

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+ (%)
2018-01-16 16:00	2	1816.00	Diesel-Oil Based Mud	9.8	15	N/A	34.0	81/19	Active Pit	30000	0.00
2018-01-17 04:00	2	4428.00	Diesel-Oil Based Mud	9.6	13	N/A	33.0	81/19	Active Pit	30000	0.00
2018-01-17 16:00	2	7062.00	Diesel-Oil Based Mud	9.5	14	N/A	30.0	81/19	Active Pit	30000	0.00
2018-01-18 04:00	2	9568.00	Diesel-Oil Based Mud	9.5	11	N/A	29.0	80/20	Active Pit	30000	0.00
2018-01-18 16:00	2	11134.00	Diesel-Oil Based Mud	9.5	13	N/A	30.0	80/20	Active Pit	35000	0.00
2018-01-19 02:00	2	13076.00	Diesel-Oil Based Mud	9.6	15	N/A	28.0	79/21	Active Pit	33000	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	12406997	Near Bit Inclination	5.93	6.73	7.000	4.330
2	ATC_SU	12406997	Near Bit VSS	5.93	6.73	7.000	4.330
2	ATC_MWD	12965732	Gamma (single)	2.75	12.90	7.000	3.250
2	ATC_MWD	12965732	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	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 NaviTrak service (Directional only) behind a 13 1/2 inch bit and steerable assembly from surface to 1816 feet MD (surface to 1804 feet TVD). No logging data was acquired during this run.
3	Observed tool joint (TJ) at 1804 feet MD (1804 to 6912 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	3583.00	8.500	2	The interval from 3578 to 3693 feet MD (3549 to 3662 feet TVD) was not logged due to an issue with surface software depth tracking.
2	15543.00	8.500	2	The interval from 15540 to 15553 feet MD (6912 feet TVD) was not logged due to sensor to bit offset at well TD.

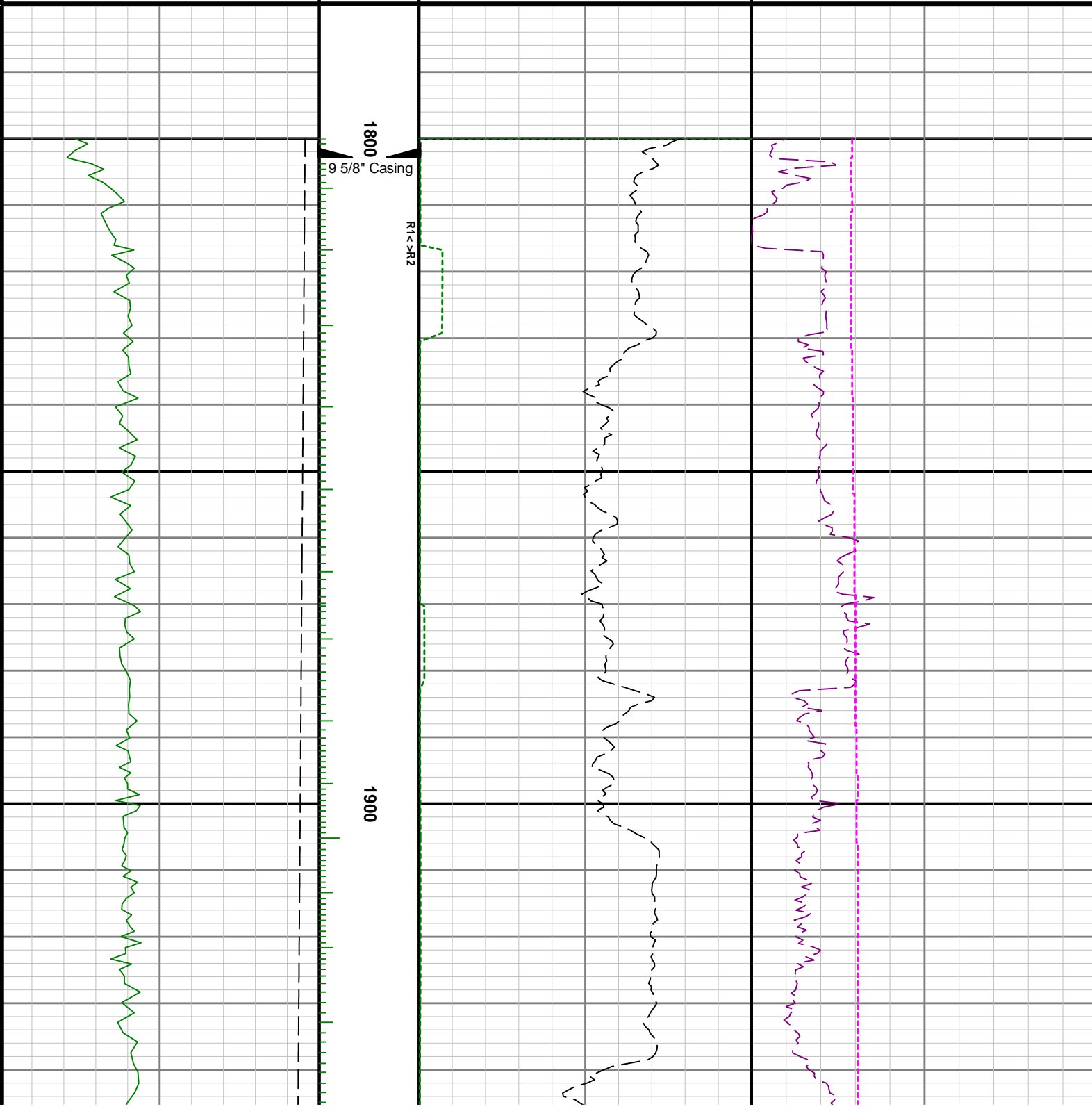
Curve Mnemonics

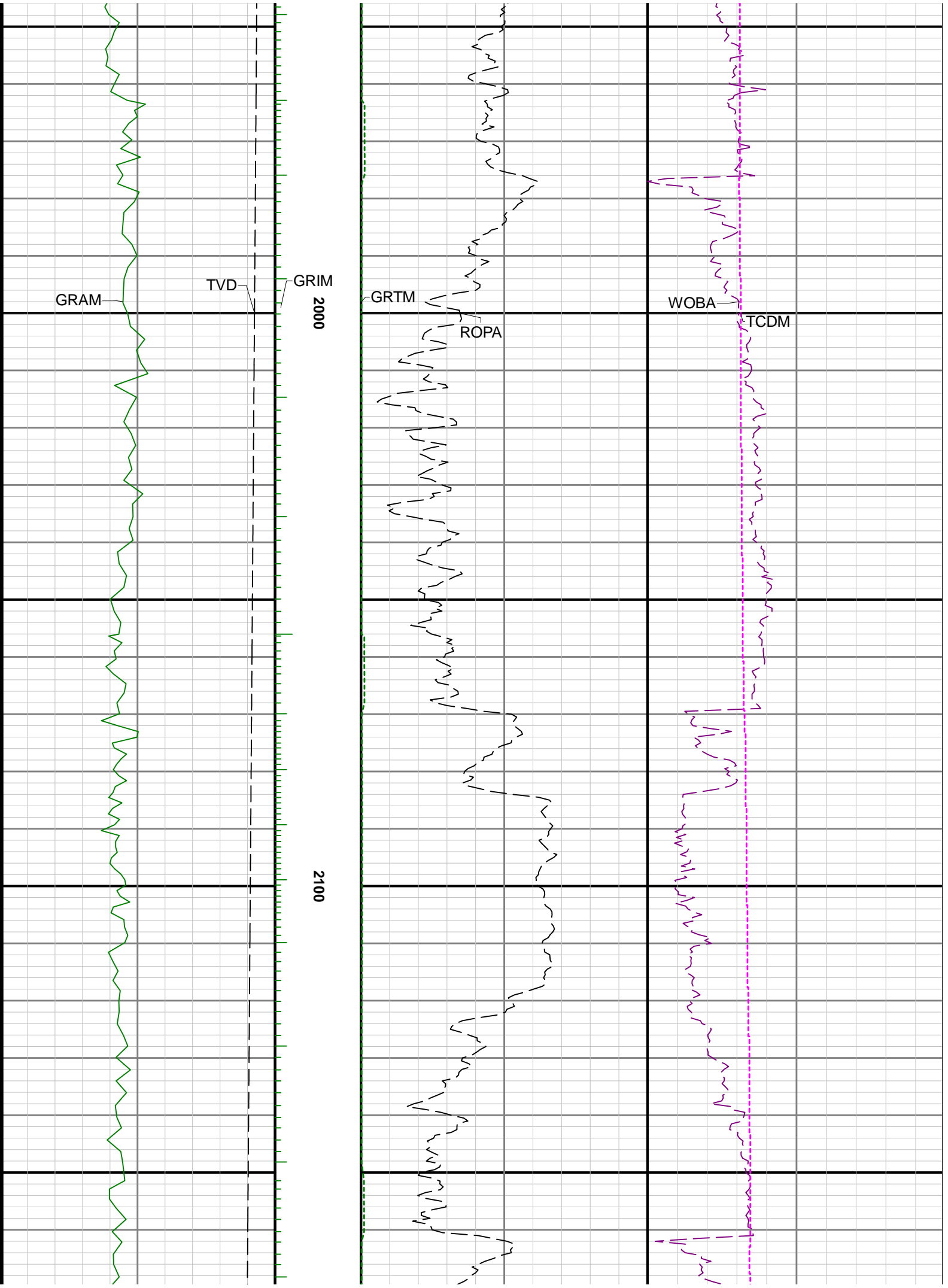
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API

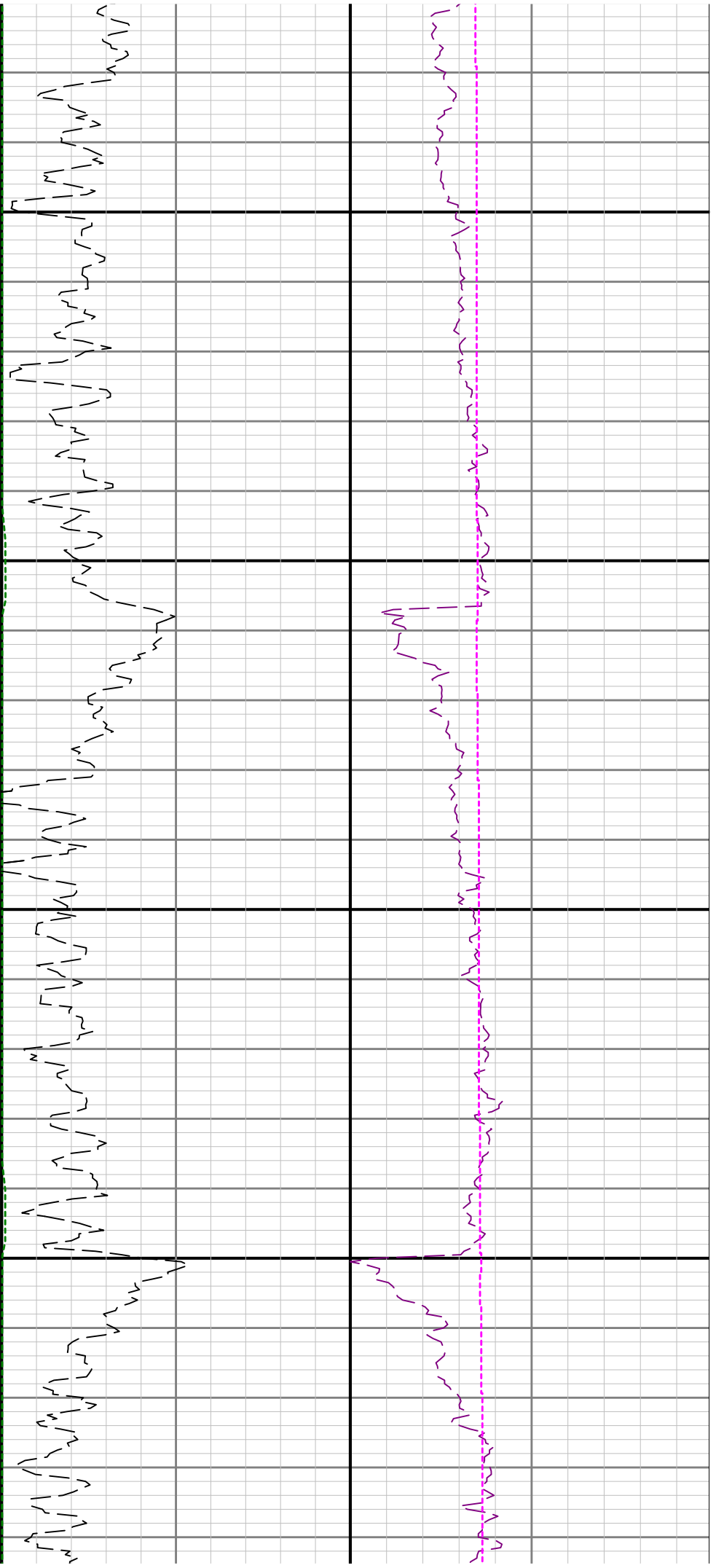
GRIM	Gamma Ray - Data Point Indicator - Memory	unitless
GRTM	Gamma Ray - Time Since Drilled - Memory	min
TCDM	Downhole Temperature	degF

<div> <div>  </div> <div> <div>Company</div> <div>Well</div> <div>Interval</div> <div>Created</div> </div> </div>	SRC Energy			
	Boomerang 13N-6B-M			
	Date From:	2017-12-20 08:42:01	Top:	1816.00
	Date To:	2018-01-19 06:17:58	Bottom:	15553.00
		2018-01-20 22:43:12		

Gamma Ray - Apparent 0.5 ft Average GRAM	<div> <div>MD 1:240 feet</div> </div>	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
8000 1500		1000 0	0 275
ft		ft/h	degF

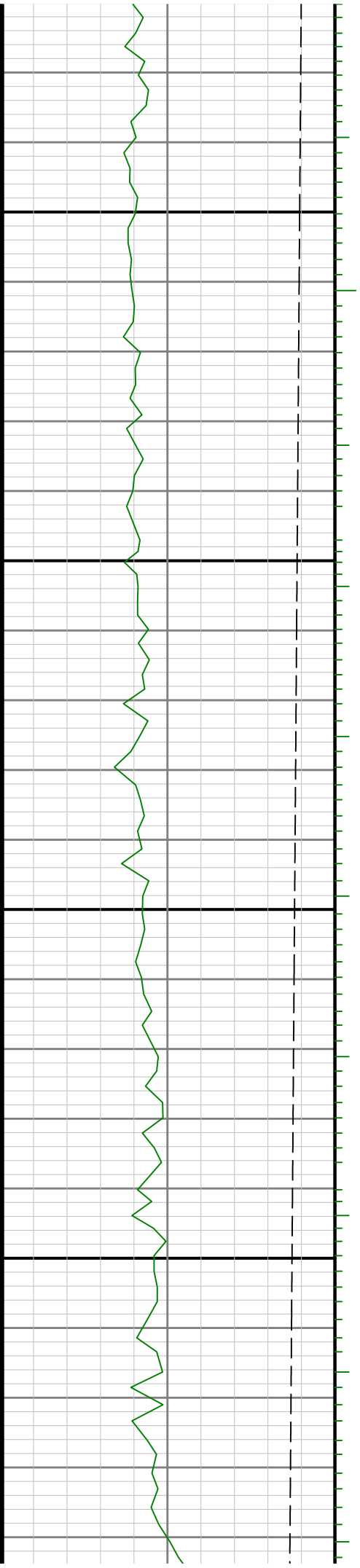


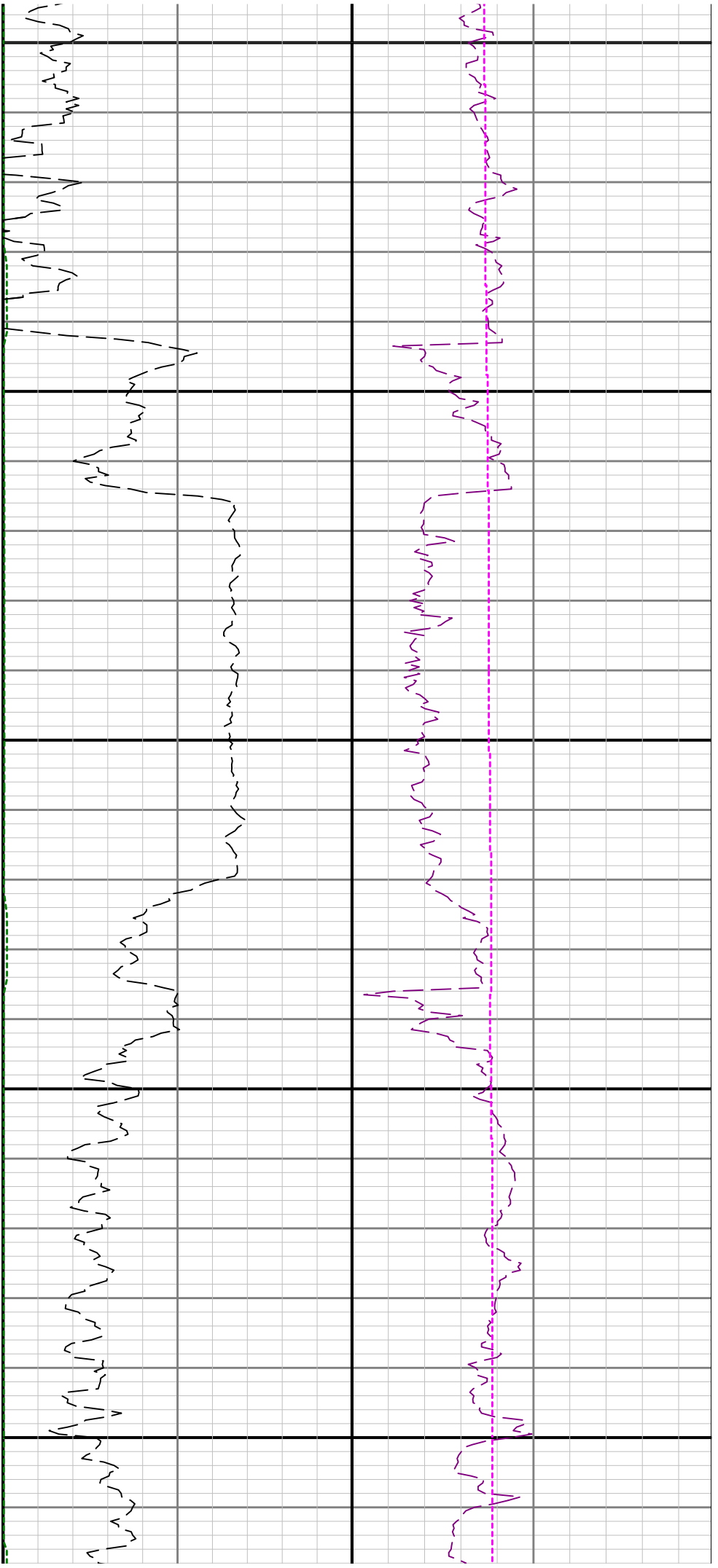




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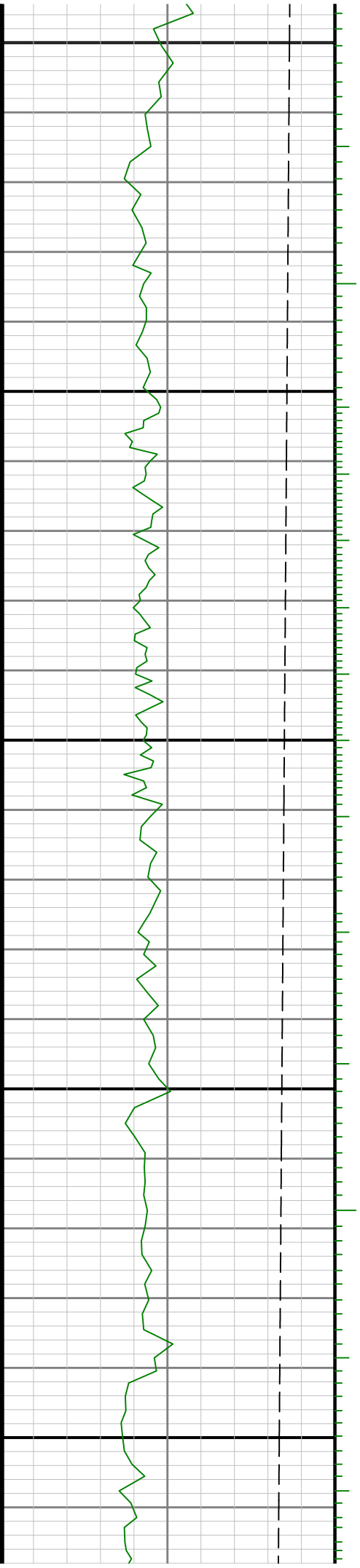


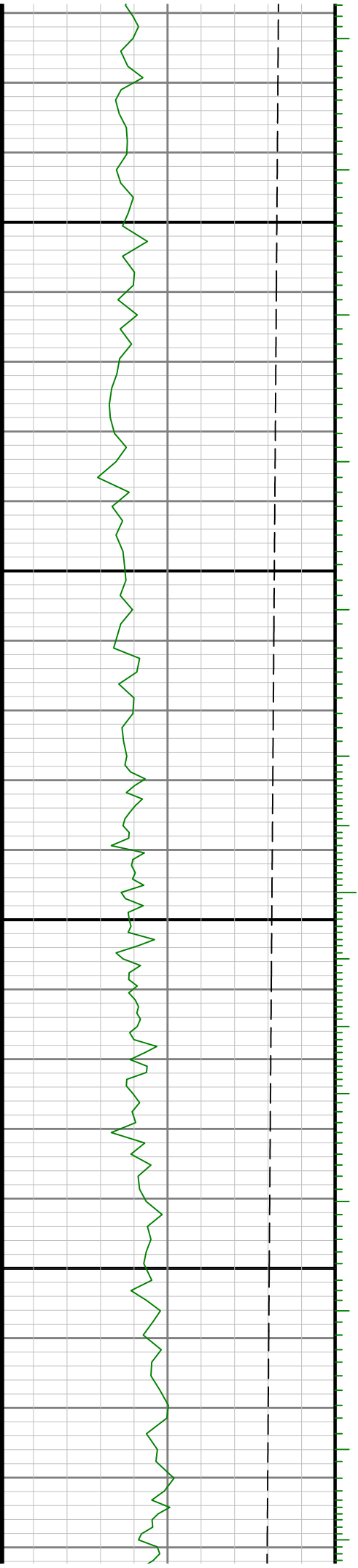
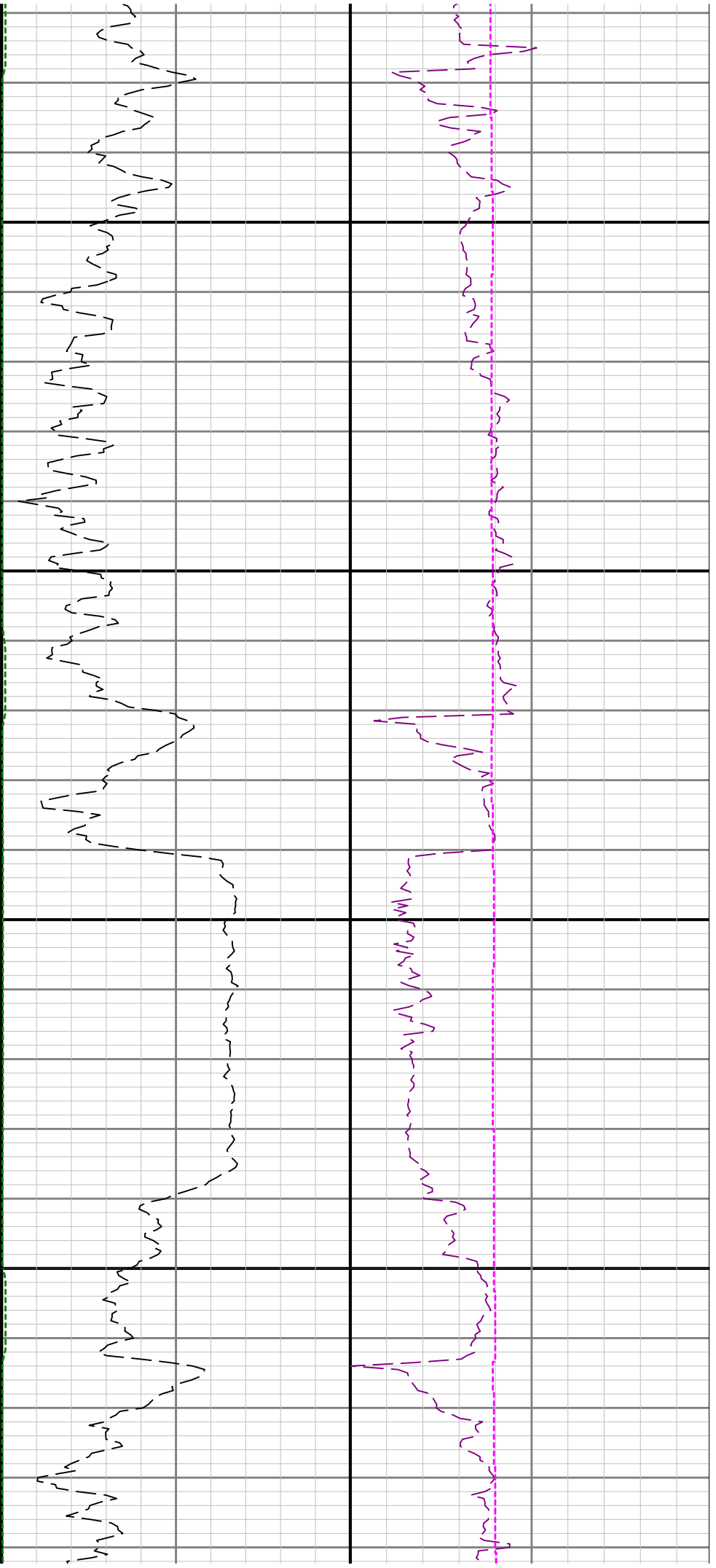


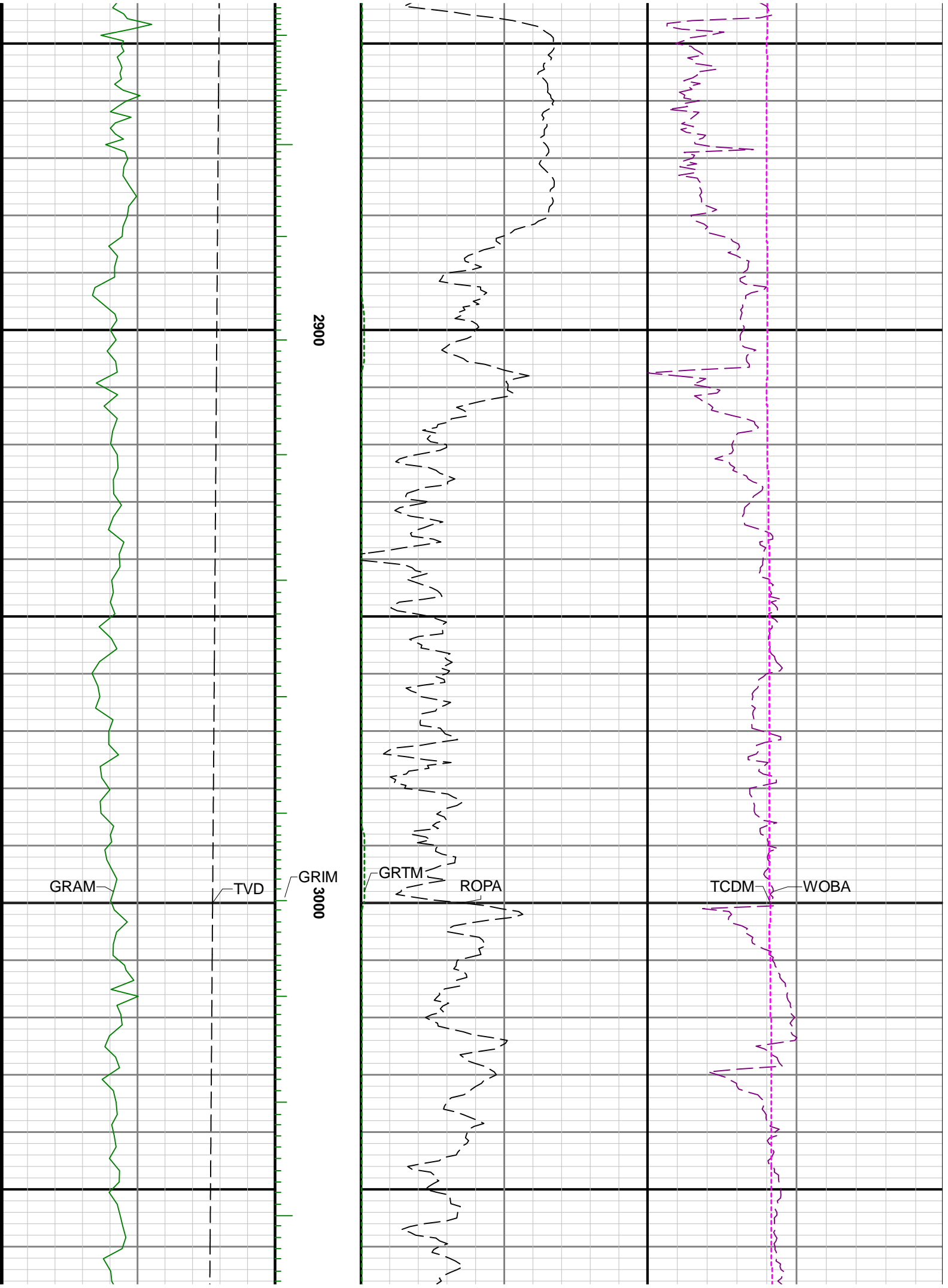
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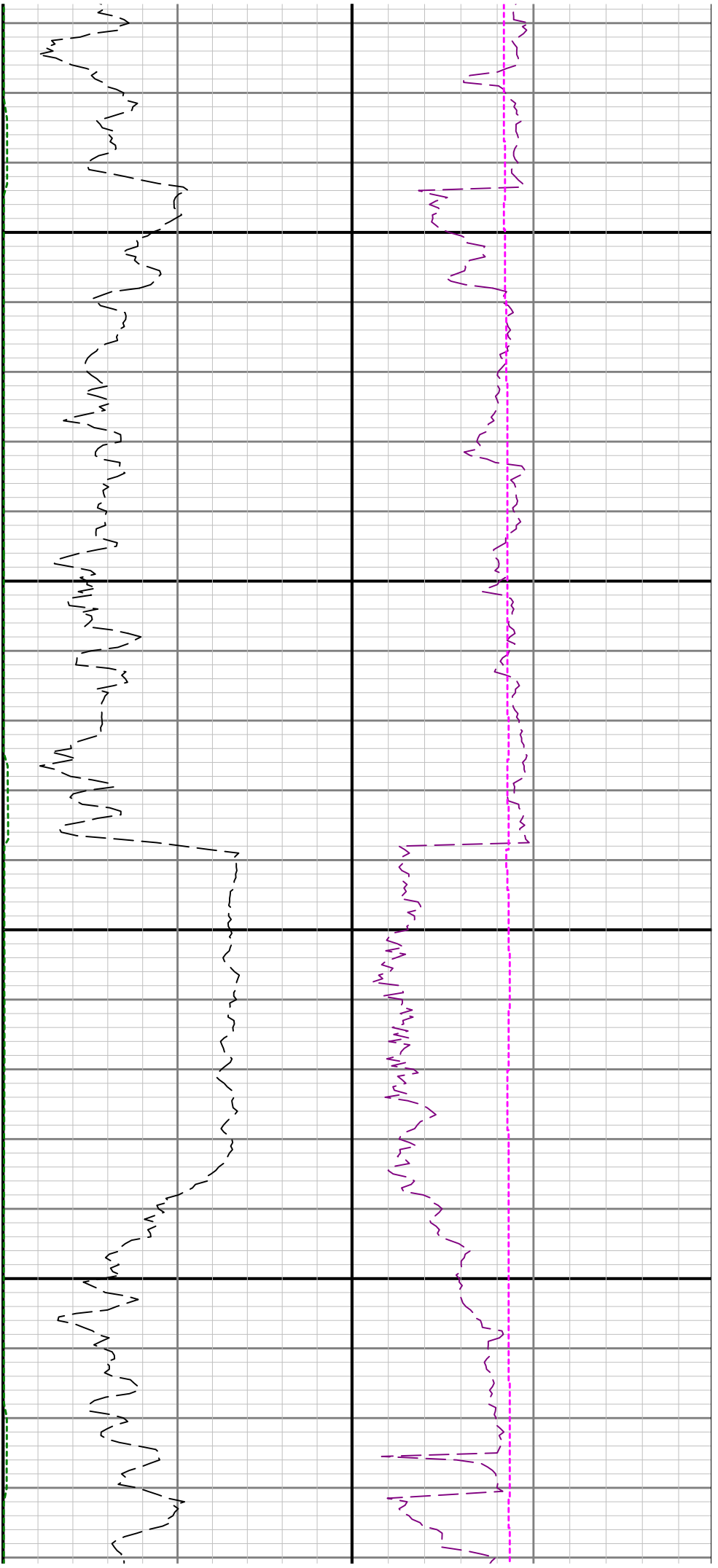
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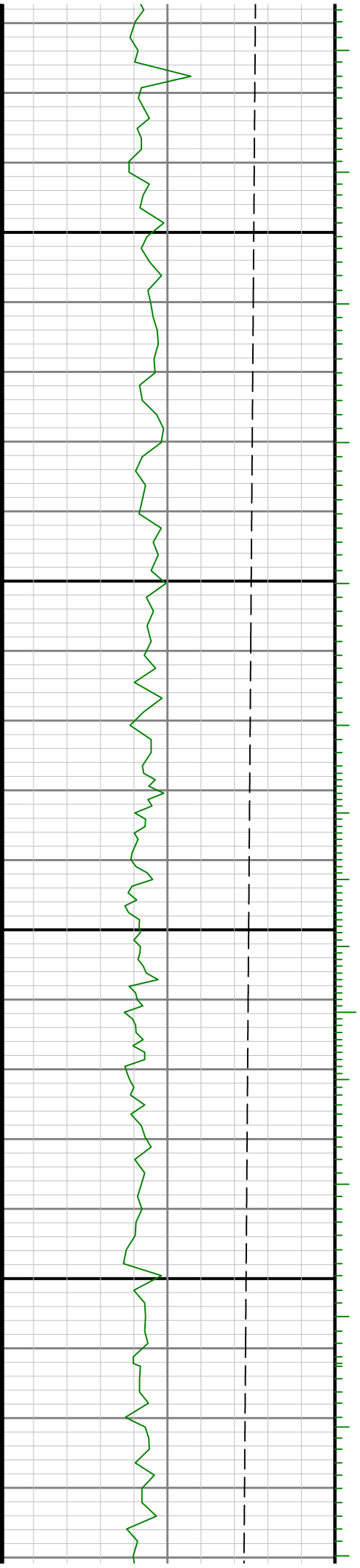


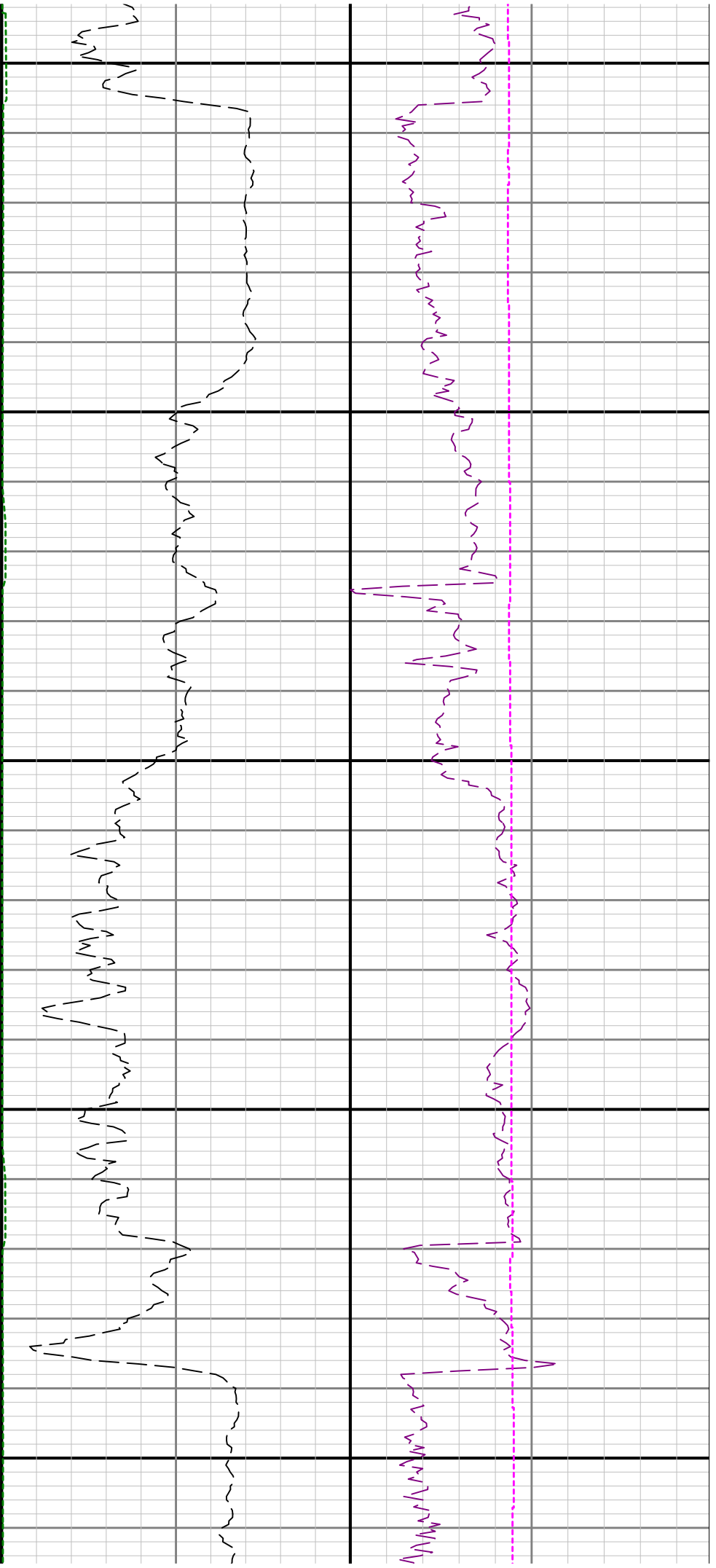




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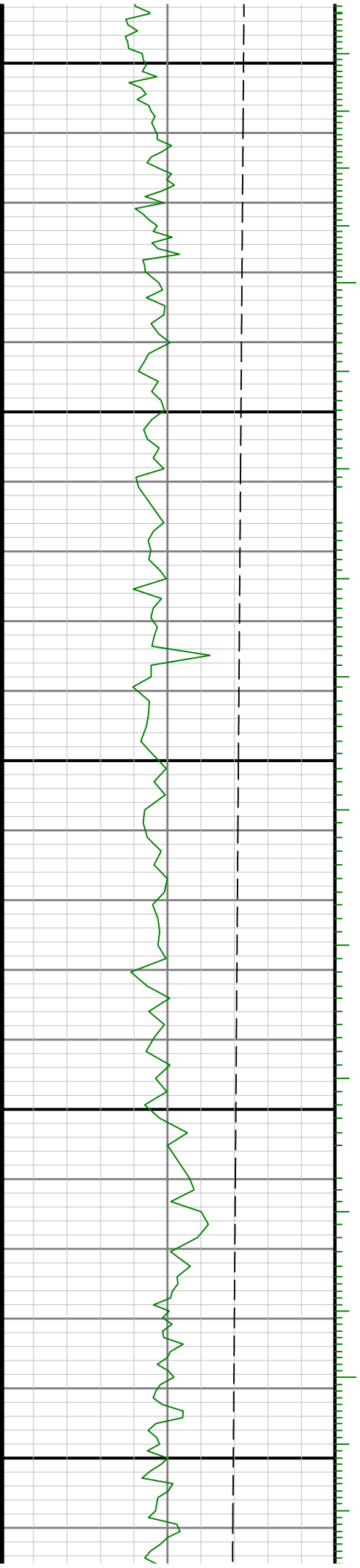


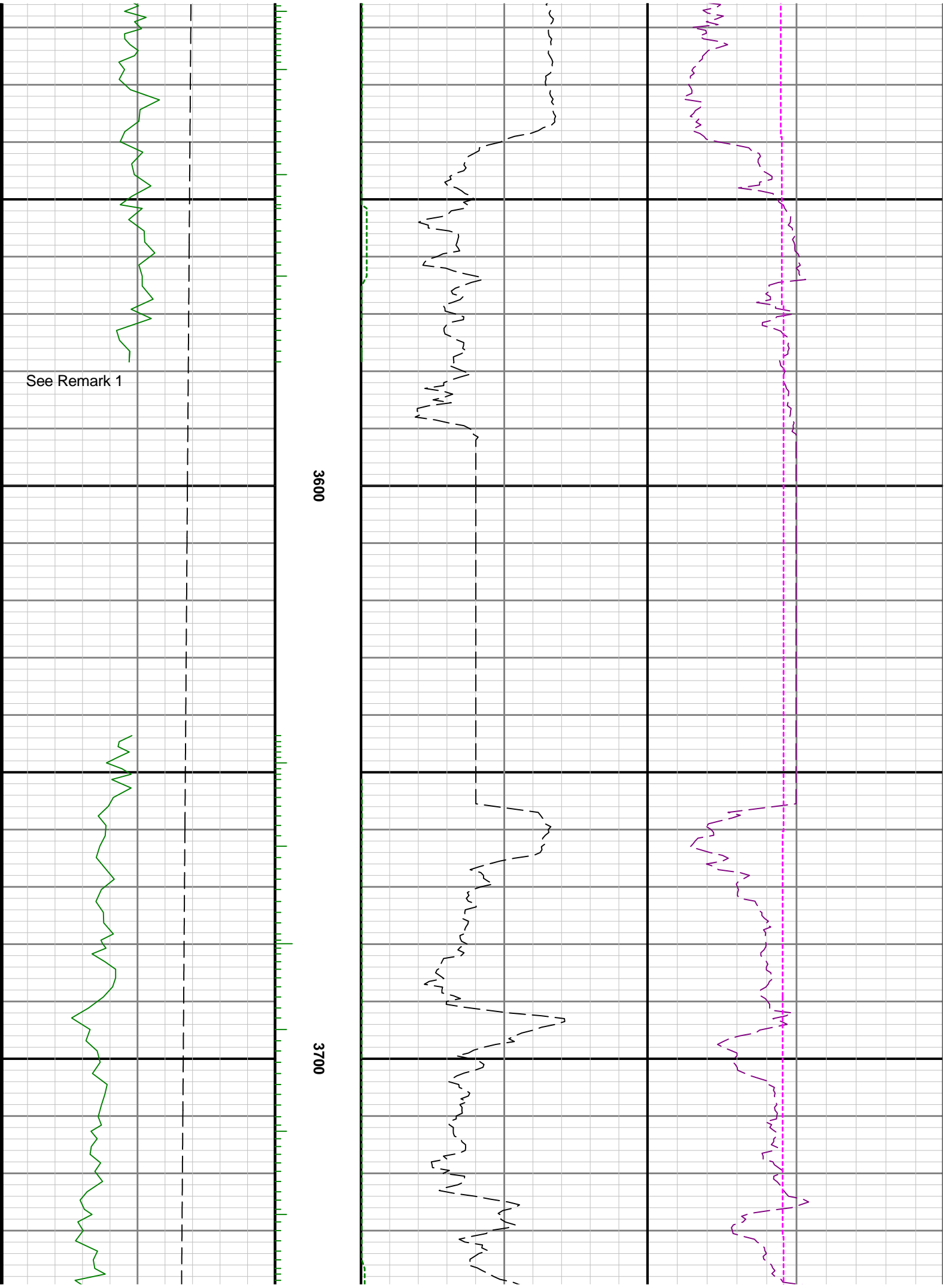


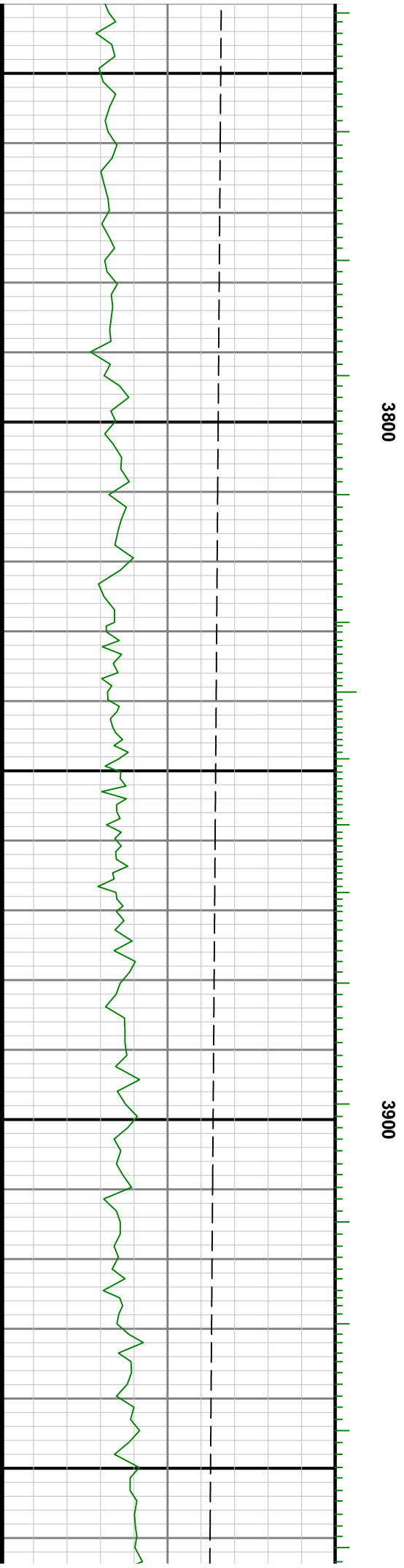
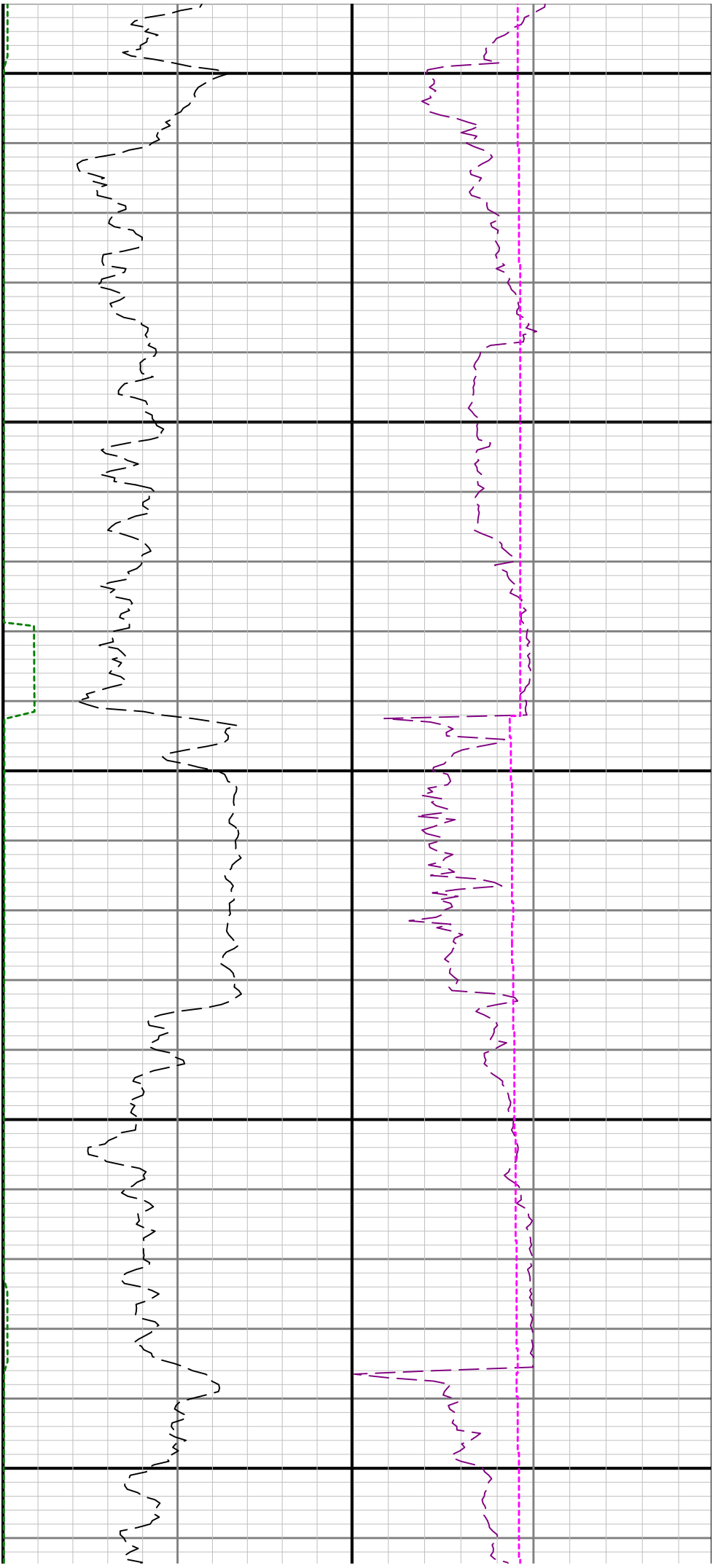
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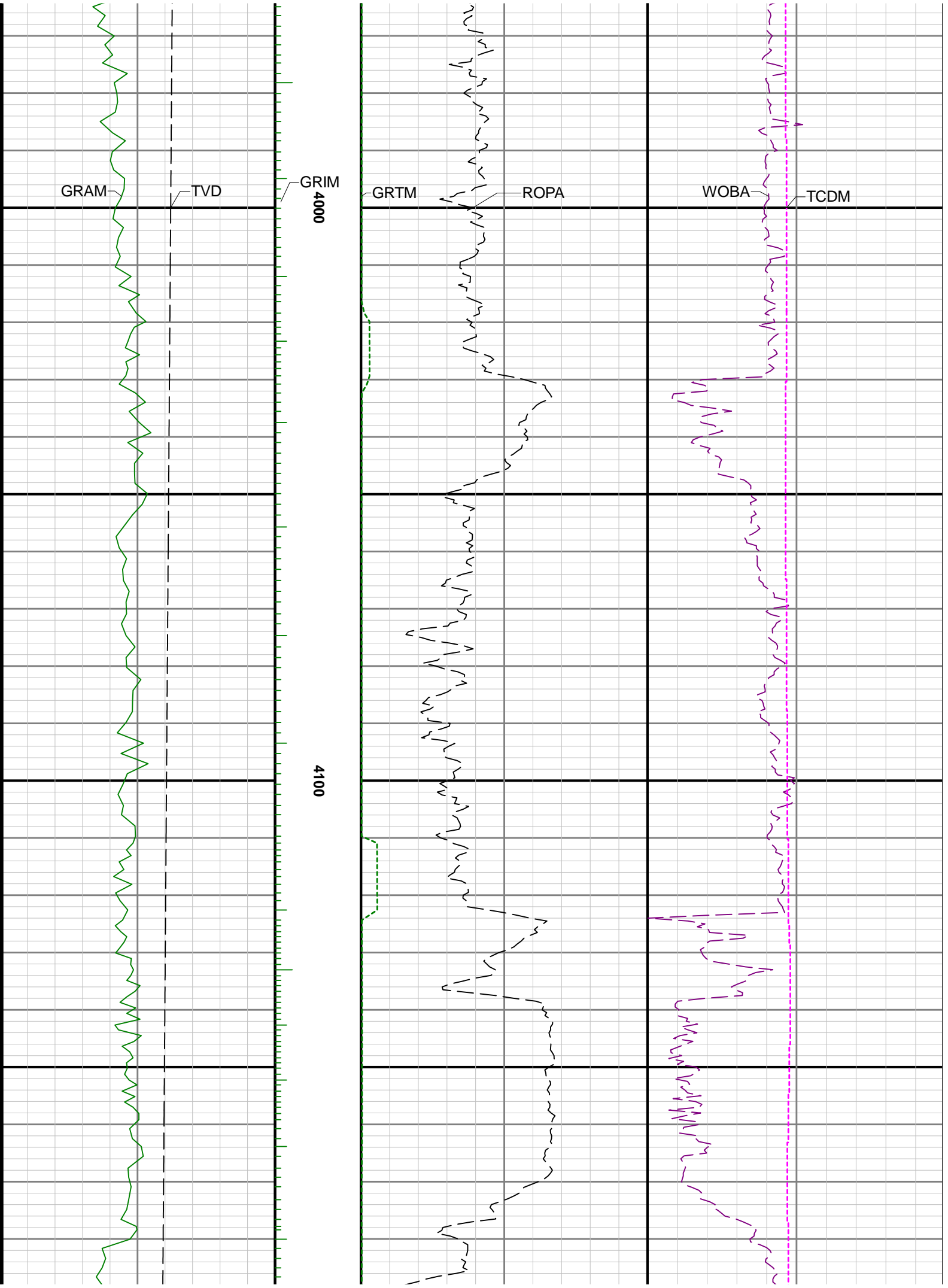
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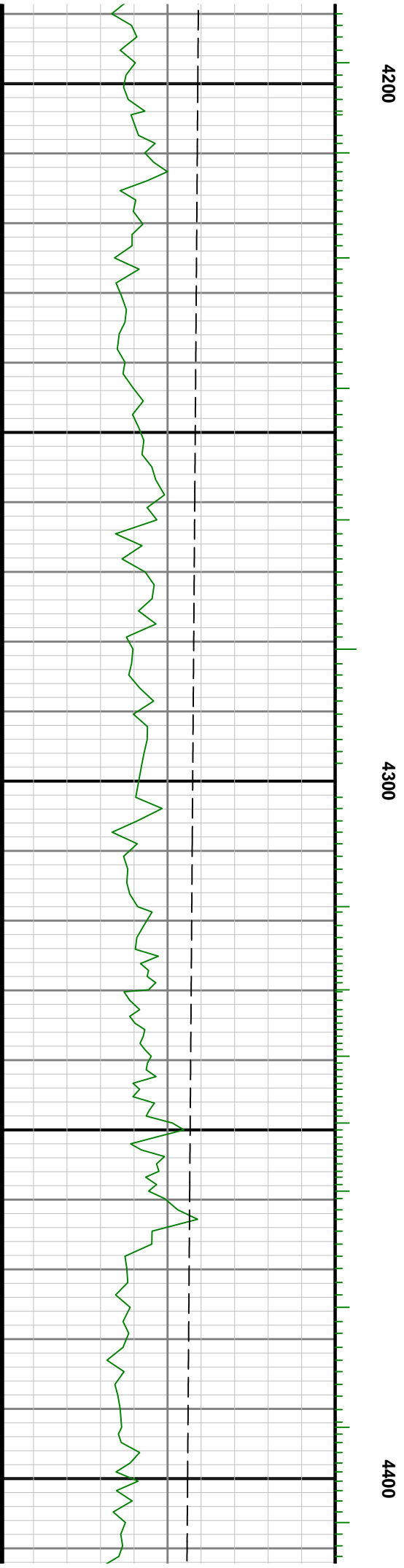
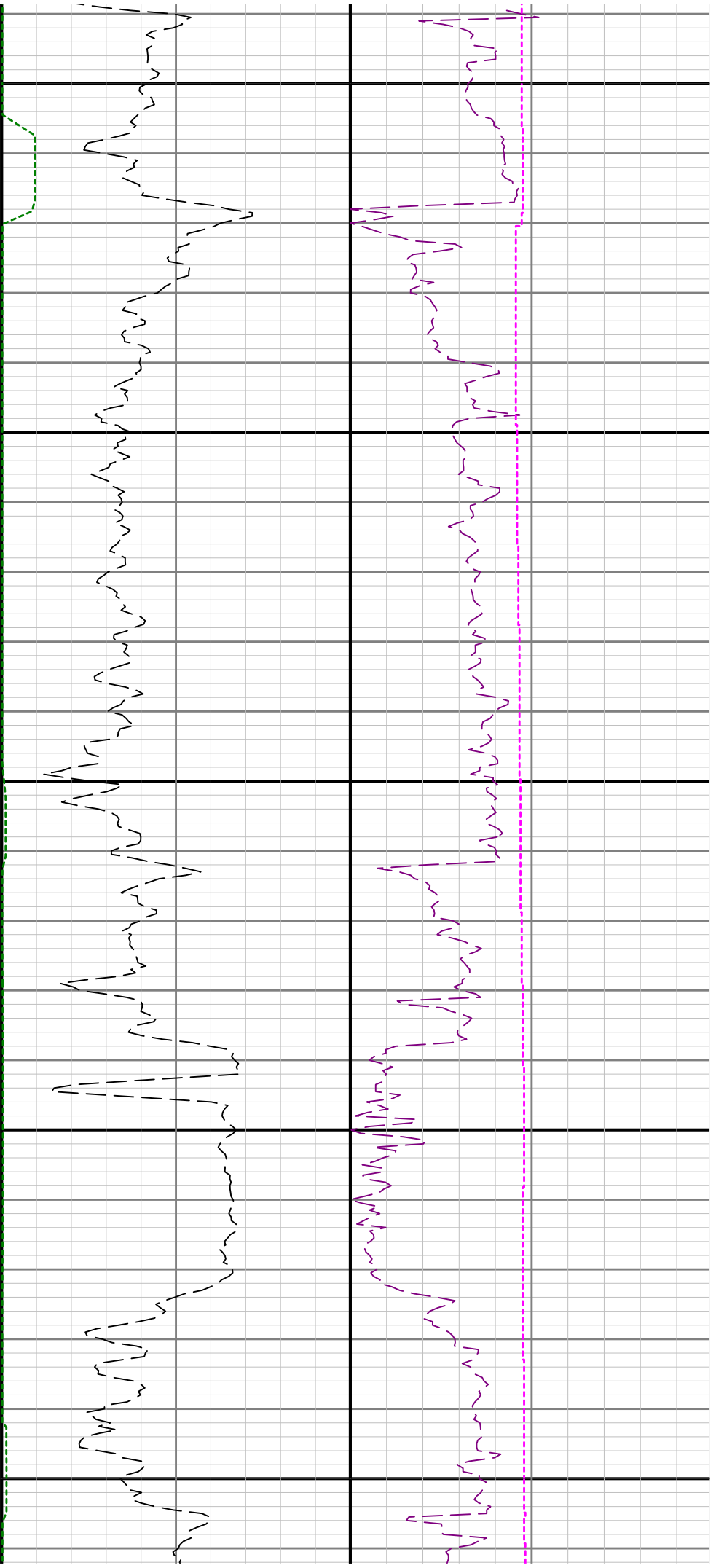
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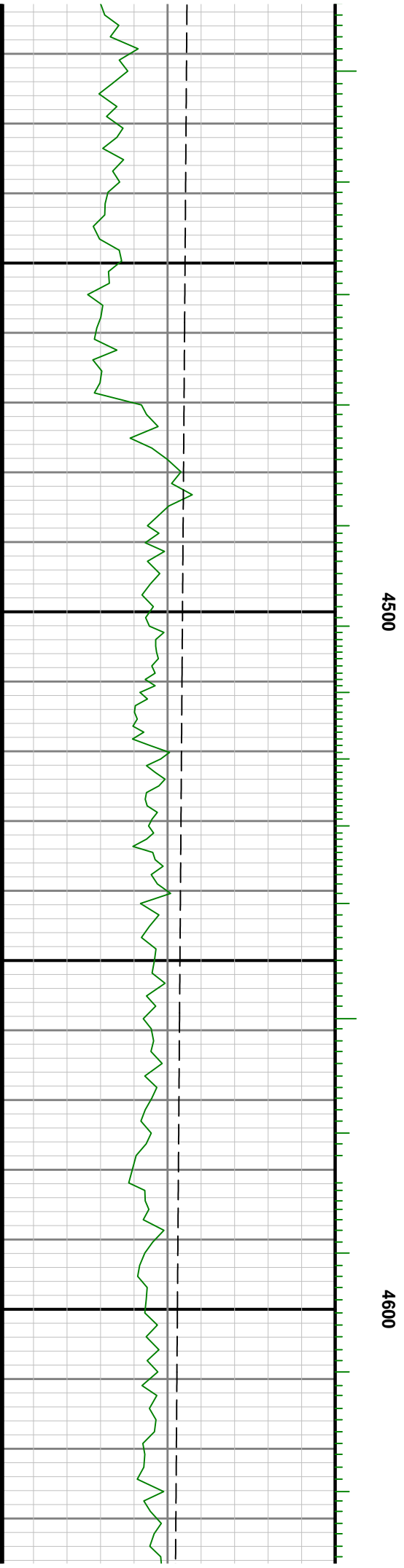
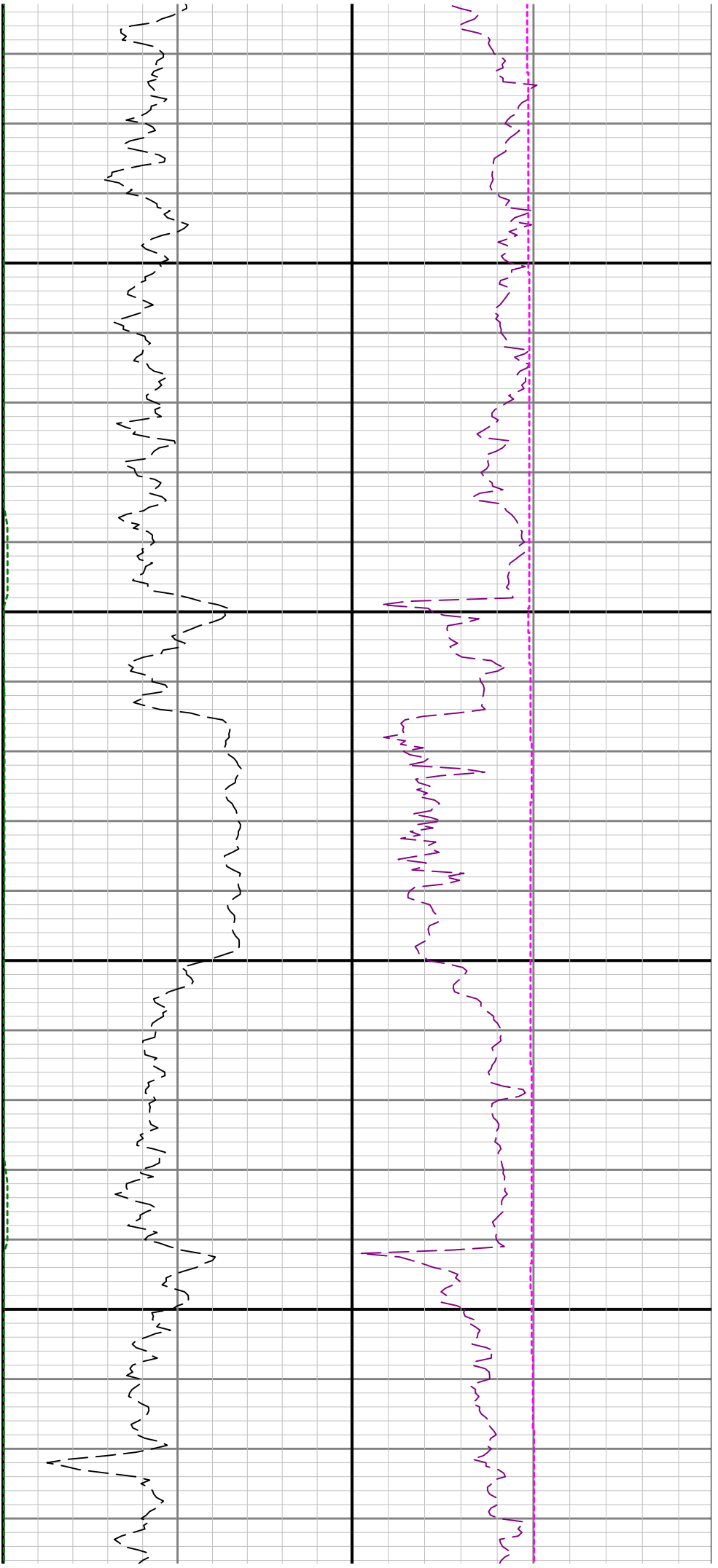


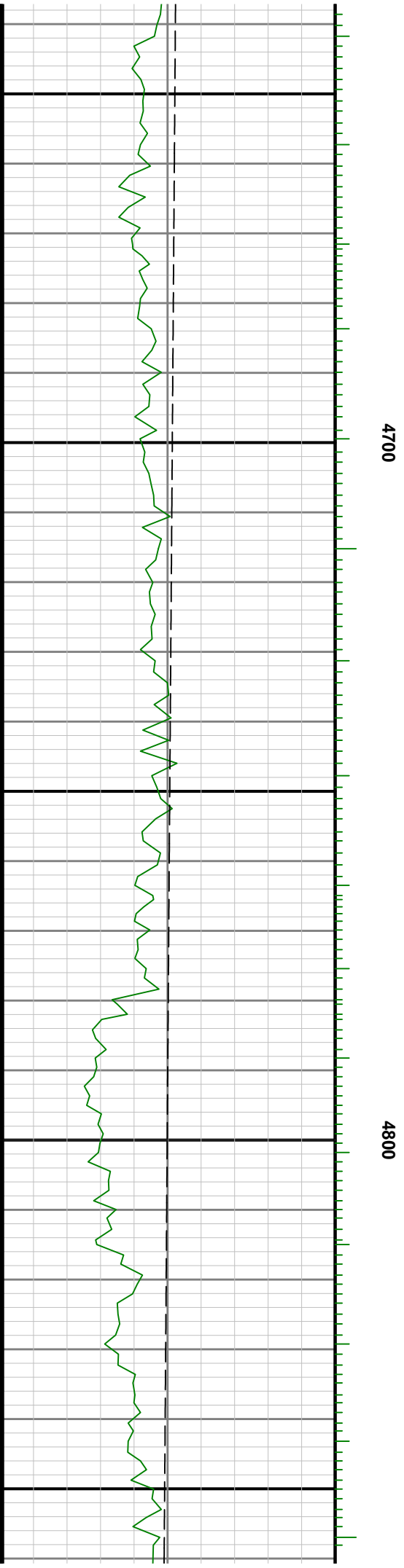
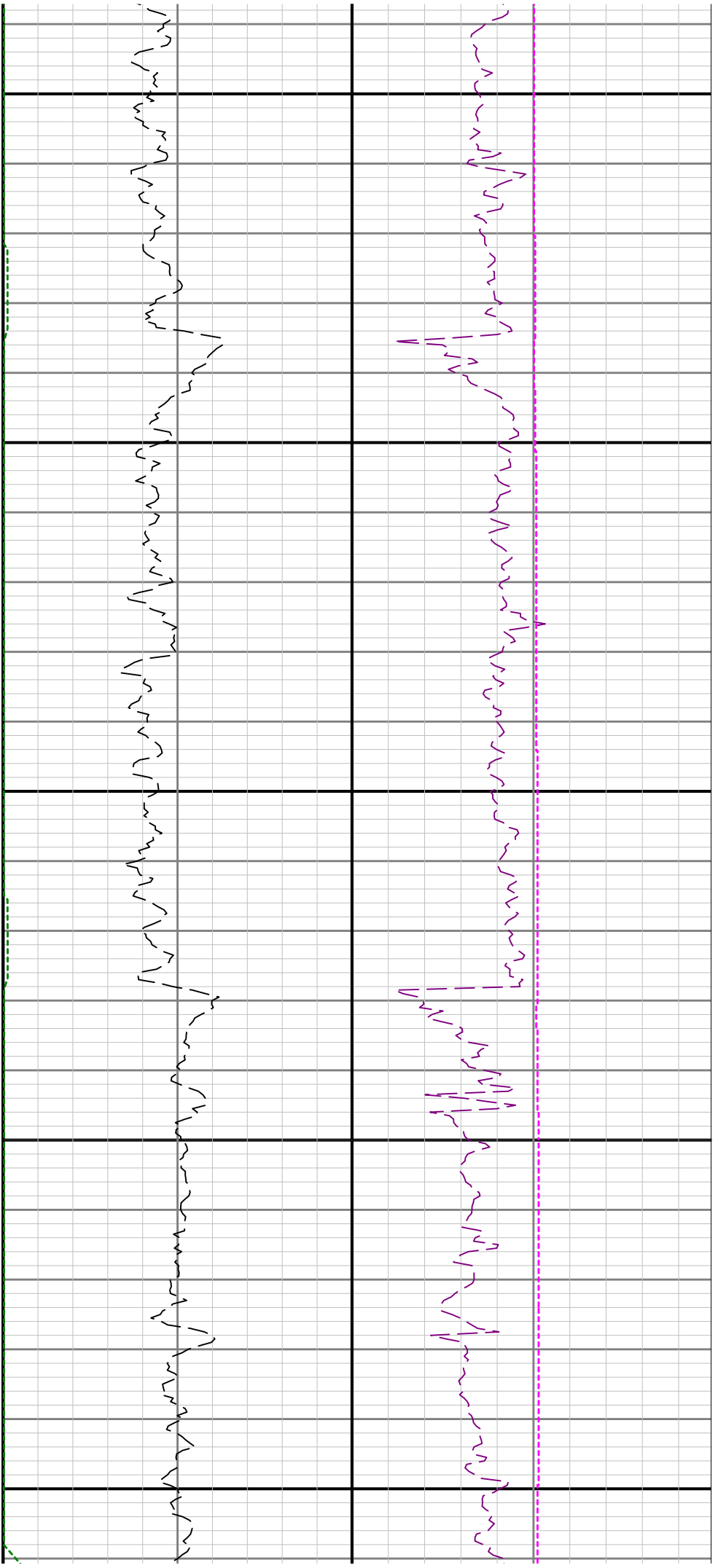


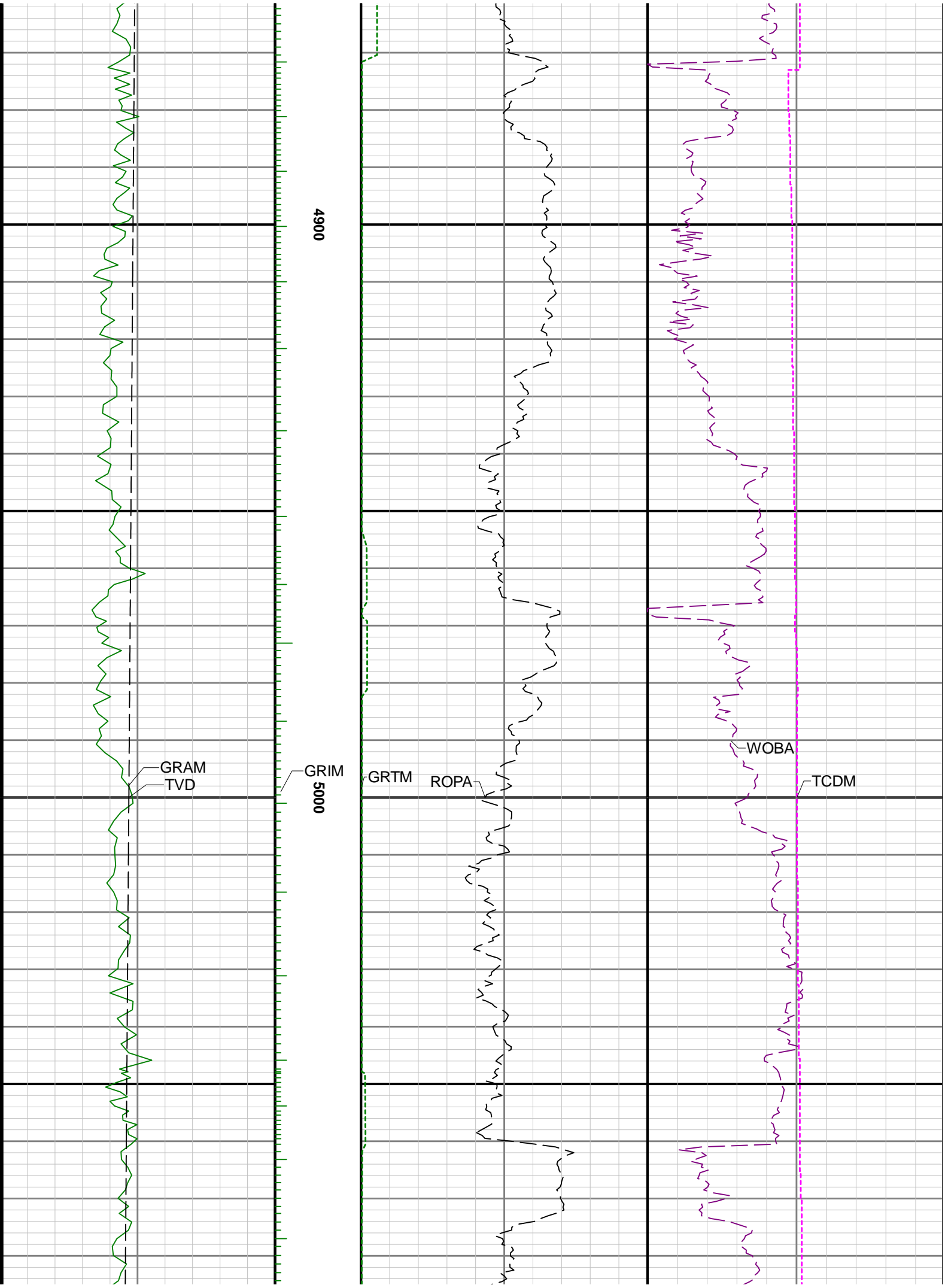


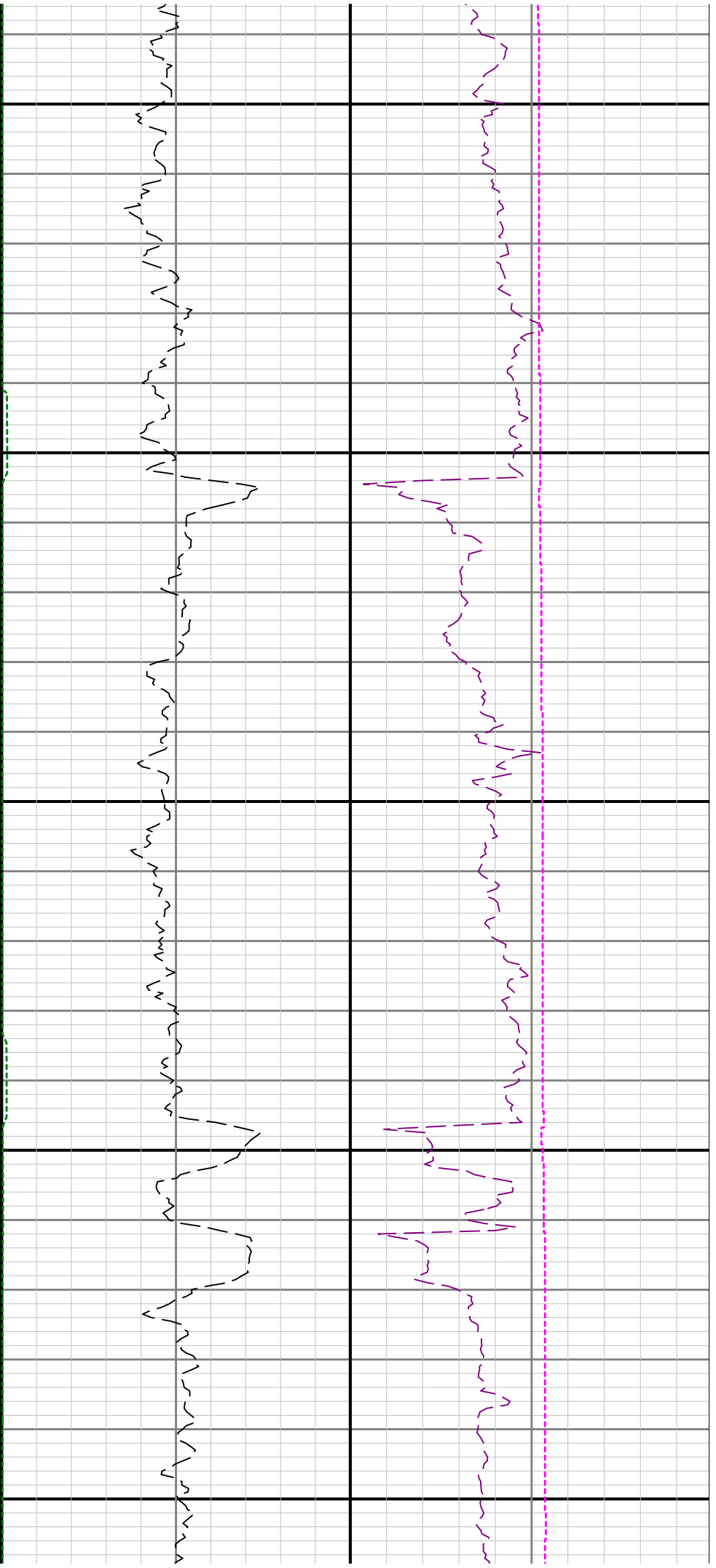








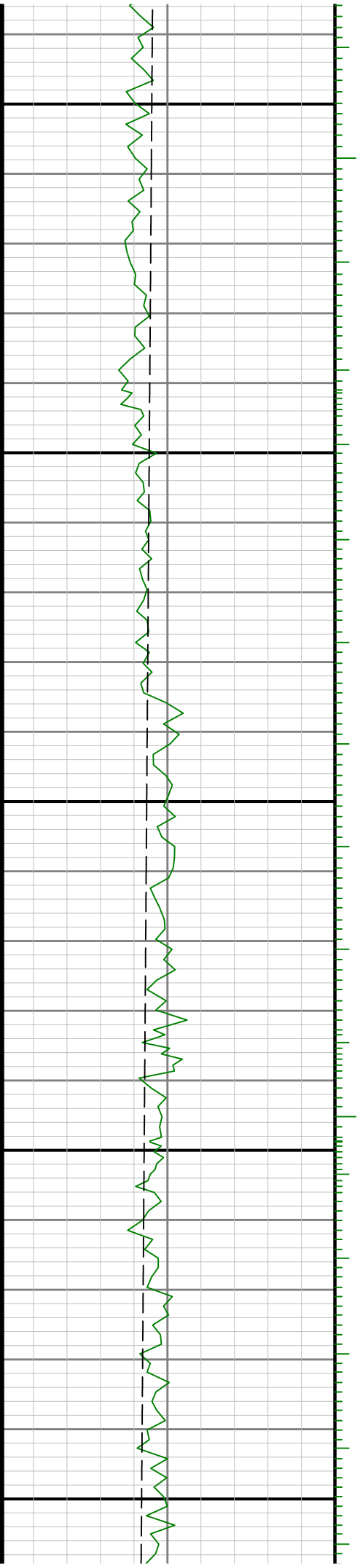


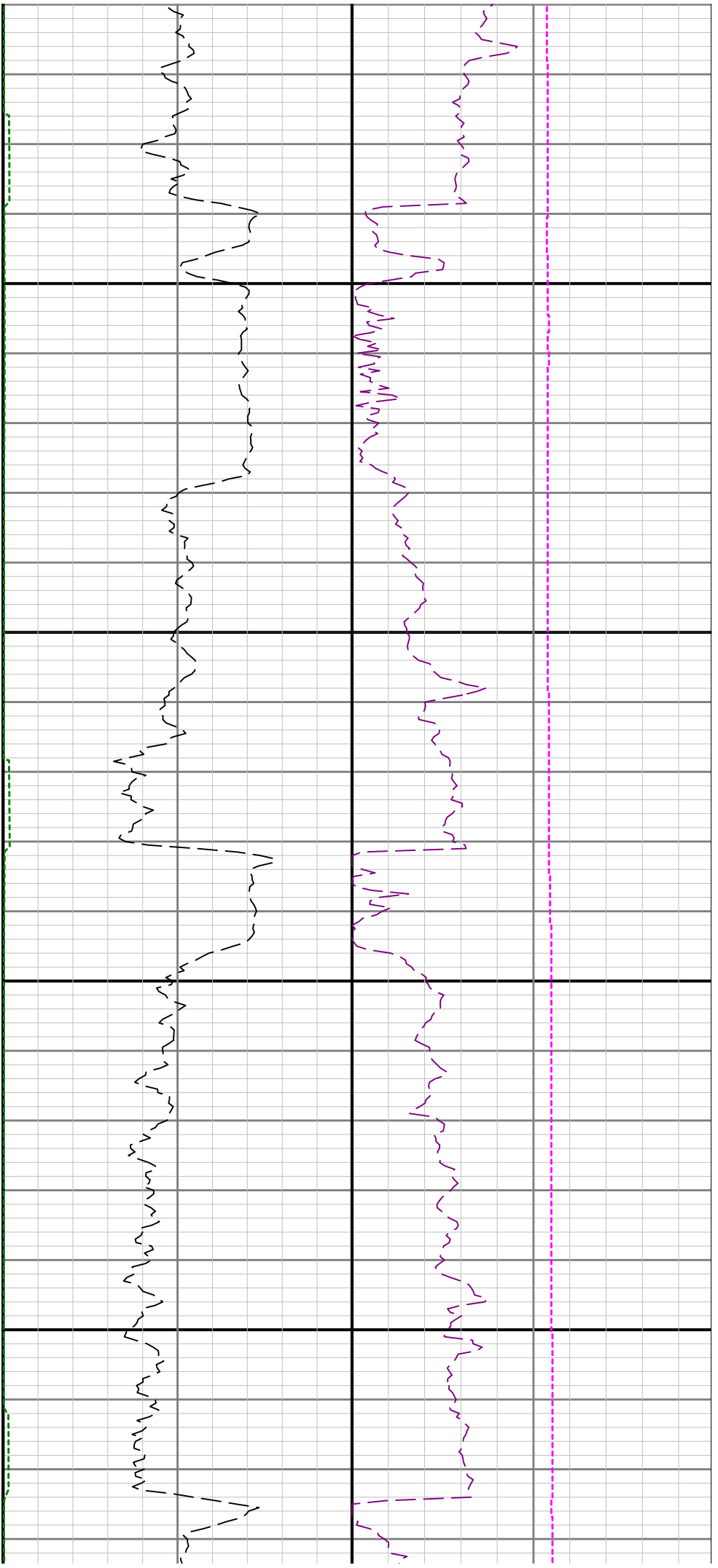


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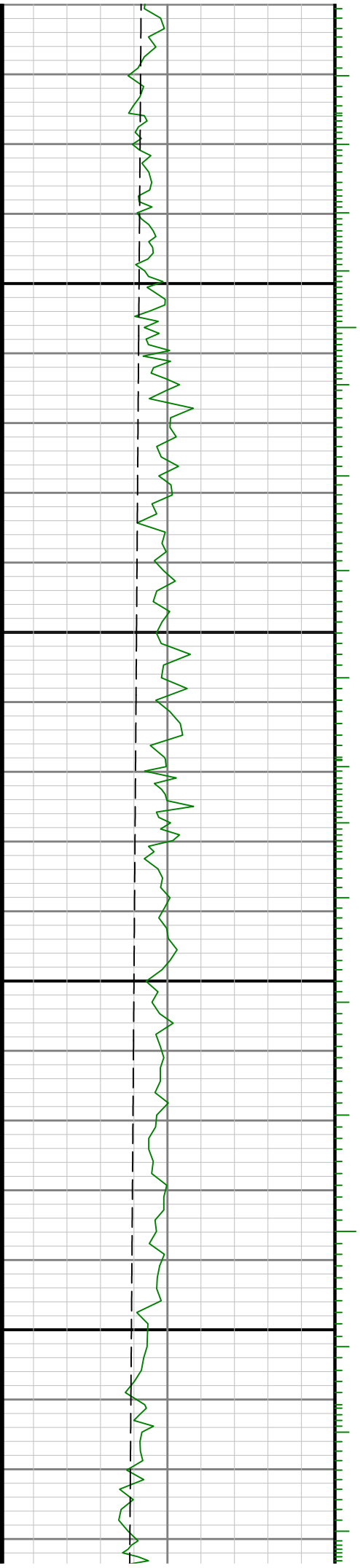
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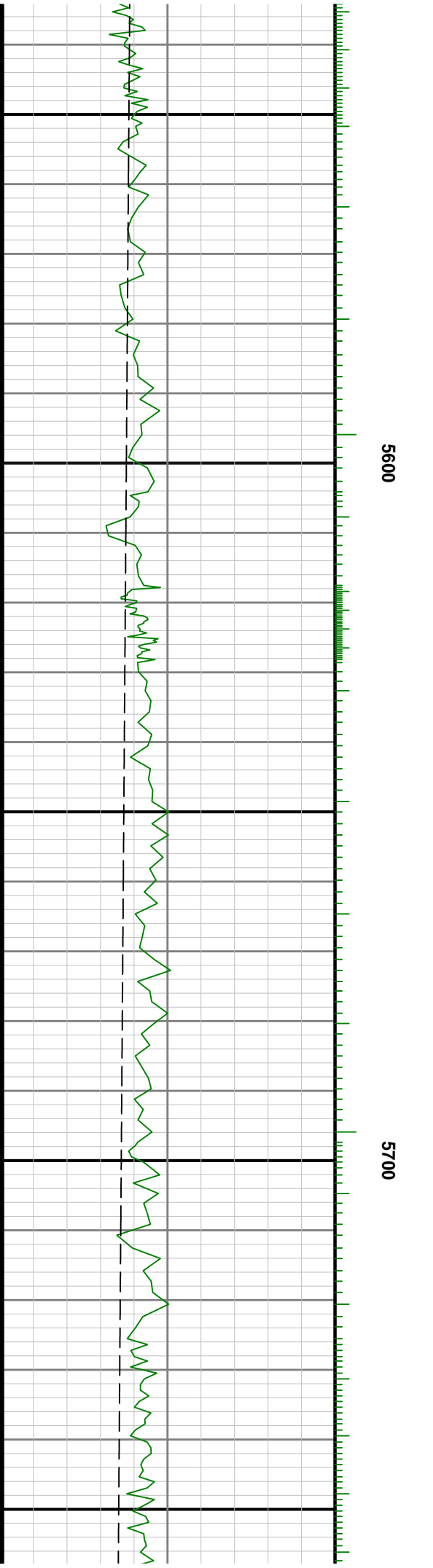
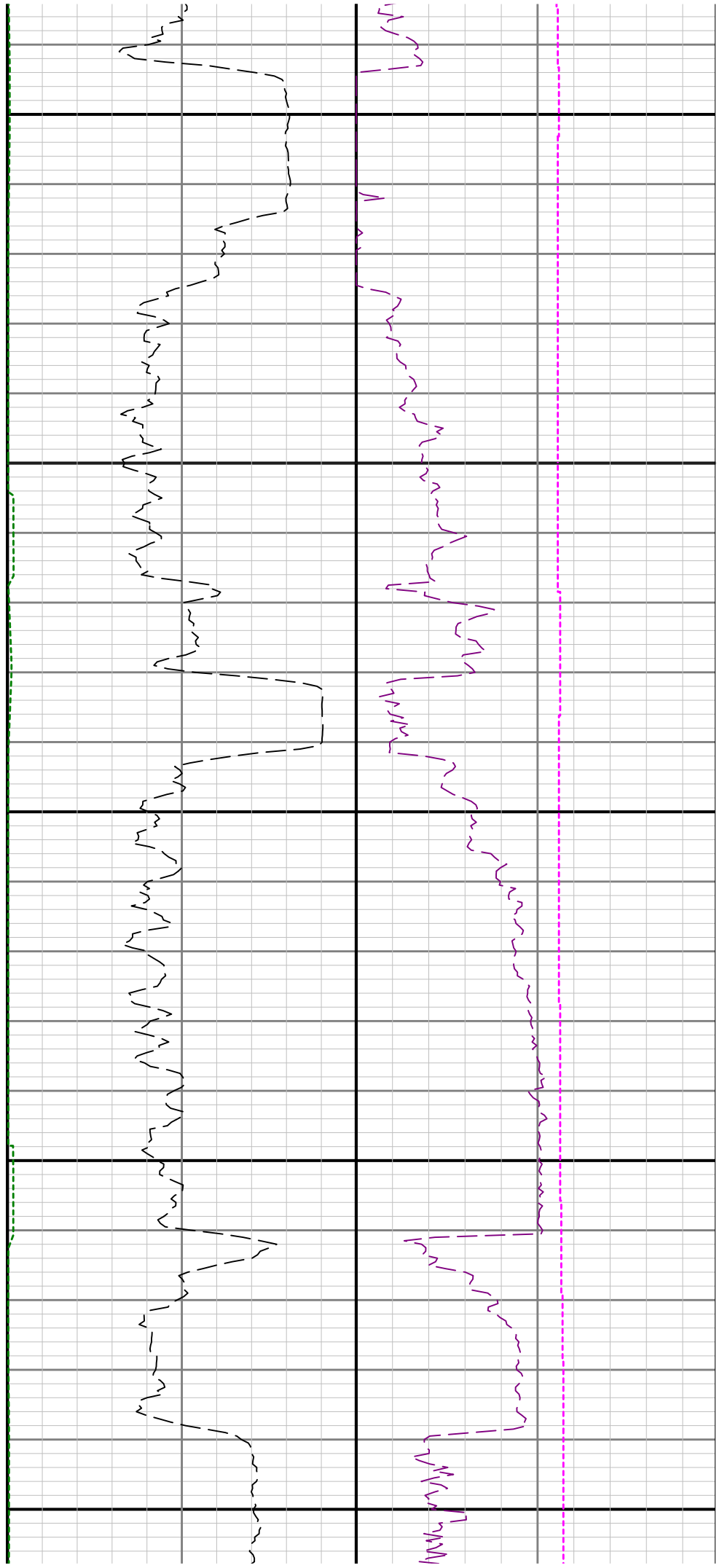


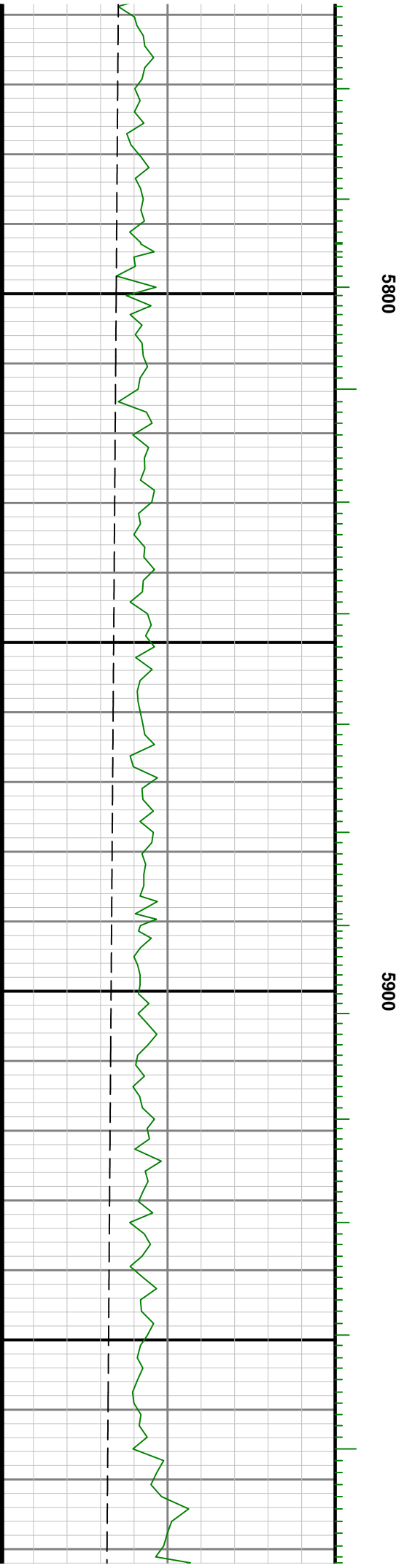
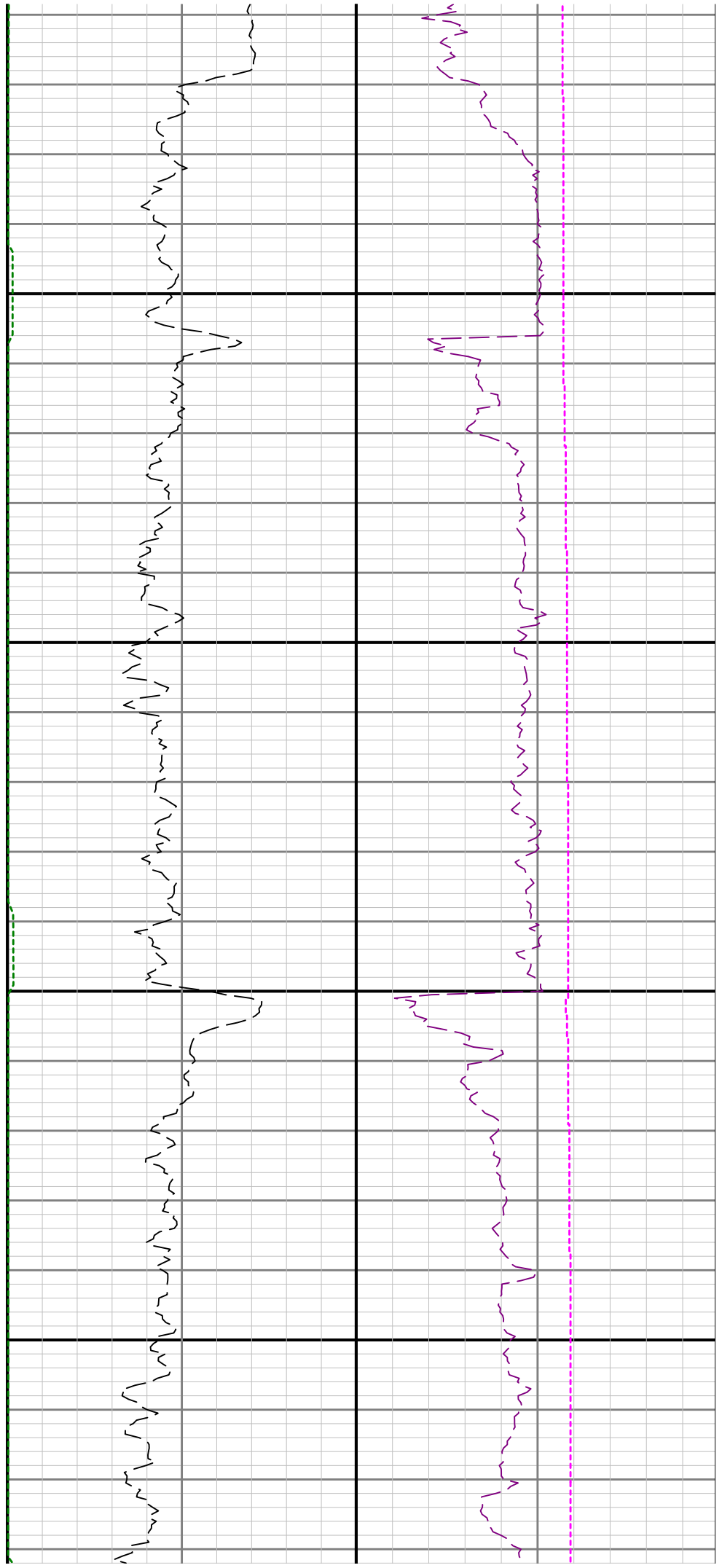


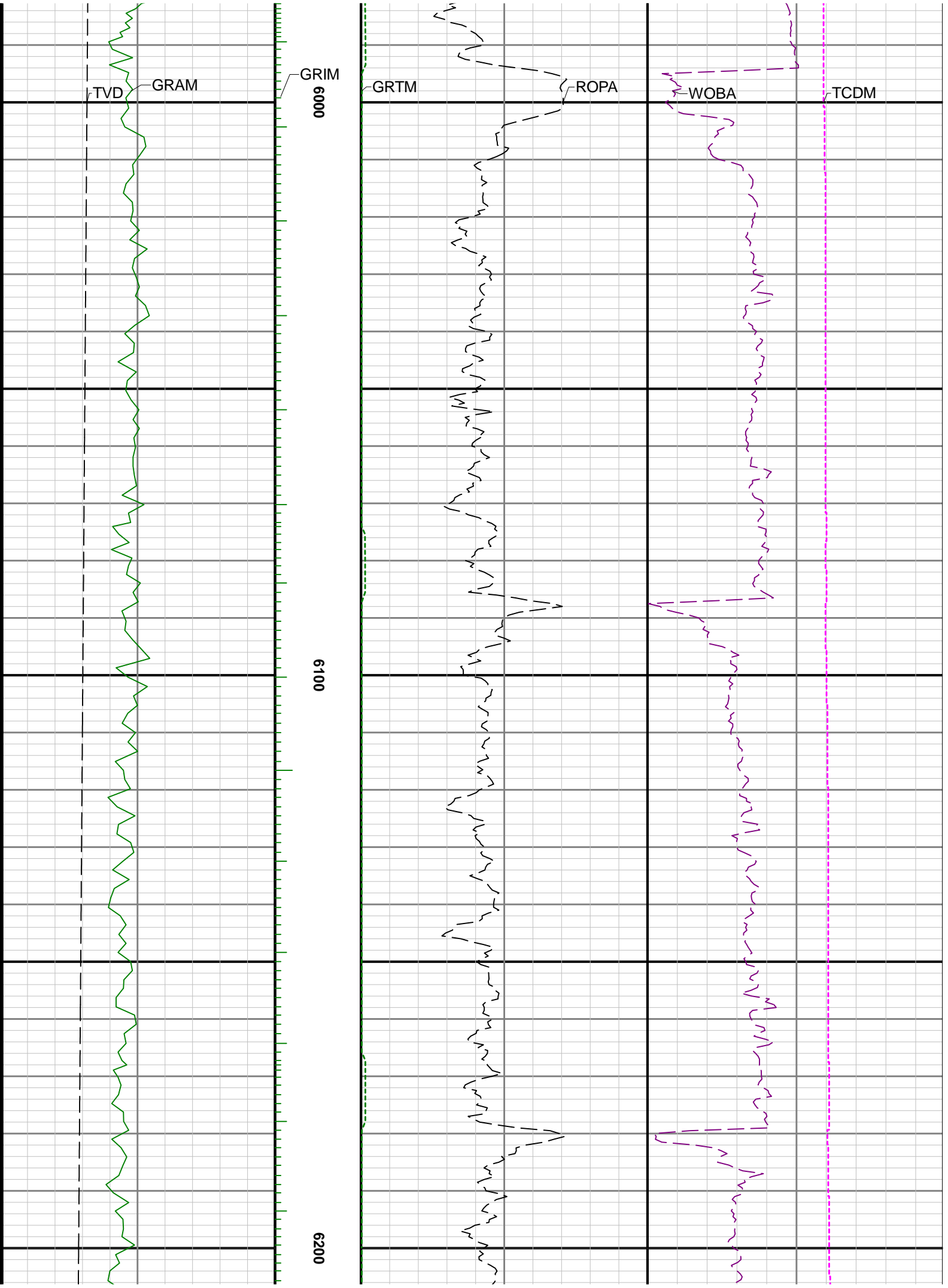
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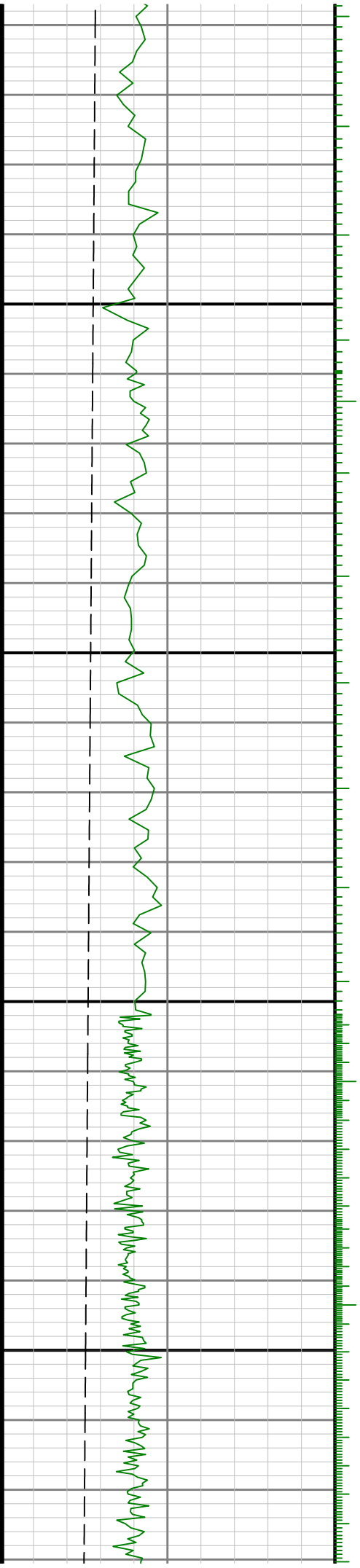
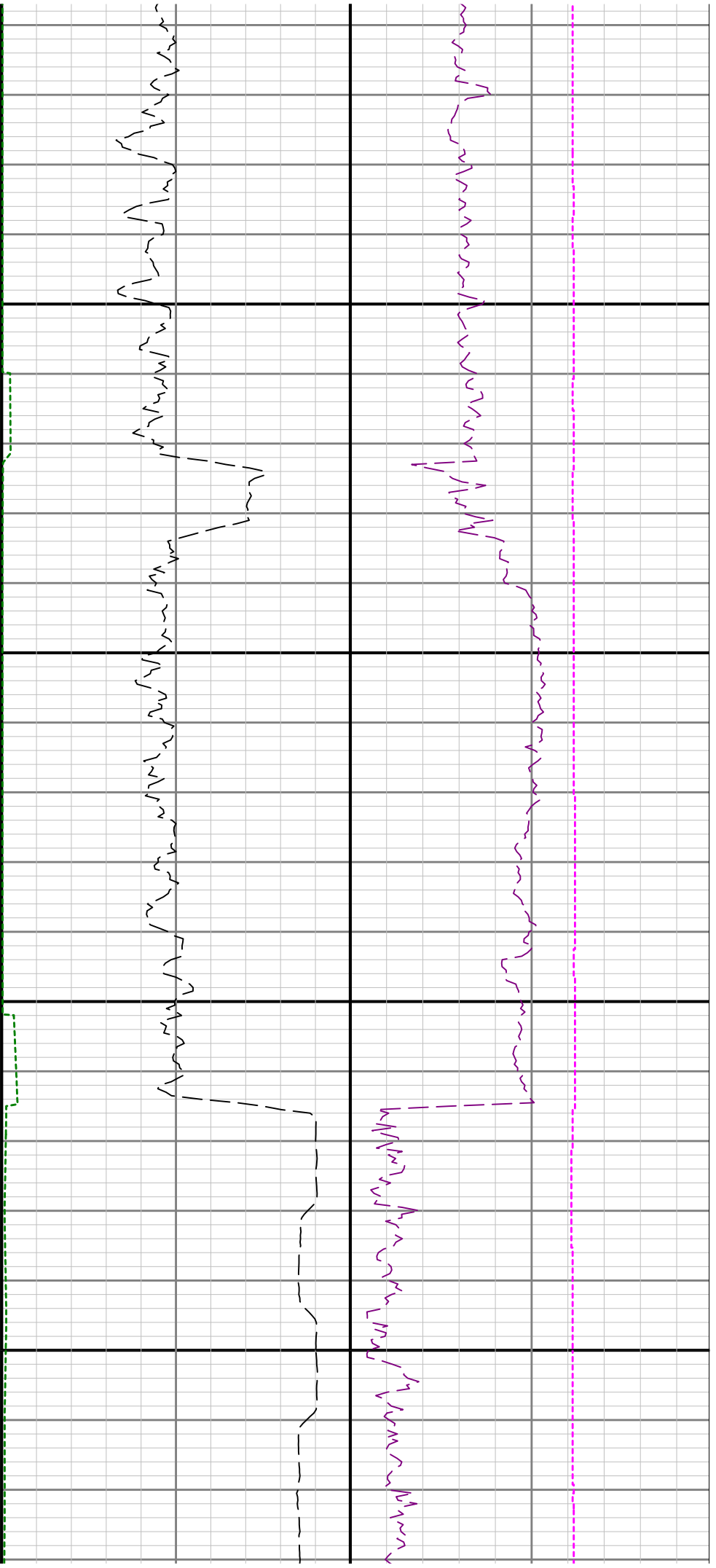
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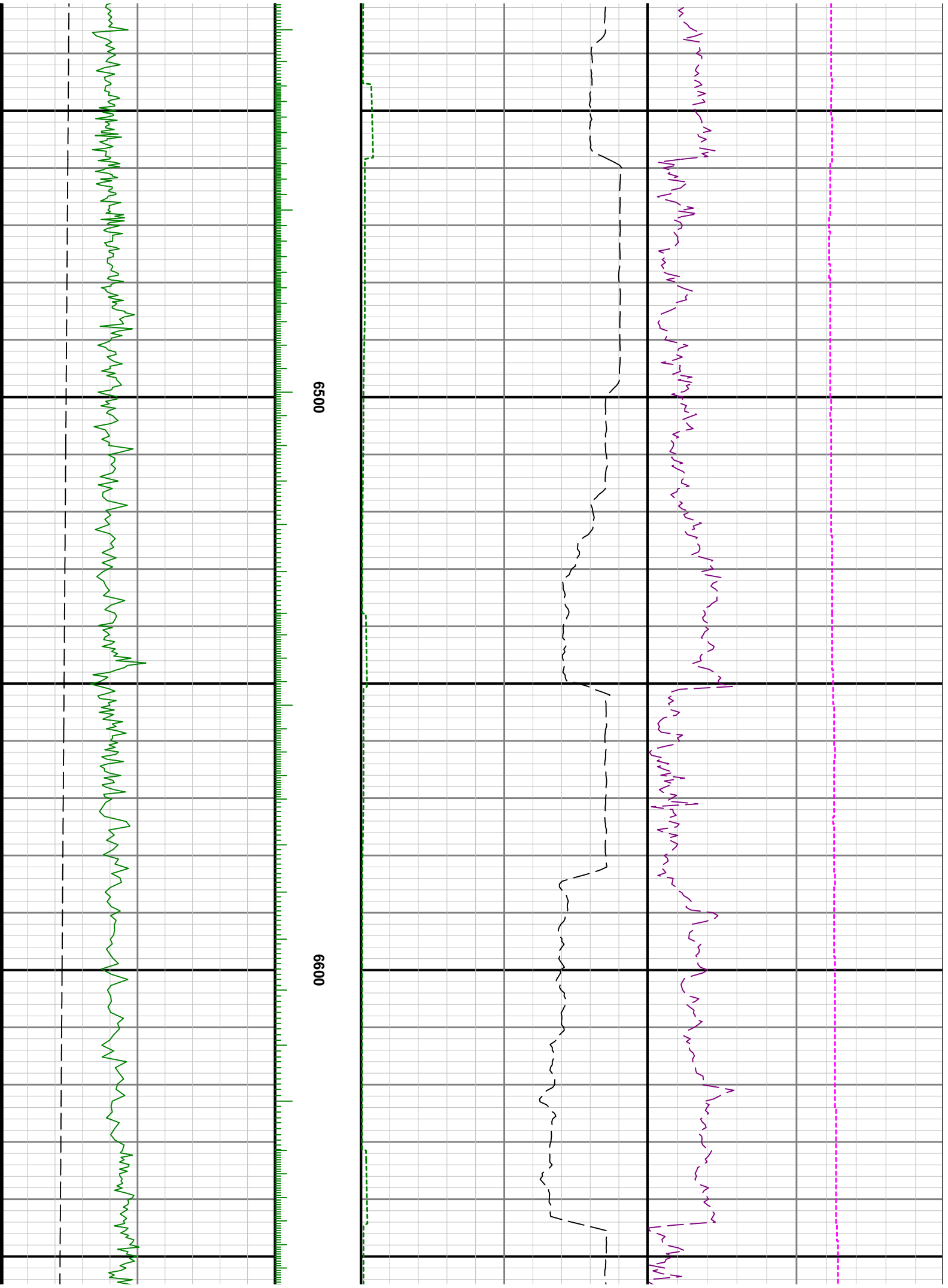


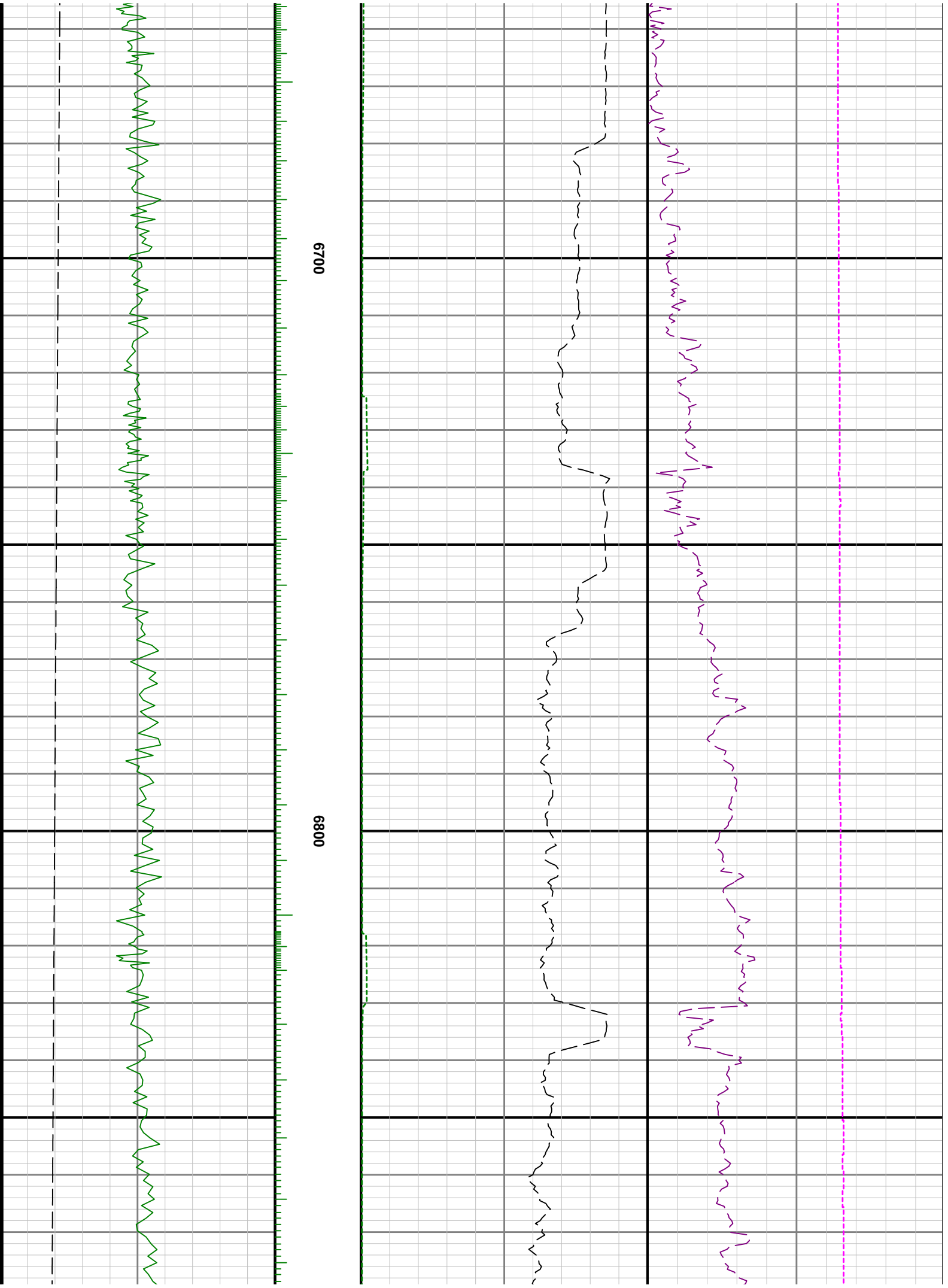


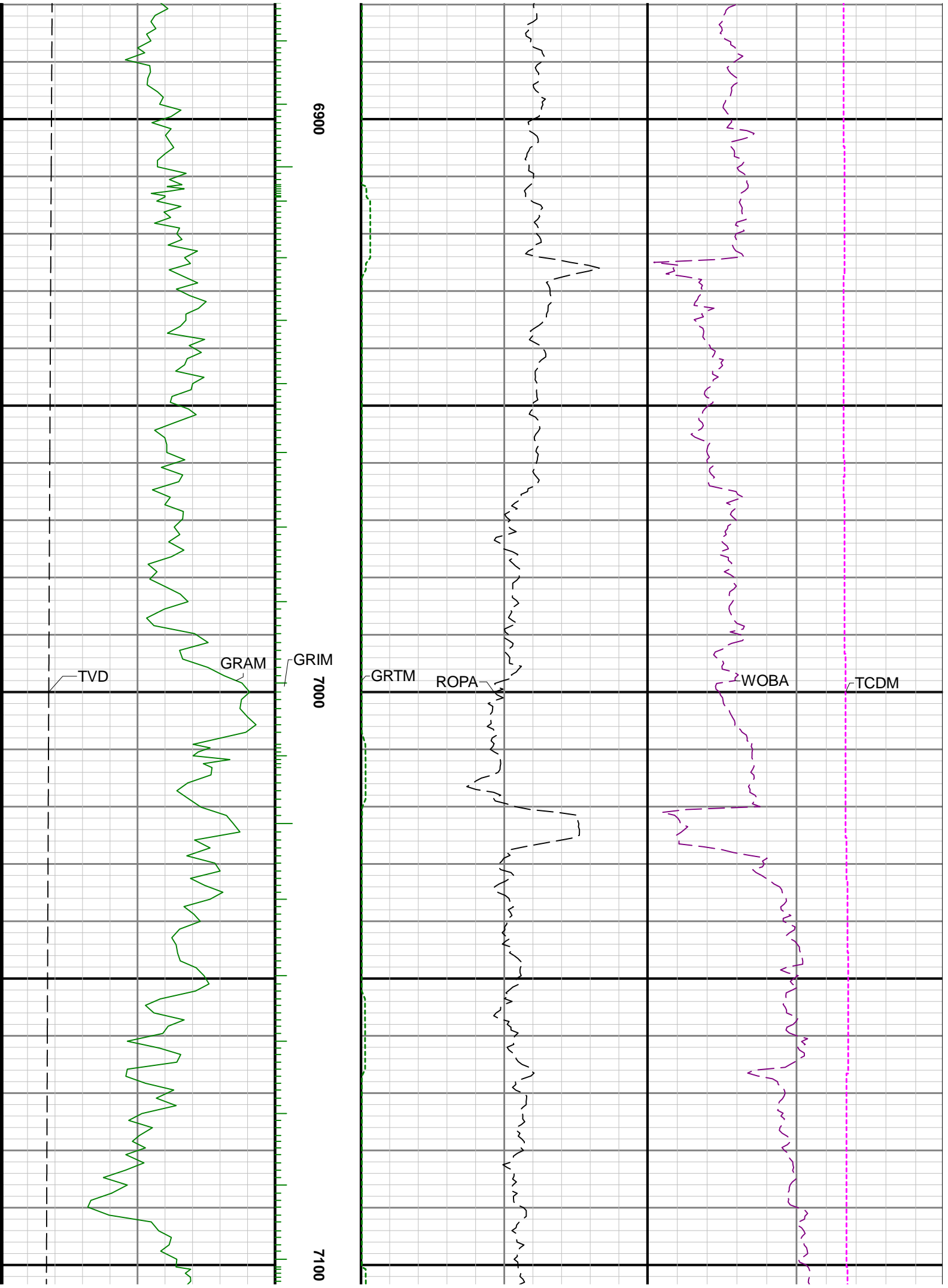


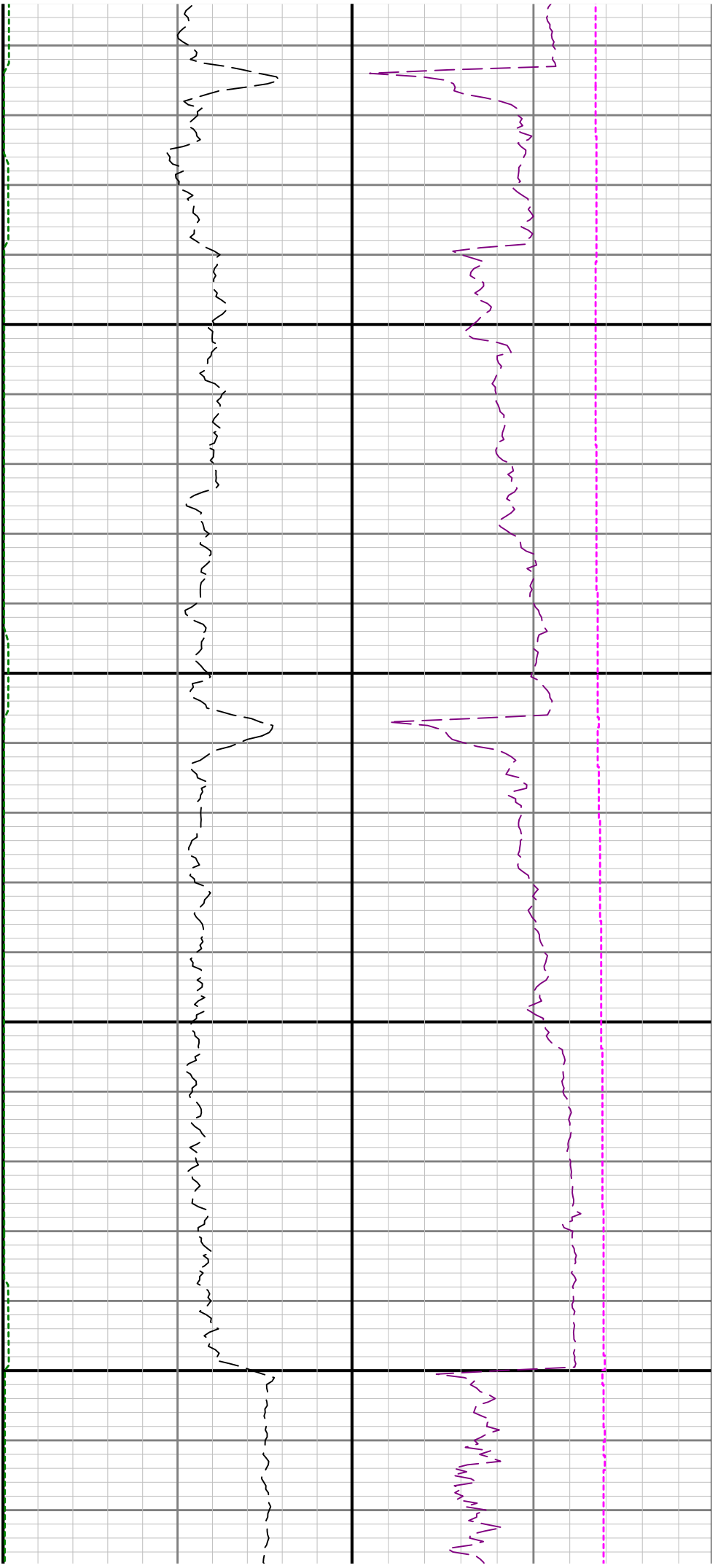






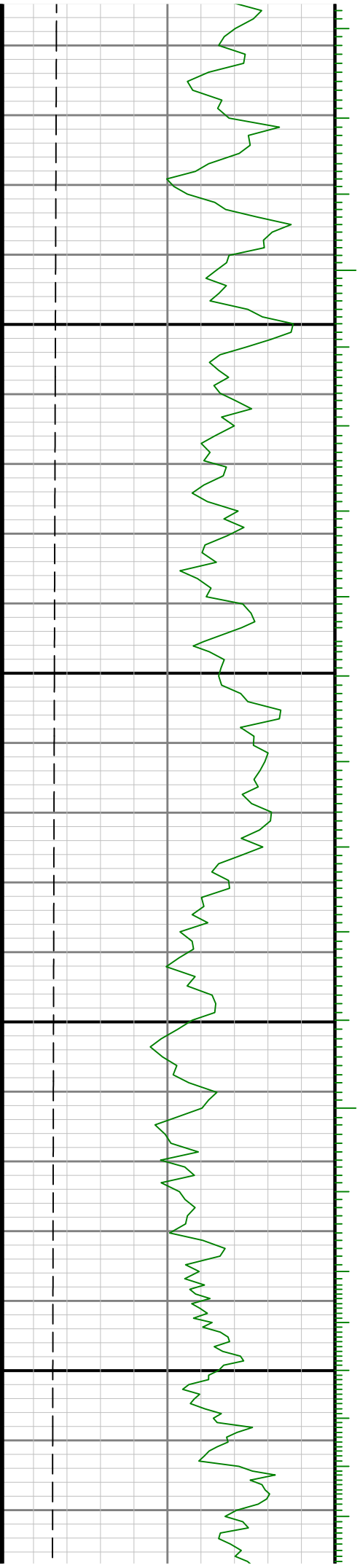


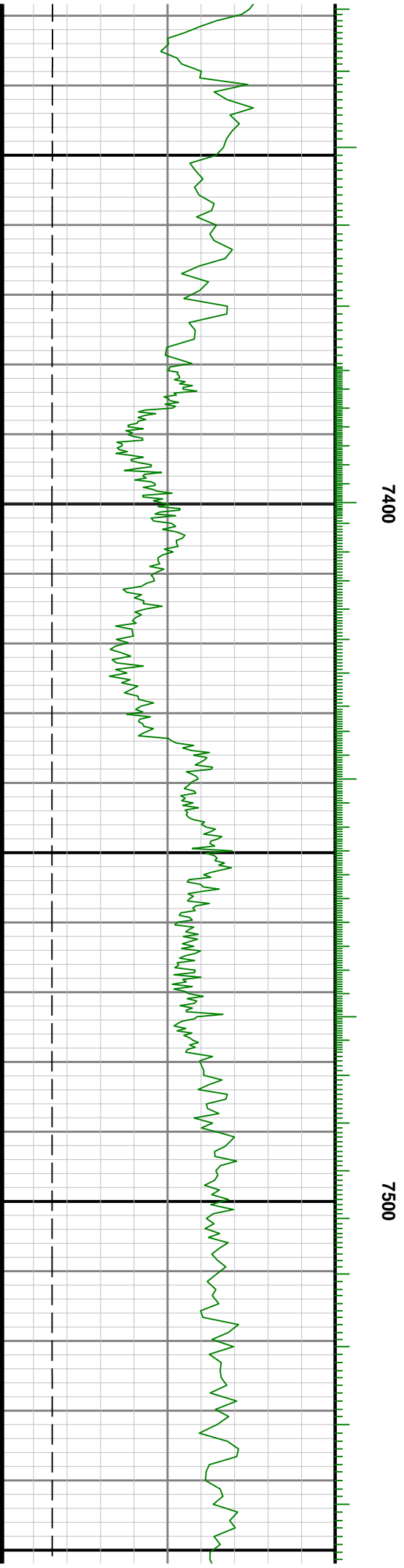
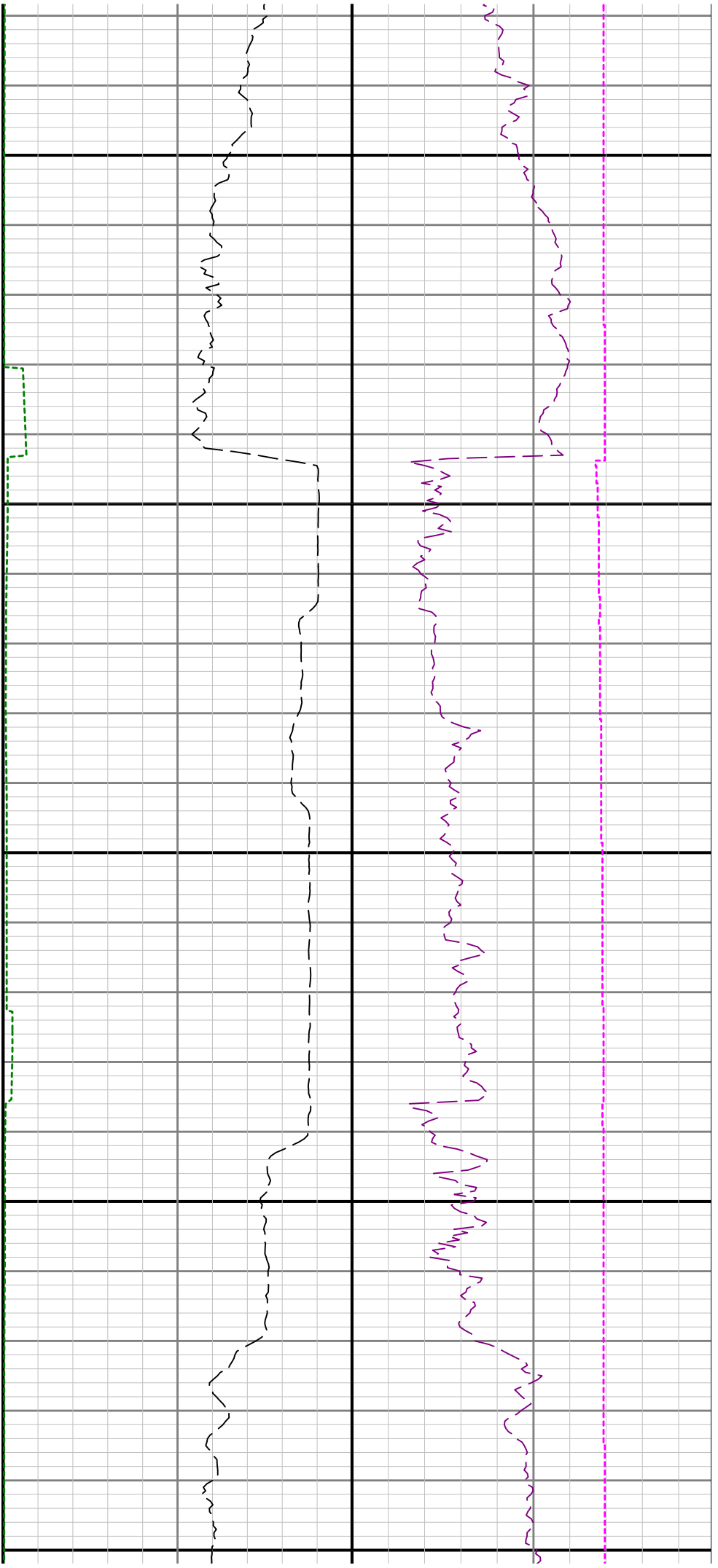


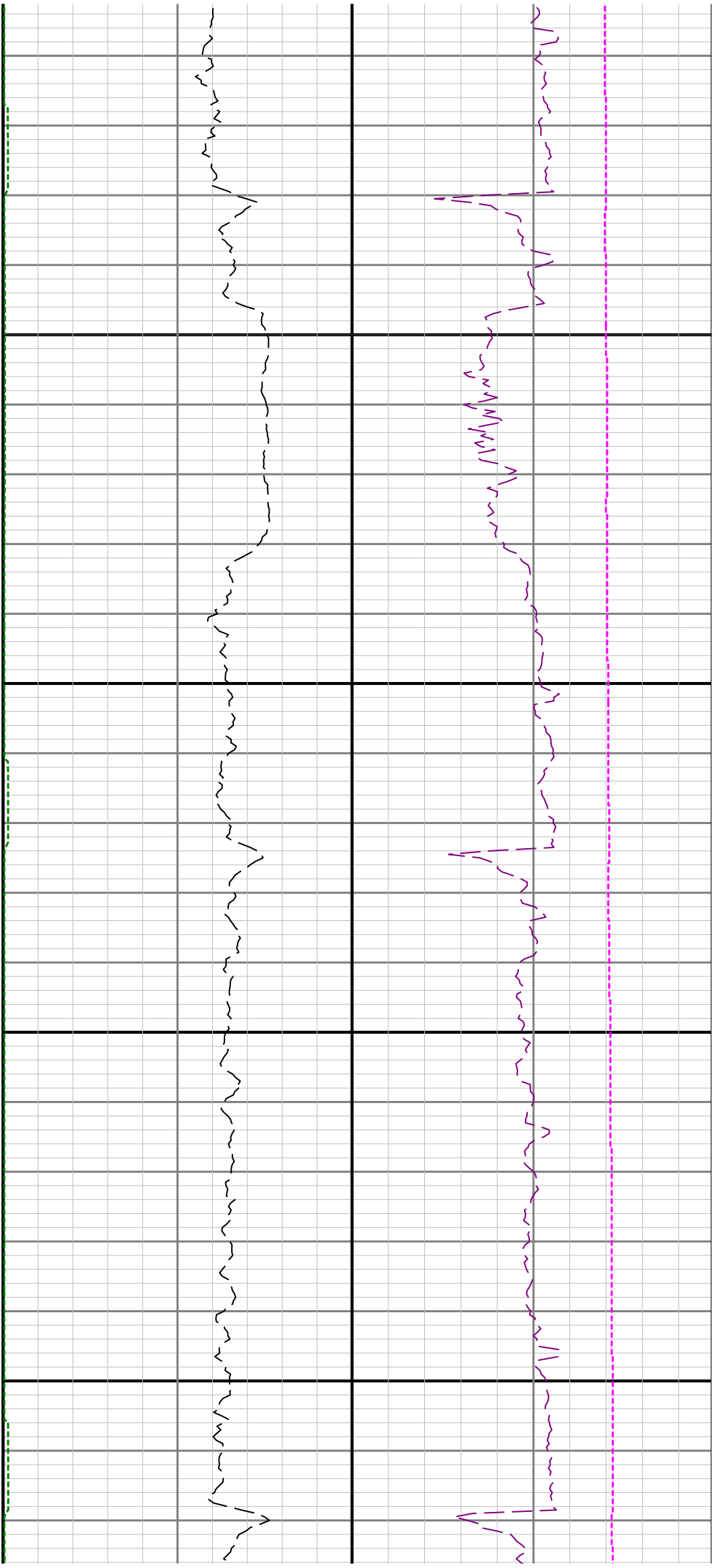


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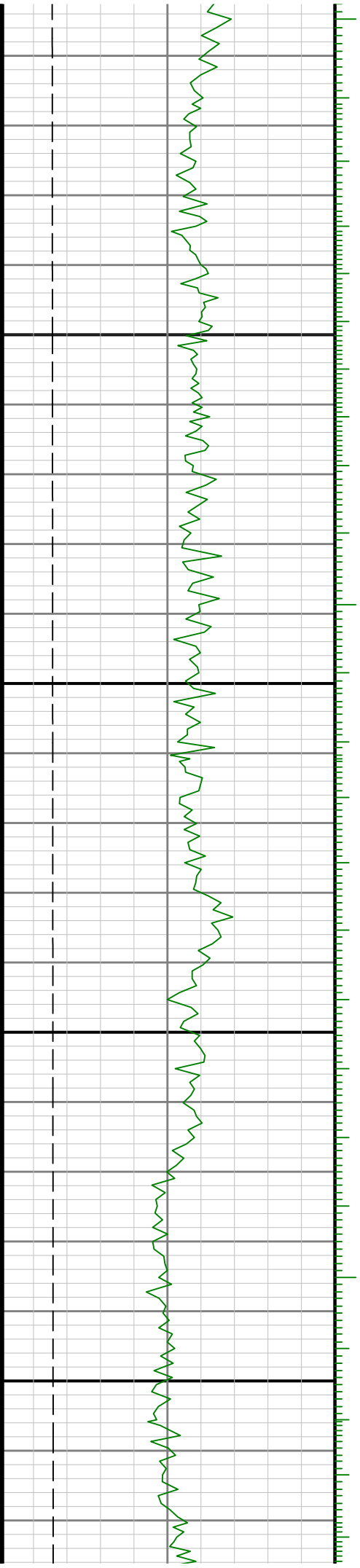


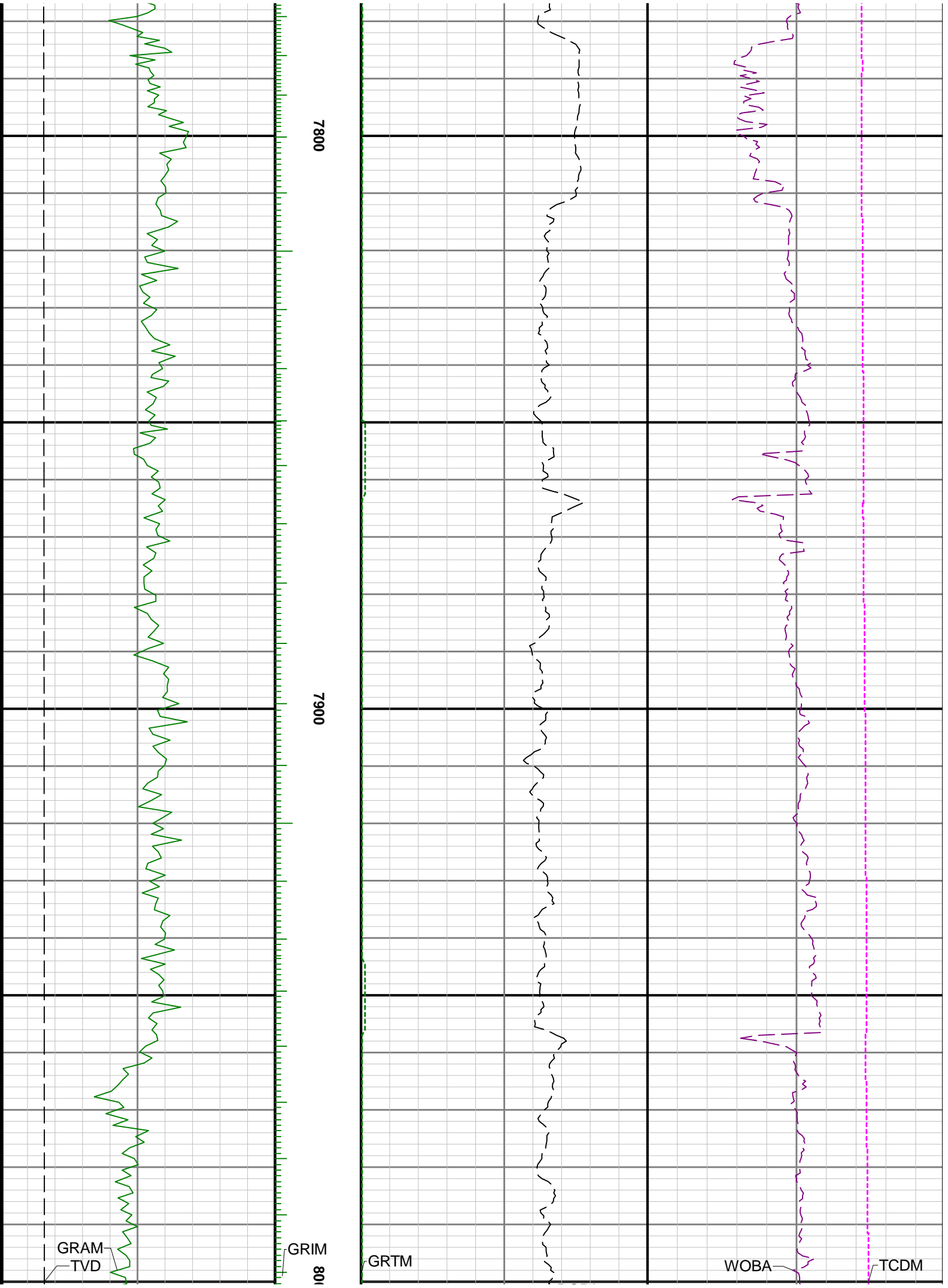


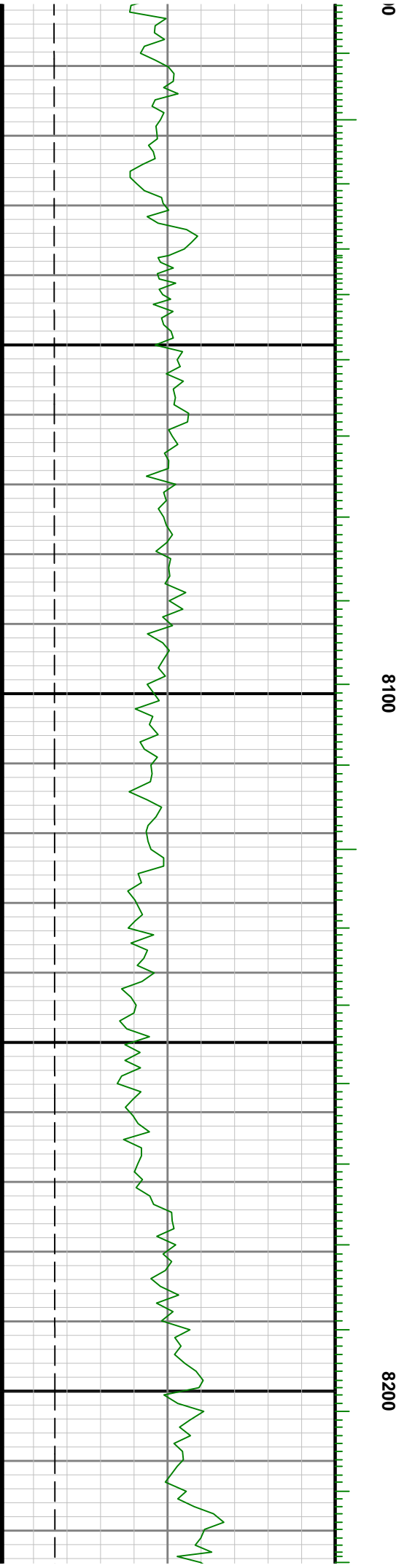
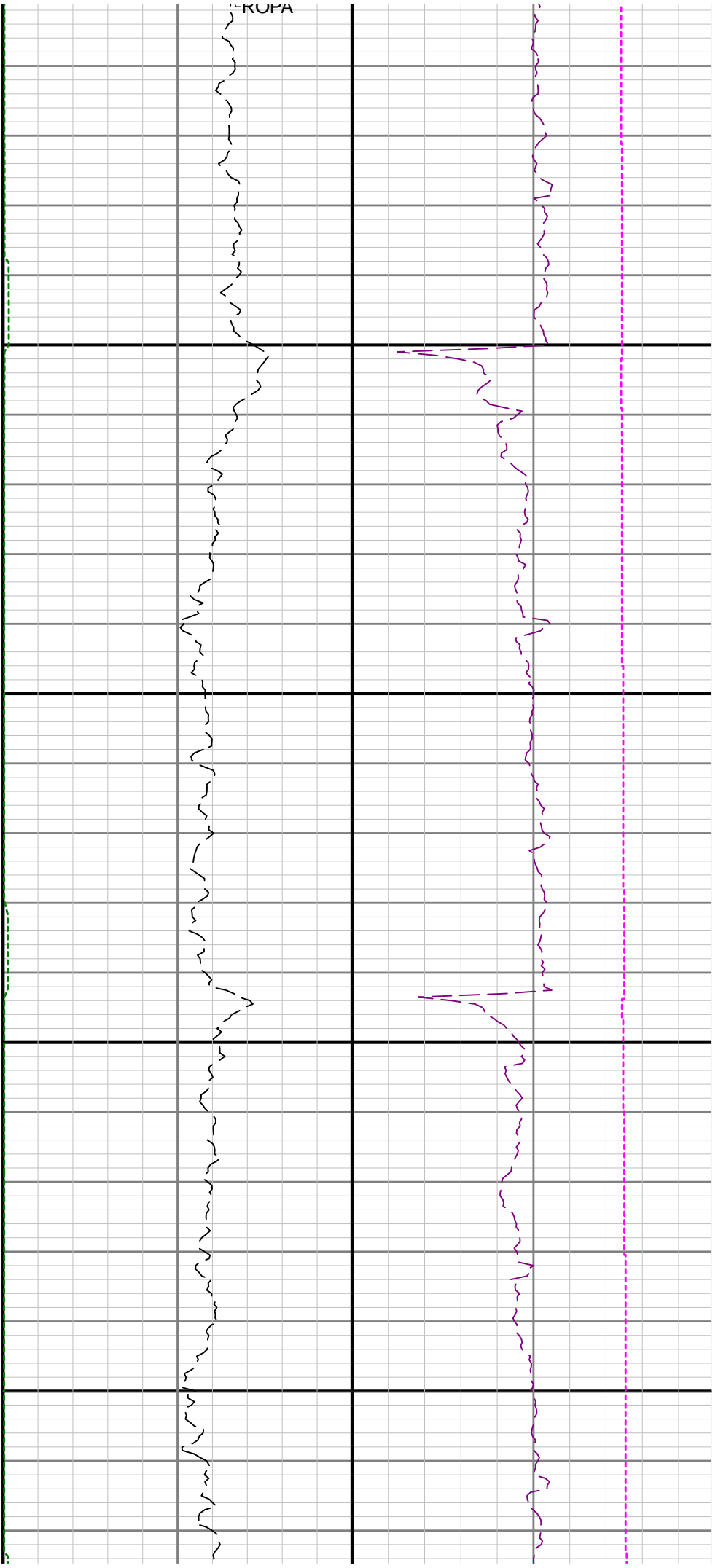


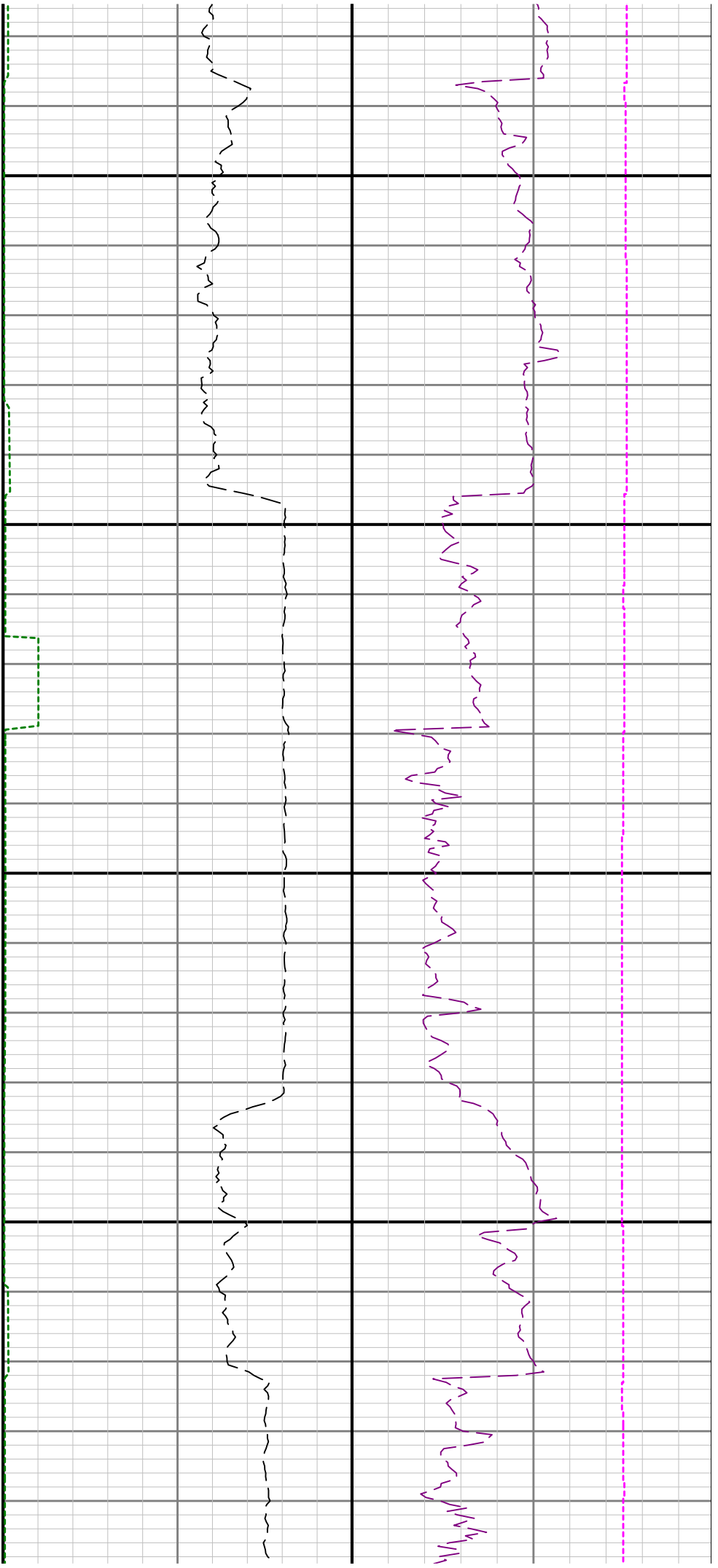
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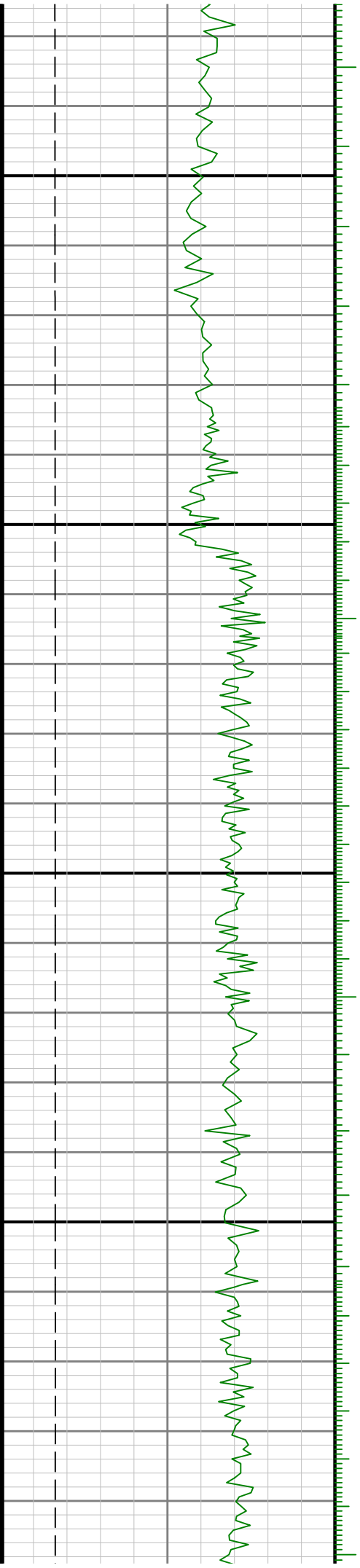


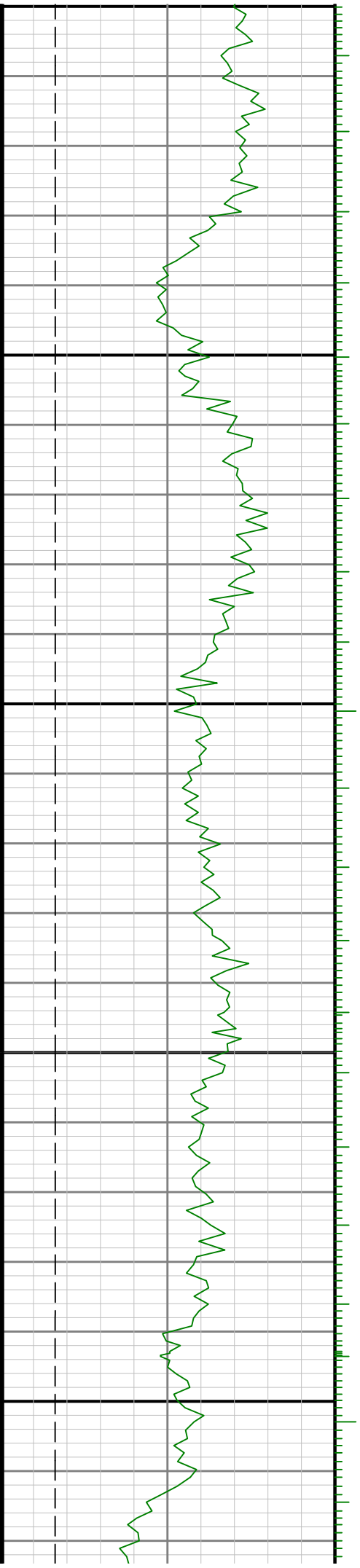




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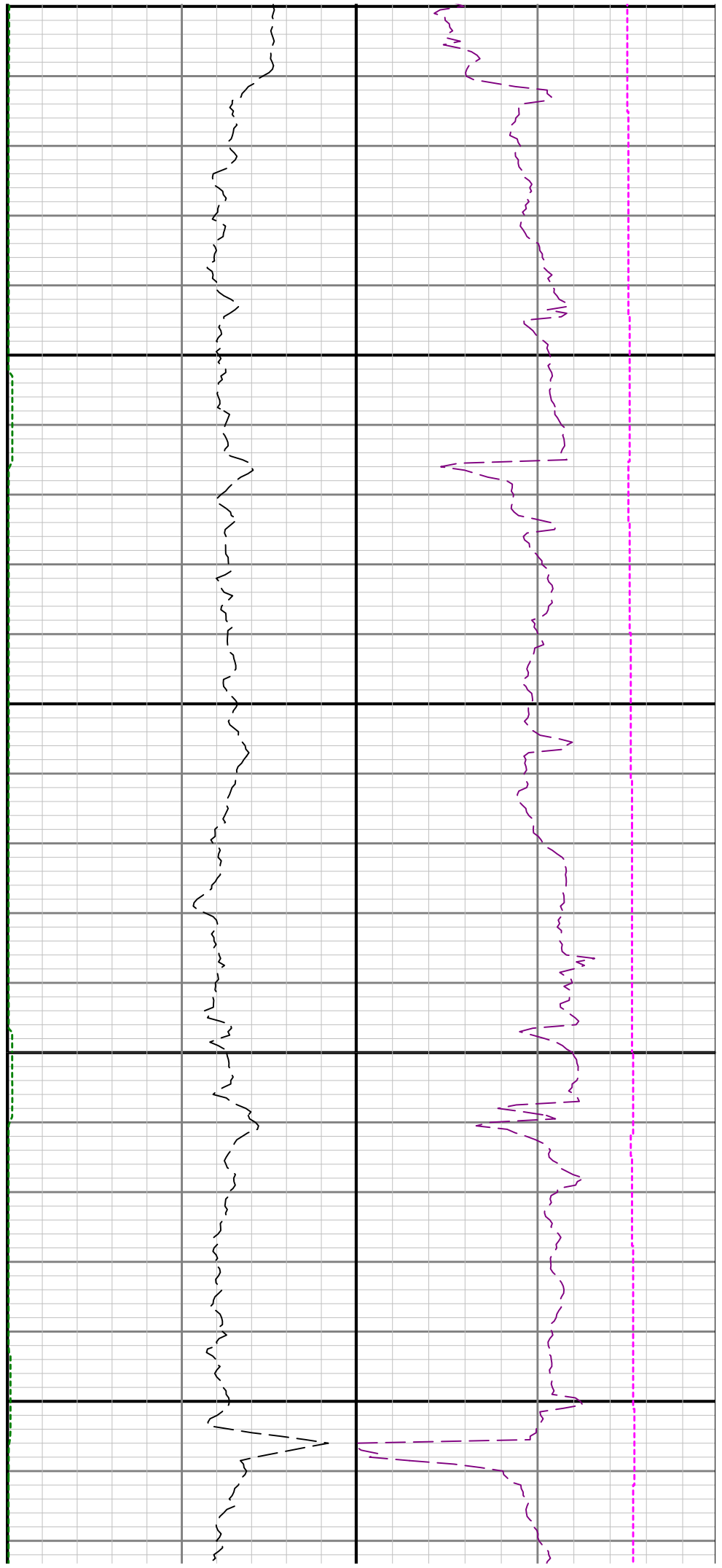
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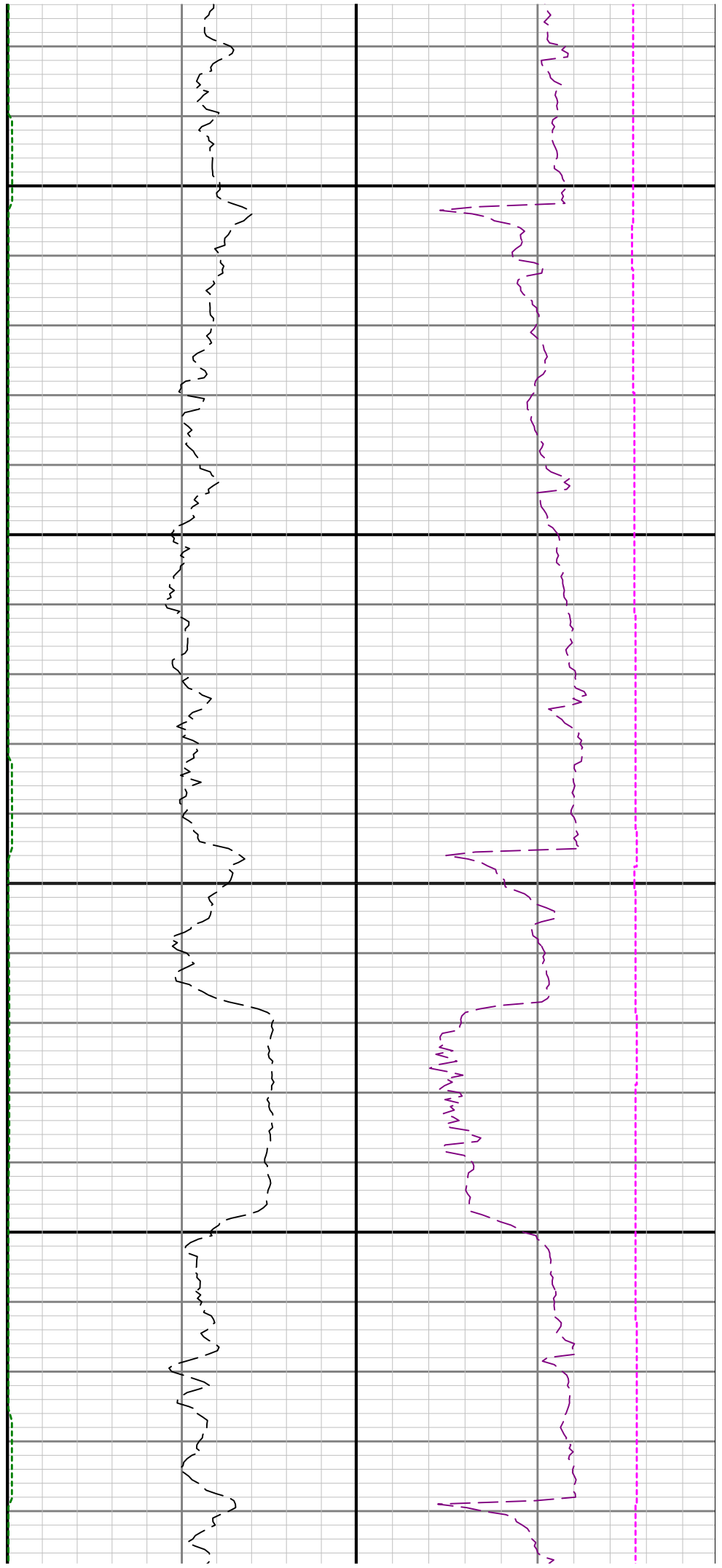




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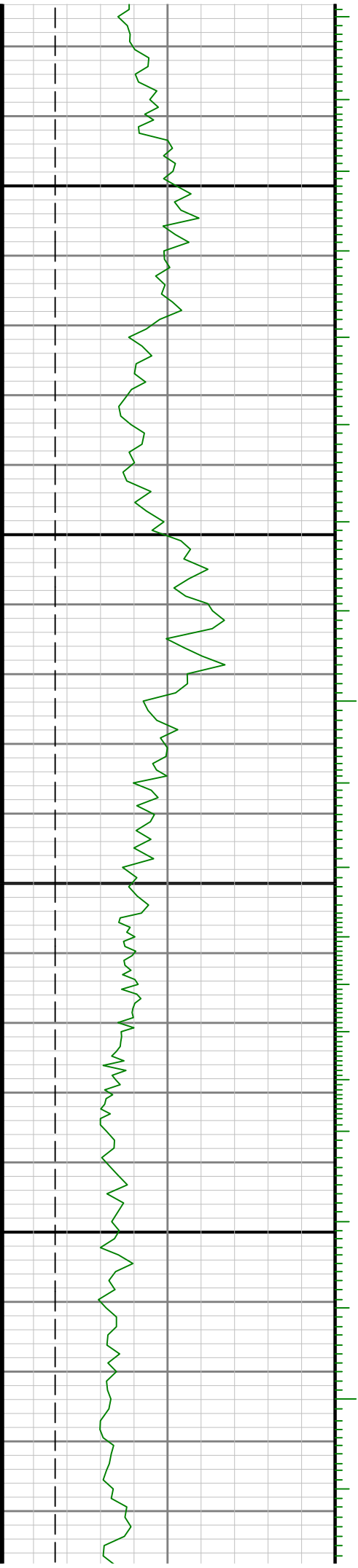
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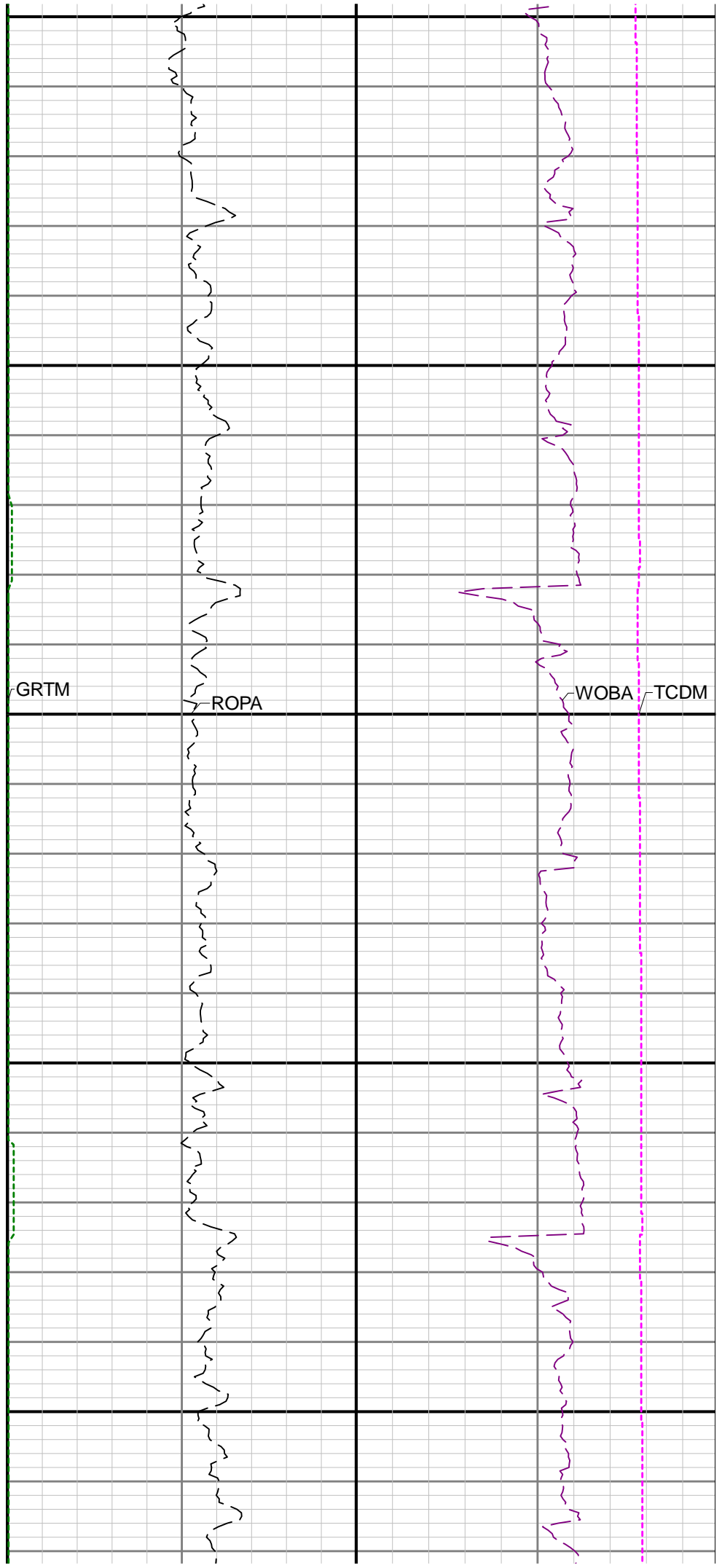
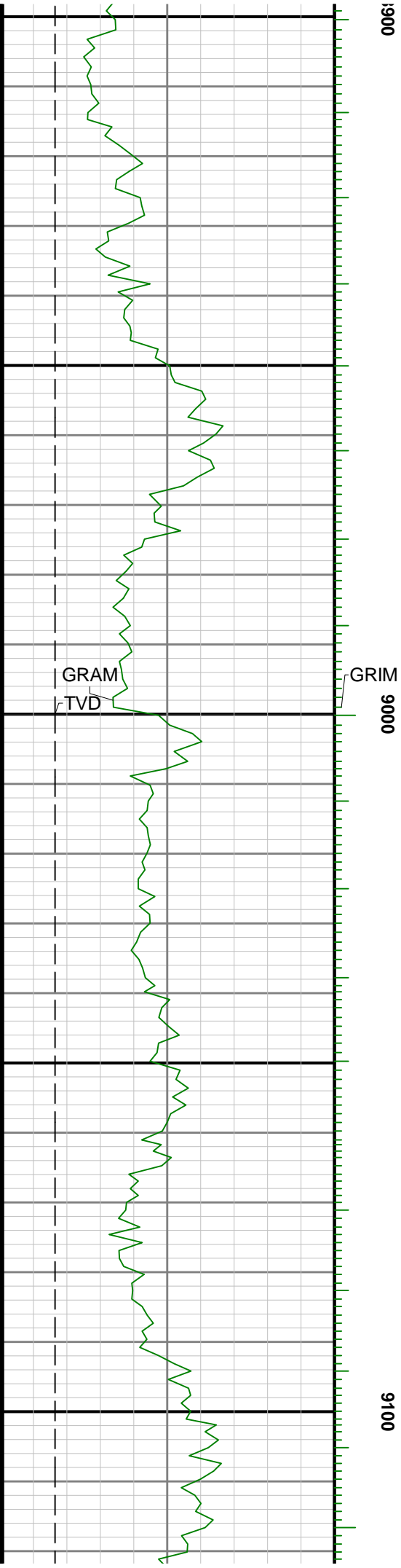


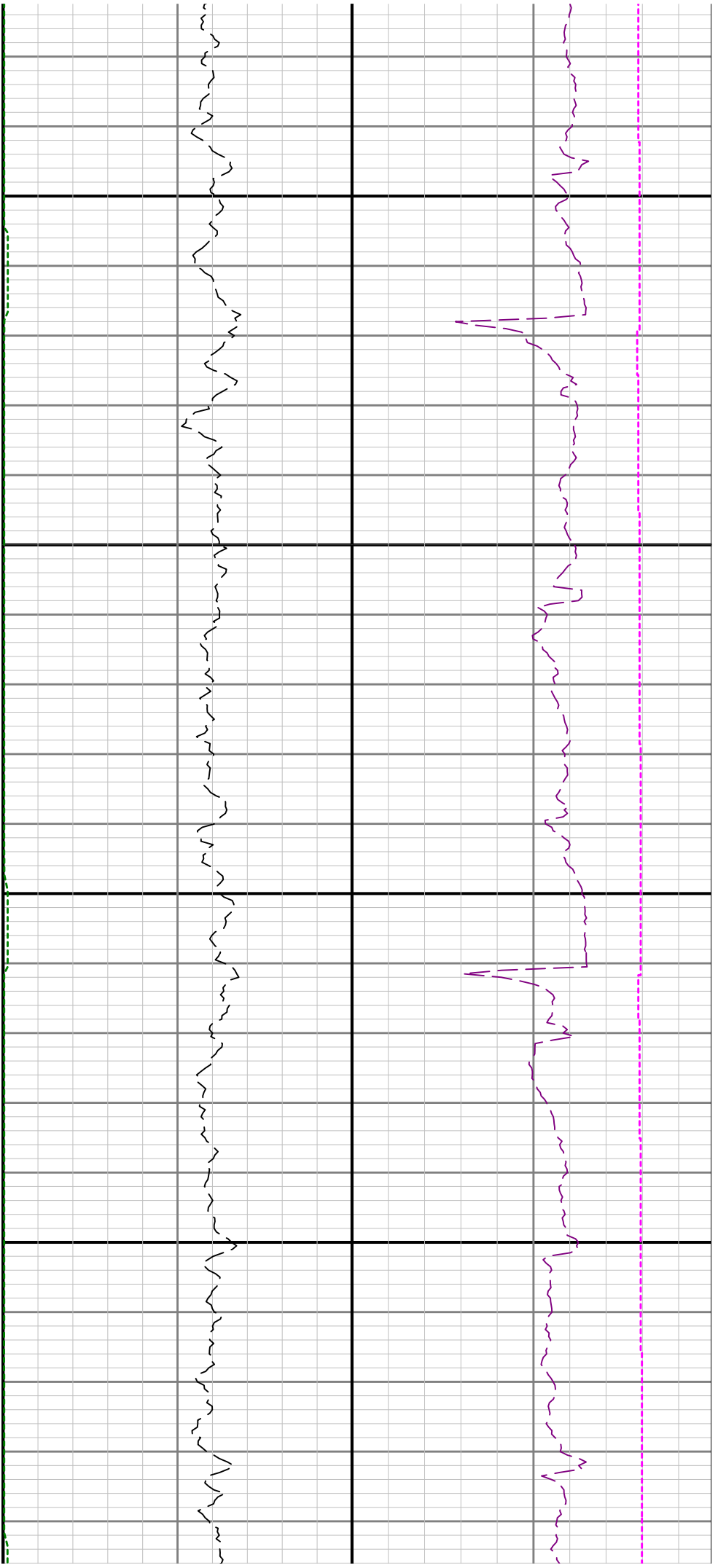


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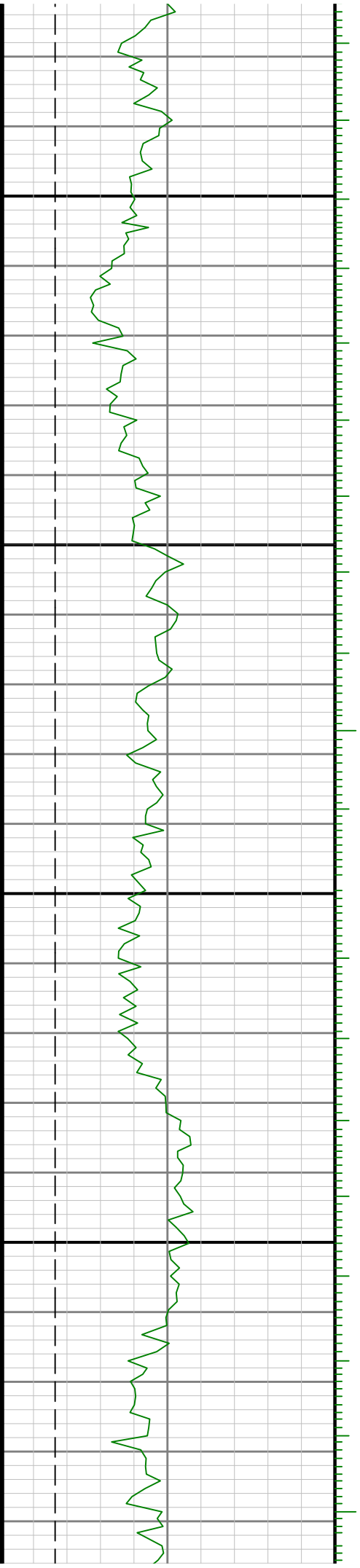


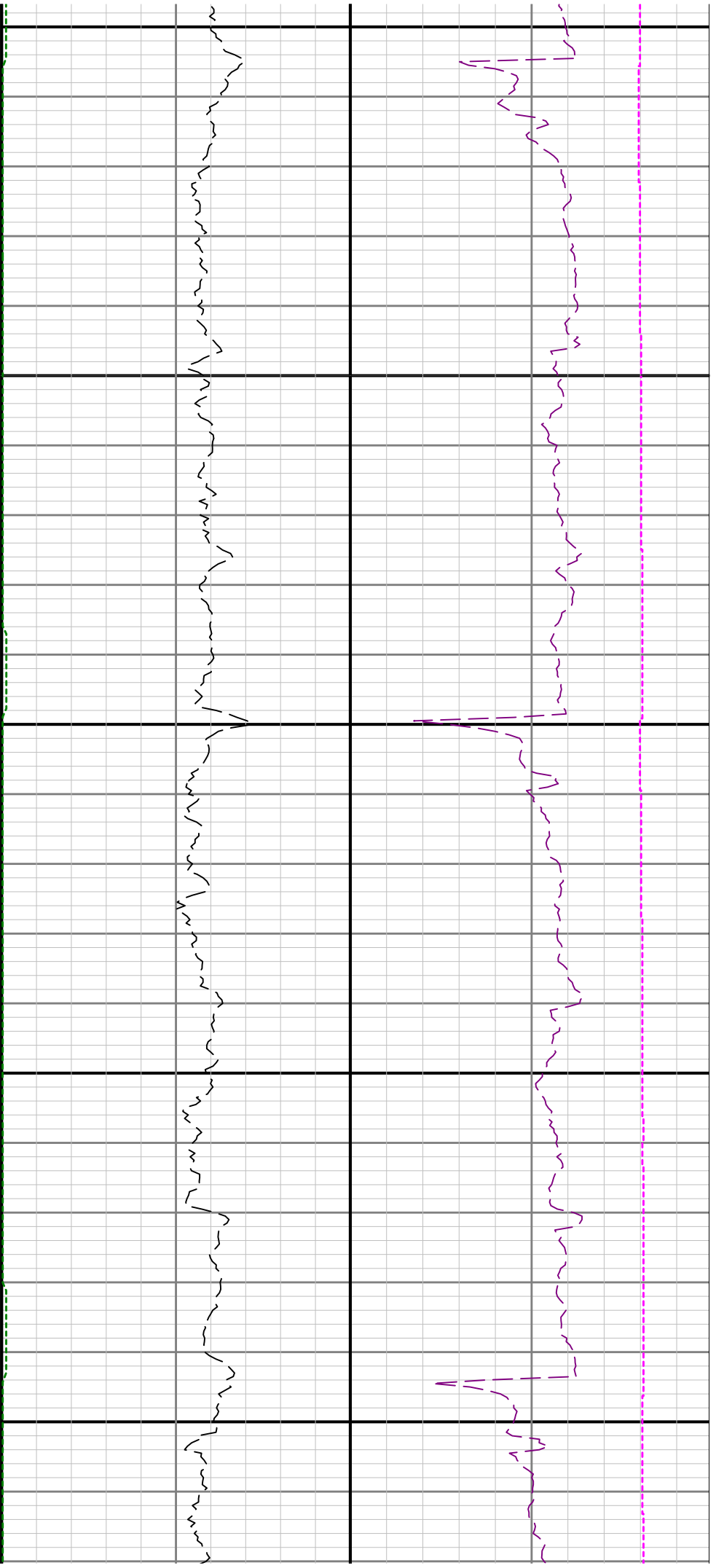




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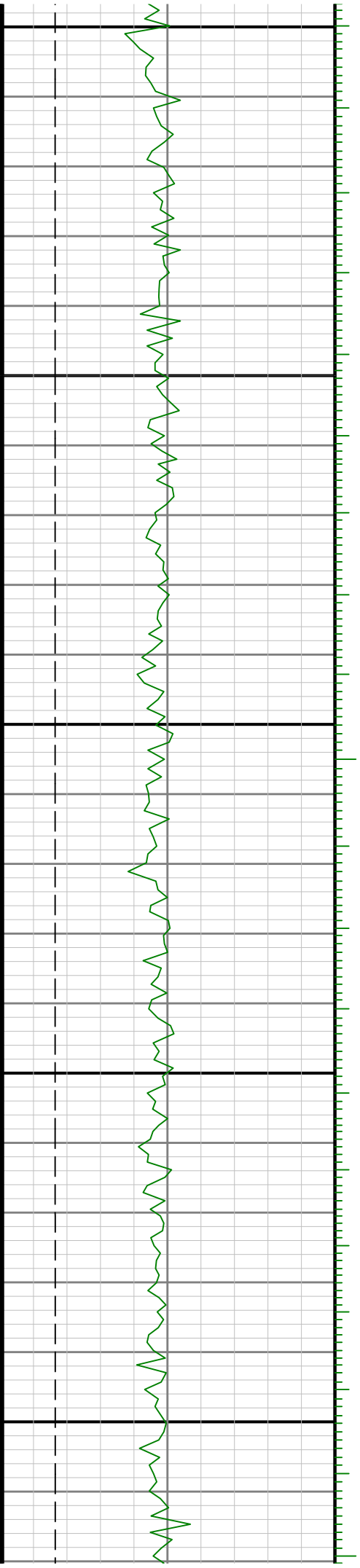
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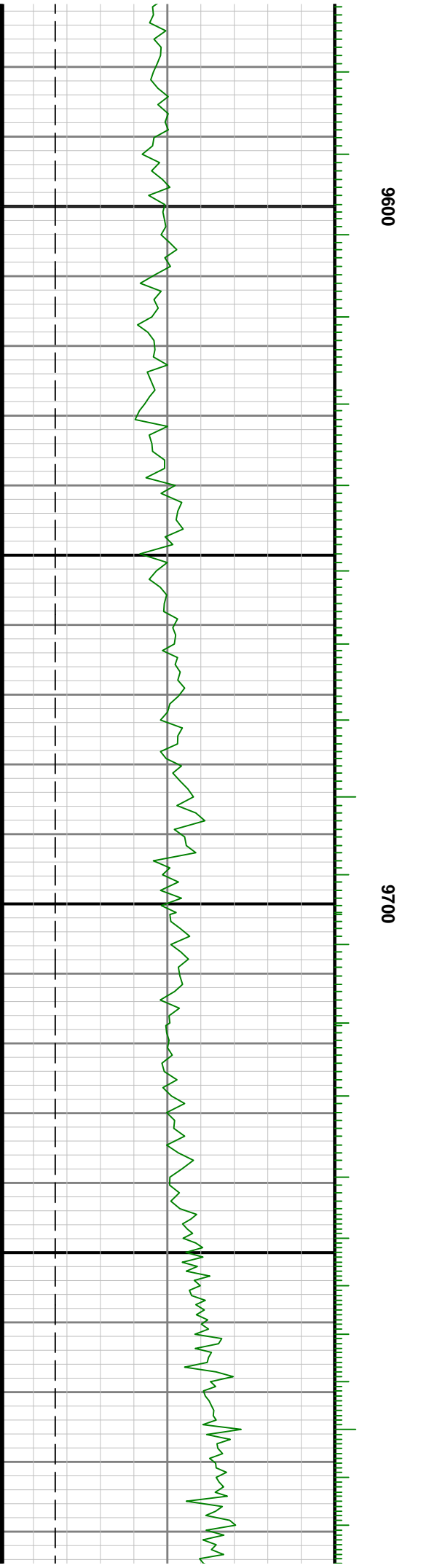
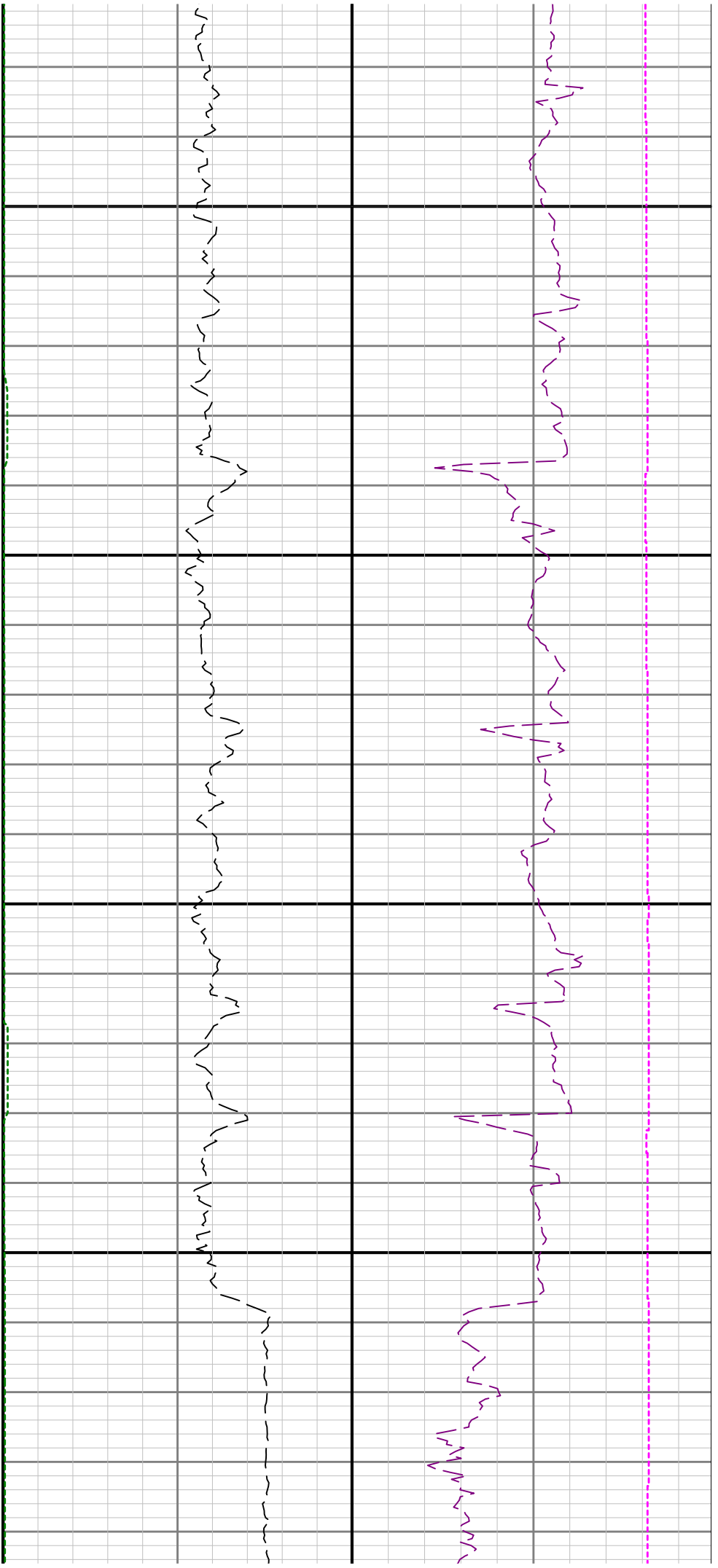


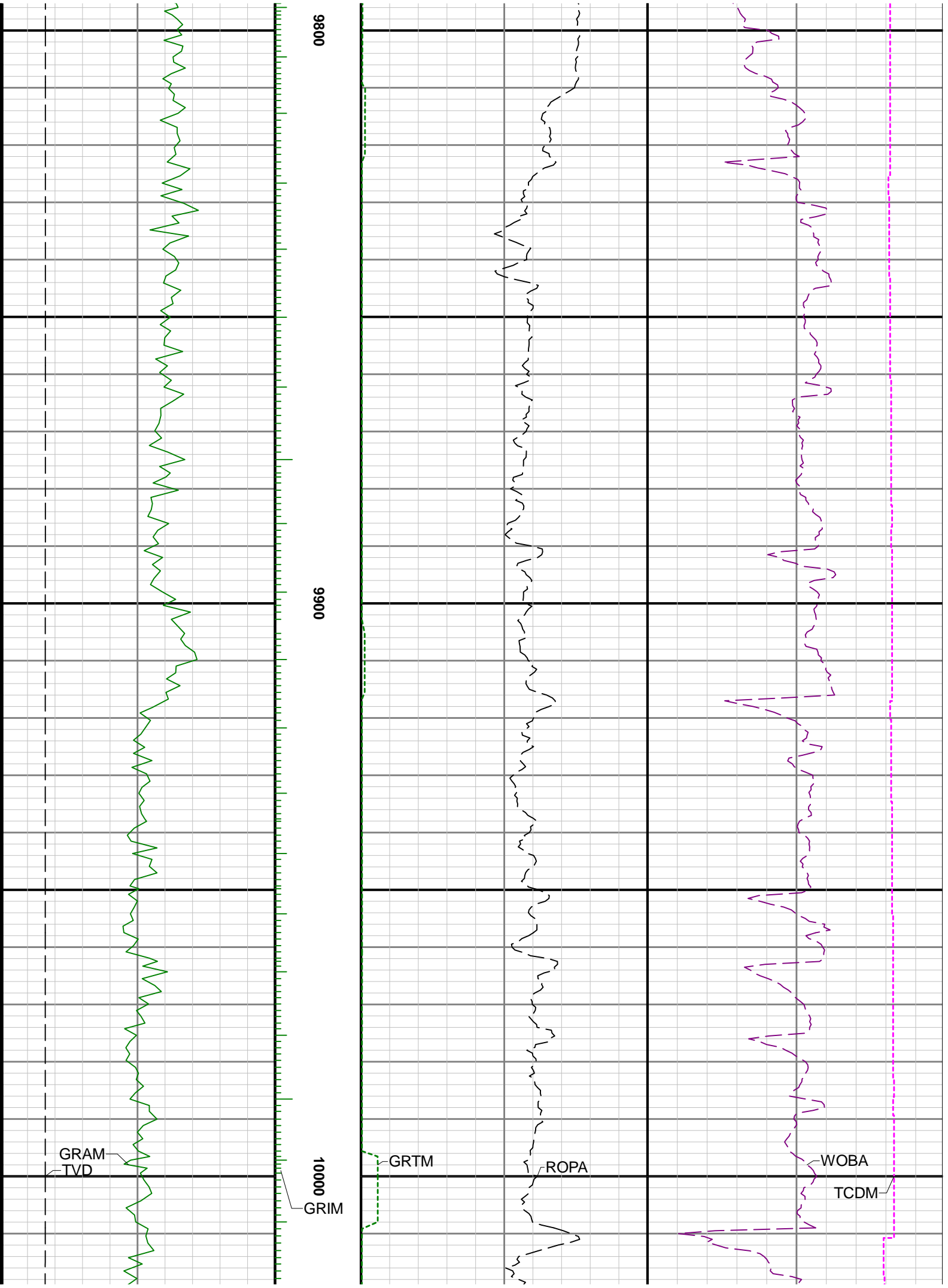


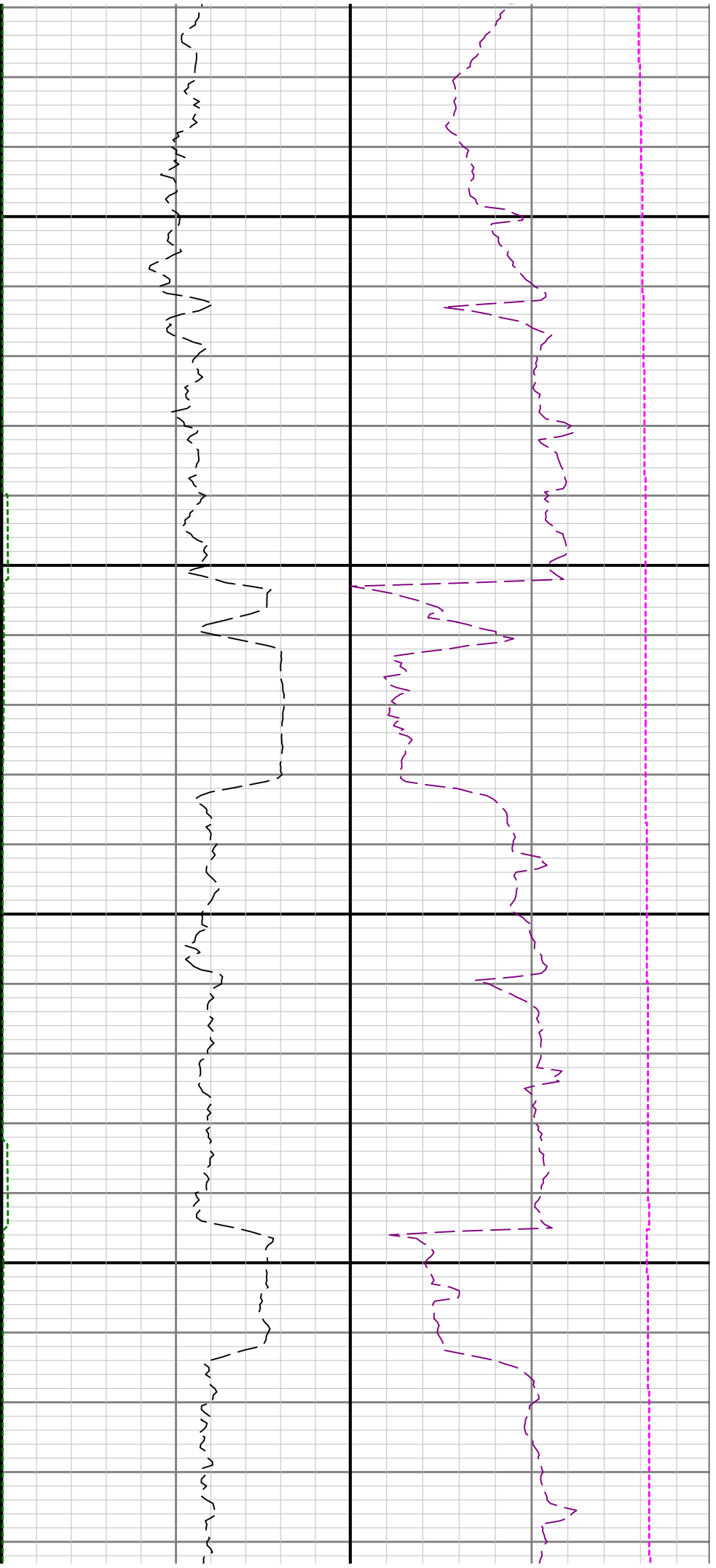
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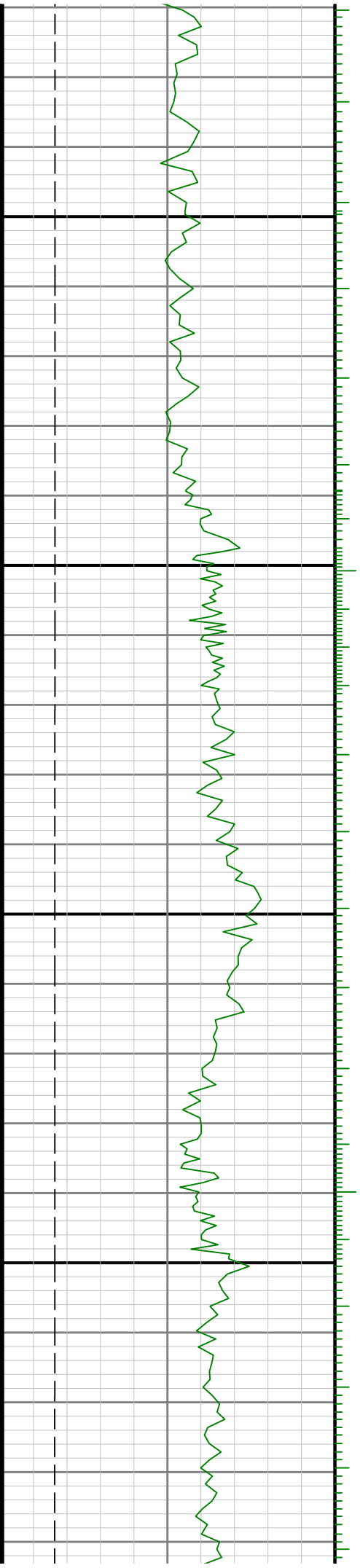


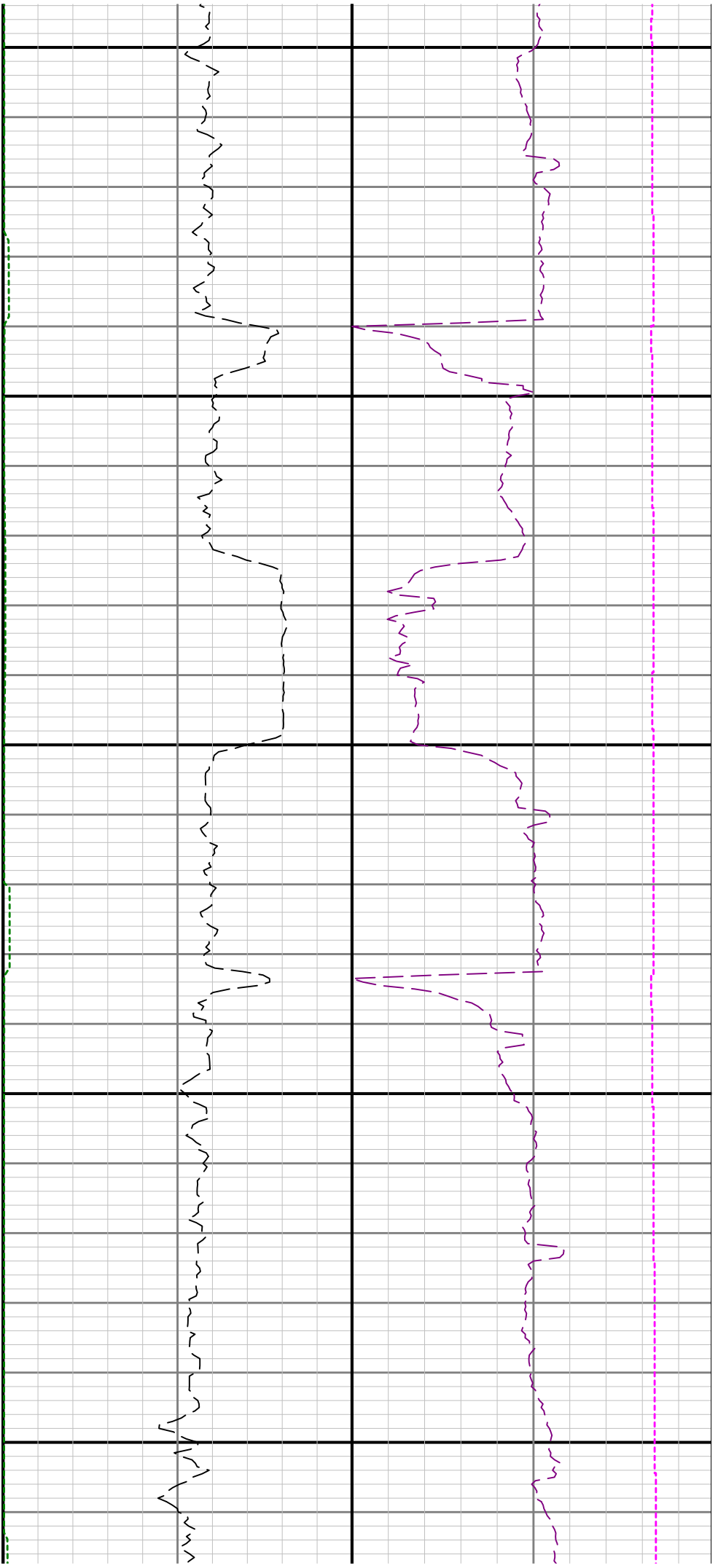




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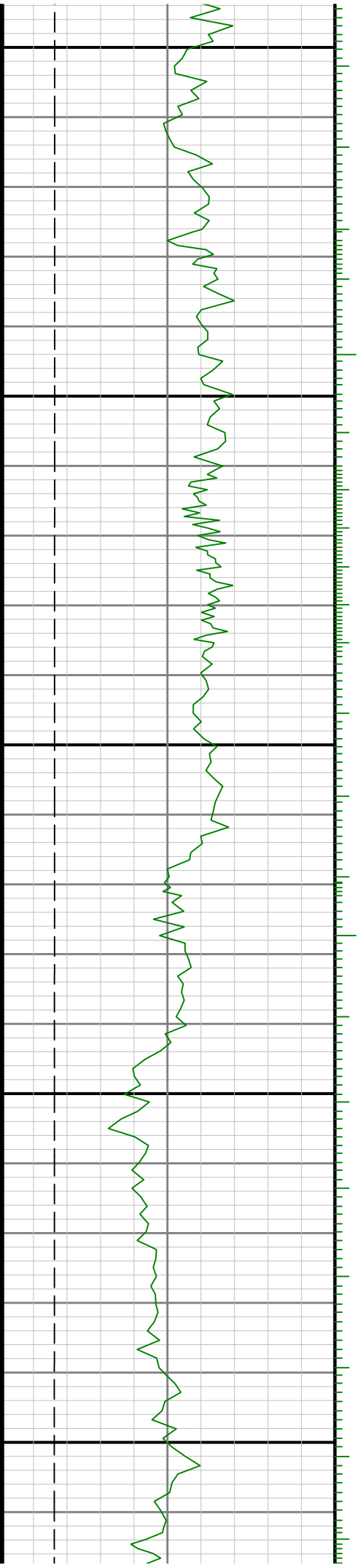
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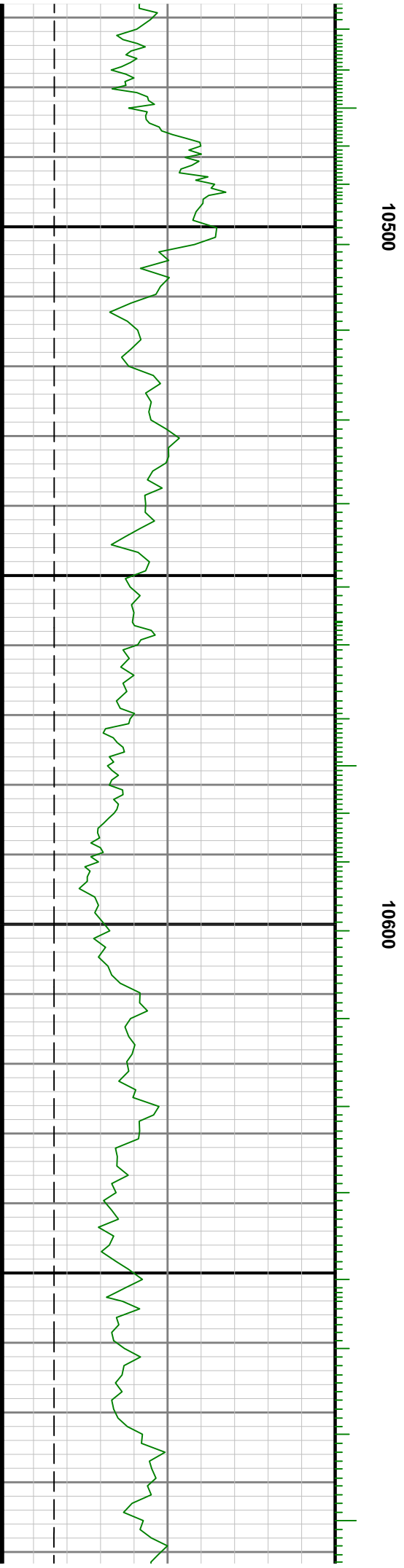
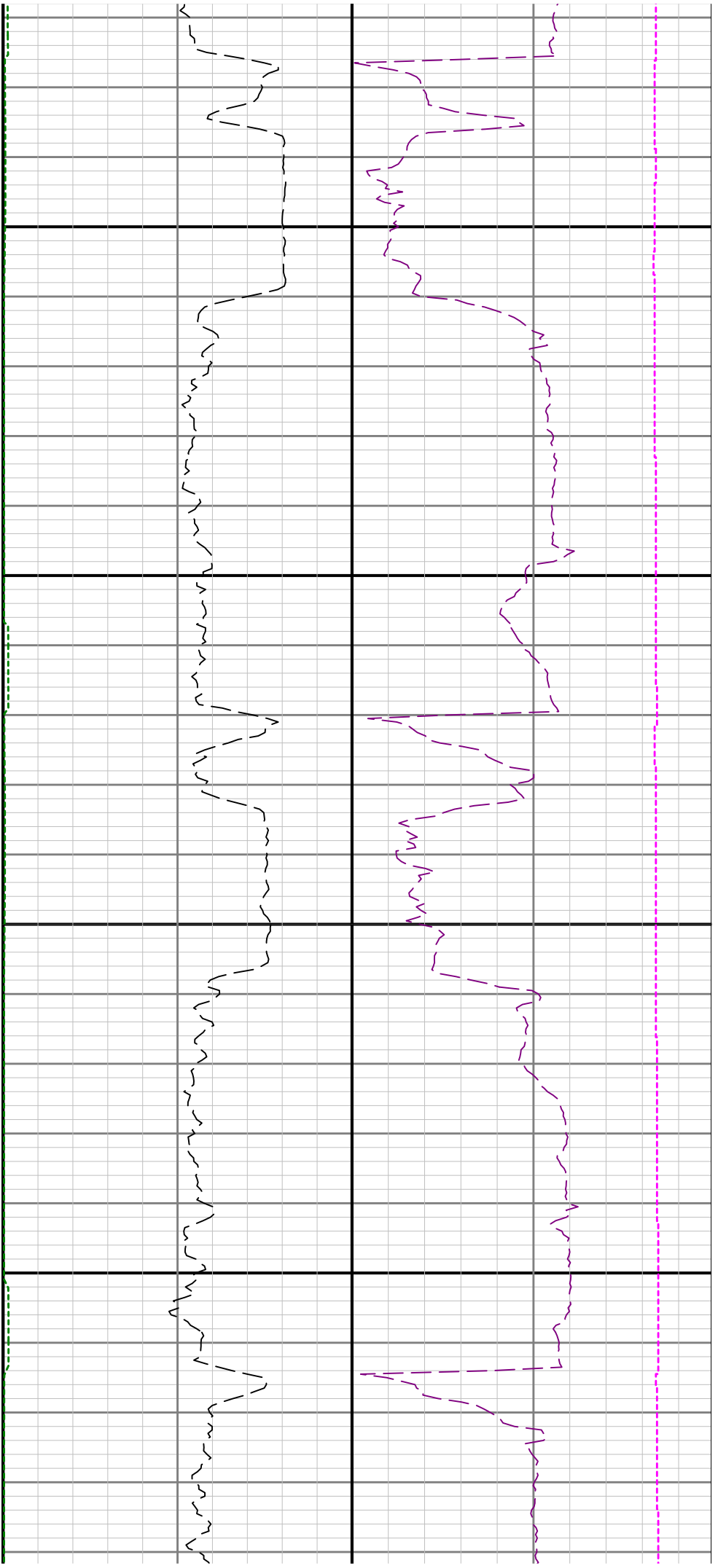


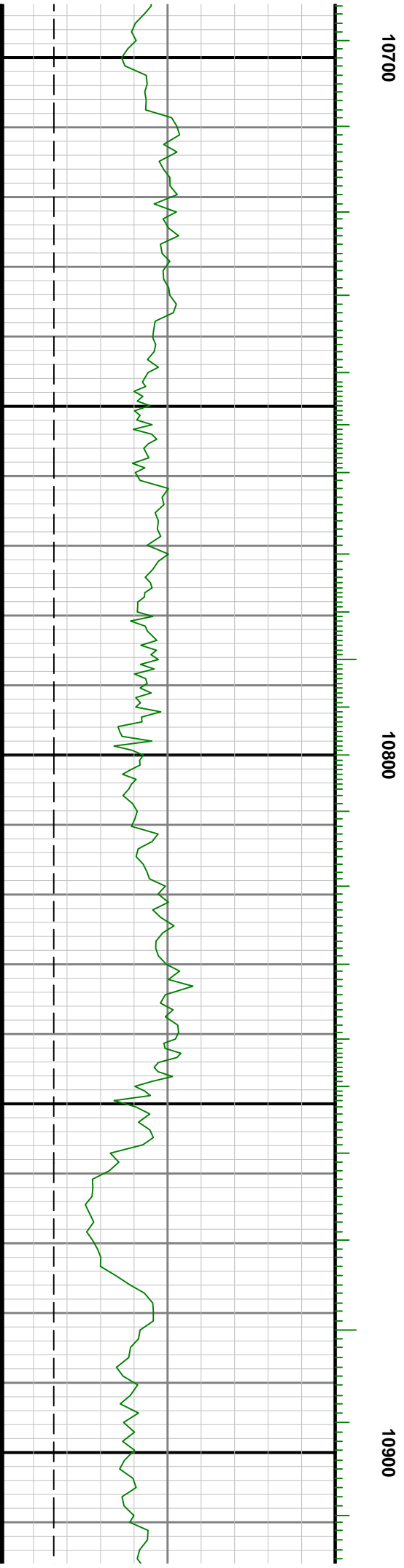
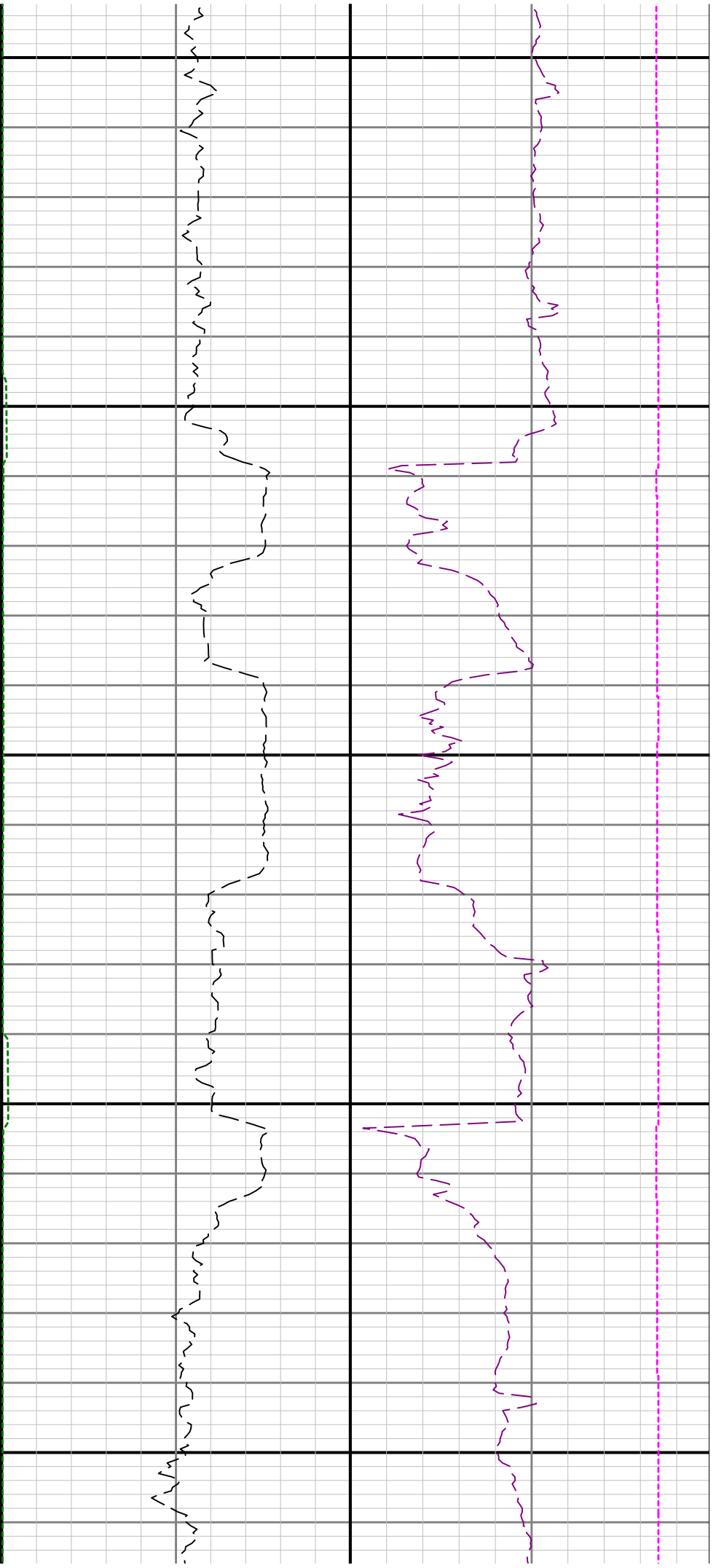


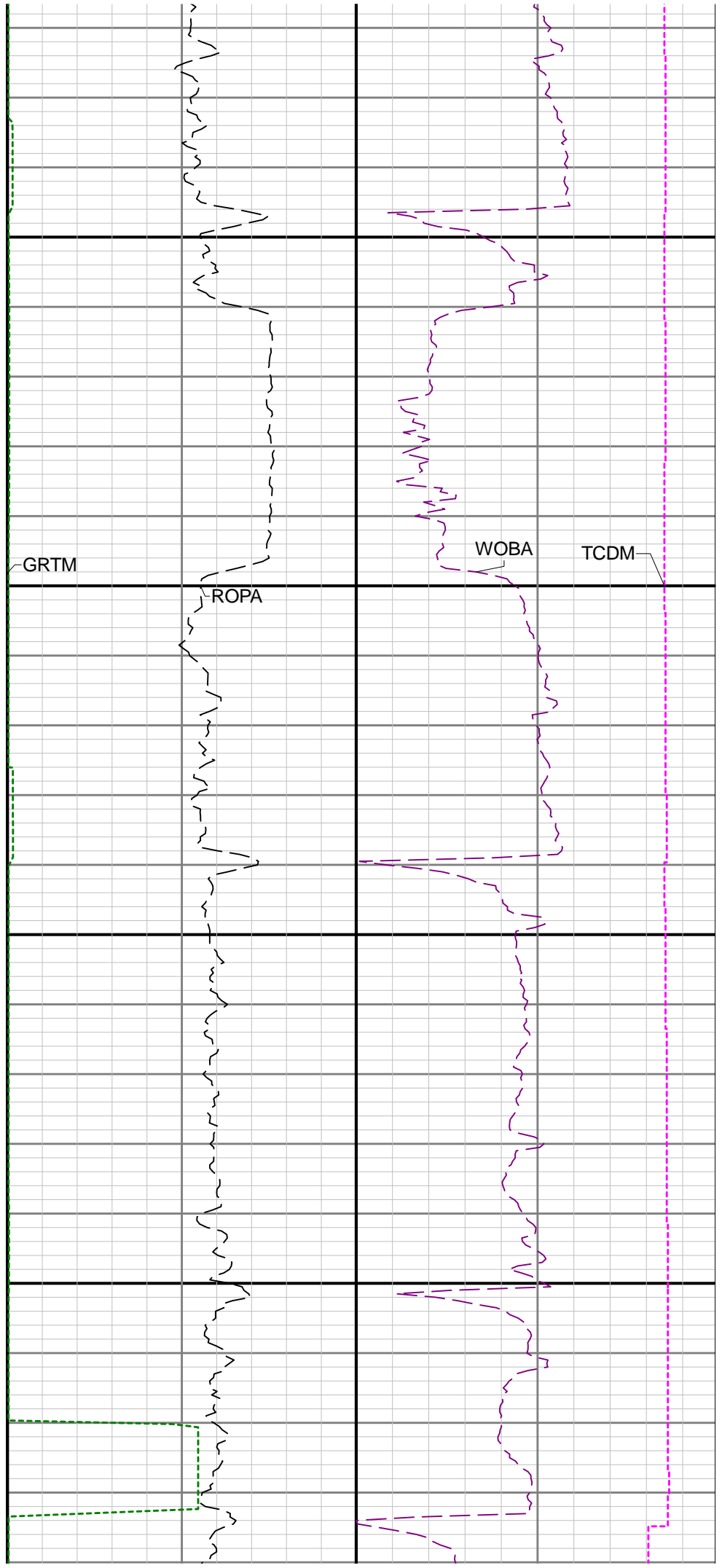
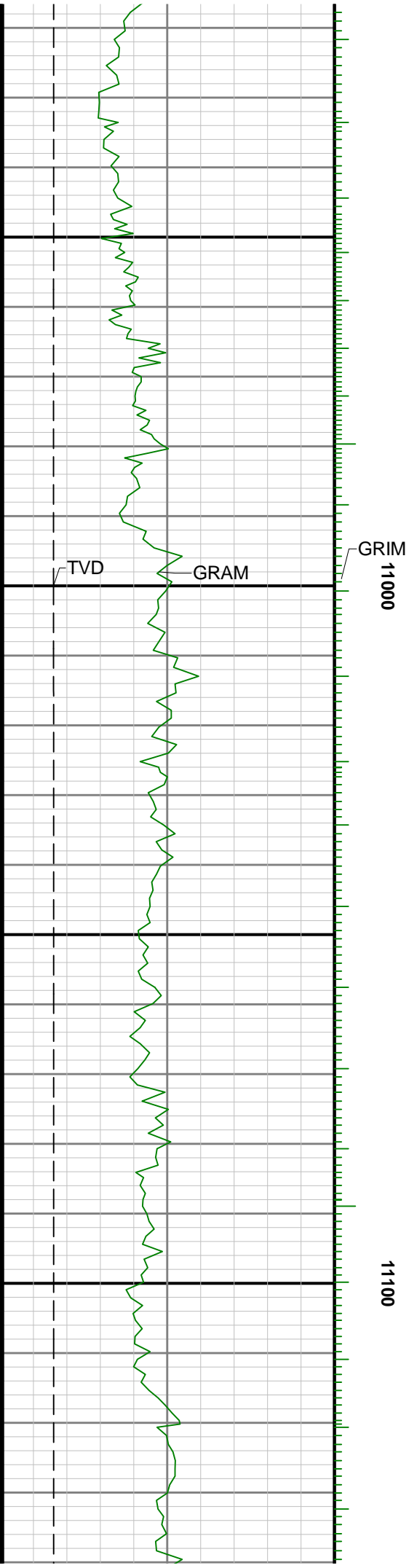
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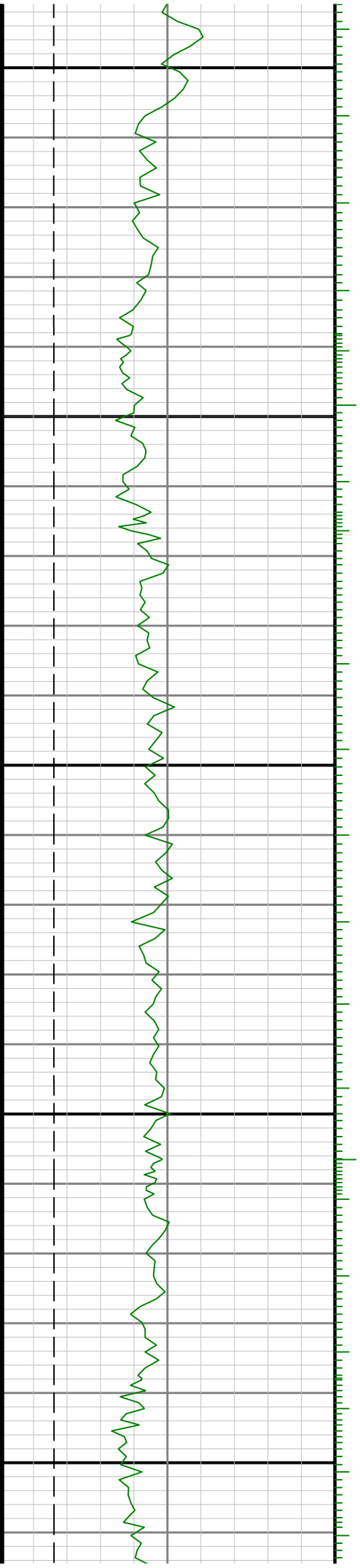


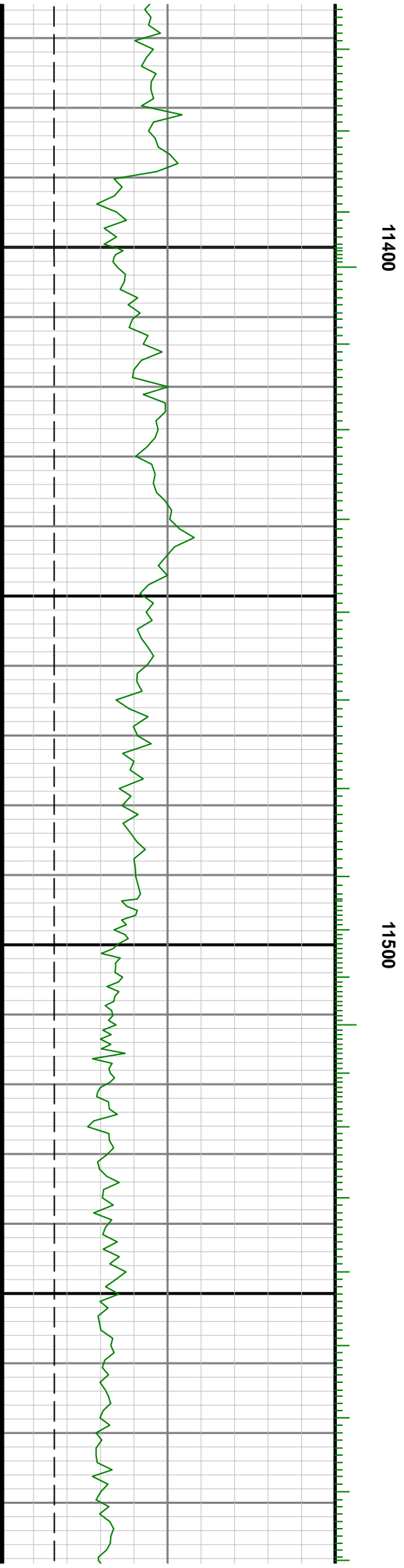
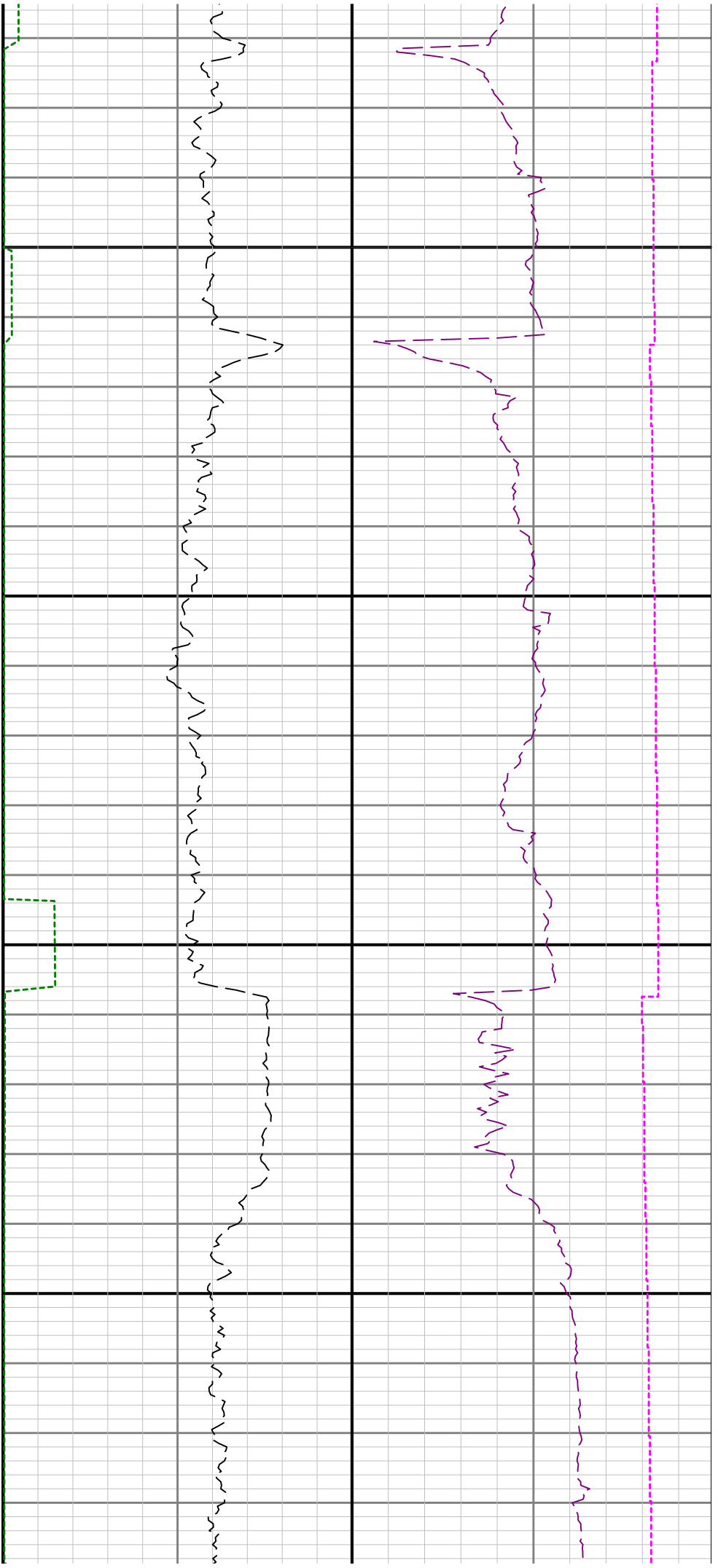


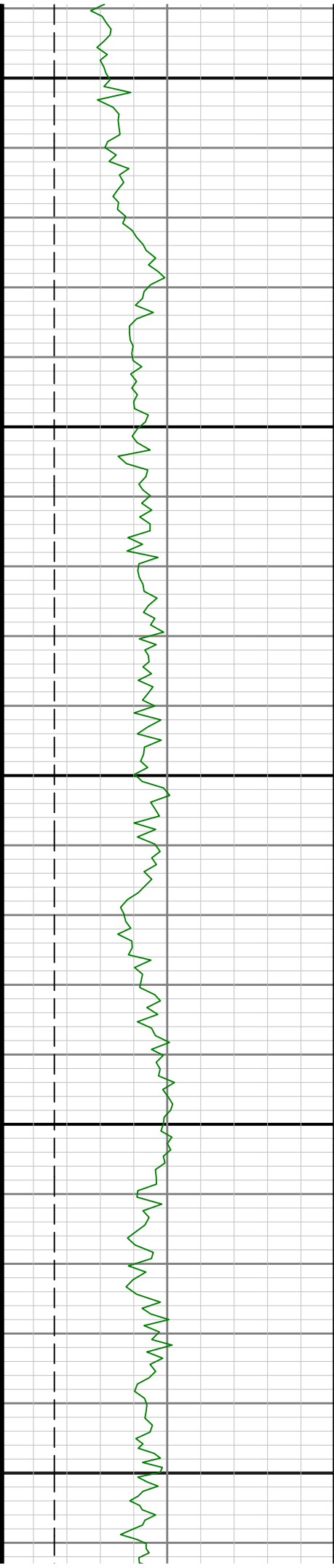
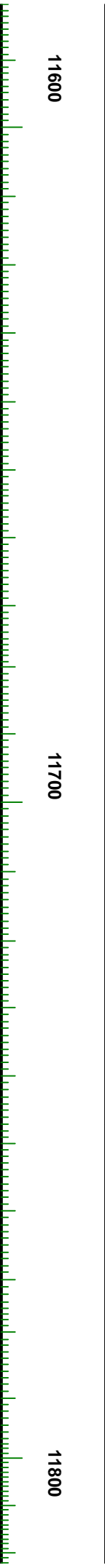
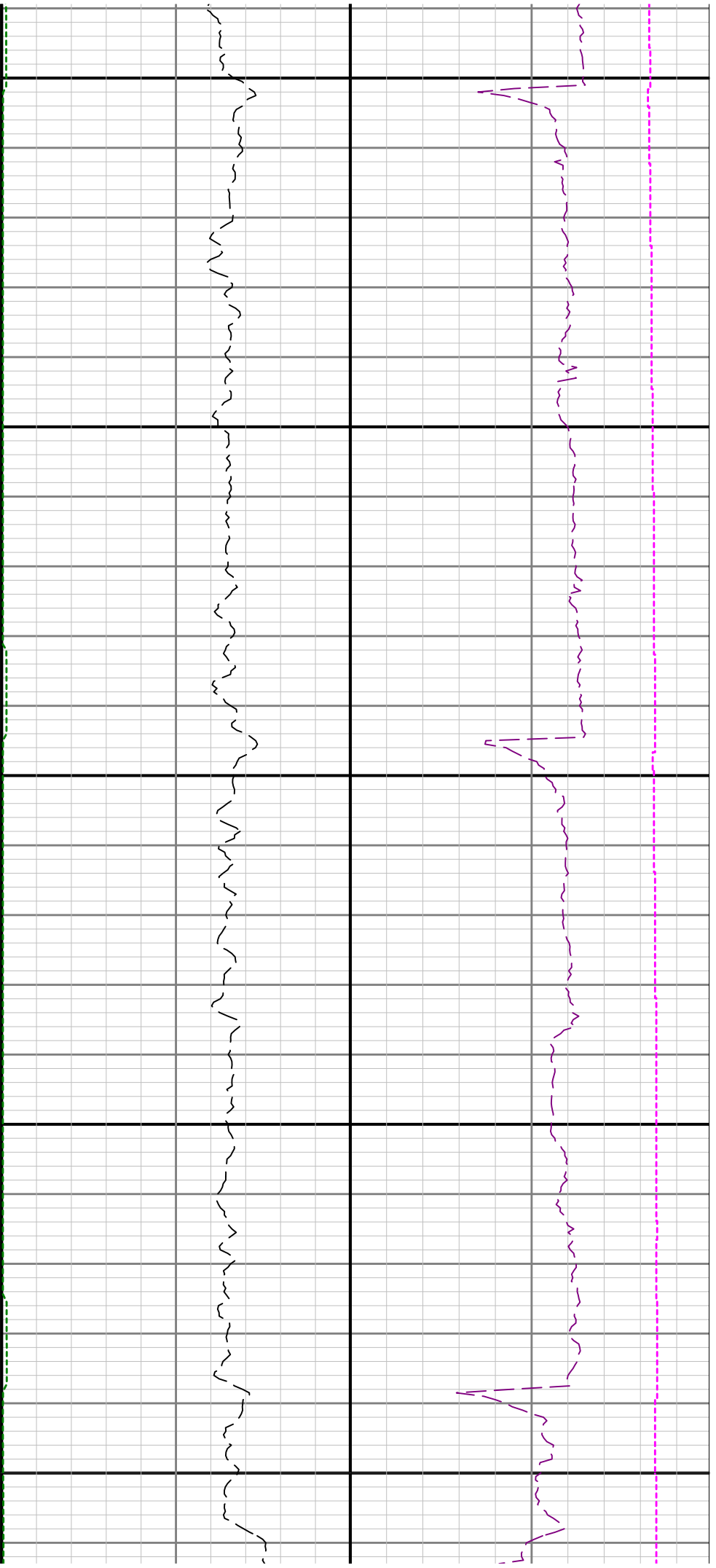


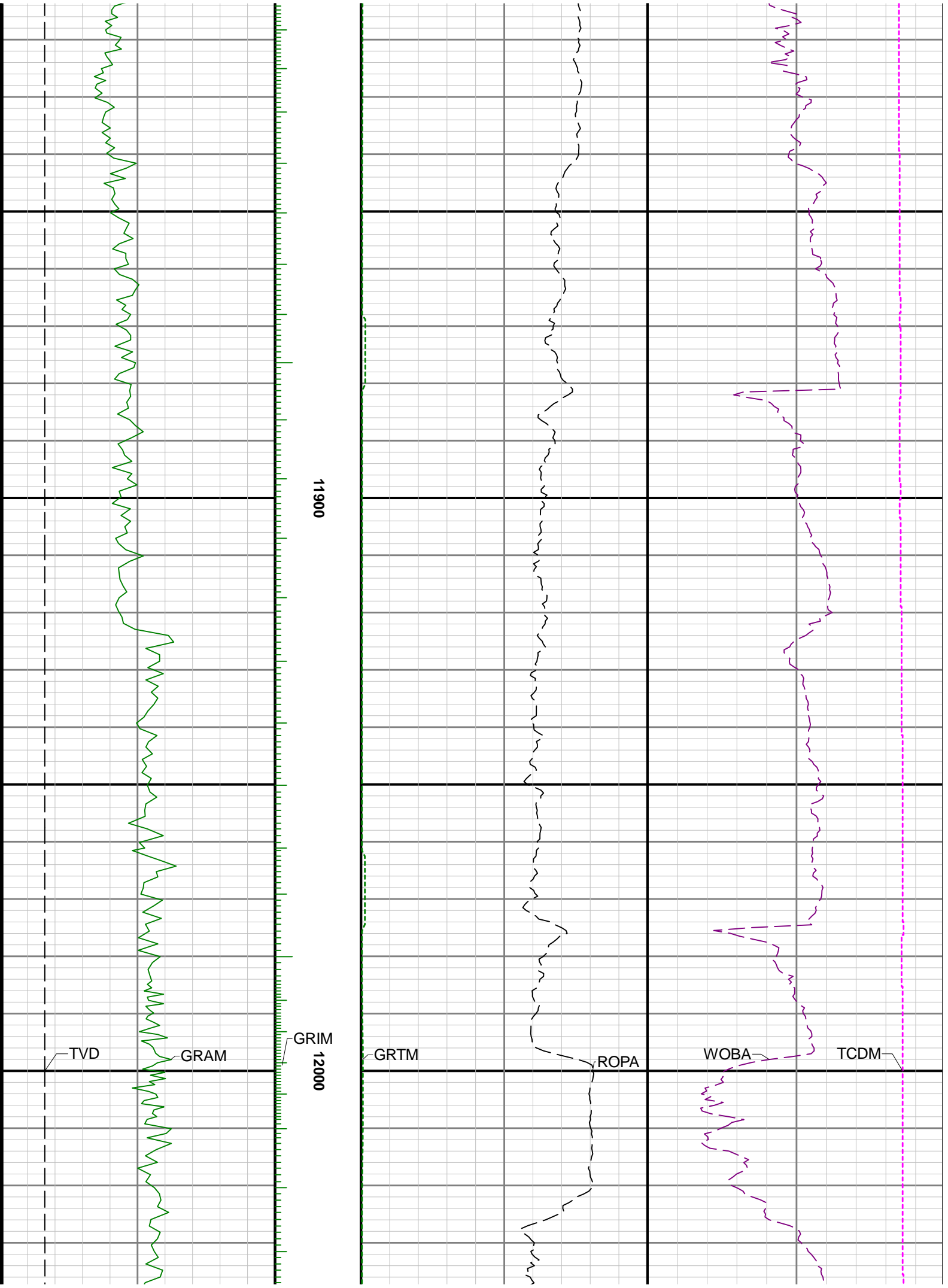
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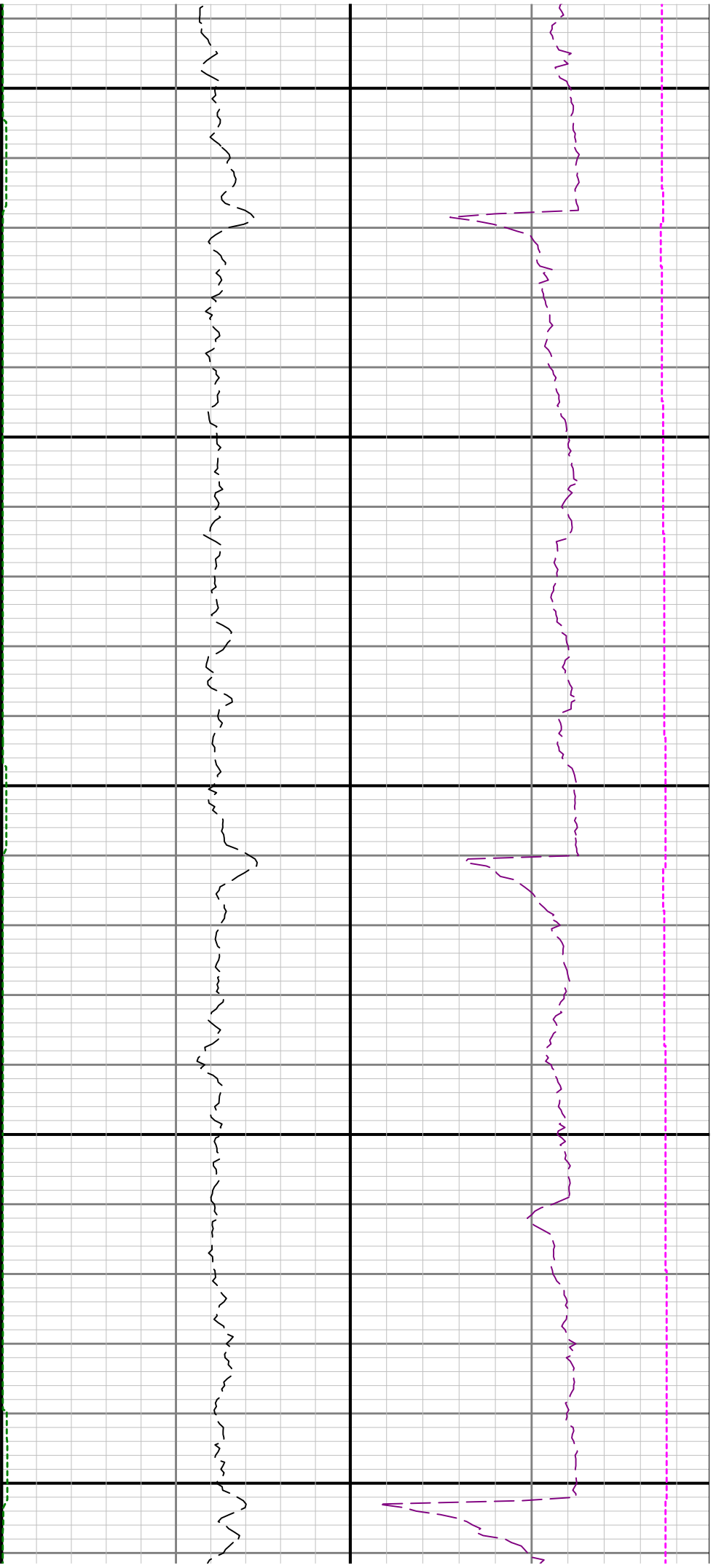
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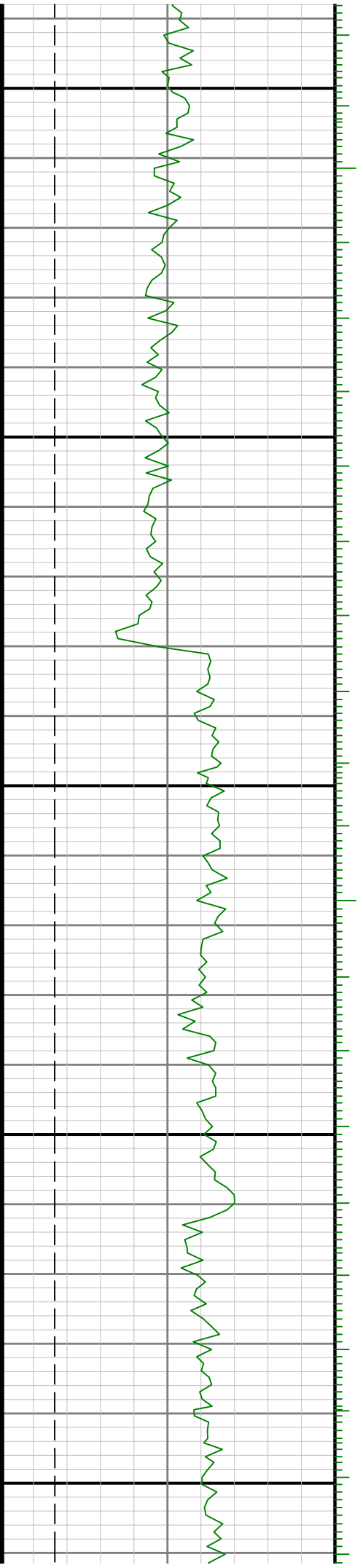


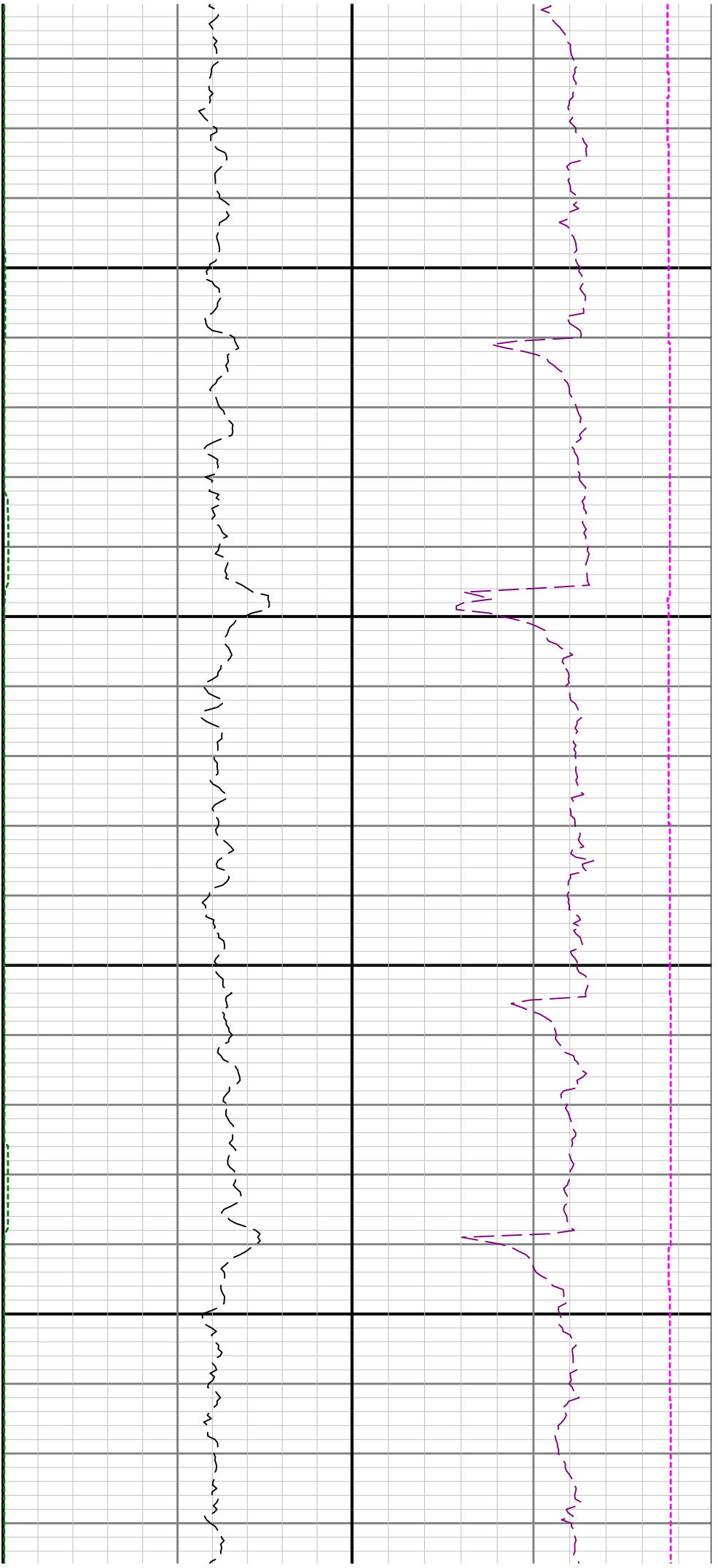




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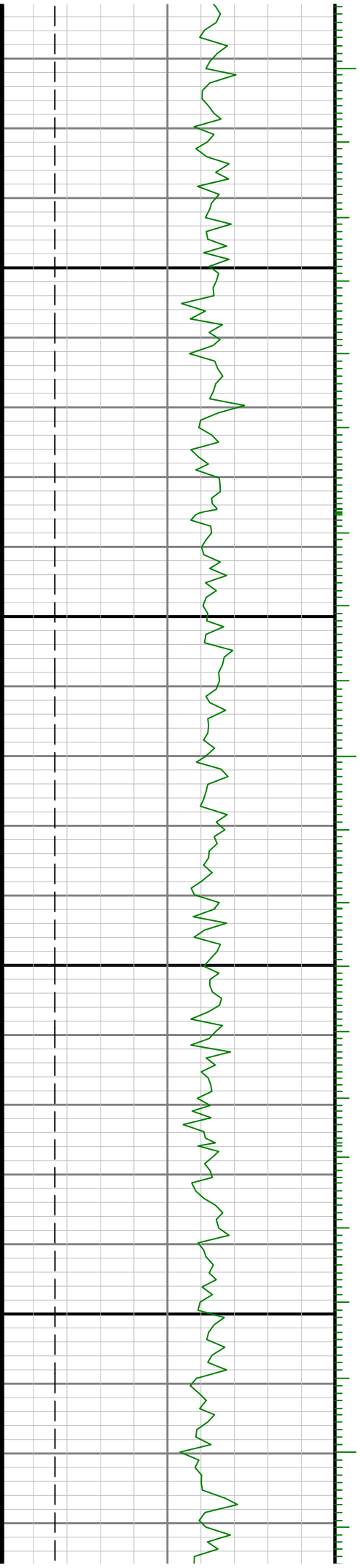
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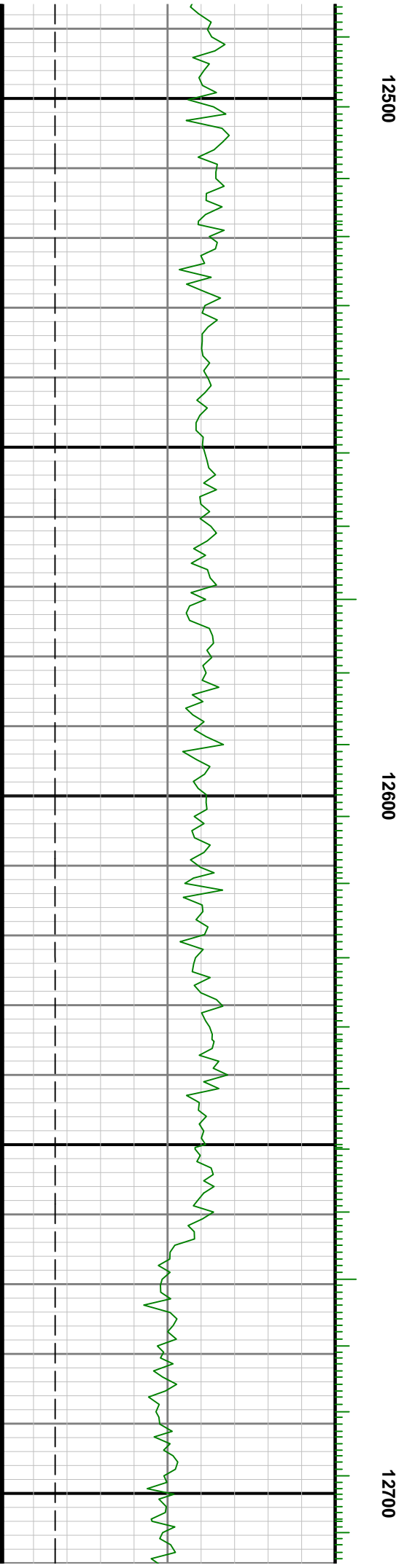
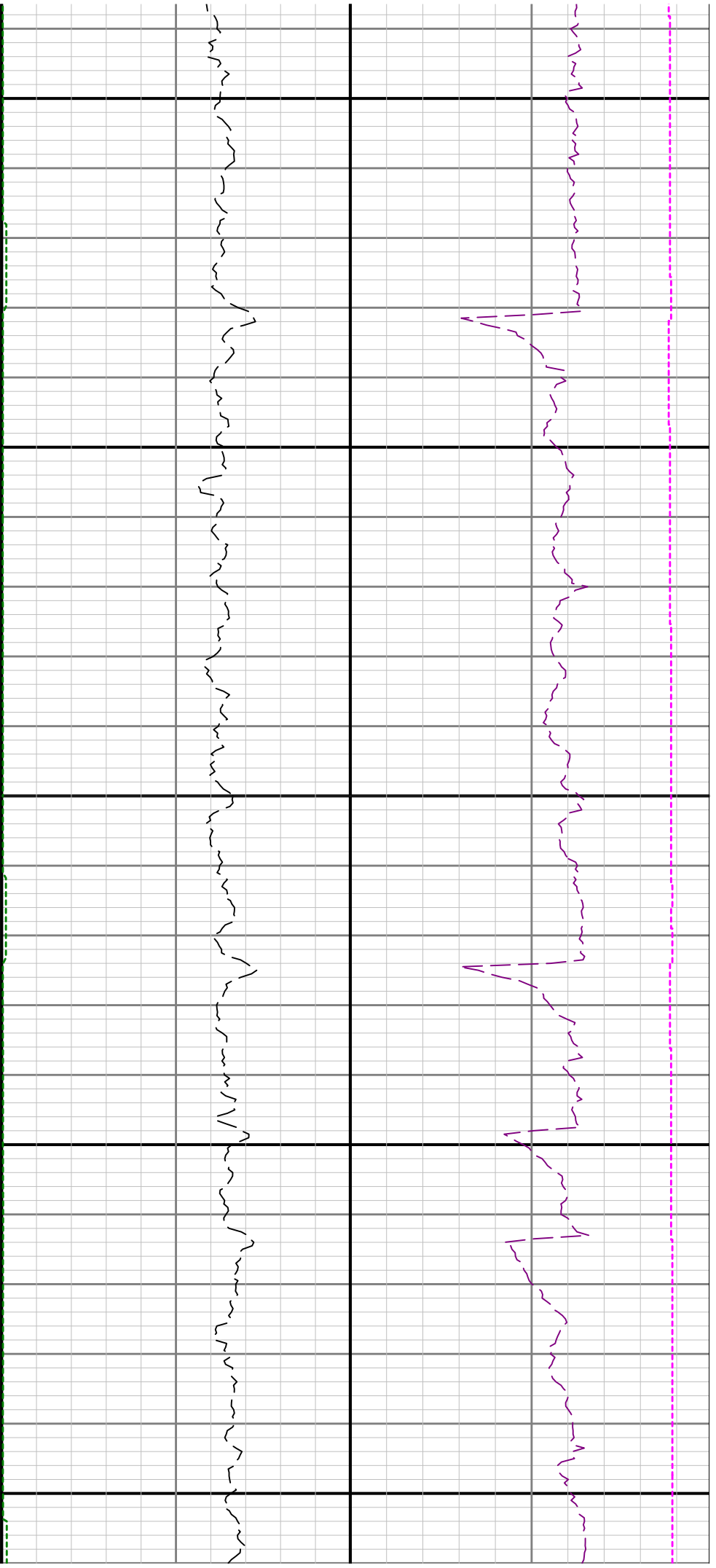


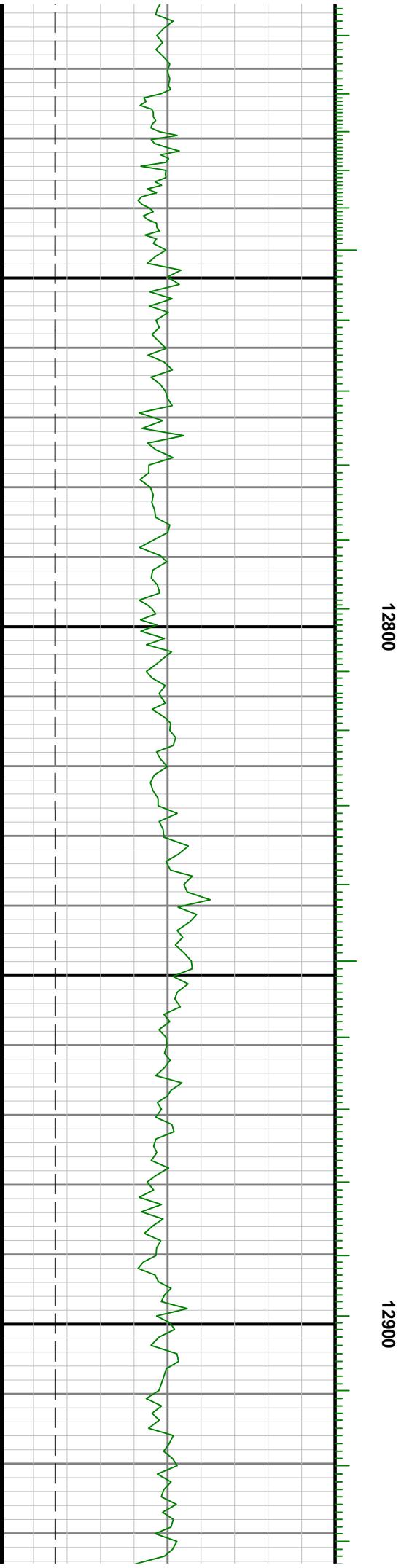
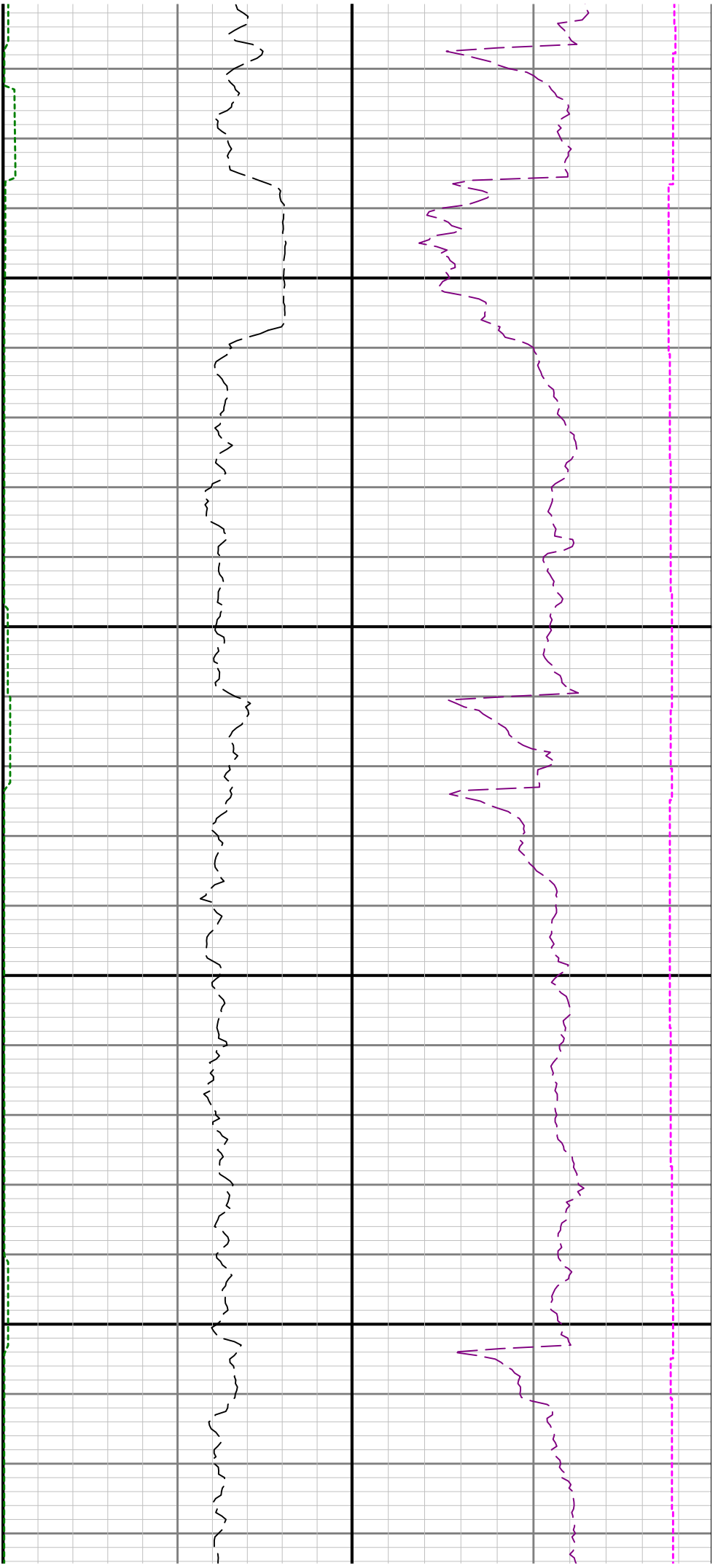


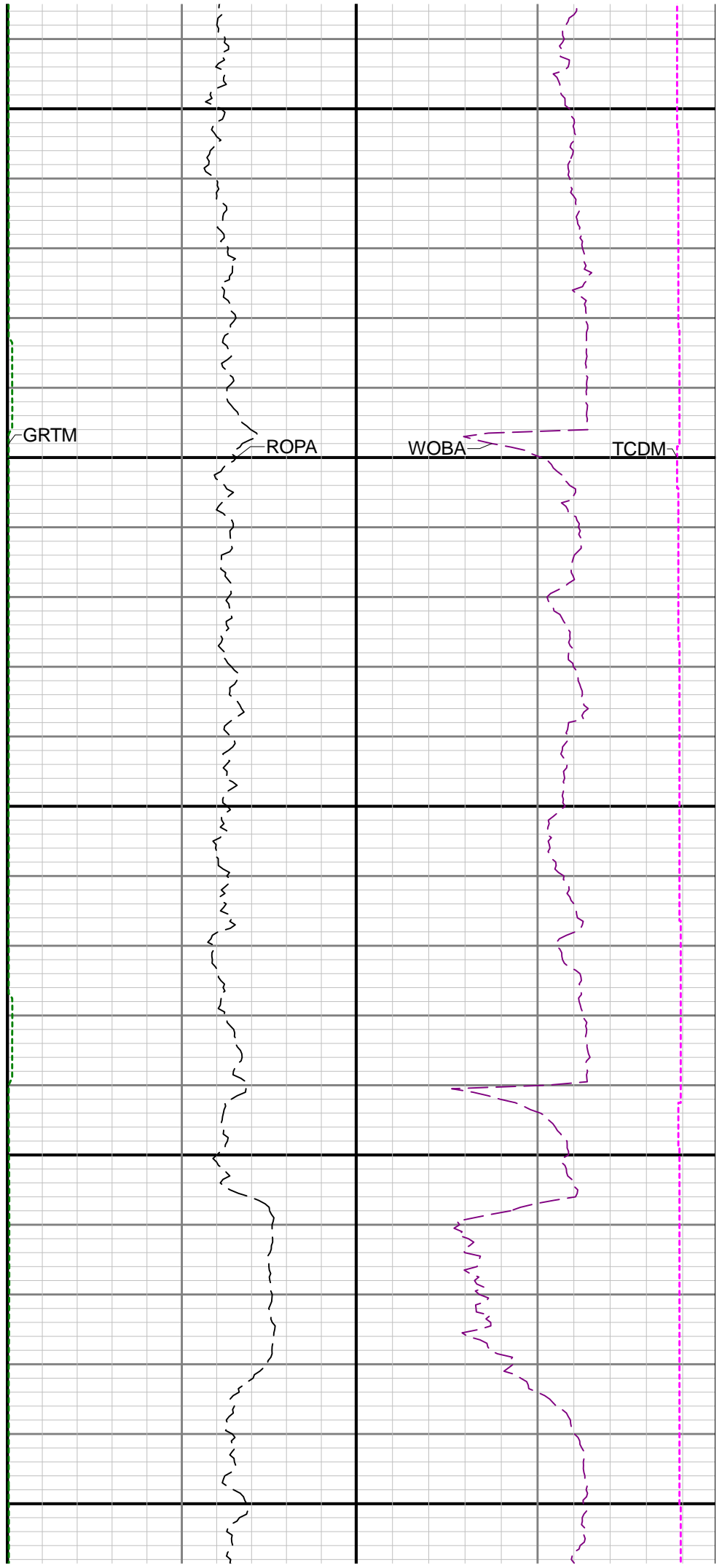
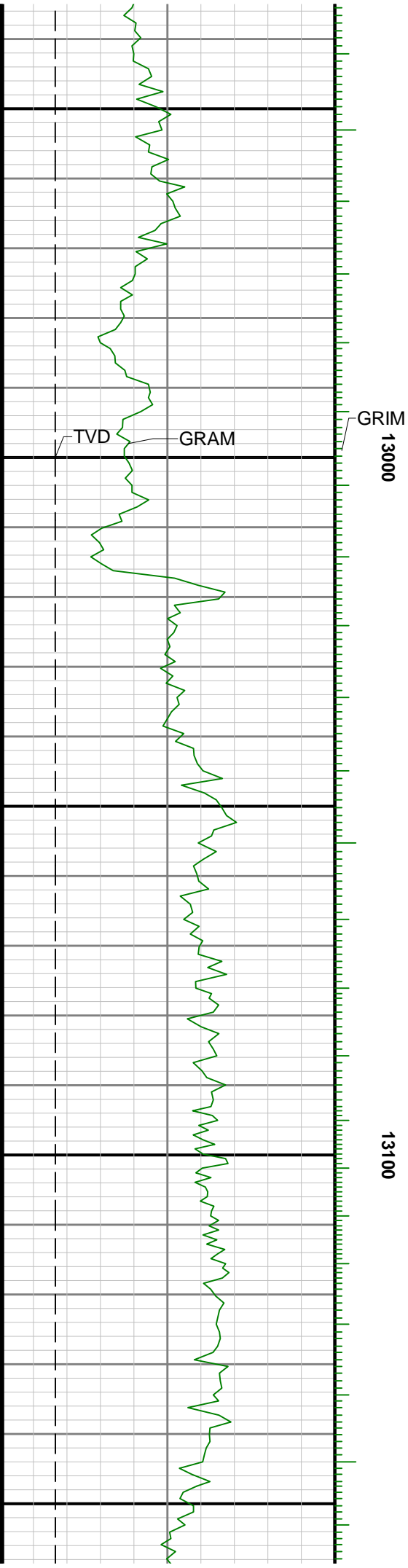
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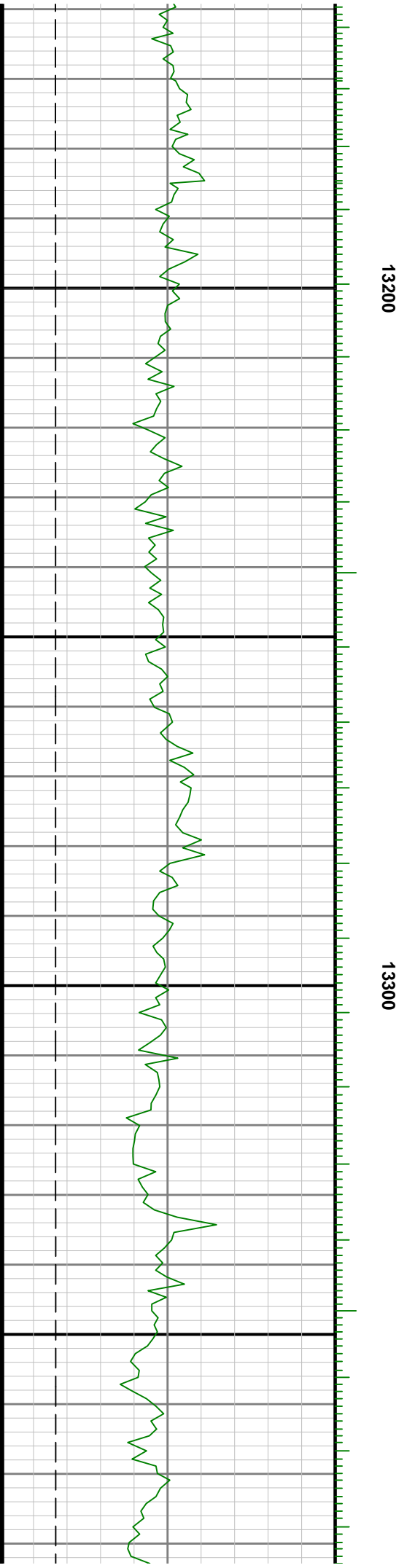
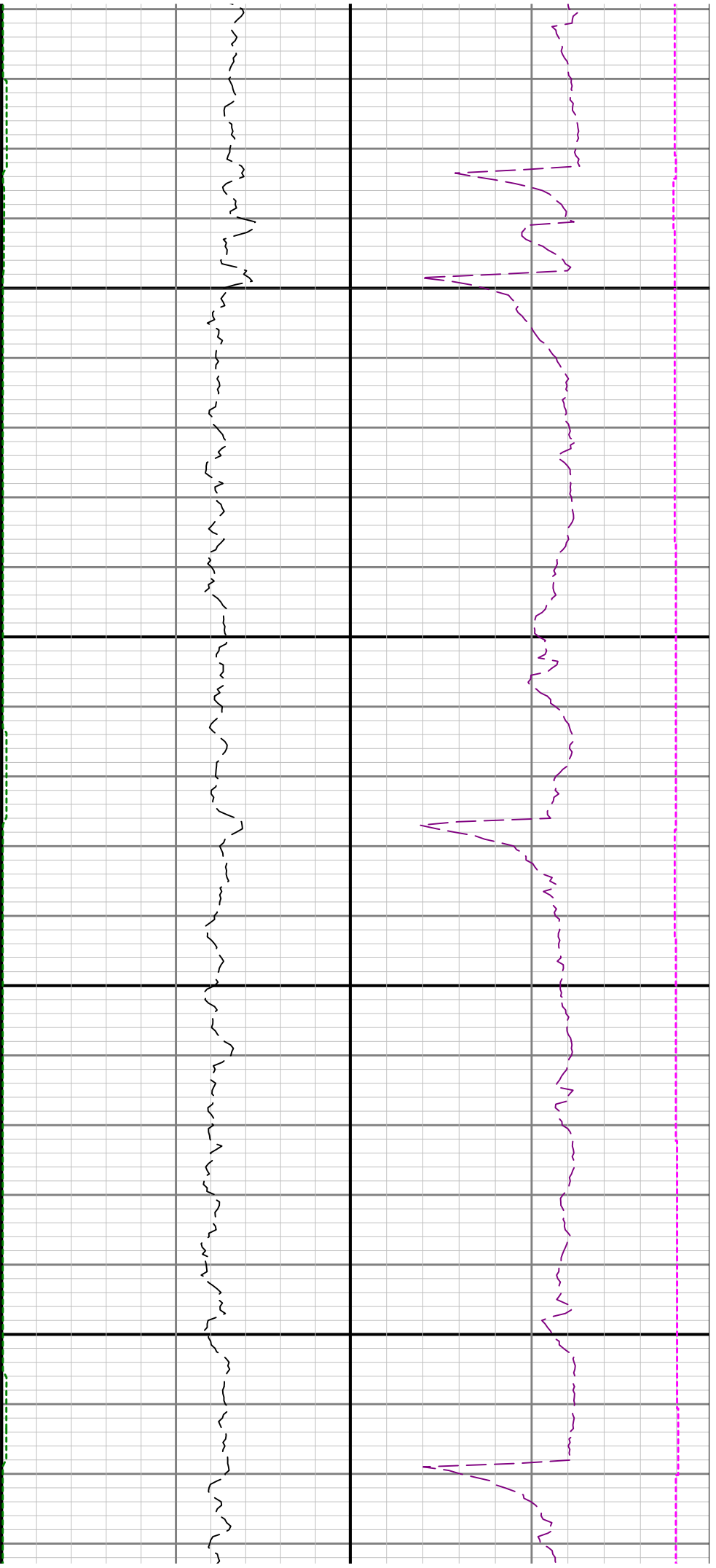
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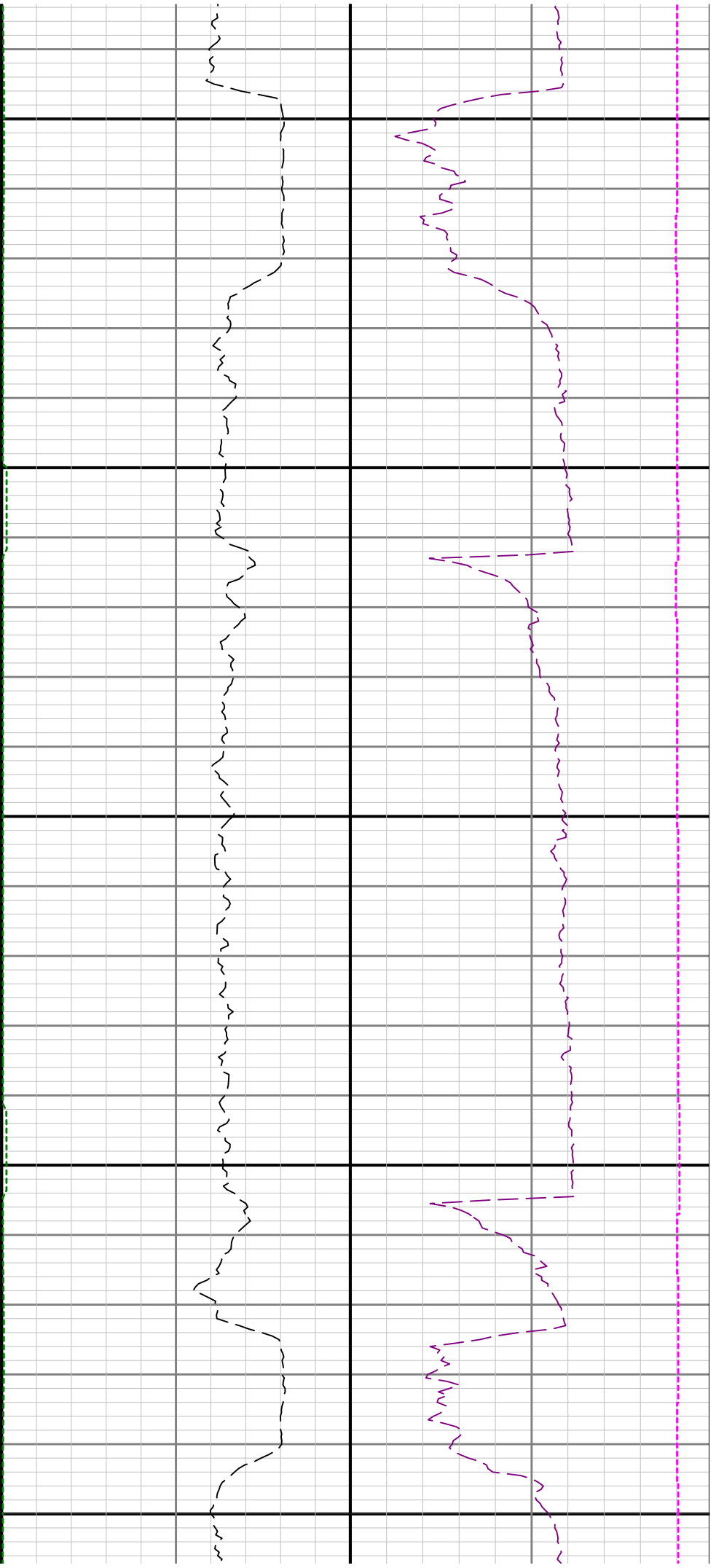








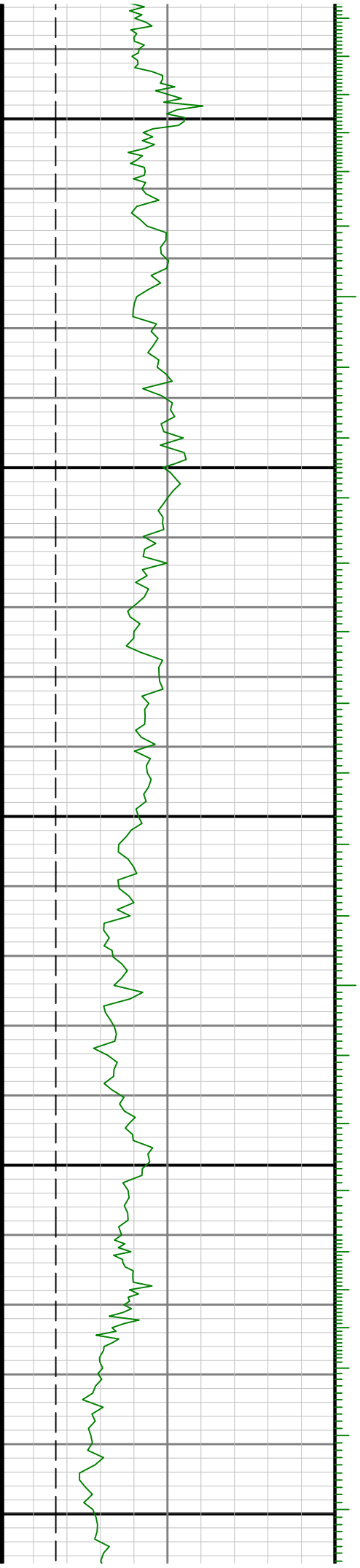


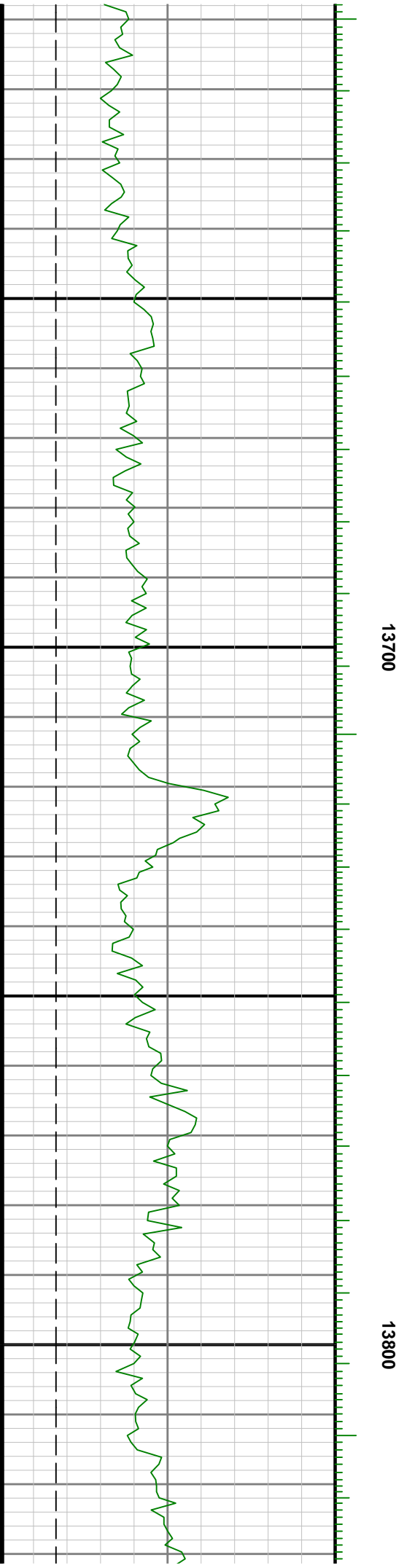
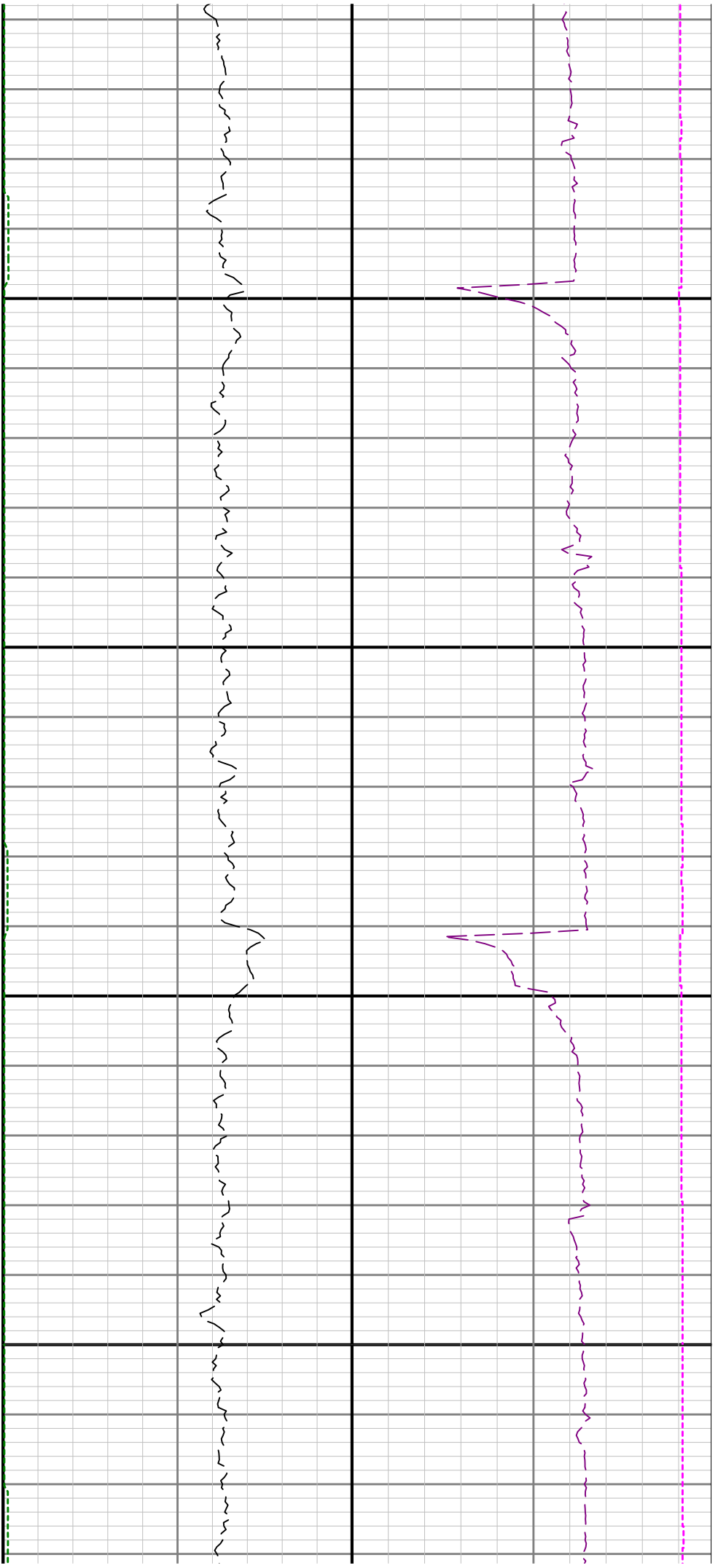


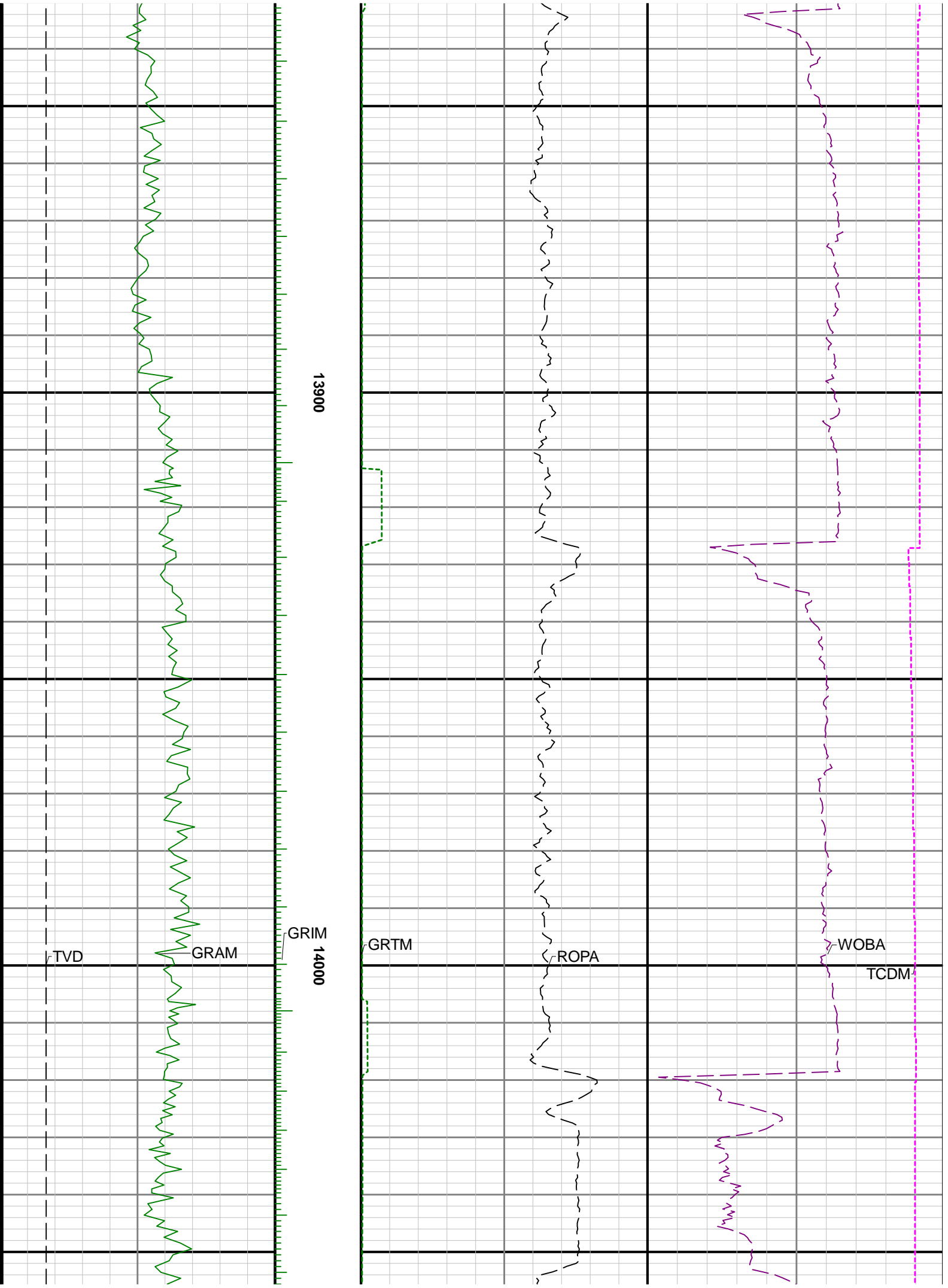
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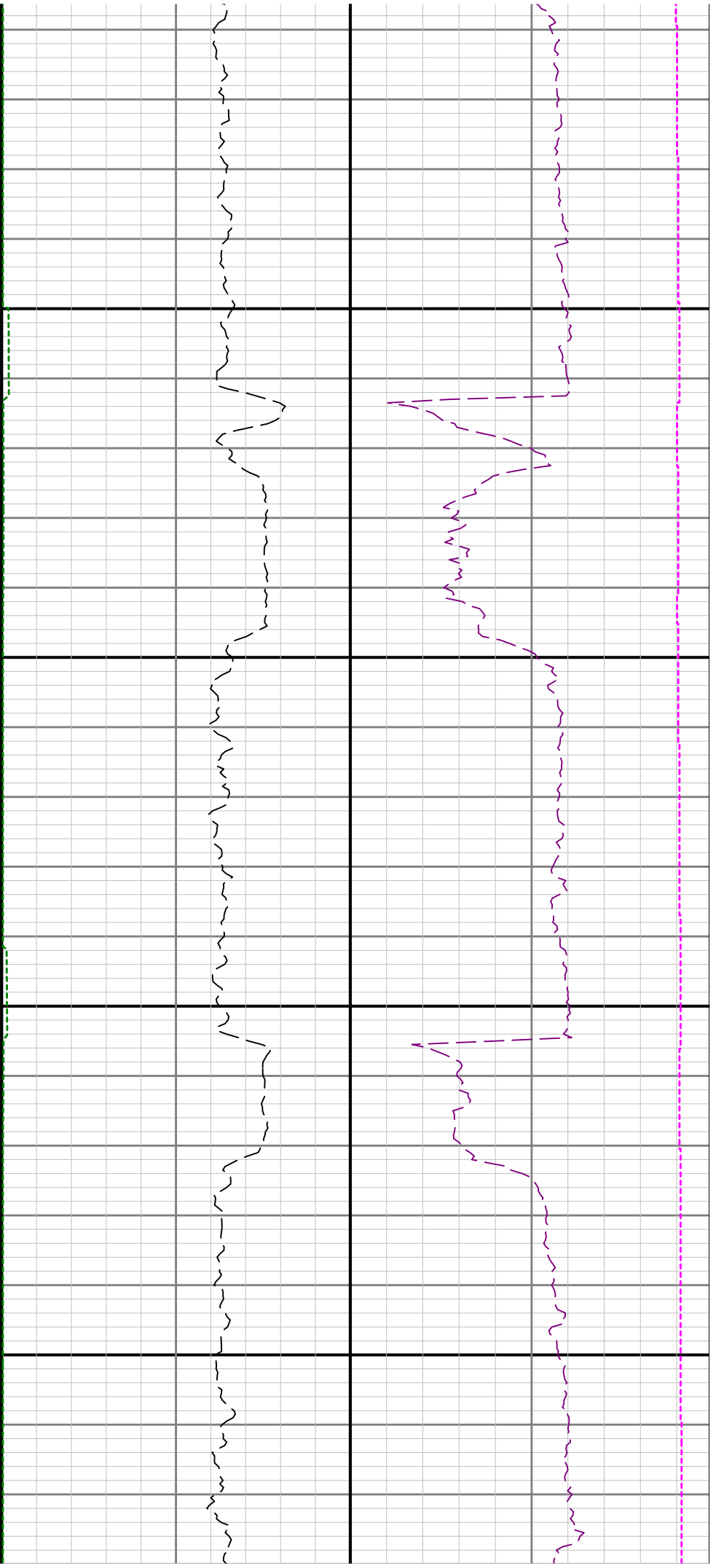
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13600



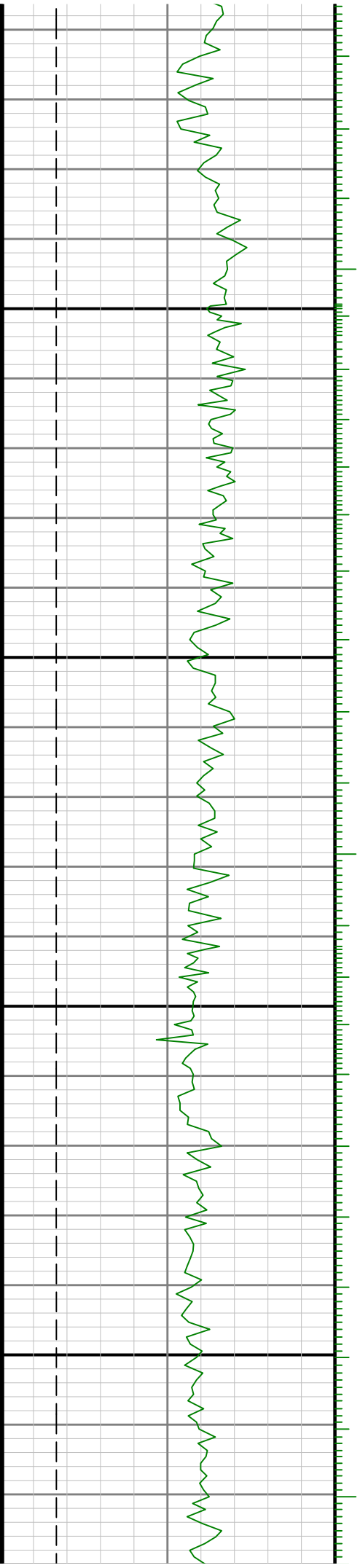


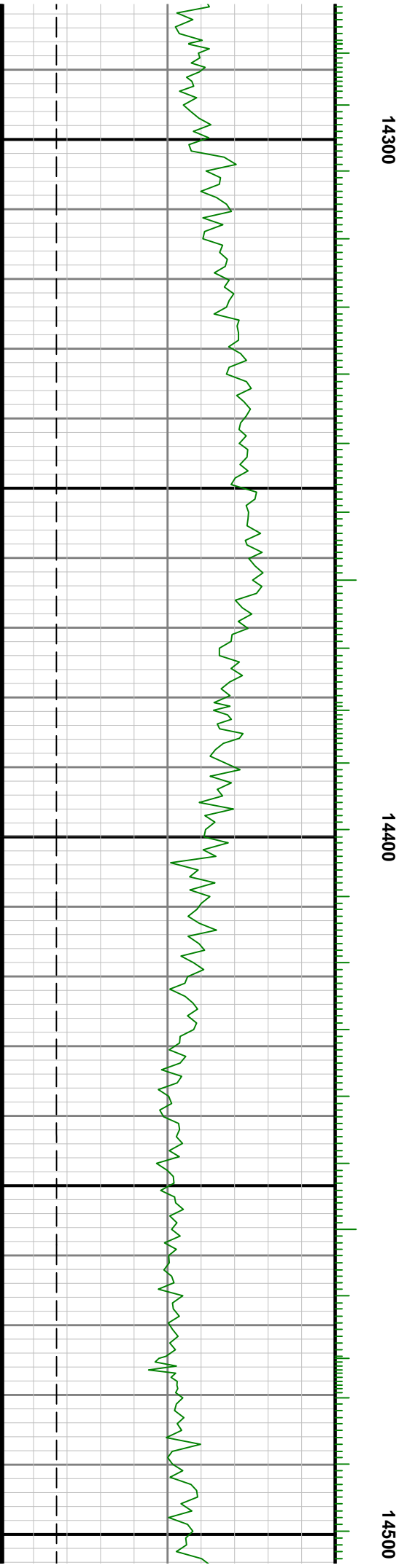
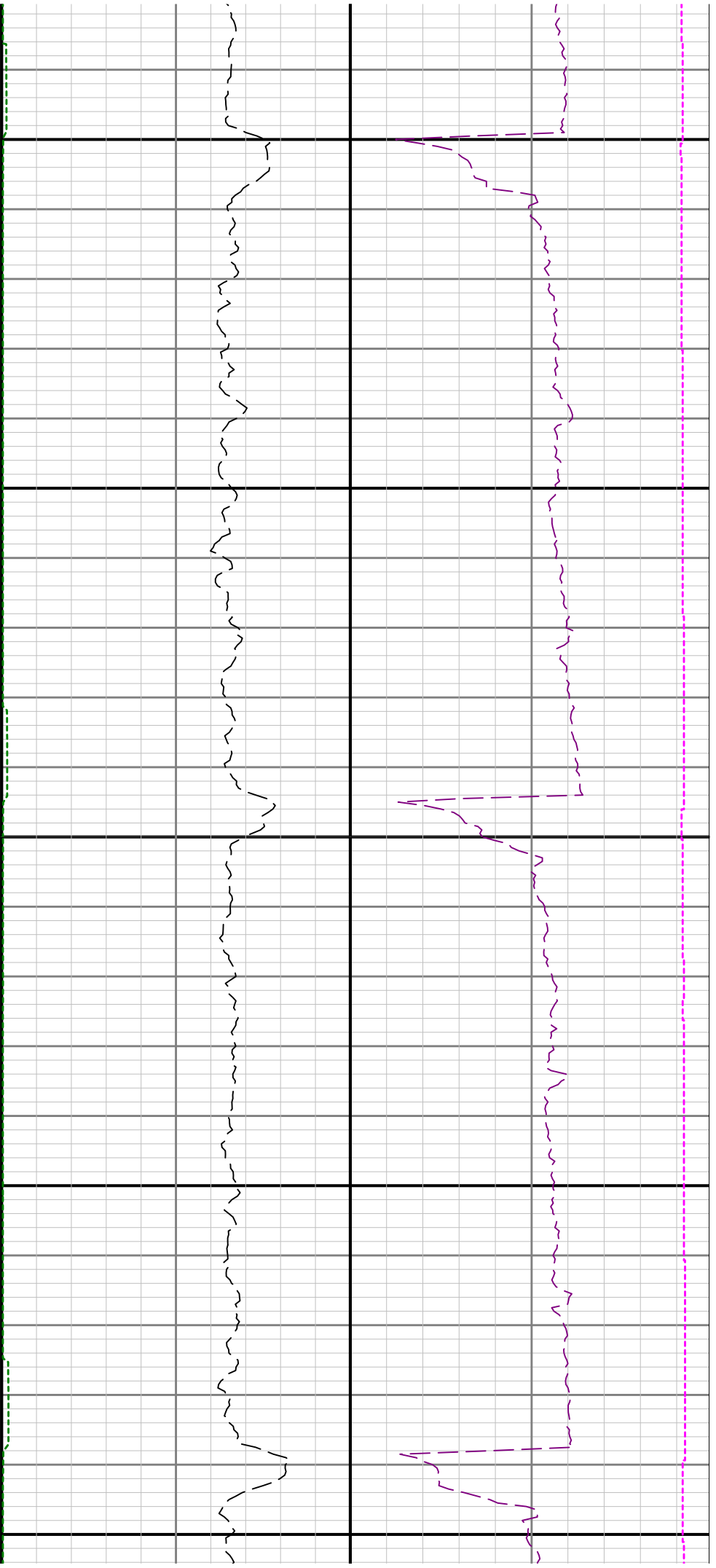


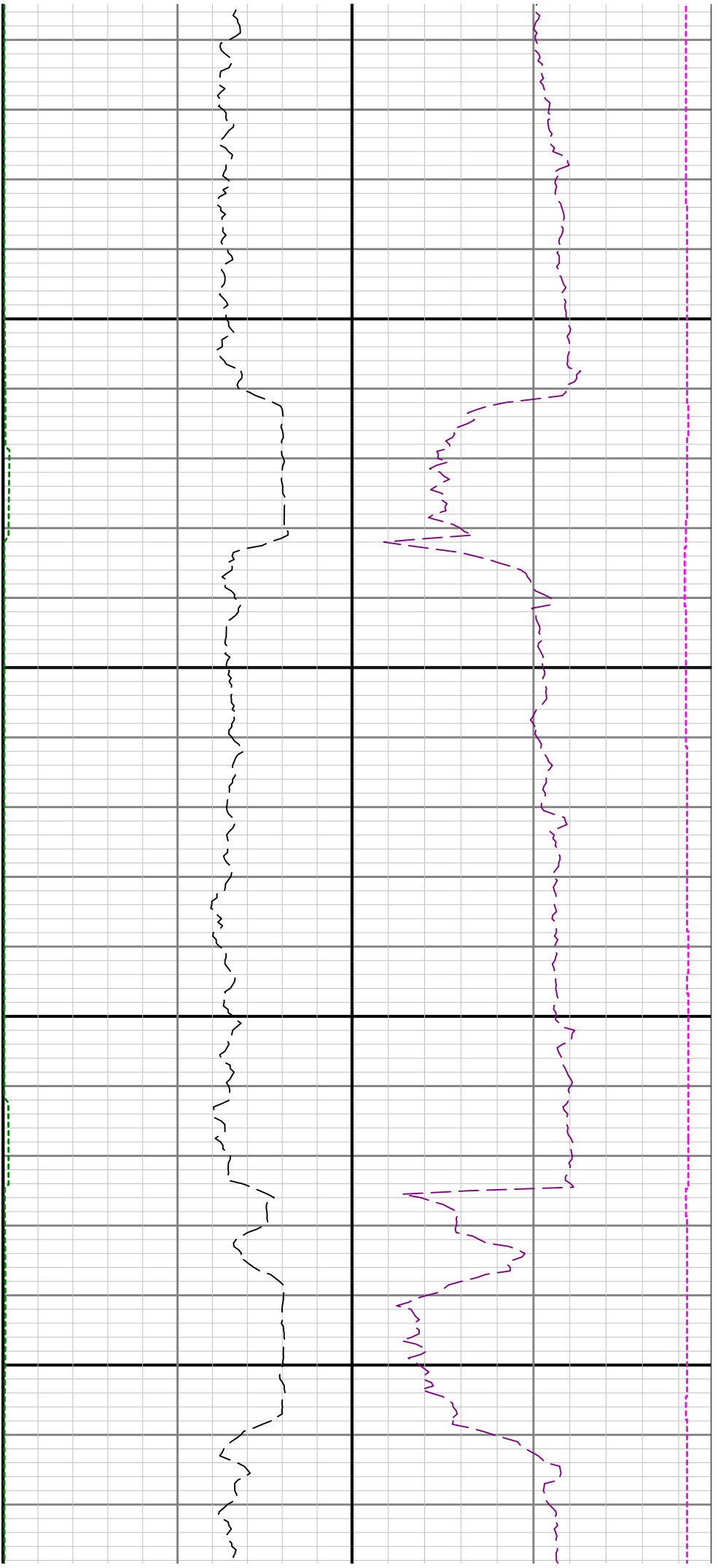


14100

14200

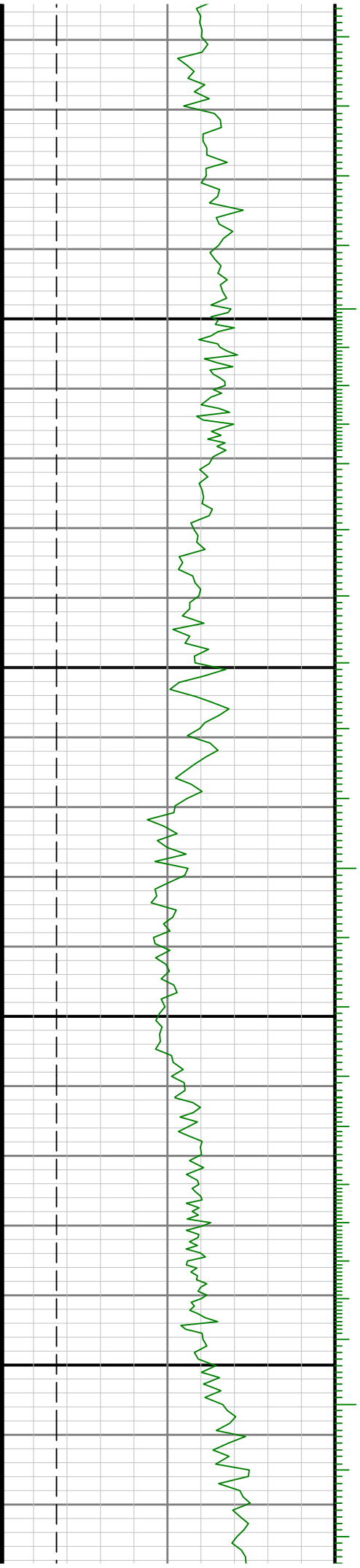


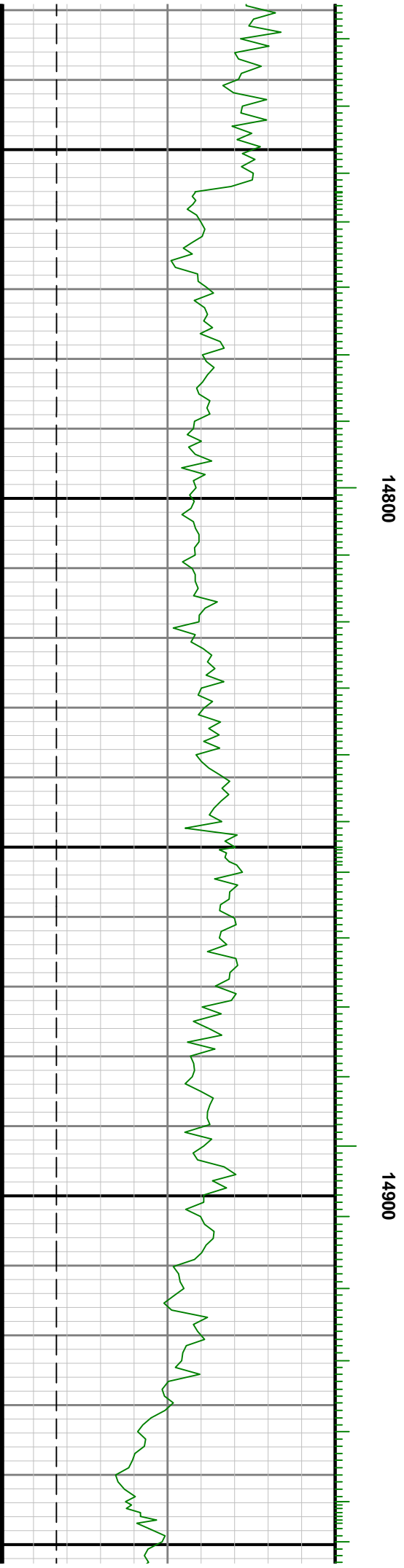
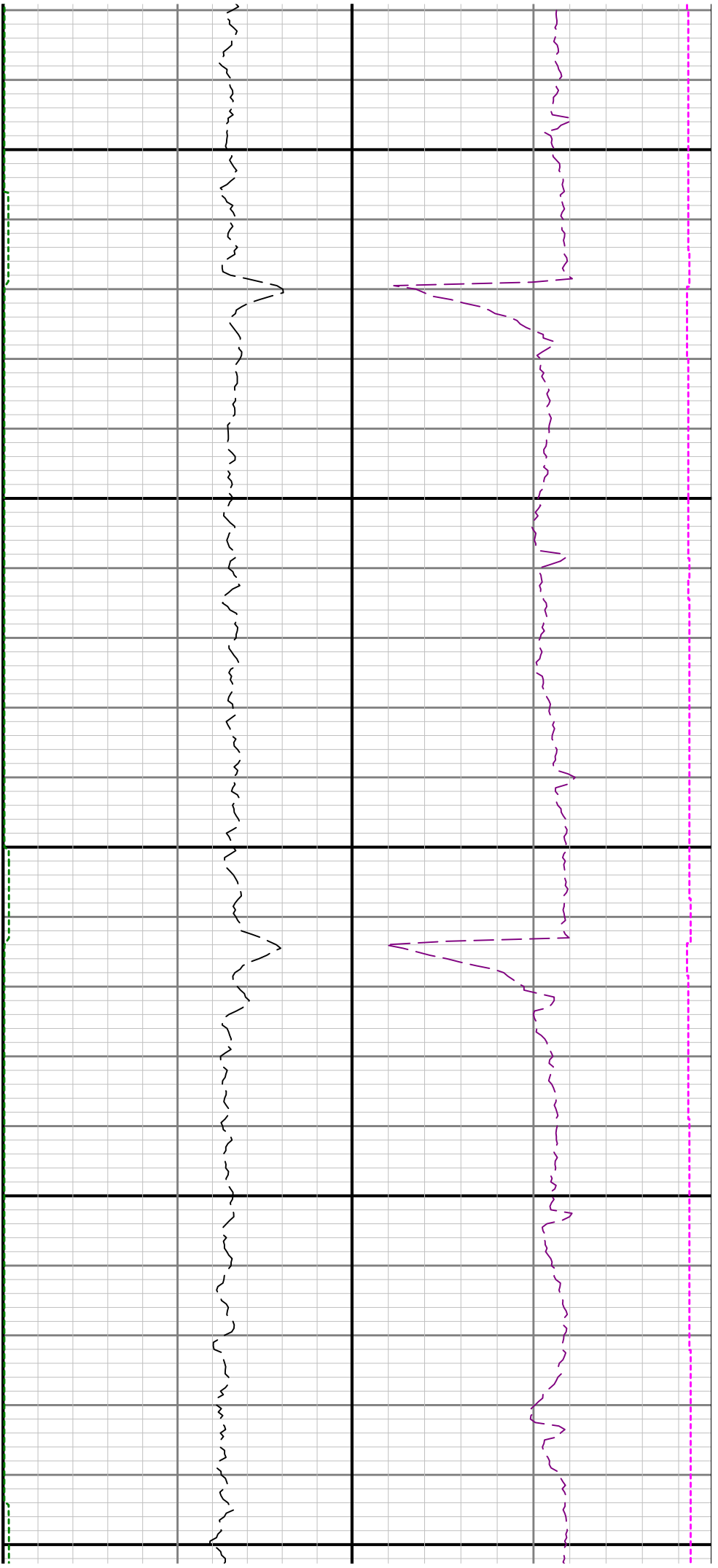


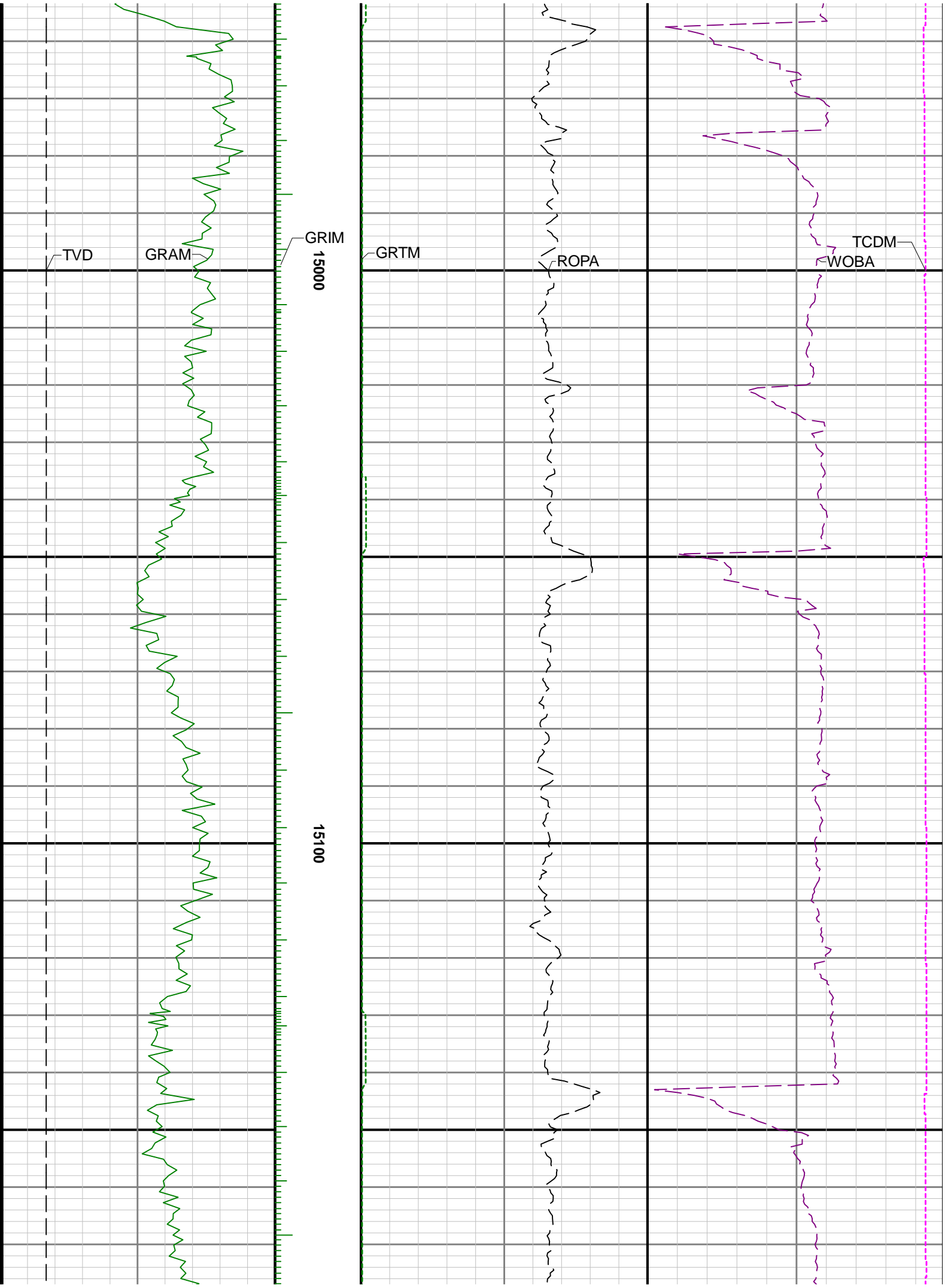


14600

14700









15200

15300

154(

