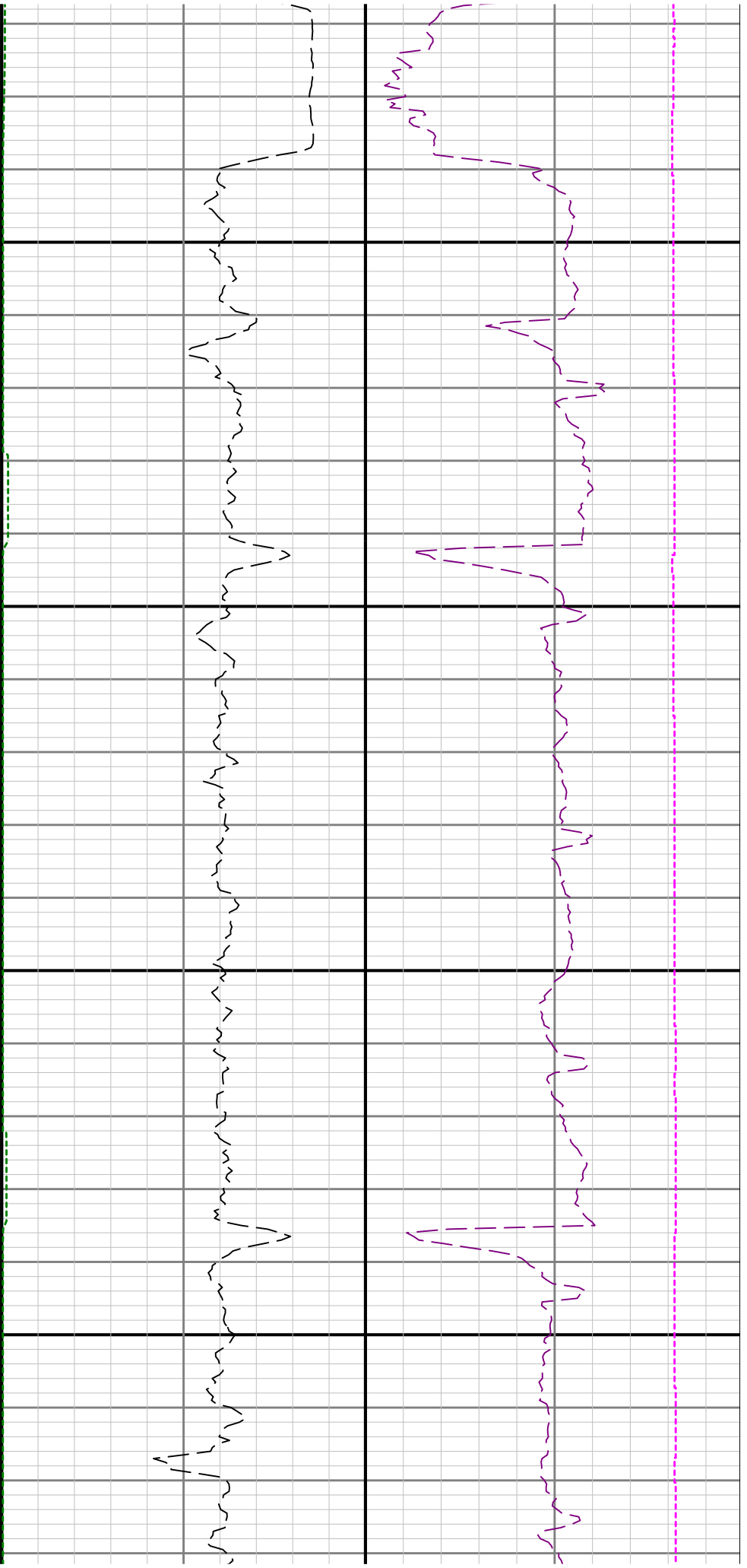




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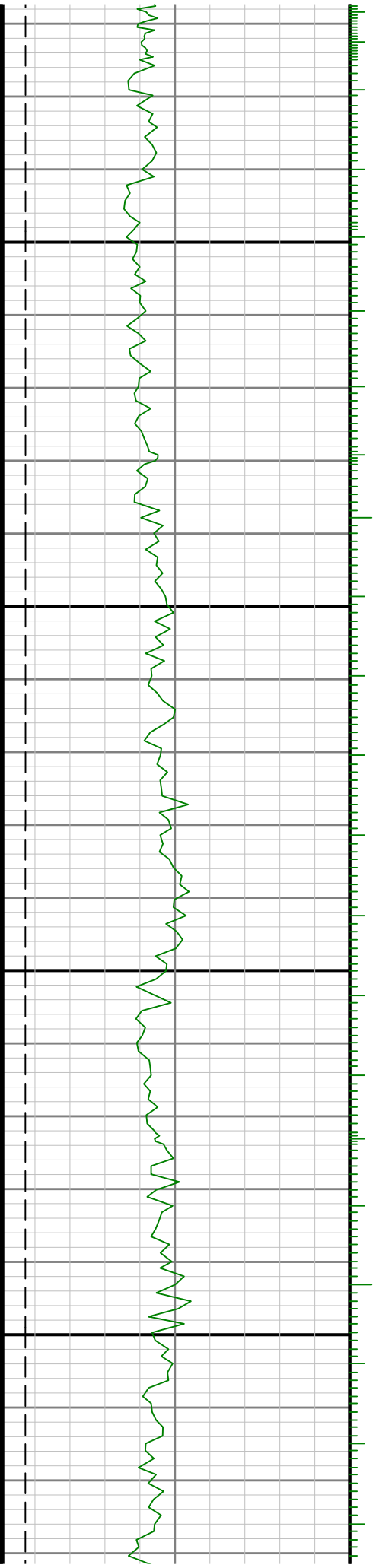
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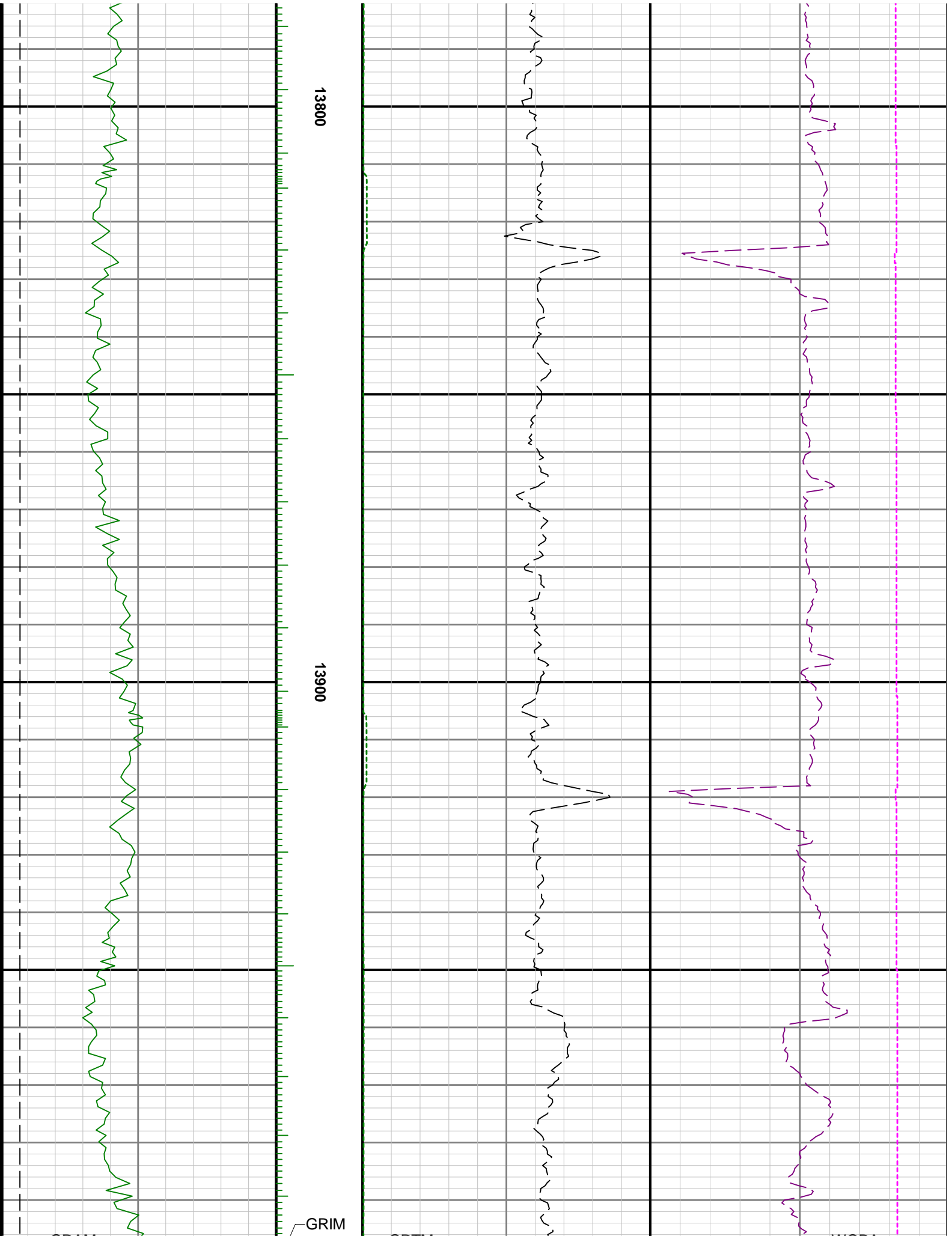




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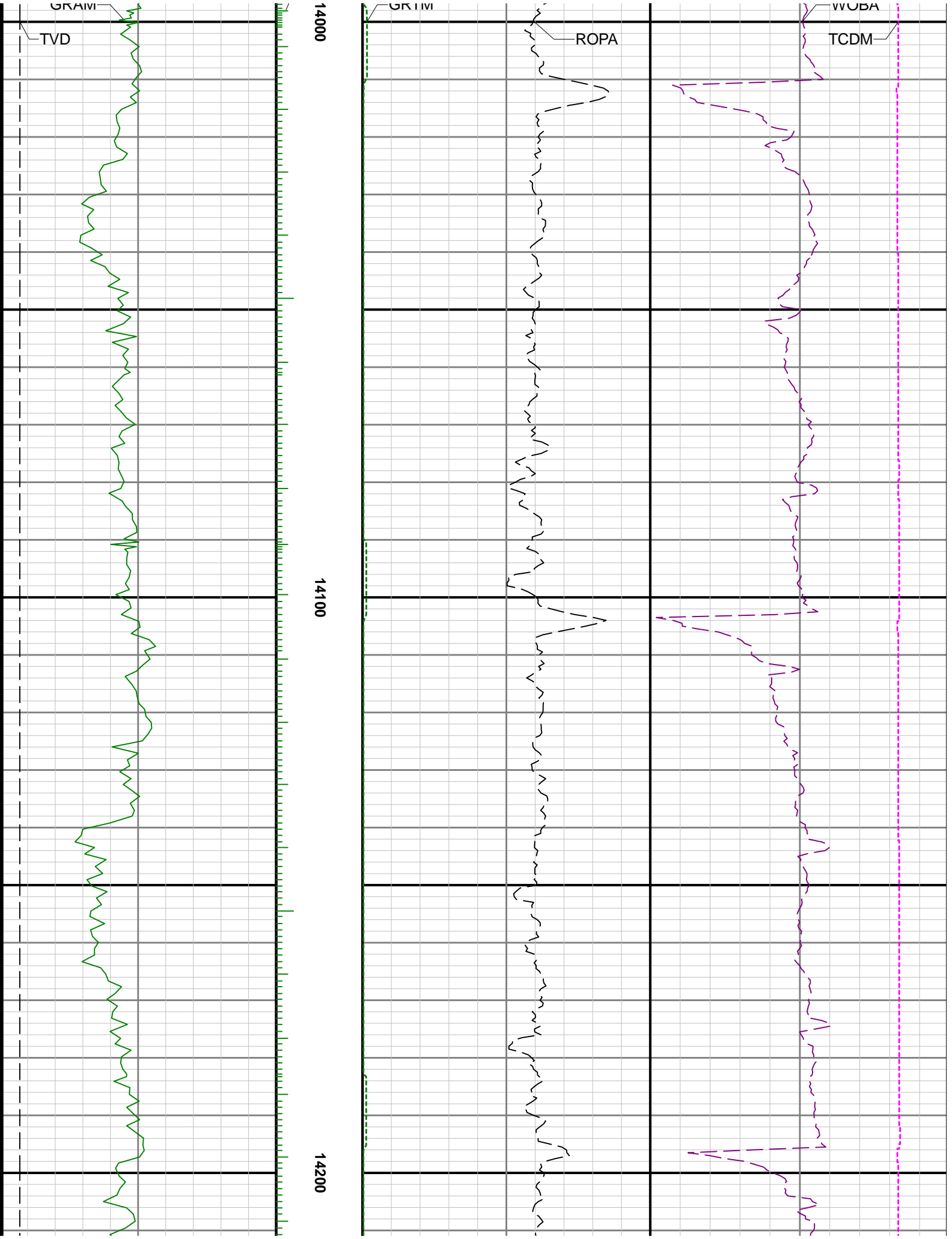


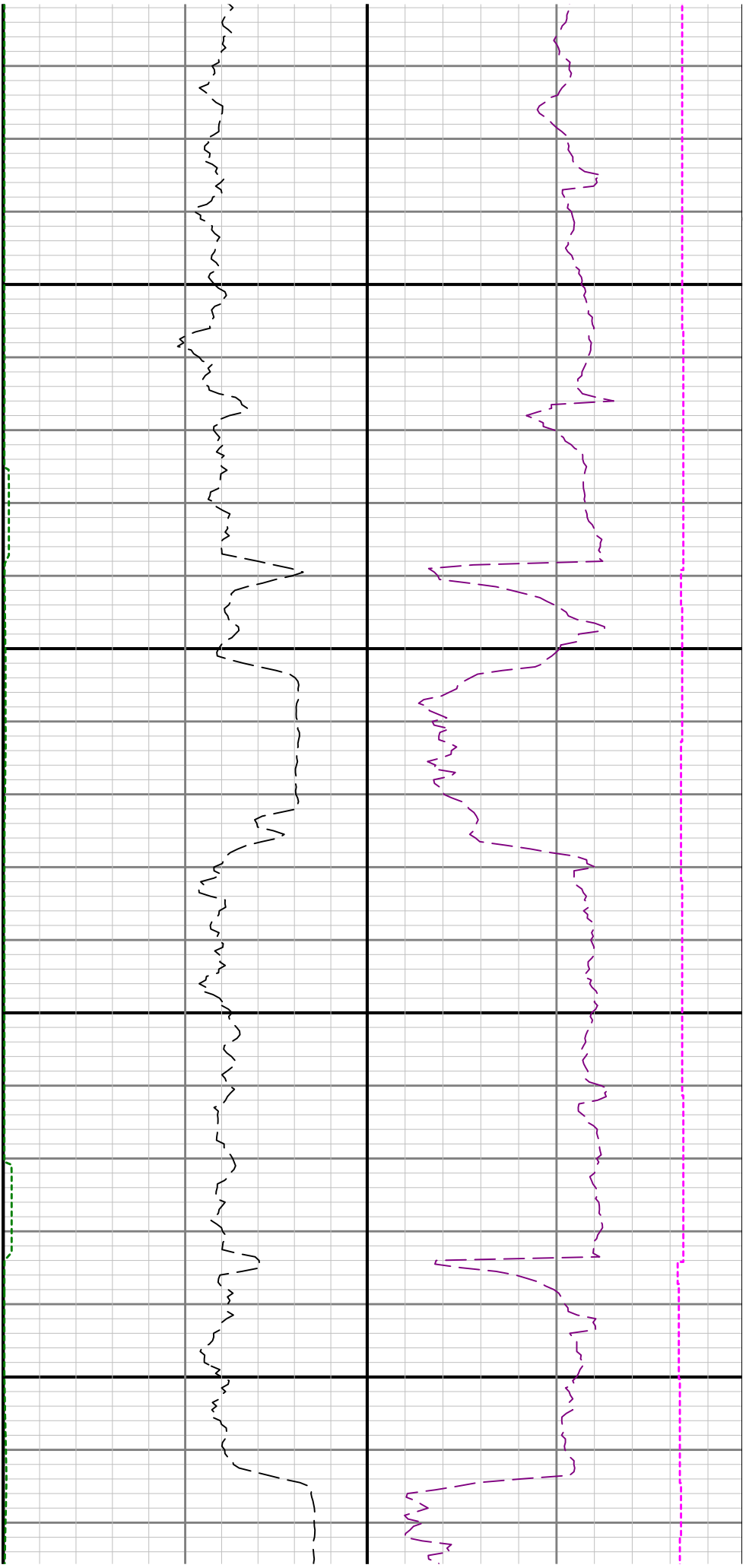


13800

13900

GRIM





14300

14400

