



Realtime Log

Natural Formation Evaluation  
Gamma Ray

Scale:

Company: Anadarko

1:240

Well: Viper Pyro State 16N2-10HZ

Measured Depth

Field: Weld County

Region: Continental US State: United States

Status: Final Print

Surface Location:

Latitude: 40° 13' 51.866" N

Longitude: 104° 53' 7.073" W

Other Services:  
Directional  
VSS

API Number: 051234143100

Section: 15

TWN: 3N

Range: 67W

Permanent Datum (P.D.): Ground Level Elevation: 4794.00 ft.

Elevations: N/A

Log Measured From: Rig Floor 20.00 ft. Above P.D.

KB: 4814.00 ft.  
DF: 4794.00 ft.  
GL:

Depth Reference: Driller's Depth

GL:

Interval Logged

Dates

Magnetic Field Reference

Top: 6500.0 ft. Date From: 21/Jul/15 Date To: 25/Jul/15 Dip Angle: 66.87° Azl Reference North: True

Bottom: 12674.0 ft. Date To: 25/Jul/15 Total Mag to Reference

Spud Date: 21/Jul/15 Field Strength: 52458.0 nT North Correction: 8.43°

Borehole Record

Casing Record

Hole Size From To Size Weight From To

12,500 in. Surface 1920.0 ft. 9,625 in. 36.00 lb/ft. Surface 1910.0 ft.

8,500 in. 1920.0 ft. 12674.0 ft.


Mud Record

Deviation Record

Type From To Hole Size Interval Inc / Az (Start) Inc / Az (End)

Oil Based Surface 12674.0 ft. 12,500 in. 1920.0 ft. 0.0° / 214.8° 20.2° / 331.4°

8,500 in. 10754.0 ft. 19,9° / 333.2° 89.8° / 89.7°

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Acquisition System Software Version Other

Advantage 2,2004 Rig / Contractor: Precision 462 / Precision Drilling

PATS 6,4,1,34 Job No: 7343530 / 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 (ft.)	Bottom (ft.)	From (ft.)	To (ft.)	Start	End	
1	1	1	8.500	PDC	3.500	Steerable	6500.0	12609.0	1920.0	12674.0	22/Jul/2015 00:00	25/Jul/2015 18:00	63

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Donald Delay	21/Jul/2015	25/Jul/2015	Bill Herbers	21/Jul/2015	25/Jul/2015			
Mike Cleary	21/Jul/2015	25/Jul/2015	Ken Perry	21/Jul/2015	25/Jul/2015			
Andy King	21/Jul/2015	22/Jul/2015						

Mud Properties Record

Date / Time		LWD Run No.	Measured Depth (ft.)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
22/Jul/2015	18:00	1	2516.0	MEGADRIL	9.5	75	N/A	4.0	68/32	Suction	N/A	N/A
23/Jul/2015	18:30	1	5852.0	MEGADRIL	9.3	63	N/A	4.8	70/30	Suction	N/A	N/A
24/Jul/2015	20:00	1	9484.0	MEGADRIL	9.6	56	N/A	1.6	70/30	Suction	N/A	N/A
24/Jul/2015	17:00	1	11976.0	MEGADRIL	9.7	53	N/A	4.2	73/27	Suction	N/A	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 t. Avg.	API
GRTX	Gamma Ray Time Since Drilled	min.
GRIX	Gamma Ray Data Density	points
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.	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	12592552	Directional	62.28	6.780	3.250
1	SRIG	12816077	Gamma	58.94	6.780	3.250

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.) Baker Hughes Run 1 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 1/2 inch bit and steerable assembly from 1920 to 12674 feet MD (1875.39 to 6997.42 feet TVD).</p> <p>2.) 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.</p> <p>3.) A sliding indicator is shown on the left edge 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	12630	8.500	1	No logging data from 12615 to 12674 feet MD (6997.13 to 6997.42 Feet TVD) due to bit to sensor effect at TD.

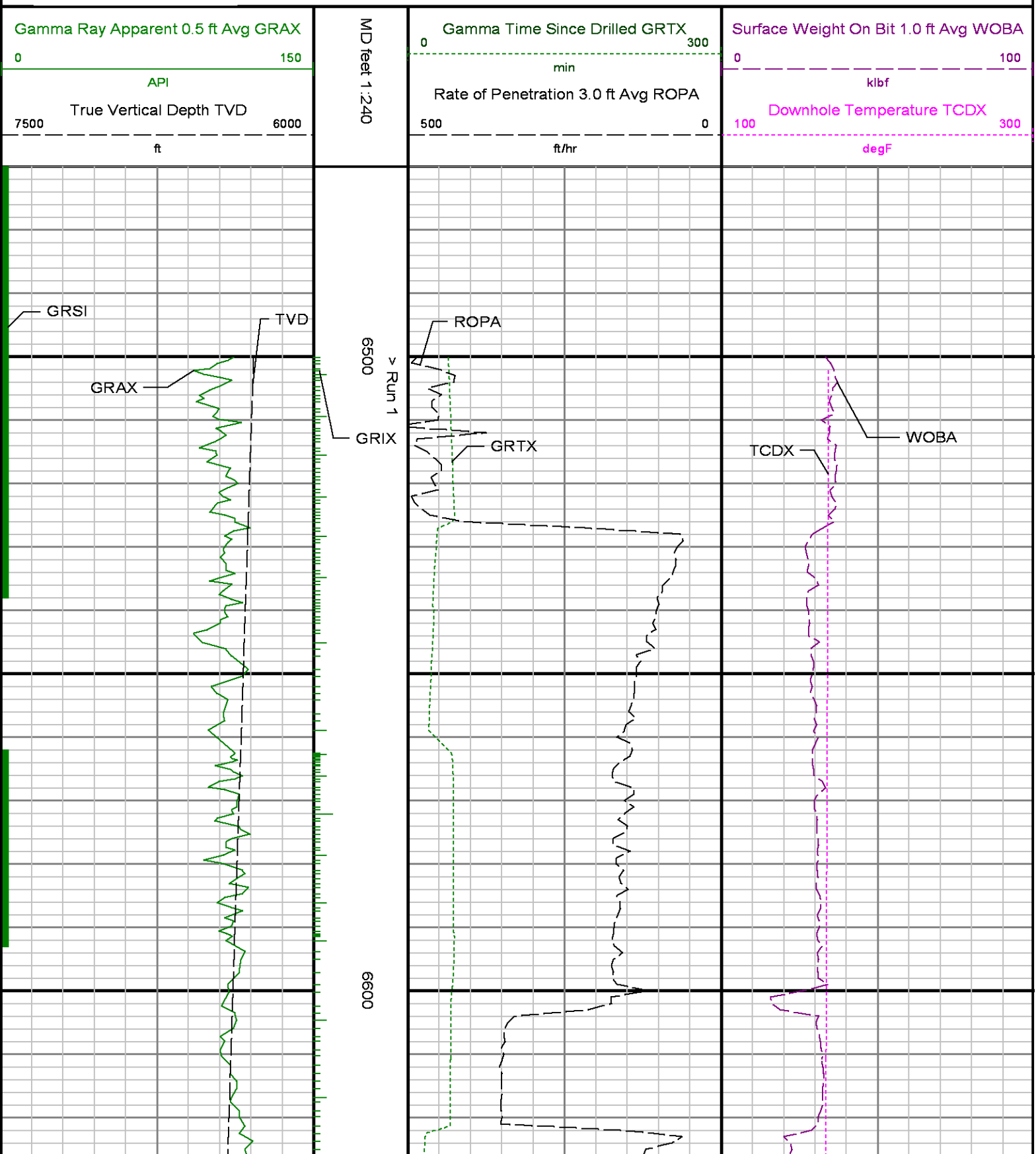


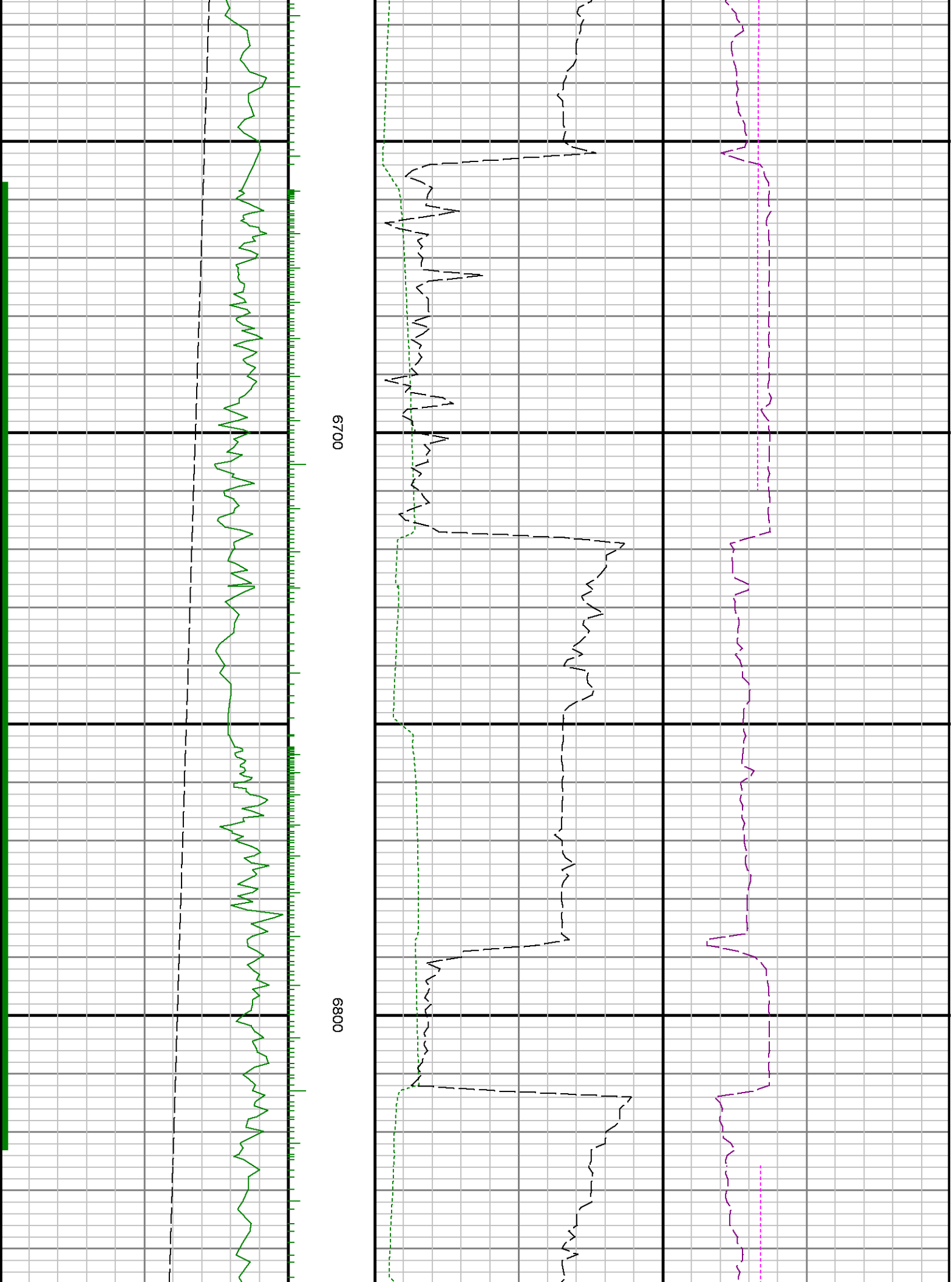
Company : Anadarko

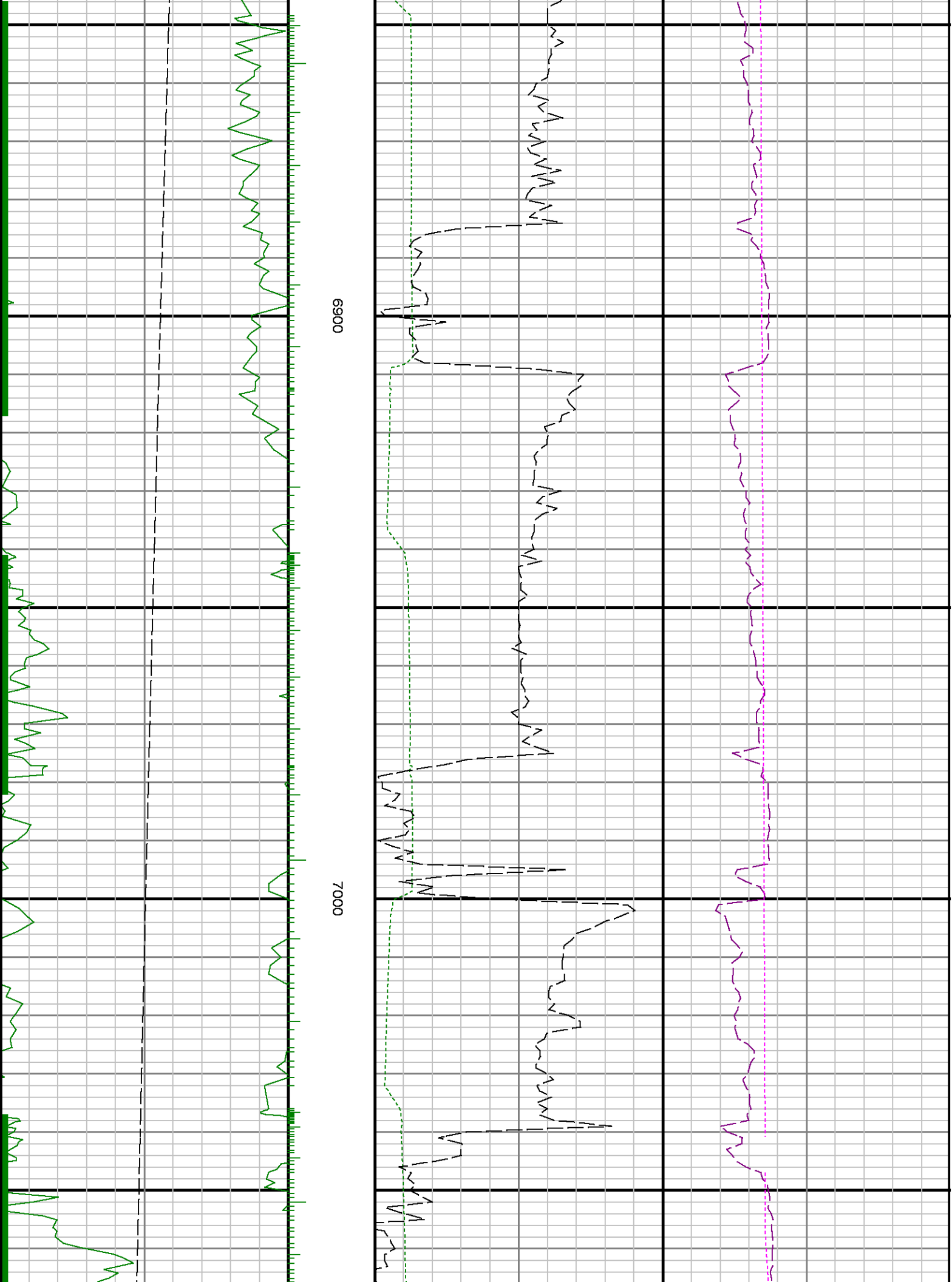
Well : Viper Pyro State 16N2-10HZ

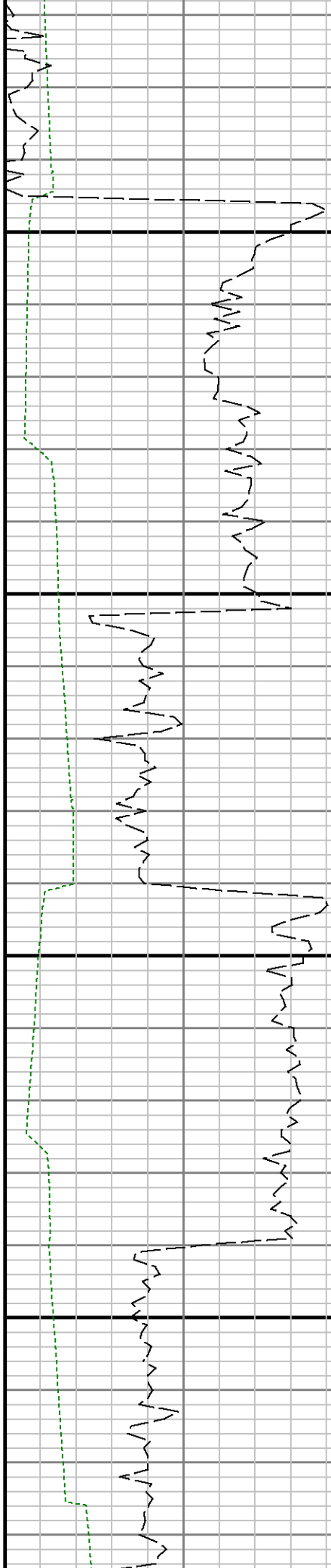
Interval : 6470.00 - 12710.00 feet

Created : 25/Jul/2015 2:39:38 PM



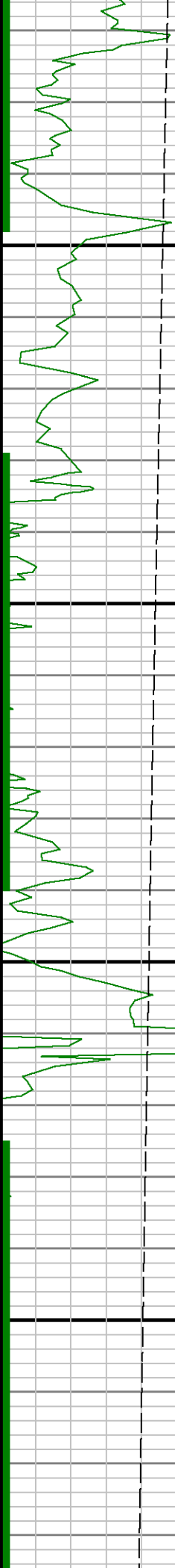
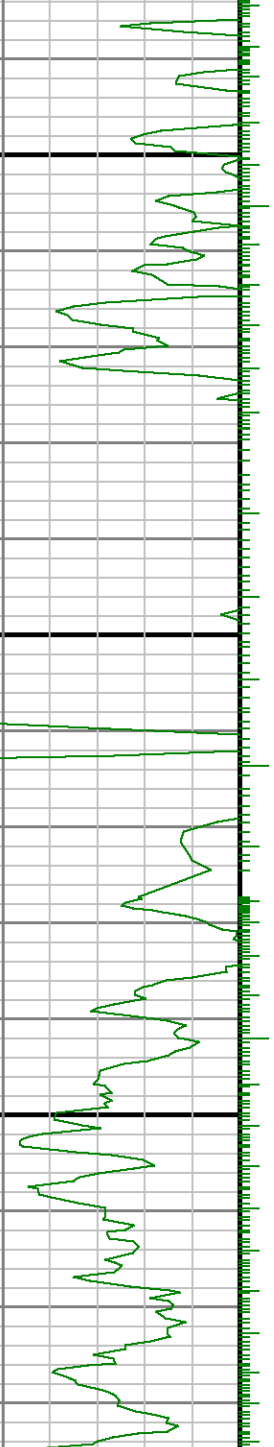


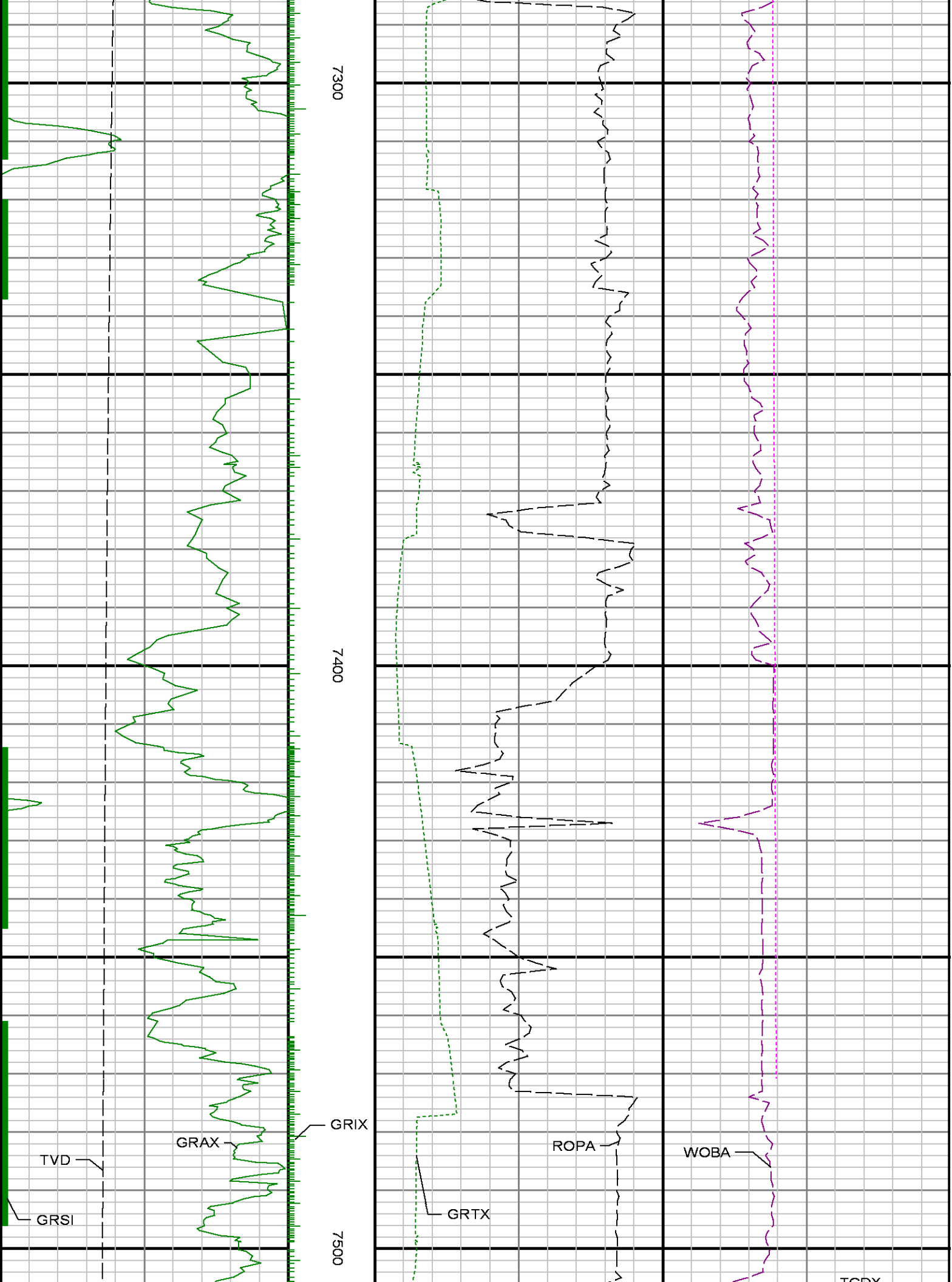


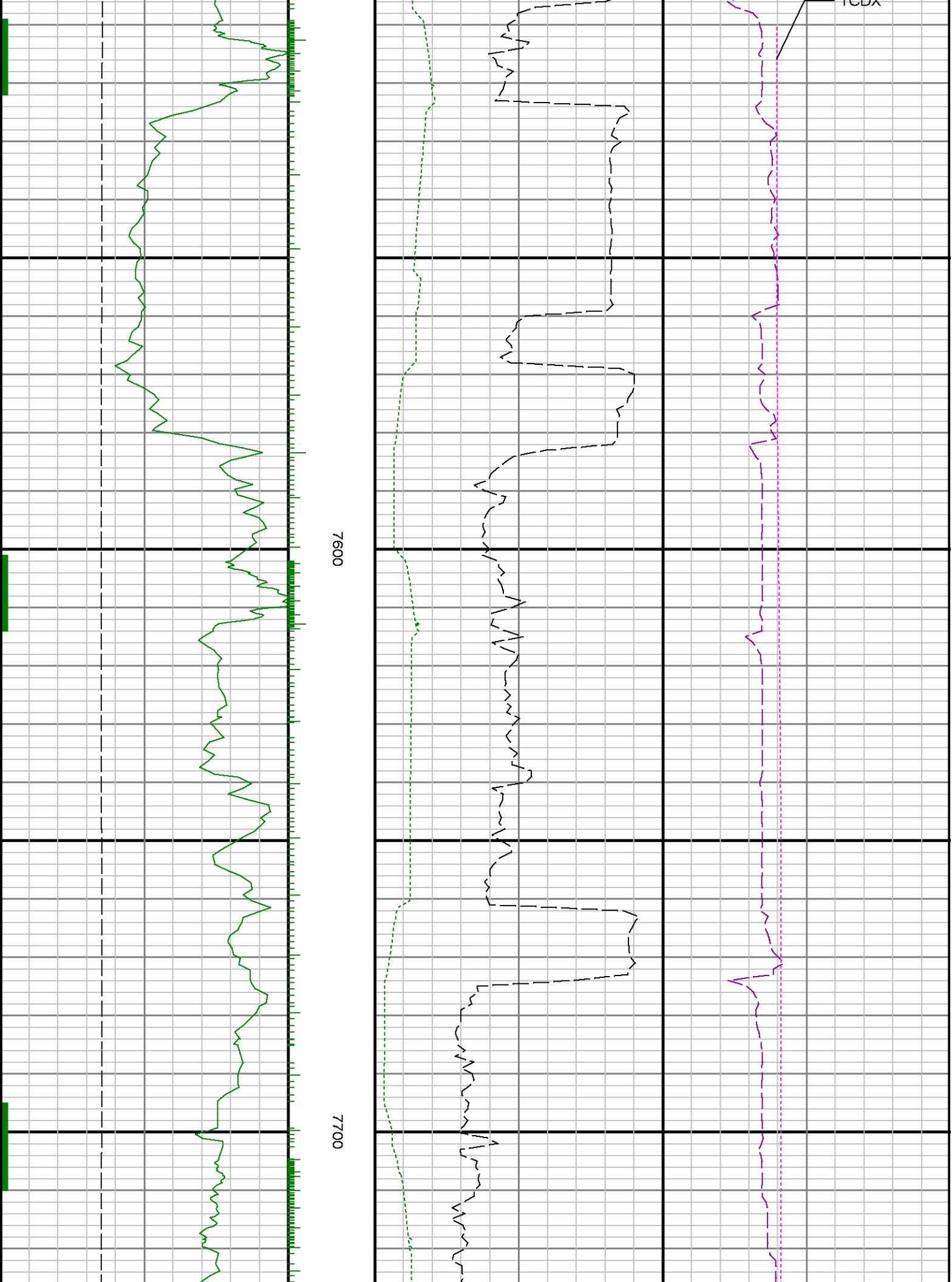


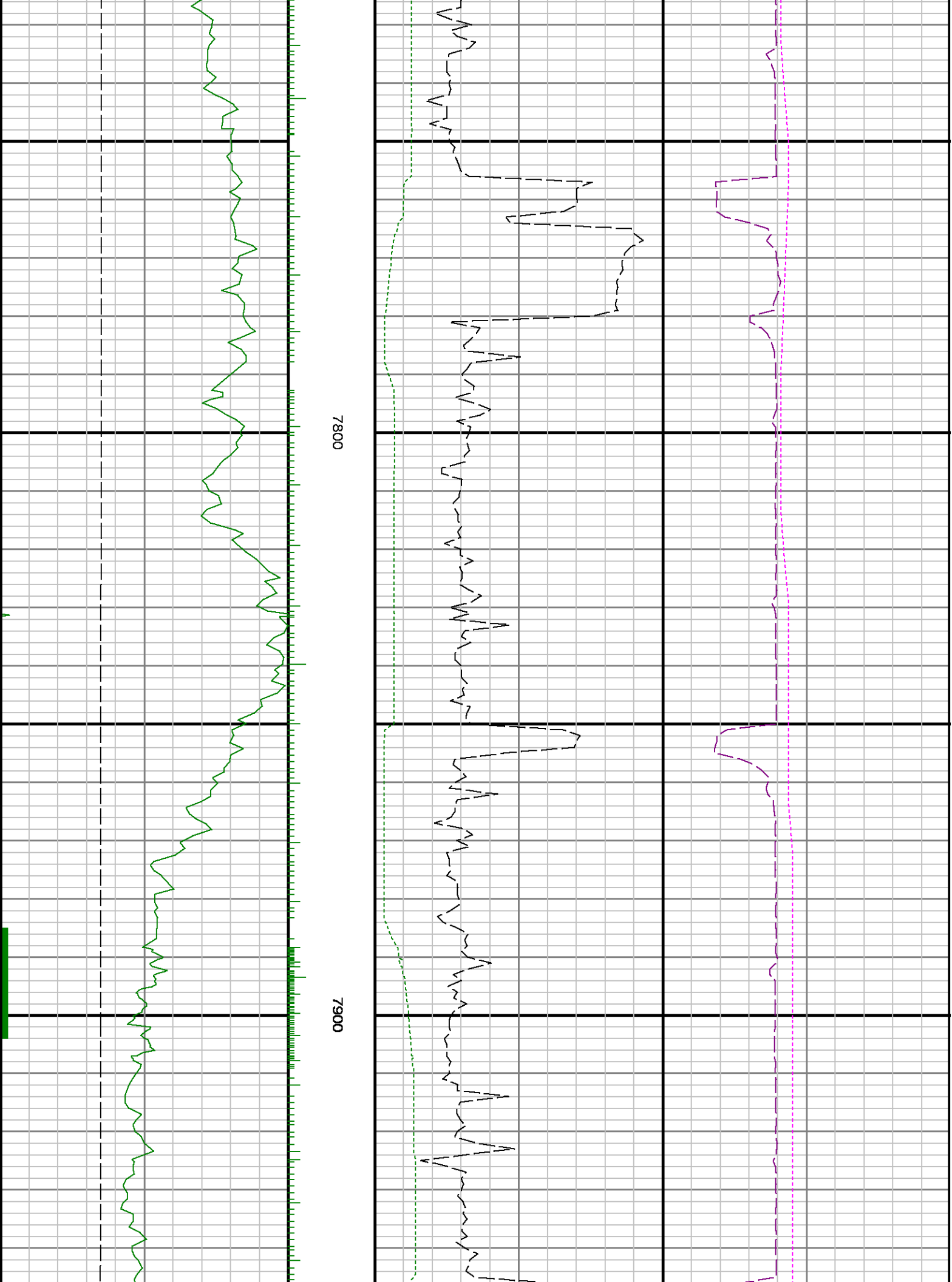
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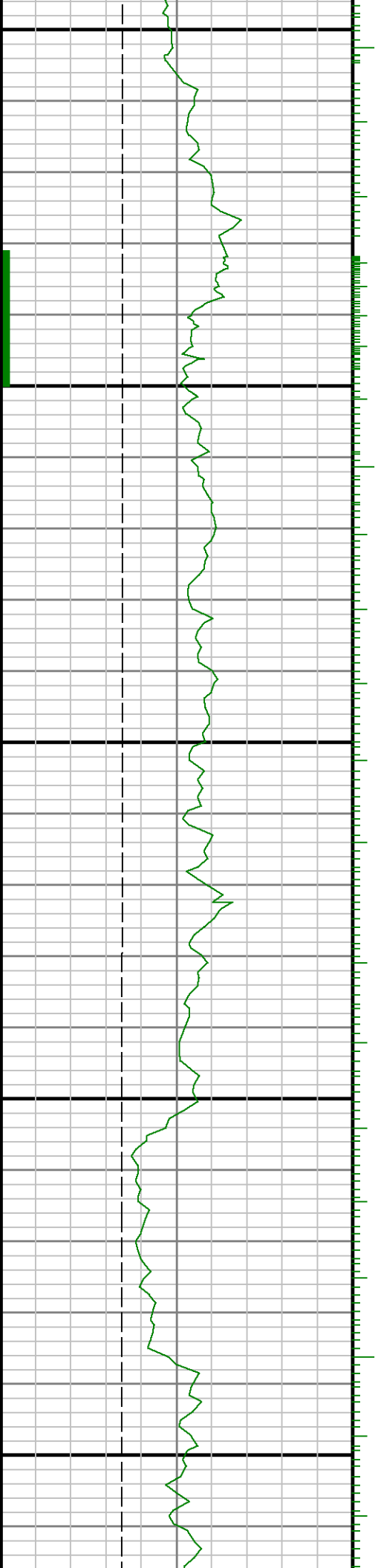
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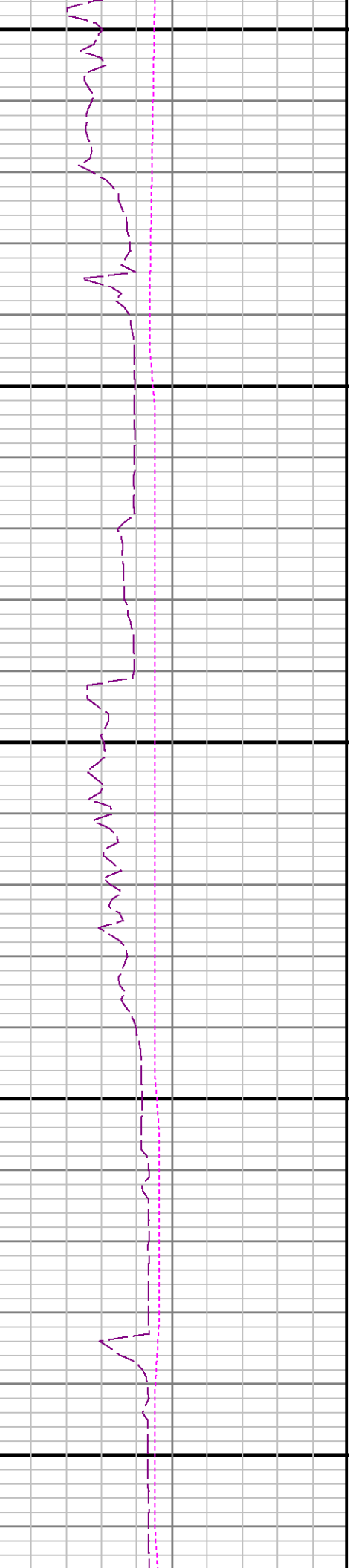
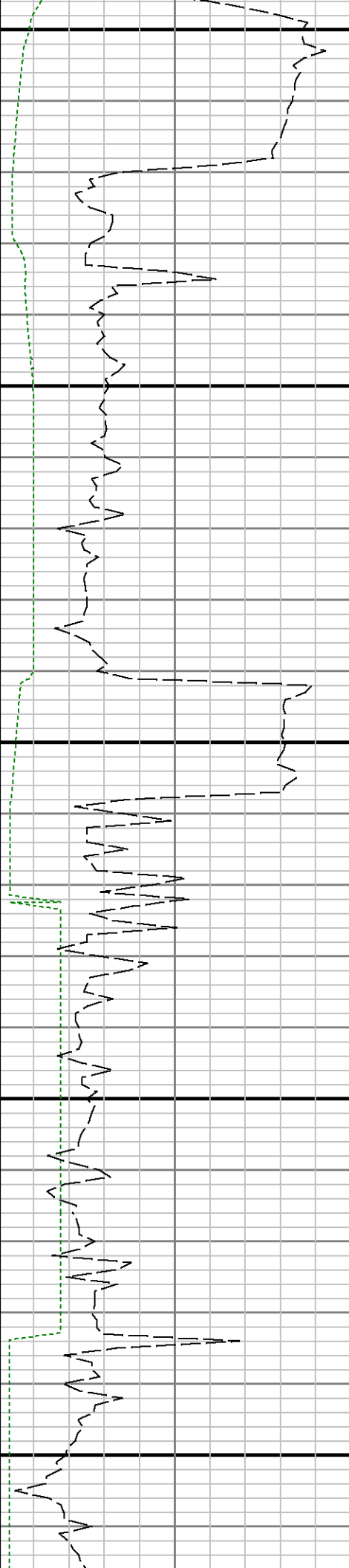


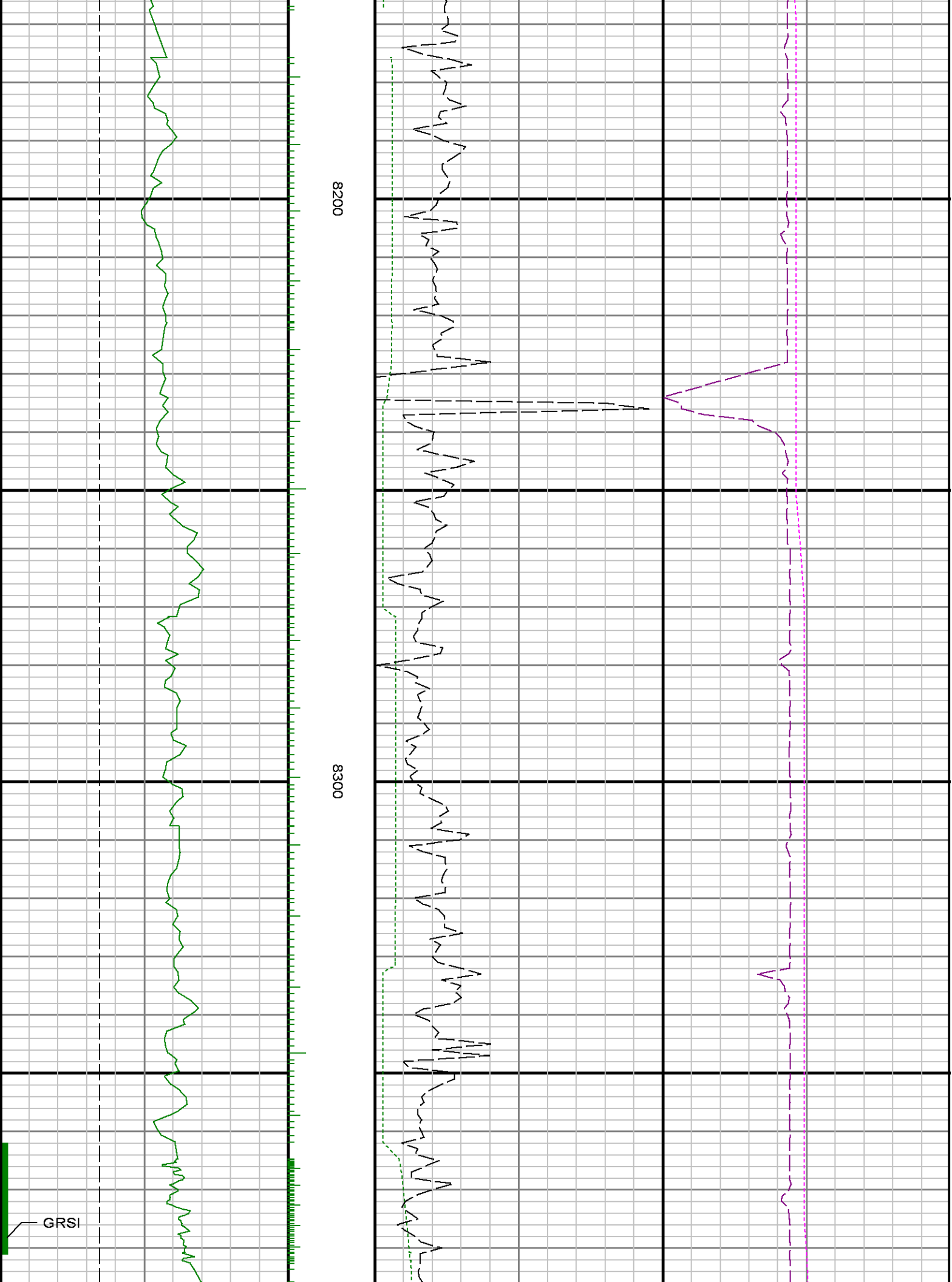


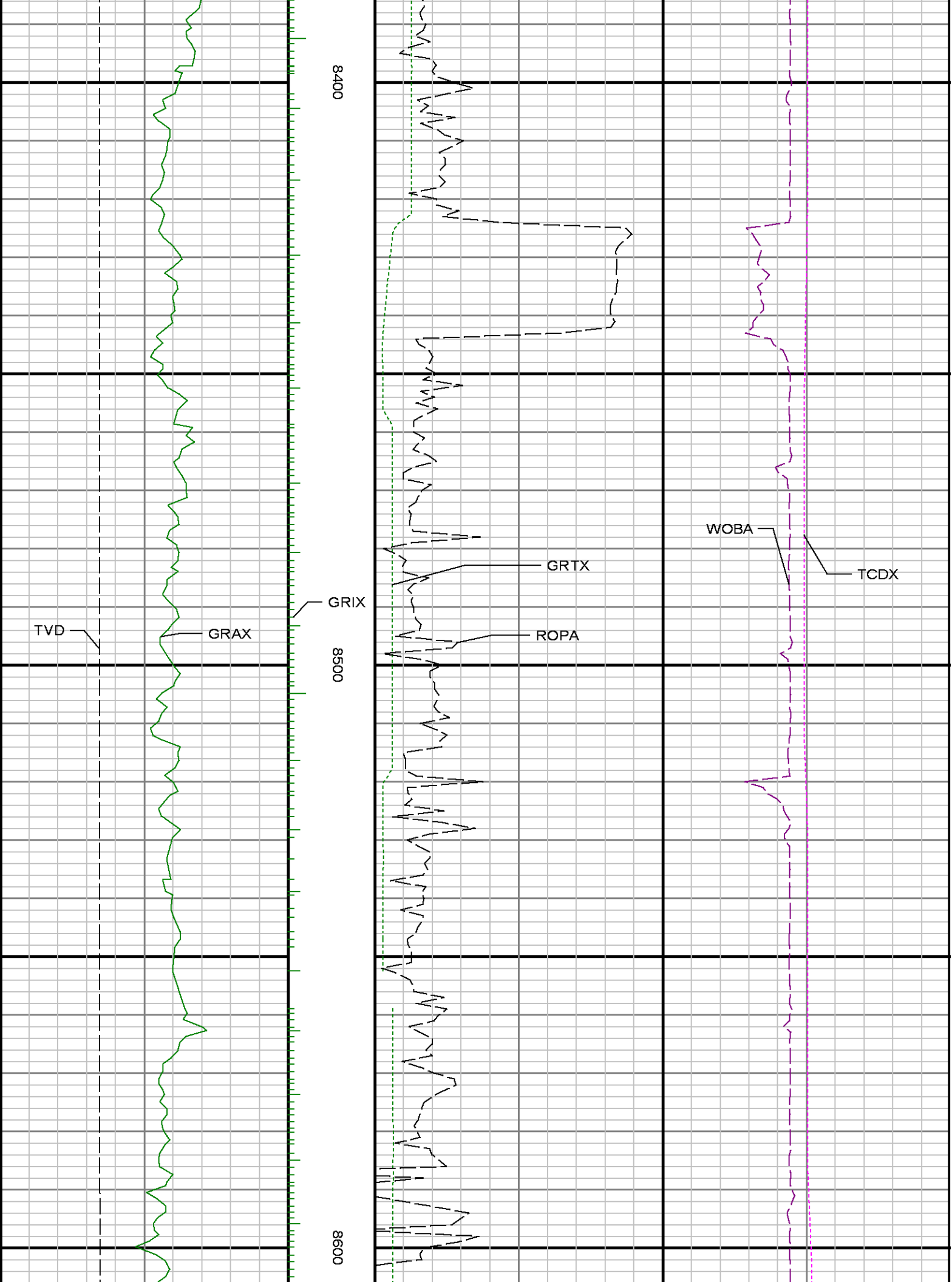


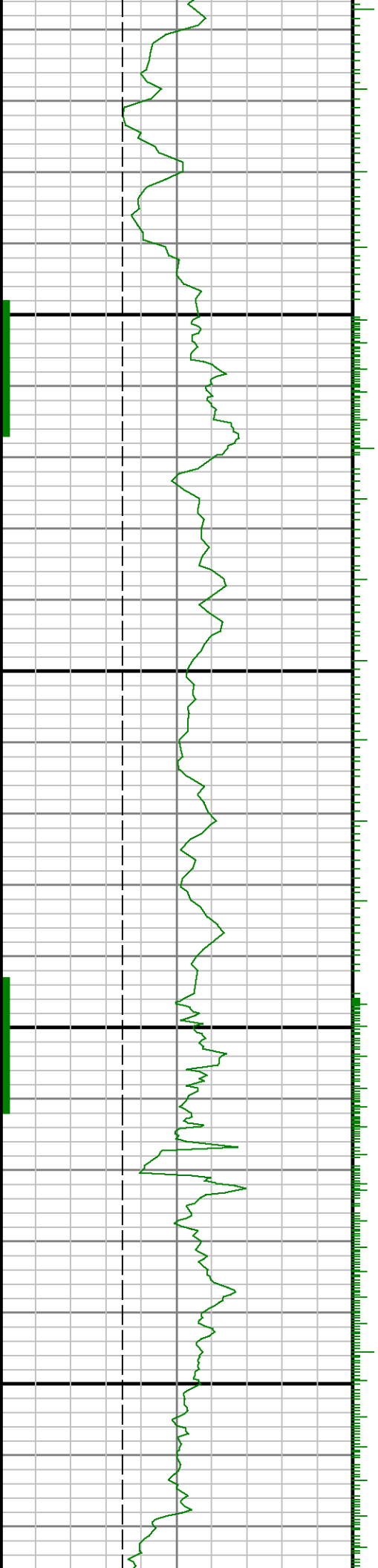
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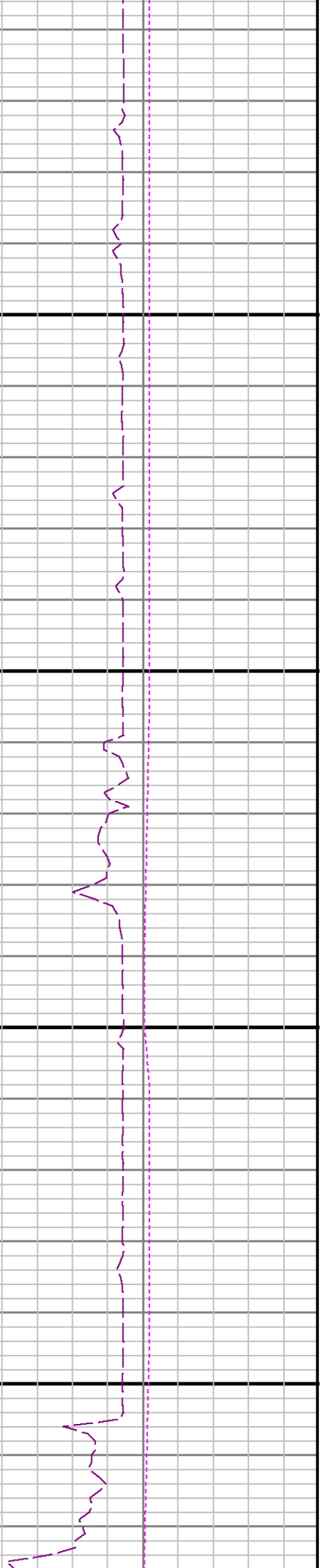
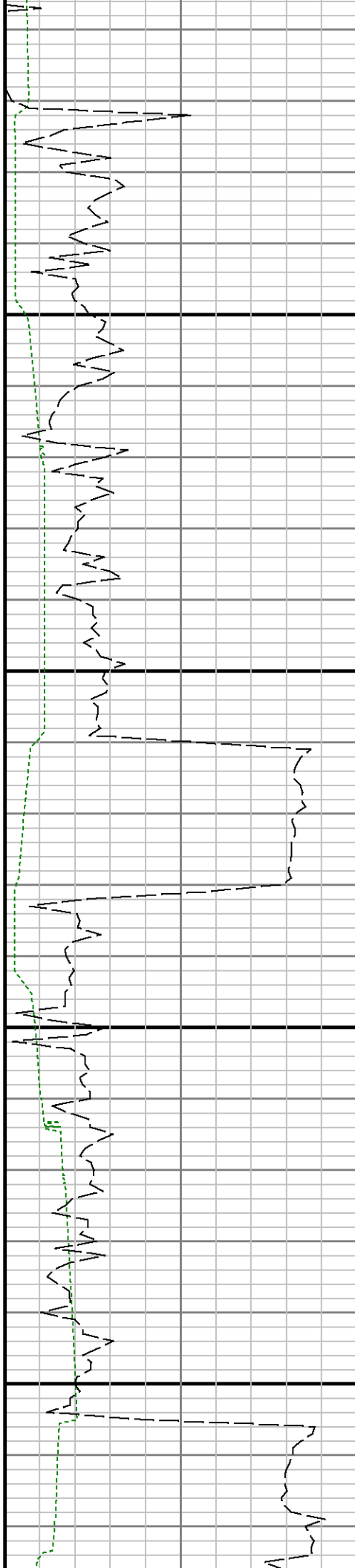


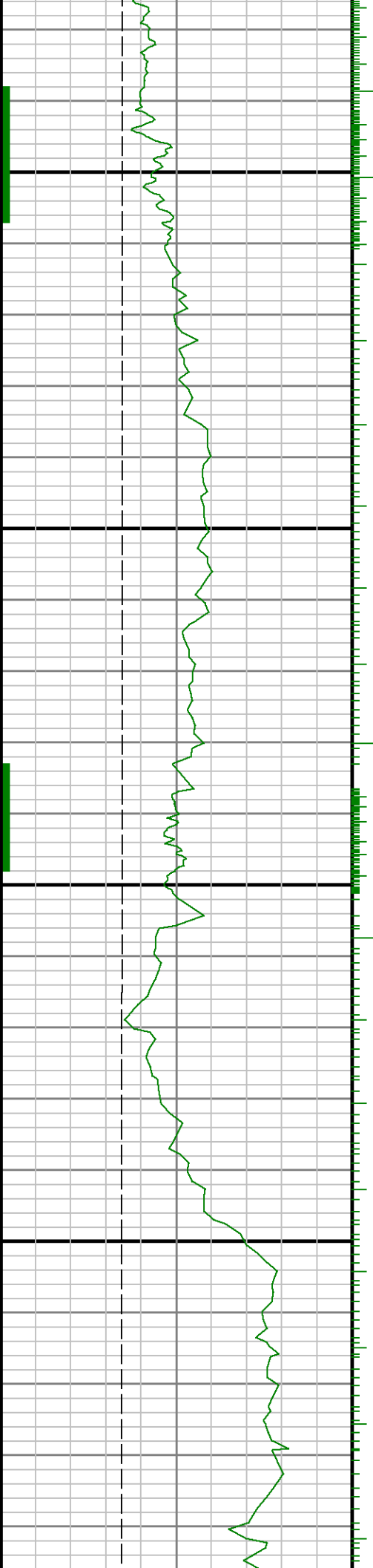




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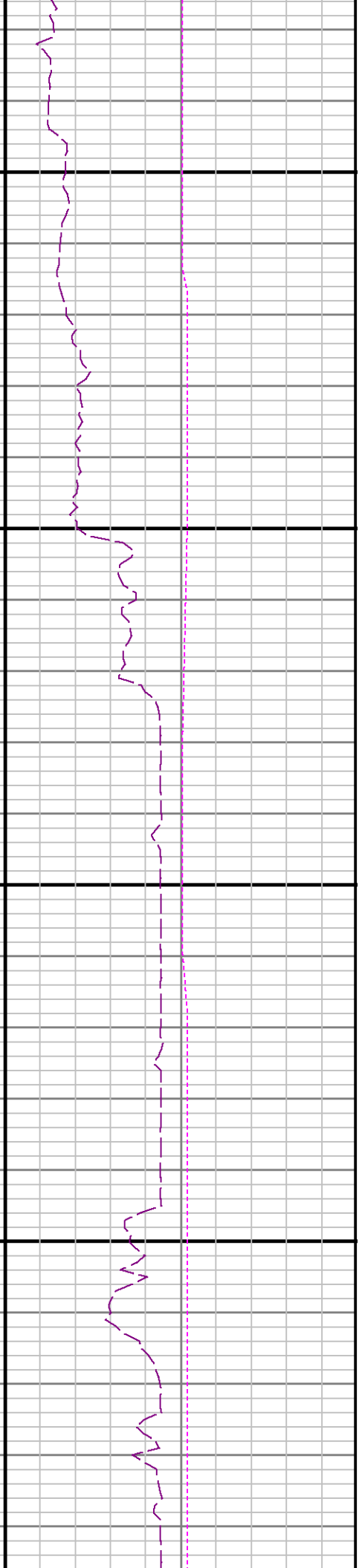
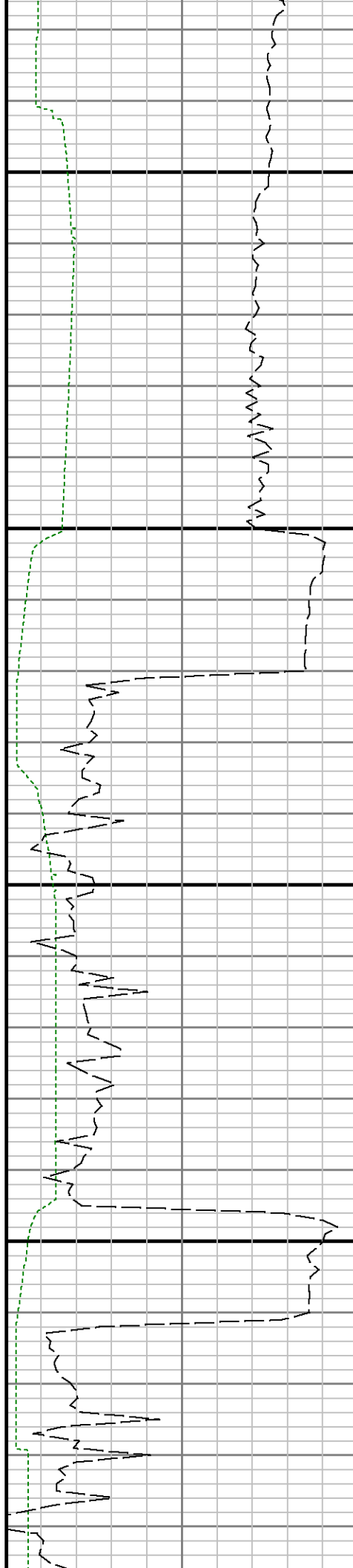
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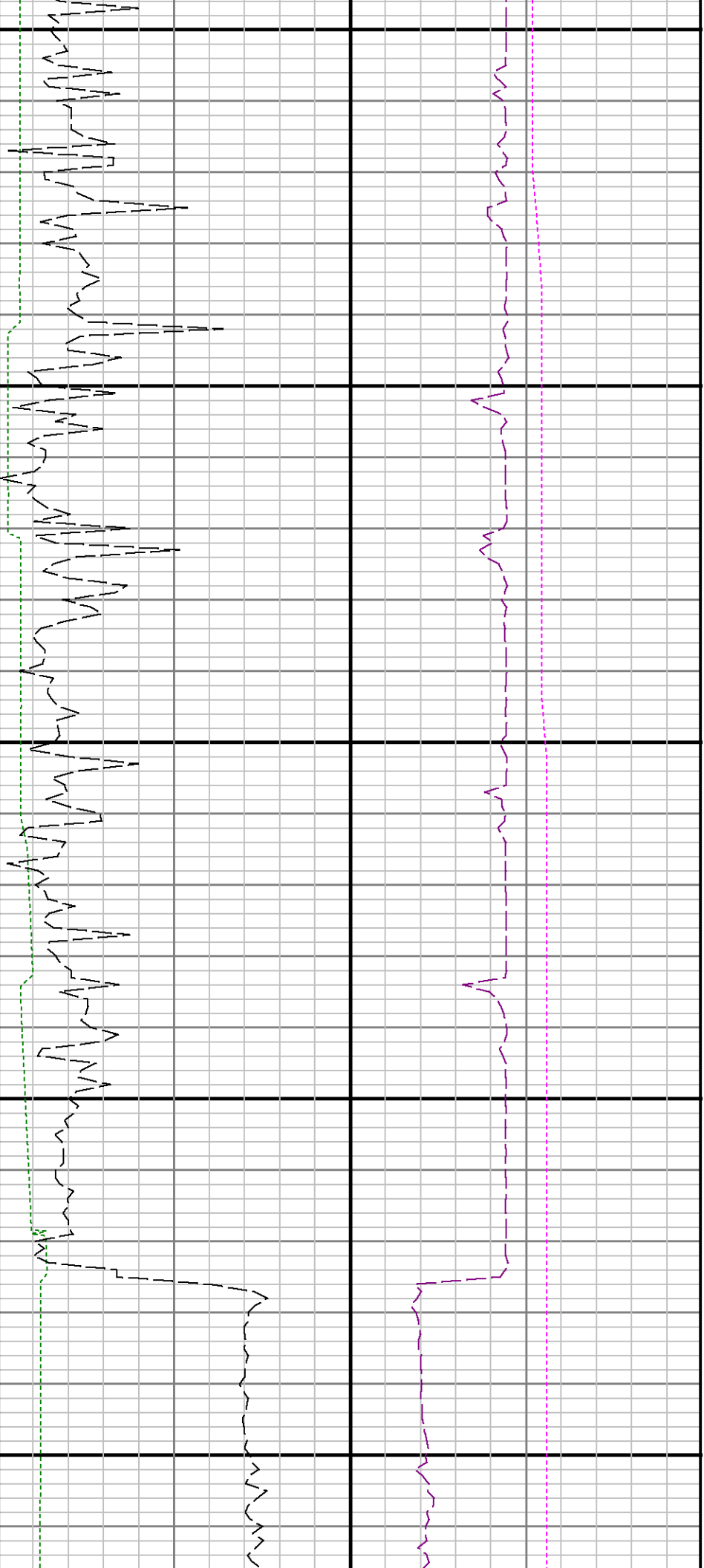




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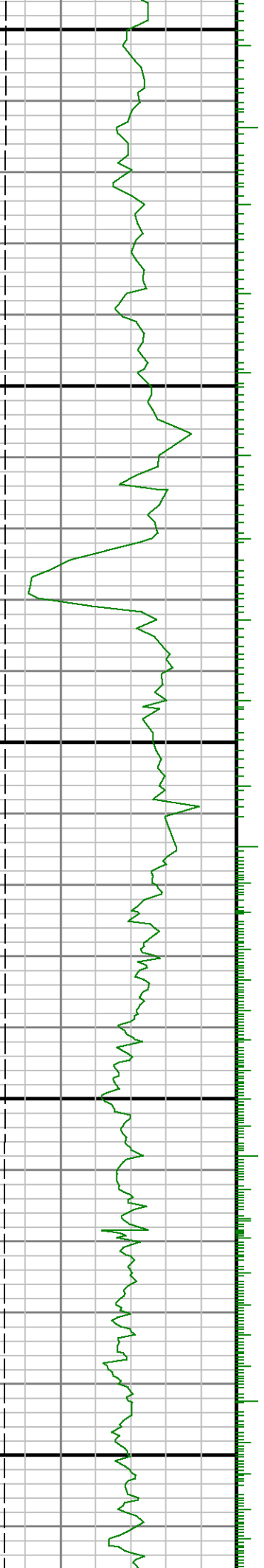
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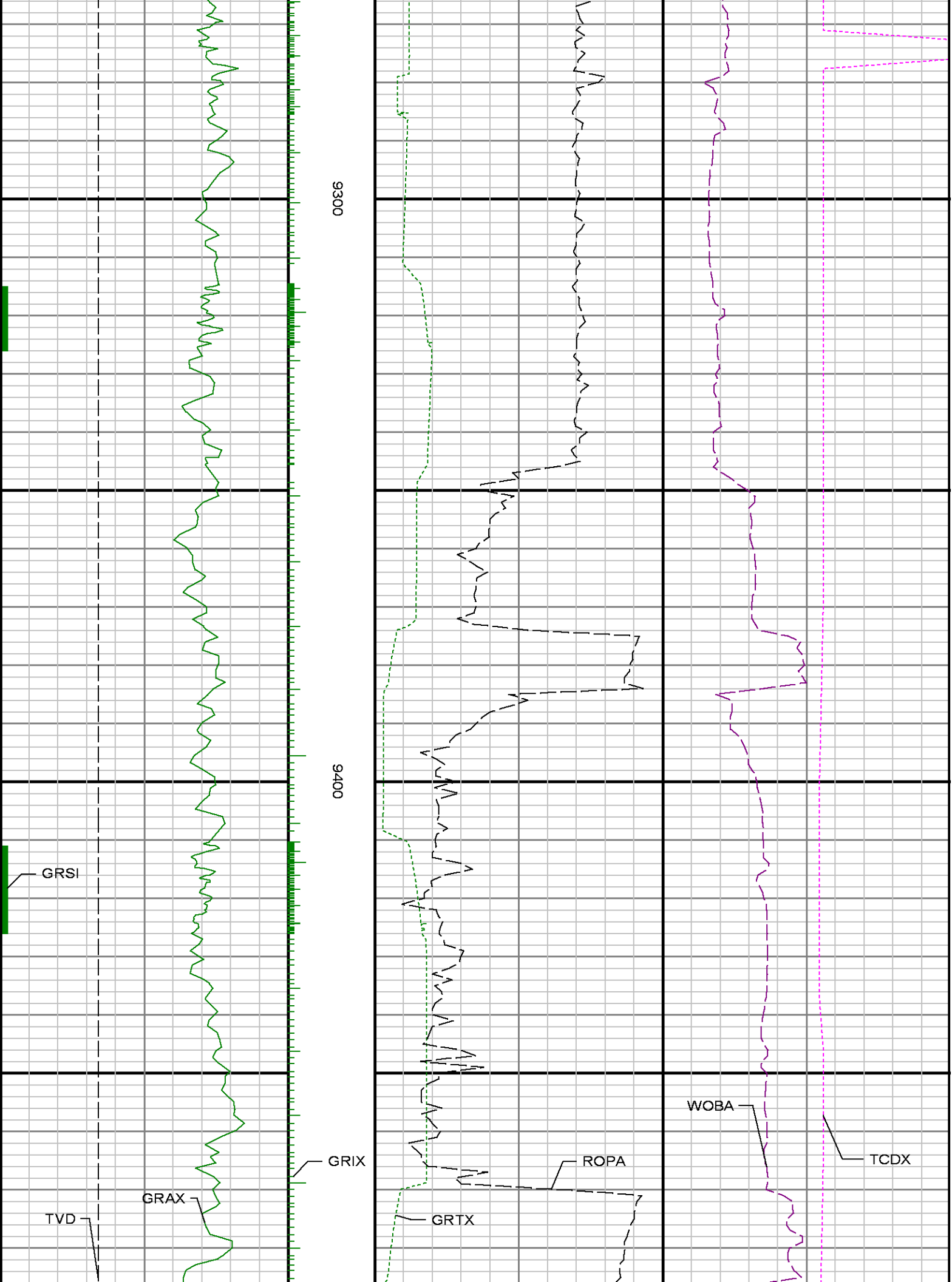




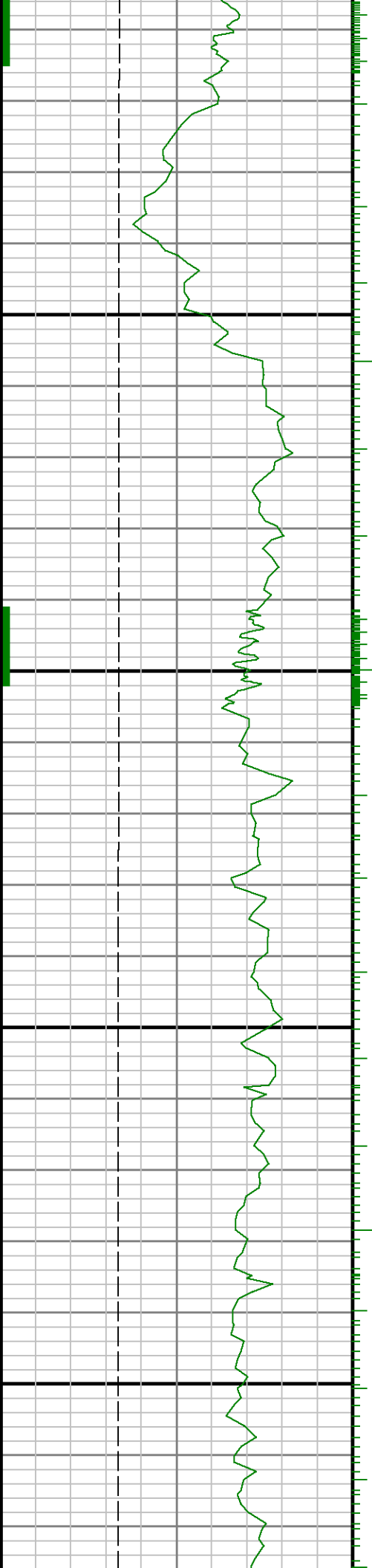
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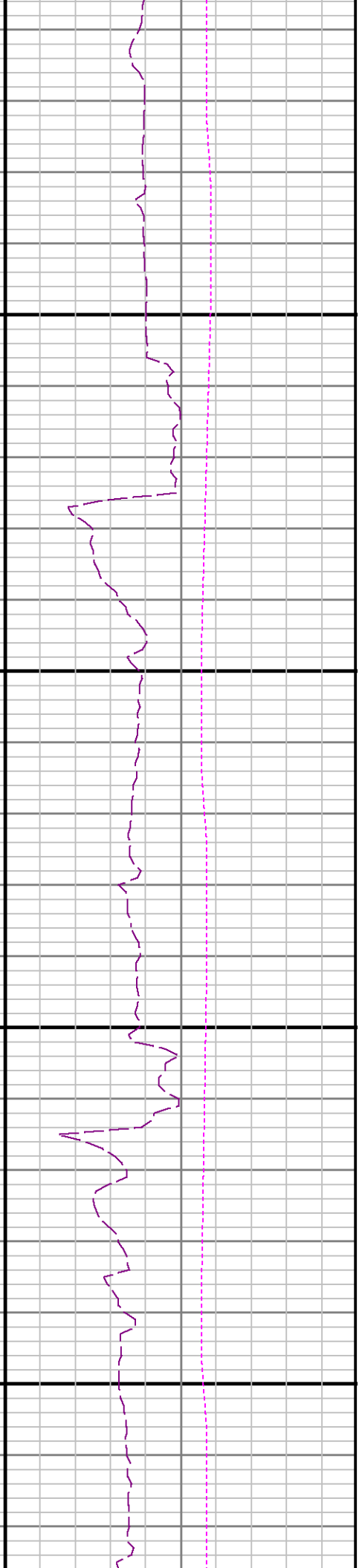
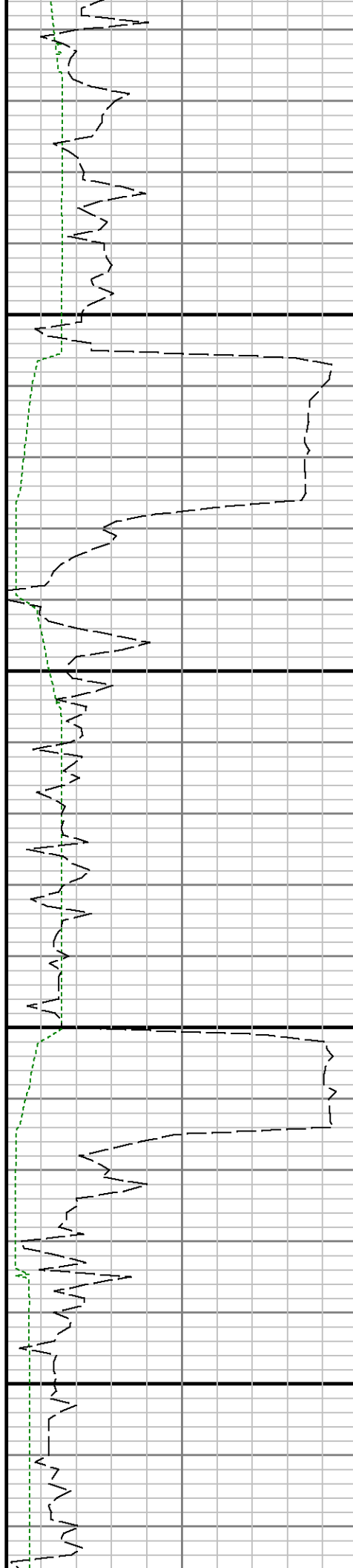


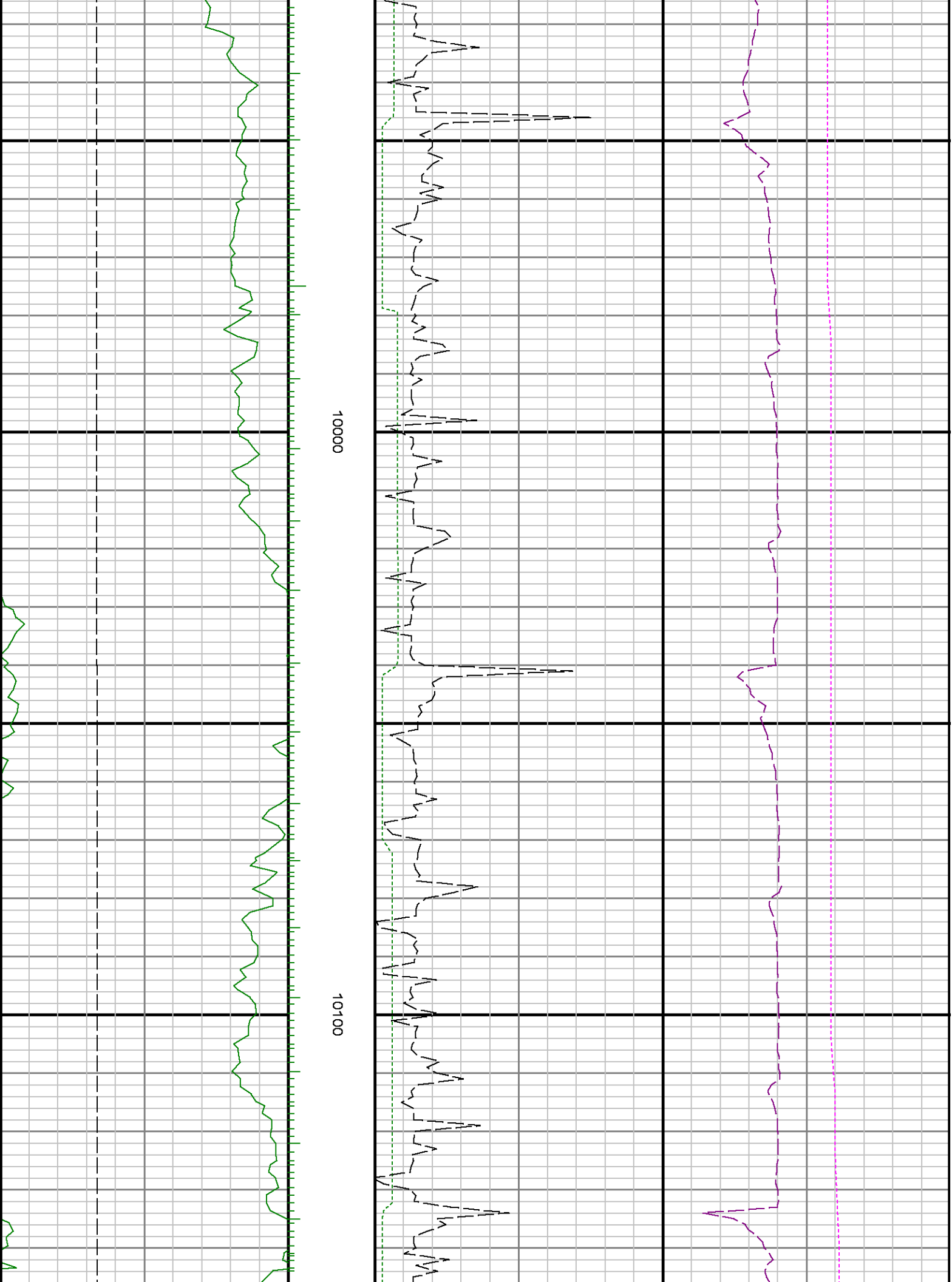


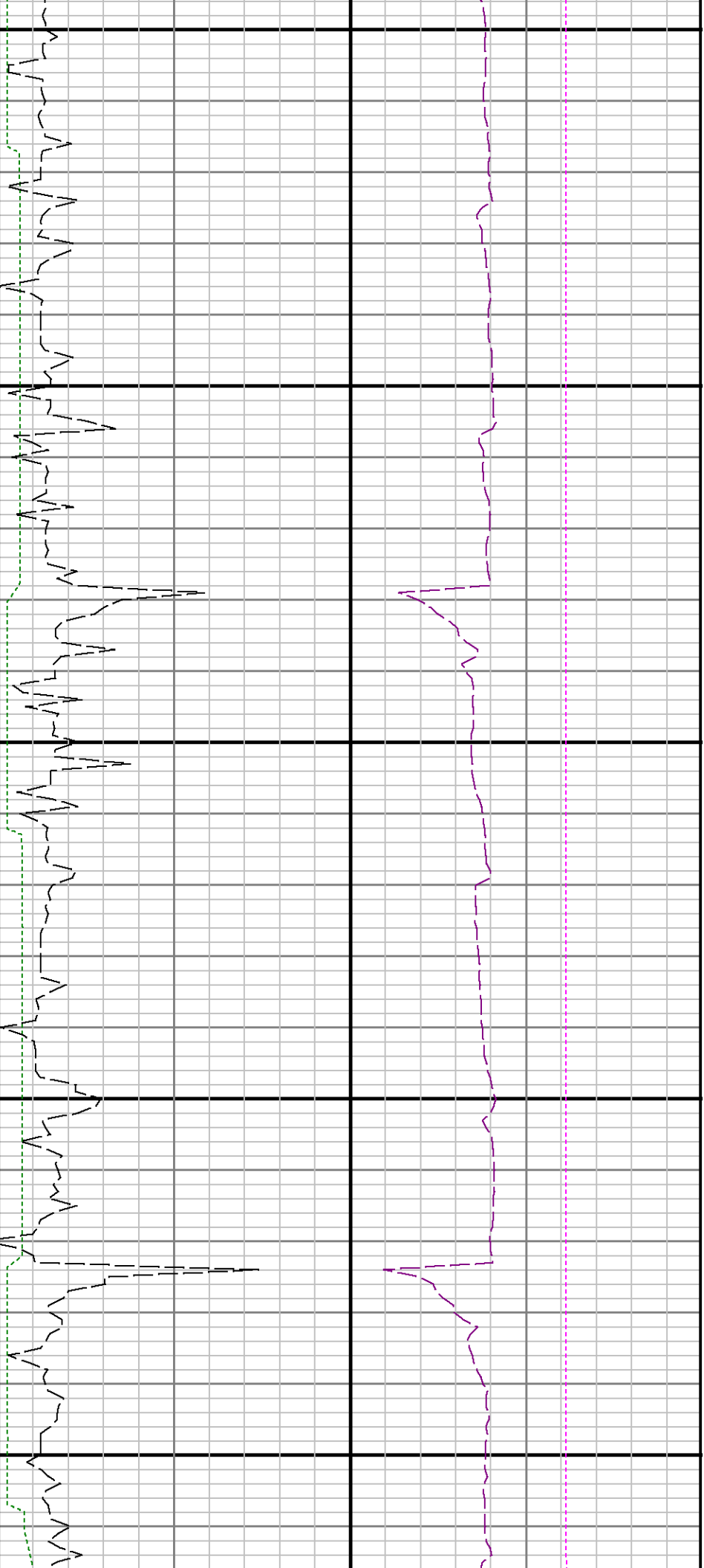


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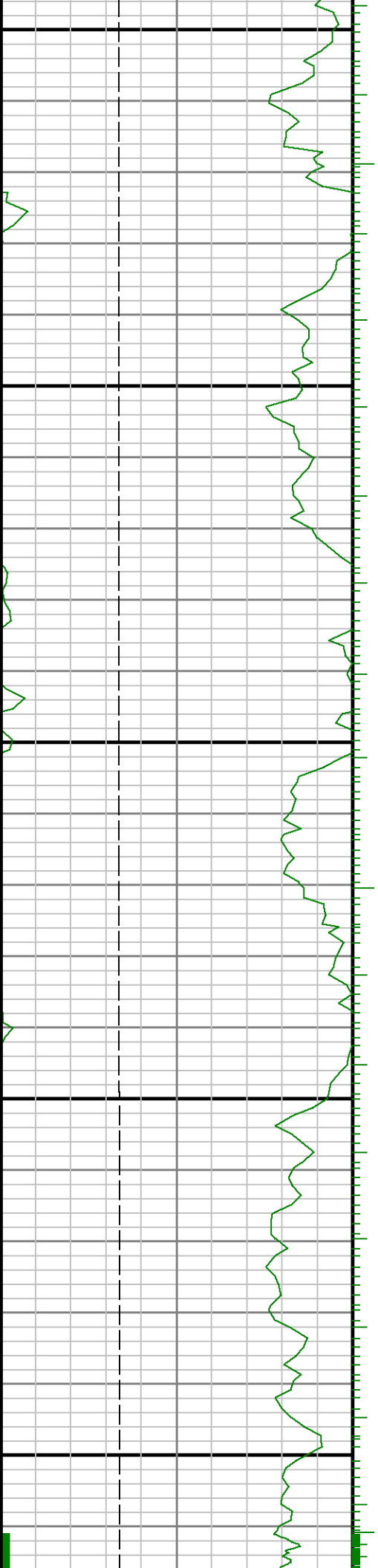


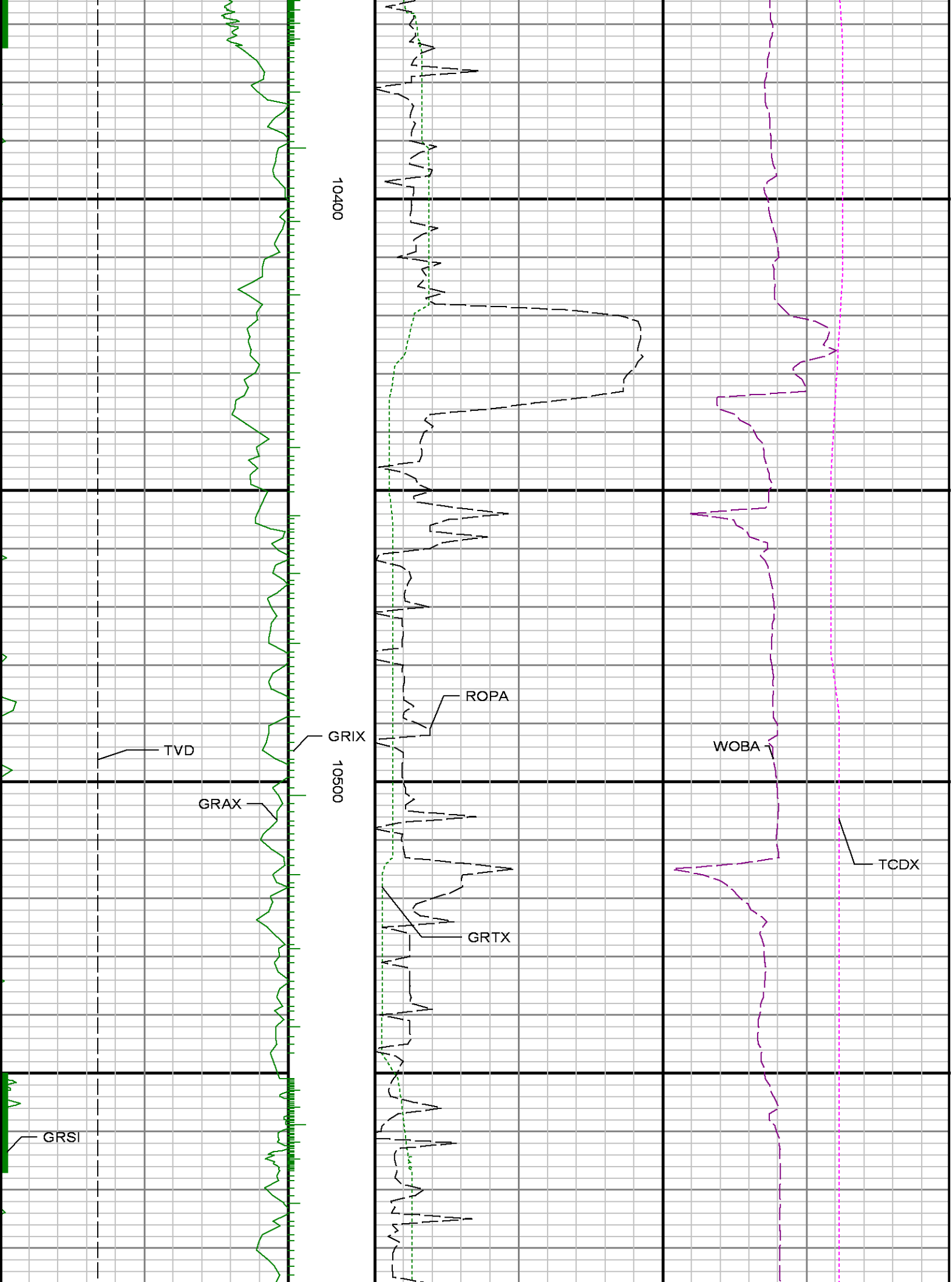


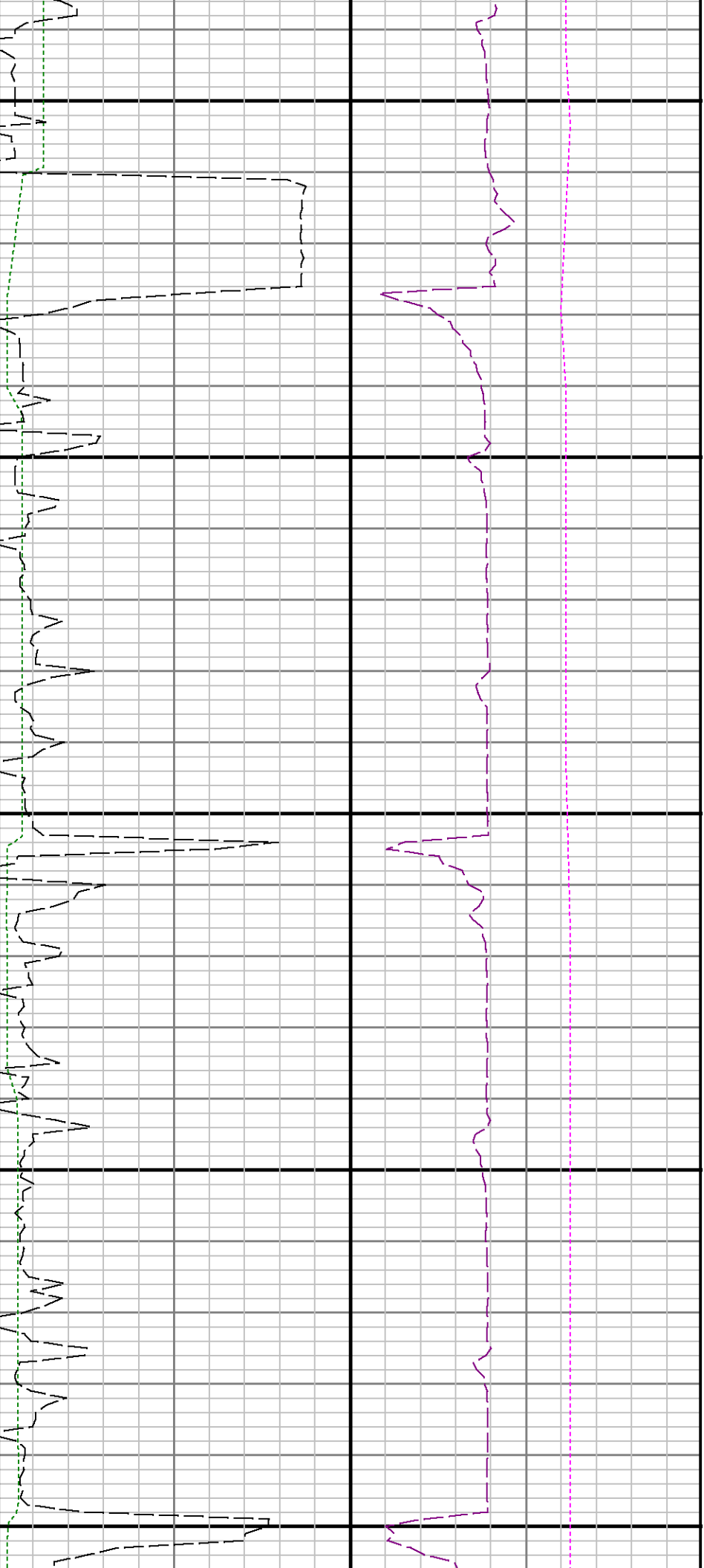


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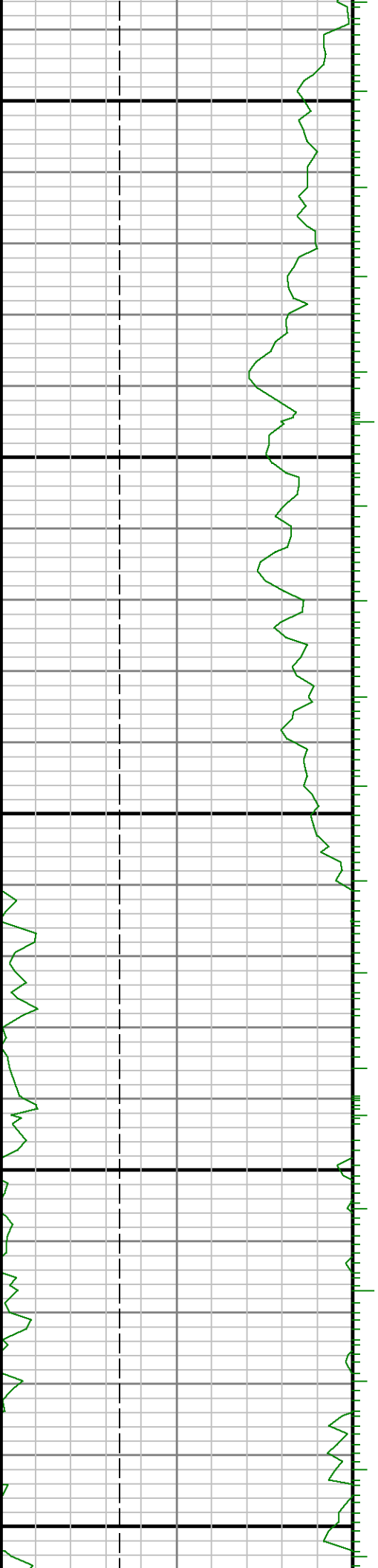


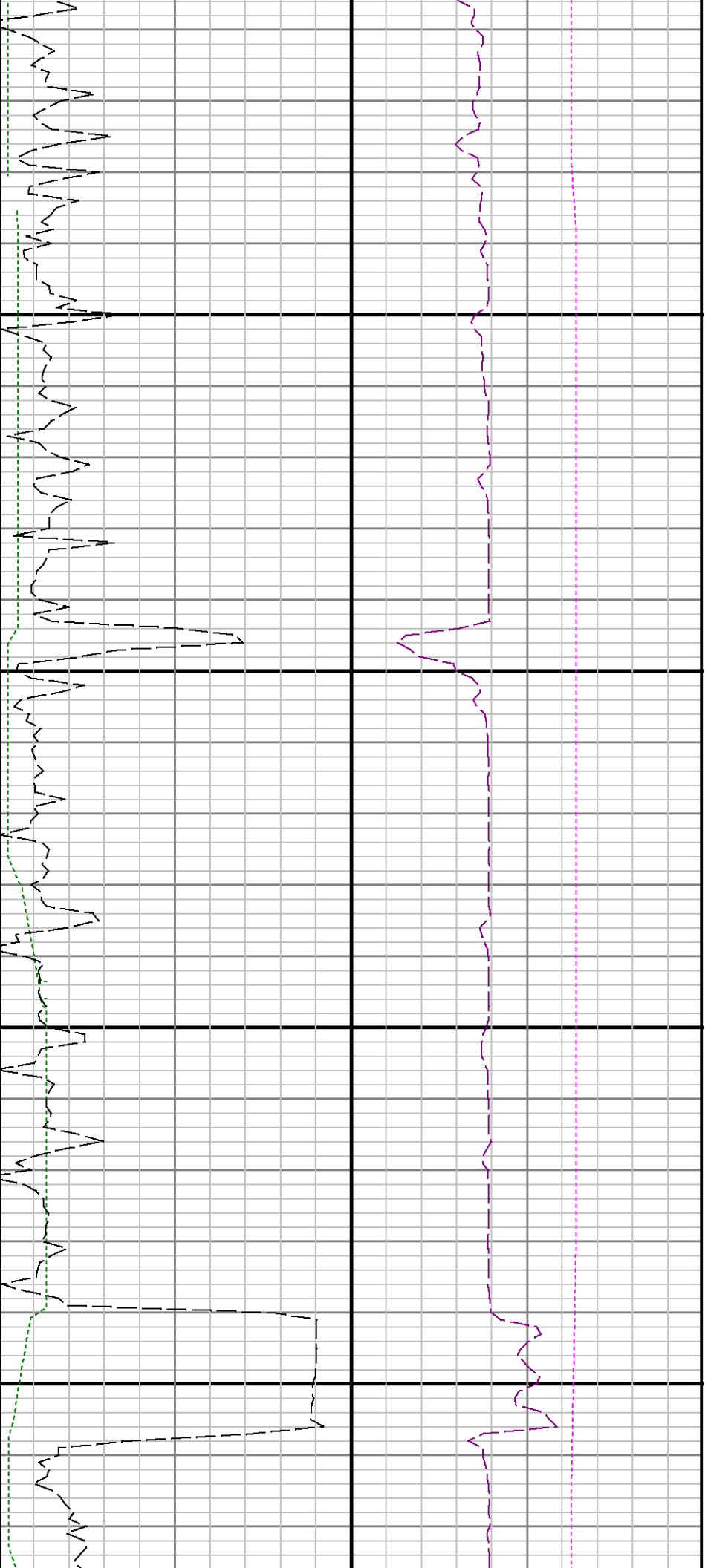


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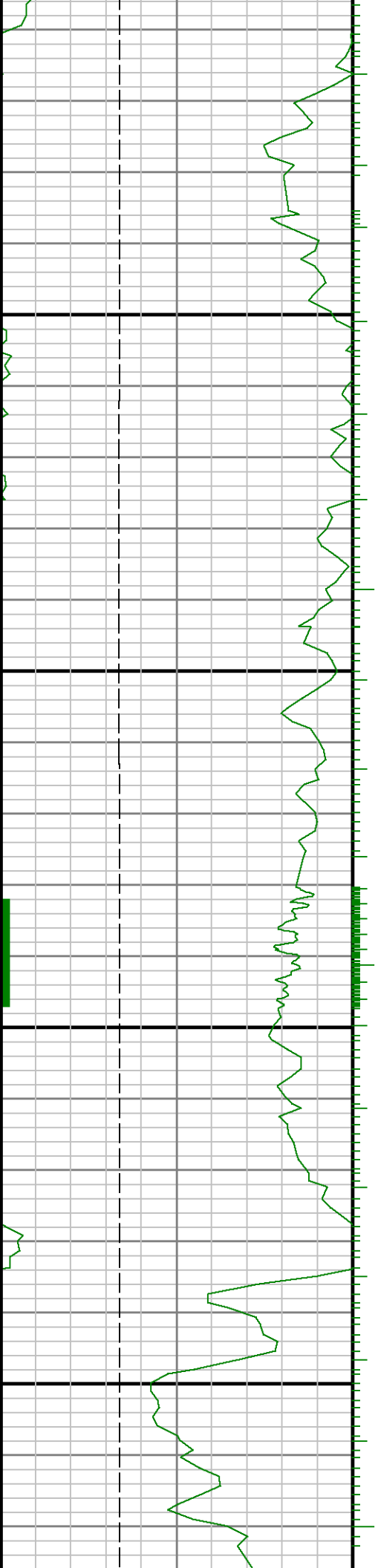
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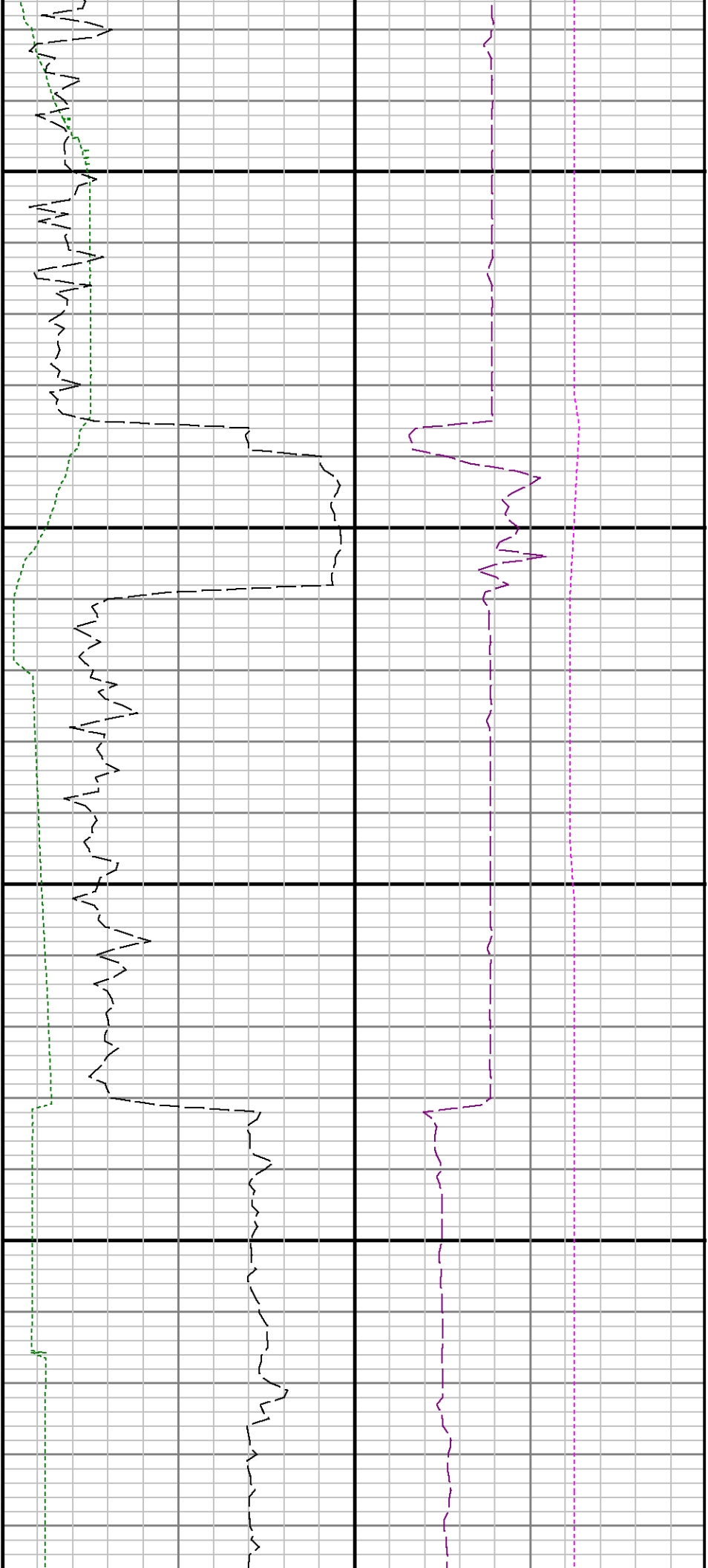




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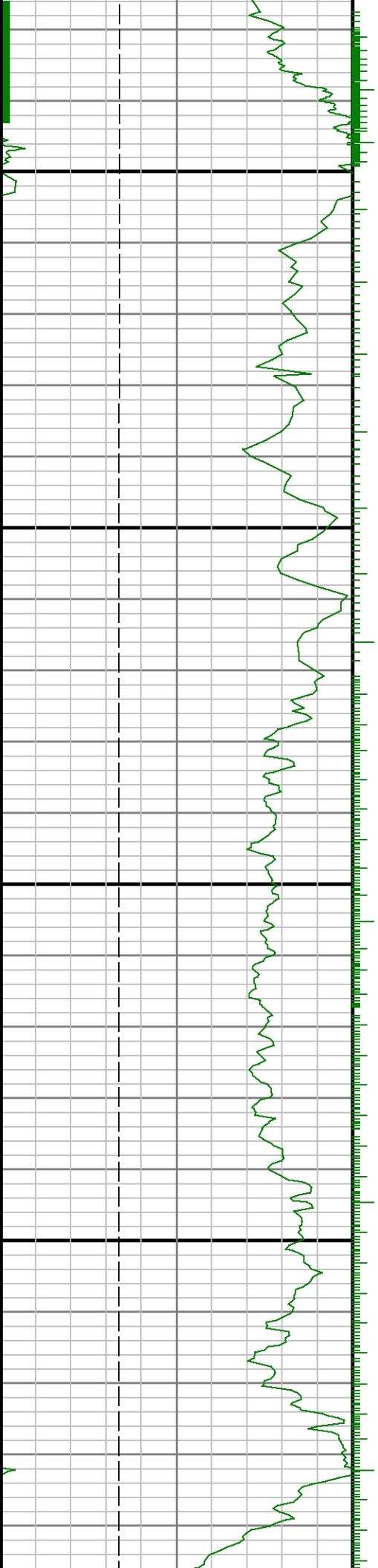
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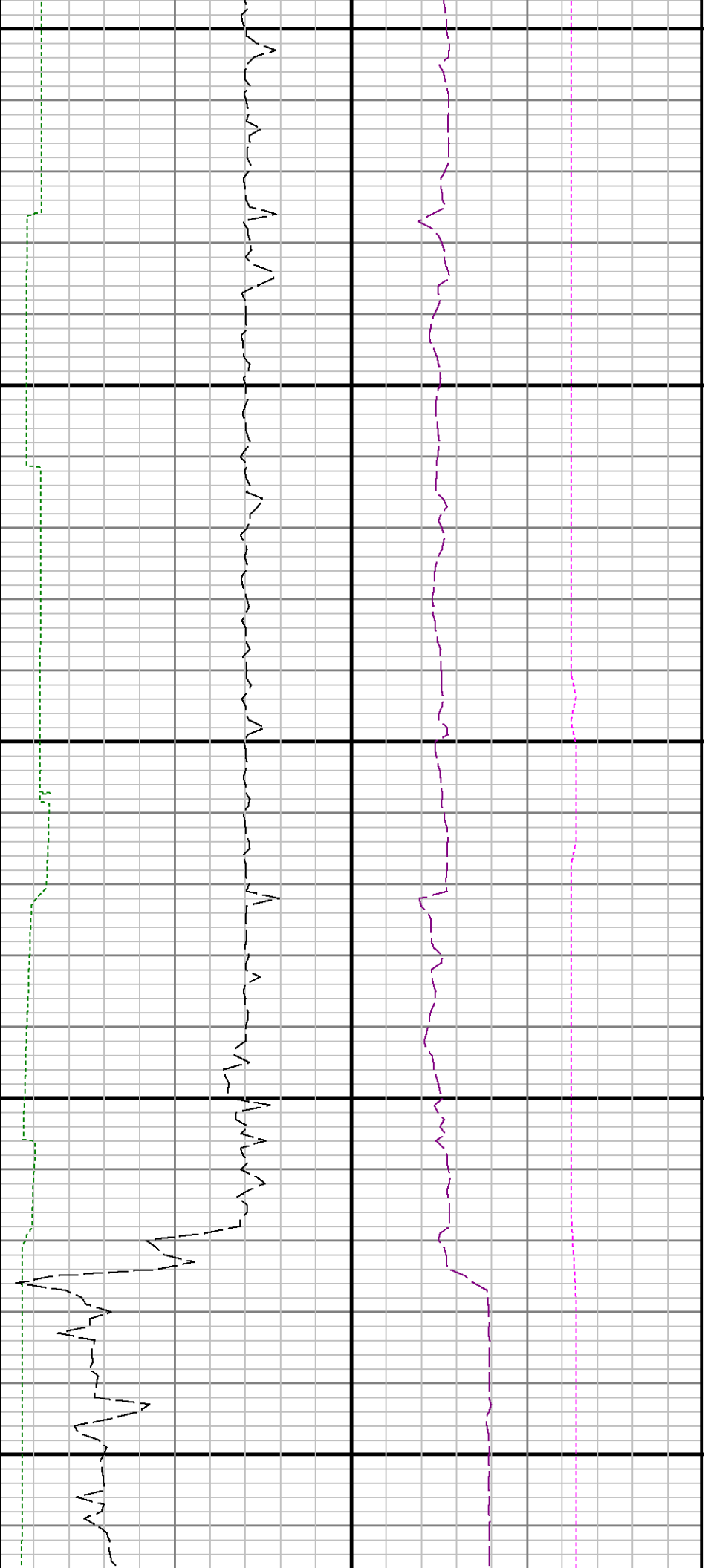




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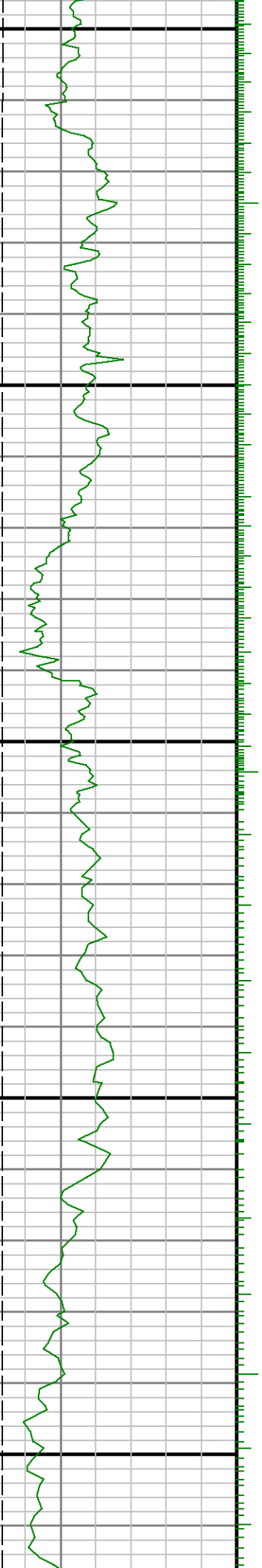
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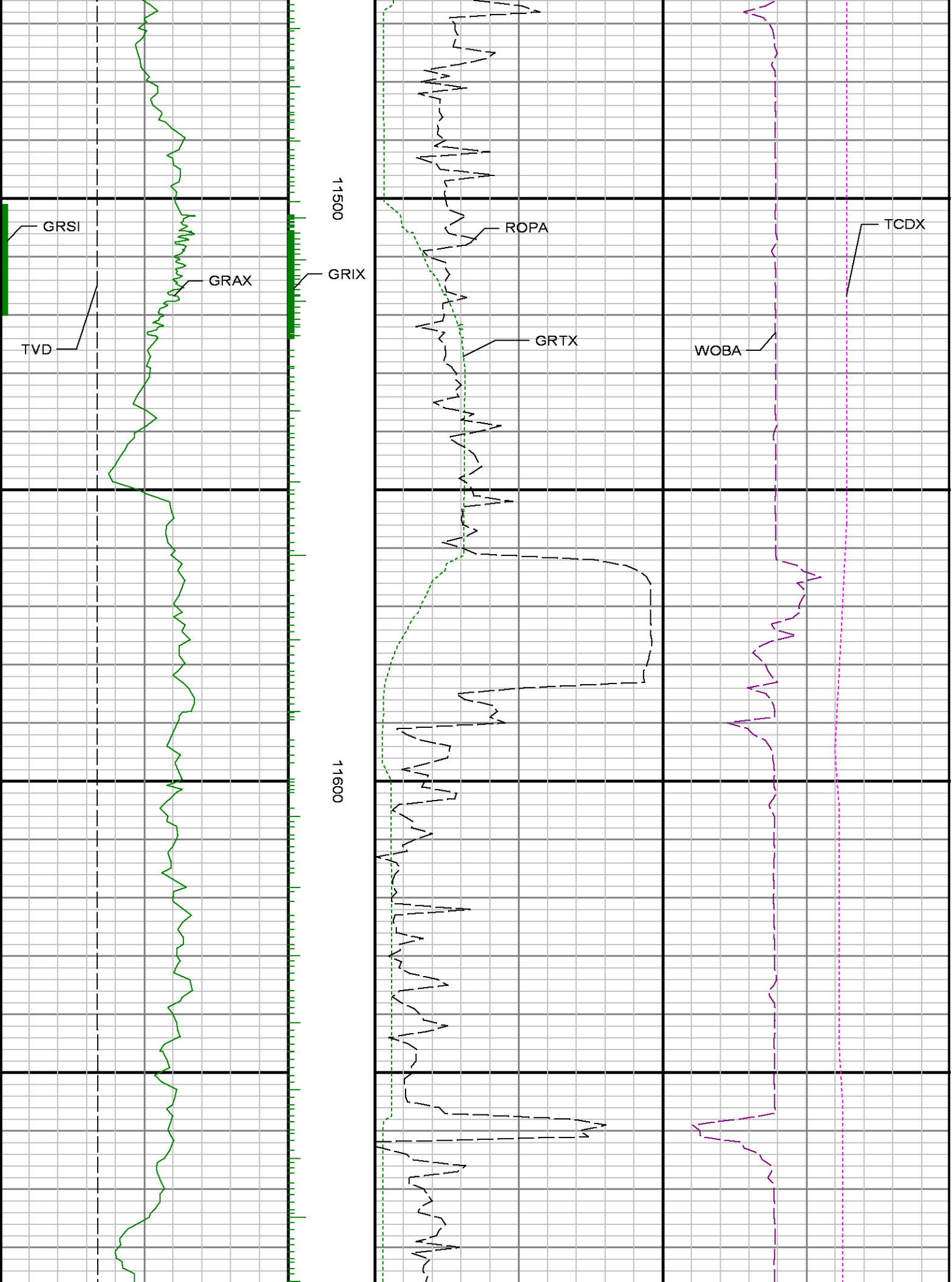


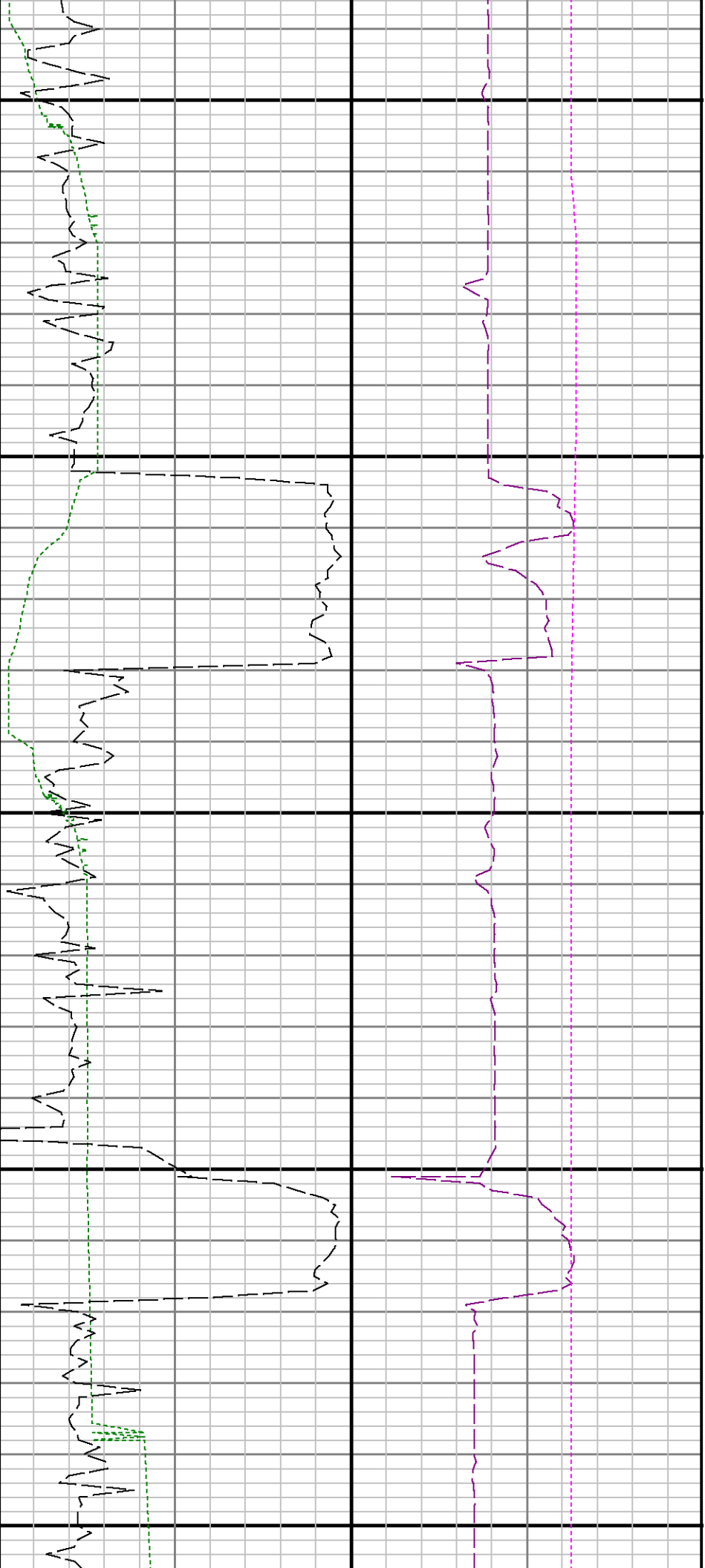


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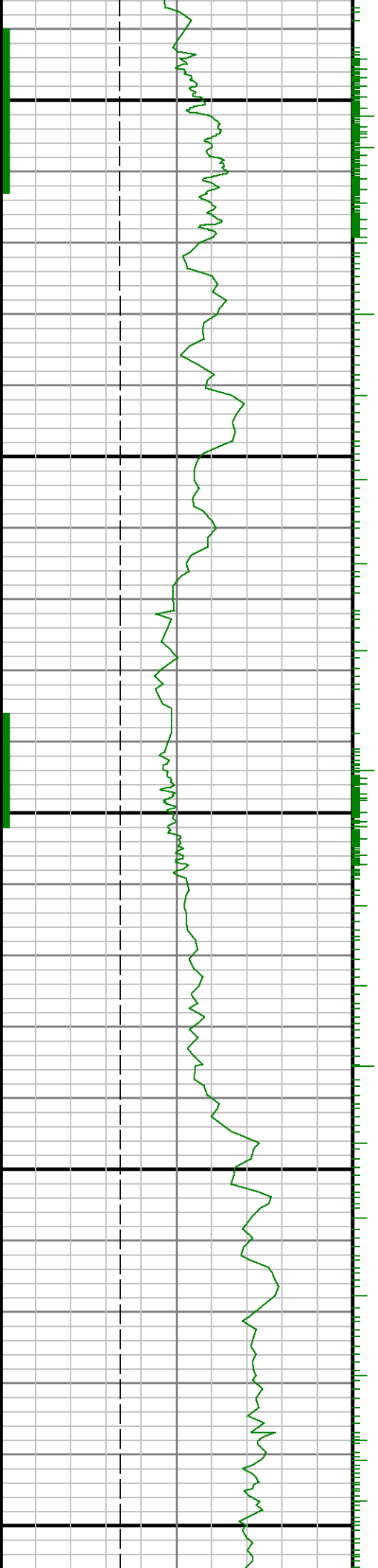




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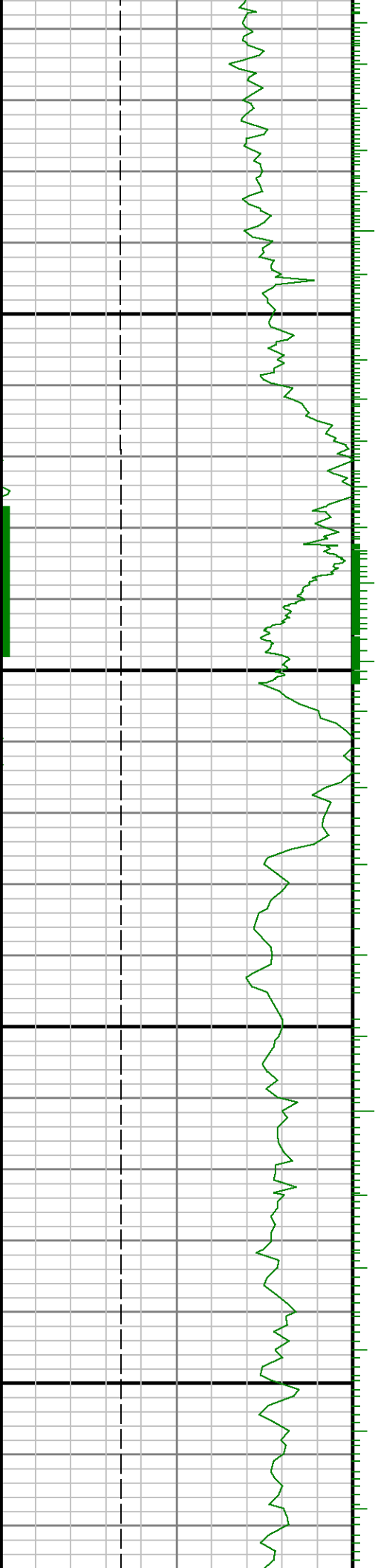
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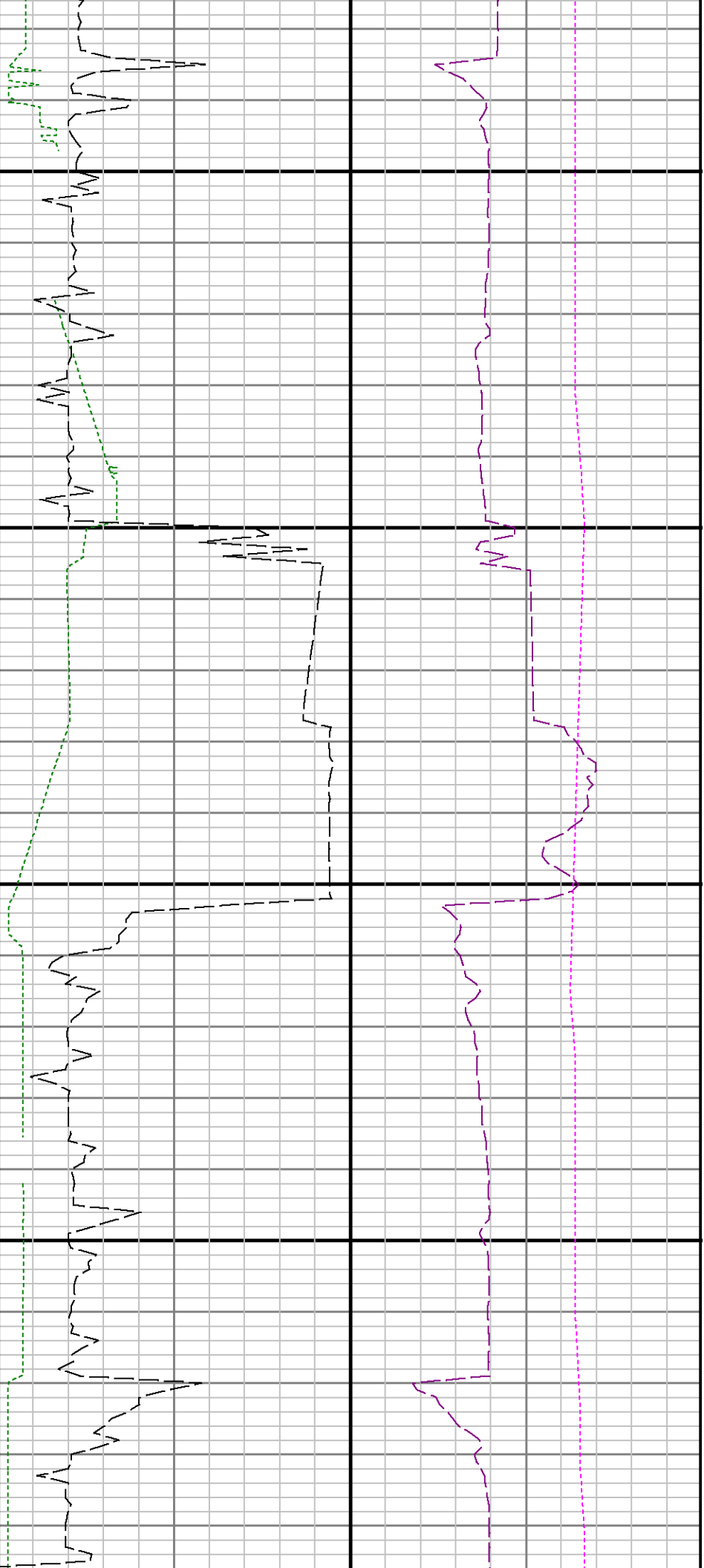




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