


REALTIME LOG									
<div><div><div>BAKER HUGHES</div><div>a GE company</div></div><div></div></div> <div>Gamma Ray</div>									
Scale: 1:240		Company: Anadarko							
Measured Depth		Well: JDB 15-11HZ							
		Field: Wattenburg							
Depth Reference:		County: Weld		Country: United States					
Driller's Depth		State: Colorado							
Status: Final Print		Surface Location: Latitude: 040° 02' 43.170" N Longitude: 104° 45' 27.684" W				Other Services: Directional			
API No: 051234921700									
Job ID: 109810388		SEC: 15 TWN: 1N RGE: 66W							
Permanent Datum (P.D.): Mean Sea Level		Elevation: Above P.D.: 5170.00 ft		Elev. KB: 5170.00 ft		Elev. DF: 5153.00 ft		Elev. GL:	
Log Measured From: Rig Floor									
Dates		Interval		Magnetic Field Reference					
From: 2019-07-14		Drilled (ft)		Logged (ft)		Azi Reference North: True		Dip Angle: (deg) 66.37	
To: 2019-07-19		Top: 1848.00		Top: 1816.00		Total Magnetic Field Strength: (nT)		52343	
Spud: 2019-07-14		Bottom: 18423.00		Bottom: 18376.00		Mag to Reference North Correction: (deg)		7.88	
Borehole Record									
Casing Record									
Hole Size (in)		From (ft)		To (ft)		Size (in)		Weight (lb/ft)	
13.500		17.00		1848.00		9.625		25.00	
7.875		1848.00		18423.00					
Mud Record									
Deviation Record									
Type		From (ft)		To (ft)		Hole Size (in)		Interval (ft)	
Diesel-Oil Based Mud		1848.00		18423.00		7.875		16575.00	
								16.52   112.50	
								90.38   355.72	
Acquisition System									
Cadence		RT 5.2		Software Version		Rig: Aktia 522		Other	
Pilot Studio		5.2.8472.1				Contractor: Aktia Drilling		Unit: D&E	
						District: RMA			

Service and Tool Mnemonics

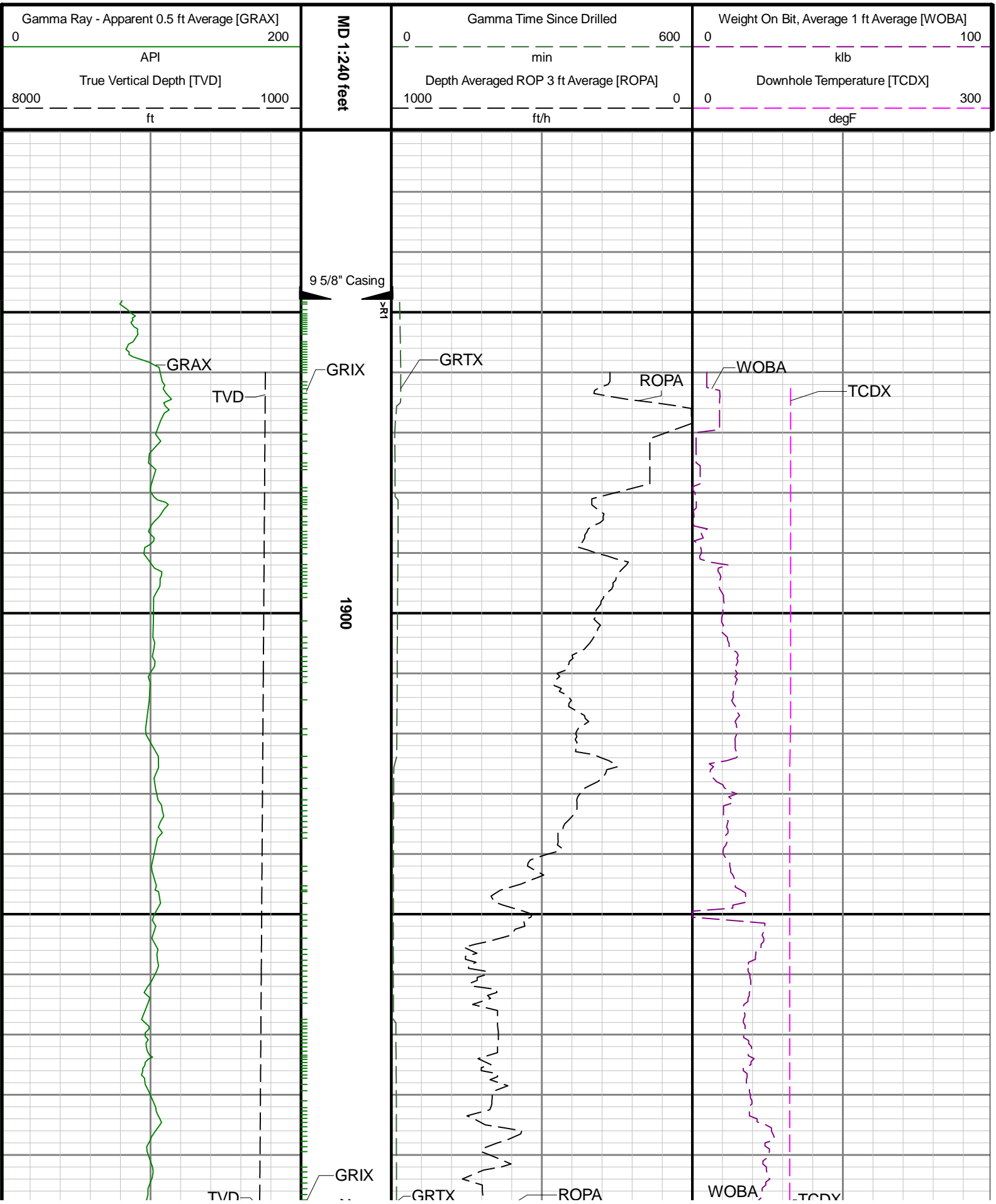
Mnemonic	Name	Description
MWD	EvoOne - Dir Gamma	EvoOne

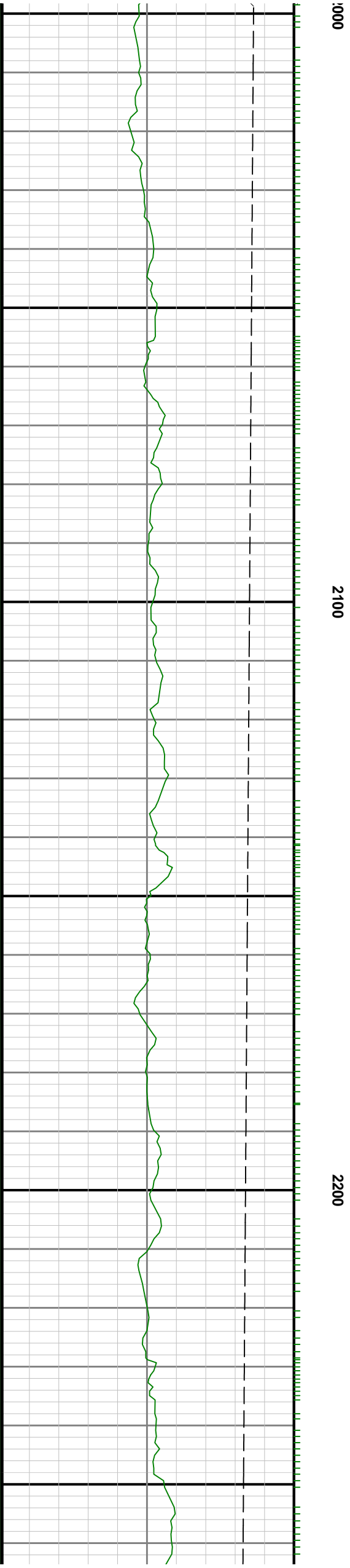
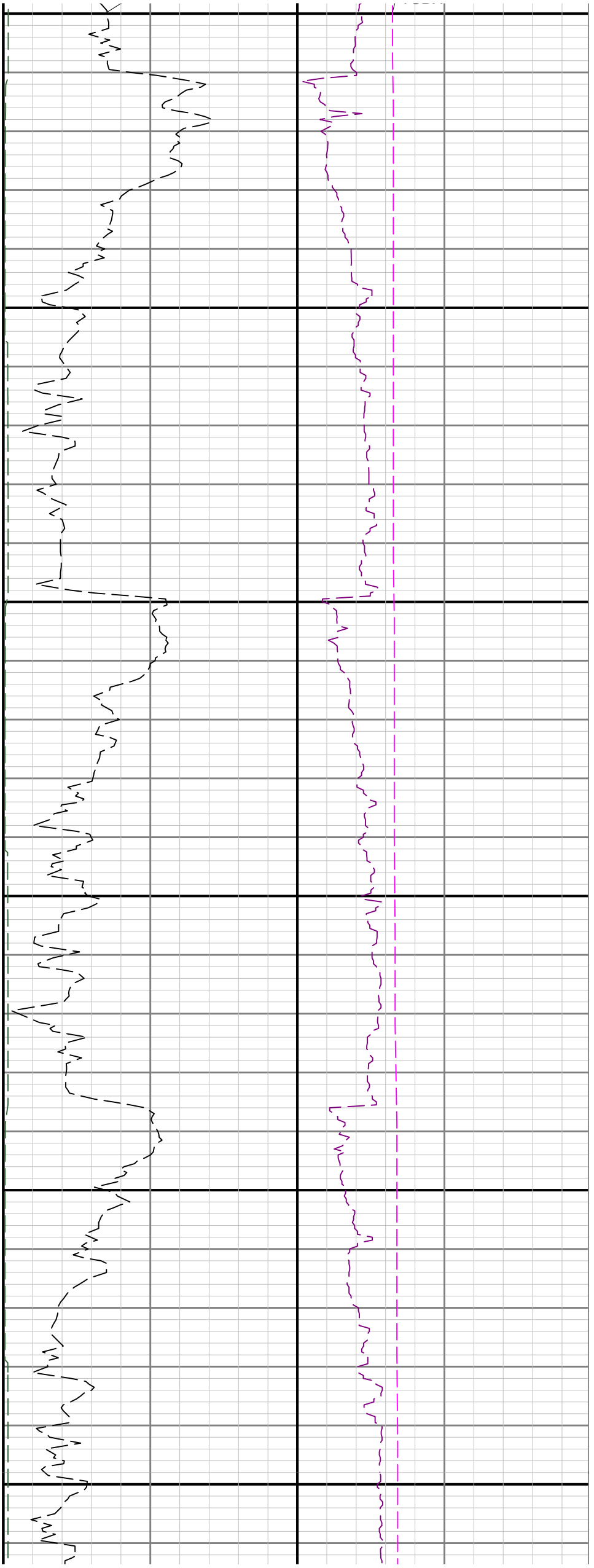
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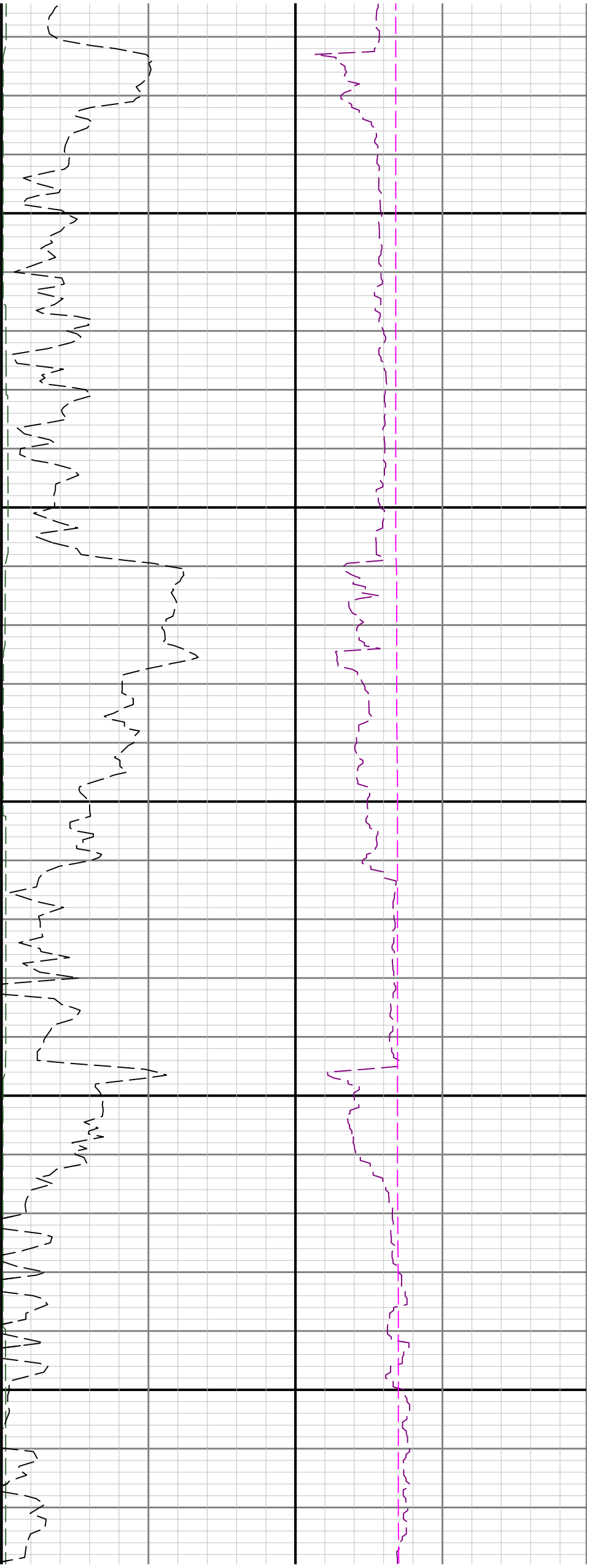
- 1
- Depth measurements were obtained from a depth control system not supplied by Baker Hughes. Due to lack of control by Baker Hughes logging engineers depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to represent logging data.
- 2
- 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.
- 3
- Gamma Ray (GRAX) scale is presented from a 0 to 200 API scale at the request of the customer.
- 4
- Baker Hughes runs 1, 2, and 3 utilized 6 1/2 inch Evo One services (Directional and Gamma Ray) behind a 7 7/8 inch bit and steerable assembly from 1848 to 18423 feet MD (1817 to 7679 feet TVD).

Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	10230.00	7.875	2	The interval from 10215 to 10258 feet MD (7660 feet TVD) was logged 11.75 hours after tripping out of hole for tool failure.
2	10600.00	7.875	2	The interval from 10561 to 10652 feet MD (7661 feet TVD) was not logged due to surface gear issues.
3	17340.00	7.875	3	The interval from 17334 to 17378 feet MD (7669 feet TVD) was logged 19.9 hours after tripping out of hole for motor failure.
4	18400.00	7.875	2	The interval from 18376 to 18423 feet MD (7679 feet TVD) was not logged due to sensor to bit offset at well TD.



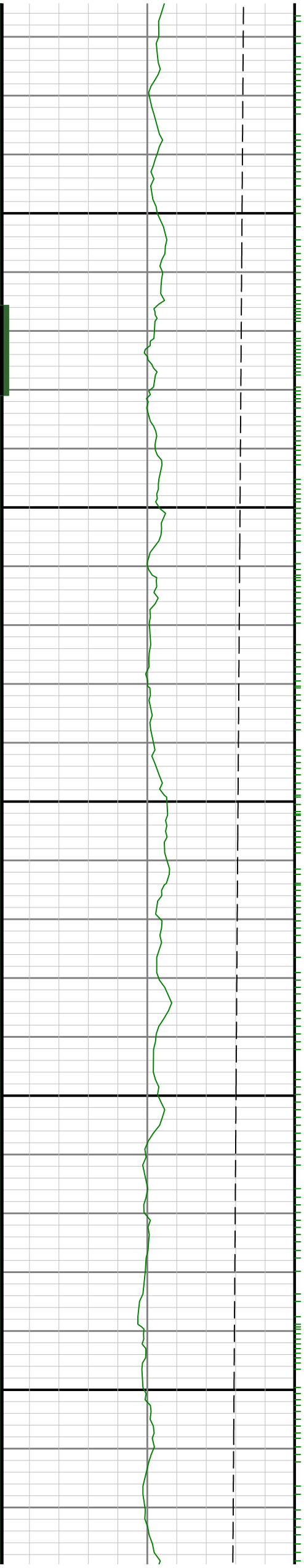


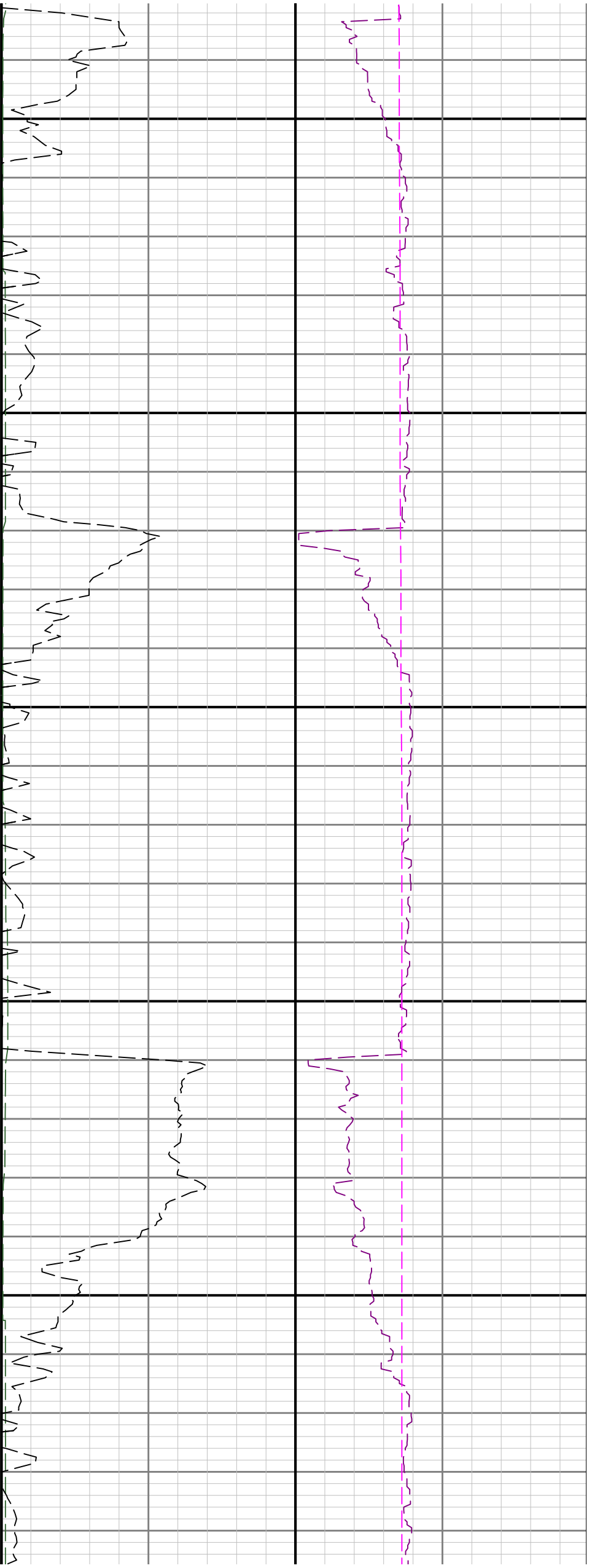


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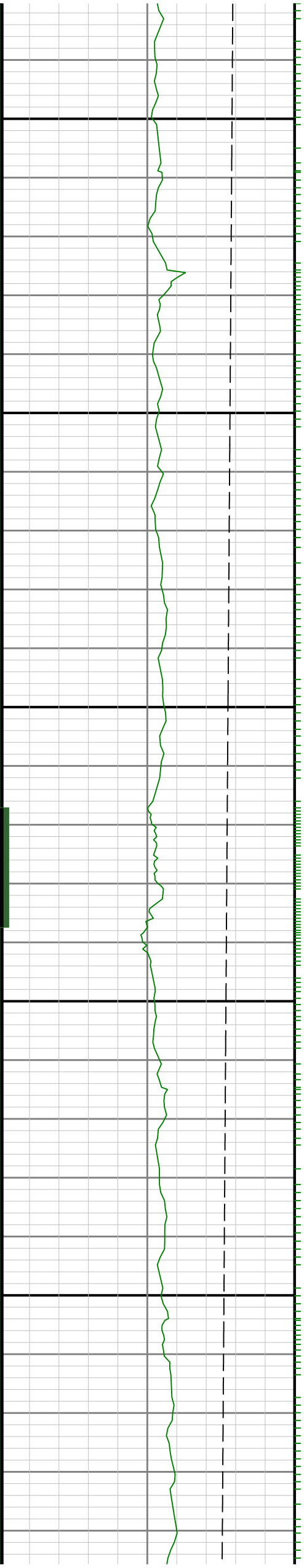
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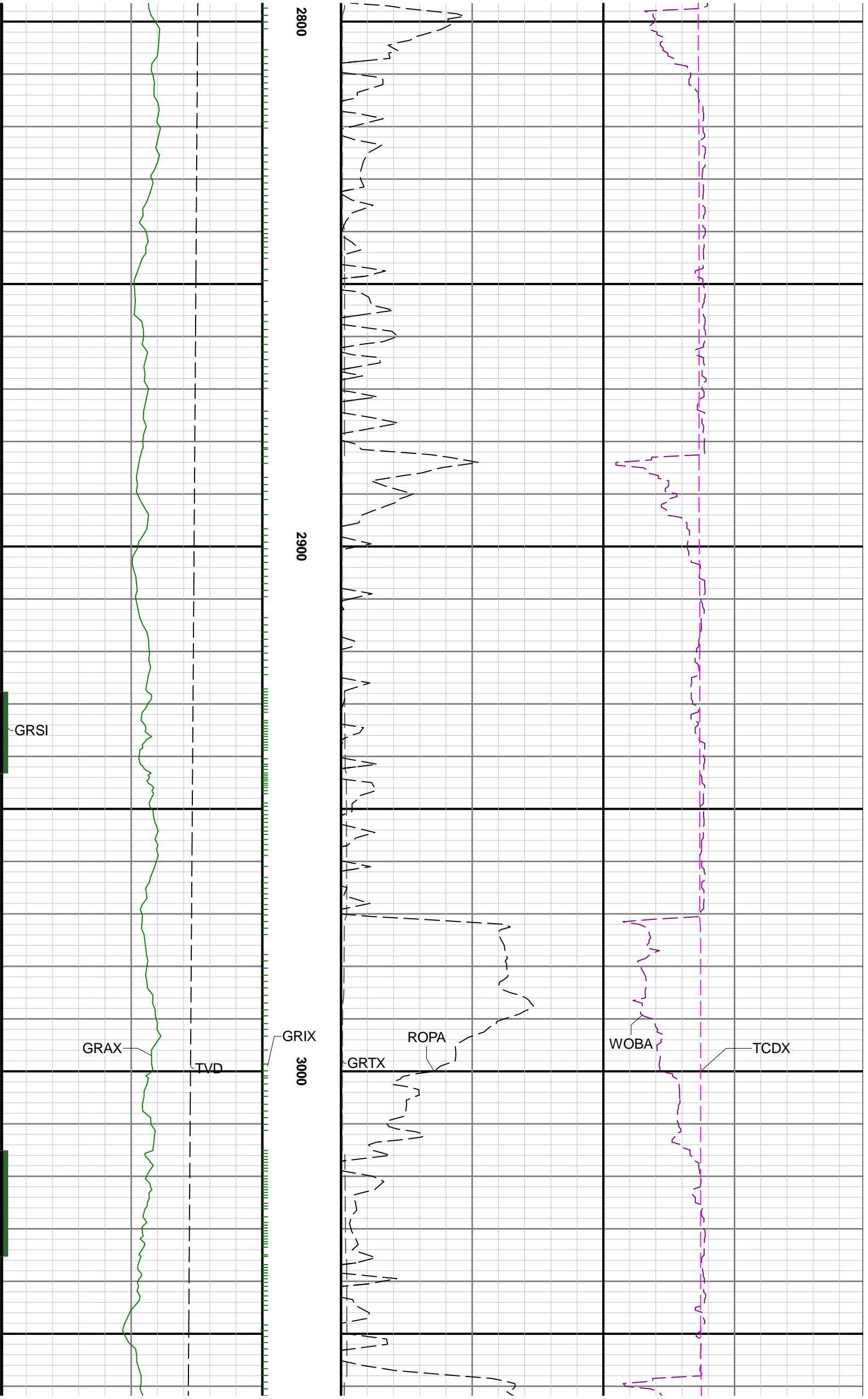


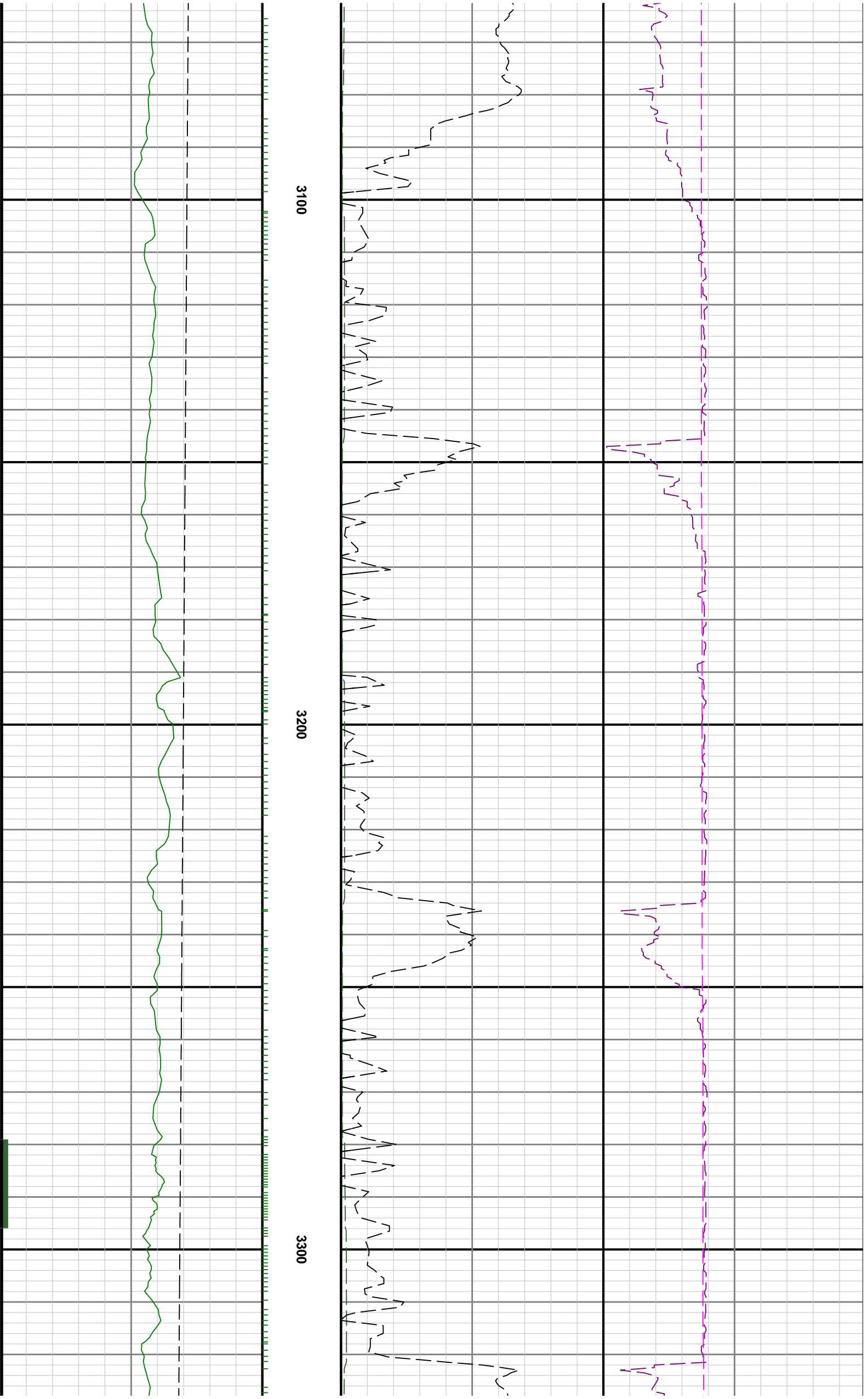


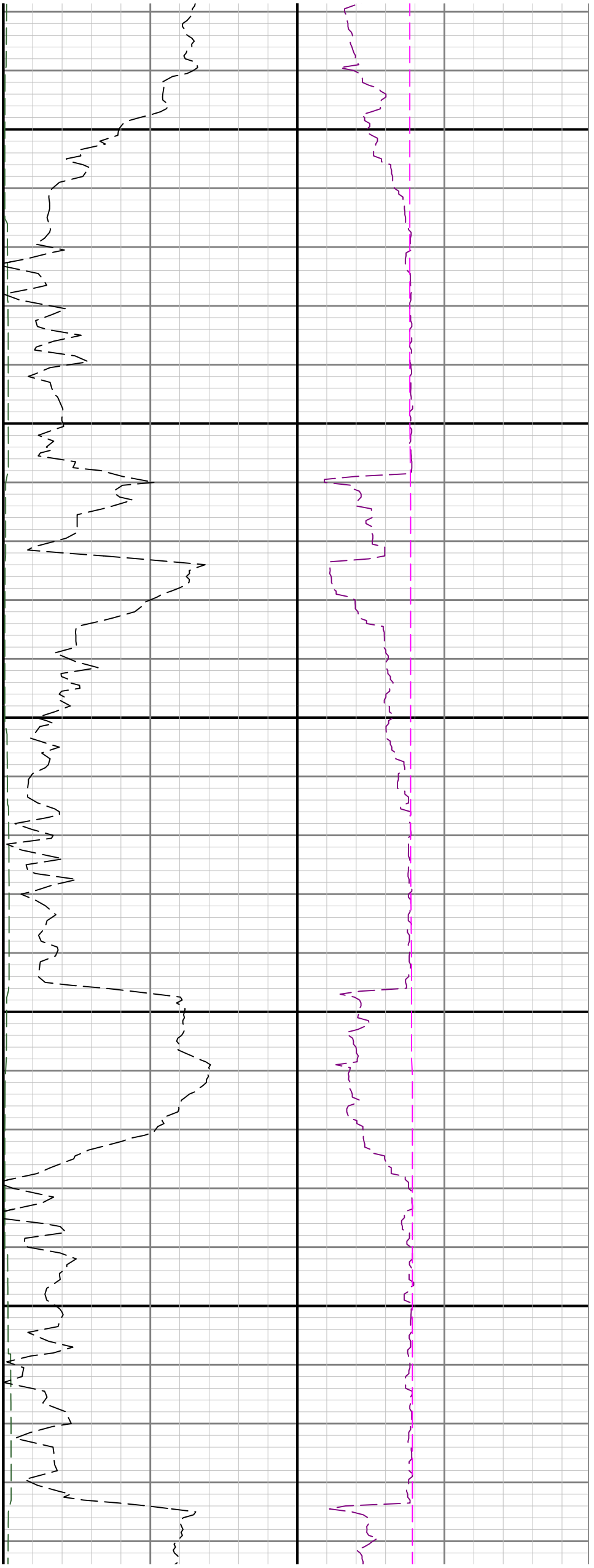
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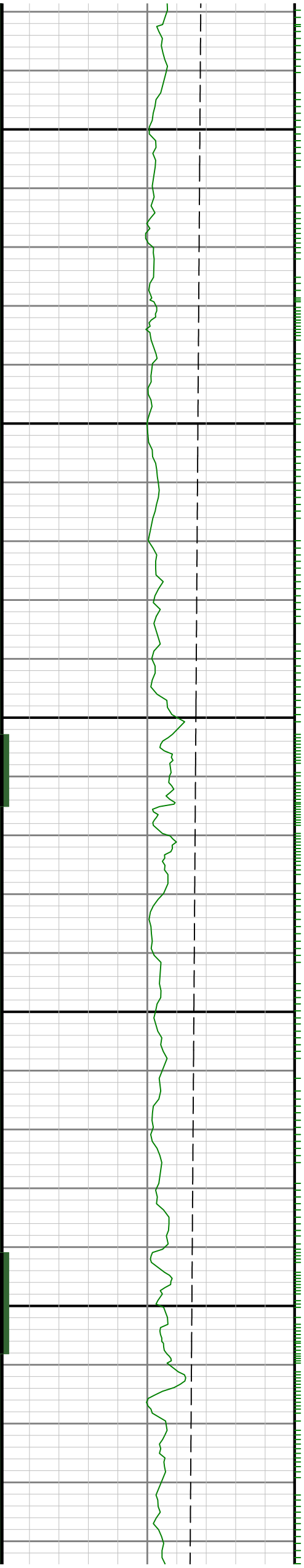




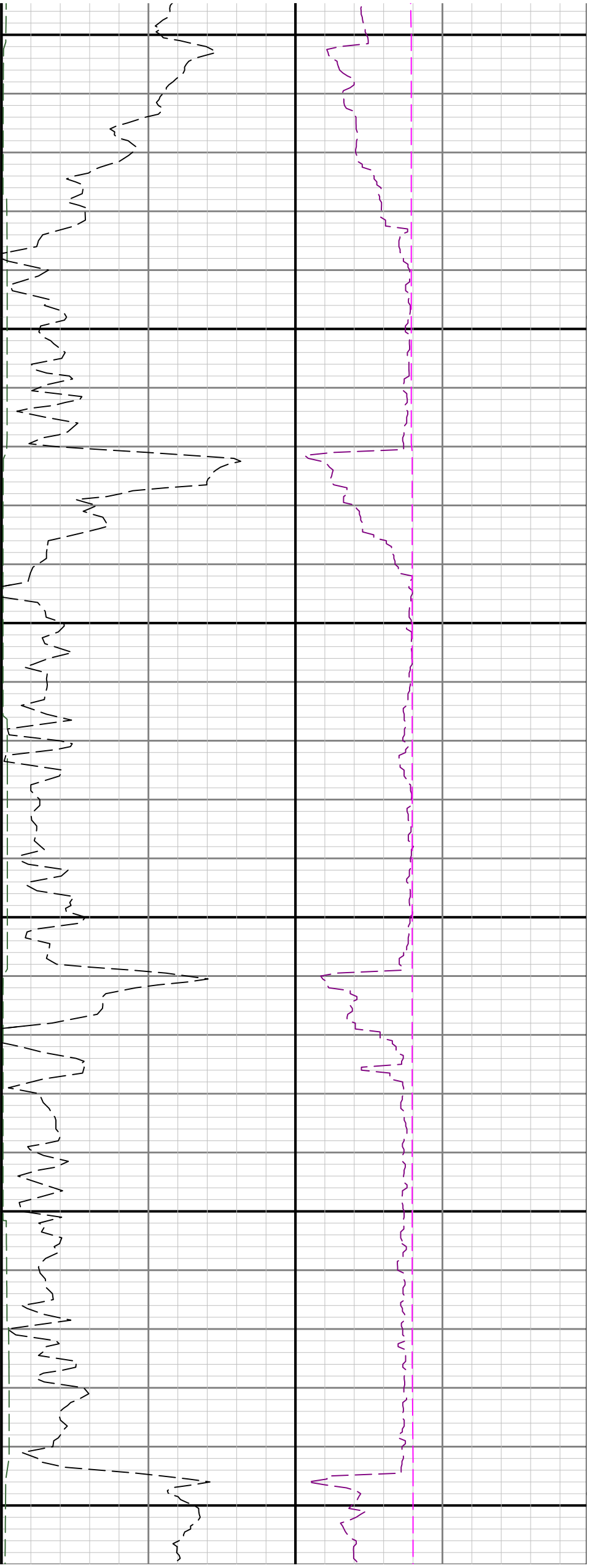


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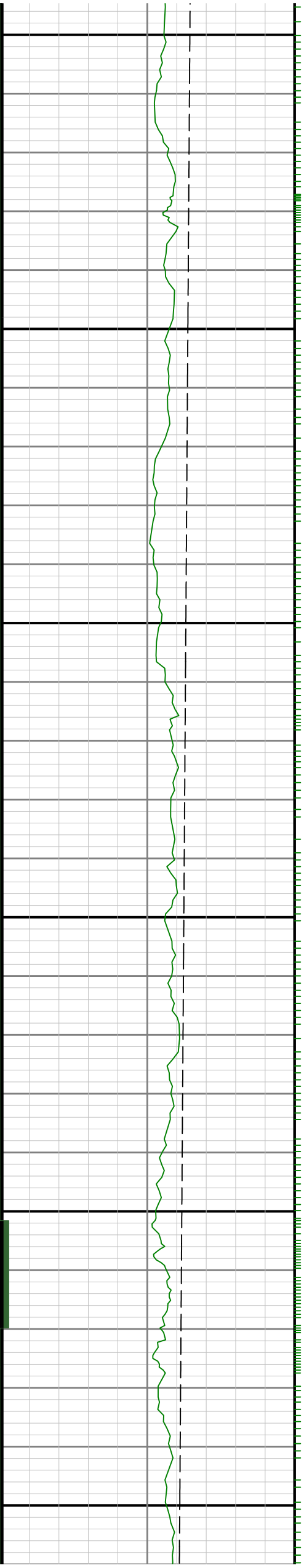


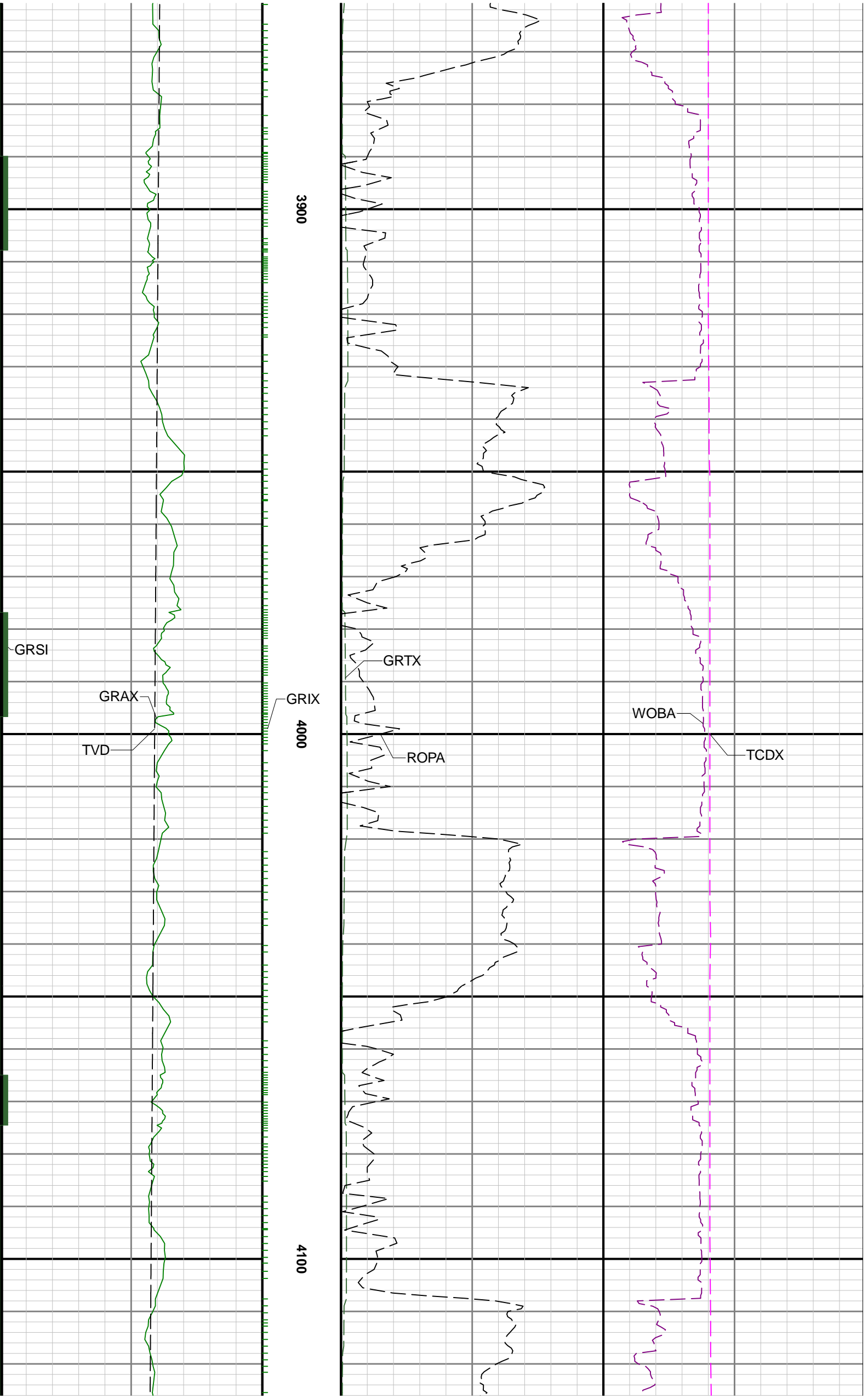


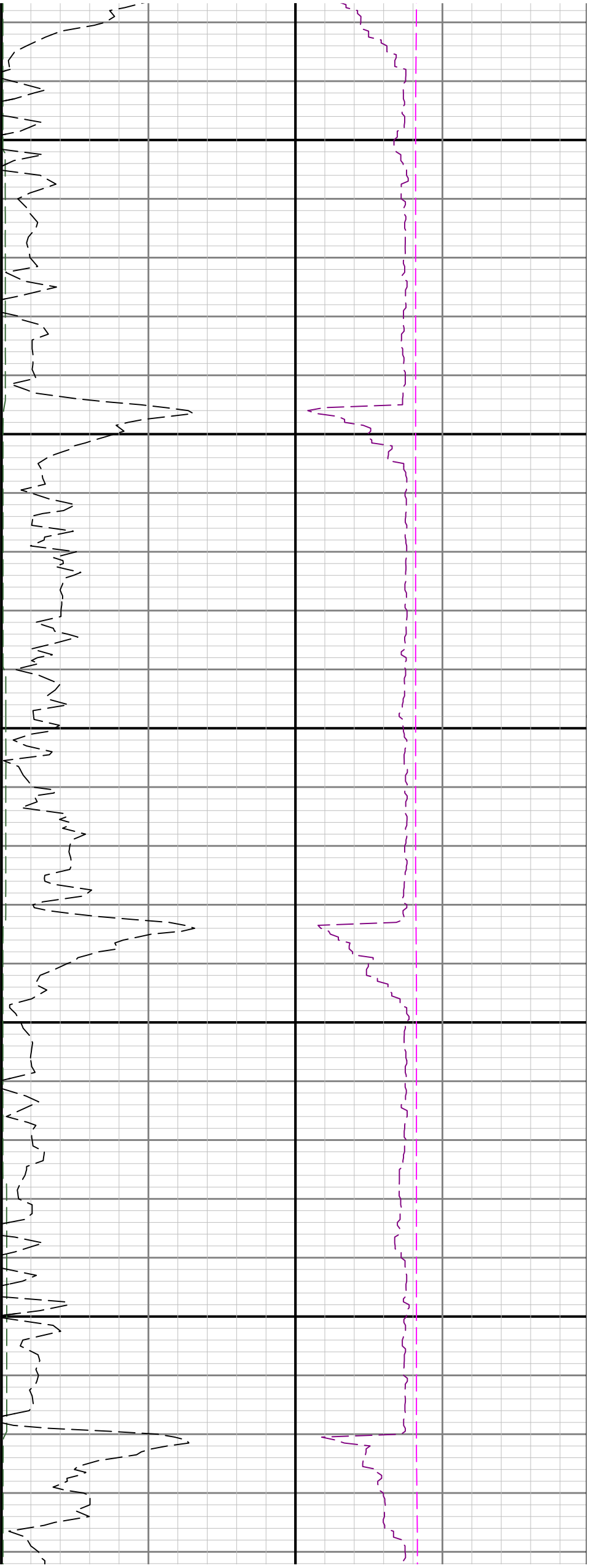
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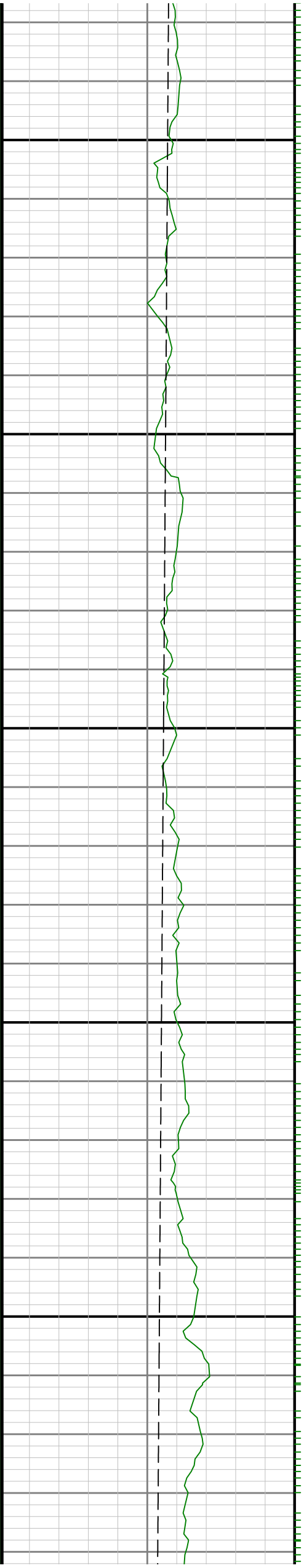


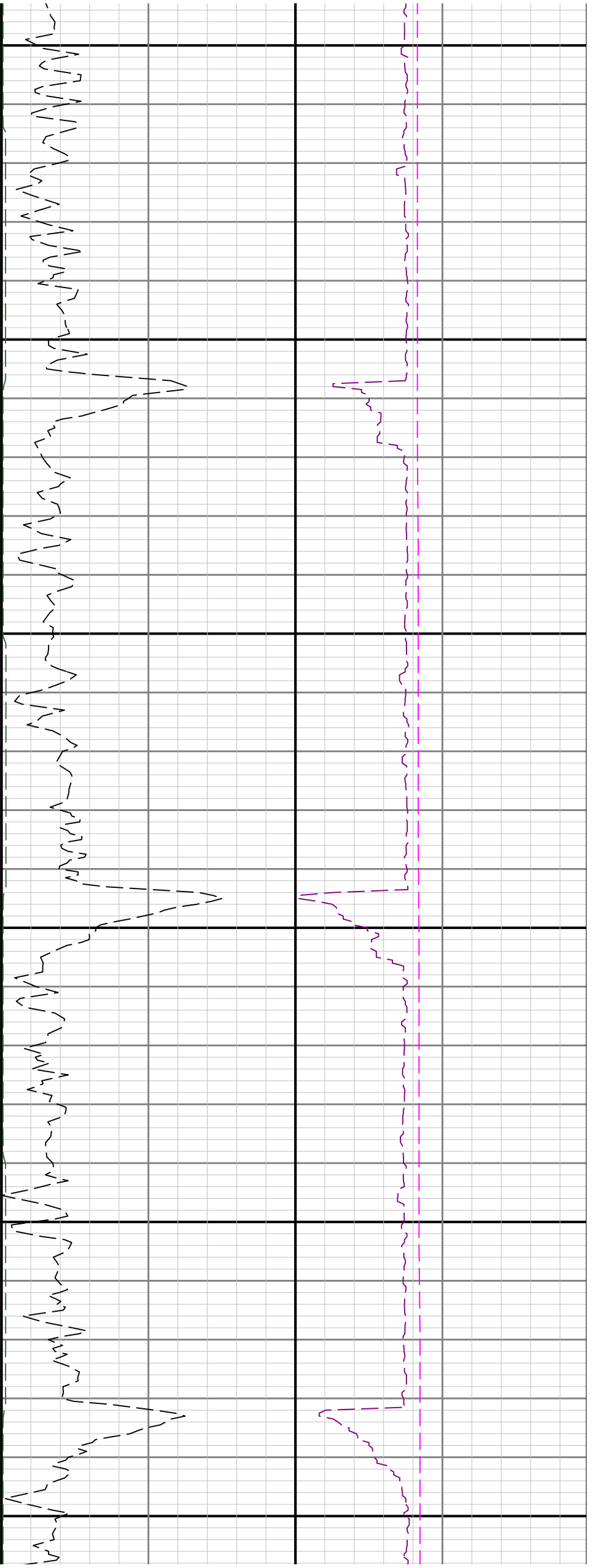




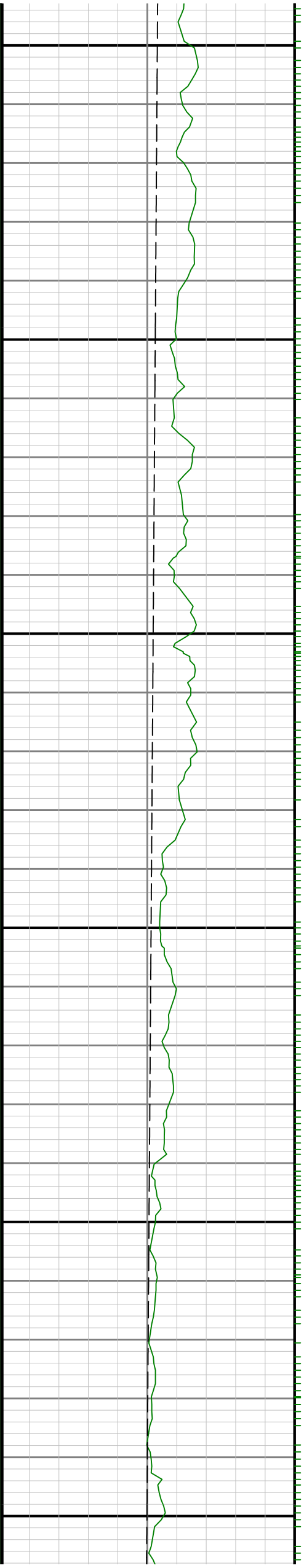
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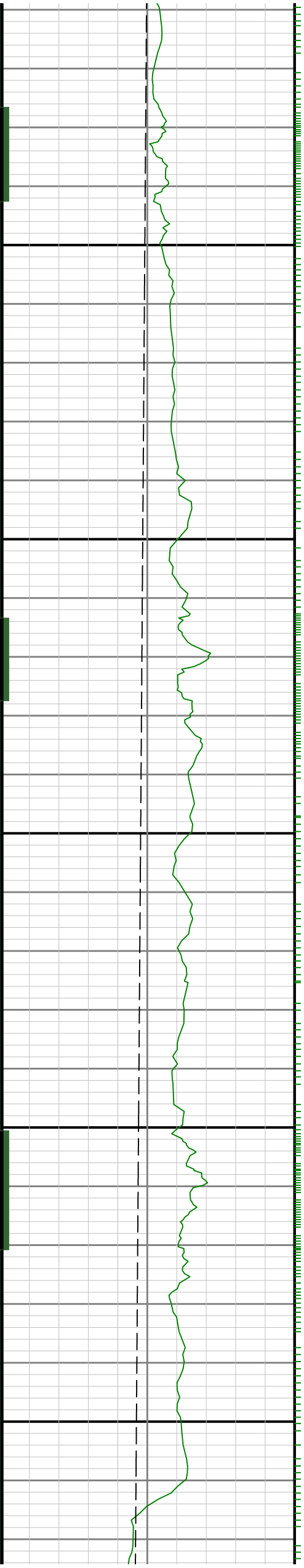


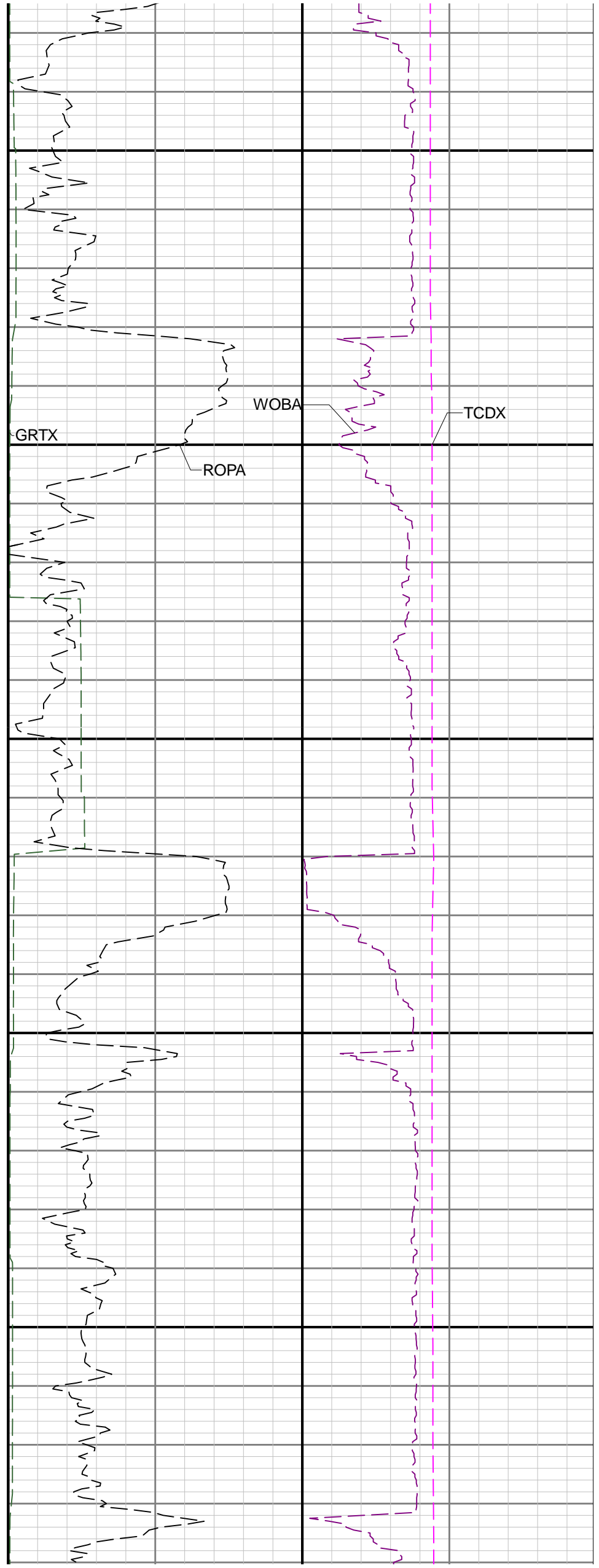
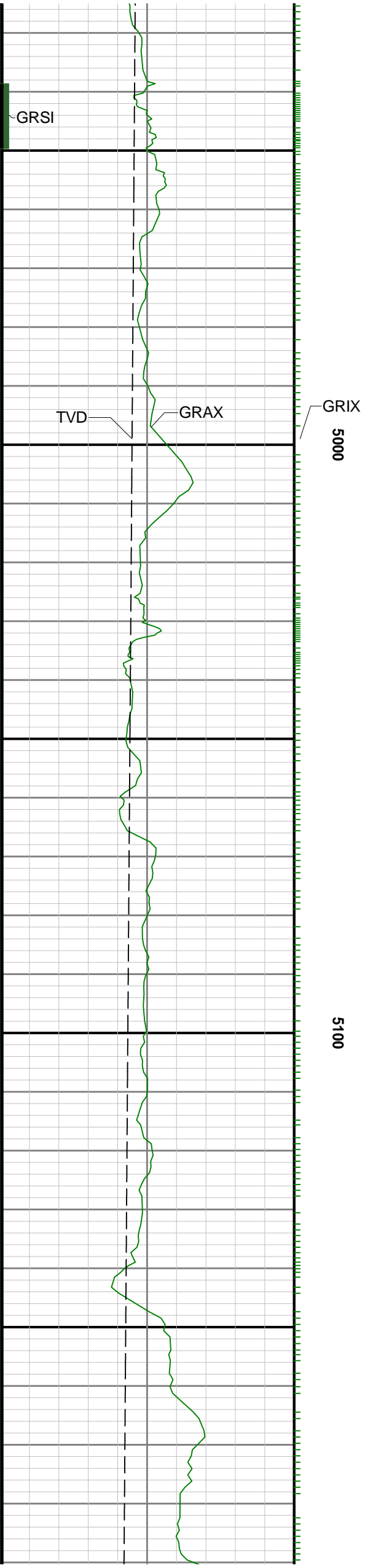


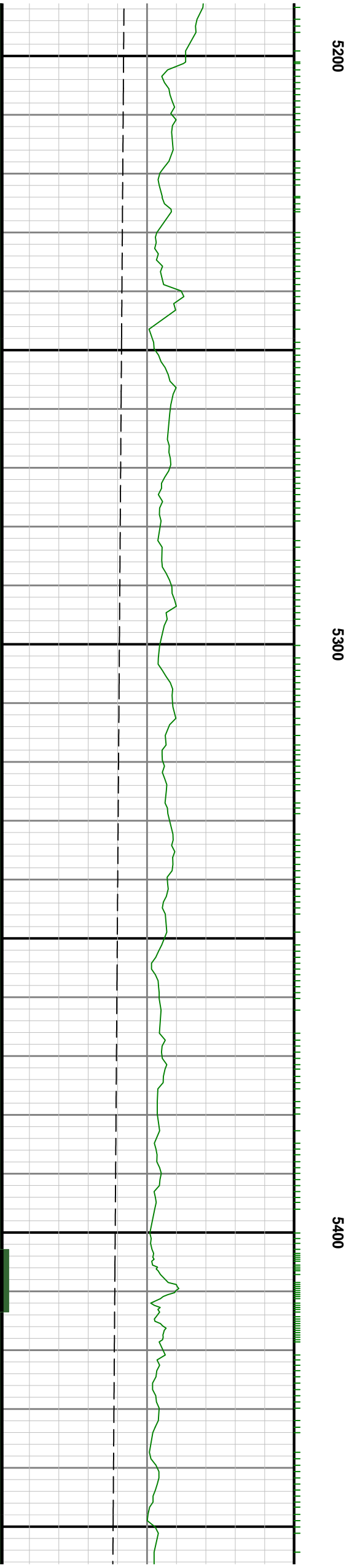
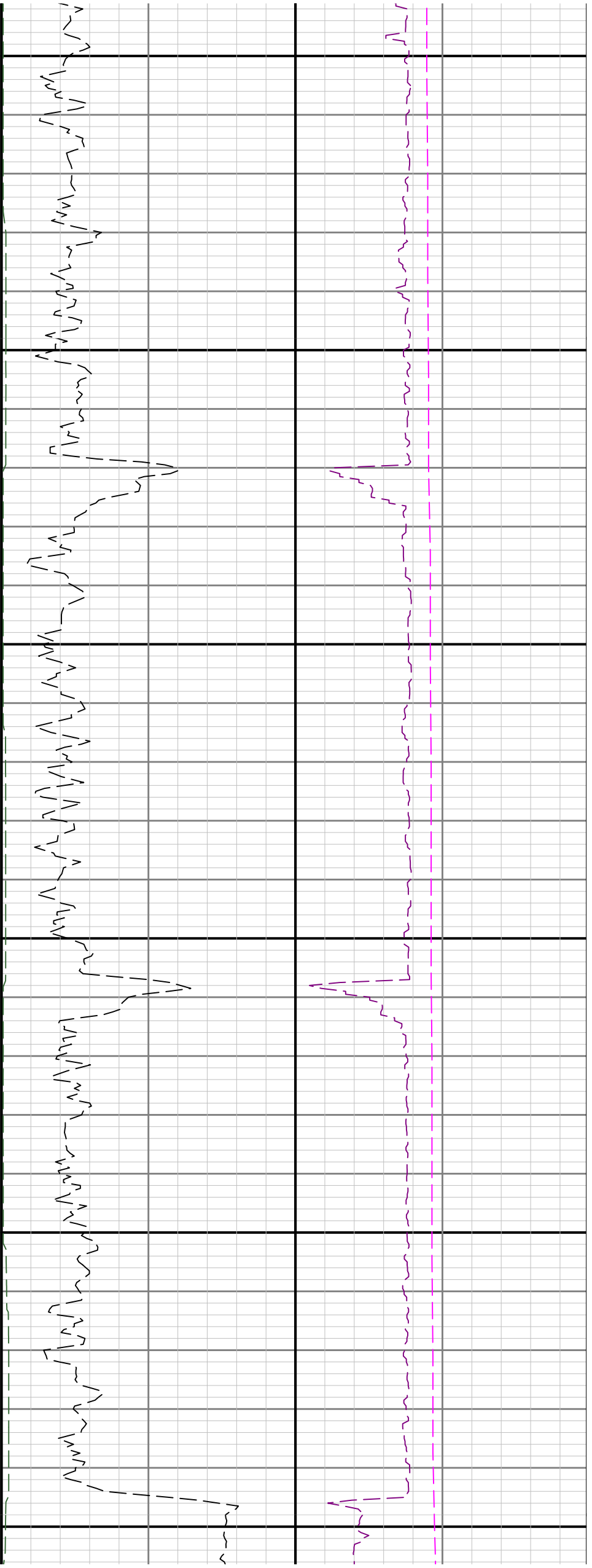
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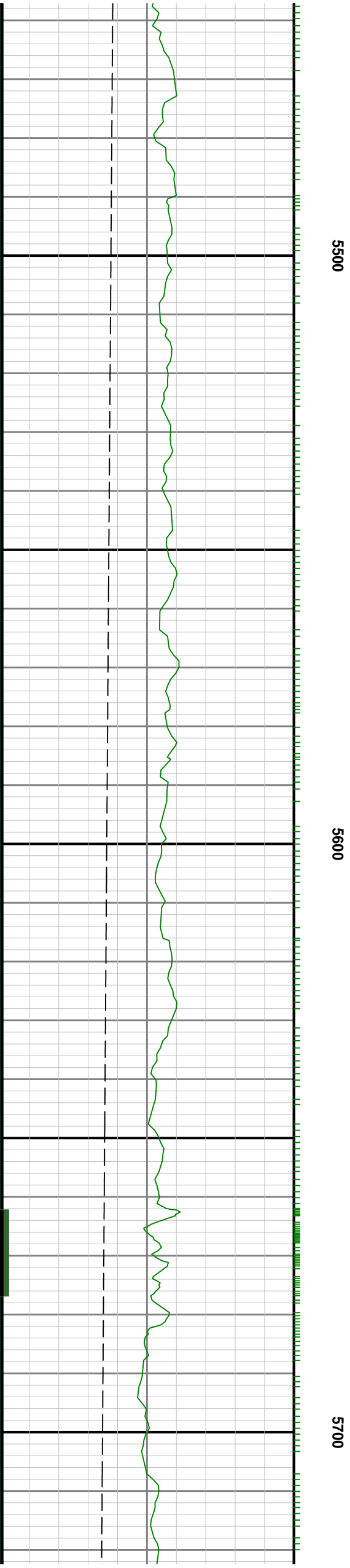
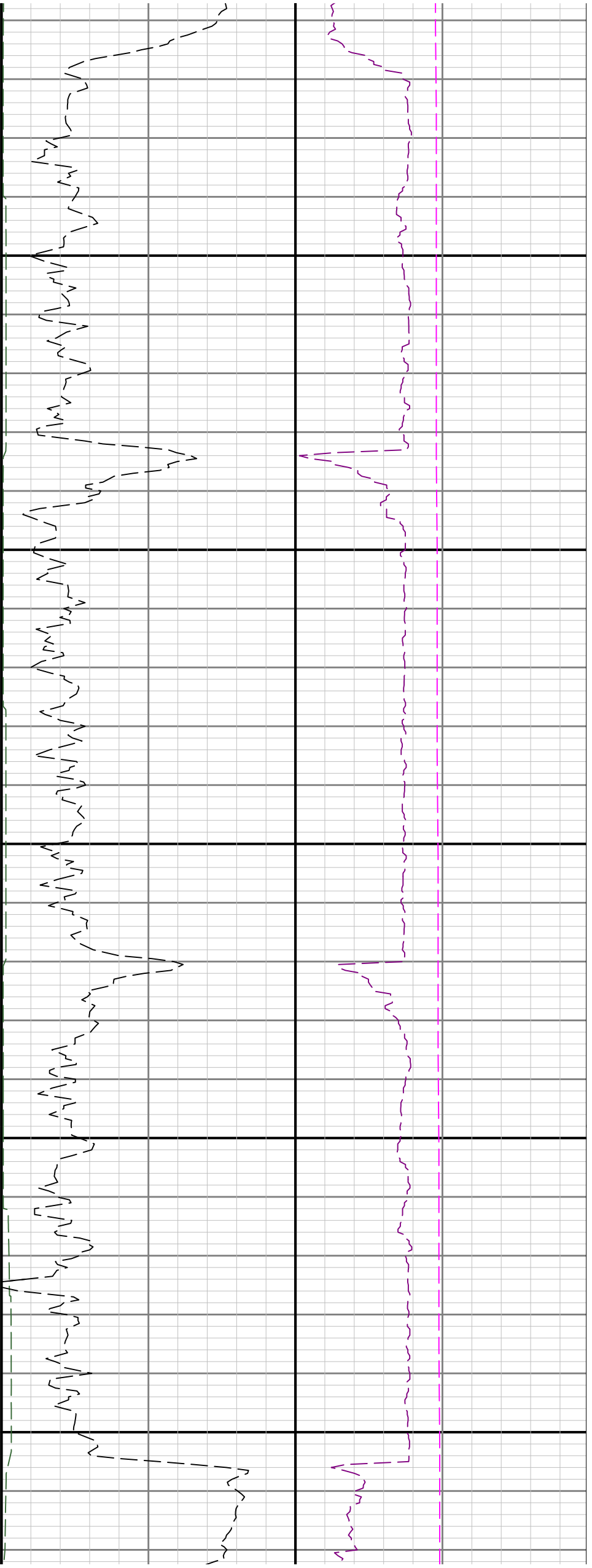
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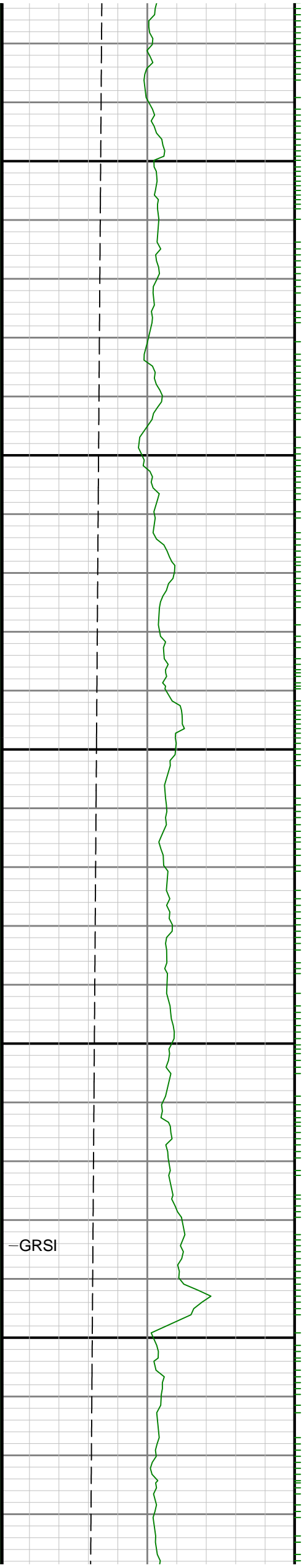






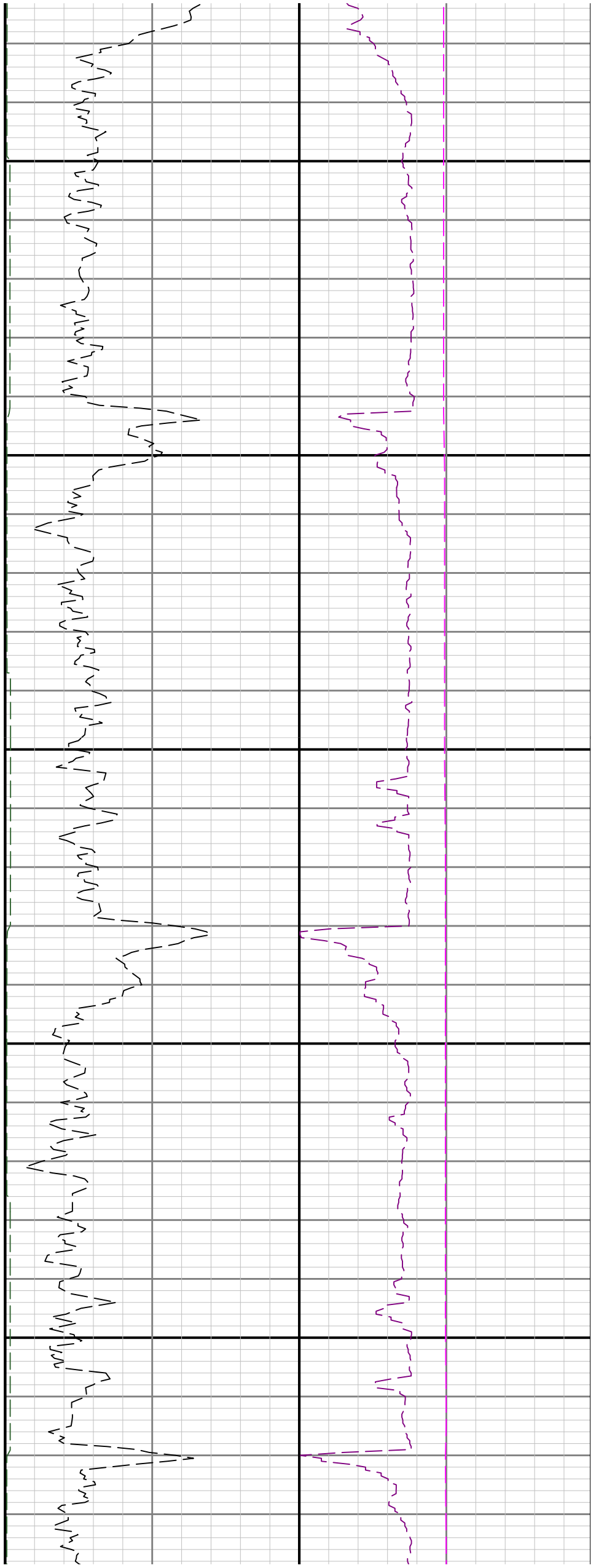


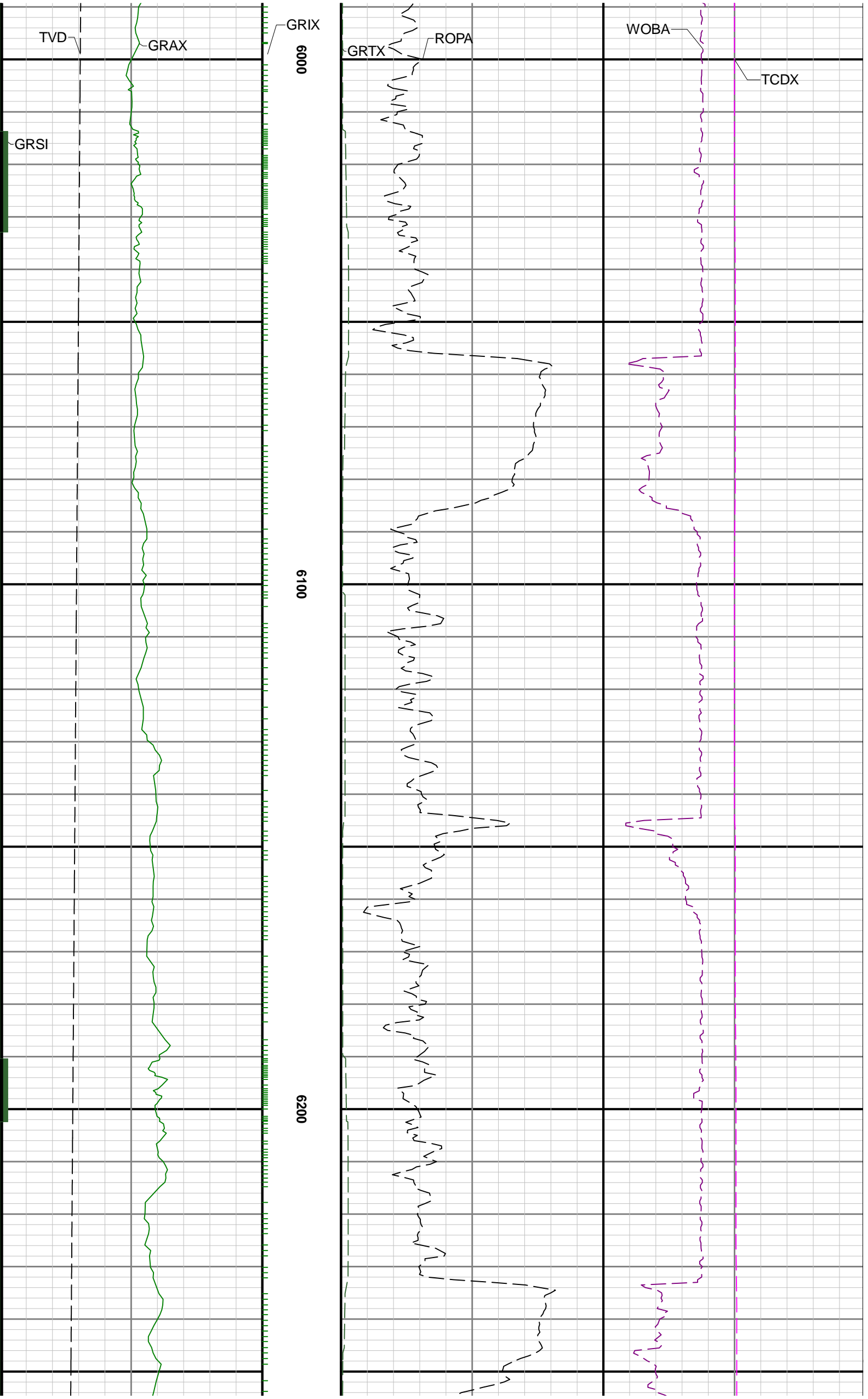


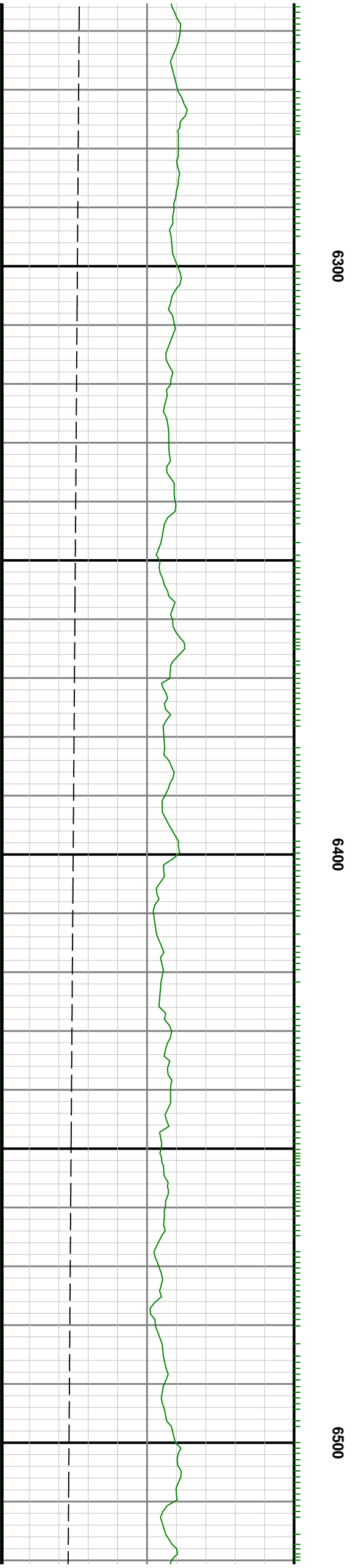
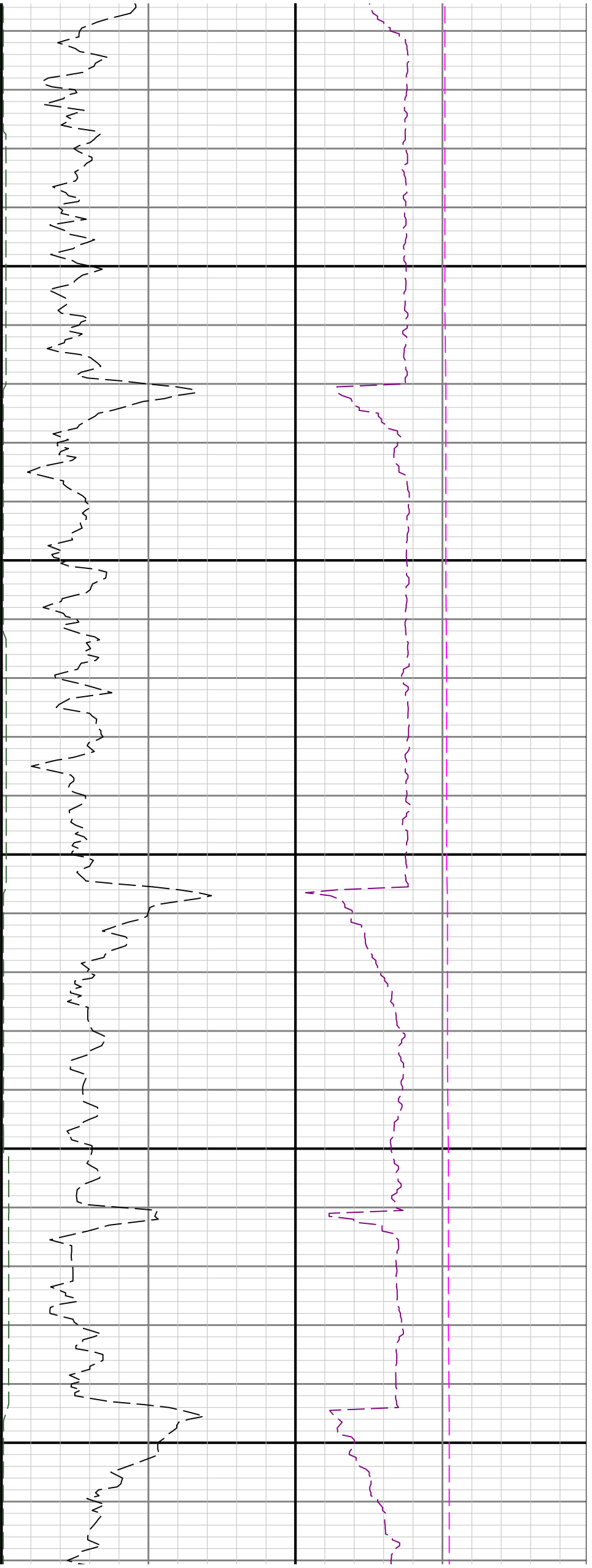


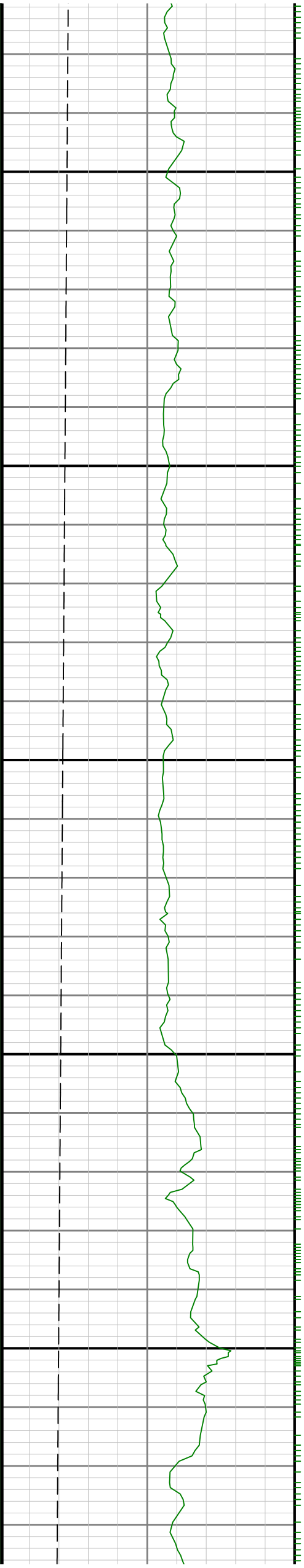
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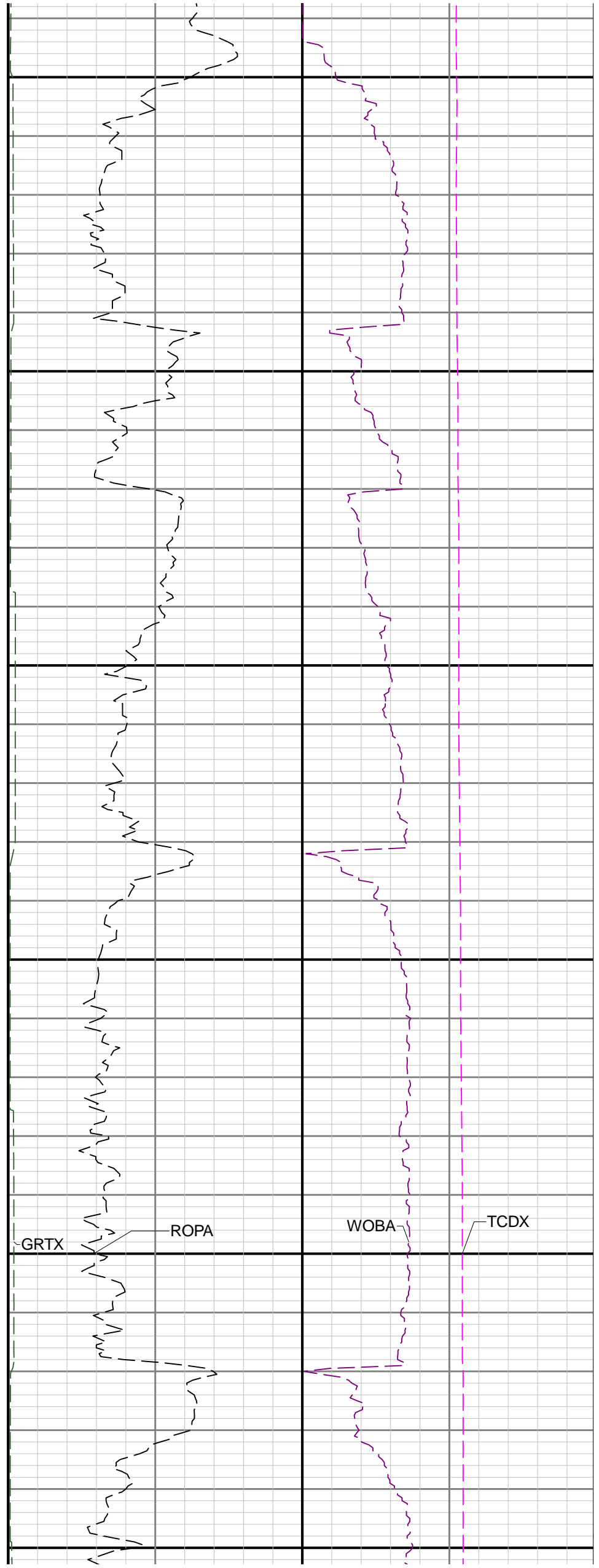
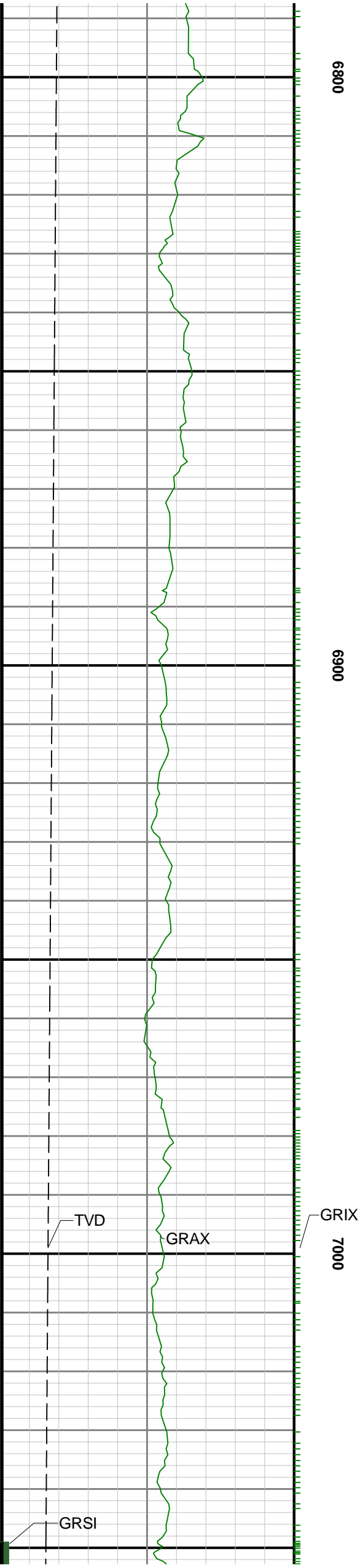


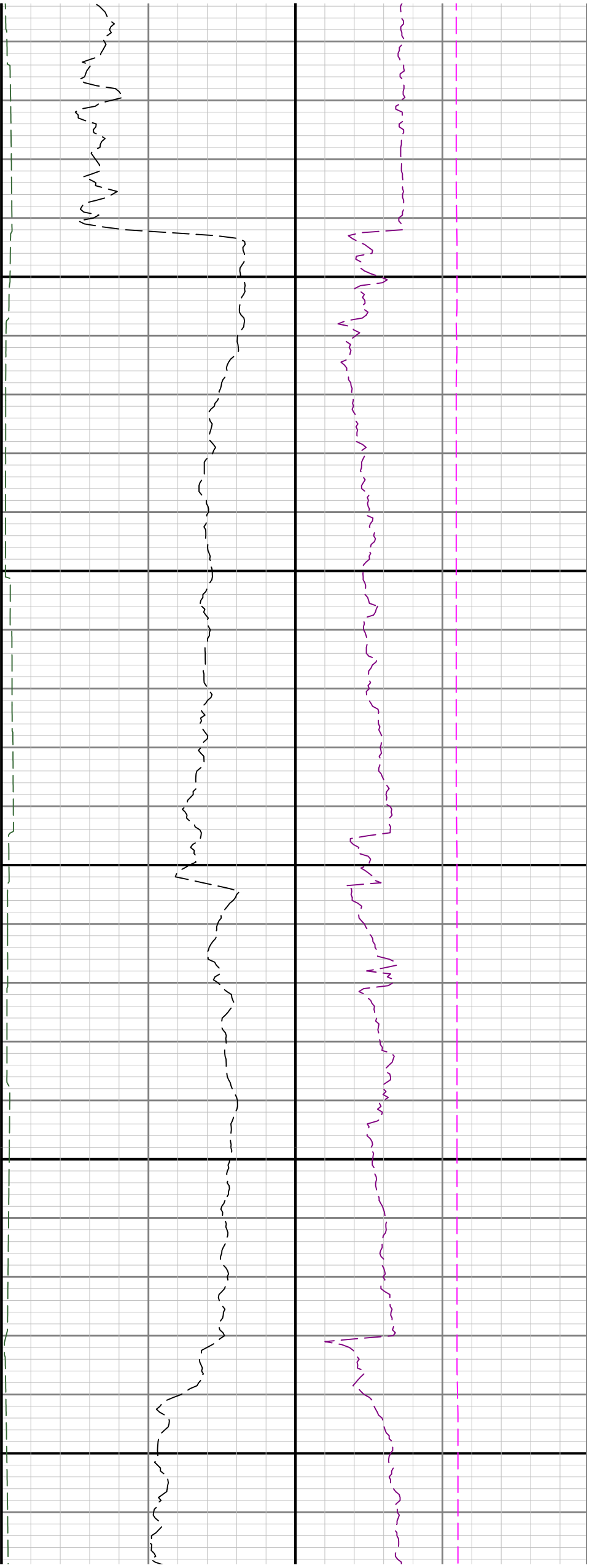


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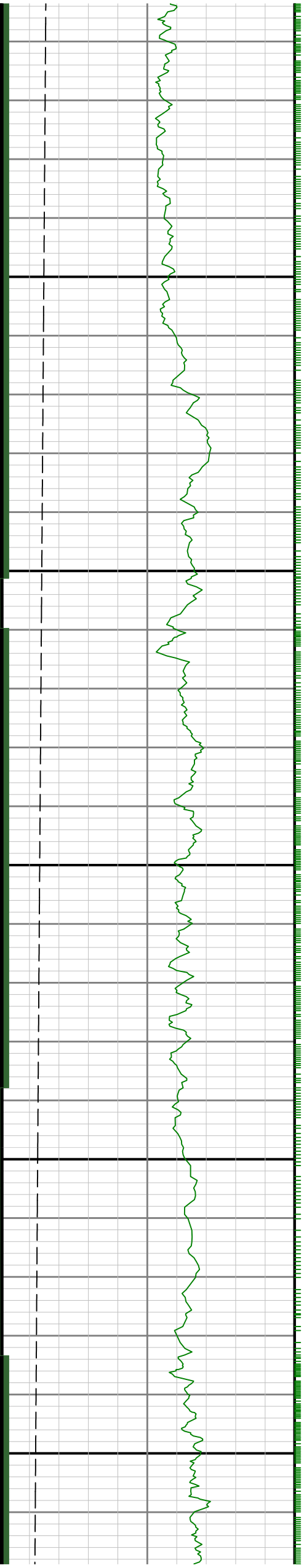


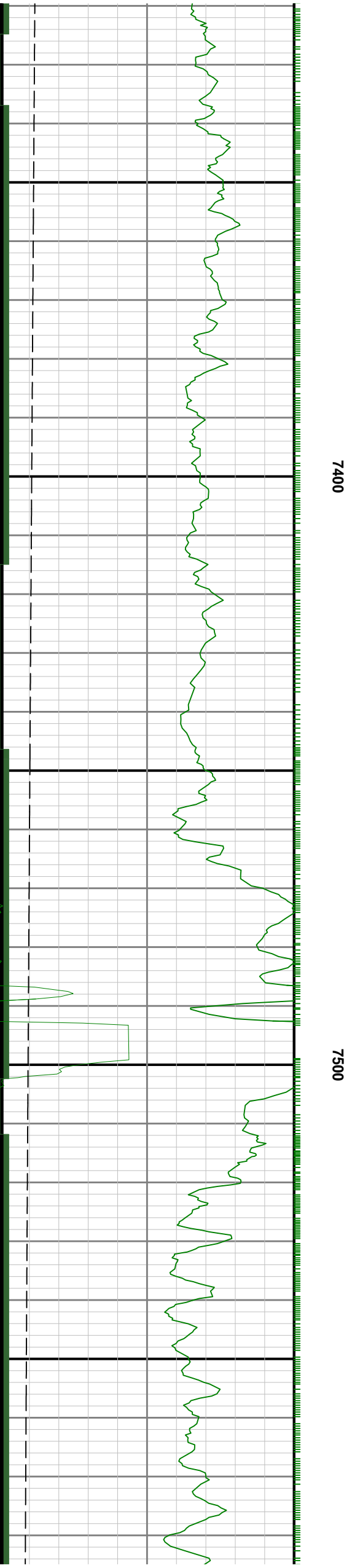
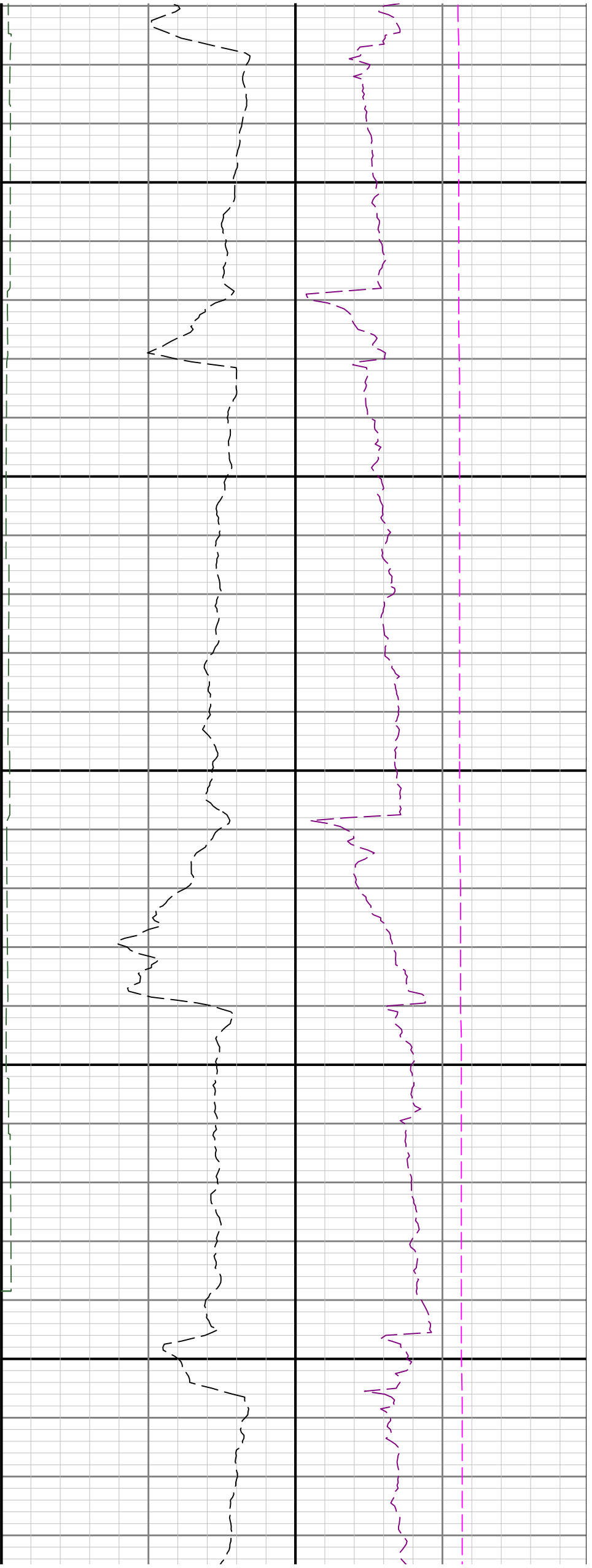


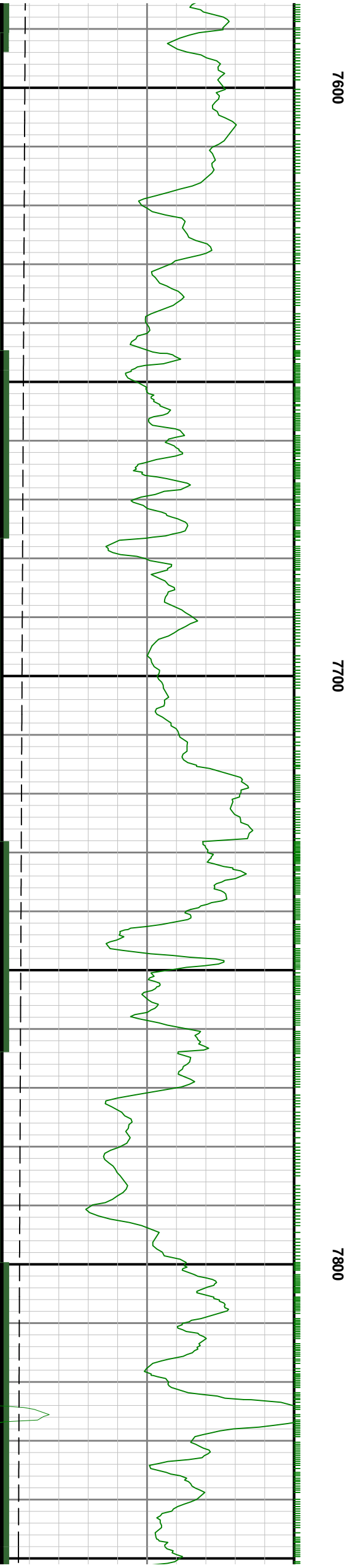
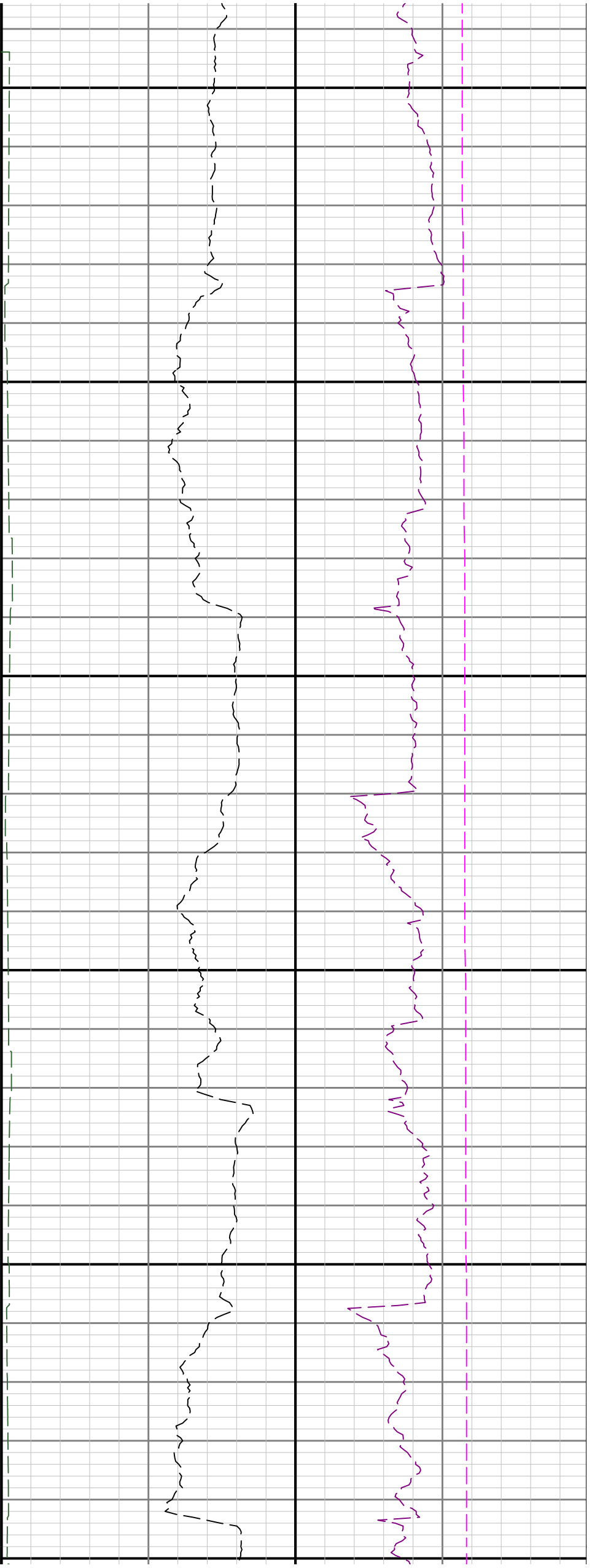
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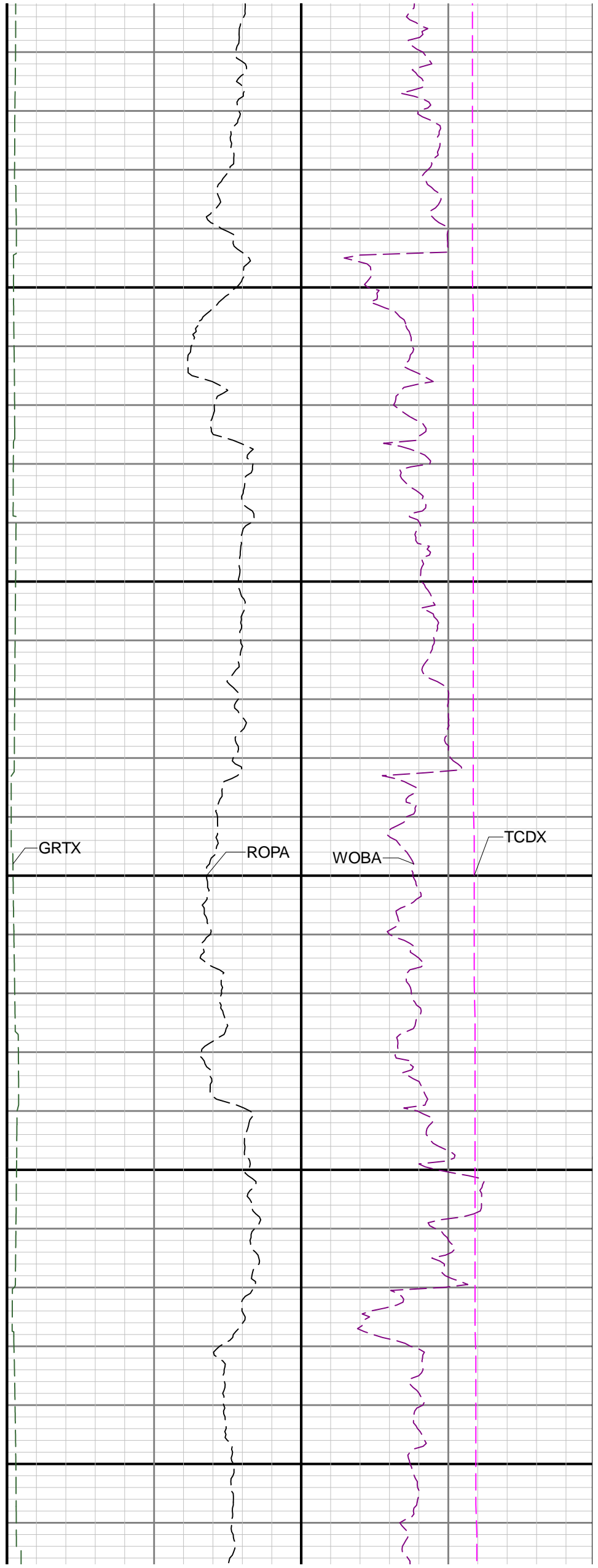
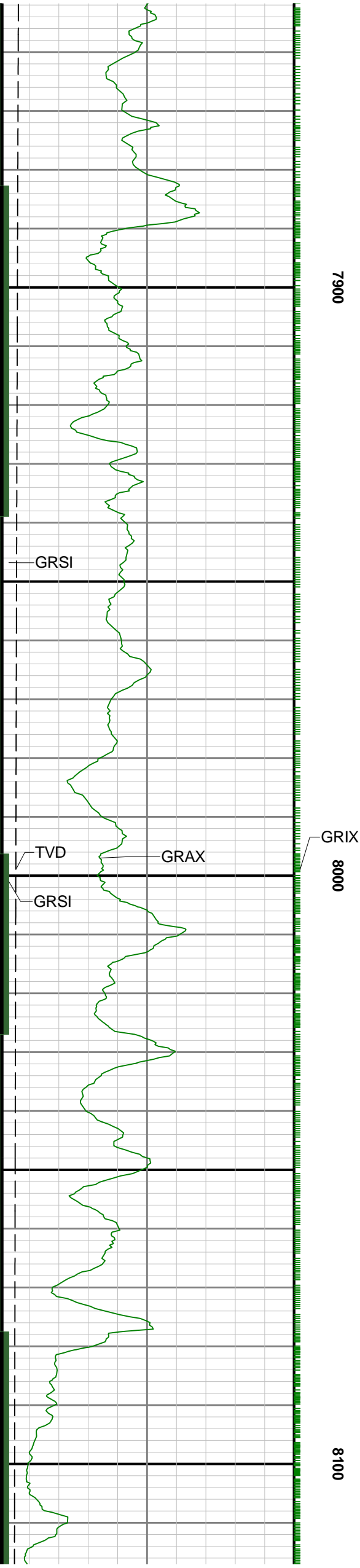
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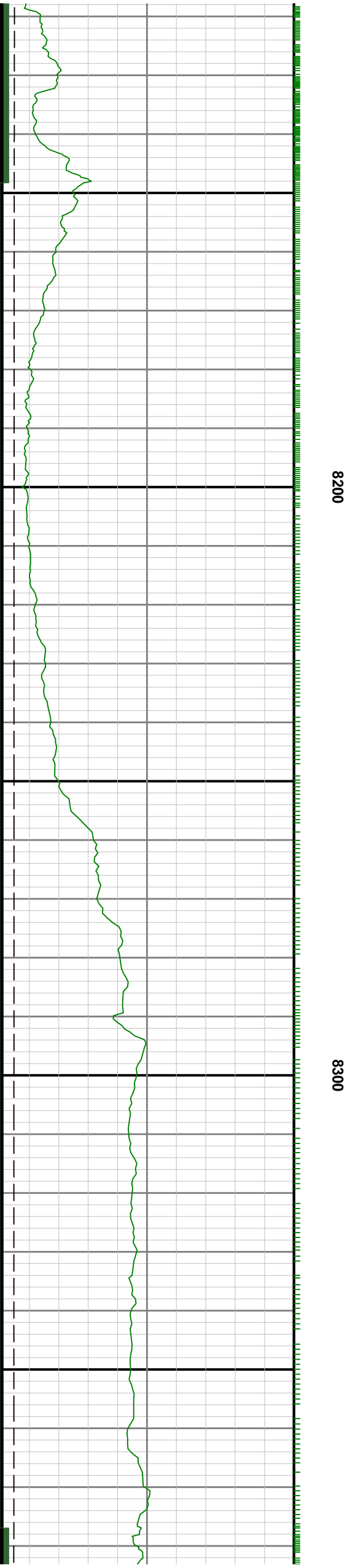
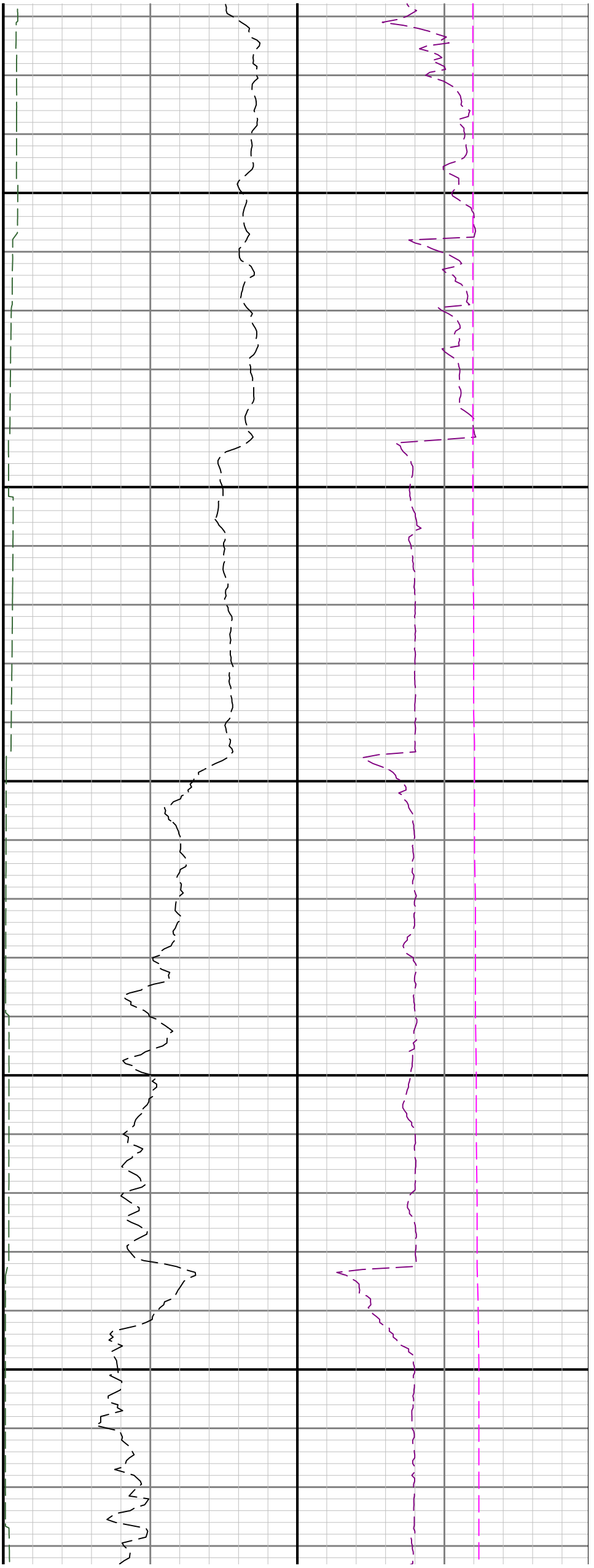


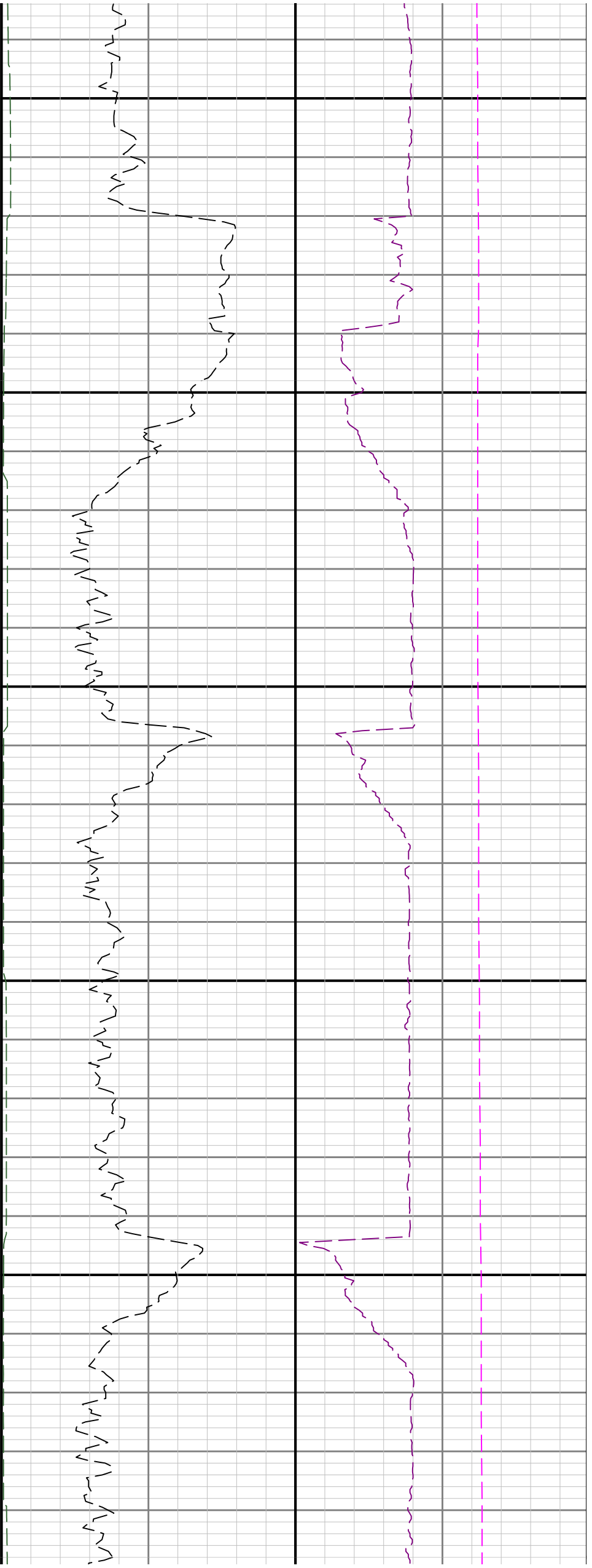








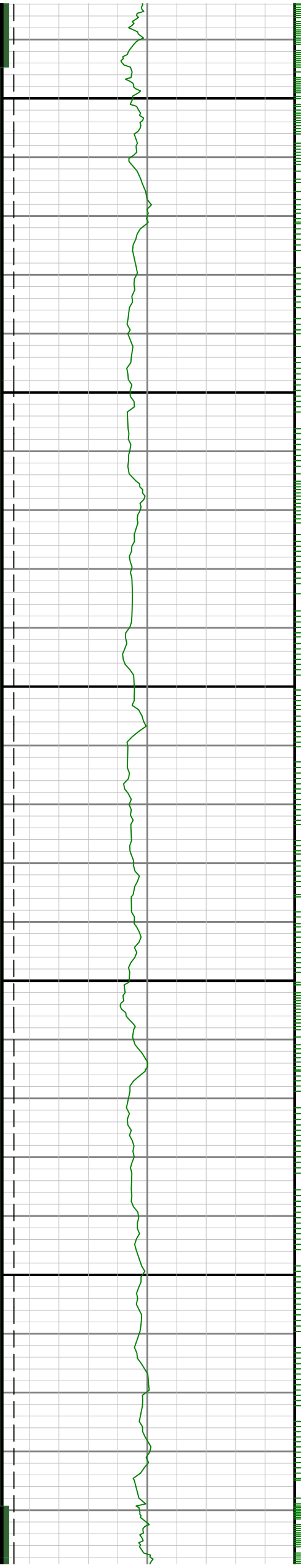


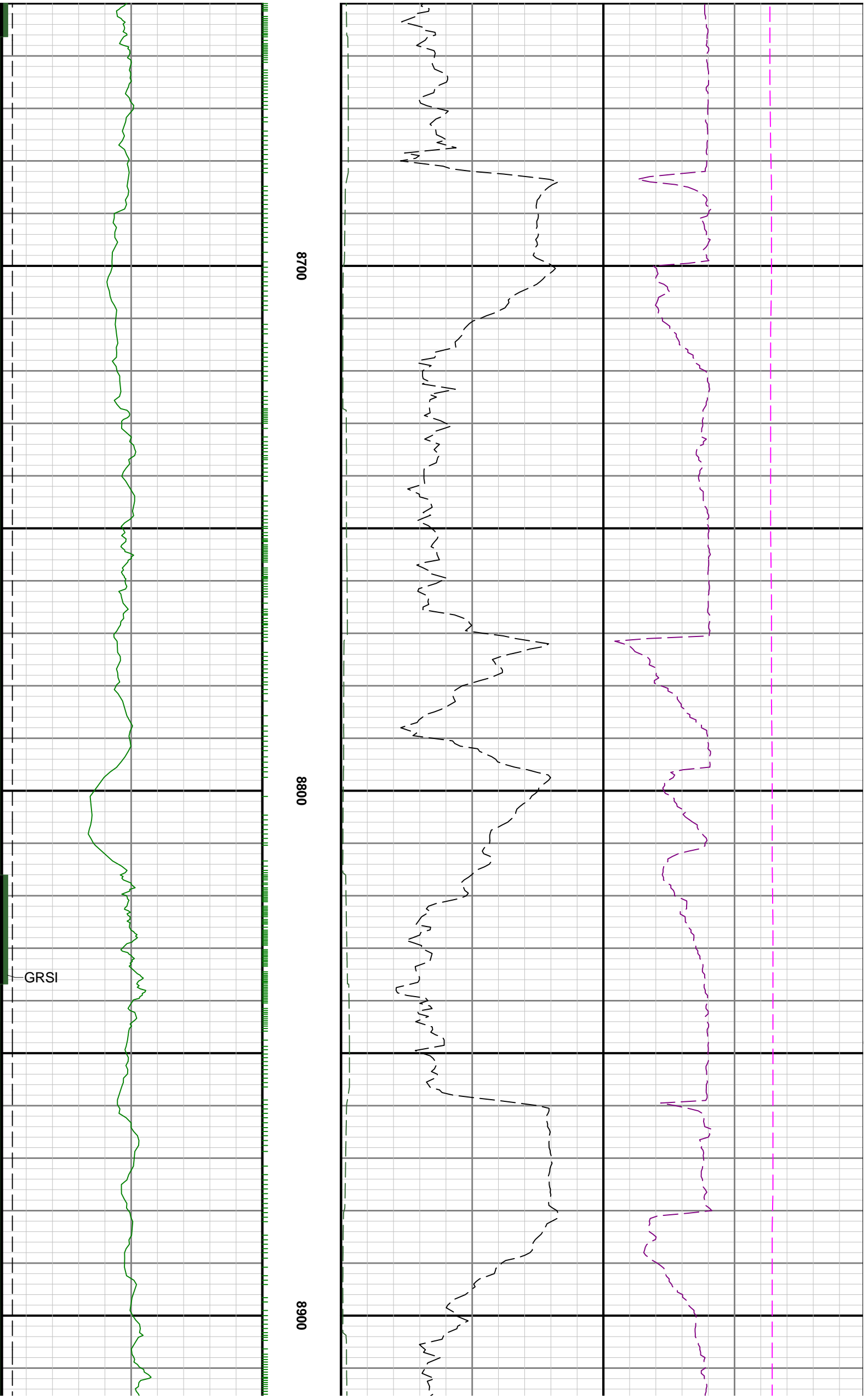


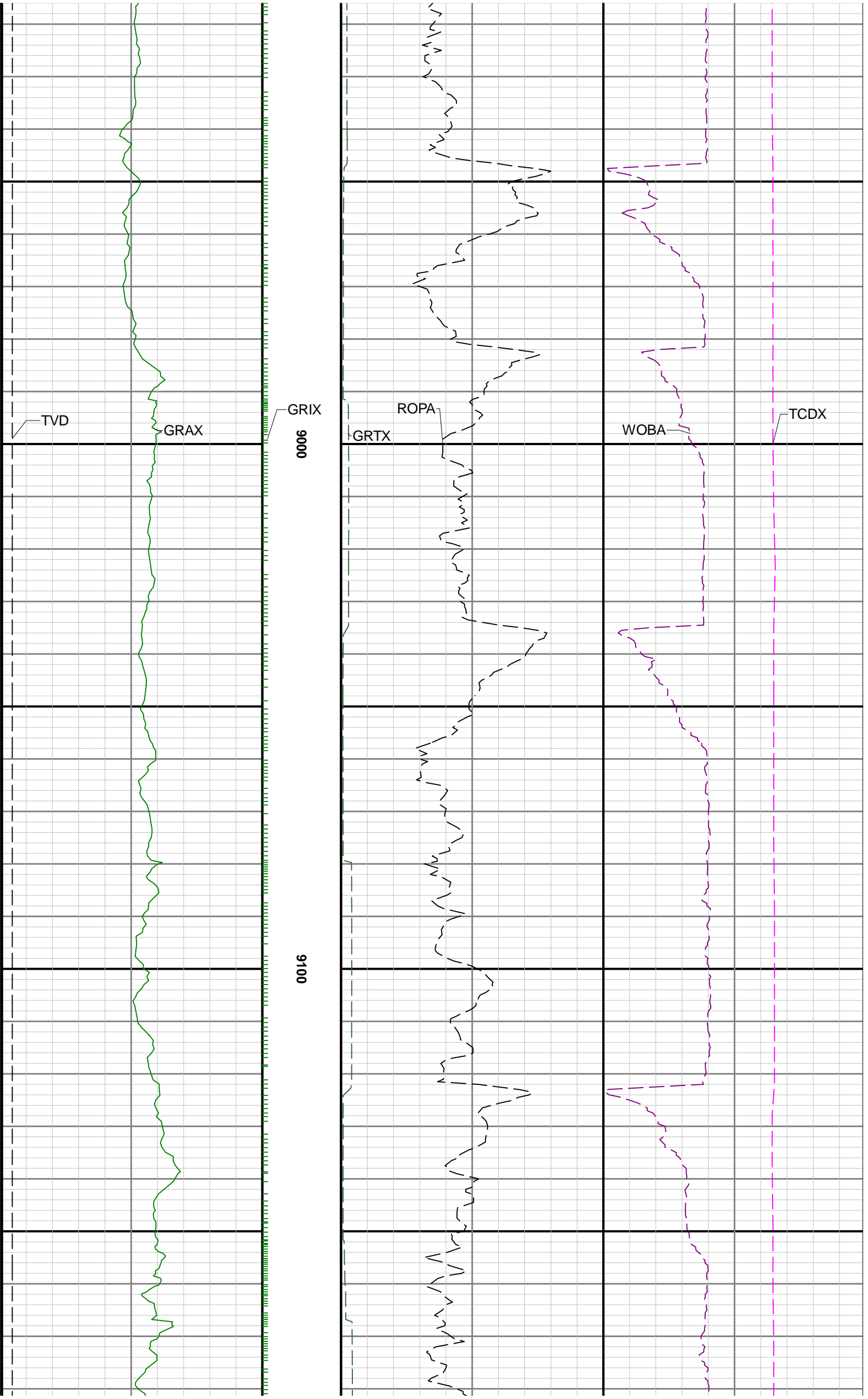
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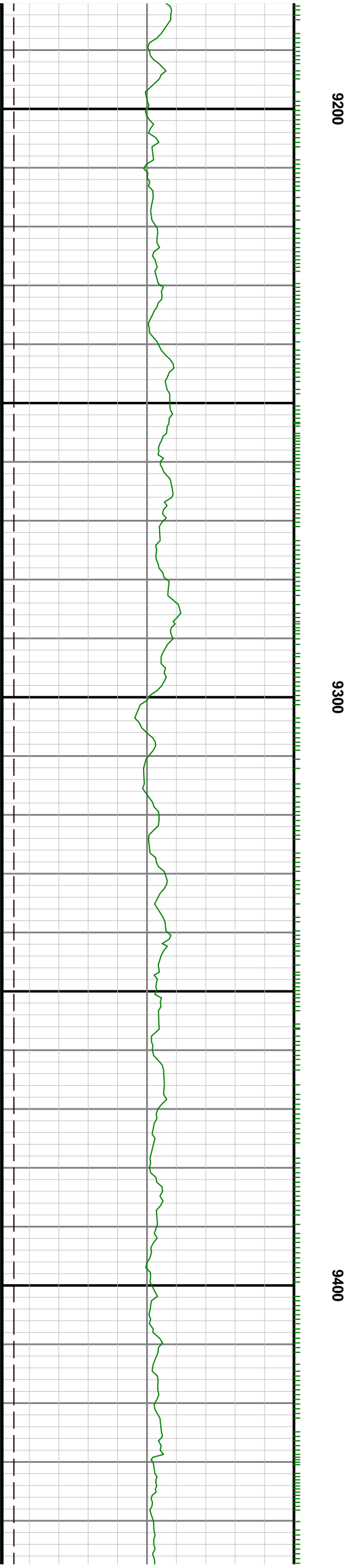
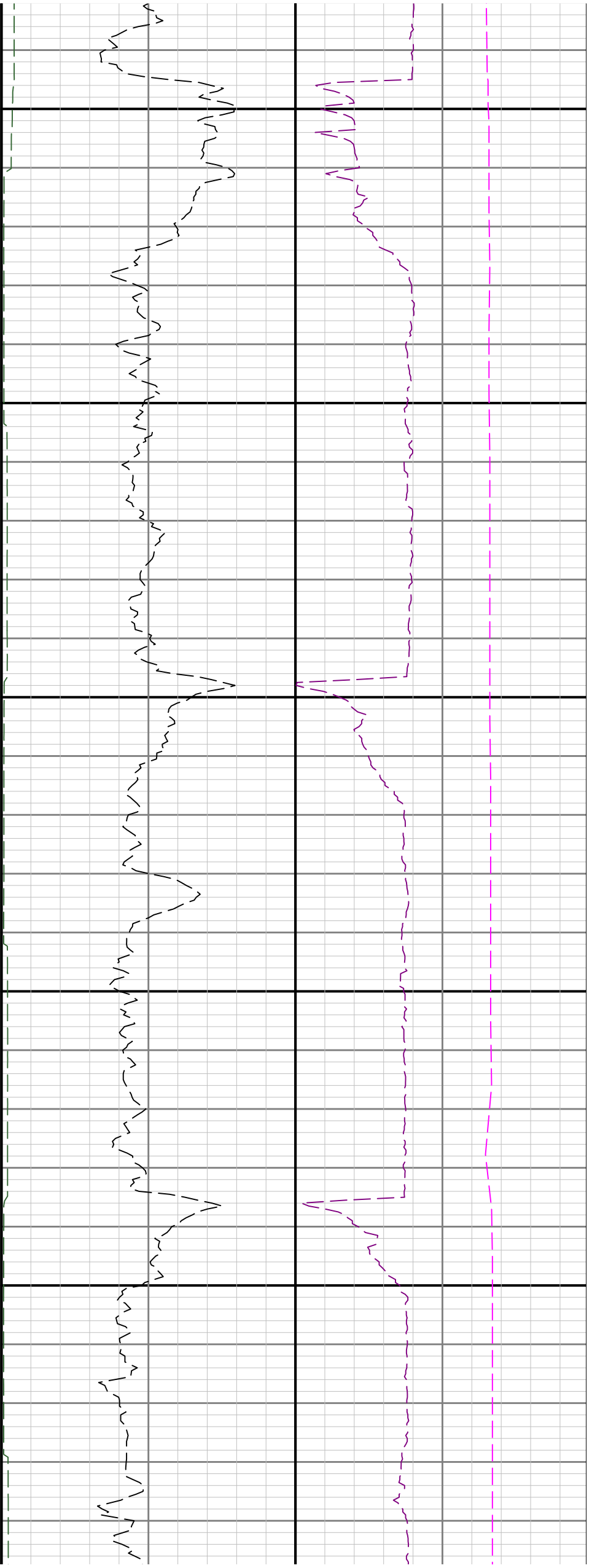
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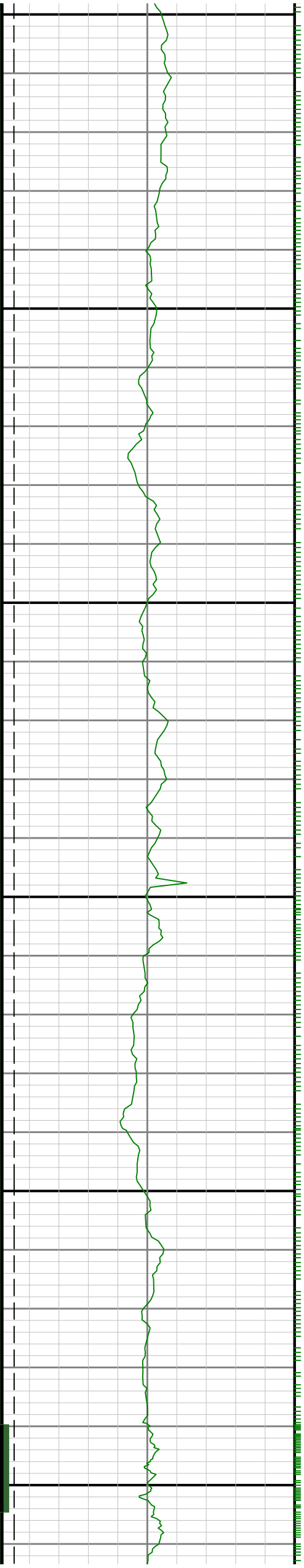
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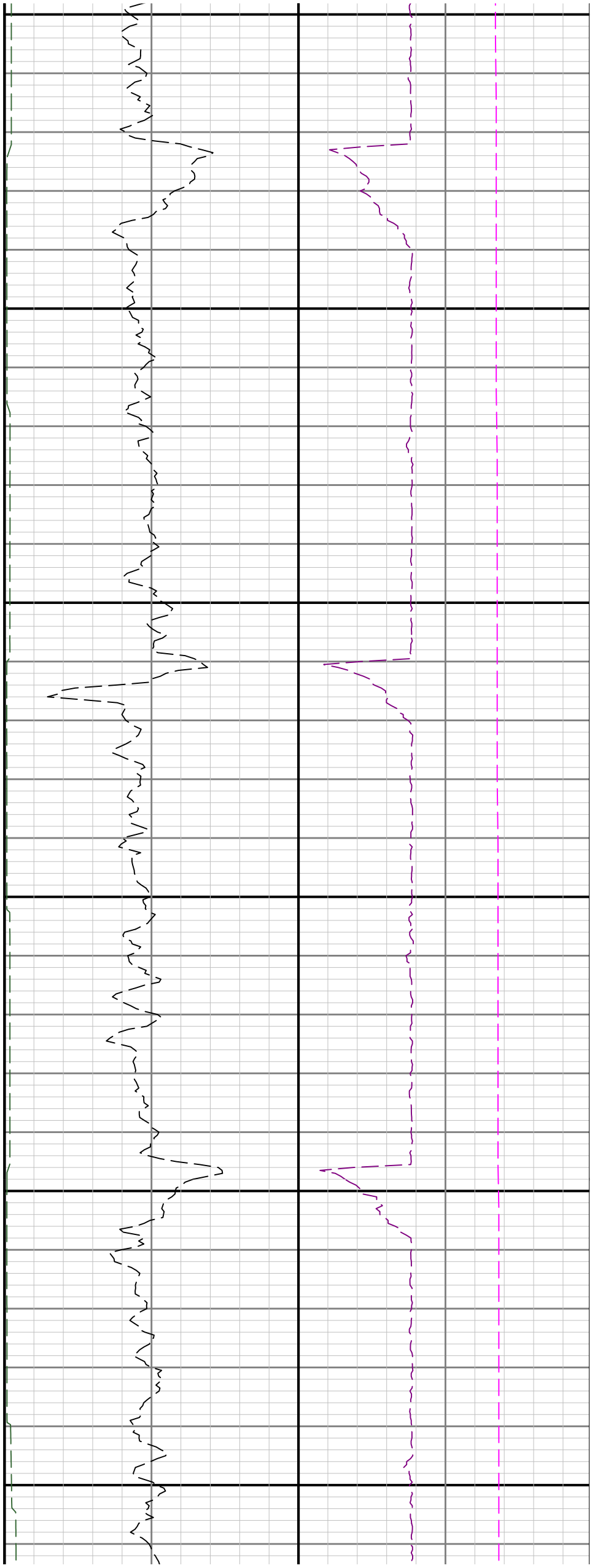


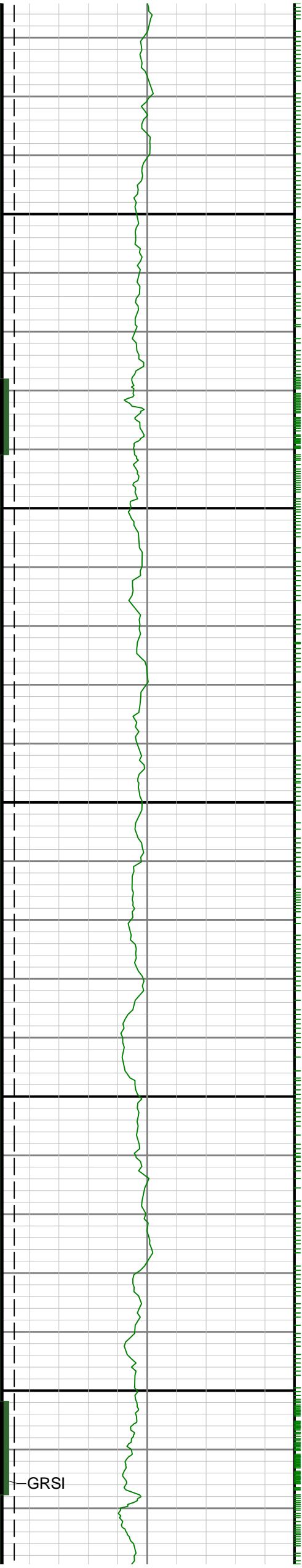


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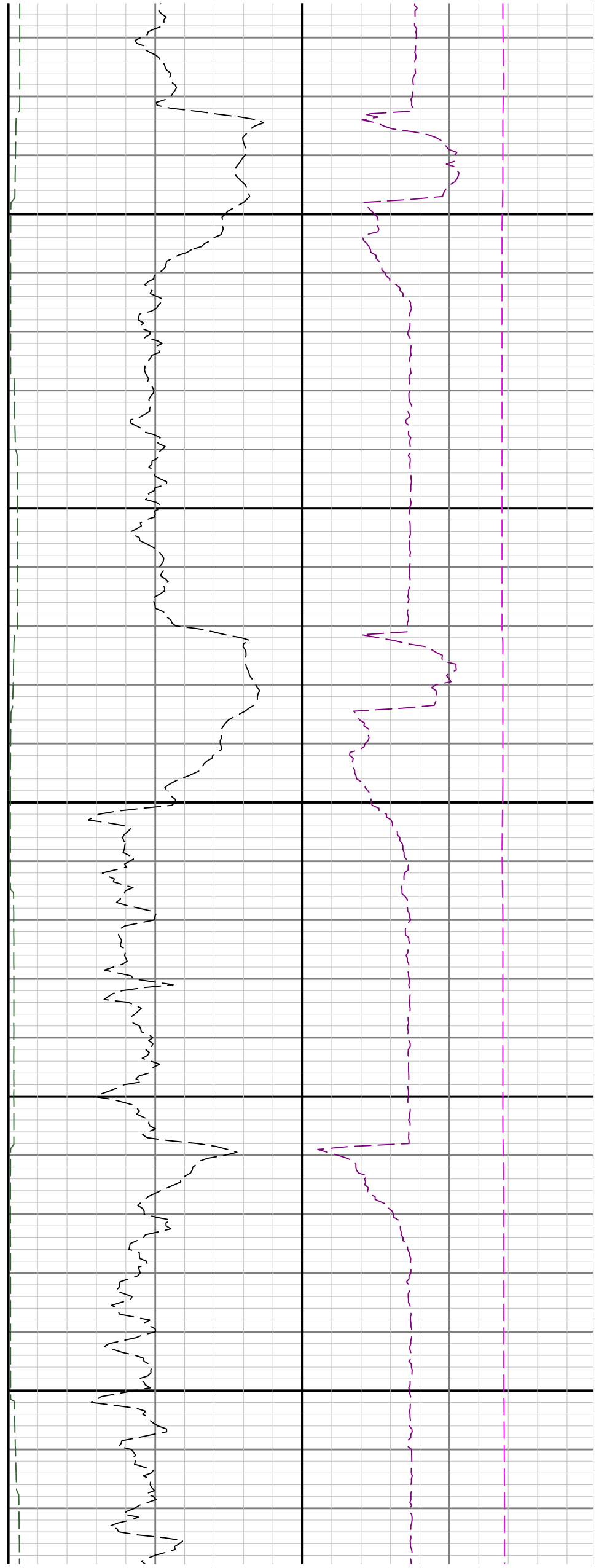
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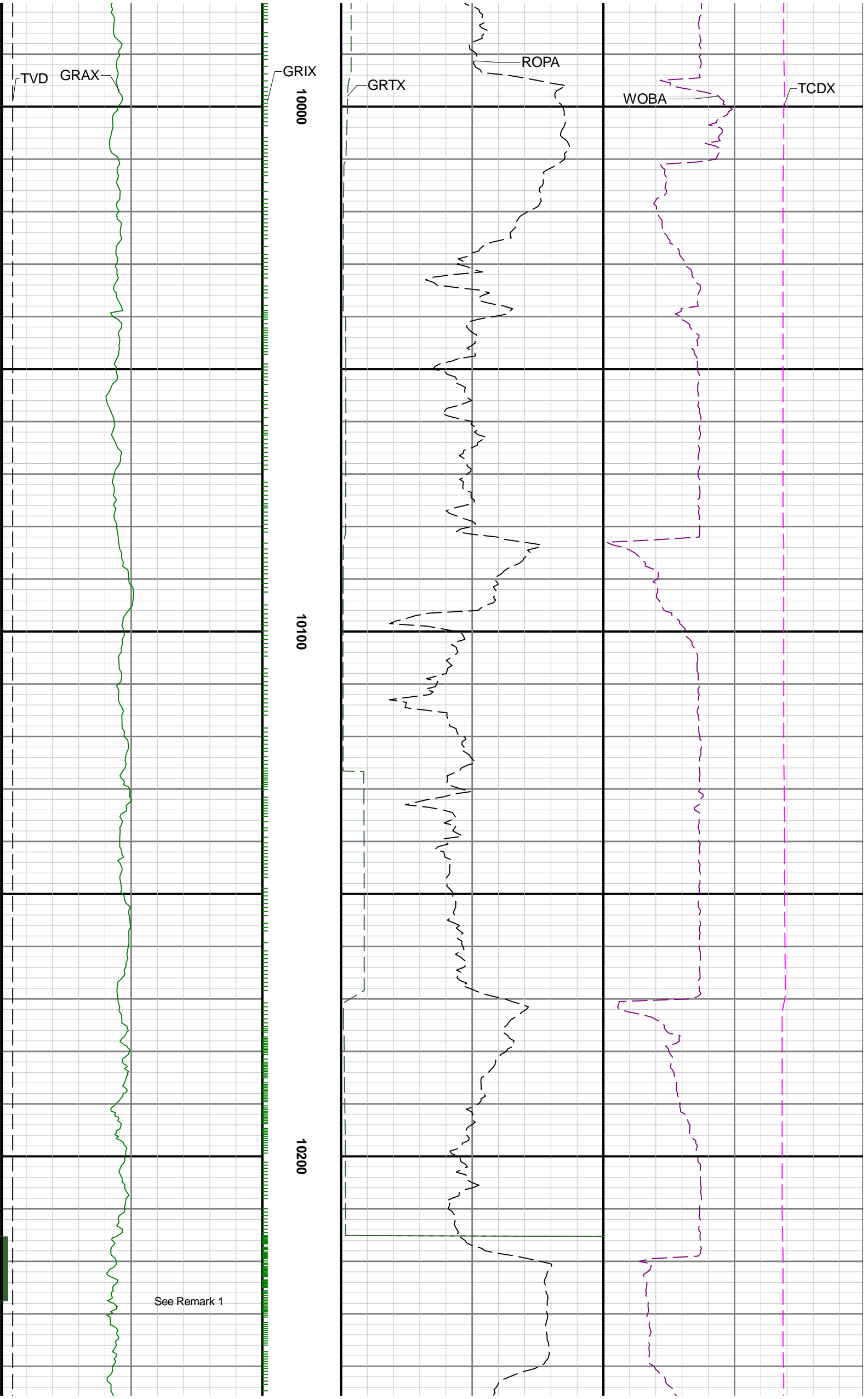


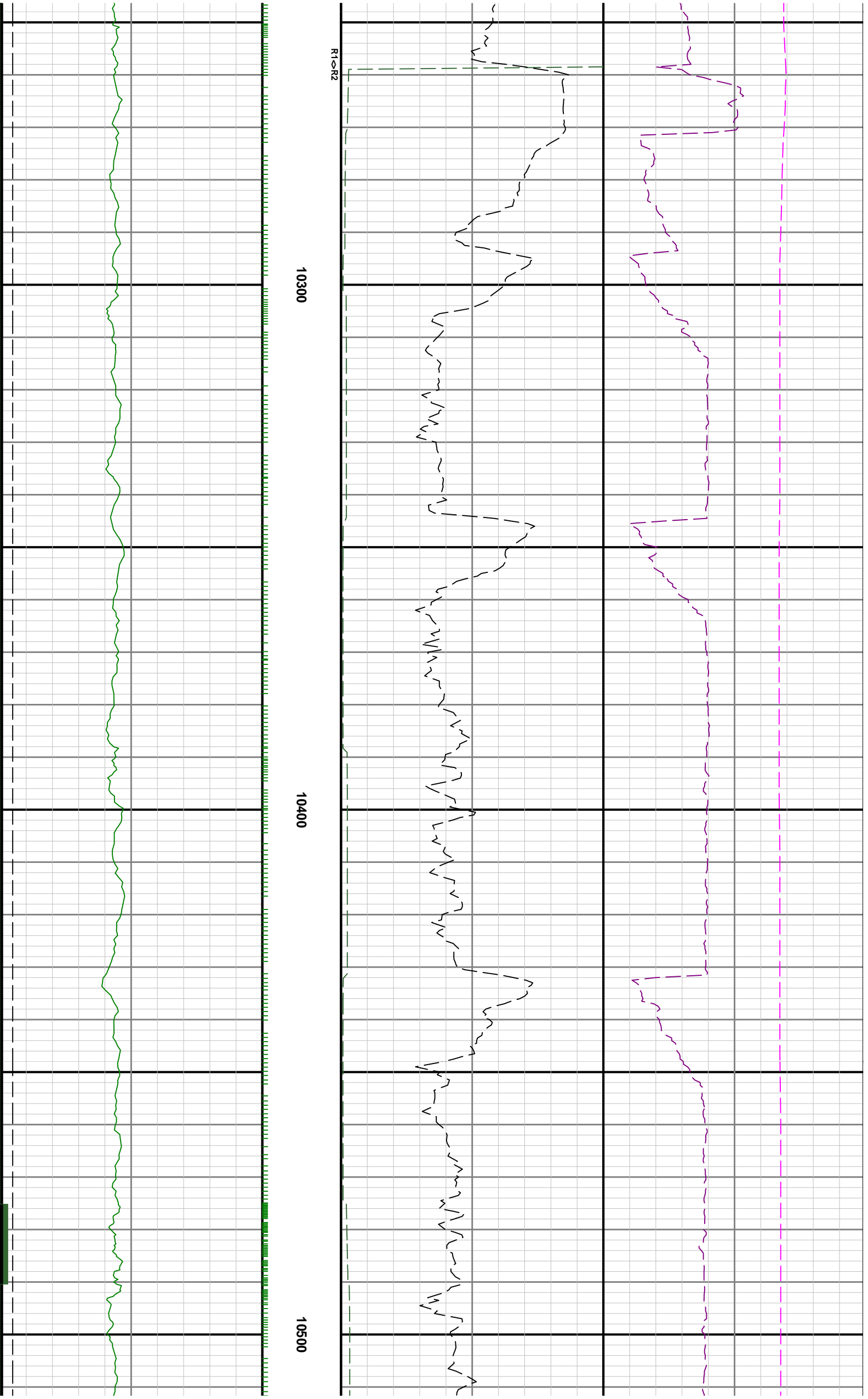
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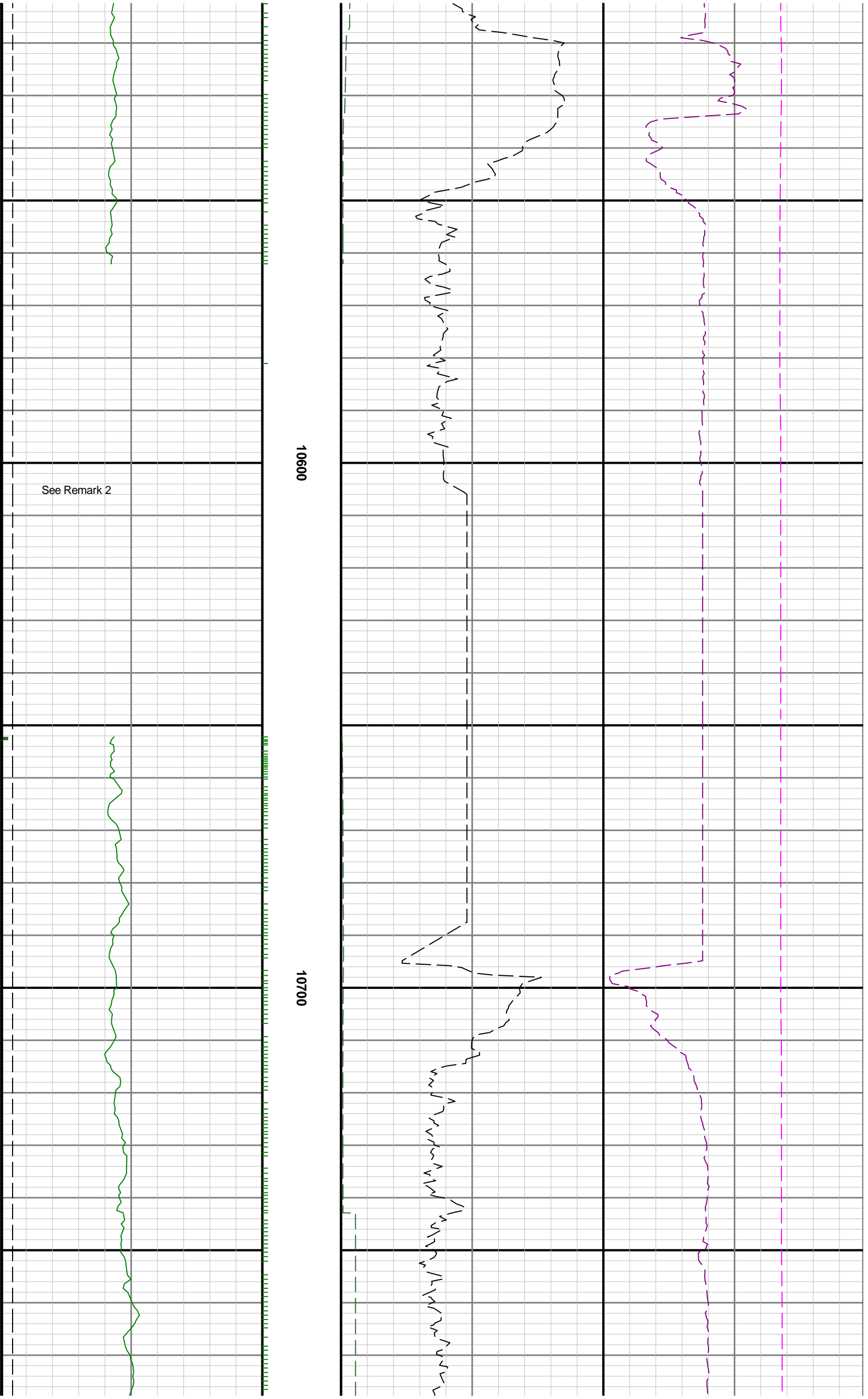
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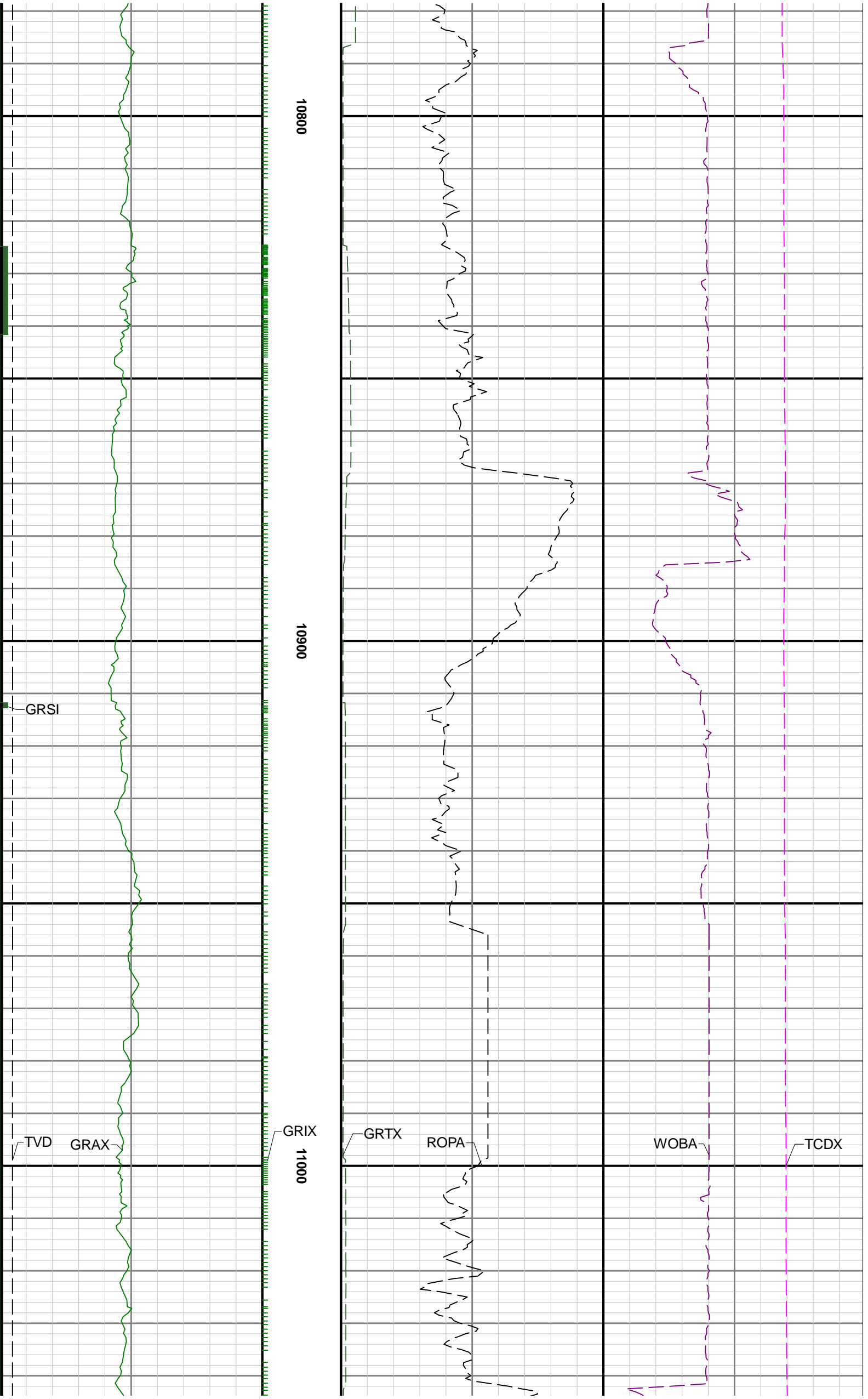


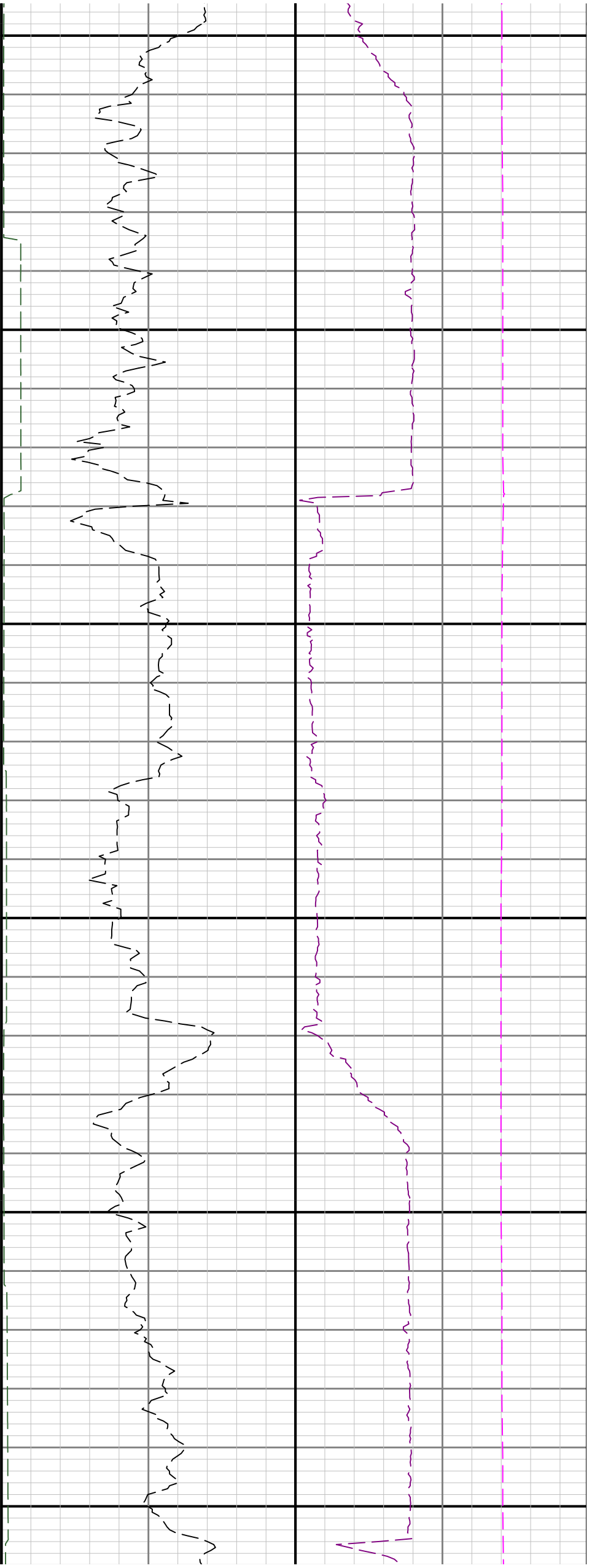








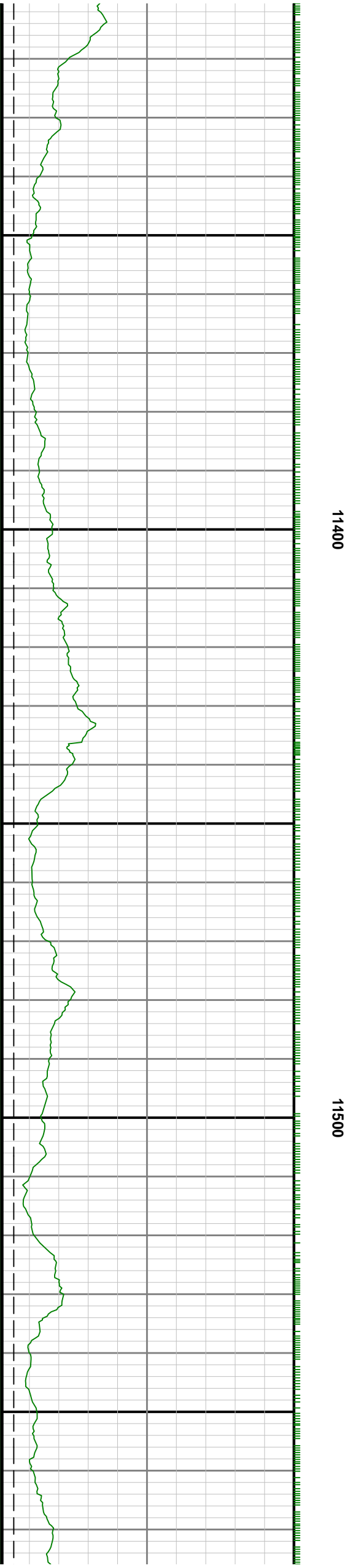
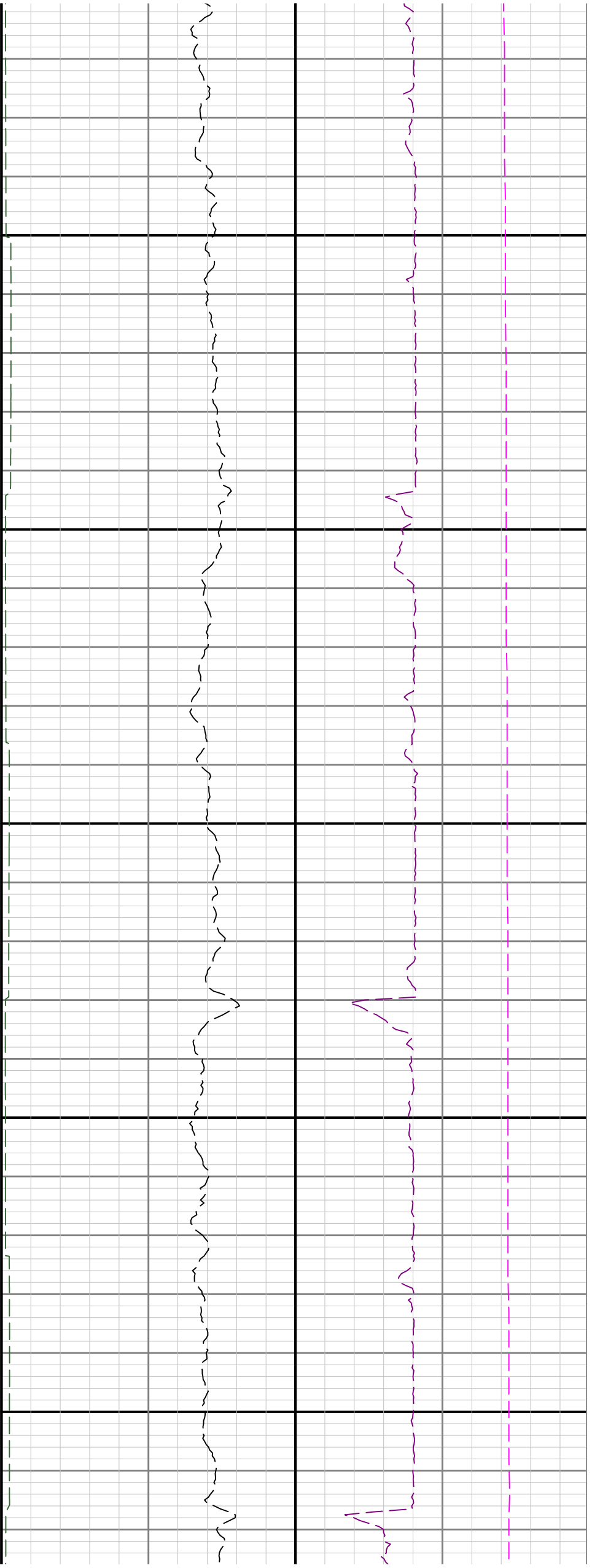


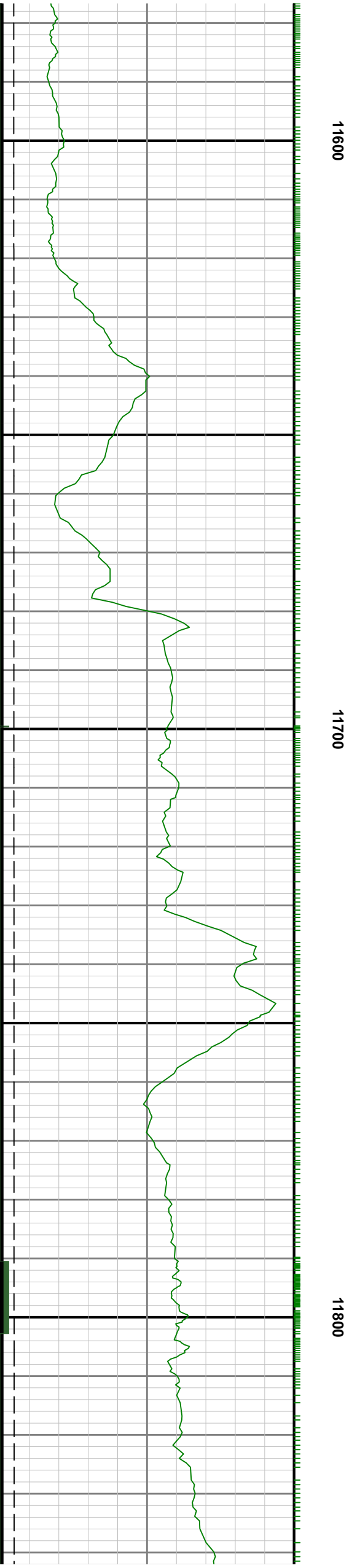
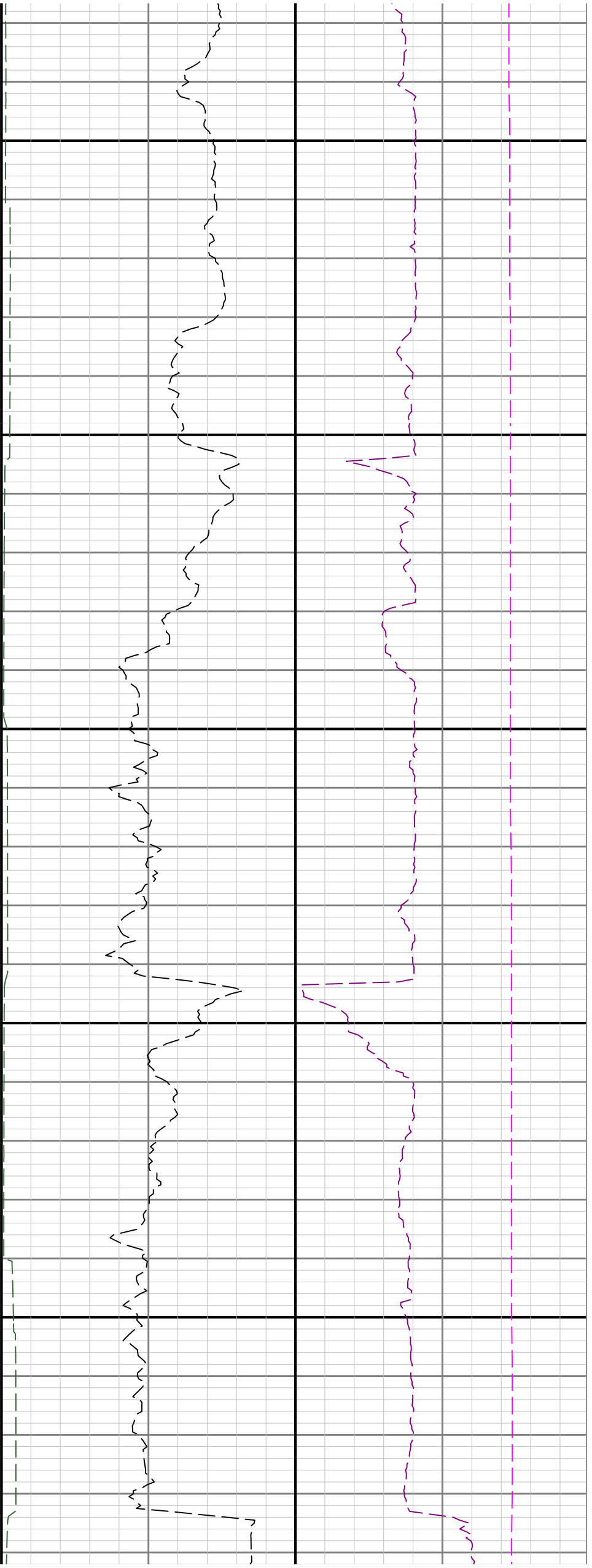


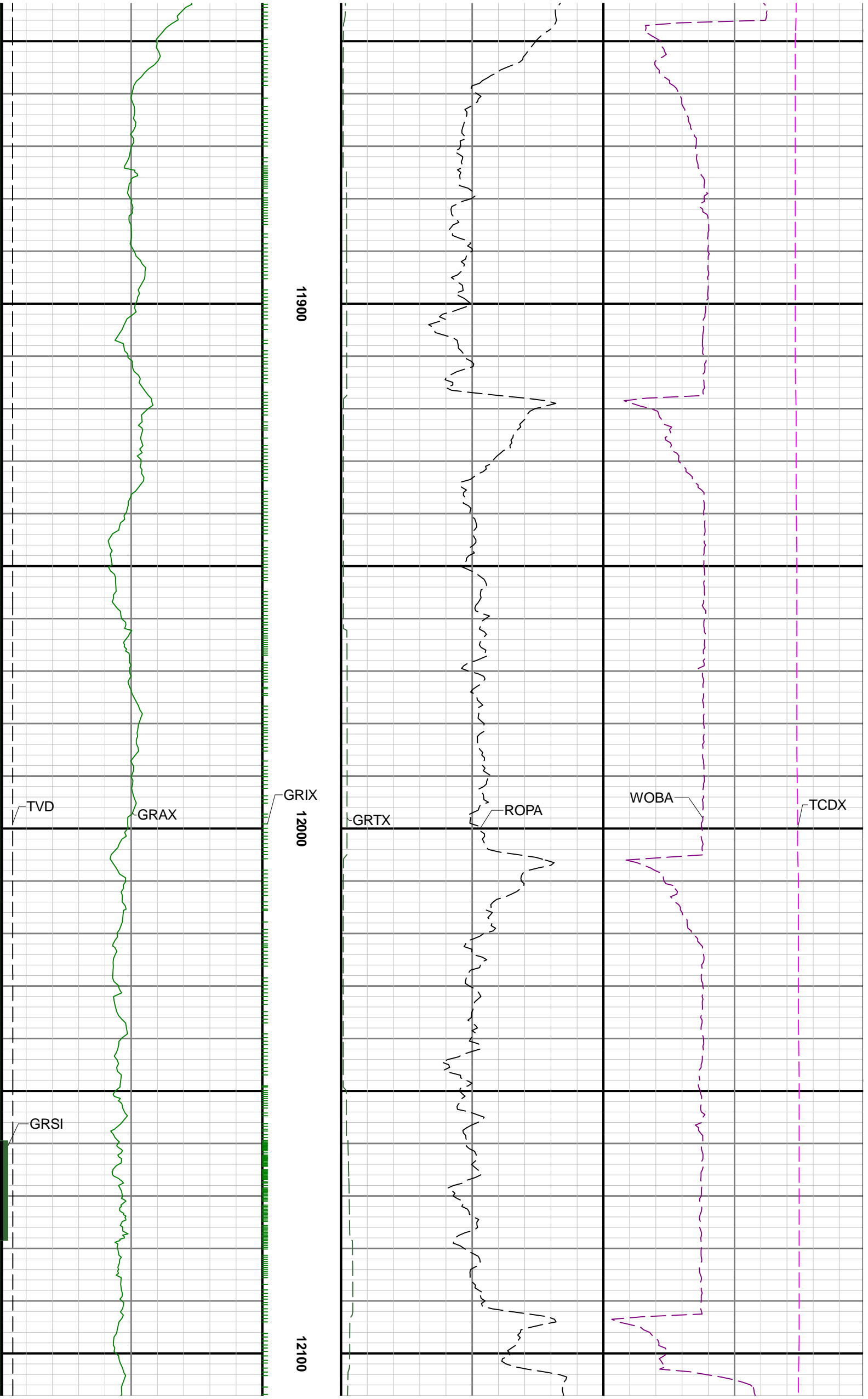
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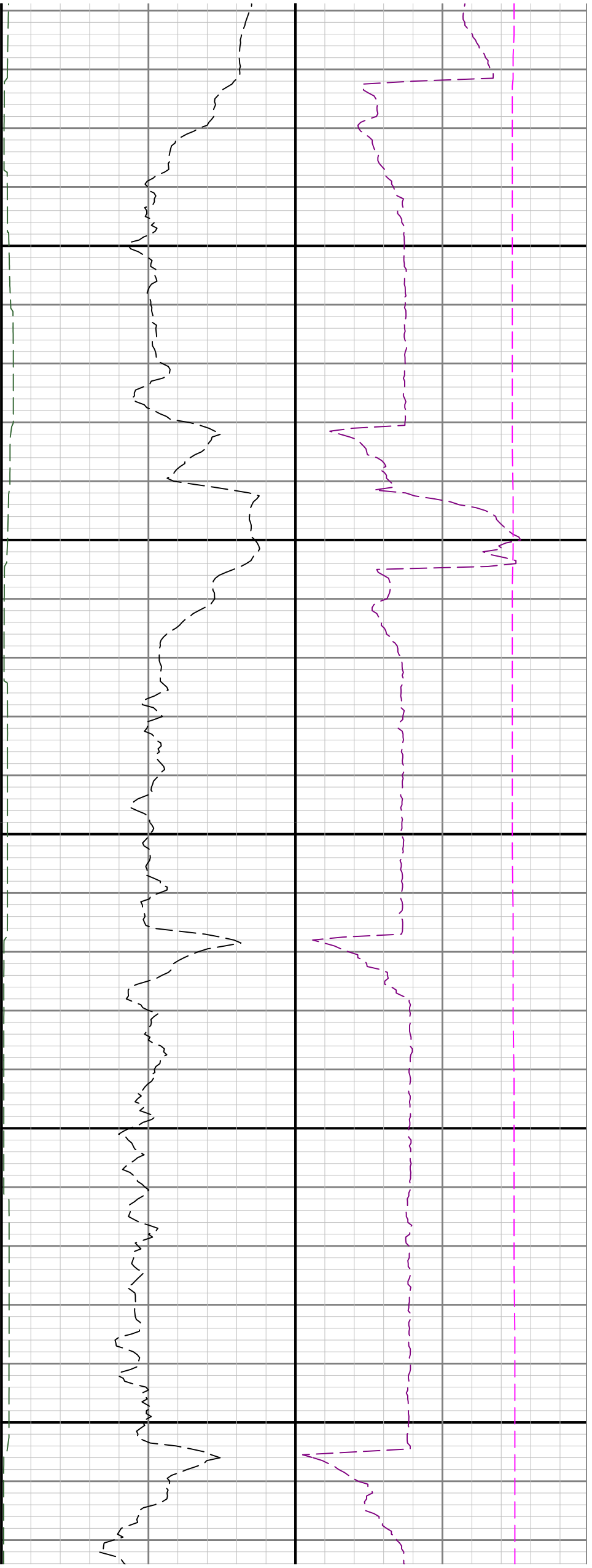
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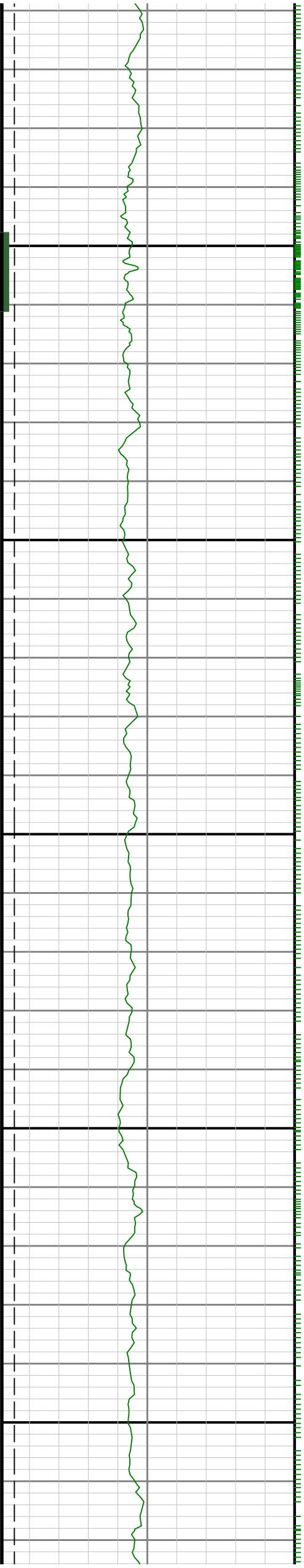


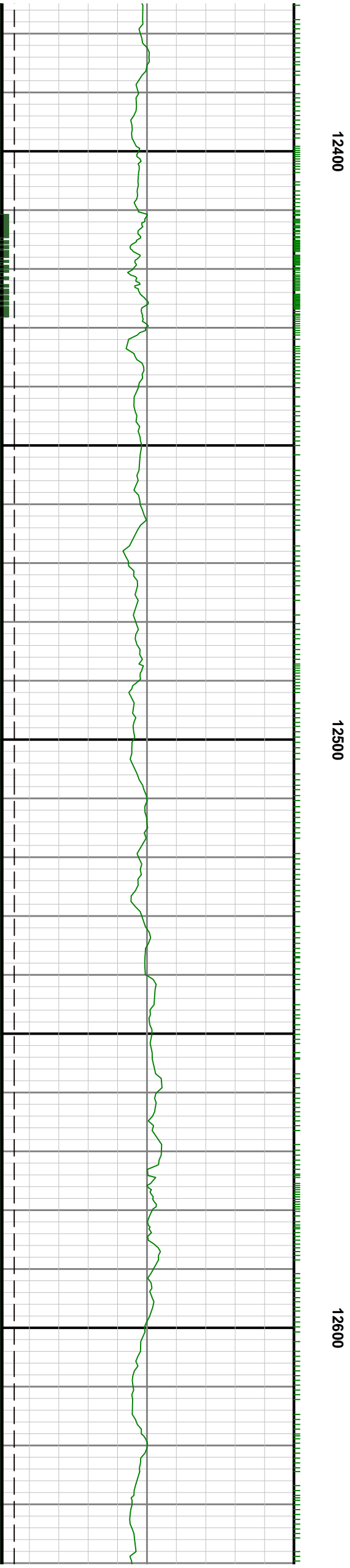
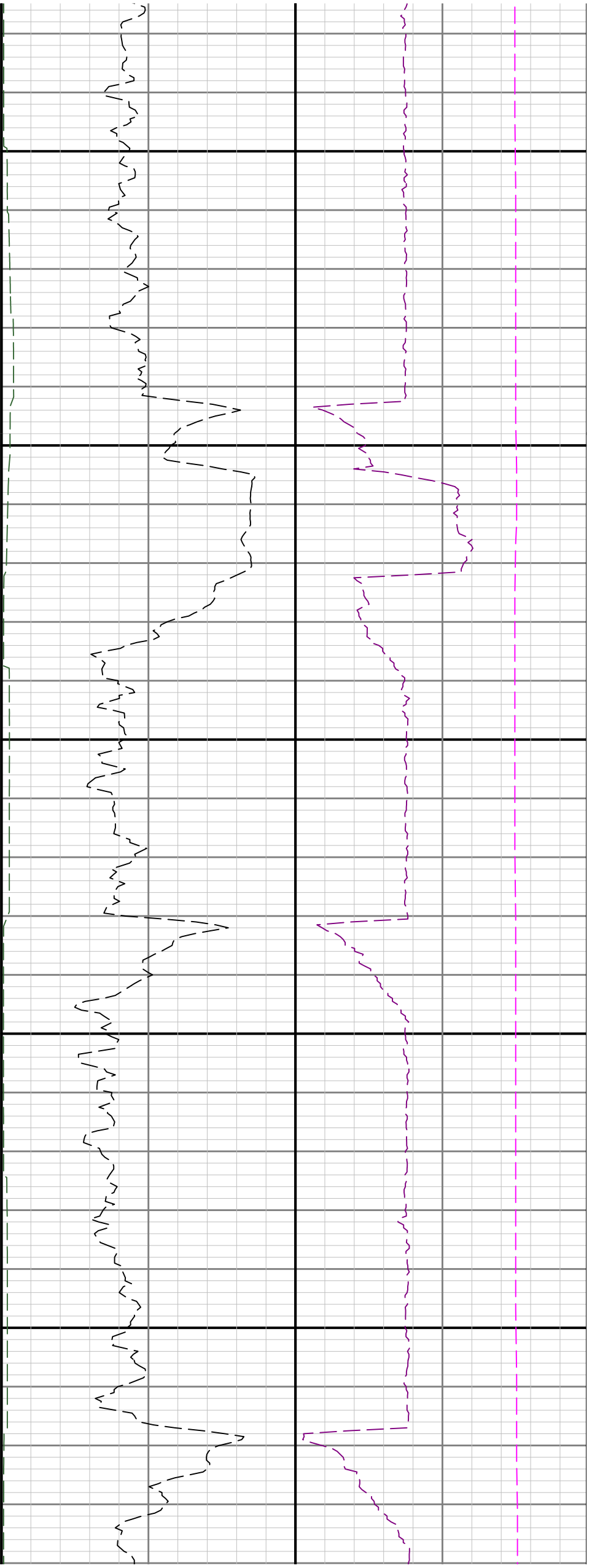


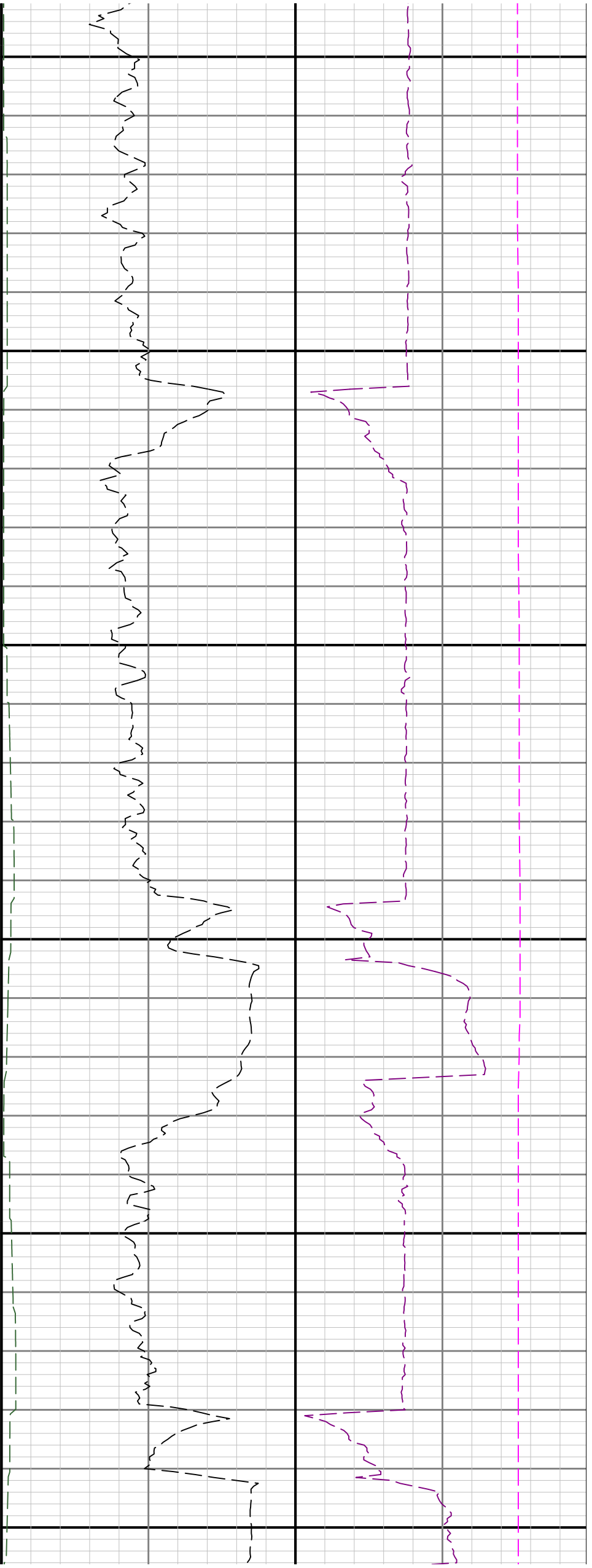


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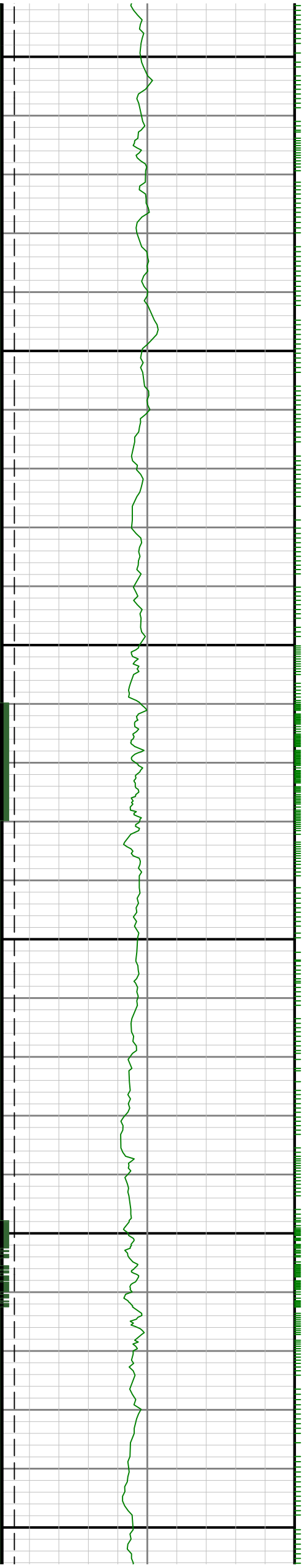


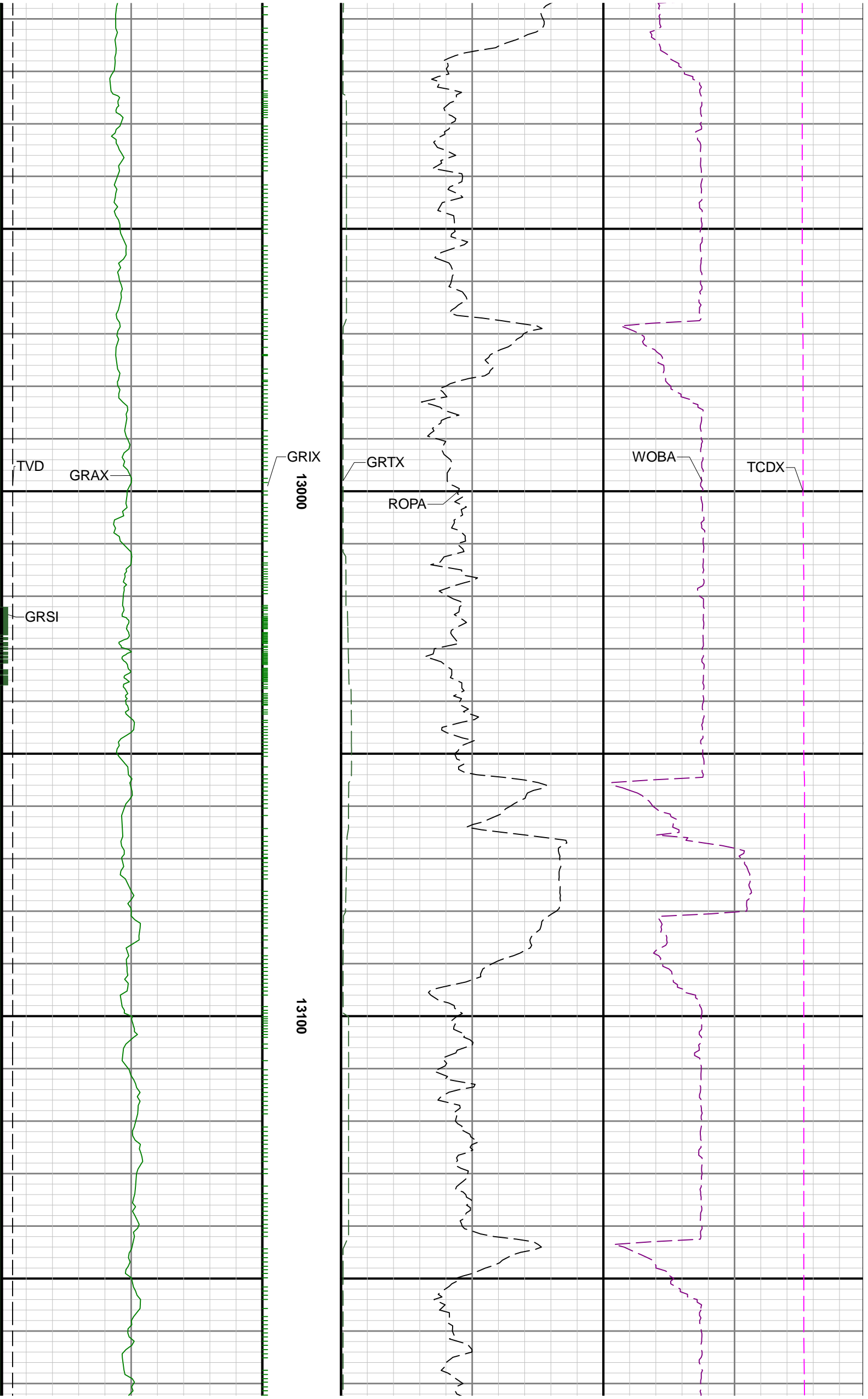


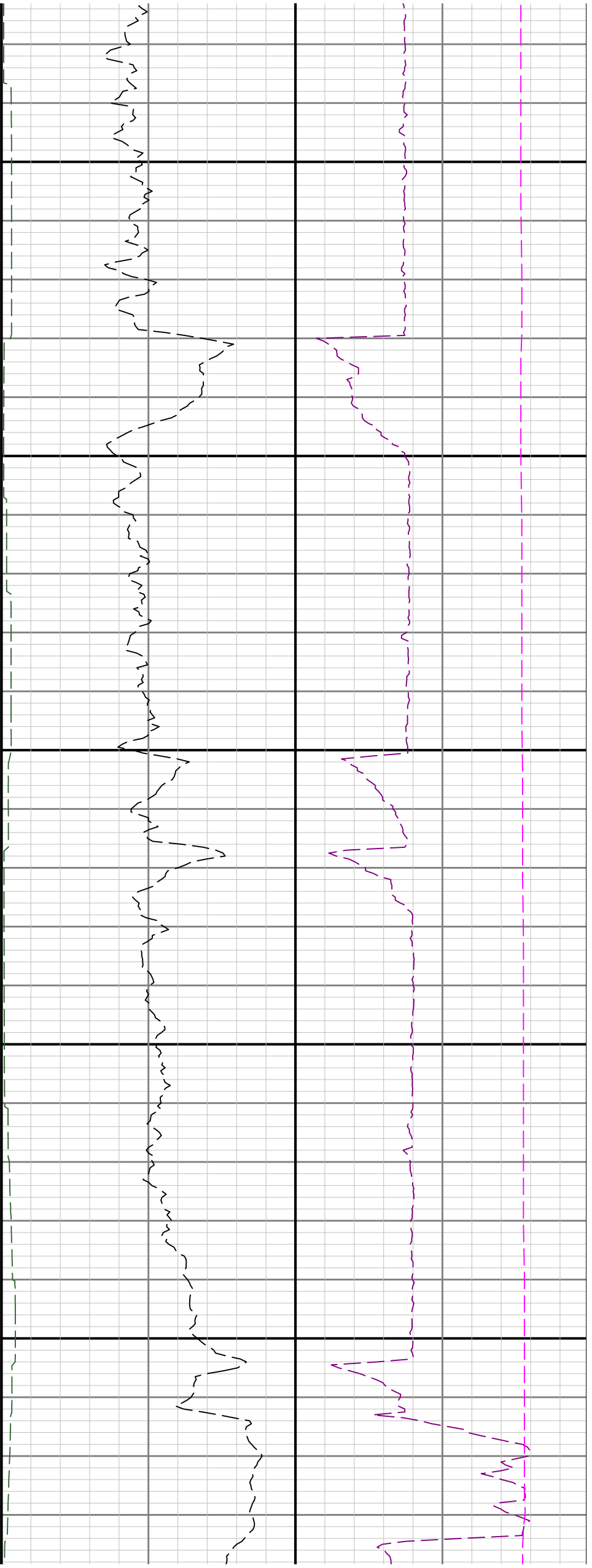
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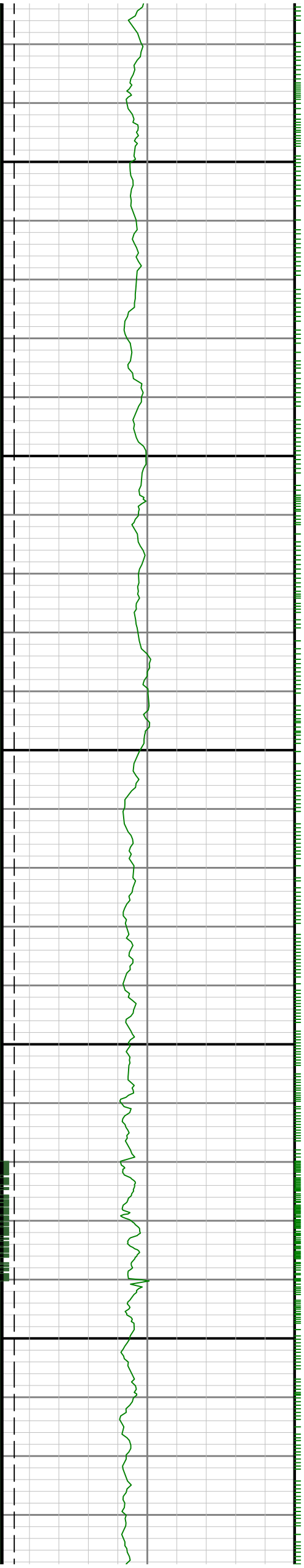




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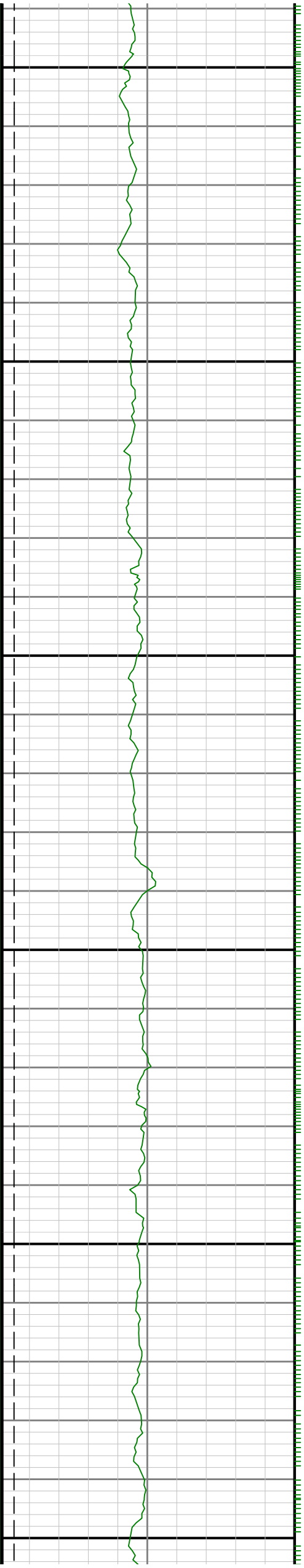


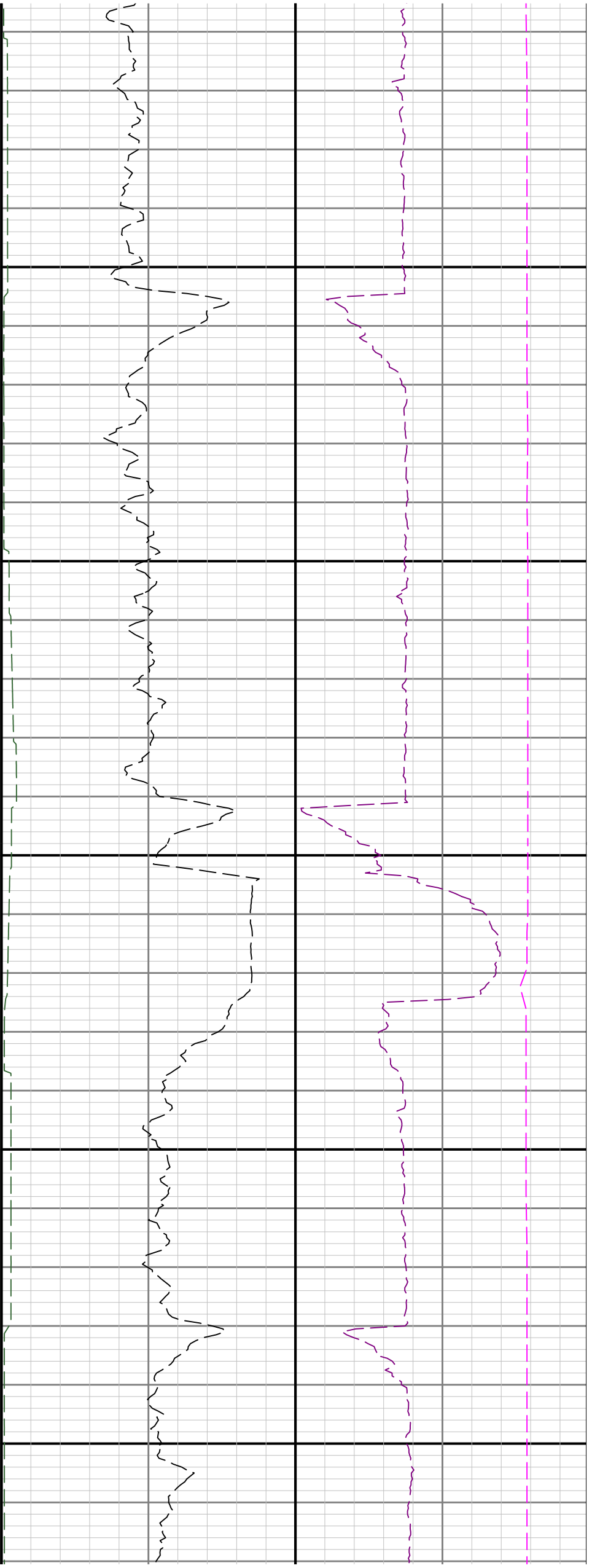


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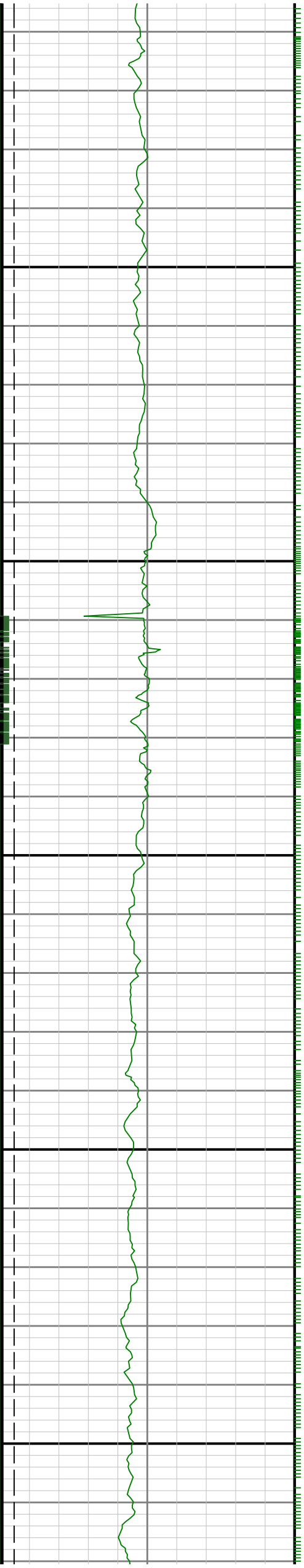
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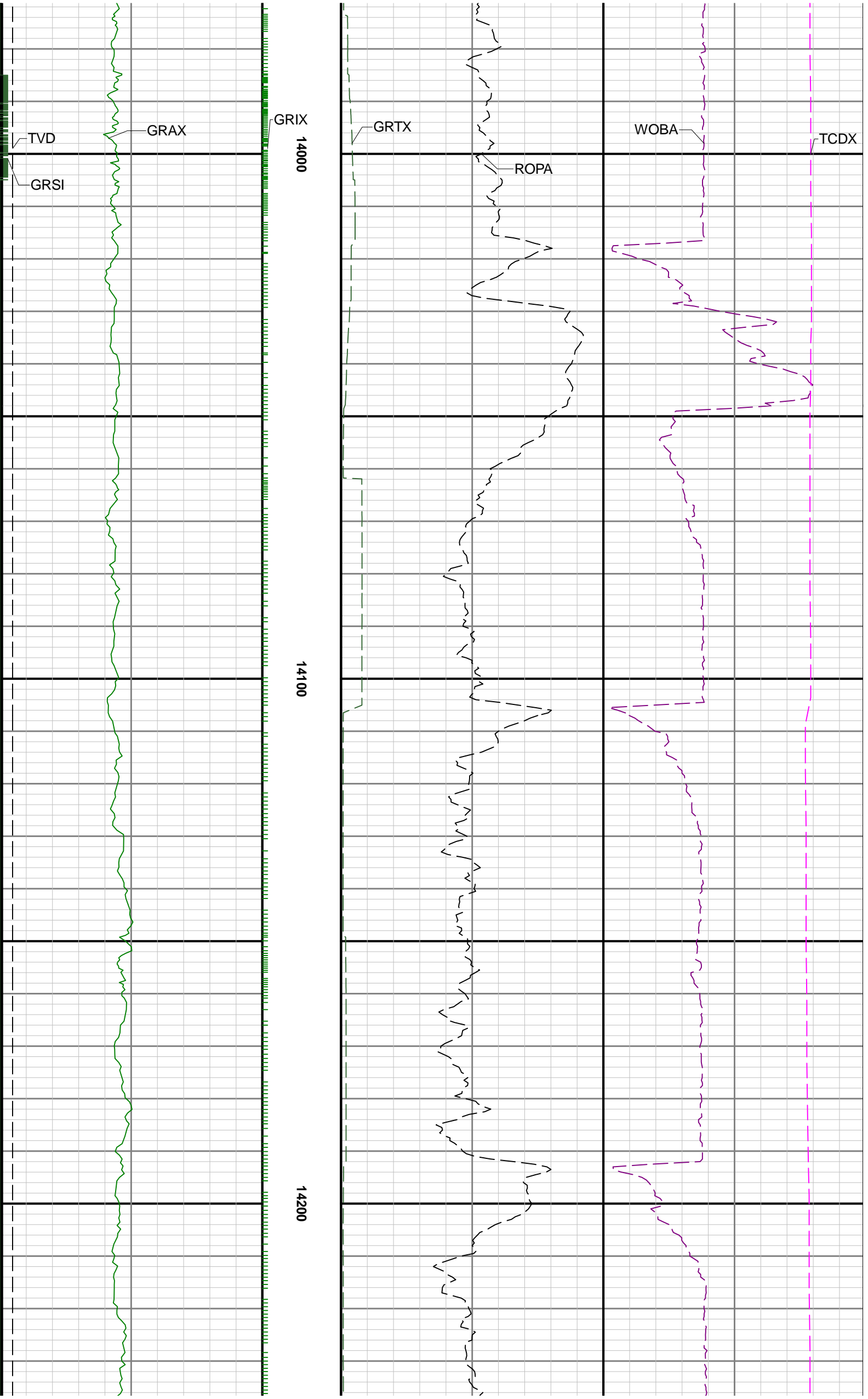




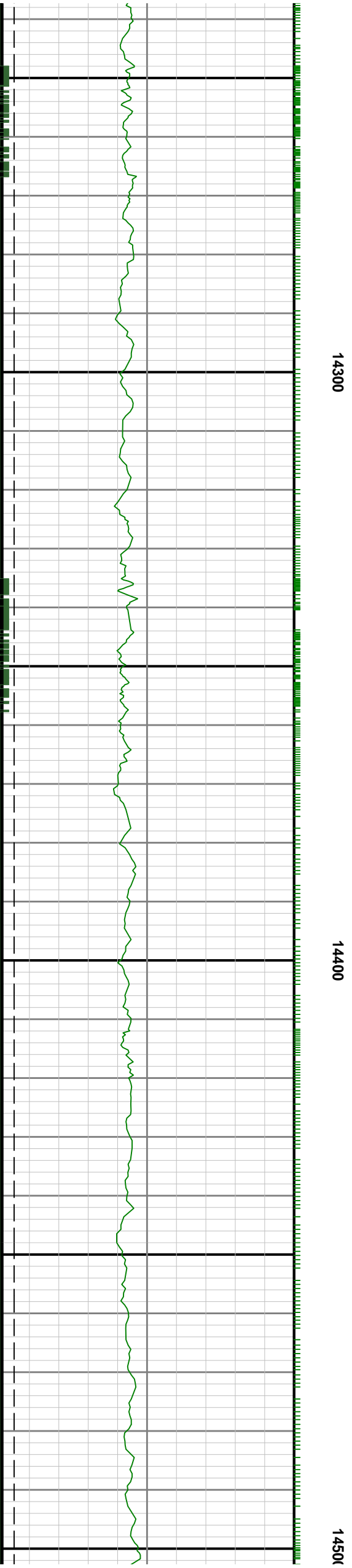
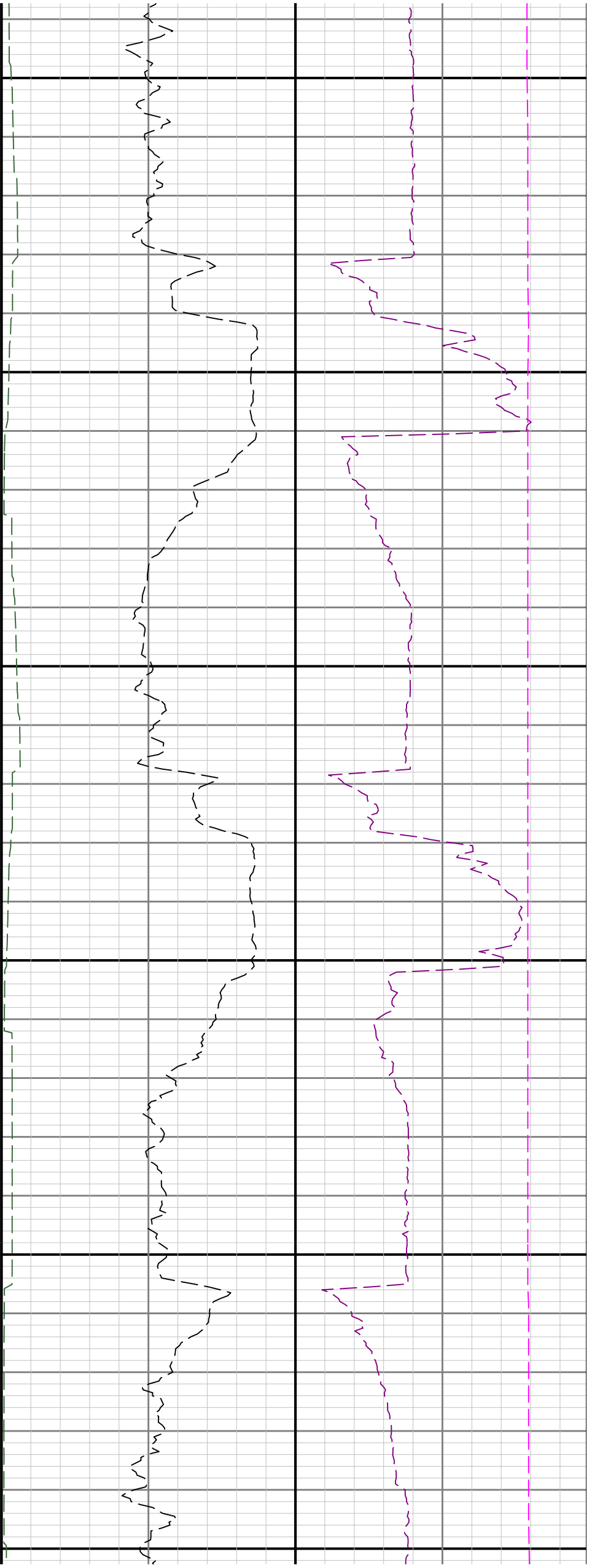
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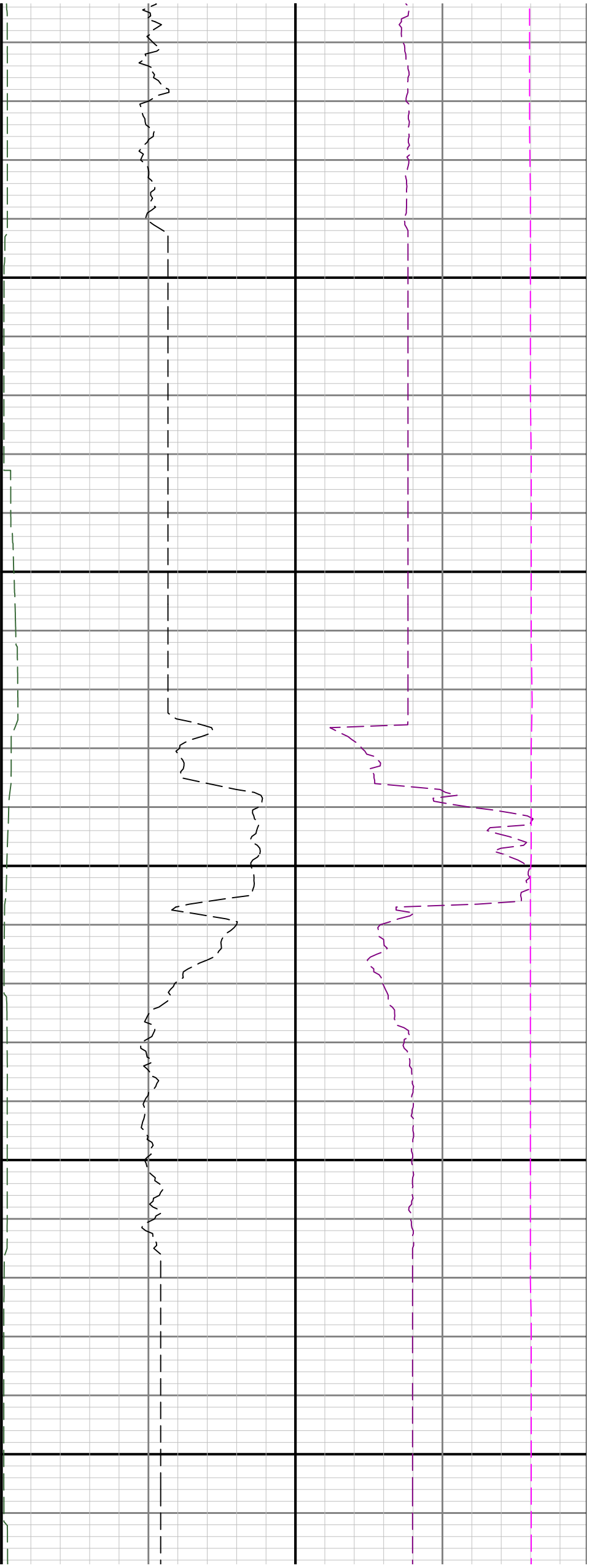
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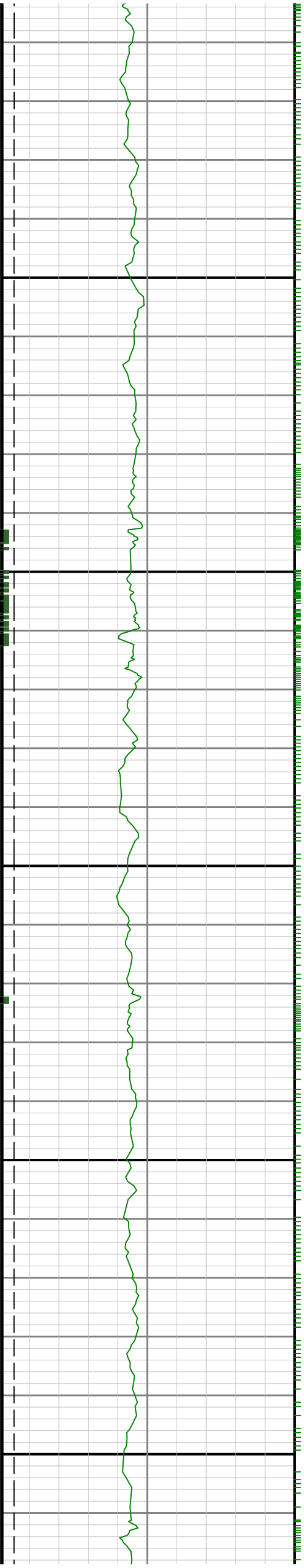


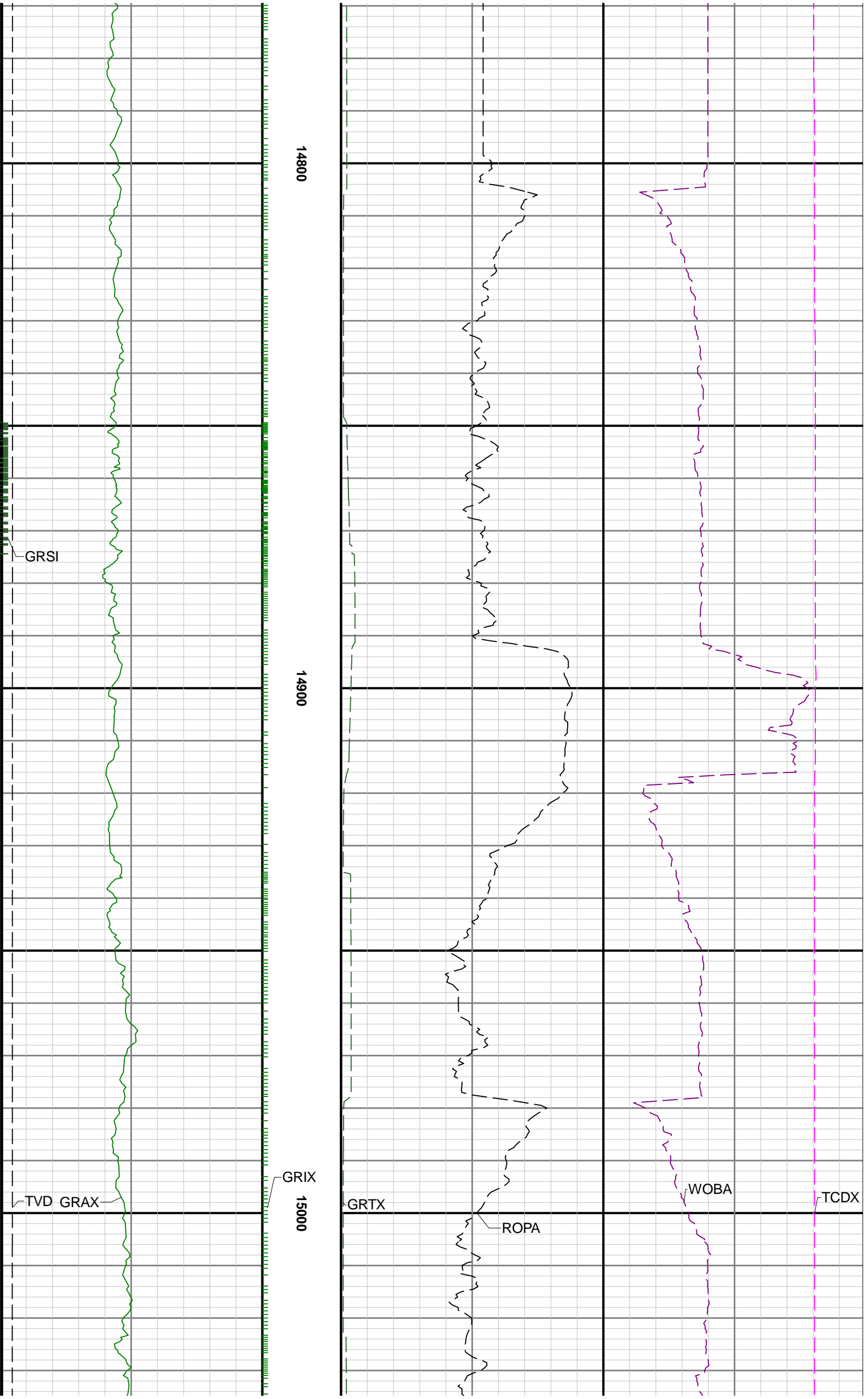


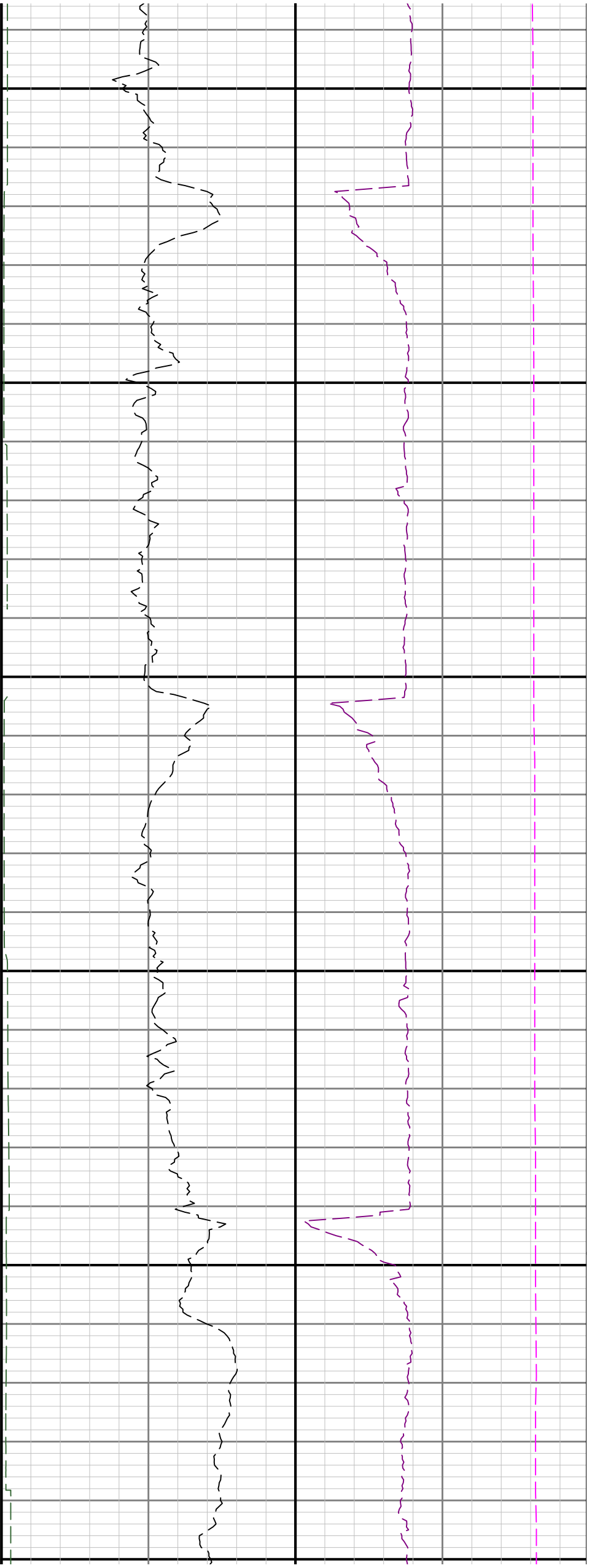


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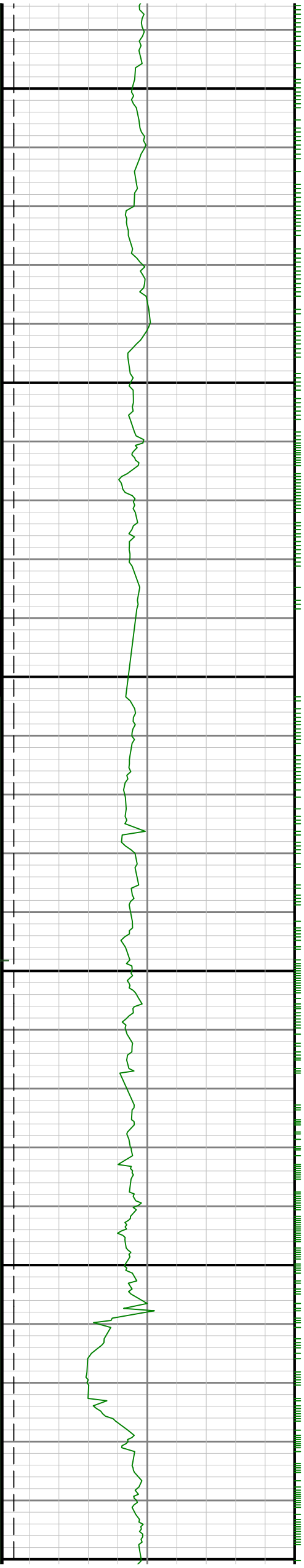


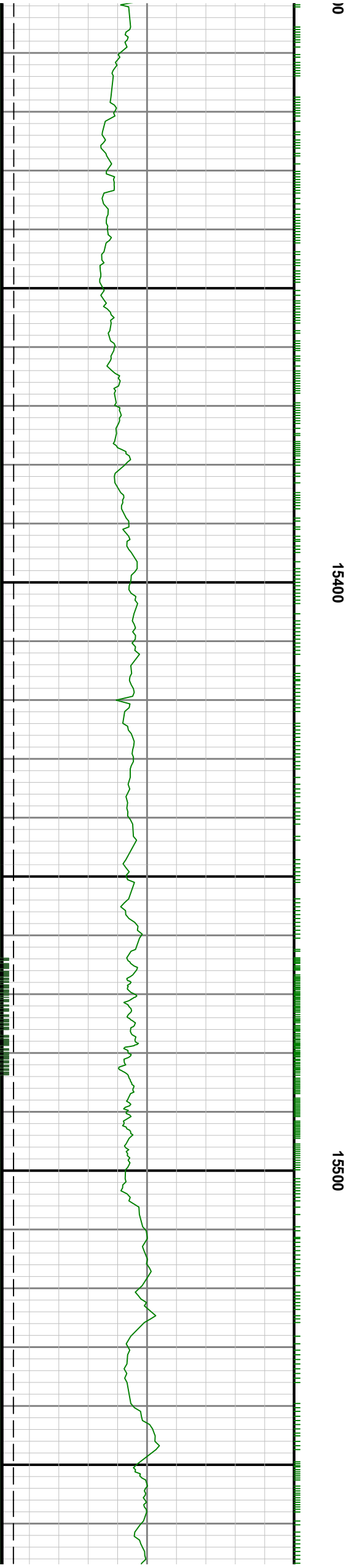
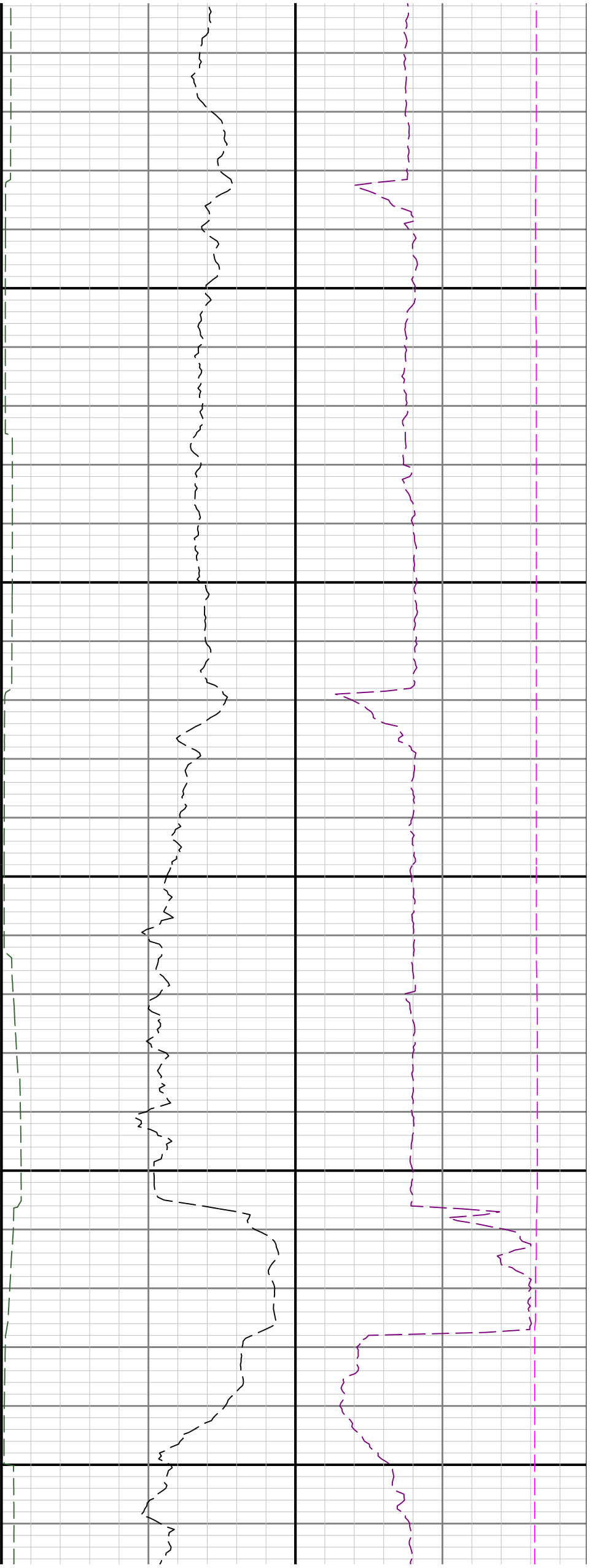


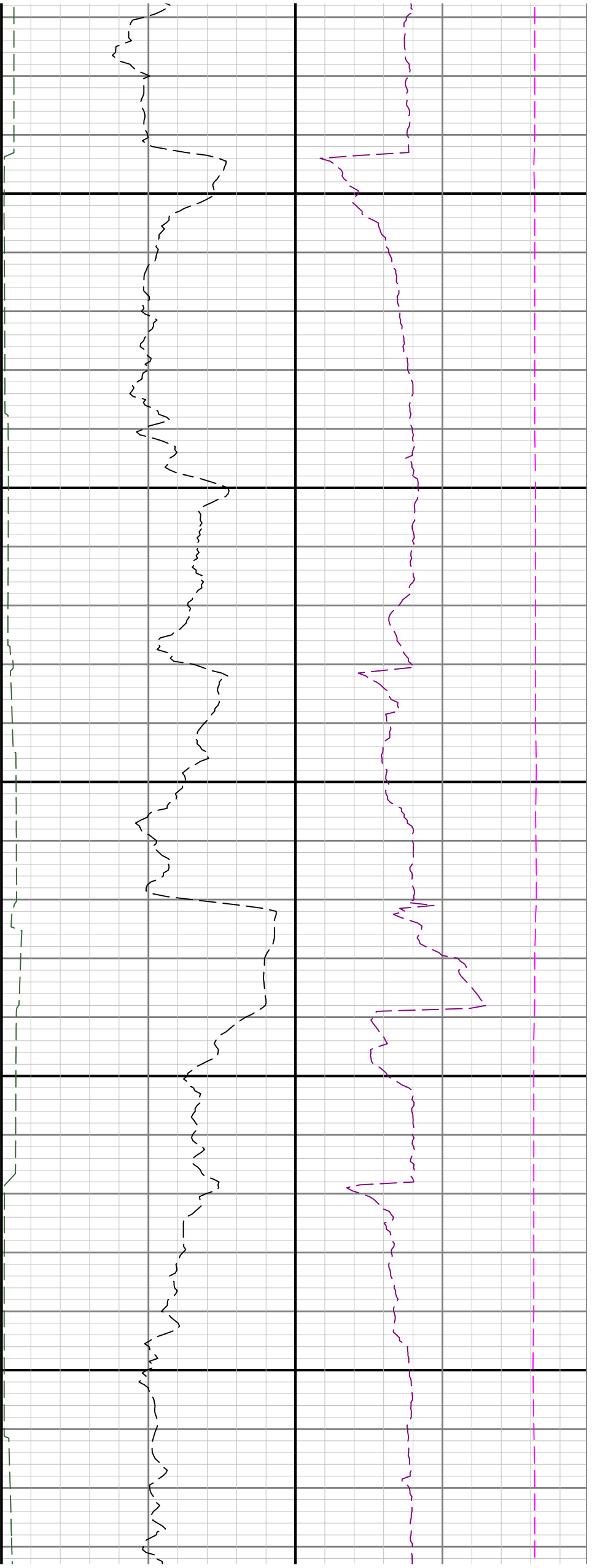
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15200

153



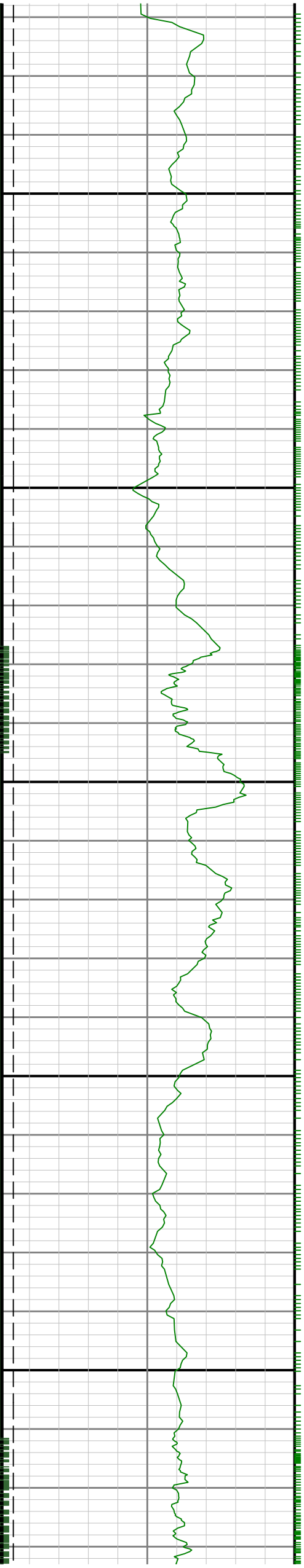


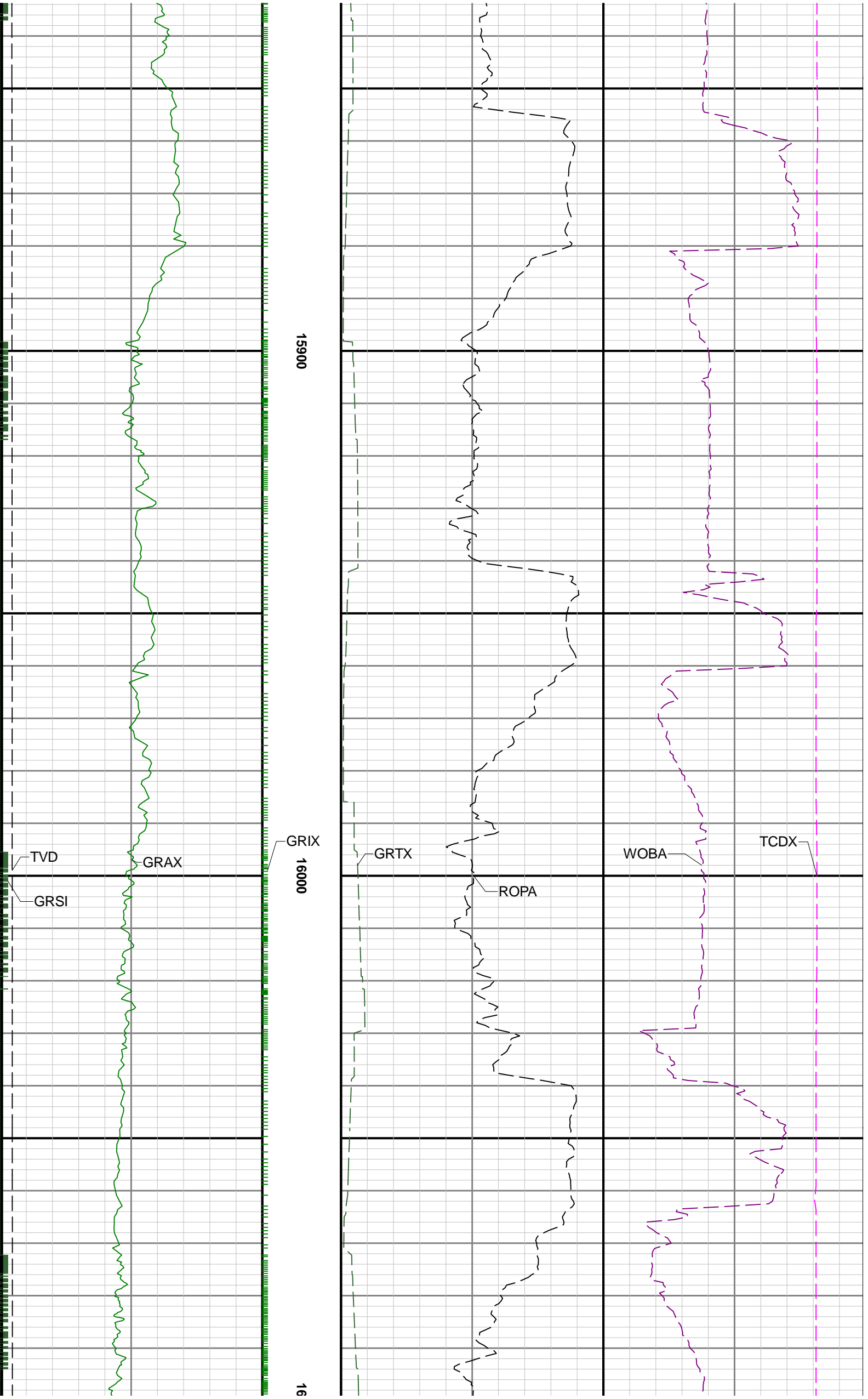


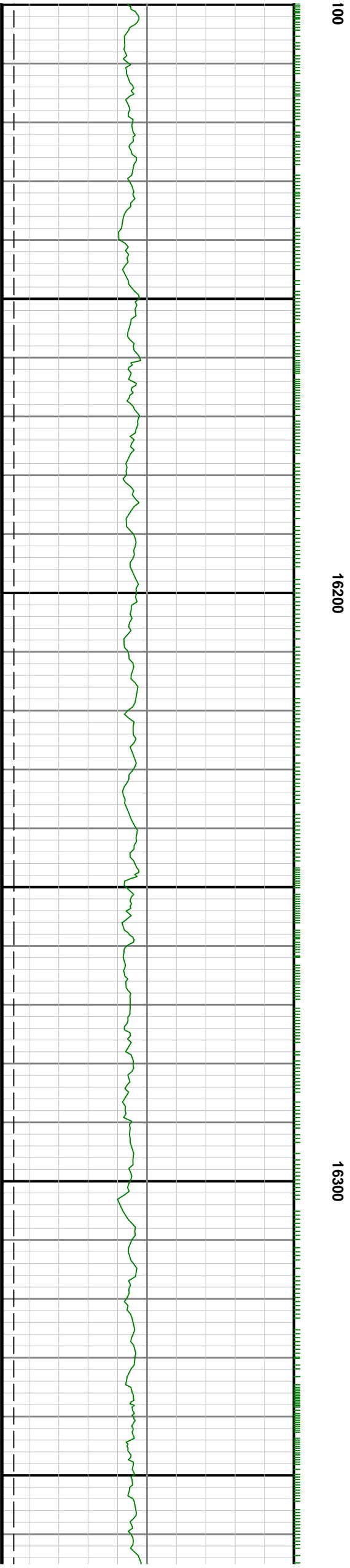
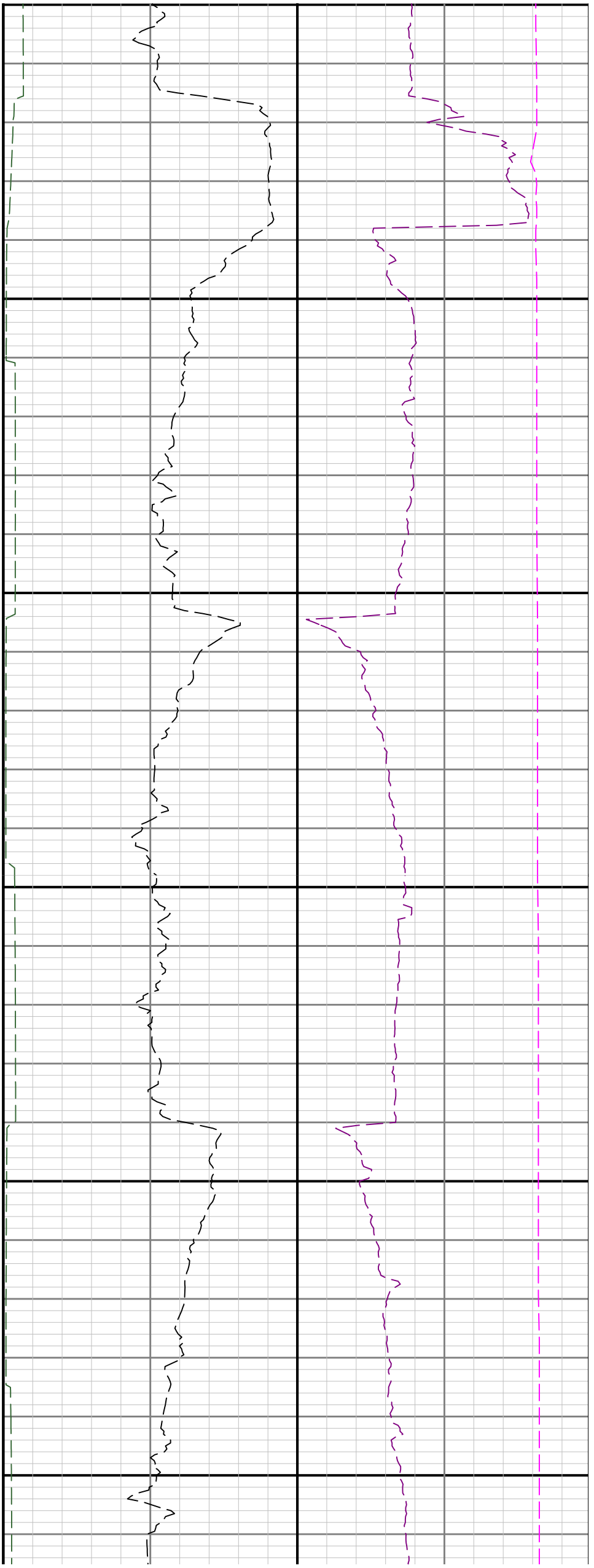
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15700

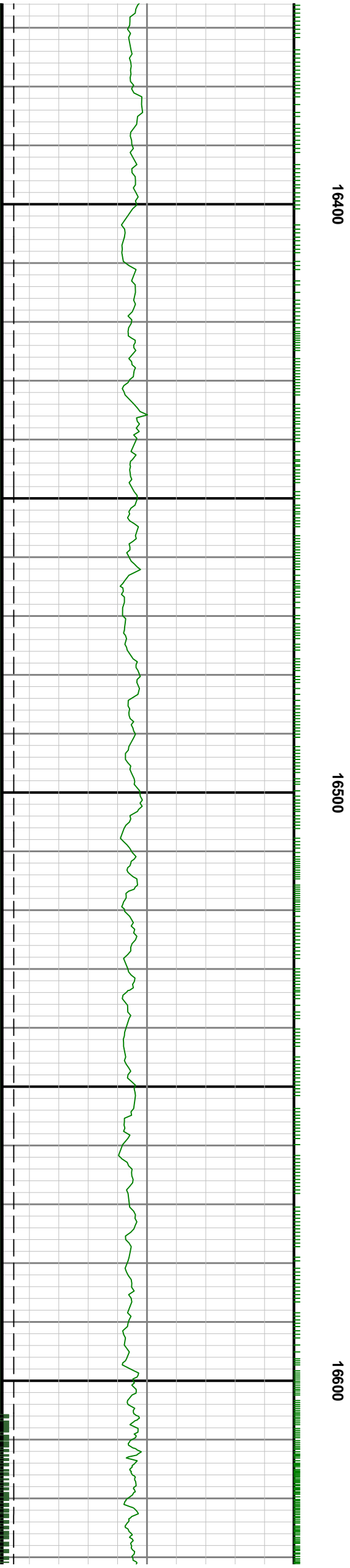
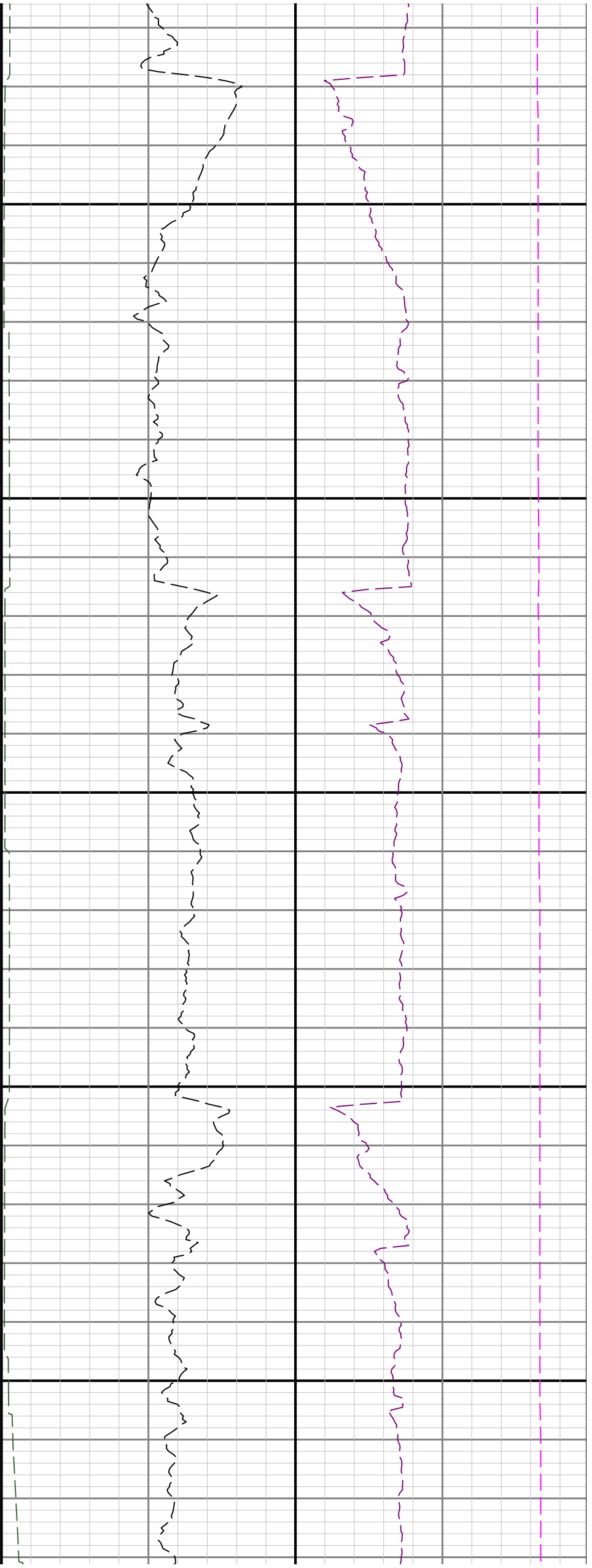
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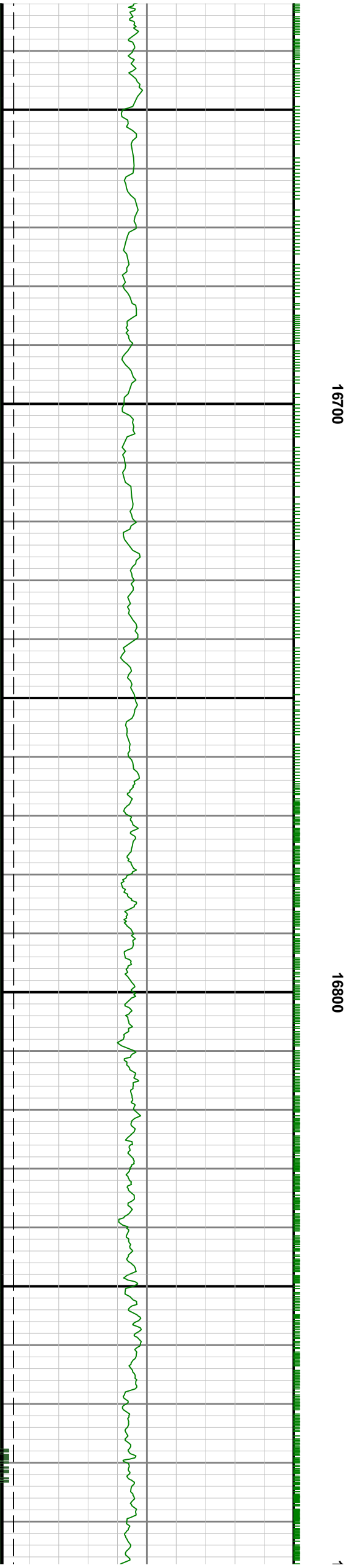
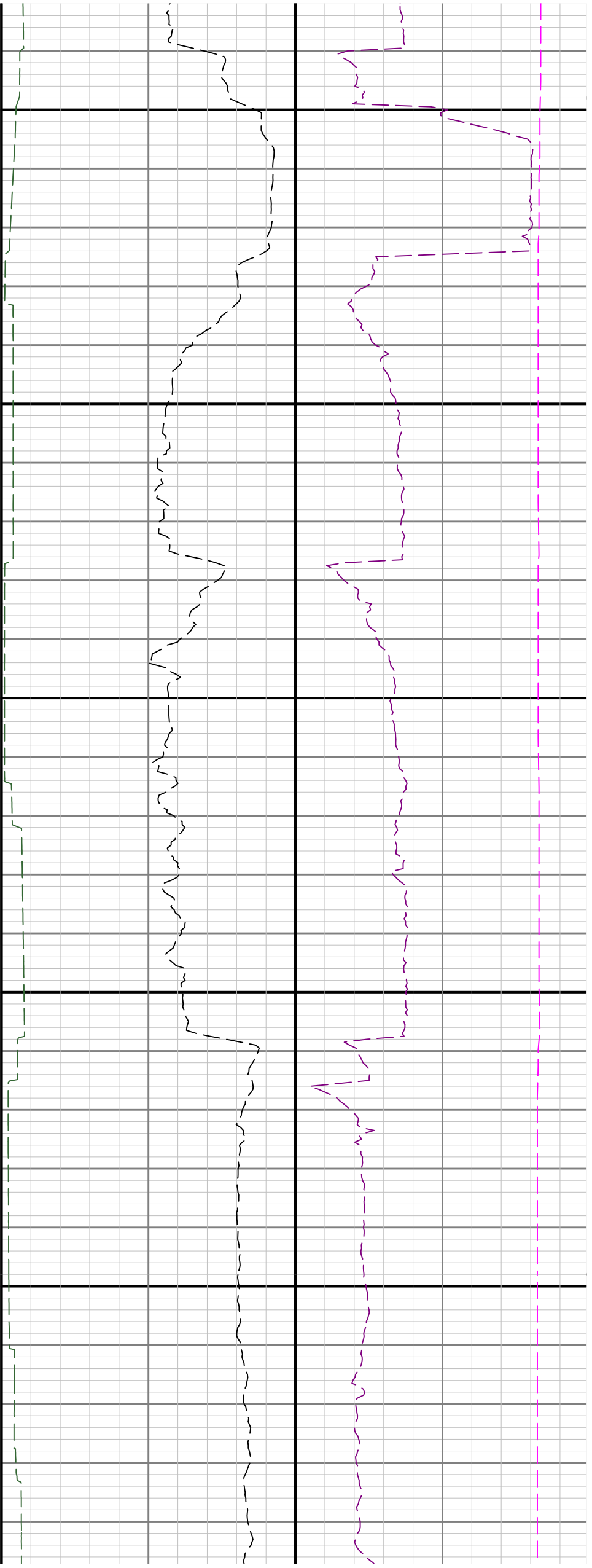


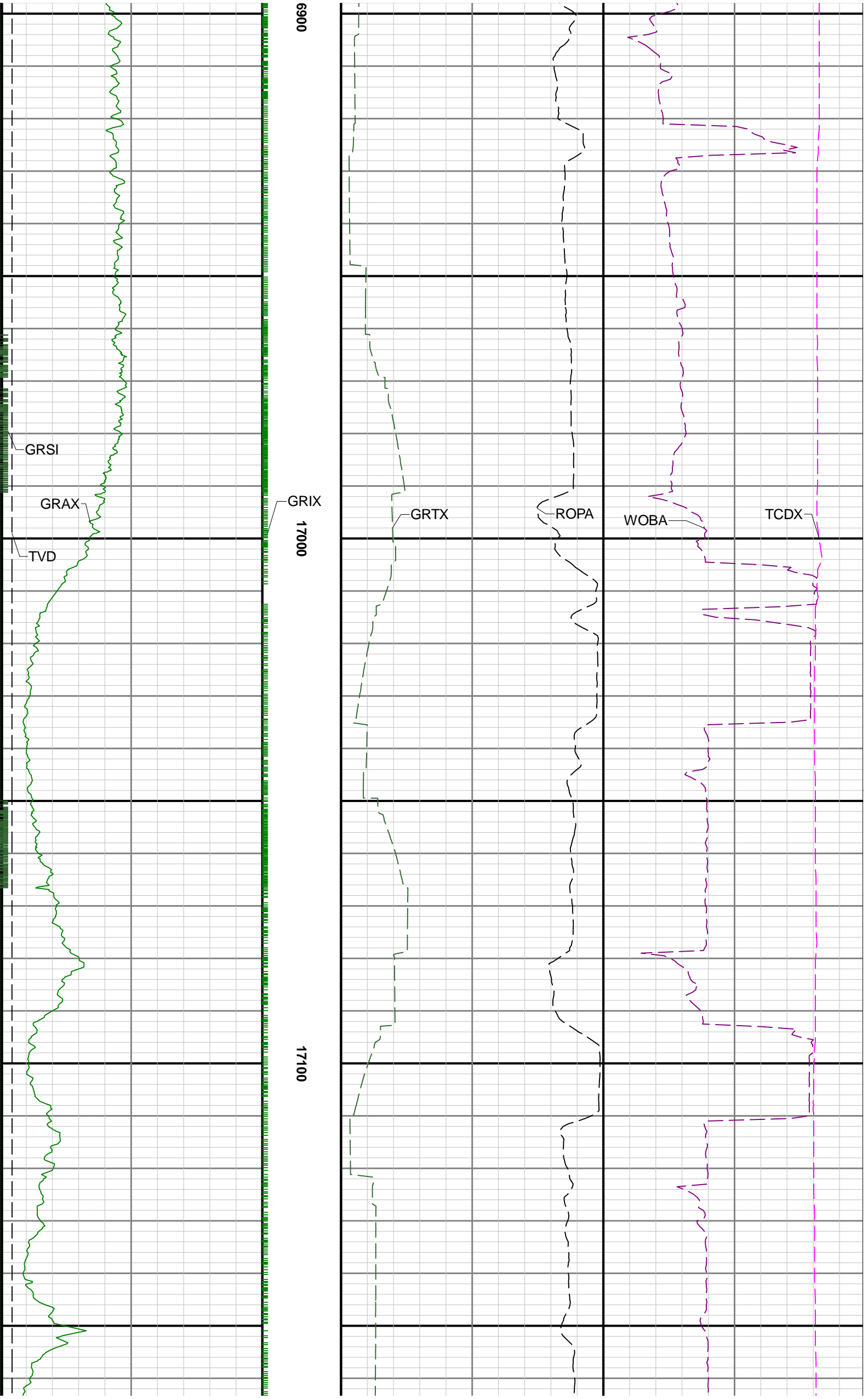


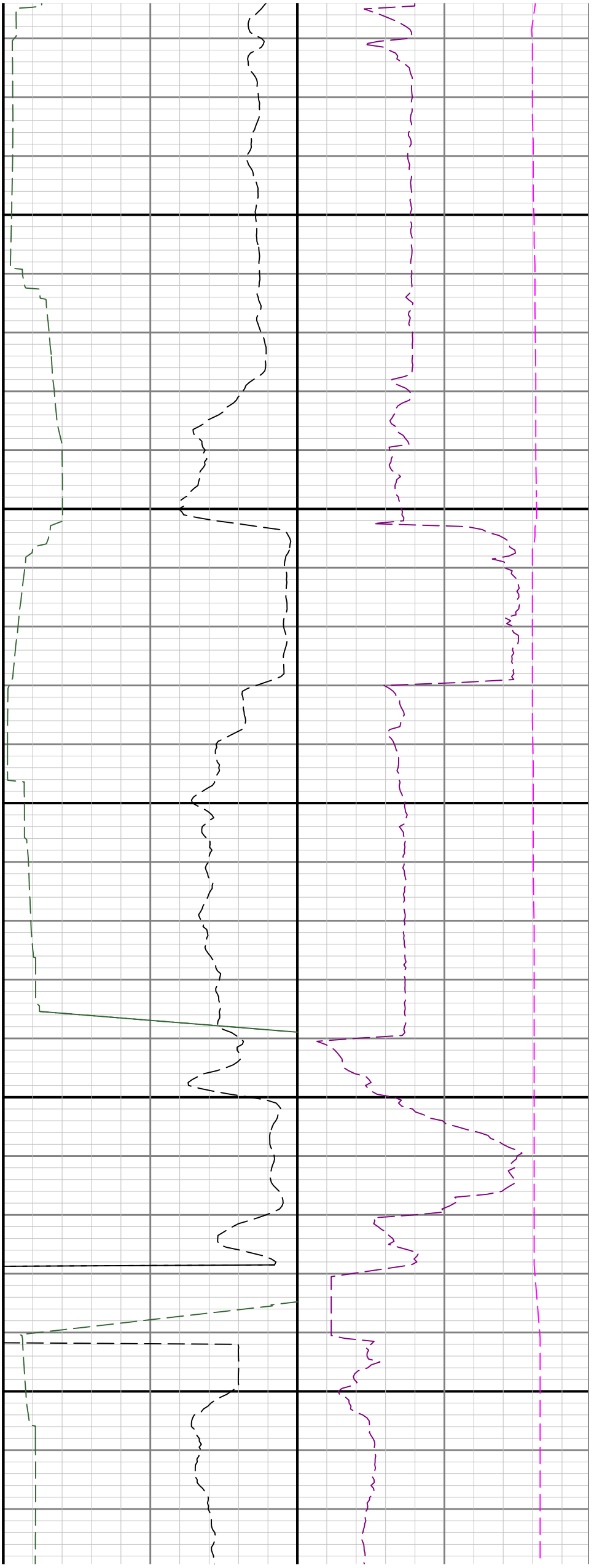










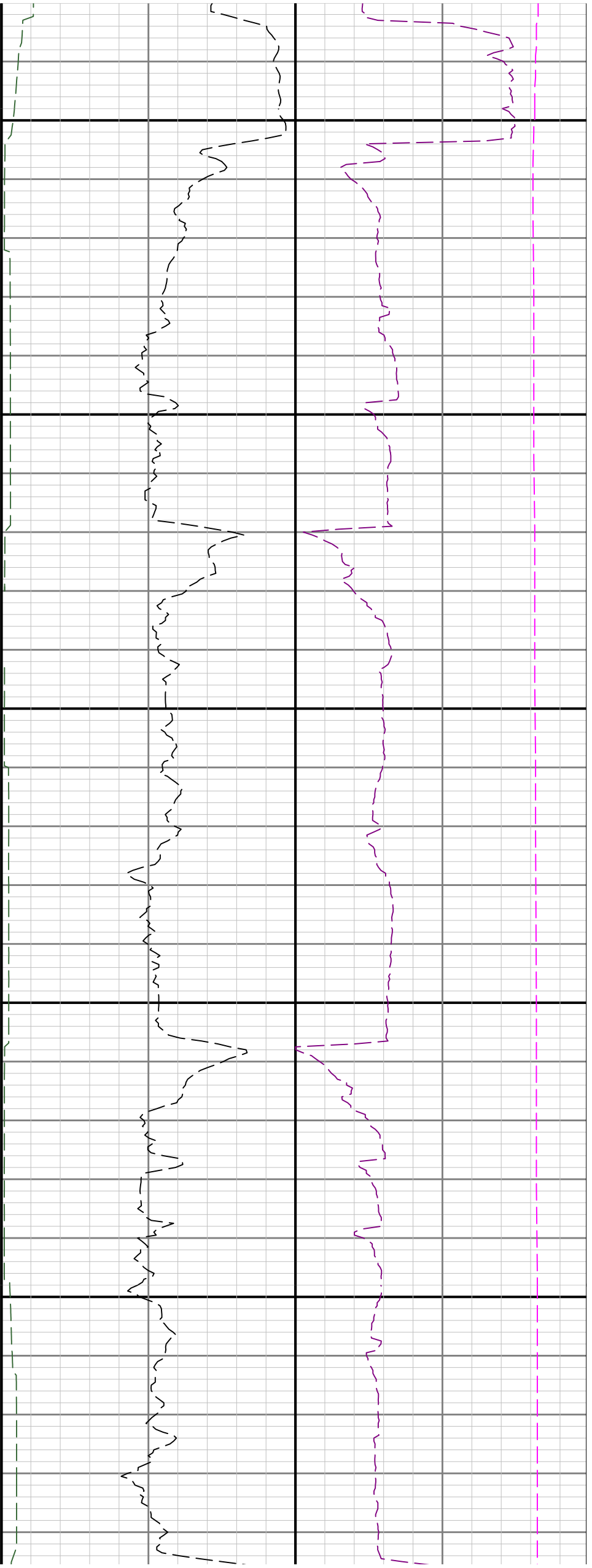


17200

17300

17400

See Remark 3



17500

17600

