



# Gamma Ray

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Log Run Summary

Run No	Bit Run No.	Bit Size (in)	Bit Type	Bit Gauge Length (in)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Hours (h)
						Top	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	1	3.500	PDC	3.50	Steerable	1880.00	12672.00	1880.00	12714.00	2018-04-01 08:41	2018-04-03 07:16	41.68

Crew

Name		Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite
Alexis Bejarano		2018-03-31	2018-04-03	Wayne Burge		2018-03-31	2018-04-02	Mohammad Odetallah		2018-04-02	2018-04-03

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+ (%)
2018-03-31 20:00	1	1880.00	Oil Based Mud	8.9	17	N/A	4.0	79/21	Active Pit	28958	0.00
2018-04-01 15:00	1	4492.00	Oil Based Mud	8.9	17	N/A	4.0	78/22	Active Pit	27992	0.00
2018-04-02 15:00	1	9976.00	Oil Based Mud	9.1	20	N/A	4.0	80/20	Active Pit	27992	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	NaviGamma	13312568	Gamma (single)	11.52	41.95	6.500	3.250
1	NaviGamma	13312568	VSS	14.94	45.37	6.500	3.250
1	NaviGamma	13312568	Directional (mag)	14.94	45.37	6.500	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
GAM	NaviGamma	Probe Based Gamma Module, NaviTrak Platform

Comments


1	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.
2	A sliding indicator is shown to the left edge of track 1 as a heavy line. The indicator has been depth-shifted to the Gamma Ray sensor offset to correspond with Gamma Ray data acquired while sliding.
3	Baker Hughes run 1 utilized 6 1/2 inch NaviGamma services (Gamma Ray and Directional) behind a 7 7/8 inch bit and steerable assembly from 1880 to 12714 feet MD (1829 to 7390 feet TVD).
4	Gamma Ray (GRAX) scale is presented 0 to 200 API per customer request.
5	There are numerous gaps throughout the log due to surveying while on bottom drilling ahead.

Remarks

Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	1880.00	7.875	1	Baker Hughes began logging at 1880 feet MD (1829 feet TVD) as requested by the client.
2	12714.00	7.875	1	The interval from 12672 to 12714 feet MD (7387 to 7390 feet TVD) was not logged due to sensor offset from the bit.

Curve Mnemonics

Presented Curves	Description	Units
TCDX	Downhole Temperature	degF
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAX	Gamma Ray - Apparent - Real-Time 0.5 ft Average	API
GRIX	Gamma Ray - Data Point Indicator - Real-Time	unitless
GRTX	Gamma Ray - Time Since Drilled - Real-Time	min
GRSI	Sliding Indicator Flag	unitless



Company

Well

Interval

Created

Anadarko

AZUL 13-29HZ

Date From:

2018-04-01 08:41:33

Date To:

2018-04-03 07:15:54

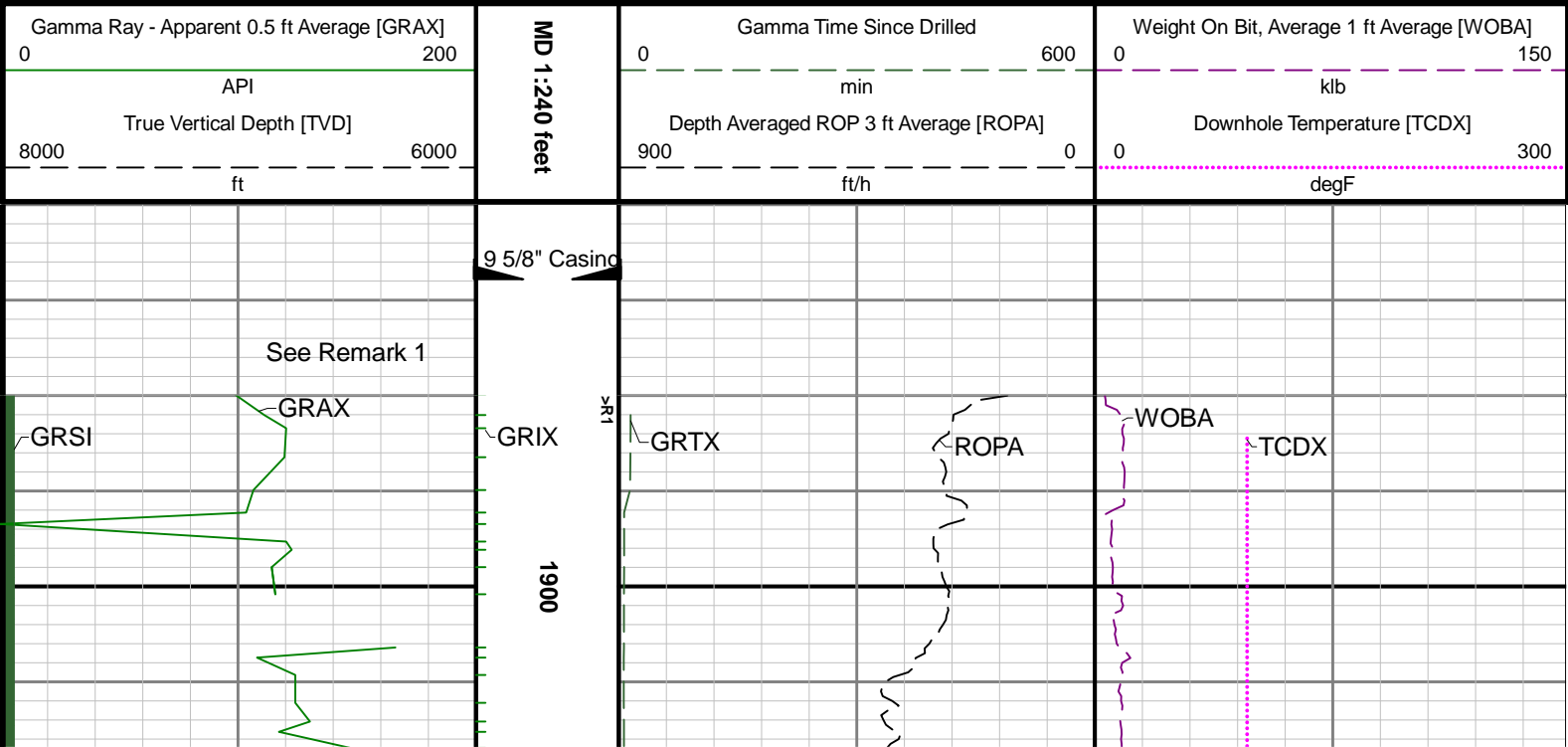
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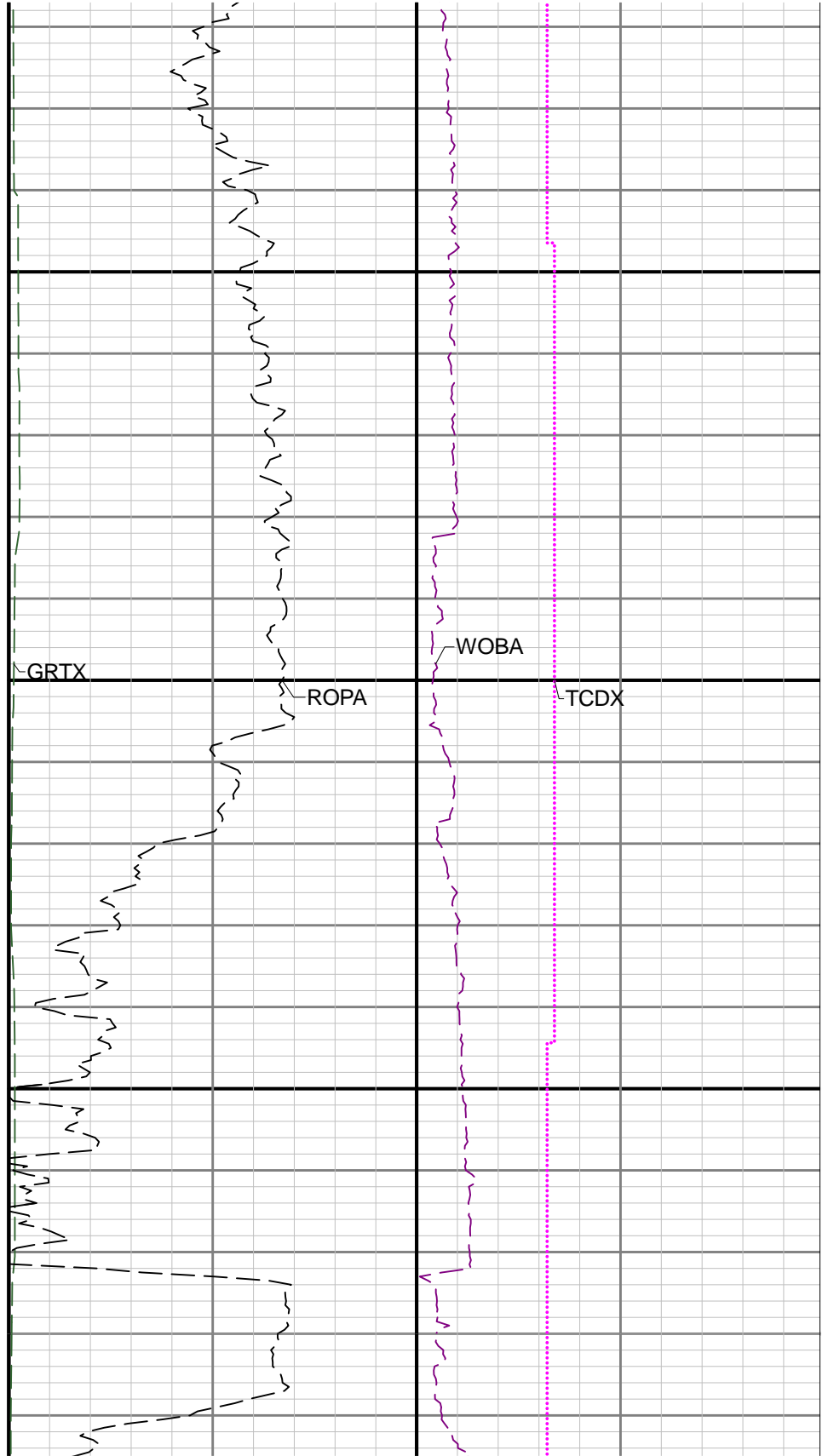
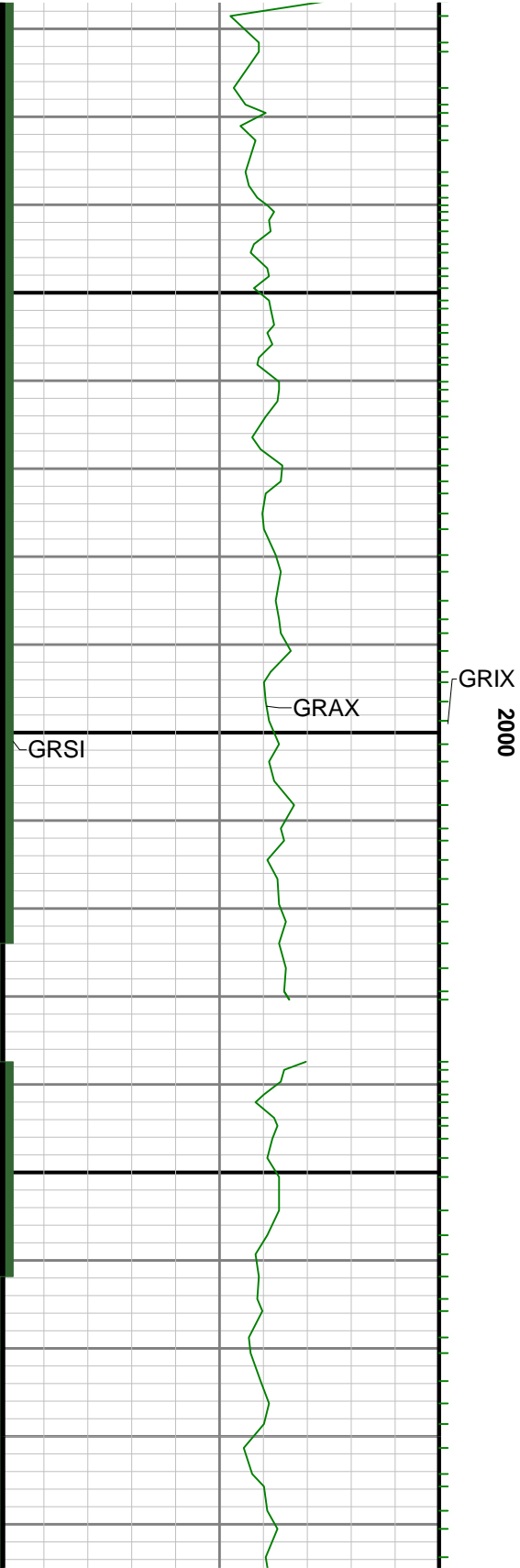
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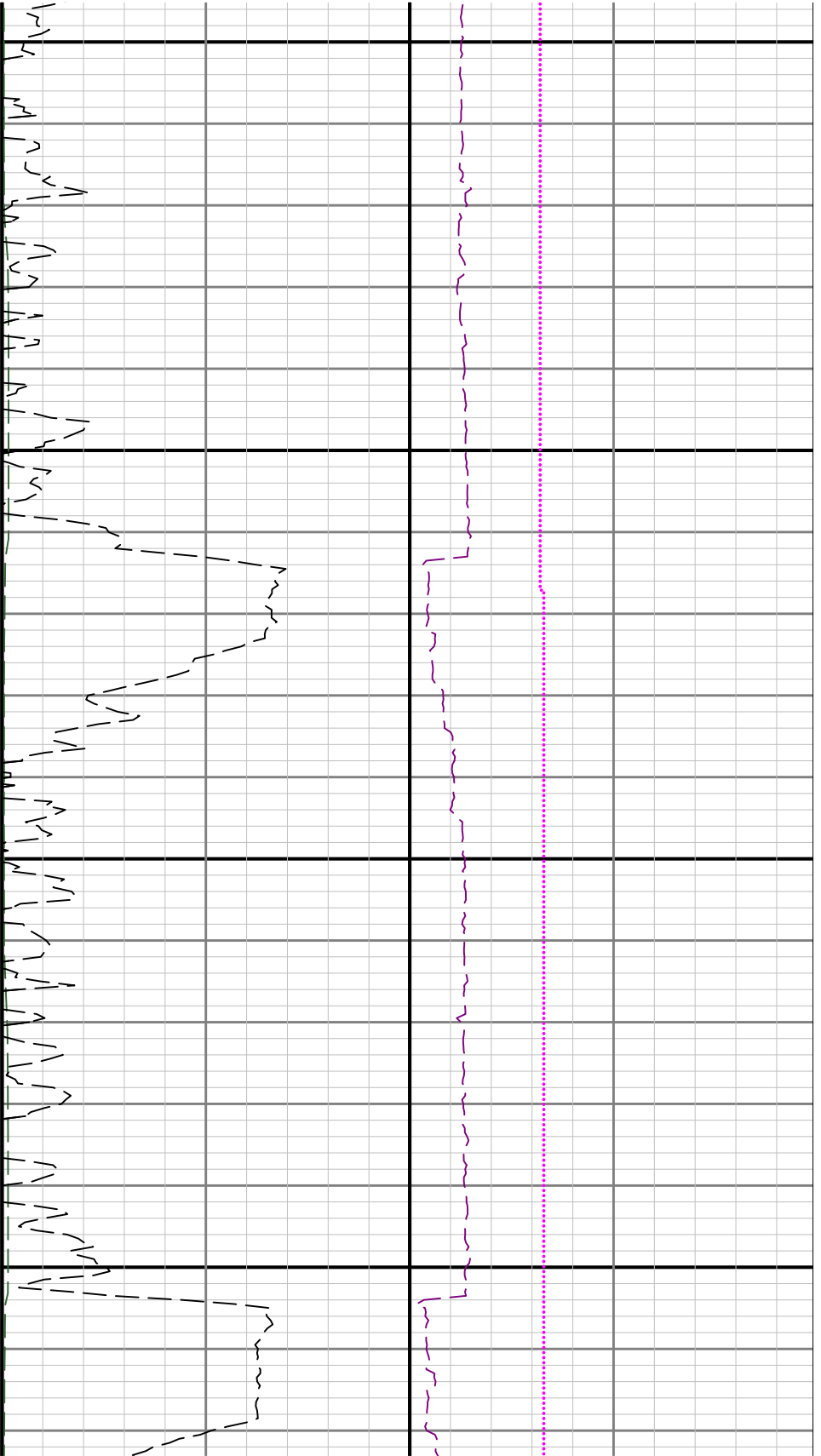
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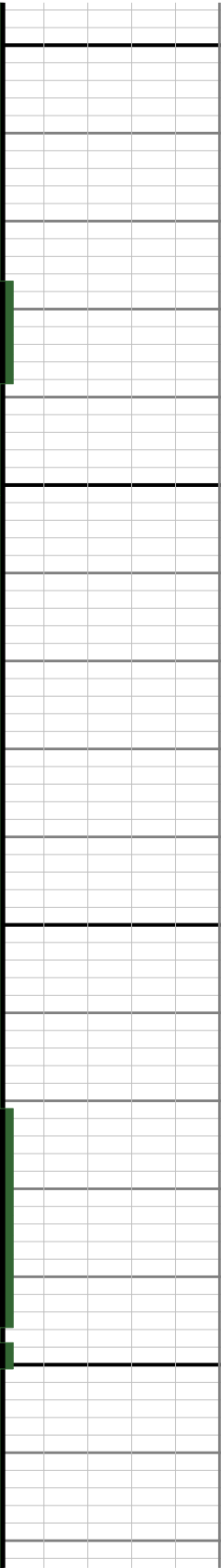
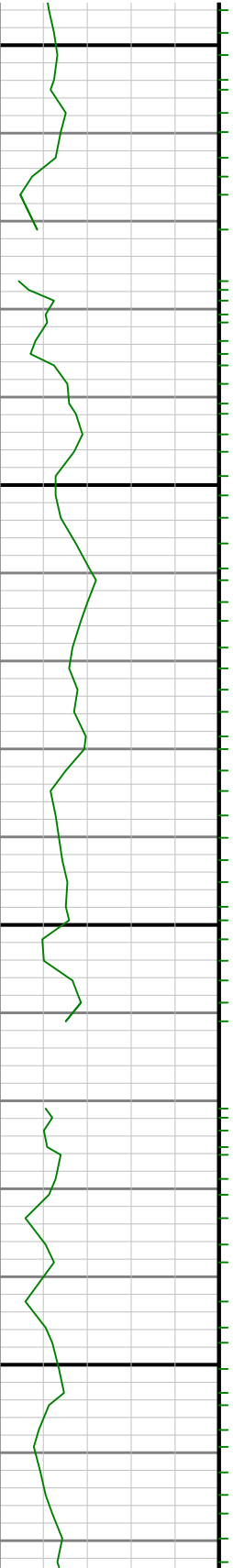


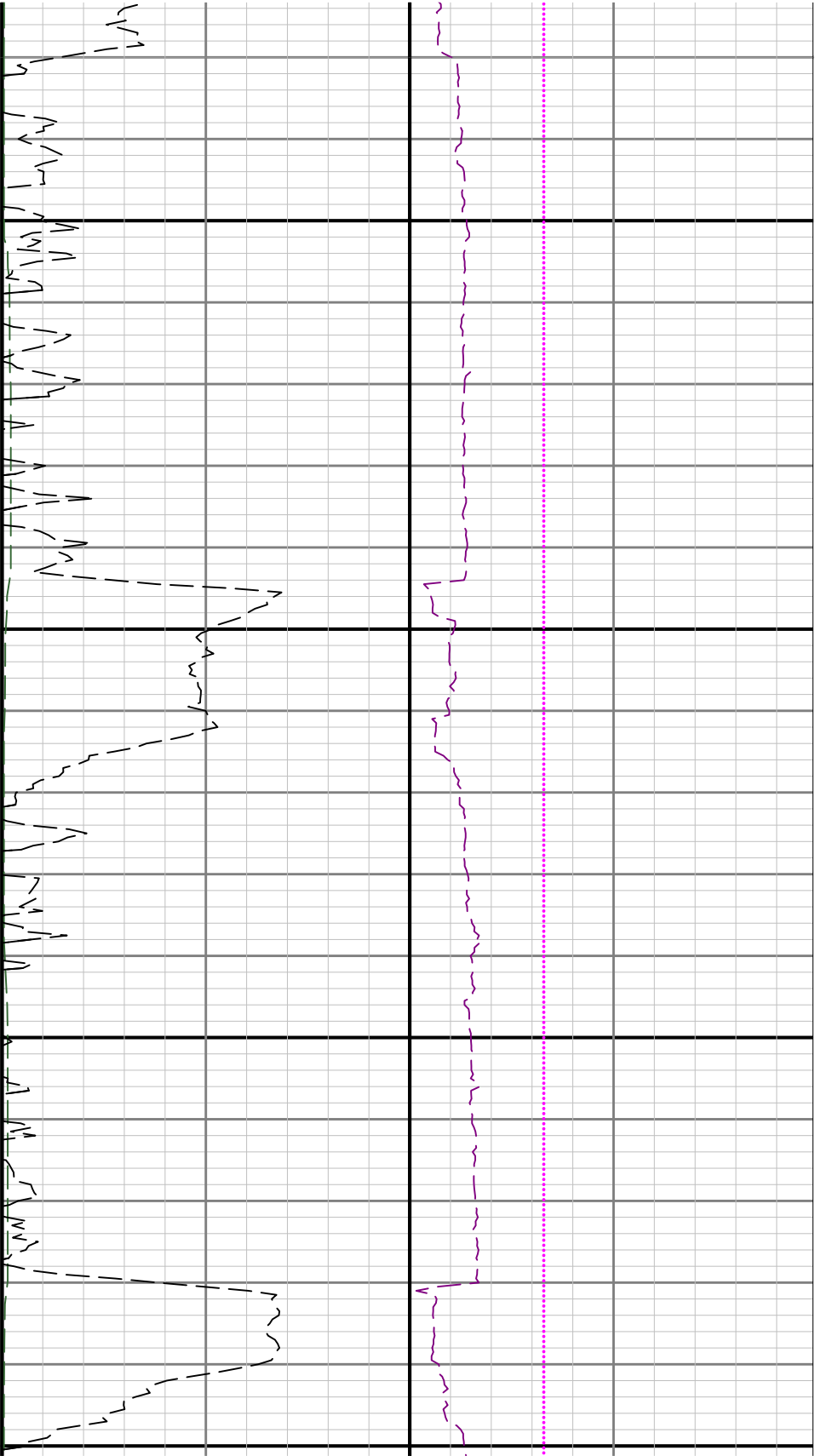




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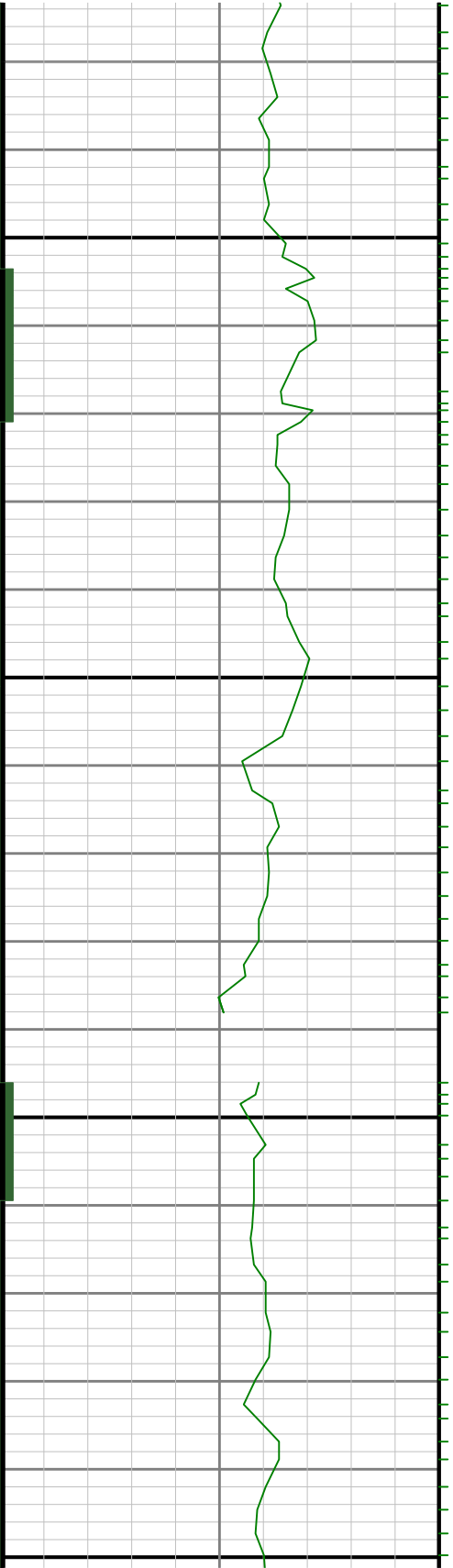
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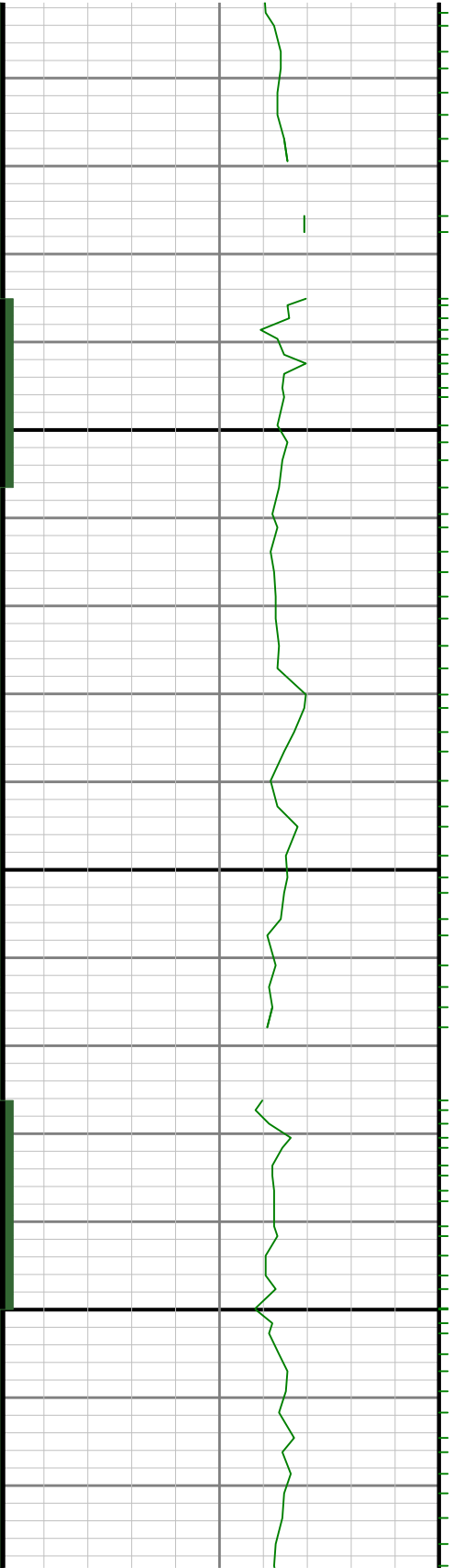
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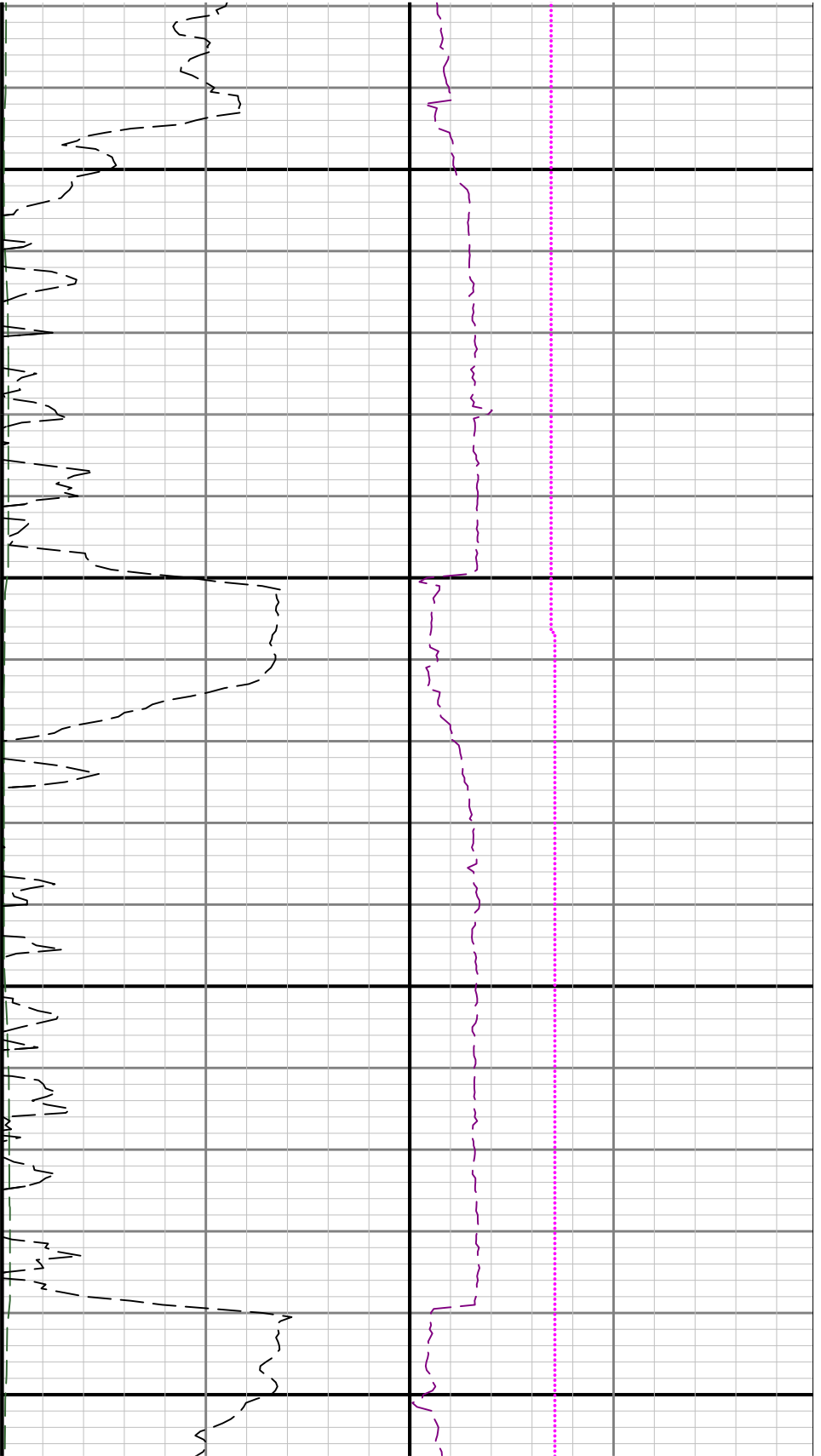




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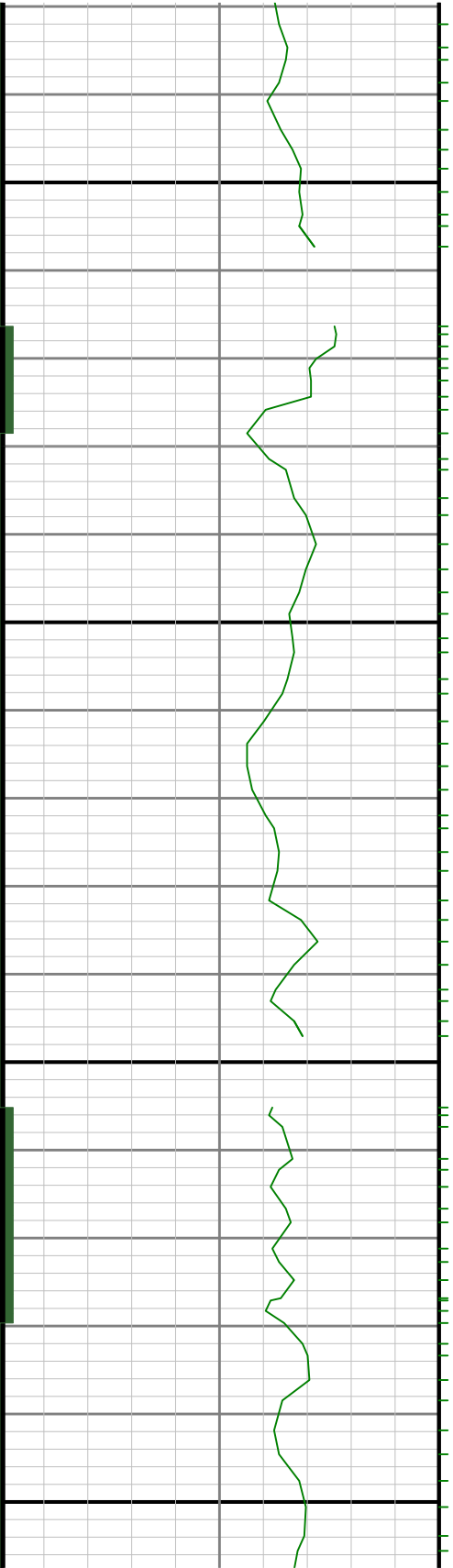
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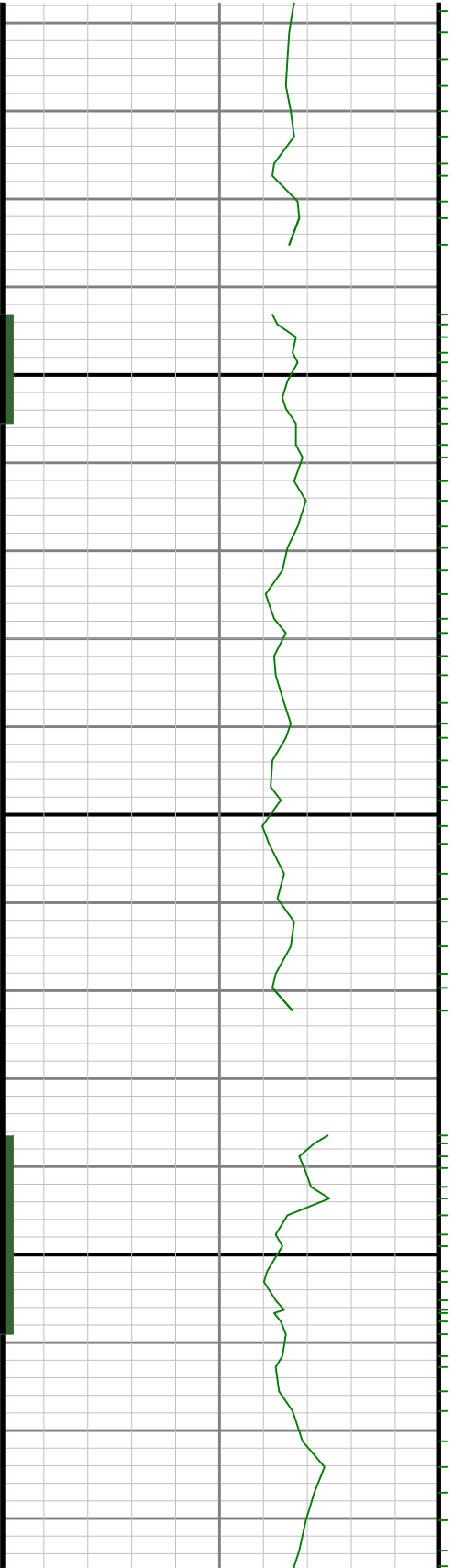
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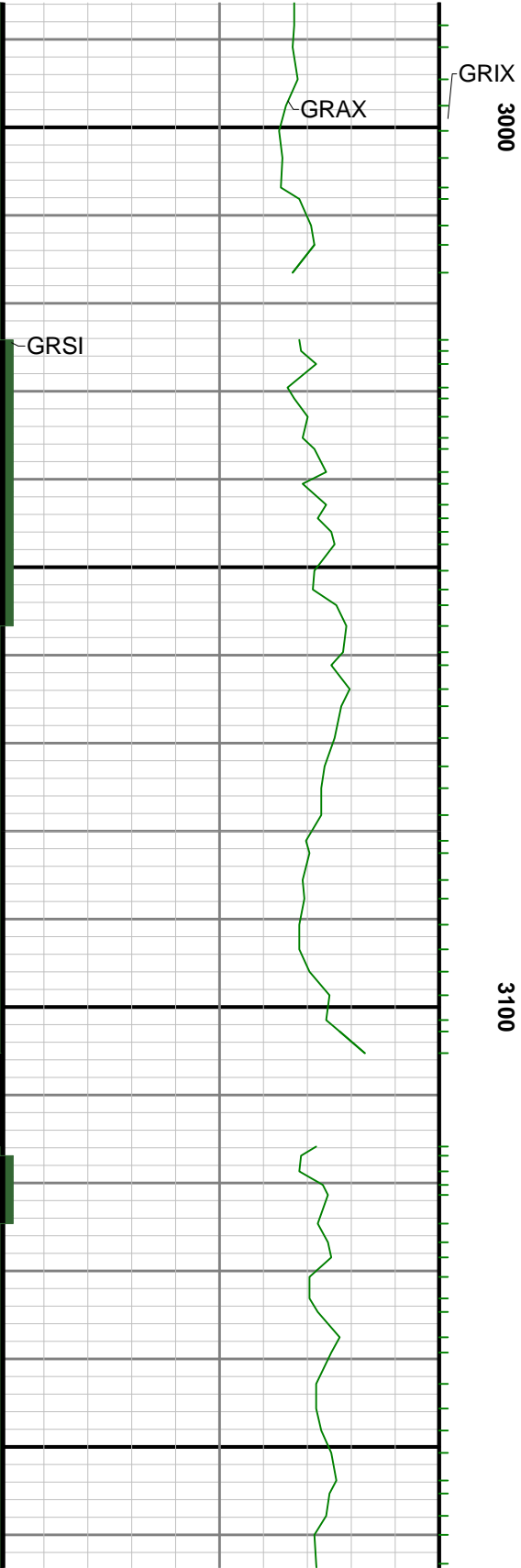






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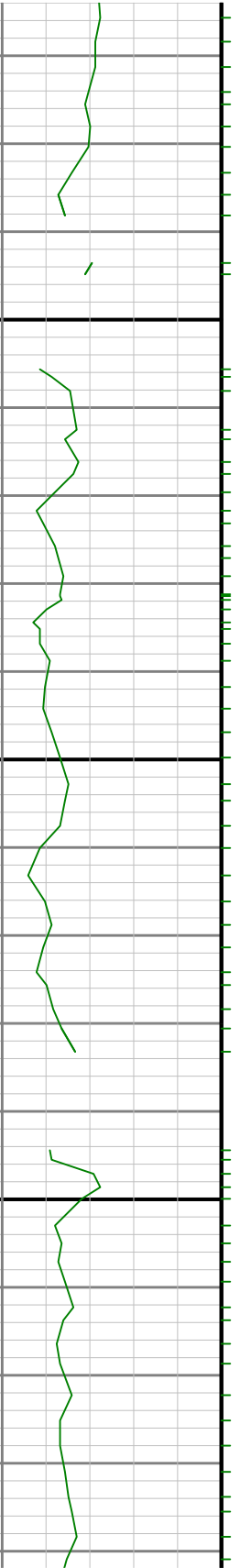
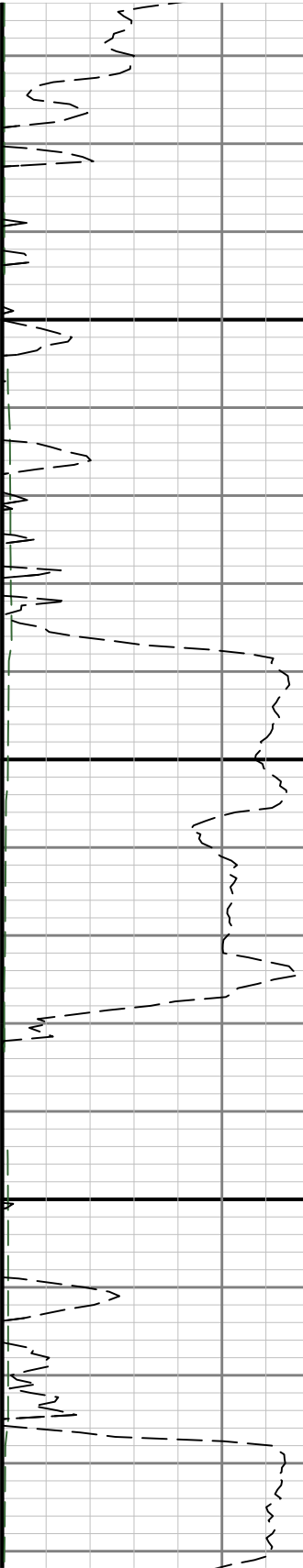


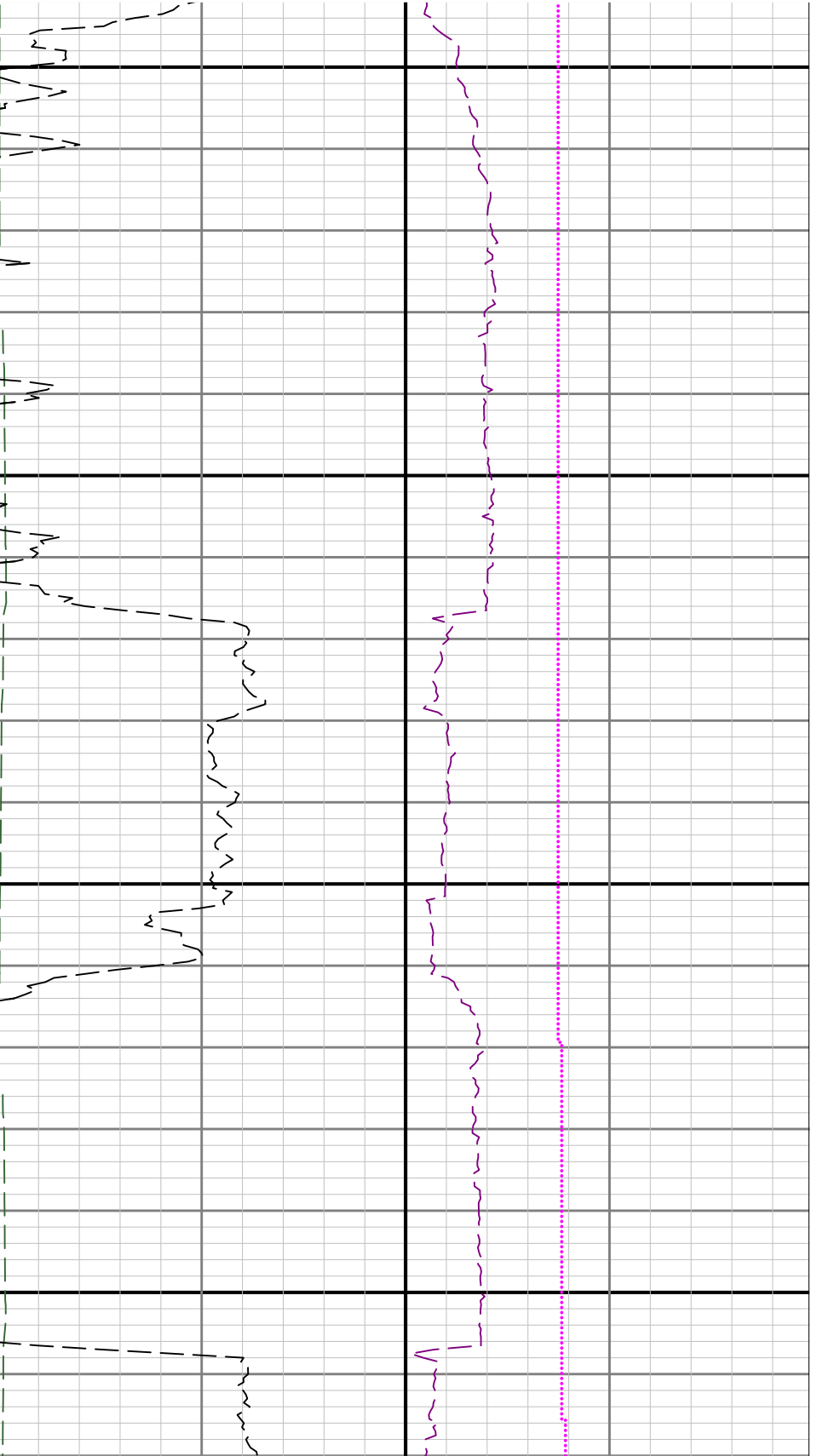




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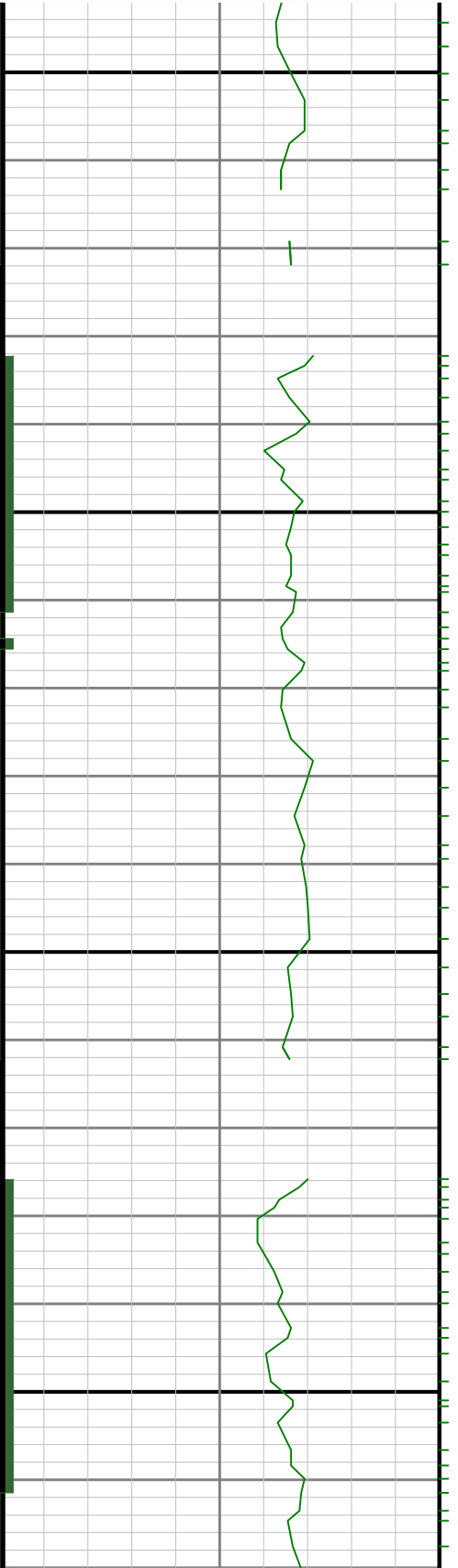
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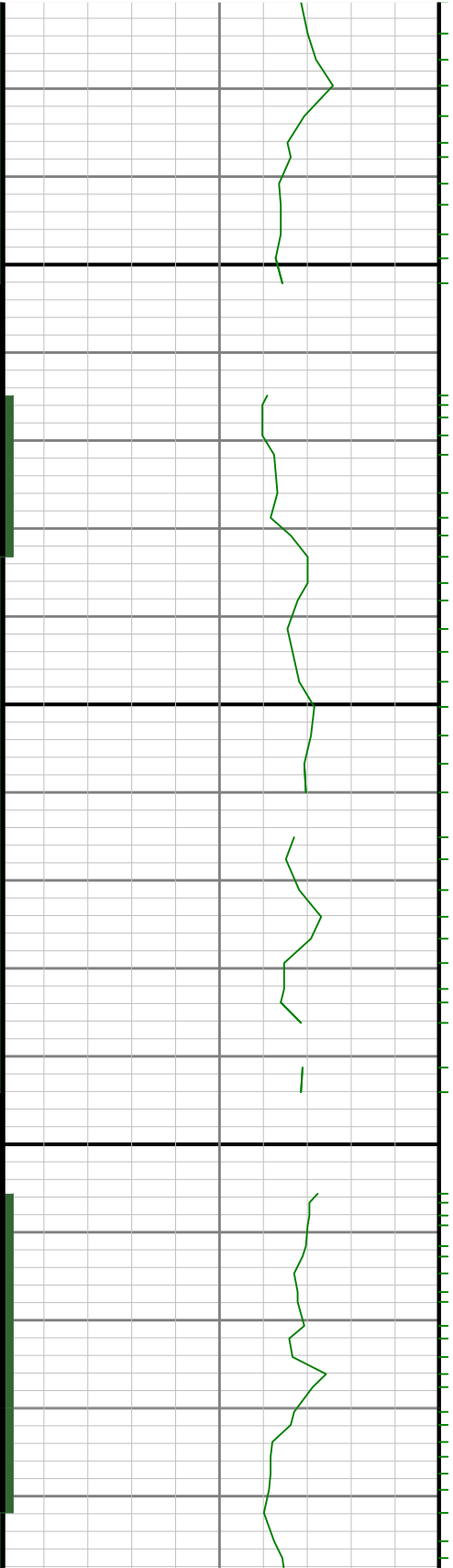


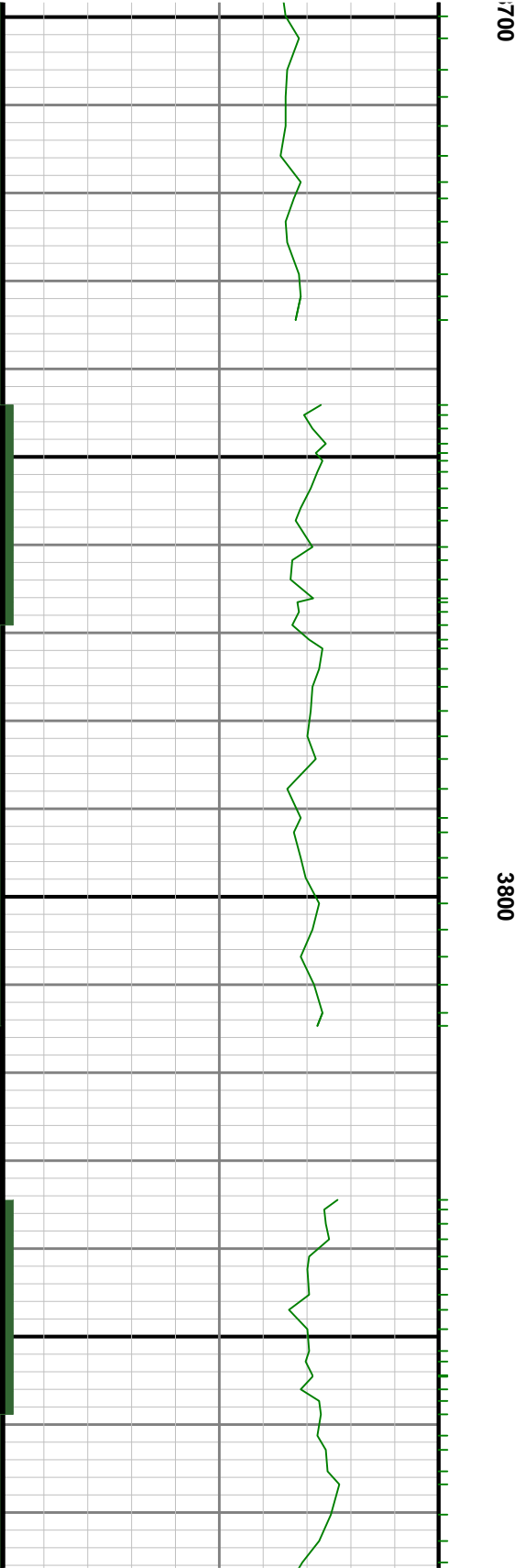
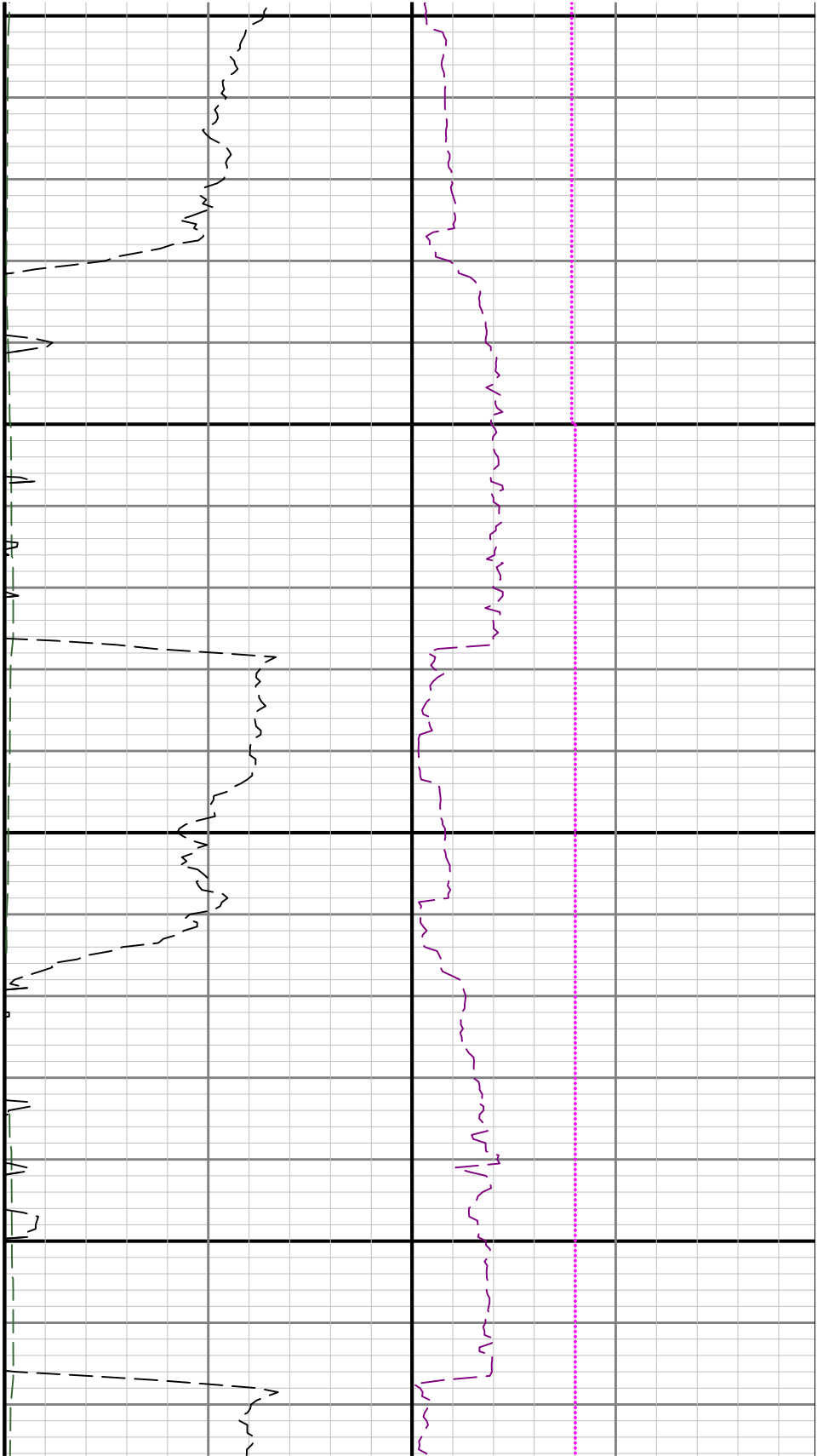


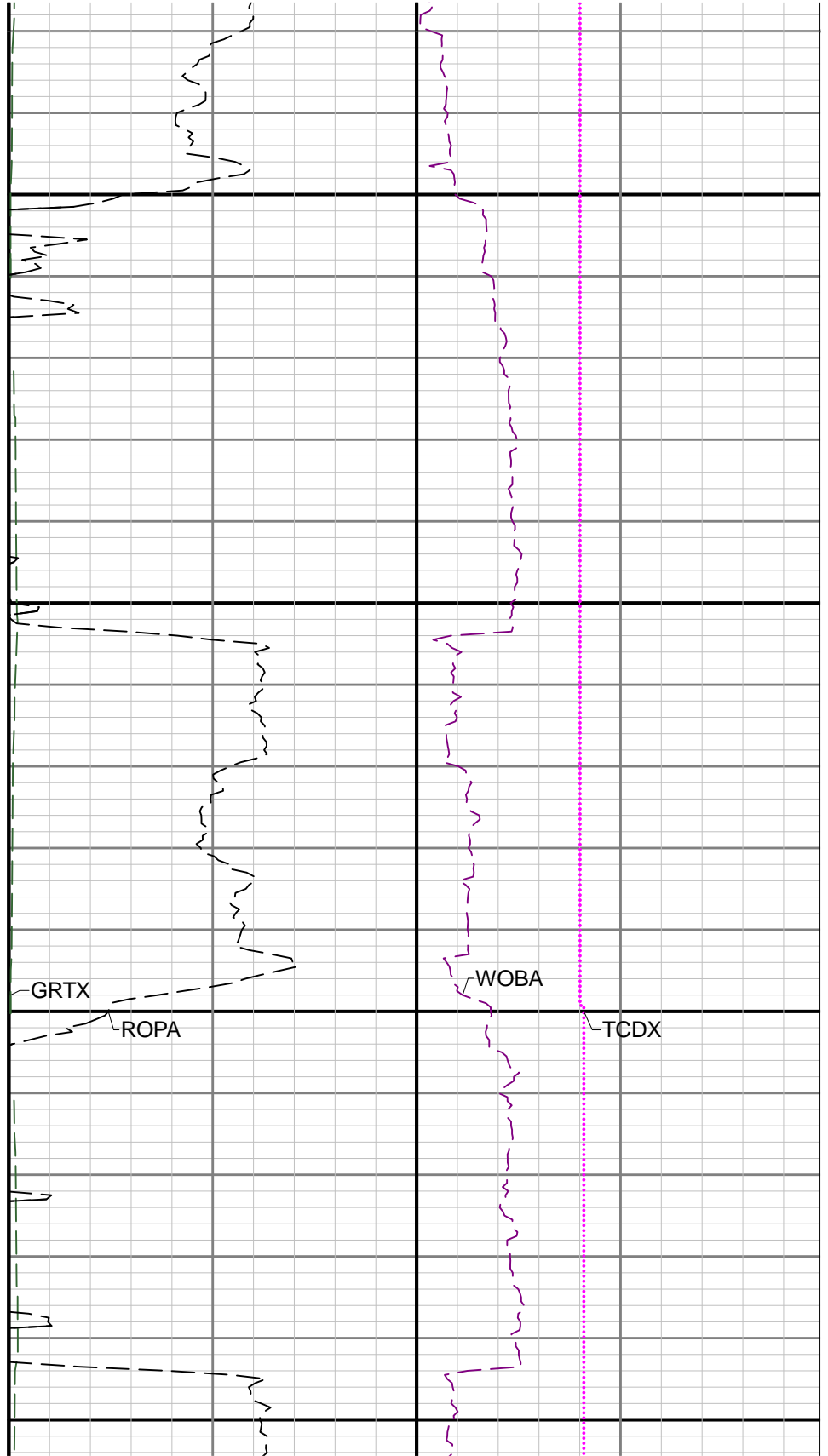
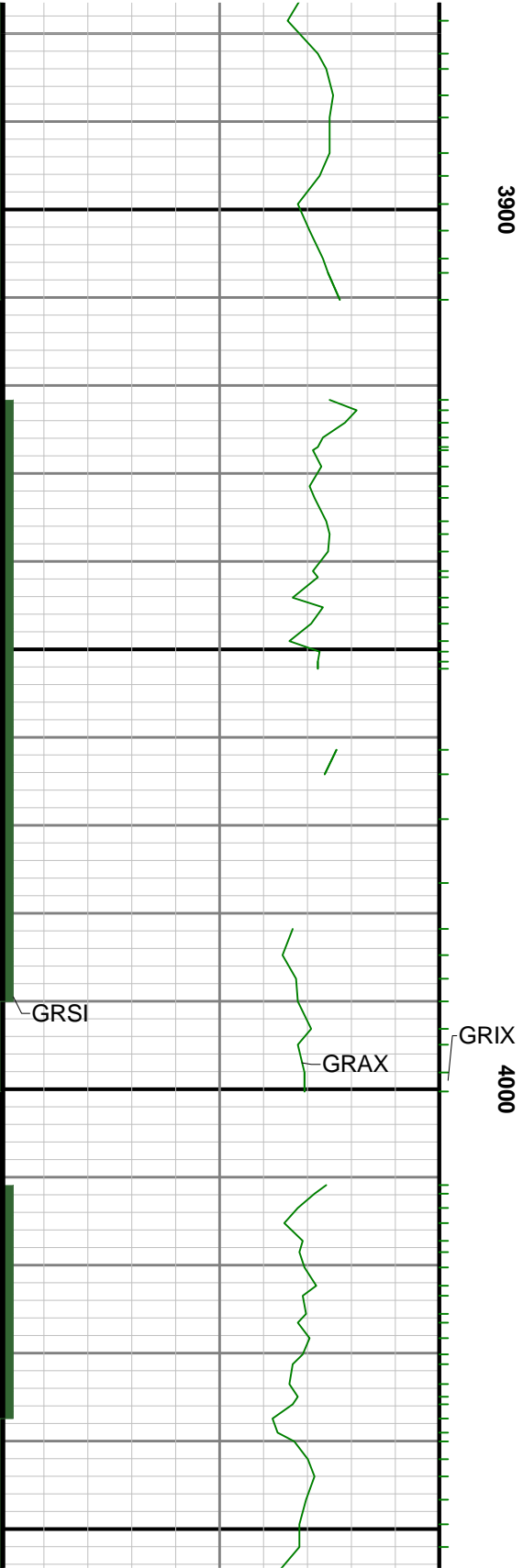
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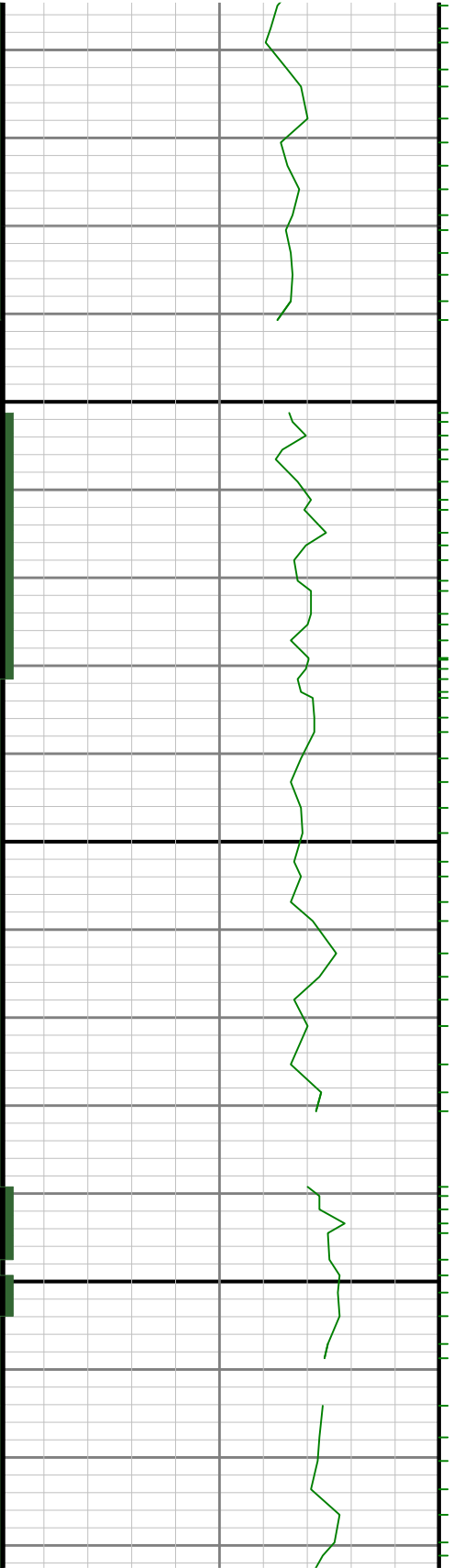






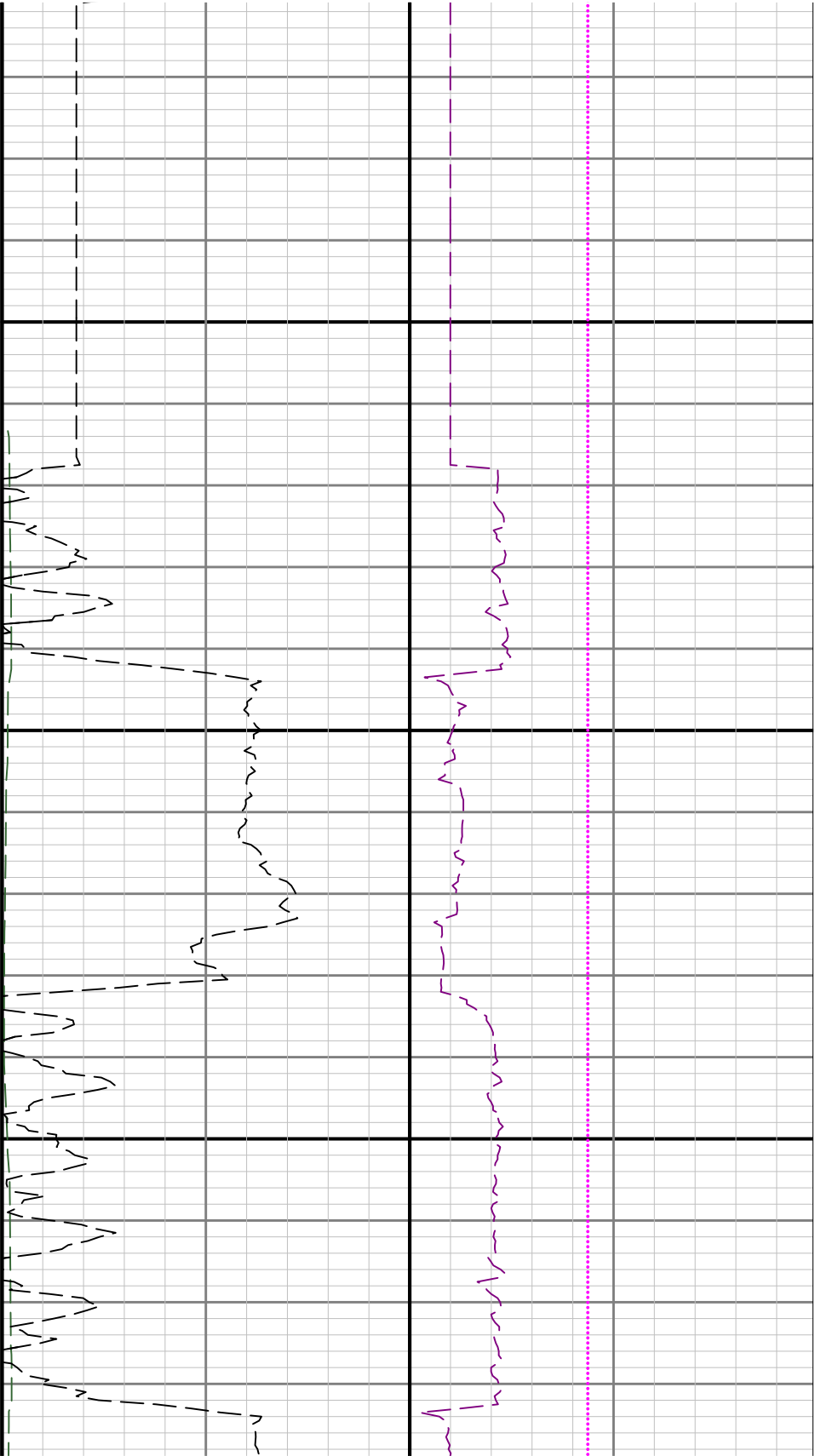
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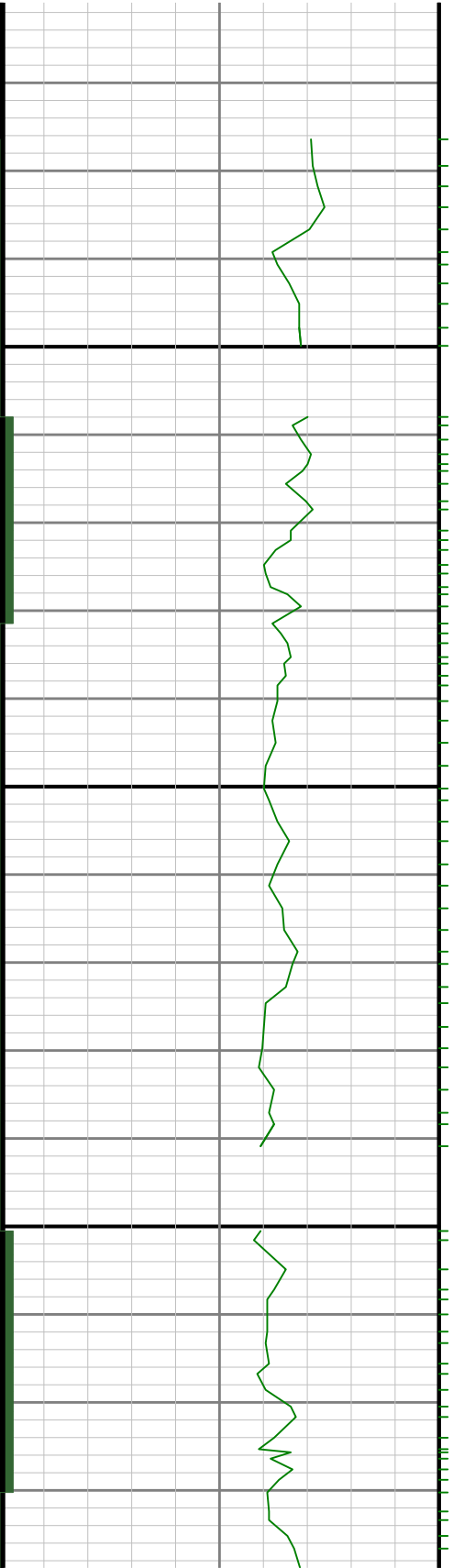


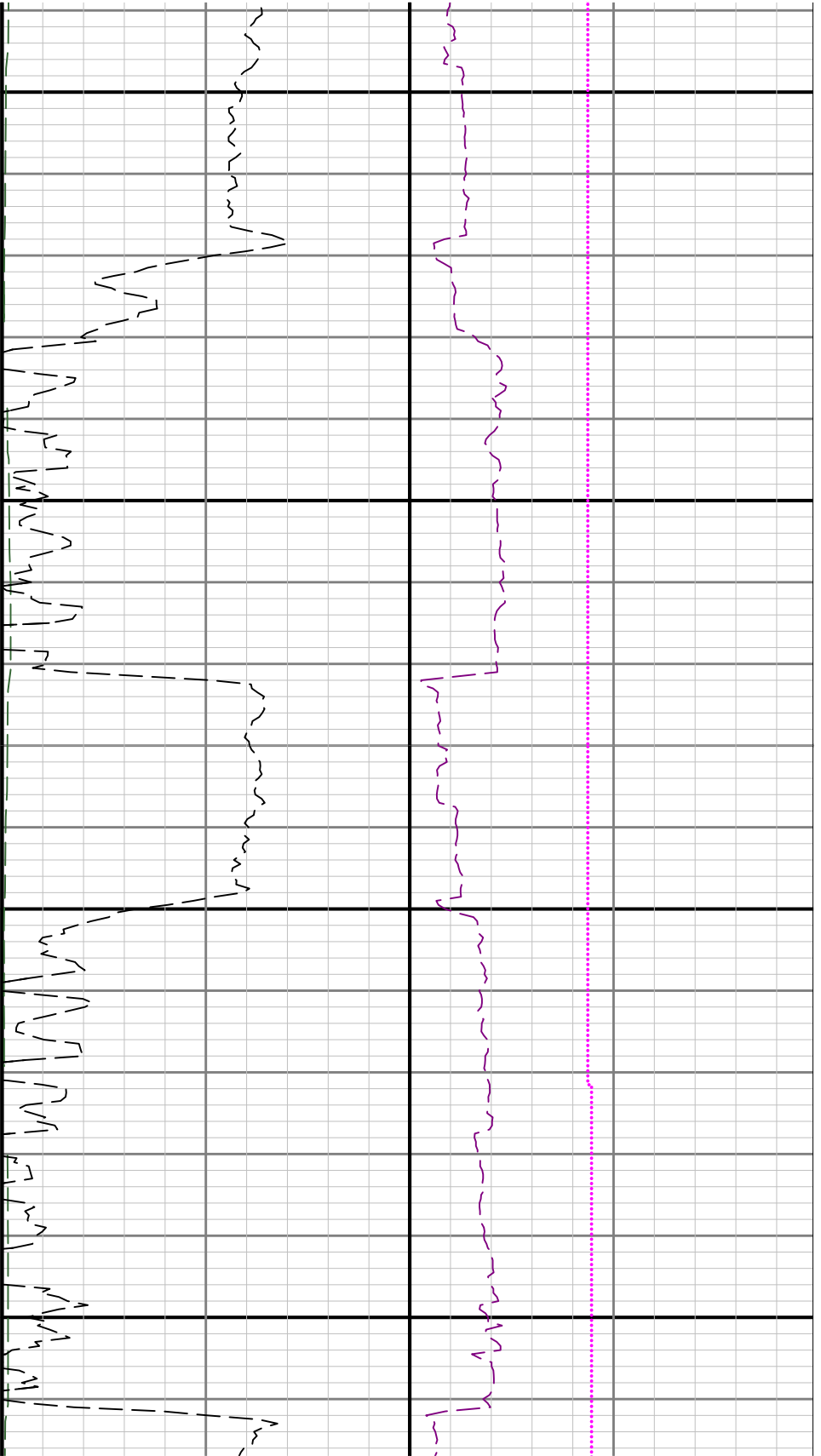






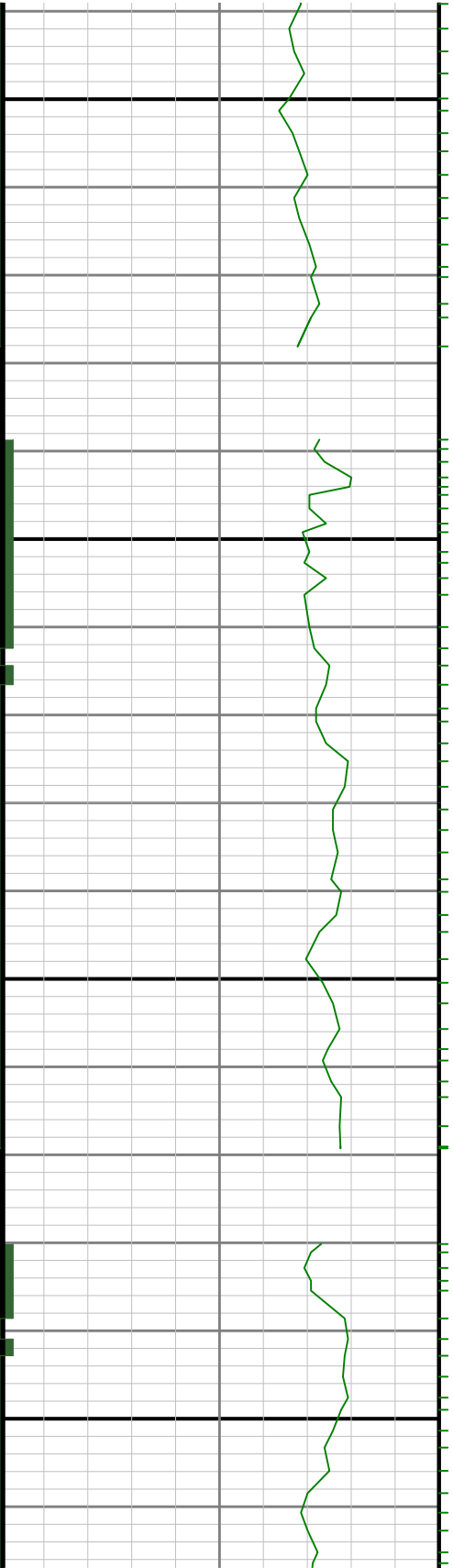
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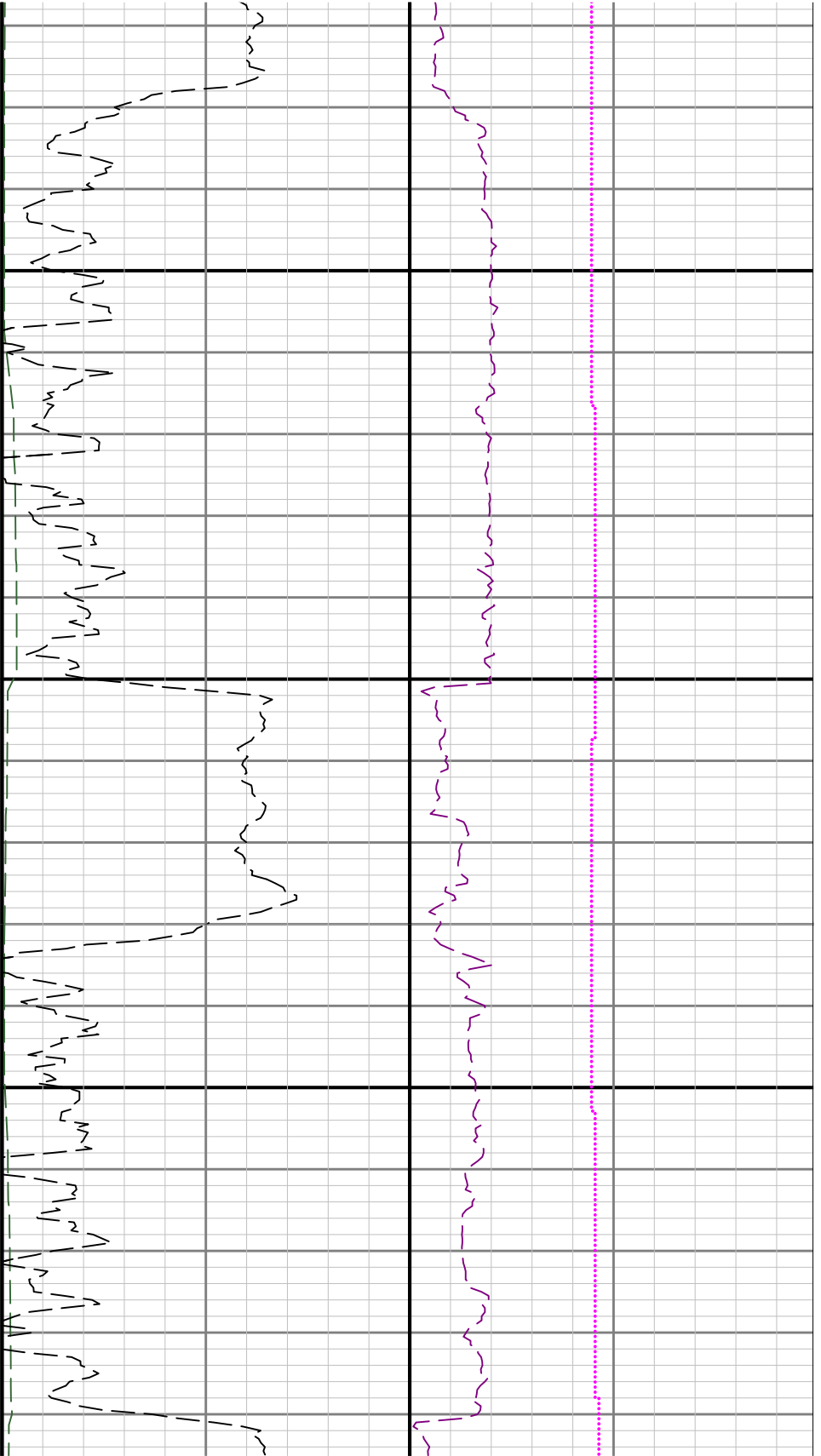




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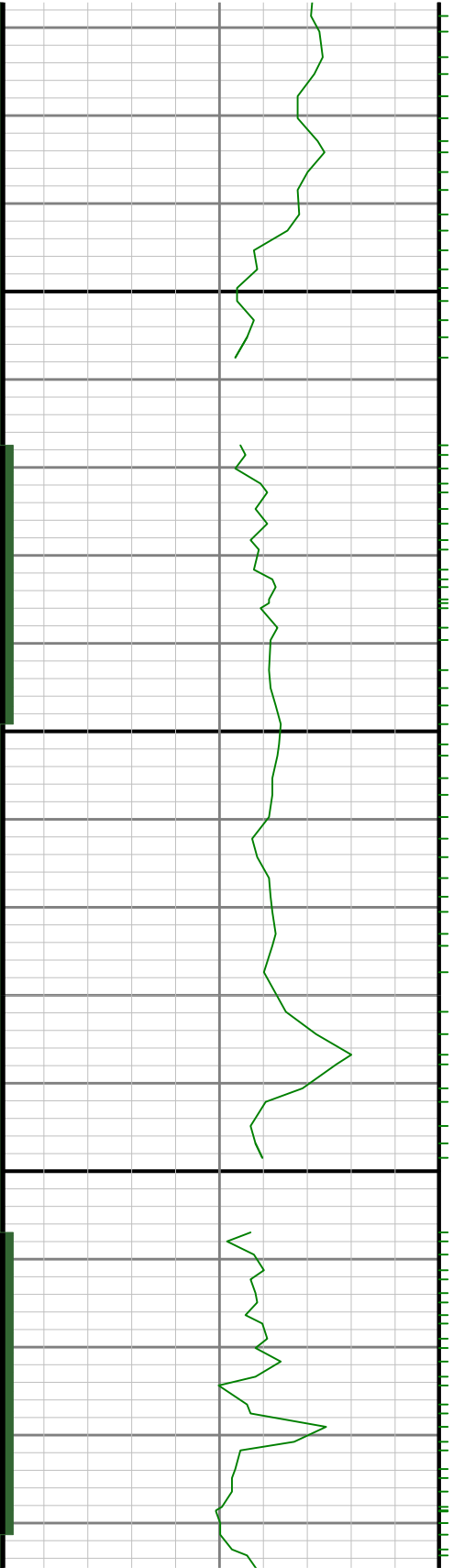
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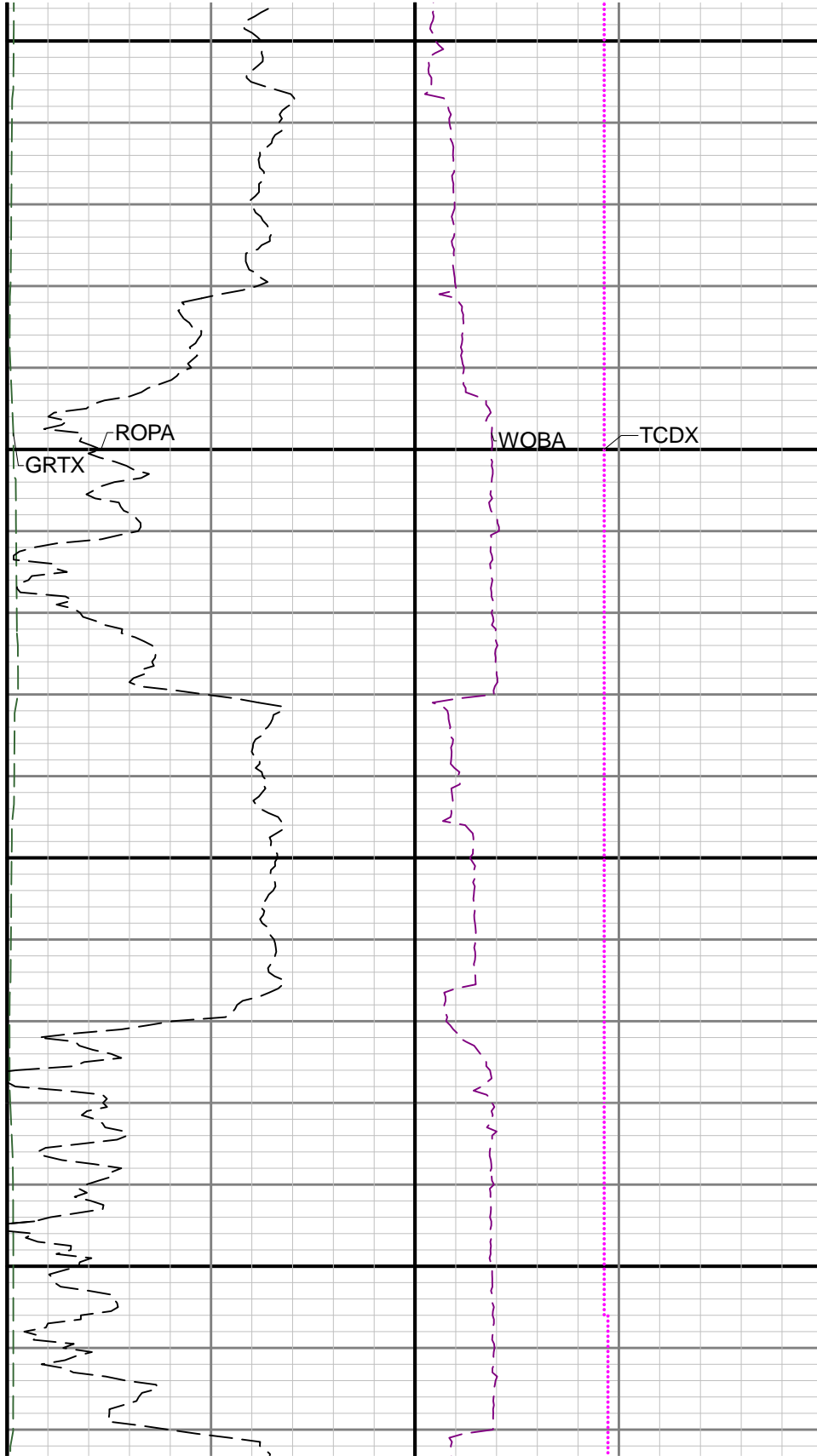
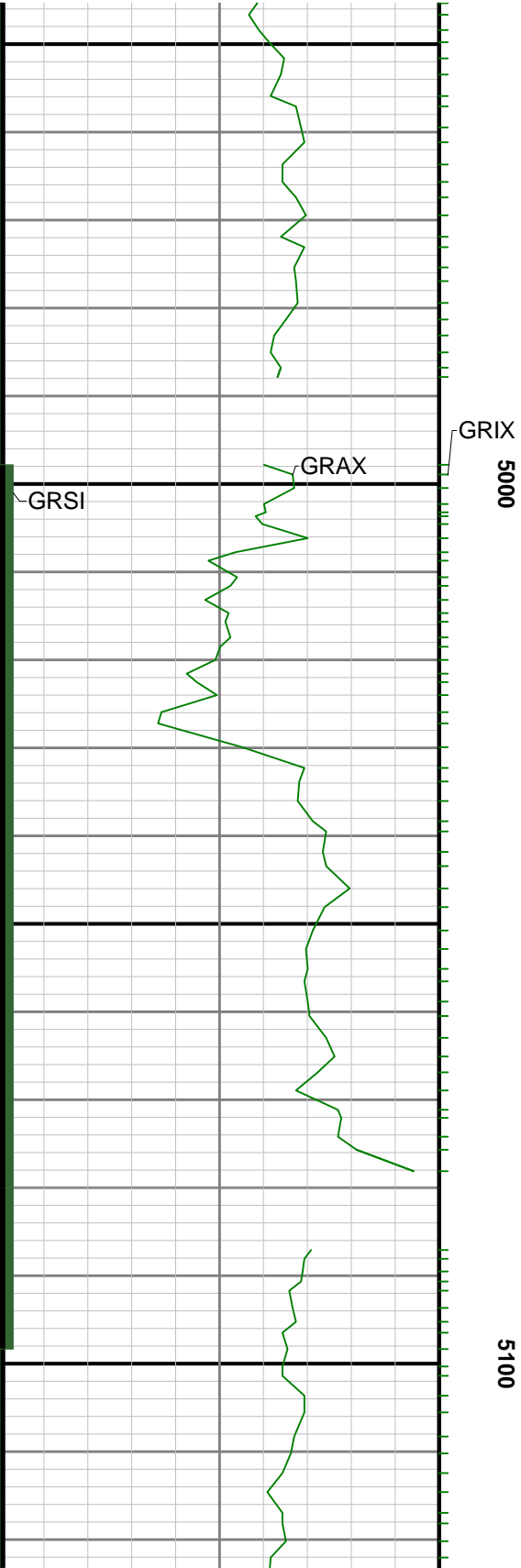


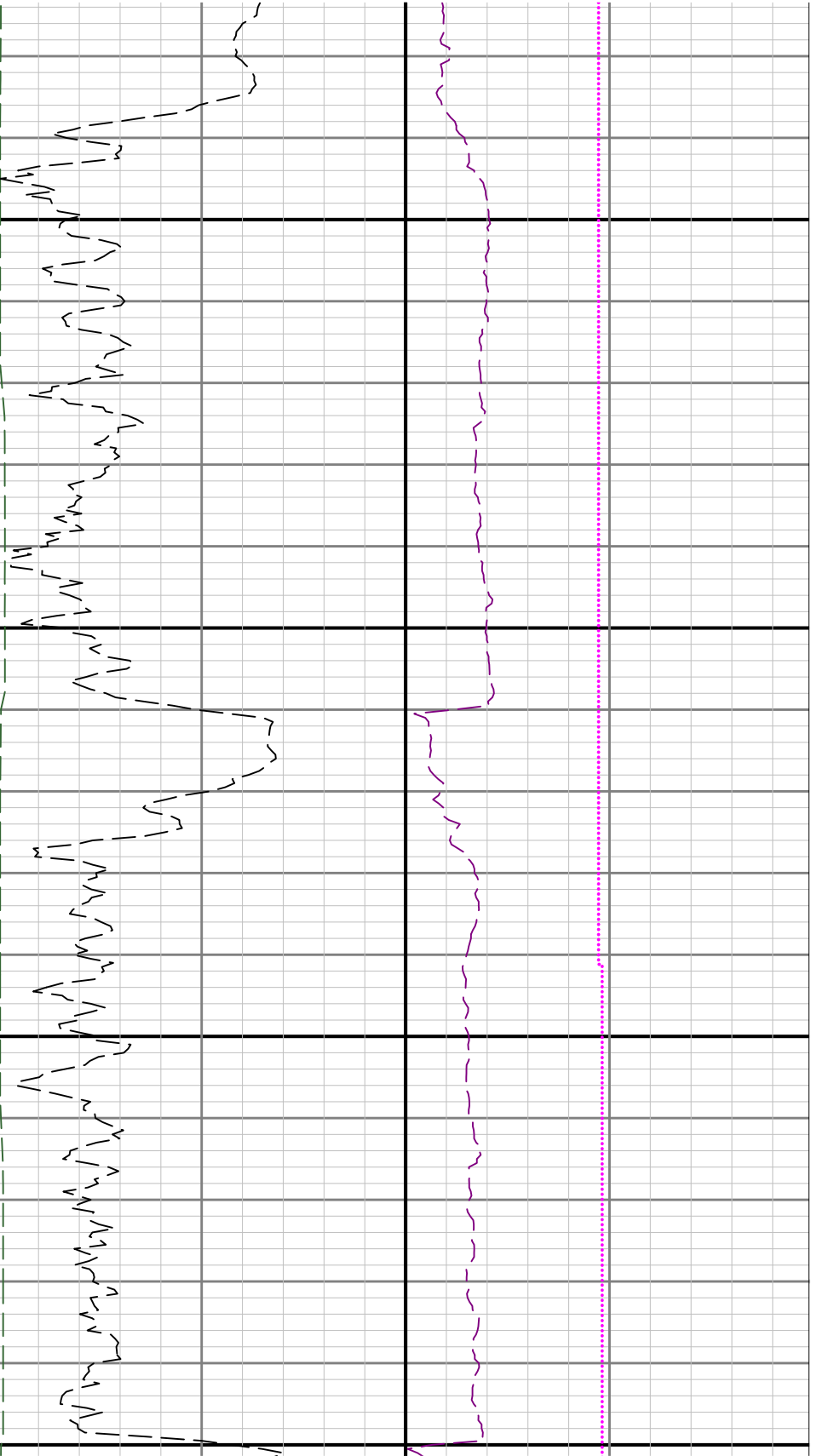


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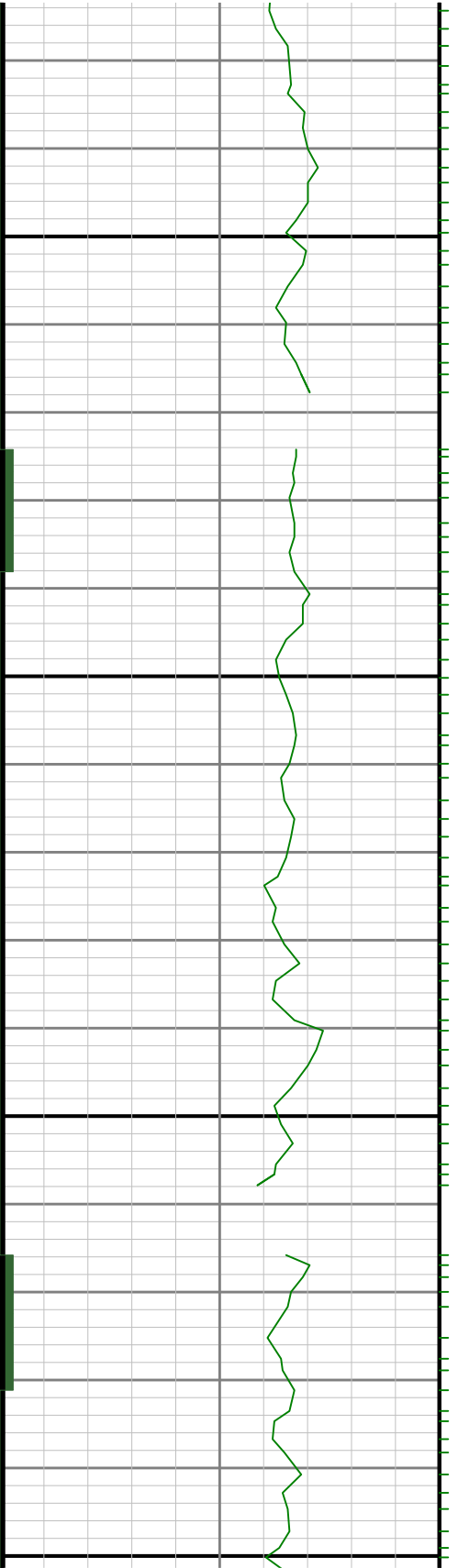


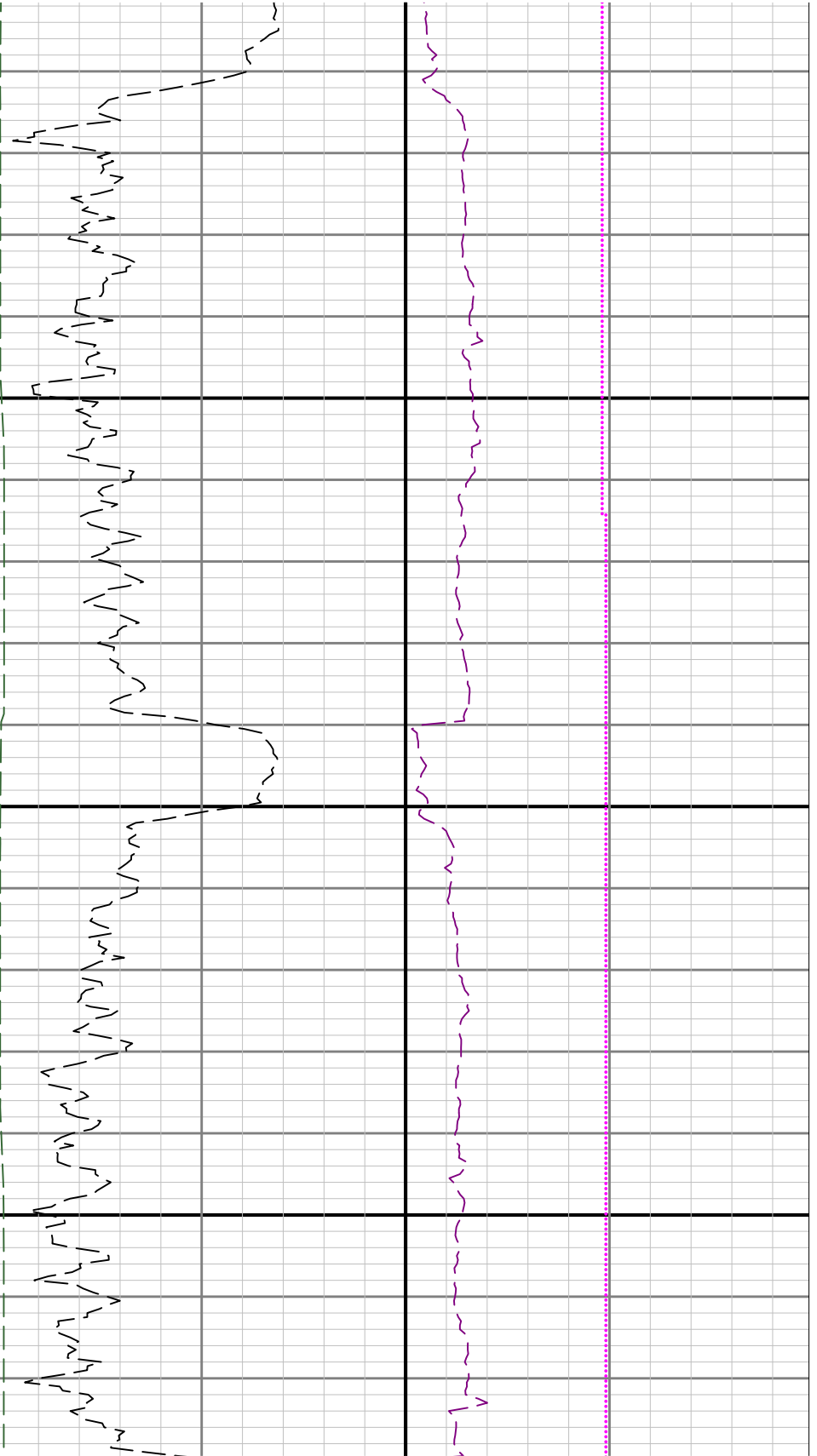




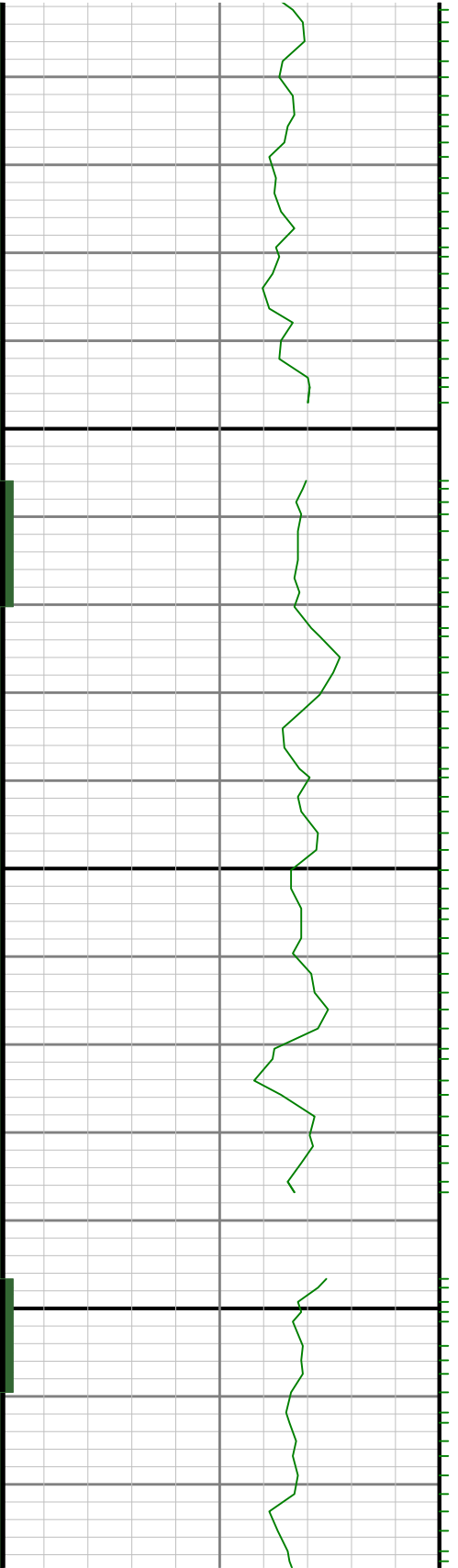
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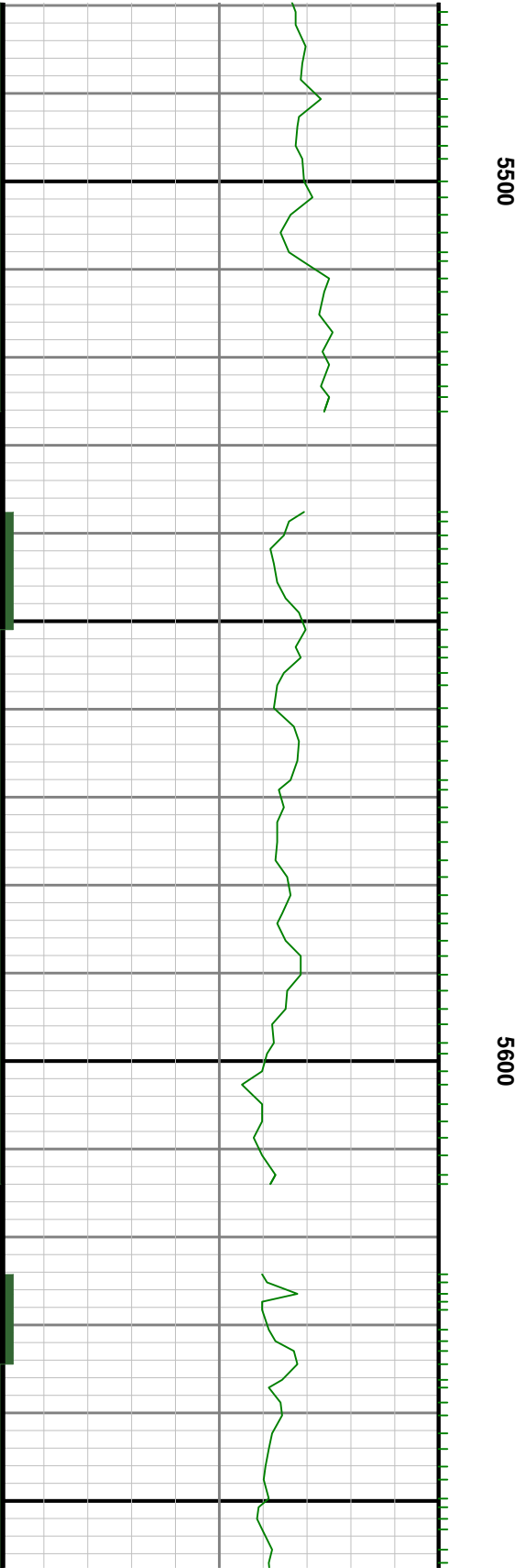
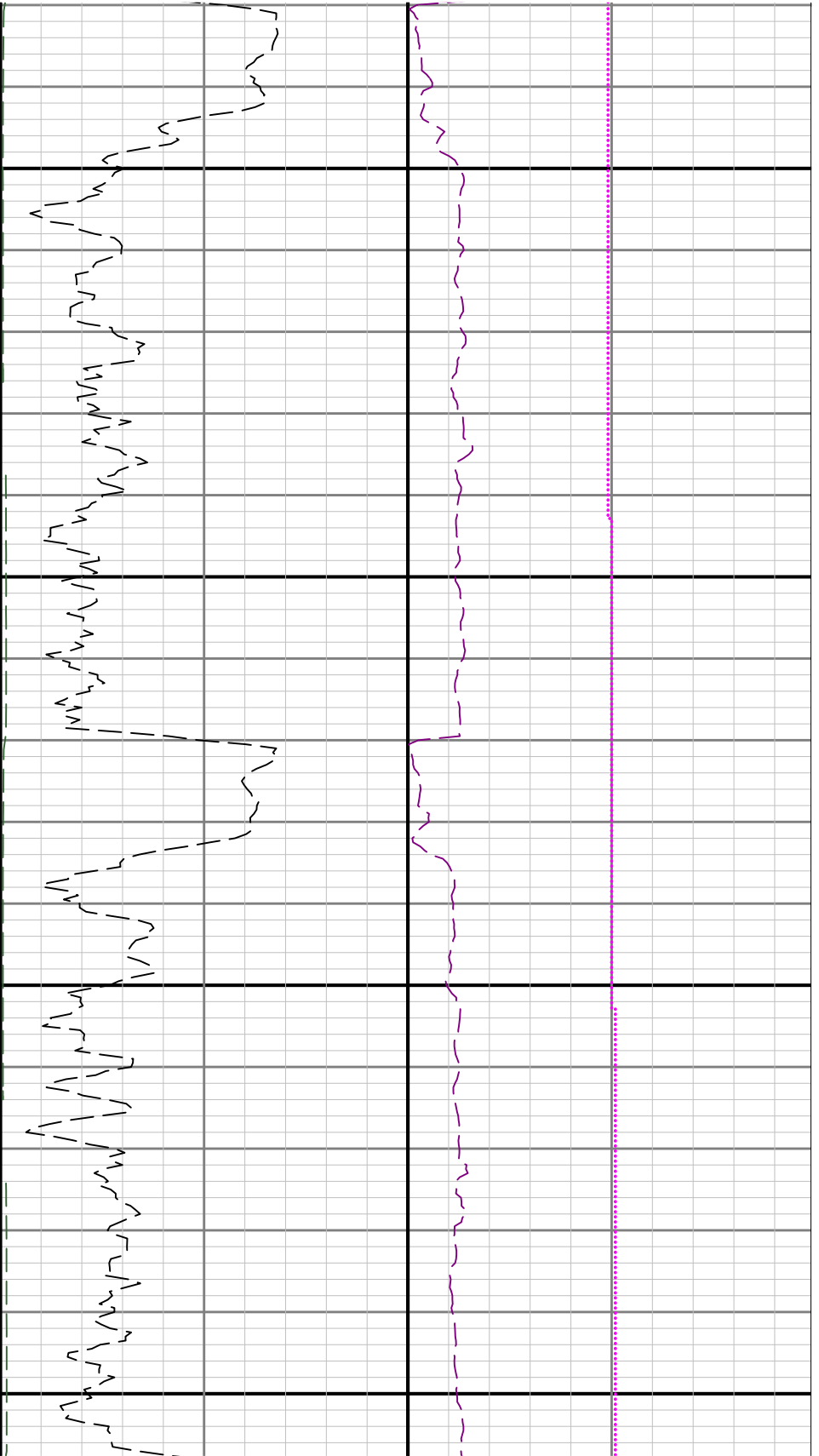
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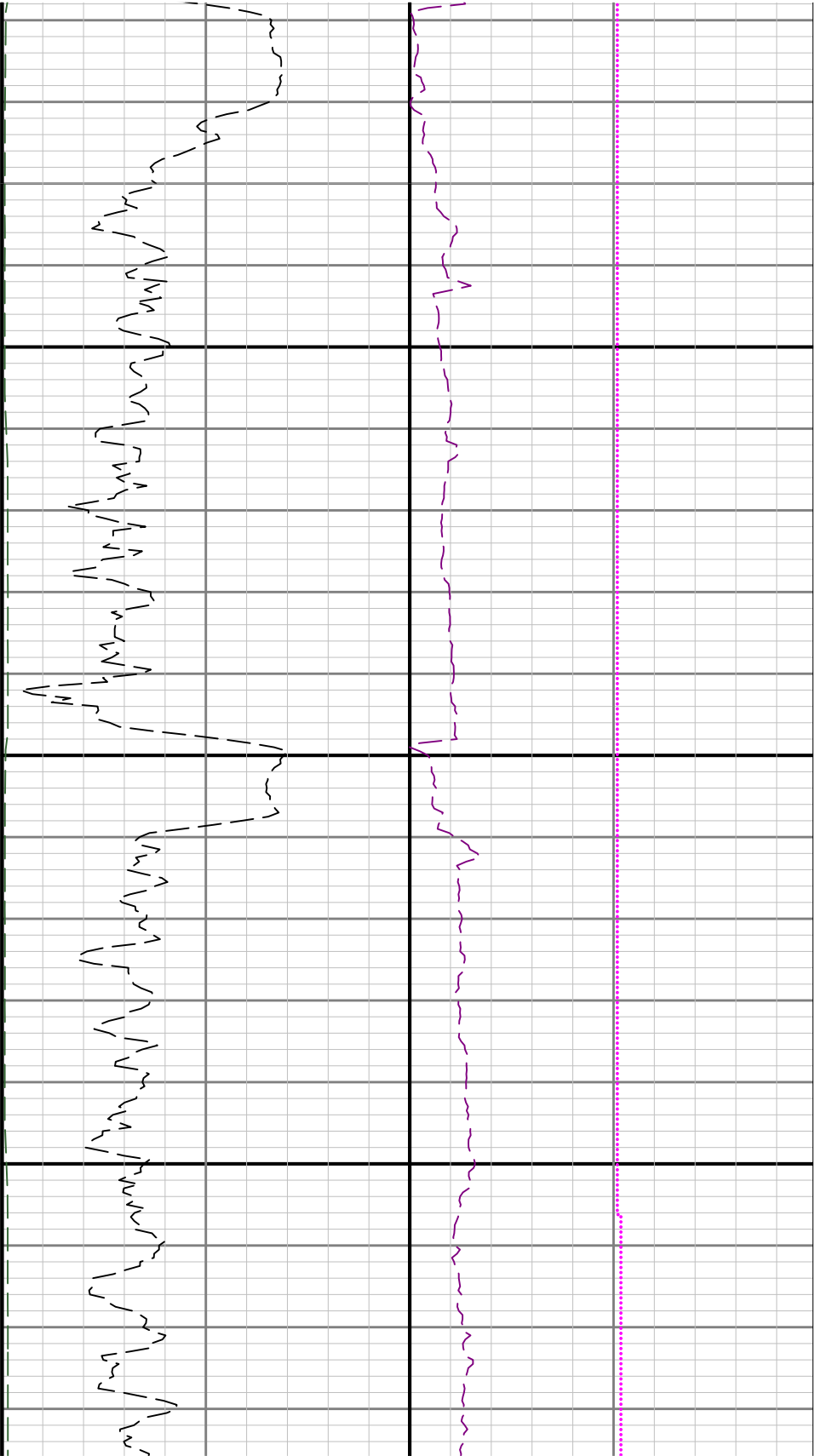


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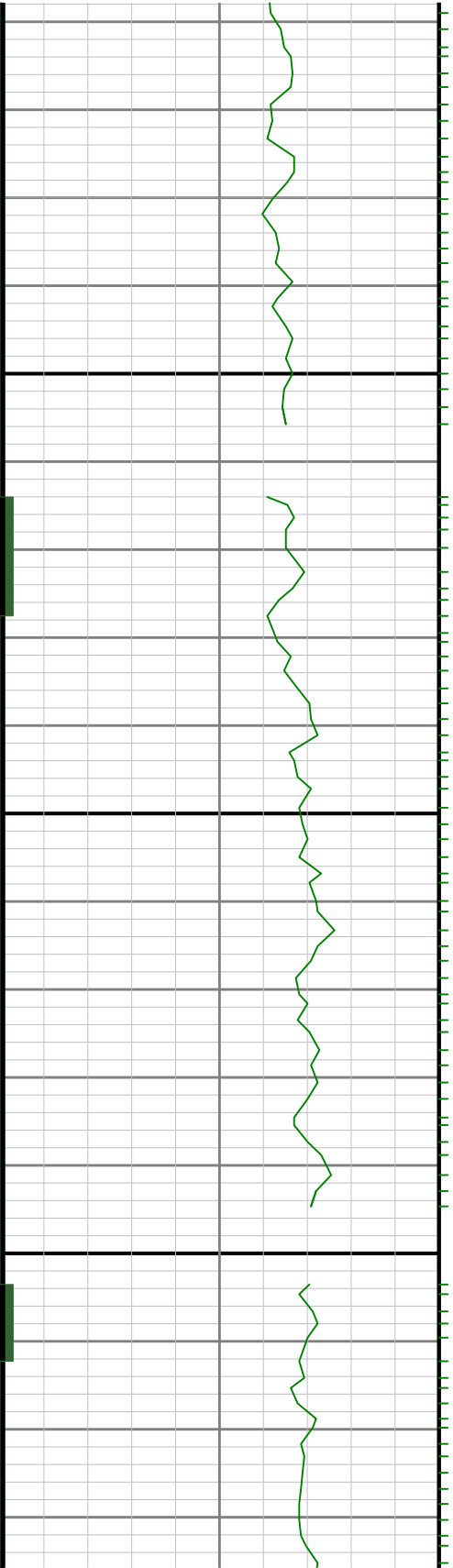


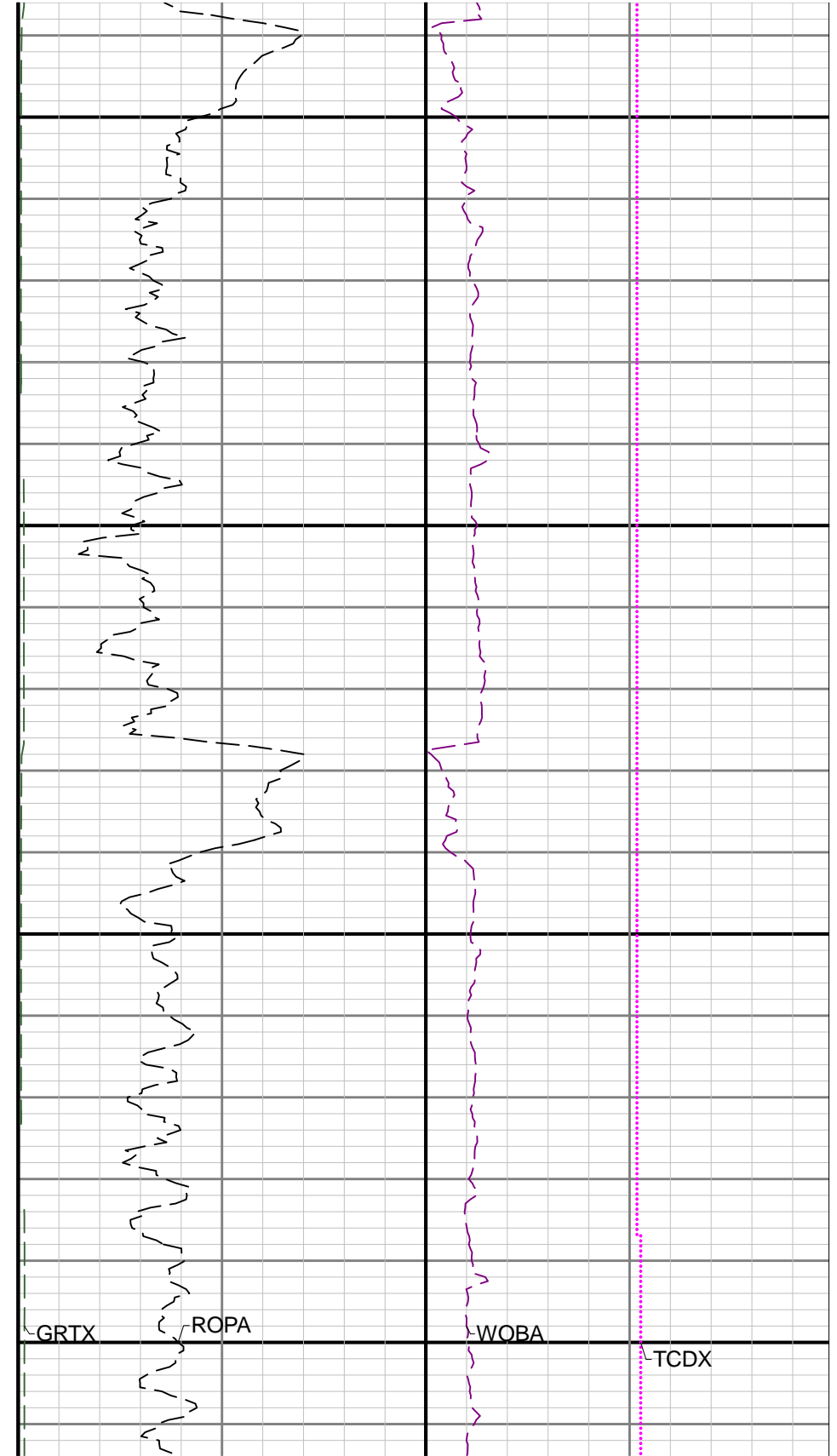
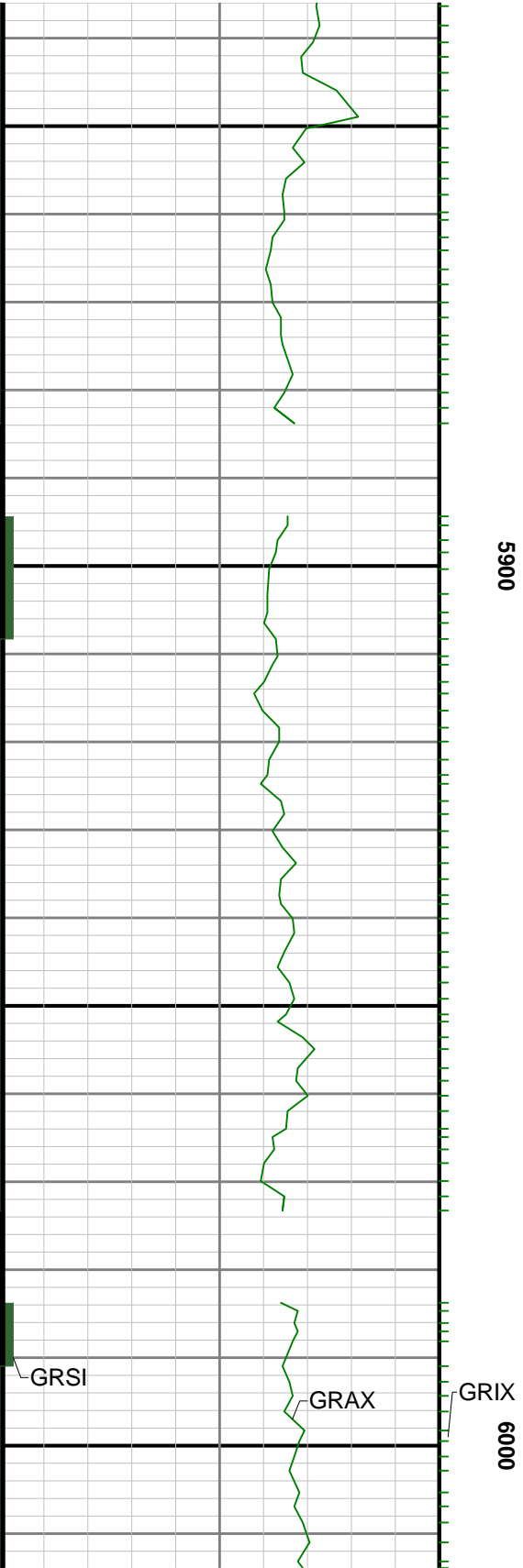


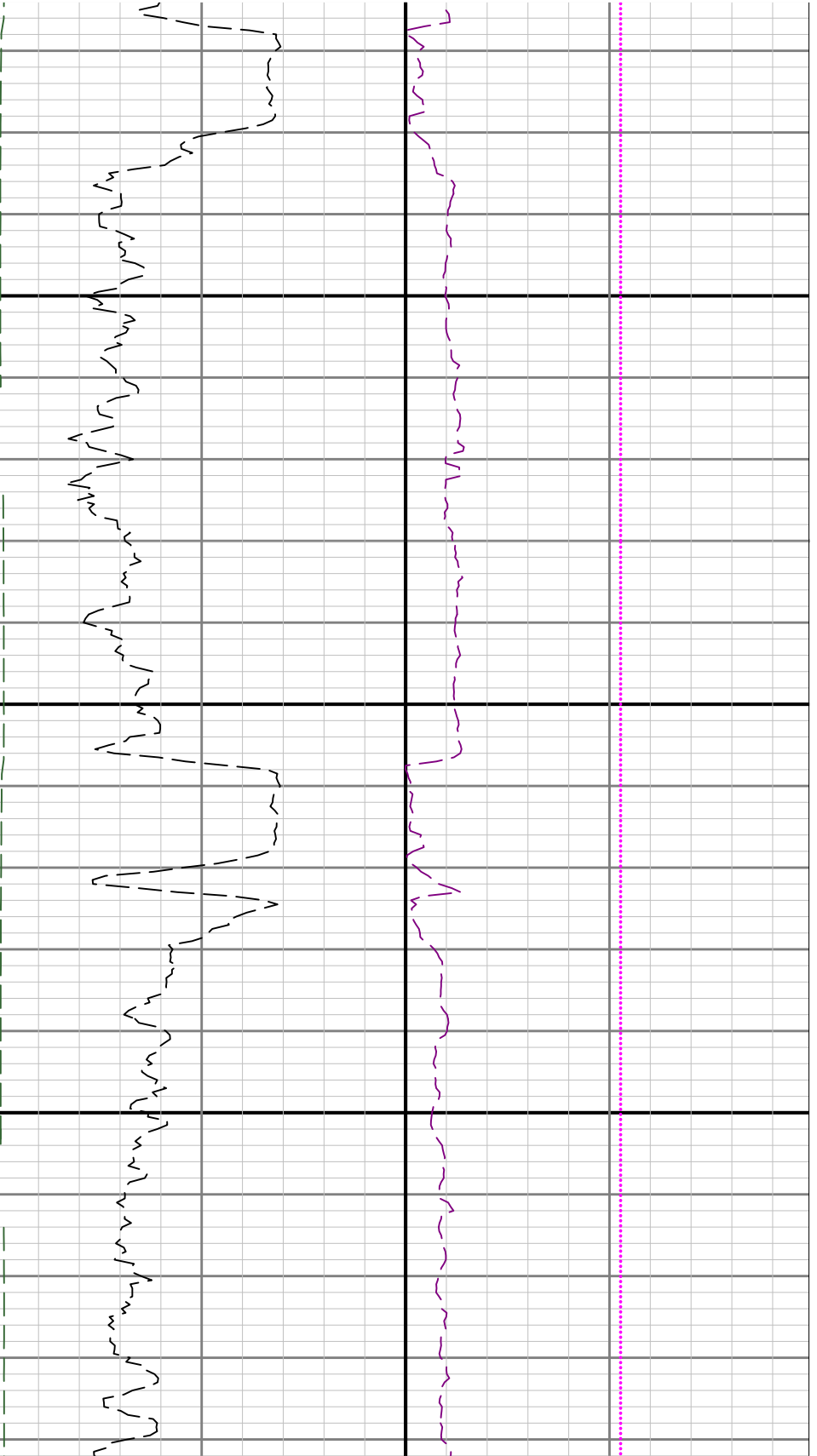


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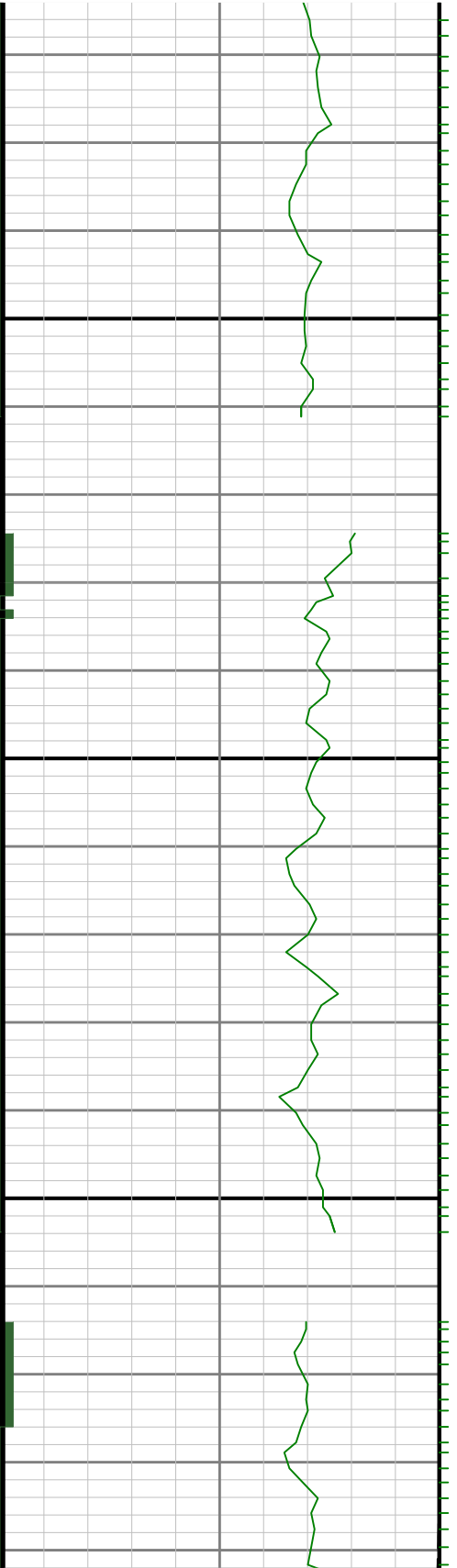
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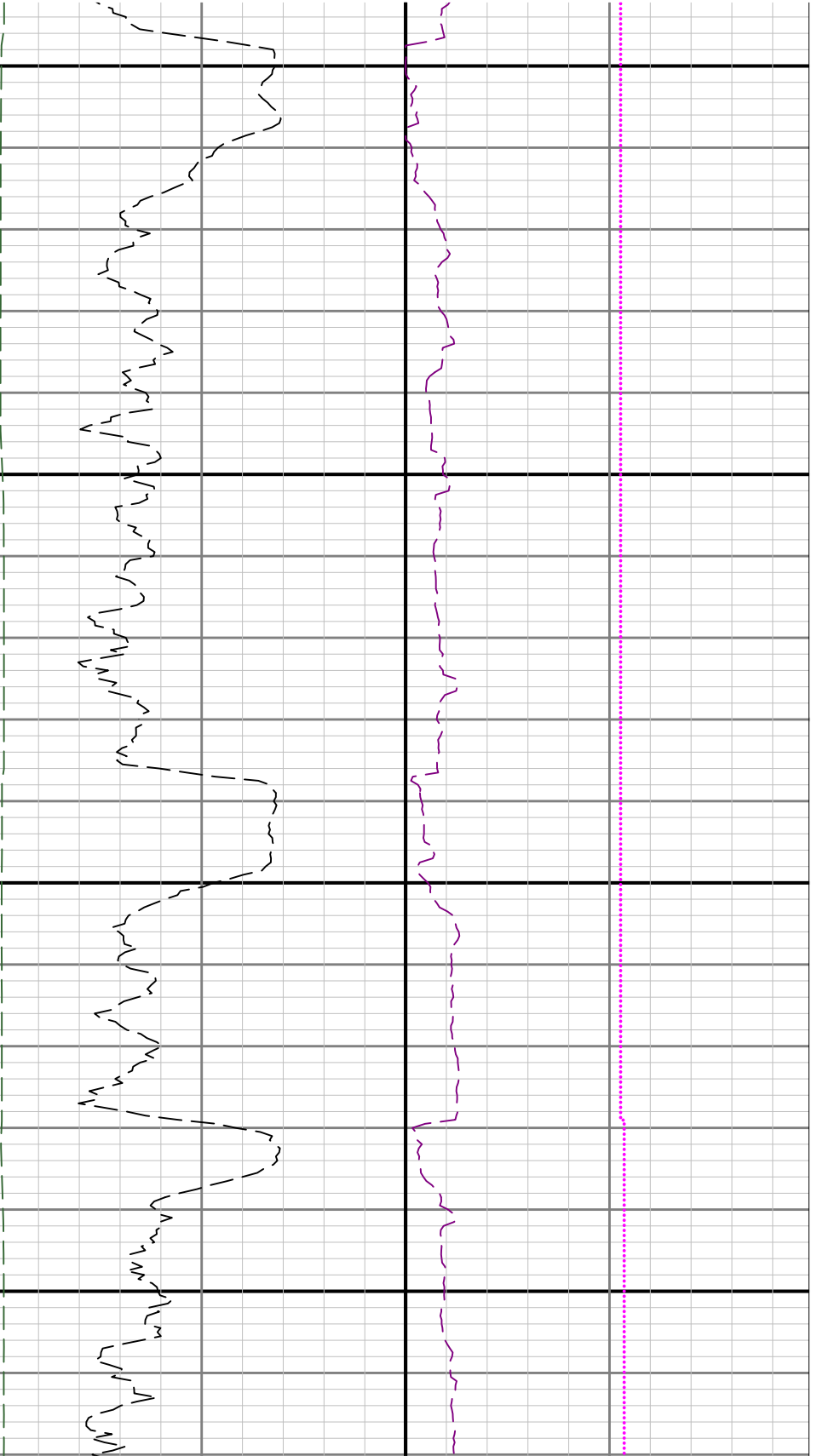






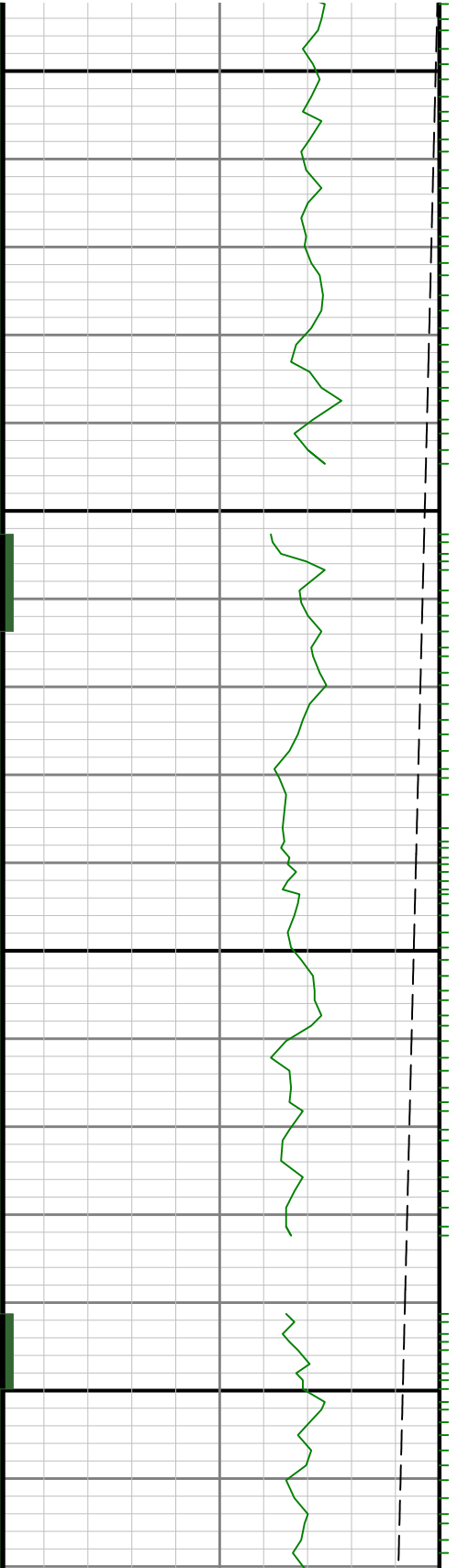
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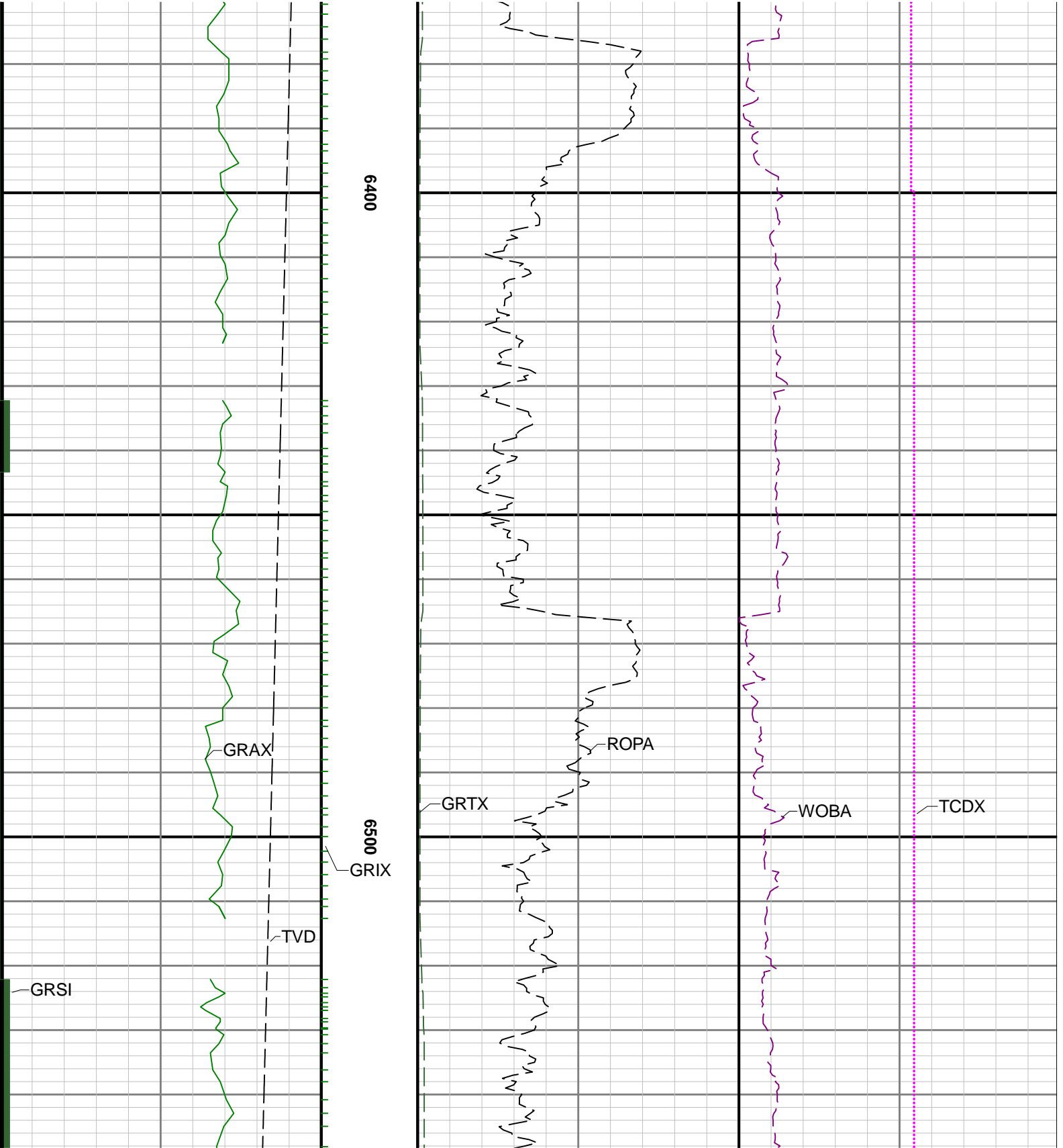


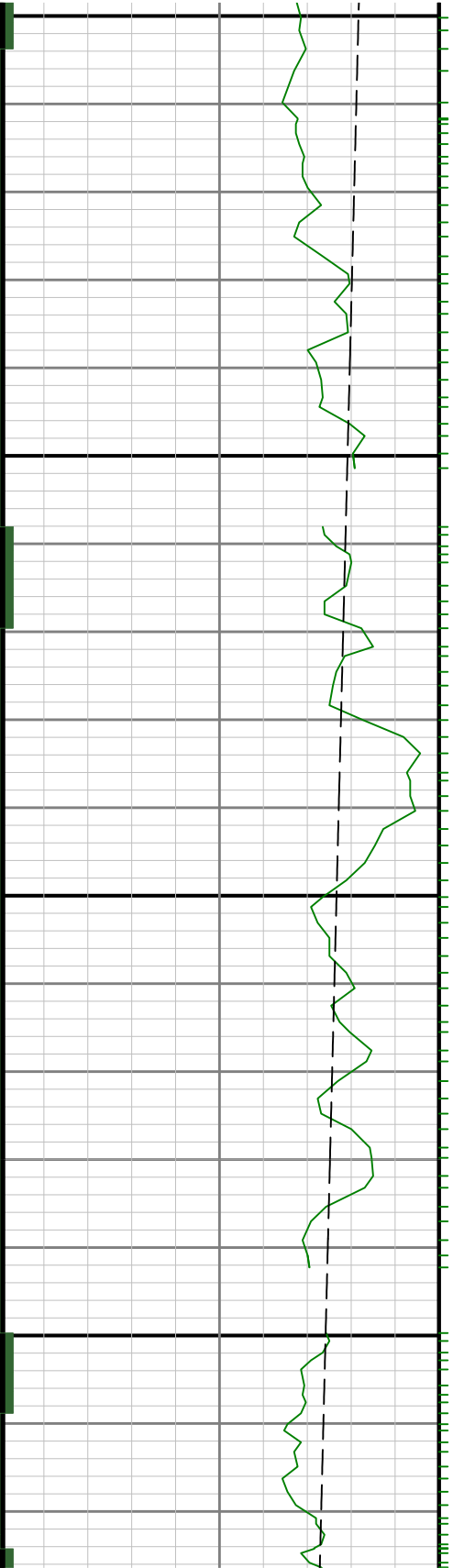


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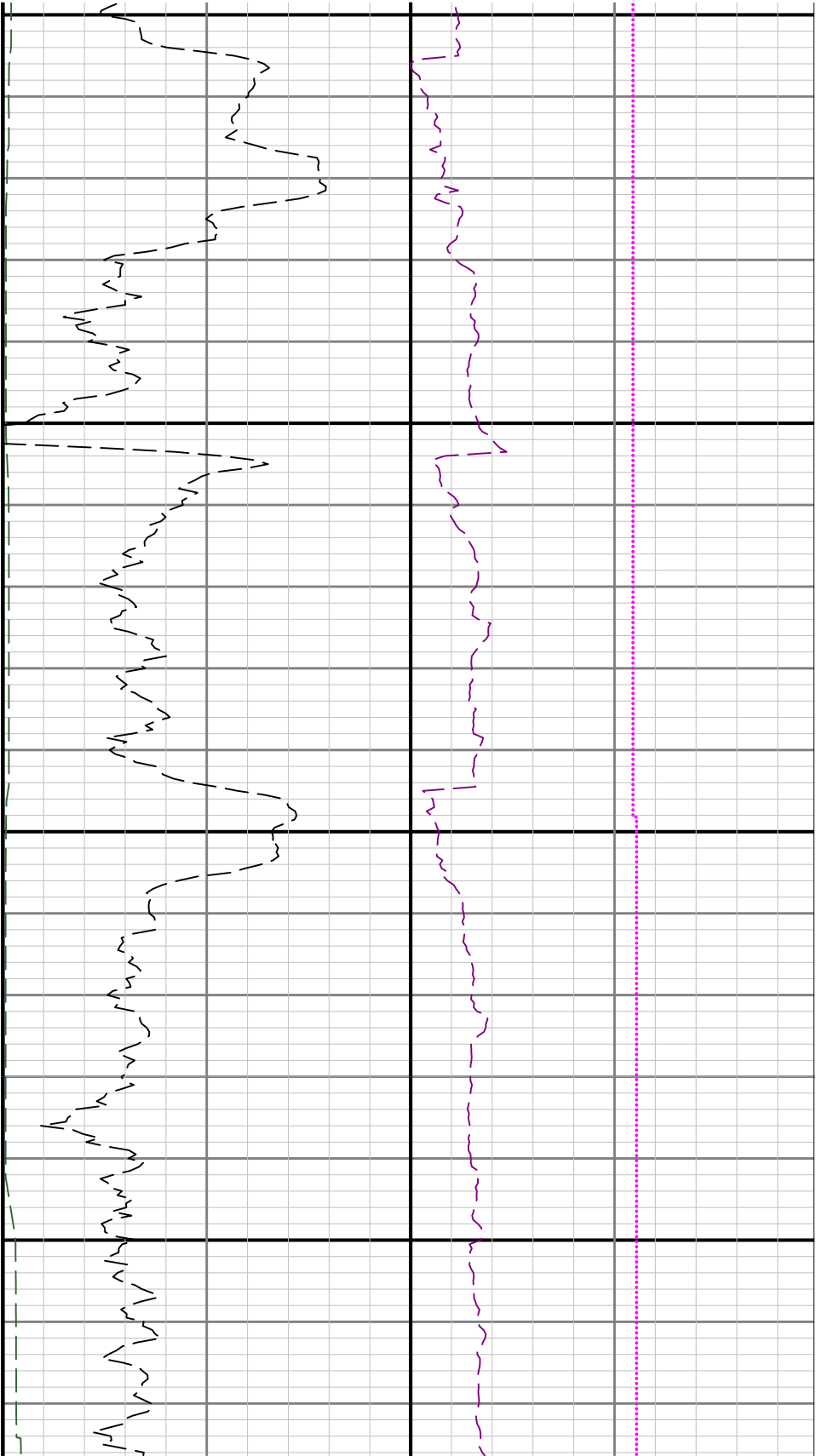


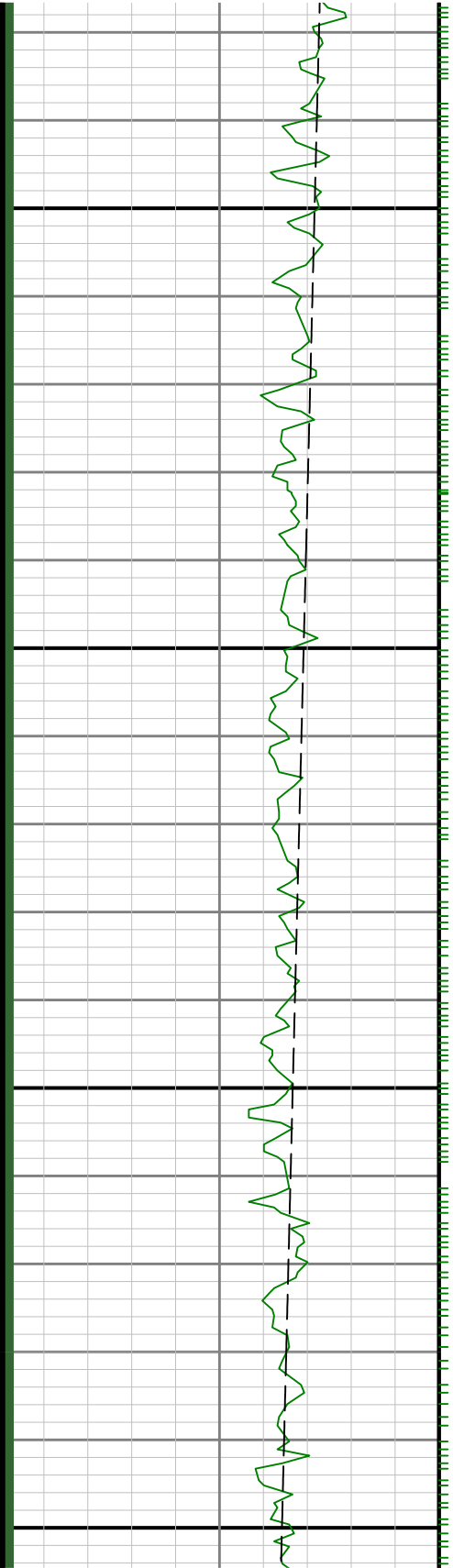




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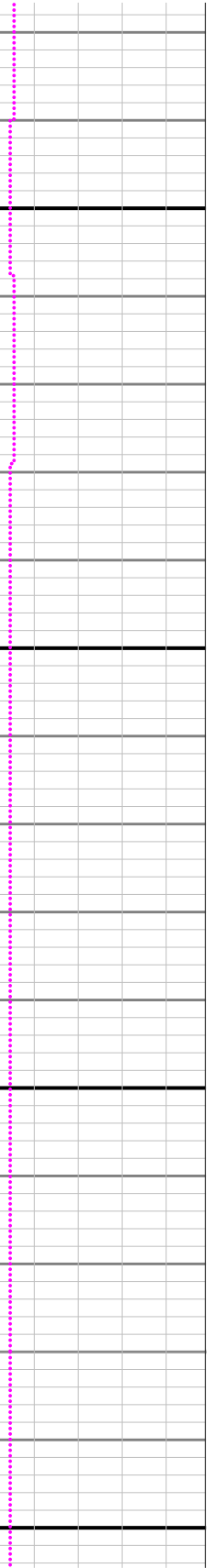
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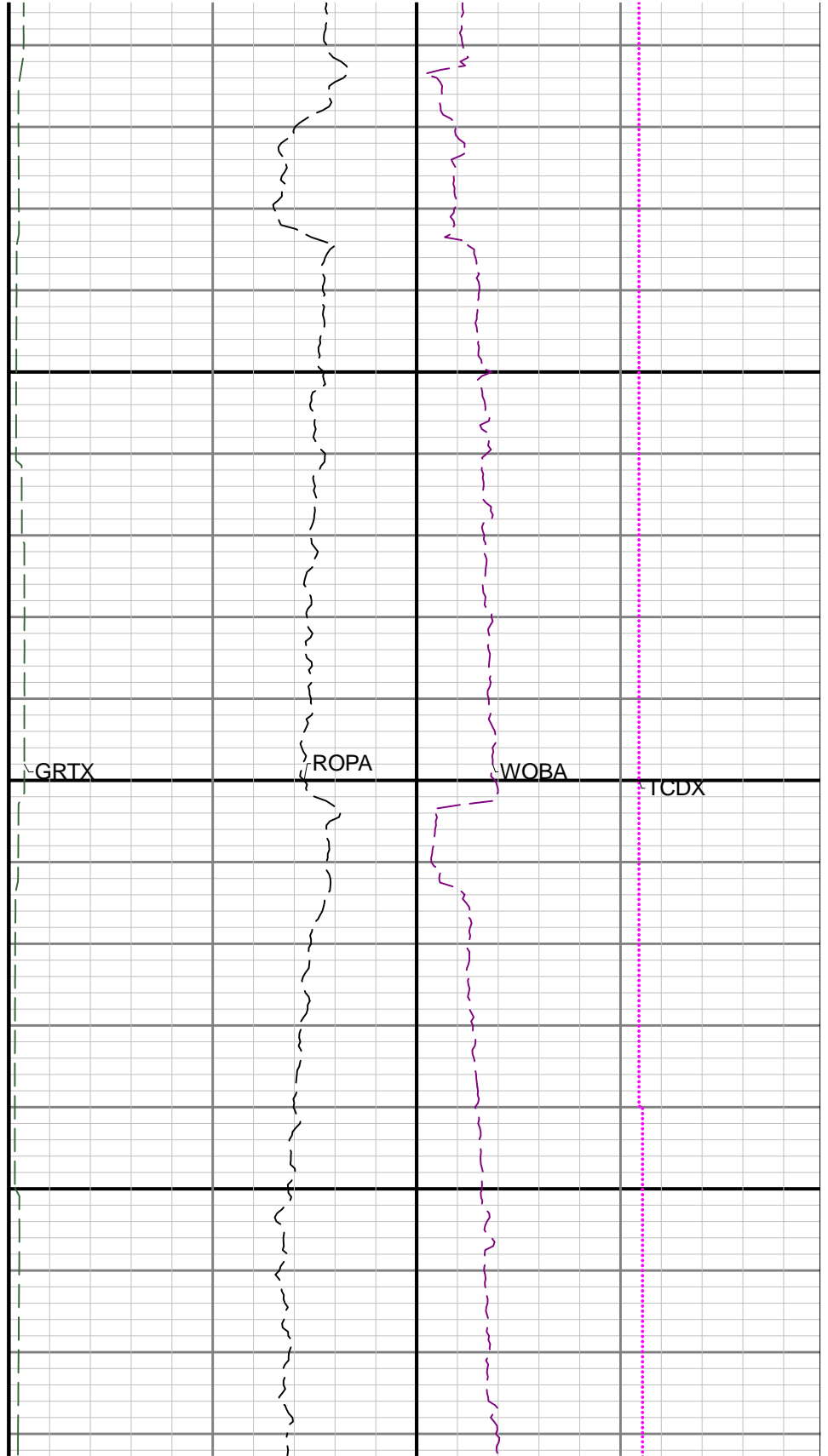
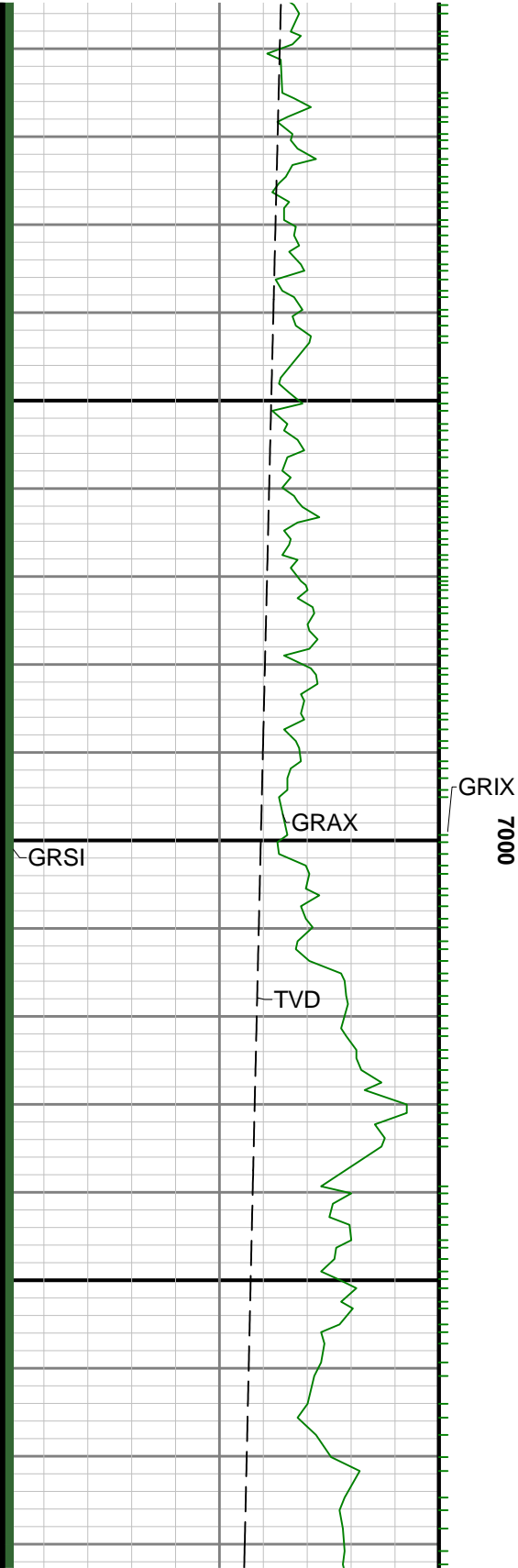




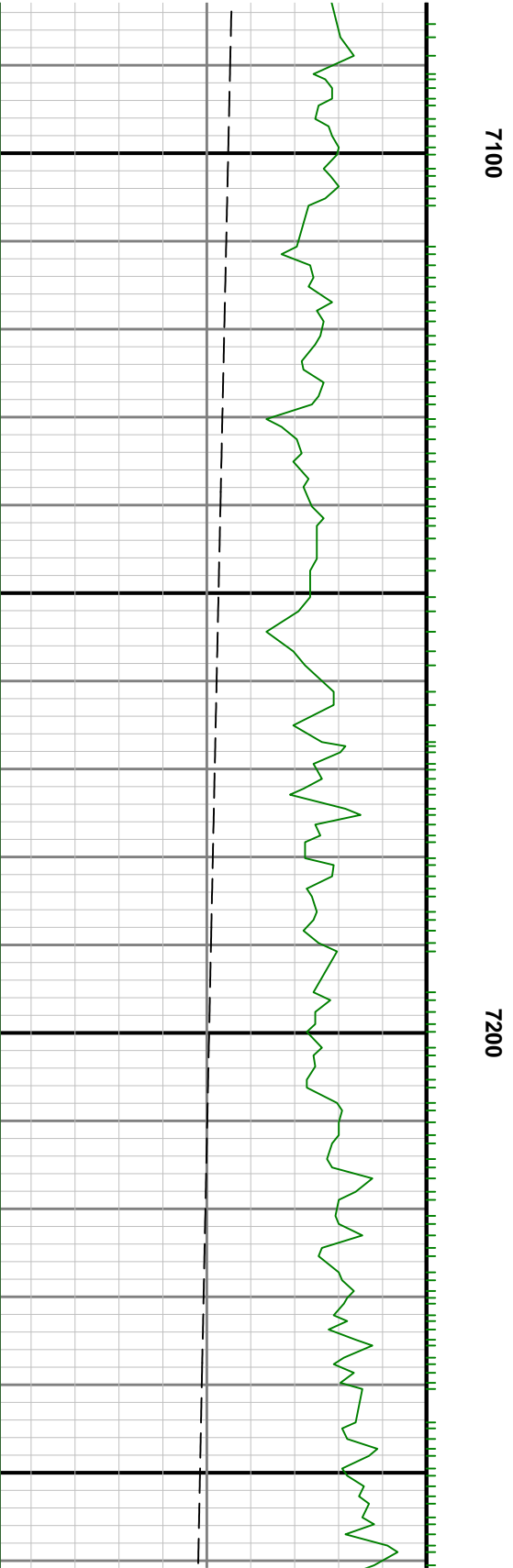
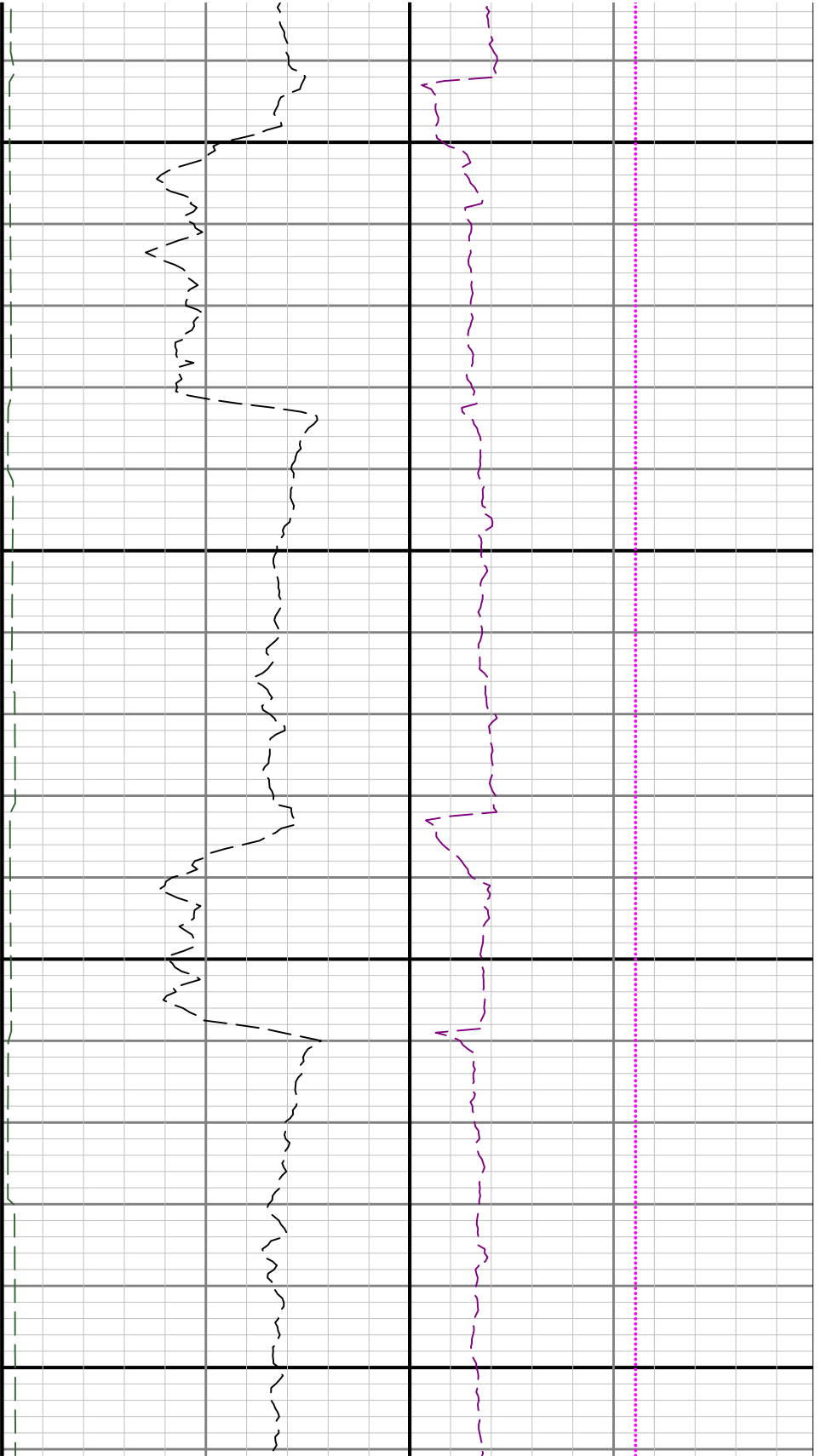
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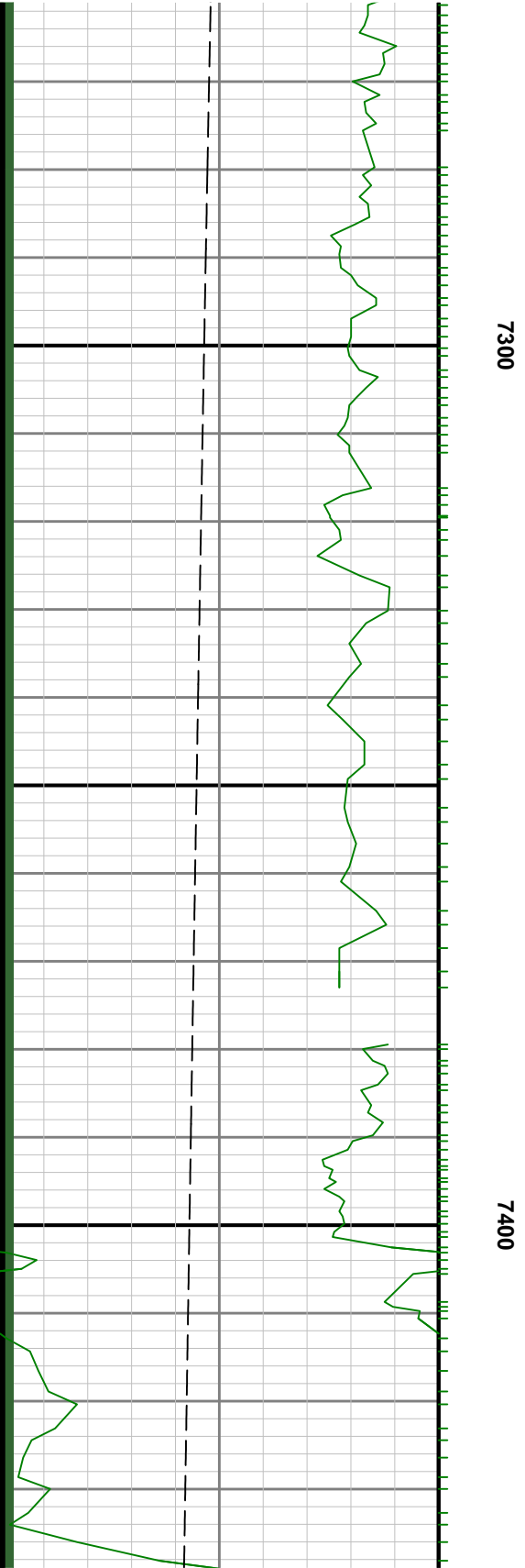
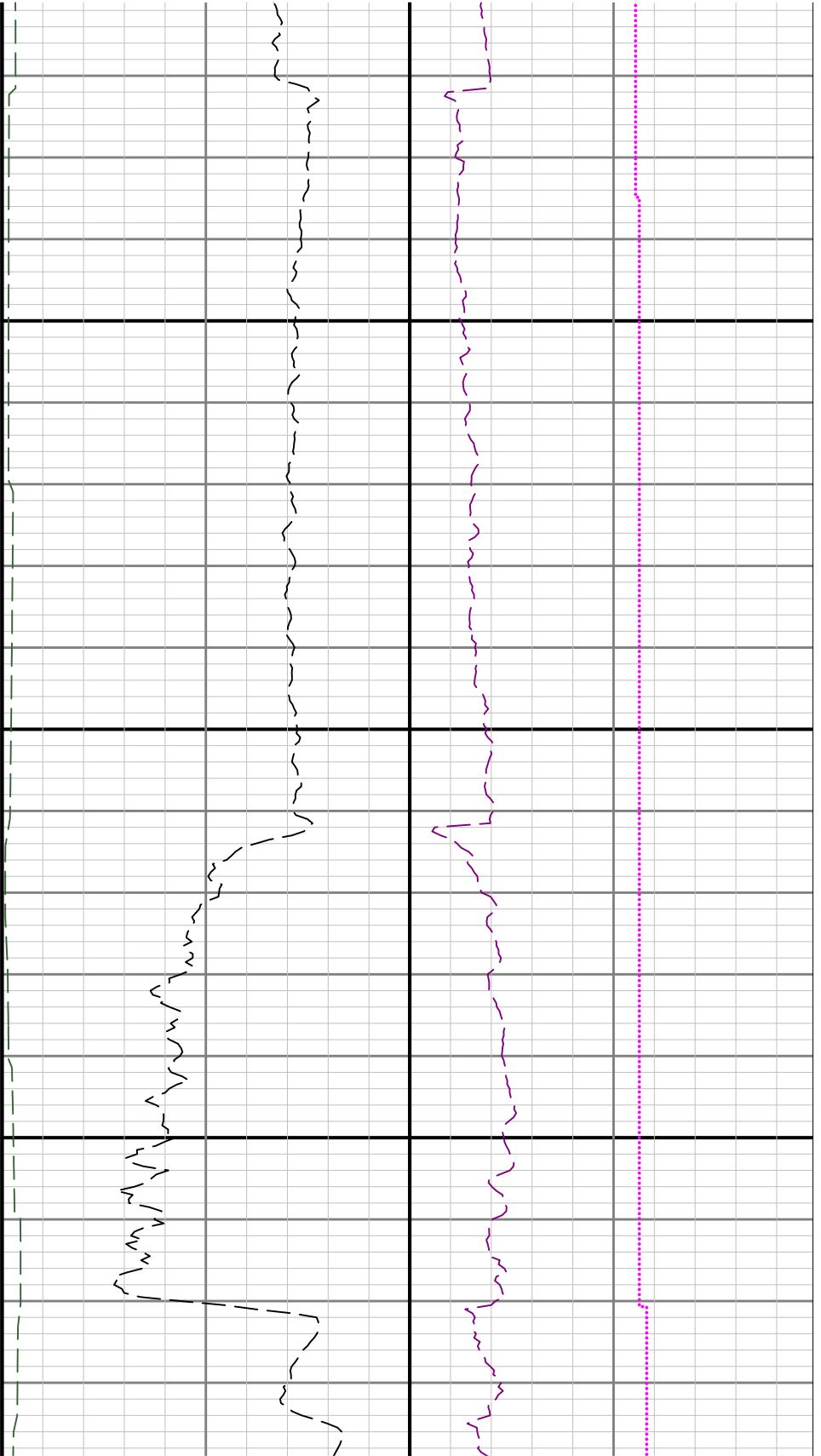
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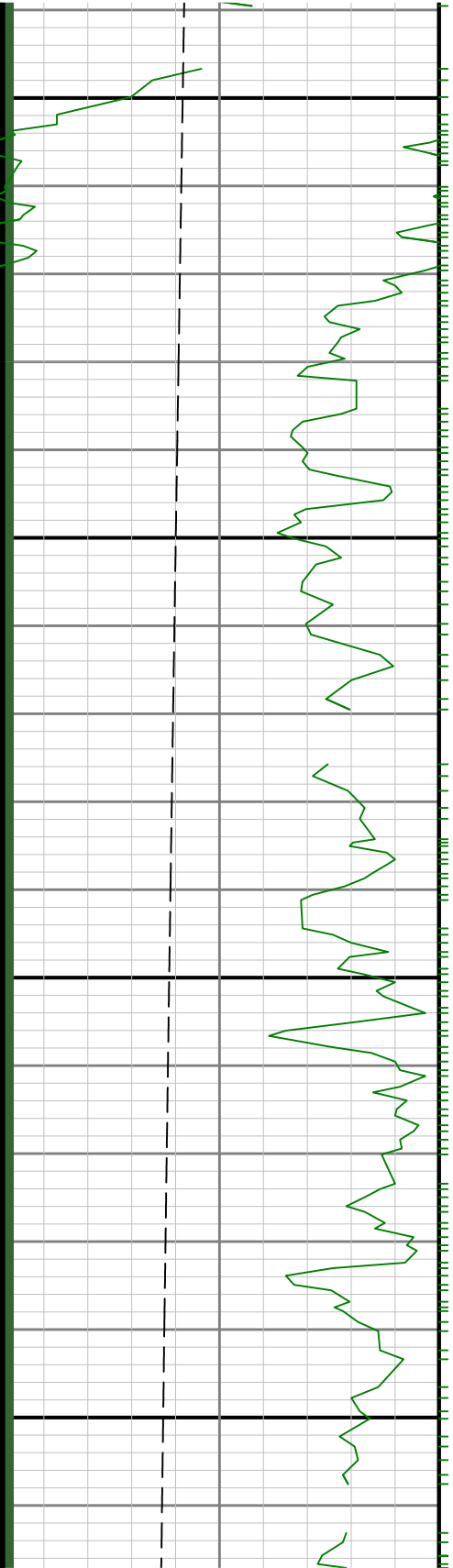






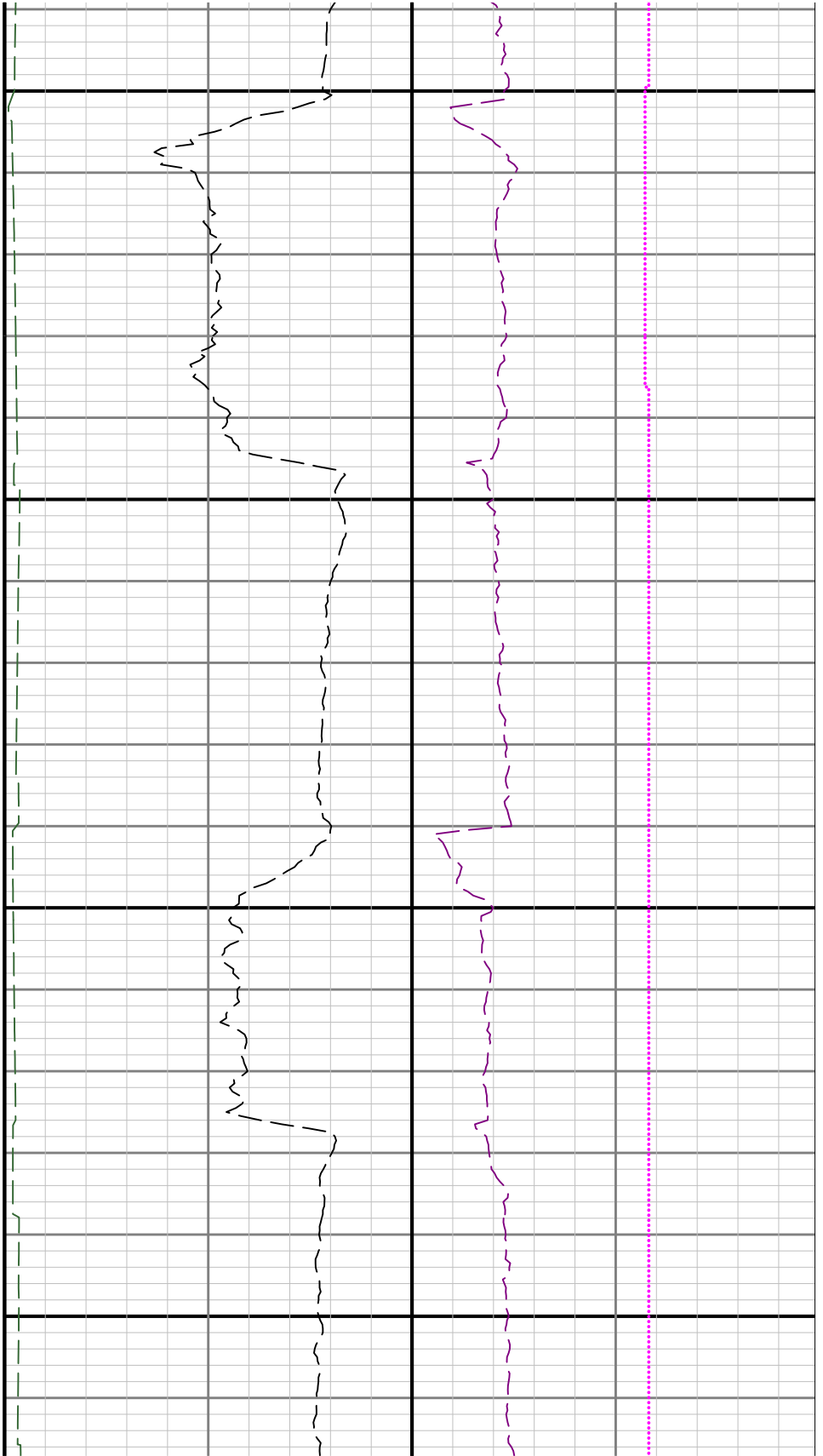


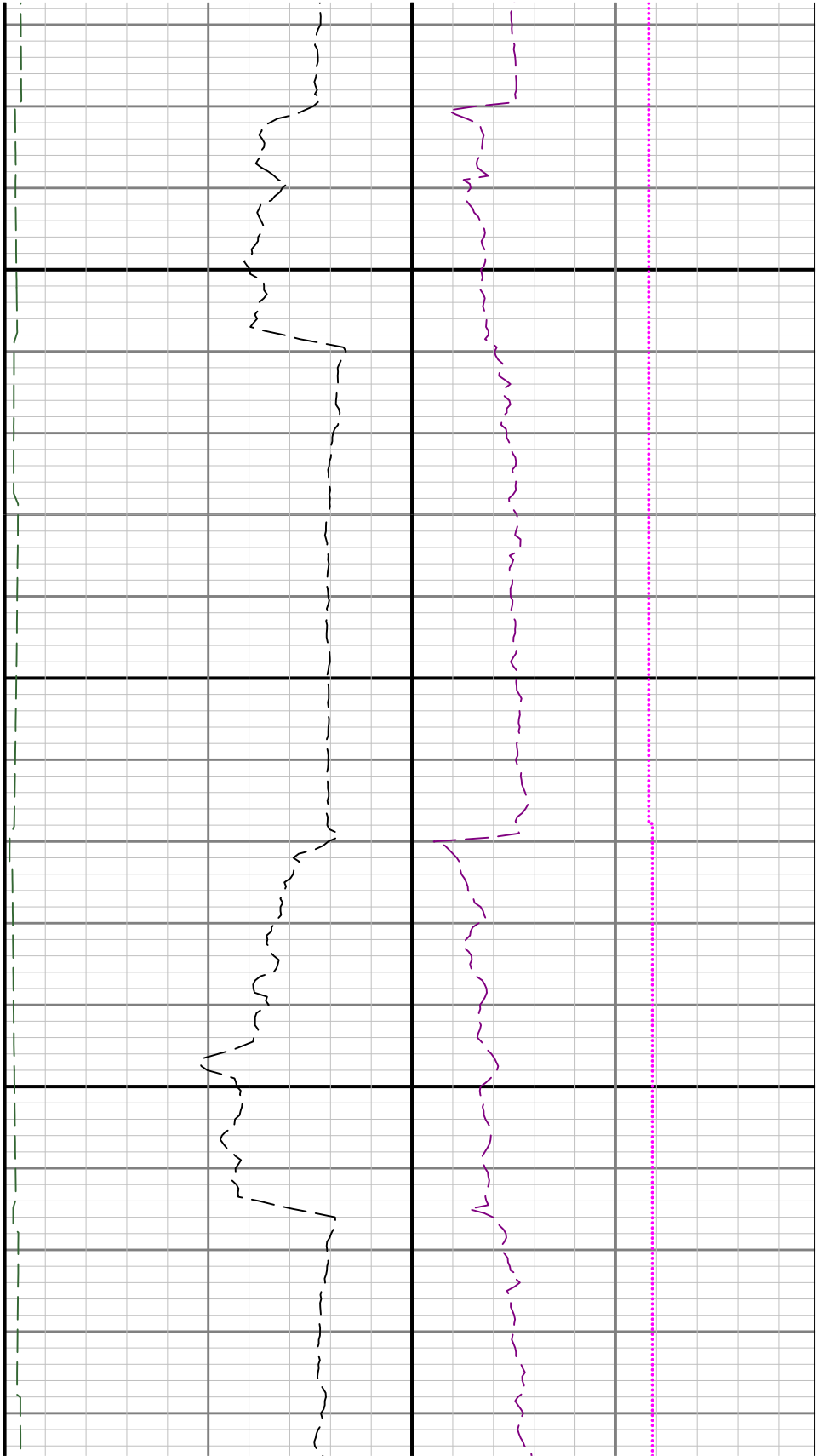




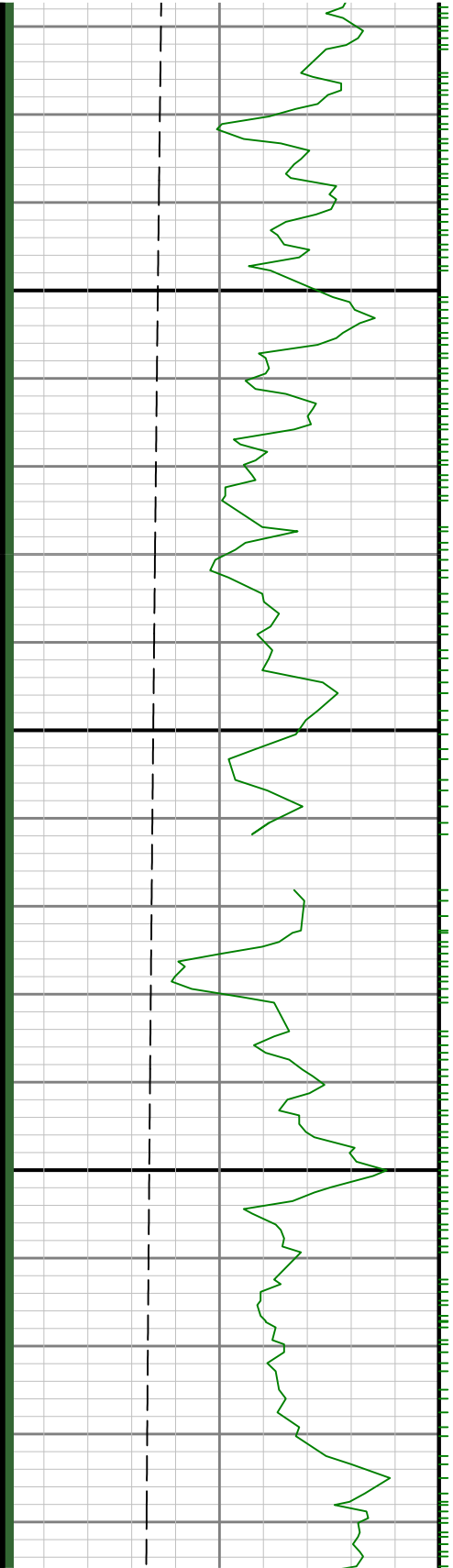
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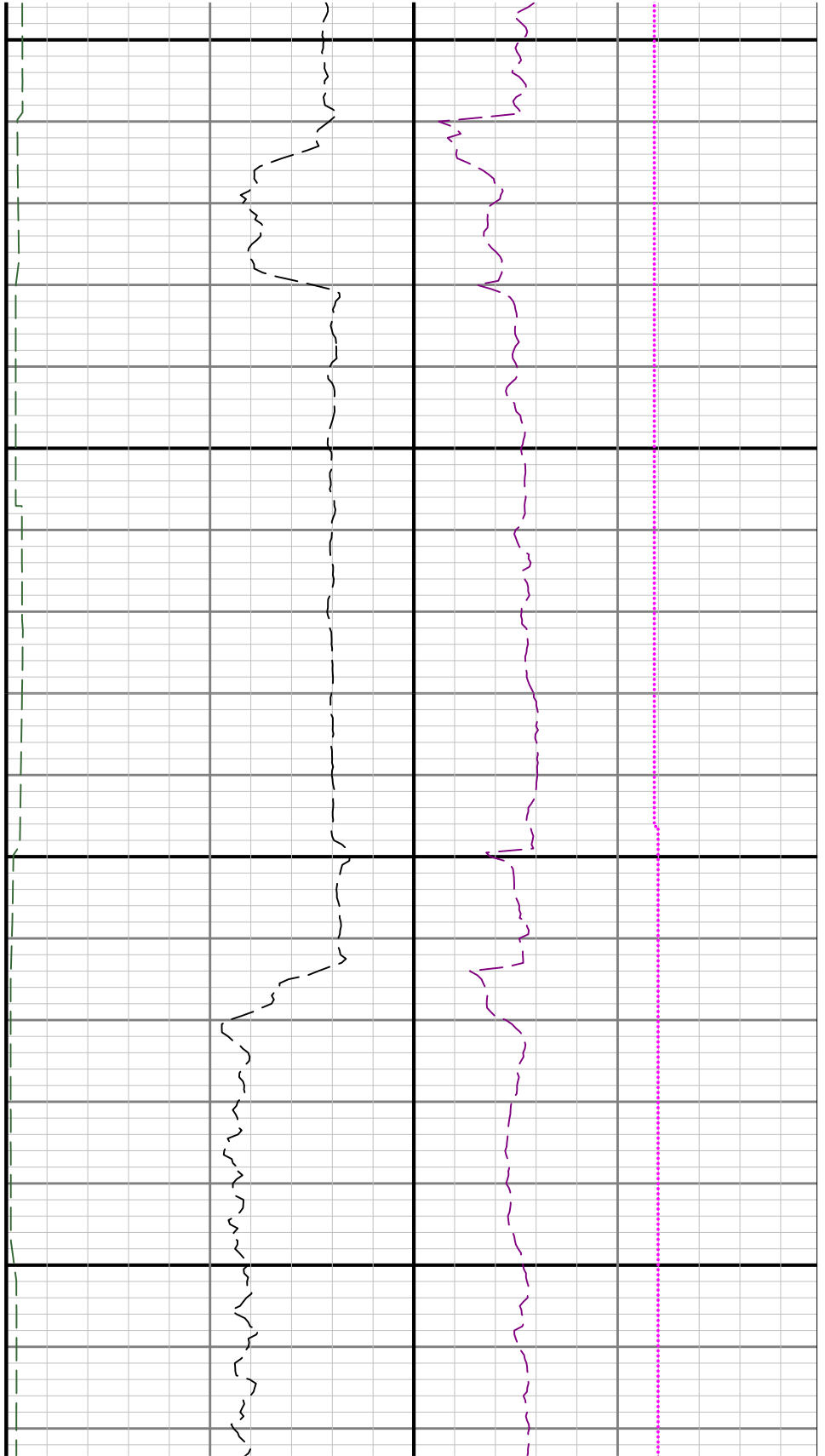
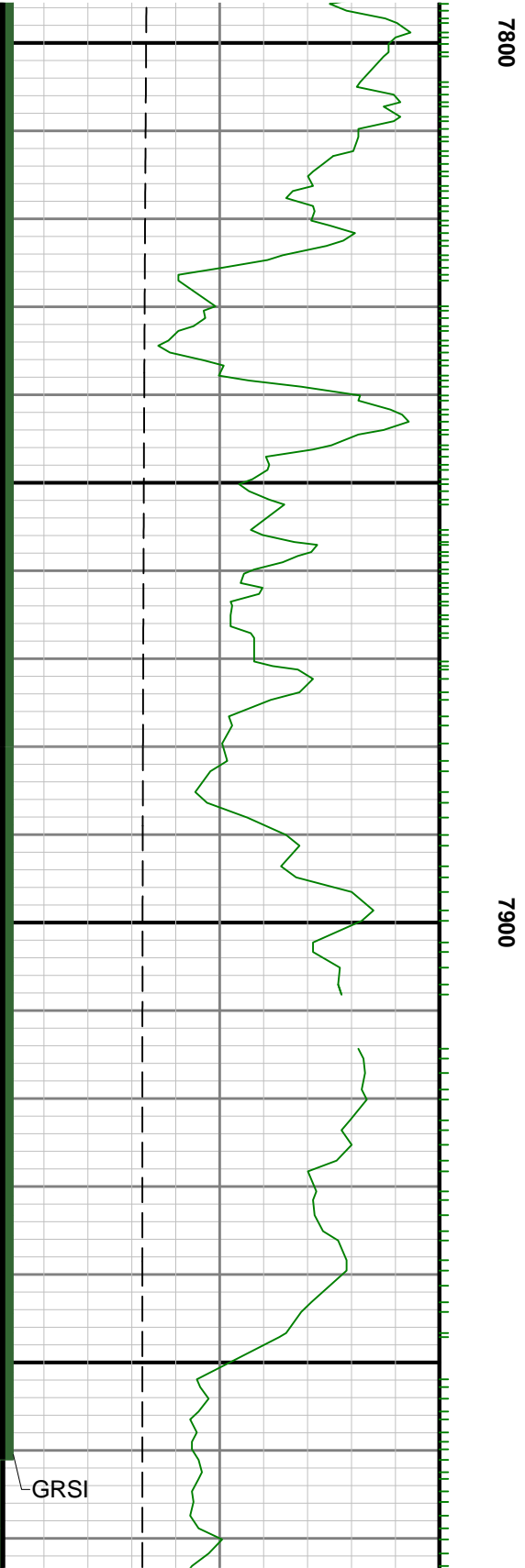
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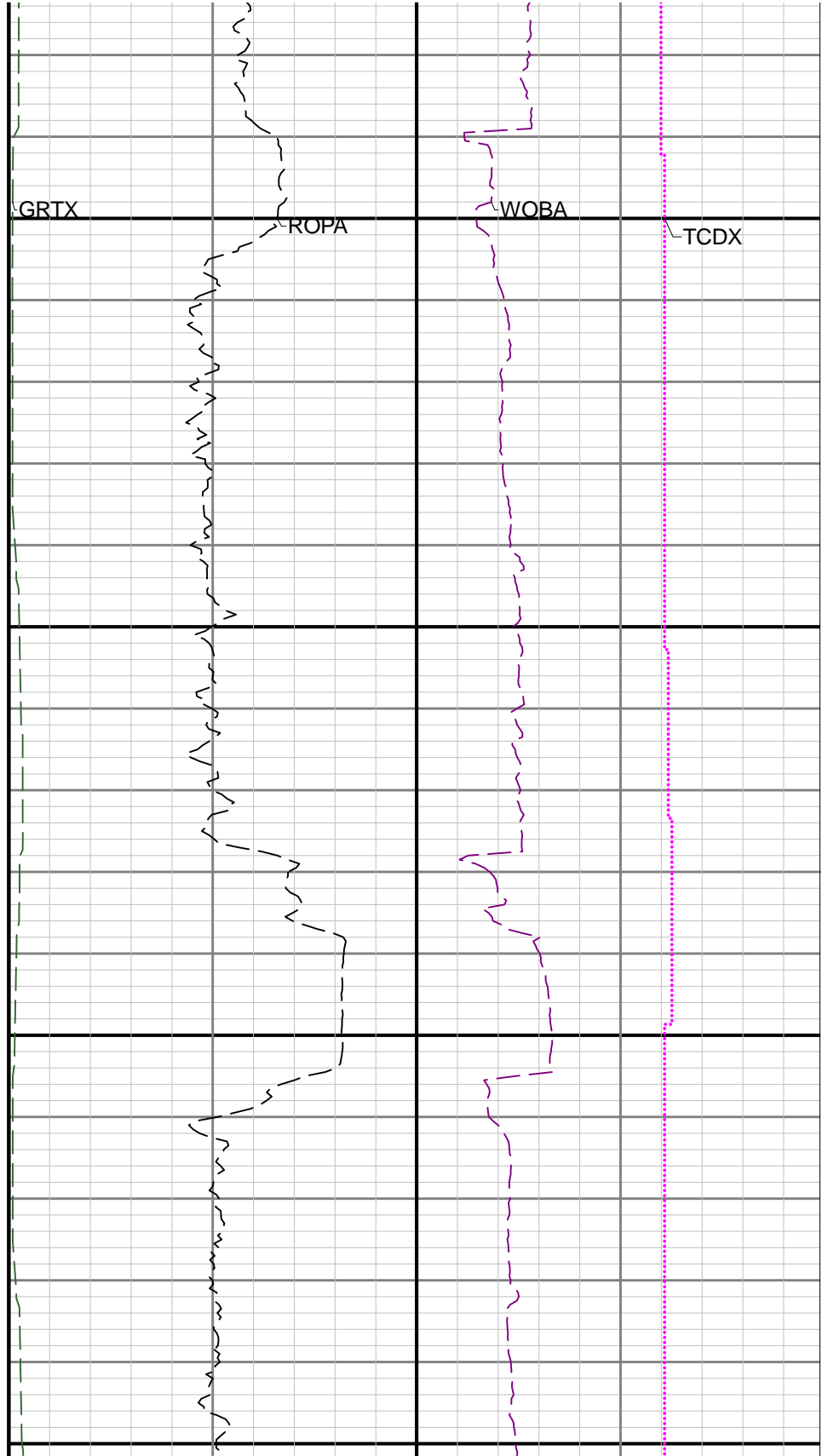
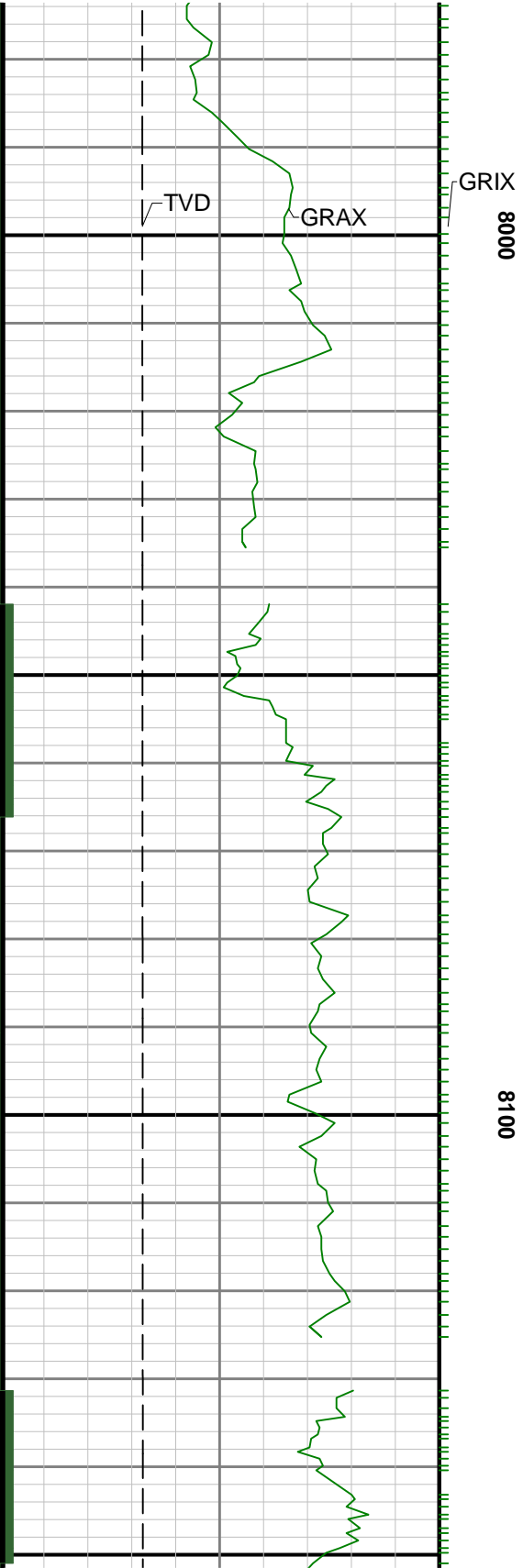


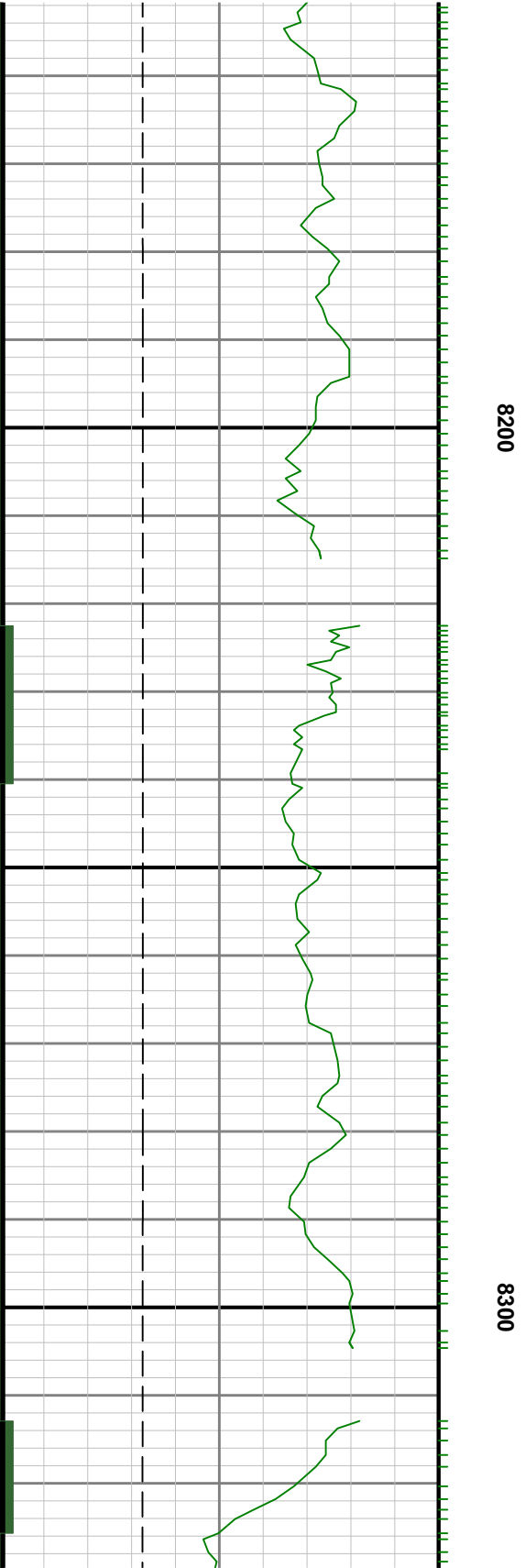
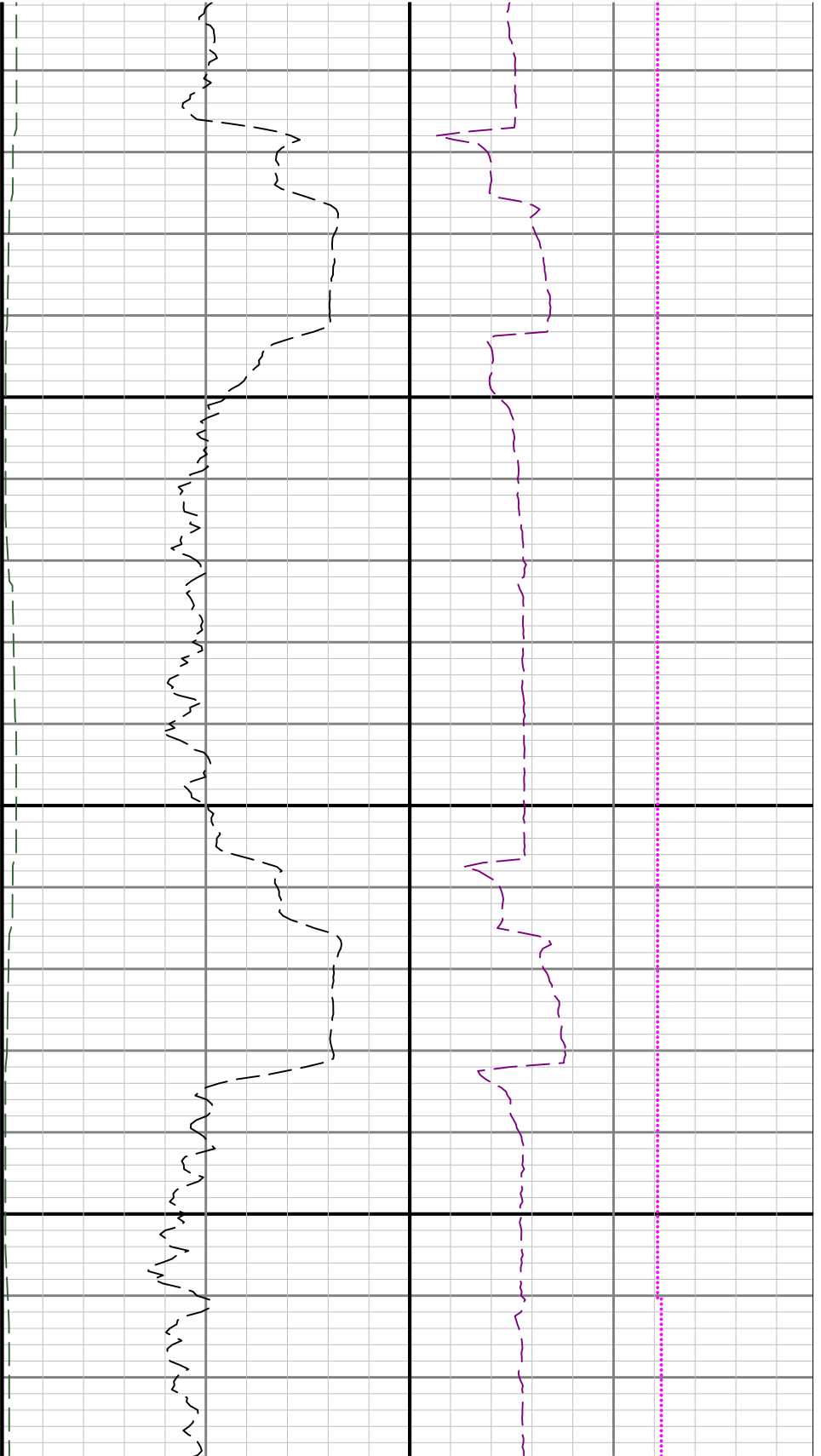


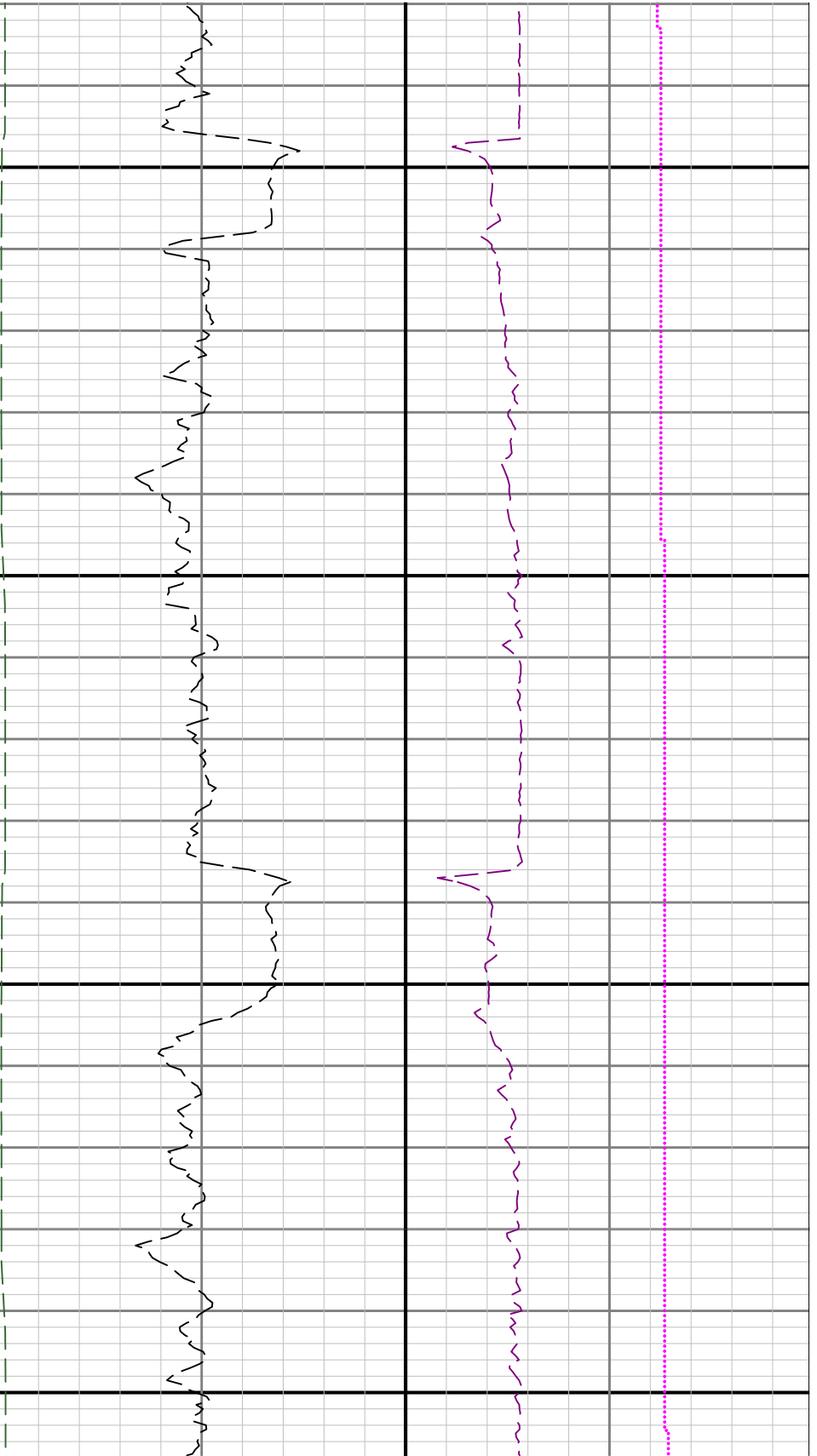
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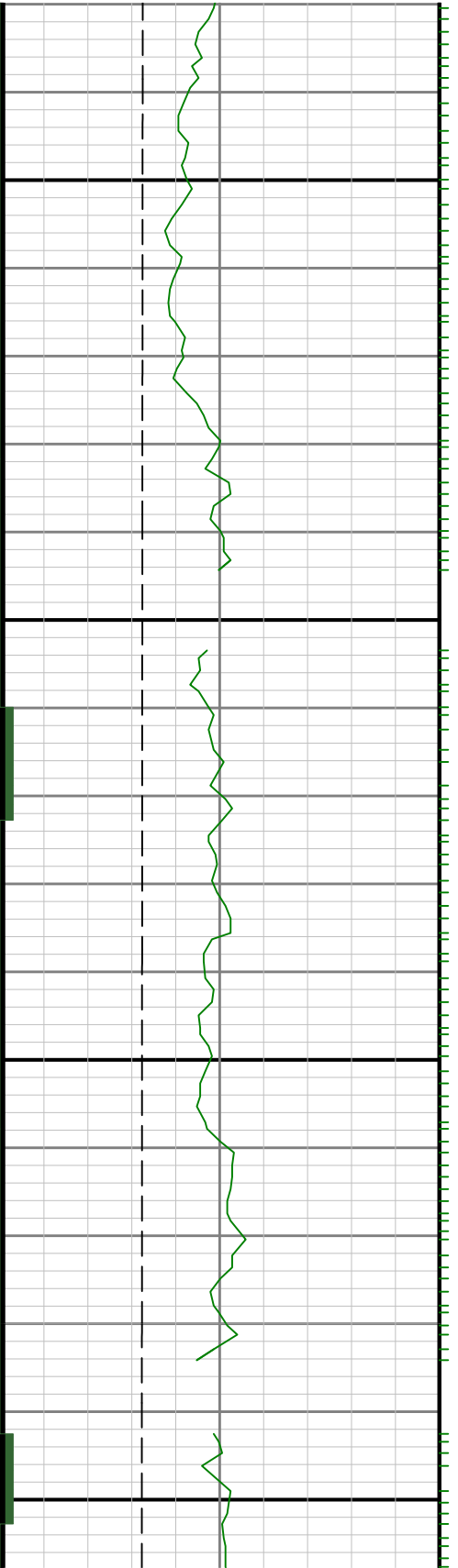




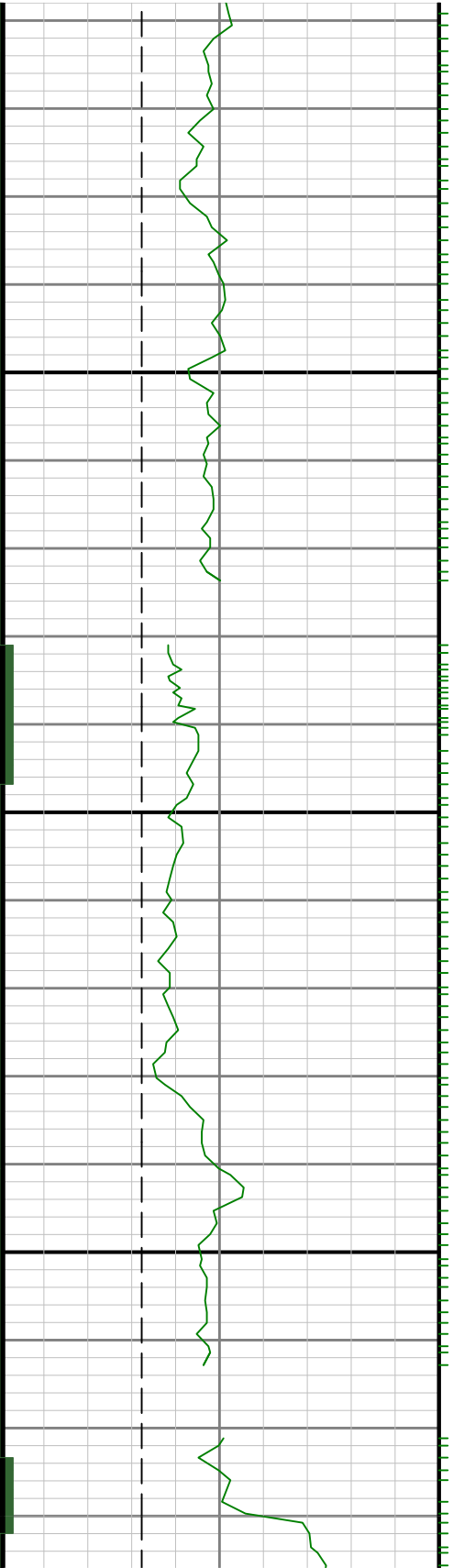


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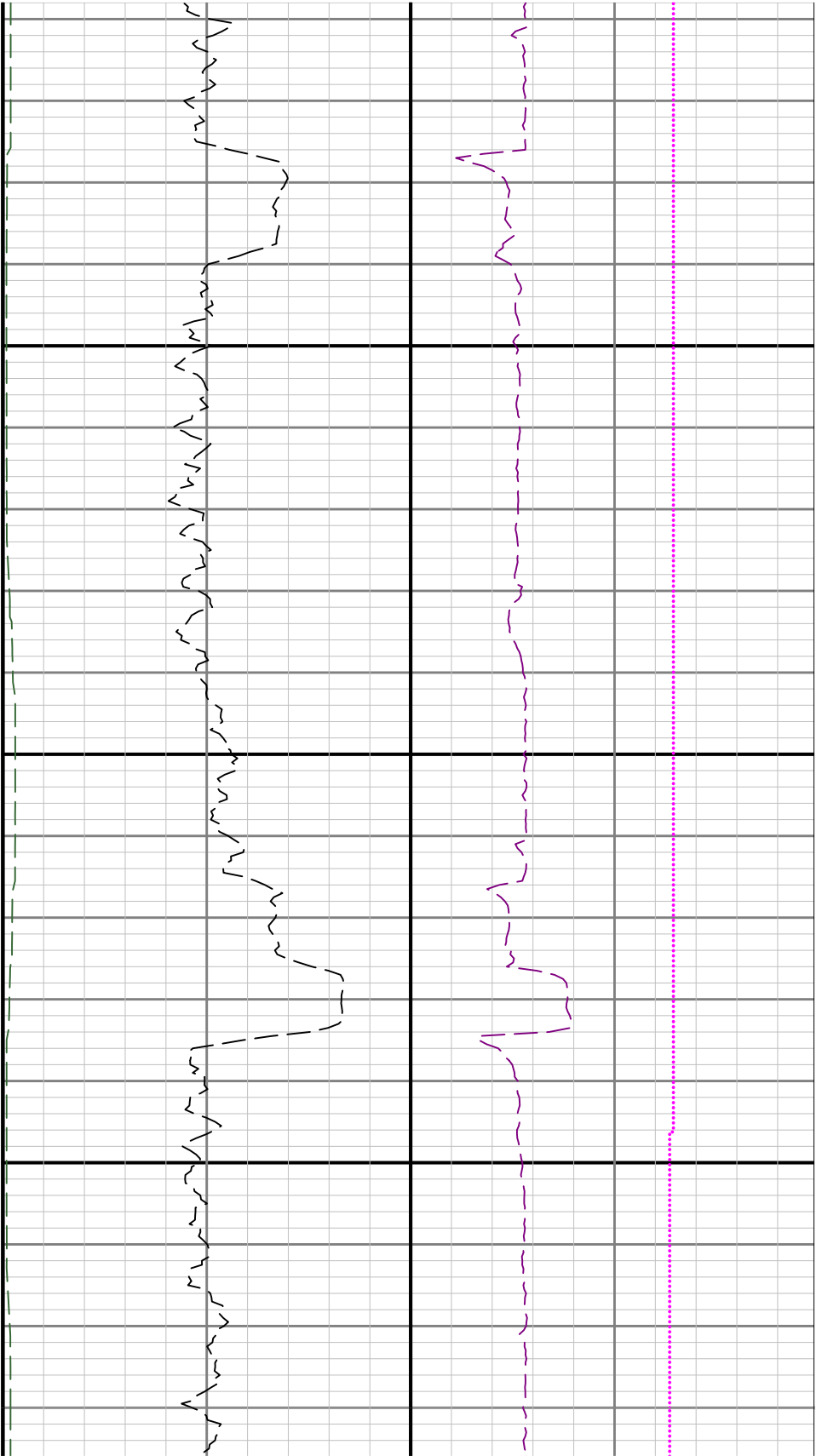
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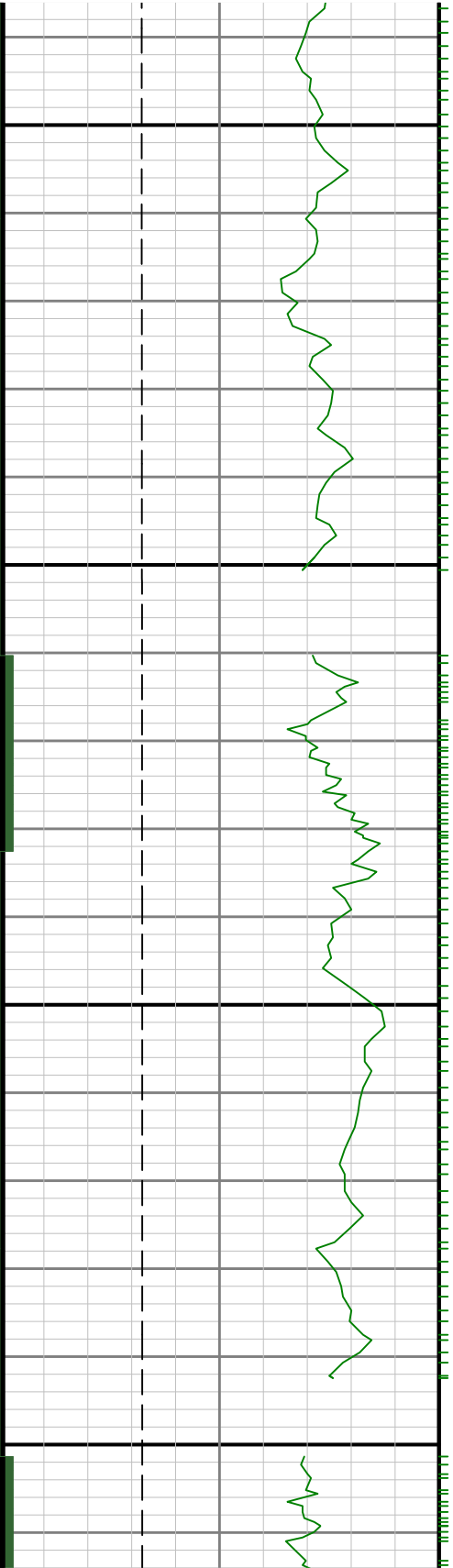






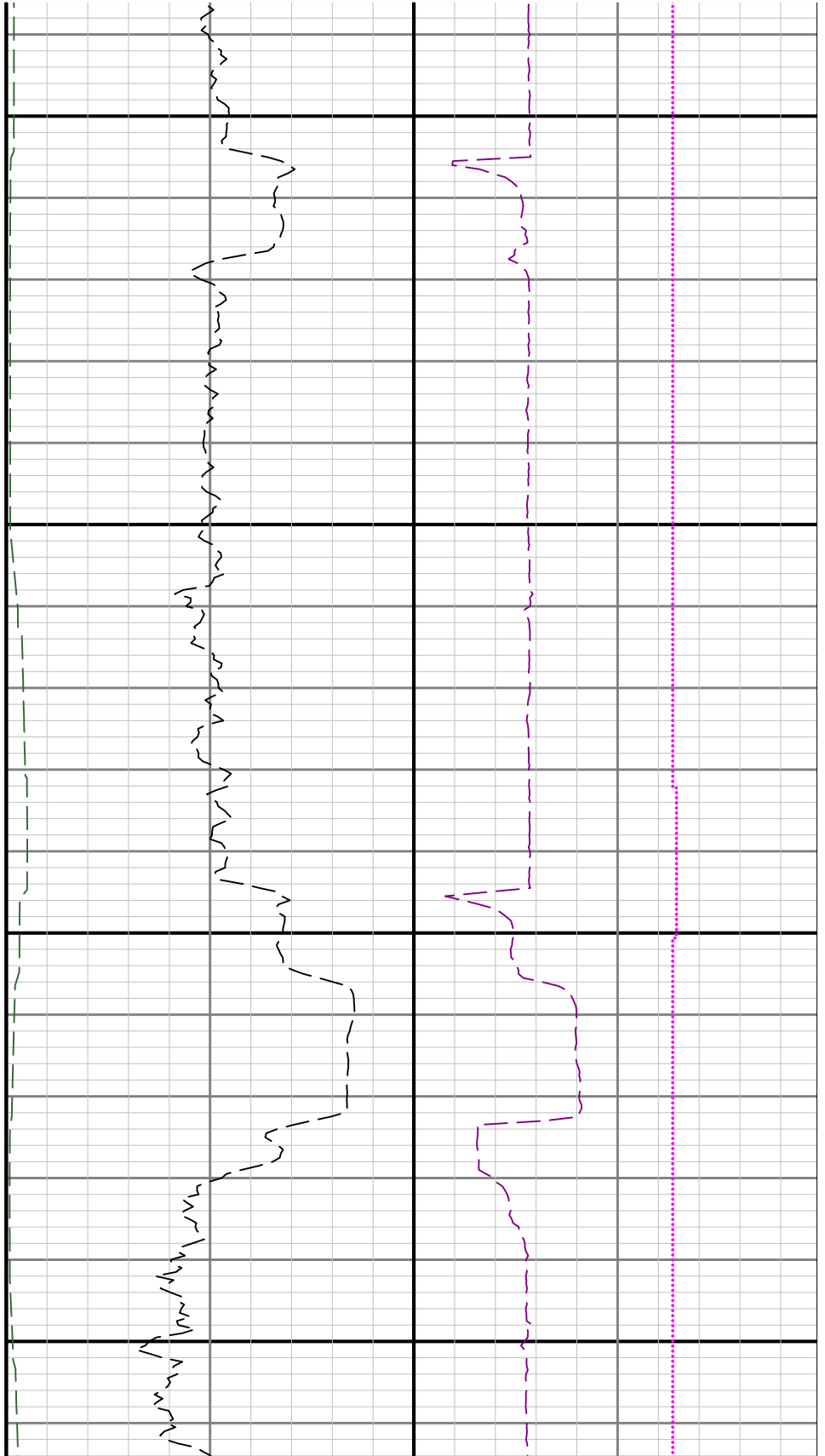
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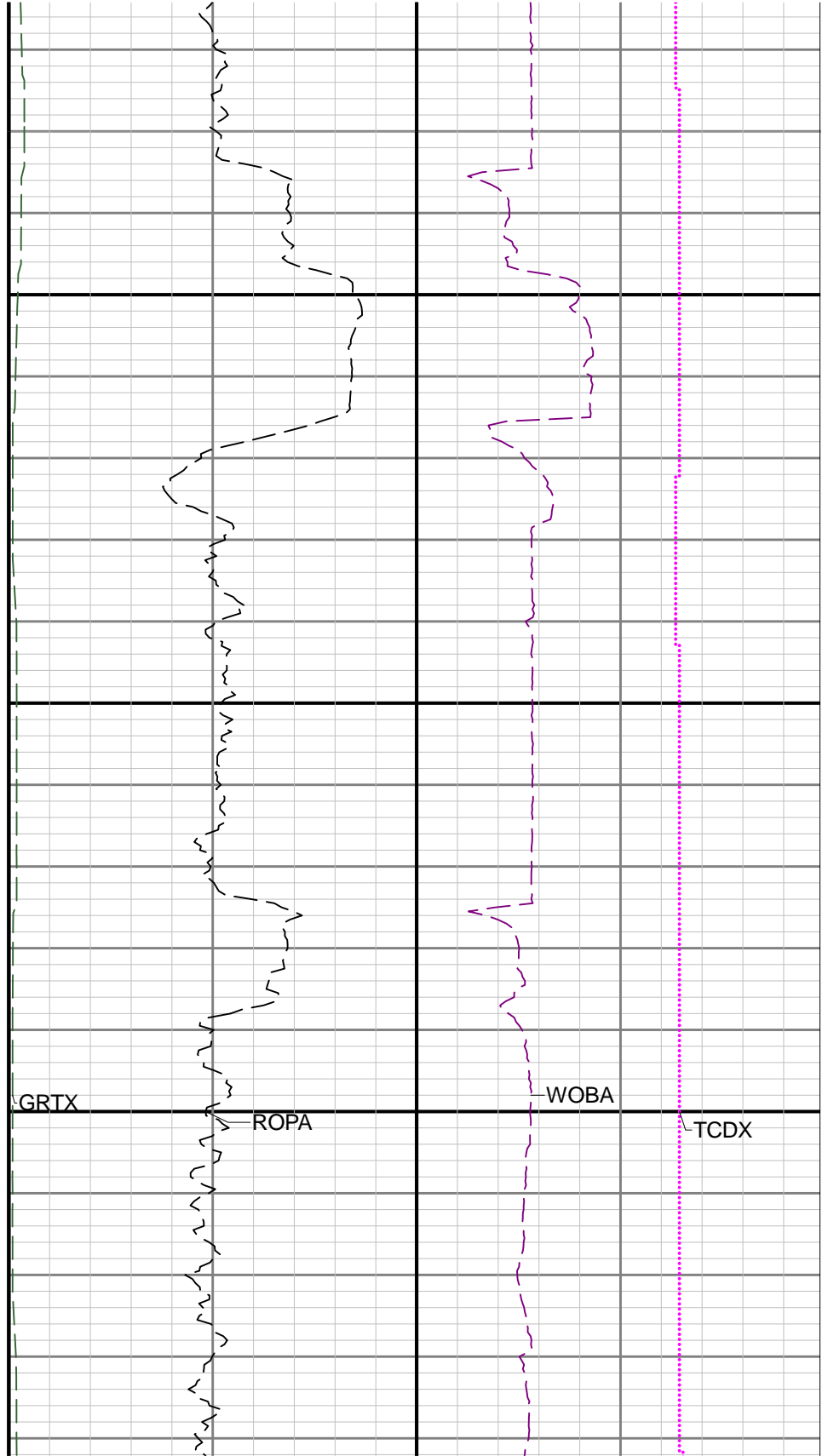
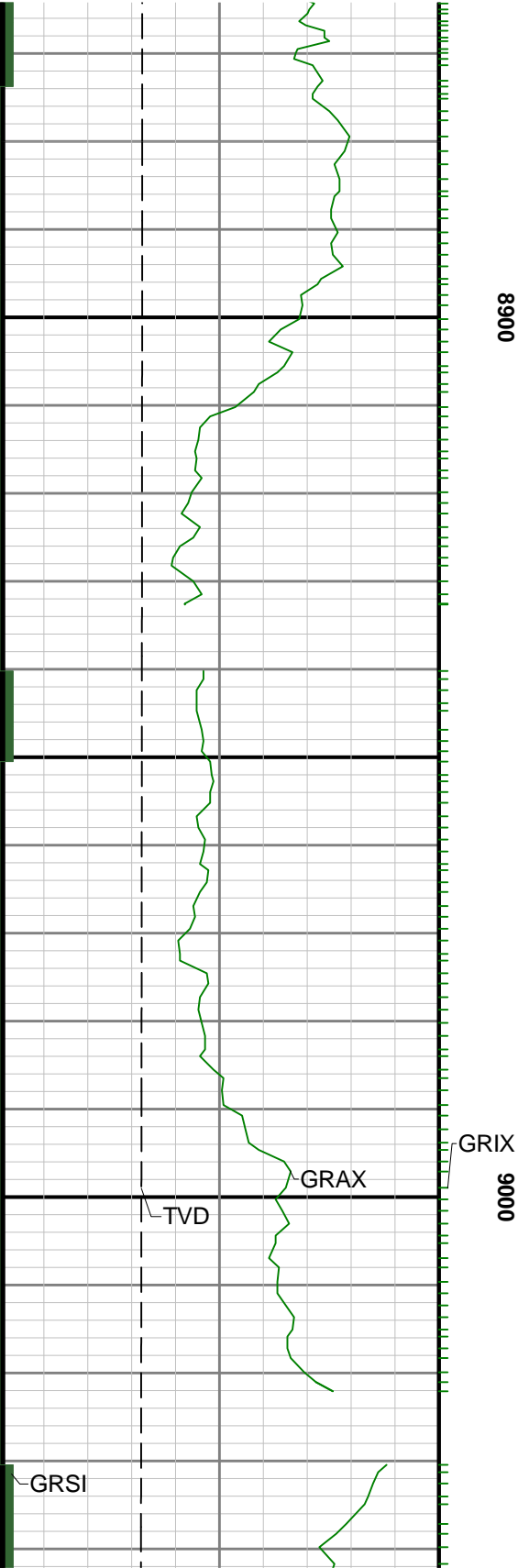


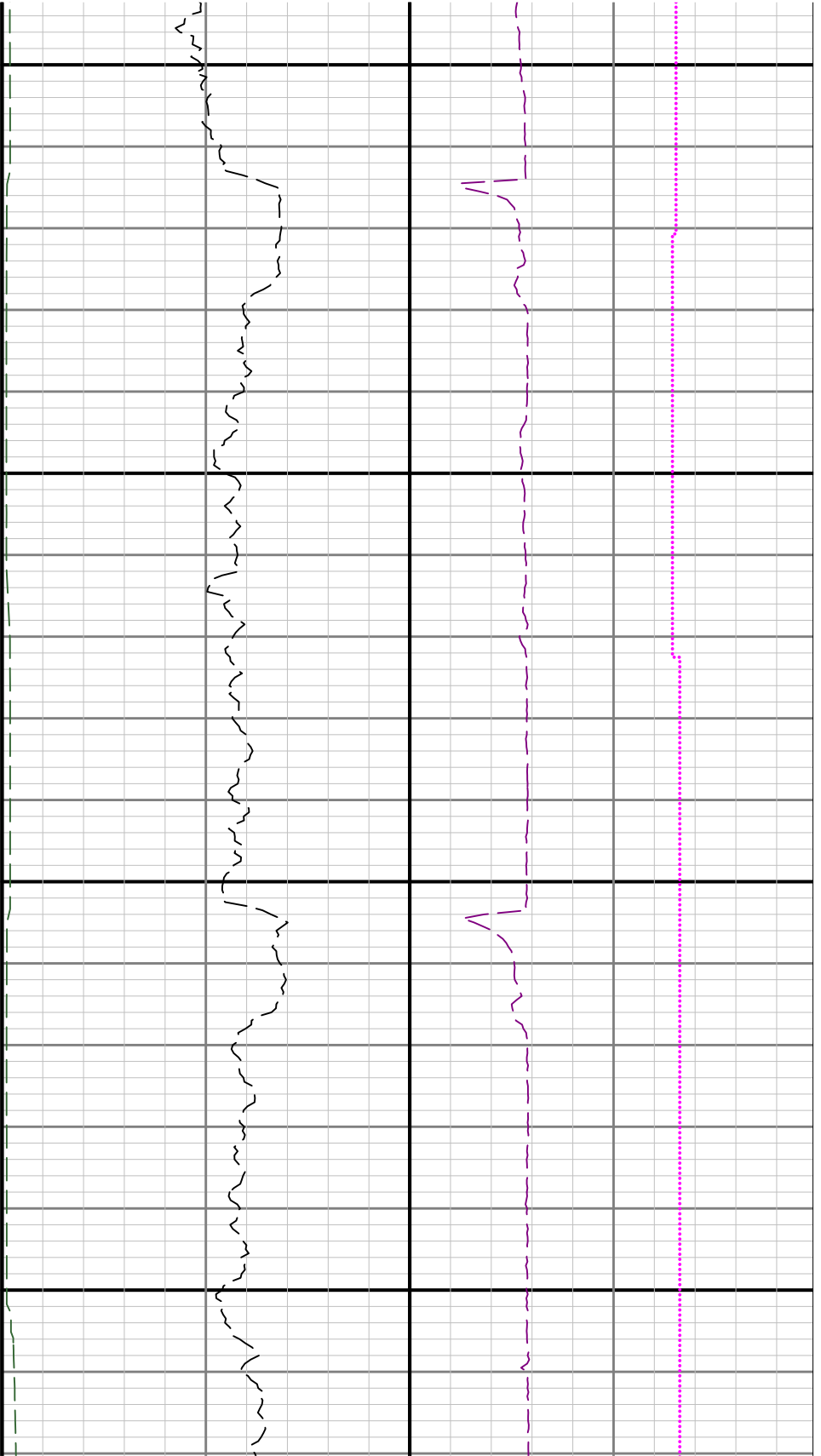


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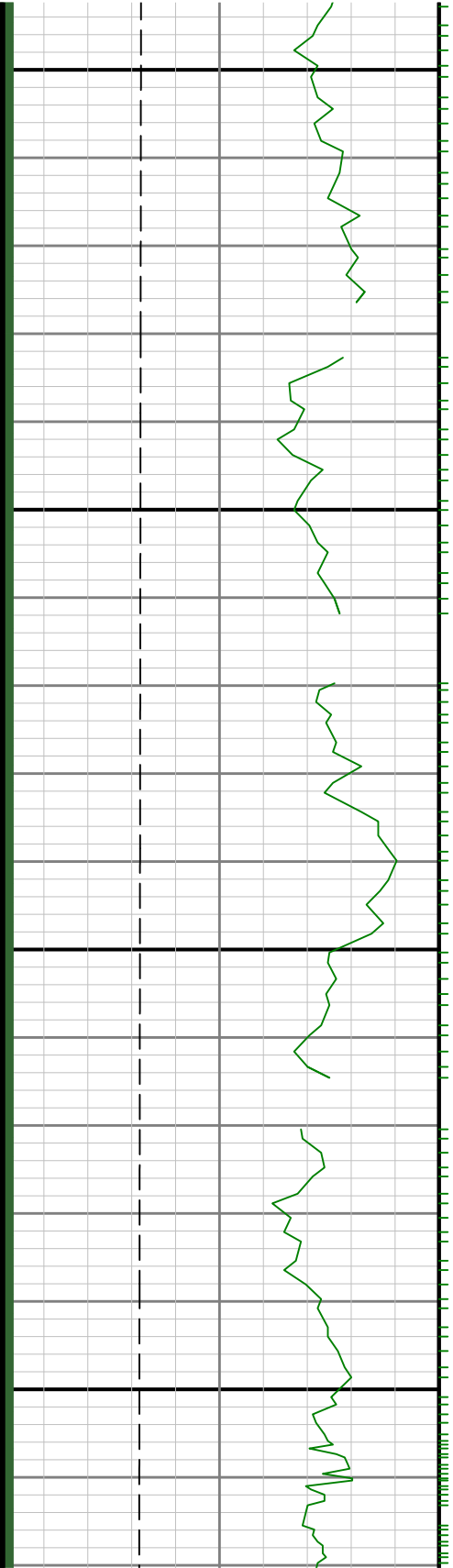


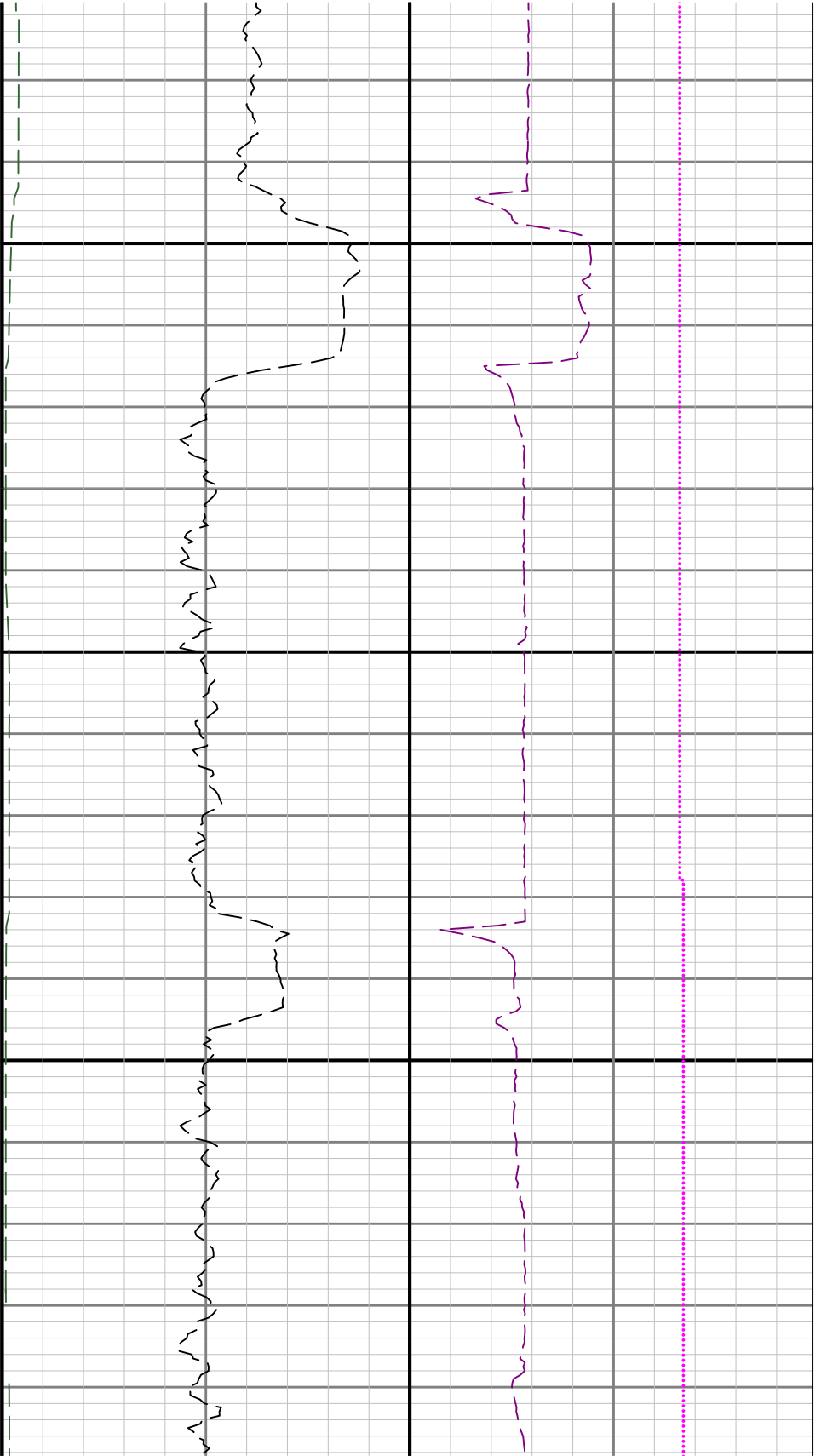




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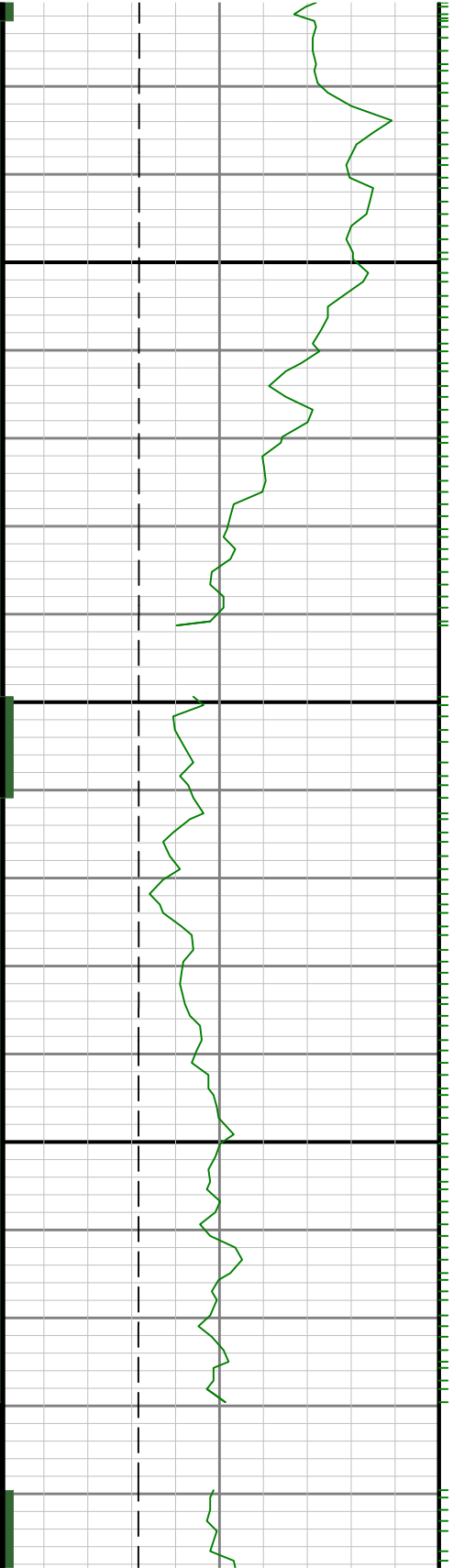
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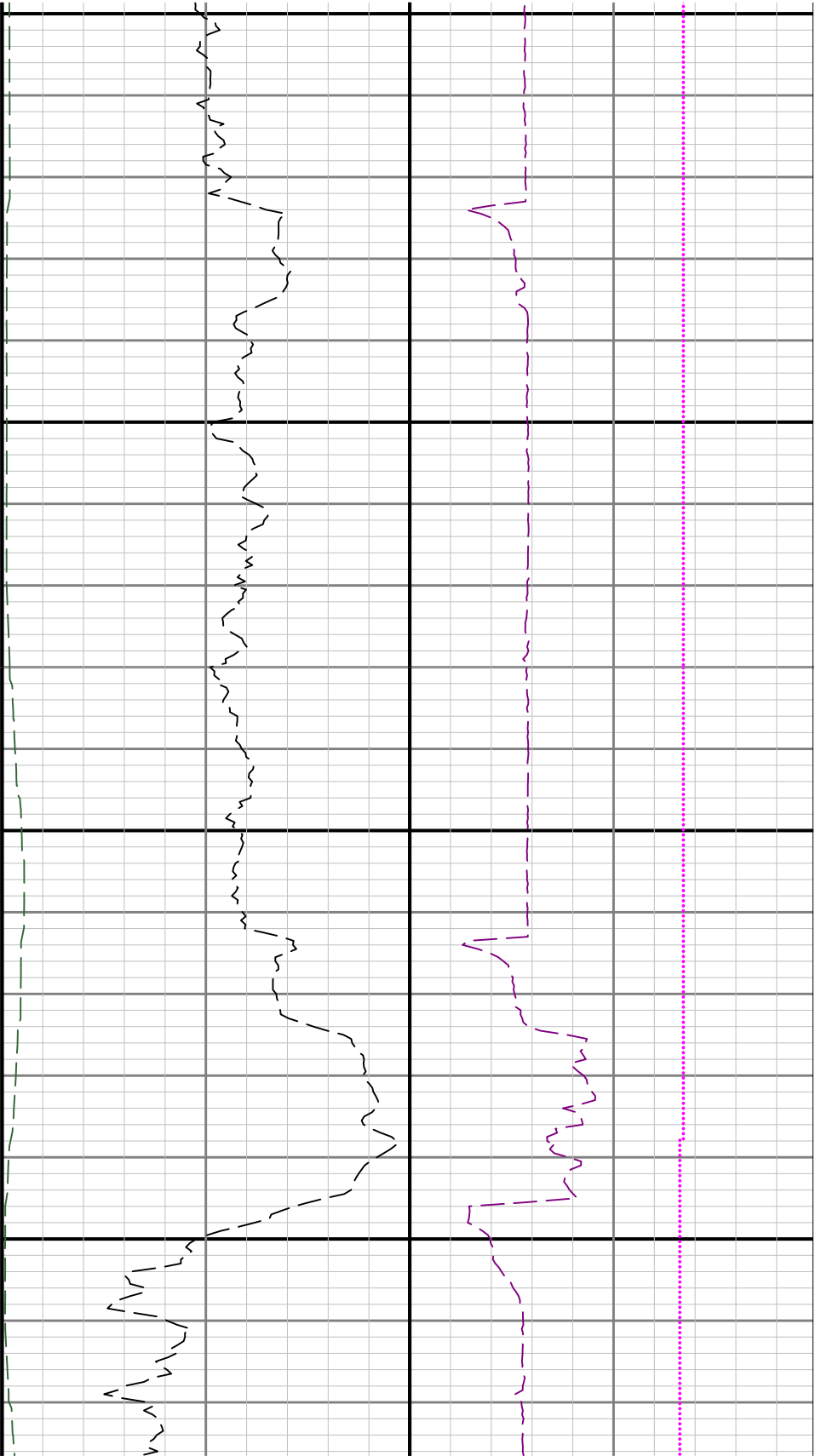




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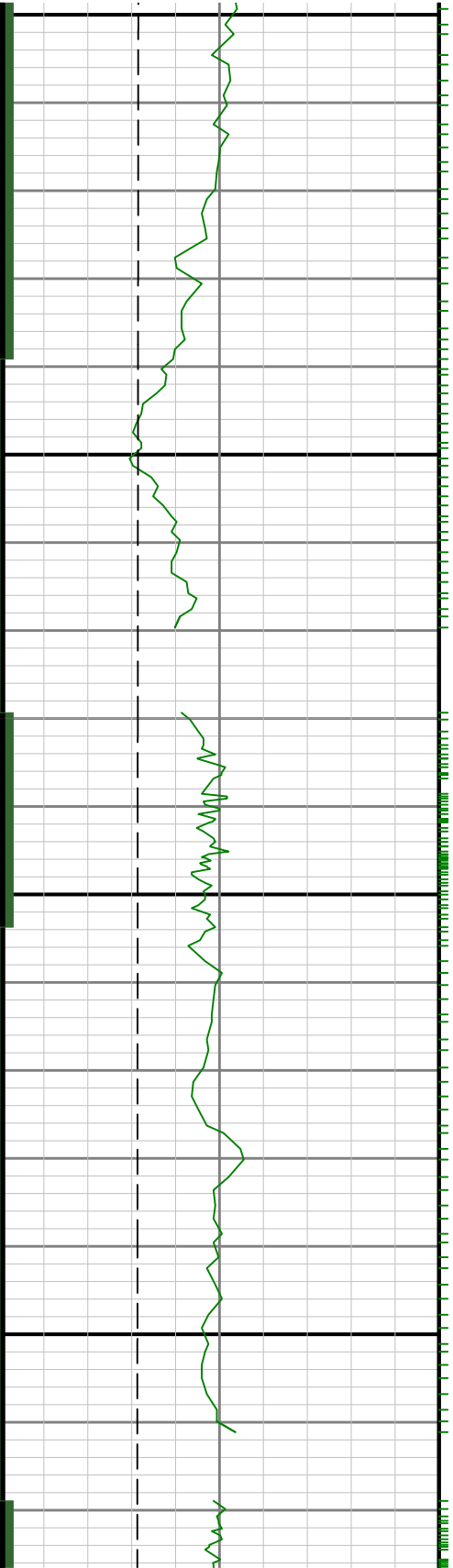
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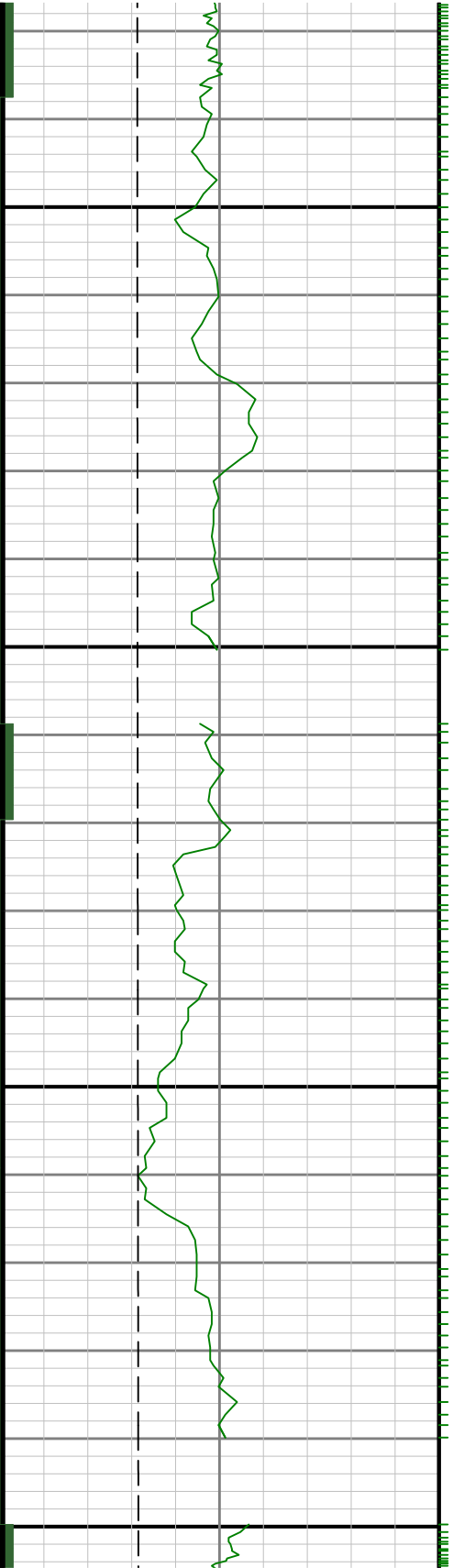




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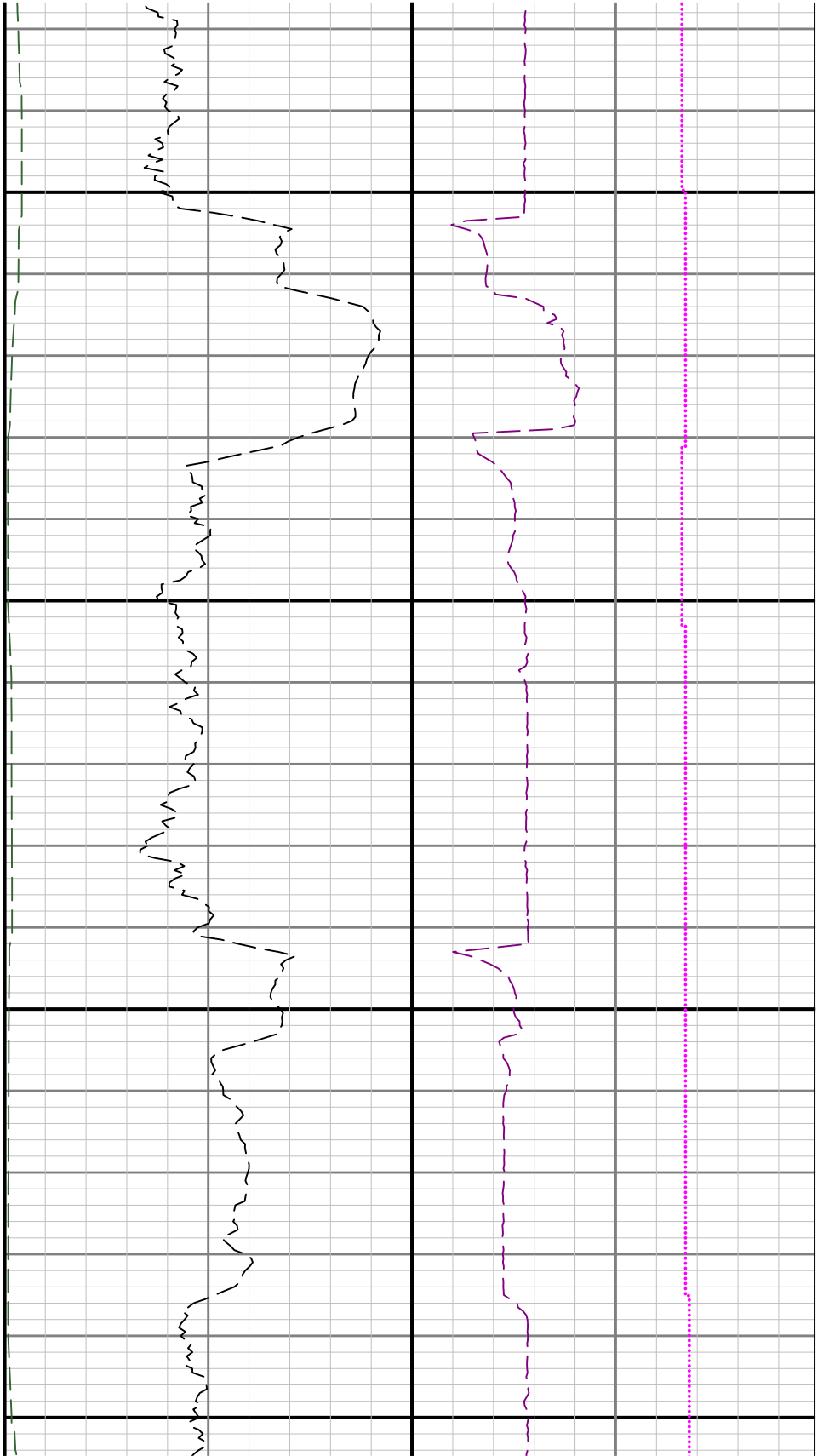
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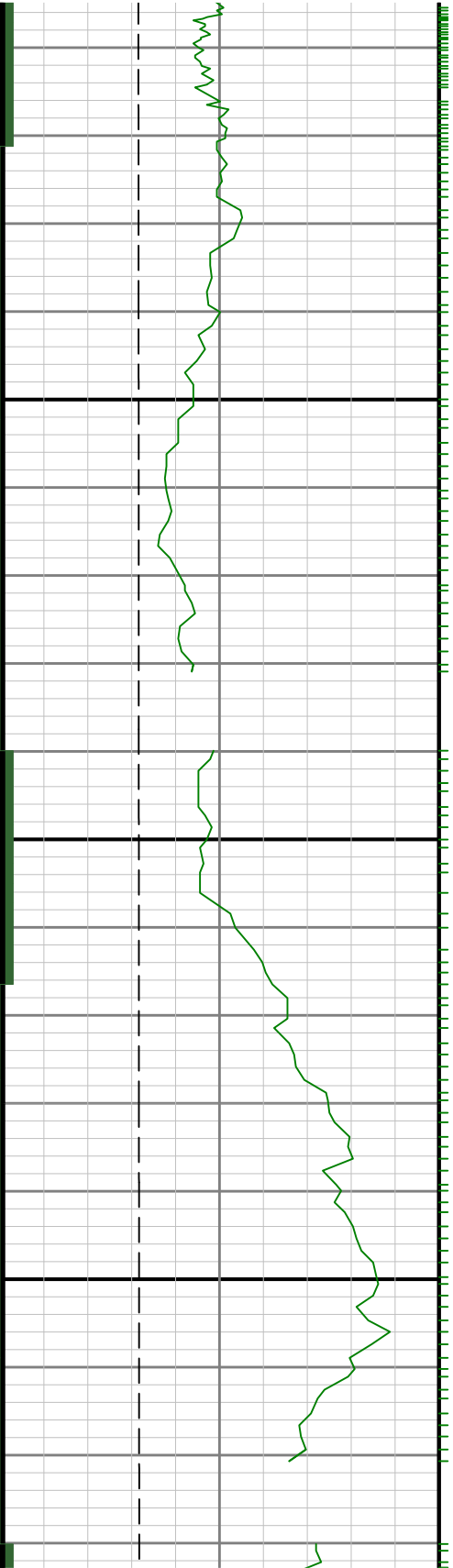




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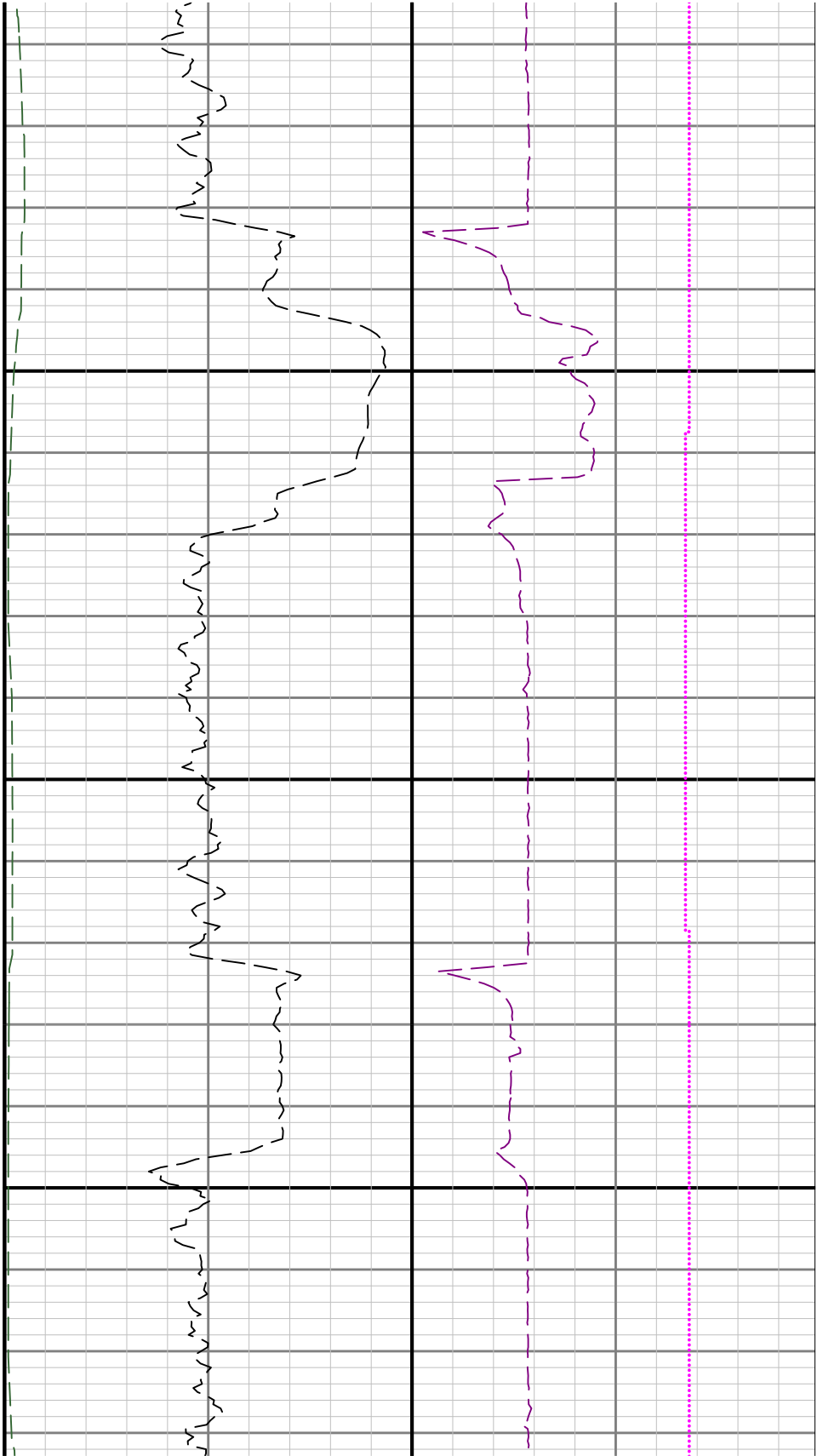
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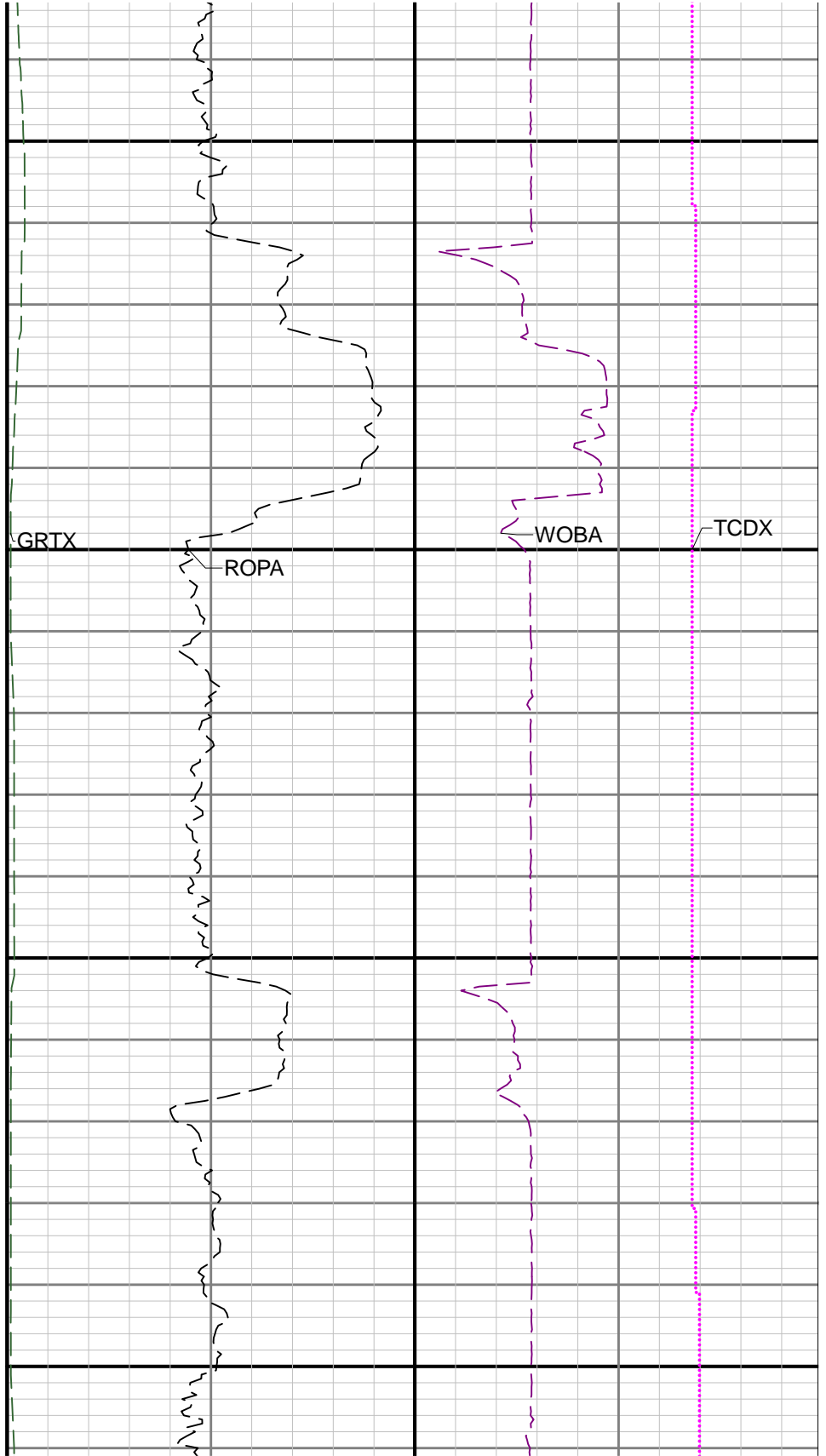
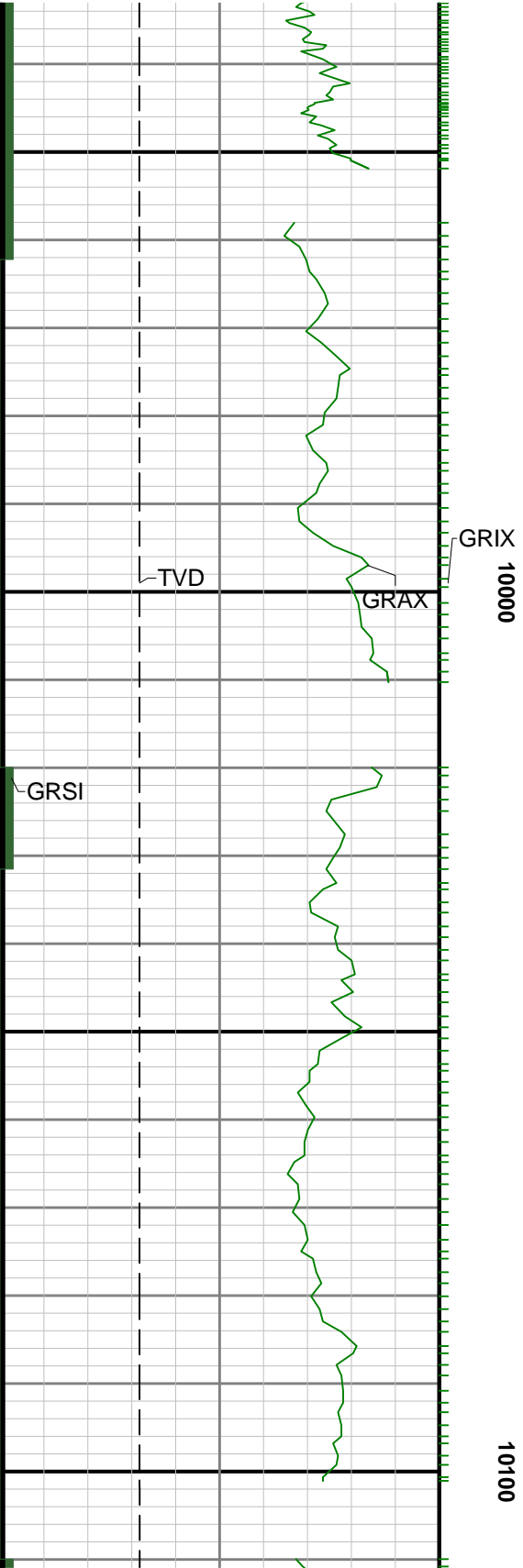


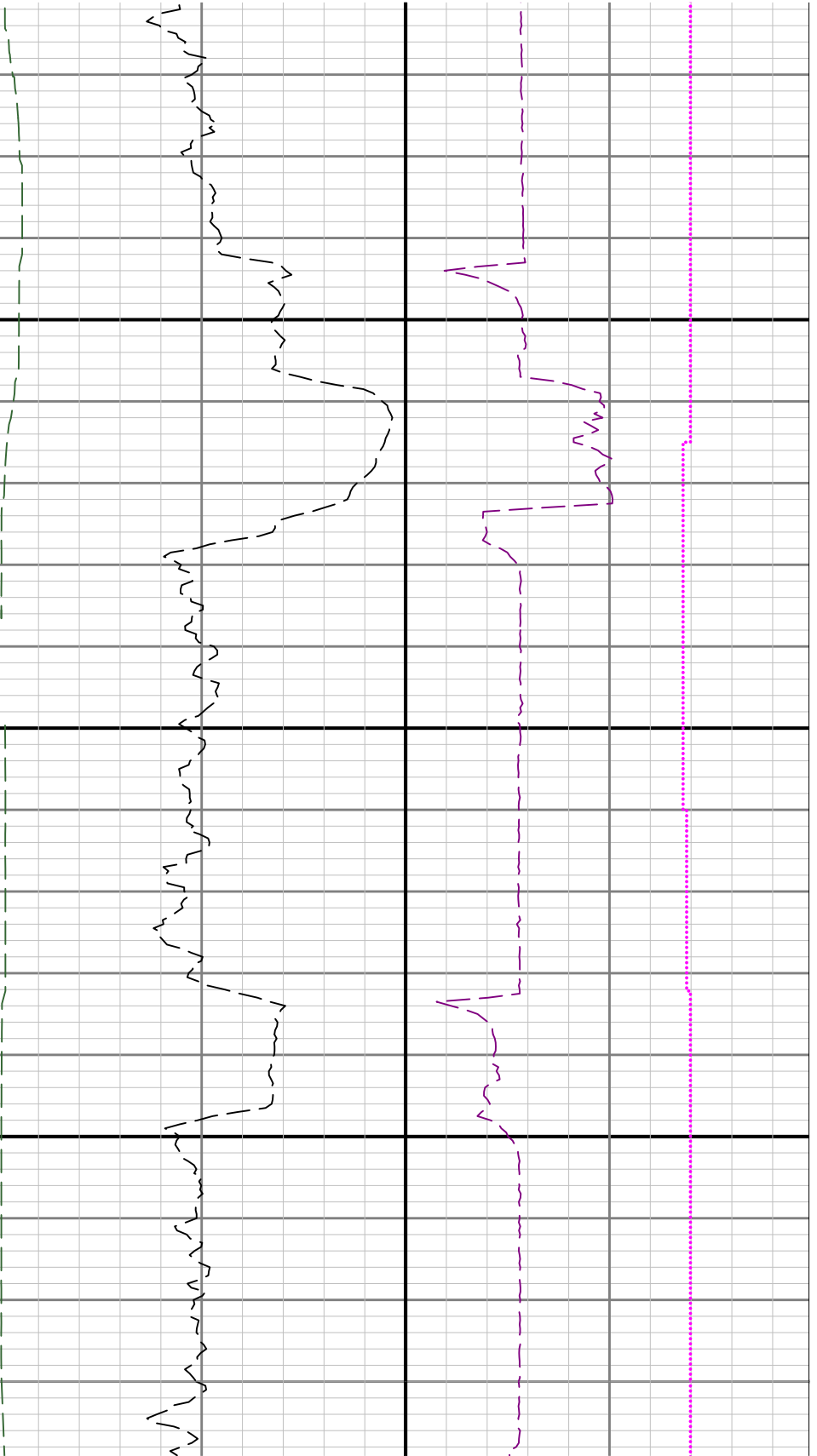
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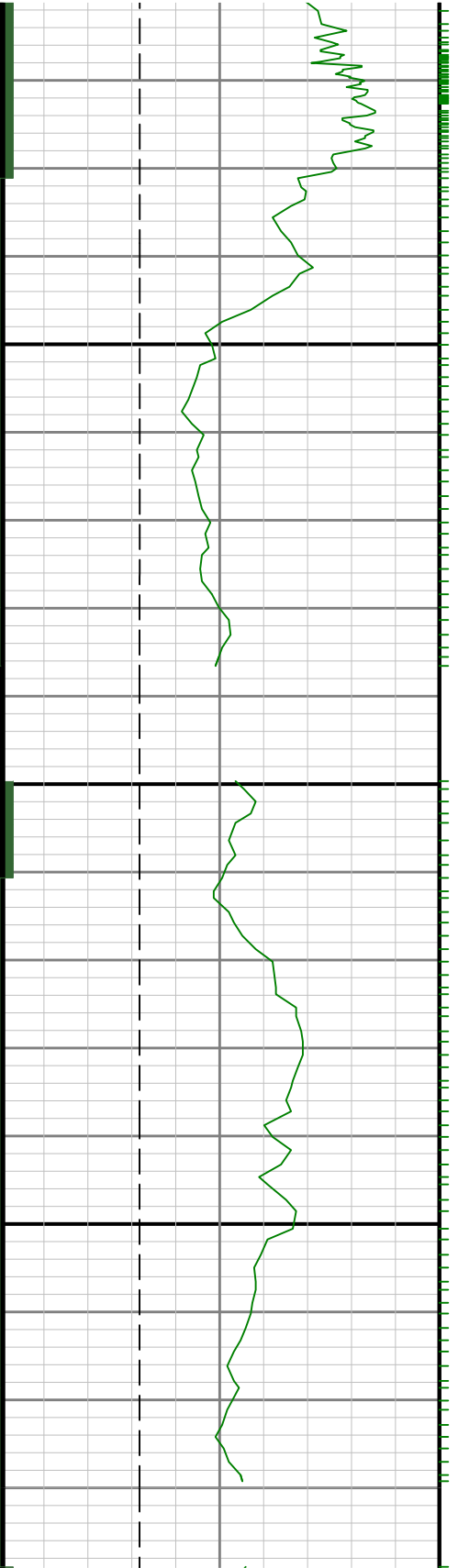


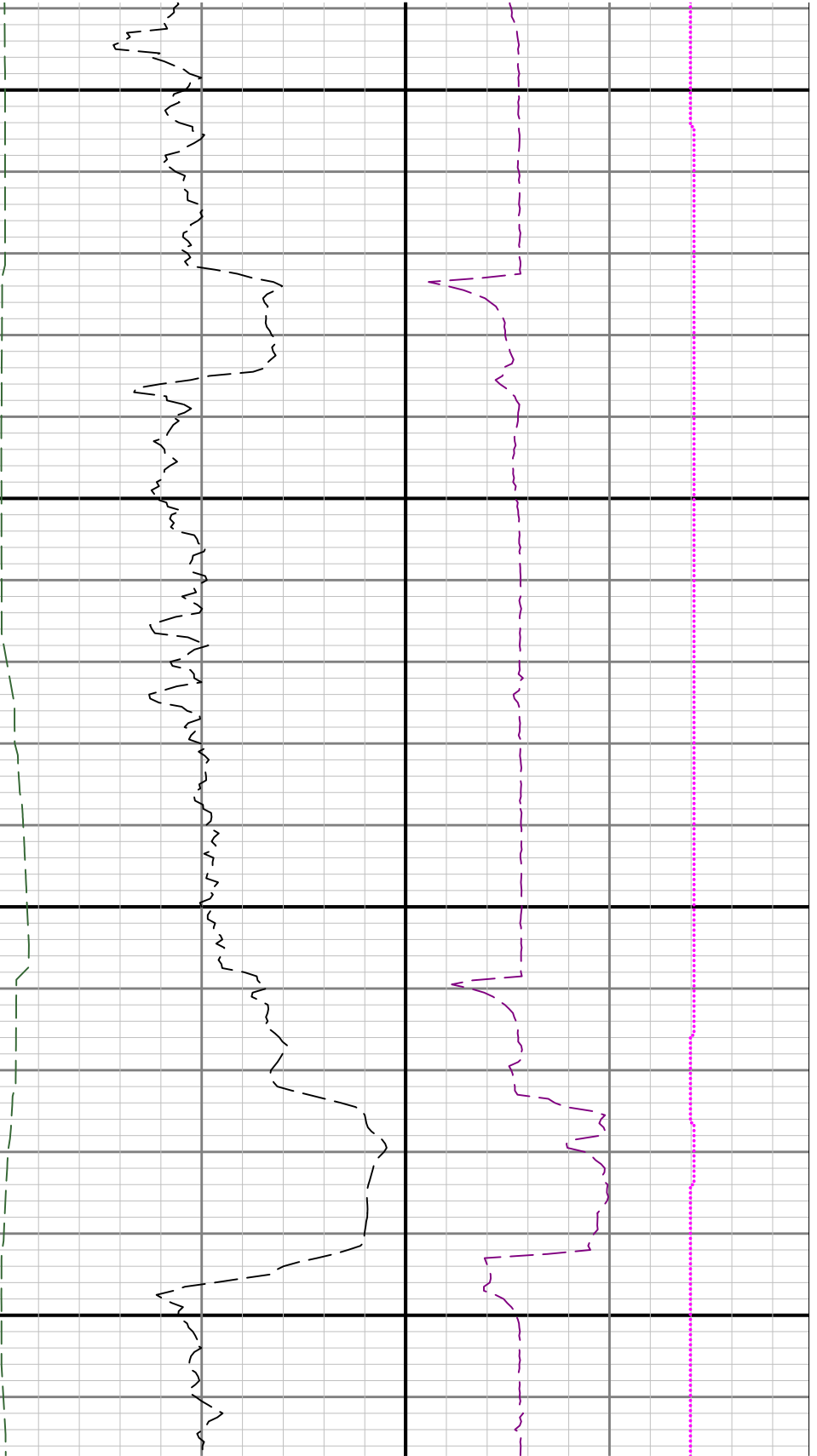






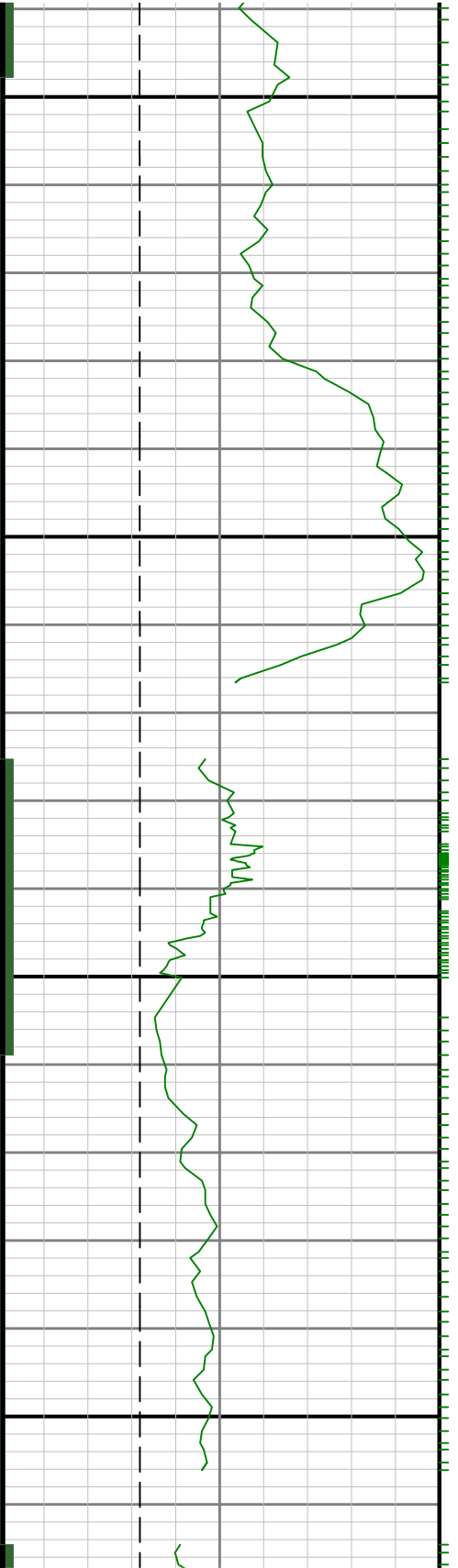
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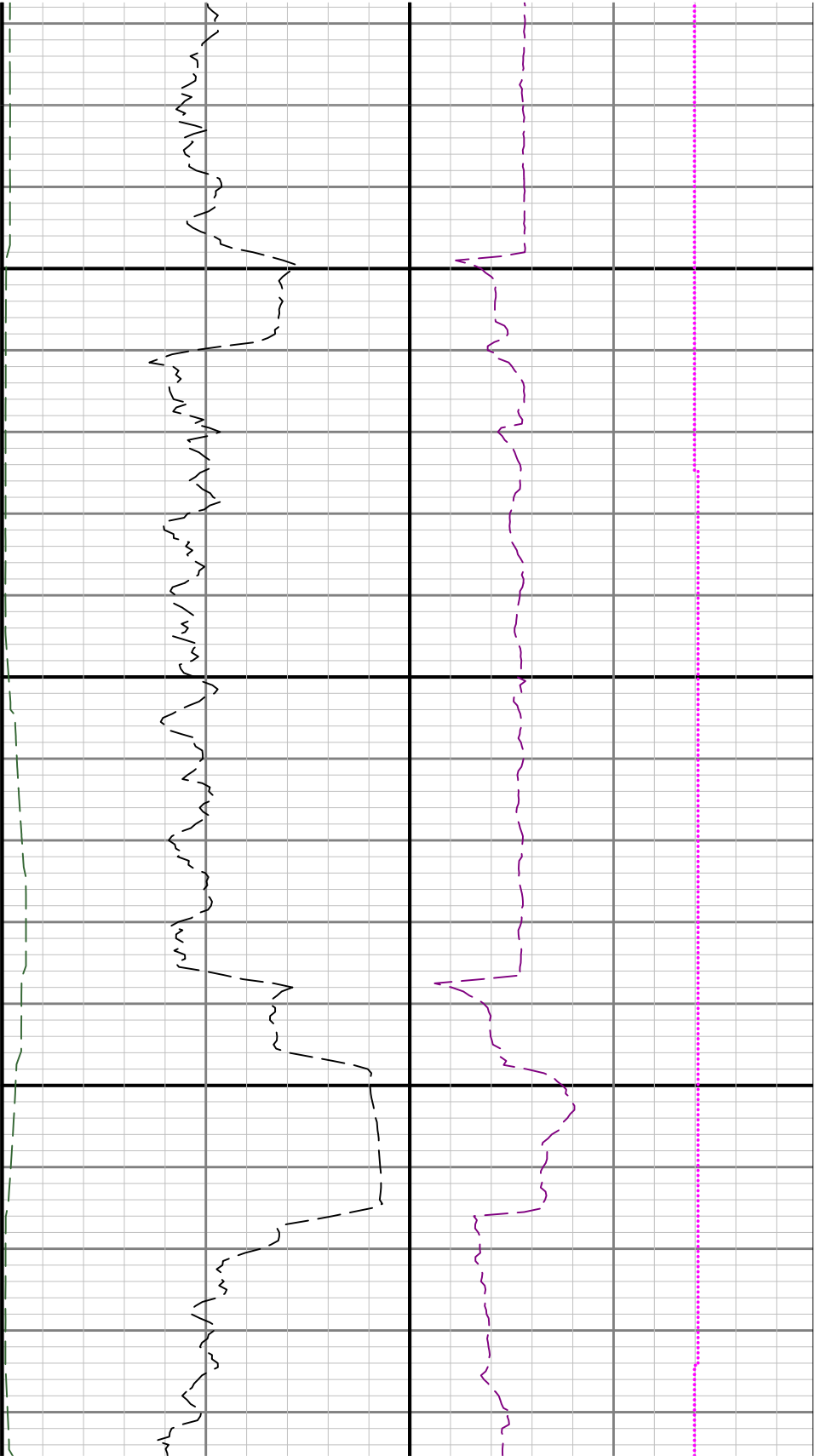




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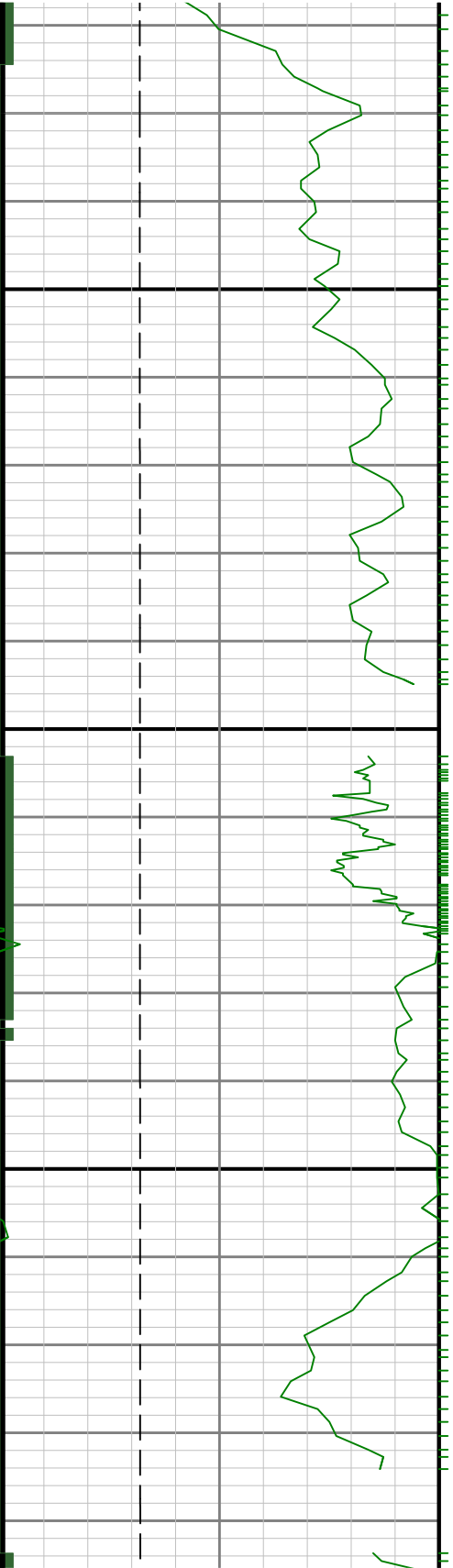
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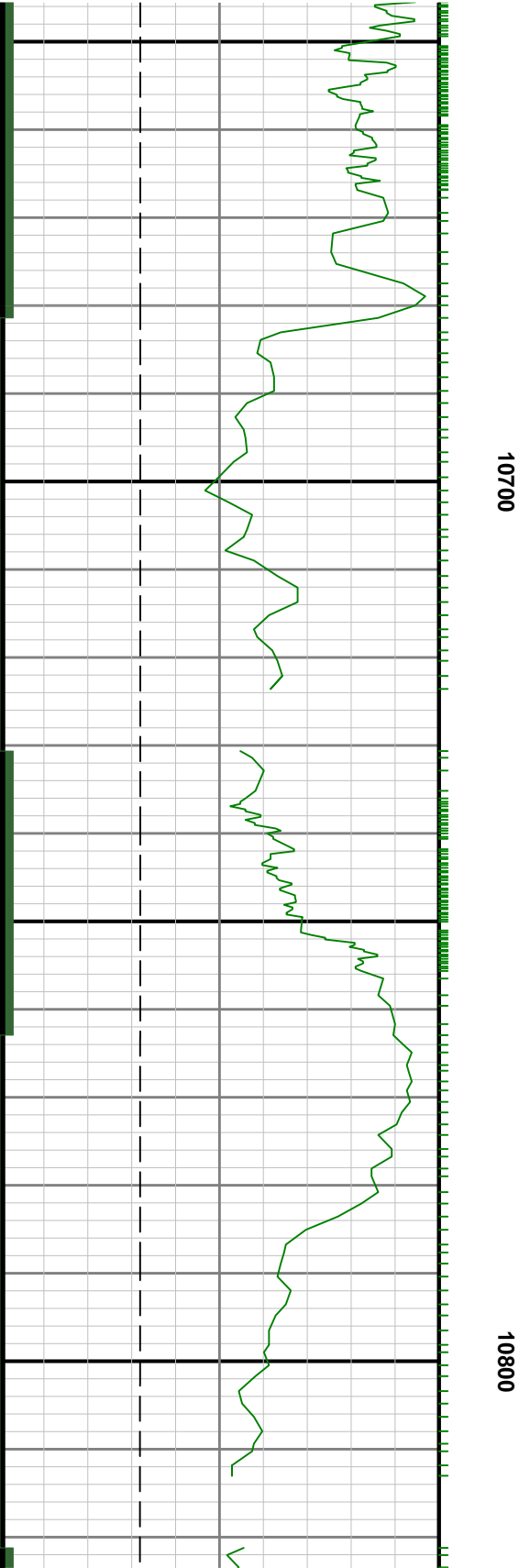
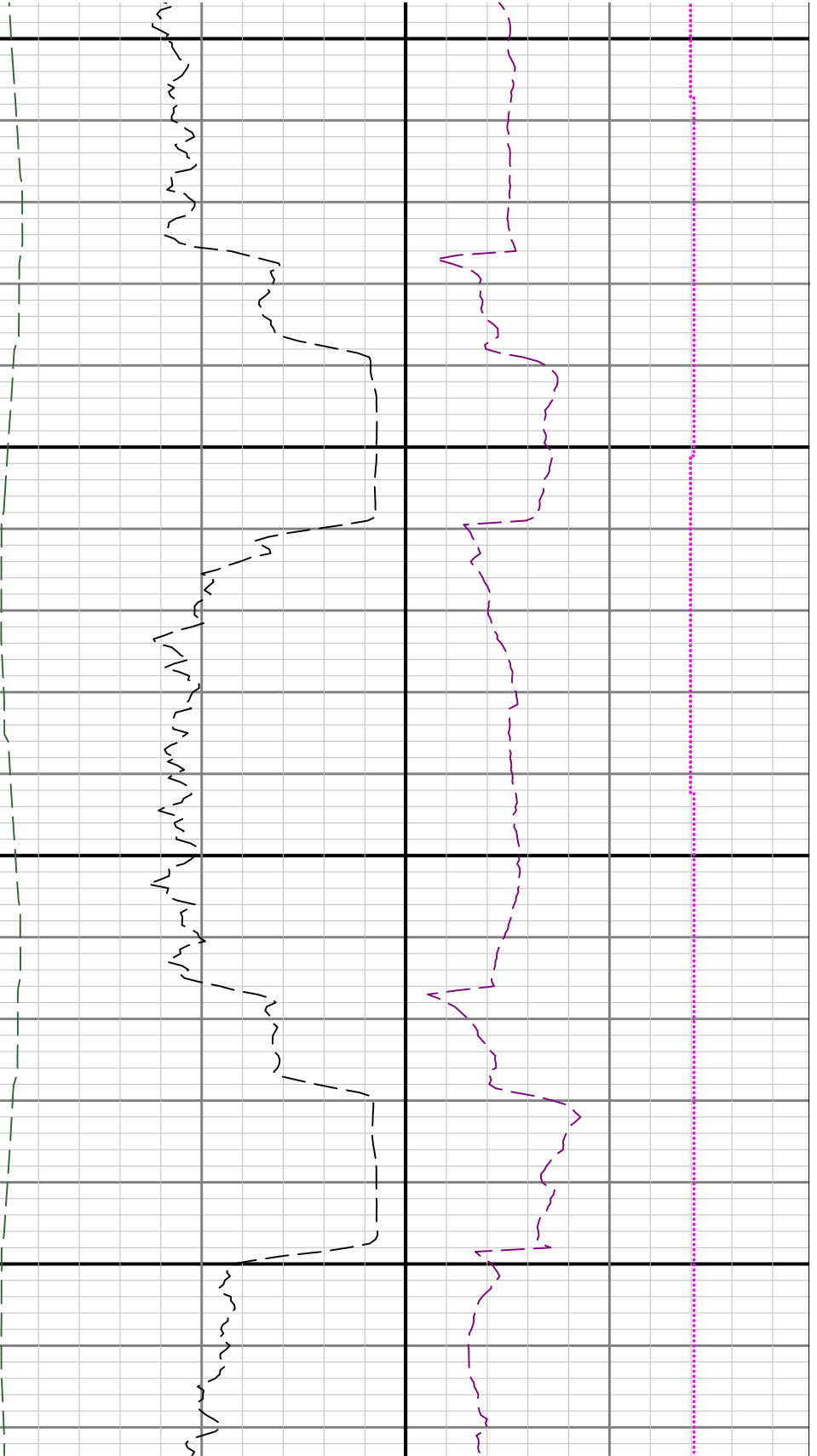


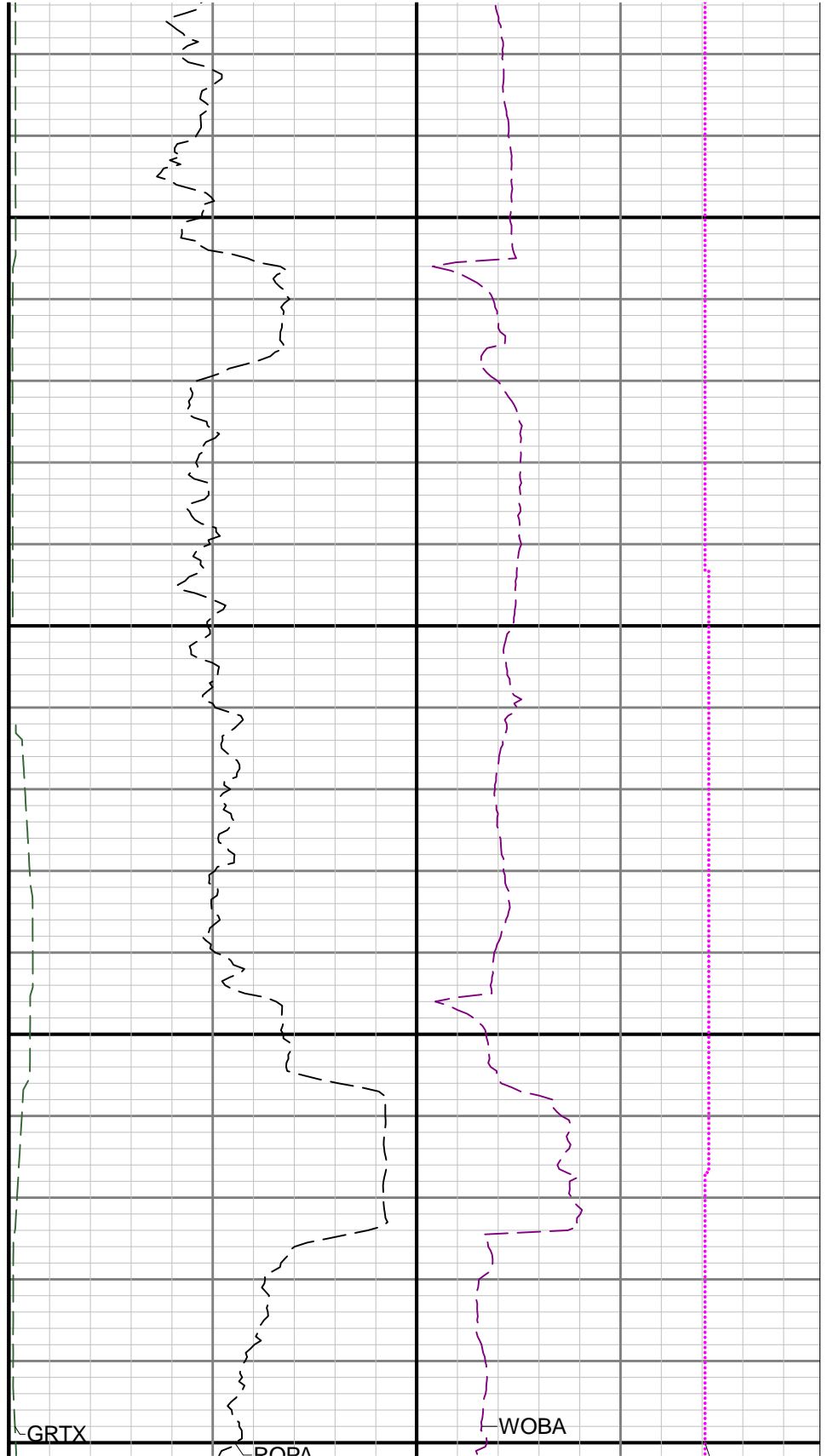
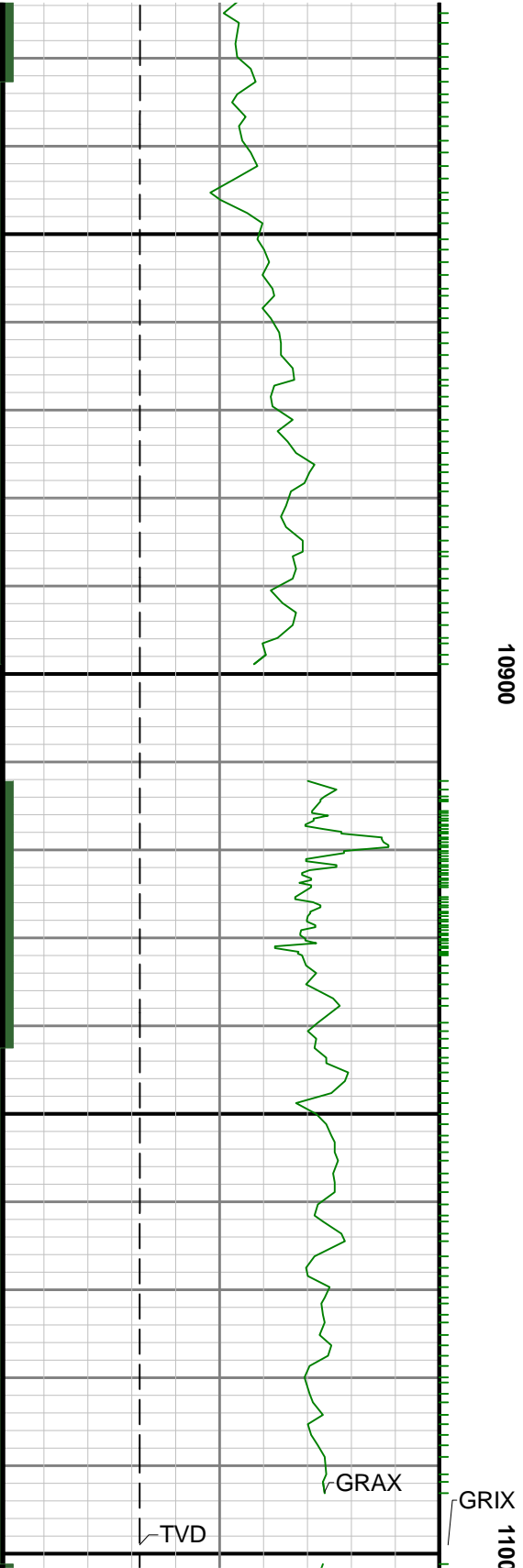


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10600







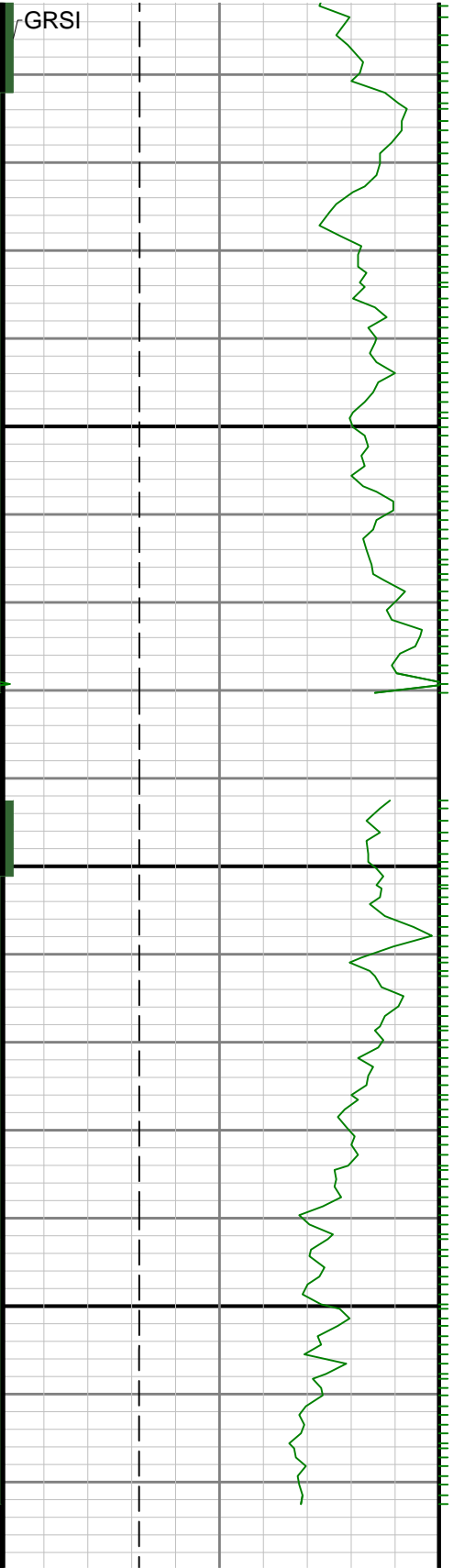
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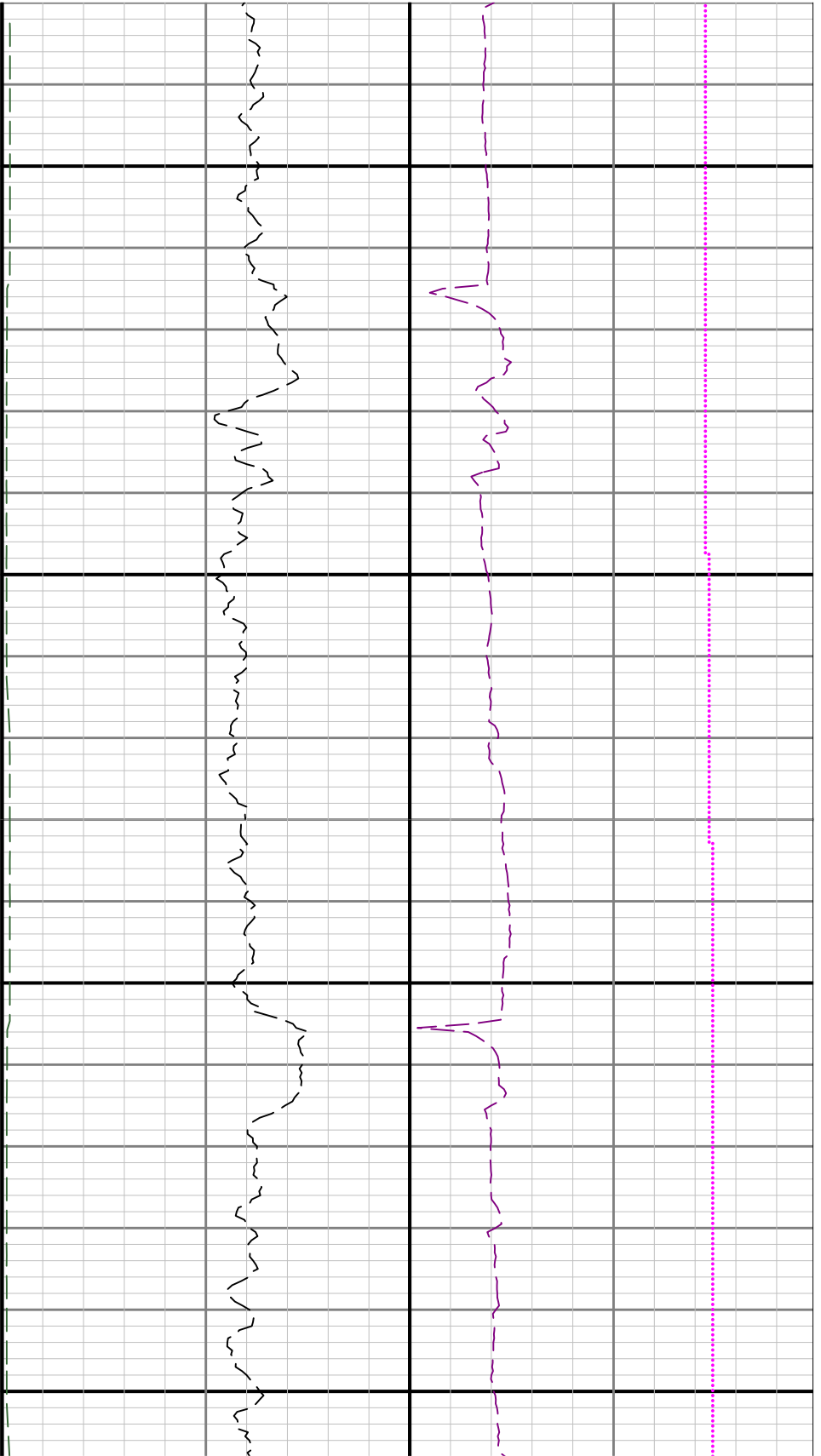


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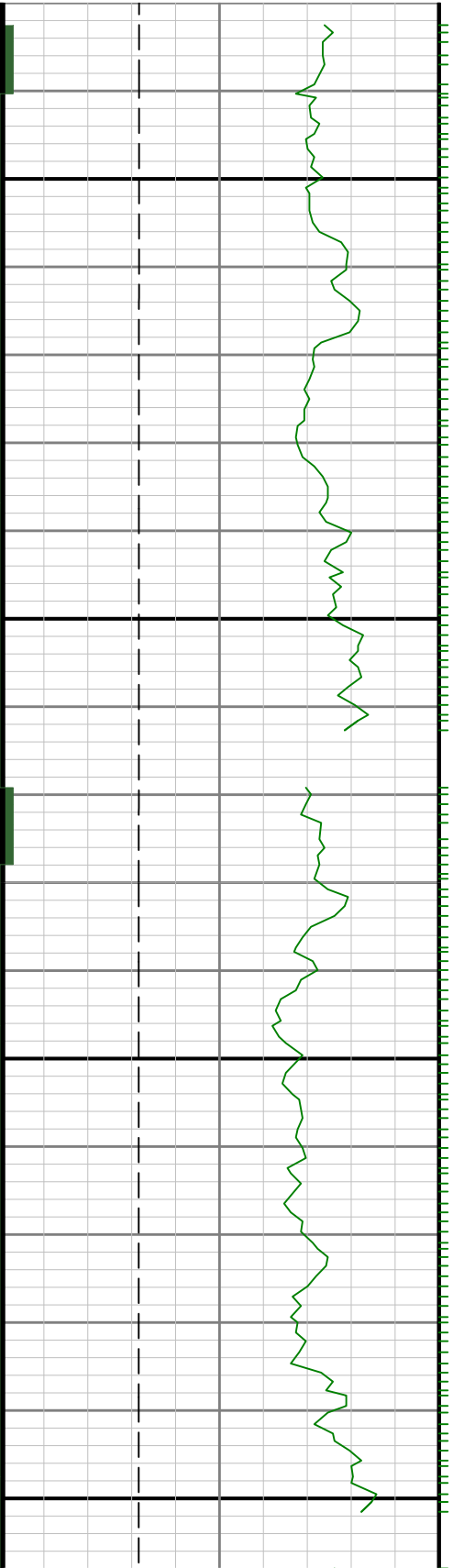
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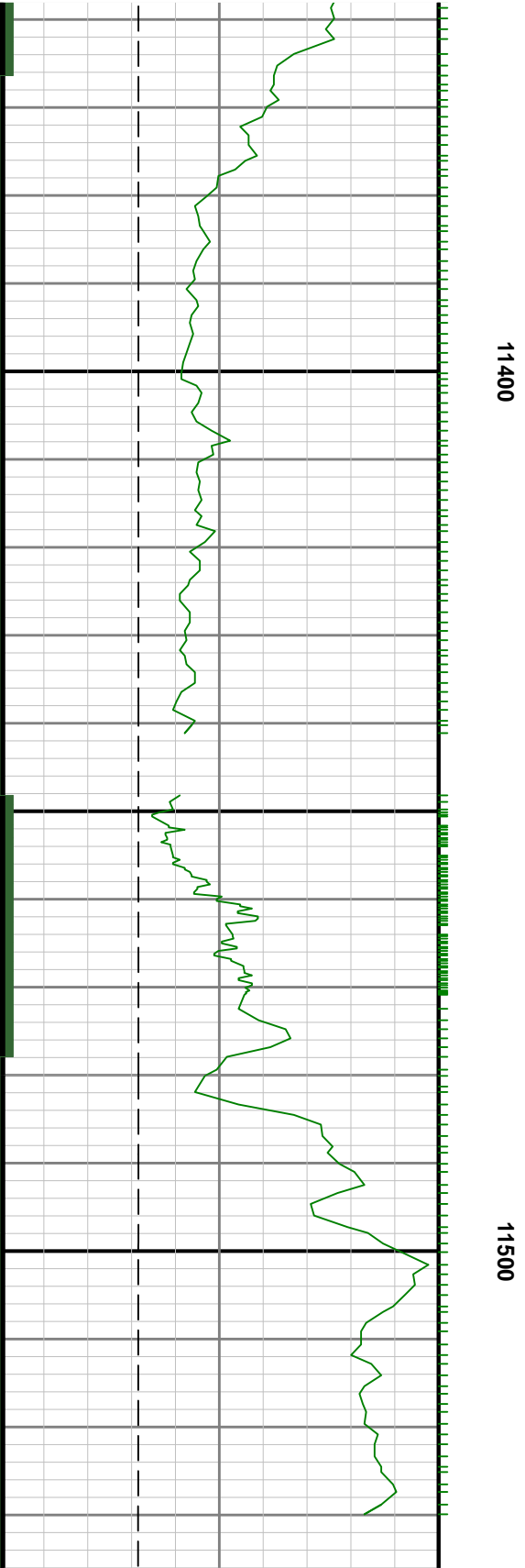
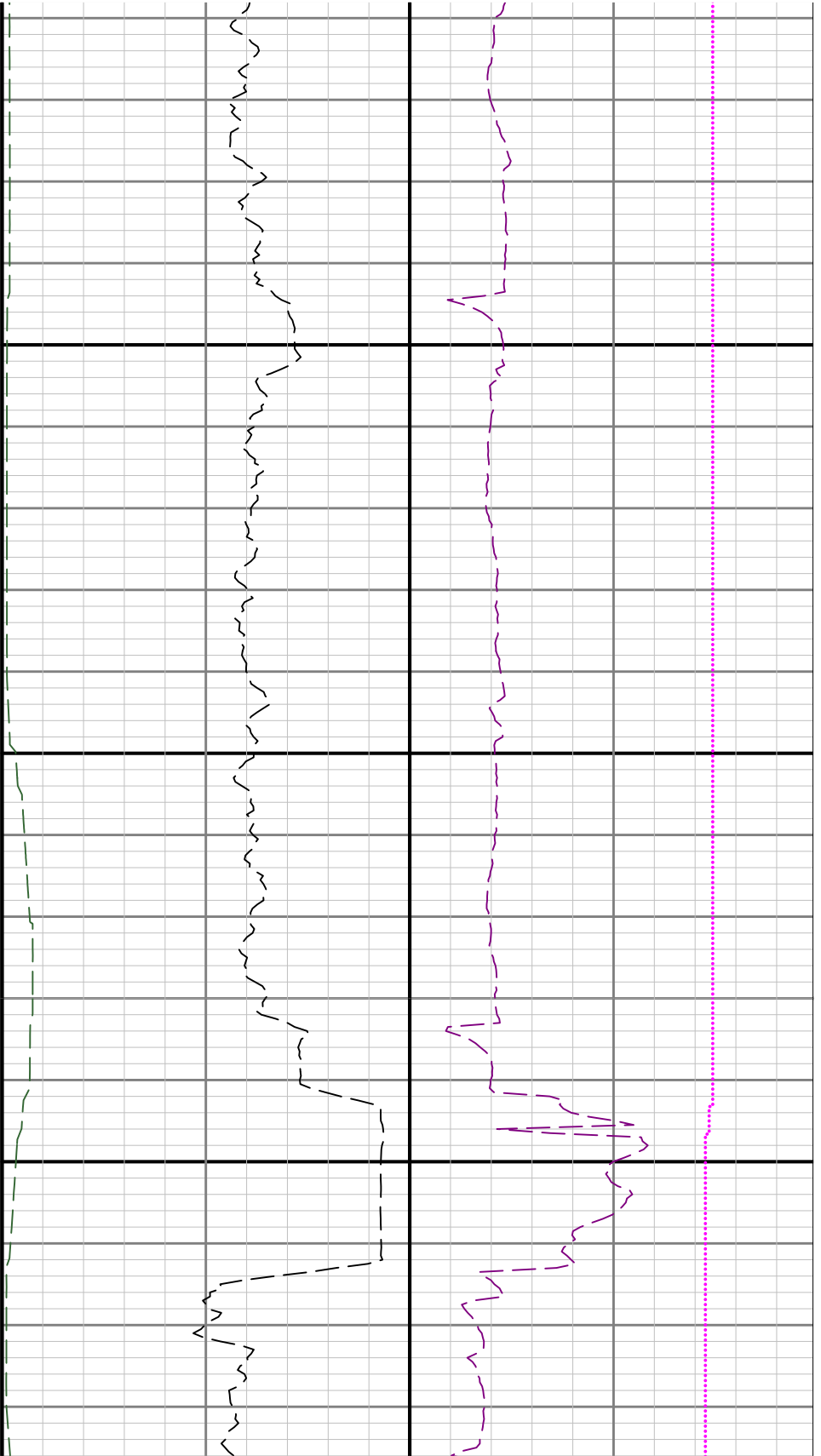


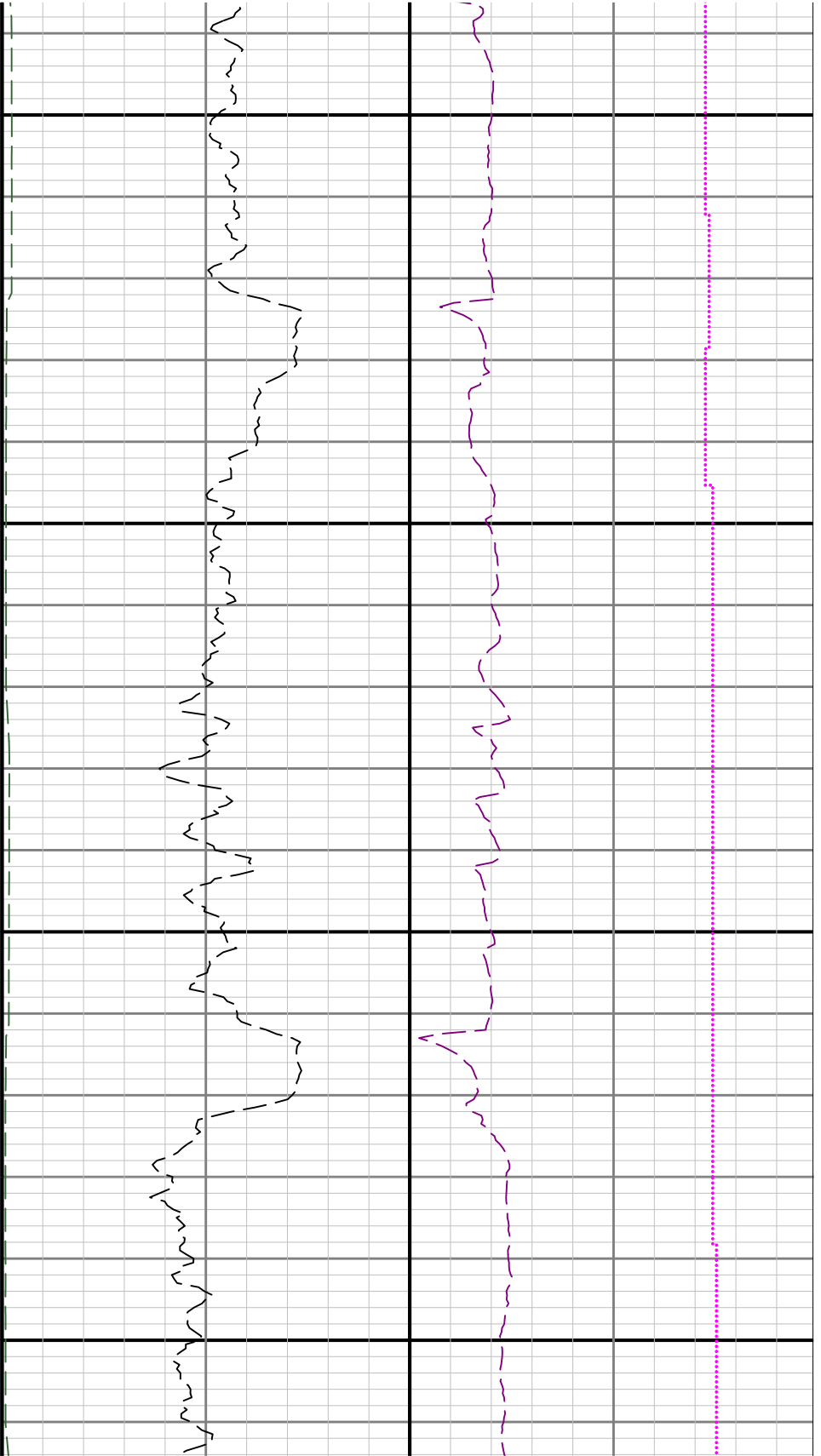
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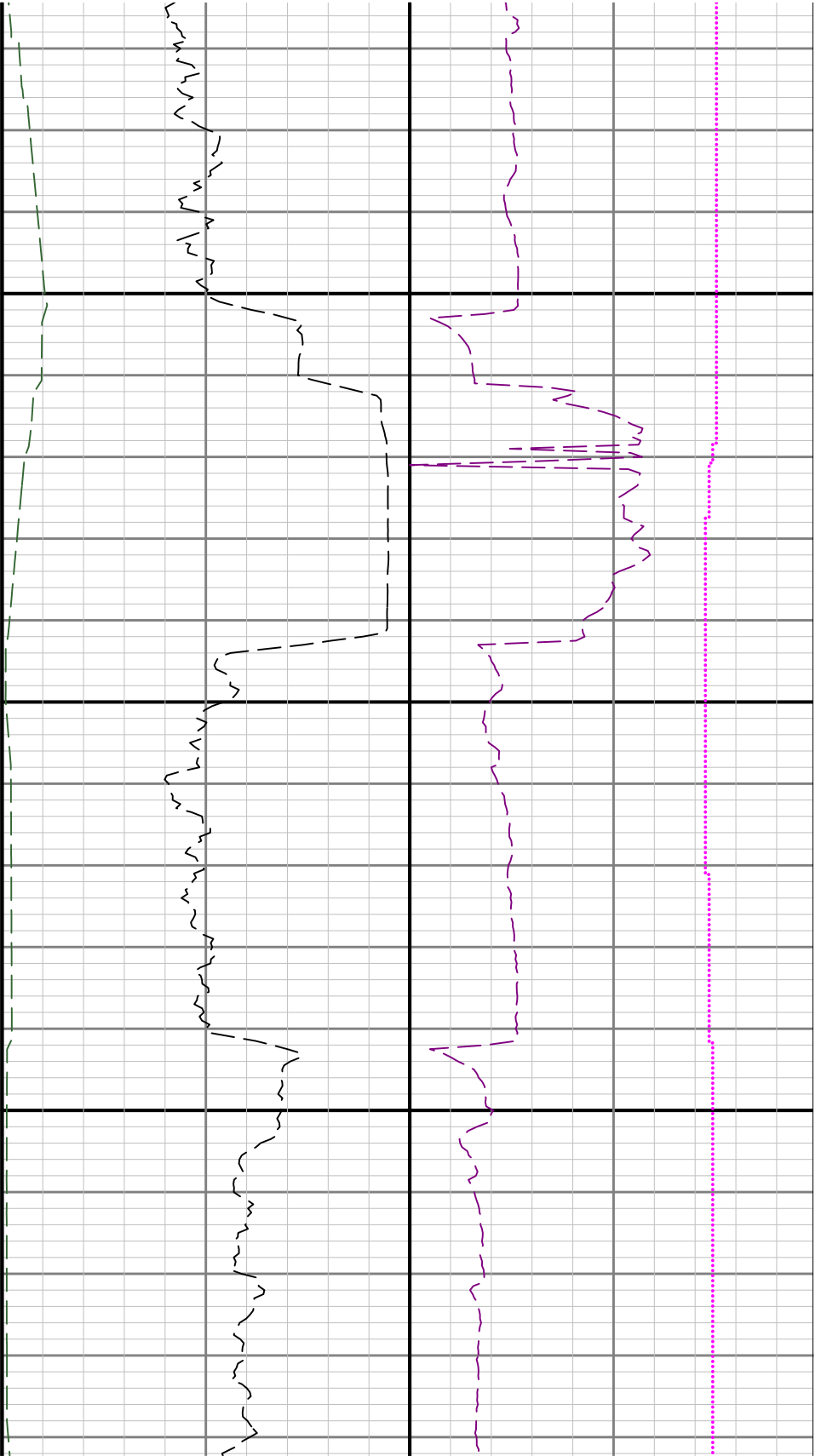
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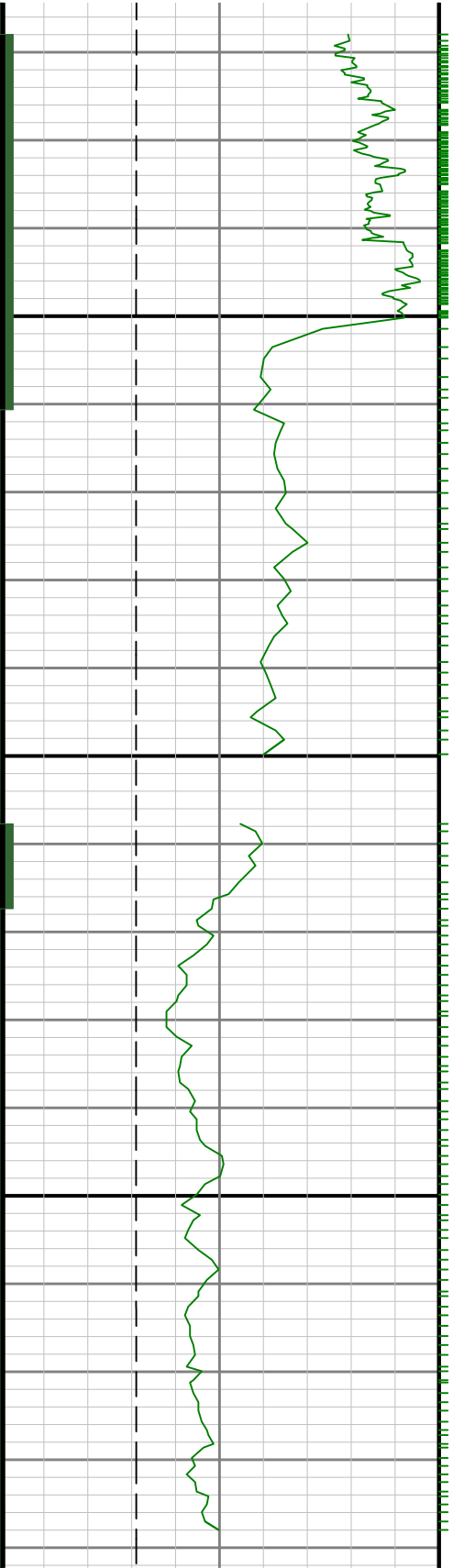


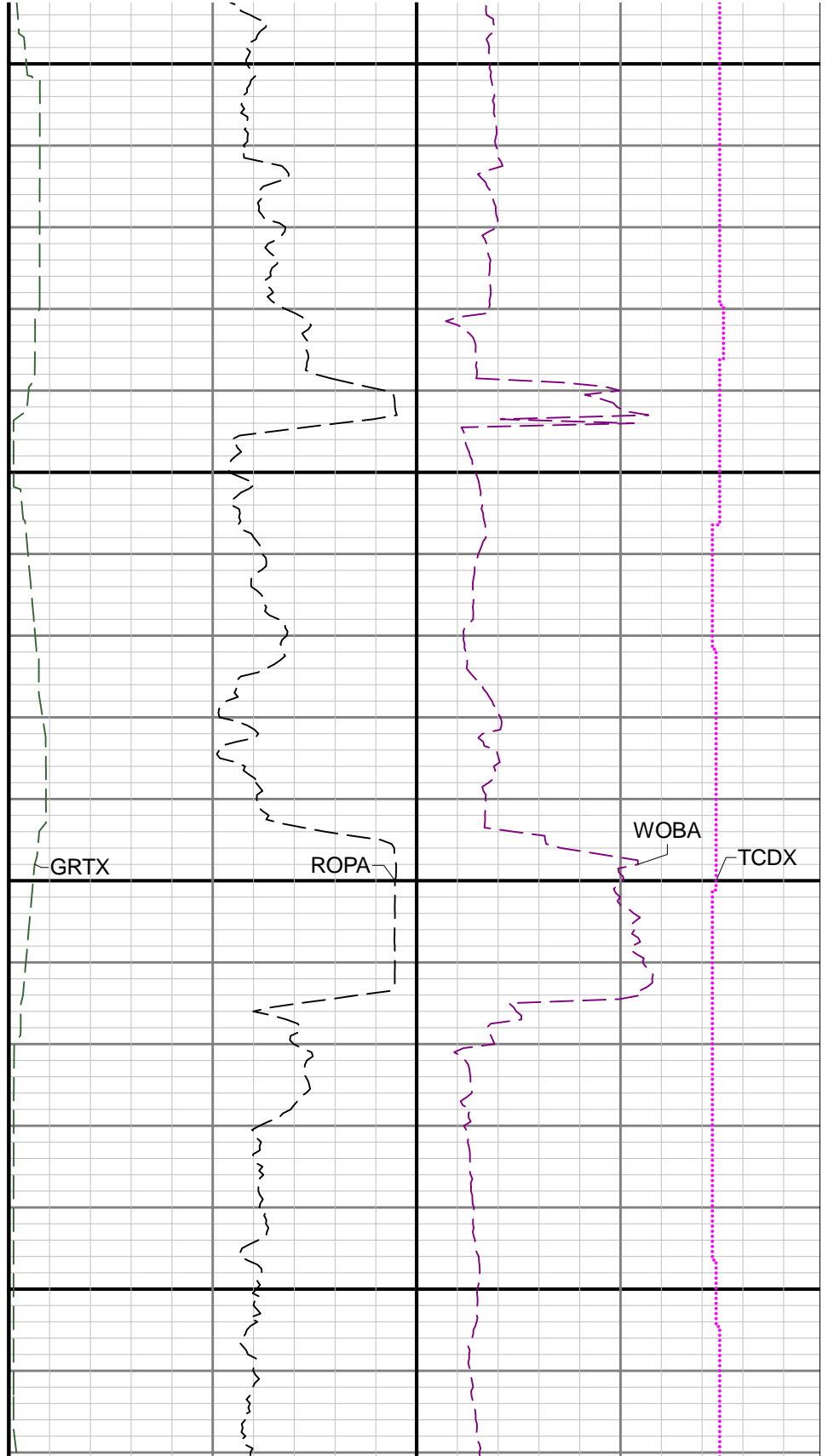
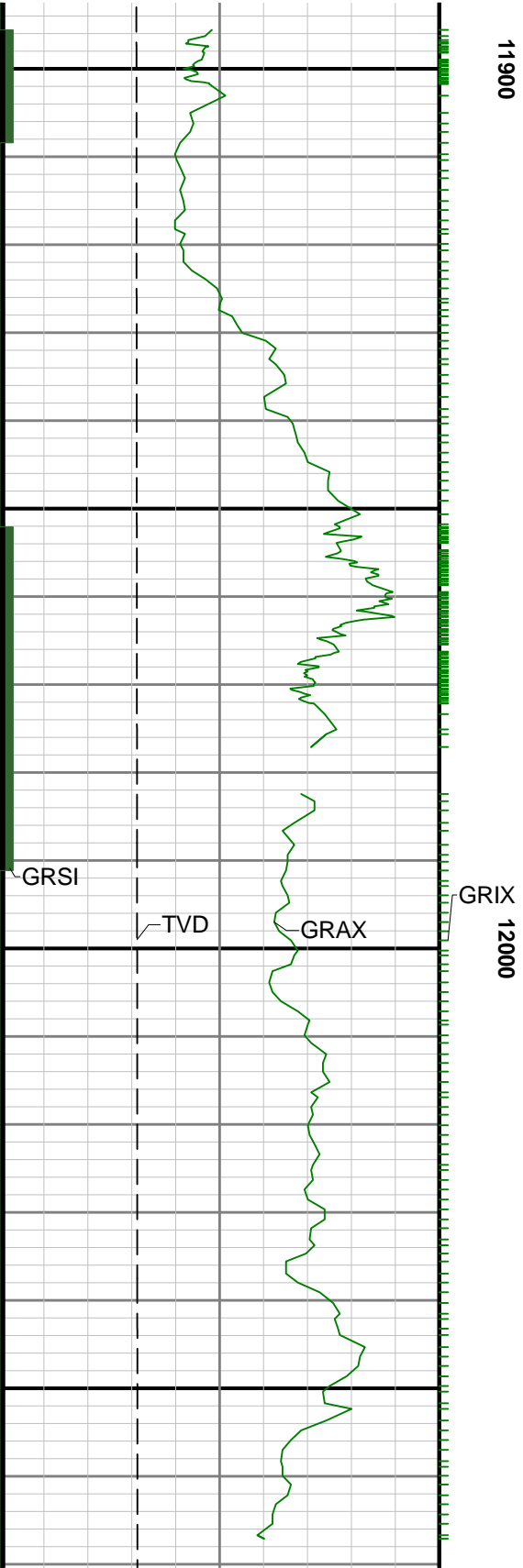


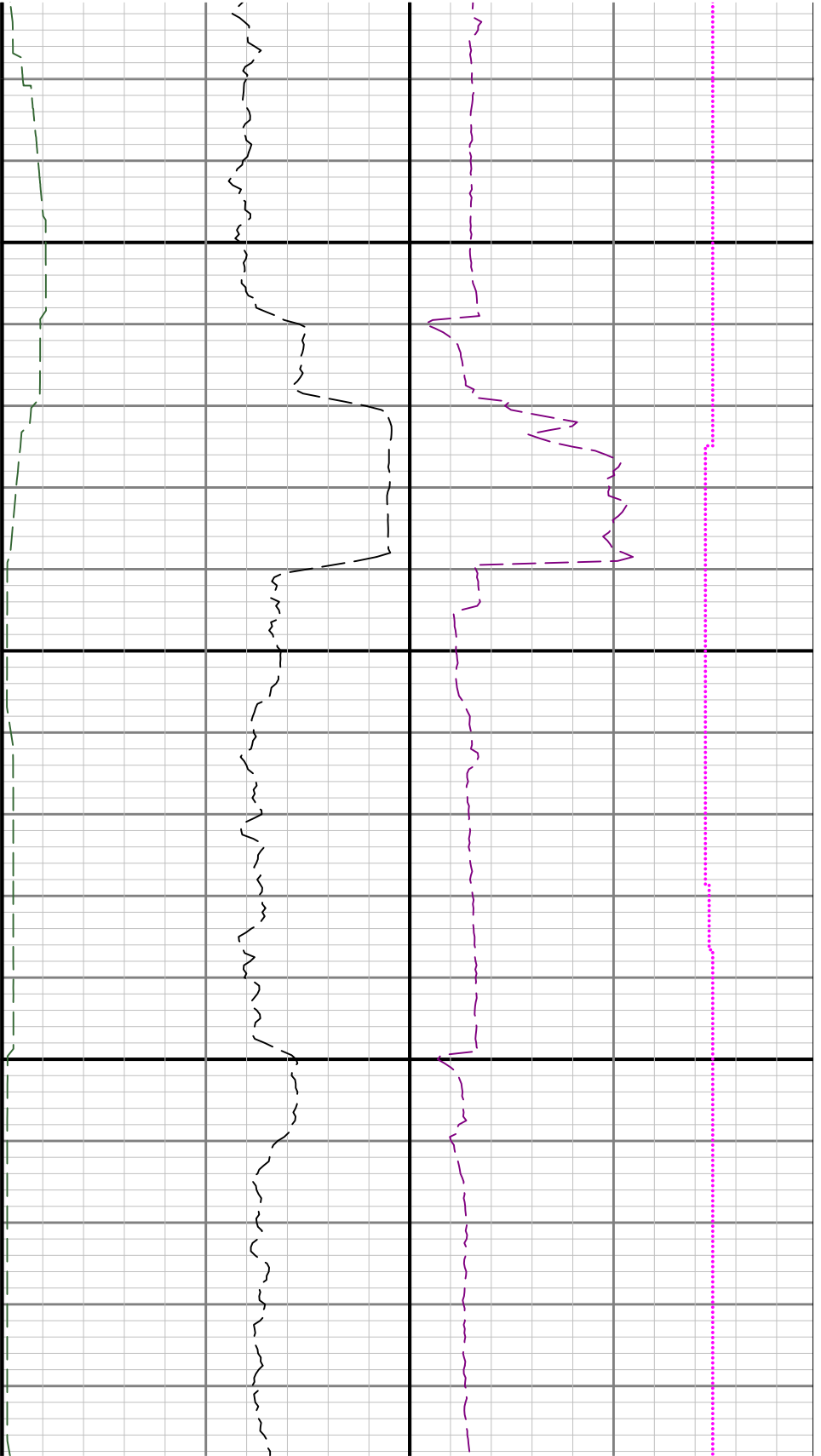




11800







12100

12200

