



Real Time Log

Natural Formation Evaluation  
Gamma Ray

Scale: 1:240  
Measured Depth

Company: Anadarko

Well: BARCLAY 15N-26HZ

Field: WELD COUNTY (KERR MCGEE)

Region: Continental US Country: United States

Other Services:

Status: FINAL PRINT

API Number: 05123390570000

Surface Location:  
Latitude: 40° 7' 56.662" N  
Longitude: 104° 51' 23.665" W

Directional  
VSS

Permanent Datum (P.D.): Mean Sea Level Elevation: 4948.00 ft.

Elevations: N/A

Log Measured From: Rig Floor 16.00 ft. Above P.D.

KB: 4964.00 ft.  
DF: 4948.00 ft.  
GL:

Depth Reference: Driller's Depth

Interval Logged

Dates

Magnetic Field Reference

Top: 6750.0 ft. Date From: 10 Mar 15 Dip Angle: 66.79° Az Reference North: True

Bottom: 17250.0 ft. Date To: 18 Mar 15 Total Mag to Reference

Spud Date: 09 Mar 15 Field Strength: 52753.0 nT North Correction: 8.56°

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
8.750 in.	1130.0 ft.	7737.0 ft.	9.625 in.	N/A	Surface	1126.0 ft.
6.125 in.	7737.0 ft.	17250.0 ft.	7.000 in.	N/A	Surface	7713.0 ft.

Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Based Mud	Surface	17250.0 ft.	8.750 in.	85.0 ft.	0.6° / 19.8°	86.4° / 180.7°
			6.125 in.	85.0 ft.	86.4° / 180.7°	87.9° / 179.2°
					/	/
					/	/
					/	/
					/	/
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					/	/

Acquisition System Software Version

Other

Advantage	2.20U4	Rig / Contractor:	XTREME 23	/	ANADARKO
PATS	6.4.1.34	Job No:	7086421	/	D&E
		District / Unit:	RMD	/	

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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	1	8.750	PDC	3.000	Steerable	6750.0	7696.0	6750.0	7737.0	12 Mar 15	12:47	13 Mar 15	03:35	15
2	2	2	6.125	PDC	3.000	Steerable	7696.0	13093.0	7737.0	13226.0	14 Mar 15	18:15	16 Mar 15	10:07	40
3	3	3	6.125	PDC	3.000	Steerable	13093.0	17200.0	13226.0	17250.0	17 Ma 15	11:56	18 Mar 15	22:50	36

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Sumanth Belawadi	11 Mar 15	15 Mar 15	Andrew Clancy	15 Mar 15	18 Mar 15	Jason Williams	11 Mar 15	18 Mar 15

Mud Properties Record

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+ (%)
12 Mar 15 0800	1	6200.0	Water Based Mud	9.2	45	7.4	N/A	1.0/93	Active Pits	3900	N/A
15 Mar 15 0800	2	9525.0	Water Based Mud	9.2	40	9.3	N/A	1.3/92.8	Active Pits	3100	N/A
18 Mar 15 0700	3	15282.0	Water Based Mud	9.3	43	9.3	N/A	2.0/91.5	Active Pits	5100	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	11700519	Directional	46.41	6.750	3.250
1	SRIG	11732967	Gamma	43.03	6.750	3.250
2	DIR	12497612	Directional	52.83	4.750	2.688
2	SRIG	12600751	Gamma	49.46	4.750	2.688
3	DIR	11954358	Directional	52.86	4.750	2.688
3	SRIG	11734844	Gamma	49.48	4.750	2.688

Service and Tool Mnemonics

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

Comments

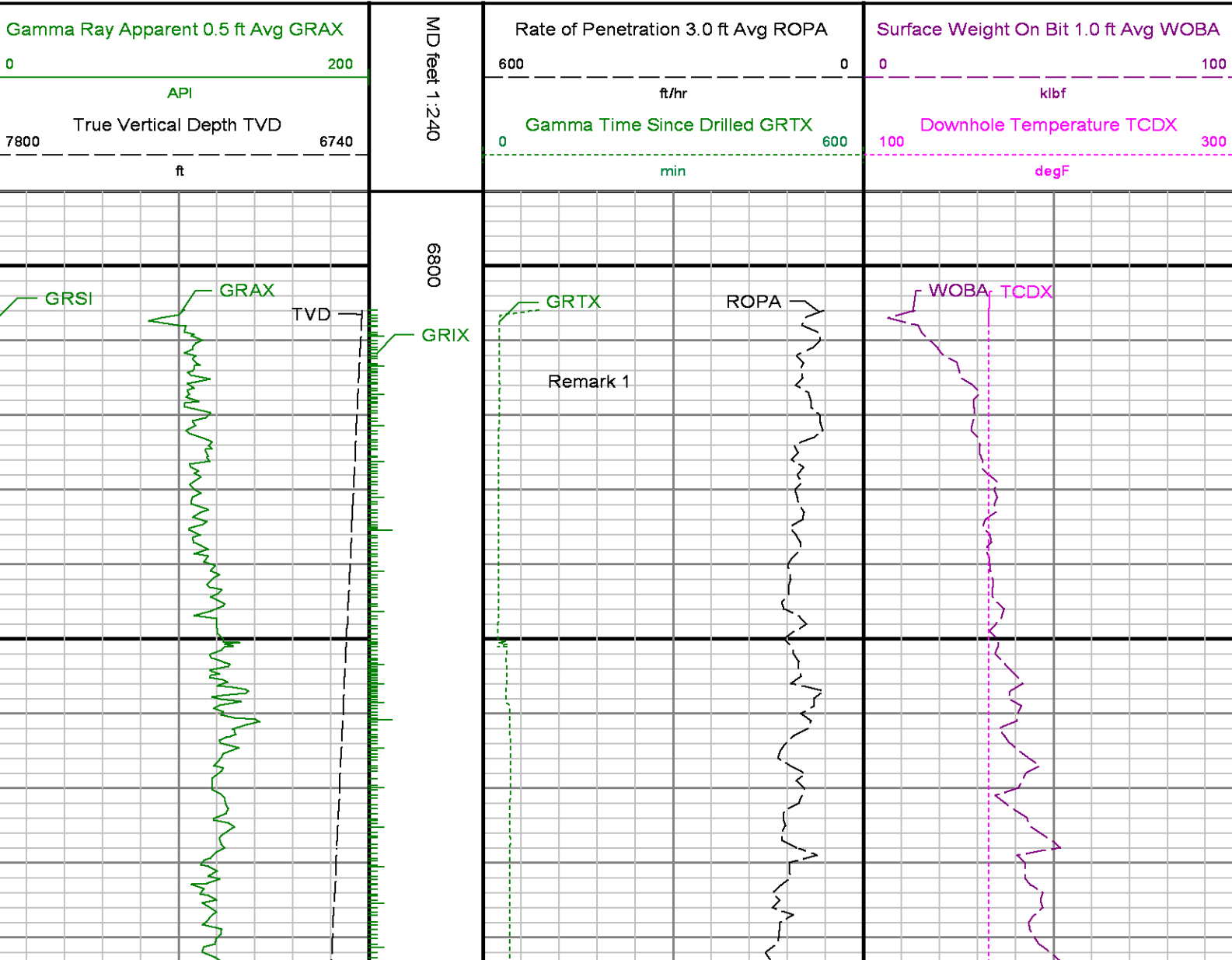
<p>1.) Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to represent logging data.</p> <p>2.) Baker Hughes Run 1 utilized a 6 3/4 inch NaviGamma (Directional and Gamma Ray) tool behind an 8 3/4 inch bit and steerable assembly from 1130 to 7737 feet MD (1129.97 to 7368.89 feet TVD).</p> <p>3.) Baker Hughes Runs 2 and 3 utilized a 4 3/4 inch NaviGamma (Directional and Gamma Ray) tool behind a 6 1/8 inch bit and steerable assembly from 7737 to xxx feet MD (7368.89 to xxx feet TVD).</p> <p>4.) 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.</p>
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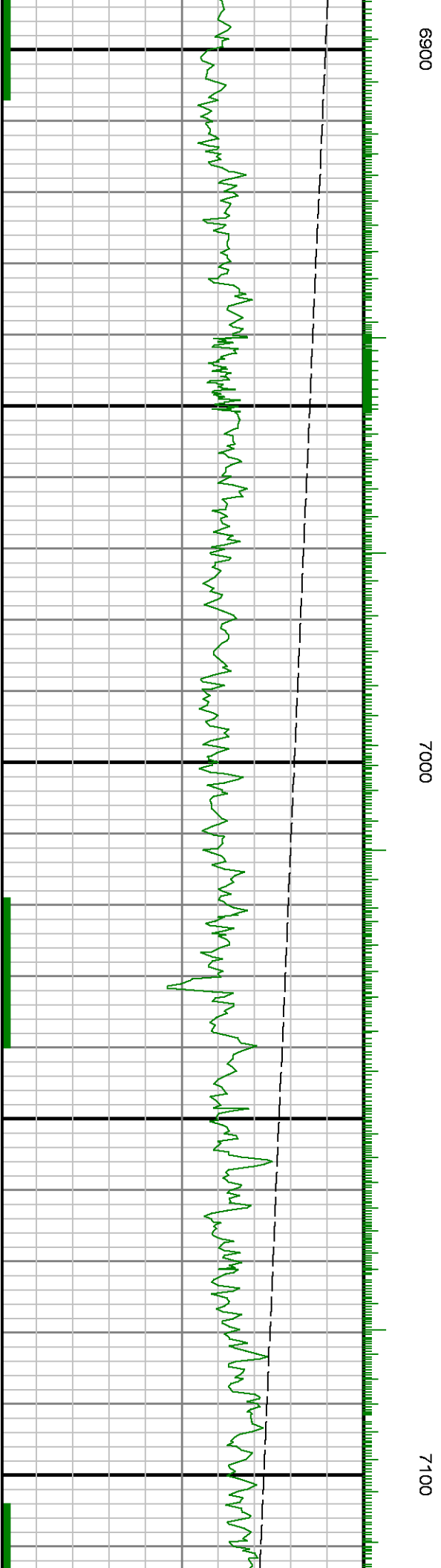
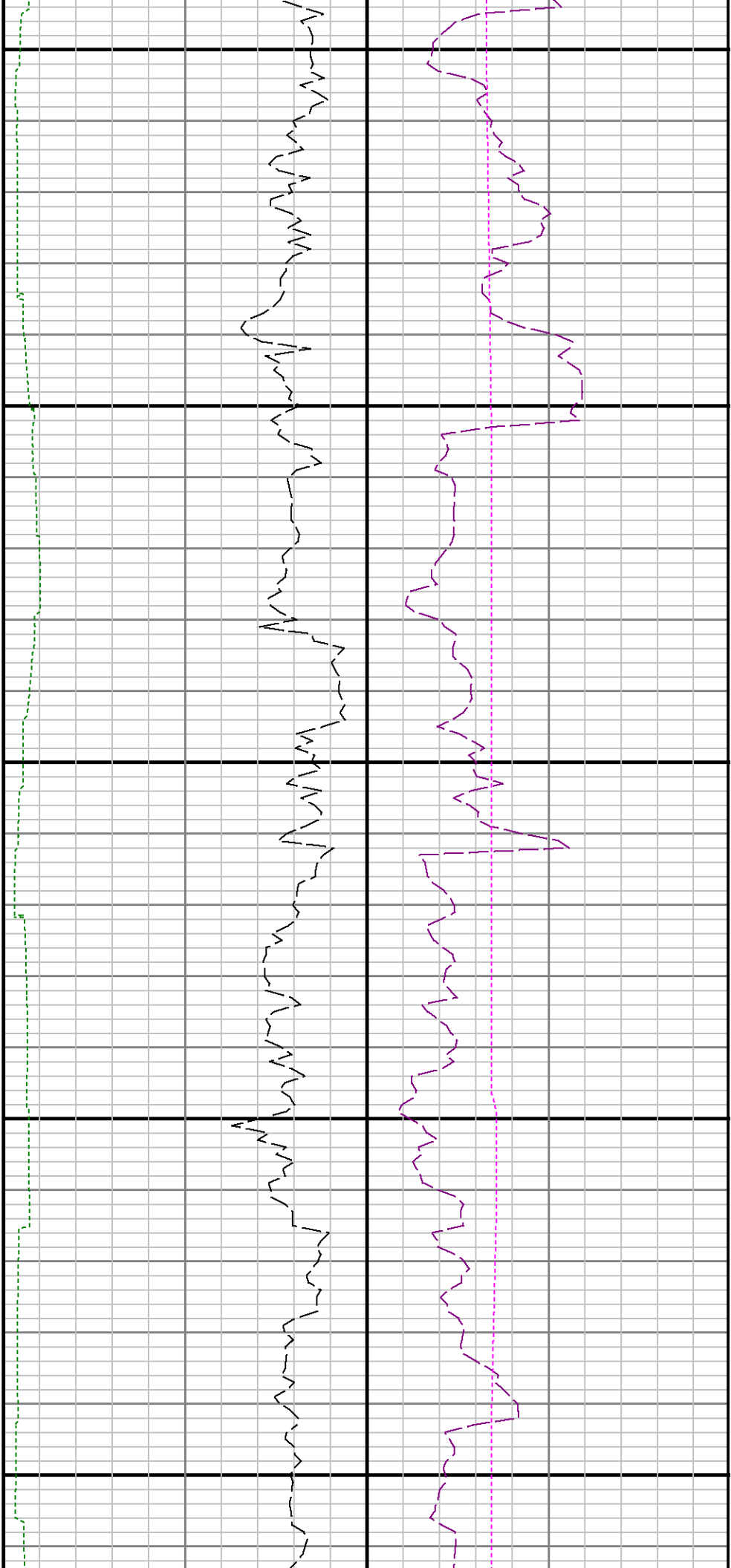
Remarks

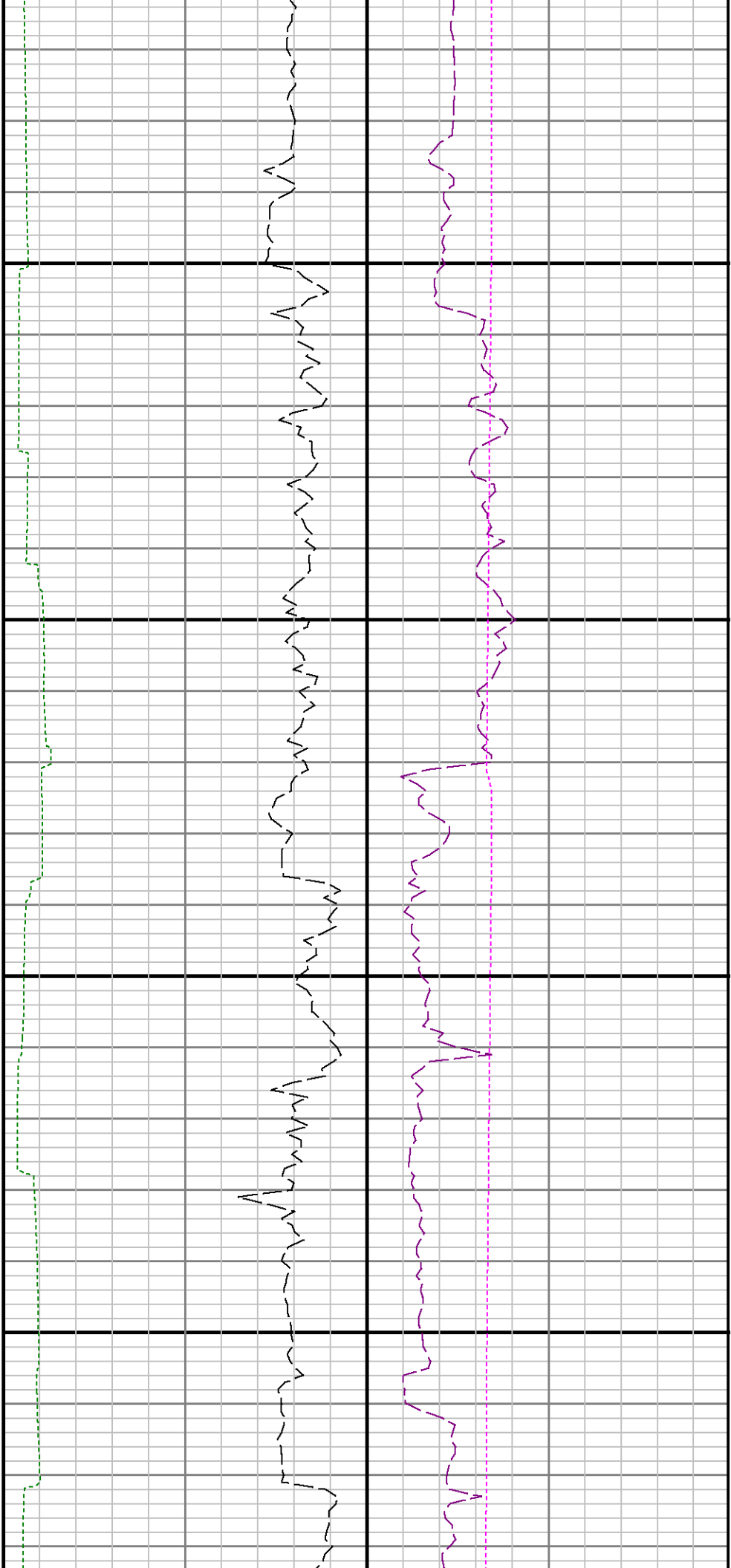
Number	Measured Depth (ft.)	Hole Section (in.)	LWD Run No.	Remark
1	6750	8.750	1	Logging services began at 6750. No logging data prior to 6750 feet MD.(6703.21 feet TVD) as per client request.
2	7696	8.750	1	The interval from 7696 to 7783 feet MD(7367.64 to 7368.42 feet TVD) was logged up to 36 hours after being drilled due to casing operations
3	13093	6.125	2	The interval from 13093 to 13226 feet MD(7401.86 to 7402.92 feet TVD) was logged up to 24 hours after trip out of hole due to MWD failure
4	17200	6.125	3	The interval from 17200 to 17250 feet MD (7425.95 to 7427.83 feet TVD) was not logged due to gamma sensor offset to bit at TD



Company : Anadarko  
Well : BARCLAY 15N-26HZ  
Interval : 6790.00 - 17260.00 feet  
Created : 18/Mar/2015 11:01:53 PM

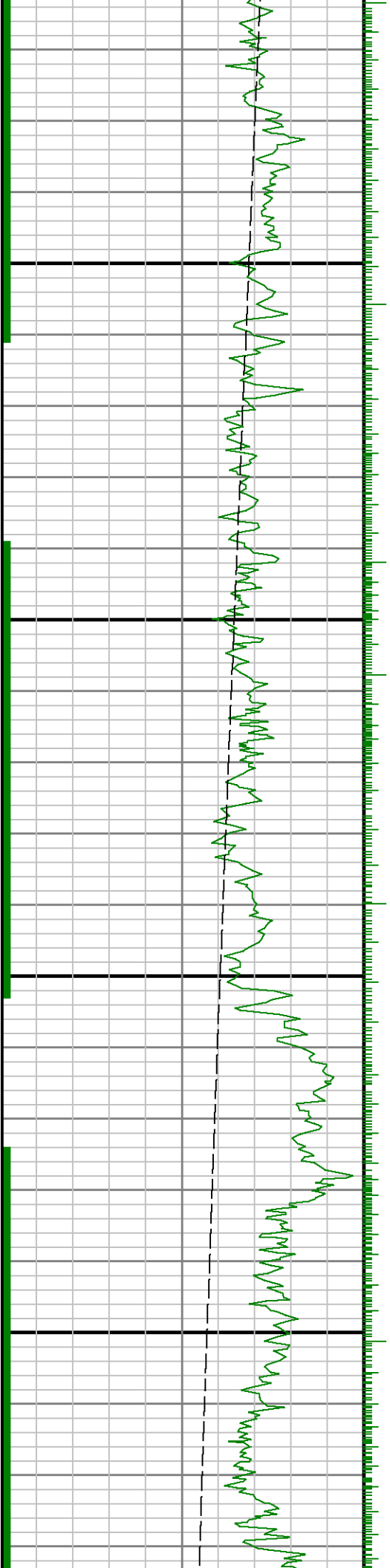


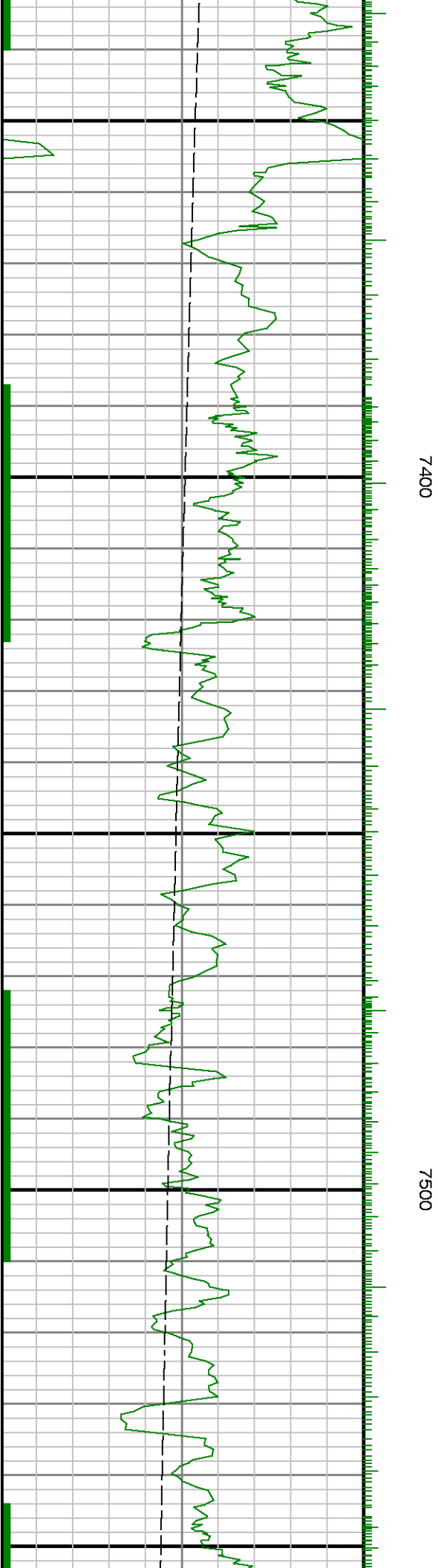
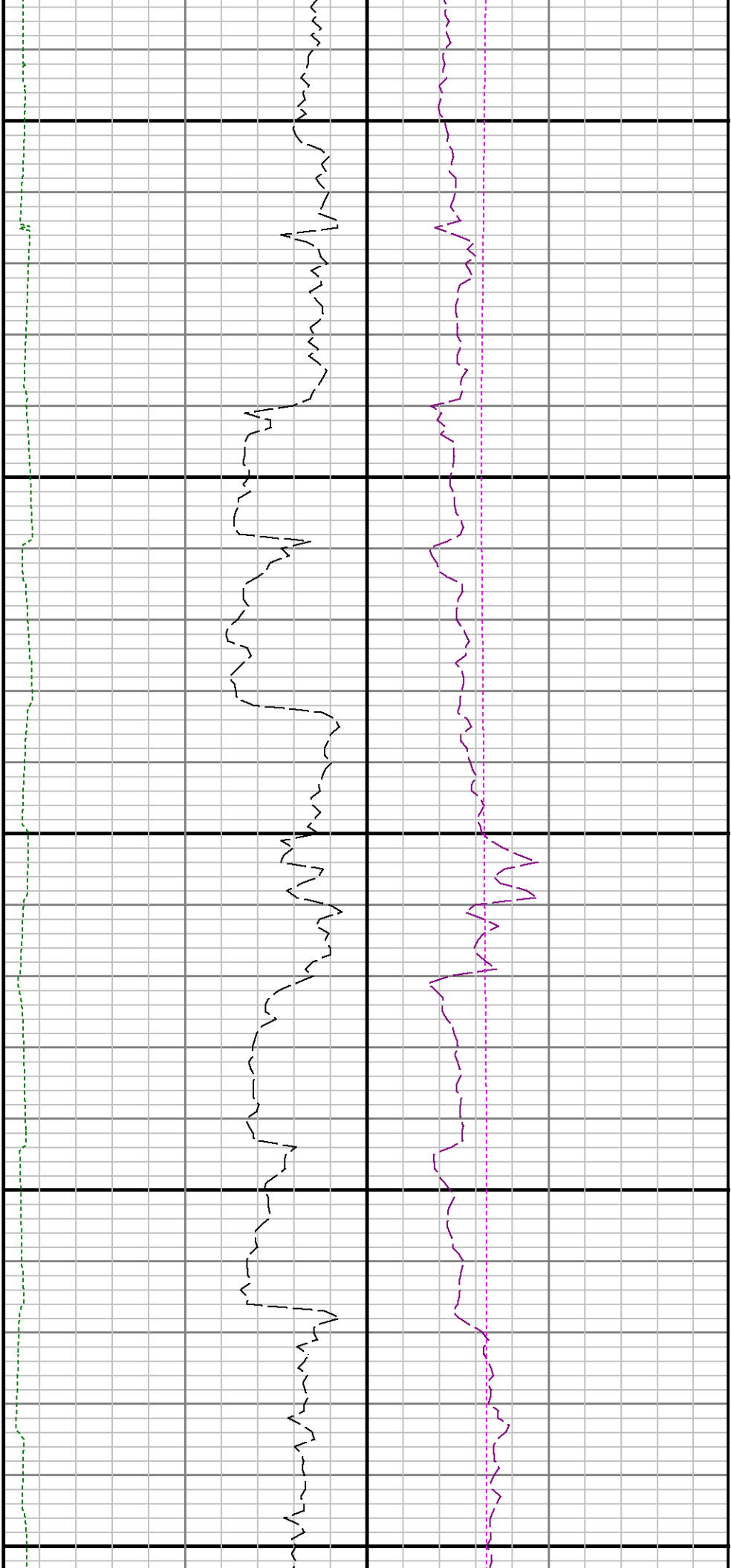


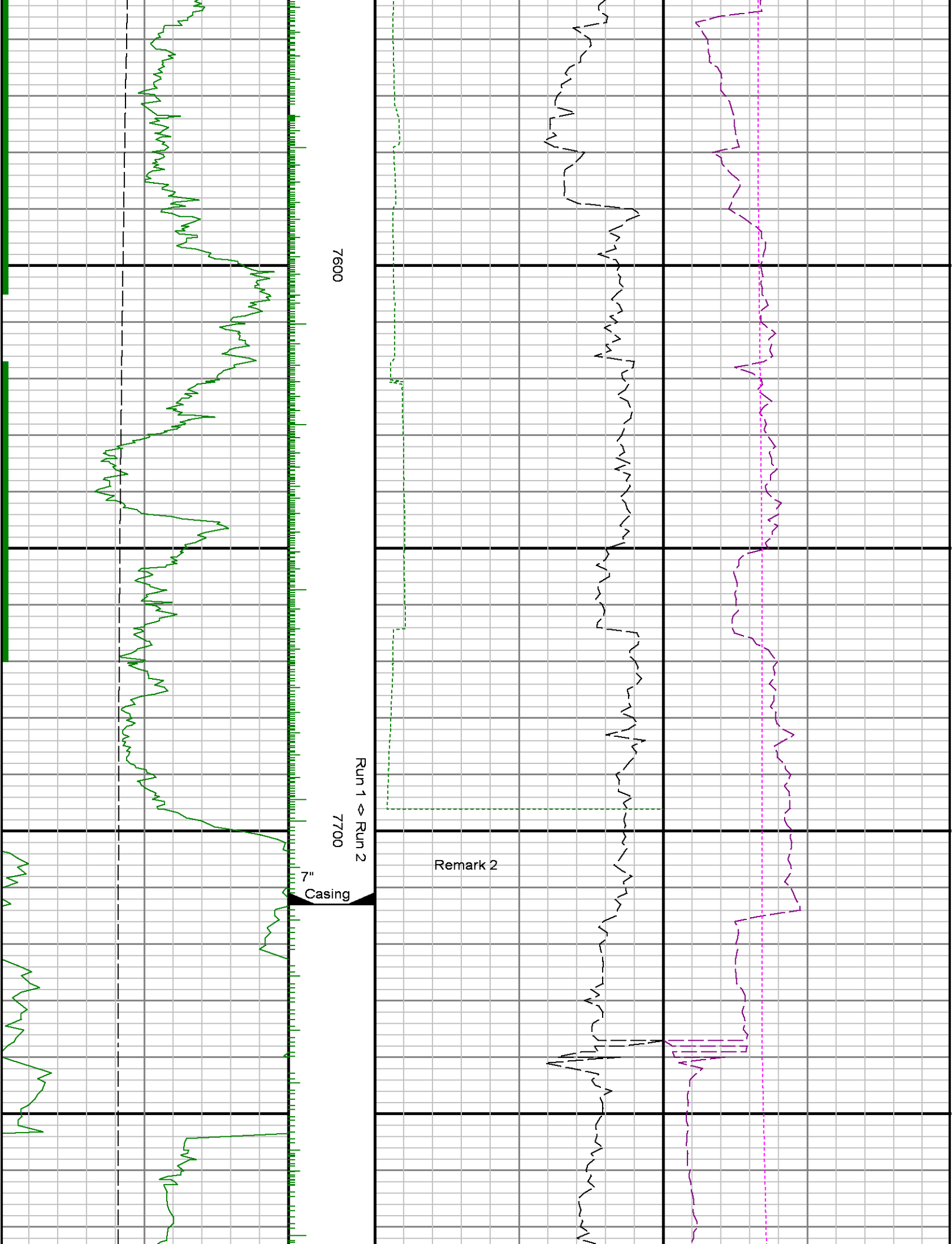


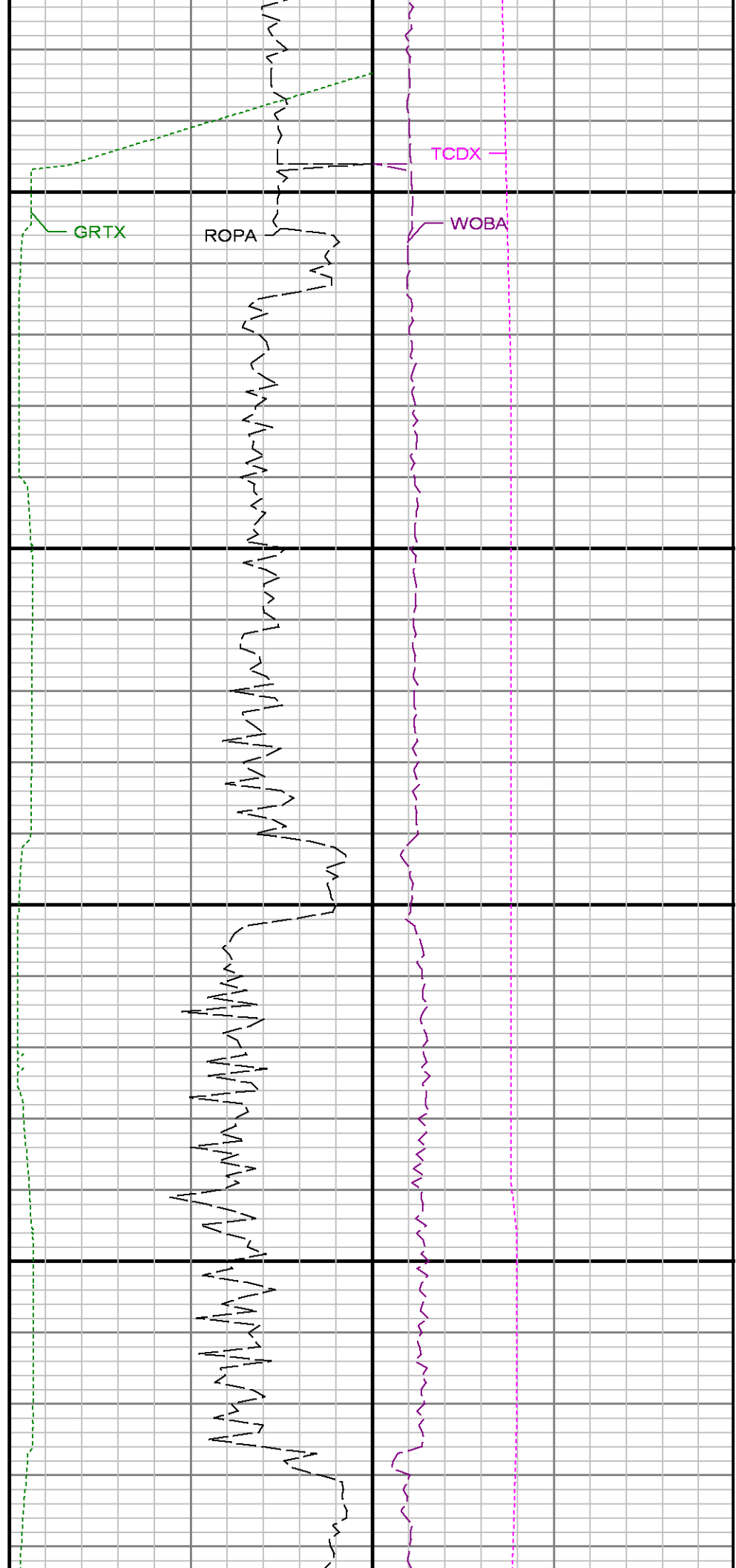
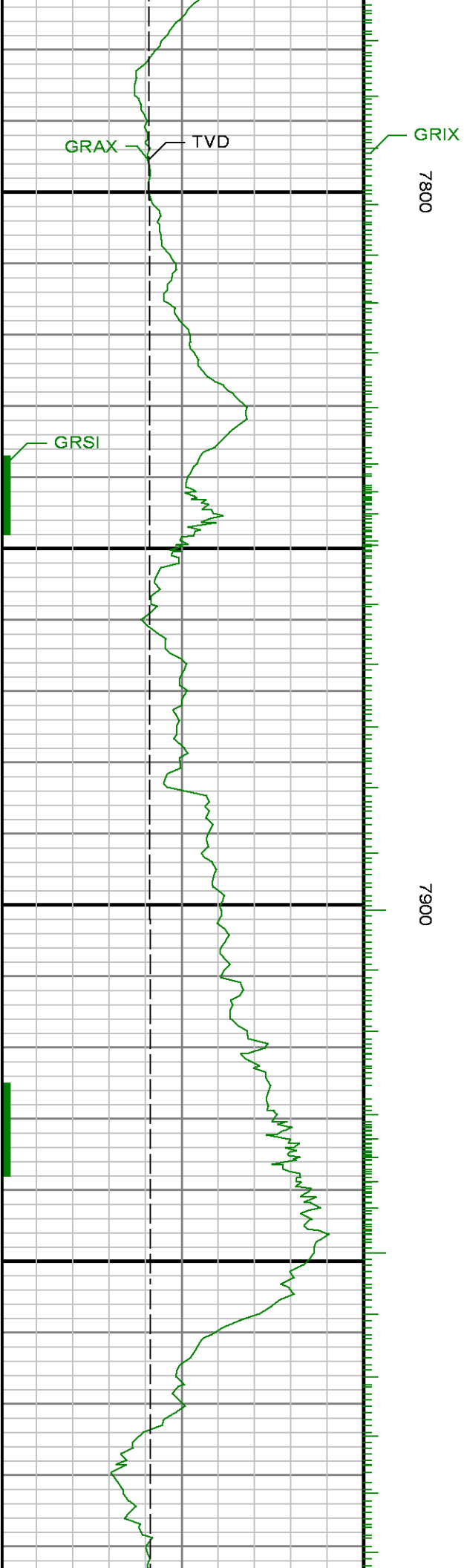
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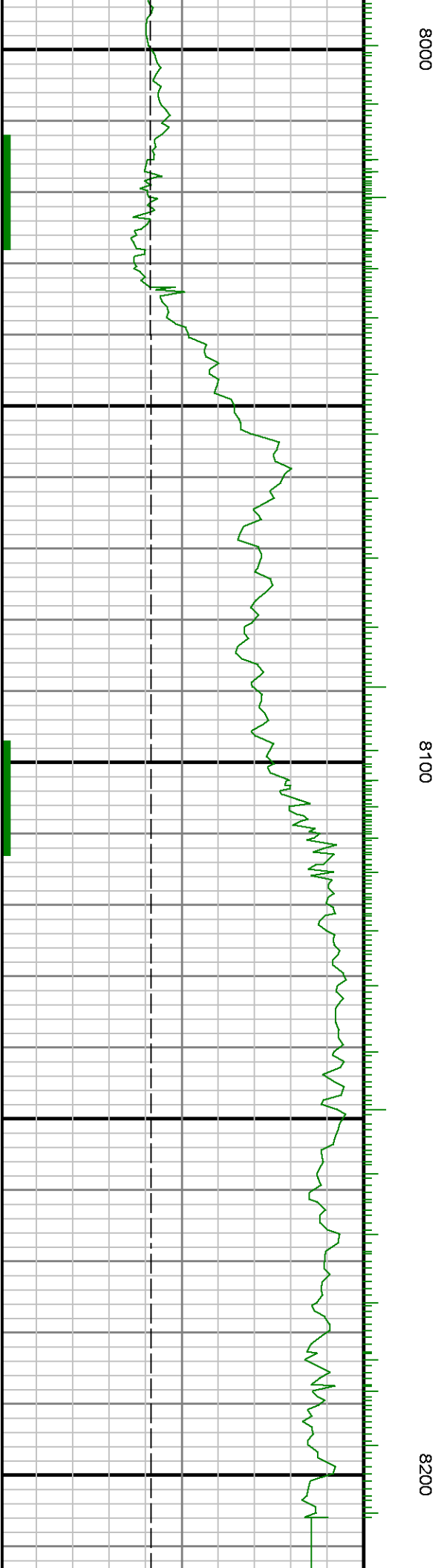
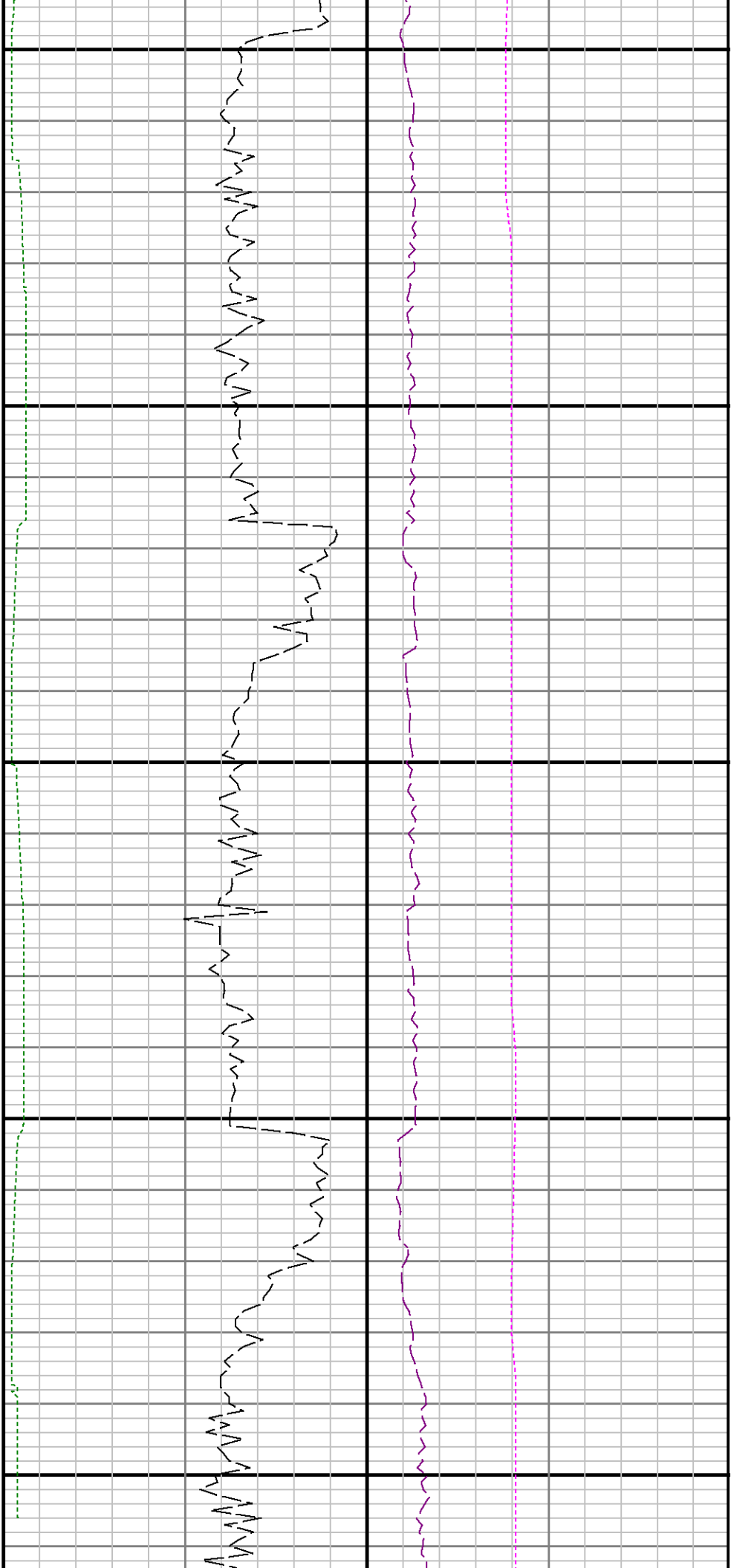
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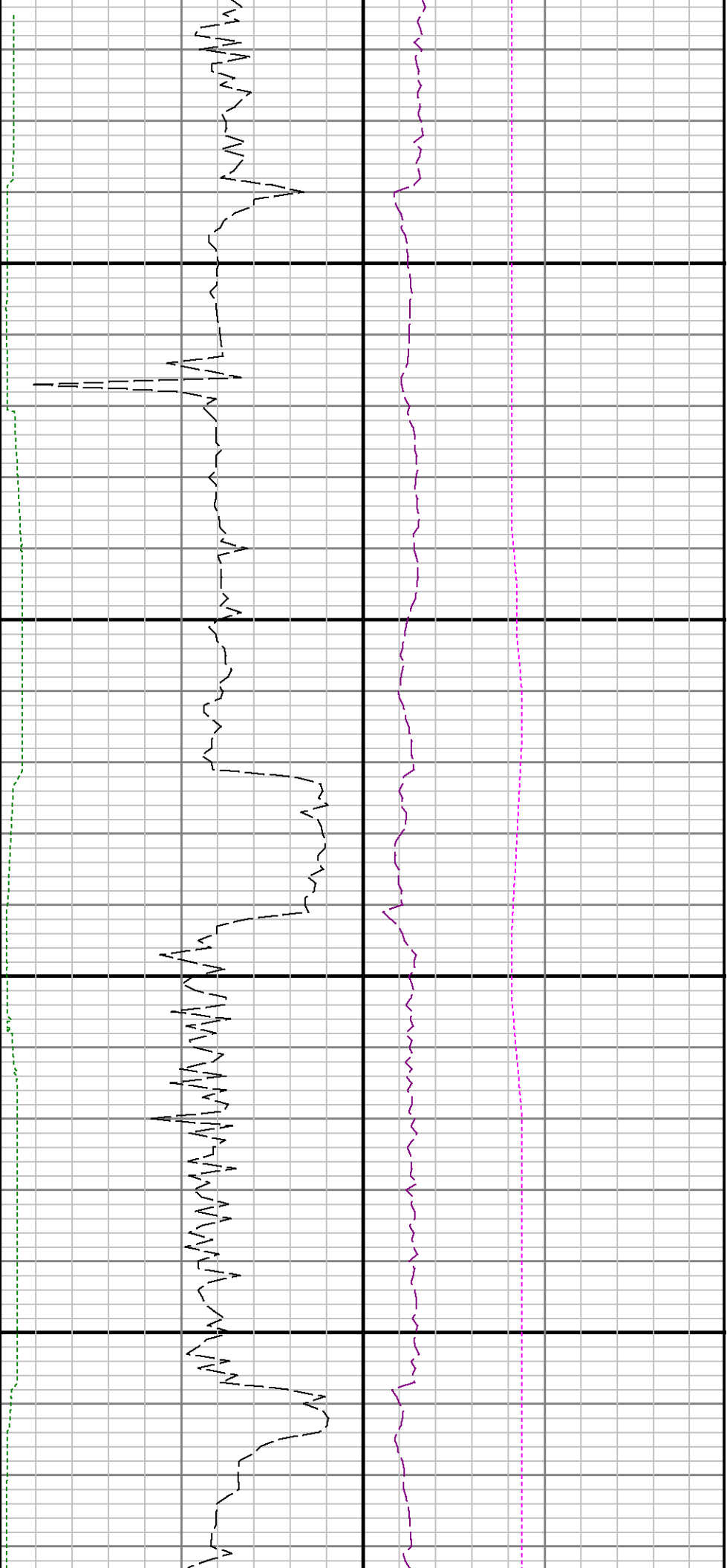






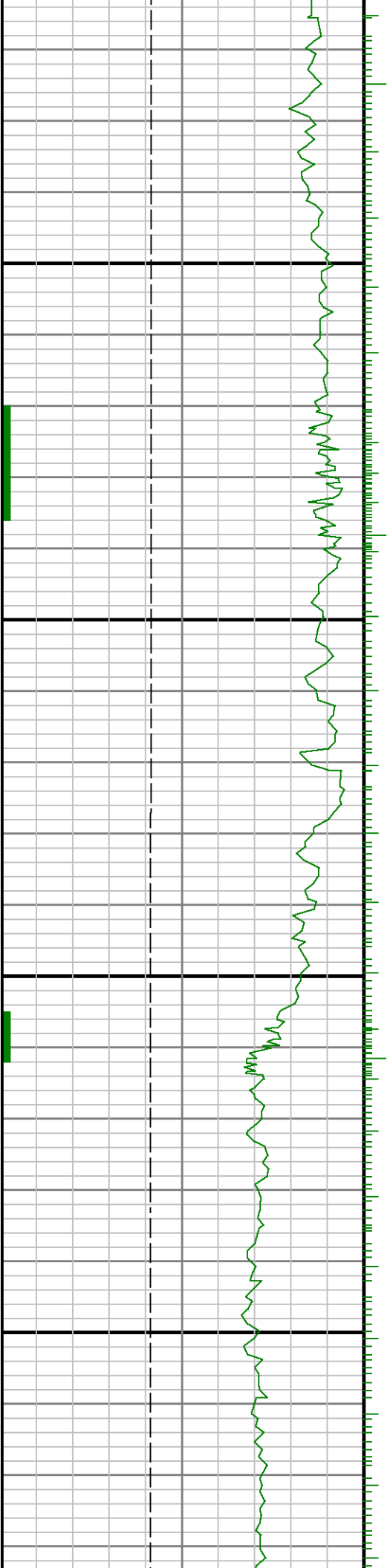


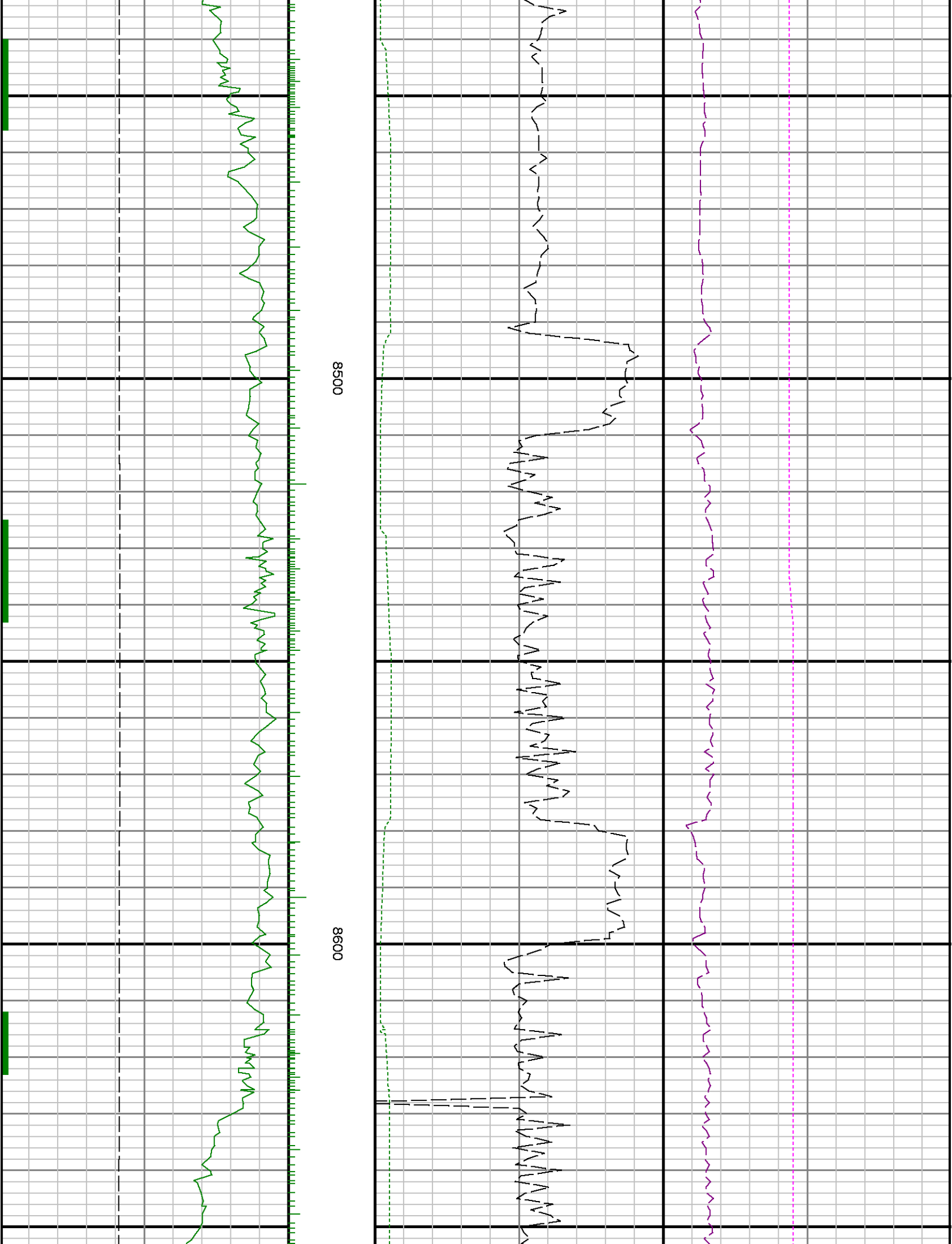


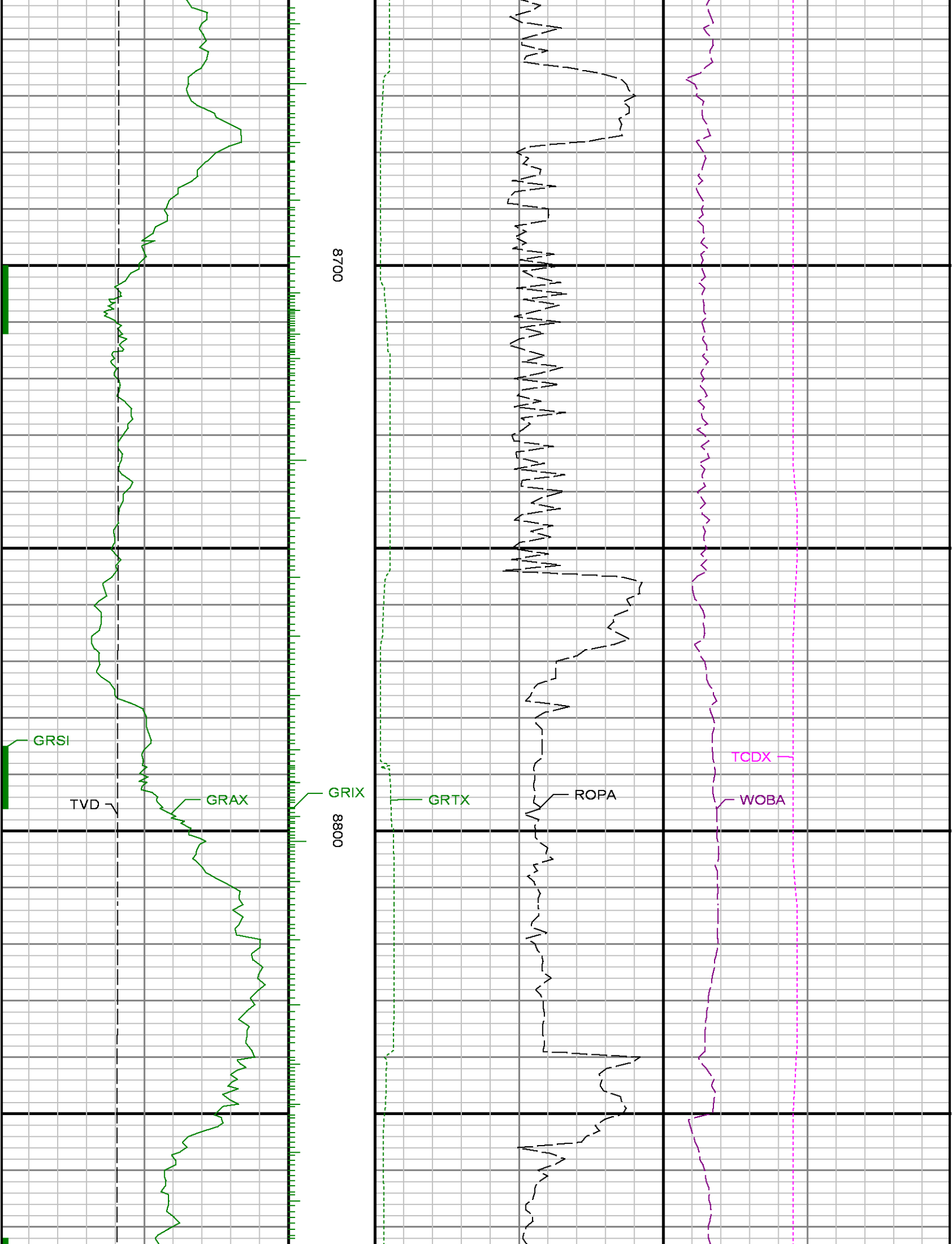


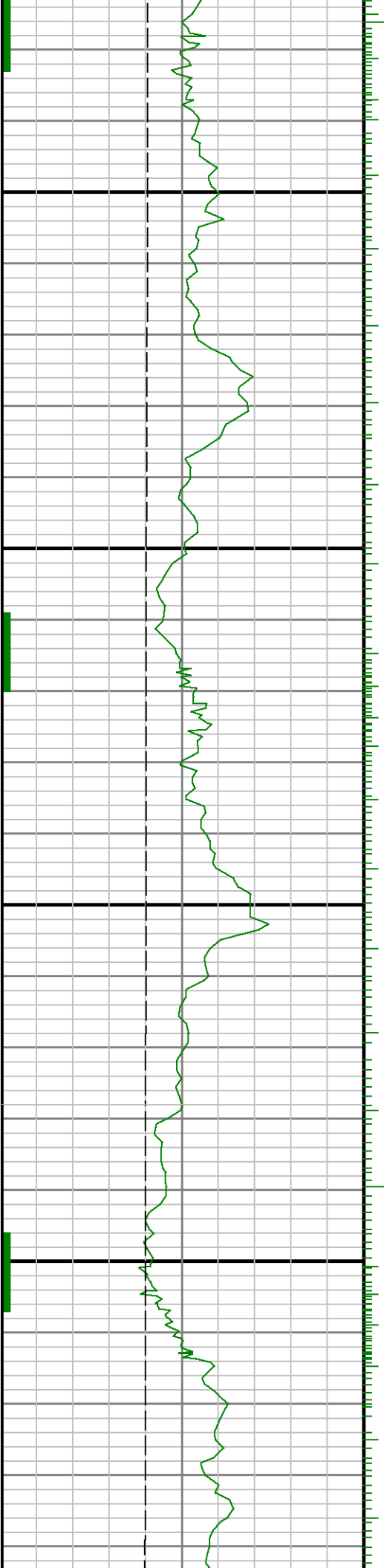
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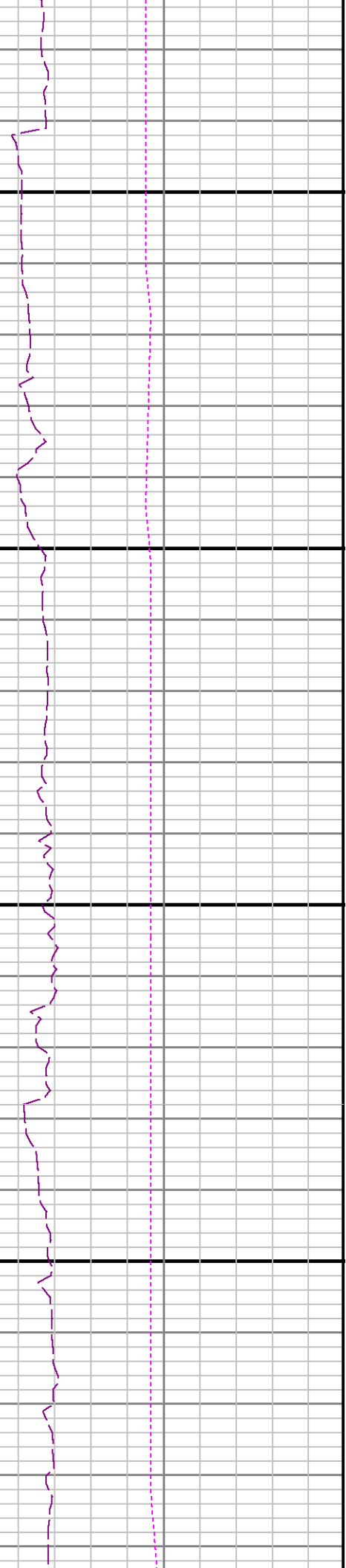
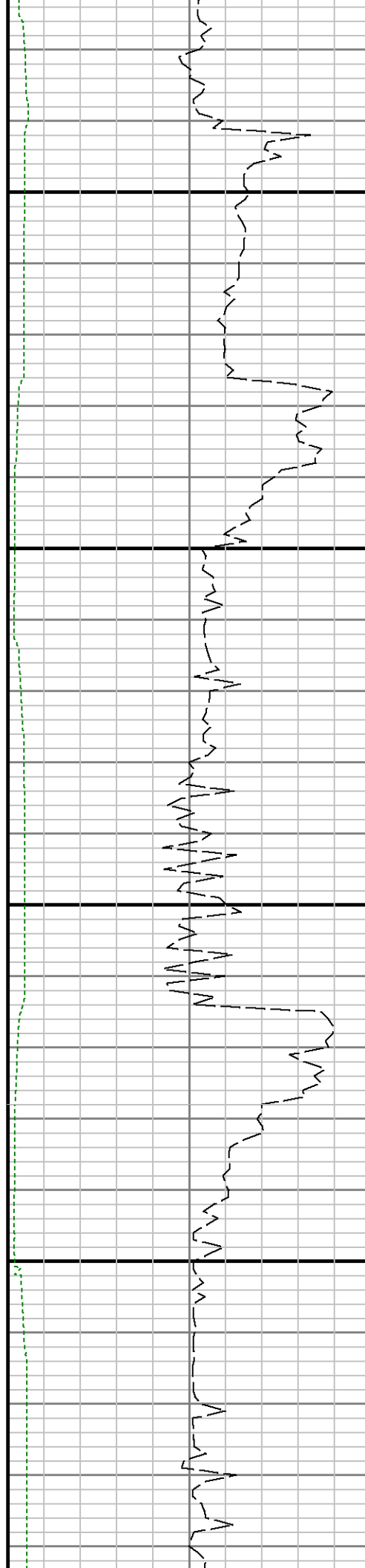


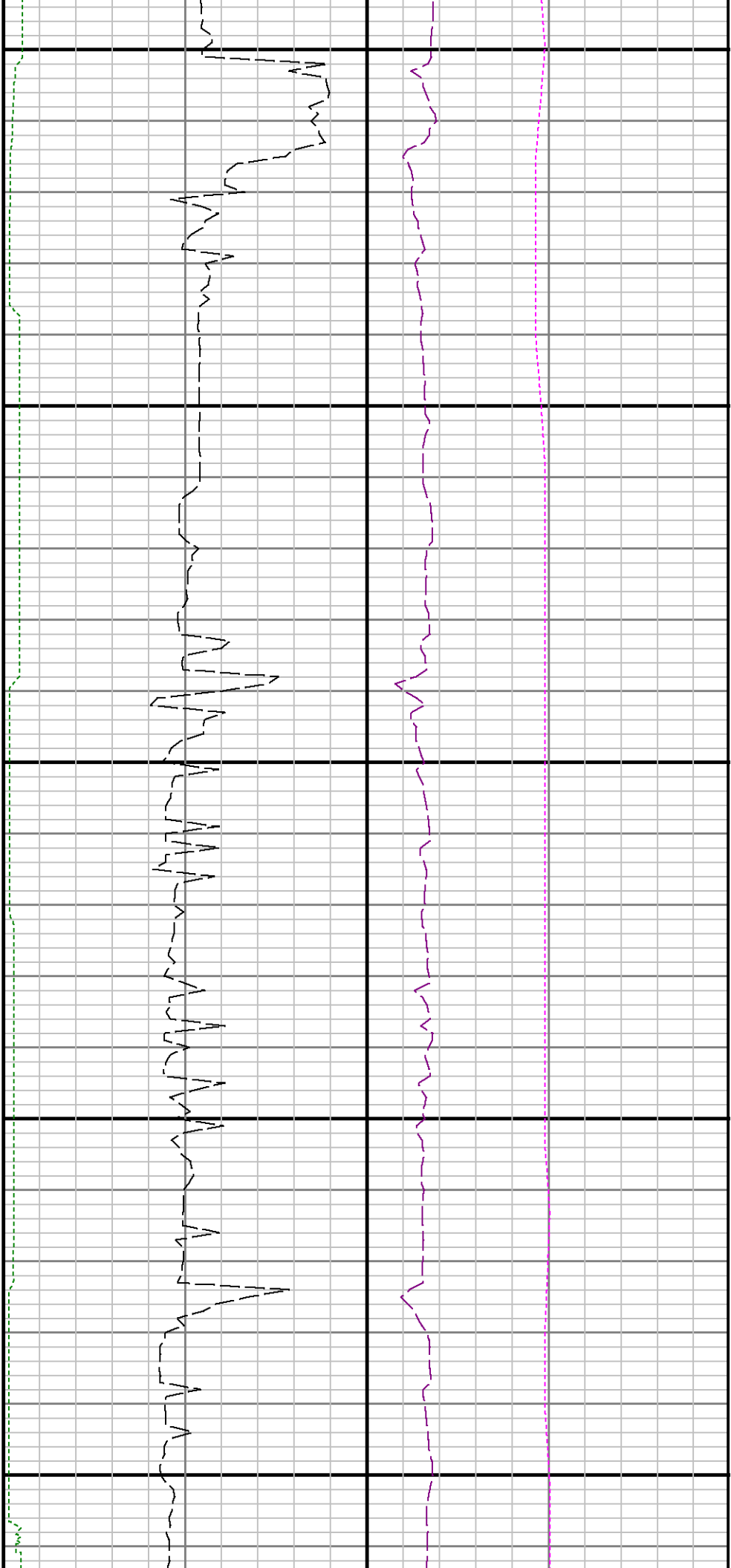




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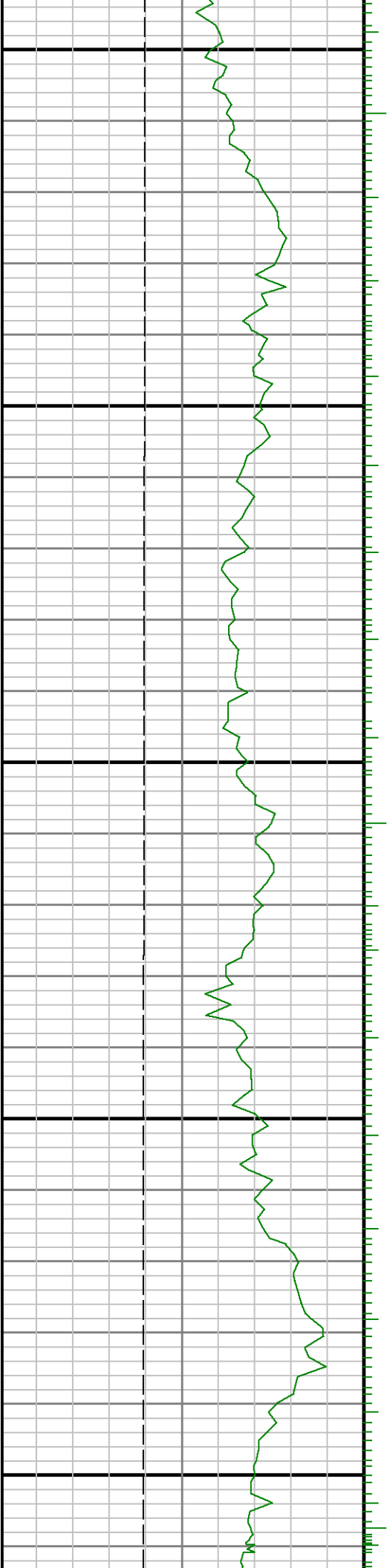


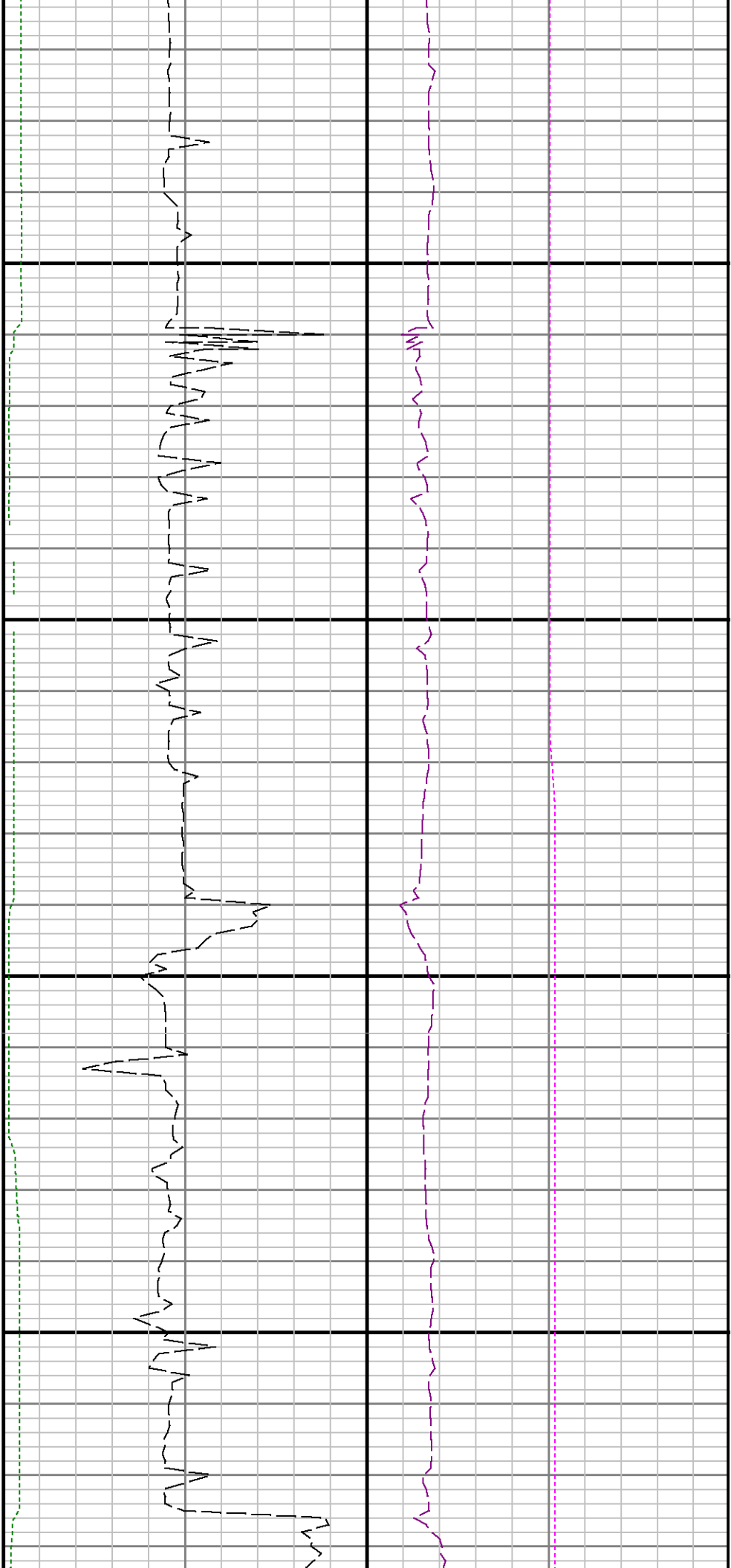


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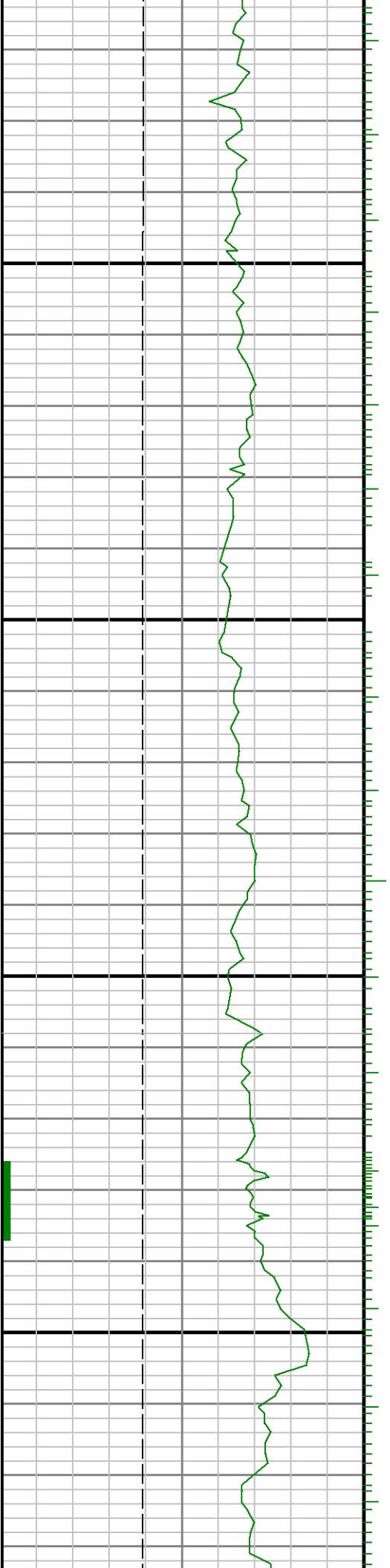
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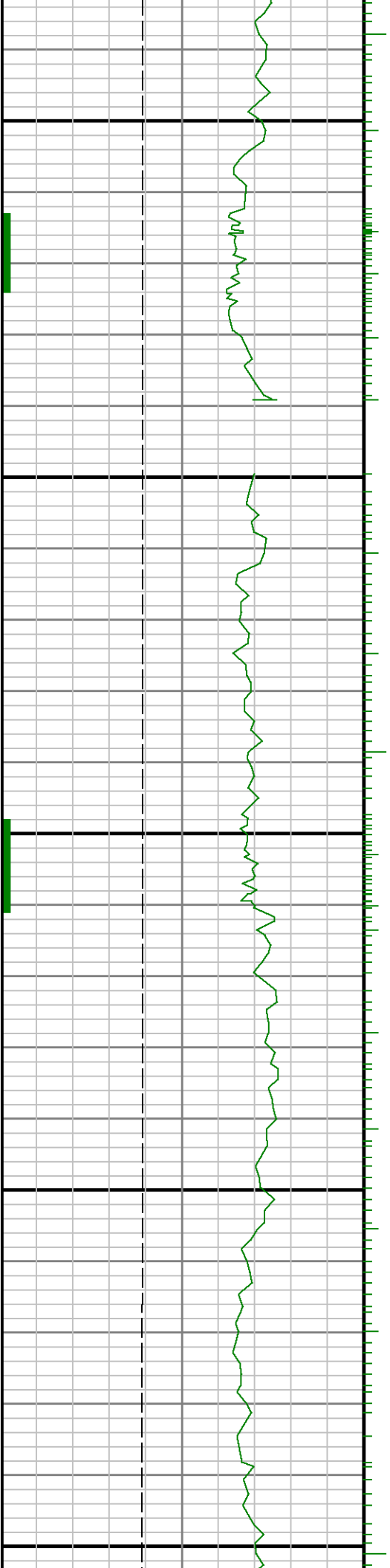




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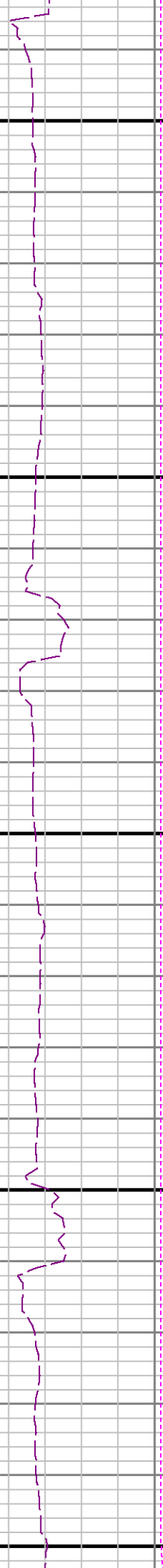
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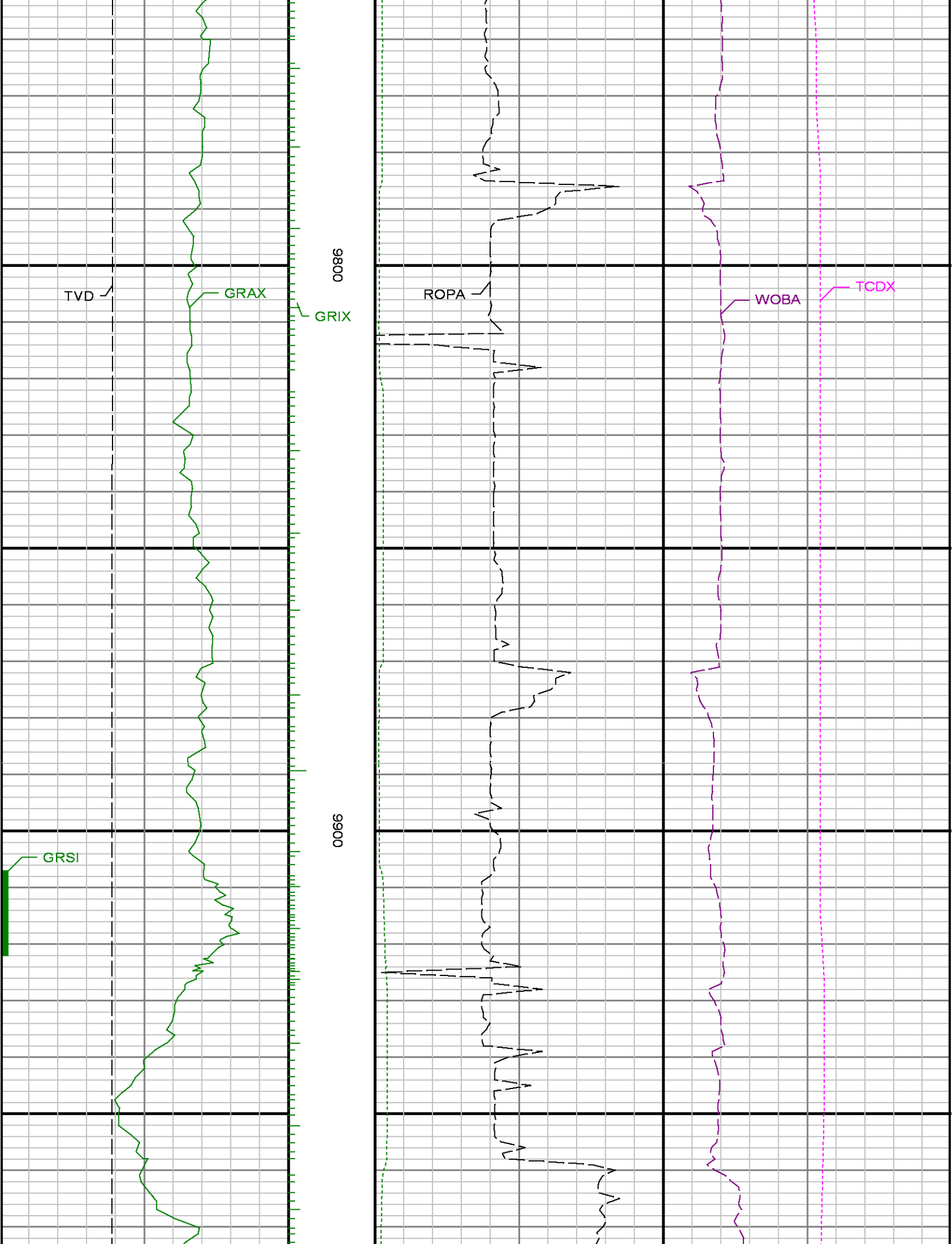


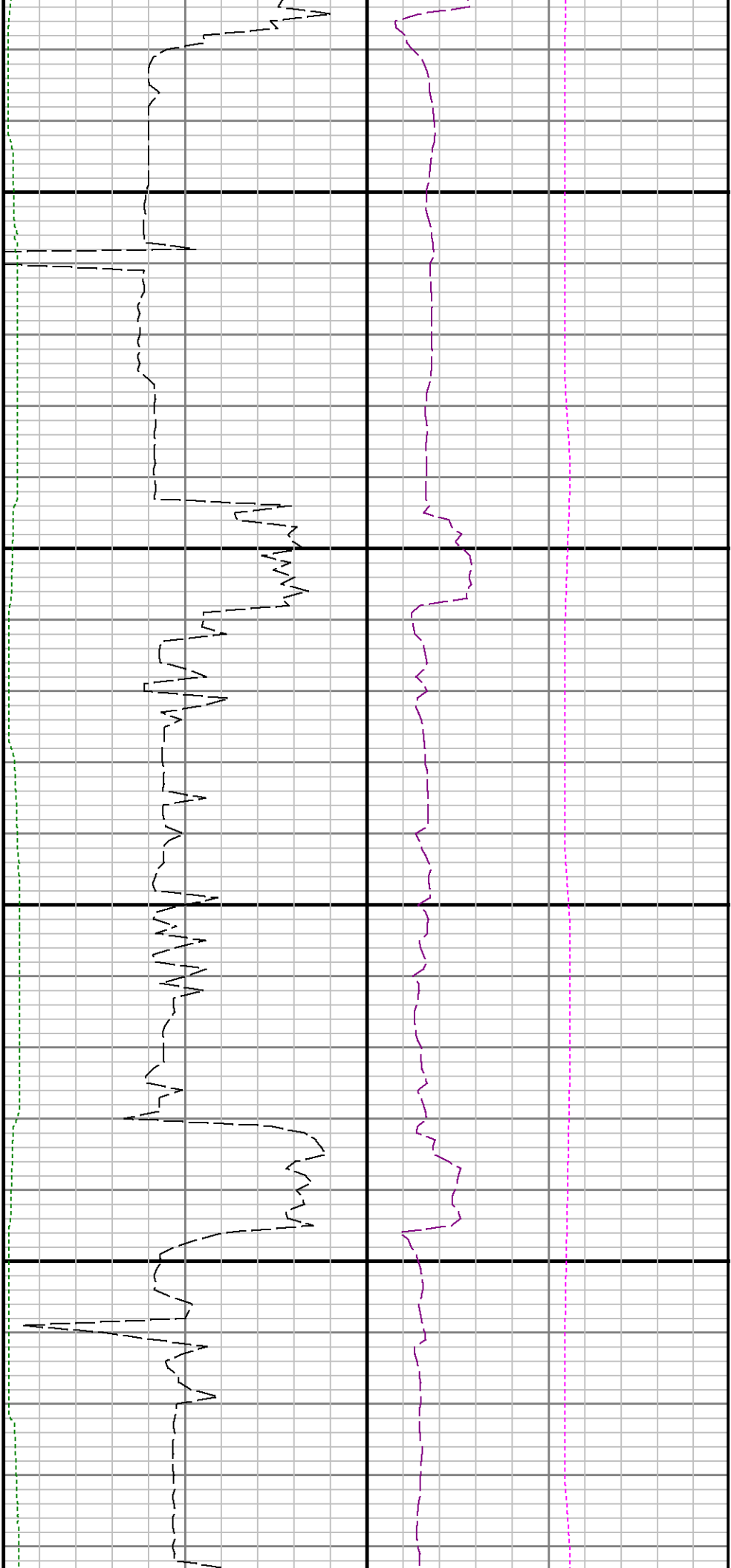


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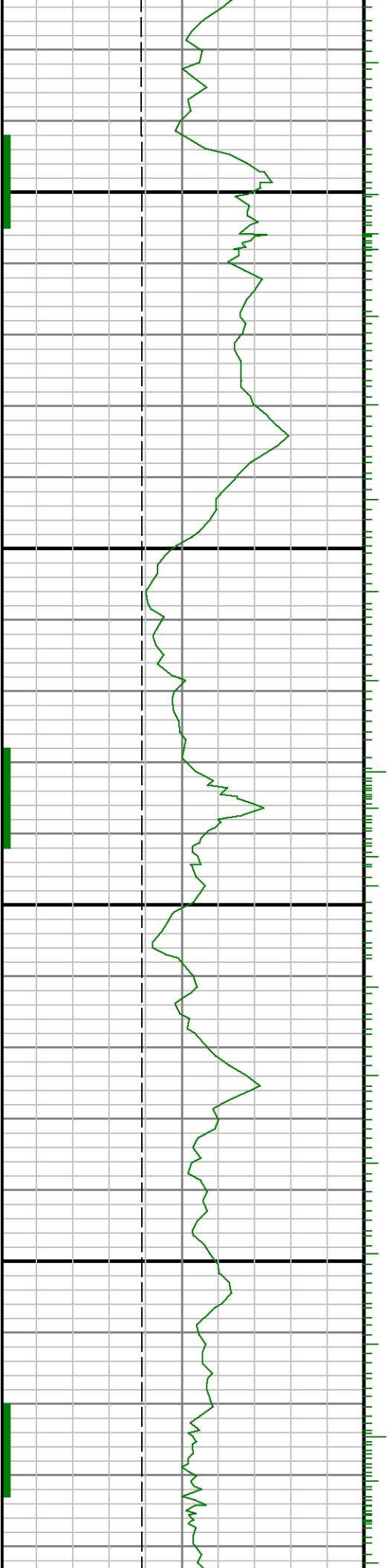


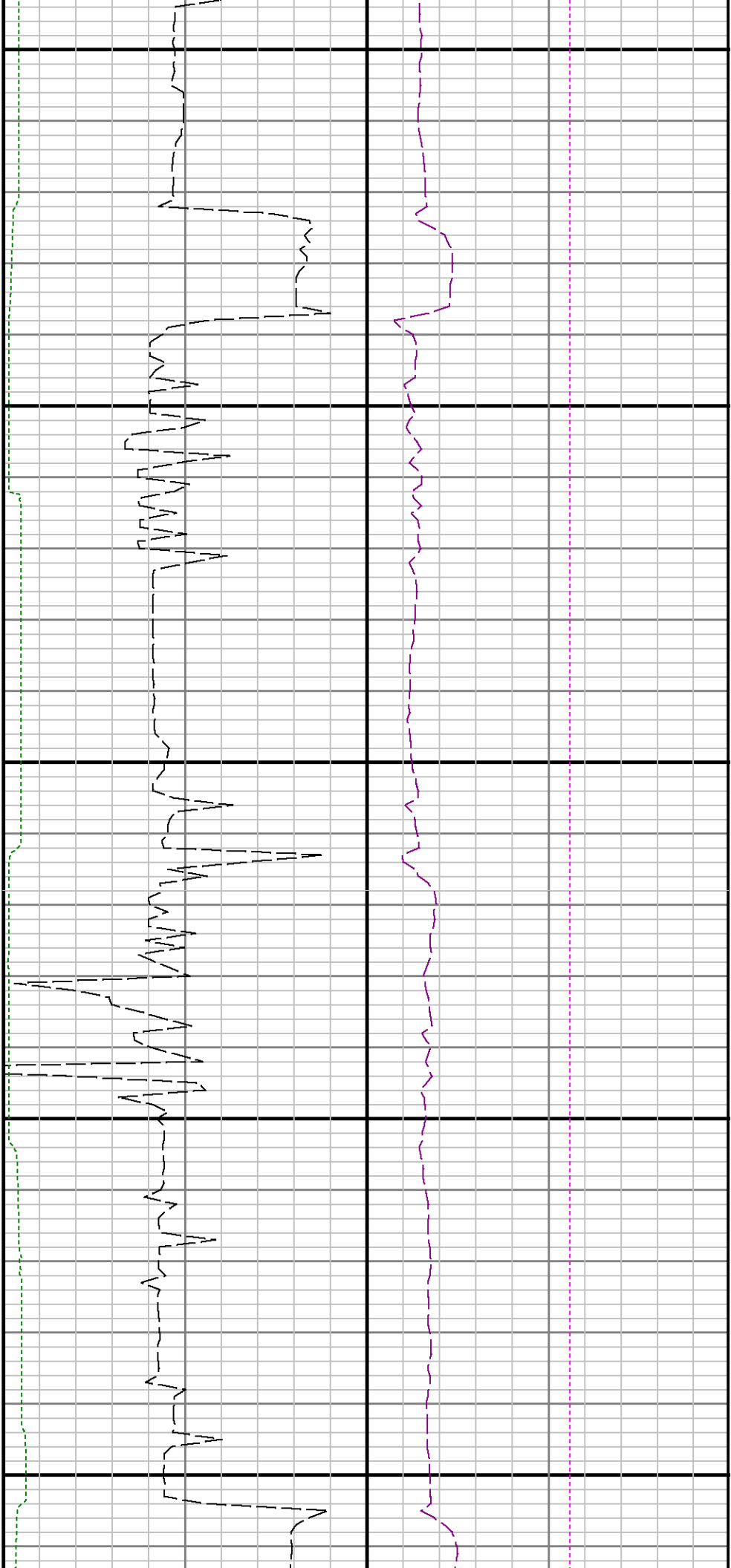




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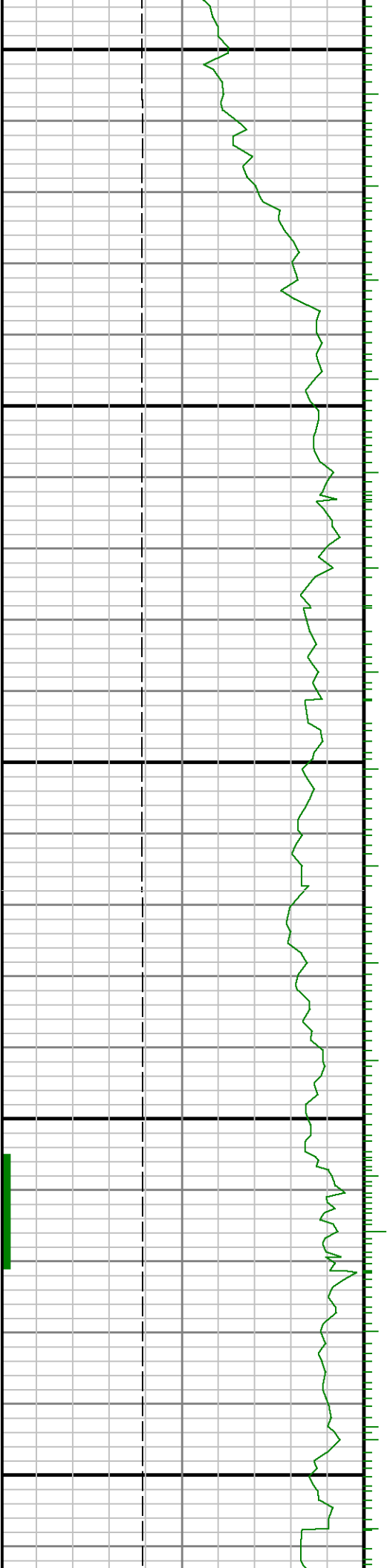


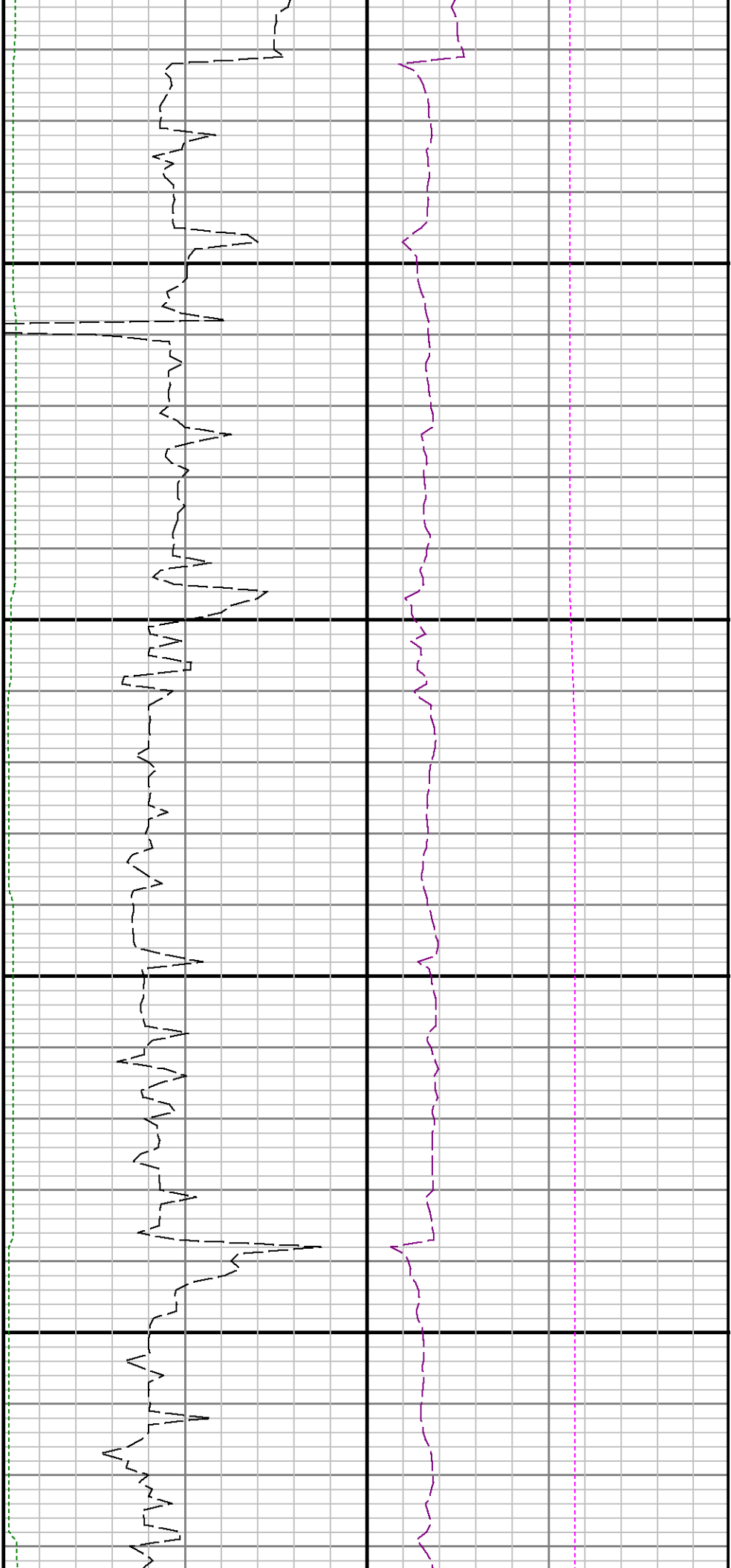


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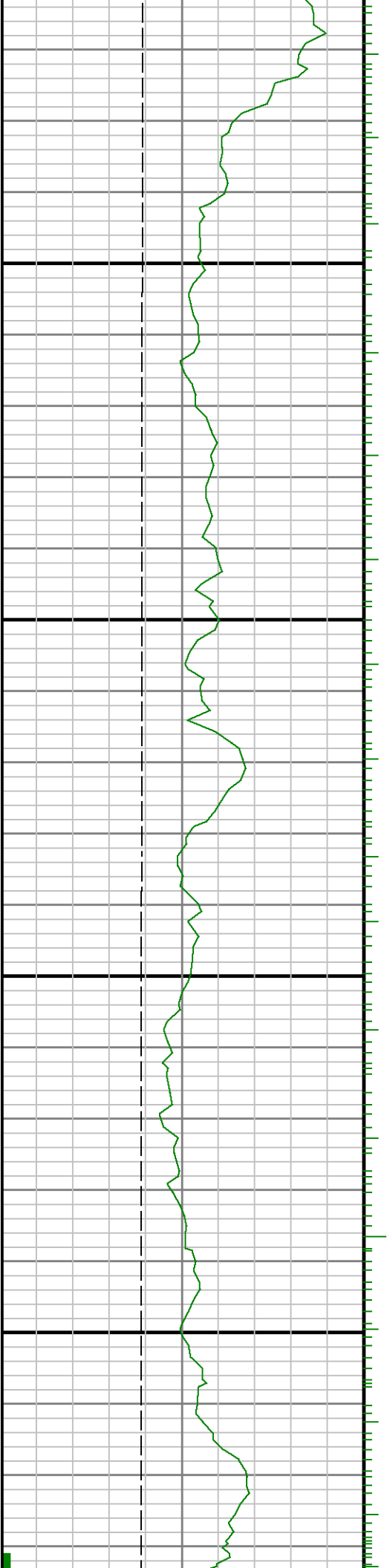
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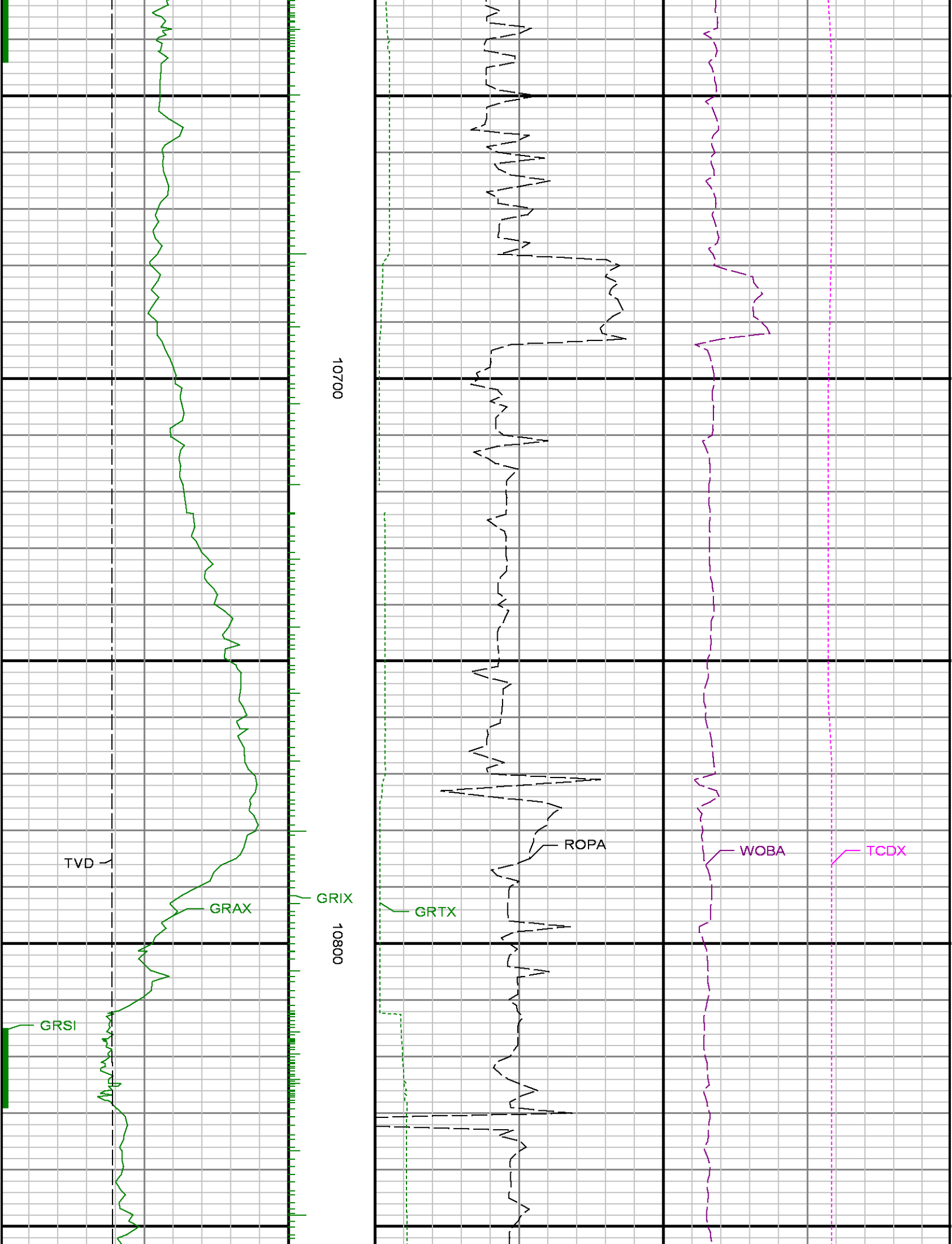


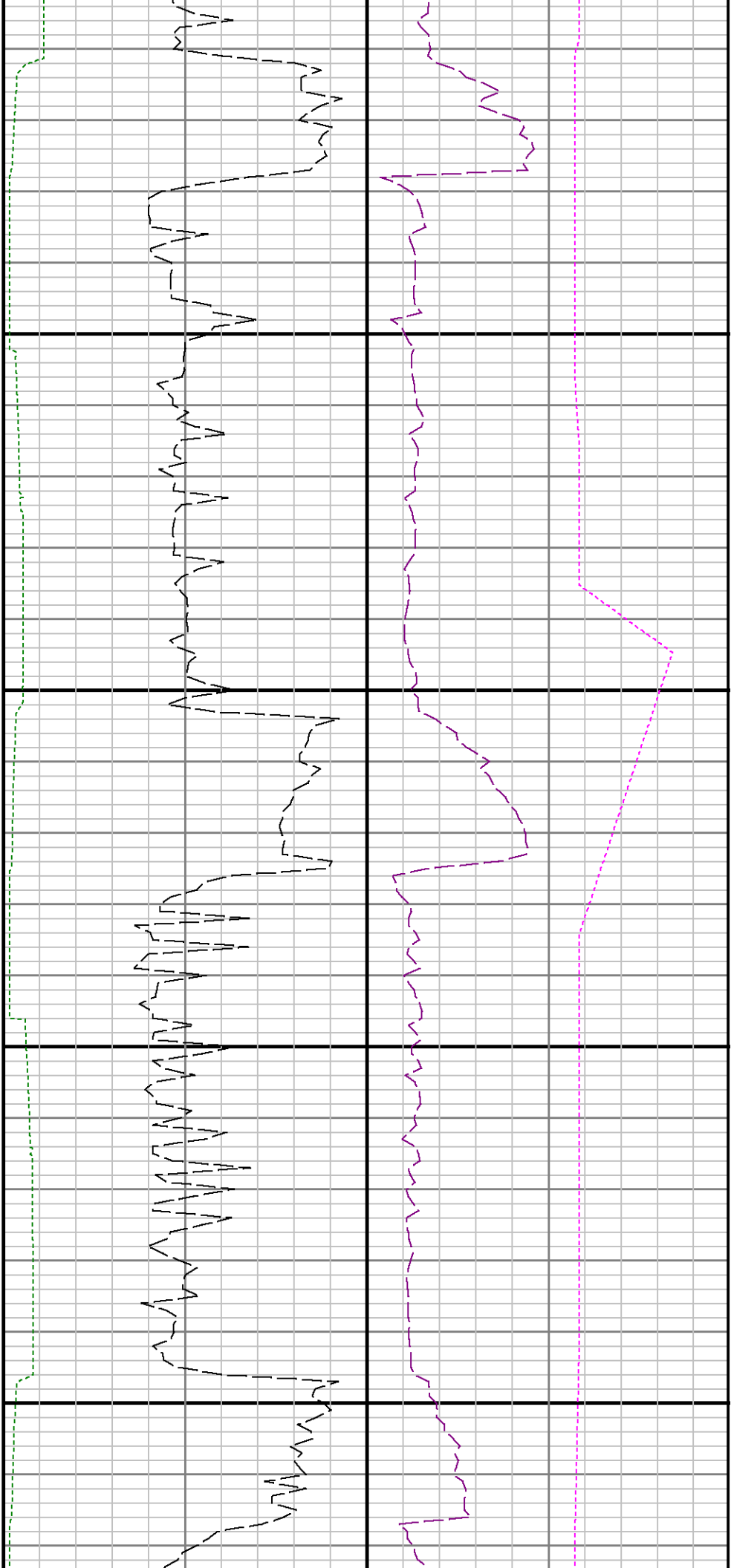


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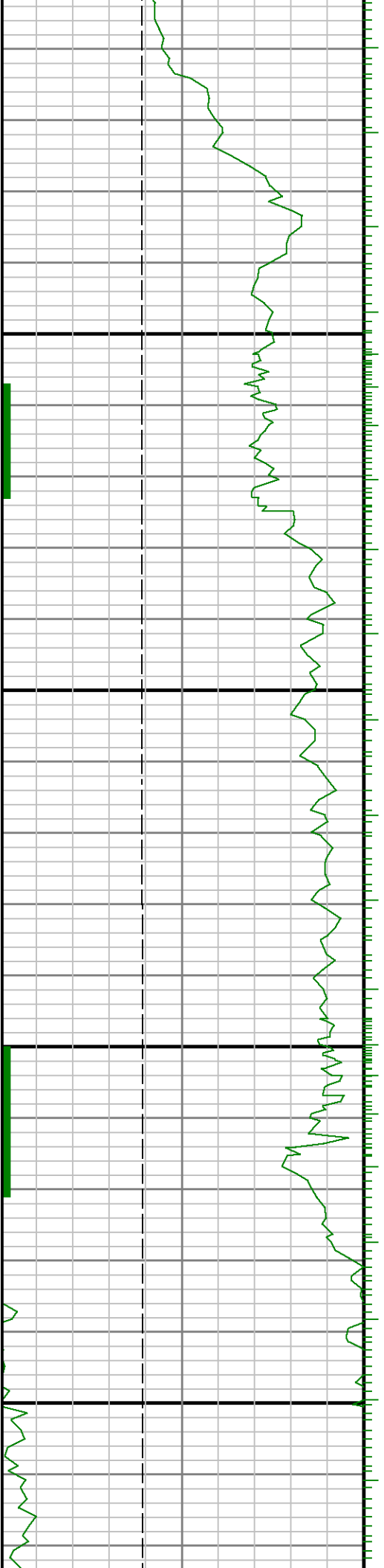


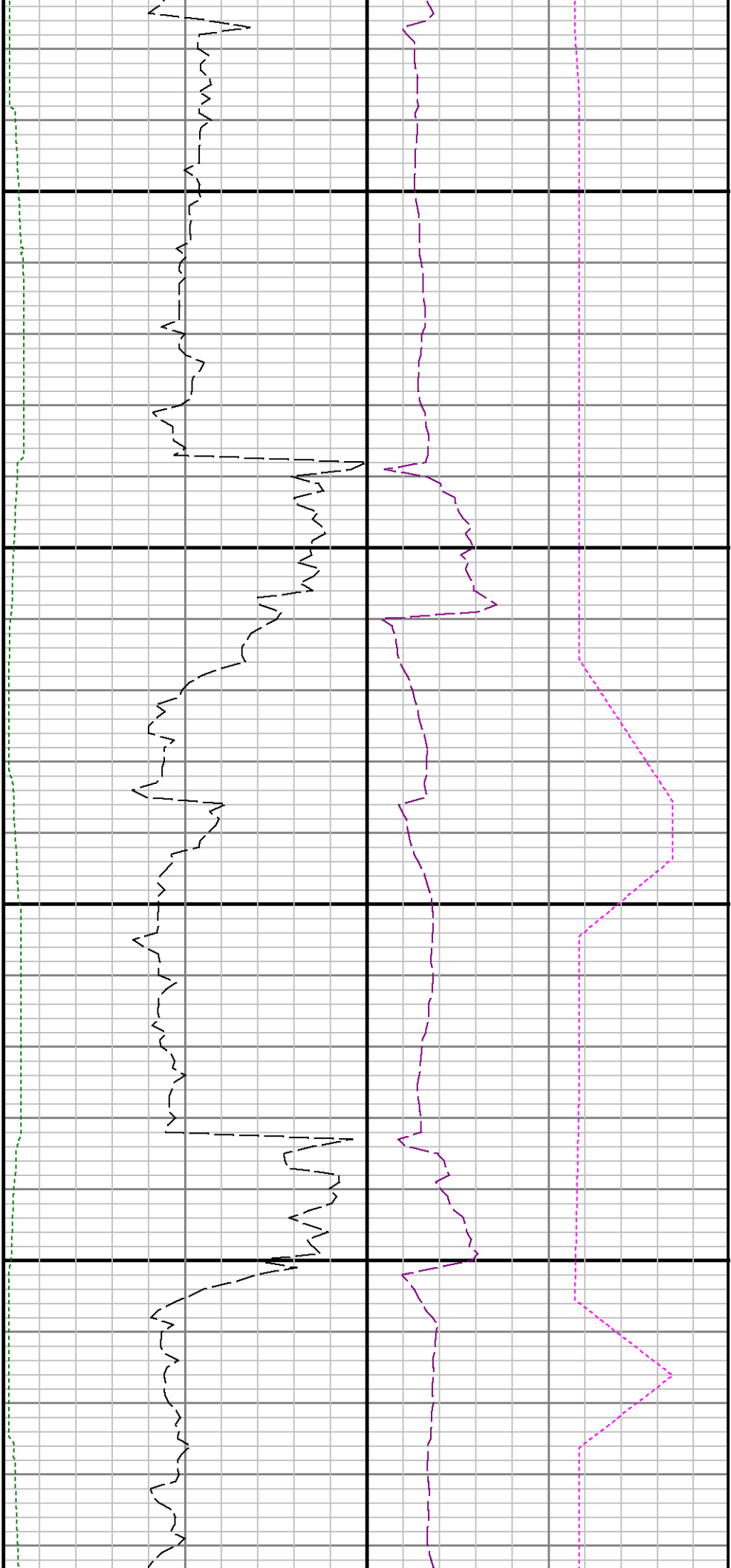




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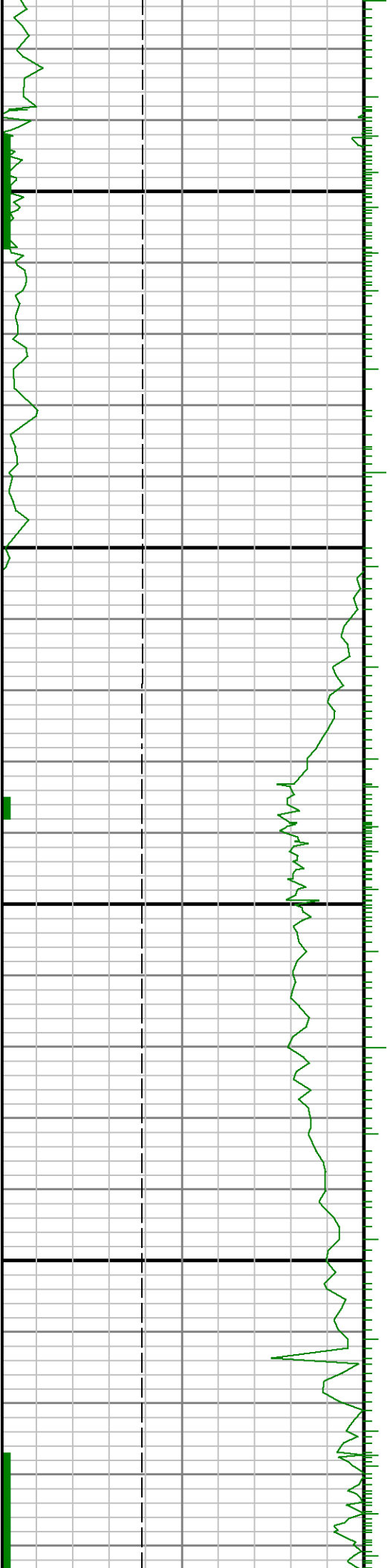
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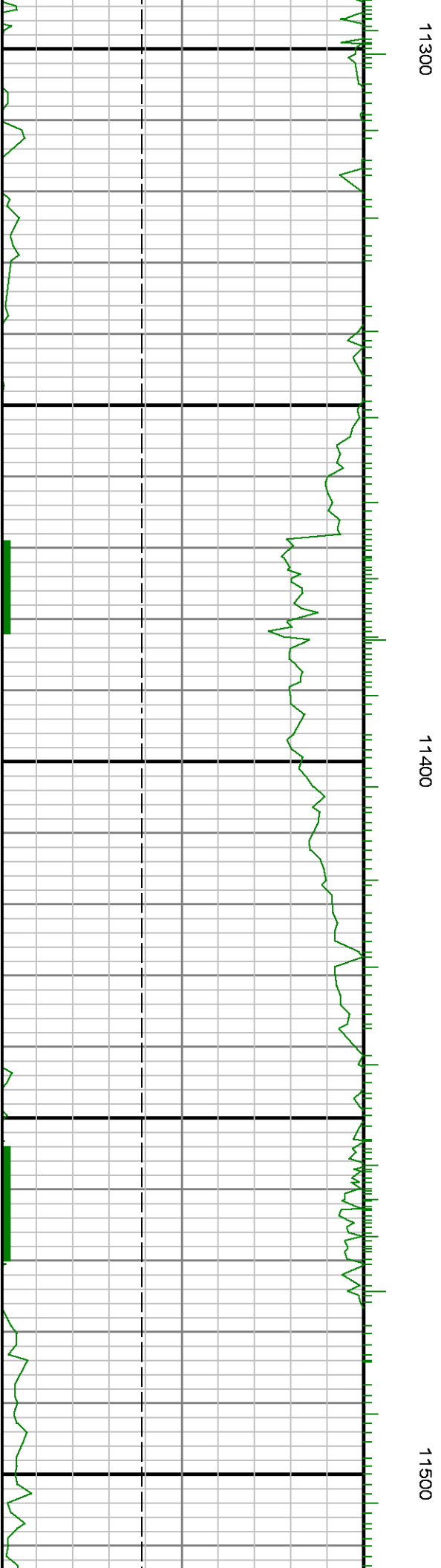
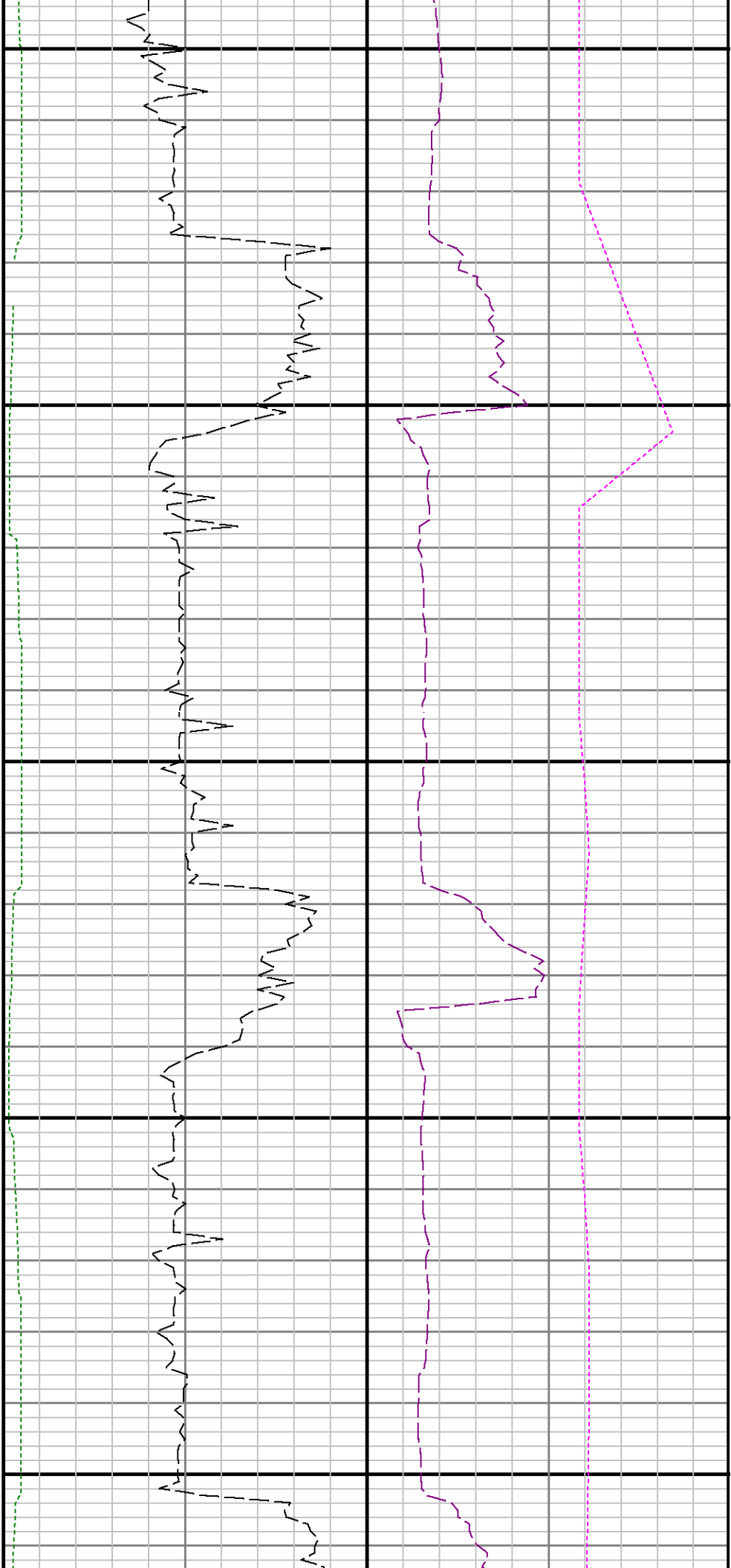




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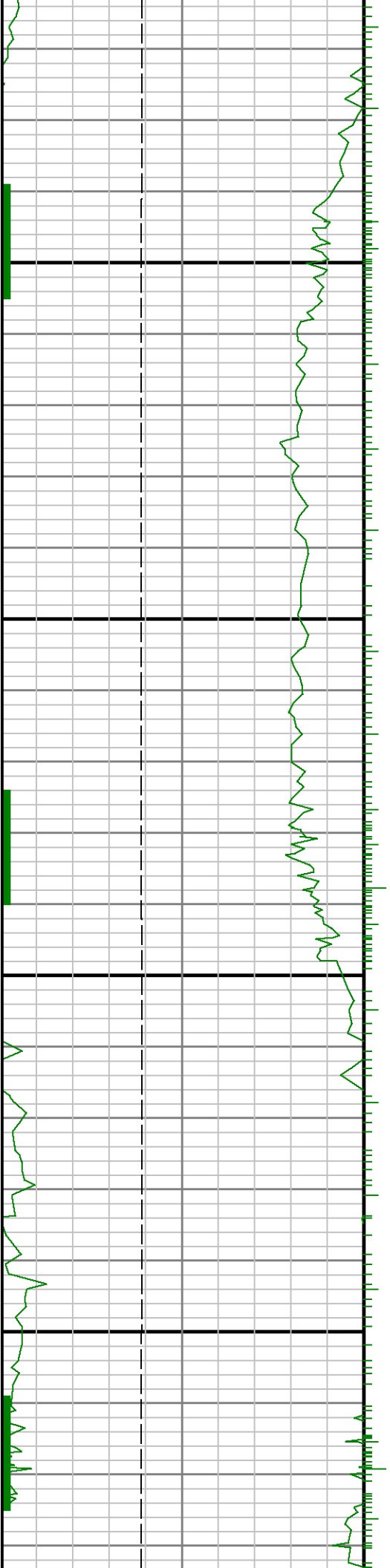


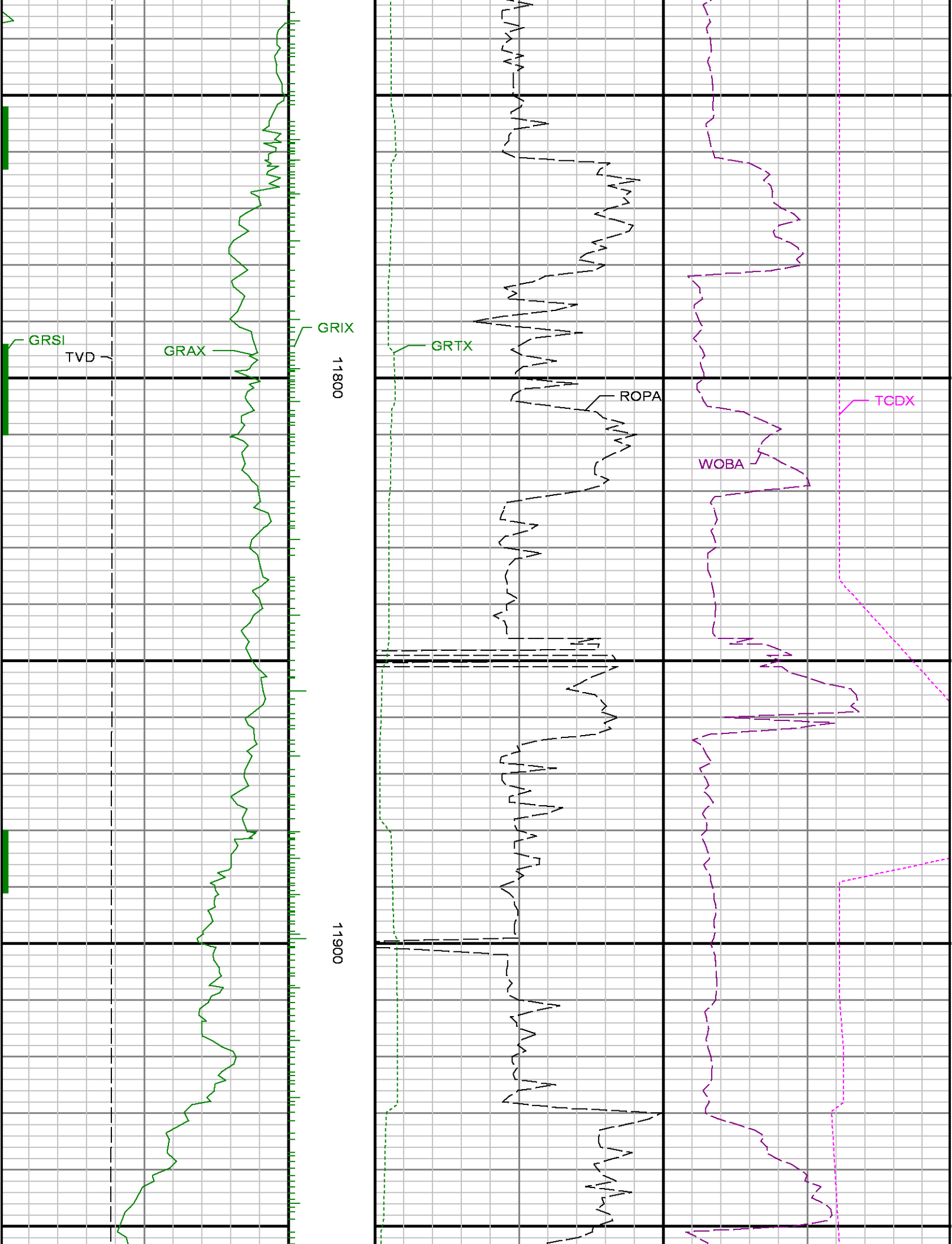


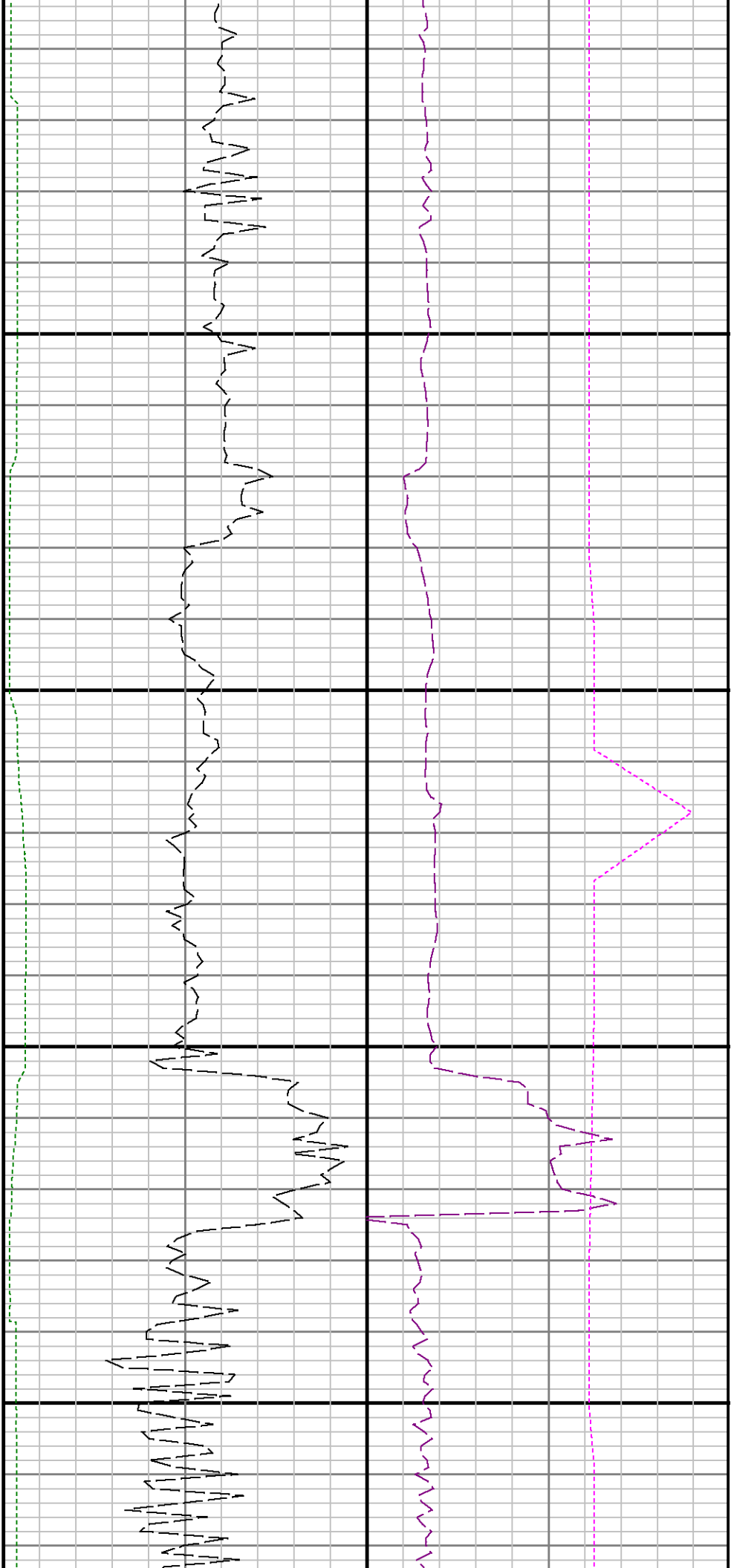


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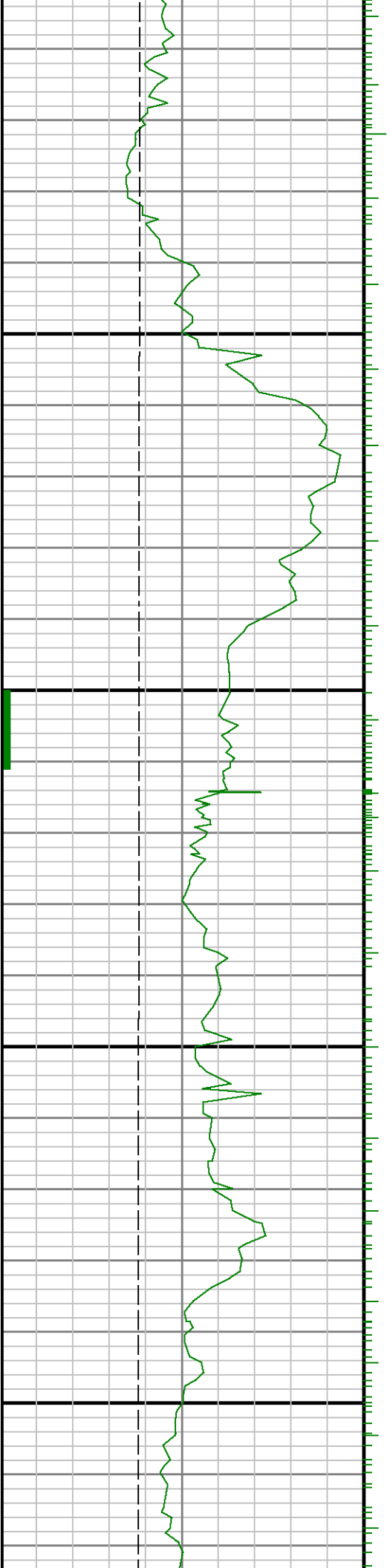


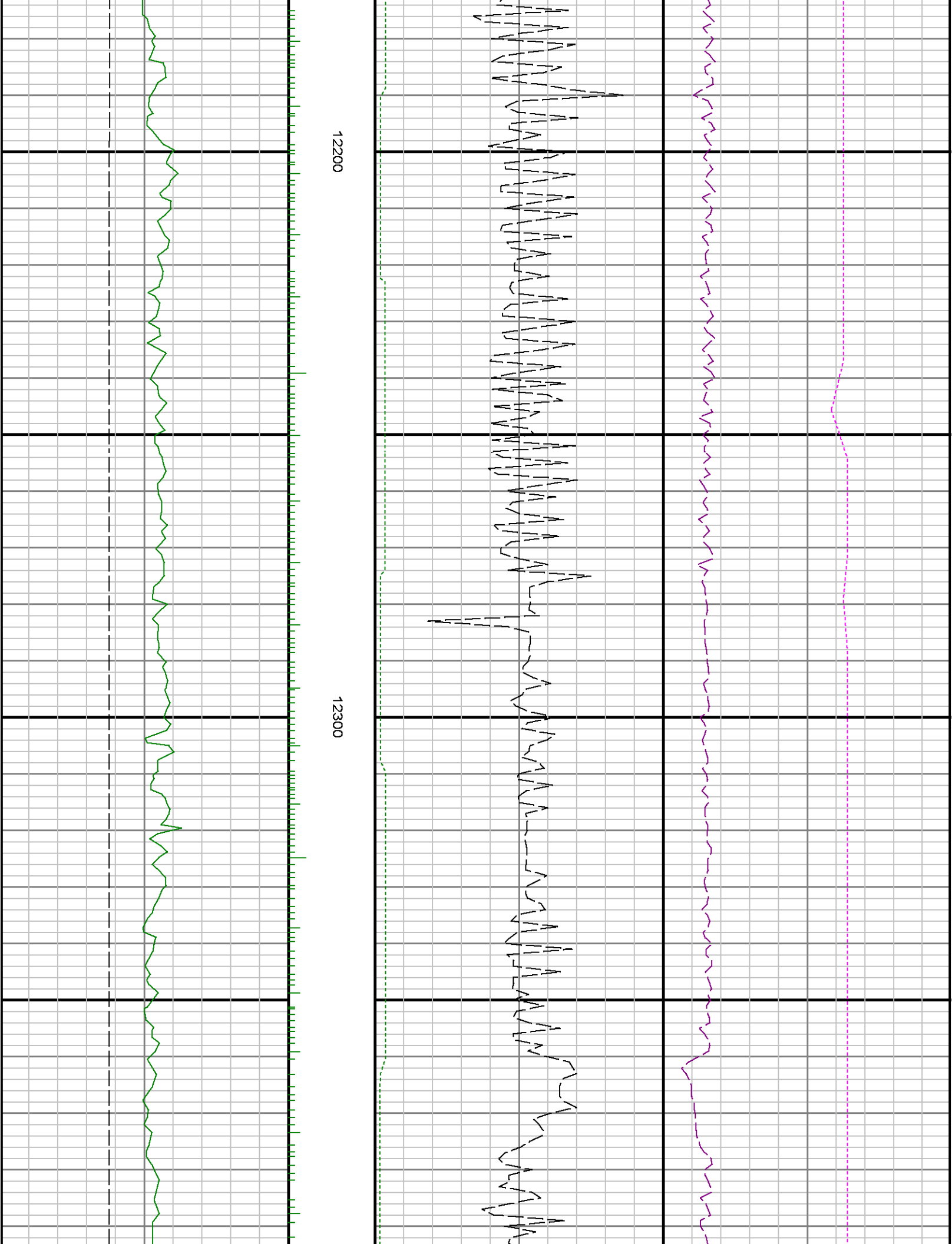


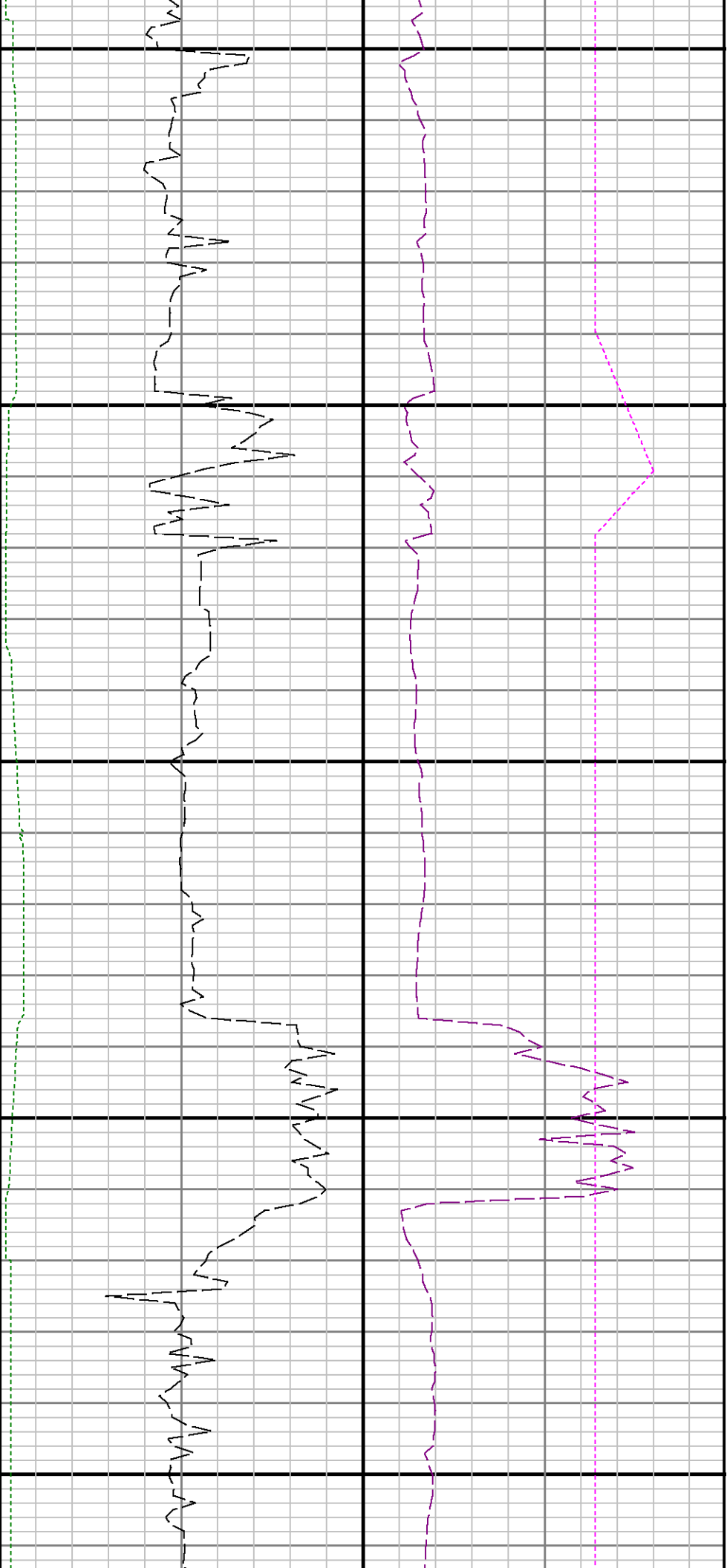


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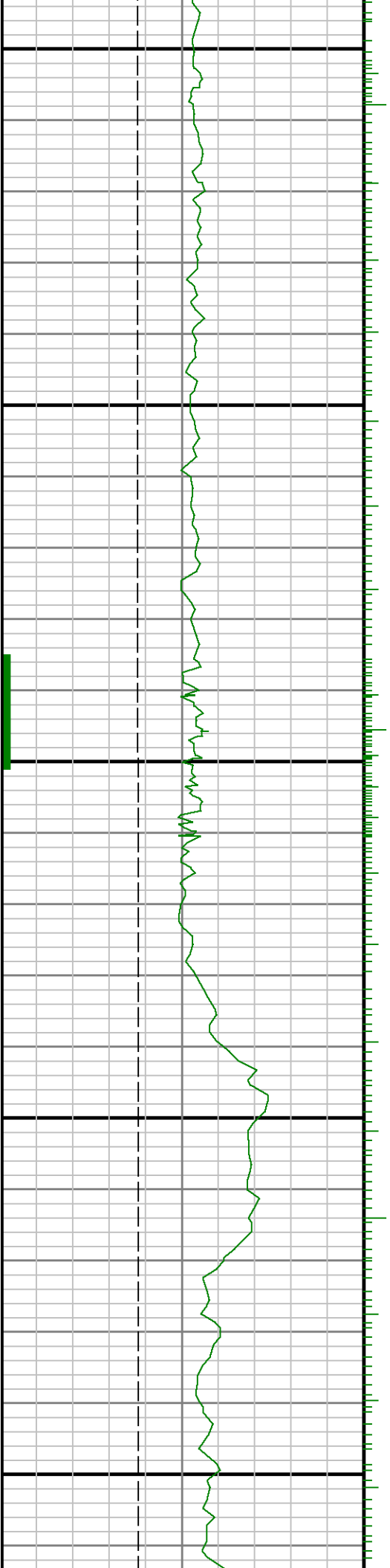


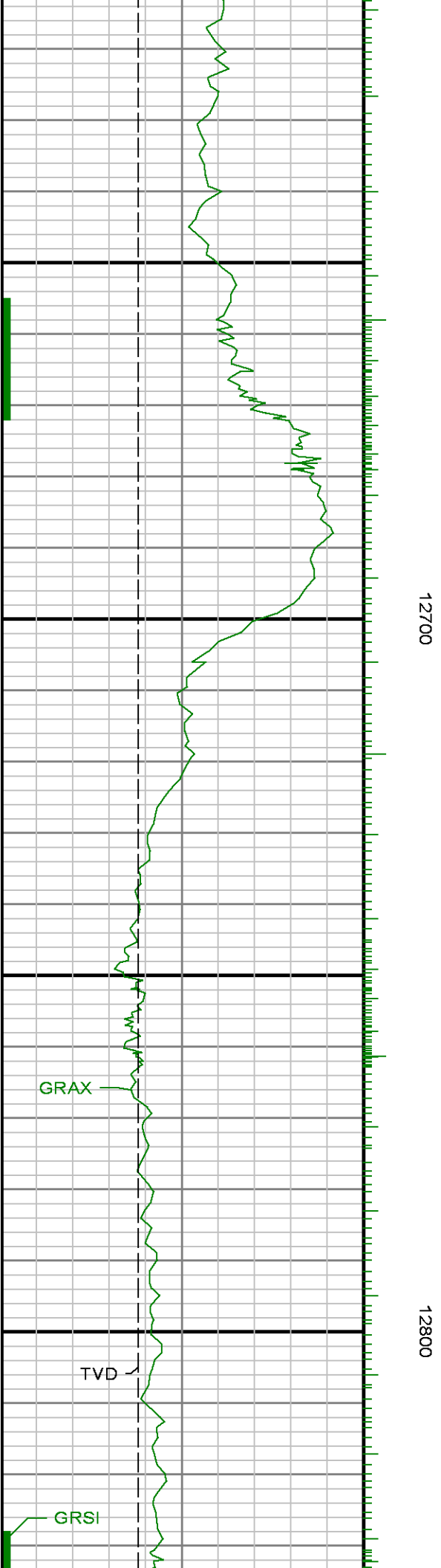
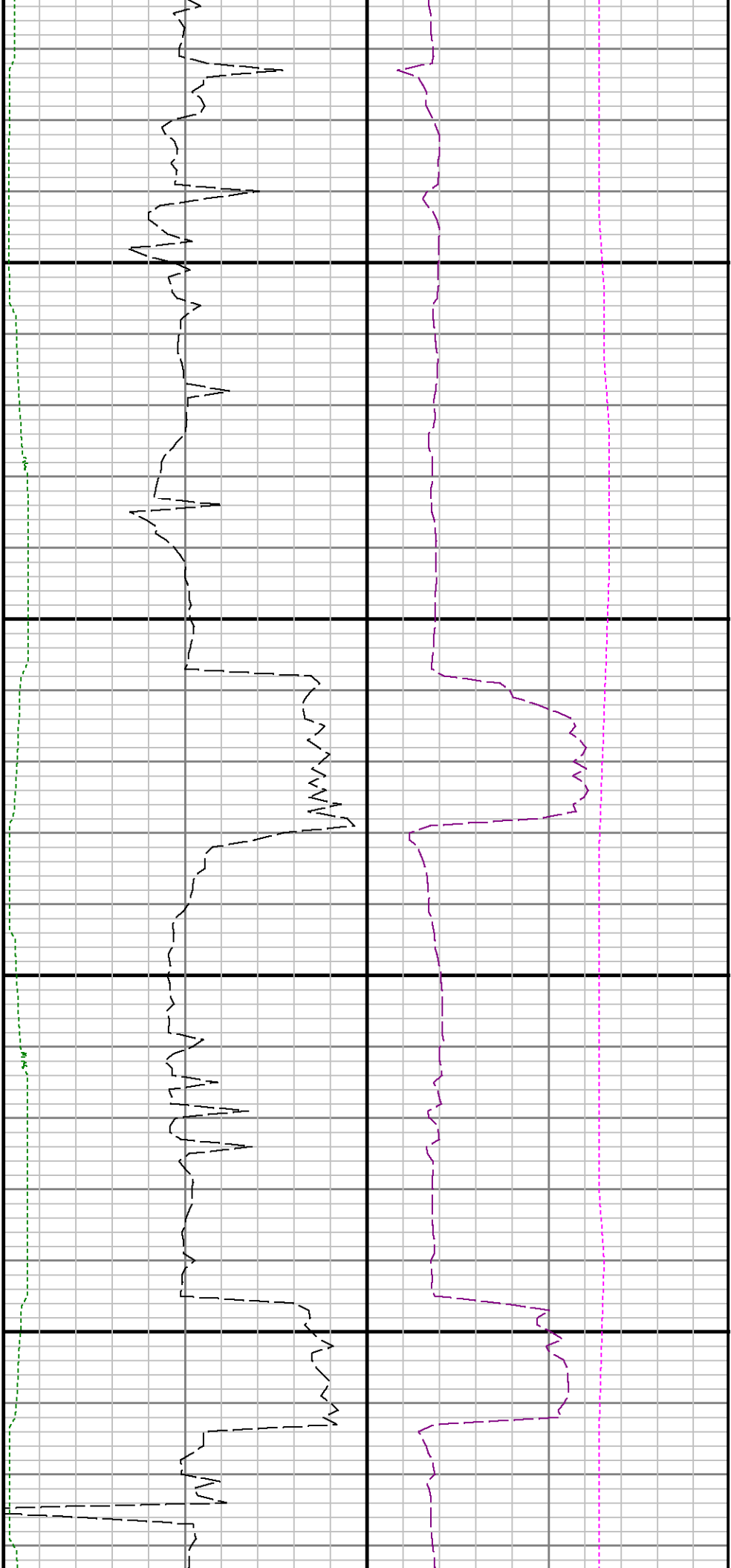


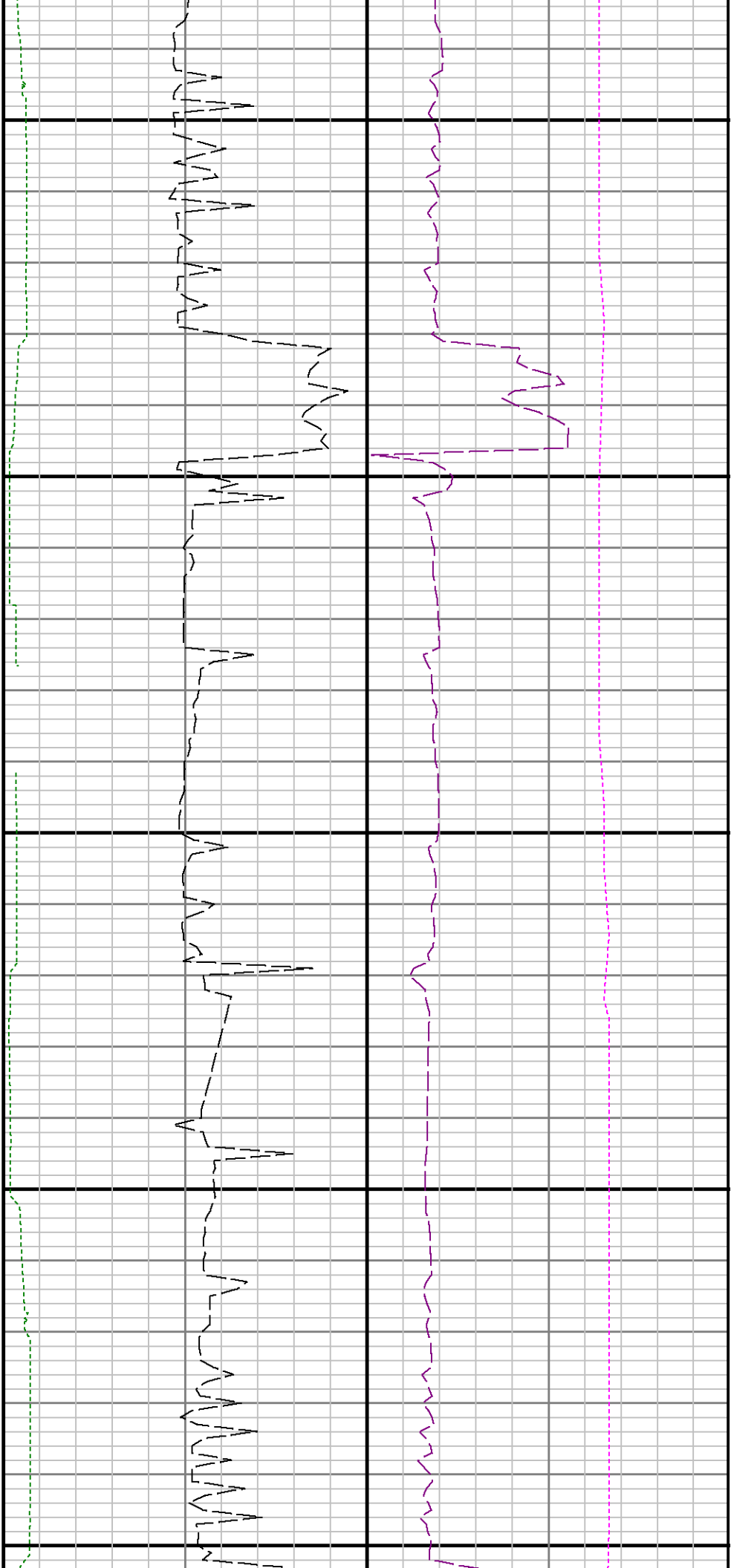
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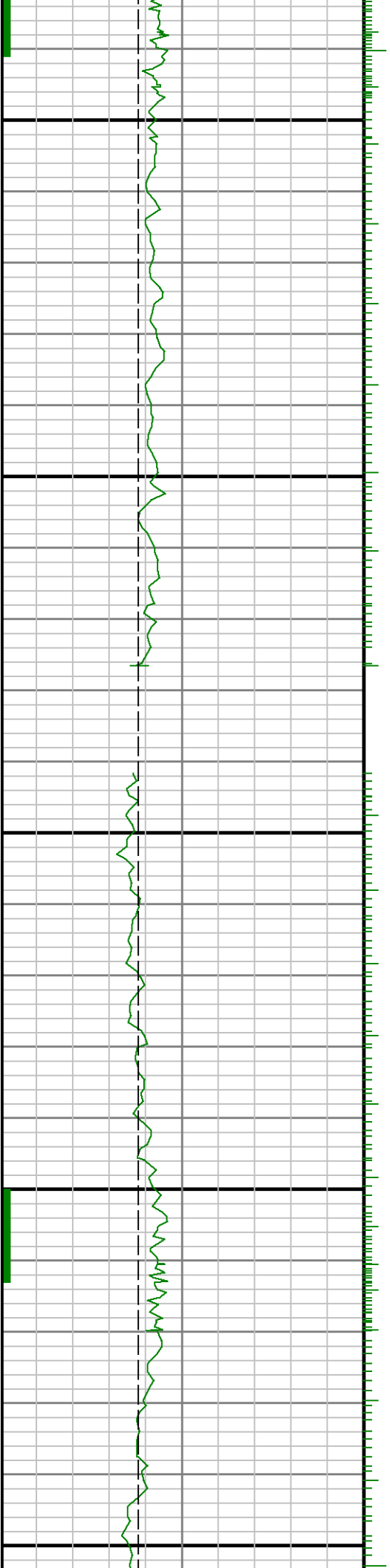






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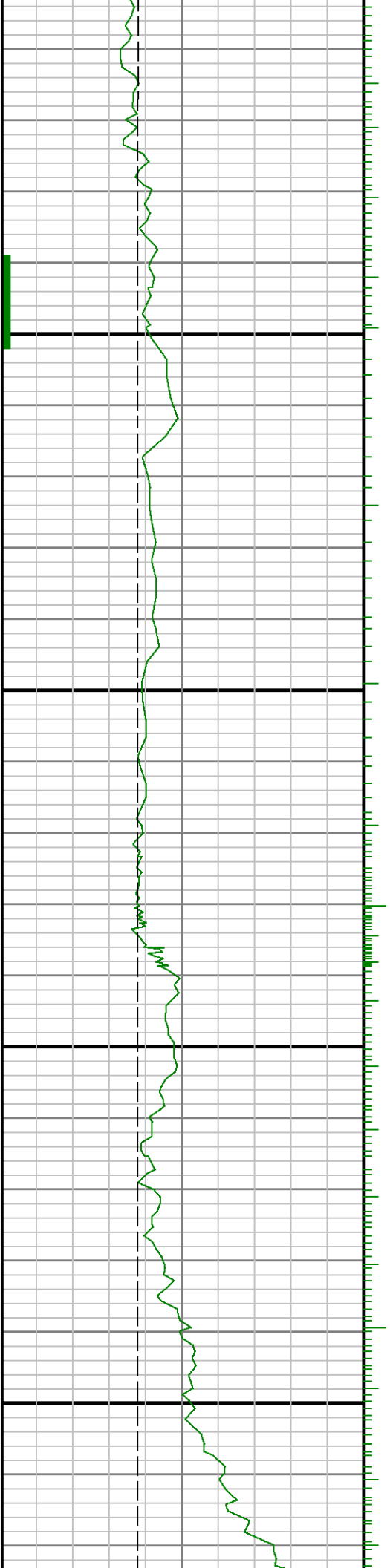
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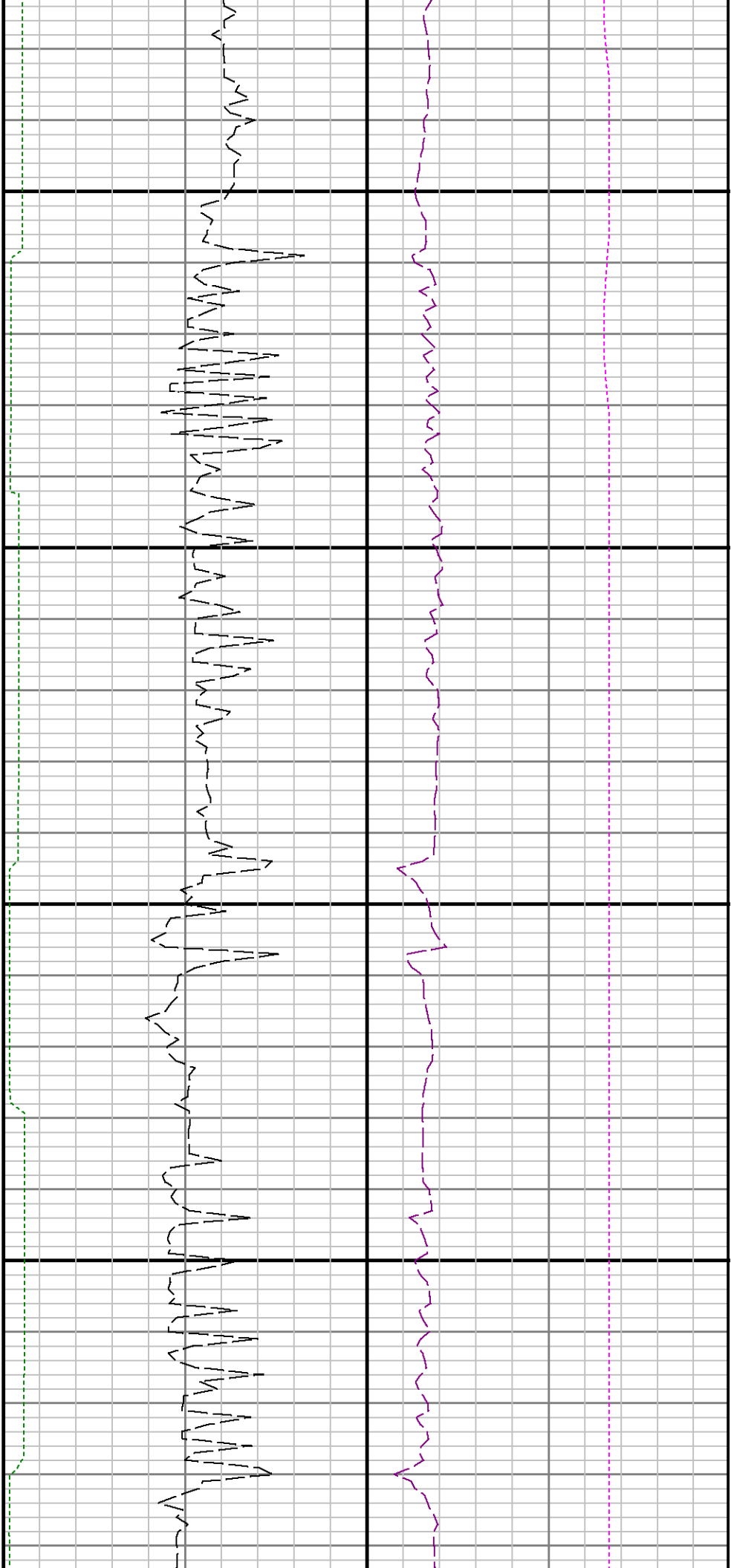




Run 2  $\diamond$  Run 3  
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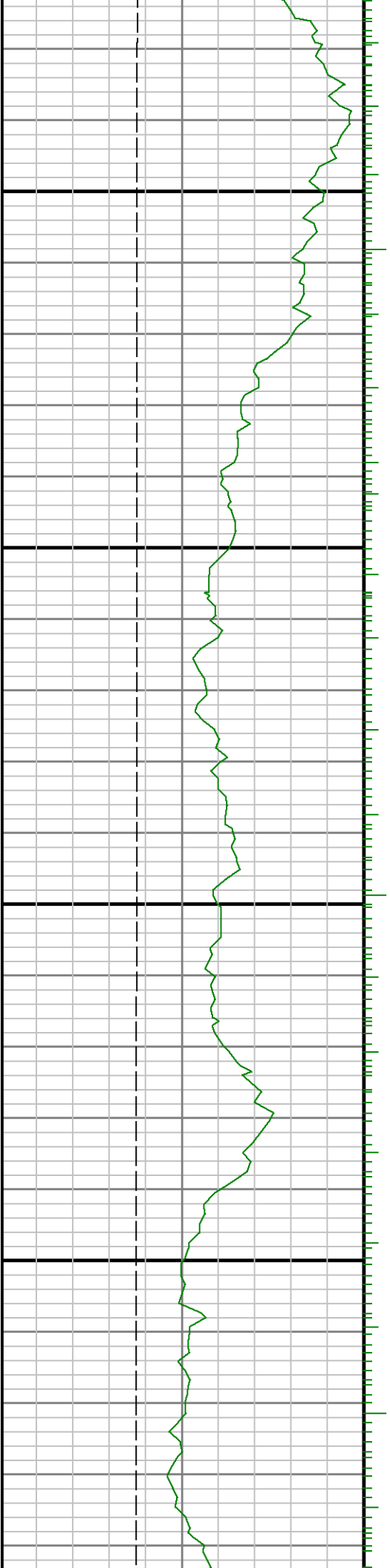
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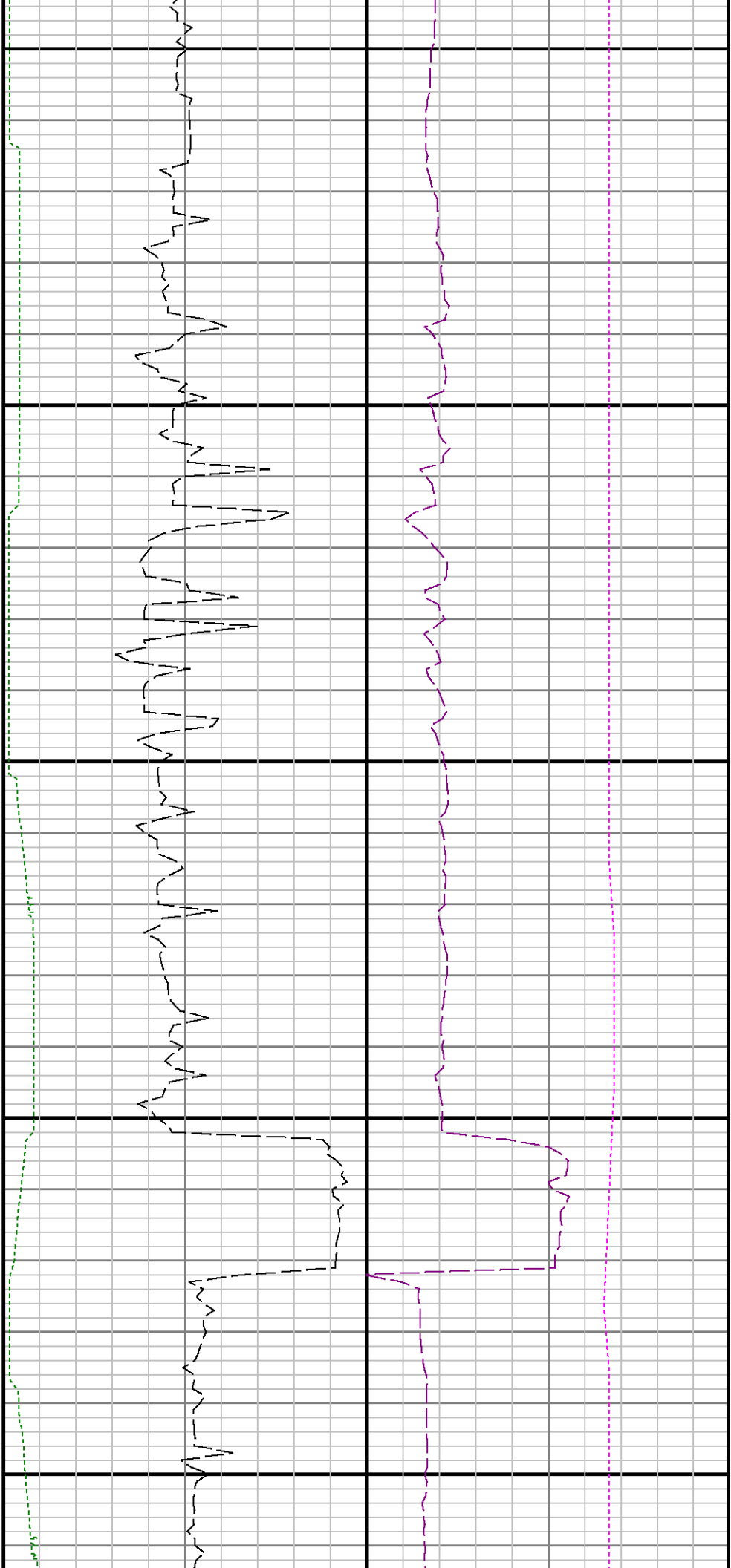




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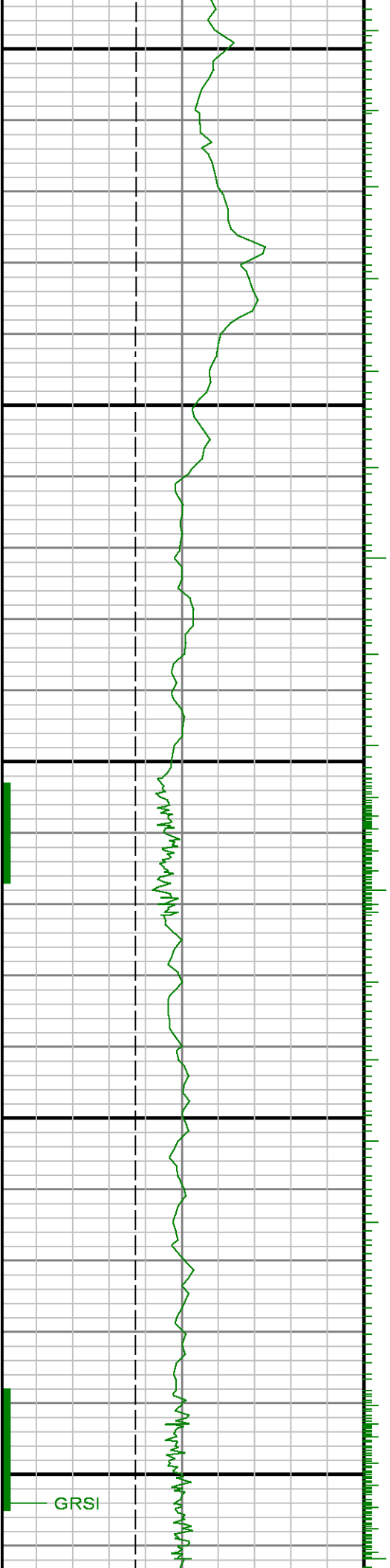




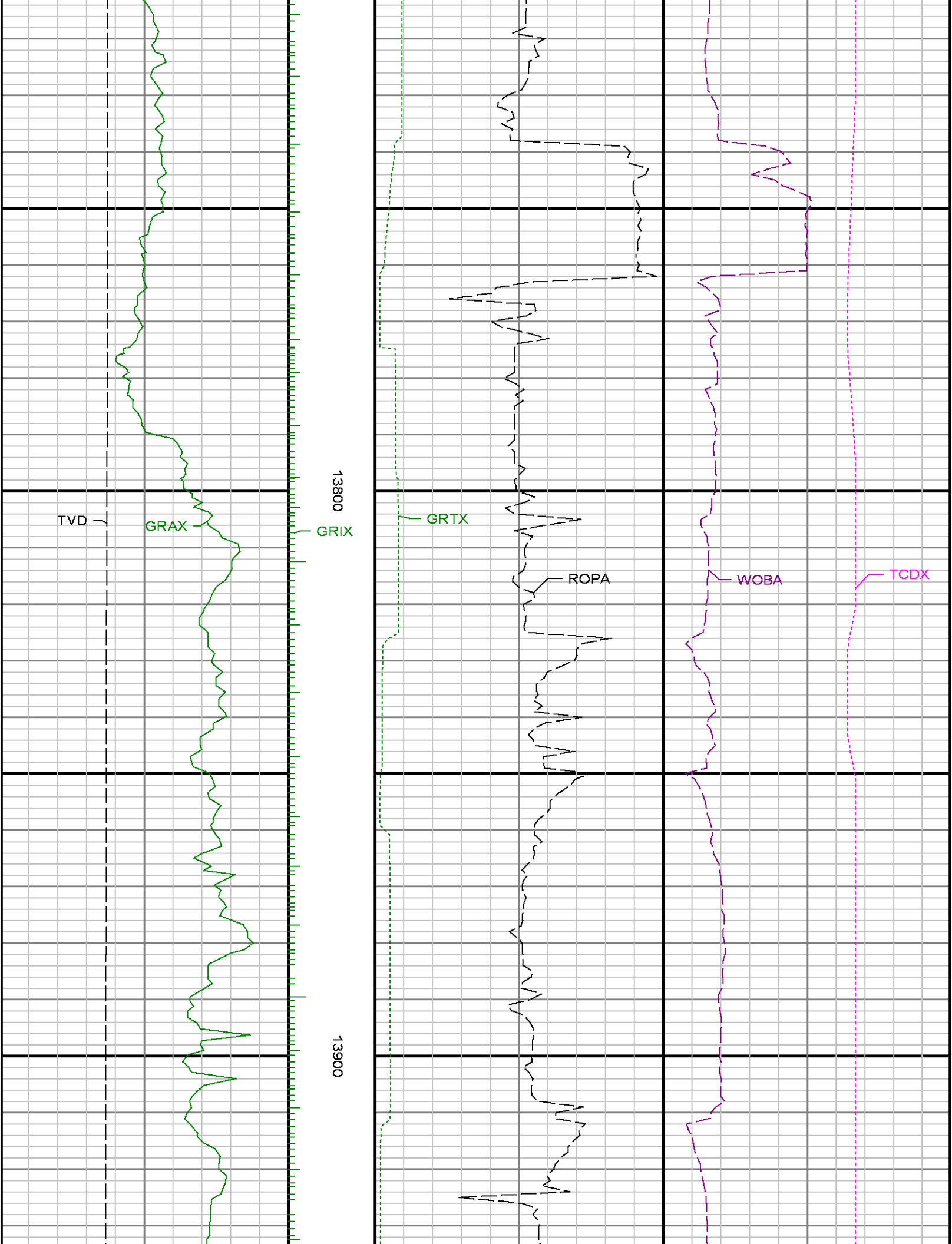
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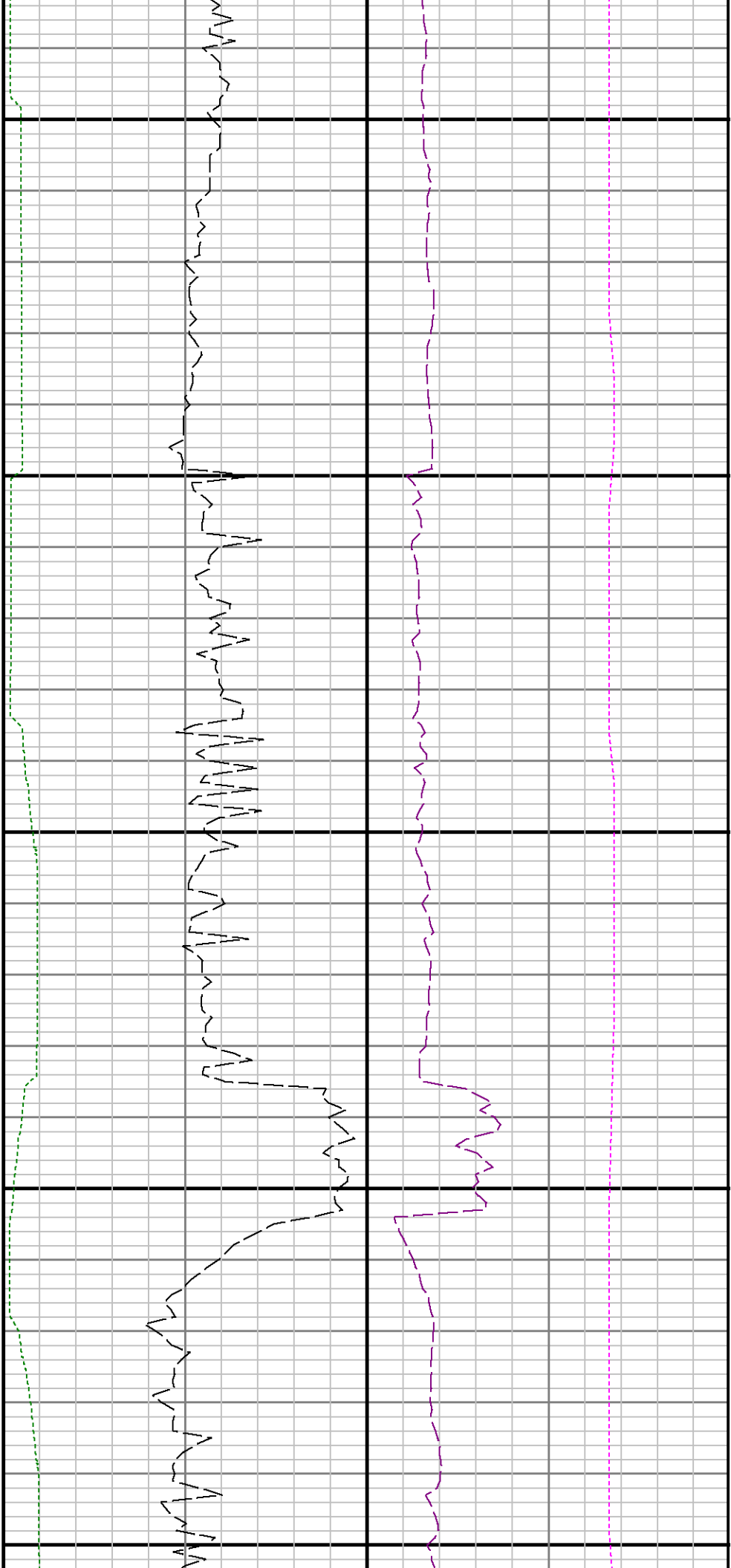
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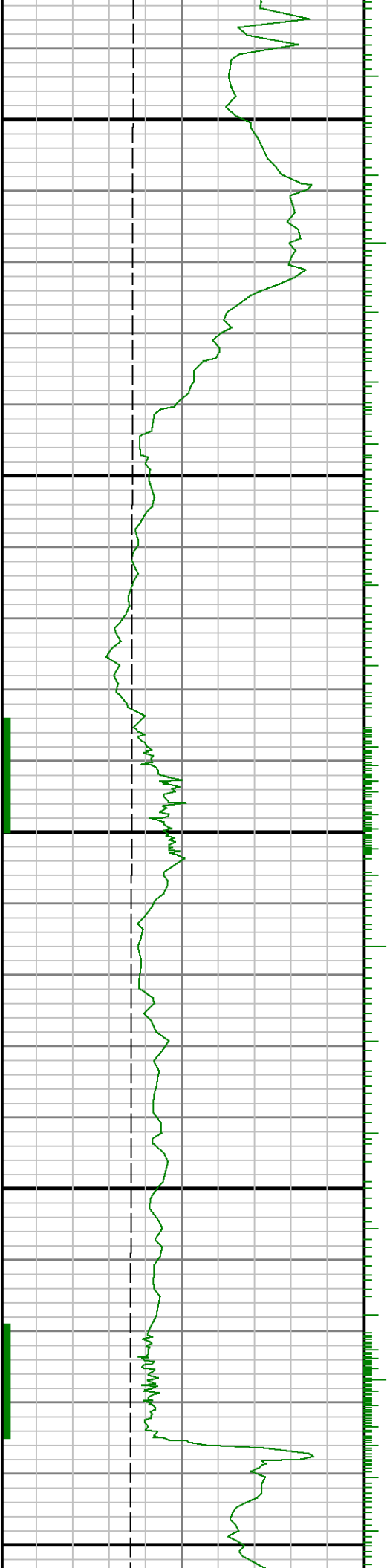
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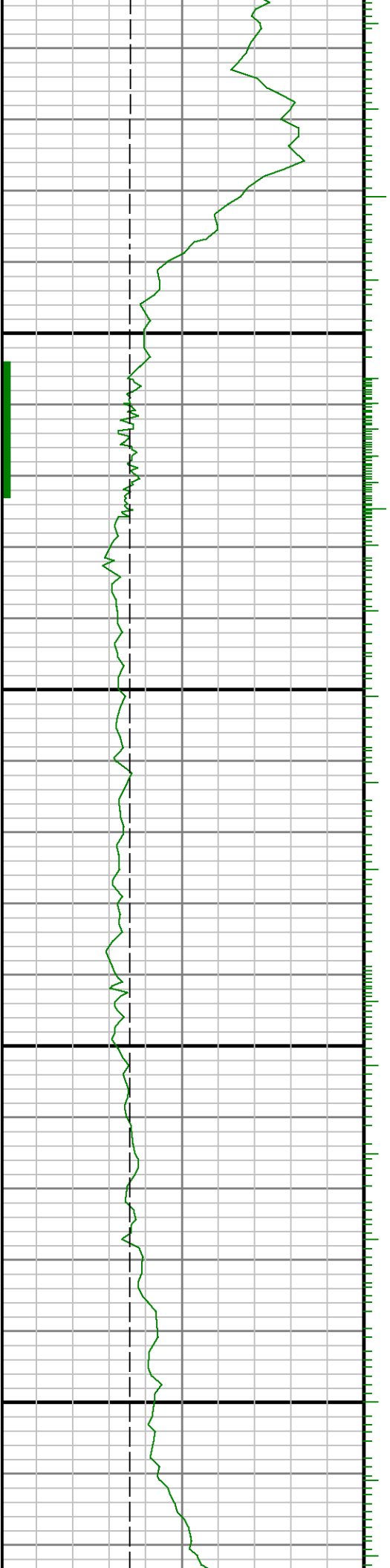
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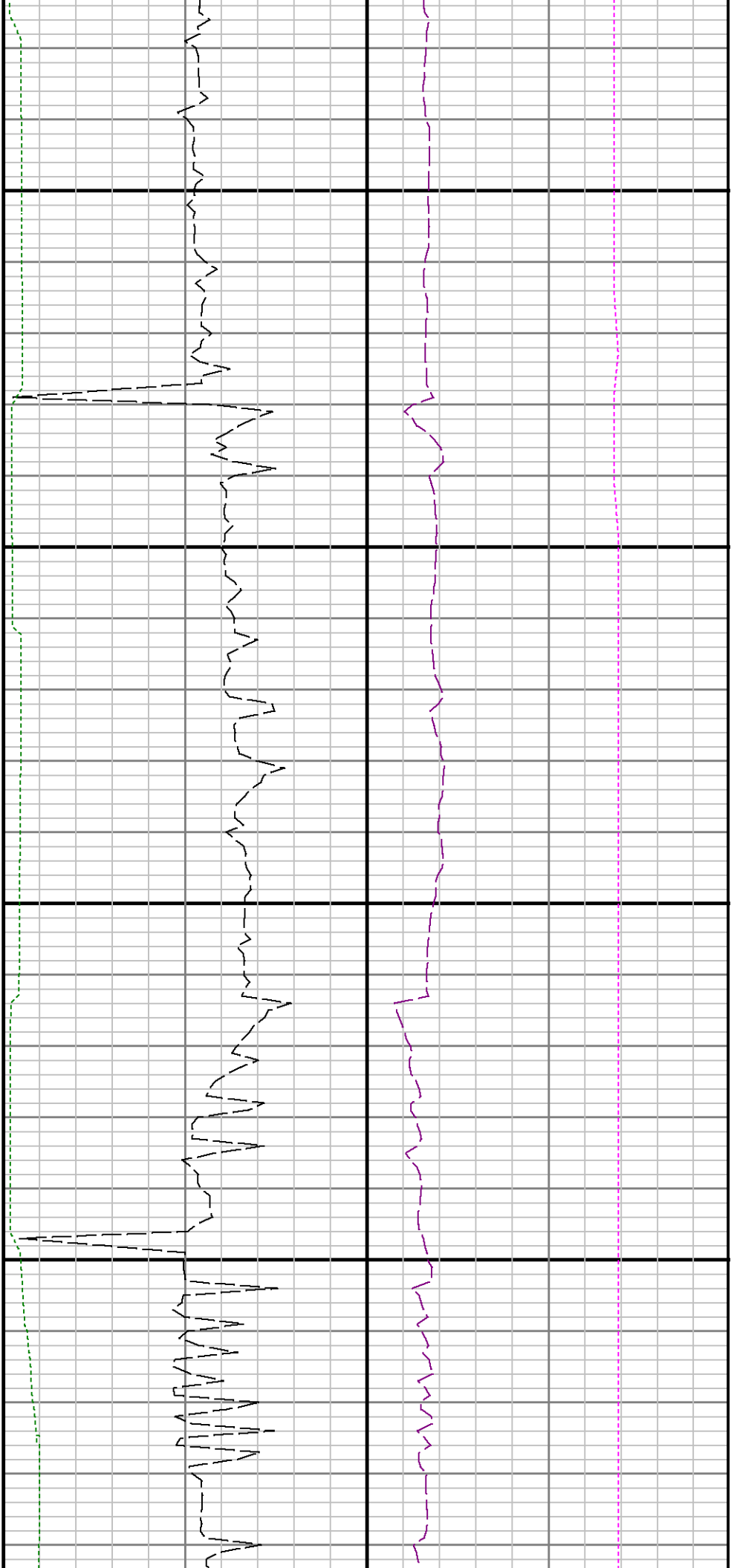




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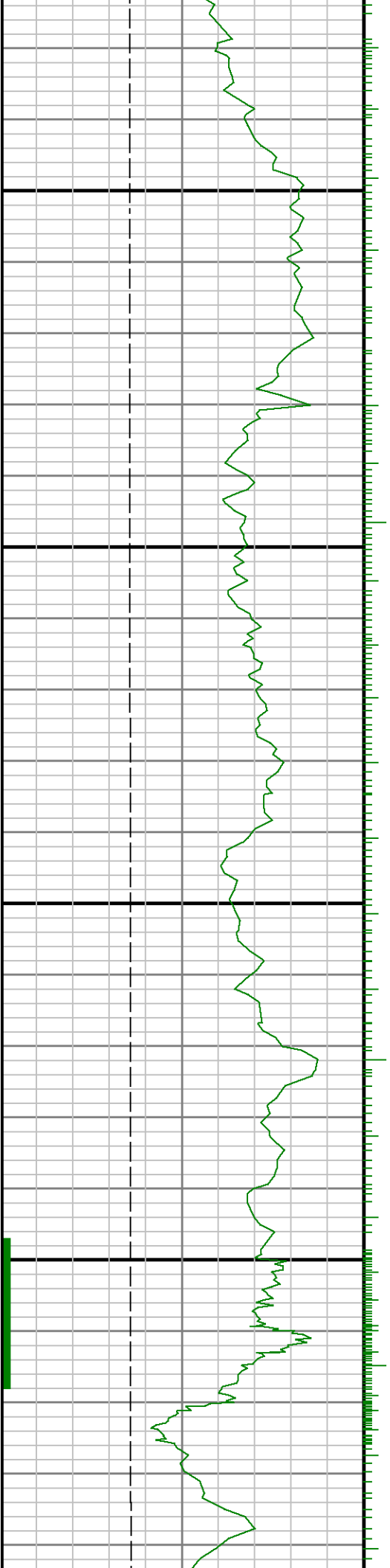
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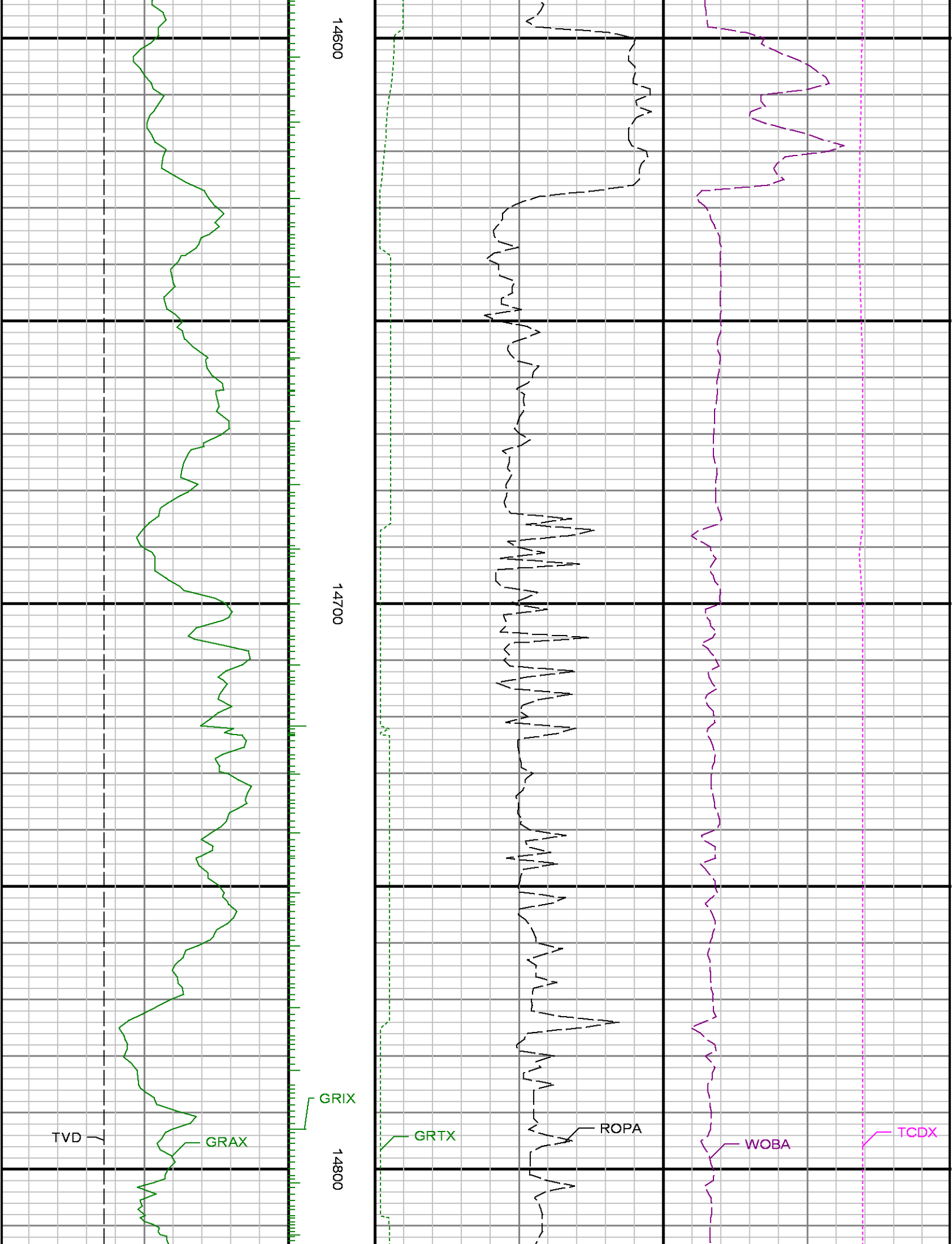


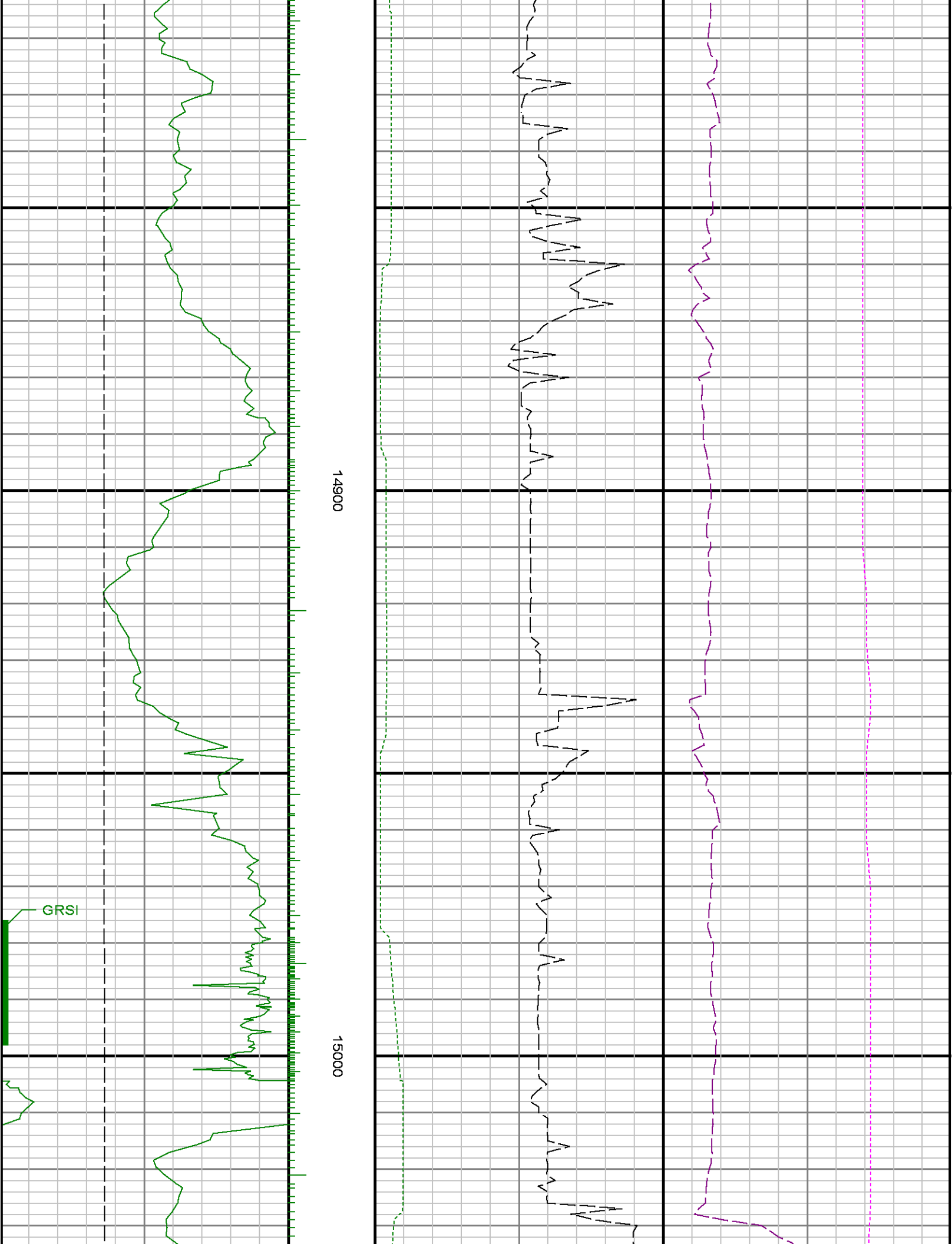


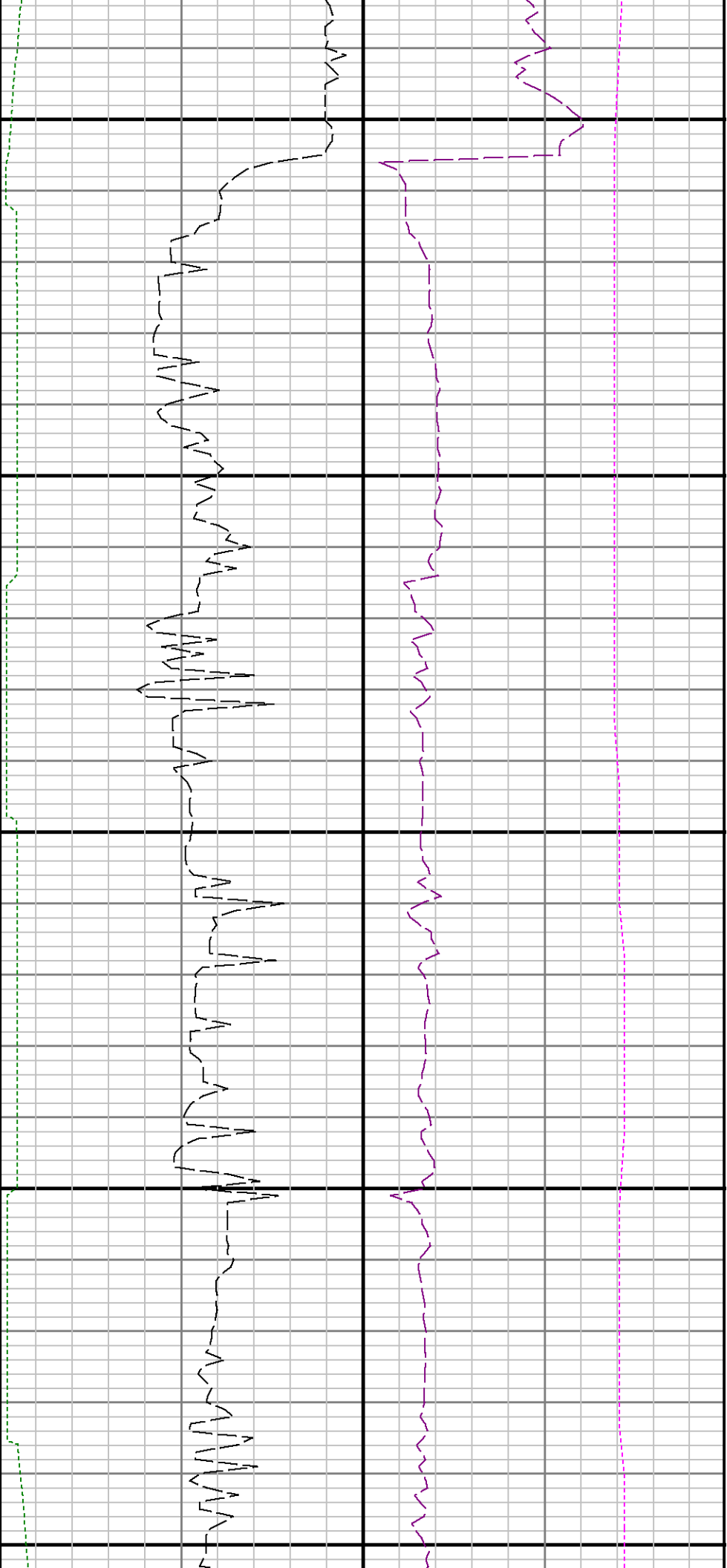
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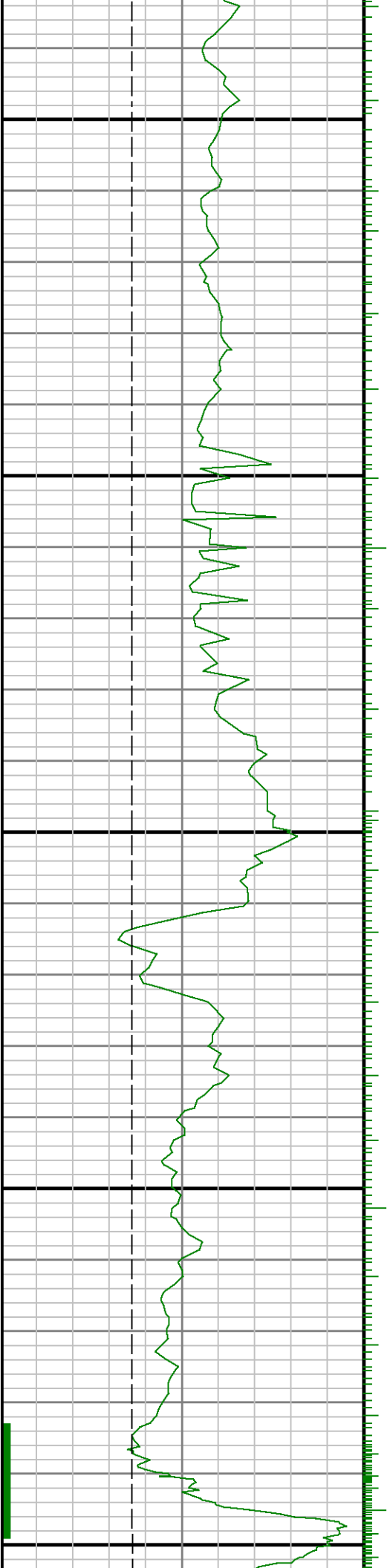






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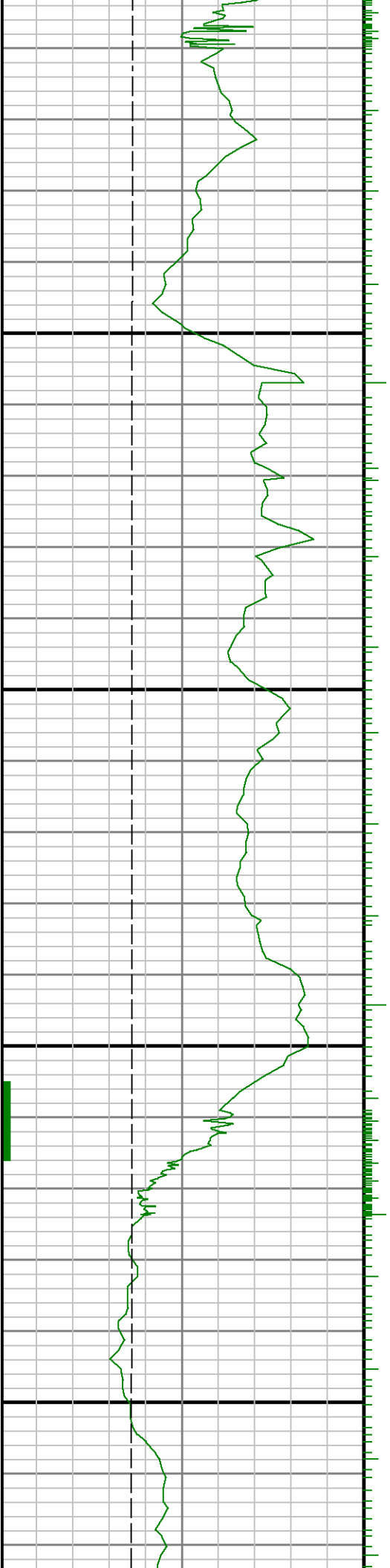
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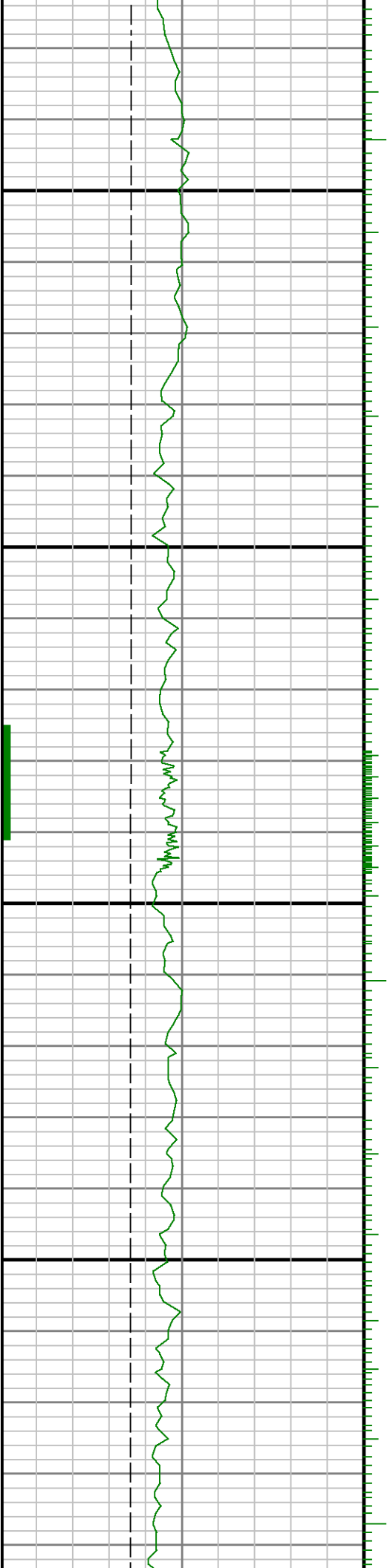
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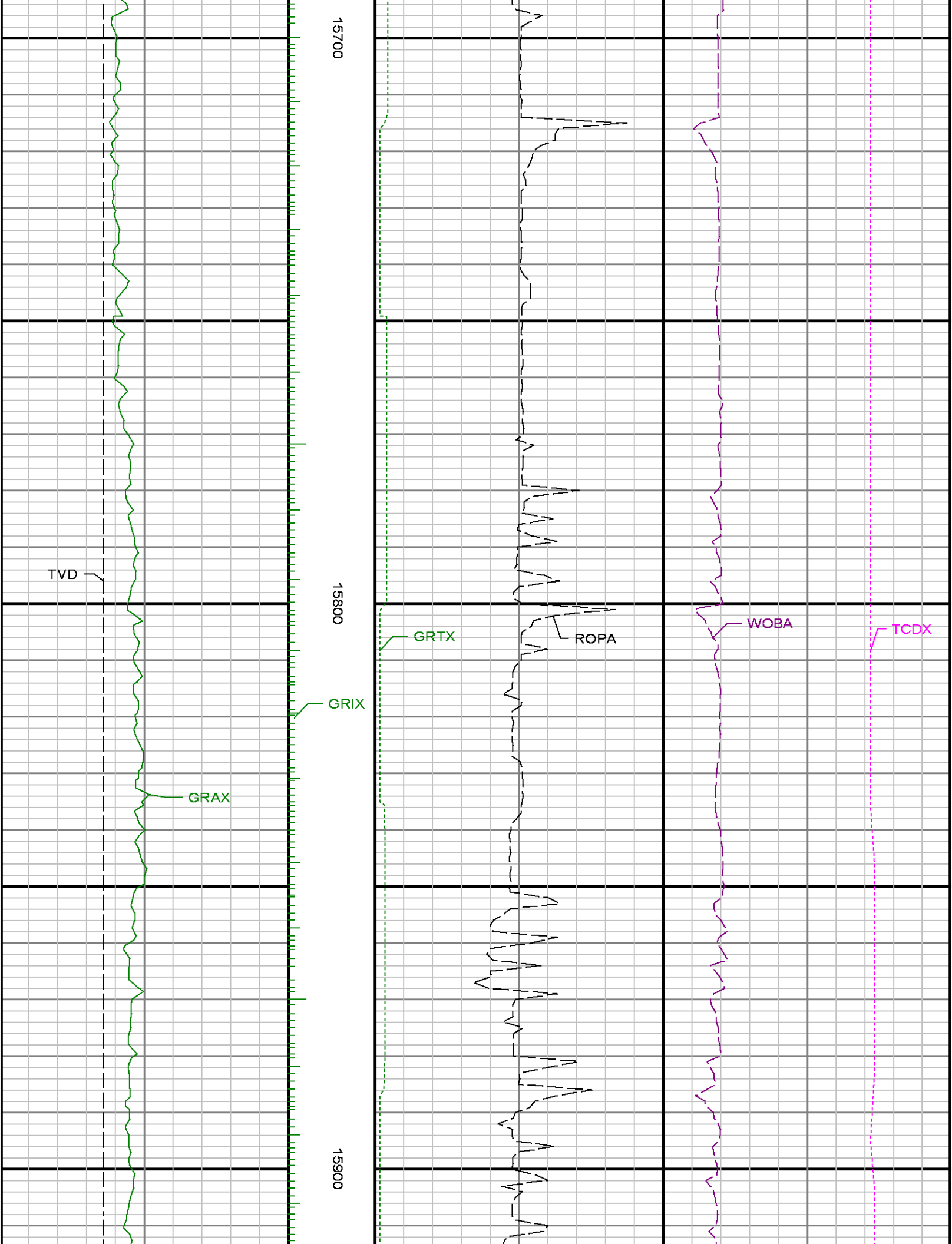


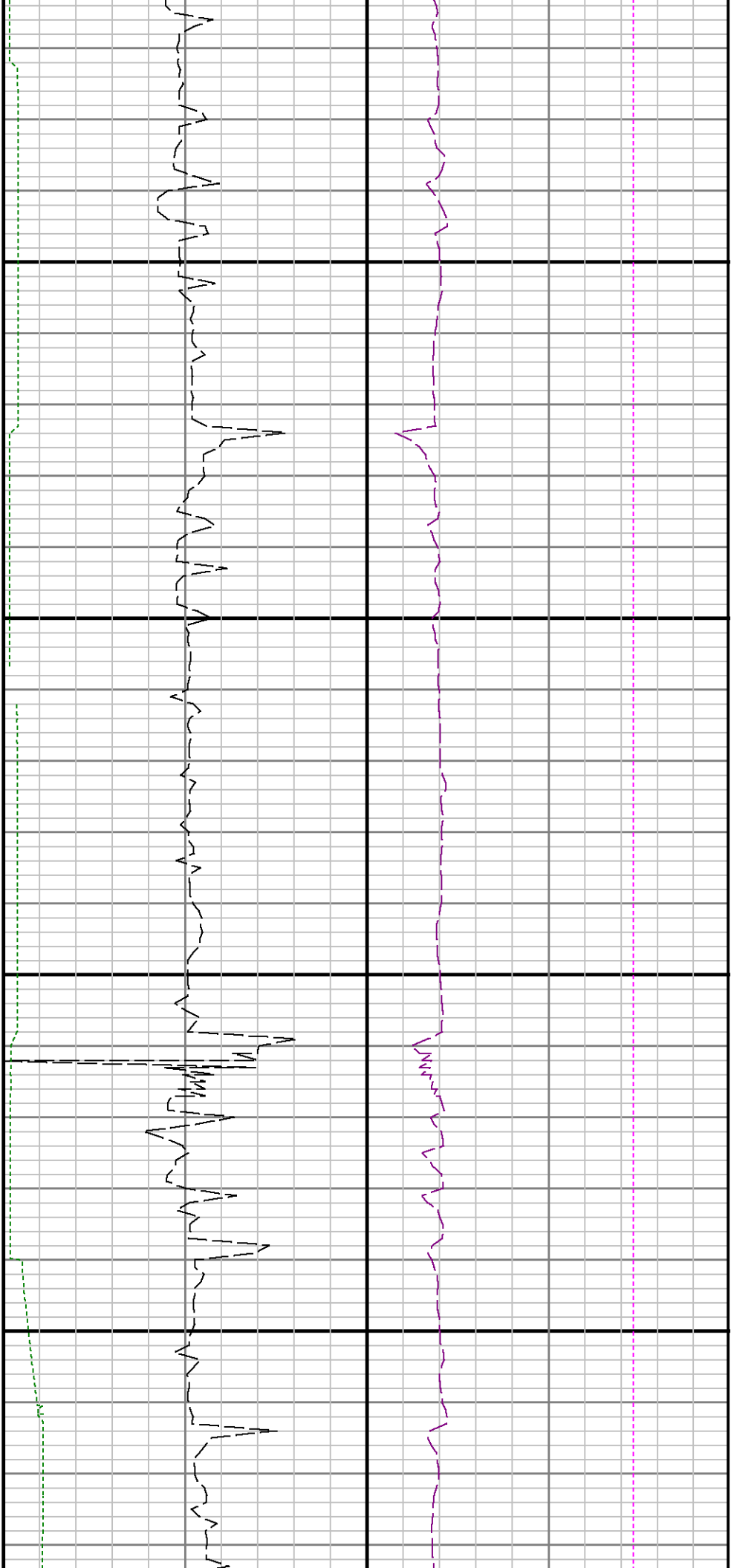


15500

15600

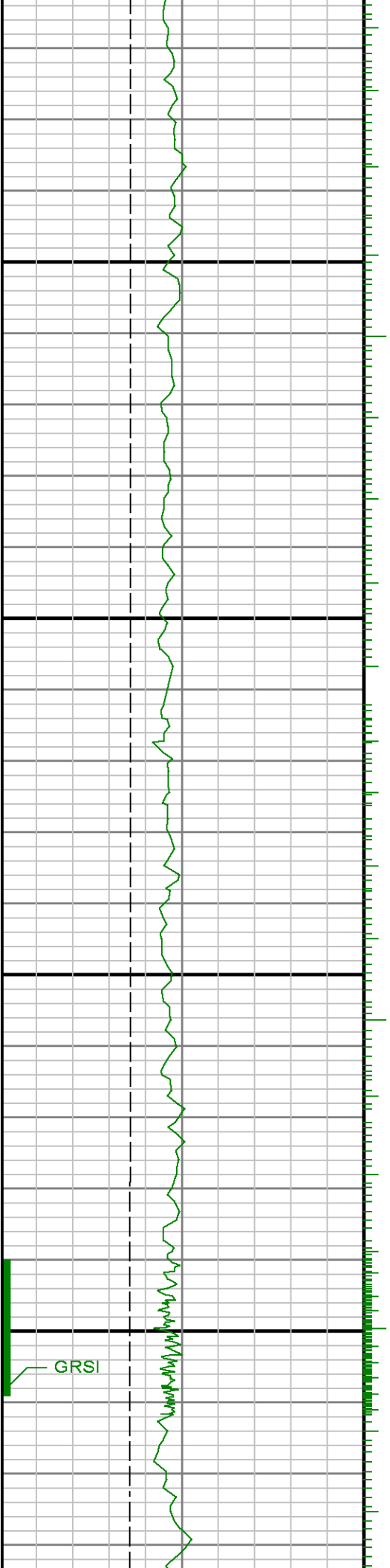


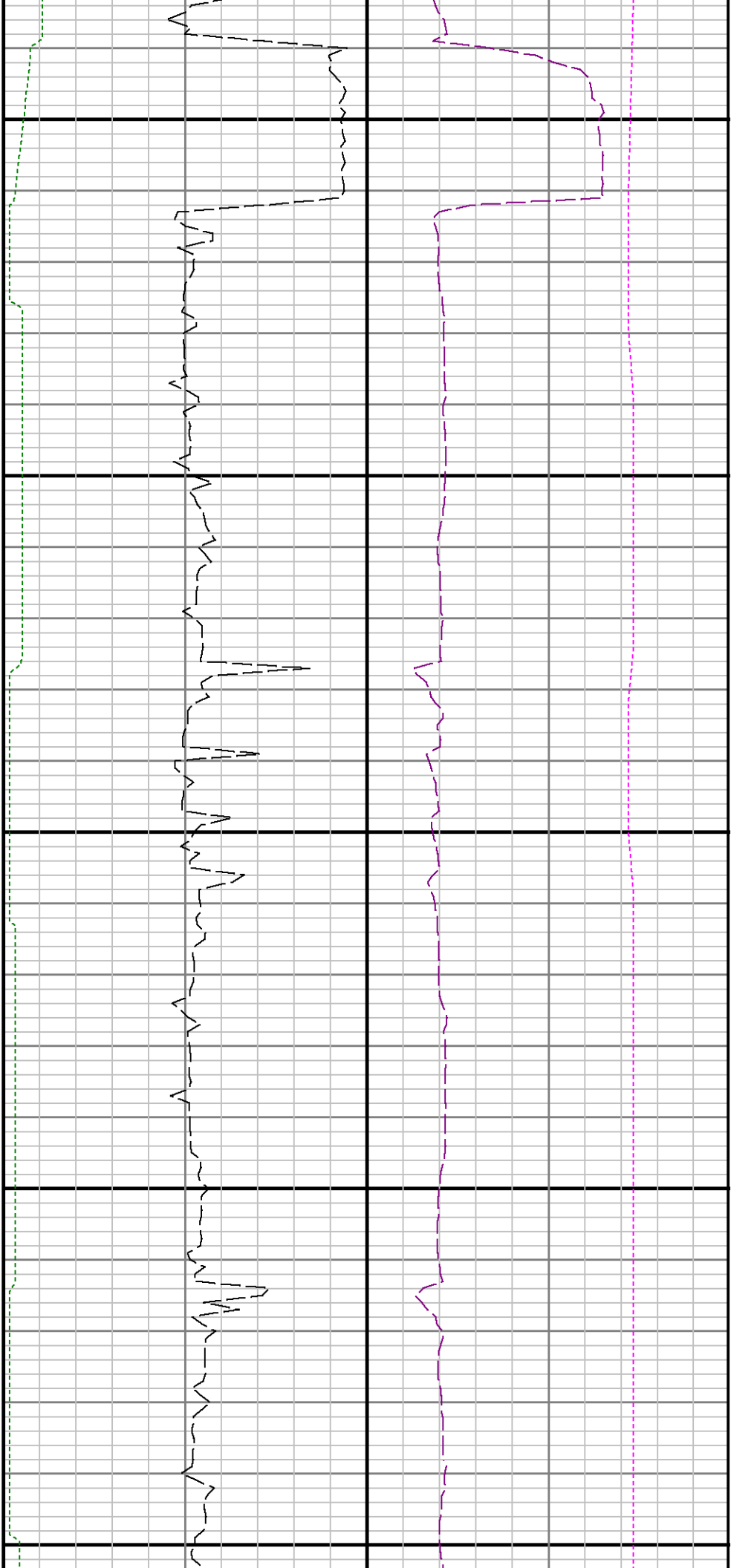




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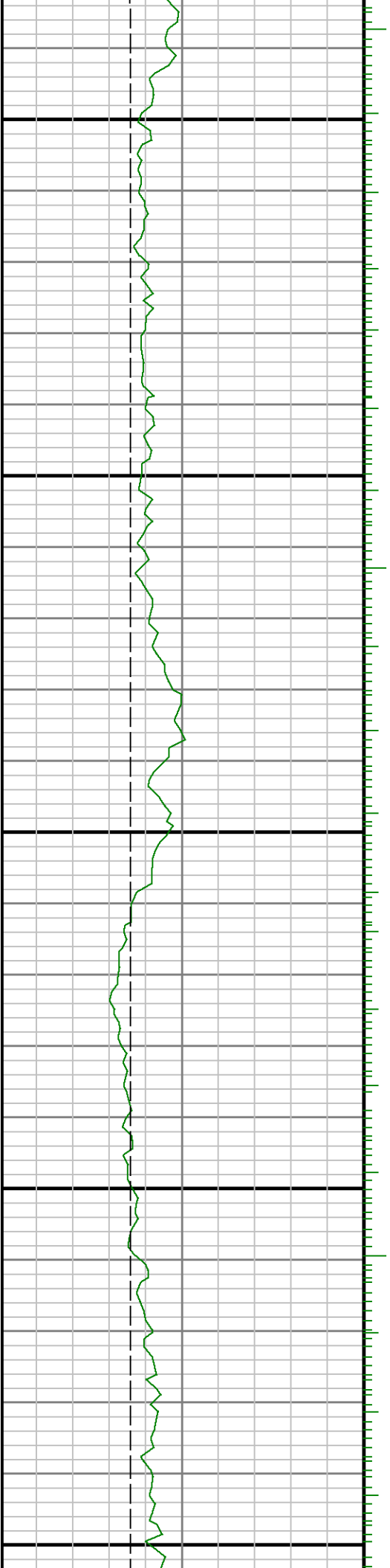
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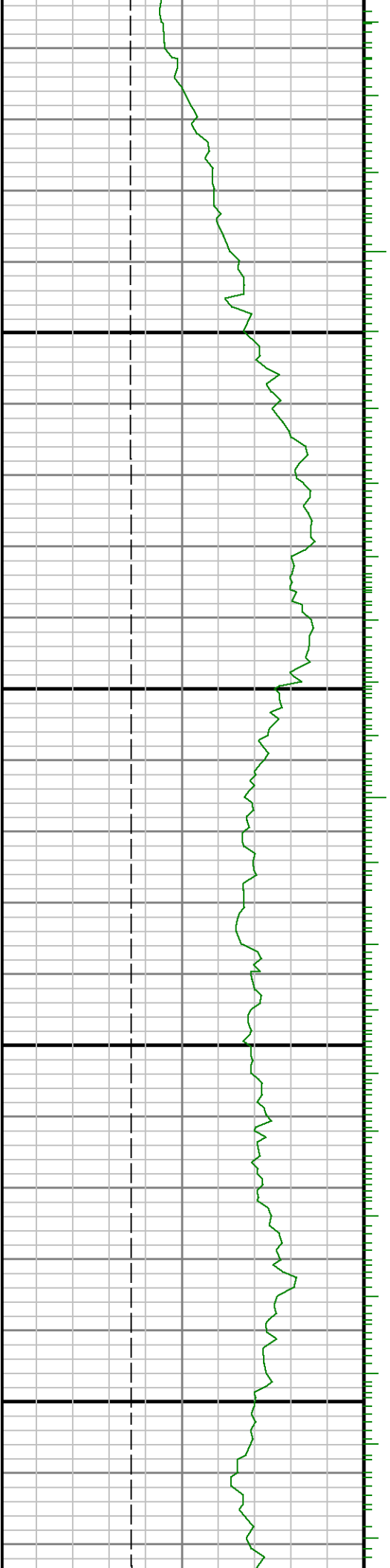
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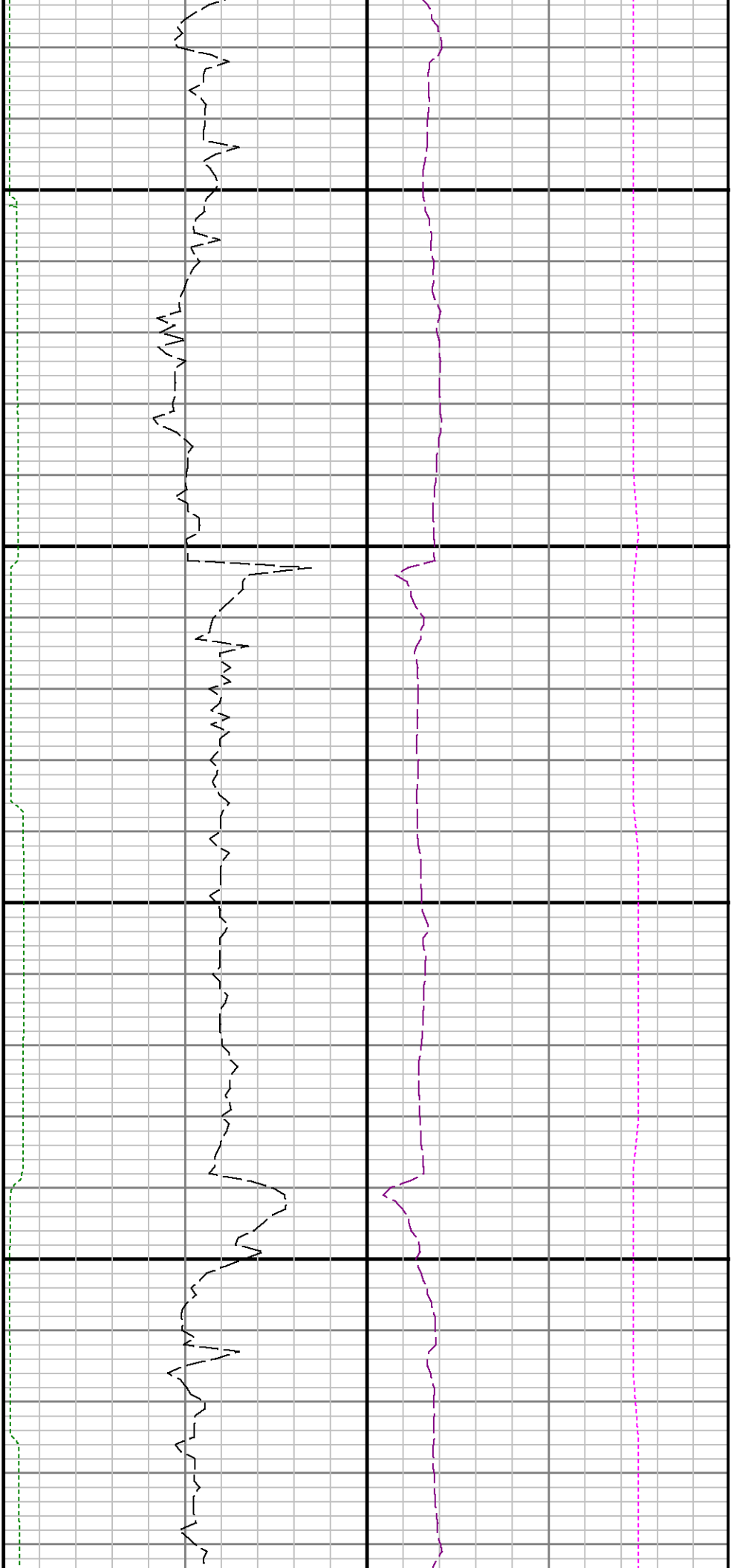




16400

16500





16600

16700

