


LWD REALTIME LOG - RUN 1									
<div><div><div><div>BAKER HUGHES</div><div>a GE company</div></div><div></div></div><div>Drilling Dynamics</div><div>Gamma Ray</div></div>									
Scale:			Company: Anadarko						
1:240 MD			Well: Cowboy 21-4HZ						
Depth Reference:			Field: Weld County						
Driller's Depth			County: Weld County Country: United States						
State:			Colorado						
Status:			Surface Location:				Other Services:		
Field Print			Latitude: 040° 07' 28.830" N				Wellbore Survey		
API No: 05123471040000			Longitude: 104° 53' 21.696" W						
Job ID: 109372790			SEC: 21 TWN: 2N RGE: 67W						
Permanent Datum (P.D.): Mean Sea Level			Elevation: 0.00 ft				Elev. KB: N/A		
Log Measured From: Rig Floor			Above P.D. 5067.00 ft				Elev. DF: 5067.00 ft		
							Elev. GL: 5041.00 ft		
Dates			Interval Drilled				Magnetic Field Reference		
Date From: 2018-09-27			Top: (ft) 1891.00		Azi Reference North: True		Dip Angle: (deg) 66.63		
Date To: 2018-09-30			Bottom: (ft) 15547.05		Total Magnetic Field Strength: (mT)		52261		
Spud Date: 2018-09-28					Mag to Reference North Correction: (deg)		8.29		
Mud Record						Deviation Record			
Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Az (Start)	Inc Az (End)			
Diesel-Oil Based Mud	1891.00	15547.05	8.500	13656.05	18.24 217.67	90.06 357.45			
Acquisition System									
Baker Hughes Cadence			Software Version			Other			
DeliverableGen			RT 4.2			Rig: Precision 564			
			1.0.8107.2			Contractor: Precision Drilling			
						District: N/A			
						Unit: N/A			


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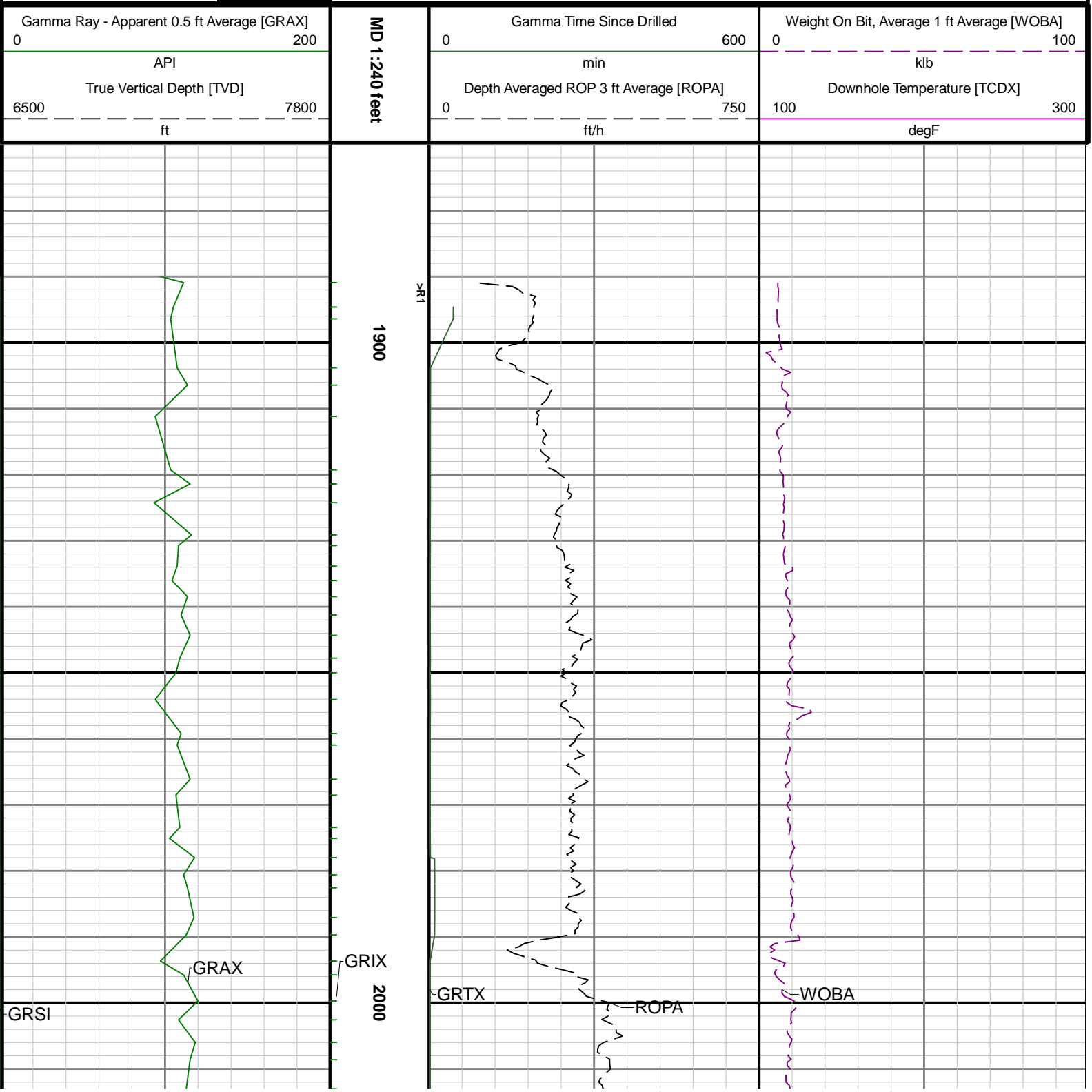
Log Run Summary													
Run No	Bit Run No.	Bit Size (in)	Bit Type	Bit Gauge Length (in)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Hours (h)	
						Top (ft)	Bottom (ft)	From (ft)	To (ft)	Start Logging	End Logging		
						1	1	8.500	PDC	N/A	AutoTrak Curve		1878.11
Crew													
Name			Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite	Name			Arrive Wellsite	Depart Wellsite
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+ (%)	
2018-09-28 08:46		1	6324.00	Diesel-Oil Based Mud	9.1	58	N/A	5.9	70/30	Active Pit	39000	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)		

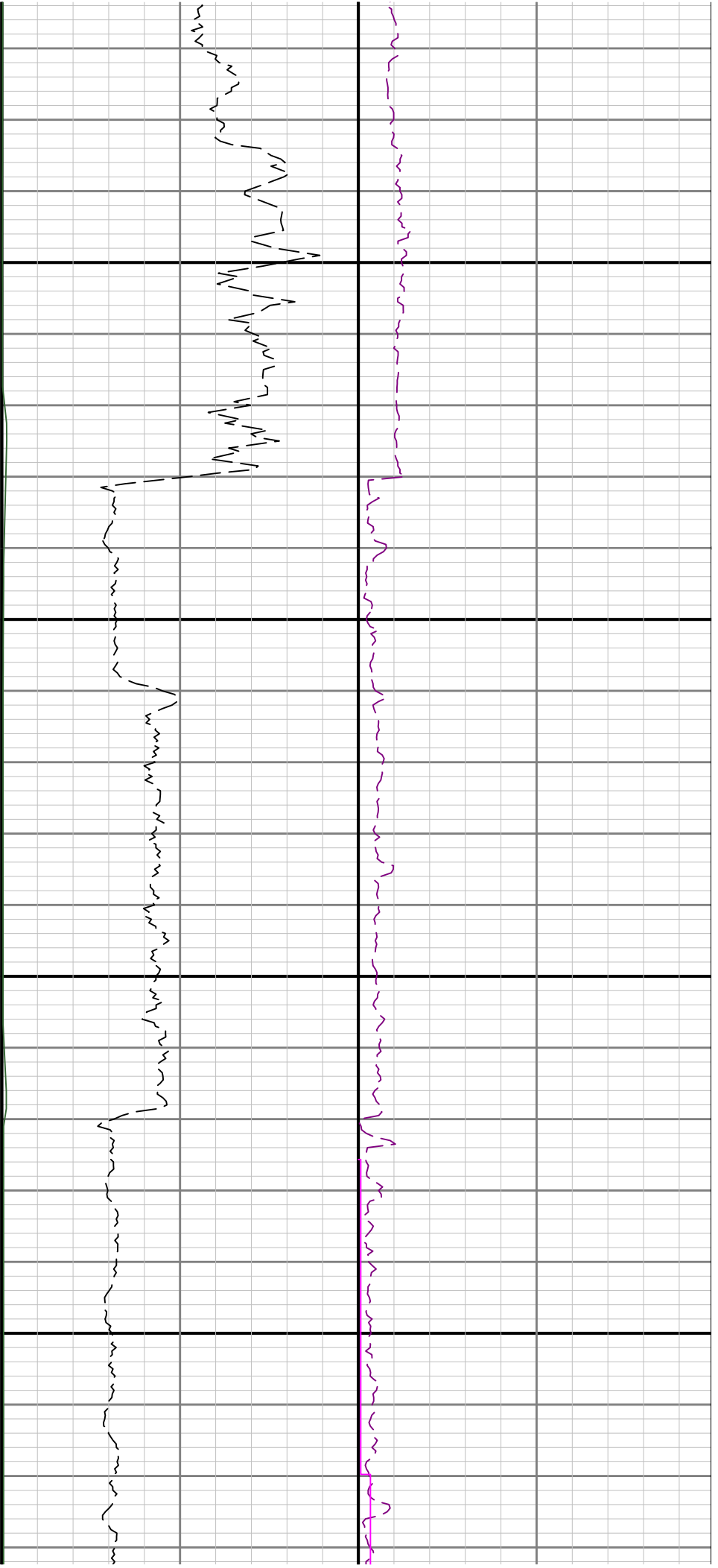
1	ATC_SU	12194646	Near Bit Inclination	5.93	6.73	7.000	4.330
1	ATC_SU	12194646	Near Bit VSS	5.93	6.73	7.000	4.330
1	ATC_MWD	14275758	Gamma (single)	2.76	12.89	7.000	3.250
1	ATC_MWD	14275758	Directional (mag)	12.27	22.40	7.000	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
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

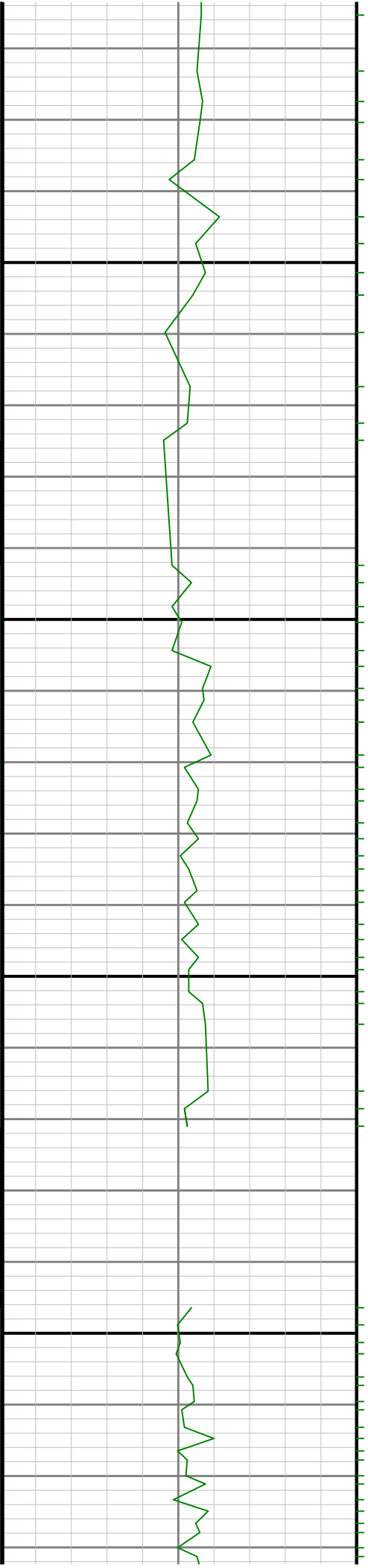
<div><div>BAKER HUGHES</div><div>a GE company</div></div> <div></div>	Company	Anadarko				
	Well	Cowboy 21-4HZ				
	Interval	Date From:	2018-09-27 22:00	Top:	1891.00 ft	
		Date To:	2018-09-30 04:48	Bottom:	15547.05 ft	
	Created	2018-09-30 04:52:07				

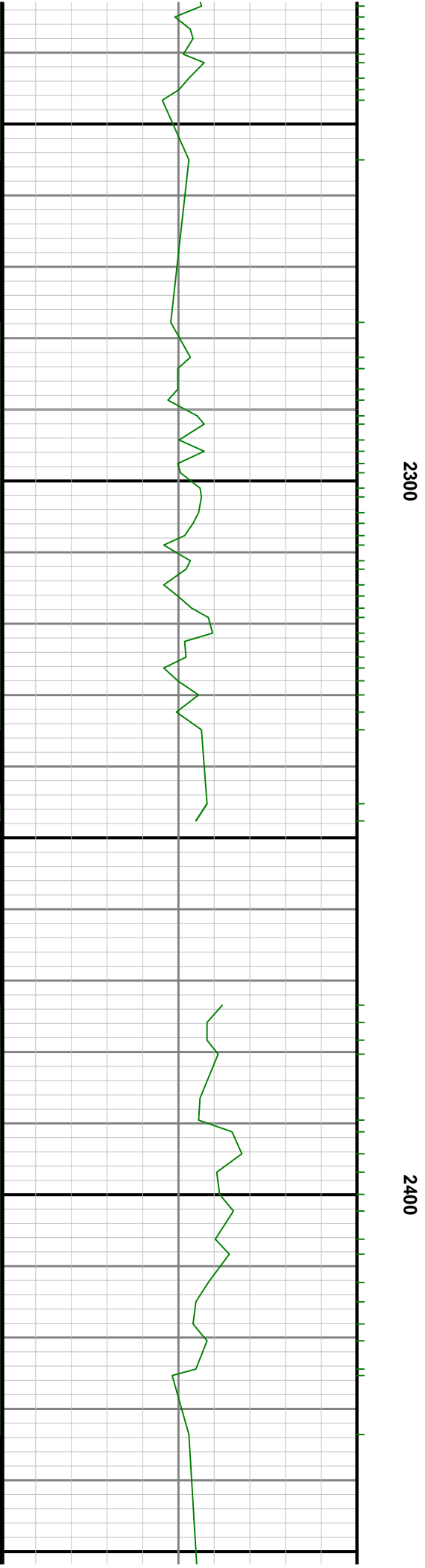


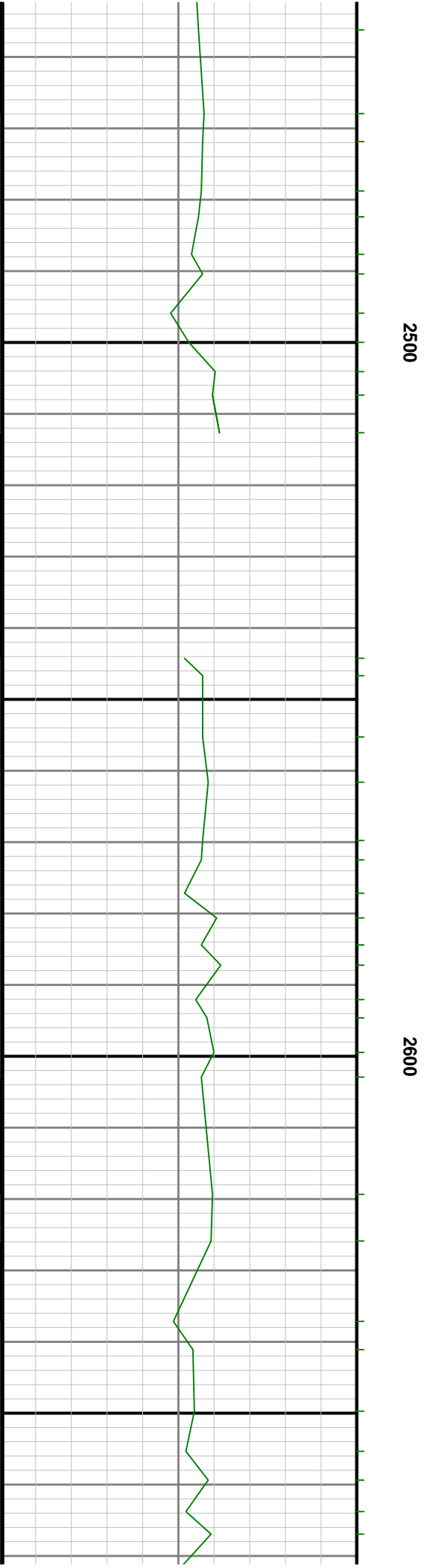
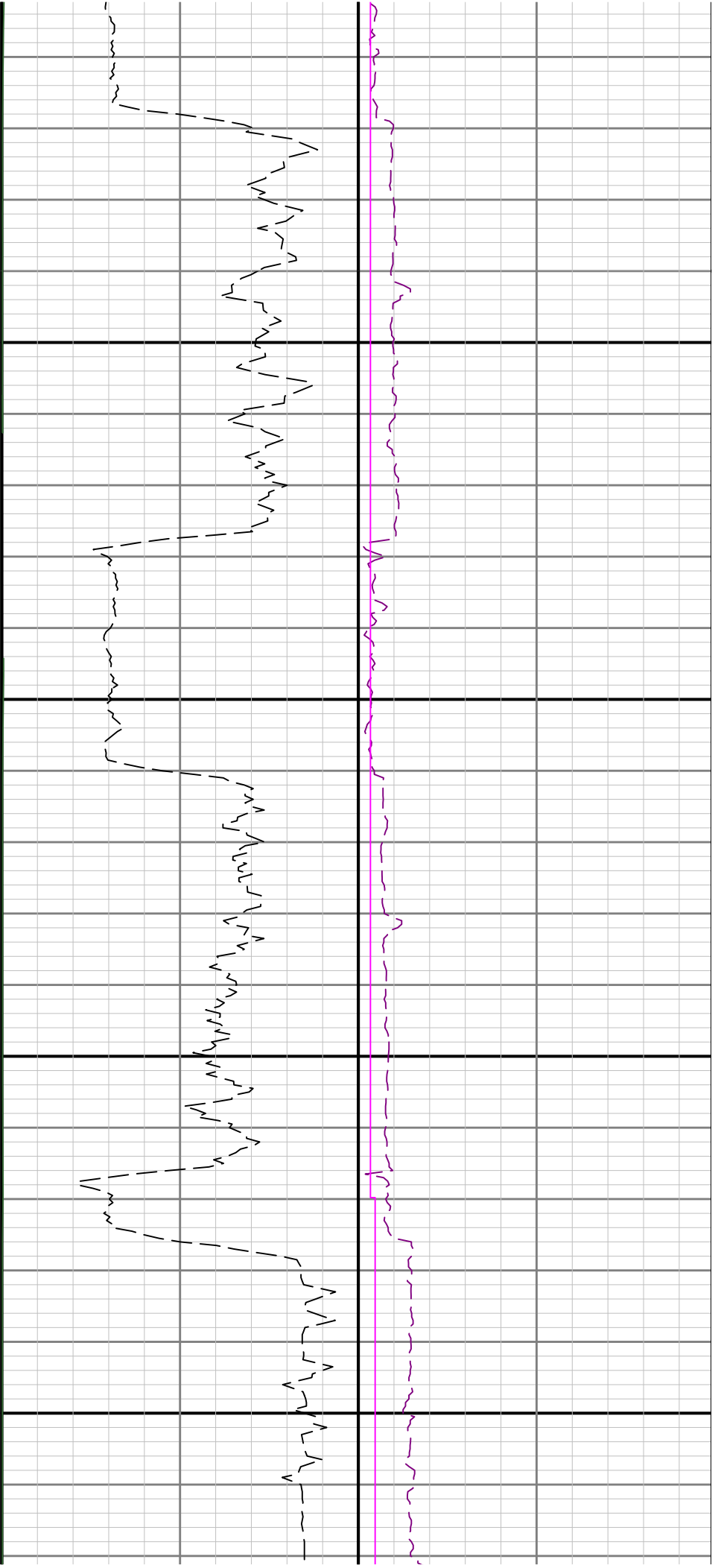


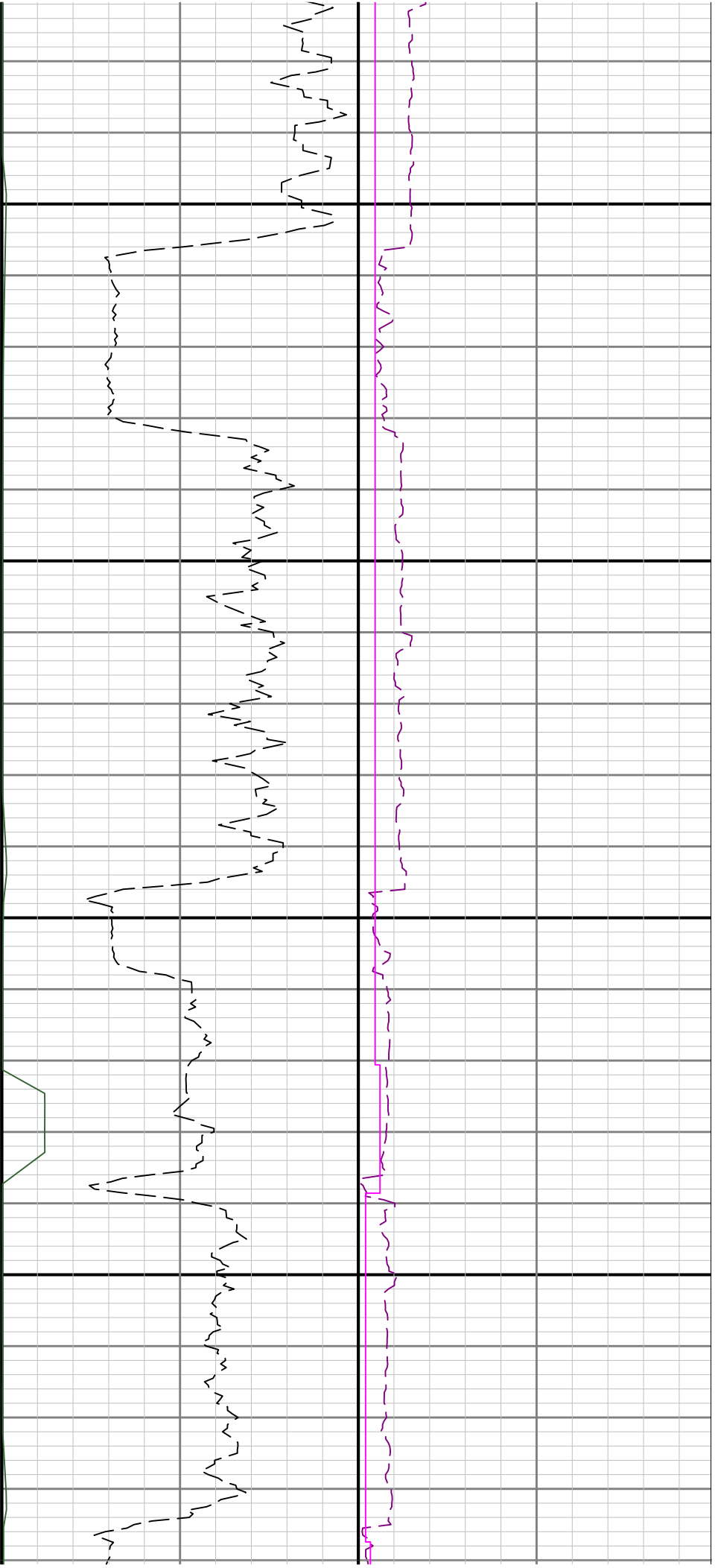
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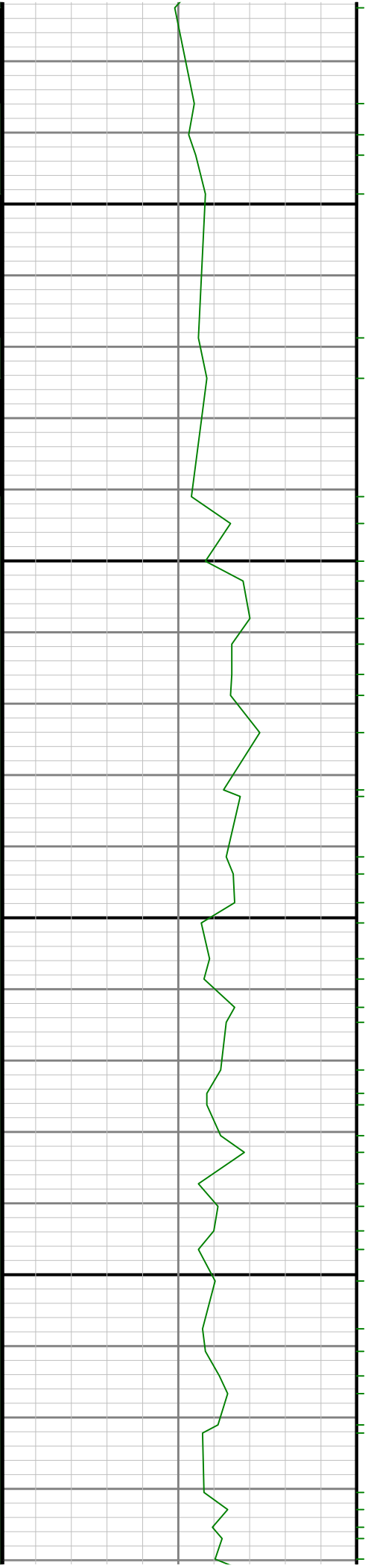


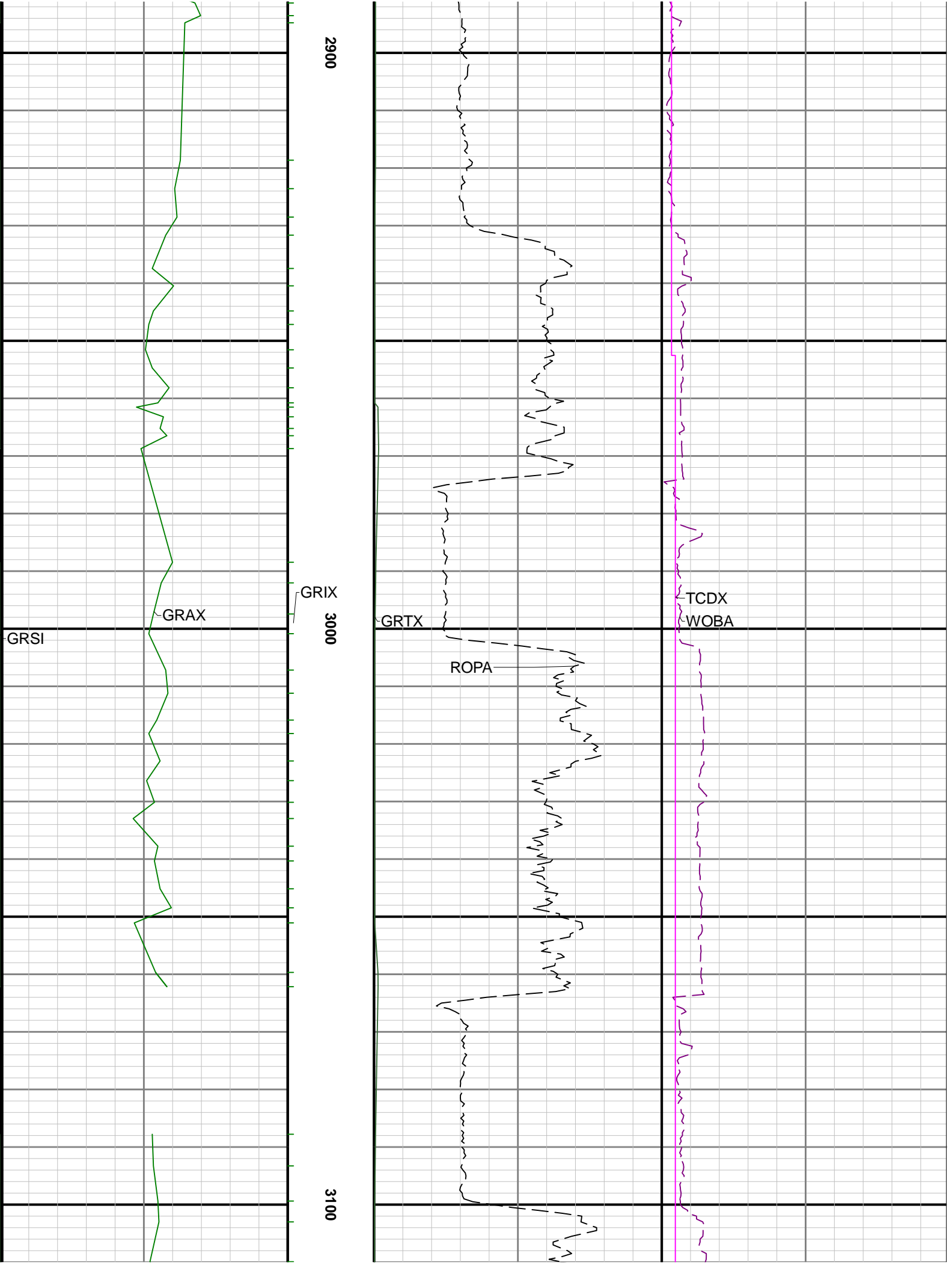


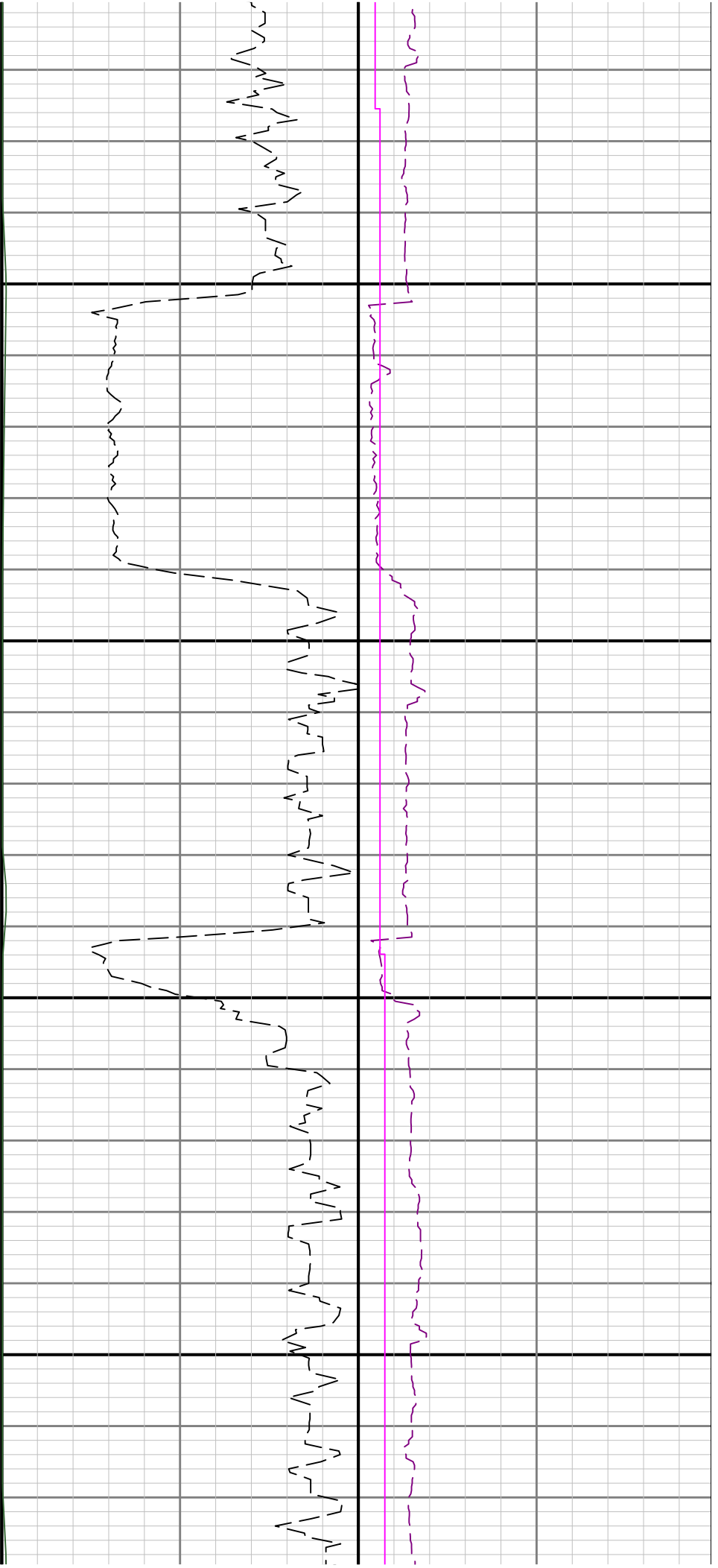


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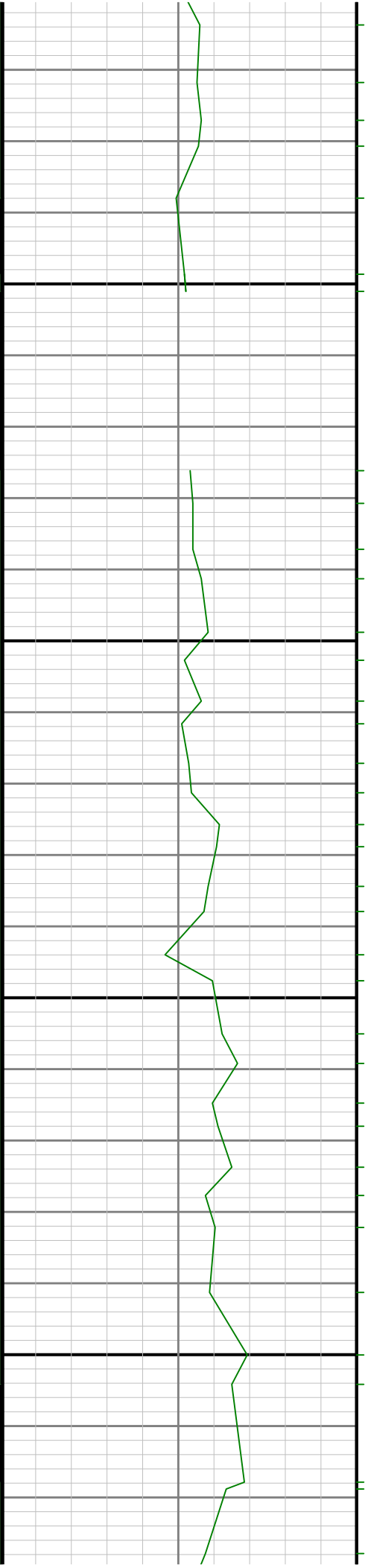


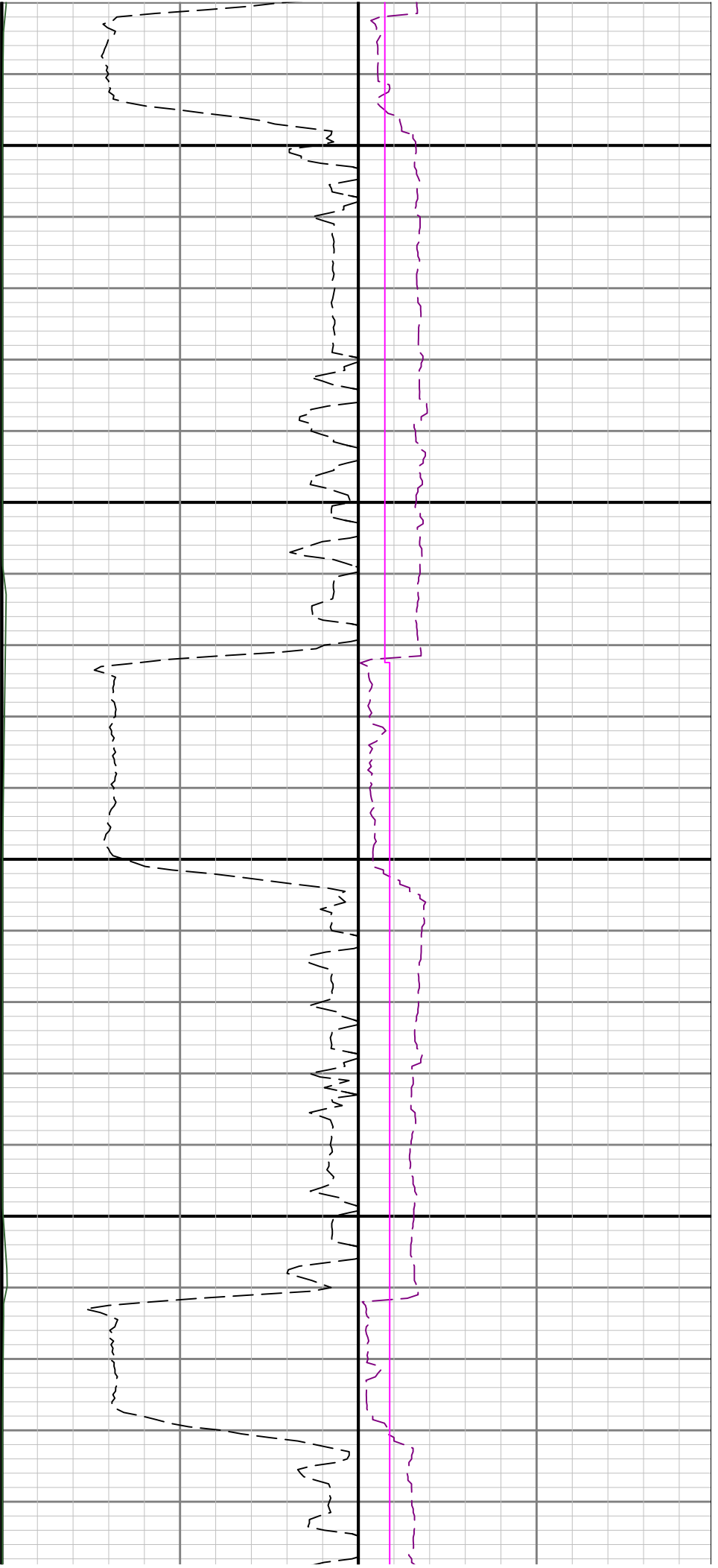




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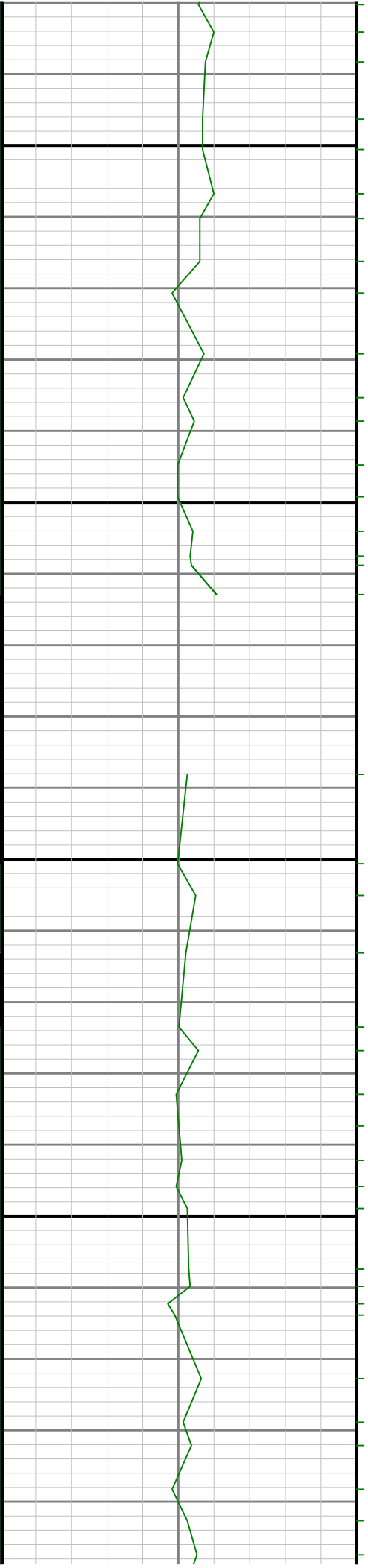
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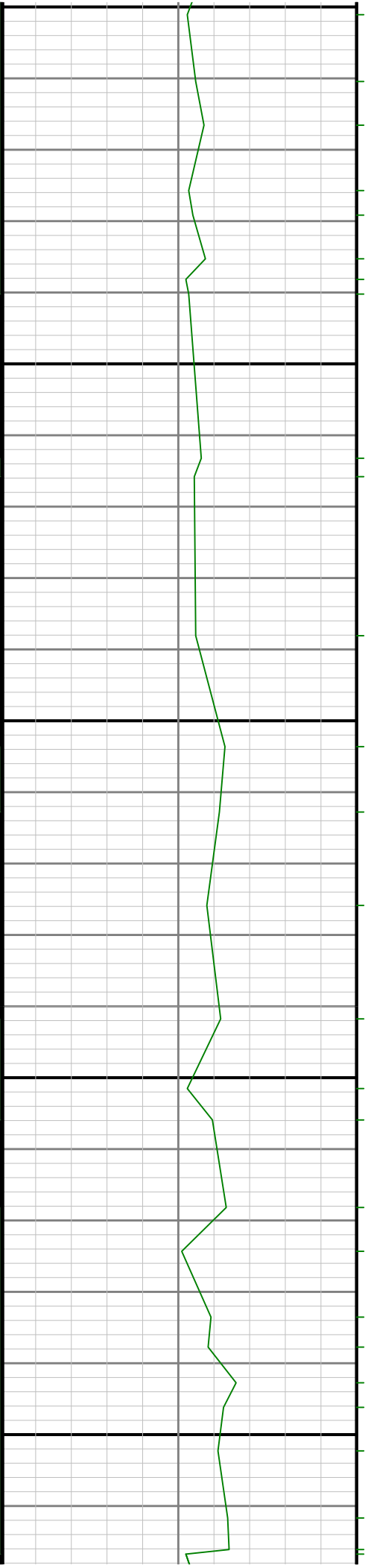
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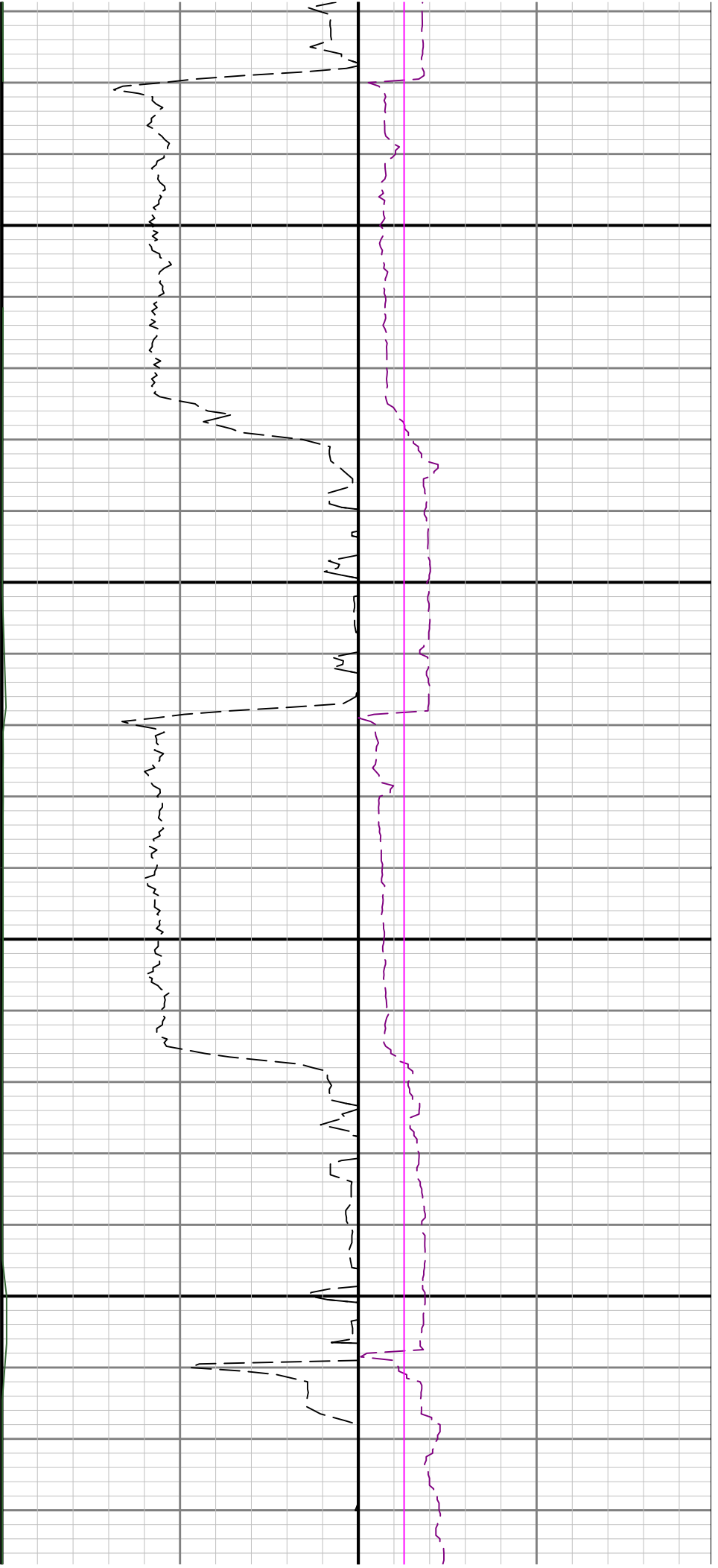




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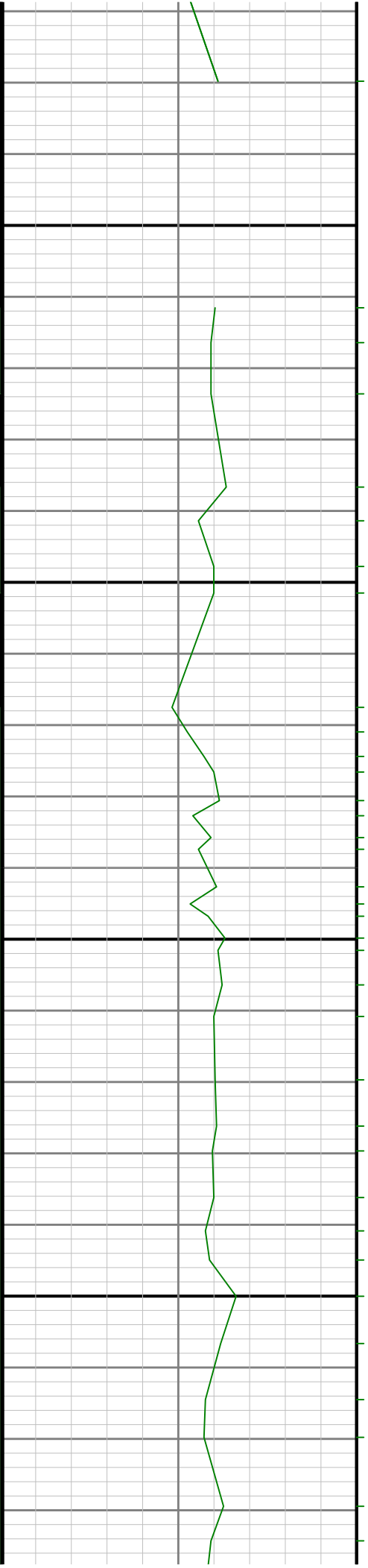
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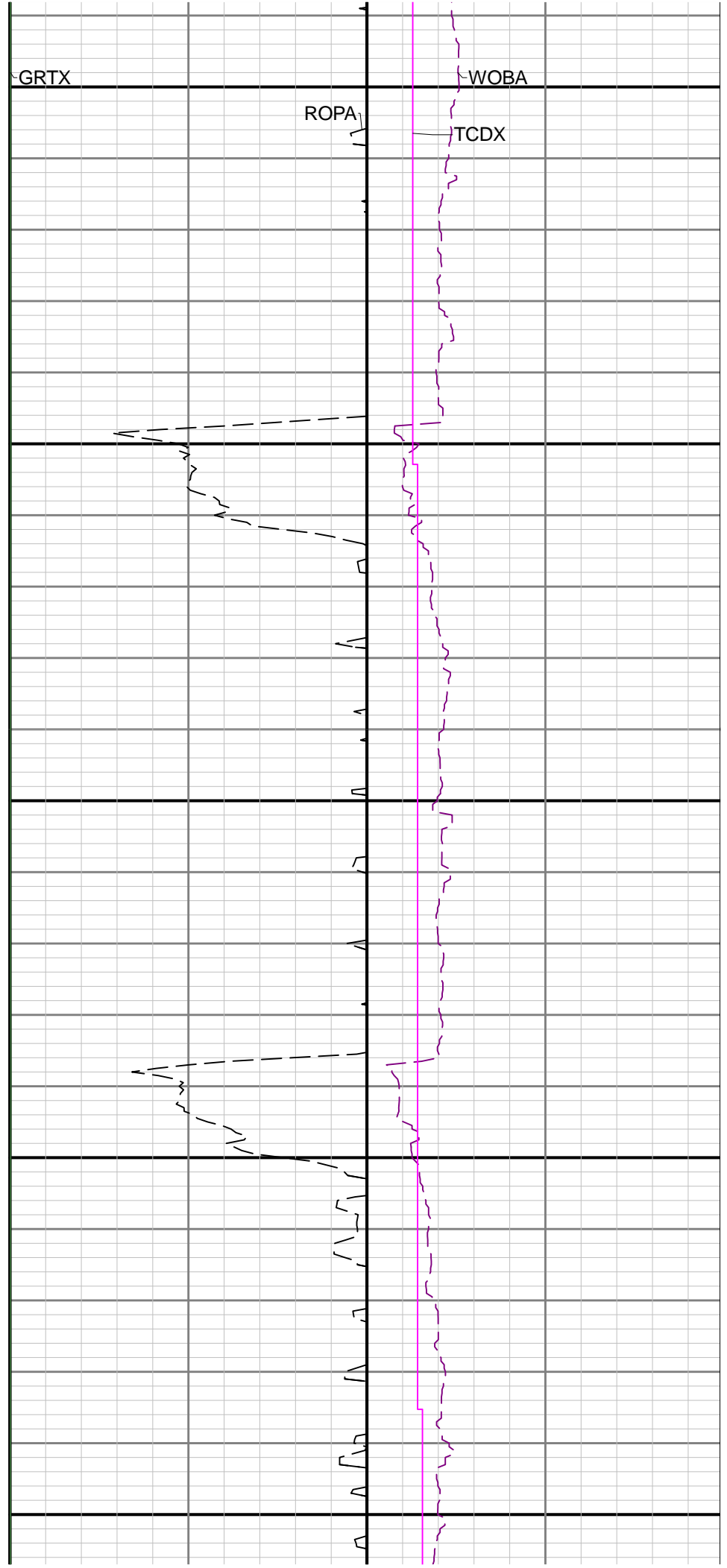
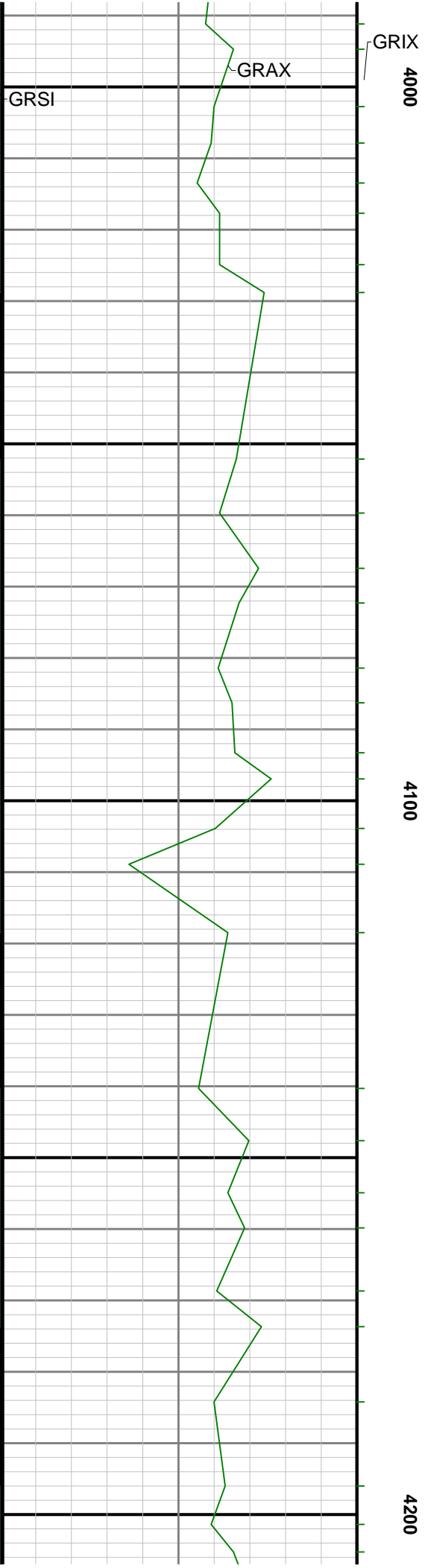


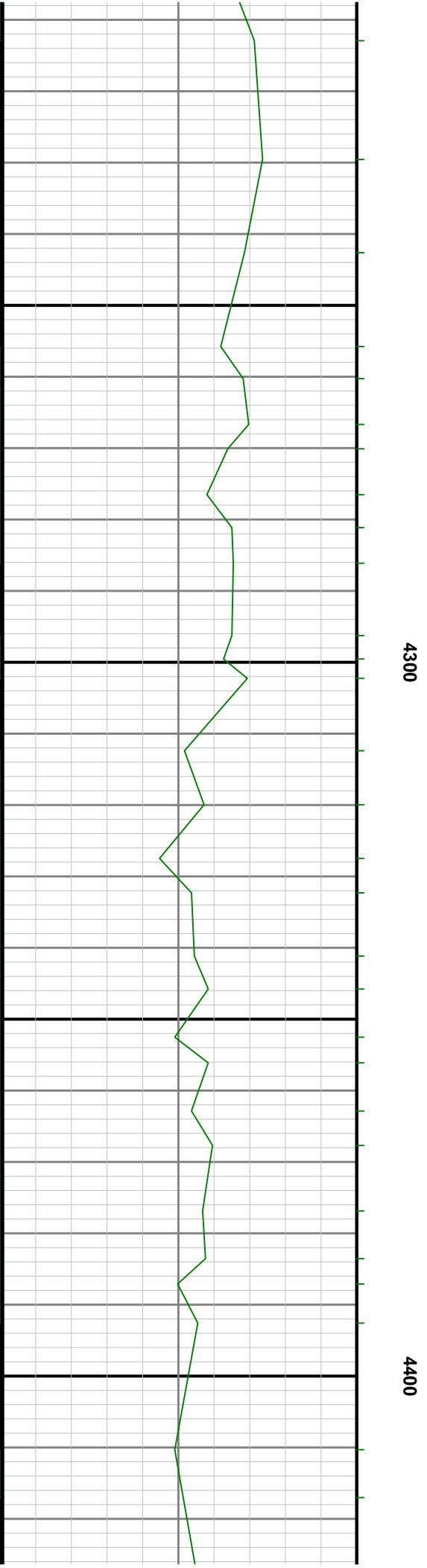
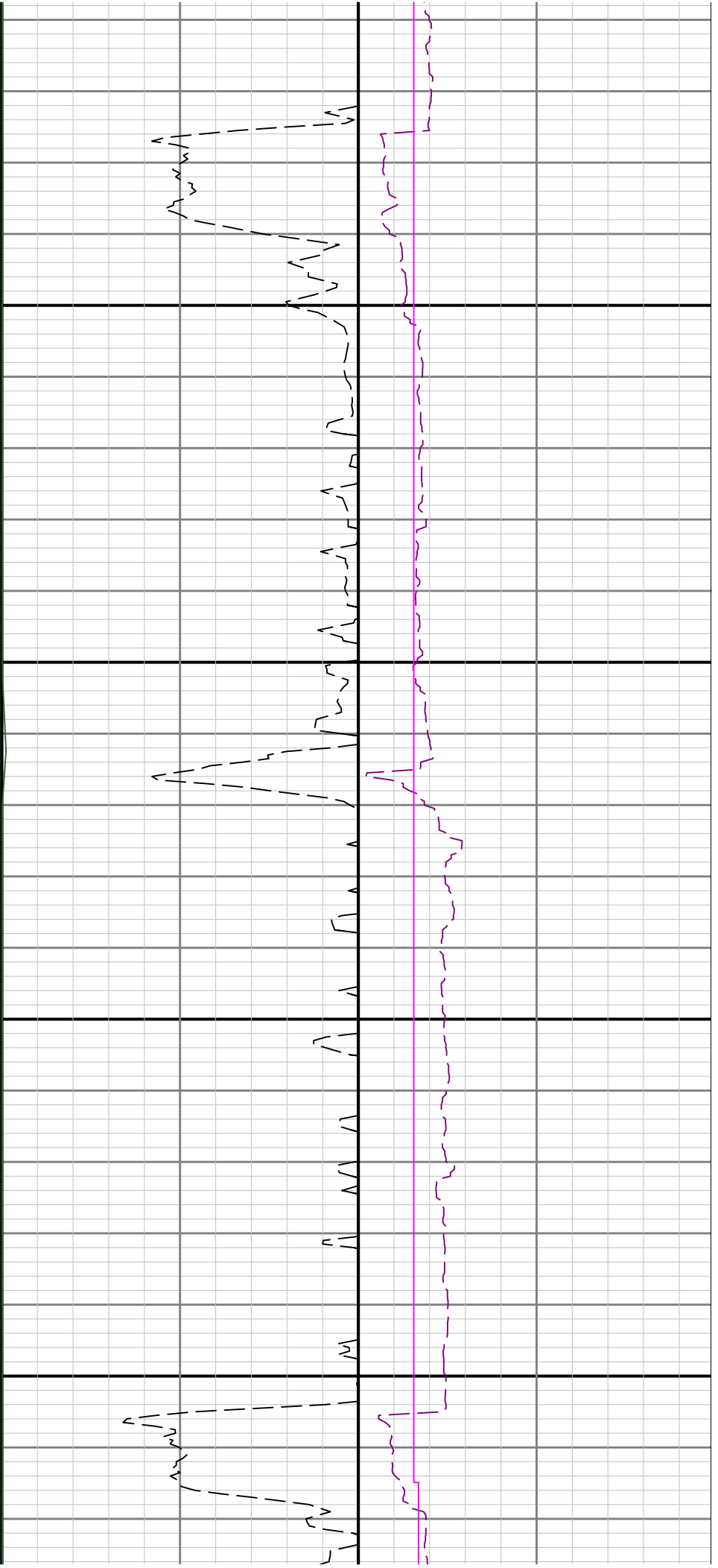


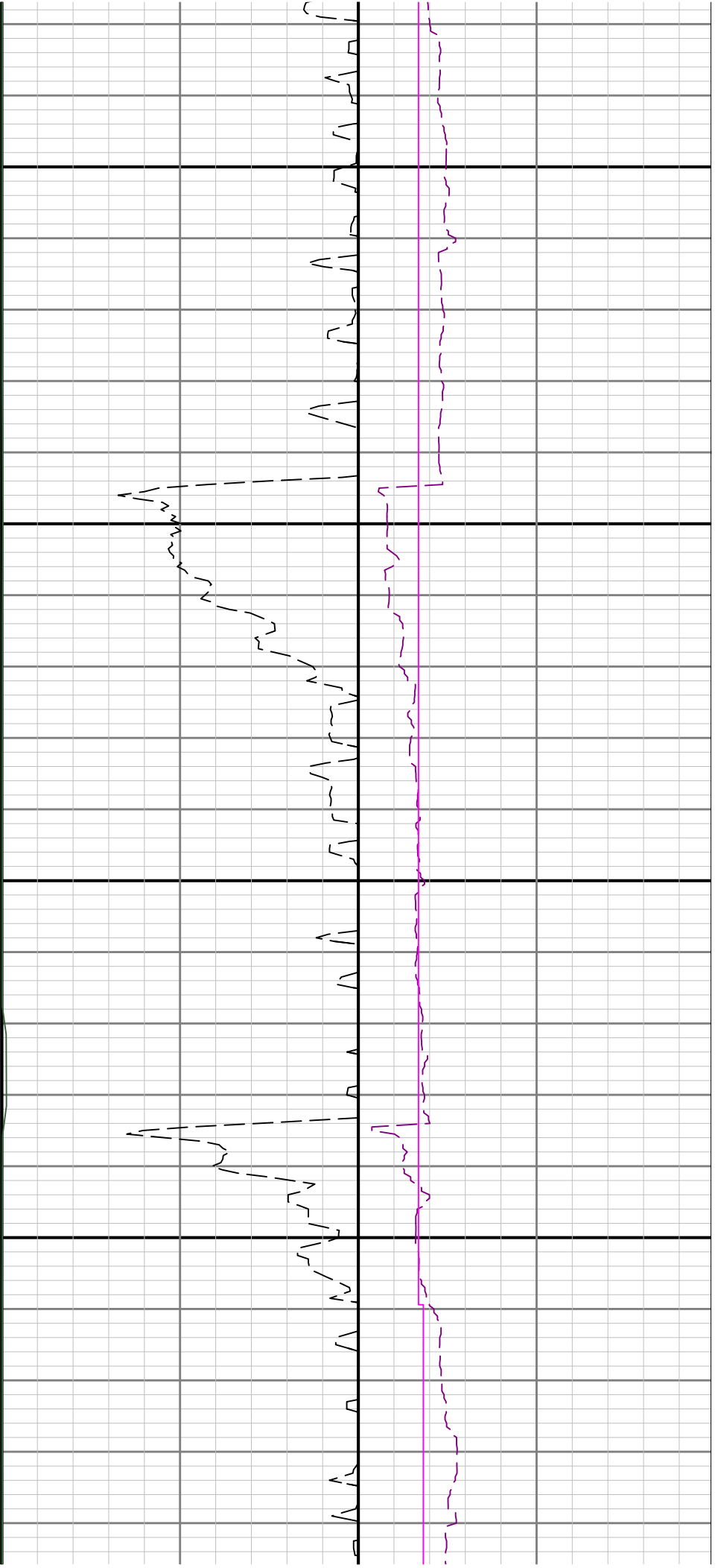
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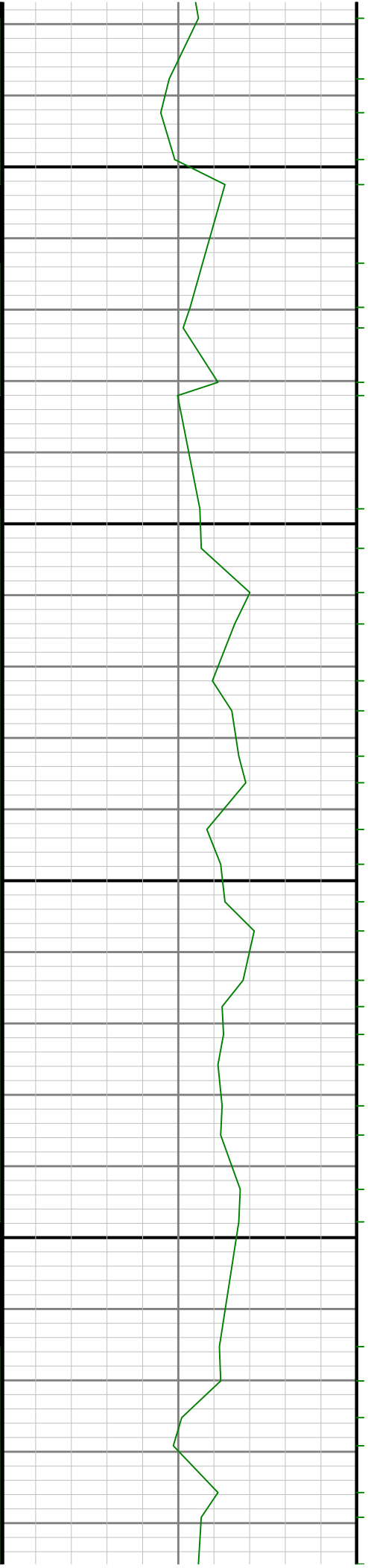


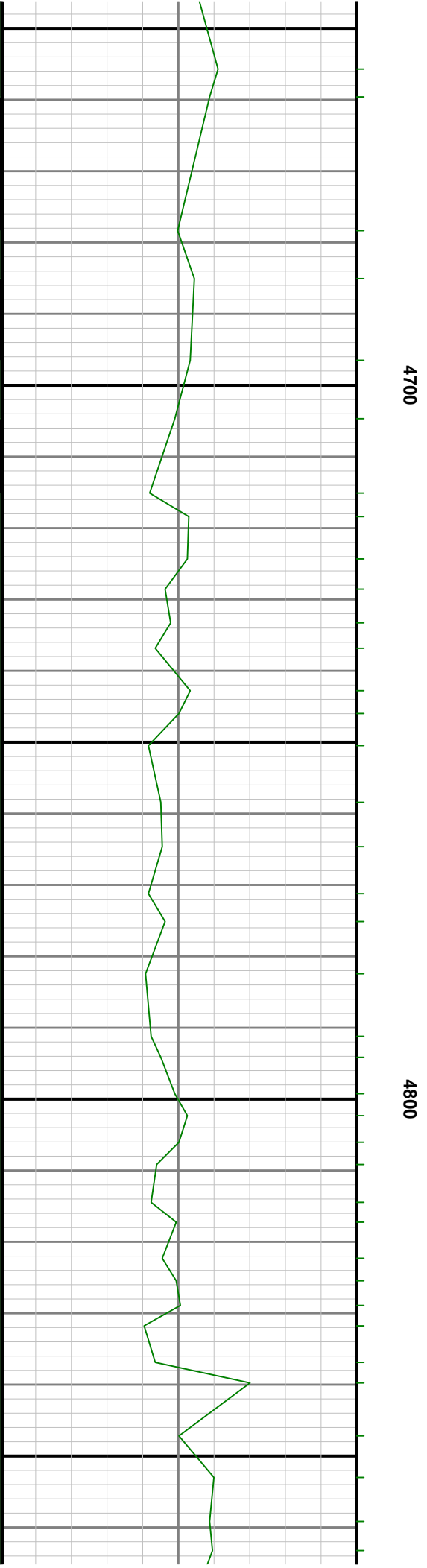
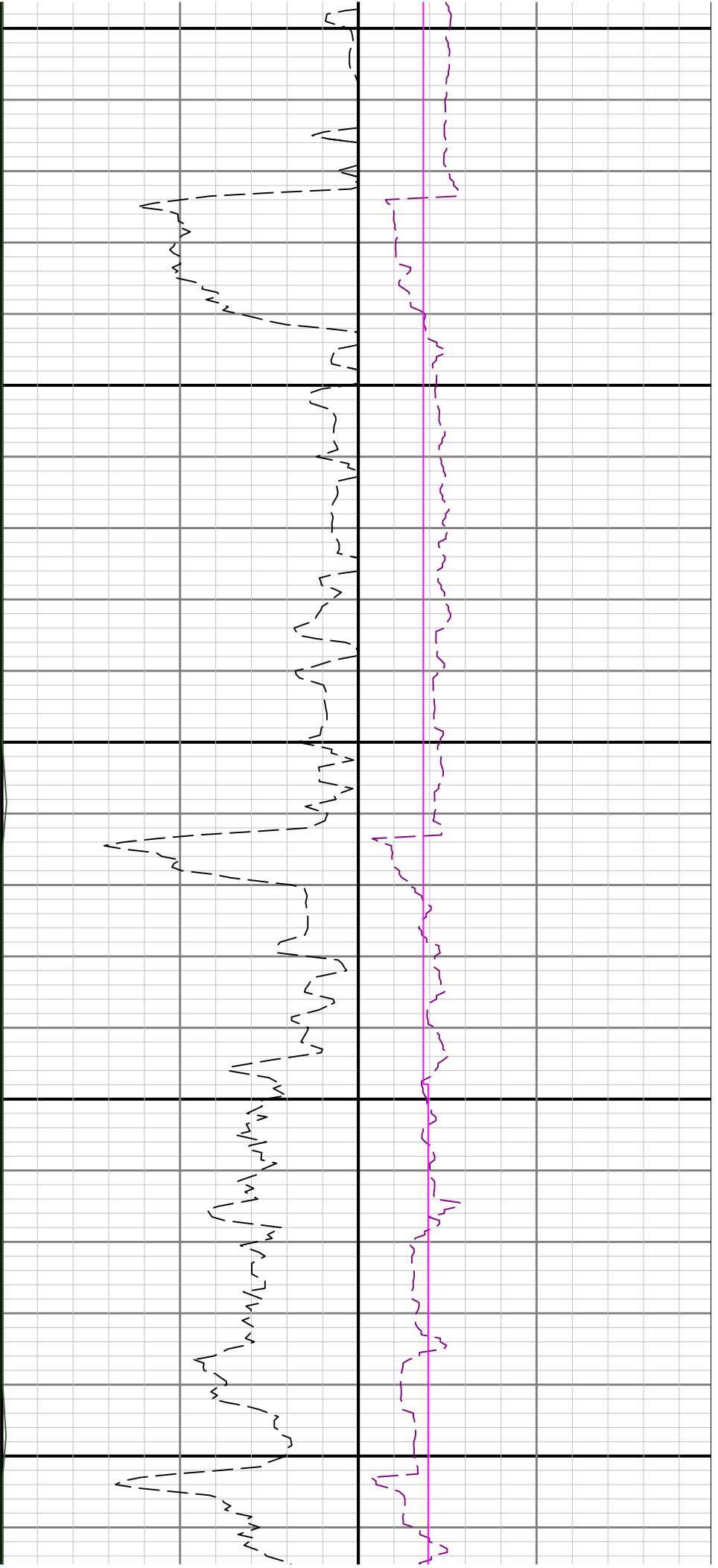


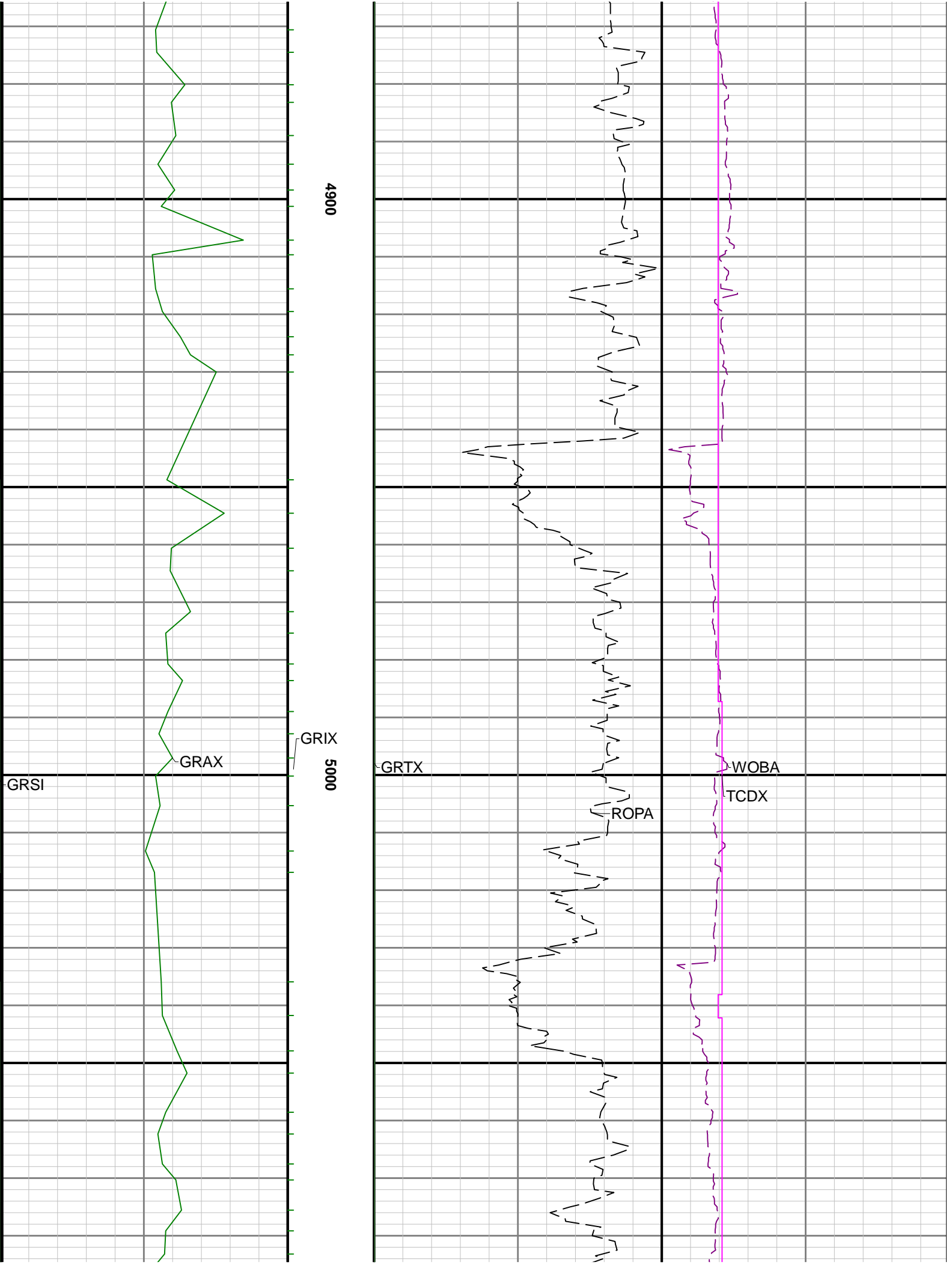


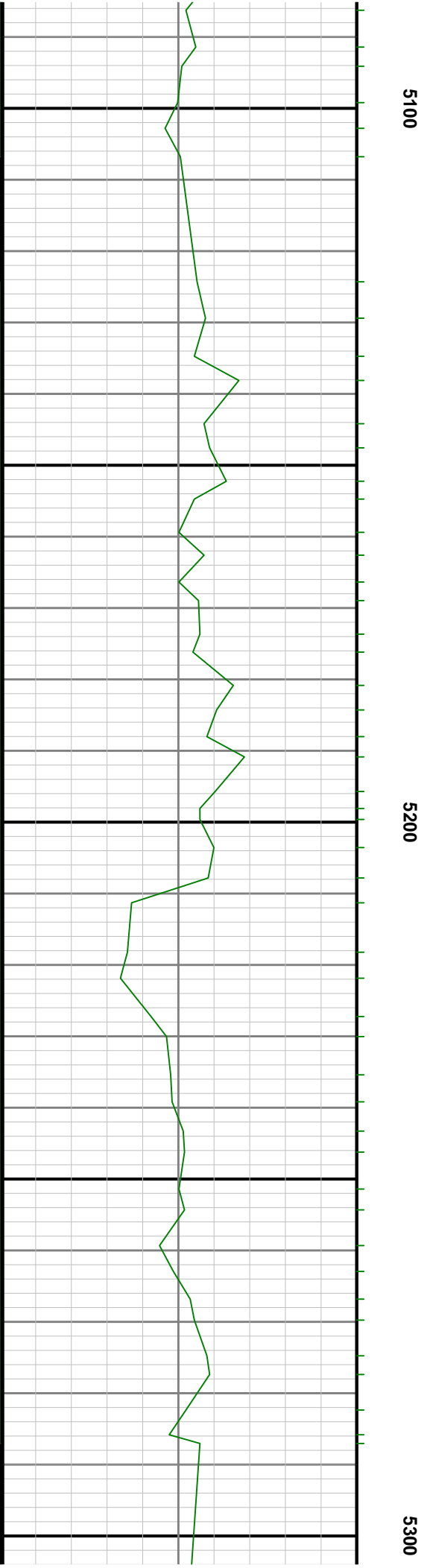
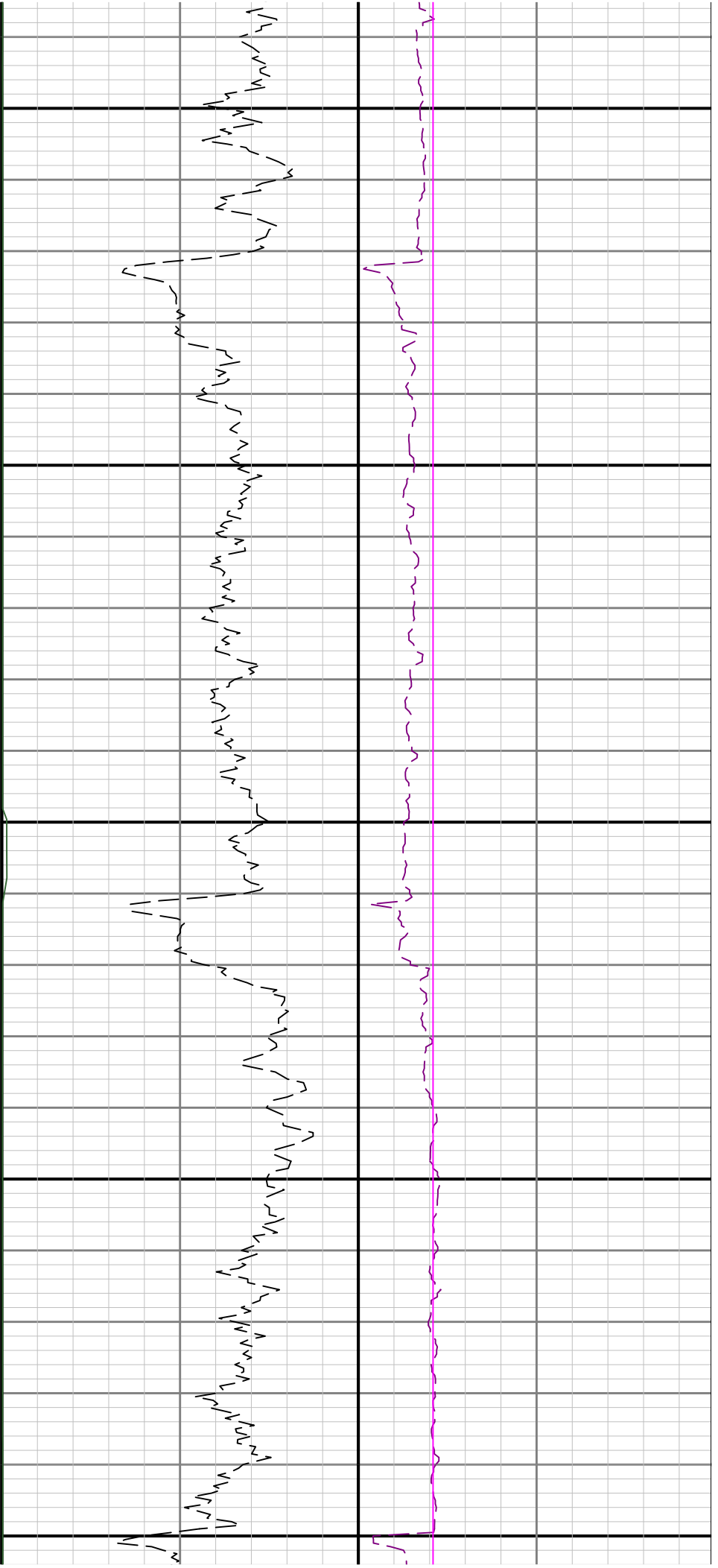
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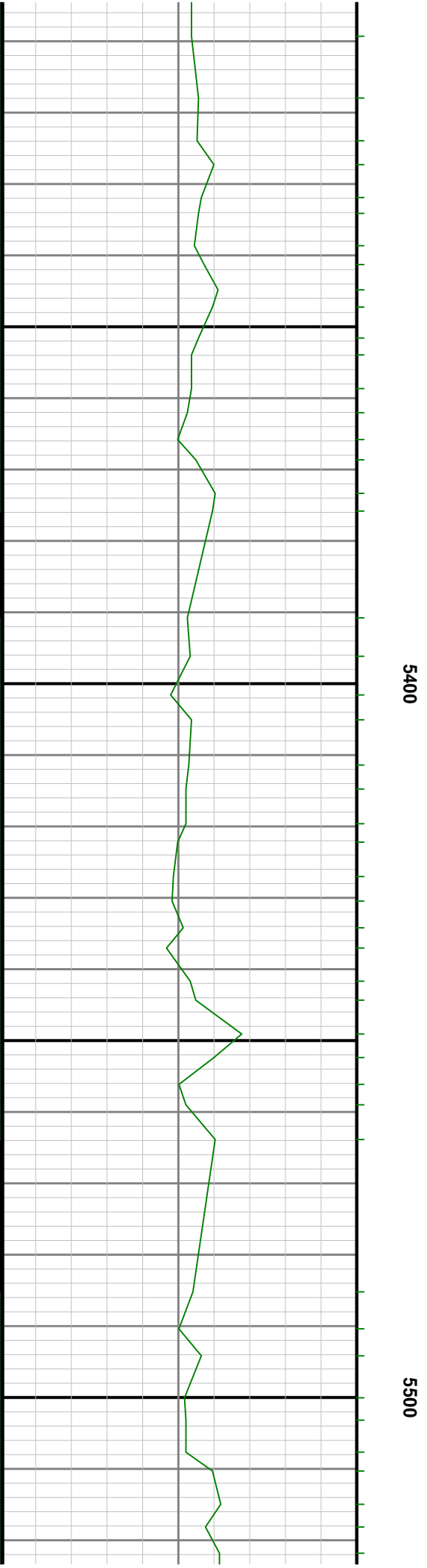
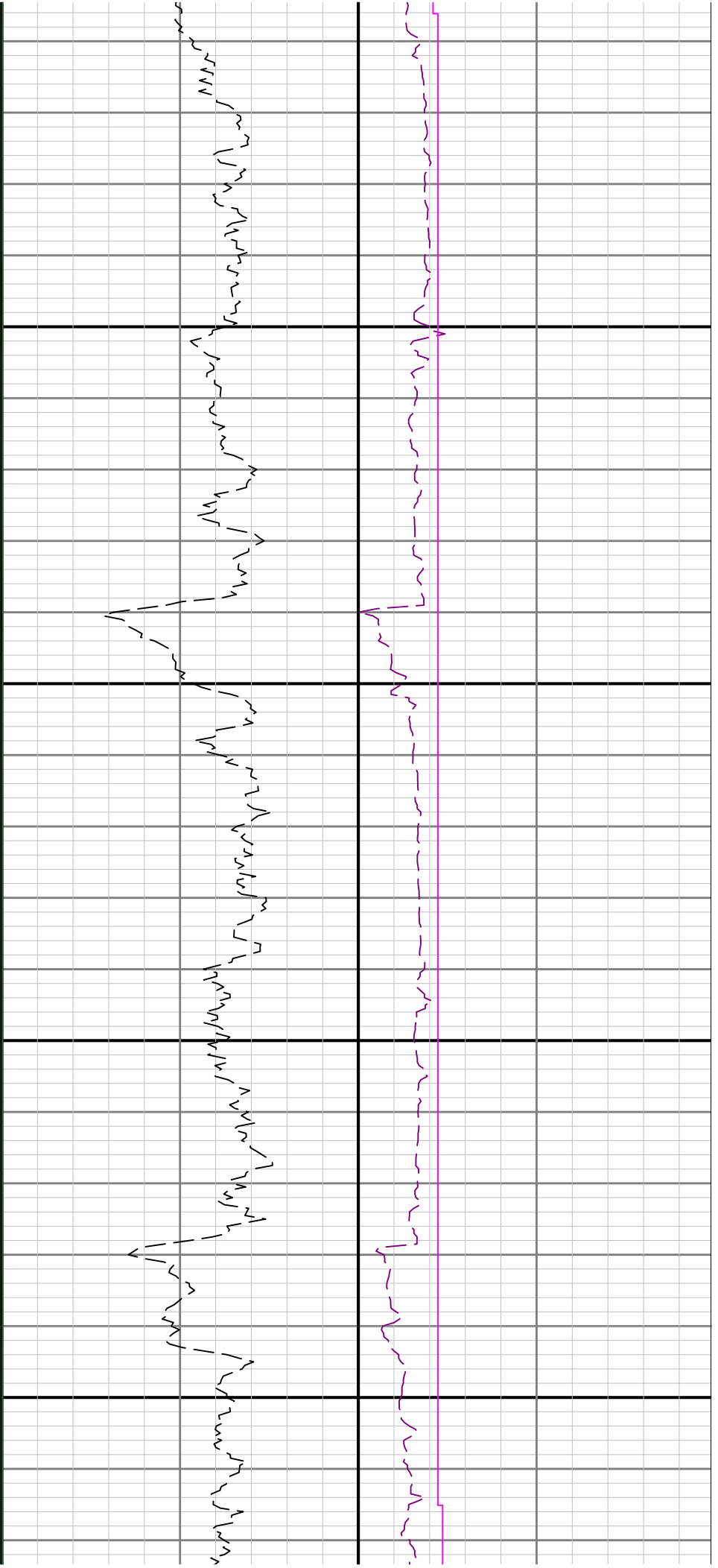
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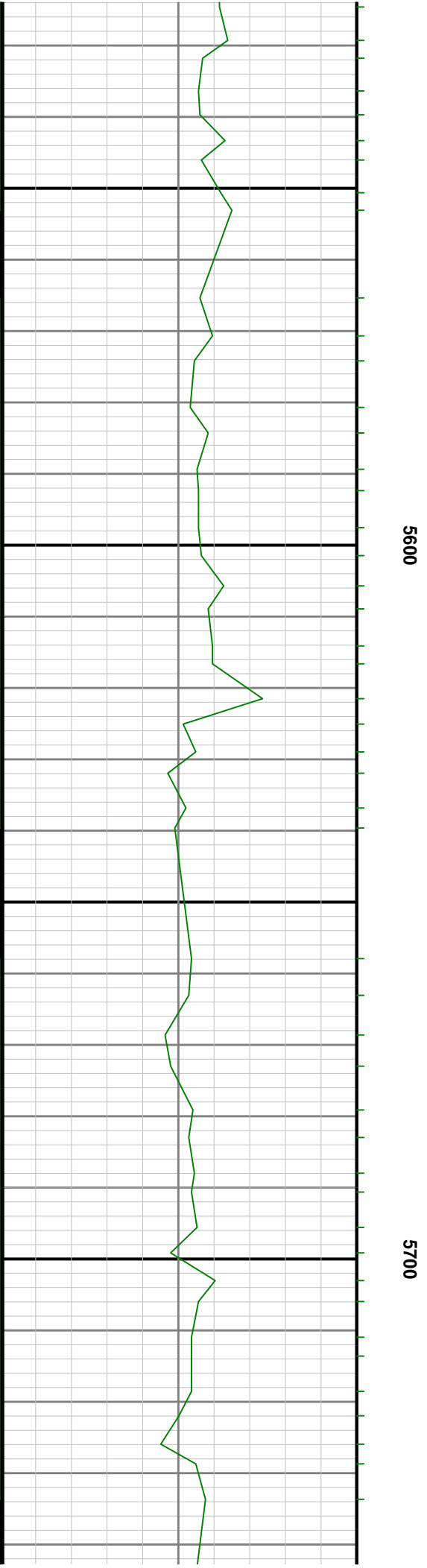
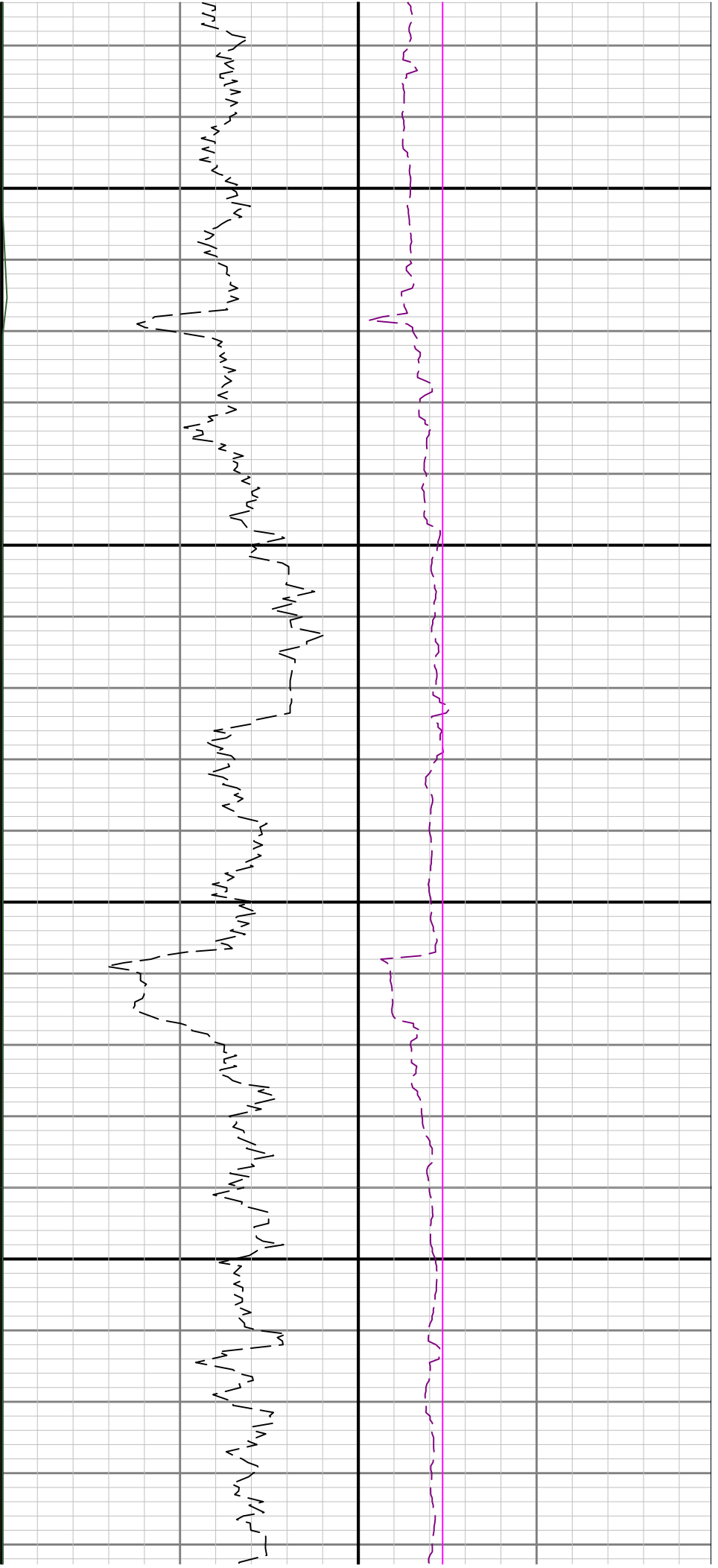


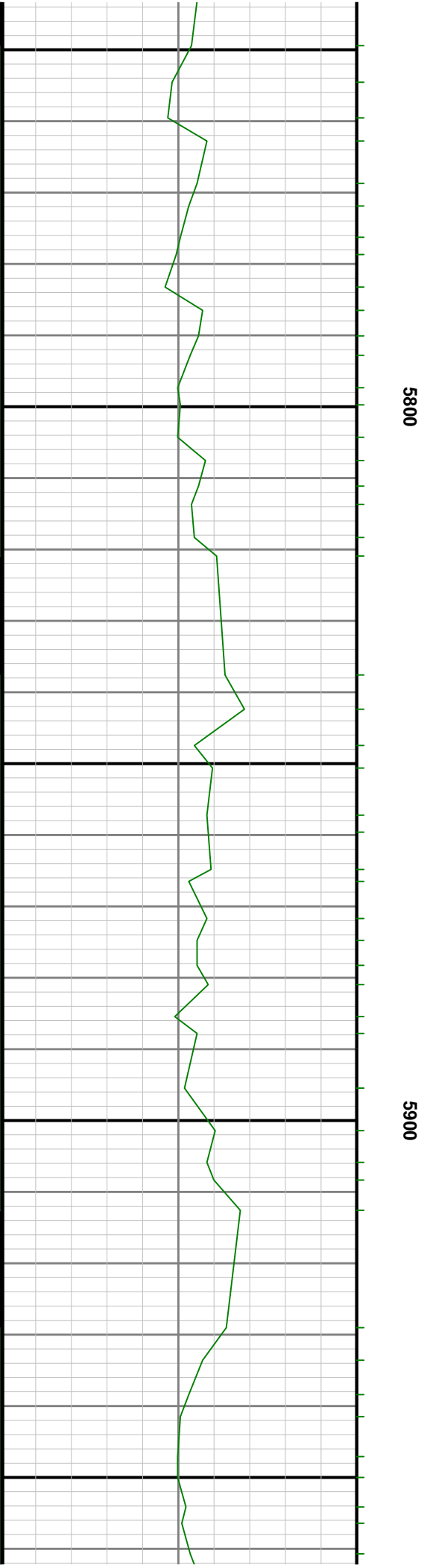
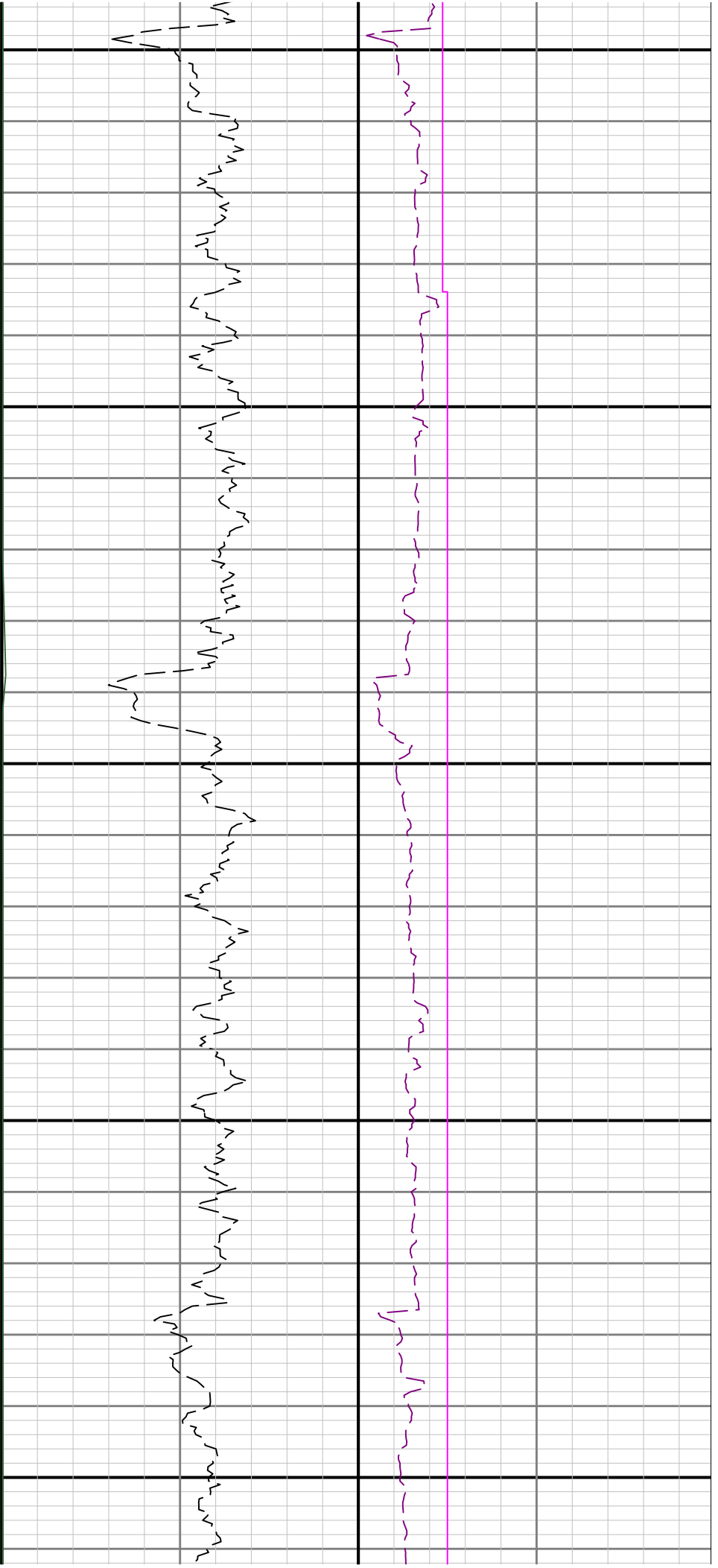


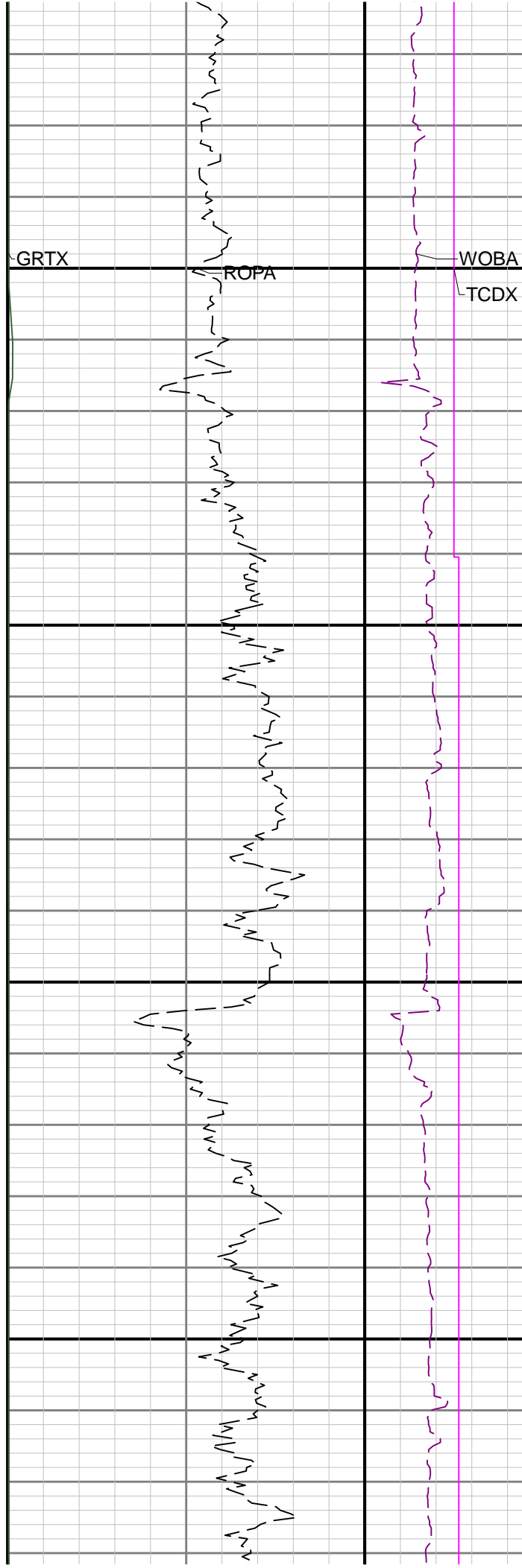
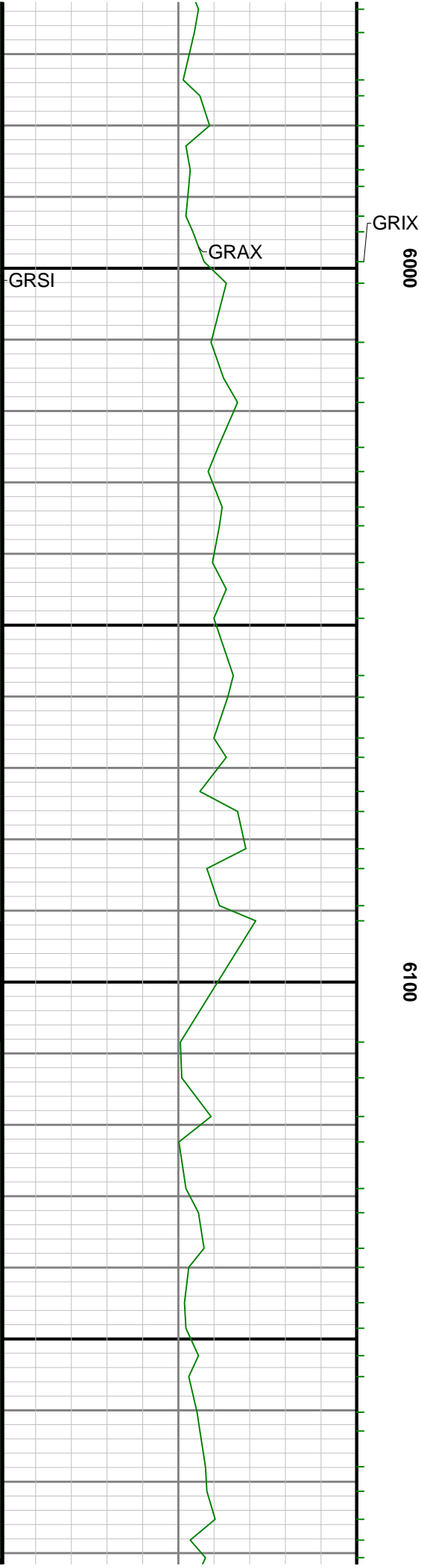


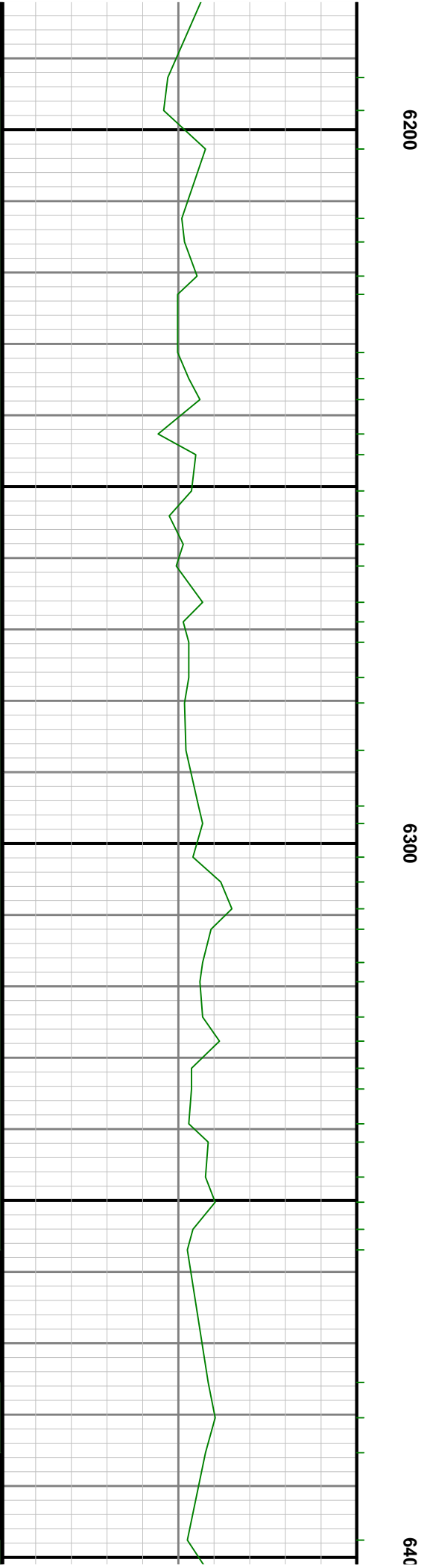
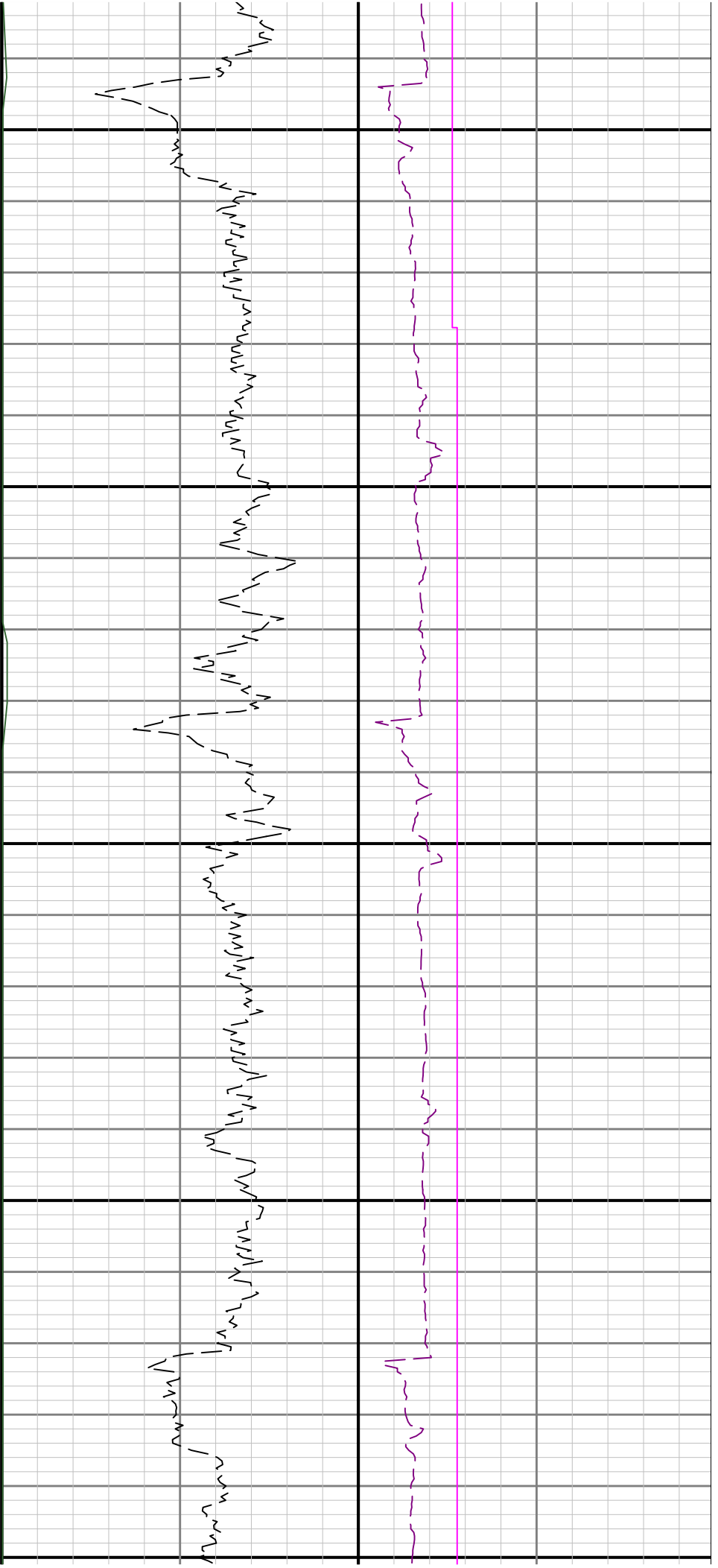


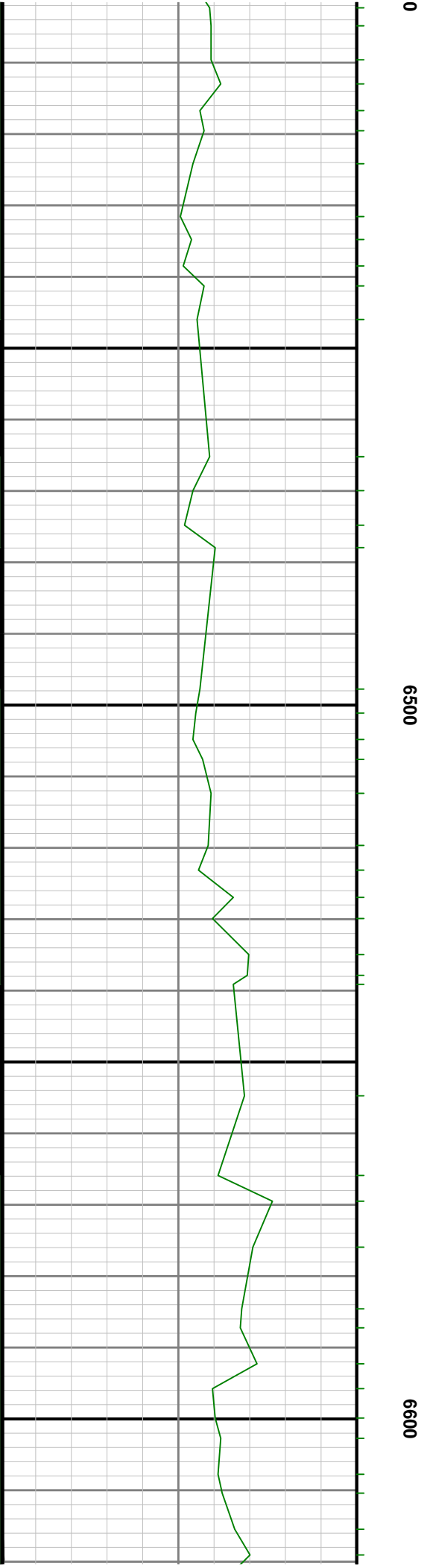
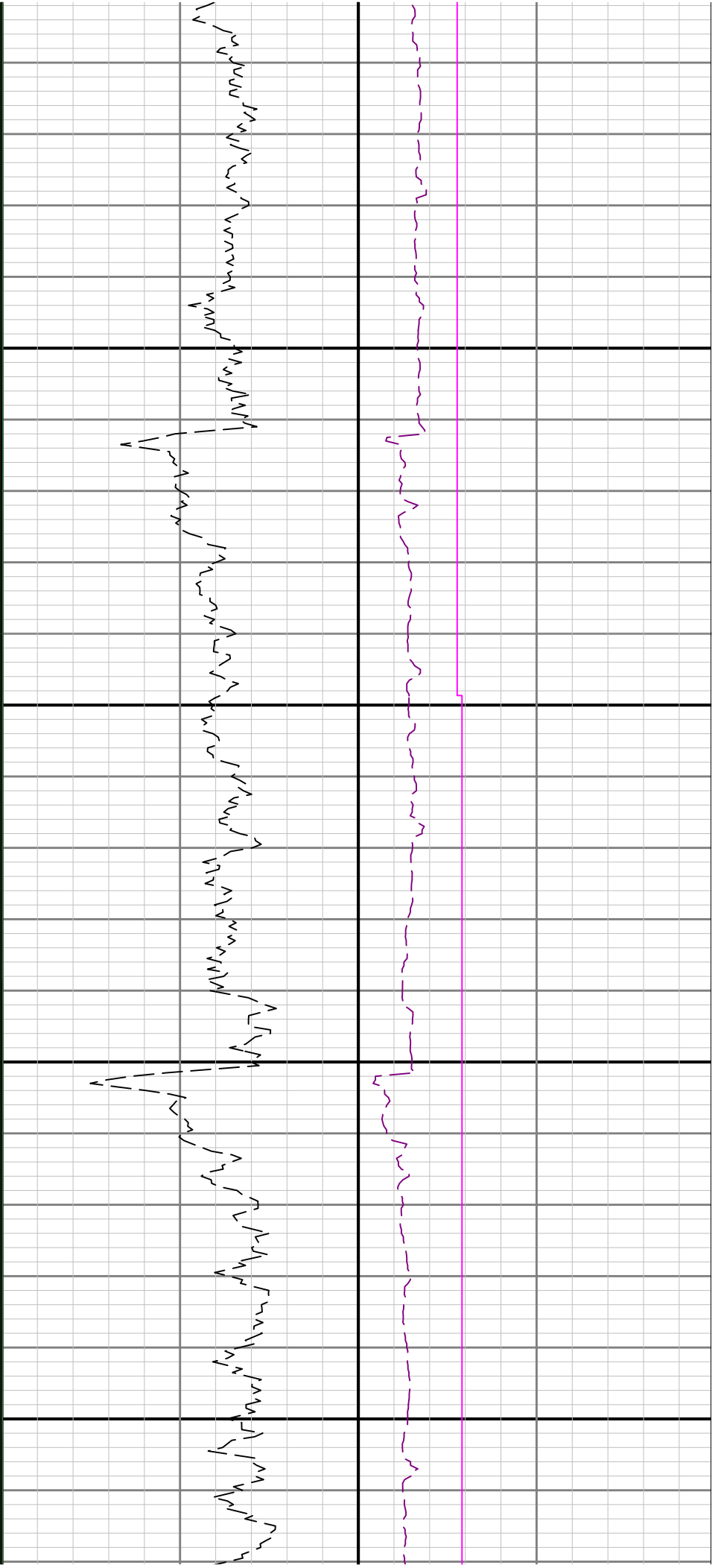


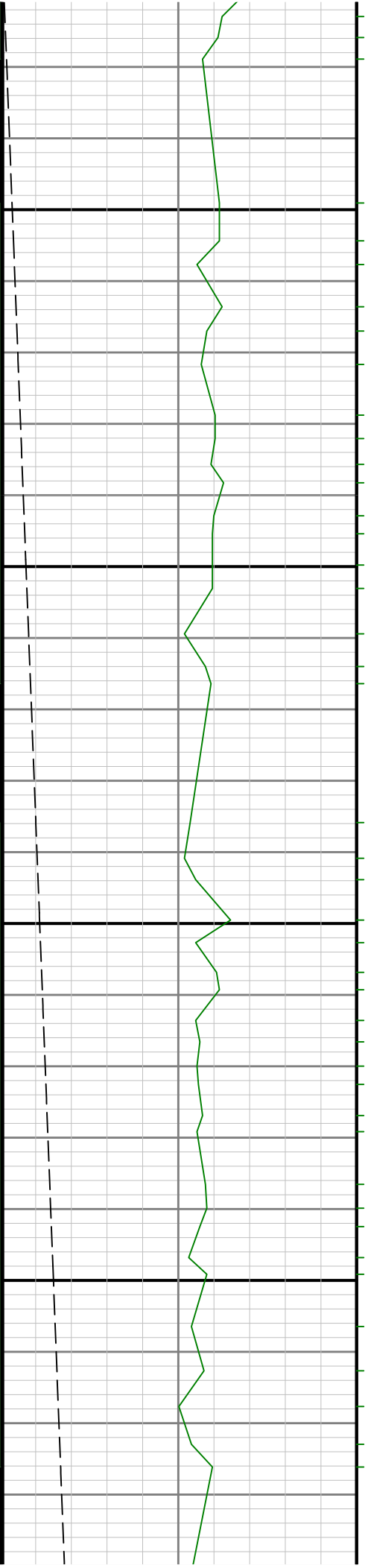






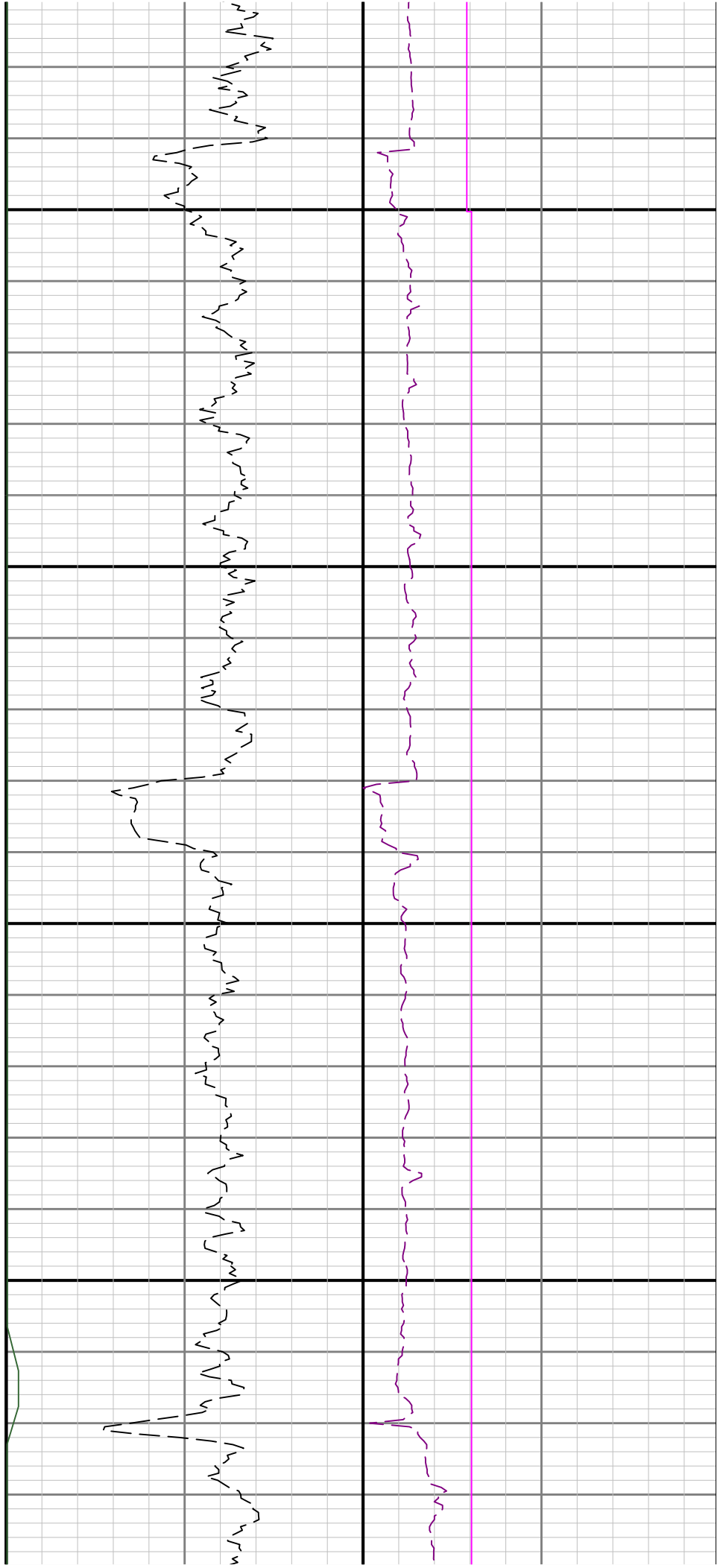


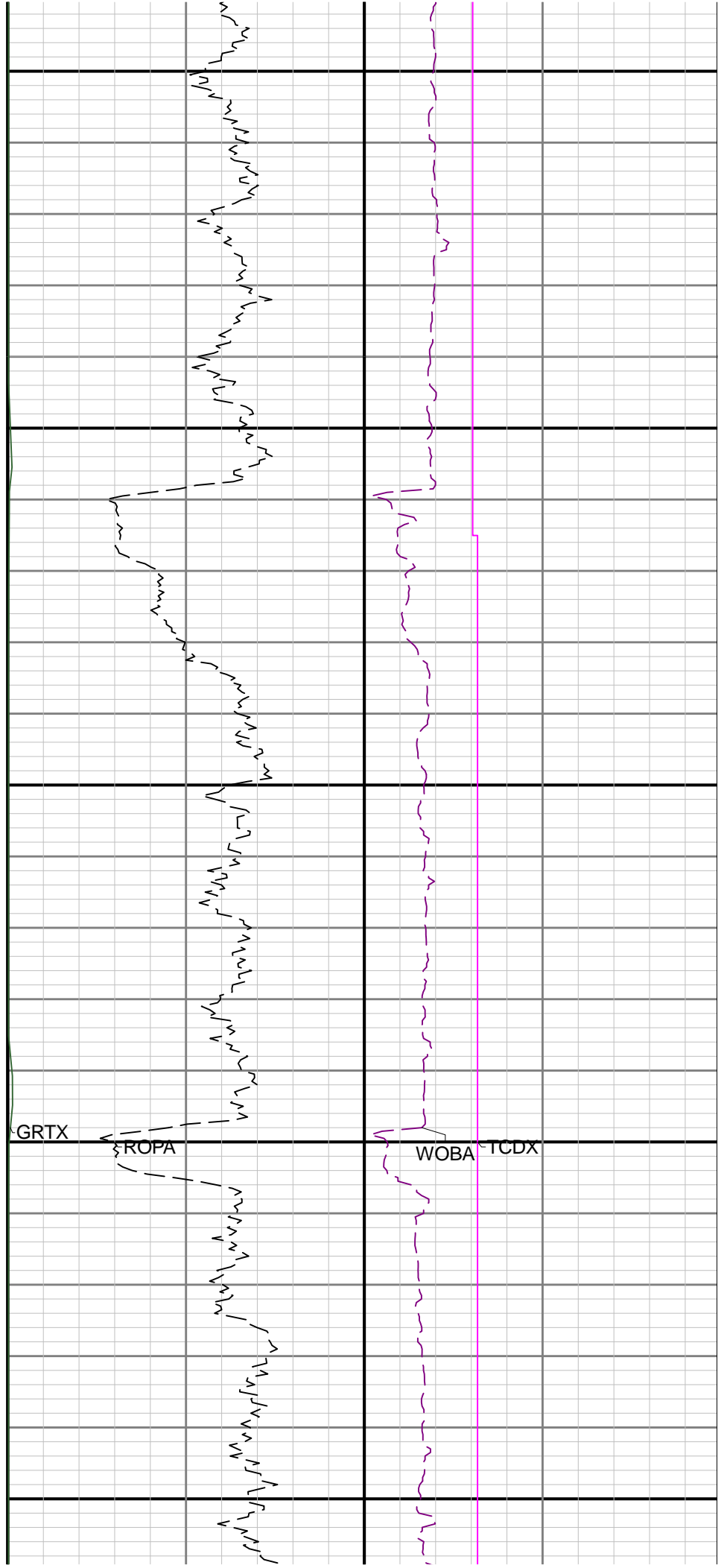
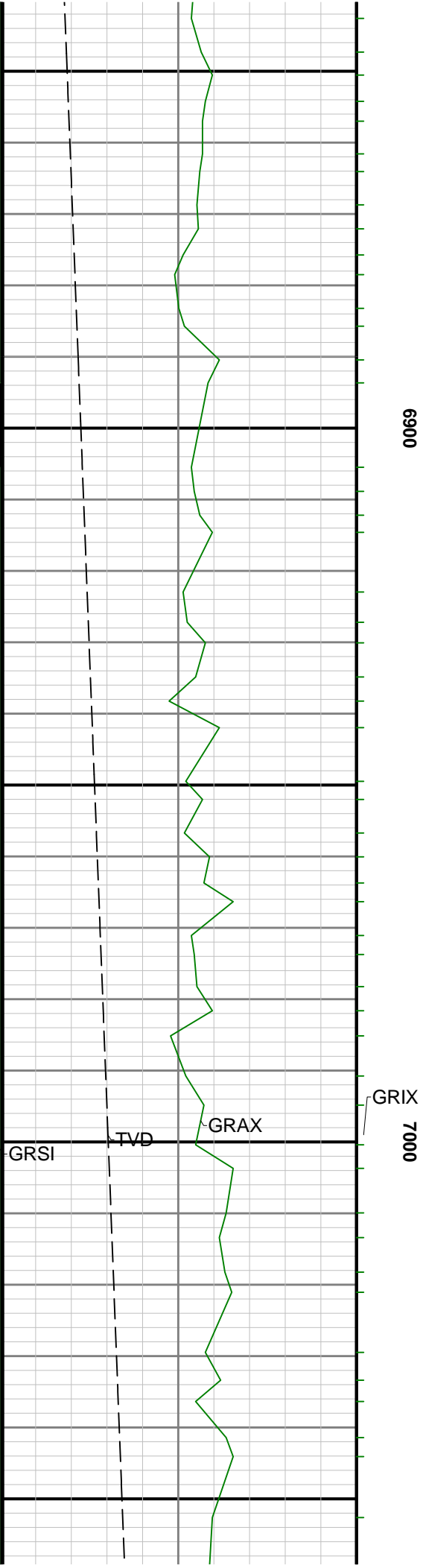


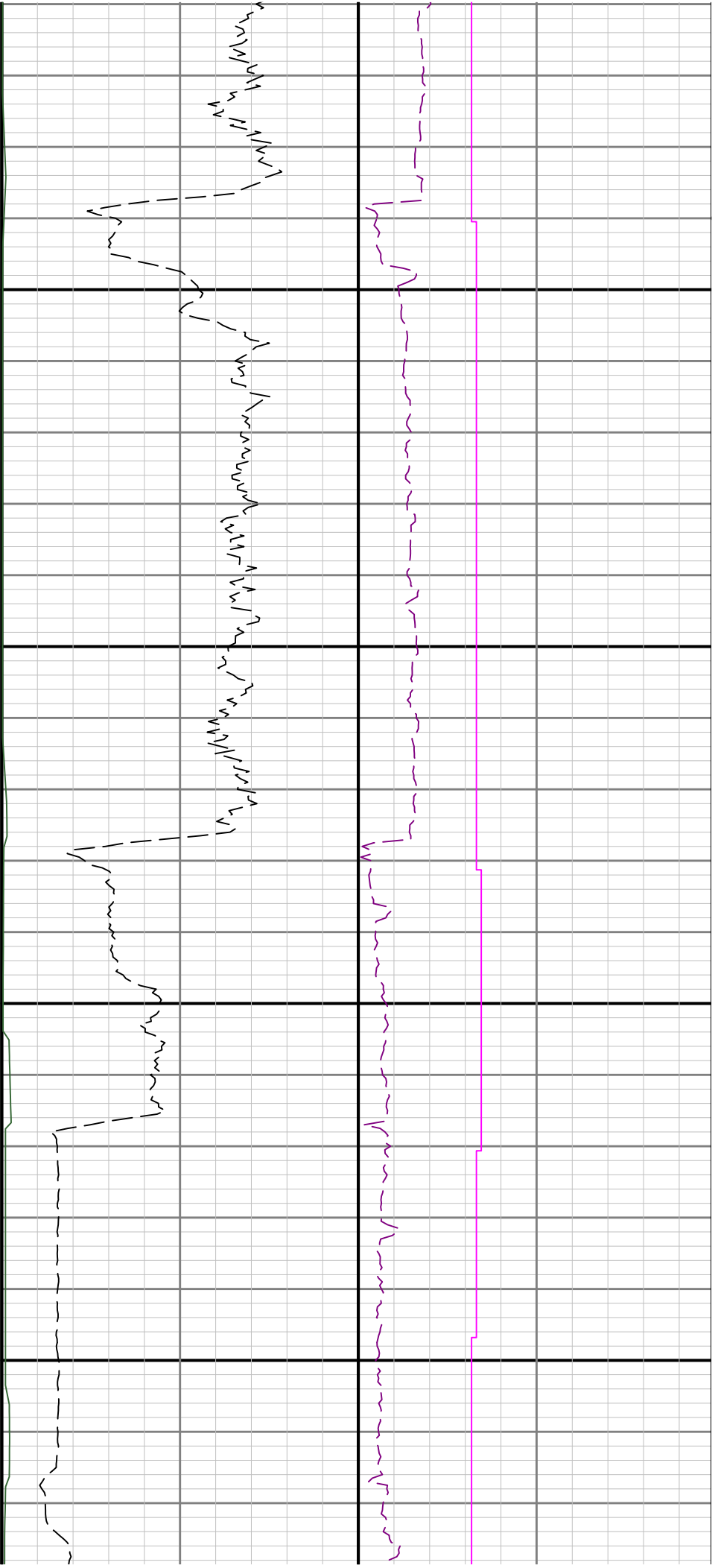


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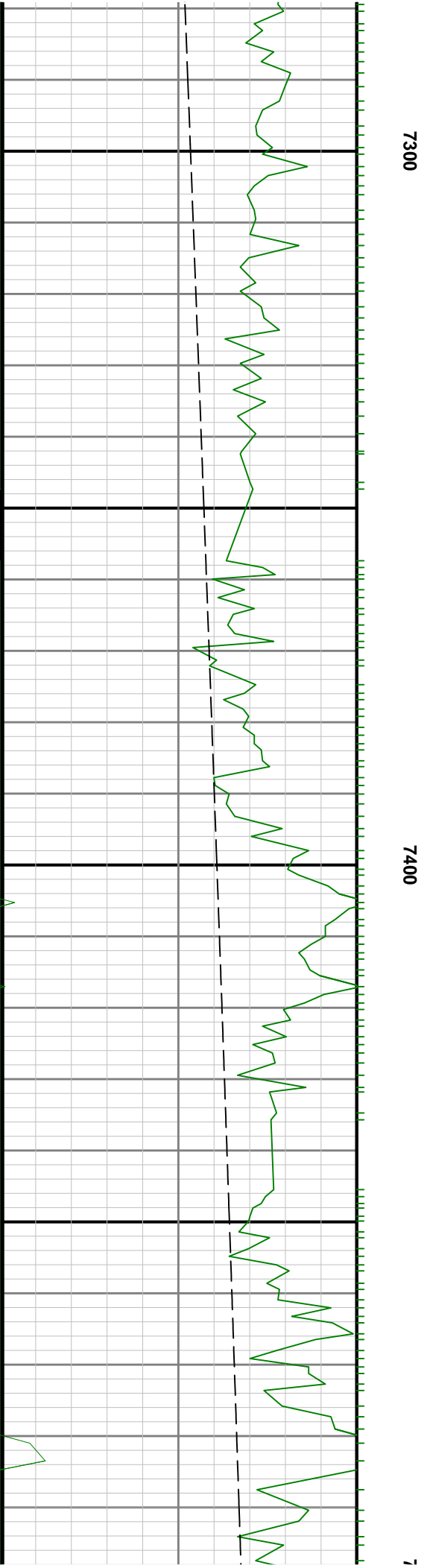
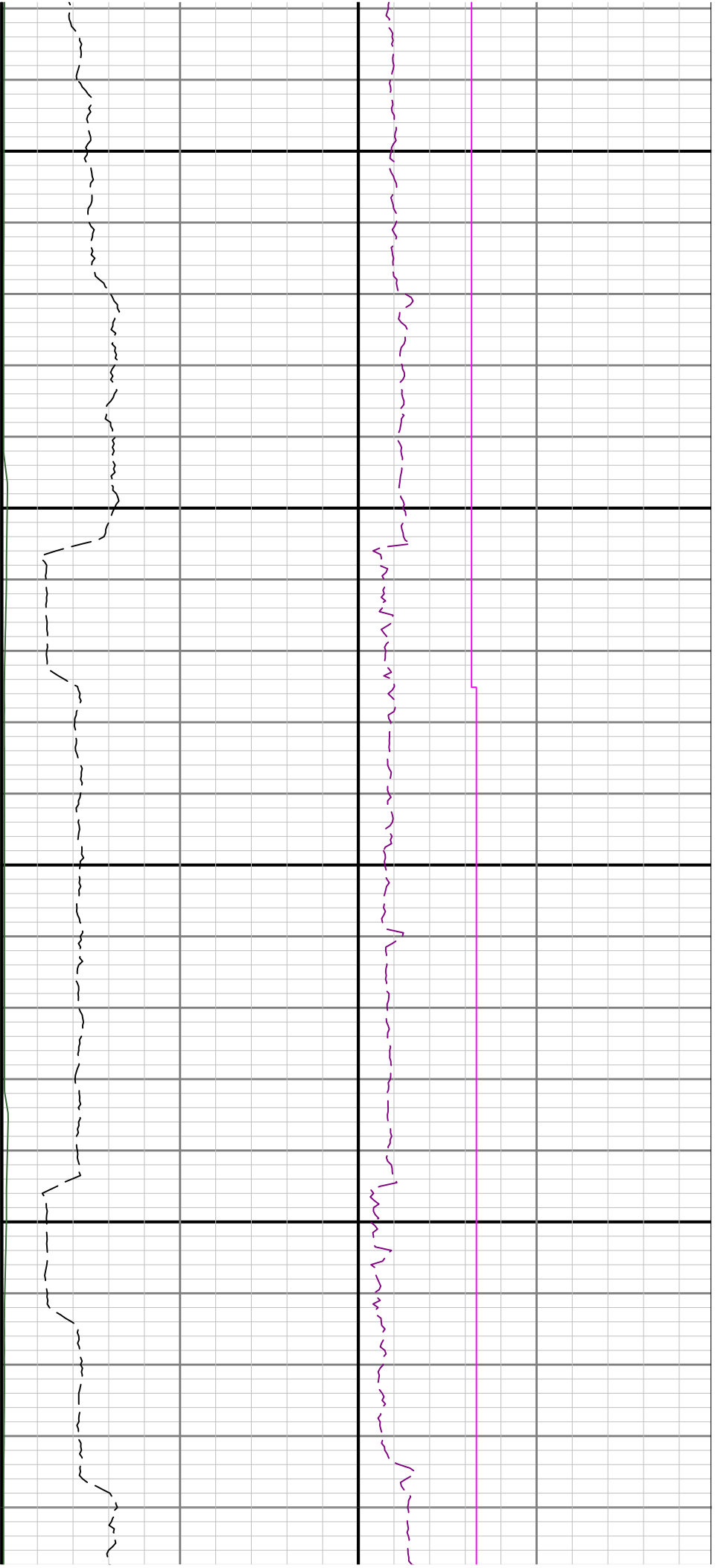


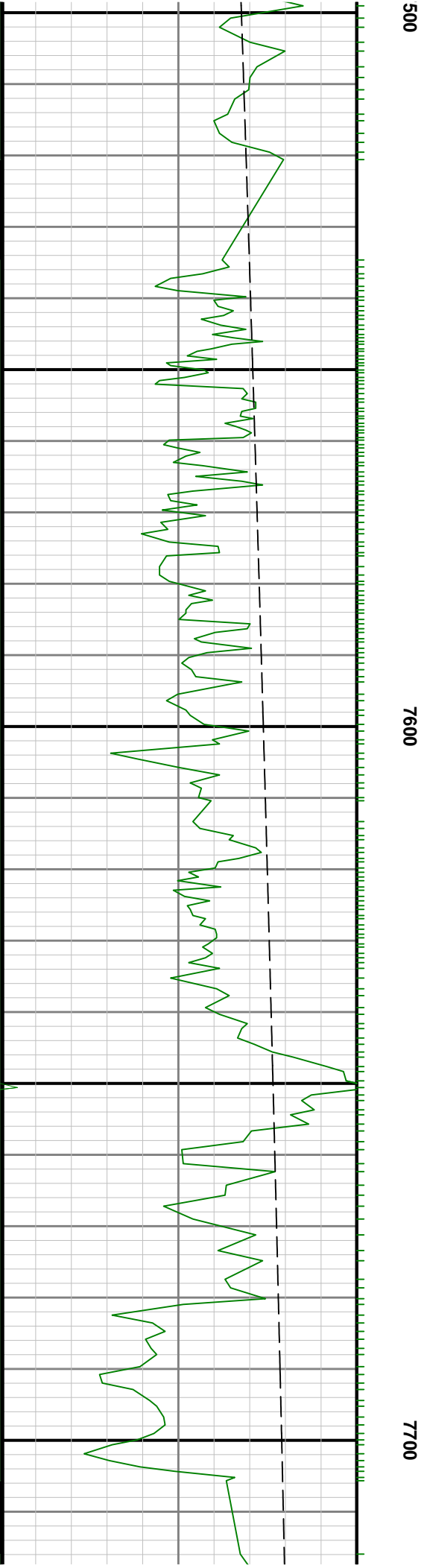


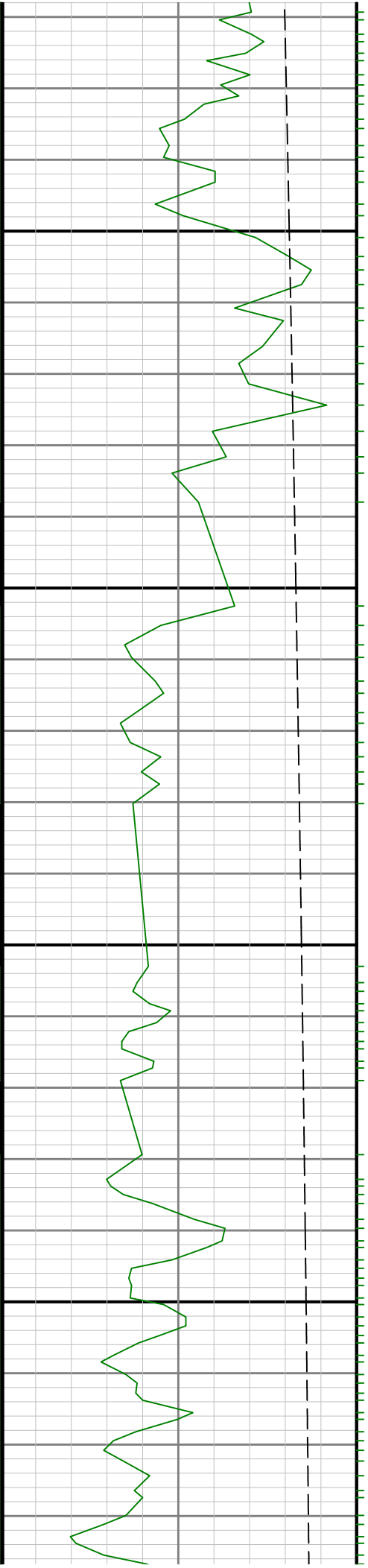


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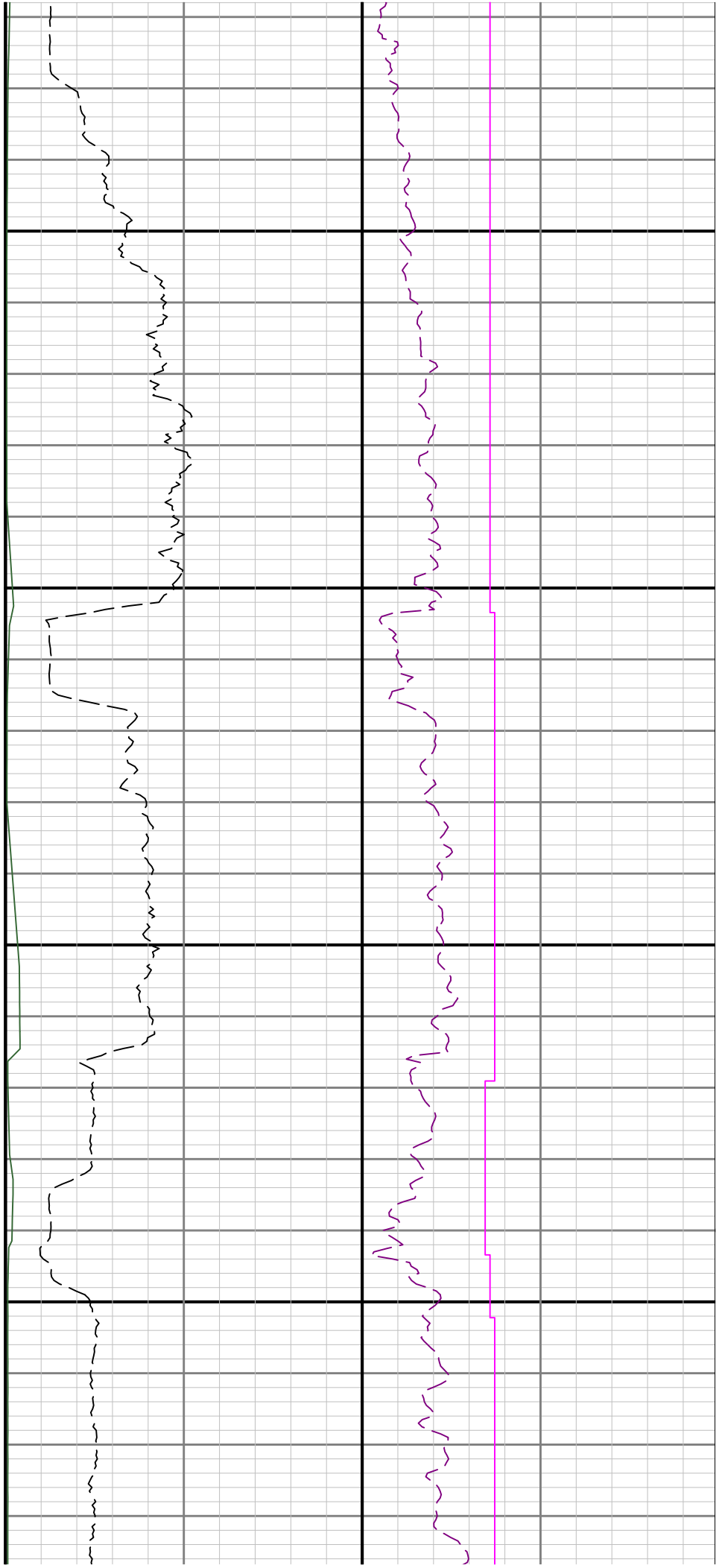


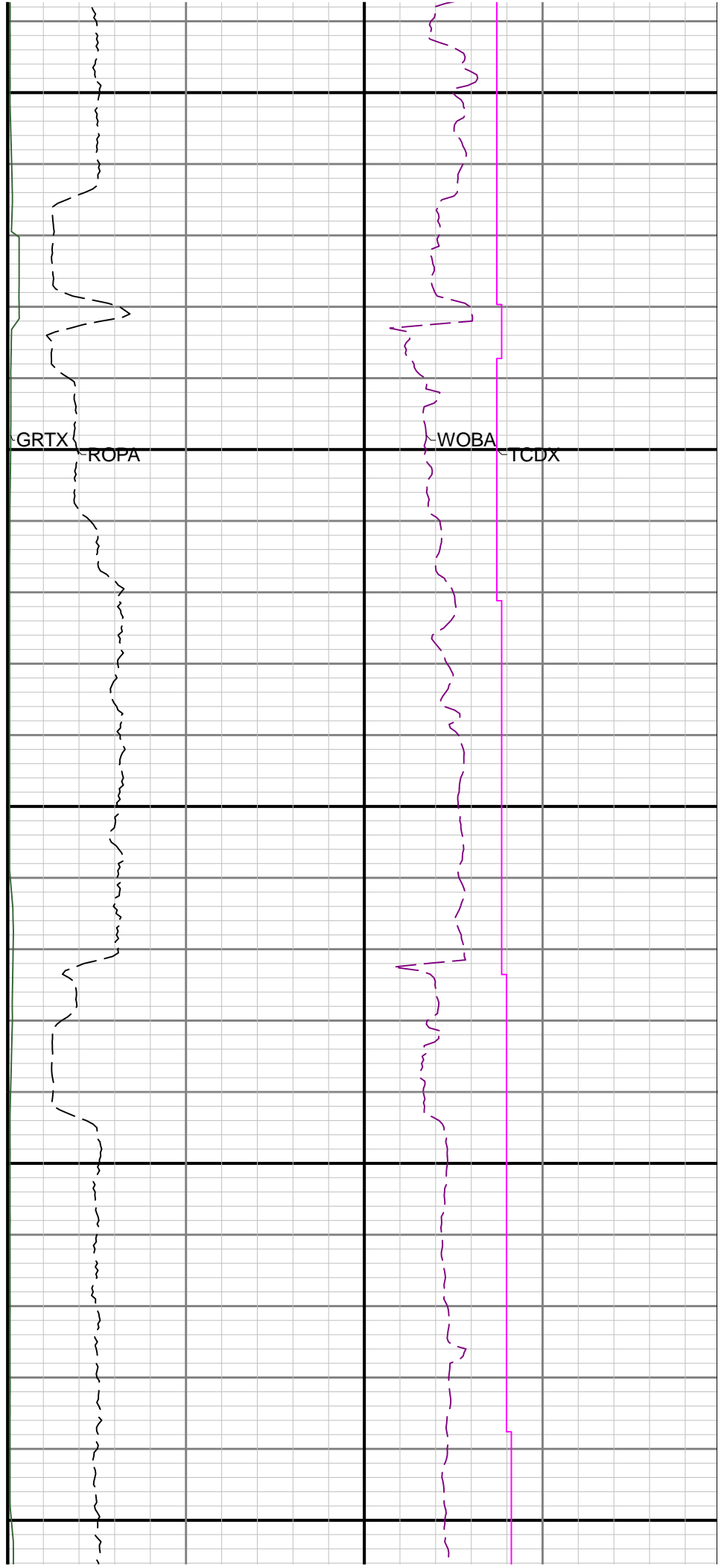
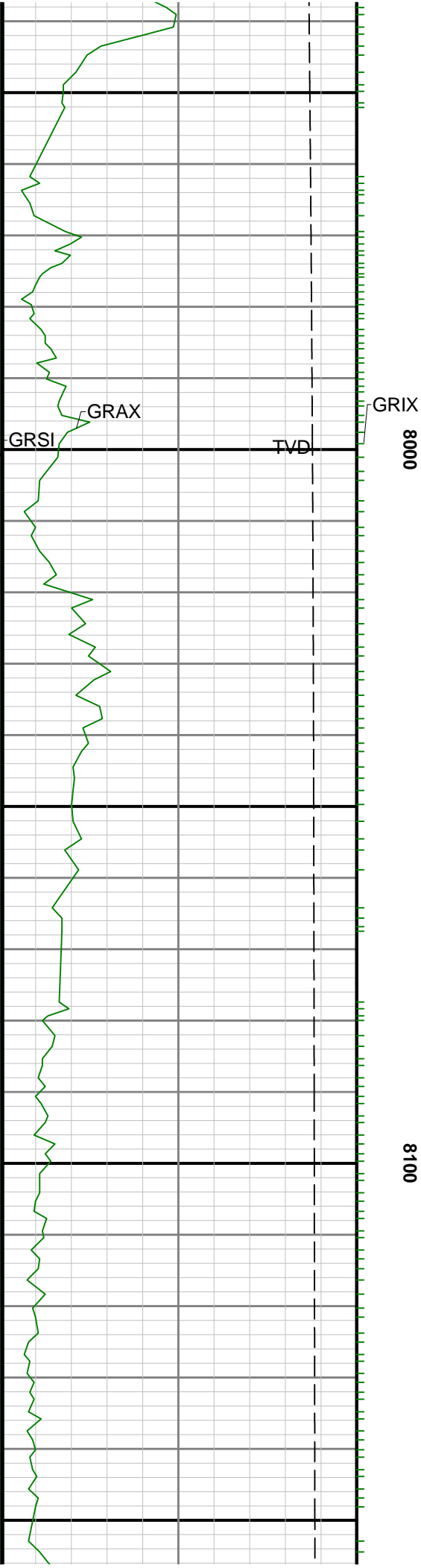


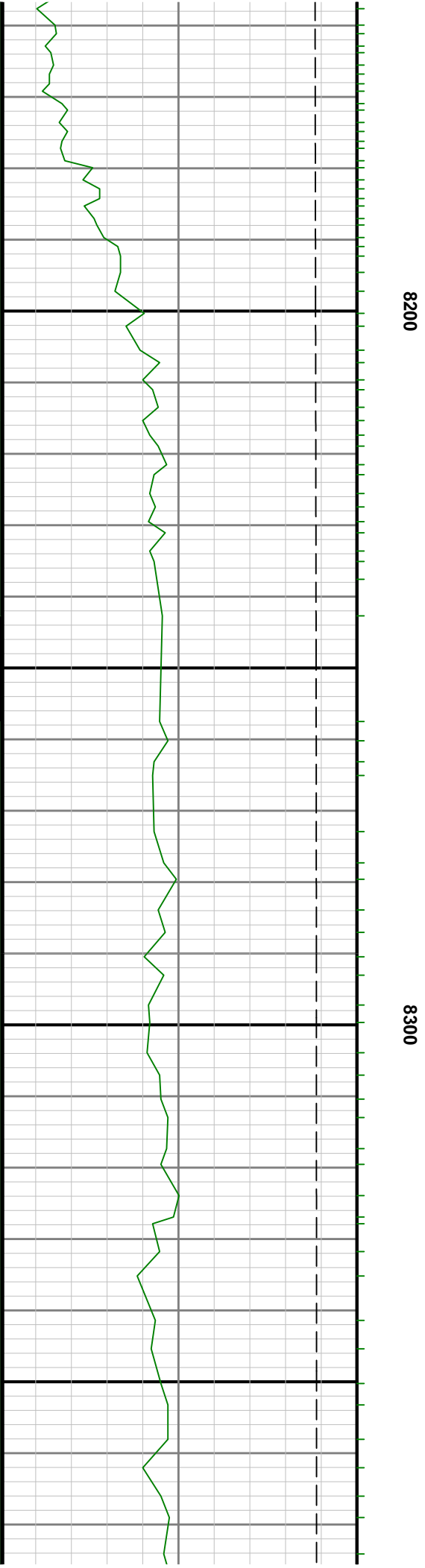
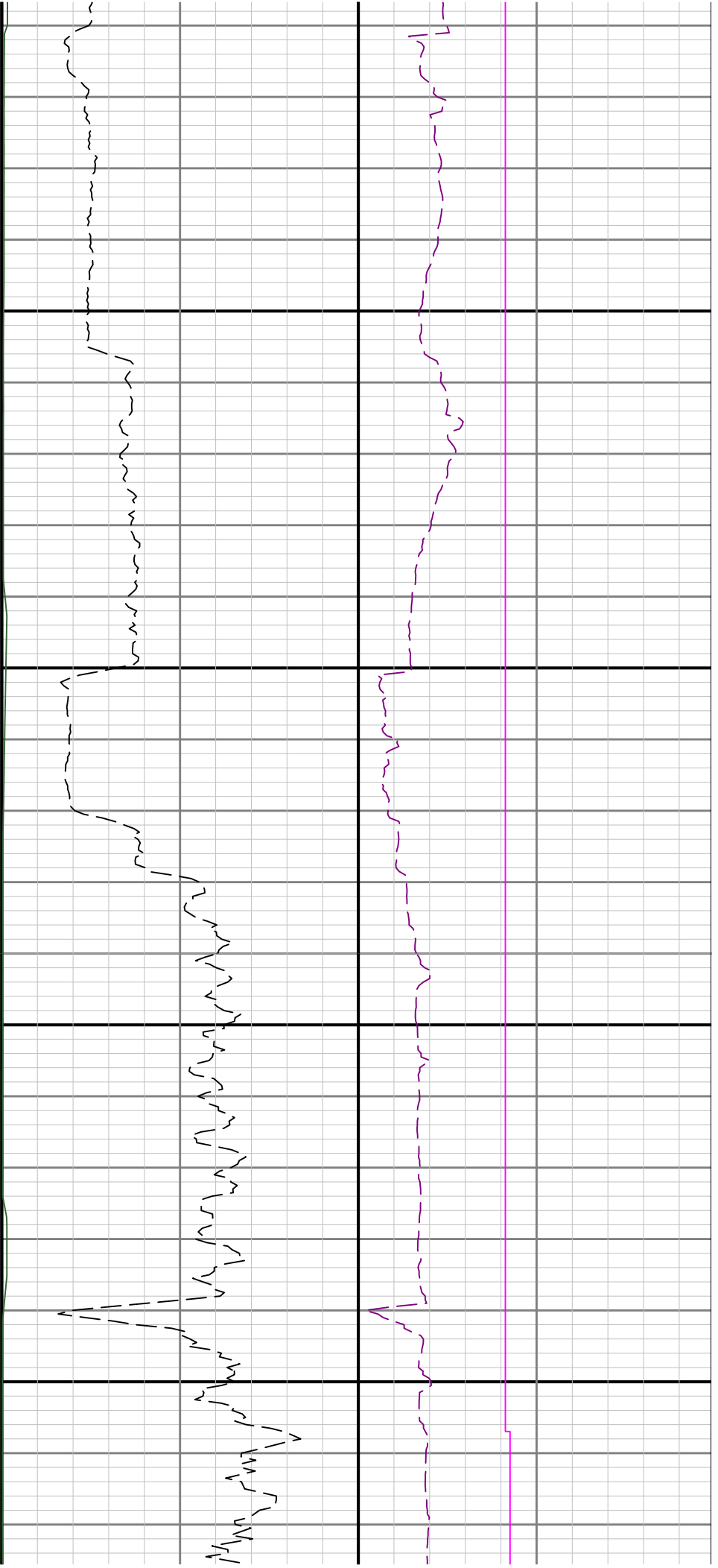


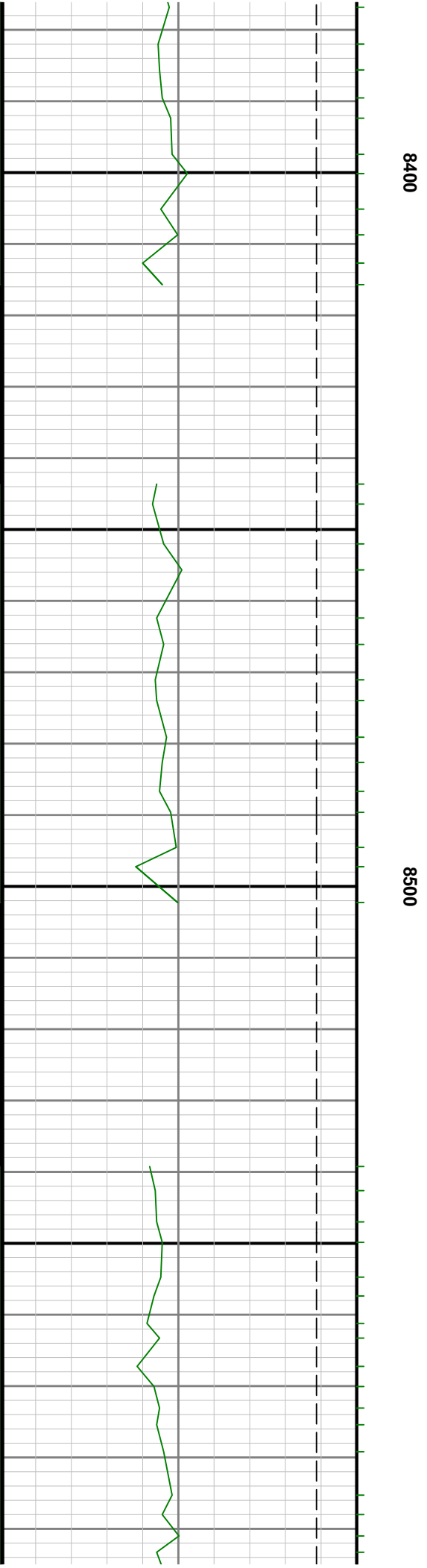
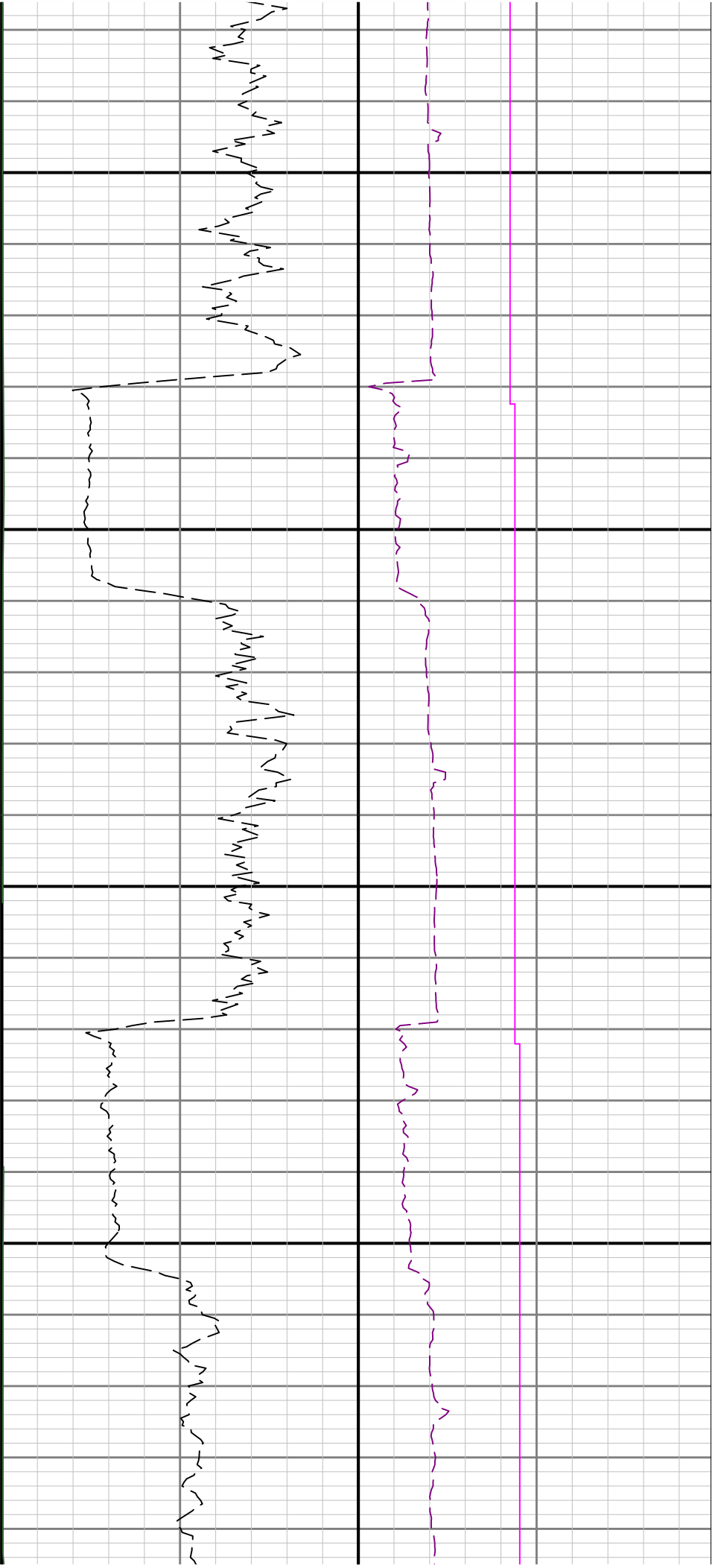
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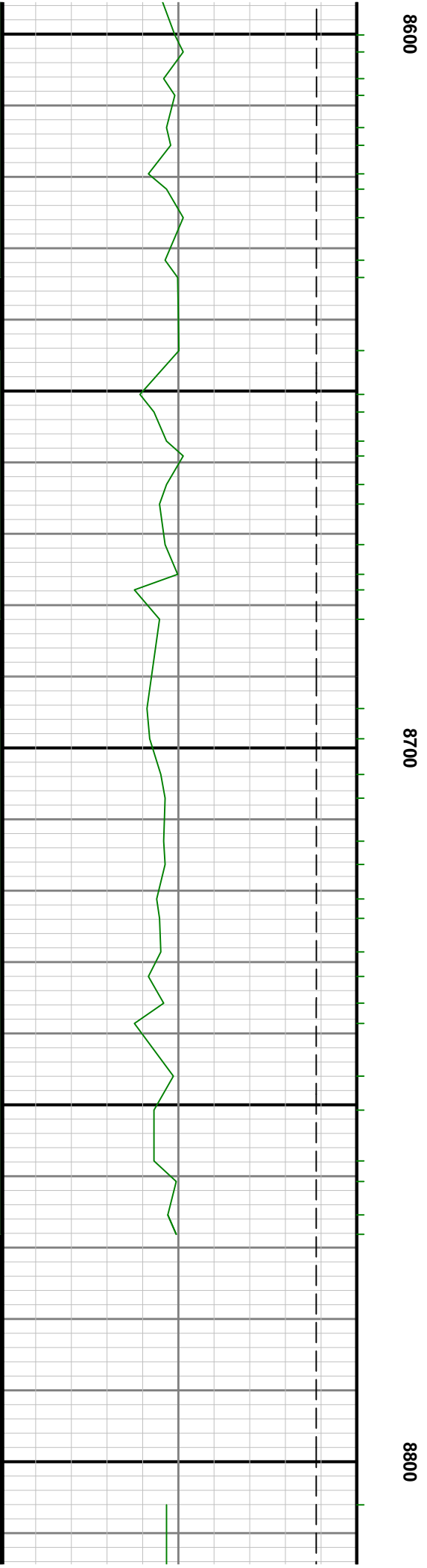
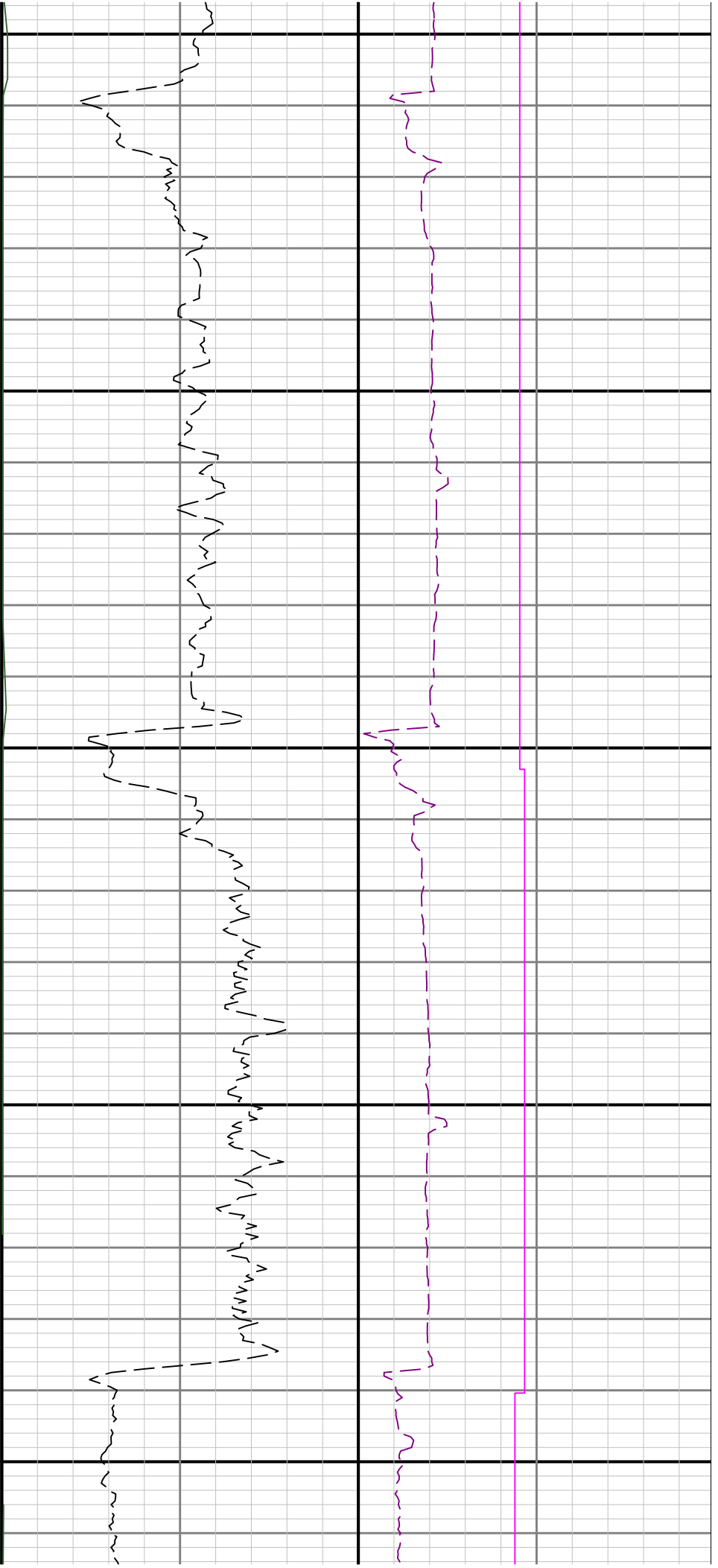
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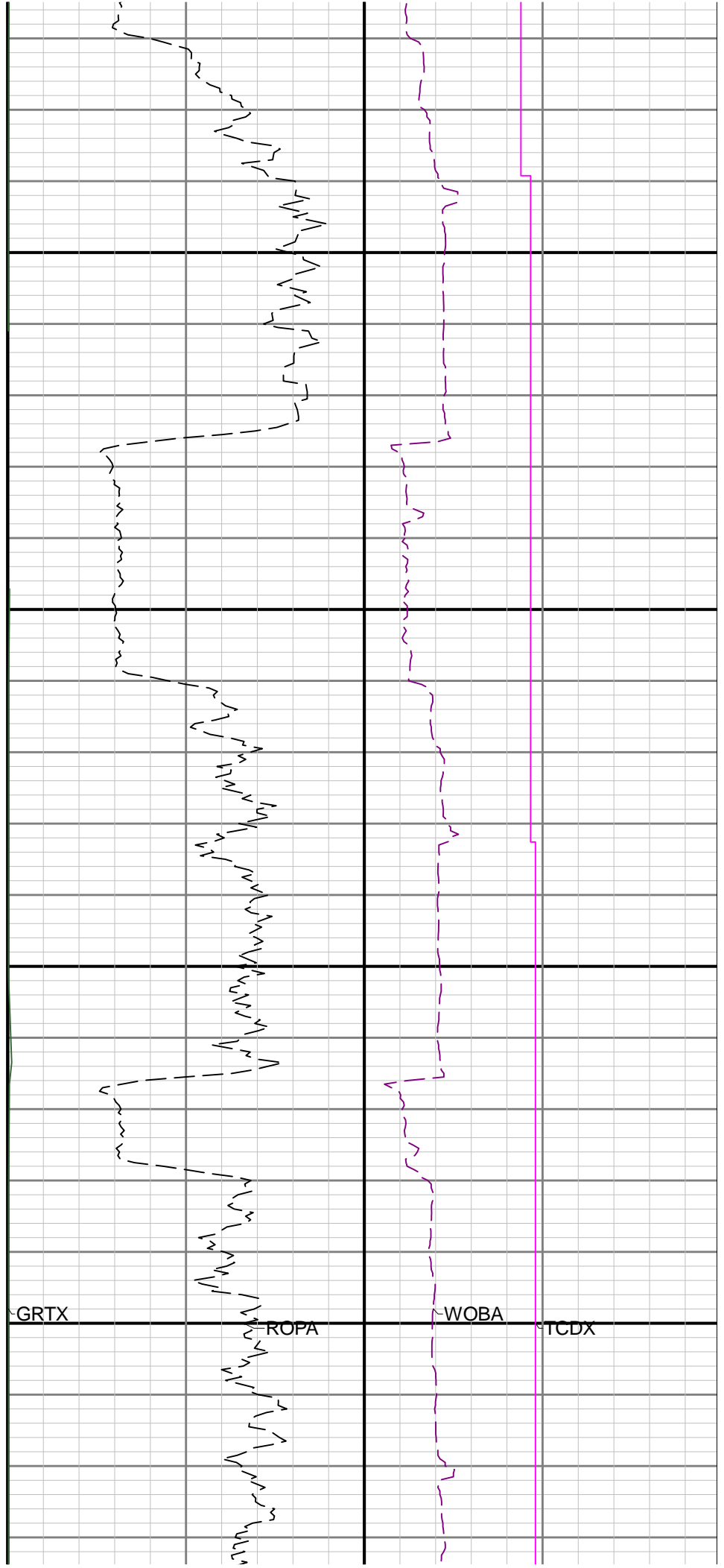
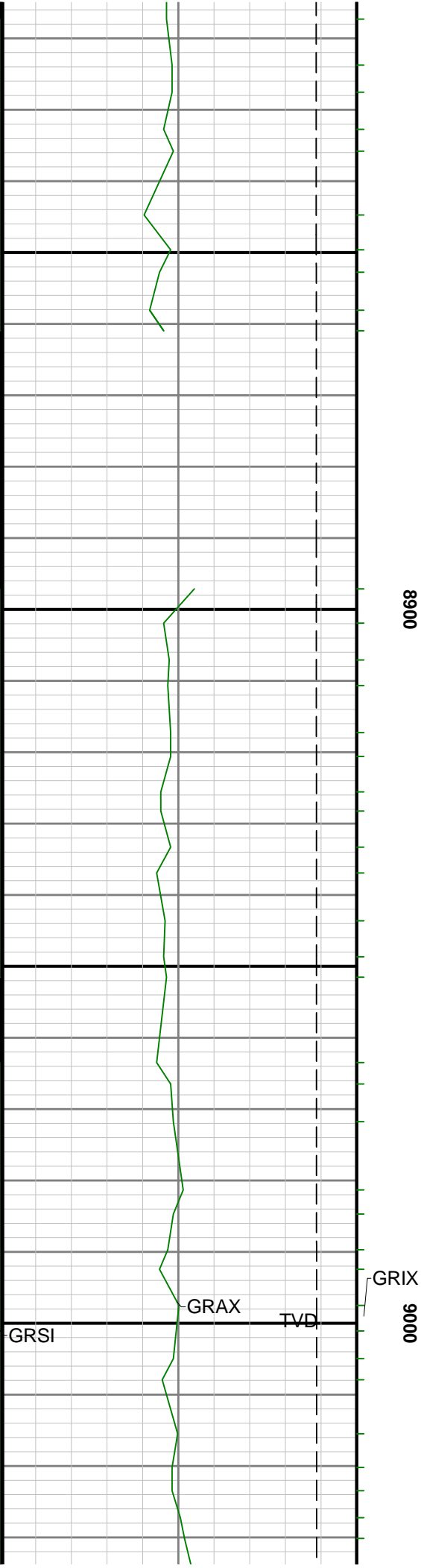


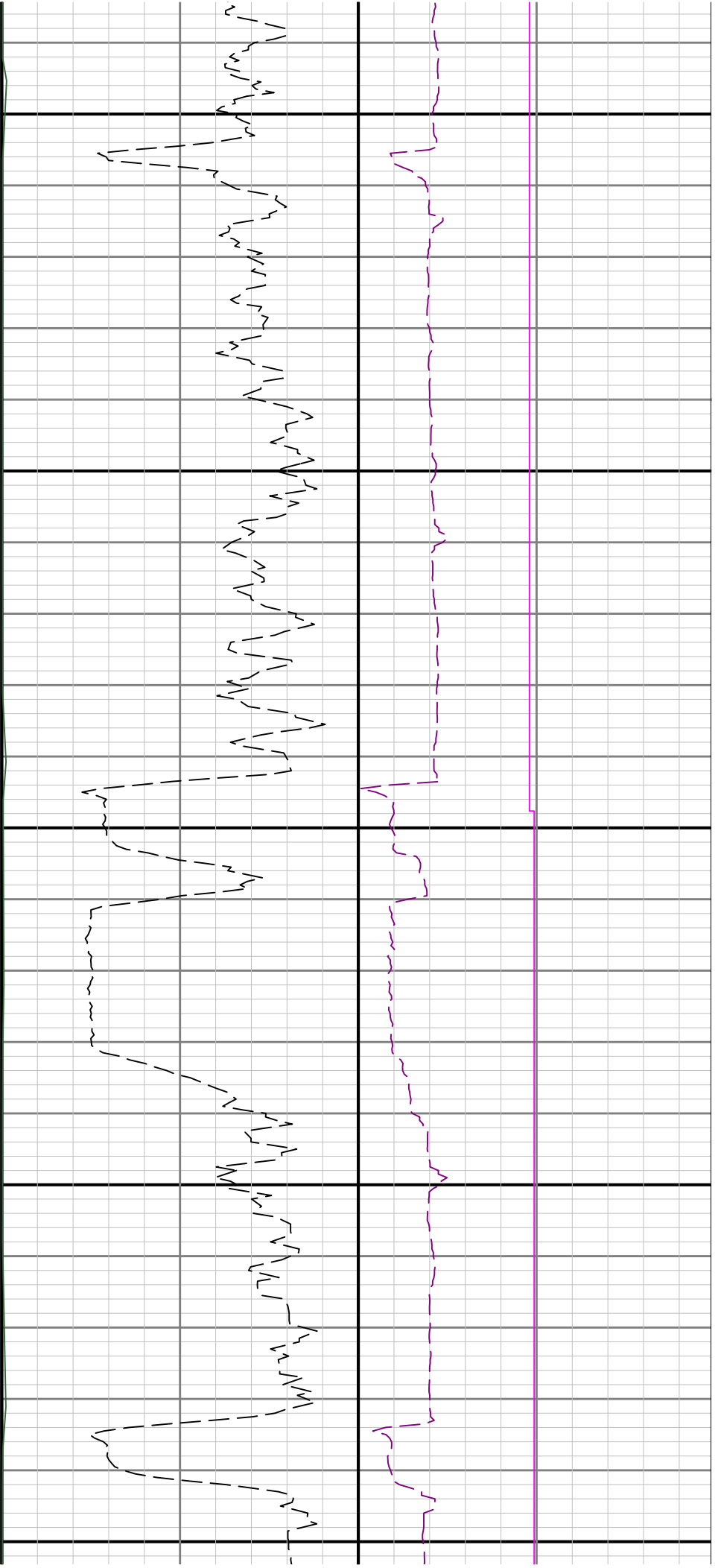






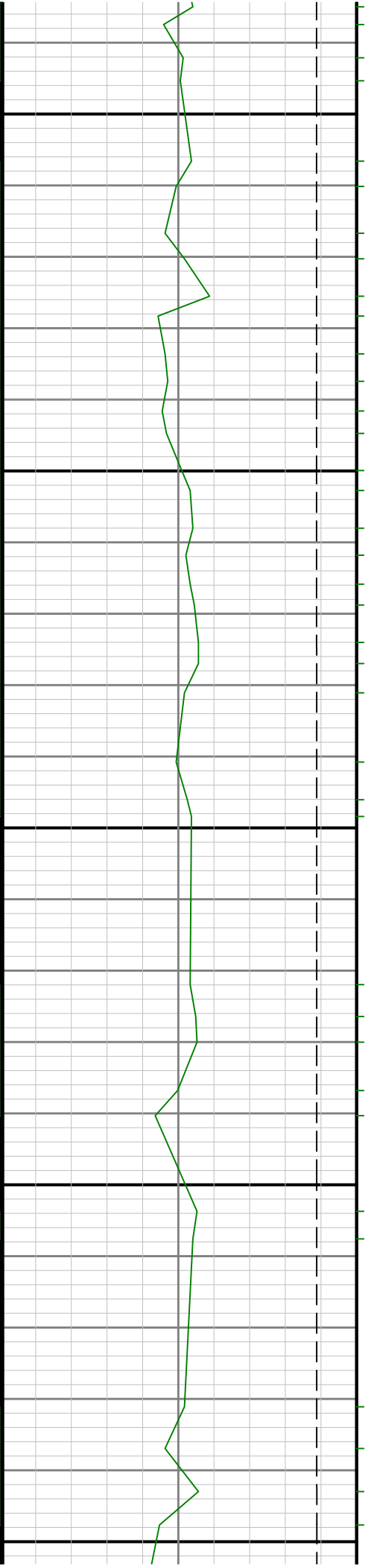


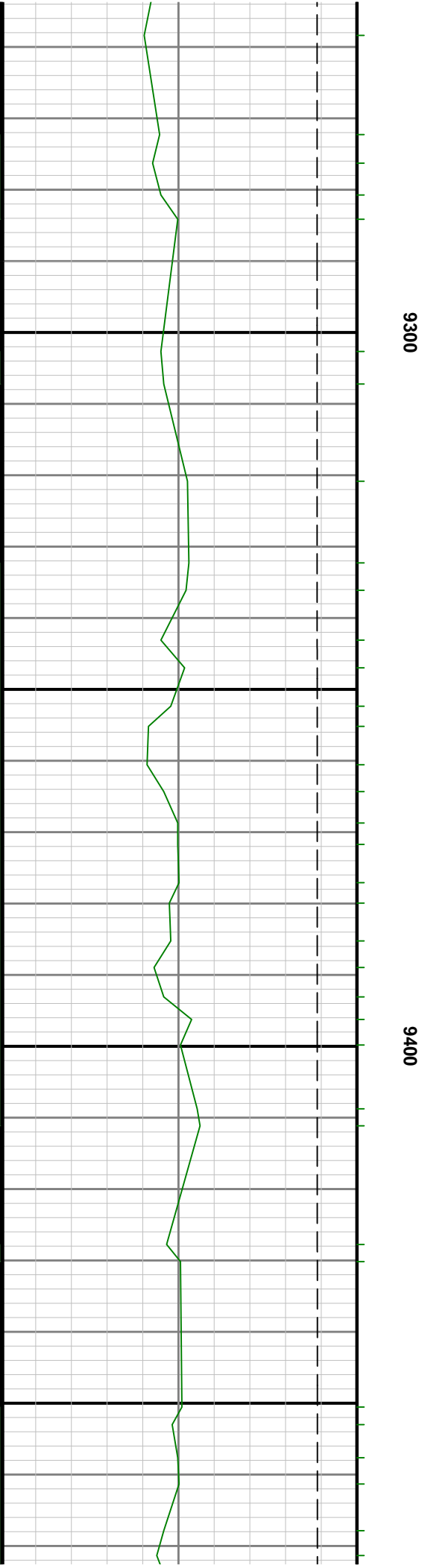
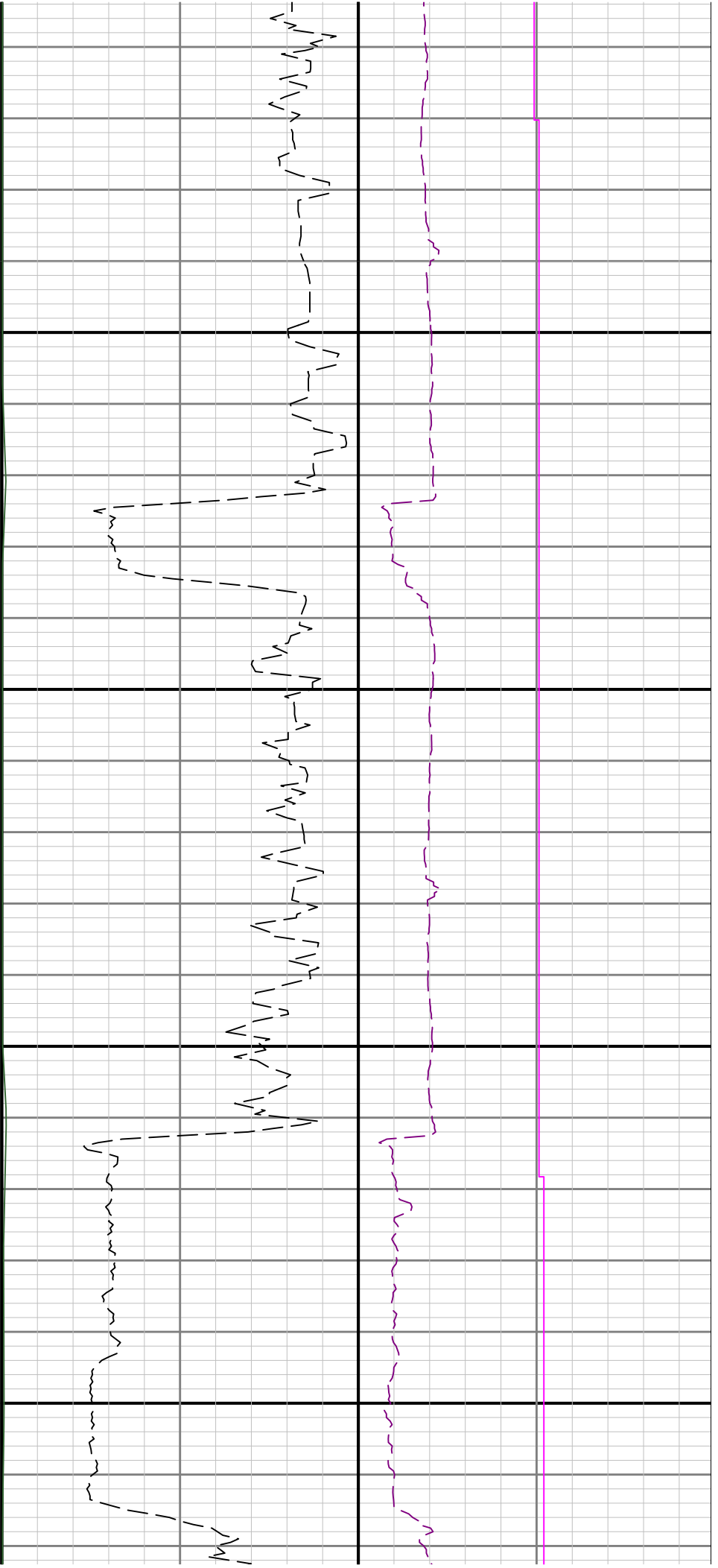


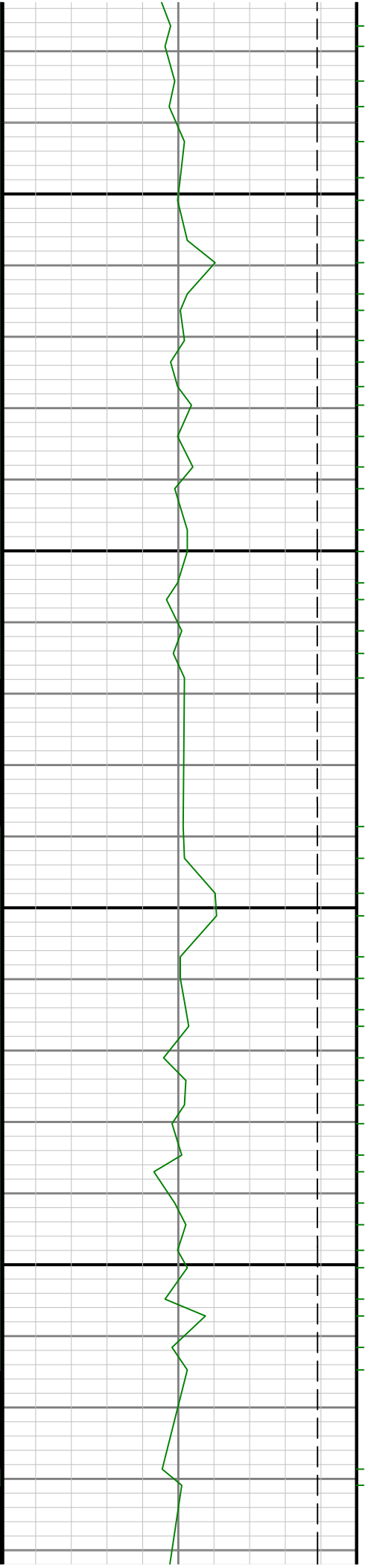


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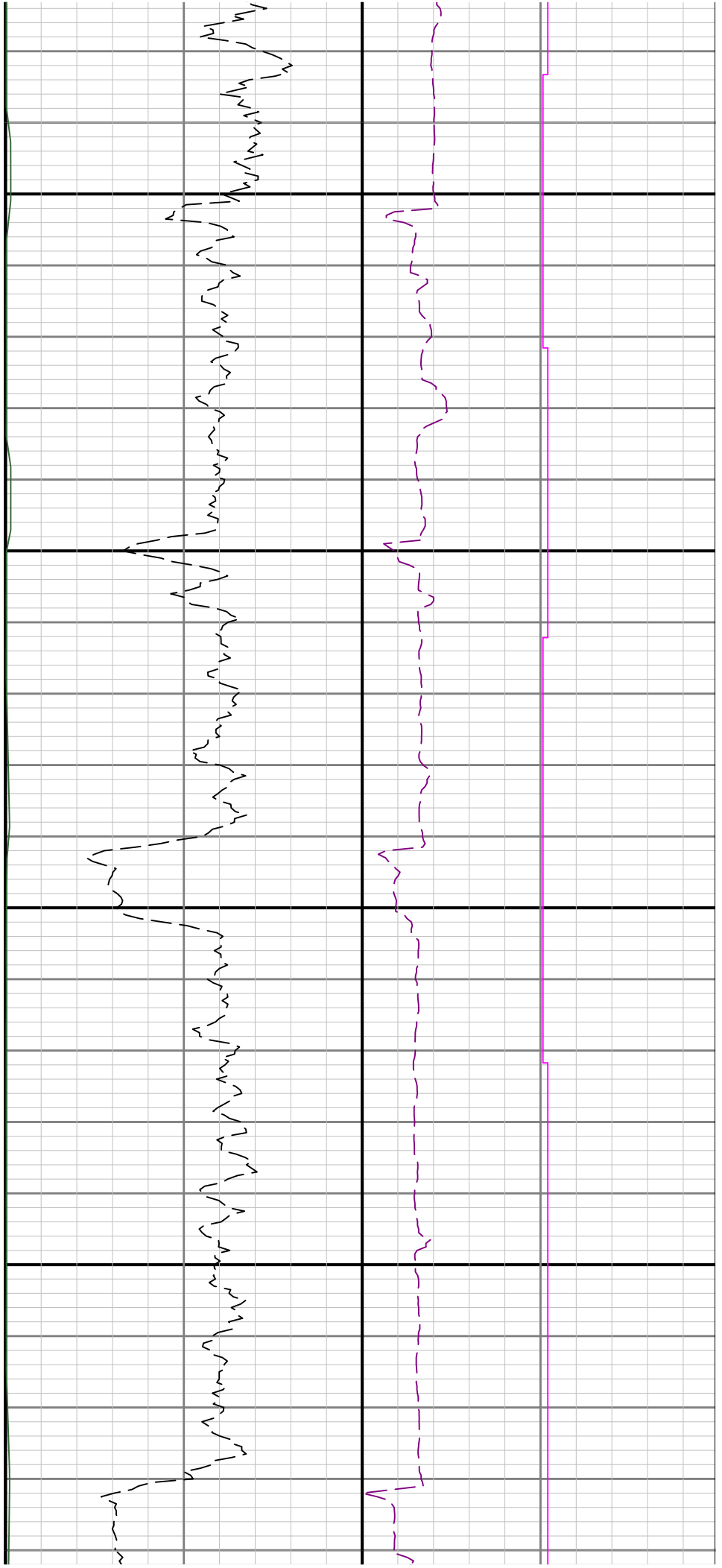


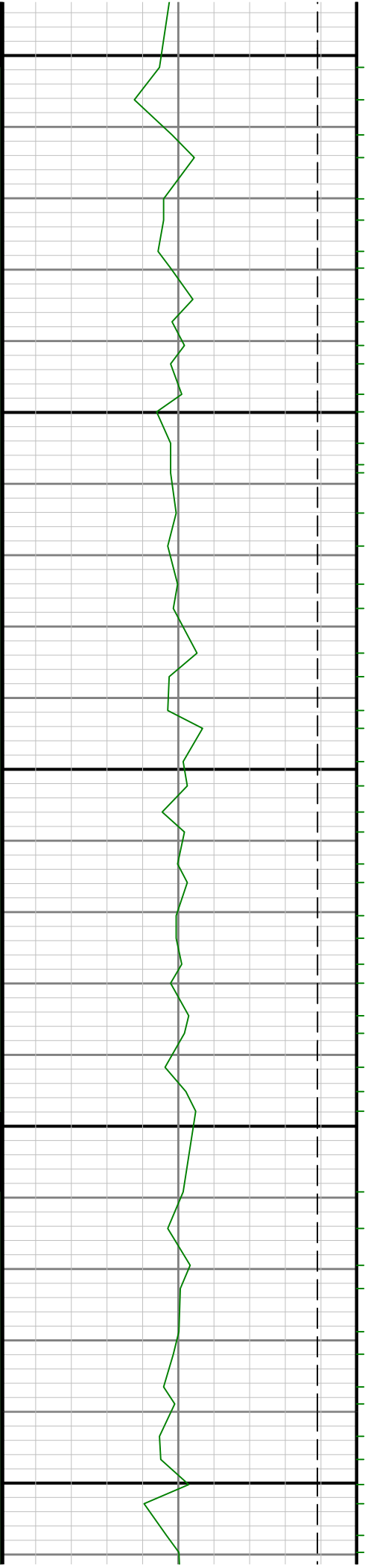




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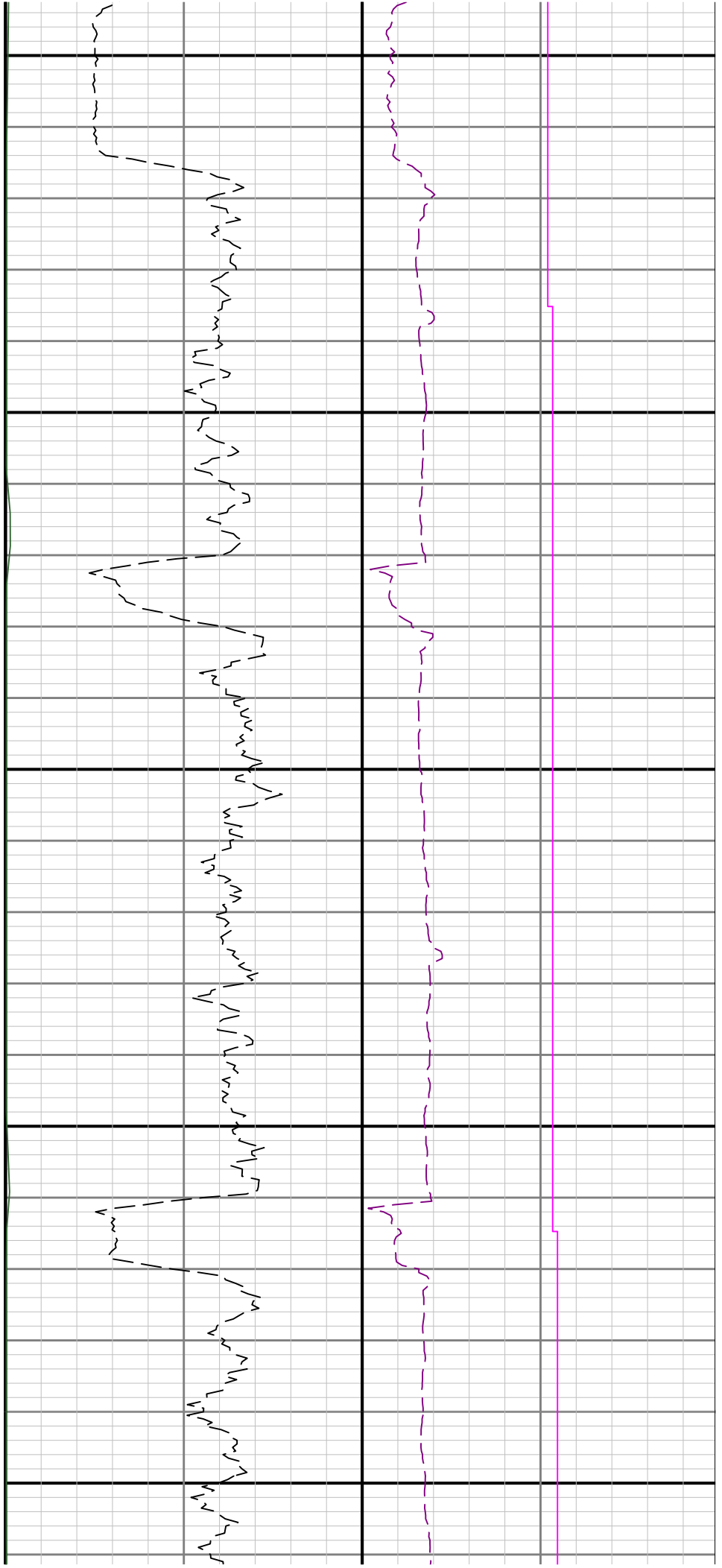


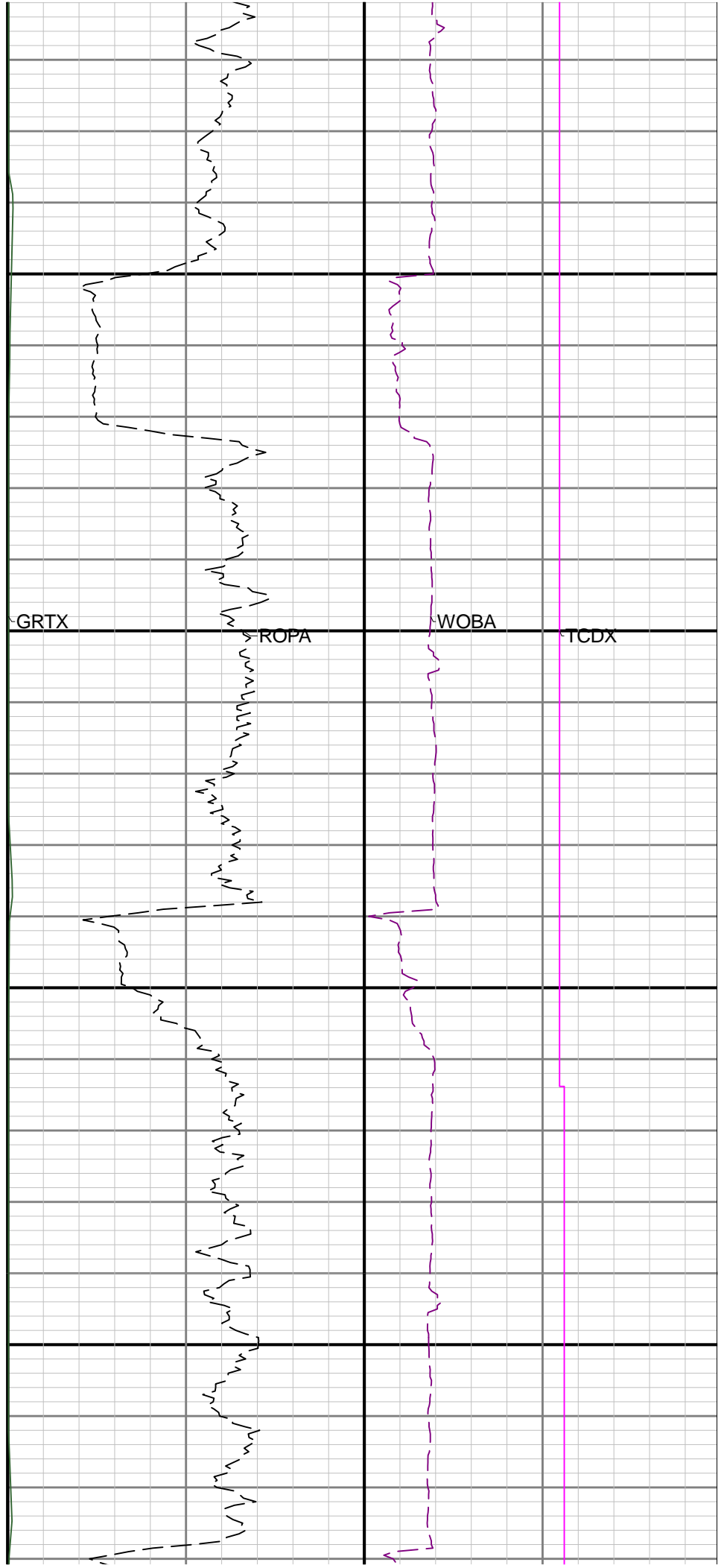
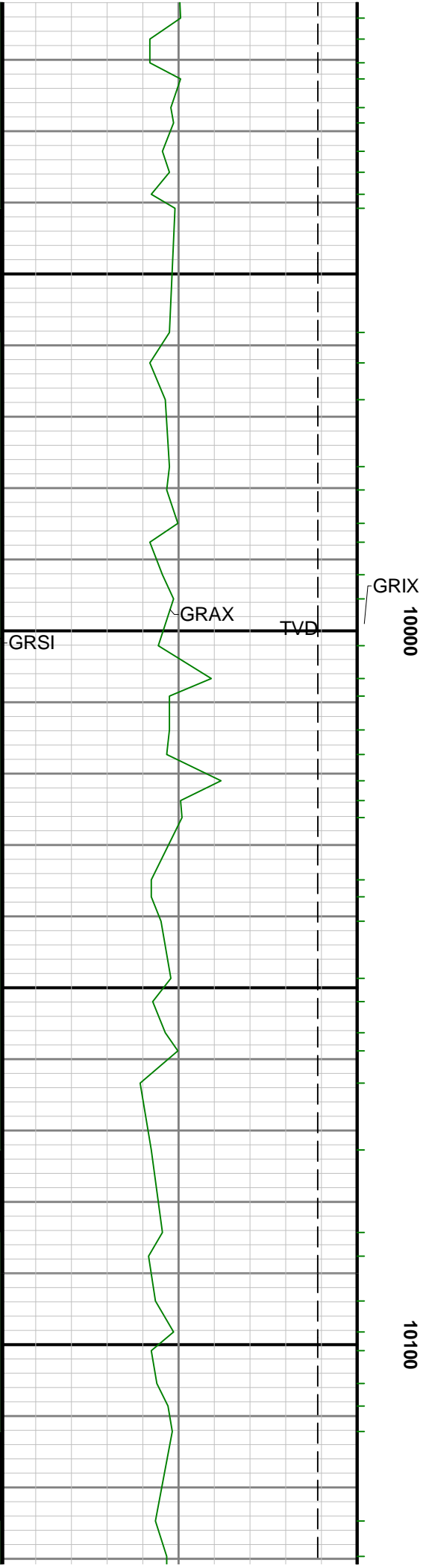


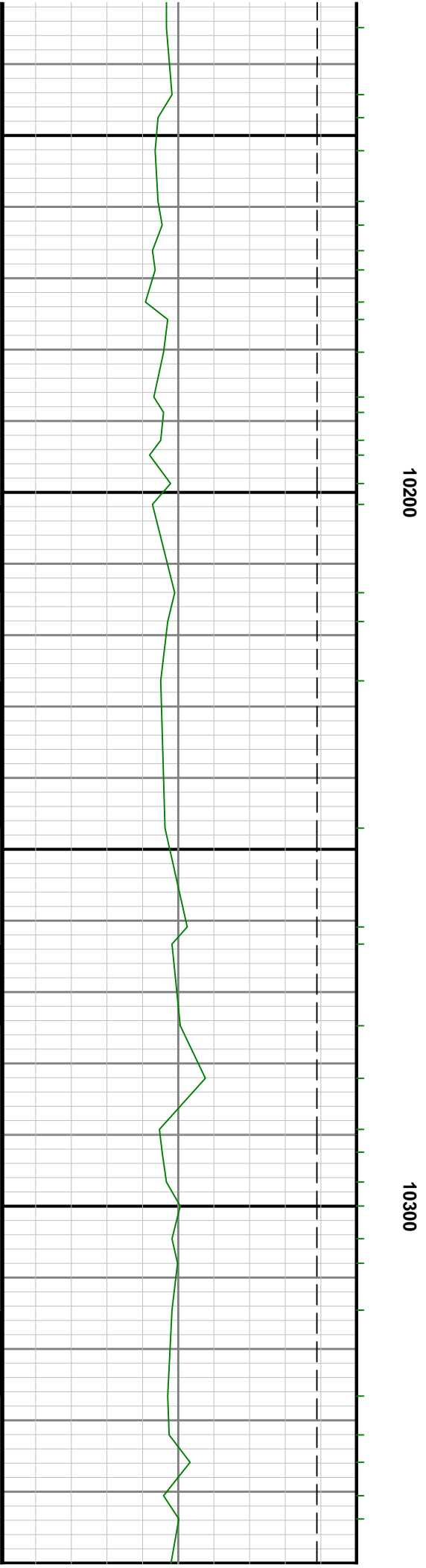
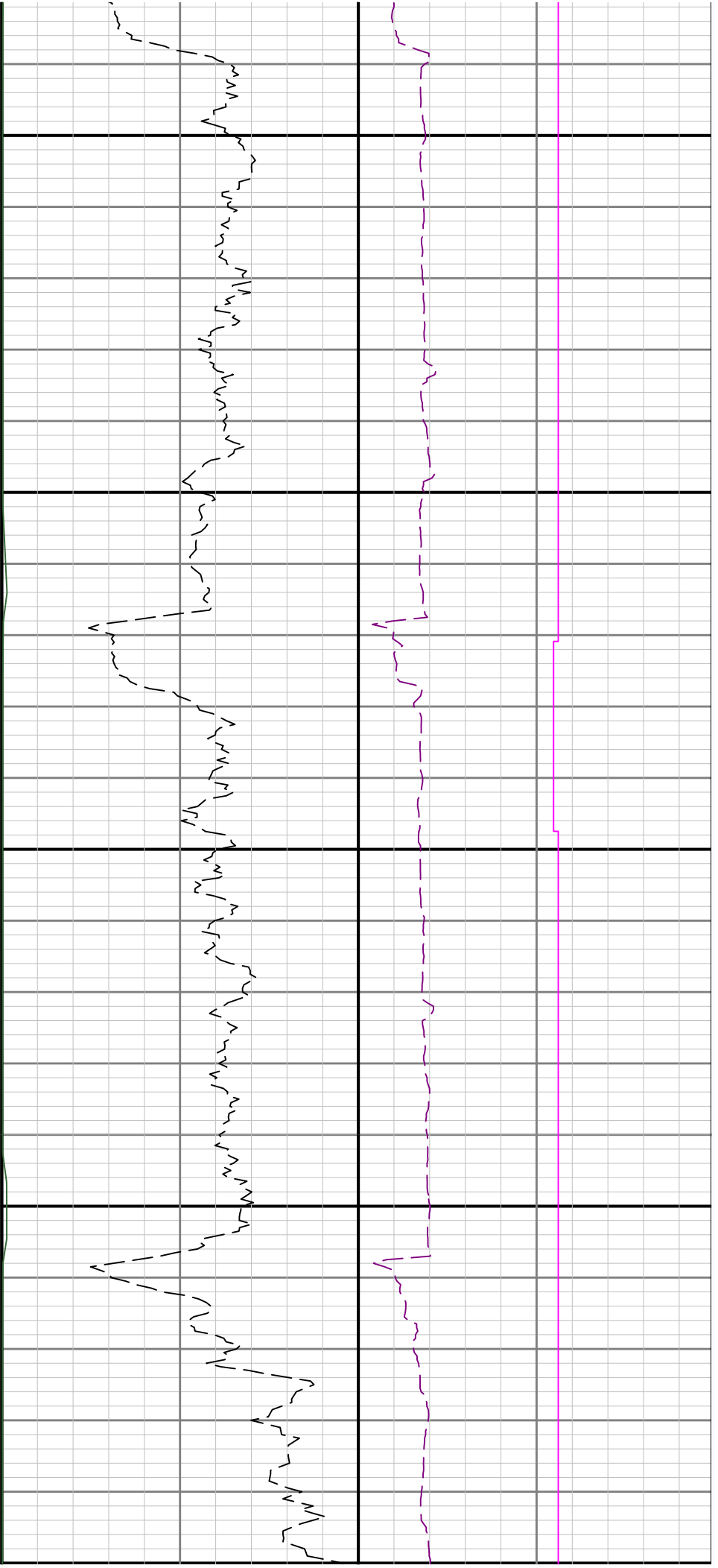
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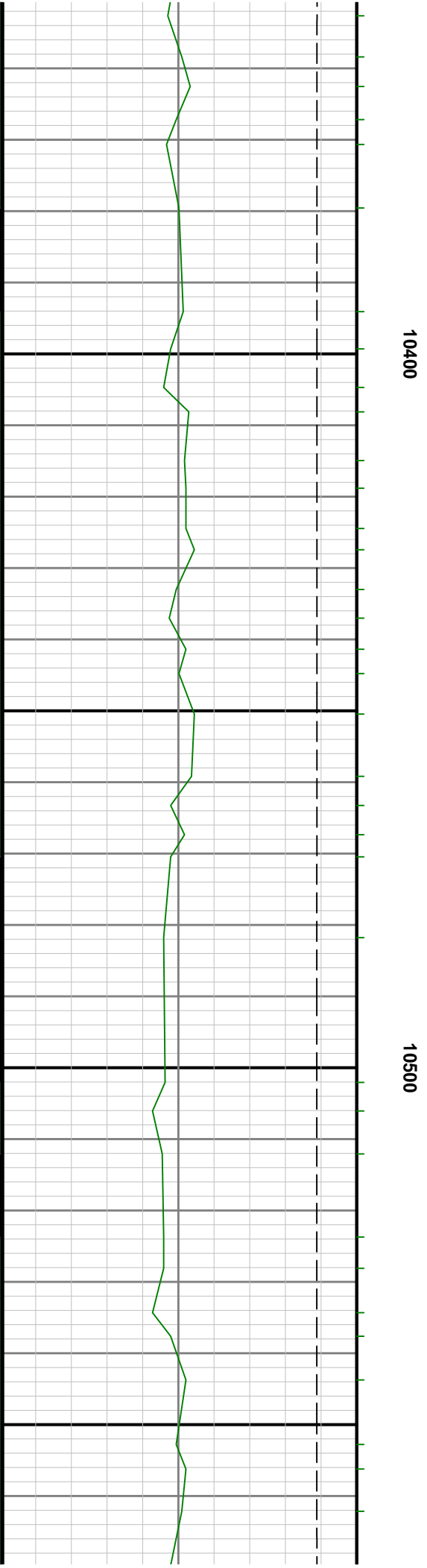
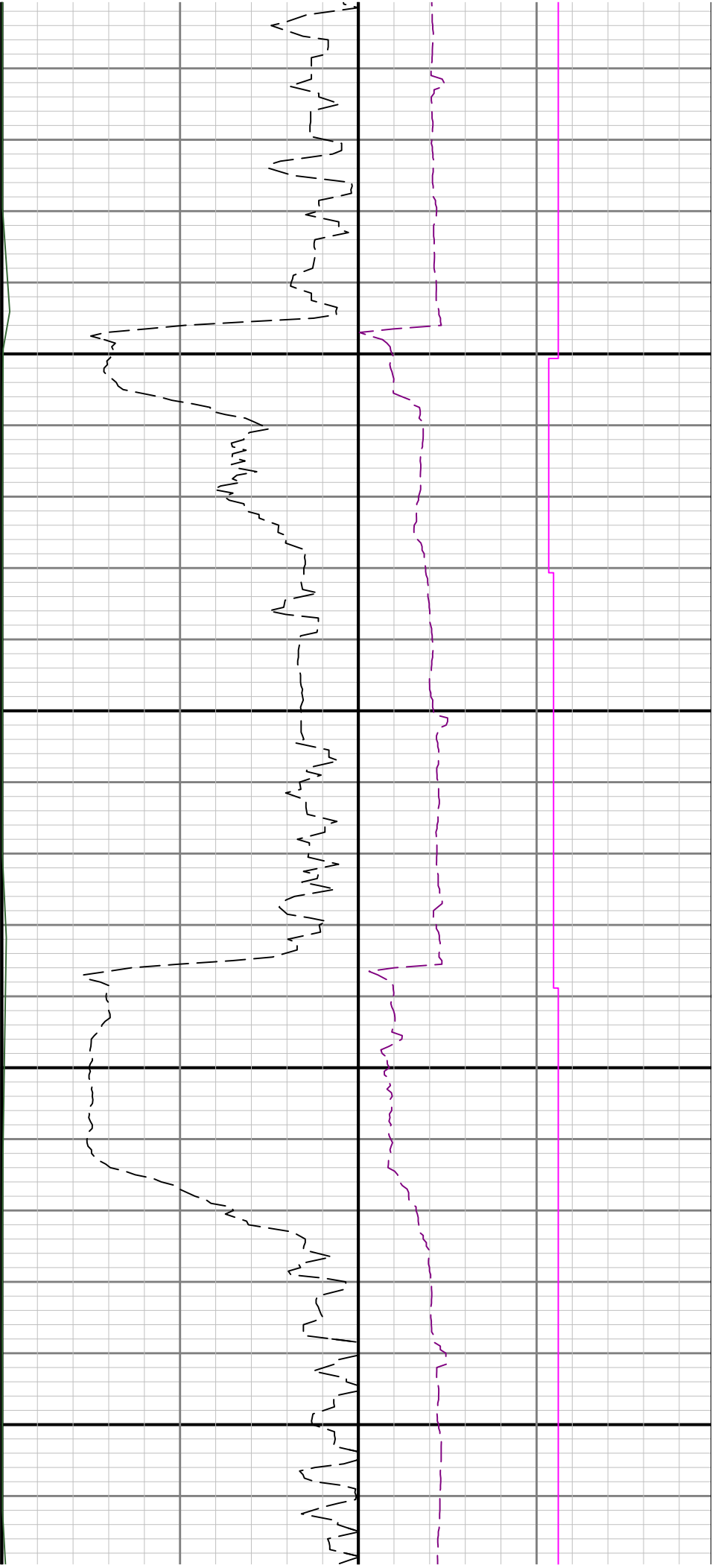
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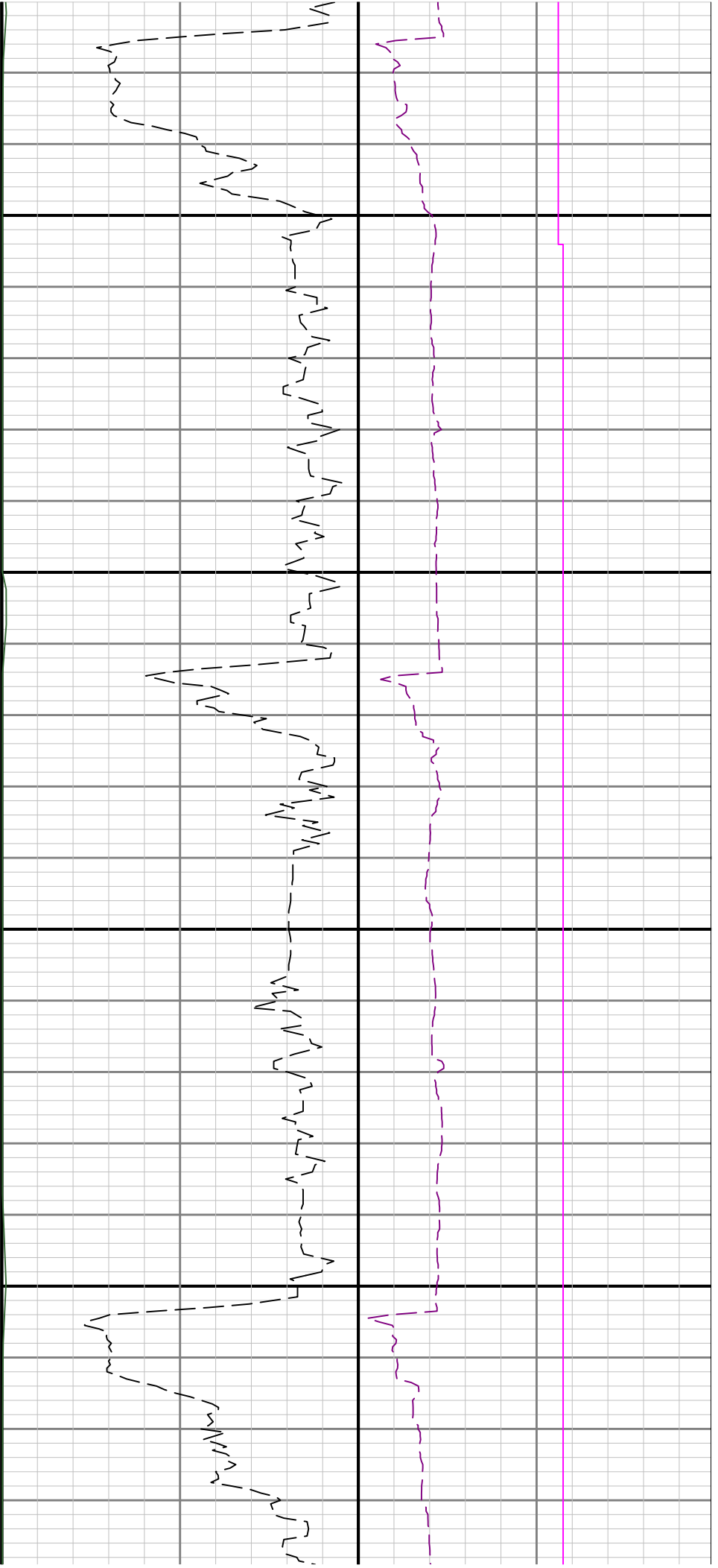
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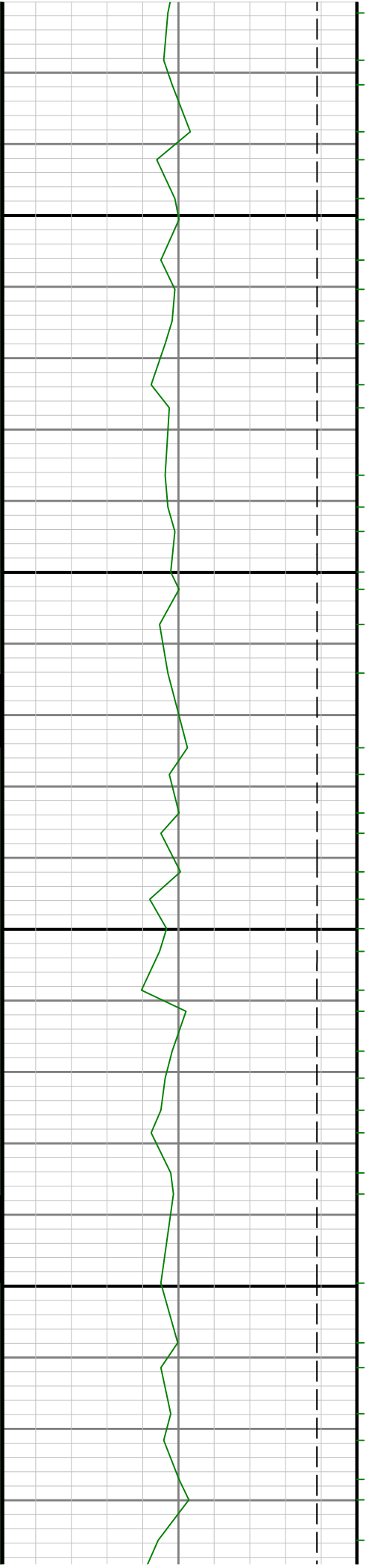


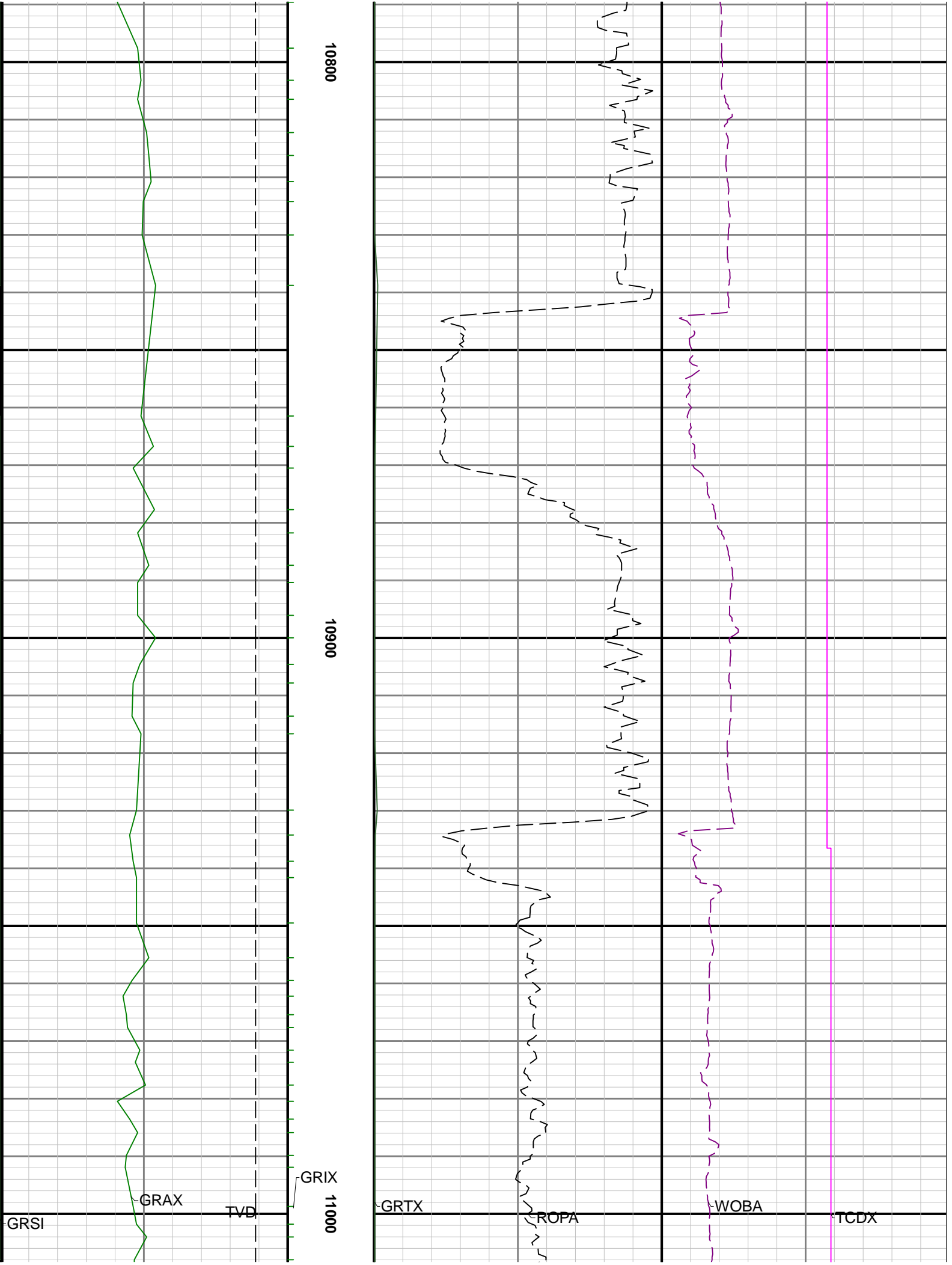


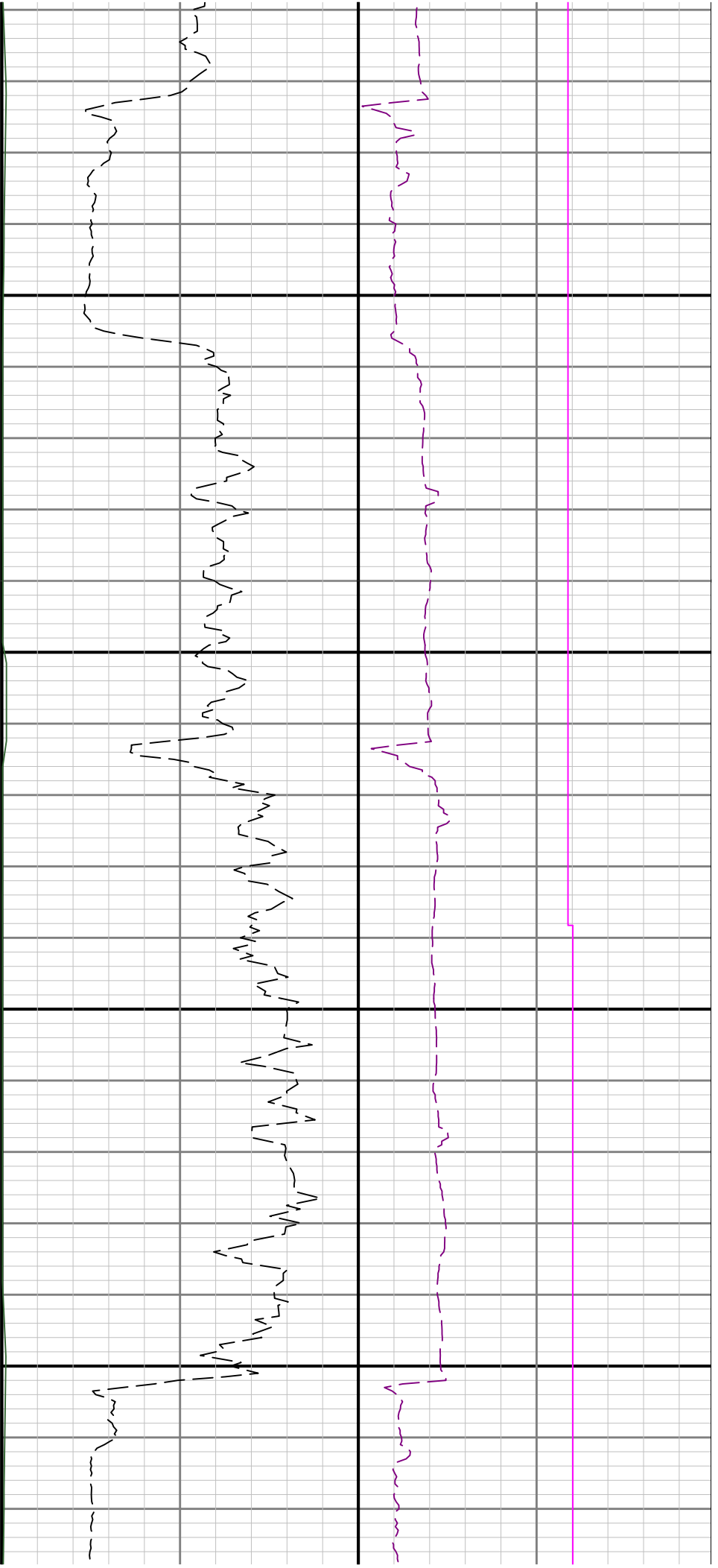


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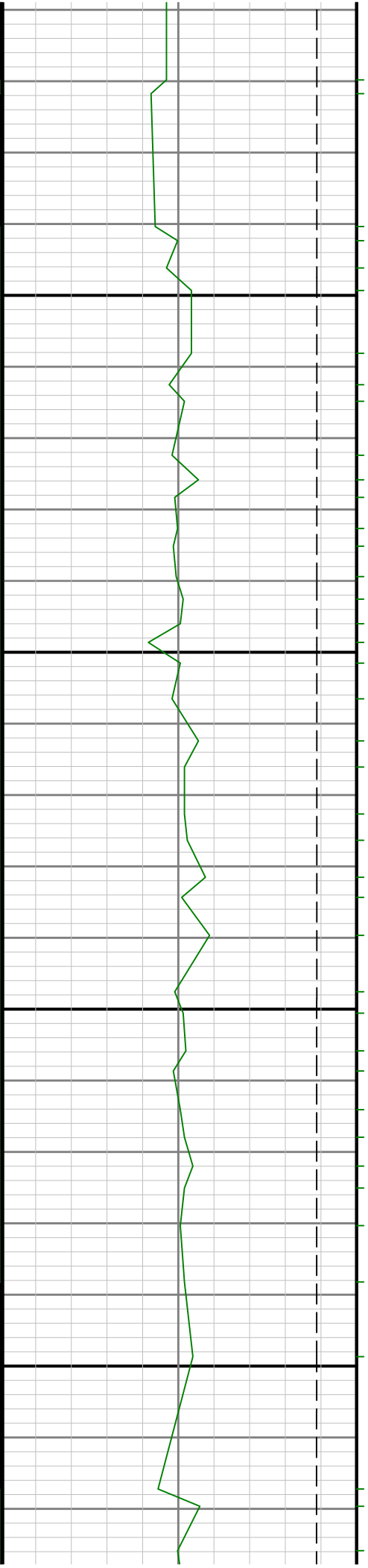


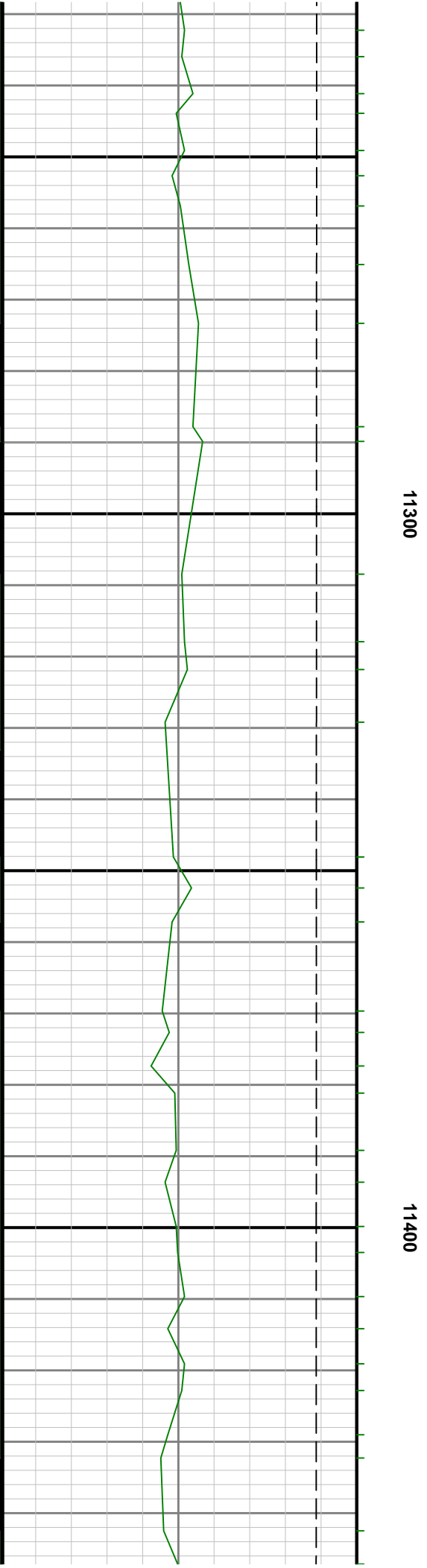


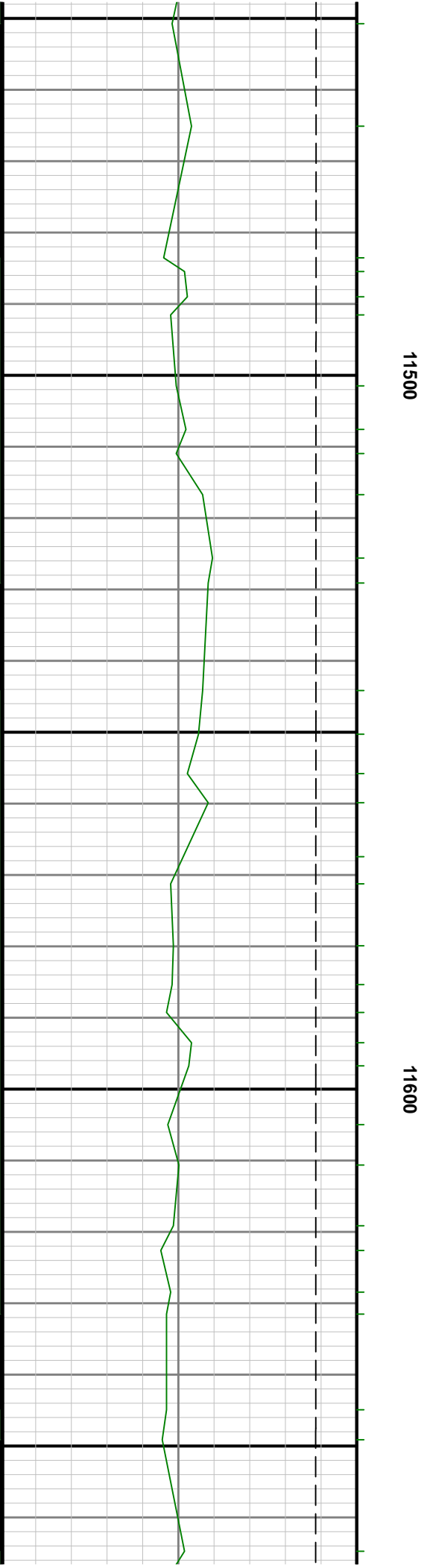
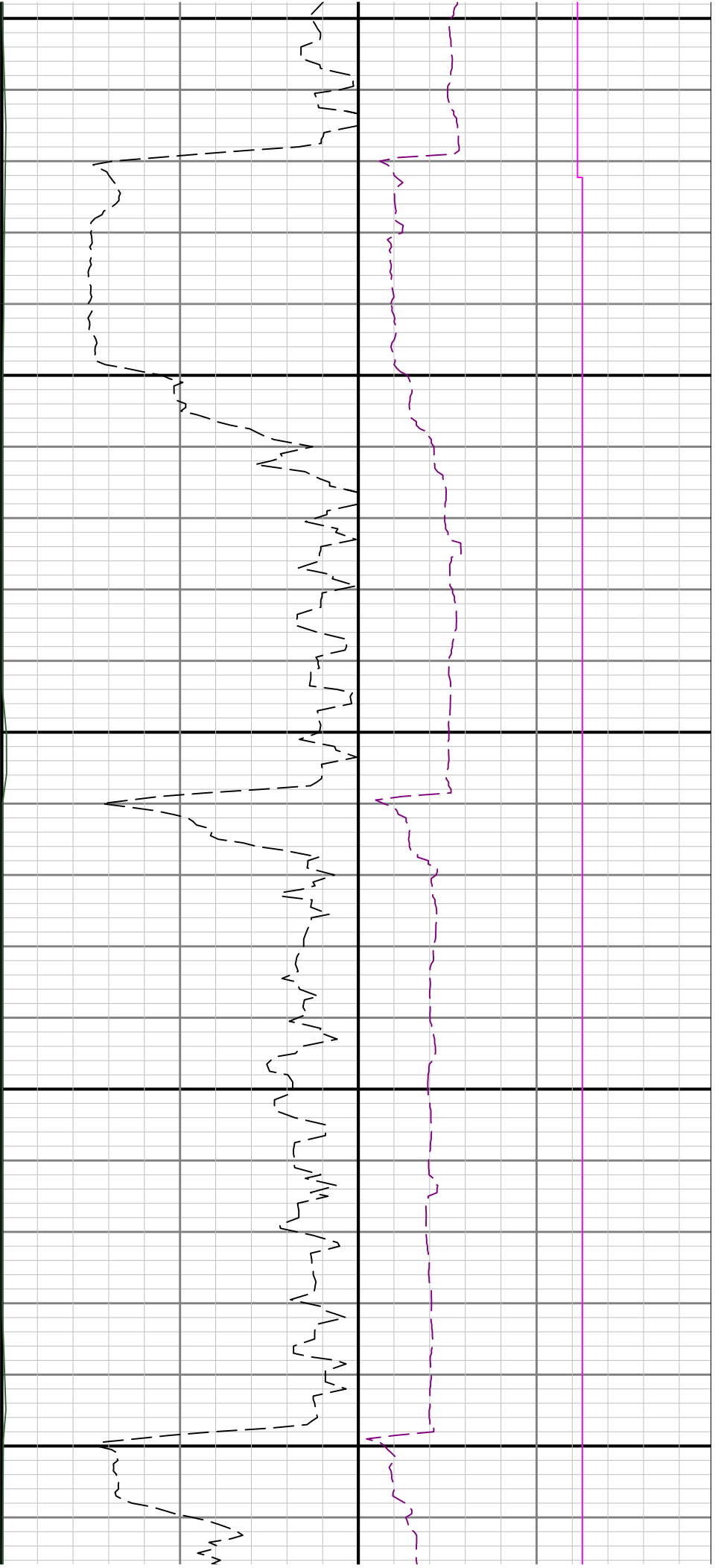


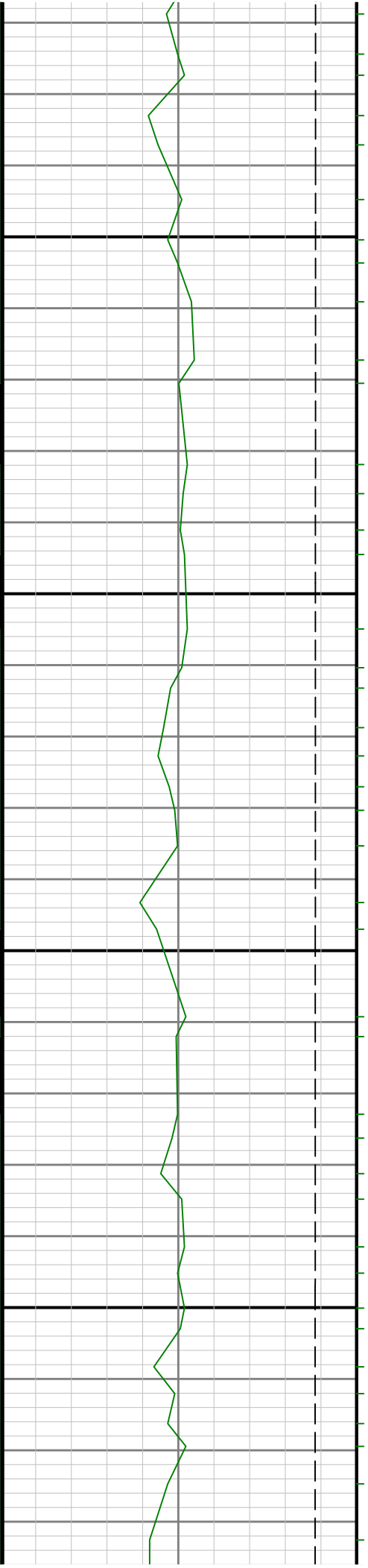
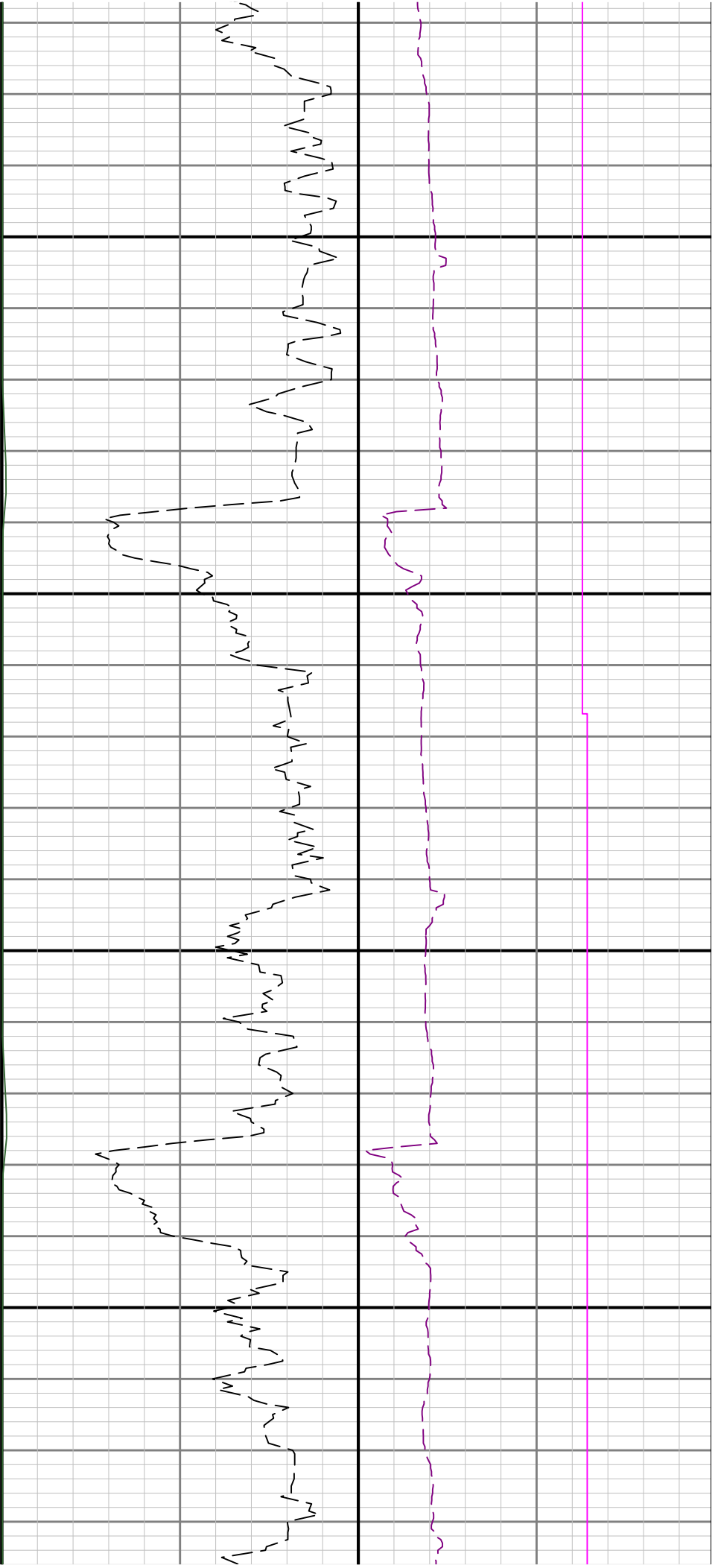
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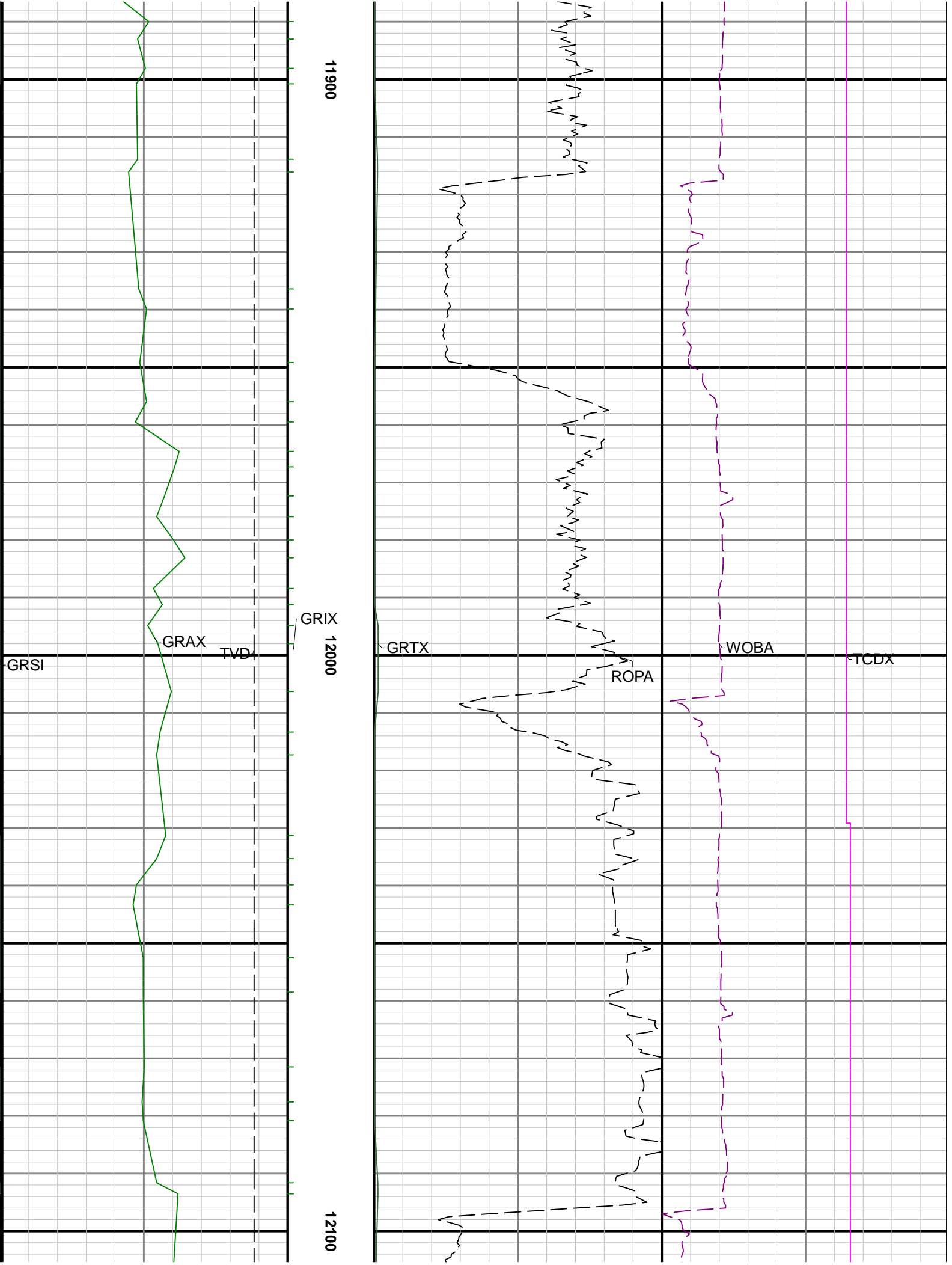
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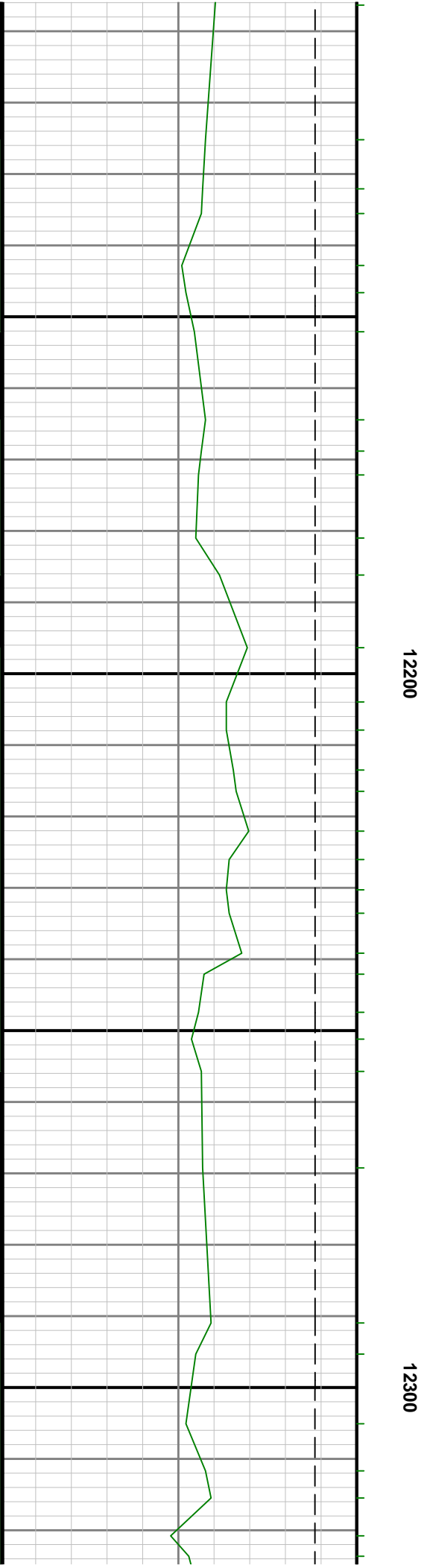
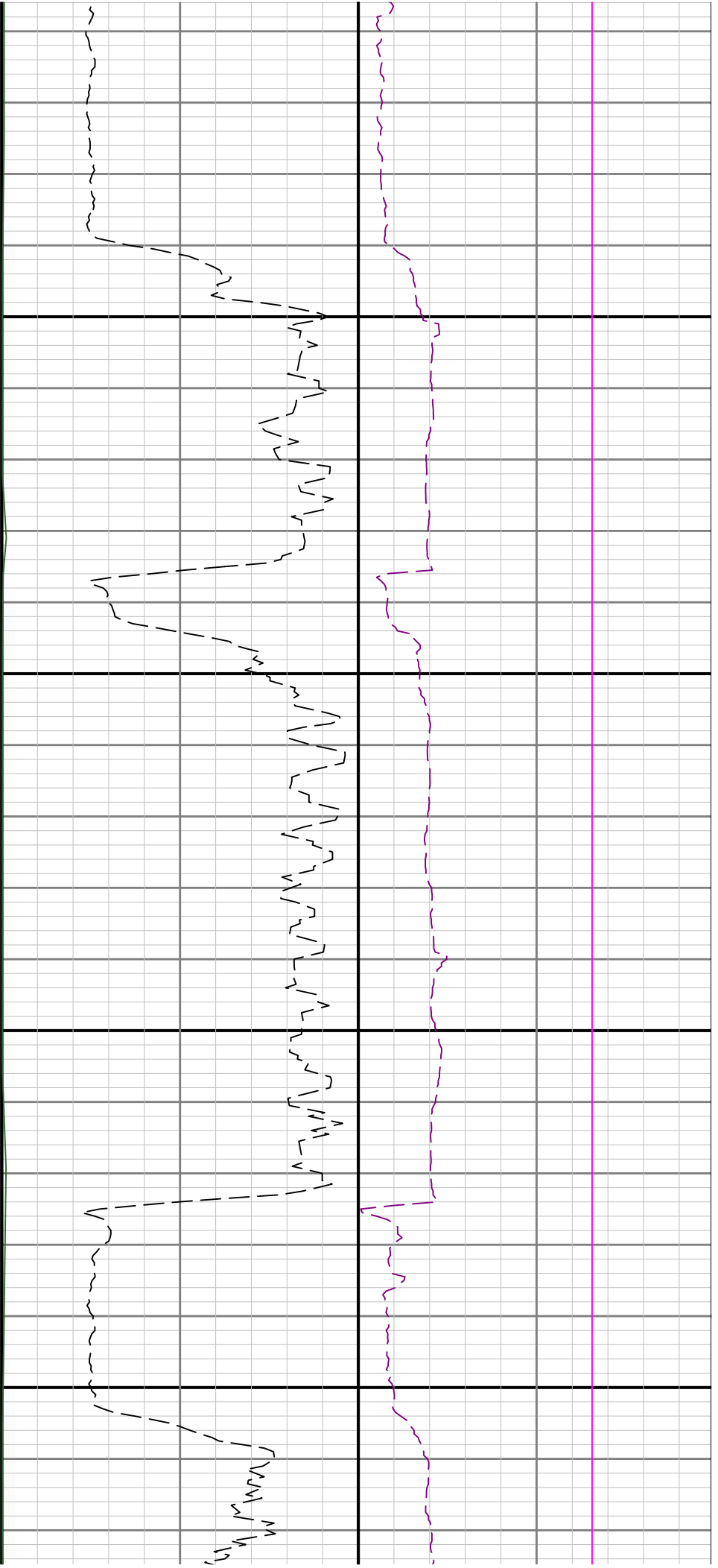


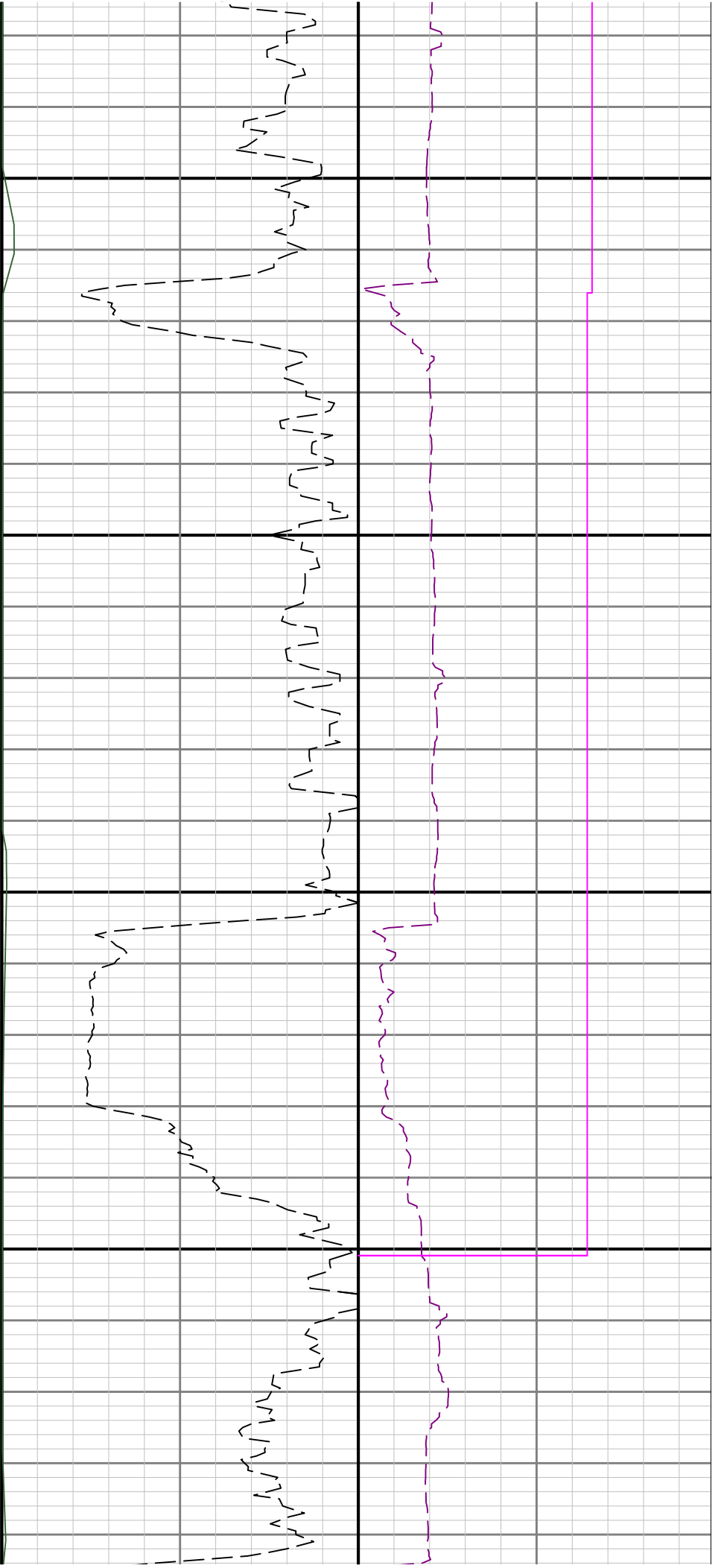






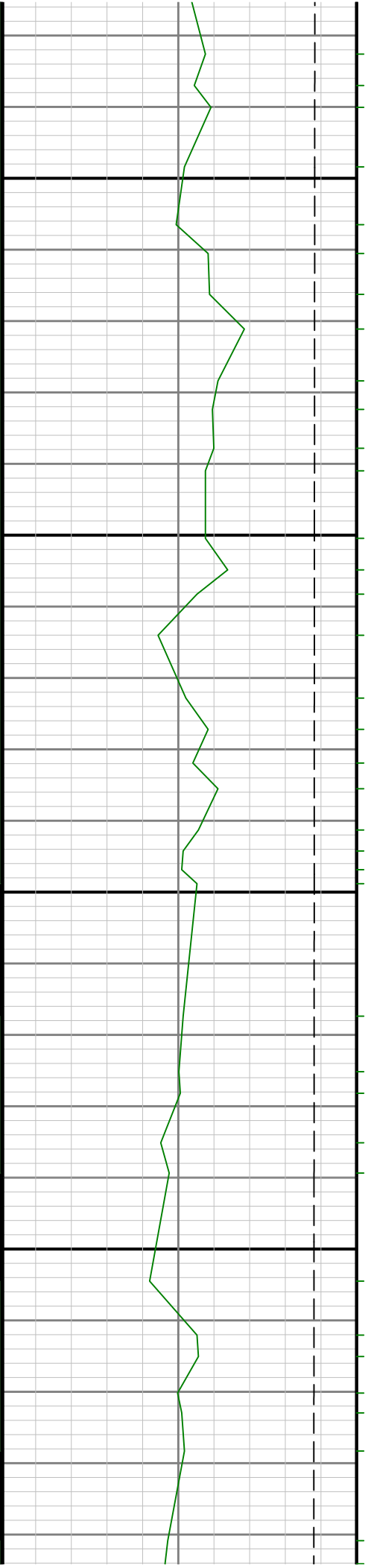


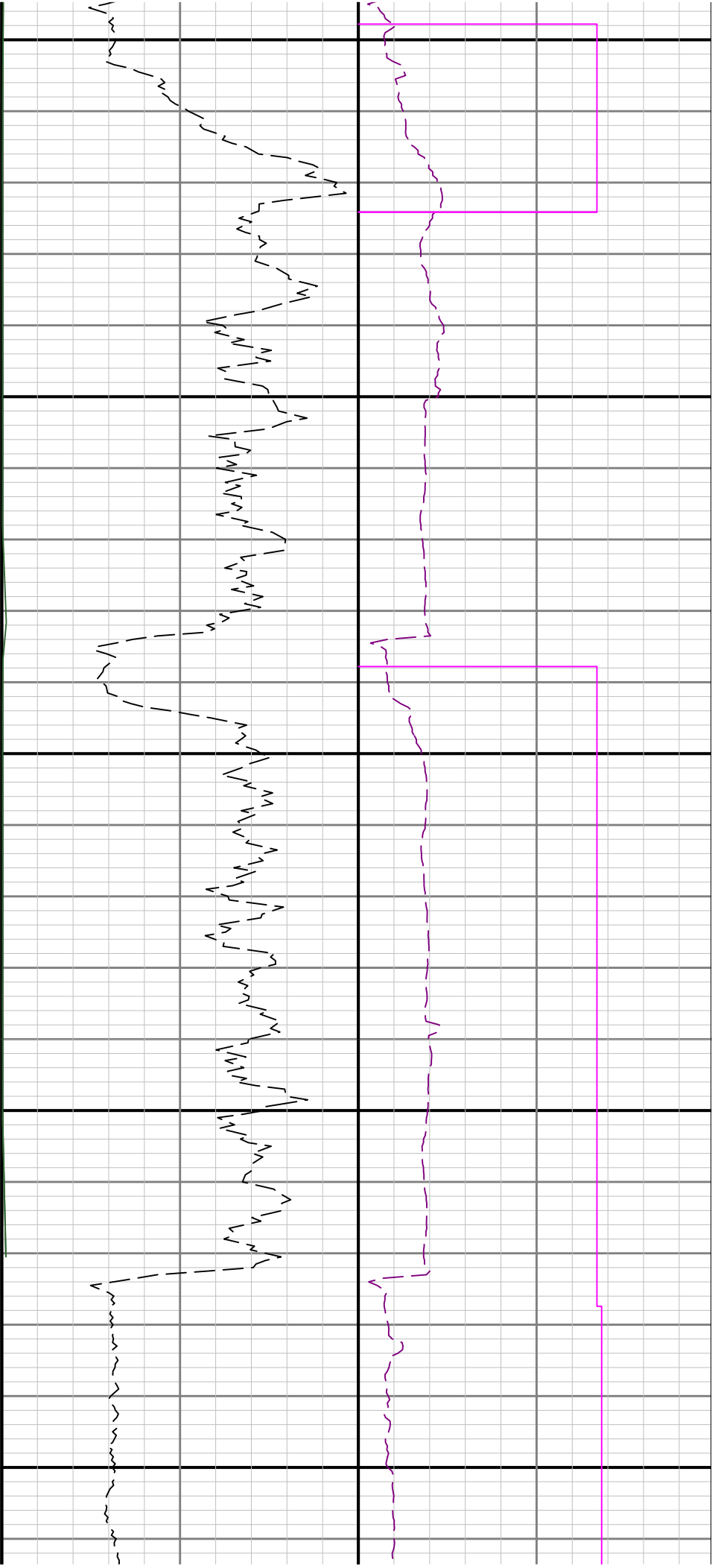




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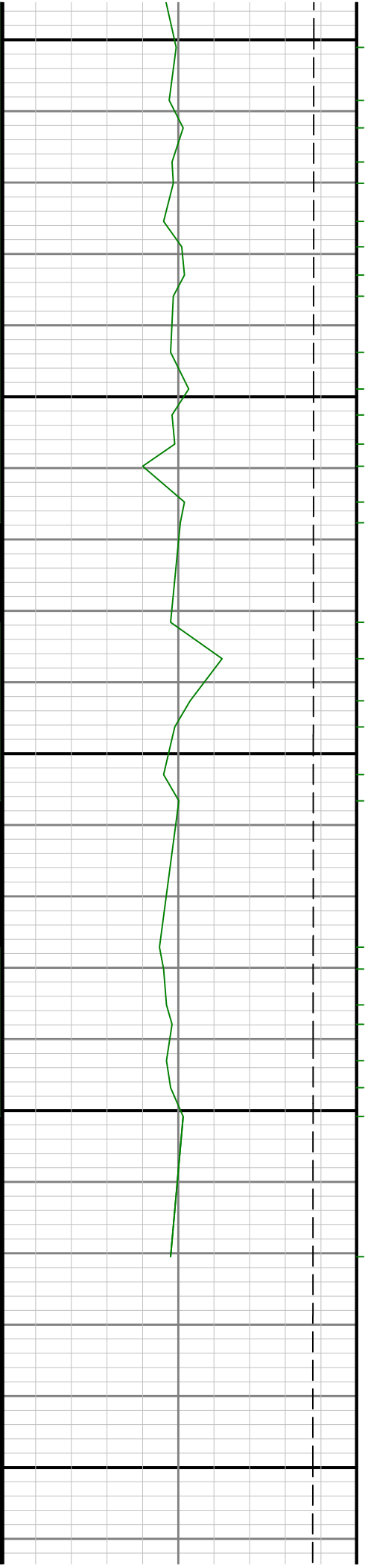
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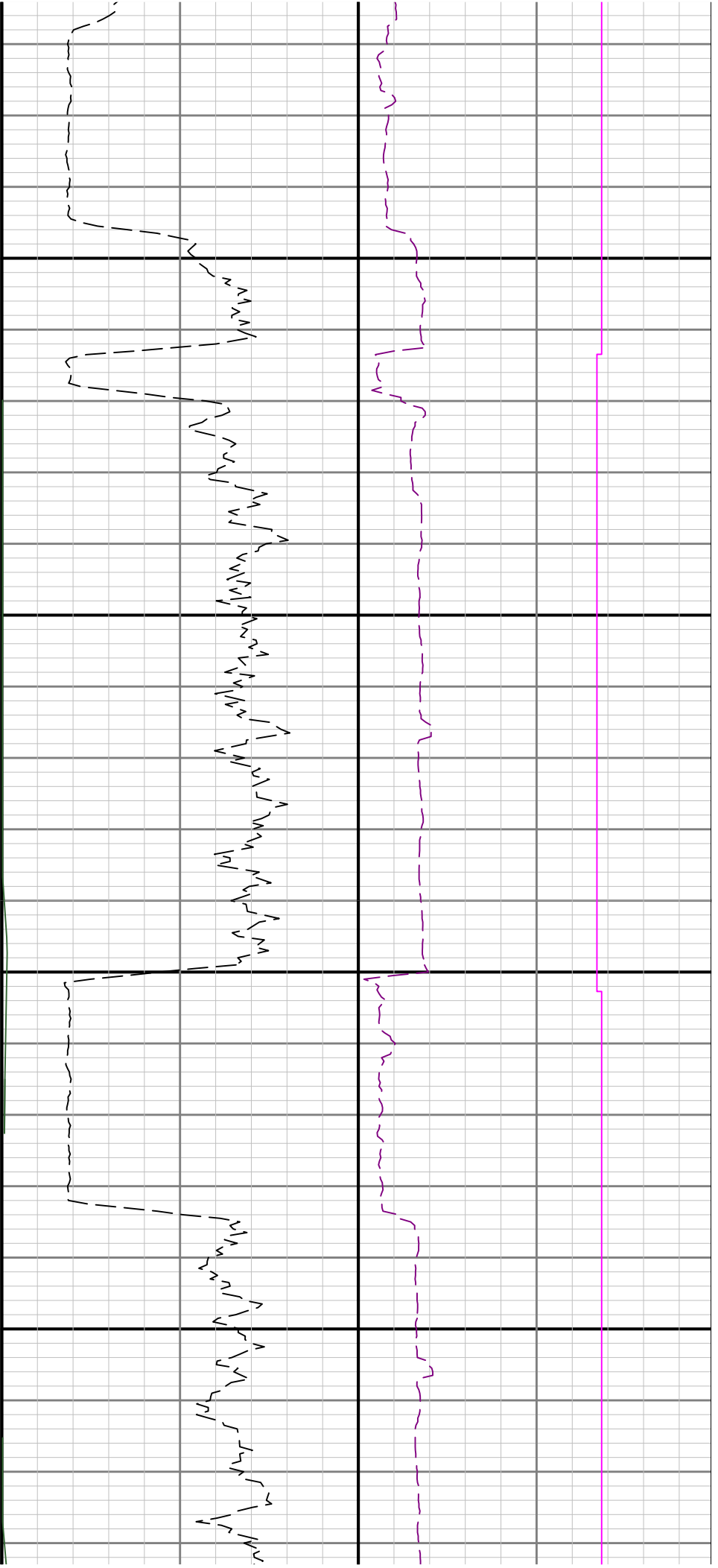




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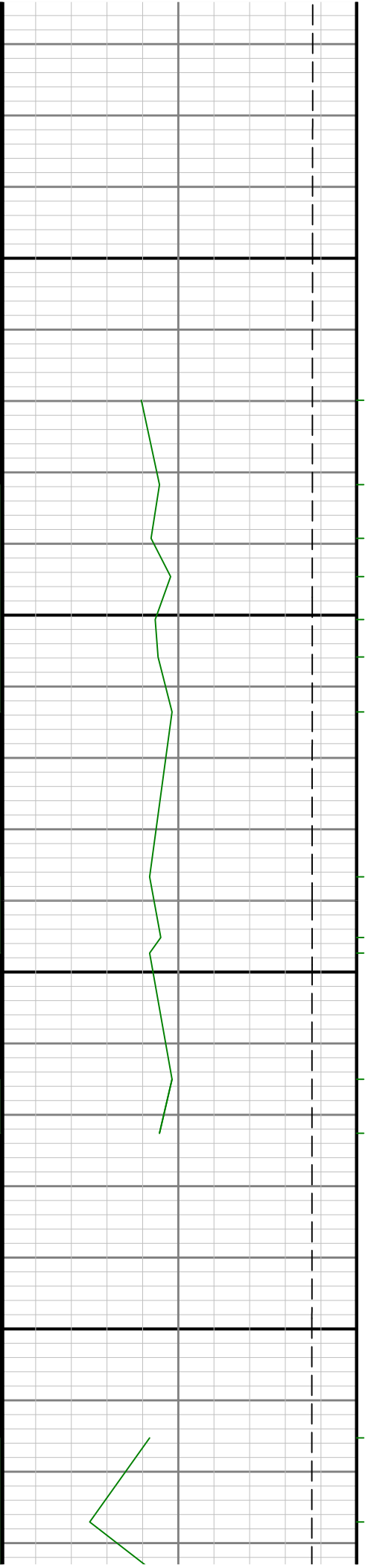
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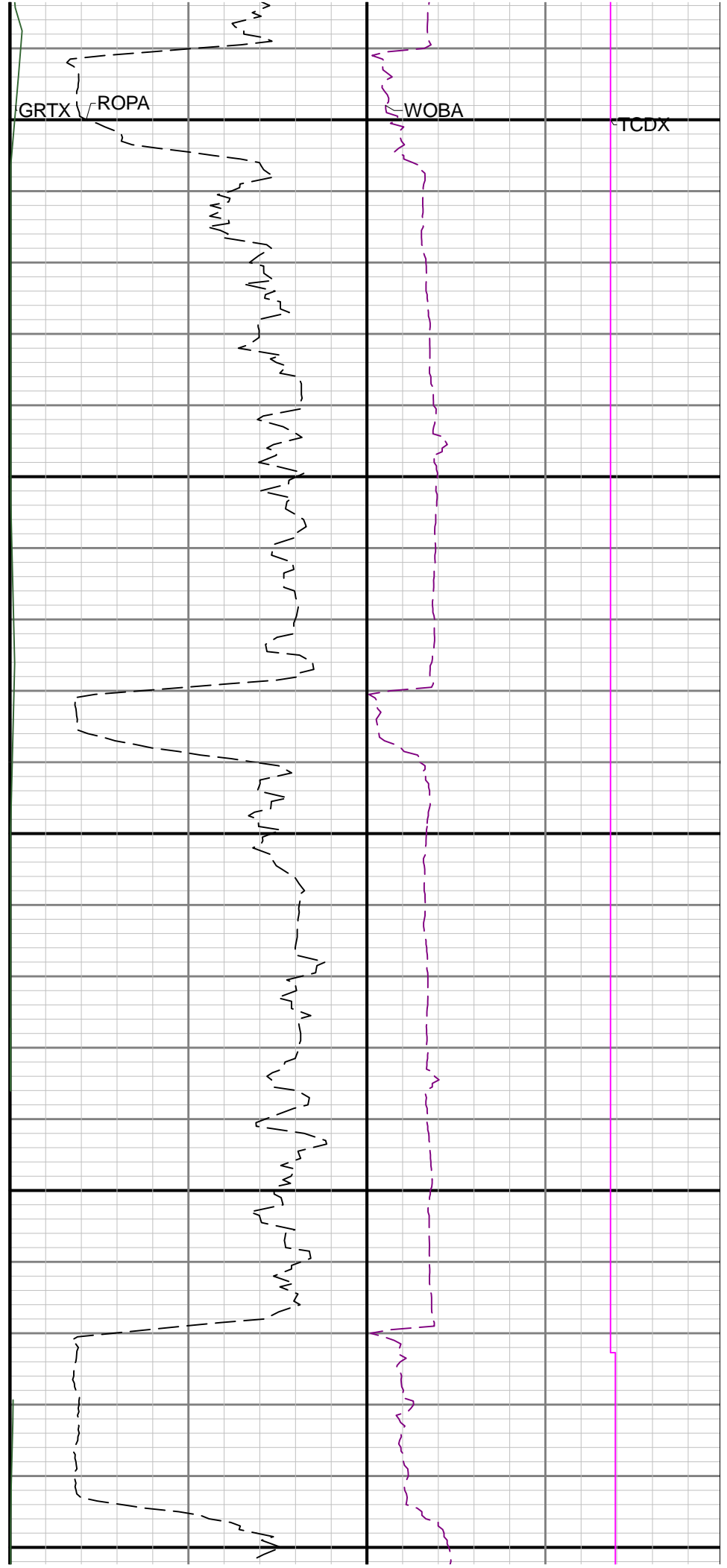
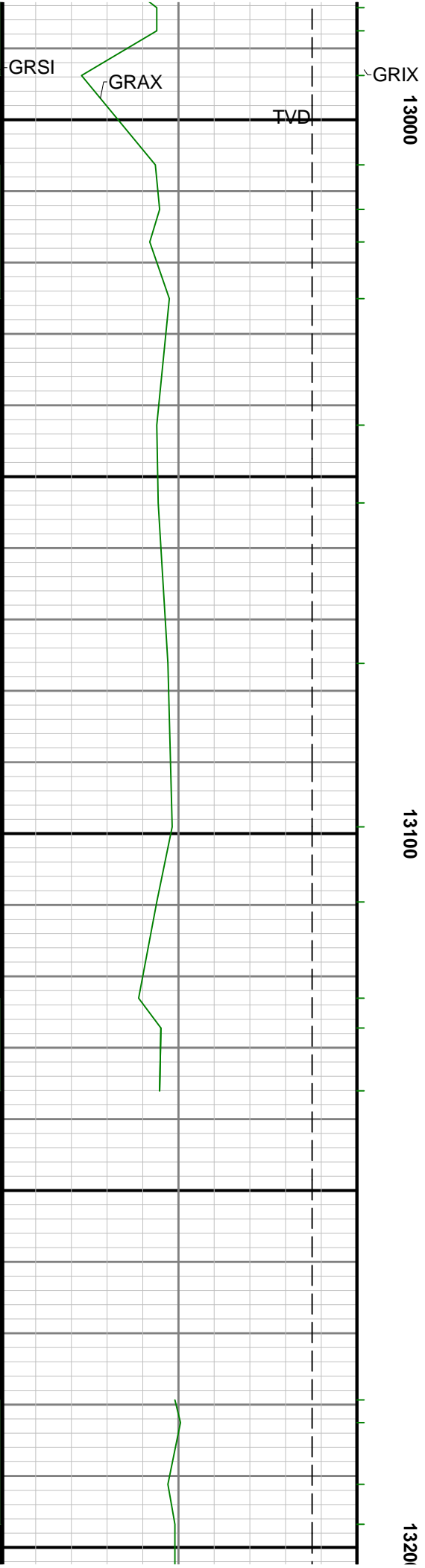




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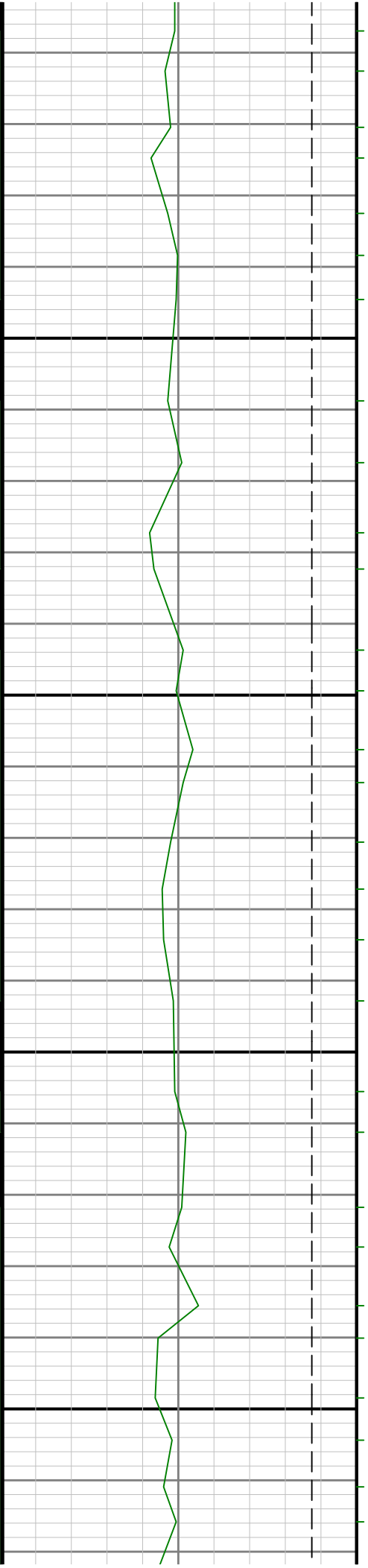


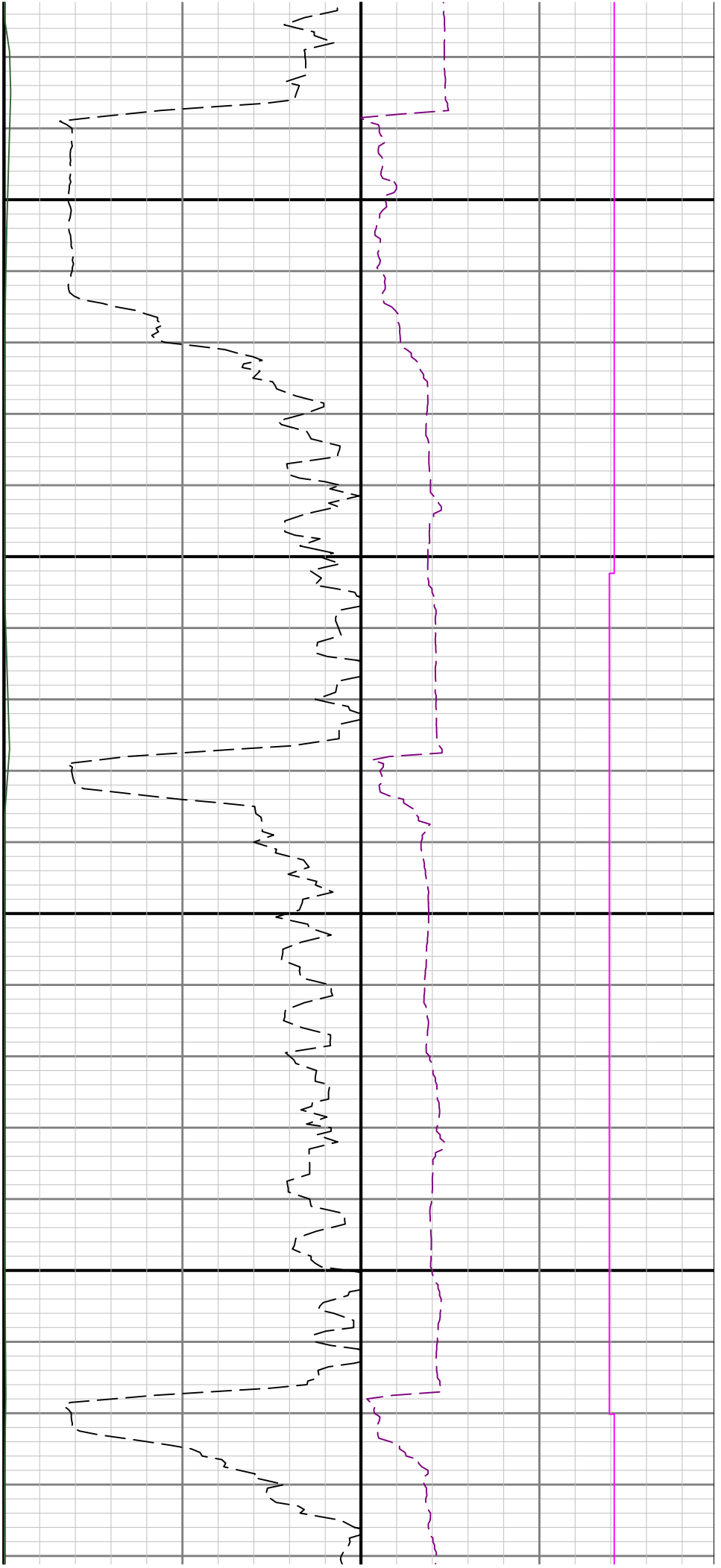




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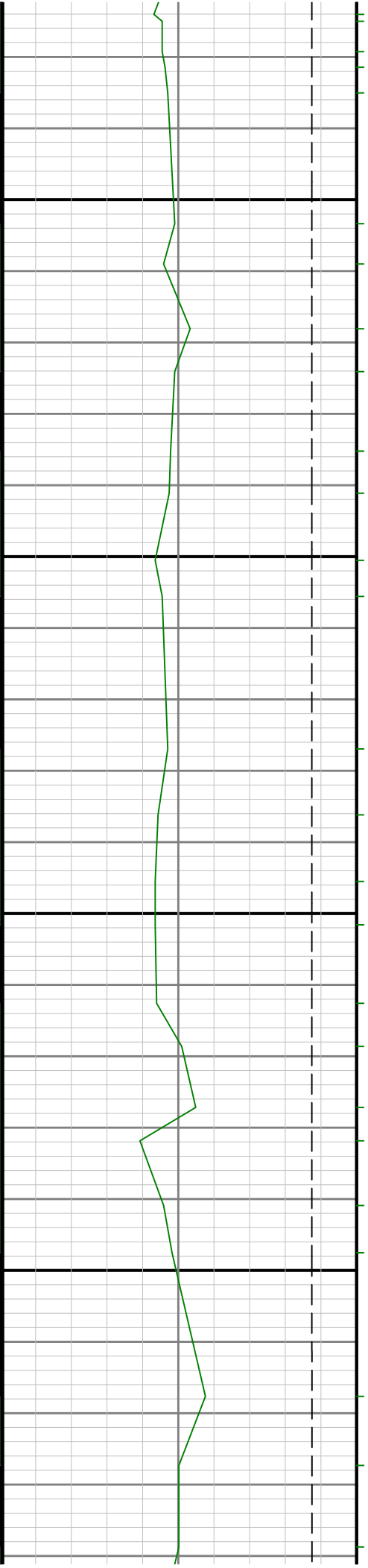
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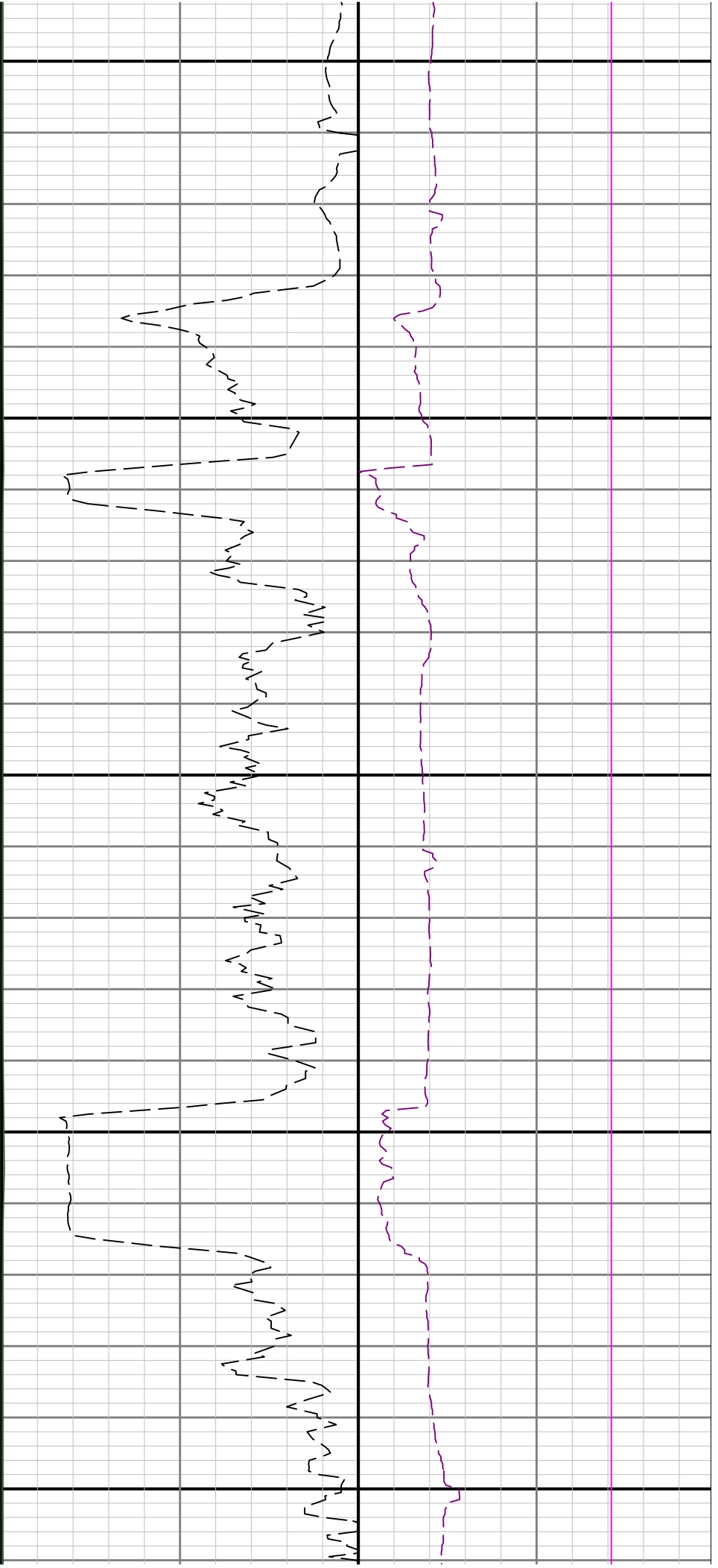




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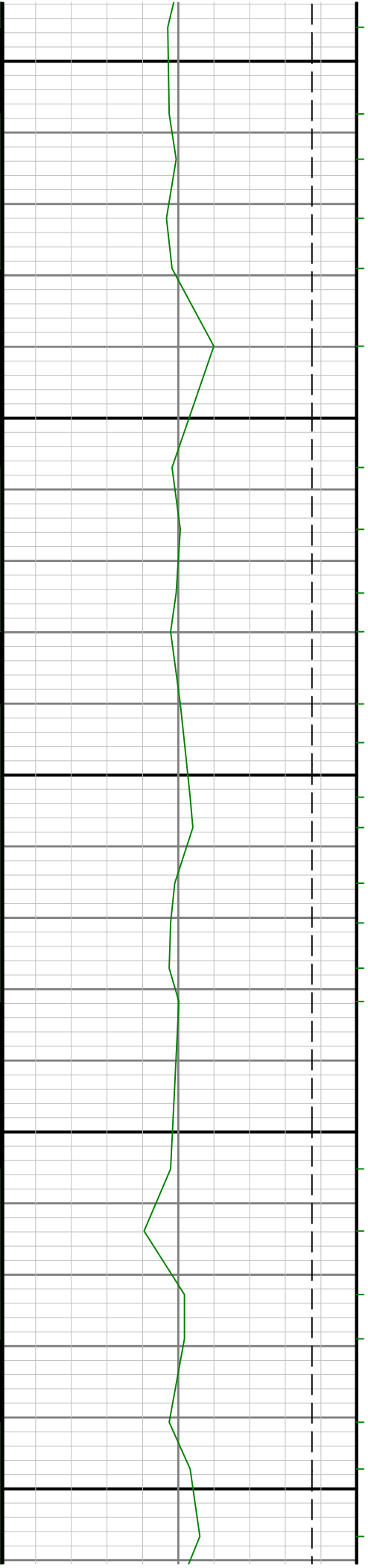
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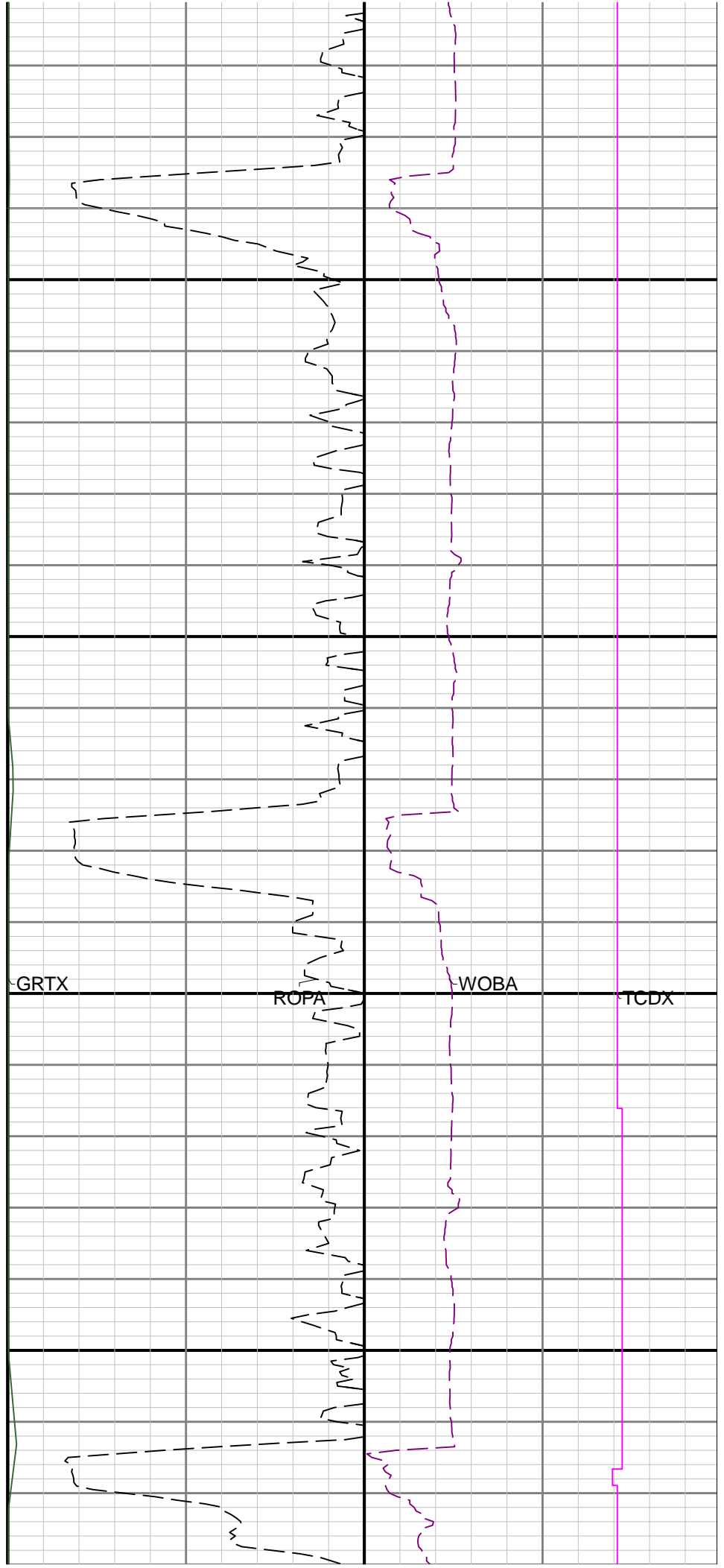
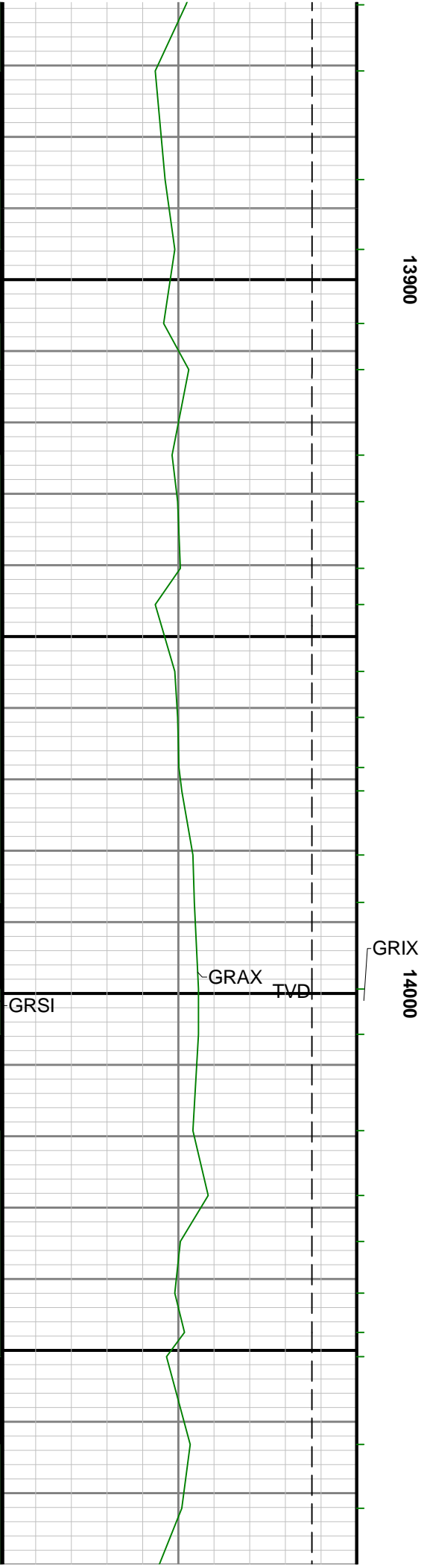




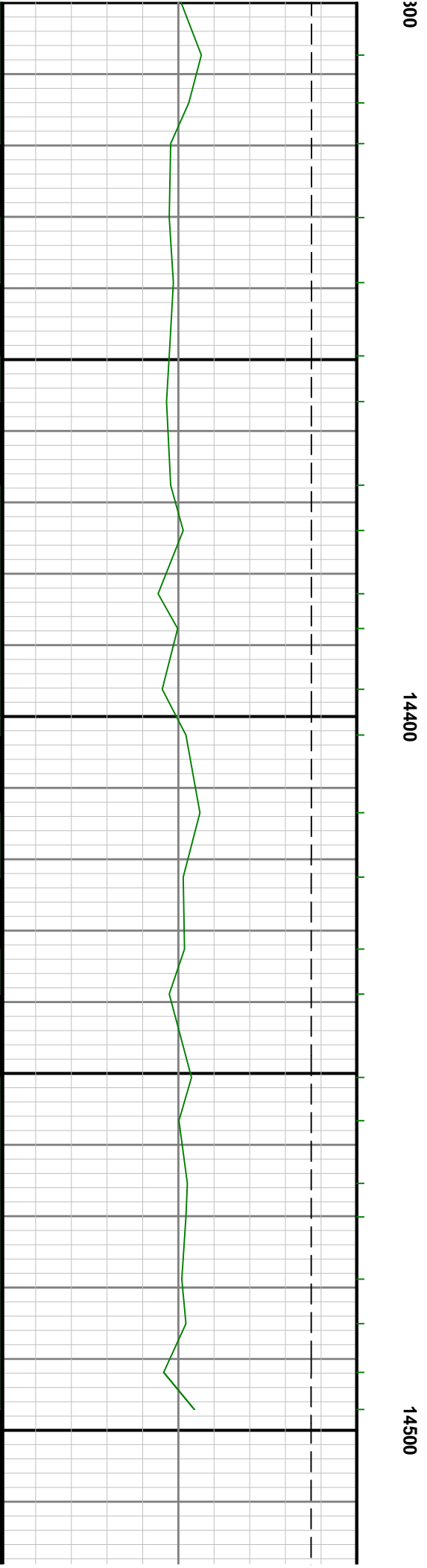
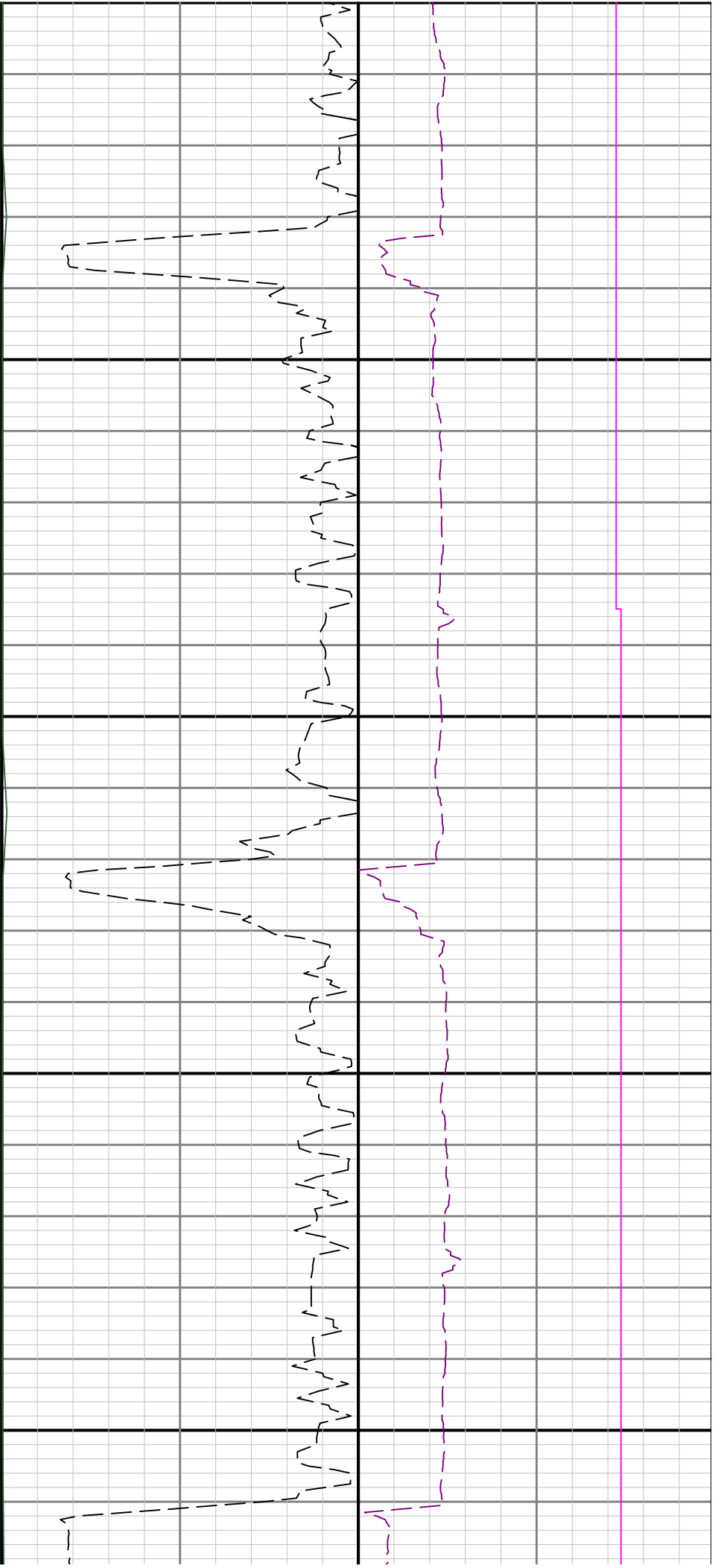
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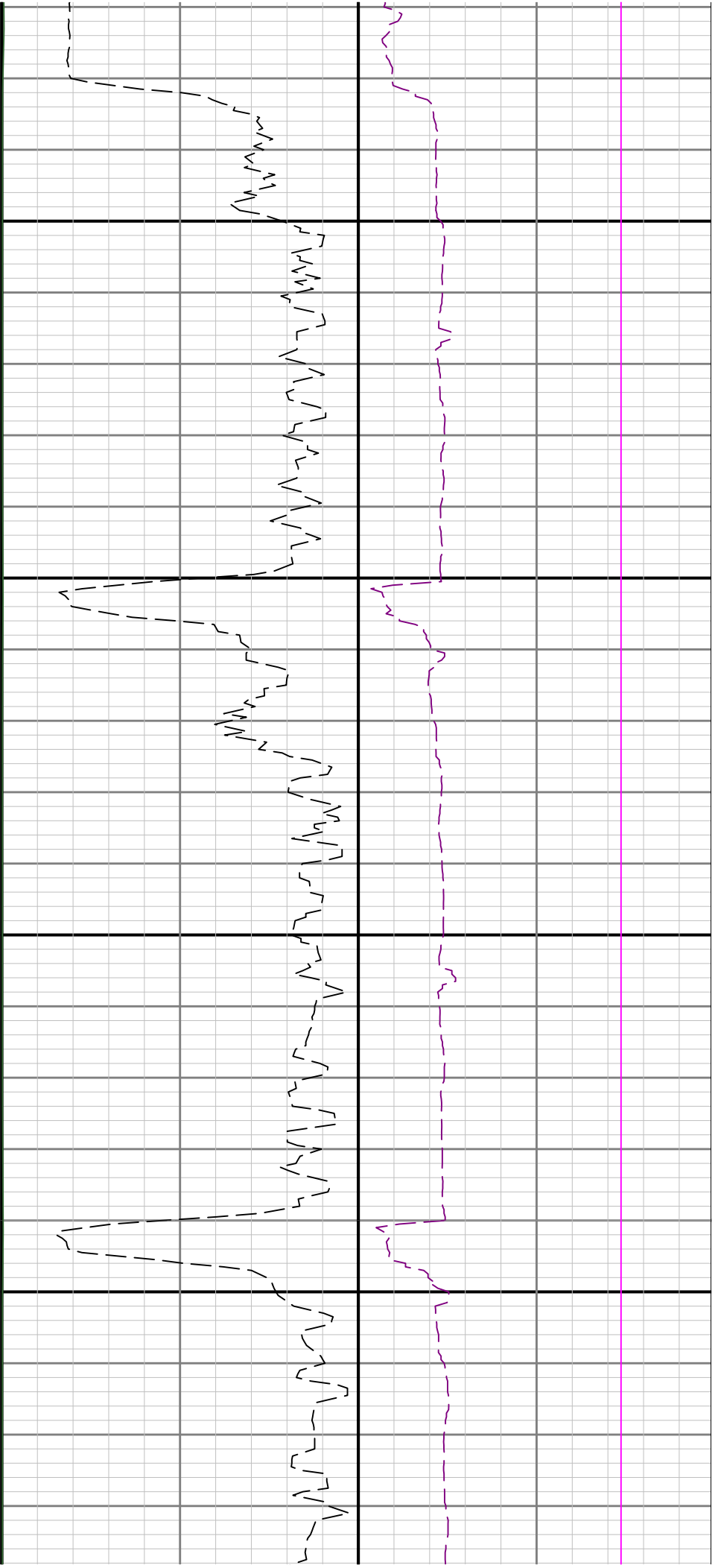
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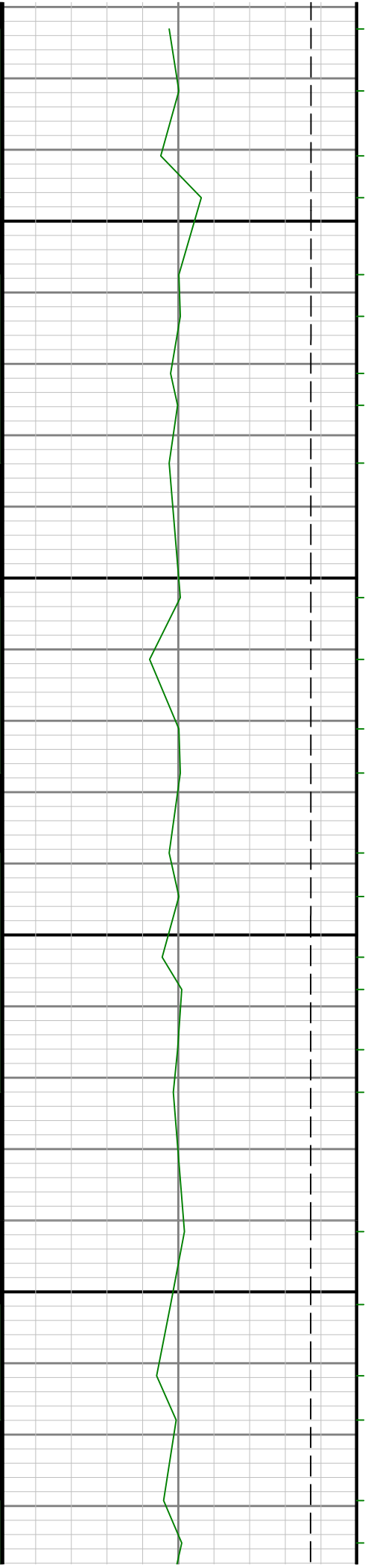


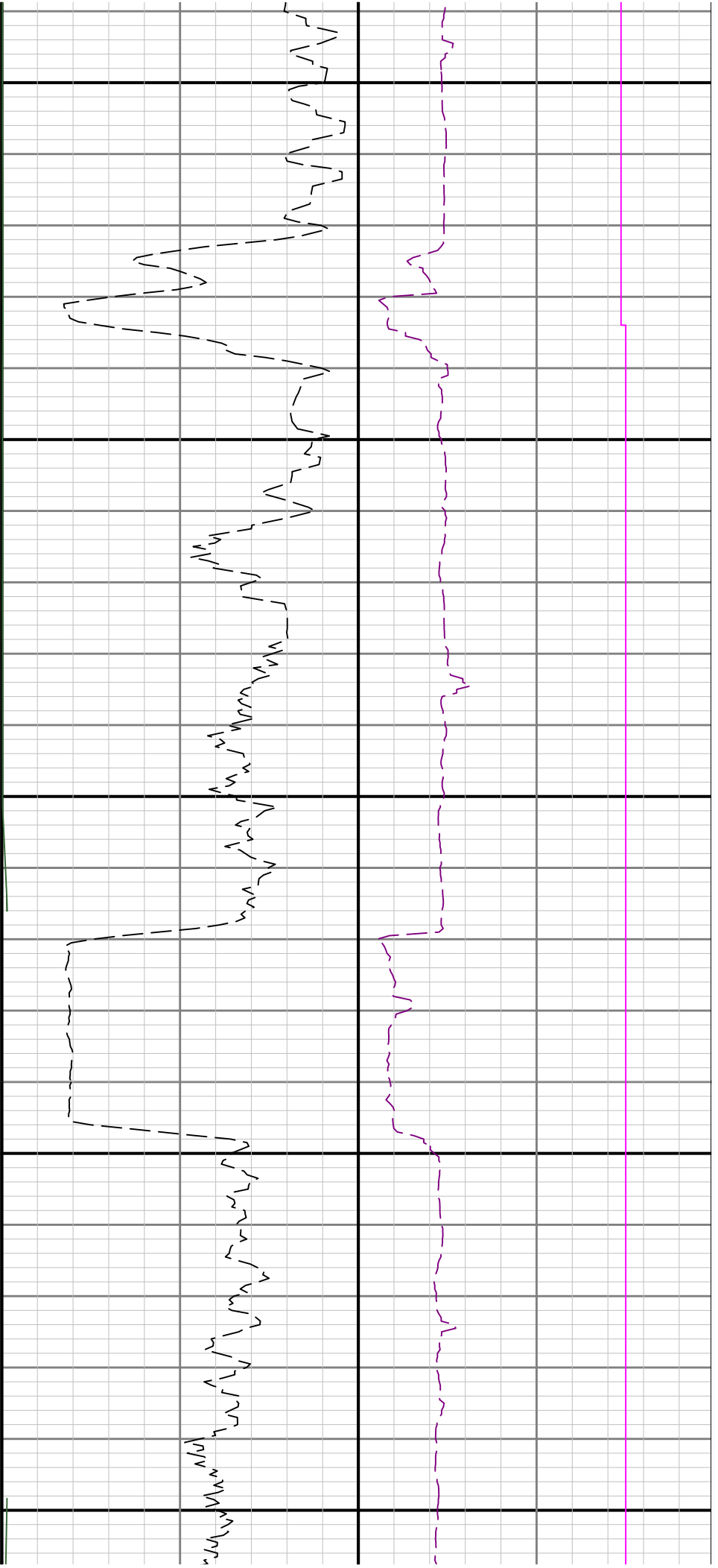




14600

14700





14800

14900



