

John Moisan	2018-02-28	2018-03-05									
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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+ (%)
2017-12-27 01:40	1	4.00	Water Based Mud	8.4	N/A	N/A	N/A	N/A	Flow Line	500	0.00
2018-02-28 16:00	2	1825.00	Oil Based Mud	10.8	31	N/A	12.6	76/24	Active Pit	58000	0.00
2018-03-01 04:00	2	2609.00	Oil Based Mud	10.1	24	N/A	10.8	74/26	Active Pit	52000	0.00
2018-03-01 16:00	2	5970.00	Oil Based Mud	9.9	23	N/A	5.4	76/24	Active Pit	47000	0.00
2018-03-02 04:00	2	8374.00	Oil Based Mud	10.0	25	N/A	5.0	77/23	Active Pit	44000	0.00
2018-03-02 16:00	2	10825.00	Oil Based Mud	10.0	27	N/A	9.8	77/23	Active Pit	46000	0.00
2018-03-03 03:30	2	12873.00	Oil Based Mud	10.0	22	N/A	5.2	78/22	Active Pit	44000	0.00
2018-03-03 16:00	3	12992.00	Oil Based Mud	10.0	22	N/A	5.5	78/22	Active Pit	42000	0.00
2018-03-04 04:00	3	14457.00	Oil Based Mud	10.2	29	N/A	4.9	77/23	Active Pit	42000	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	ZAPS230925	Gamma (single)	8.52	58.70	8.000	3.250
1	Sensor Sub	ZAPS230925	Directional (mag)	9.93	60.11	8.000	3.250
1	Sensor Sub	ZAPS230925	VSS	9.93	60.11	8.000	3.250
1	Sensor Sub	ZAPS230925	Pressure	30.52	80.70	8.000	3.250
2	ATC_SU	13867780	Near Bit VSS	5.93	6.73	7.000	4.330
2	ATC_SU	13867780	Near Bit Inclination	5.93	6.73	7.000	4.330
2	ATC_MWD	12316739	Gamma (single)	2.76	12.90	7.000	3.250
2	ATC_MWD	12316739	Directional (mag)	12.28	22.42	7.000	3.250
3	ATC_SU	13867780	Near Bit VSS	5.93	6.73	7.000	4.330
3	ATC_SU	13867780	Near Bit Inclination	5.93	6.73	7.000	4.330
3	ATC_MWD	12316739	Gamma (single)	2.76	12.90	7.000	3.250
3	ATC_MWD	12316739	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	Depths and depth measurements were 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. These unverified depths are being used to represent logging data.
2	Logging was suspended from 1817 feet MD (1817 feet TVD) to 1817 feet TVD). No logging data was acquired during this run.
3	Logging was suspended from 1841 feet MD (1841 feet TVD) to 15762 feet MD (1817 to 6949 feet TVD).
4	Gamma Ray Apparent (GRAM) is presented 0 to 300 API per customer request.

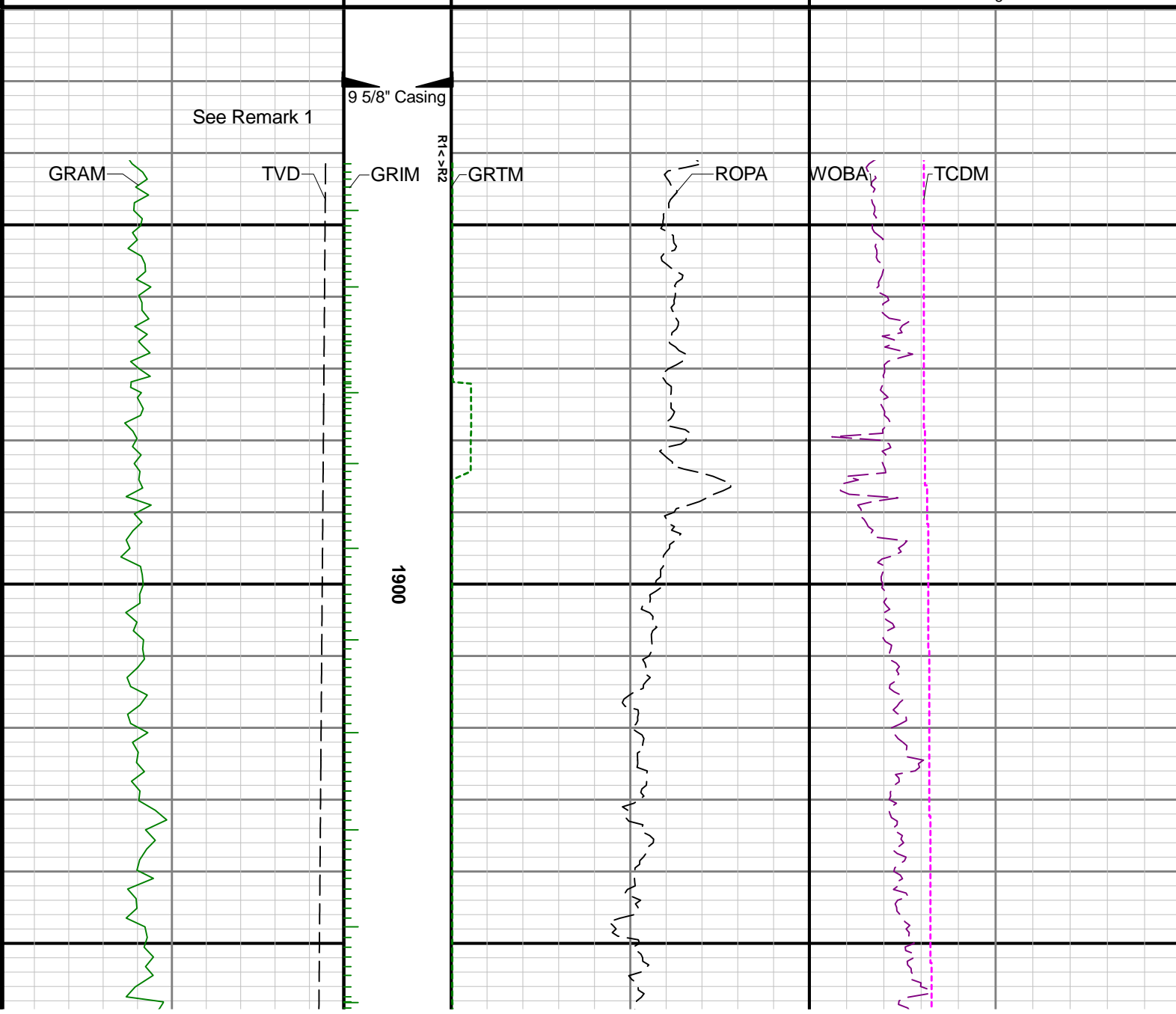
Remarks

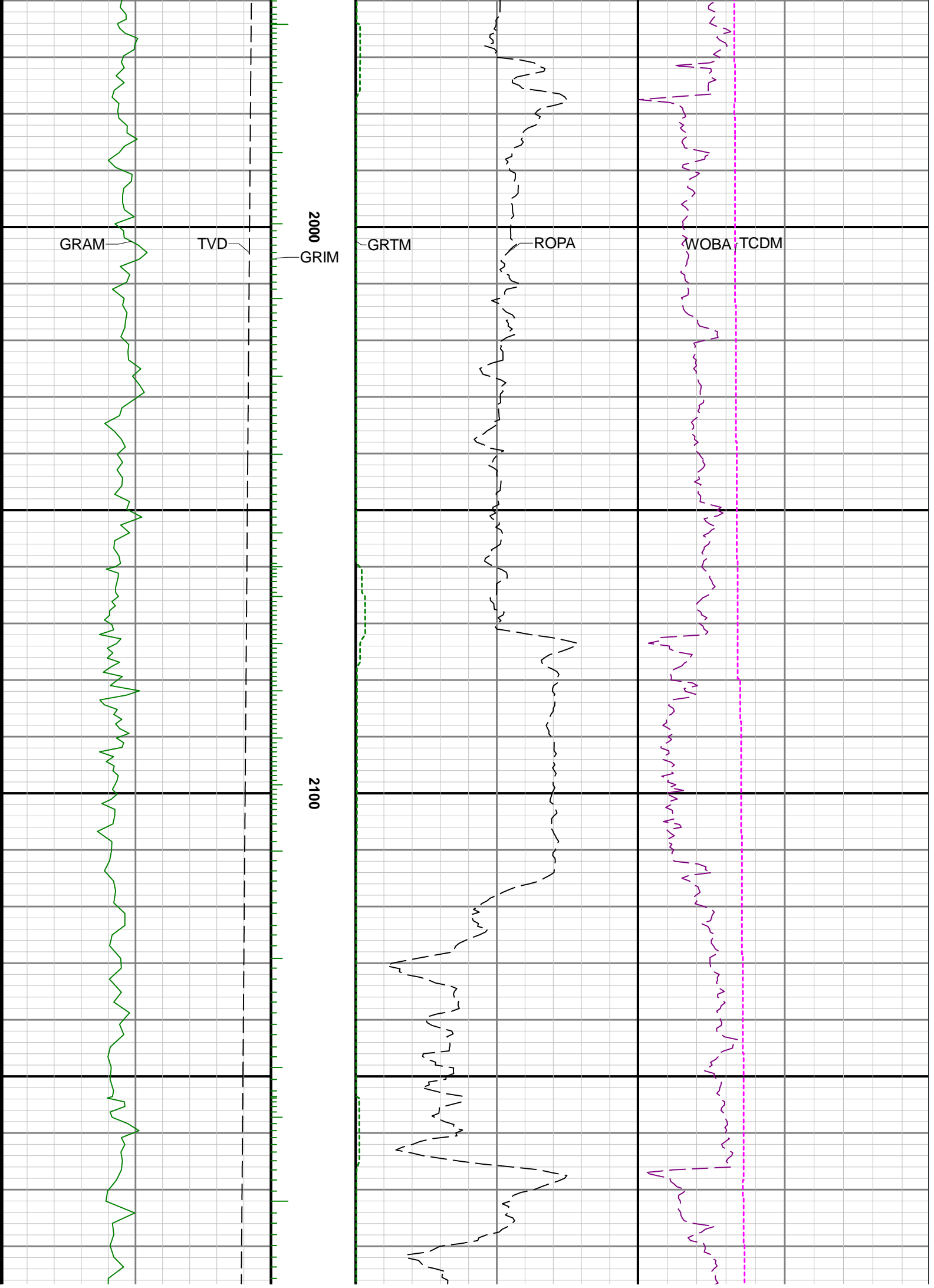
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	1841.00	8.500	2	Baker Hughes logging services began at 1841 feet MD (1817 feet TVD) per customer request.
2	12979.00	8.500	3	The interval from 12979 to 12992 feet MD (6968 feet TVD) was logged up to 17 hours after drilling due to Gamma Ray sensor offset from the bit at the end of Run 2.
3	15744.00	8.500	3	The interval from 15744 to 15762 feet MD (6949 feet TVD) was not logged due to sensor to bit offset at well TD.

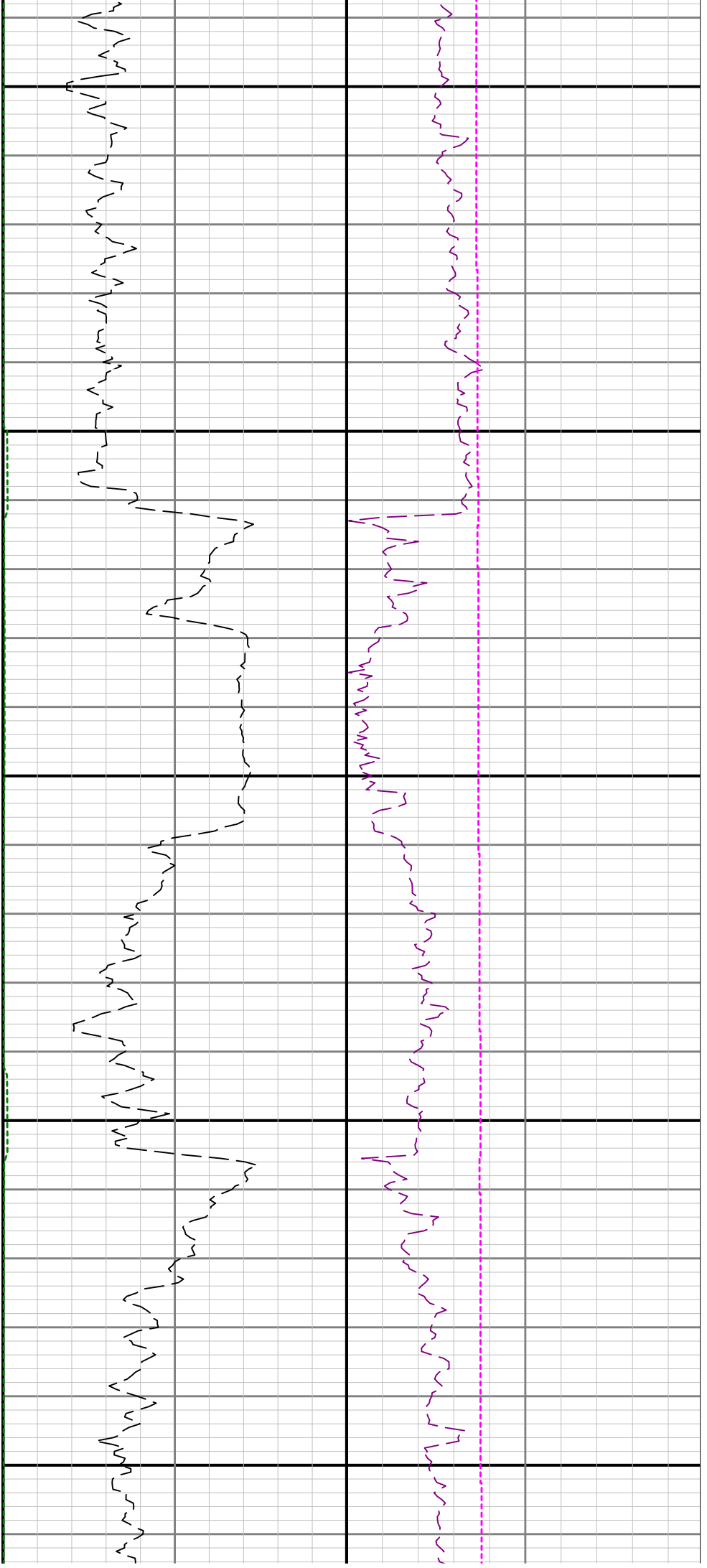
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
GRIM	Gamma Ray - Data Point Indicator - Memory	unitless
GRTM	Gamma Ray - Time Since Drilled - Memory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

**Company** SRC Energy**Well** Boomerang 32N-6C-M**Interval****Date From:** 2017-12-27 05:01:36**Top:** 1841.00**Date To:** 2018-03-02 21:58:15**Bottom:** 15762.00**Created** 2018-03-05 21:22:14

Gamma Ray - Apparent 0.5 ft Average GRAM 0 300	MD 1:240 feet	Gamma Time Since Drilled GRTM 0 600	Weight On Bit, Average 1 ft Average WOBA 0 50
API		min	klb
True Vertical Depth TVD 7500 1500 ft		Depth Averaged ROP 3 ft Average ROPA 1000 0 ft/h	Downhole Temperature TCDM 0 300 degF



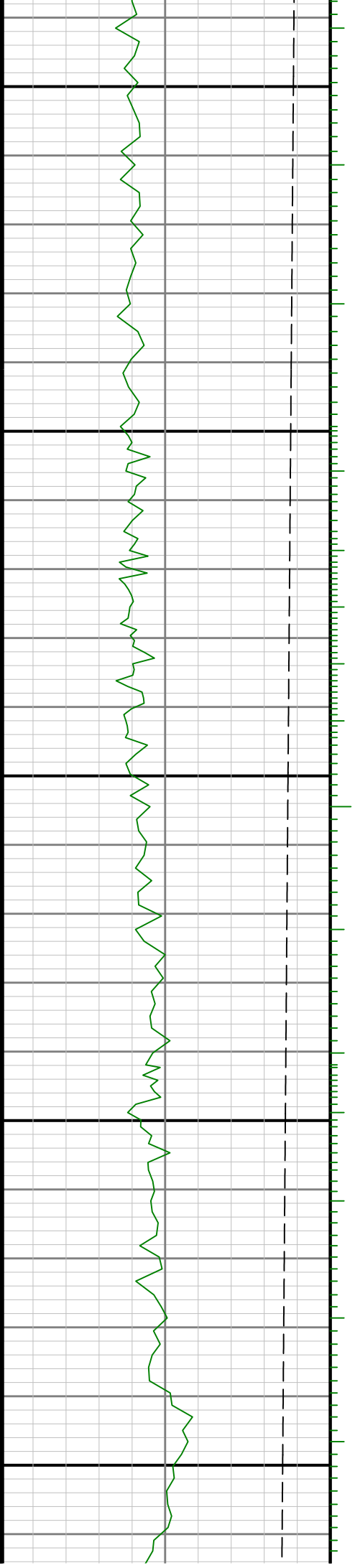


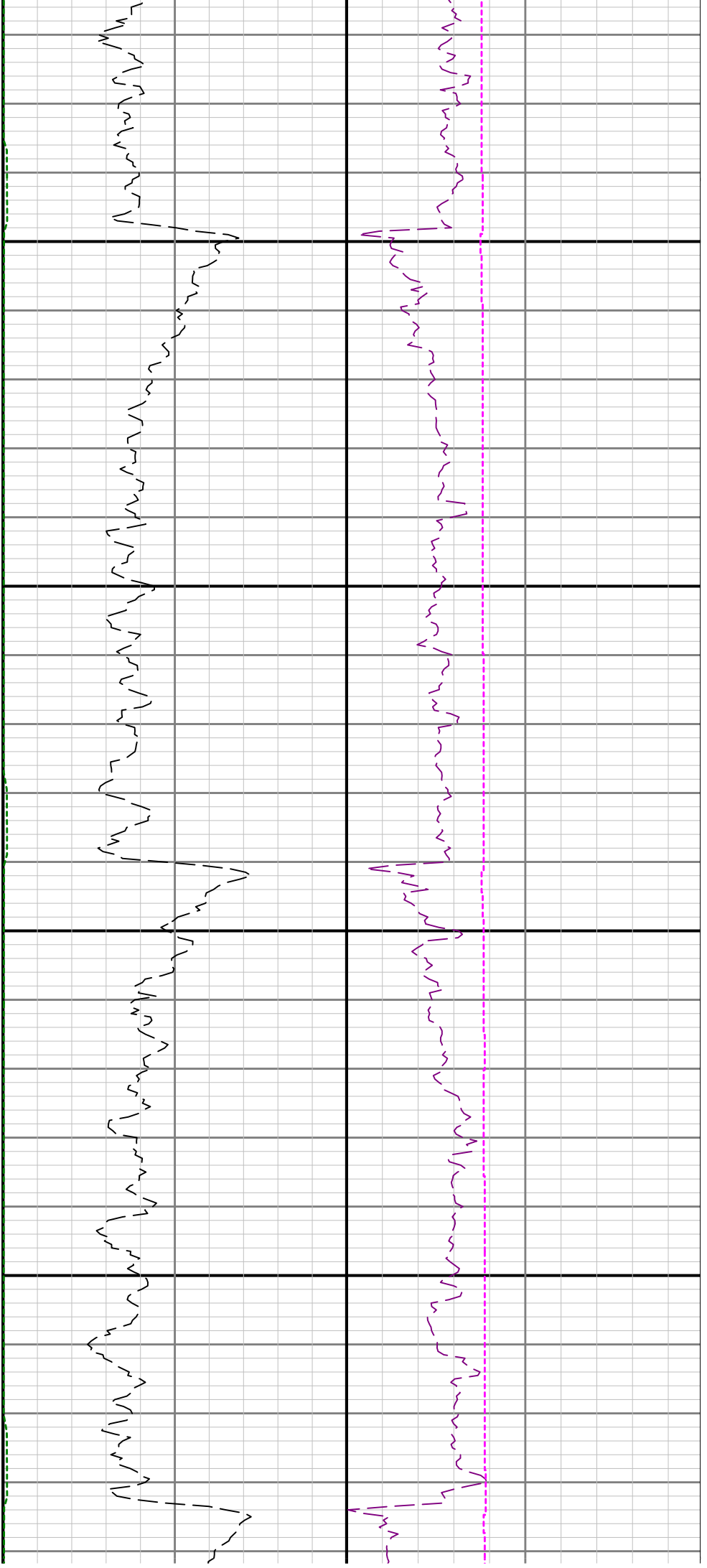


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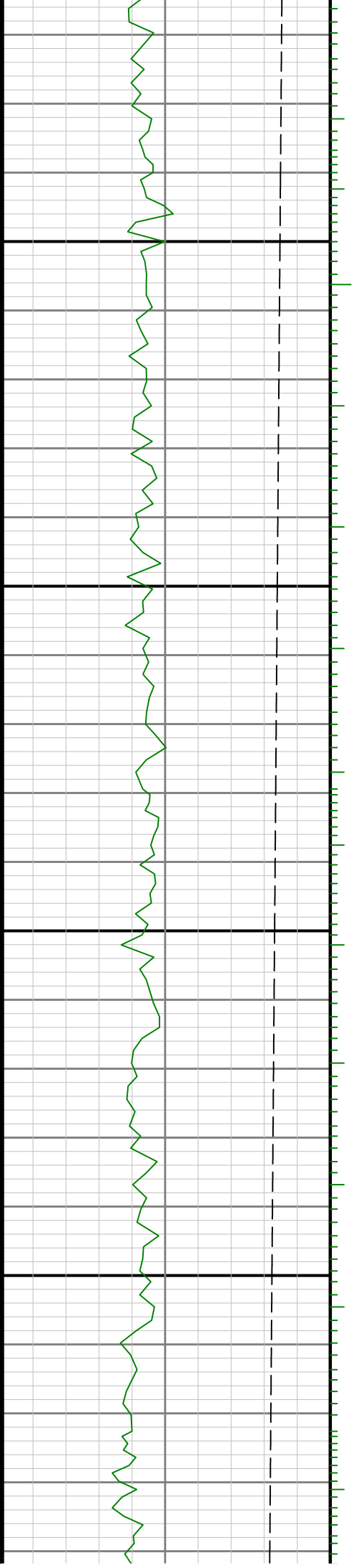
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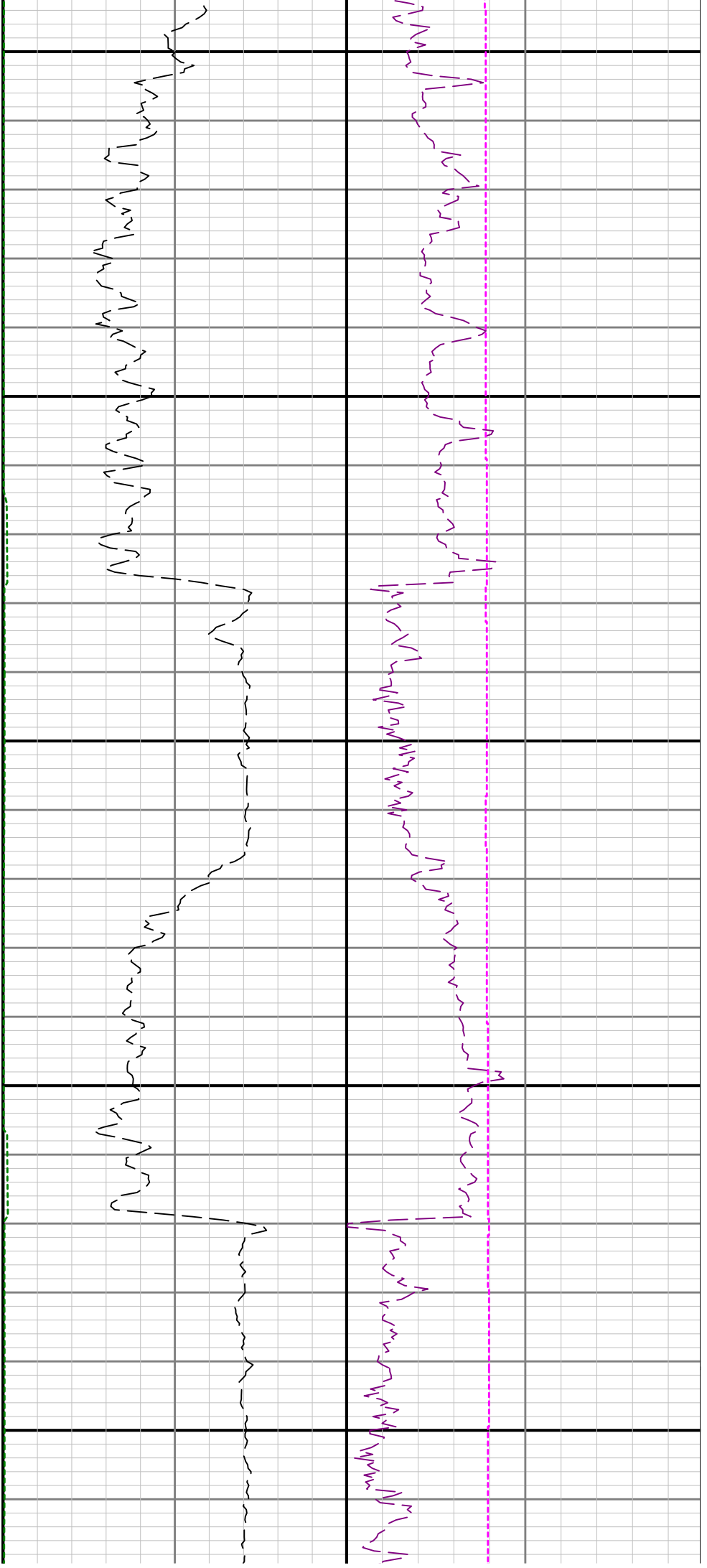




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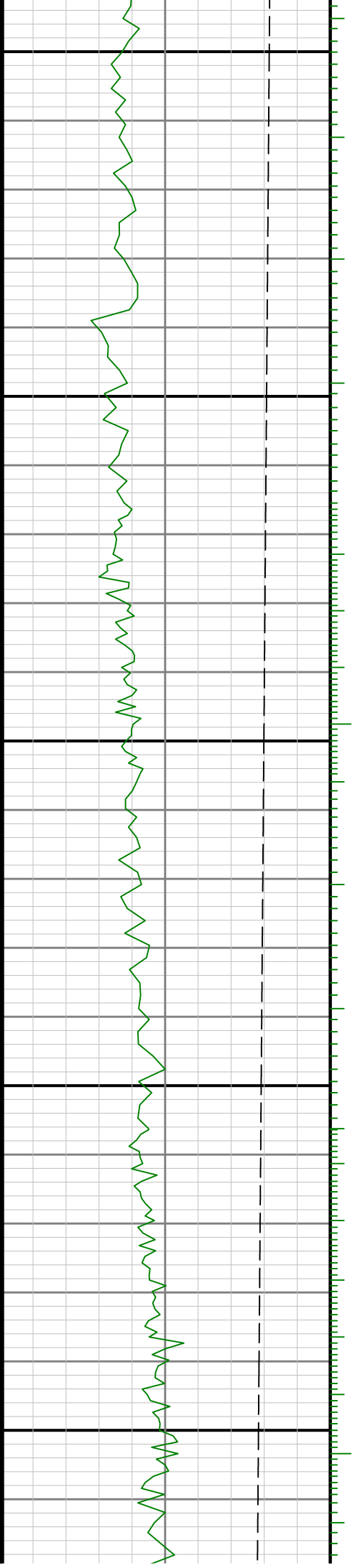
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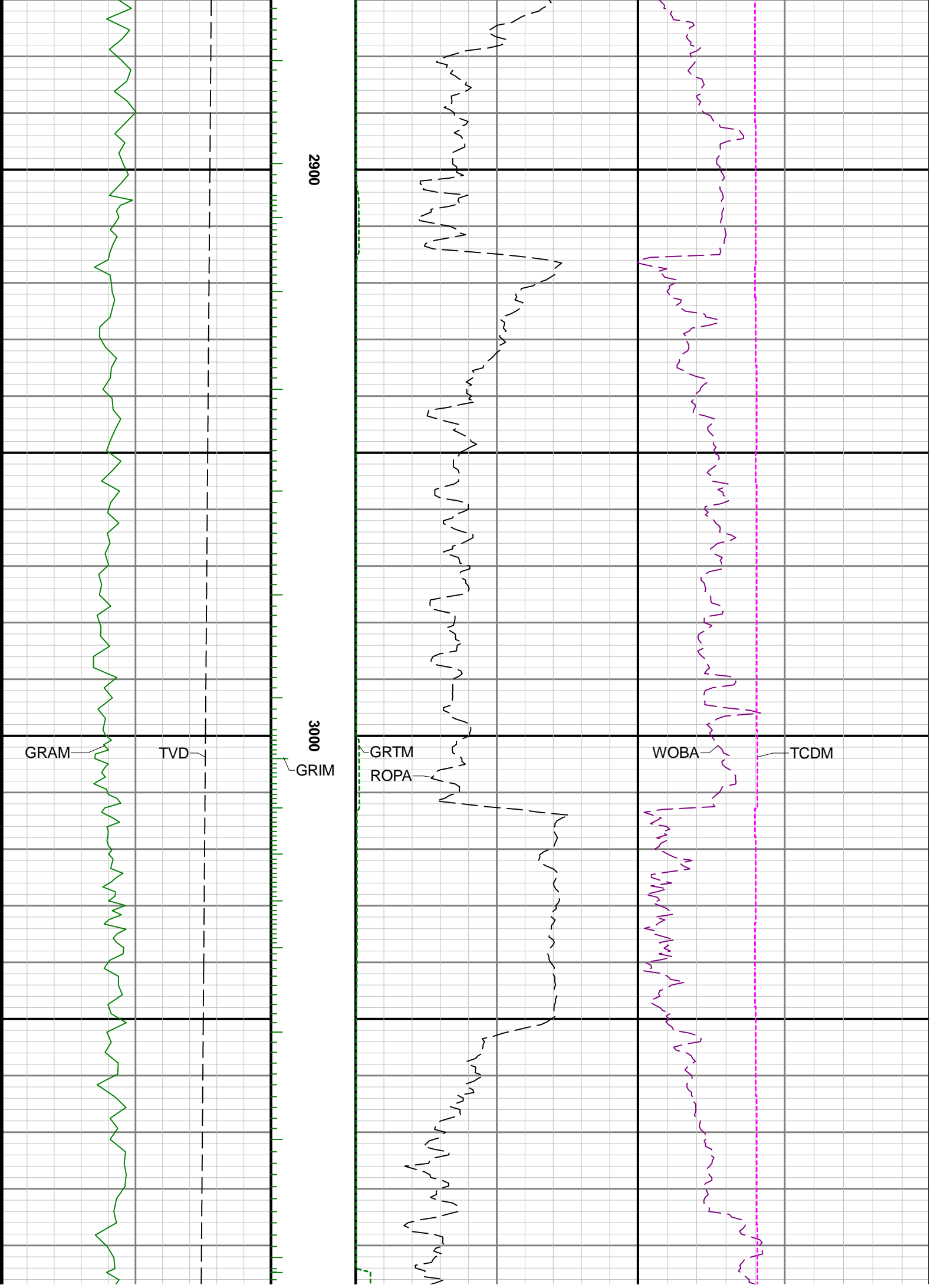


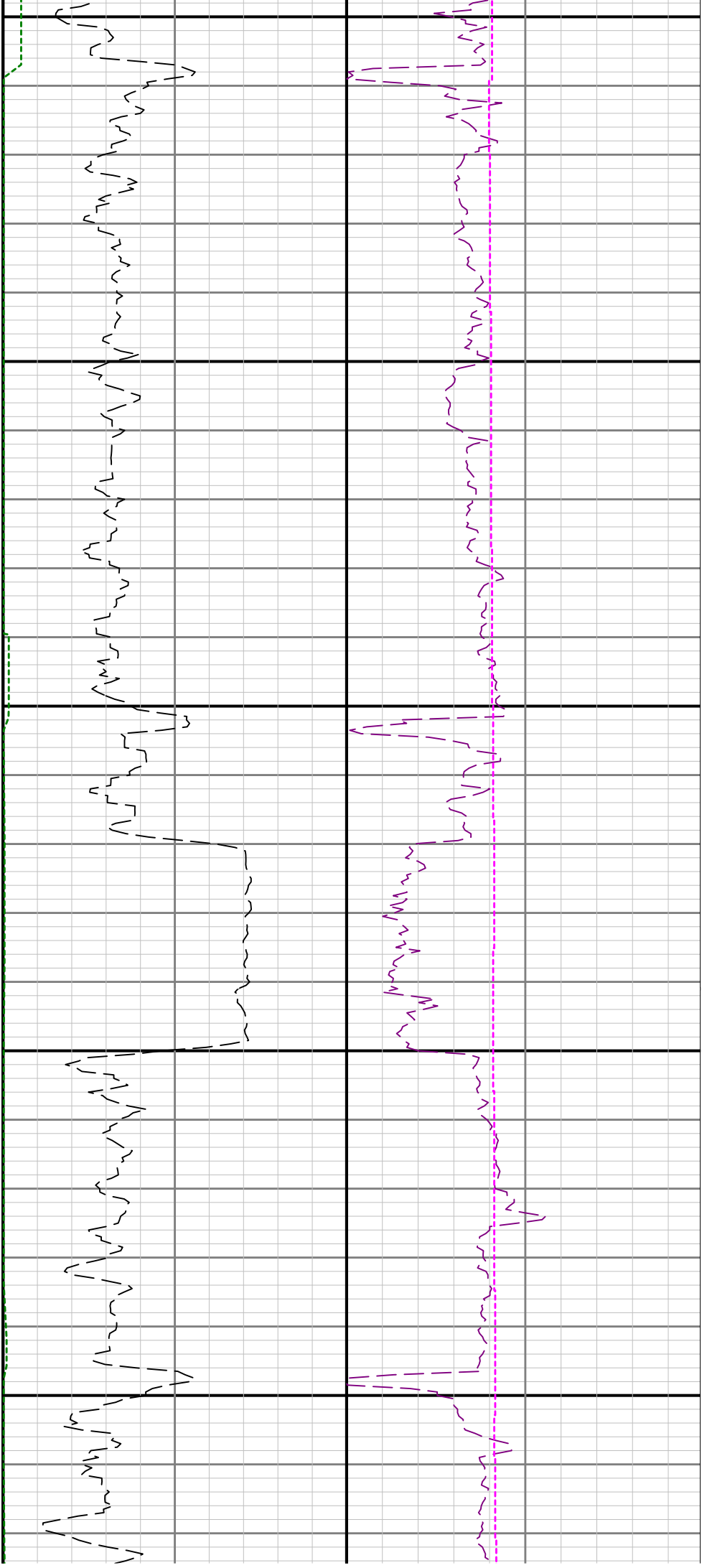


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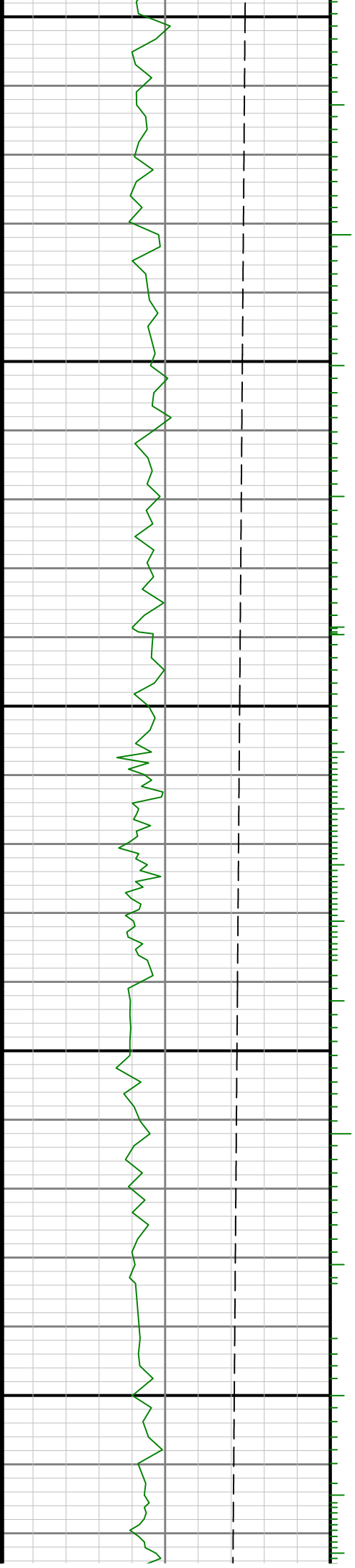


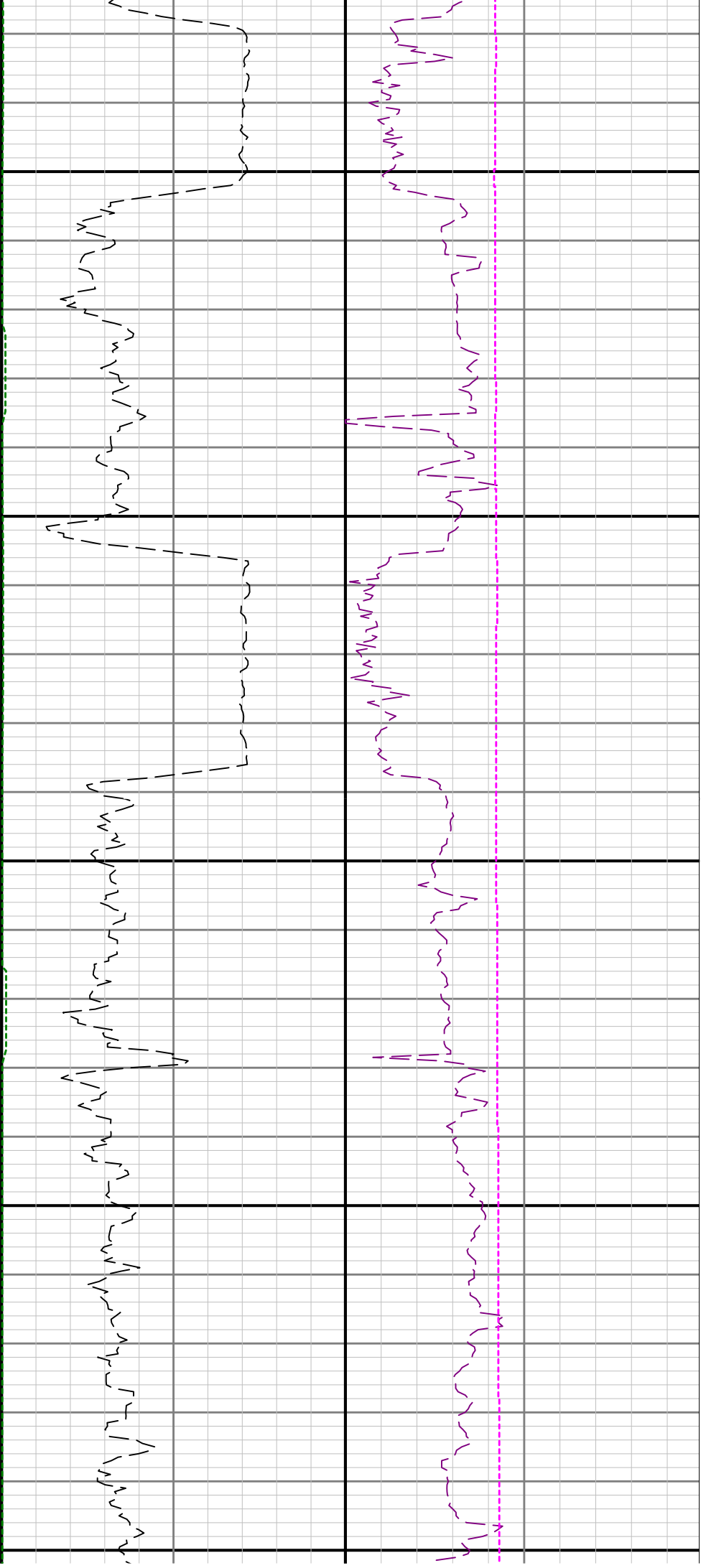


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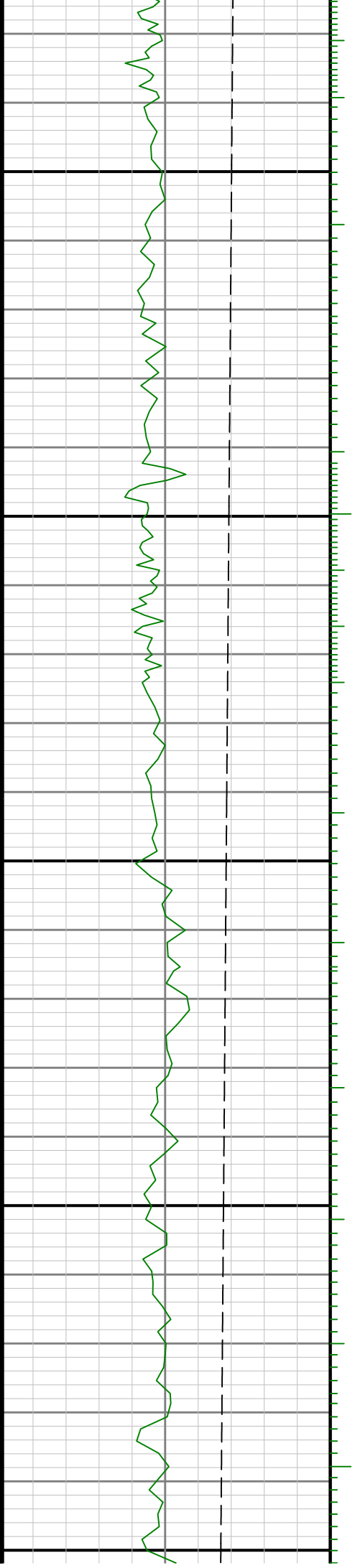
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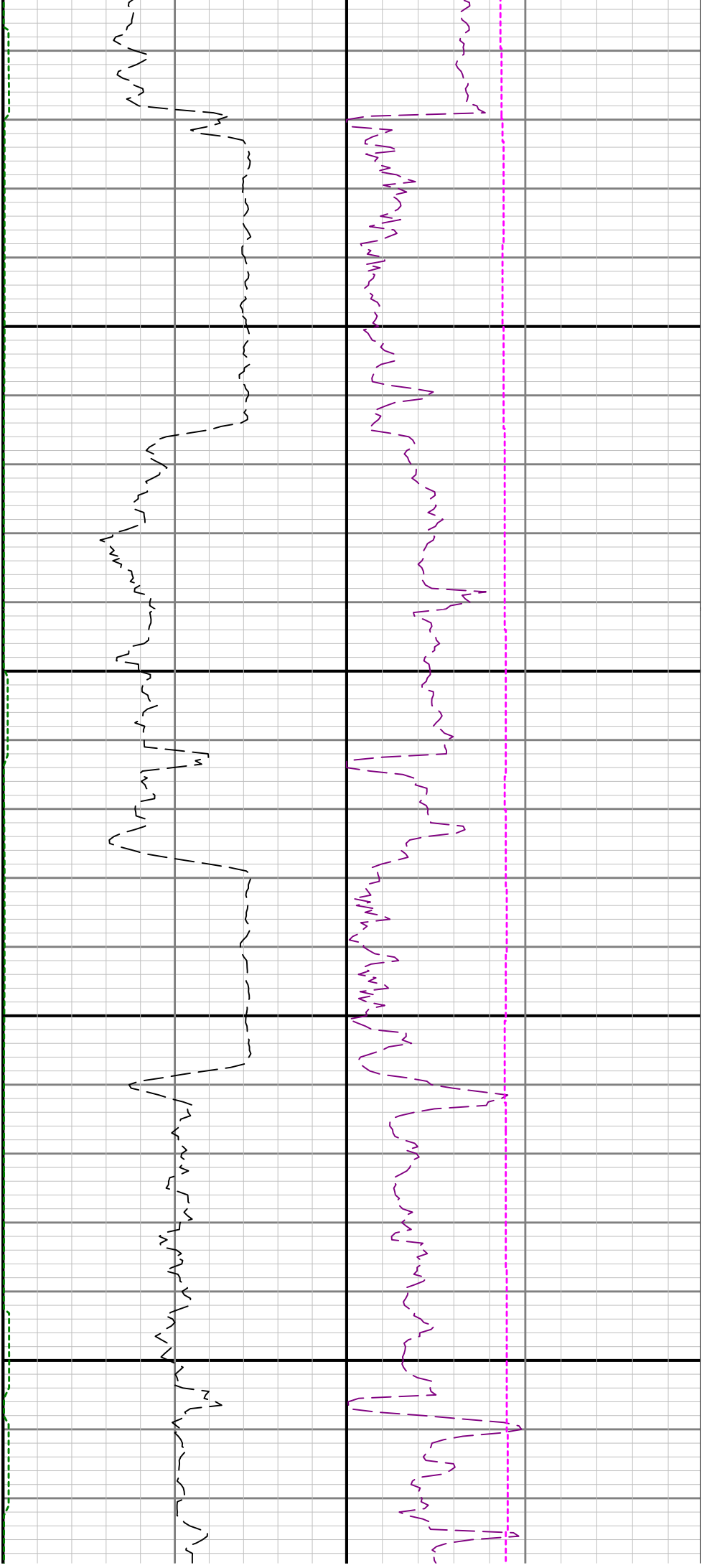




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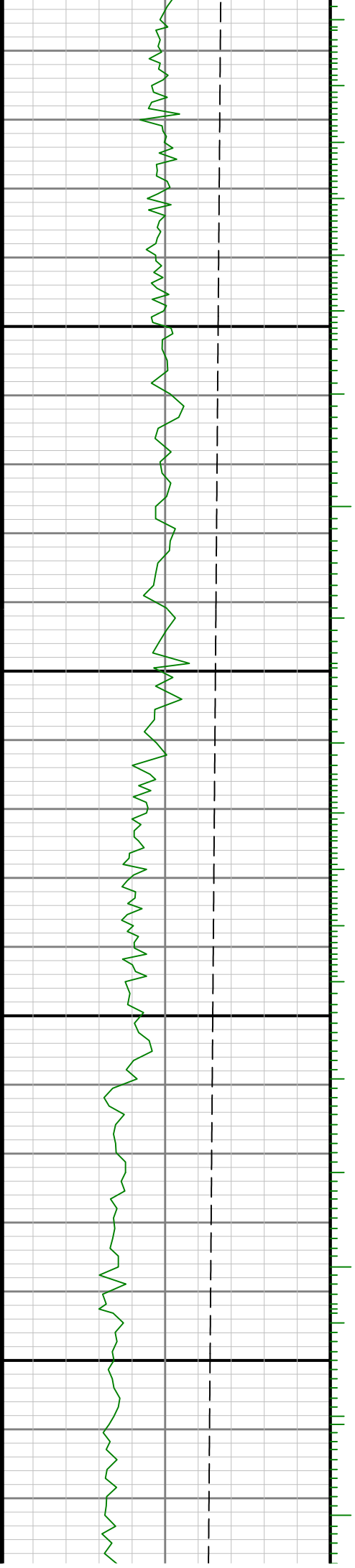
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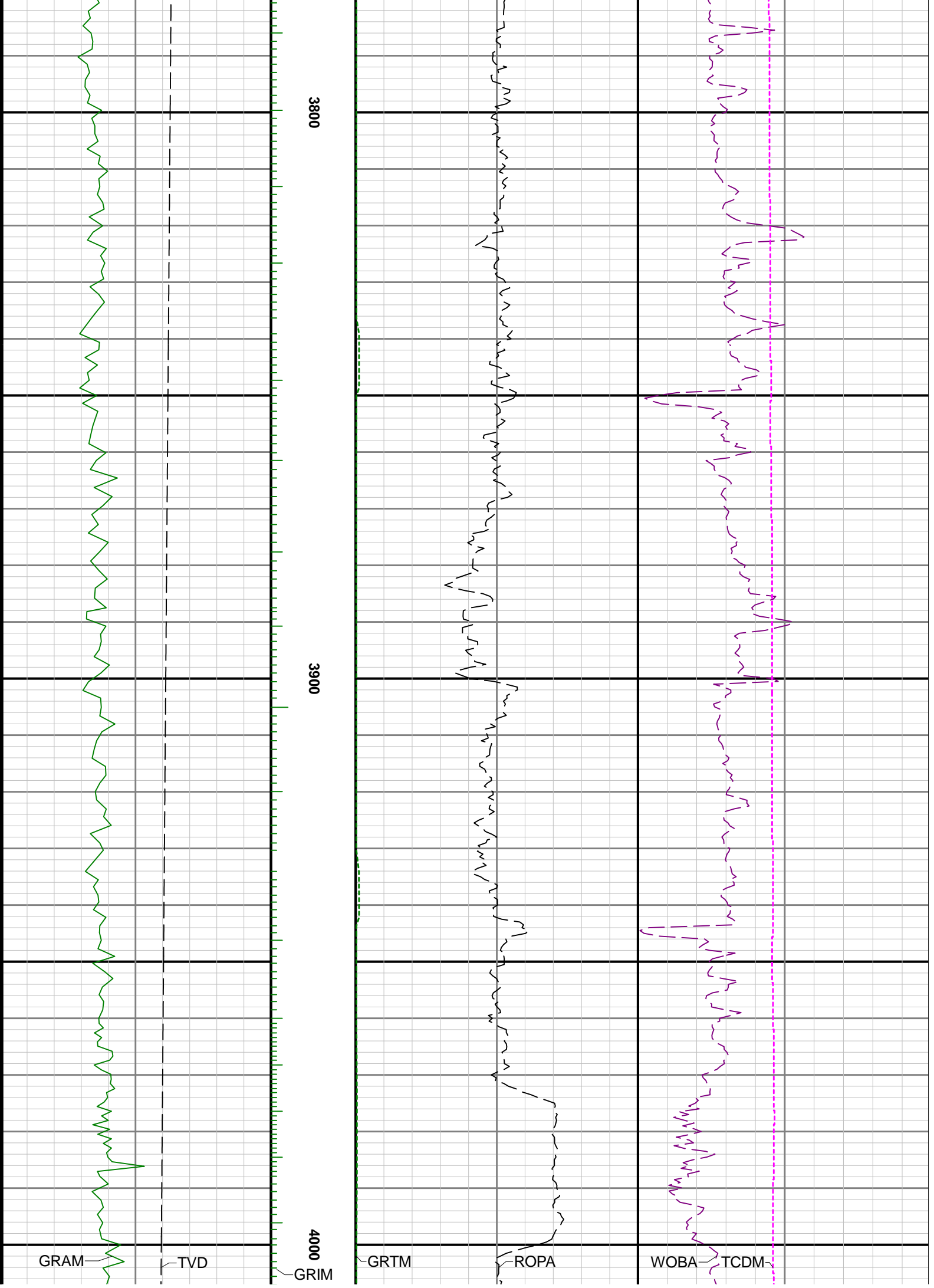


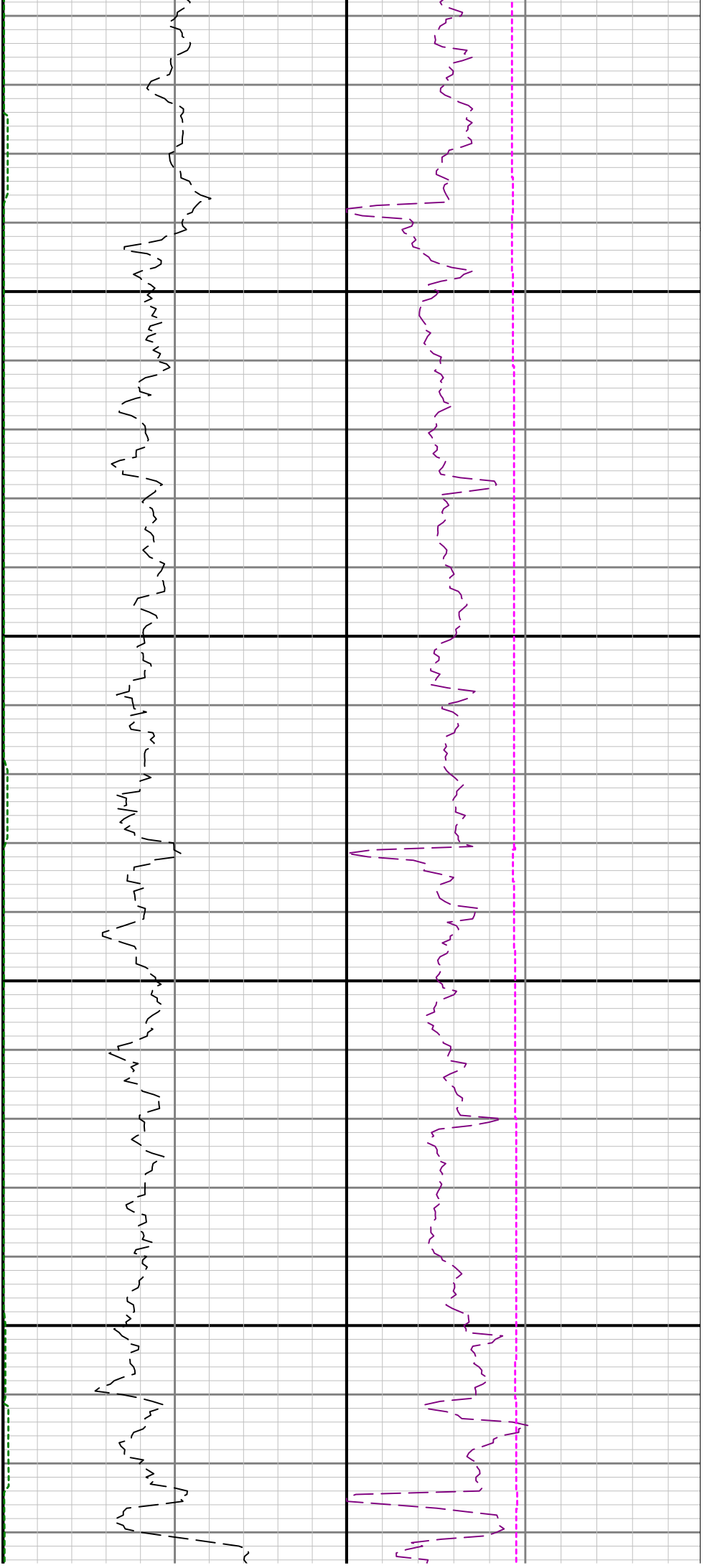


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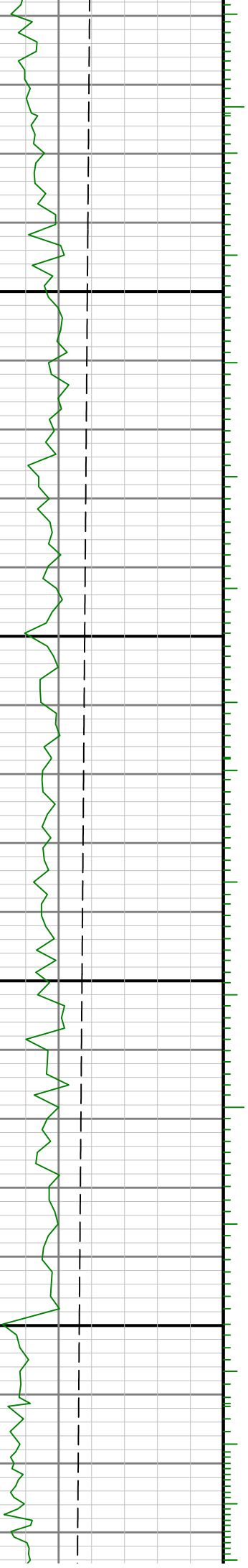
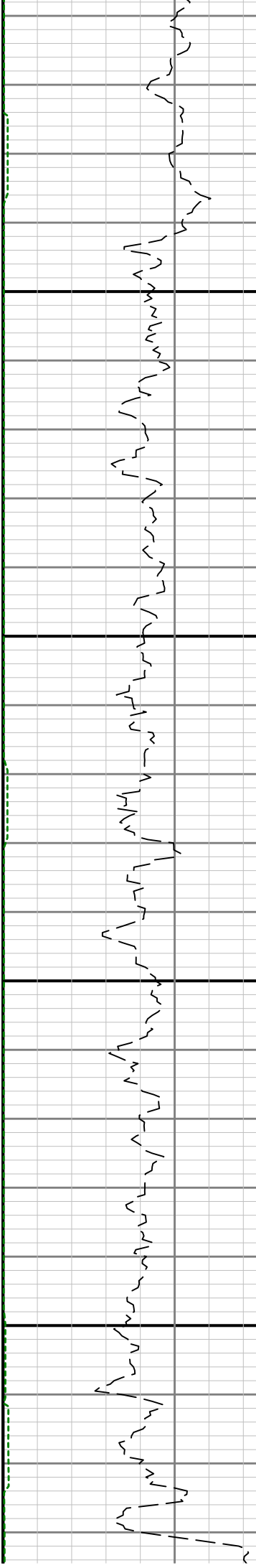


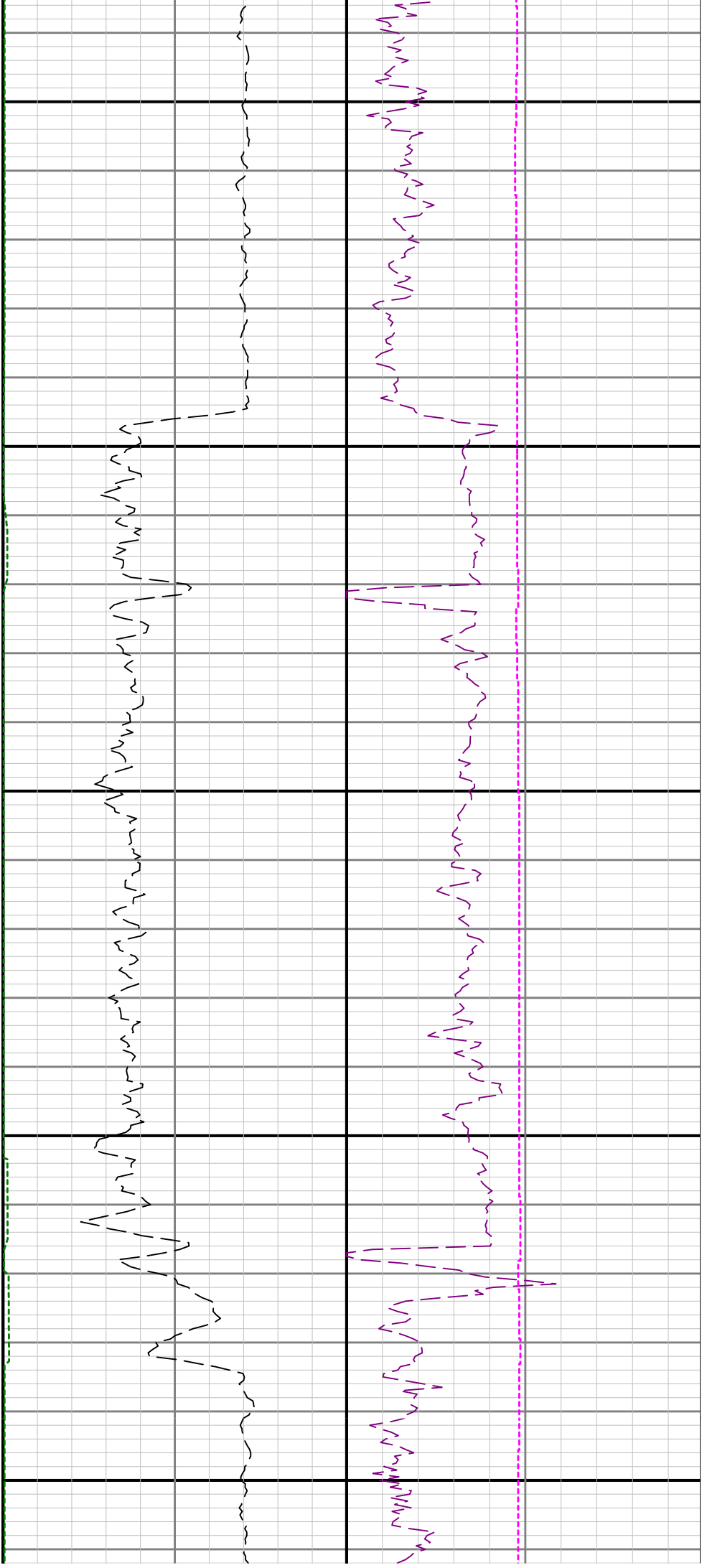




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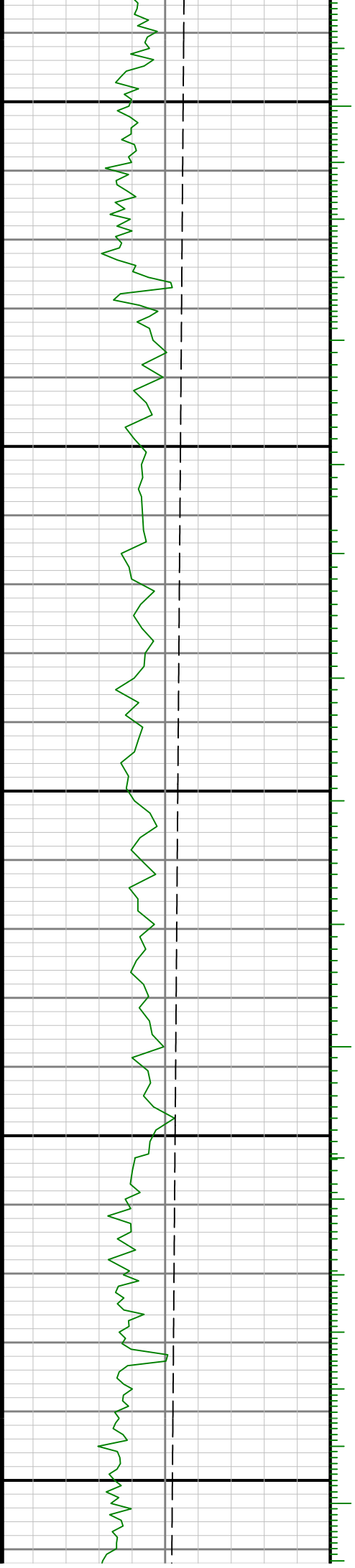
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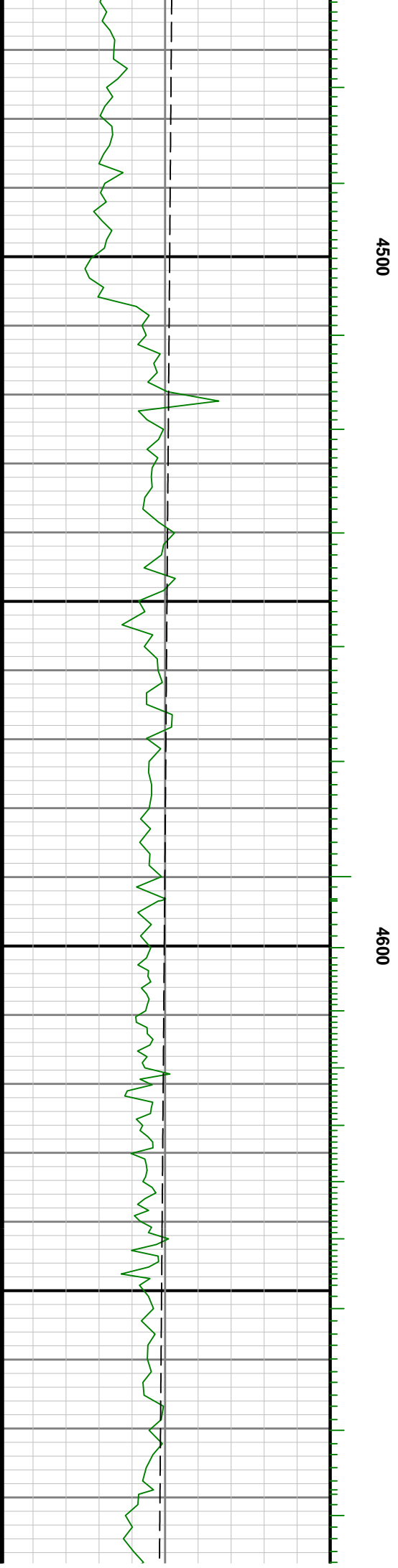
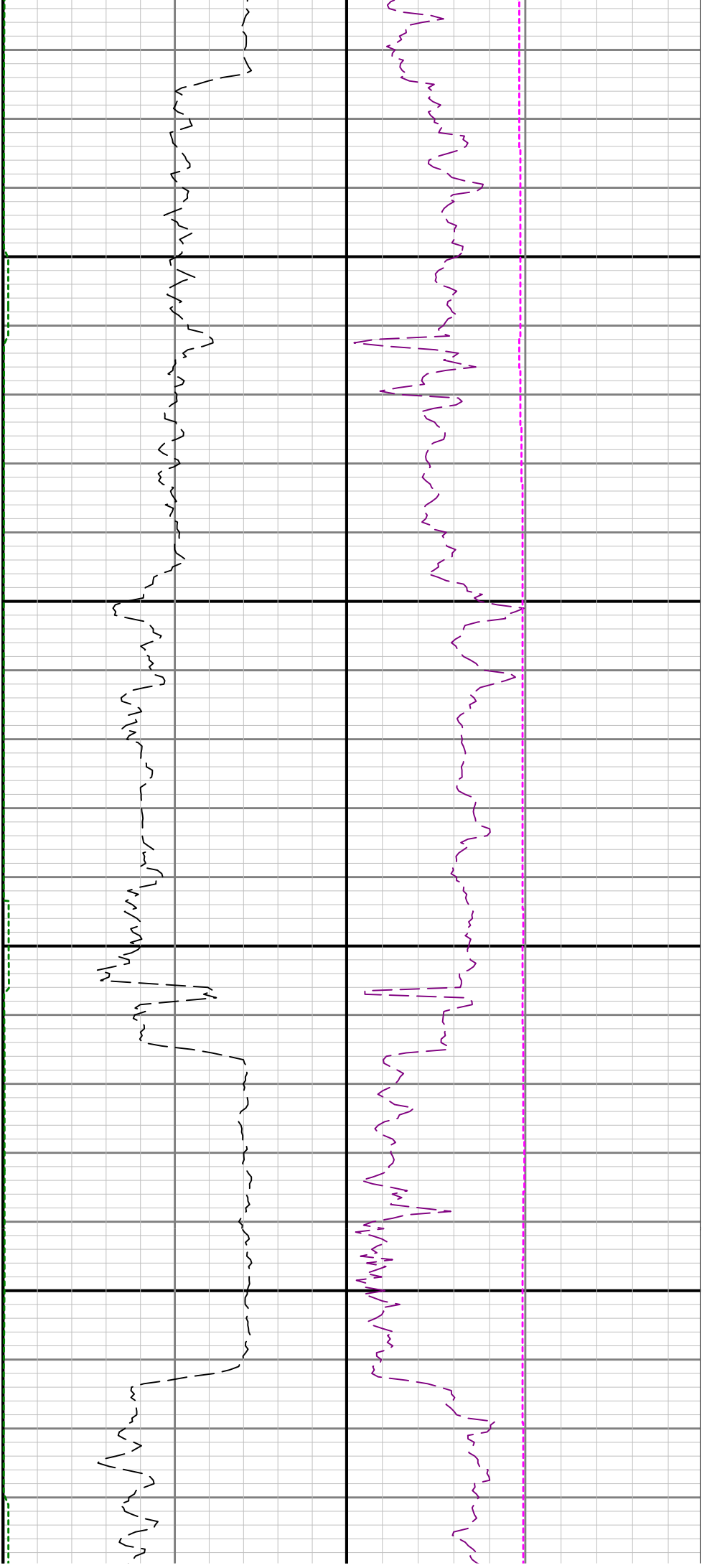


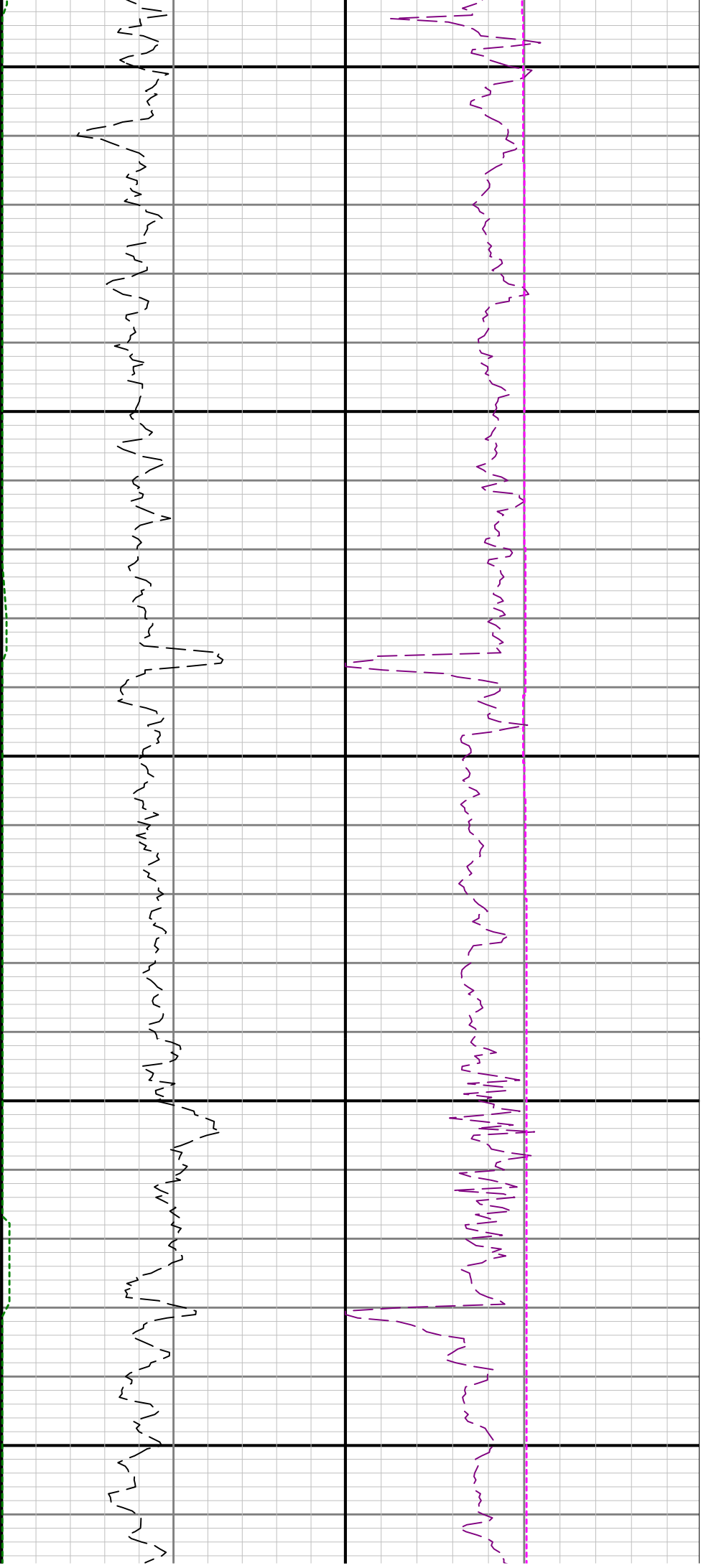


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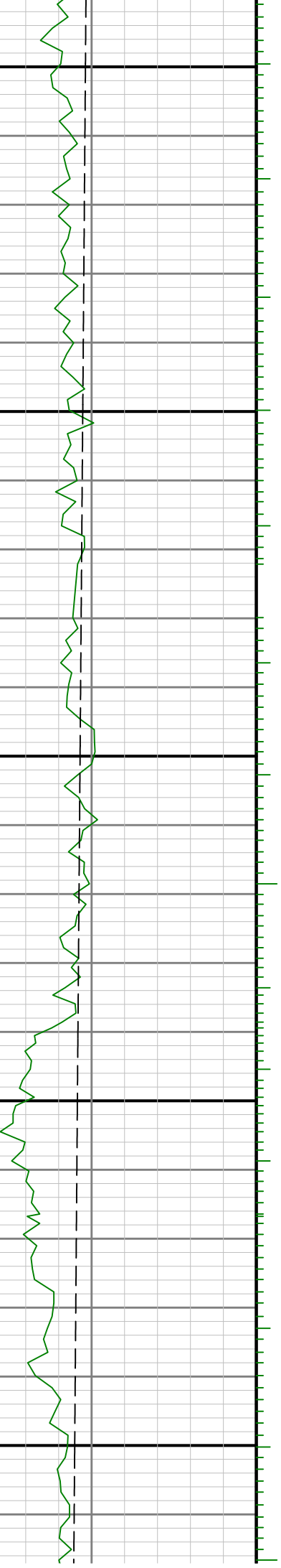


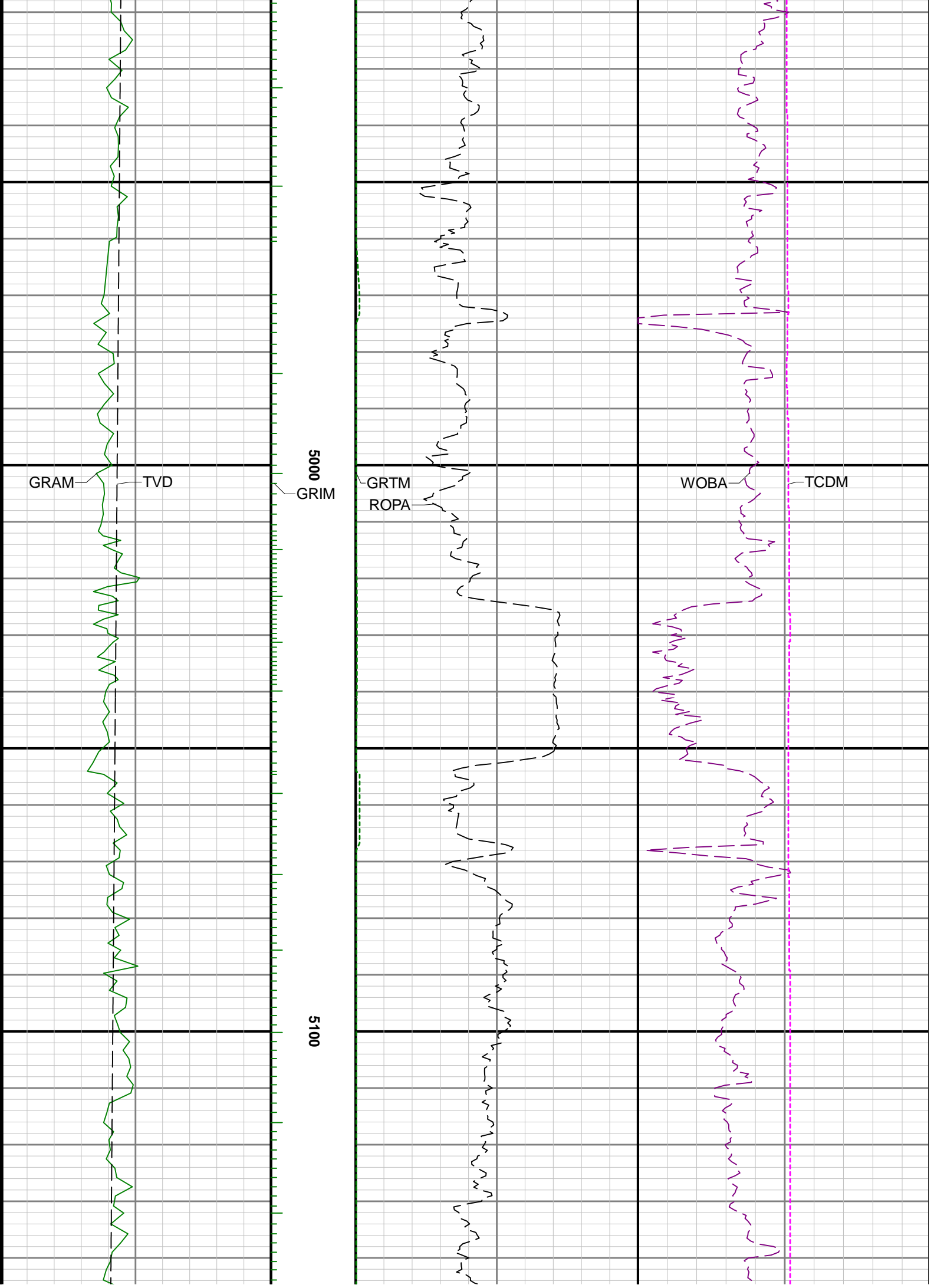


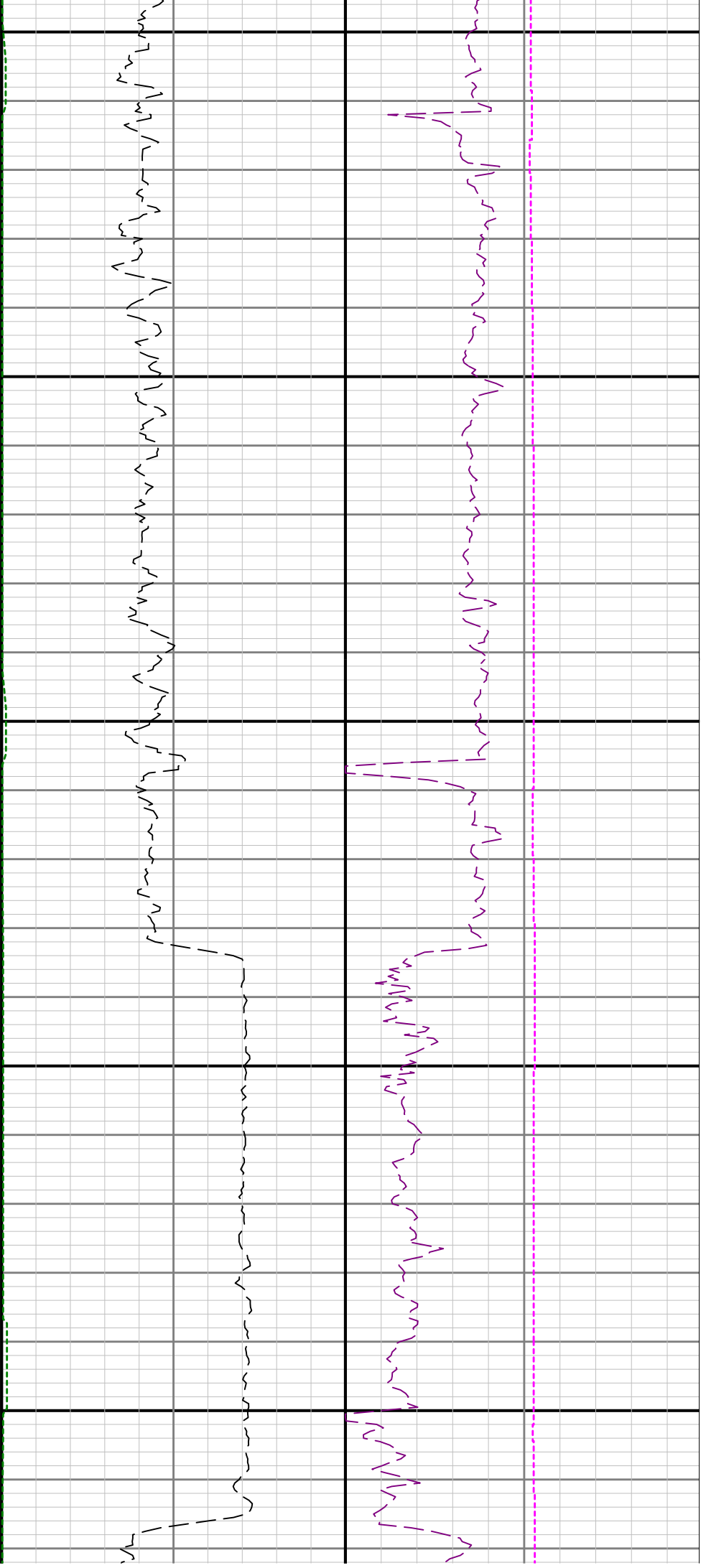
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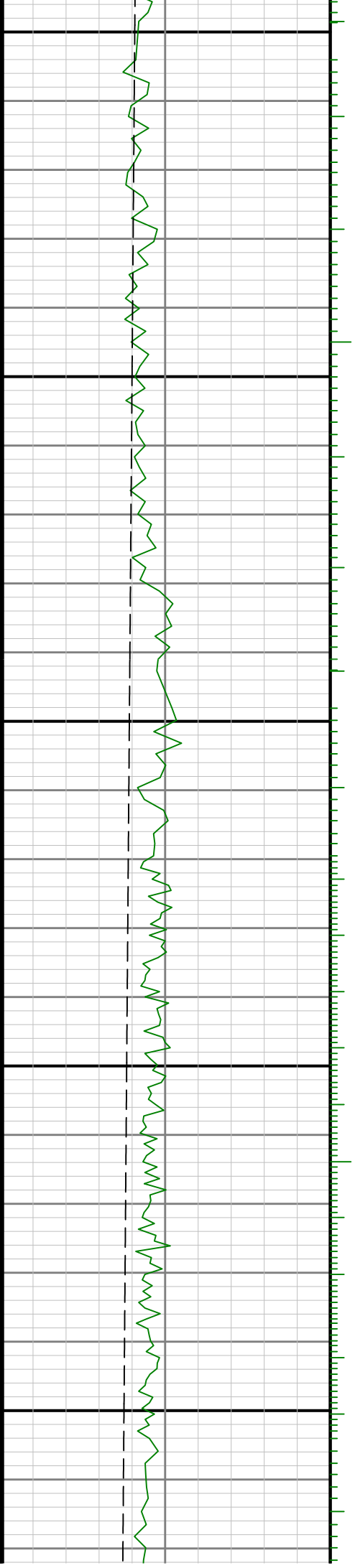


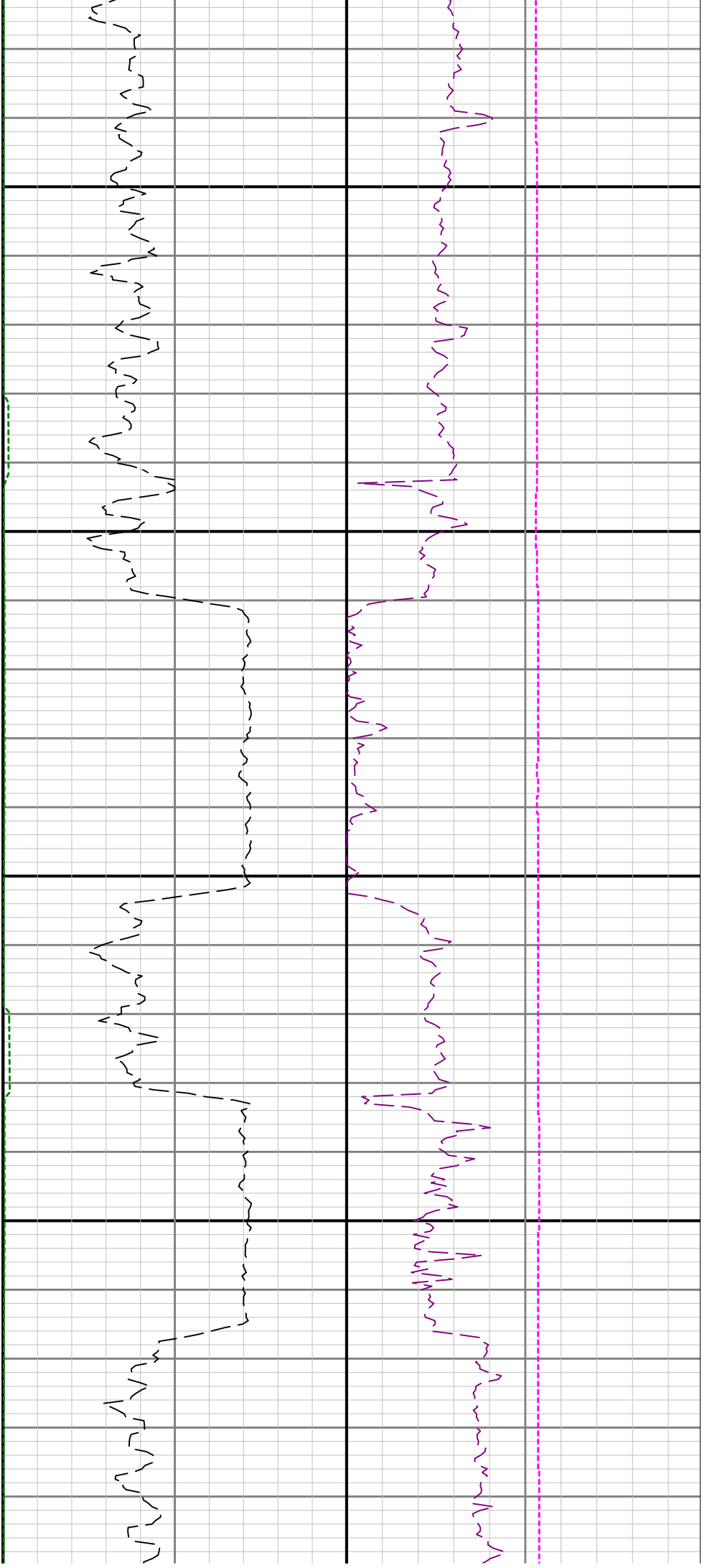




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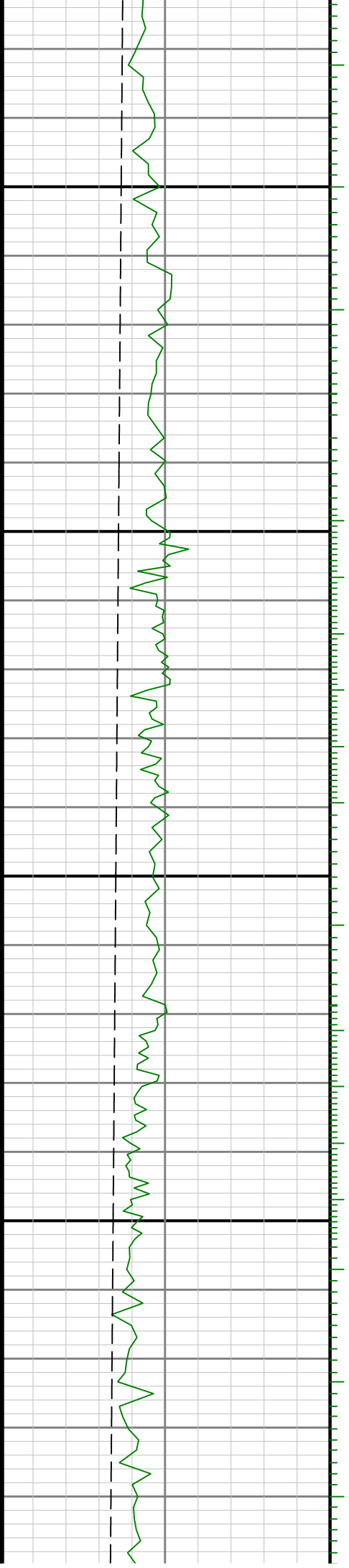


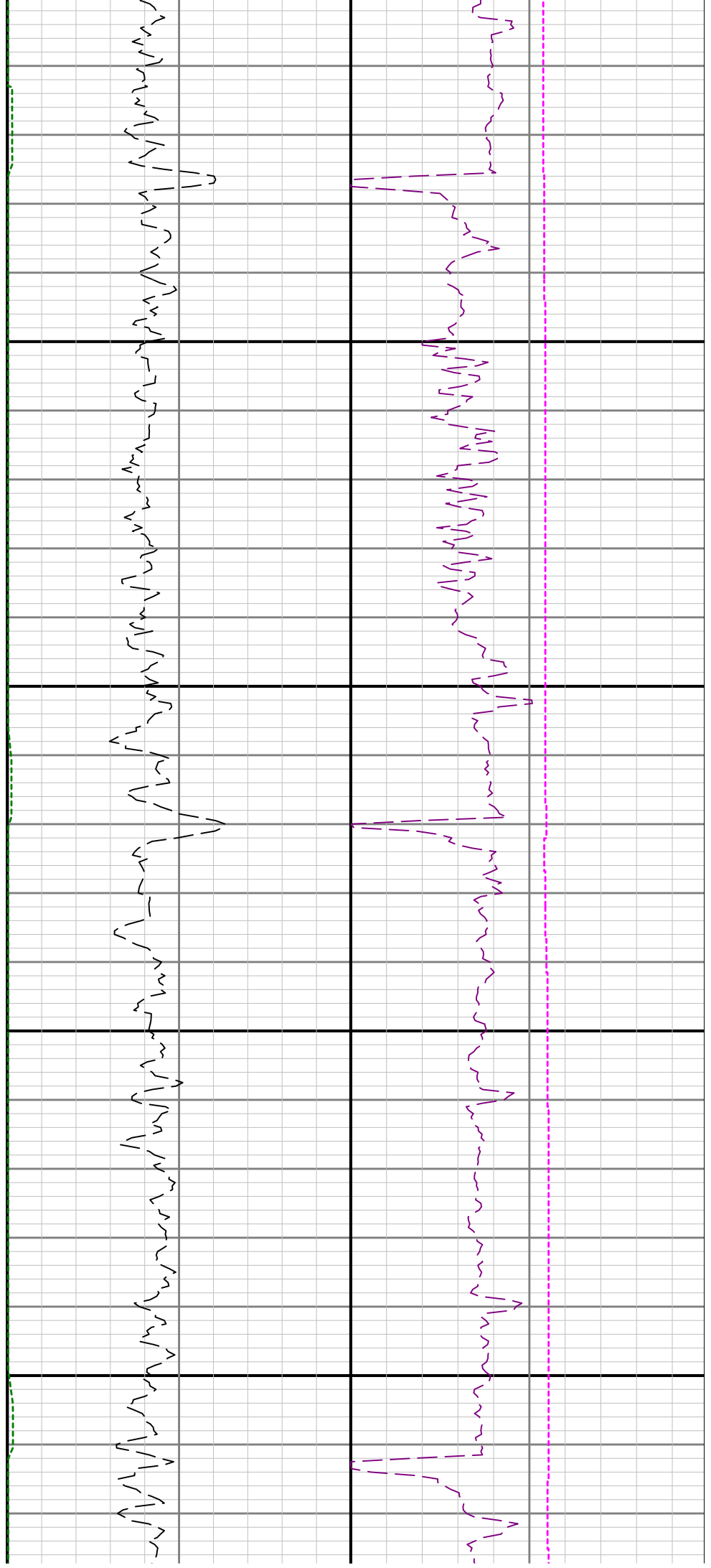


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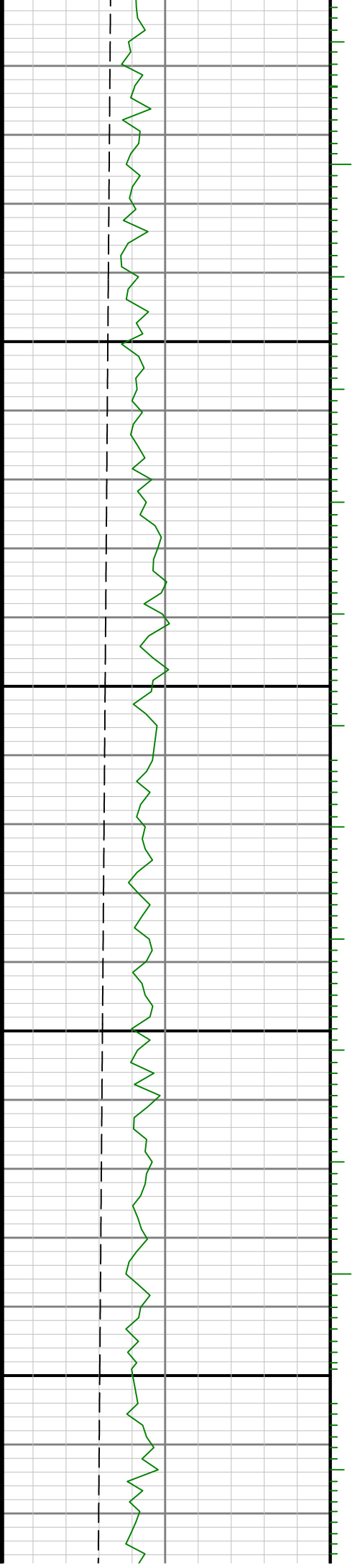
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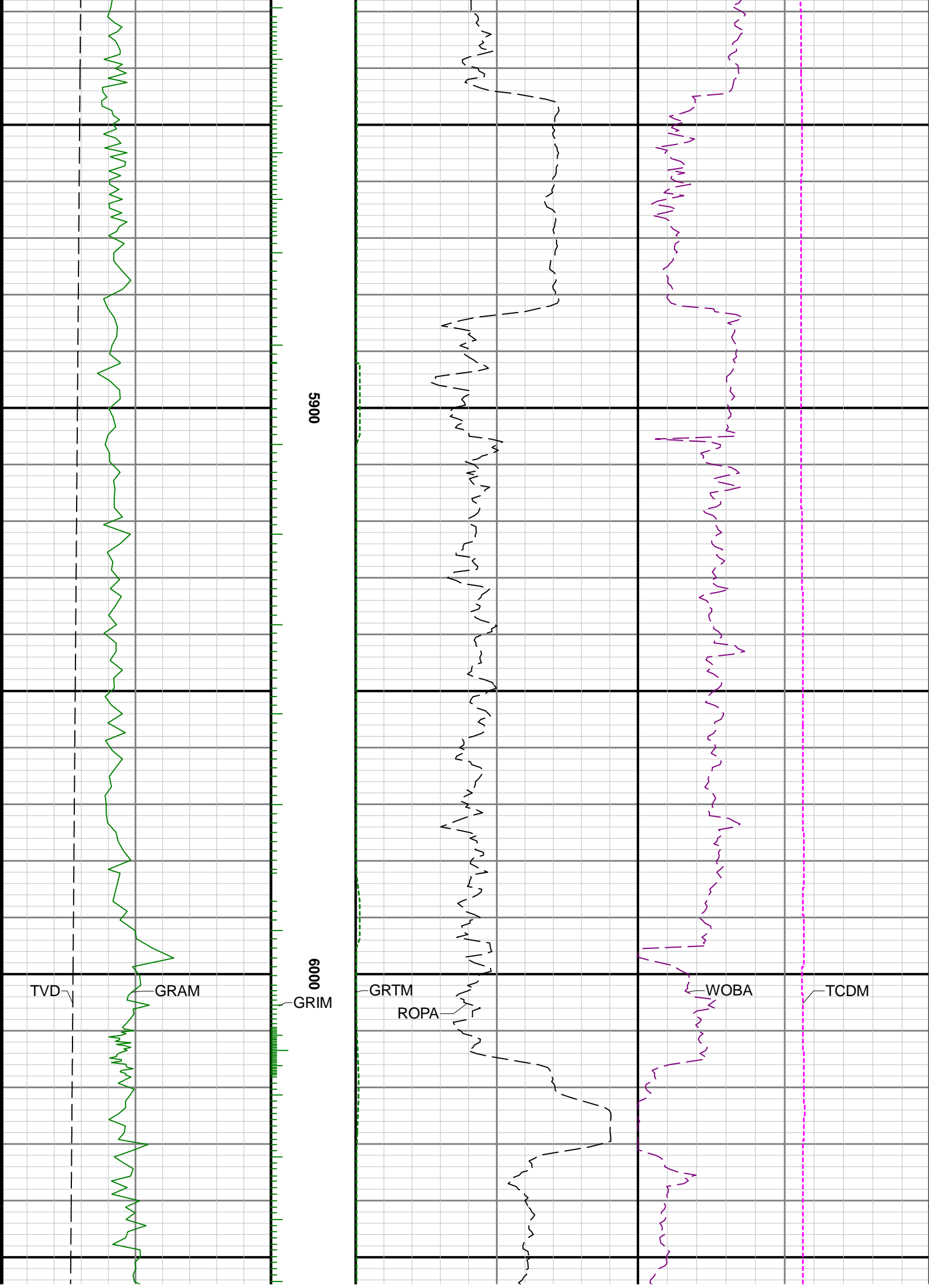
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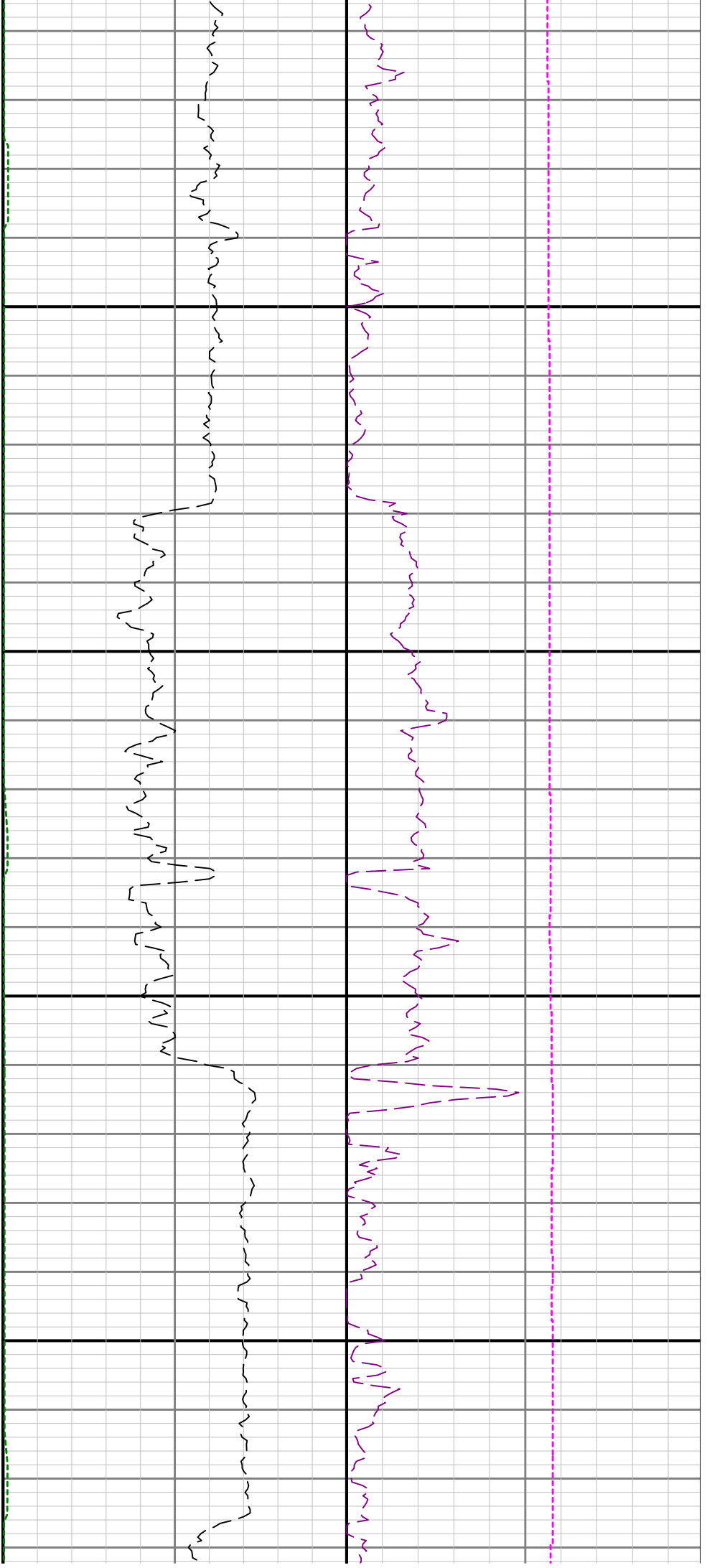




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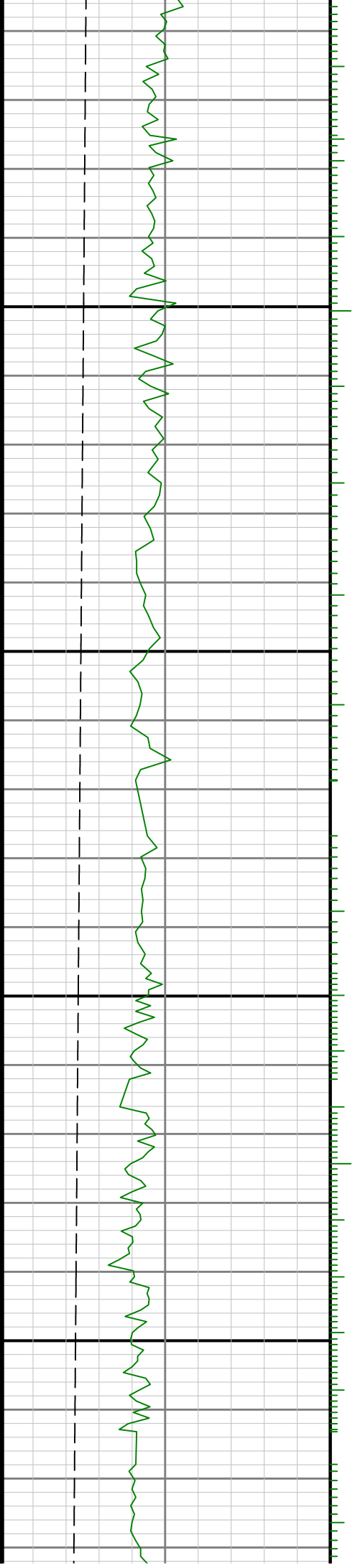


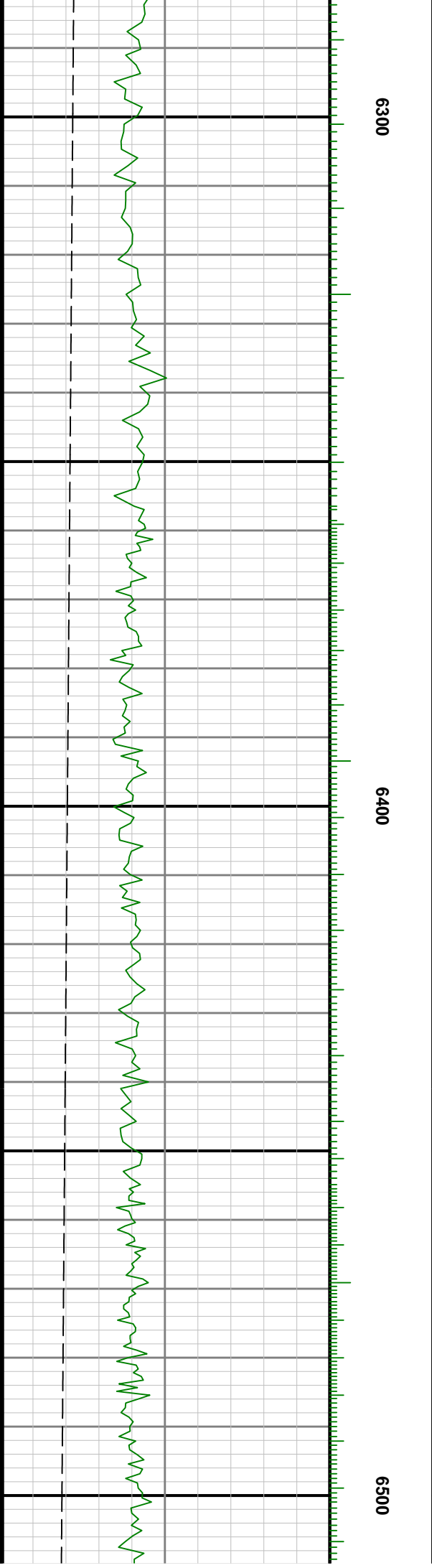
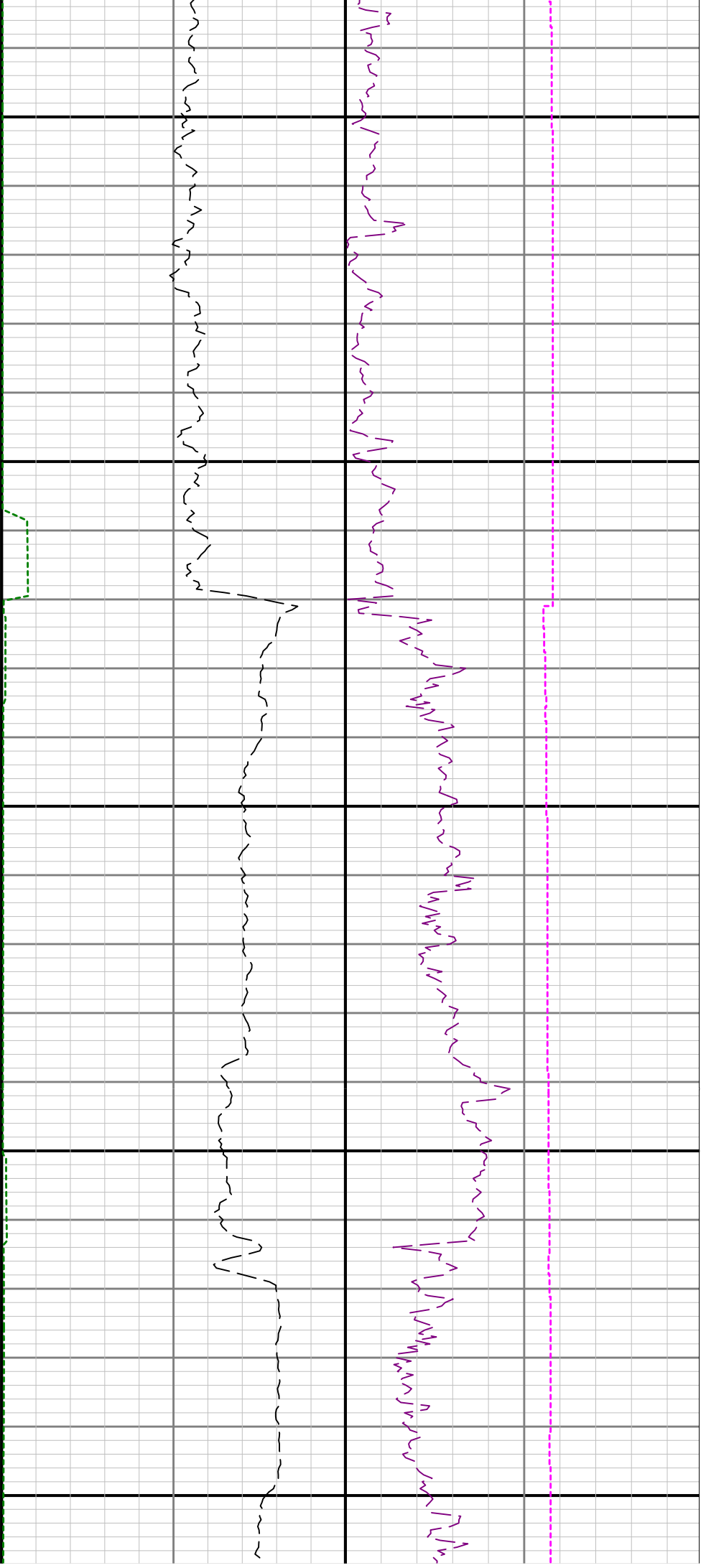


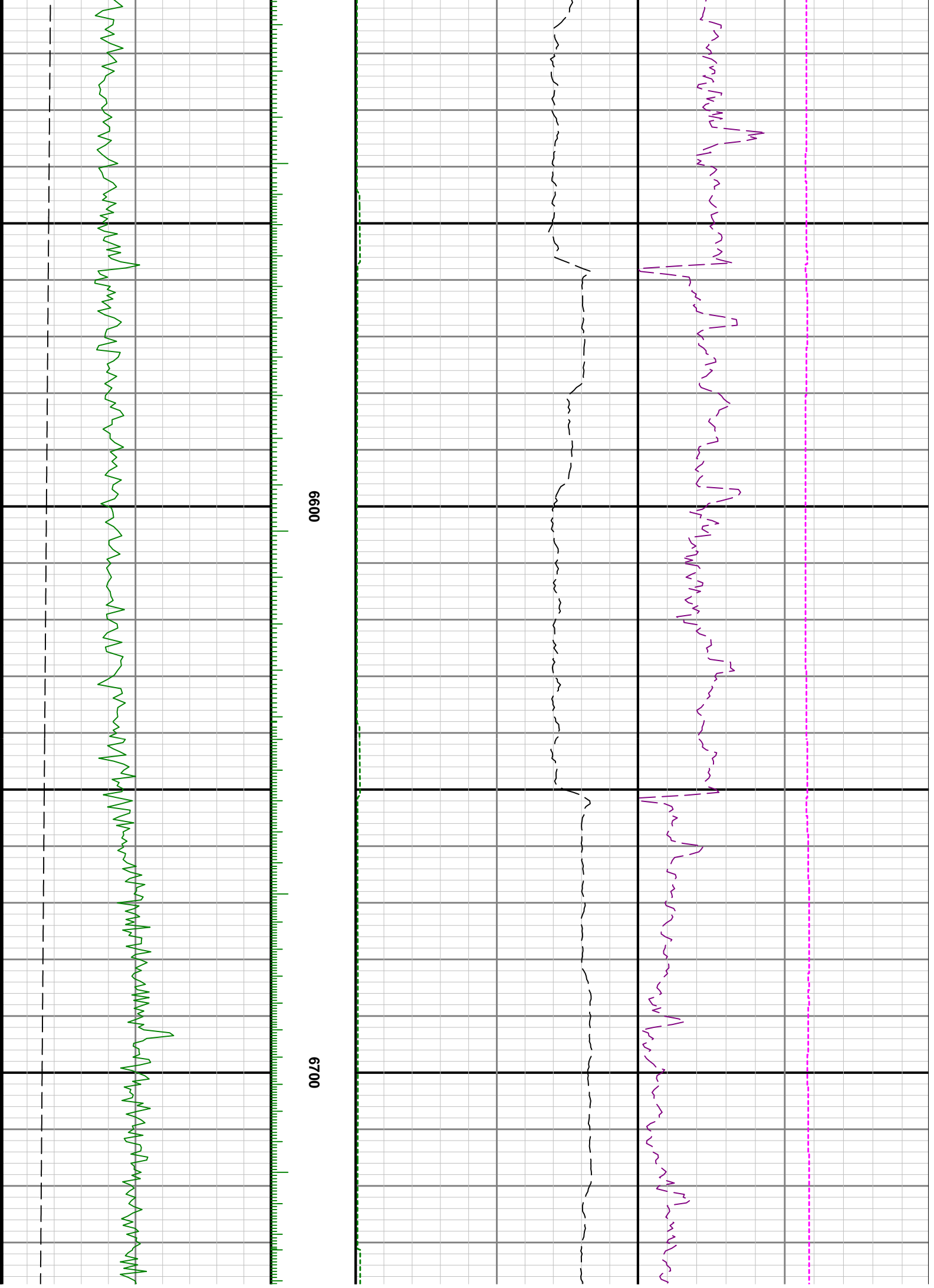


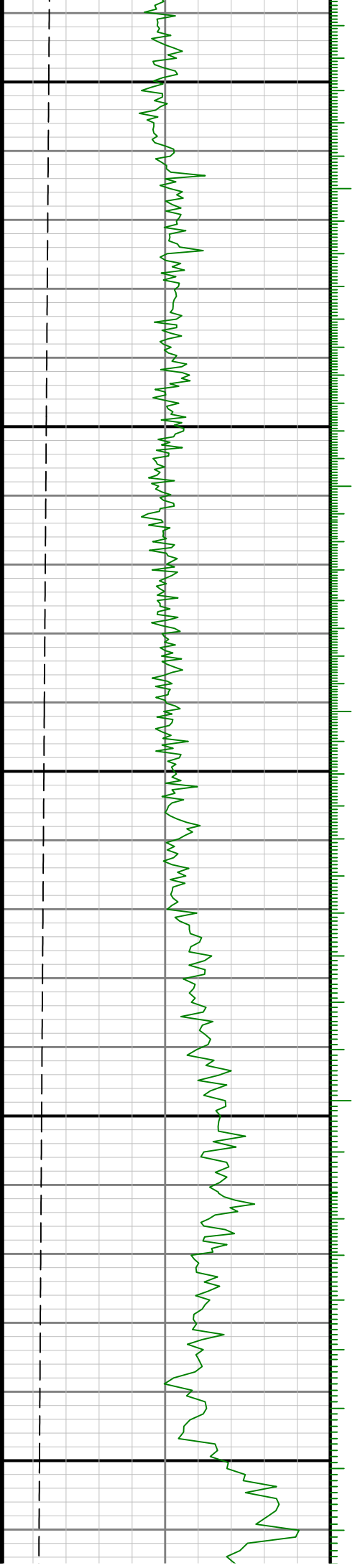
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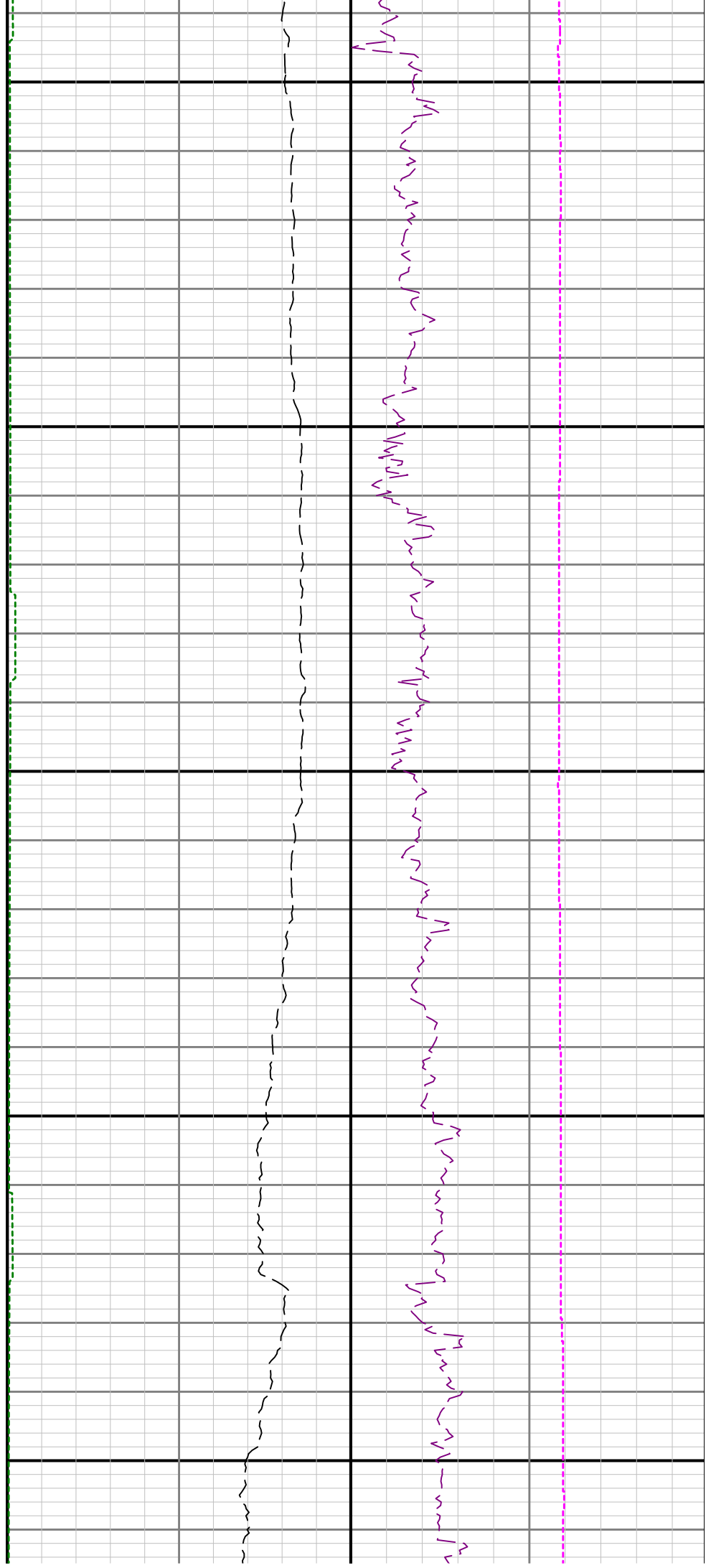


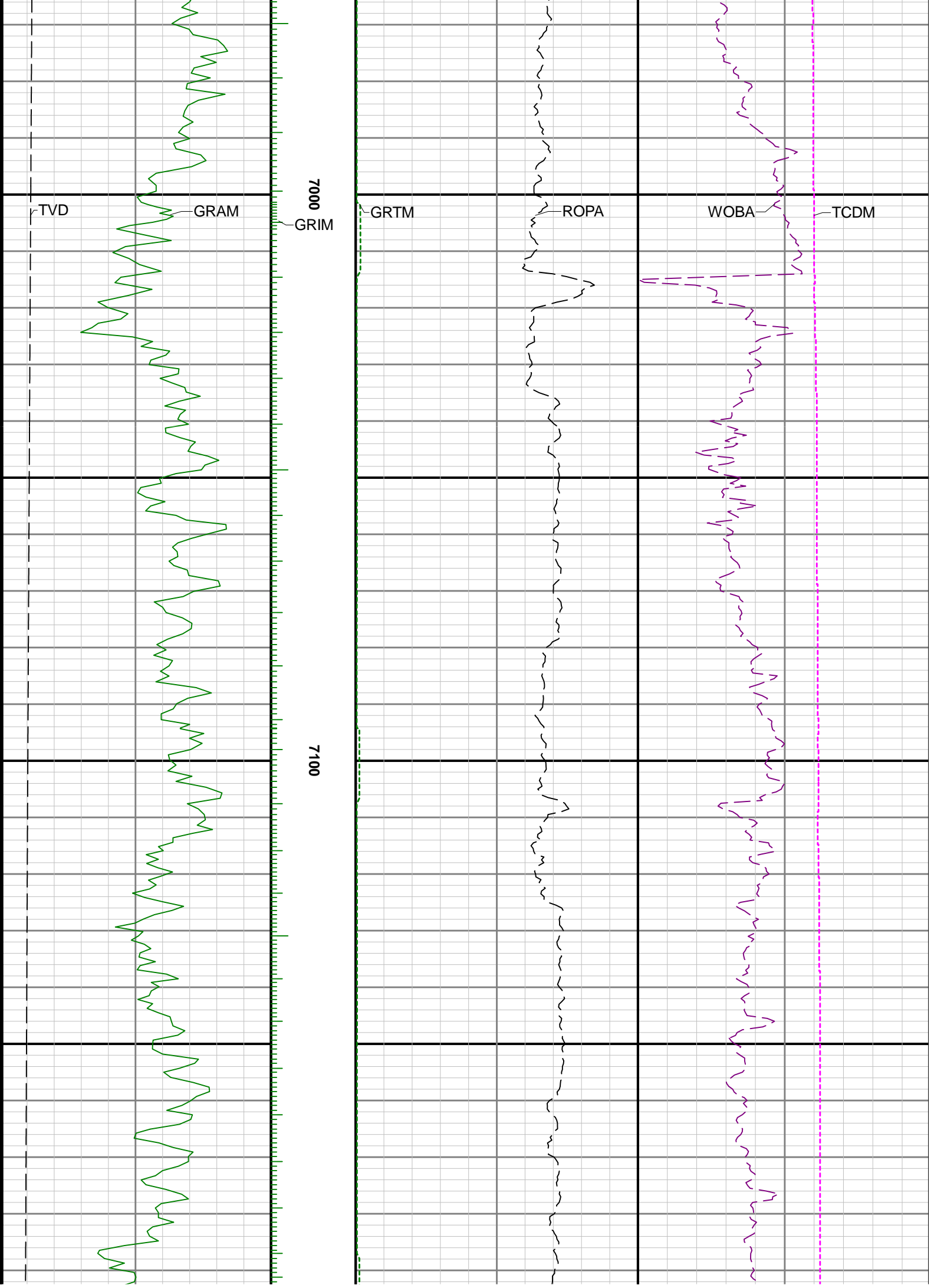


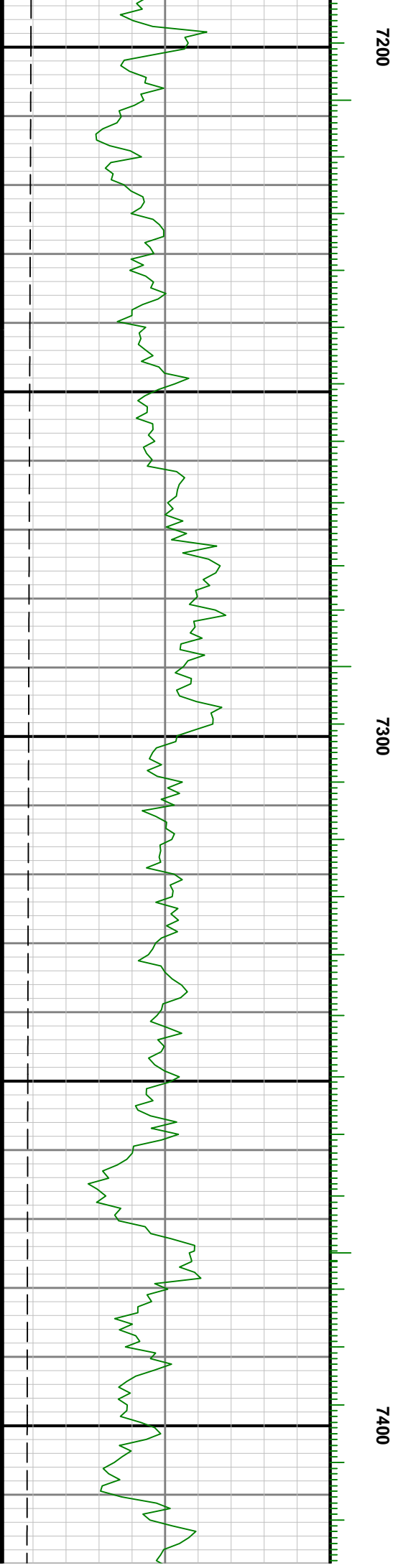
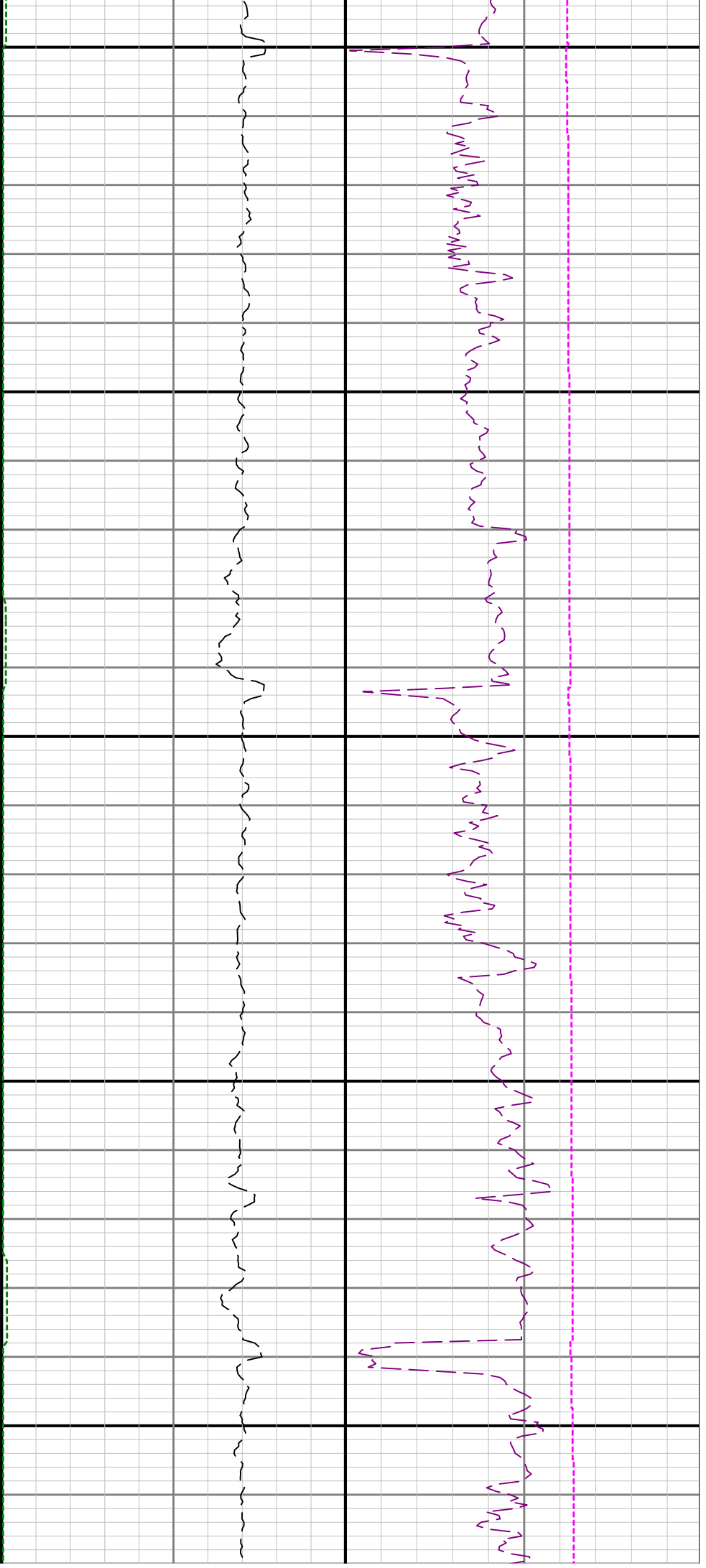


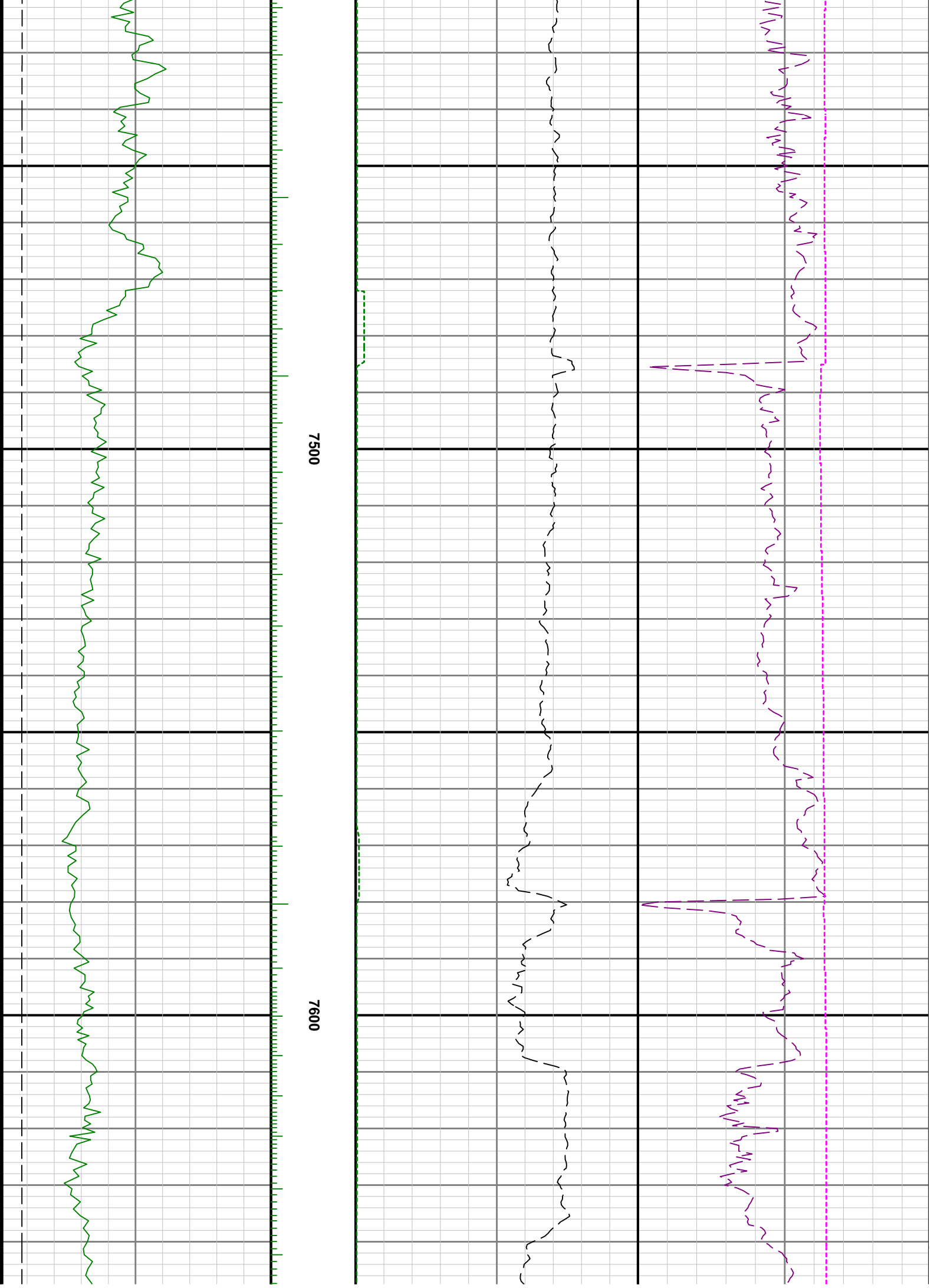
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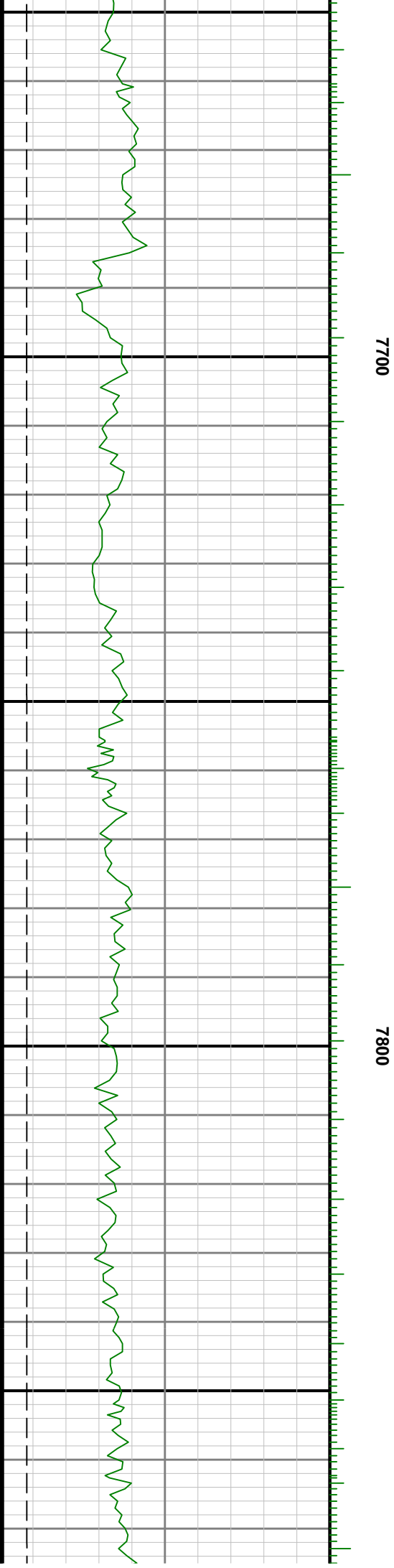
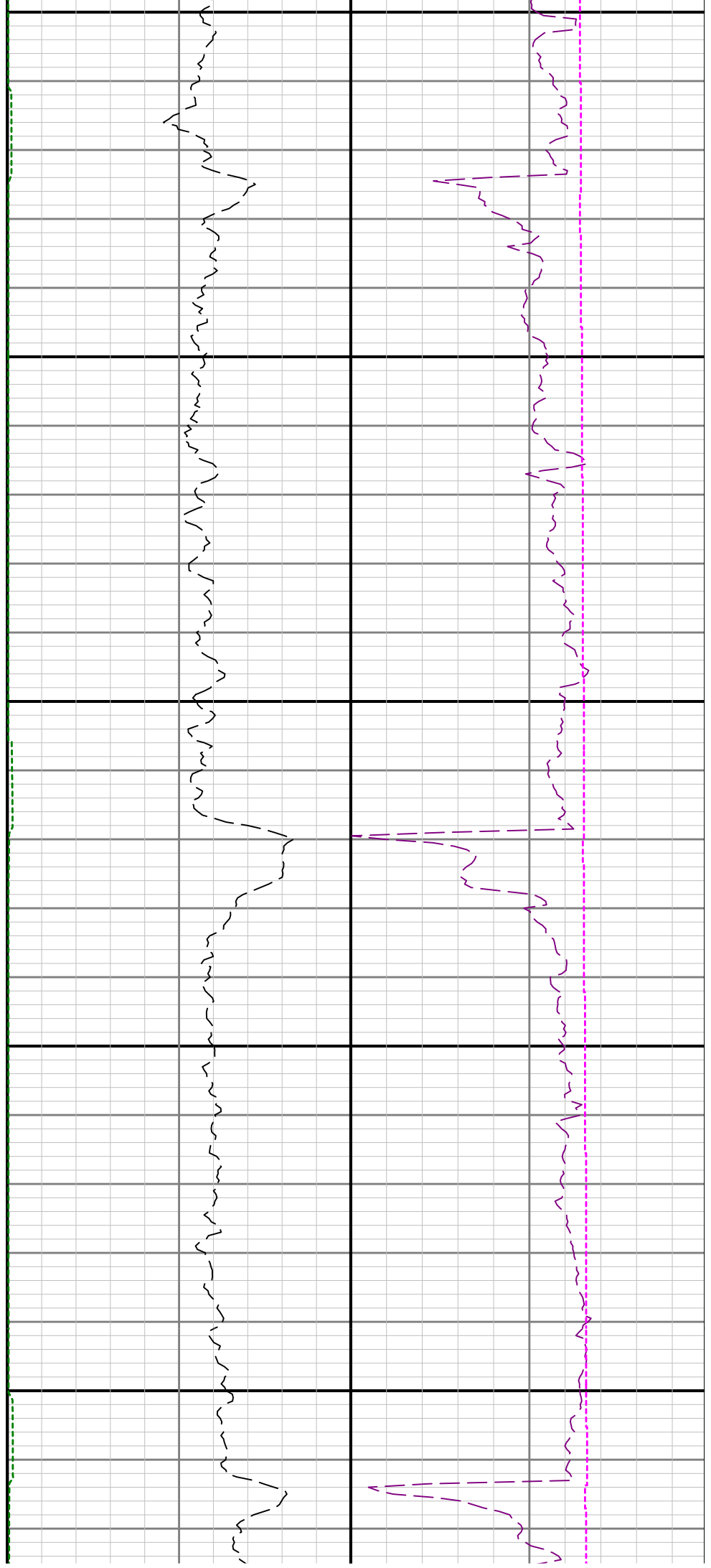
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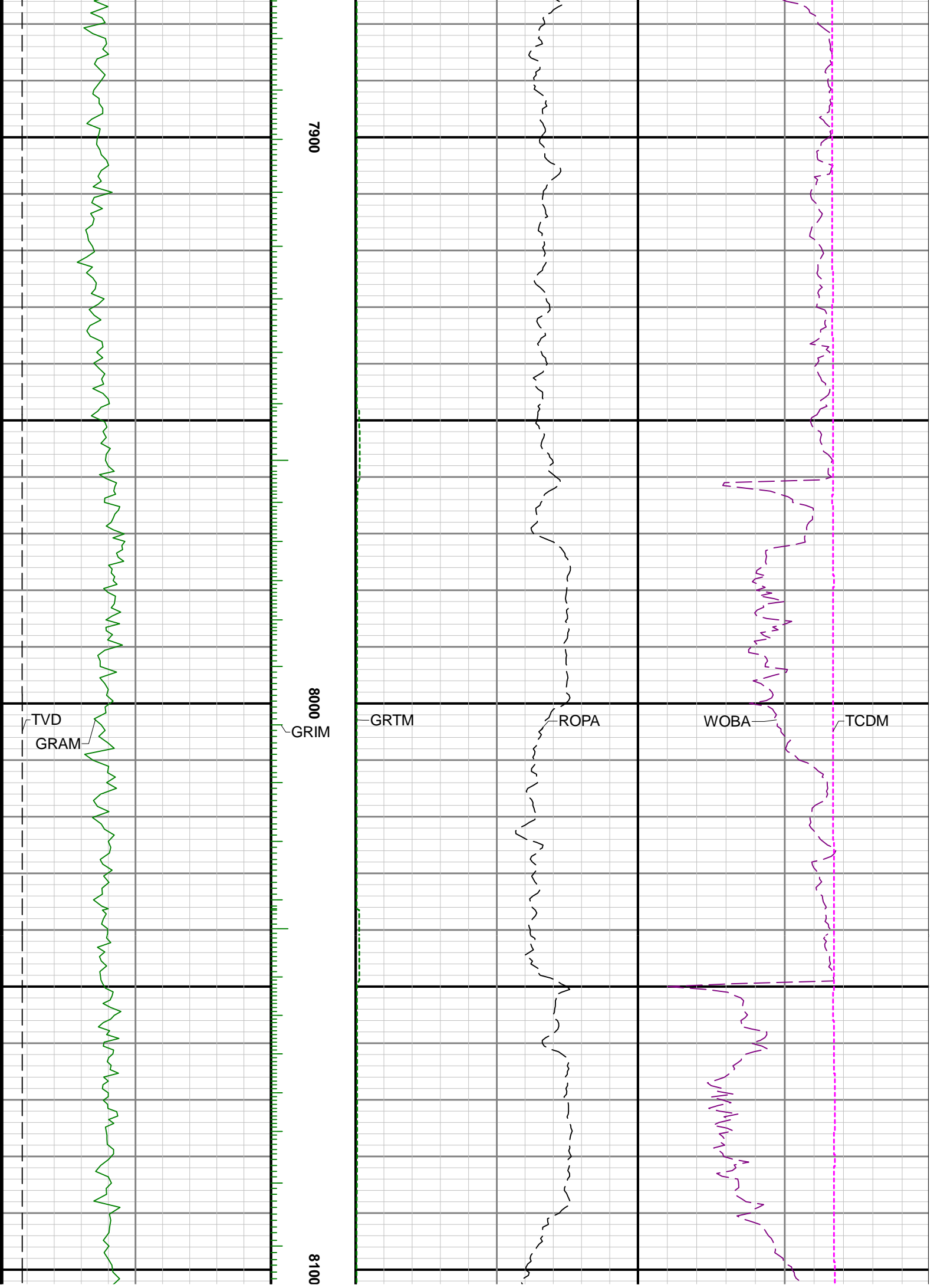


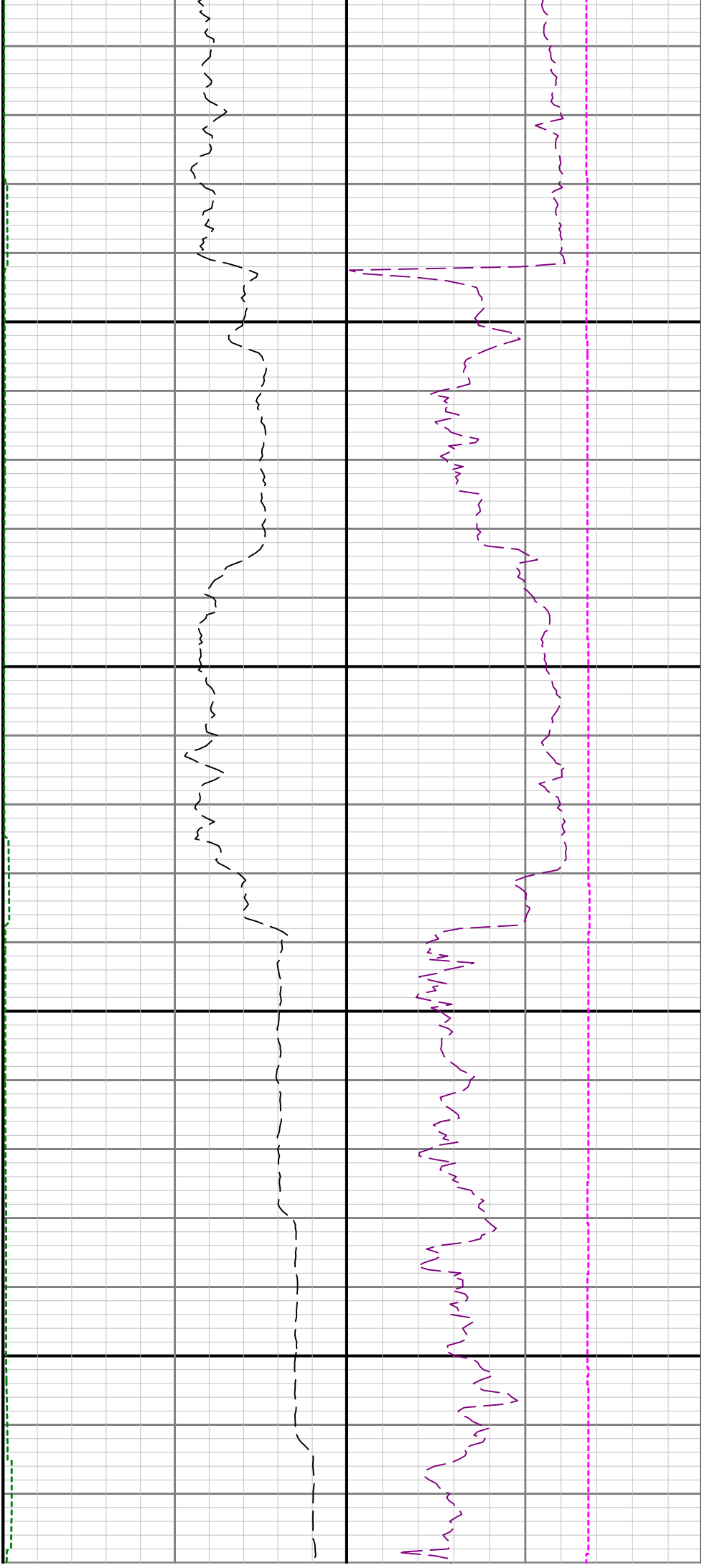






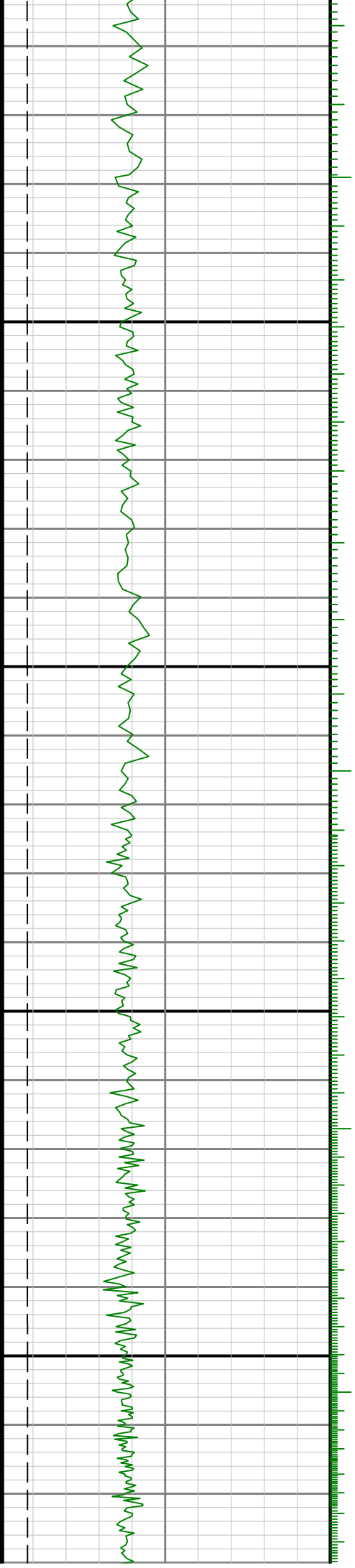


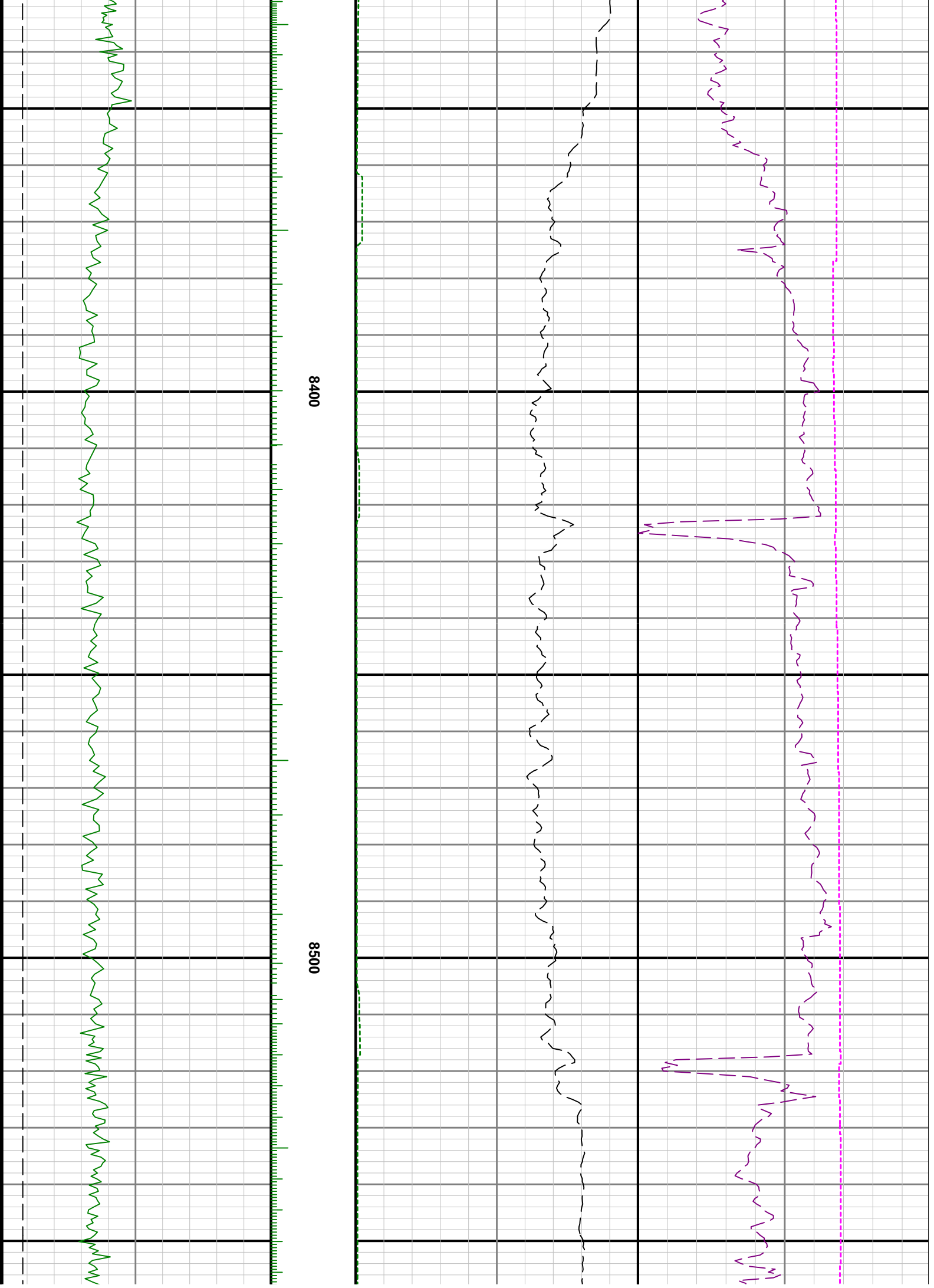


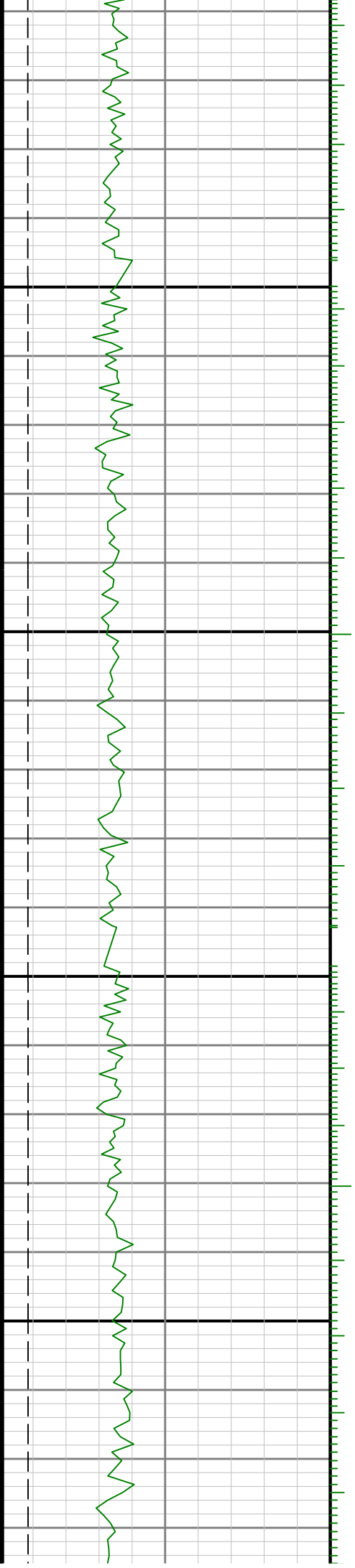


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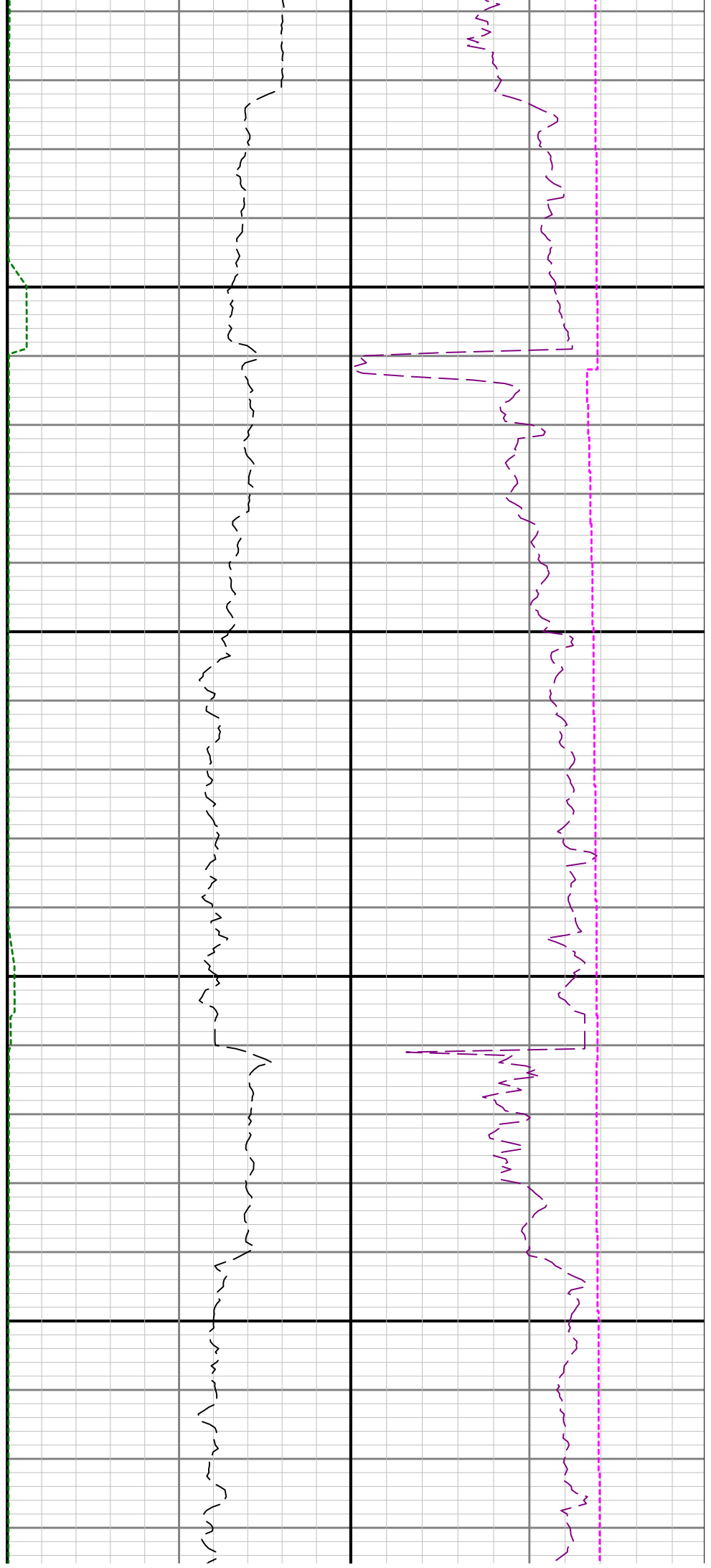
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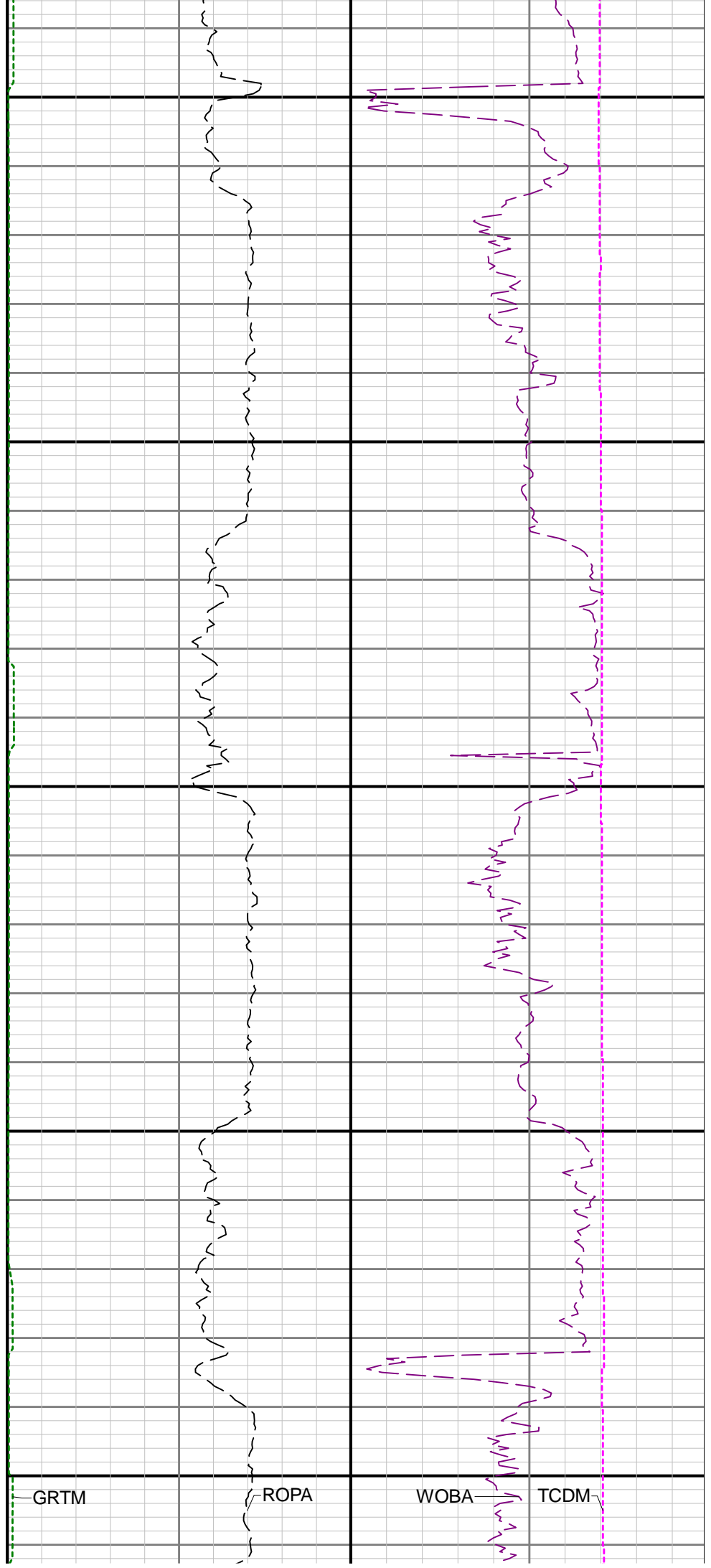
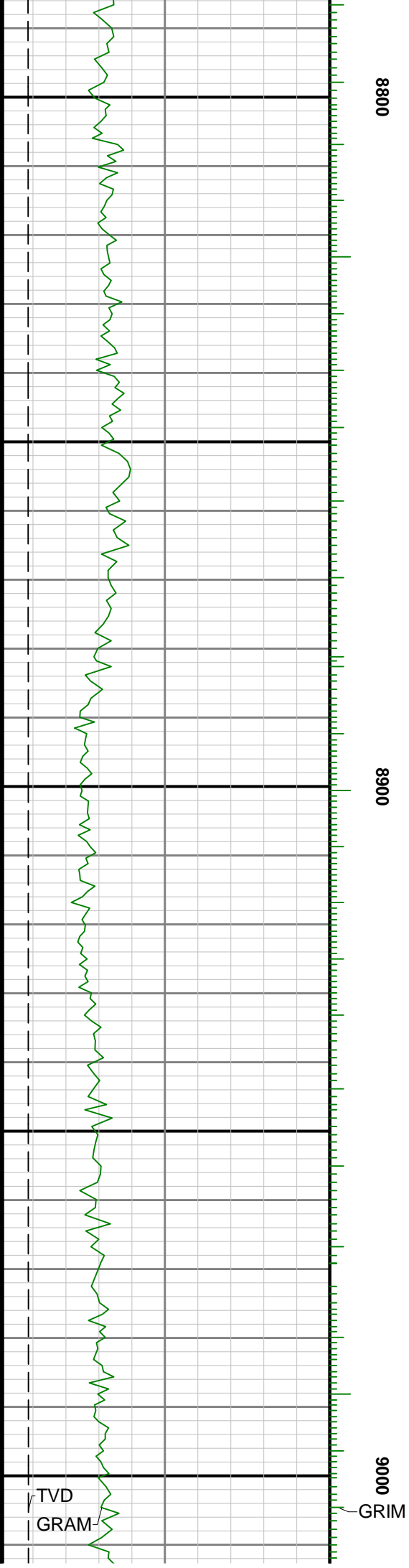


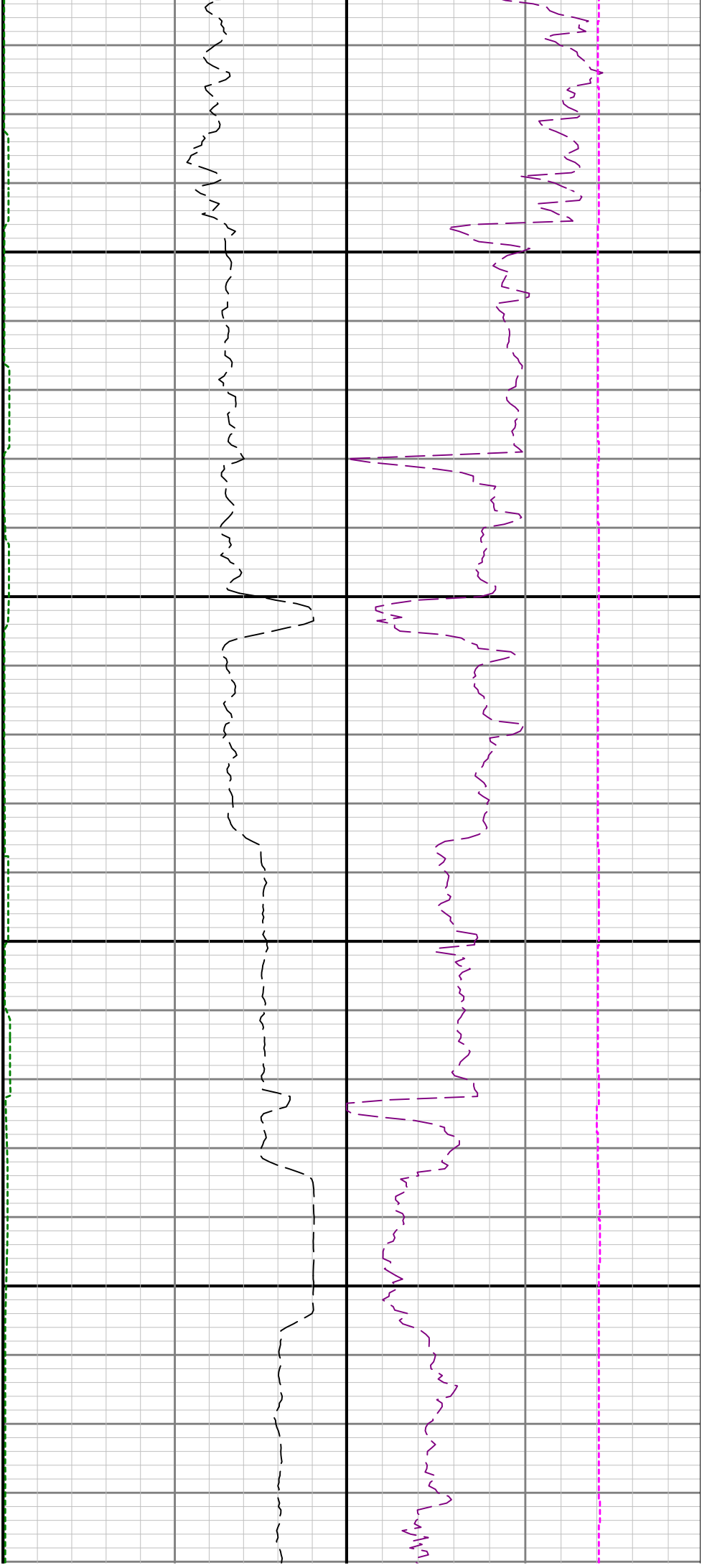




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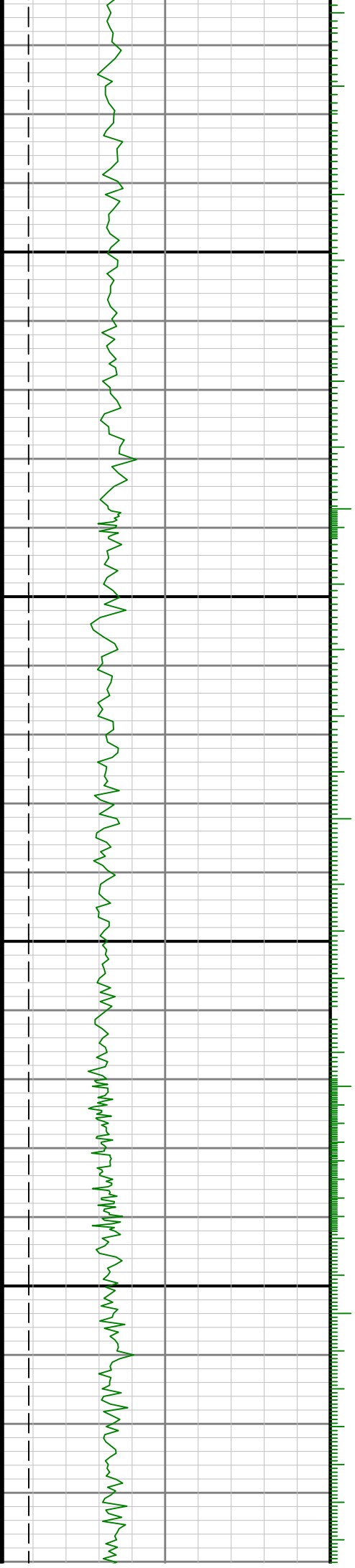


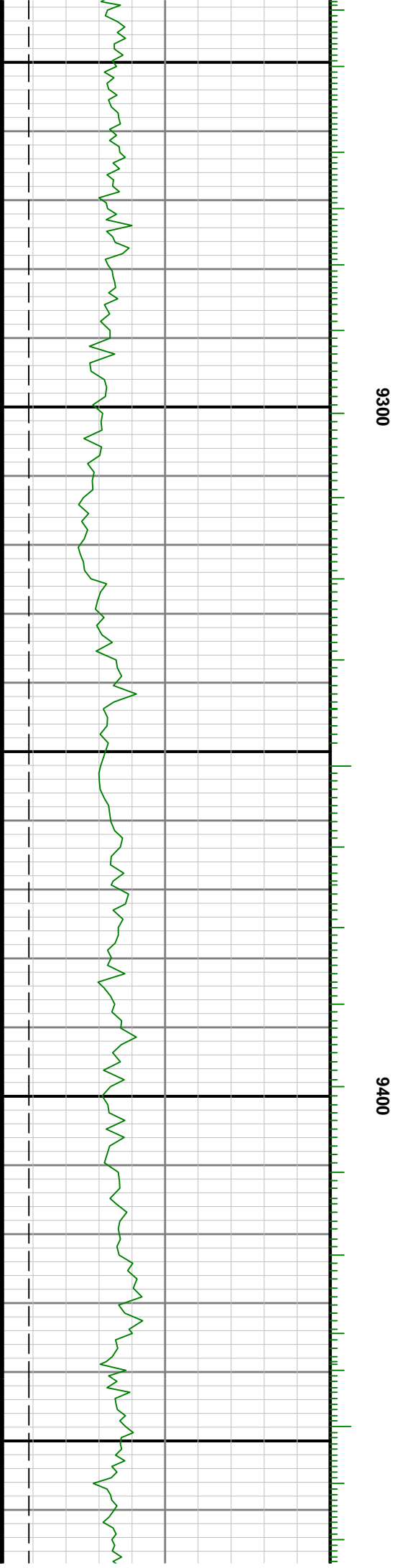
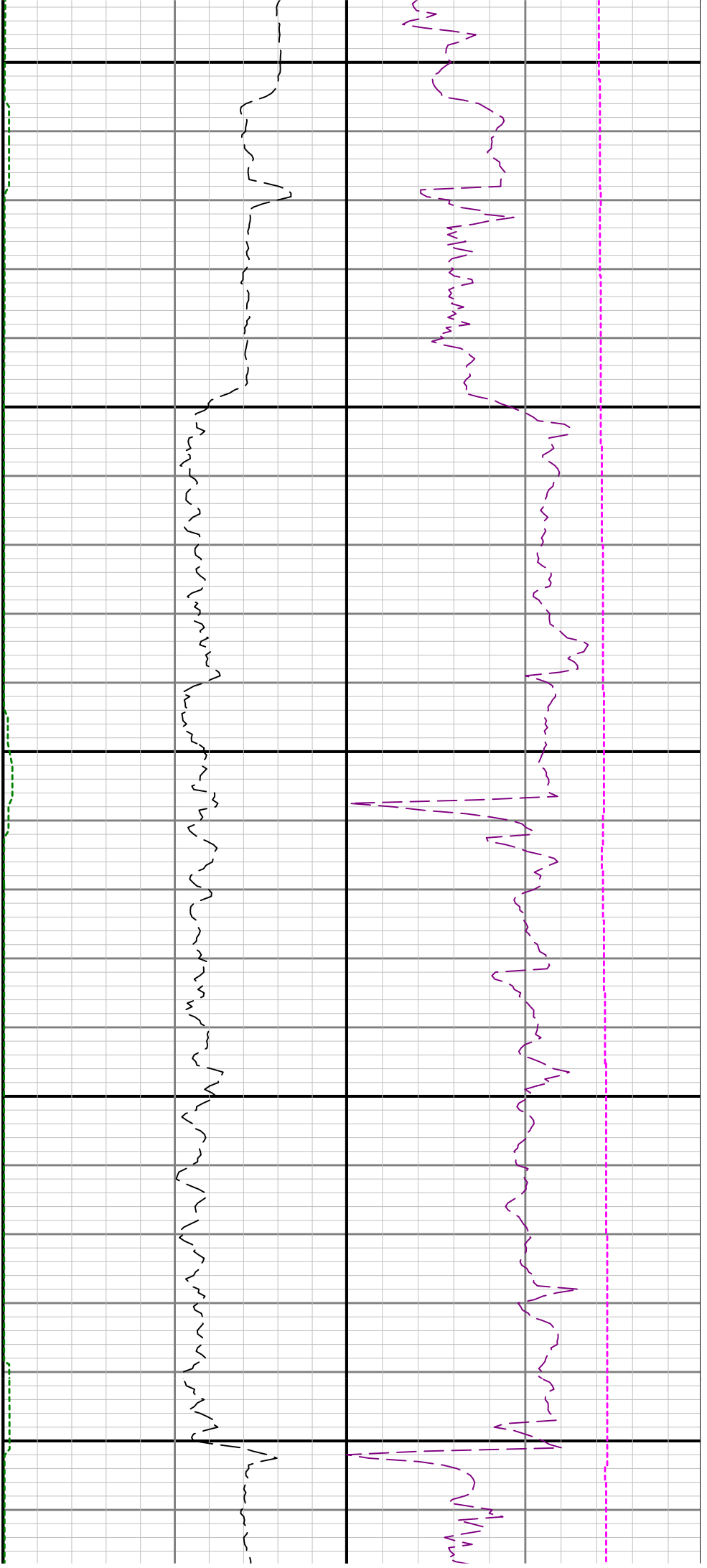


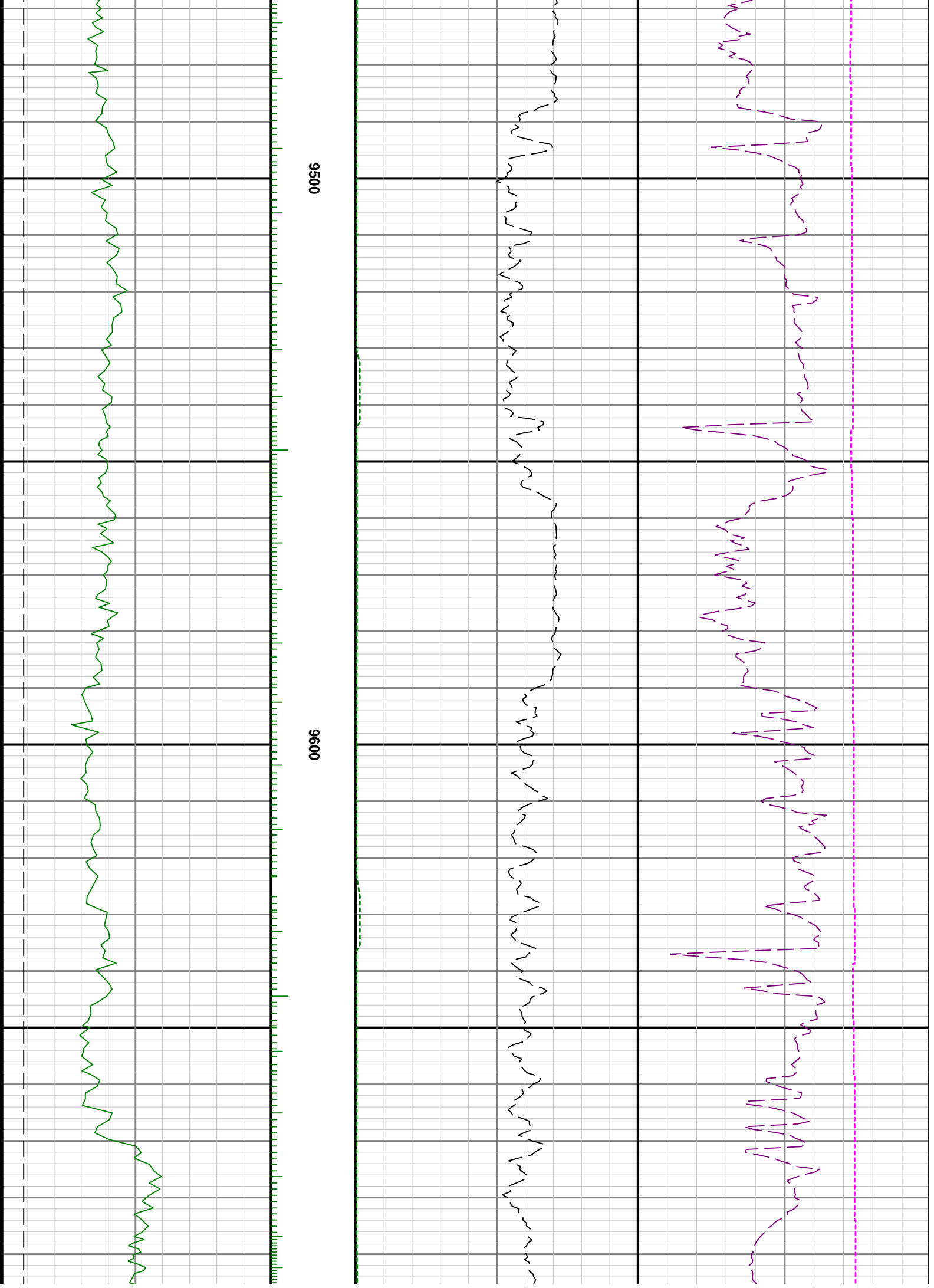


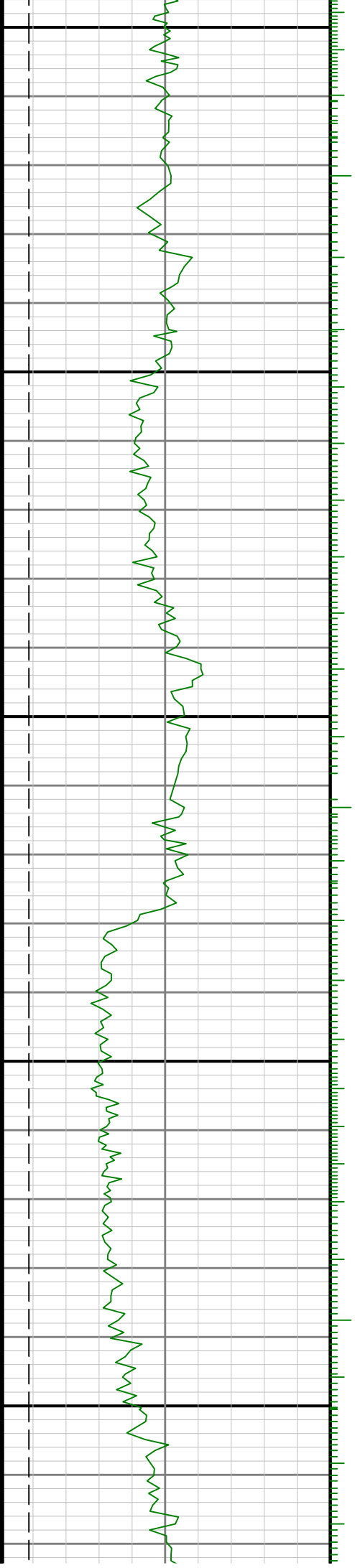
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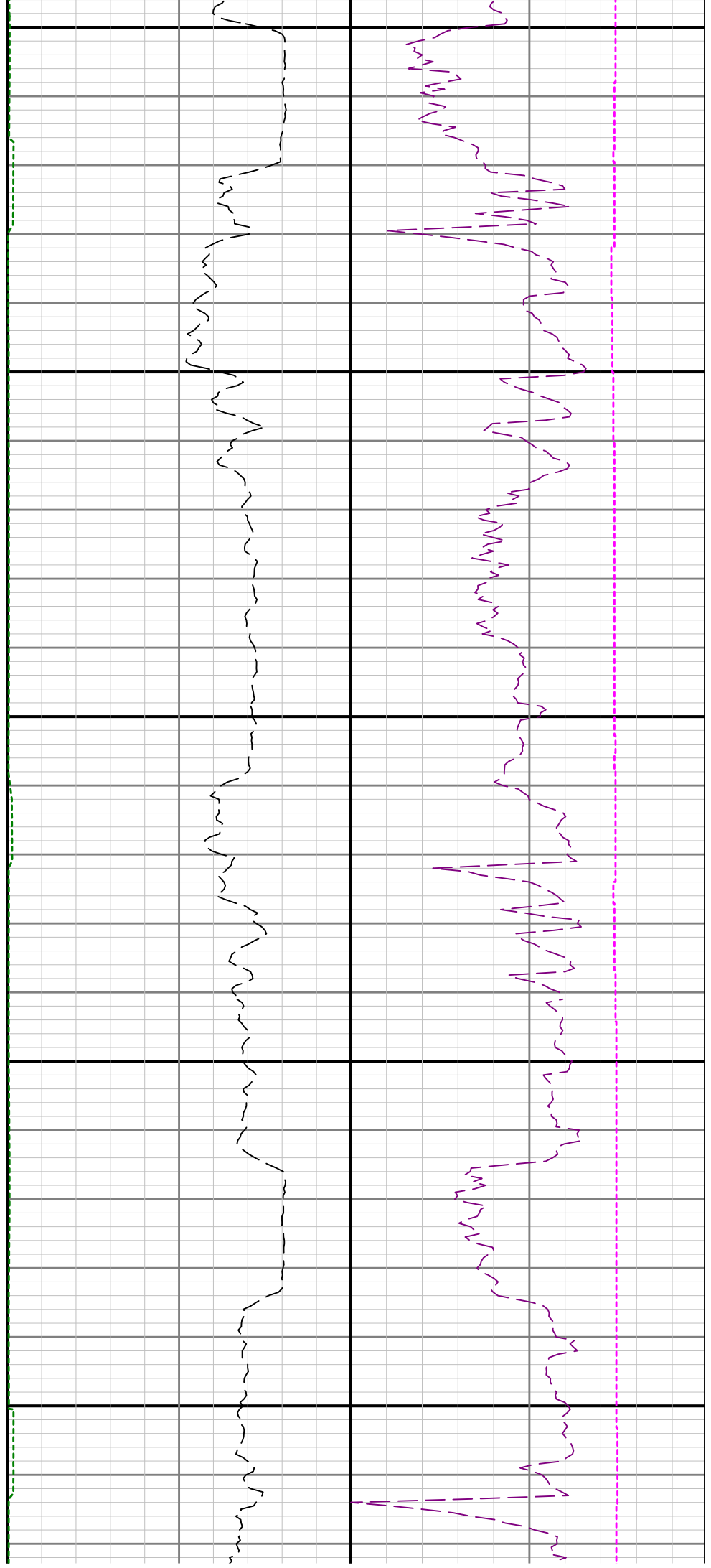


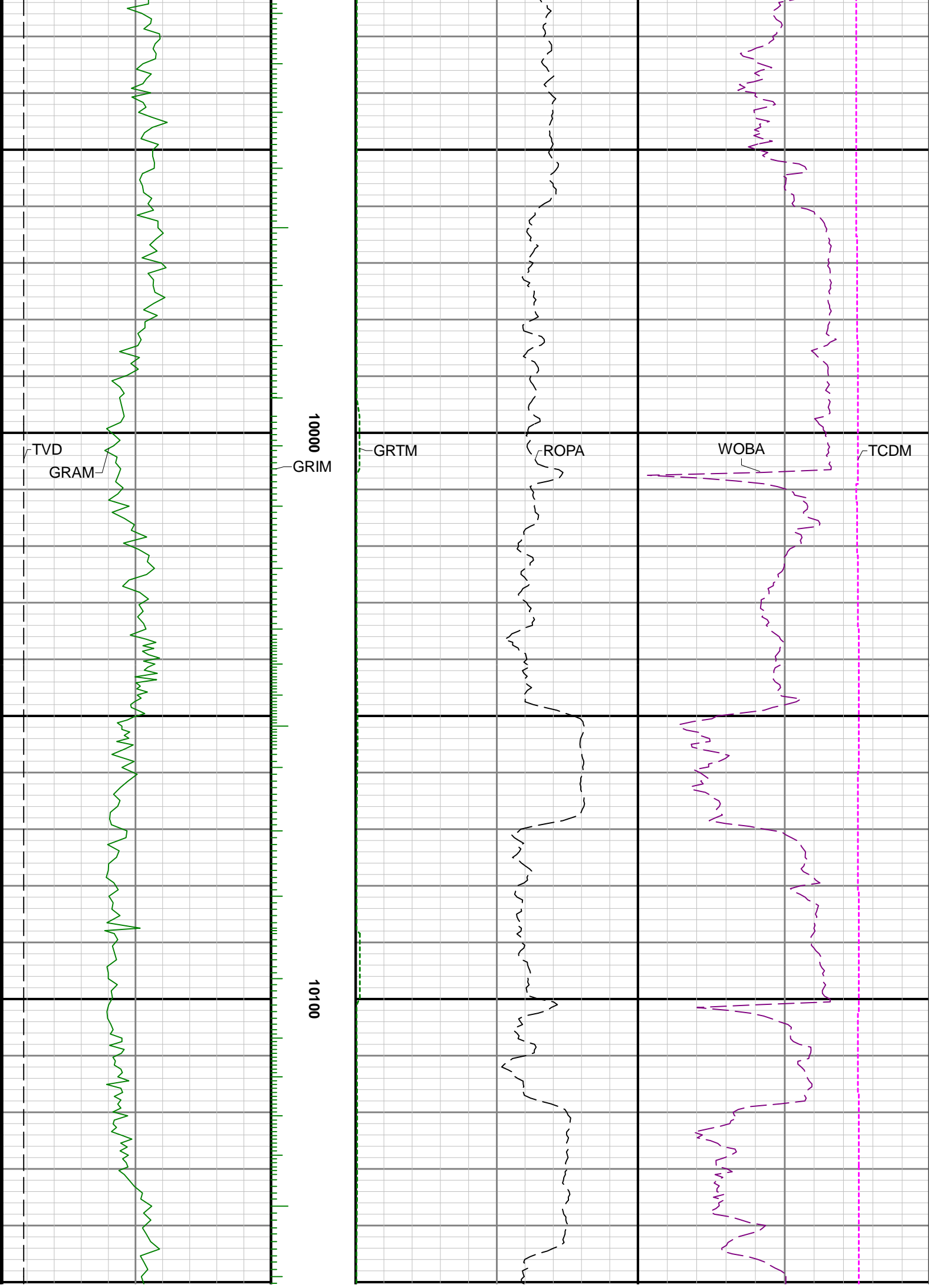


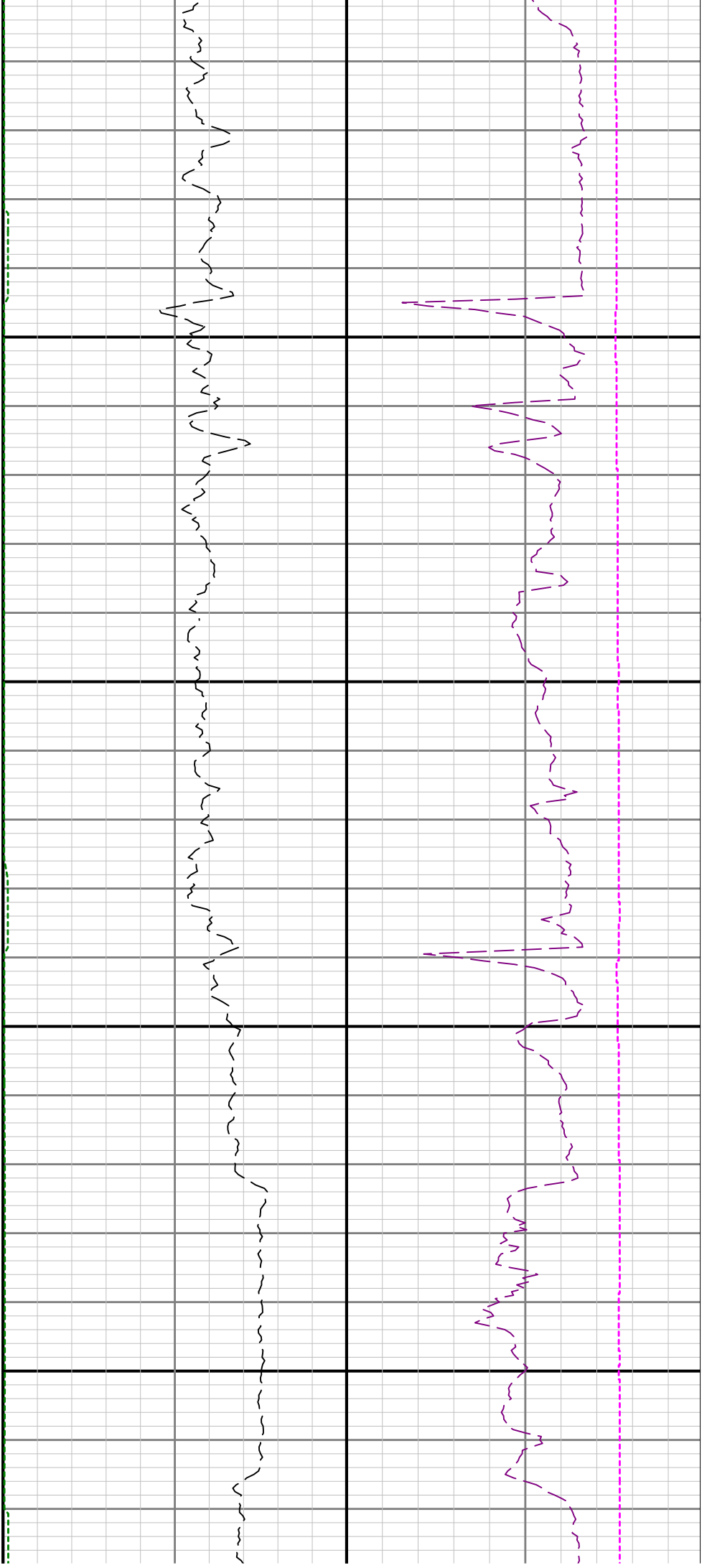
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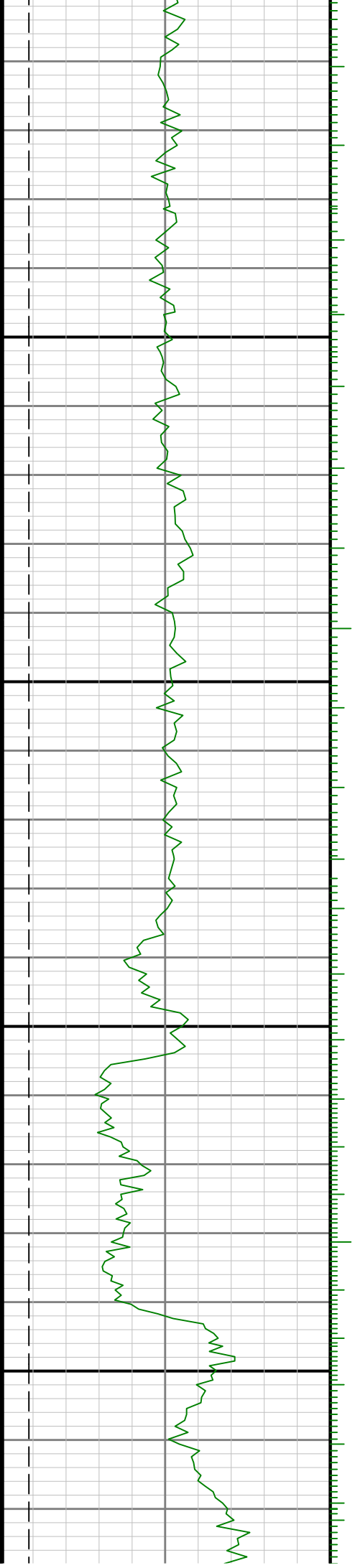


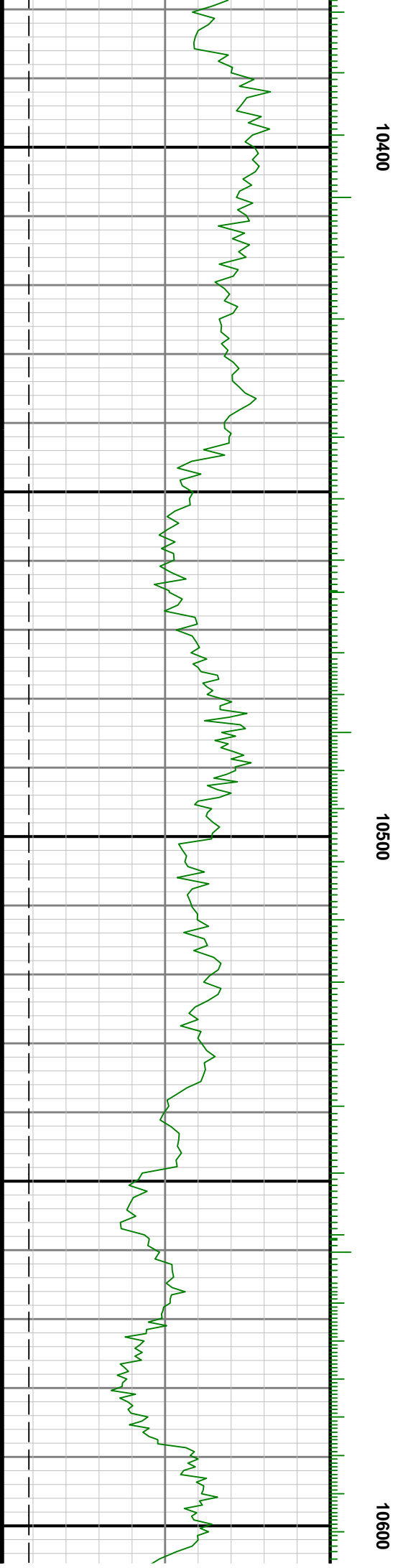
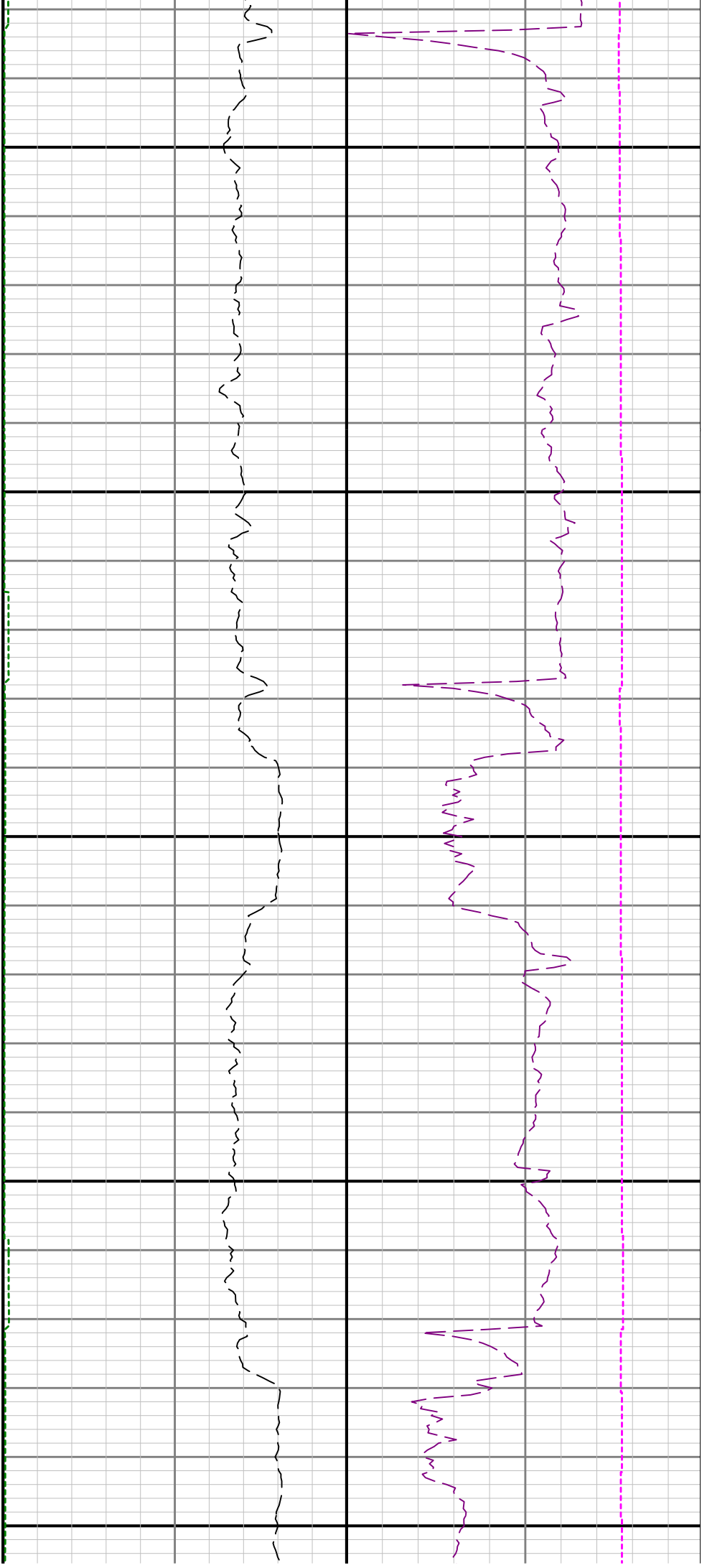


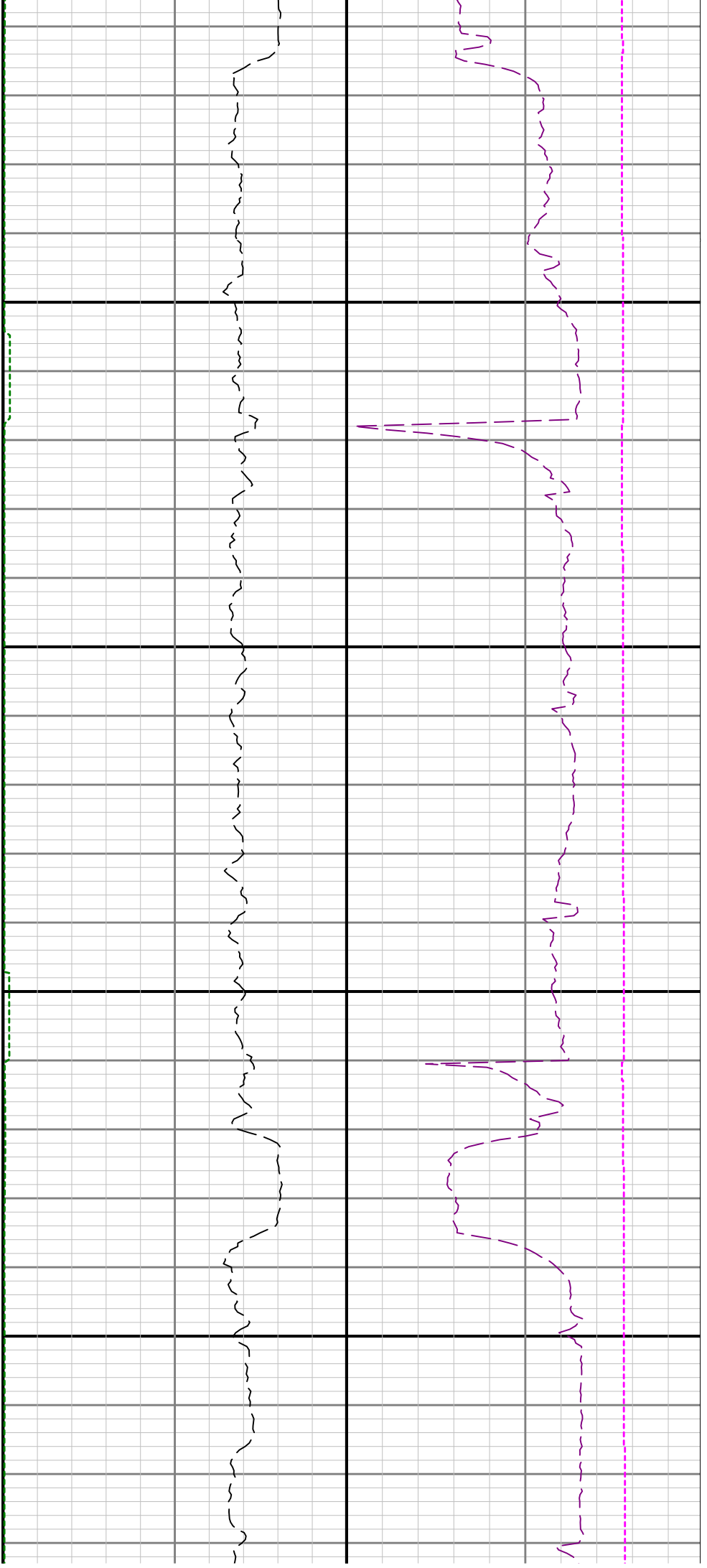


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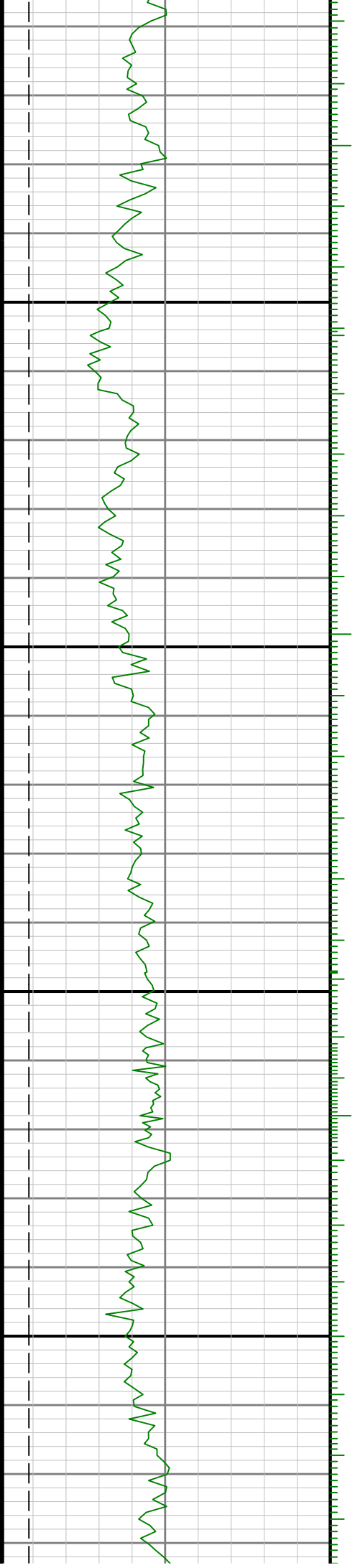


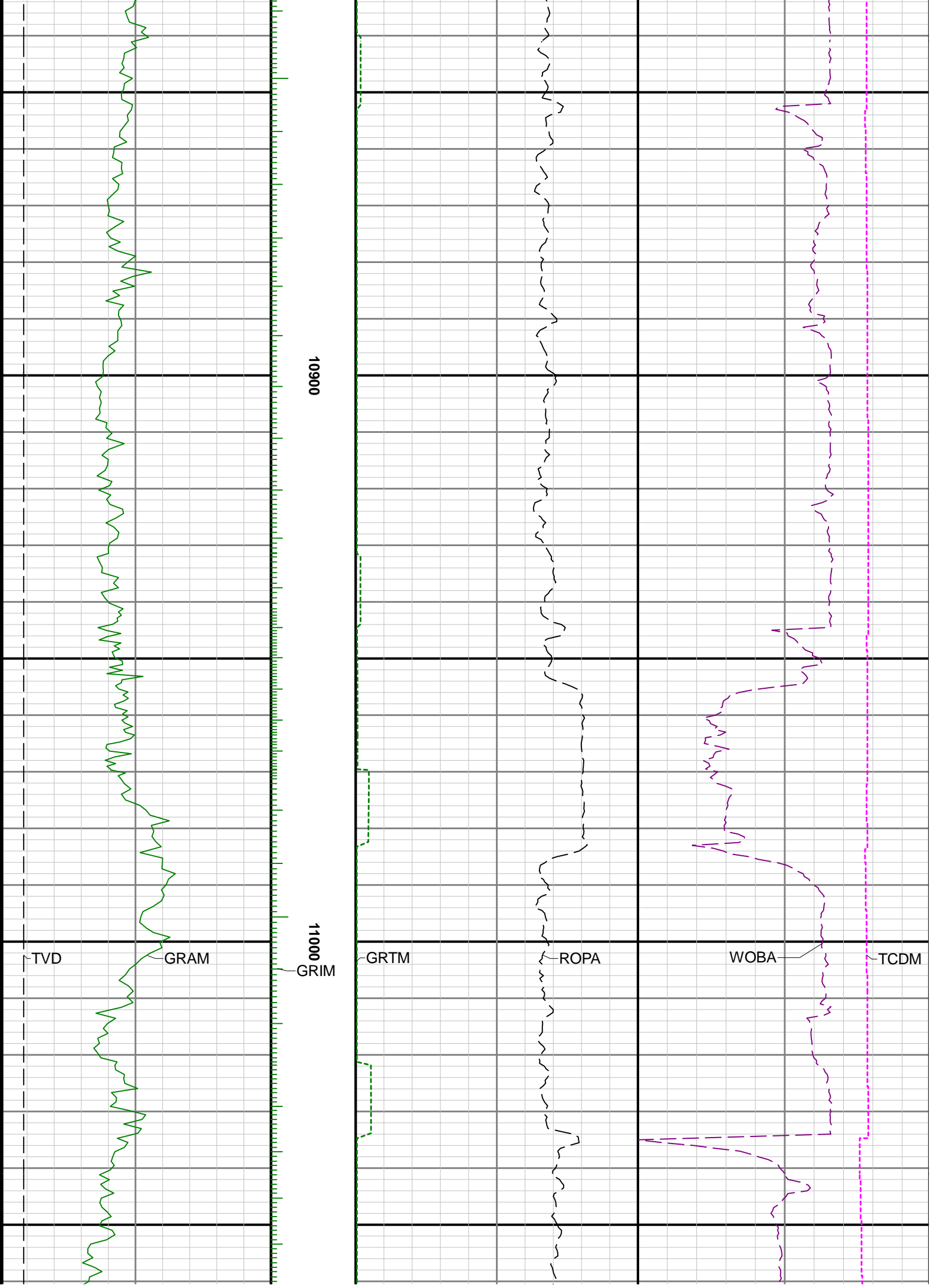


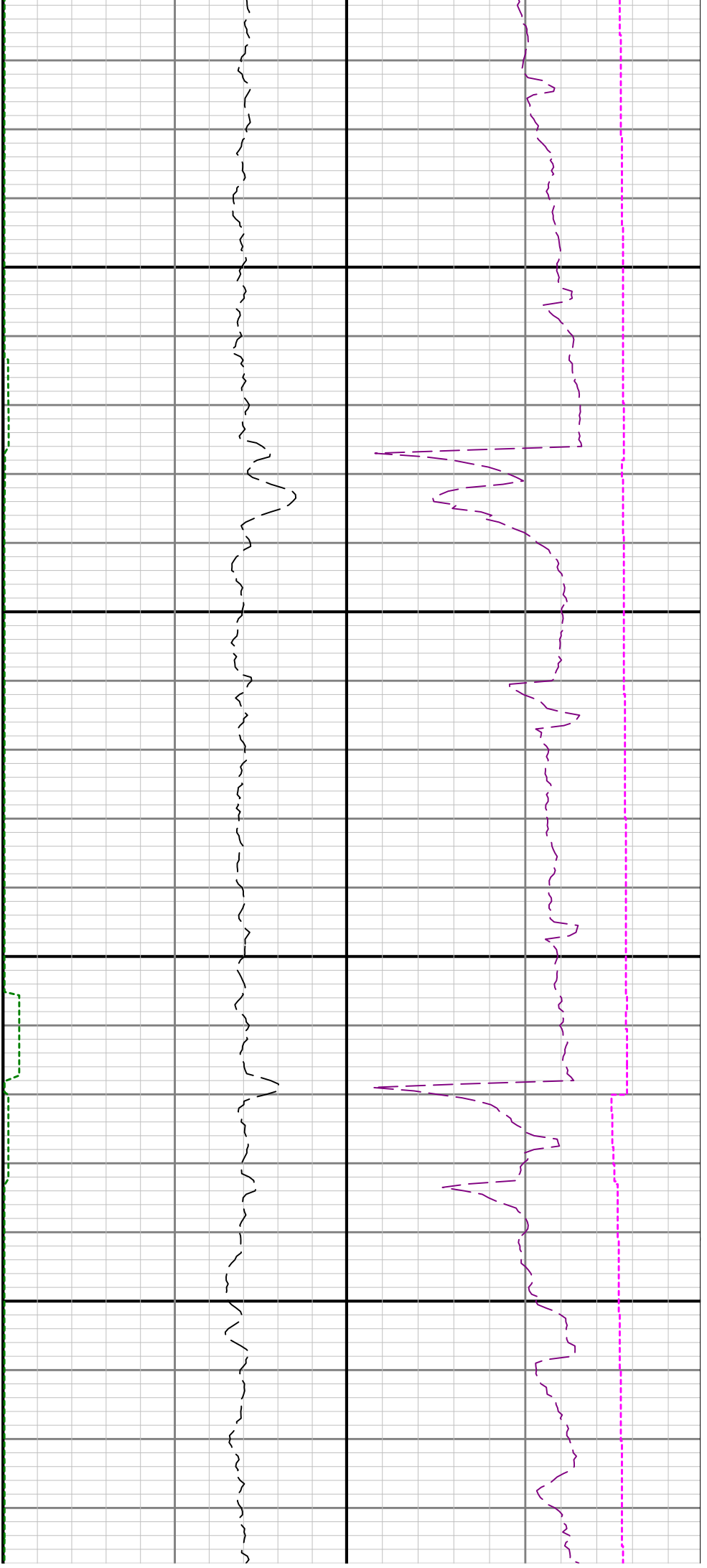


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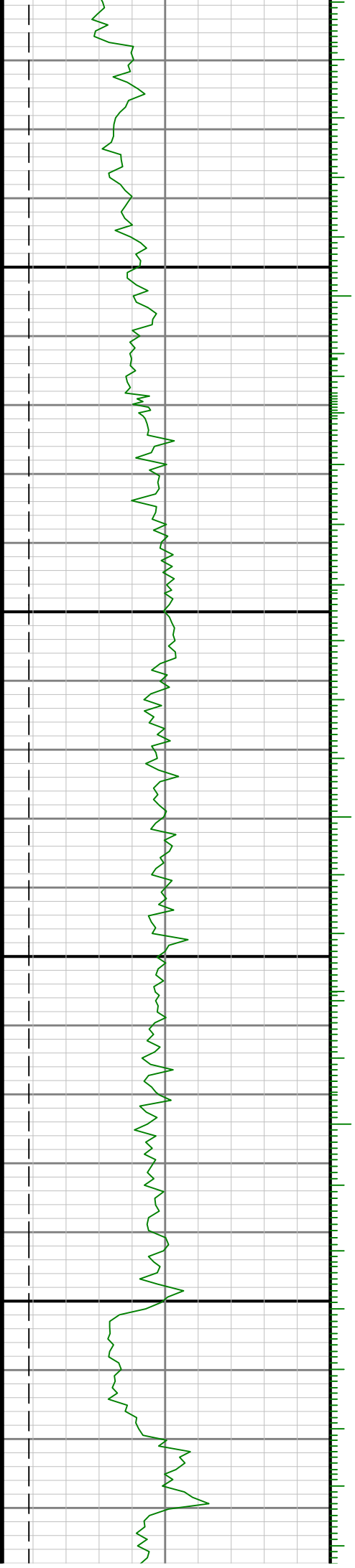


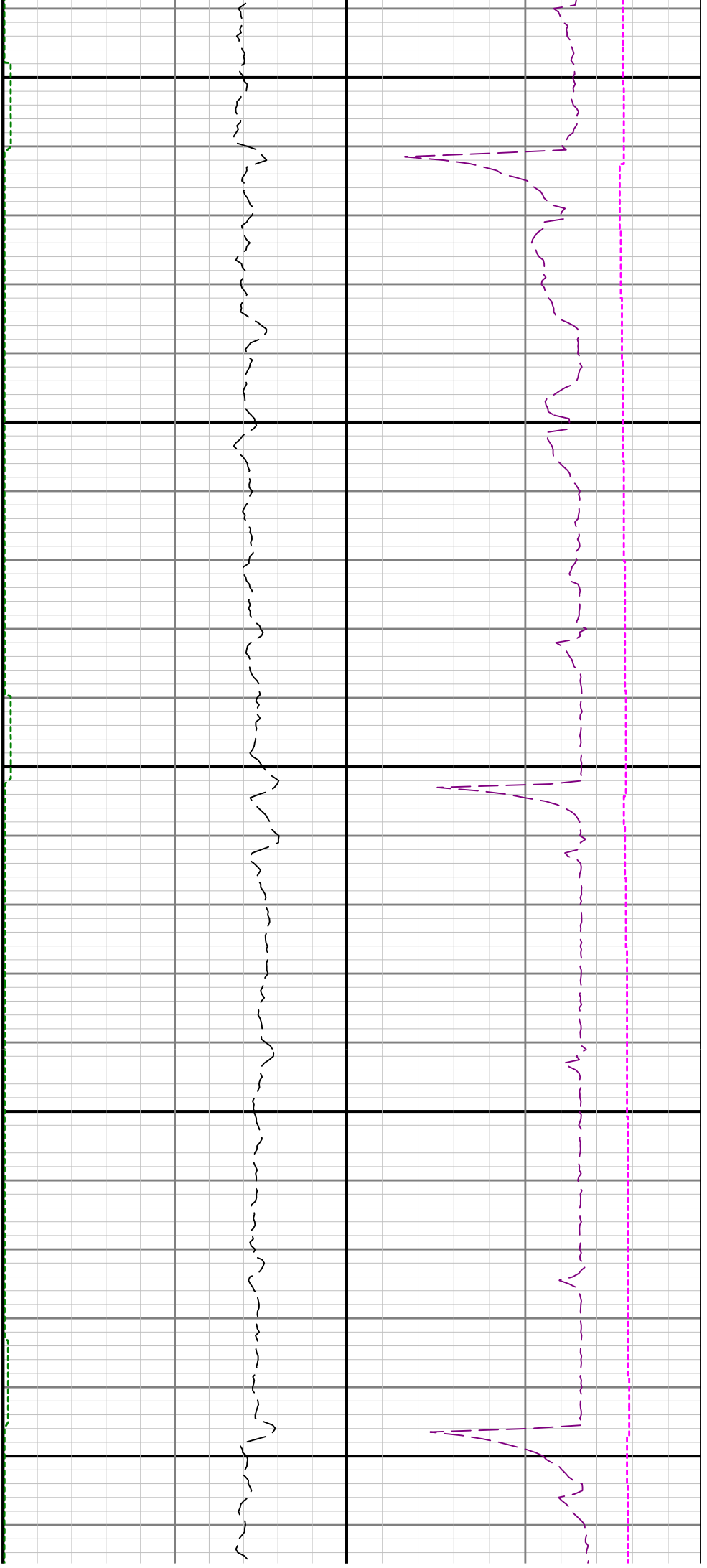




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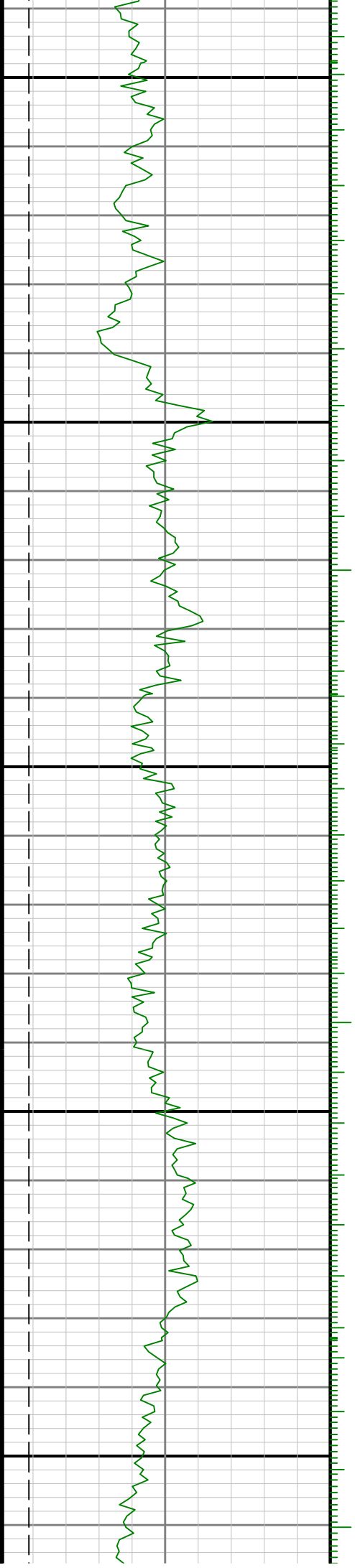


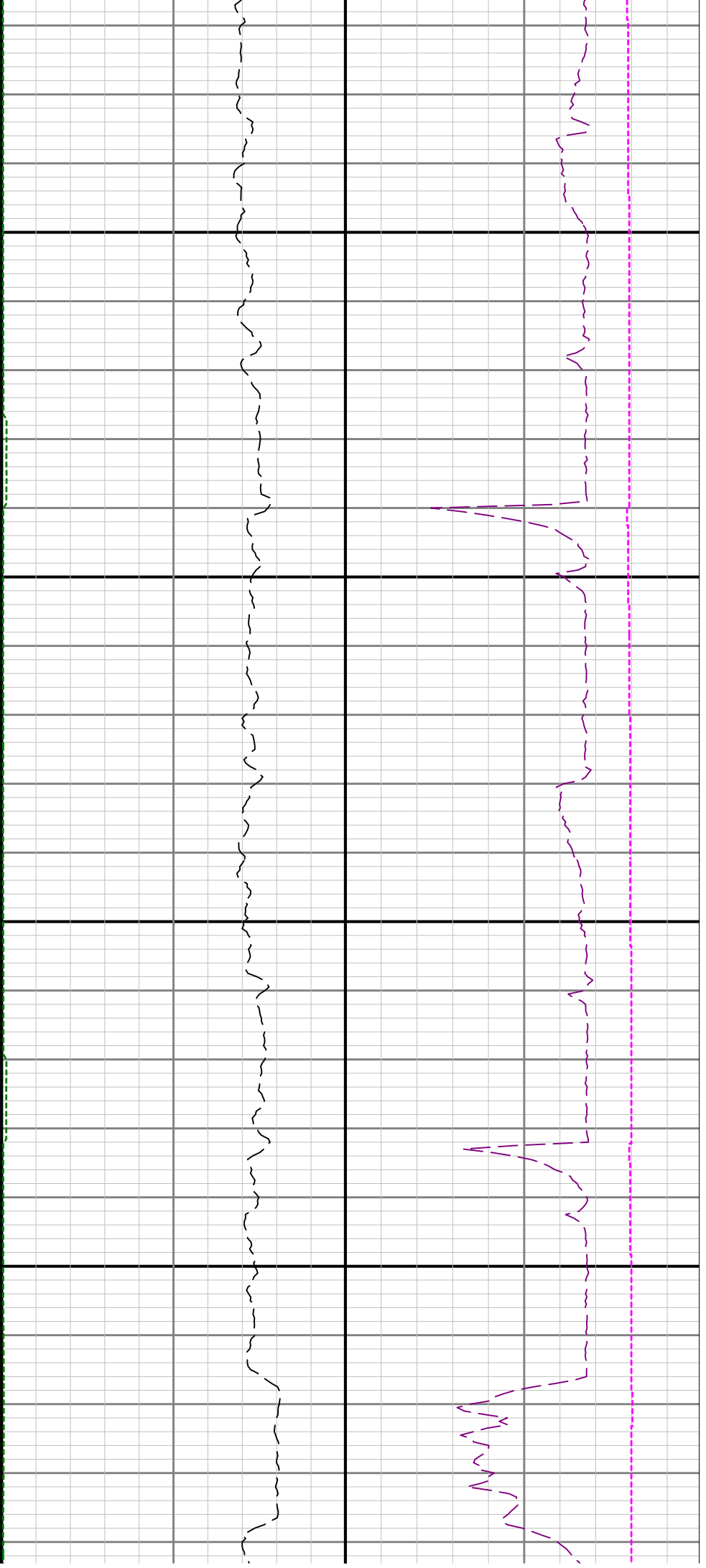


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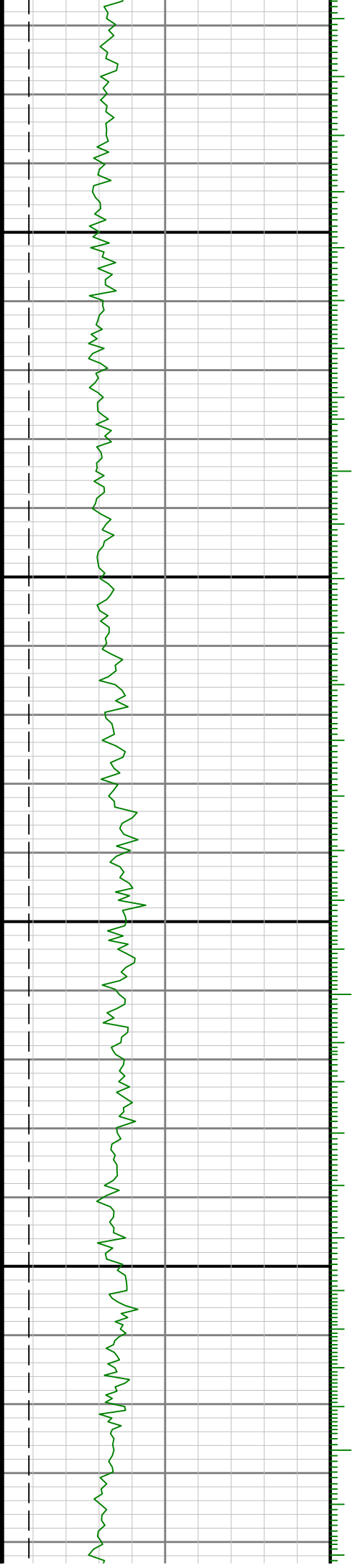
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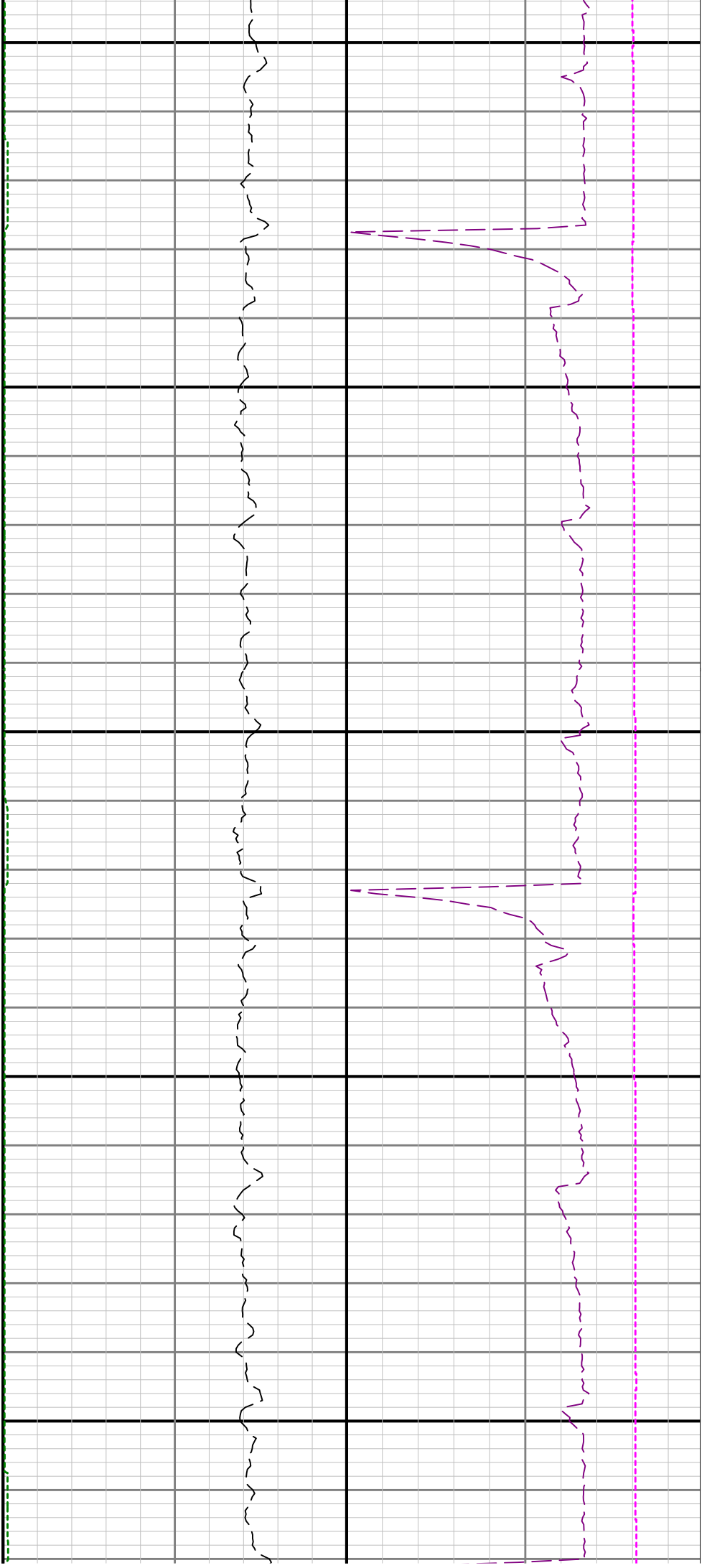




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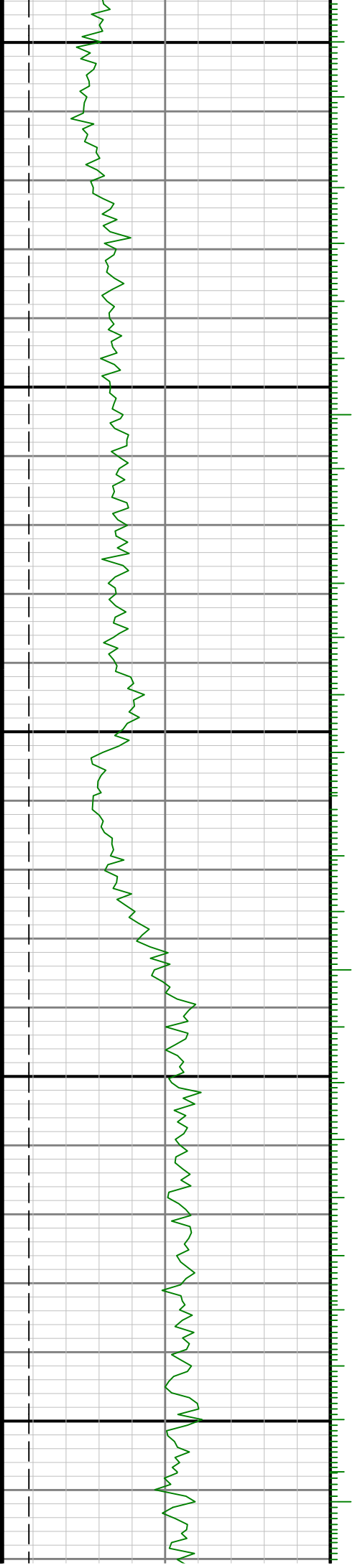
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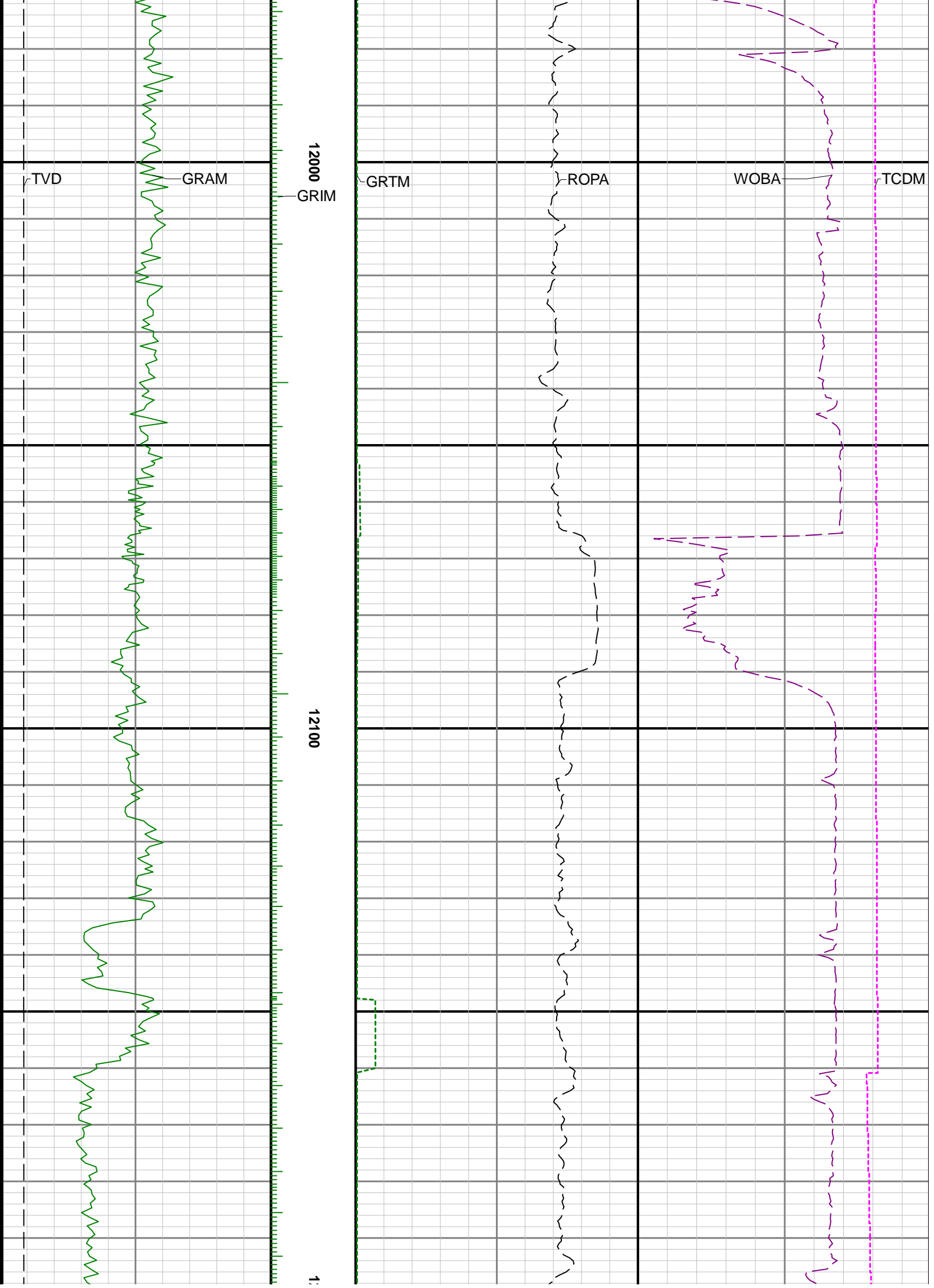


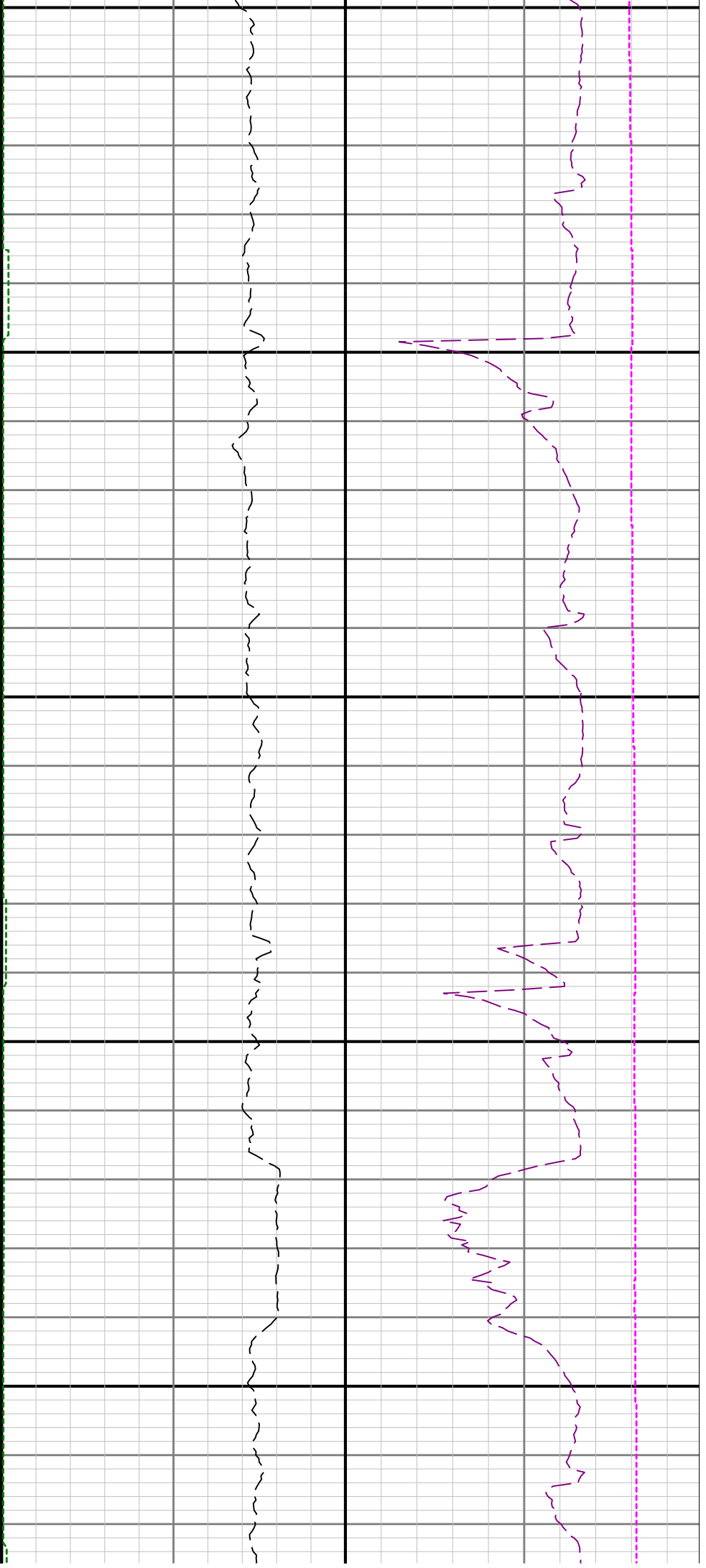


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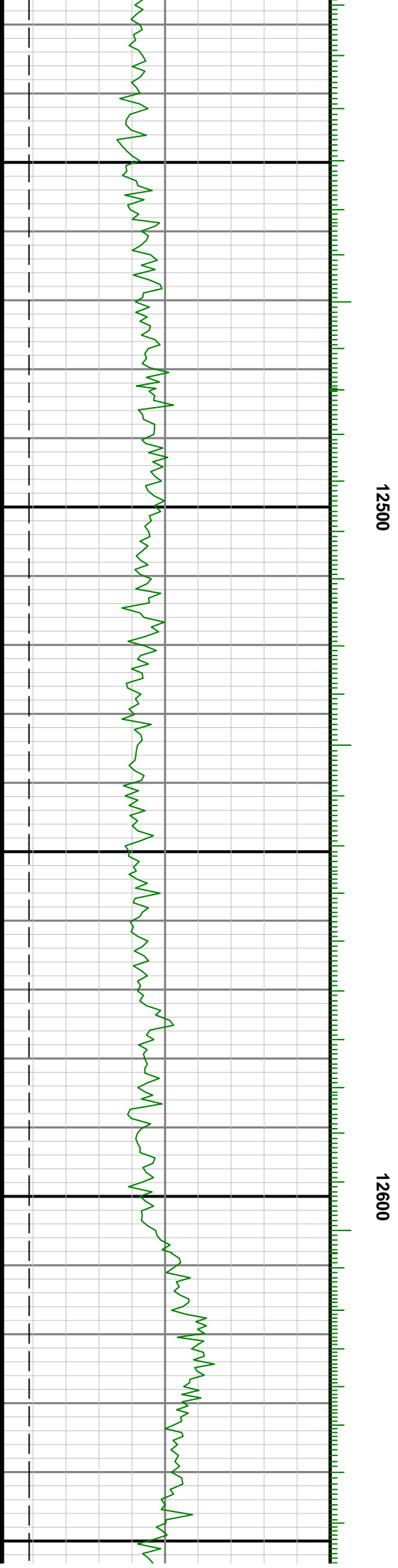
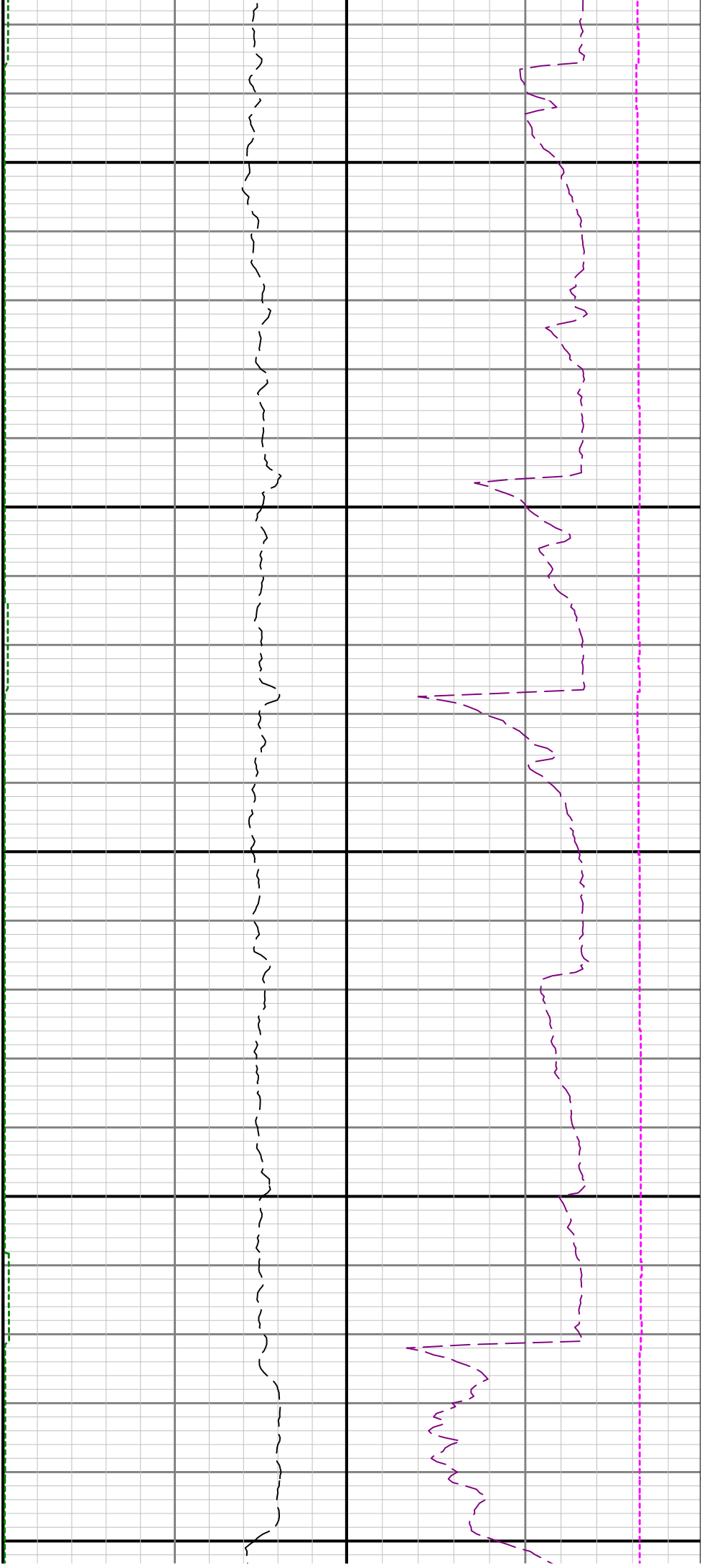


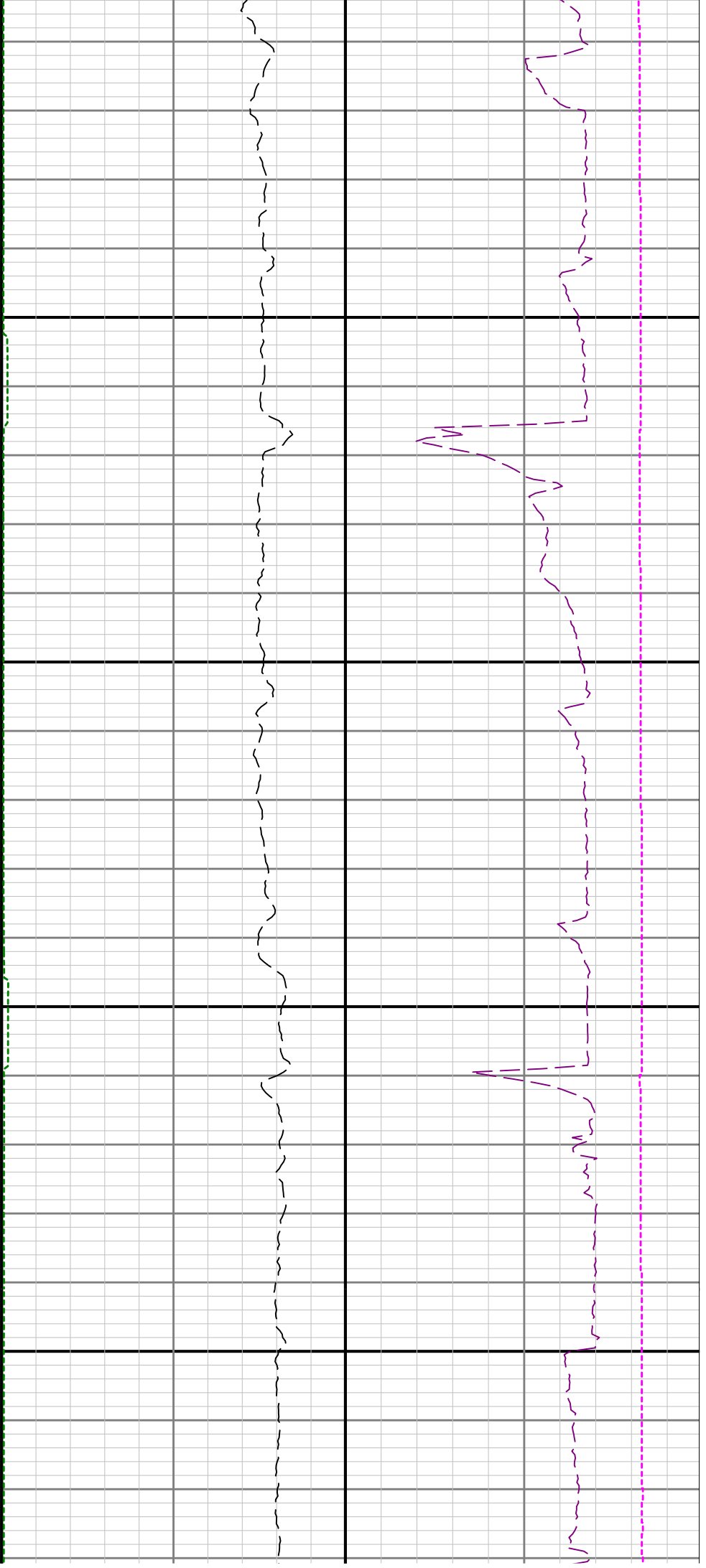


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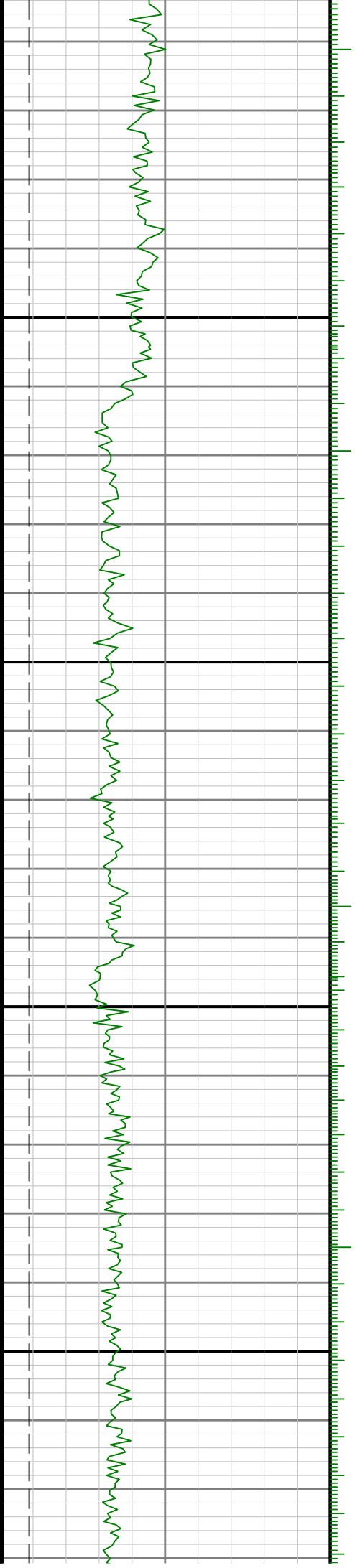
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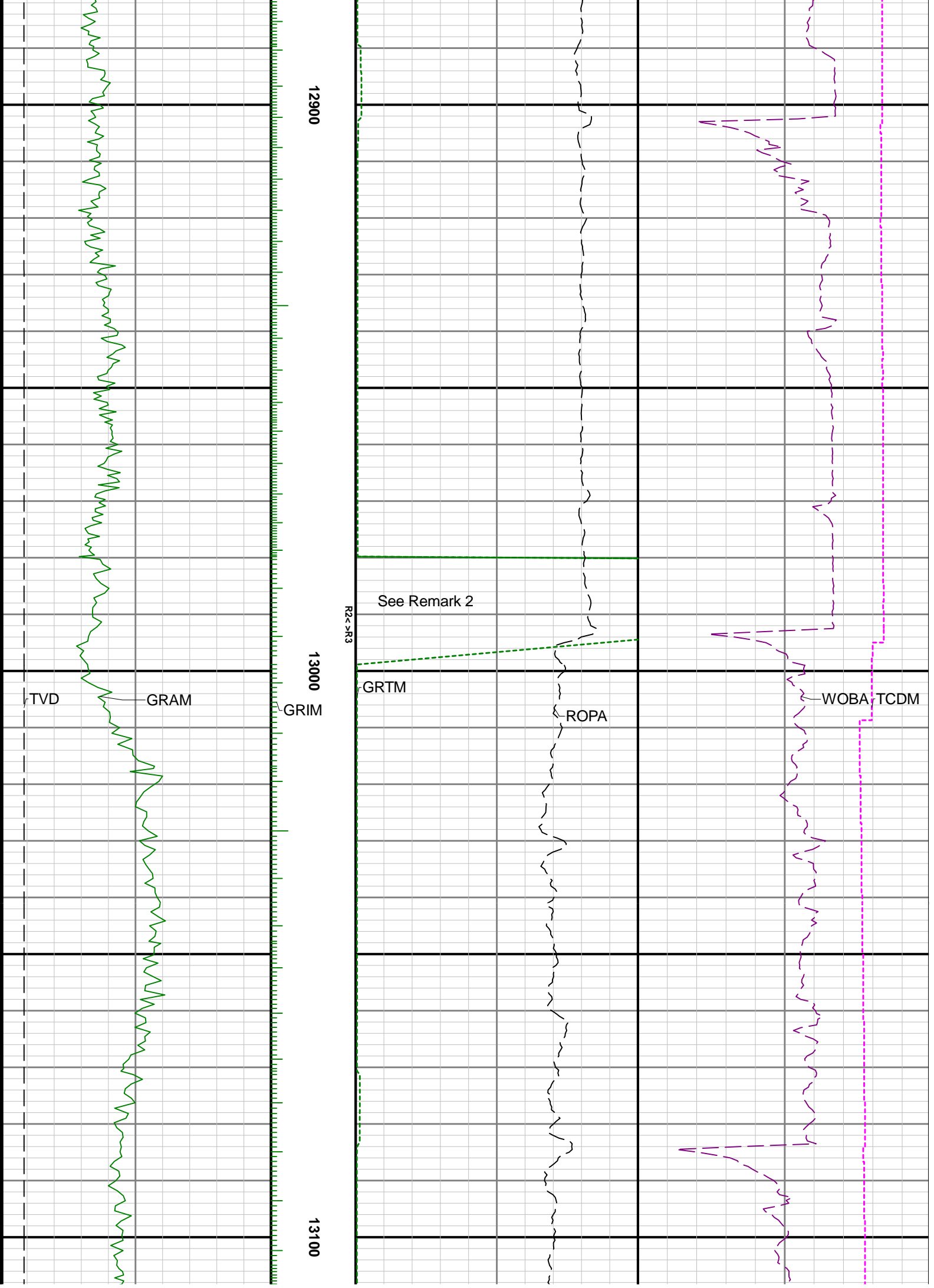


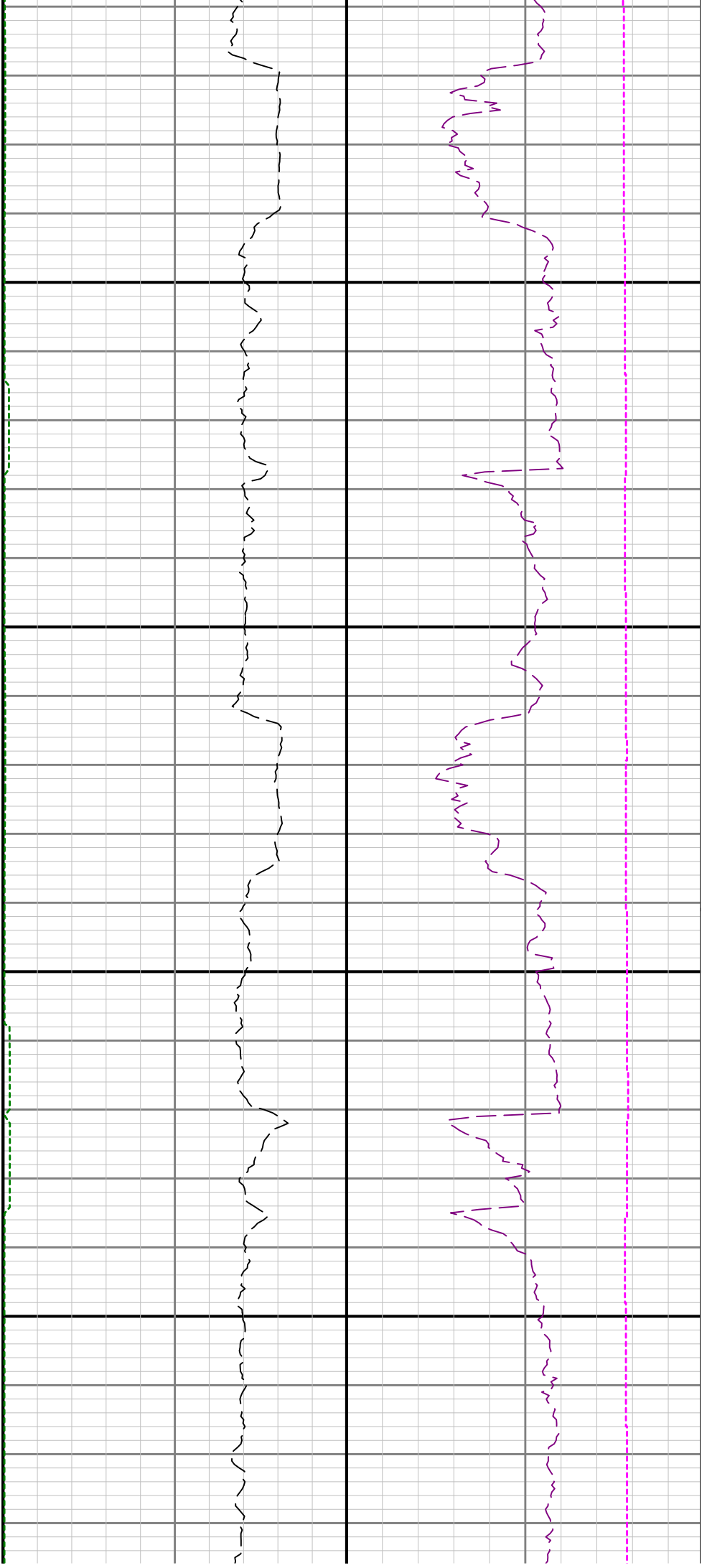


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12800

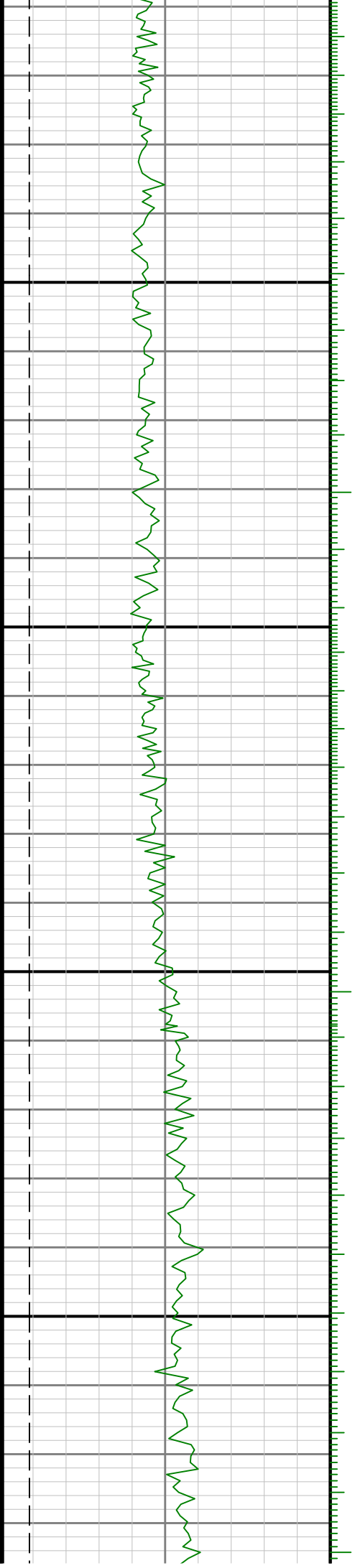


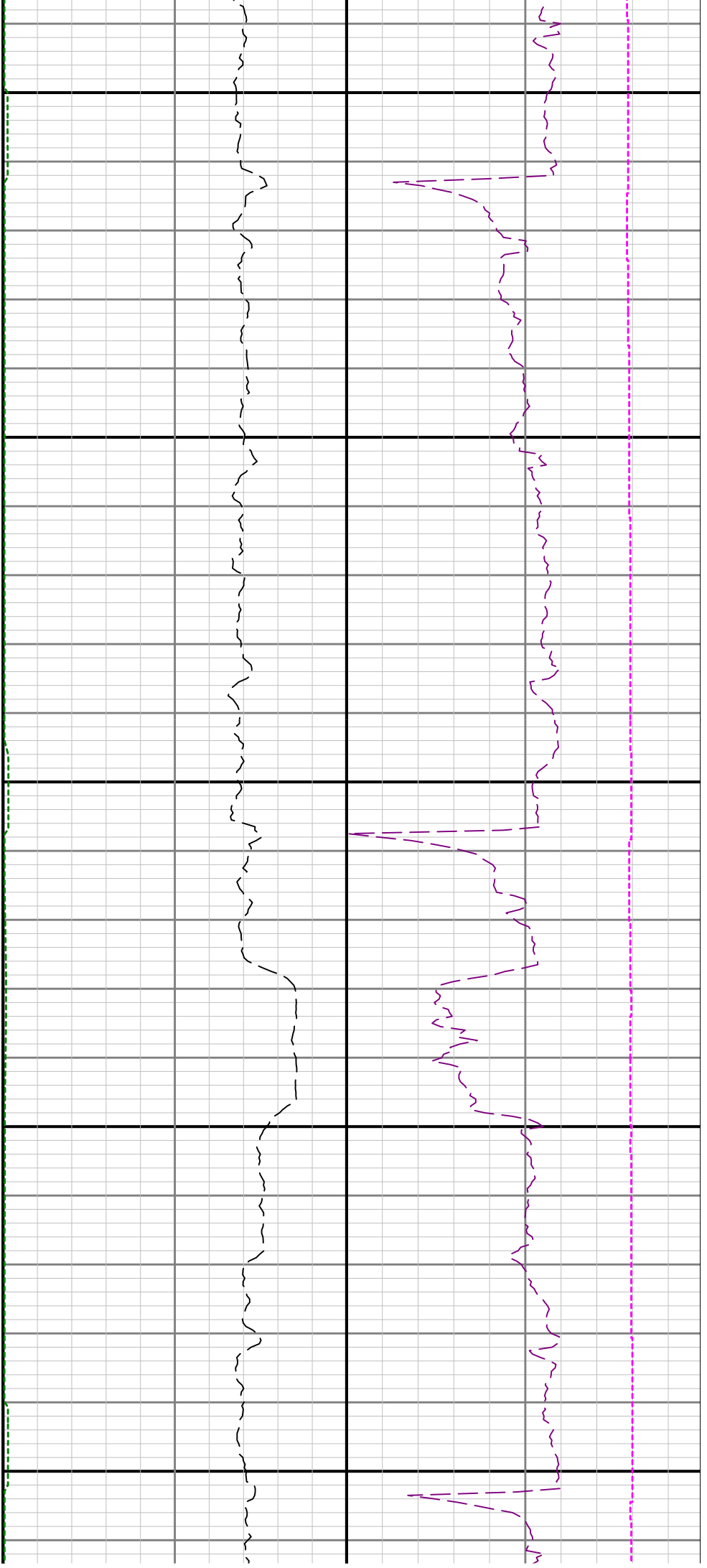




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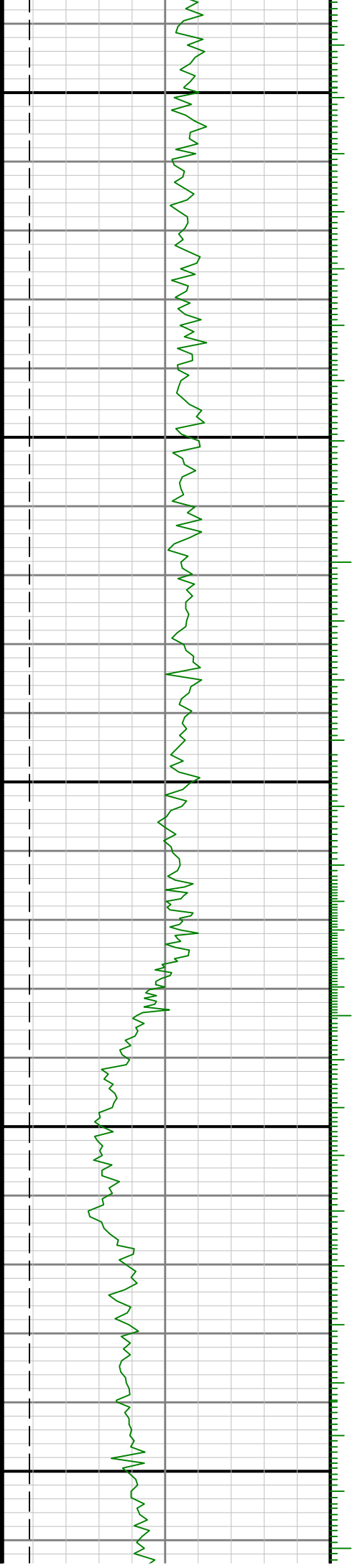
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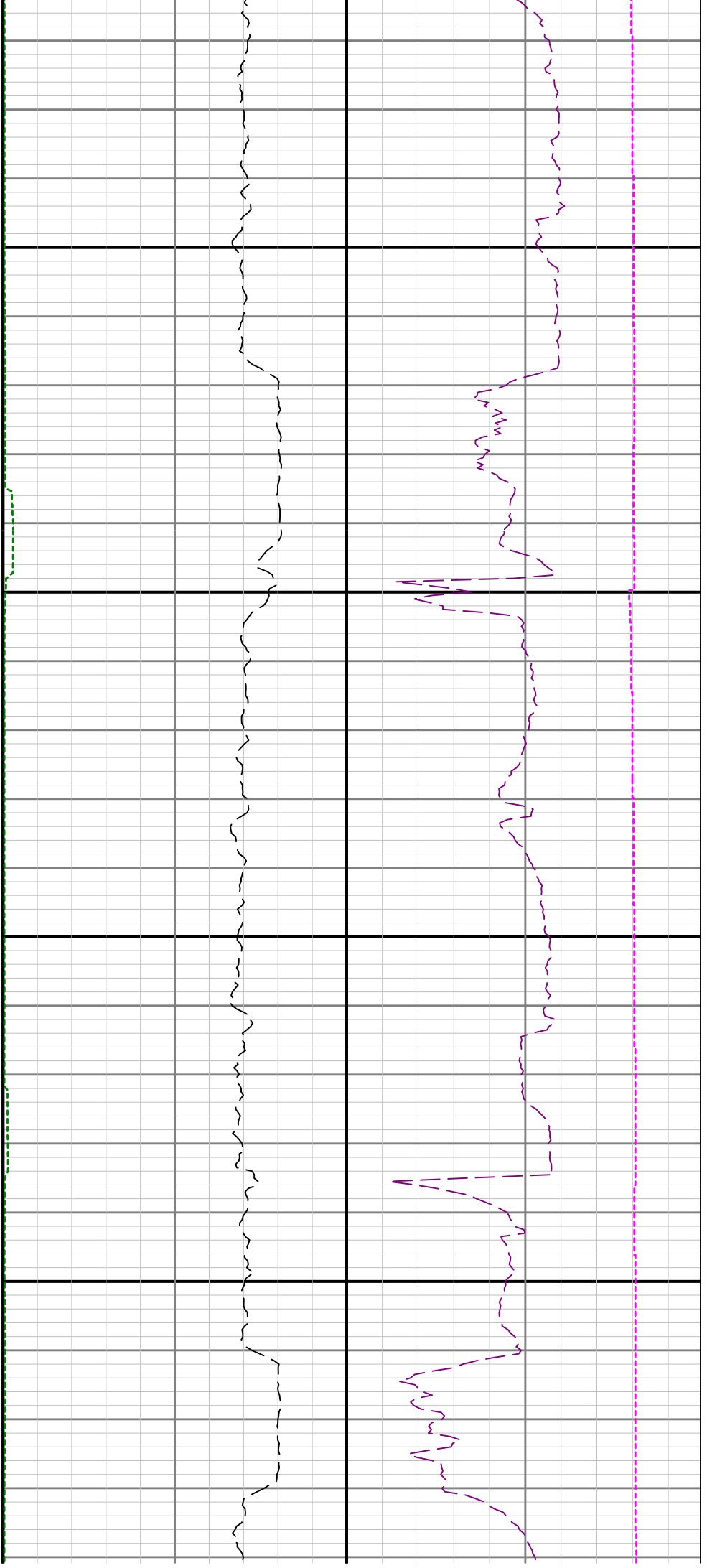




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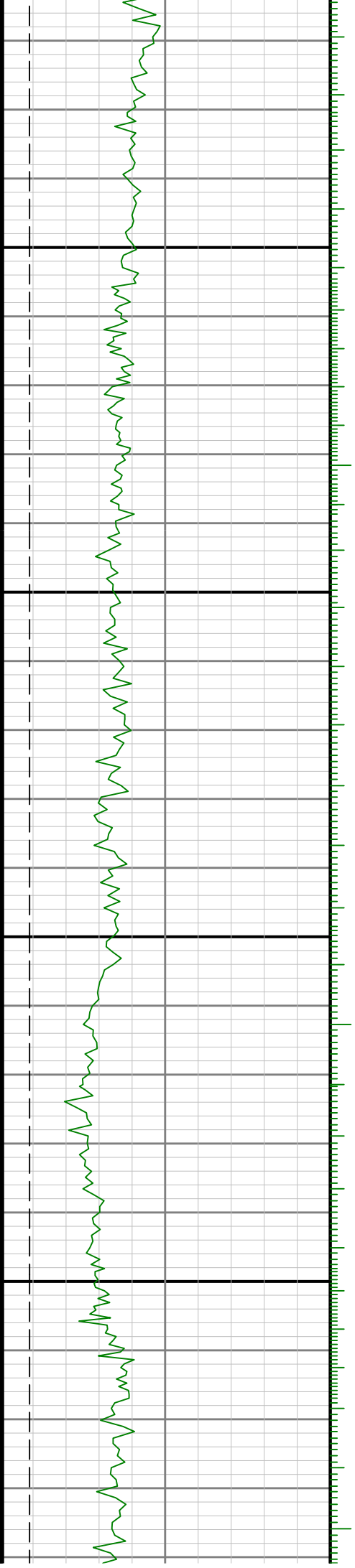
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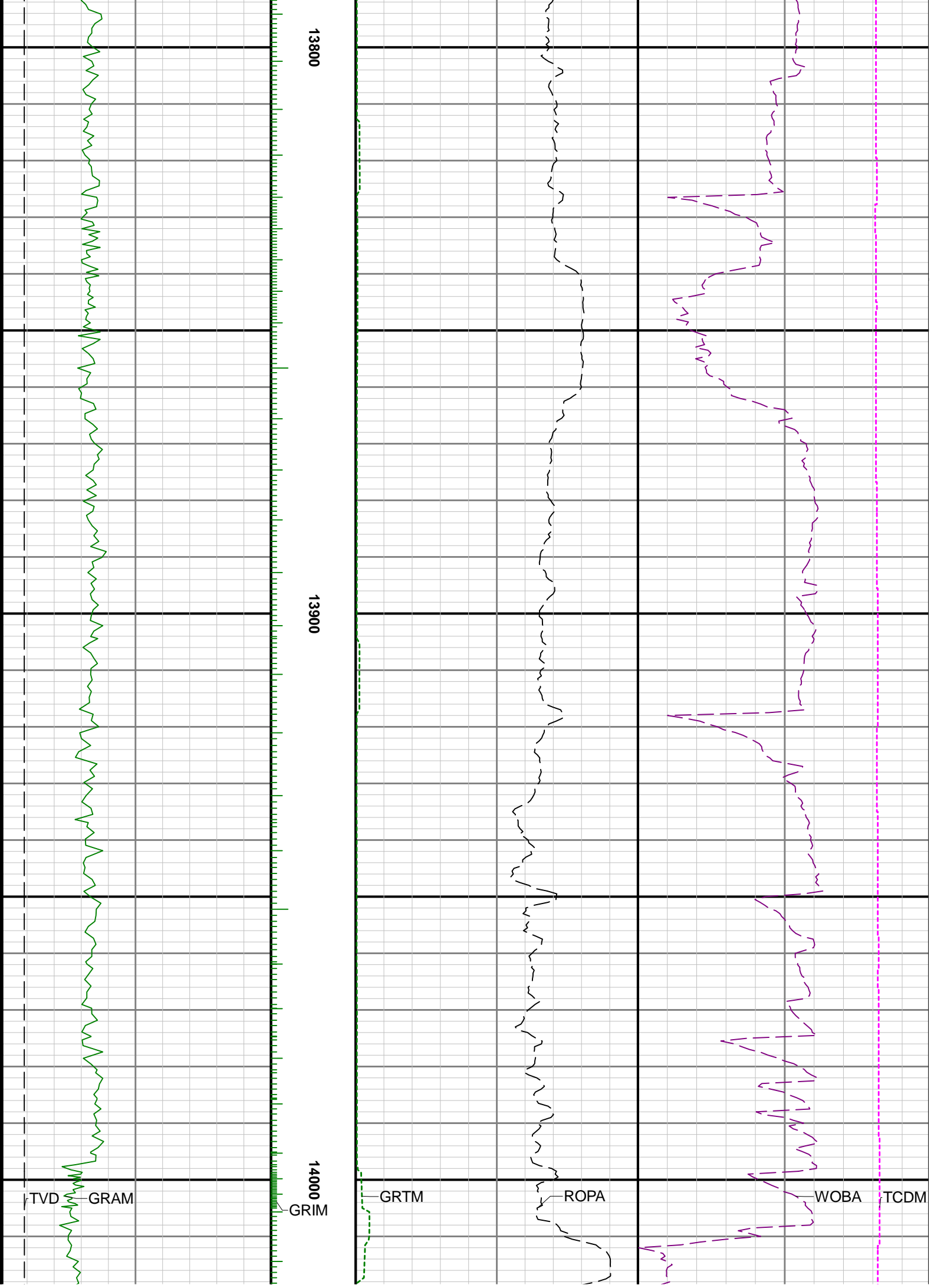


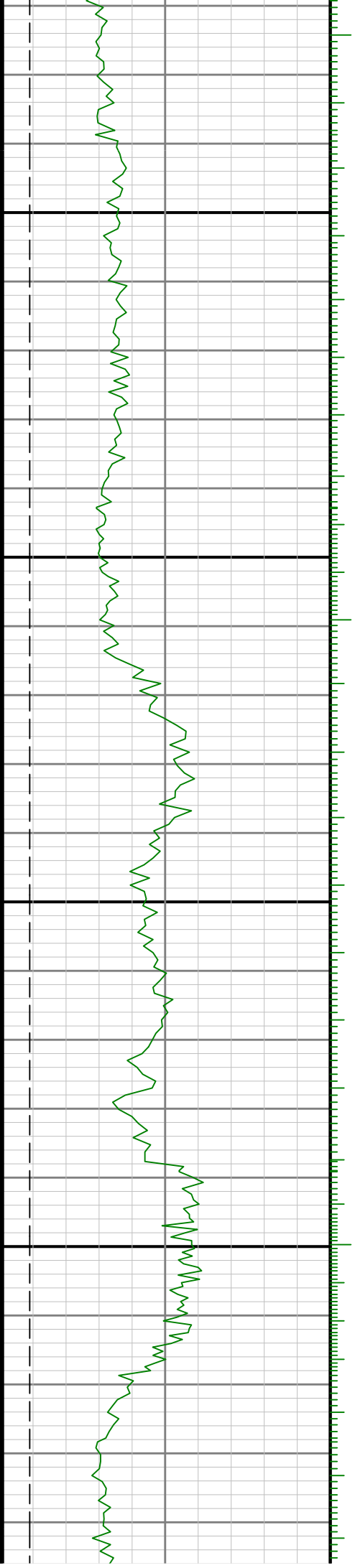
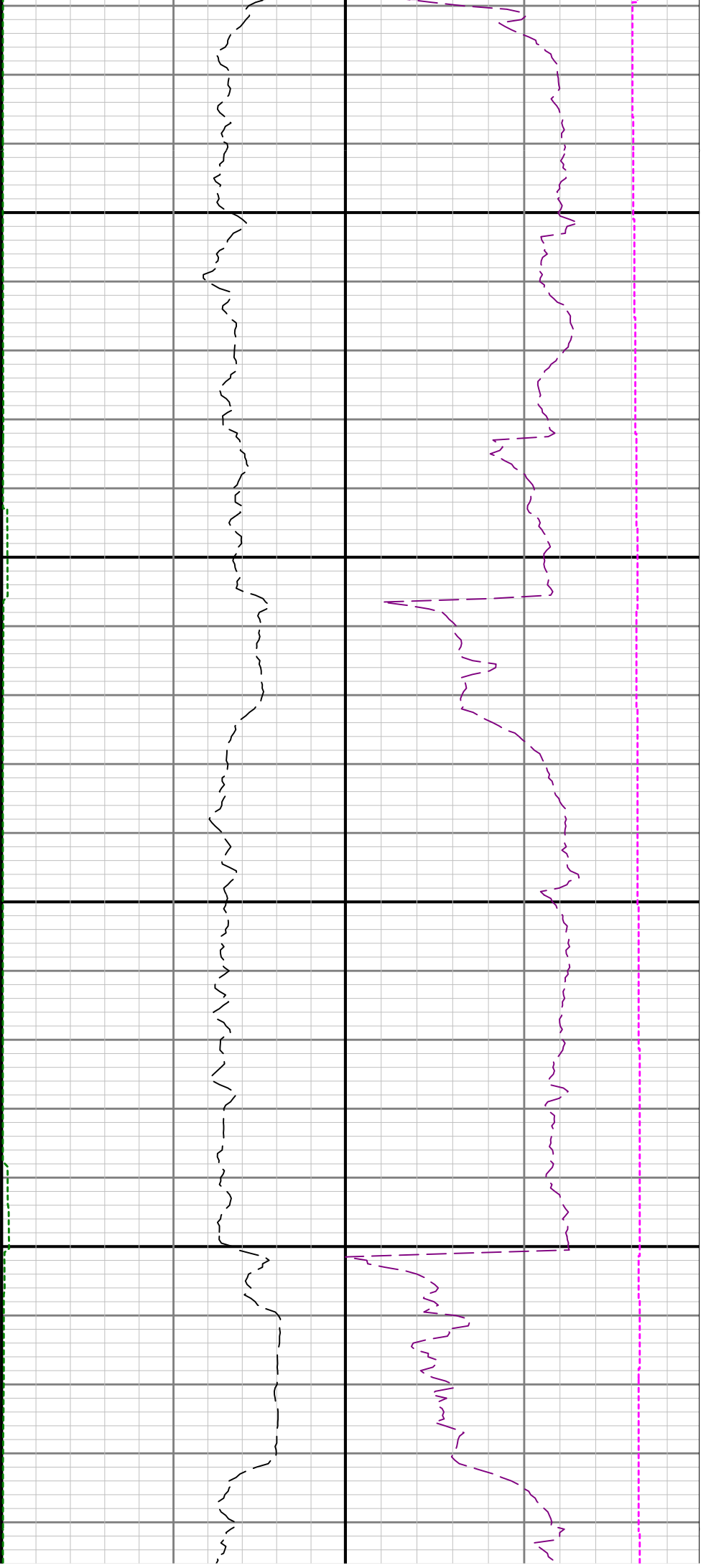


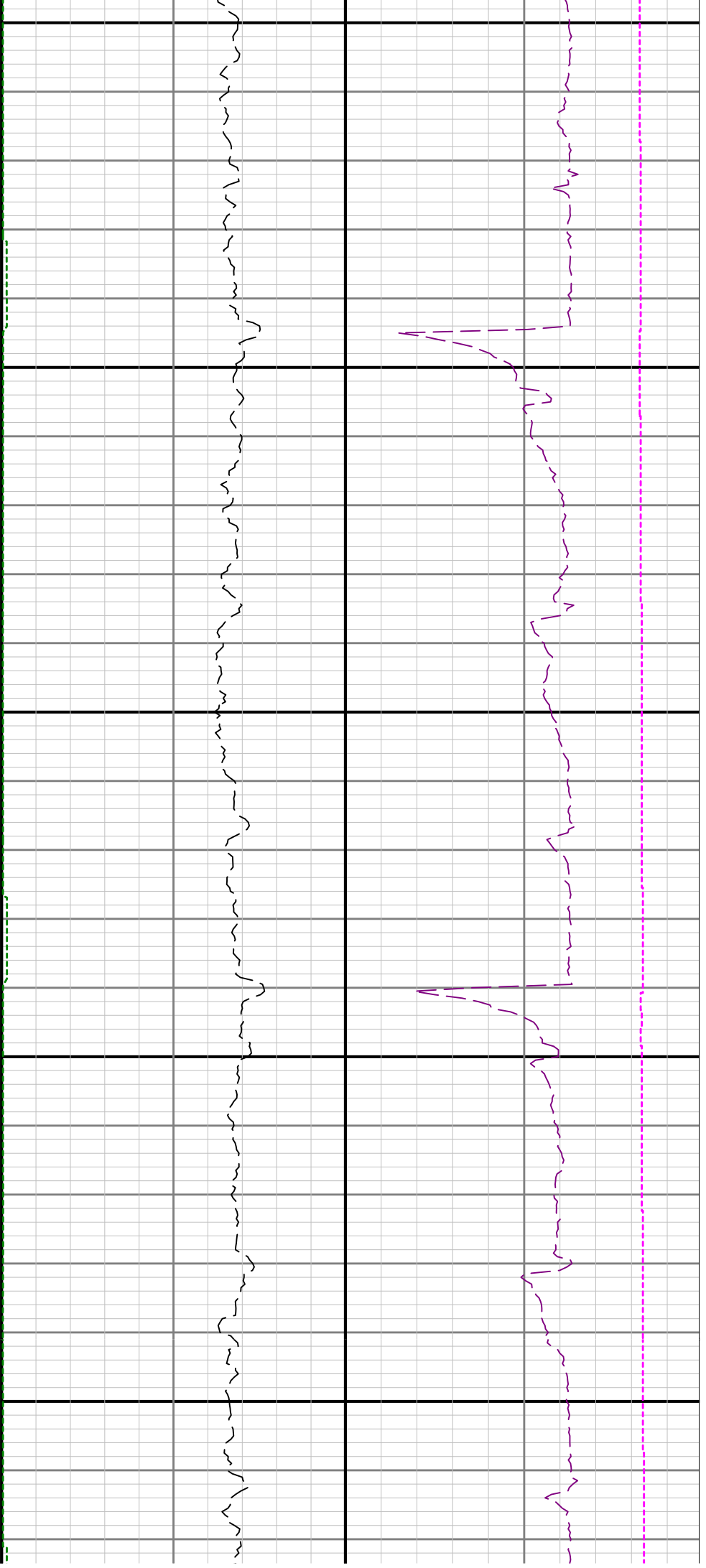
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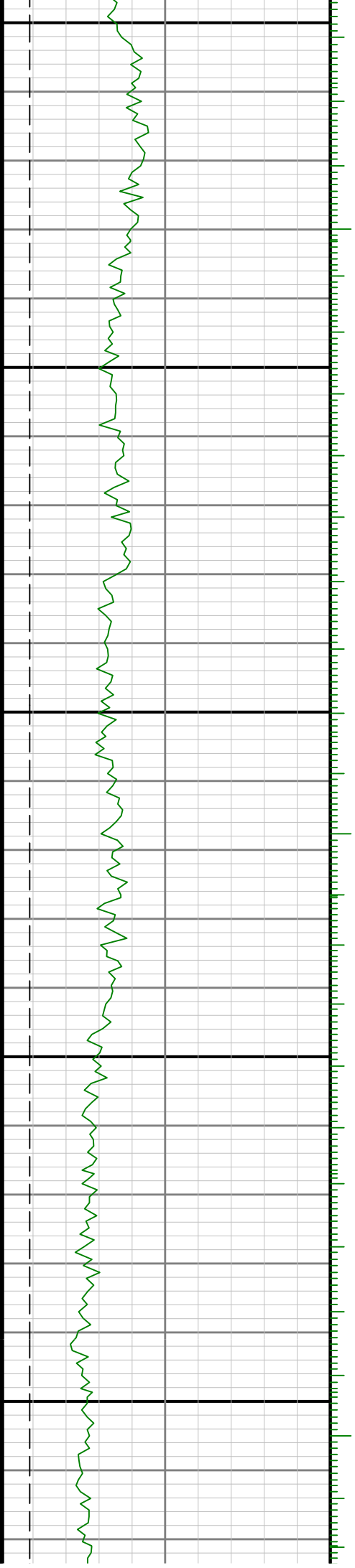


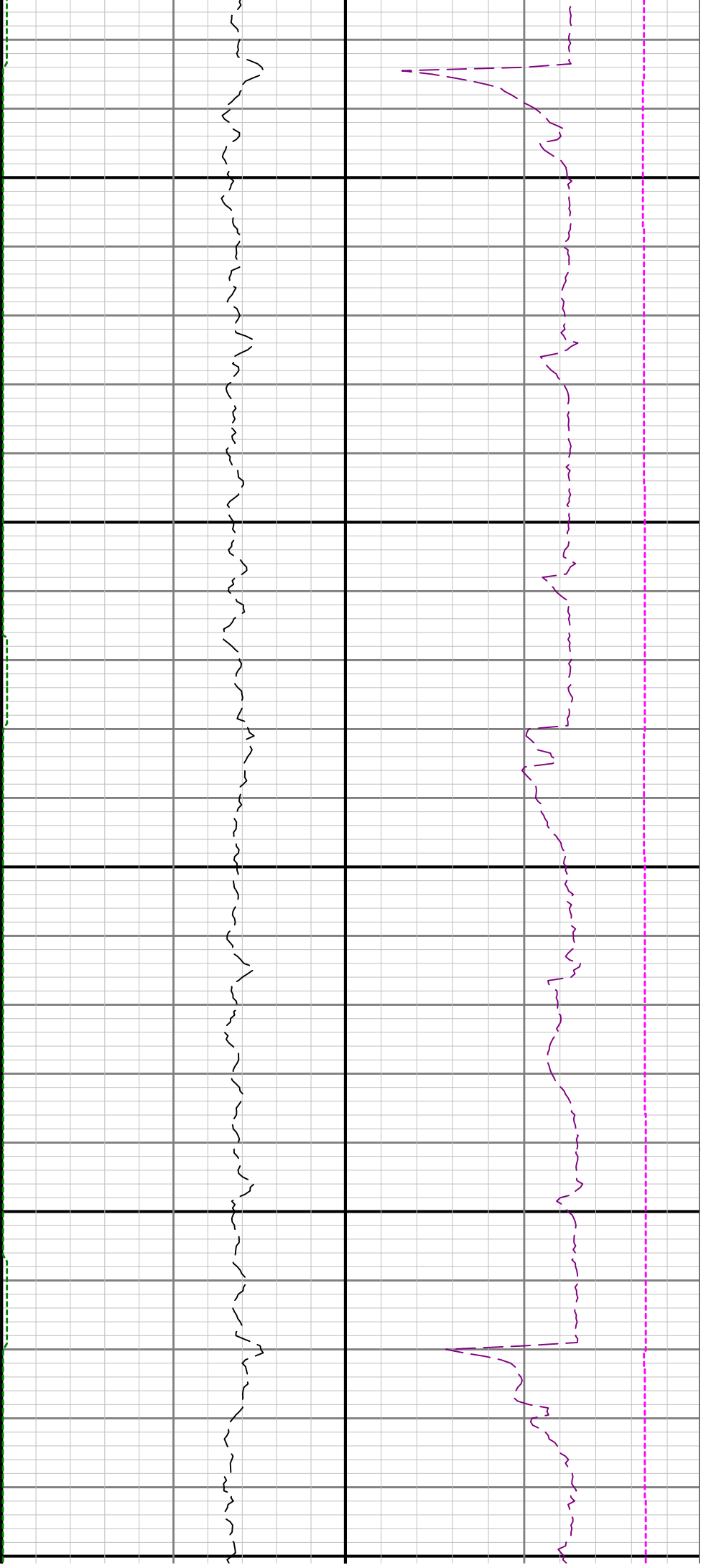




14300

14400





14500

14600

14700

