

Crew								
Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite

Carlos Lopez	2017-05-12	2017-05-17						
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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+ (%)
2017-05-13 04:00	2	1745.00	Oil Based Mud	9.6	24	N/A	0.0	80/20	Suction	38351	0.00
2017-05-14 06:05	2	5165.97	Oil Based Mud	9.5	18	N/A	0.0	78/22	Suction	40000	0.00
2017-05-15 08:27	2	11093.67	Oil Based Mud	9.7	25	N/A	0.0	78/22	Suction	33557	0.00
2017-05-16 04:00	2	15237.43	Oil Based Mud	9.6	26	N/A	0.0	77/23	Suction	35475	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	ZAPS230921	Directional (mag)	11.85	59.43	8.000	3.250
1	Sensor Sub	ZAPS230921	VSS	11.85	59.43	8.000	3.250
1	Sensor Sub	ZAPS230921	Pressure	32.42	80.00	8.000	3.250
2	ATC_SU	14169980	Near Bit Inclination	5.93	6.73	7.000	4.330
2	ATC_SU	14169980	Near Bit VSS	5.93	6.73	7.000	4.330
2	ATC_MWD	14179564	Gamma (single)	2.76	12.90	7.000	3.250
2	ATC_MWD	14179564	Directional (mag)	12.27	22.41	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 no 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 service (Directional-Only) behind a 13 1/2 inch bit and steerable assembly from 25 to 1766 feet MD (25 to 1748 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 1766 to 15343 feet MD (1748 to 7005 feet TVD).
4	Gamma Ray Apparent curve (GRAM) is presented 0 to 300 API per customer request.


### Remarks

Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	15338.00	8.500	2	The interval from 15330 to 15343 feet MD (7005 feet TVD) was not logged due to sensor to bit at well TD.

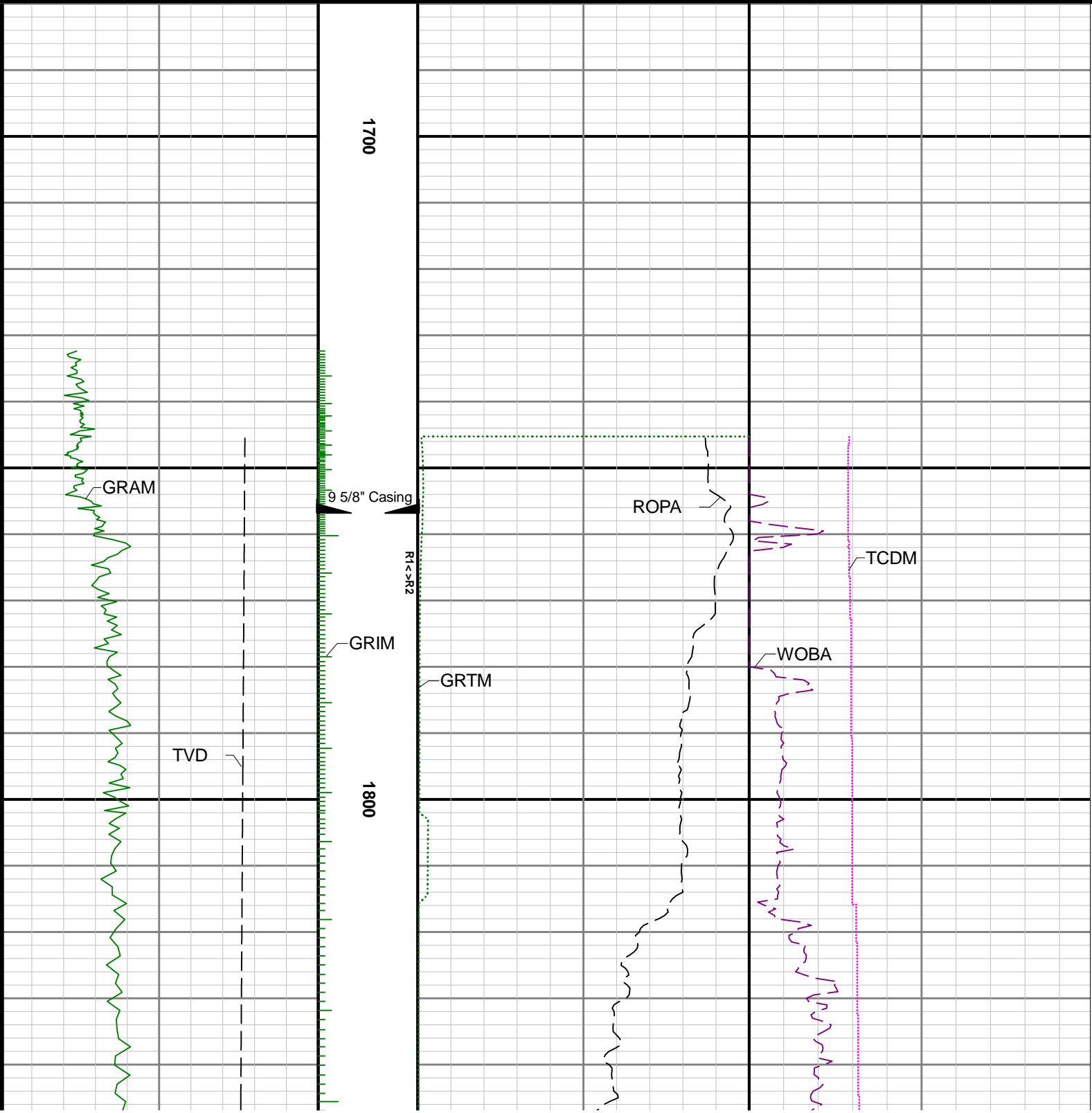
### Curve Mnemonics

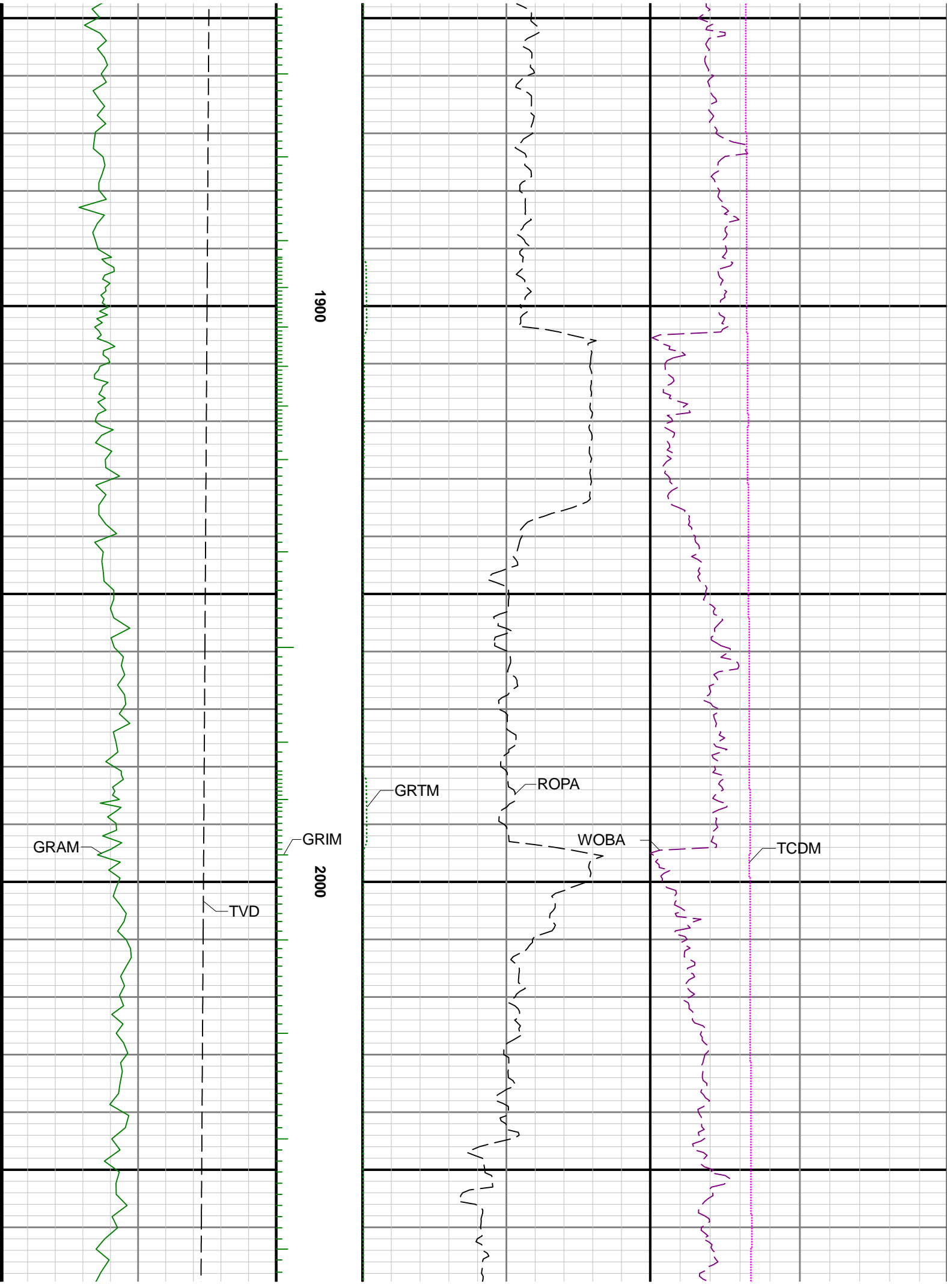
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent 0.5 ft Average	API
GRIM	Gamma Ray Data Point Indicator	unitless

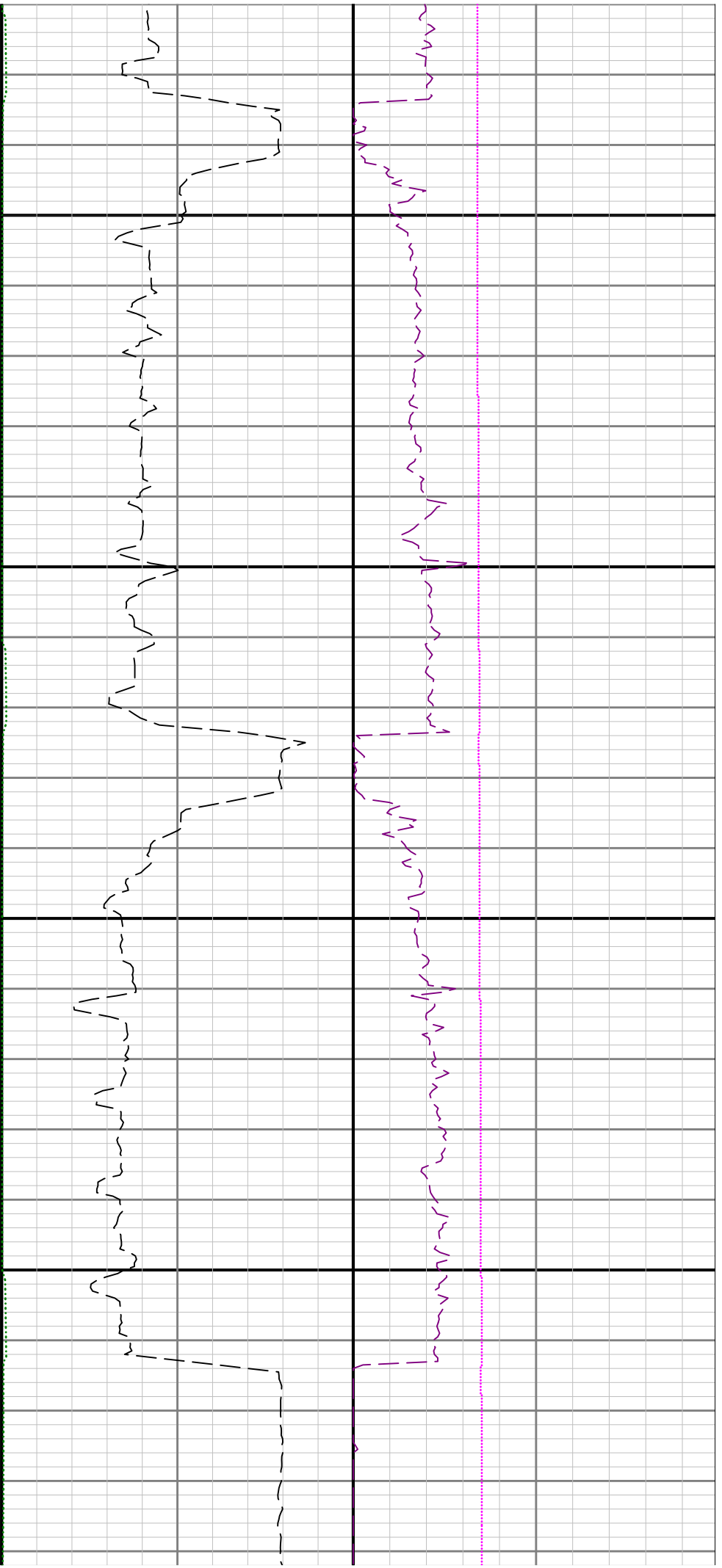
GRTM	Gamma Time Since Drilled	min
TCDM	Downhole Temperature	degF

<div> <div>  </div> <div> <div>Company</div> <div>Well</div> <div>Interval</div> <div>Created</div> </div> </div>	Synergy Resources Corporation		
	Hood 11N-22B-M		
	Date From:	2017-05-13 06:17:51	Top: 1732.00
	Date To:	2017-05-16 06:56:14	Bottom: 15330.00
		2017-05-16 15:54	

Gamma Ray - Apparent 0.5 ft Average GRAM	MD 1:240 feet	Gamma Time Since Drilled GRTM	Weight On Bit, Average 1 ft Average WOBA
0 300		0 600	0 50
API		min	klb
True Vertical Depth TVD		Depth Averaged ROP 3 ft Average ROPA	Downhole Temperature TCDM
7500 0		1200 0	0 300
ft		ft/h	degF

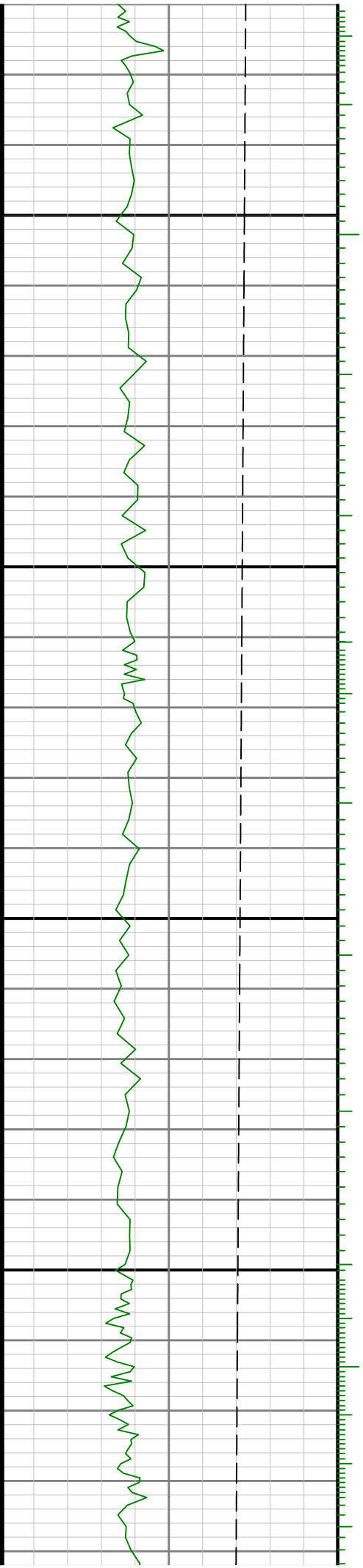


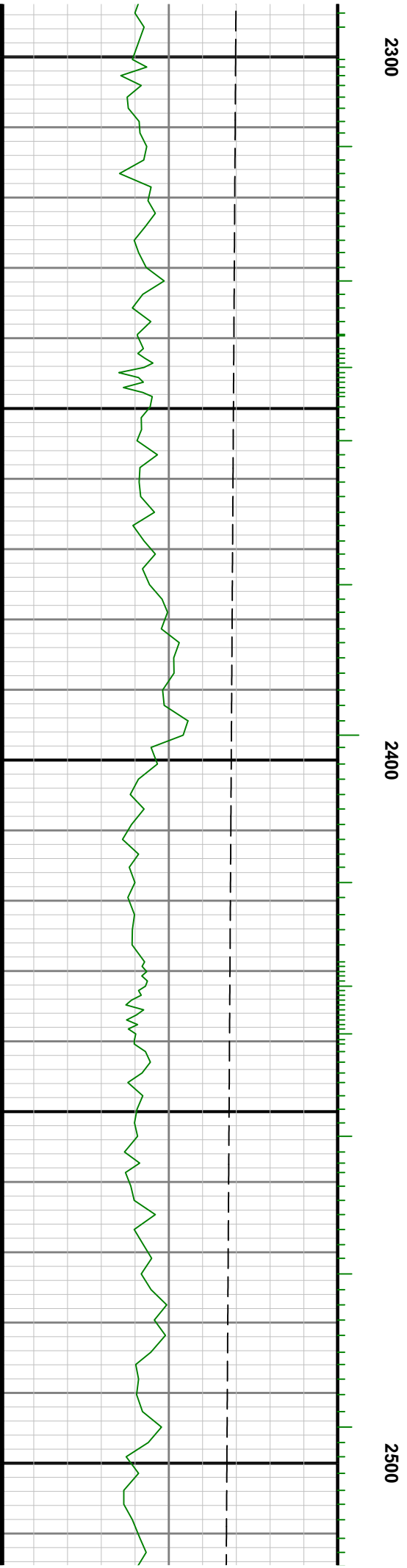
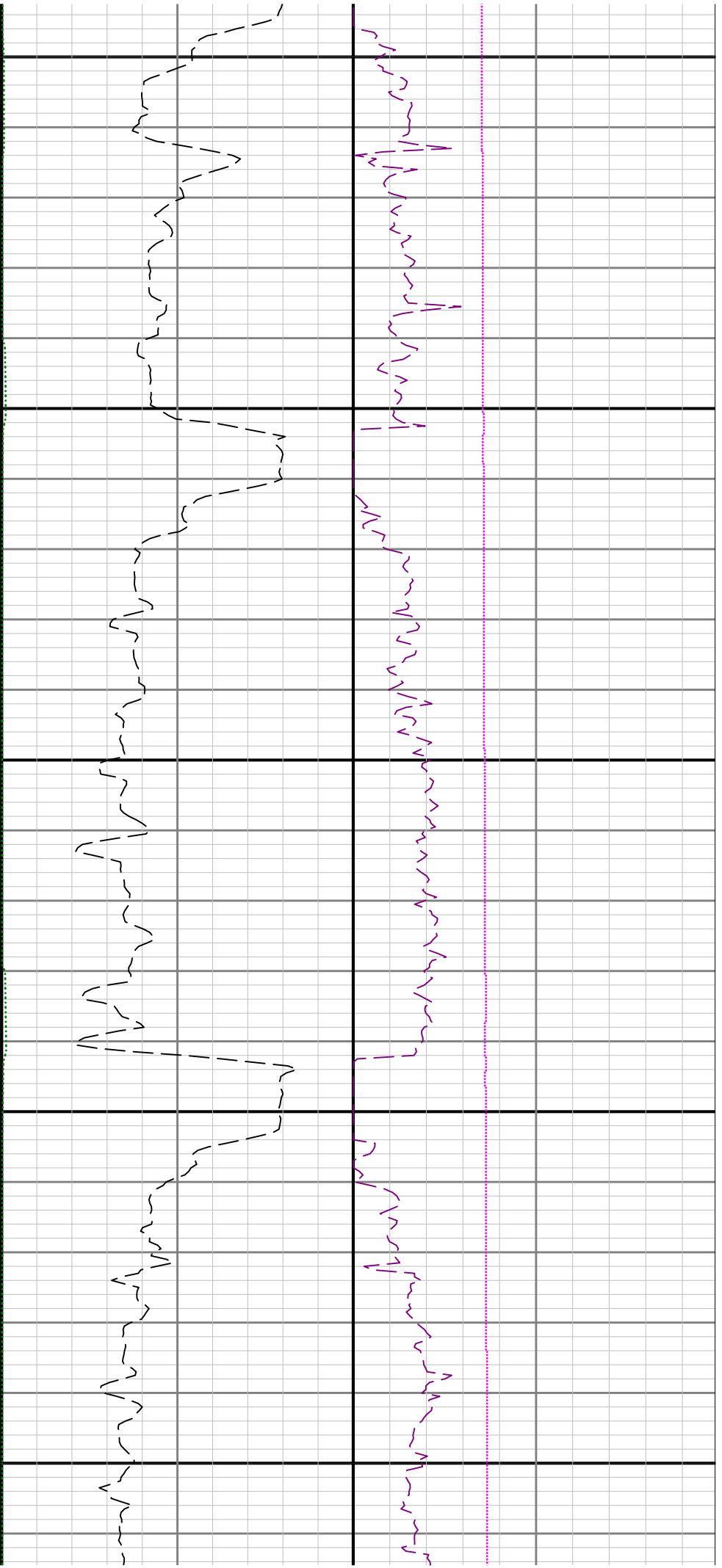


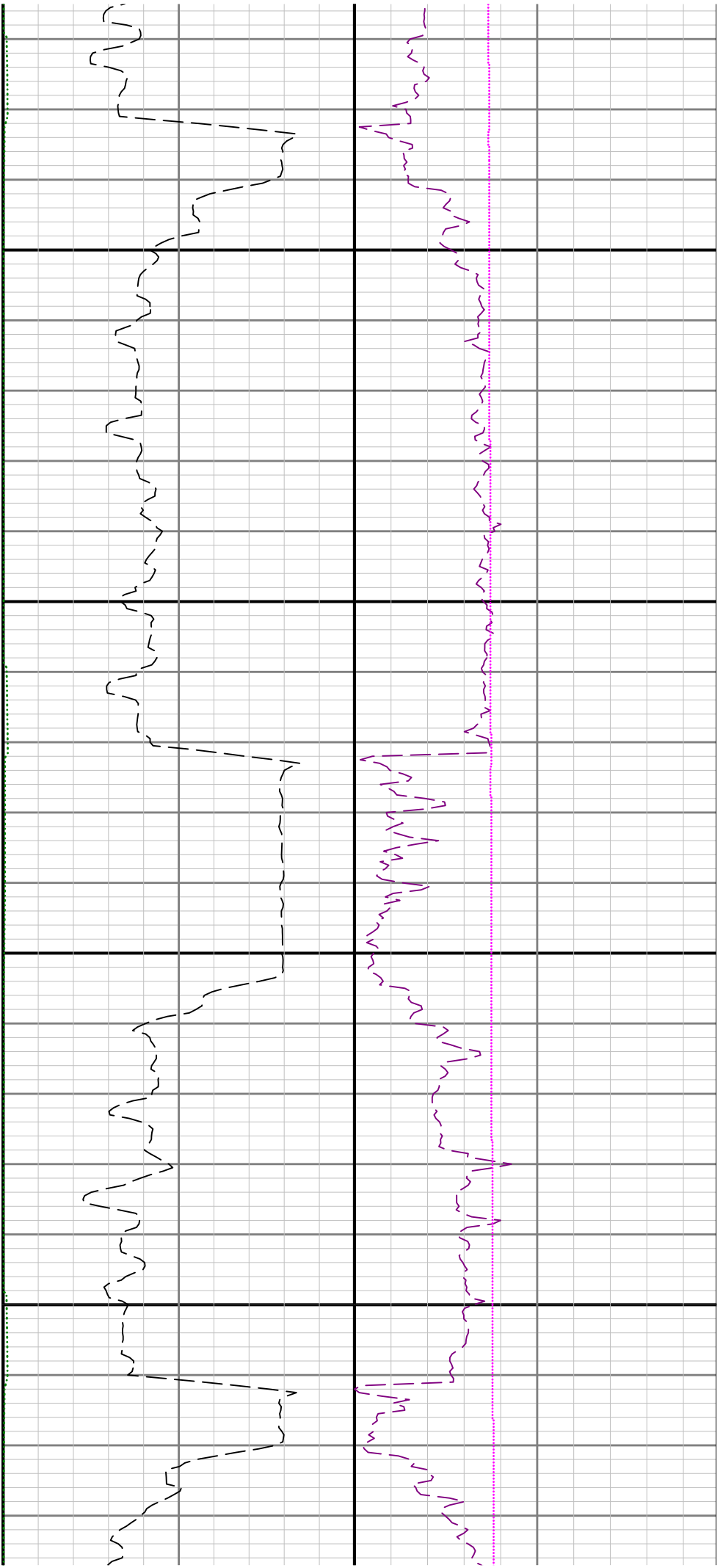


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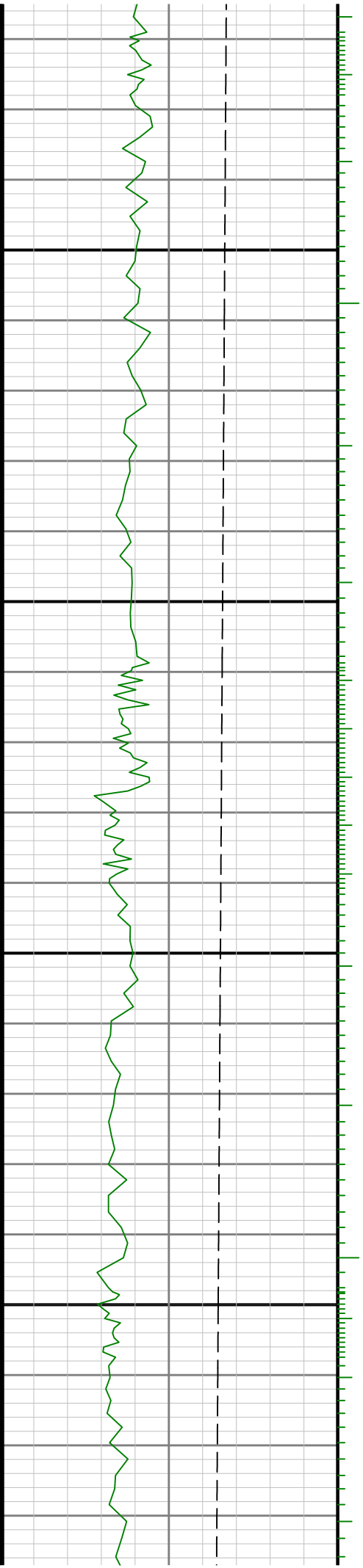


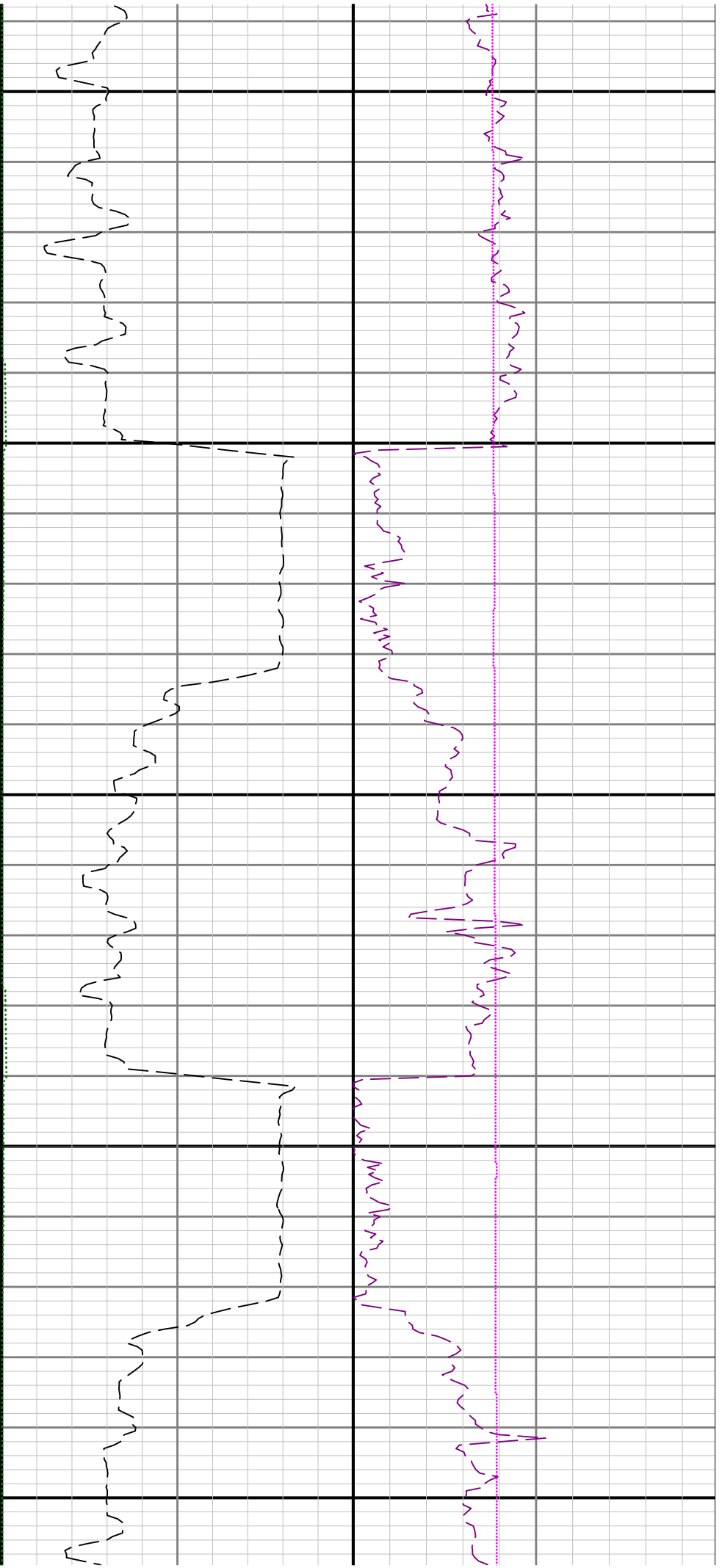




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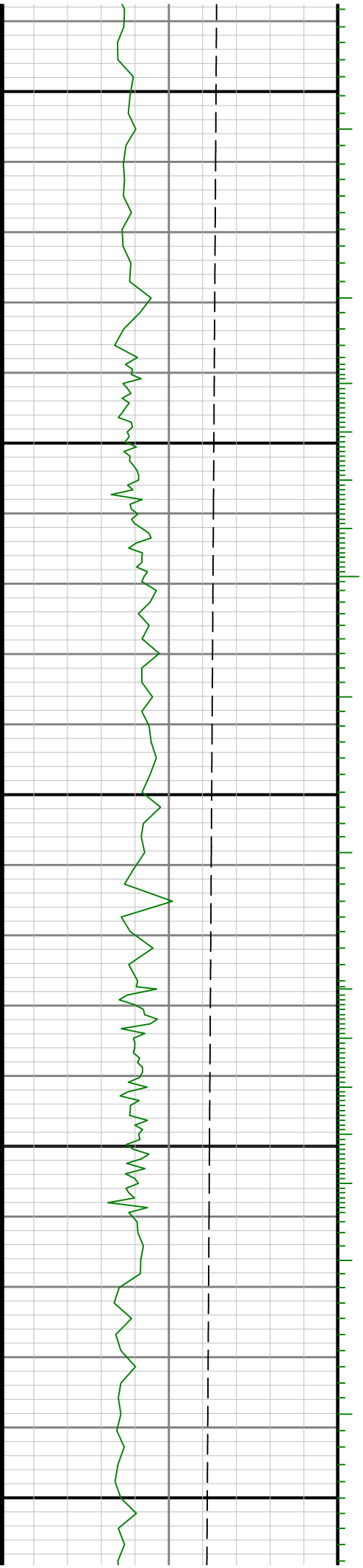
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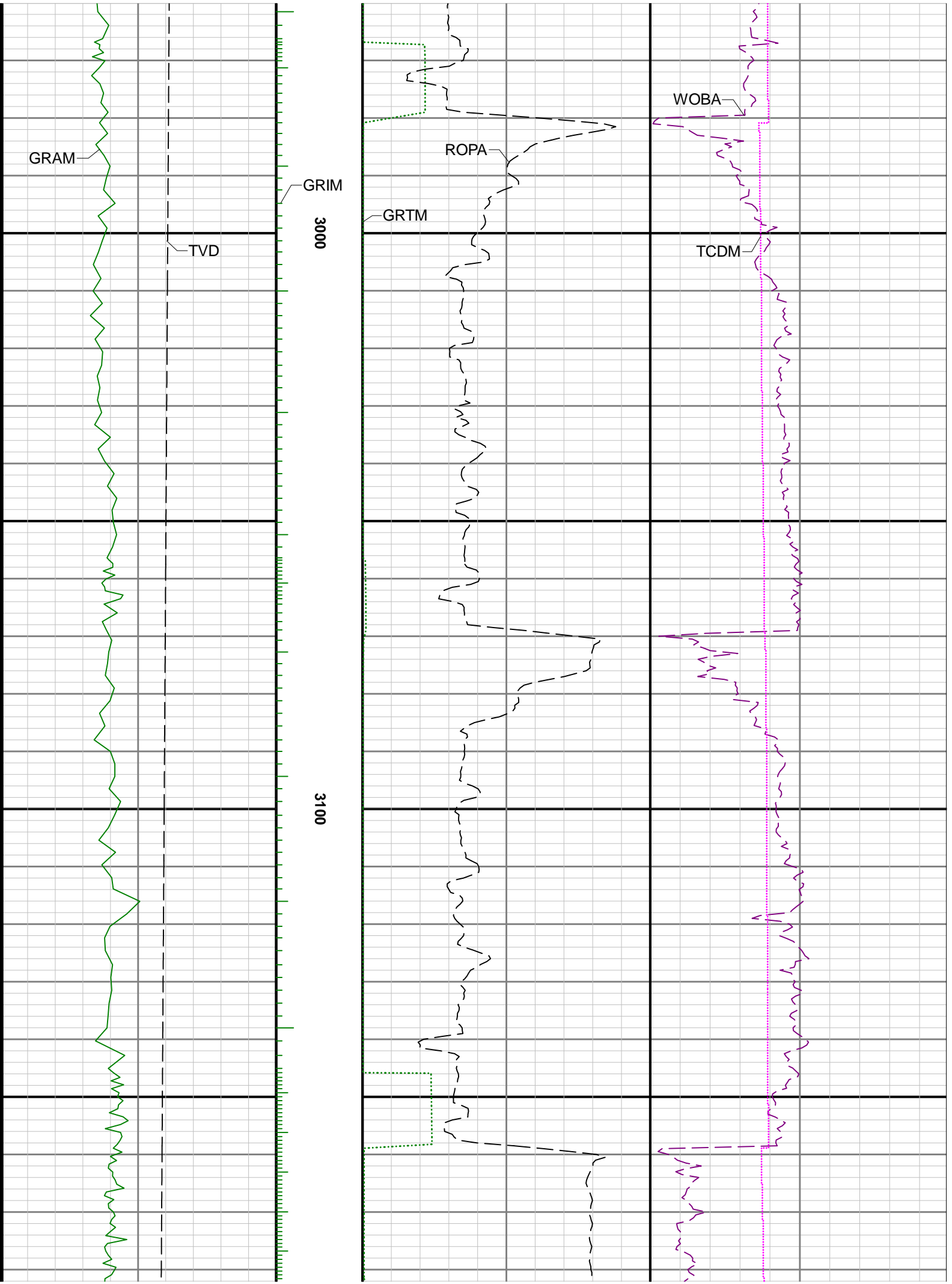


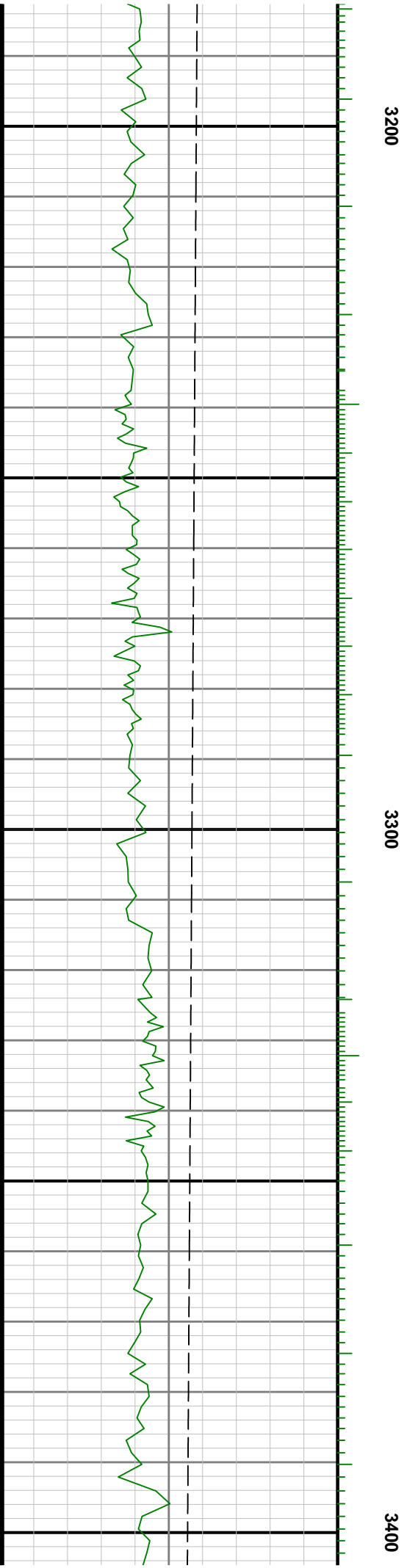
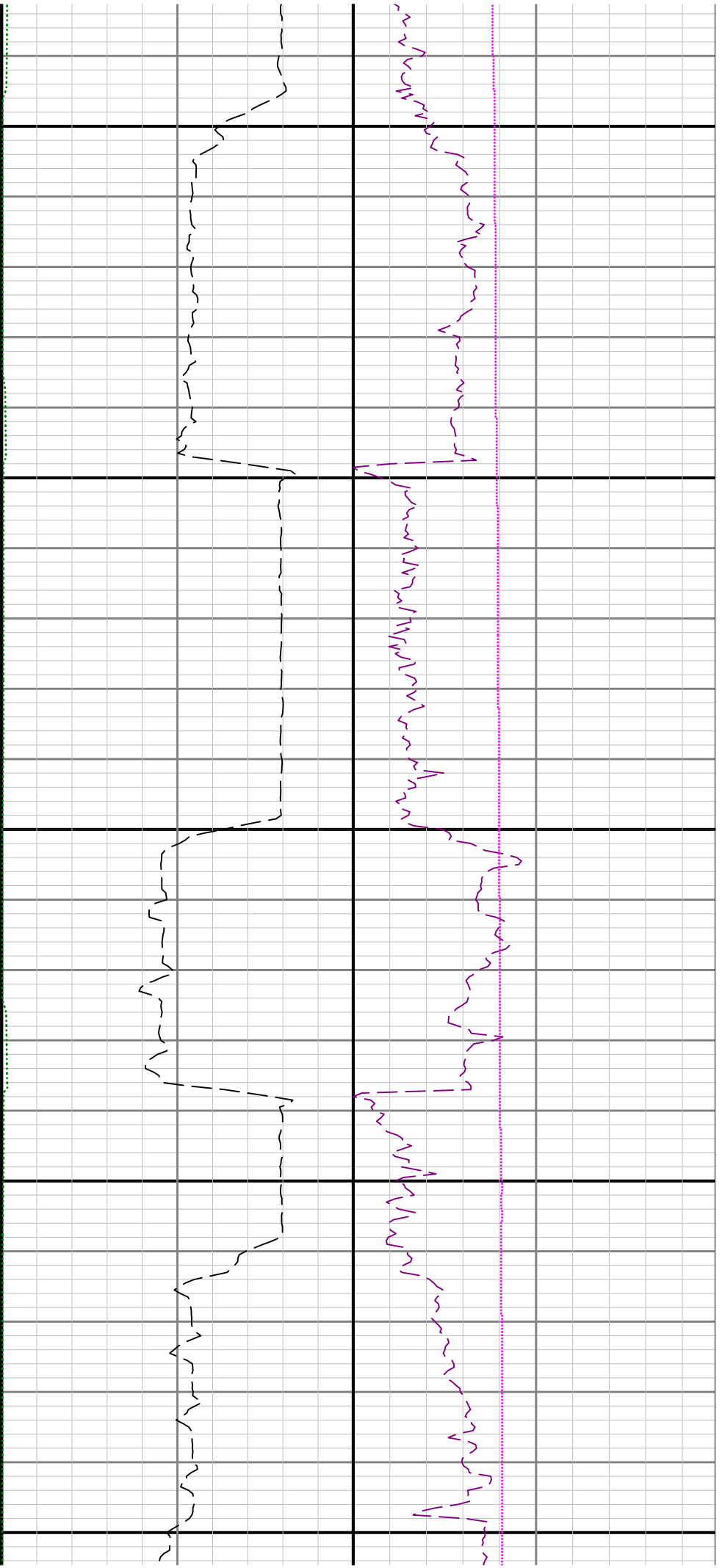
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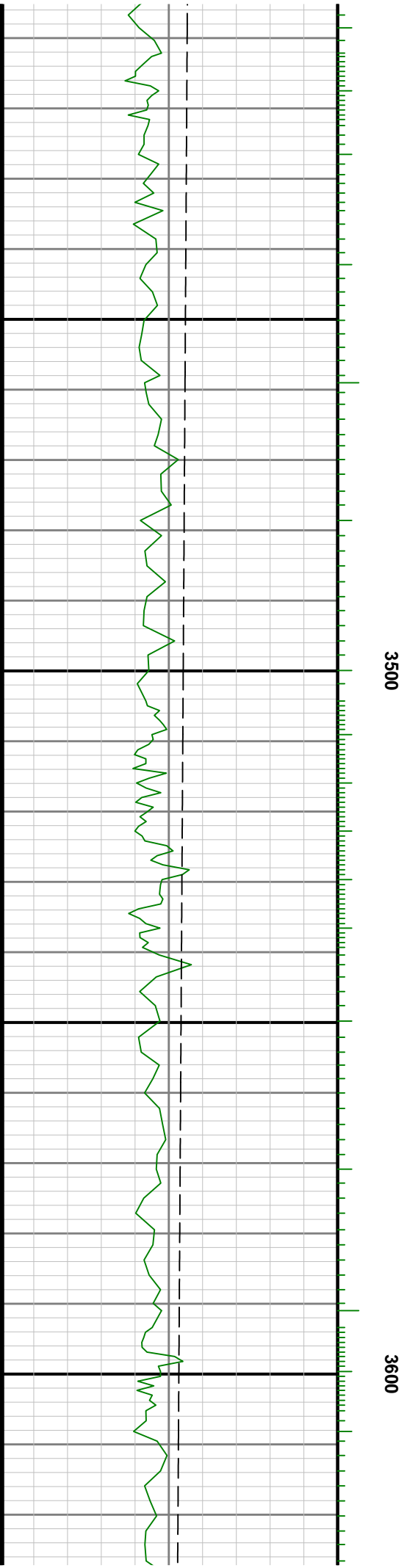
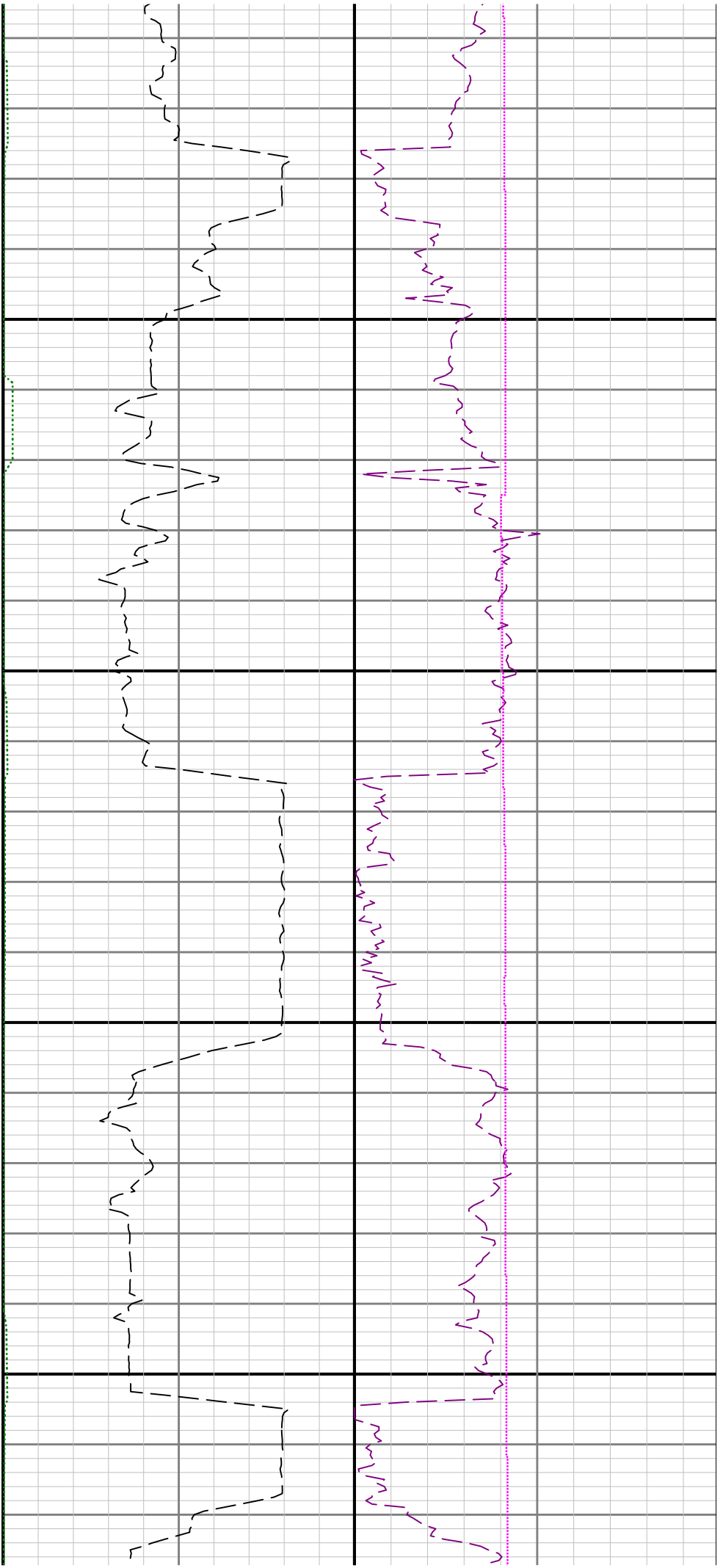
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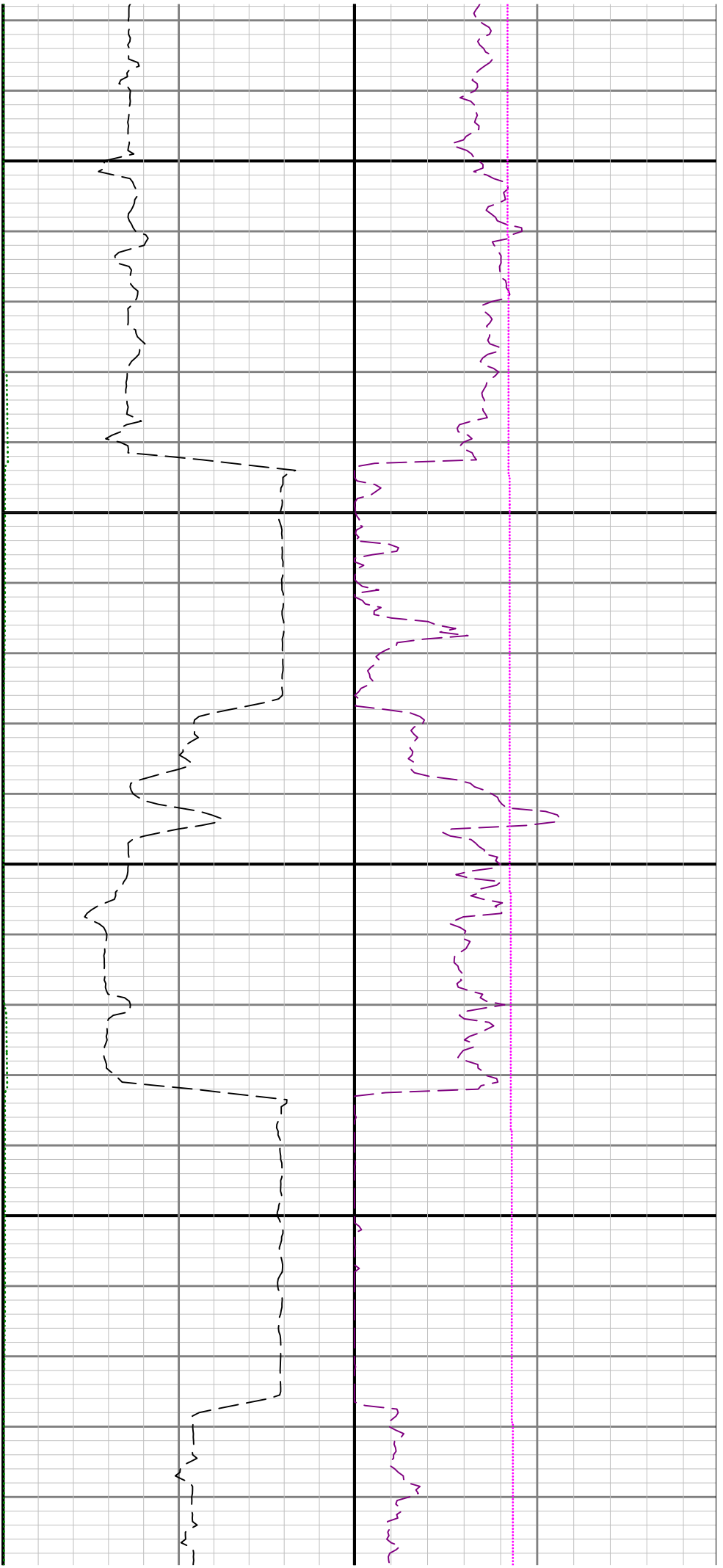






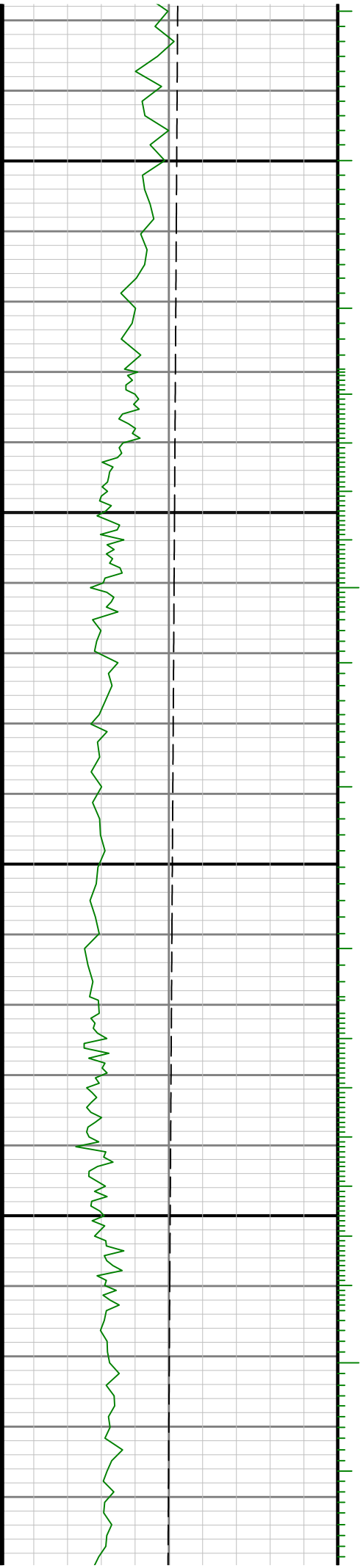


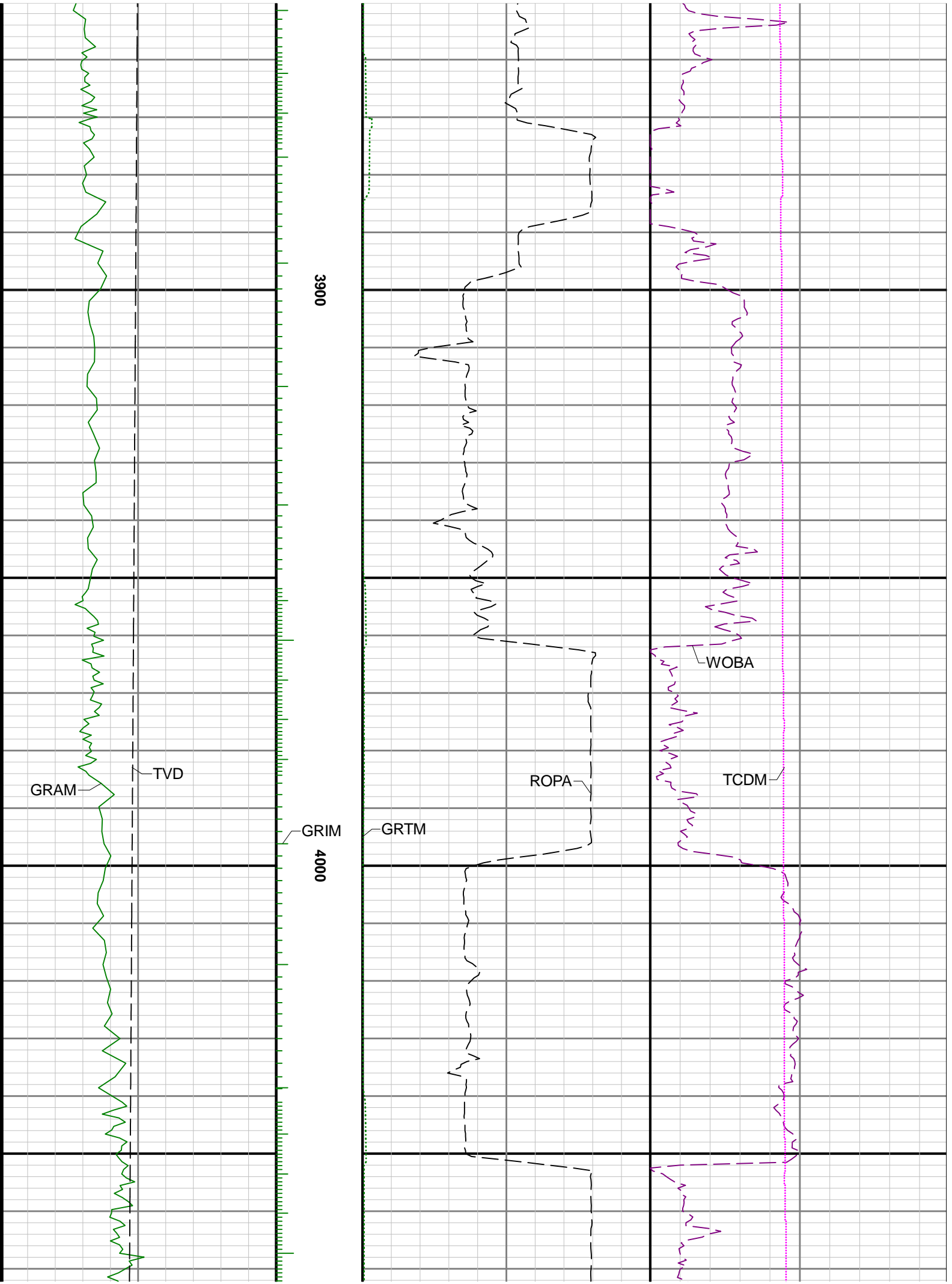




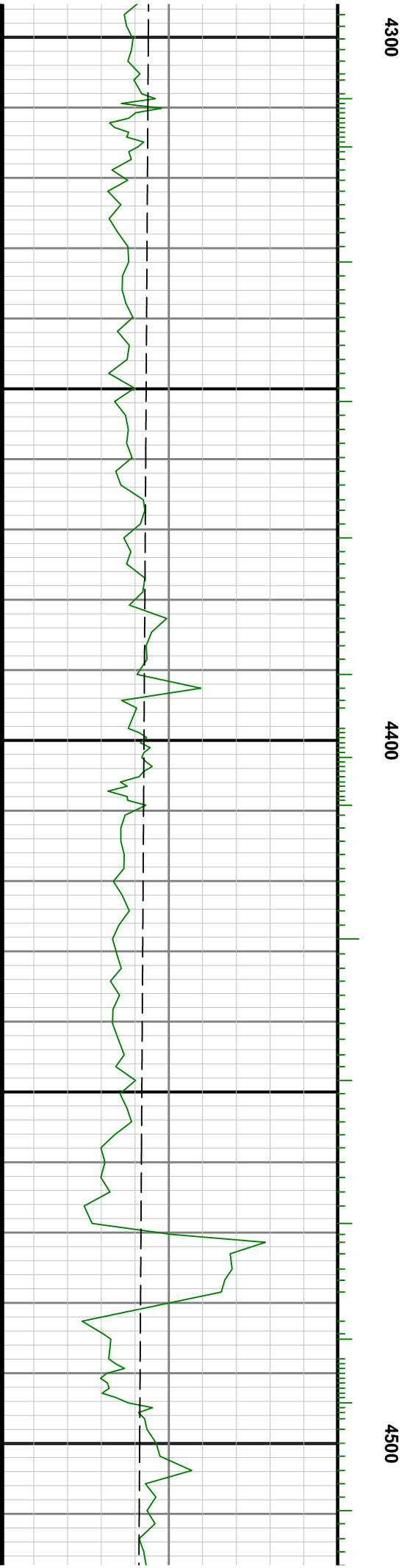
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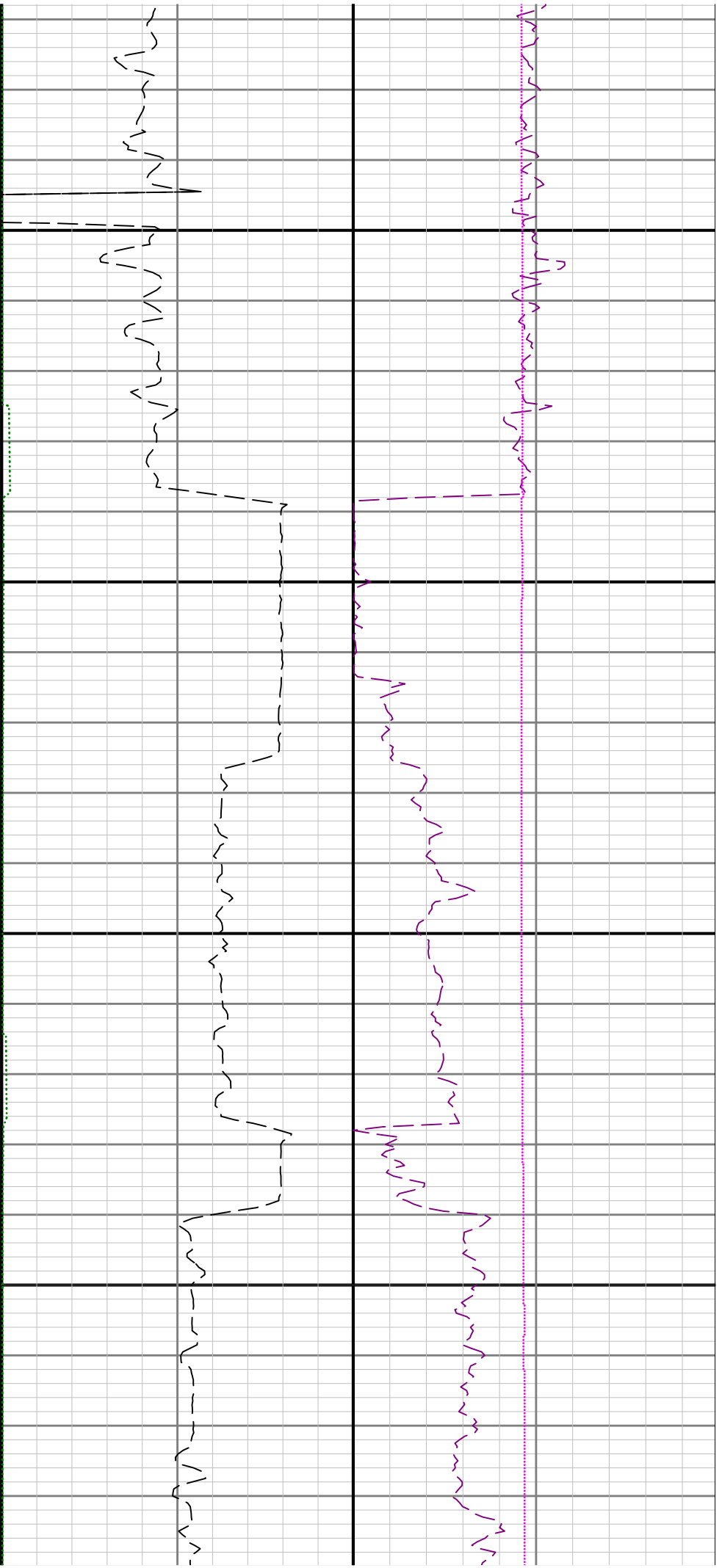
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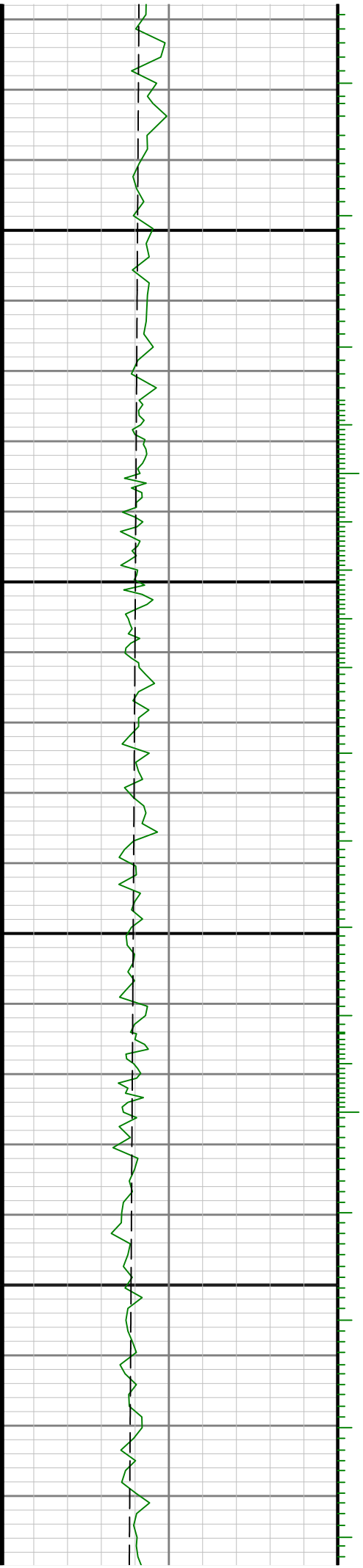




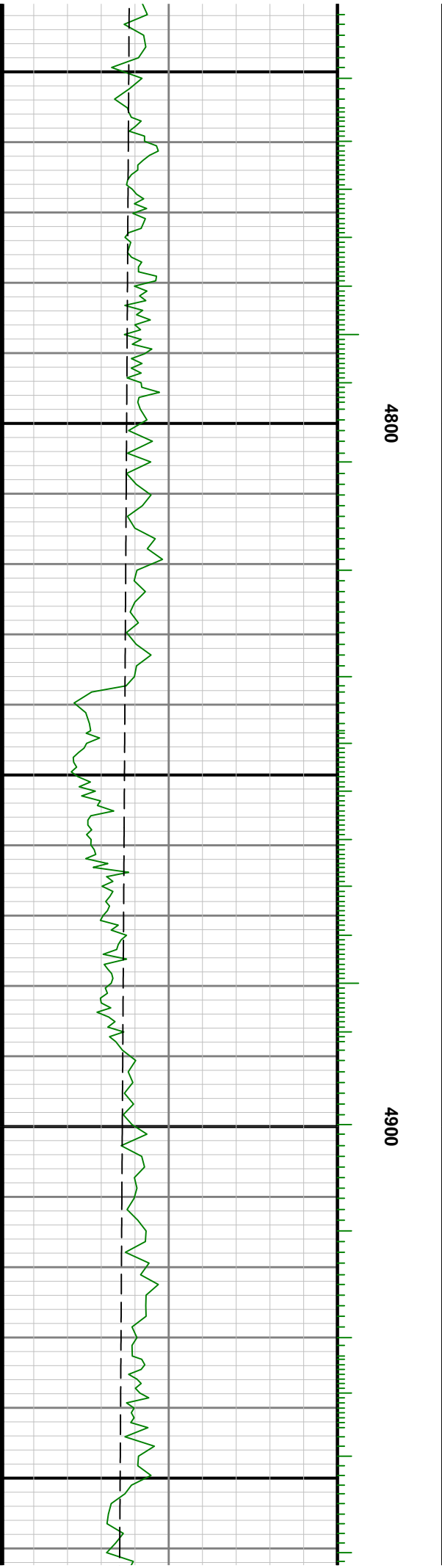
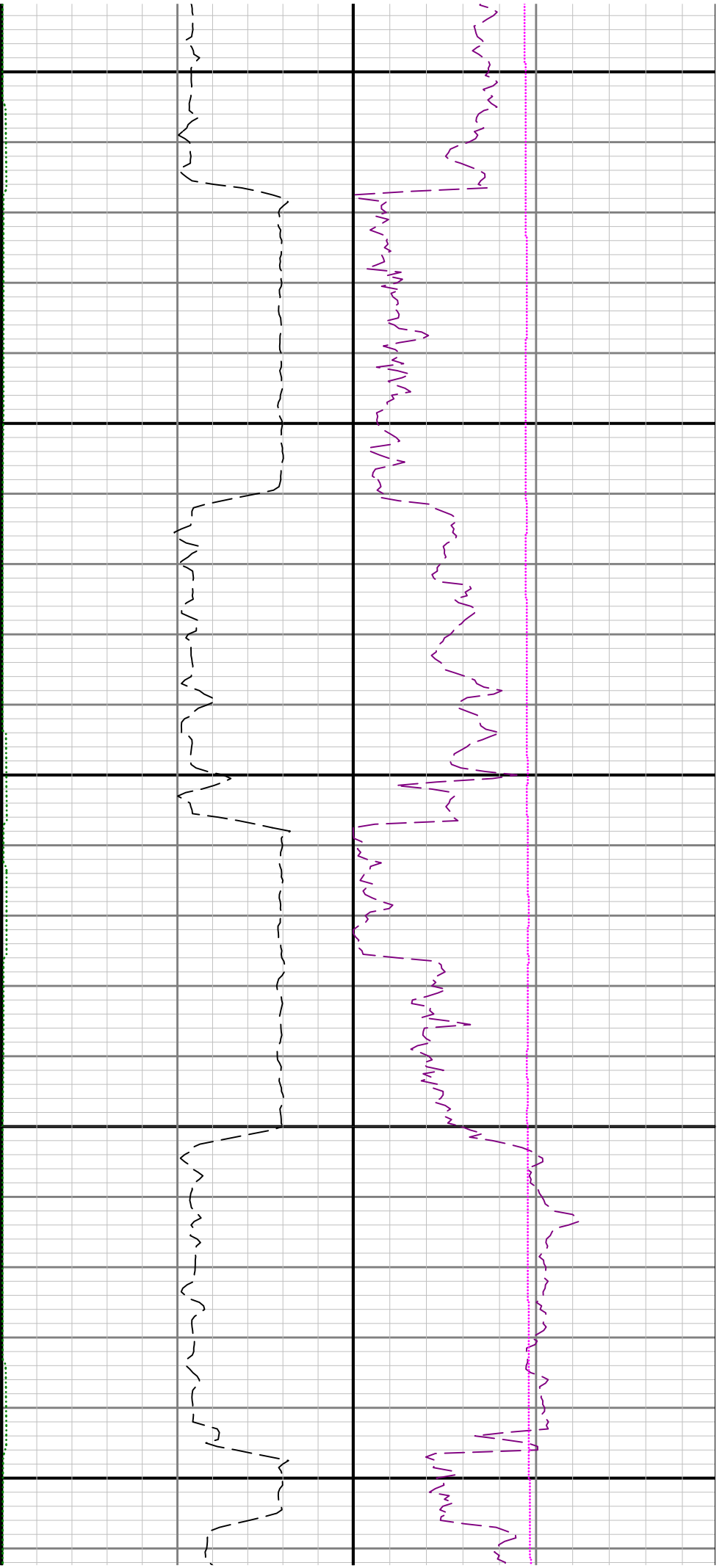


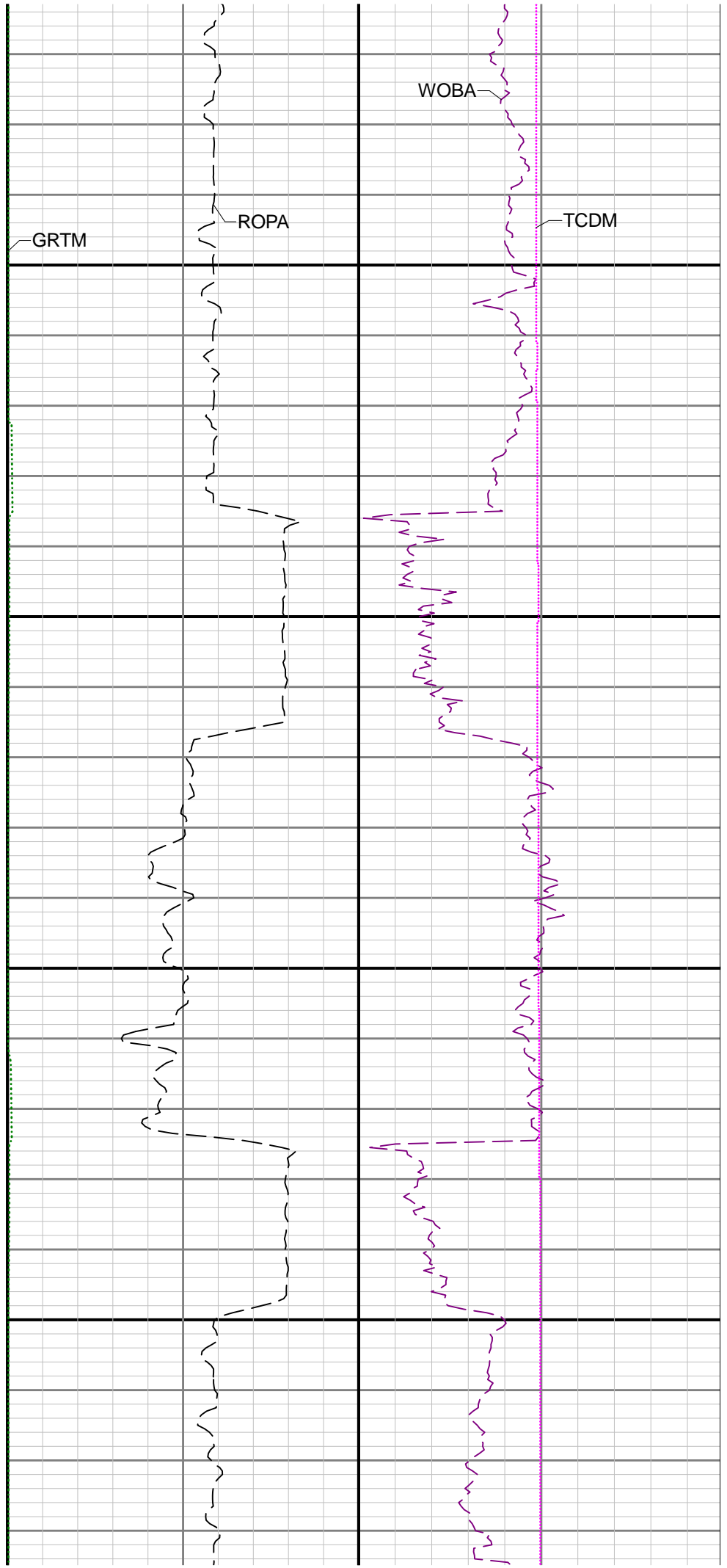
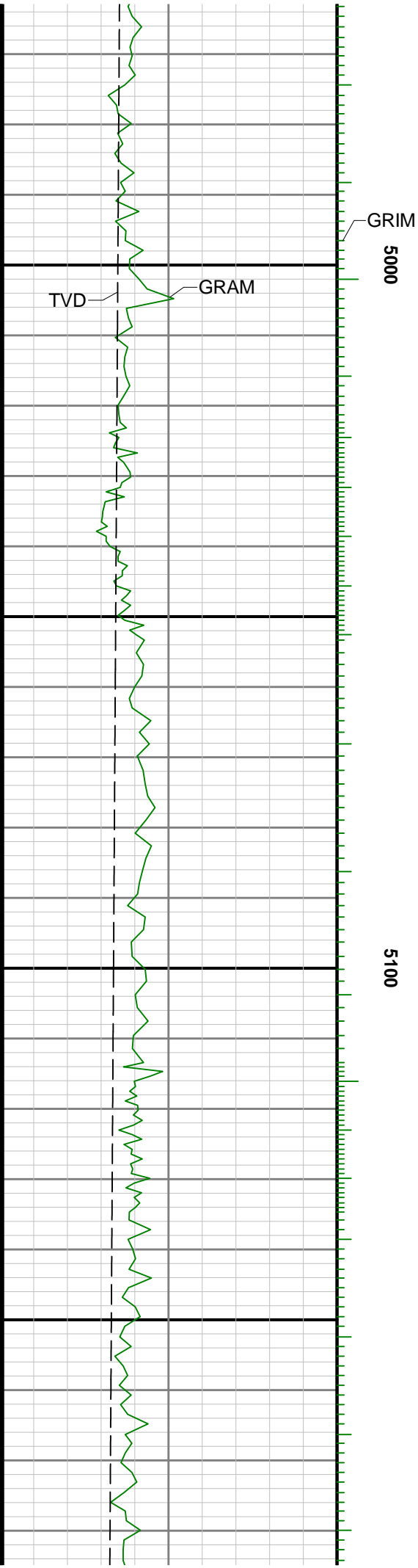
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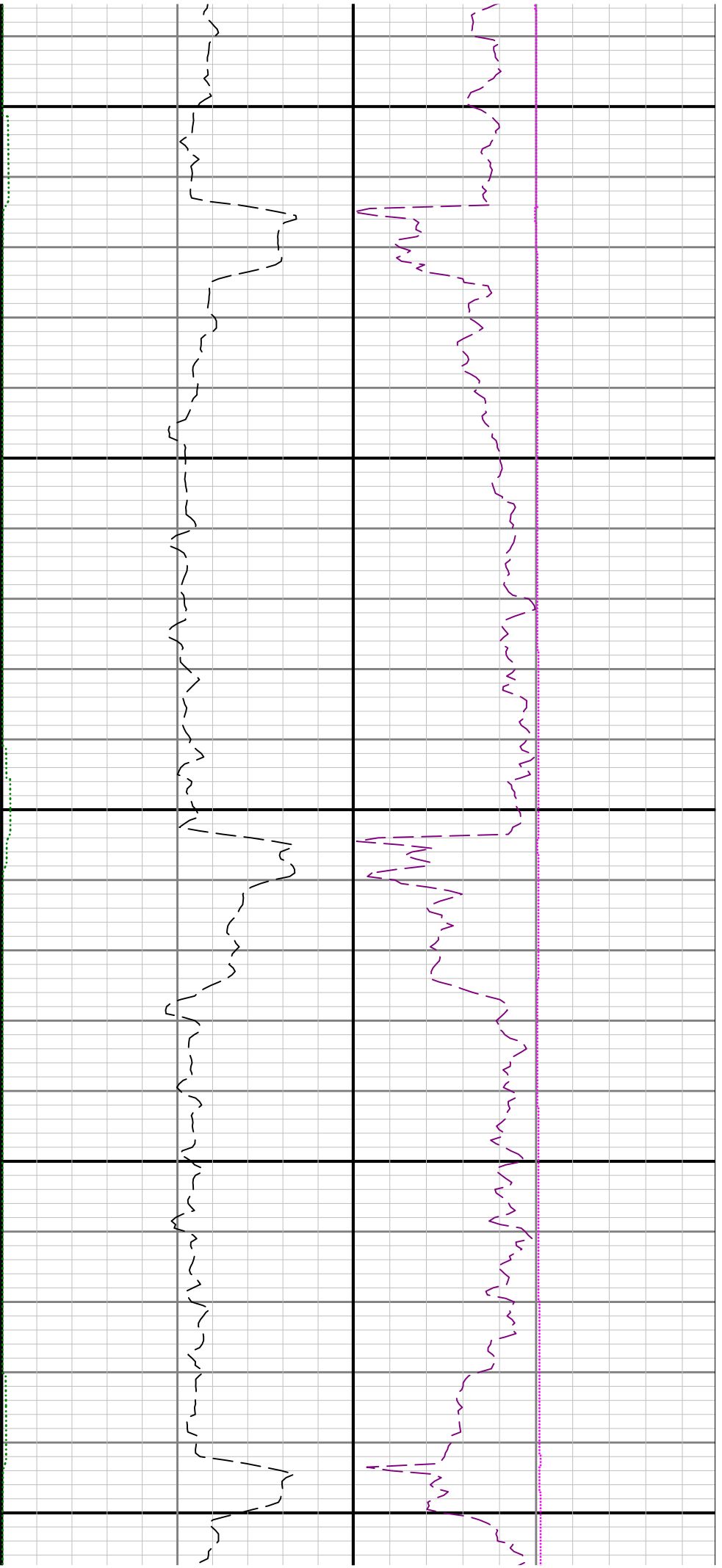
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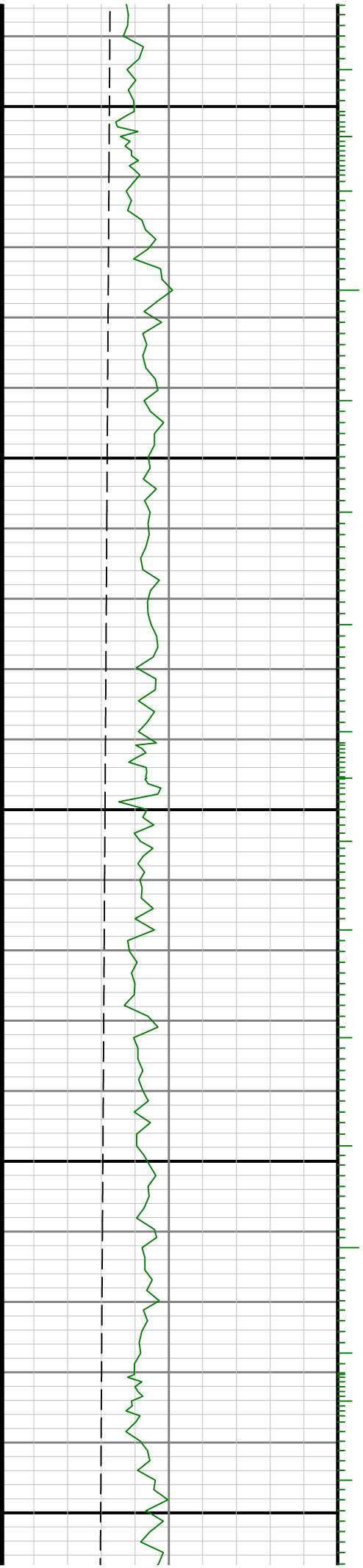


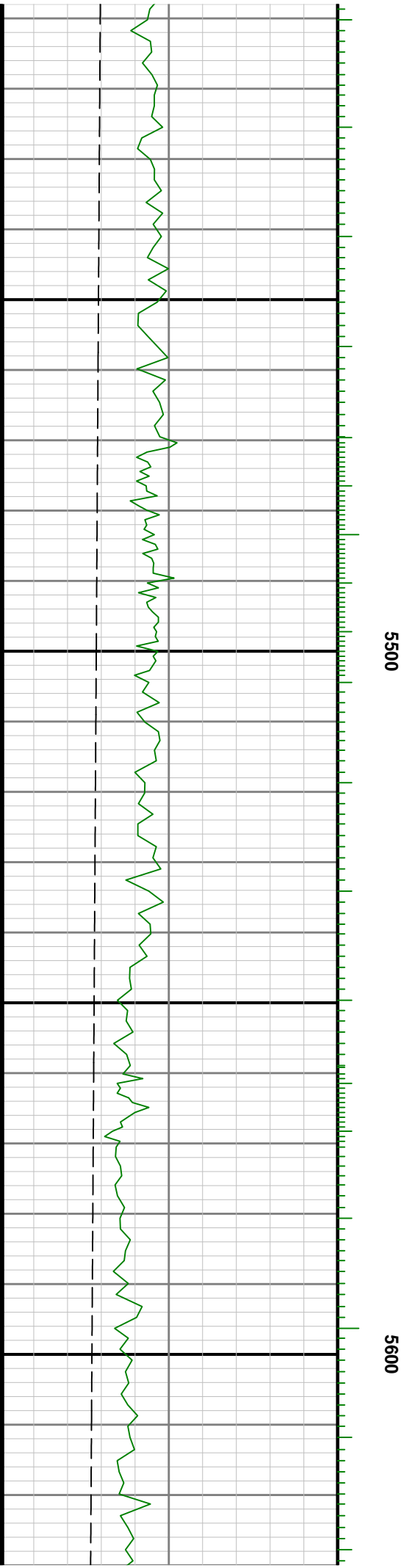
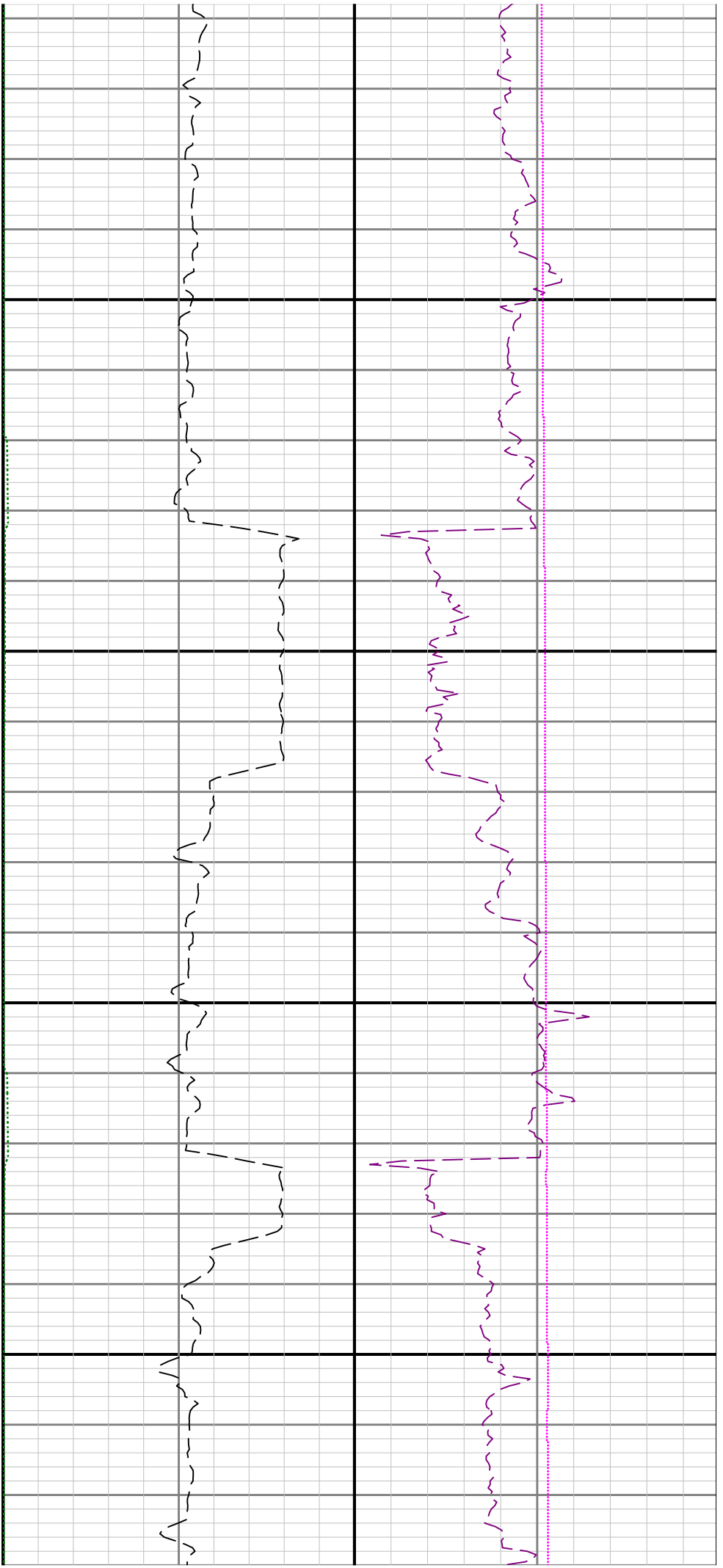


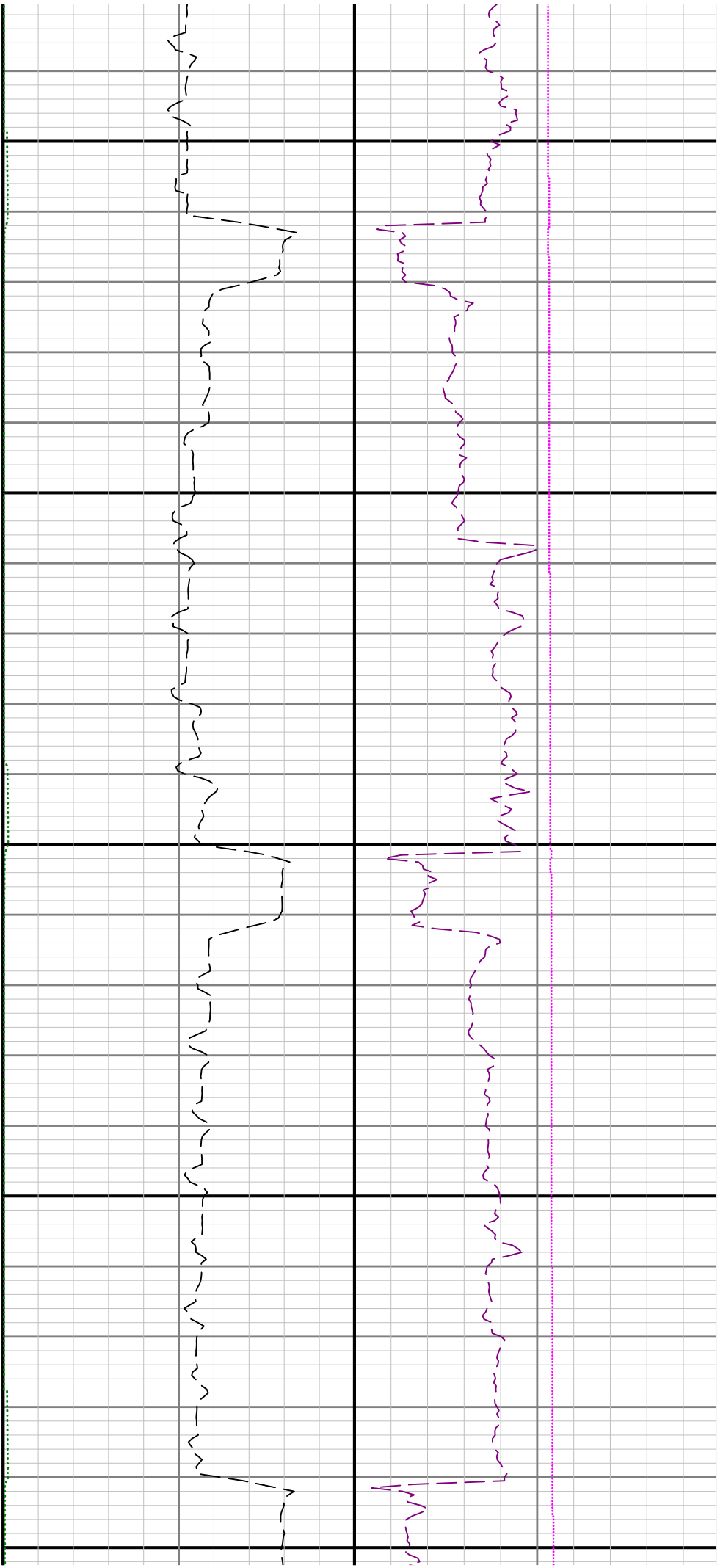
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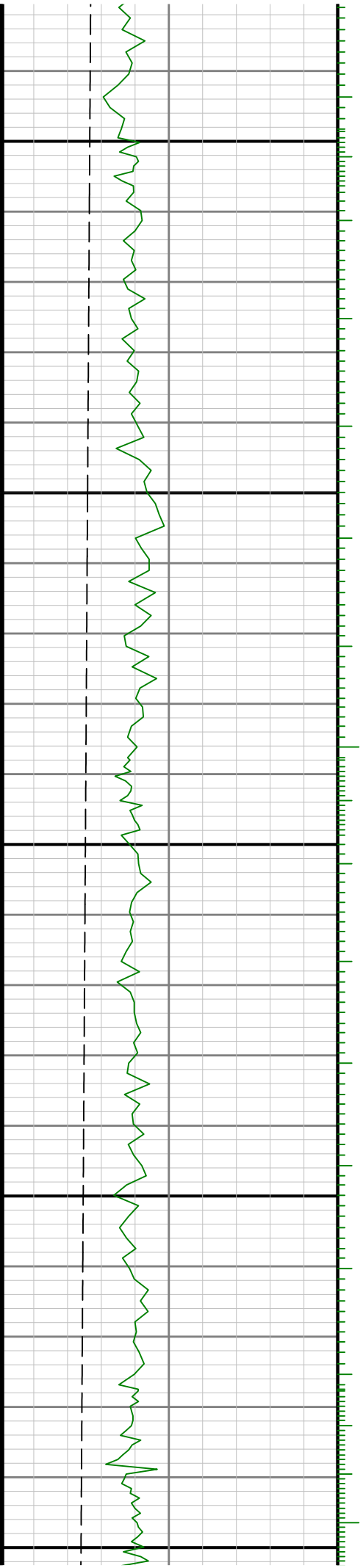


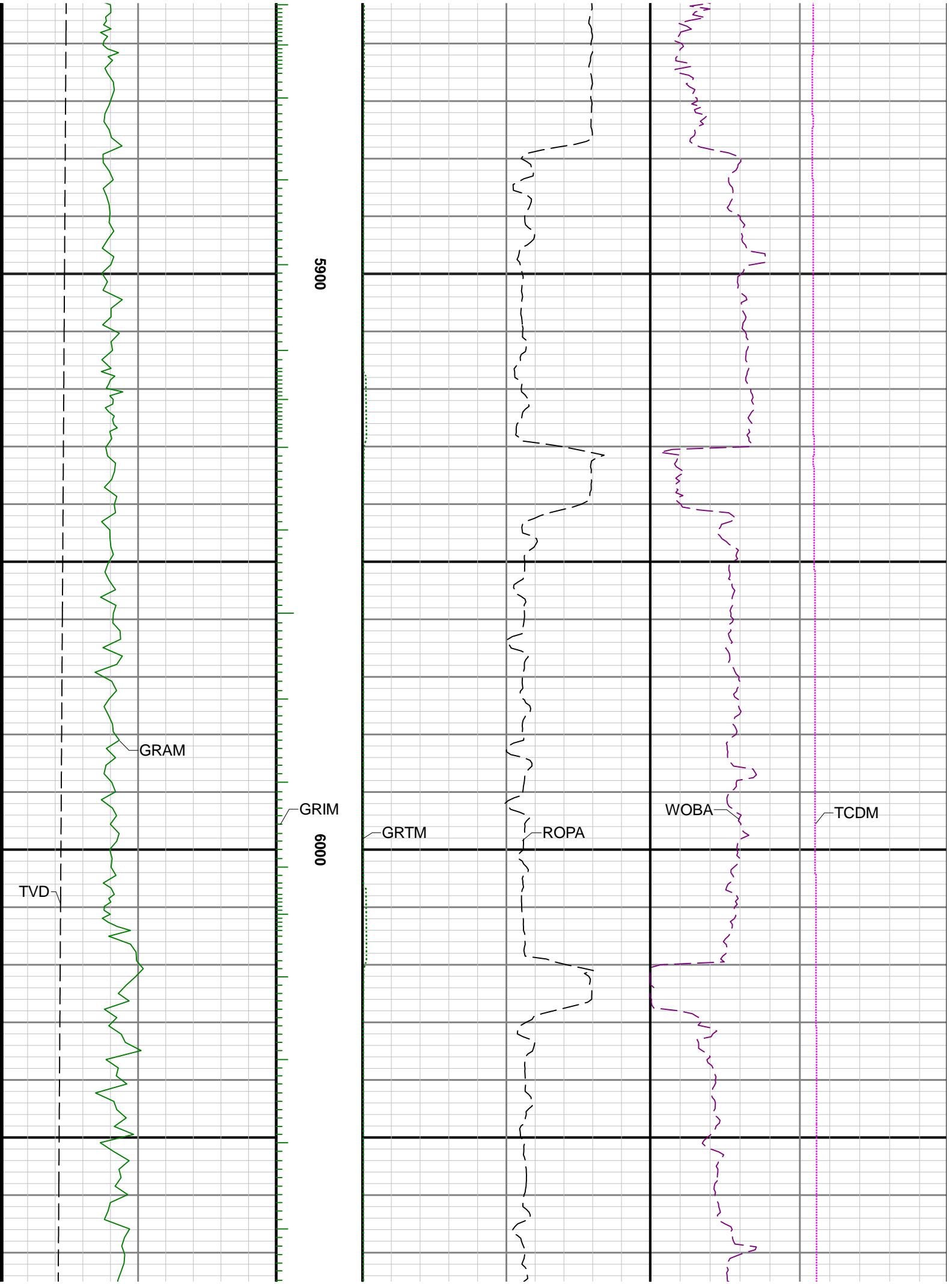




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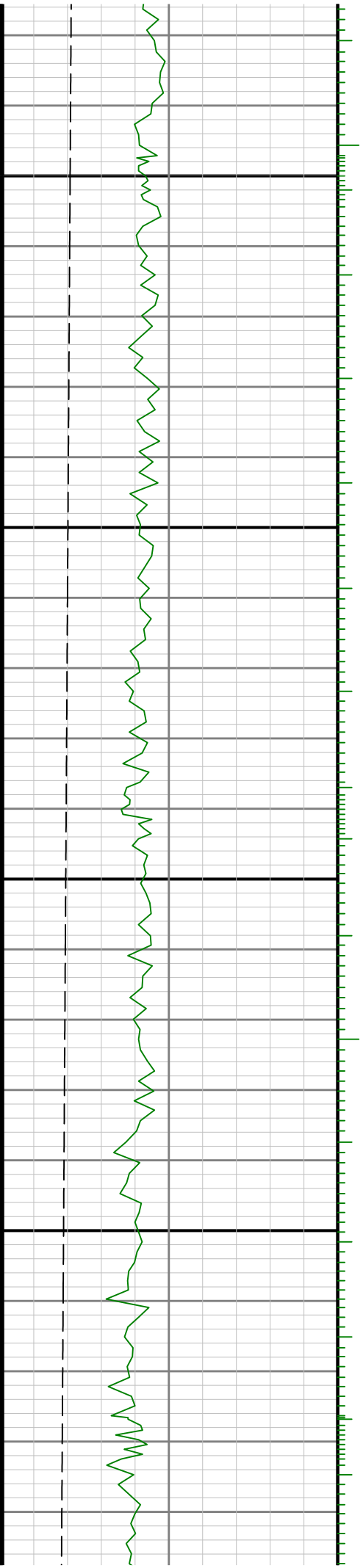


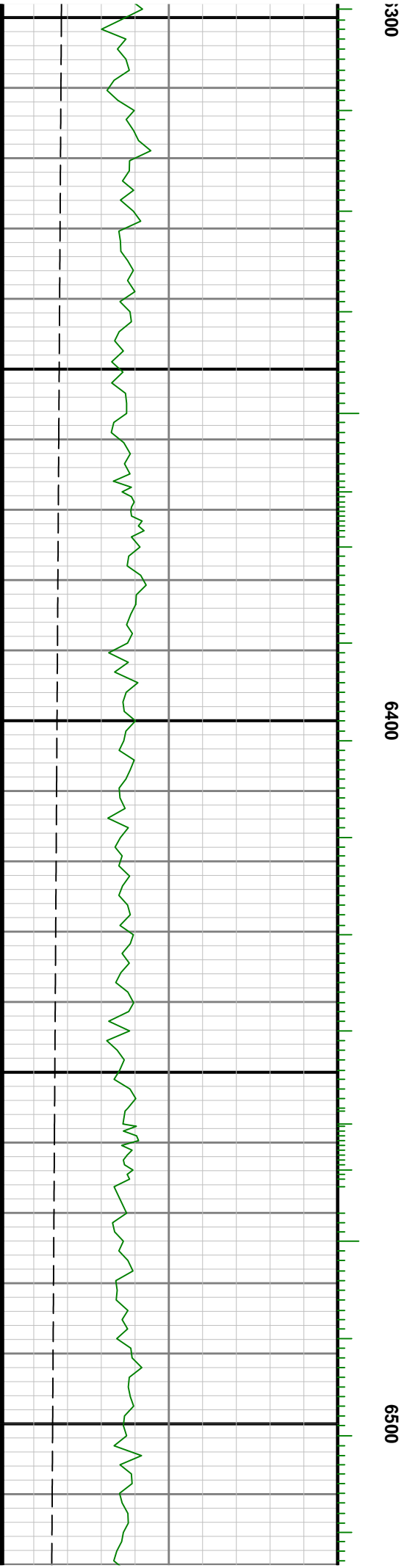
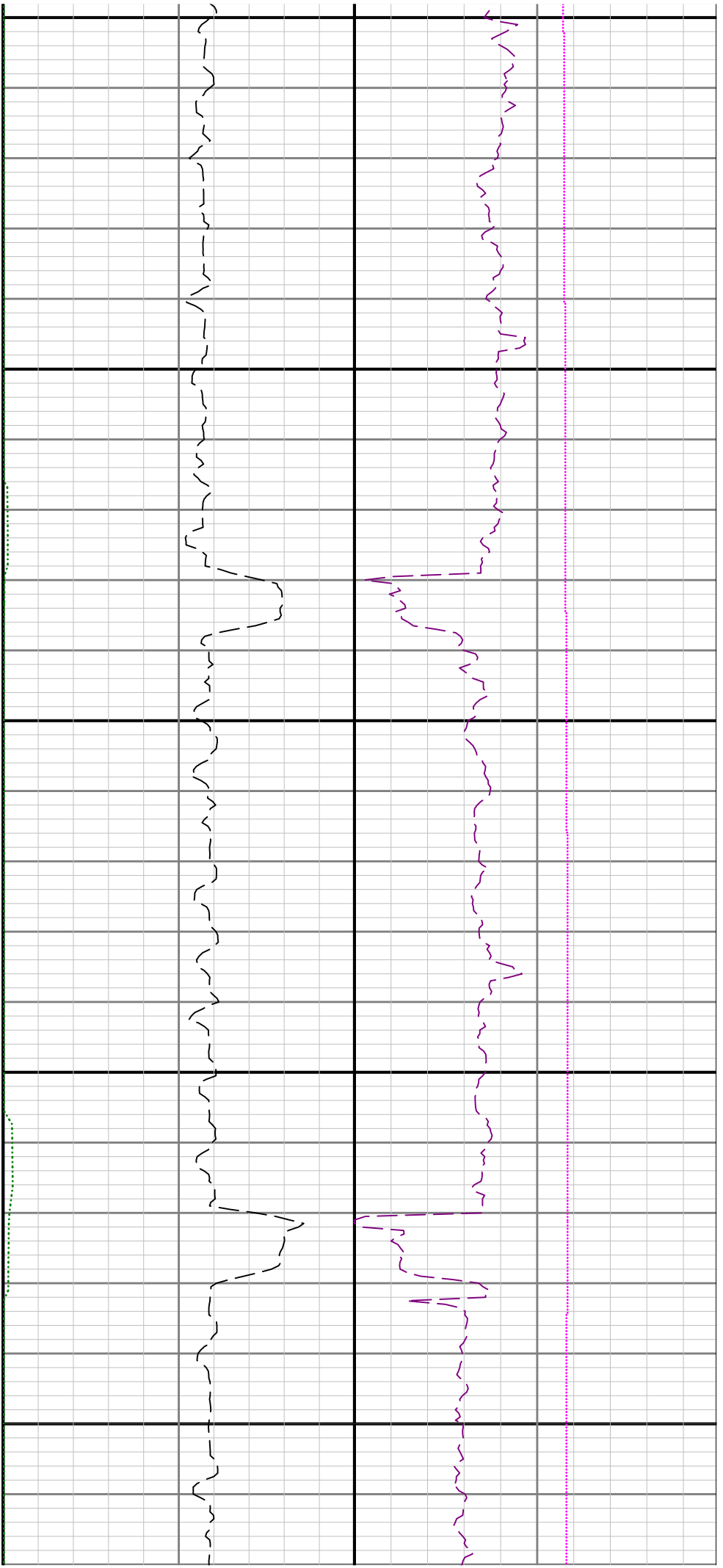




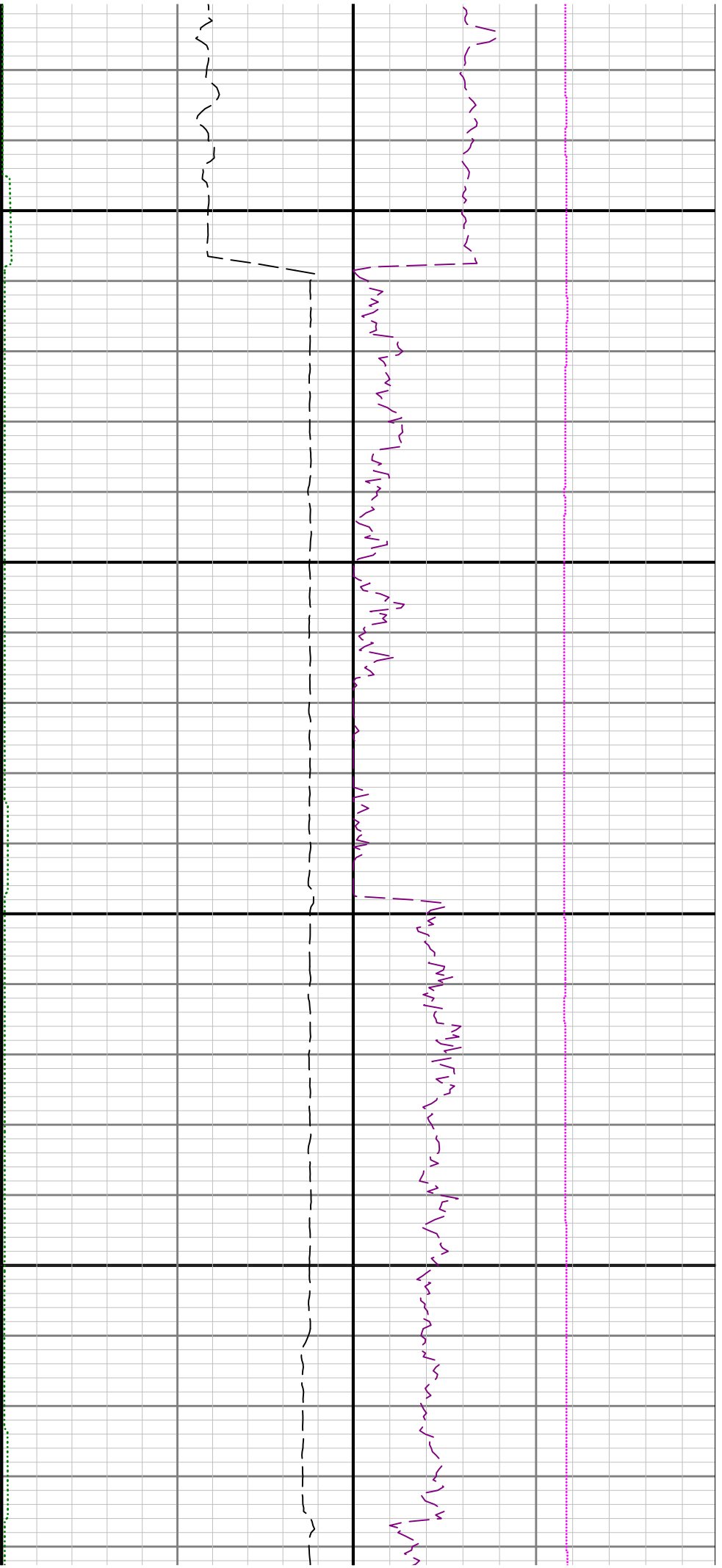
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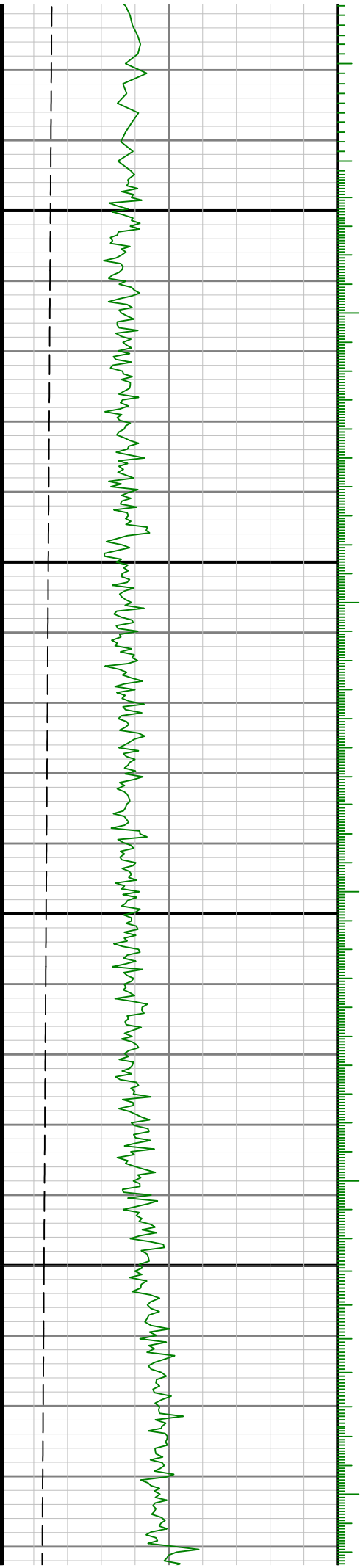


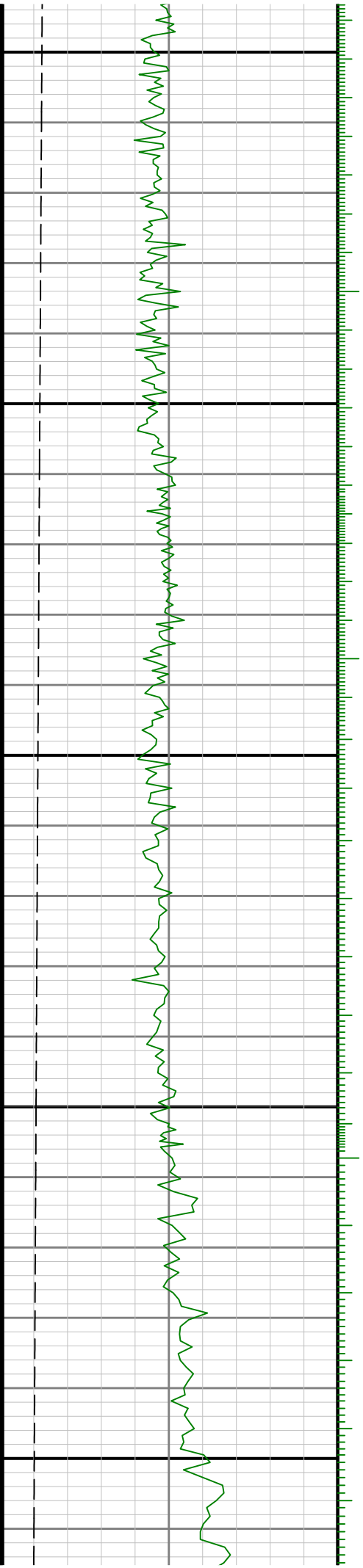




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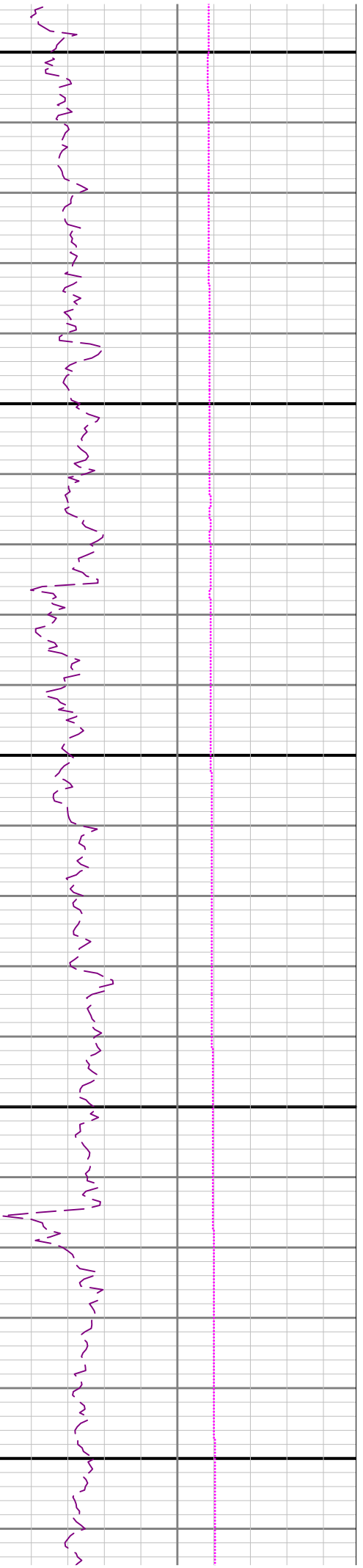
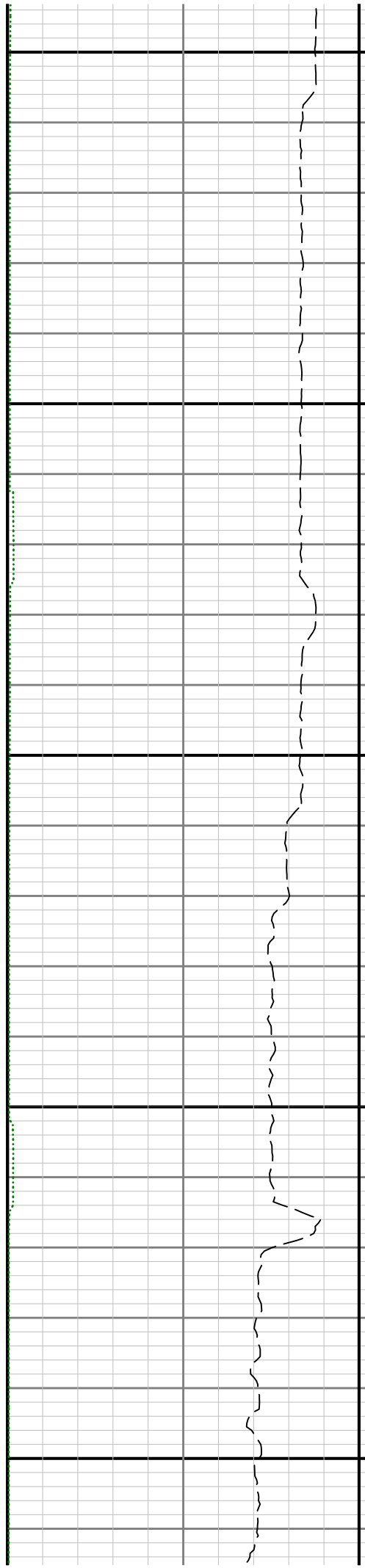
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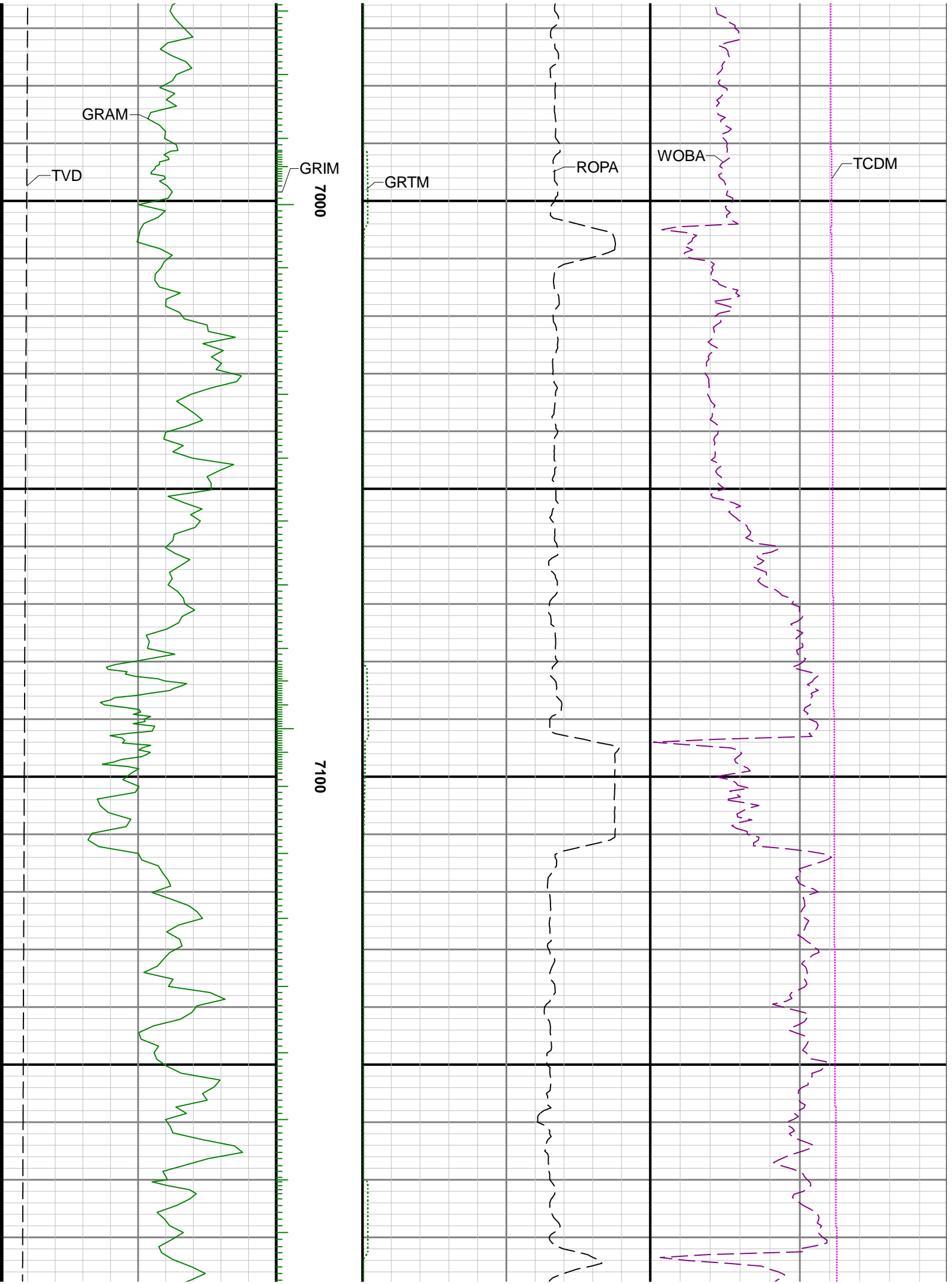


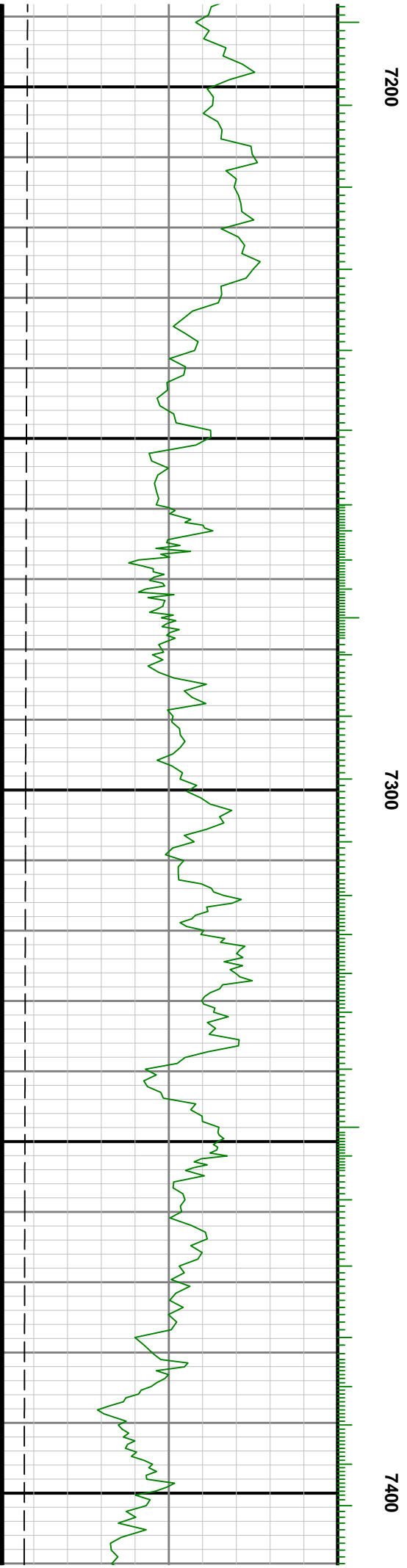
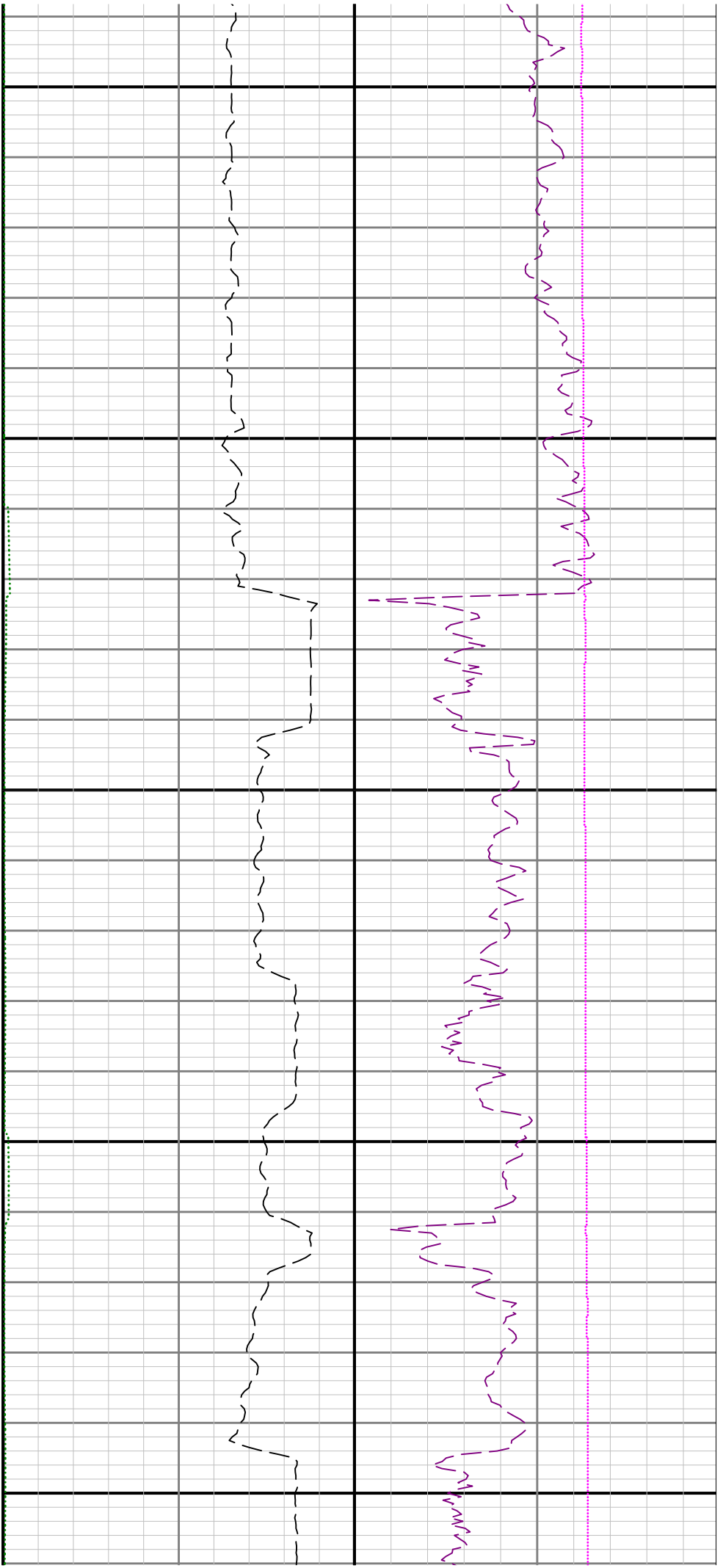


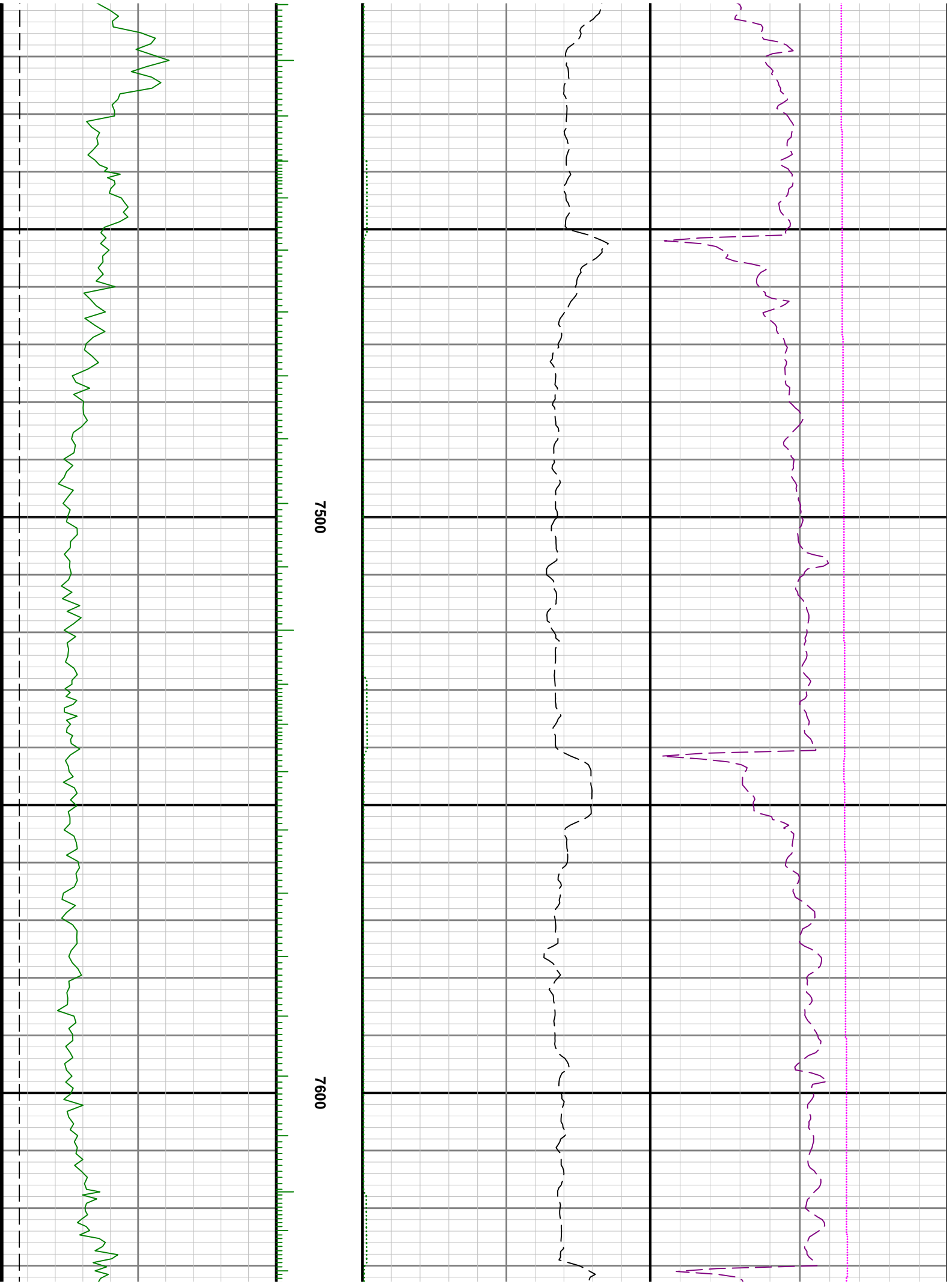
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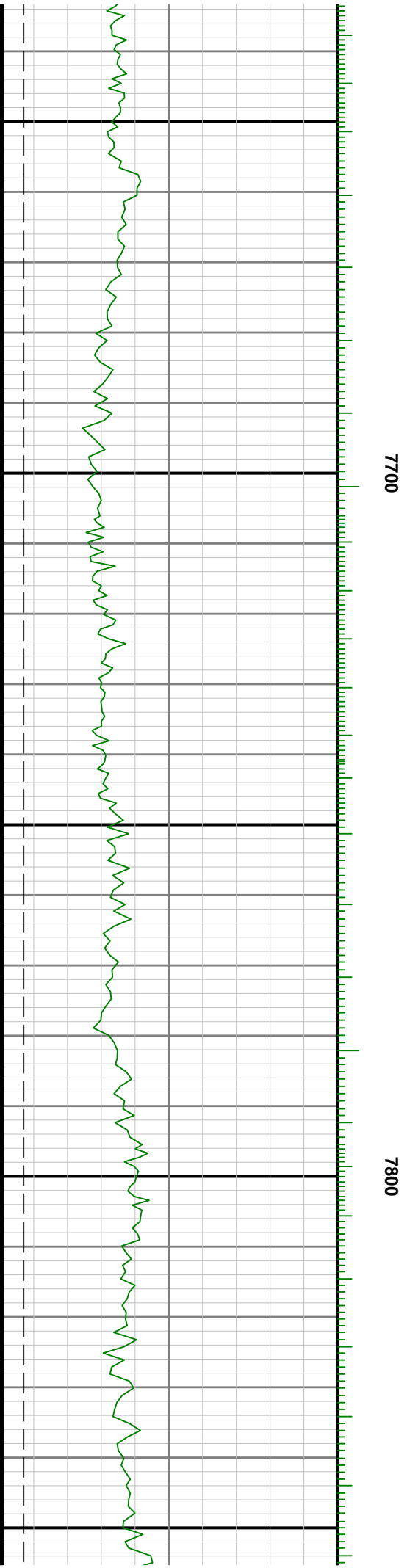
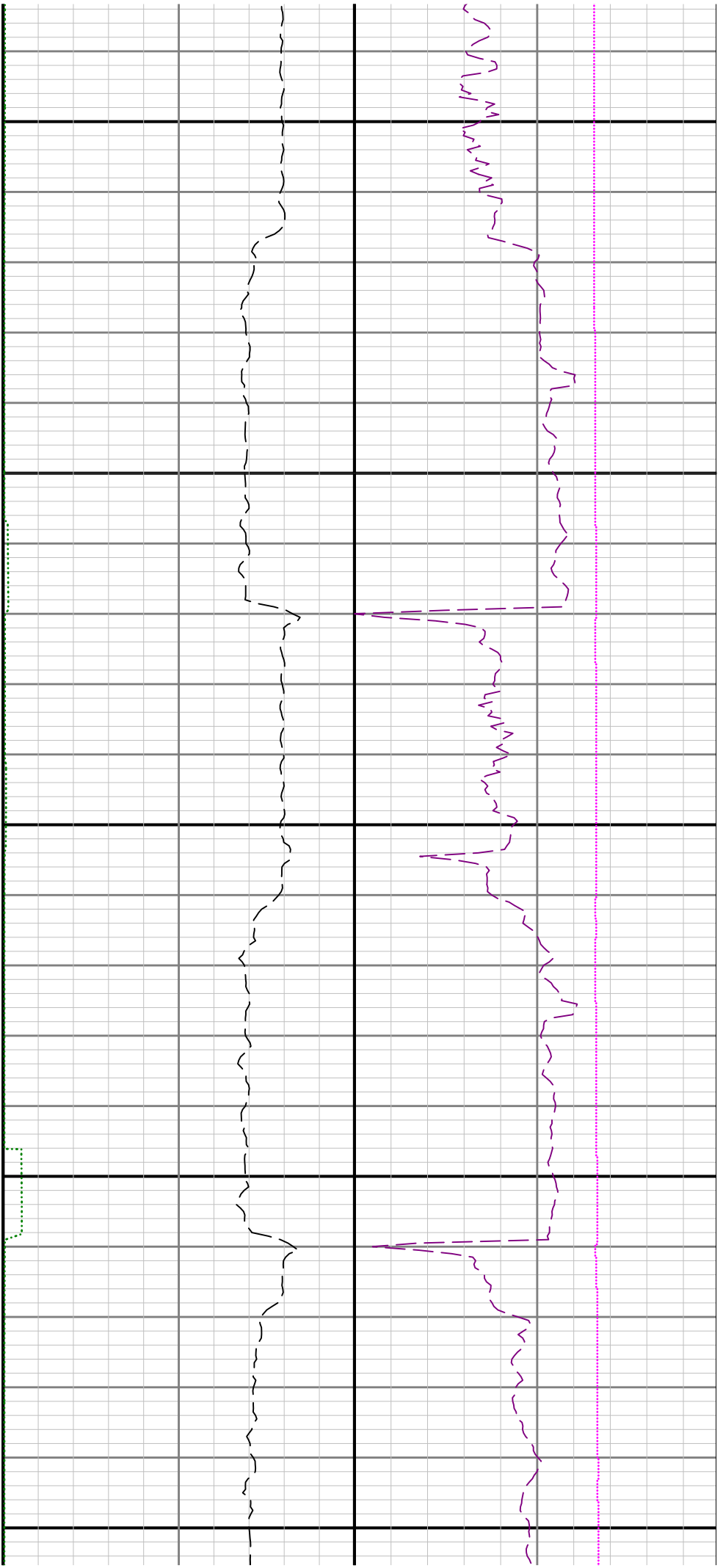
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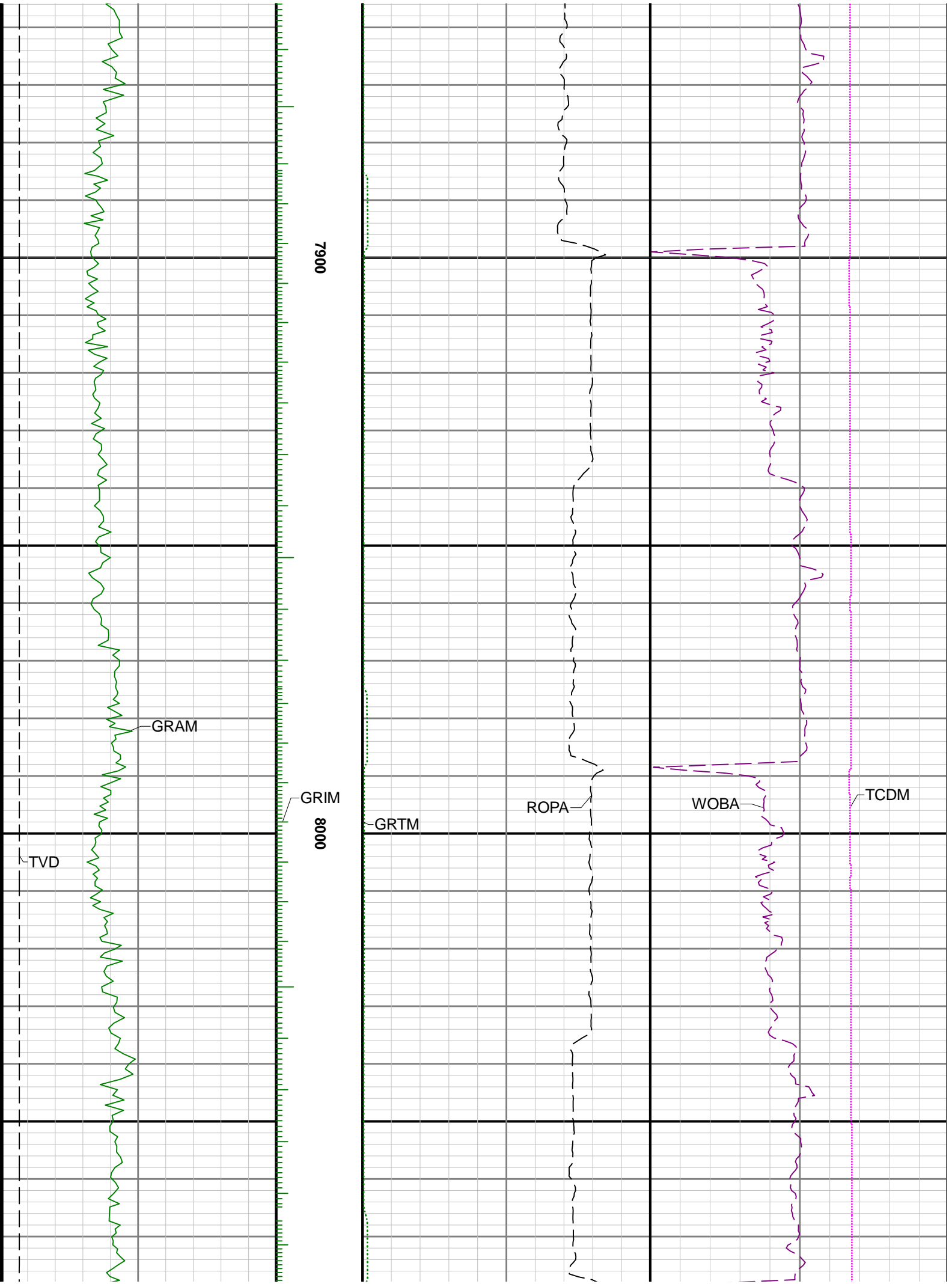


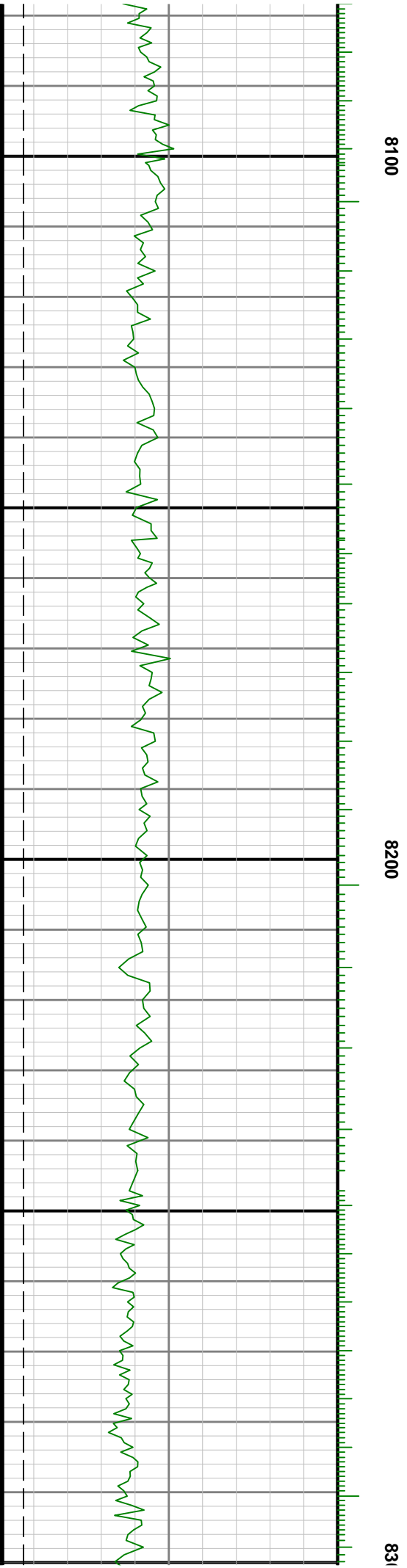
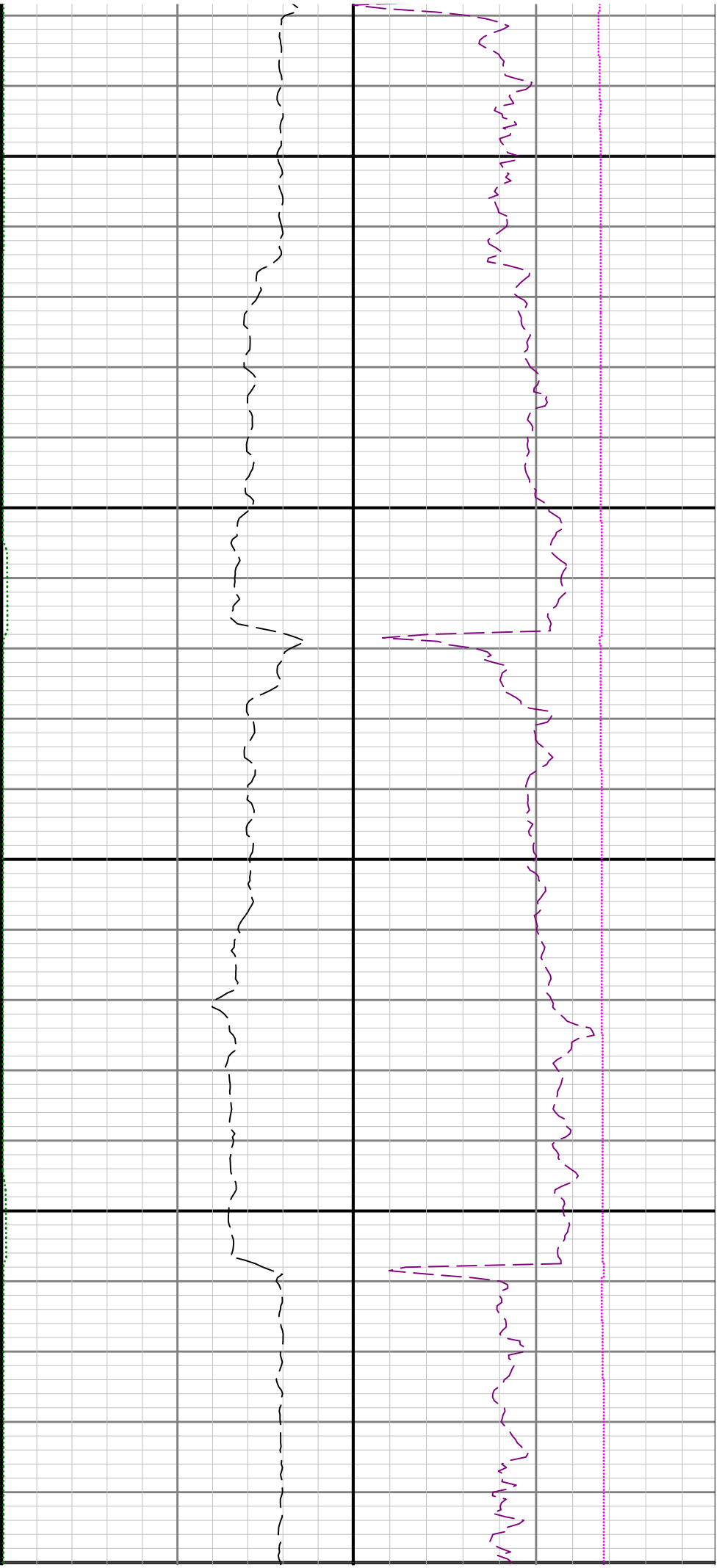




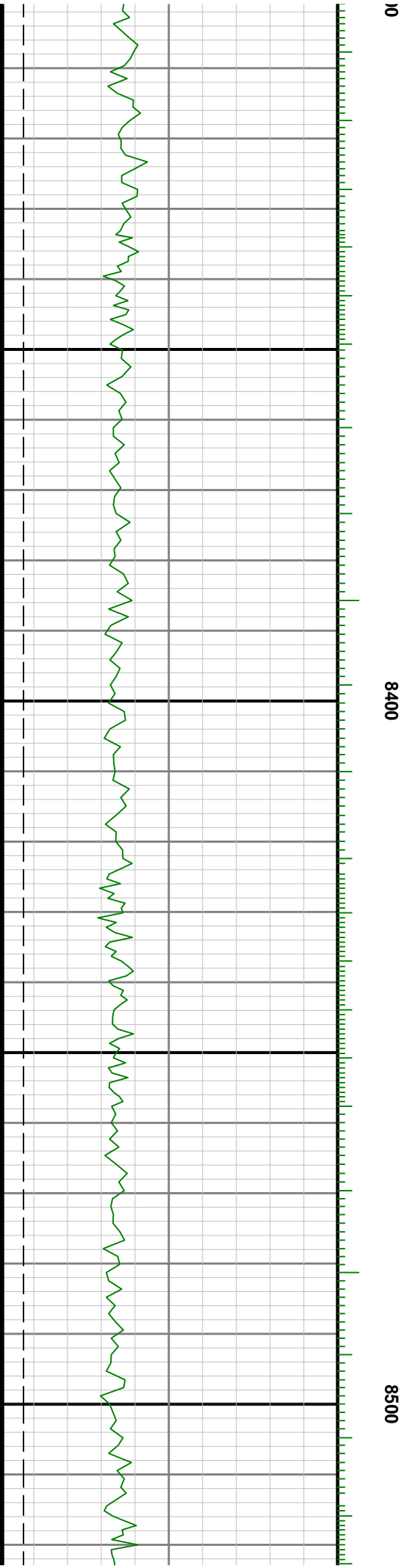
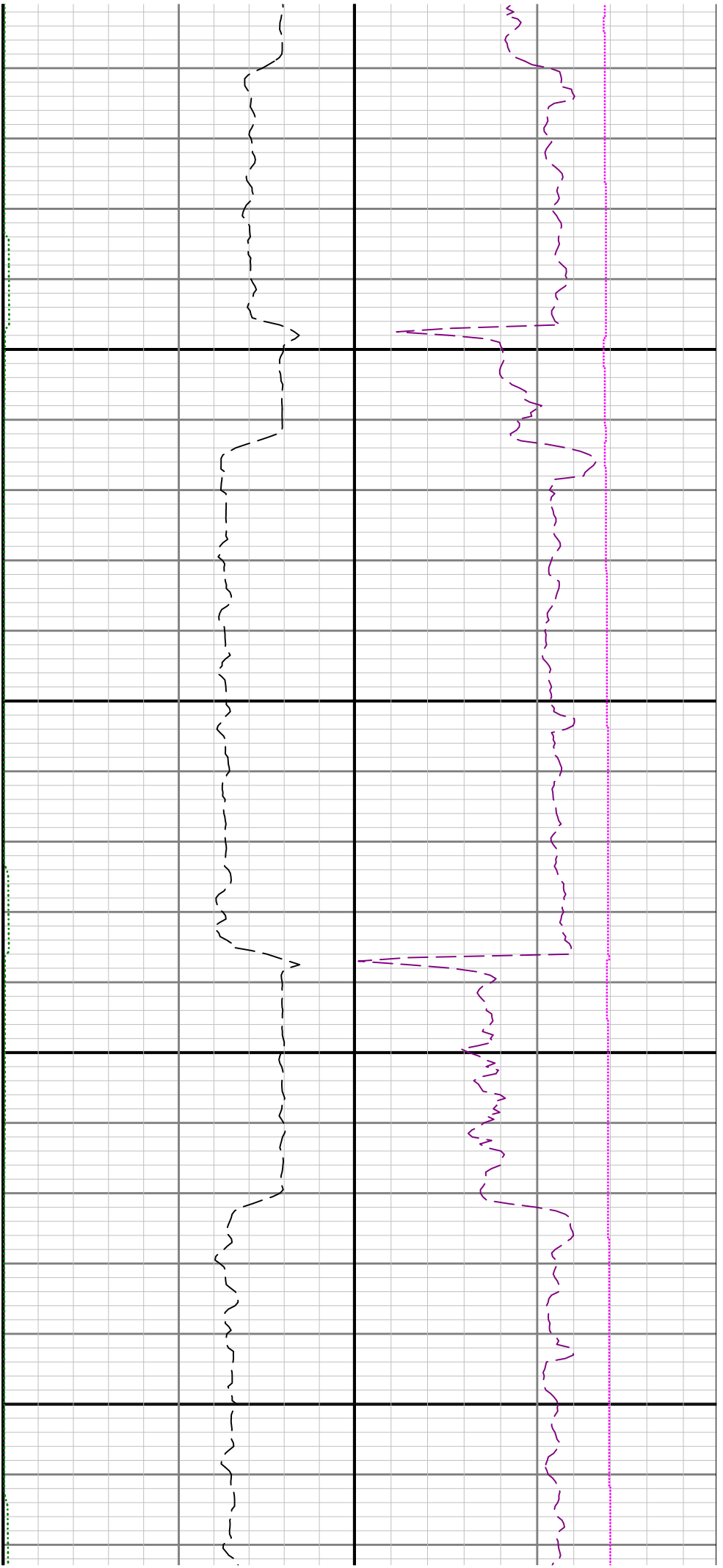


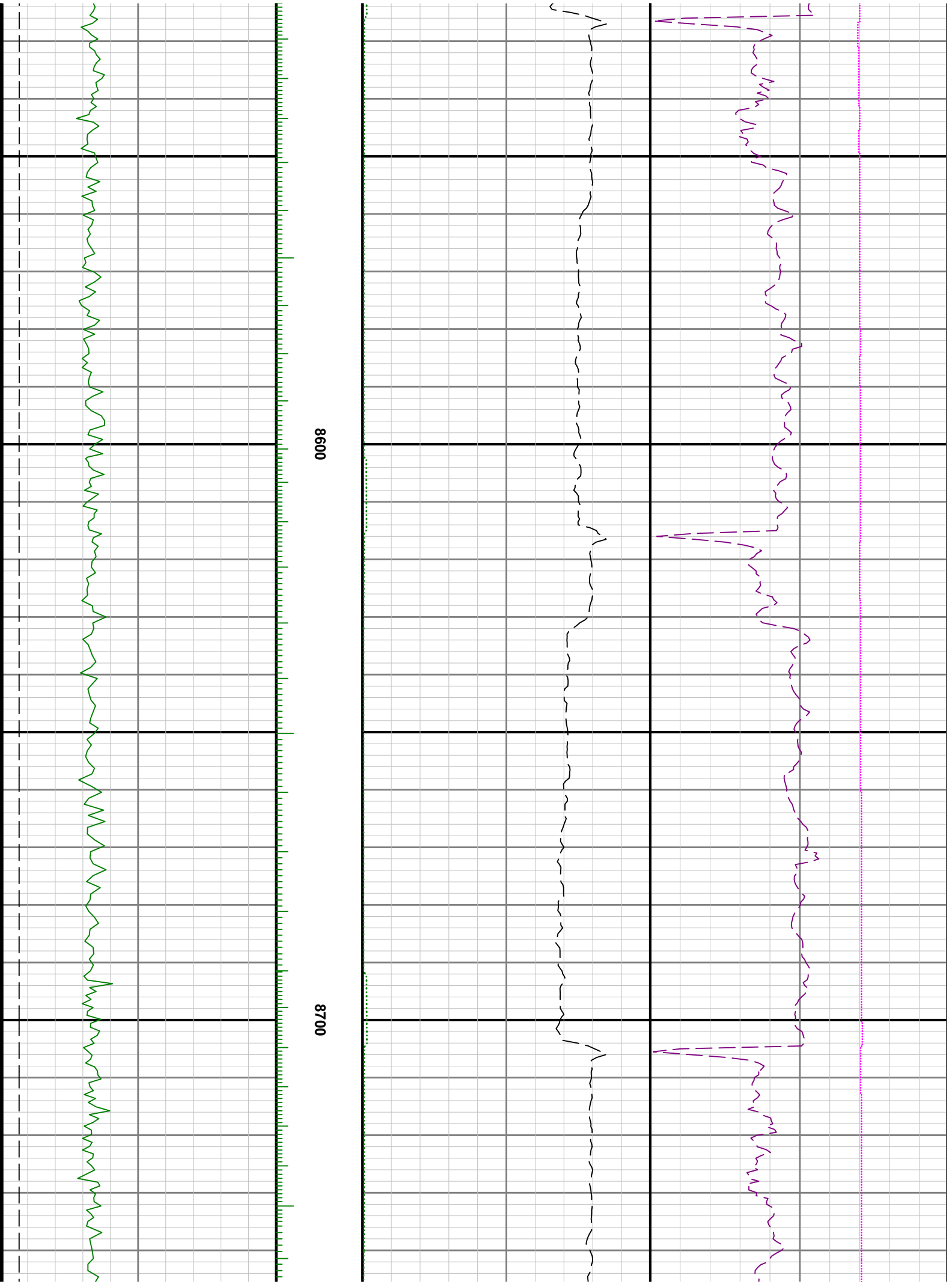


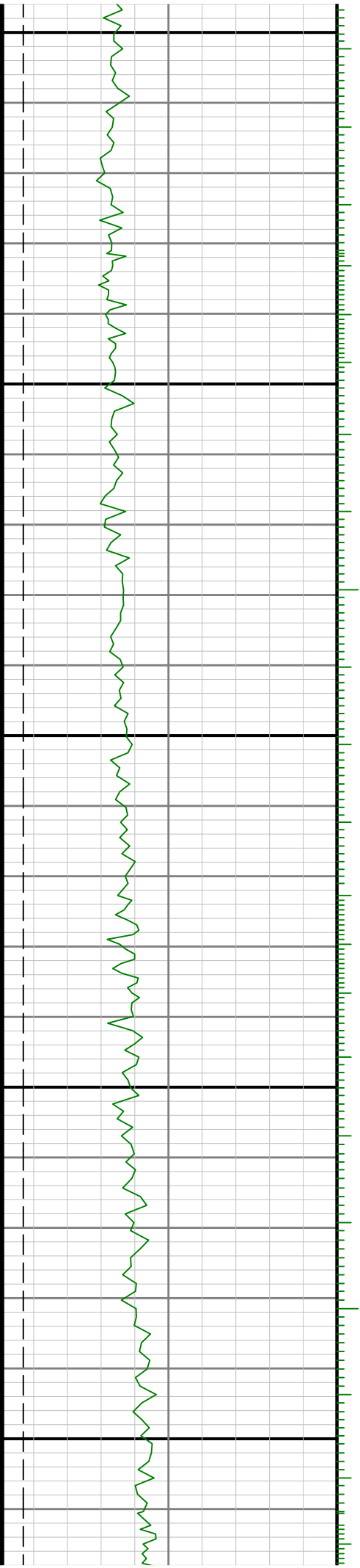






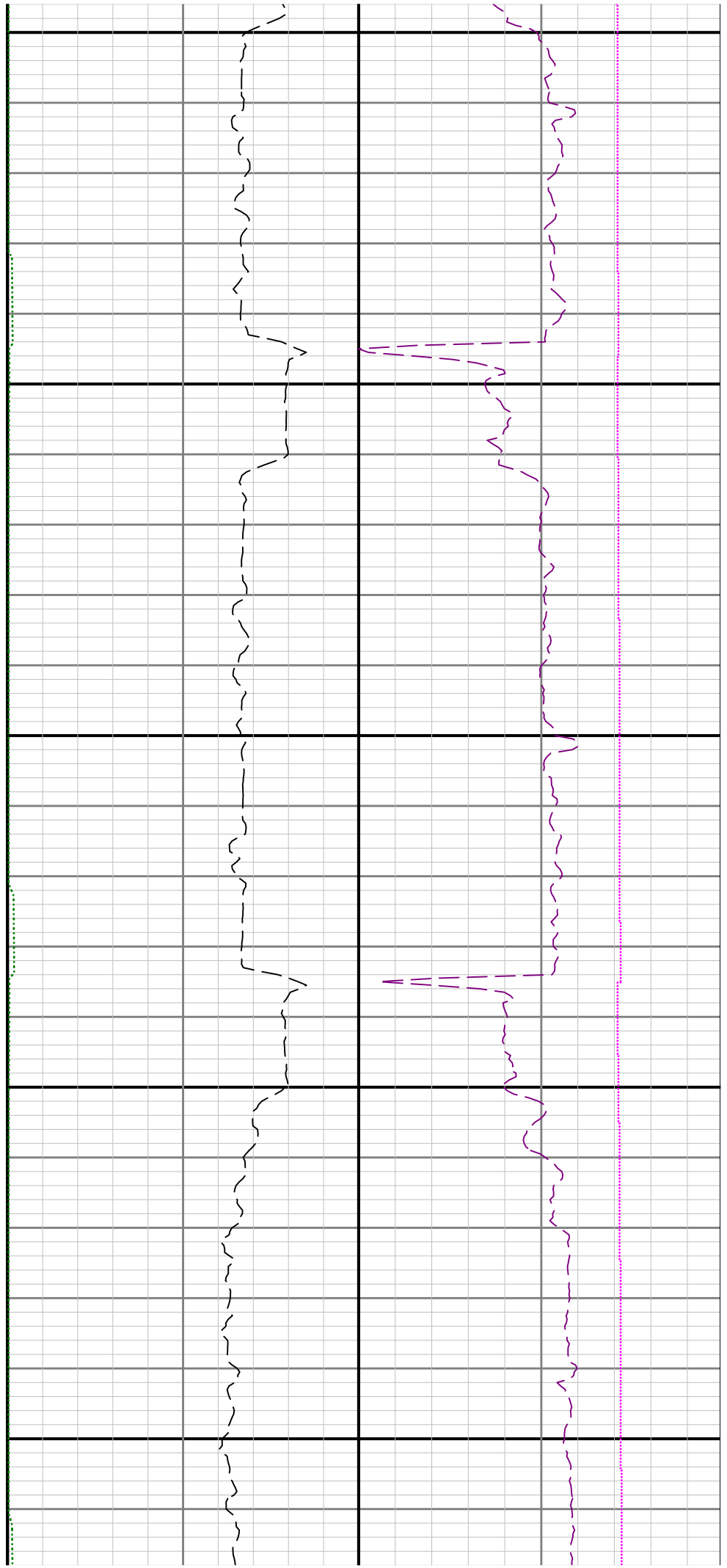


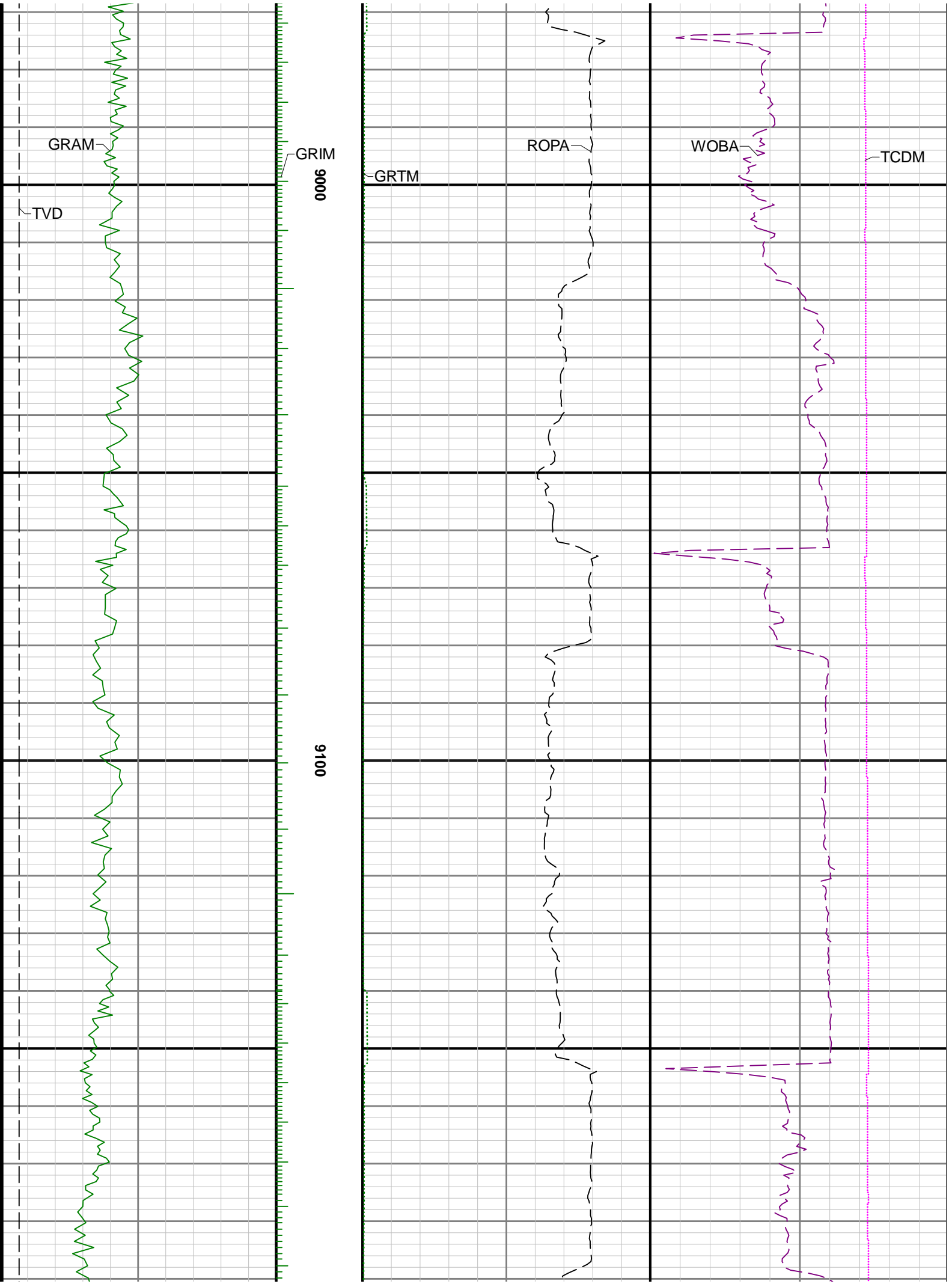


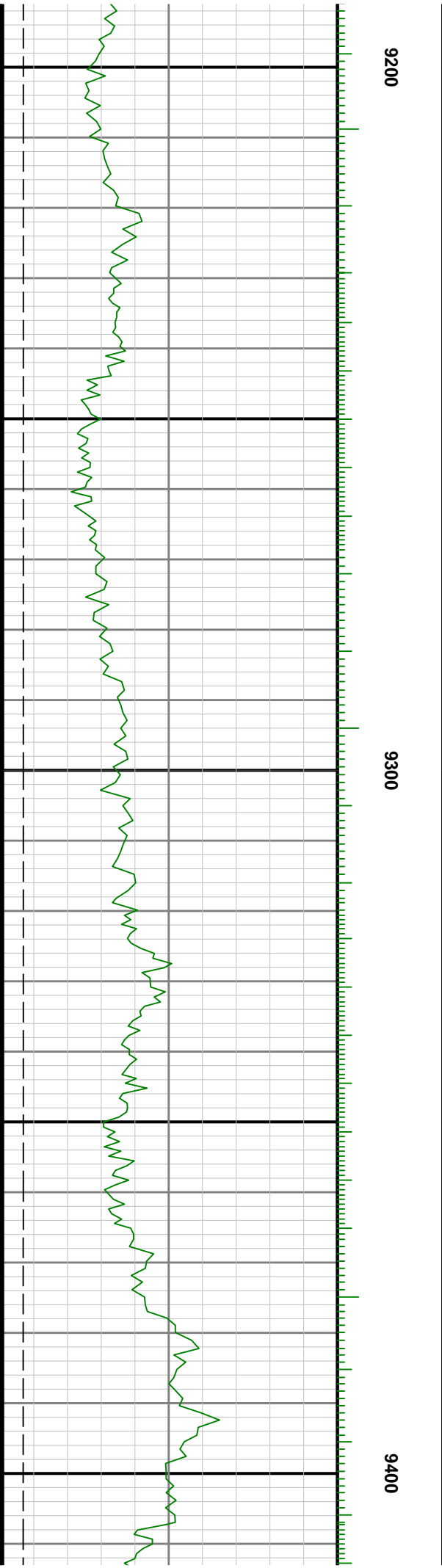
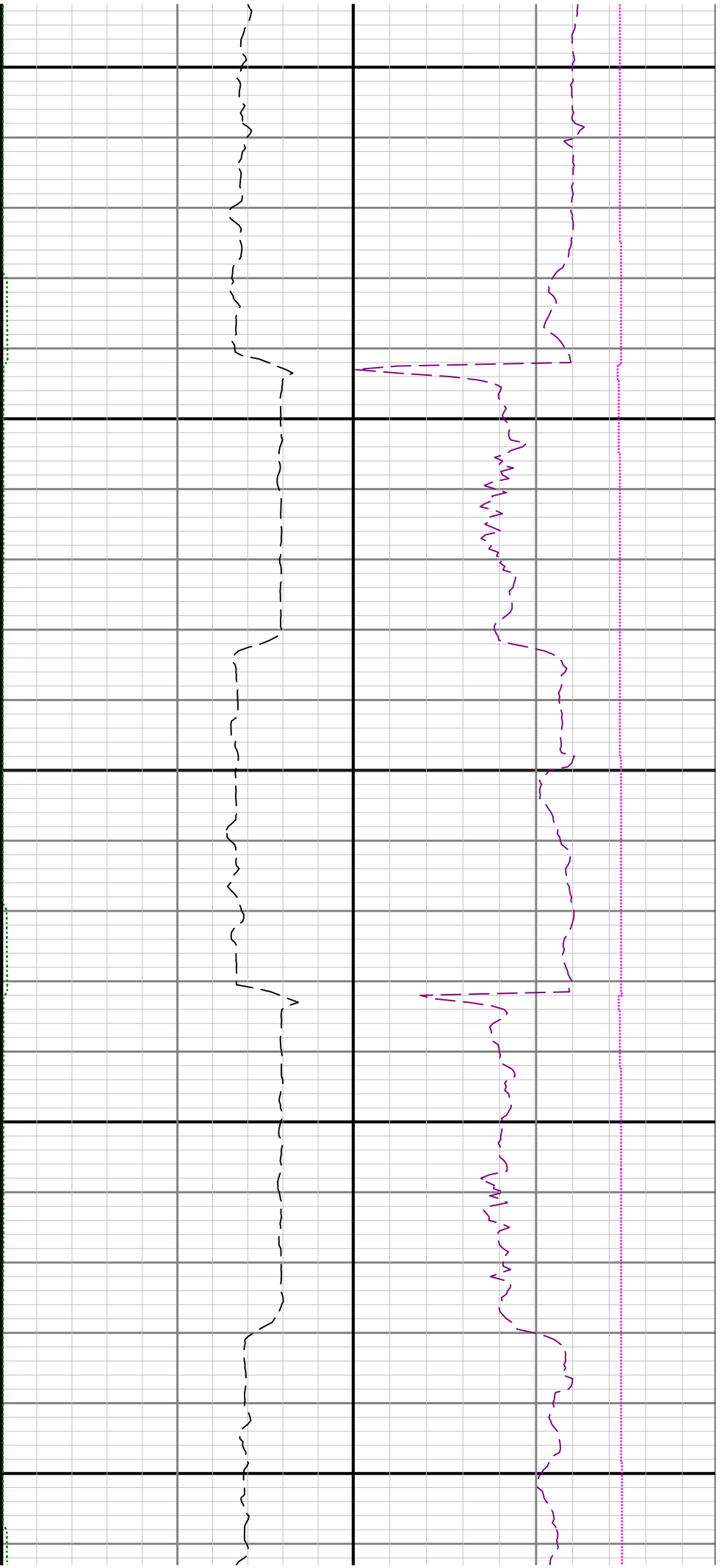


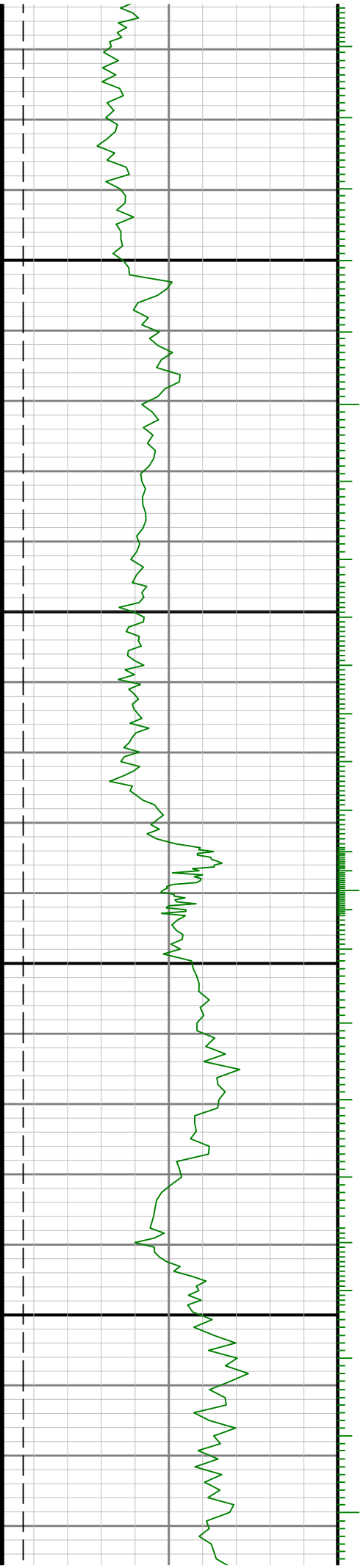
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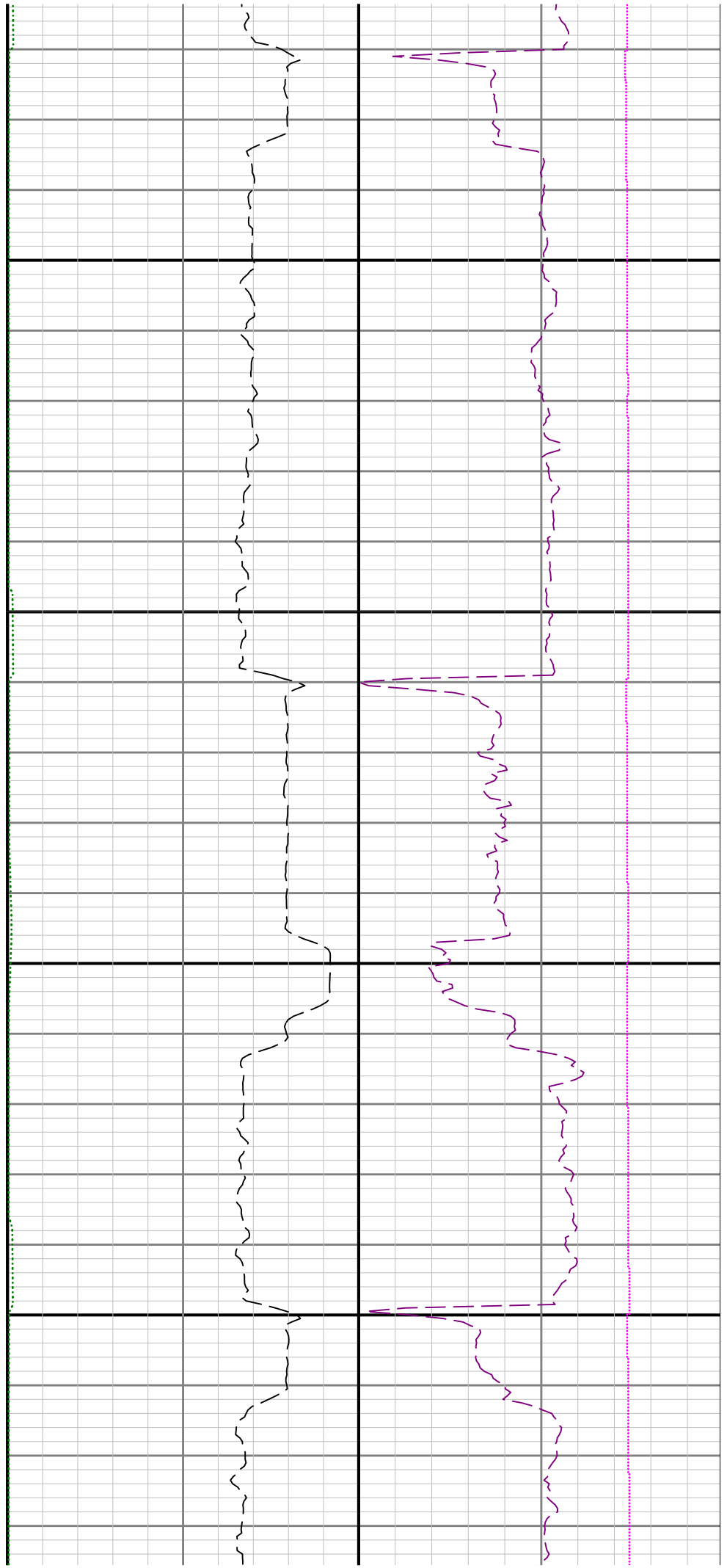


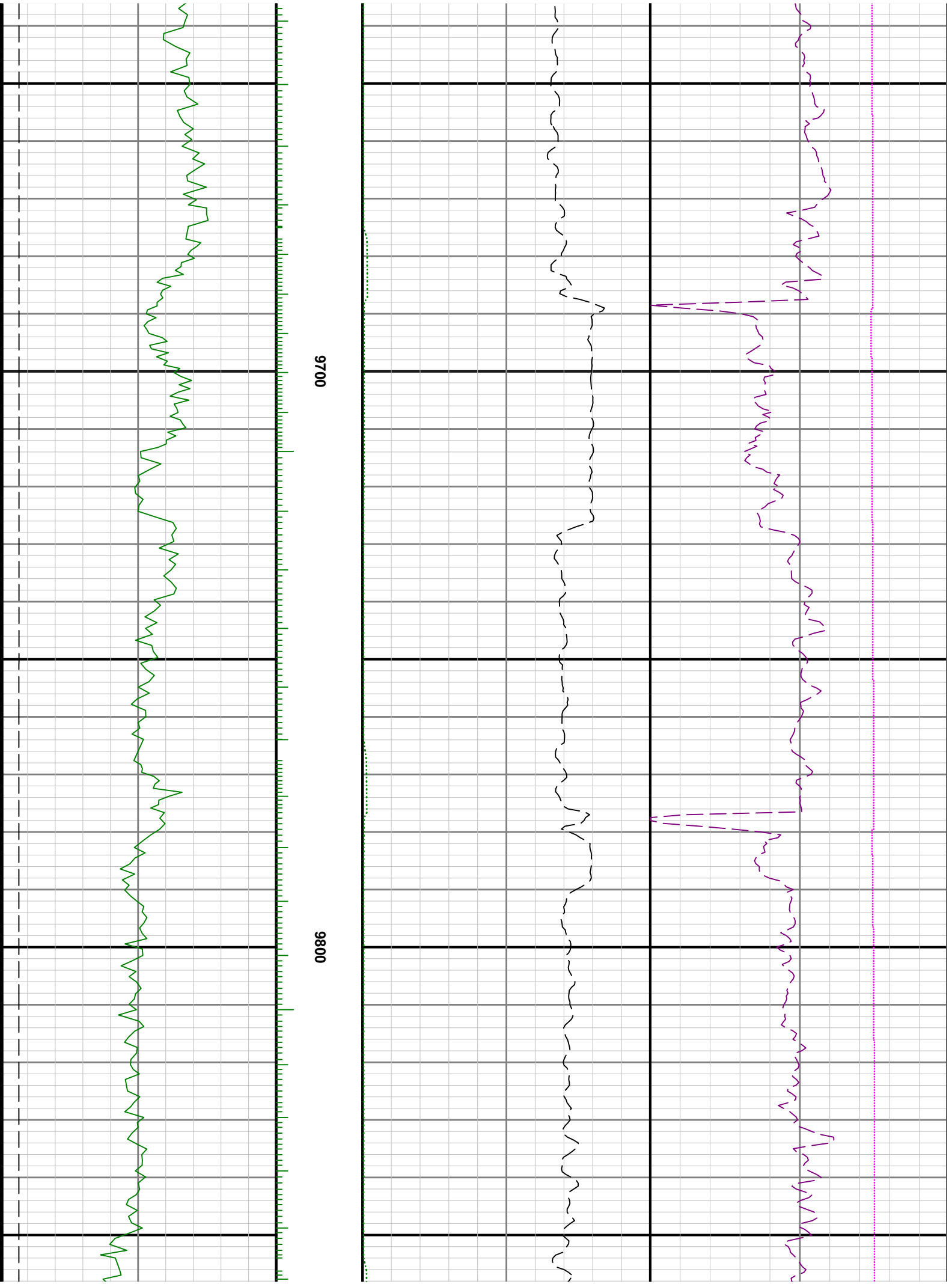


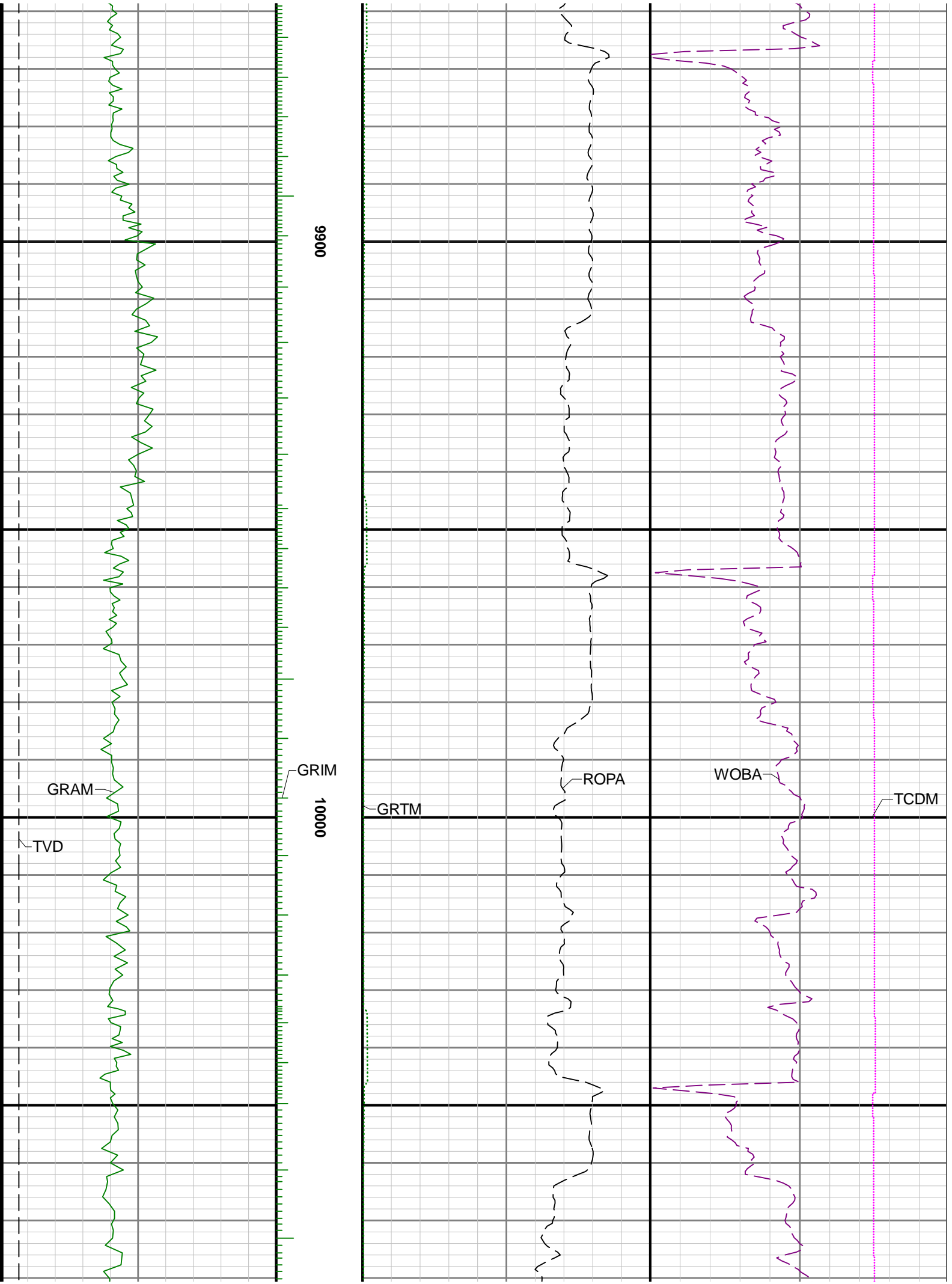


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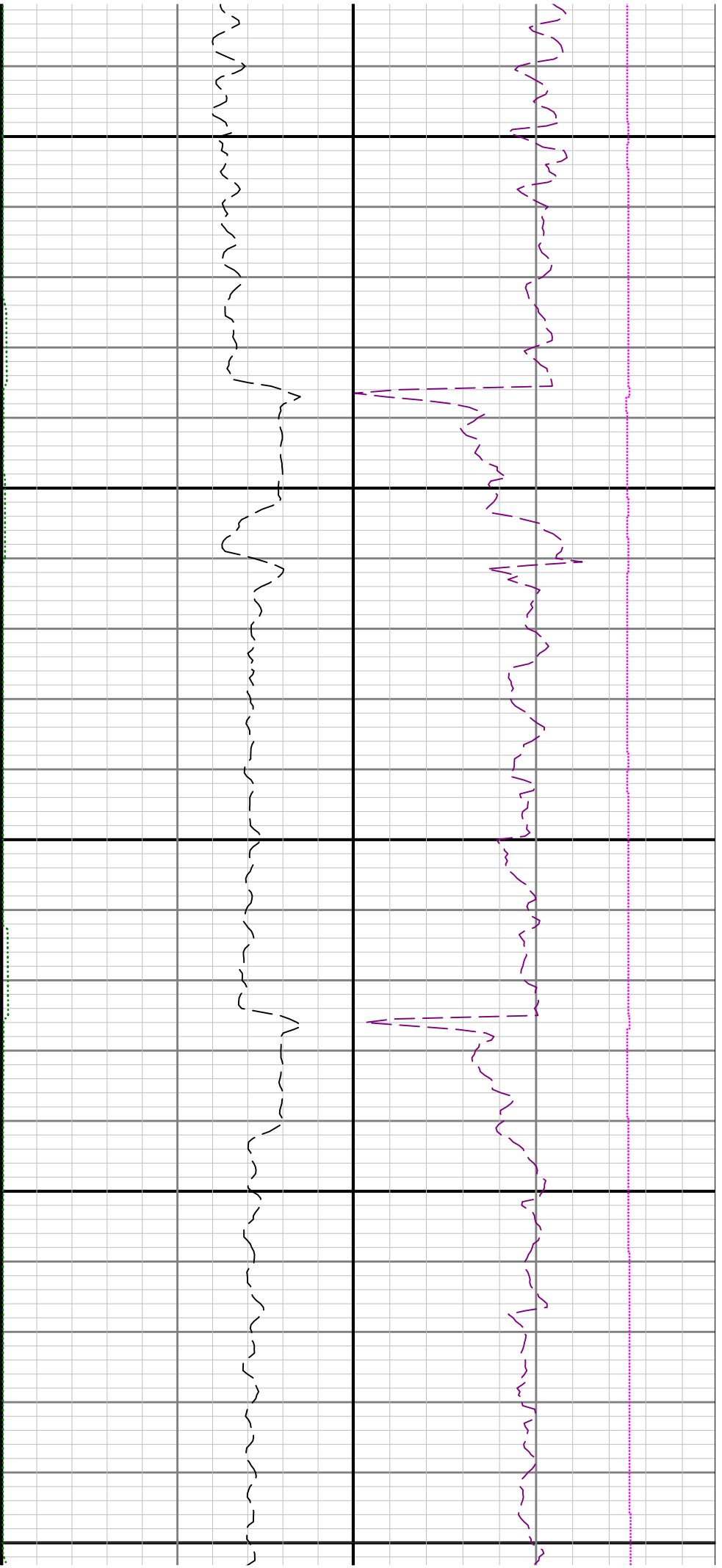
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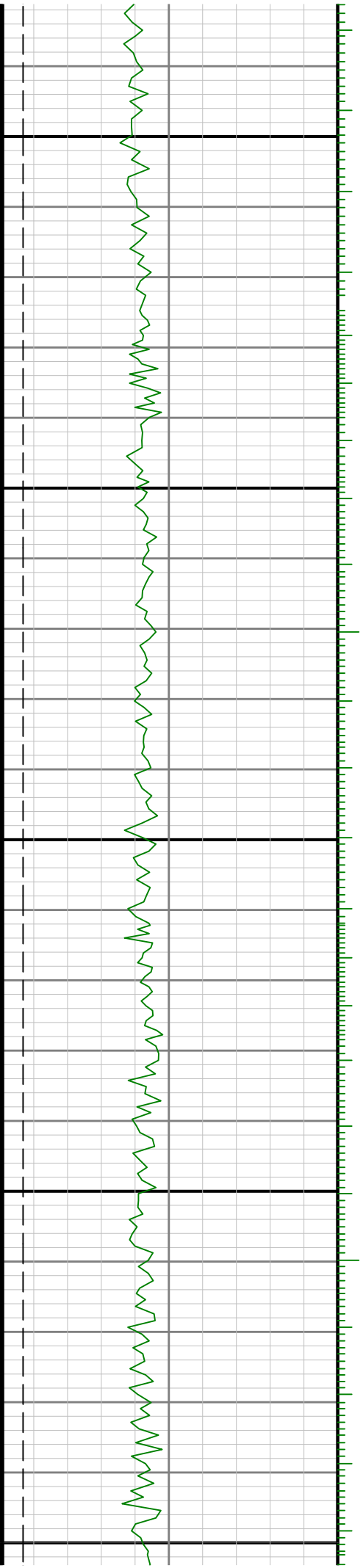




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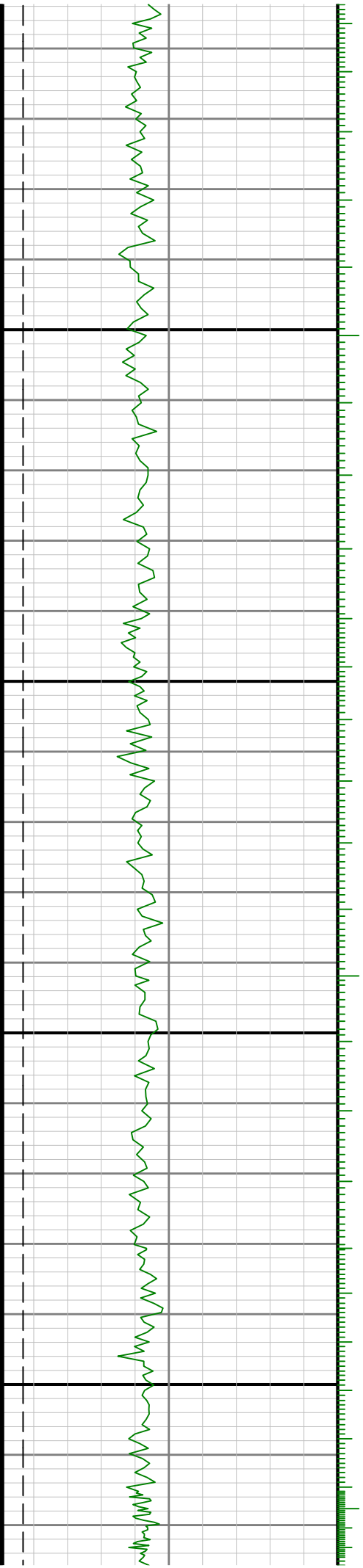
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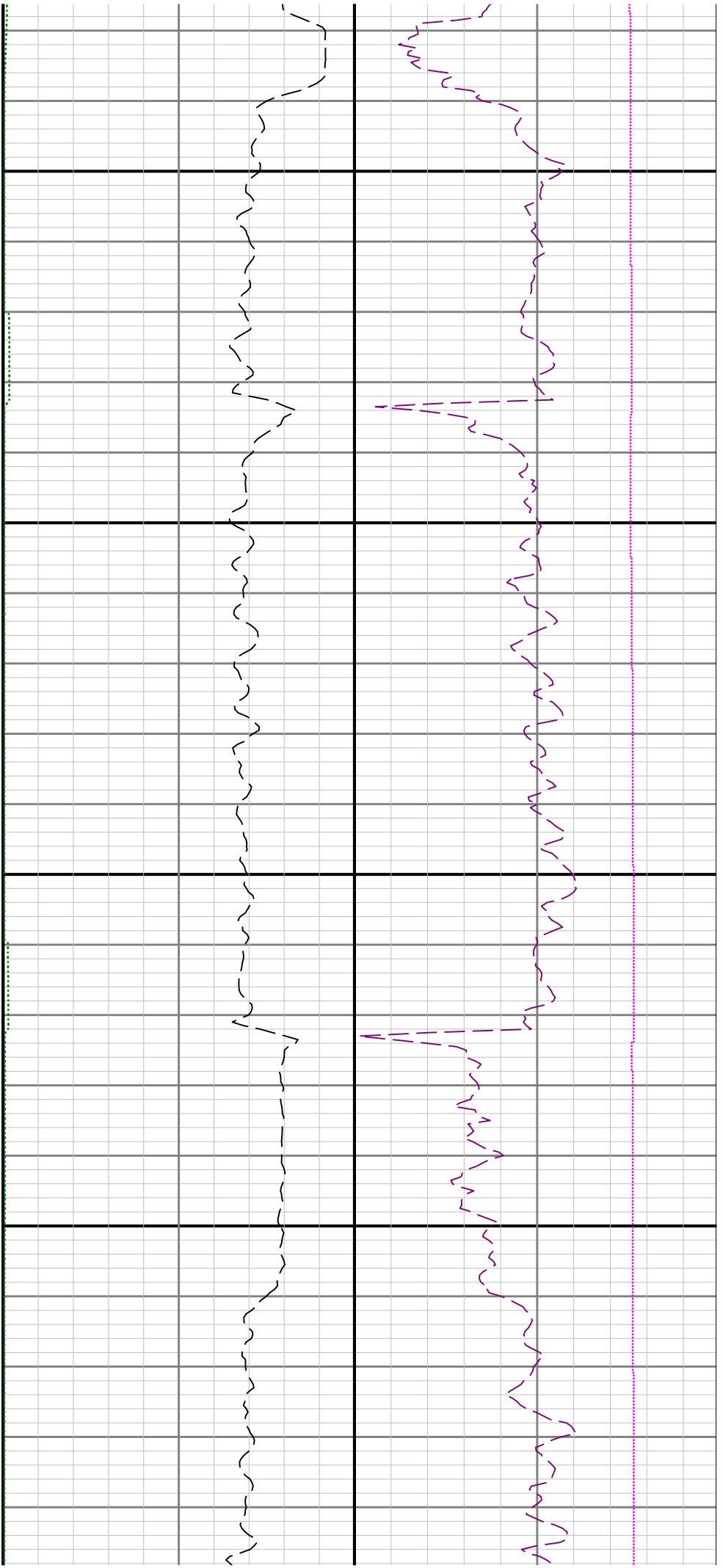




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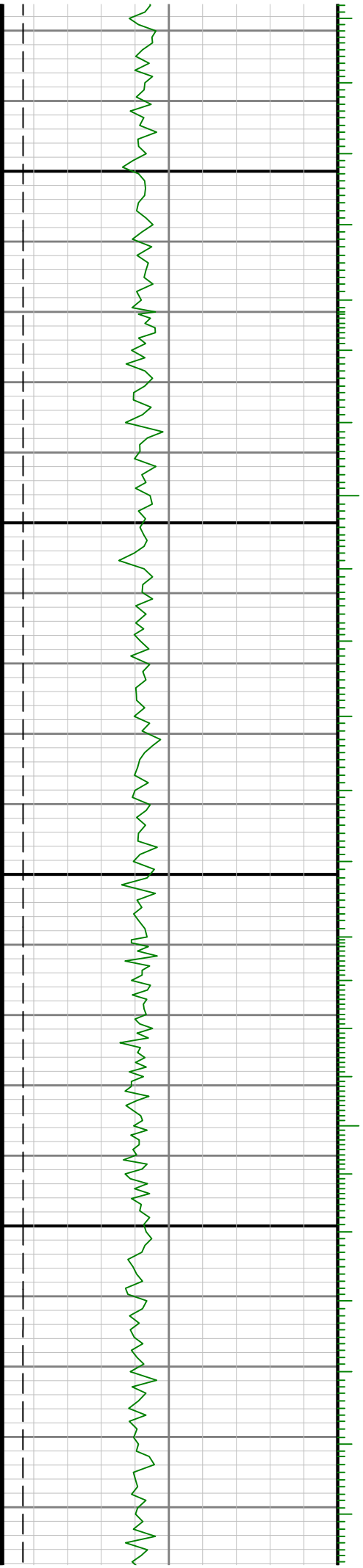
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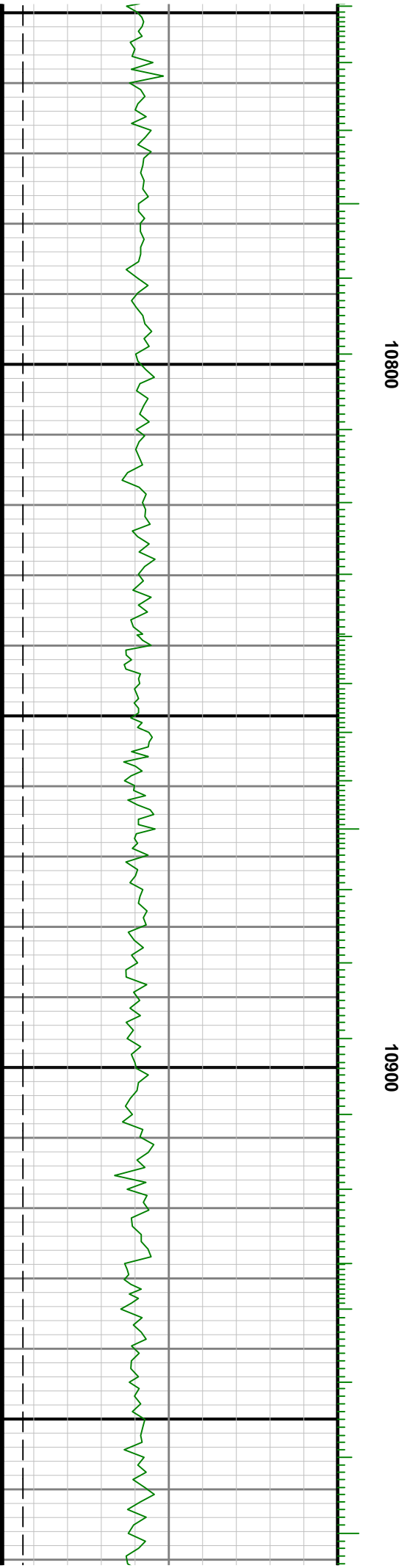
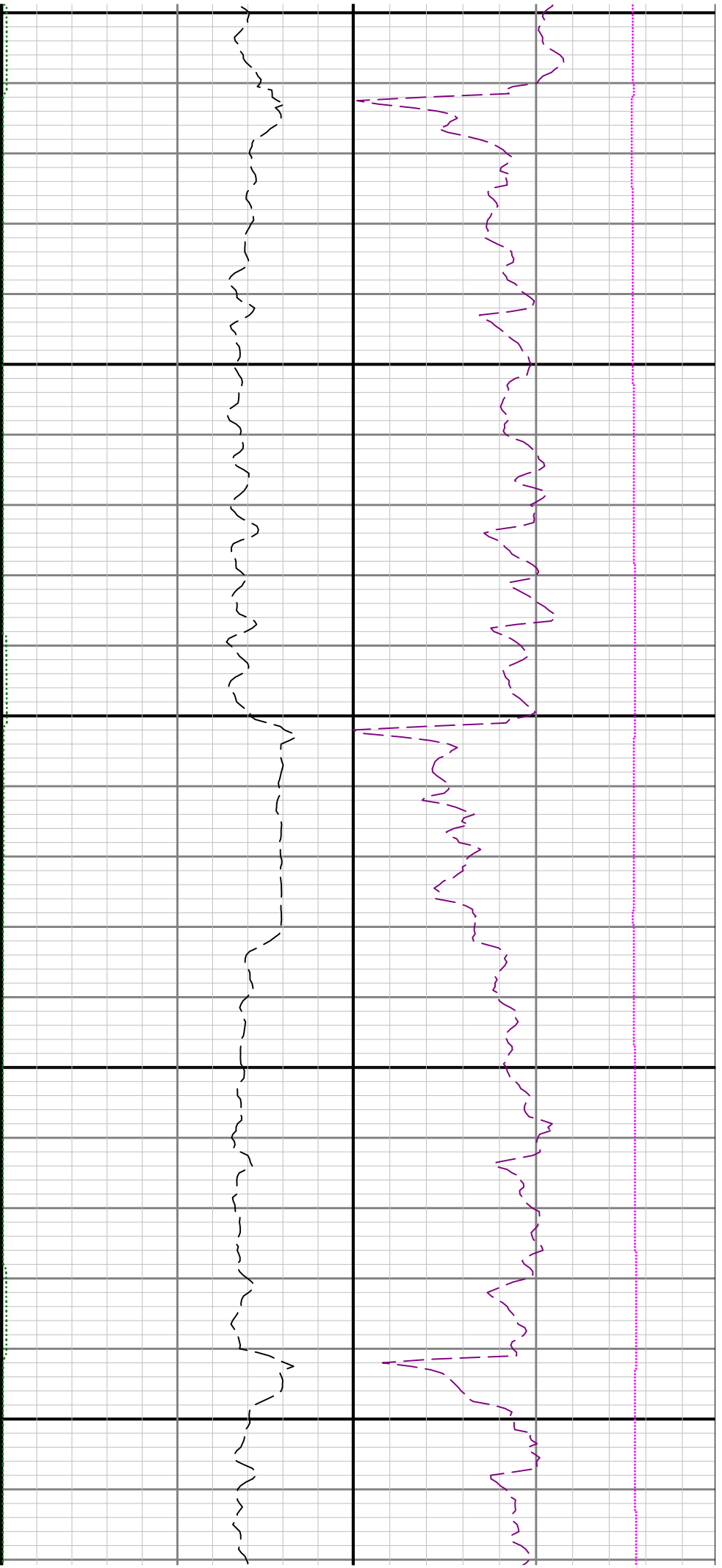


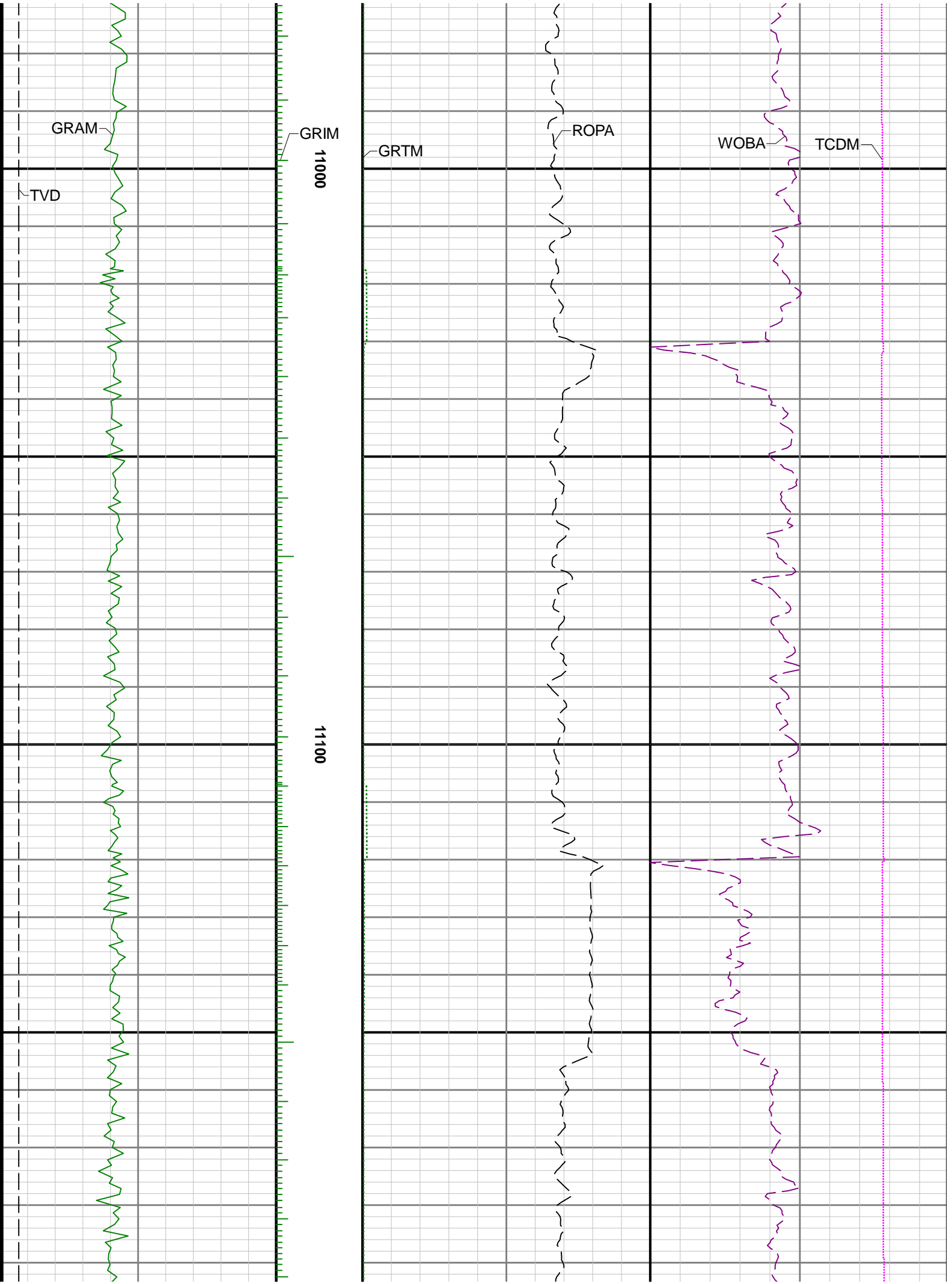


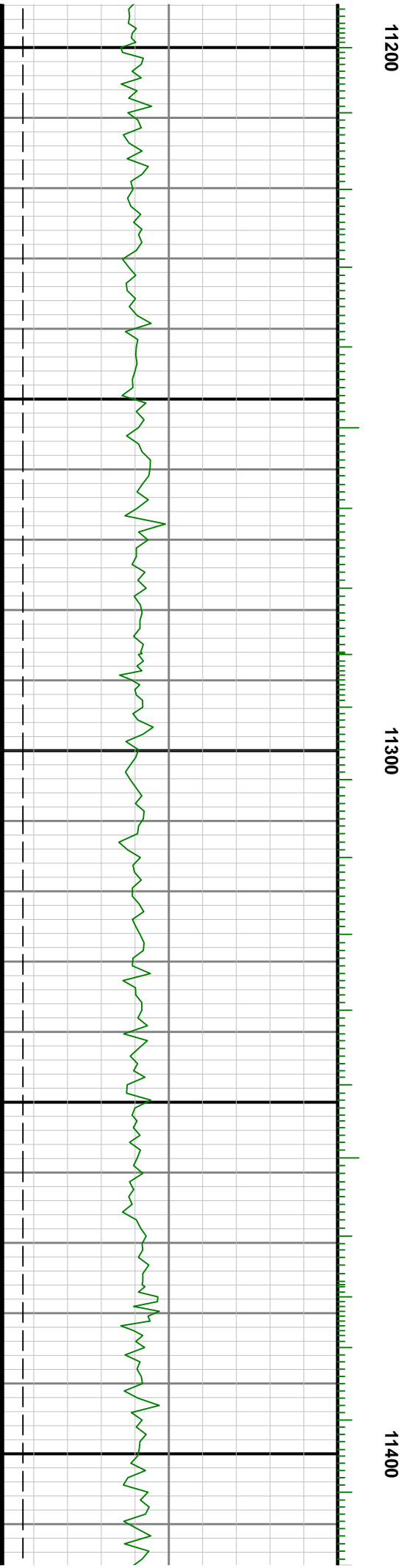
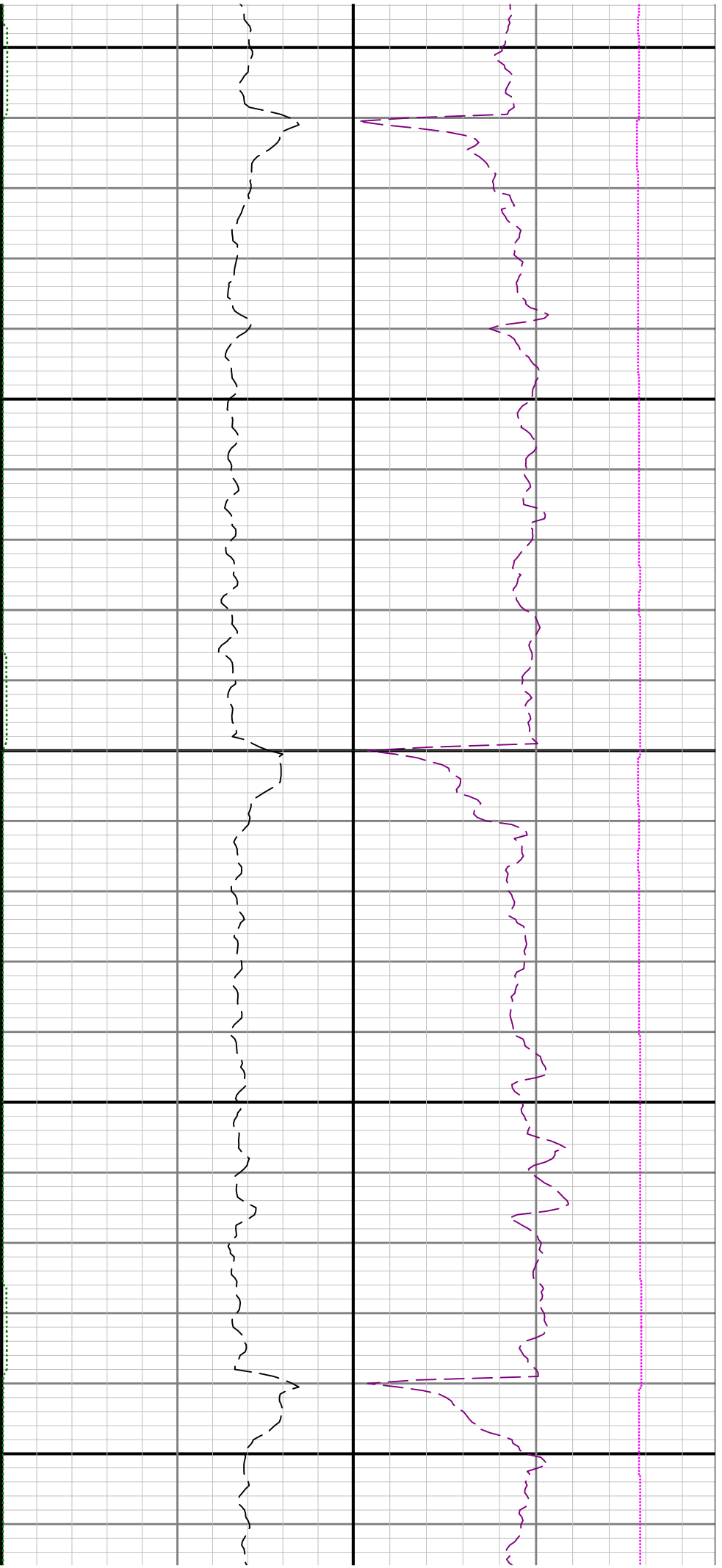
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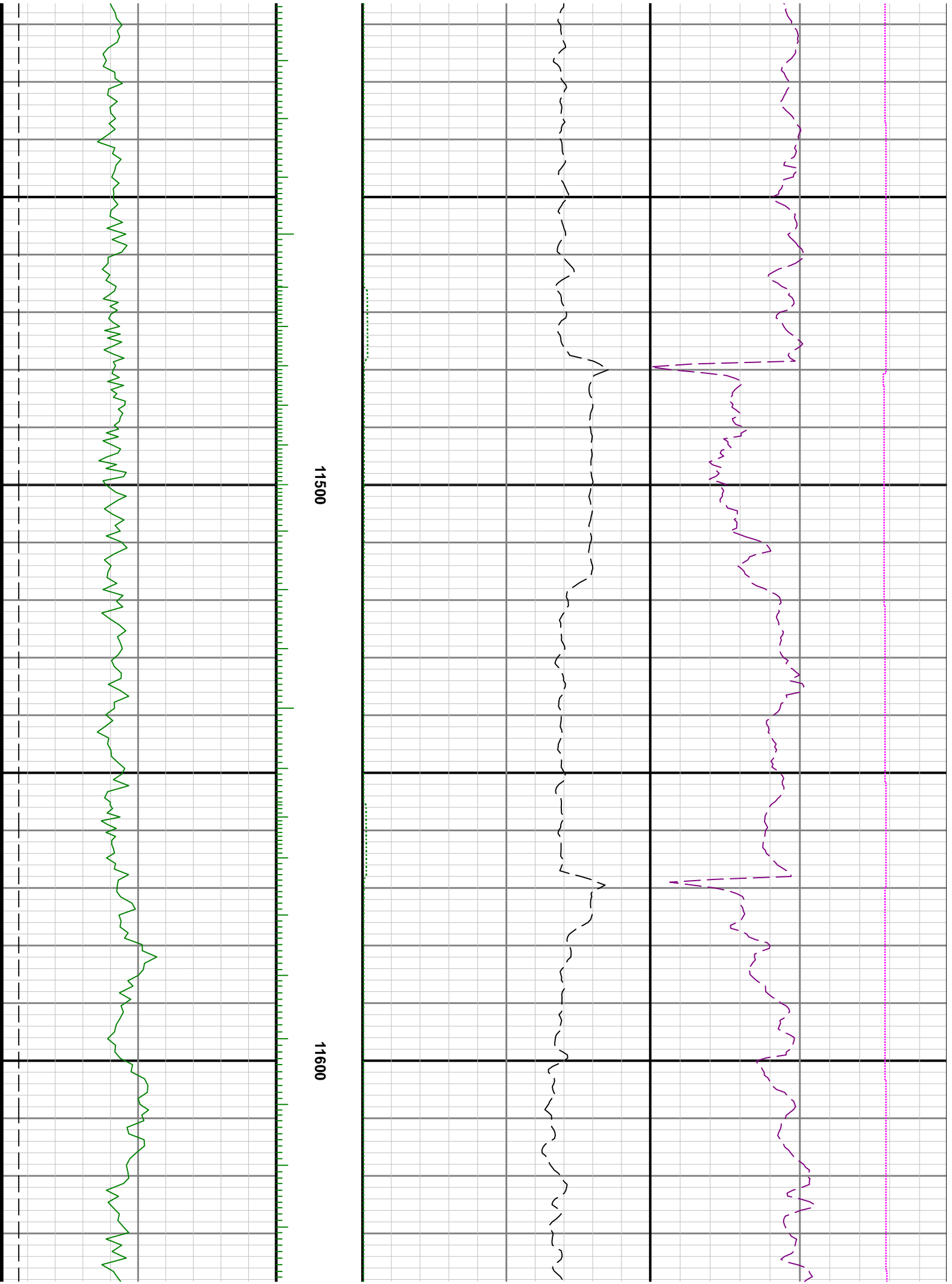
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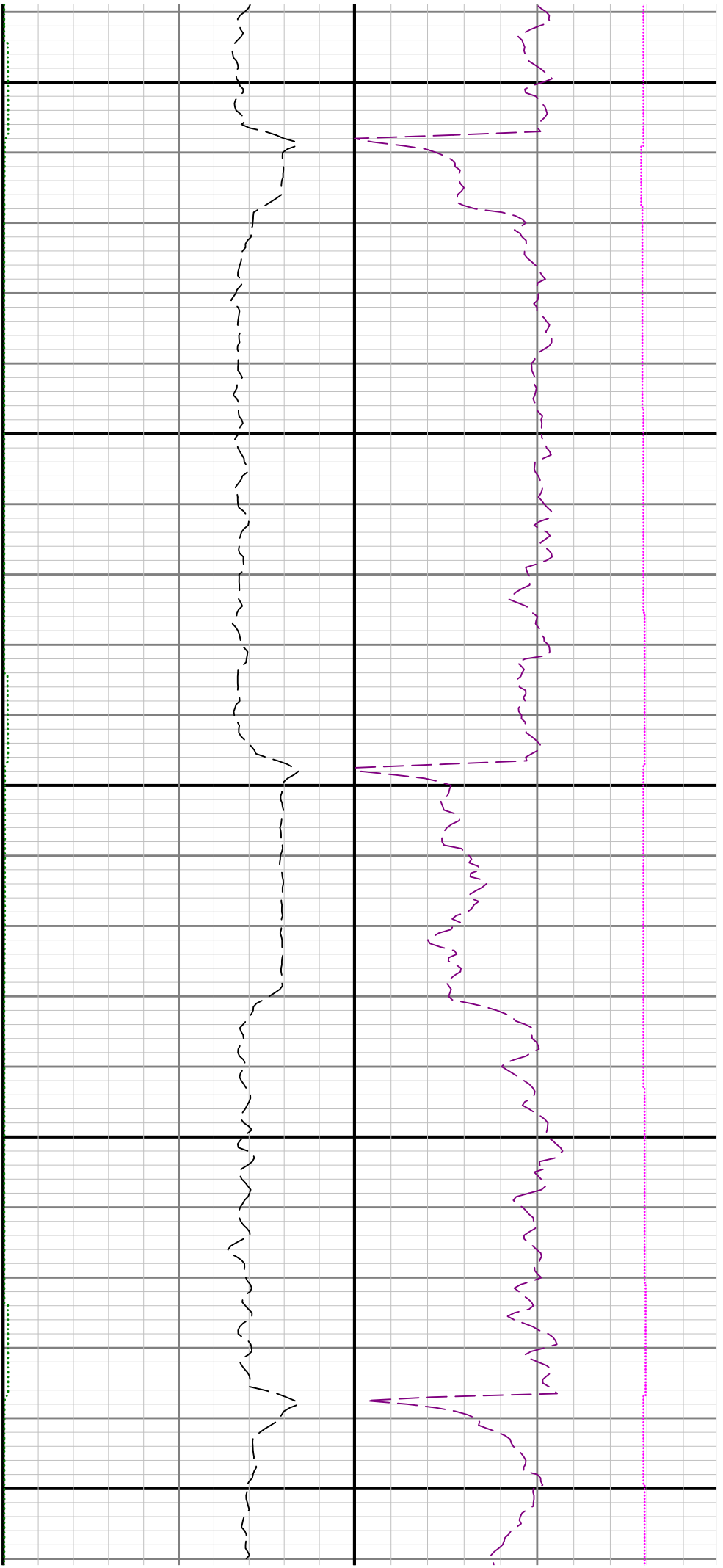






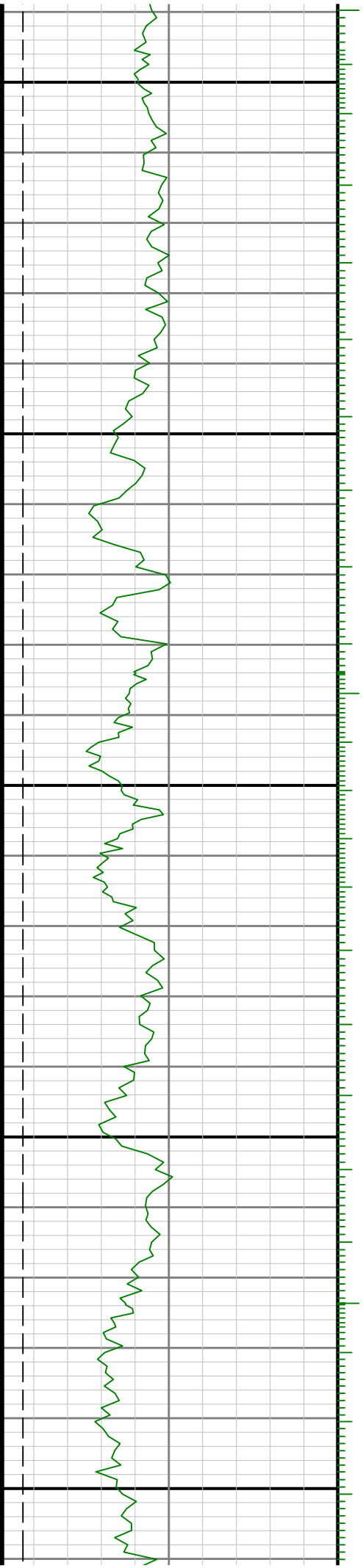




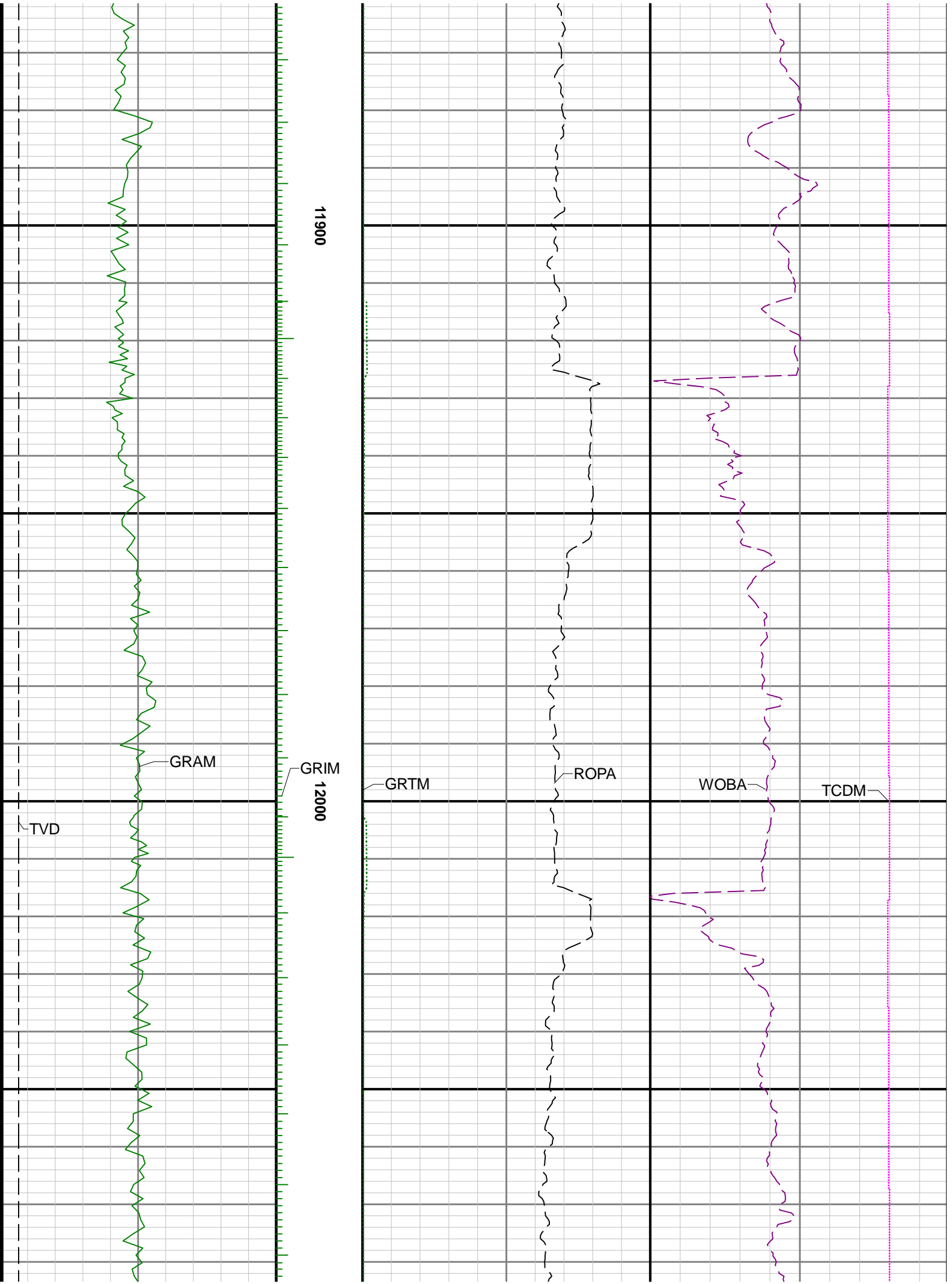


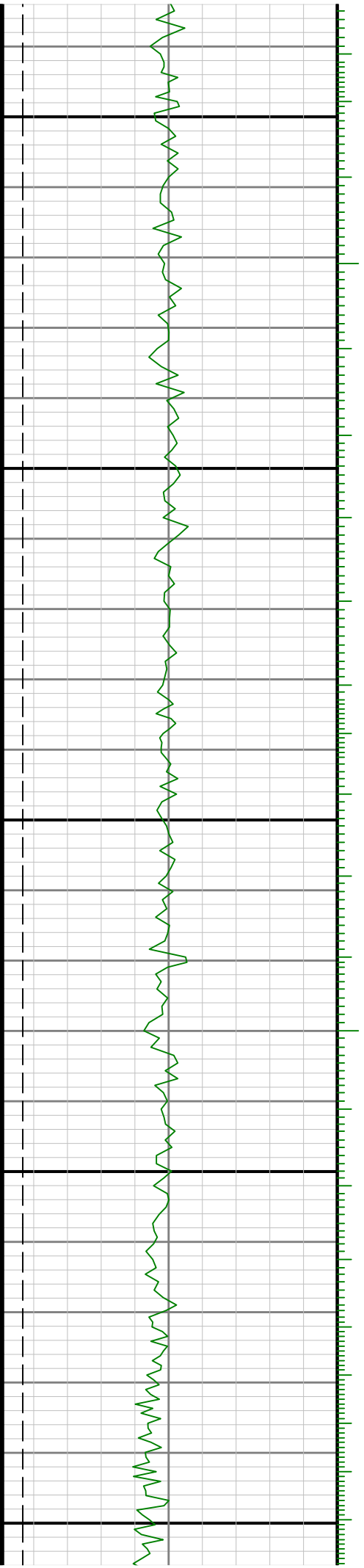
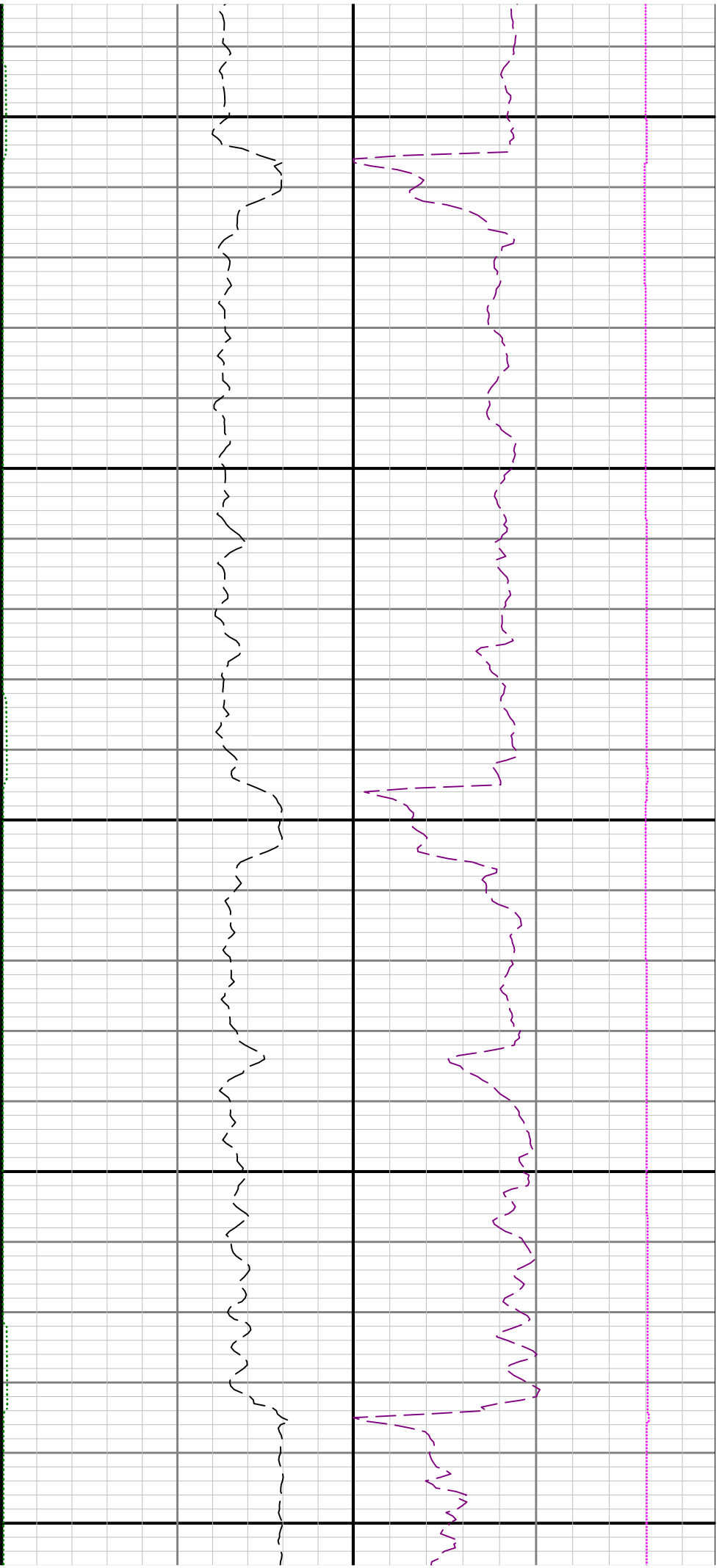
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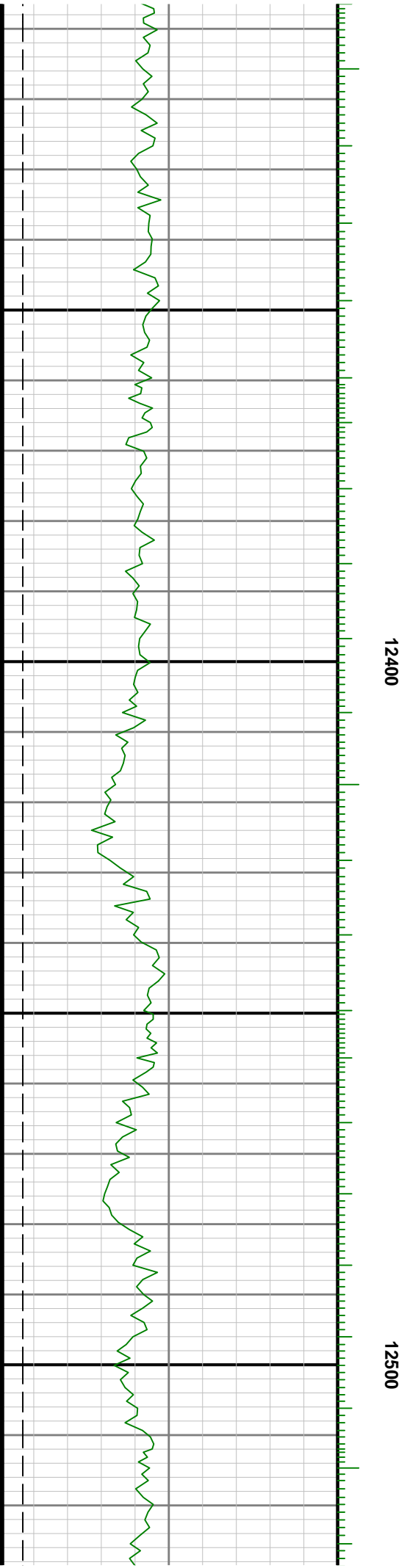
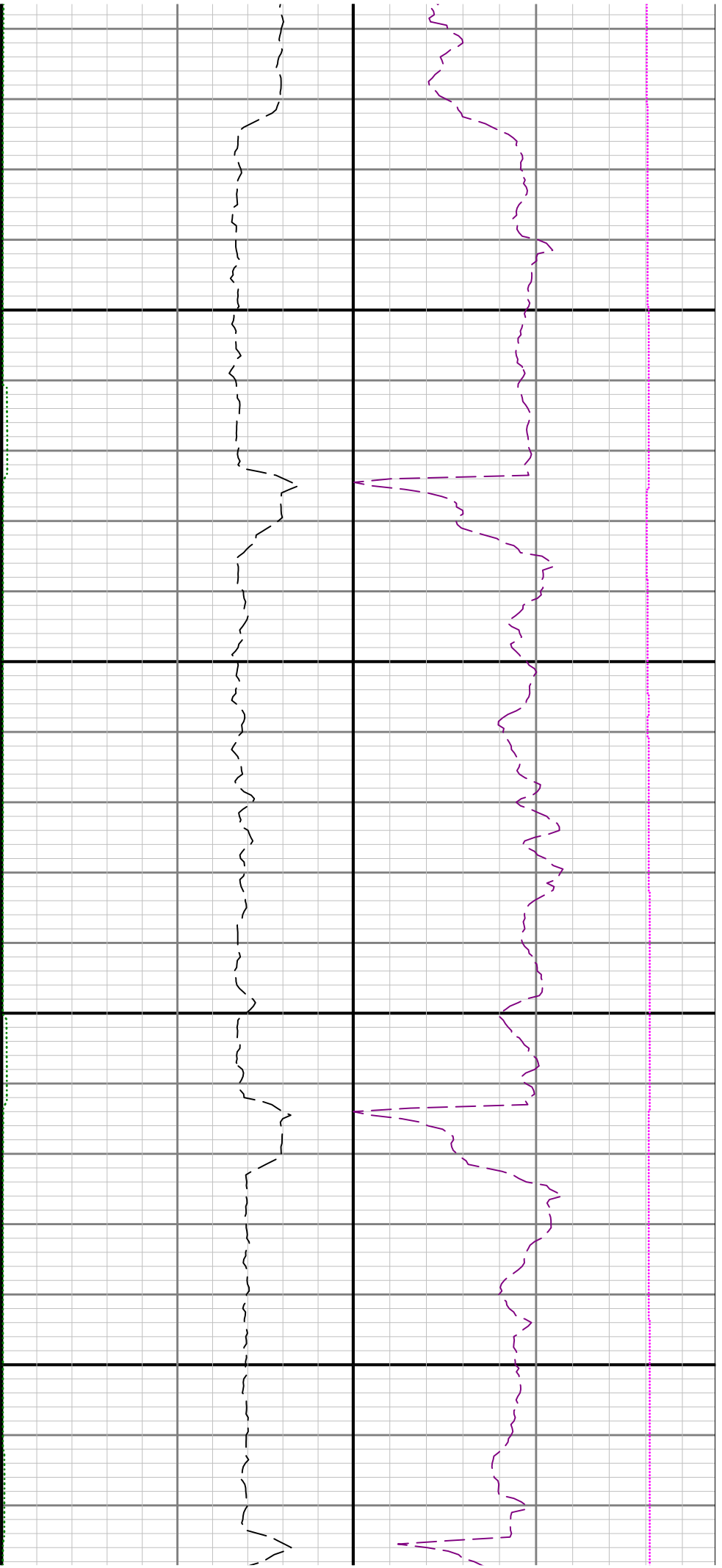
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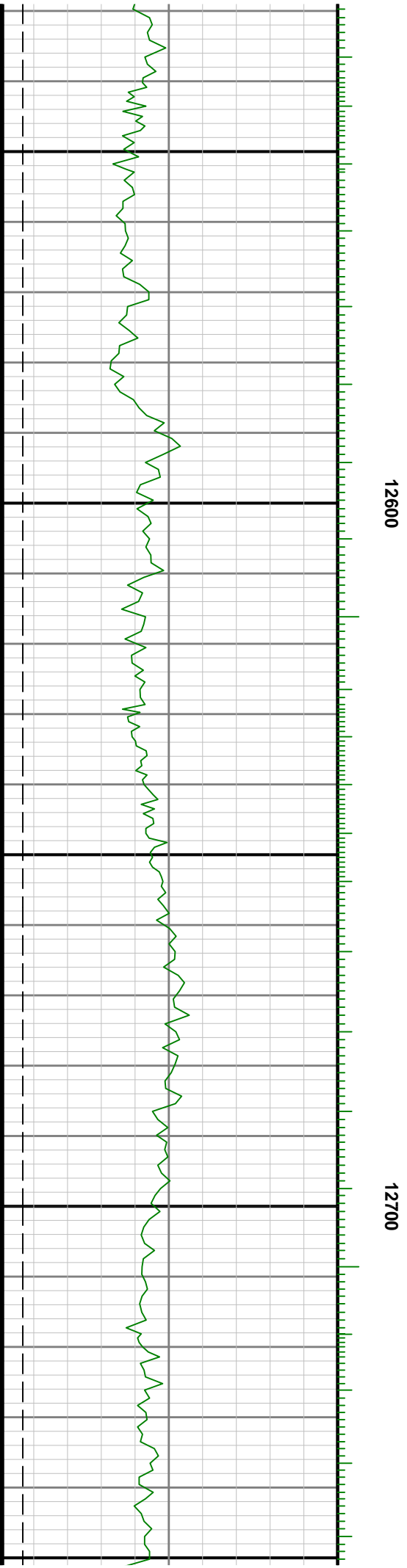
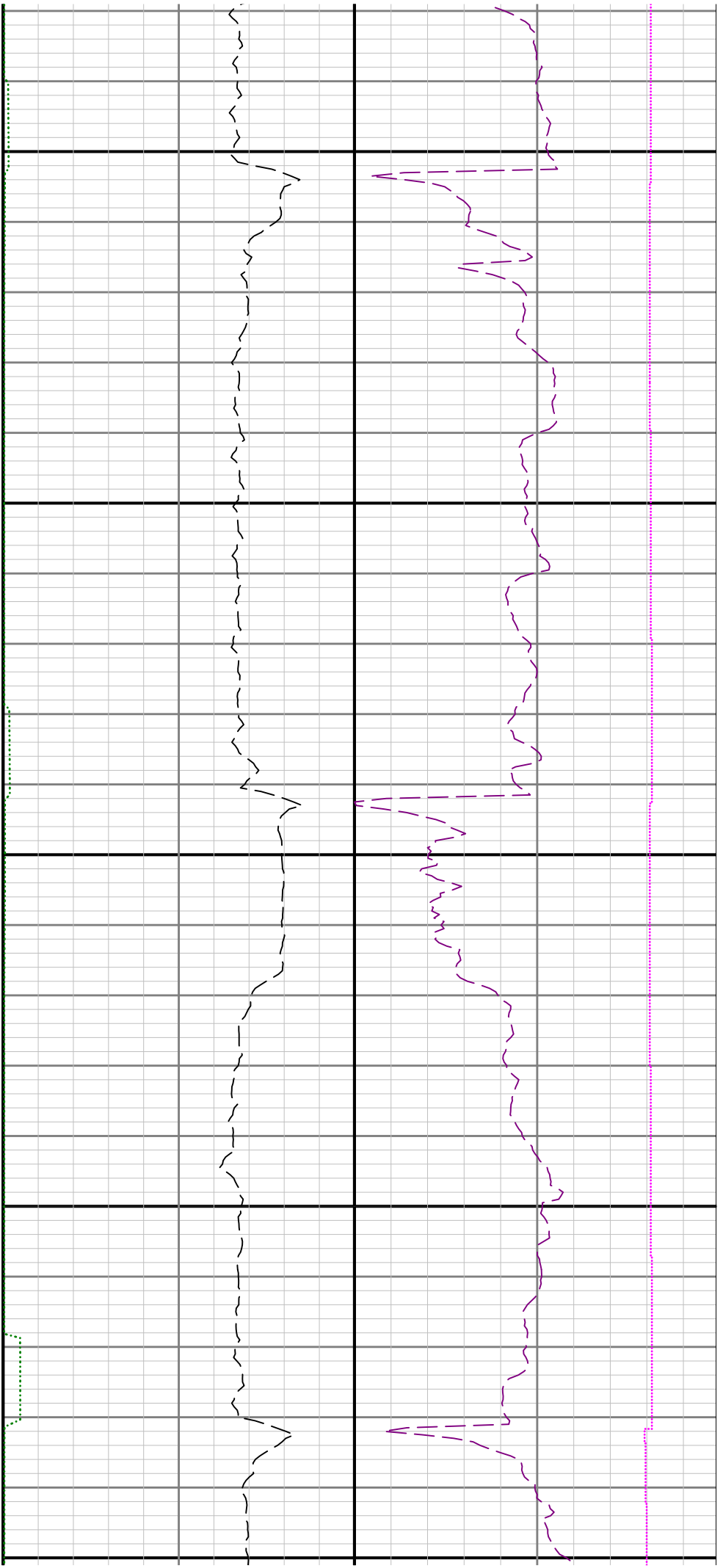


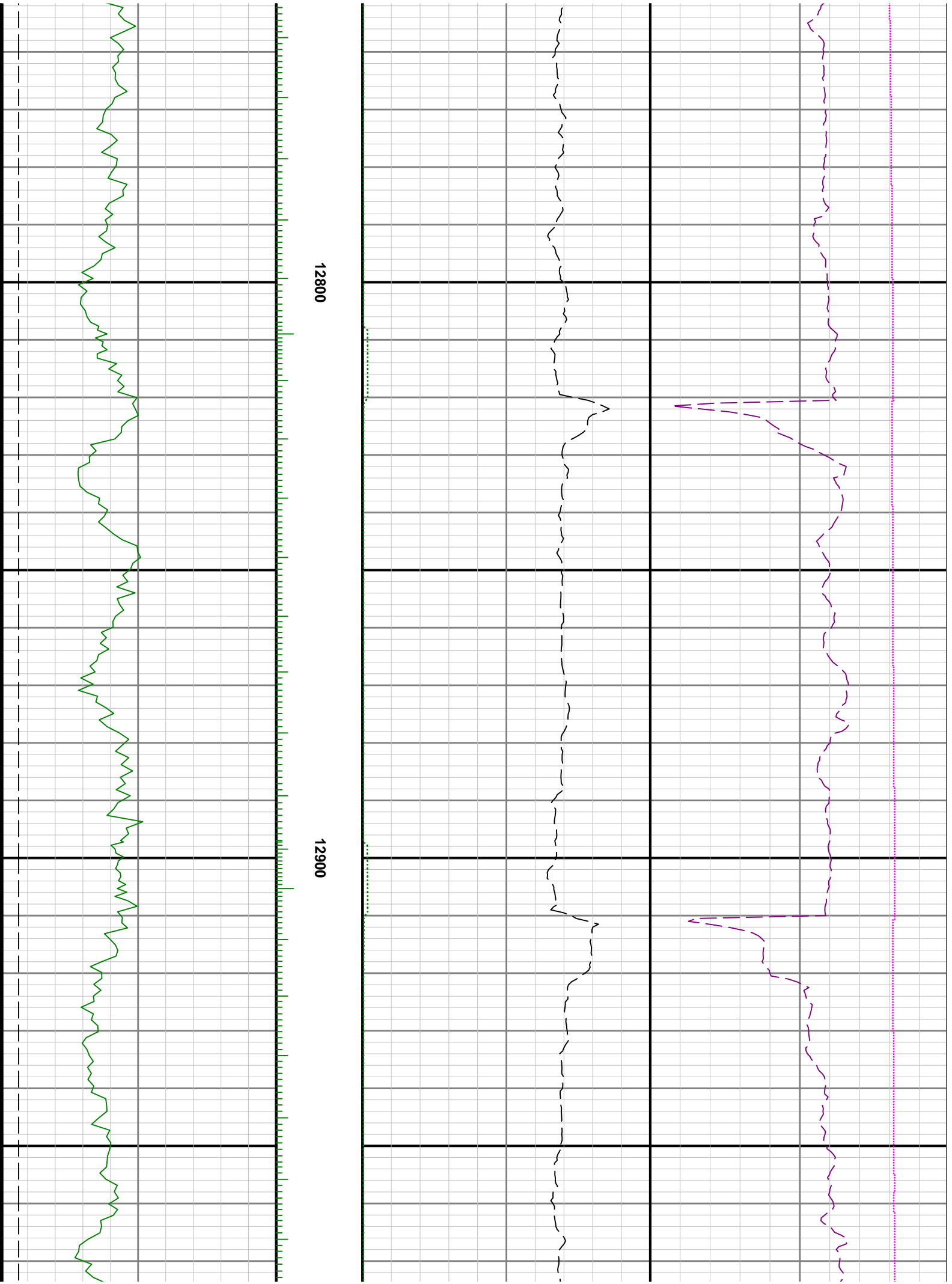


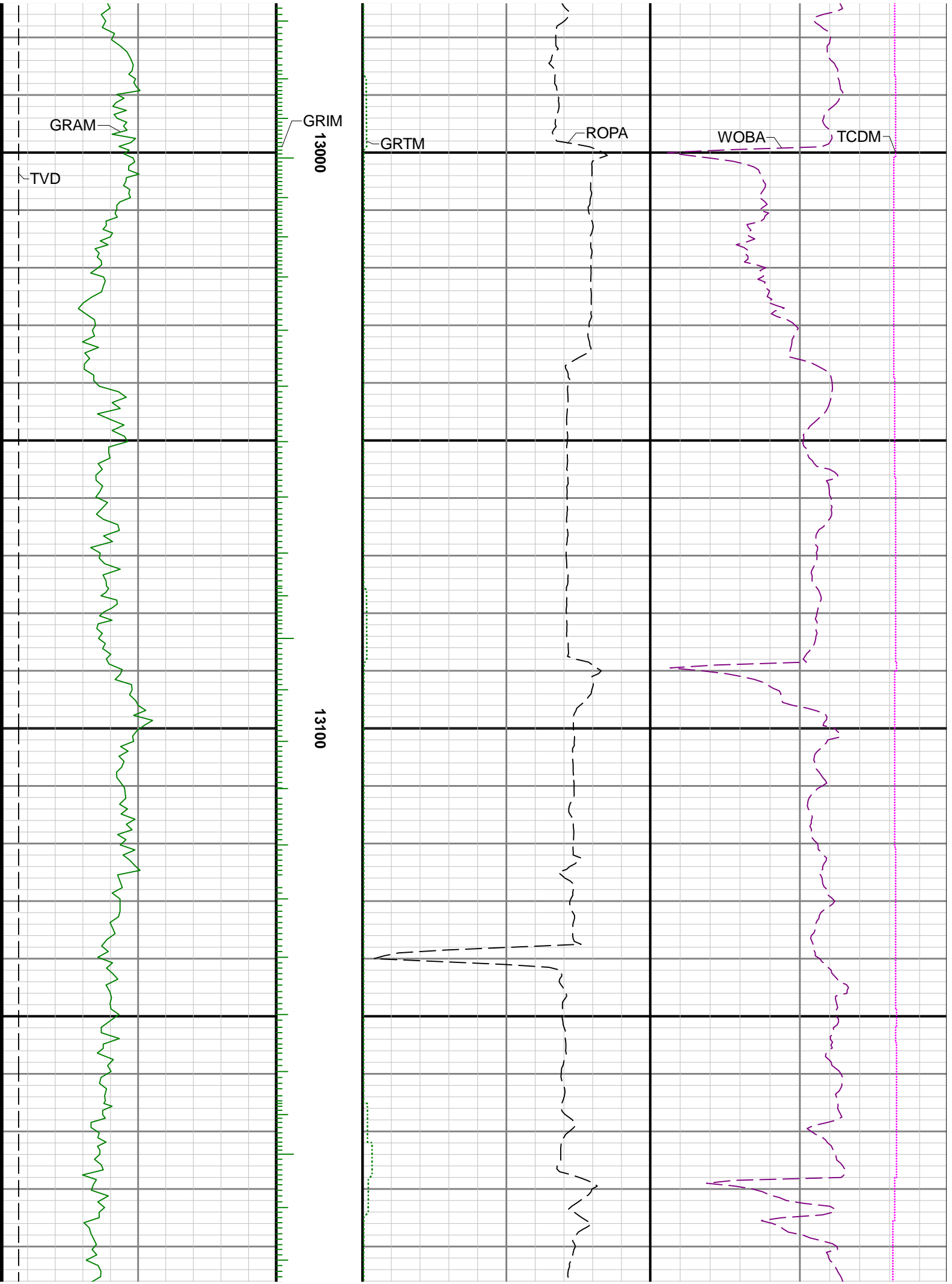


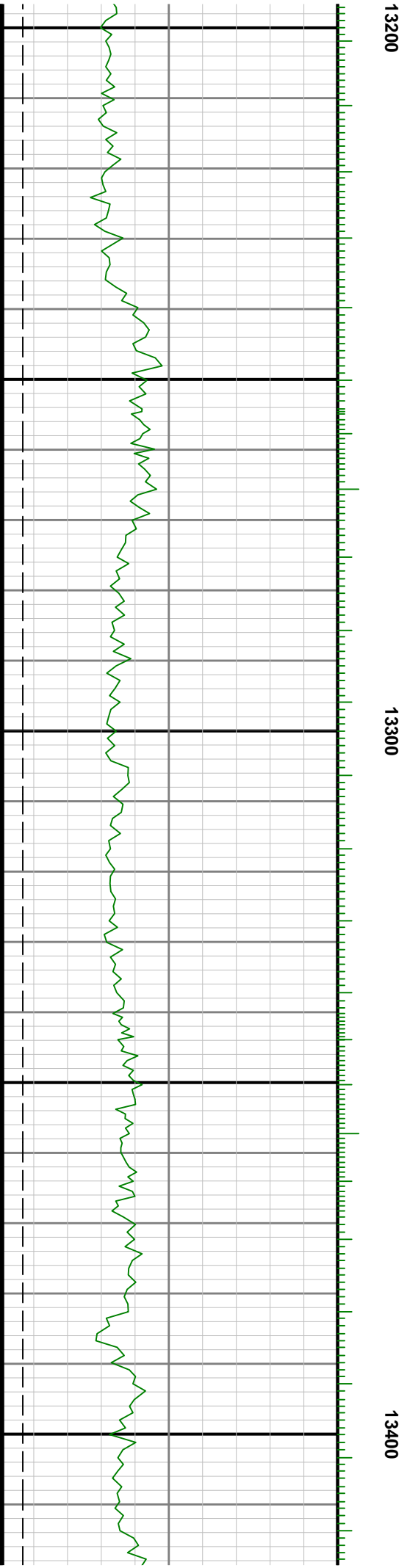
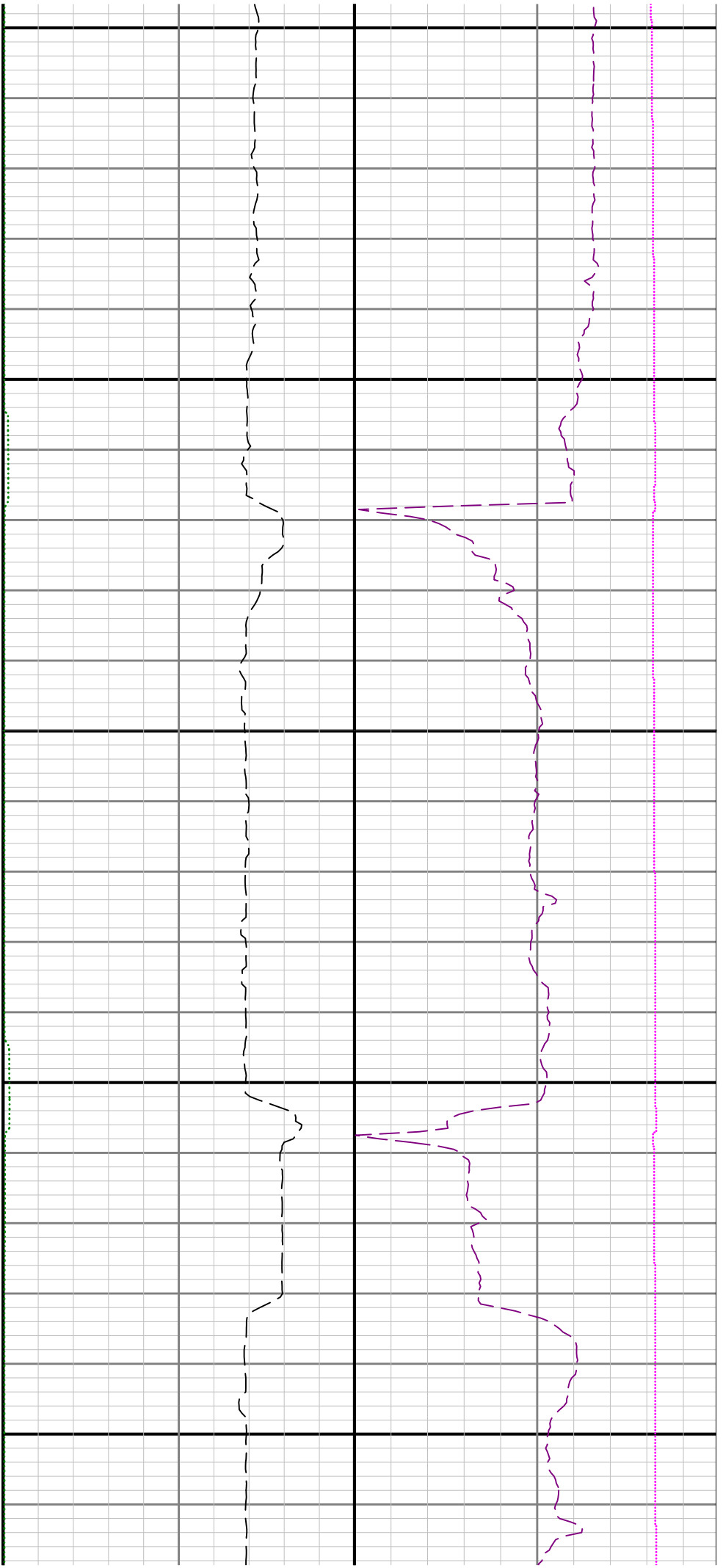


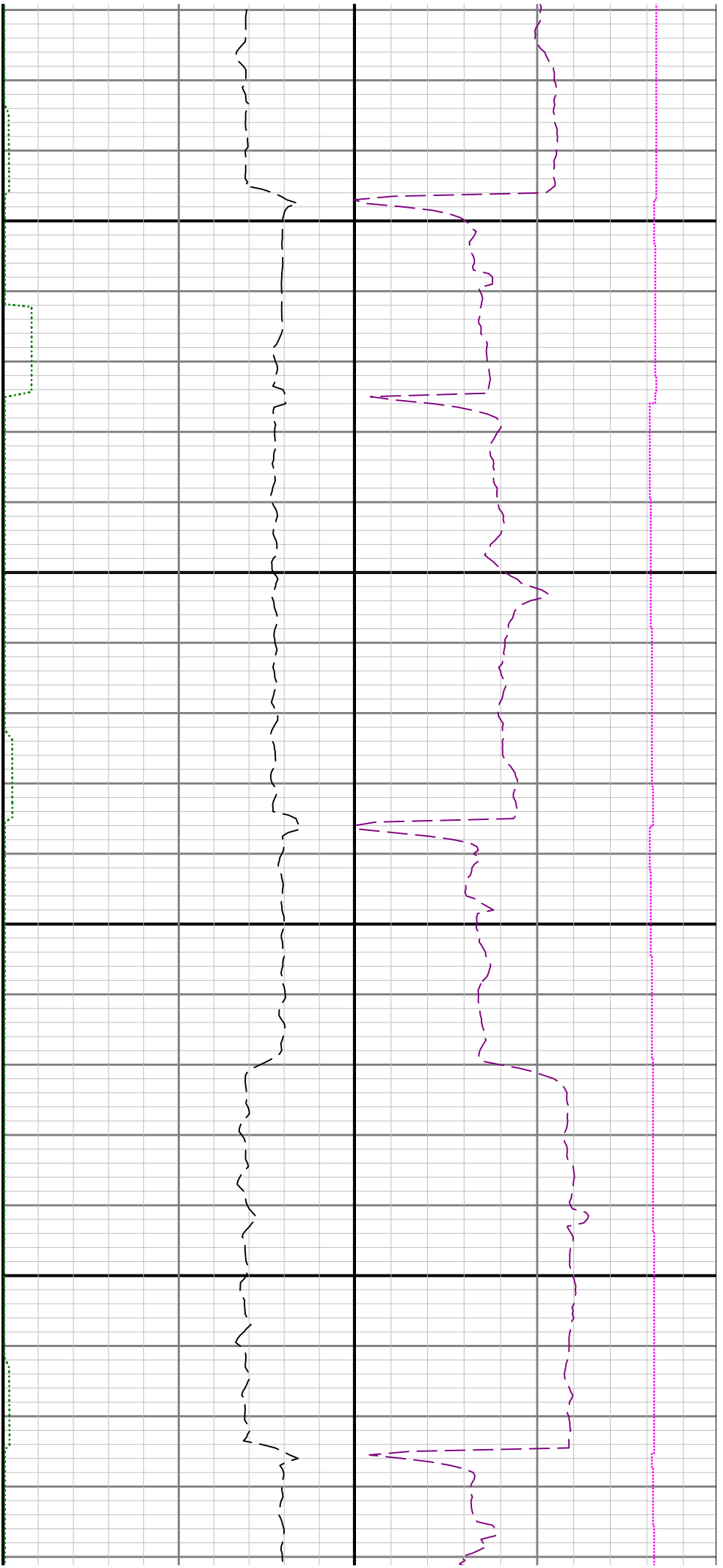






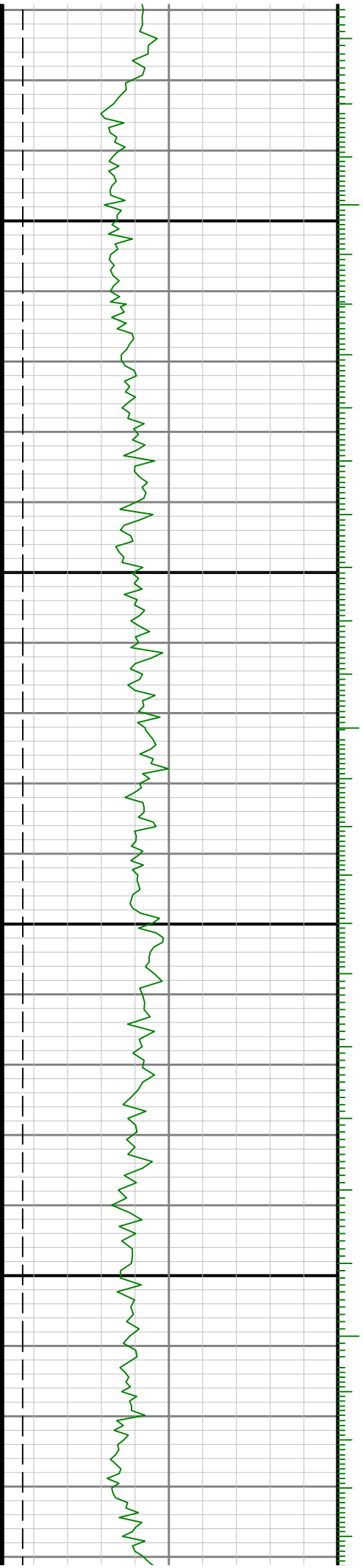




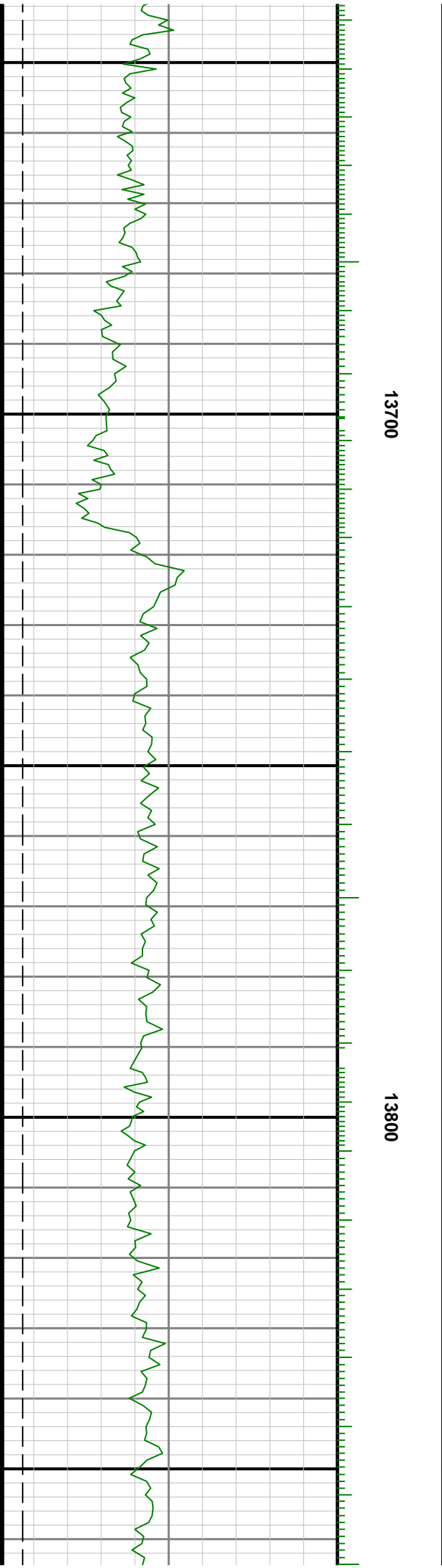
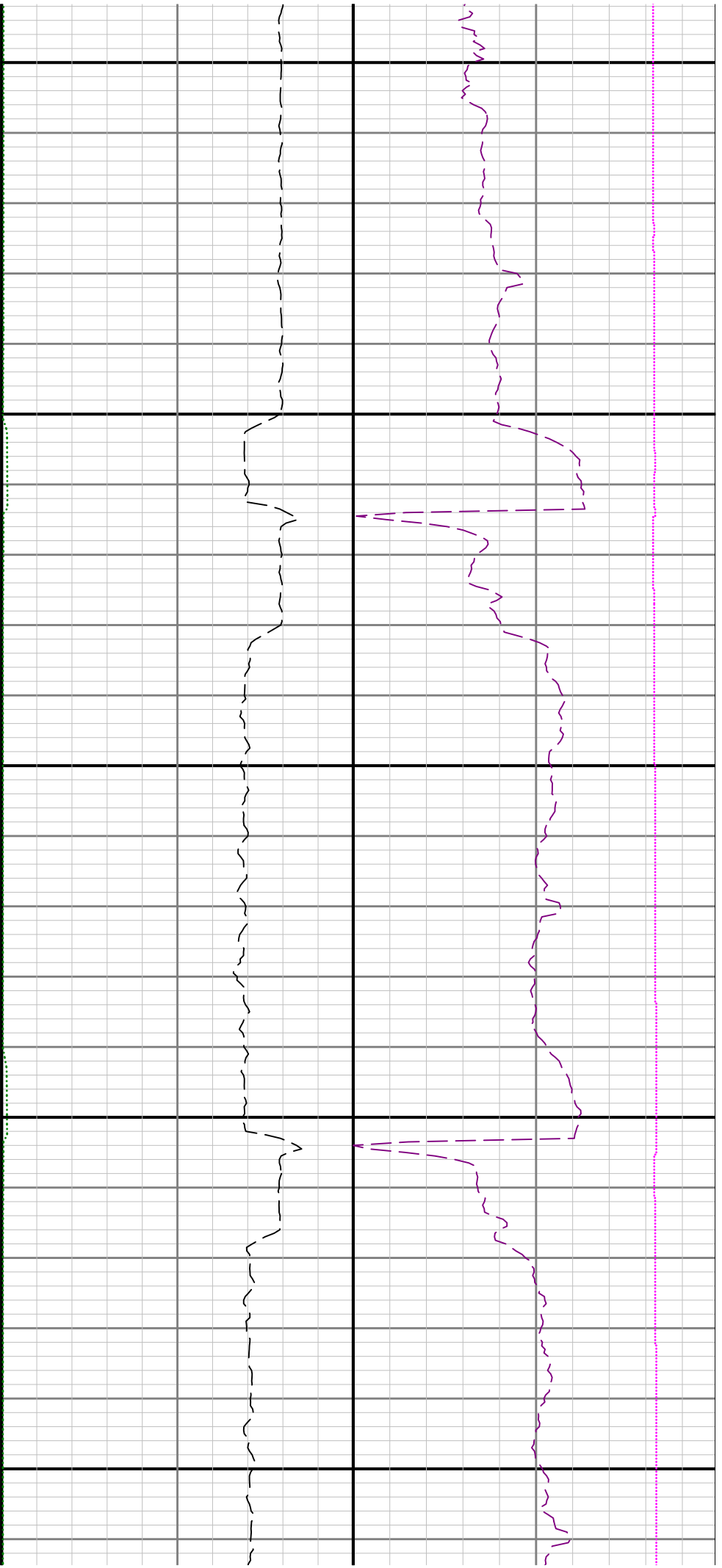


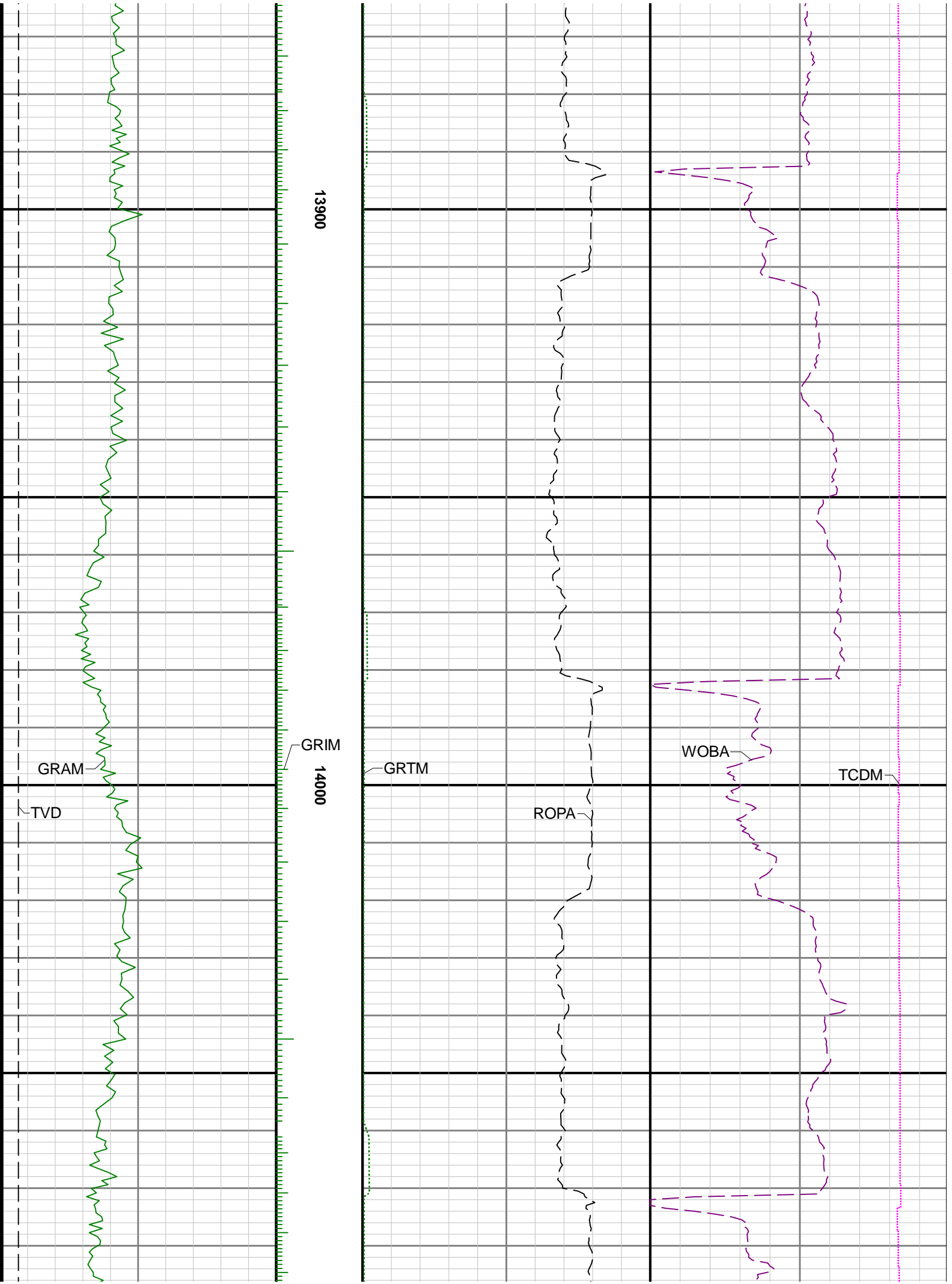
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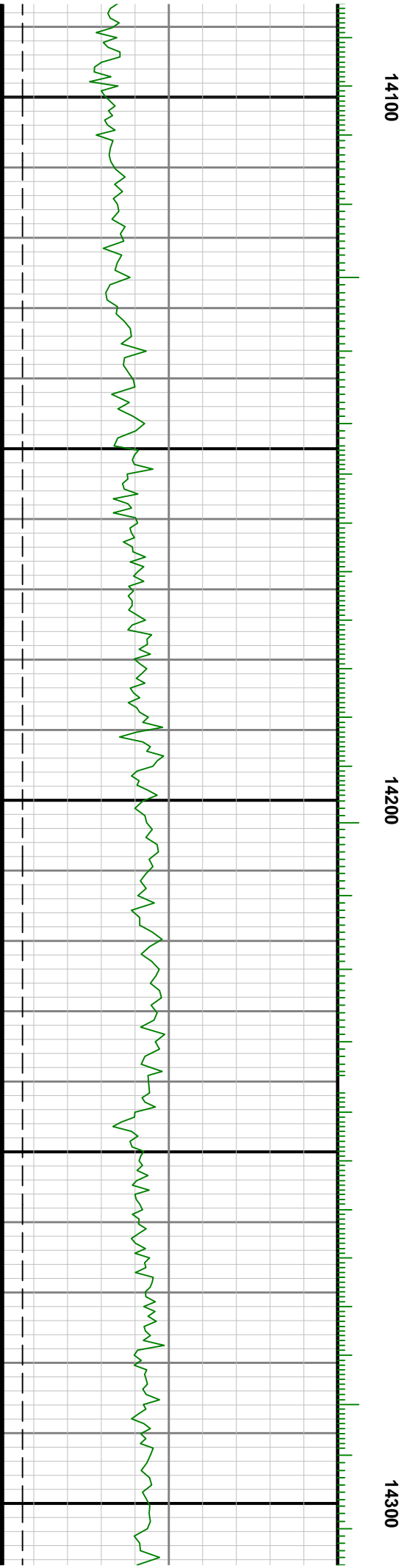
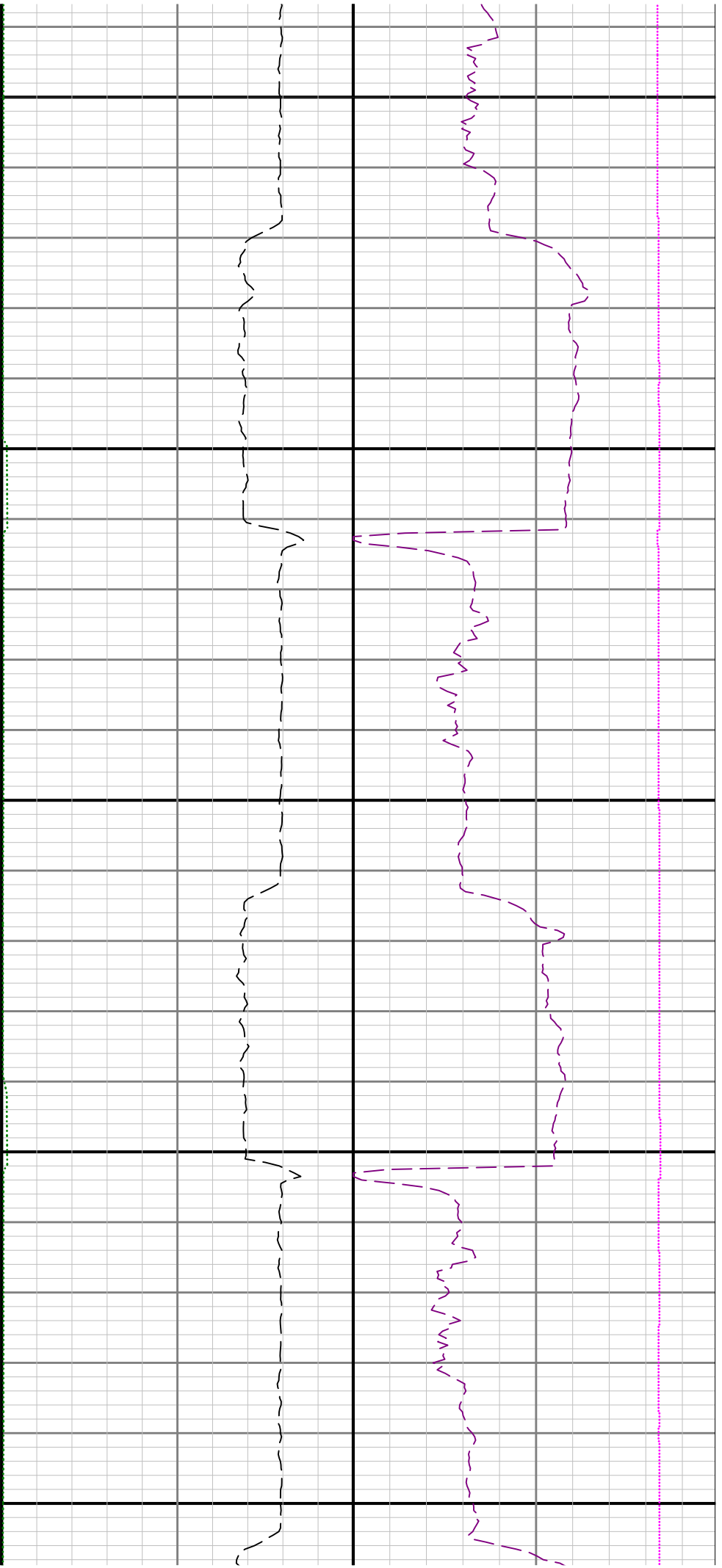
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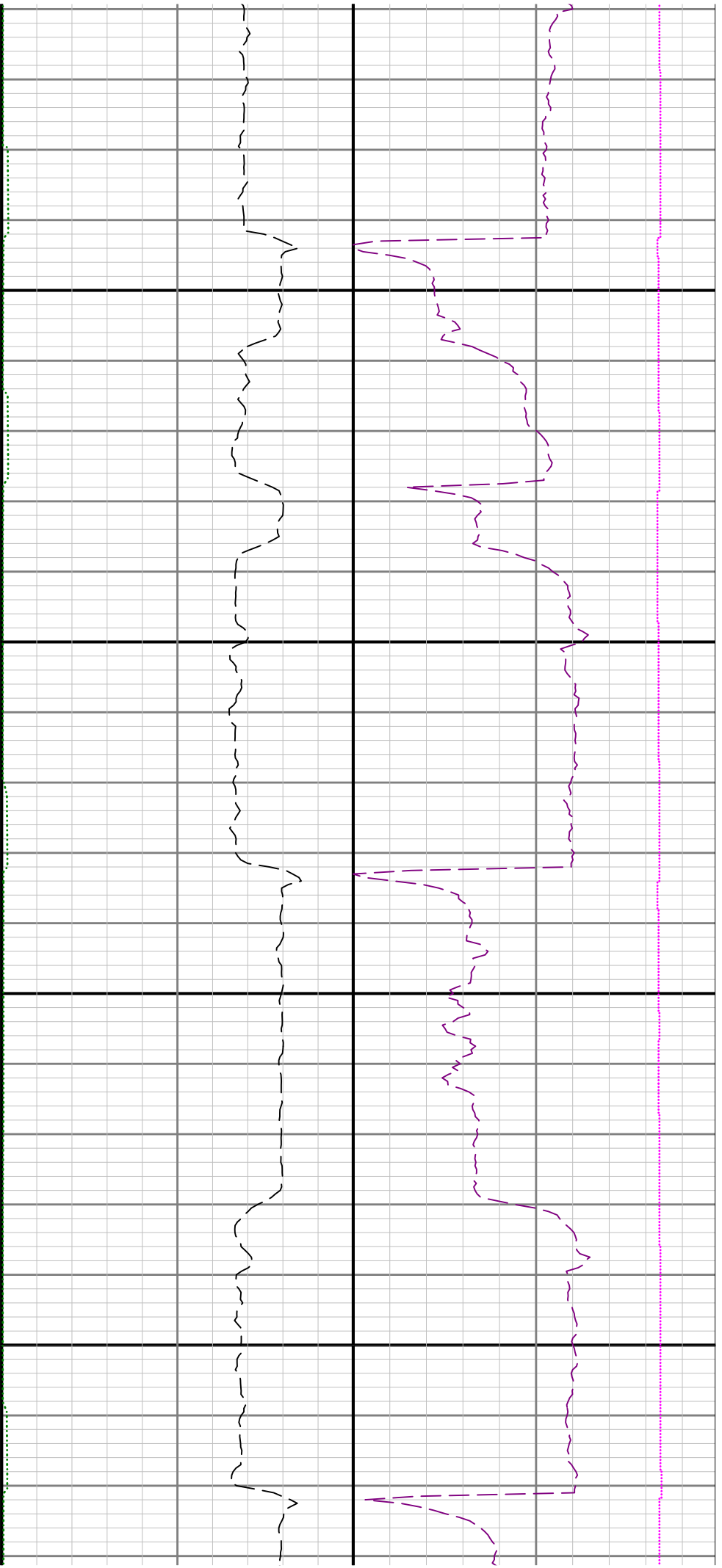






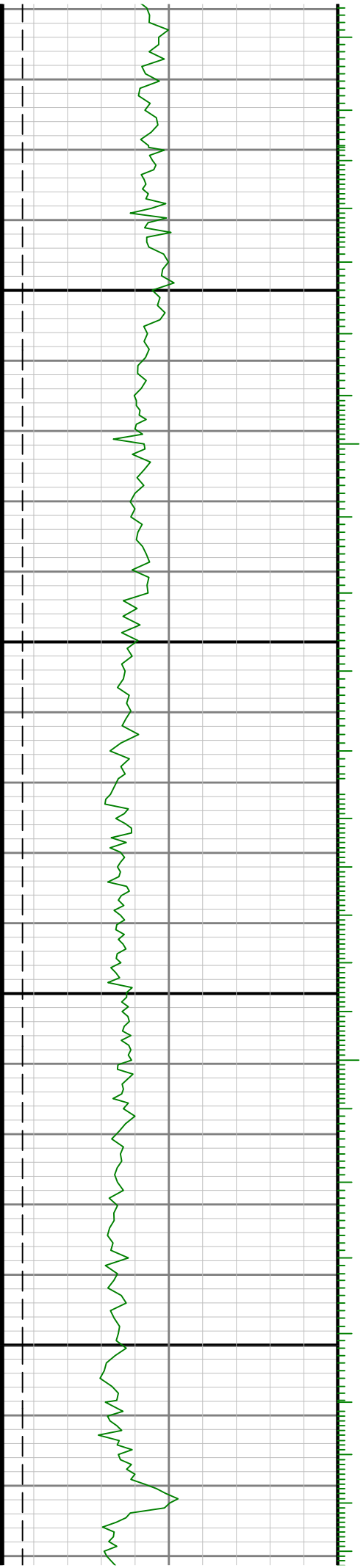


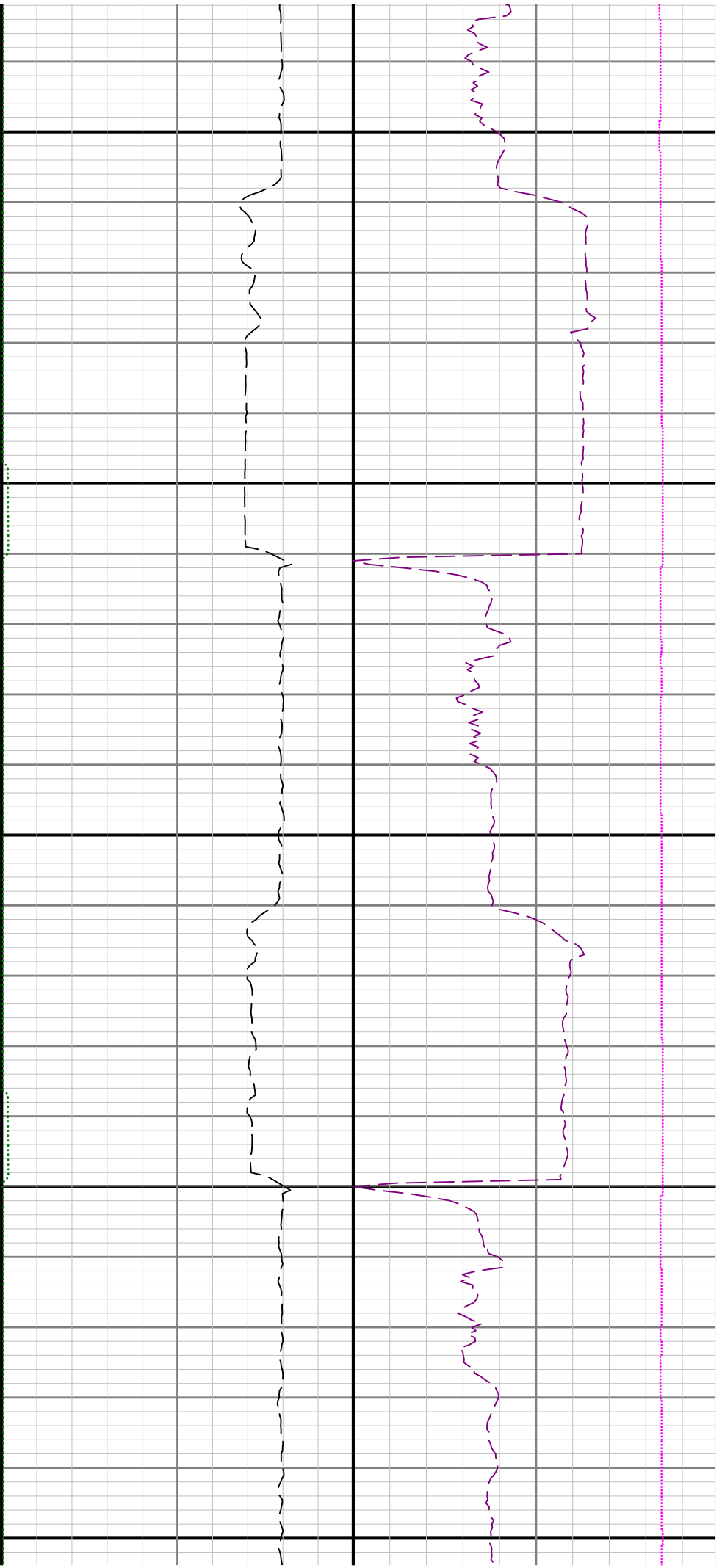




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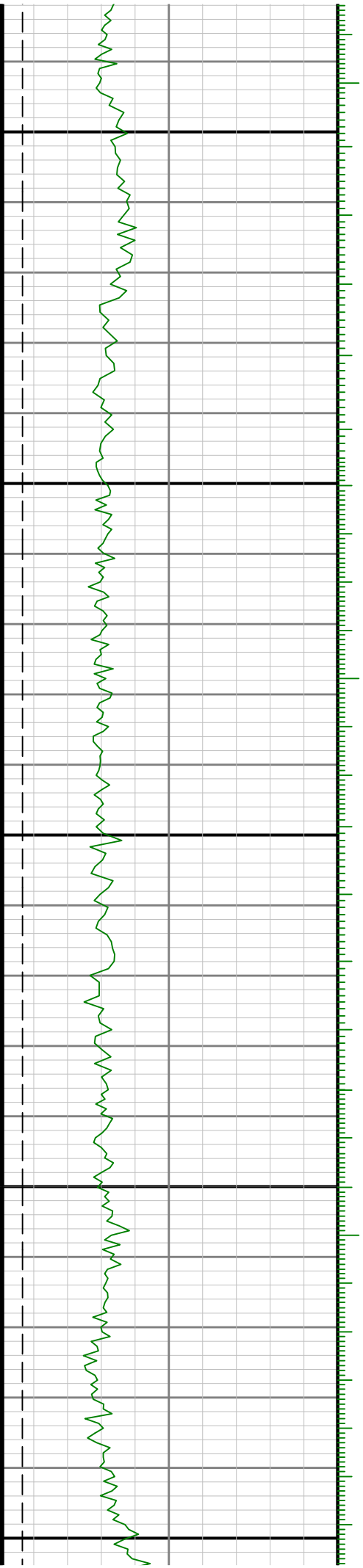
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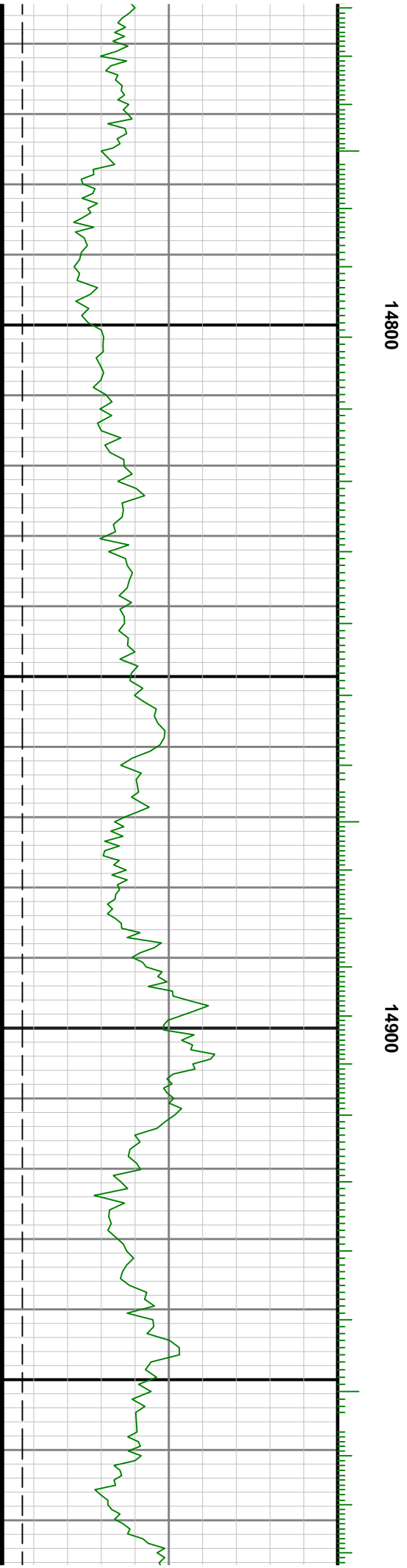
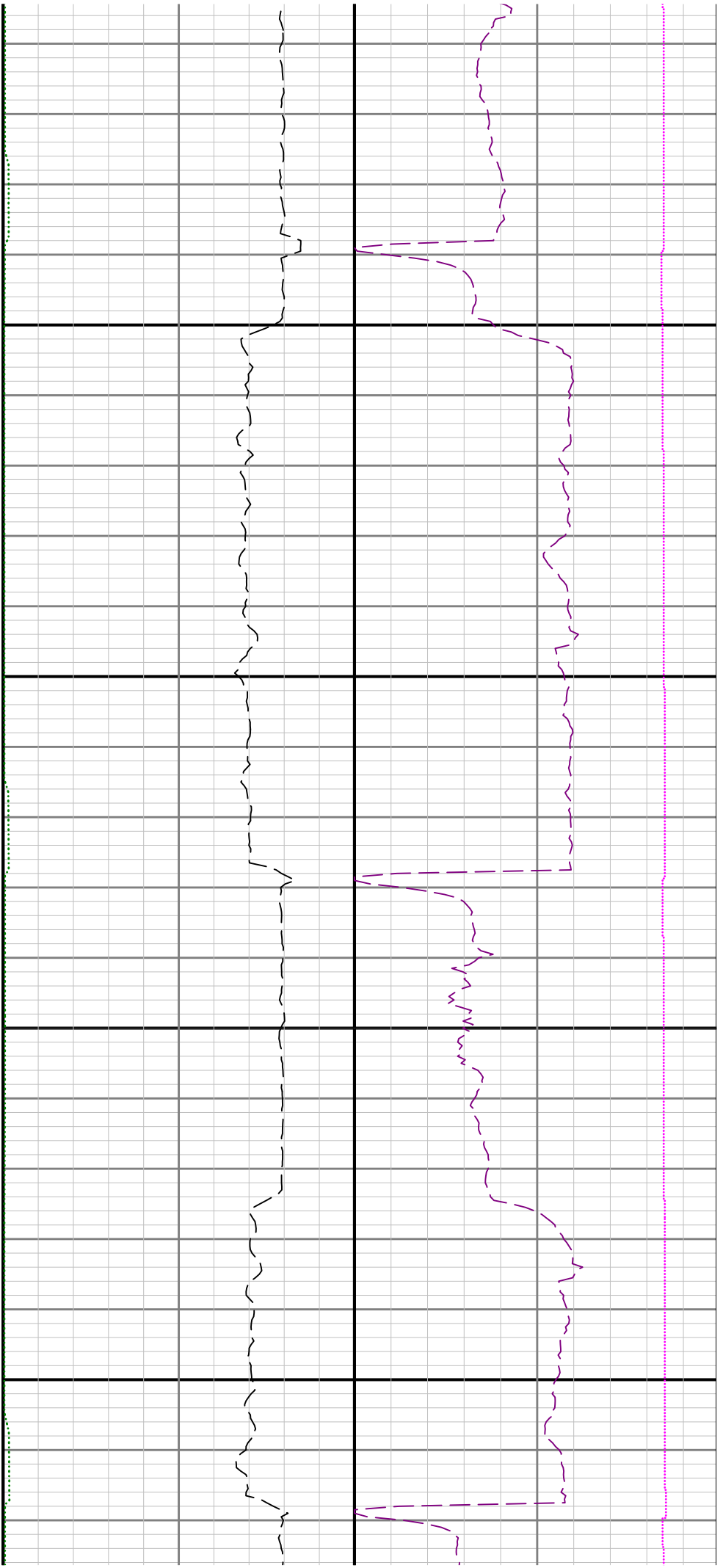


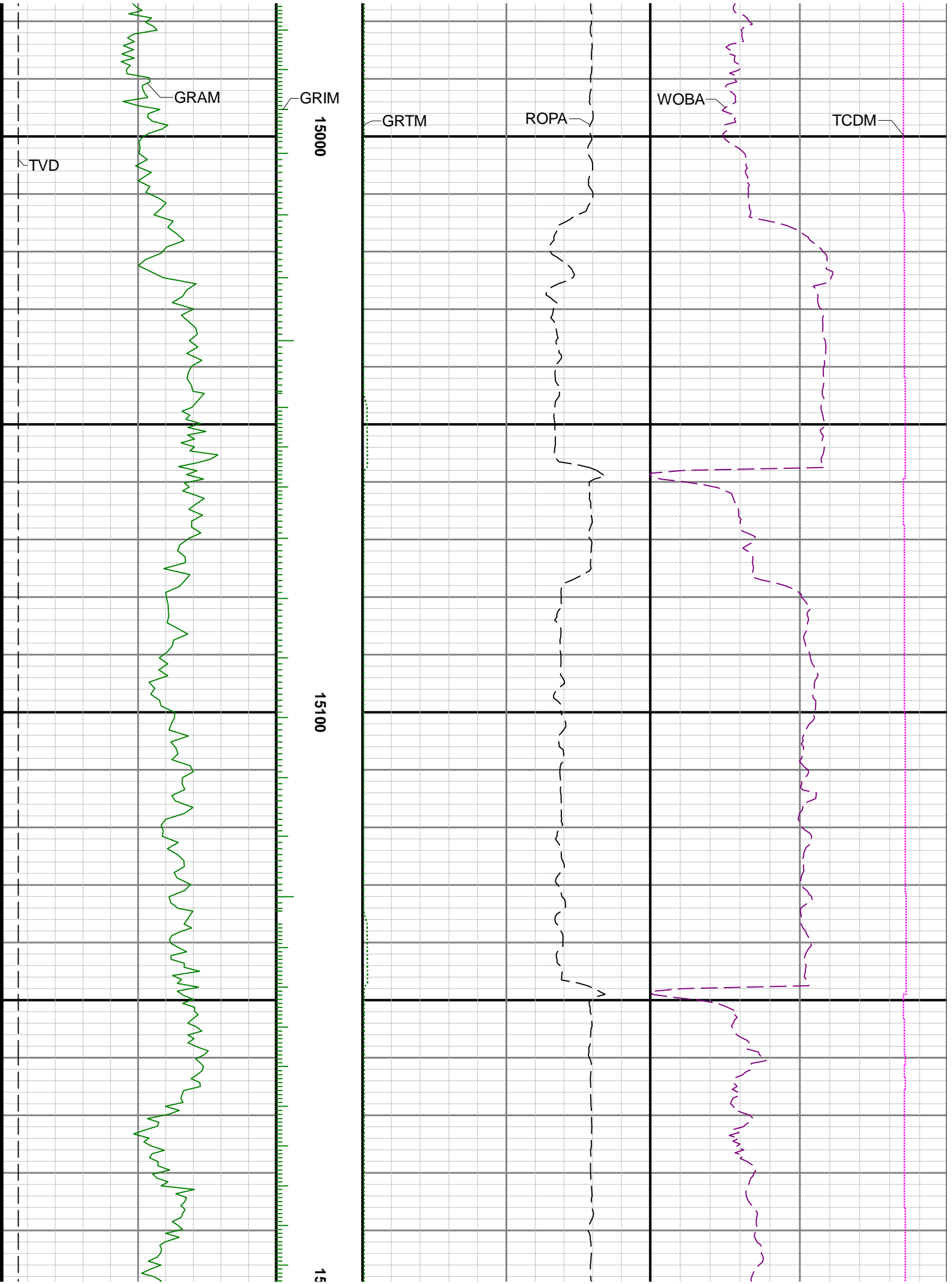


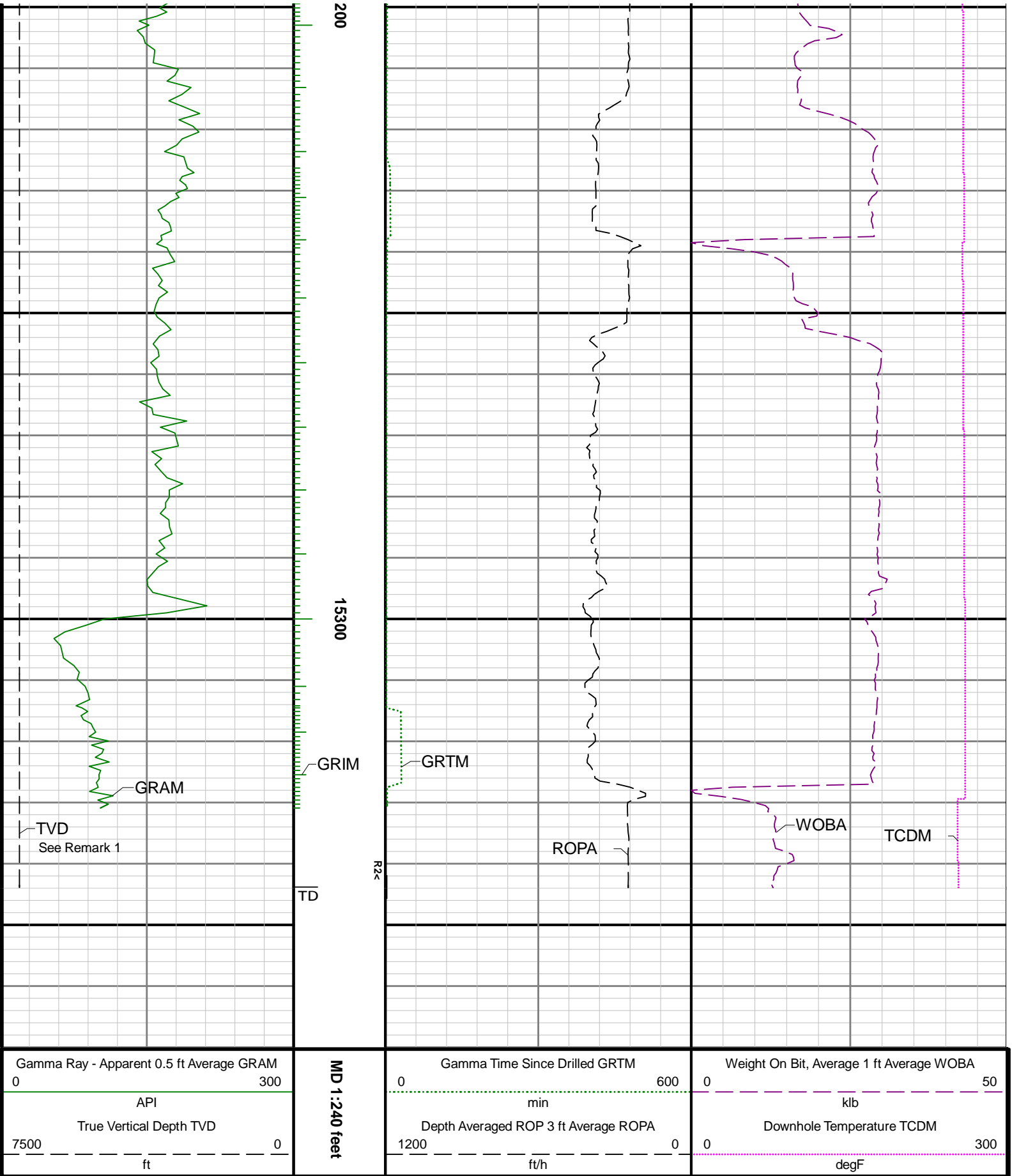
14600

14700









15300

200

MD 1:240 feet