



	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
John Moisan	2018-04-28	2018-05-01						

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+ (%)
2018-04-28 16:00	2	2421.00	Diesel-Oil Based Mud	9.7	22	N/A	4.4	83/17	Active Pit	31000	0.00
2018-04-29 04:00	2	6152.00	Diesel-Oil Based Mud	9.3	19	N/A	5.1	84/16	Active Pit	28000	0.00
2018-04-29 16:00	2	8299.00	Diesel-Oil Based Mud	9.6	24	N/A	4.4	84/16	Active Pit	30000	0.00
2018-04-30 04:00	2	11010.00	Diesel-Oil Based Mud	9.7	24	N/A	3.8	85/15	Active Pit	28000	0.00
2018-04-30 16:00	2	13425.00	Diesel-Oil Based Mud	9.7	23	N/A	4.4	85/15	Active Pit	28000	0.00
2018-05-01 04:00	2	15103.00	Diesel-Oil Based Mud	9.8	21	N/A	4.5	86/14	Active Pit	27000	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	Directional (mag)	12.17	61.94	8.000	3.250
1	Sensor Sub	ZAPS230949	VSS	12.17	61.94	8.000	3.250
1	Sensor Sub	ZAPS230949	Pressure	32.77	82.54	8.000	3.250
2	ATC_SU	14169950	Near Bit VSS	5.93	6.73	7.000	4.330
2	ATC_SU	14169950	Near Bit Inclination	5.93	6.73	7.000	4.330
2	ATC_MWD	12304604	Gamma (single)	2.75	12.90	7.000	3.250
2	ATC_MWD	12304604	Directional (mag)	12.27	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	04/28/18 16:00 to 04/29/18 04:00 (2421 to 6152 feet MD (1817 to 15101 feet MD (1817 to 7232 feet TVD)). No logging data was acquired during this run.
3	04/29/18 04:00 to 04/29/18 16:00 (6152 to 8299 feet MD (1817 to 15101 feet MD (1817 to 7232 feet TVD)).
4	Gamma Ray Apparent (GRAM-GRAUM-GRADM) is presented 0 to 300 API per customer request.

Remarks				
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	1821.00	8.500	2	Baker Hughes logging services began at 1821 feet MD (1817 feet TVD) per customer request.
2	15089.00	8.500	2	The interval from 15089 to 15101 feet MD (7232 feet TVD) was not logged due to sensor to bit offset at well TD.

Curve Mnemonics	
Presented Curves	Description
ROPA	Depth Averaged ROP 3 ft Average
TVD	True Vertical Depth
WOBA	Weight On Bit, Average 1 ft Average

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
GRADM	Gamma Ray - Apparent - Down Quadrant - Memory 0.5 ft Average	API
GRAUM	Gamma Ray - Apparent - Up Quadrant - Memory 0.5 ft Average	API
TCDM	Downhole Temperature	degF



**Company** SRC Energy

**Well** Harvesters State 31C-16-M

**Interval**

**Date From:** 2018-04-28 12:00:00

**Top:** 1821.00

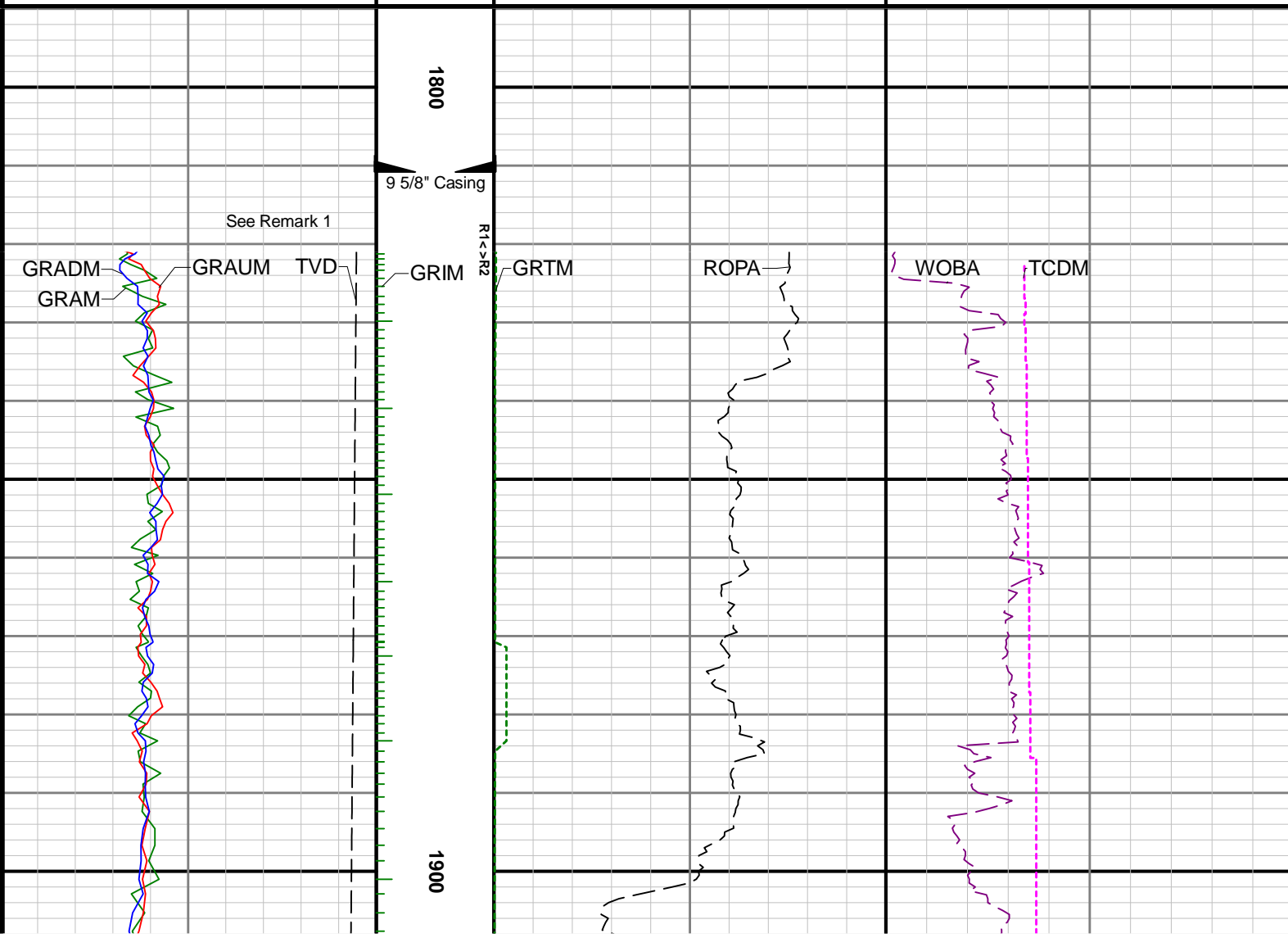
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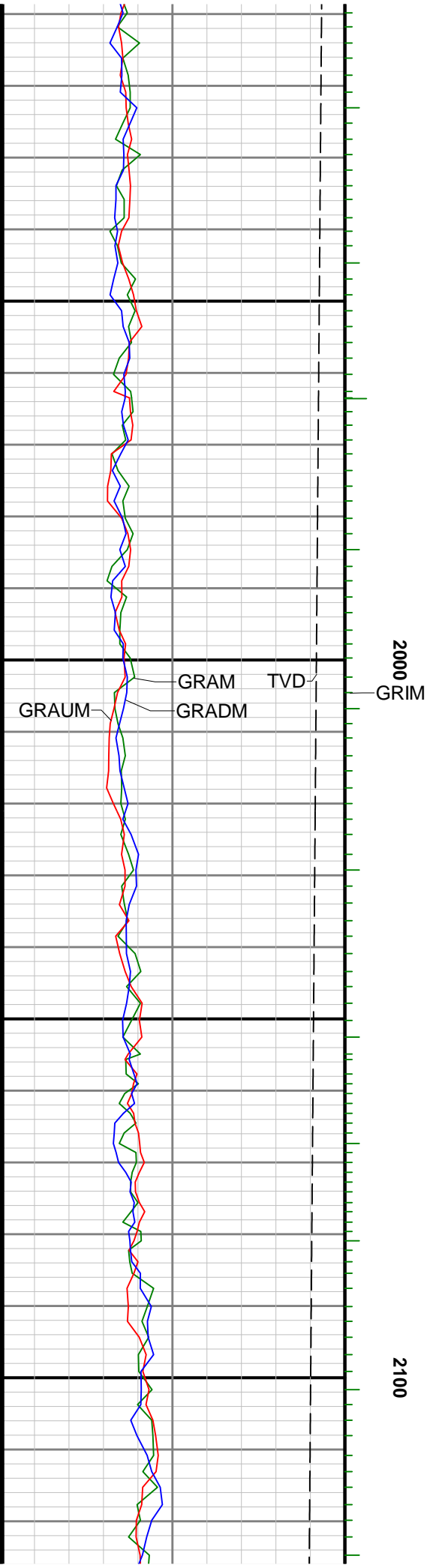
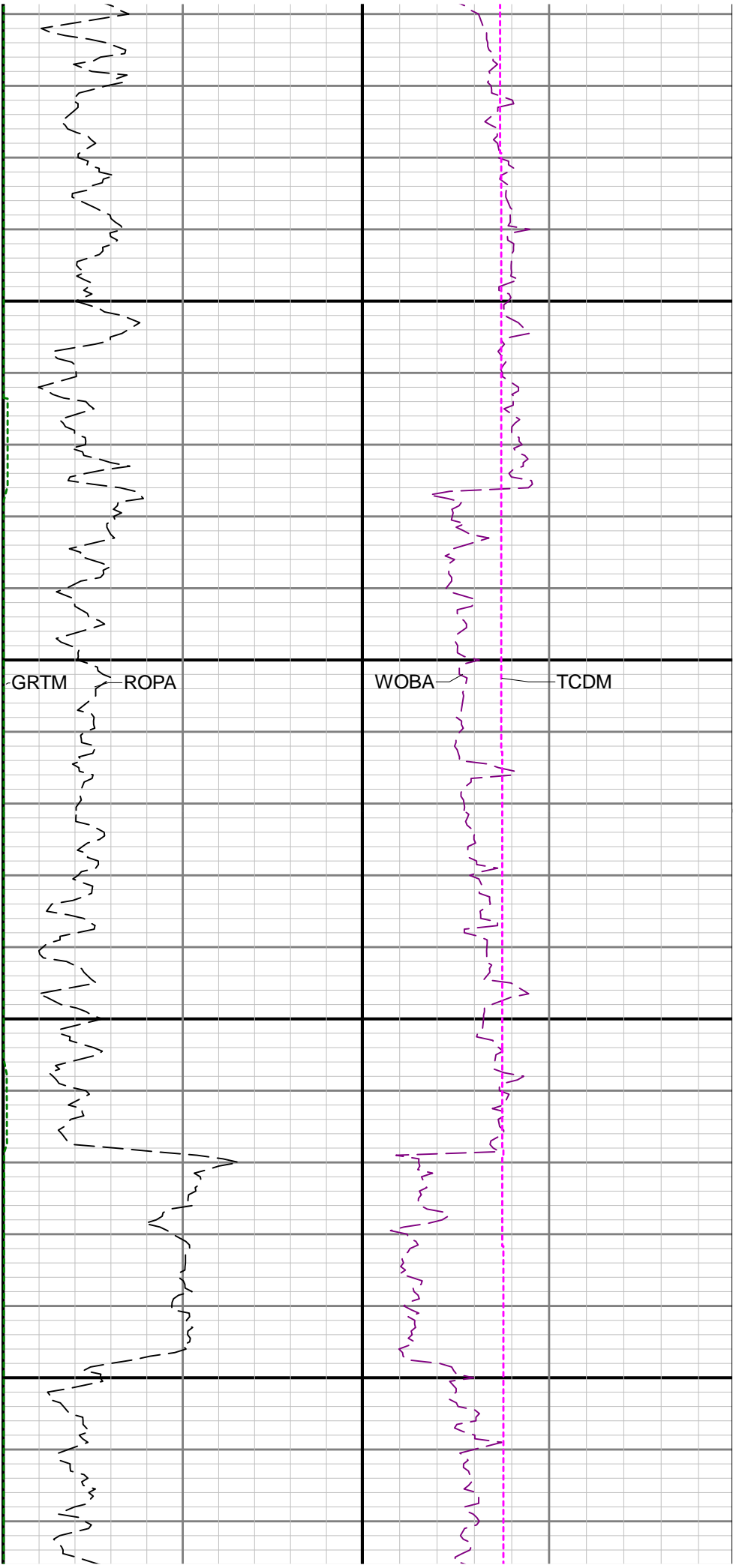
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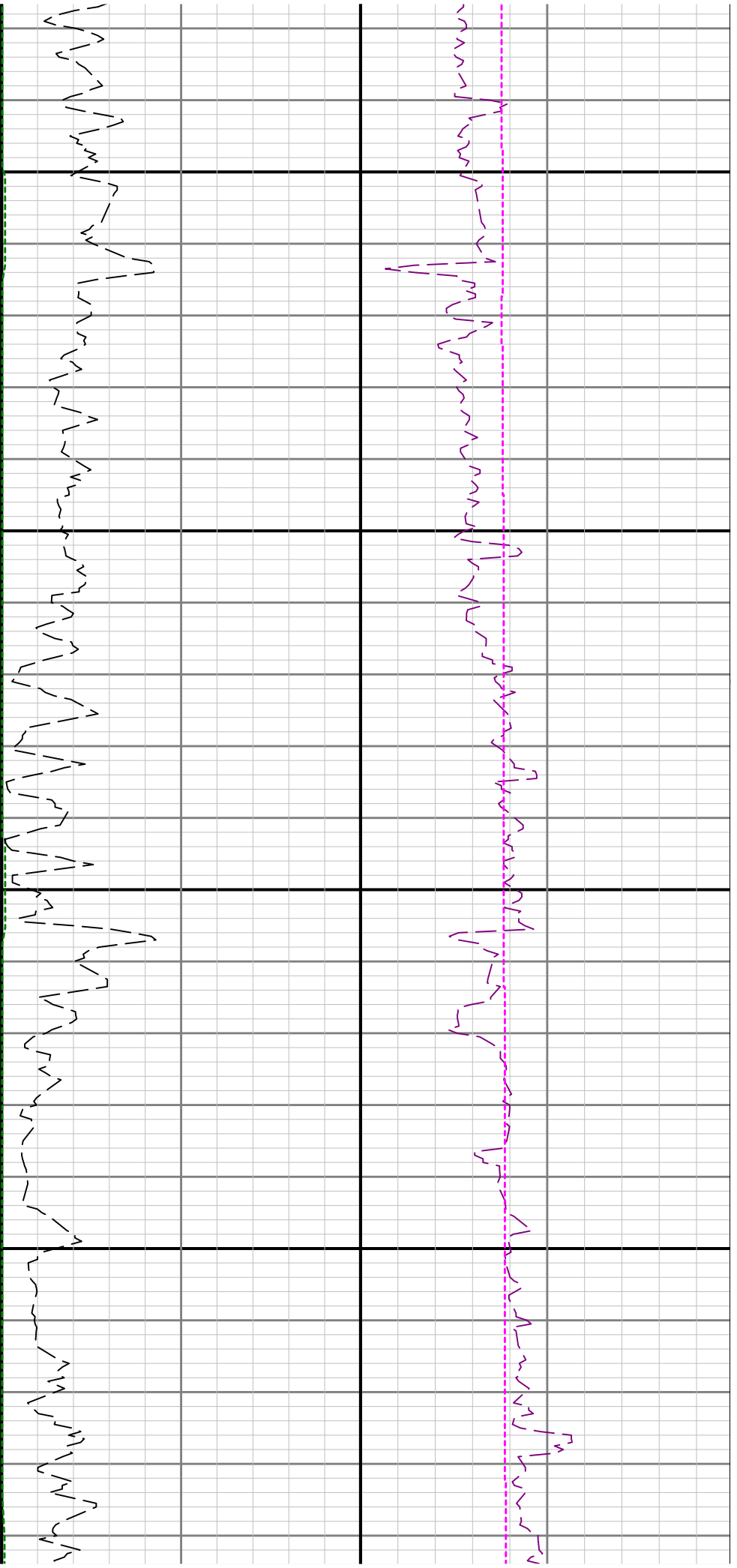
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2018-05-01 19:18:59

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 Azimuthal Gamma Ray - Apparent - Up Quadrant 0.5 ft Average GRAUM 0 300		min Depth Averaged ROP 3 ft Average ROPA 1000 0	klb Downhole Temperature TCDM 0 300
API Azimuthal Gamma Ray - Apparent - Down Quadrant 0.5 ft Average GRADM 0 300		ft/h	degF
API True Vertical Depth TVD 7500 1500 ft			

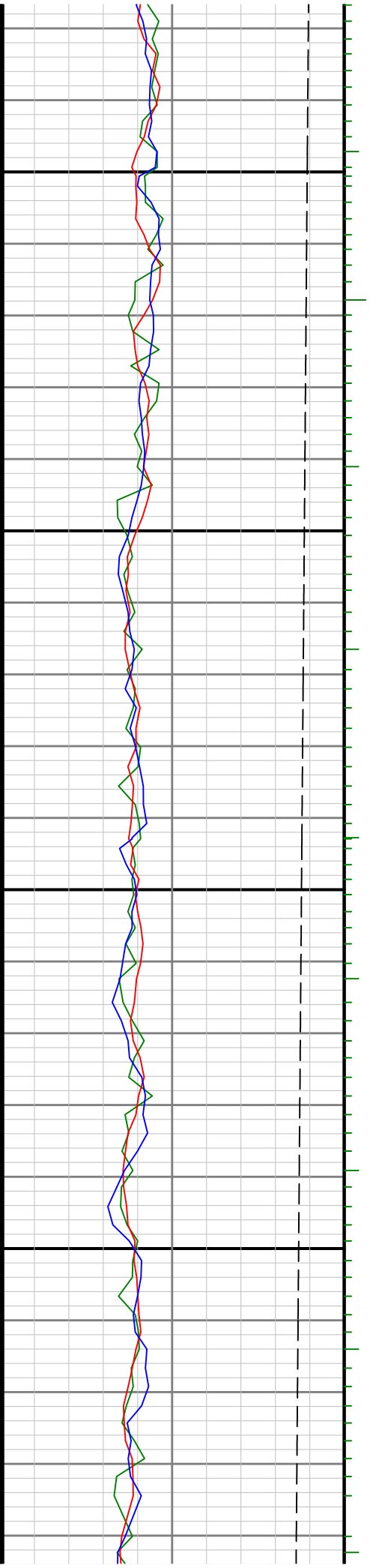


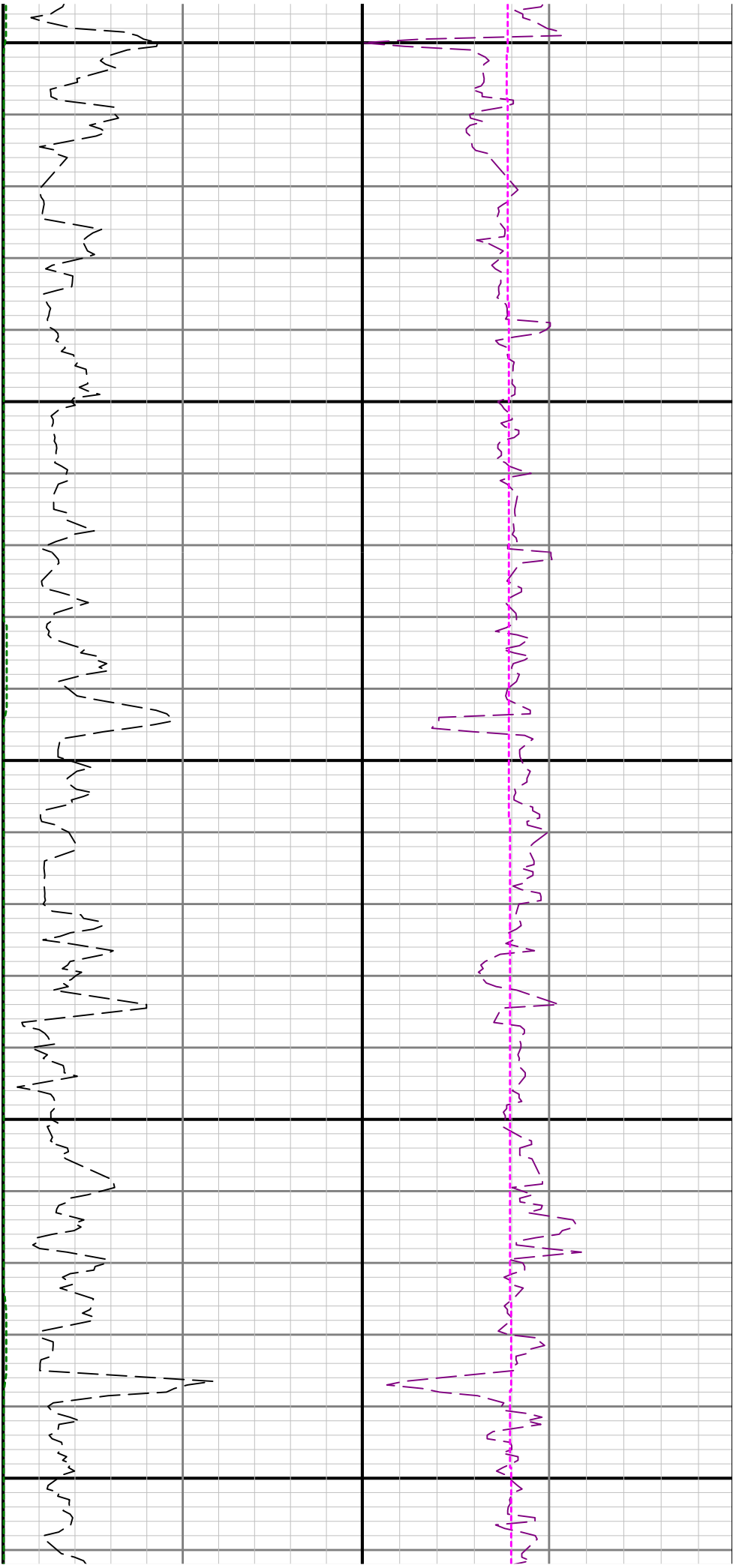




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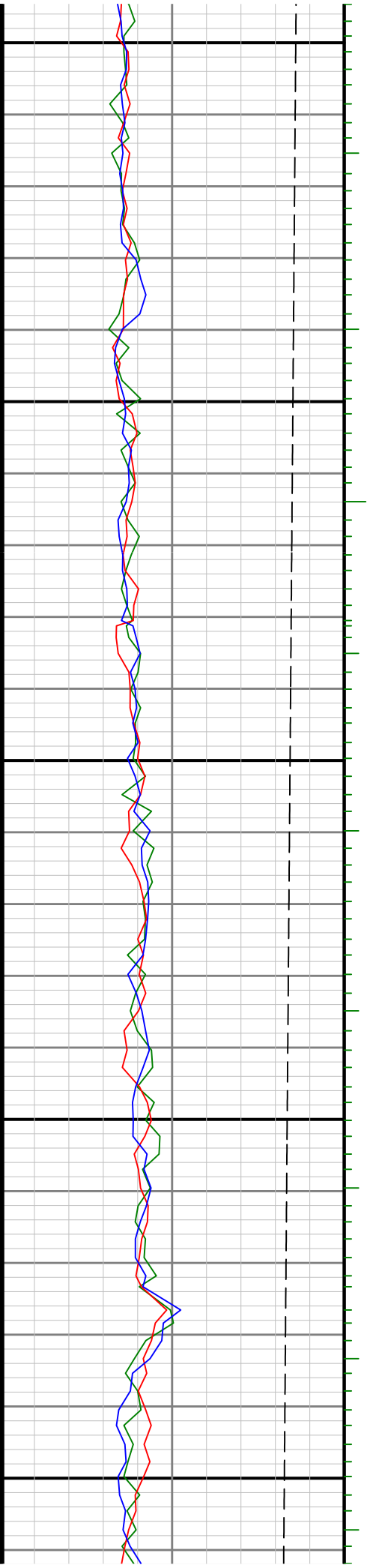
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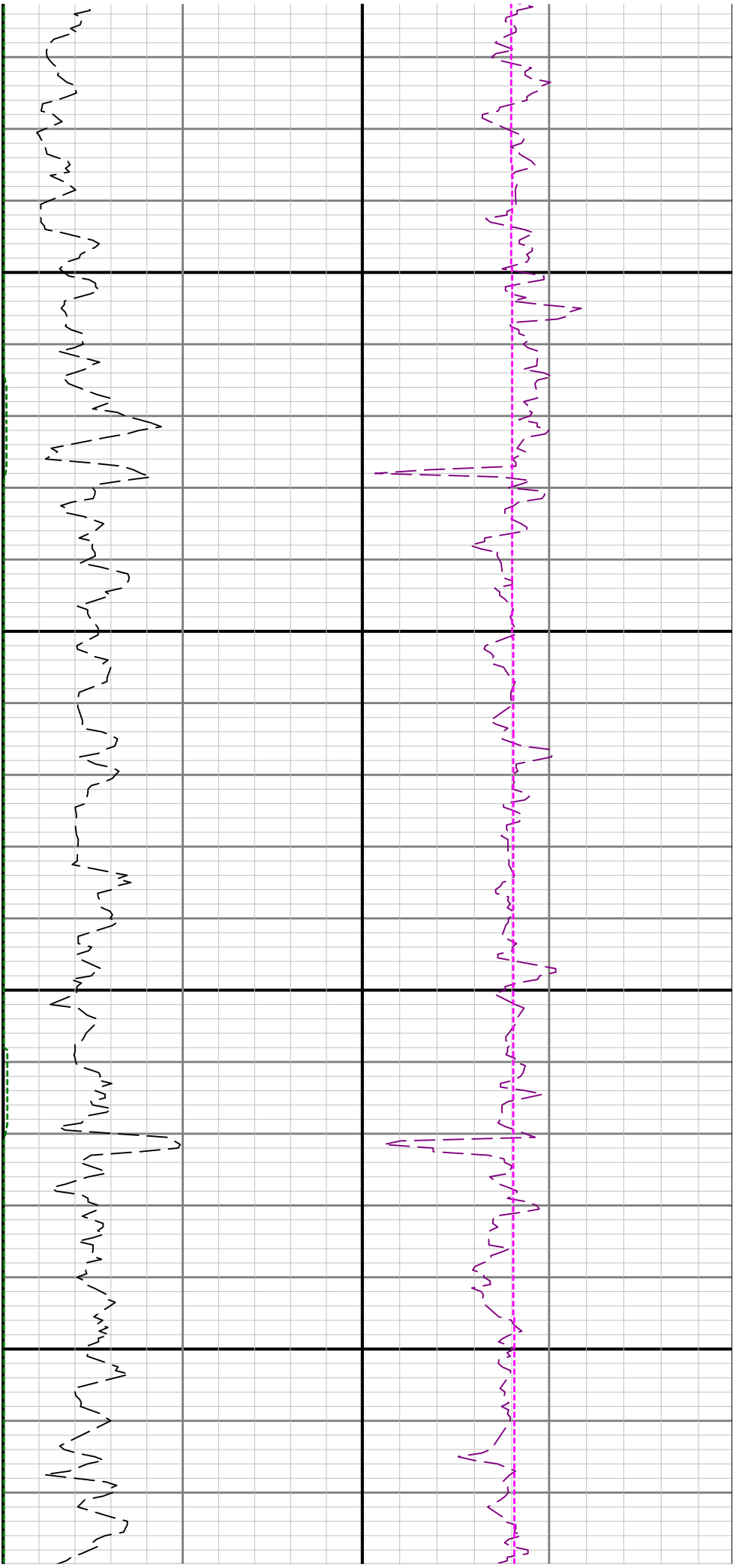




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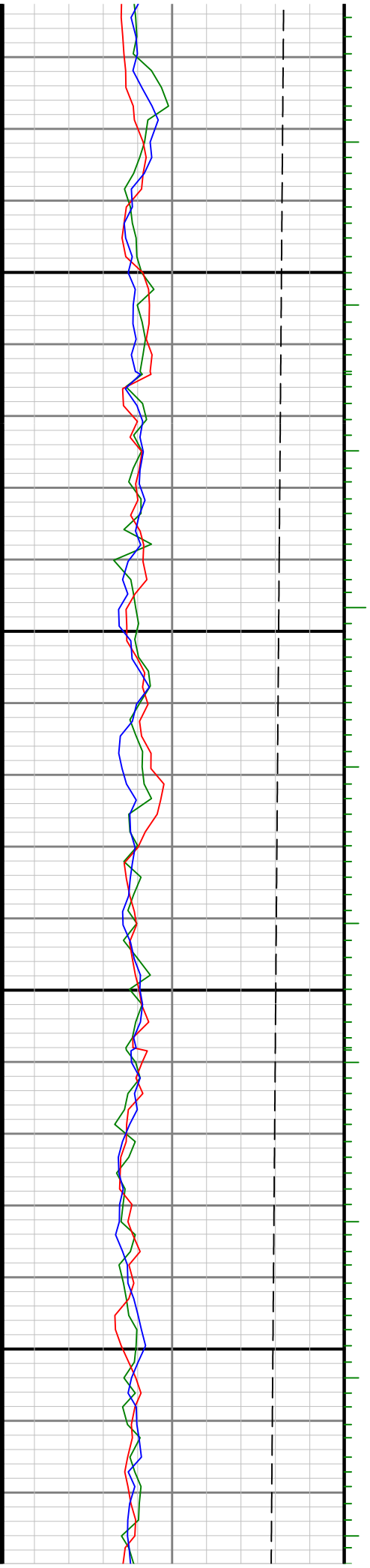
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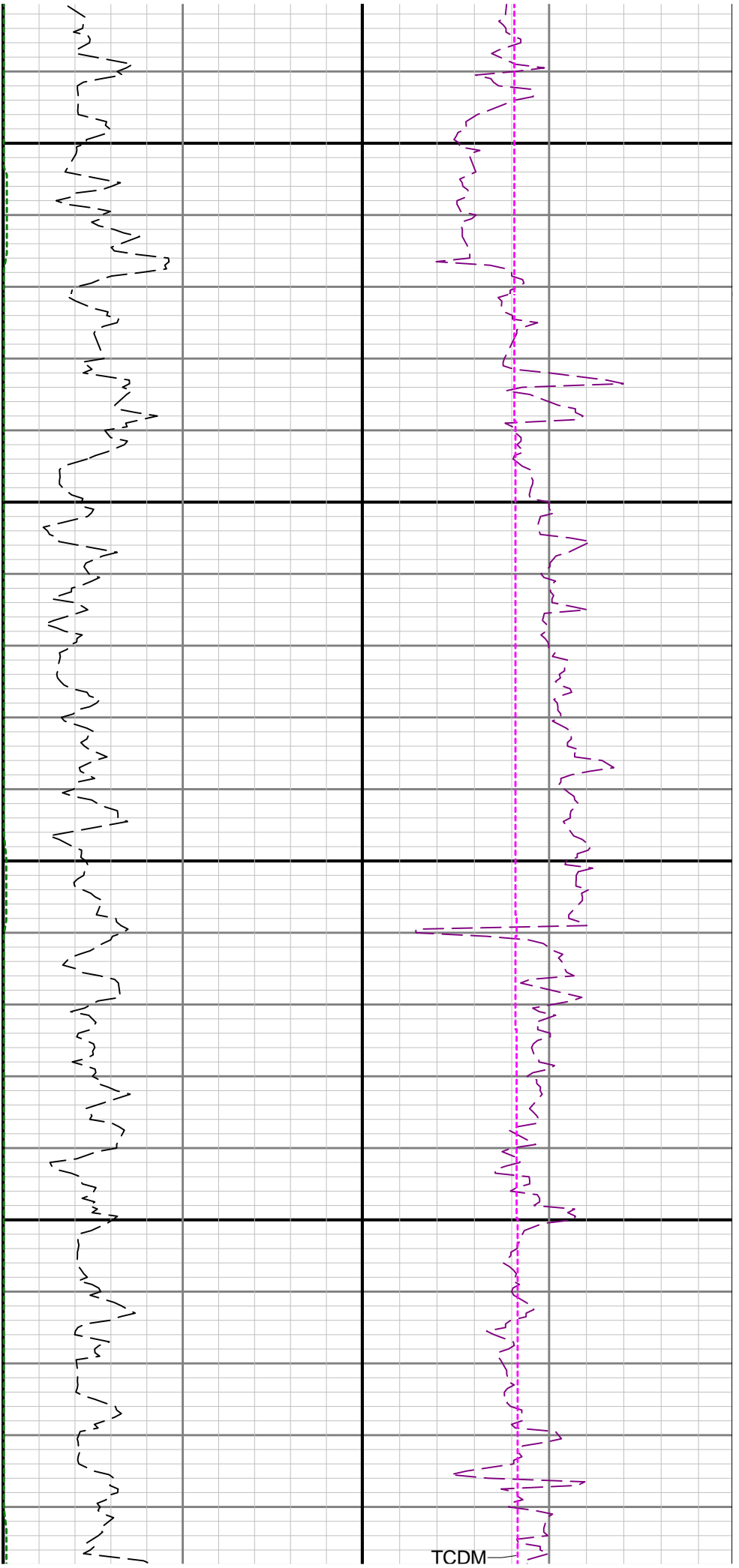




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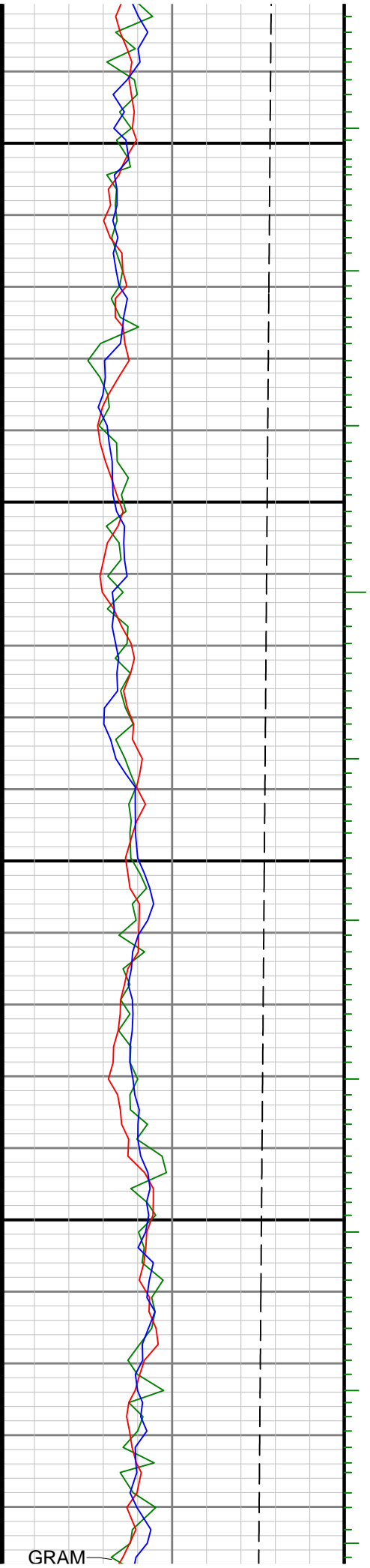




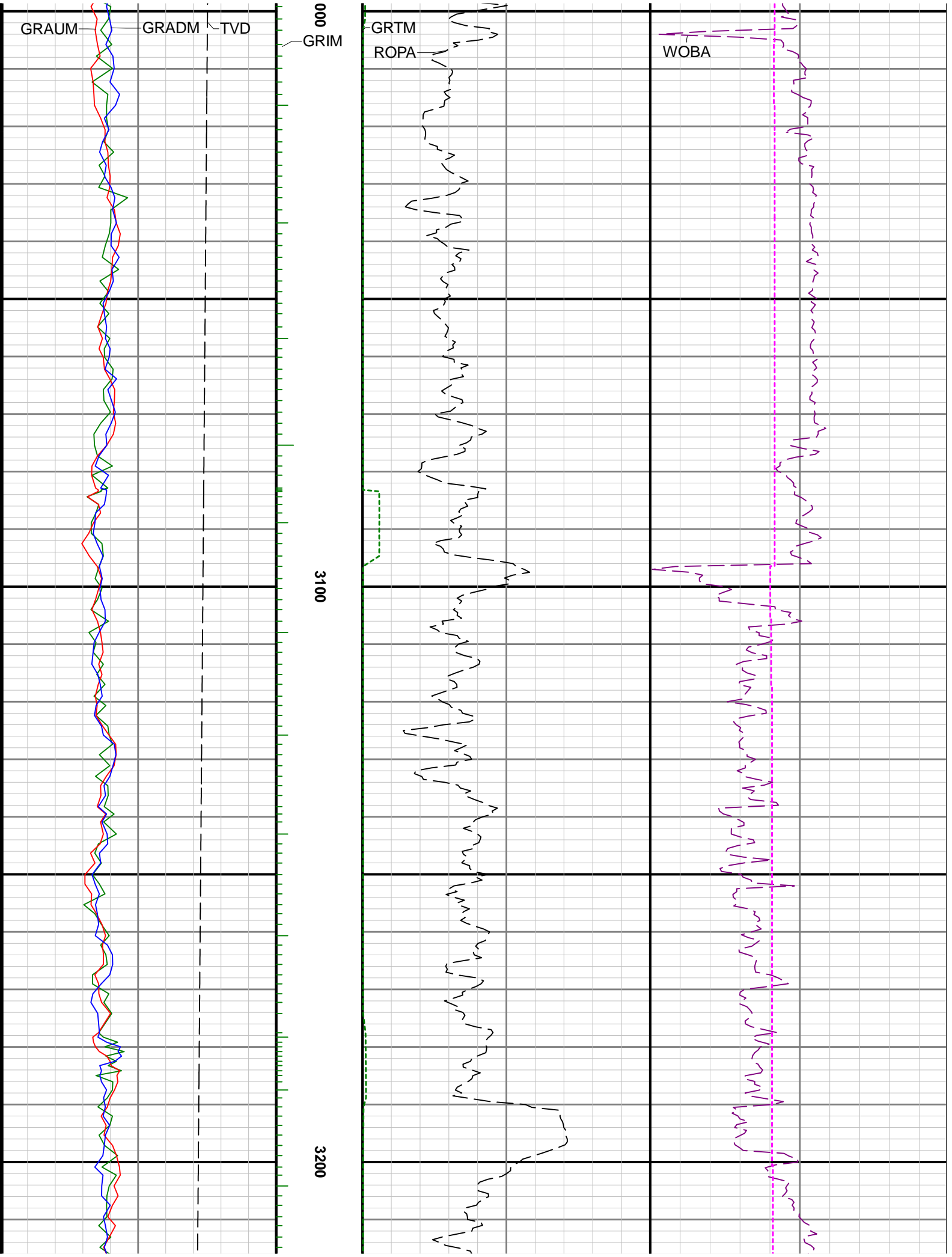
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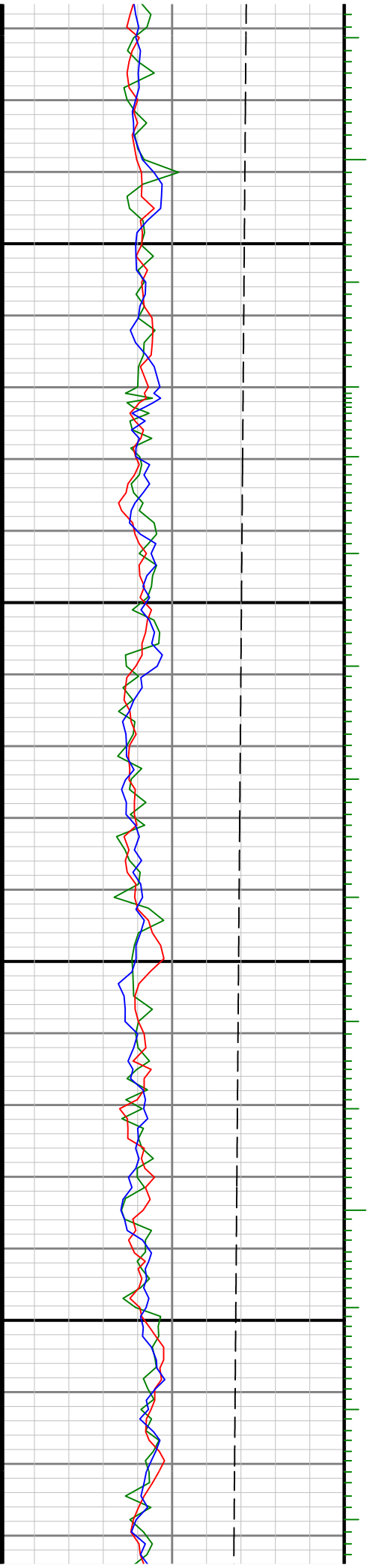
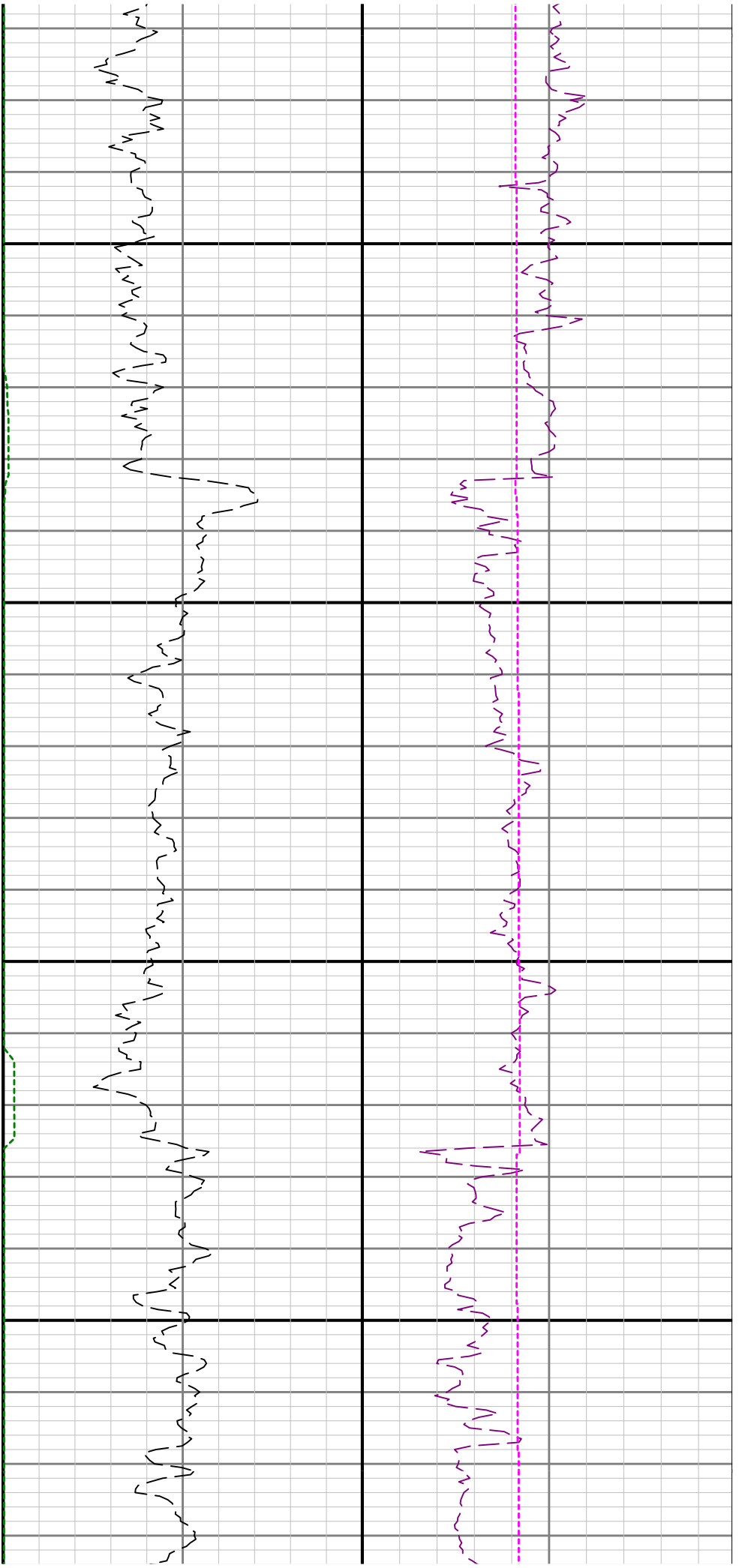
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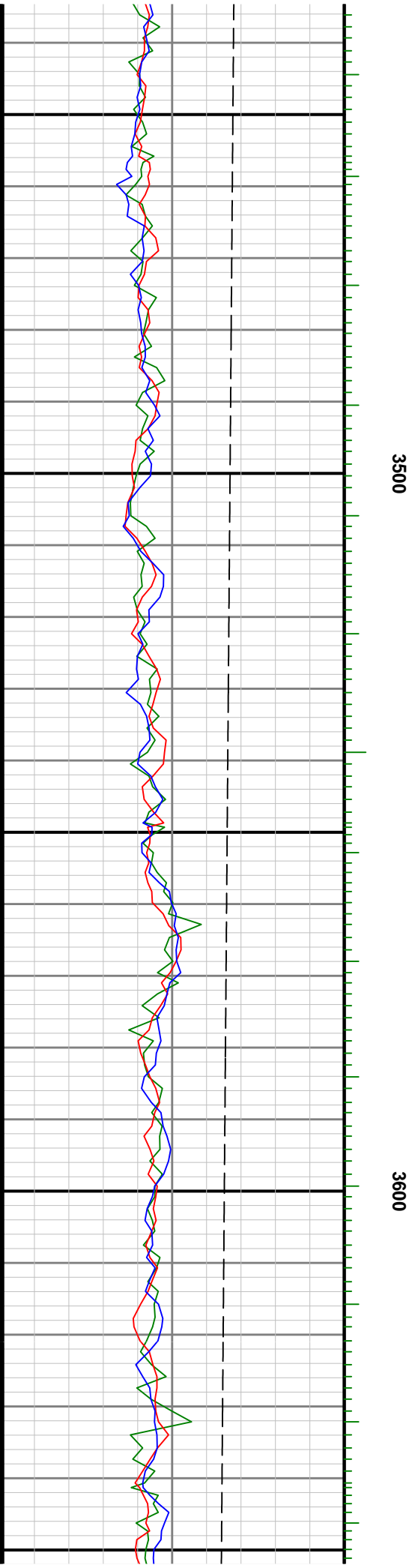
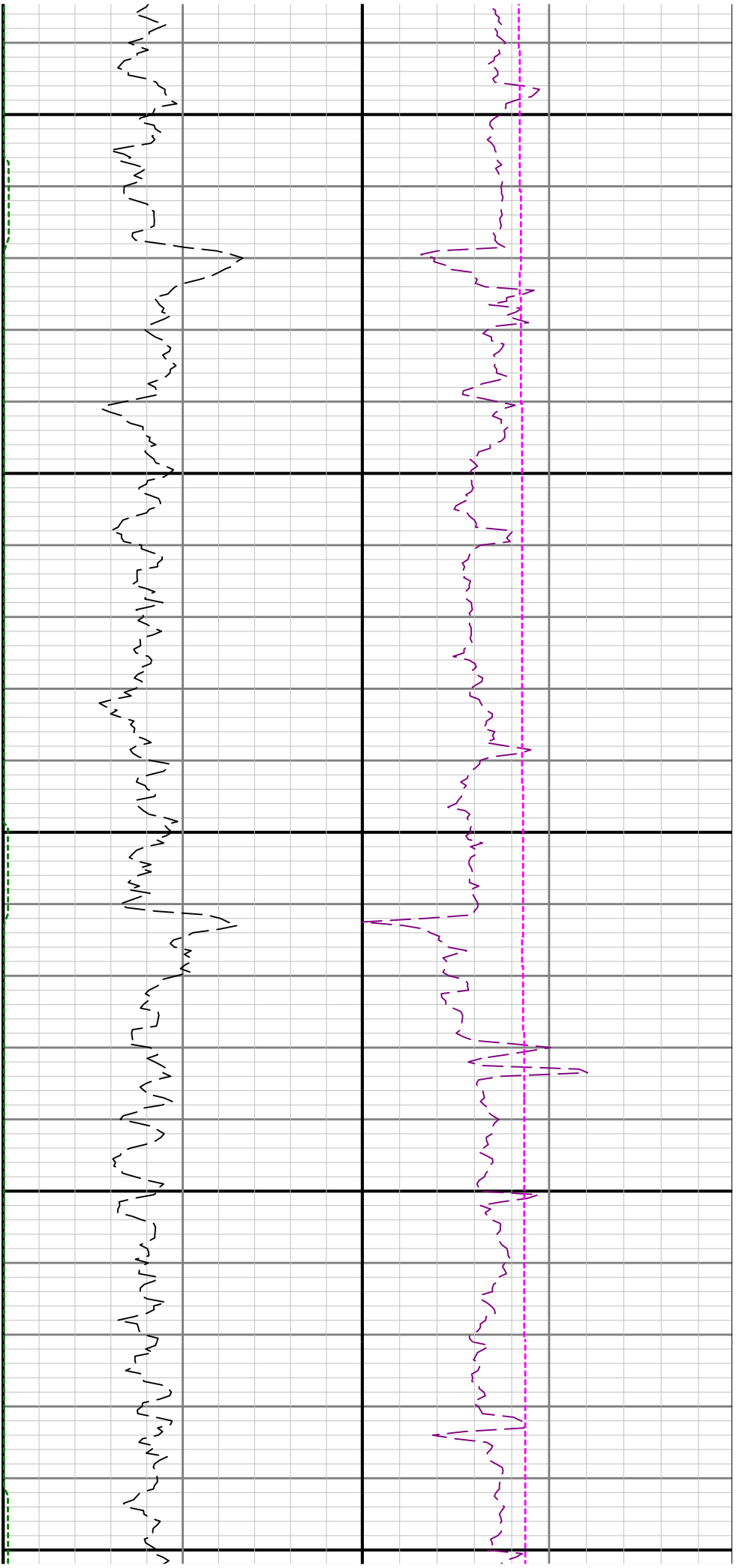
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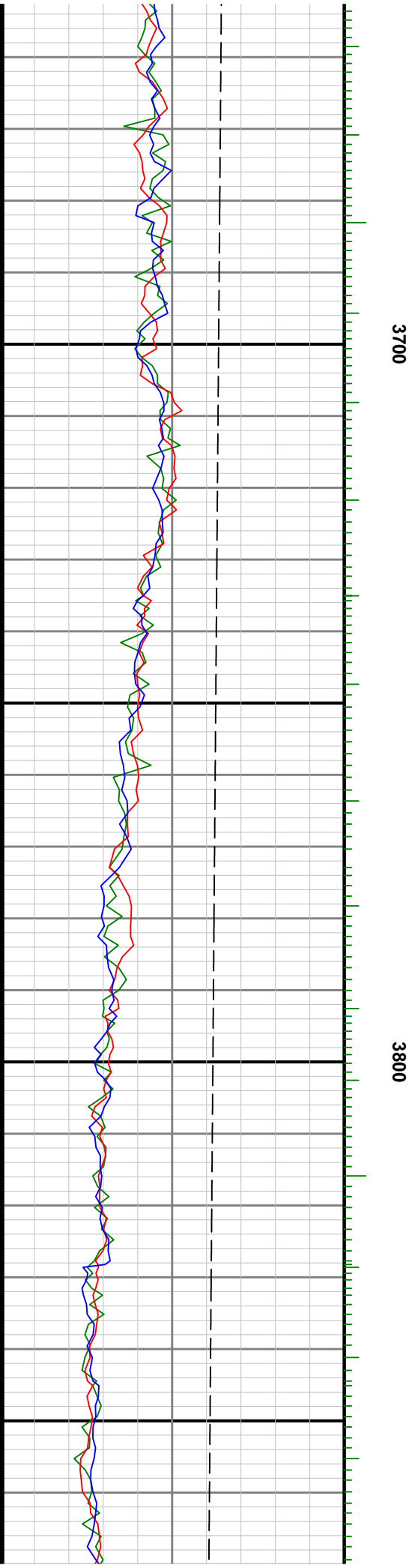
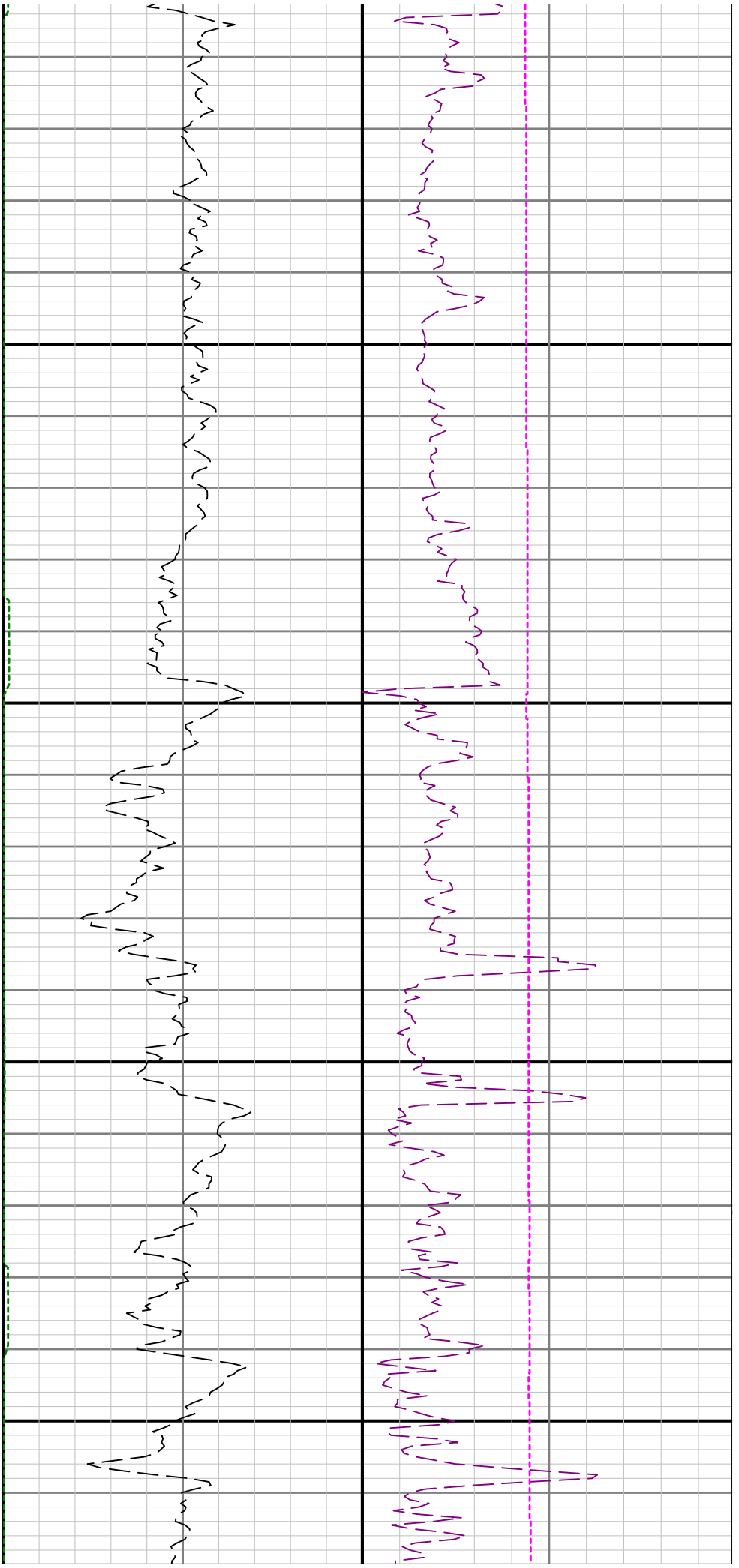


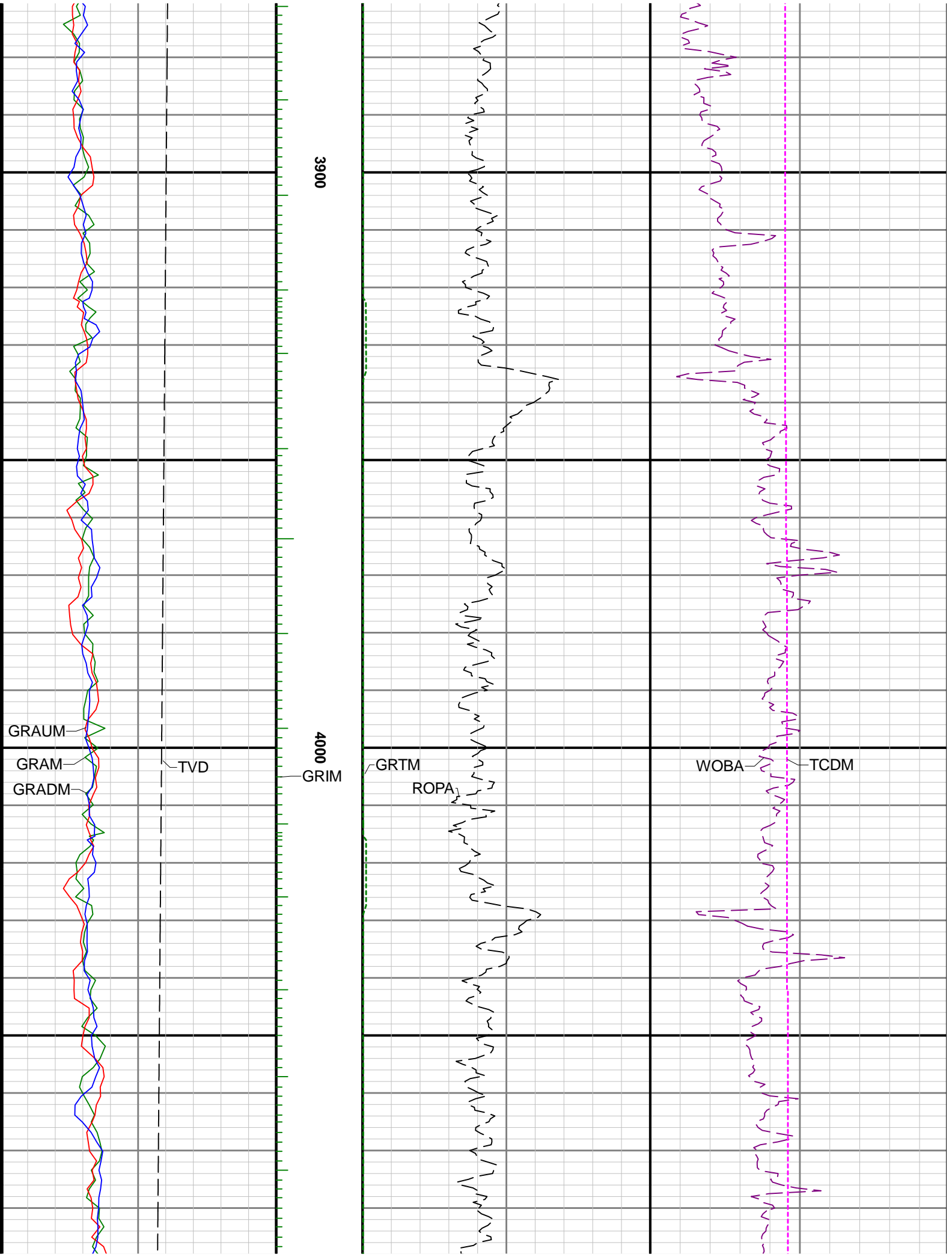
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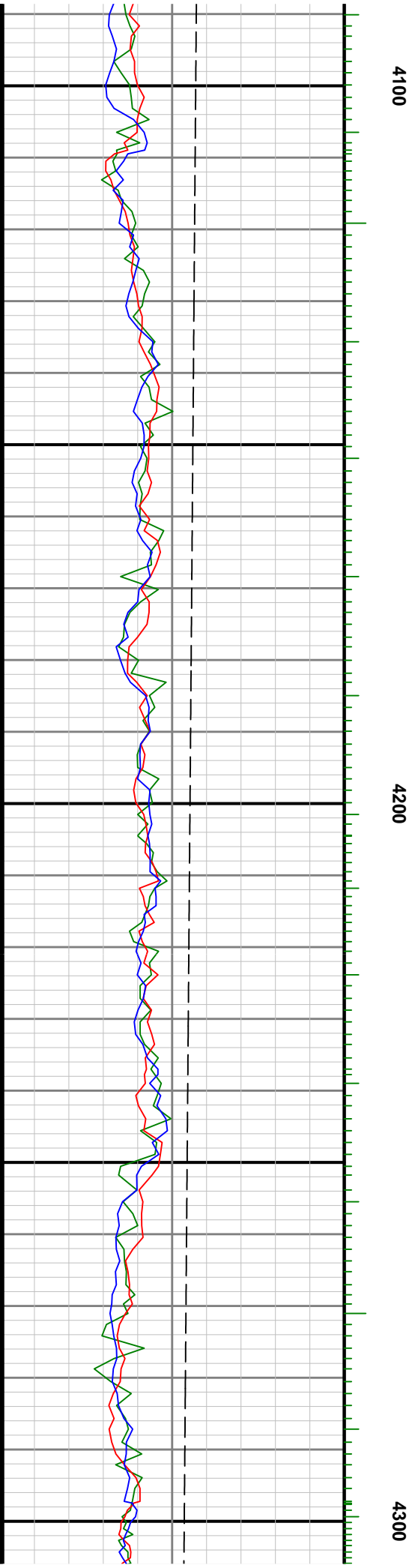
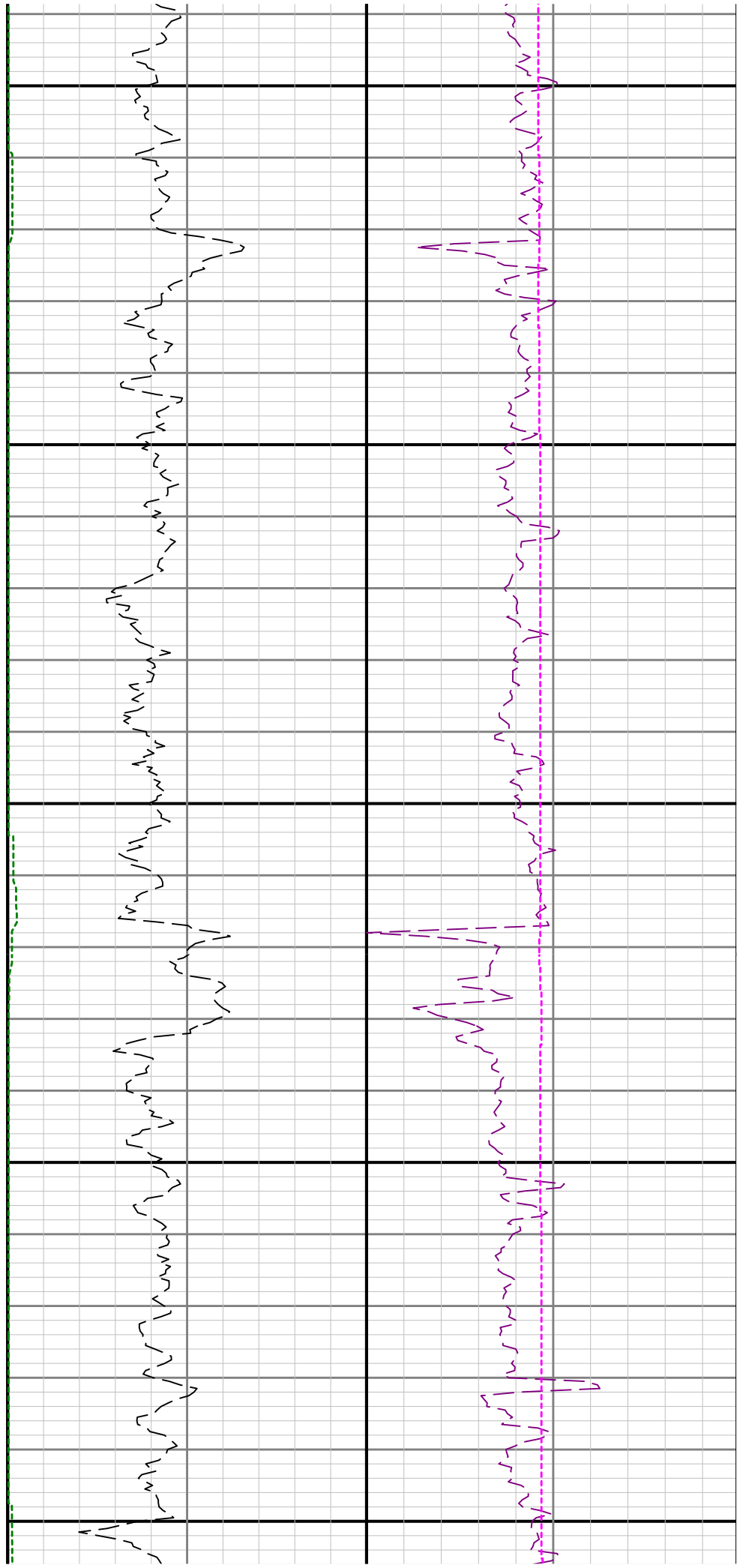


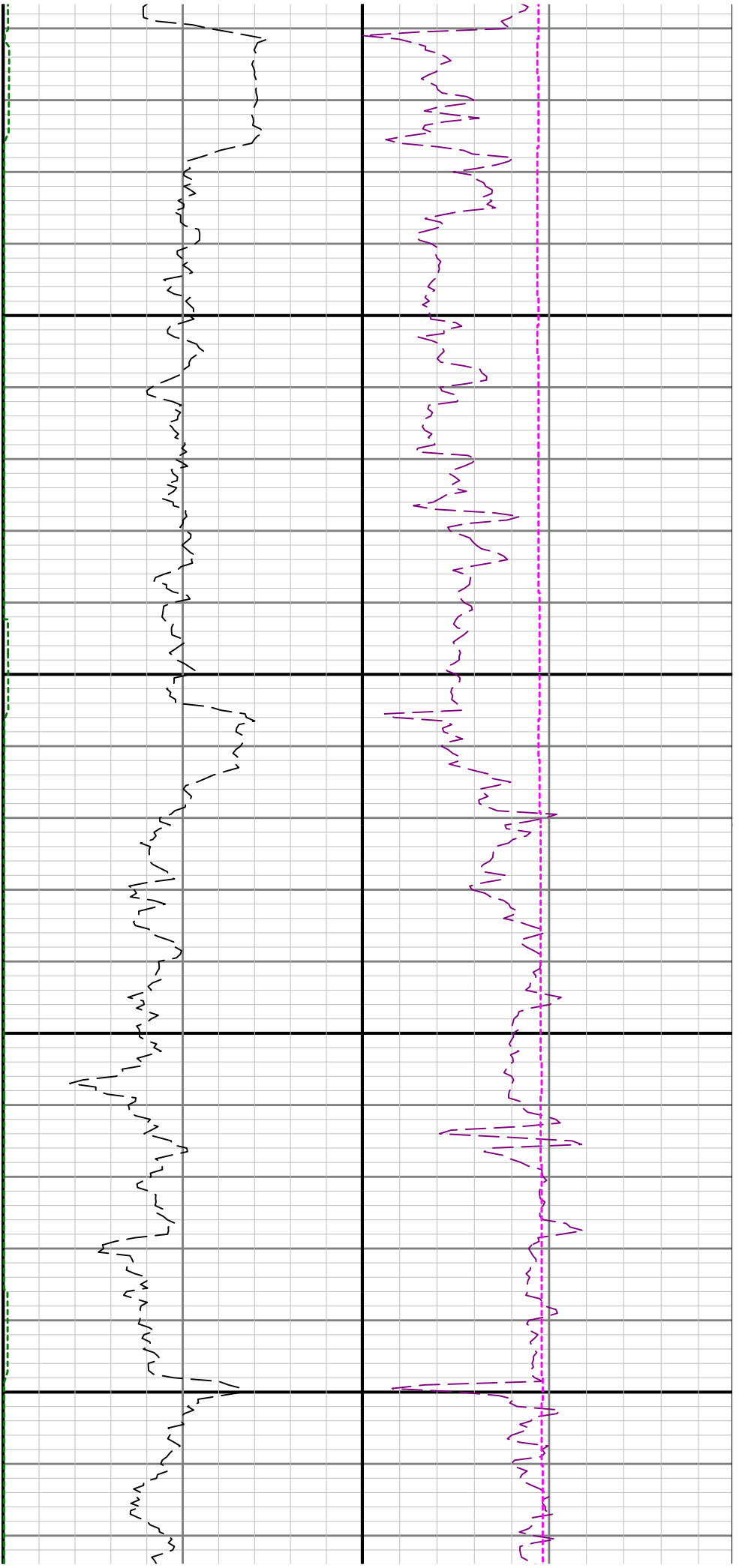






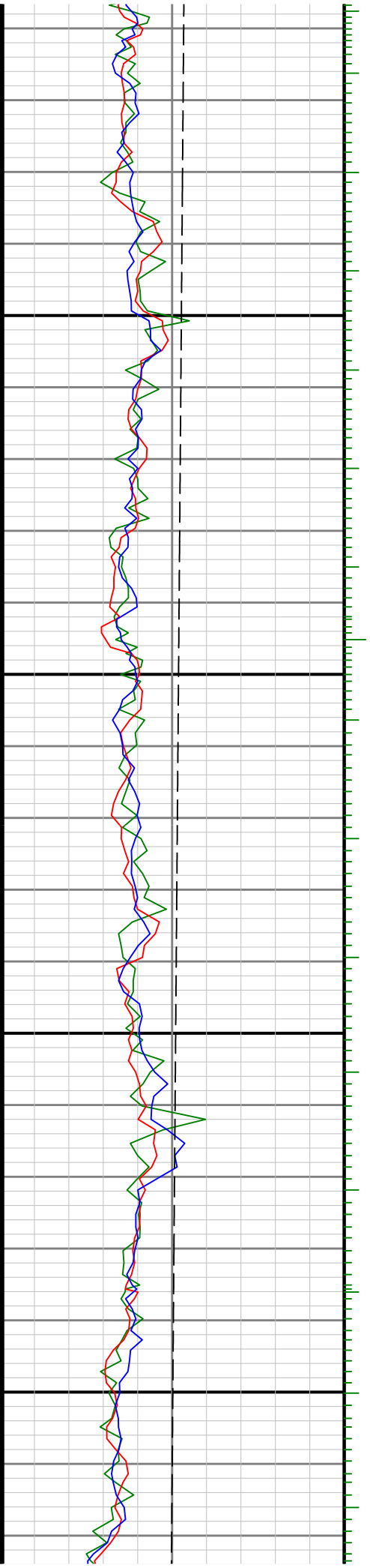


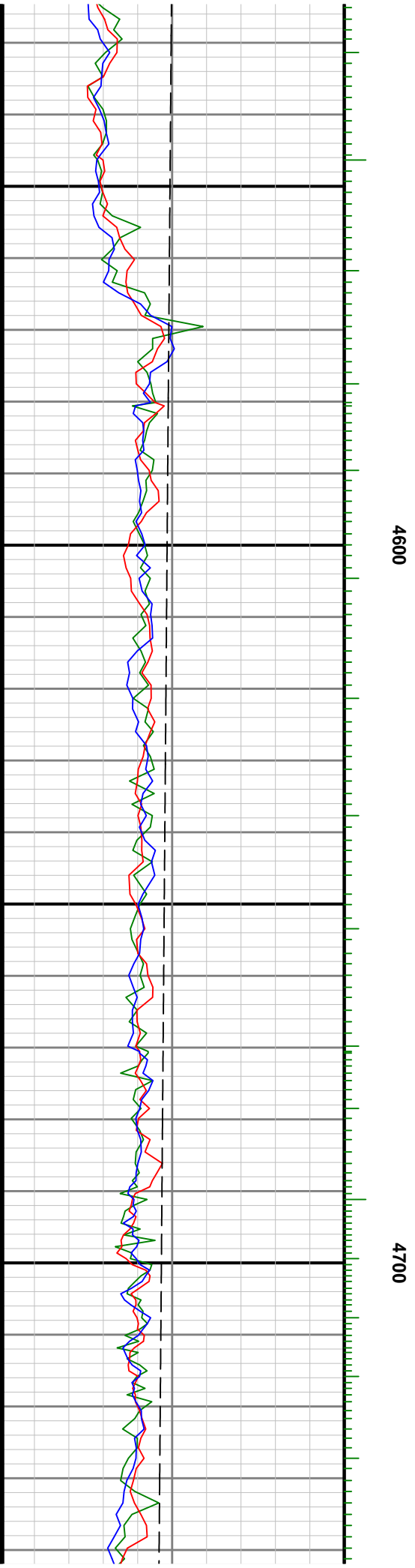
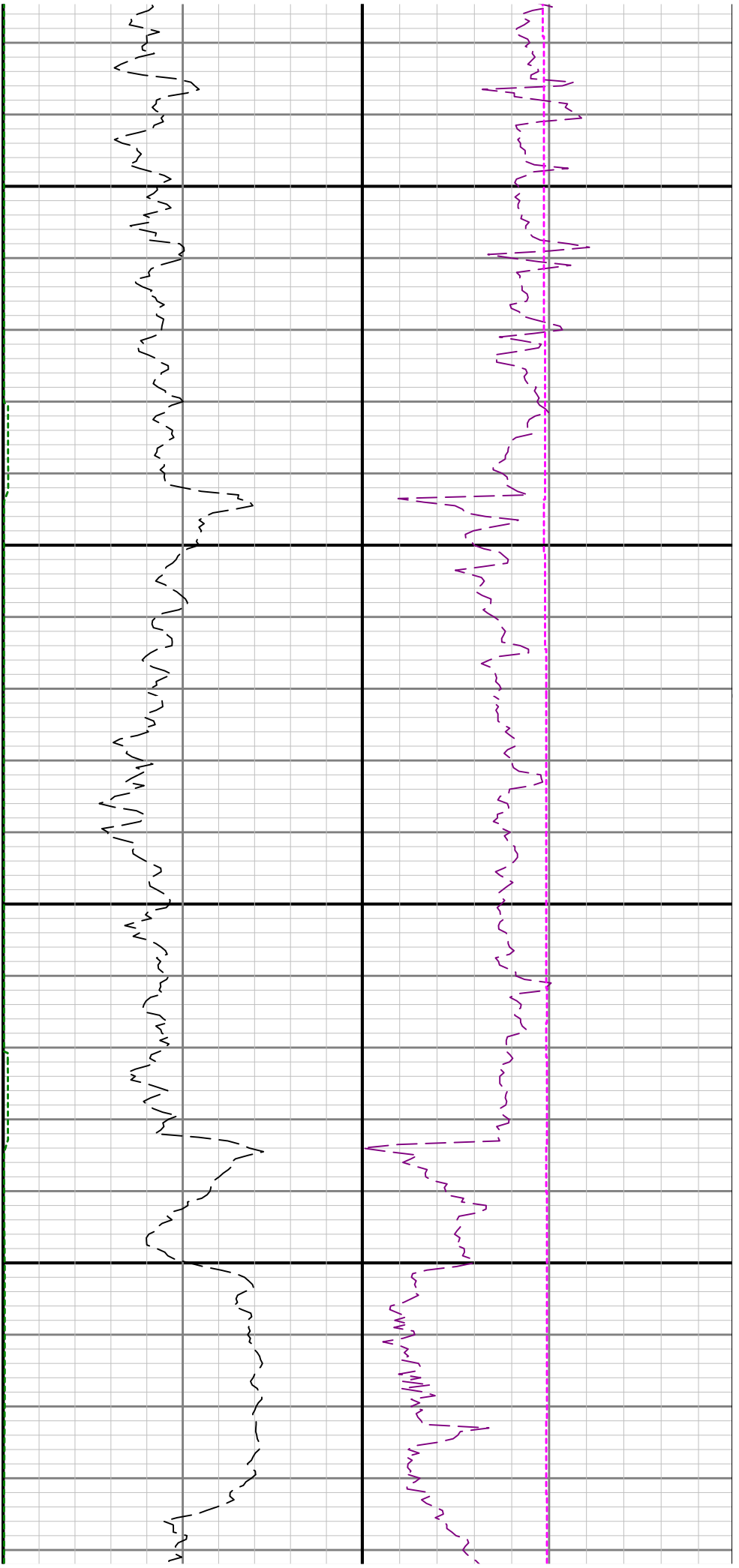


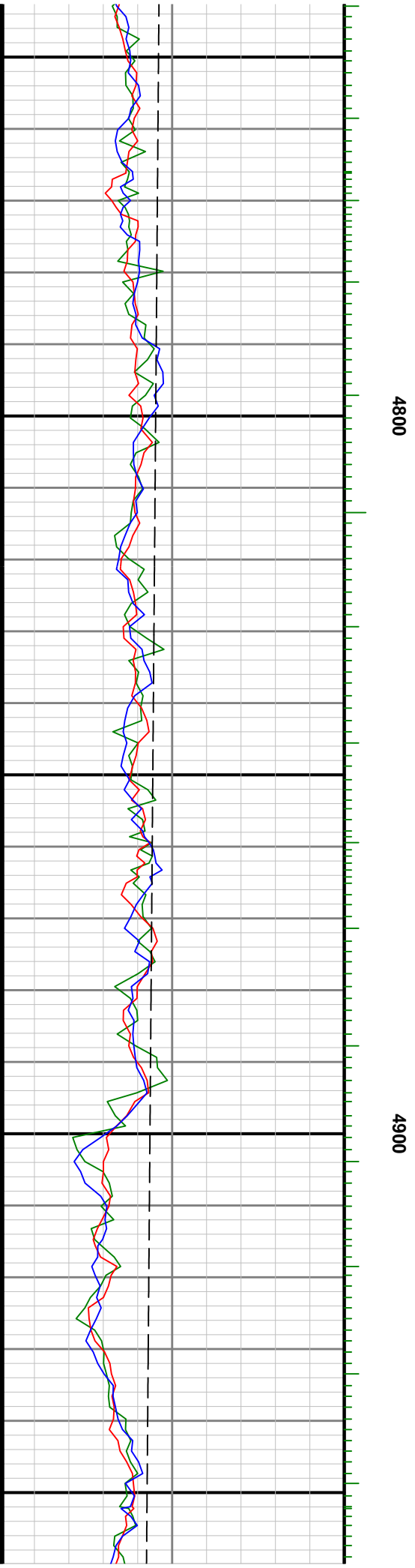
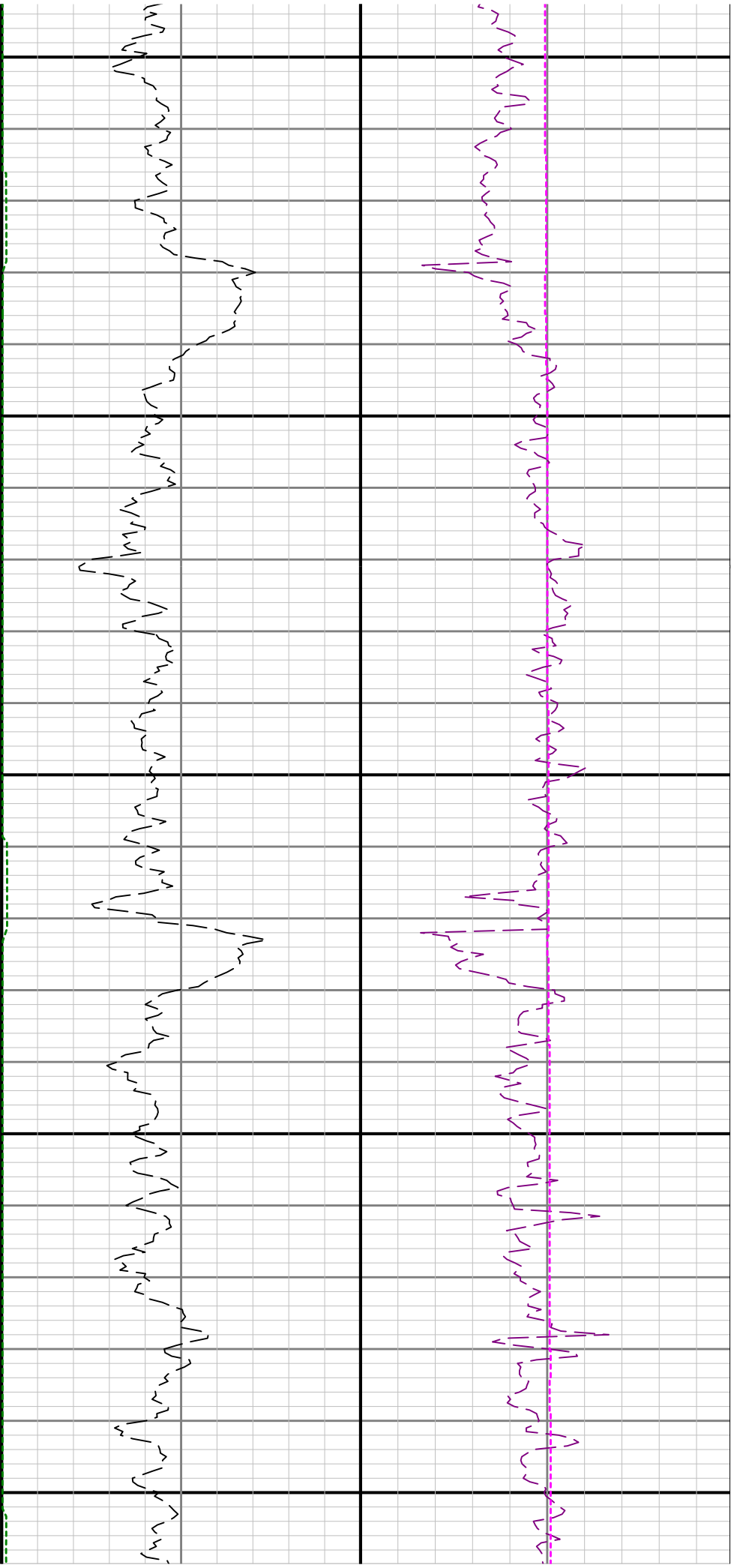


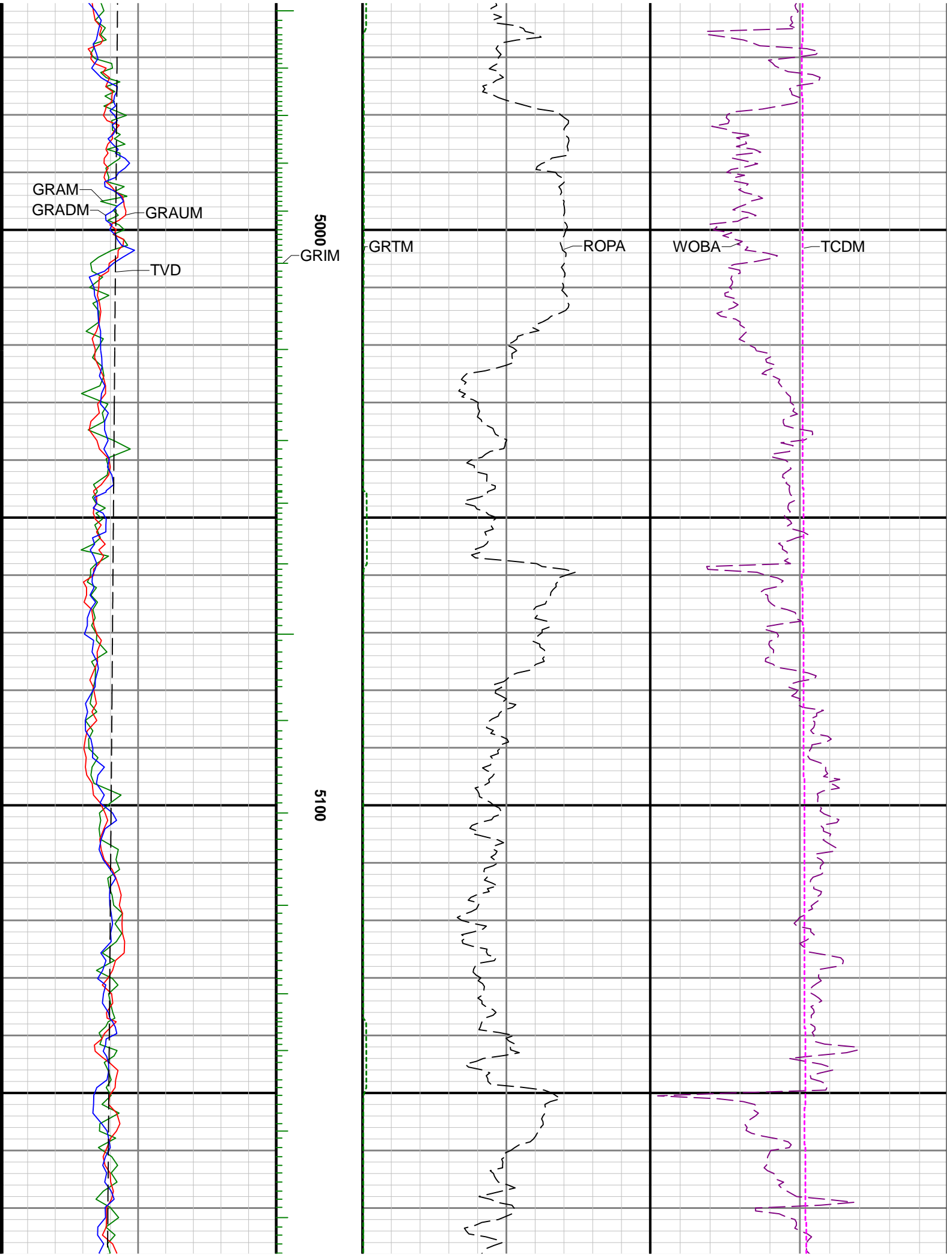
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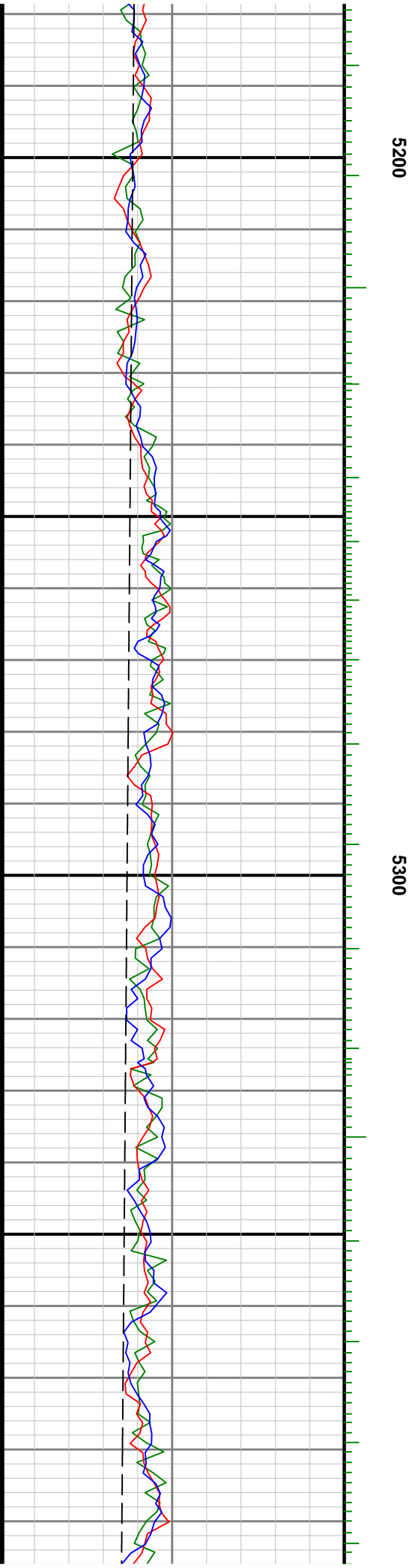
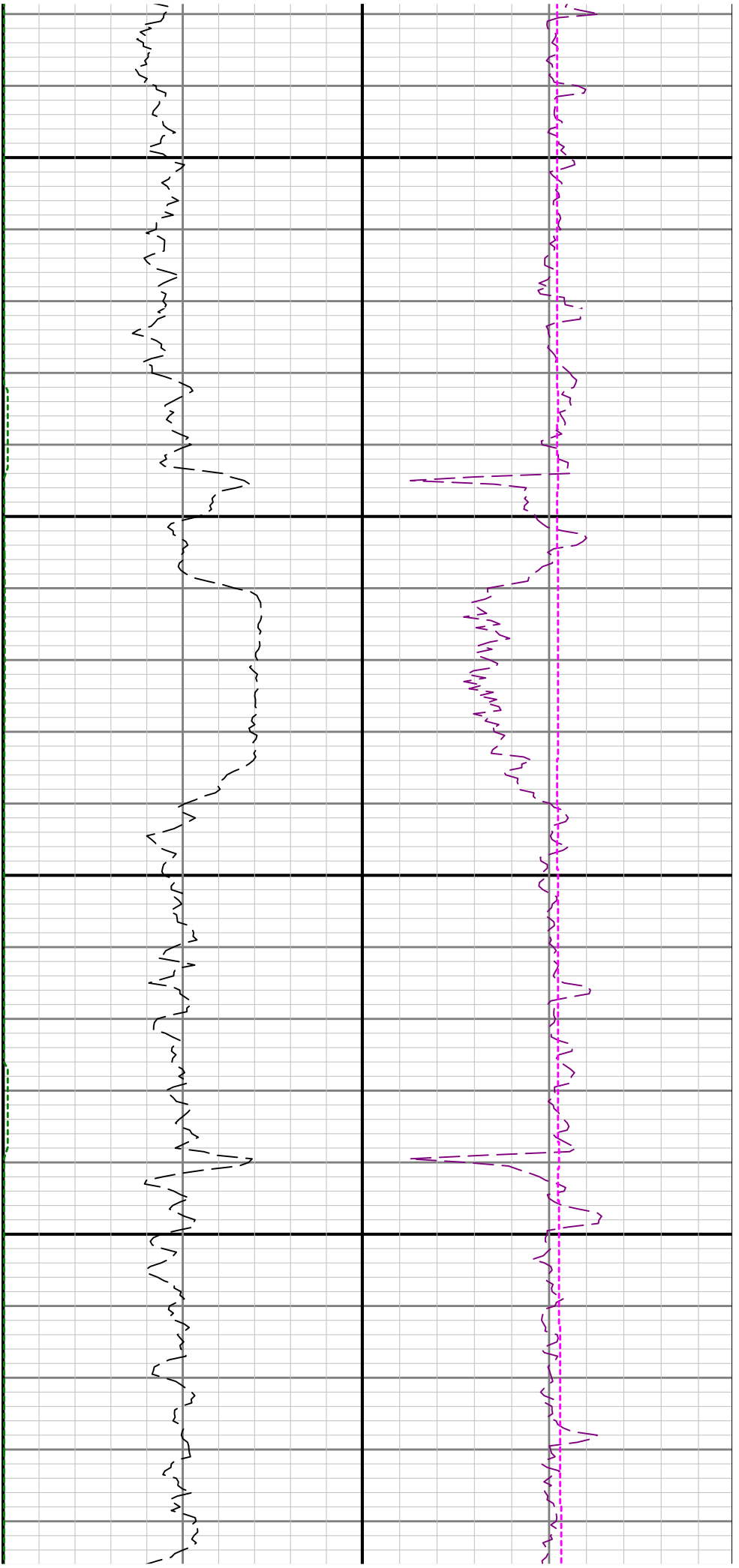
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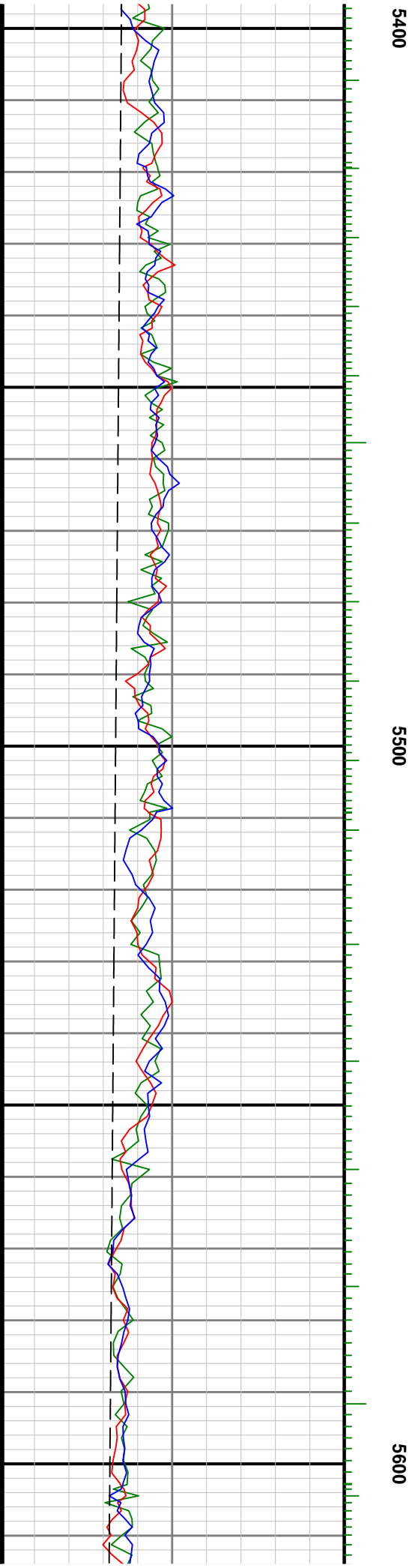
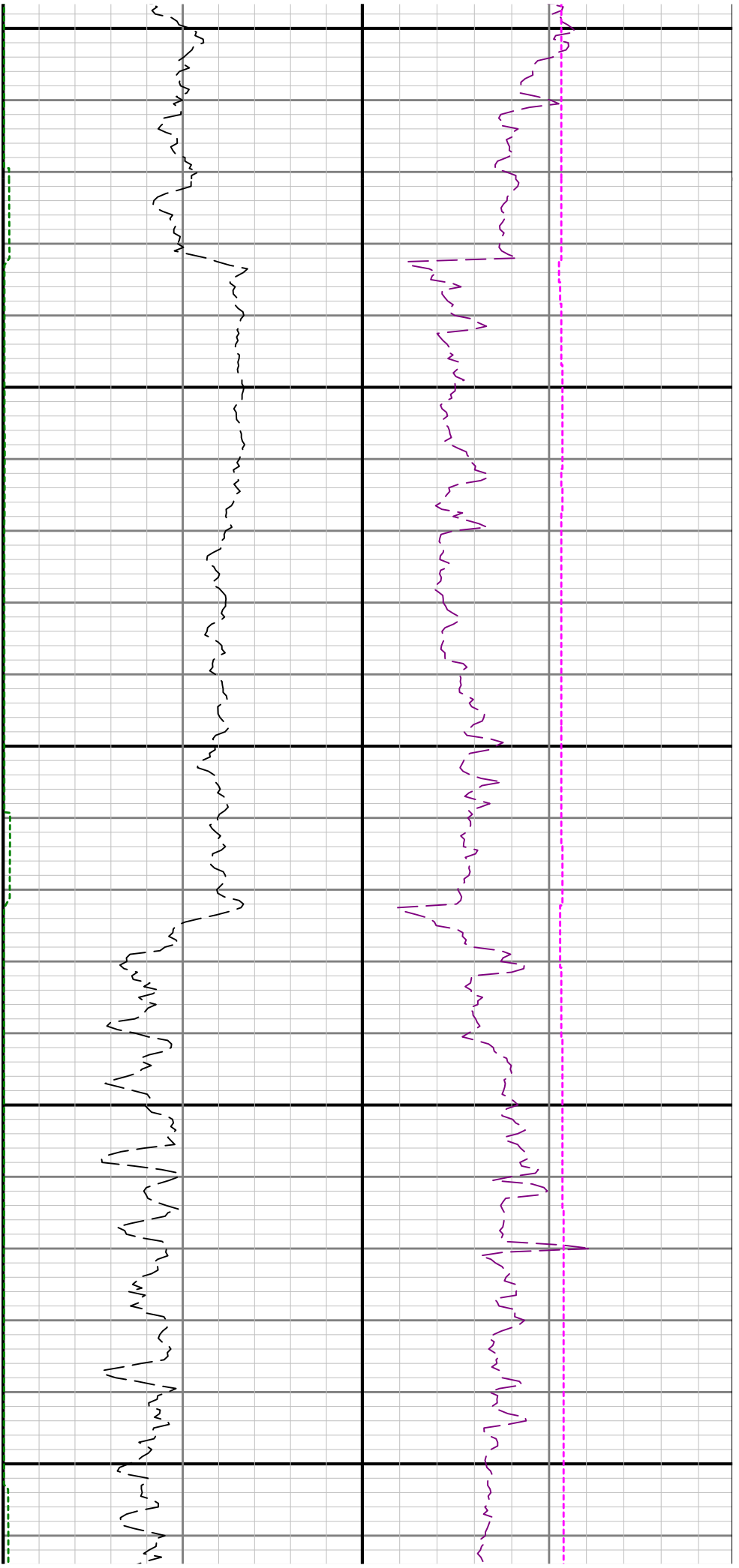


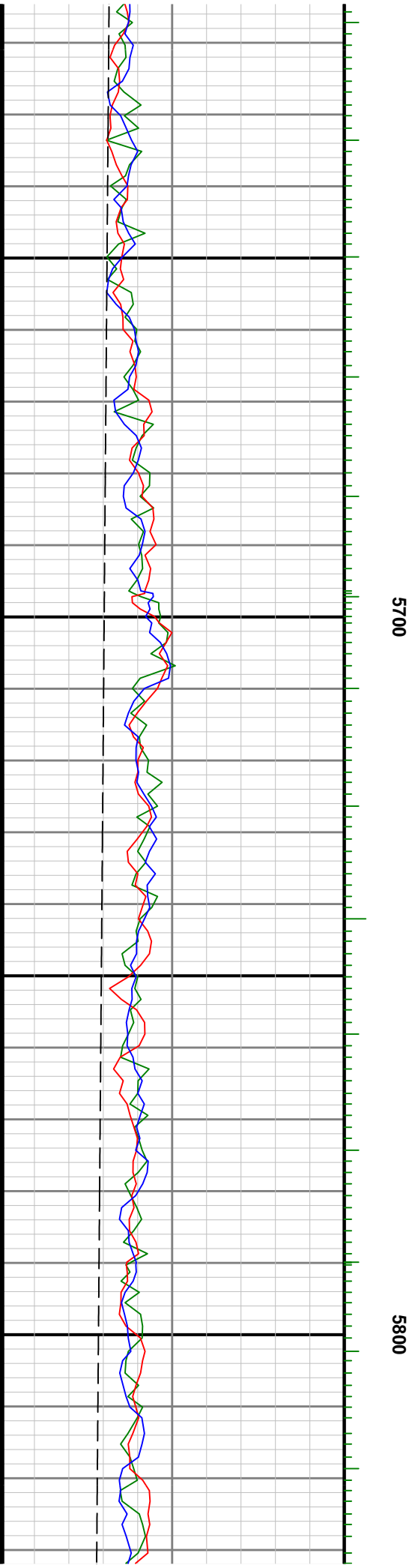
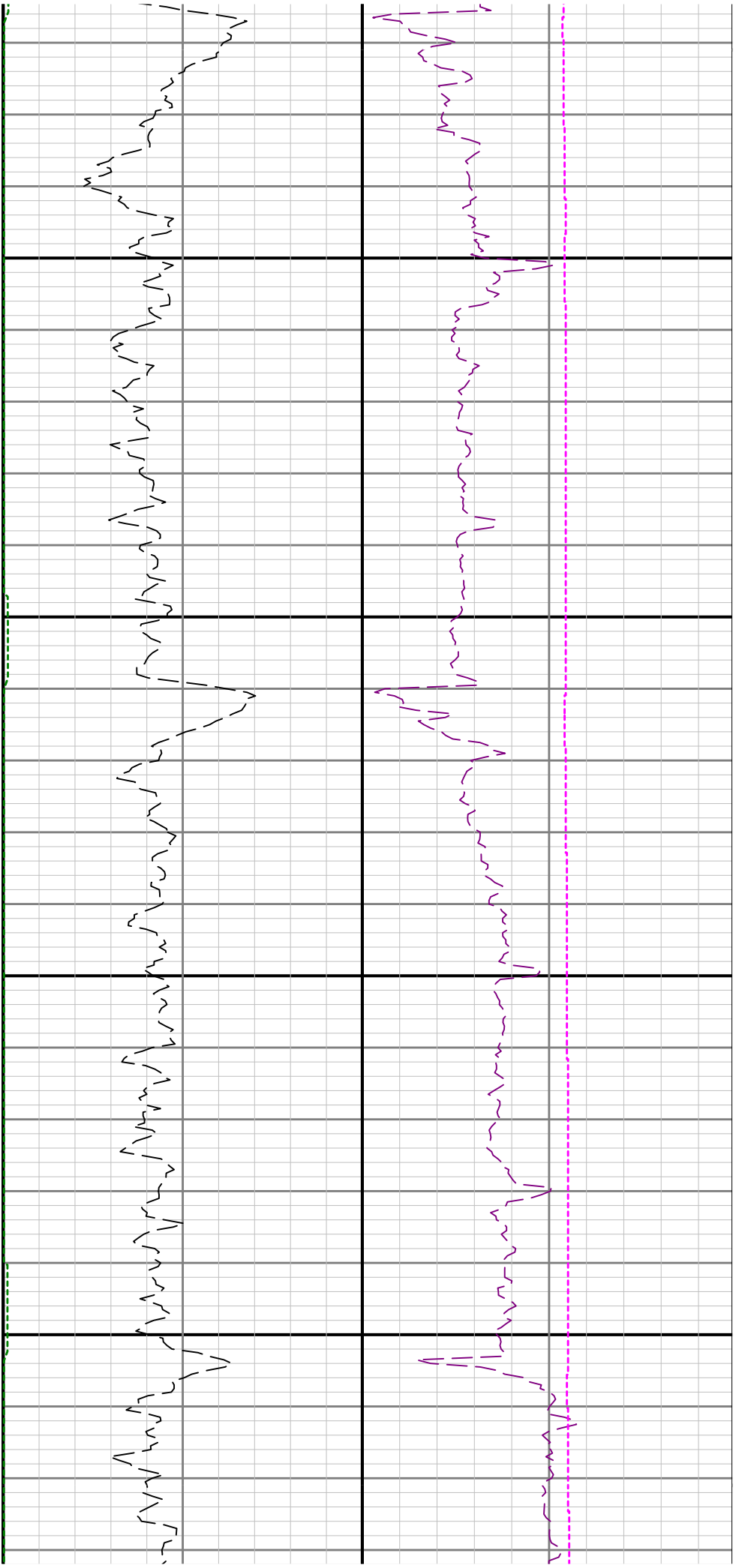


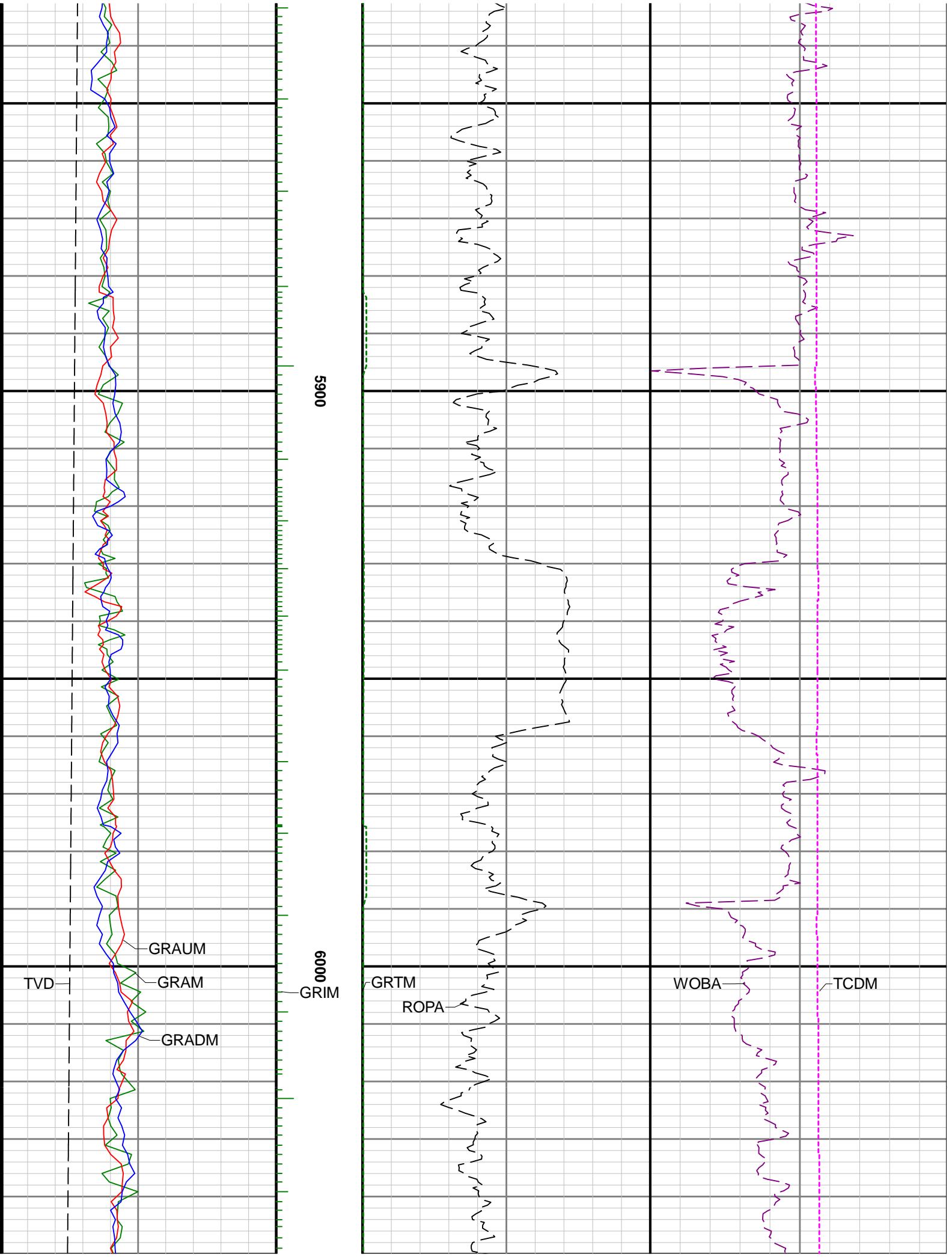


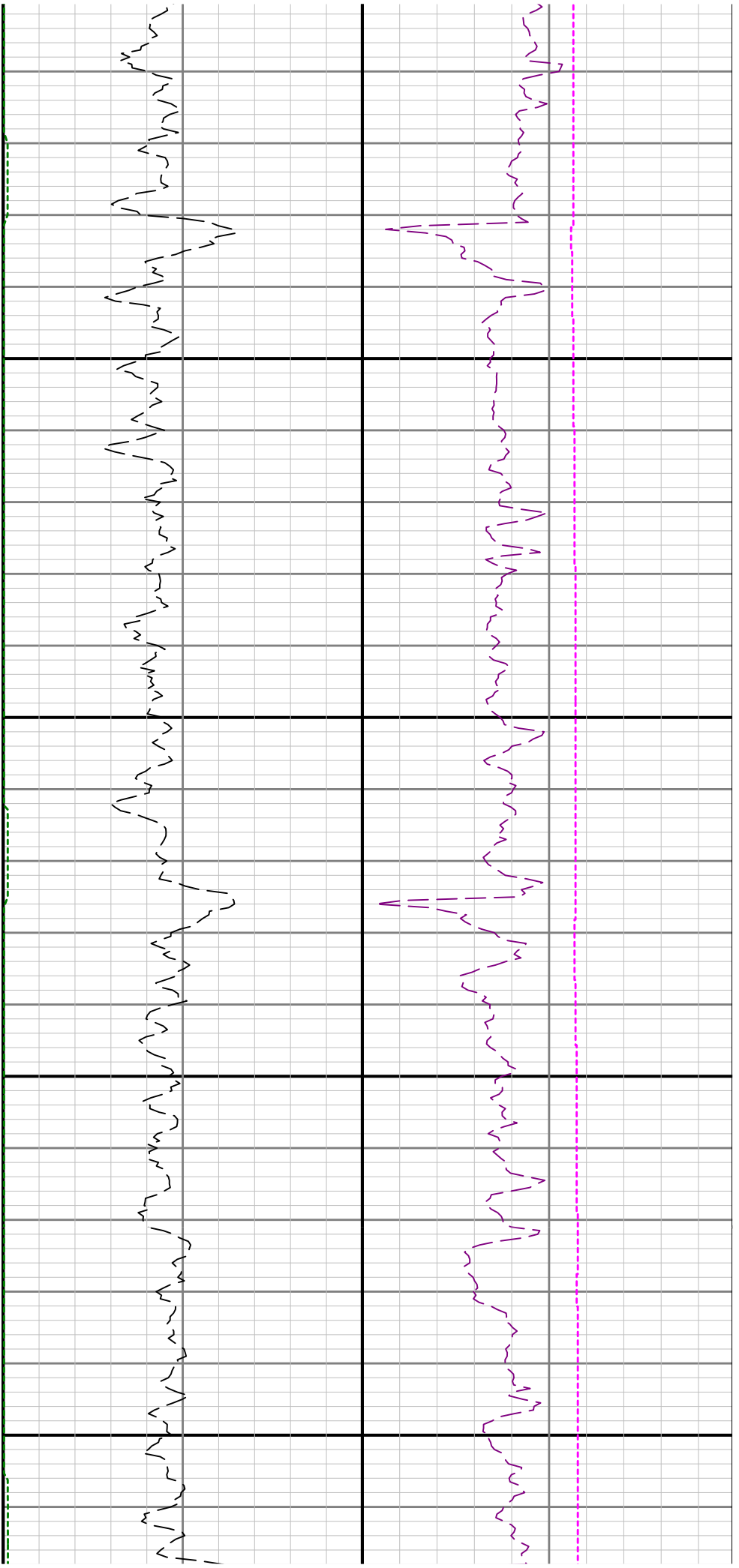






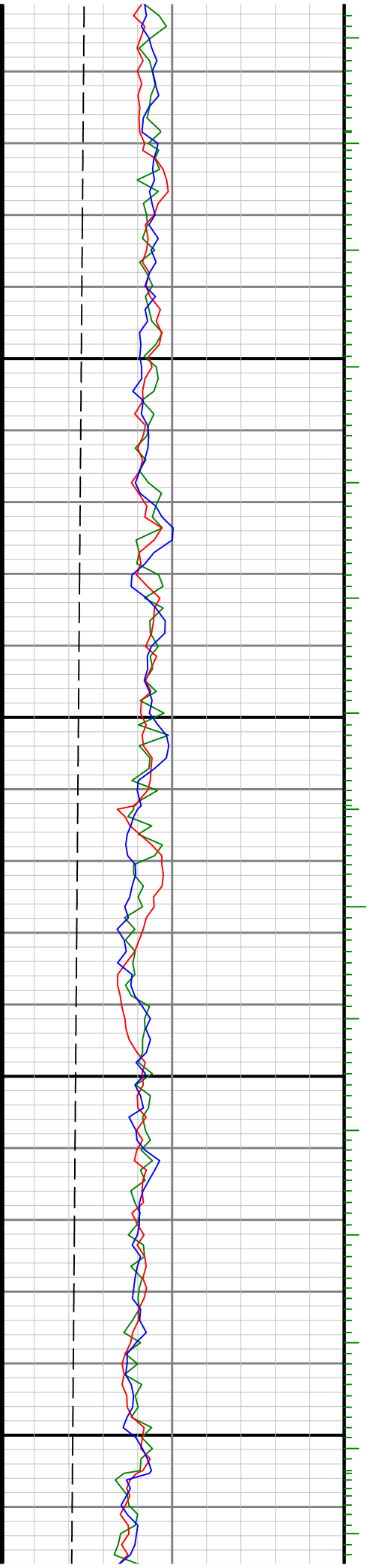




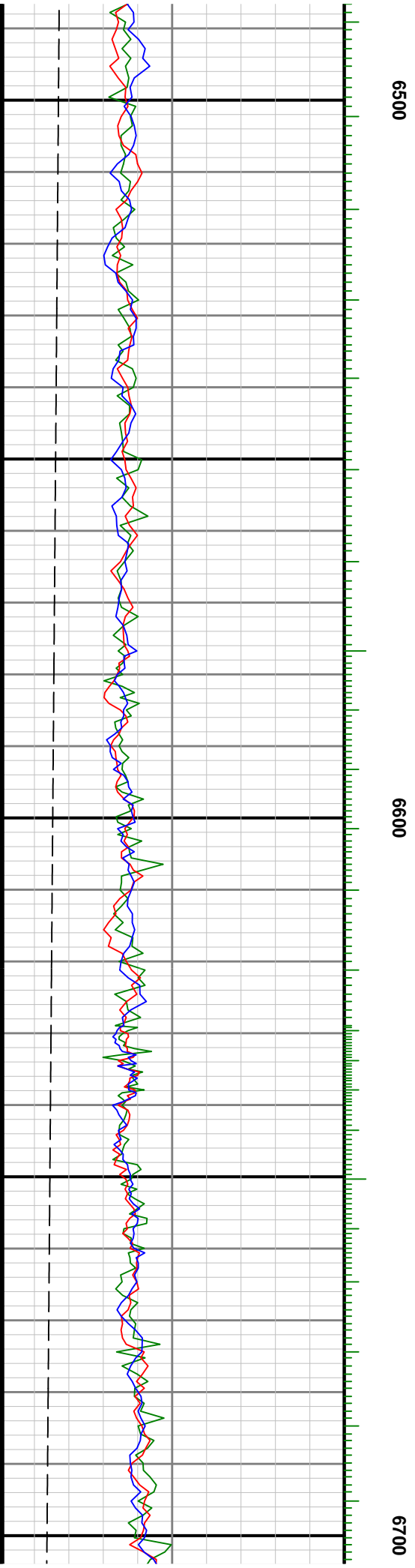
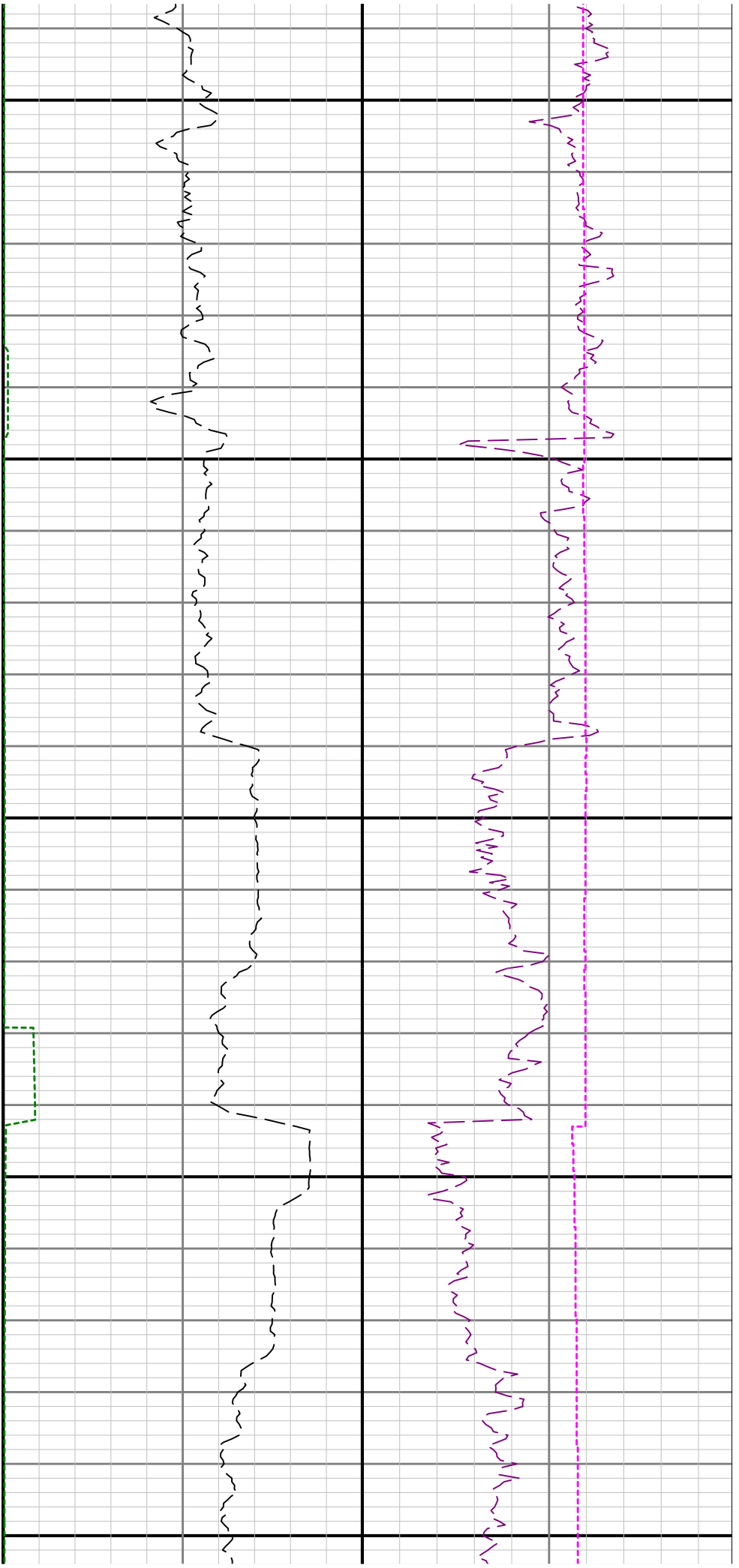


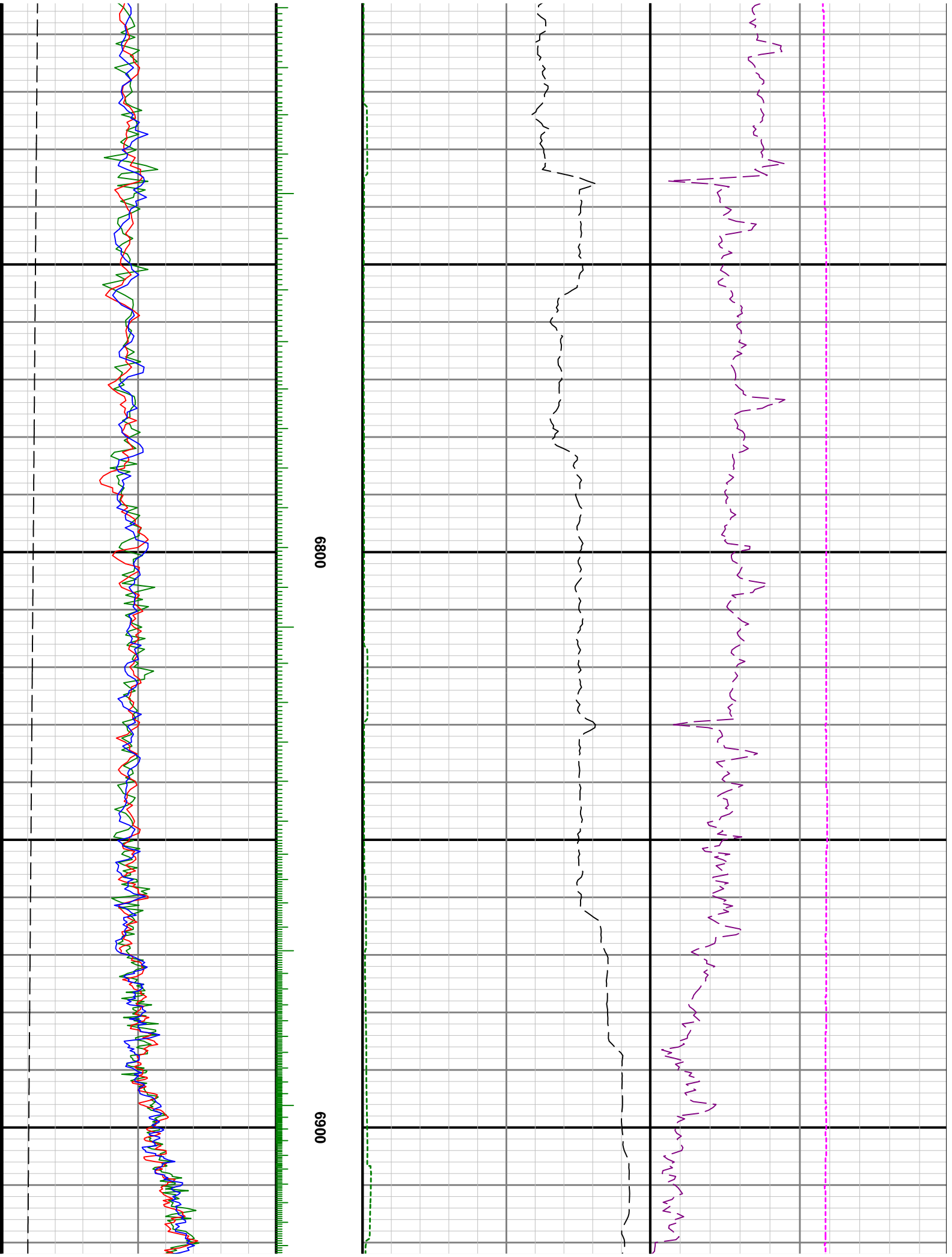
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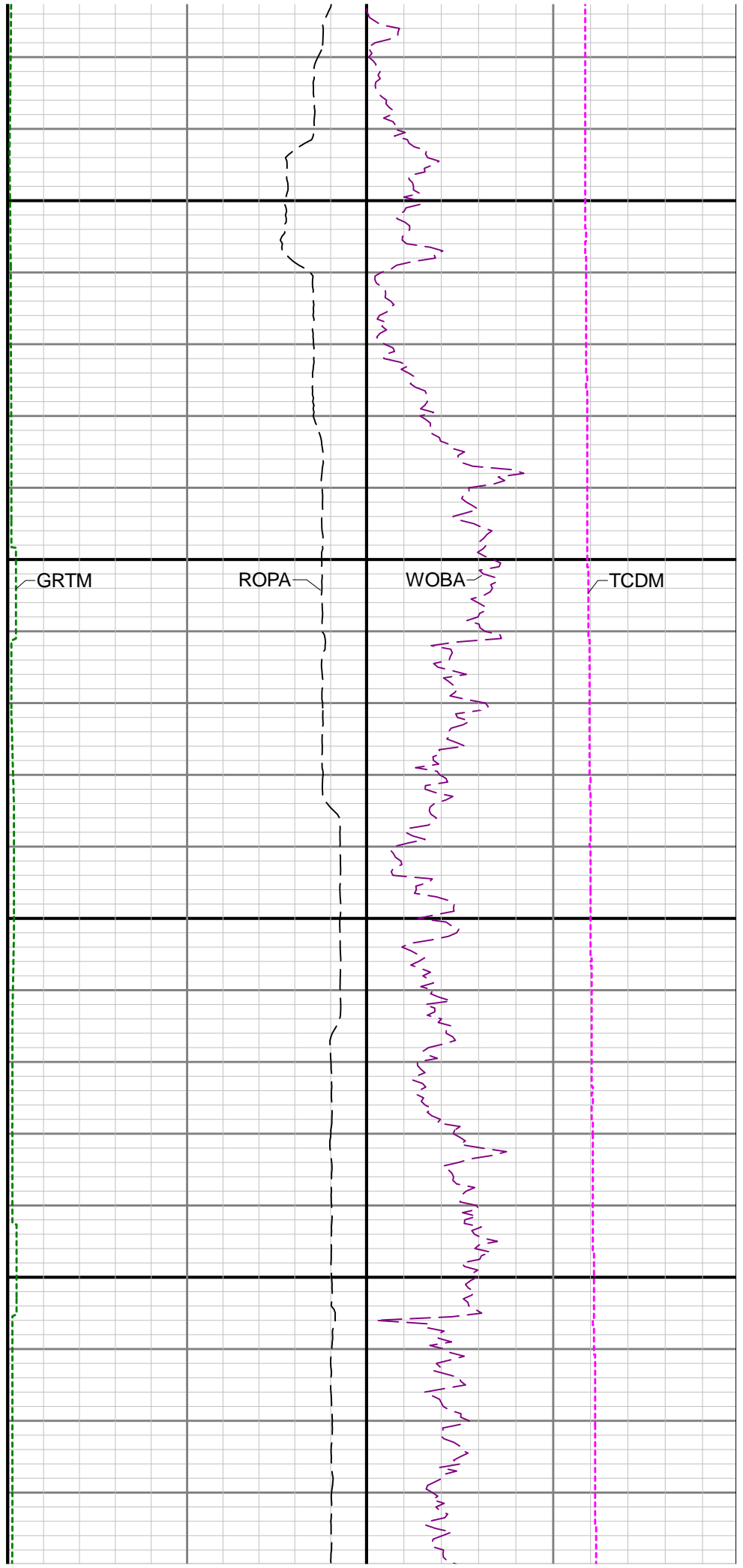
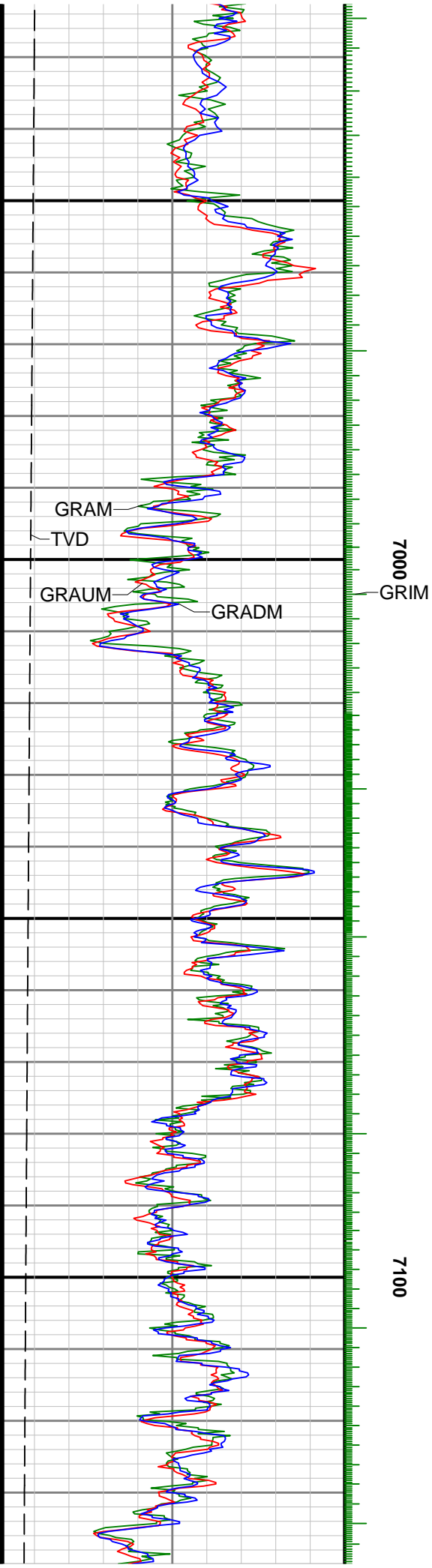
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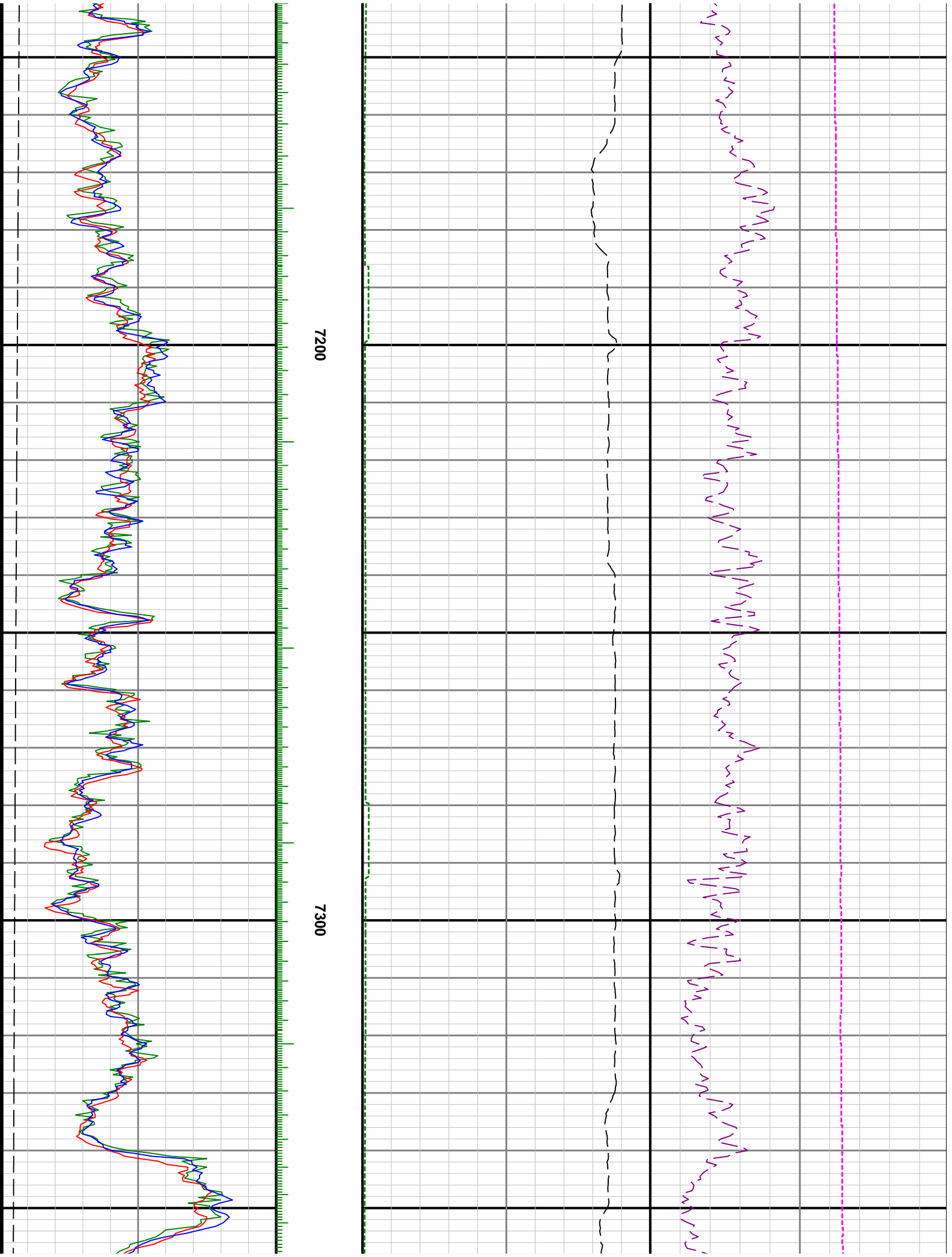


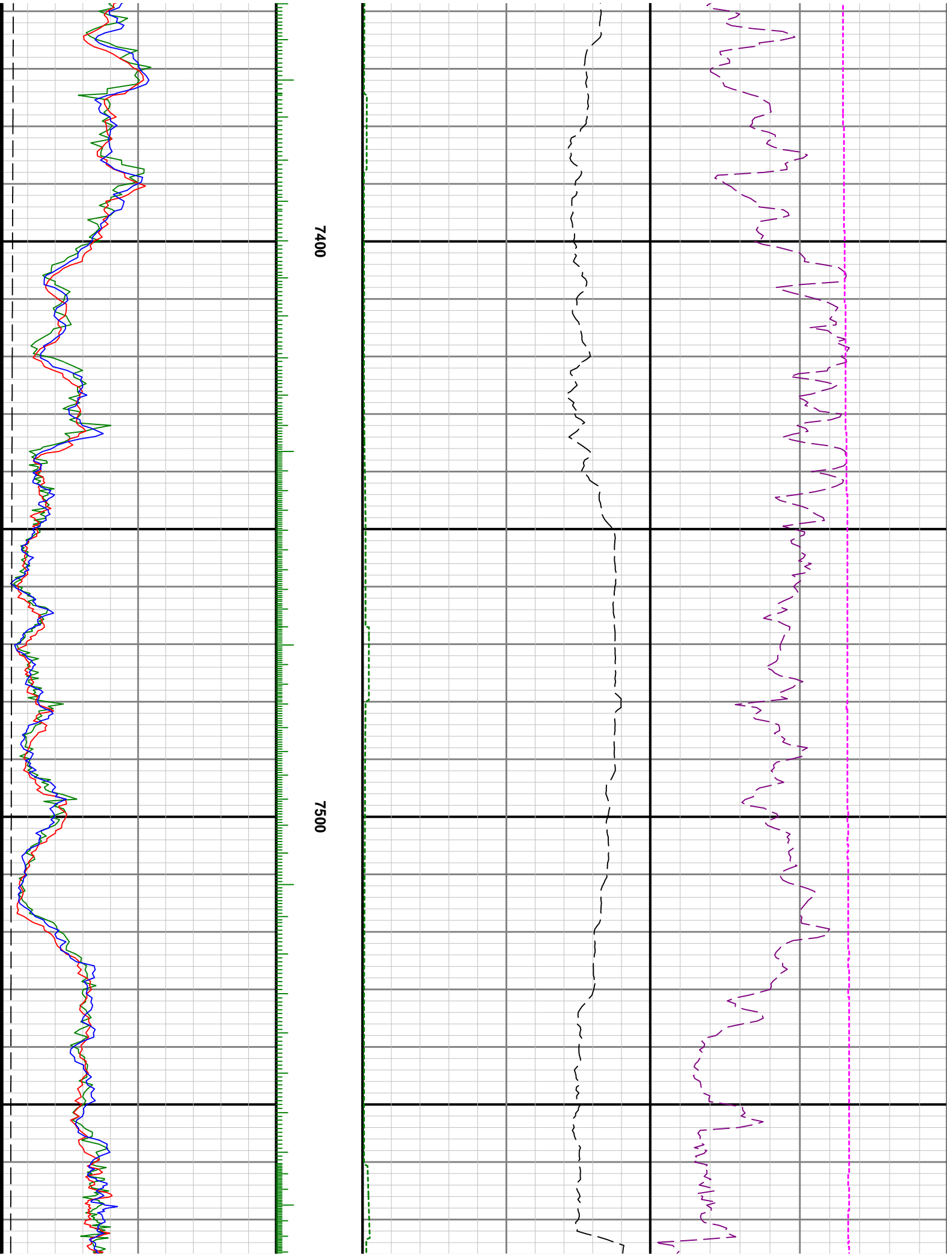


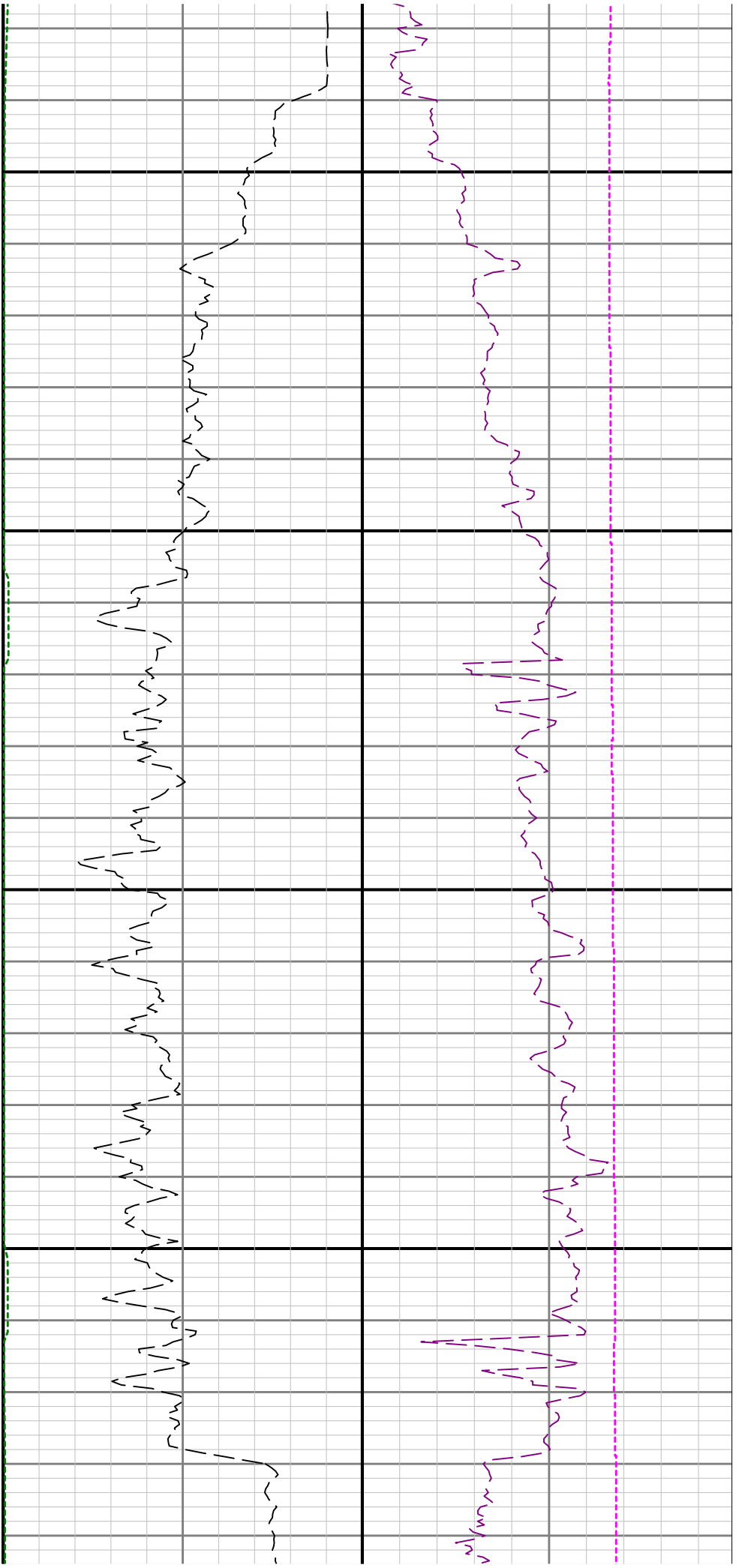






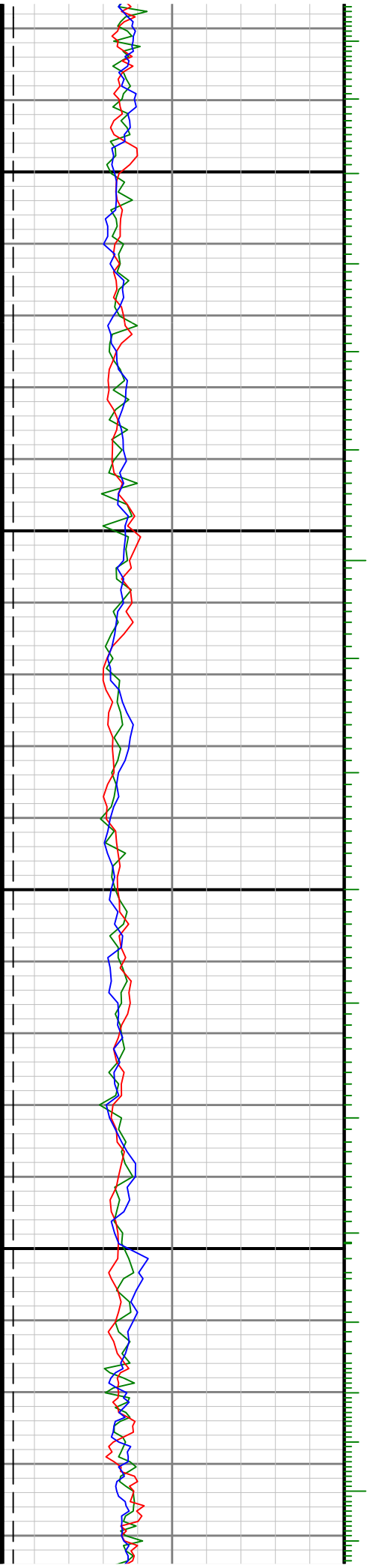


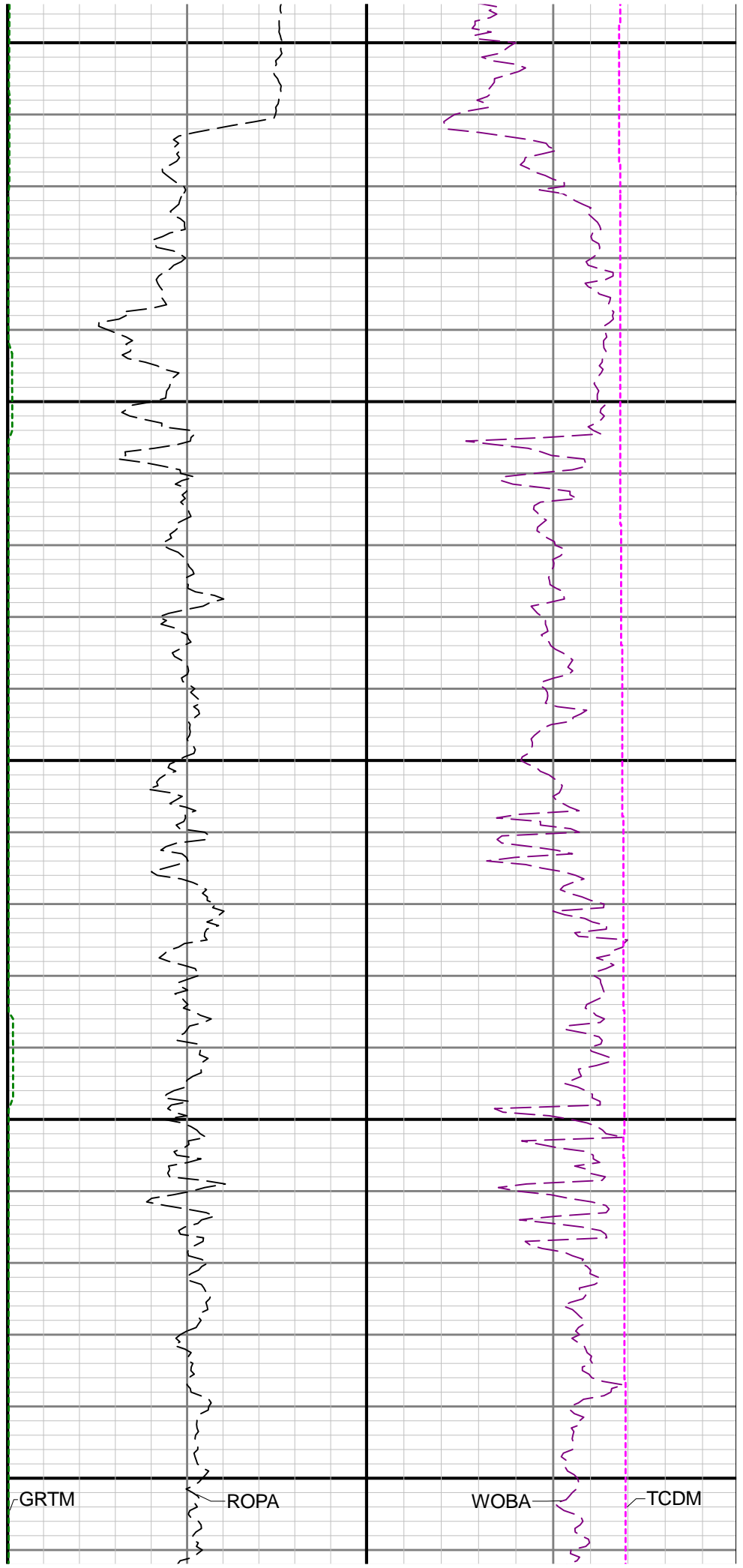
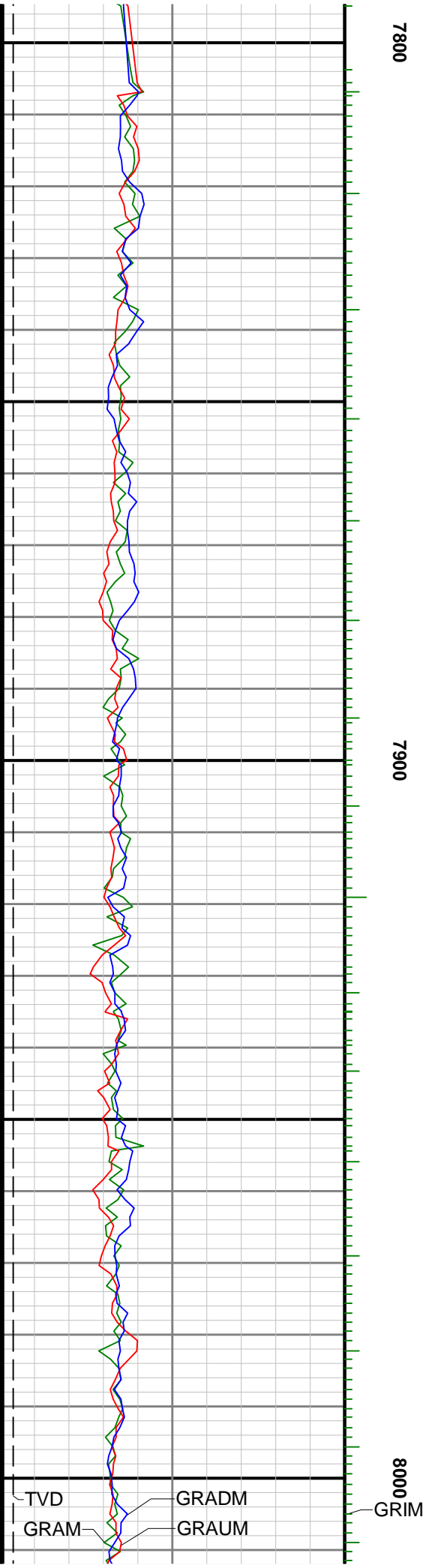


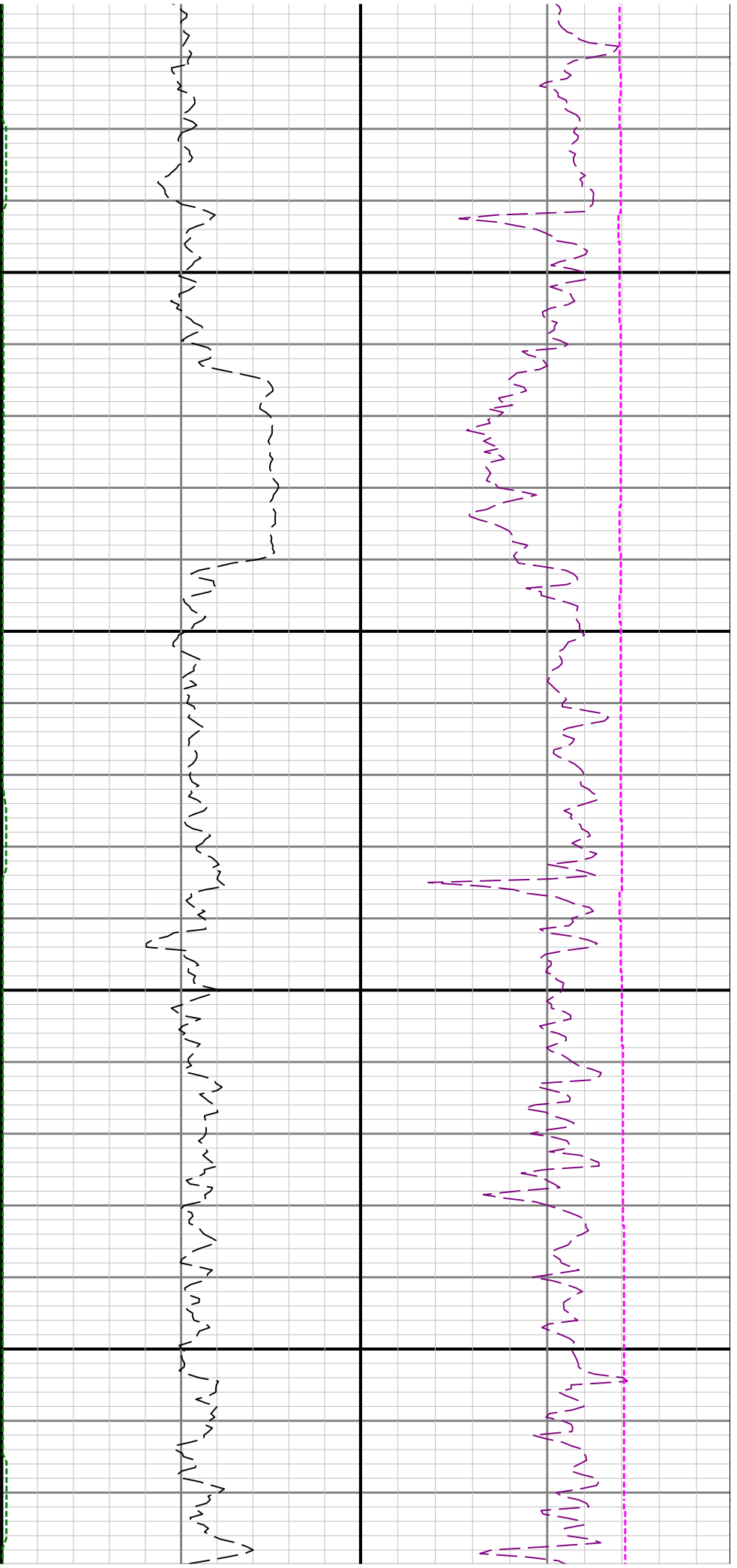


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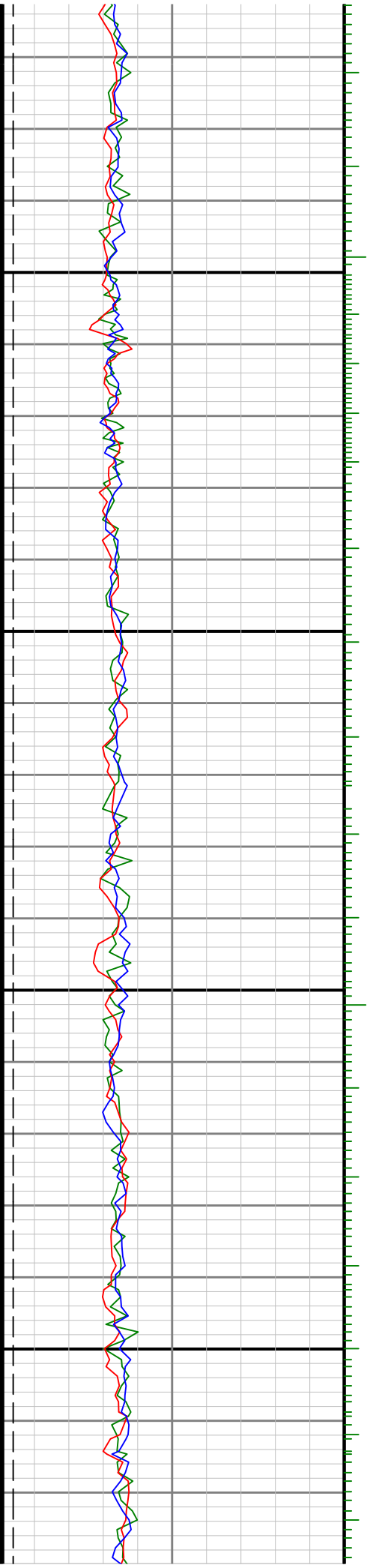


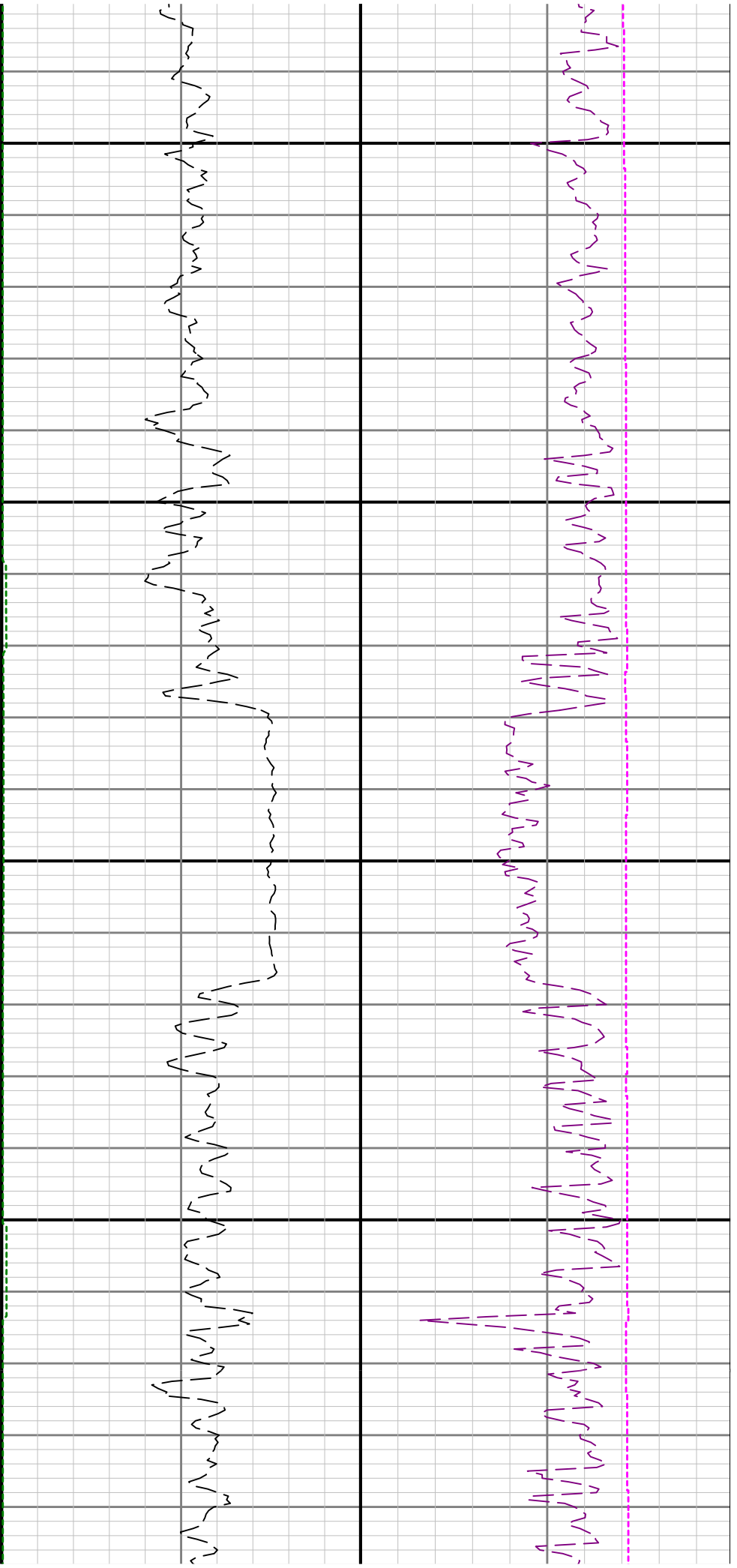




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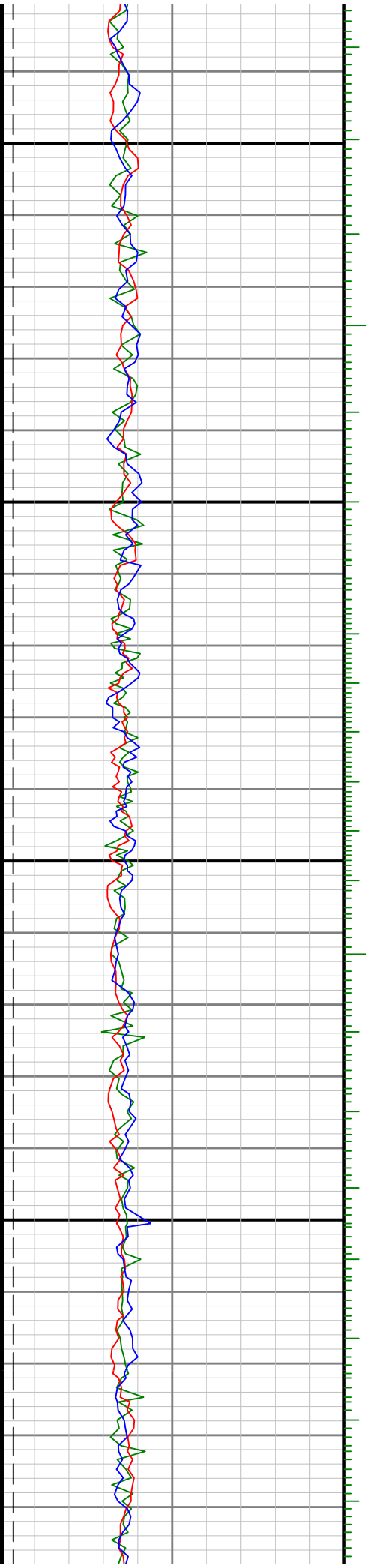
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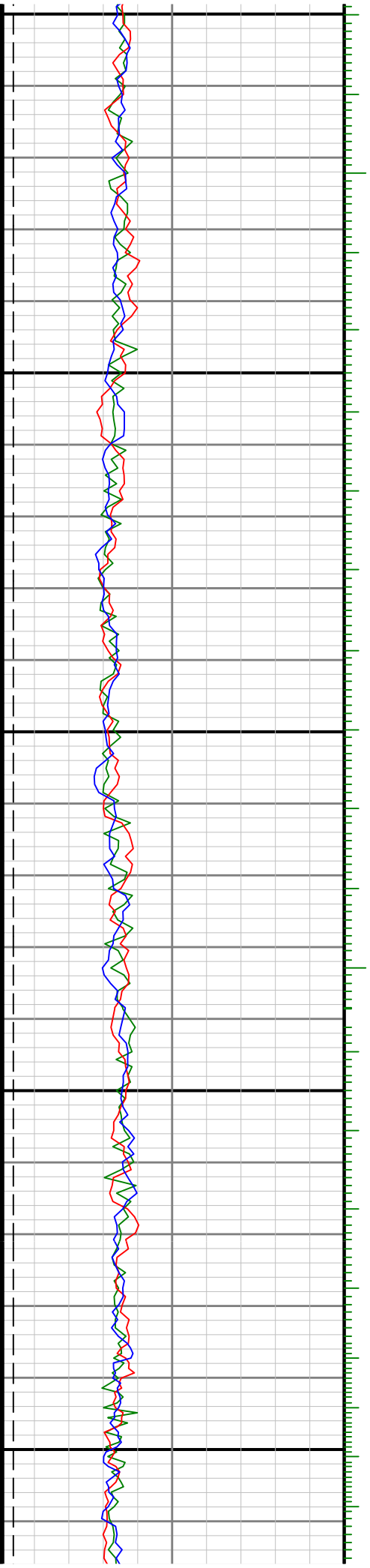




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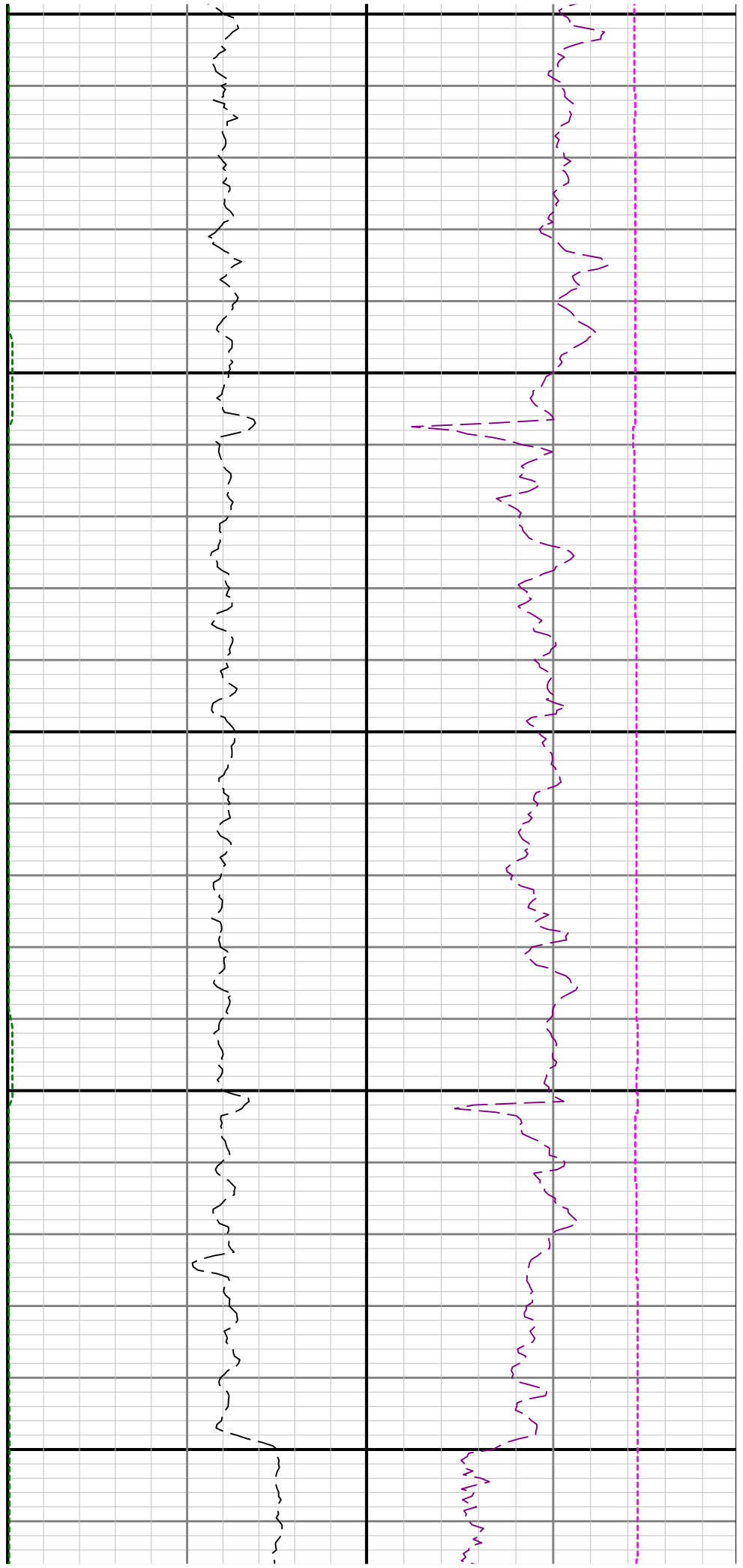
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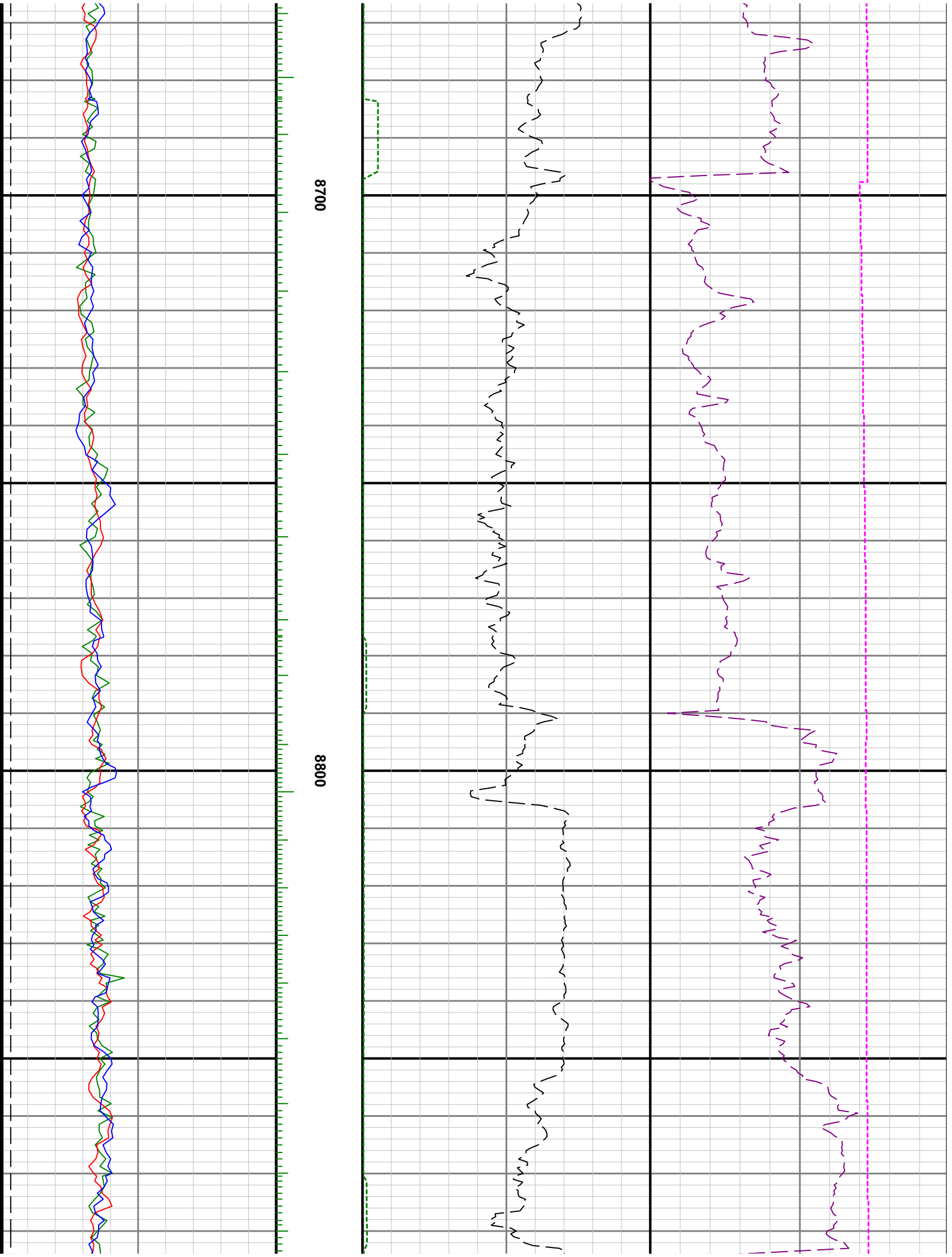


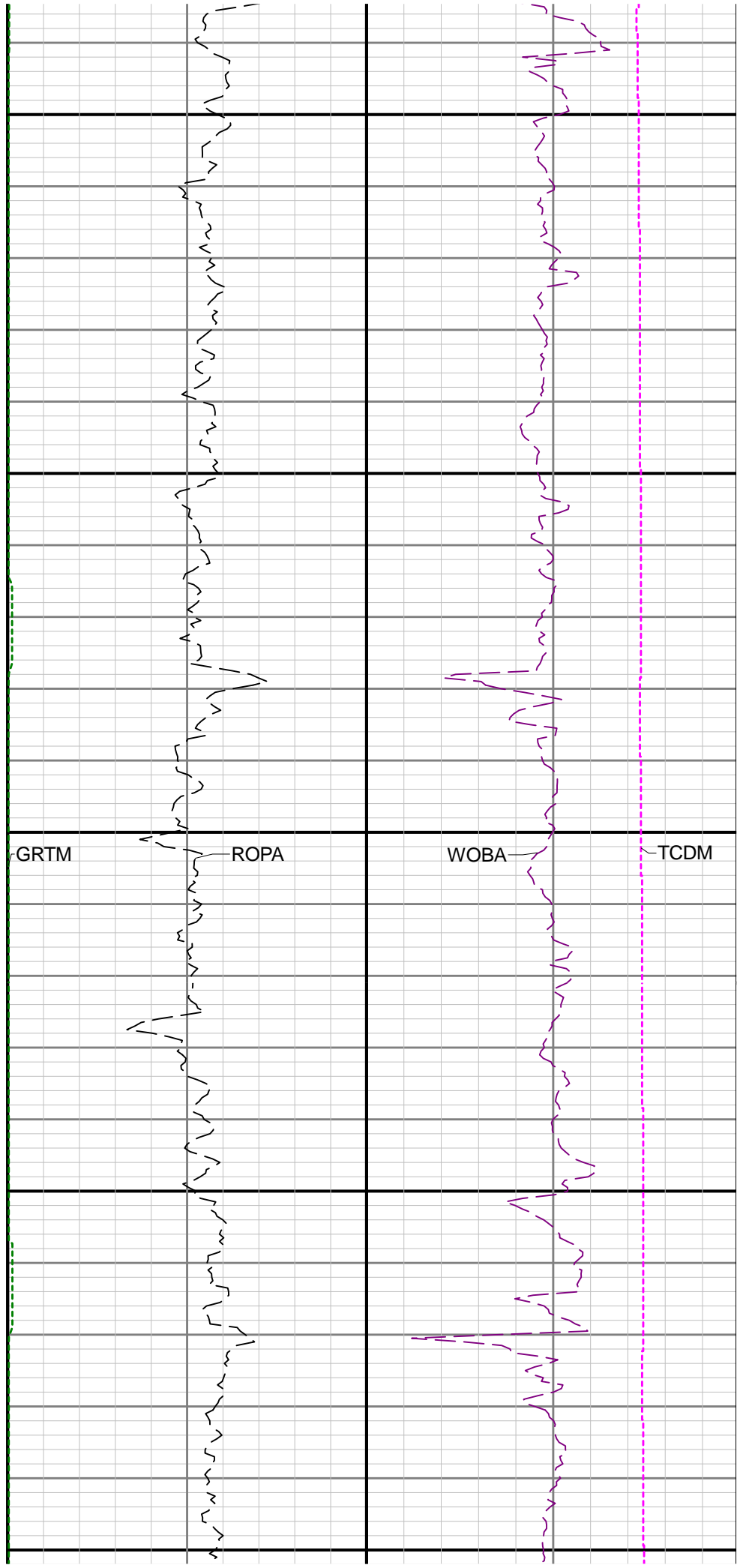
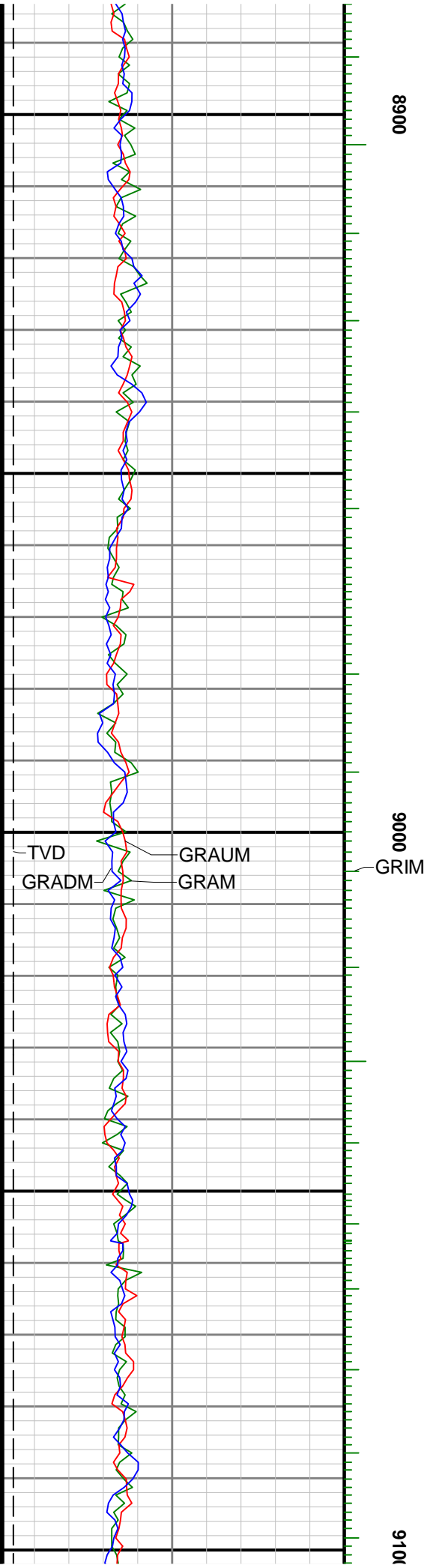


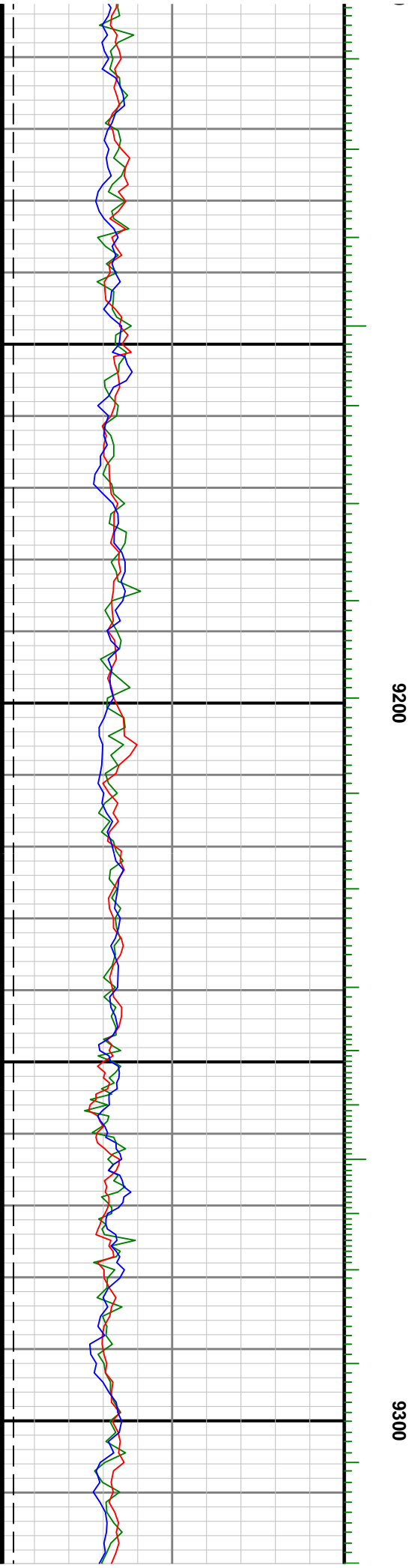
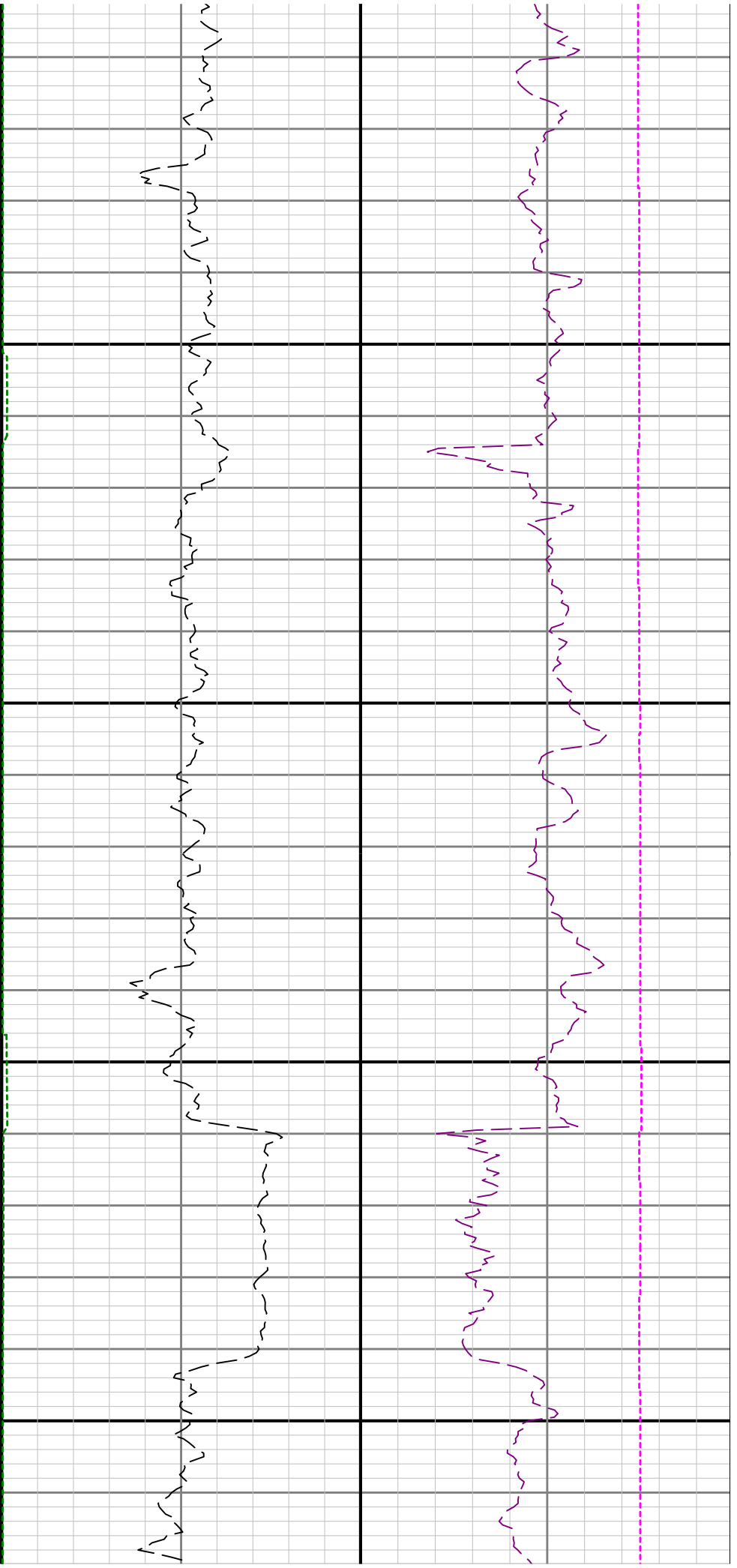
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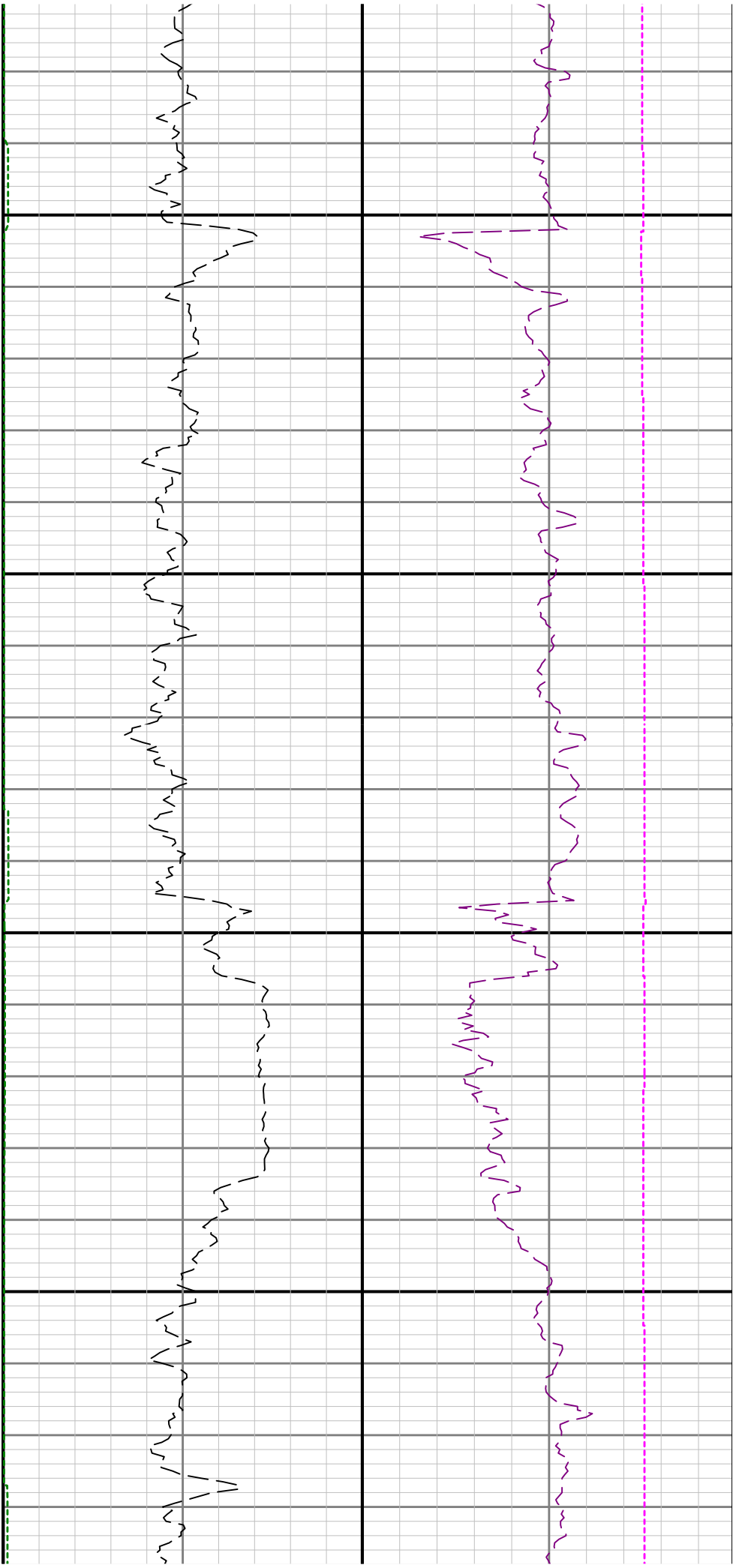
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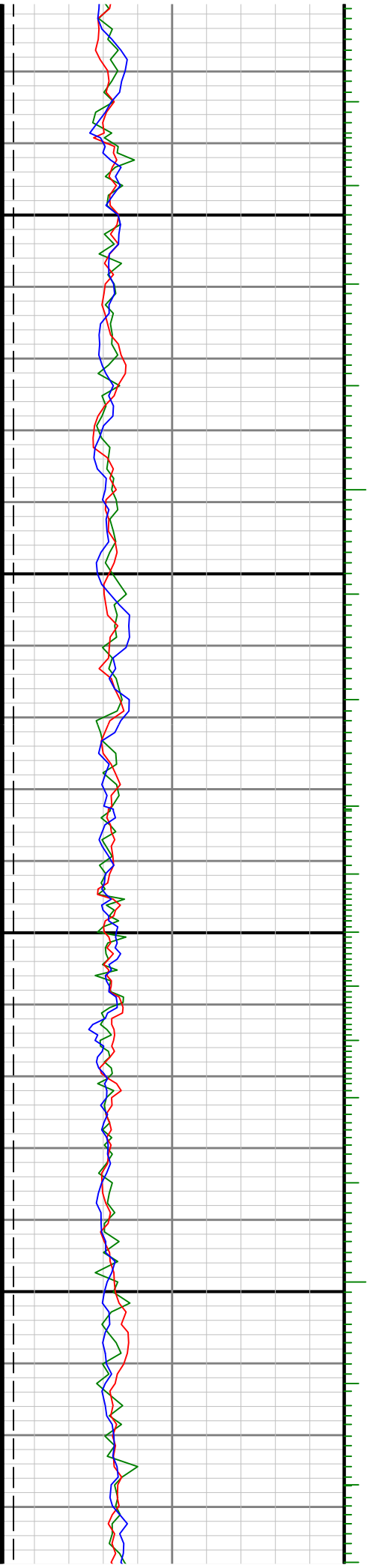


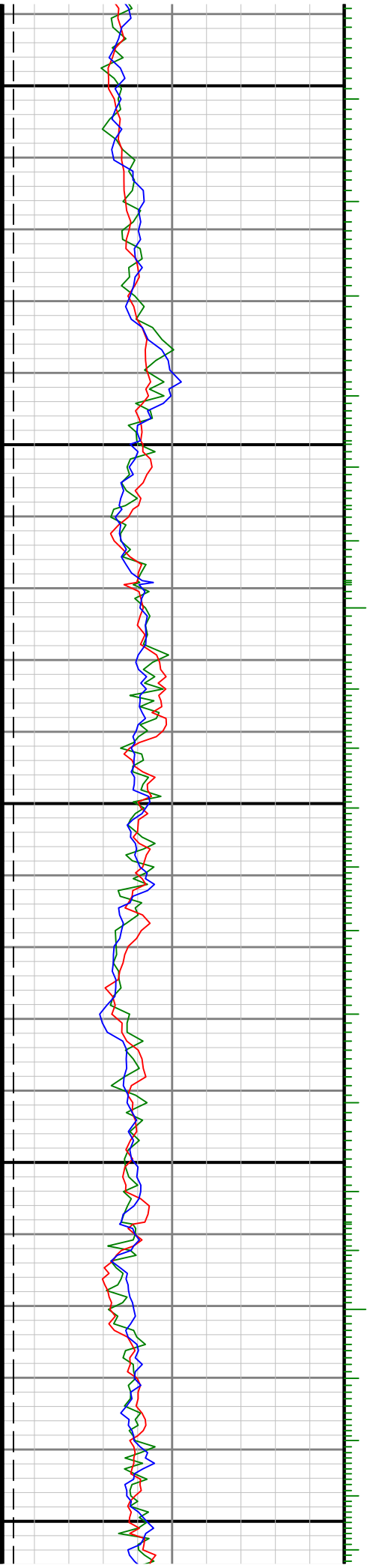




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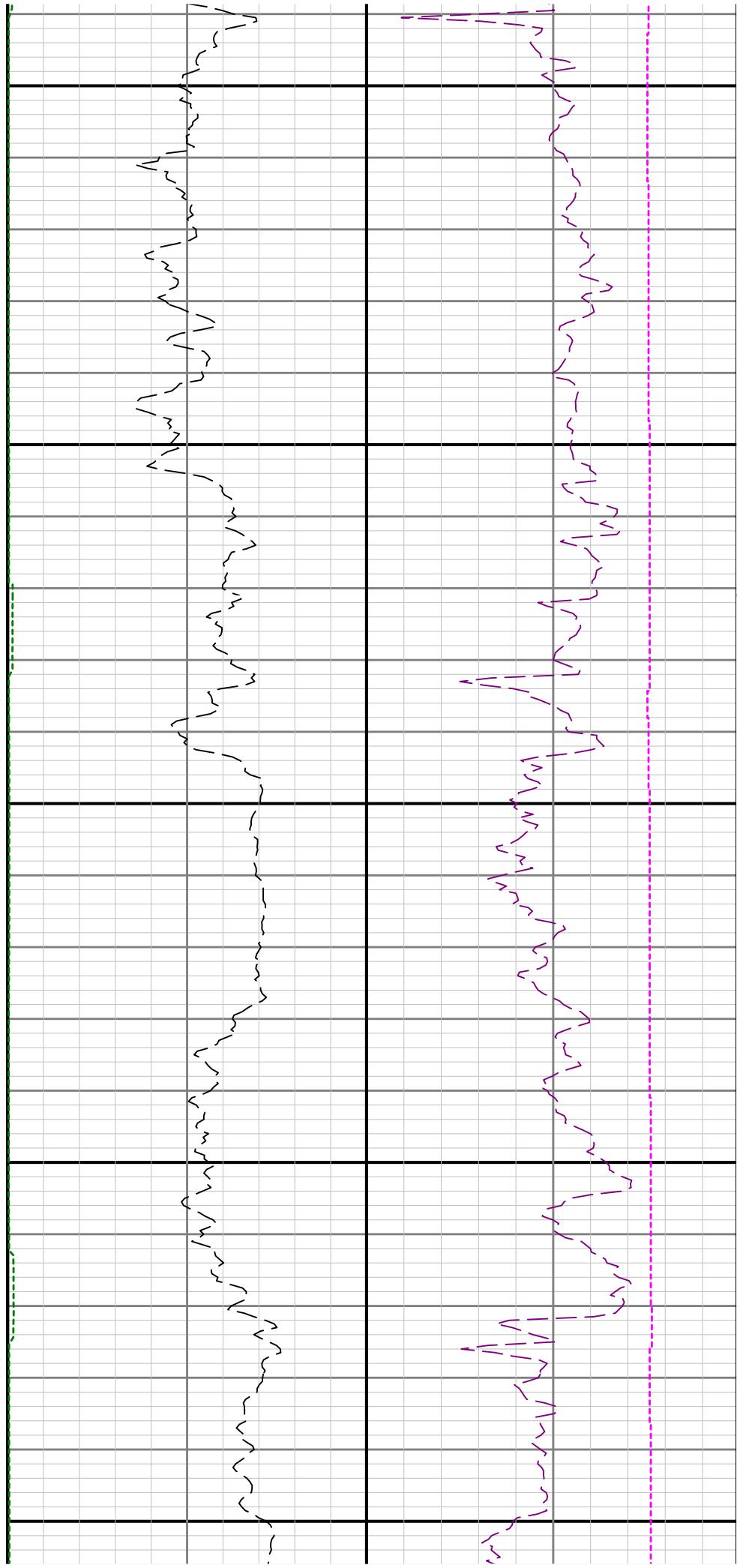
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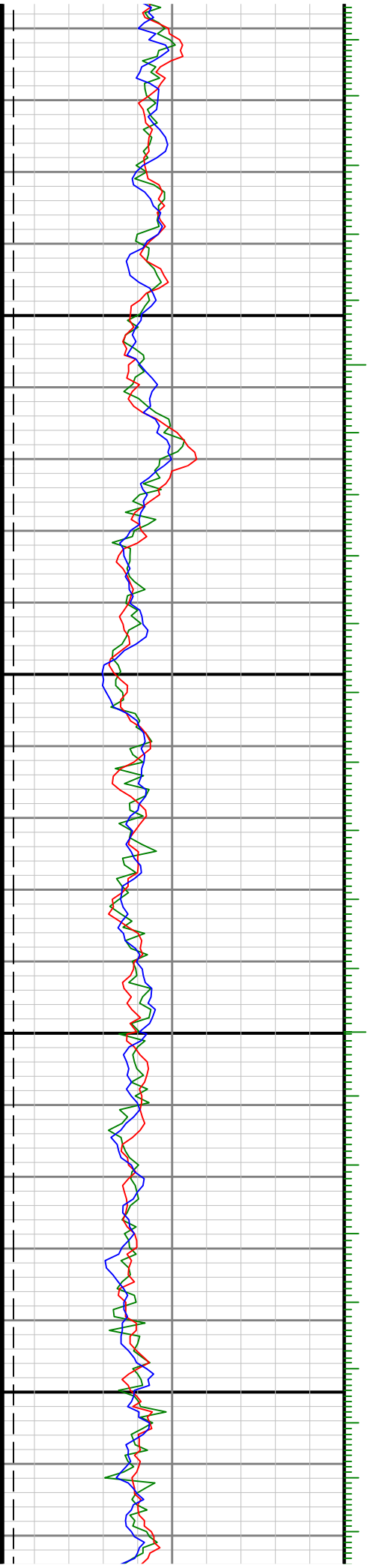




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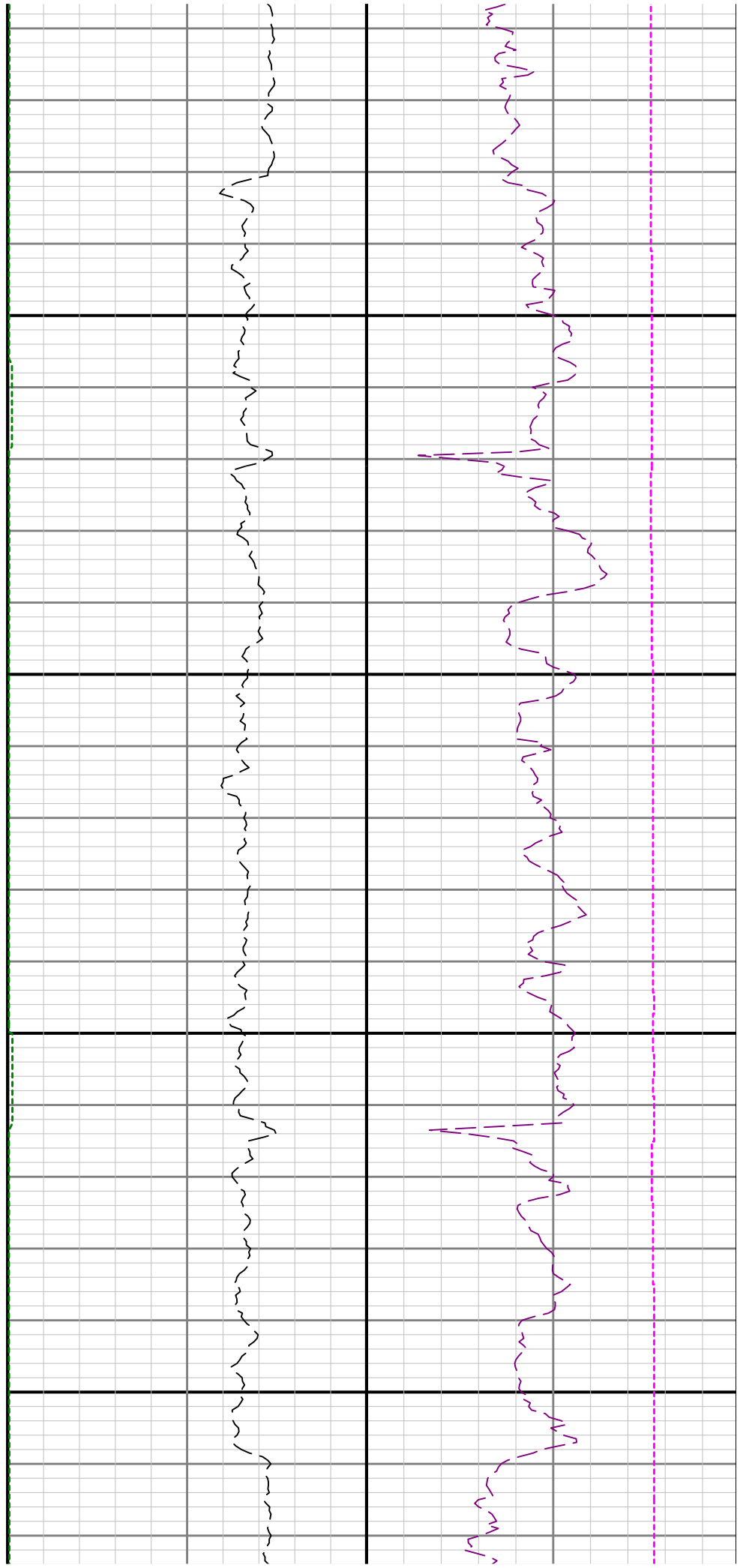
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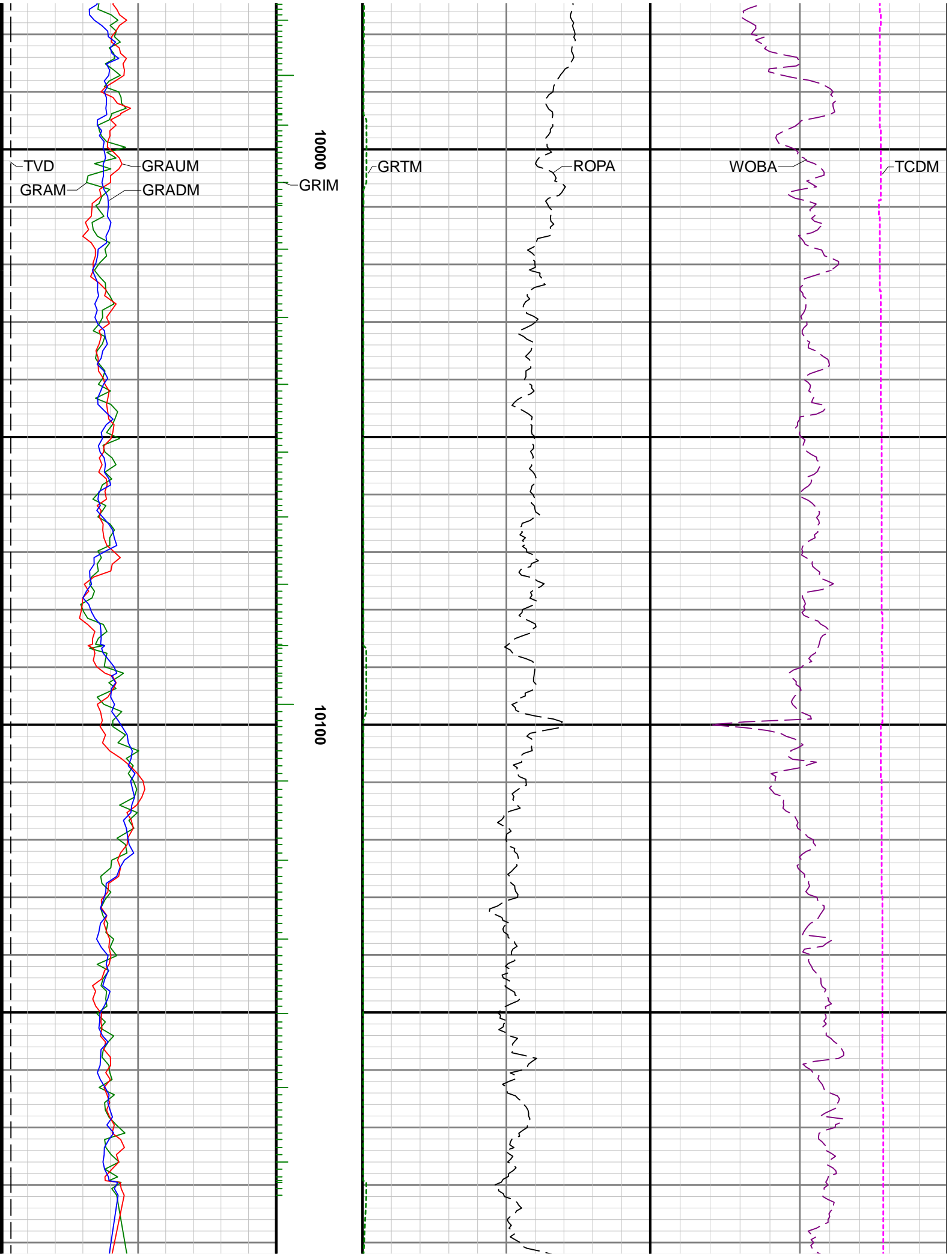


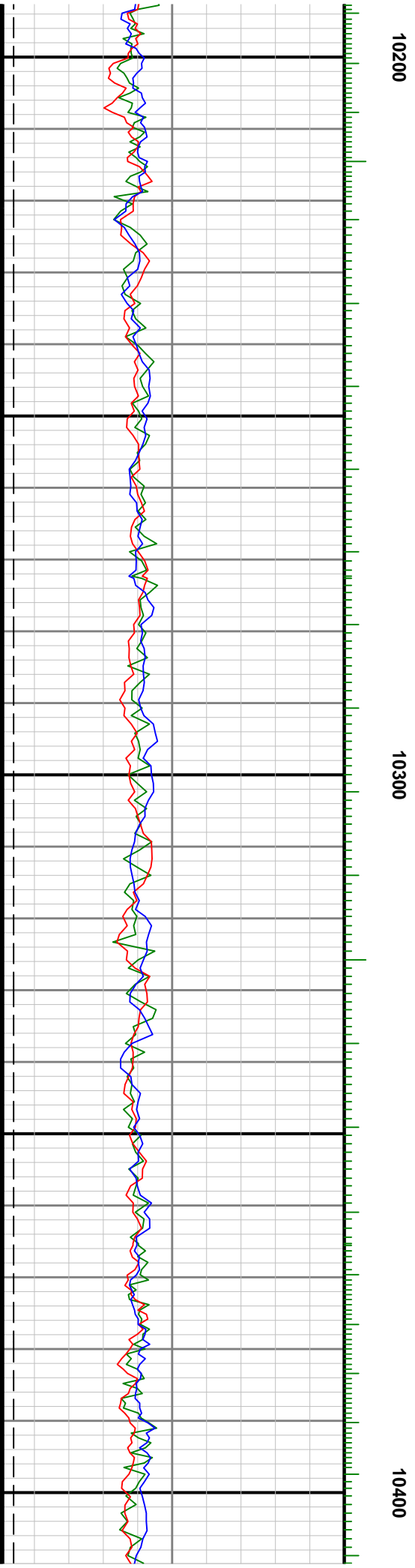
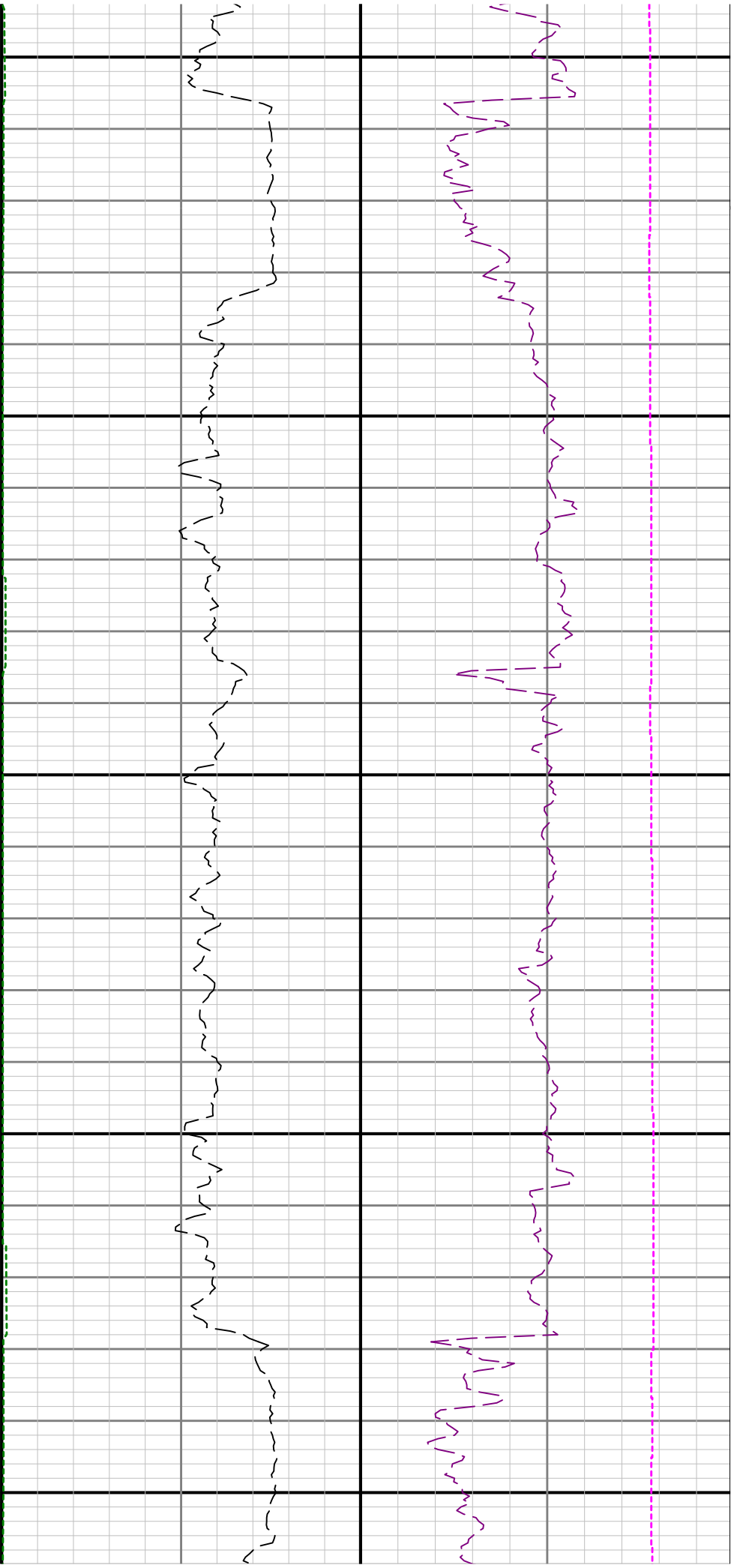


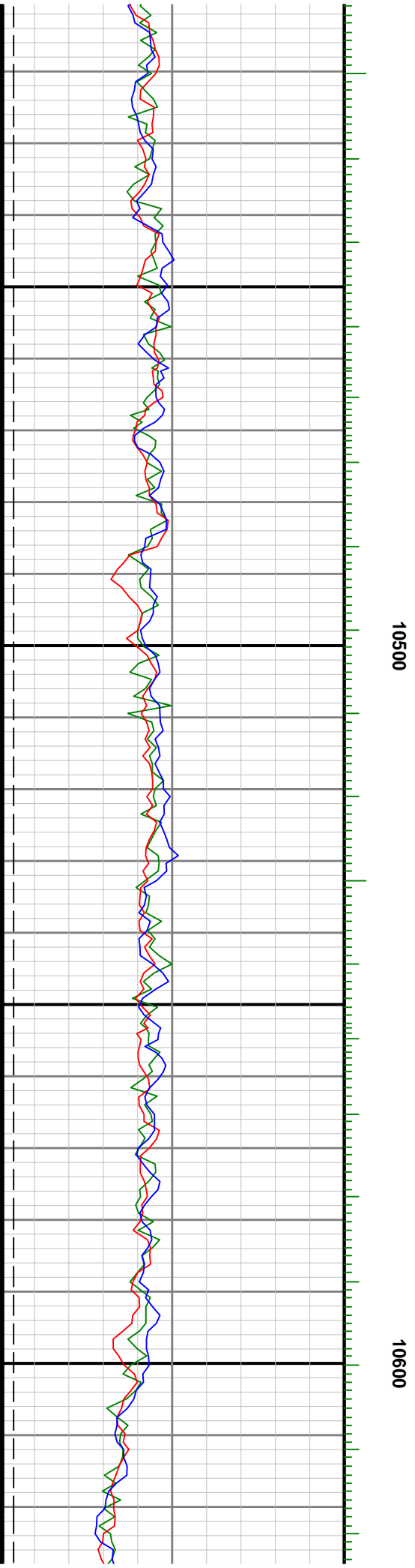
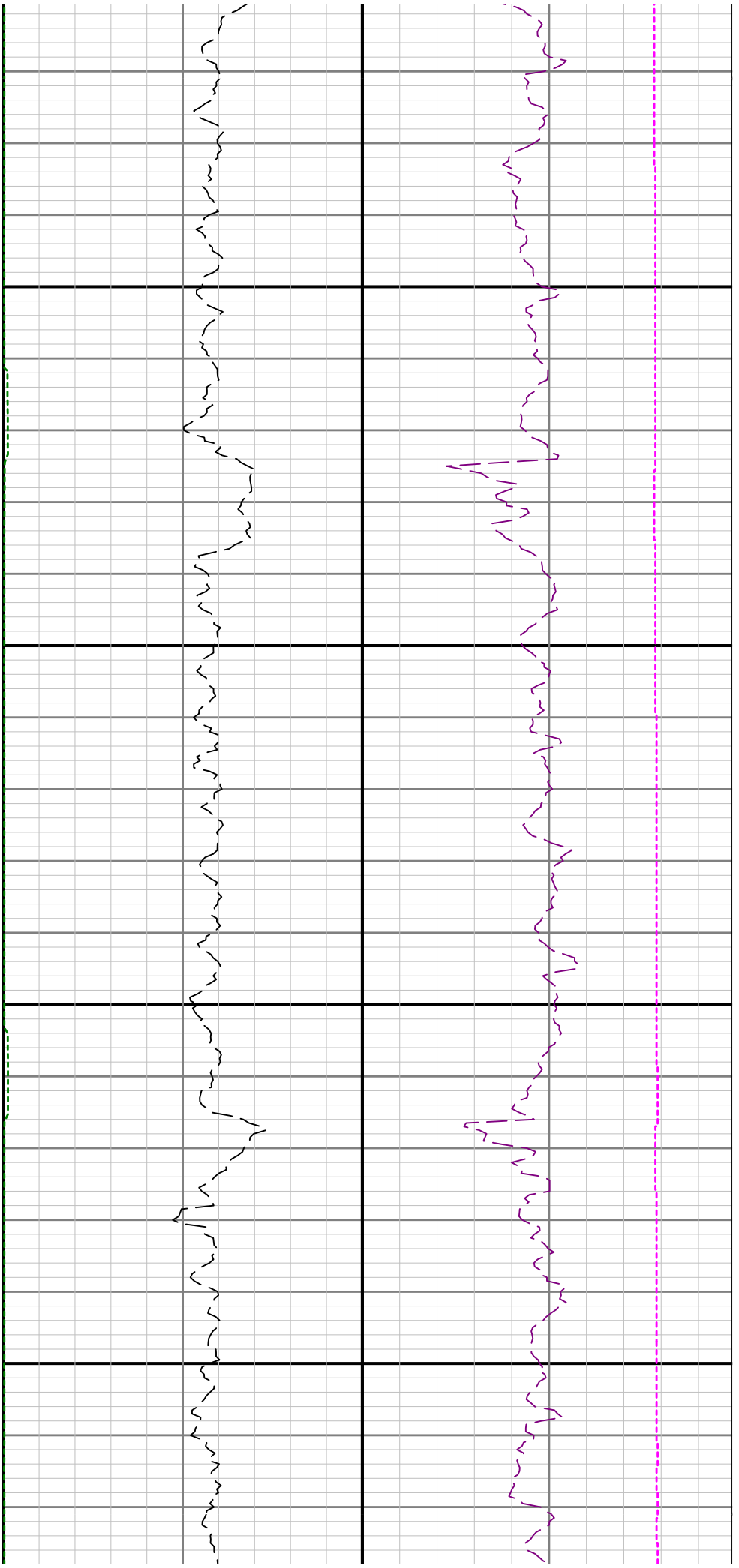
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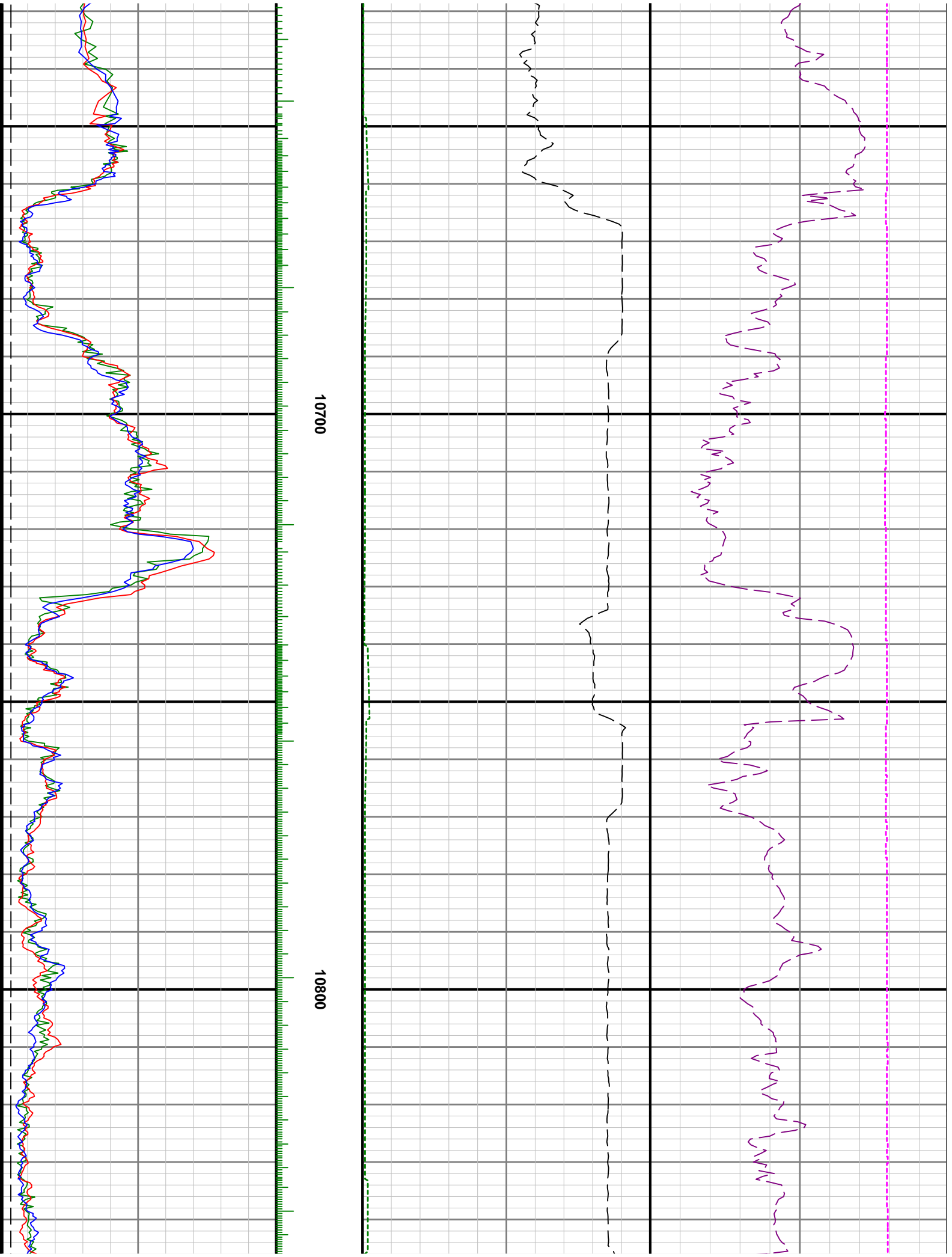
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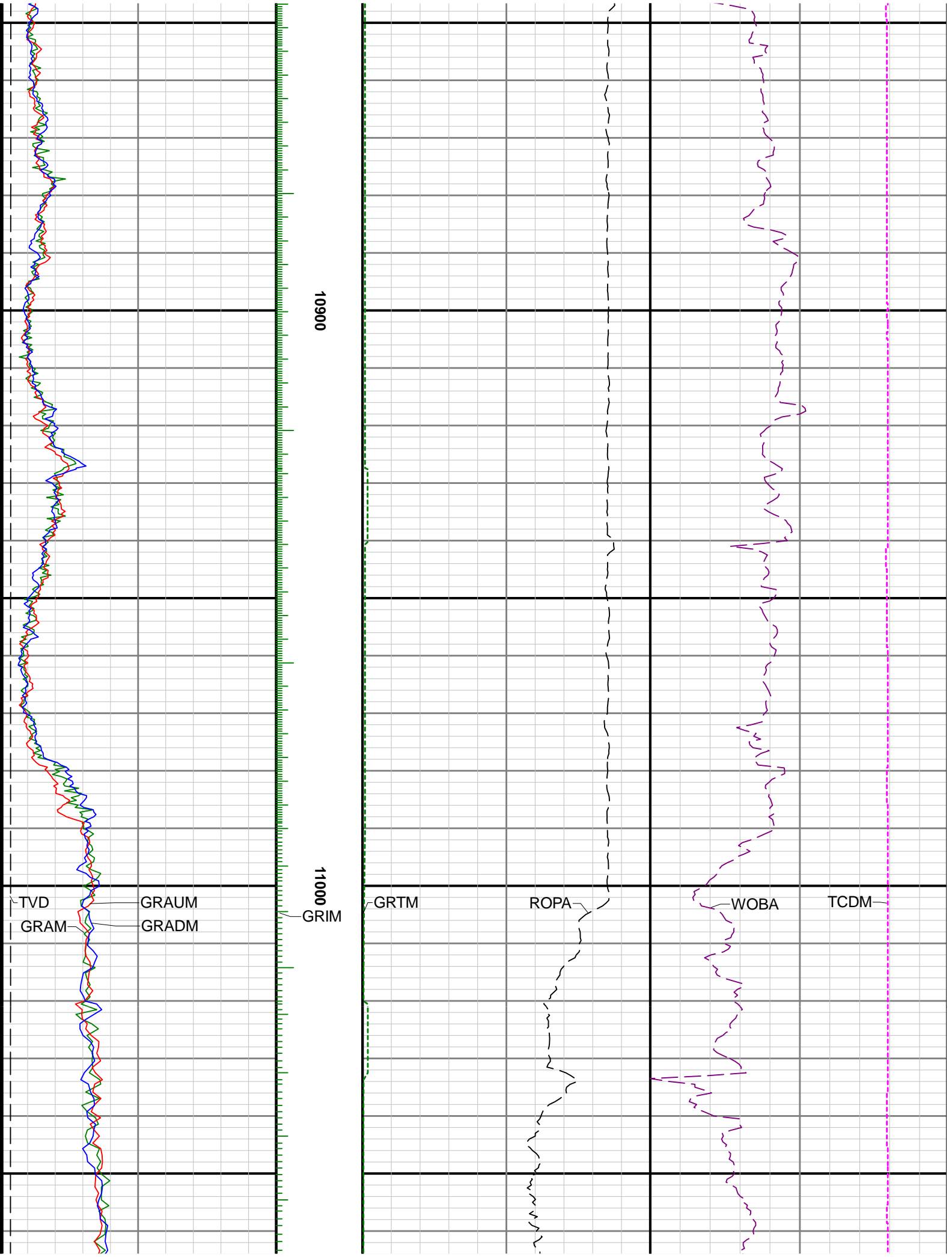


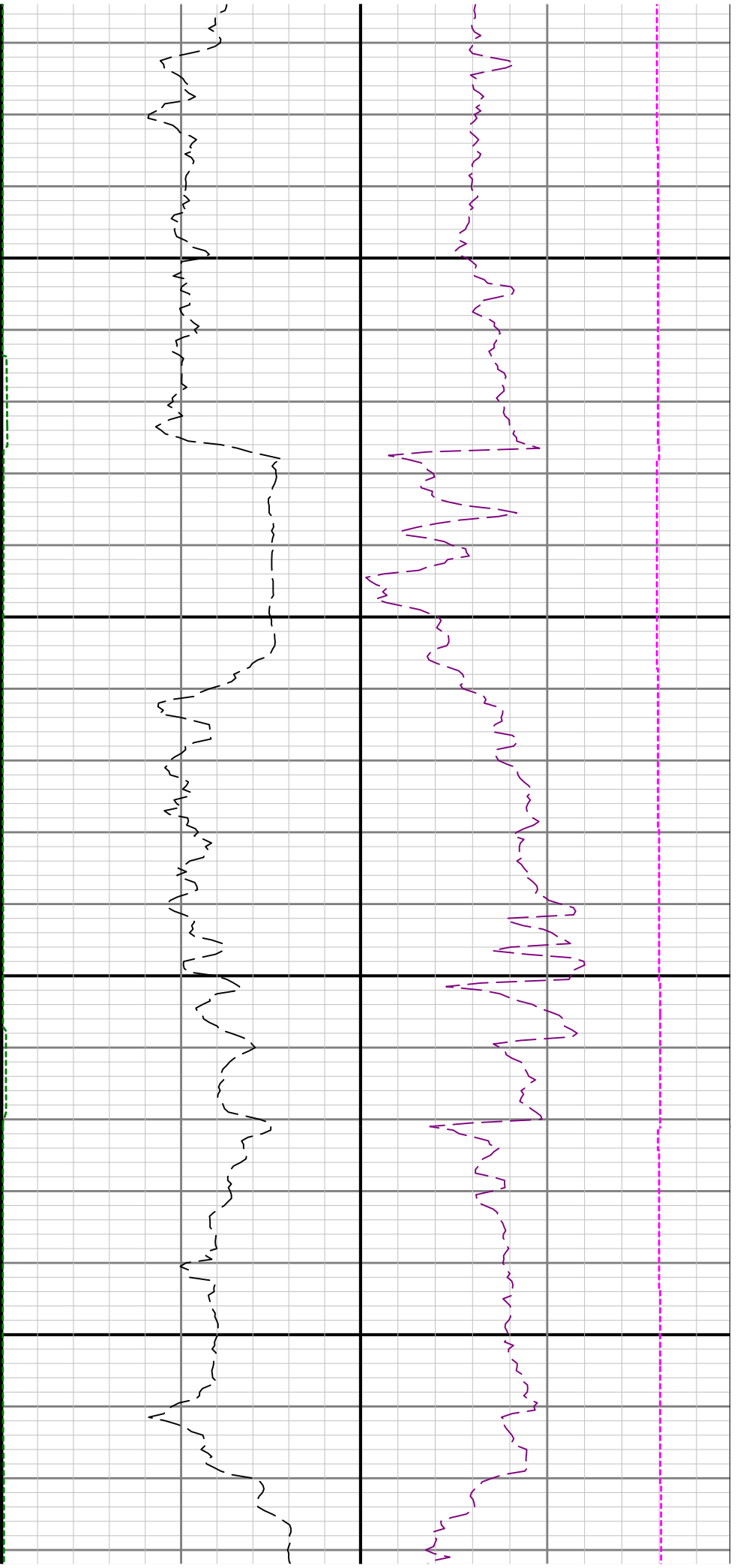






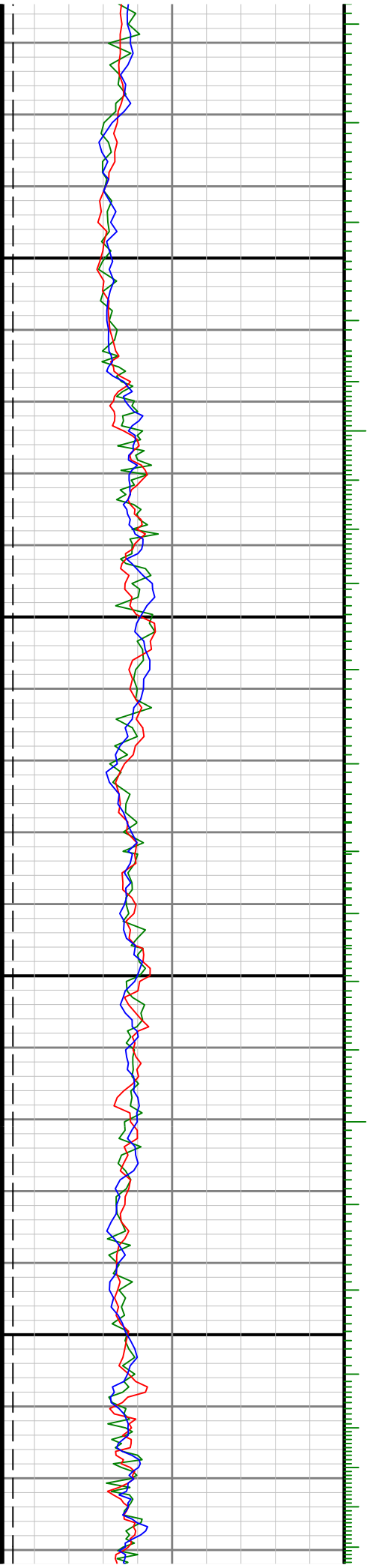


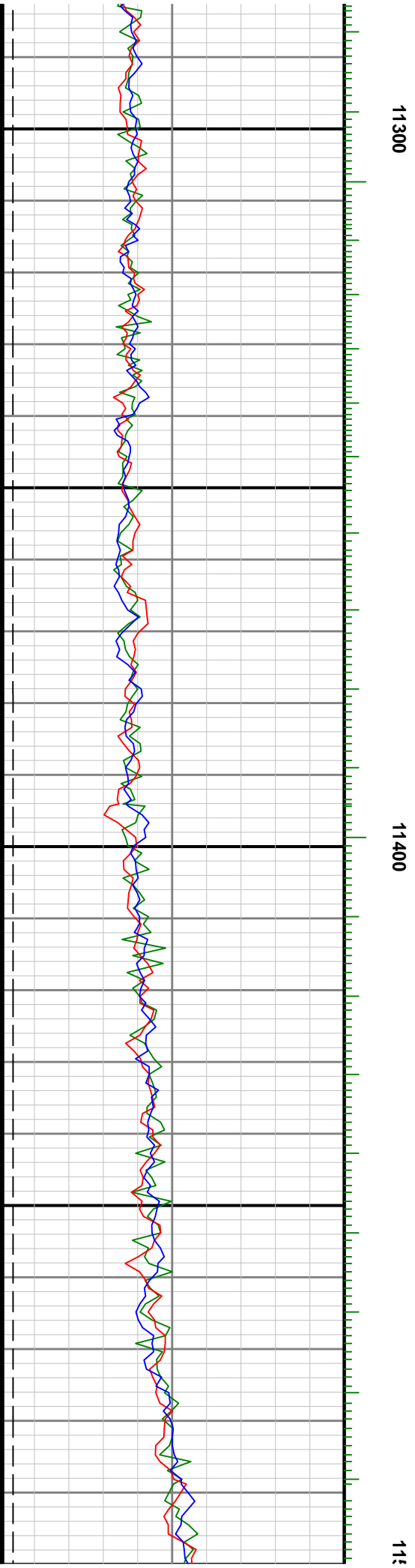
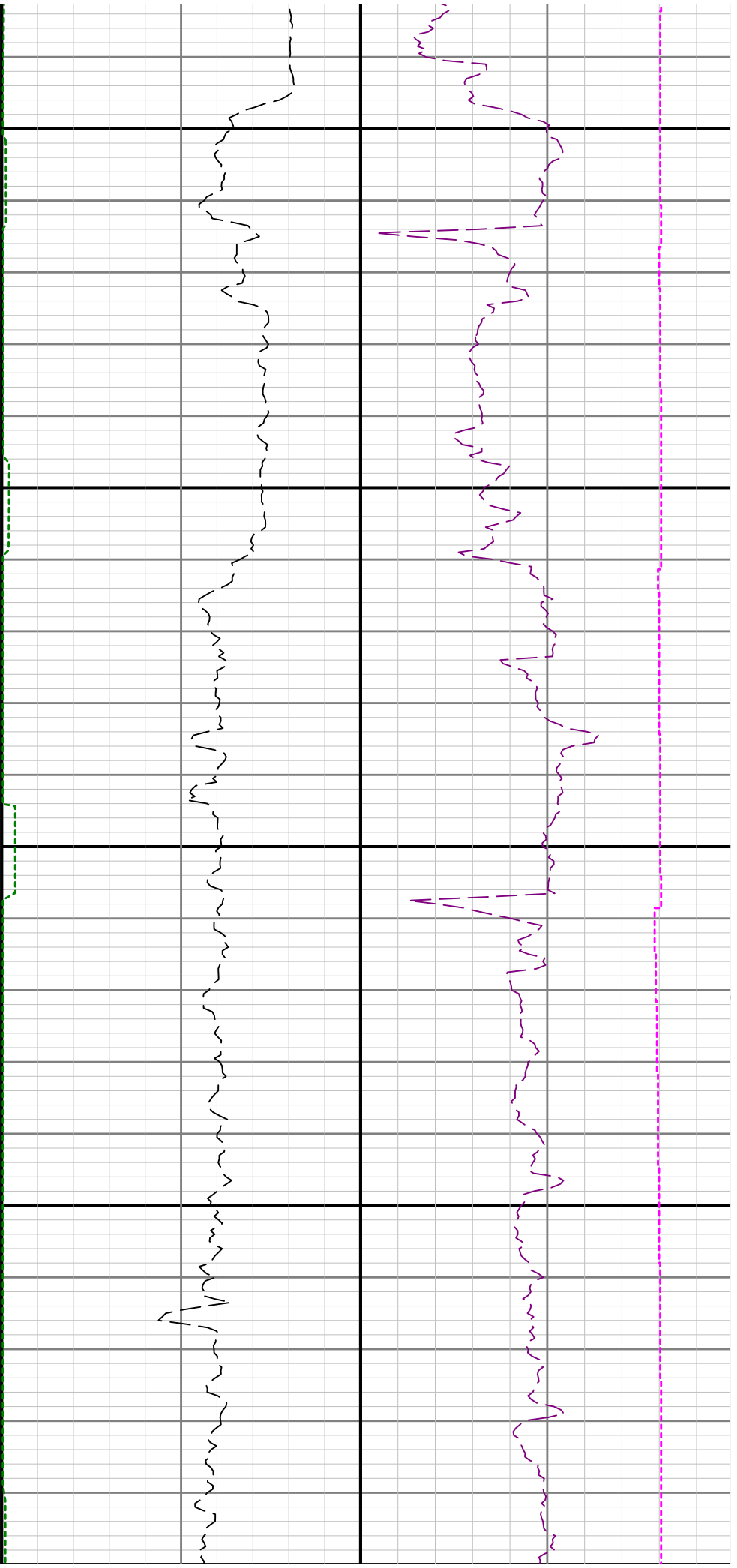


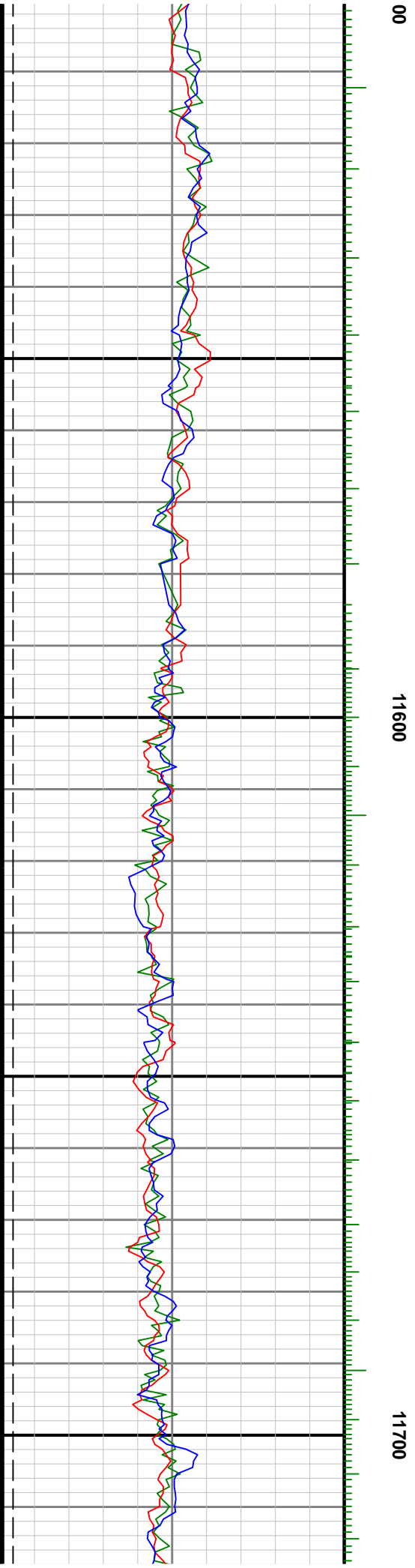
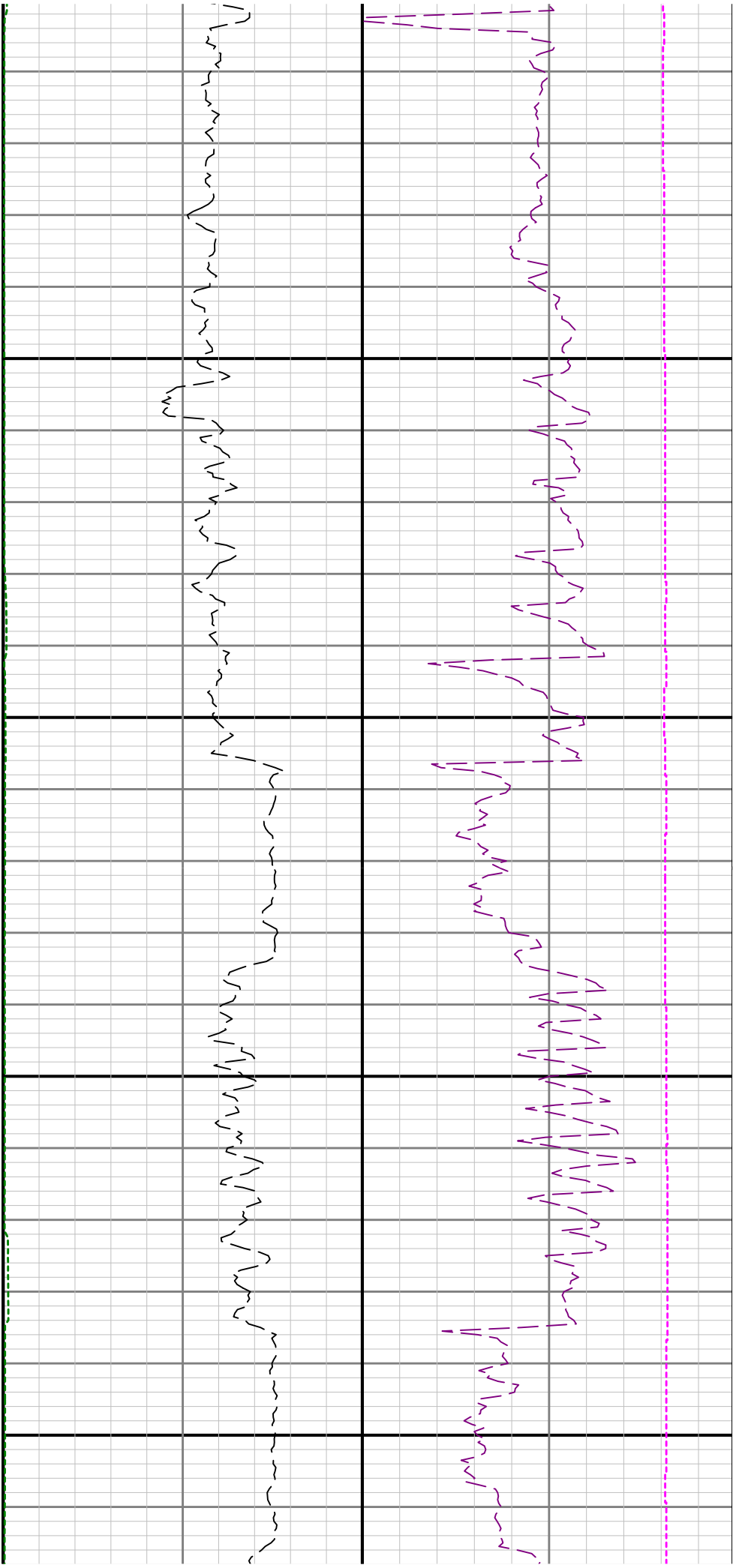


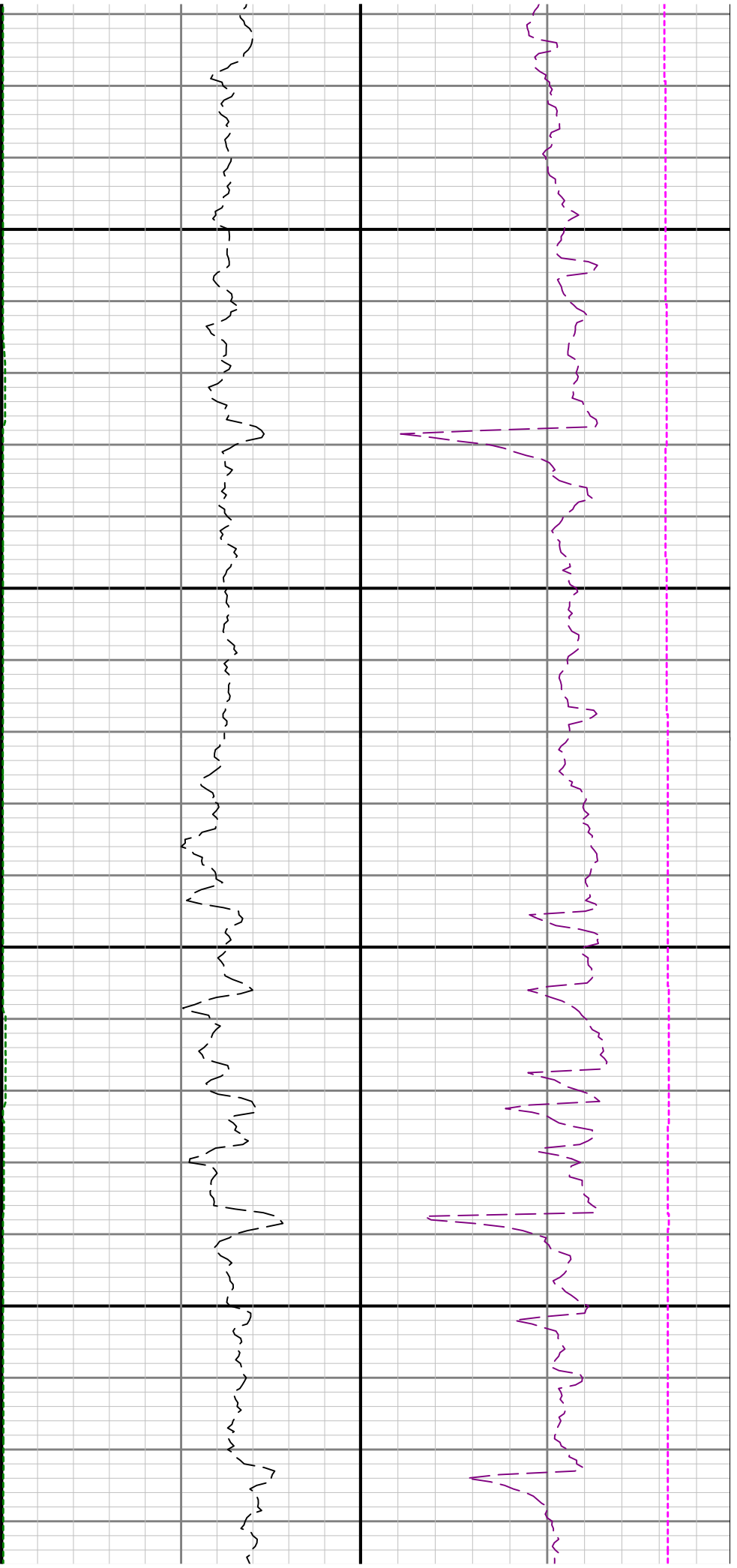
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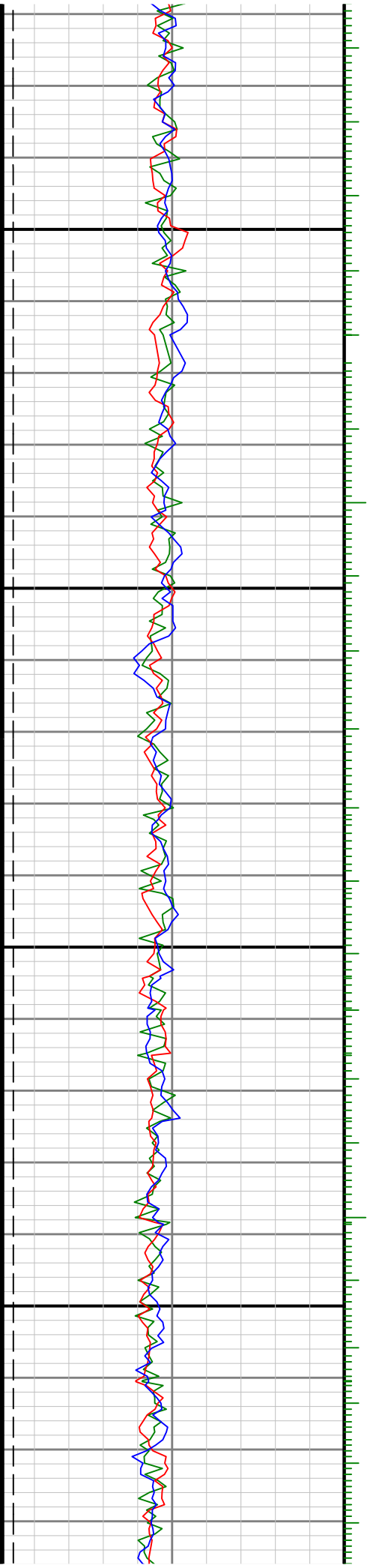


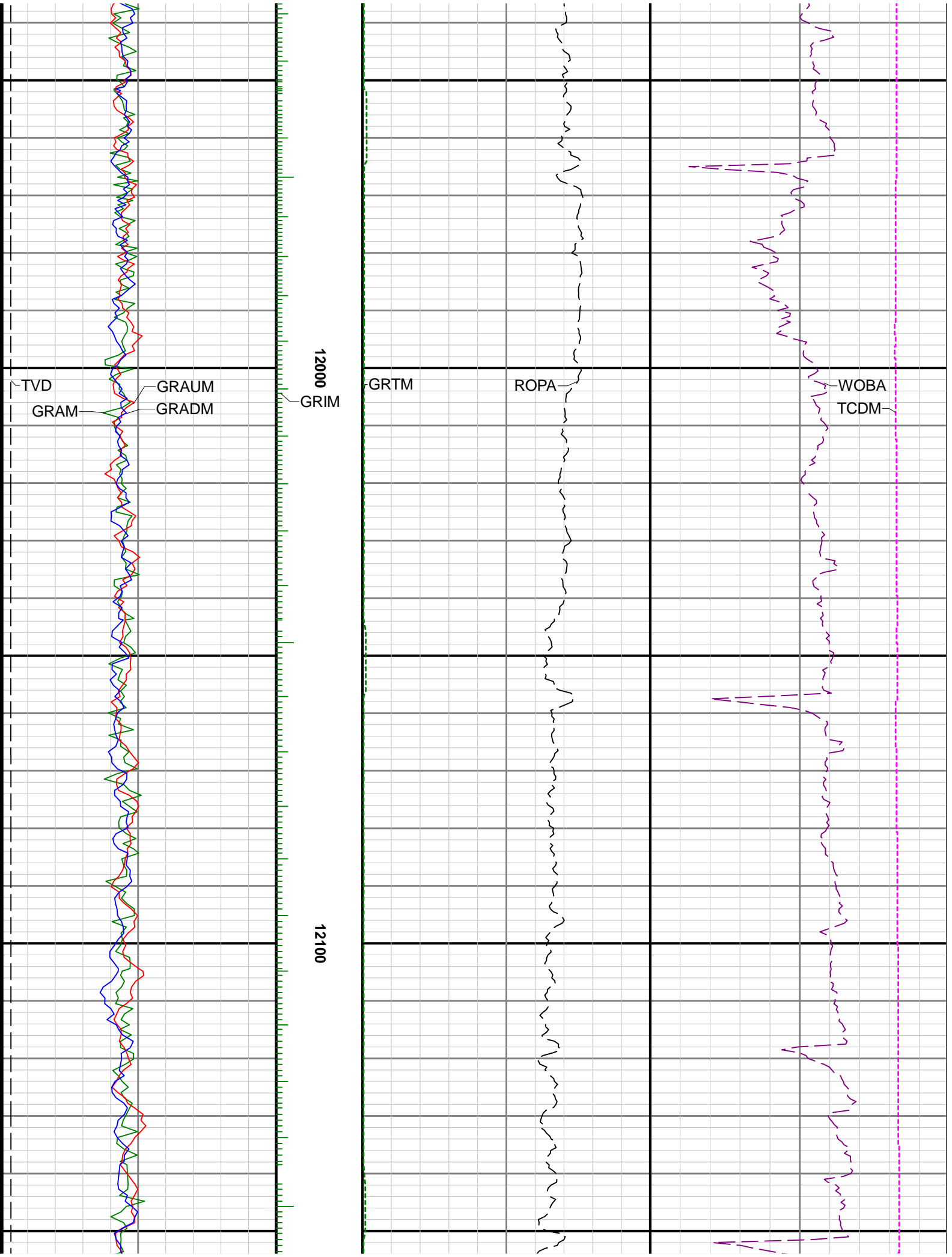


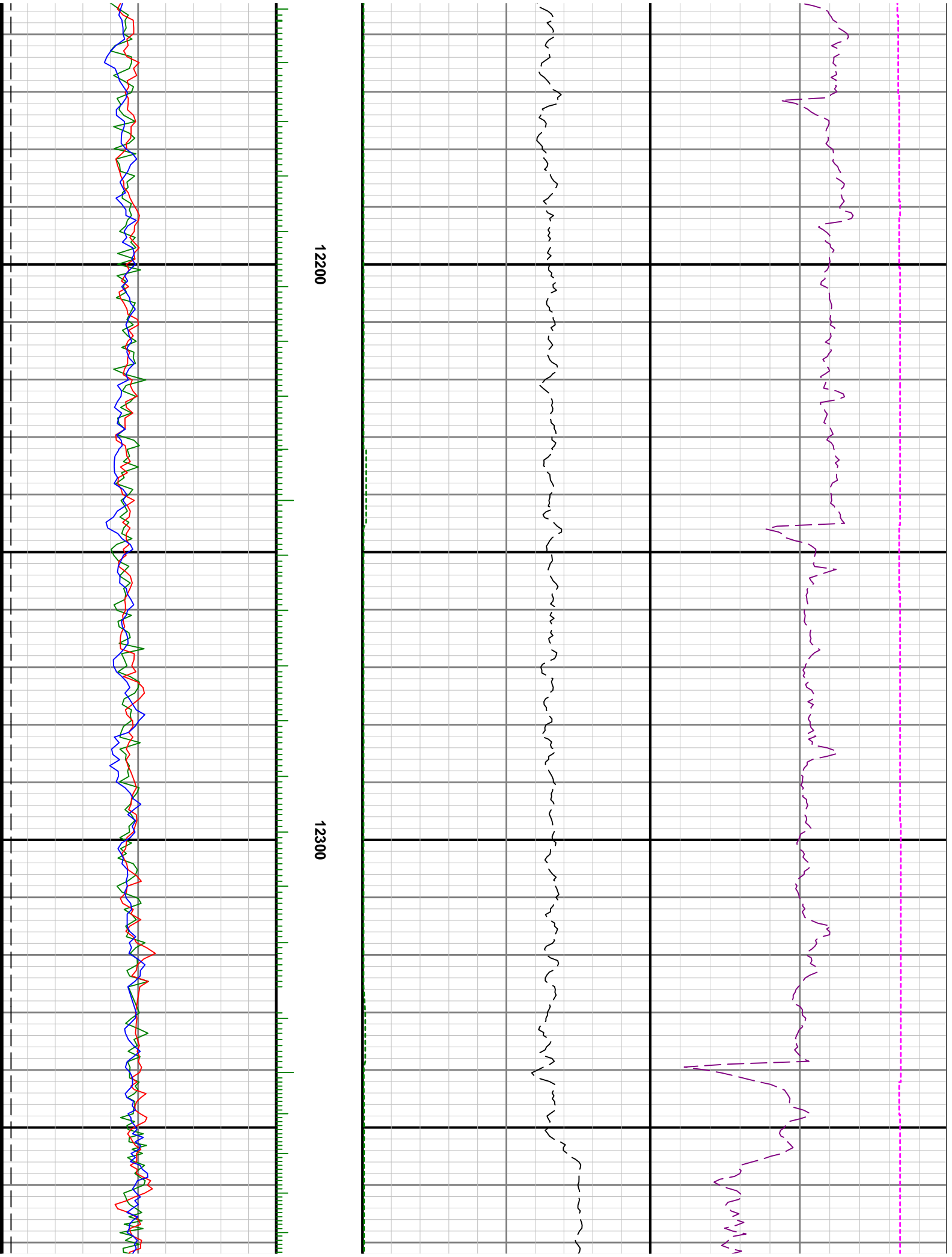


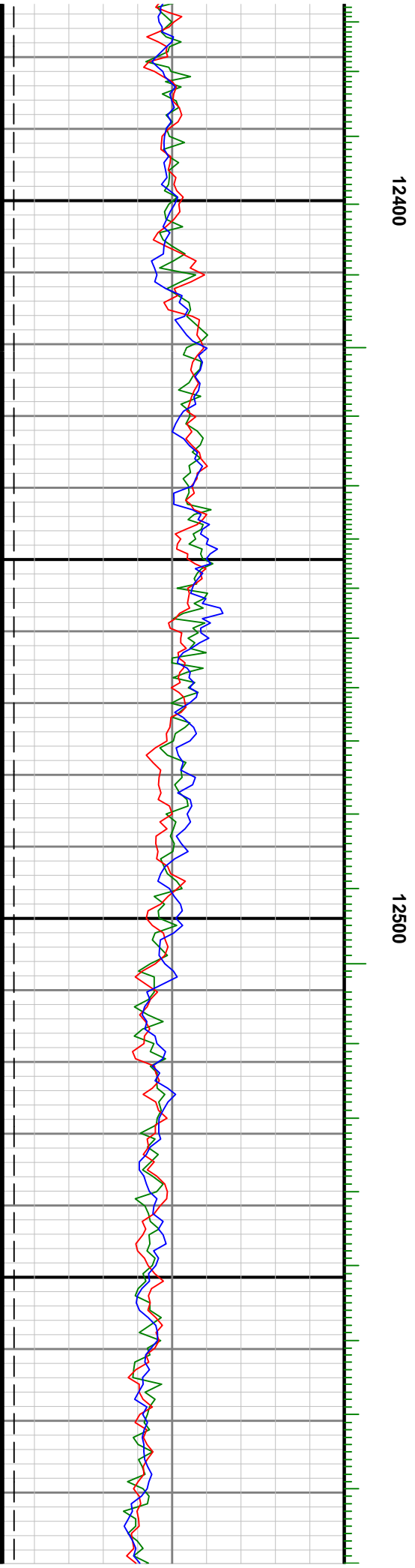
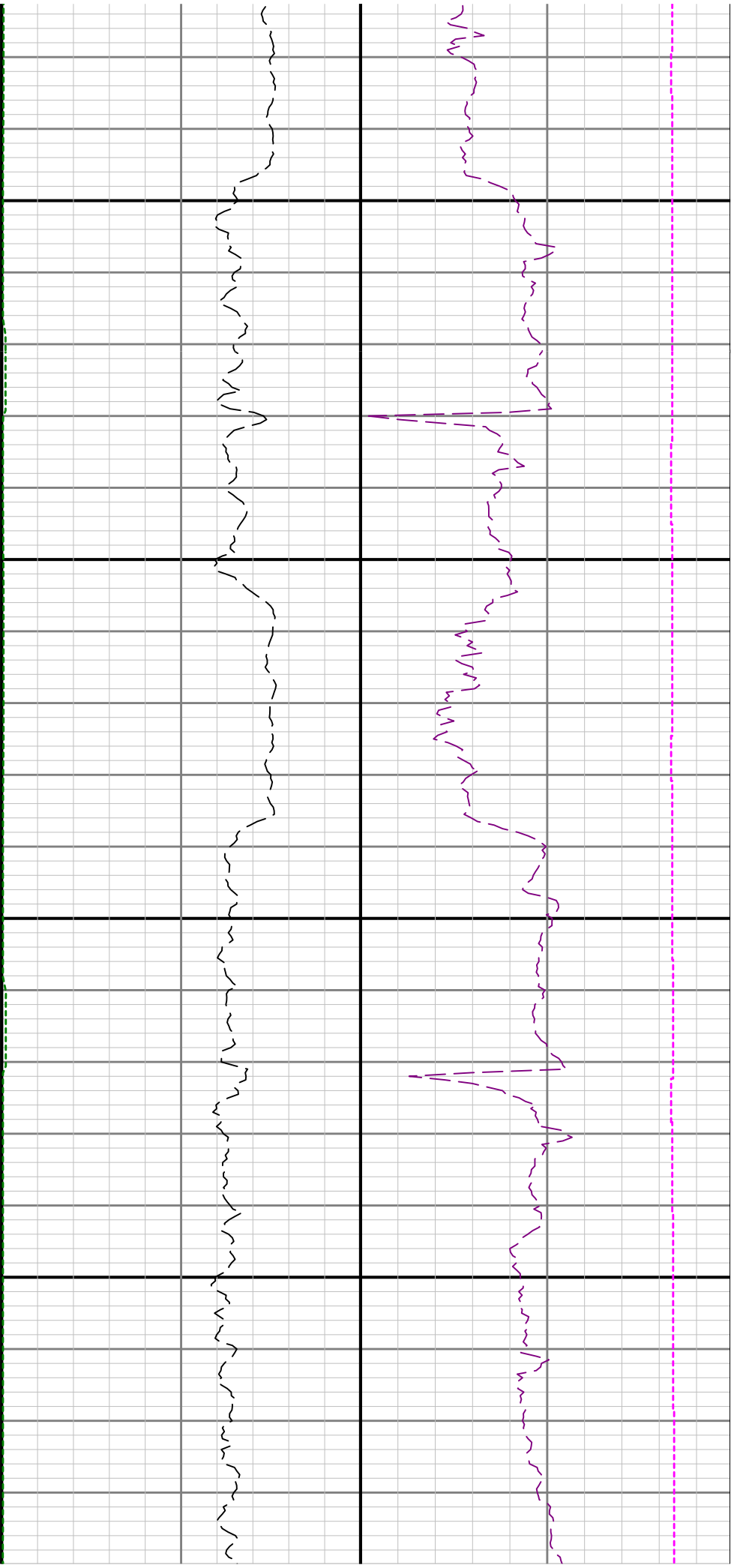
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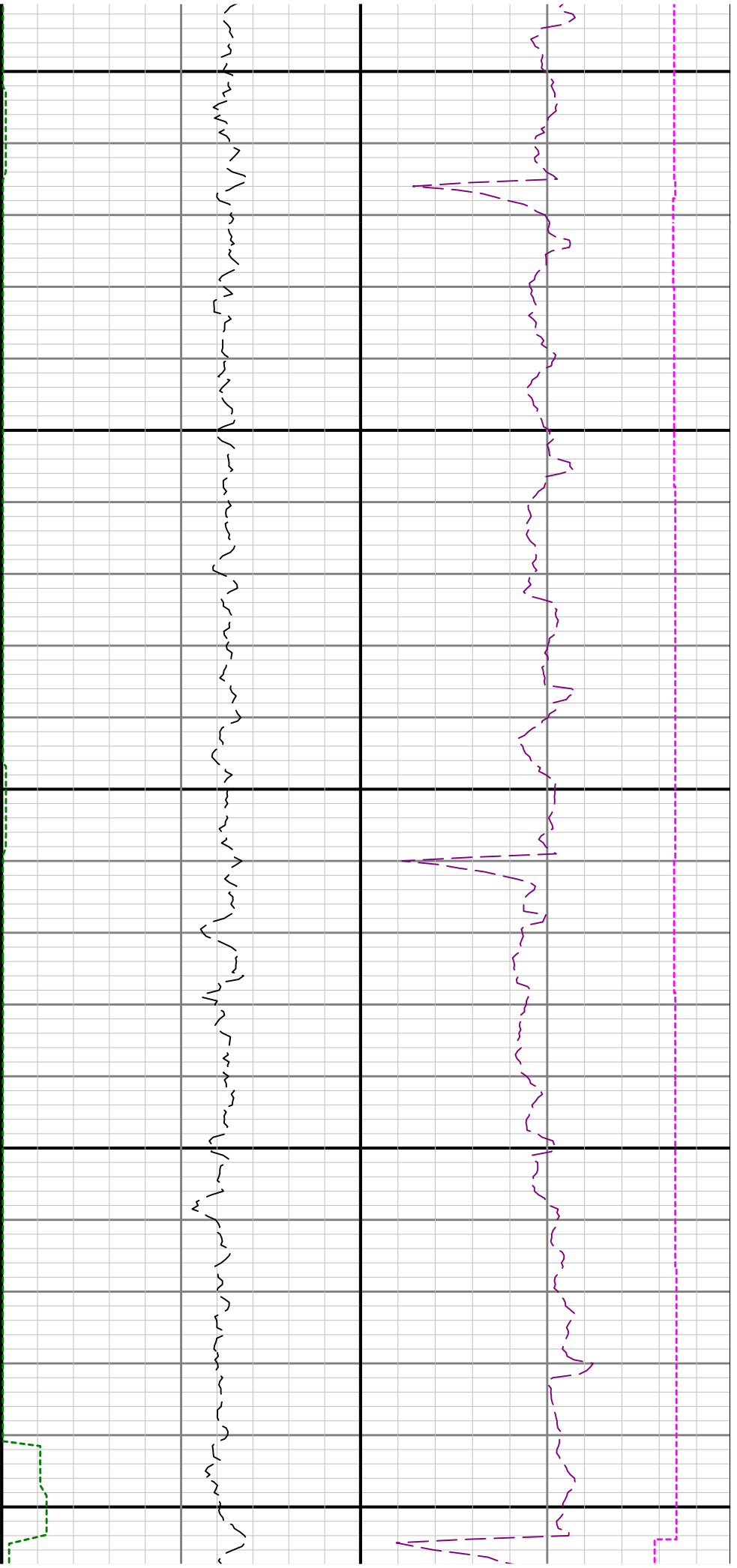
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12600

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12800

