



REALTIME LOGS

Natural Formation Evaluation
Gamma Ray

Scale:

1:240

MEASURED DEPTH

Company: Anadarko

Well: Barefoot State 40N-36HZ

Field: Weld County

County: Weld State: Colorado

Status: Surface Location: Other Services:

Final Print

Latitude: 40° 10' 48.864" N

Longitude: 104° 58' 41.538" W

API Number: 051 23386320000

Section: 35 TWN: 3N Range: 68W

DIR
VSS

Permanent Datum (P.D.): Mean Sea Level Elevation: 26.00 ft.

Elevations: 4886.00 ft.

Log Measured From: Rig Floor 4886.00 ft. Above P.D.

KB: 4886.00 ft.
DF: N/A
GL: 4860.00 ft.

Depth Reference: Driller's Depth

GL: 4860.00 ft.

Interval Logged

Dates

Magnetic Field Reference

Top: 6500.0 ft. Date From: 18/May/14 Dip Angle: 66.83° Azi Reference North: True

Bottom: 16442.0 ft. Date To: 26/May/14 Total Mag to Reference

Spud Date: 18/May/14 Field Strength: 52698.0 nT North Correction: 8.70°

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
13.500 in.	Surface	1007.0 ft.	9.625 in.	40.00 lb/ft	Surface	997.0 ft.
8.750 in.	1007.0 ft.	7538.0 ft.	7.000 in.	26.00 lb/ft	Surface	7529.0 ft.
6.125 in.	7538.0 ft.	16499.0 ft.				

Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Based	Surface	7538.0 ft.	13.500 in.	Surface	0.0° / 316.0°	0.3° / 319.5°
Synthetic Based	7538.0 ft.	16499.0 ft.	8.750 in.	Vert/Curve	0.6° / 276.4°	83.6° / 90.3°
			6.125 in.	Lateral	89.5° / 85.8°	91.5° / 90.3°
					/	/
					/	/
					/	/

Acquisition System

Software Version

Other

Advantage	2.20U4	Rig / Contractor:	H&P 307	/ Advance Drilling
PATS	6.4.1.34	Job No:	6176965	
		District / Unit:	Rocky Mountains	/ D&E

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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 (ft.)	Bottom (ft.)	From (ft.)	To (ft.)	Start	End	
1	1	1	8.500	PDC		Steerable	6500.0	7478.0	1007.0	7538.0	18/May/2014 10:06	20/May/2014 05:33	32
2	2	2	6.125	PDC		Steerable	7478.0	16442.0	7538.0	16499.0	22/May/2014 09:33	26/May/2014 7:08	115

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Nicholas Roosen	18/May/2014	26/May/2014	David Belek	18/May/2014	26/May/2014			

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft Avg.	API
GRTX	Gamma Ray Time Since Drilled	Min.
GRIX	Gamma Ray Density, Points	unitless
GRSI	Gamma Ray Slide Indicator	unitless
ROPA	Rate of Penetration, 3.0 ft Avg.	Ft./Hr.
TCDX	Downhole Temperature	Deg. F.
TVD	True Vertical Depth	Ft.
WOBA	Surface Weight on Bit, 1.0 ft. Avg.	K. lbs

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	12479852	Directional	62.18	6.750	3.250
1	SRIG	12376061	Gamma	59.14	6.750	3.250
2	DIR	11801247	Directional	61.05	4.750	2.750
2	SRIG	10628857	Gamma	57.77	4.750	2.750

Service and Tool Mnemonics

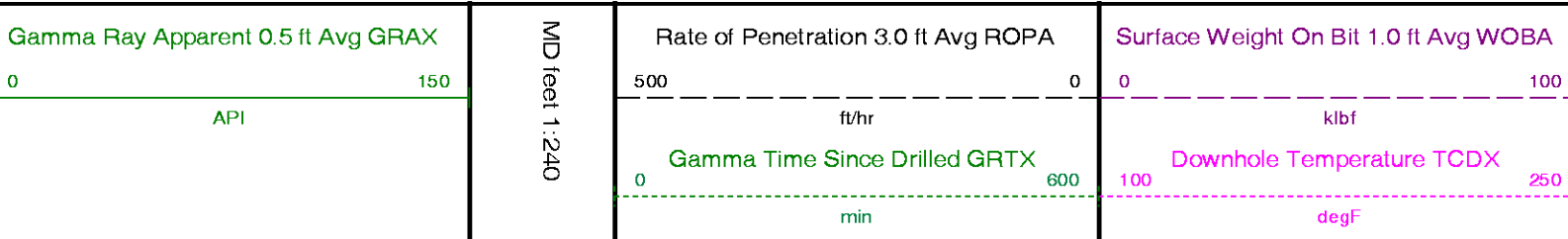
Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

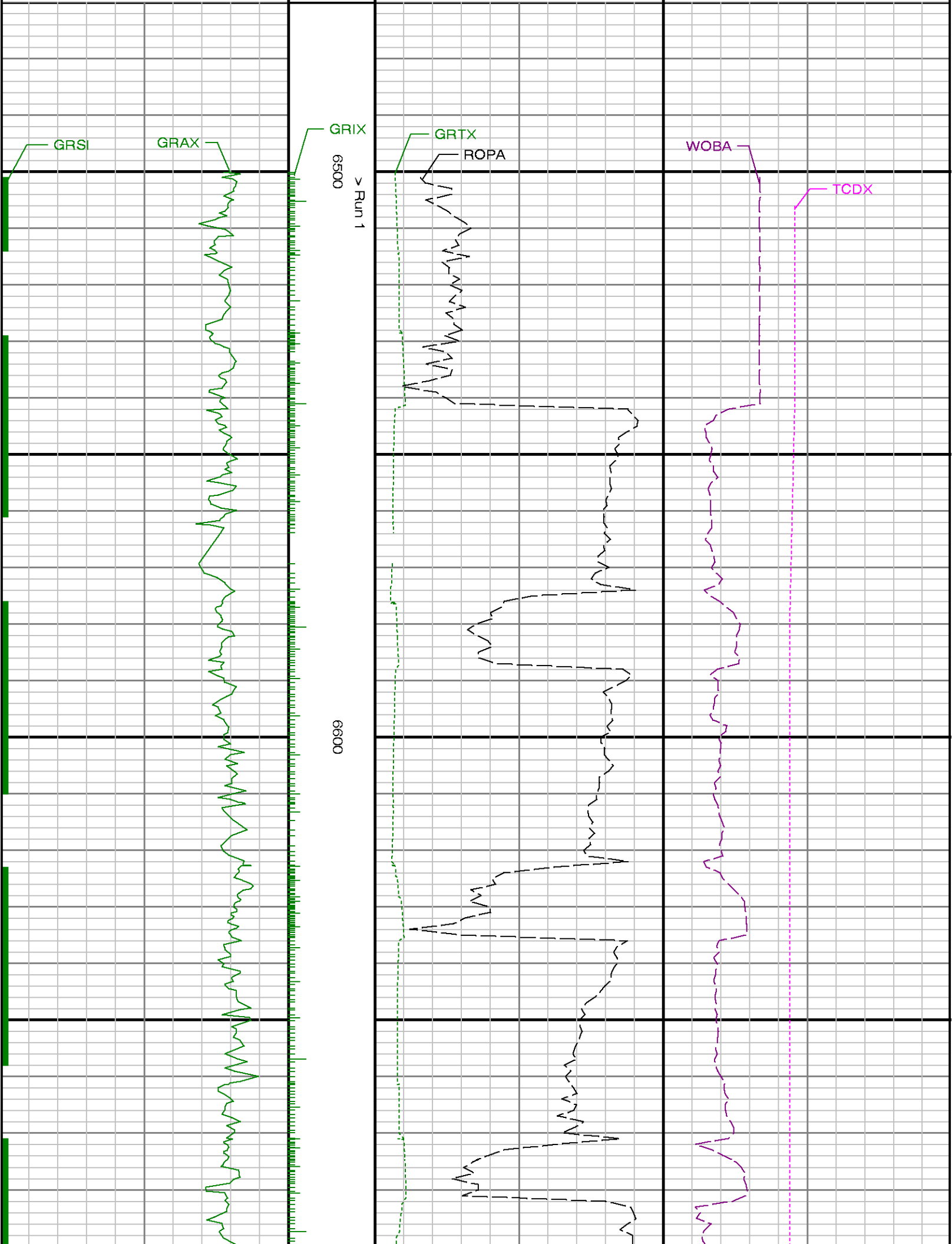
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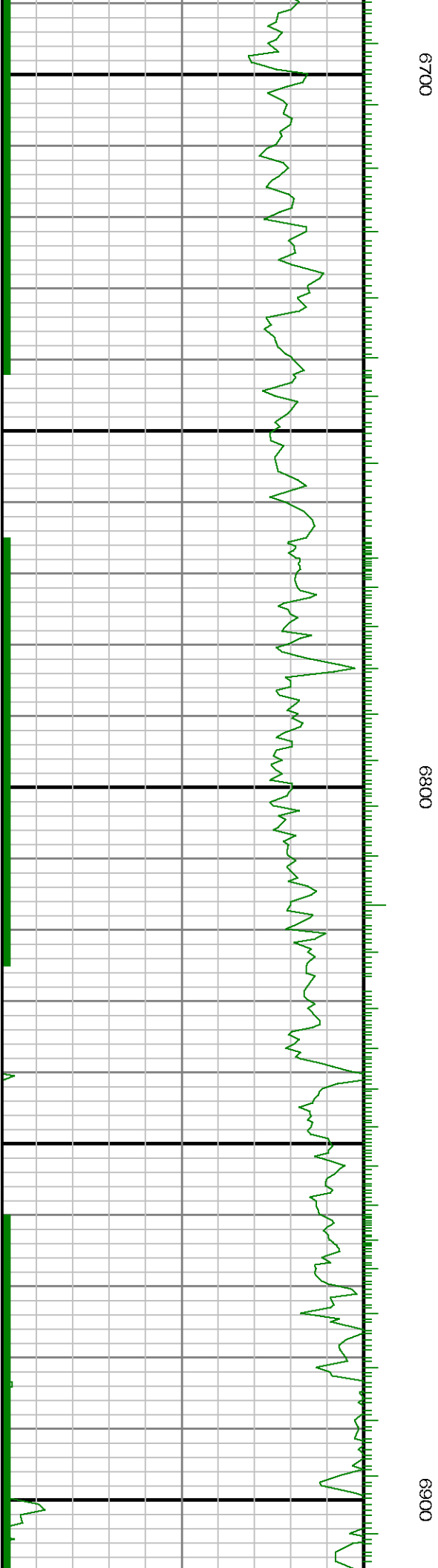
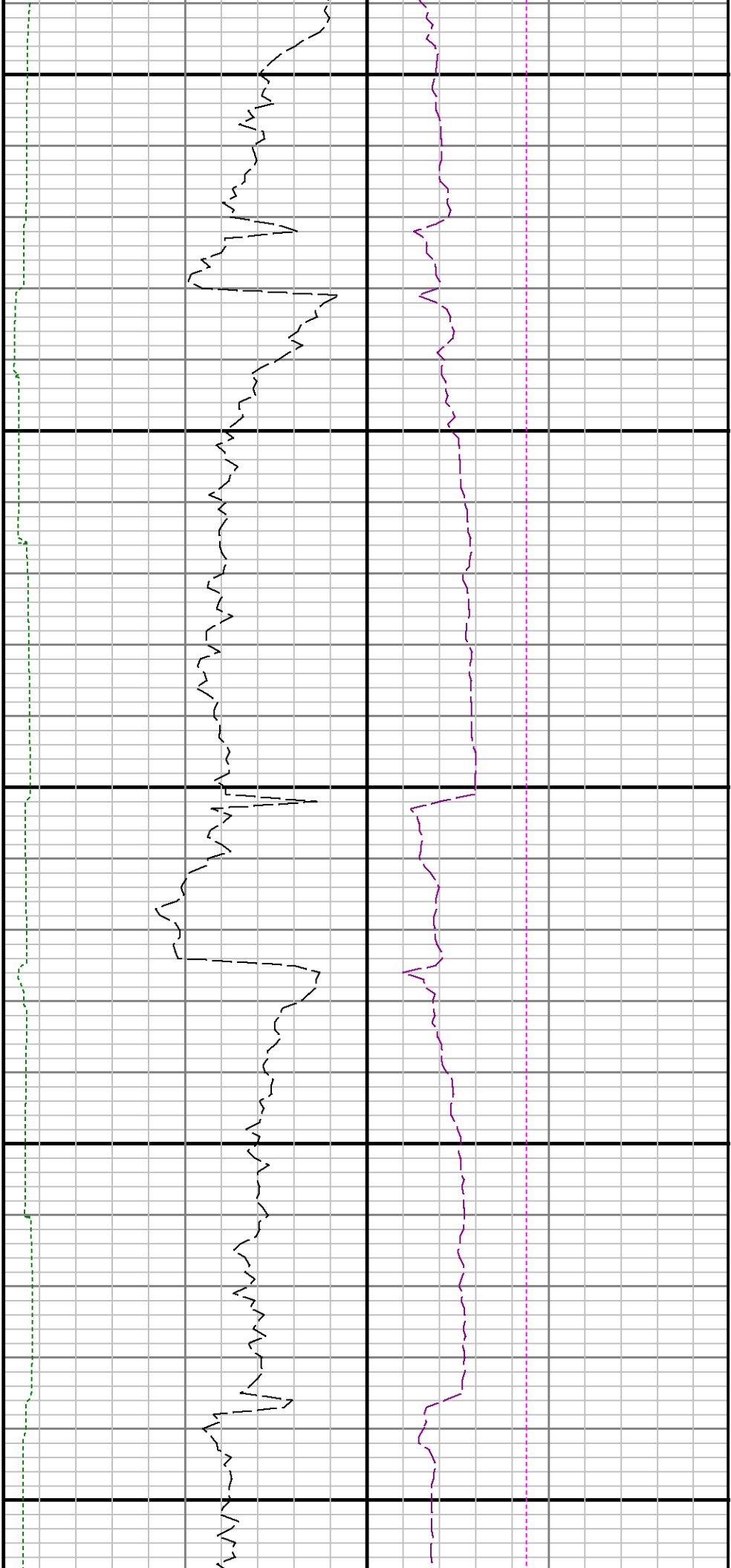
- (1) Baker Hughes INTEQ run 1 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 3/4 inch bit and steerable assembly from 1007 to 7538 feet MD (1007 to 7114 feet TVD).
- (2) Baker Hughes INTEQ run 2 utilized 4 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 6 1/8 bit and steerable assembly from 7538 to 16499 feet MD (7114 to 7158 feet TVD)
- (3) Depth measurements 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.
- (4) A sliding indicator is shown to the right edge of track 1 as a heavy line.

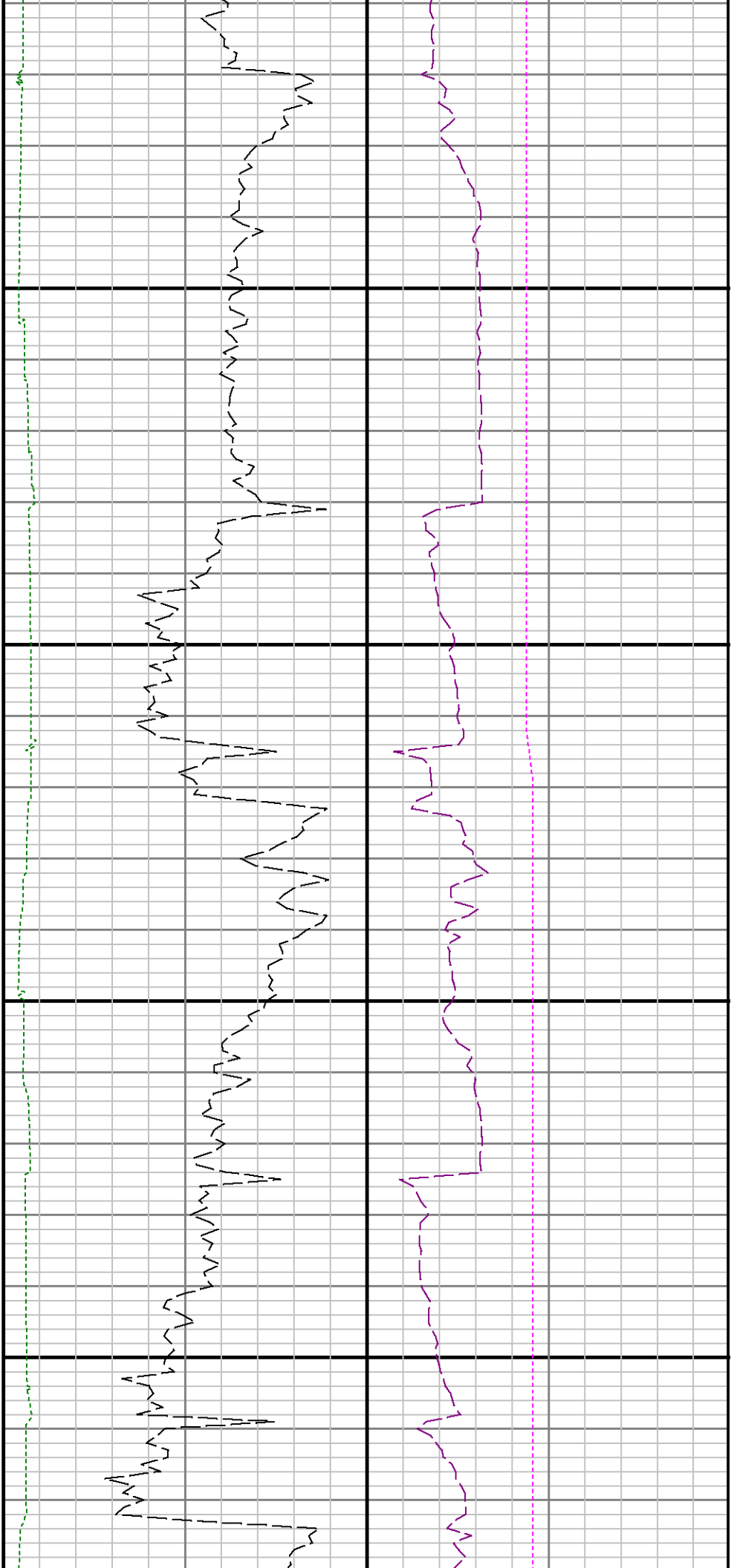


Company : Anadarko
 Well : Barefoot State 40N-36HZ
 Interval : 6470.00 - 16520.00 feet
 Created : 26/May/2014 8:08:55 AM



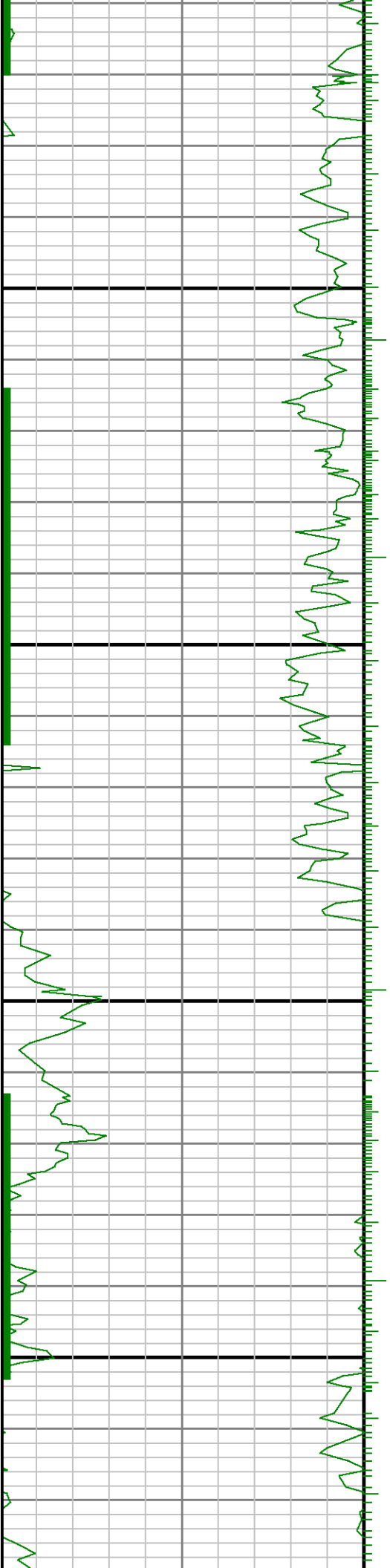


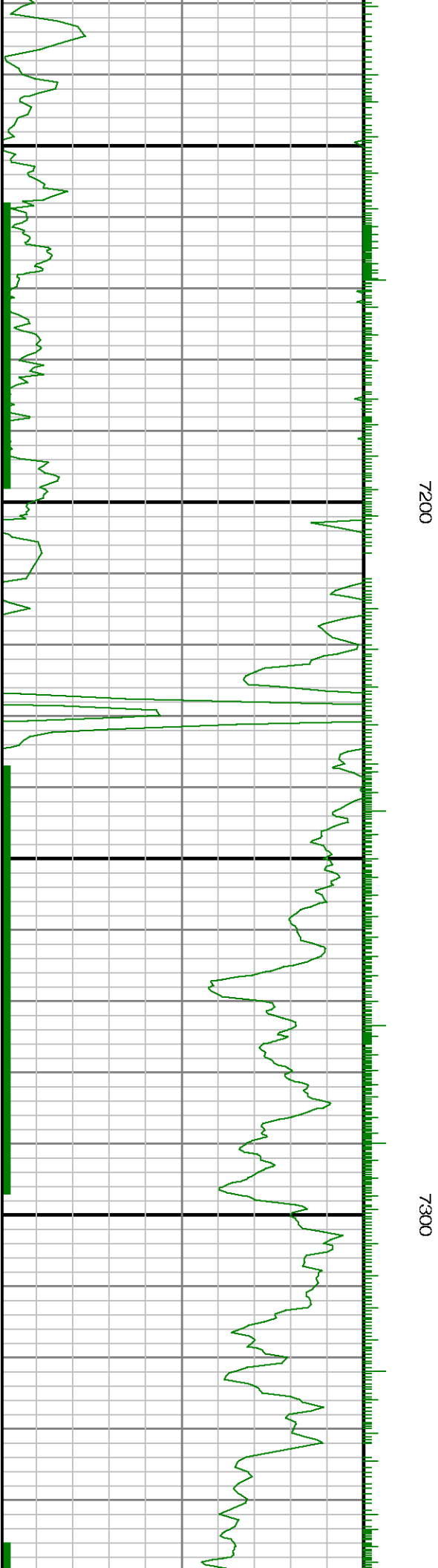
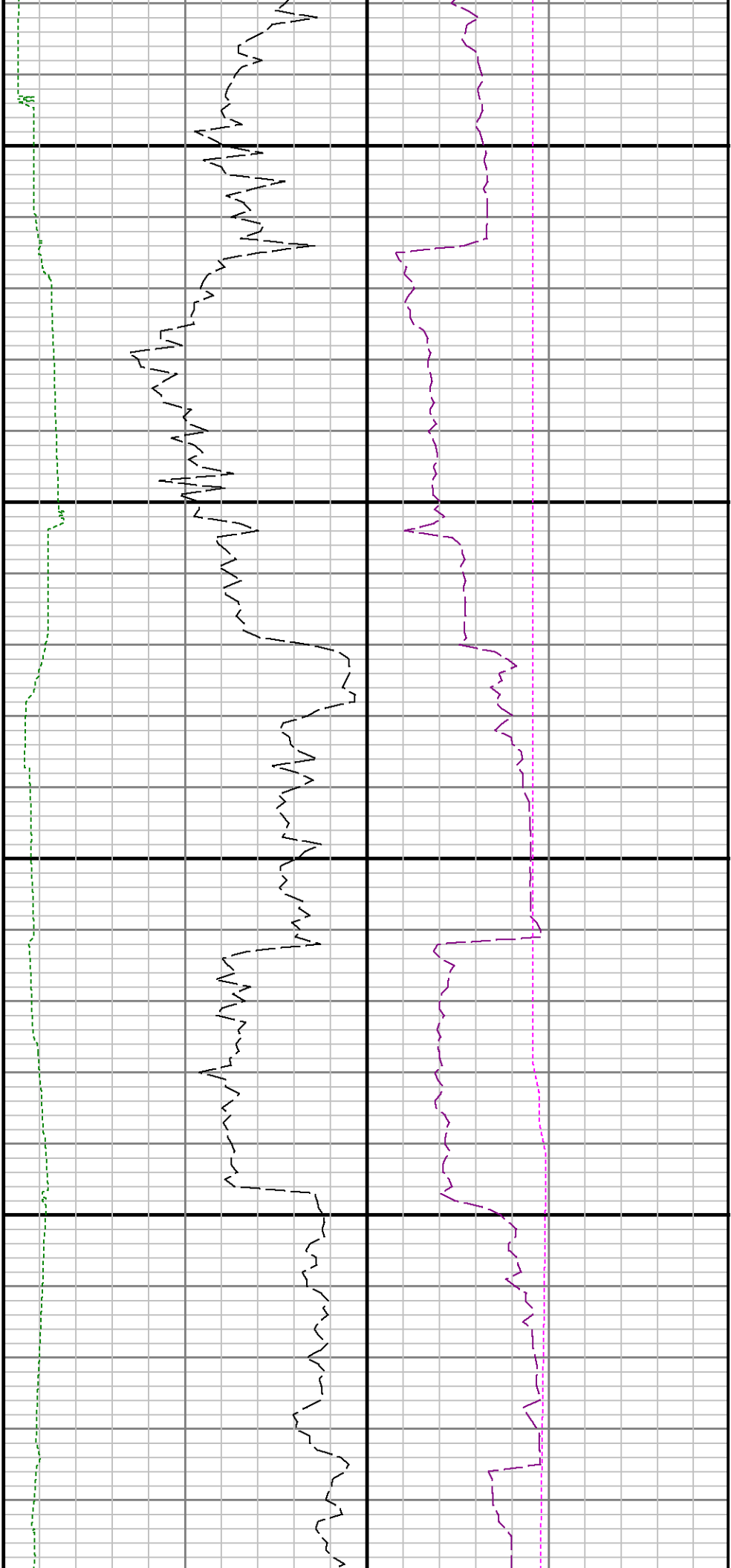


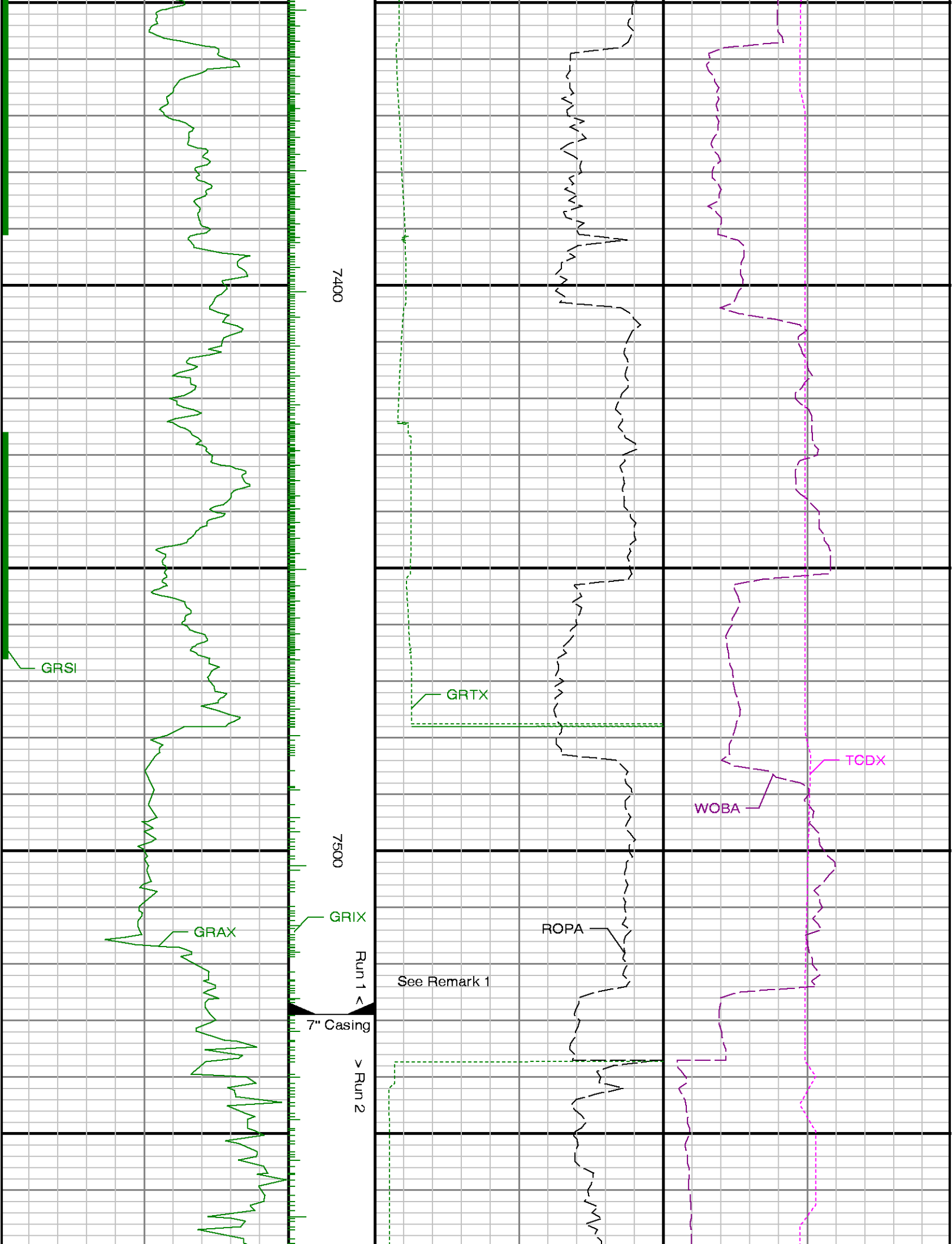


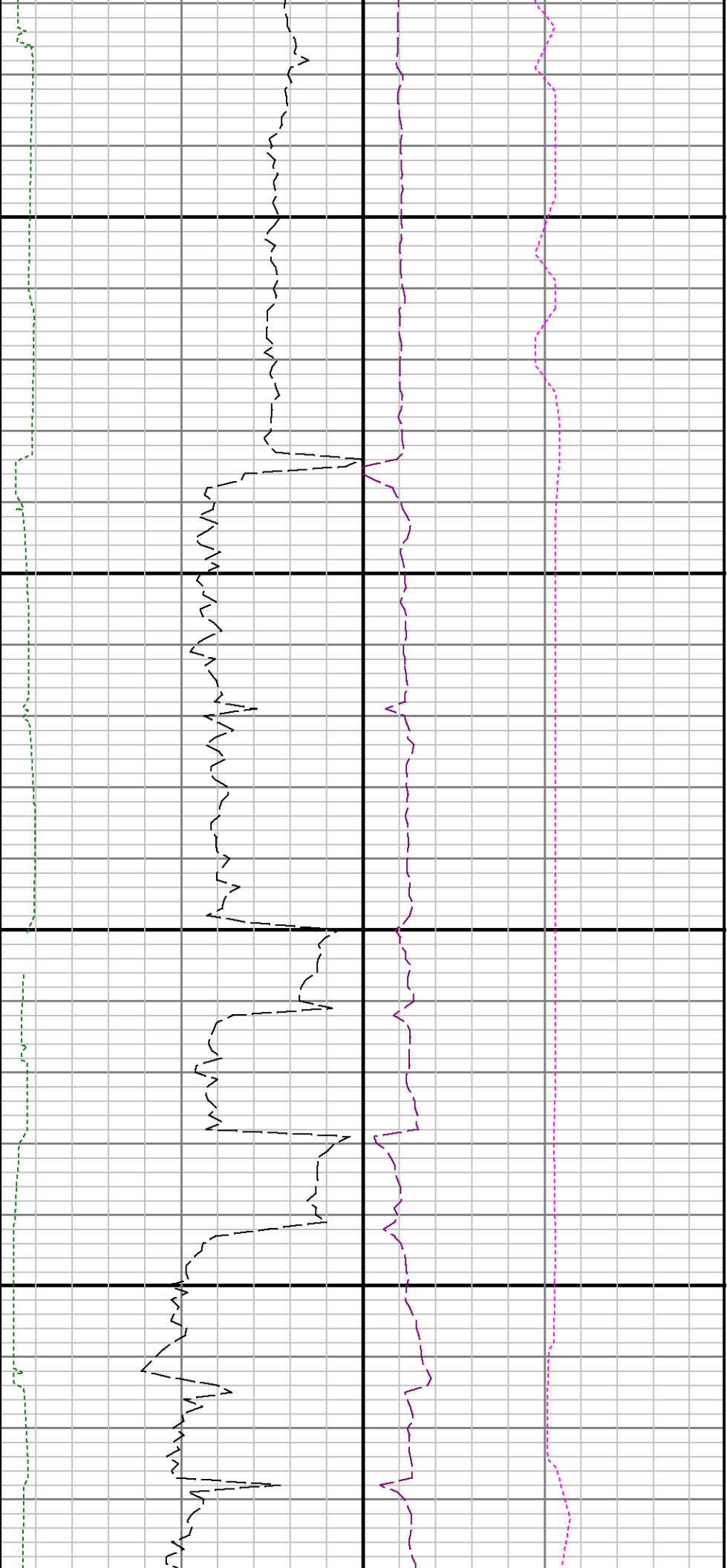
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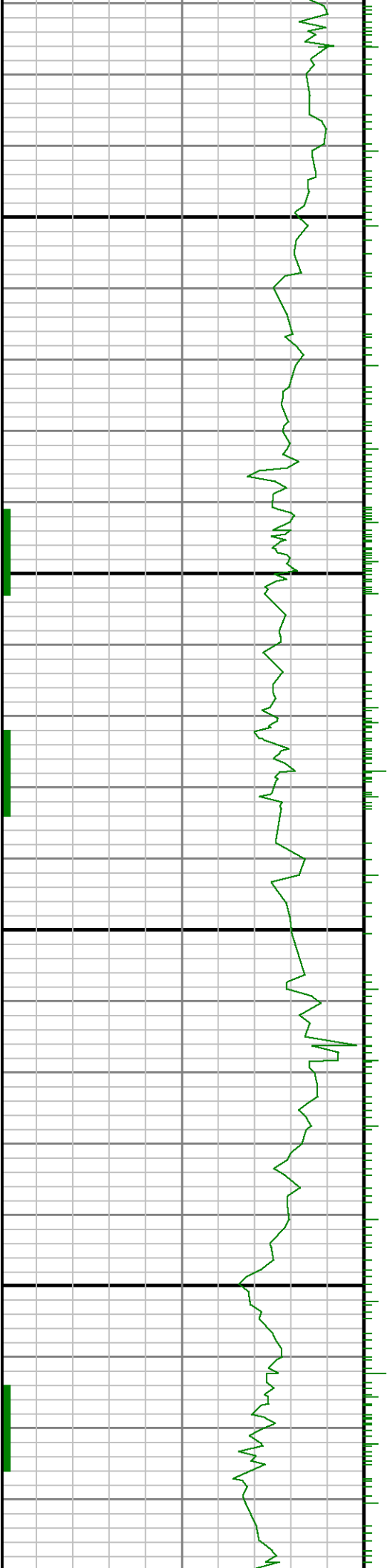


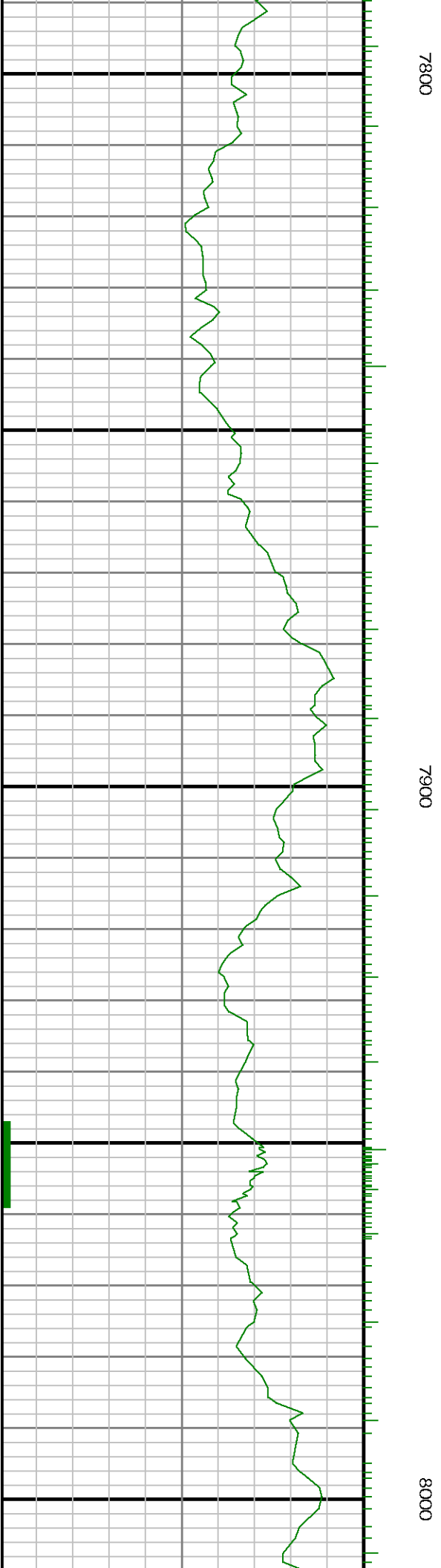
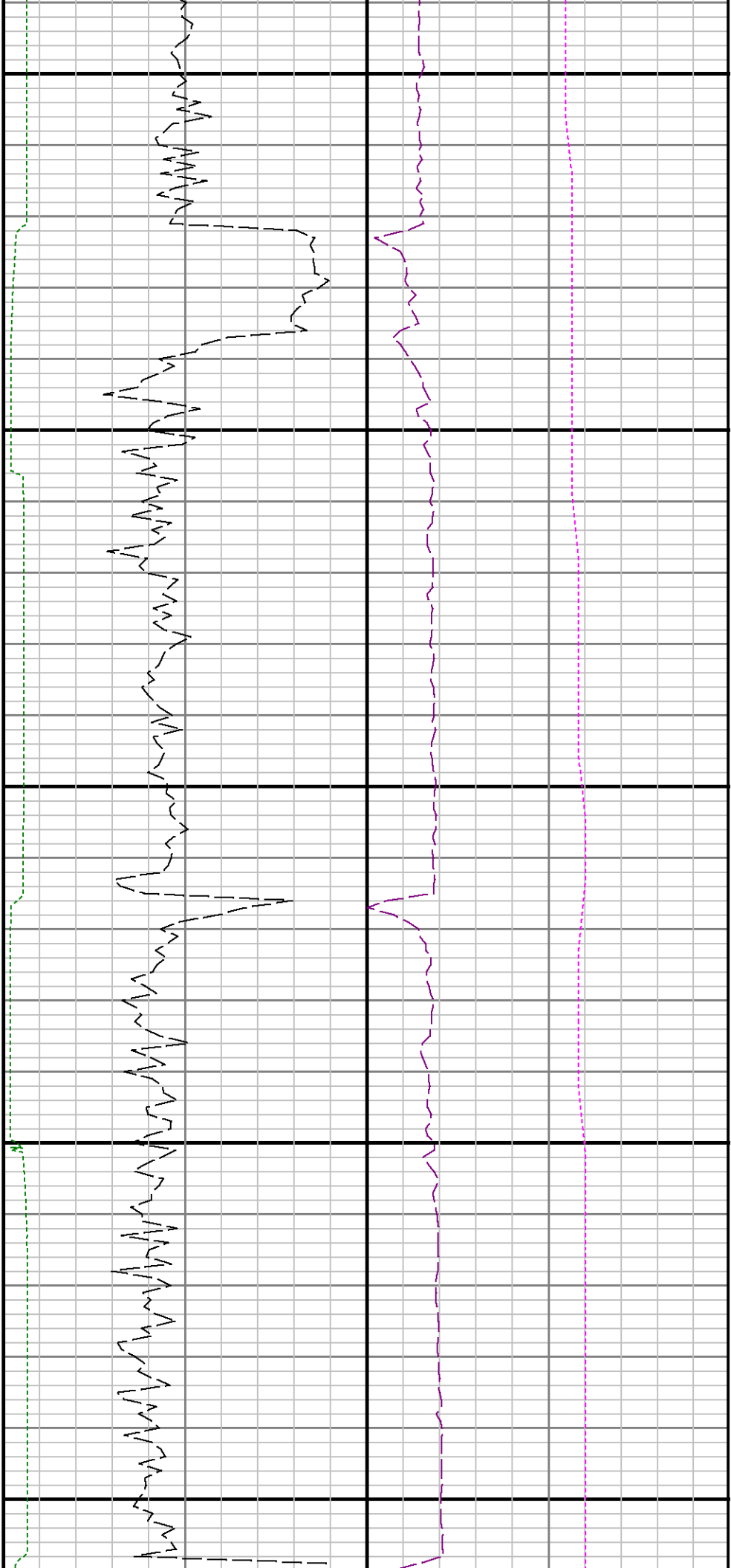


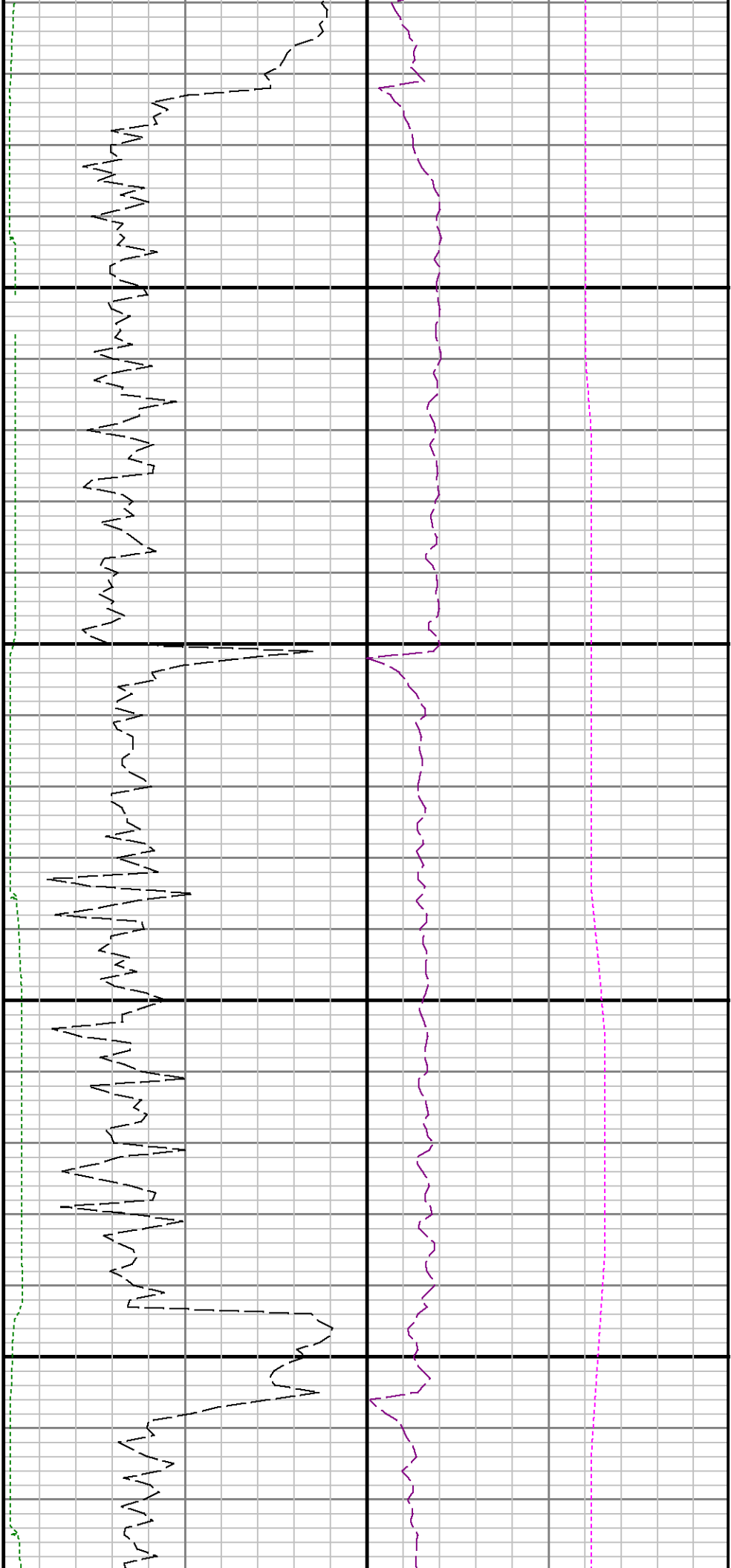


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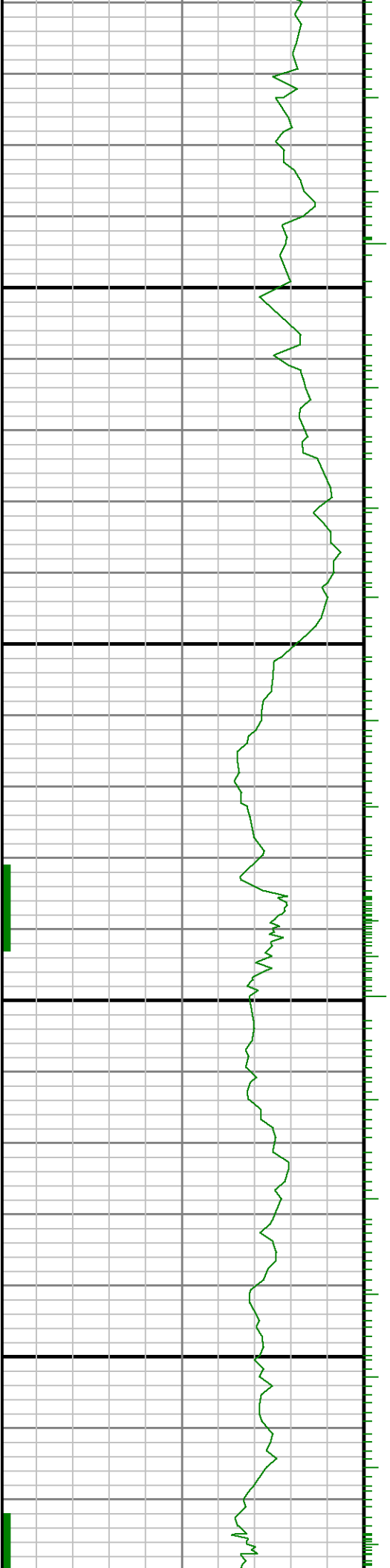


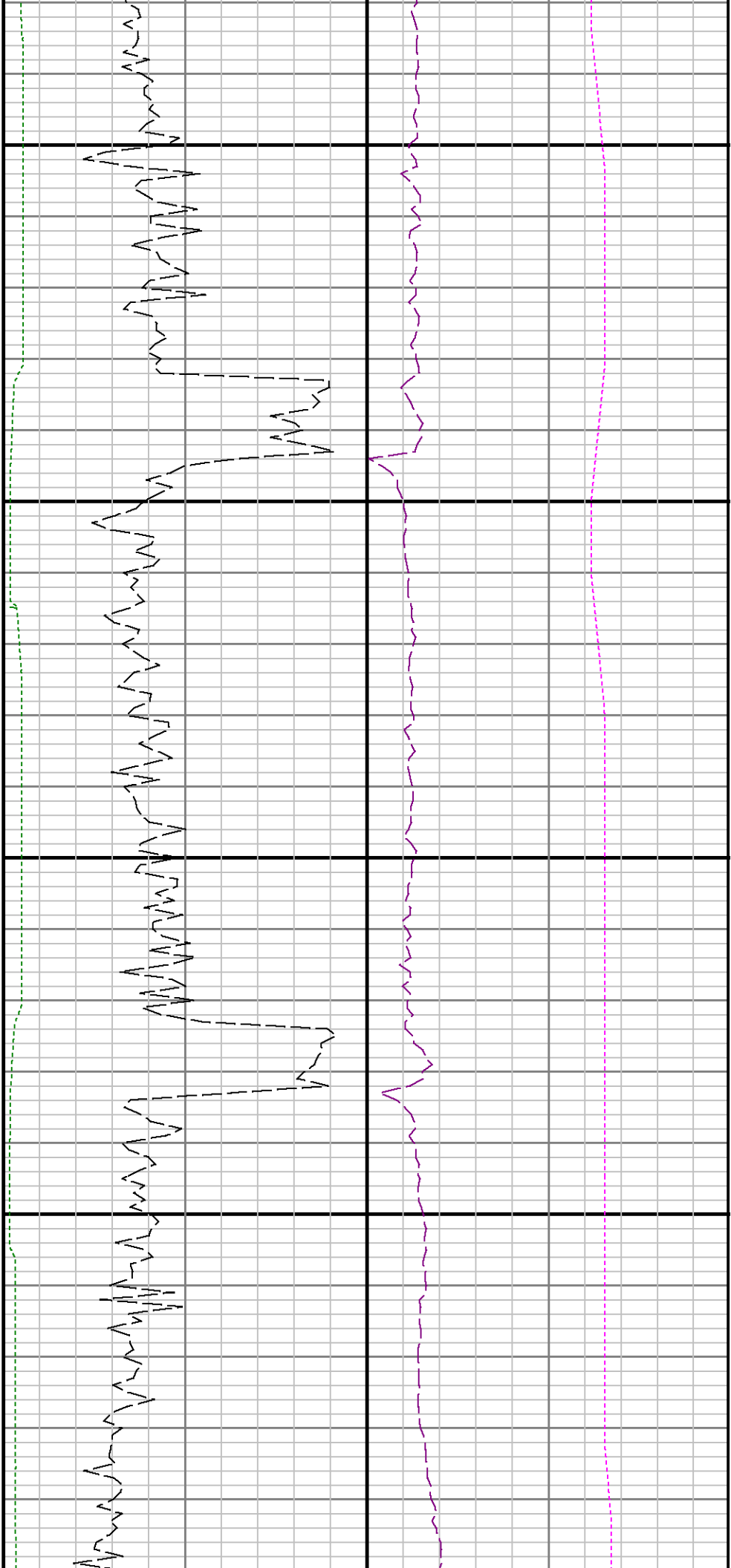




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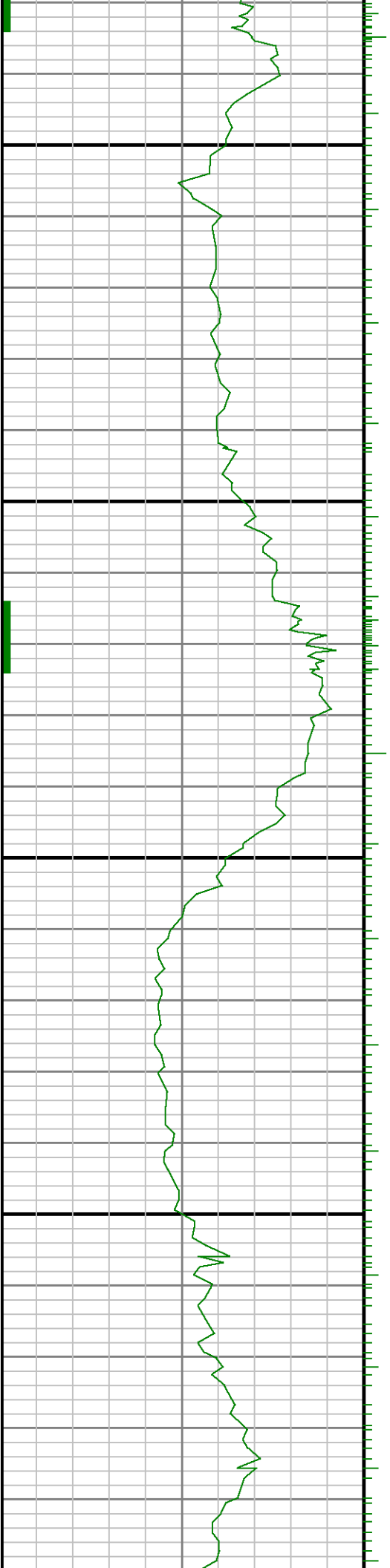
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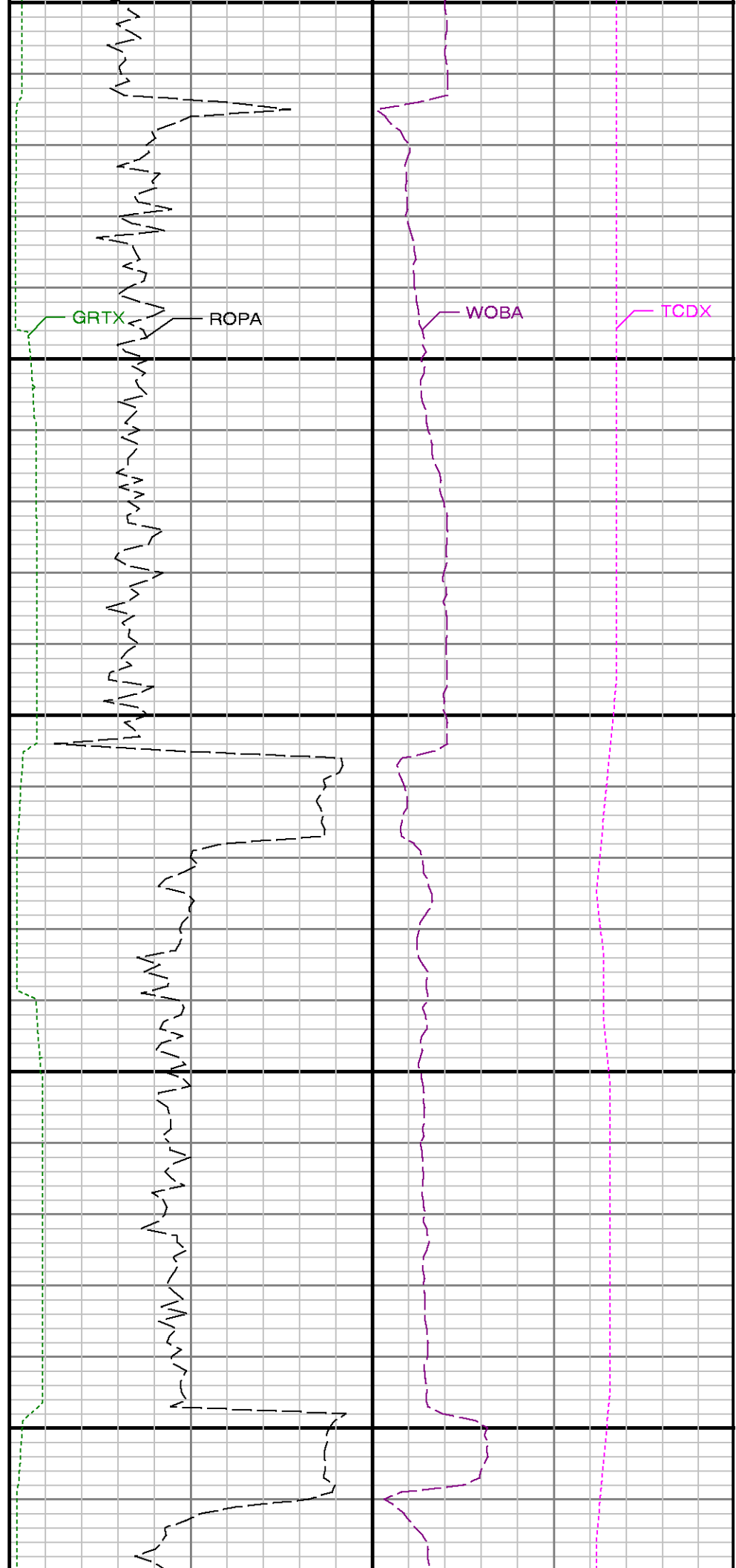
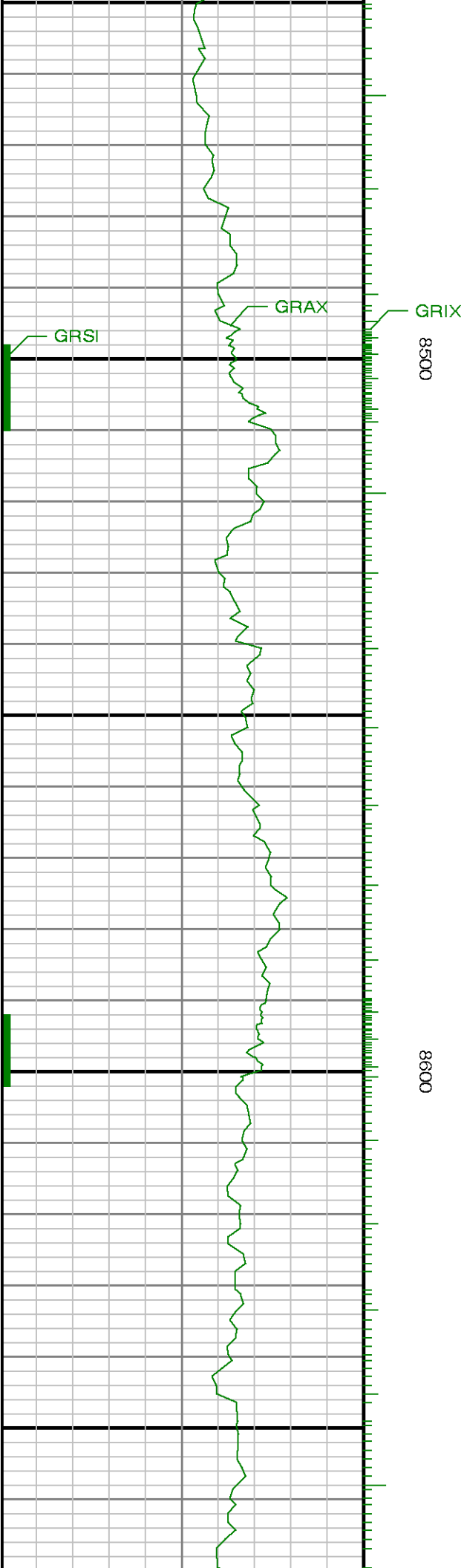


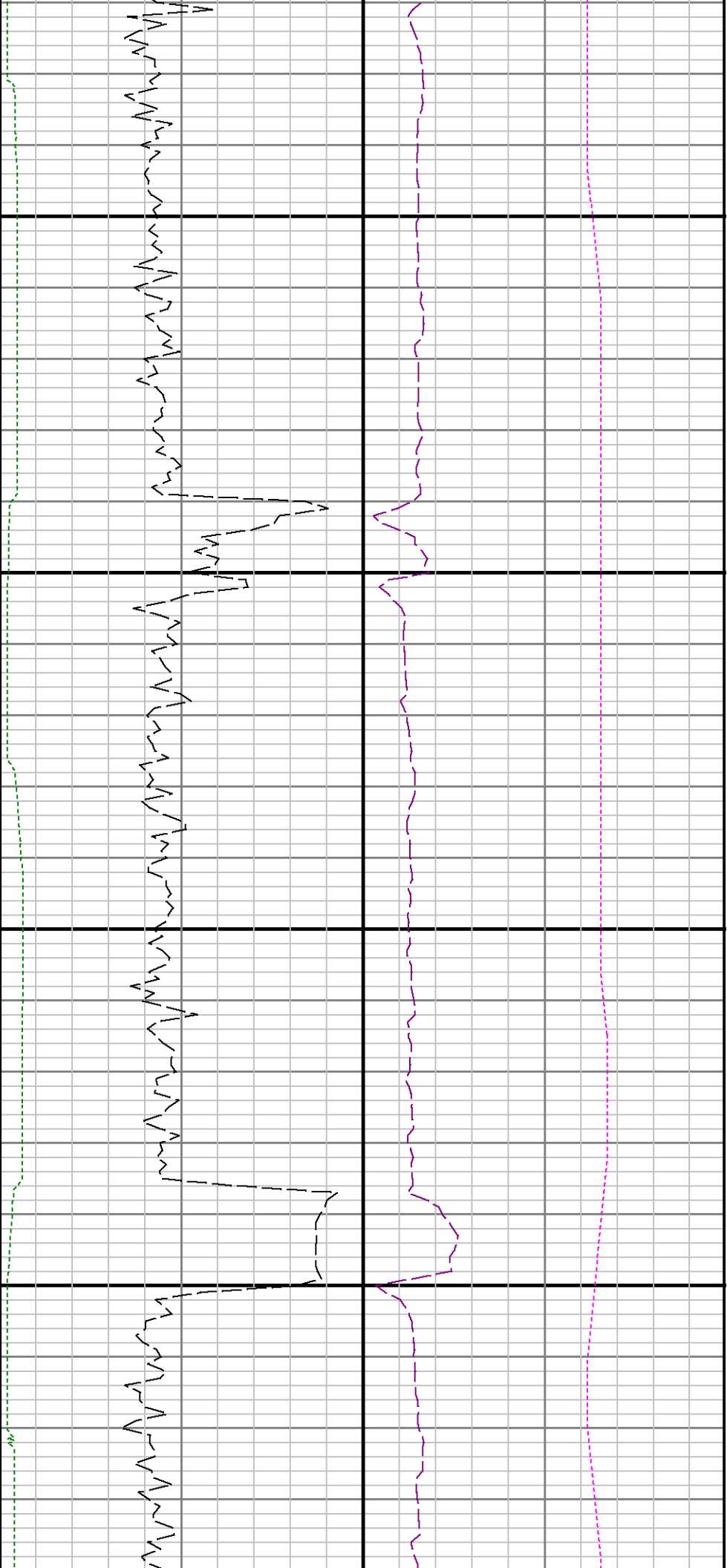


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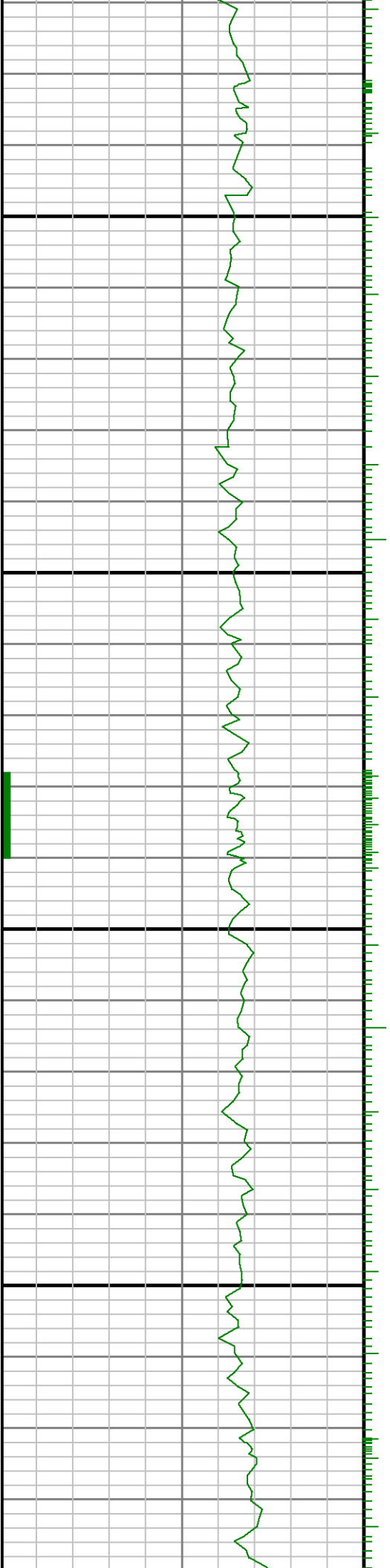


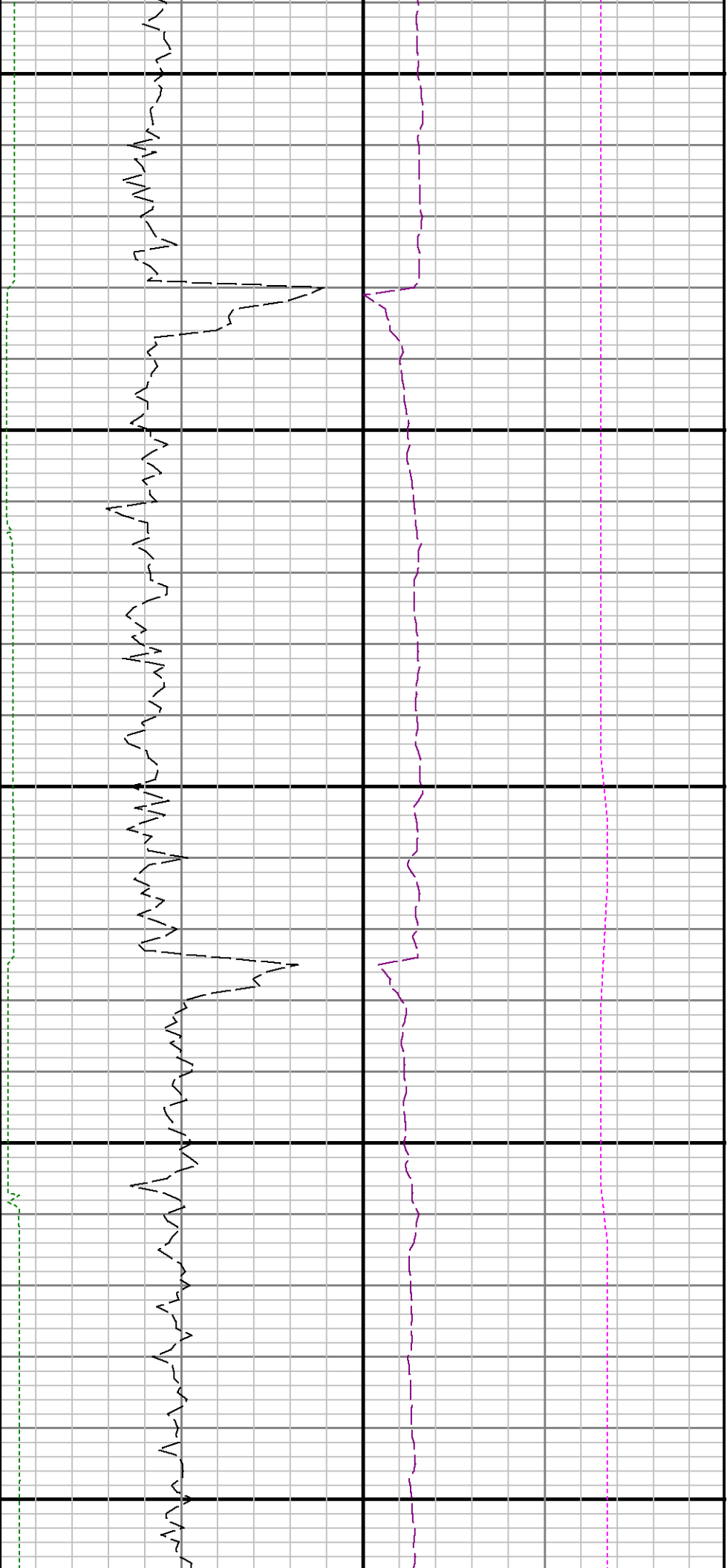




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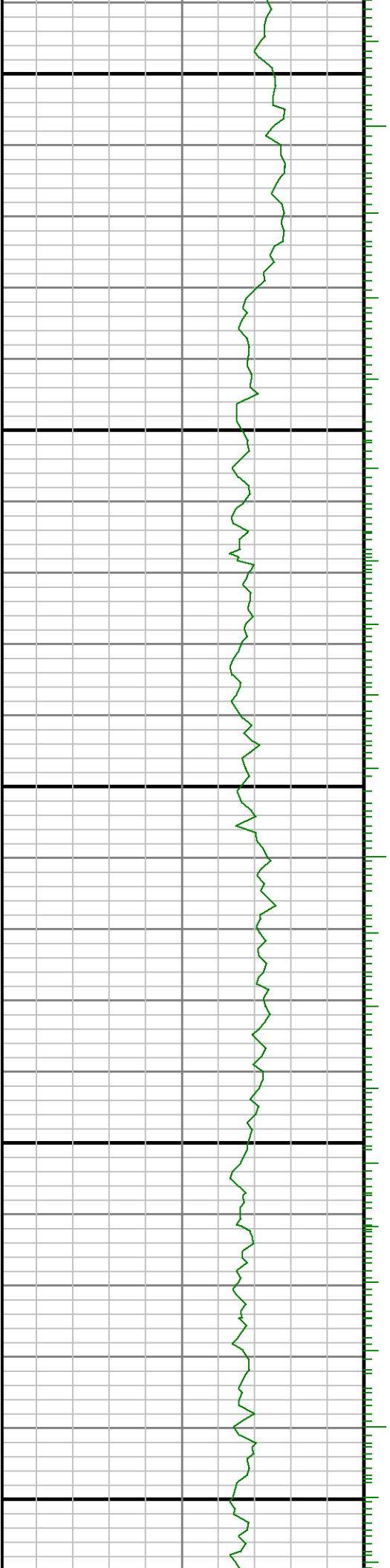




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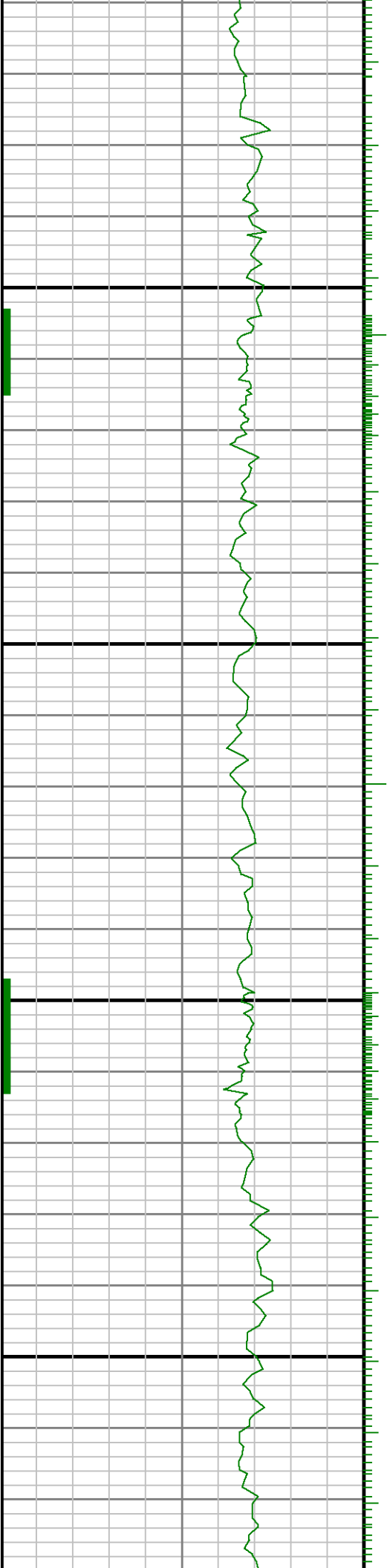
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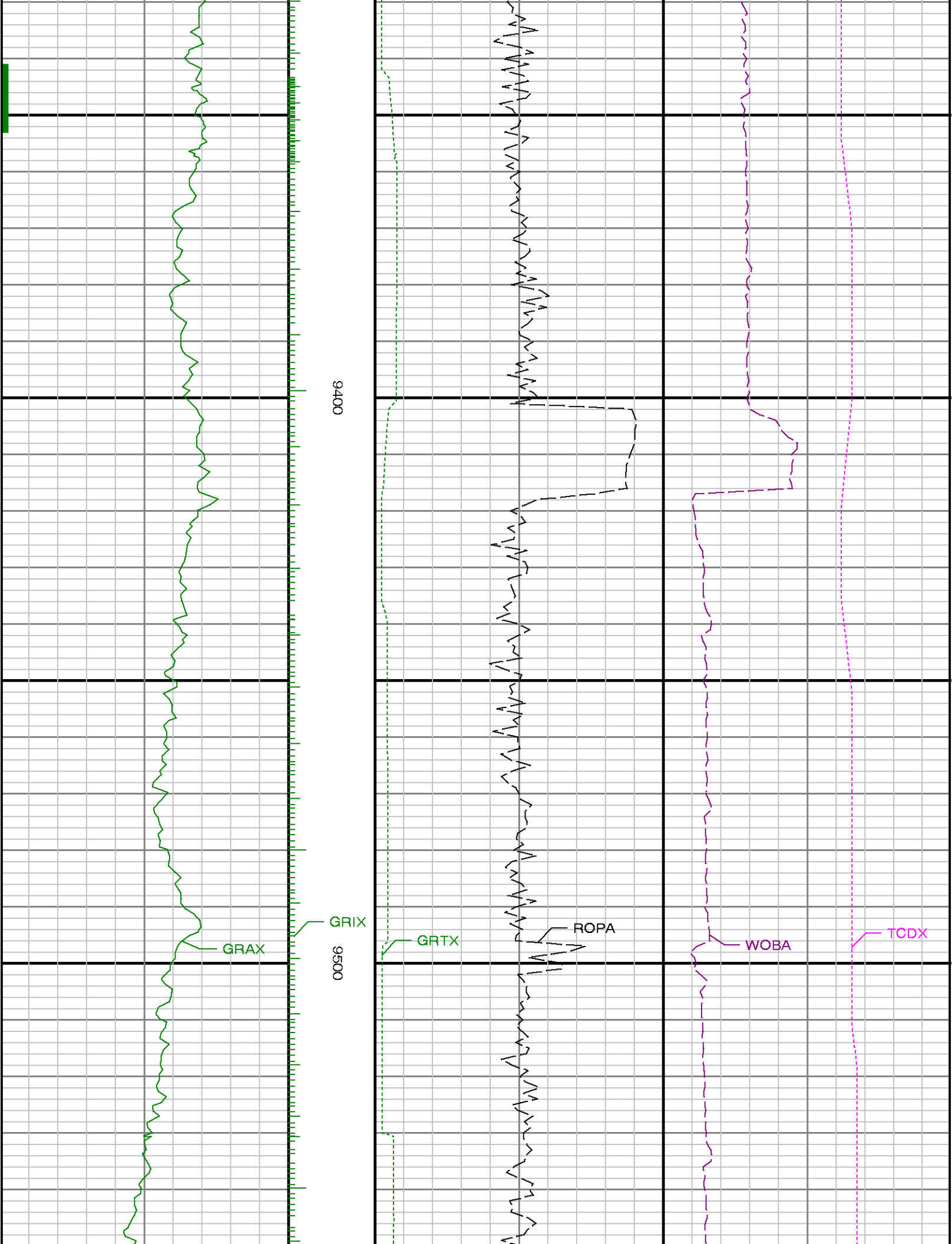


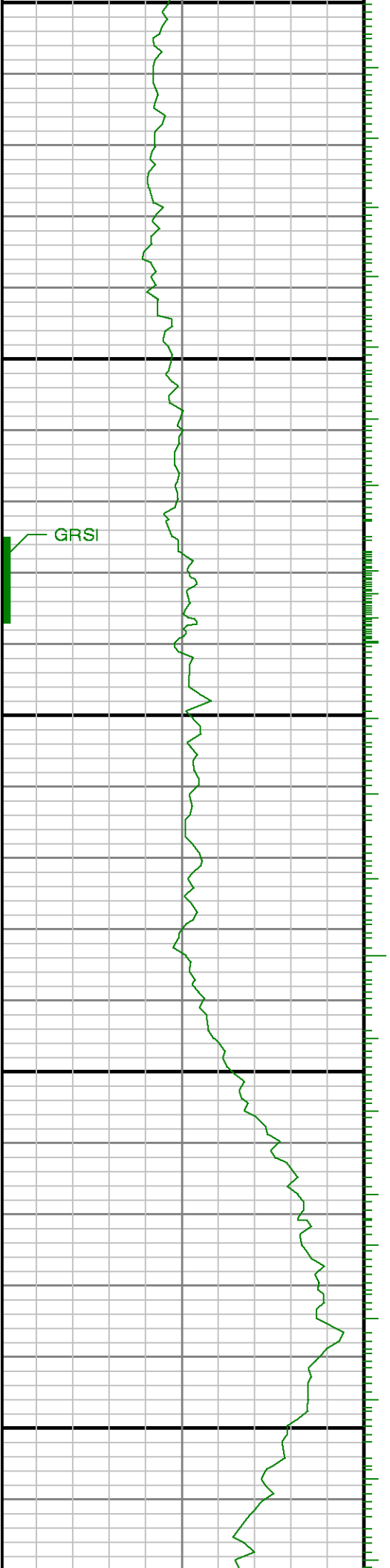


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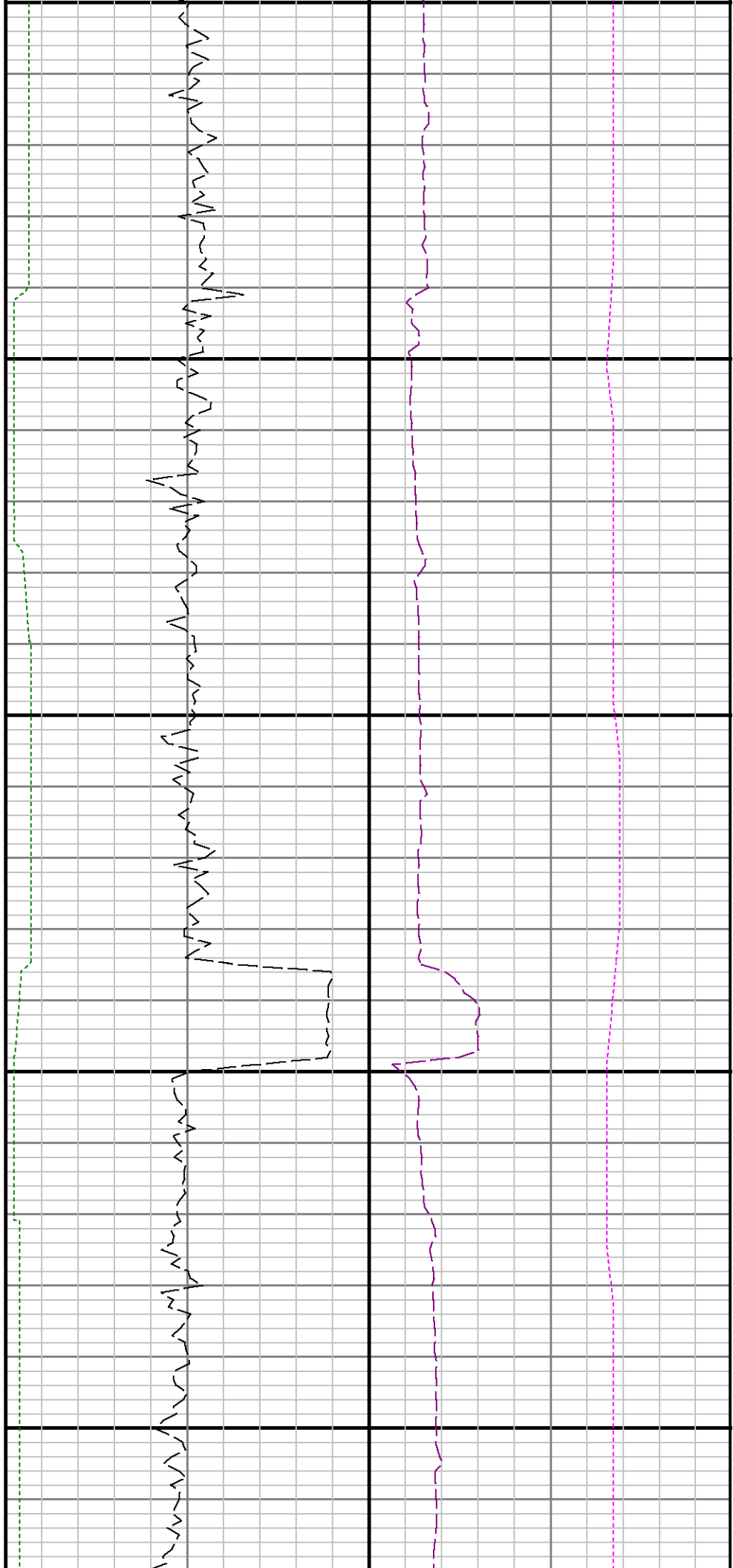


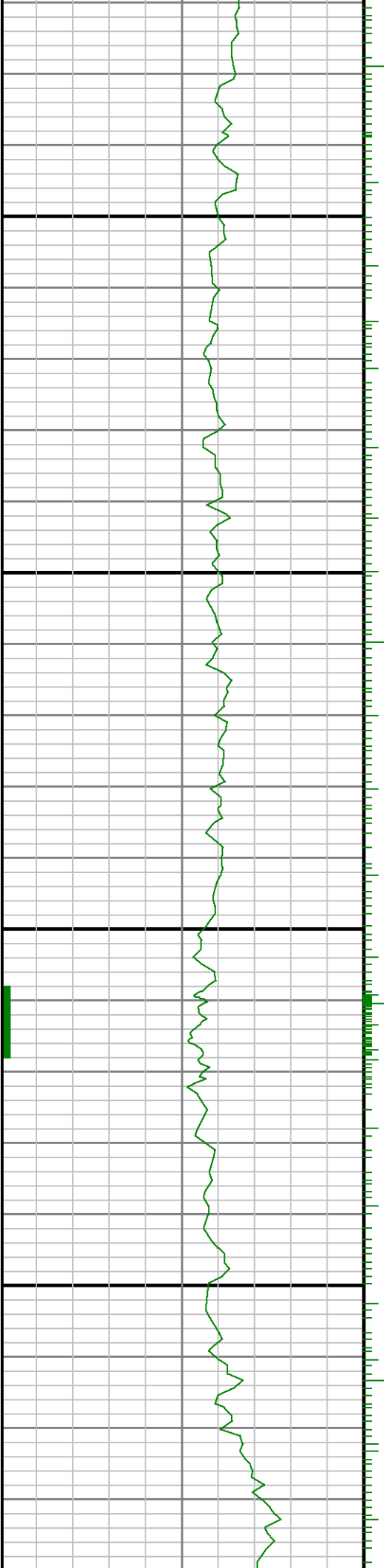




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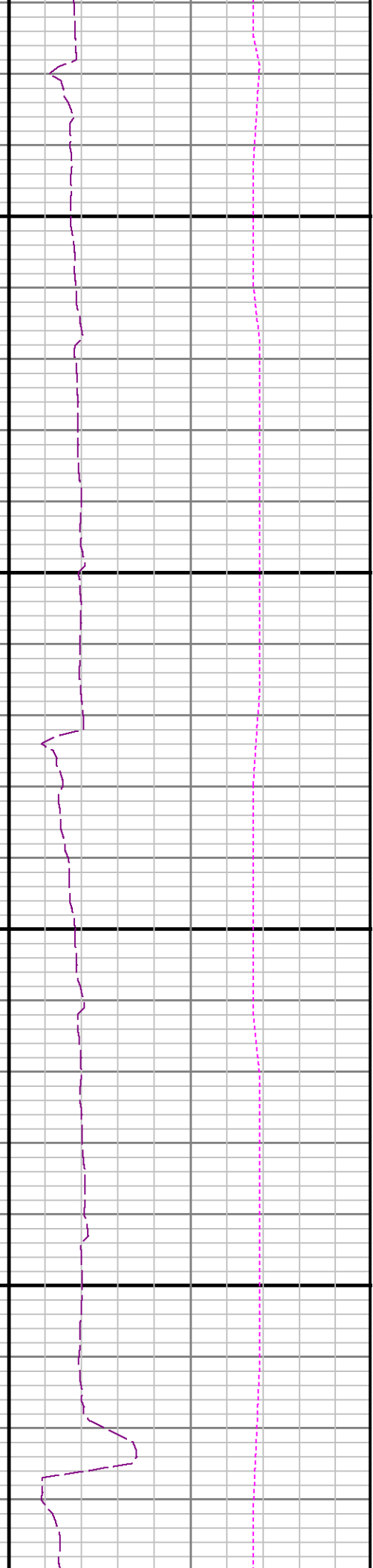
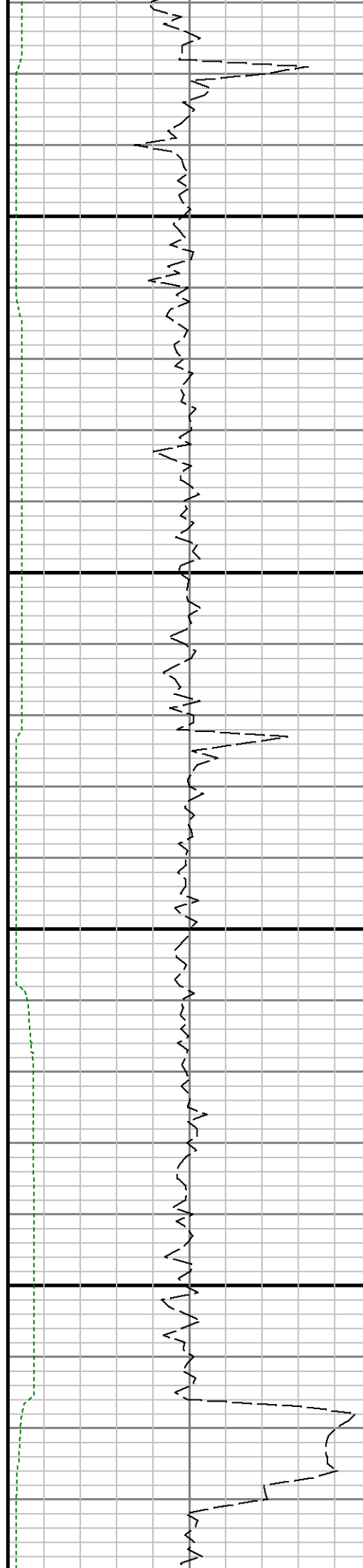
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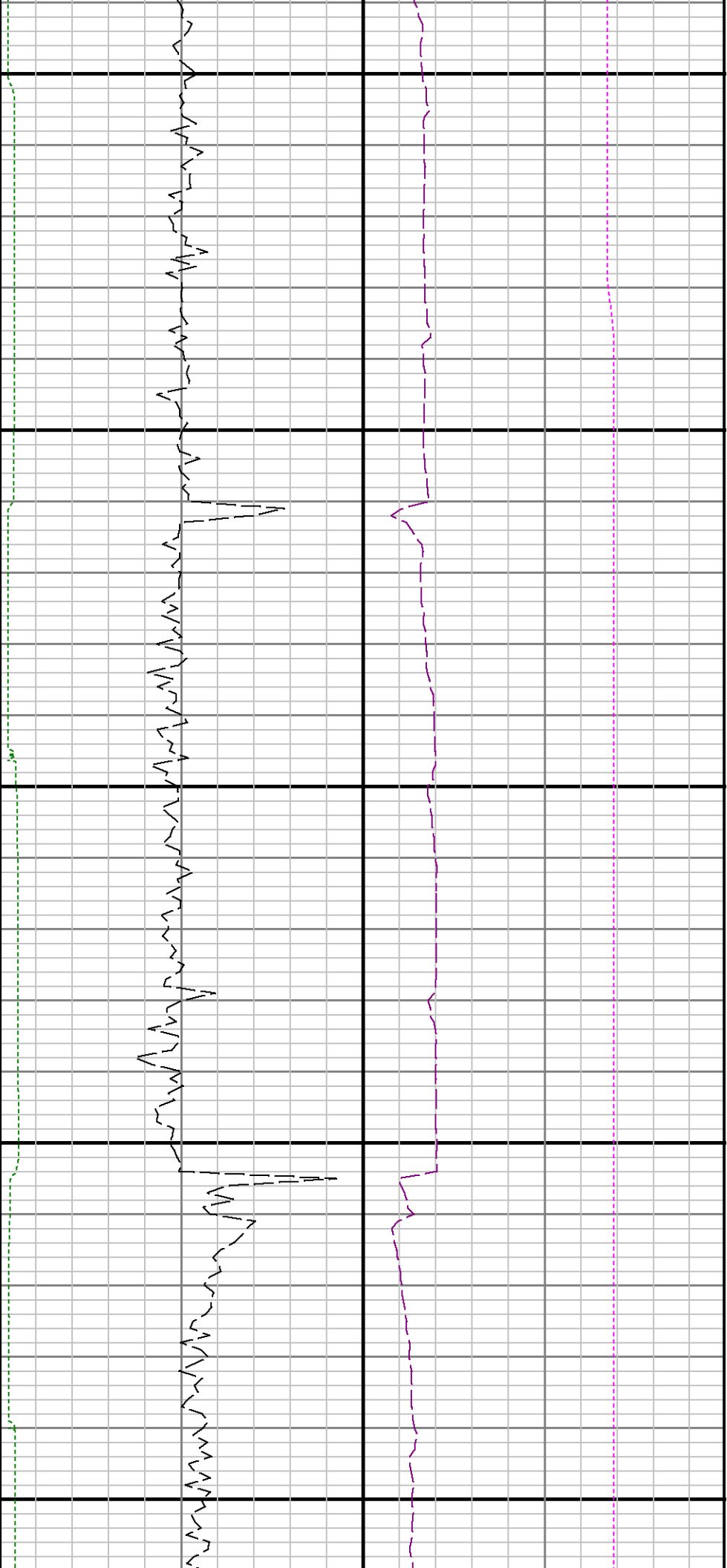




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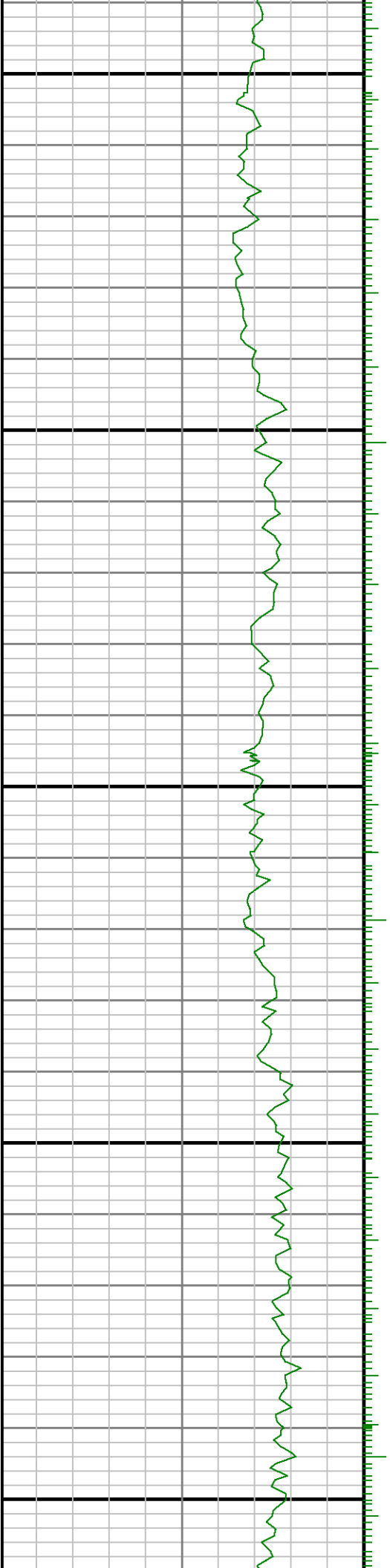




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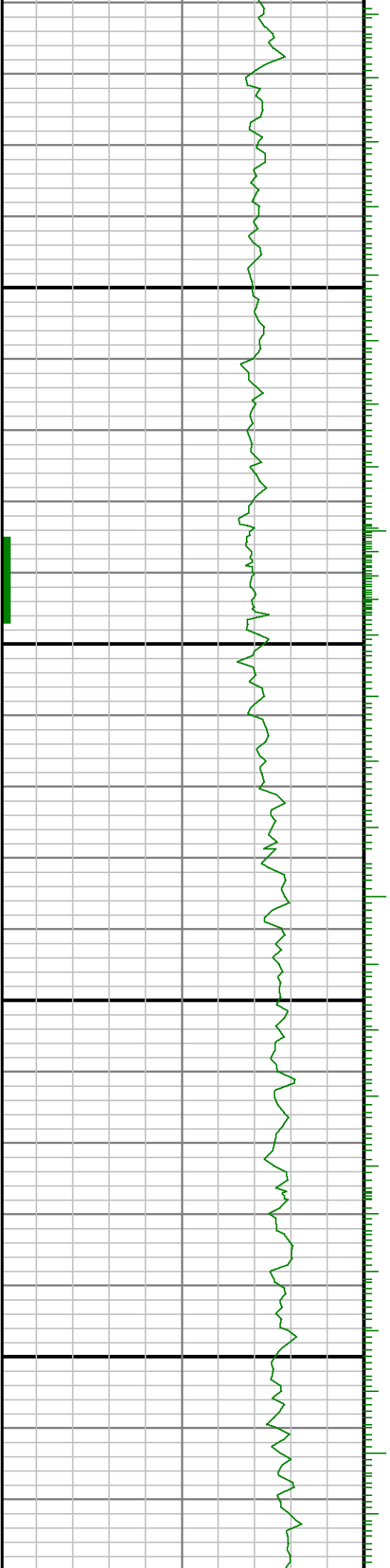
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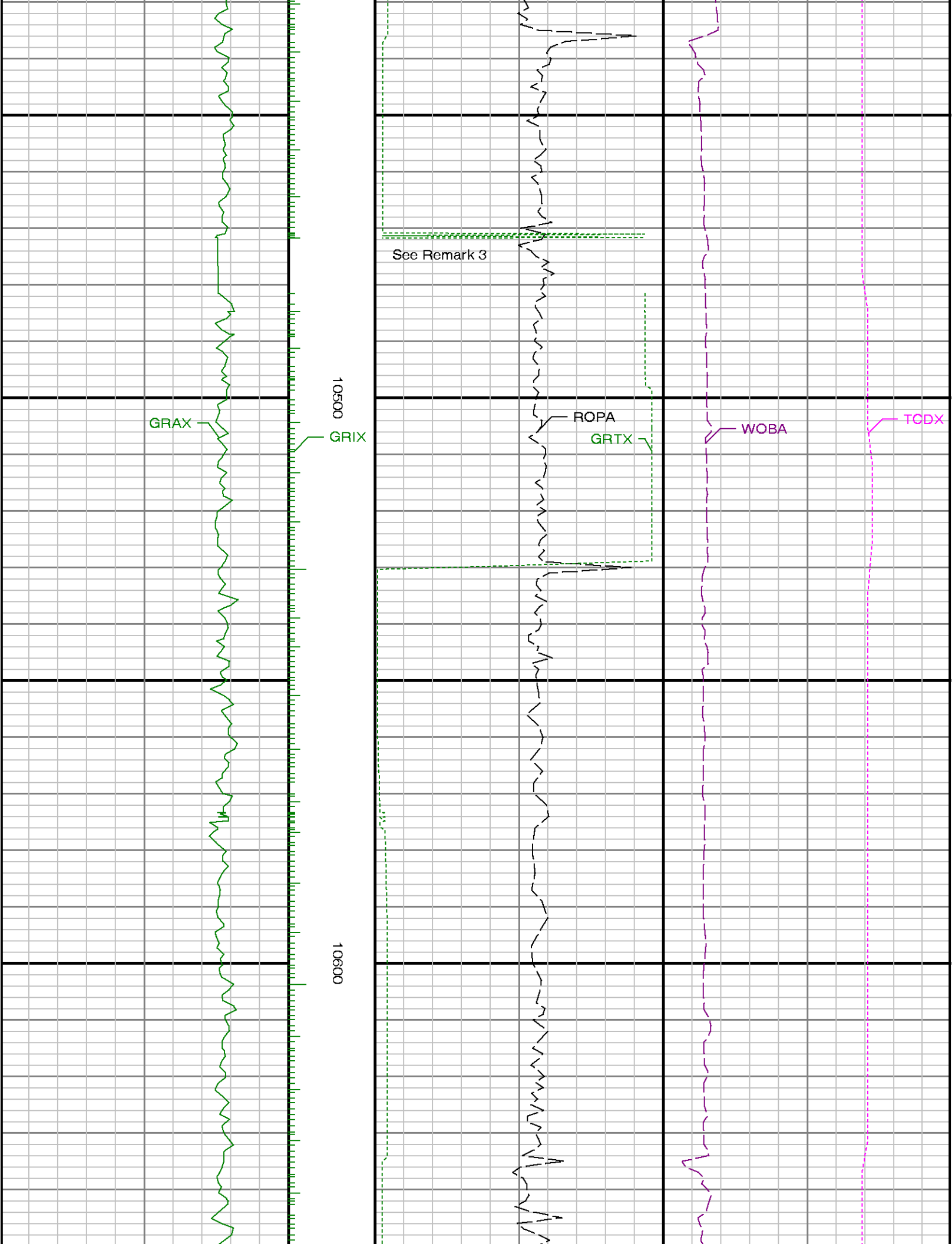




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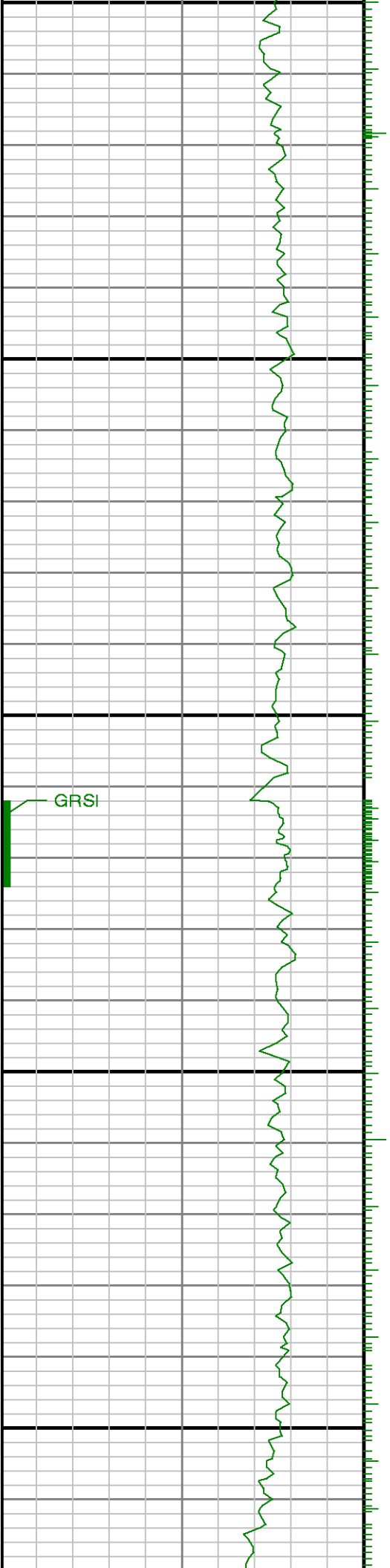






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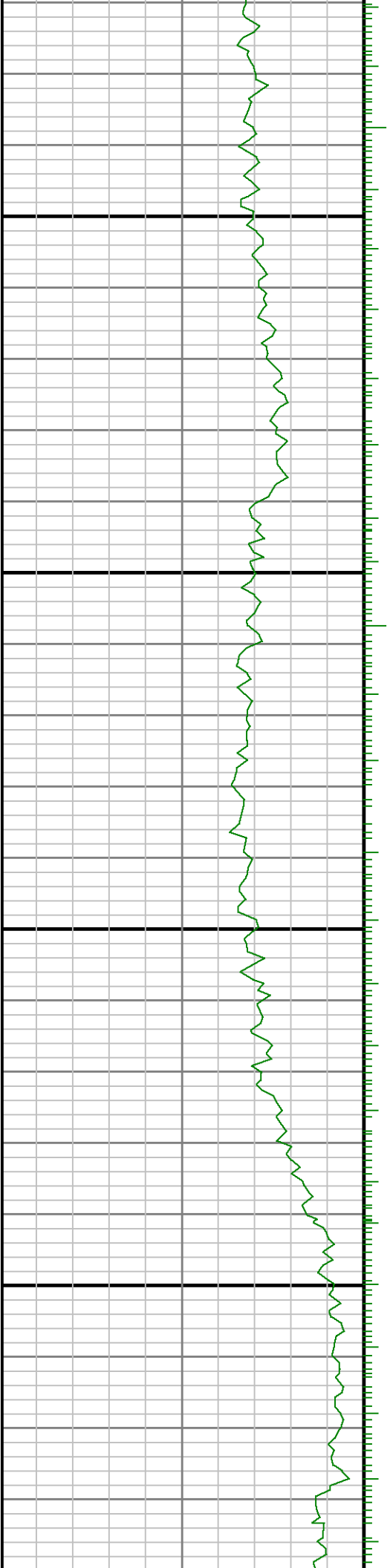
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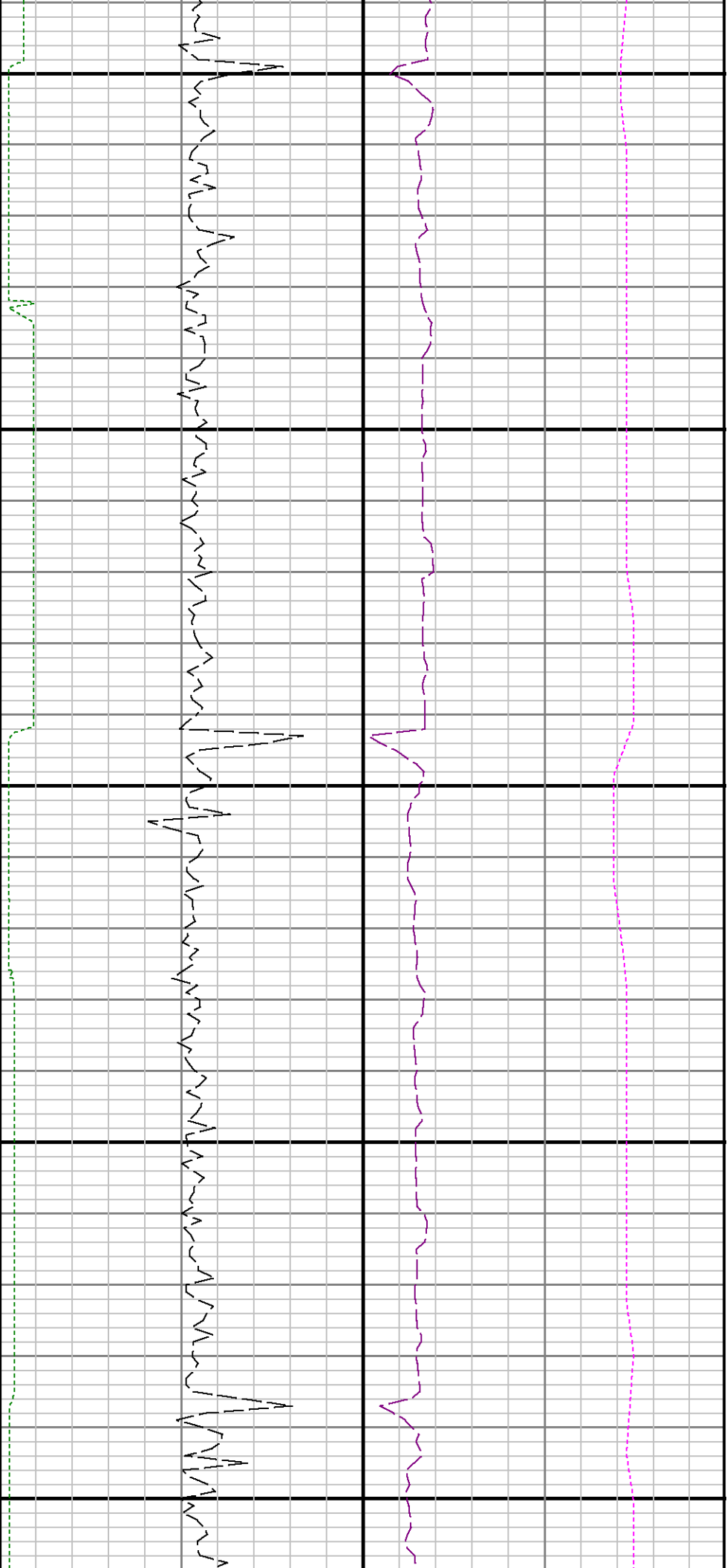




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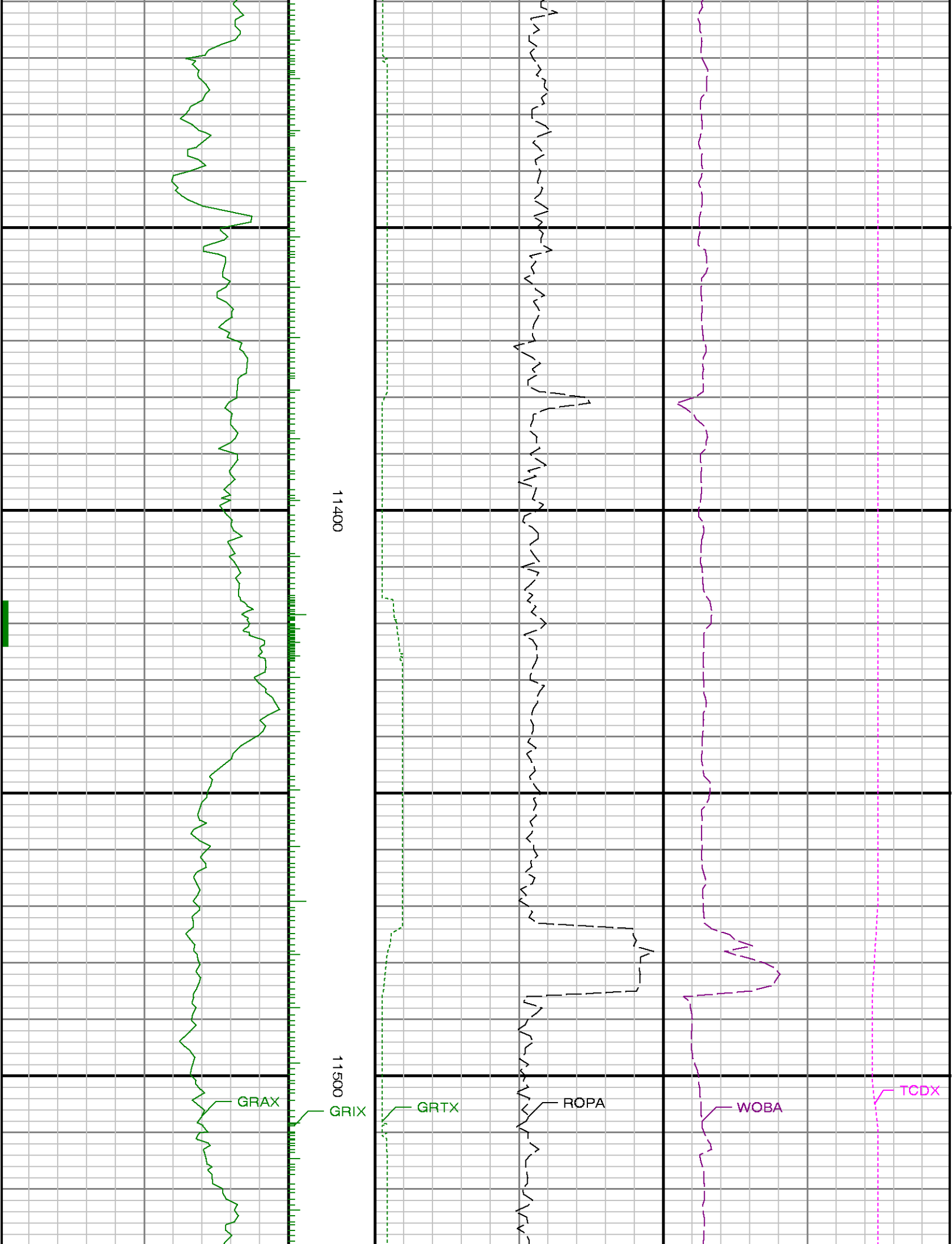


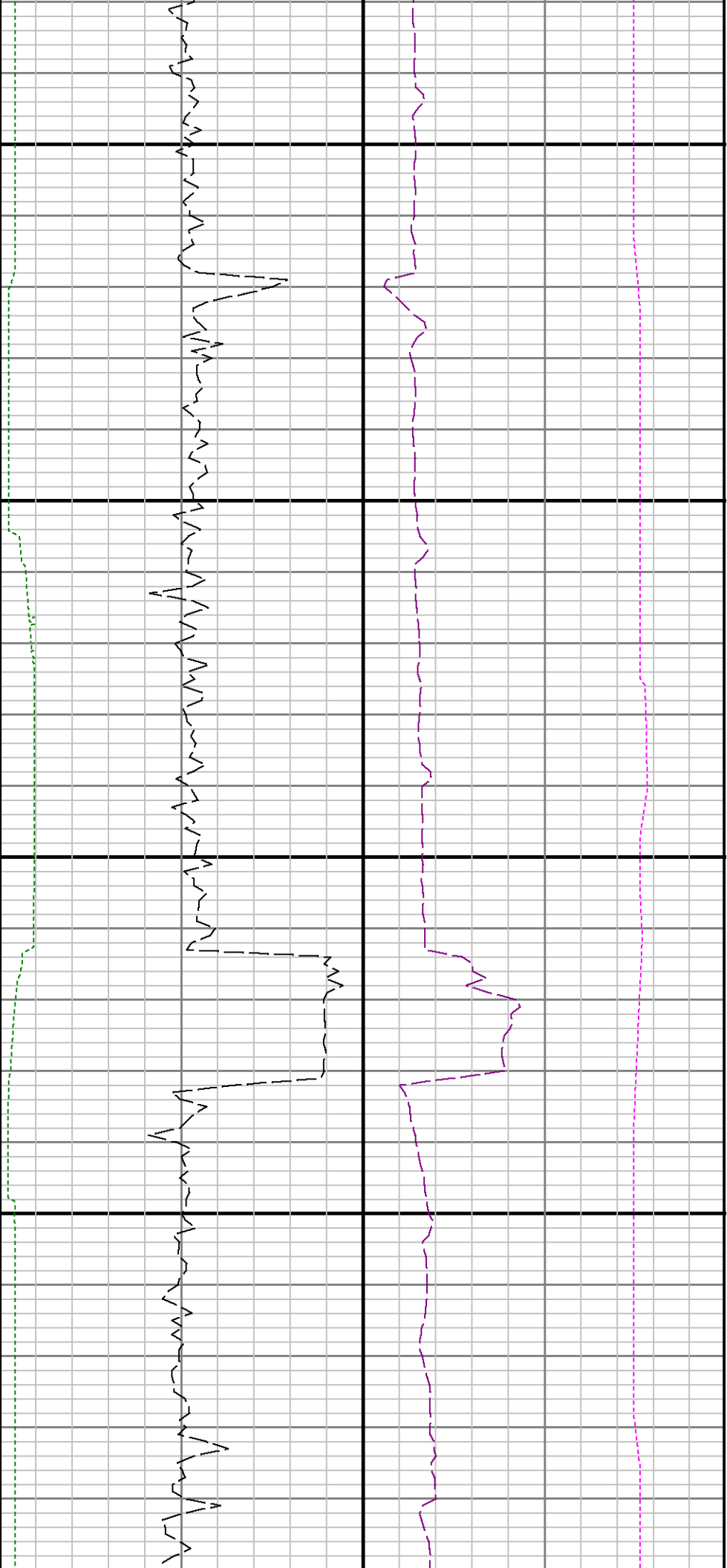


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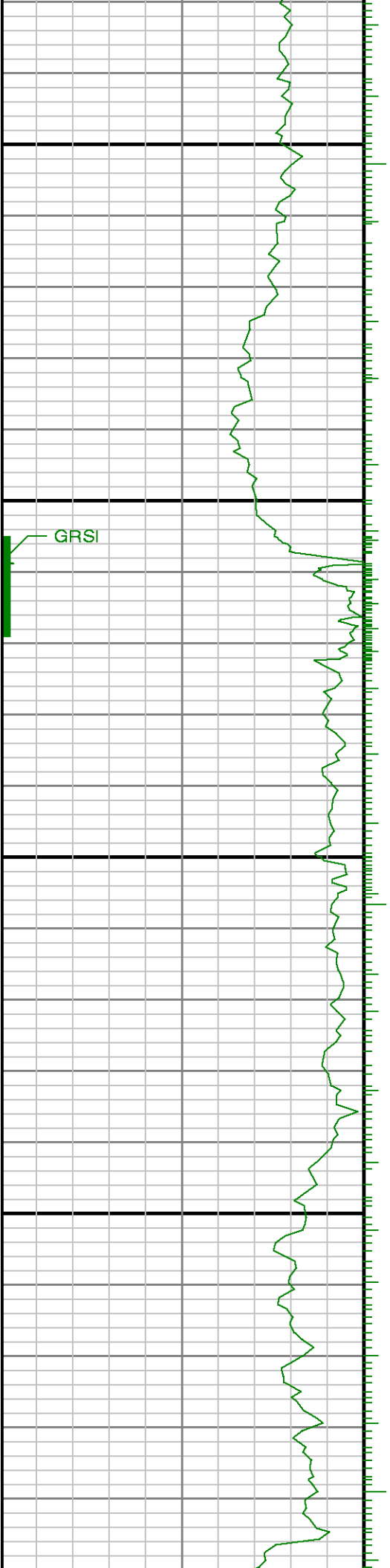
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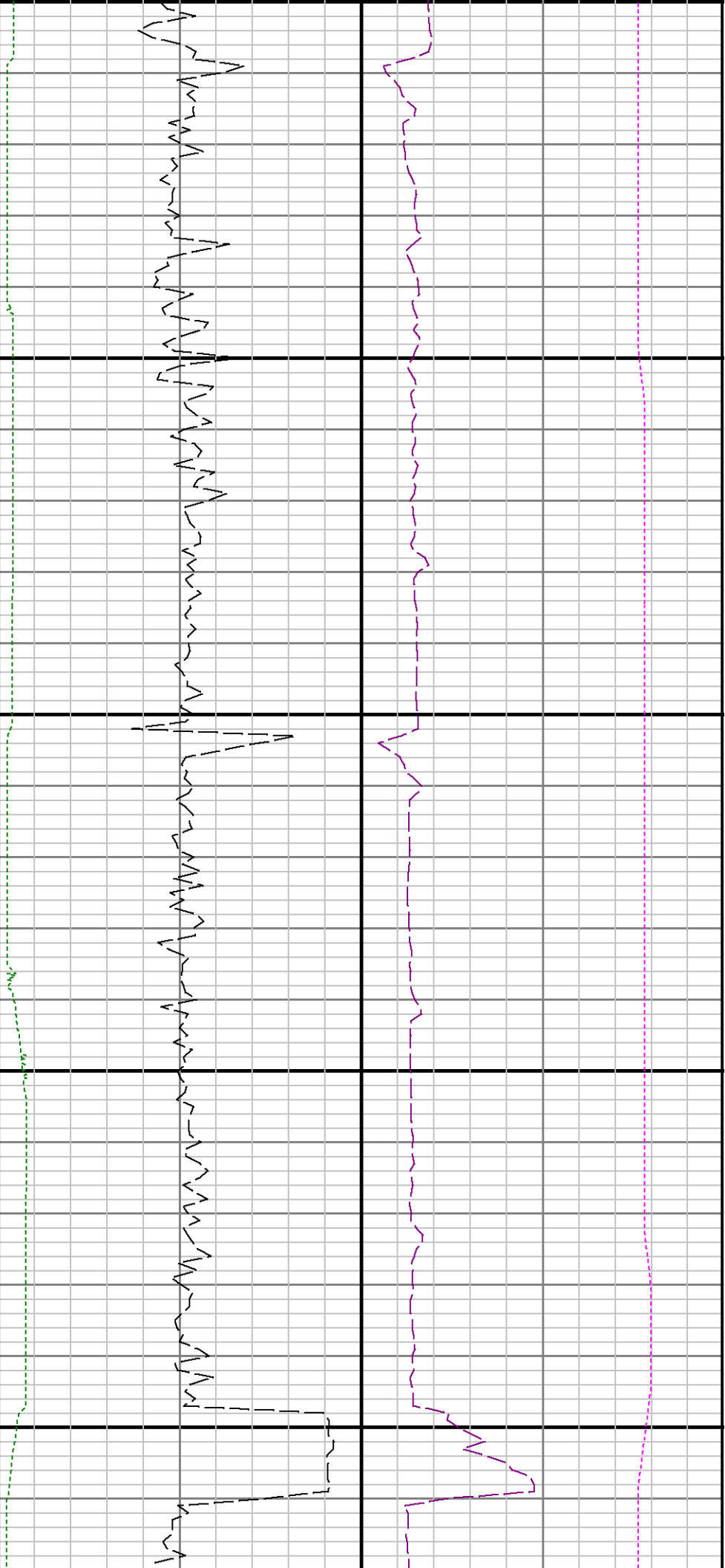




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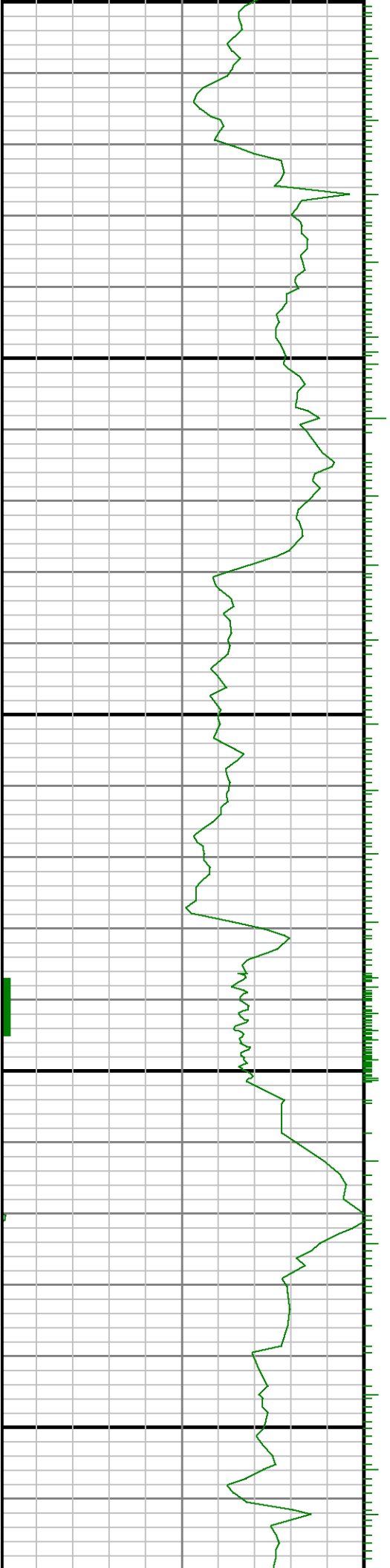
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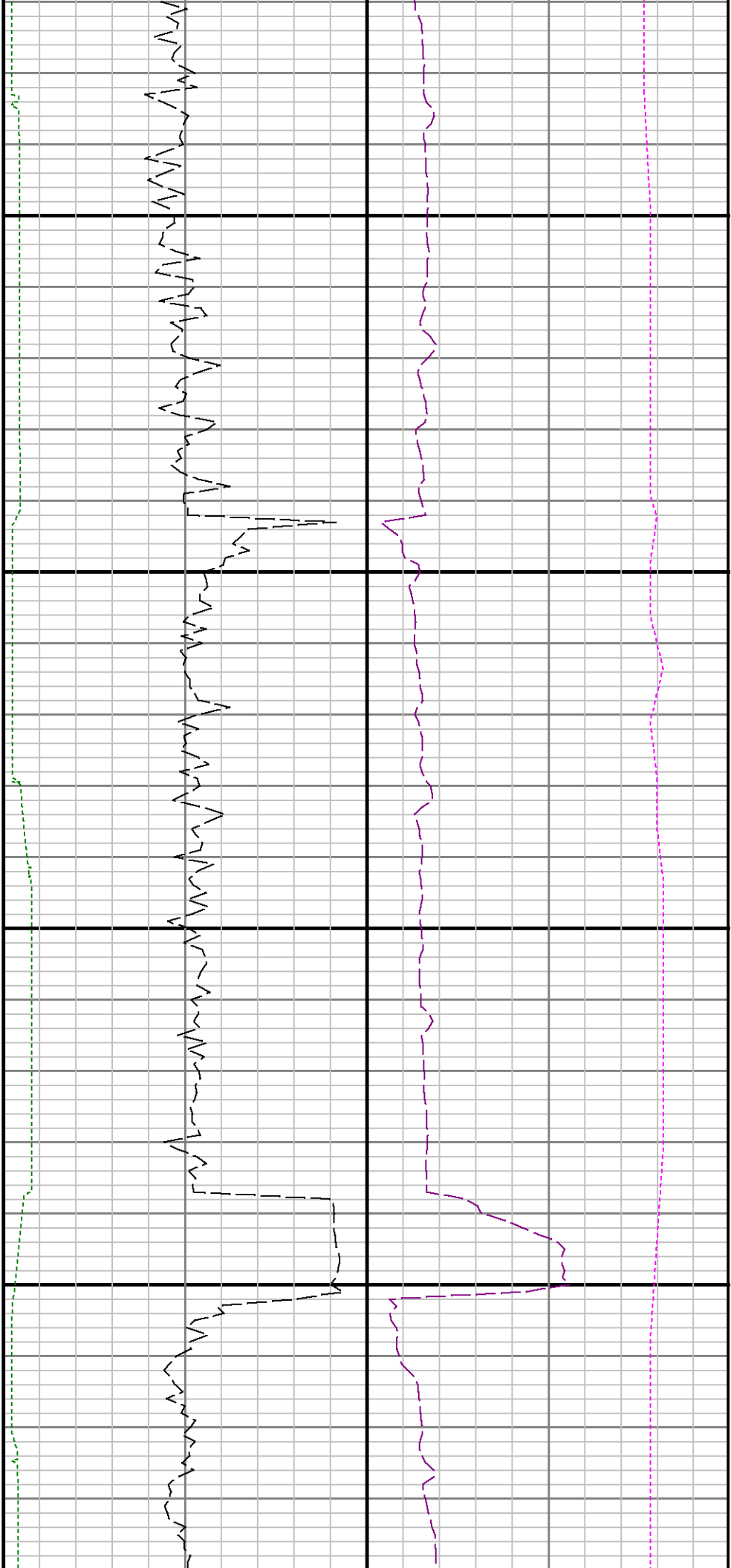




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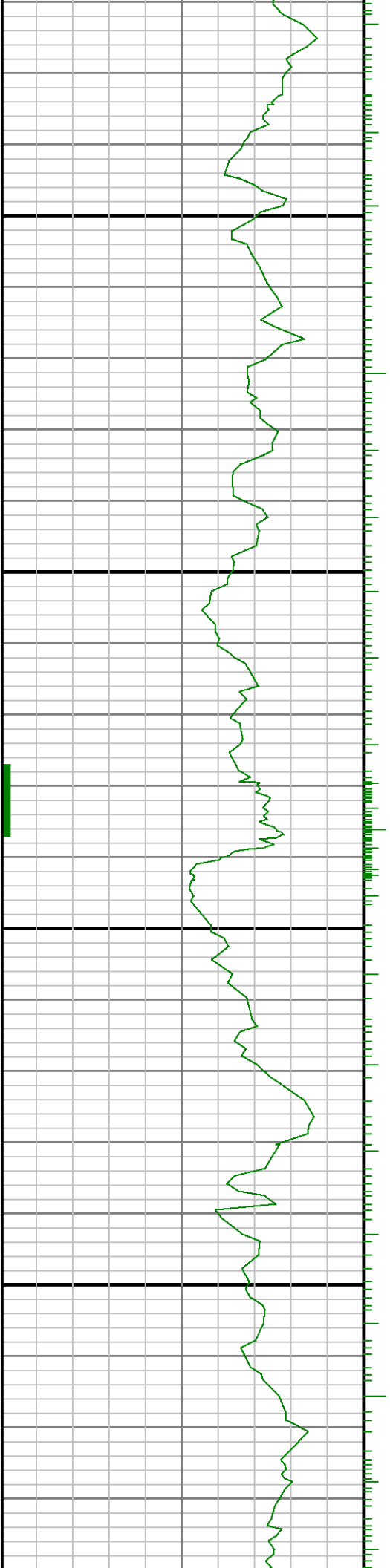
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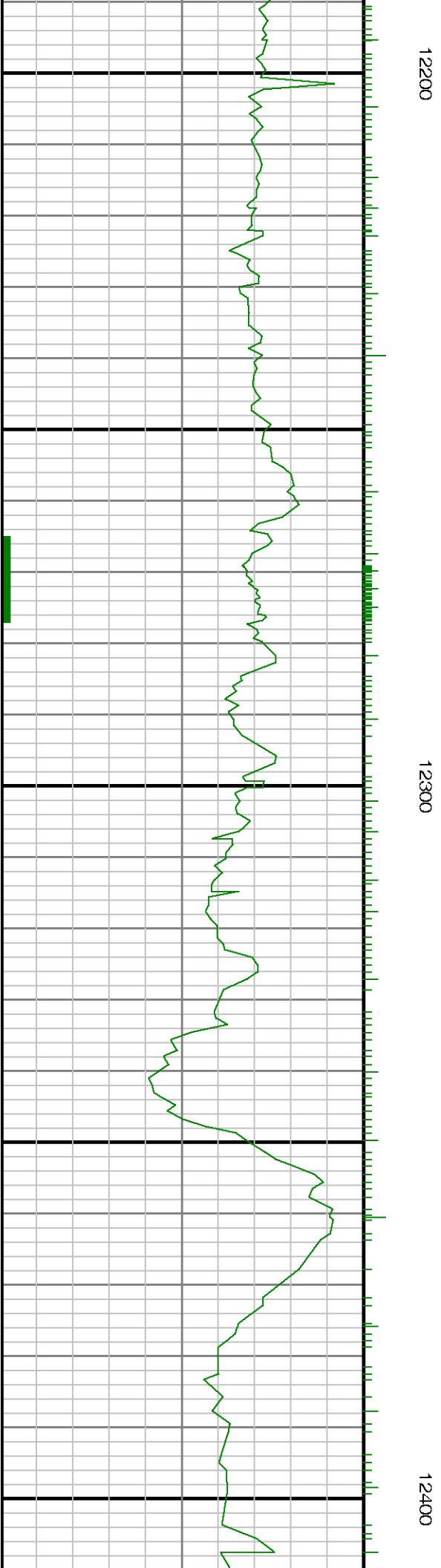
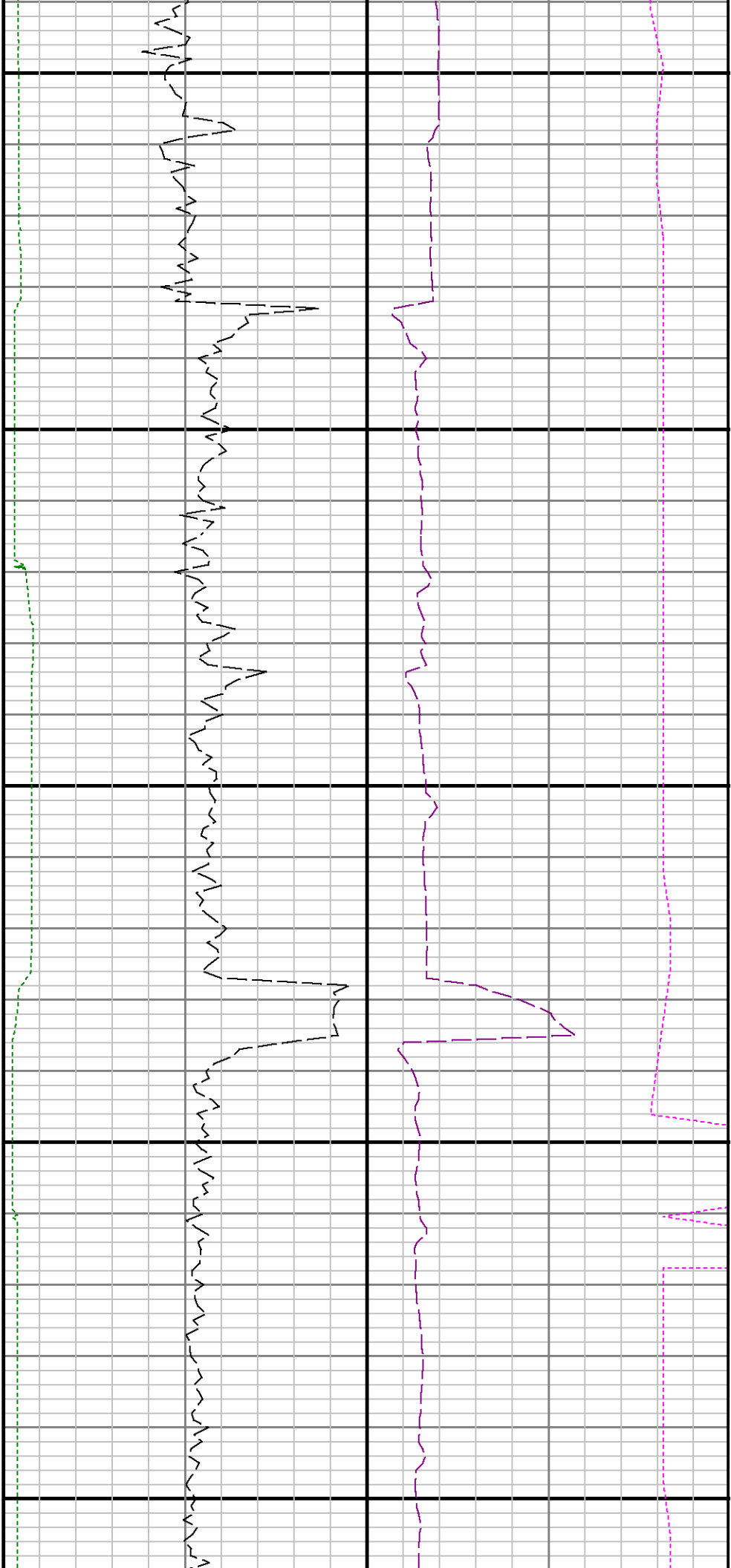


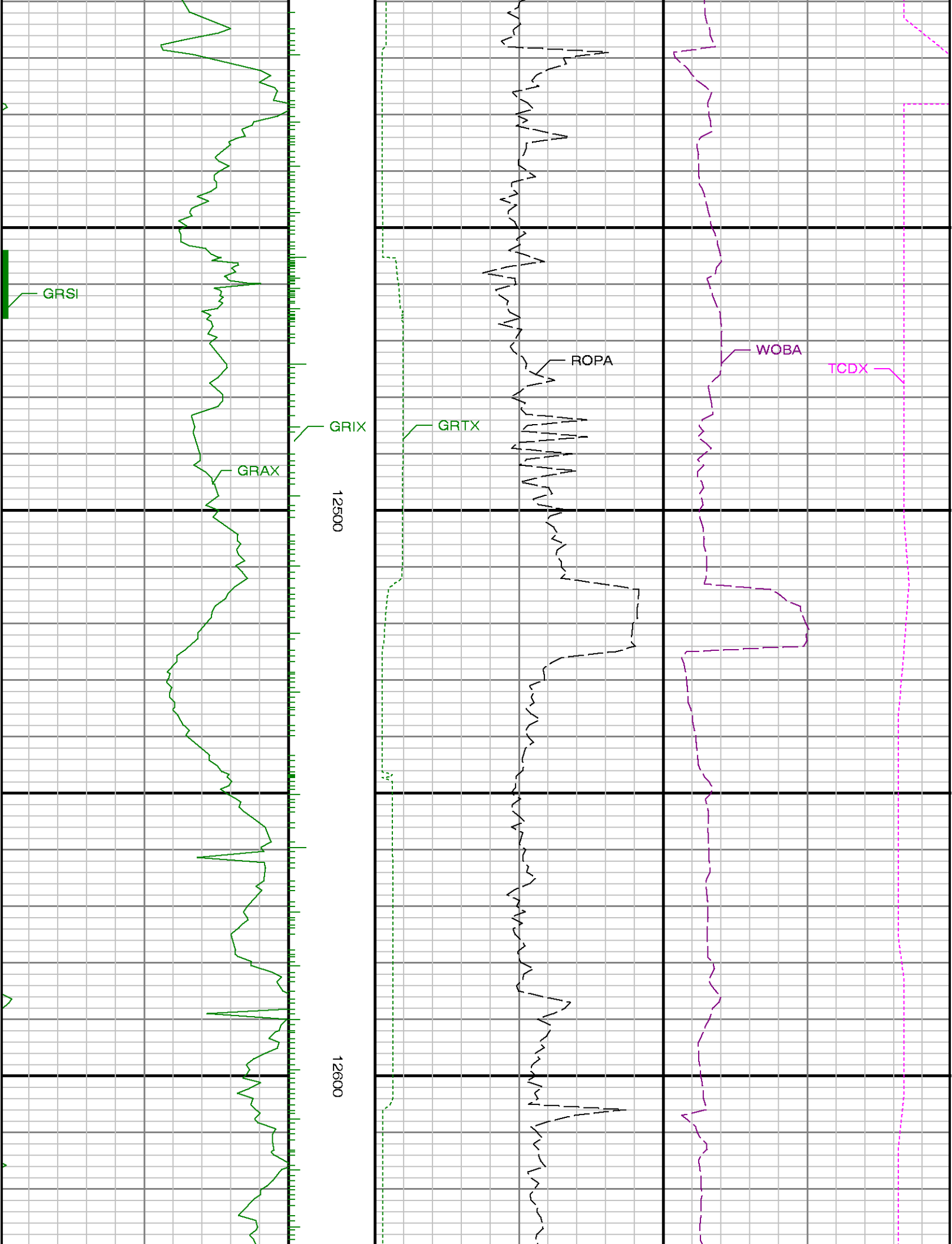


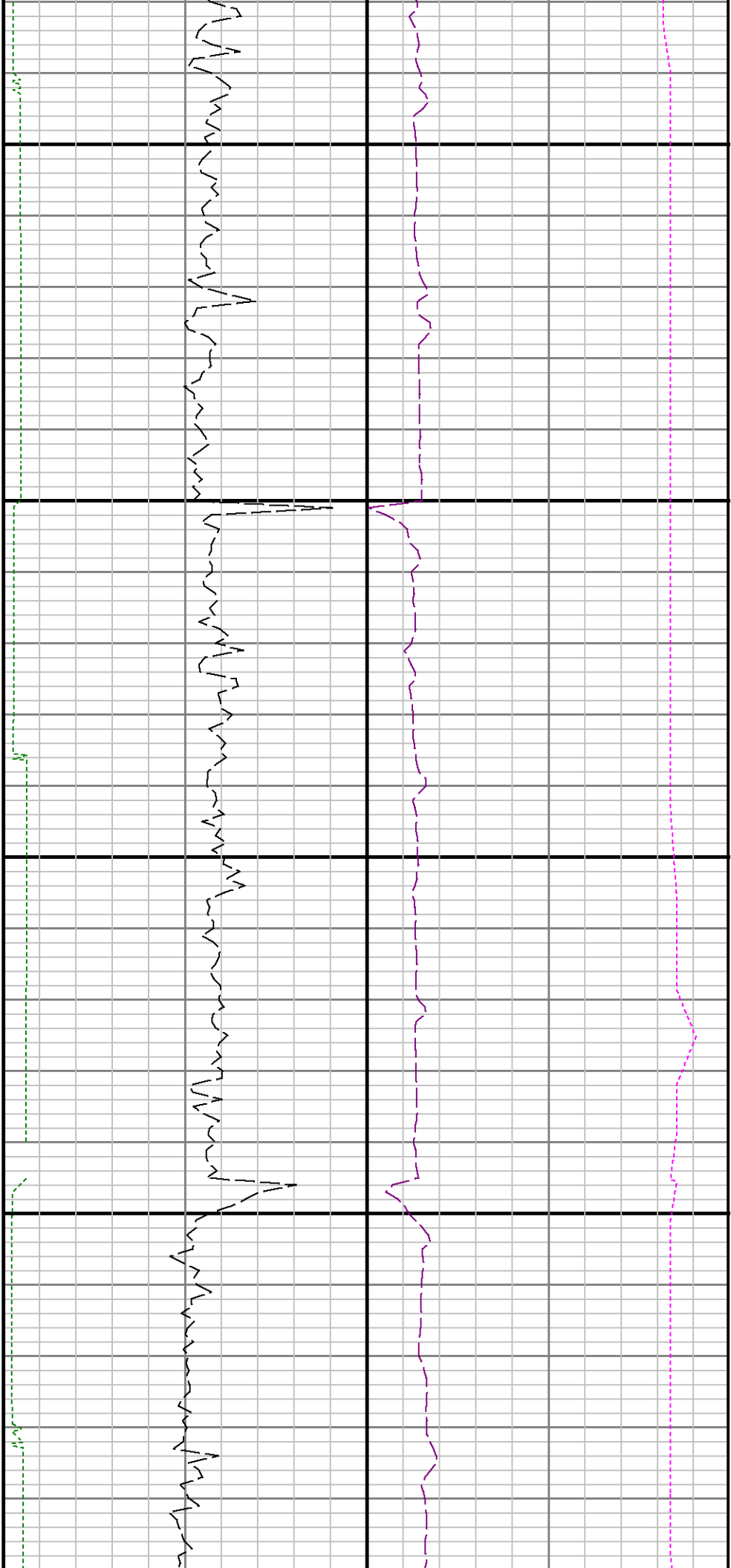
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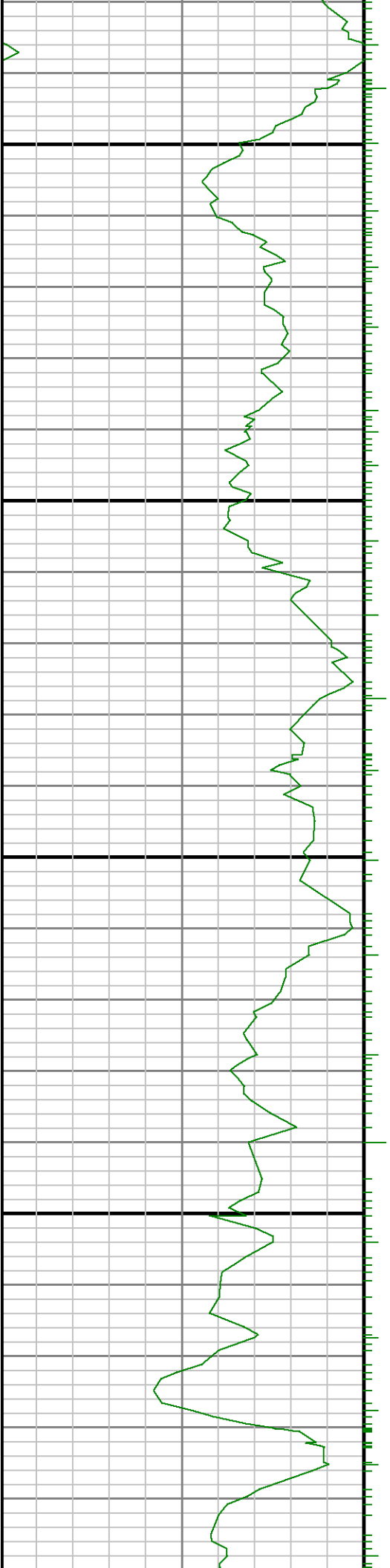


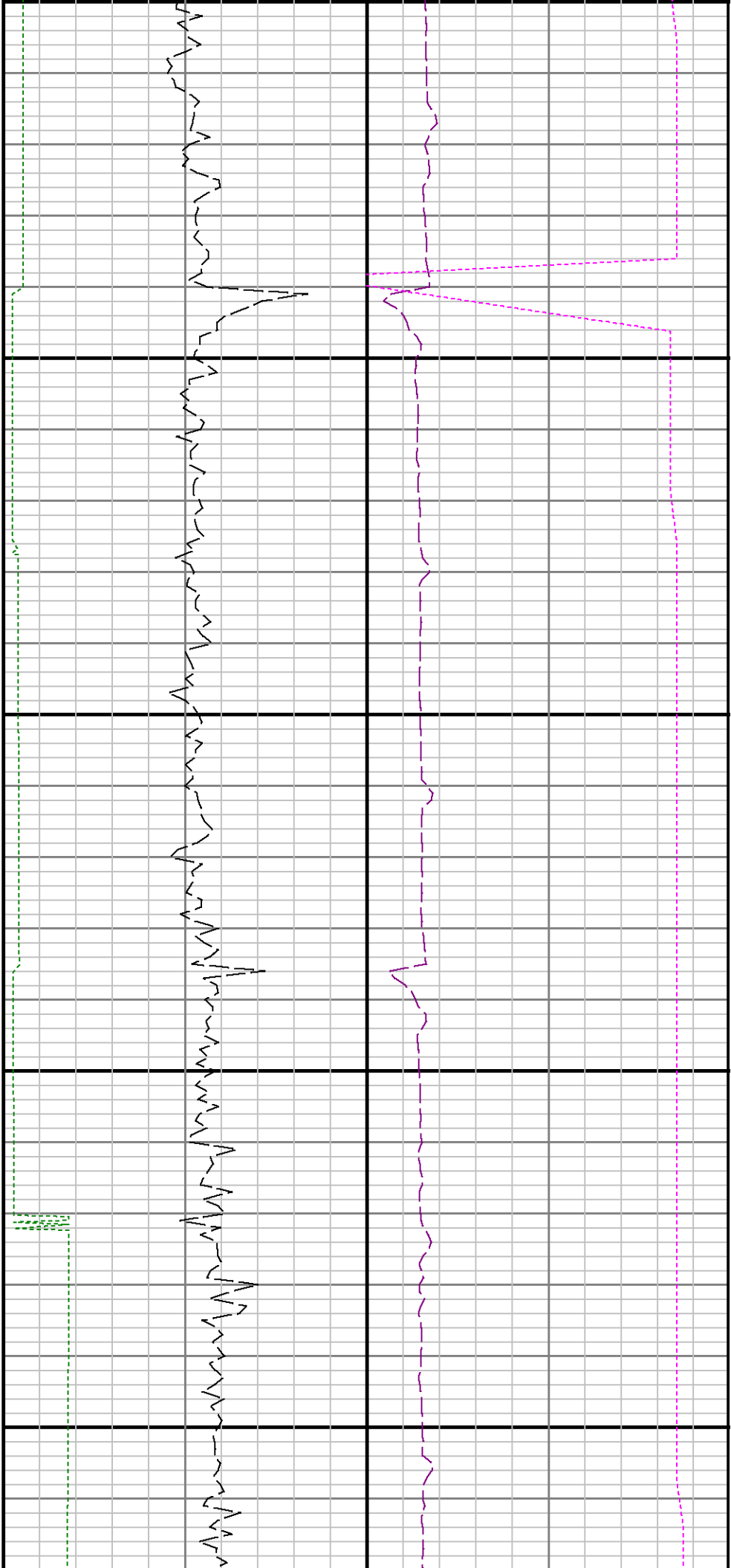




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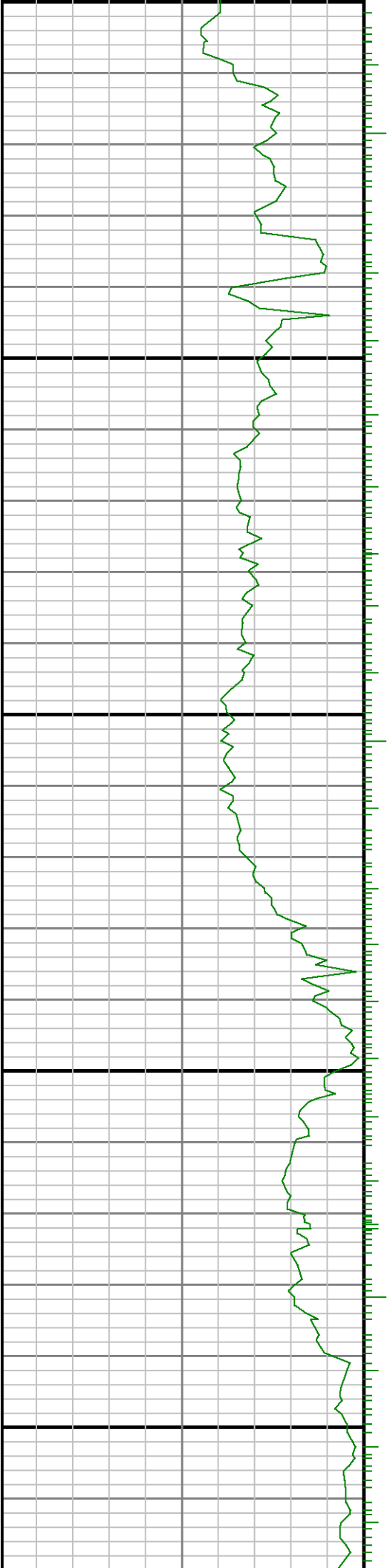
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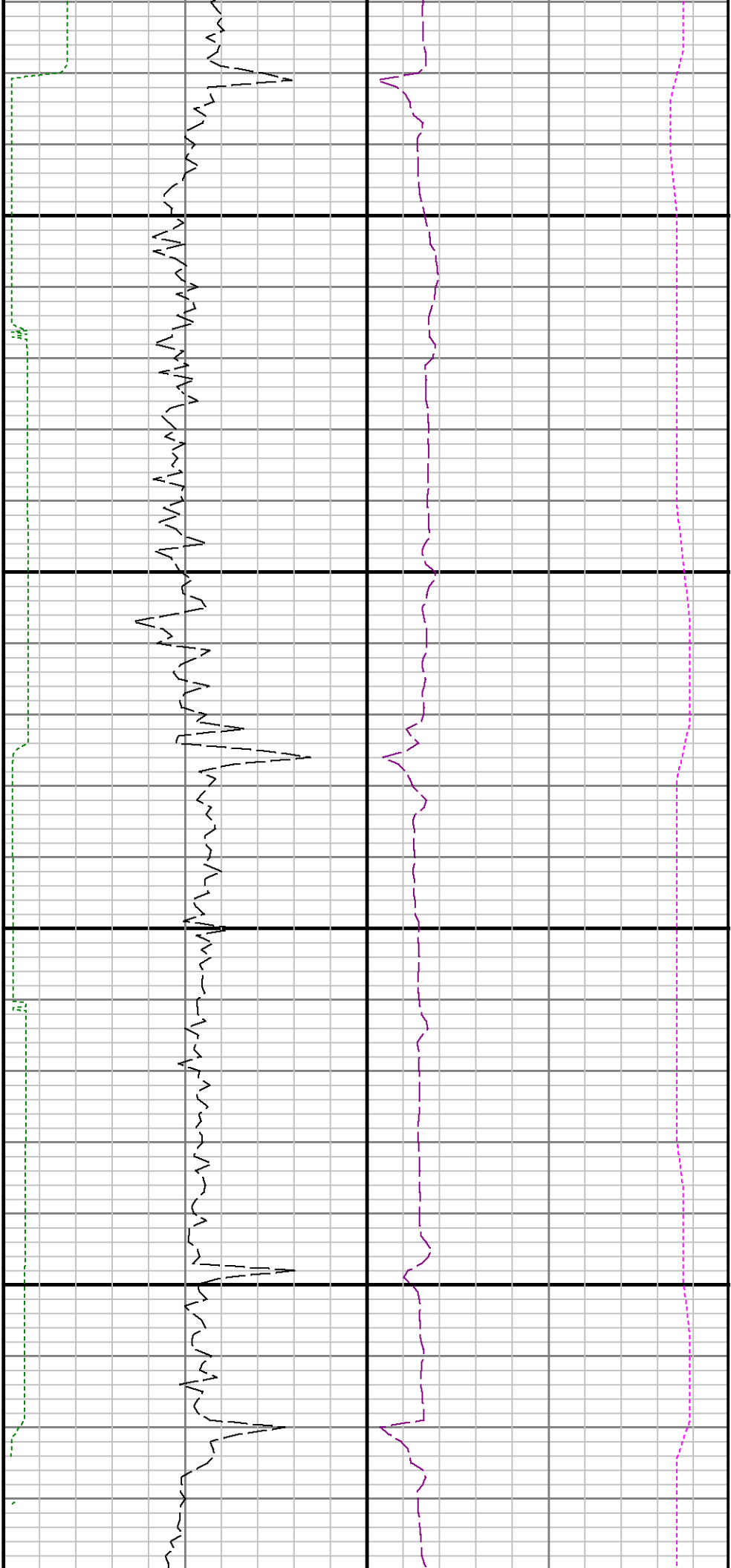




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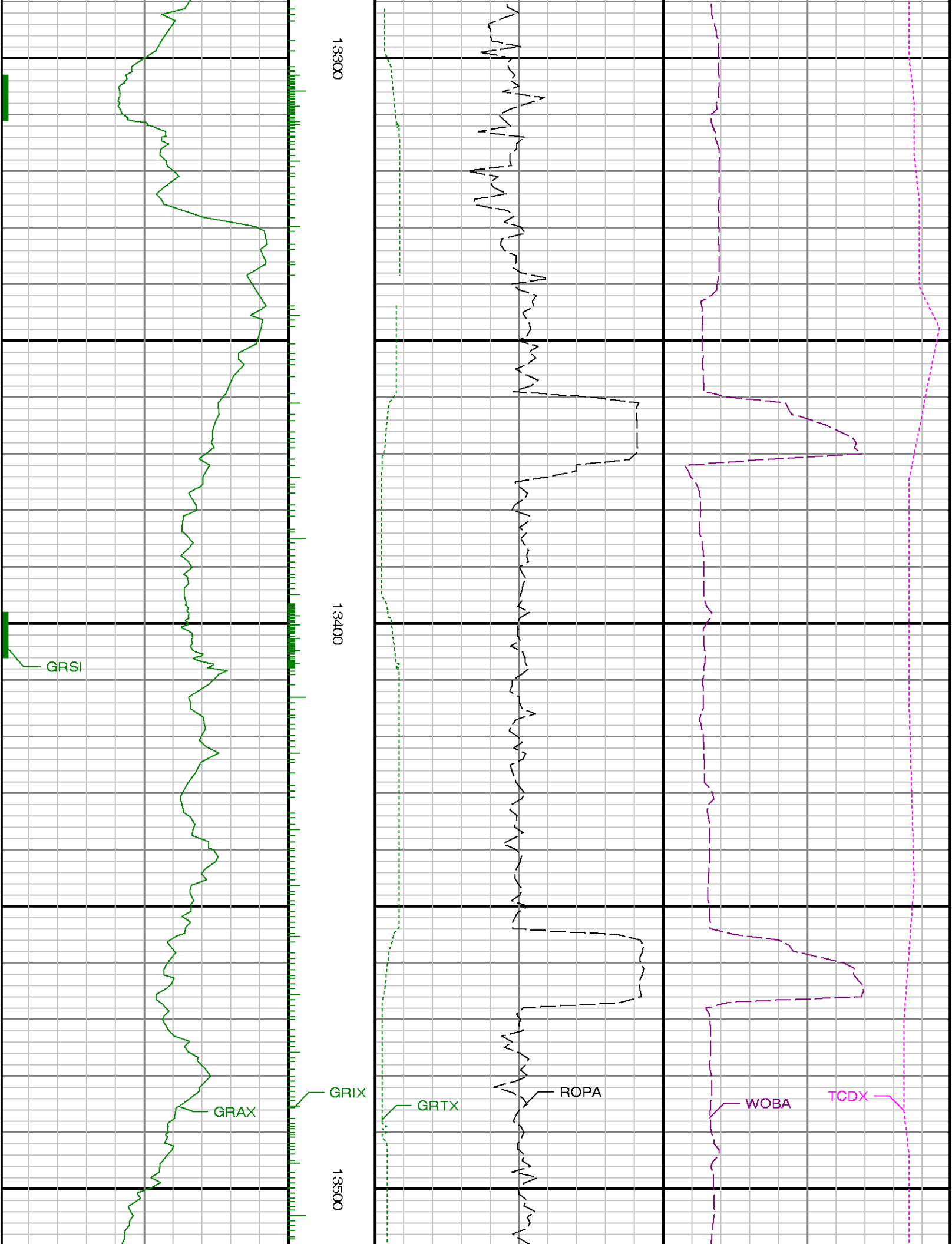
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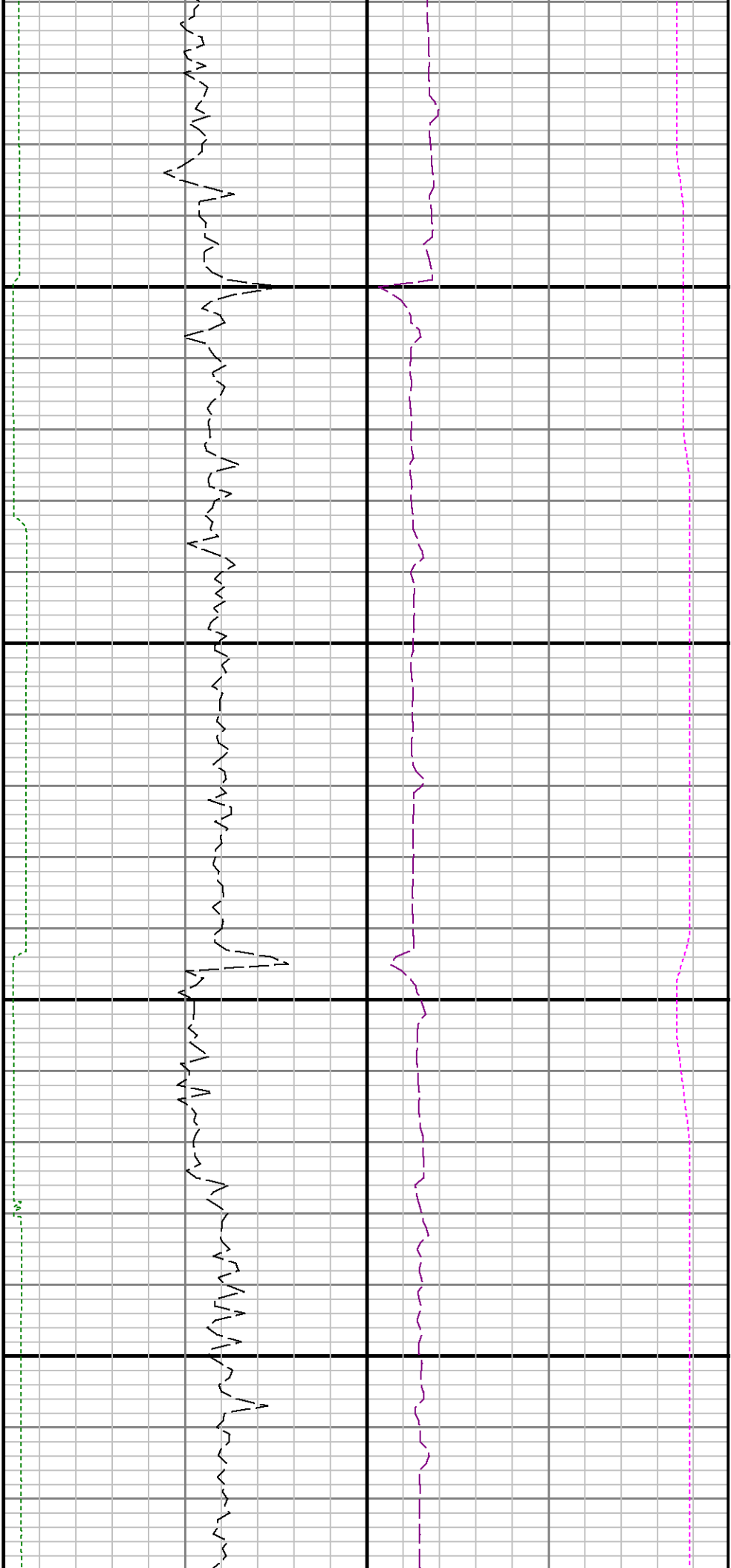




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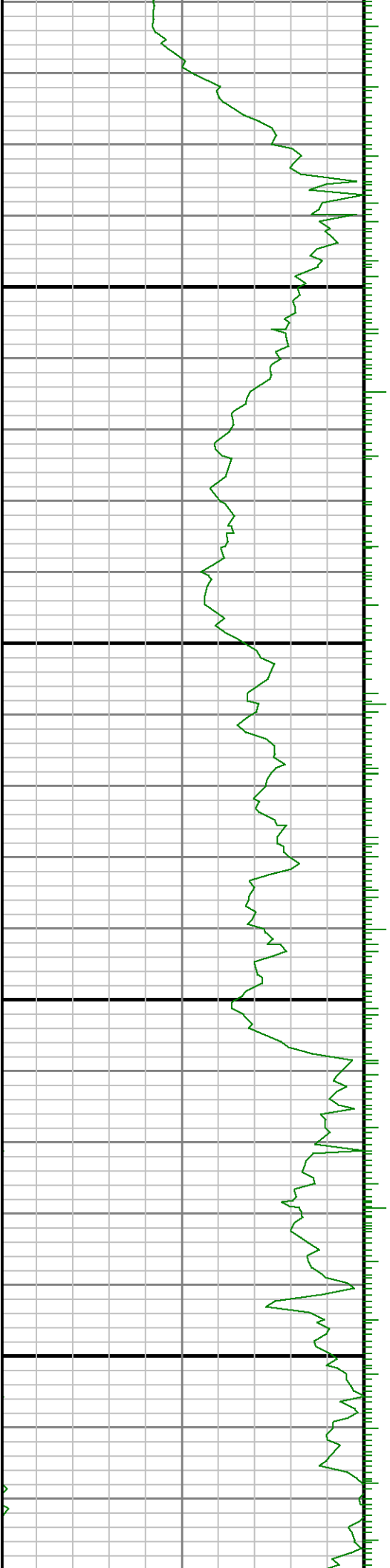
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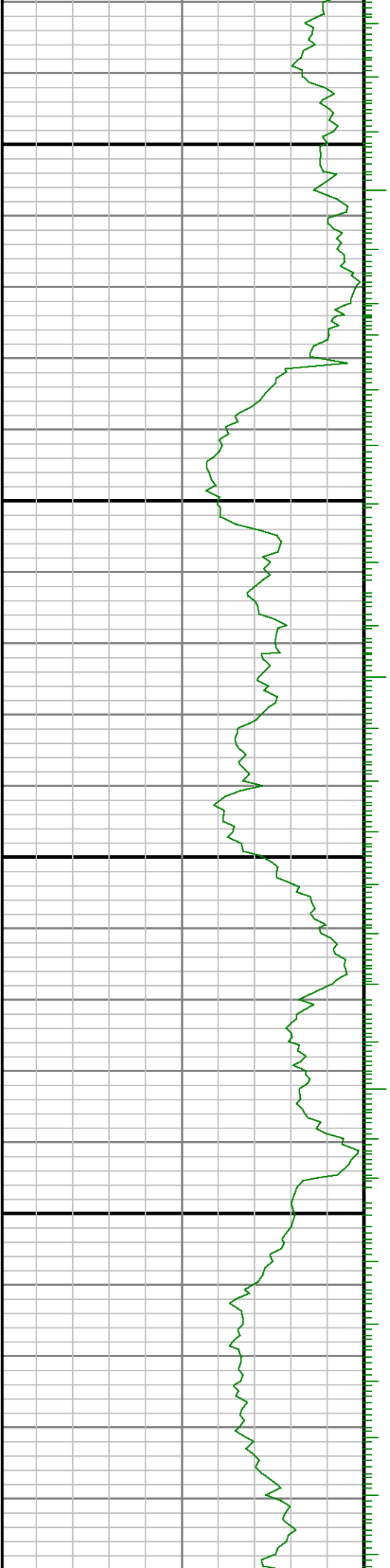
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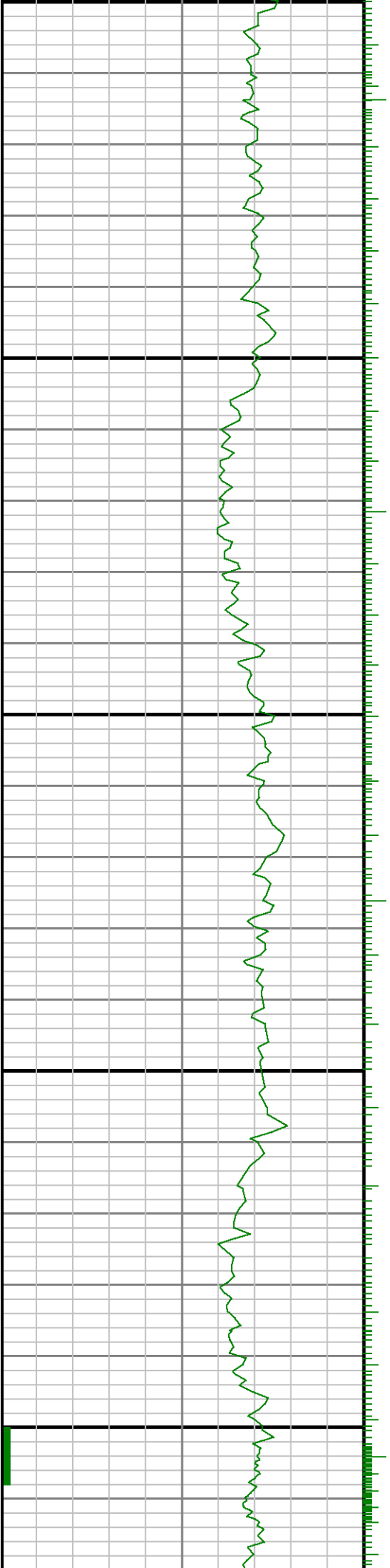
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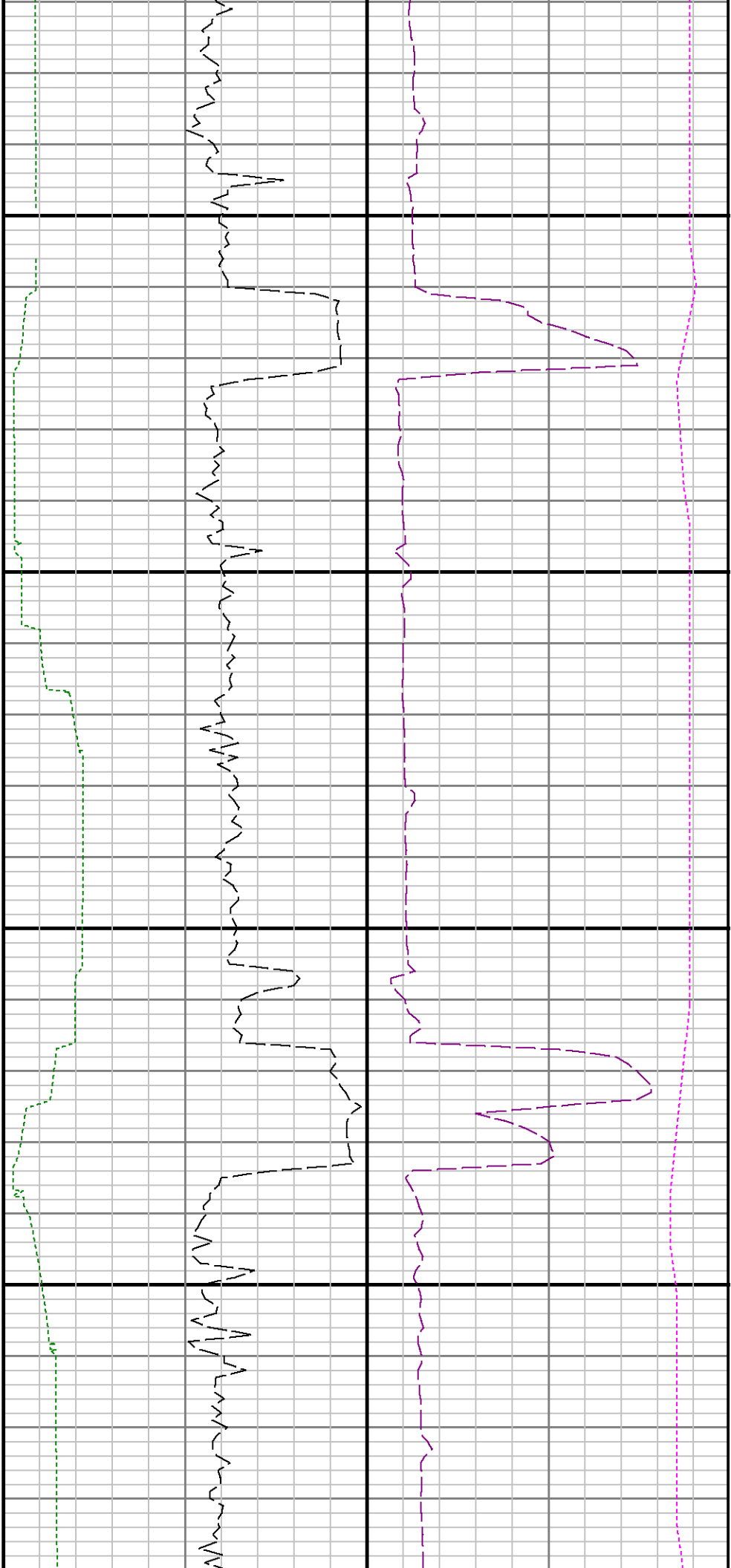




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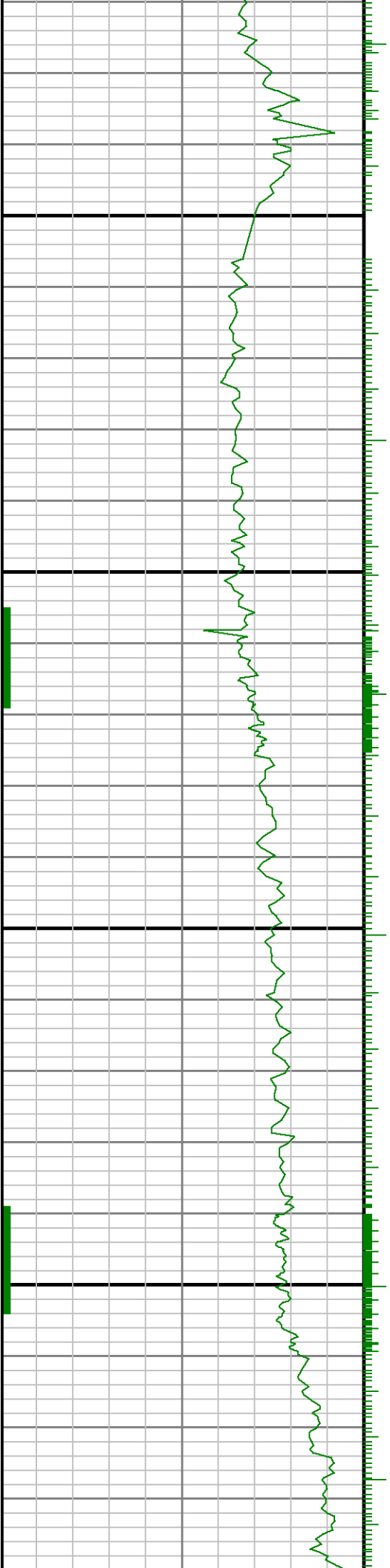
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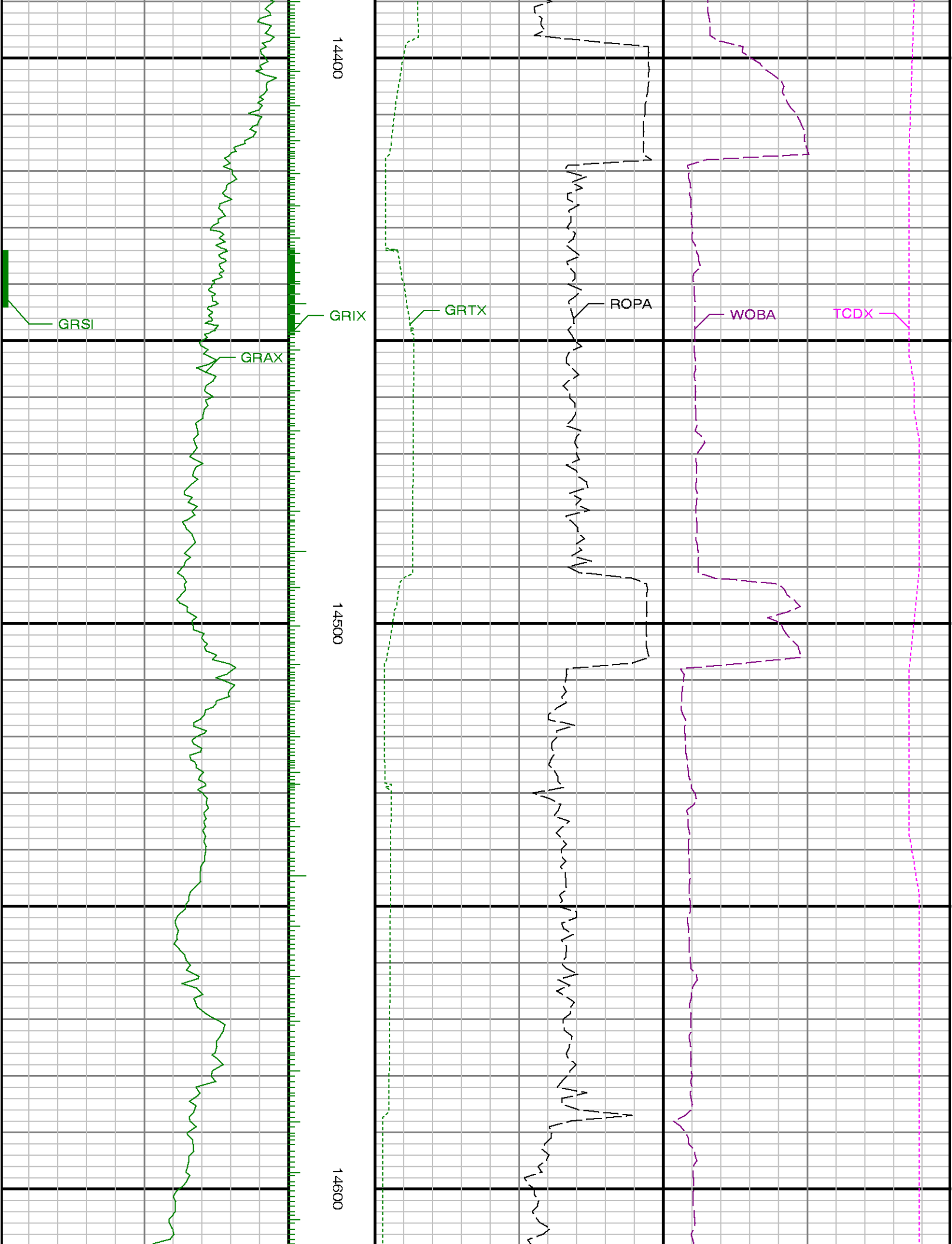




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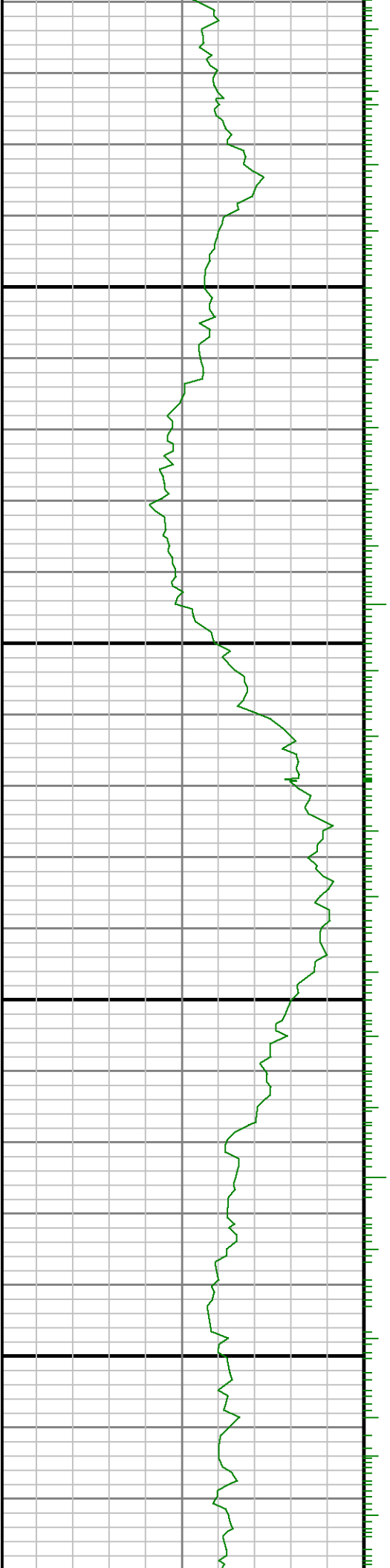


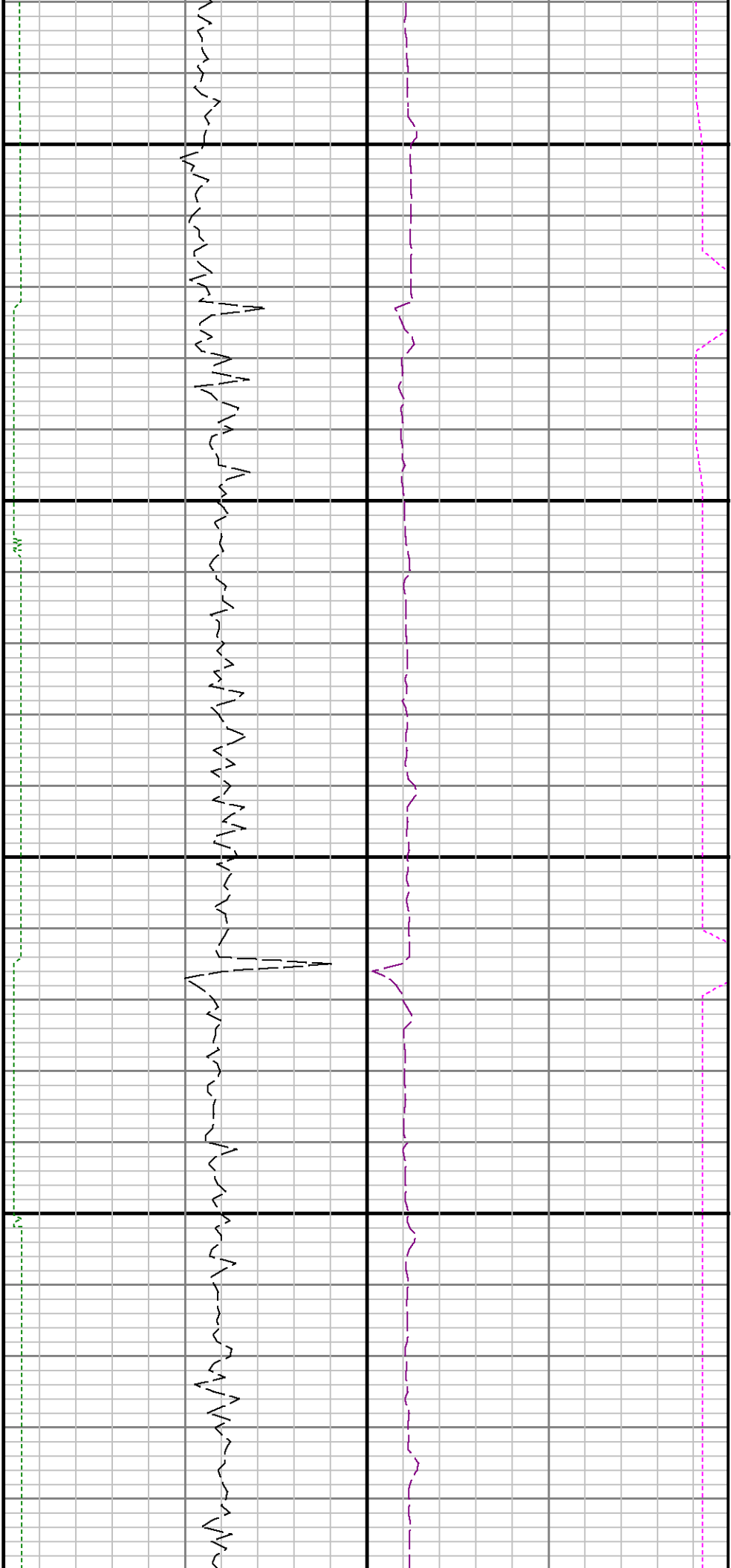




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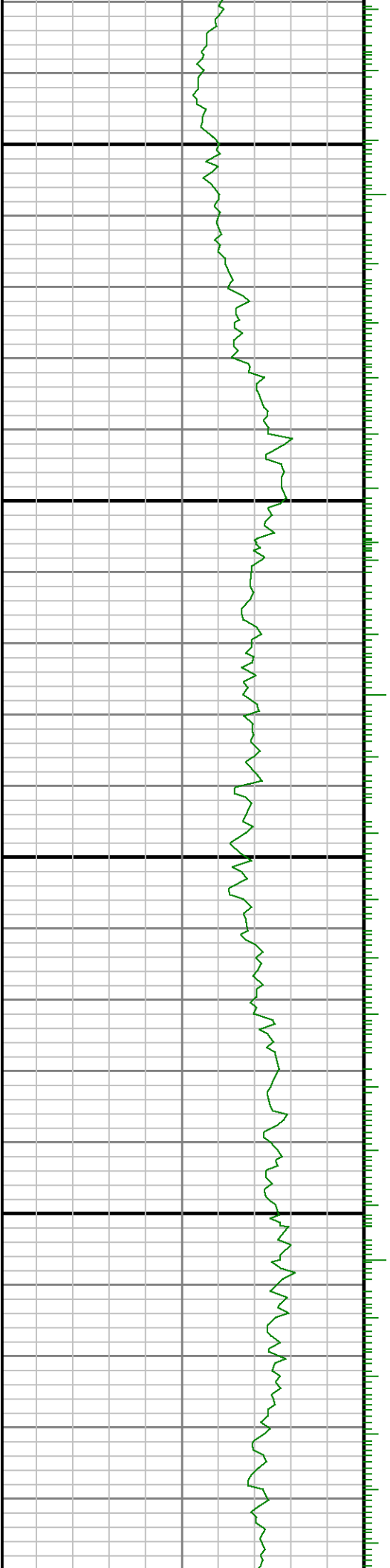
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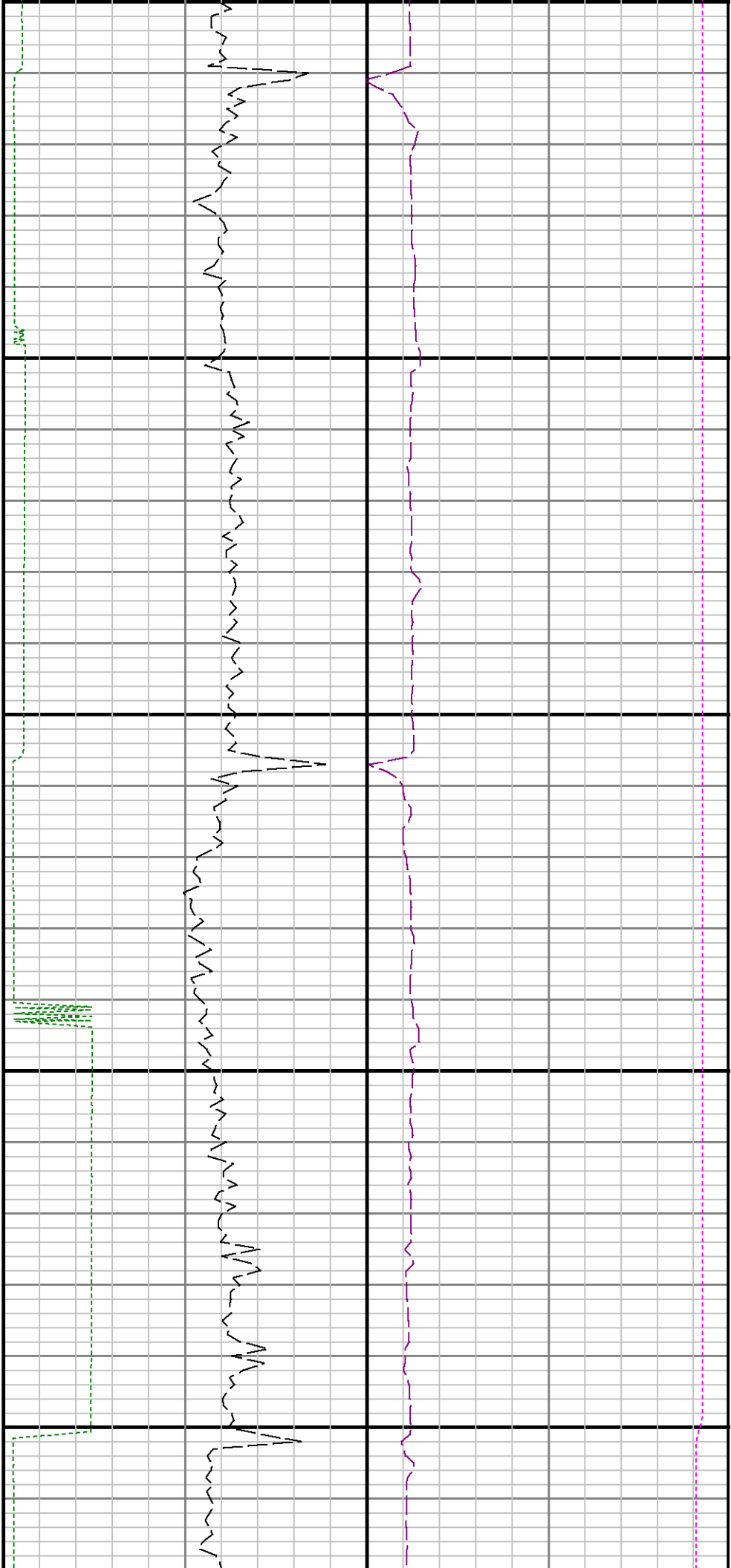




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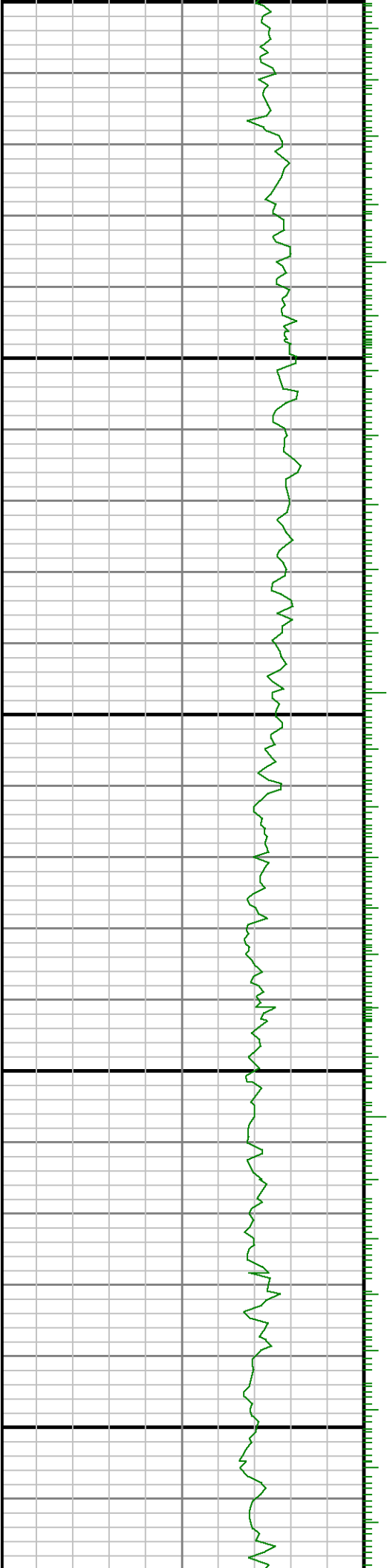
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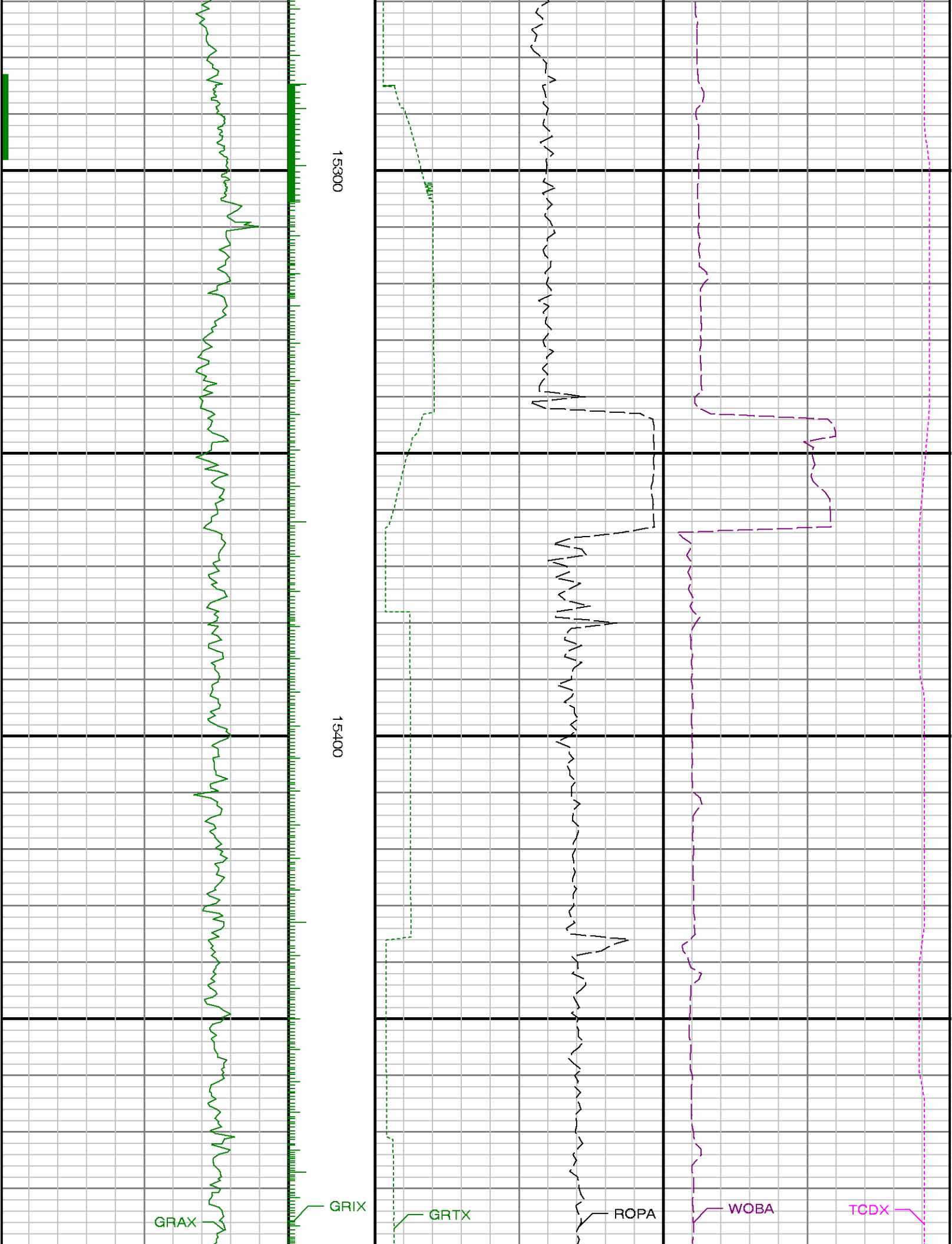


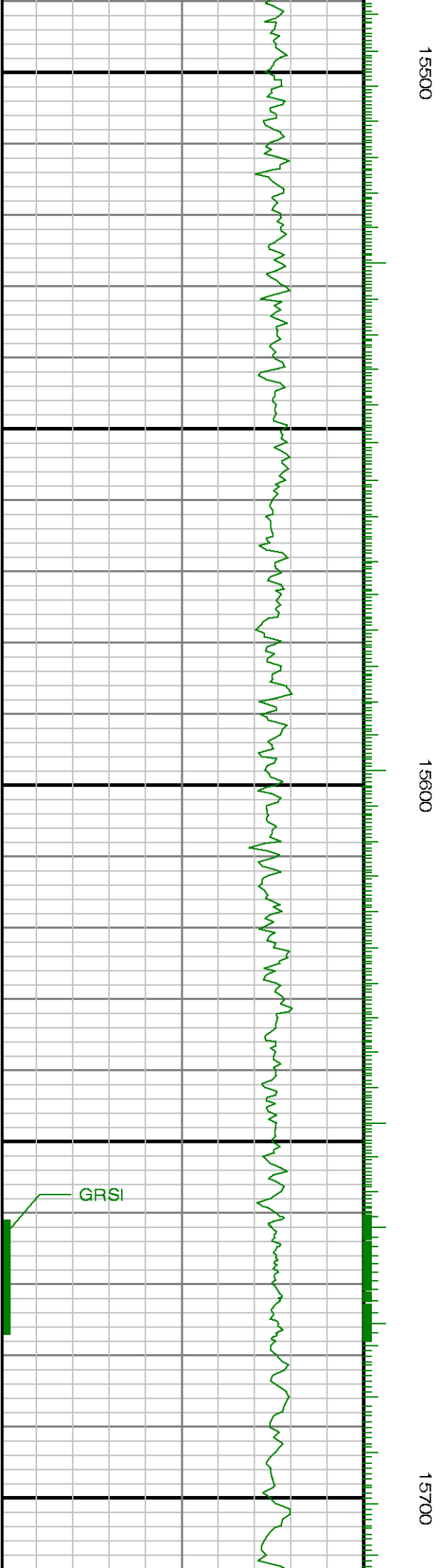


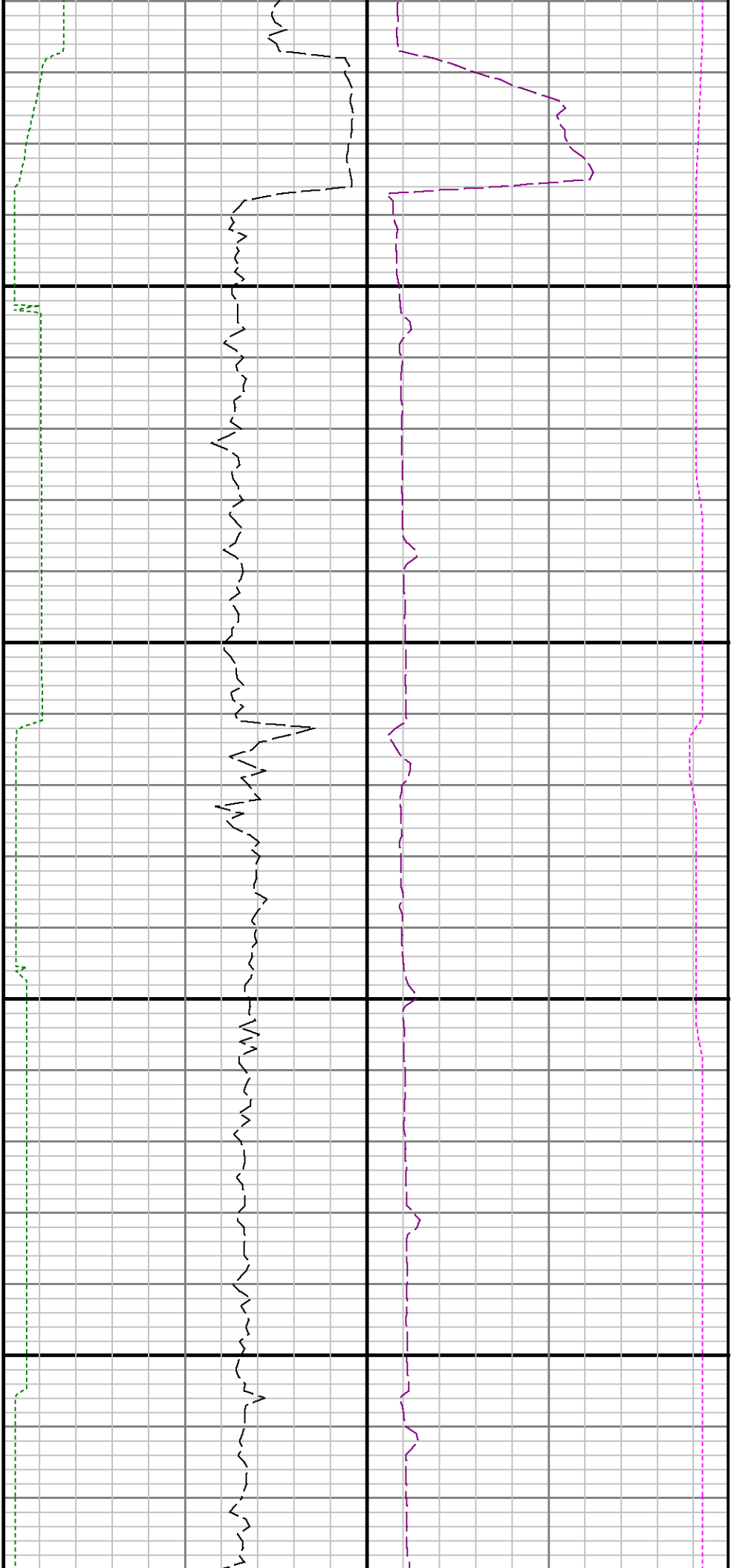
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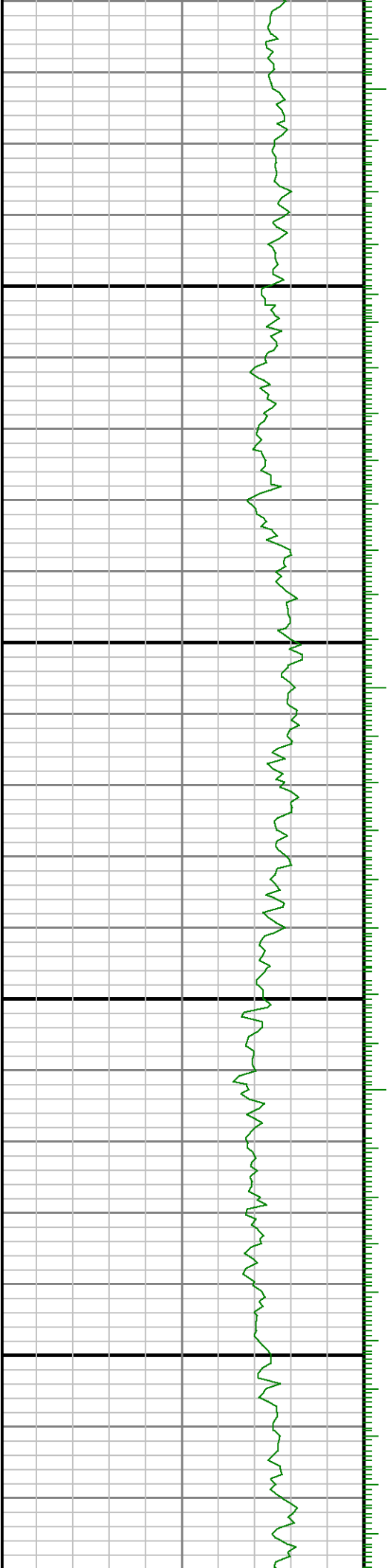


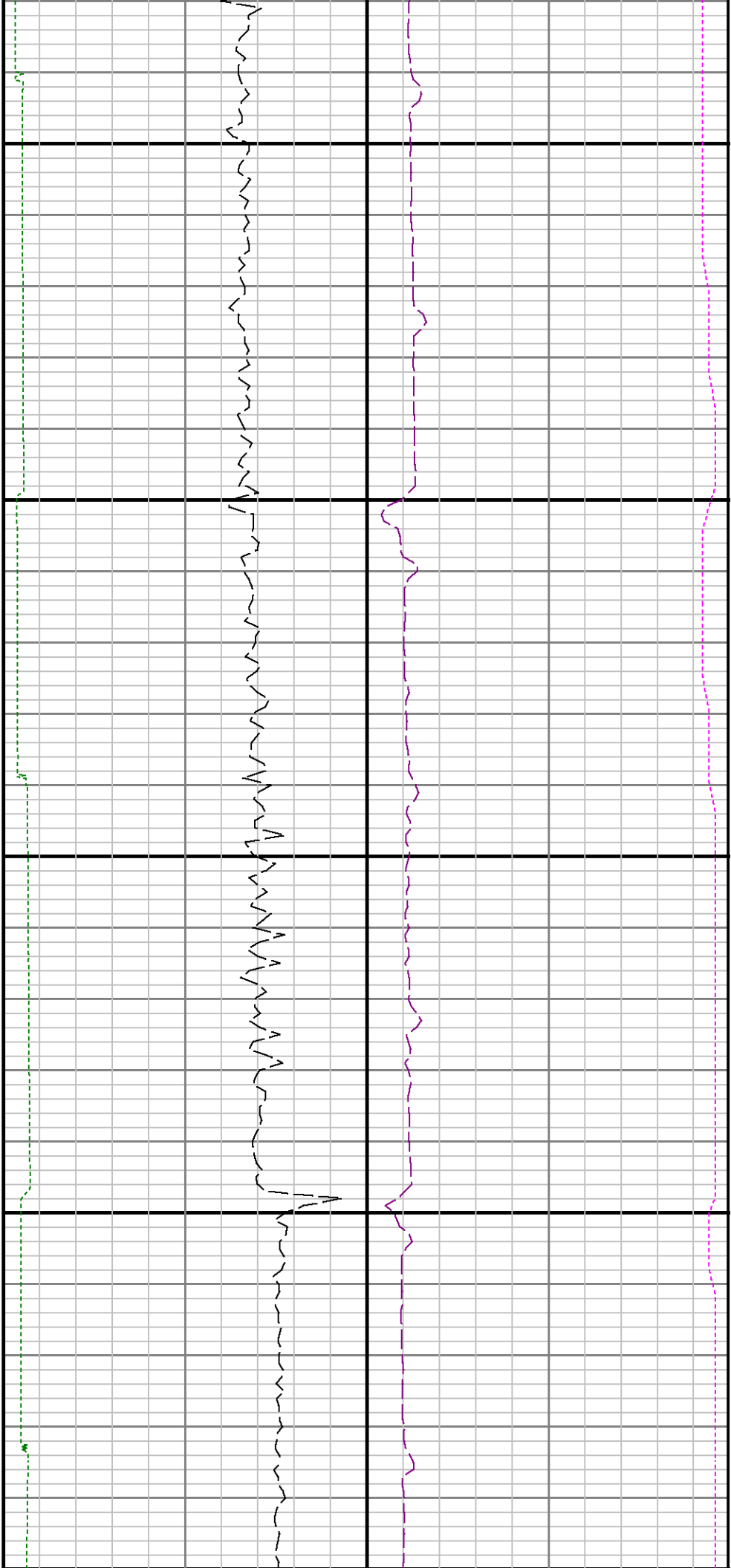




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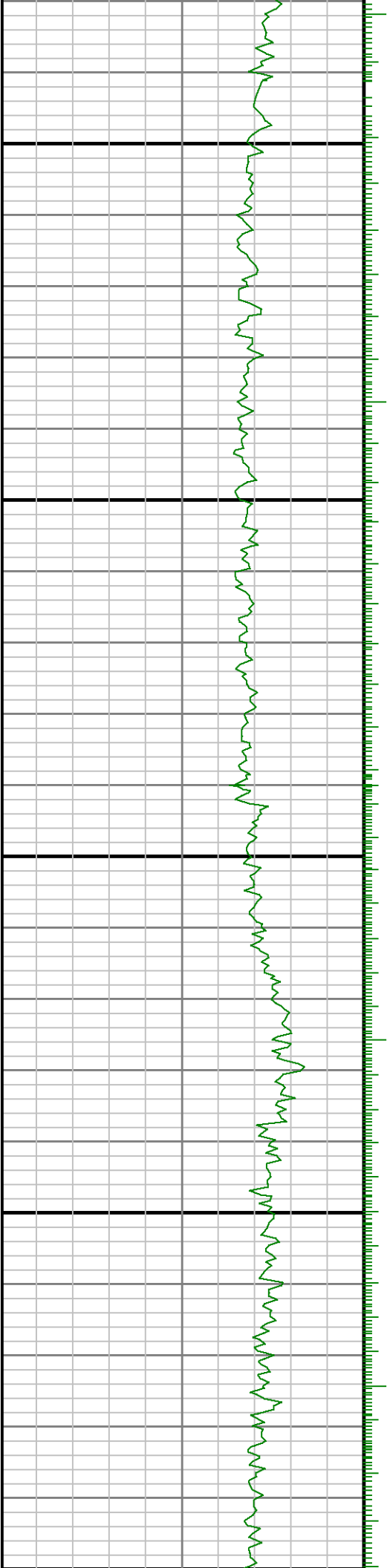
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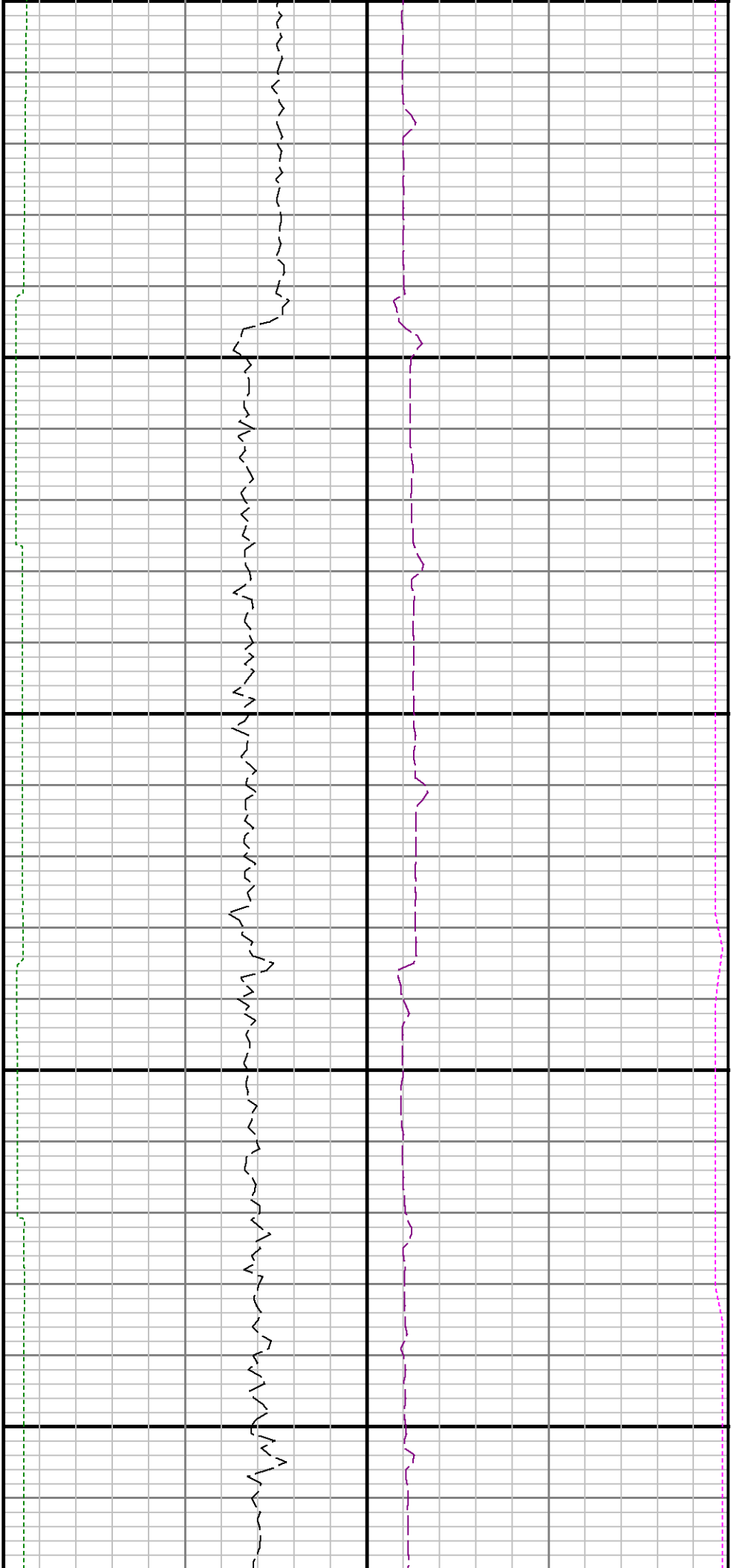




16000

16100





16200

16300

