



Real Time Log

Natural Formation Evaluation  
Gamma Ray

Scale:  
  
1:240  
Measured Depth

Company: Anadarko

Well: ENCORE 1C-12HZ

Field: Larimer County

County: Larimer County State: Colorado

Status:

Final Print

Surface Location:

Latitude: 40° 25' 13.570" N

Longitude: 104° 57' 47.113" W

Other Services:

Directional  
VSS

API Number:  
050690647900

SEC: 12

TWP: 5N

RNG: 68W

Permanent Datum (P.D.): Mean Sea Level

Elevation:

4990.00 ft.

Elevations:

N/A

Log Measured From:  
Depth Reference:

Rig Floor

16.00 ft.

Above P.D.

KB:  
DF:  
GL:

5006.00 ft.  
4990.00 ft.

Interval Logged

Dates

Magnetic Field Reference

Top: 6800 ft. Date From: 03/Aug/15 Dip Angle: 66.77° Azi Reference North: True

Bottom: 14168 ft. Date To: 07/Aug/16 Total Mag to Reference

Spud Date: 03/Aug/15 Field Strength: 52783.0 nT North Correction: 8.59°

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
13,500 in.	Surface	1871 ft.	9.625 in.	n/a	Surface	1861 ft.
8,500 in.	1871 ft.	14168 ft.				

Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Diesel-Oil Based	Surface	14168 ft.	8,500 in.	12297 ft.	18.8° / 271.5°	89.2° / 90.5°
					/	/
					/	/
					/	/
					/	/
					/	/
					/	/
					/	/
					/	/

Acquisition System Software Version

Other

Advantage	2.20U4	Rig:	Xtreme 23	/ Xtreme Drilling
PATS	6.4.1.34	Job No:	7422236	
		District / Unit:	RMD	/ D&E

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Log Run Summary

LWD Run No.	BHA Run No.	Bit Run No.	Bit Size (in.)	Bit Type	Bit Gauge Length (in.)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Time (hrs.)
							Top	Bottom	From	To	Start	End	
							(ft.)	(ft.)	(ft.)	(ft.)			
1	1	2	8.500	PDC	3.000	Steerable	6813	14168	1871	14168	04/Aug/2015 01:23	07/Aug/2015 04:52	67

Crew

Name			Arrive	Depart	Name			Arrive	Depart	Name			Arrive	Depart
			Wellsite	Wellsite				Wellsite	Wellsite				Wellsite	Wellsite
Andrew Clancy			Aug 03 2015	Aug 07 2015	Sumanth Belawadi			Aug 03 2015	Aug 07 2015					

Mud Properties Record

Date / Time	LWD	Measured	Mud	Density	Viscosity	pH	Fluid	Oil /	Source	Total	K+
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		Run No.	Depth  (ft.)	Type	(ppg)	(cp)		Loss  (cc)	Water		Chlorides  (ppm)	(%)
03/Aug/2015	23:55	1	1871	Diesel-Oil Based	8.8	40	N/A	N/A	71 / 28	Active Mud Pit	55000	N/A
04/Aug/2015	20:37	1	6624	Diesel-Oil Based	8.8	40	N/A	N/A	63 / 28	Active Mud Pit	67000	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. Avg	API
GRIX	Gamma Ray Data Density	points
GRSI	Gamma Ray Sliding Indicator	unitless
GRTX	Gamma Ray Time Since Drilled	min
ROPA	Rate of Penetration, 3.0 ft. Avg	ft/hr
TCDX	Downhole Temperature	degF
TVD	True Vertical Depth	ft.
WOBA	Surface Weight on Bit, 1.0 ft. Avg.	klbs

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	11814673	Directional	64.24	6.780	3.250
1	SRIG	11734844	Gamma	60.90	6.780	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

Comments

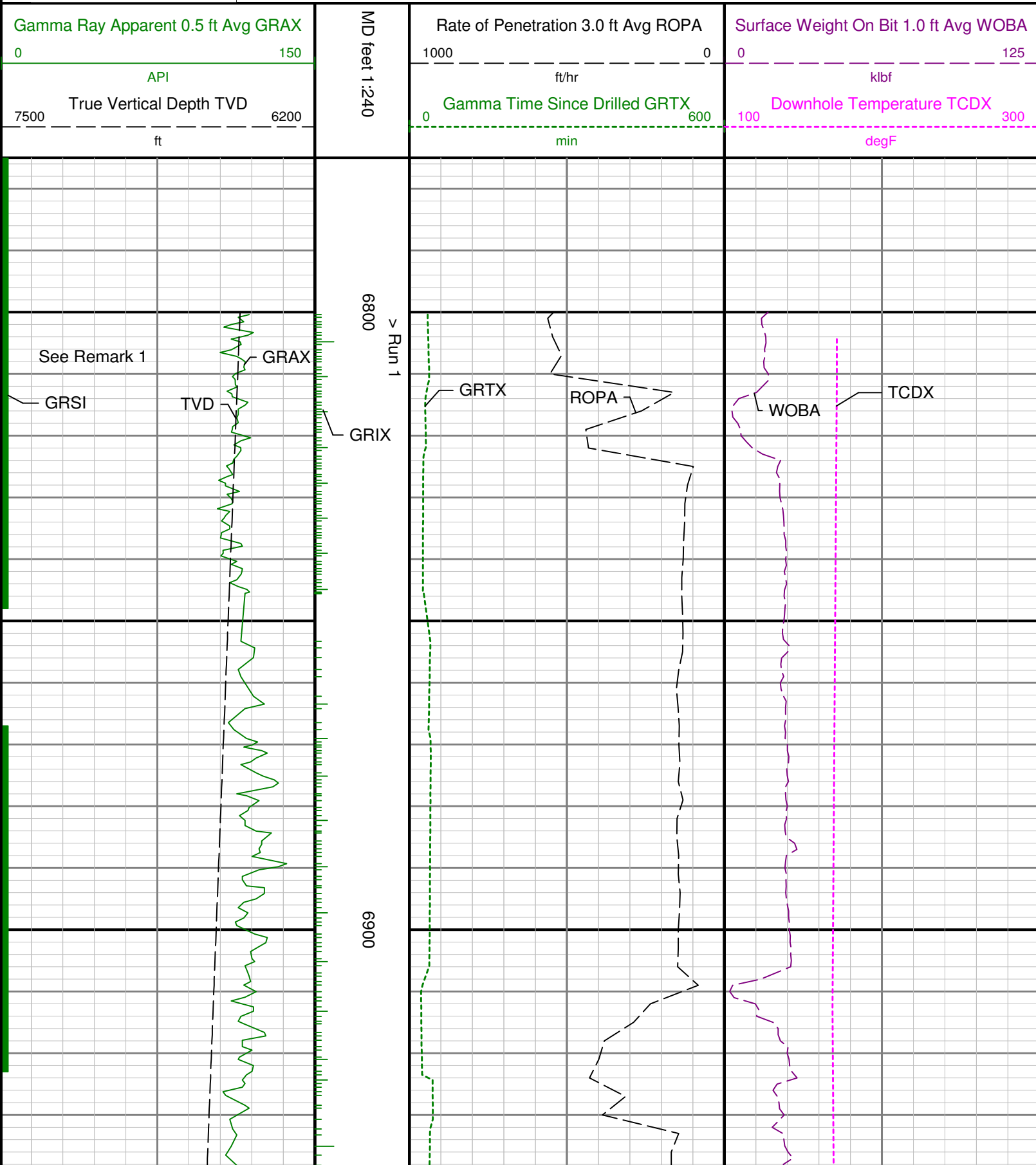
1.) Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to represent logging data.
2.) Baker Hughes Run 1 utilized a 6 3/4 inch NaviGamma (Directional and Gamma Ray) tool behind an 7 1/2 inch bit and steerable assembly from 1871 to 14168 feet MD (1871 to 7303.47 feet TVD).
3.) A sliding indicator is shown on the left side of track 1 as a heavy line. This indicator has been depth-shifted to the Gamma Ray sensor offset to correspond with Gamma Ray data acquired while sliding.

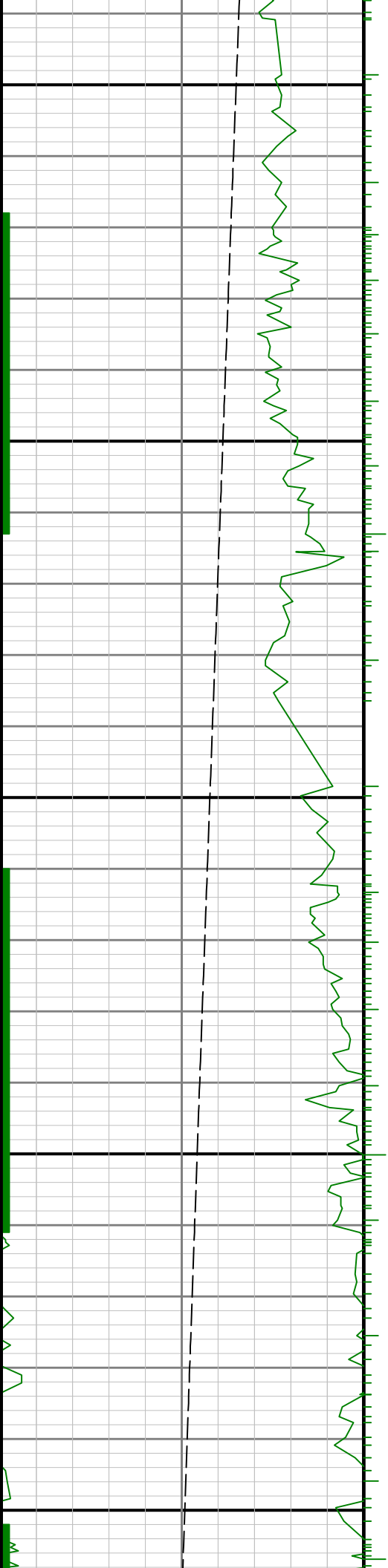
Remarks

Number	Measured Depth (ft)	Hole Section (in.)	LWD Run No.	Remark
1	6800	8.500	1	Logging services began at 6800 feet MD. No logging data prior to 6800 feet MD (6522.66 feet TVD) as per client's request.
2	14168	8.500	1	The interval from 14106 to 14168 feet MD (7306.72 to 7303.47 feet TVD) was not logged due to gamma sensor offset to bit at TD.



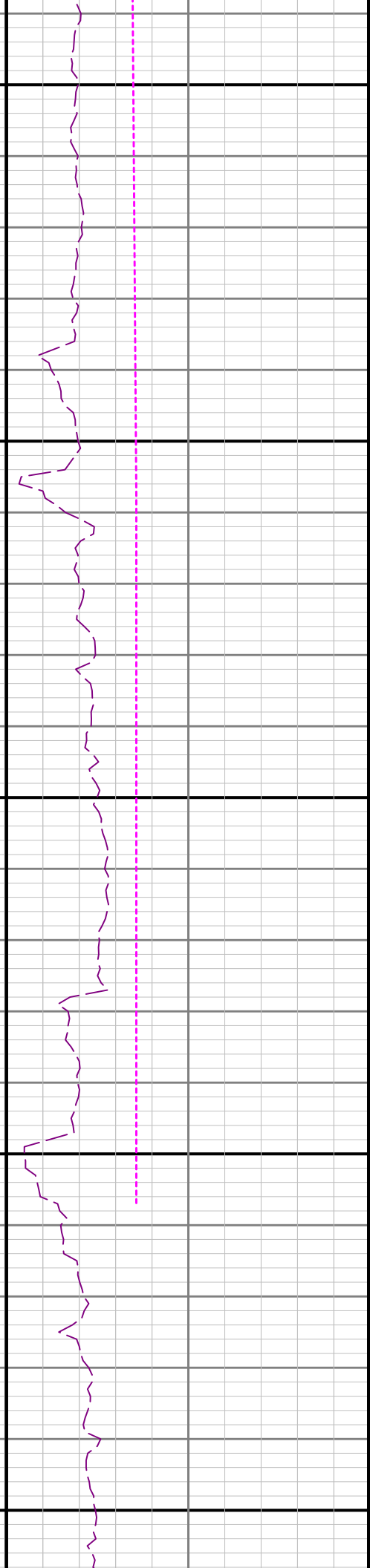
Company : Anadarko  
Well : ENCORE 1C-12HZ  
Interval : 6775.00 - 14195.00 feet  
Created : 07/Aug/2015 5:41:32 AM

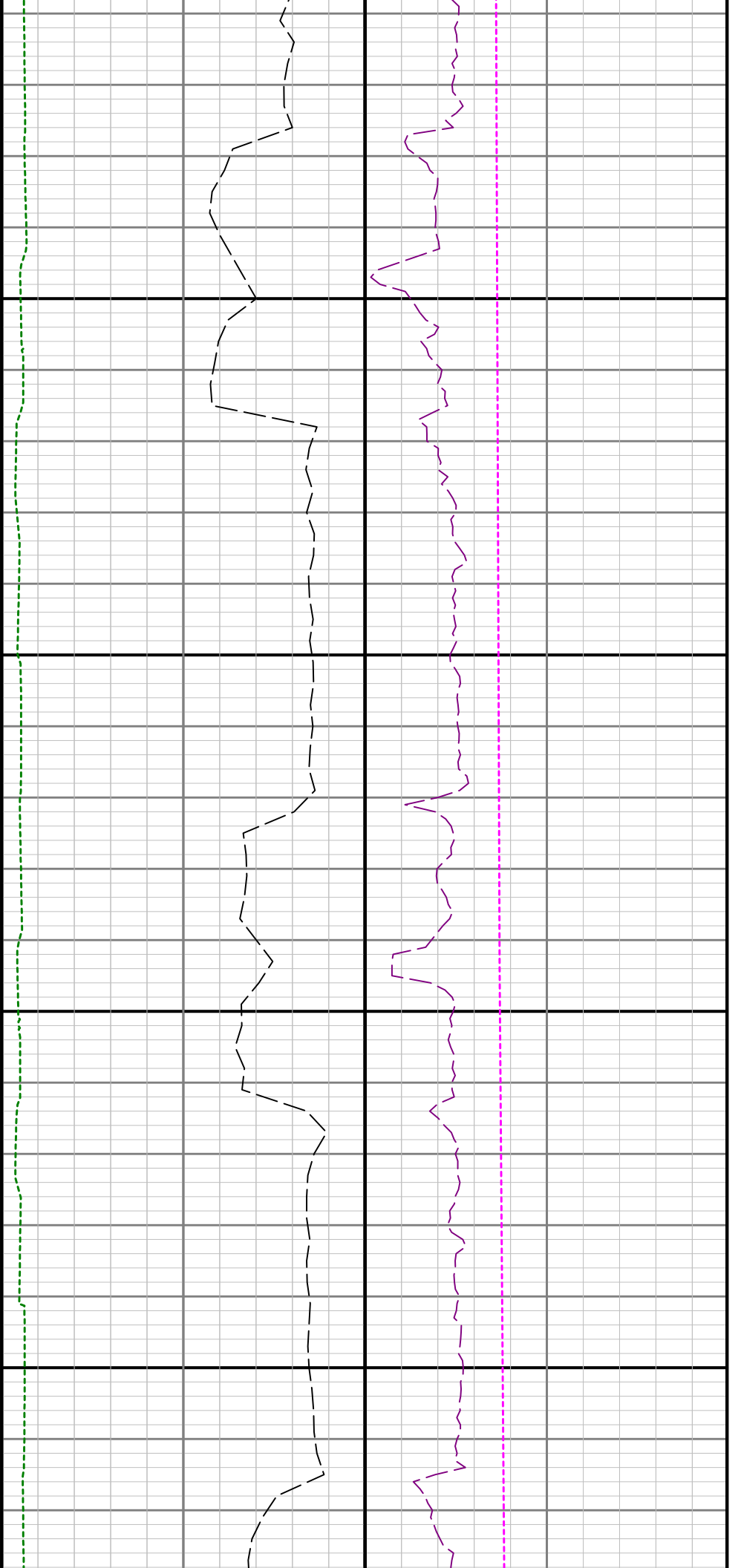




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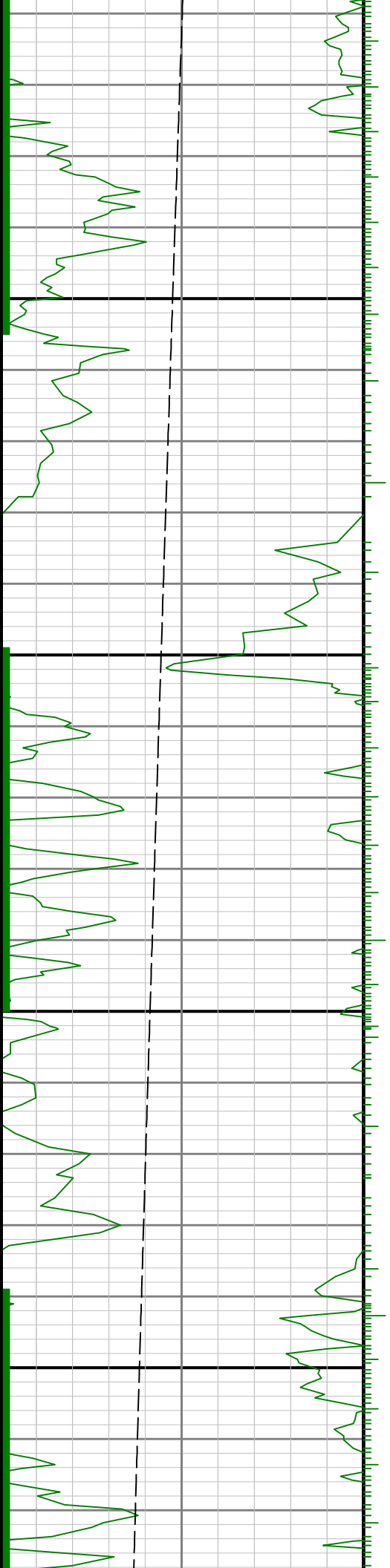
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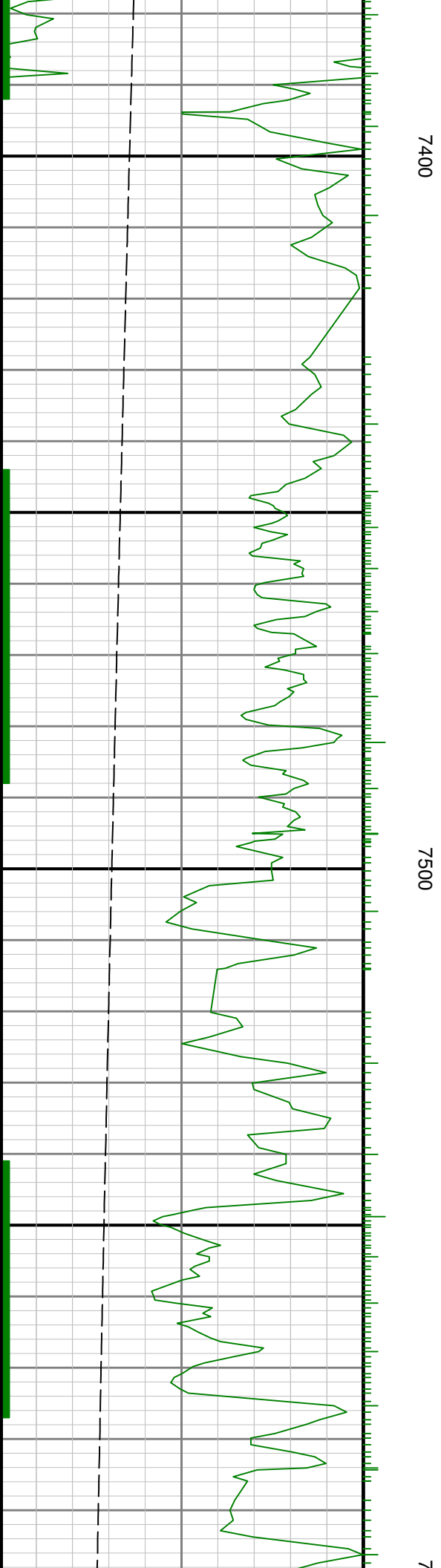
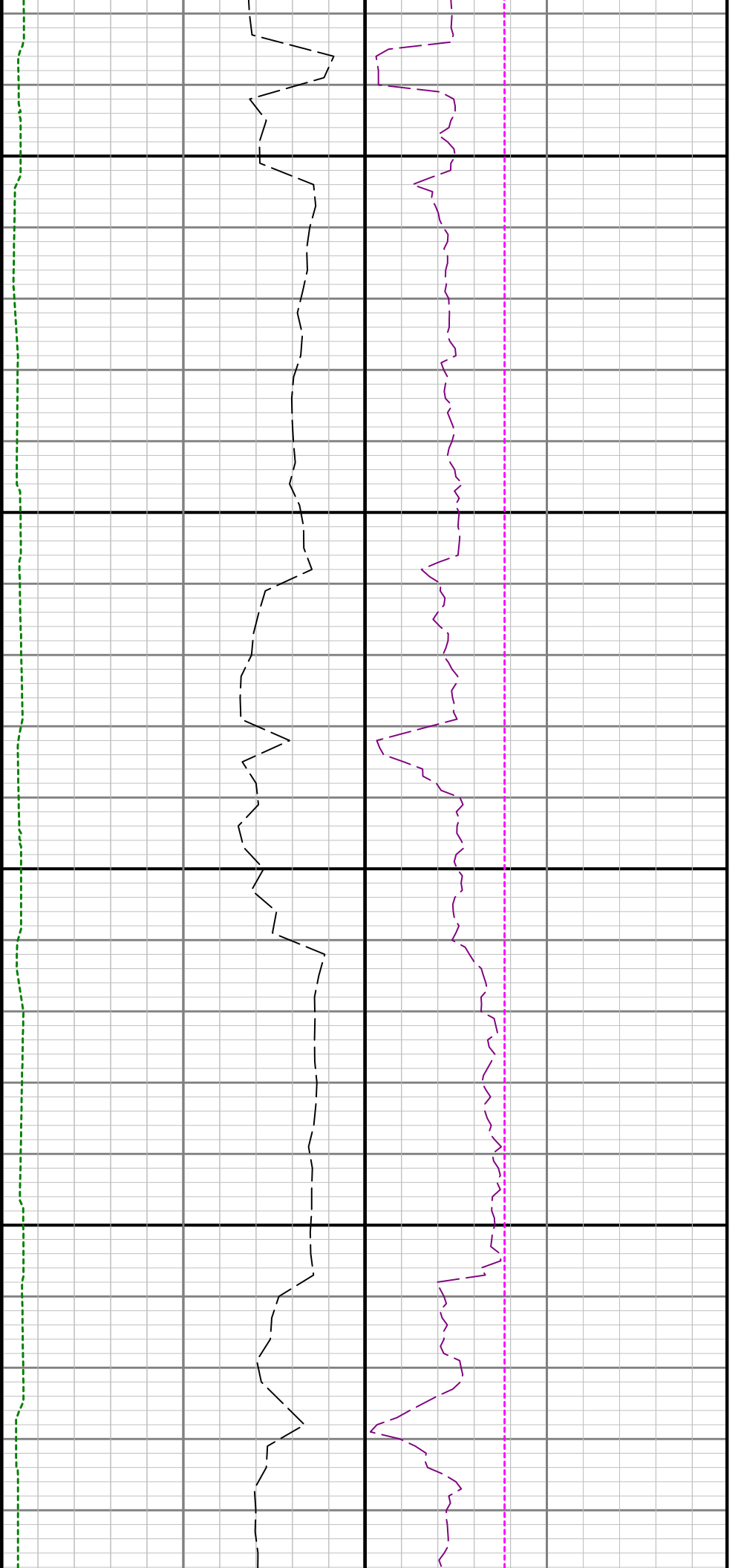


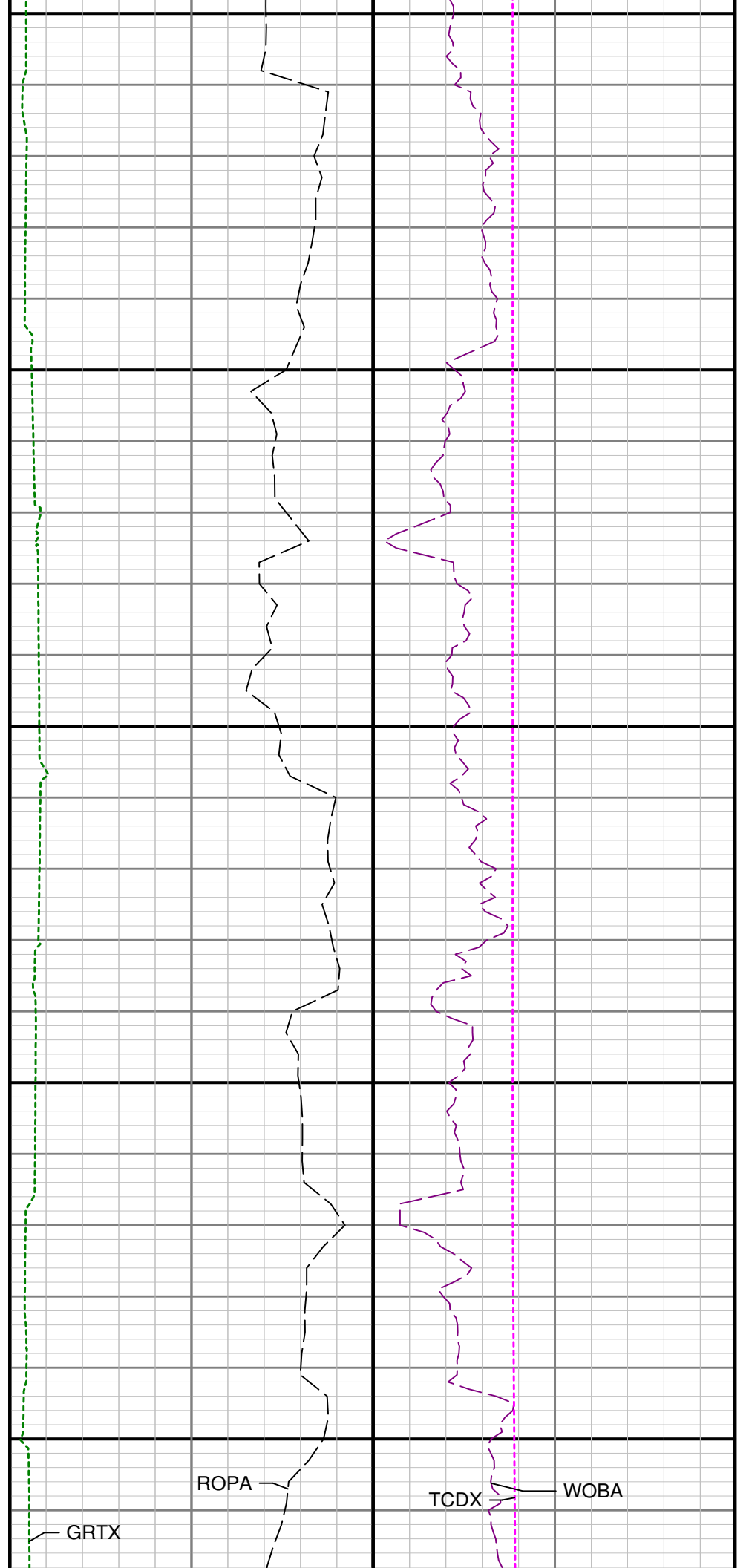
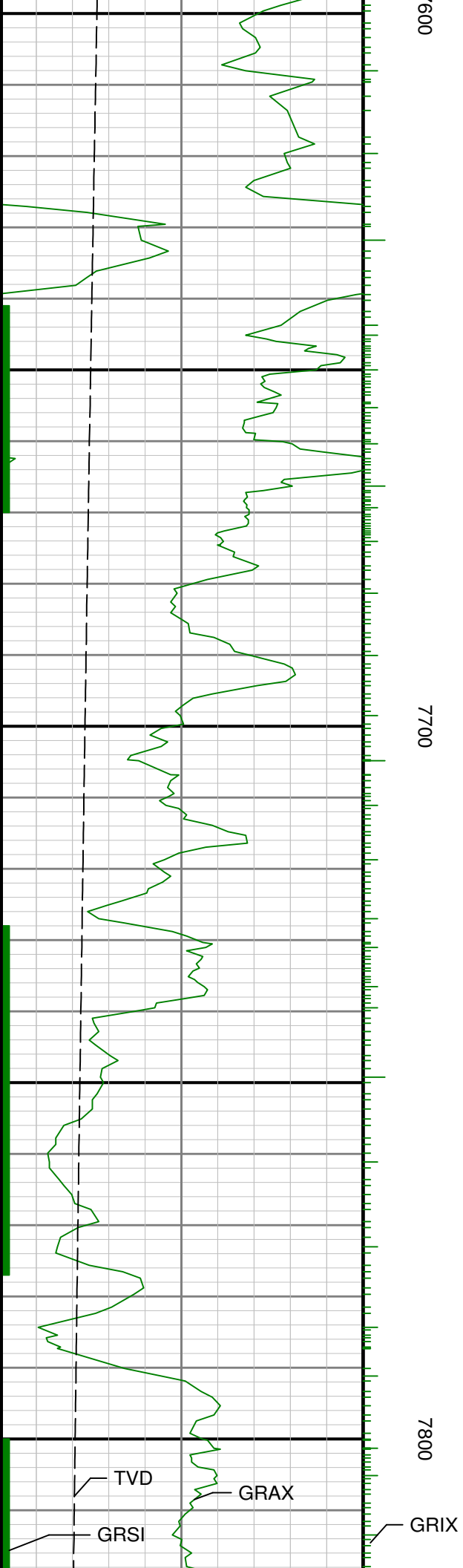


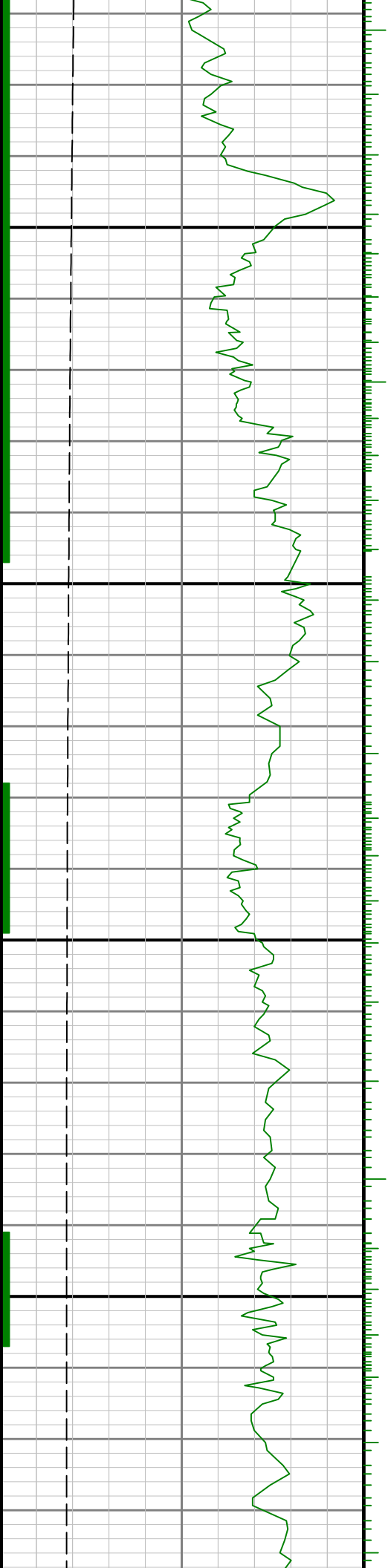
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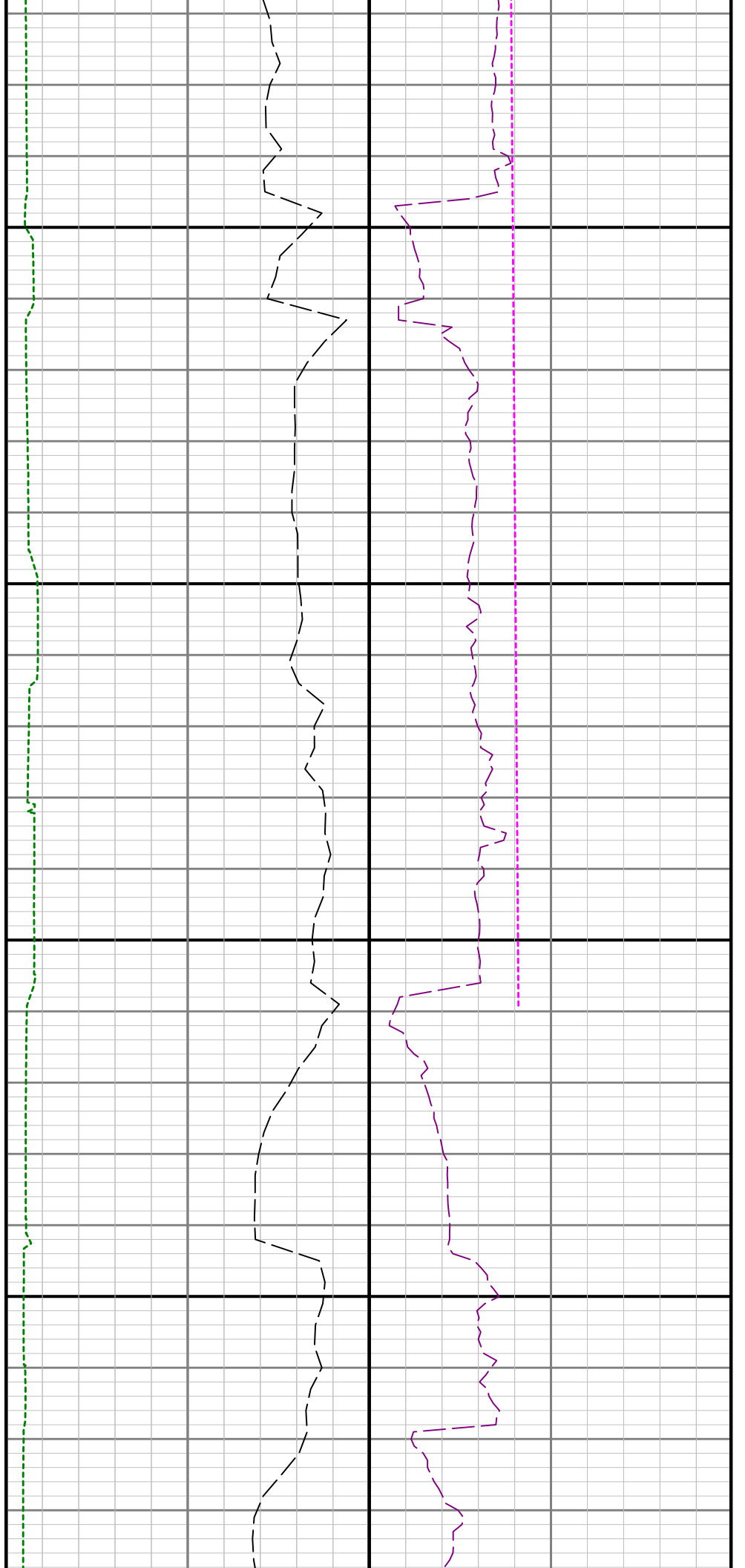


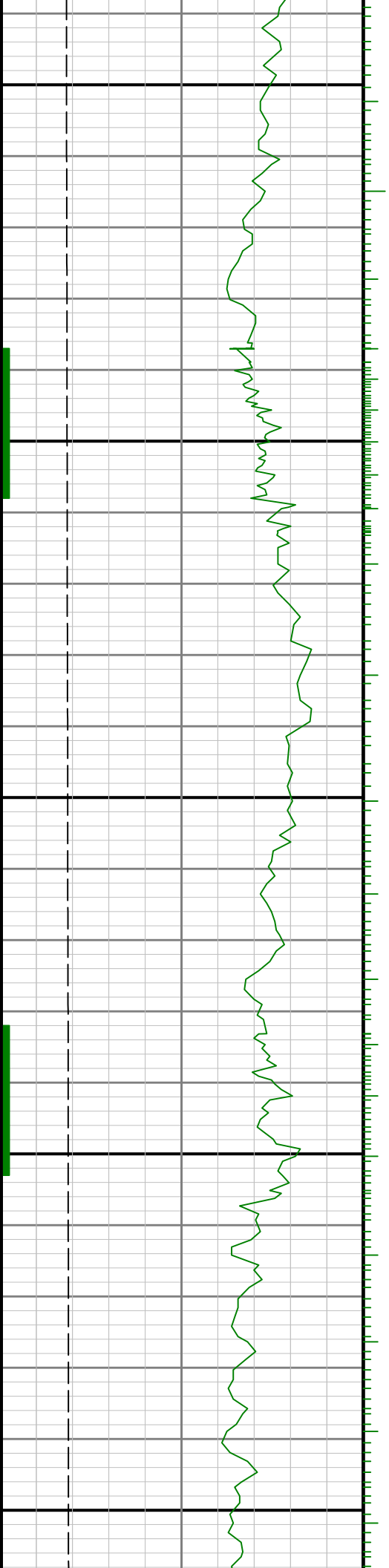
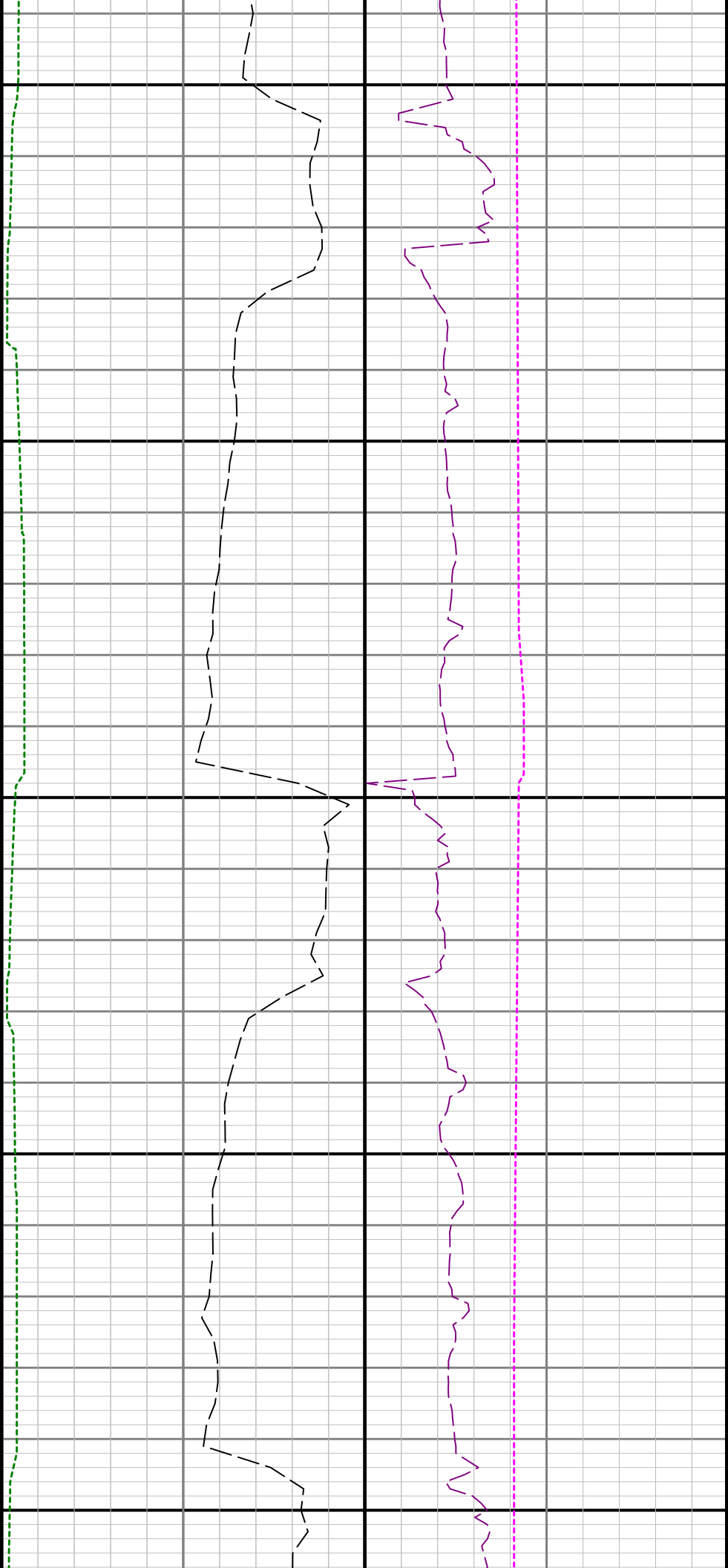


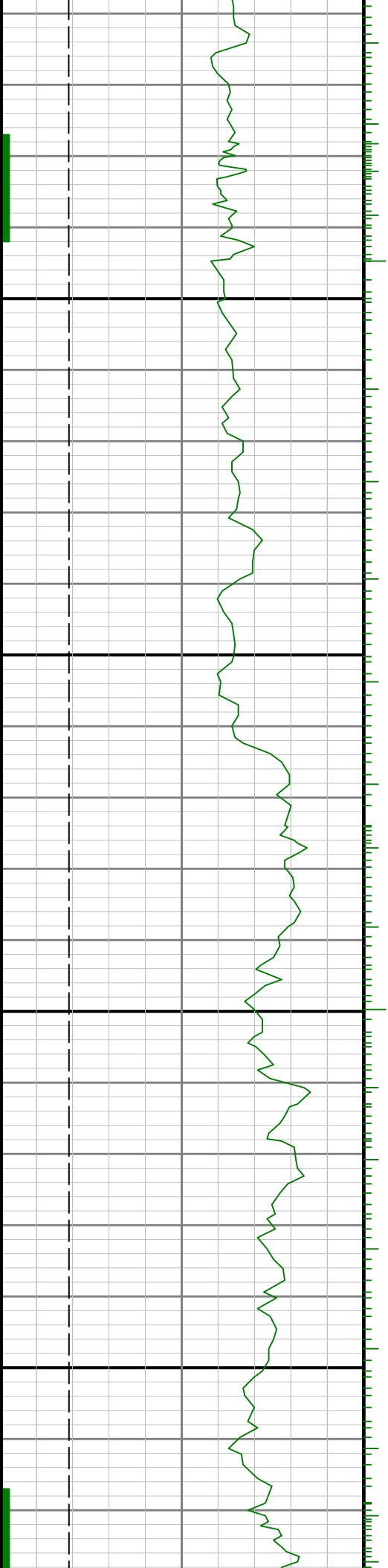


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0008

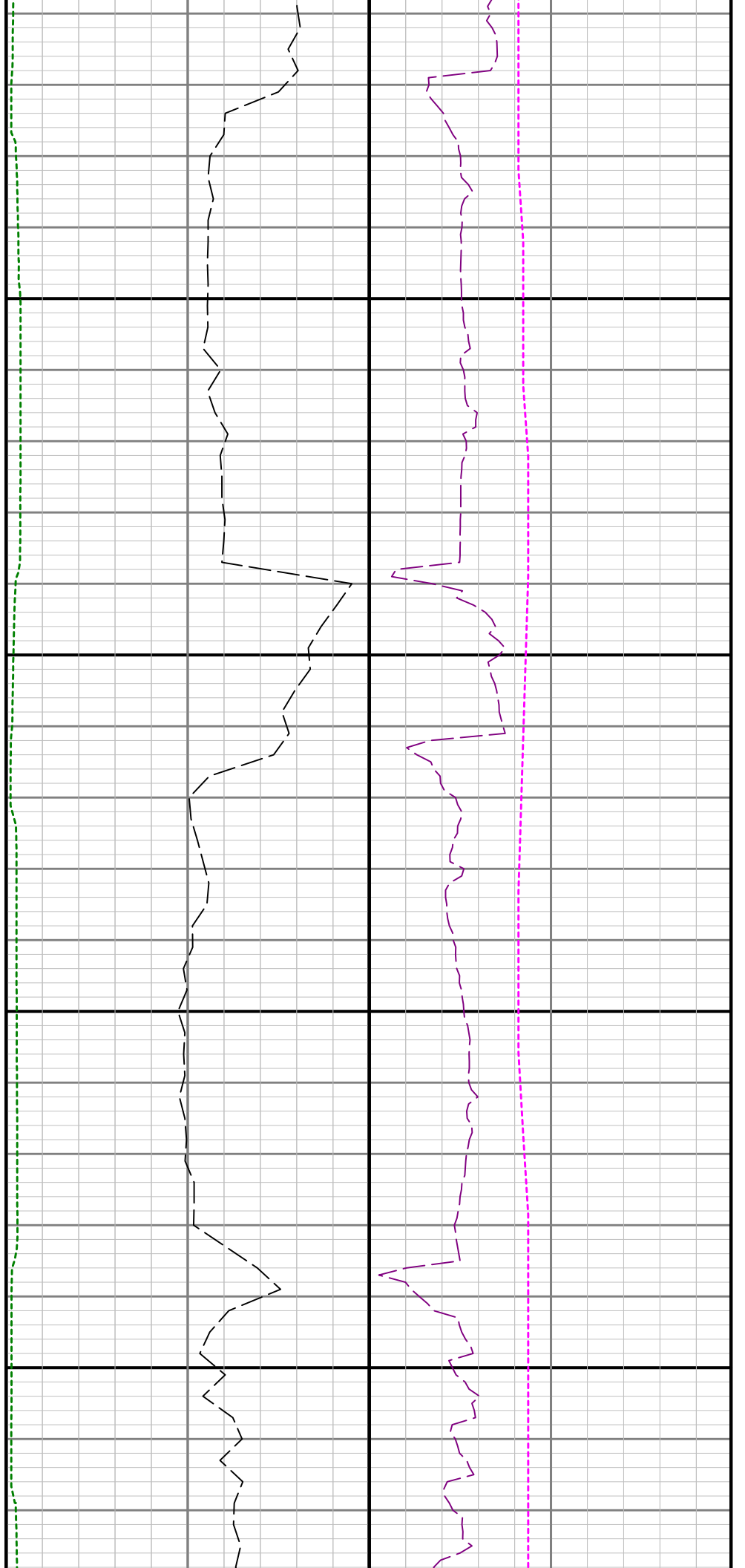


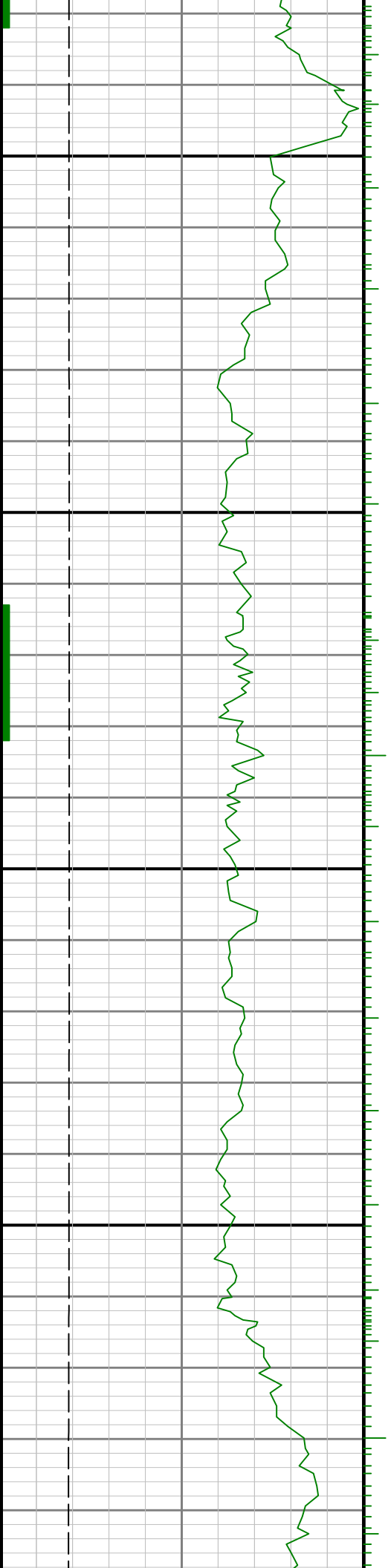




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8400

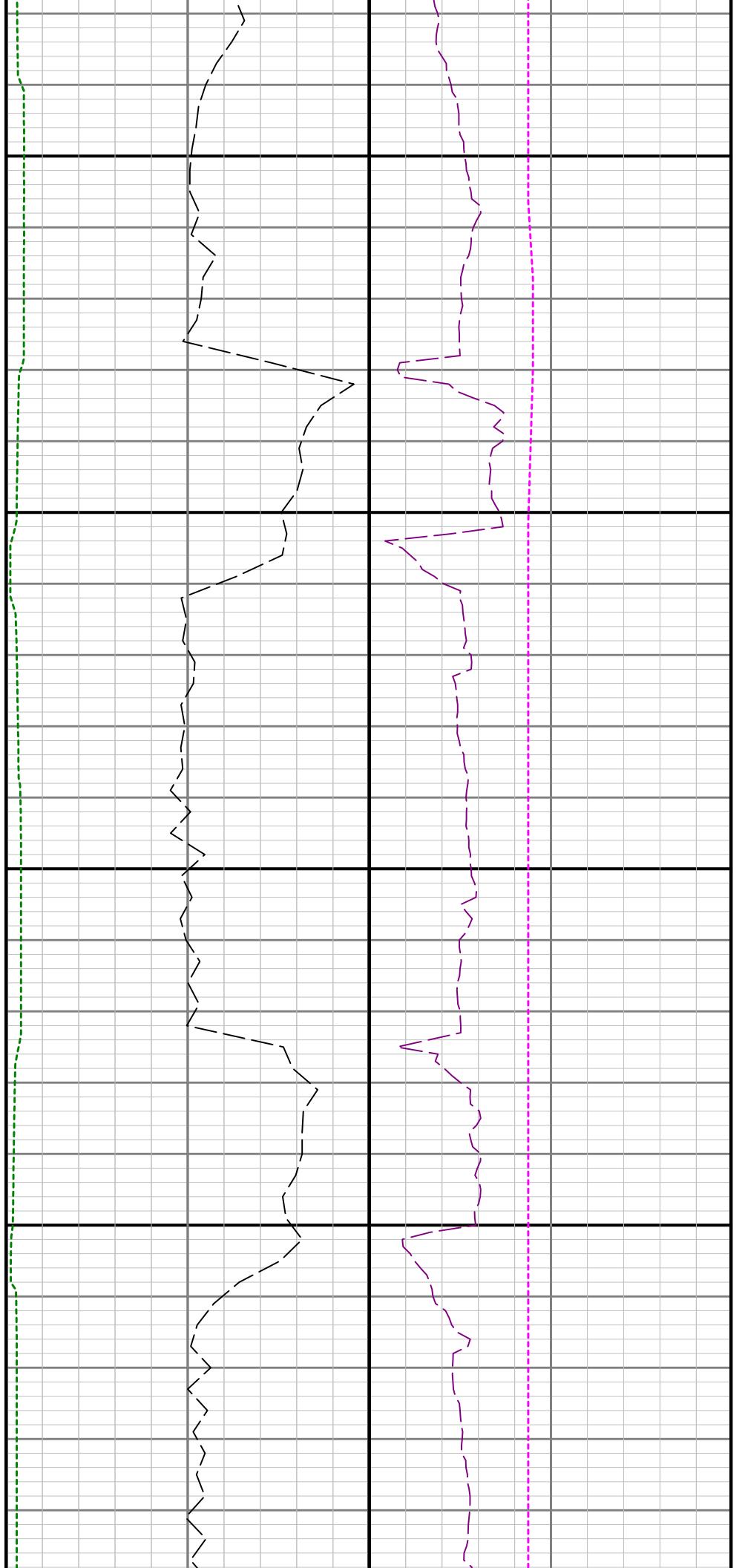


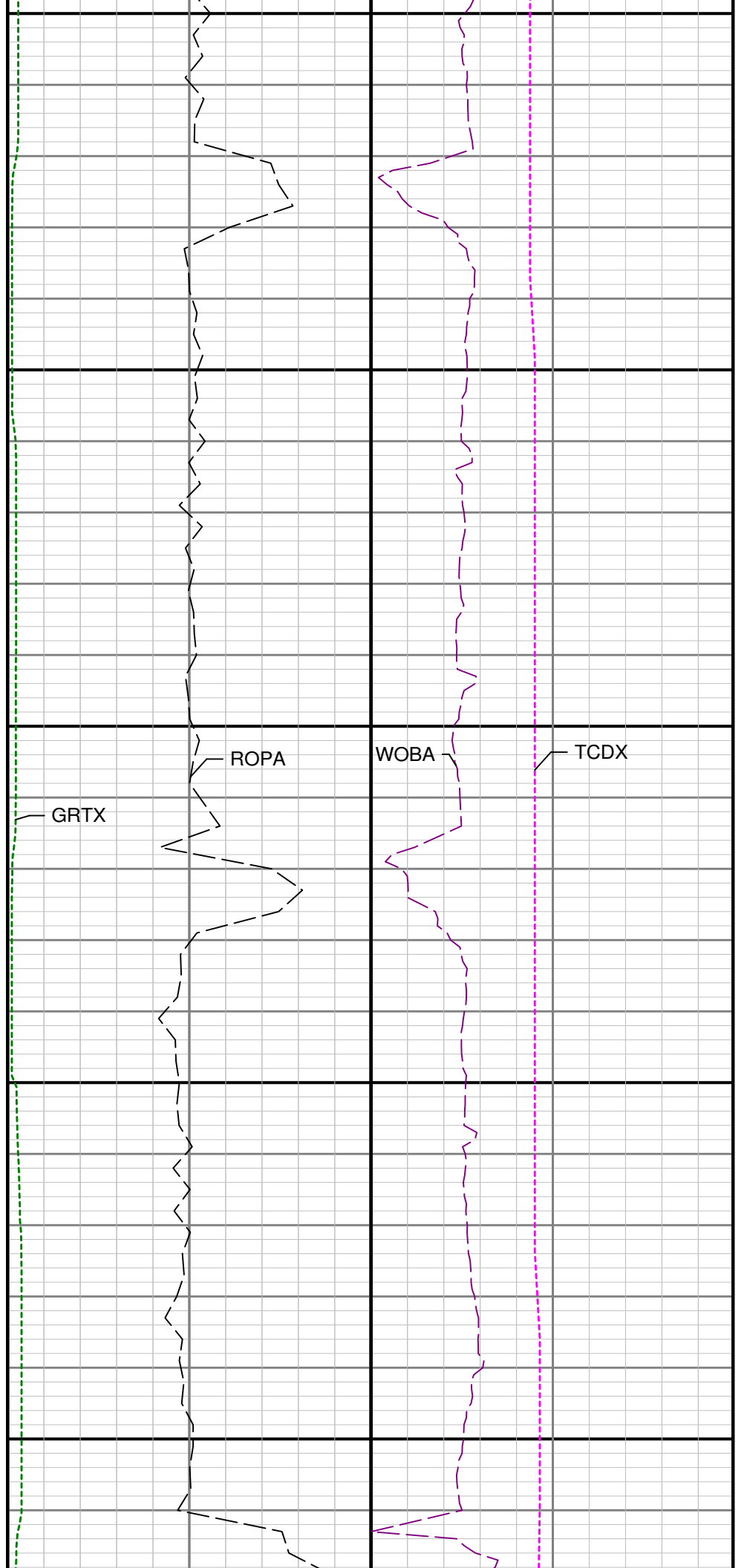
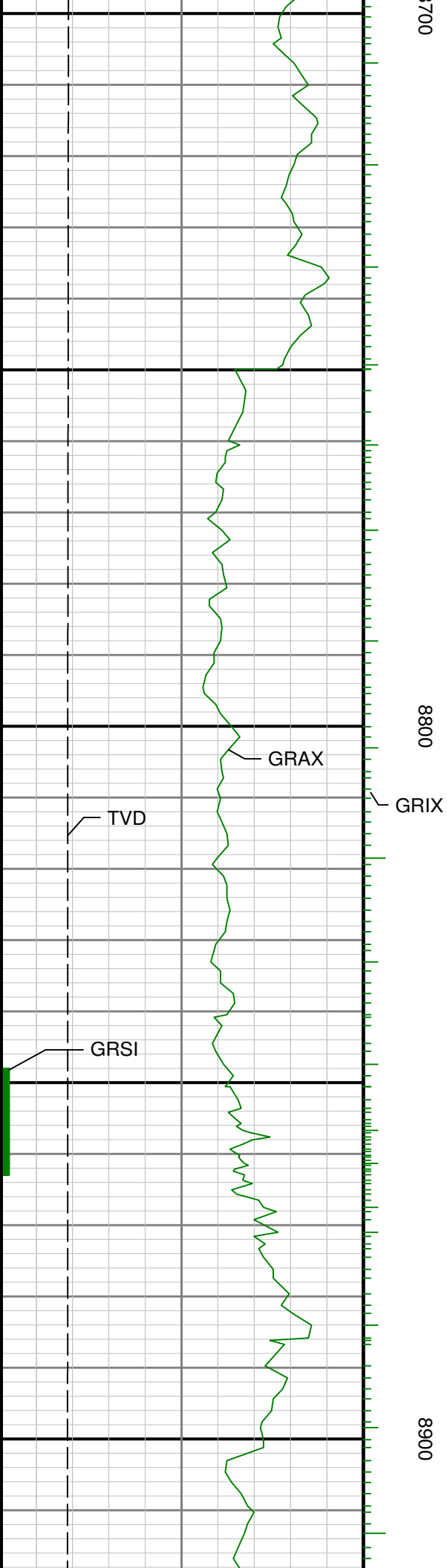


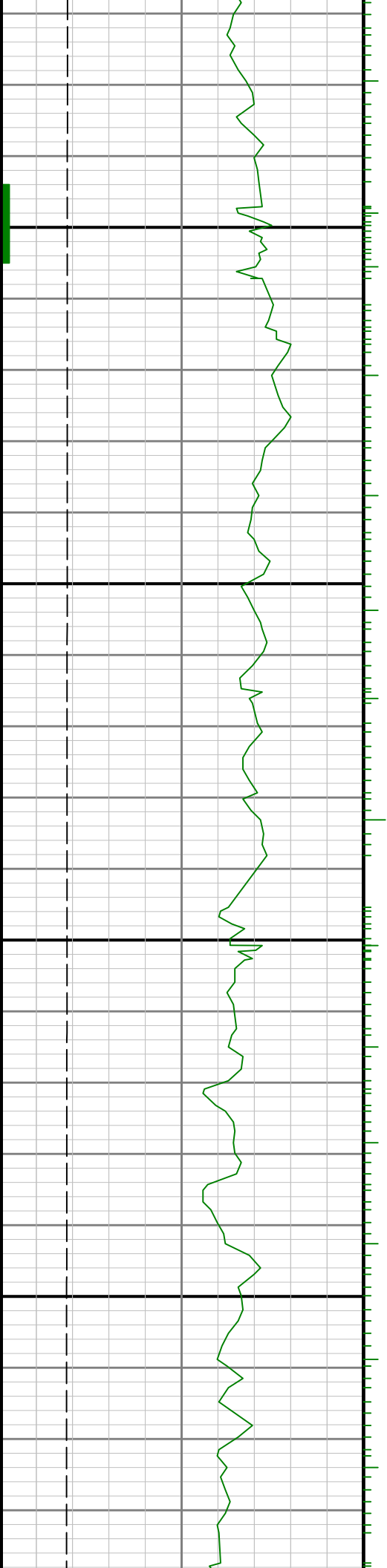
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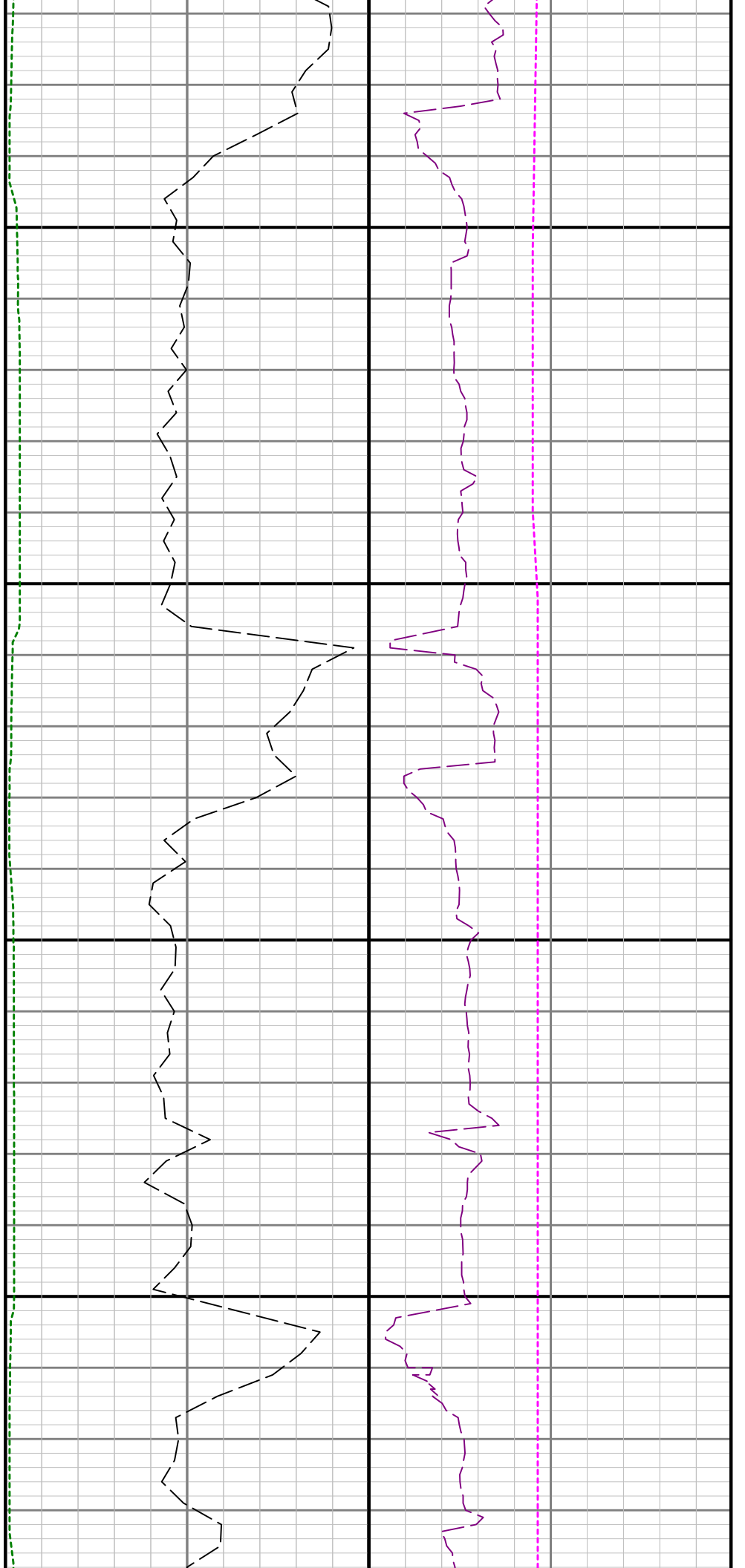


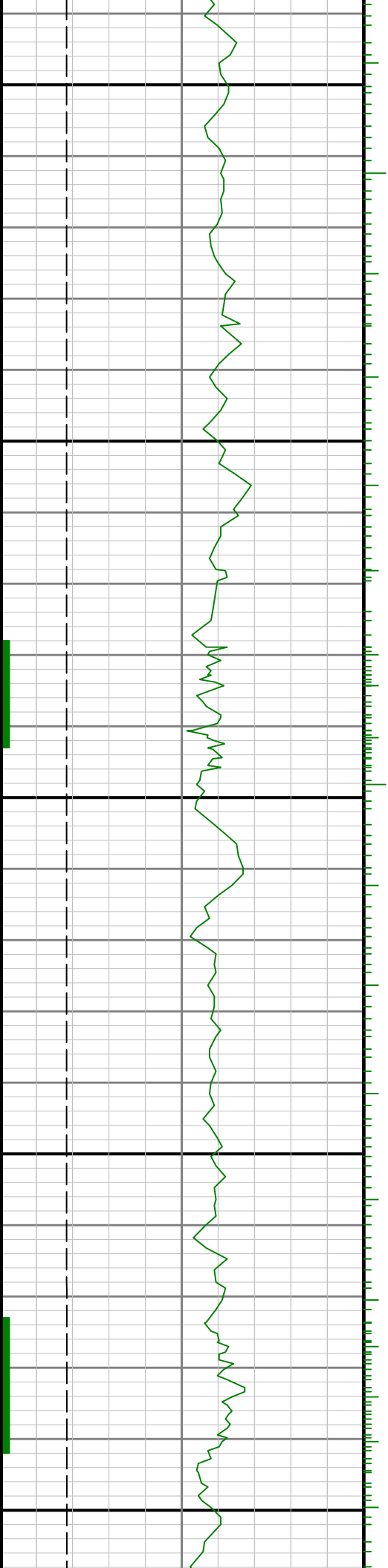




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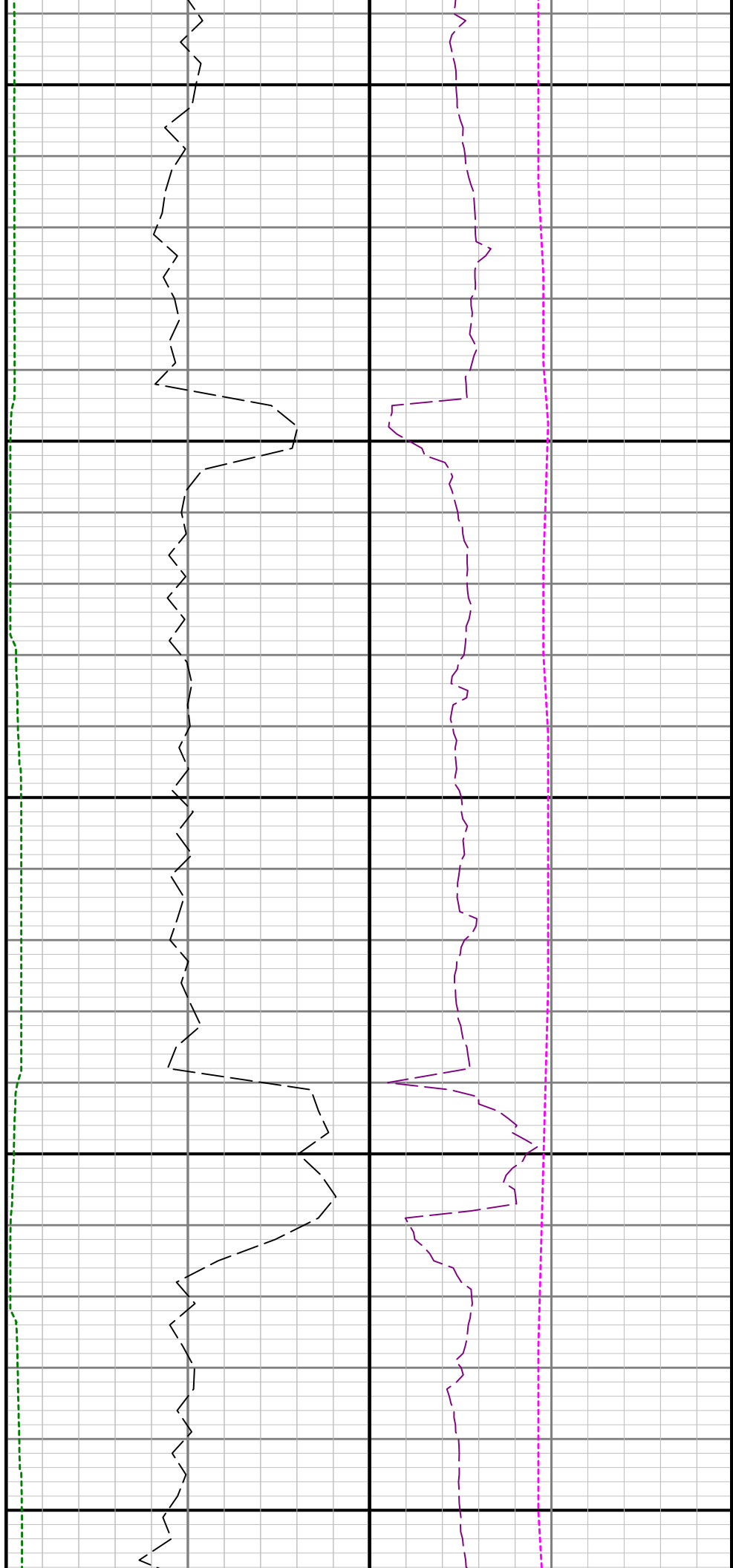
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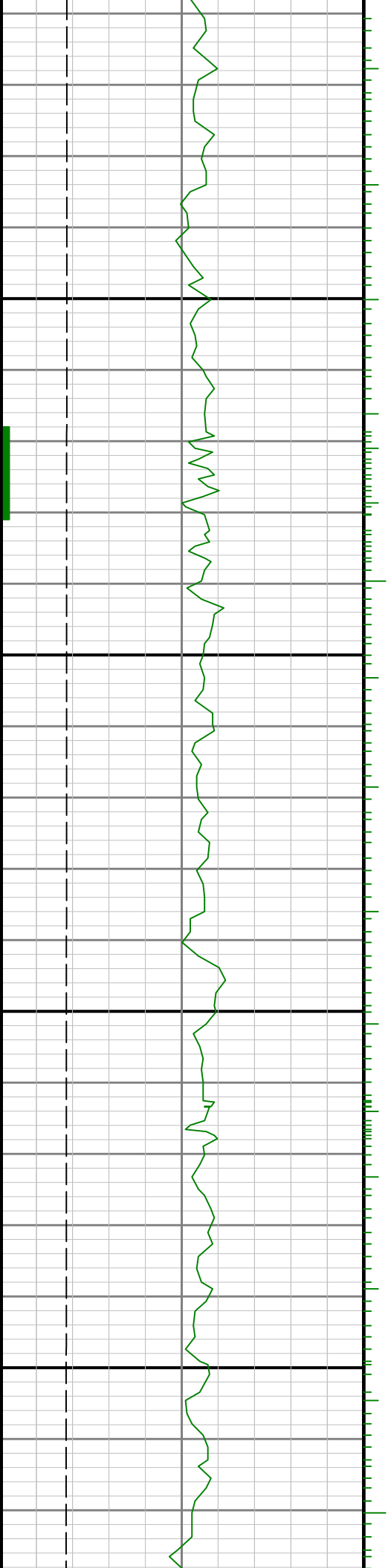




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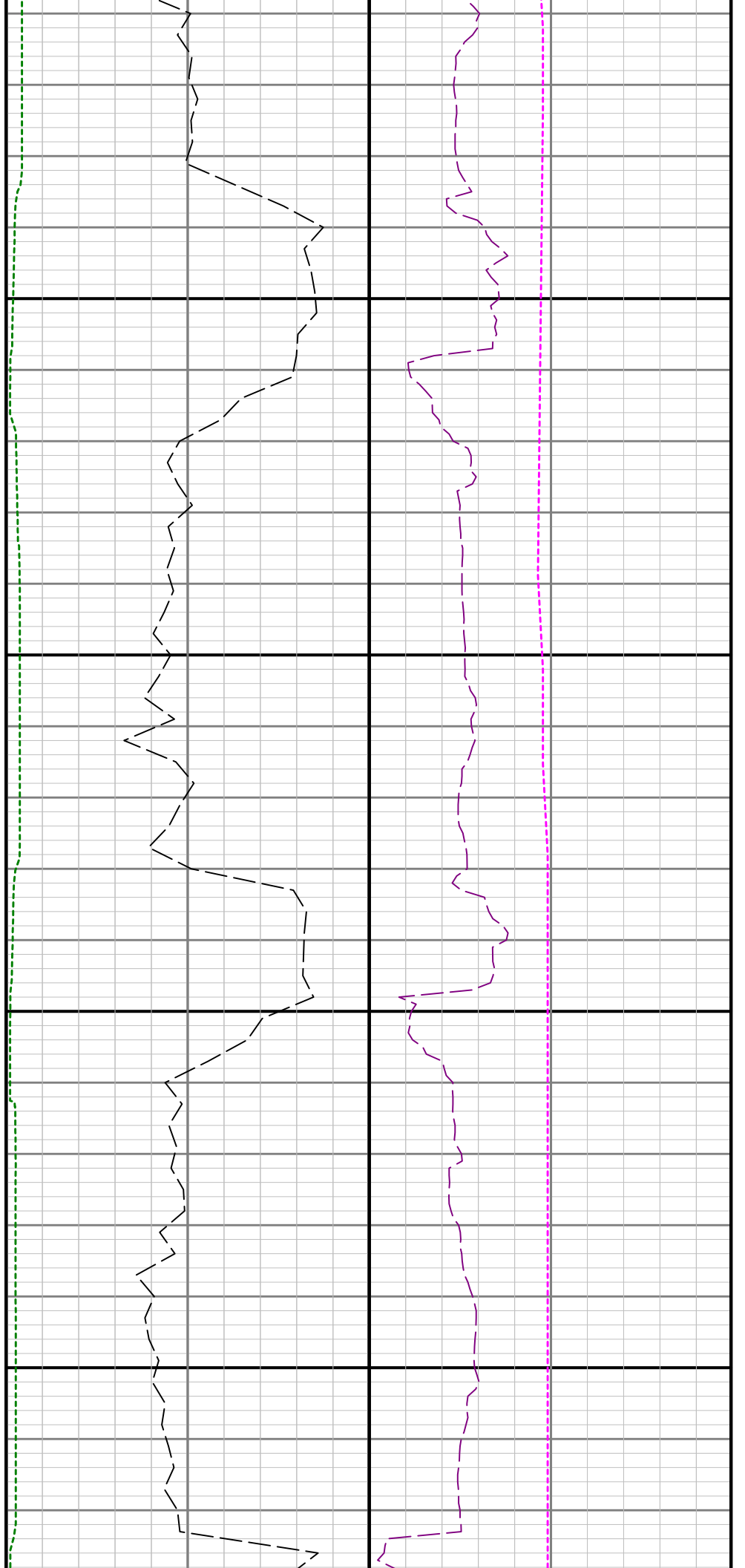
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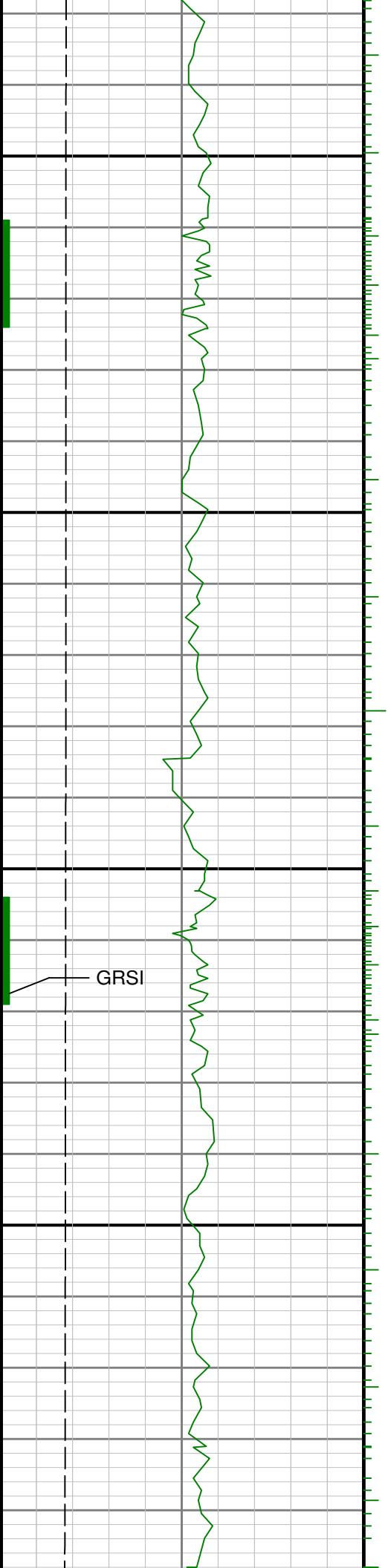




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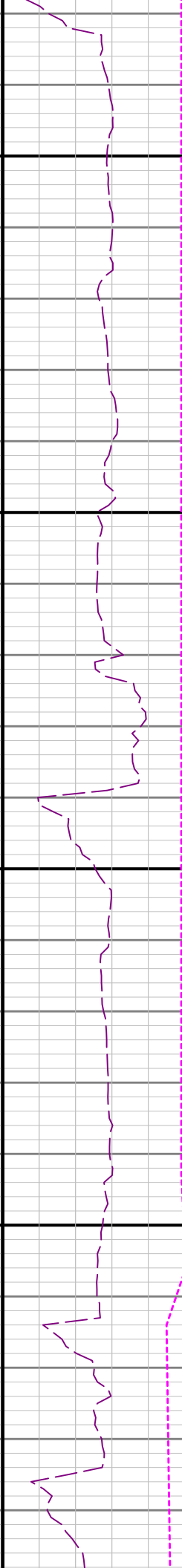


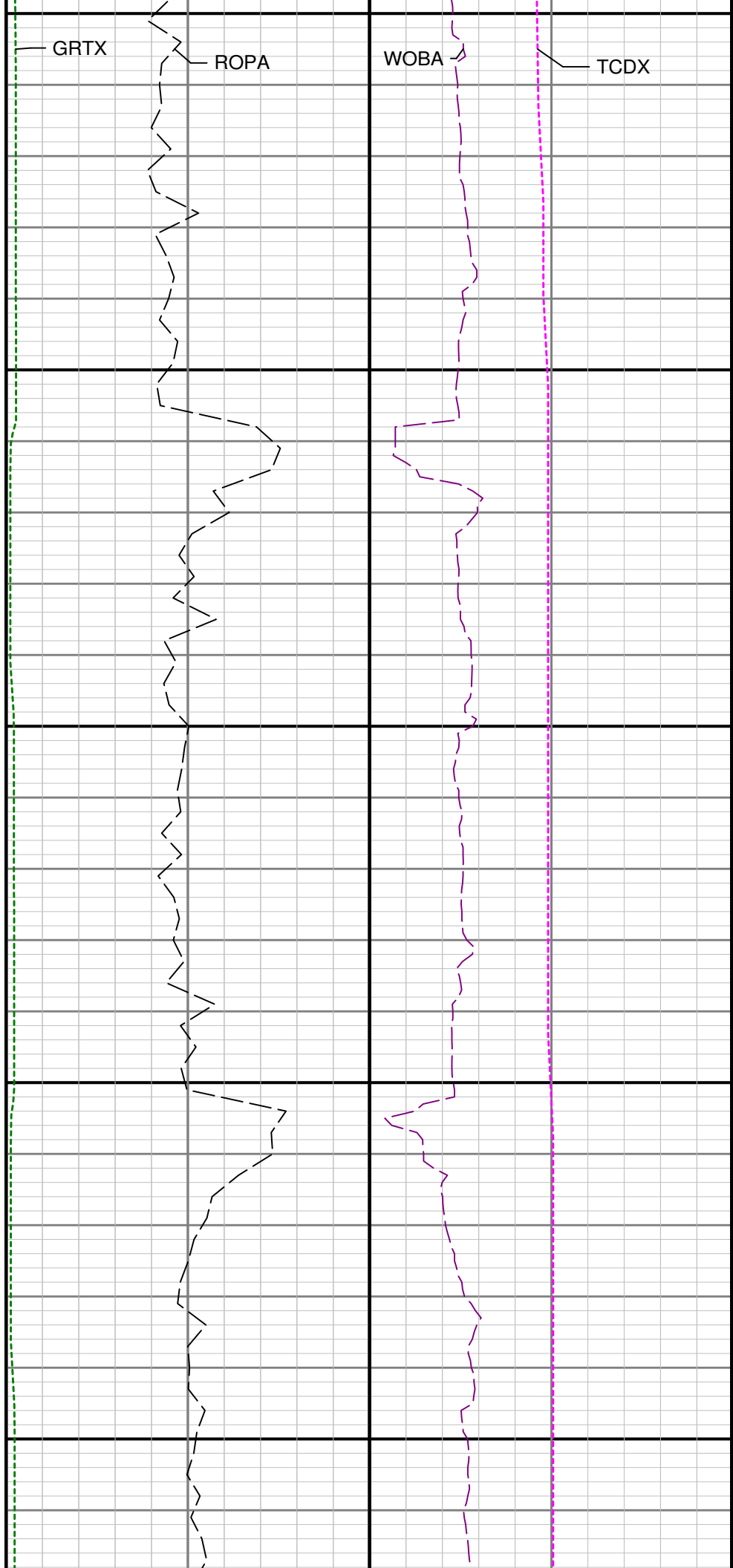
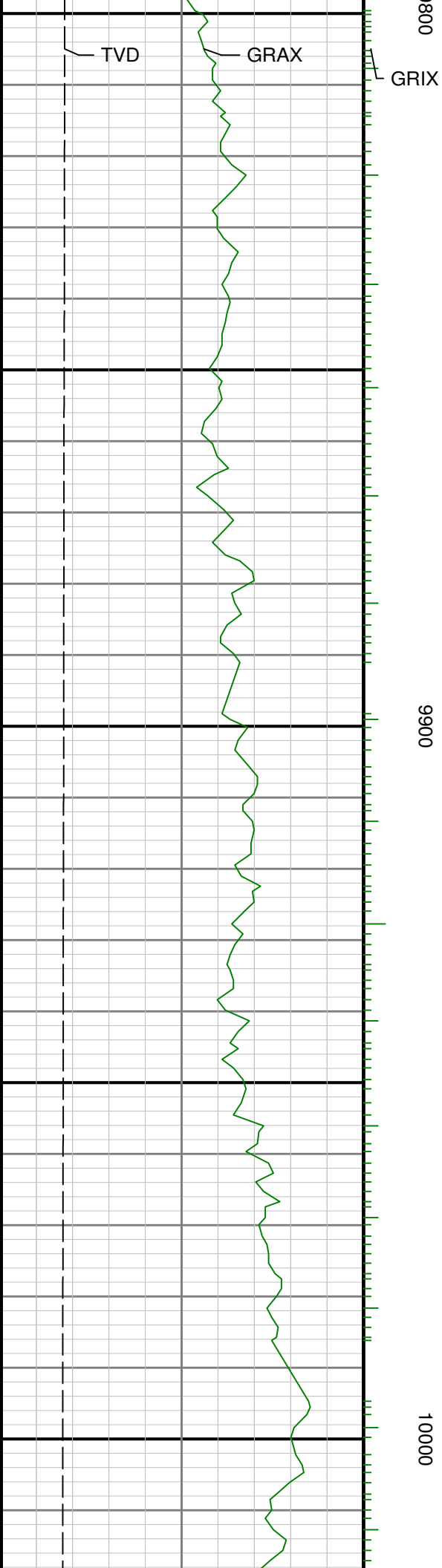


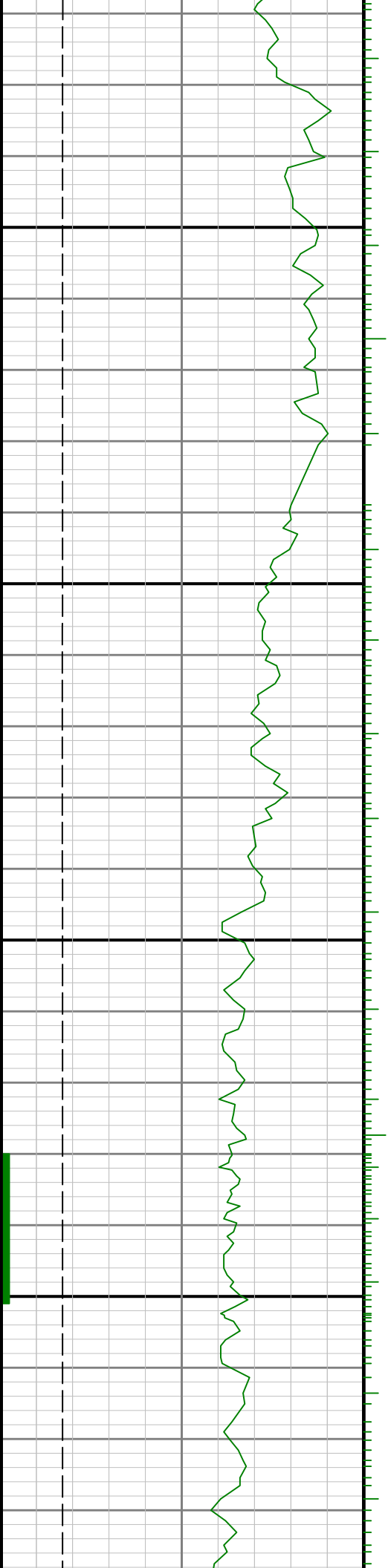
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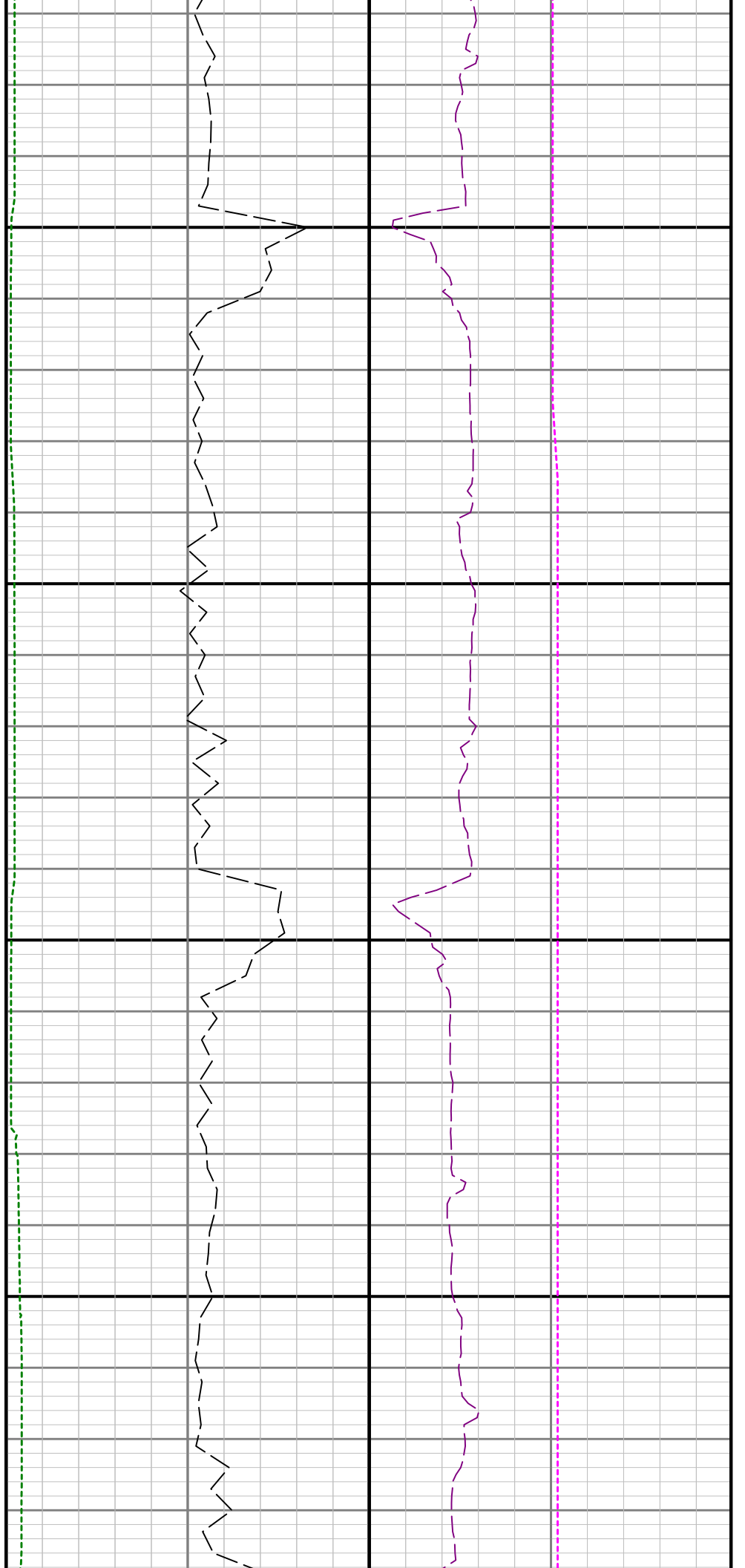


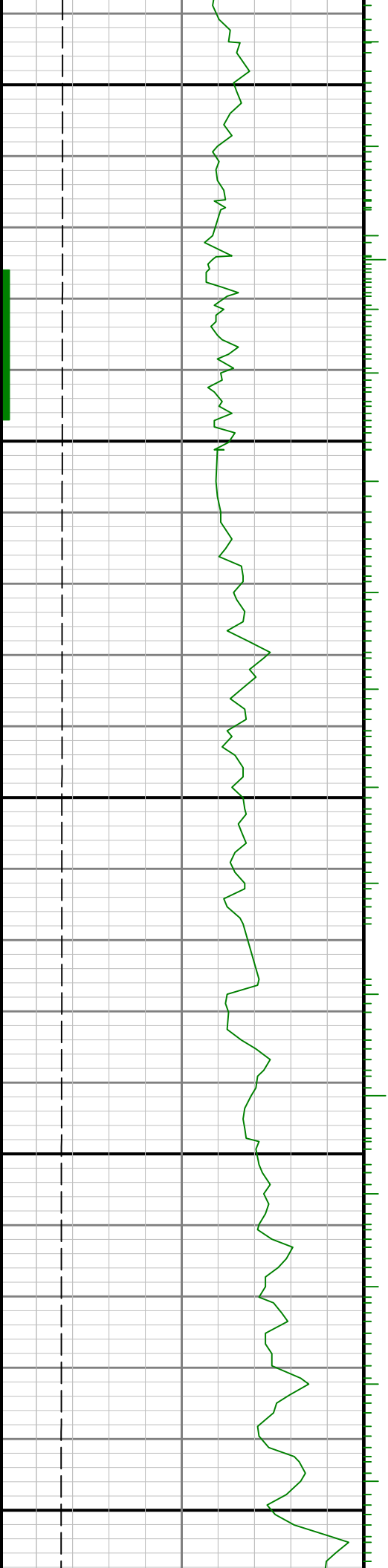




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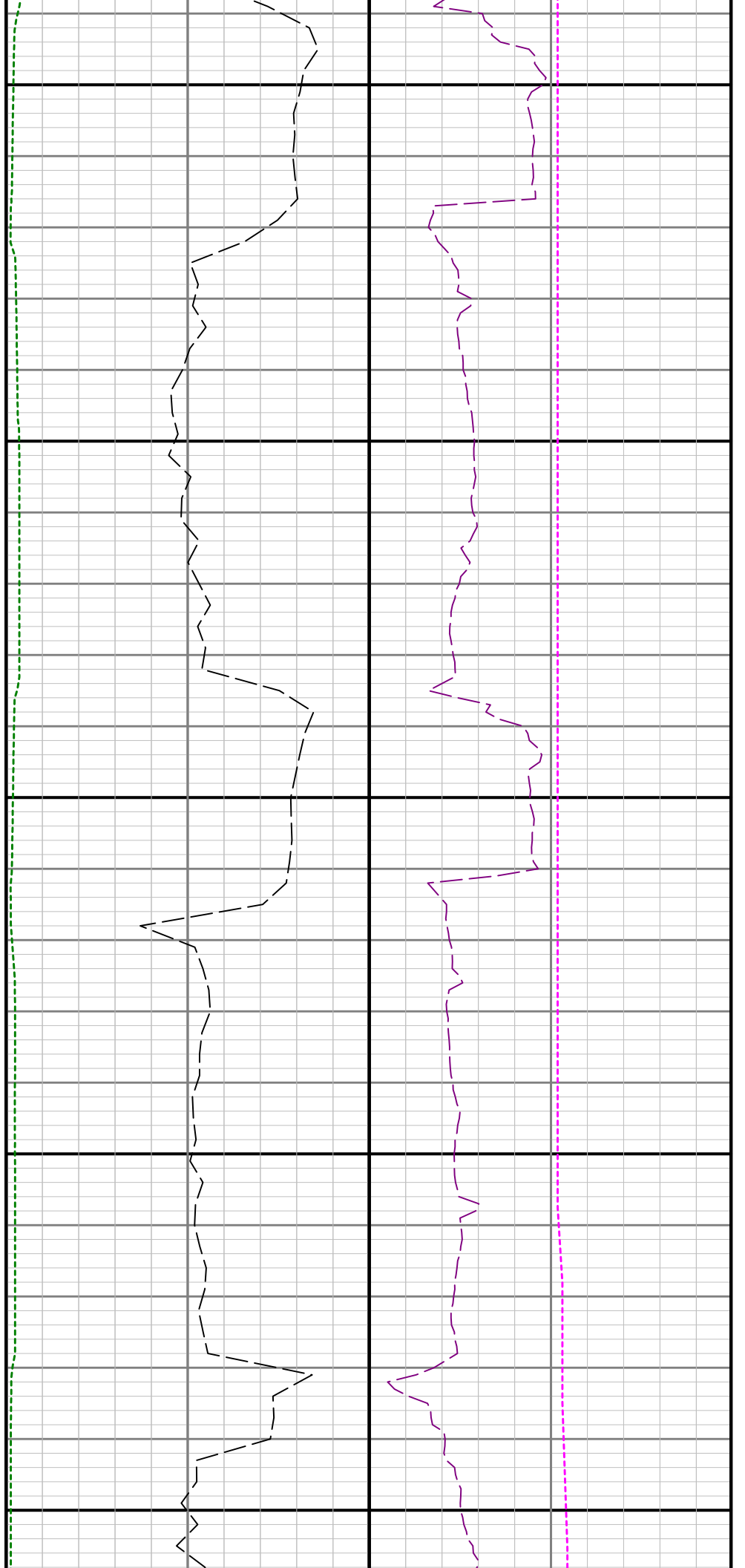
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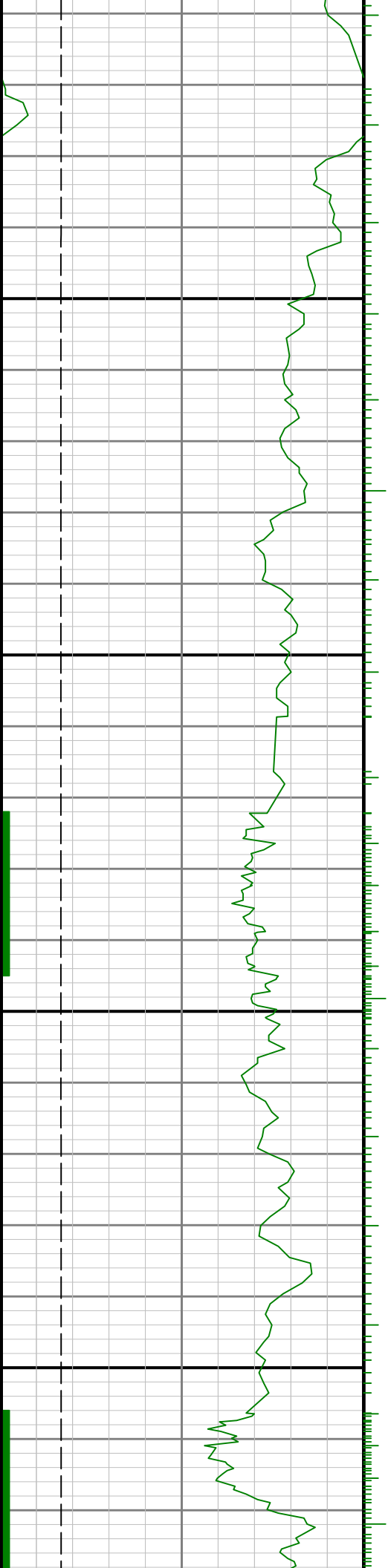




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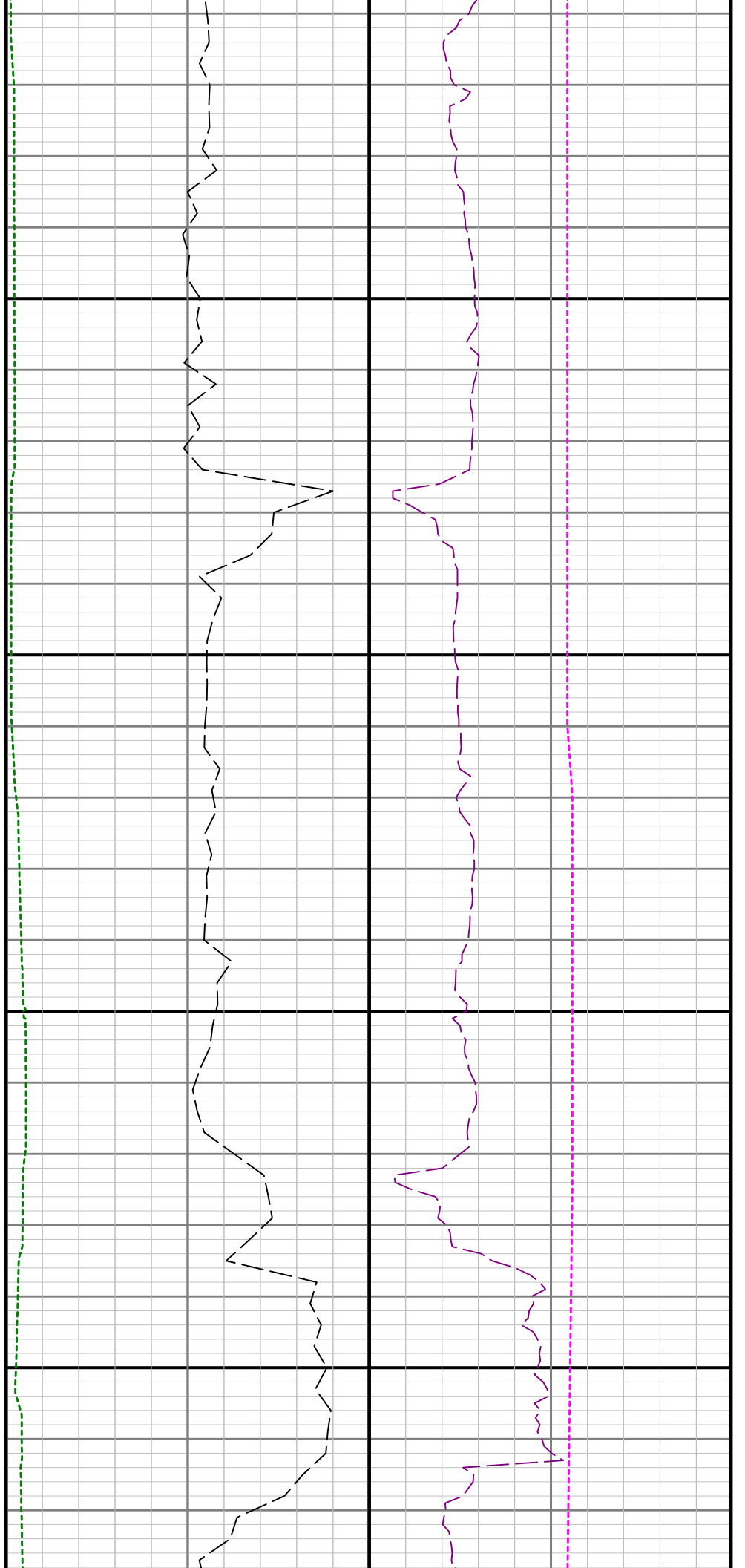
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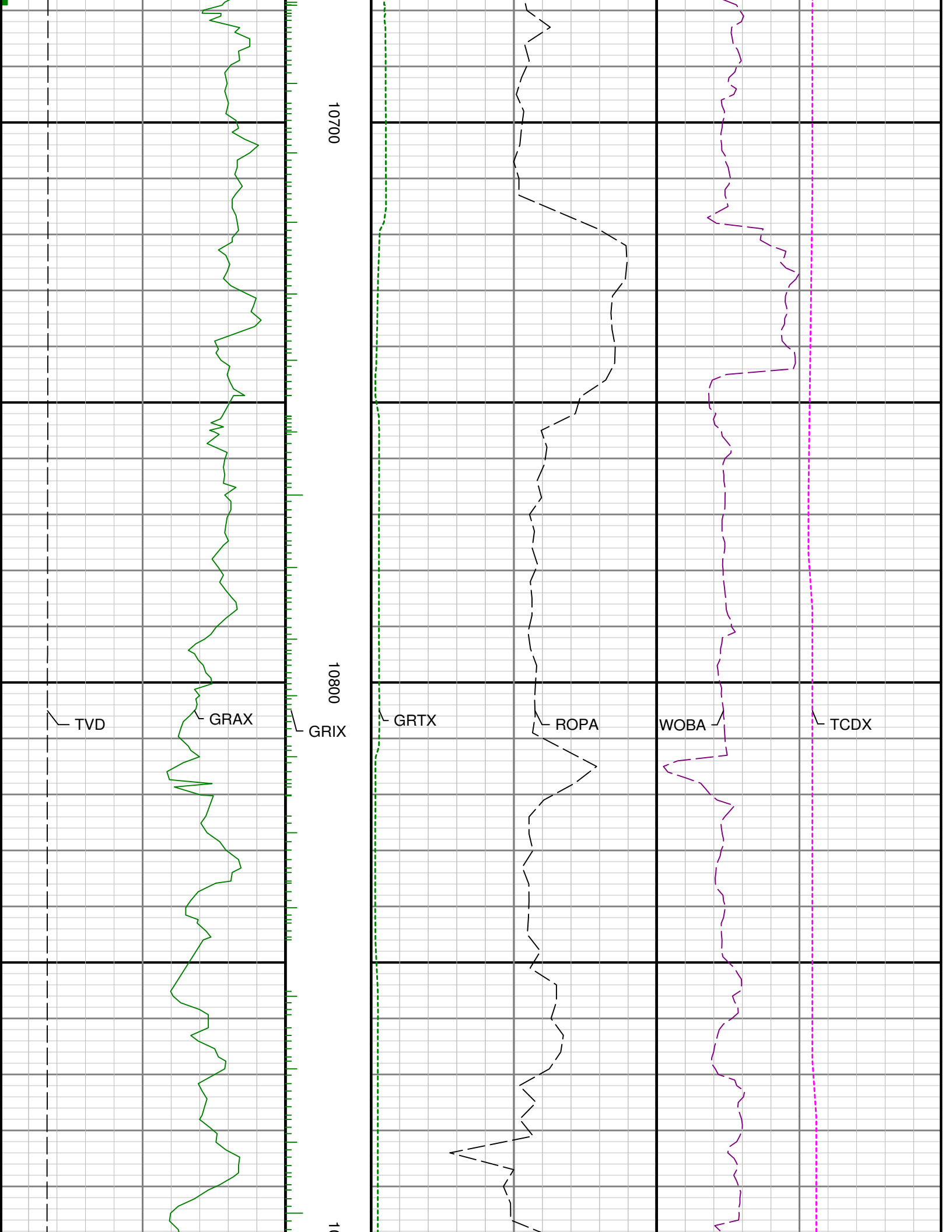


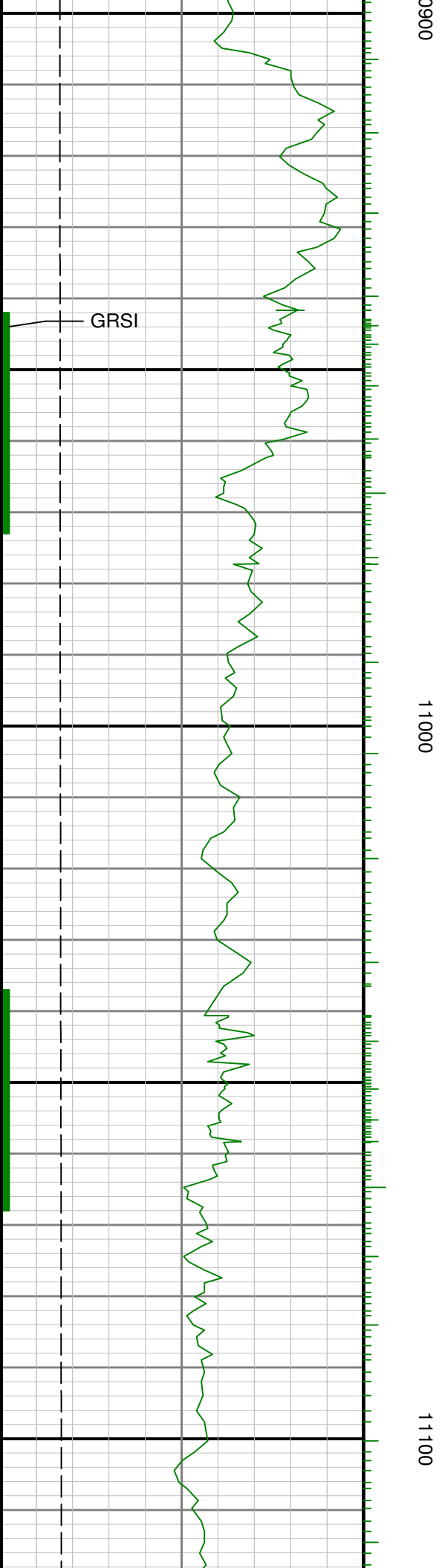
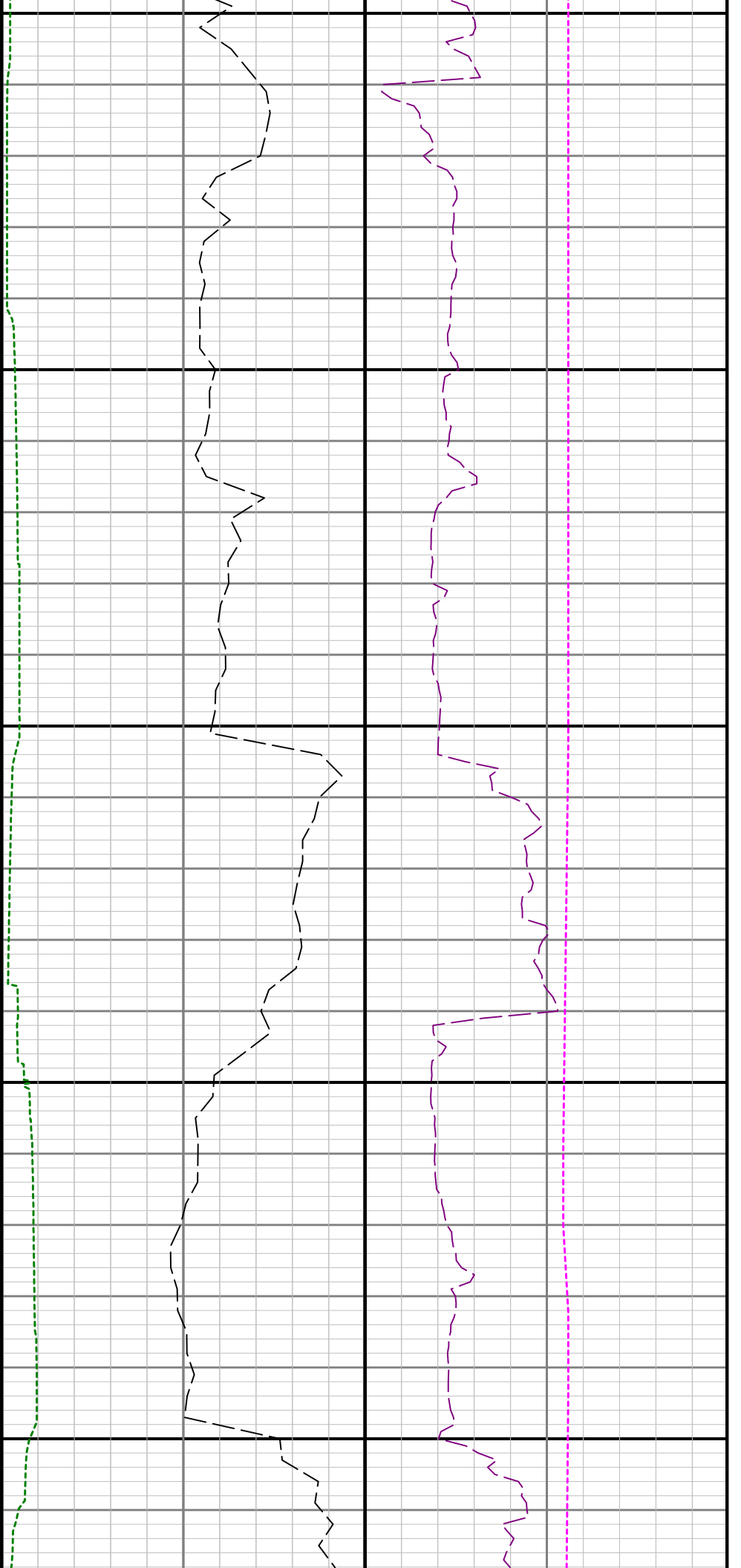


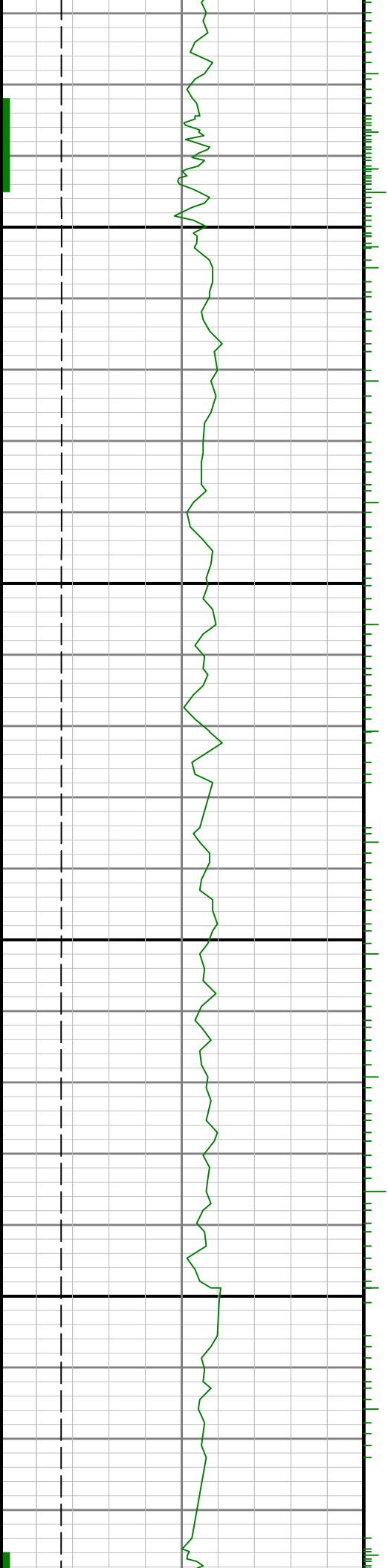
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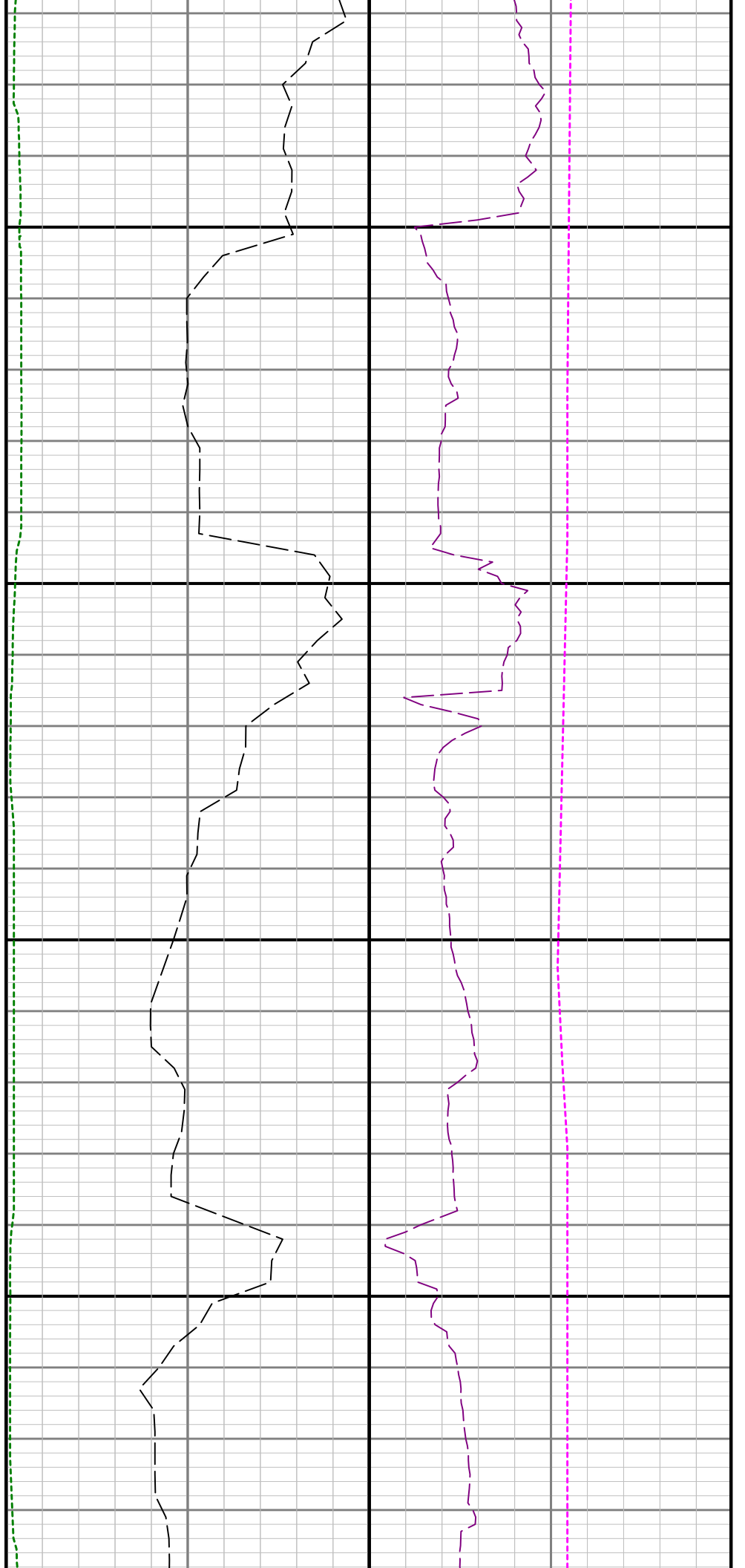


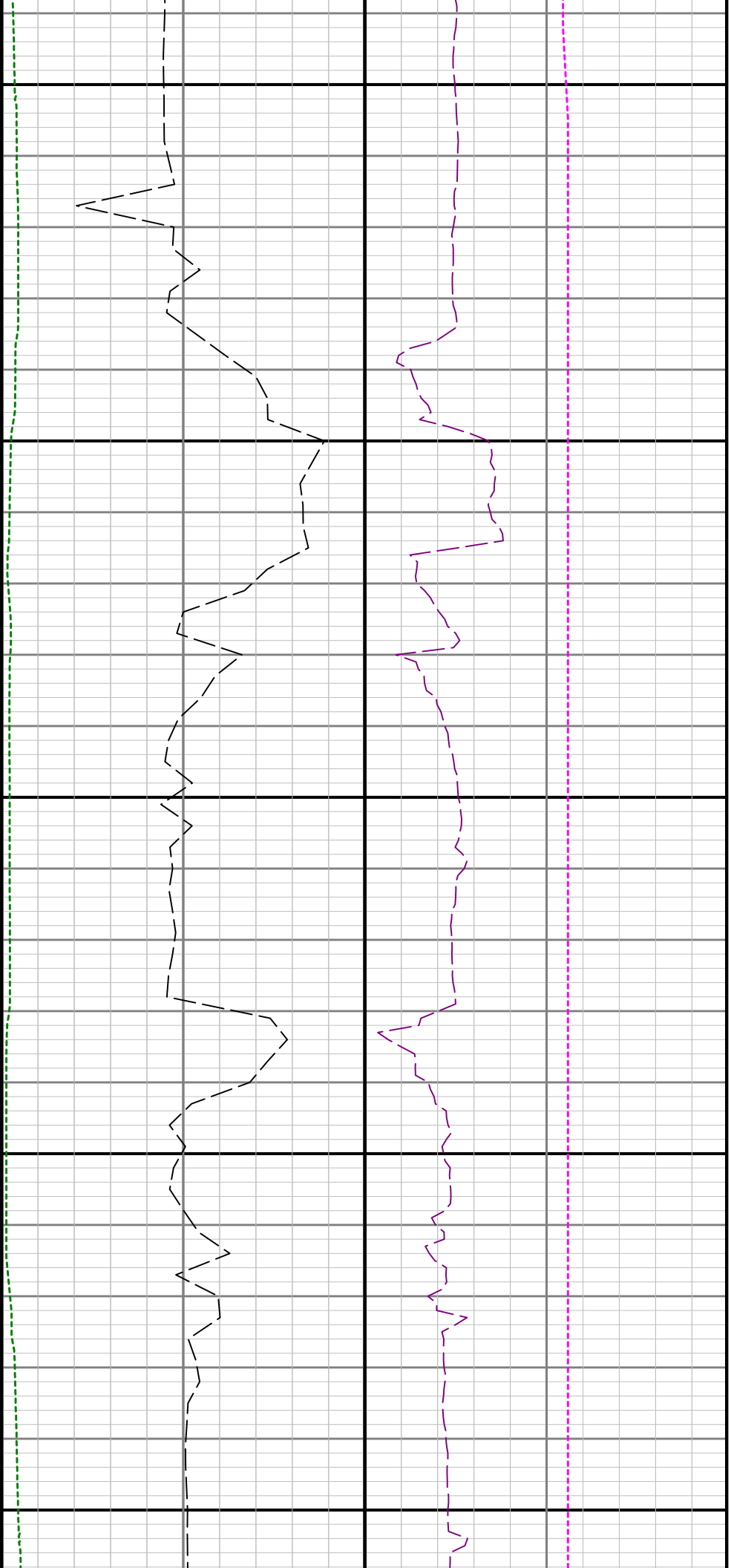




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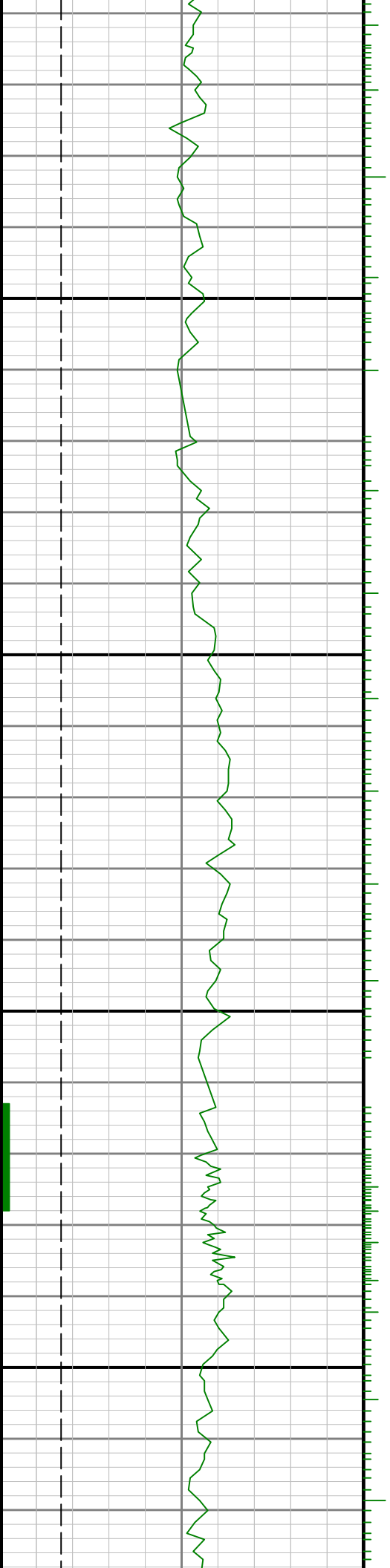
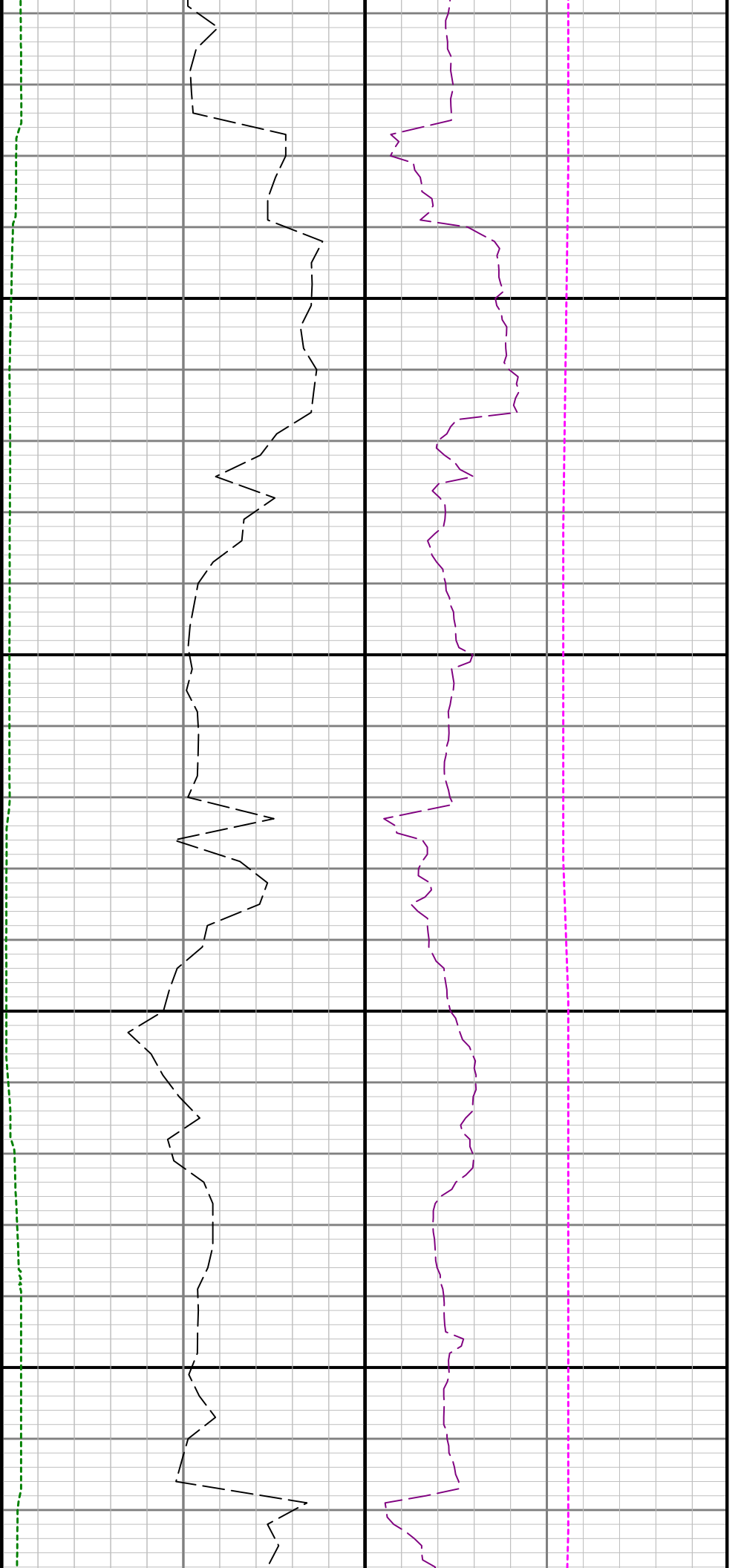
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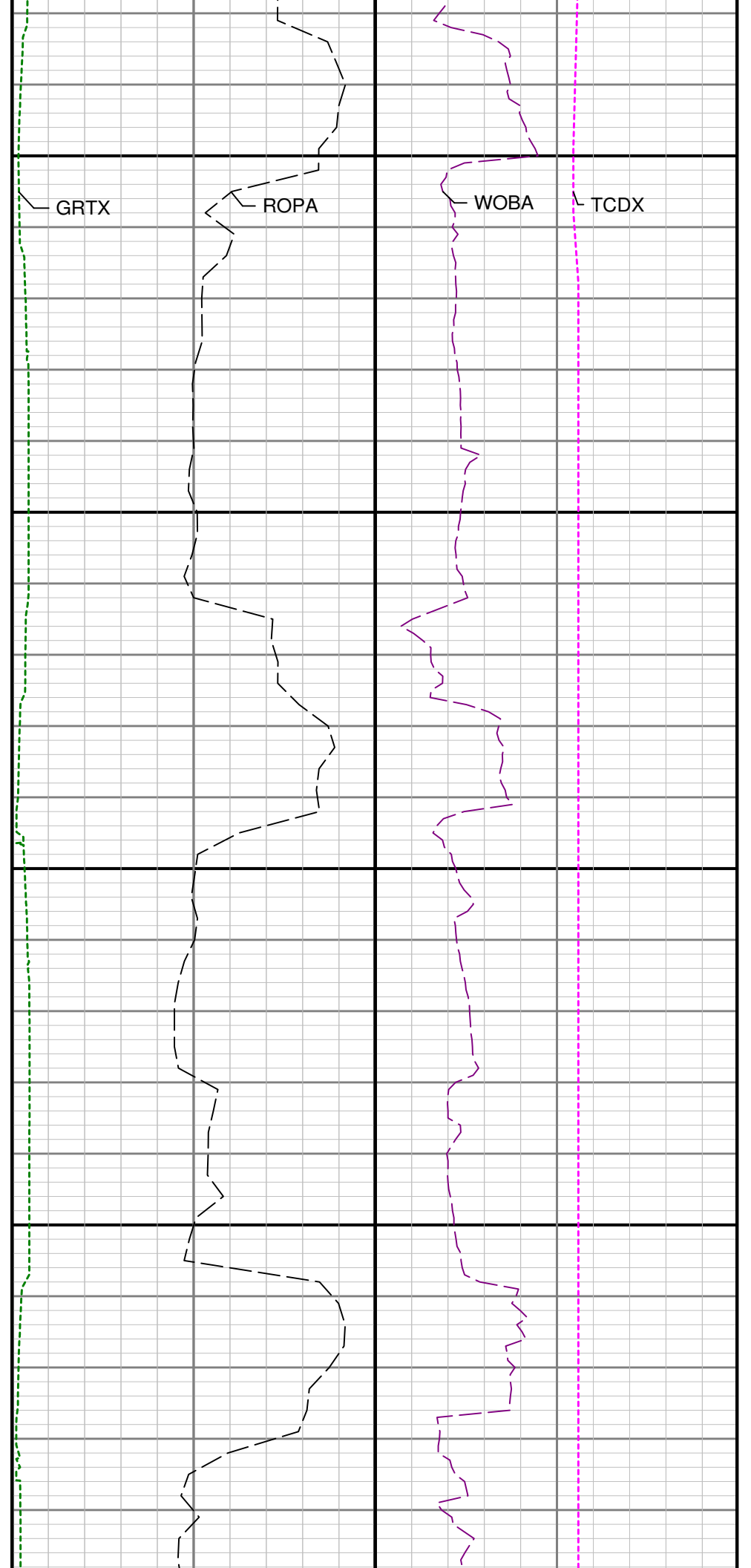
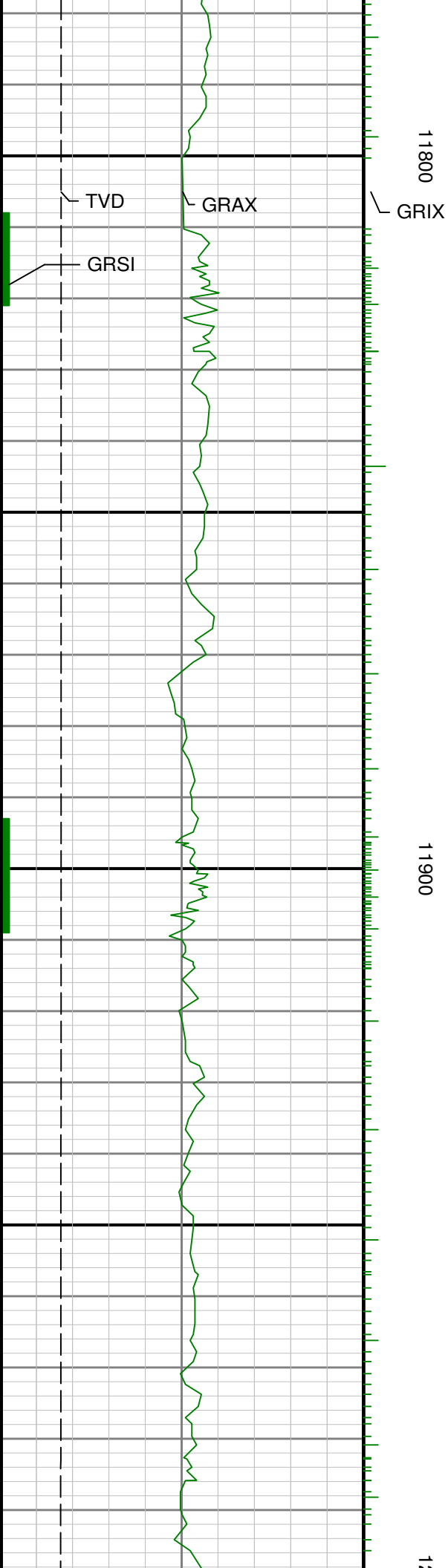


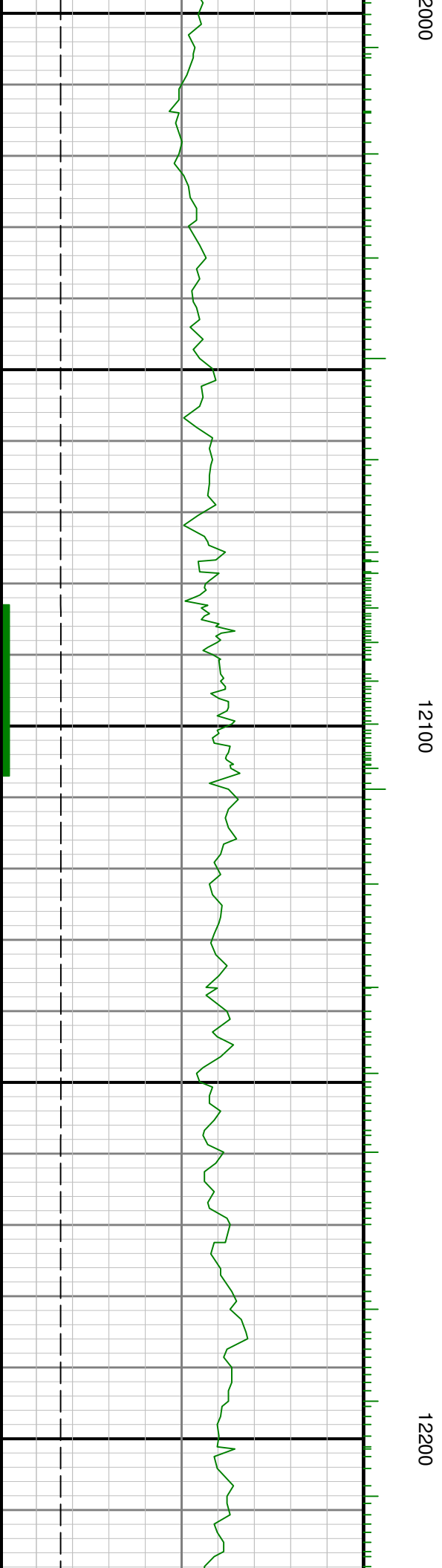
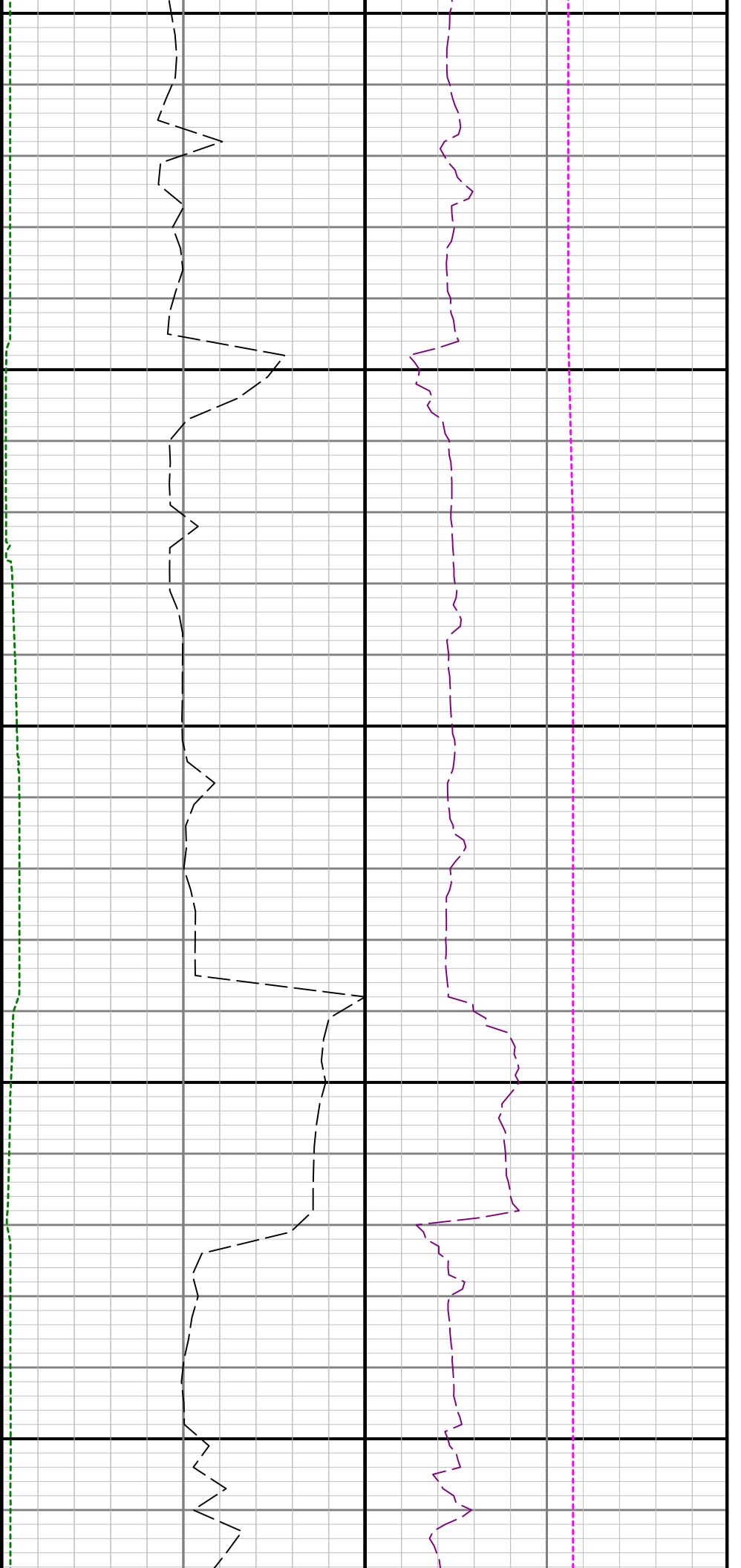


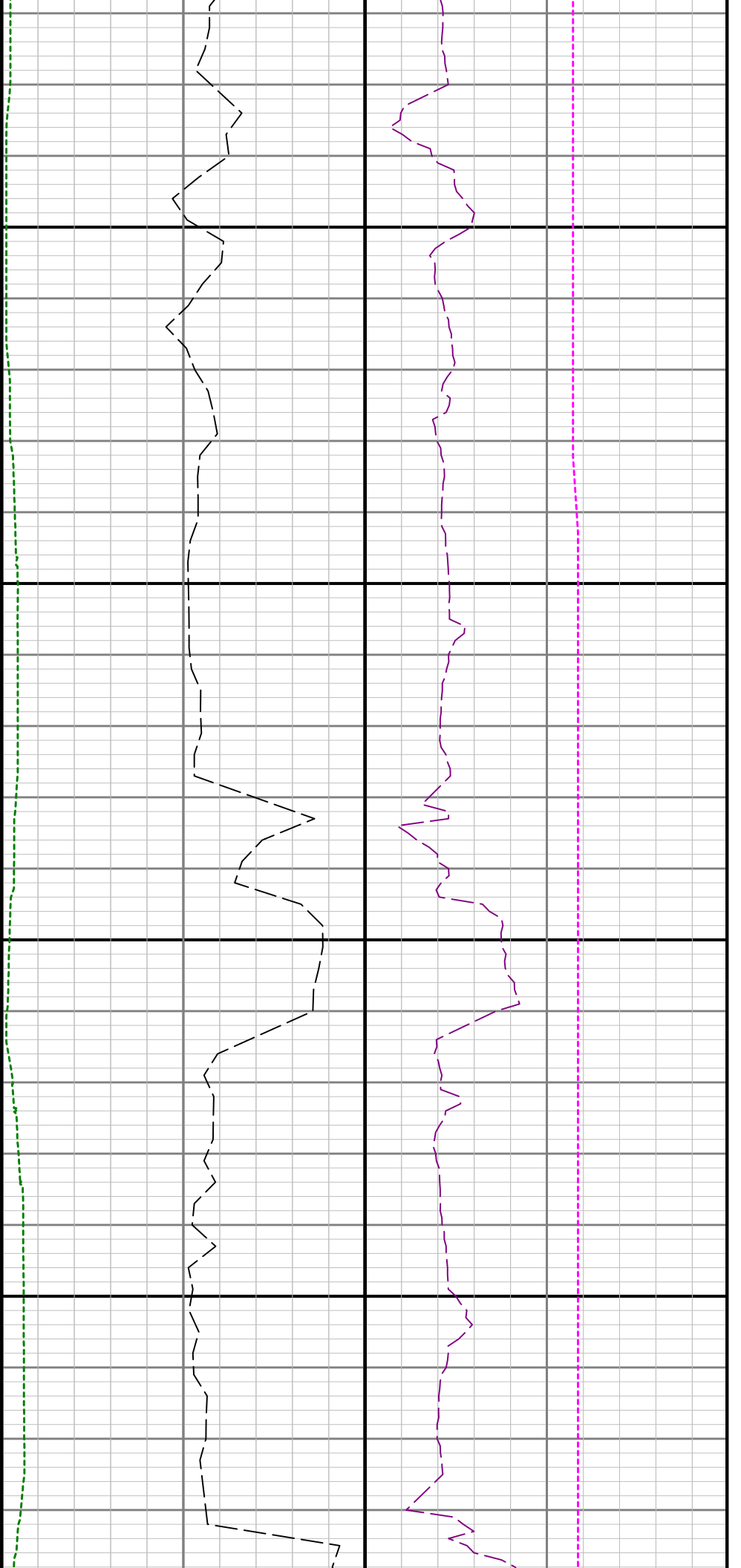
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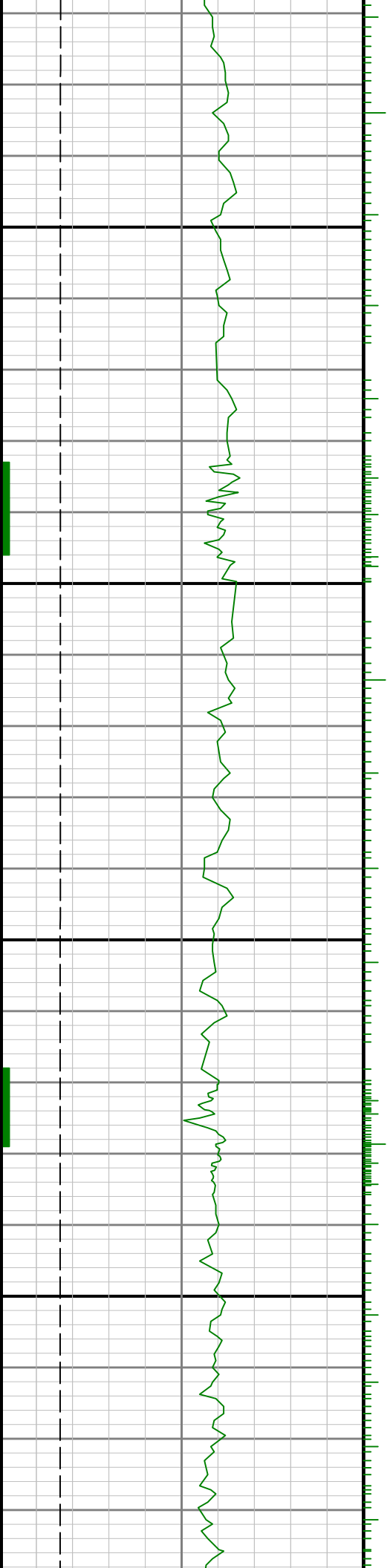






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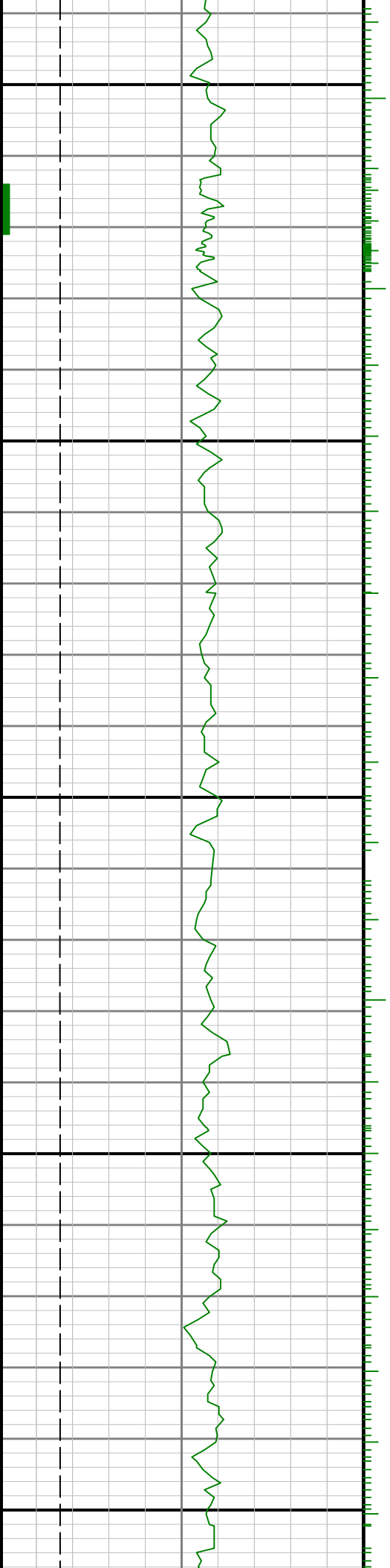
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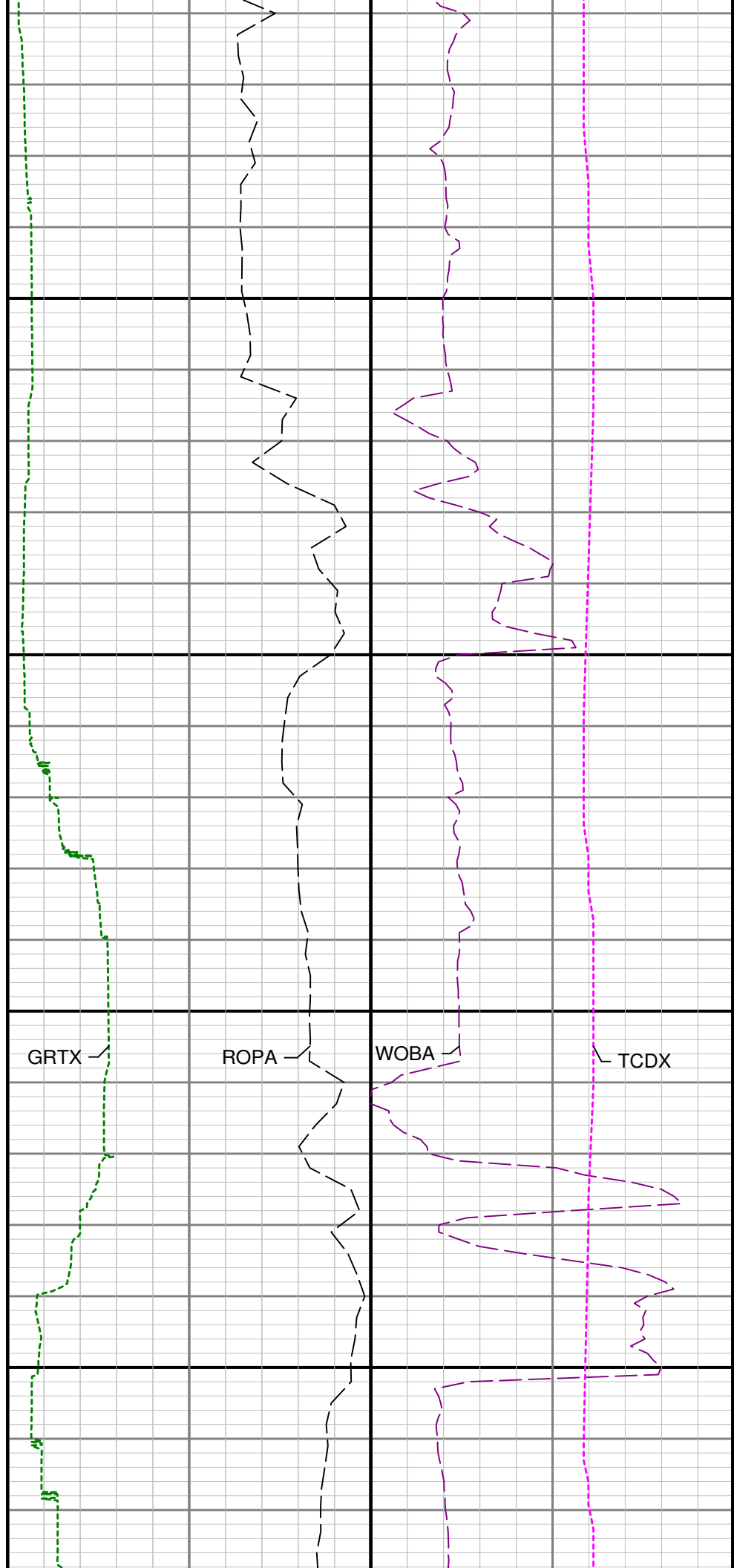
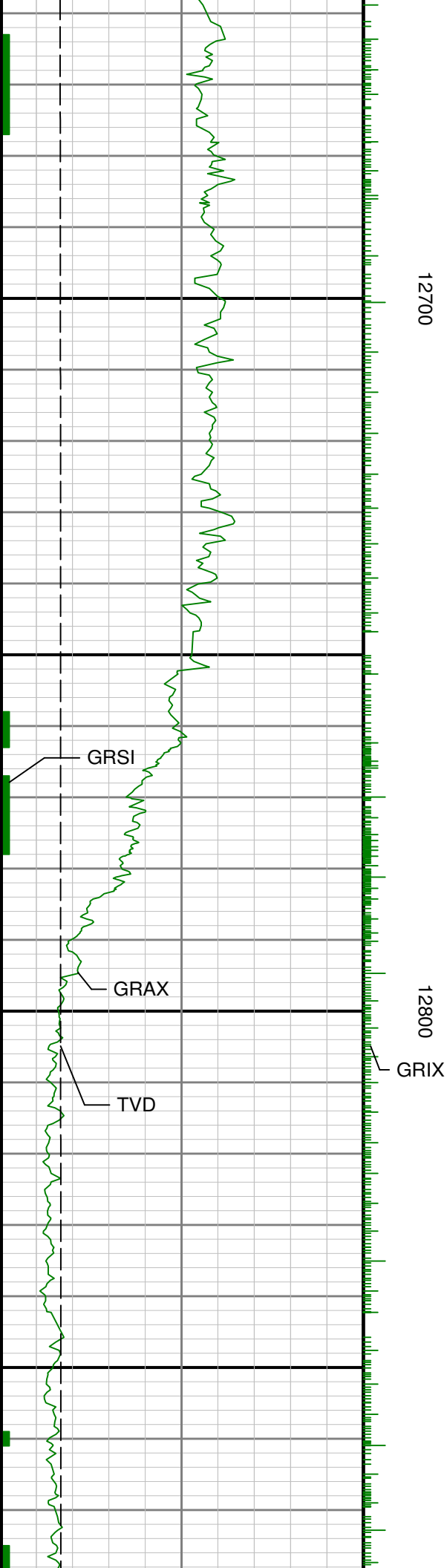


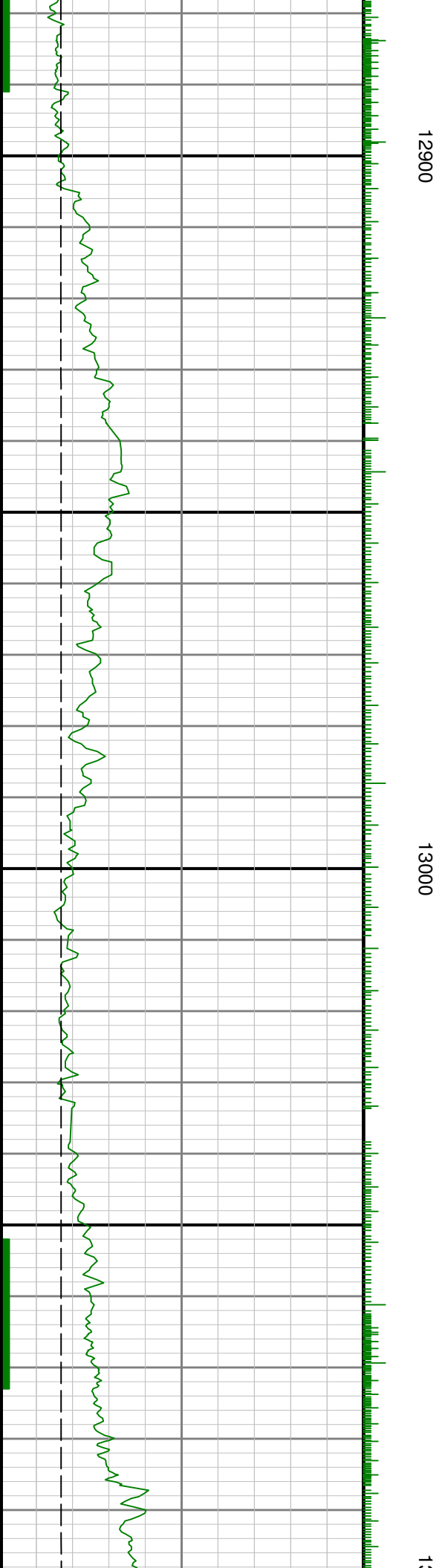
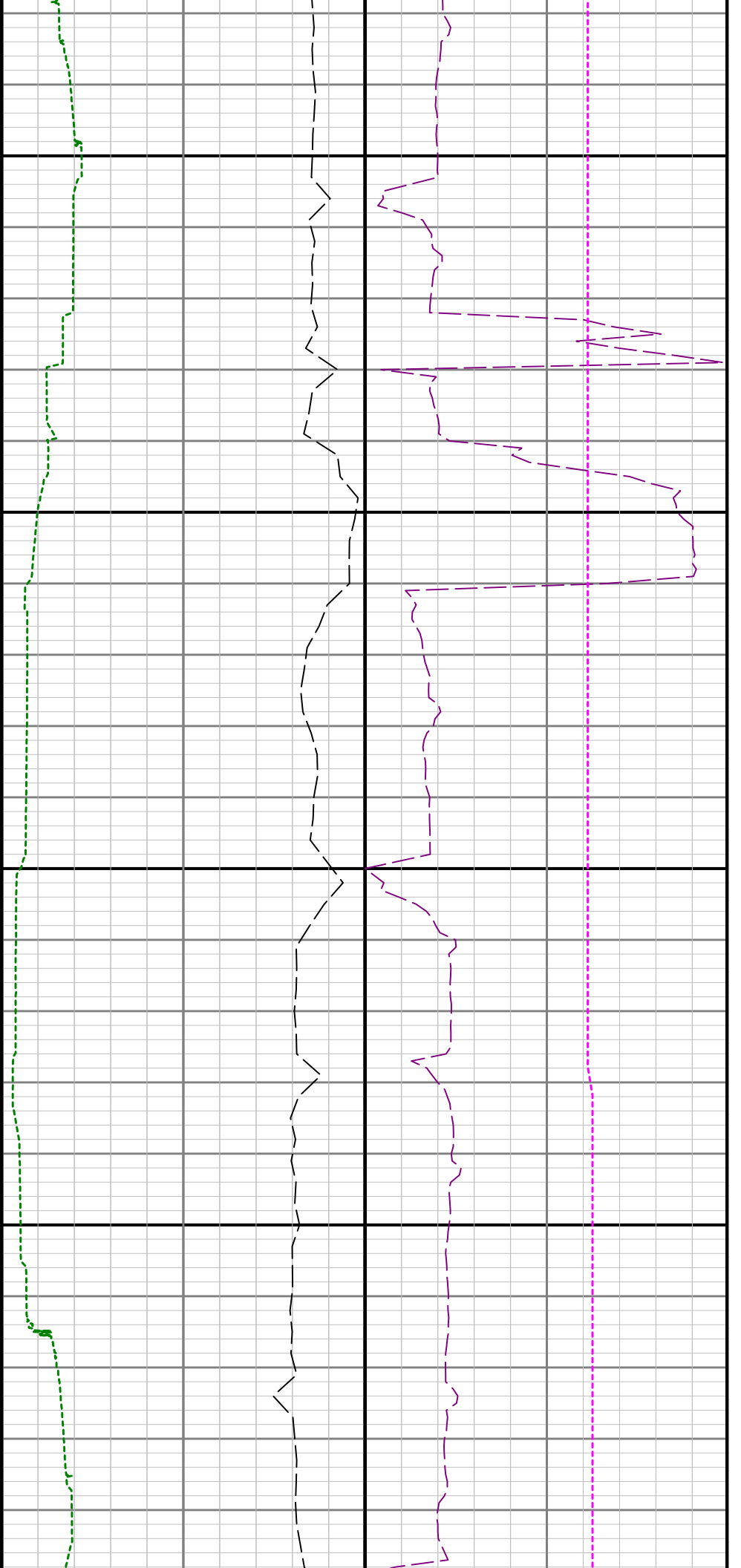


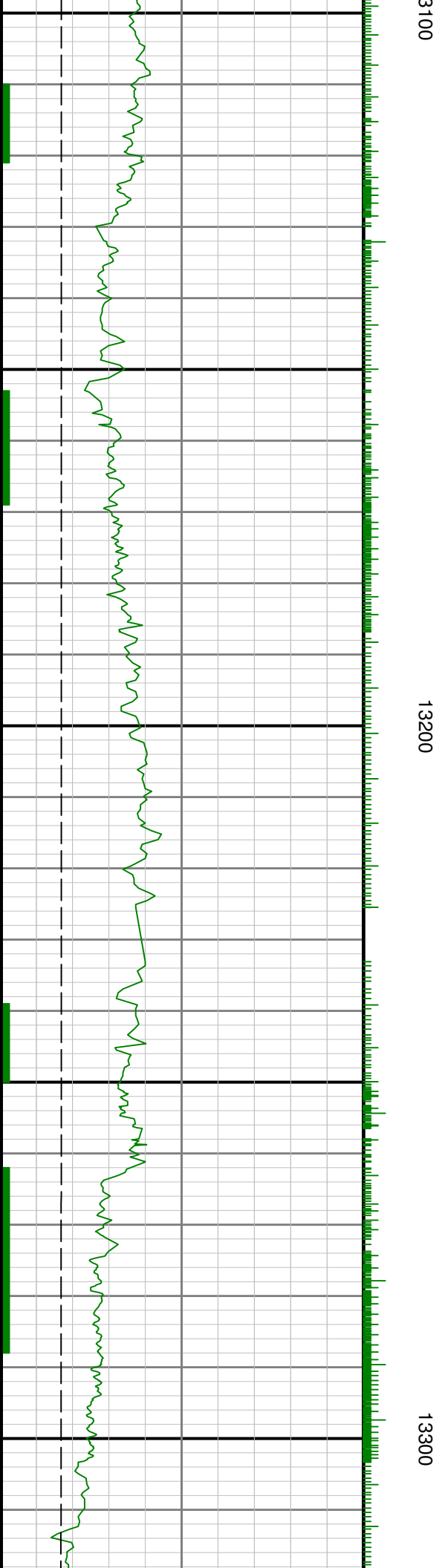
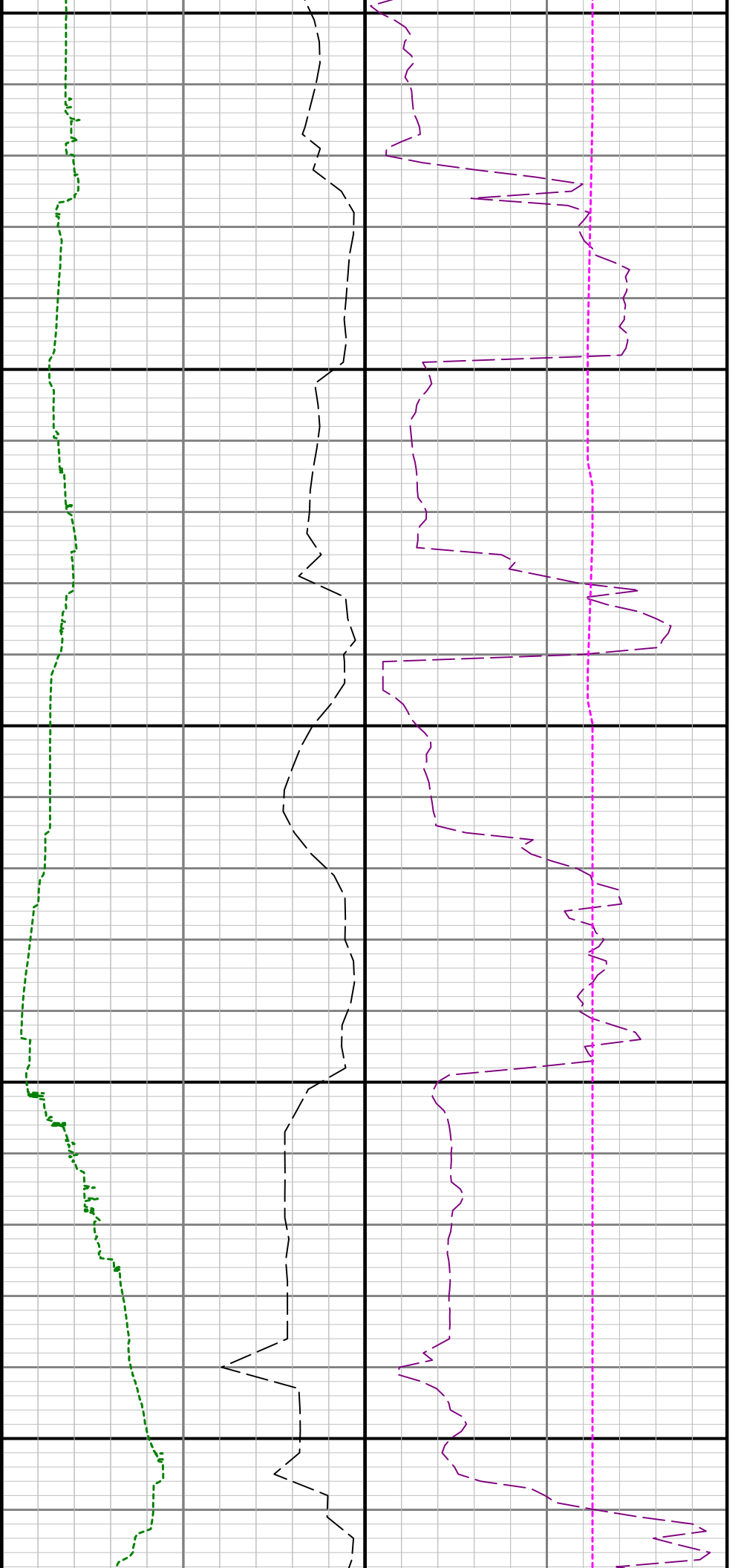
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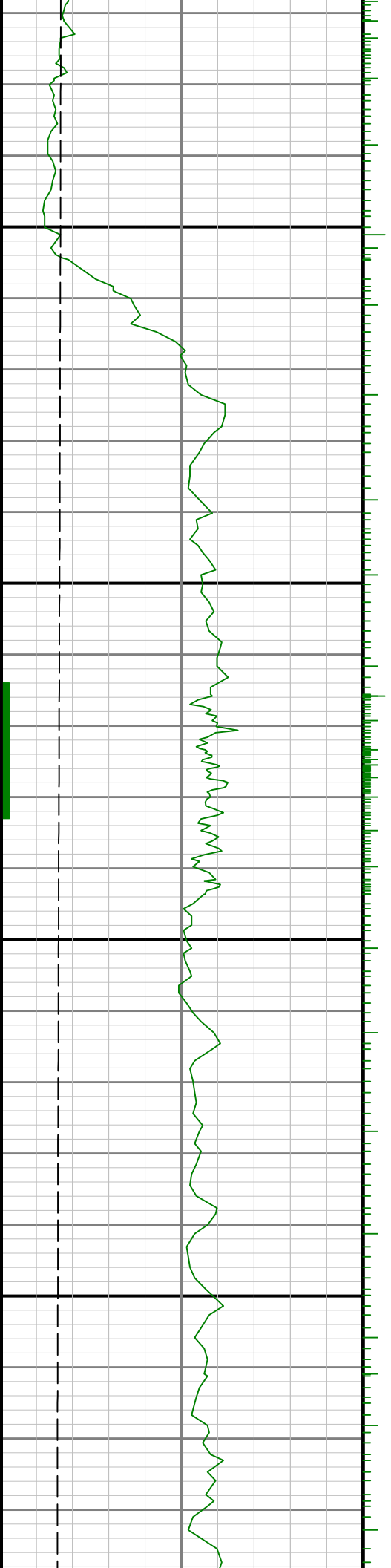


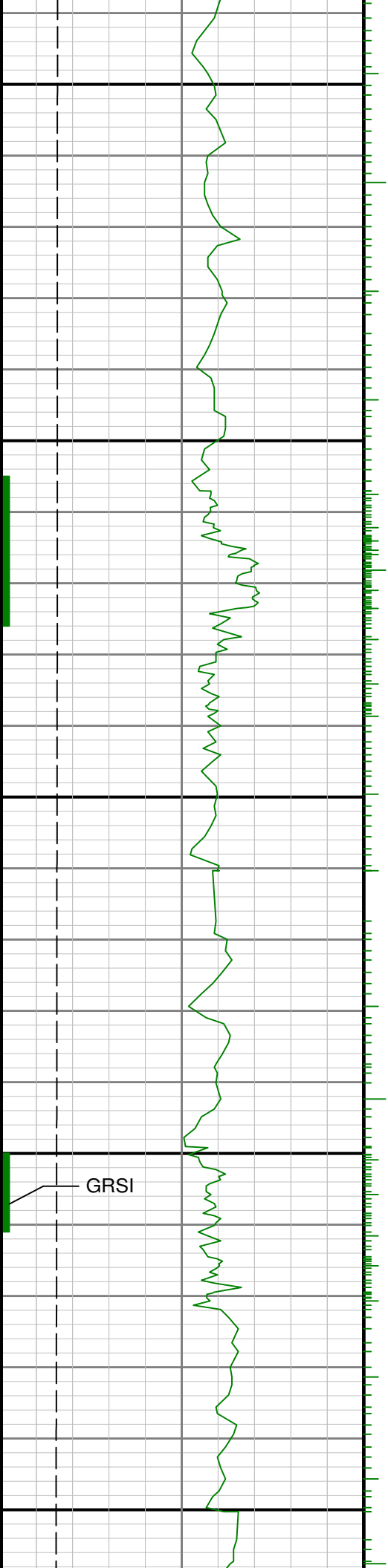




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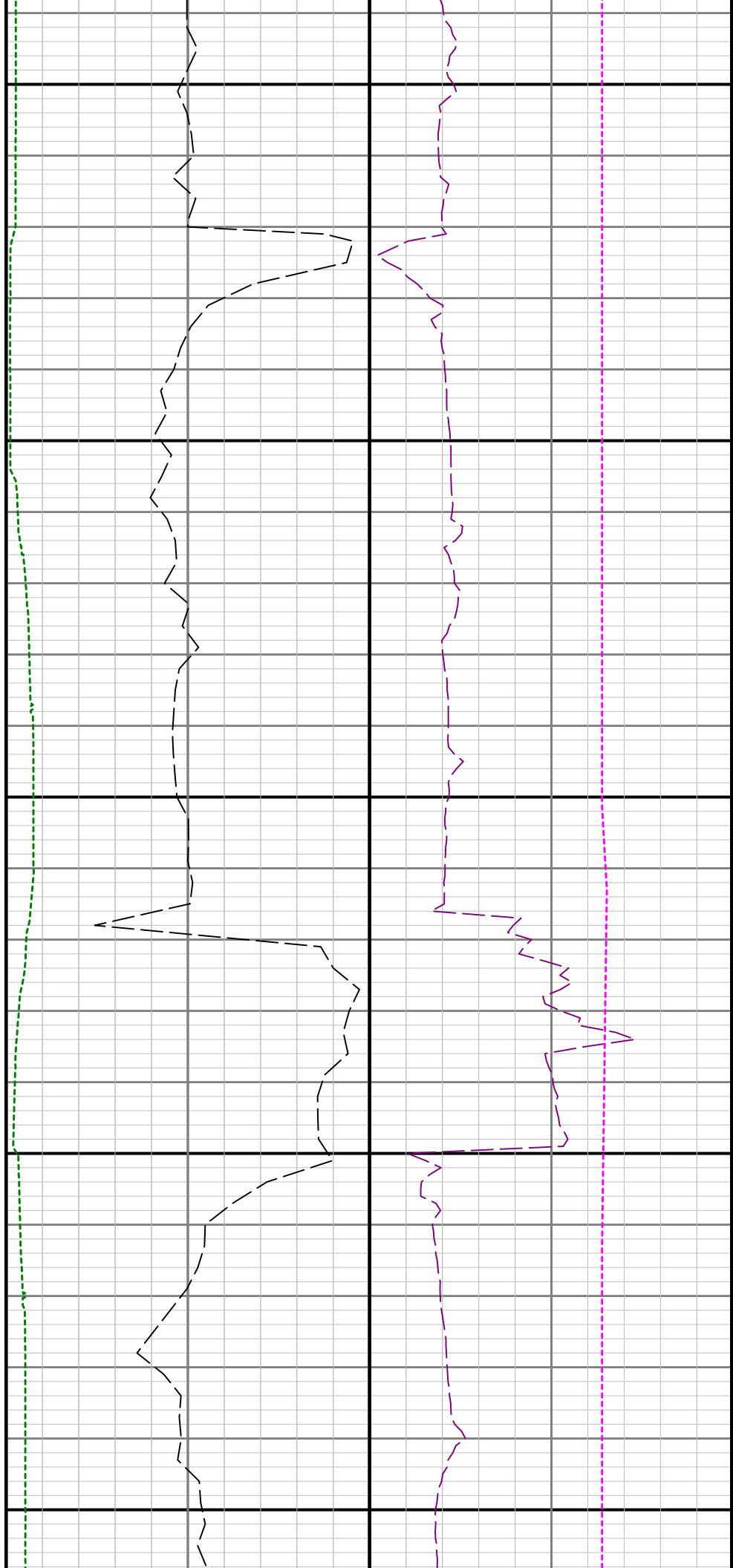
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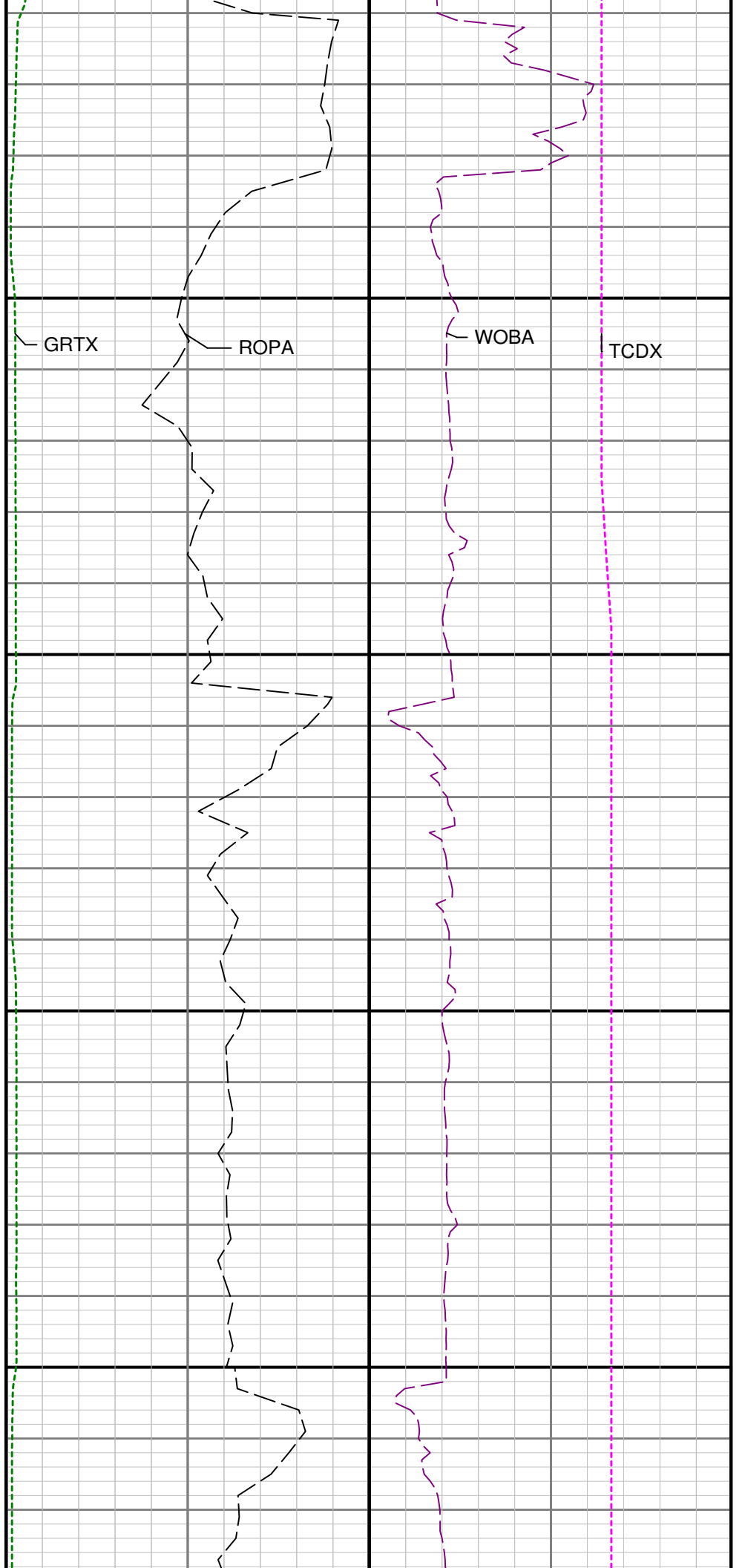
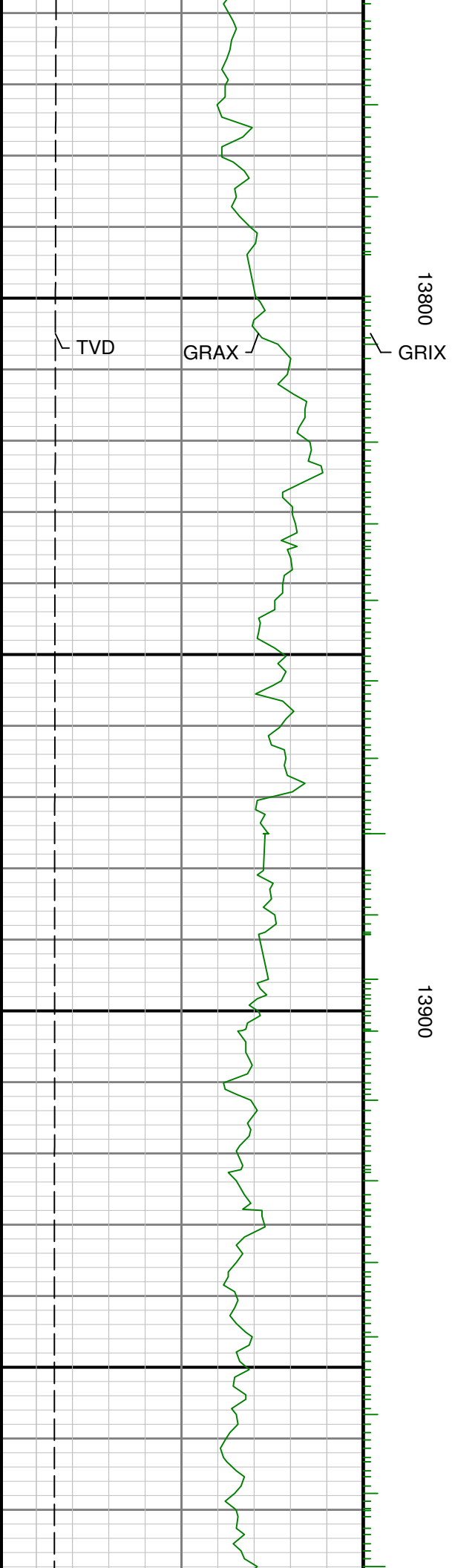


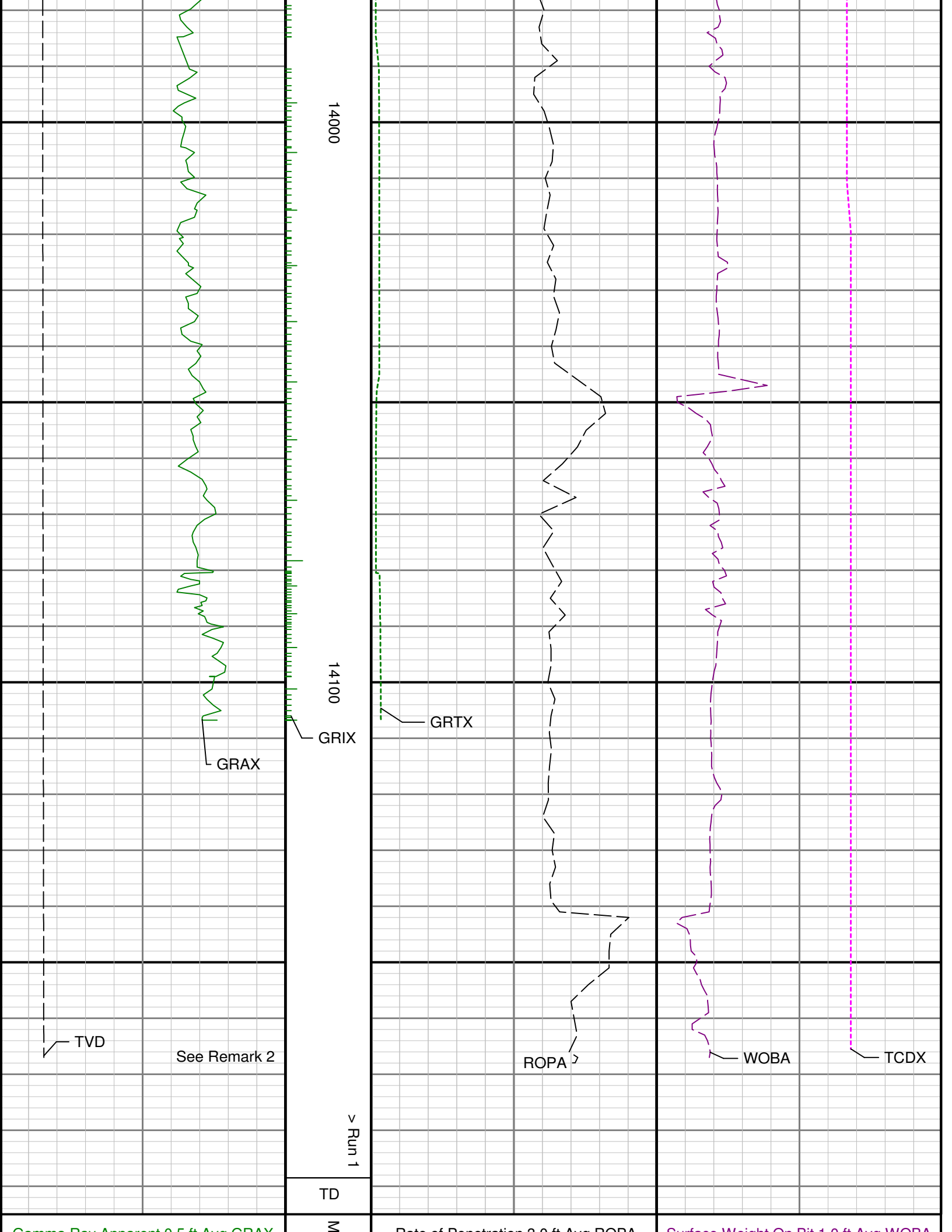
13600

13700



GRSI





Gamma Ray Apparent 0.5 ft Avg GRAX	D feet 1:240	Rate of Penetration 3.0 ft Avg ROPA	Surface Weight On Bit 1.0 ft Avg WOBA
0 150		1000 0	0 125
API		ft/hr	klbf
True Vertical Depth TVD		Gamma Time Since Drilled GRTX	Downhole Temperature TCDX
7500 6200		0 600	100 300
ft		min	degF