



REALTIME

Gamma Ray

Scale:

Company: Anadarko

1:240

Well: JDB 15-3HZ St 1

Measured Depth

Field: Wattenburg

Depth Reference:

County: Weld Country: United States

Driller's Depth

State: Colorado

Status:

Final Print

Surface Location:

Latitude: 040° 02' 44.322" N

Longitude: 104° 45' 28.051" W

Other Services:

API No: 05123492190100

Job ID: 109808402

SEC: 15 TWN: 1N RGE: 66W

Directional

Permanent Datum (P.D.): Ground Level

Elevation: 5153.00 ft

Elev. KB: 5170.00 ft

Elev. DF: 5153.00 ft

Log Measured From: Rig Floor

Above P.D.:

17.00 ft

Elev. GL: 5153.00 ft

Dates

Interval

Magnetic Field Reference

From: 2019-06-11

To: 2019-06-15

Drilled (ft)

1931.00

Logged (ft)

1931.00

Azi Reference North: True

Dip Angle: (deg)

66.21

Spud: 2019-06-11

Top: 1931.00

Bottom: 13721.00

Top: 1931.00

Bottom: 13674.00

Total Magnetic Field Strength: (nT)

Mag to Reference North Correction: (deg)

52179

Spud: 2019-06-11

Bottom: 13721.00

Bottom: 13674.00

Mag to Reference North Correction: (deg)

Mag to Reference North Correction: (deg)

Mag to Reference North Correction: (deg)

Mag to Reference North Correction: (deg)

7.82

Borehole Record

Casing Record

Hole Size (in)

From (ft)

To (ft)

Size (in)

Weight (lb/ft)

From (ft)

To (ft)

13.500

17.00

1931.00

9.625

25.00

17.00

1921.00

7.875

1931.00

13721.00

7.875

11790.00

25.98

74.98

95.00

180.07

Mud Record

Deviation Record

Type

From (ft)

To (ft)

Hole Size (in)

Interval (ft)

Inc | Az (Start)

Inc | Az (End)

Diesel-Oil Based Mud

1931.00

13721.00

7.875

11790.00

25.98

74.98

95.00

180.07

Acquisition System

Software Version

Other

Cadence

RT 5.2

1.0.8425.1

Rig:

Akita 522

Contractor:

Akita

RMA

Unit: D & E

DeliverableGen

1.0.8425.1

District:

RMA

Unit: D & E

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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 (h)
						Top (ft)	Bottom (ft)	From (ft)	To (ft)	Start Logging	End Logging	
1	1	7.875	PDC	2.00	Steerable	1931.00	8834.00	1931.00	8881.00	2019-06-11 17:23	2019-06-12 20:50	22.30
2	2	7.875	PDC	3.50	Steerable	8599.00	13674.00	8599.00	13721.00	2019-06-13 12:00	2019-06-15 16:31	50.39

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
John Mason	2019-06-11	2019-06-15	Teni Onafowokan	2019-06-11	2019-06-15			

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+ (%)
2019-06-11 10:56	1	1931.00	Diesel-Oil Based Mud	9.3	14	N/A	9.0	68/22	Active Pit	32000	0.00
2019-06-12 06:00	1	6266.00	Diesel-Oil Based Mud	9.4	18	N/A	9.0	66/24	Active Pit	34000	0.00
2019-06-13 06:00	2	8875.00	Diesel-Oil Based Mud	9.1	13	N/A	8.0	68/22	Active Pit	32000	0.00
2019-06-14 07:00	2	9466.00	Diesel-Oil Based Mud	9.4	14	N/A	8.0	70/20	Active Pit	32000	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	14718055	Gamma (single)	8.14	46.85	6.500	0.000
1	EvoOne	14718055	Directional (mag)	9.33	48.04	6.500	0.000
2	EvoOne	14718055	Gamma (single)	8.14	47.06	6.500	0.000
2	EvoOne	14718055	Directional (mag)	9.33	48.25	6.500	0.000

Service and Tool Mnemonics

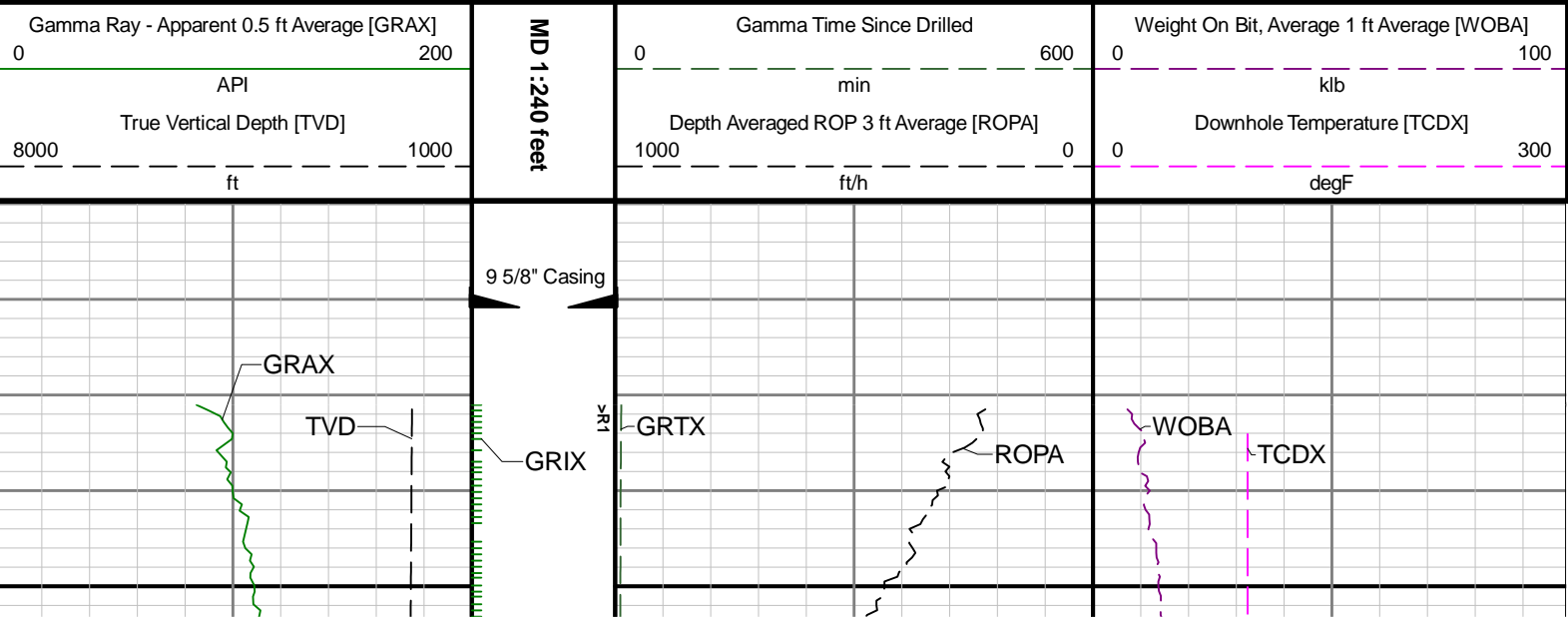
Mnemonic	Name	Description
MWD	EvoOne - Dir Gamma	EvoOne

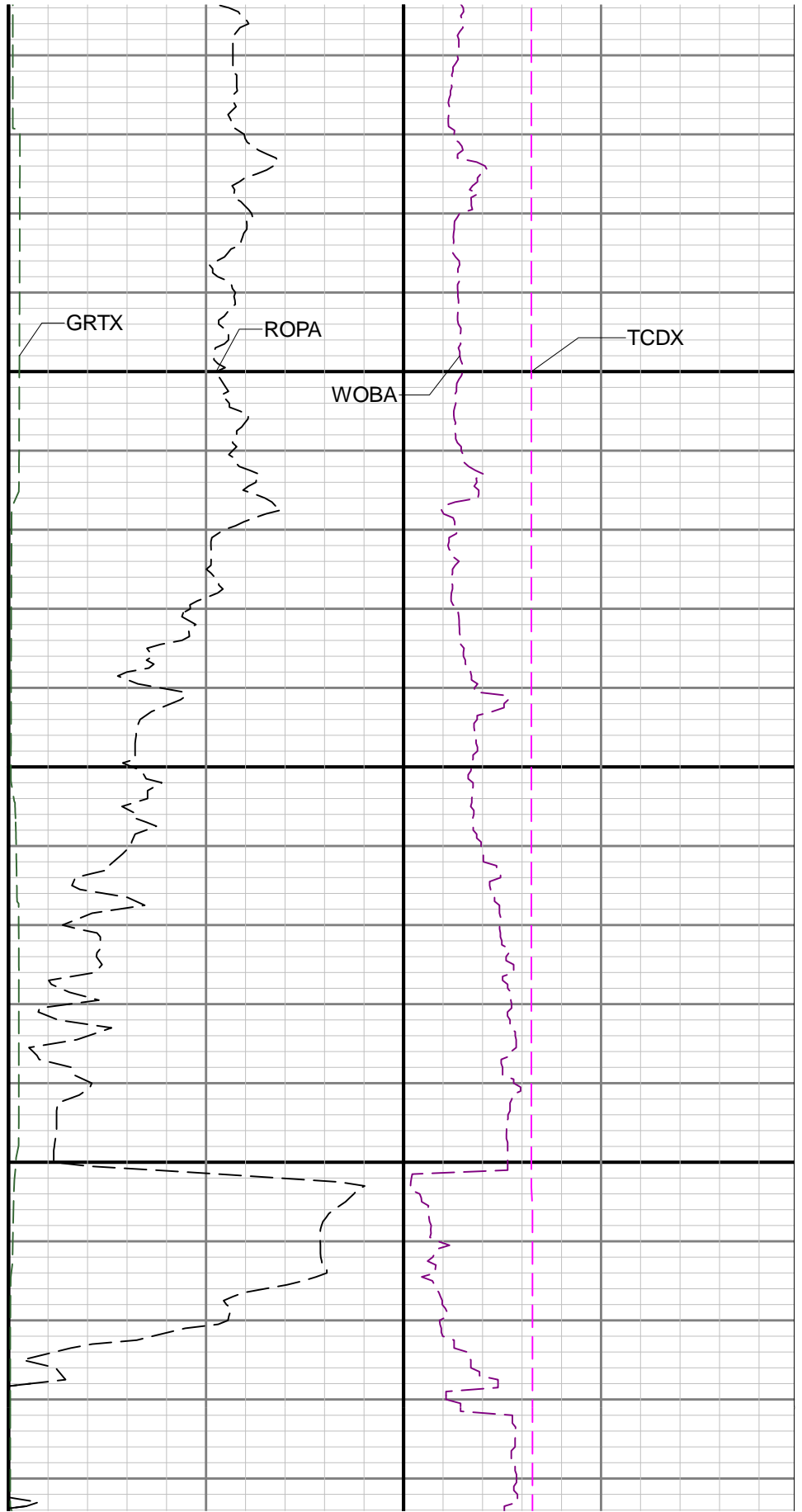
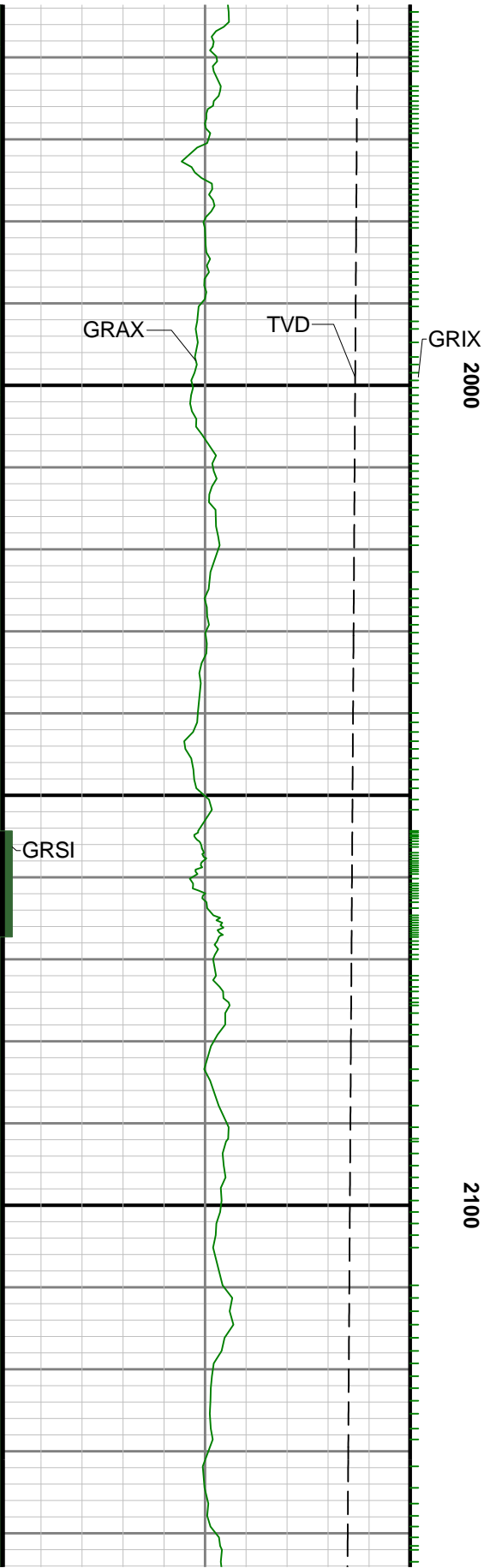
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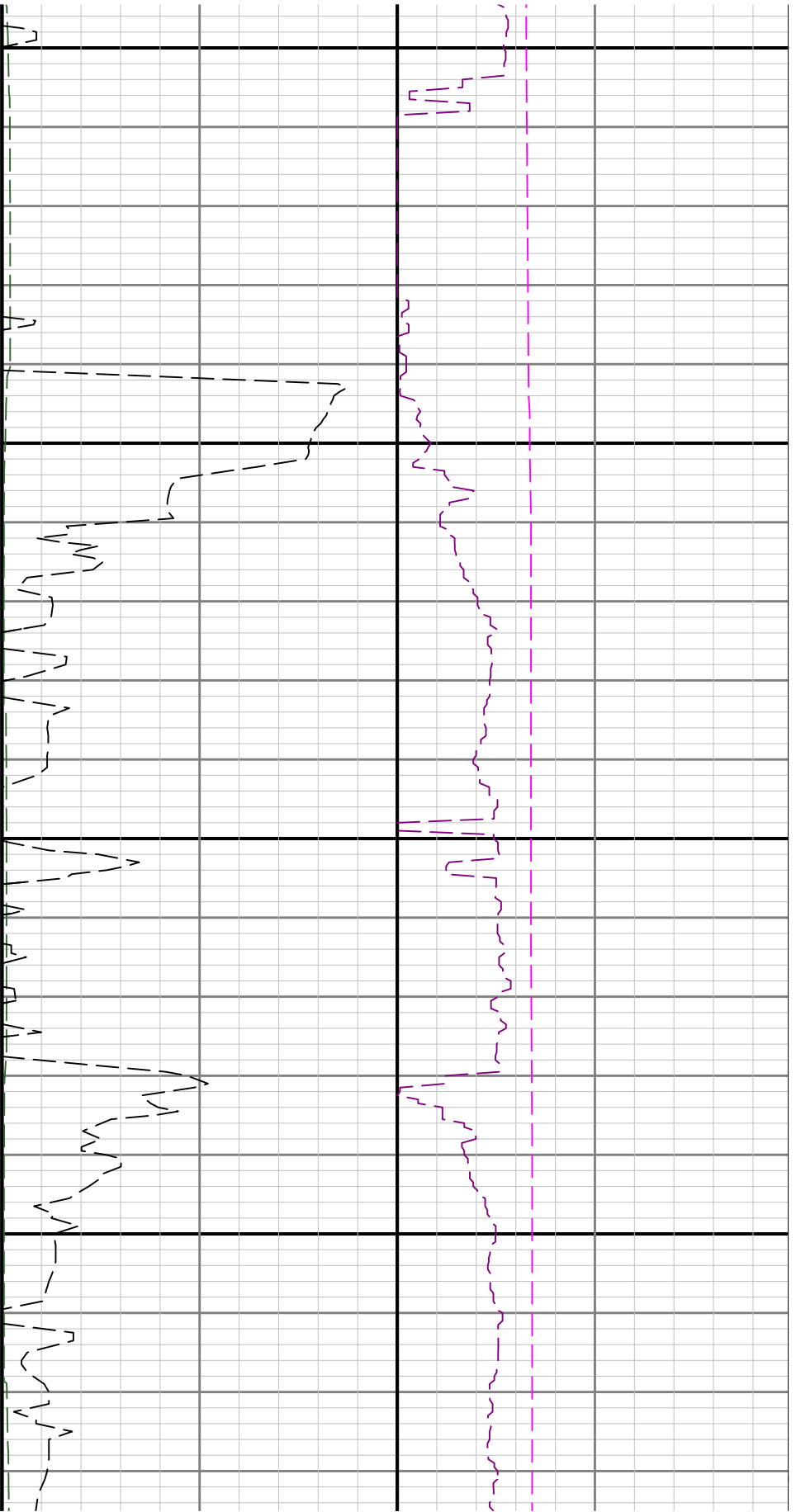
- 1
- Depth measurements were obtained from a depth control system not supplied by Baker Hughes. Due to lack of control by Baker Hughes logging engineers depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to represent 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 run 1 utilized 6 1/2 inch Evo One services (Directional and Gamma Ray) behind a 7 7/8 inch bit and steerable assembly from 1931 to 8881 feet MD (1875 to 7503 feet TVD).
- 5
- Baker Hughes run 2 utilized 6 1/2 inch Evo One services (Directional and Gamma Ray) behind a 7 7/8 inch bit and steerable assembly from 8599 to 13721 feet MD (7493 to 7529 feet TVD).

Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	8599.00	7.875	2	The sidetrack for Run 2 begins at 8599 feet MD (7493 feet TVD).
2	13680.00	7.875	2	The interval from 13653 to 13721 feet MD (7529 feet TVD) was not logged due to sensor to bit offset at well TD.

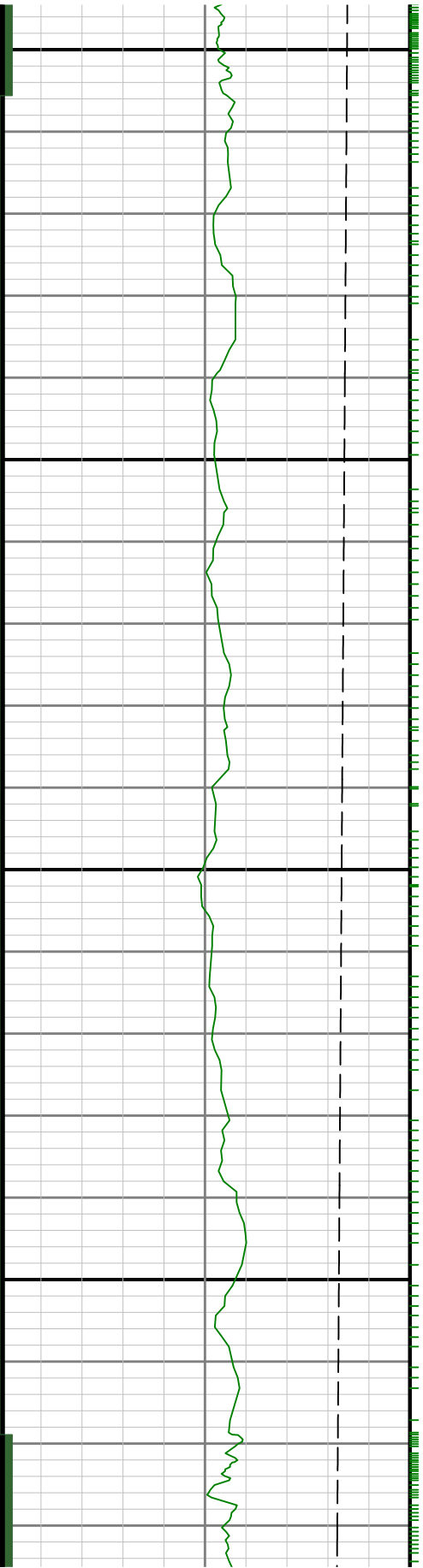


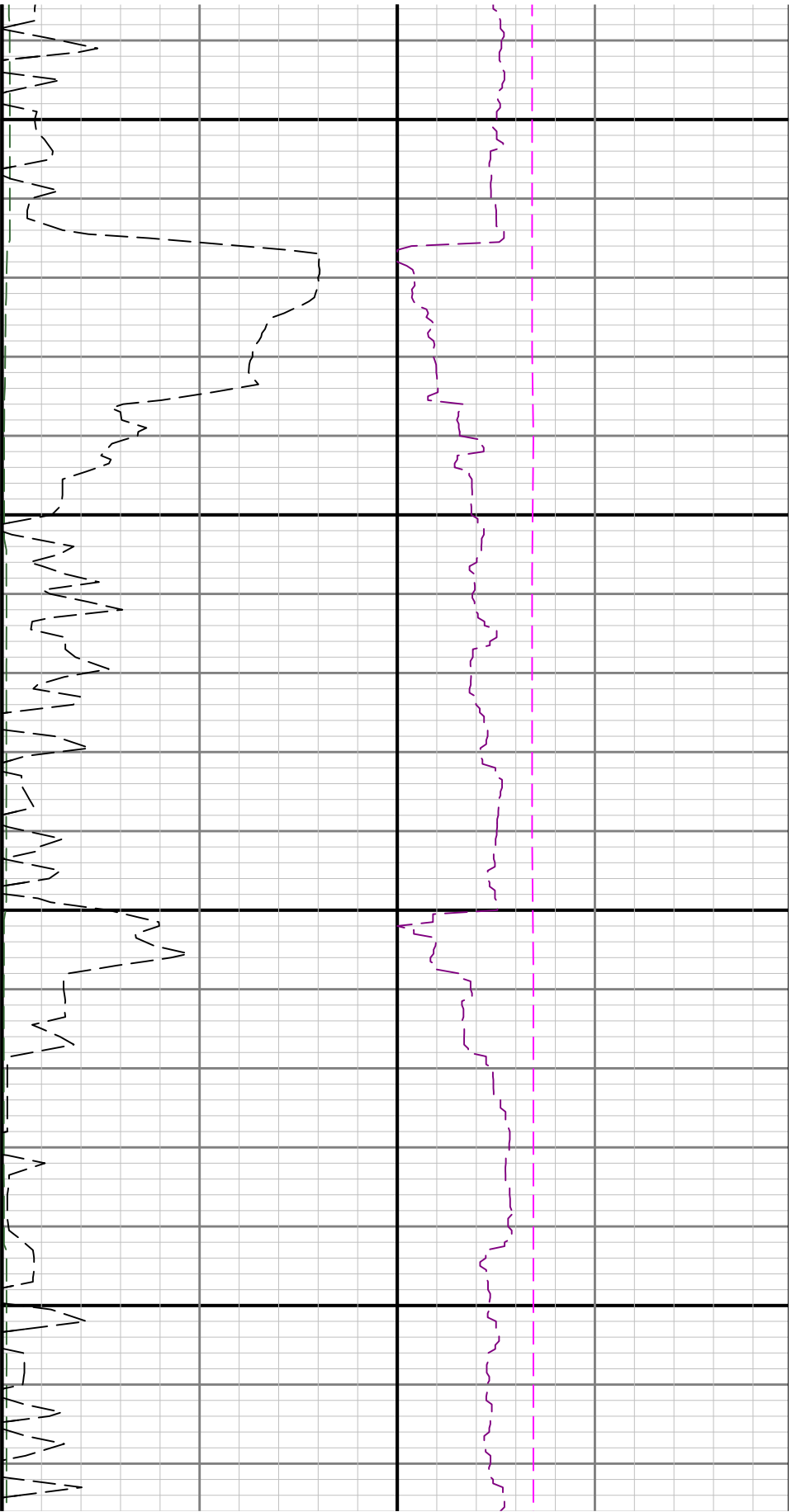




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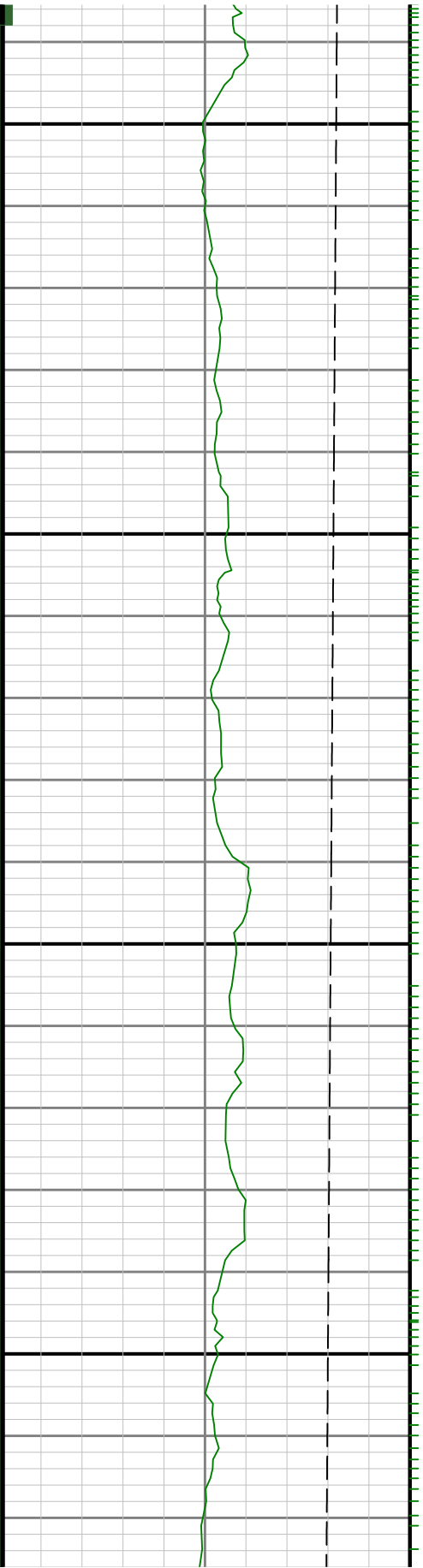
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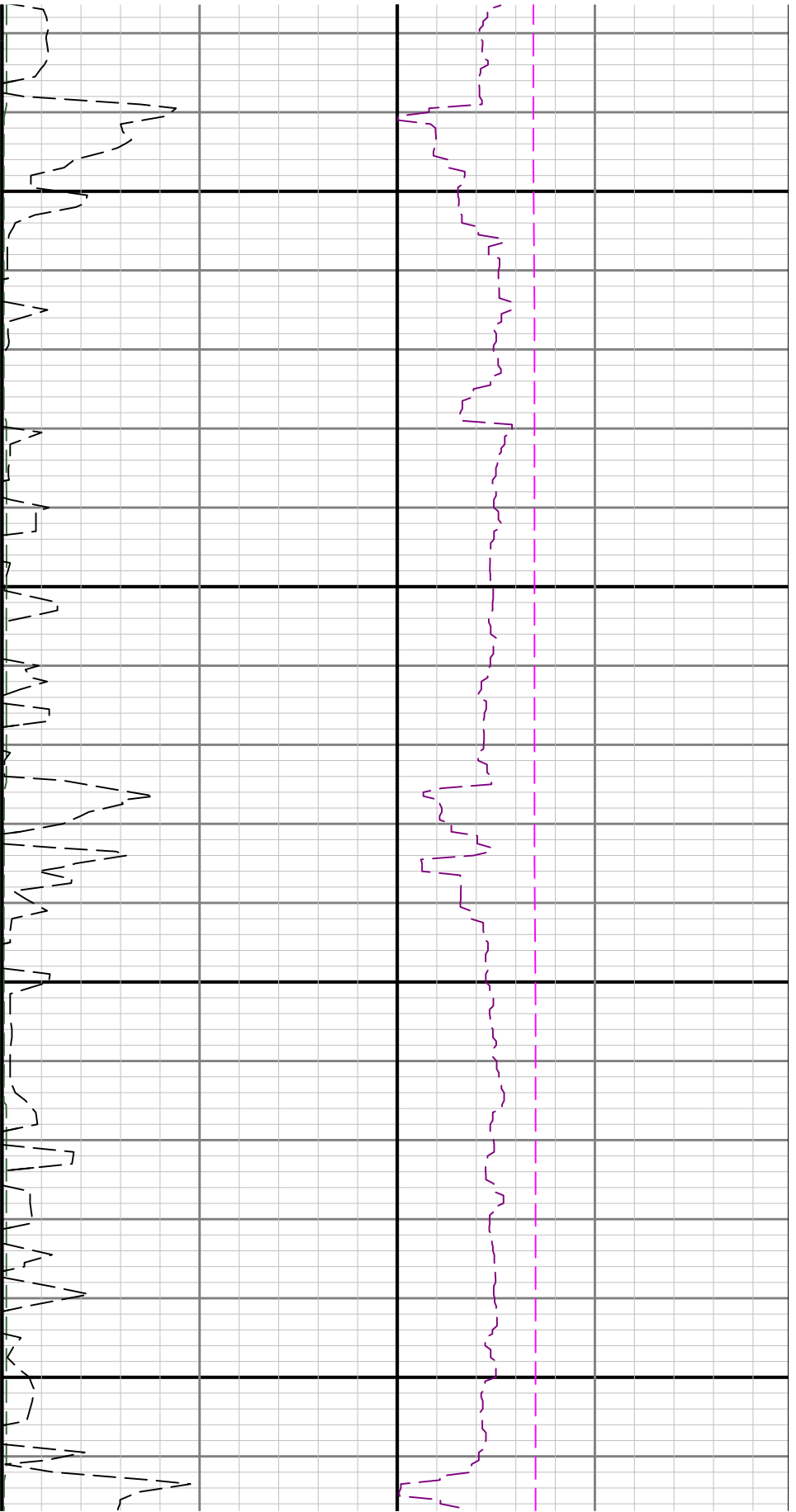




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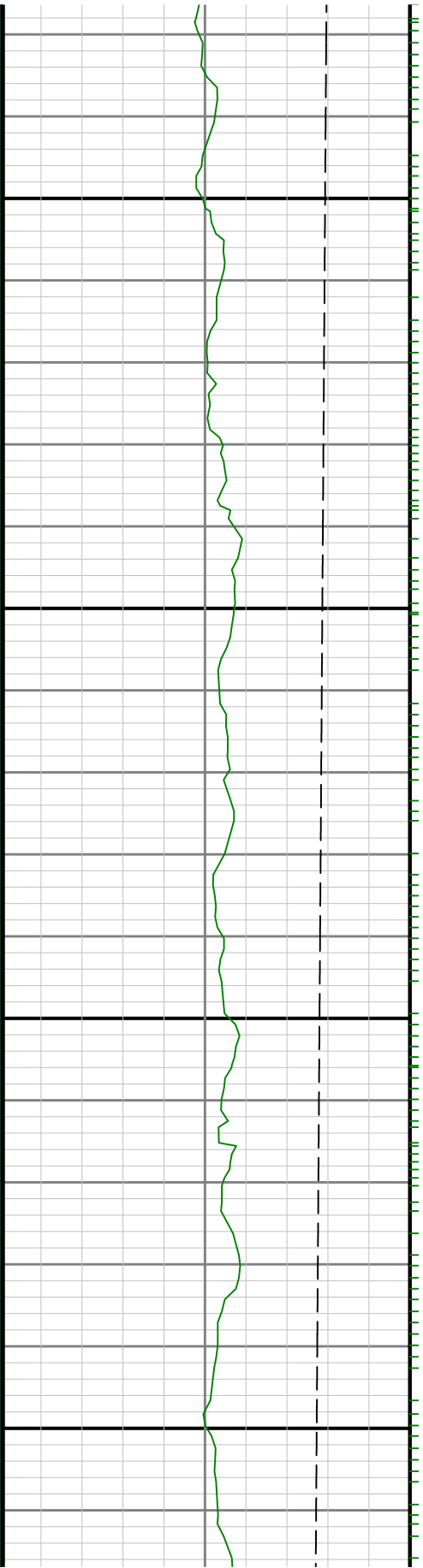
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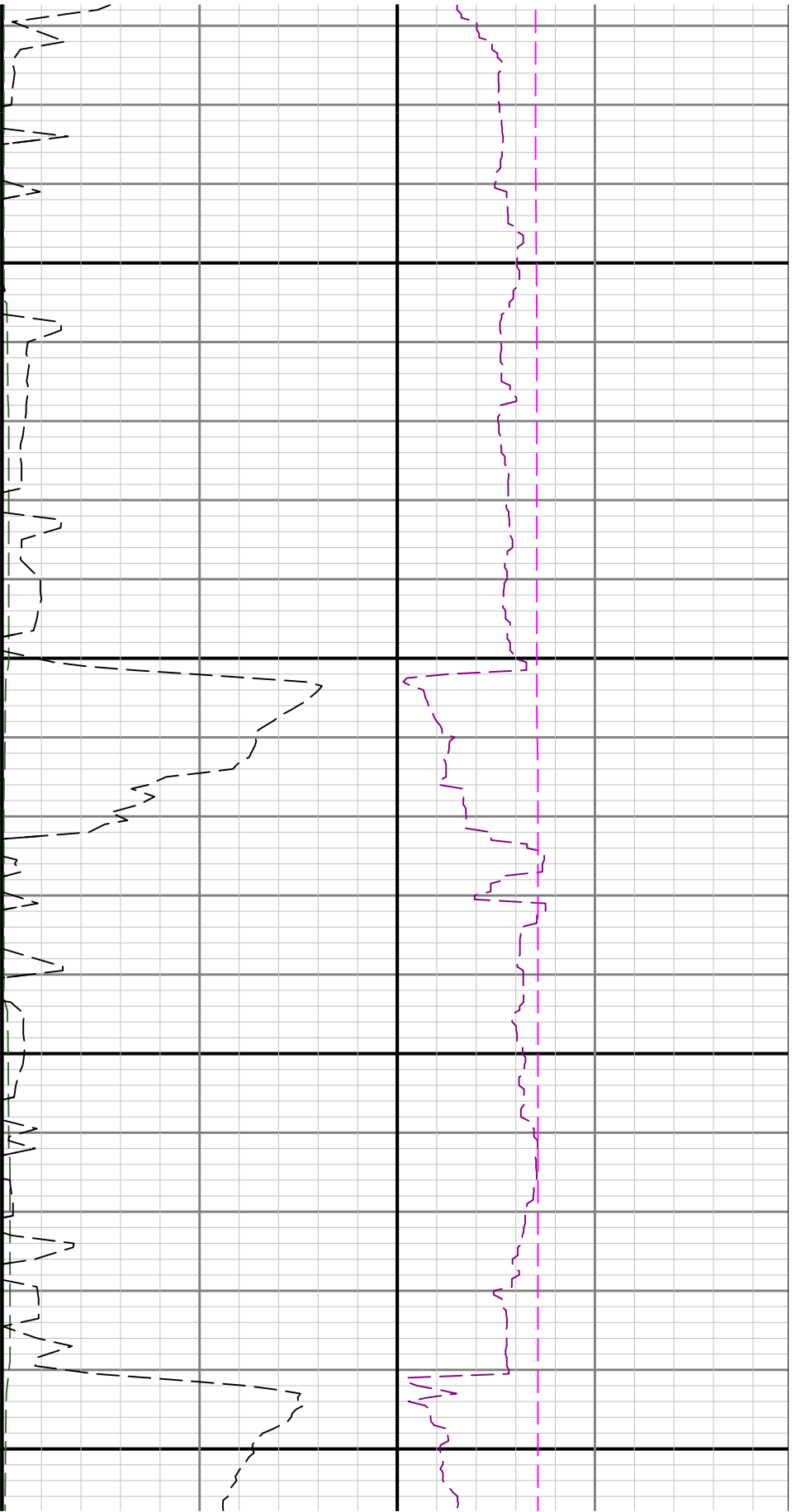




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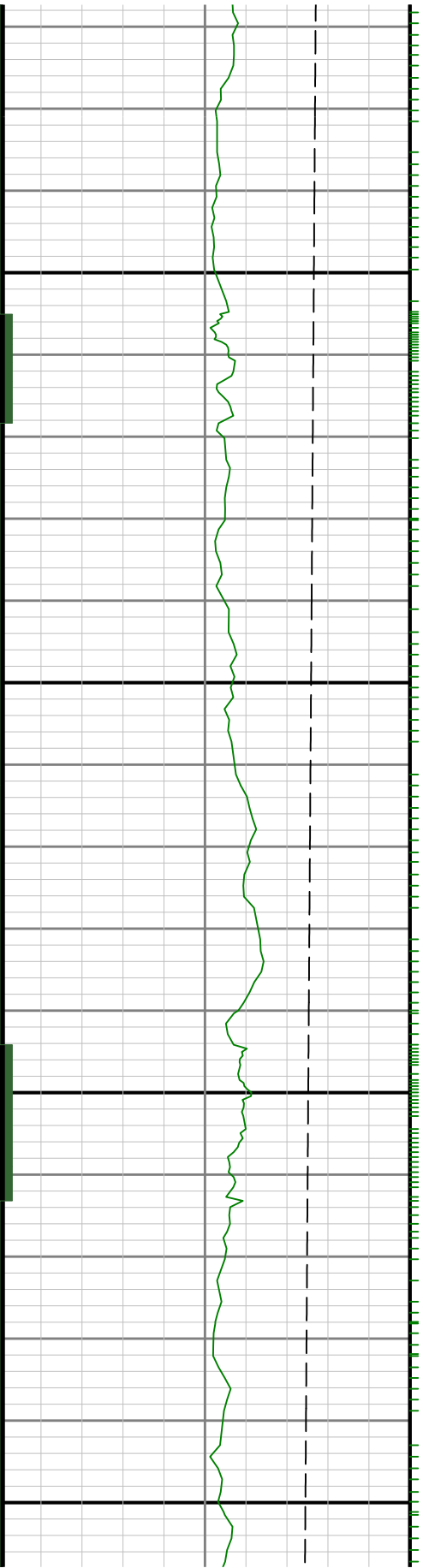
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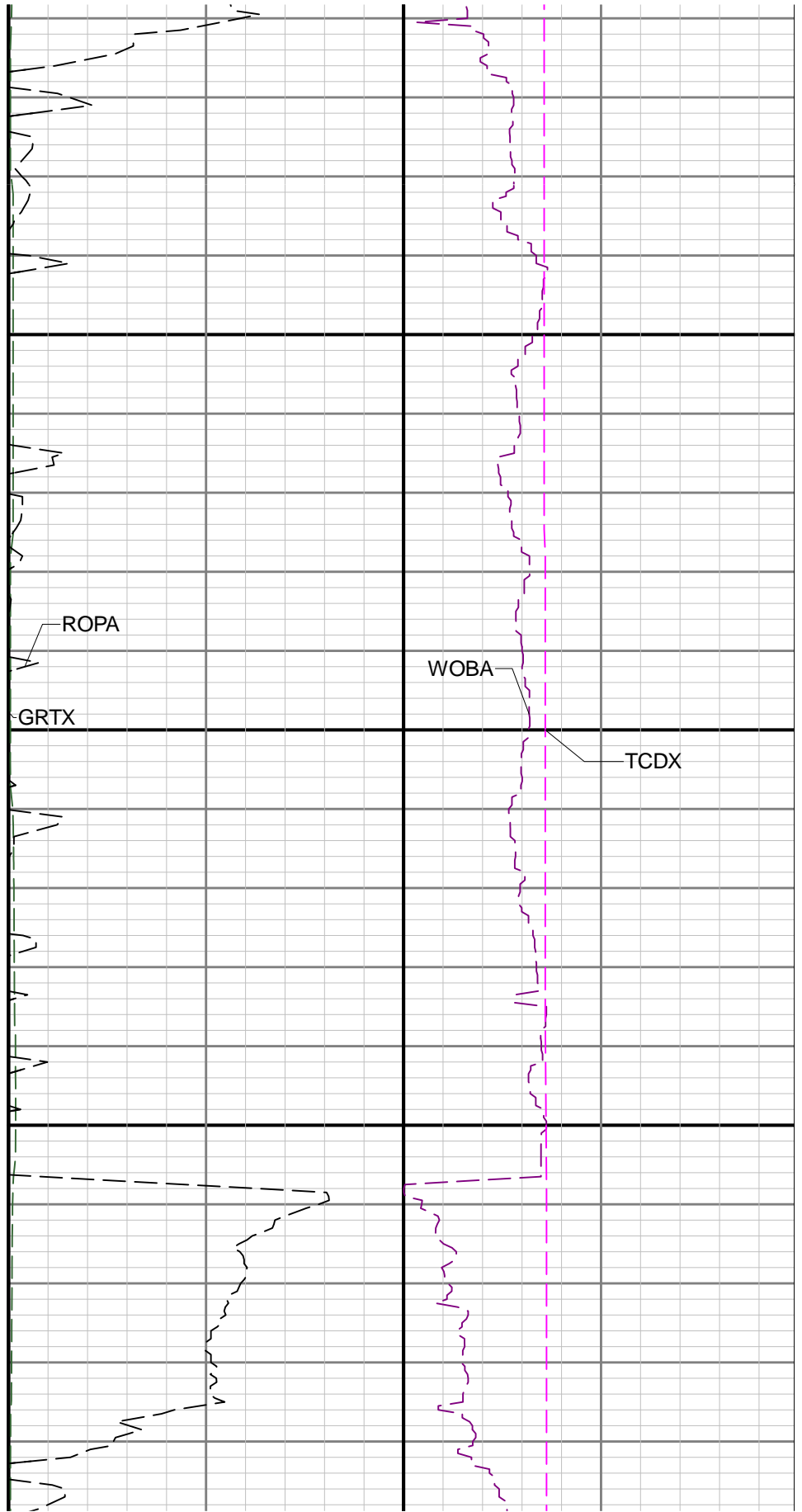
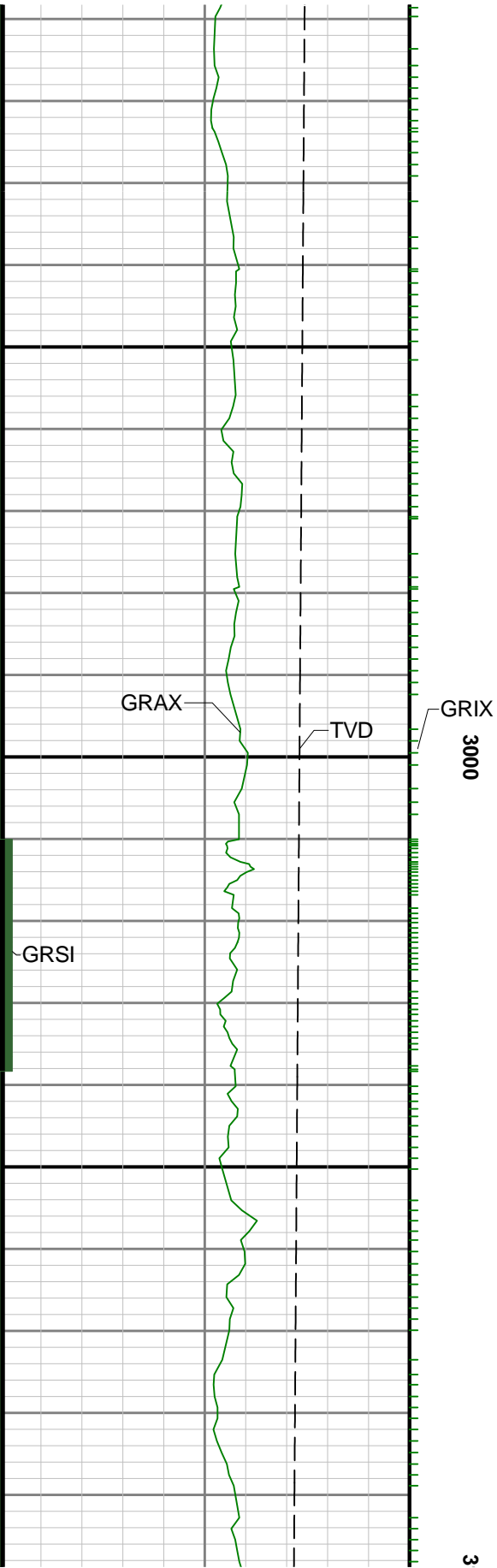


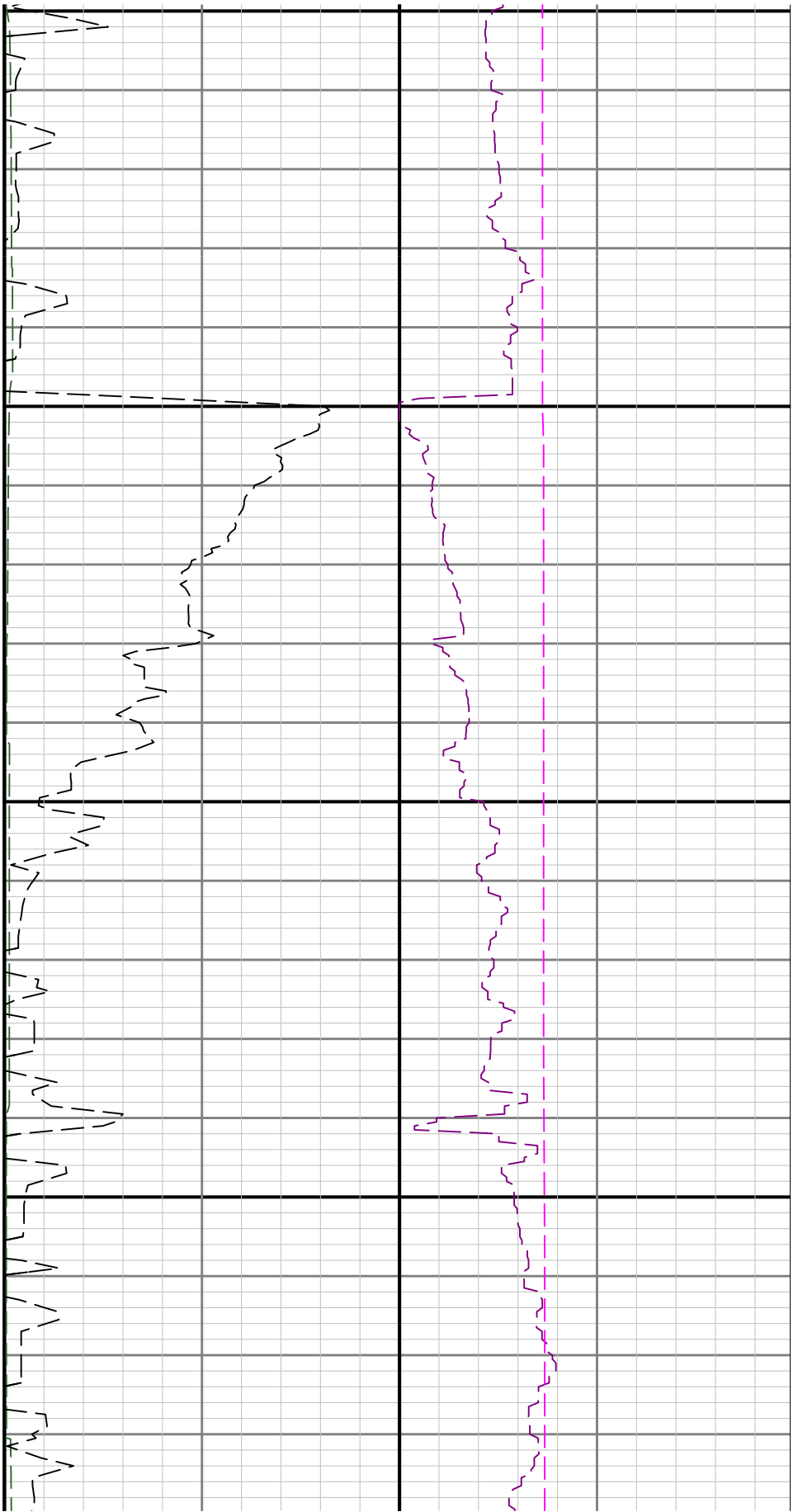


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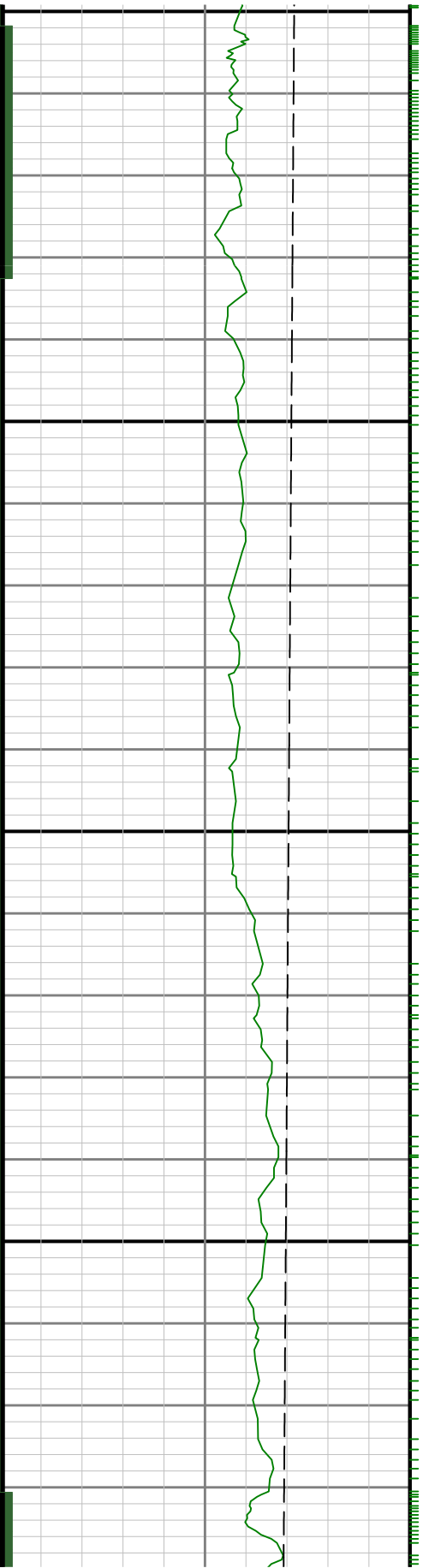


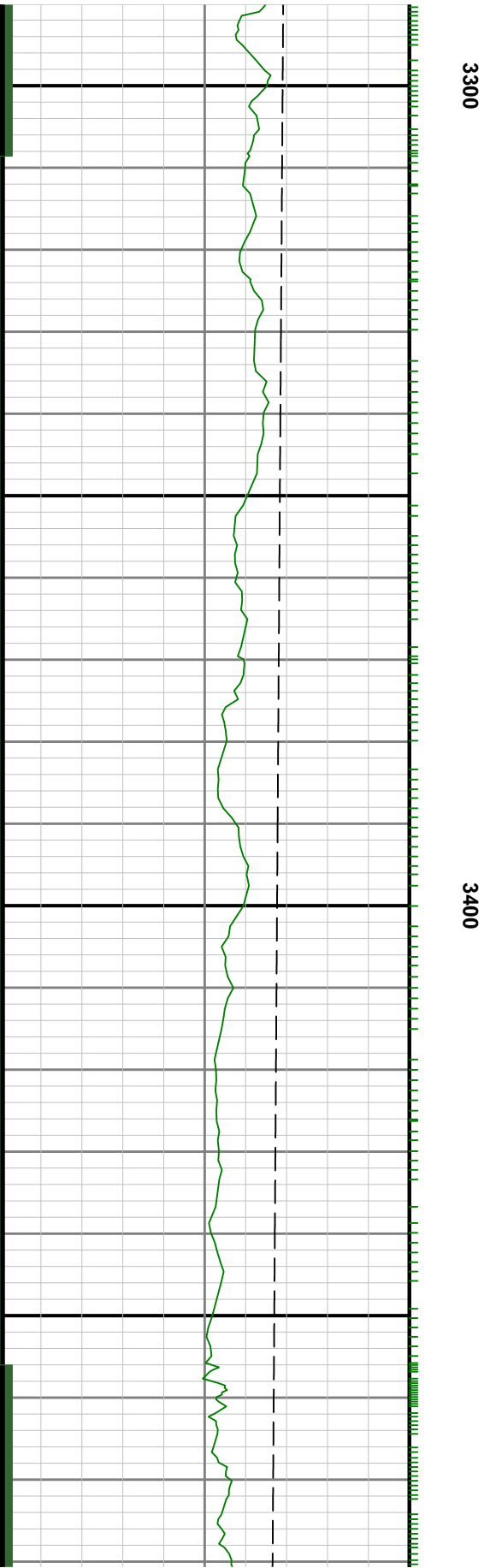
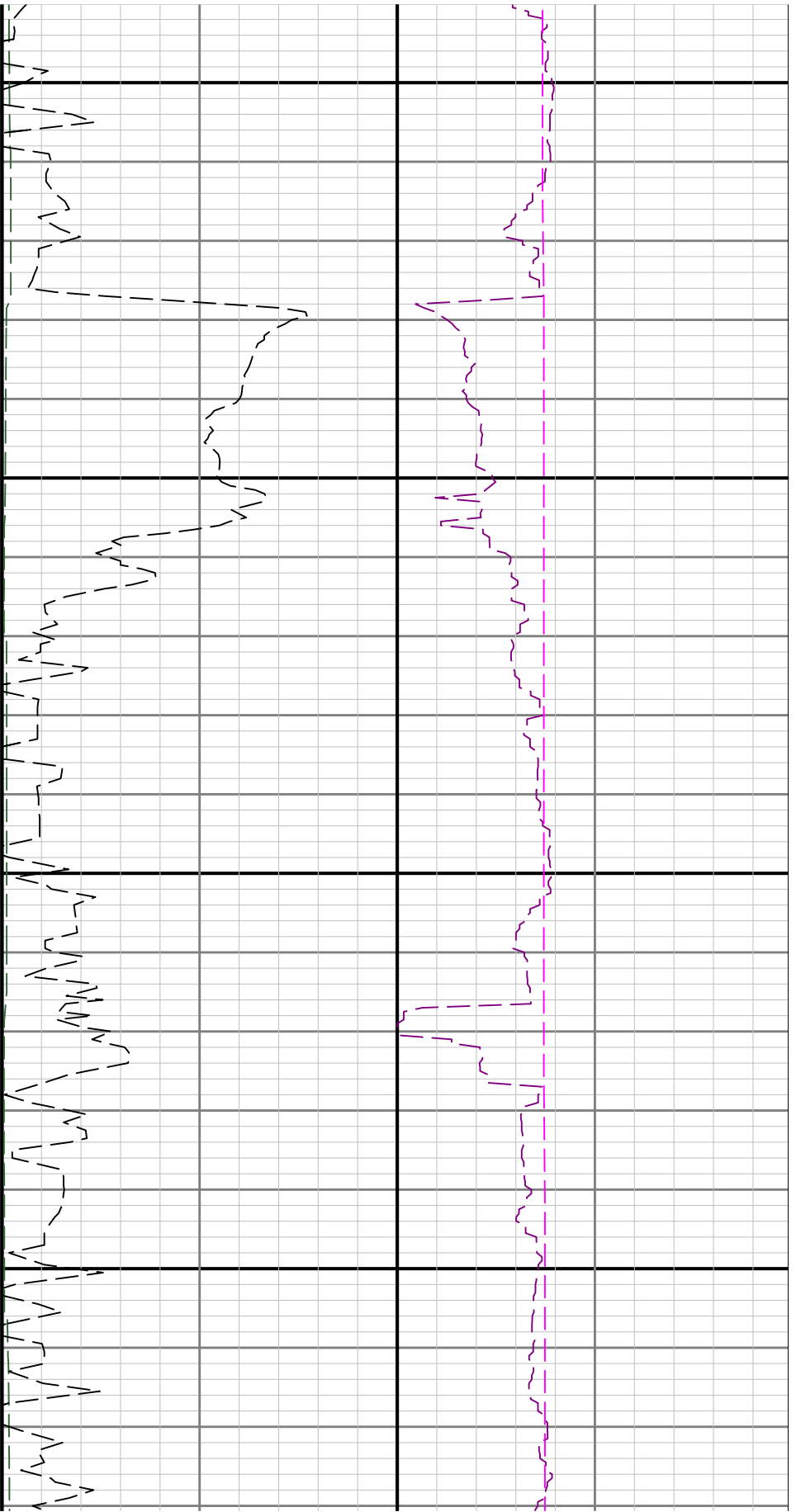


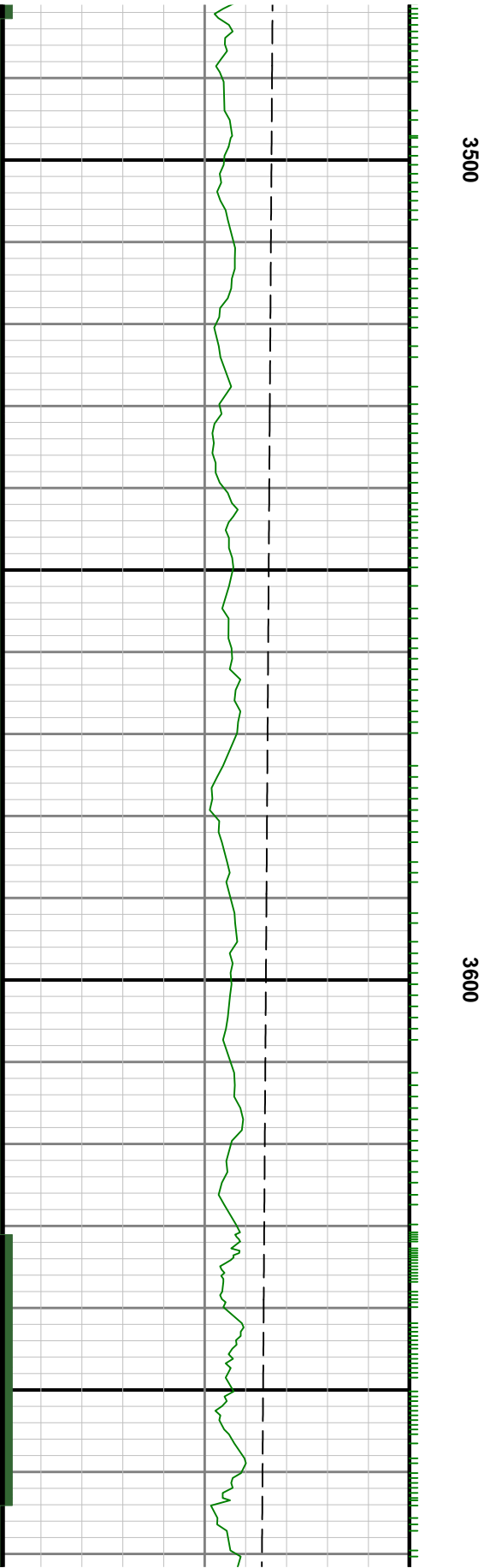
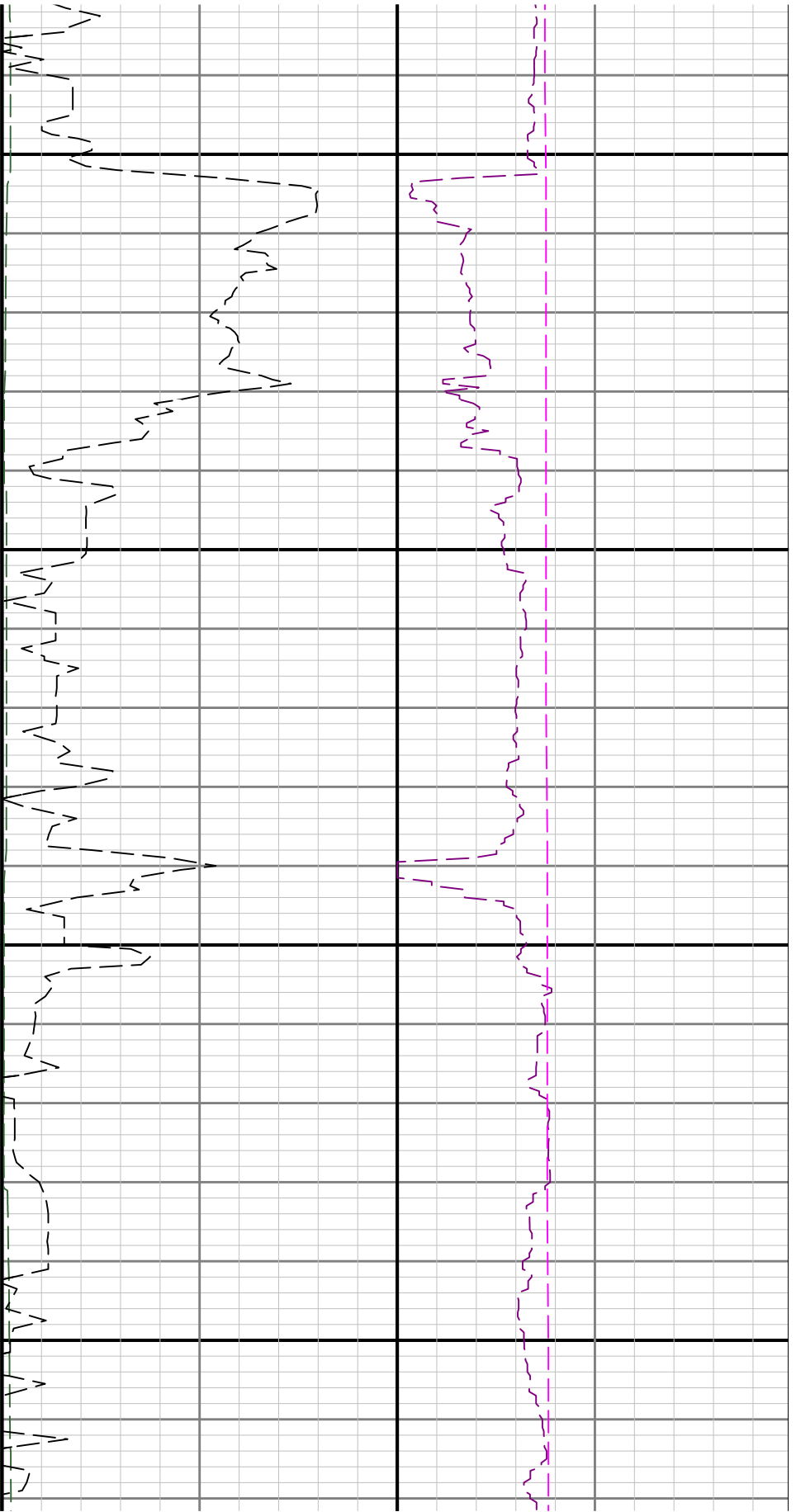


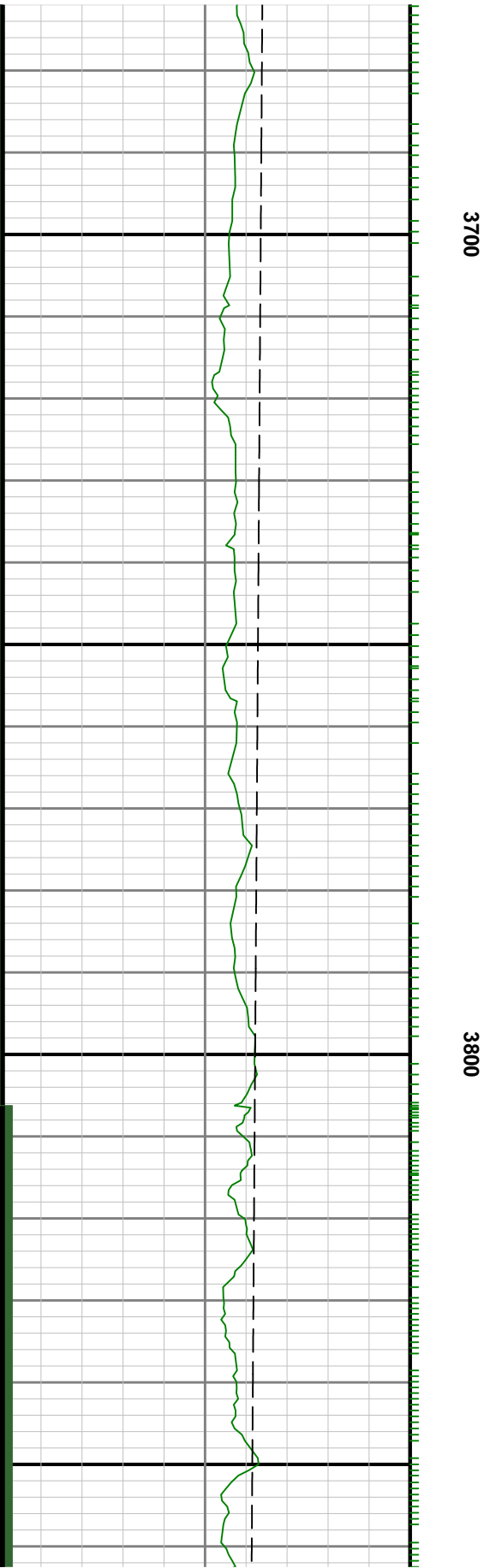
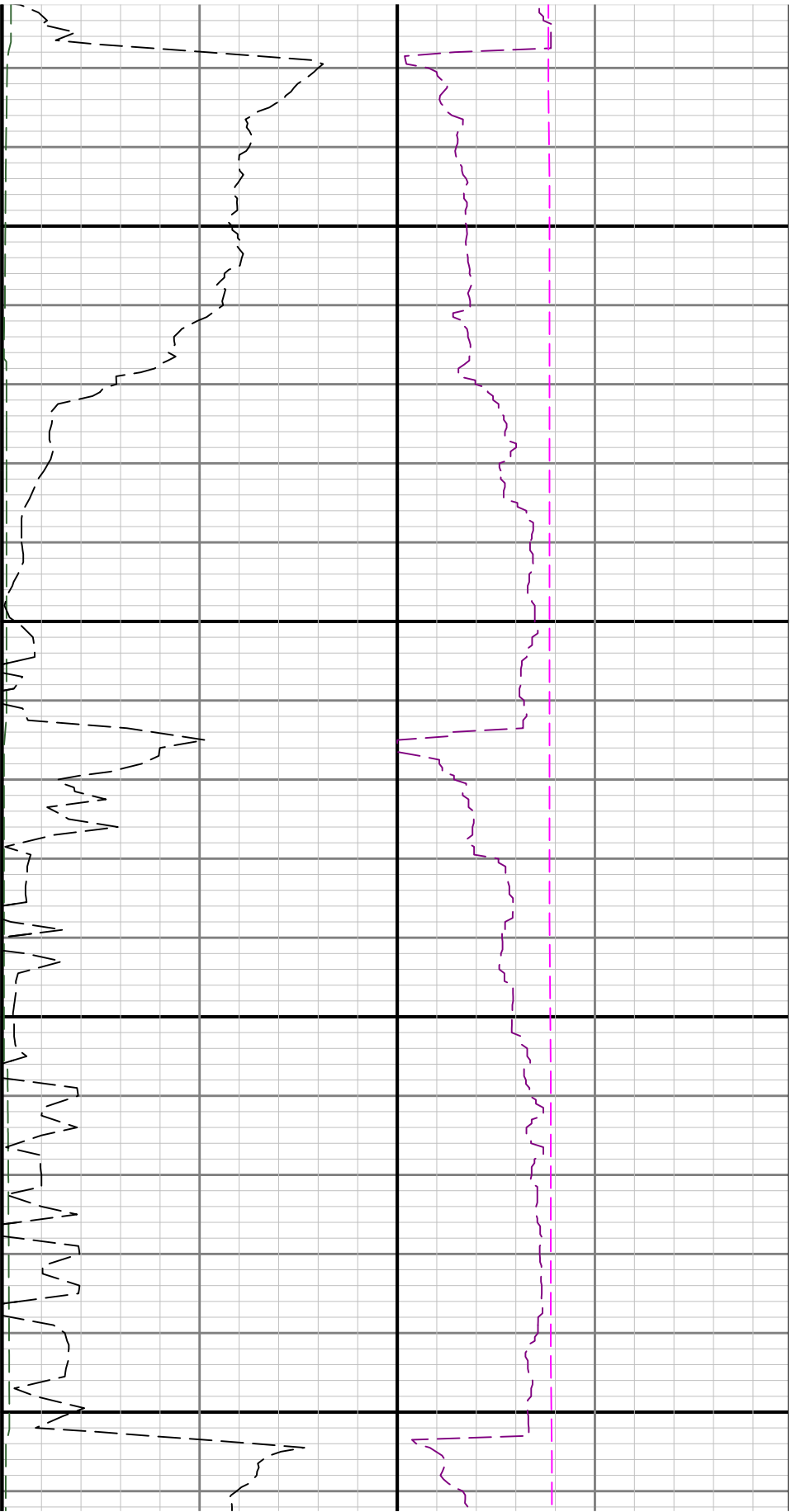
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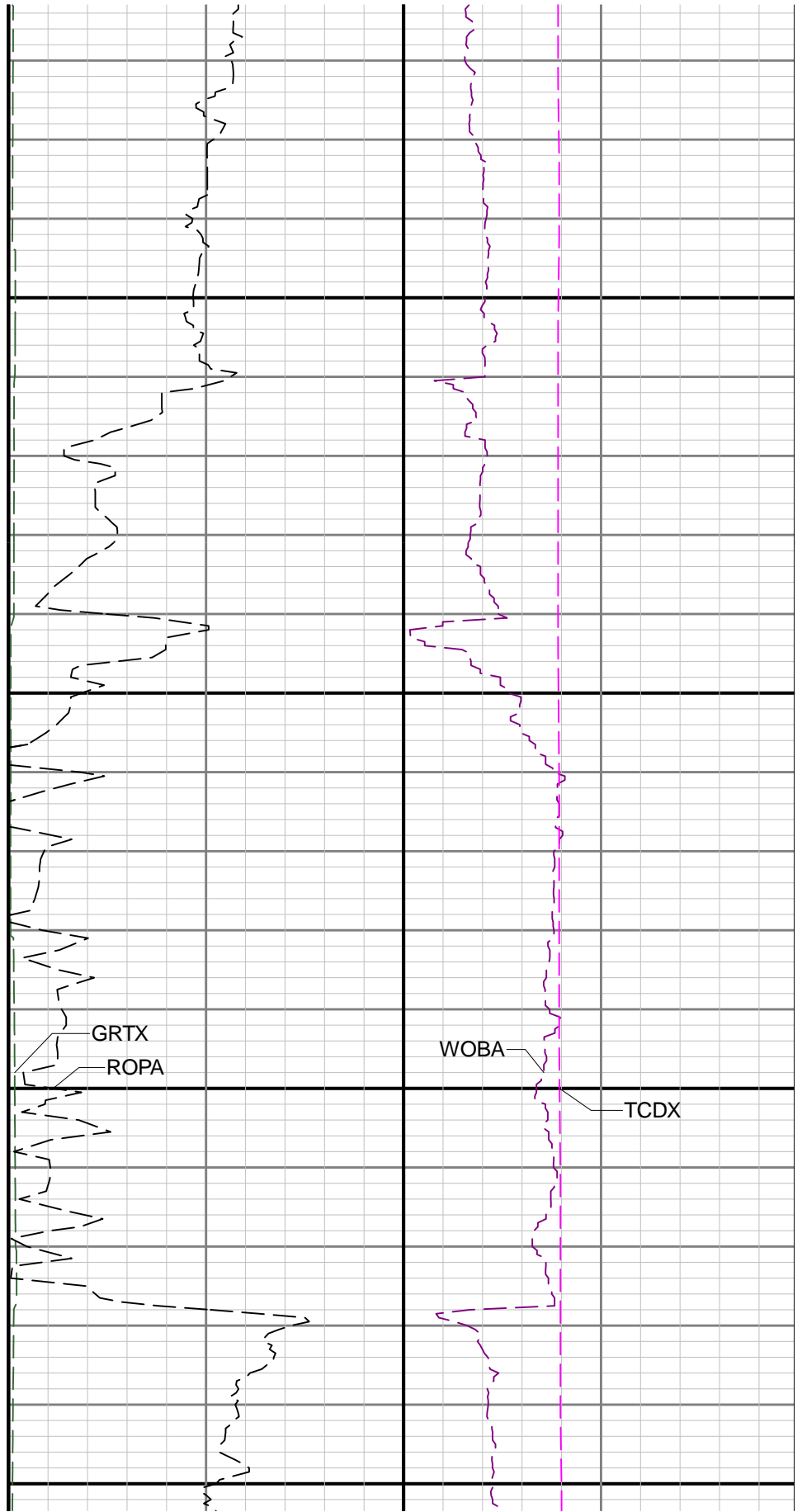
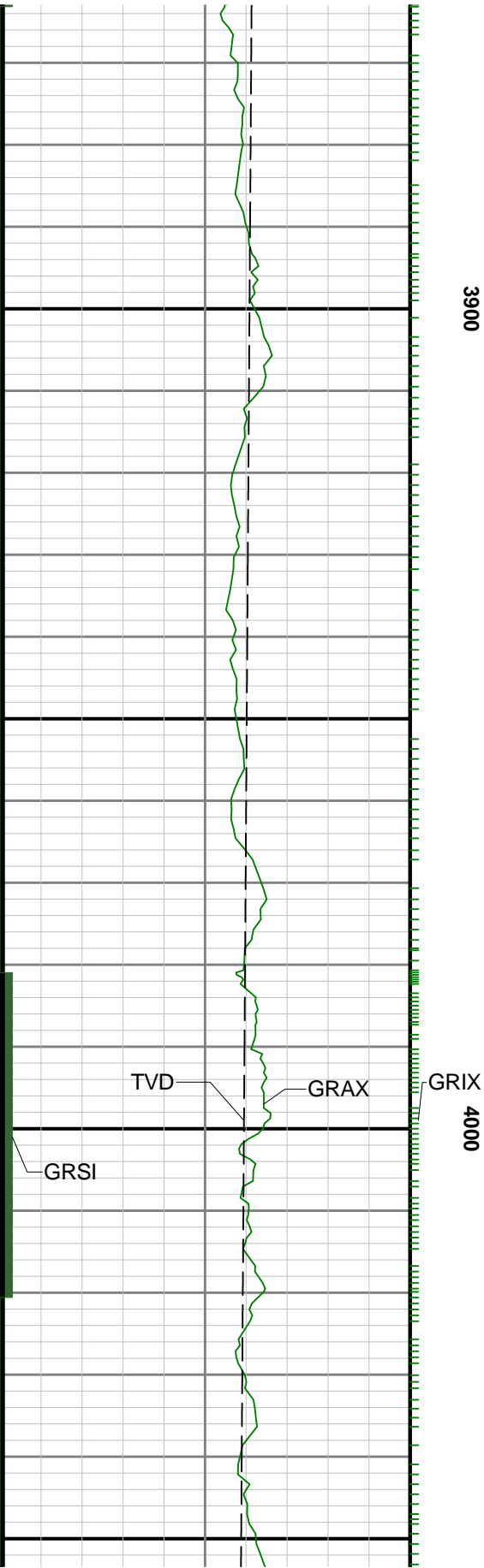
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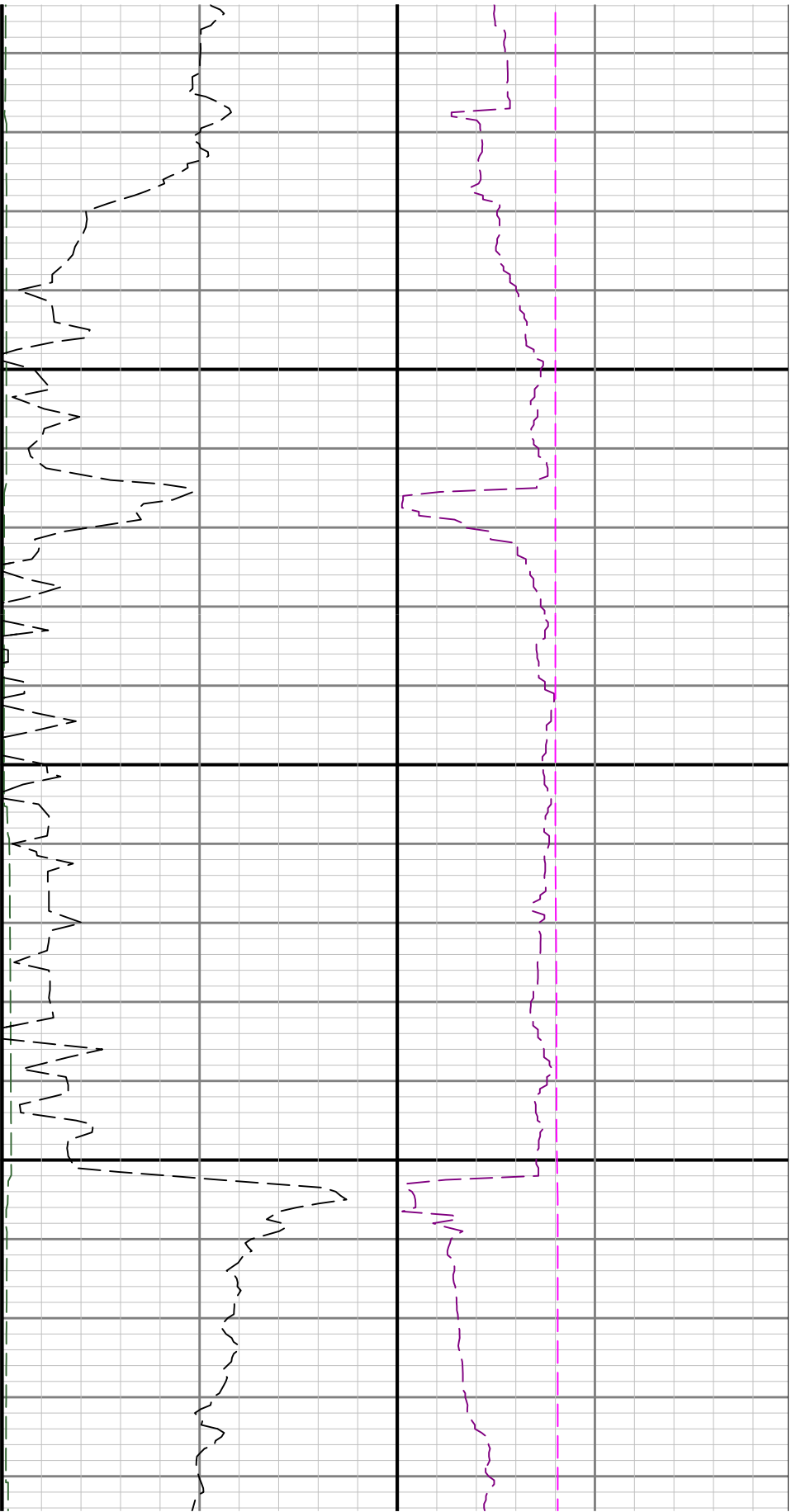






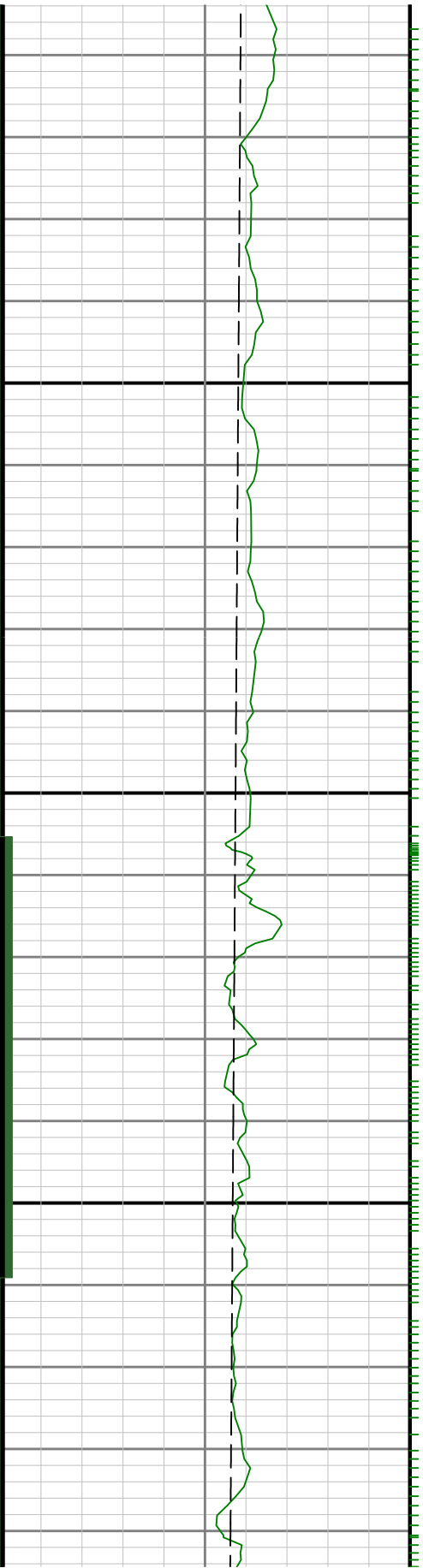


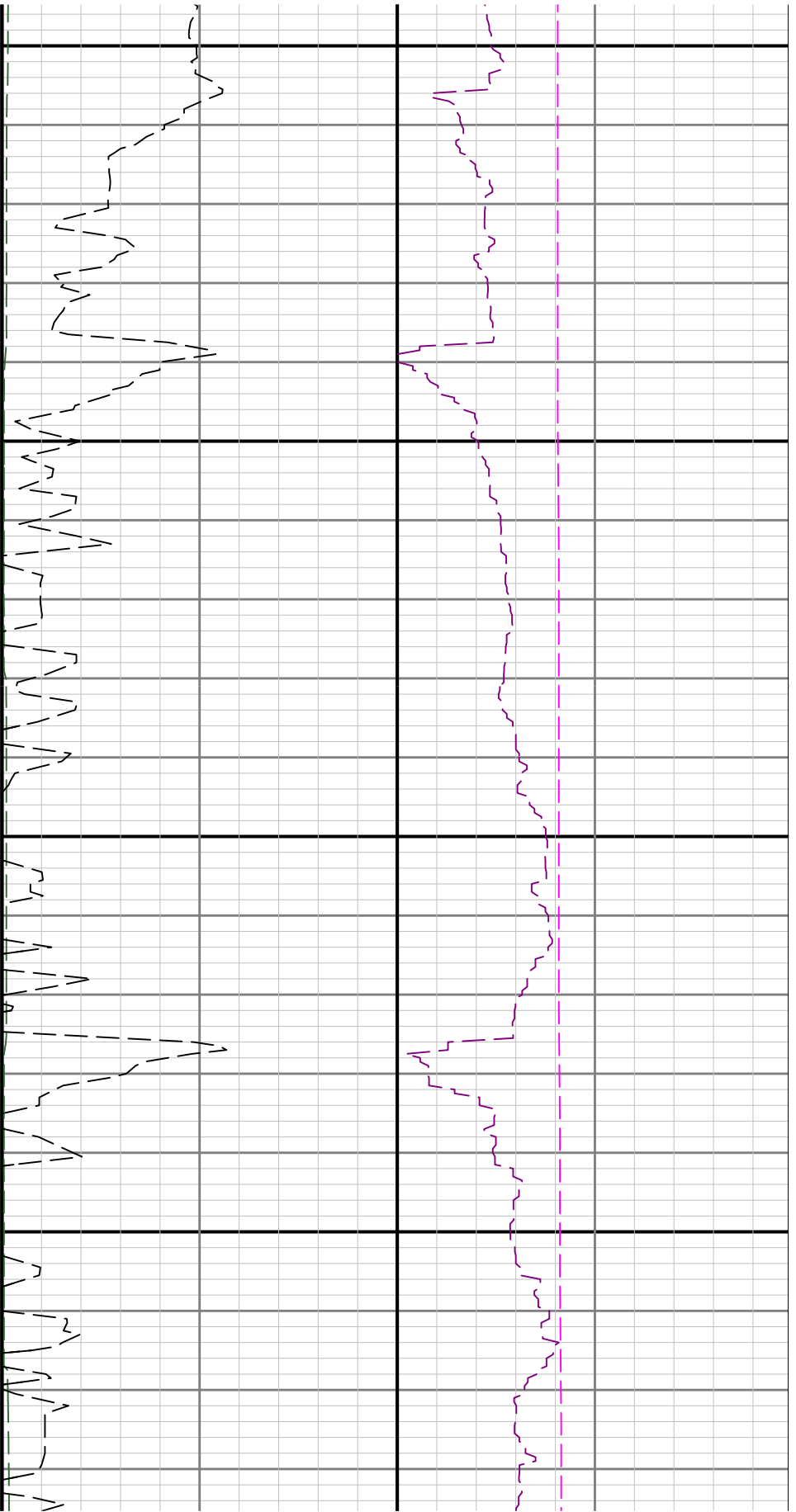




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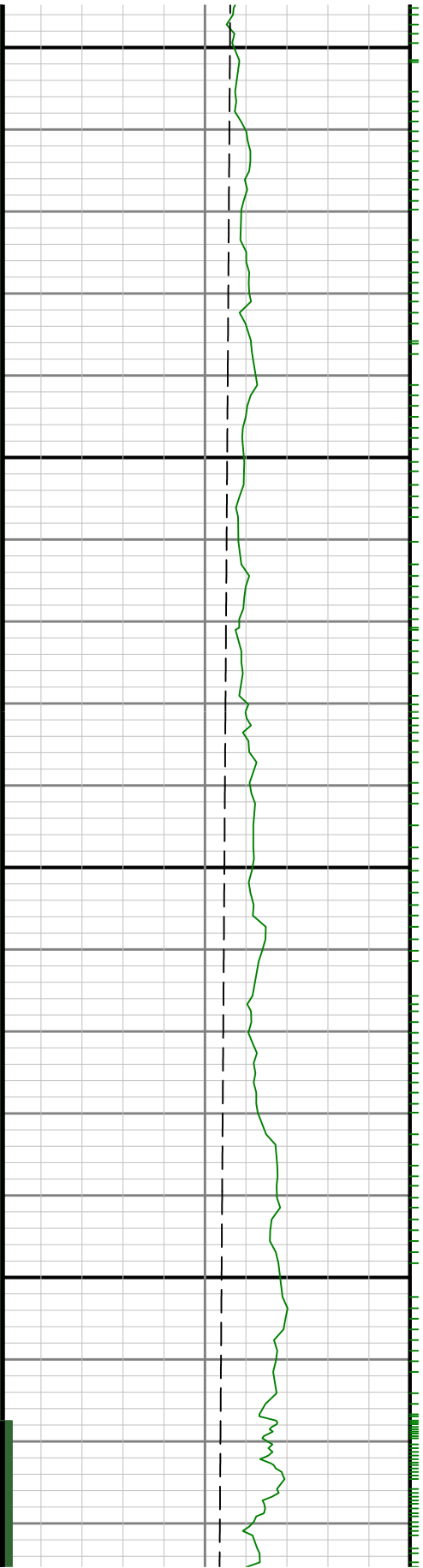
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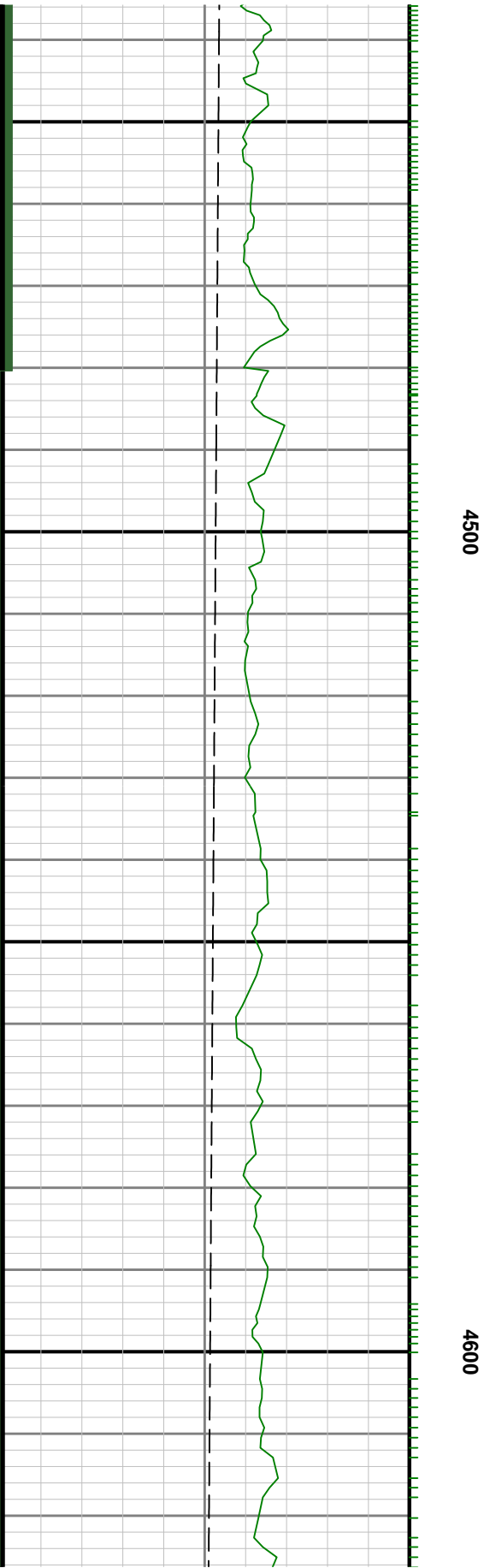
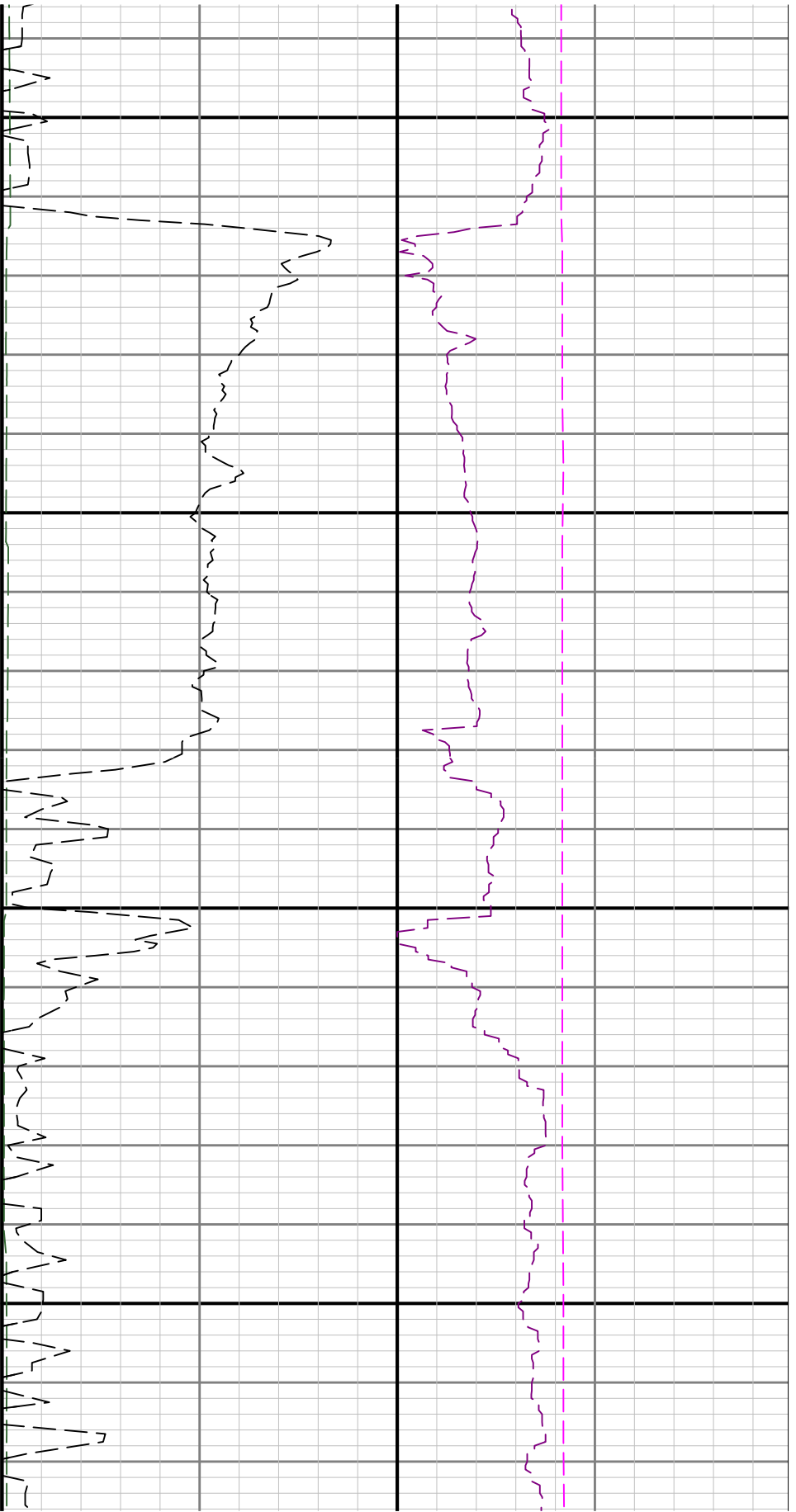


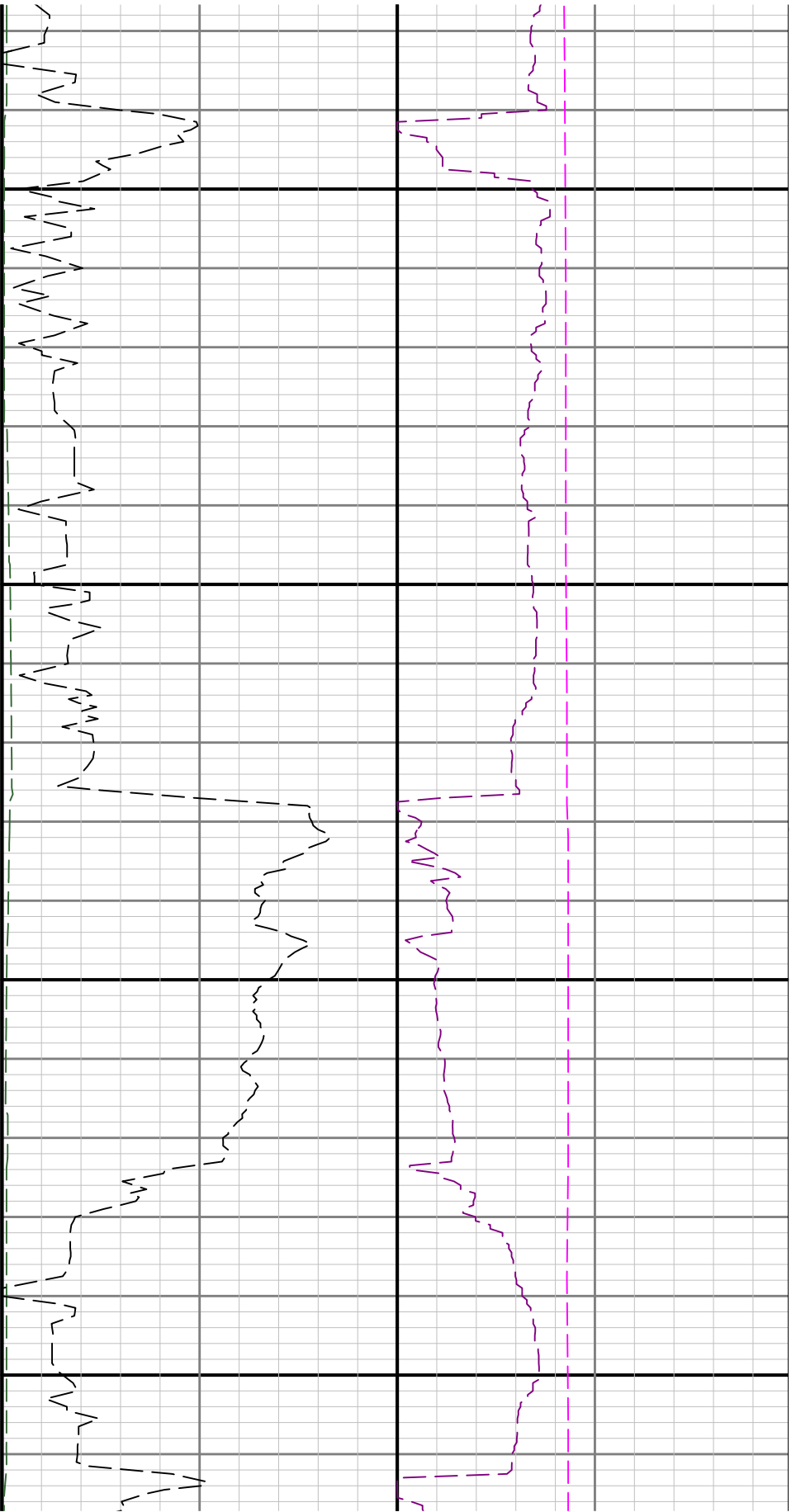


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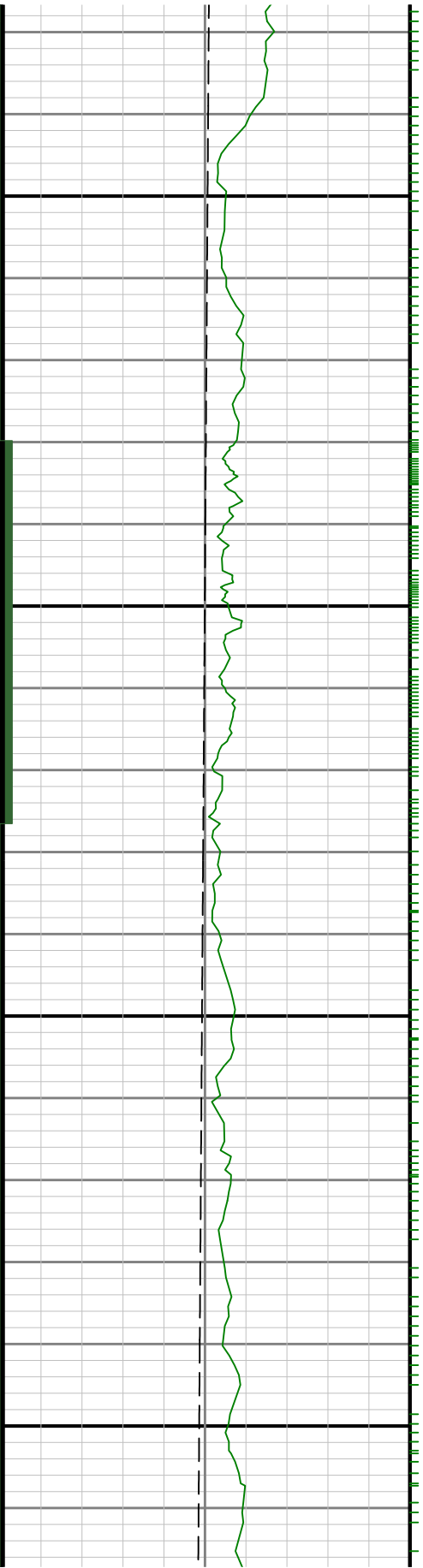


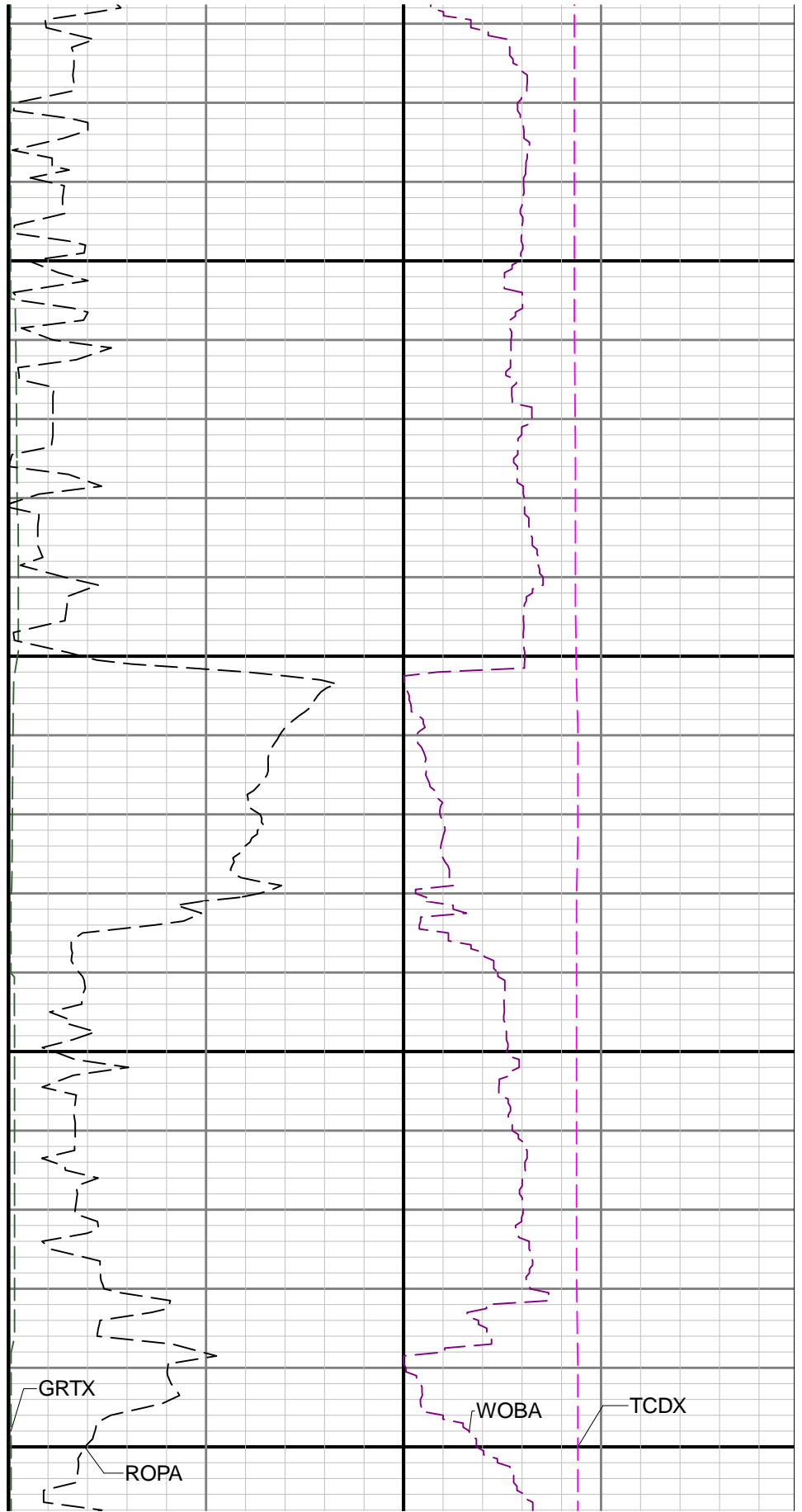
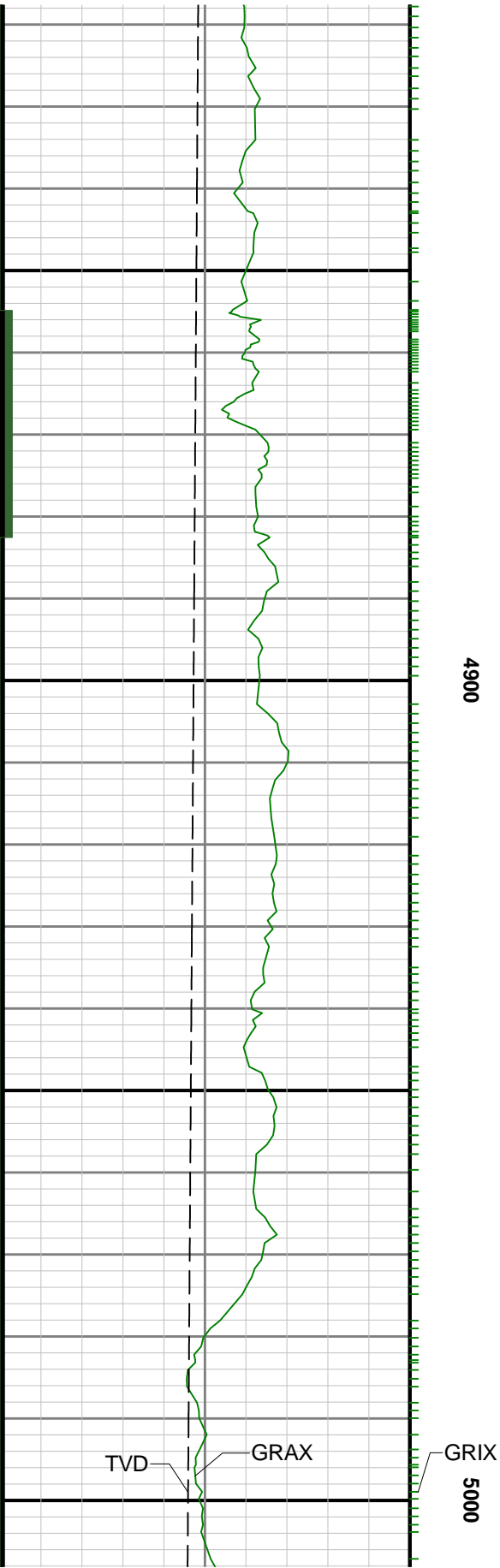


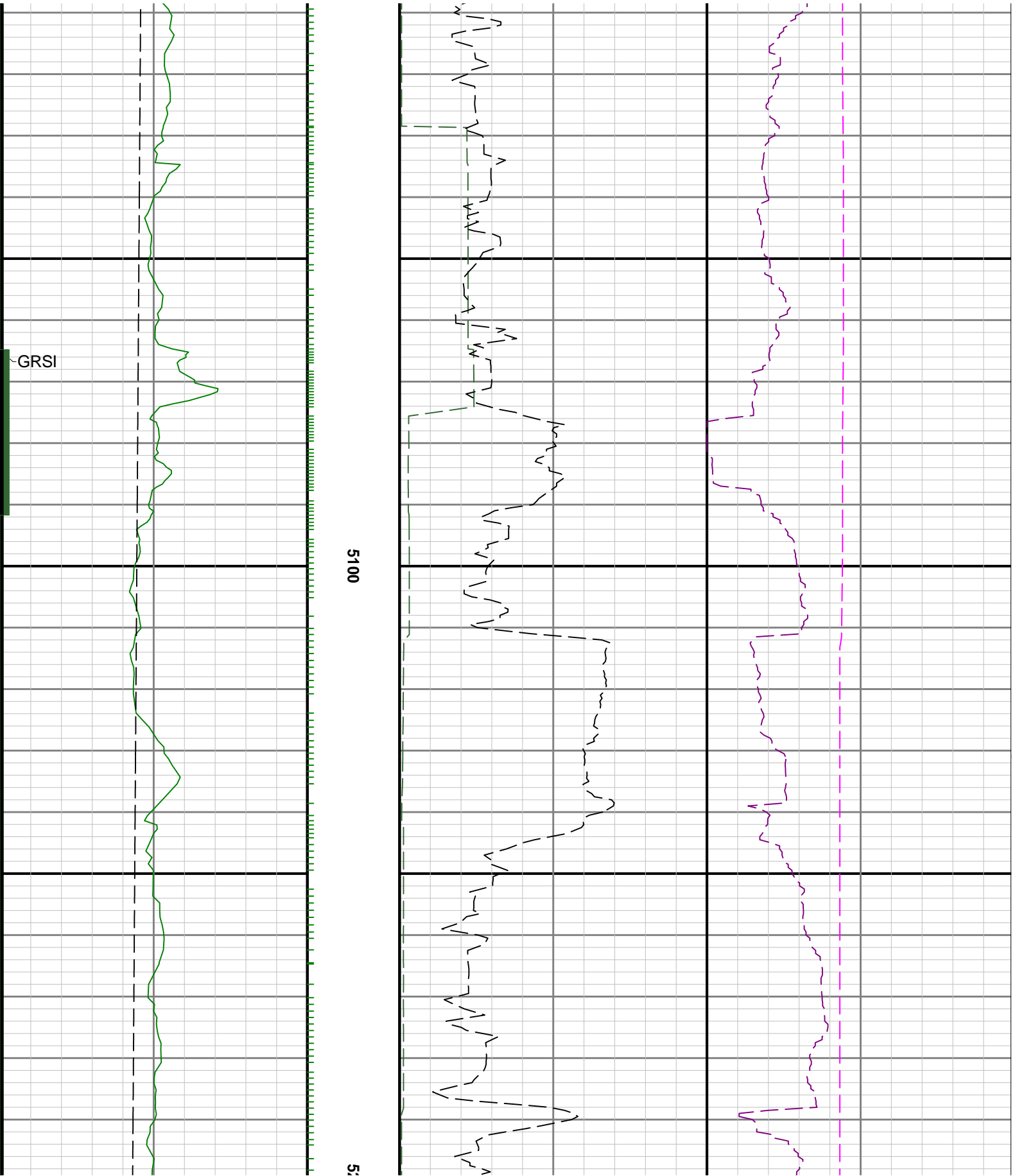


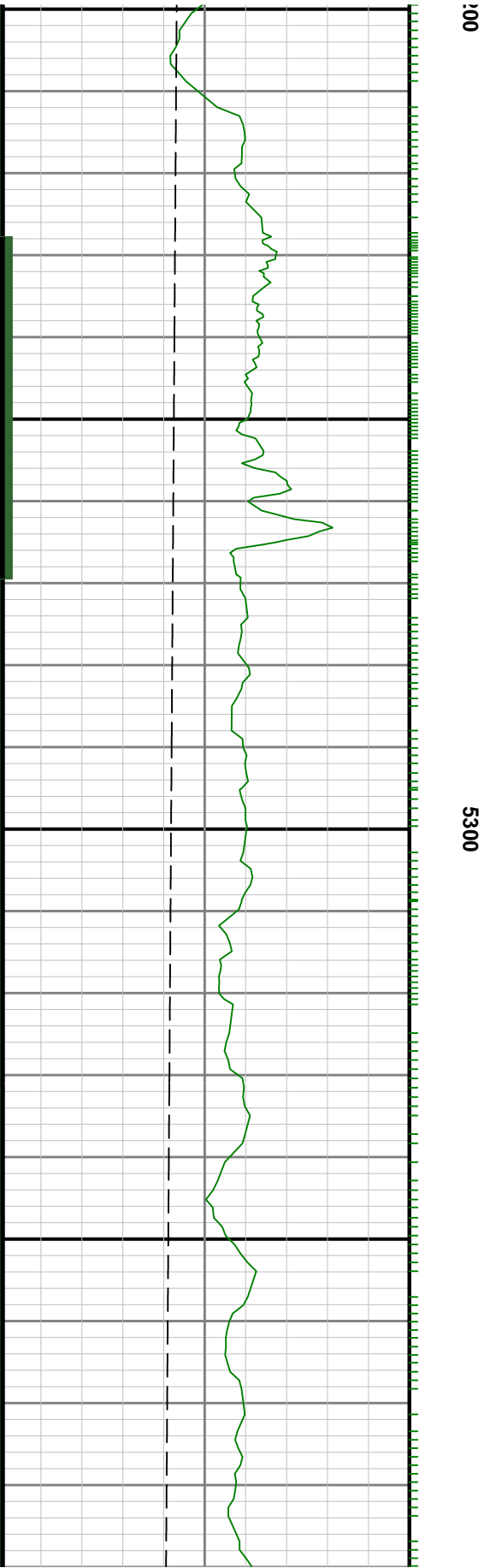
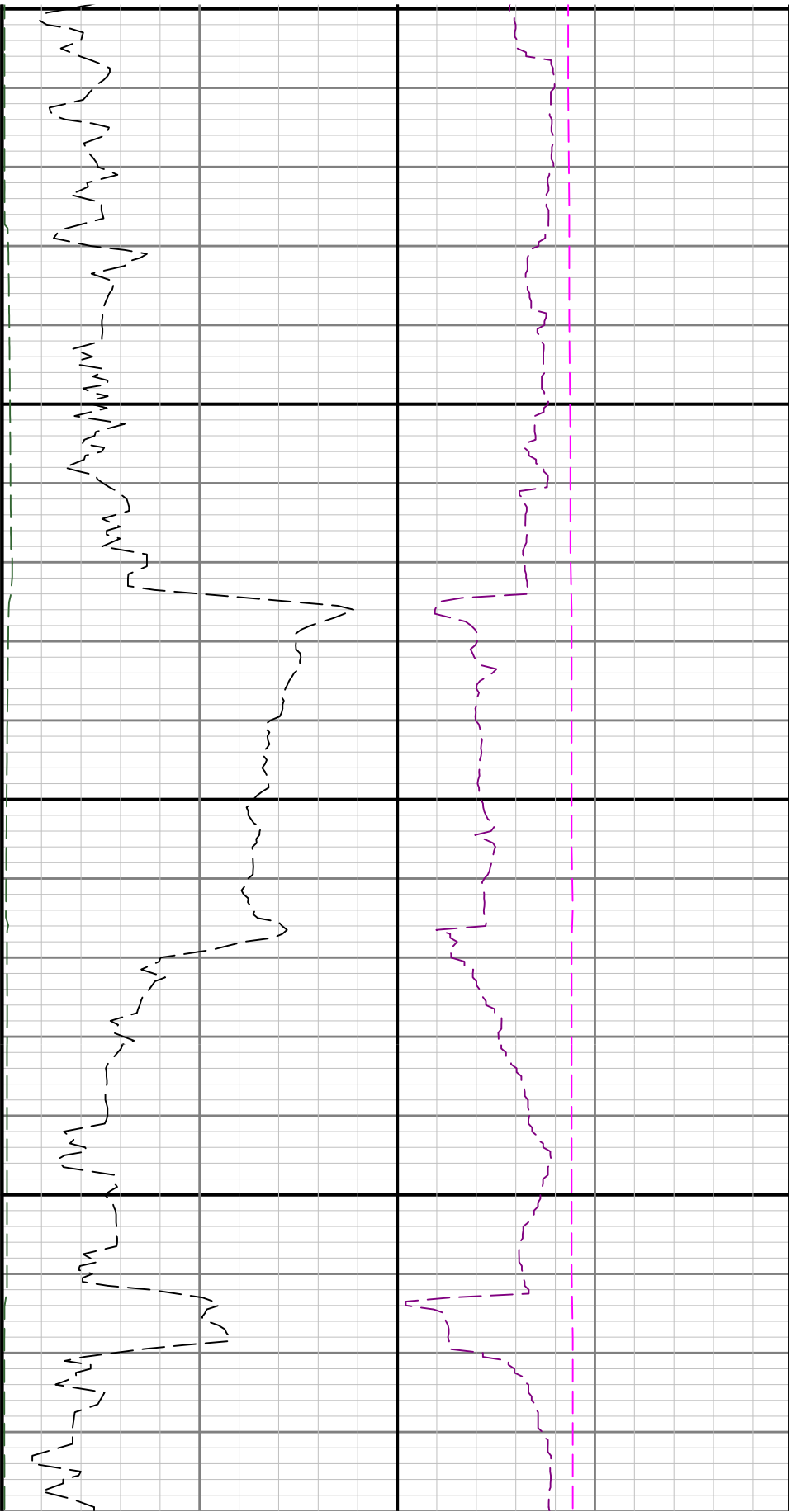
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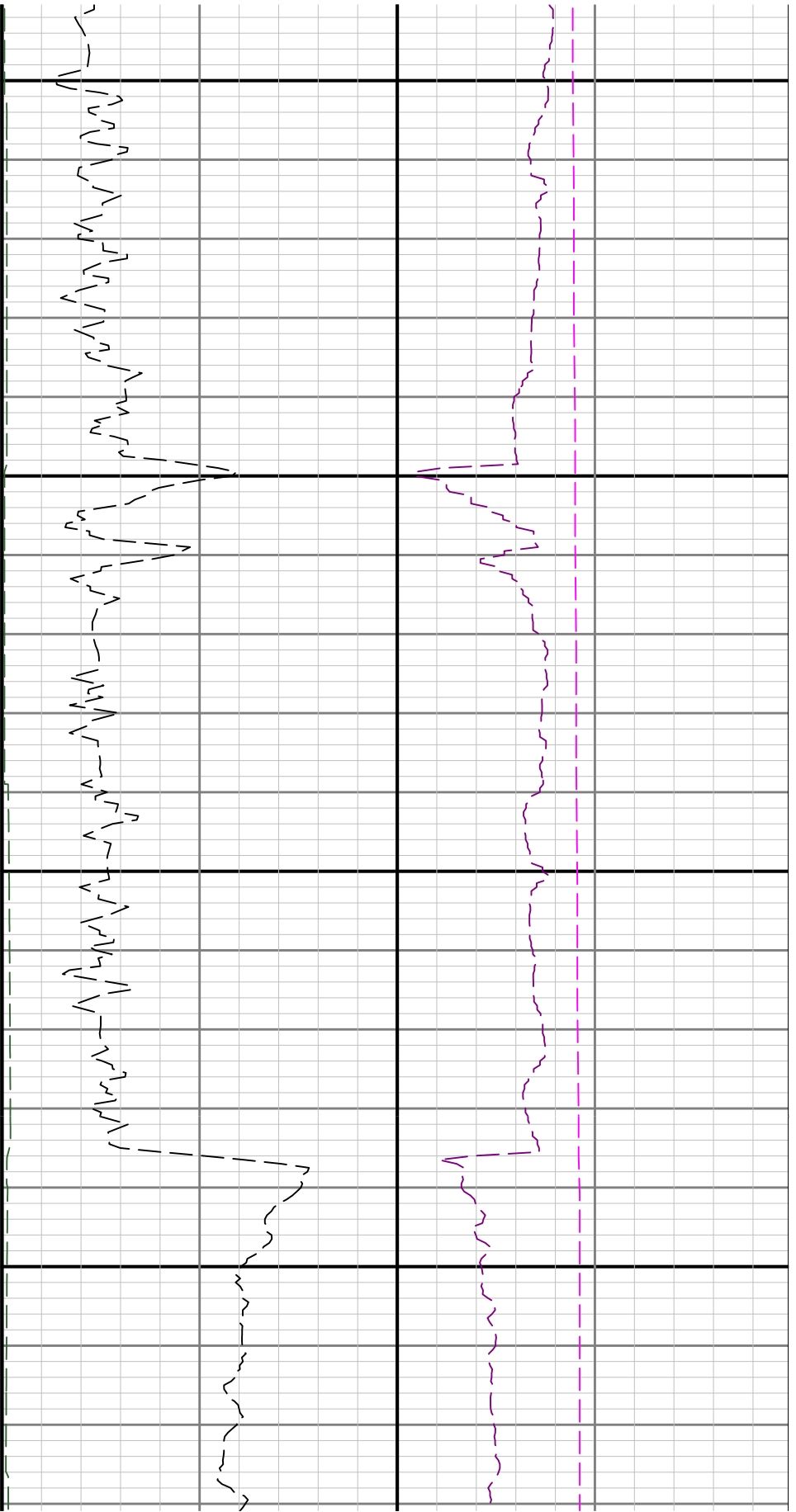
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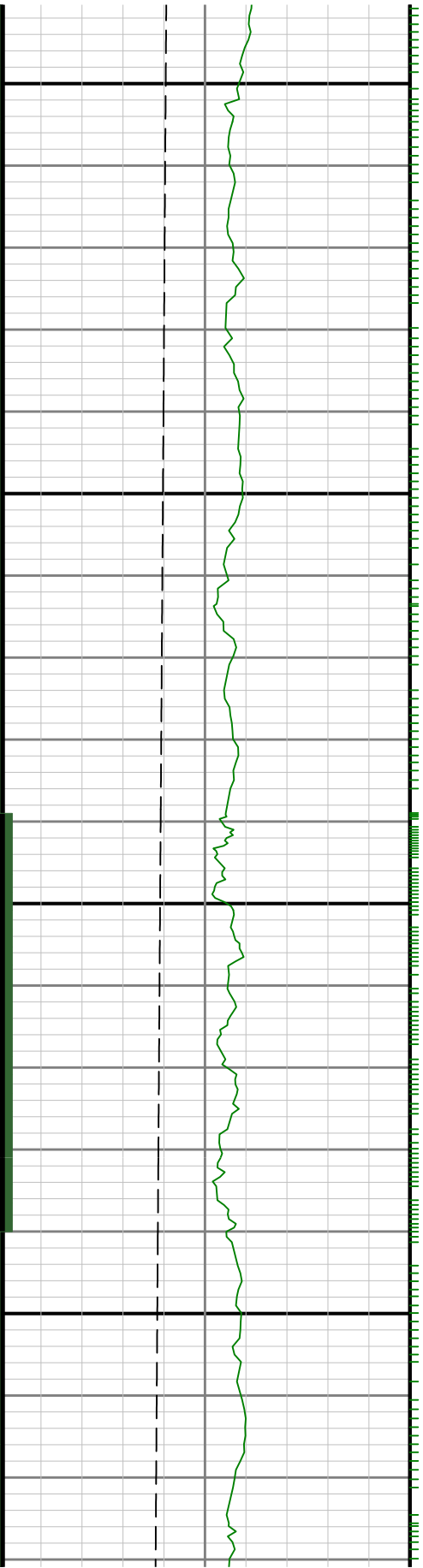


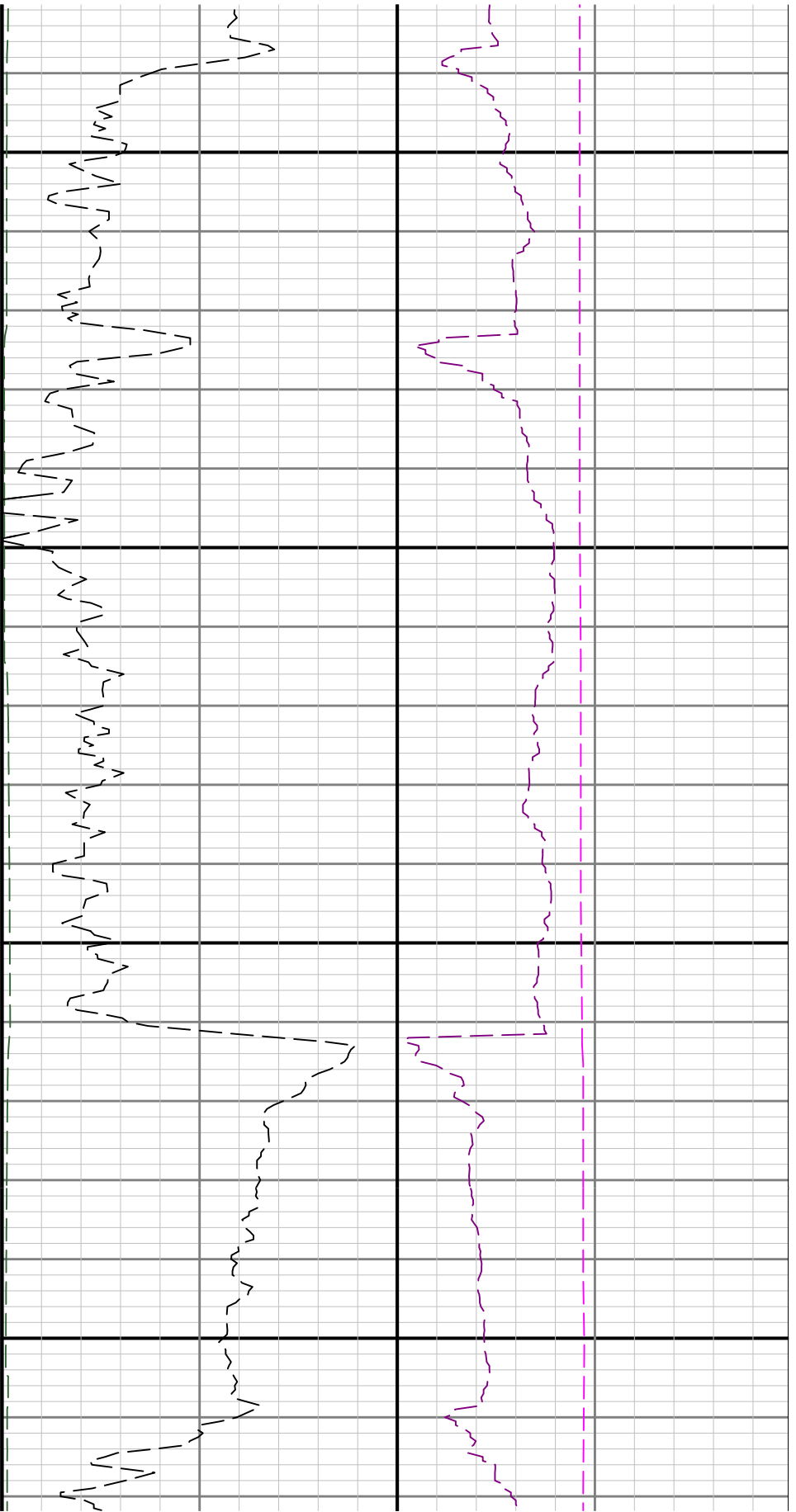




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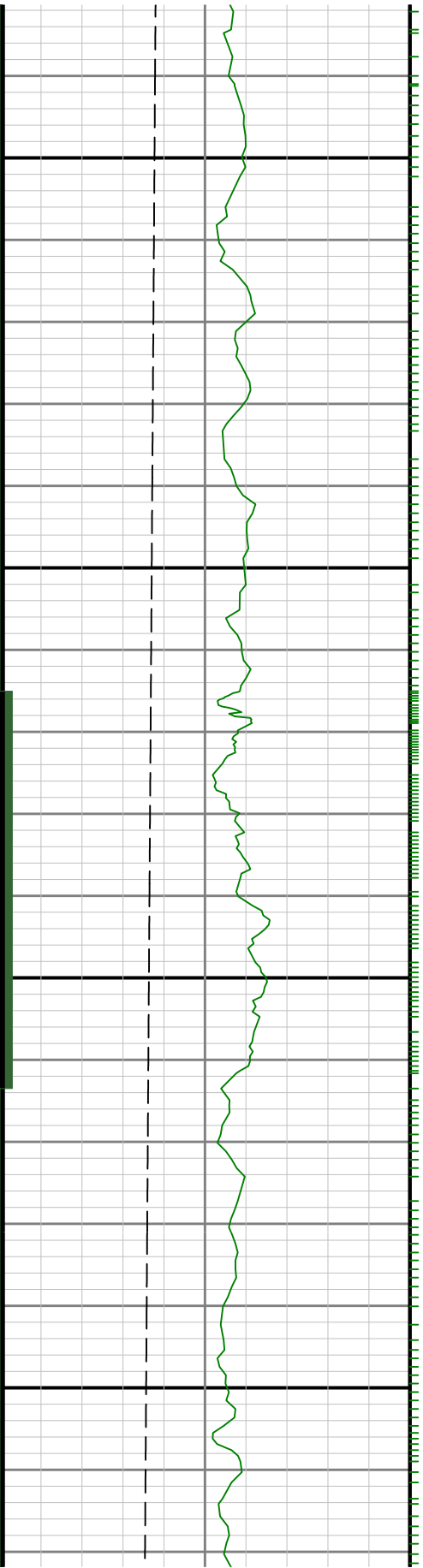
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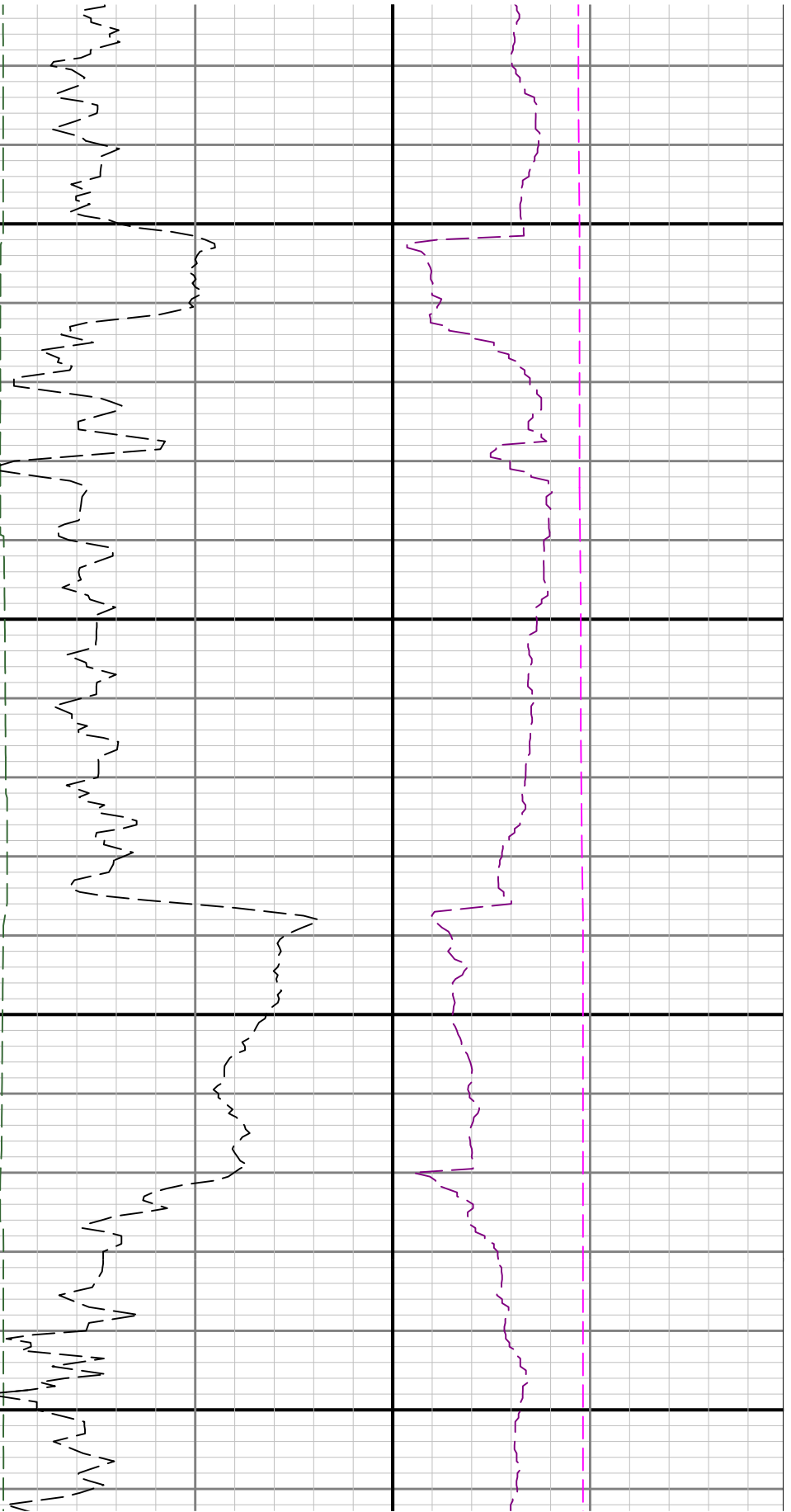




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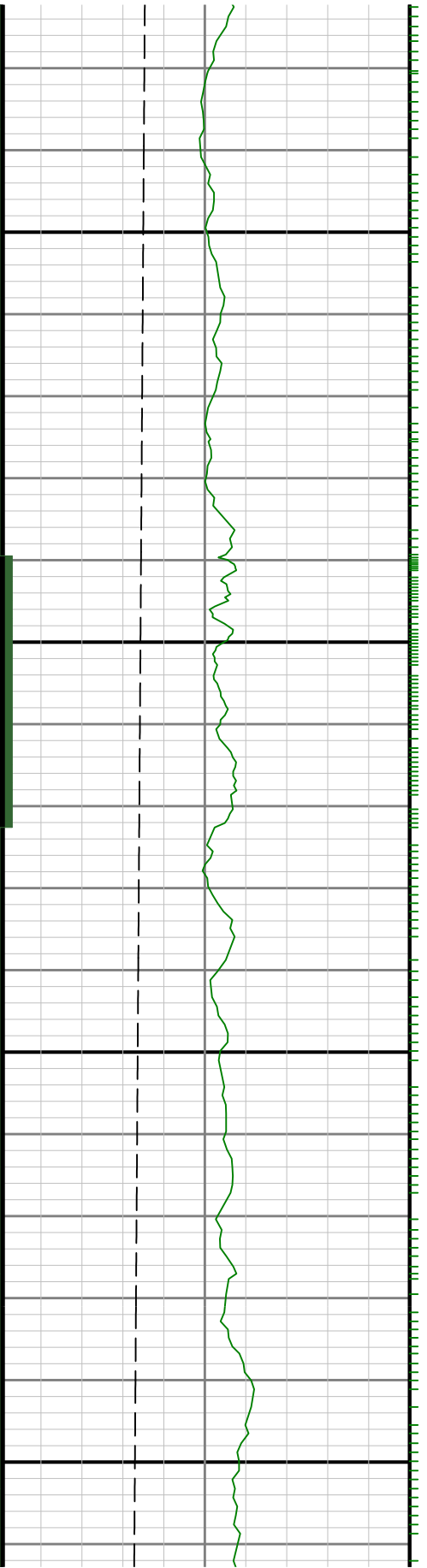
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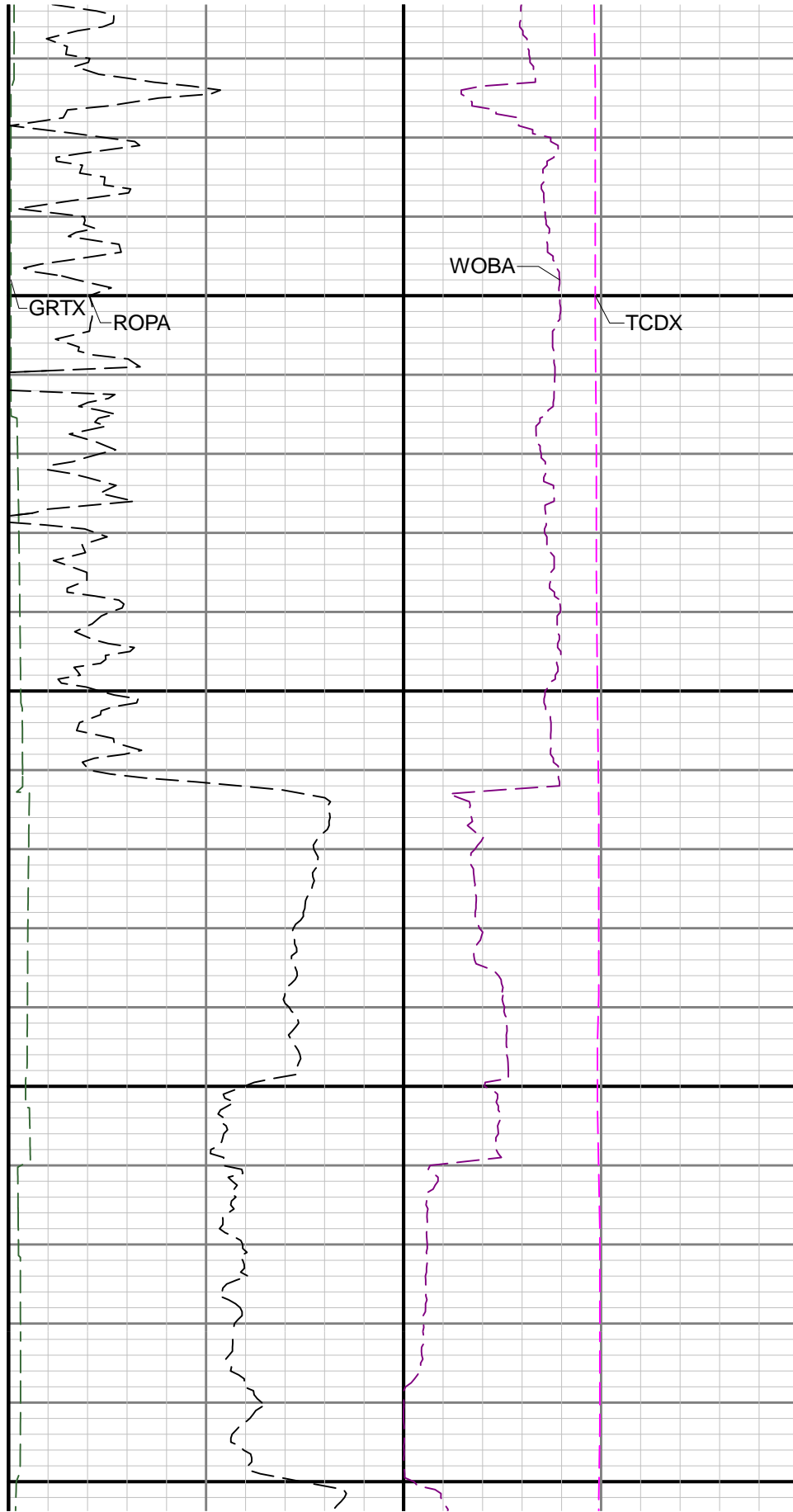
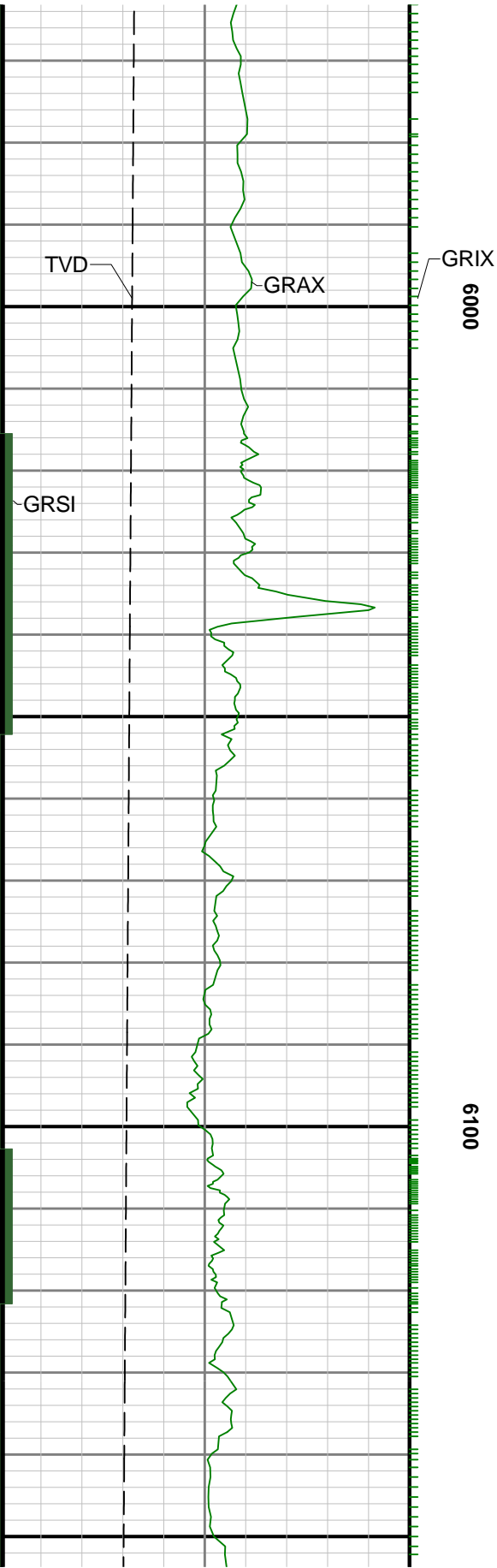


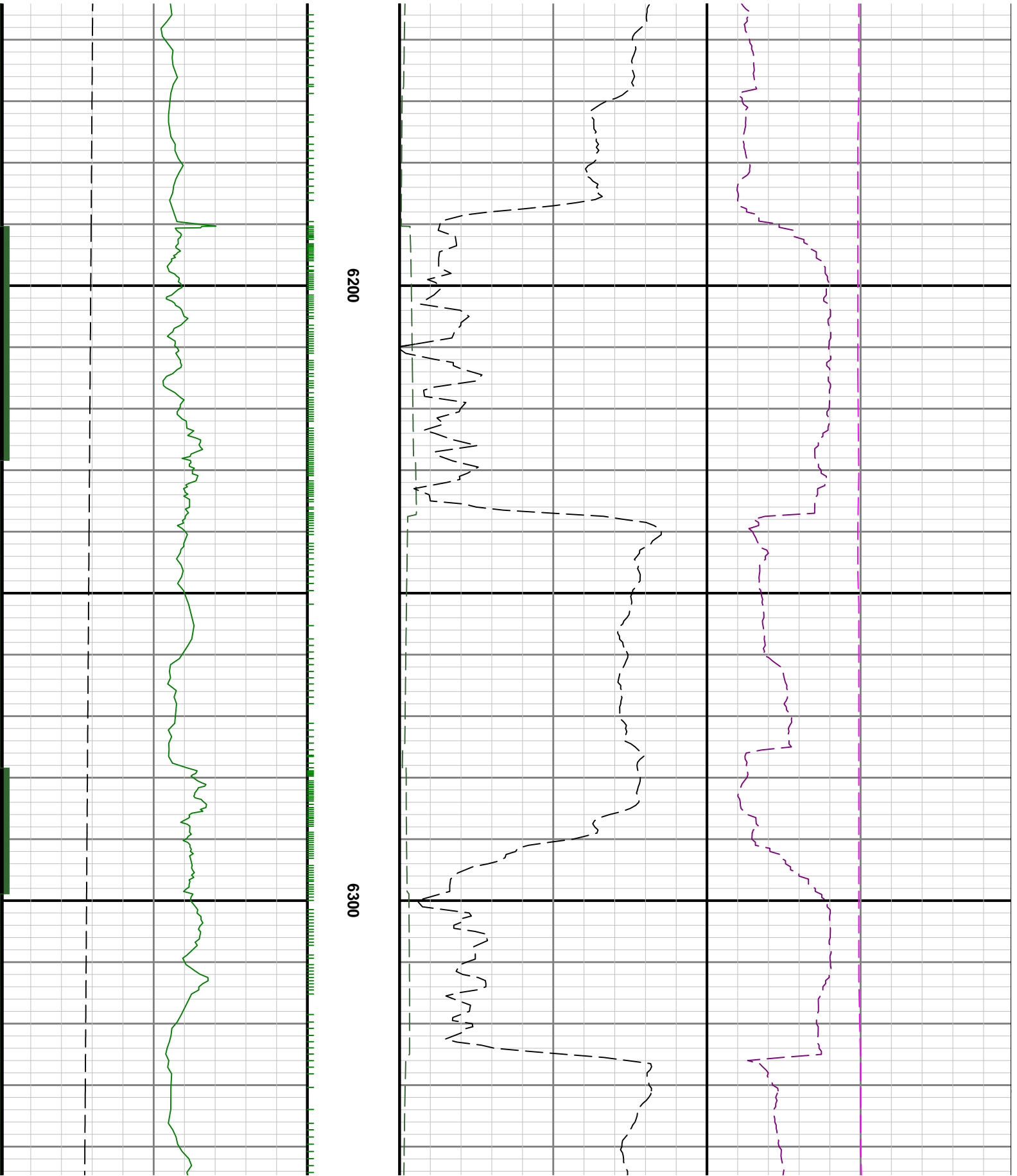


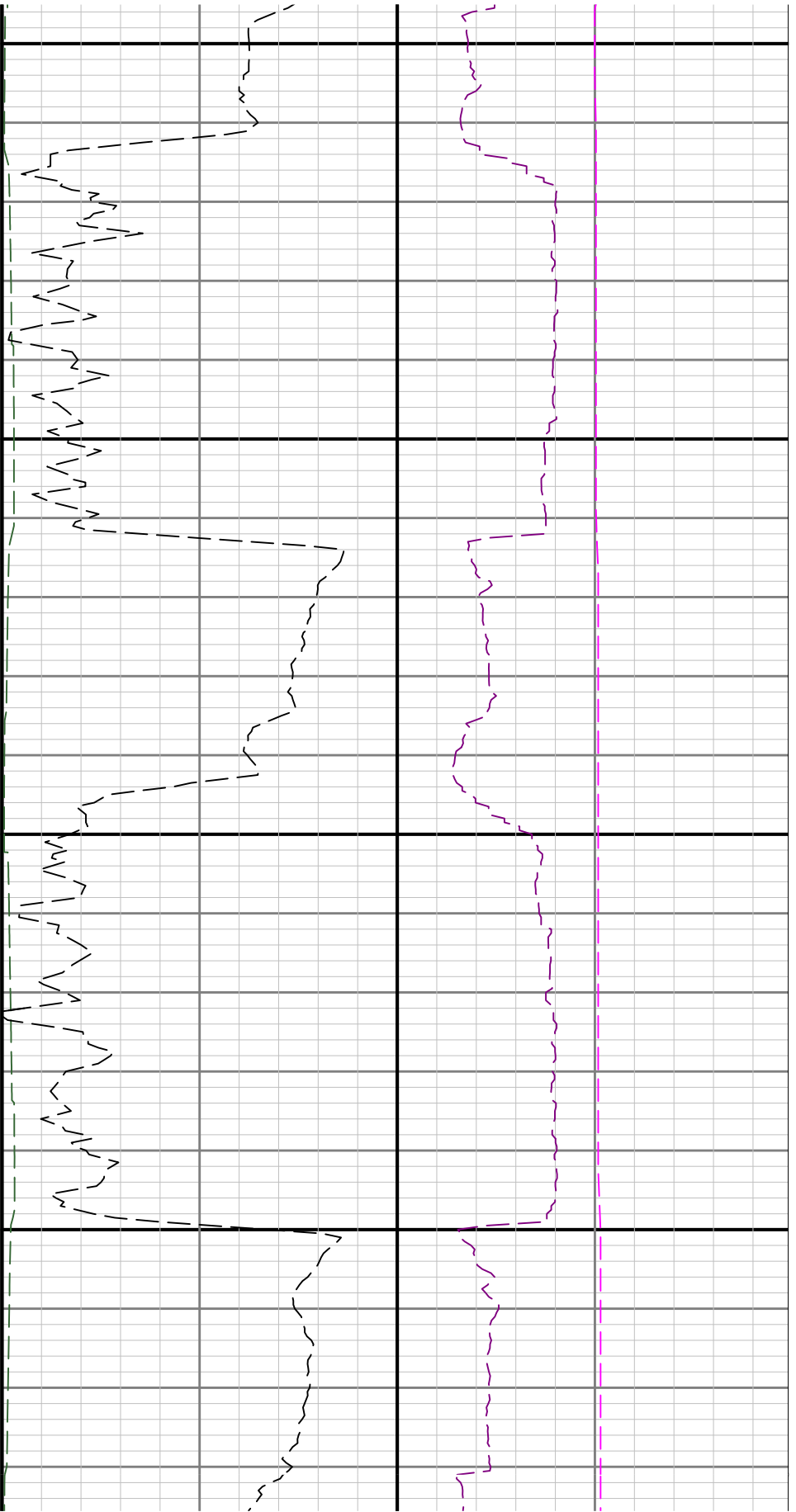
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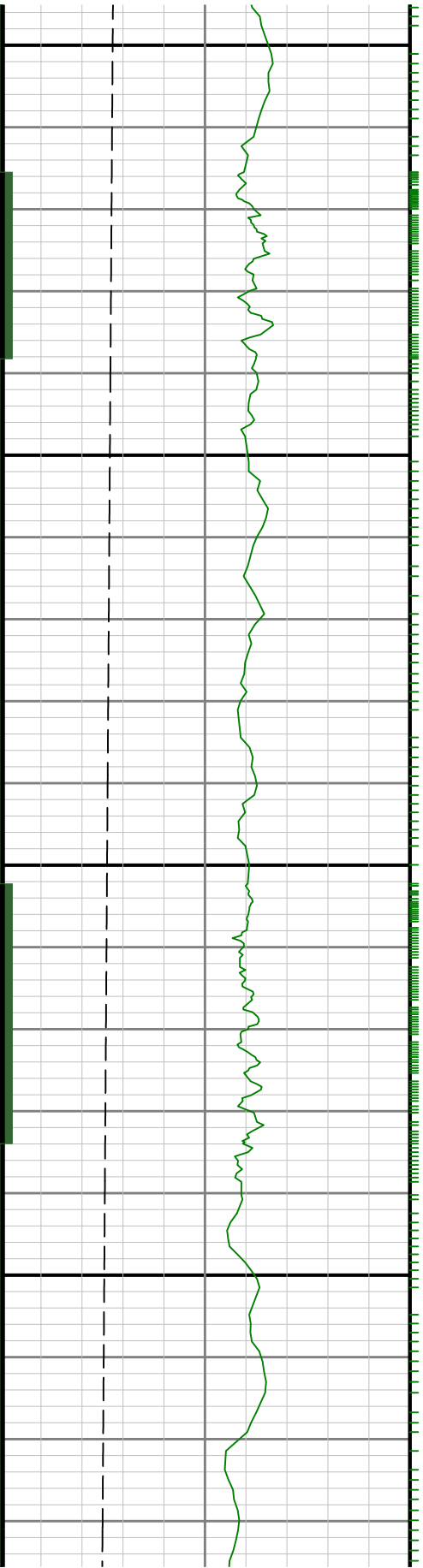


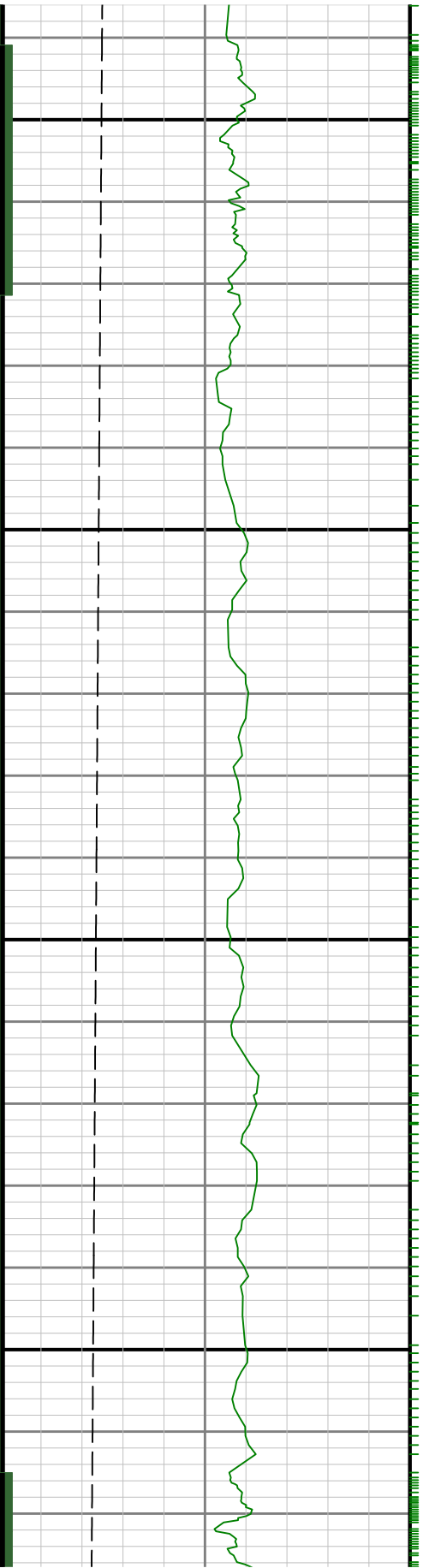




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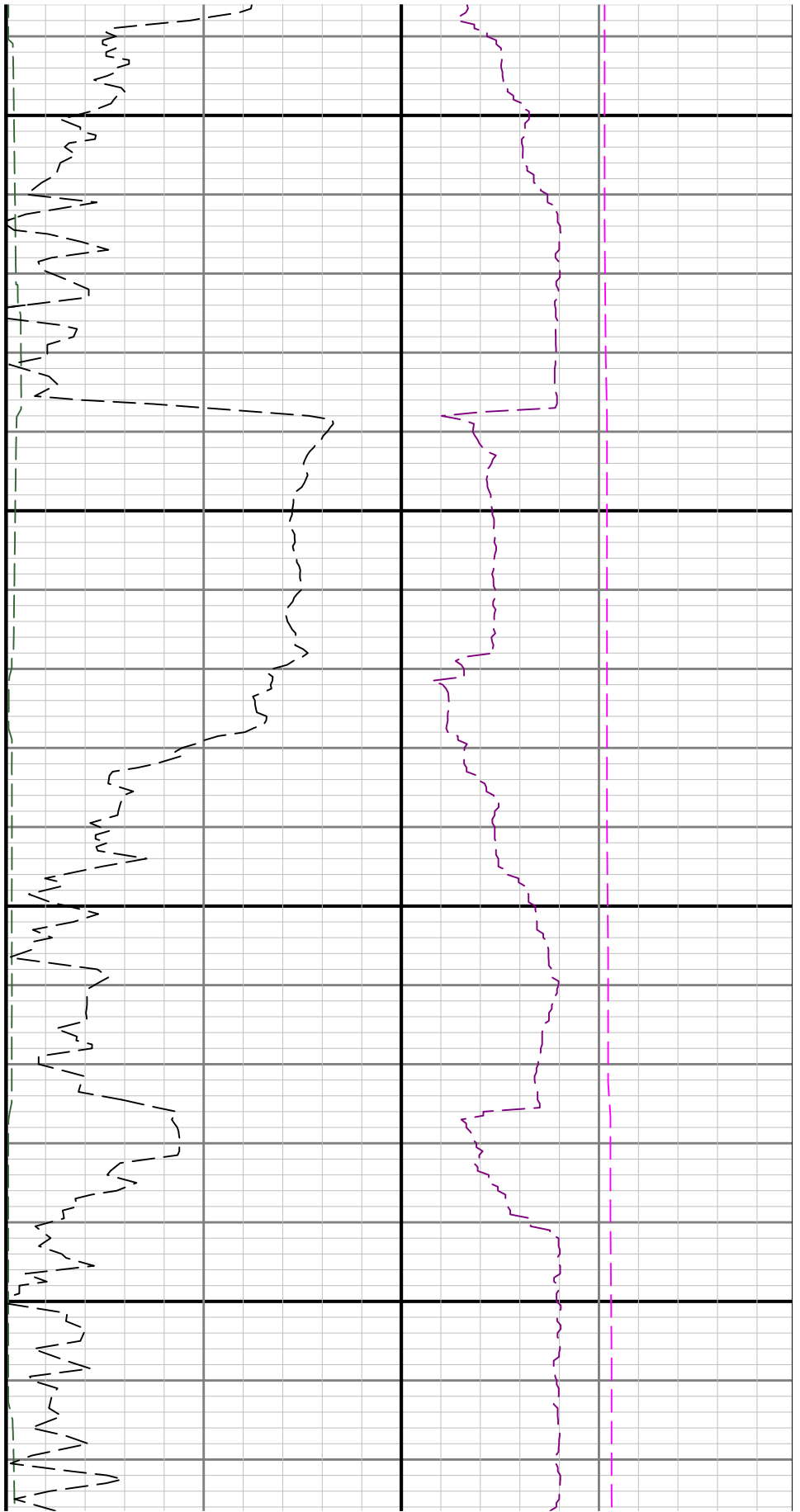
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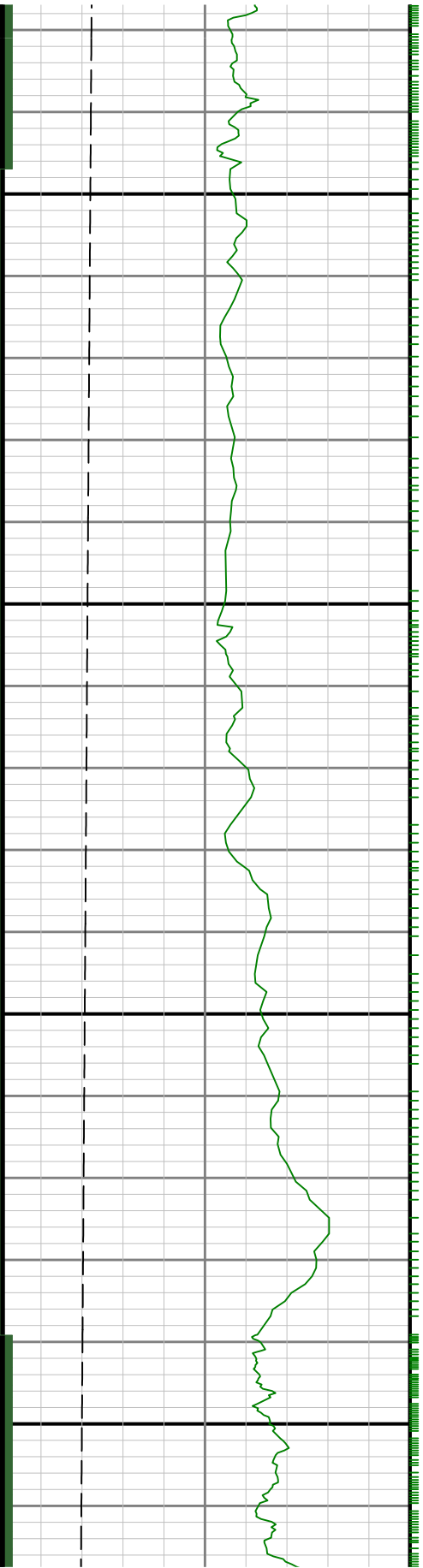




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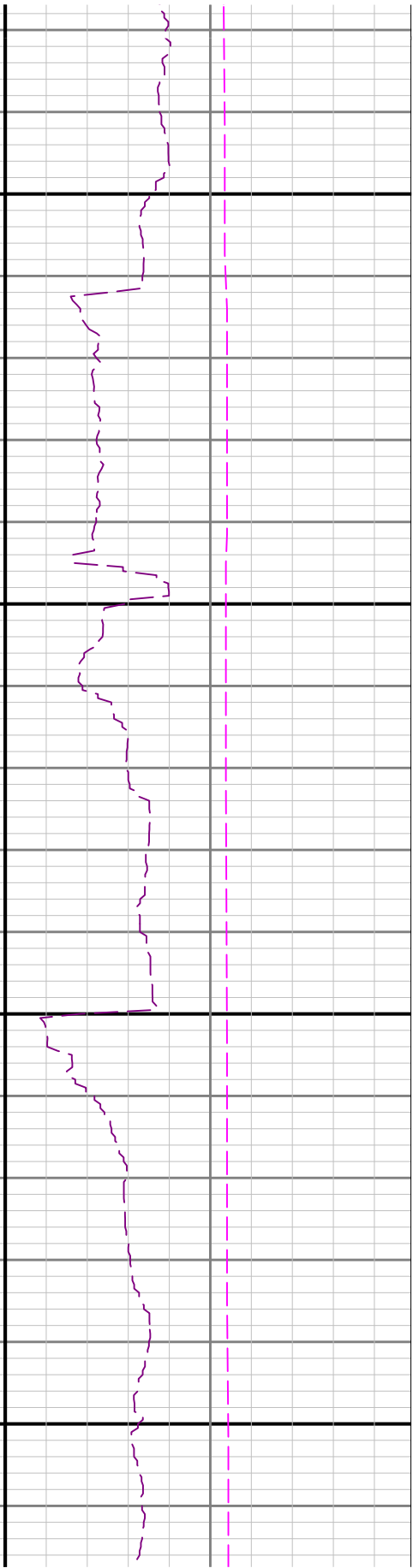
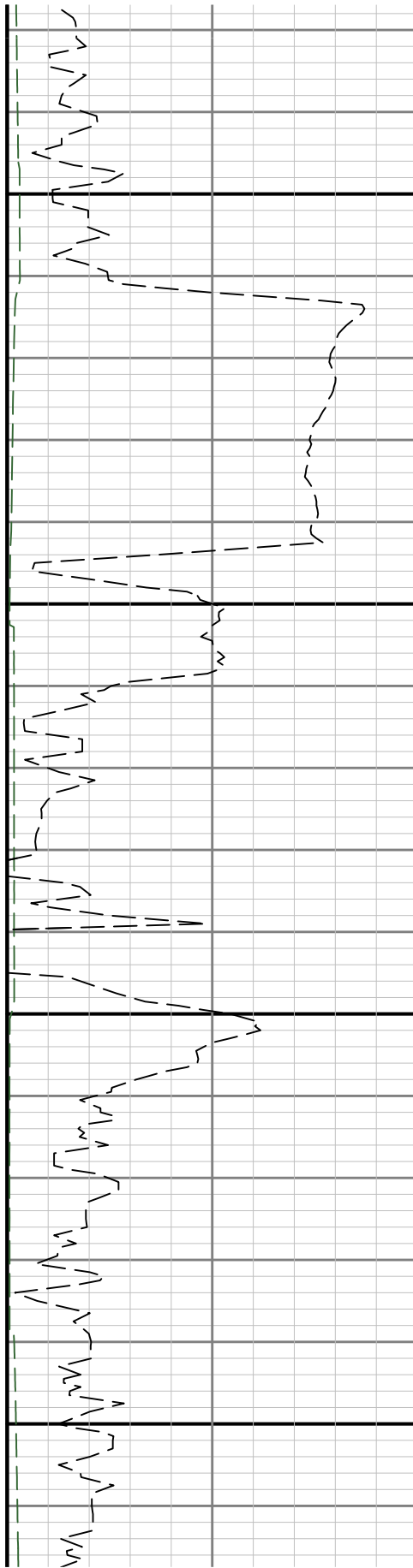
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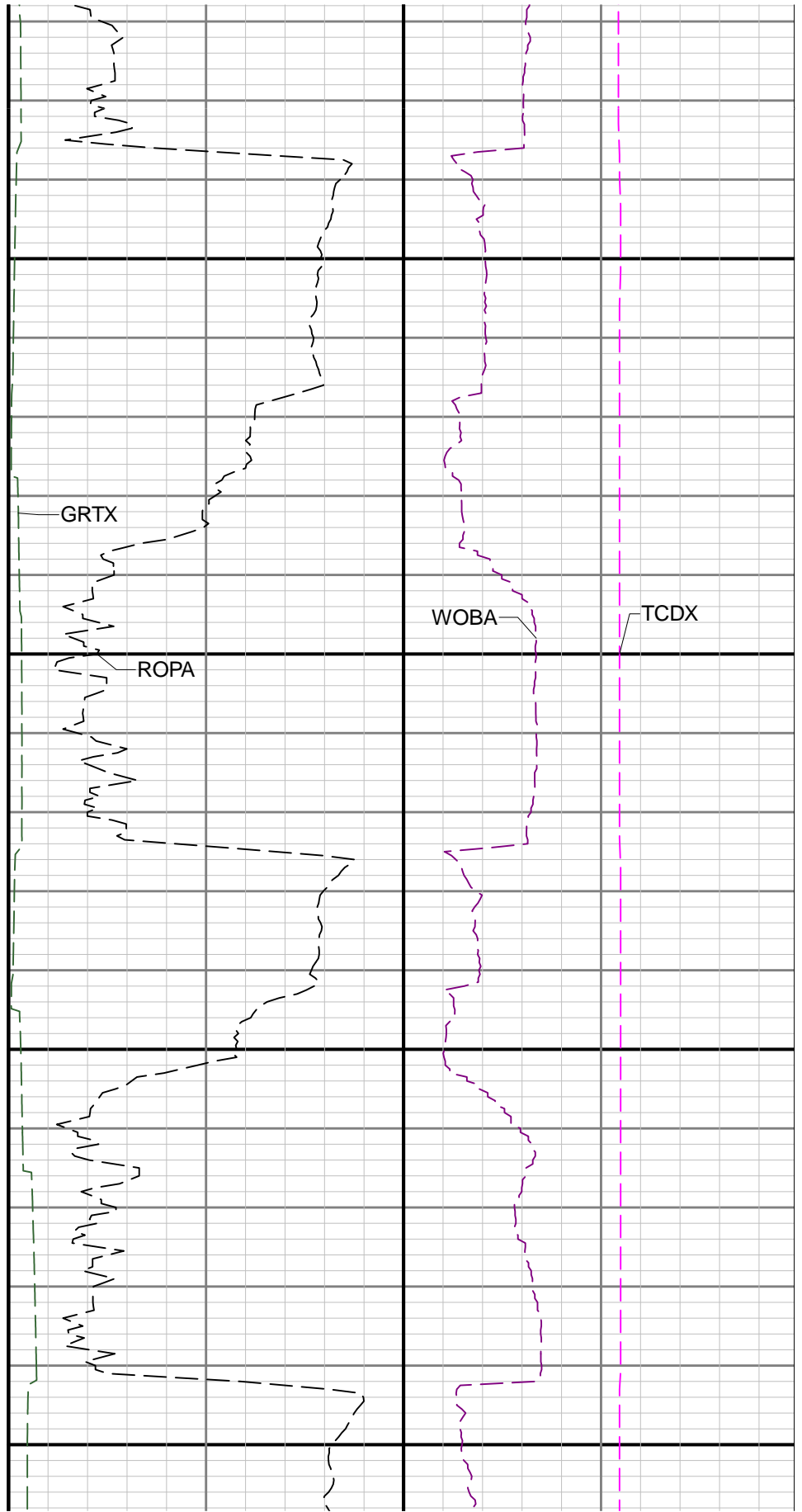
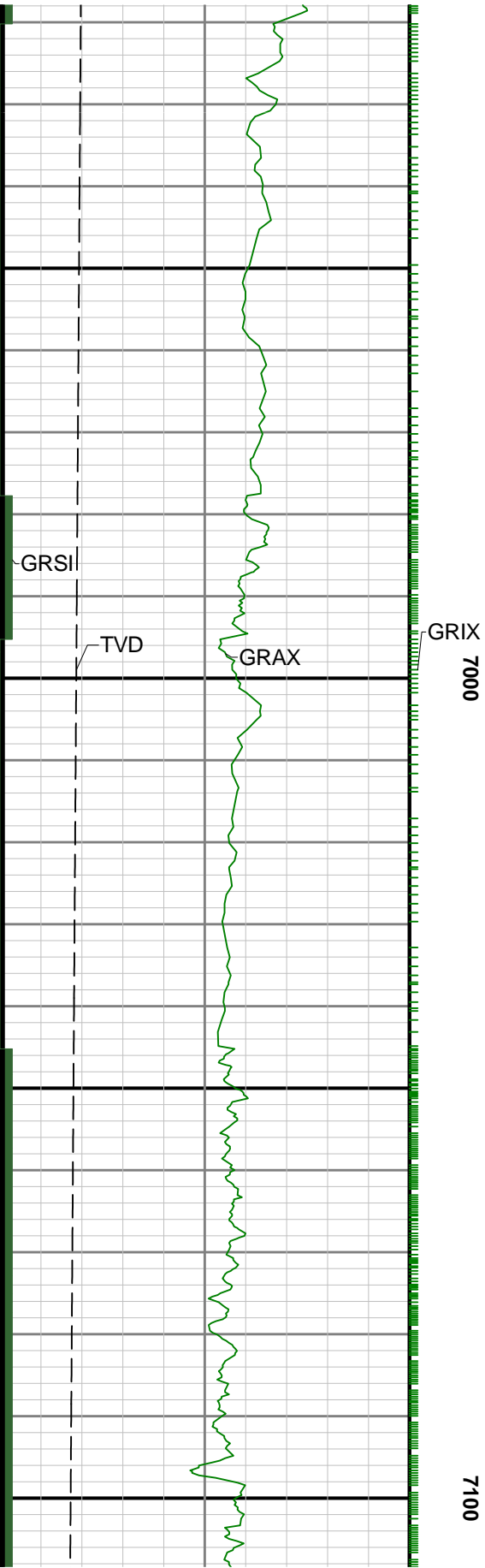


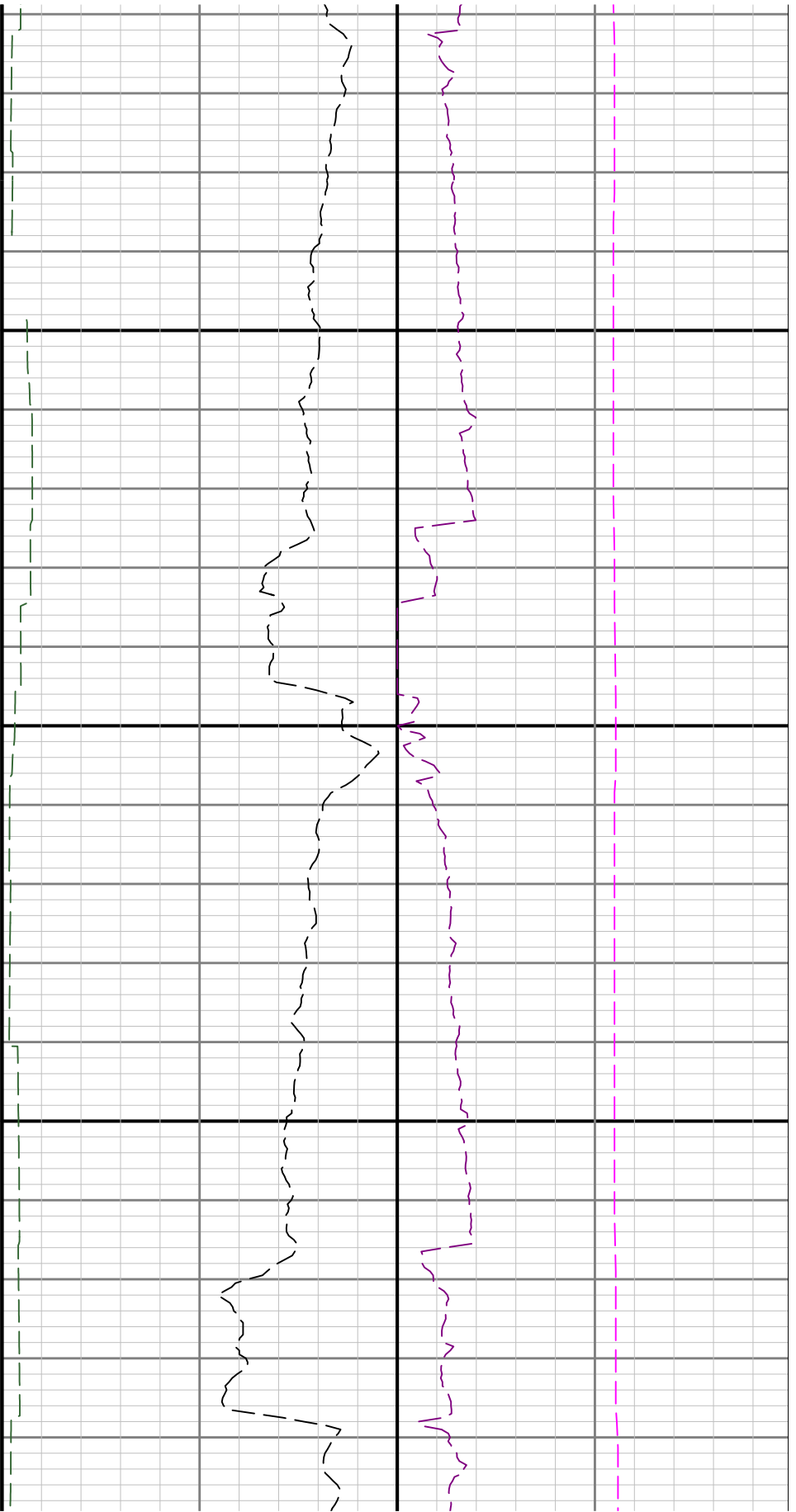


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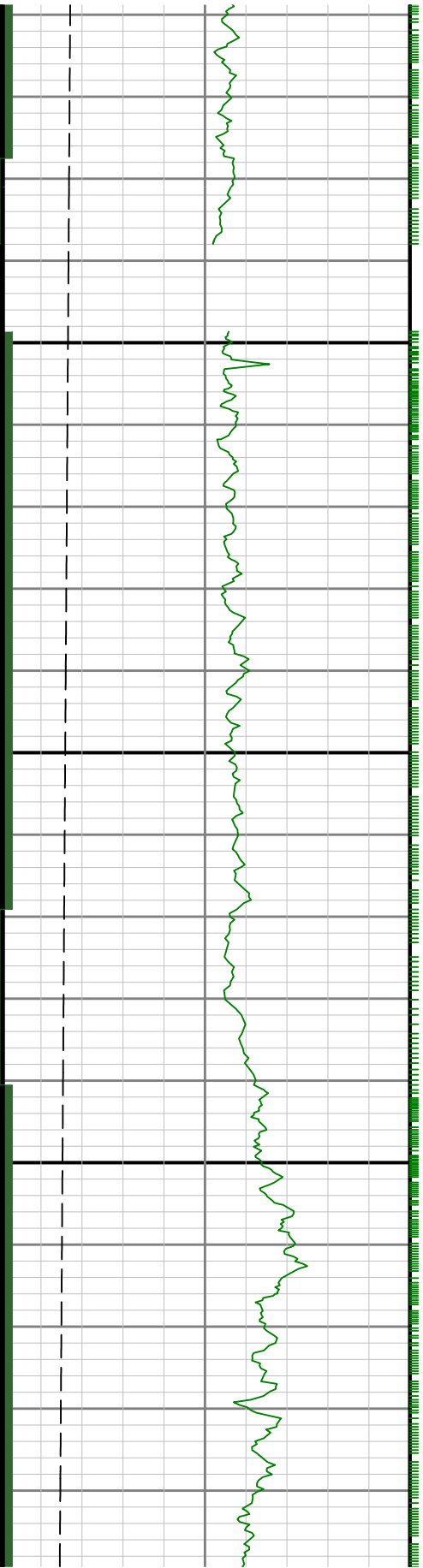


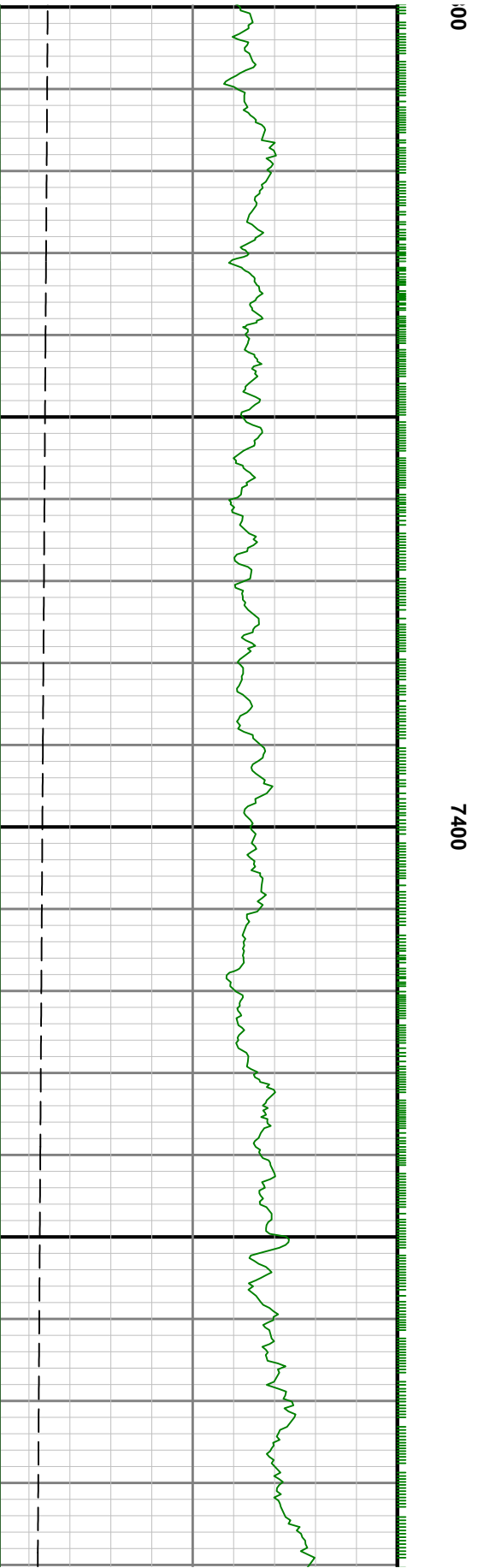
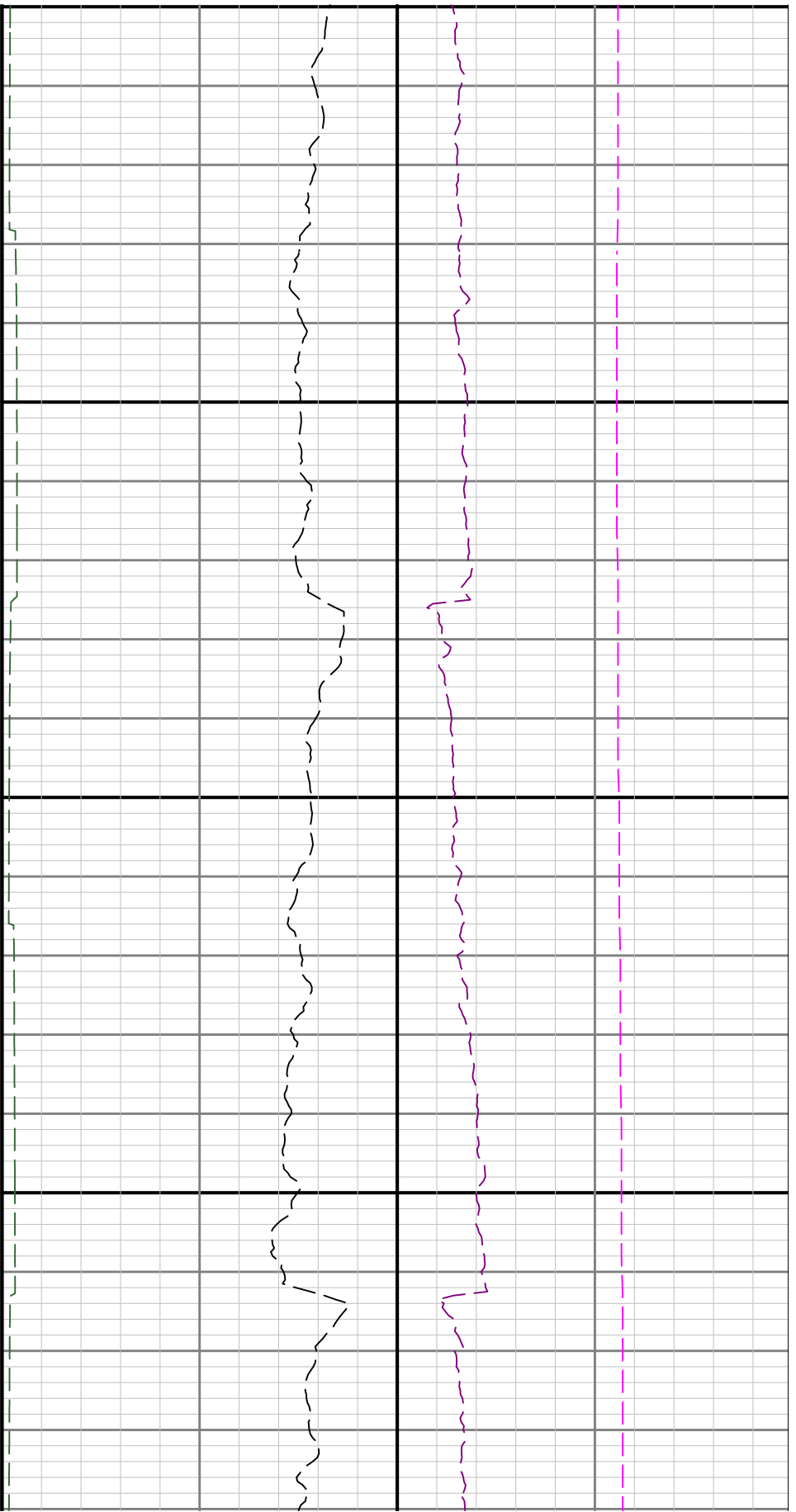


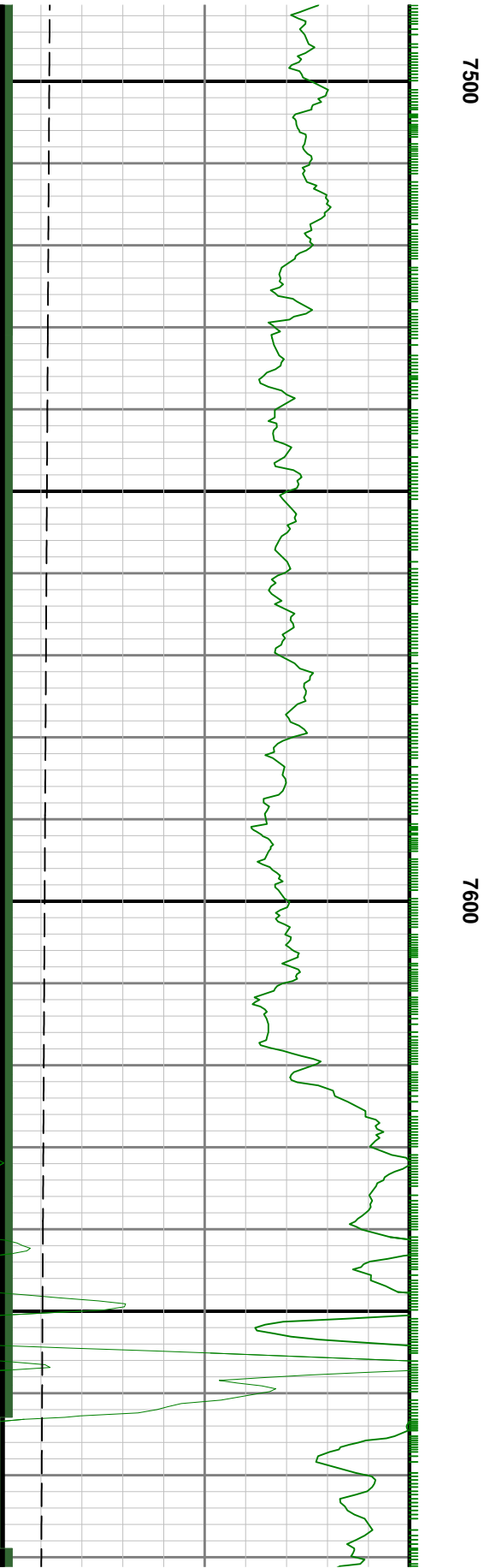
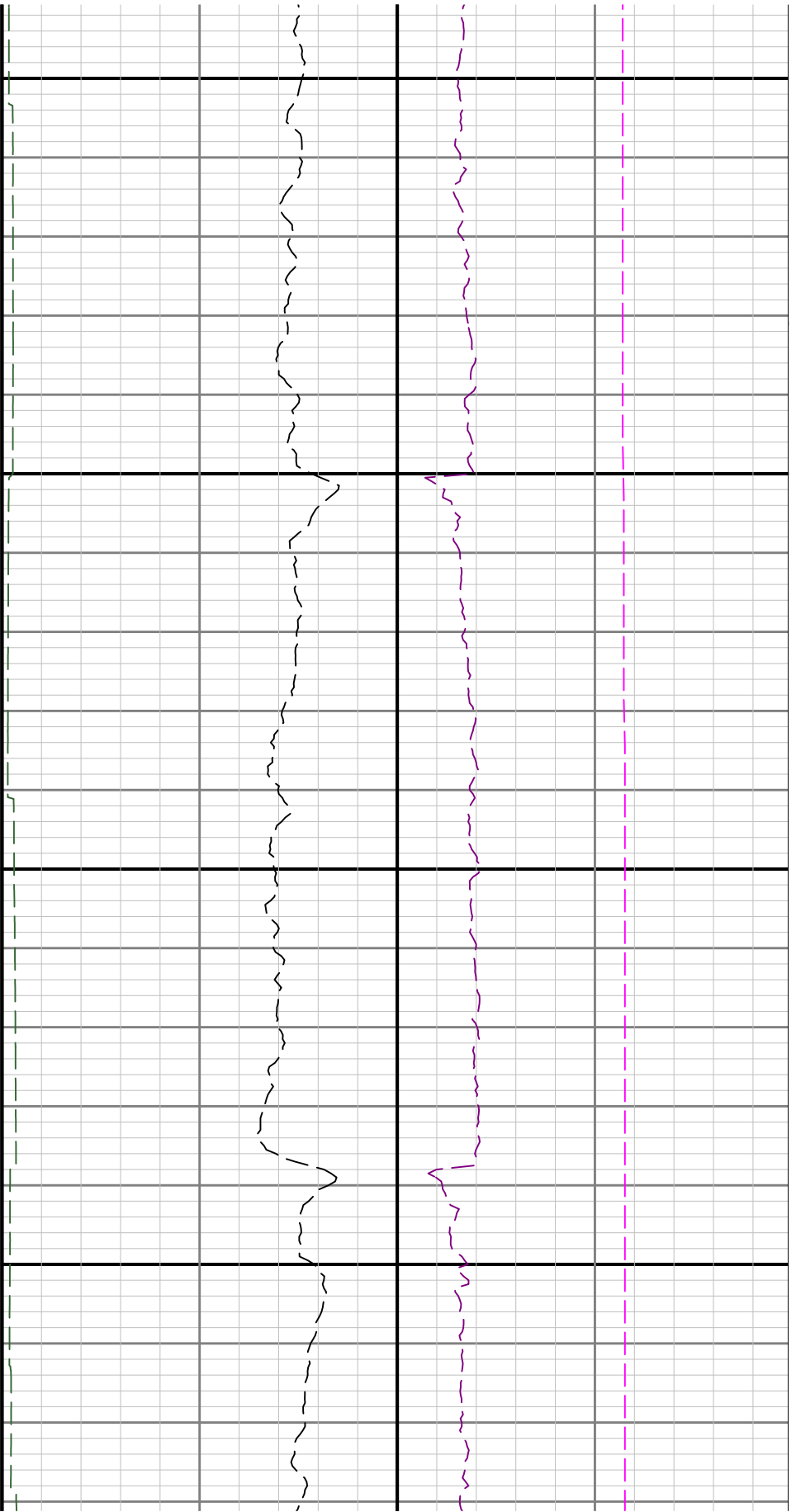


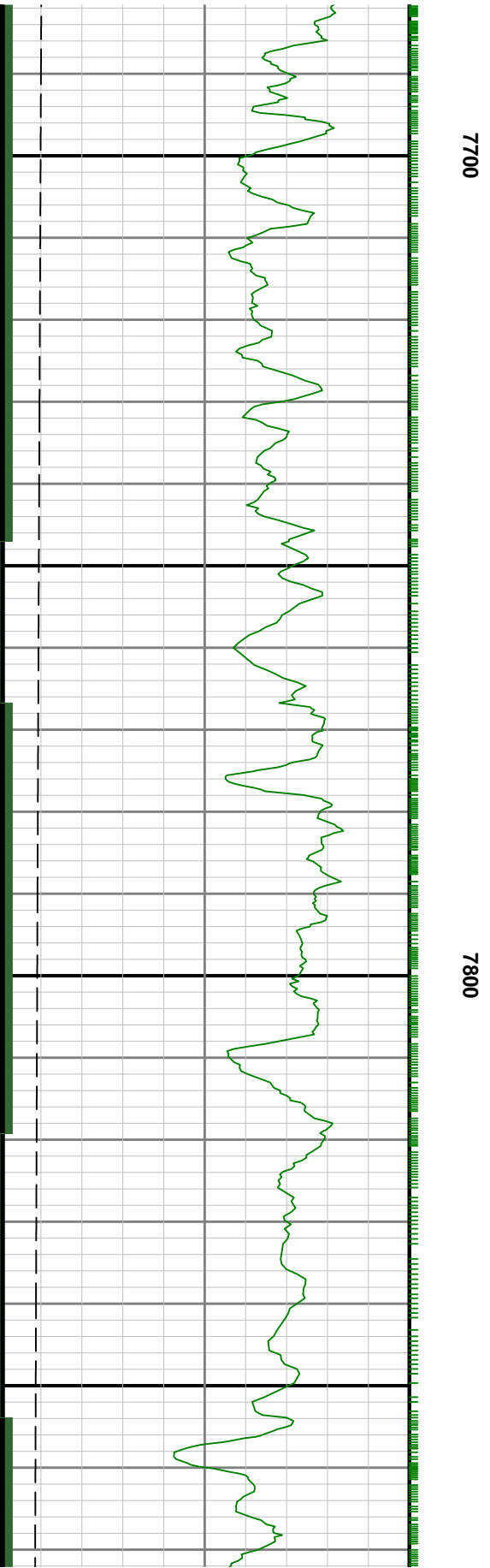
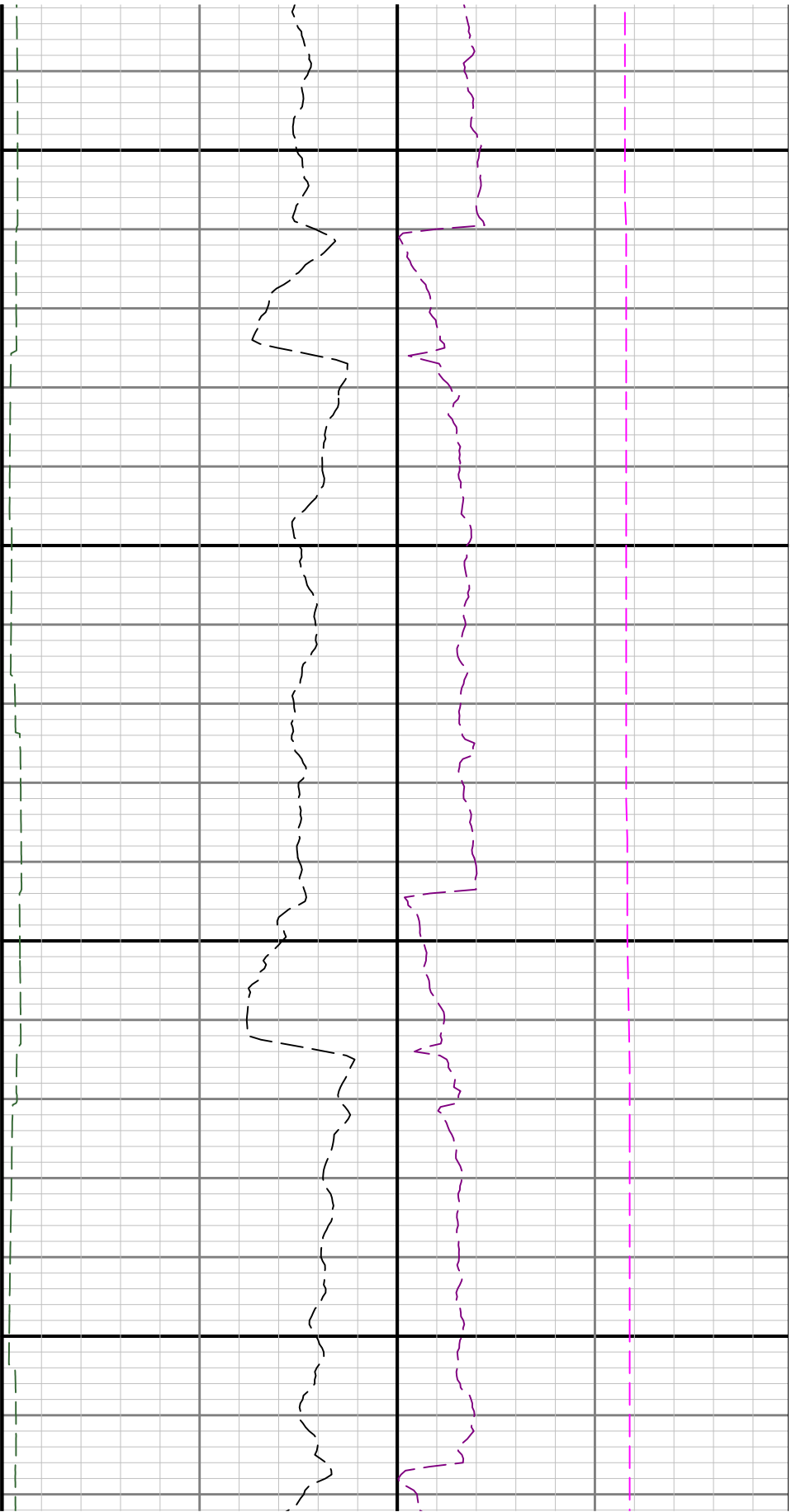
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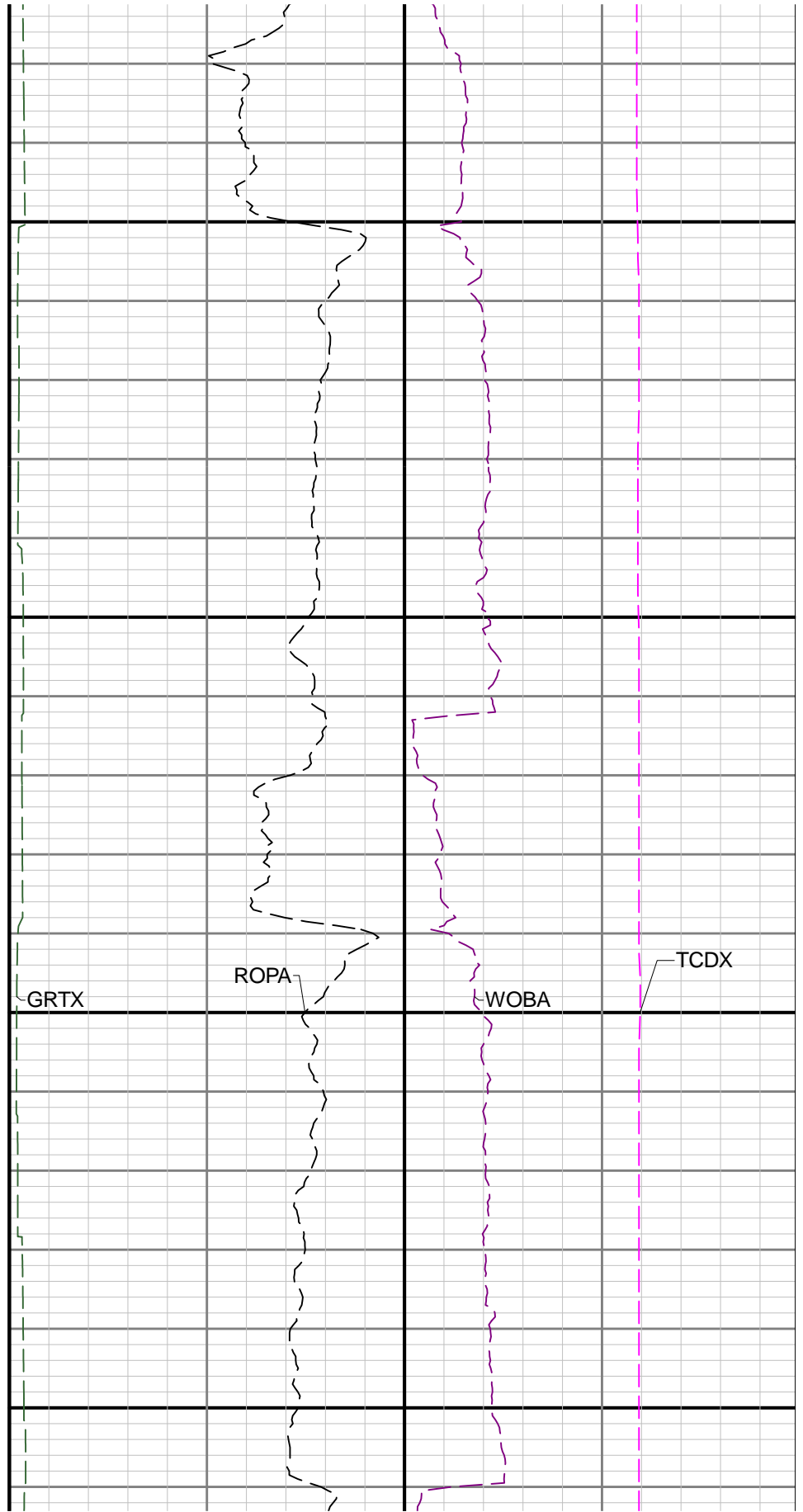
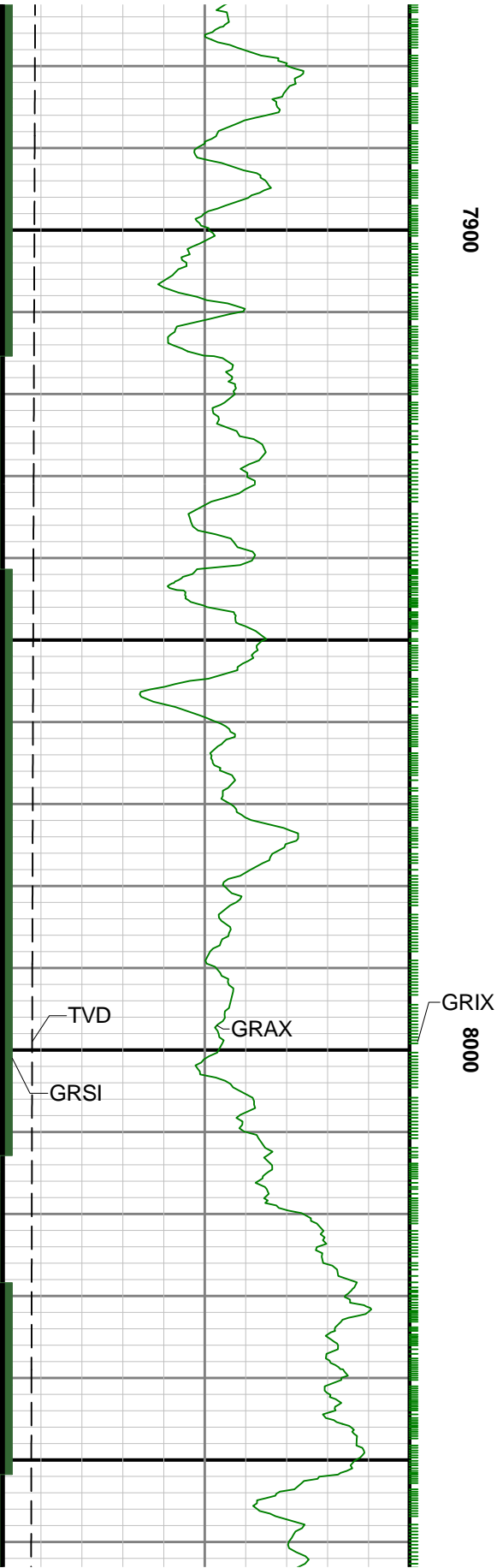
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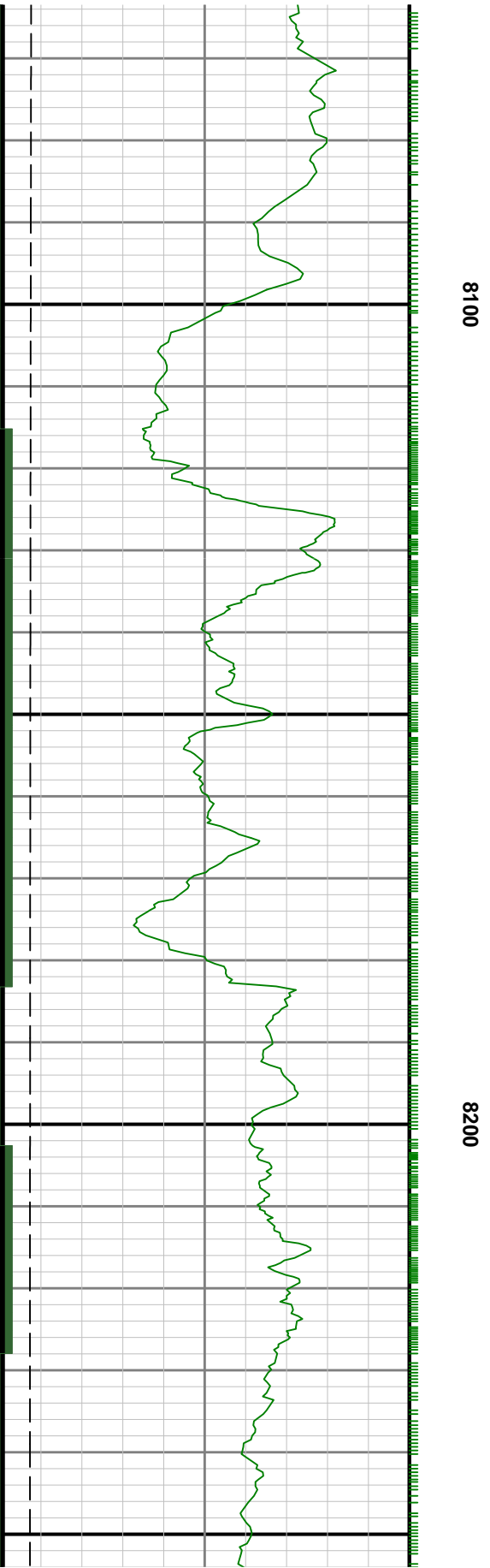
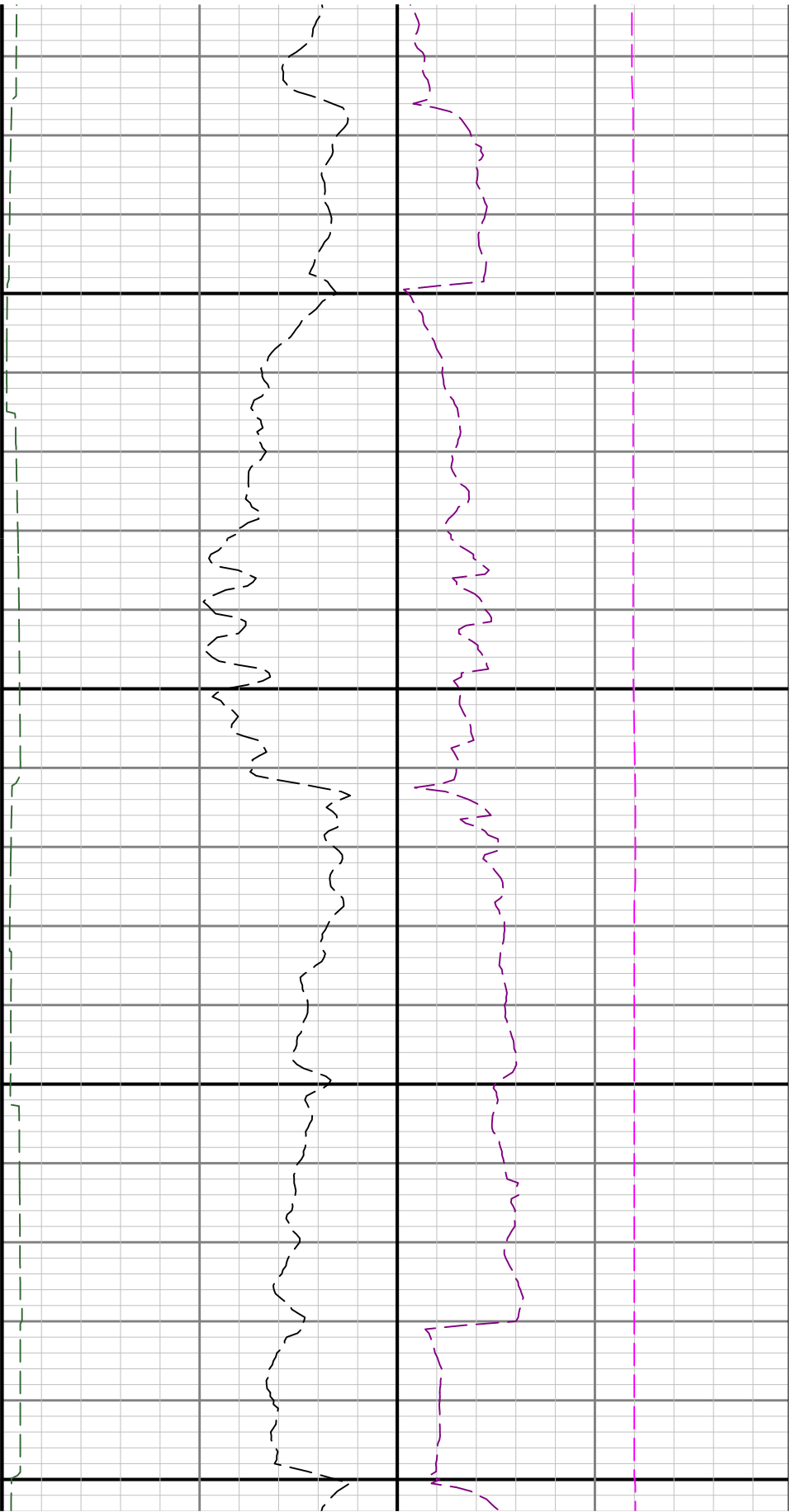


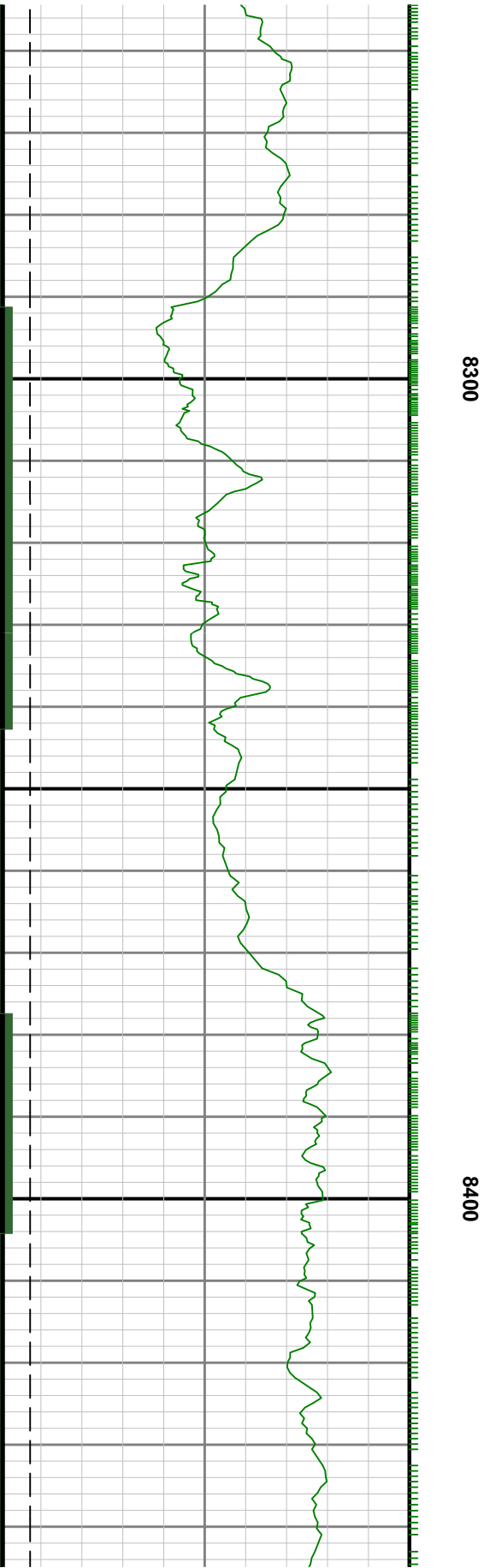
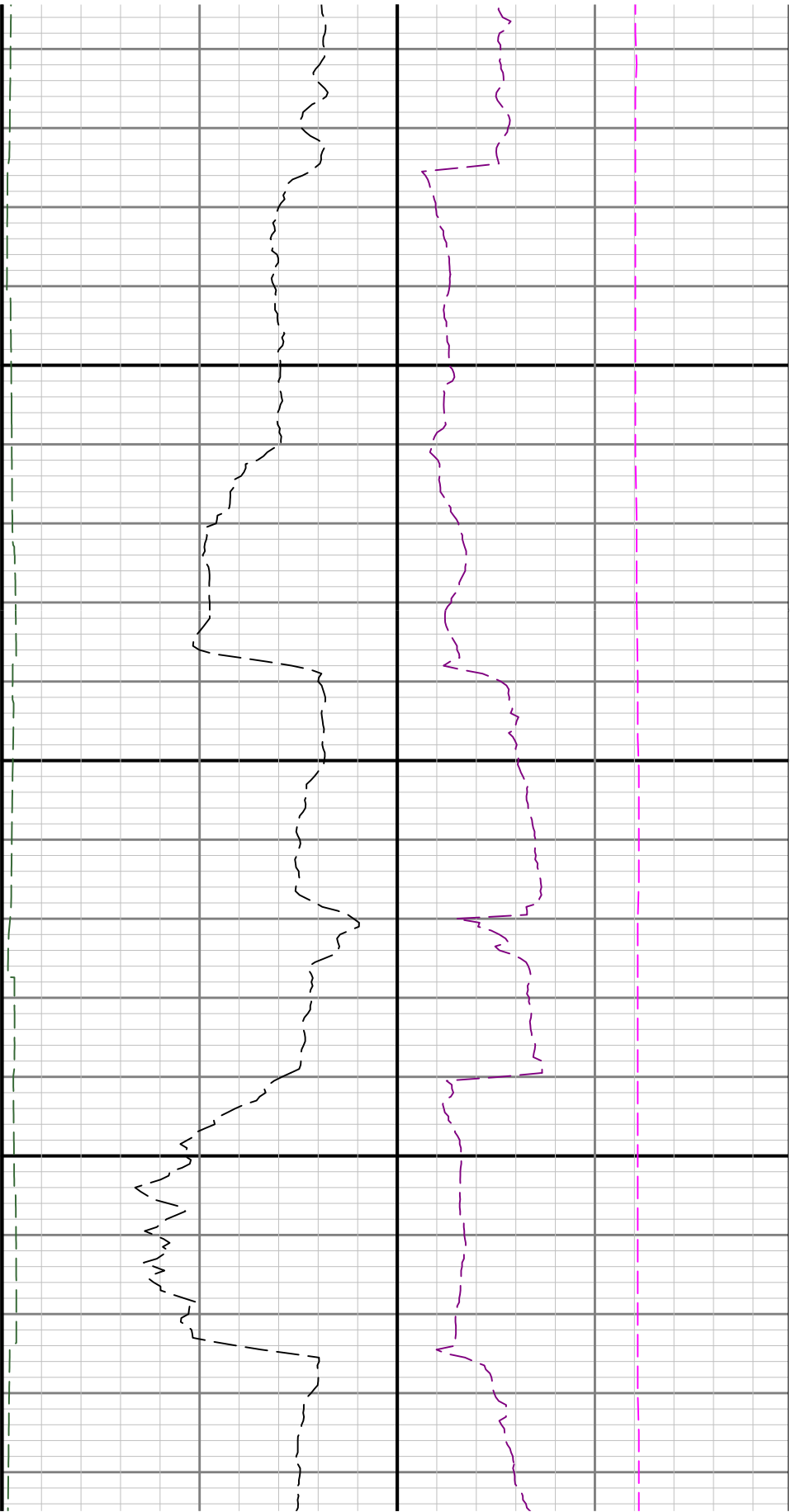


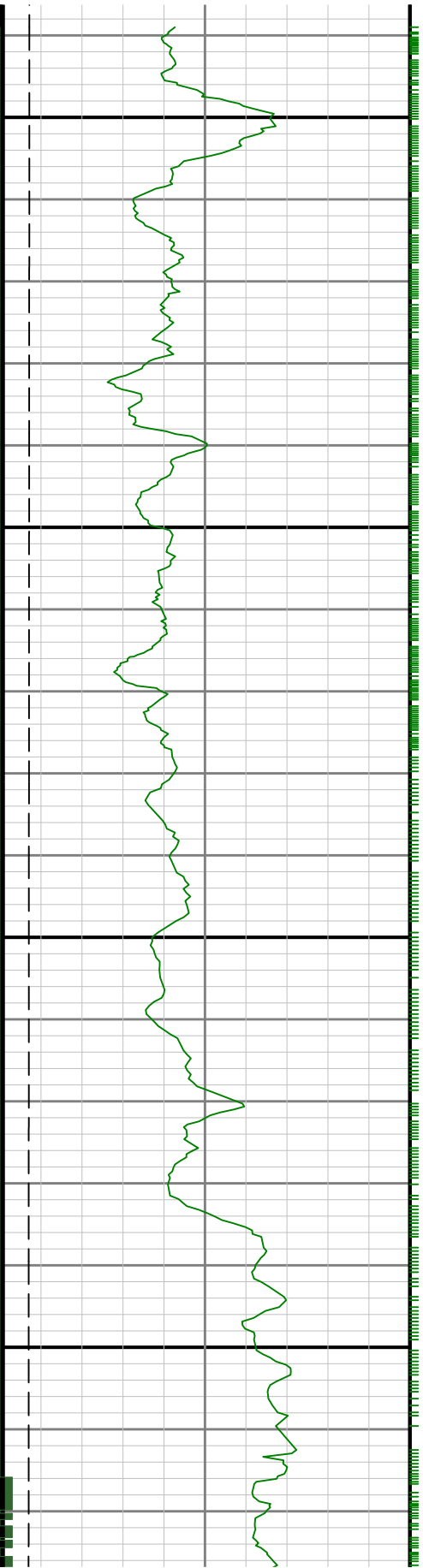






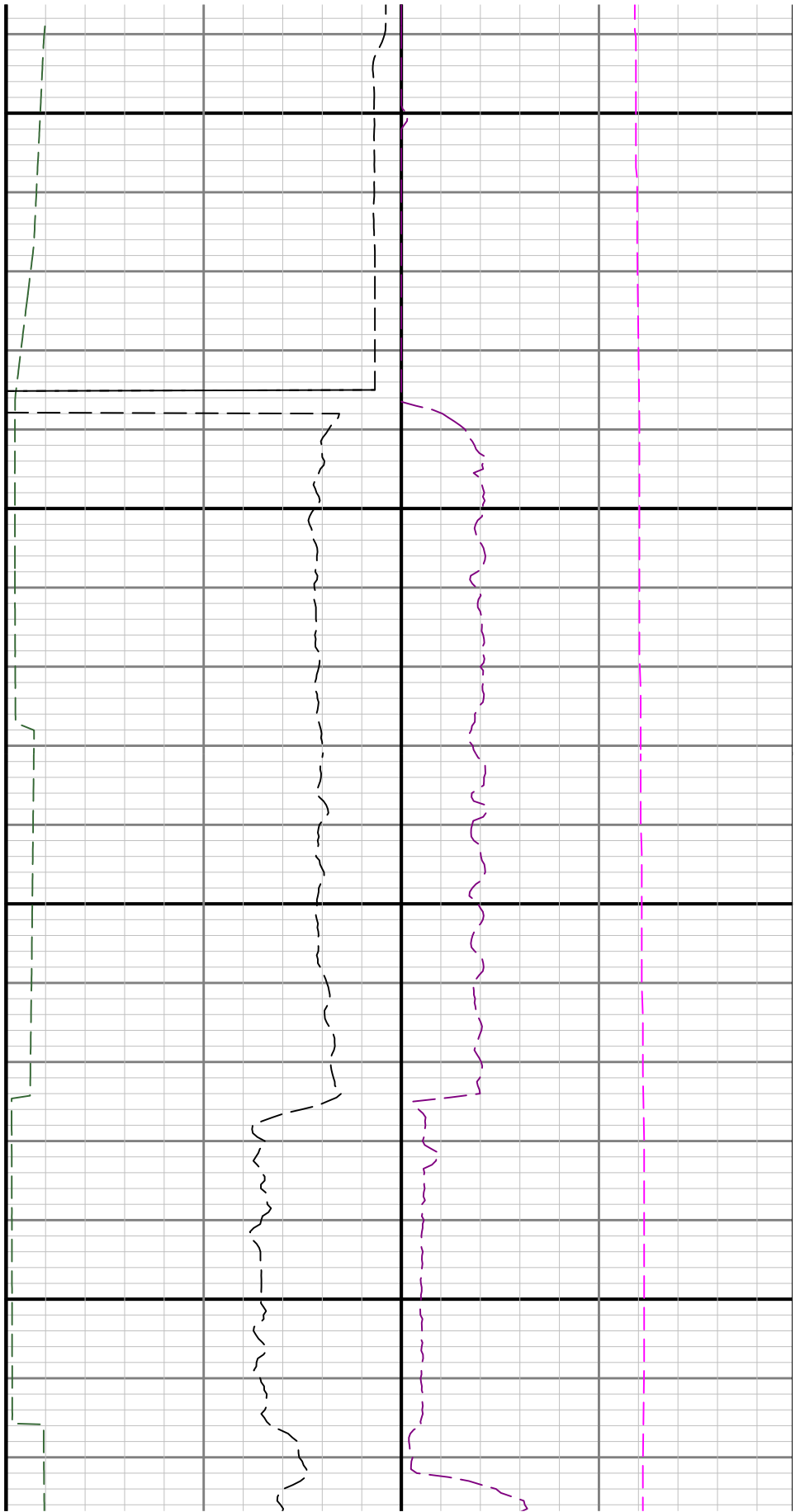


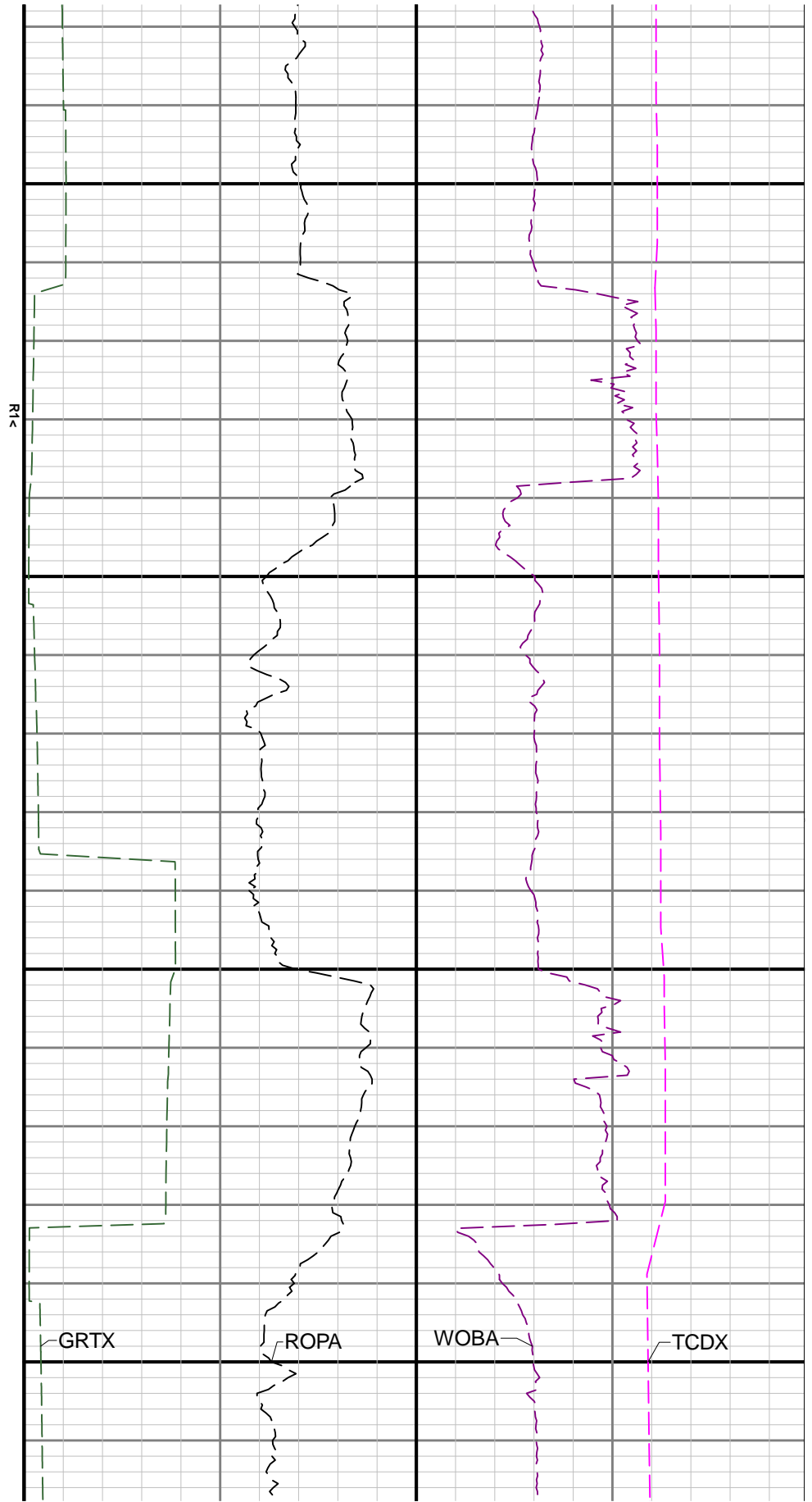
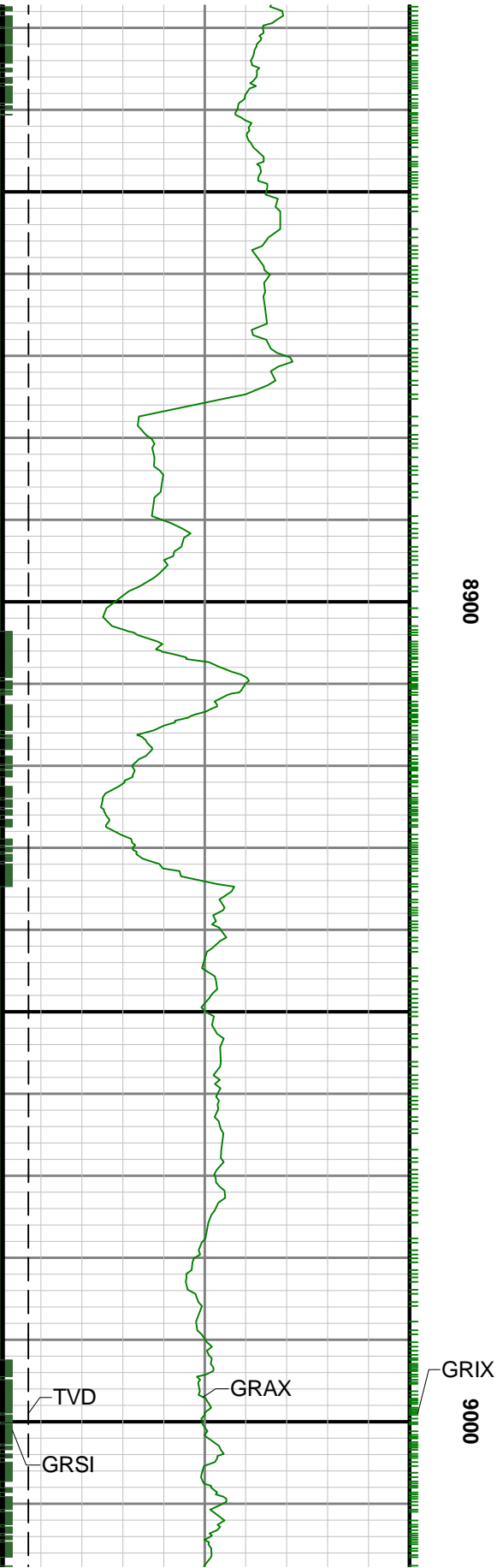


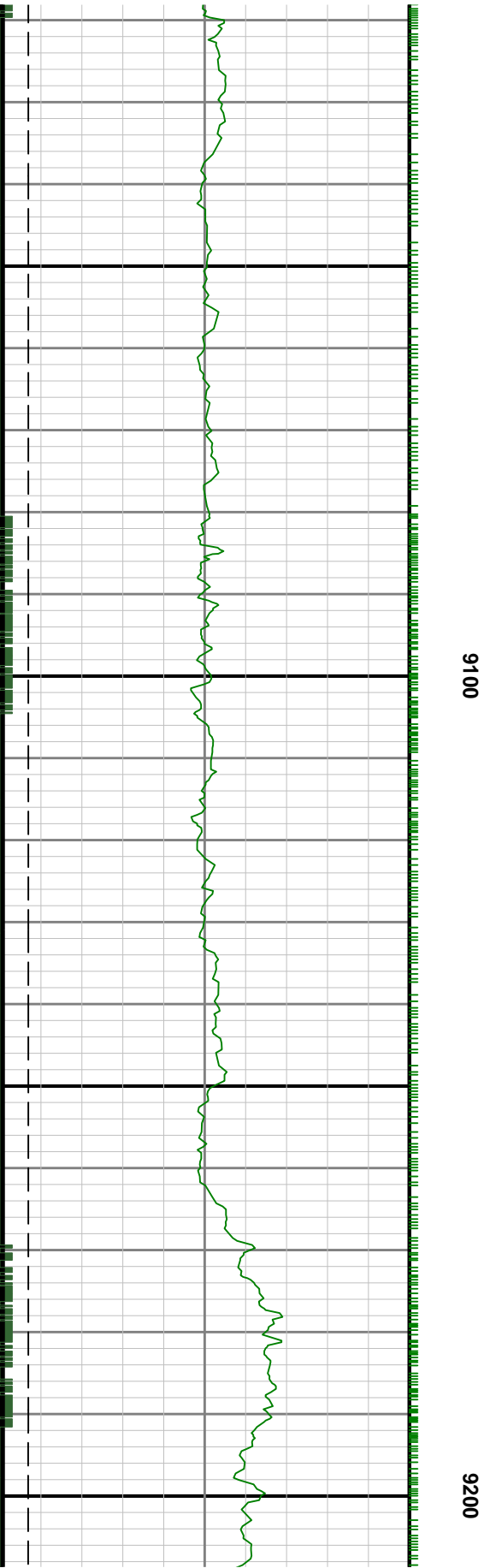
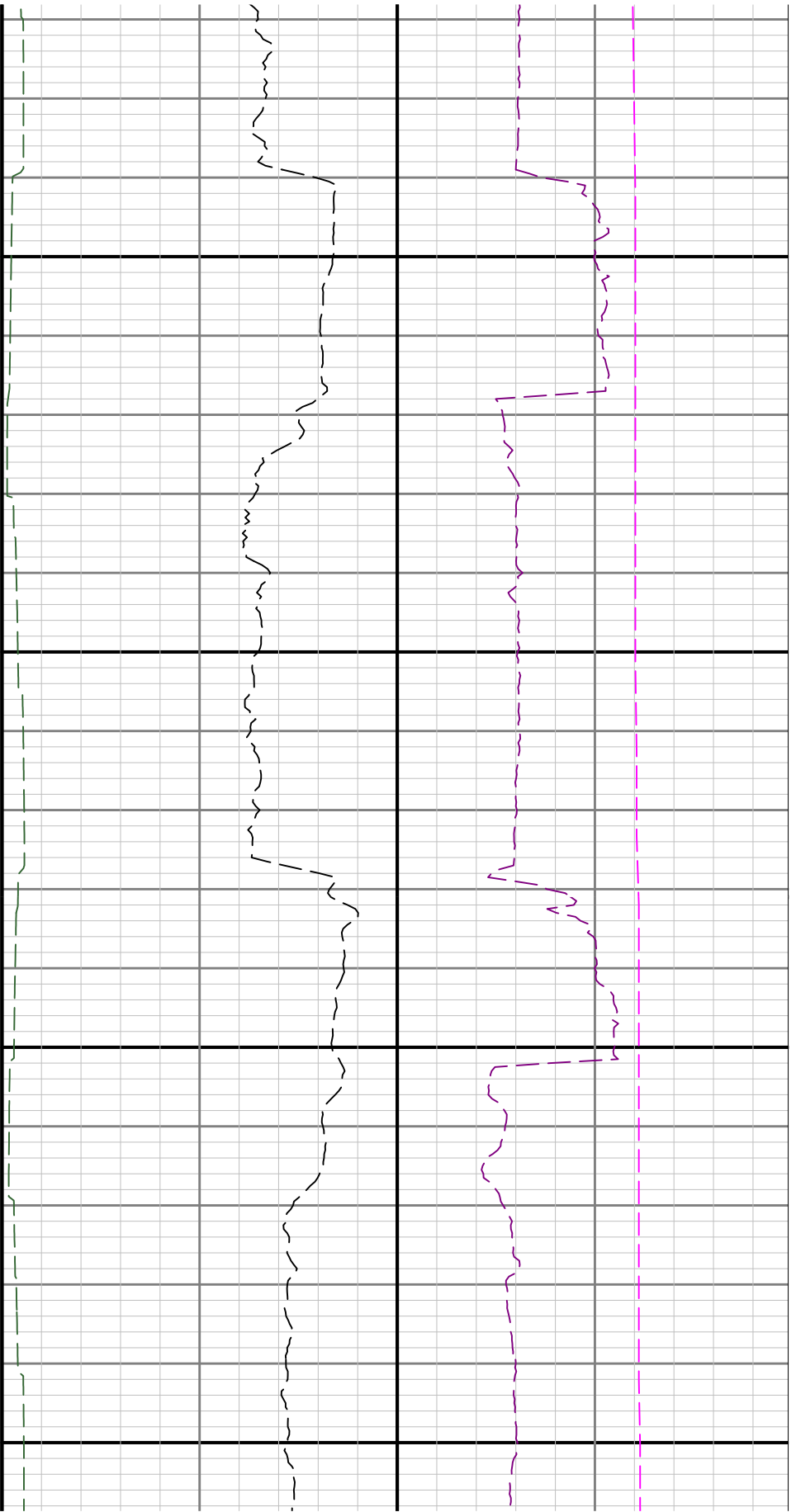


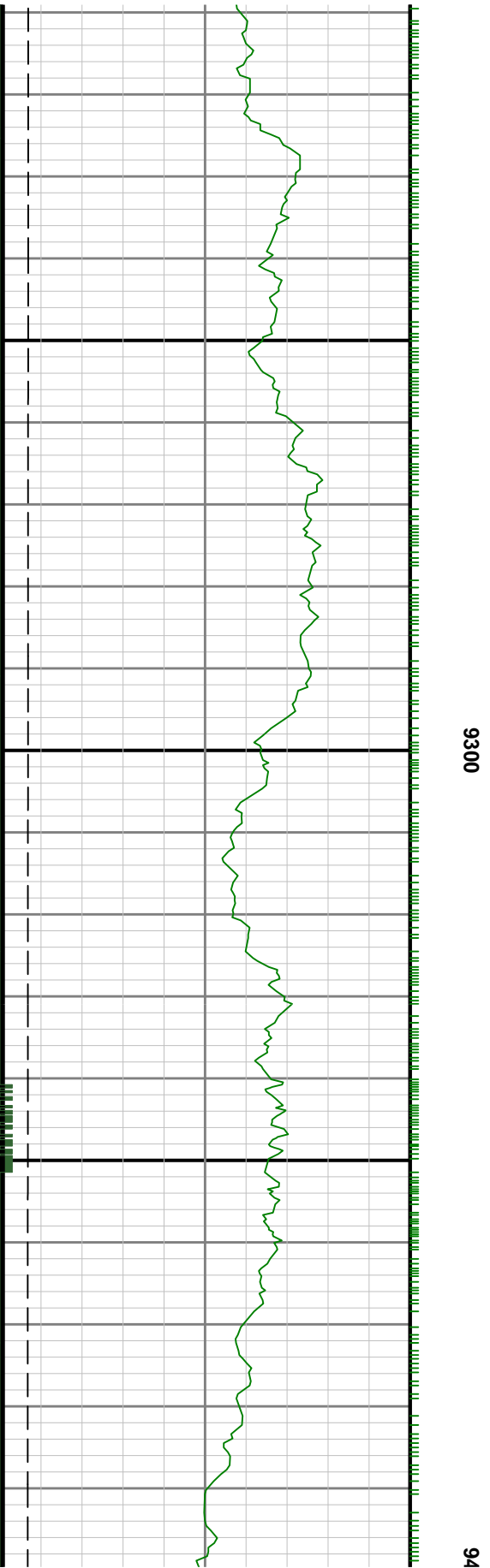
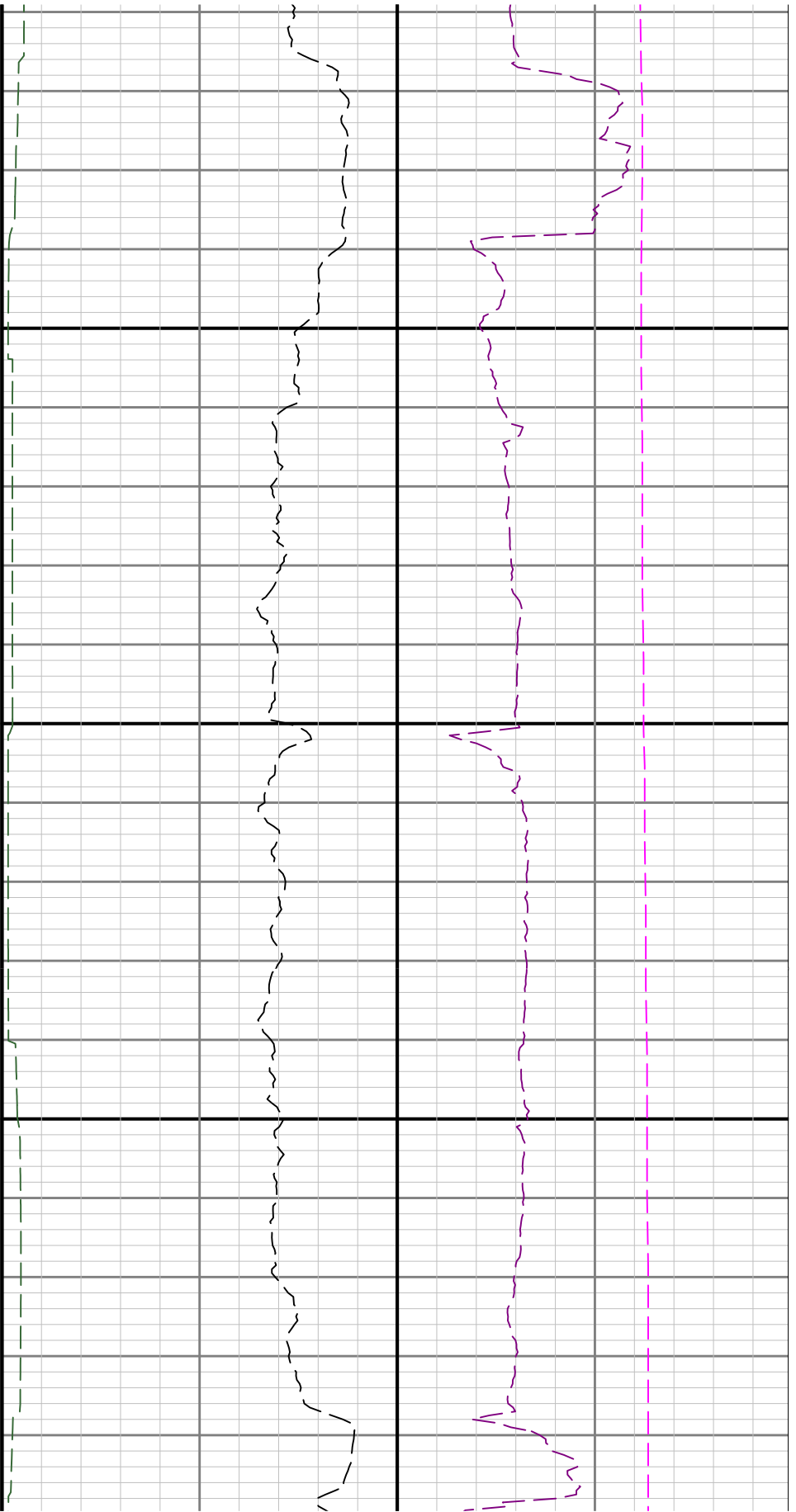
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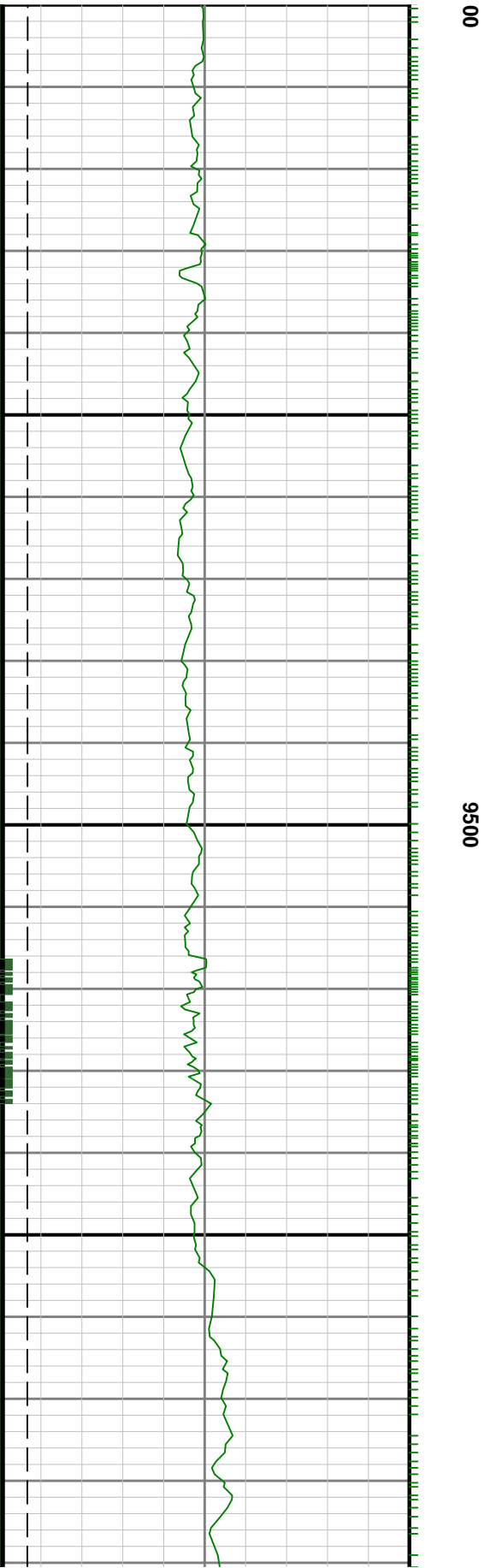
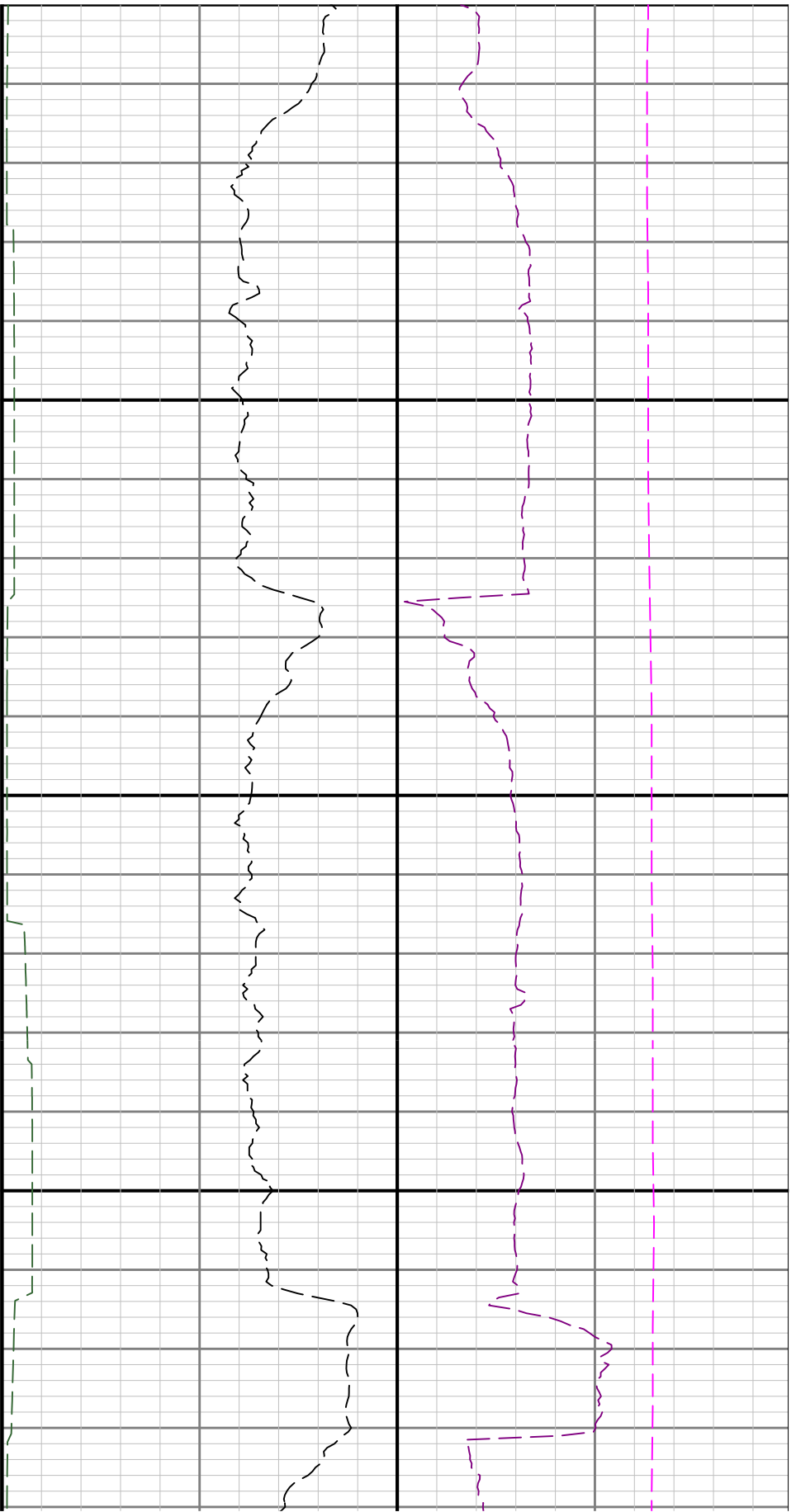
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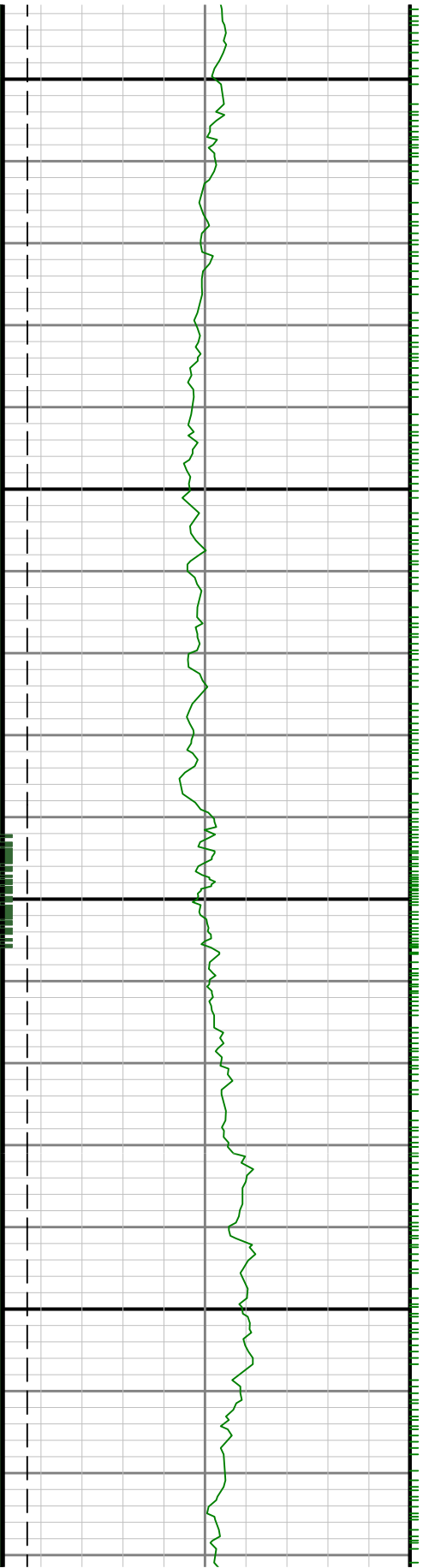






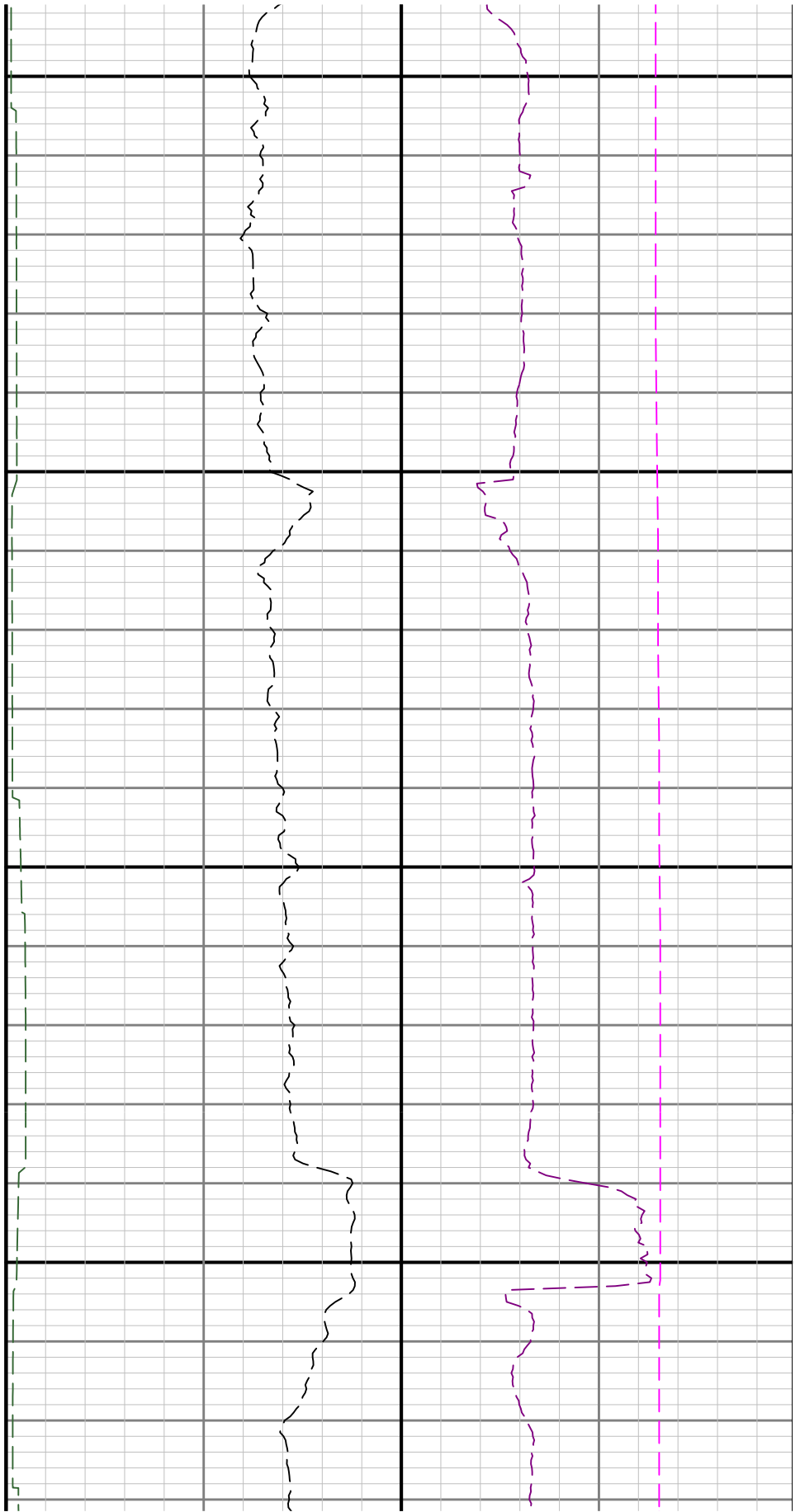


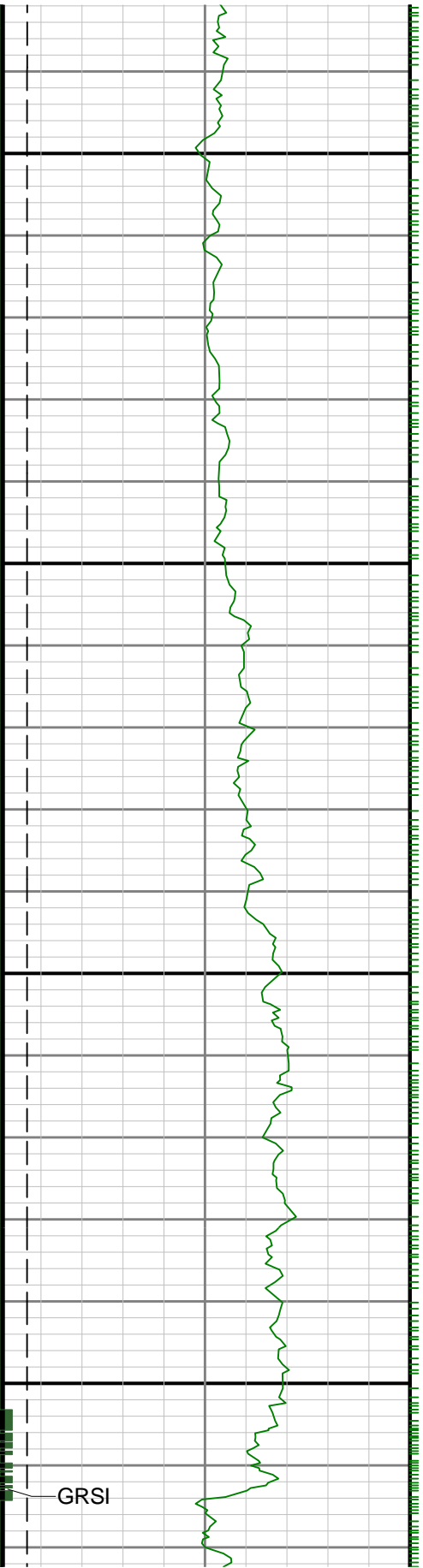




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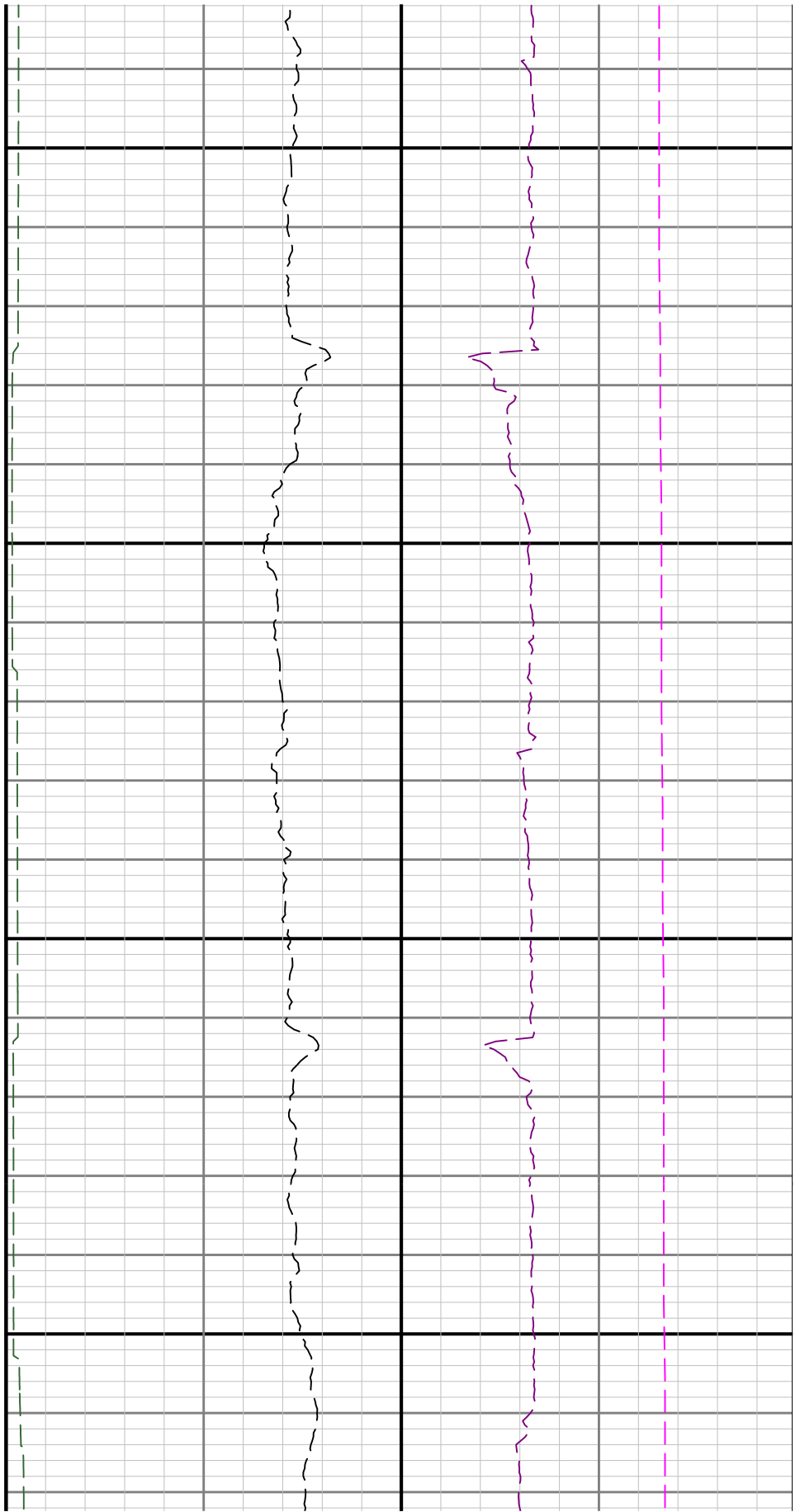
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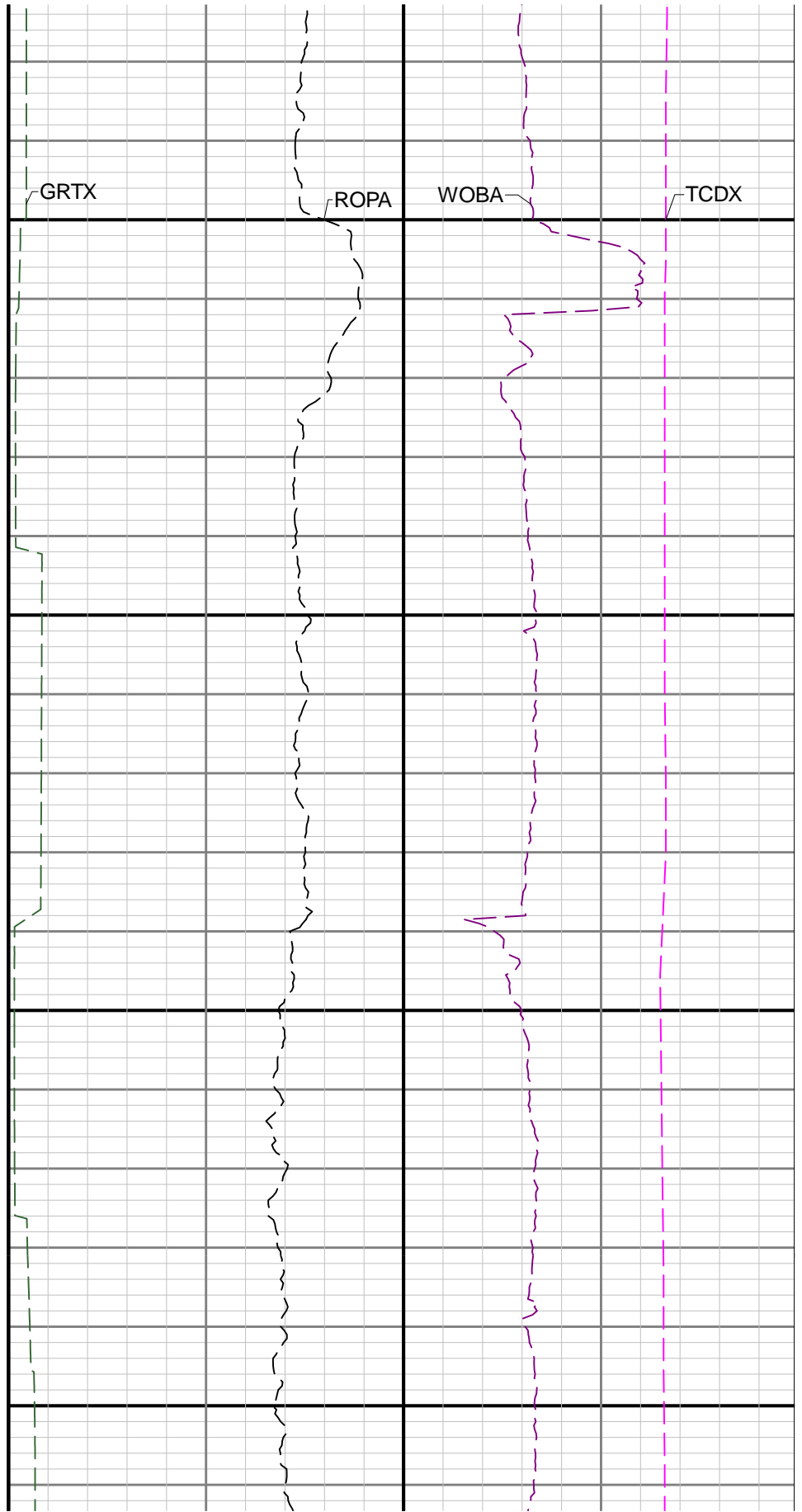
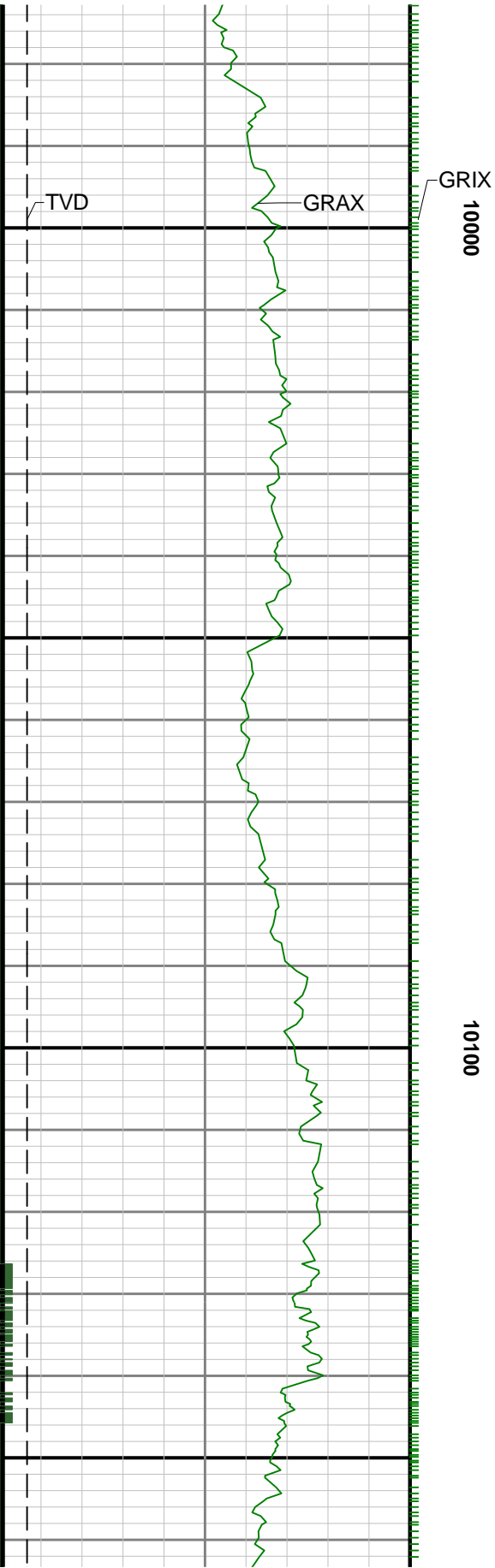


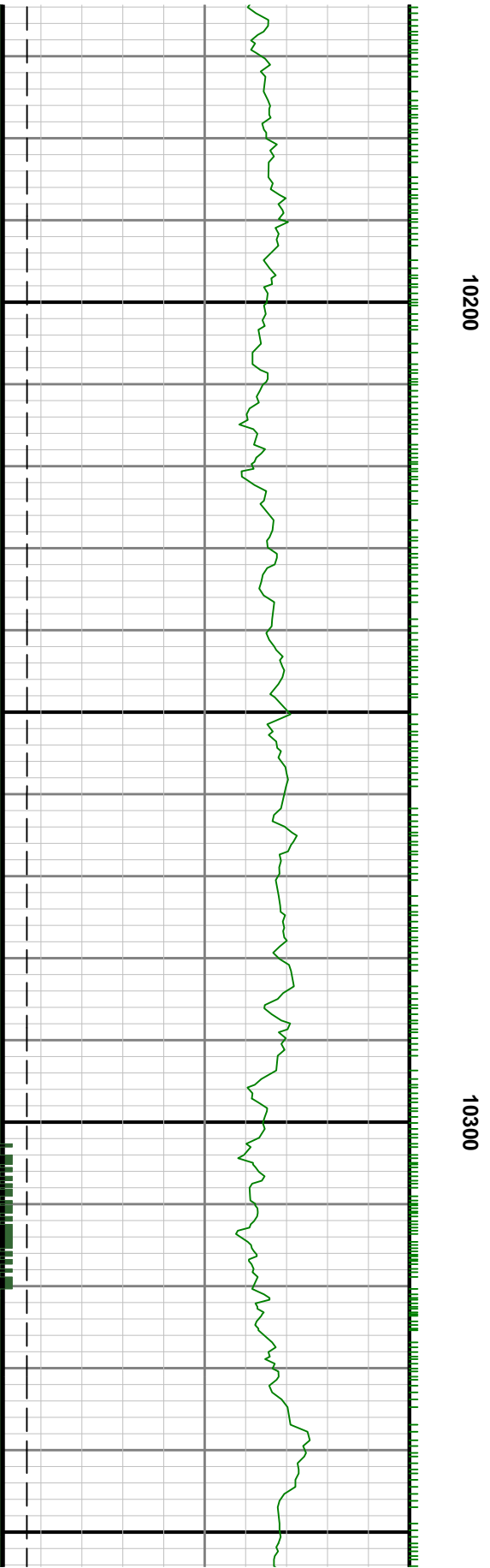
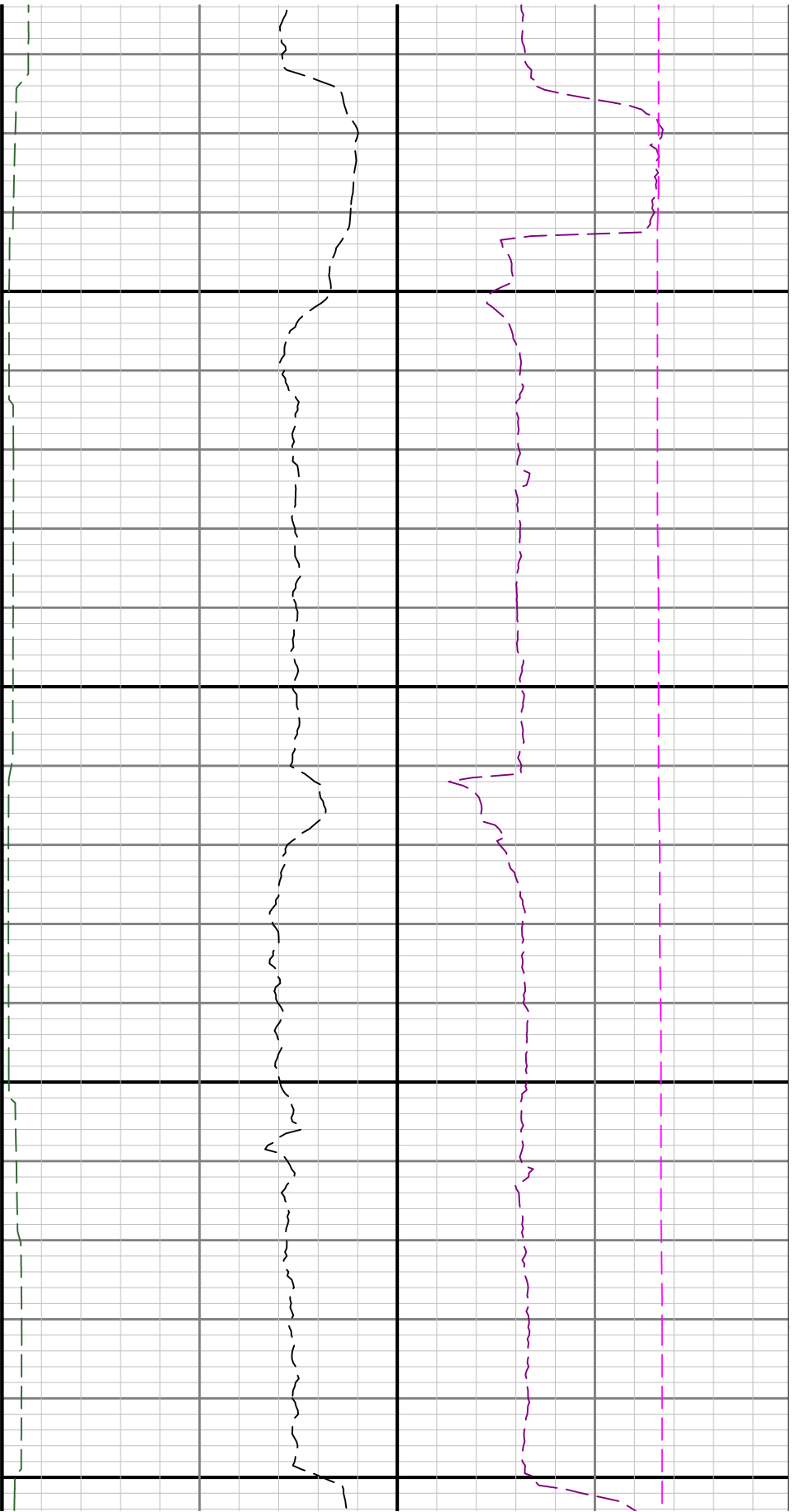


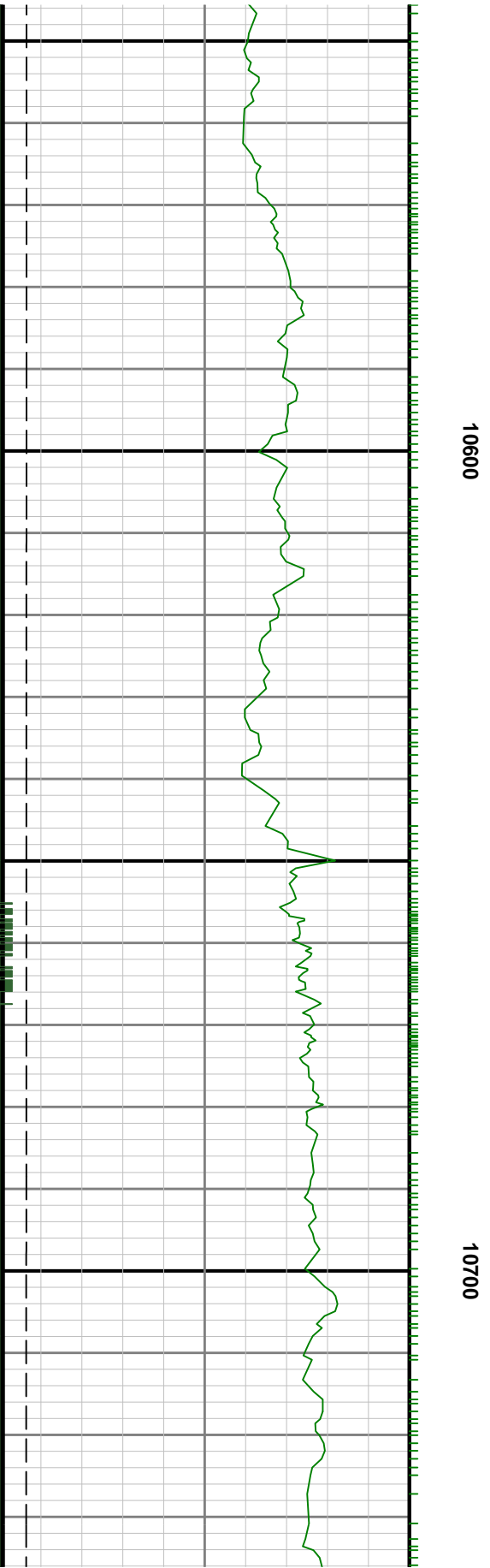
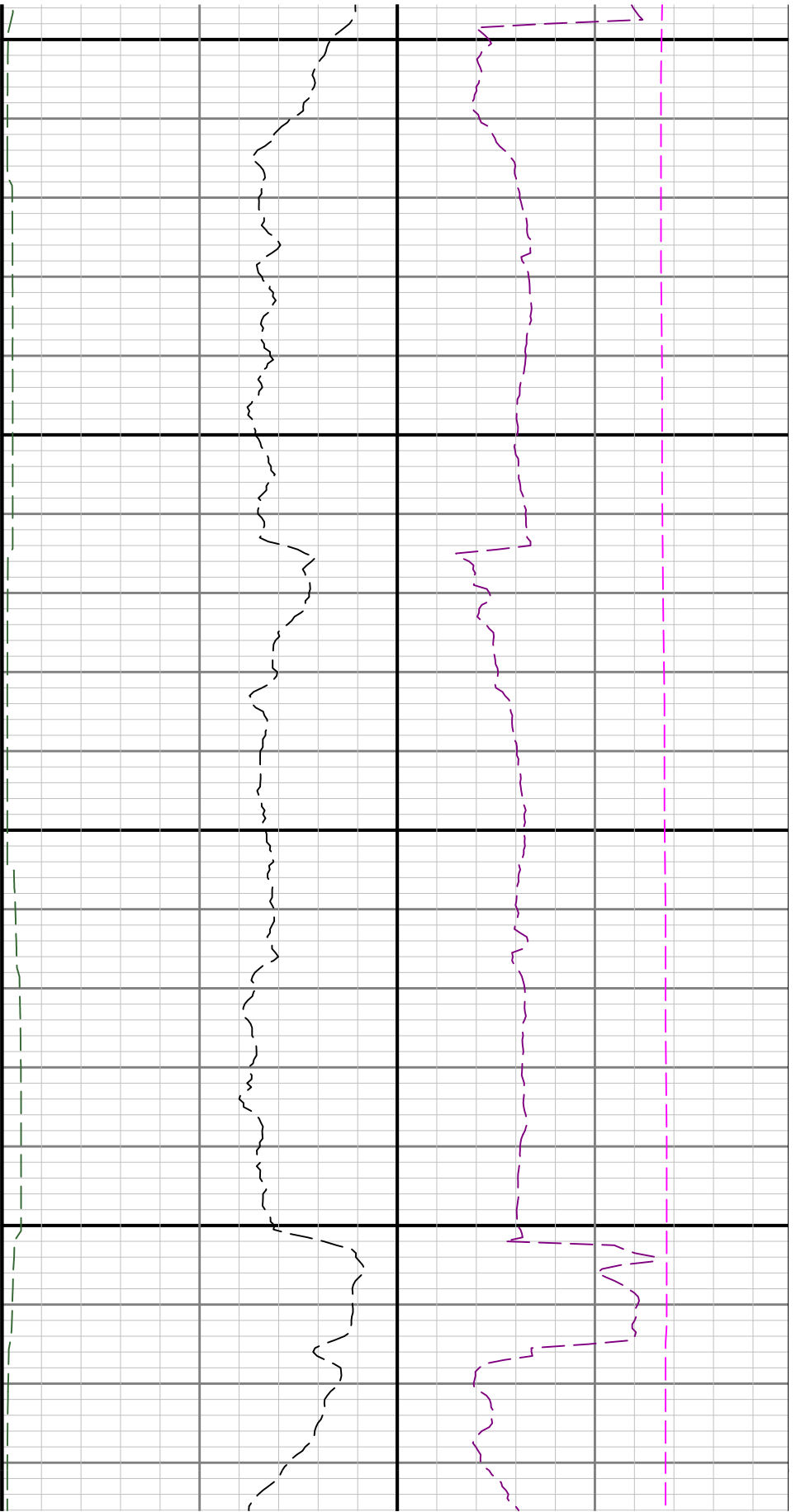
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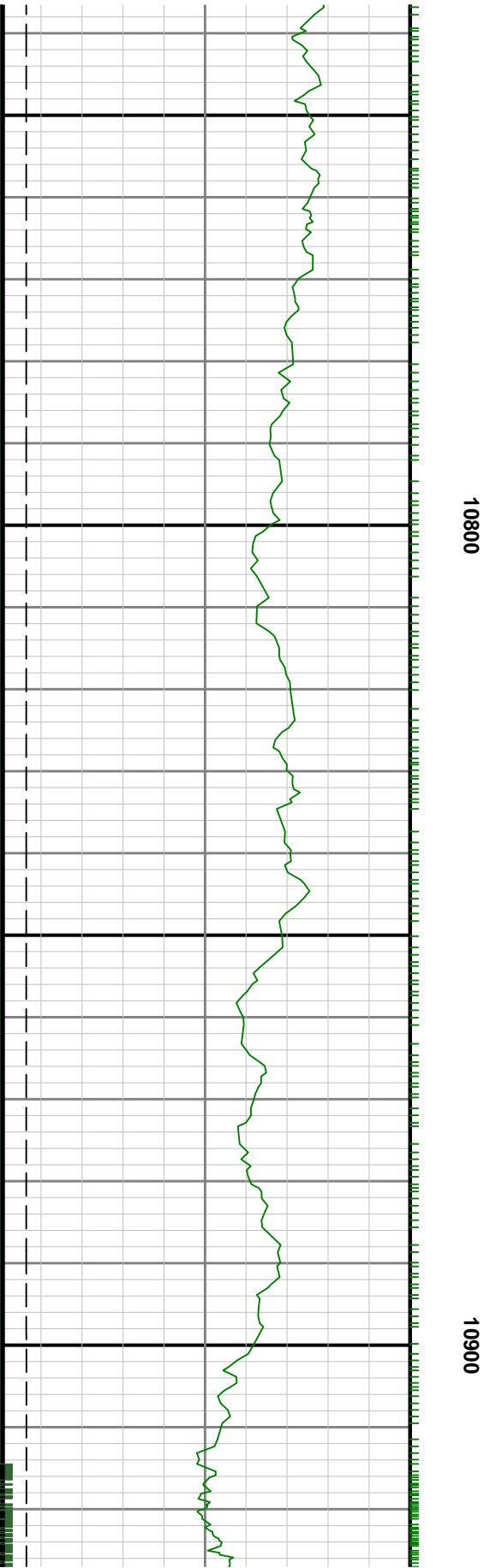
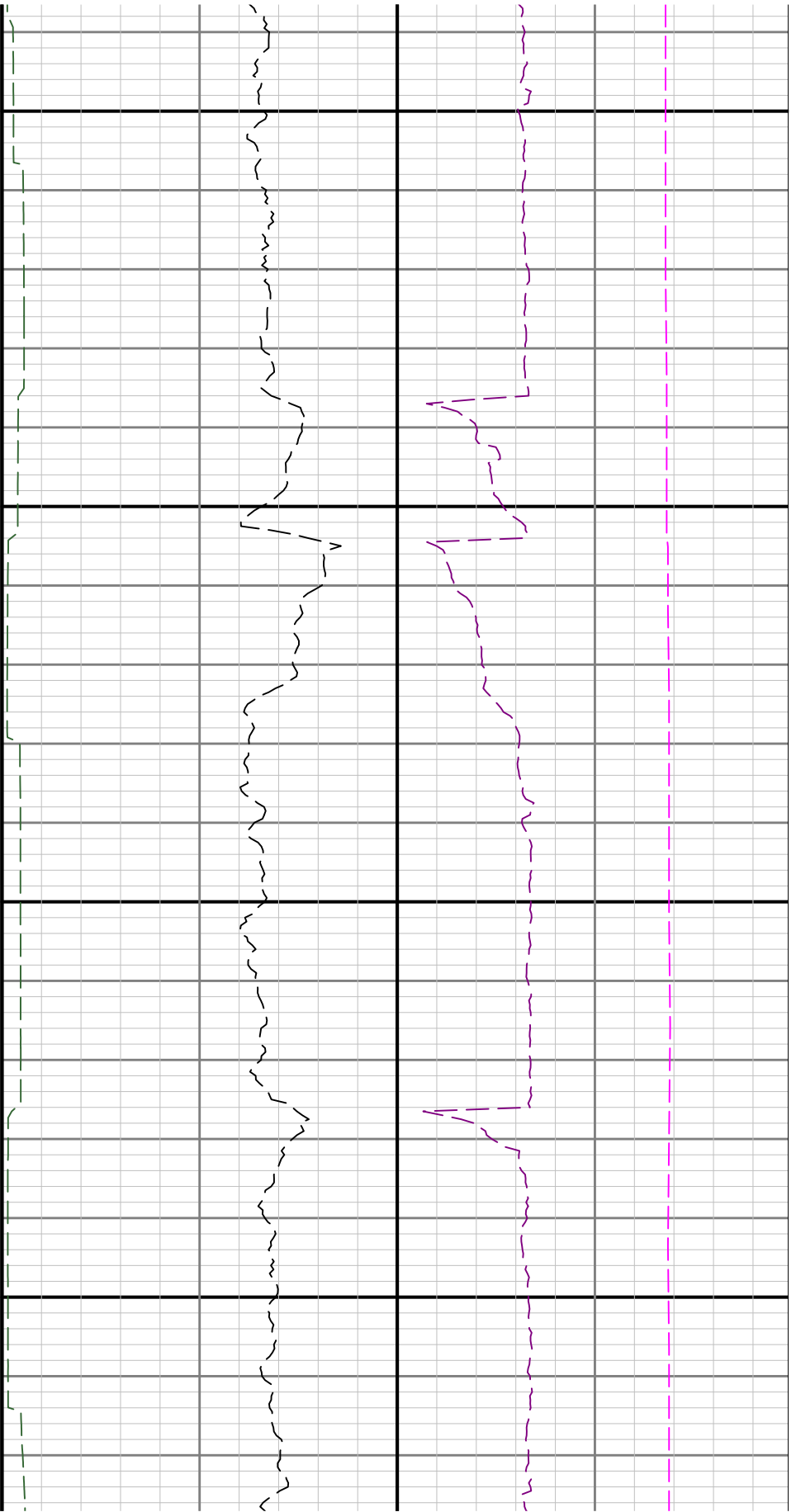
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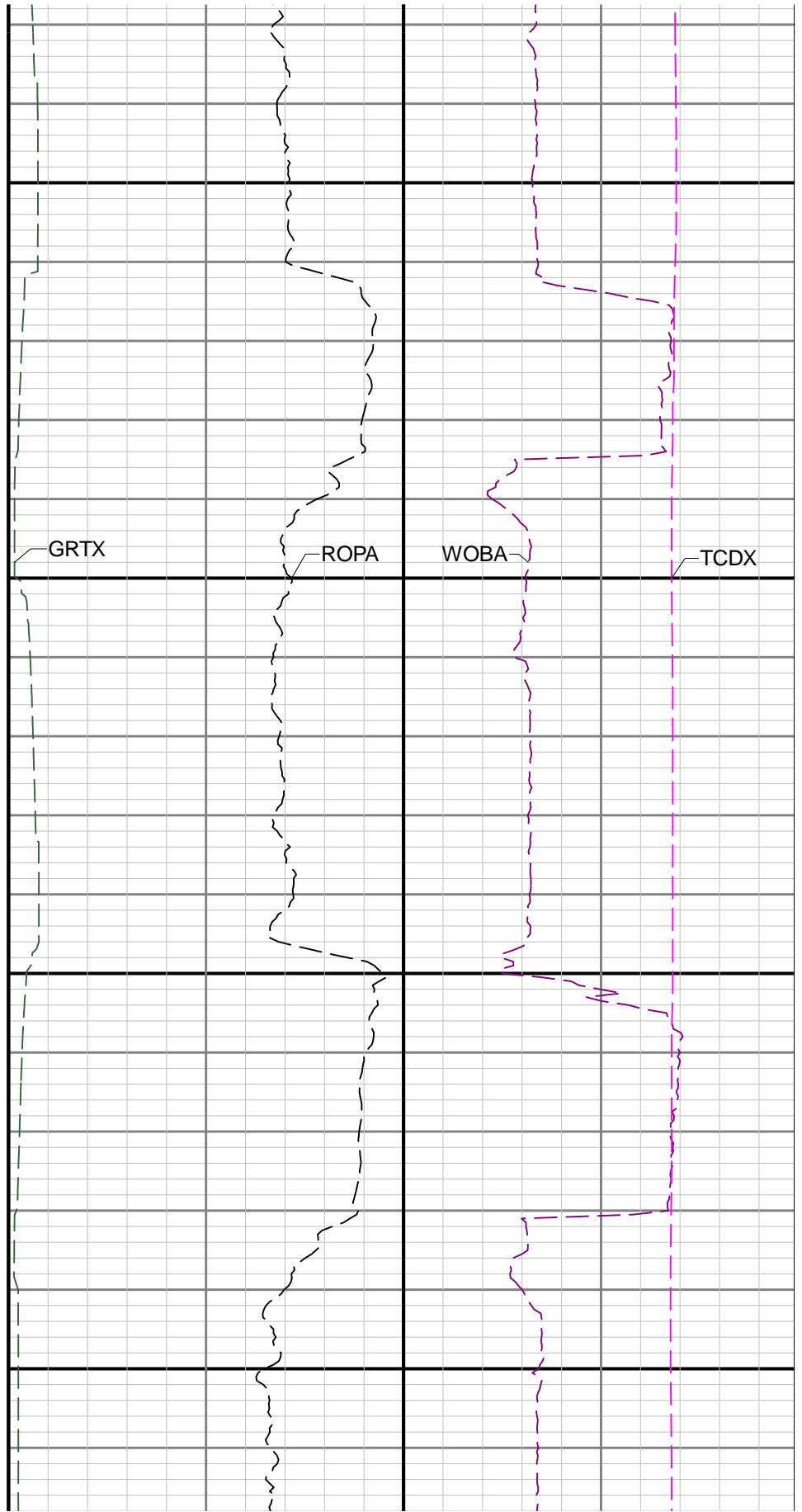
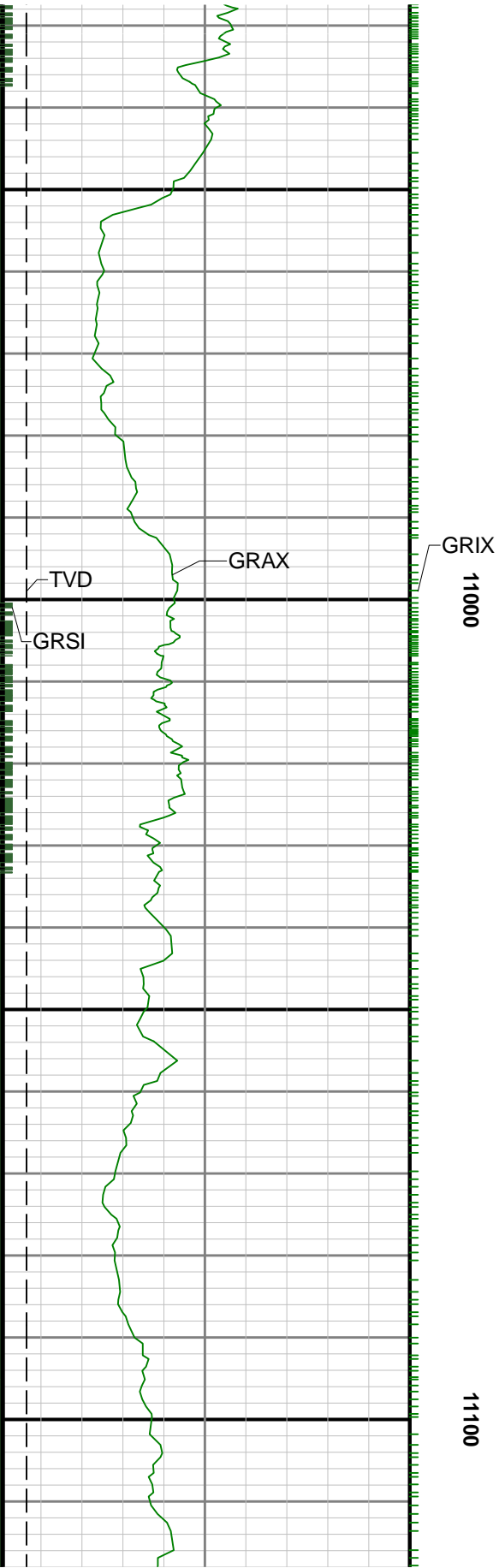


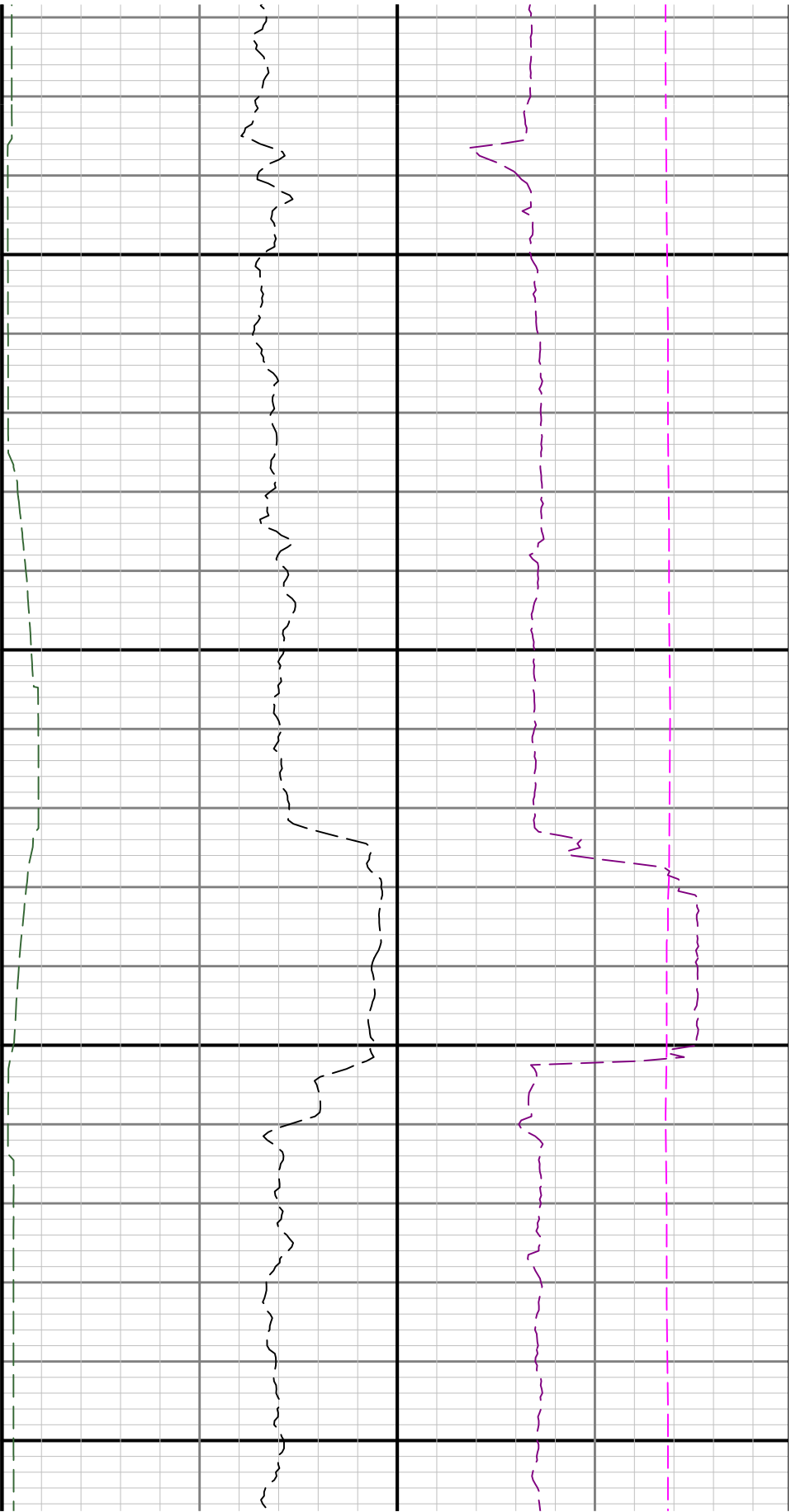






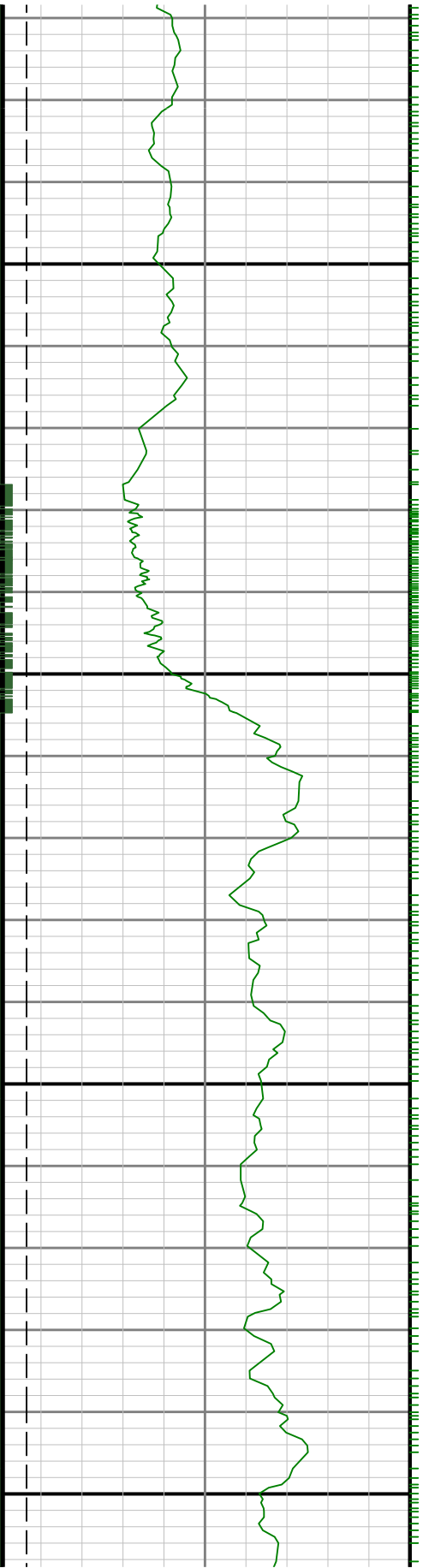


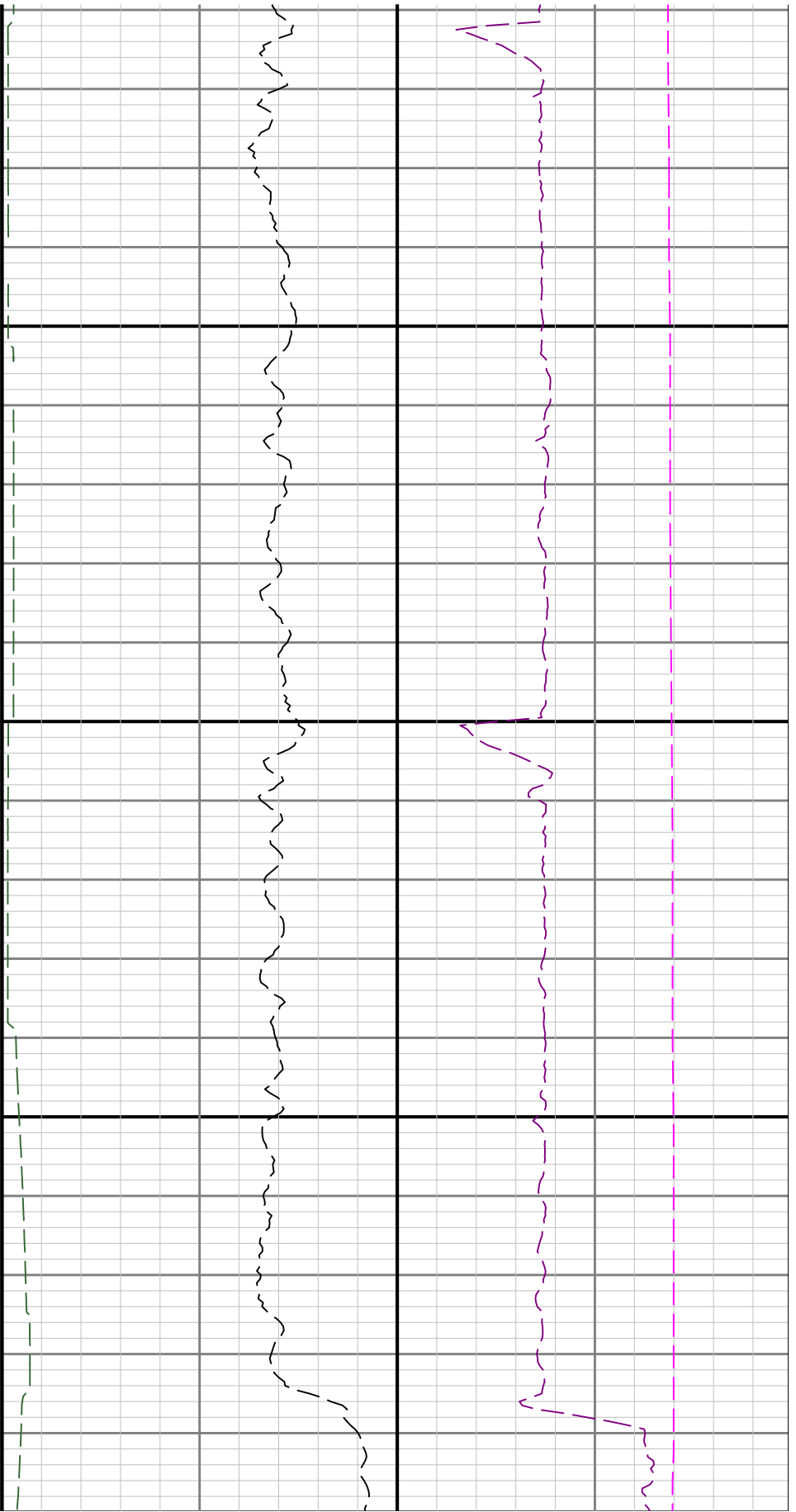




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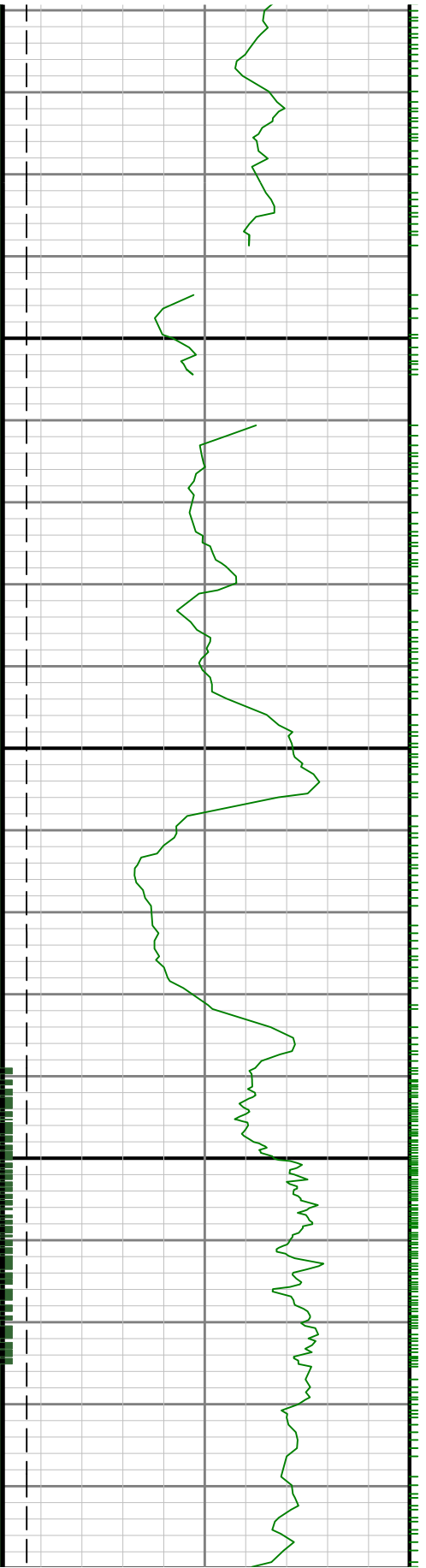
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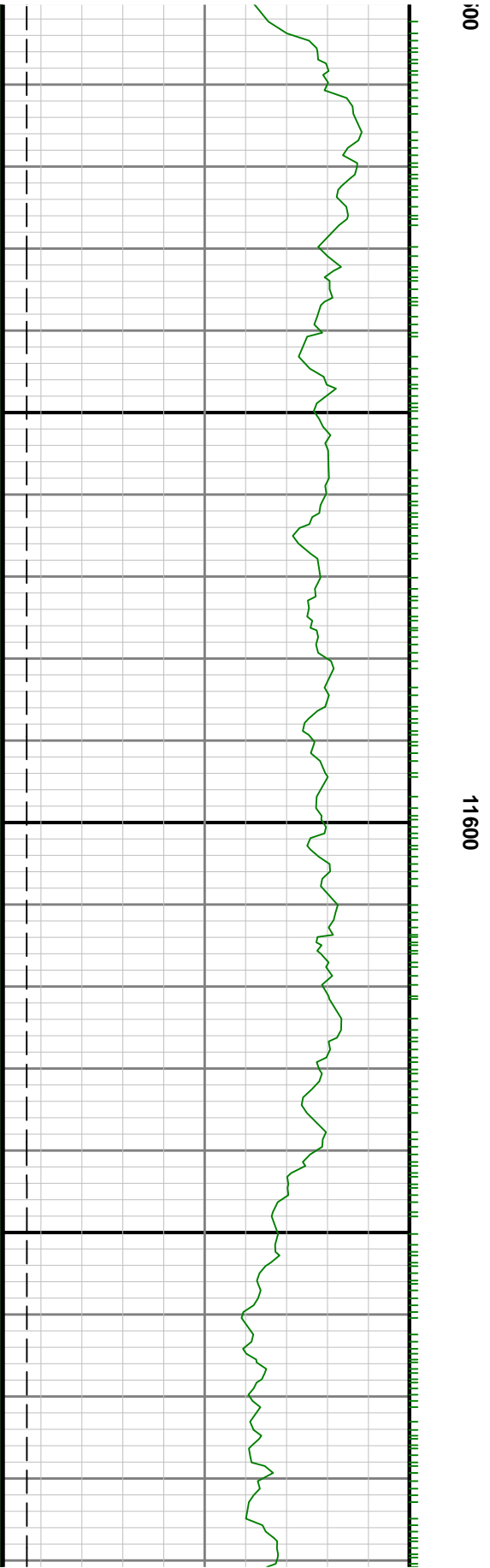
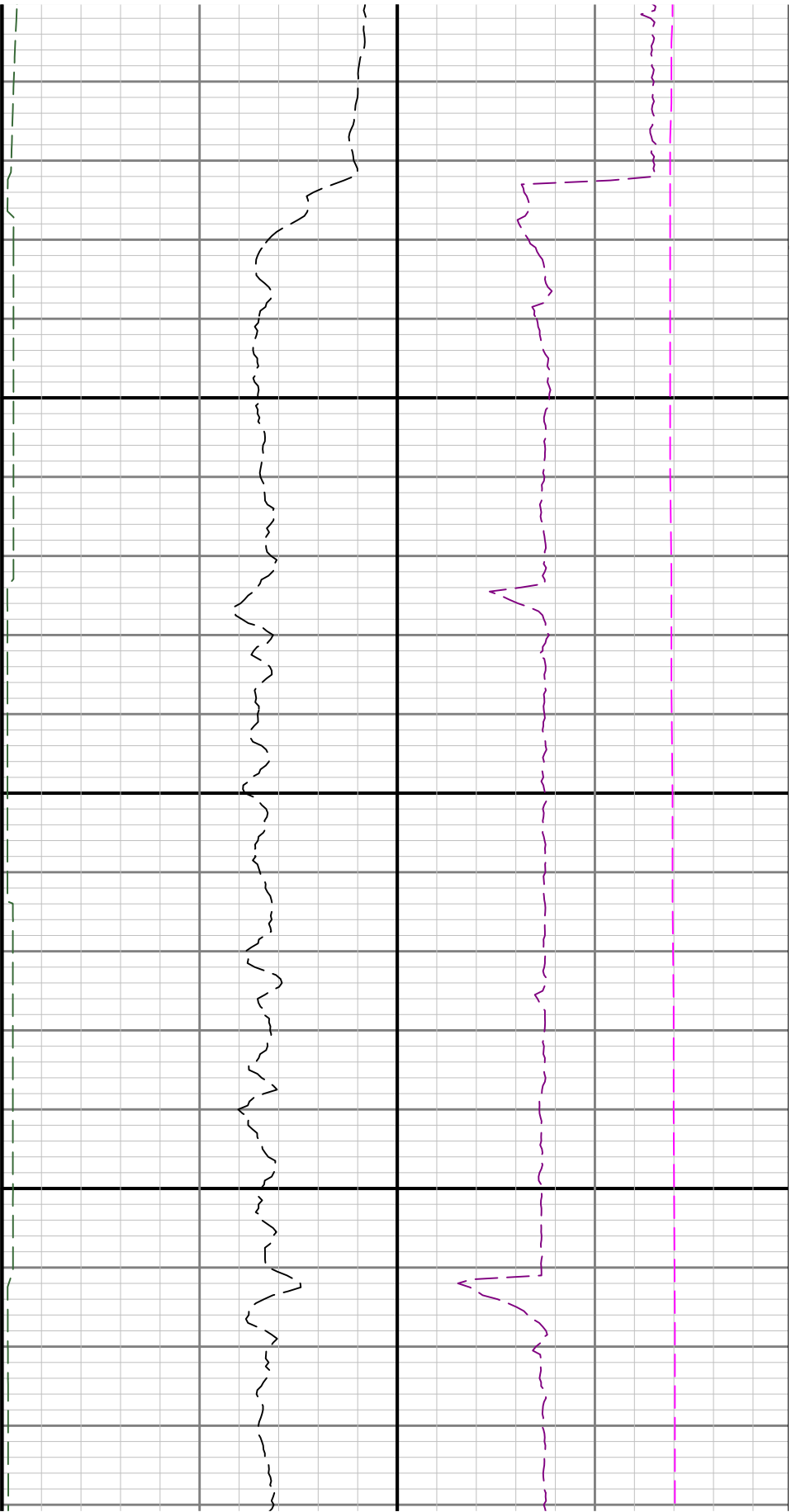


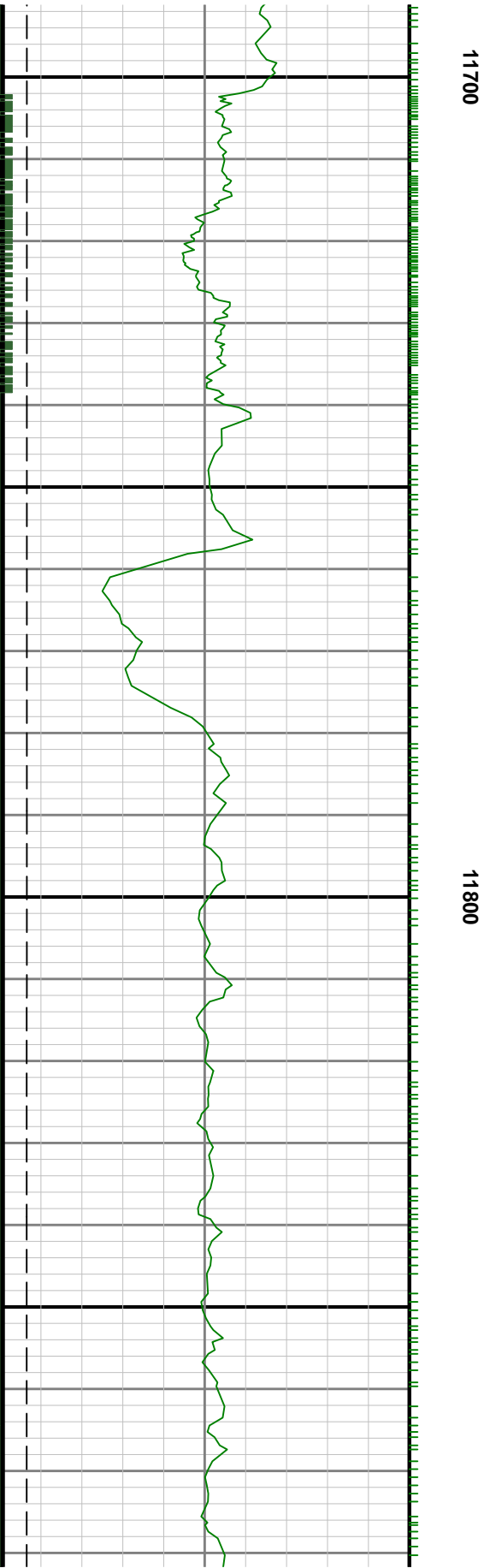
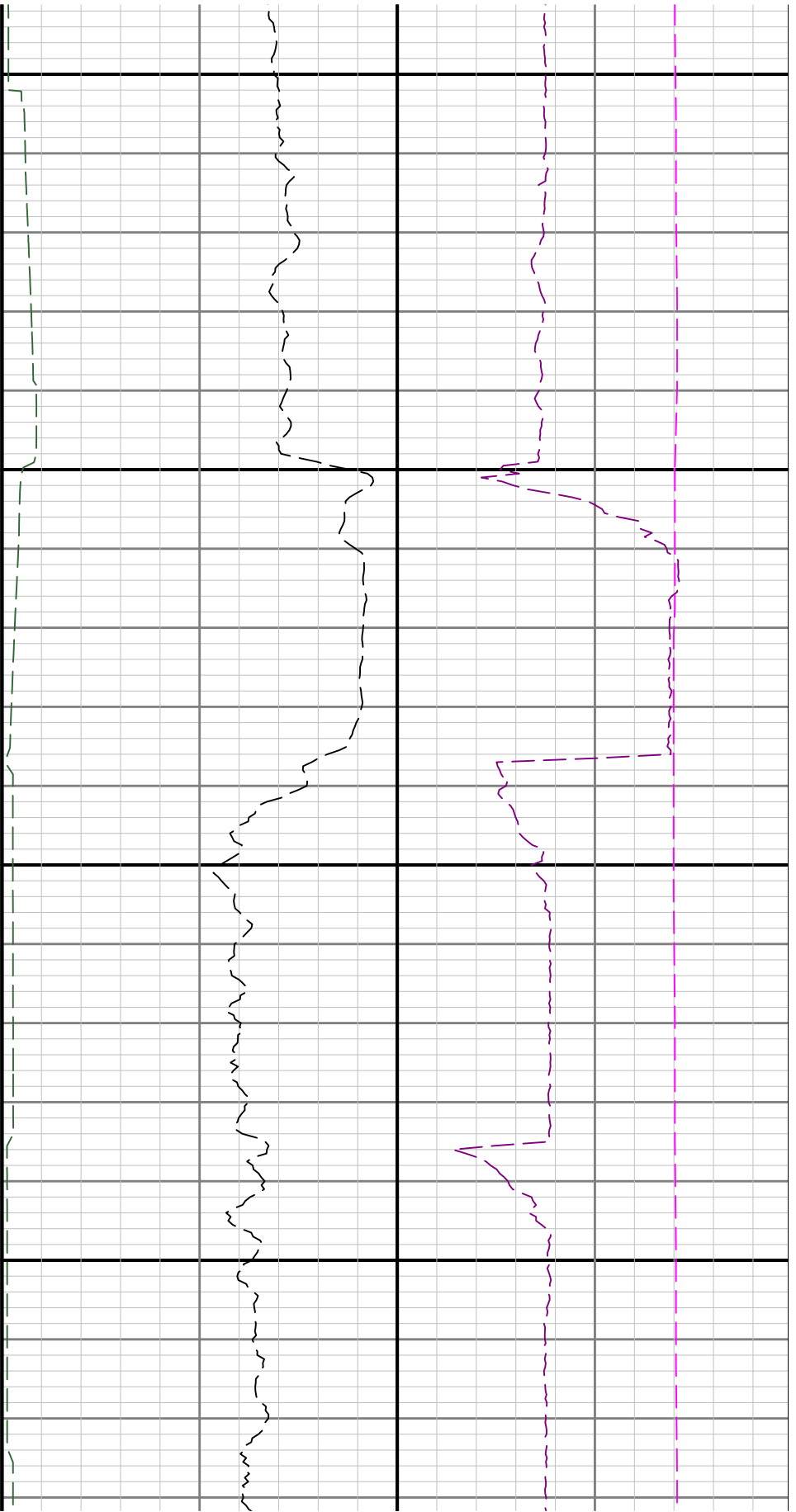


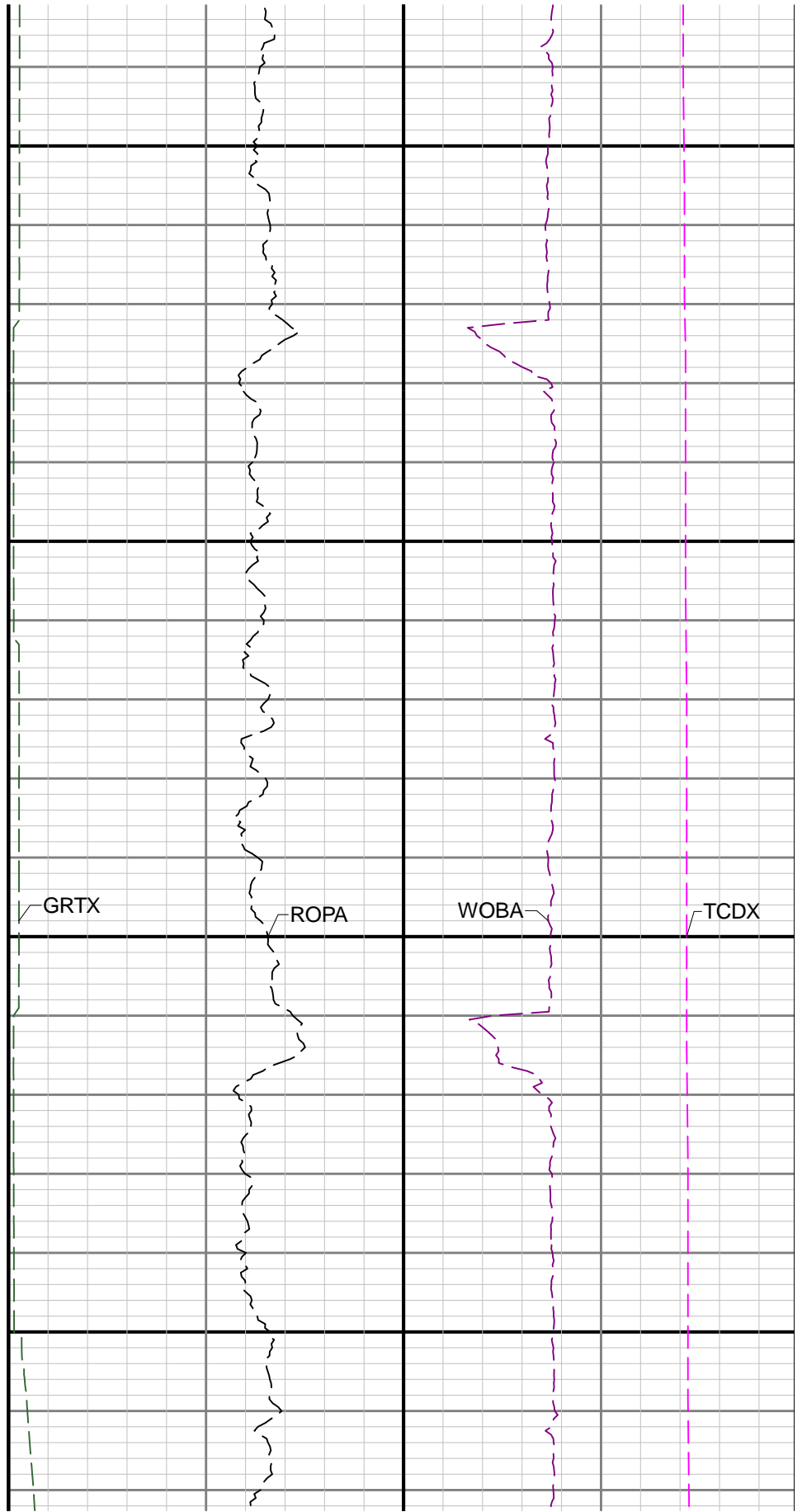
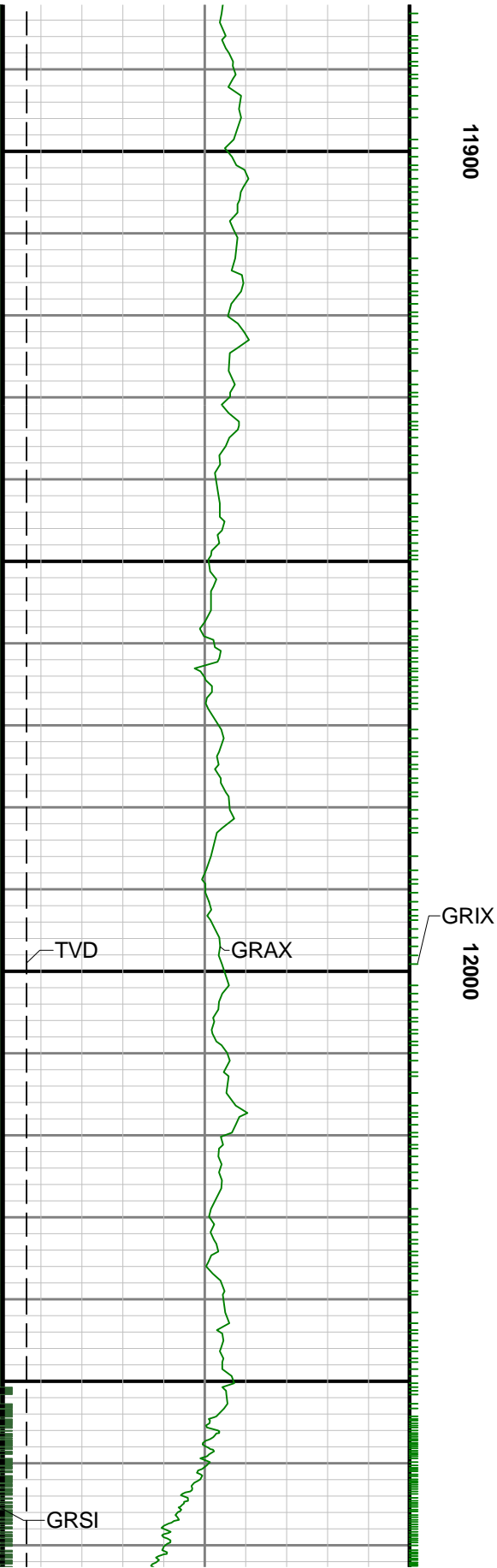
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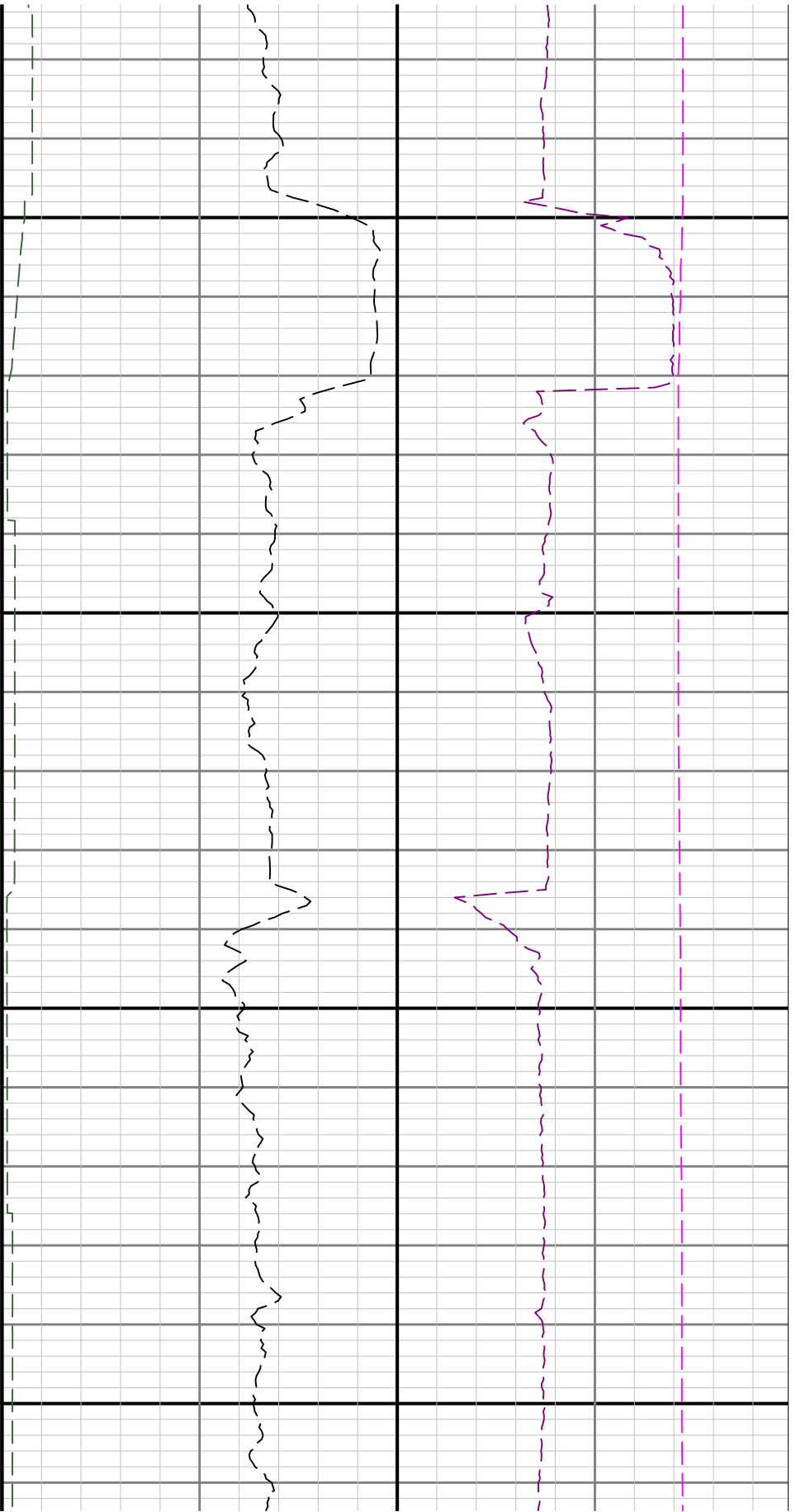
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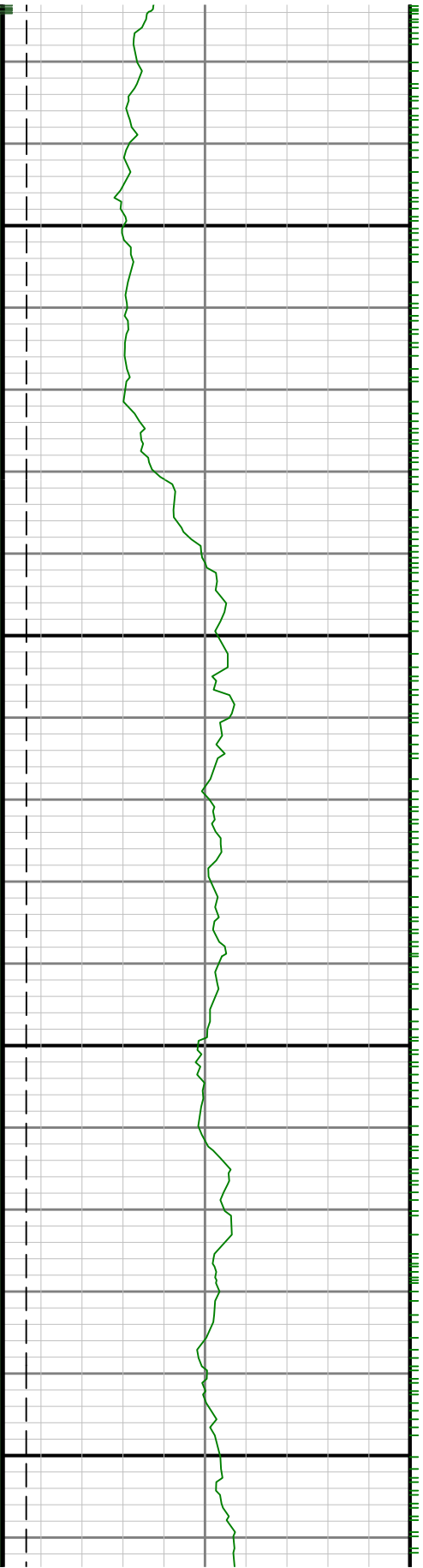


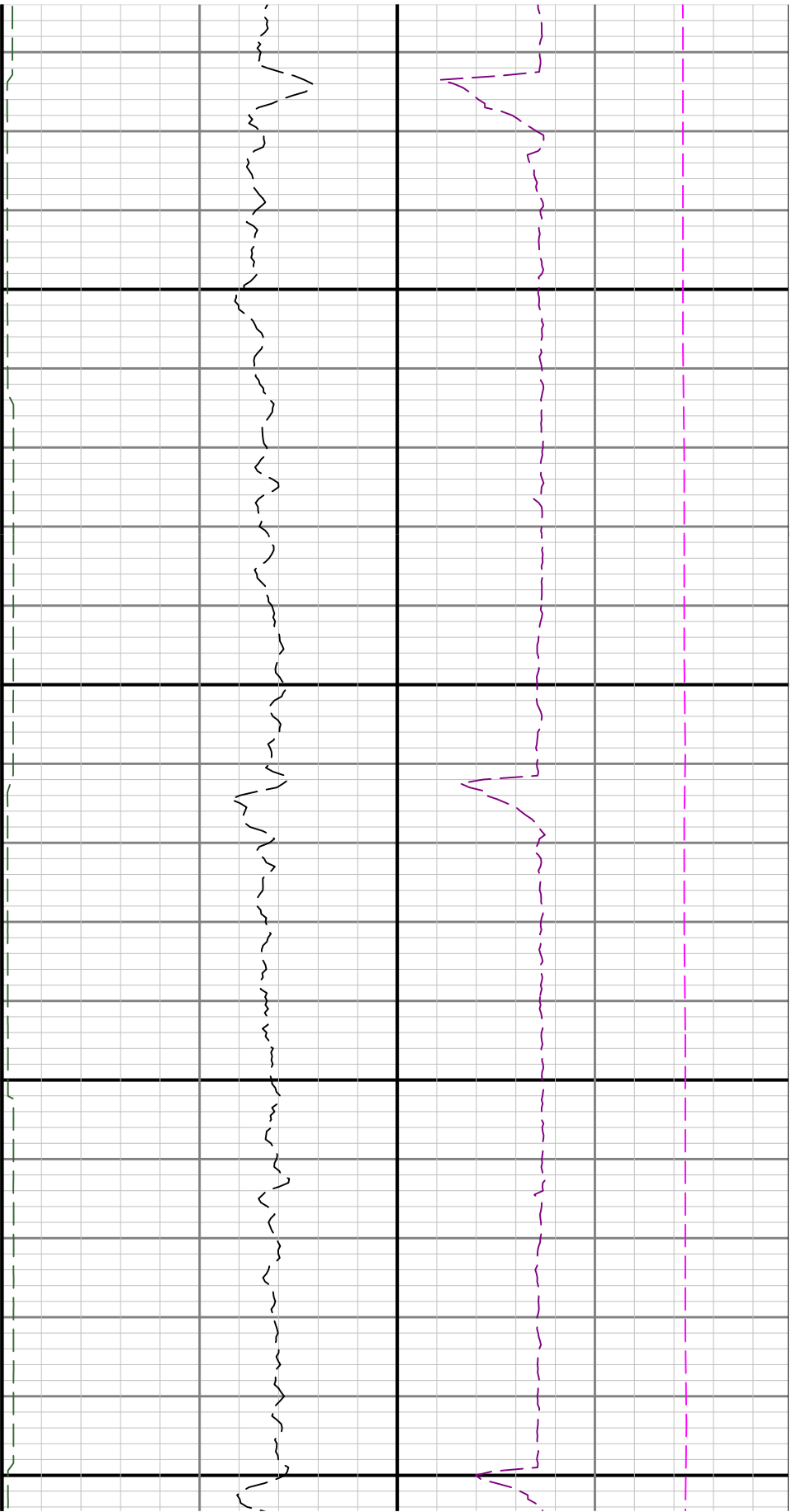




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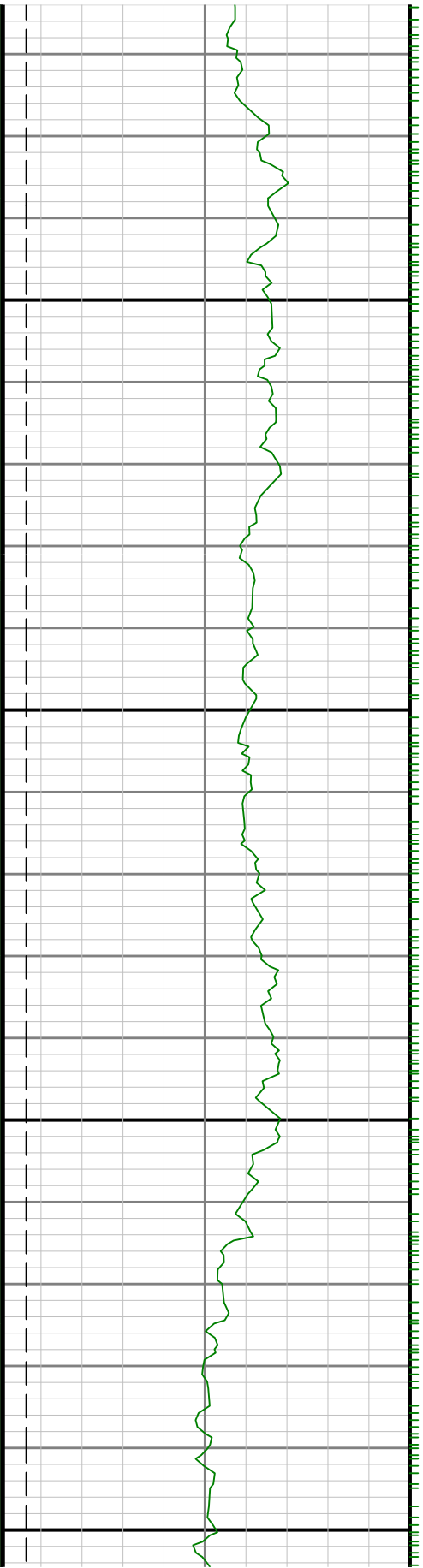
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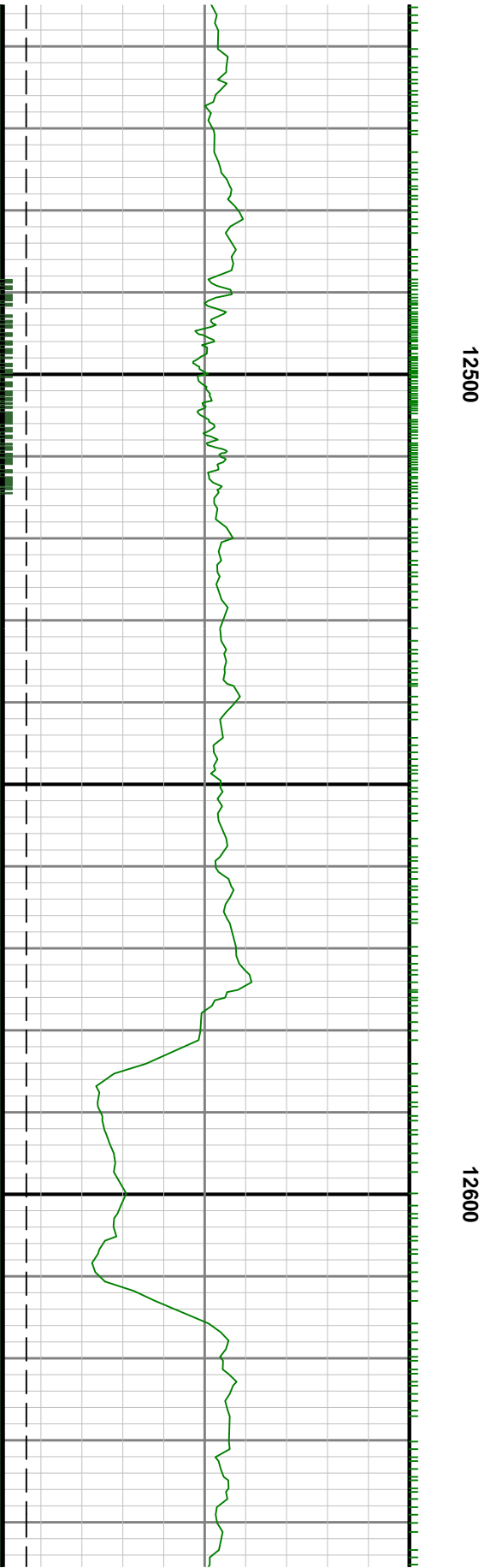
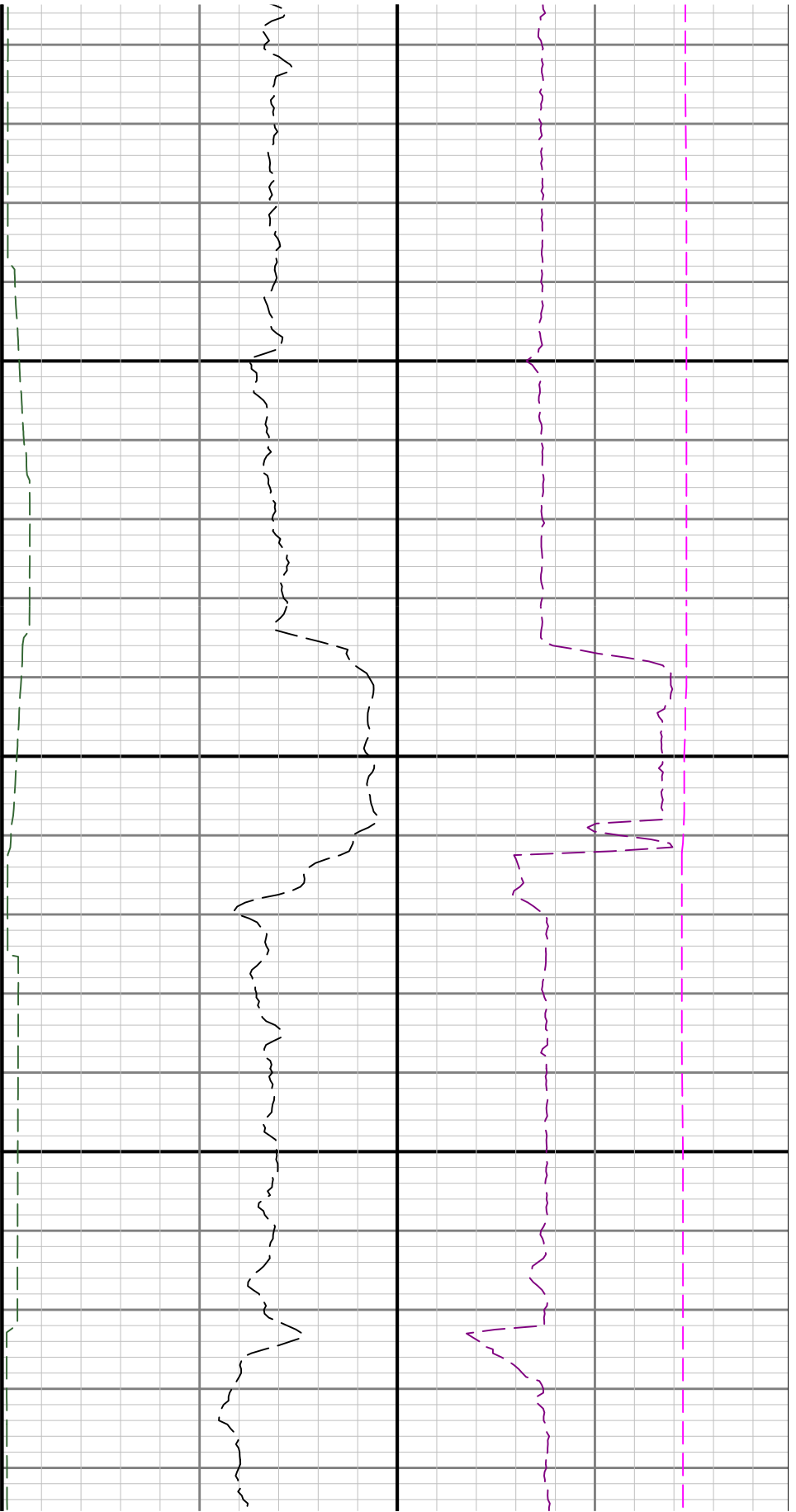


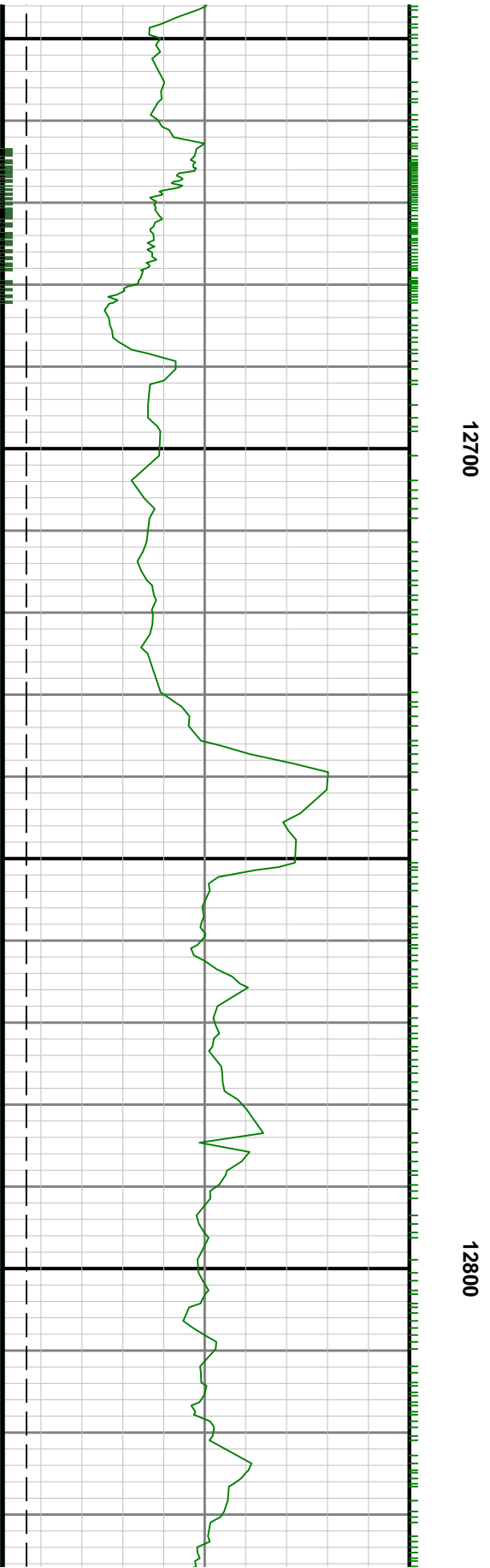
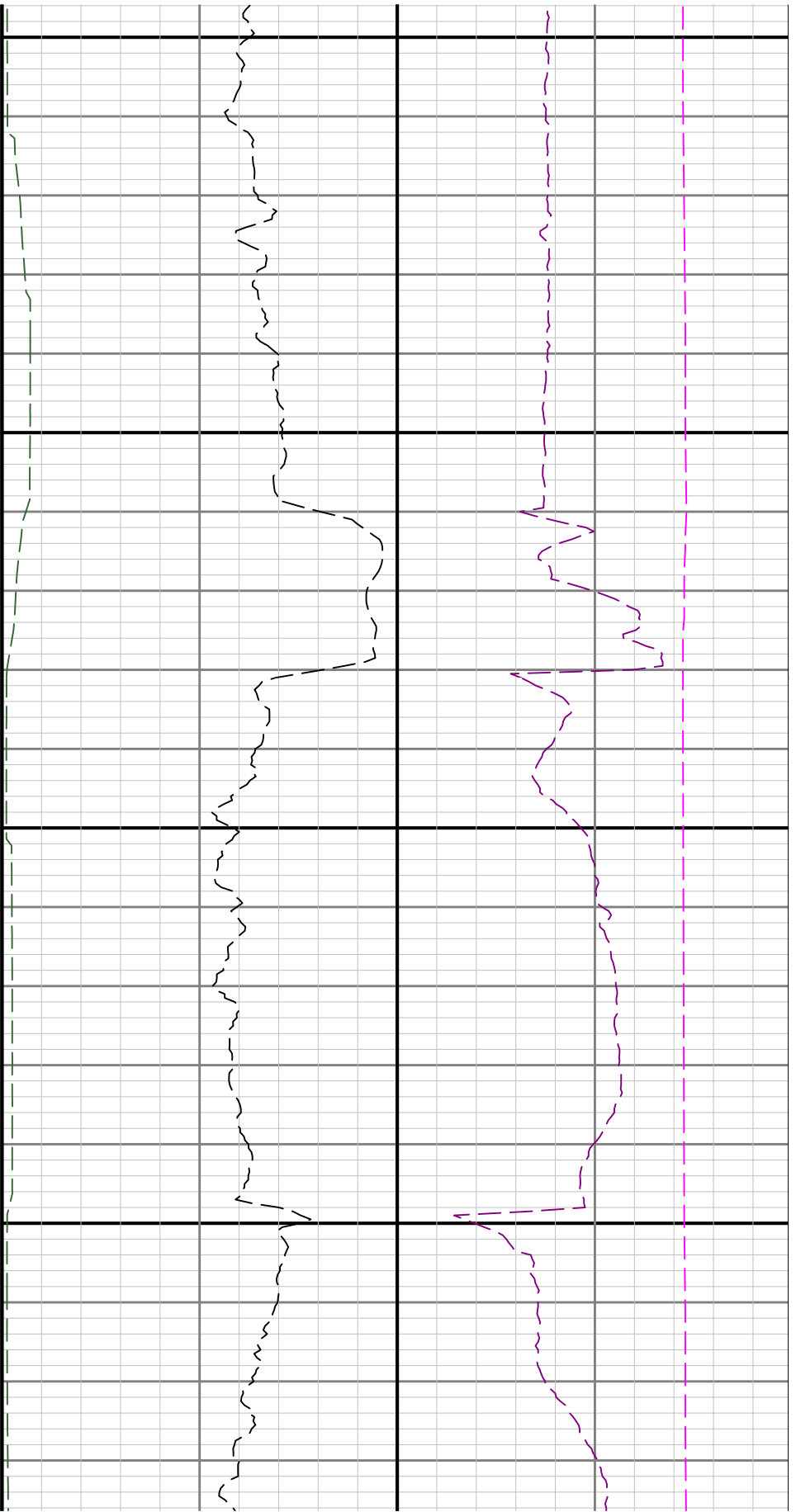


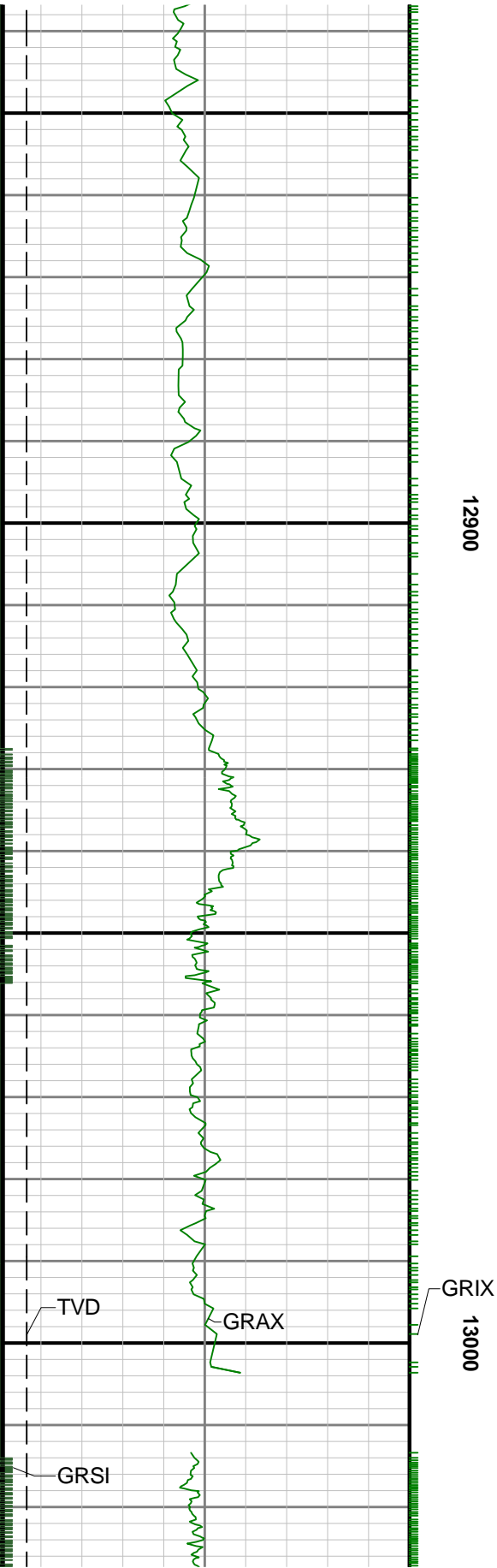
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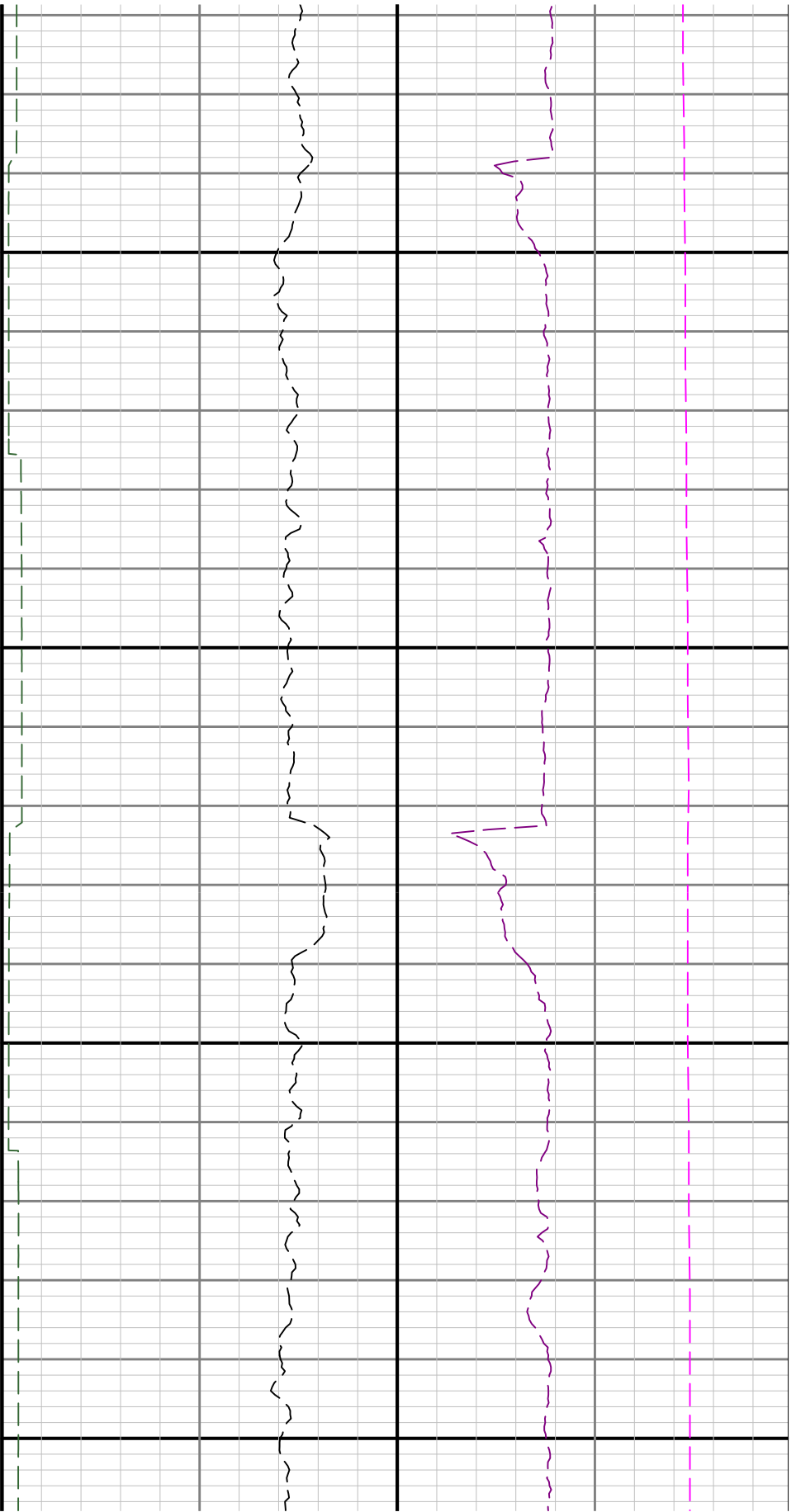
12400











13300

13400

