

<div><div><div></div><div>BAKER HUGHES</div></div></div>				Natural Formation Evaluation Gamma Ray				Realtime Logs			
Scale:				Company: Anadarko							
1:240 MEASURED DEPTH				Well: Barefoot 31N-25HZ							
				Field: Weld County (Kerr McGee)							
				Country: Continental US		State: Colorado					
Status:		Final Print		Surface Location:				Other Services:			
API Number: 051233922900		Section25		TWN: 3N		Range68E		Directional			
Permanent Datum (P.D.):		Ground Level		Elevation:		4904.00 ft.		Elevations:			
Log Measured From:		Kelly Bushing		17.00 ft.		Above P.D.		KB:		17.00 ft.	
Depth Reference:		Driller's Depth						DF:		N/A	
								GL:		4904.00 ft.	
Interval Logged				Dates				Magnetic Field Reference			
Top:		6667.0 ft.		Date From:		24/Jun/14		Dip Angle:		66.74 °	
Bottom:		12757.0 ft.		Date To:		29/Jun/14		Total		Mag to Reference	
		Spud Date:		22/Jun/14		Field Strength:		52642.7 nT		North Correction:	
										8.59 °	
Borehole Record				Casing Record							
Hole Size		From		To		Size		Weight		From	
13,500 in.		Surface		1575.0 ft.		9,000 in.		36.00 lb/ft		Surface	
8,750 in.		1575.0 ft.		7697.0 ft.		7,000 in.		36.00 lb/ft		Surface	
6,125 in.		7697.0 ft.		12757.0 ft.							
Mud Record				Deviation Record							
Type		From		To		Hole Size		Interval		Inc / Az (Start)	
Water Base		Surface		12757.0 ft.		13,500 in.		Surface		0.0 ° / 0.0 °	
						8,750 in.		Vert / Curve		1.0 ° / 23.2 °	
						6,125 in.		Lateral		89.4 ° / 268.4 °	
										/	
										/	
										/	
										/	
Acquisition System				Software Version				Other			
Advantage		2.20U4		Rig: / Contractor:		Xtreme 8		/			
PATs		6, 4, 1, 34		Job No:		6433353					
				District: / Unit:		RMD		/ Anadarko			

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Log Run Summary															
LWD	BHA	Bit	Bit	Bit	Bit	Assembly	Logged Interval		Bit Depth Interval		Date / Time				Circ.
Run	Run	Run	Size	Type	Gauge	Type	Top	Bottom	From	To	Start		End	Time	
No.	No.	No.	(in.)		Length (in.)		(ft.)	(ft.)	(ft.)	(ft.)				(hrs.)	
1	1	2	8.750	PDC	4.000	Mud Motor	6605.0	7634.0	6667.0	7697.0	22/Jun/2014 22:32	24/Jun/2014 17:32	38:45		
2	2	3	6.125	PDC	3.000	Mud Motor	7634.0	12691.0	7697.0	12757.0	26/Jun/2014 18:36	29/Jun/2014 07:25	45:00		

Crew									
Name		Arrive	Depart	Name		Arrive	Depart	Name	
		Wellsite	Wellsite			Wellsite	Wellsite		
Kevin Sheridan		06/22/2014	06/29/2014	Shirley Arimah		06/22/2014	06/29/2014		

Date / Time		LWD Run No.	Measured Depth (ft.)	Mud Type	Density (sg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
6/26/2014	21:00	2	7890.0	Water-Based Mud	10.0	42	9.9	N/A	2/89	Active Pits	2300	N/A
6/27/2014	21:00	2	10732.0	Water-Based Mud	10.2	45	9.6	N/A	2/89	Active Pits	2200	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent	API 0.5 ft. avg.
GRIX	Gamma Ray Density	Points
ROP_AVG	Rate of Penetration	ft/hr 3.0 ft. avg.
TCDX	Downhole Temperature	deg F
TVD	True Vertical Depth	ft.
WOBA_AVG	Surface Weight On Bit	klbf 1.0 ft. avg.

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	10427972	Directional	62.18	6.750	3.250
1	SRIG	12600751	Gamma	58.81	6.750	3.250
2	SRIG	12600743	Gamma	62.83	5.000	2.250
2	DIR	12168813	Directional	66.21	4.750	2.250

Service and Tool Mnemonics

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

Comments

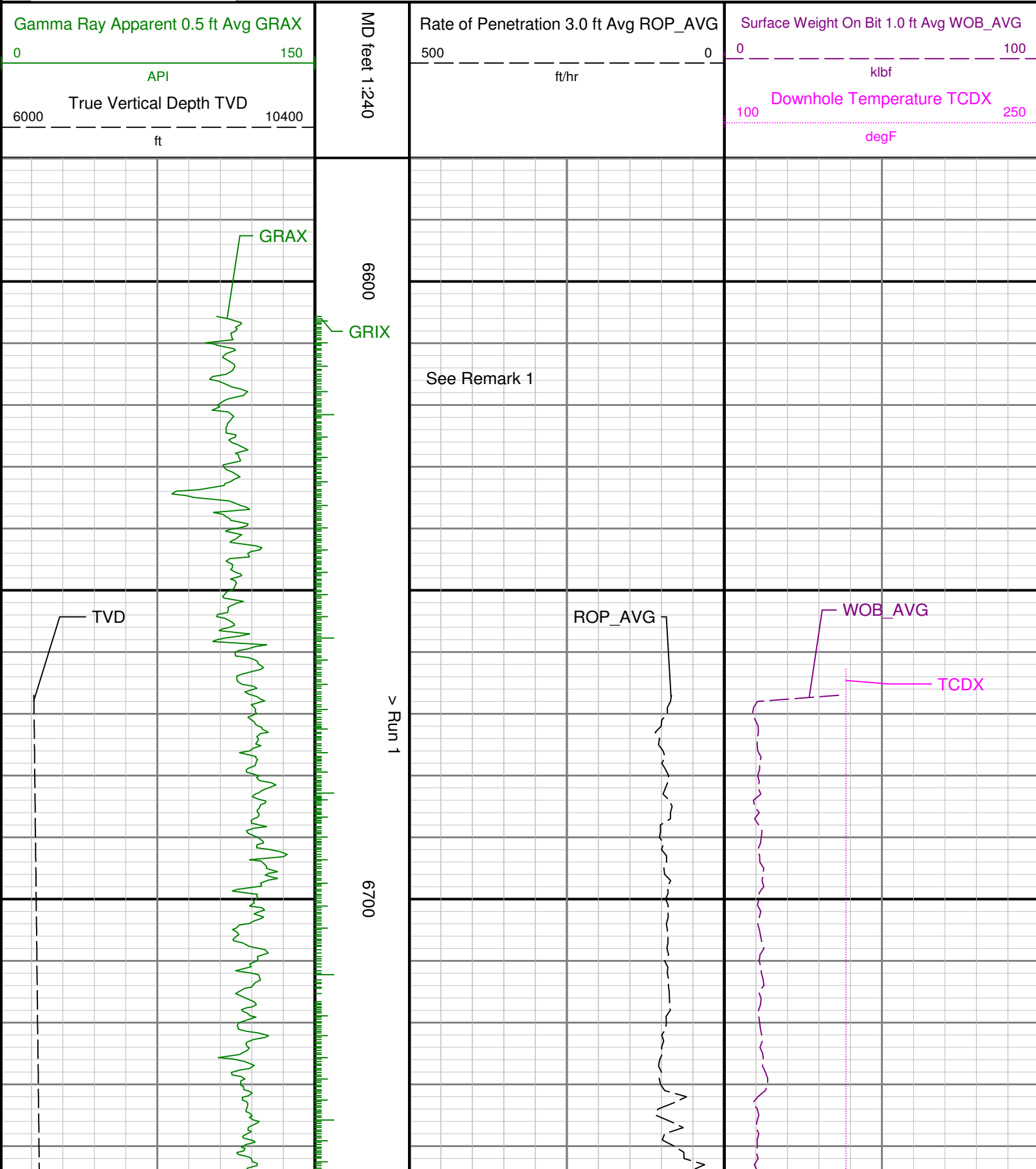
<p>1) Baker Hughes INTEQ run 1 utilized a 6.5 inch NaviGamma (Gamma Ray and Directional) tool behind a 8 3/4inch bit and steerable assembly from 6667 to 7697 ft. MD (6458.42 to 7077.23 ft. TVD).</p> <p>2) Baker Hughes INTEQ run 2 utilized a 4.75 inch NaviGamma (Gamma Ray and Directional) tool behind a 6 1/8 inch bit and steerable assembly from 7697 to 12757 ft. MD (7077.23 to 7096.33 ft. TVD).</p>
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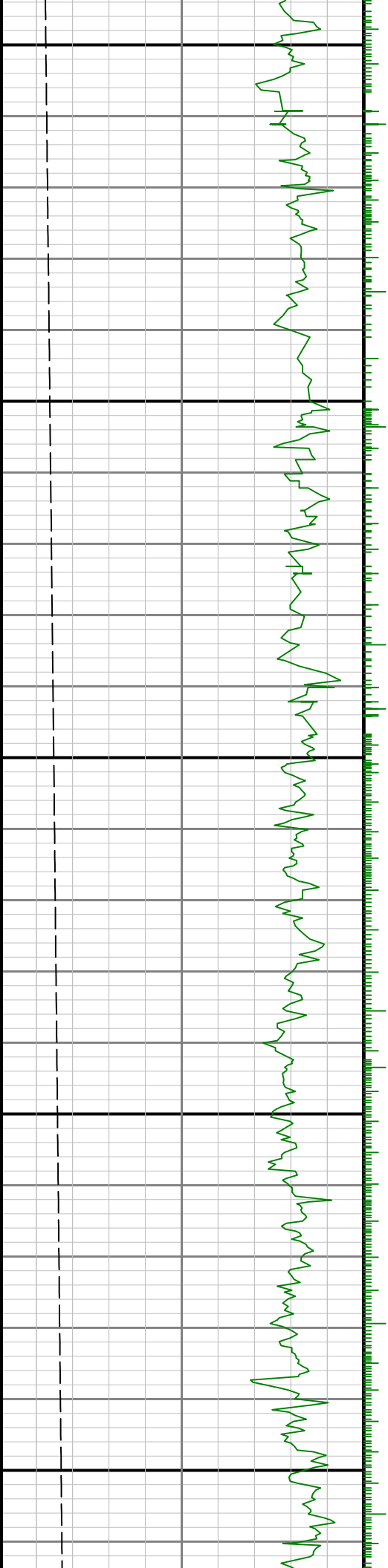
Remarks

Number	Measured Depth (ft.)	Hole Section (in.)	LWD Run No.	Remark
1	6667	8.750	1	The interval from 6605 to 6667 feet MD (6394.44to 6458.42 feet TVD) was logged due to gamma offset at the start of the curve.
2	7686	6.125	2	The interval from 7633 to 7686 feet MD (7073.72 to 7076.82 feet TVD) was logged up to 24 hours after drilling due to tripping out of the hole for casing and cement operations. Gamma data is attenuated due to logging behind casing.
3	12691	6.125	2	The interval from 12691 to 12757feet MD (7094.48 to 7096.33 feet TVD) was not logged due to sensor offsets to bit at TD.



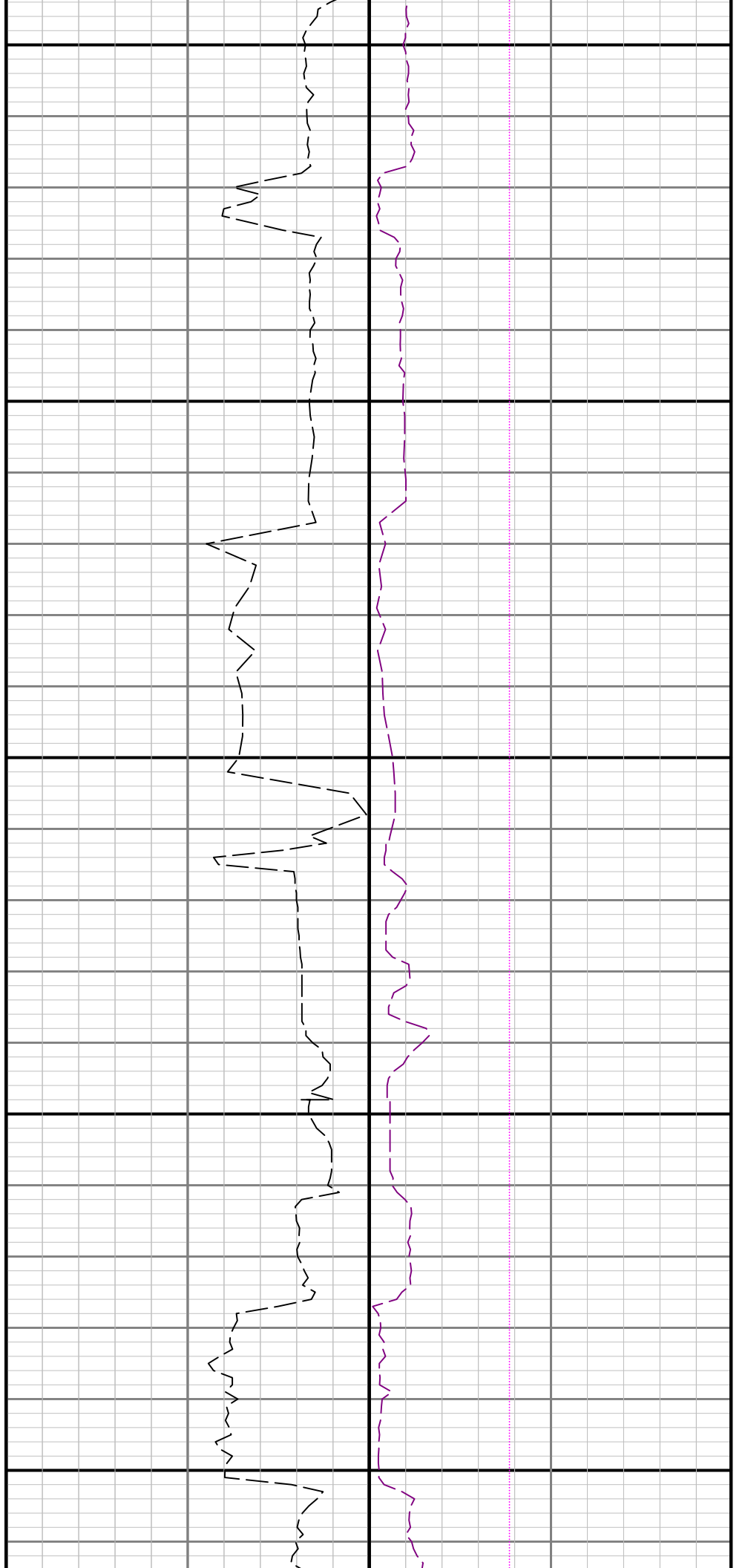
Company : Anadarko
Well : Barefoot 31N-25HZ
Interval : 6580.00 - 12790.00 feet
Created : 28/Jun/2014 5:35:07 PM

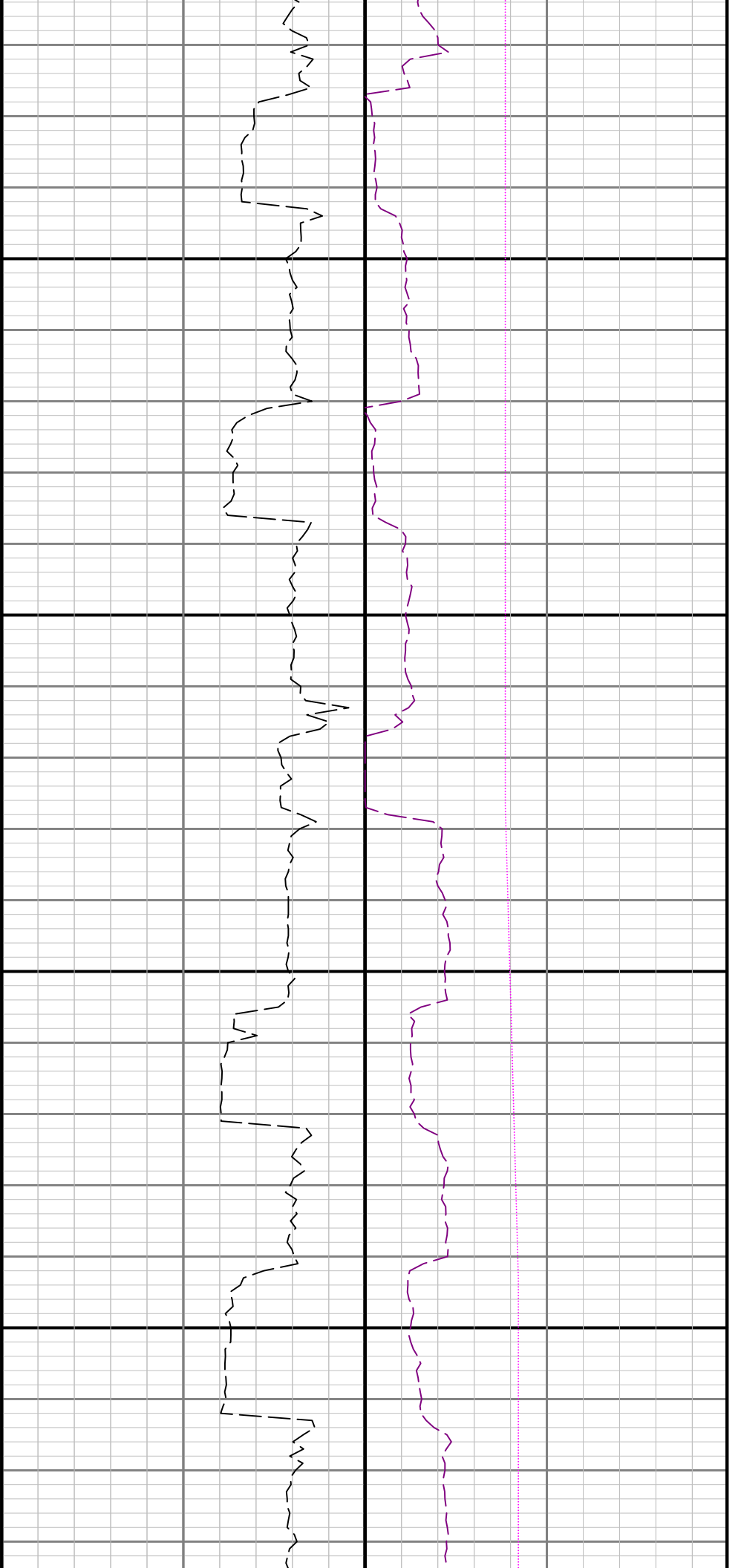




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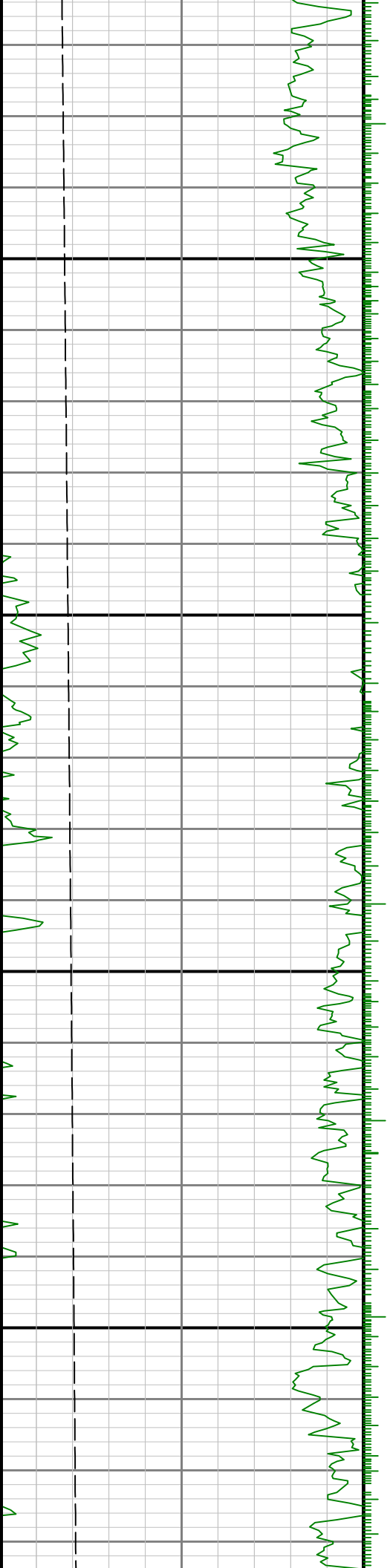
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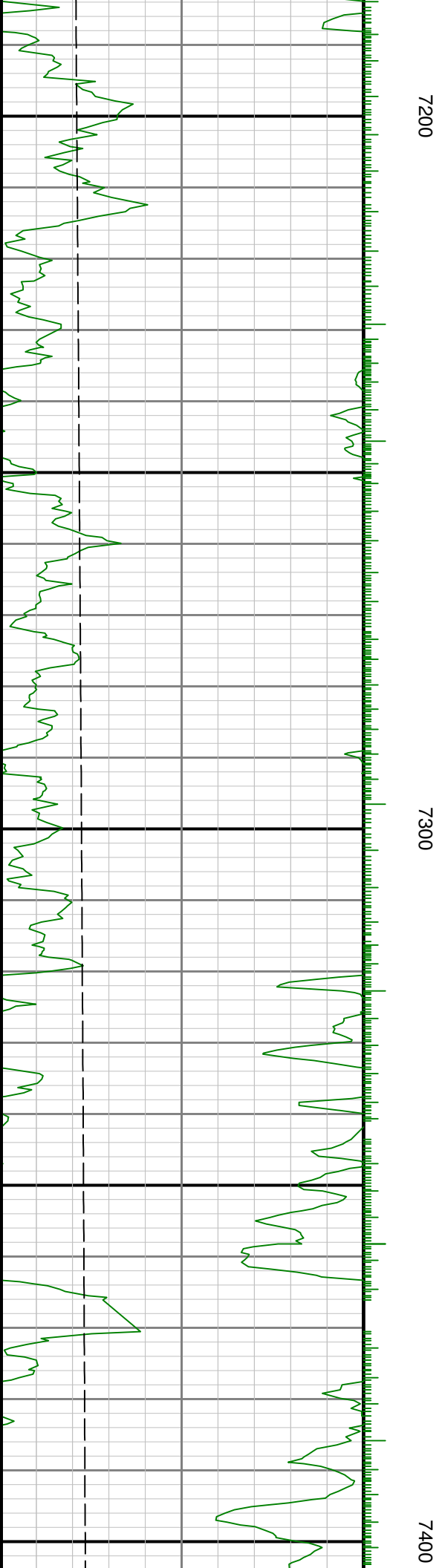
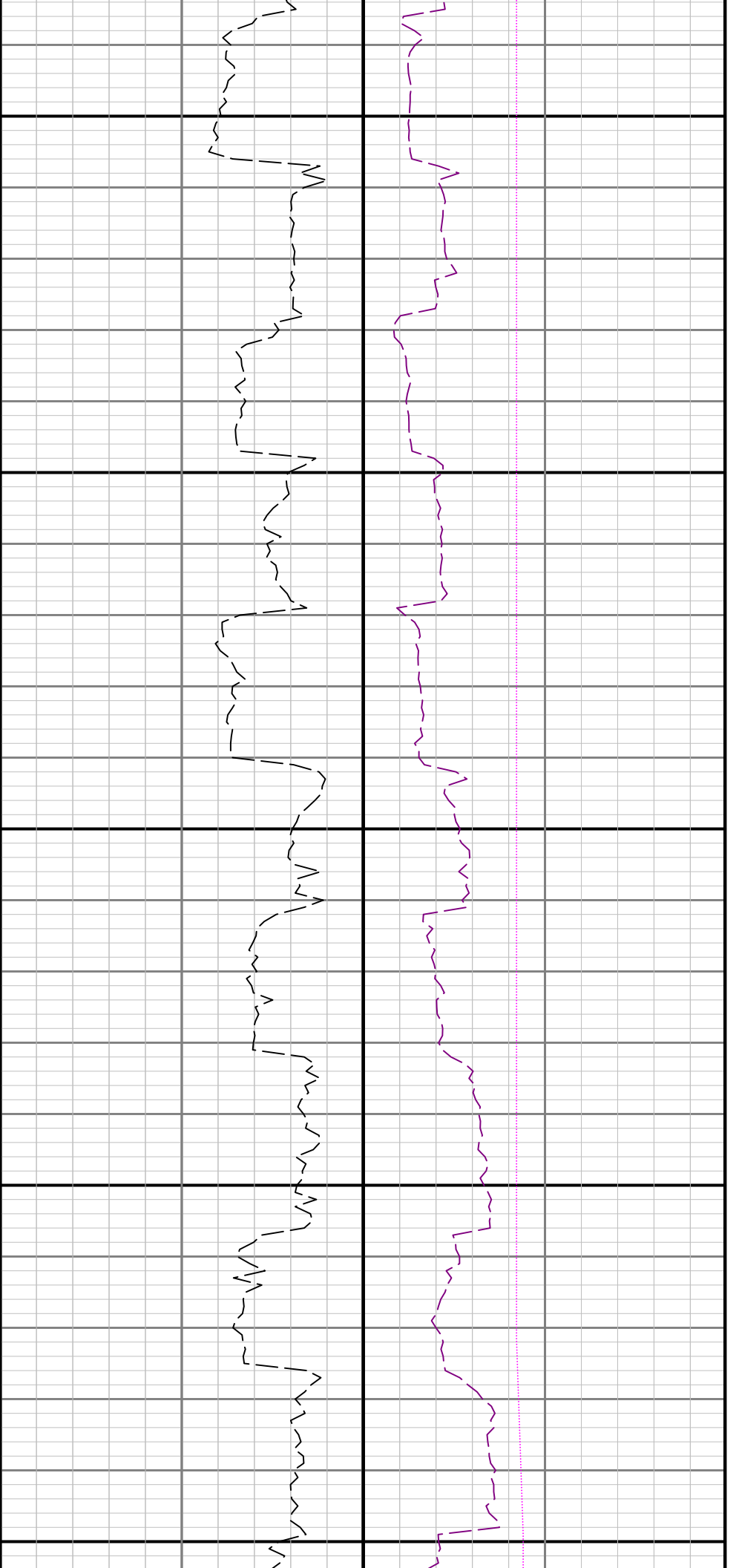


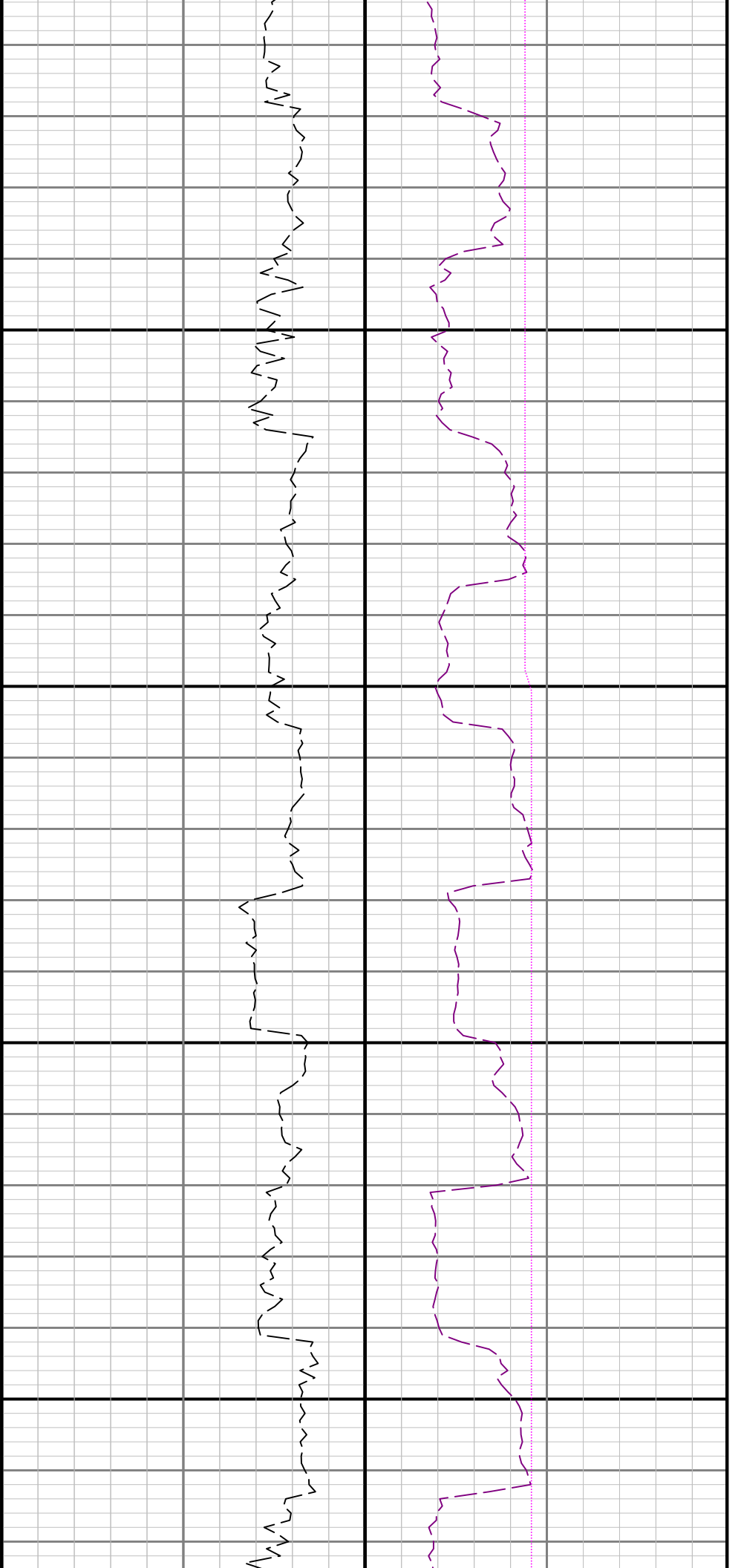


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7100

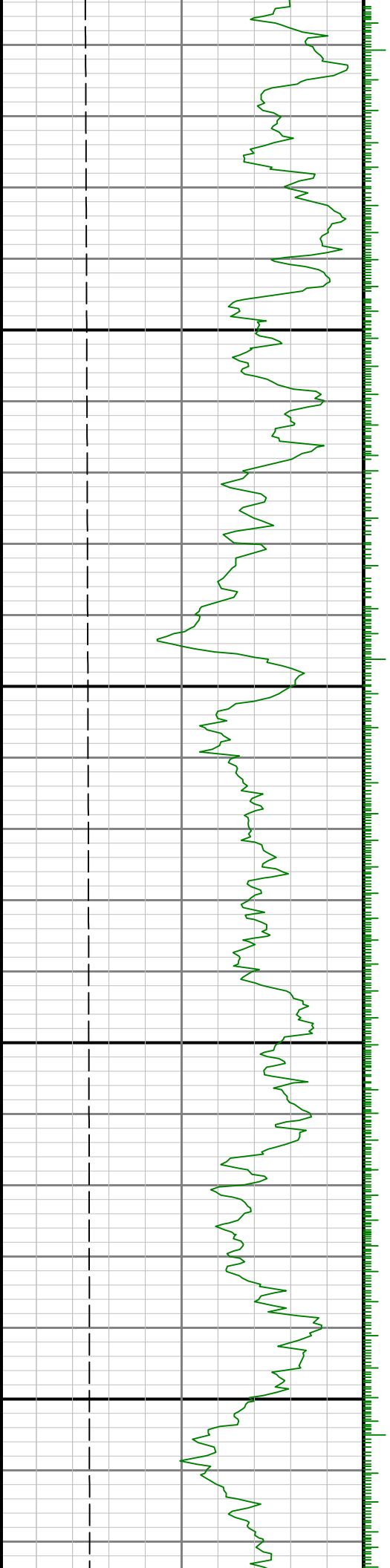


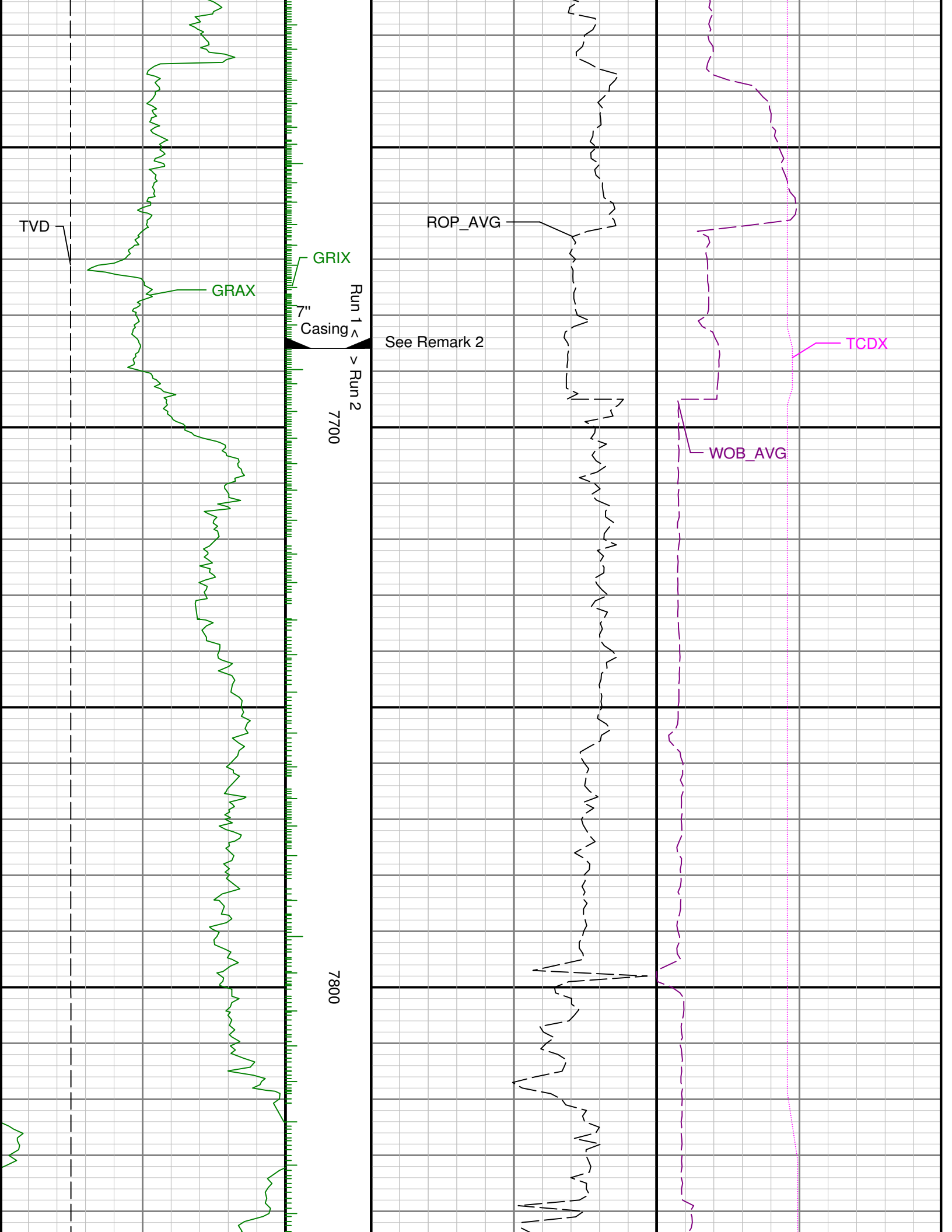


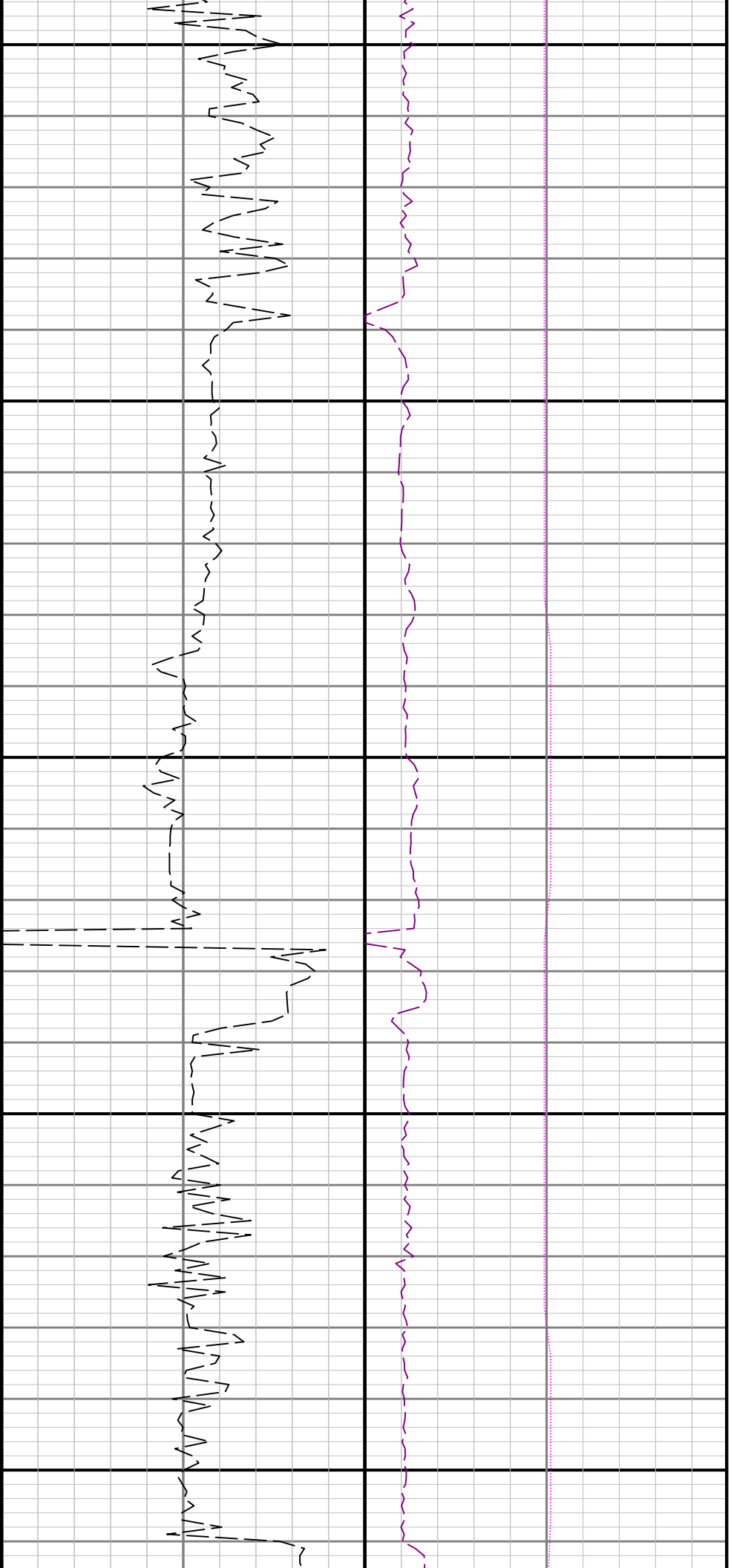


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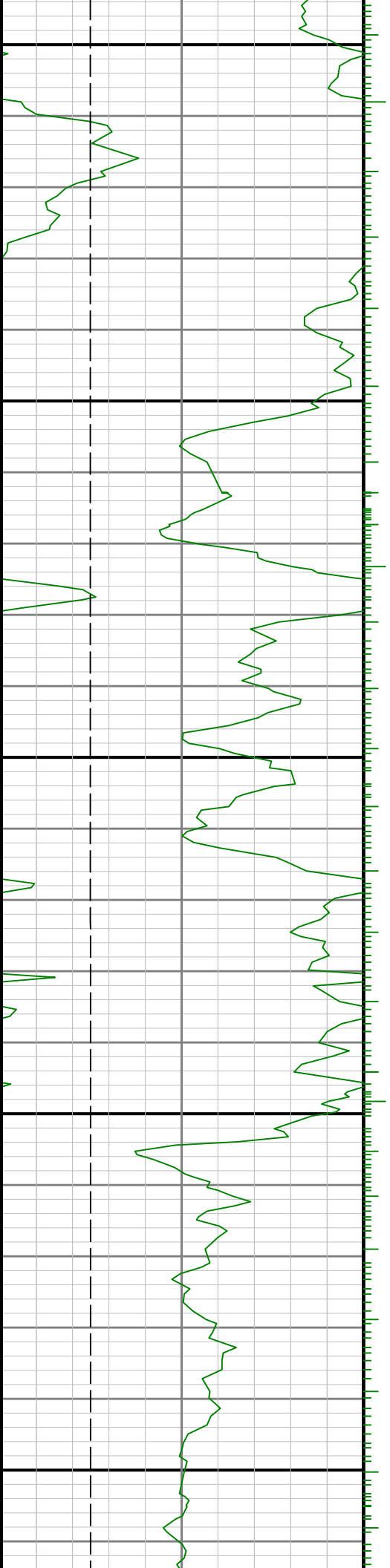


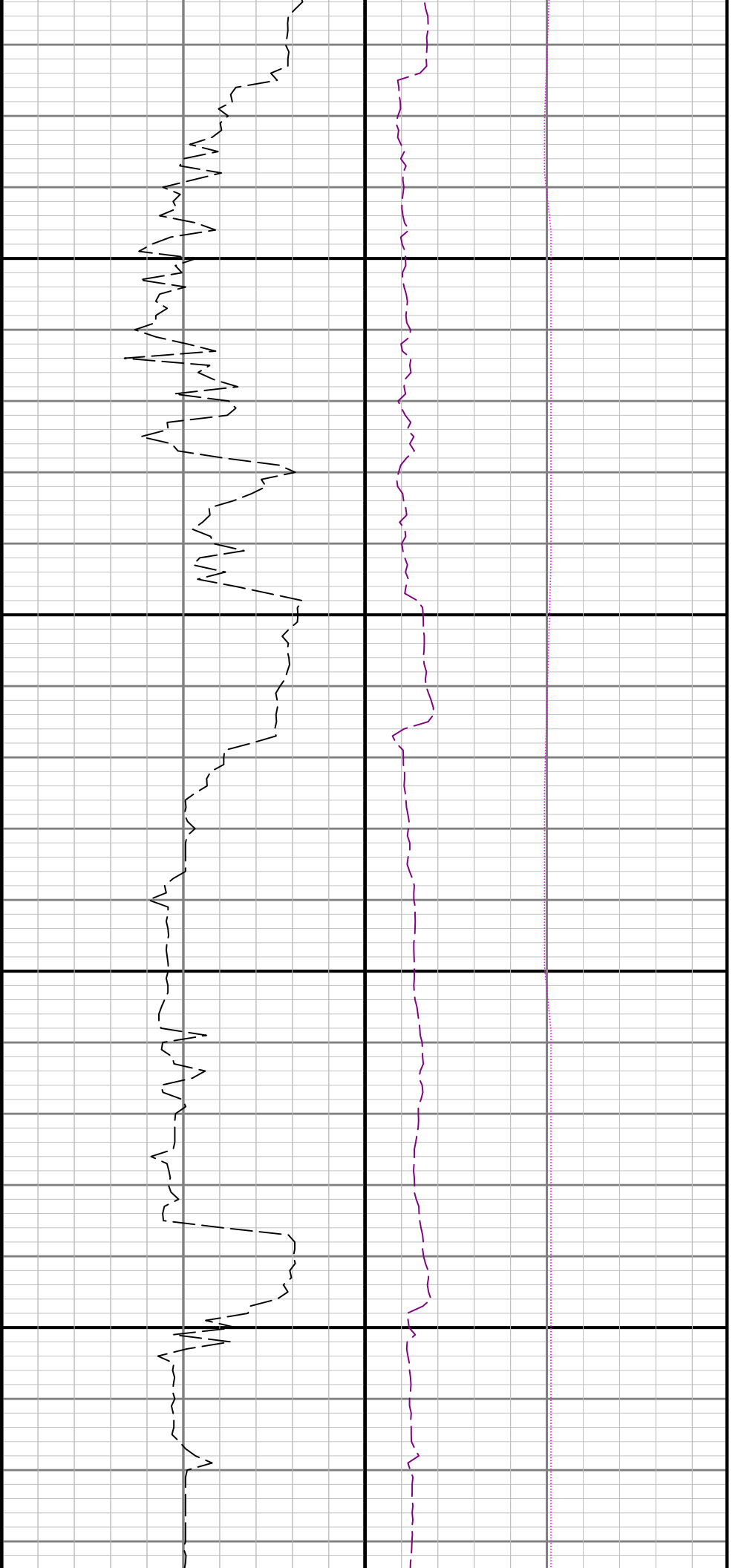




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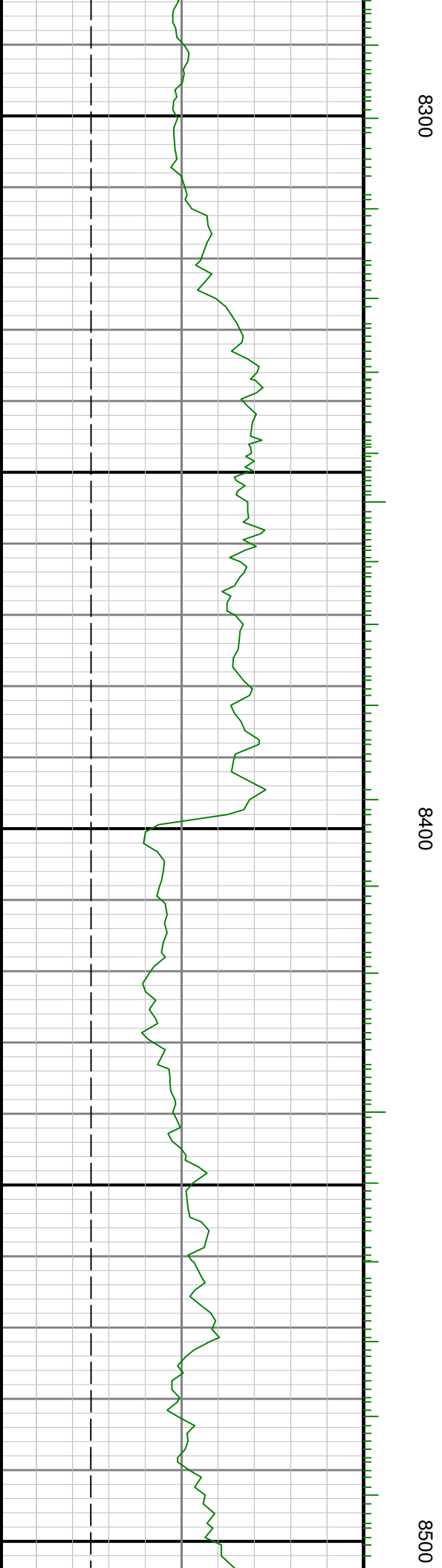
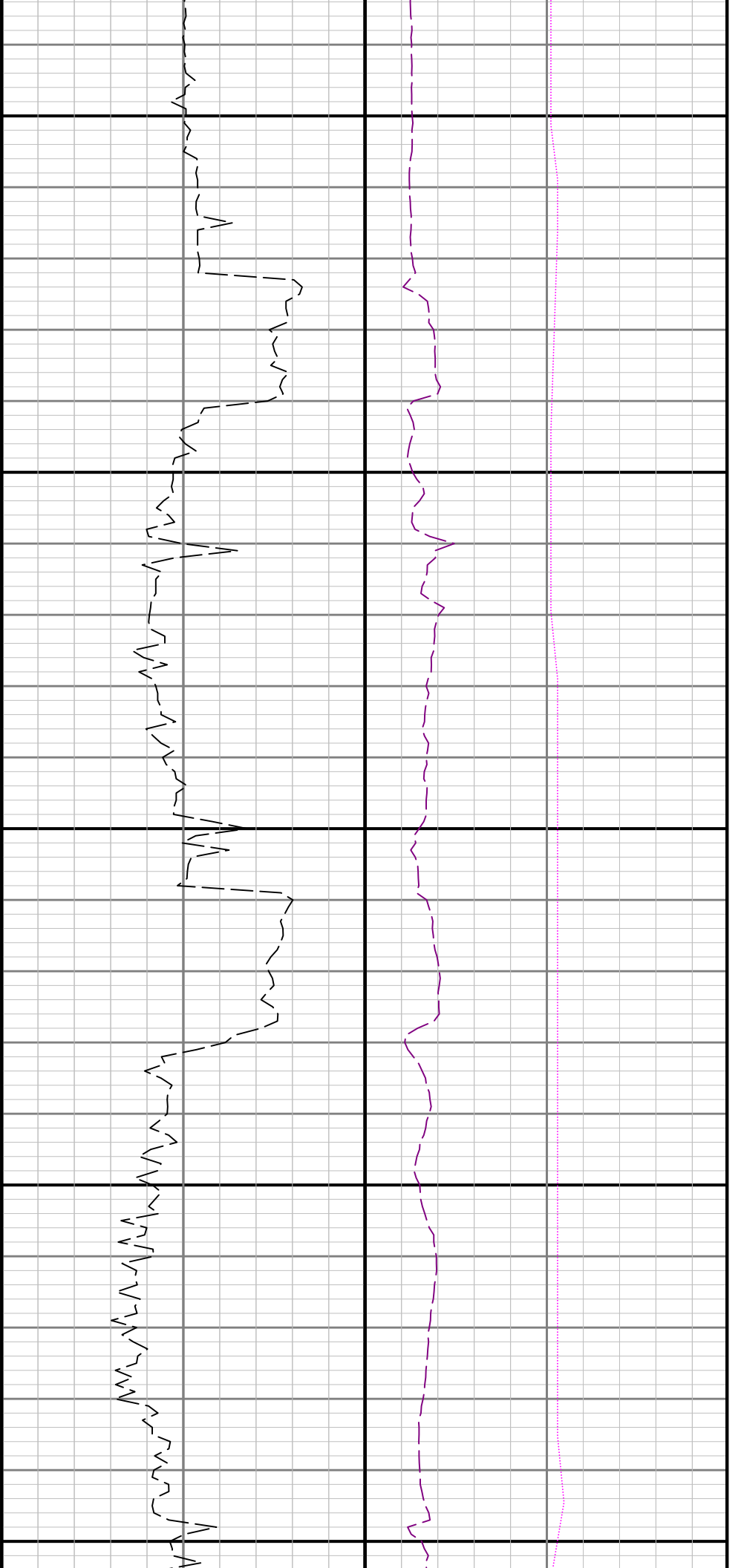
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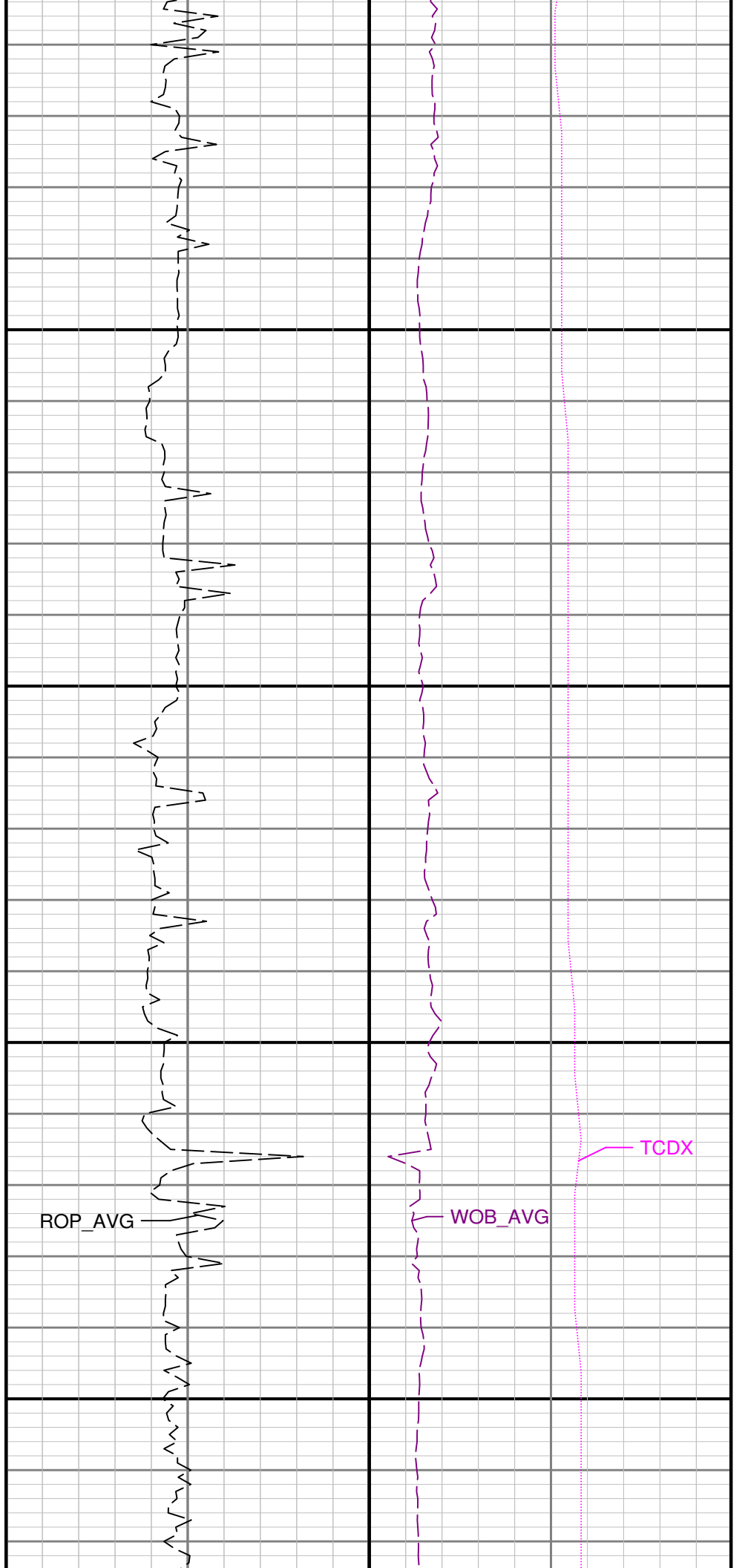
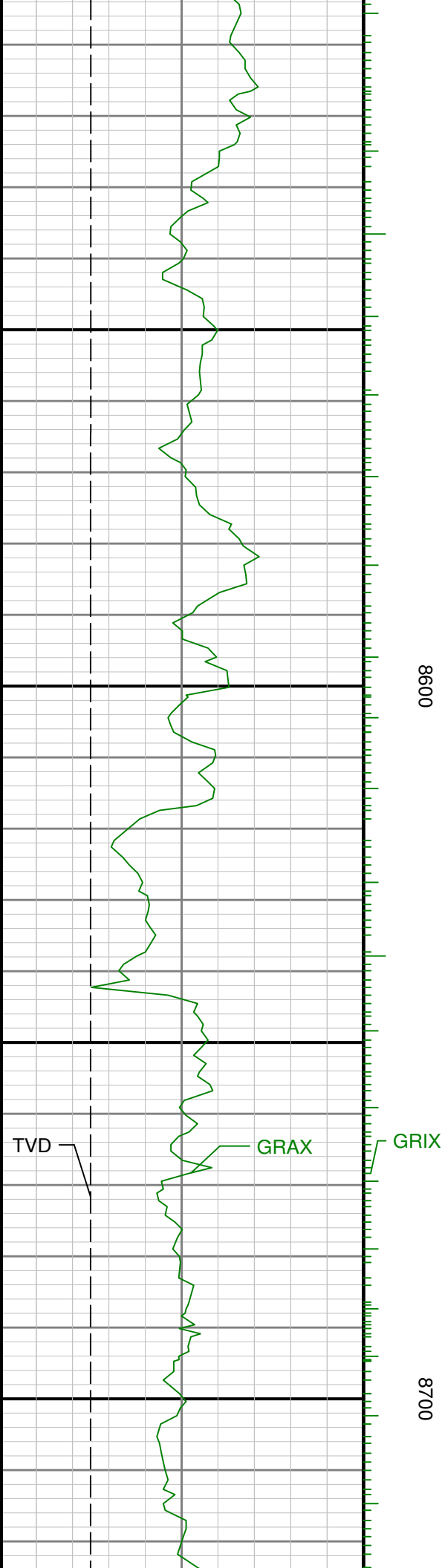


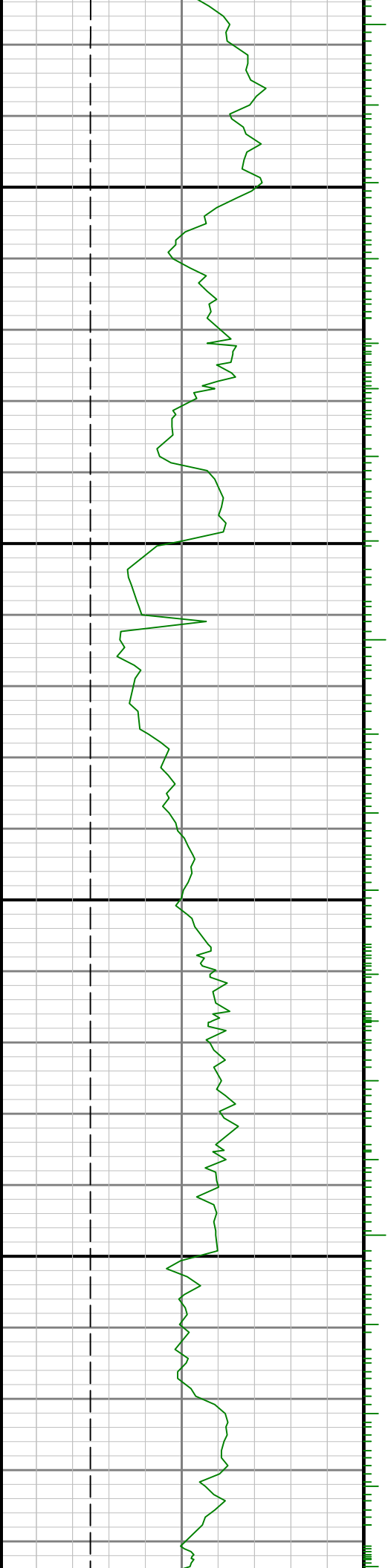


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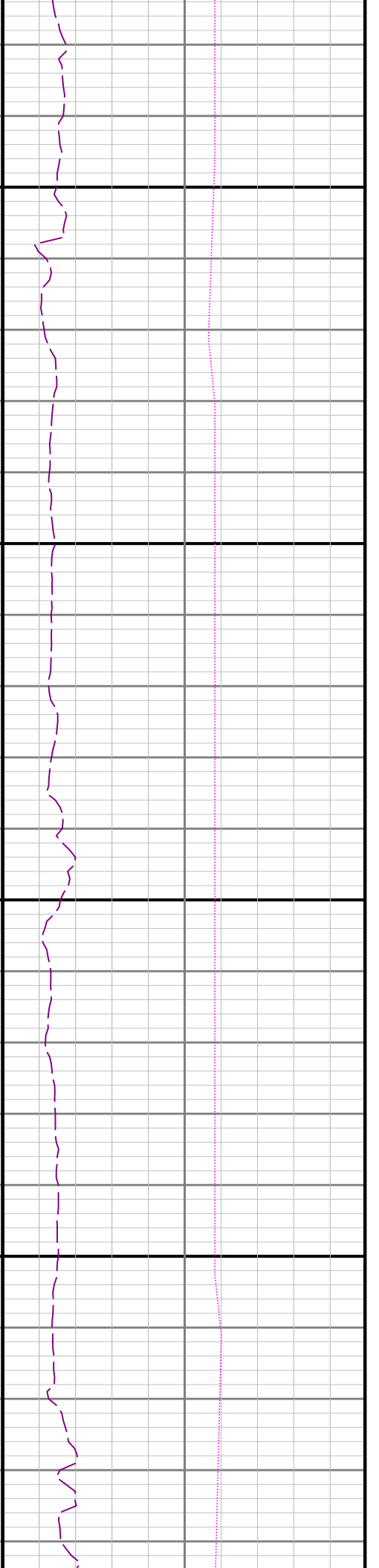
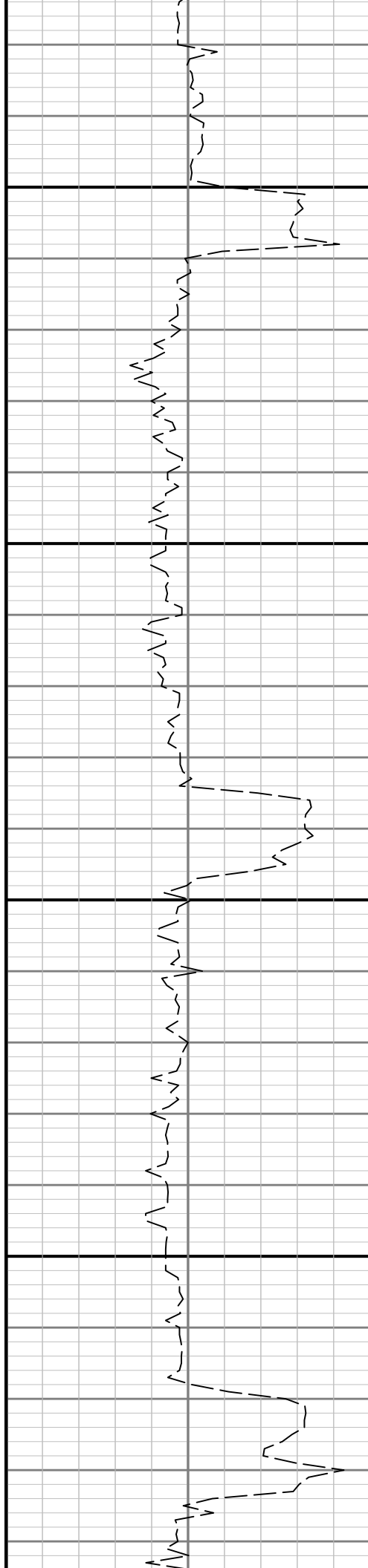


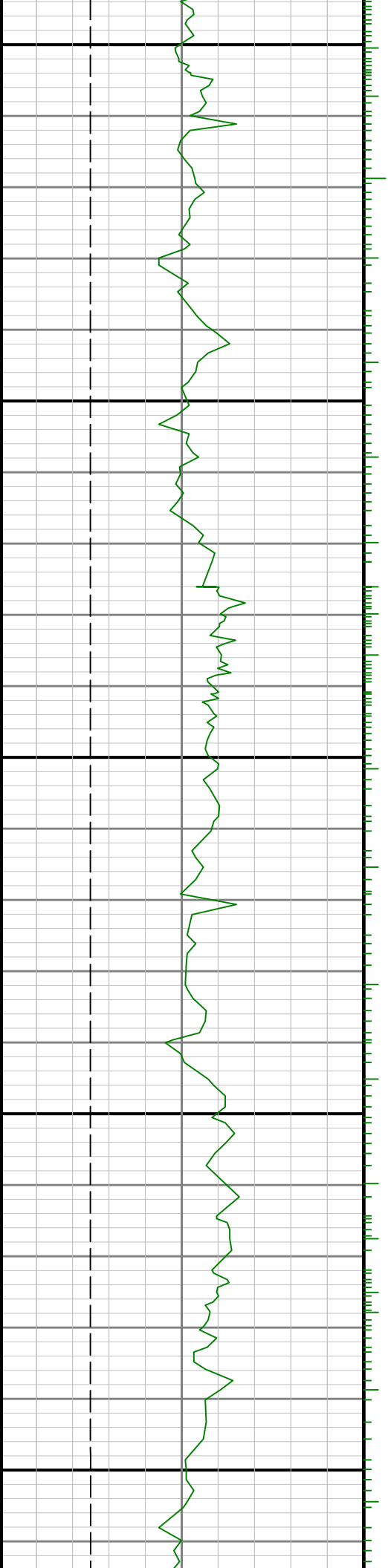




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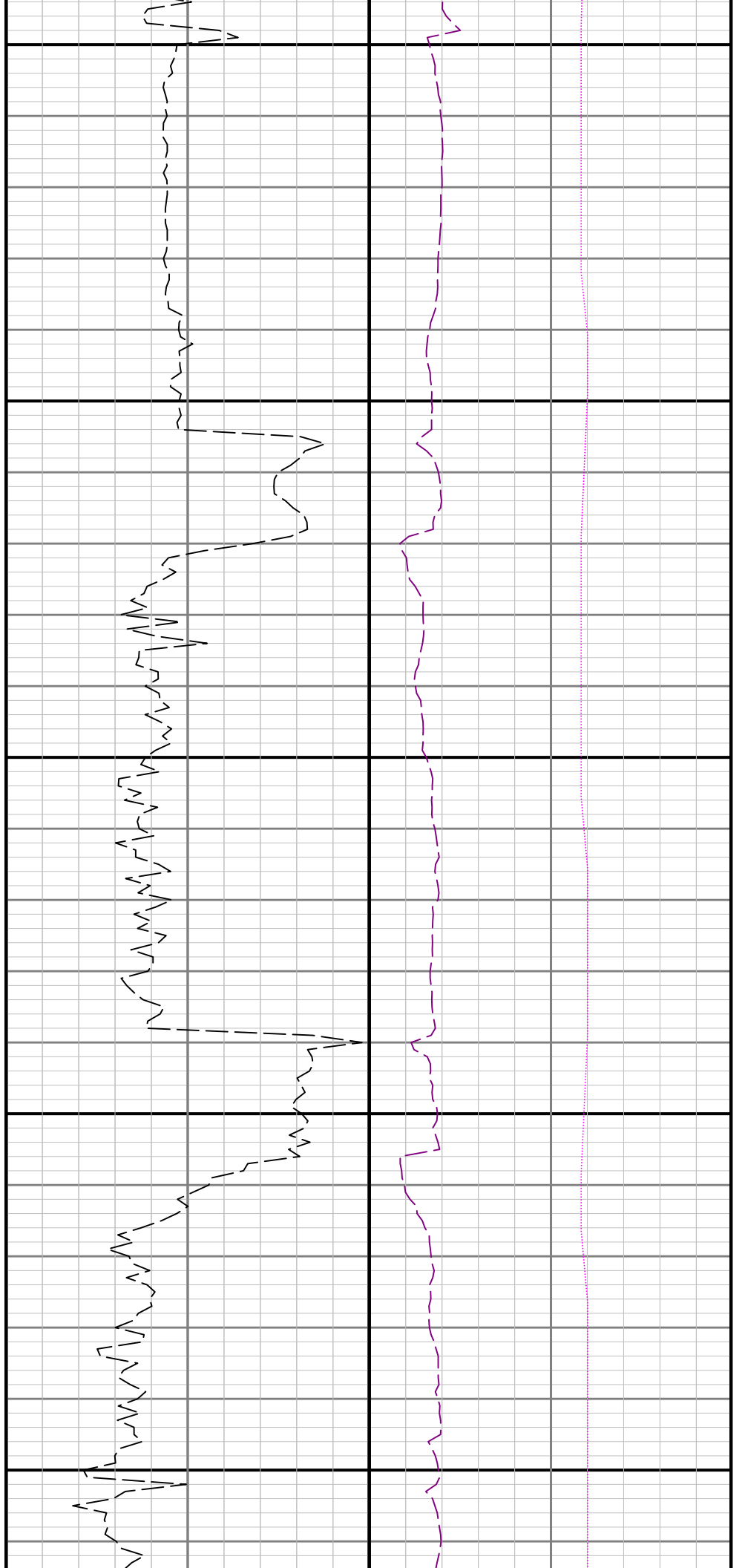
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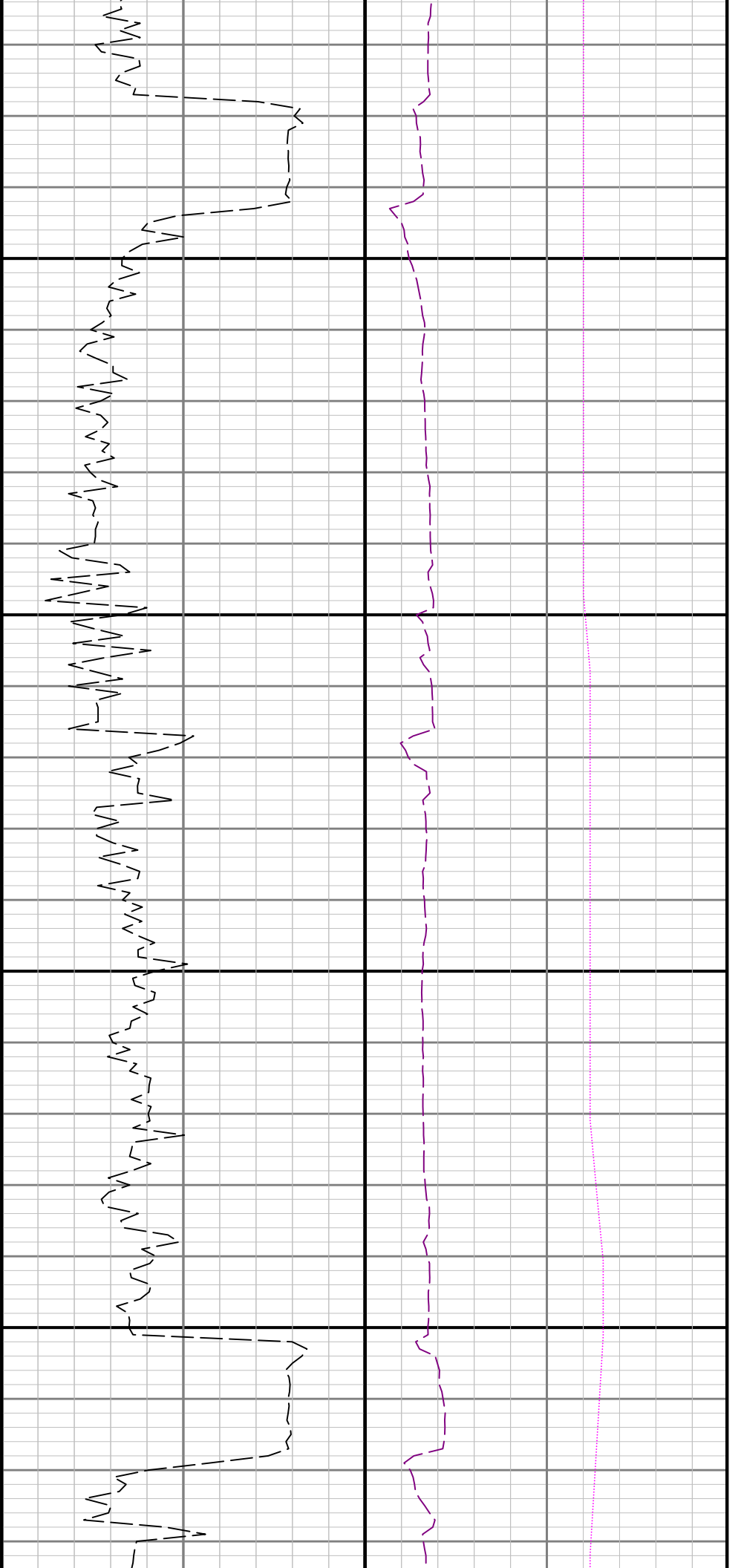




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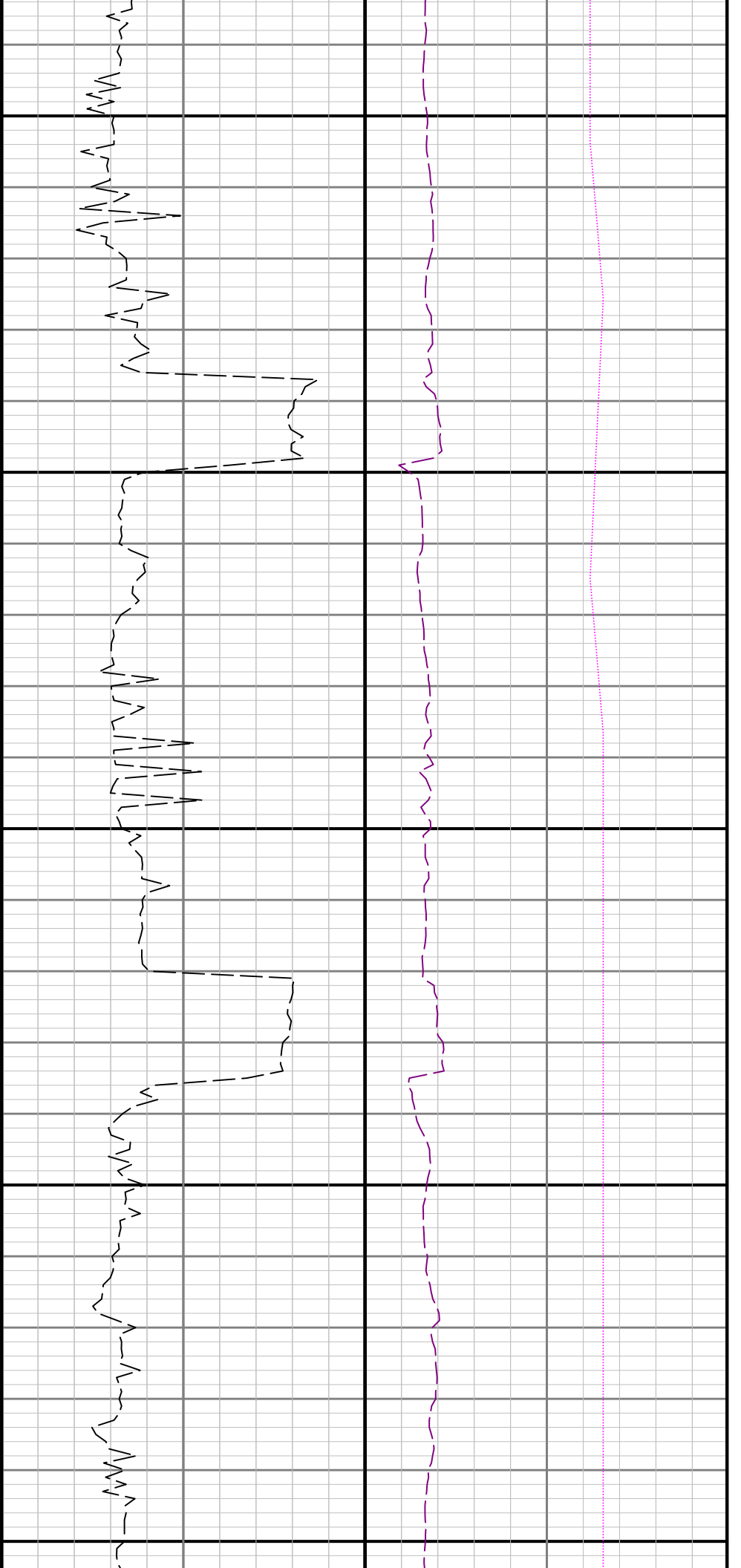
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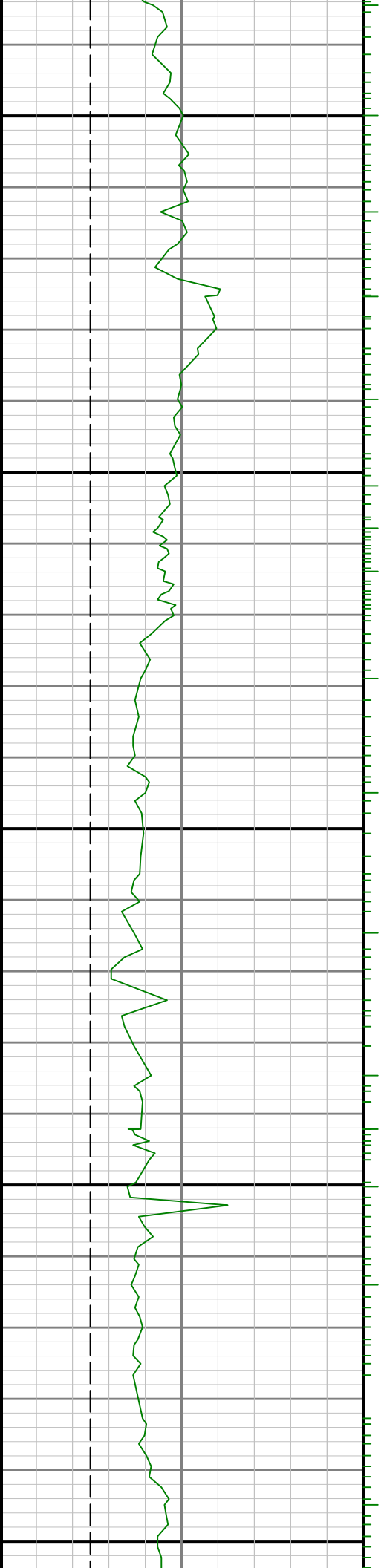
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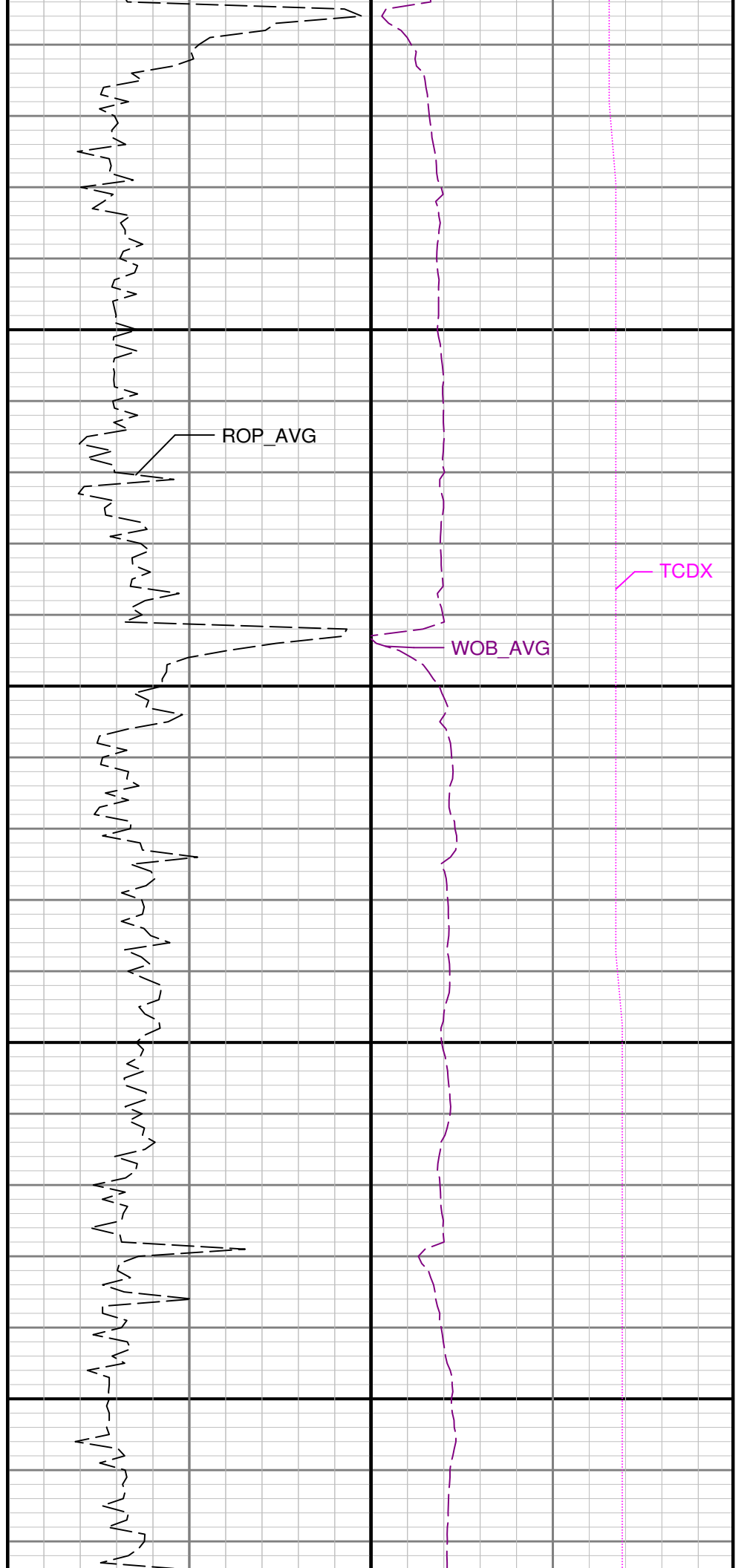
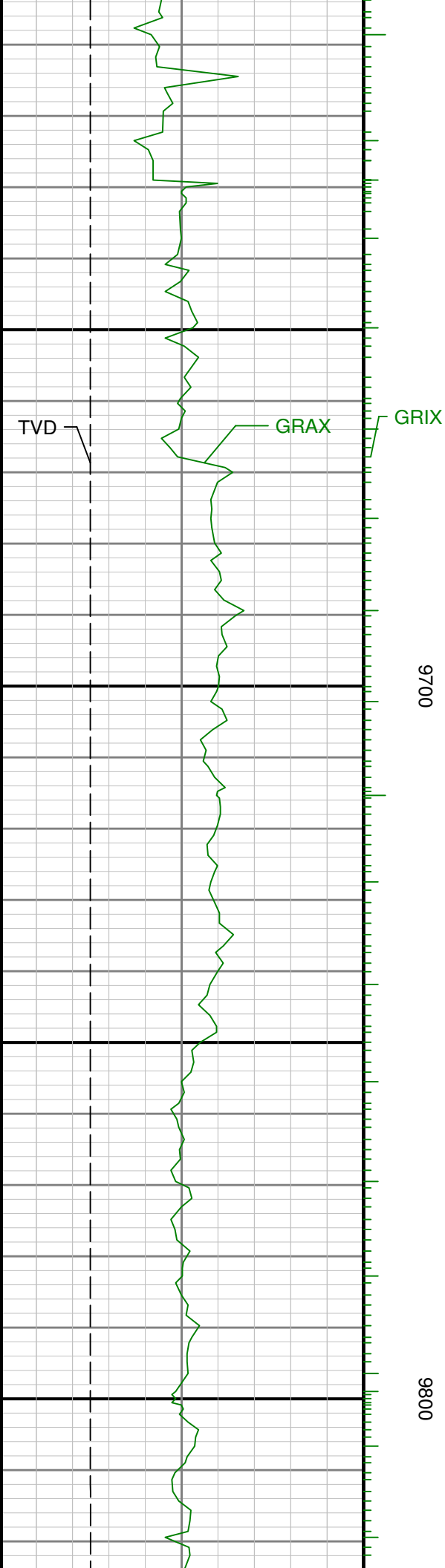


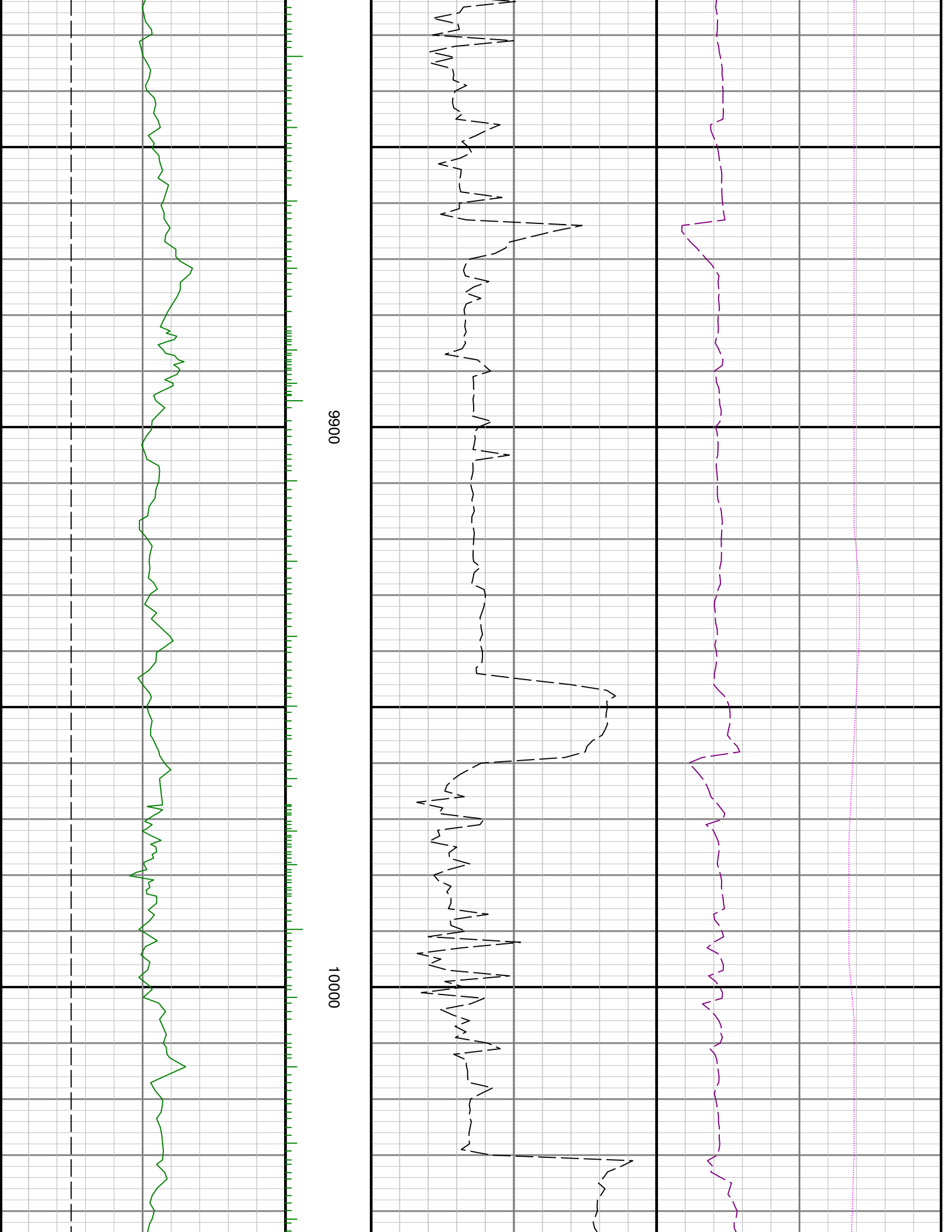
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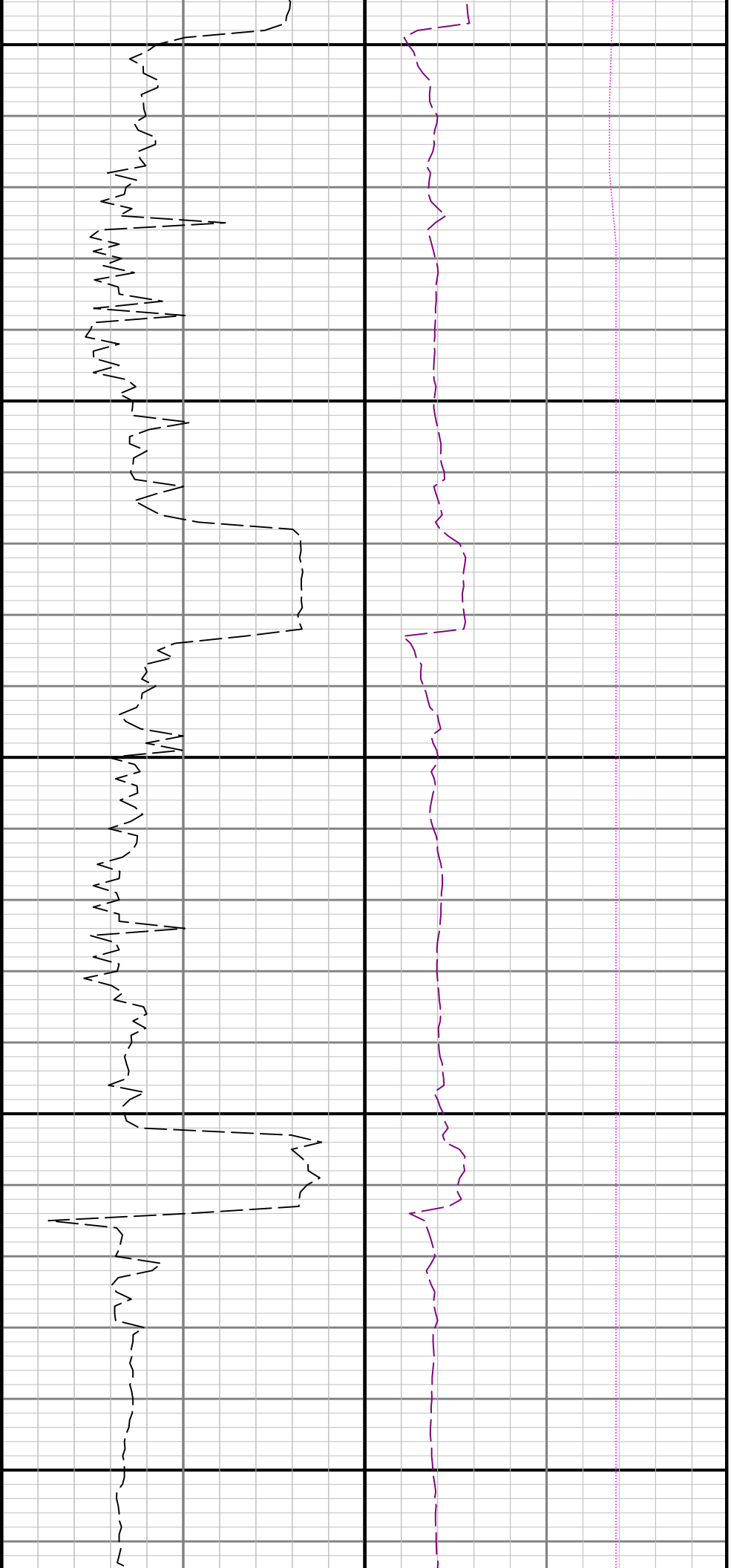
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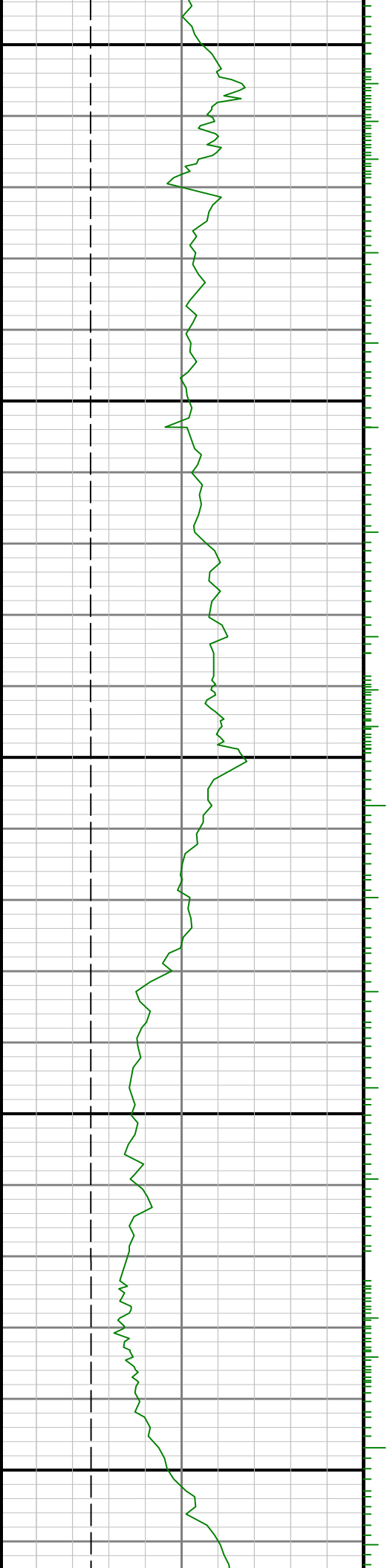


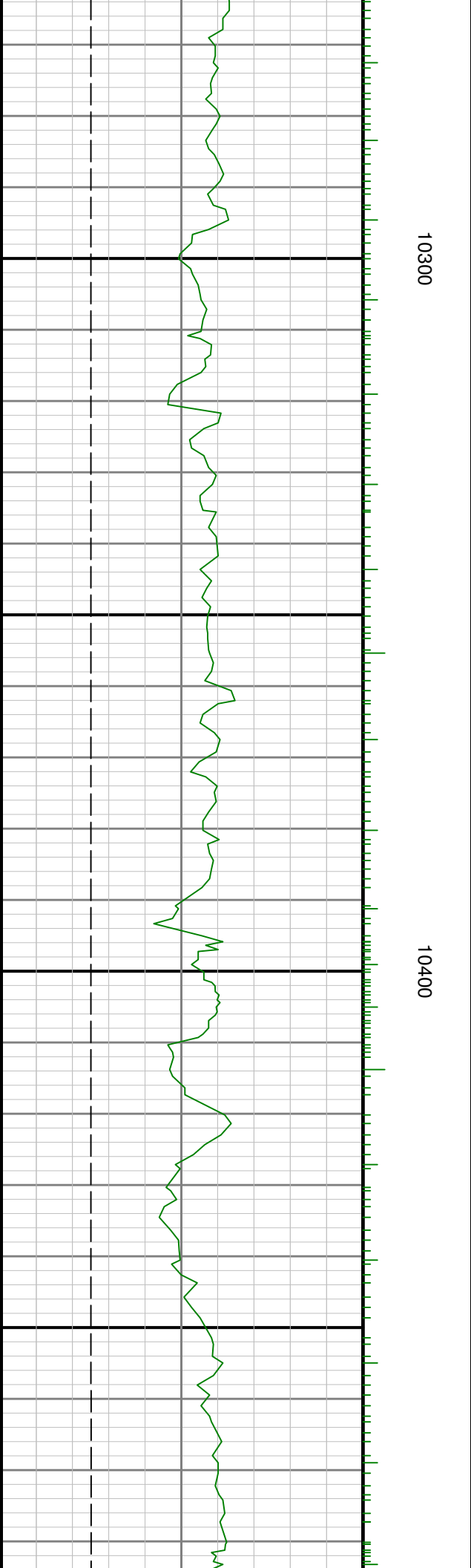
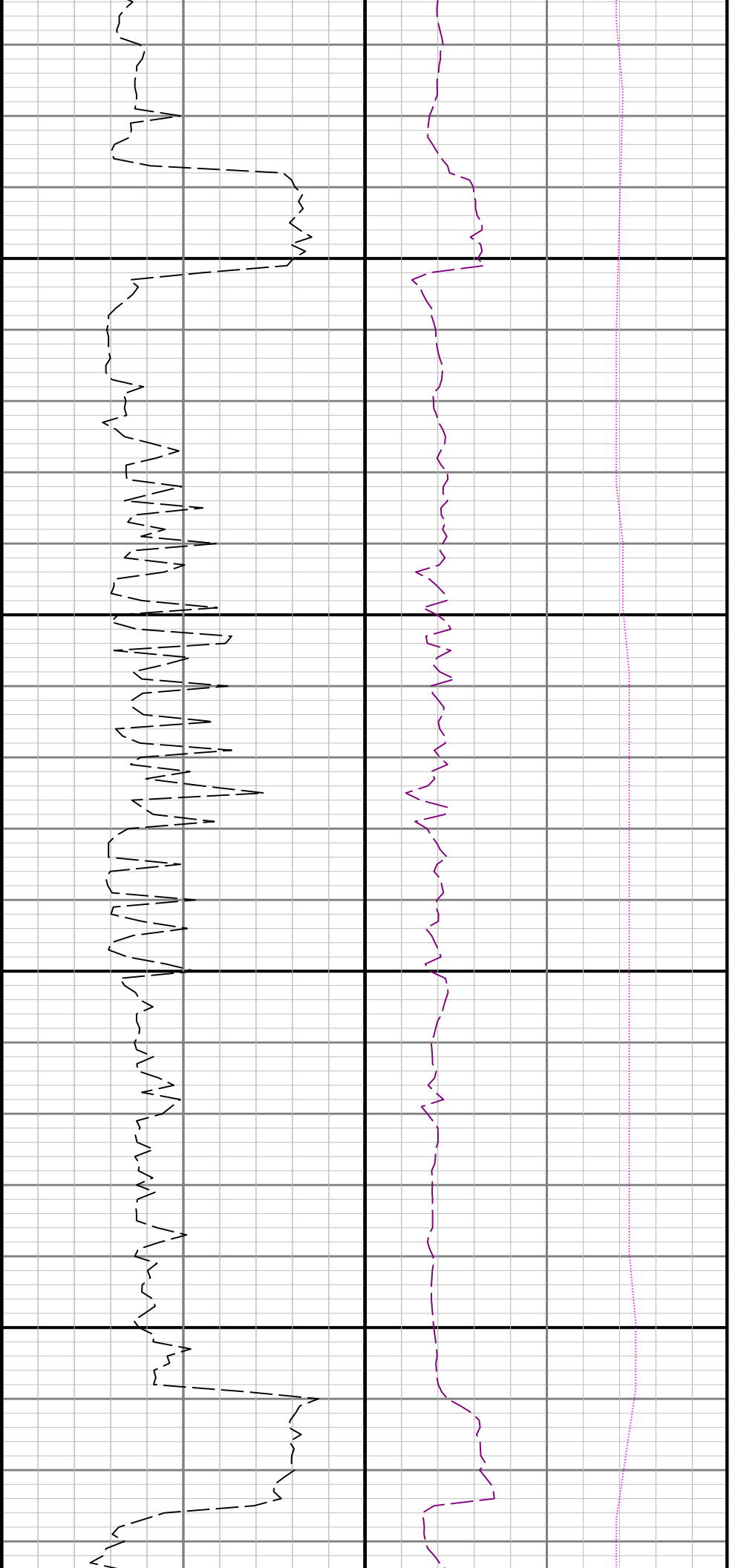


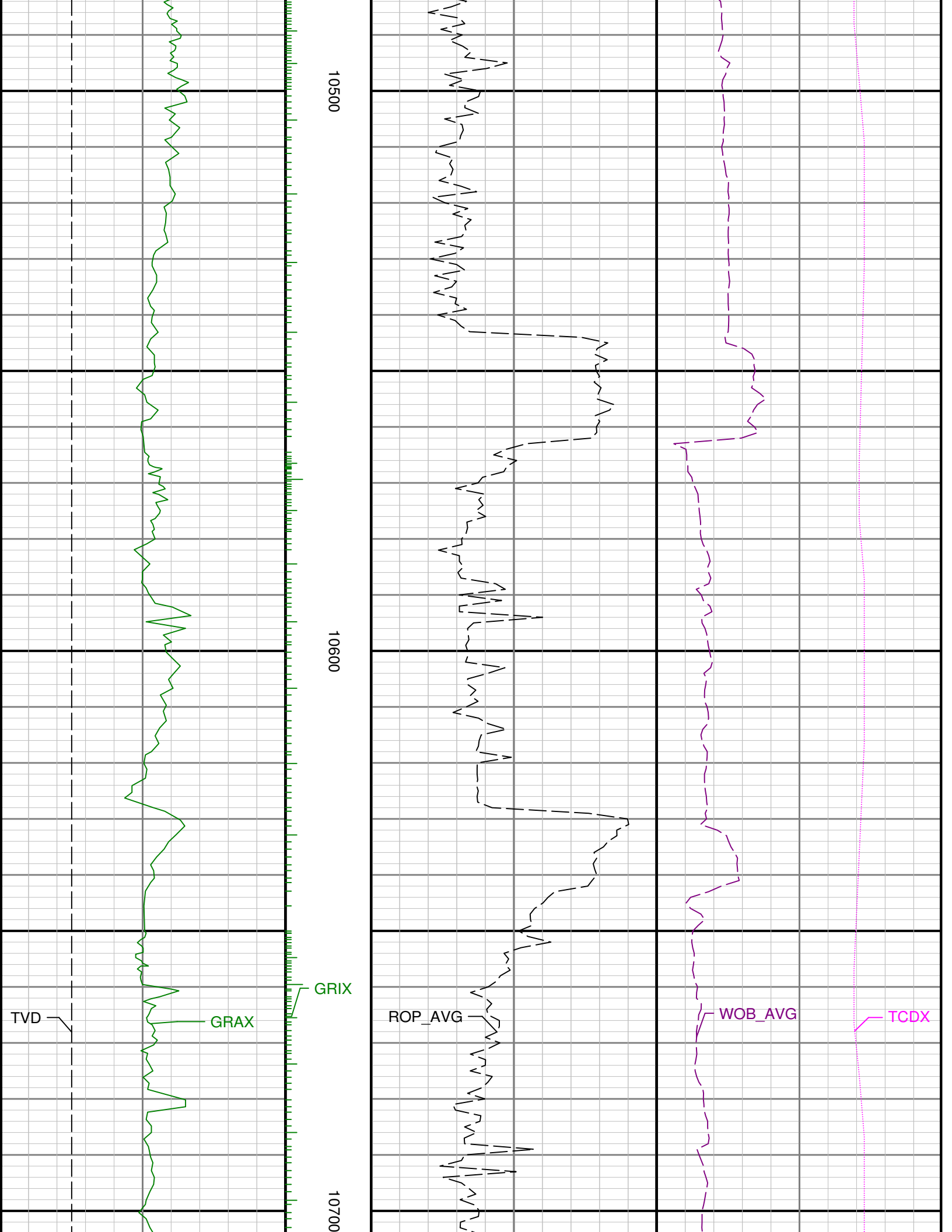


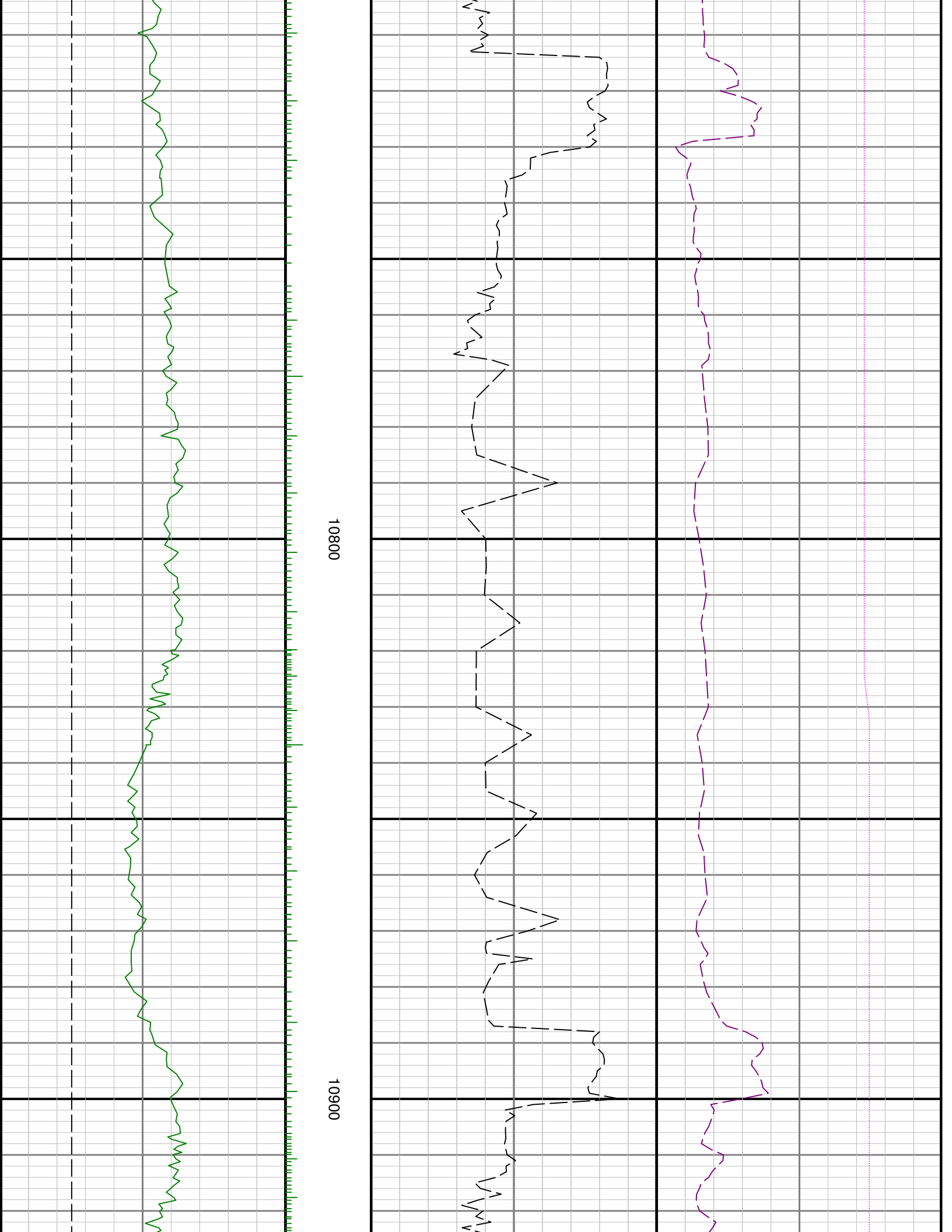
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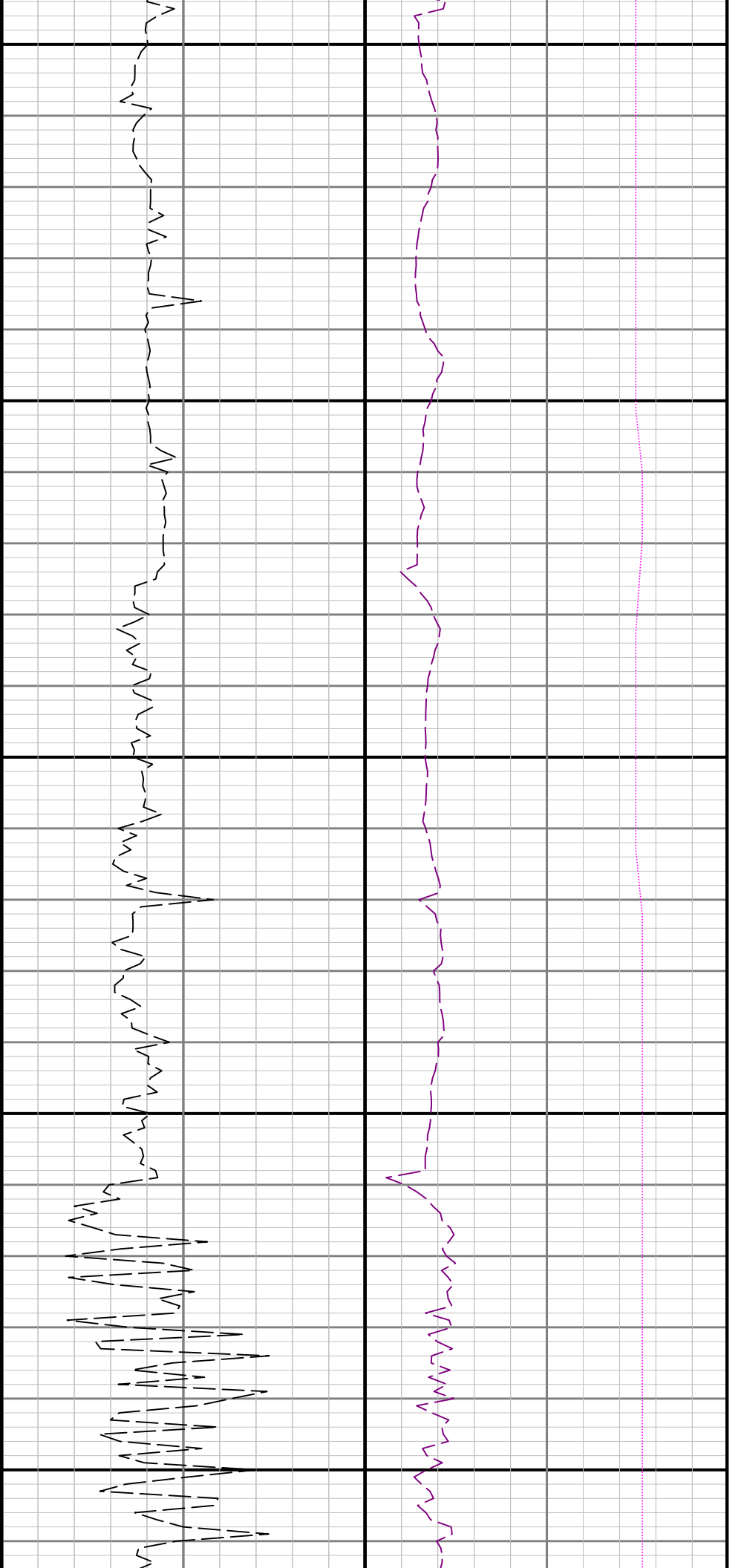
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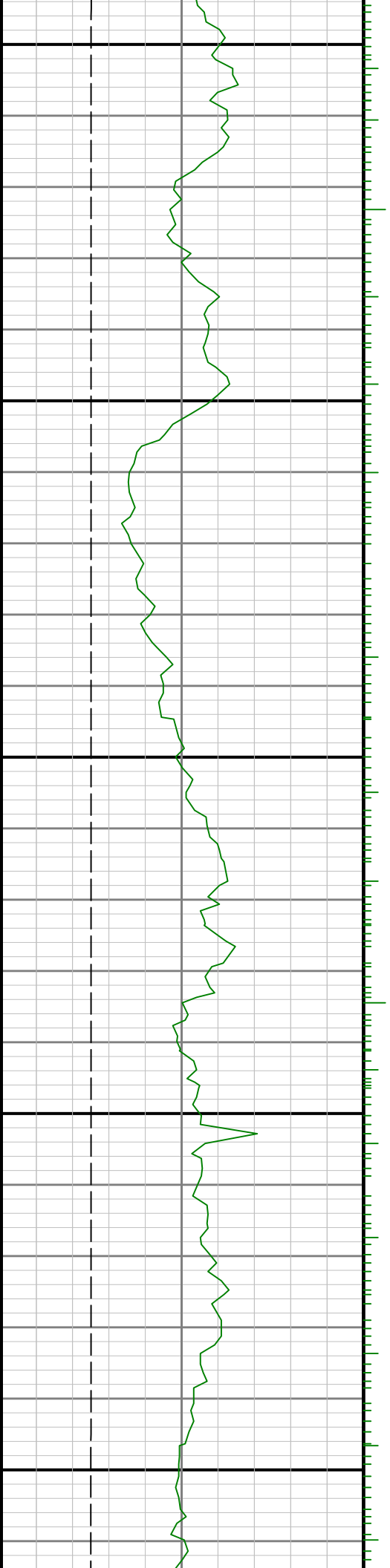
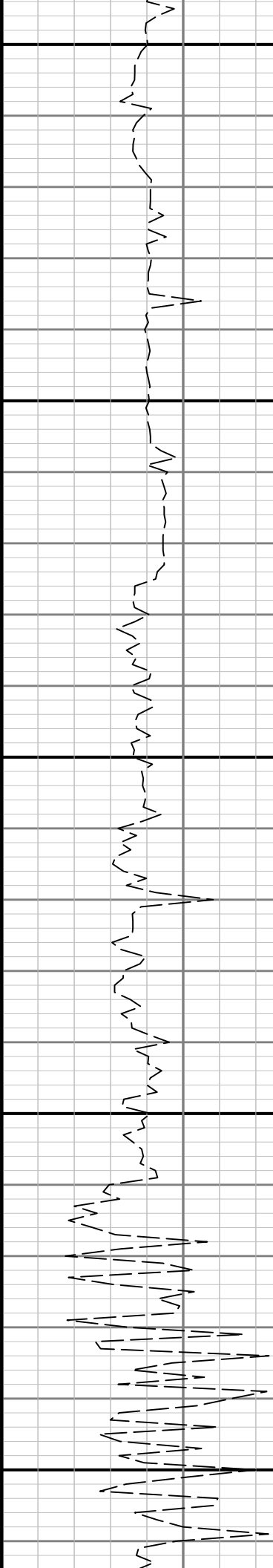


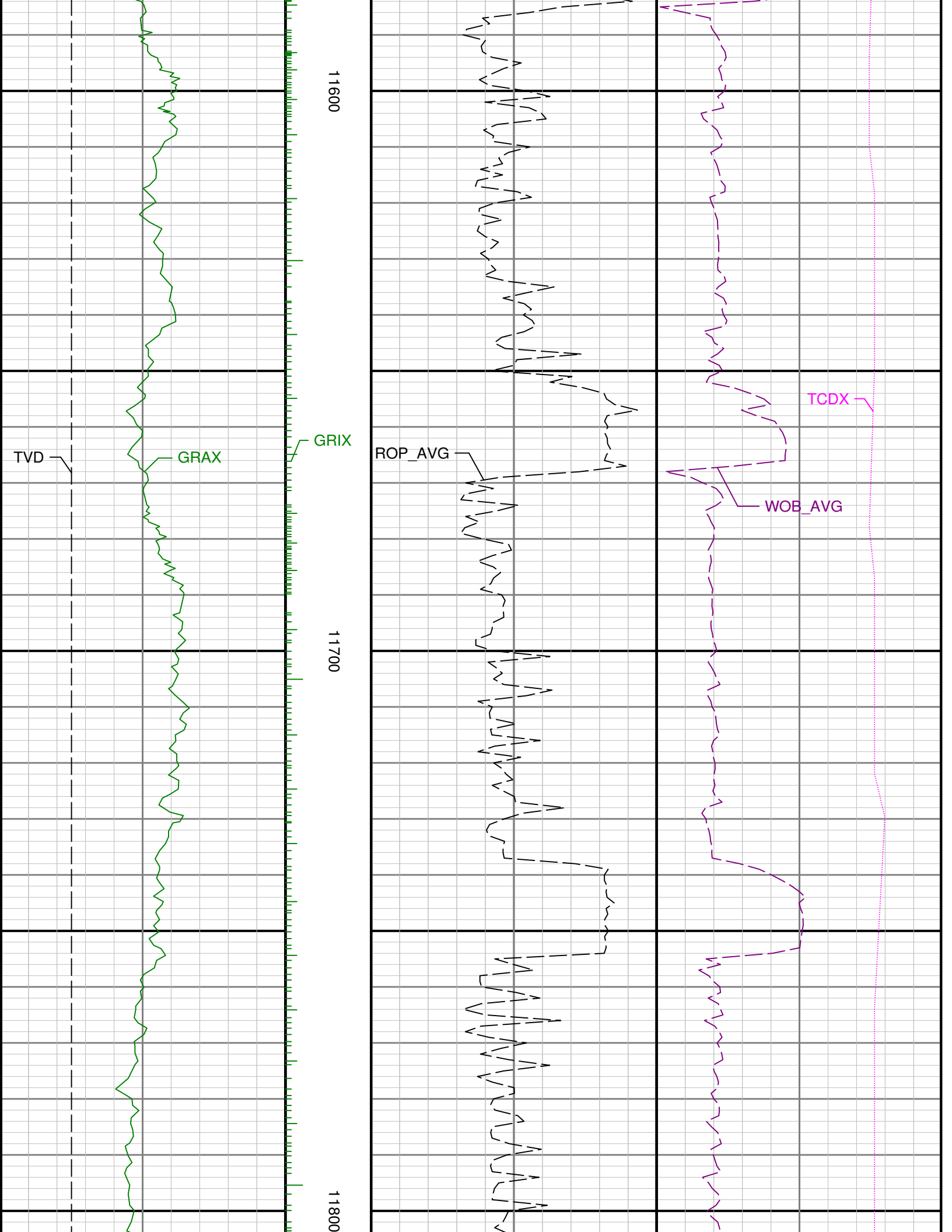


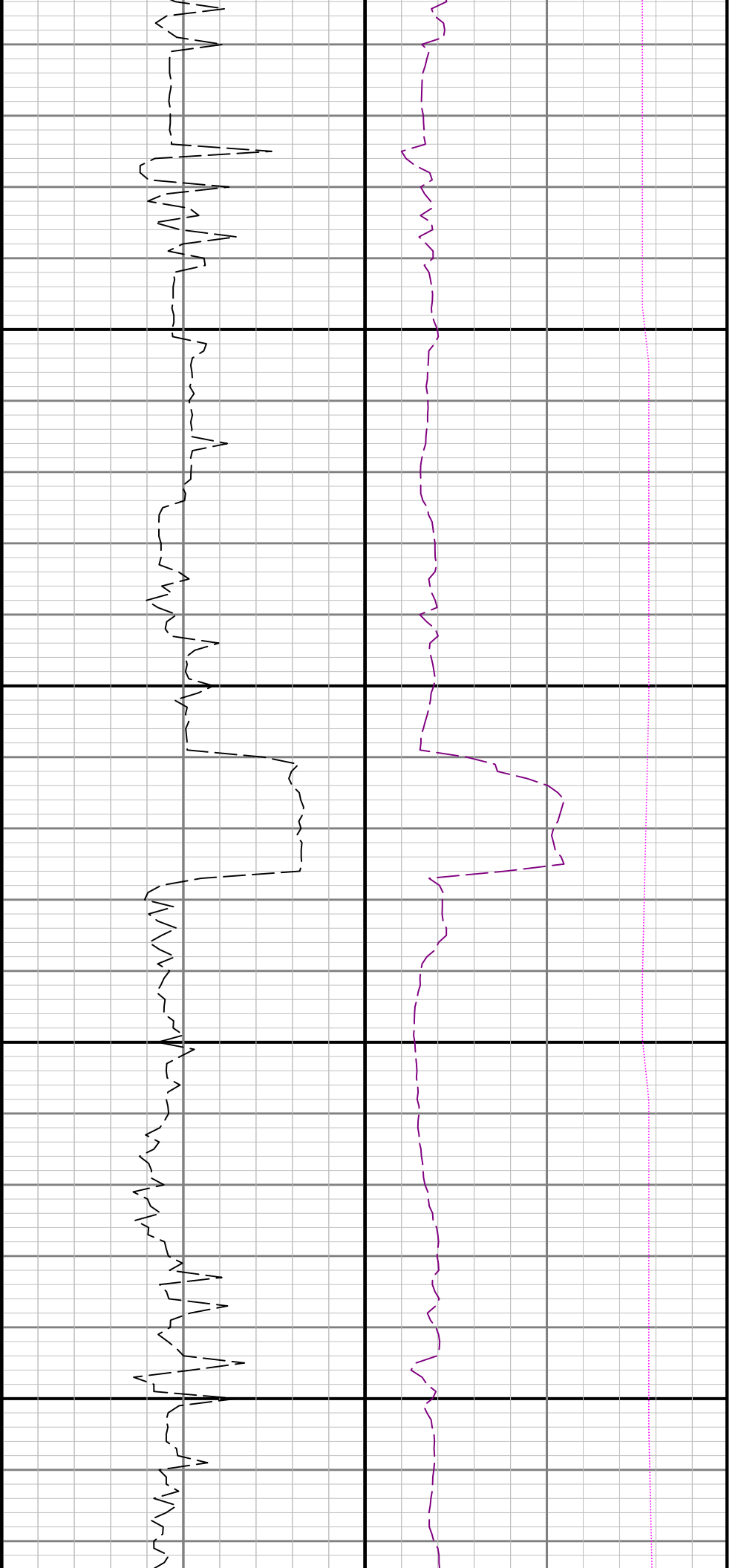


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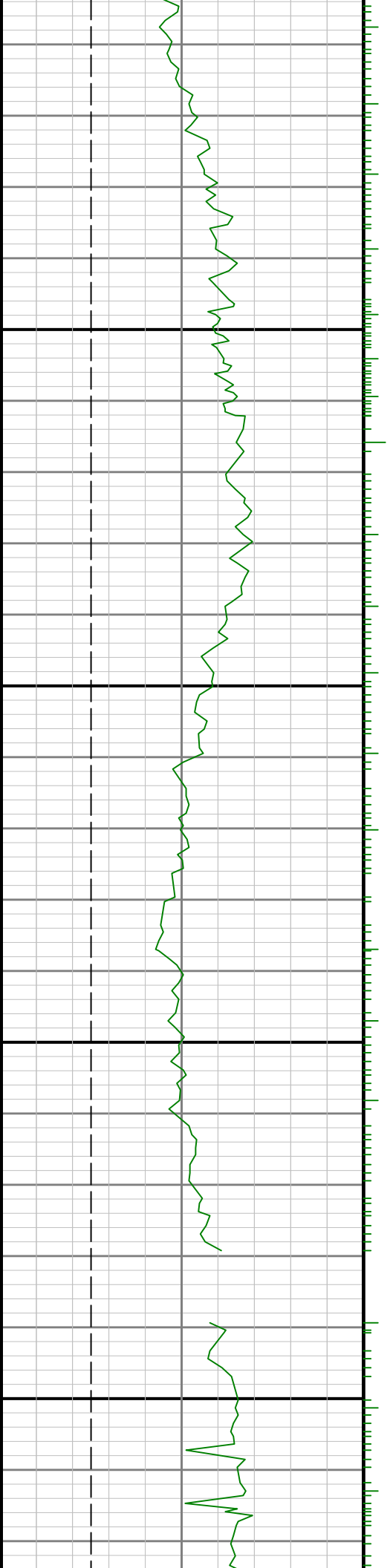


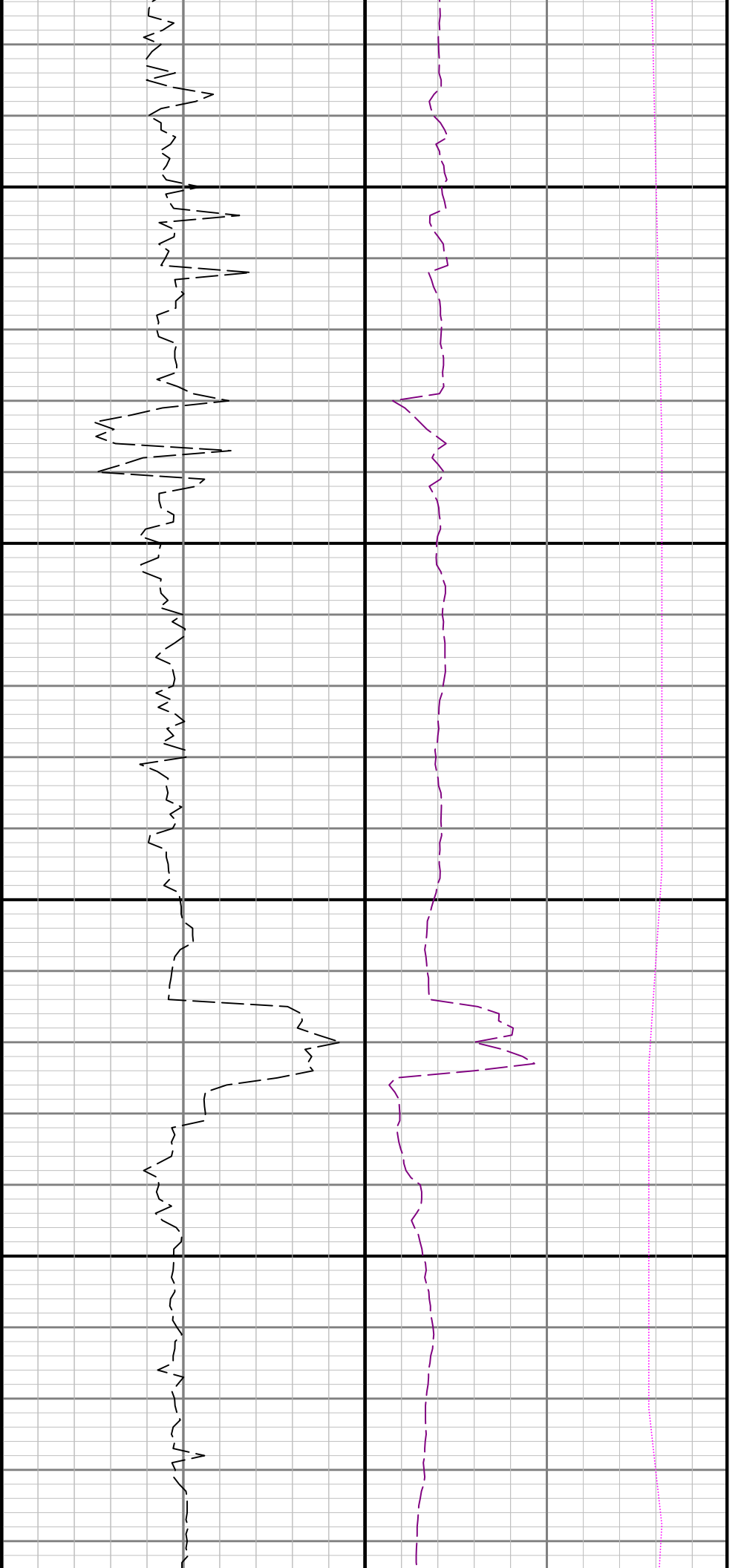




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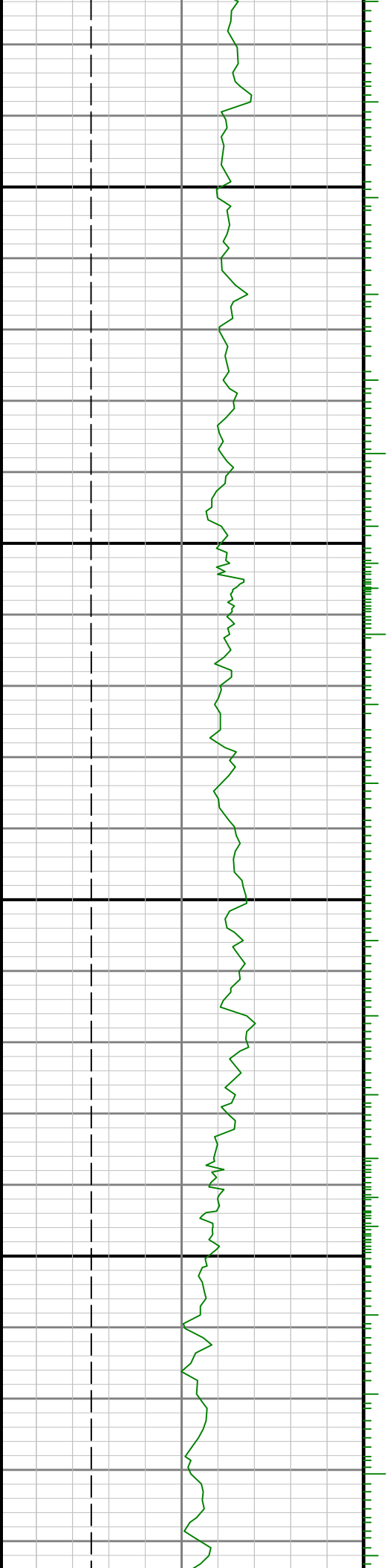
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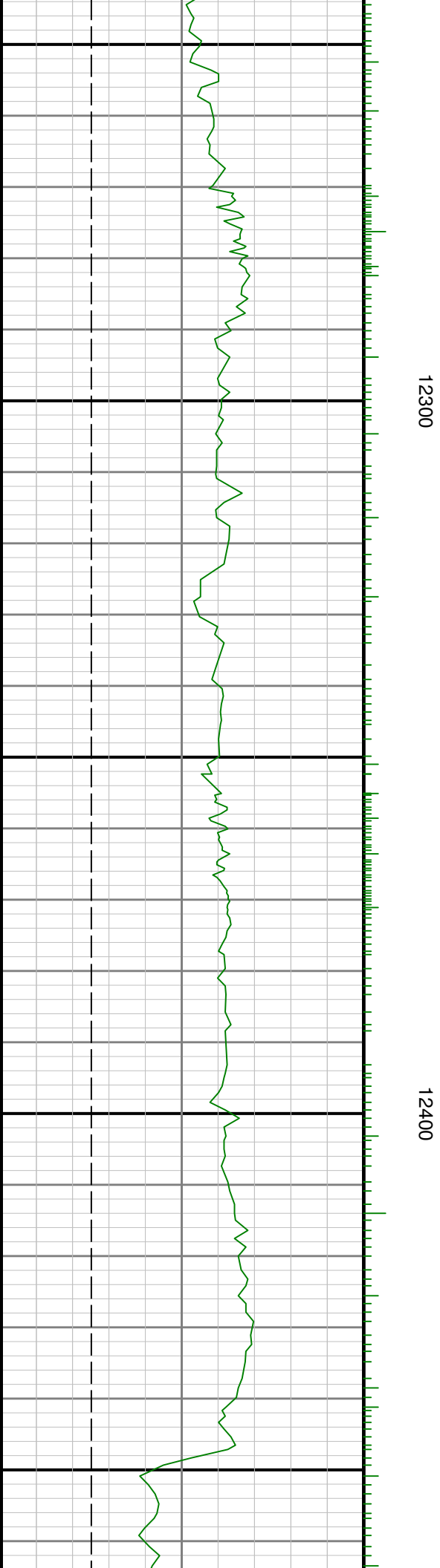
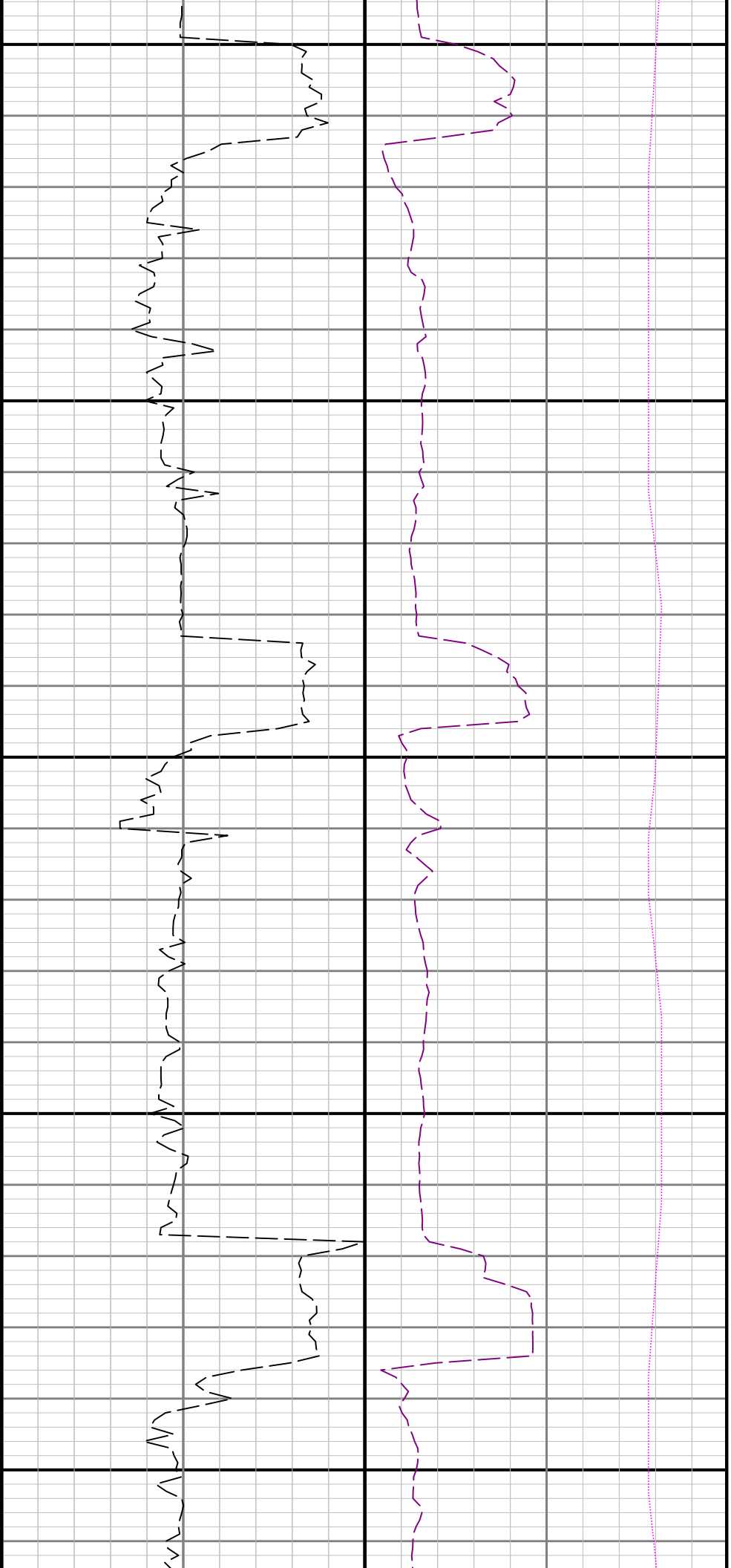


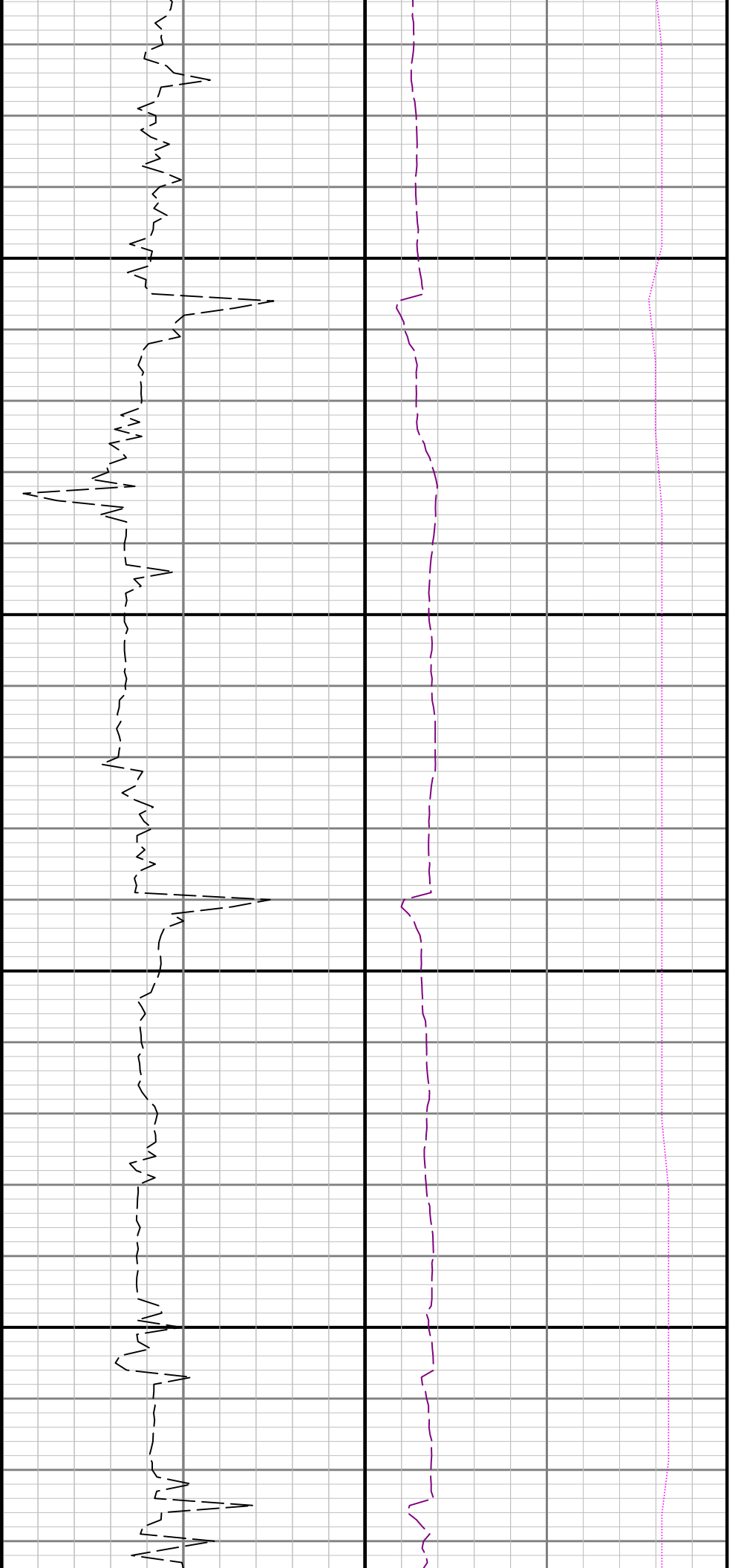


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