



LWD REALTIME LOG

Gamma Ray

Scale:	Company: Anadarko												
	Well: Damore 18-6HZ												
	Field: Wattenberg												
	County: Weld		Country: United States										
	Depth Reference:												
Driller's Depth				State: Colorado									
Status:				Surface Location:				Other Services:					
Final Print				Latitude: 40° 24' 03.074" N				Directional Surveys					
API No: 05123507760000				Longitude: 104° 56' 31.837" W									
Job ID: 110322491				SEC: 18 TWN: 5N 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.: 4948.00 ft				Elev. DF: 4948.00 ft					
								Elev. GL: 4922.00 ft					
Dates		Interval		Magnetic Field Reference									
From: 2020-03-31		Drilled (ft)		Logged (ft)		Azi Reference North:		True Dip Angle: (deg)		66.52			
To: 2020-04-02		Top: 1911.00		Top: 1911.00		Total Magnetic Field Strength: (nT)				52351			
Spud: 2020-03-31		Bottom: 17728.00		Bottom: 17672.00		Mag to Reference North Correction: (deg)				7.97			
Borehole Record													
Hole Size (in)		From (ft)		To (ft)		Size (in)		Weight (lb/ft)		From (ft)		To (ft)	
13.500		26.00		1911.00		9.625		36.00				26.00	
7.875		1911.00		17728.00									
Mud Record													
Type		From (ft)		To (ft)		Hole Size (in)		Interval (ft)		Inc Az (Start)		Inc Az (End)	
Synthetic Based Mud		1911.00		17728.00		7.875		15817.00		22.59 236.40		92.05 90.96	
Acquisition System													
Cadence		RT 5.5		Software Version		Rig: Precision 564		Other		Unit: D & E			
Plot Studio		5.5.8765.1				Contractor: Precision Drilling				District: RMA			

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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
						Top	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	1	7.875	PDC	3.00	Steerable	1911.00	17672.00	1911.00	17728.00	2020-03-31 00:00	2020-04-02 14:22	45.06

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Joshua Monroe	2020-03-31	2020-04-02	Matt Yule	2020-03-31	2020-04-02			

Mud Properties Record

Date / Time	Run No.	Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2020-03-31 09:00	1	2080.00	Synthetic Based Mud	9.2	14	N/A	N/A	76.9/23.1	Active Pit	53521	0.00
2020-04-01 16:00	1	12672.00	Synthetic Based Mud	9.5	17	N/A	N/A	75.6/24.4	Active Pit	60578	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	EvoOne	14984402	Gamma (single)	8.14	56.07	6.625	2.750
1	EvoOne	14984402	Directional (mag)	9.33	57.26	6.625	2.750

Service and Tool Mnemonics

Mnemonic	Name	Description
MWD	EvoOne - Dir Gamma	EvoOne

Comments

1 Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes logging


- Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
- 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.
- Baker Hughes run 1 utilized 6.50 inch NaviTrak UT services (Gamma Ray and Directional) behind a 7 7/8 inch bit and steerable assembly from 1911 to 17728 feet MD (1858 to 7218 feet TVD).
- Gamma Ray (GRAX) scale is presented 0 to 200 API per customer request.

Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	13606.00	7.875	1	The interval from 13606 to 13617 feet MD (7208 feet TVD) was not logged due to drilling ahead with poor decode.
2	17276.00	7.875	1	The interval from 17276 to 17290 feet MD (7225 feet TVD) was not logged due to drilling ahead with poor decode.
3	17672.00	7.875	1	The interval from 17672 to 17728 feet MD (7225 feet TVD) was not logged due to sensor to bit offset at the end of TD.

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 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

Damore 18-6HZ

Date From: 2020-03-31 00:00

Date To: 2020-04-02 14:14

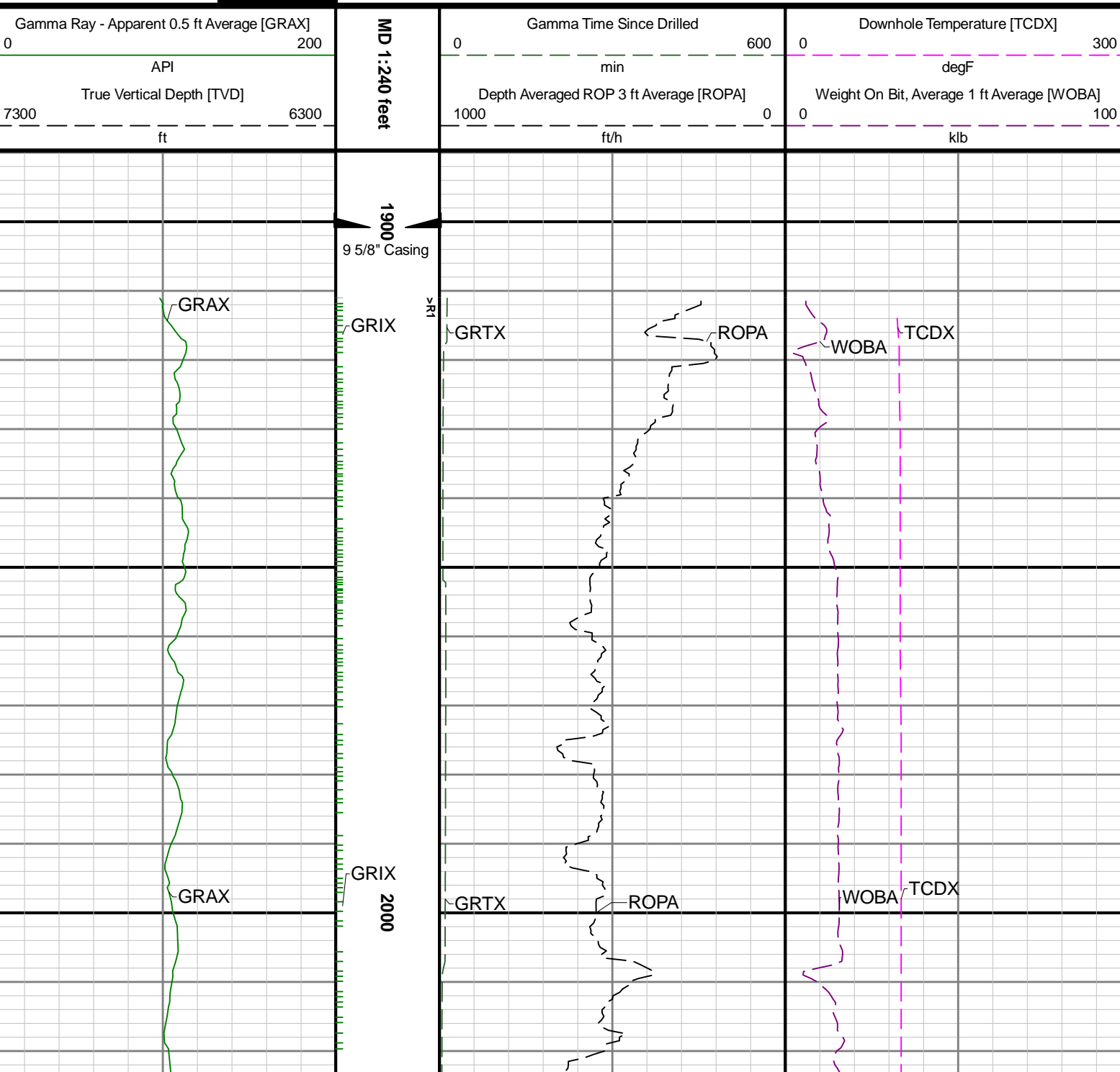
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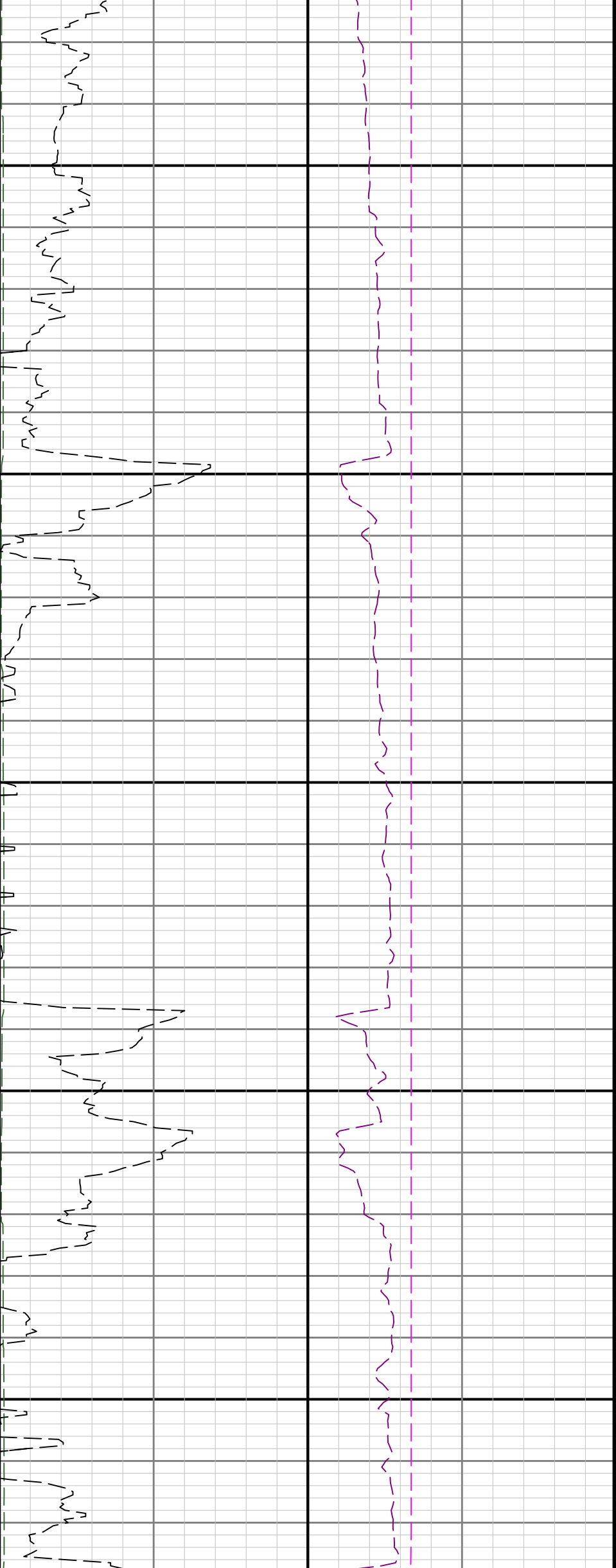
Interval Drilled: (ft)

Interval Logged: (ft)

1911.00 - 17728.00

1911.00 - 17672.00

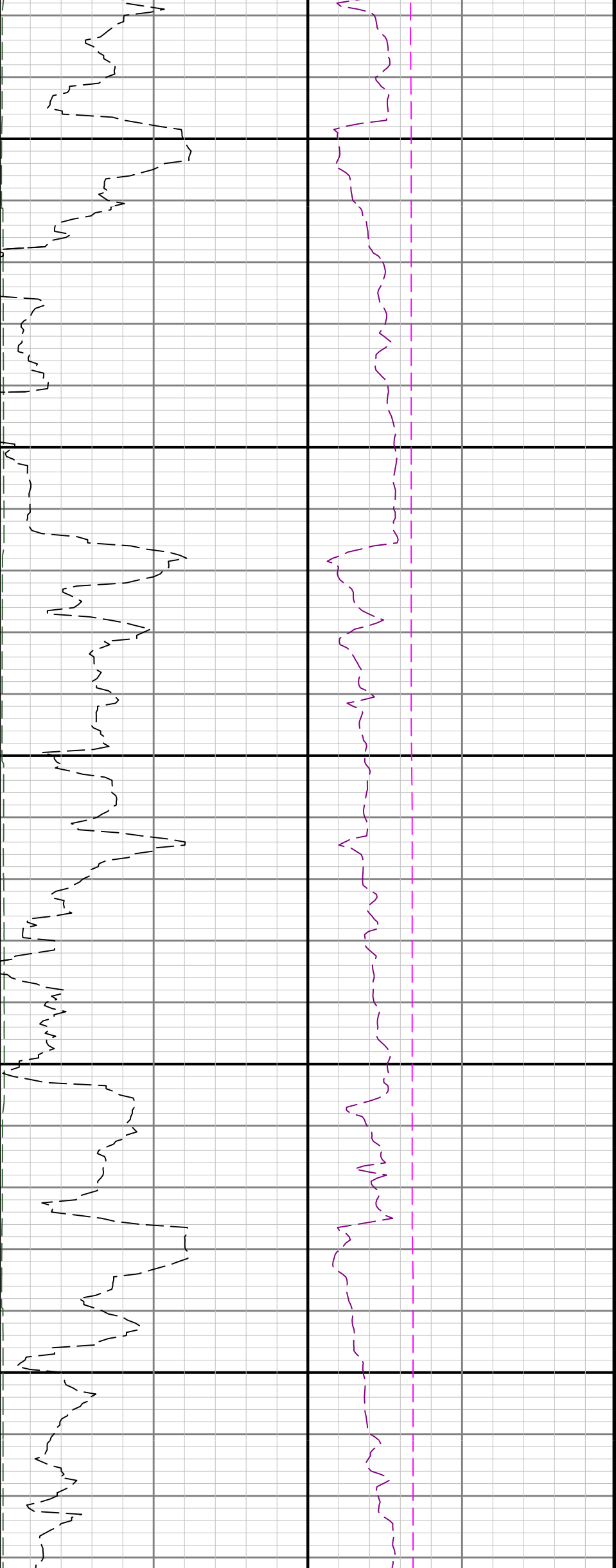




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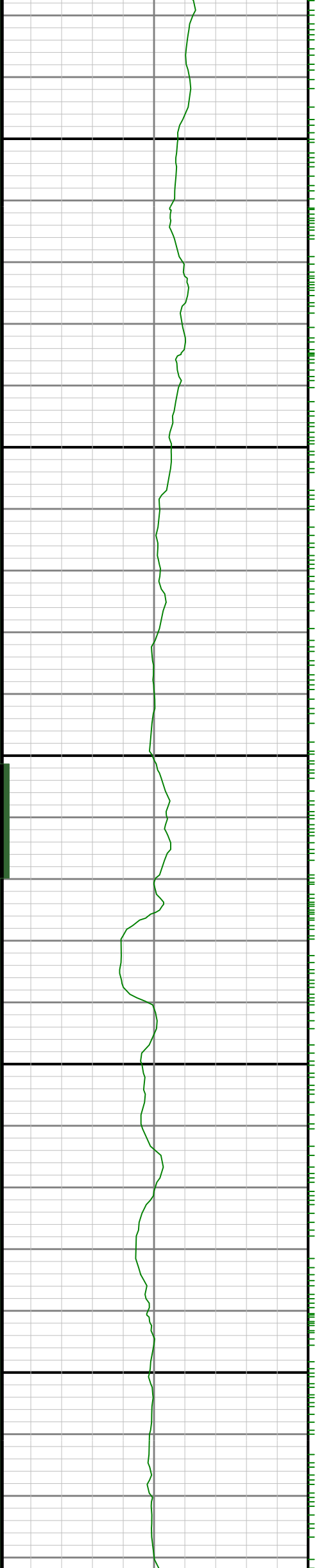
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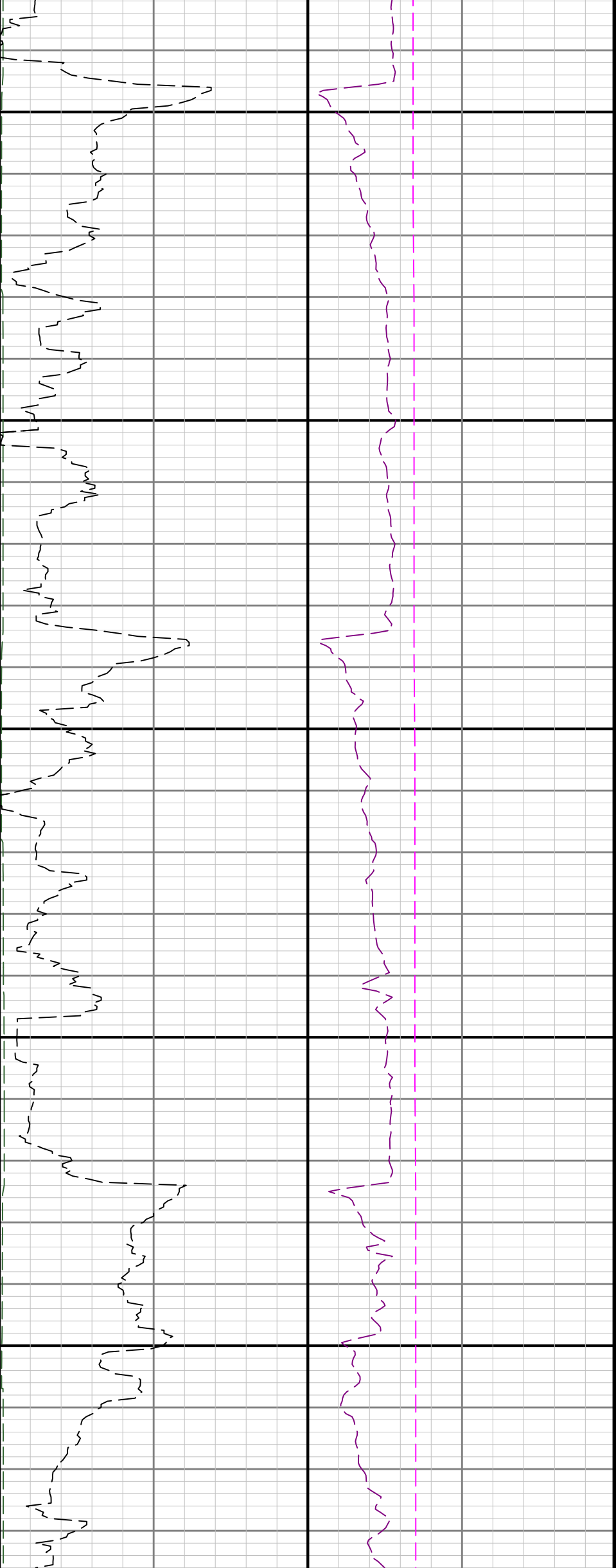


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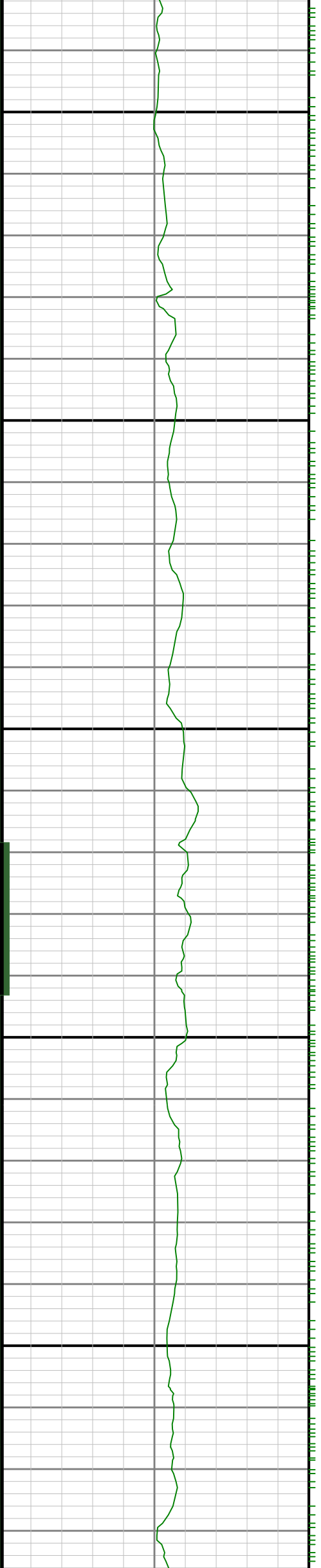
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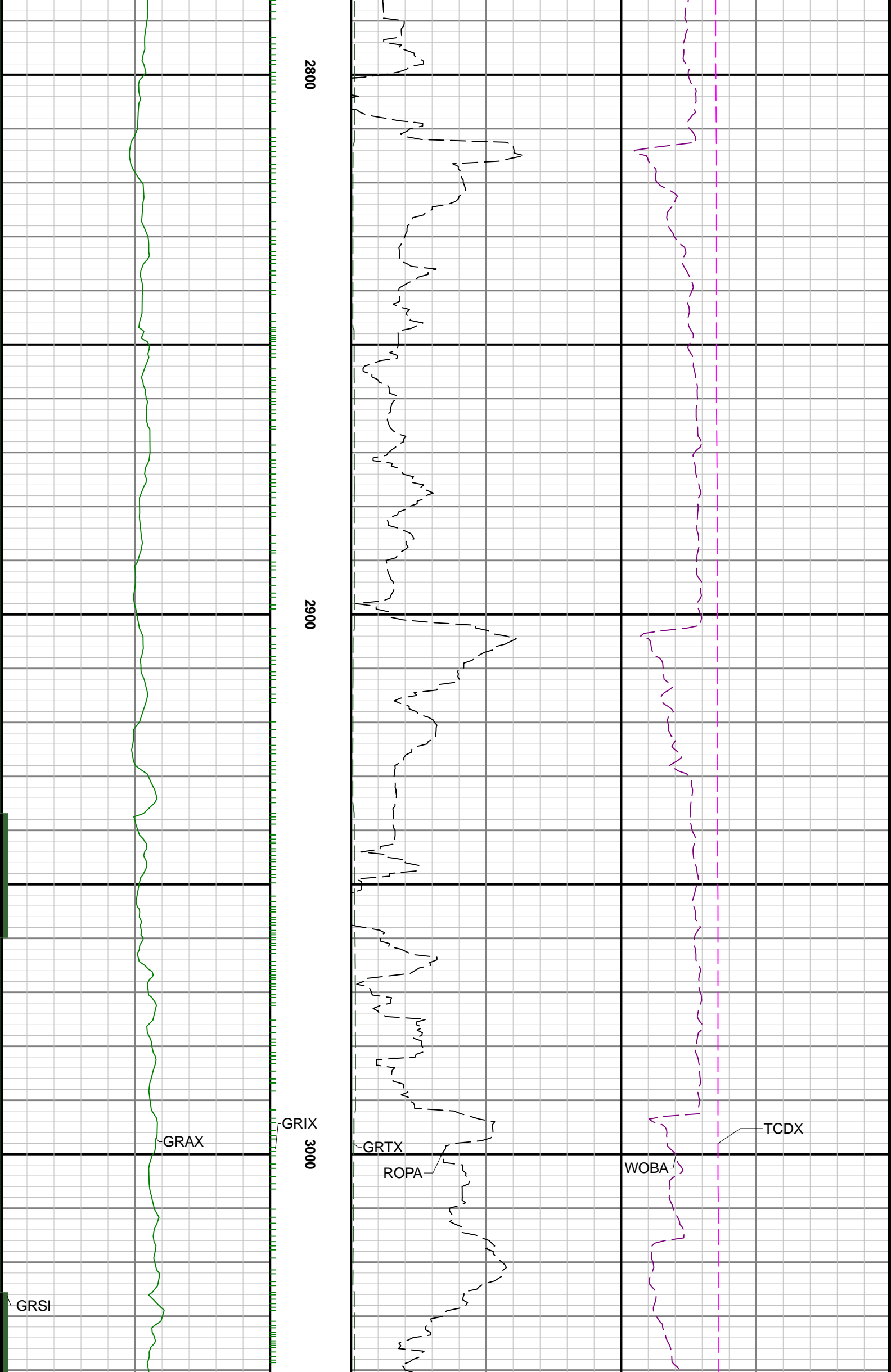


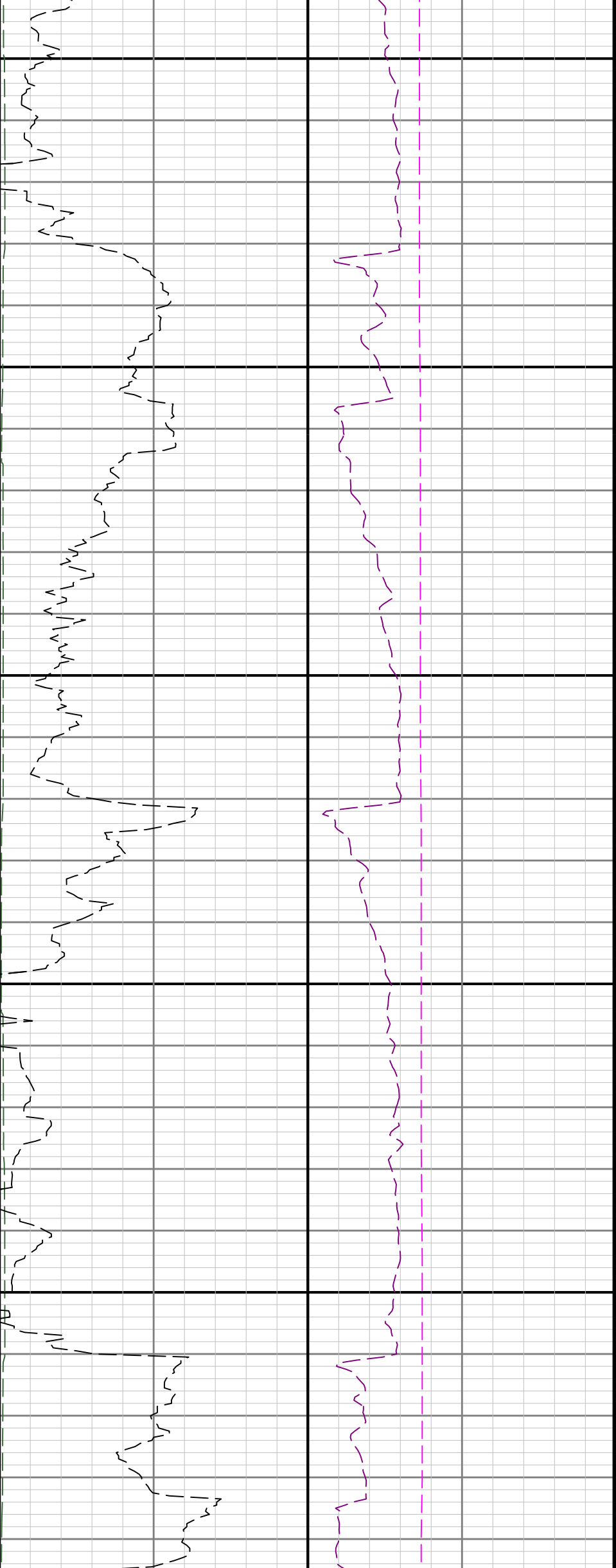


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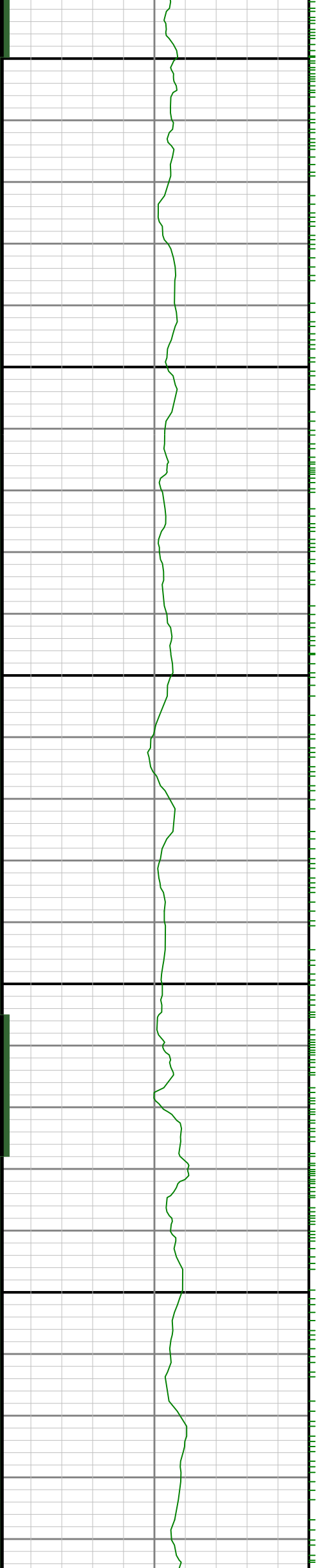


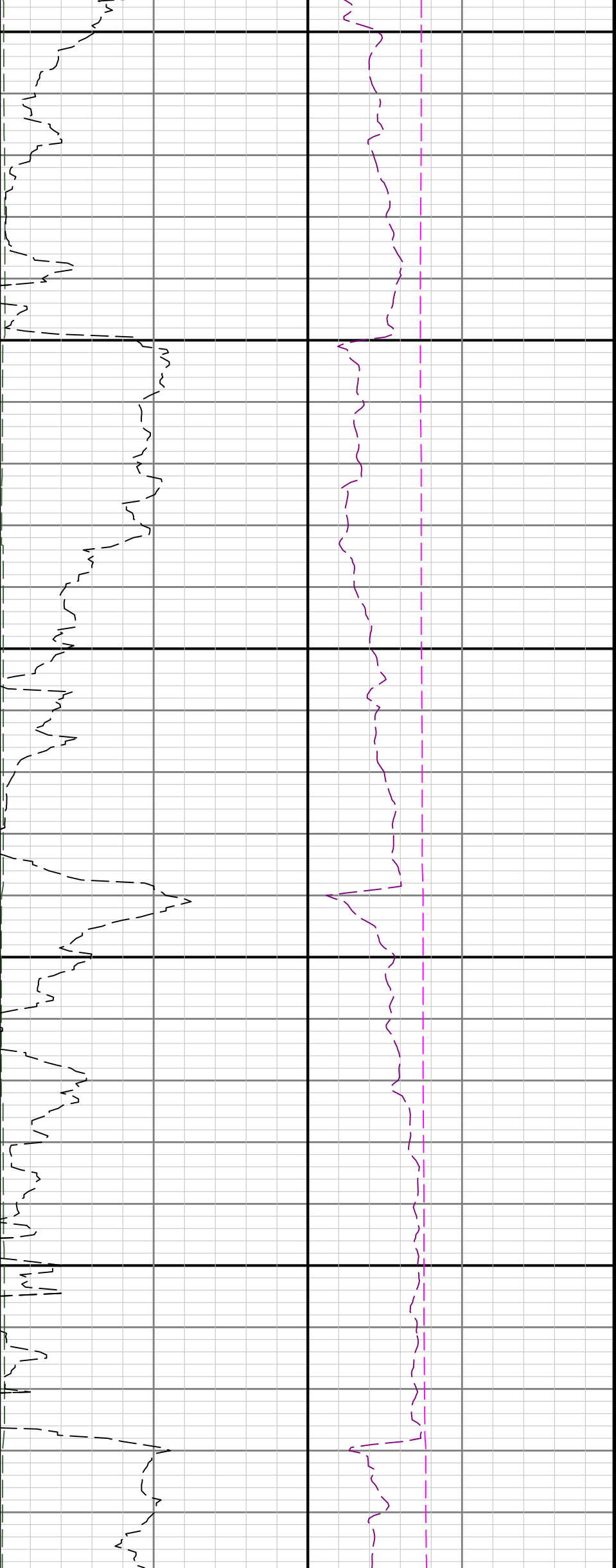




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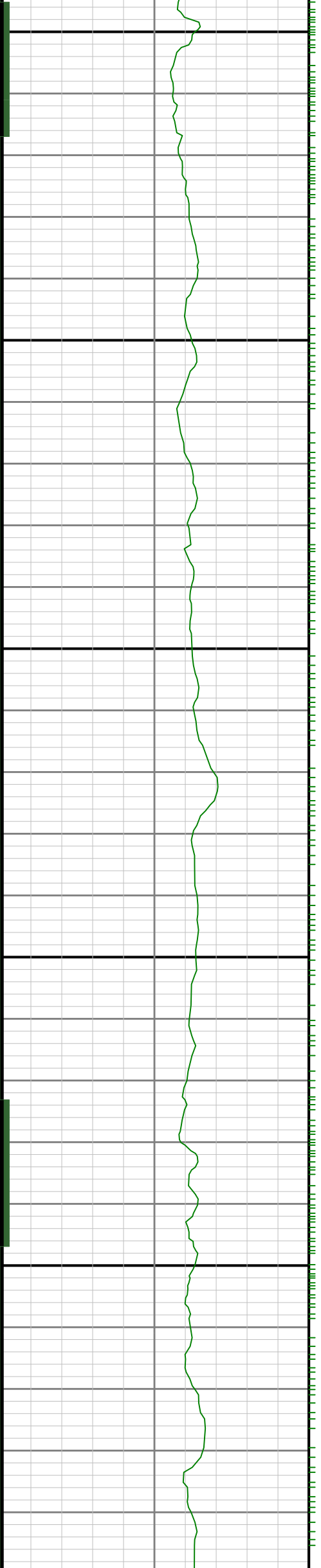


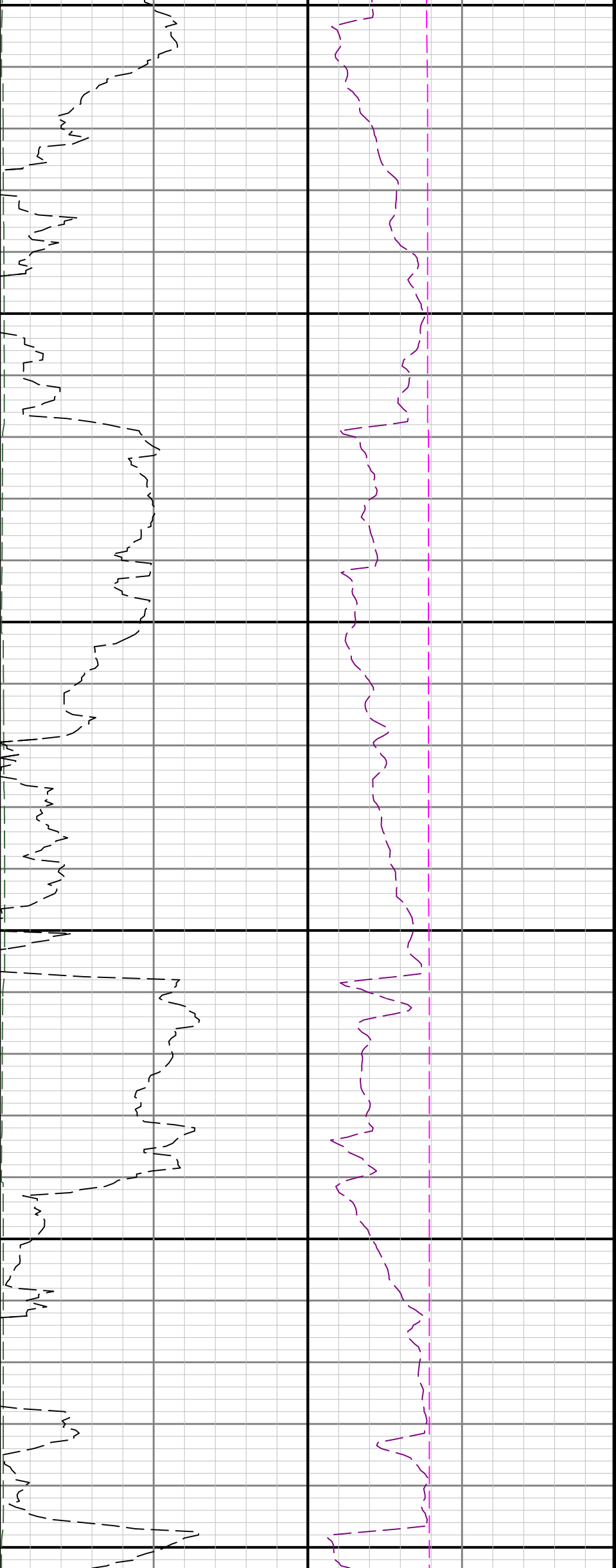


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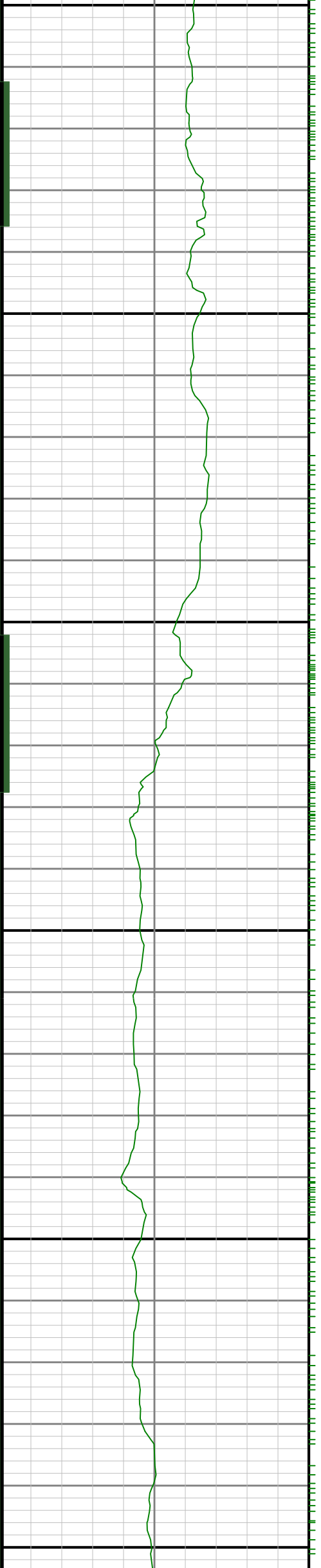


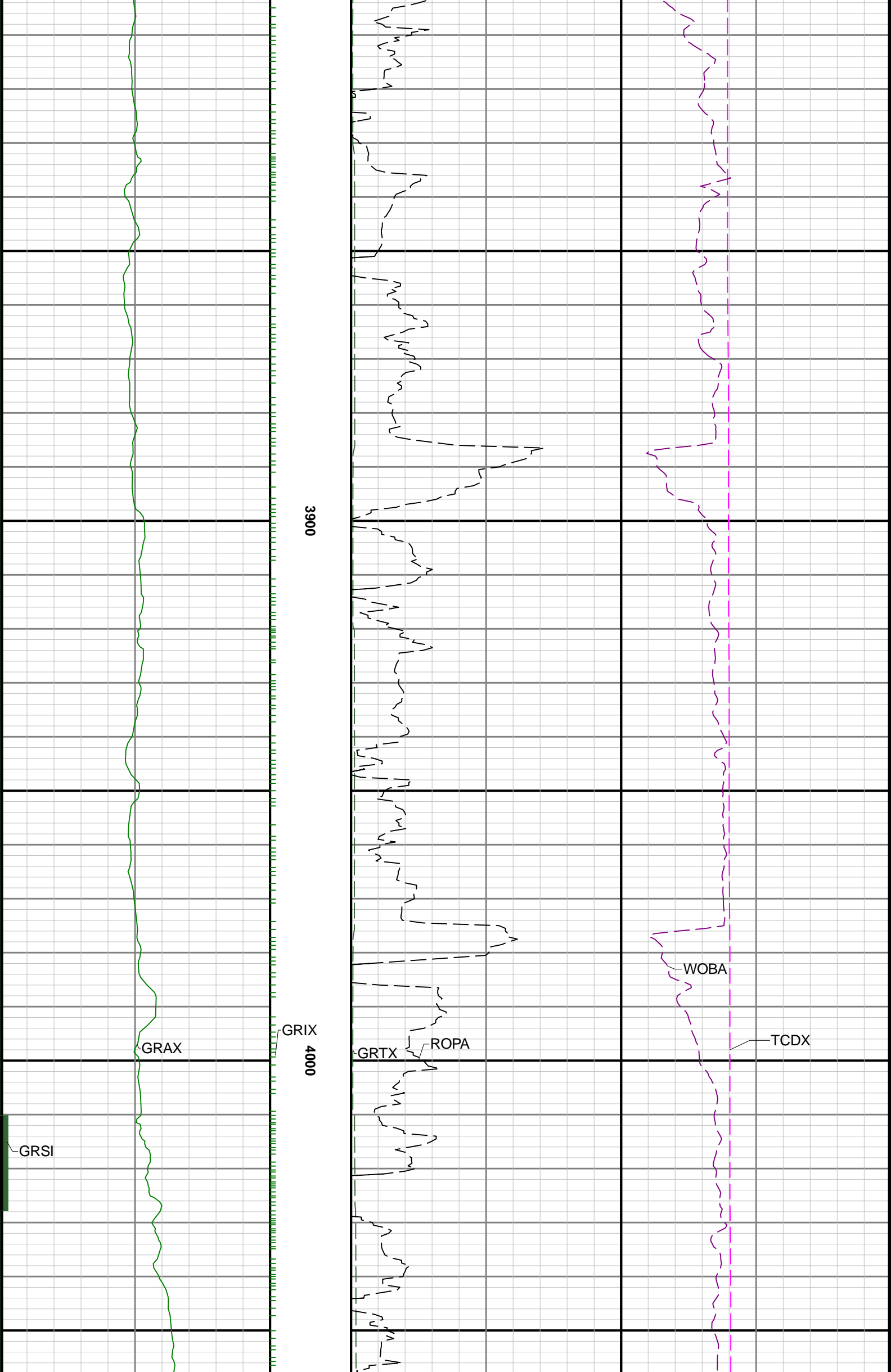


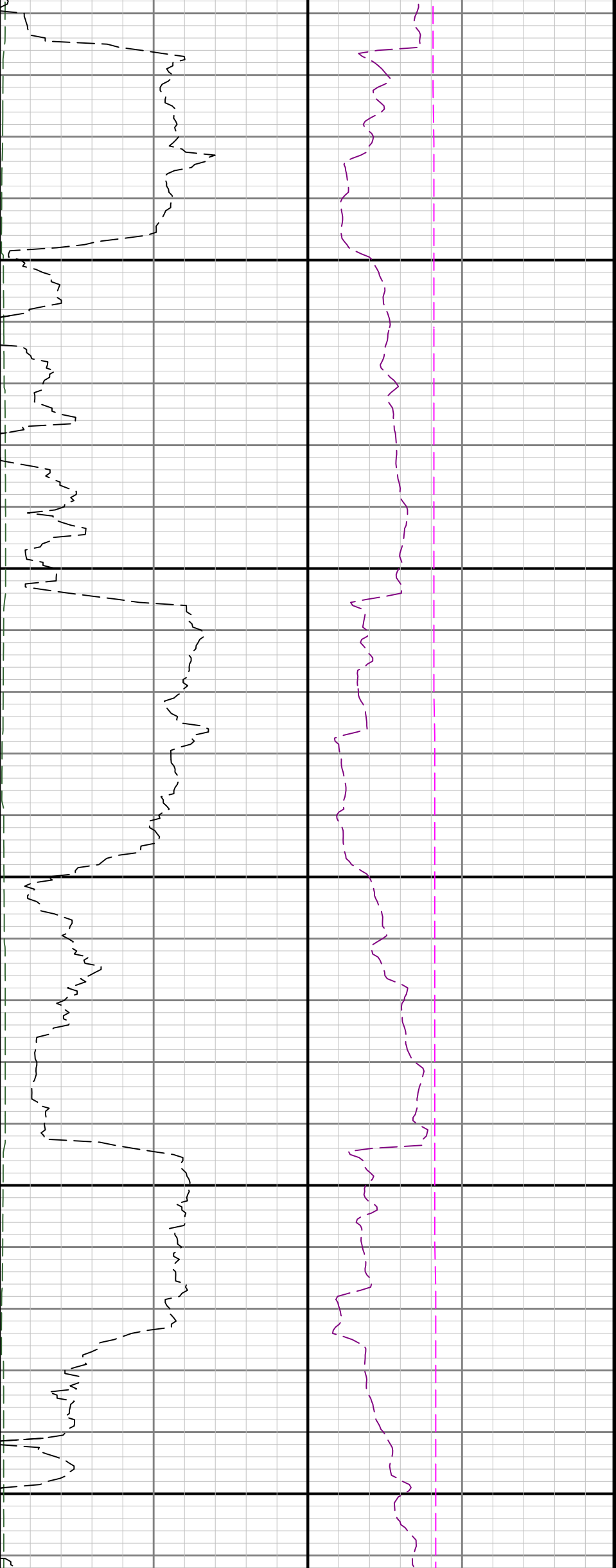
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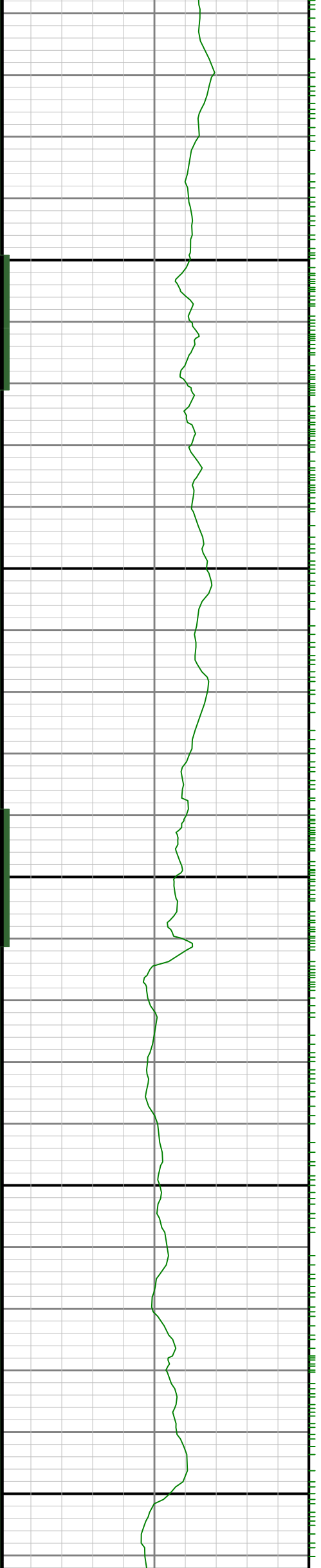


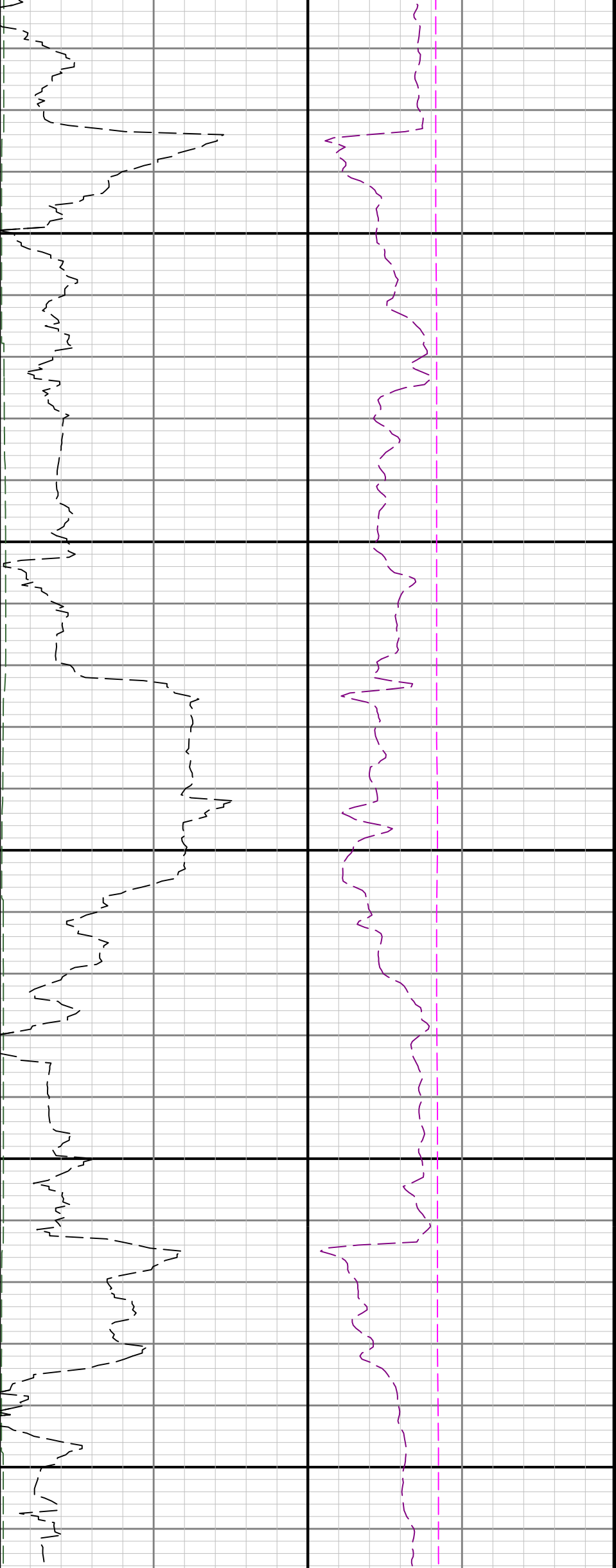


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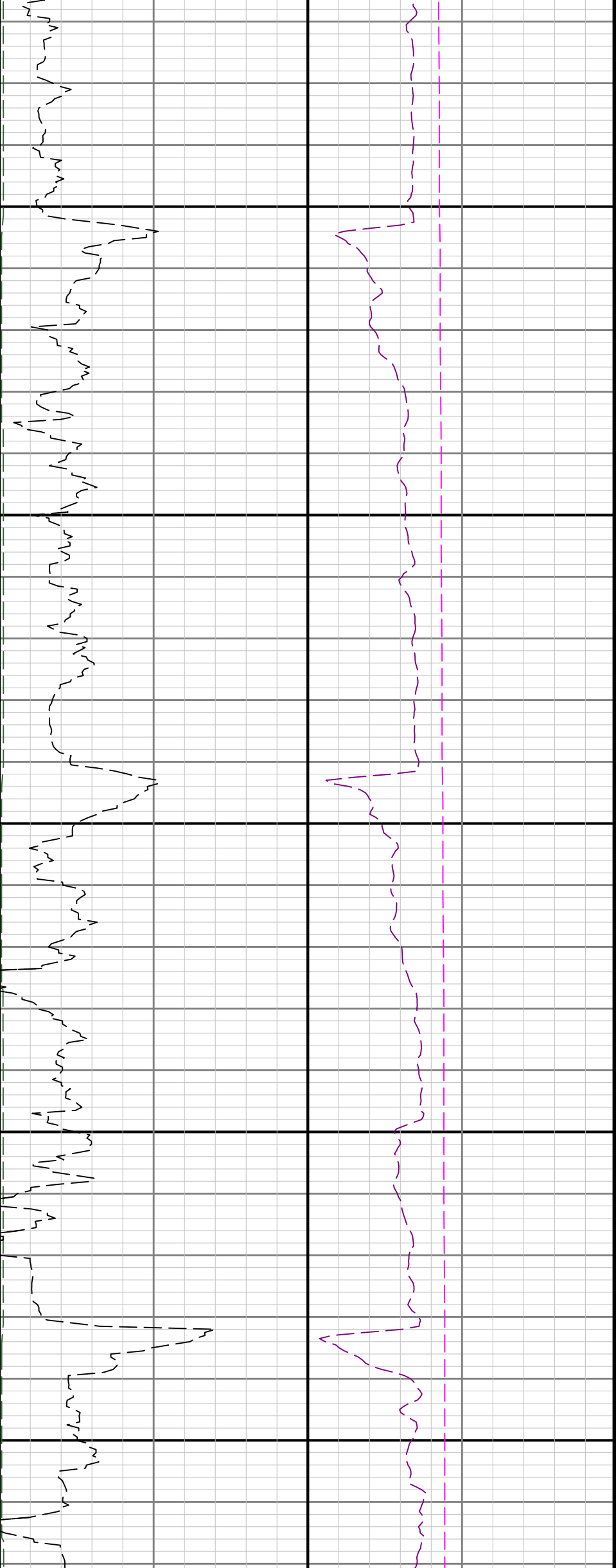




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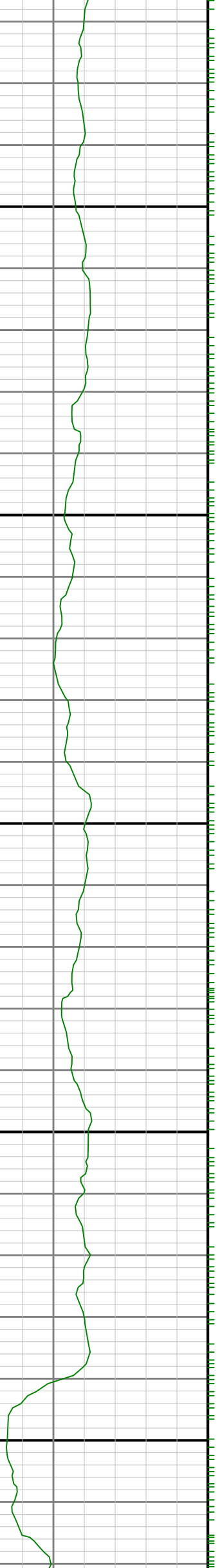


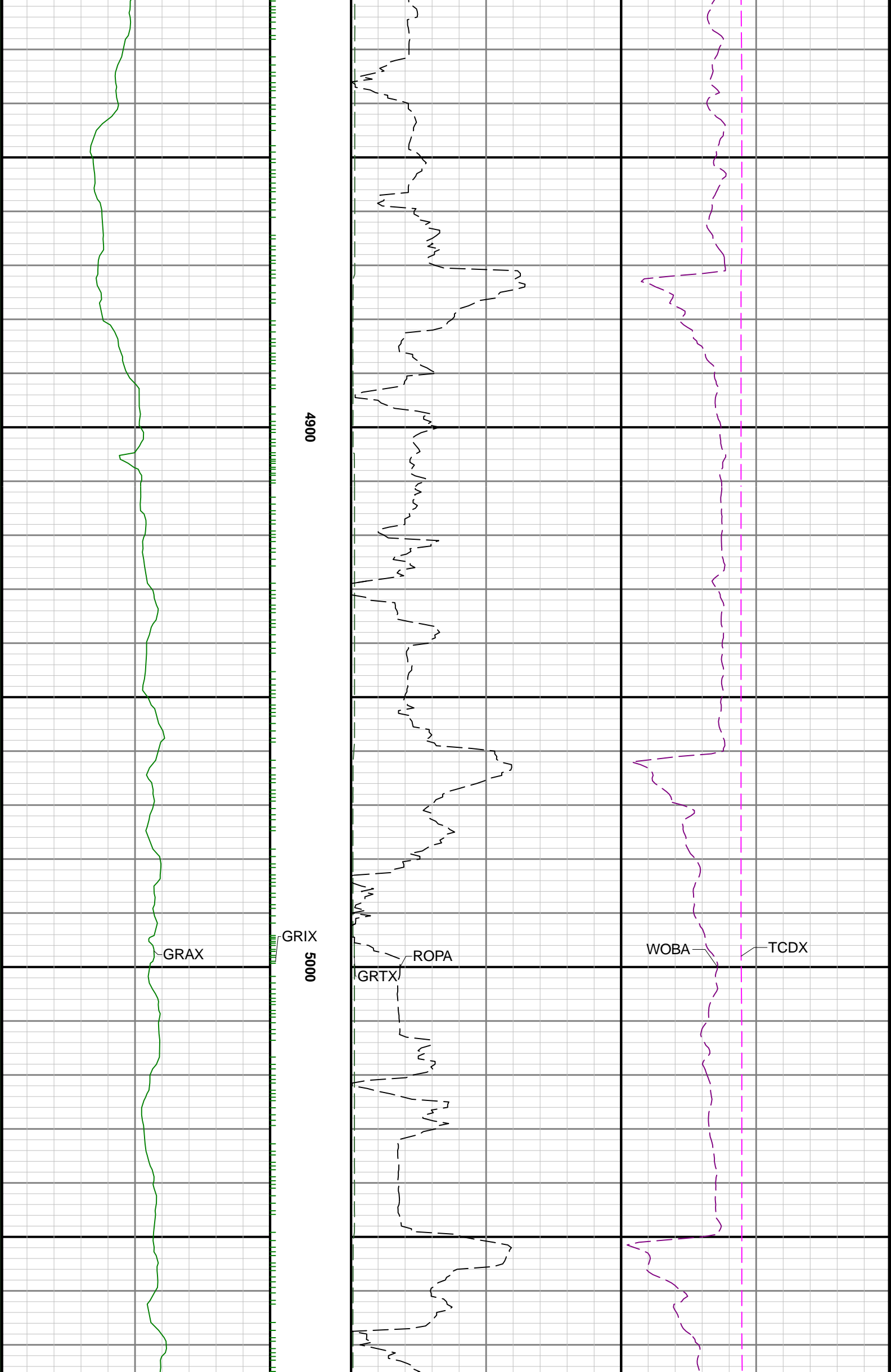


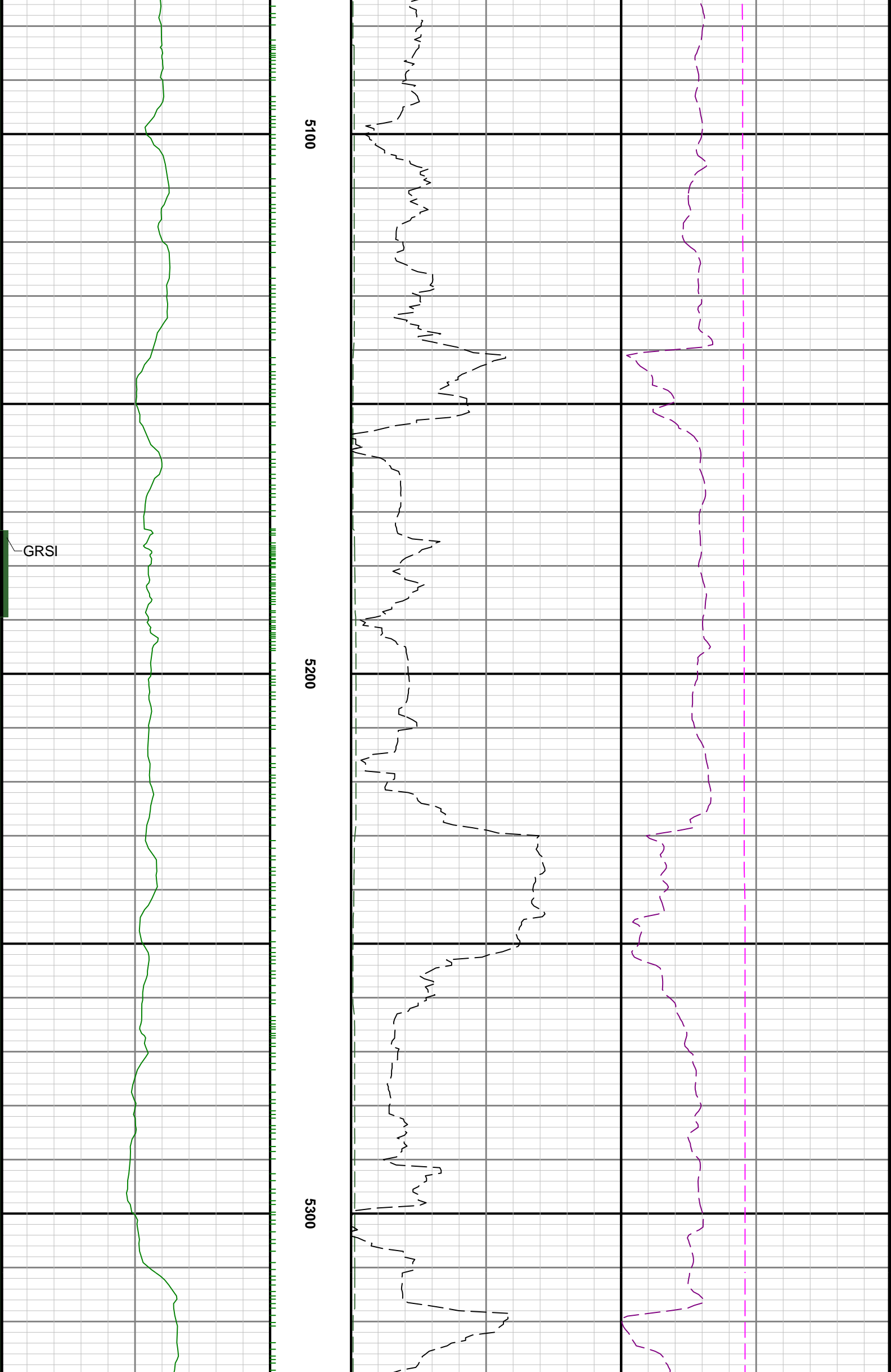
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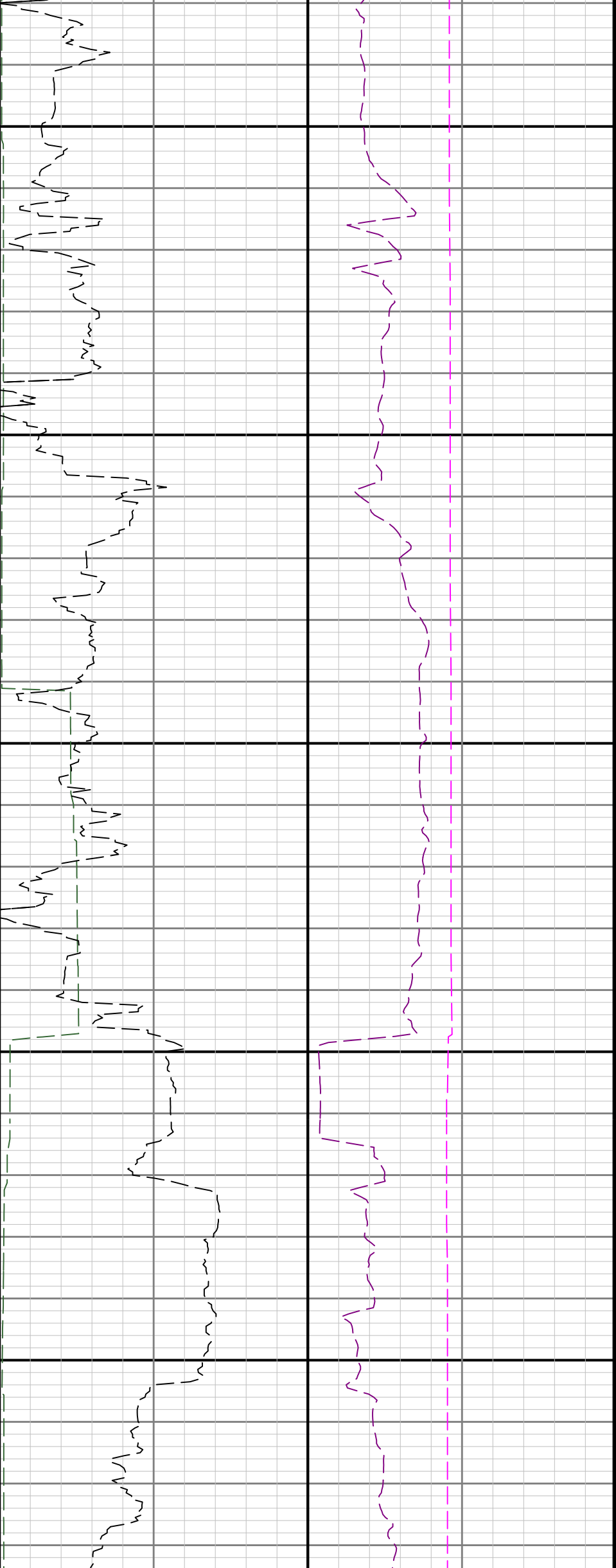
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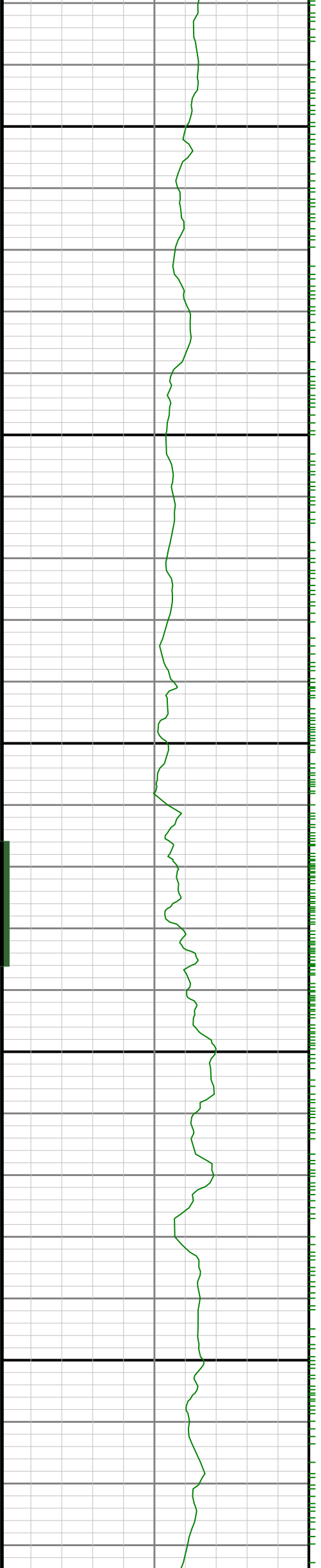


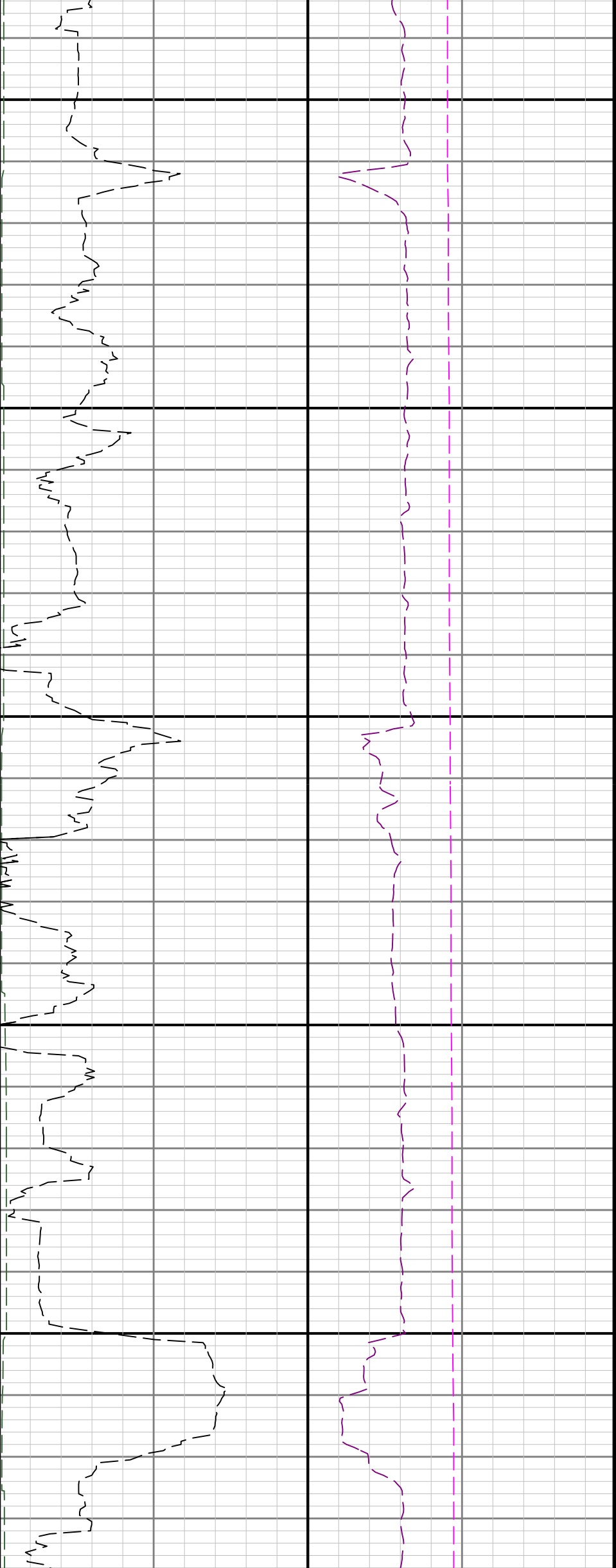




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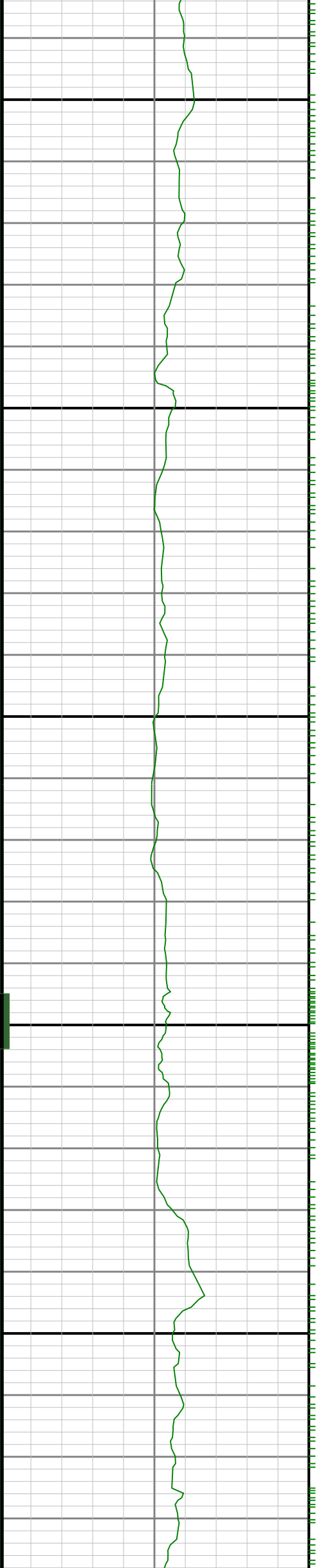


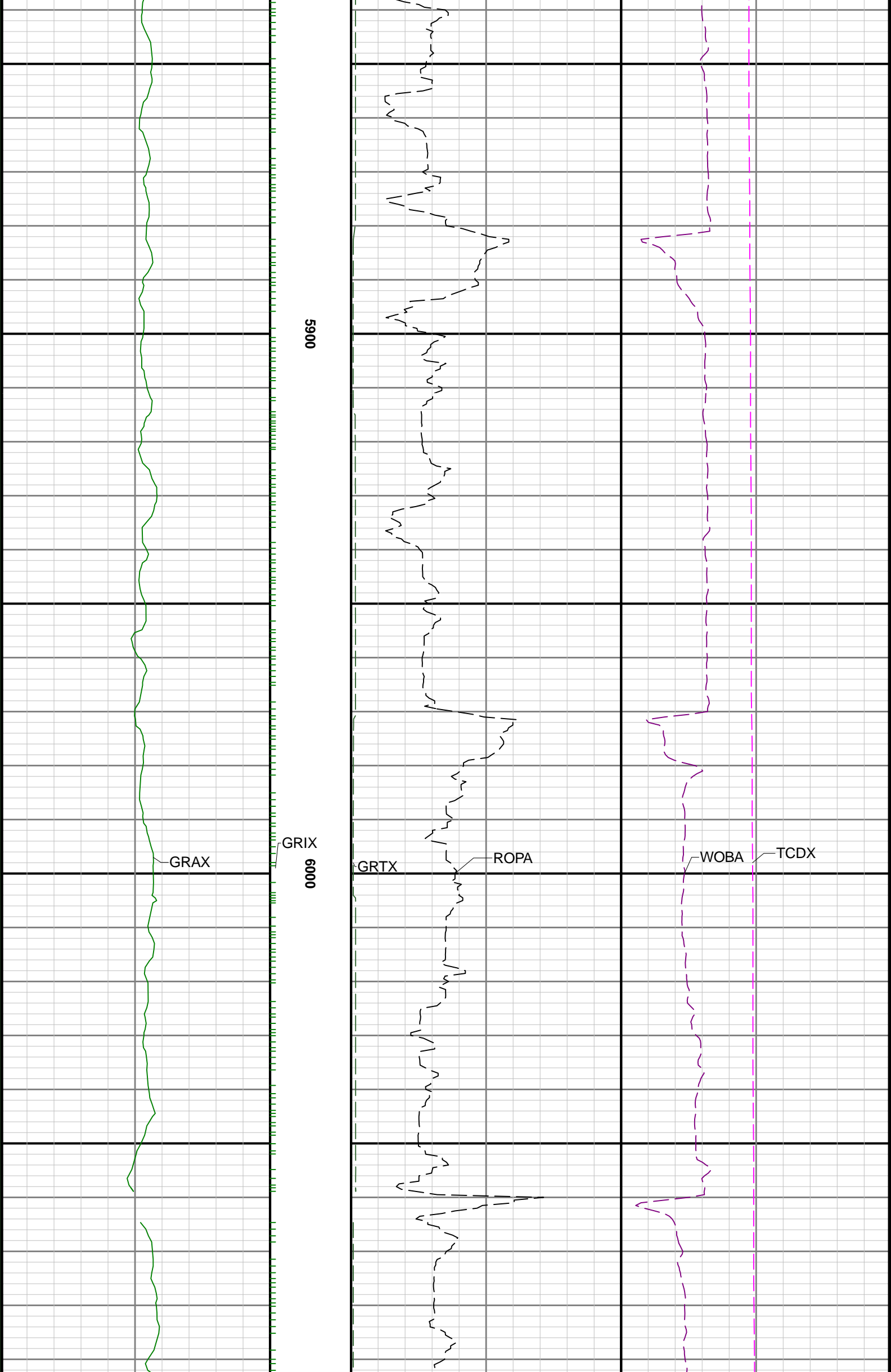


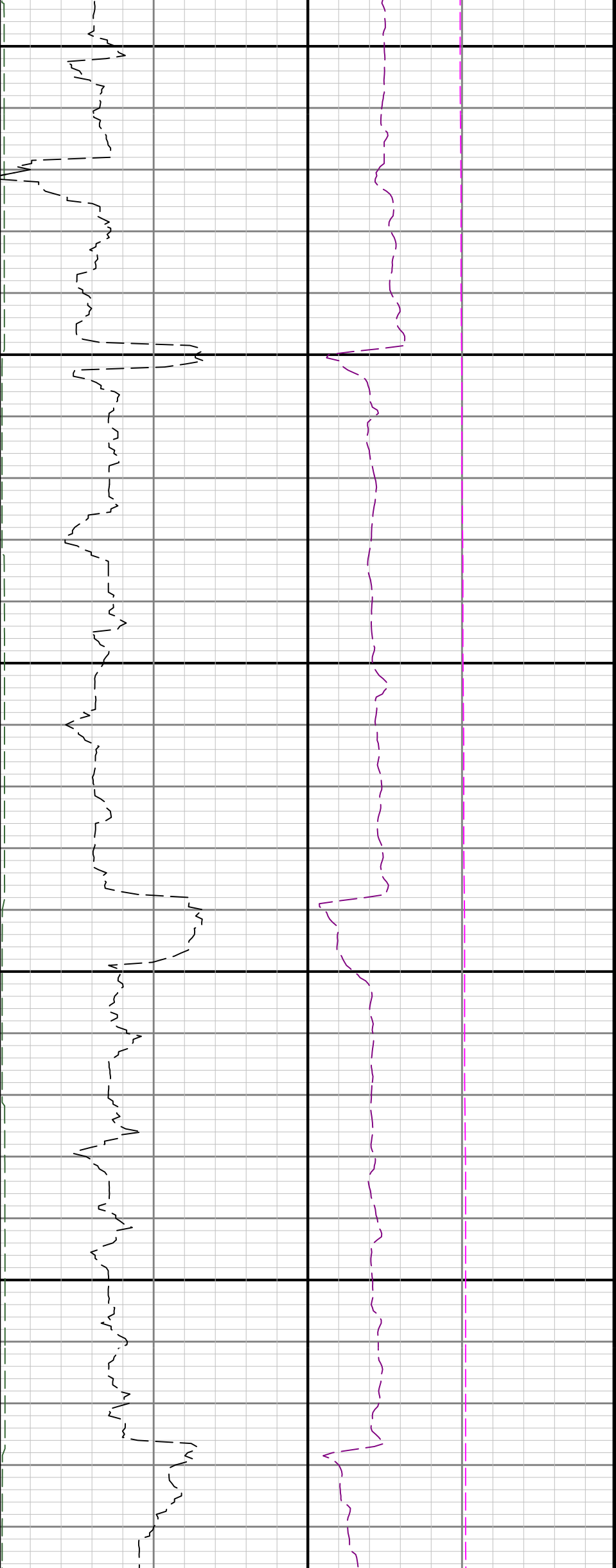
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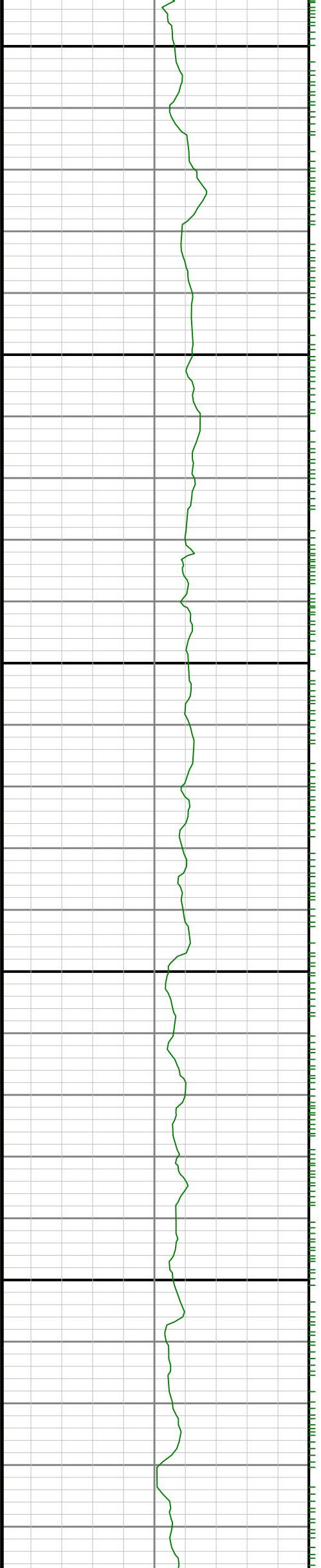


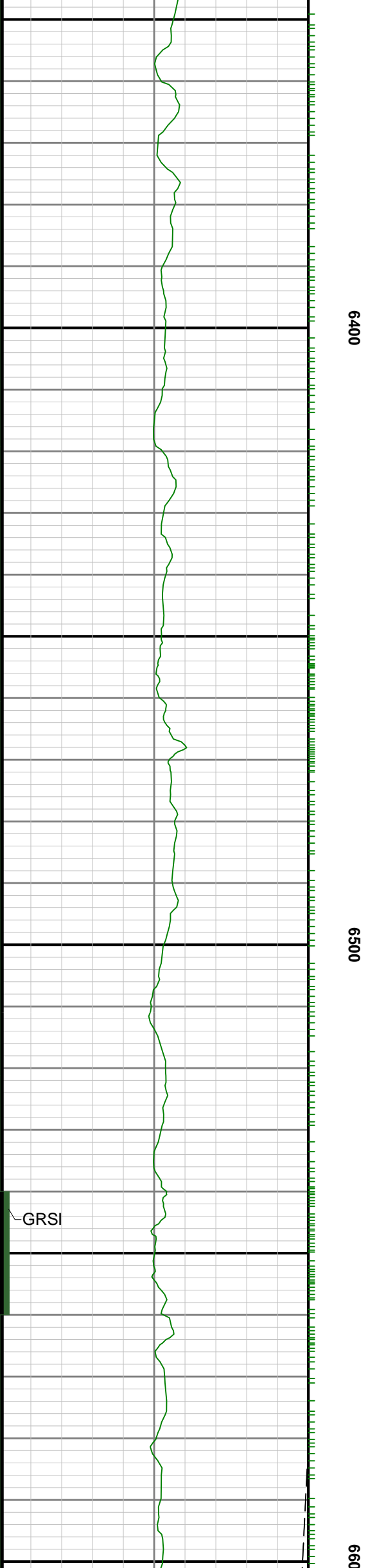
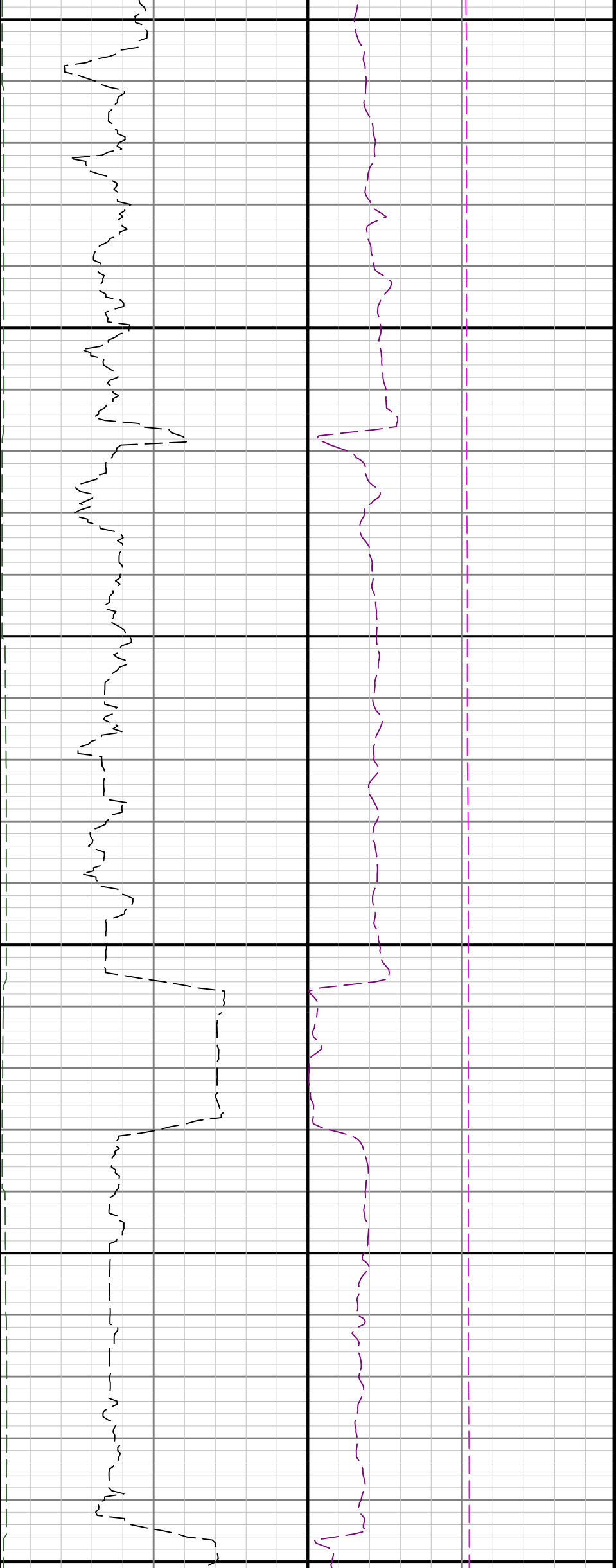


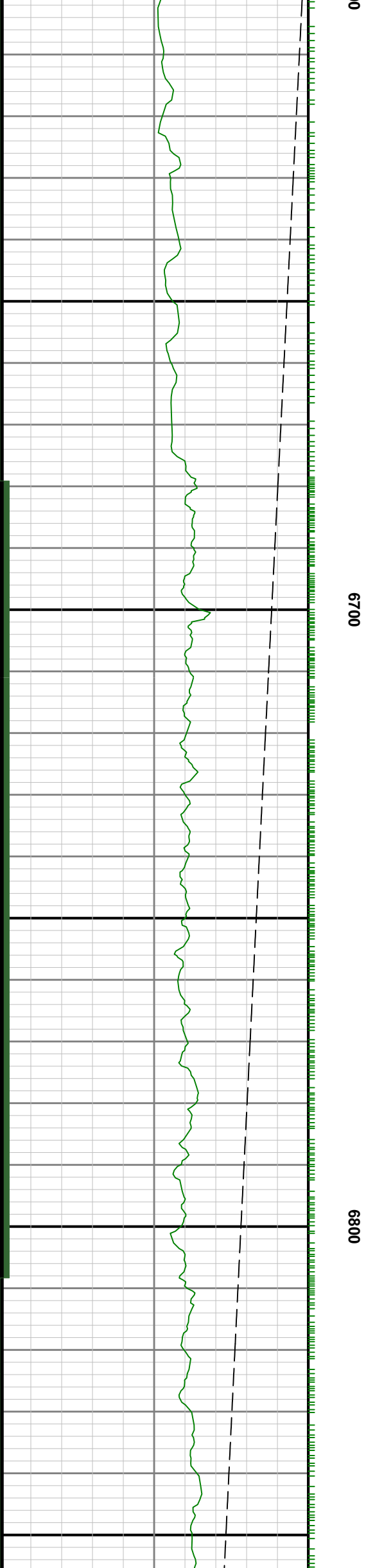
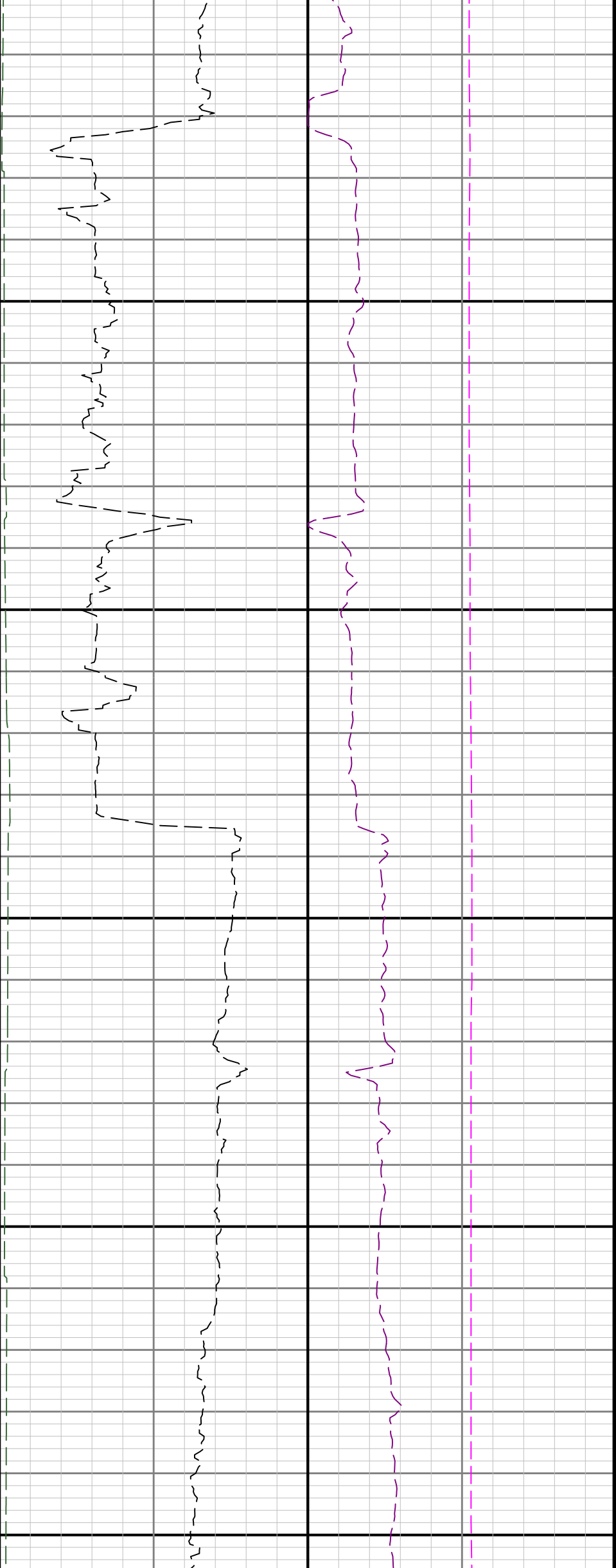


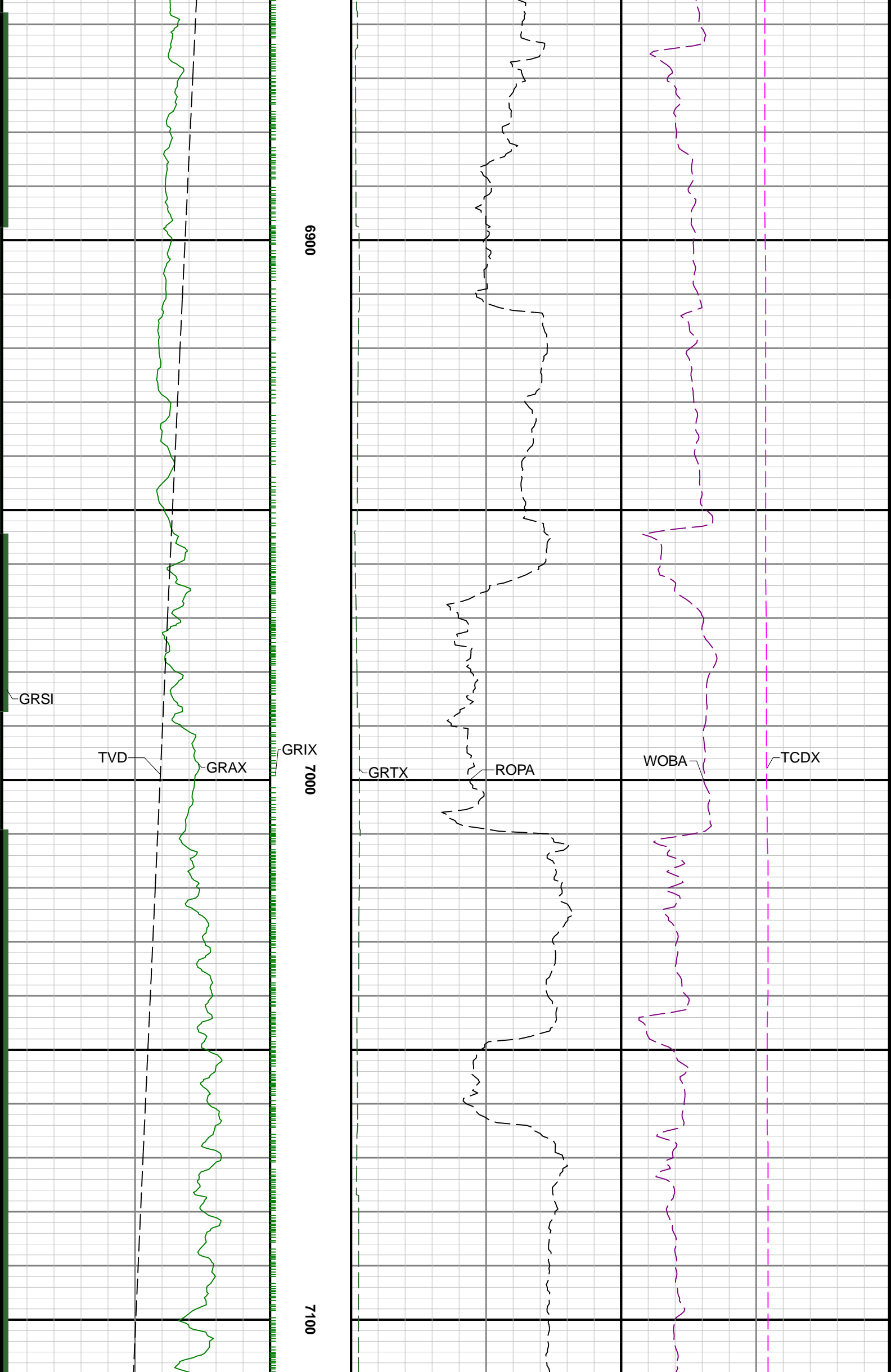
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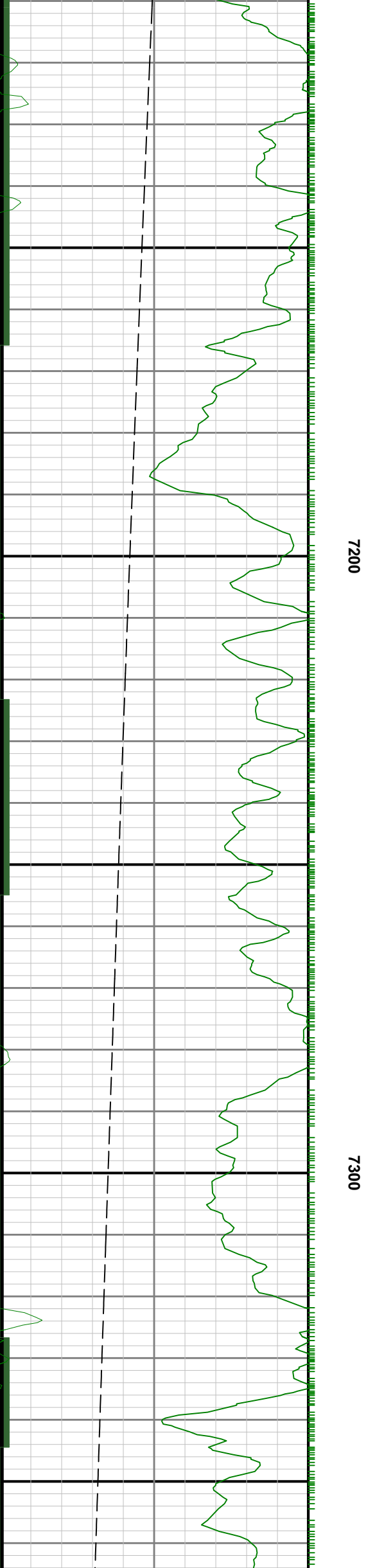
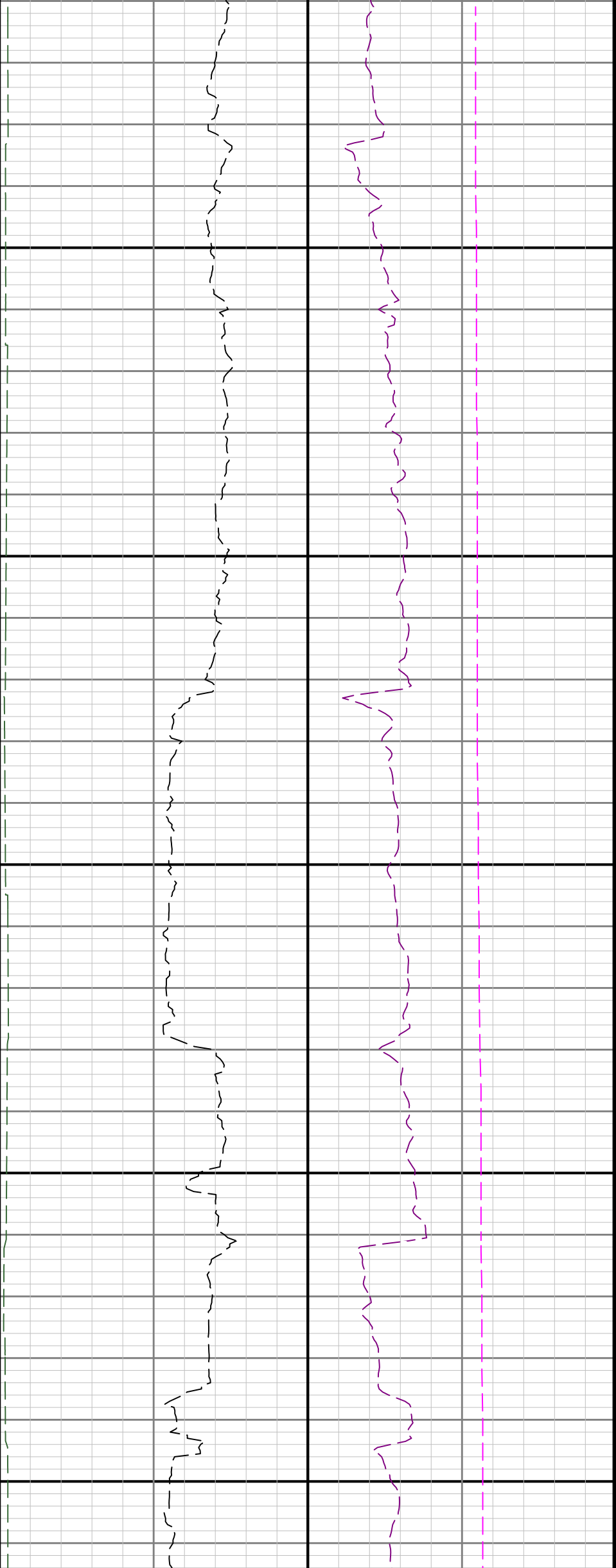
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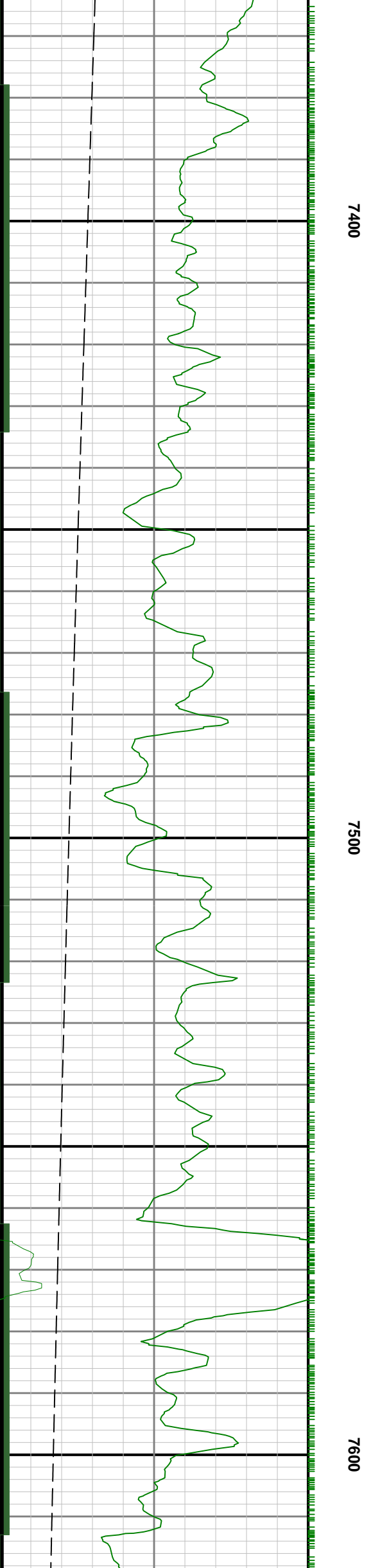
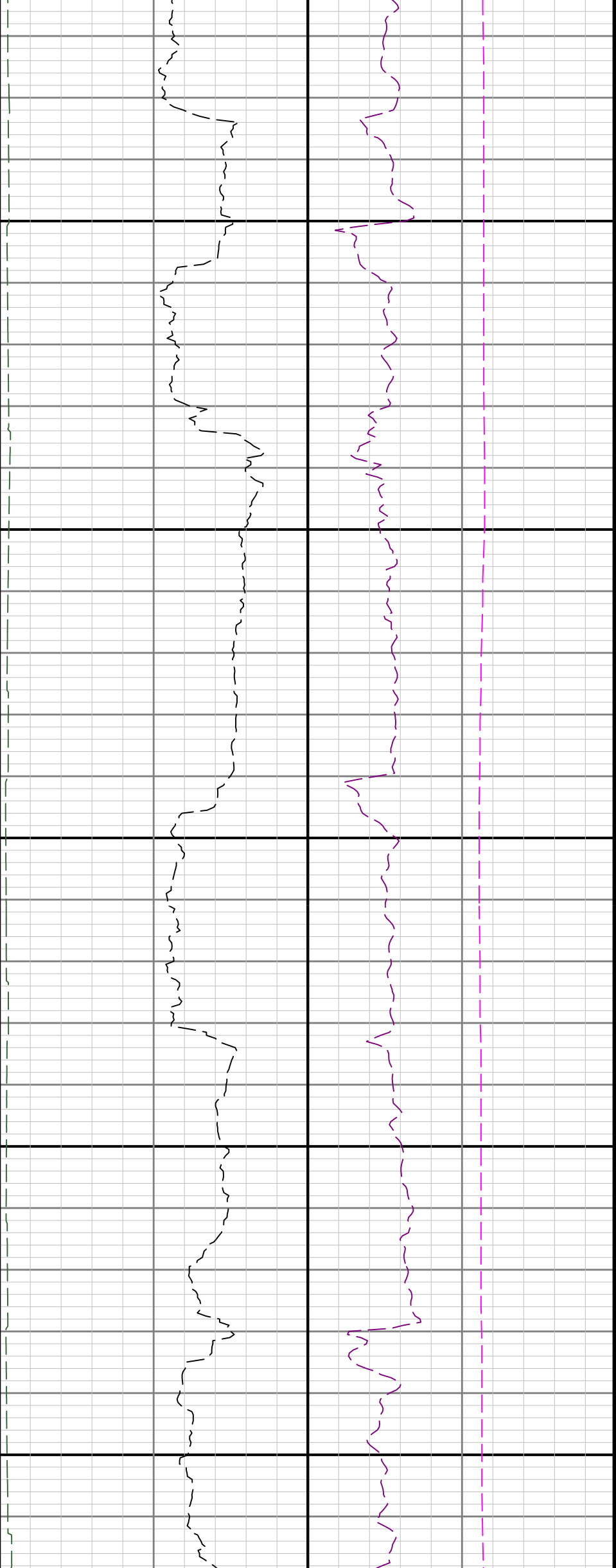


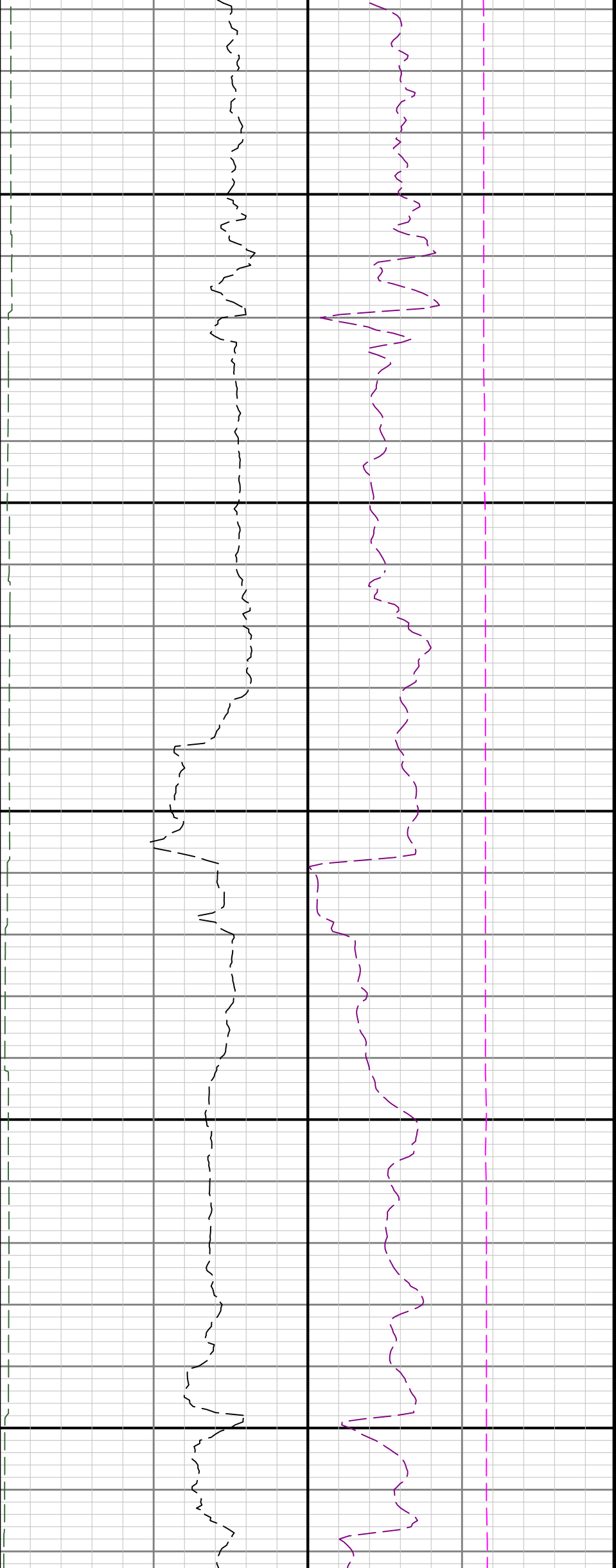






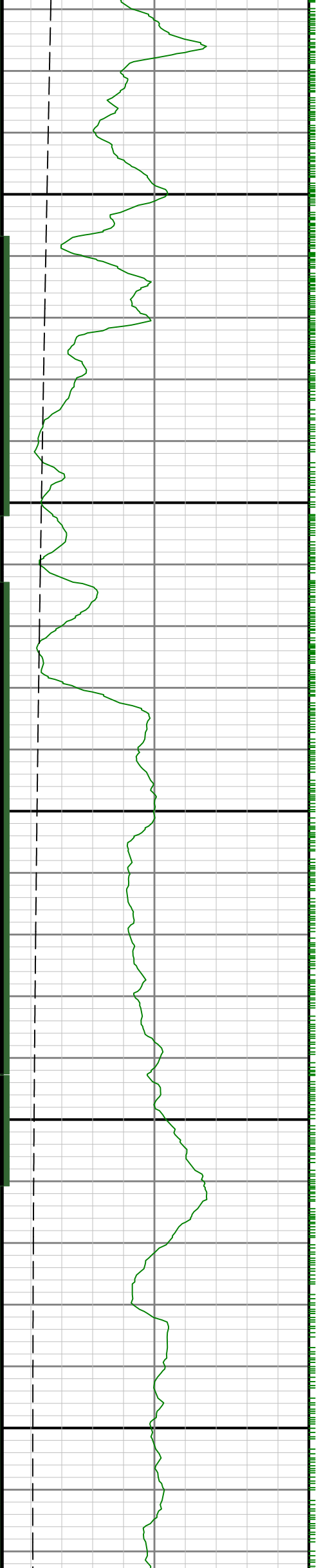


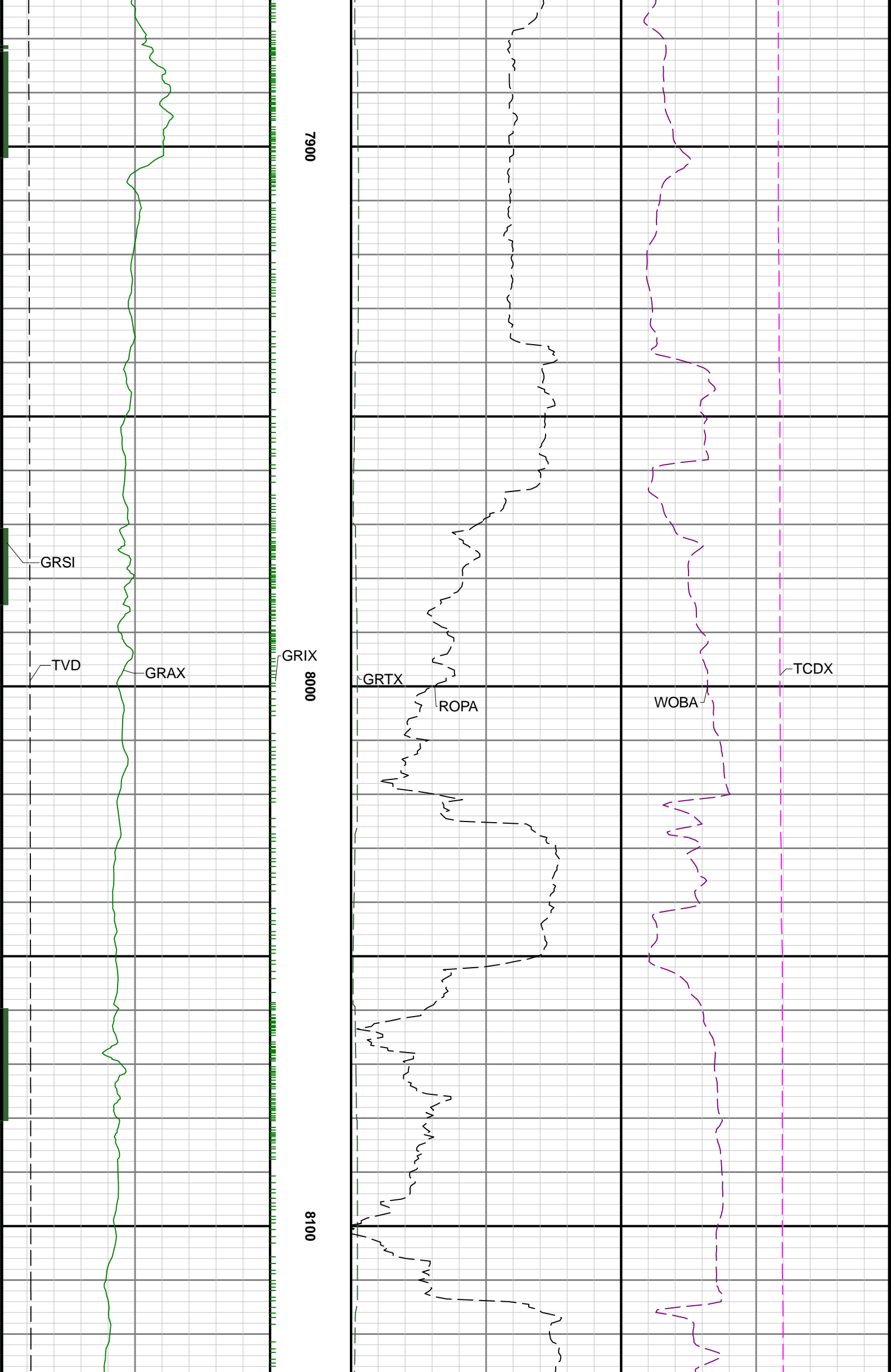


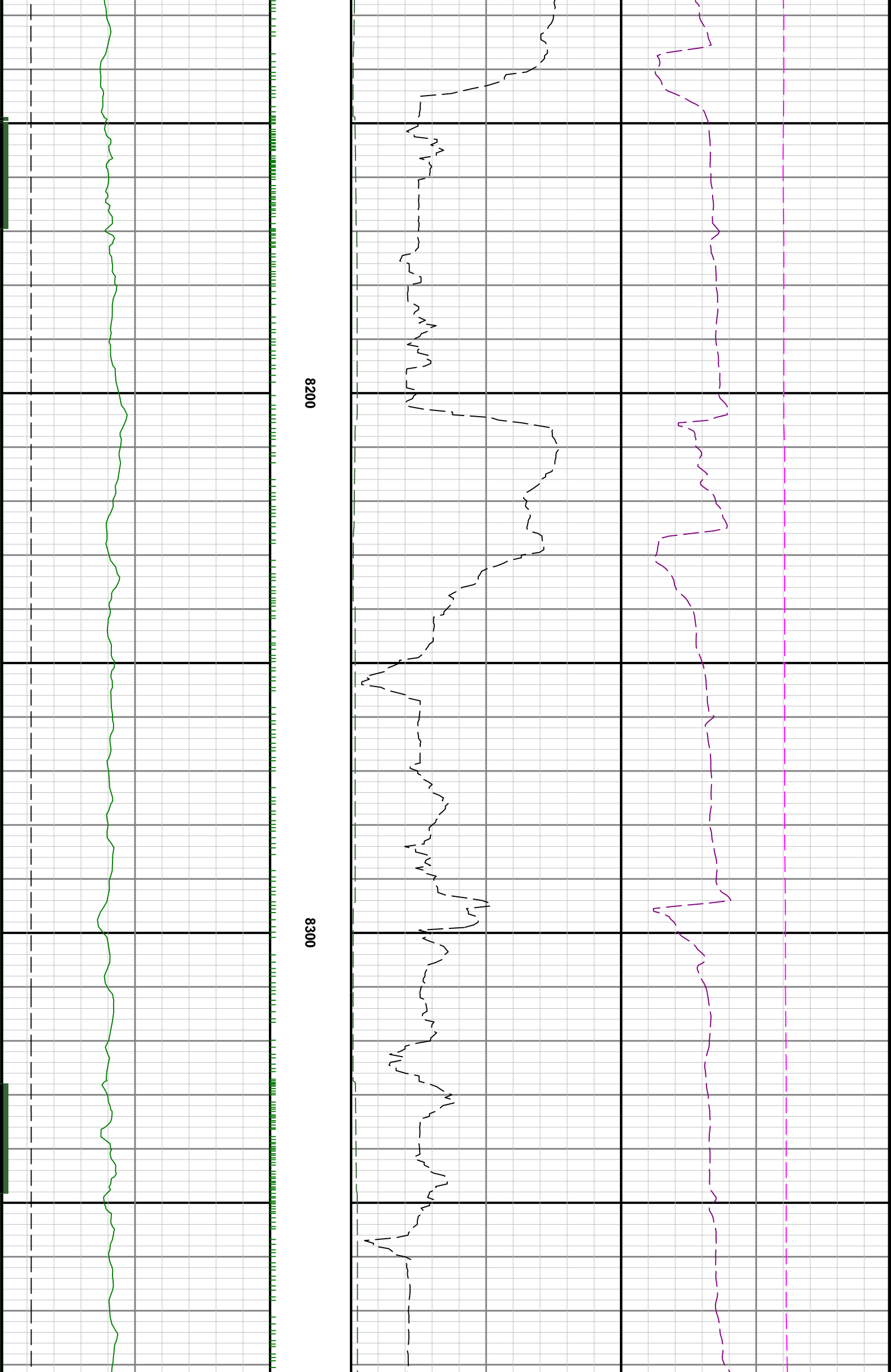


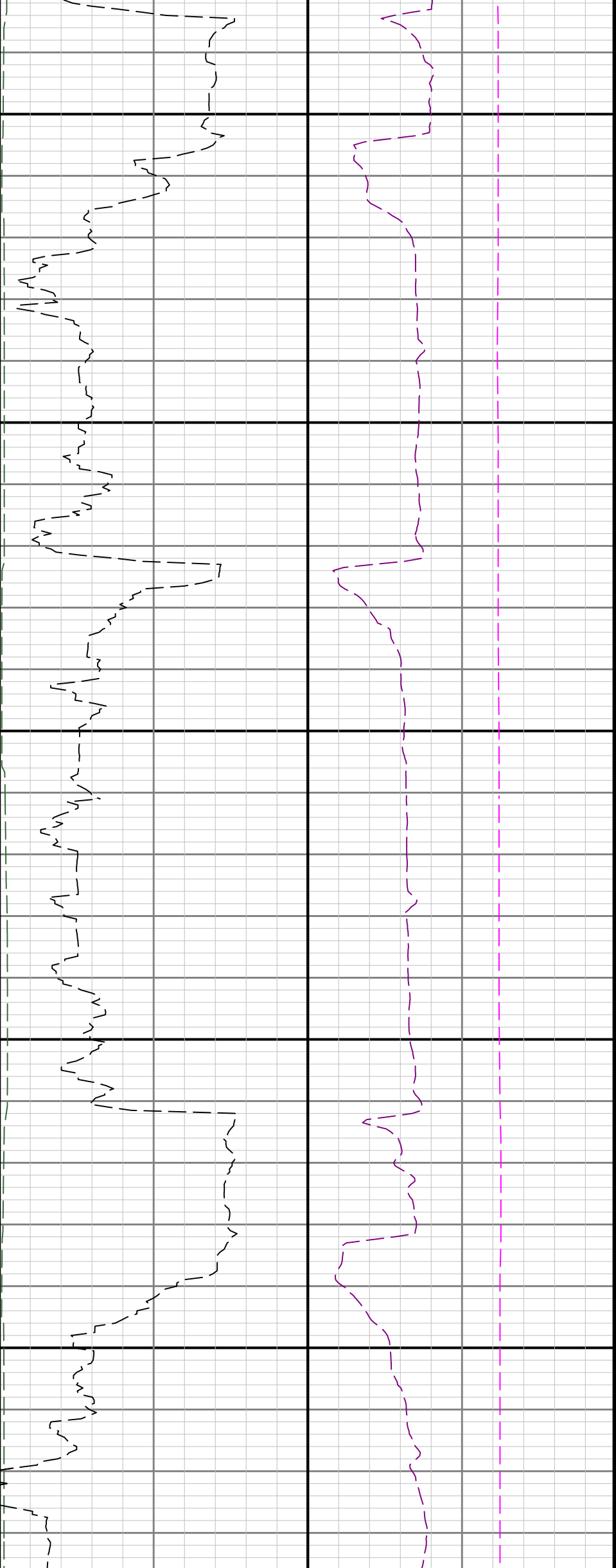
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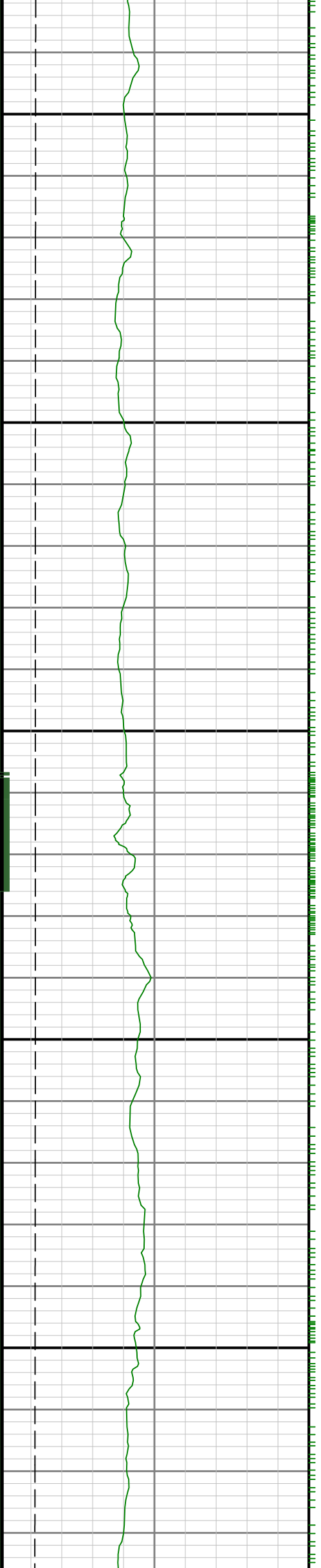


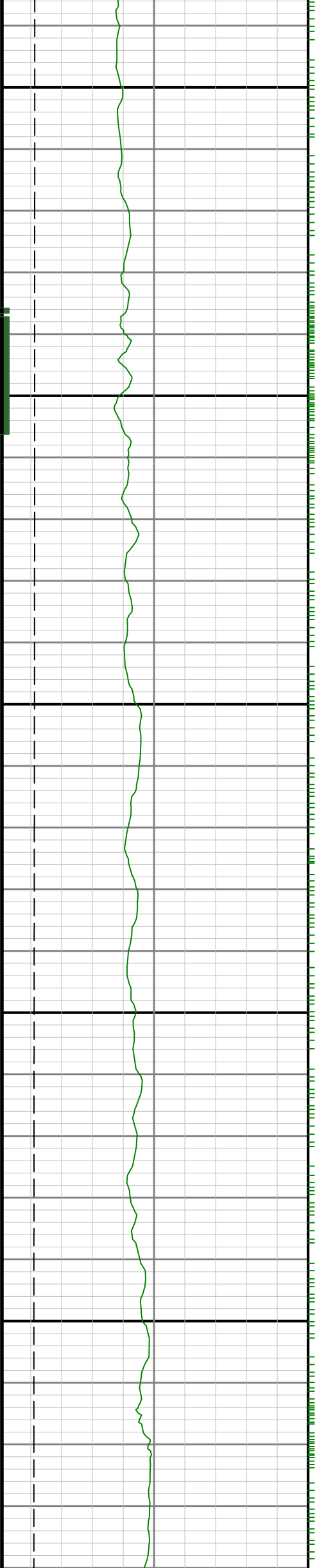


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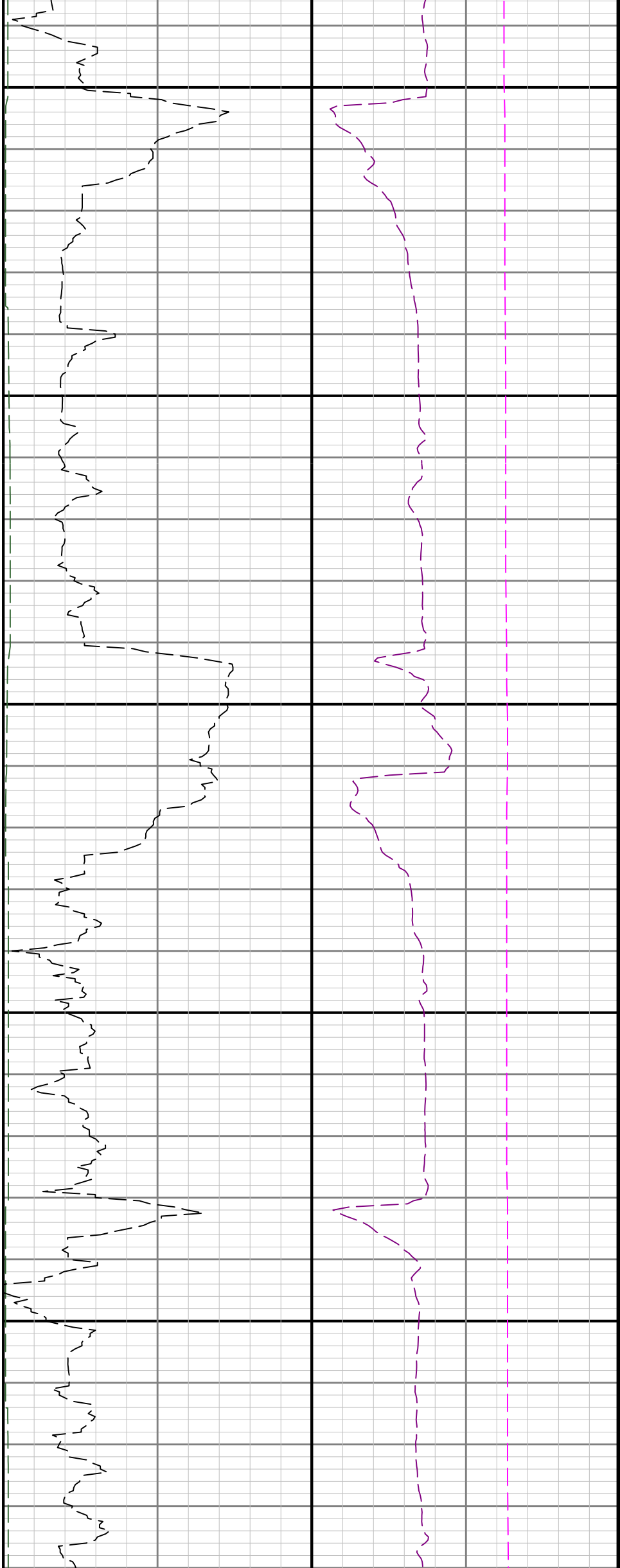
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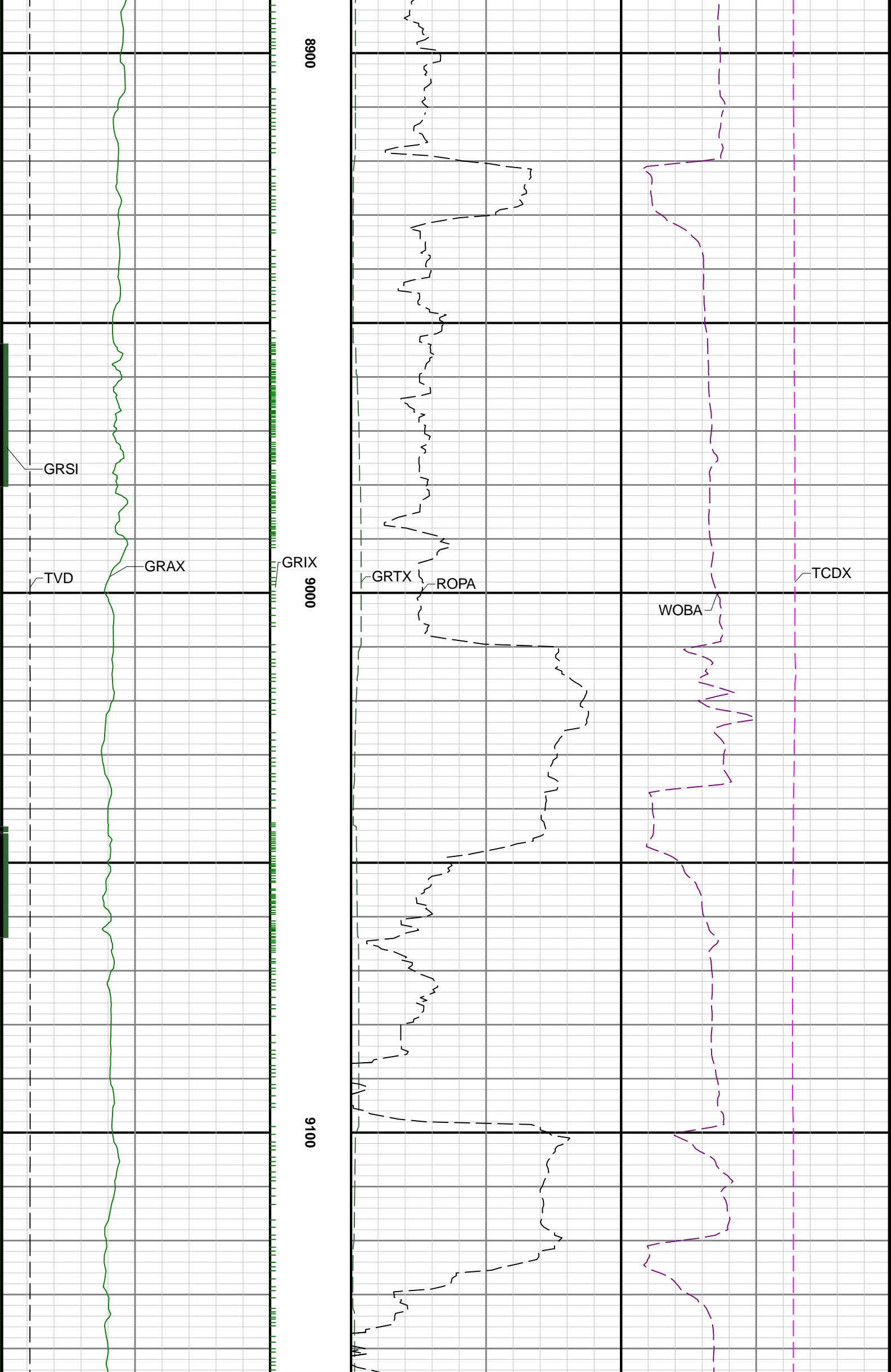


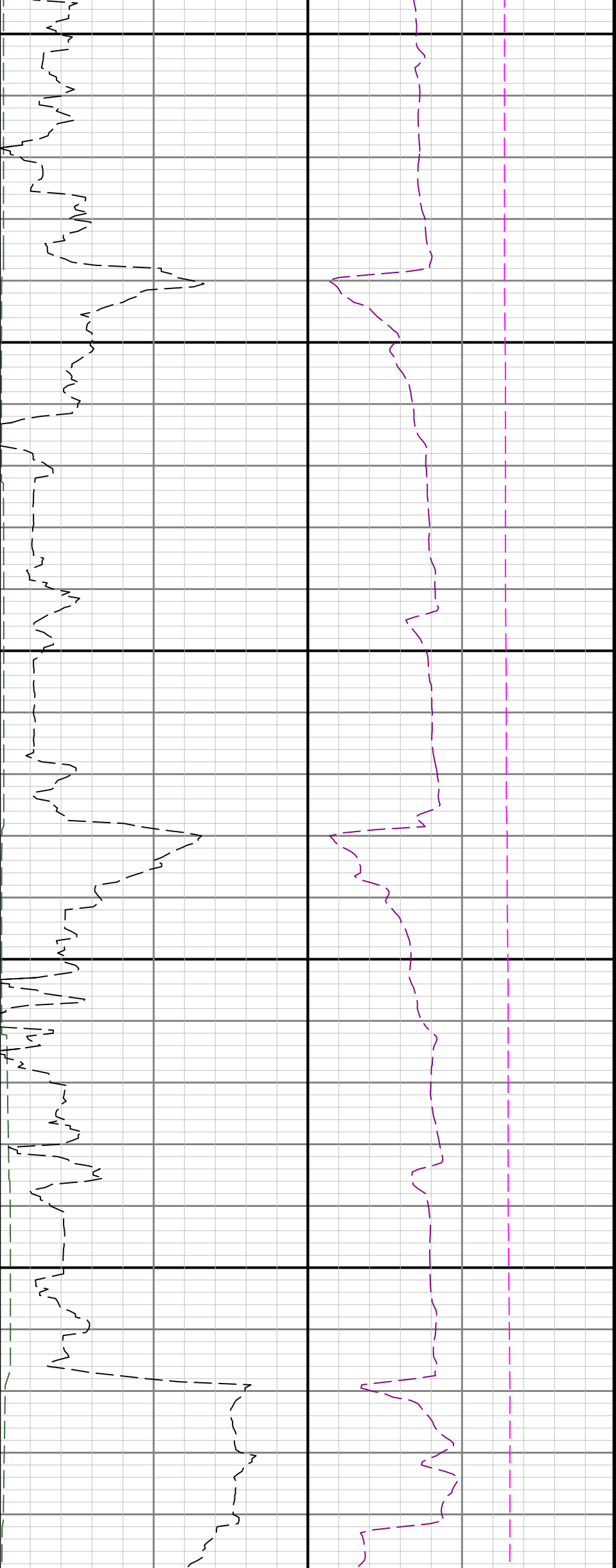


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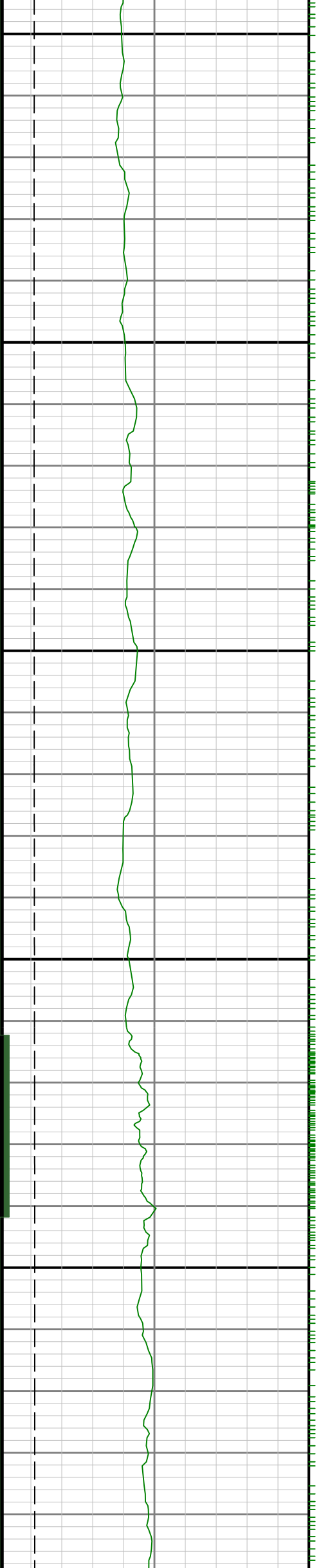


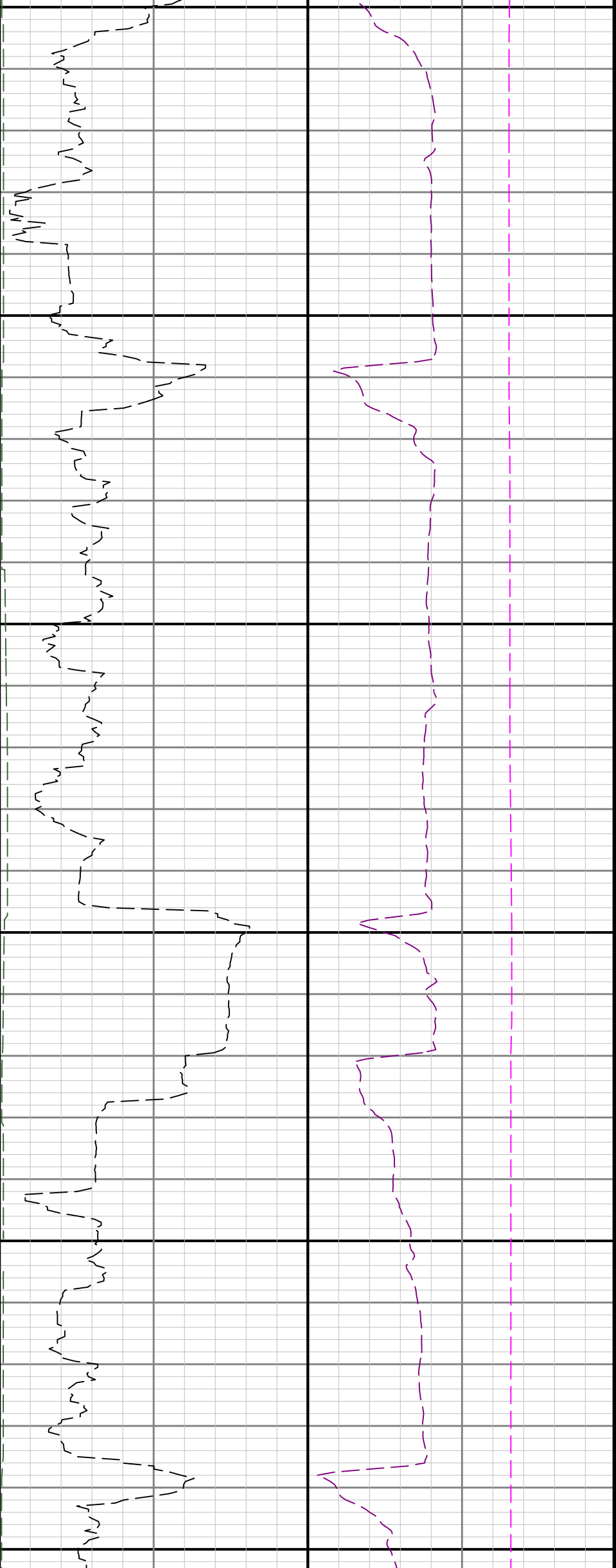


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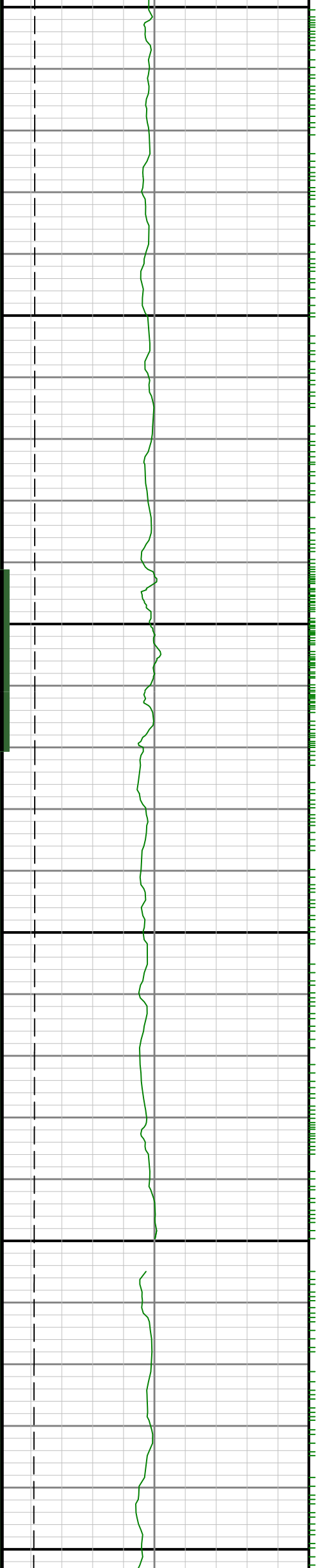


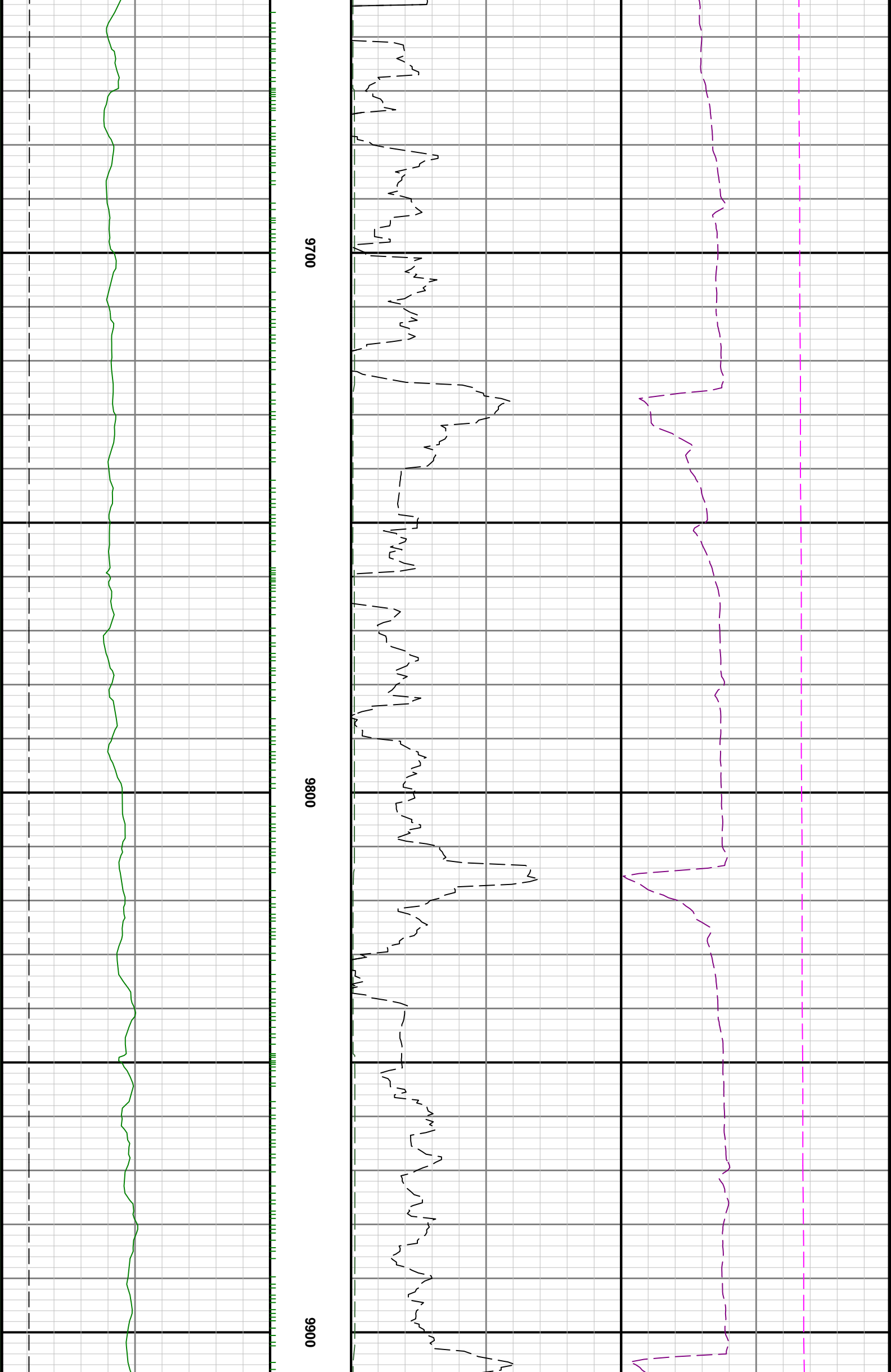


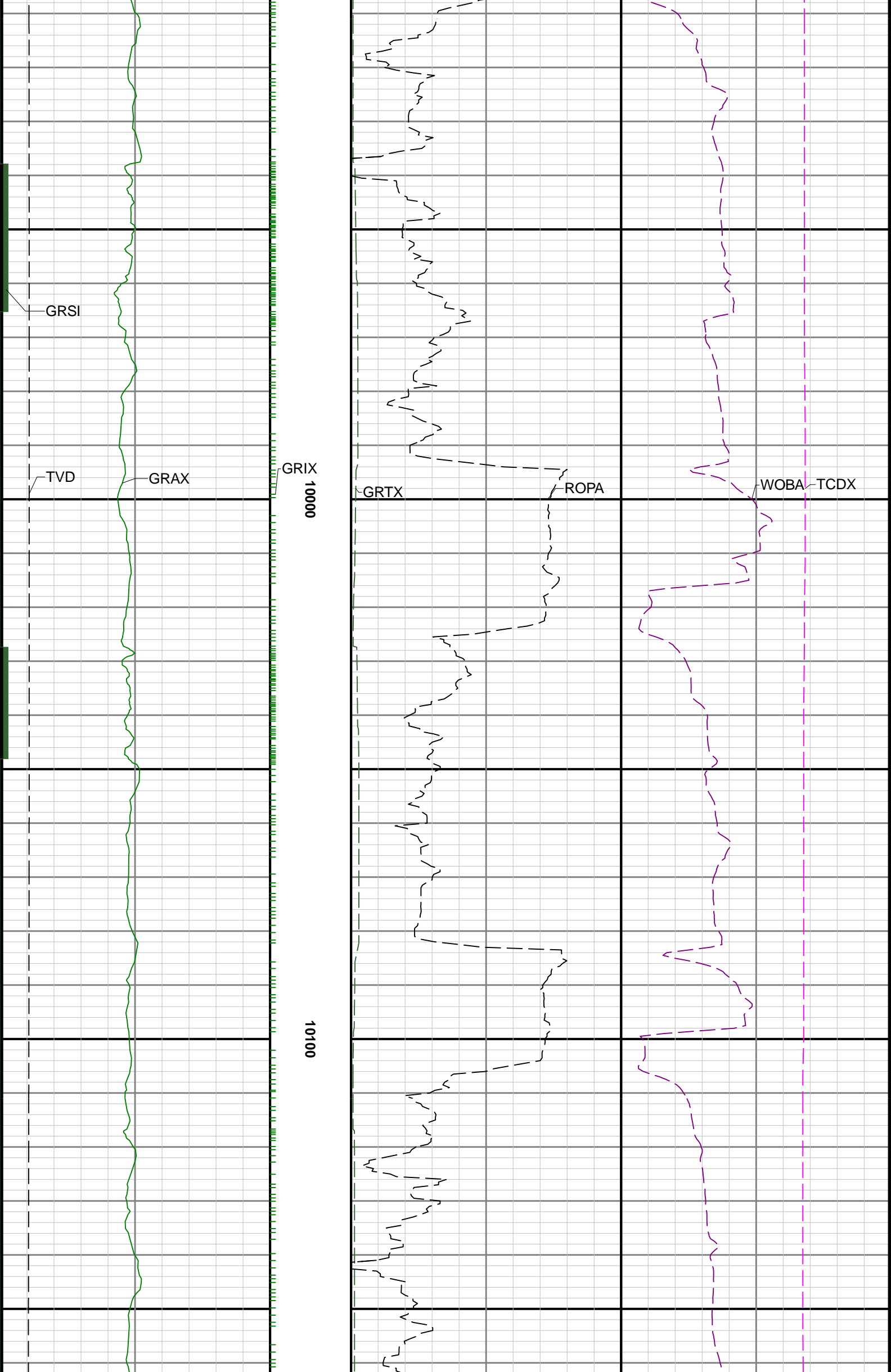
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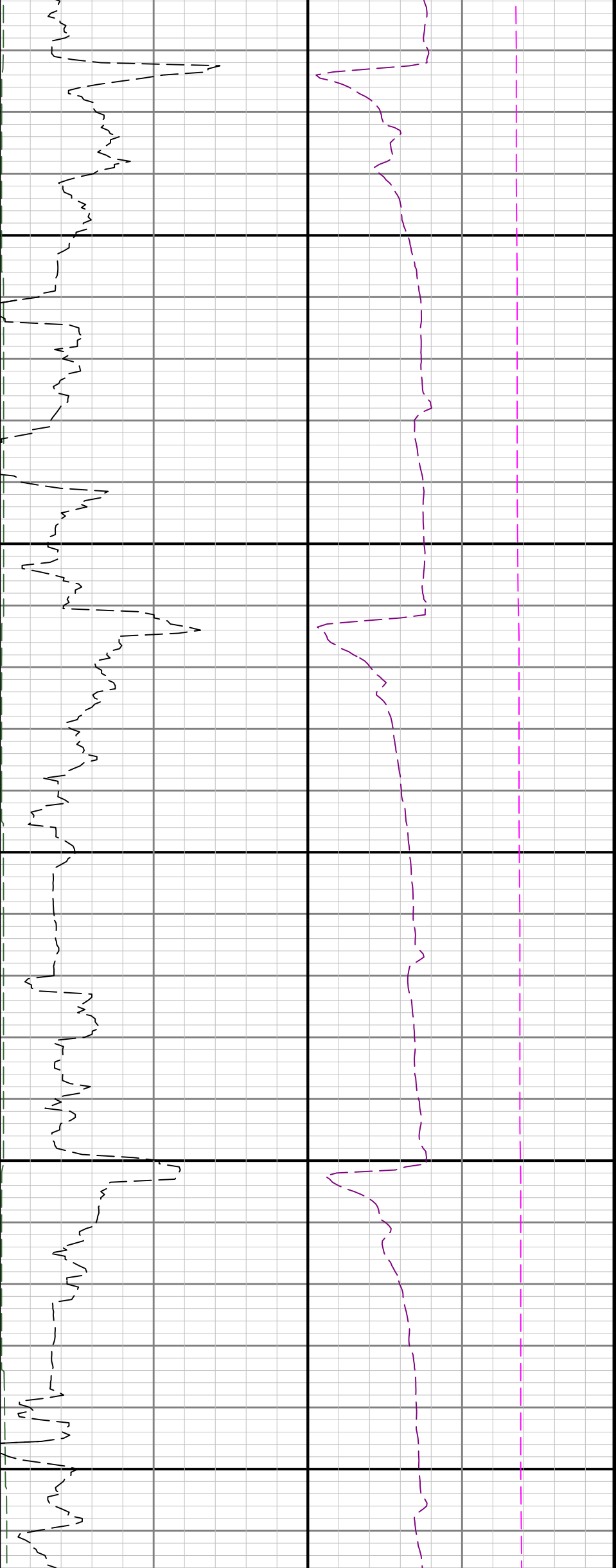
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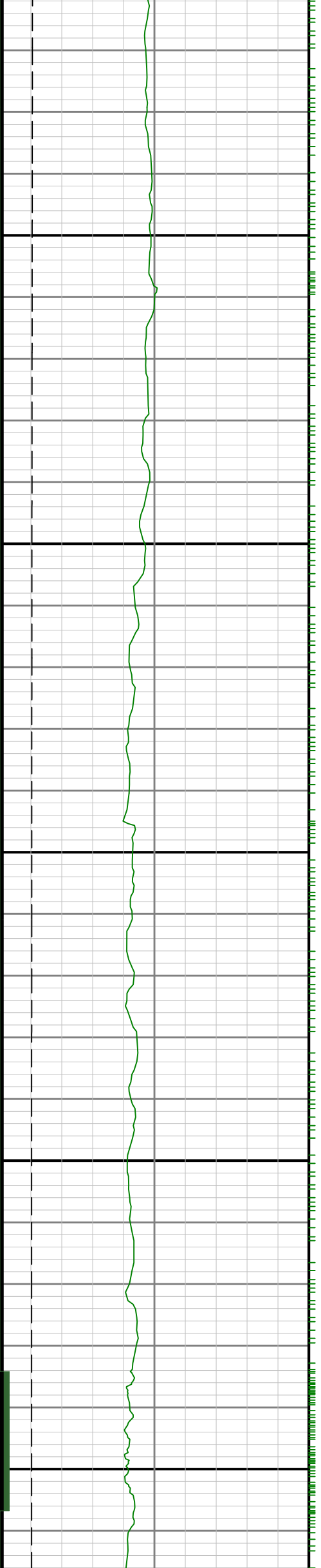


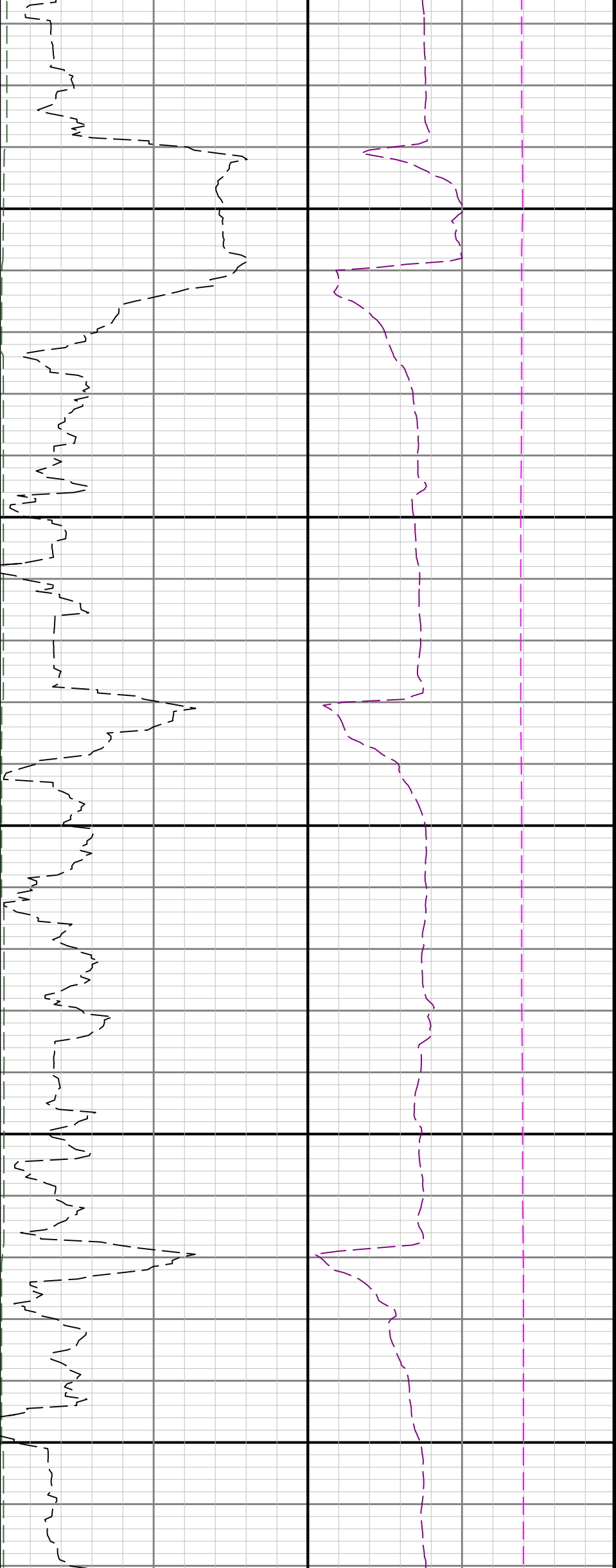


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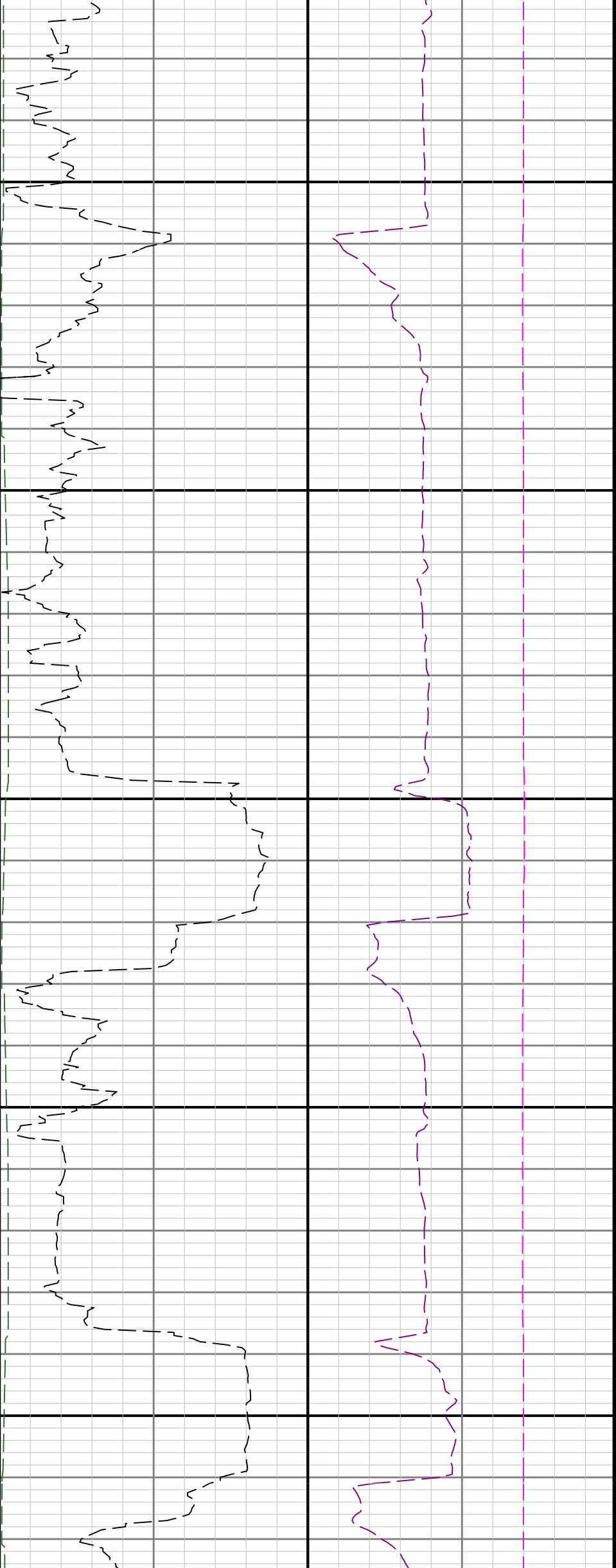
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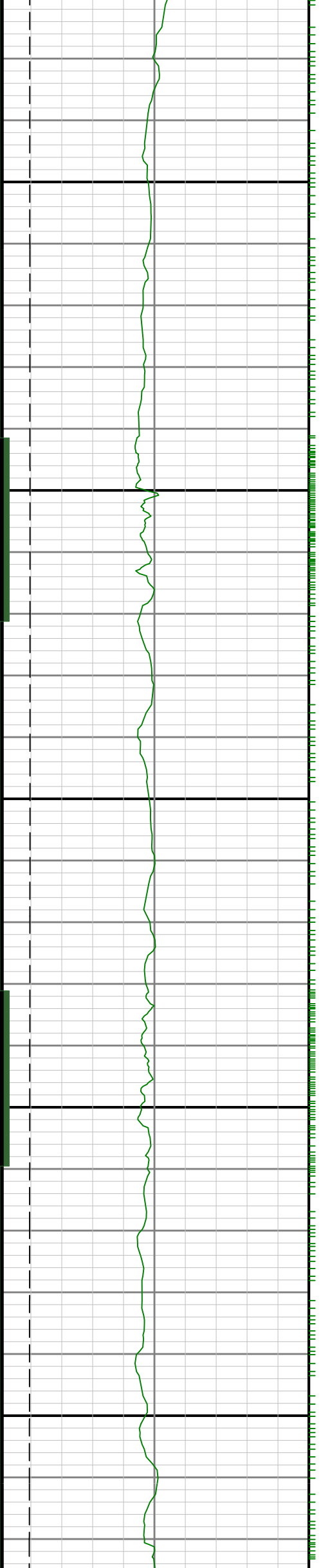
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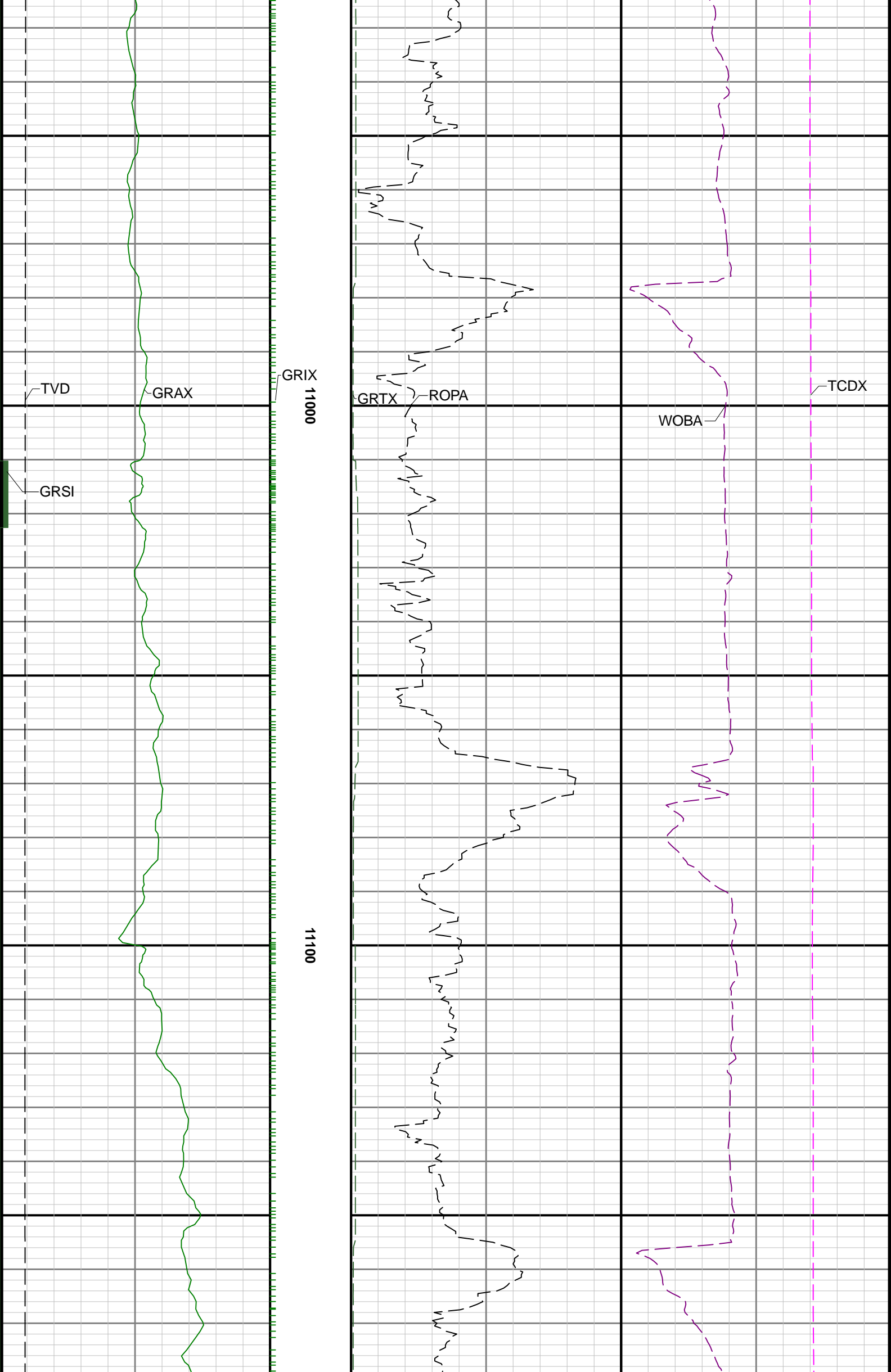


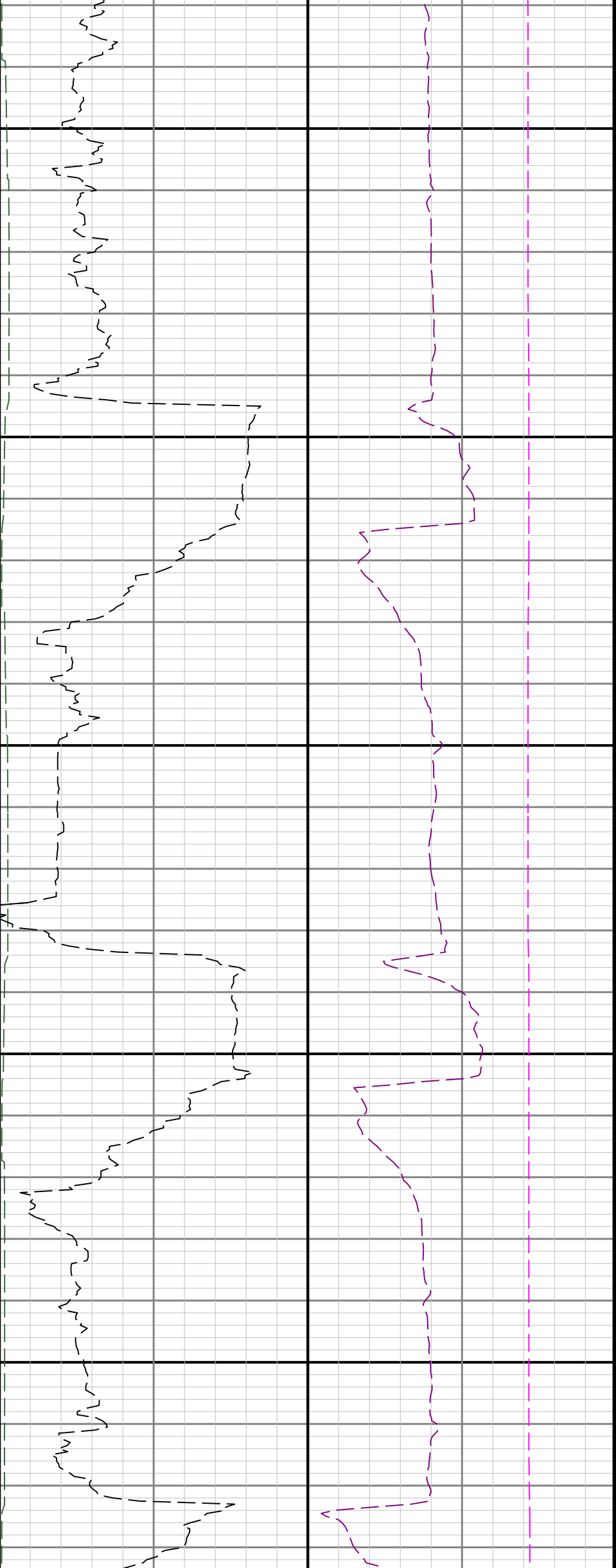
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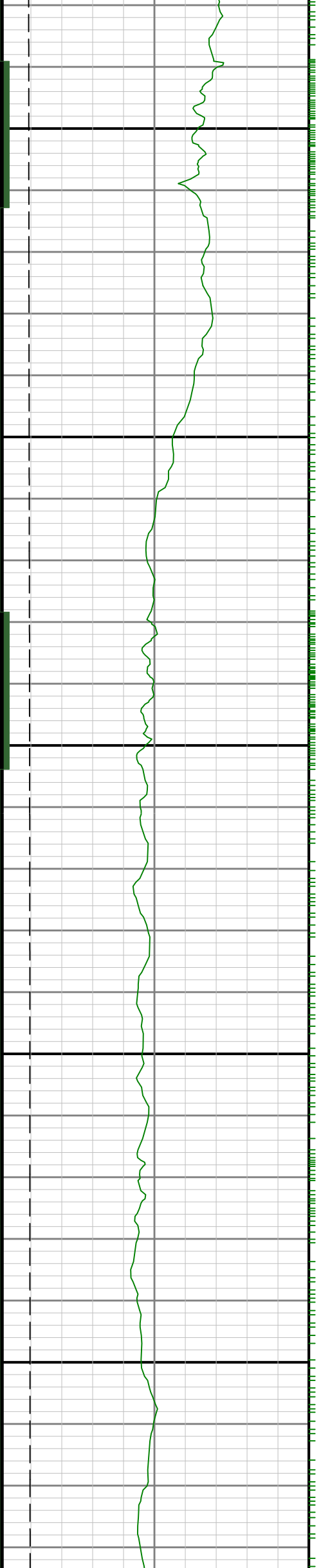


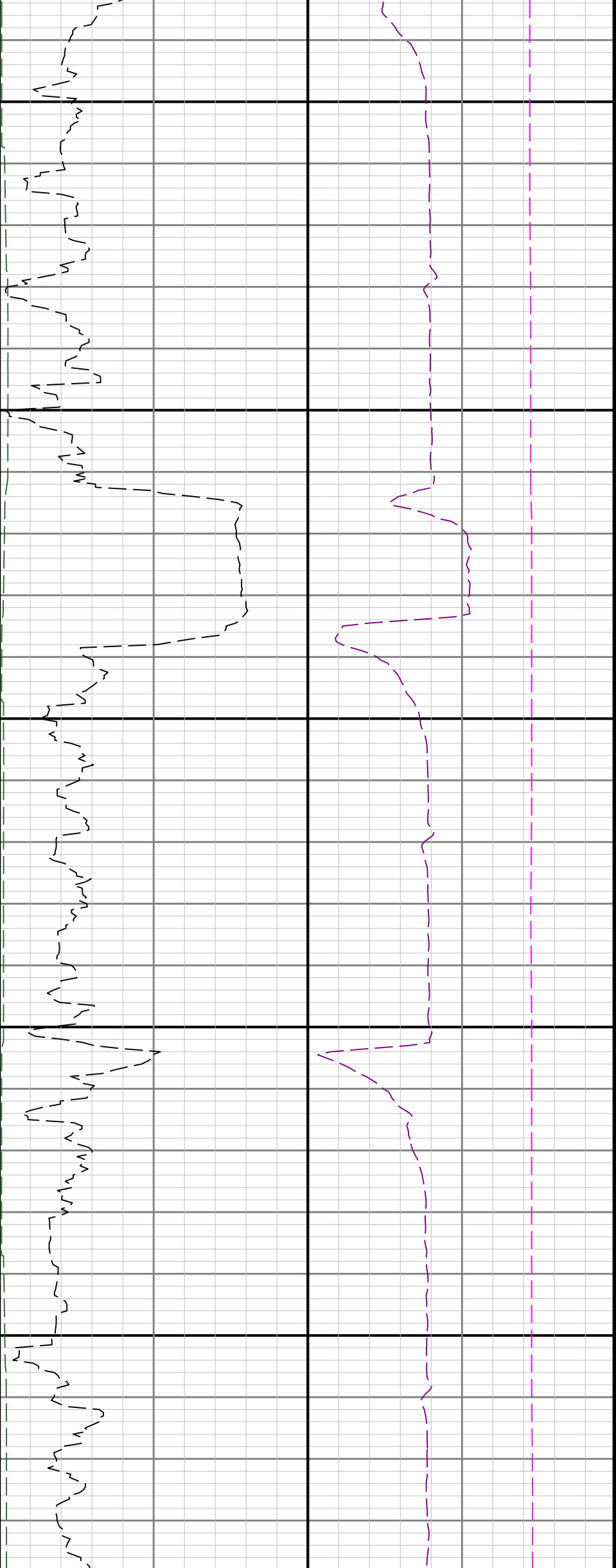


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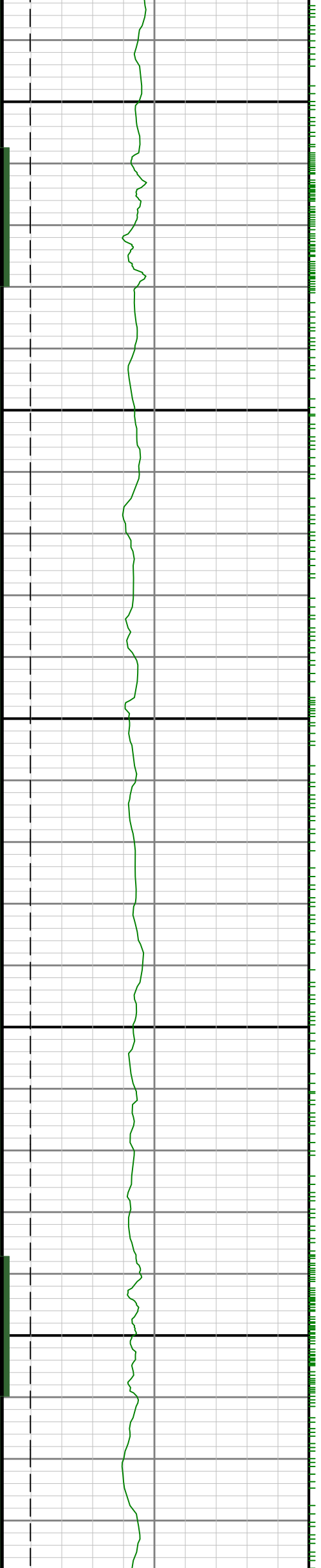
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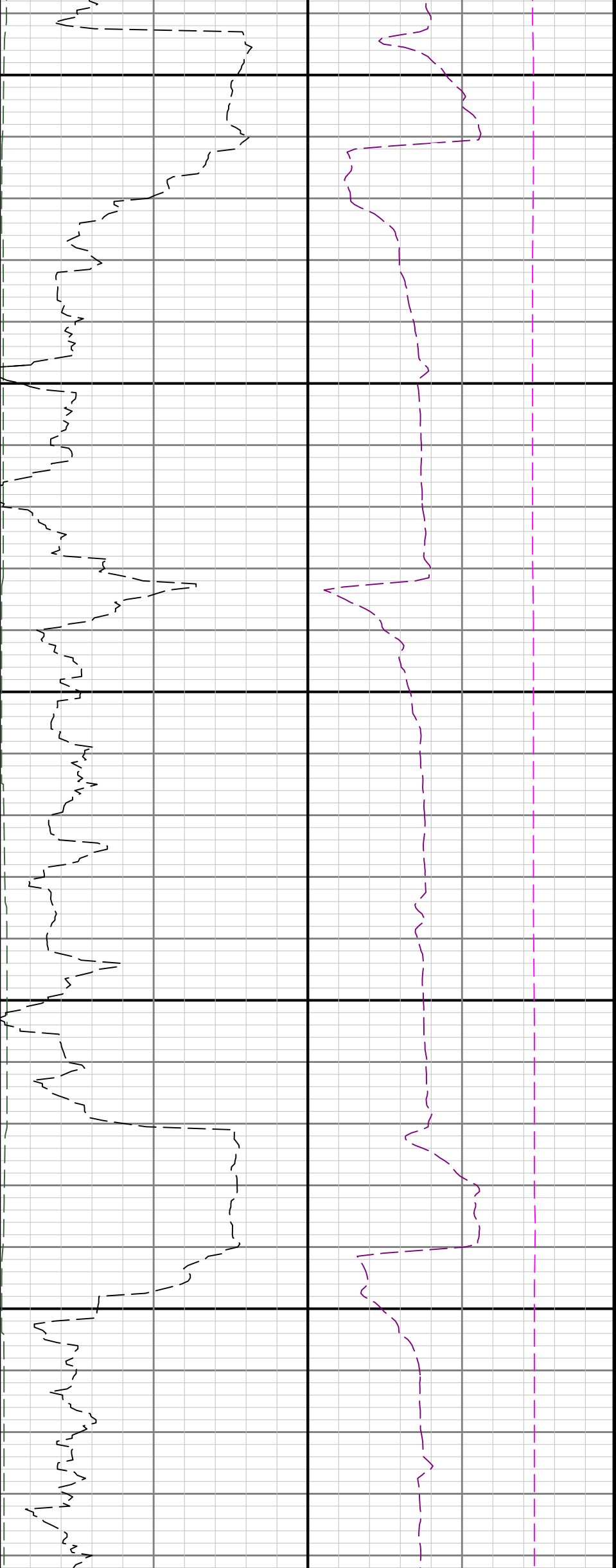




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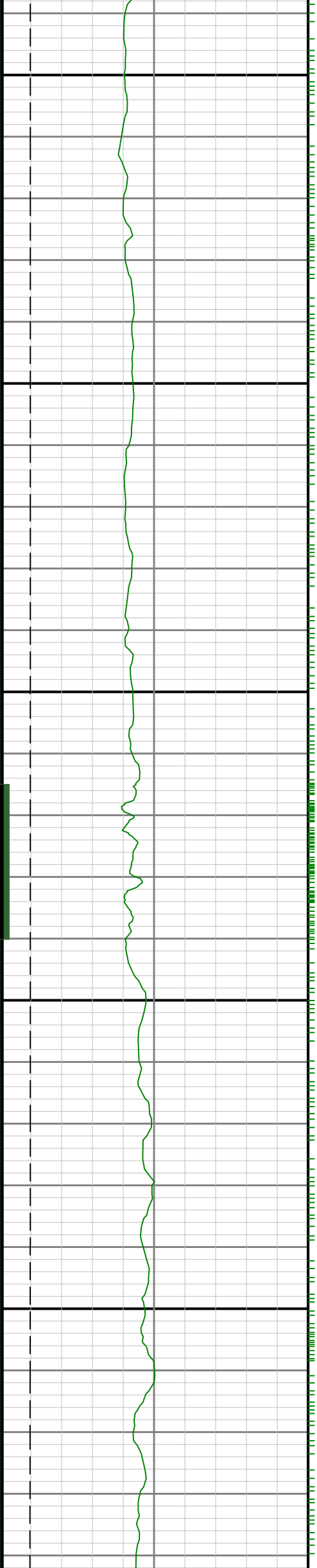


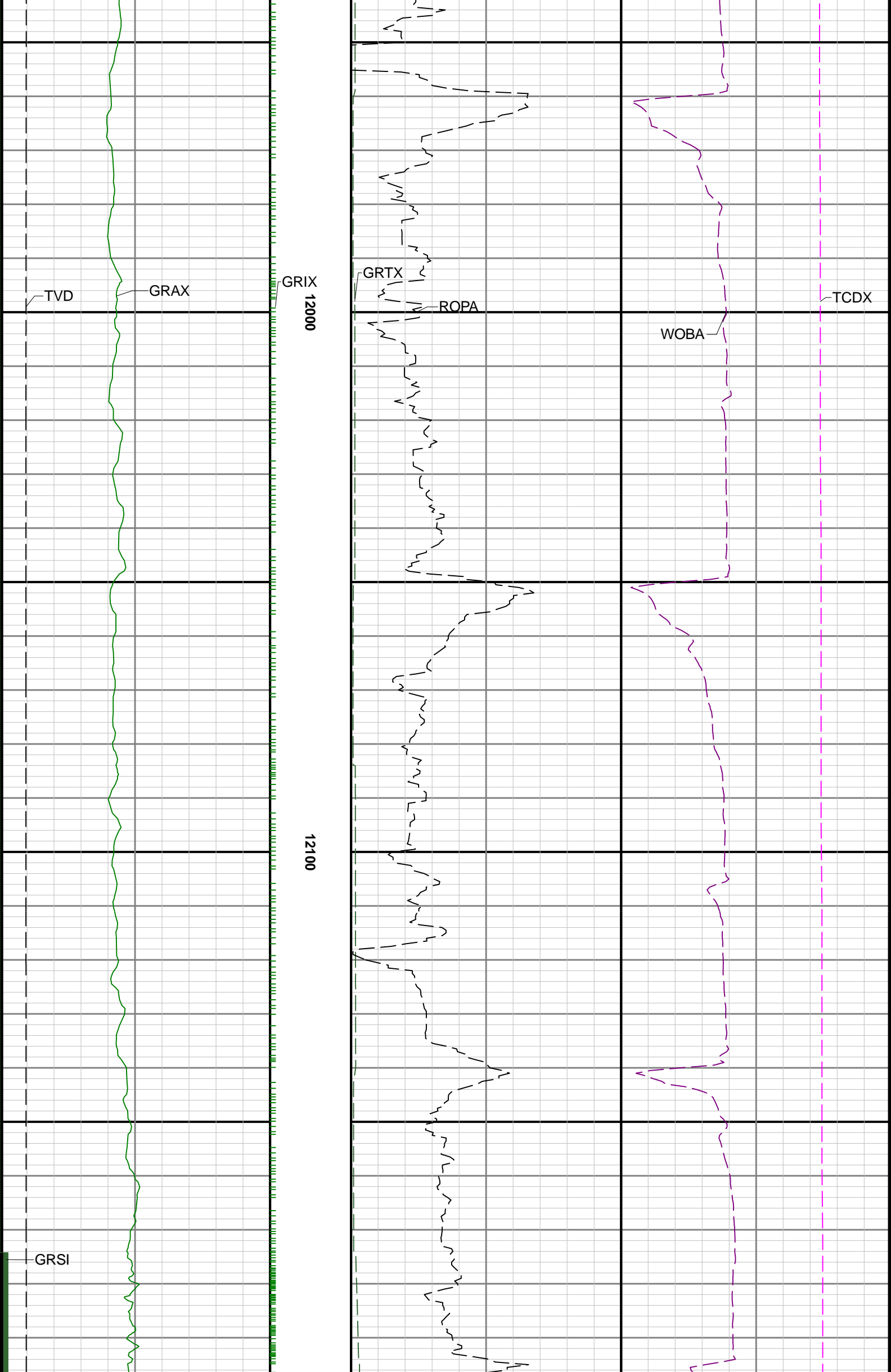


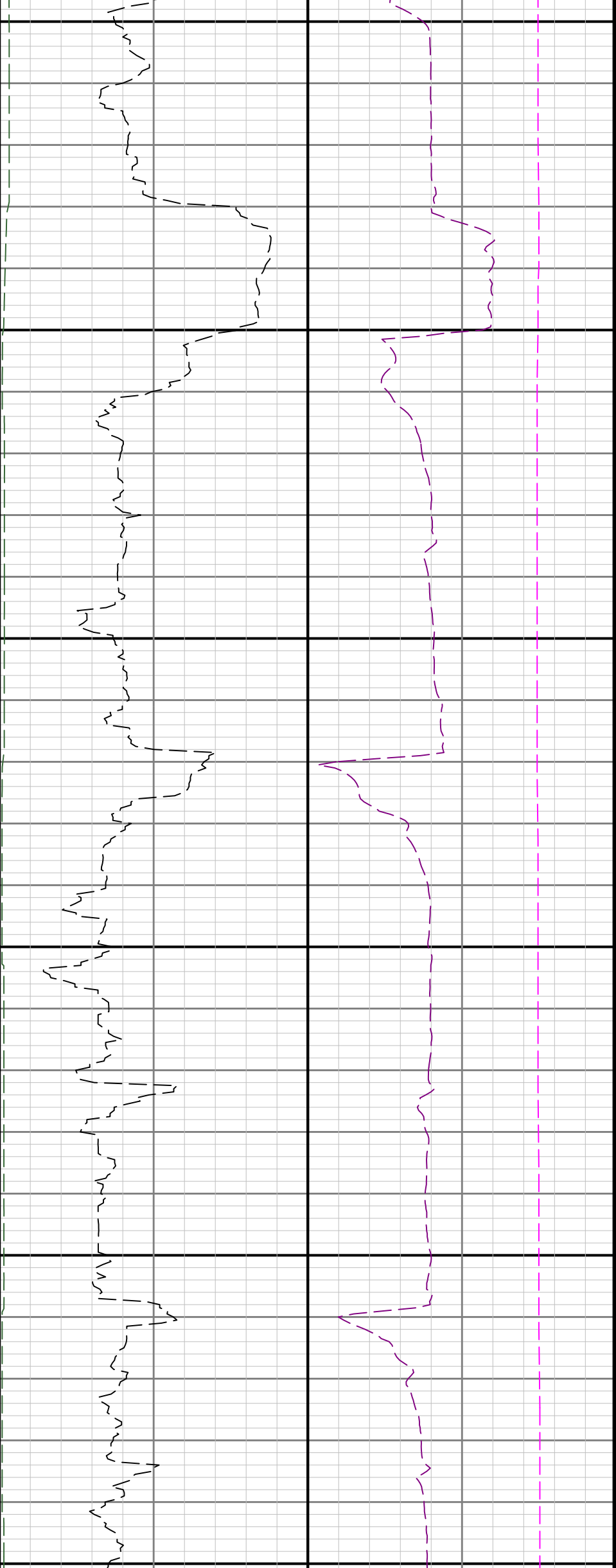
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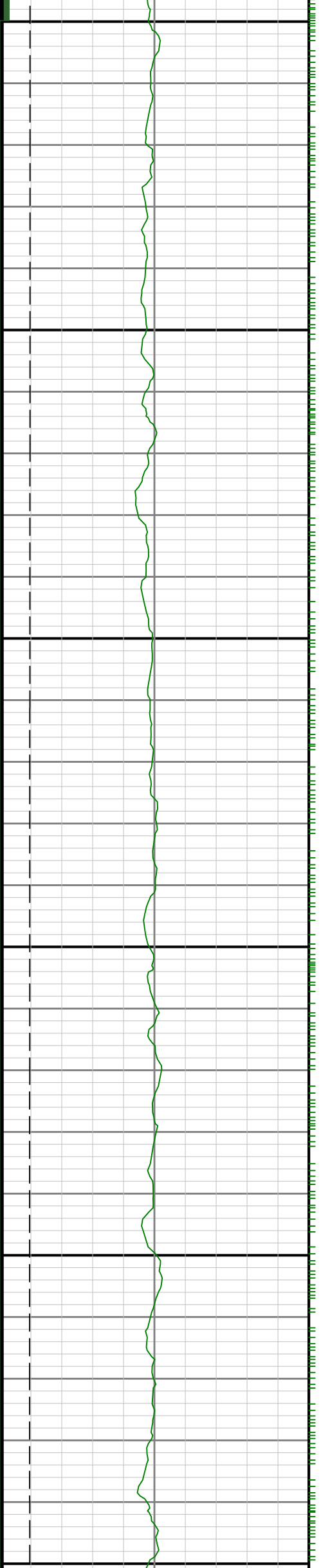


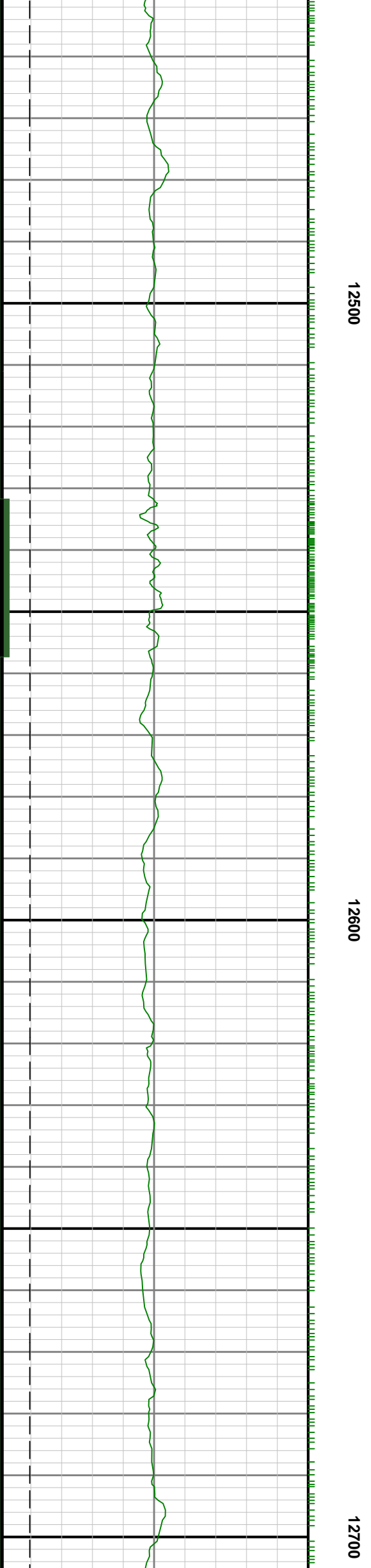
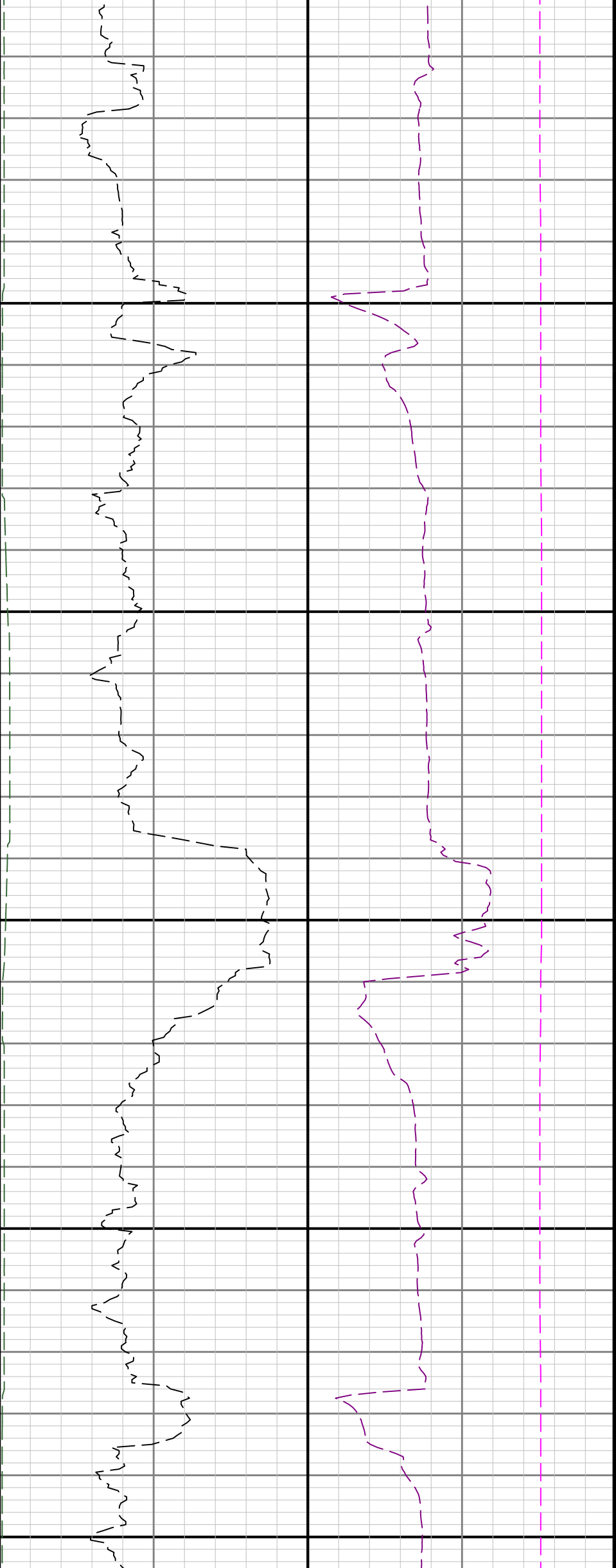


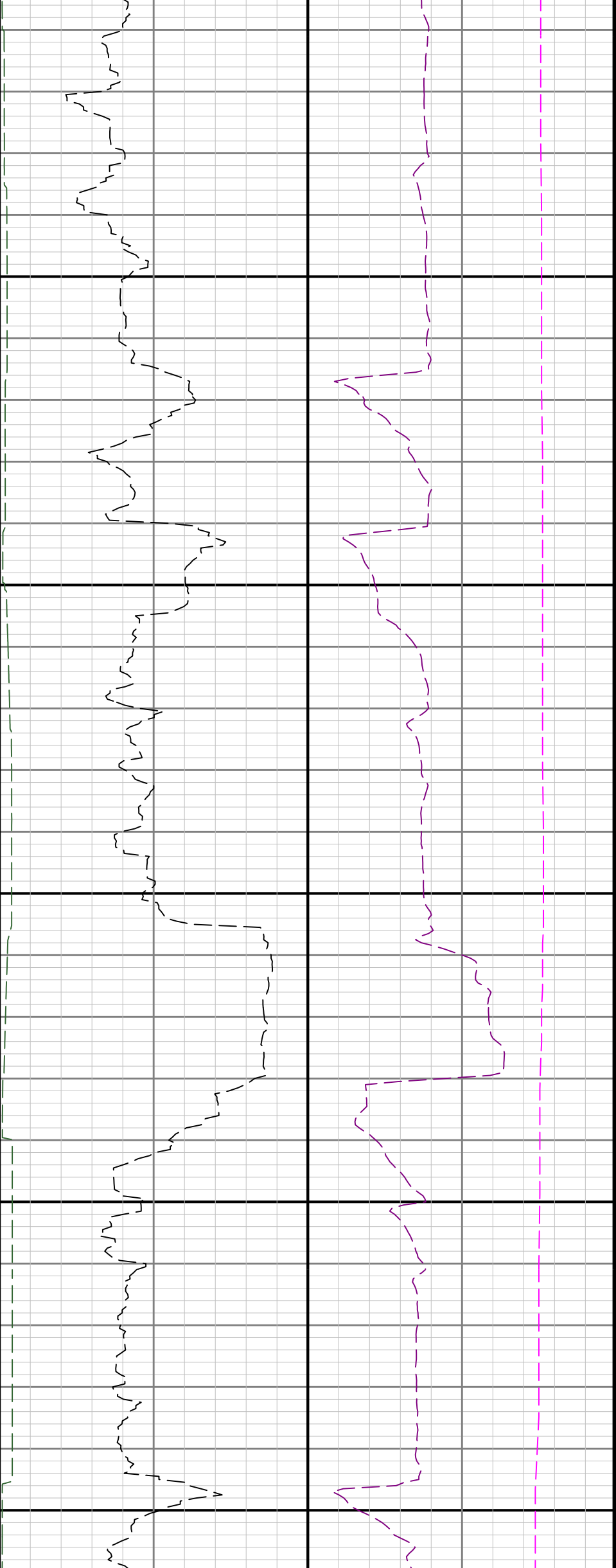
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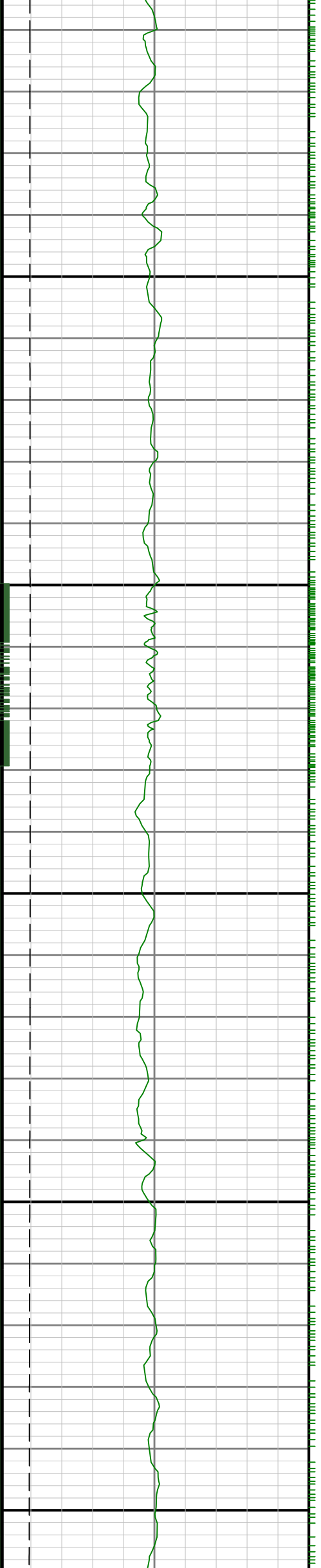


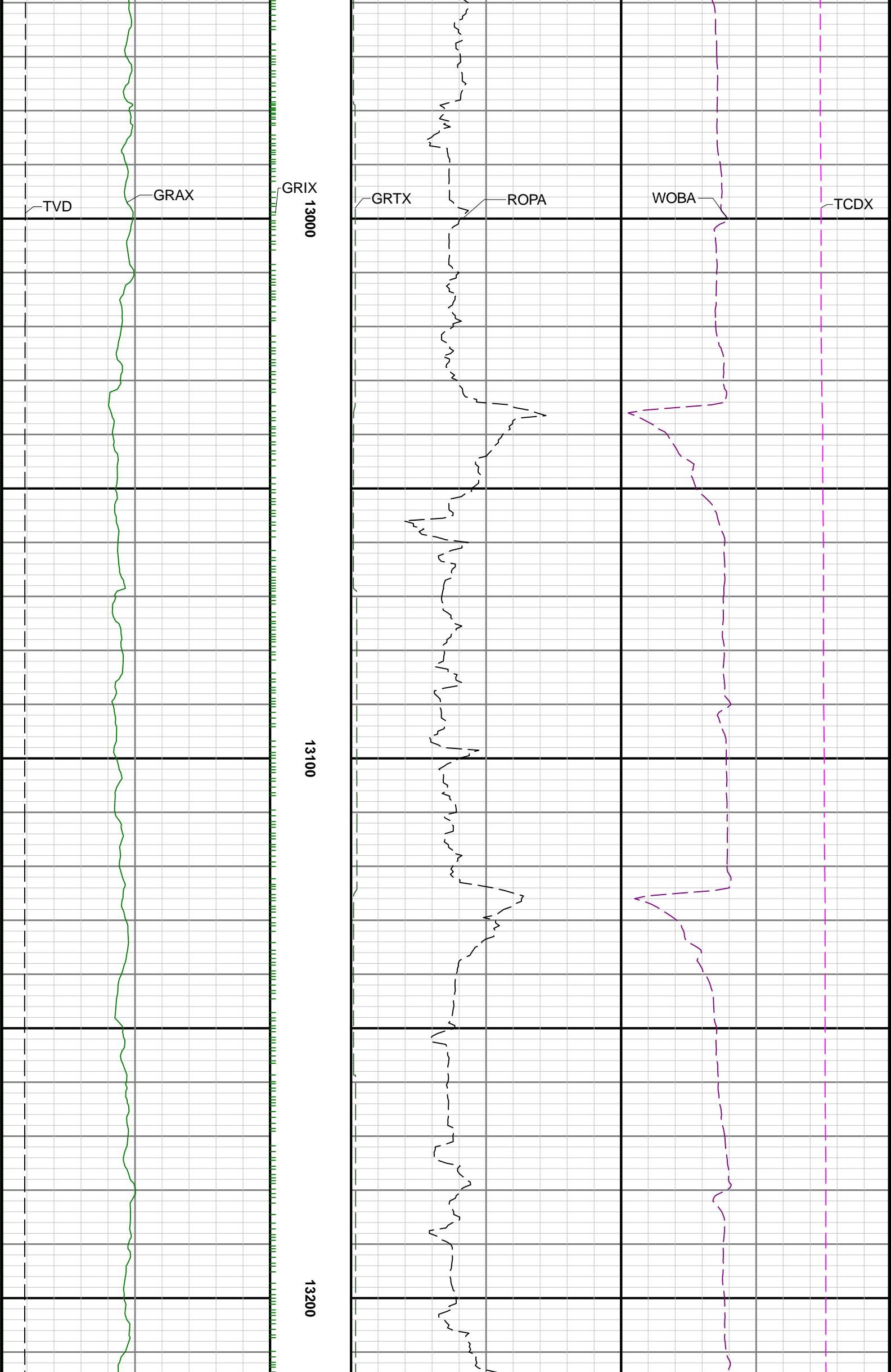


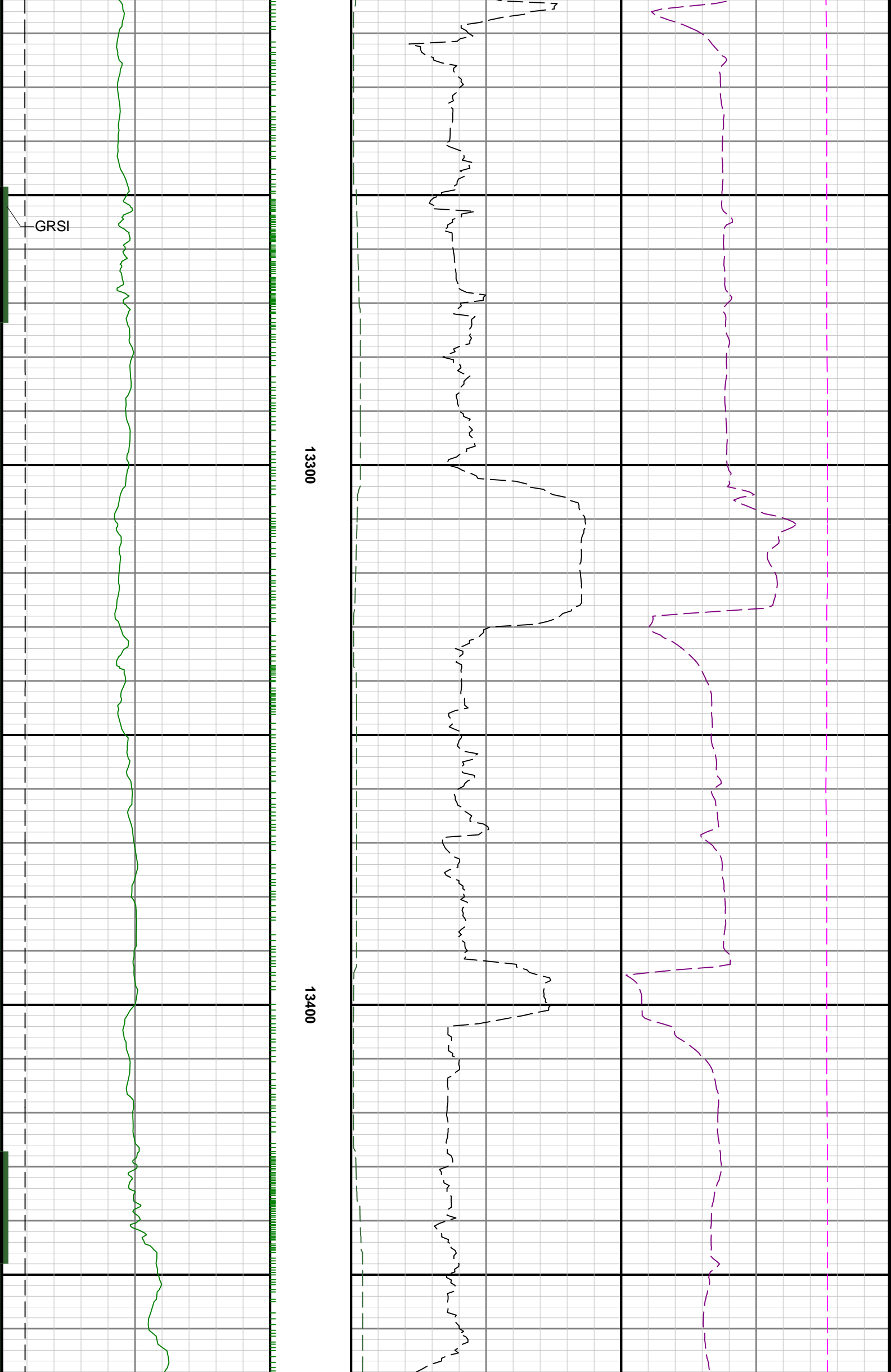


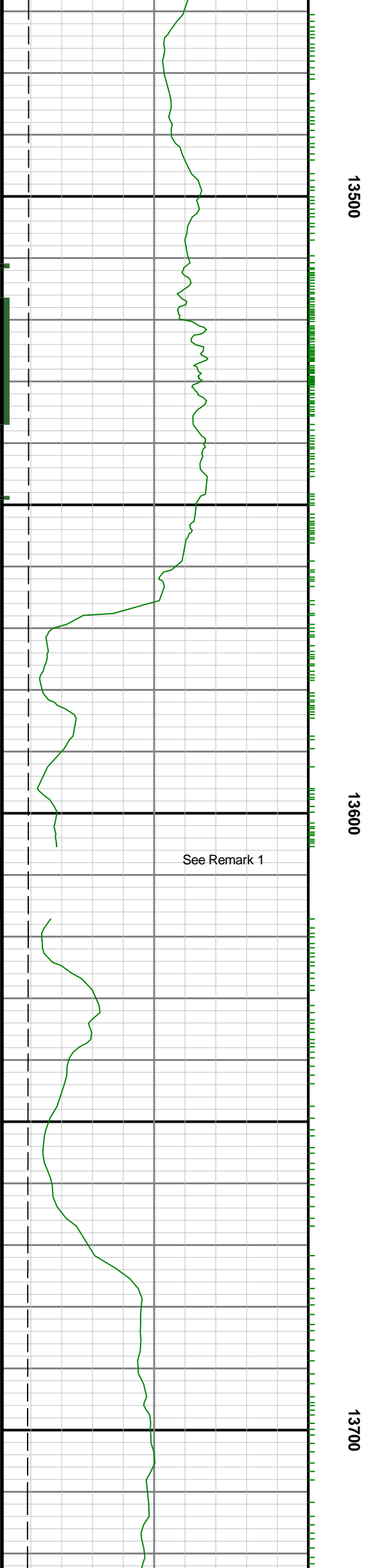
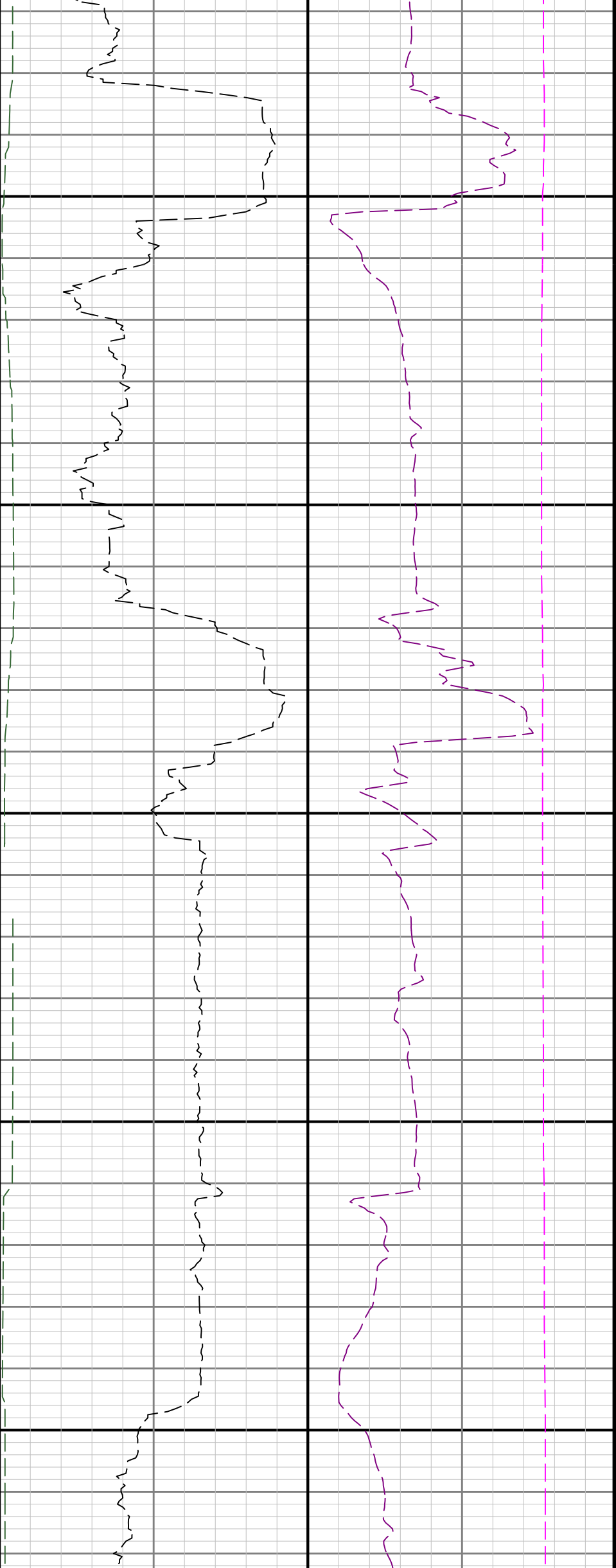
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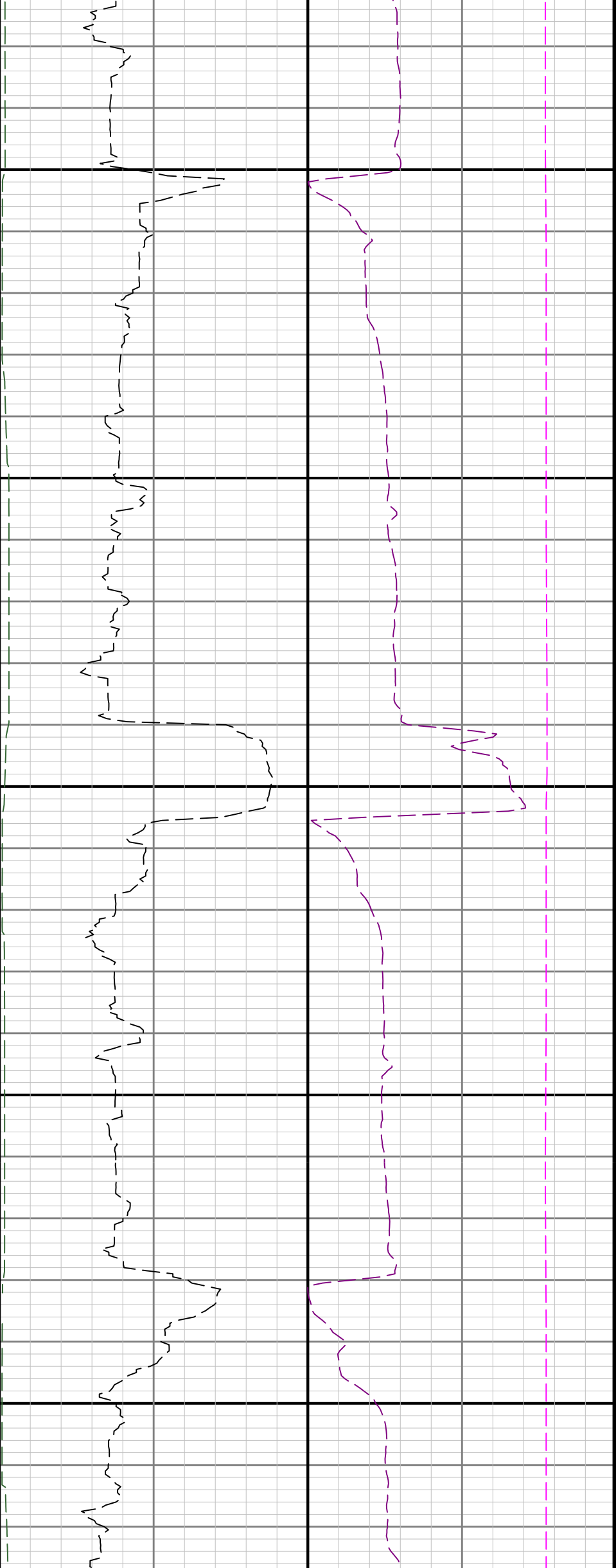
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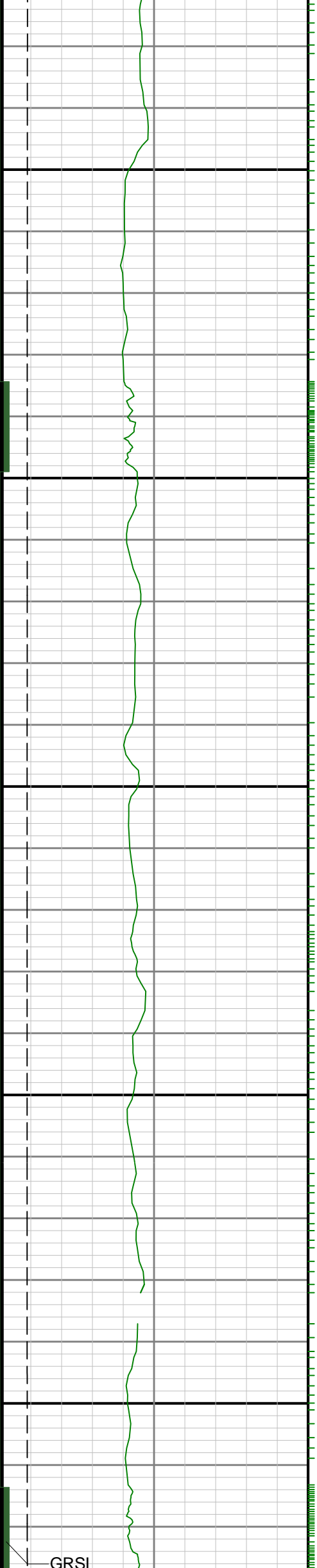




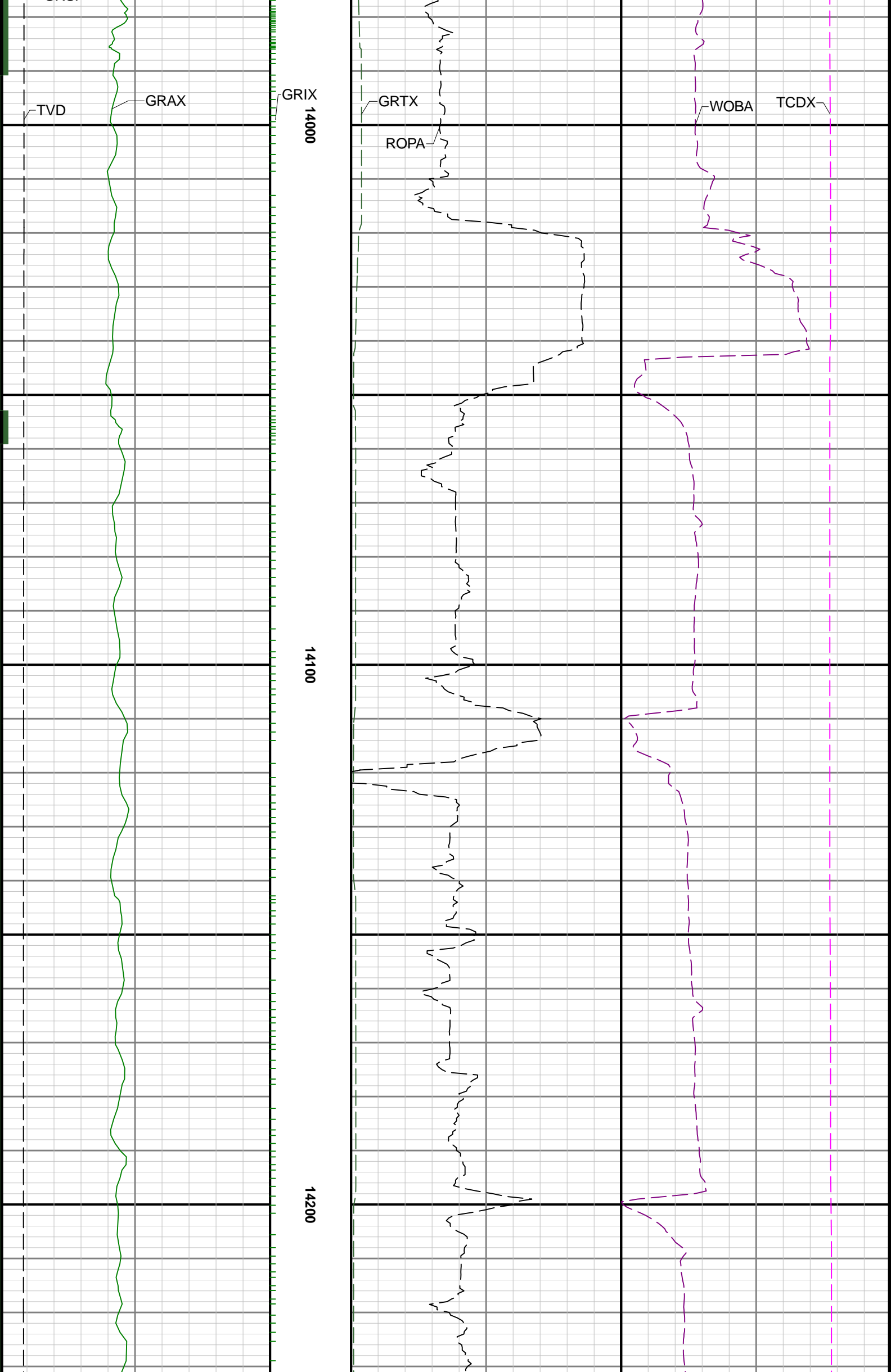


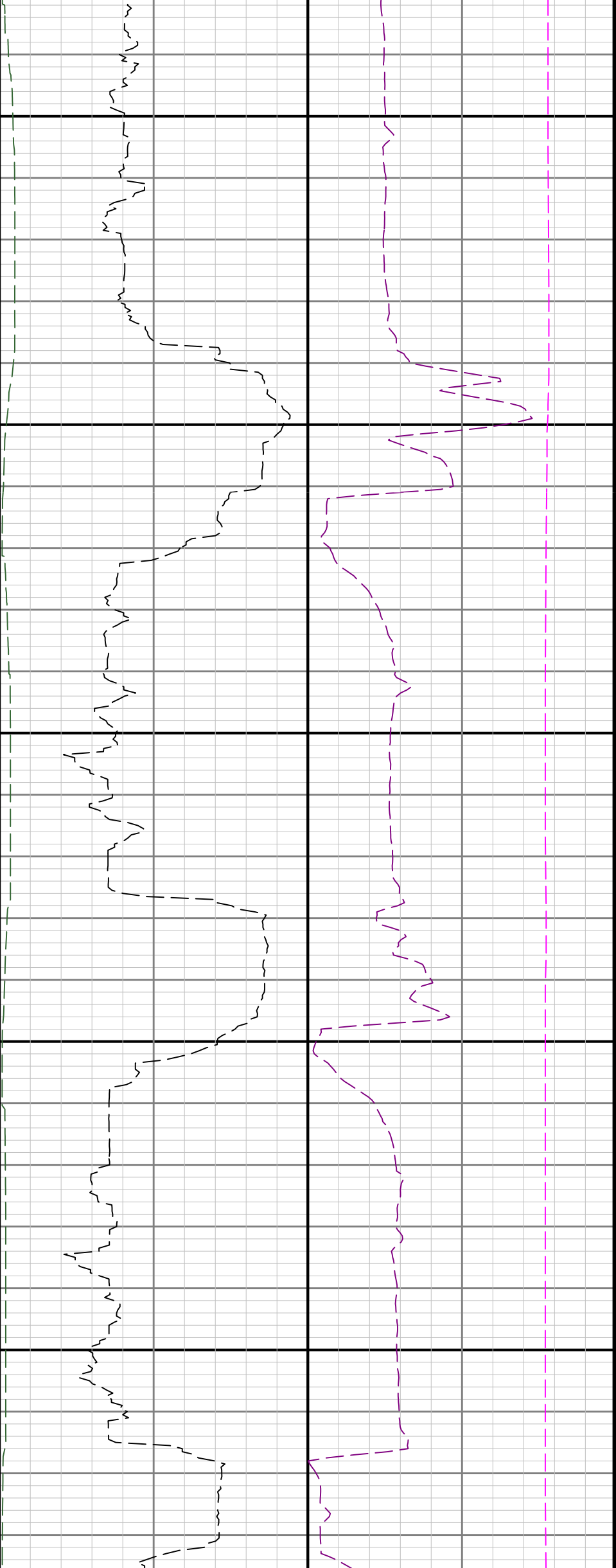
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13900



GRSI

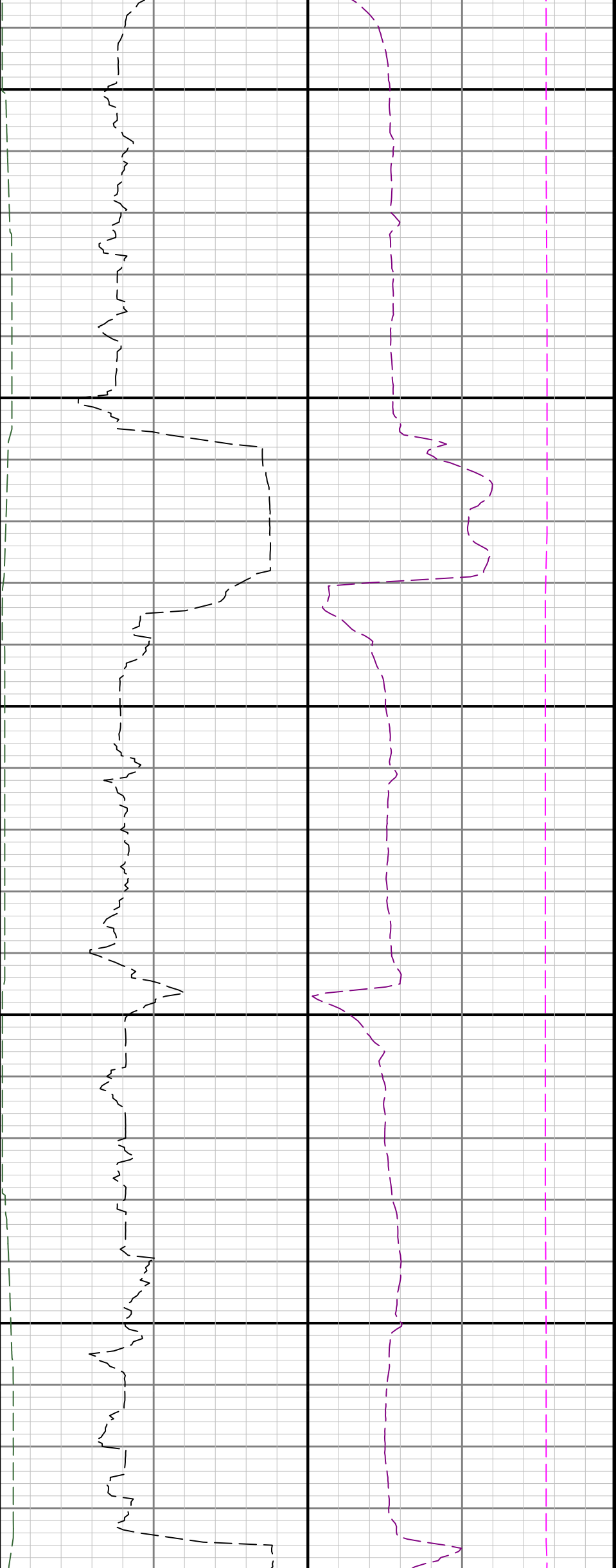




14300

14400

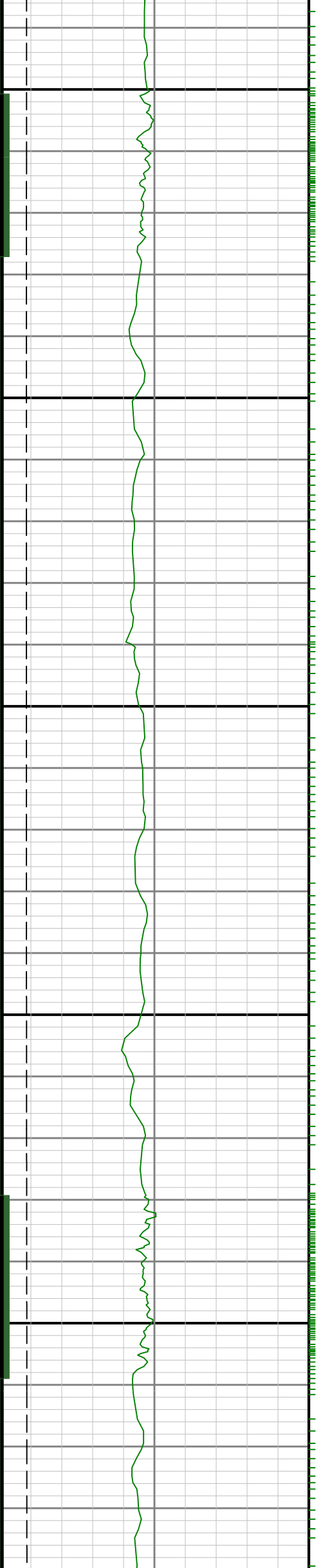


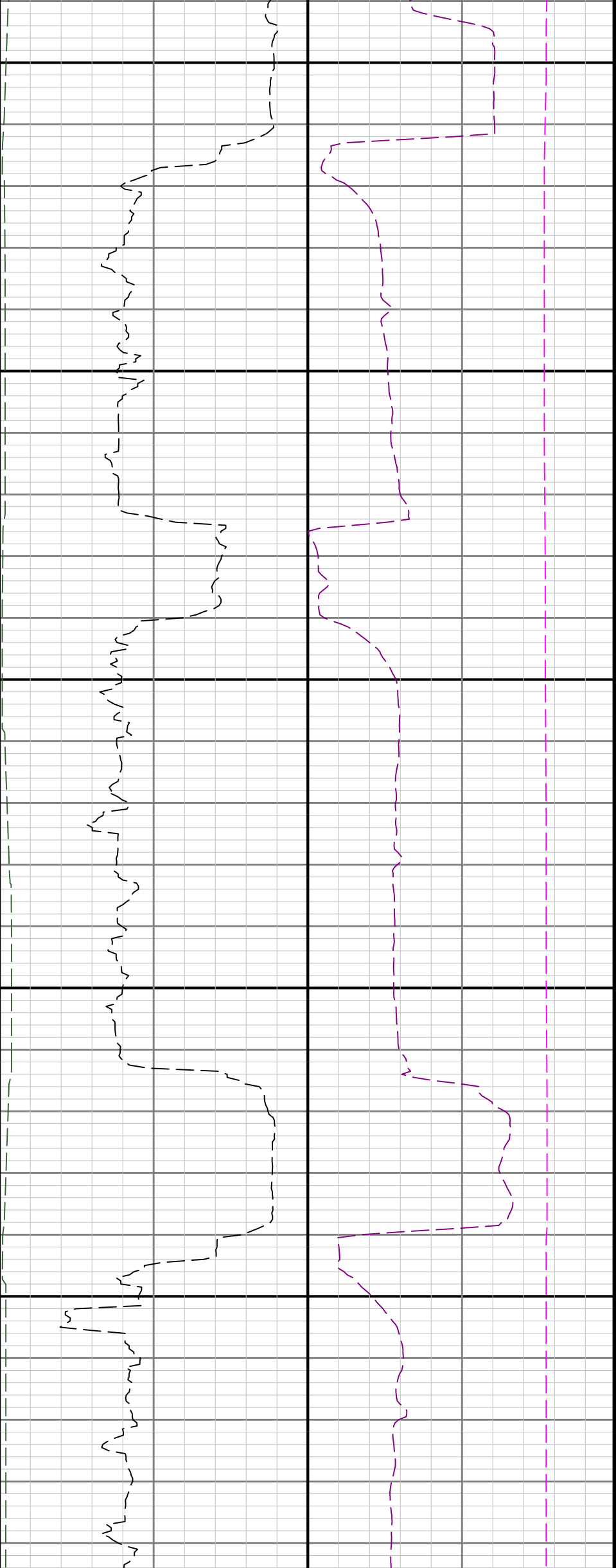


14500

14600

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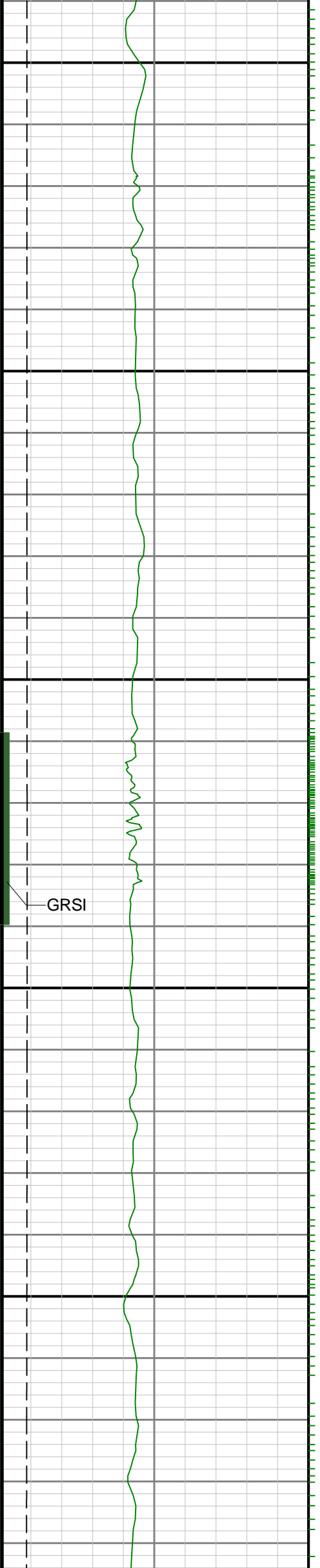




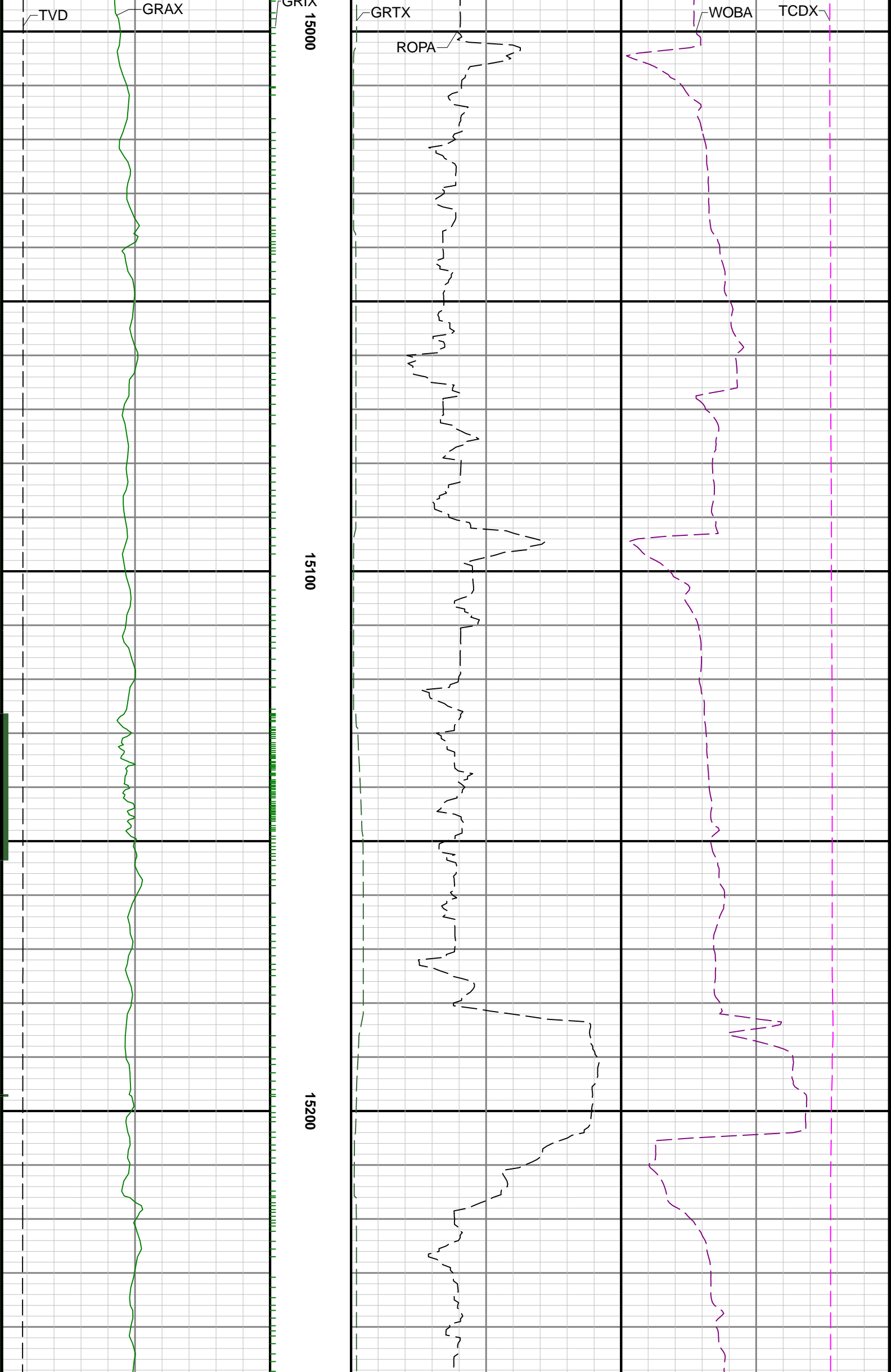
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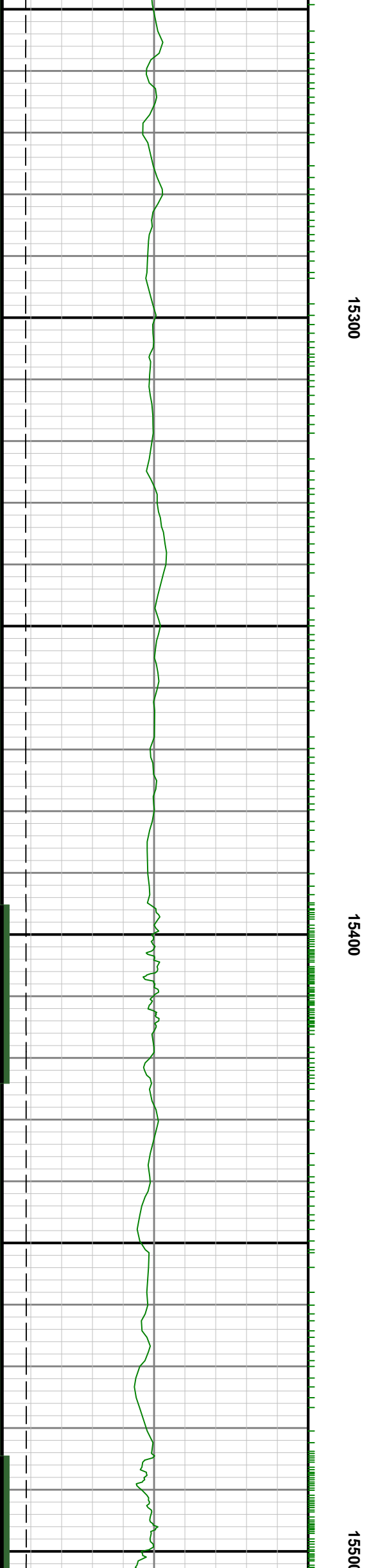
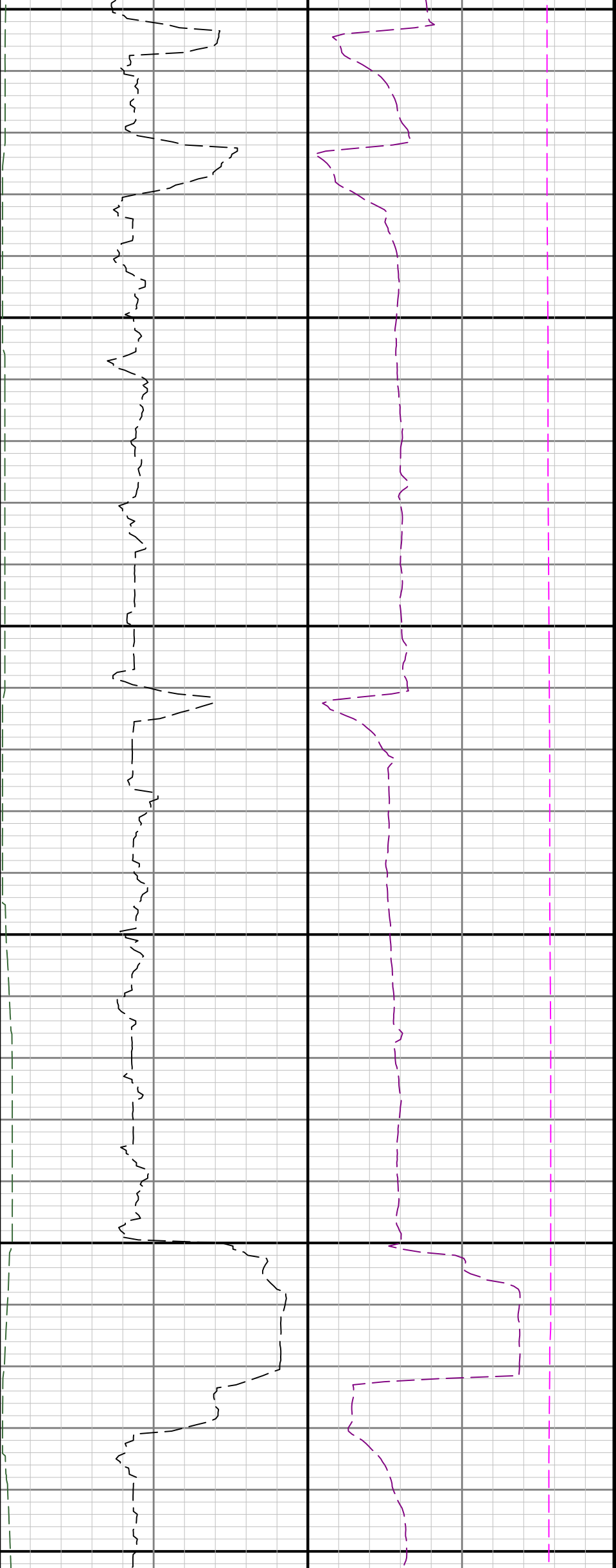
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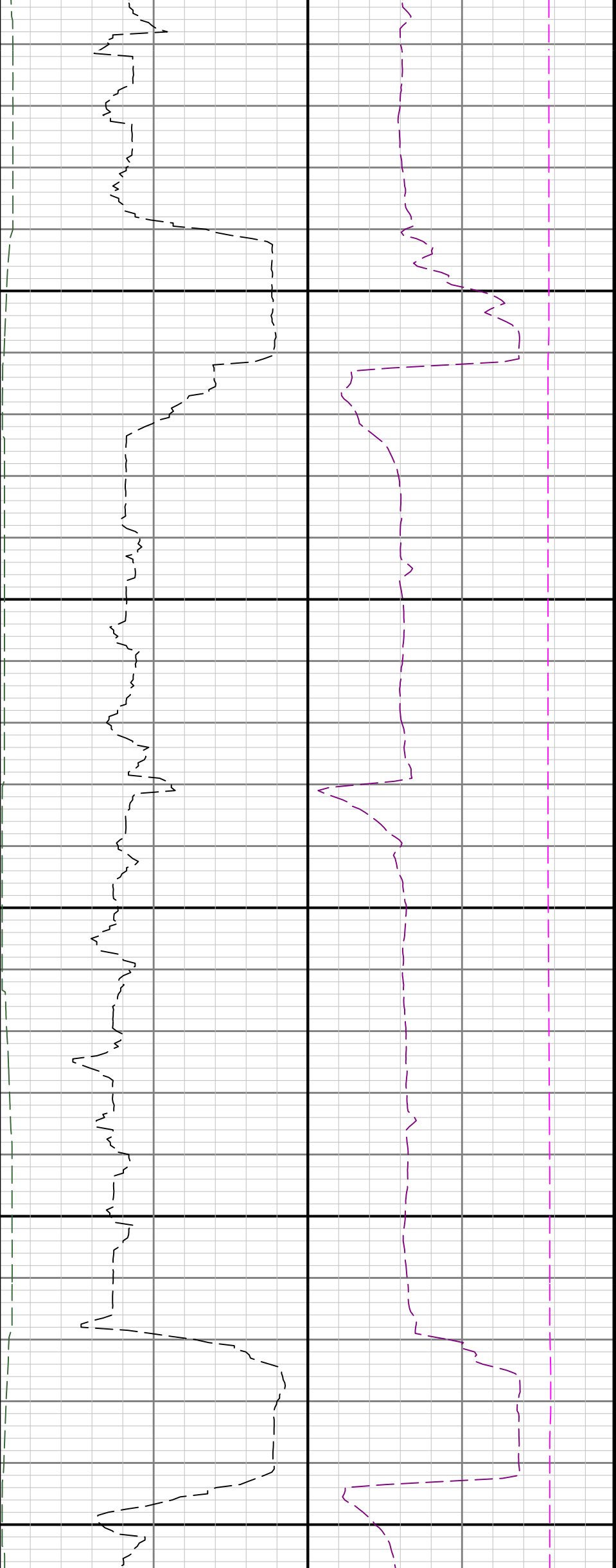
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GRSI

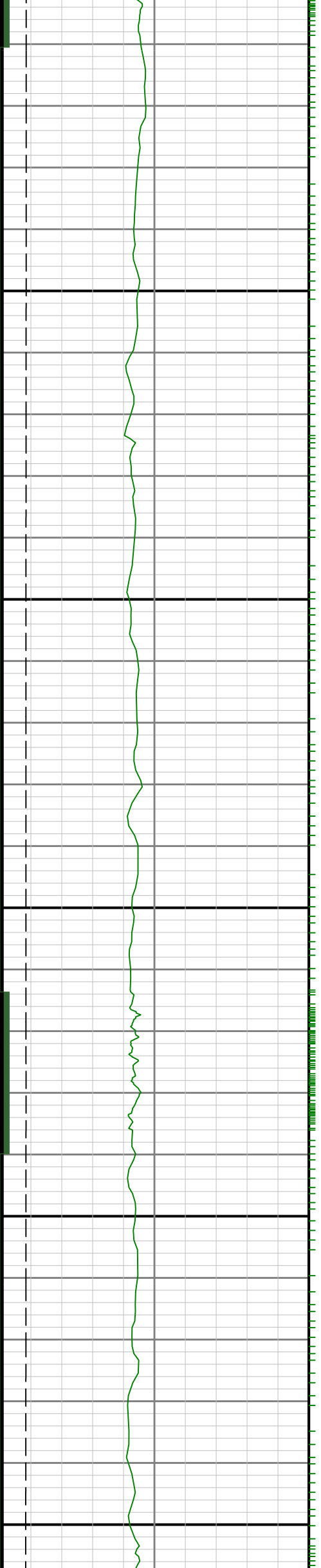




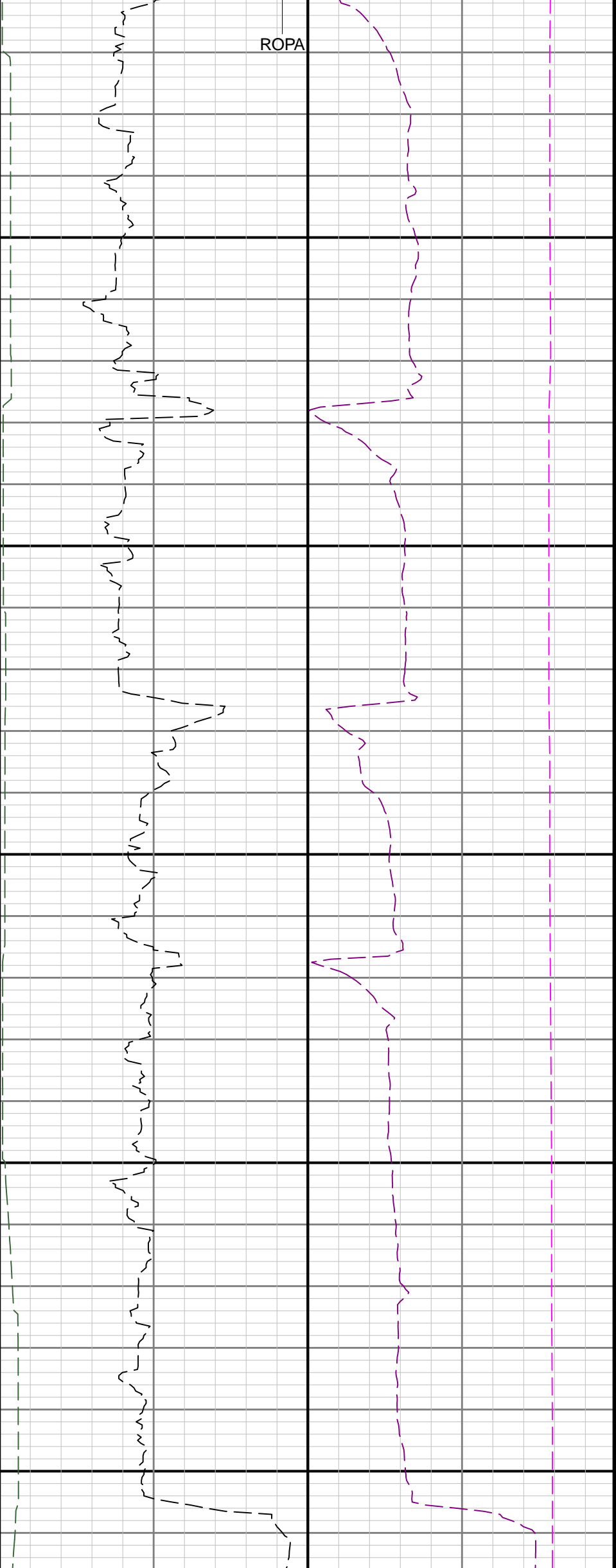


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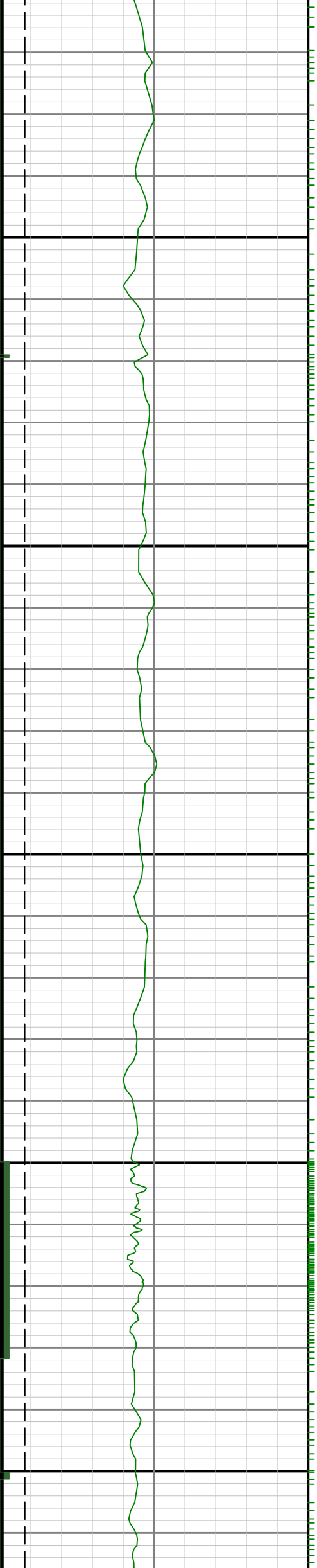


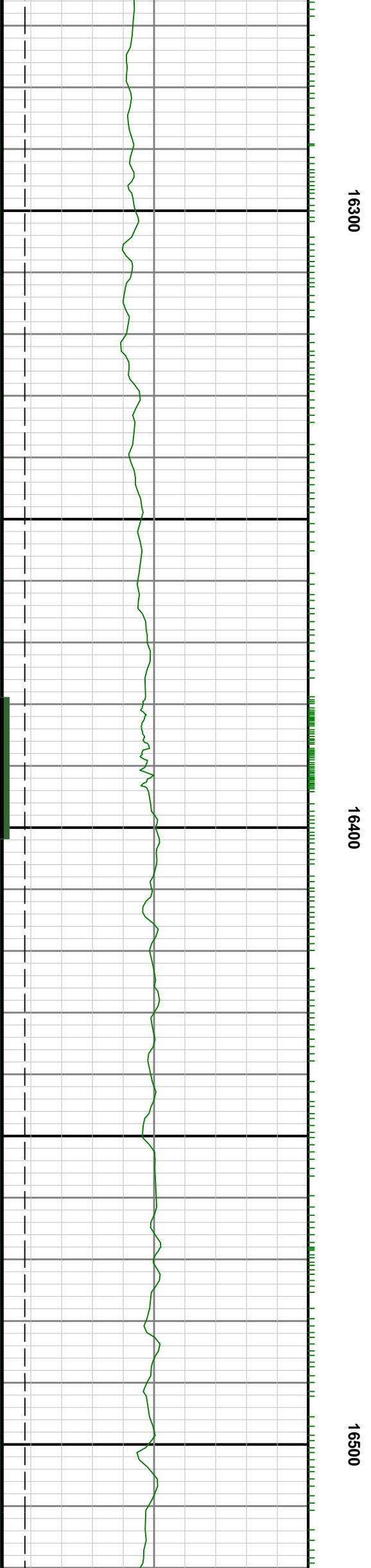
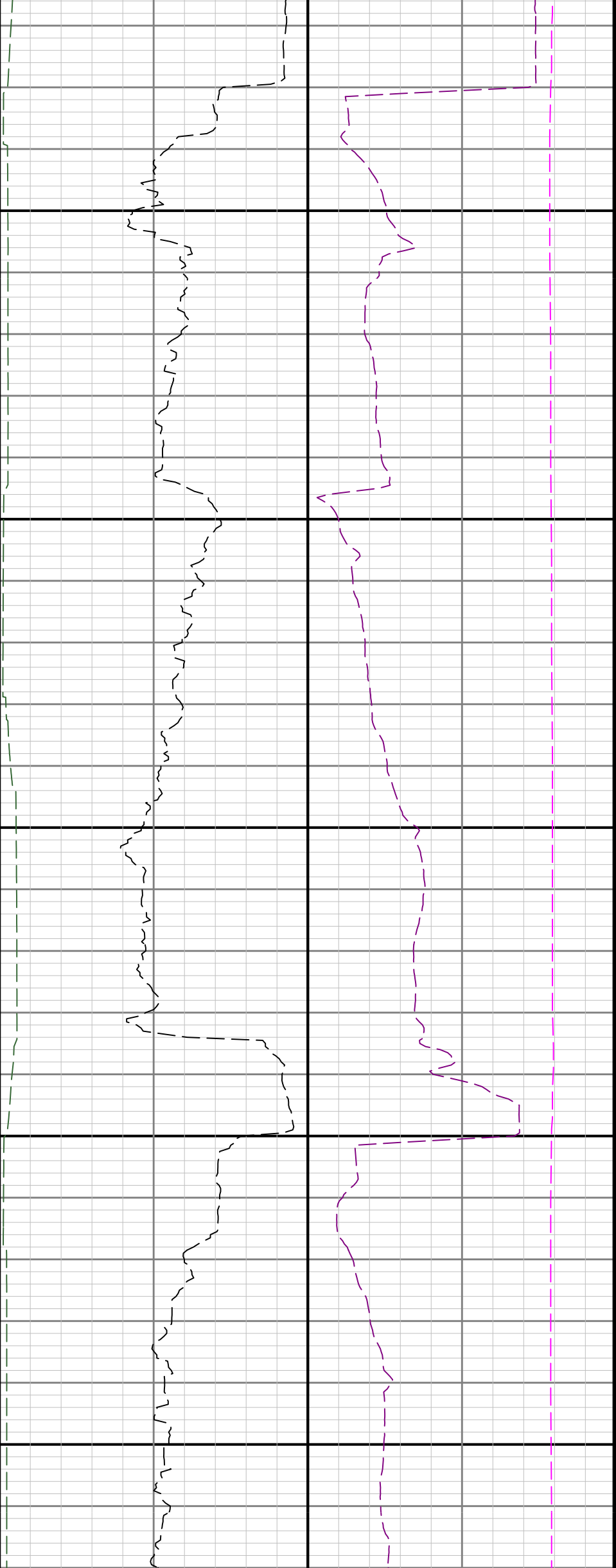


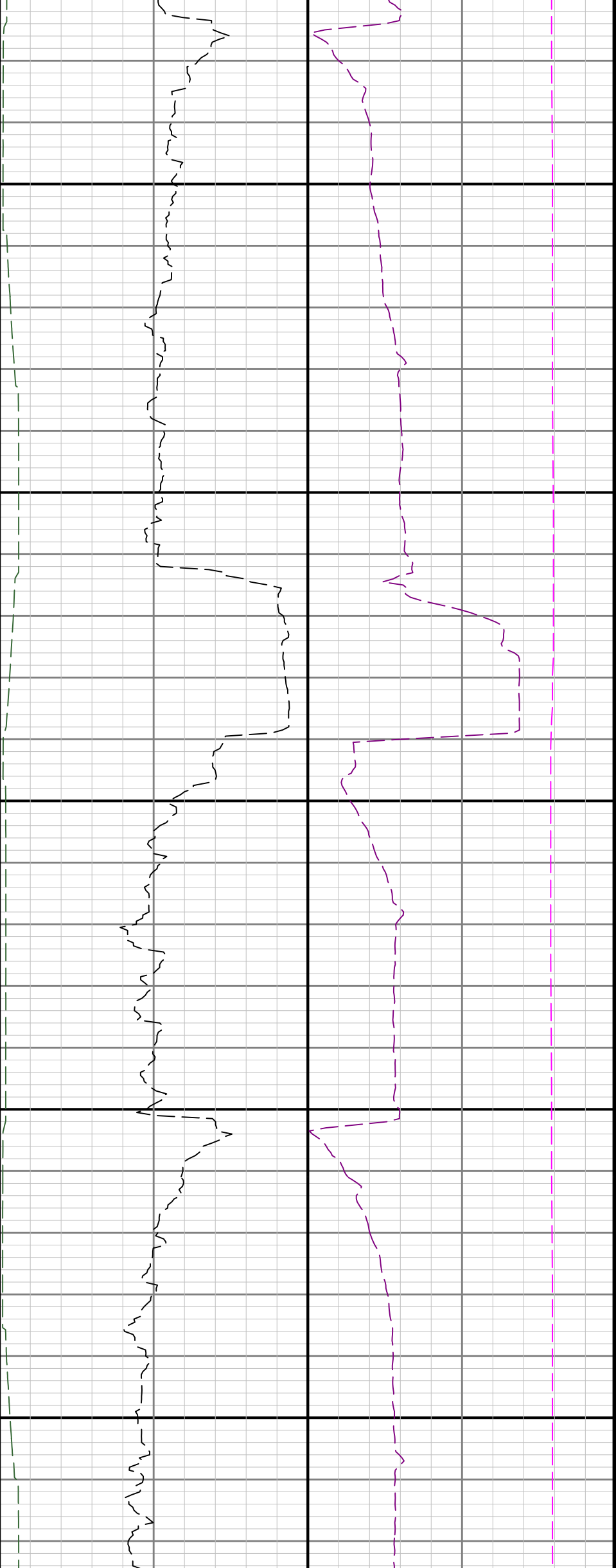


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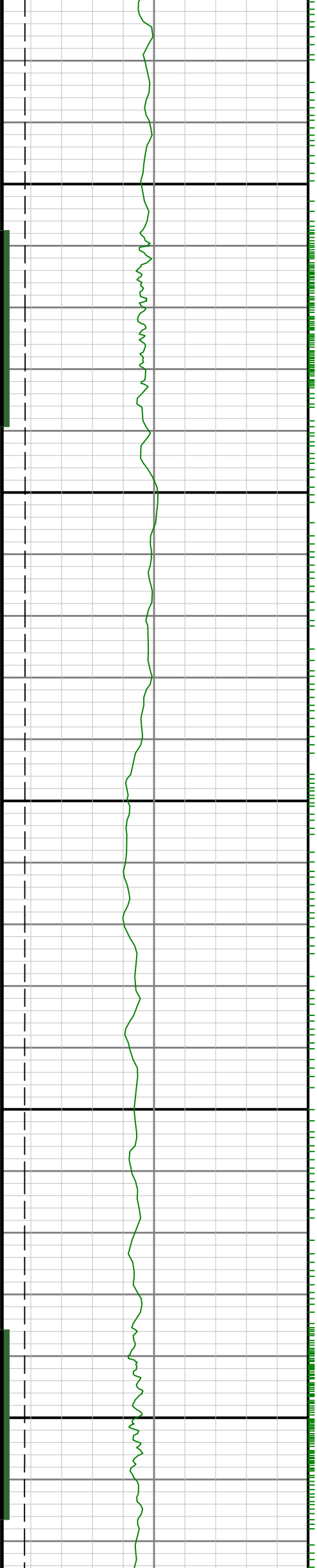


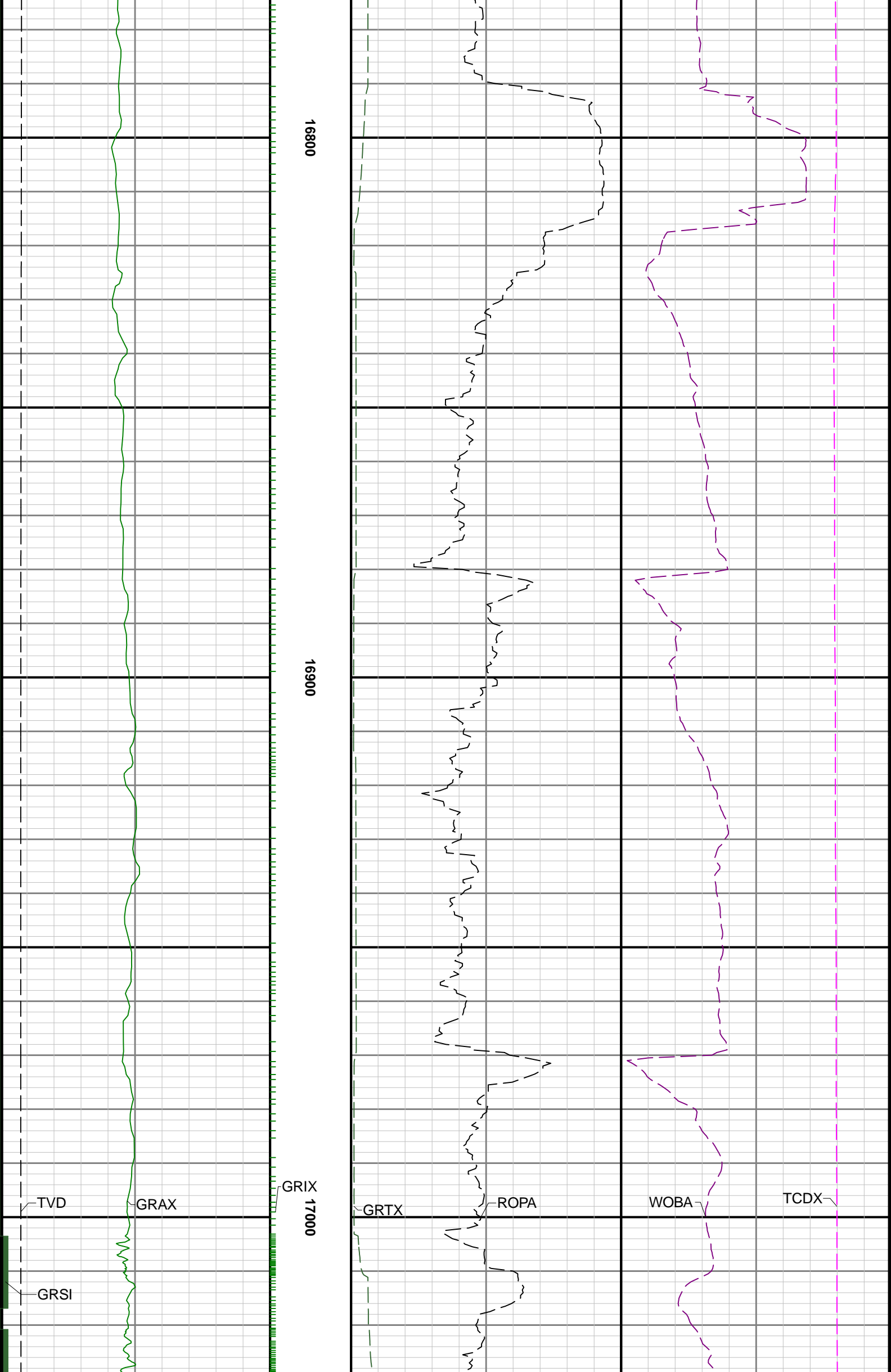


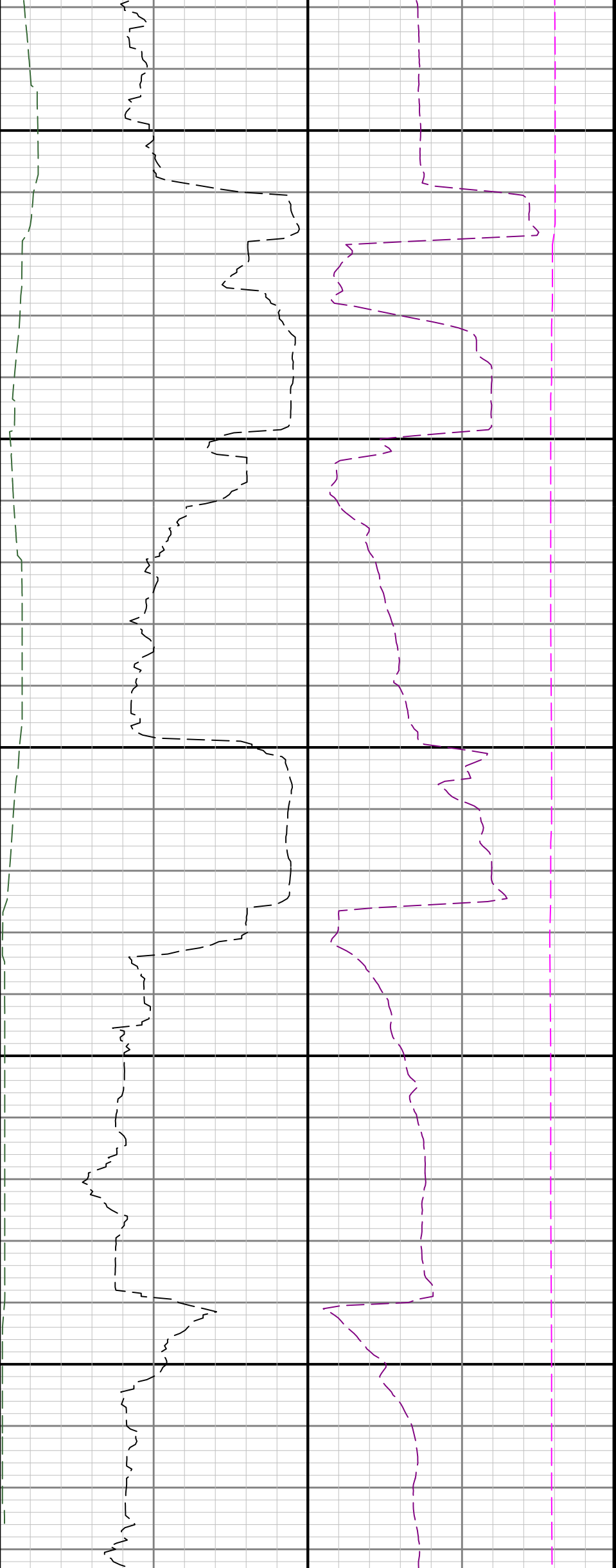


16600

16700







17100

17200

See Remark 2



17300

17400

17500

See Remark 2

