



Realtime Logs

Natural Formation Evaluation
Gamma Ray

Scale: Company: Kerr-McGee

1:240

Well: Badding 2N-26HZ

MEASURED DEPTH

Field: Weld County

County: Weld County State: Colorado

Status:

Final Print

Surface Location:

Latitude: 40° 6' 10.753" N

Longitude: 104° 44' 30.660" W

Other Services:

API Number: 05-123-384070000

Section:26

TWN: 2N Range:66W

Directional

Permanent Datum (P.D.): Ground Level

Elevation: 5129.00 ft.

Elevations:

Log Measured From:

Kelly Bushing

17.00 ft.

Above P.D.

KB:

DF:

GL:

Depth Reference:

Driller's Depth

GL:

5129.00 ft.
5129.00 ft.
5112.00 ft.

Interval Logged

Dates

Magnetic Field Reference

Top: 6881.0 ft. Date From: 11/Feb/14 Date To: 18/Feb/14 Dip Angle: 66.83 ° Azi Reference North: True

Bottom: xxxx Spud Date: 10/Feb/14 Field Strength: 52899.0 nT North Correction: 8.34 °

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
13,500 in.	Surface	1331.0 ft.	9,625 in.	36.00 lb/ft	Surface	1273.0 ft.
8,750 in.	1331.0 ft.	7836.0 ft.	7,000 in.	26.00 lb/ft	Surface	7819.0 ft.
6,125 in.	7836.0 ft.	xxxxx				

Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Based Mud	Surface	xxxxx	13,500 in.	Surface	0.0 ° / 0.0 °	0.2 ° / 84.1 °
			8,500 in.	Vertical/Curve	0.2 / 84.1 °	86.2 ° / 1.3 °
			6,123 in.	Lateral	86.2 ° / 1.3 °	xxx / xxx
					/	/
					/	/
					/	/
					/	/

Acquisition System Software Version

Other

Advantage	2.20U4	Rig: / Contractor:	Xtreme 8	/	Anadarko
PATS	6.4.1.34	Job No:	6053320		
		District: / Unit:	Rocky Mountain	/	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	Bottom	From	To	Start	End	
							(m.)	(m.)	(m.)	(m.)			
3	3	4	8.750	PDC		Mud Motor	6881.0	7793.0	6881.0	7837.0	12/Feb/2014 17:20	15/Feb/2014 12:40	34
4	4	4	6.125	PDC		Mud Motor	7793.0	xxxx	7837.0	xxxx	16/Feb/2014 19:10	18/Feb/2014 xxx	xxx

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Marcus Boucher	11/Feb/14	16/Feb/14	Shirley Arimah	11/Feb/14	19/Feb/14	Kevin Sheridan	17/Feb/14	19/Feb/14

Mud Properties Record

Date / Time		LWD Run No.	Measured Depth (m.)	Mud Type	Density (sg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
14/Feb/14	07:00	3	7836.0	Water Based Mud	10.1	43	9.3	N/A	4/85	Mud Pit	2000	N/A
17/Feb/14	20:17	4	9926.0	Water Based Mud	9.8	48	9.3	N/A	3/89	Mud Pit	1900	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. Avg	API
GRIX	Gamma Ray Density	points
GRSI	Gamma Ray Sliding Indicator	unitless
ROP_AVG	Rate of Penetration, 3.0 ft. Avg	ft/hr
TCDX	Downhole Temperature	degF
TVD	True Vertical Depth	ft.
WOB_AVG	Surface Weight on Bit, 1.0 ft. Avg	klbs

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (m.)	Max O.D. (in.)	Min I.D. (in.)
3	DIR	12497607	Directional	47.49	6.750	3.522
3	SRIG	11892058	Gamma	44.12	6.750	3.522
4	DIR	11941435	Directional	53.84	4.750	0.000
4	SRIG	12679499	Gamma	50.46	4.750	1.791

Service and Tool Mnemonics

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

Comments

(1) Baker Hughes INTEQ run 1 utilized 6 1/2 inch NaviTrak services (Directional) behind an 8 3/4 inch bit and steerable assembly from 1331 to 1422 feet MD (1331 to 1422 feet TVD)
(2) Baker Hughes INTEQ run 2 utilized 6 1/2 inch NaviTrak services (Gamma Ray and Directional) behind an 8 3/4 inch bit and steerable assembly from 1422 to 3006 feet MD (1422 to 2962 feet TVD)
(3) Baker Hughes INTEQ run 3 utilized 6 1/2 inch NaviTrak services (Directional) behind an 8 3/4 inch bit and steerable assembly from 3006 to 7836 feet MD (2962 to 7411 feet TVD)
(4) Baker Hughes INTEQ run 4 utilized 4 3/4 inch NaviTrak services (Gamma Ray and Directional) behind an 6 1/8 inch bit and steerable assembly from 7836 to xxx feet MD (7411 to xxx feet TVD)

Remarks

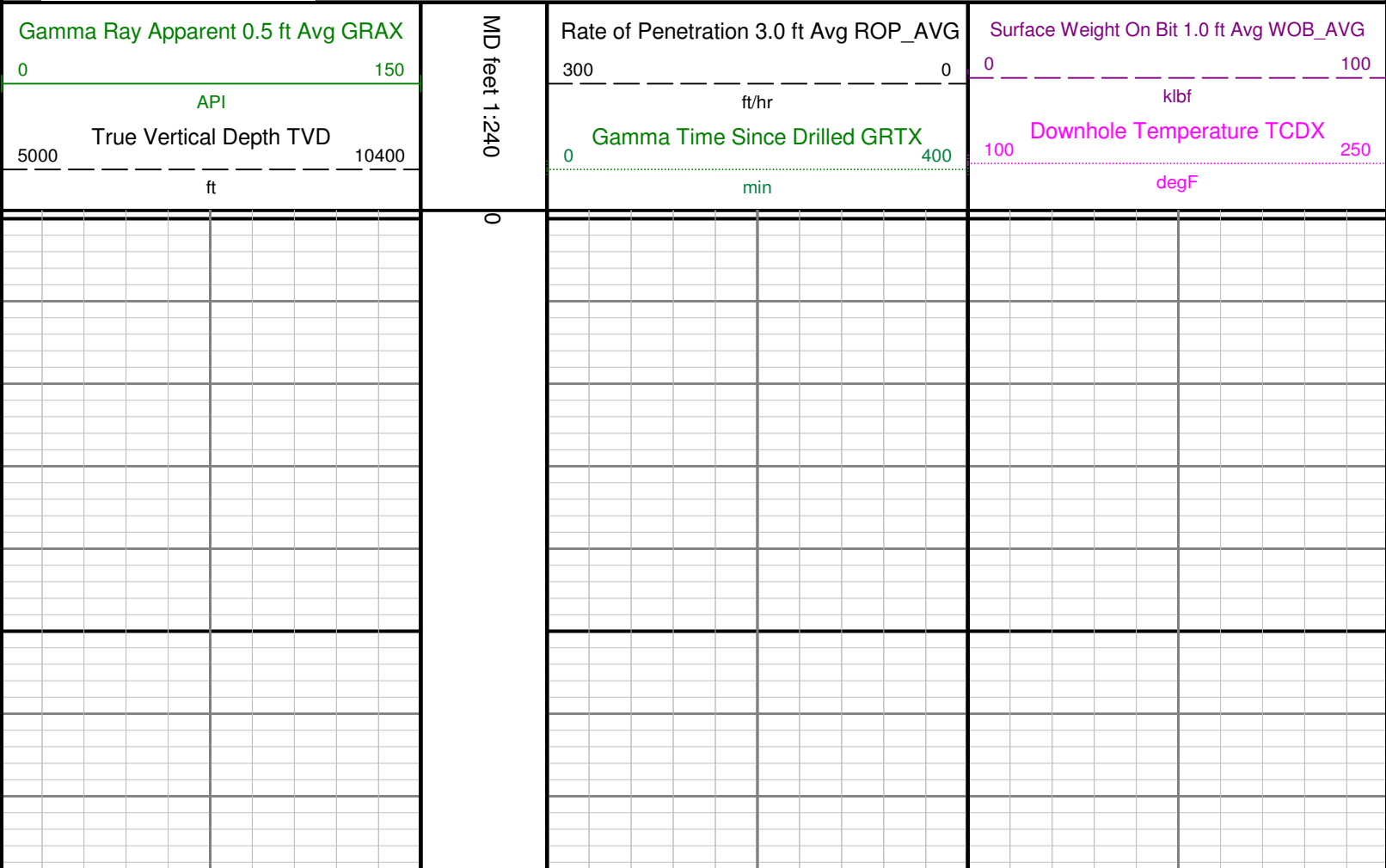
Number	Measured Depth (m.)	Hole Section (in.)	LWD Run No.	Remark
1	6881	8.750	3	The interval from Surface to 6881 feet MD (6818 feet TVD) was not logged due to Baker Hughes logging services beginning at the top of the curve section

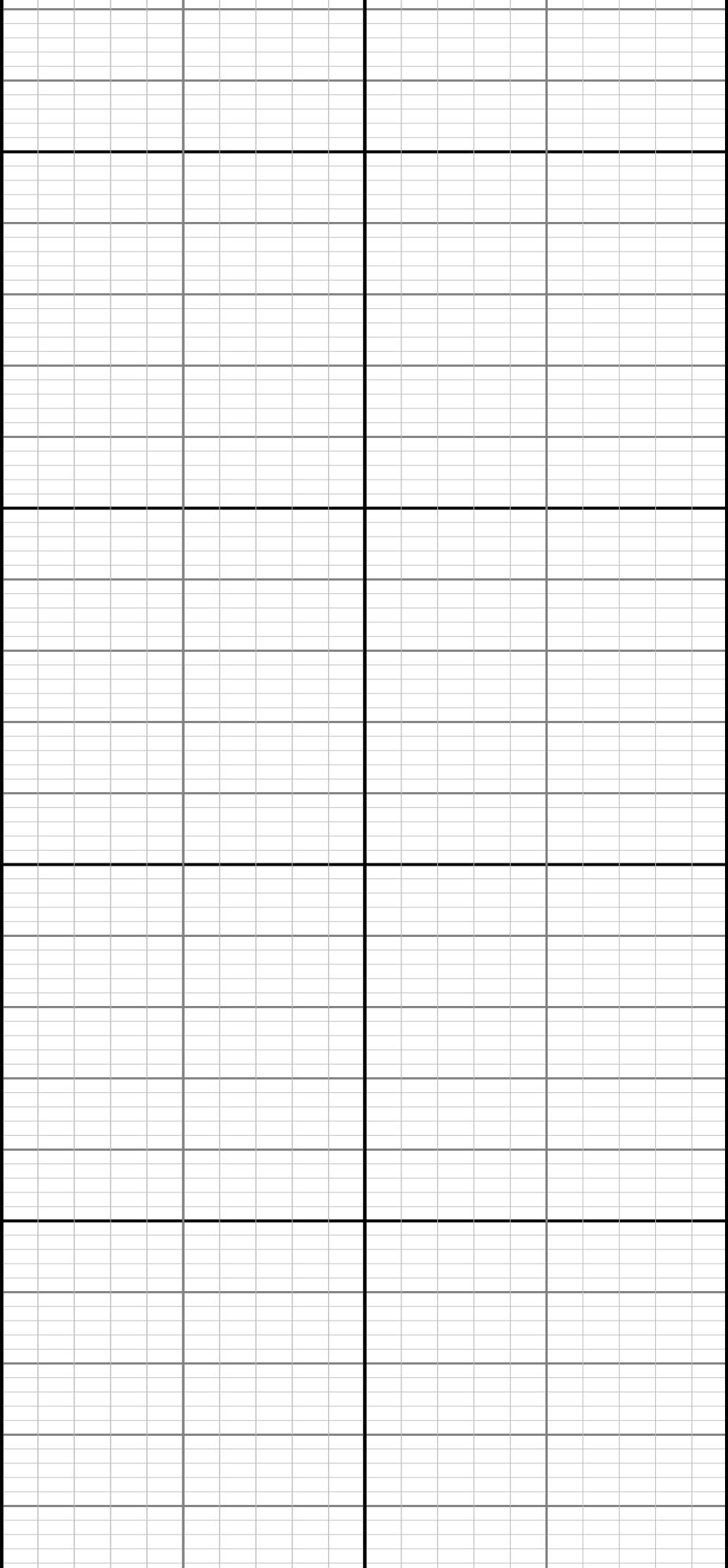
The interval from 7793 to 7836 feet MD (7409 to 7411 feet TVD) gamma data was logged up to 40 hours later due to tripping out of hole for casing and cement operations. Gamma data is attenuated due to logging behind casing.

Curve Mnemonics



Company : Kerr-McGee
Well : Badding 2N-26HZ
Interval : -1.00 - 12792.00 feet
Created : 19/Feb/2014 1:53:39 AM

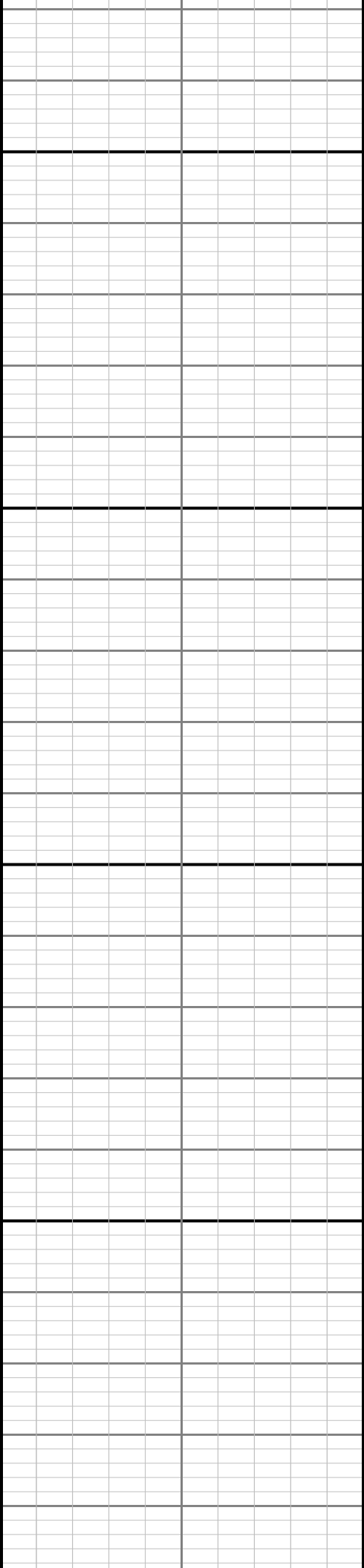


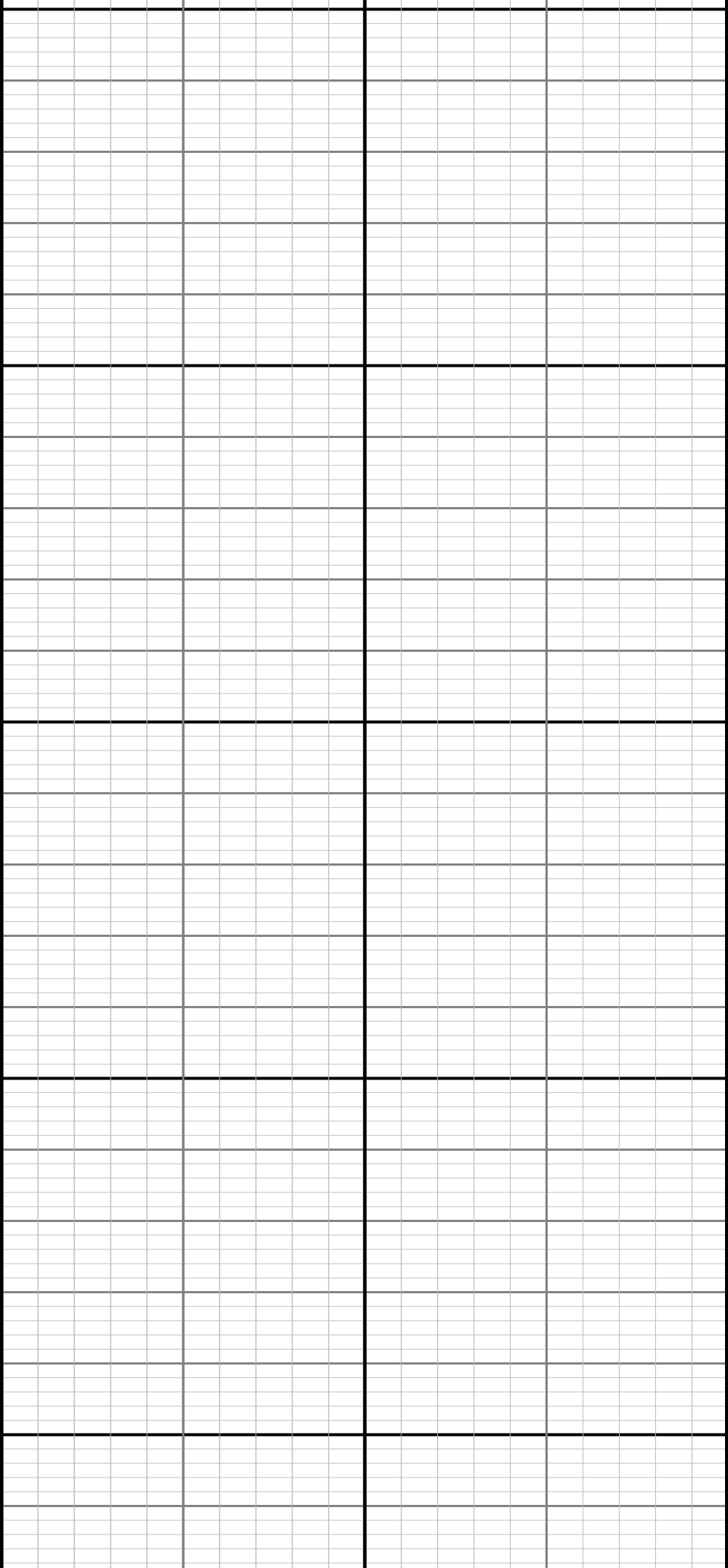


100

200

3

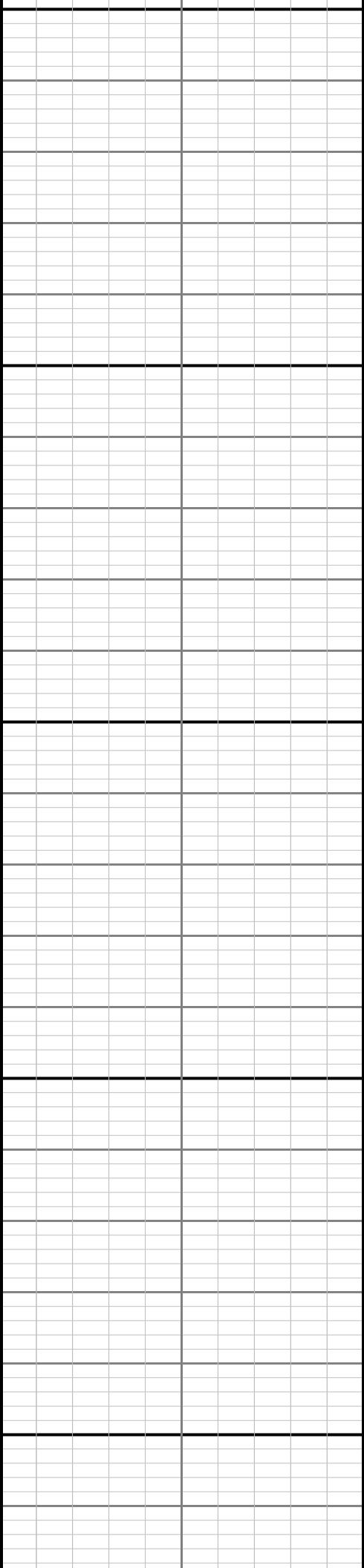


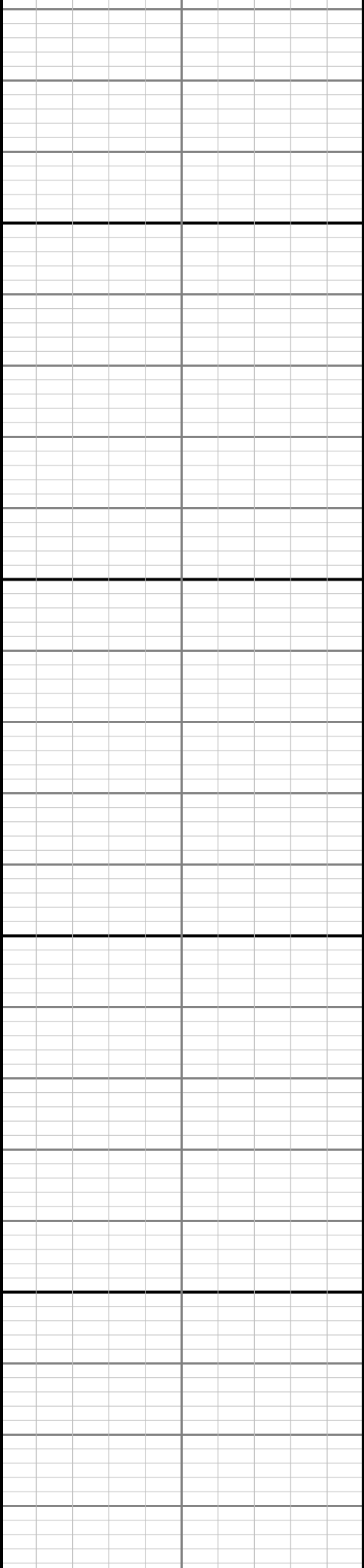


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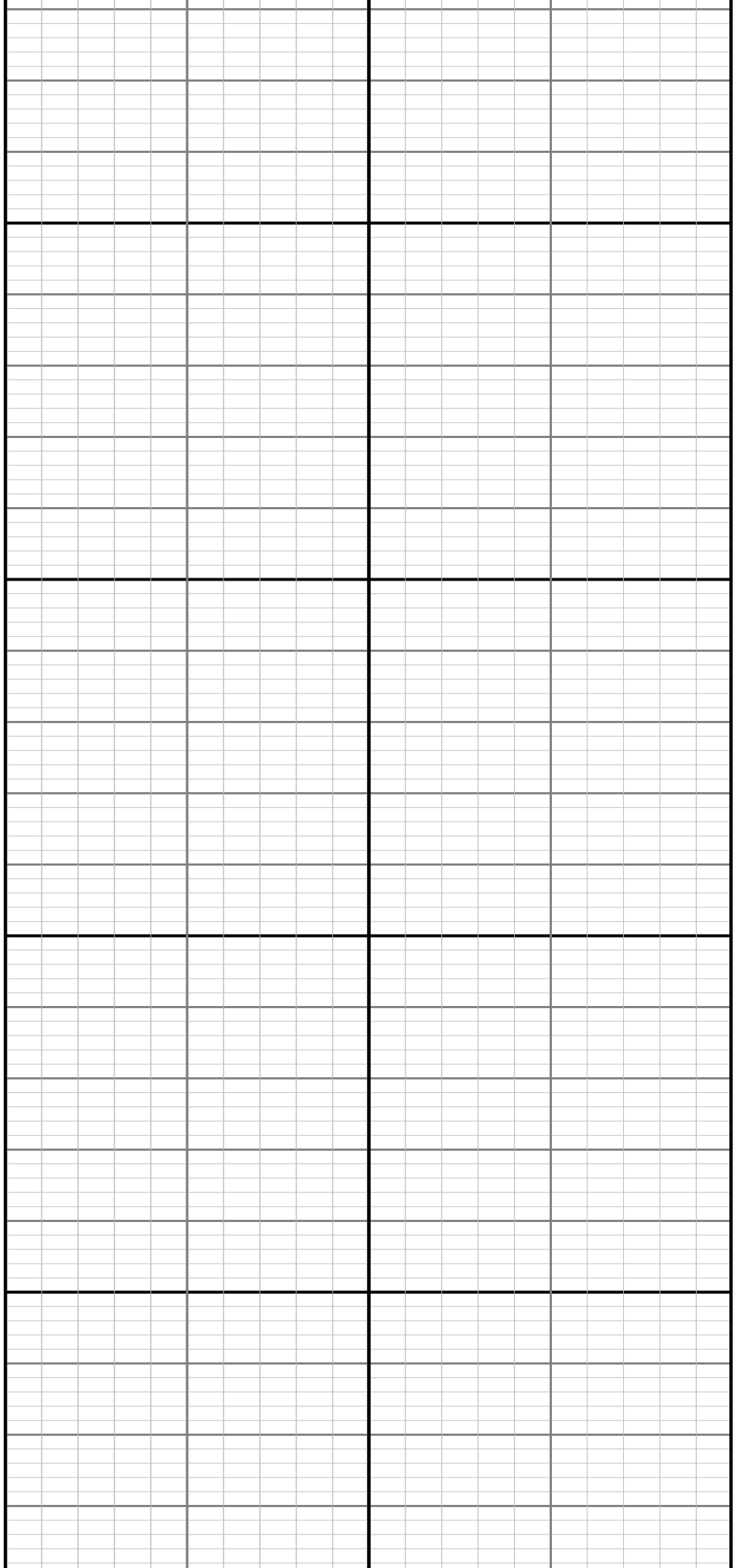
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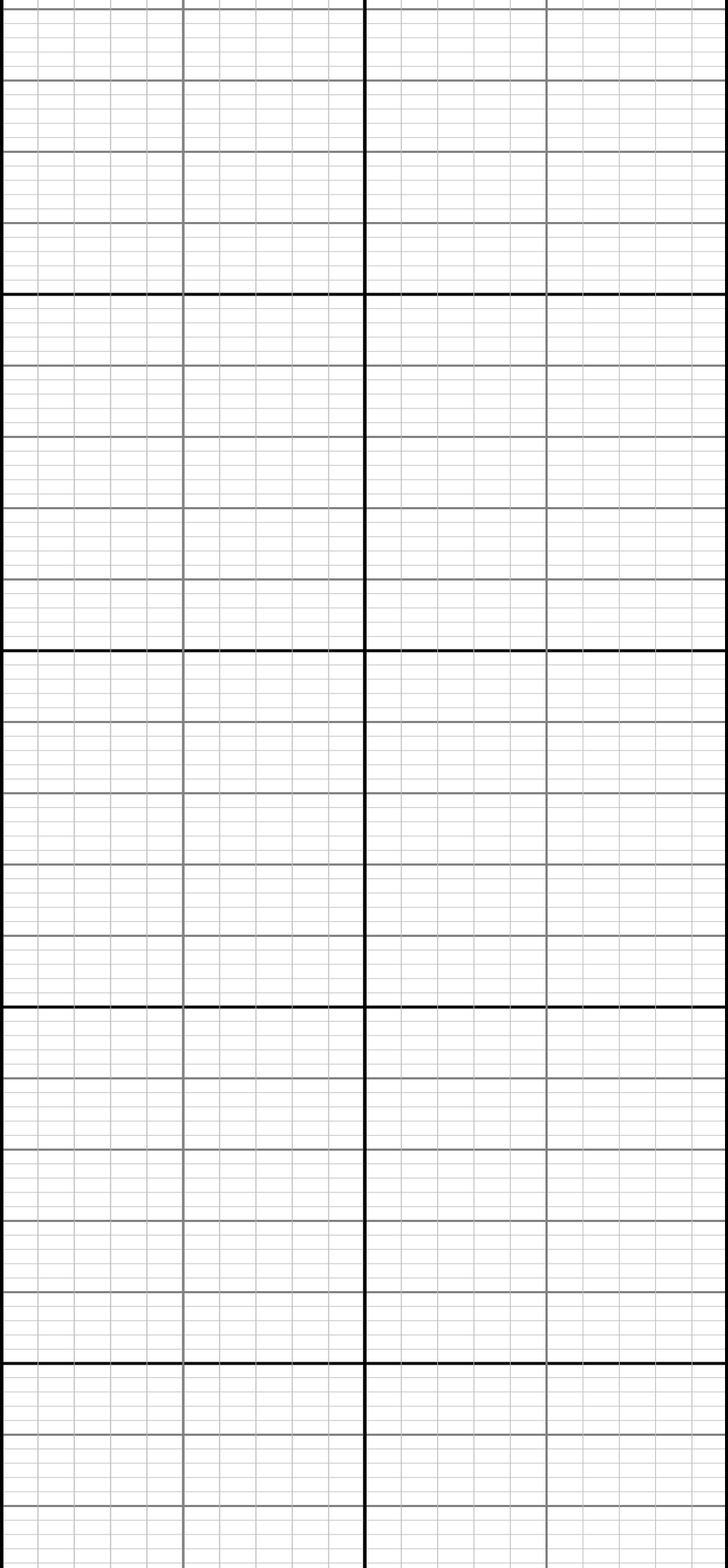




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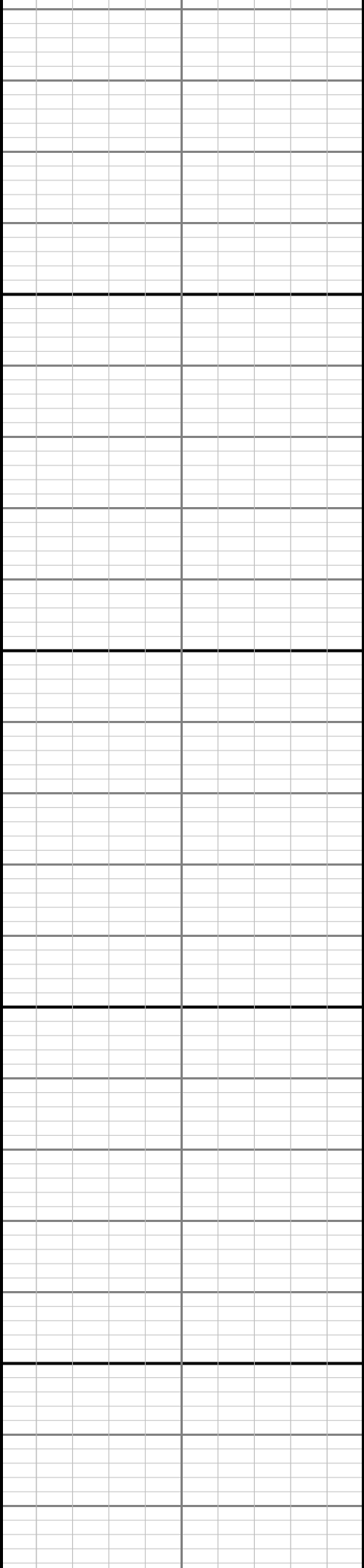
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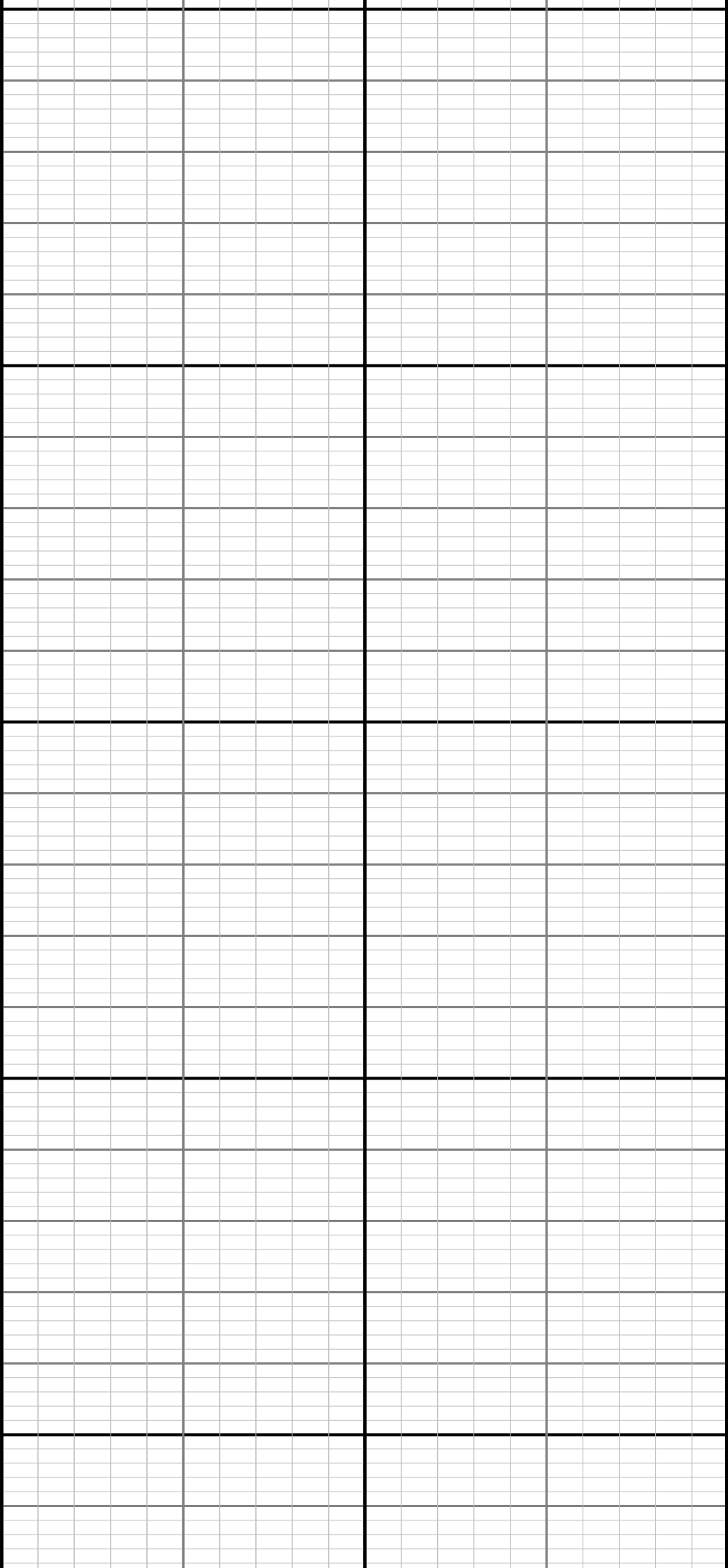




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1 100

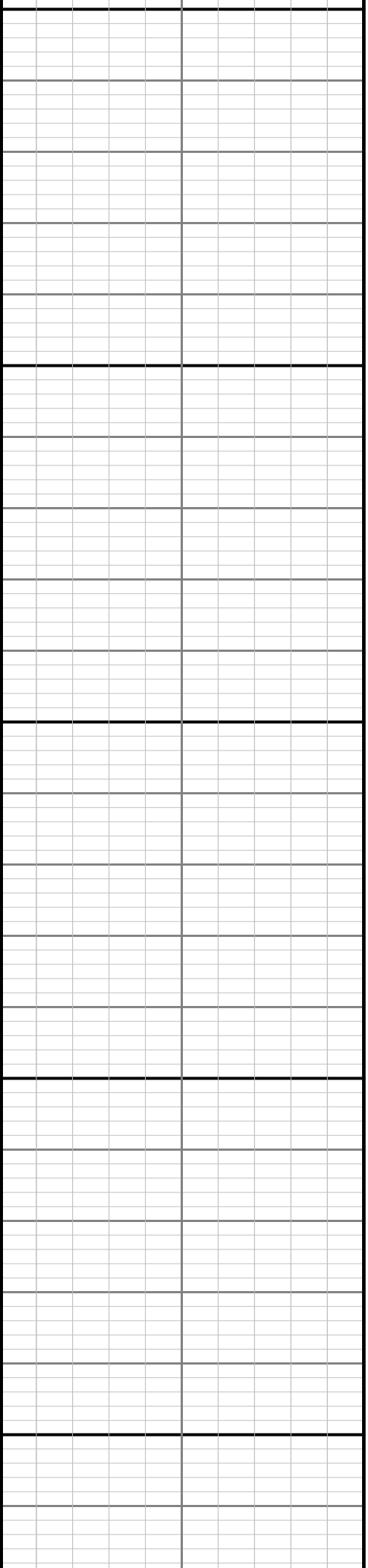


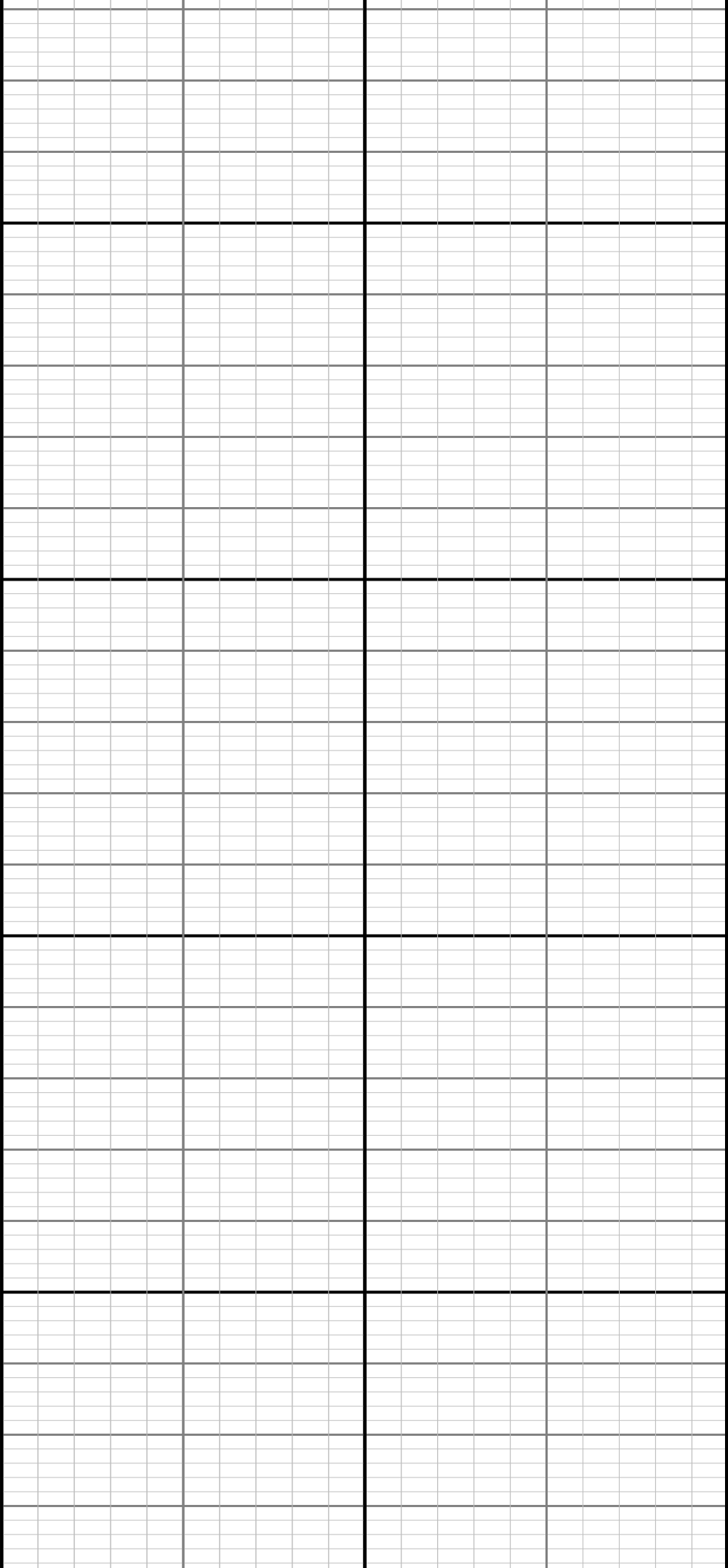


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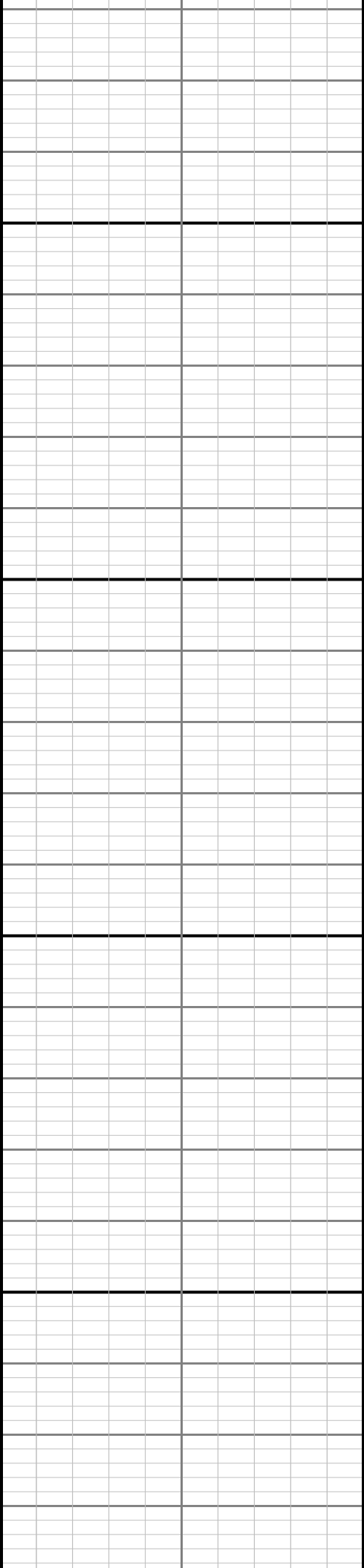
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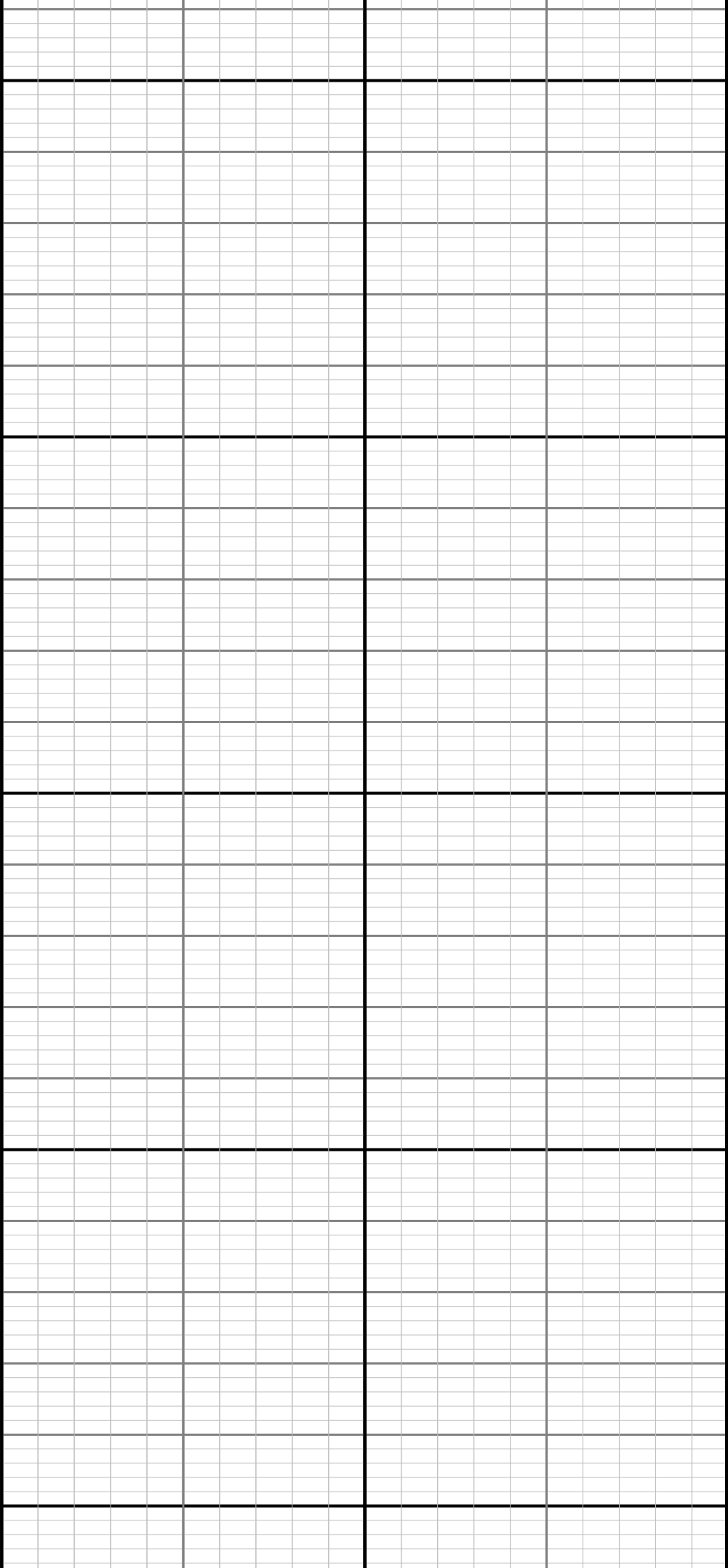




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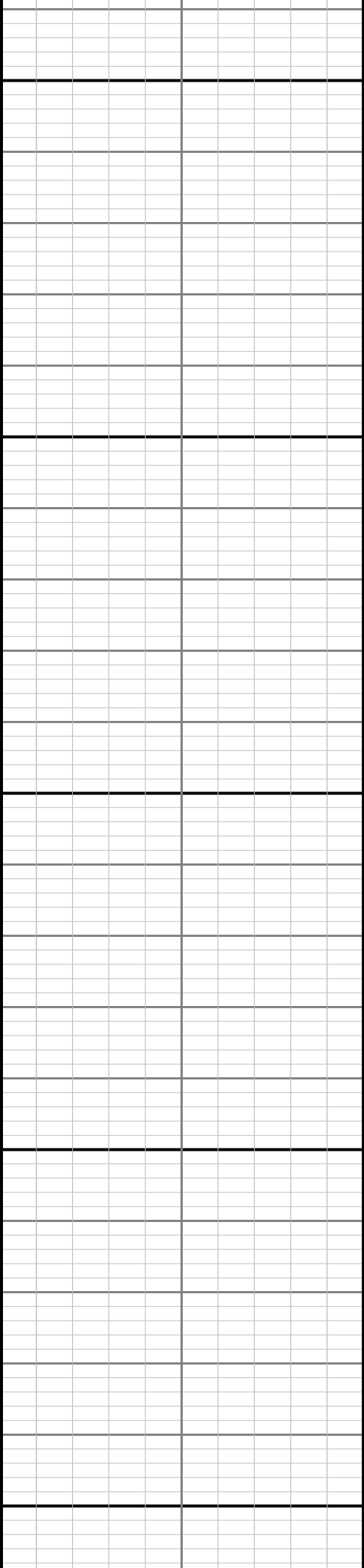
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1900

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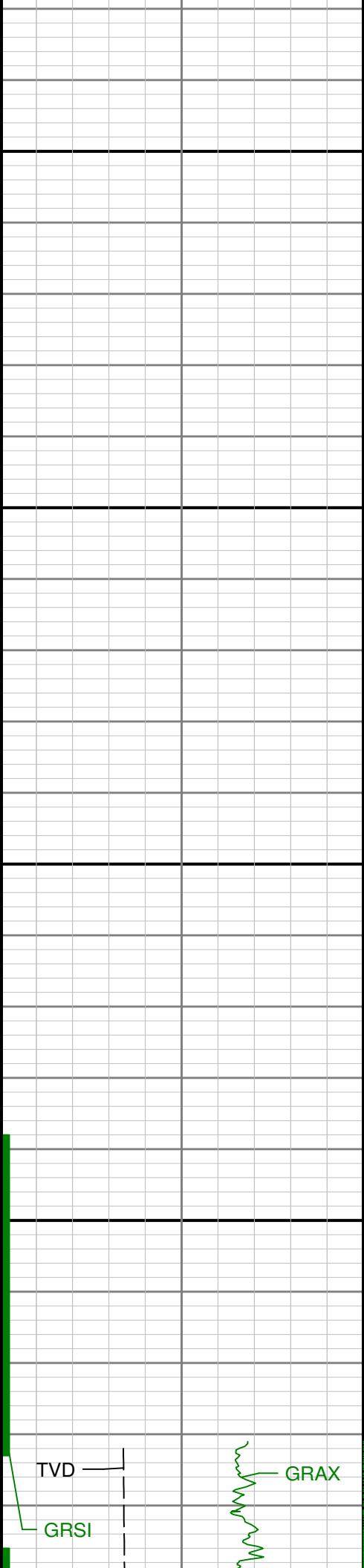
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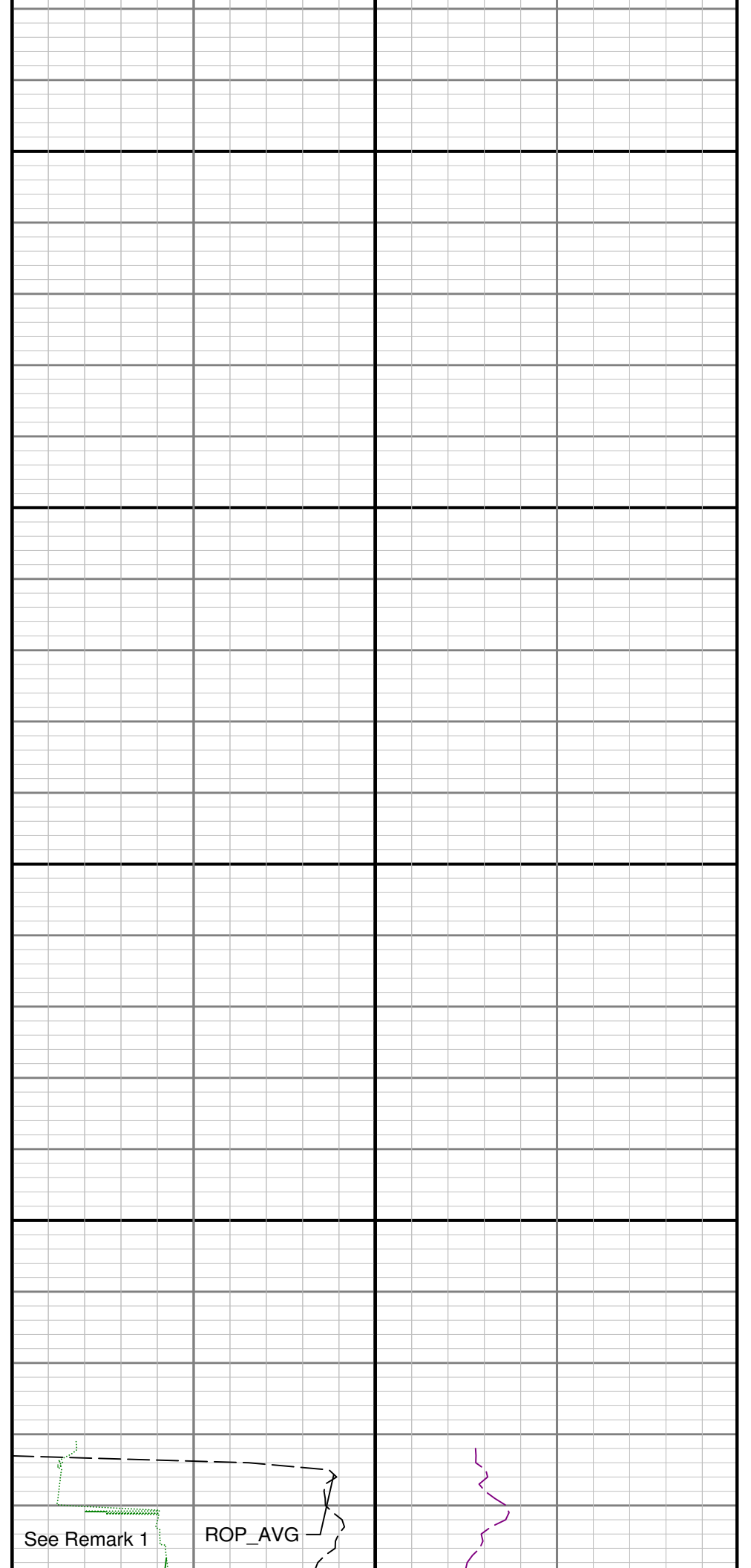
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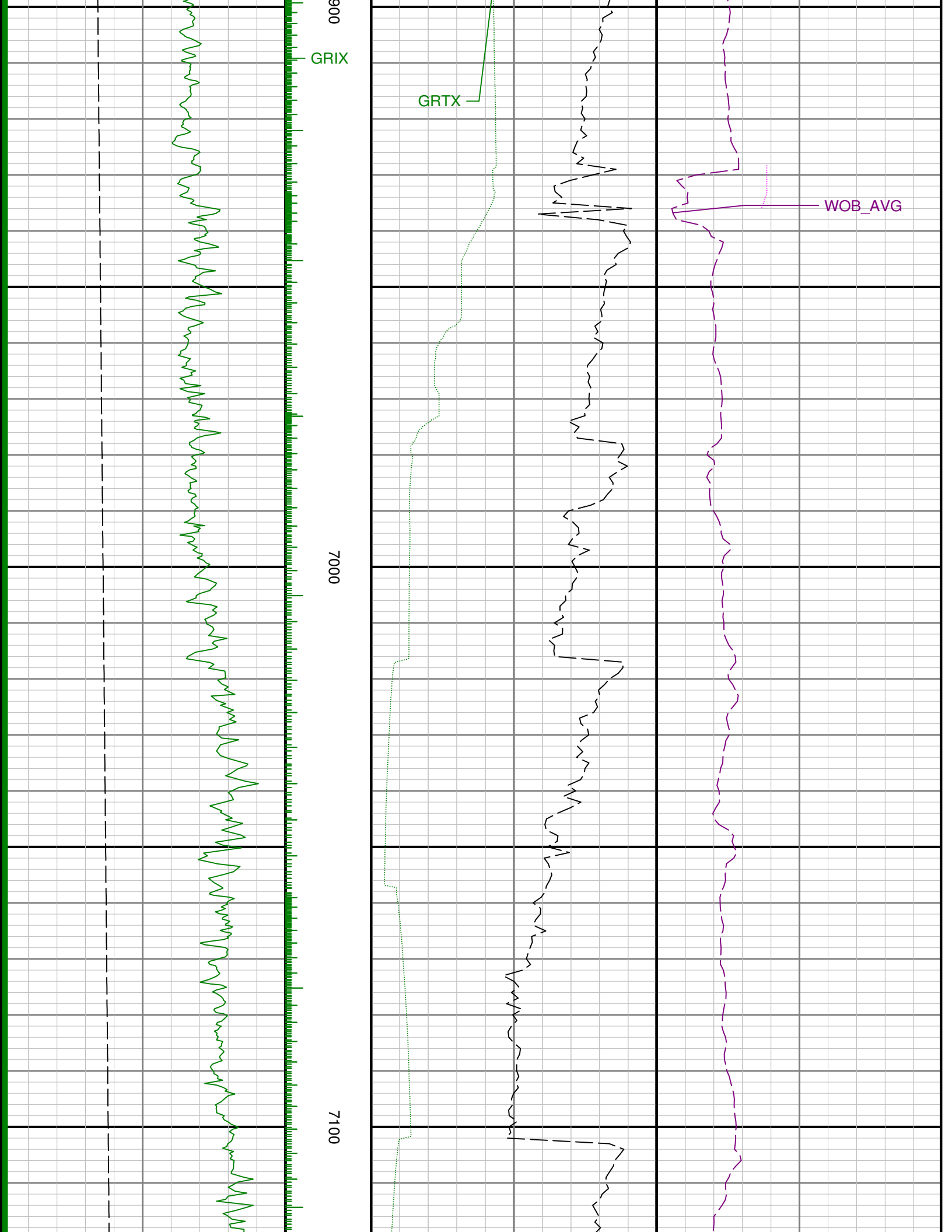


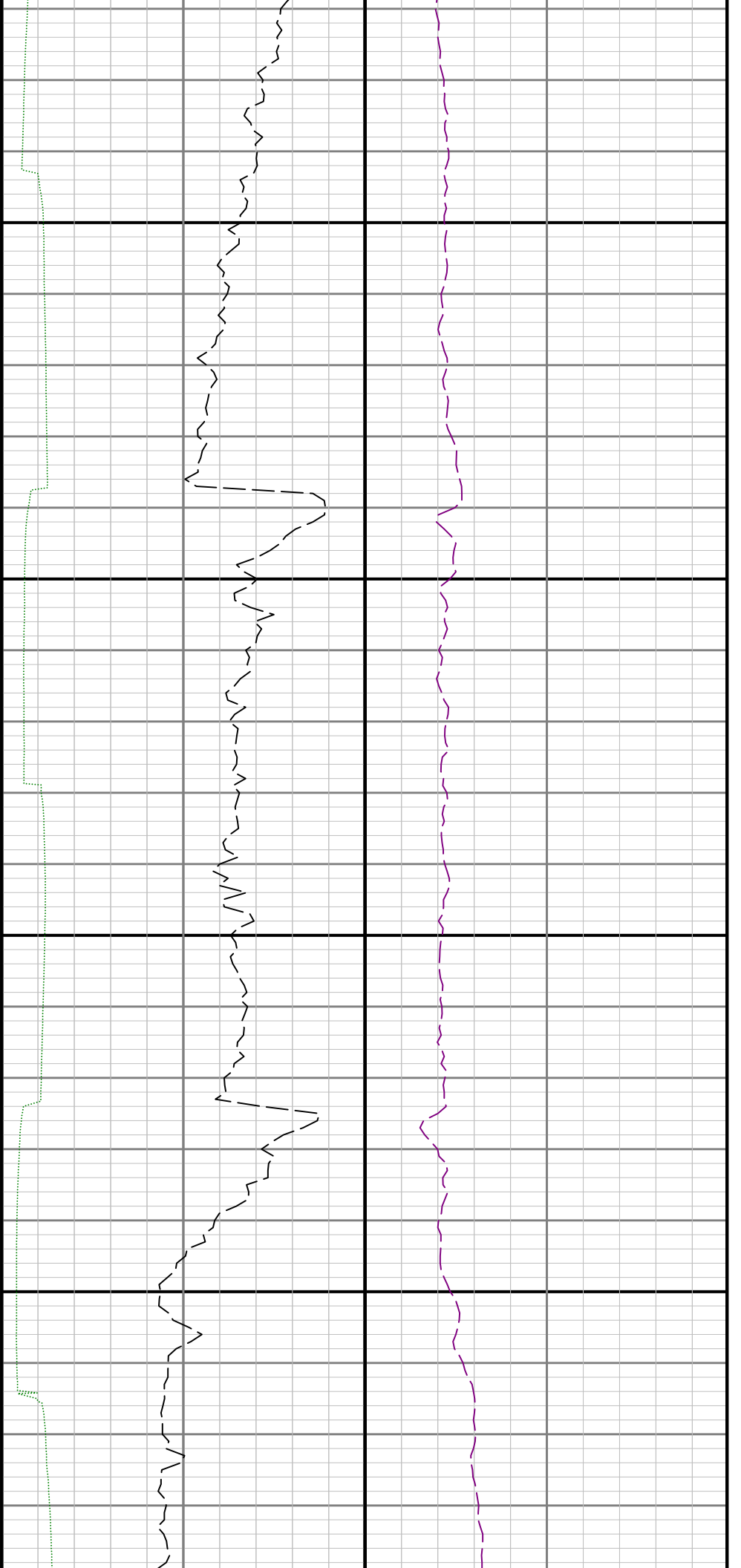
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6800

Run 3 < 6

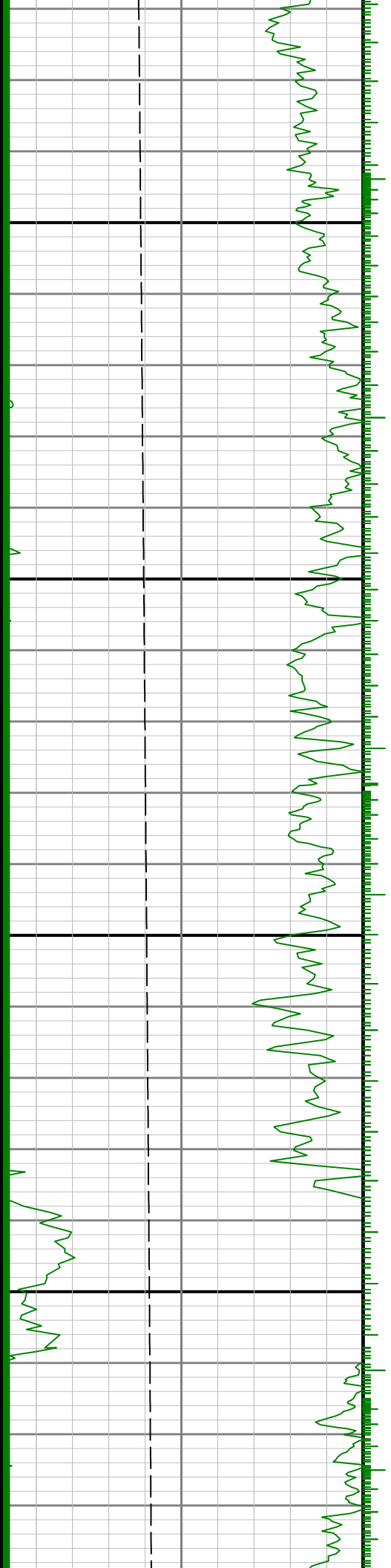


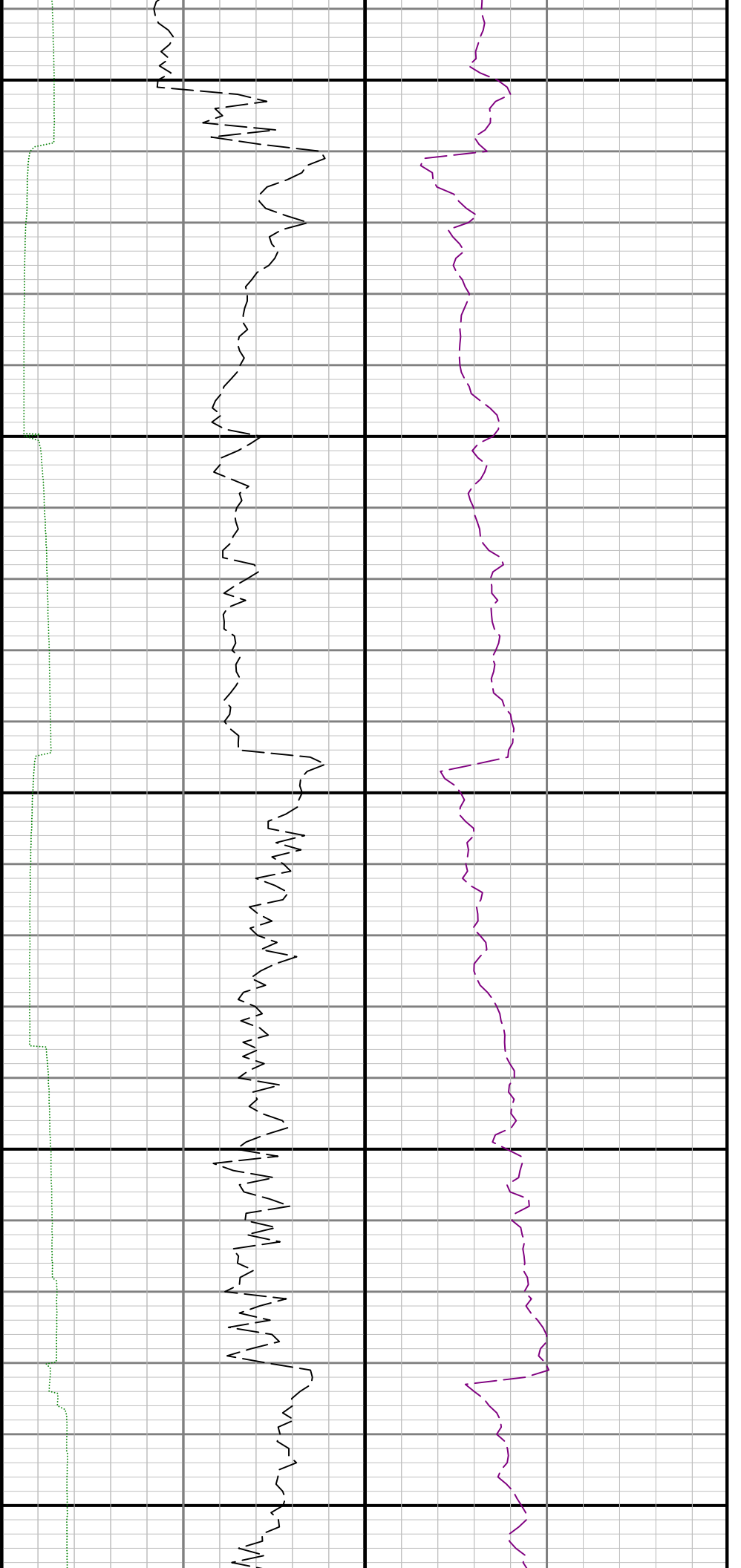




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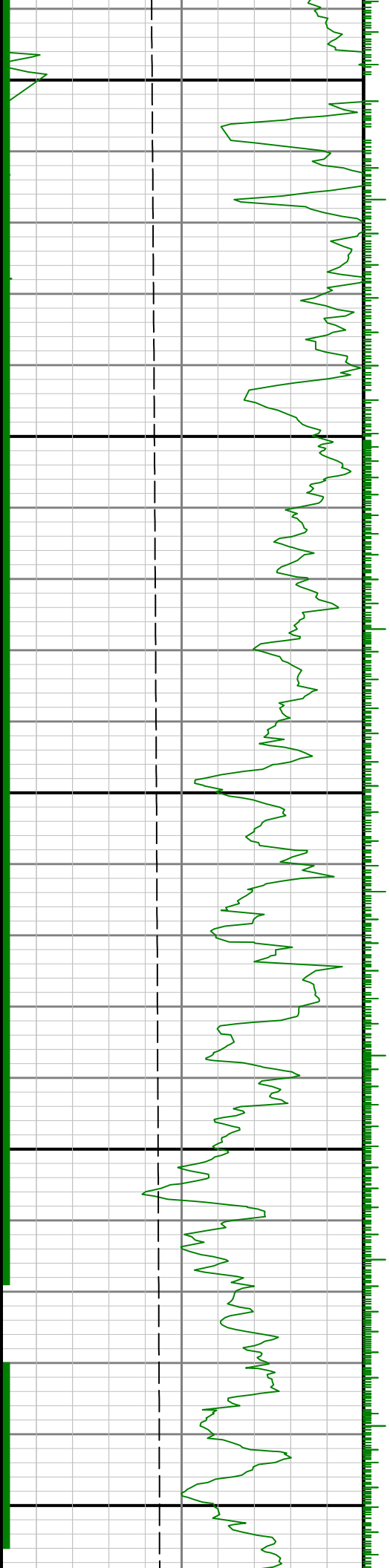
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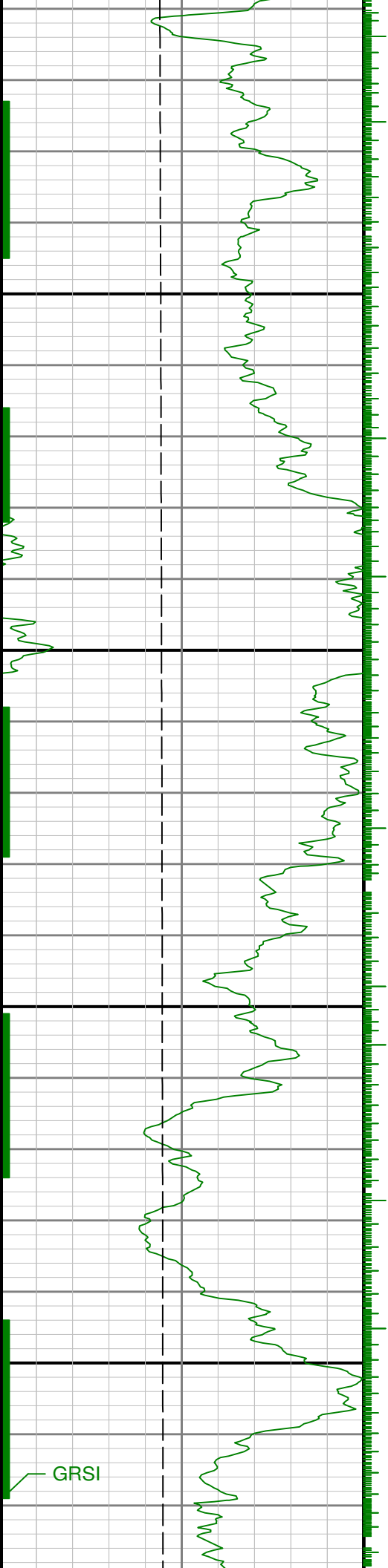




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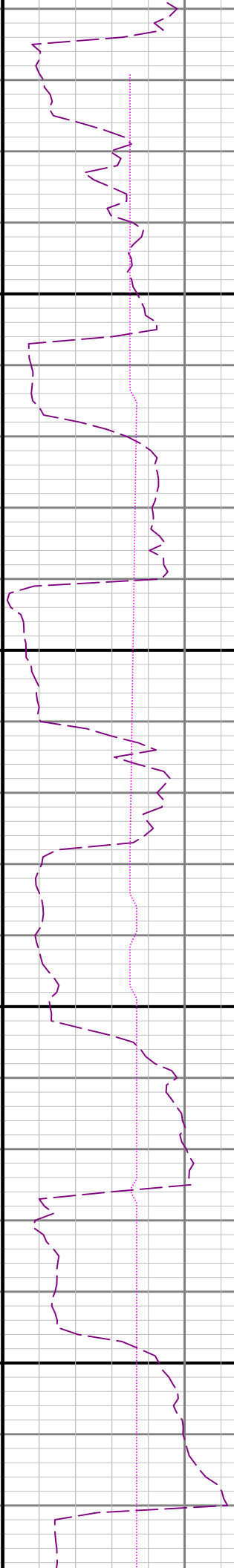
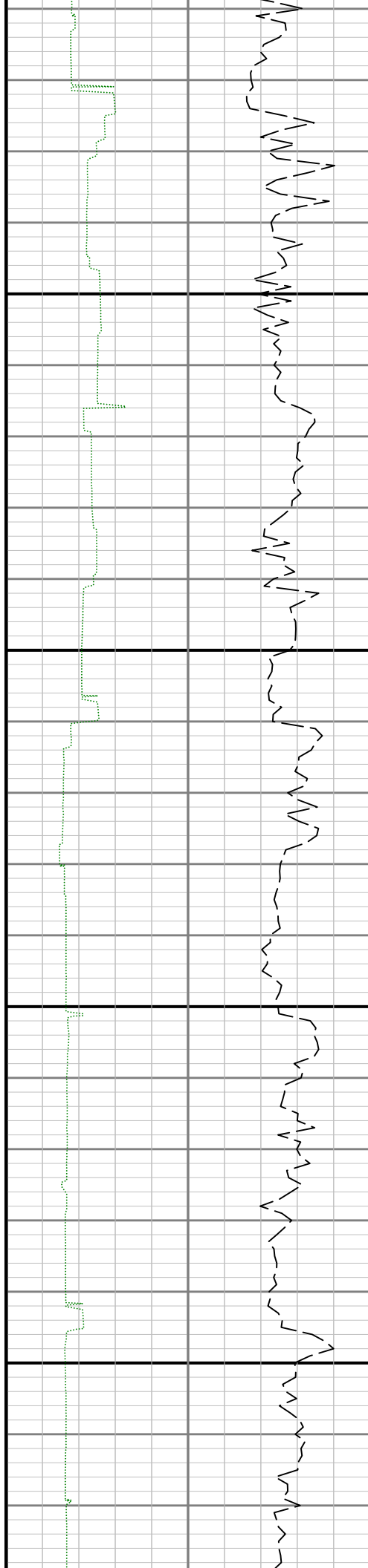
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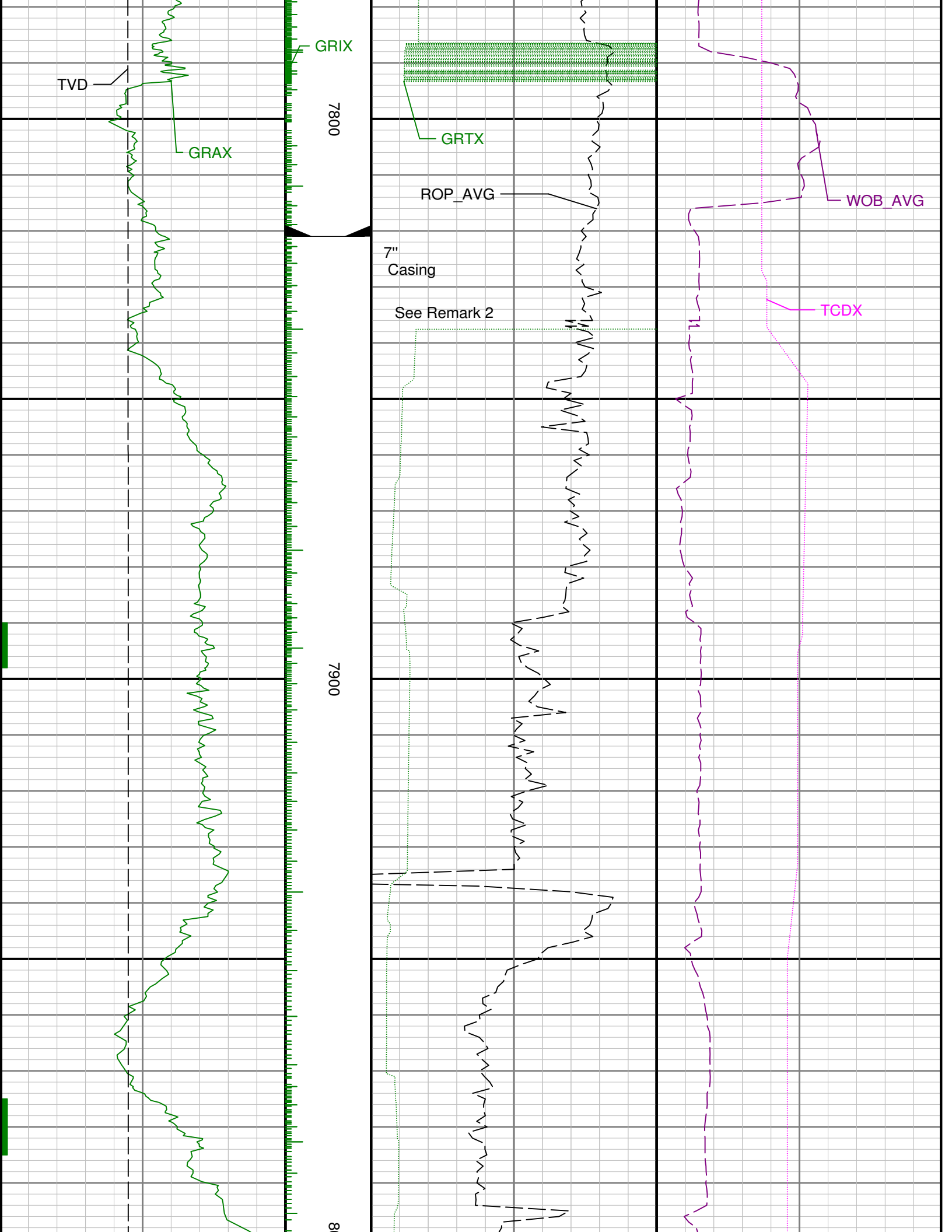


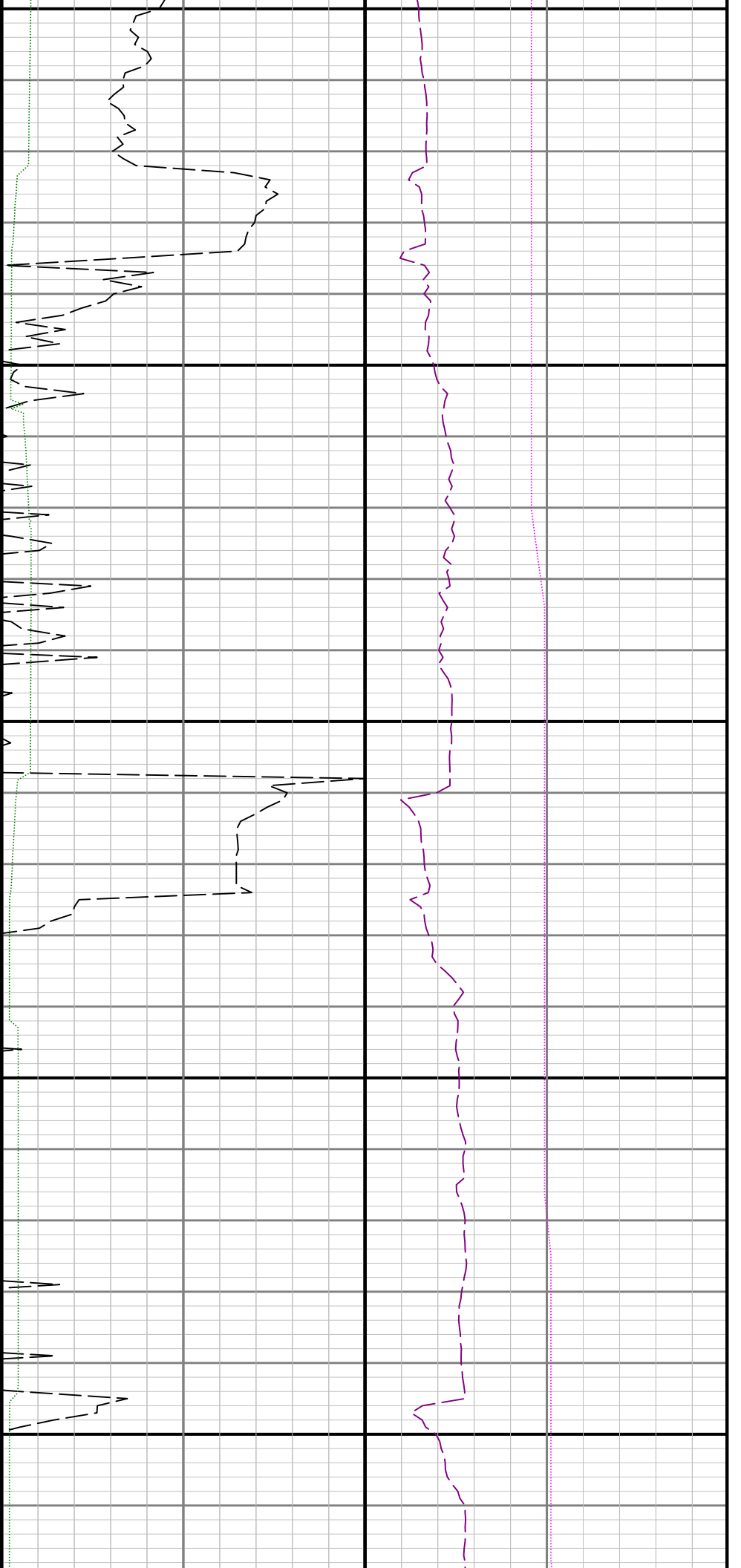


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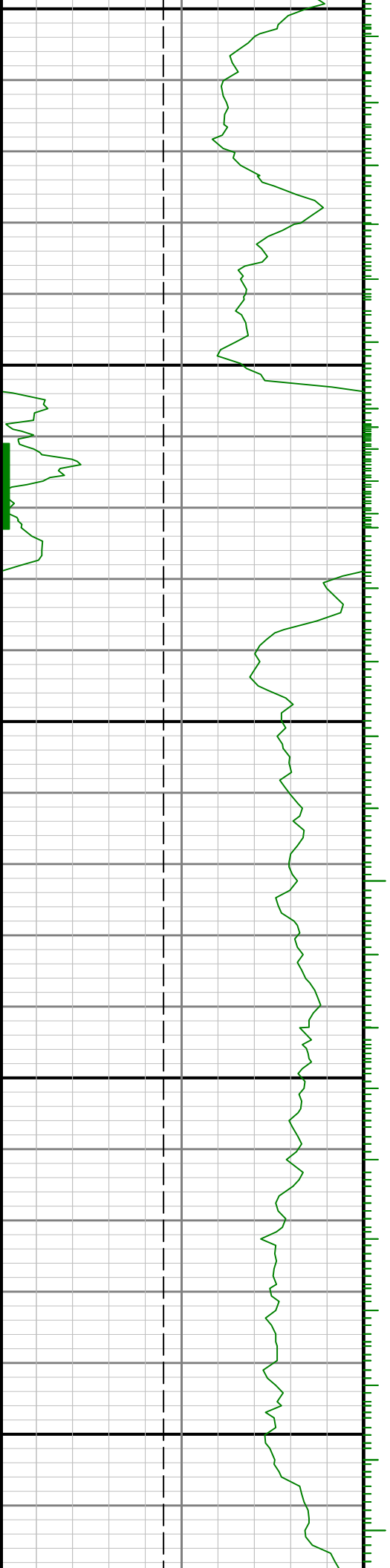


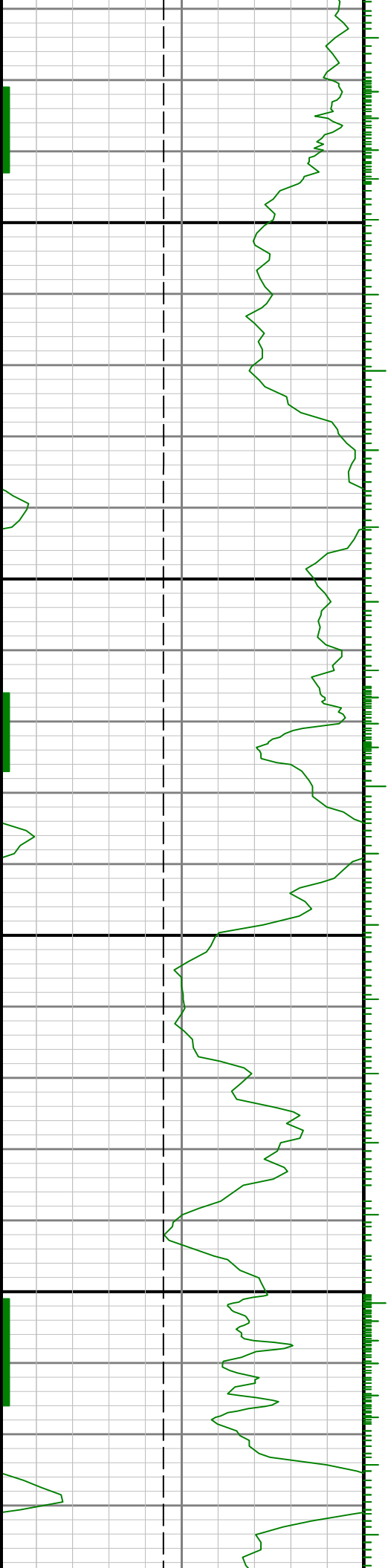


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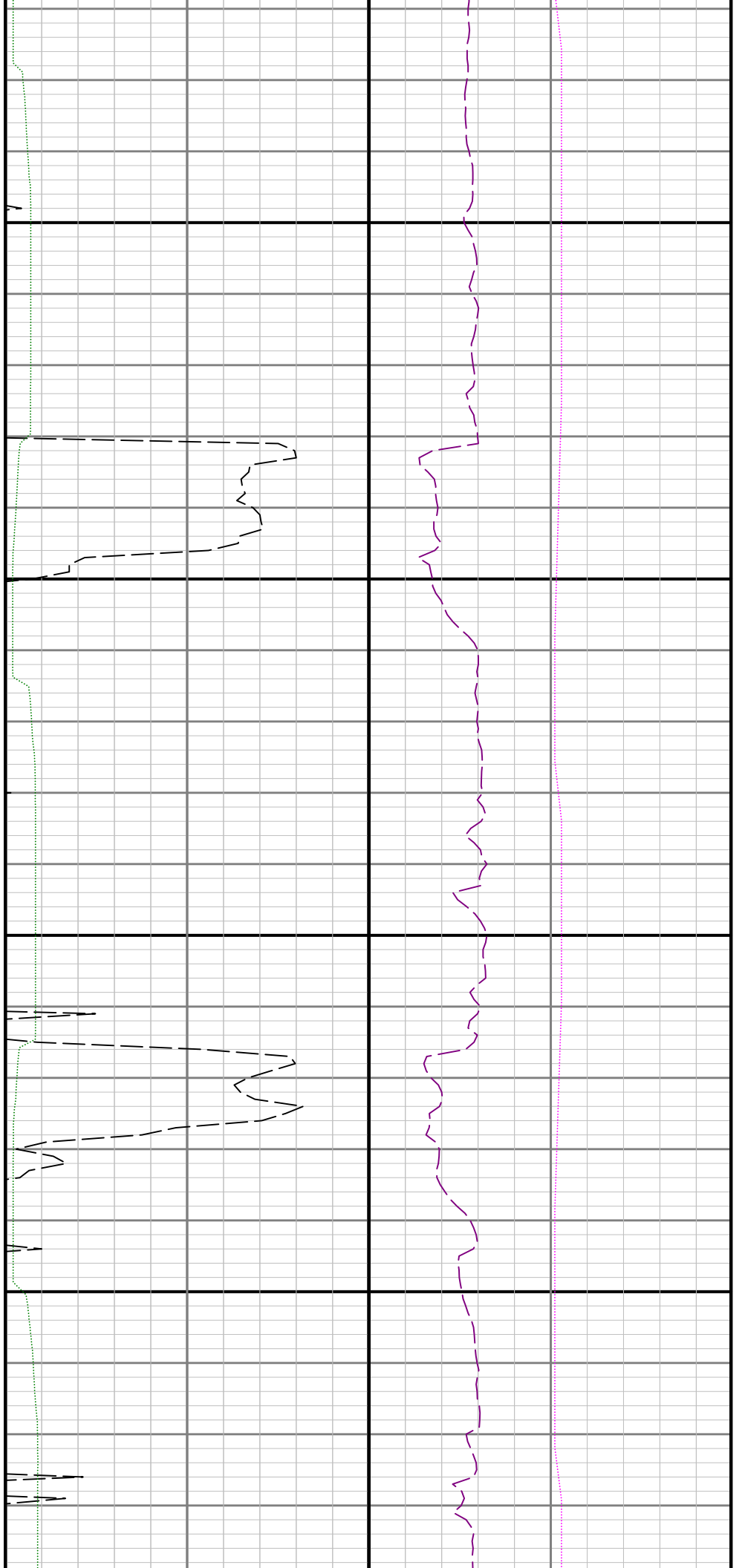
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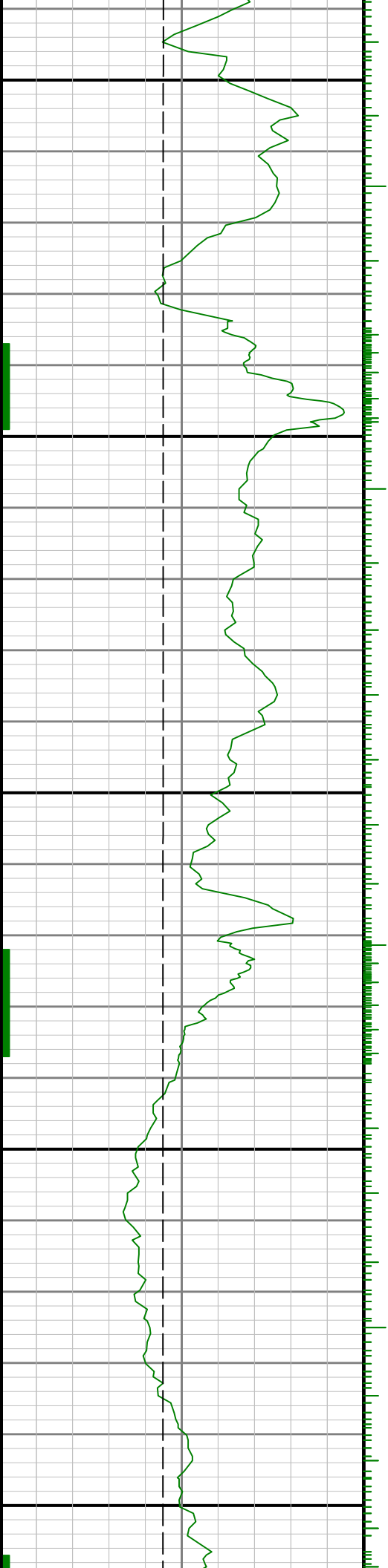




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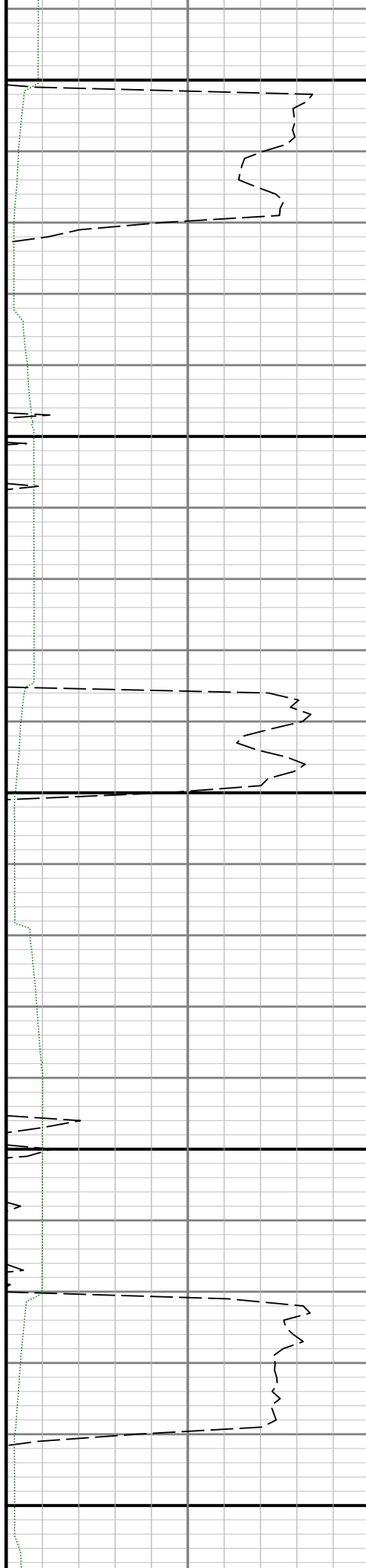
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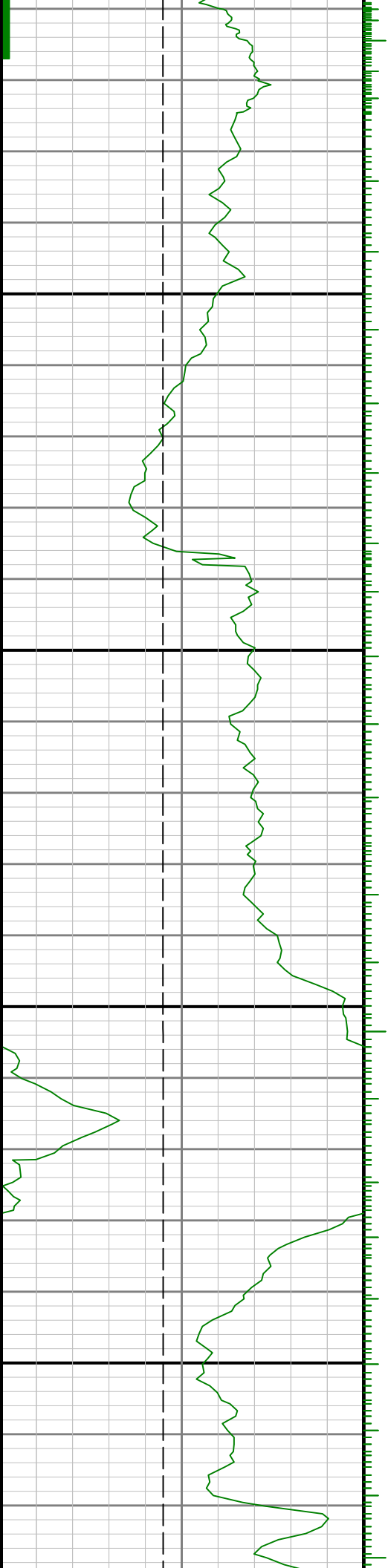




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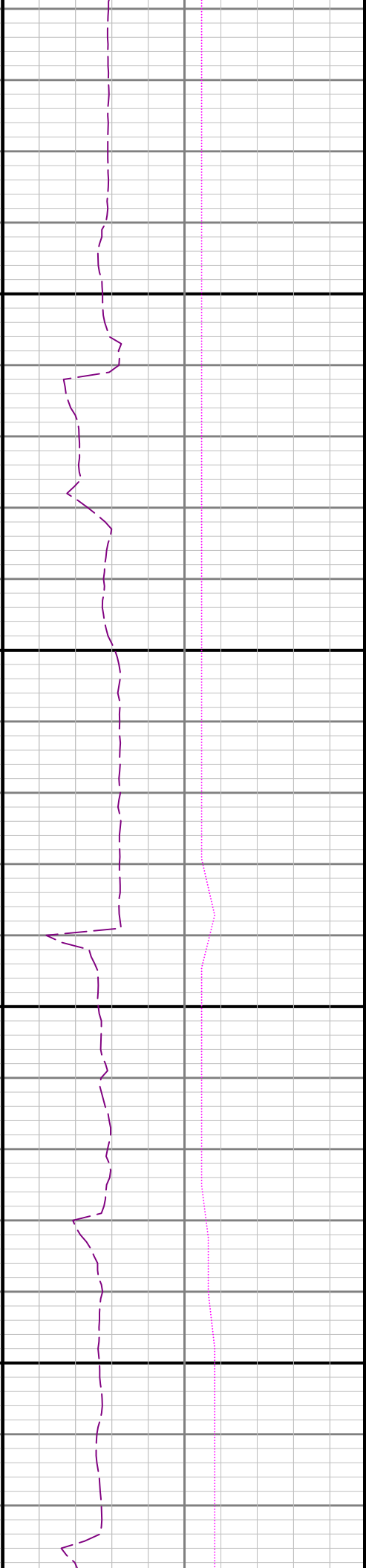
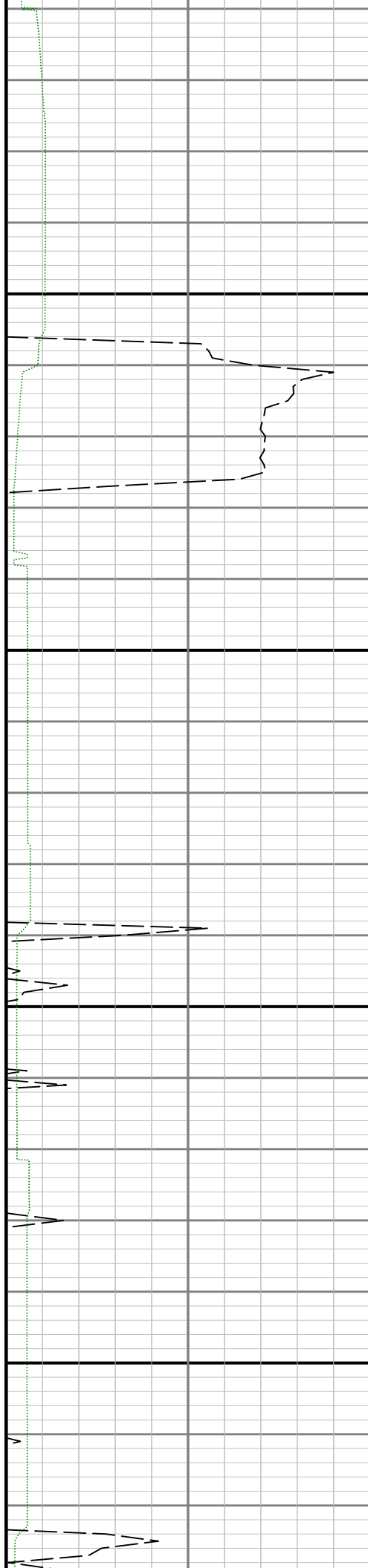
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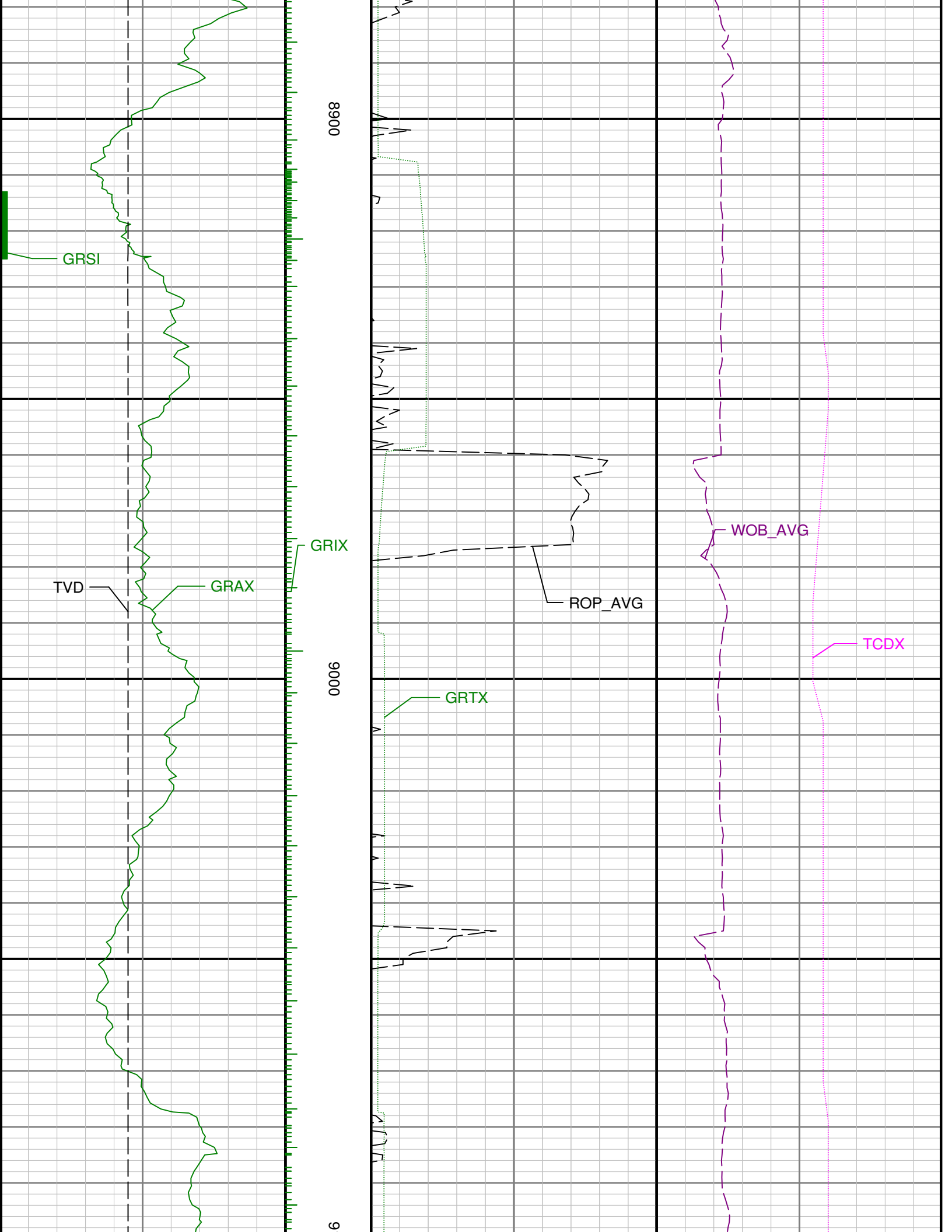


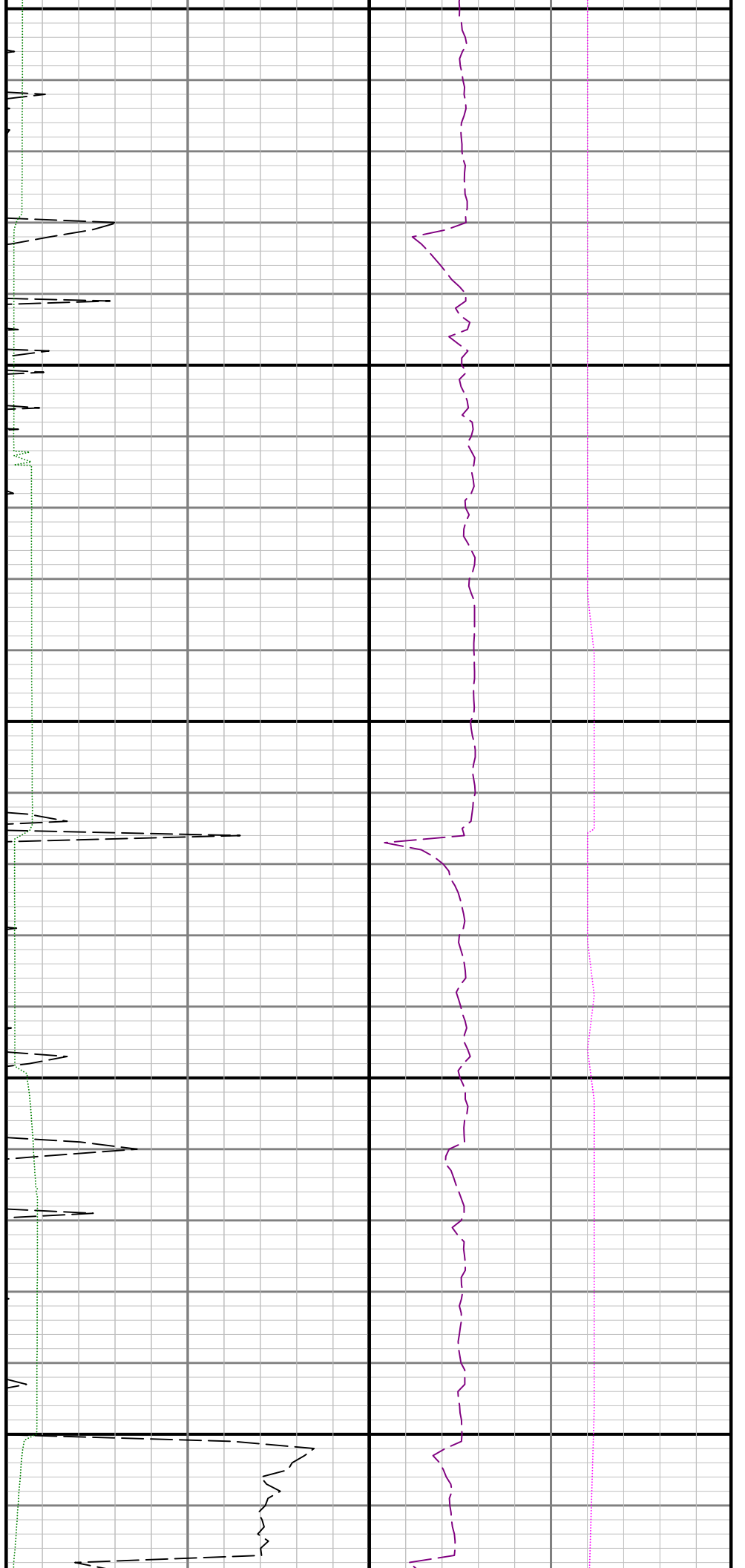


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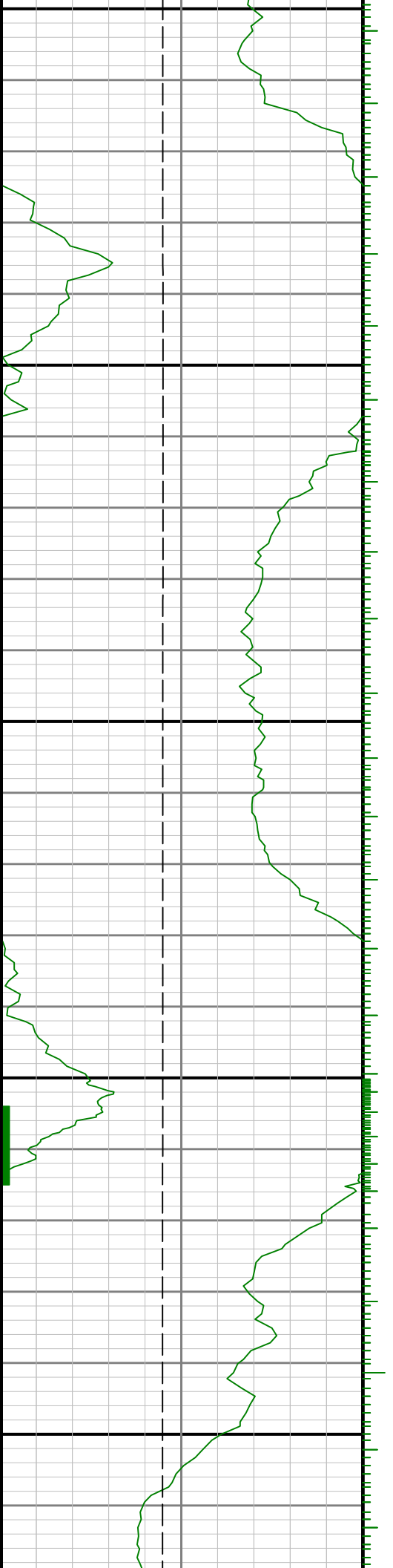


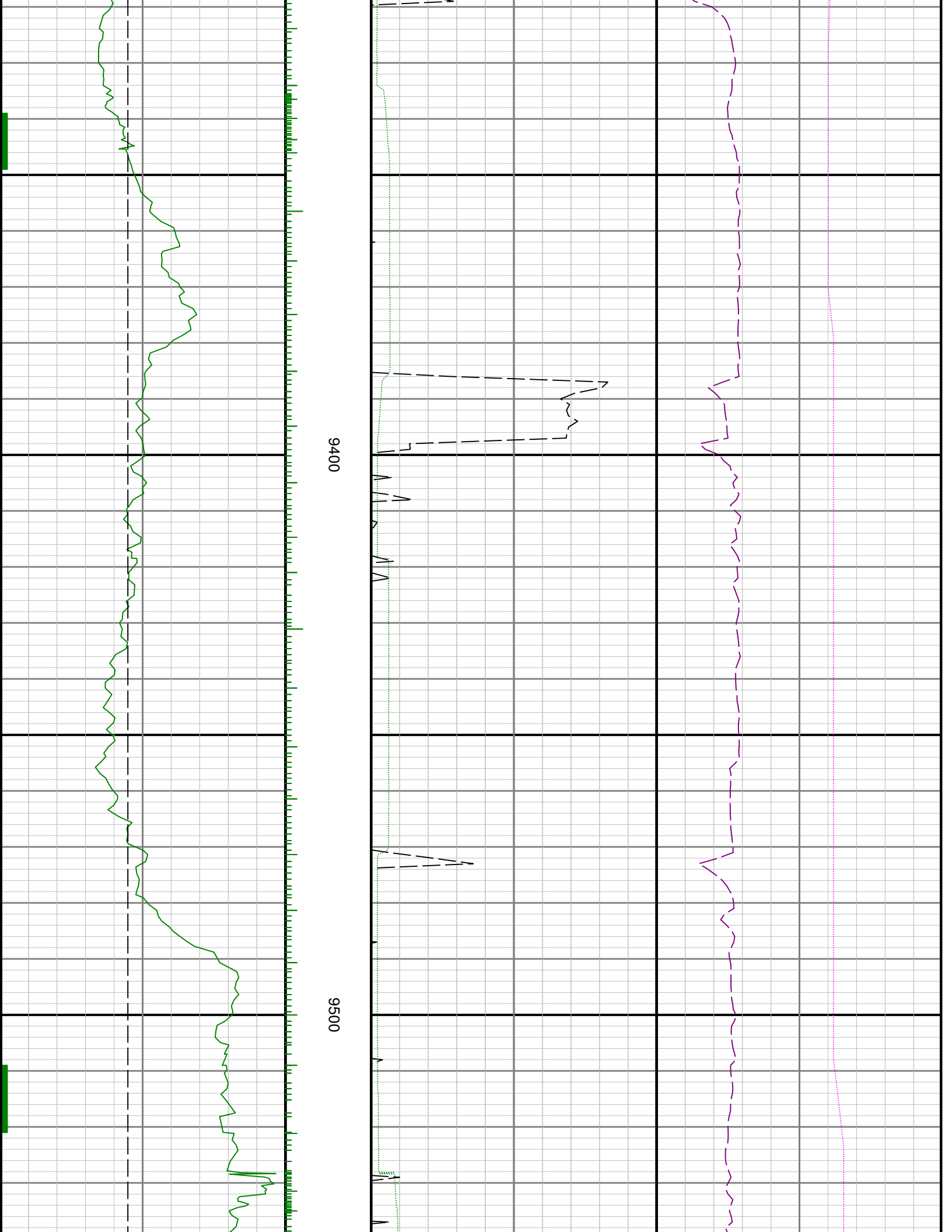


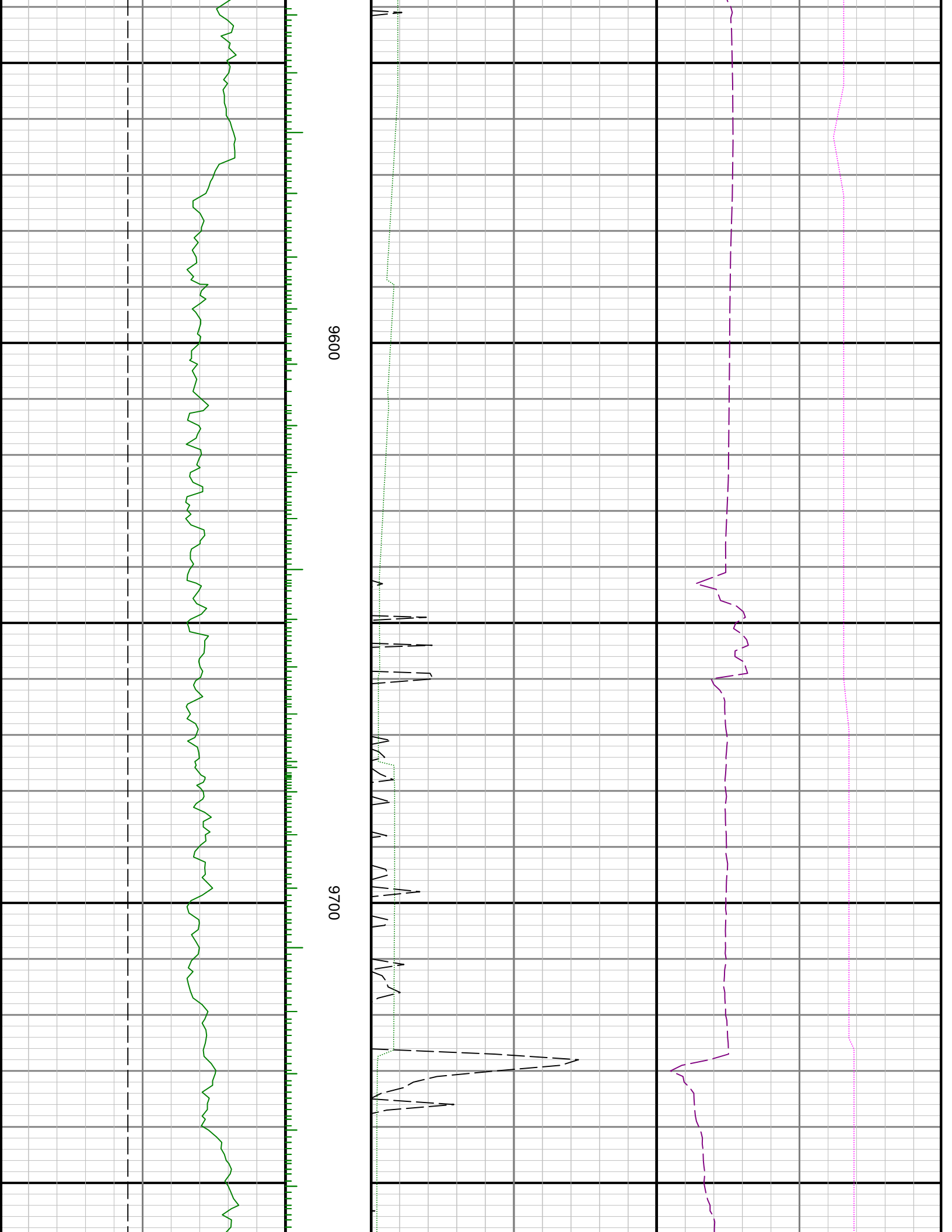
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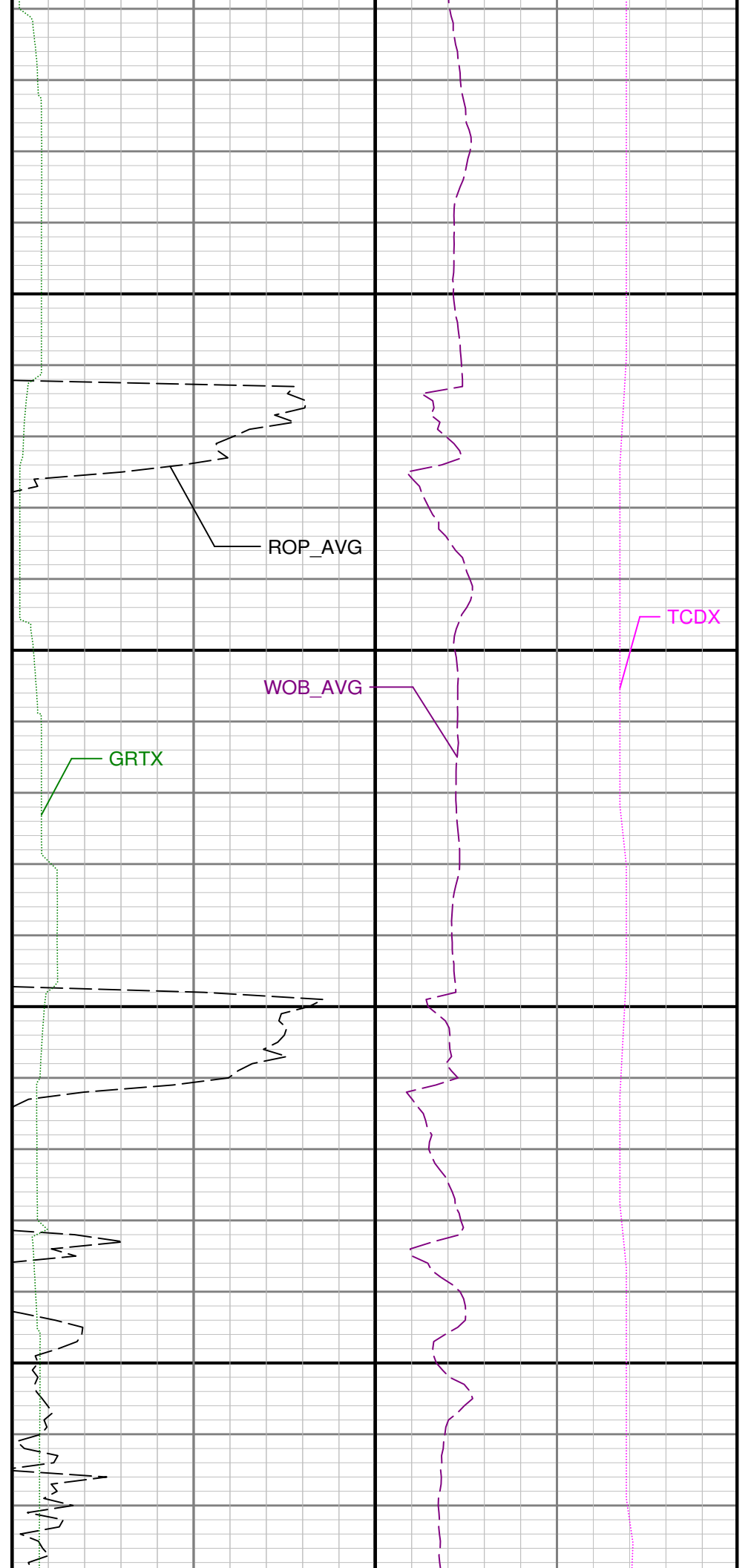
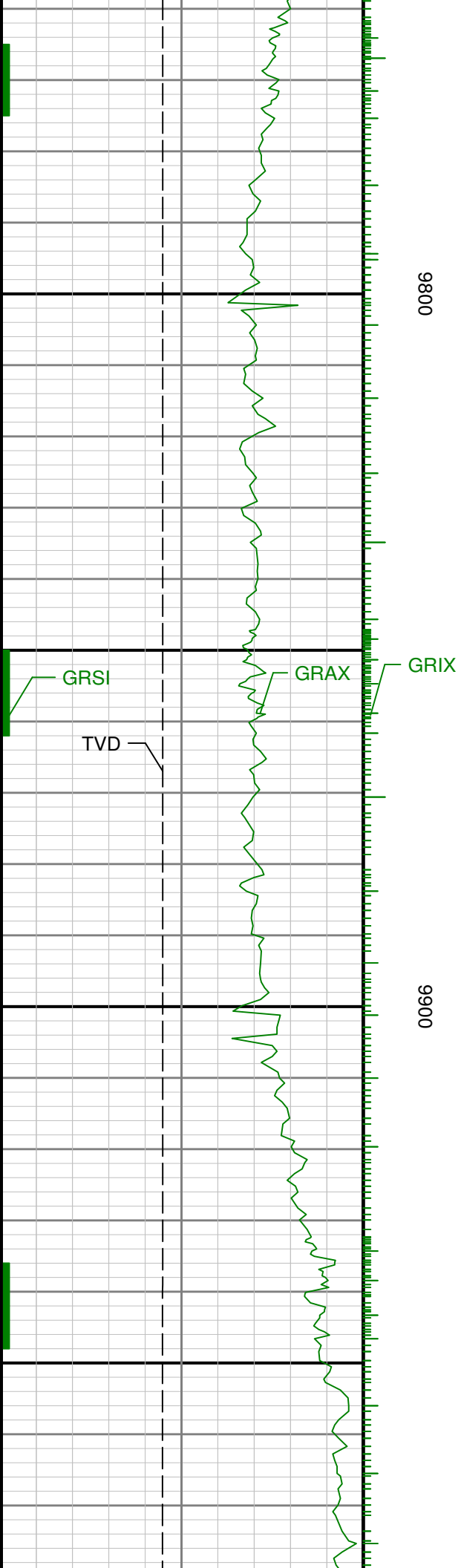
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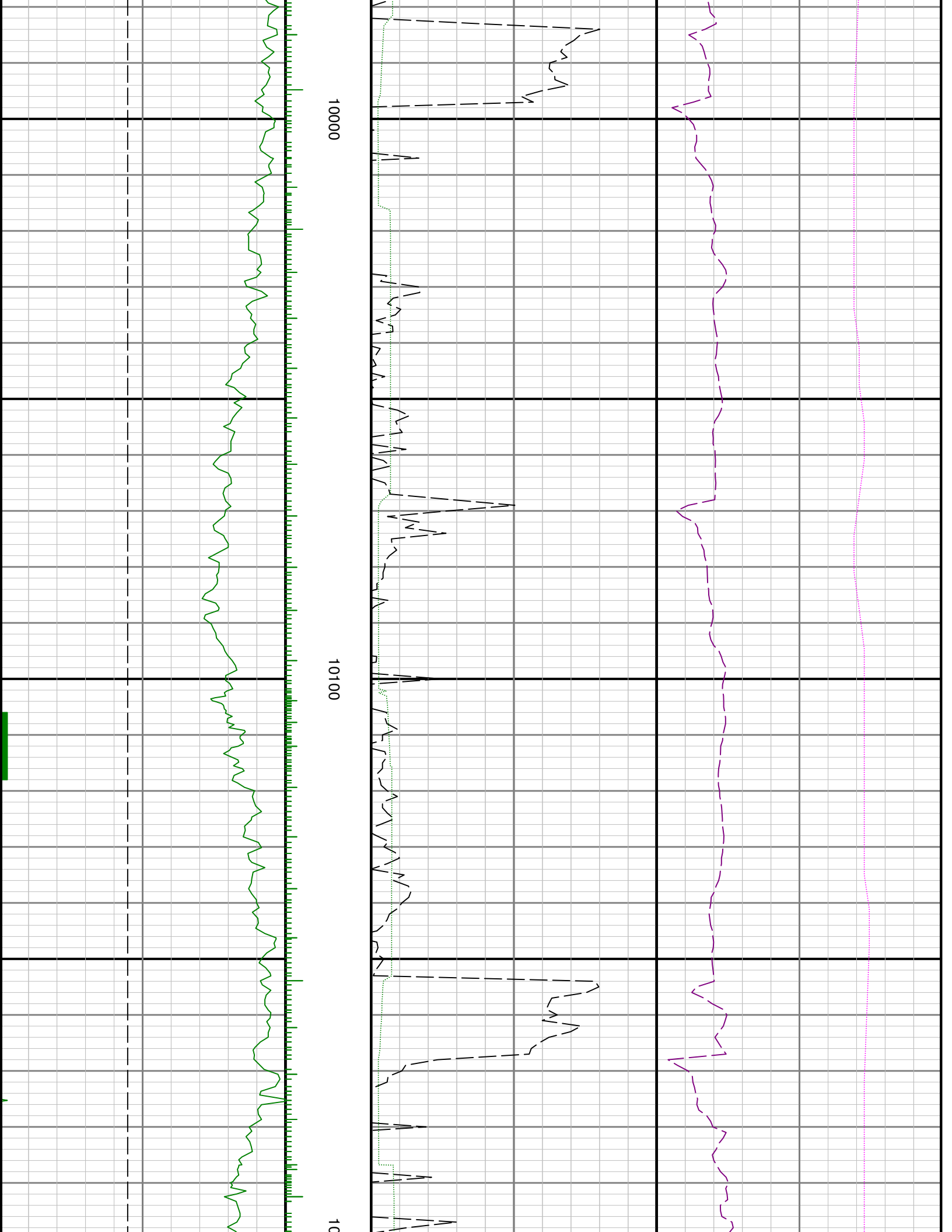
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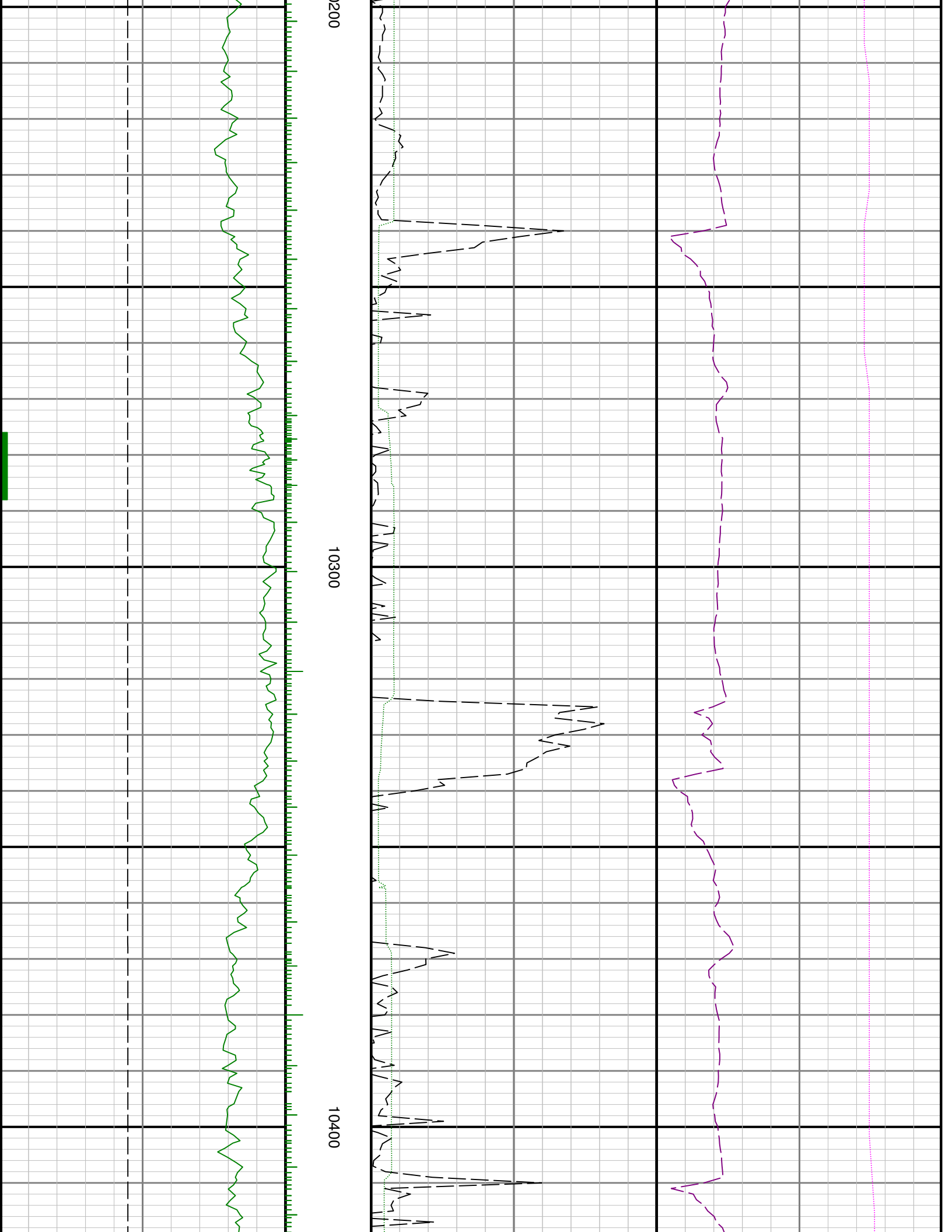


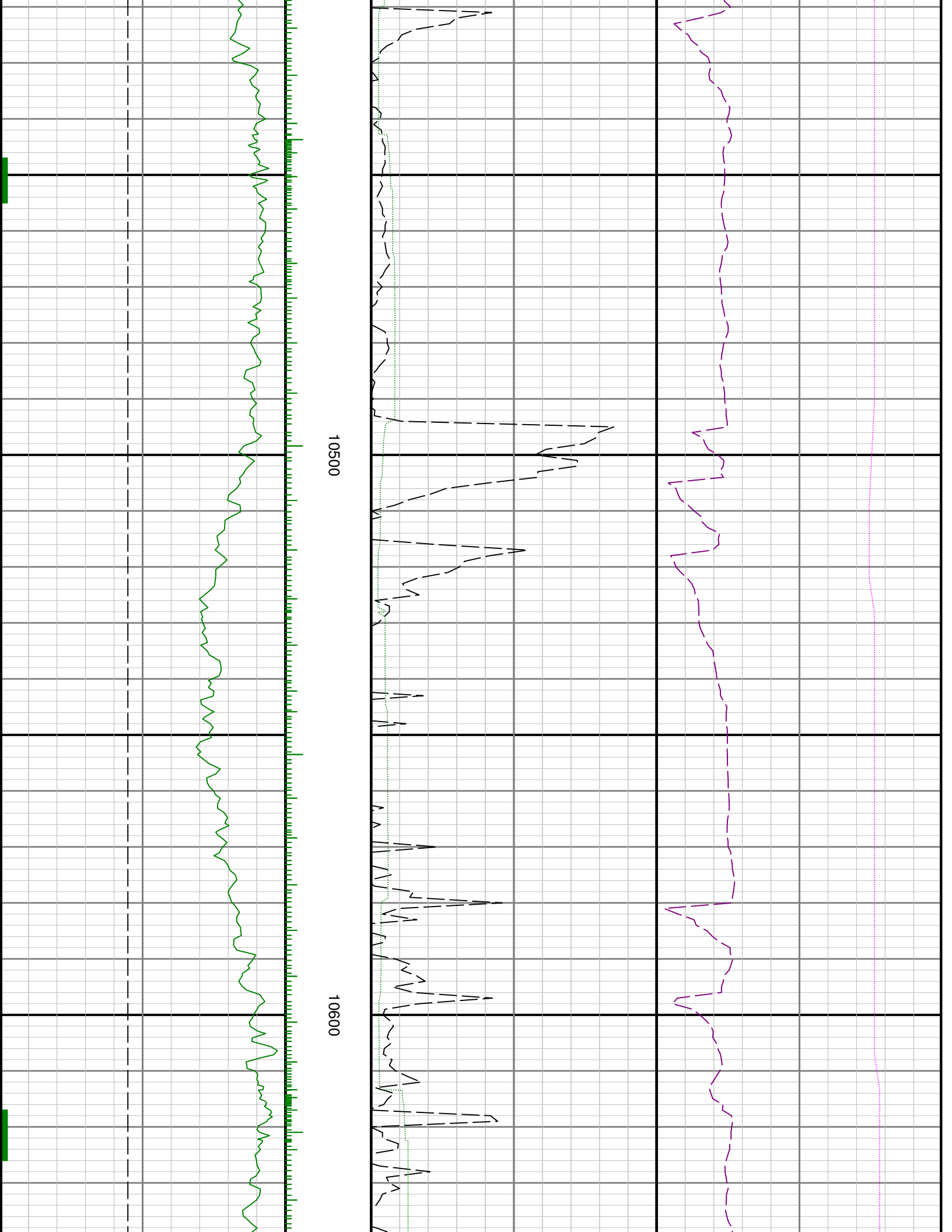


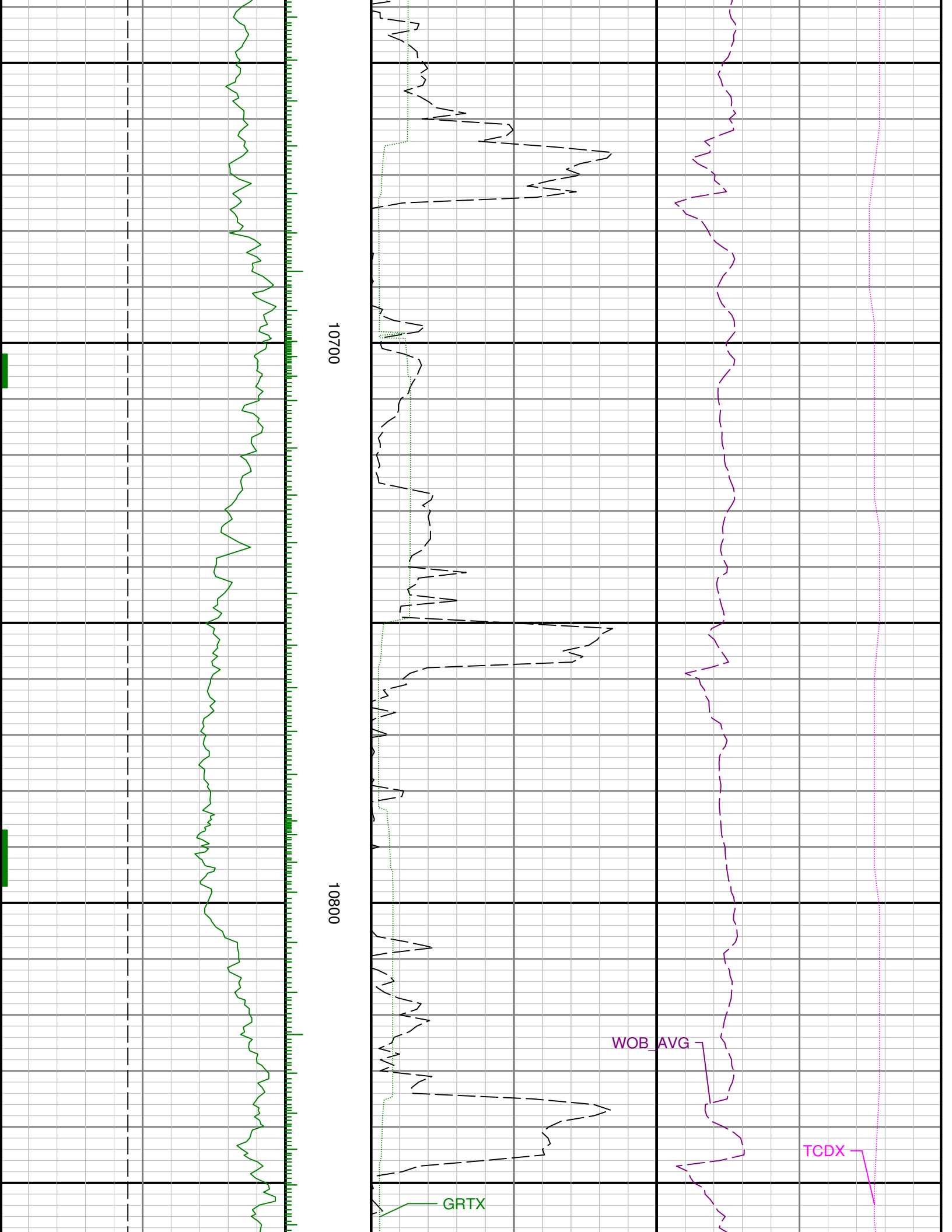


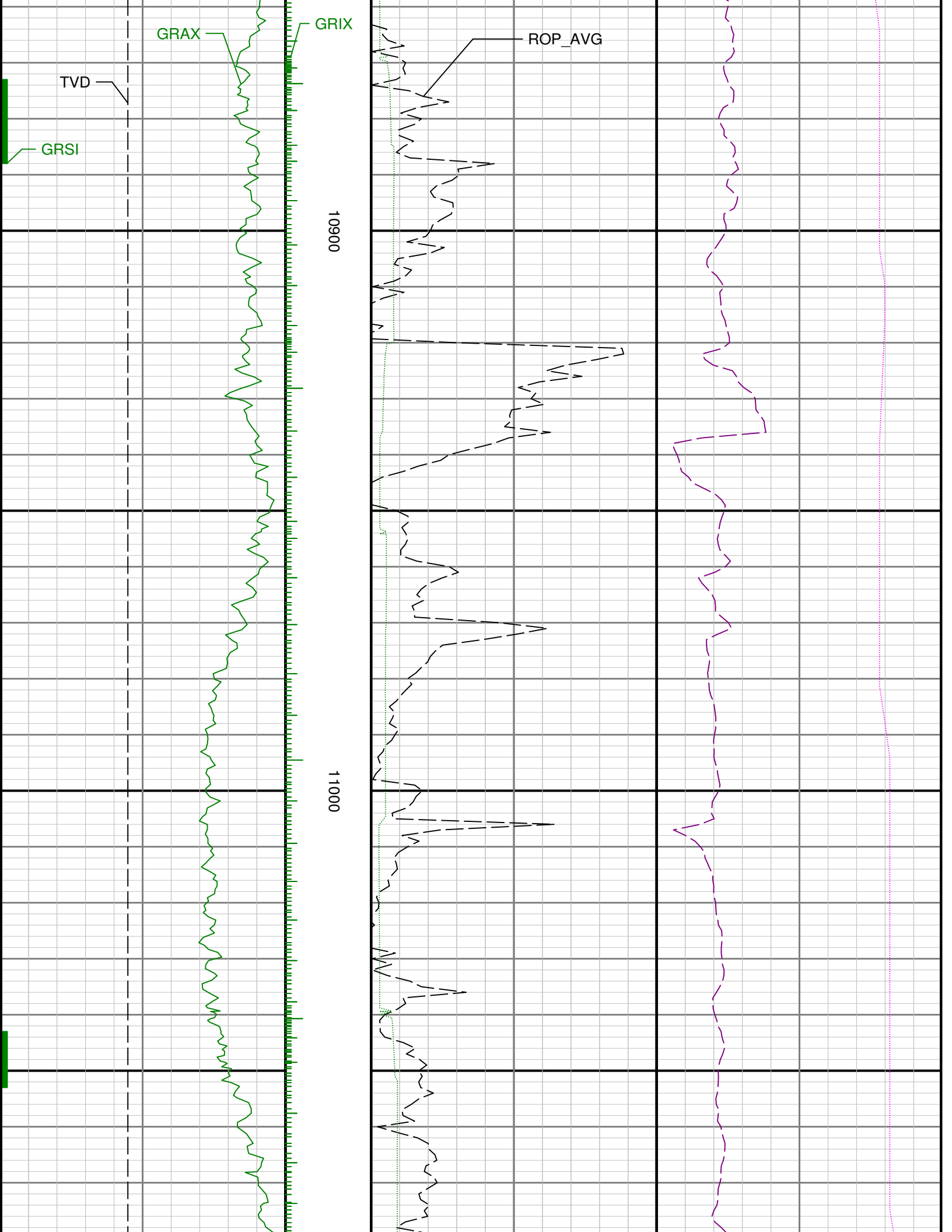


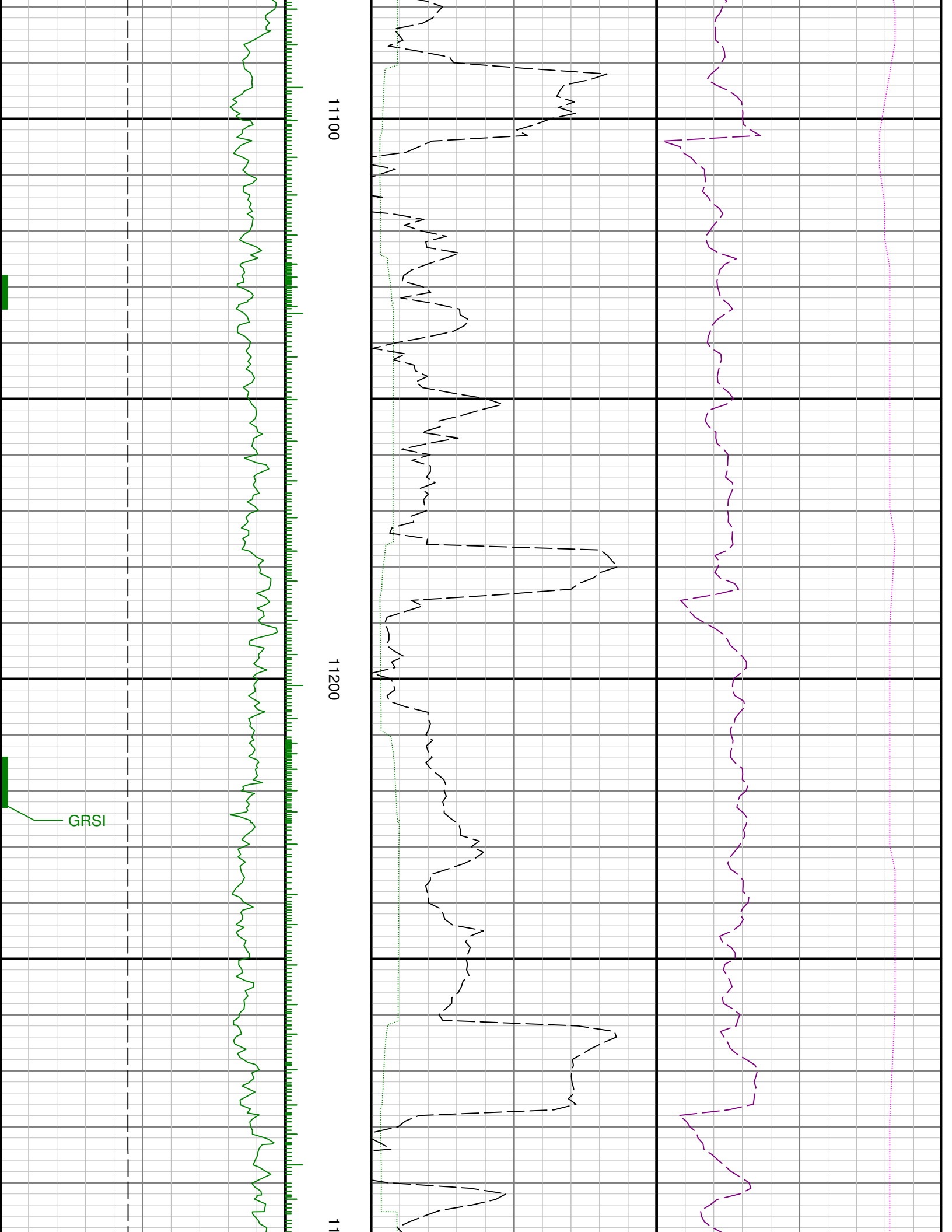


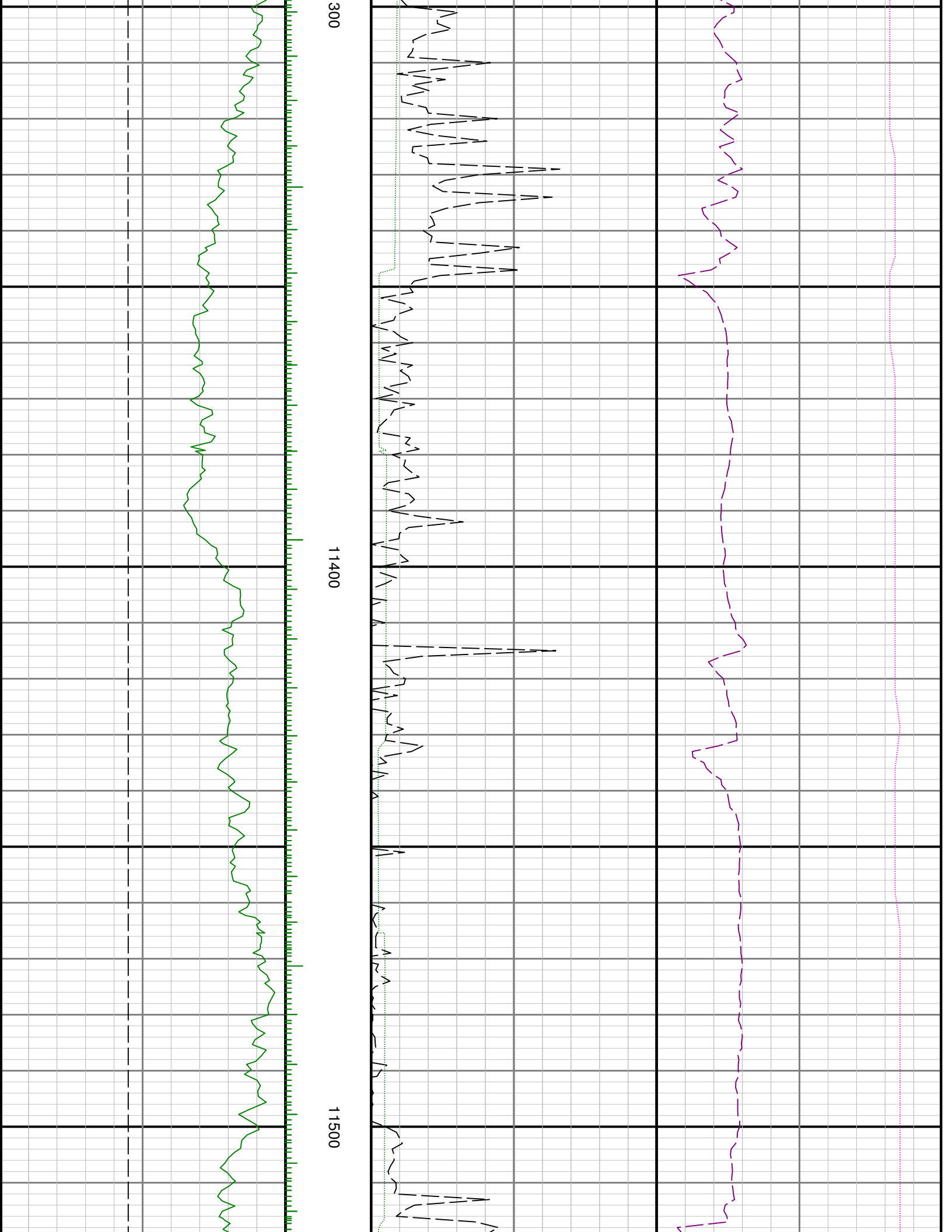


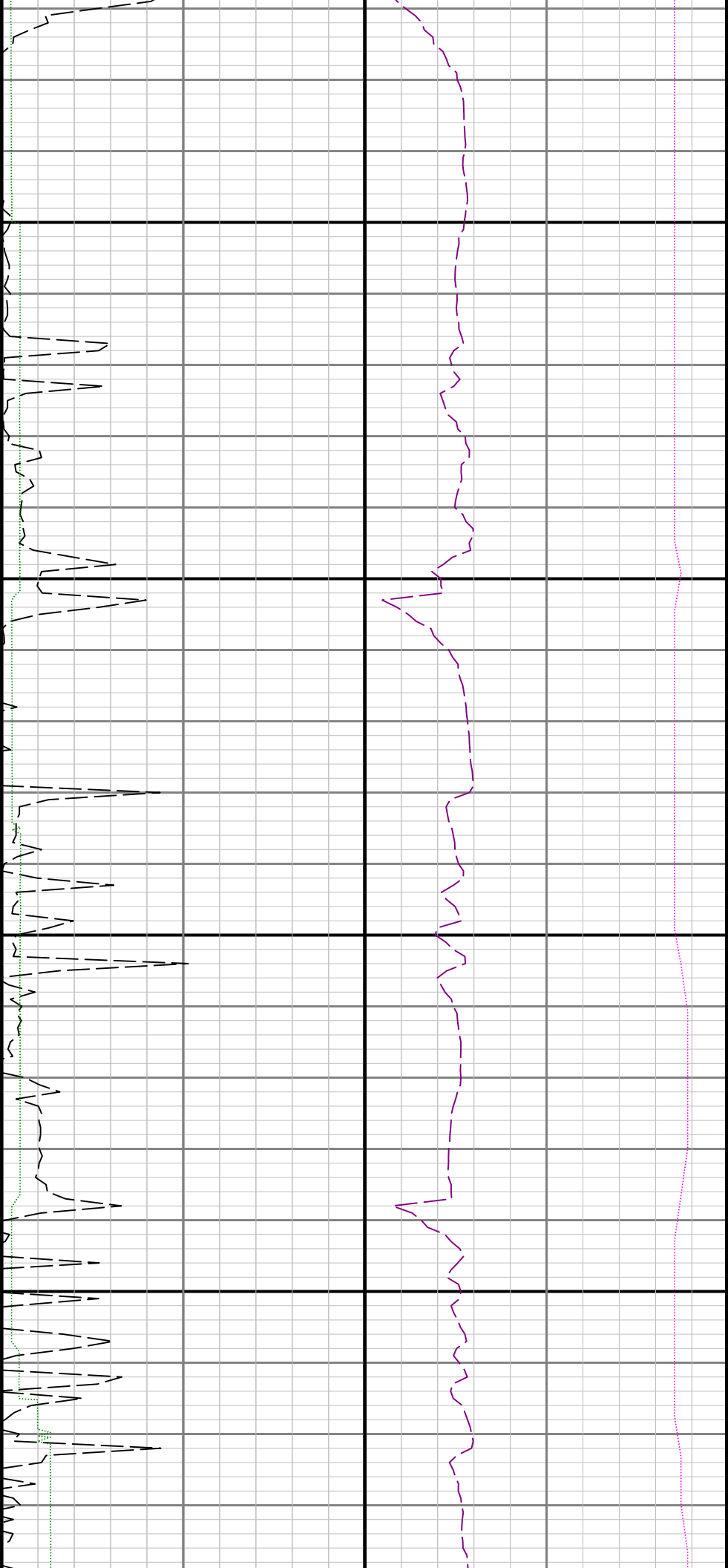












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11700

