



Realtime Logs

Natural Formation Evaluation
Gamma Ray

Scale: 1:240
MEASURED DEPTH

Company: Anadarko E&P

Well: Barefoot 30C-25HZ

Field: Weld County (Kerr McGee)

County: Weld County State: Colorado

Status:

Final Print

Surface Location:

Latitude: 40° 12' 11.052" N
Longitude: 104° 56' 37.007" W

Other Services:

API Number: 05123391890000

Section: 25

TWN: 3S

Range: 66W

Directional

Permanent Datum (P.D.): Ground Level

Elevation: 4908.00 ft.

Elevations: 17.00 ft.
N/A

Log Measured From: Kelly Bushing

17.00 ft.

Above P.D.

KB: 17.00 ft.
DF: N/A
GL: 4908.00 ft.

Depth Reference: Driller's Depth

Interval Logged

Dates

Magnetic Field Reference

Top: 6856.0 ft. Date From: 27/Aug/14 Date To: 05/Sep/14 Dip Angle: 66.91° Azi Reference North: True

Bottom: 13306.0 ft. Date To: 05/Sep/14 Spud Date: 27/Aug/14 Total Field Strength: 52633.0 nT North Correction: 8.65°

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
13,500 in.	Surface	1397.0 ft.	9,000 in.	36.00 lb/ft	Surface	1397.0 ft.
8,750 in.	1397.0 ft.	7903.0 ft.	7,000 in.	36.00 lb/ft	Surface	7893.0 ft.
6,125 in.	7903.0 ft.	13369.0 ft.				

Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Base	Surface	13369.0 ft.	13,500 in.	Surface	0.0° / 22.7°	0.2° / 253.0°
			8,750 in.	Vert / Curve	0.2 / 253.0°	84.0° / 273.9°
			6,125 in.	Lateral	84.0° / 273.9°	89.4° / 271.1°
					/	/
					/	/
					/	/
					/	/

Acquisition System Software Version

Other

Advantage	2.20U4	Rig / Contractor: Xtreme8	/ Xtreme Cold Drilling
PAITS	6.4.1.34	Job No: 6544016	
		District / Unit: RMD	/ 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	
							(ft.)	(ft.)	(ft.)	(ft.)			
2	3	3	8.750	PDC	N/A	Mud Motor	6856.0	7854.0	6856.0	7903.0	30/Aug/2014 22:30	31/Aug/2014 14:29	16.47
3	4	4	6.125	PDC	N/A	Mud Motor	7854.0	12177.0	7903.0	12241.0	02/Sep/2014 04:30	03/Sep/2014 10:25	30.5
4	5	5	6.125	PDC	N/A	Mud Motor	12177.0	13306.0	12241.0	13369.0	04/Sep/2014 08:17	04/Sep/2014 16:54	11.82

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Kevin Sheridan	27 Aug 14	05 Sept 14	Shirley Arimah	27 Aug 14	05 Sept 14			

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+ (%)
30 Aug 14	14:00	2	7200.0	Water Based	8.9	37	7.6	N/A	1/93	Active Pit	1500	N/A
02 Sept 14	21:00	3	11000.0	Water Based	8.5	28	7.9	N/A	-/99	Active Pit	2800	N/A
04 Sept 14	21:00	4	4026.0	Water Based	8.5	27	7.0	N/A	-/99	Active Pit	1800	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft Avg	API
GRIX	Gamma Ray Density	Points
ROP_AVG	Rate of Penetration, 3.0 ft Avg	ft/hr
TCDX	Downhole Temperature	deg F
TVD	True Vertical Depth	ft.
WOB_AVG	Surface Weight On Bit	klbf

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
2	SRIG	12673191	Gamma	50.30	6.750	2.730
2	DIR	12566669	Directional	53.67	6.750	2.730
3	DIR	12456788	Directional	66.42	4.750	2.750
3	SRIG	12613300	Gamma	63.04	4.750	2.750
4	DIR	12456788	Directional	66.39	4.750	2.750
4	SRIG	12613300	Gamma	63.01	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

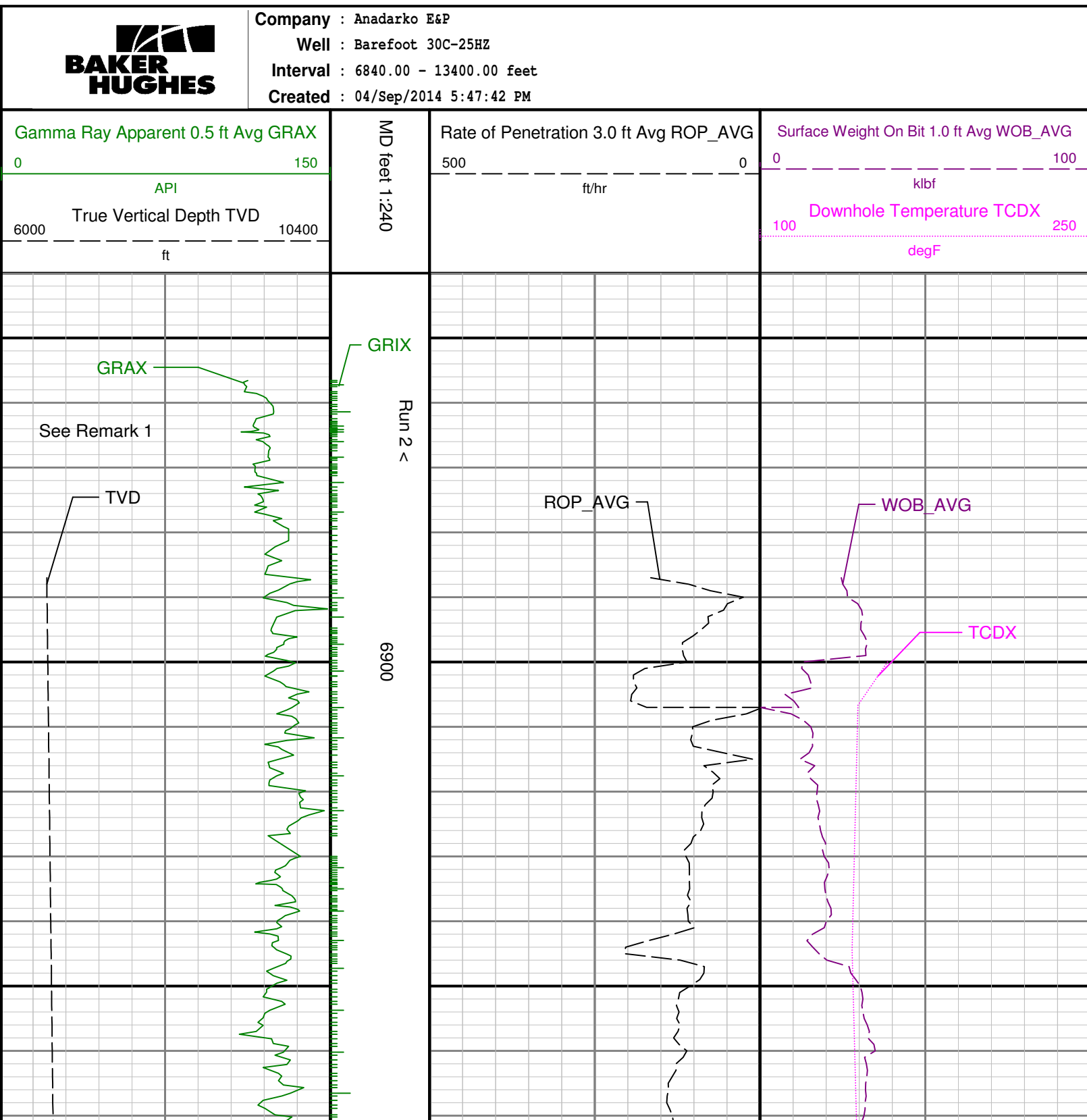
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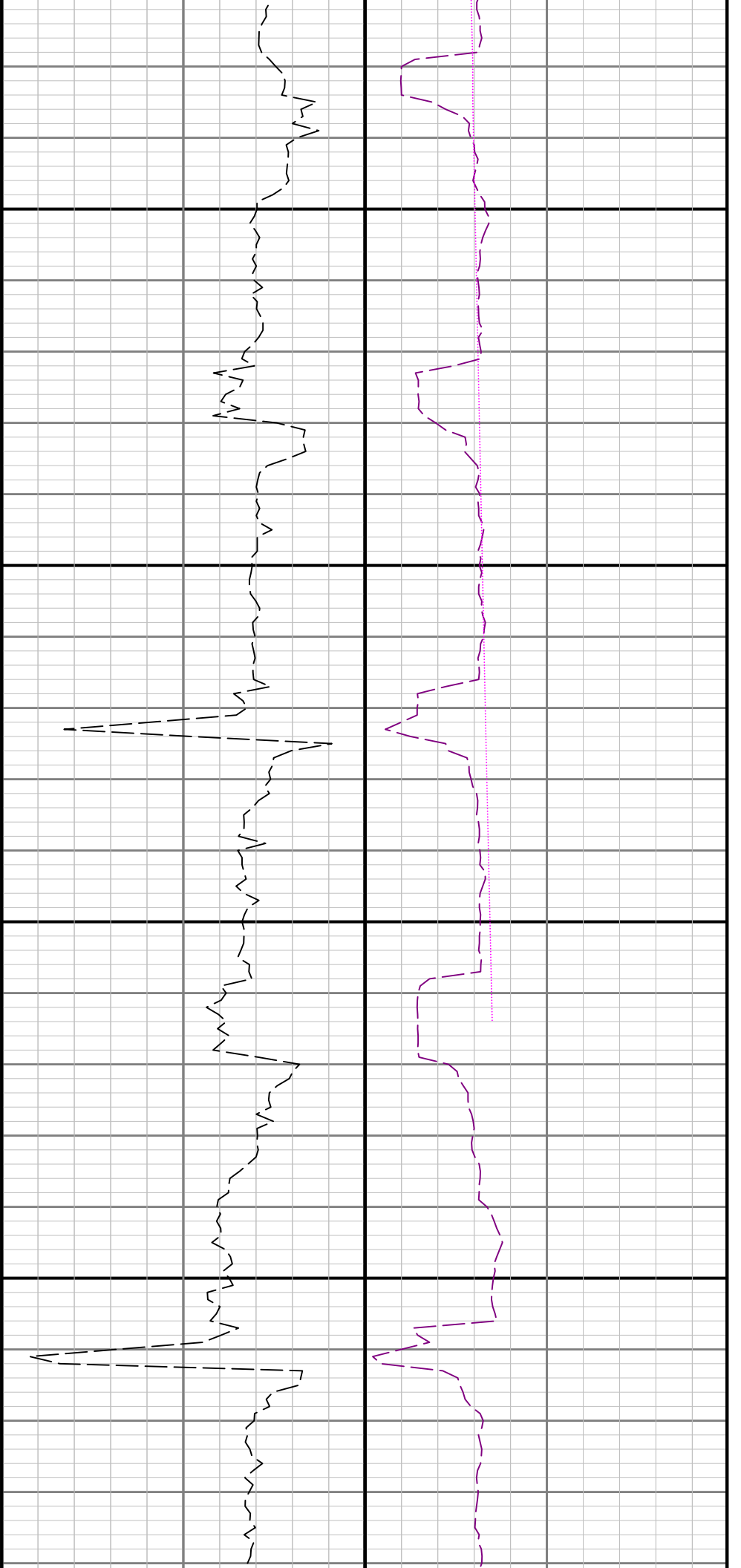
1) Baker Hughes INTEQ run 2 utilized a 6.5 inch NaviGamma (Gamma Ray and Directional) tool behind a 8 3/4 inch bit and steerable assembly from 1397 to 7903 ft. MD (1397 to 7242 ft. TVD).
2) Baker Hughes INTEQ run 3 and 4 utilized a 4.75 inch NaviGamma (Gamma Ray and Directional) tool behind a 6 1/8 inch bit and steerable assembly from 7903 to 13369 ft. MD (7242 to 7249ft. TVD).

Remarks

Number	Measured Depth (ft.)	Hole Section (in.)	LWD Run No.	Remark

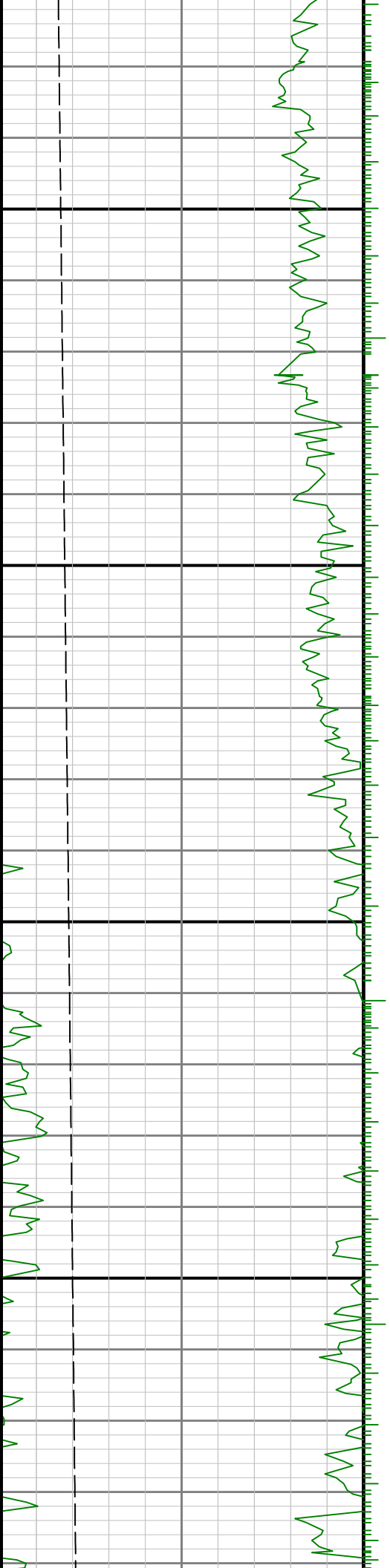
1	6856	8.750	2	The interval from surface to 6856 ft MD (0 to 6578 ft TVD) was not logged due to gamma logging services at the start of the curve.
2	7854	8.750	3	The interval from 7854 to 7903 ft MD (7237 to 7242 ft TVD) was logged up to 30 hours after drilling due to tripping out of the hole for casing and cement operations. Gamma data is attenuated due to logging behind casing.
3	12177	6.125	4	The interval from 12177 to 12241 ft MD (7240 to 7240 ft TVD) was logged up to 22 hours after drilling due to tripping out of the hole to swap out bha.
4	13306	6.125	4	The interval from 13306 to 13369 ft MD (7240 to 7250 ft TVD) was not logged due to sensor offsets to bit at TD.

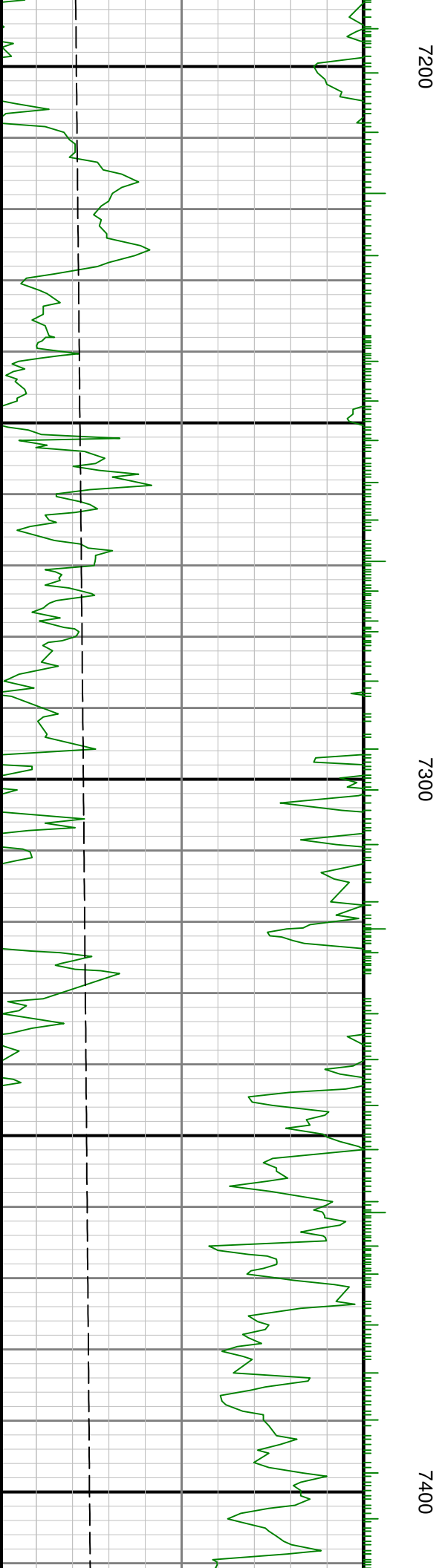
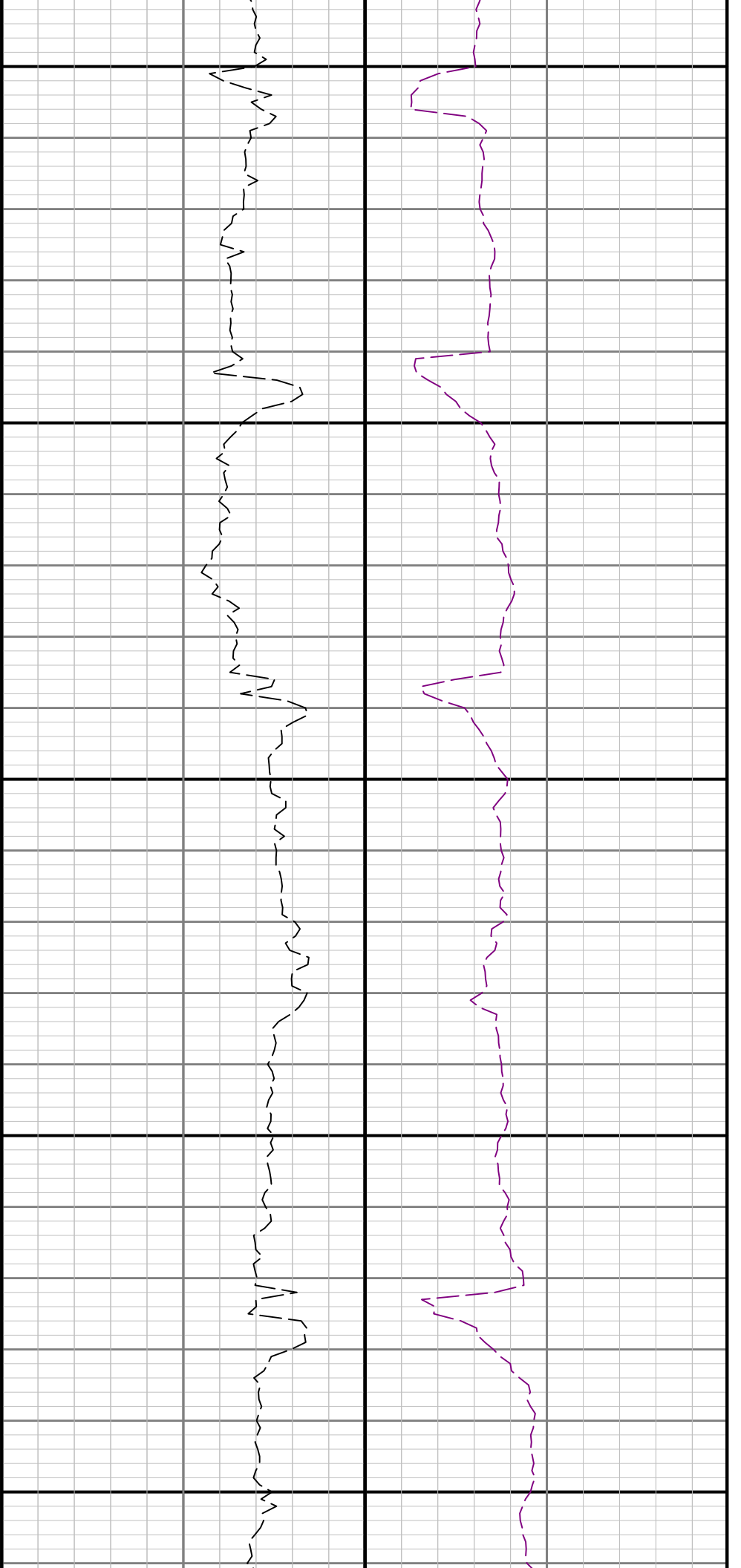


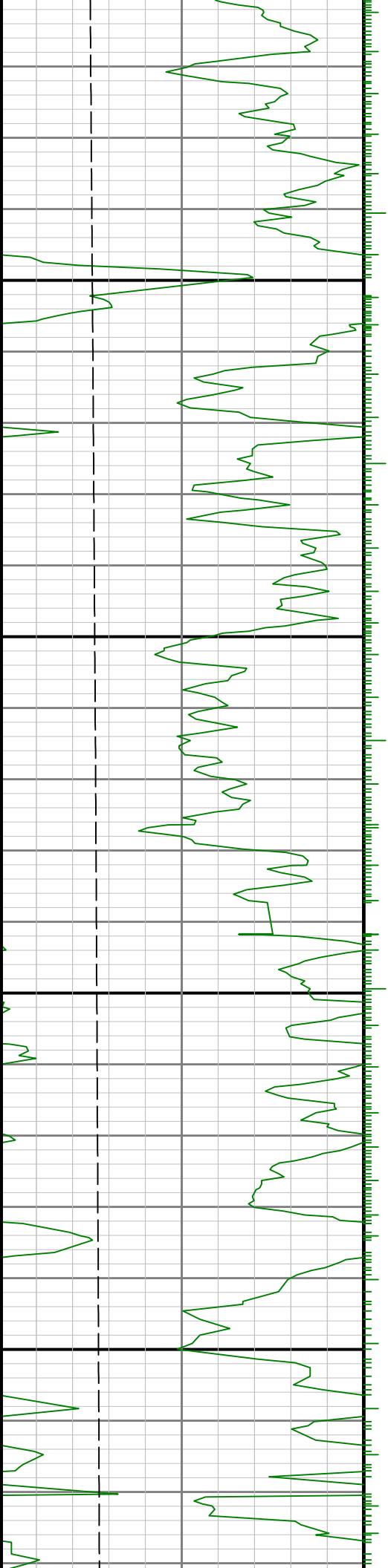


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7100

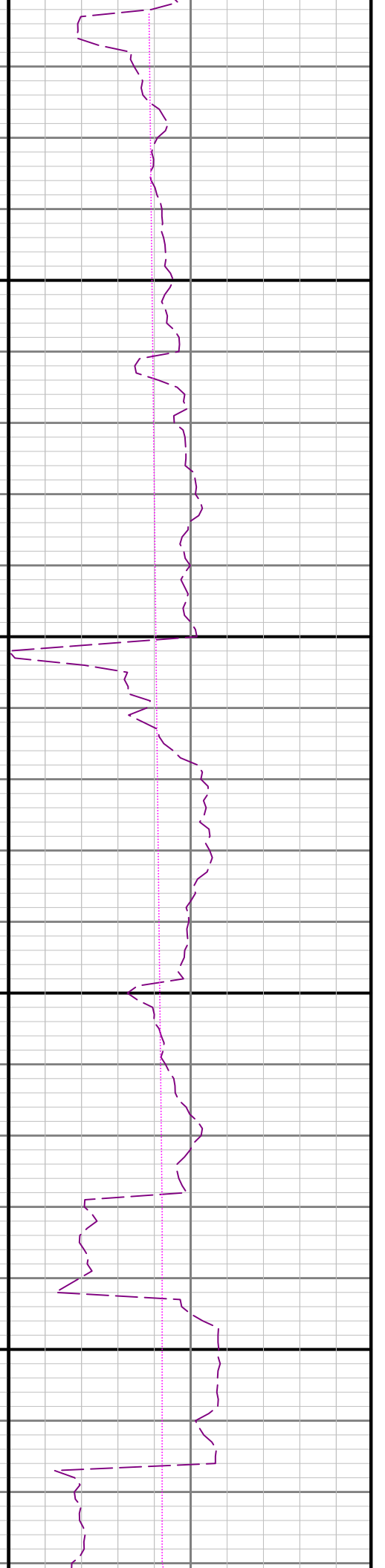
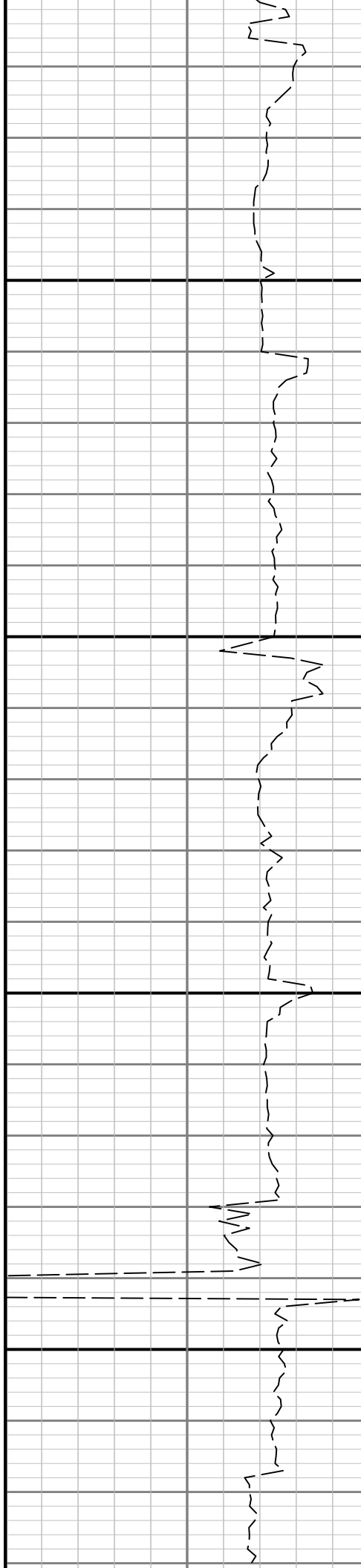


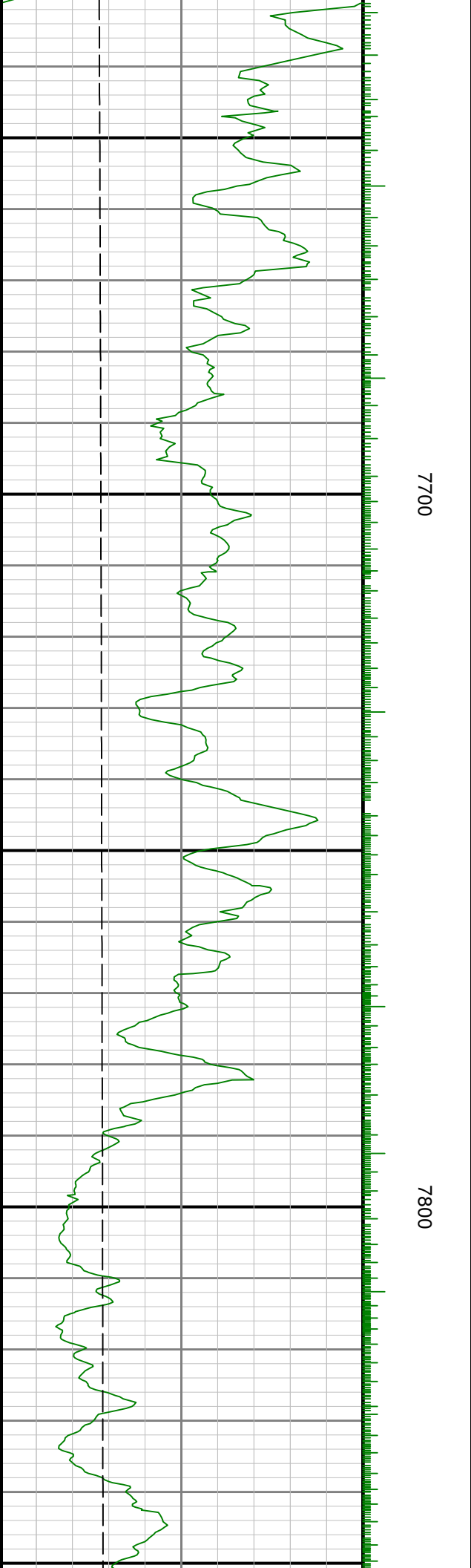
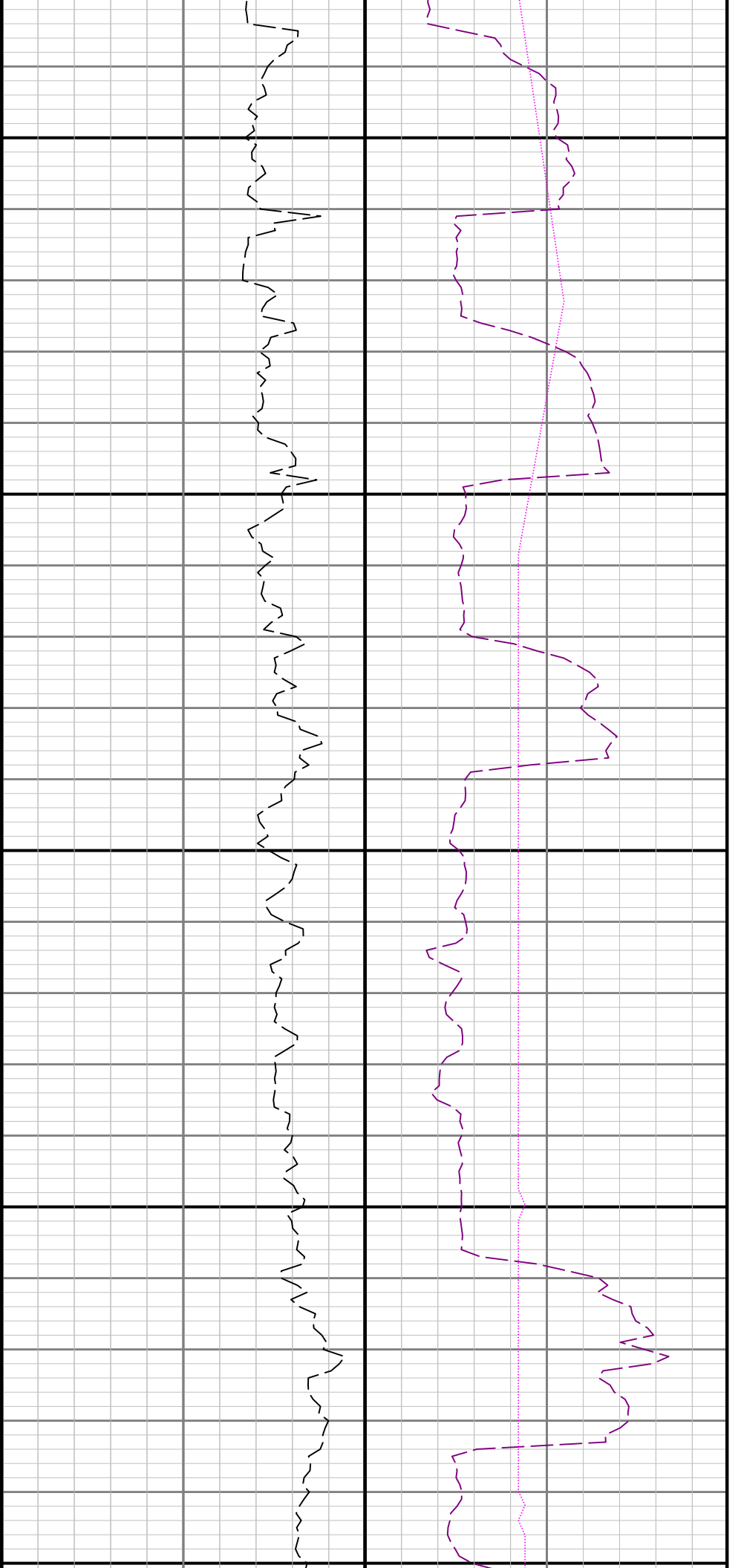


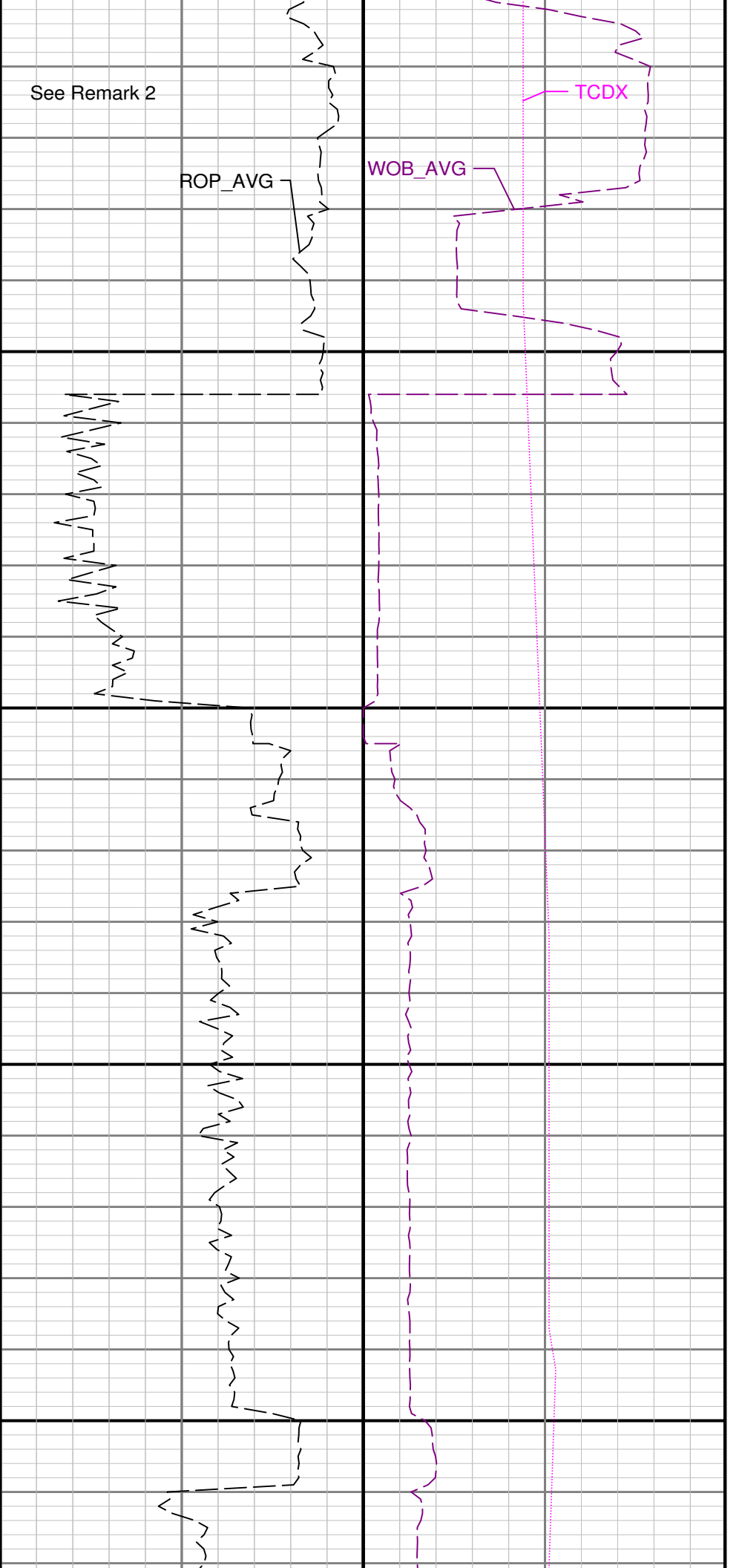
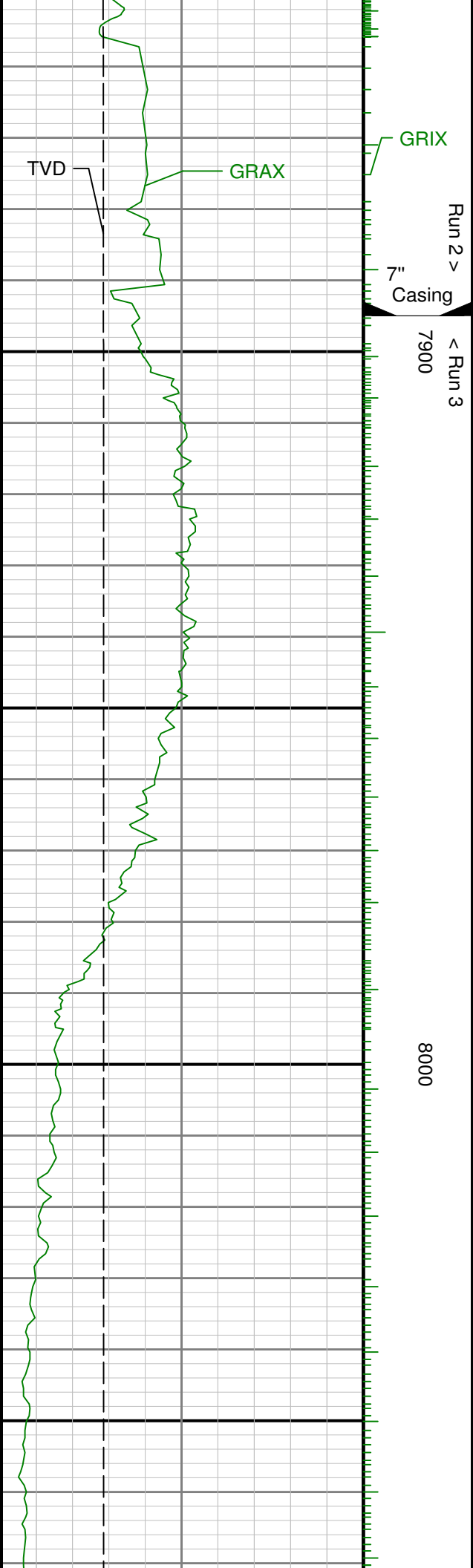


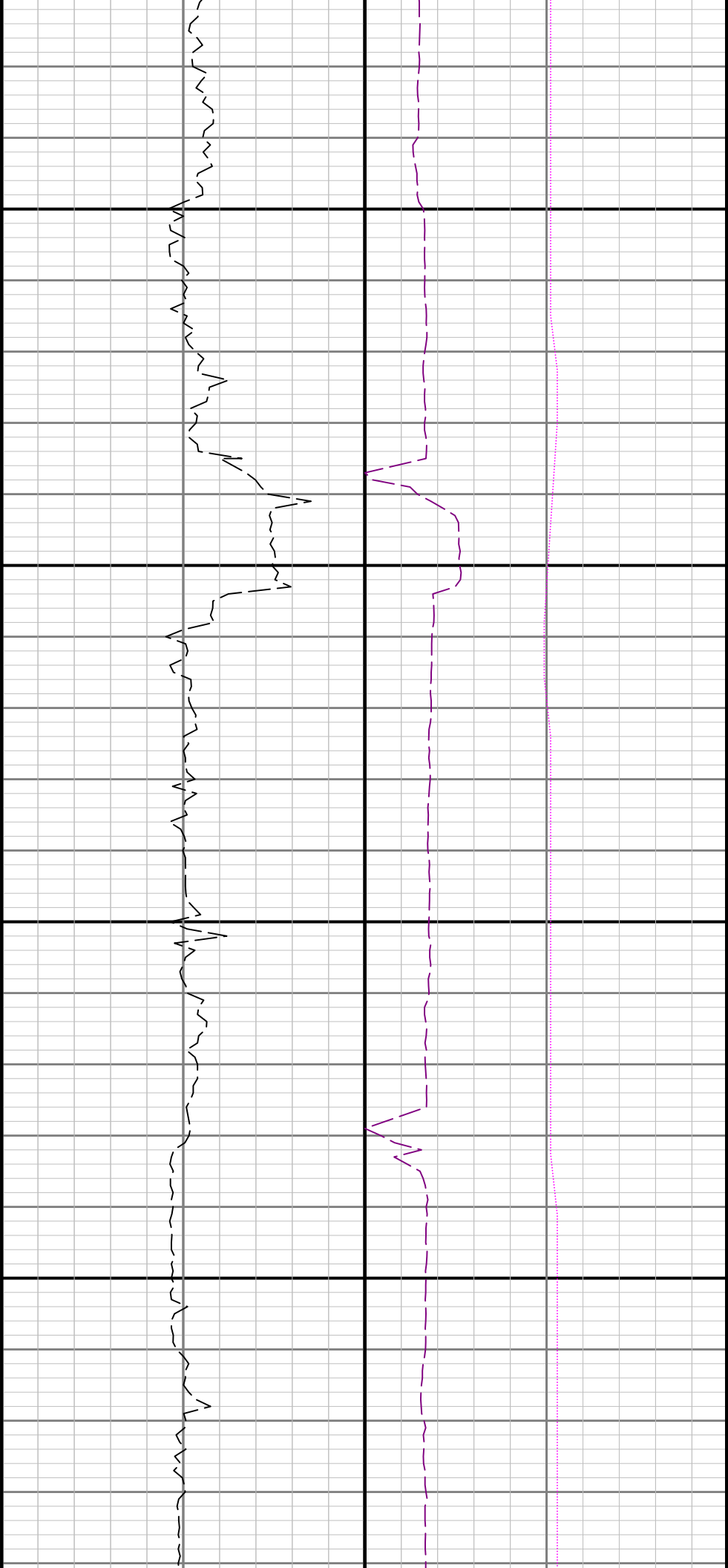
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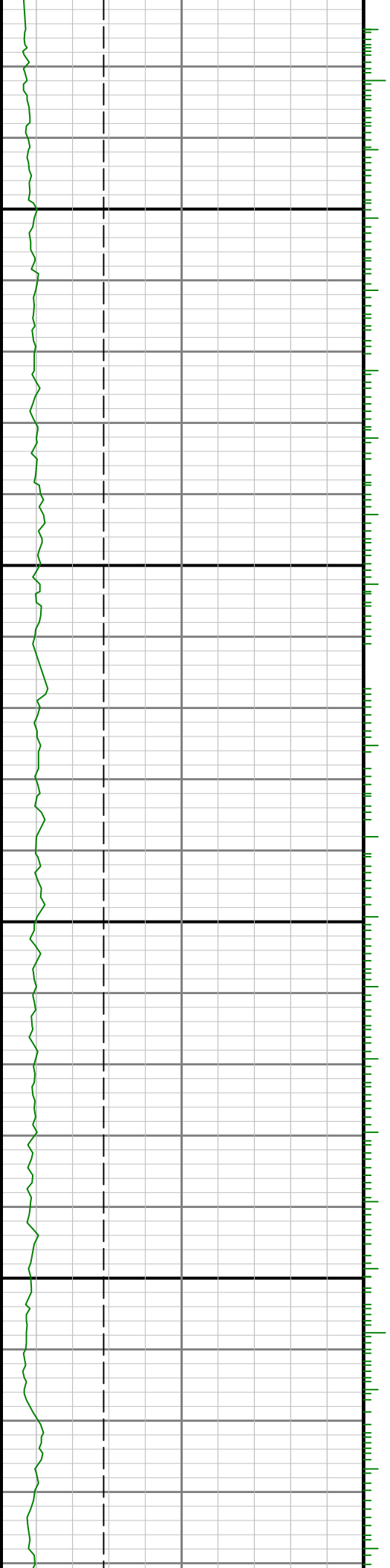


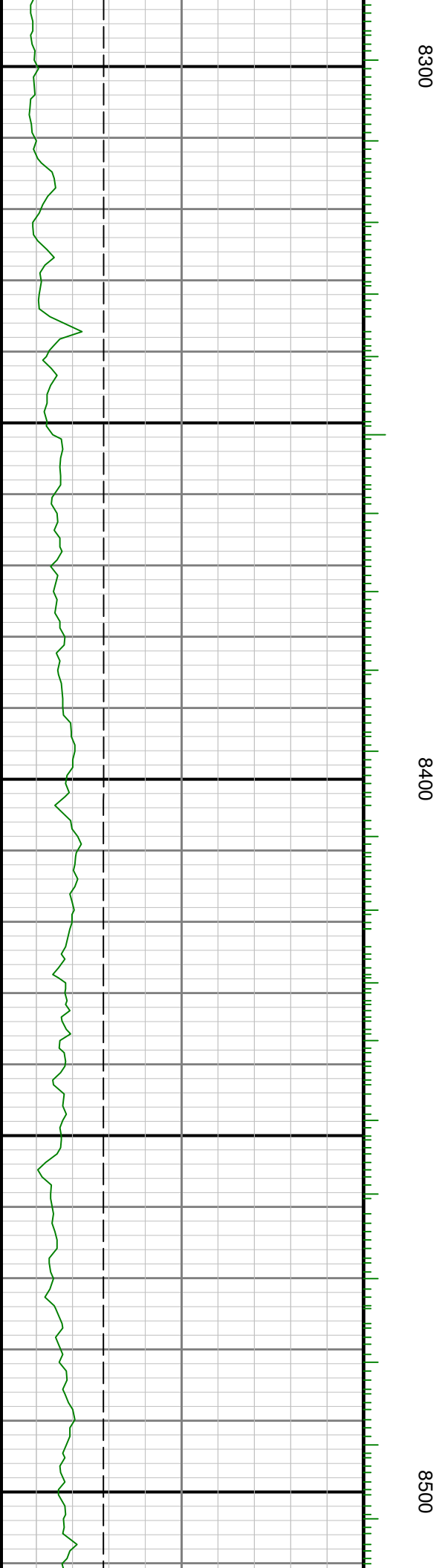
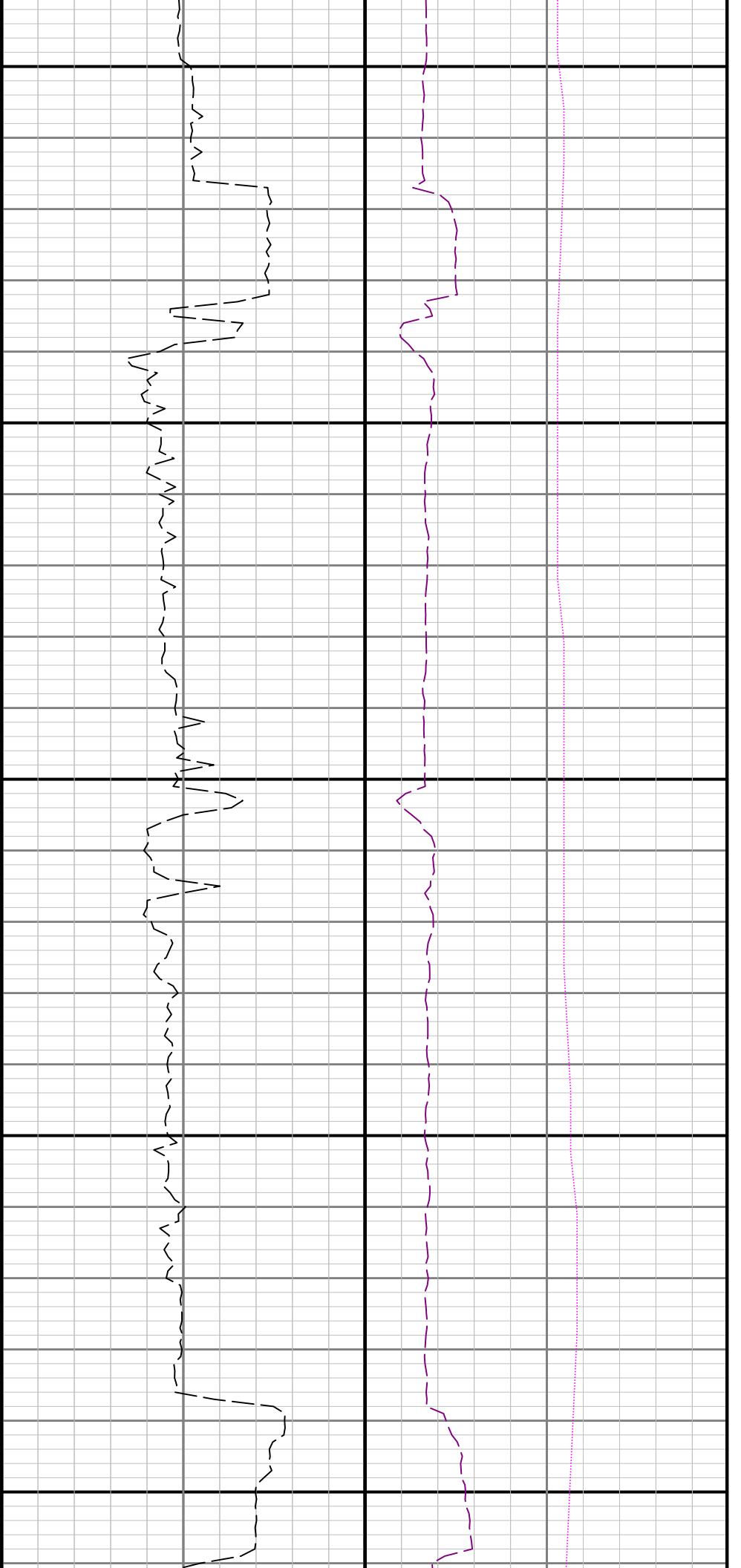


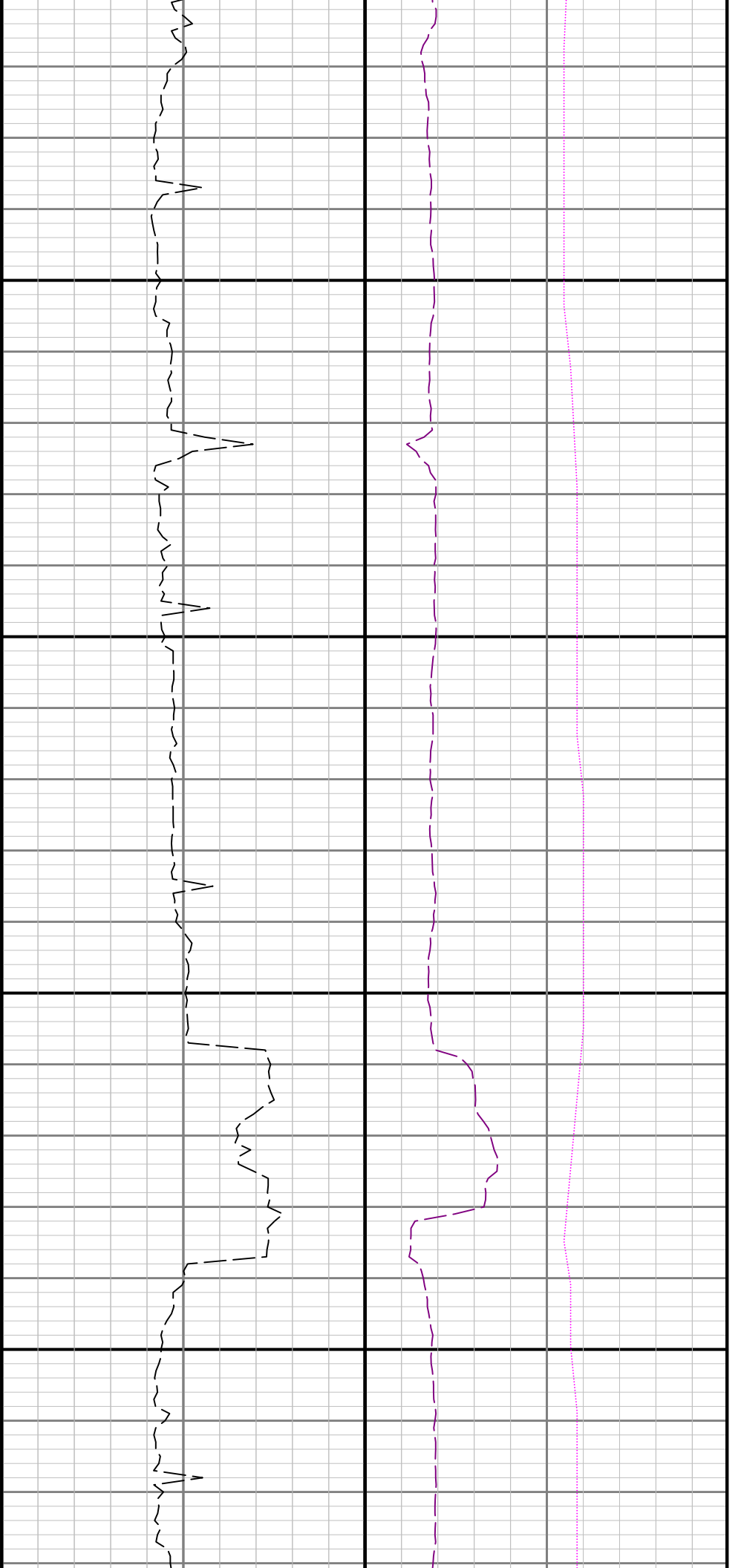


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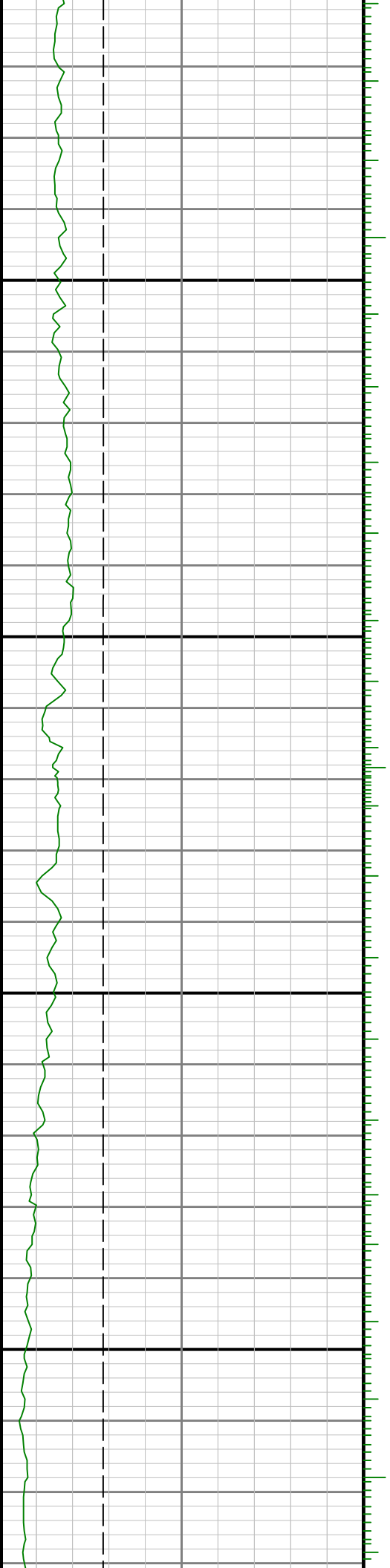


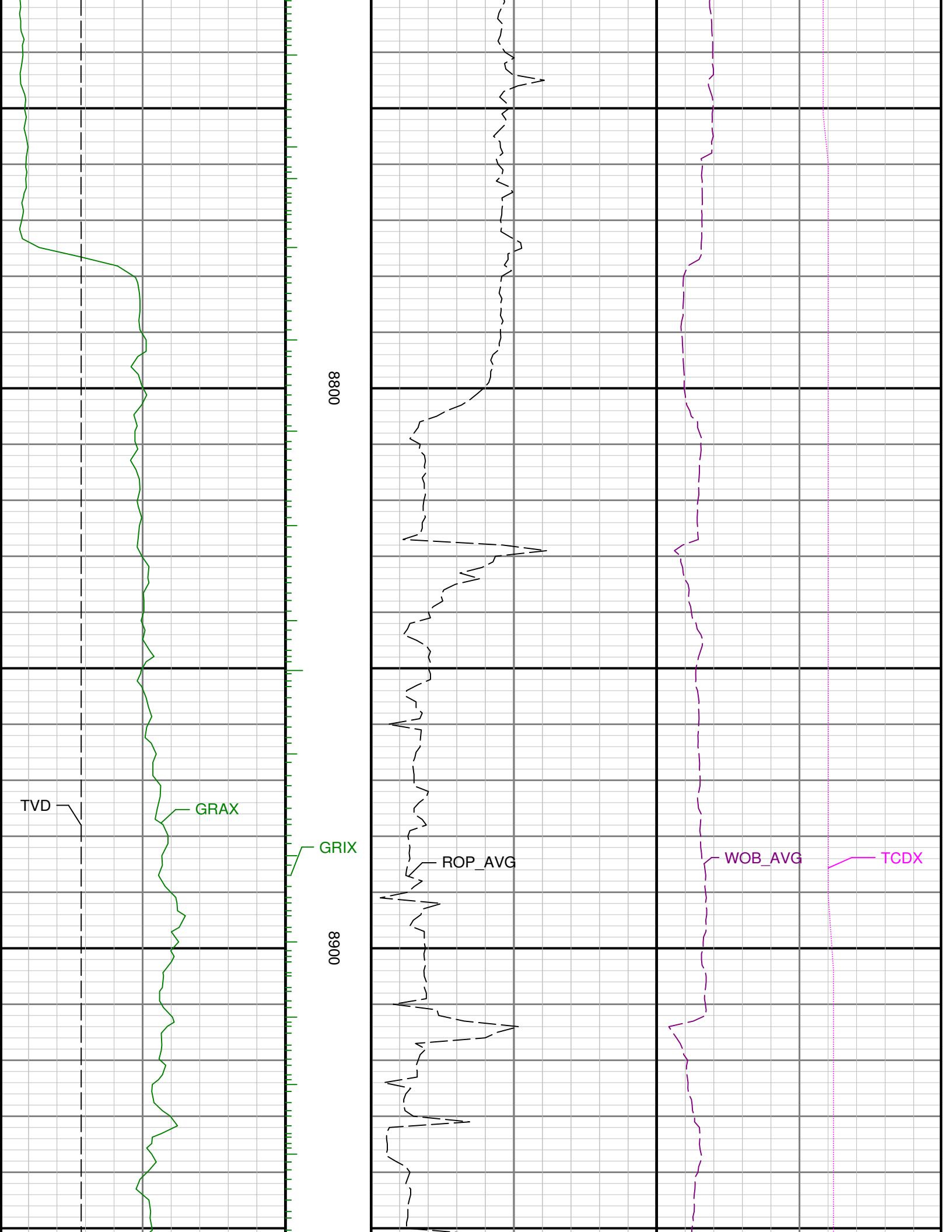


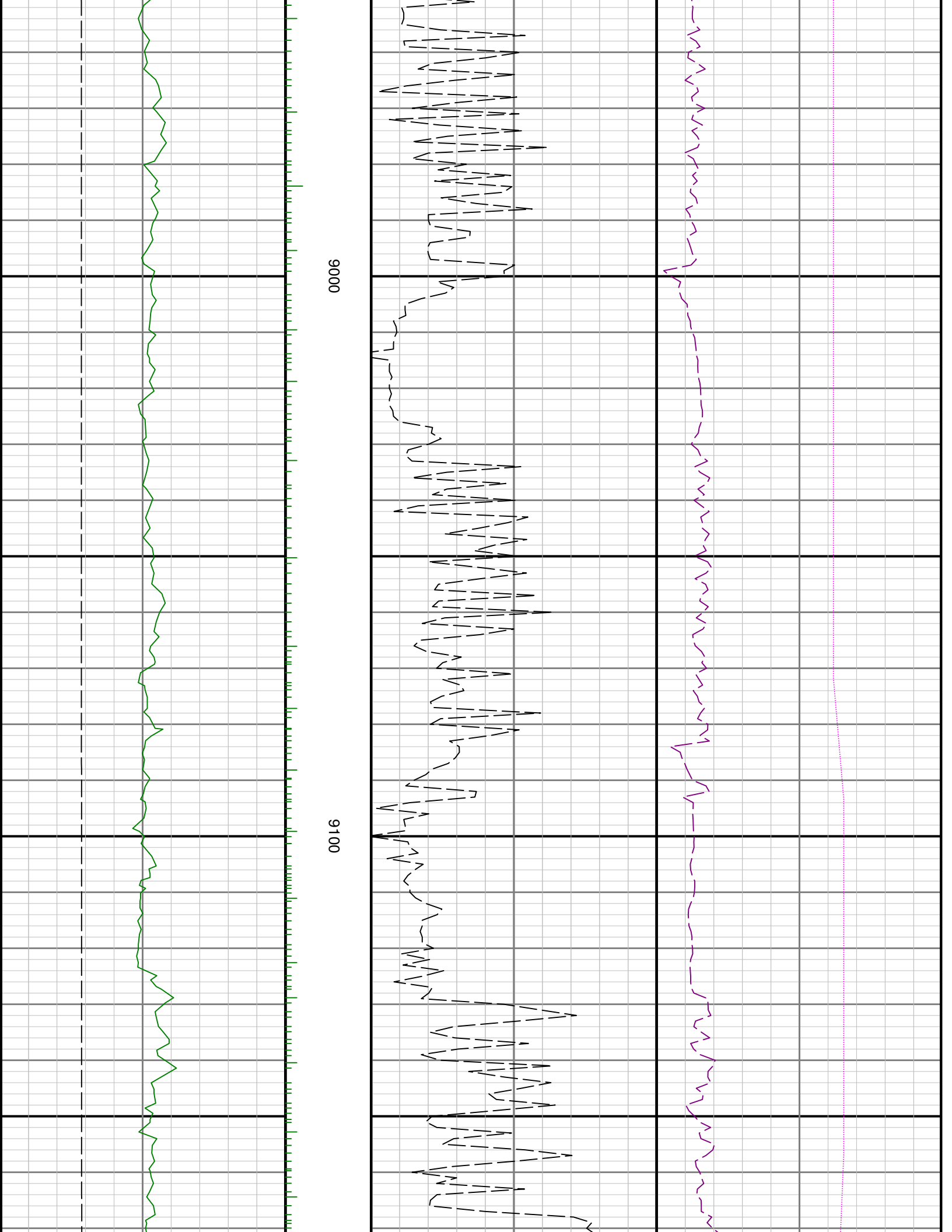


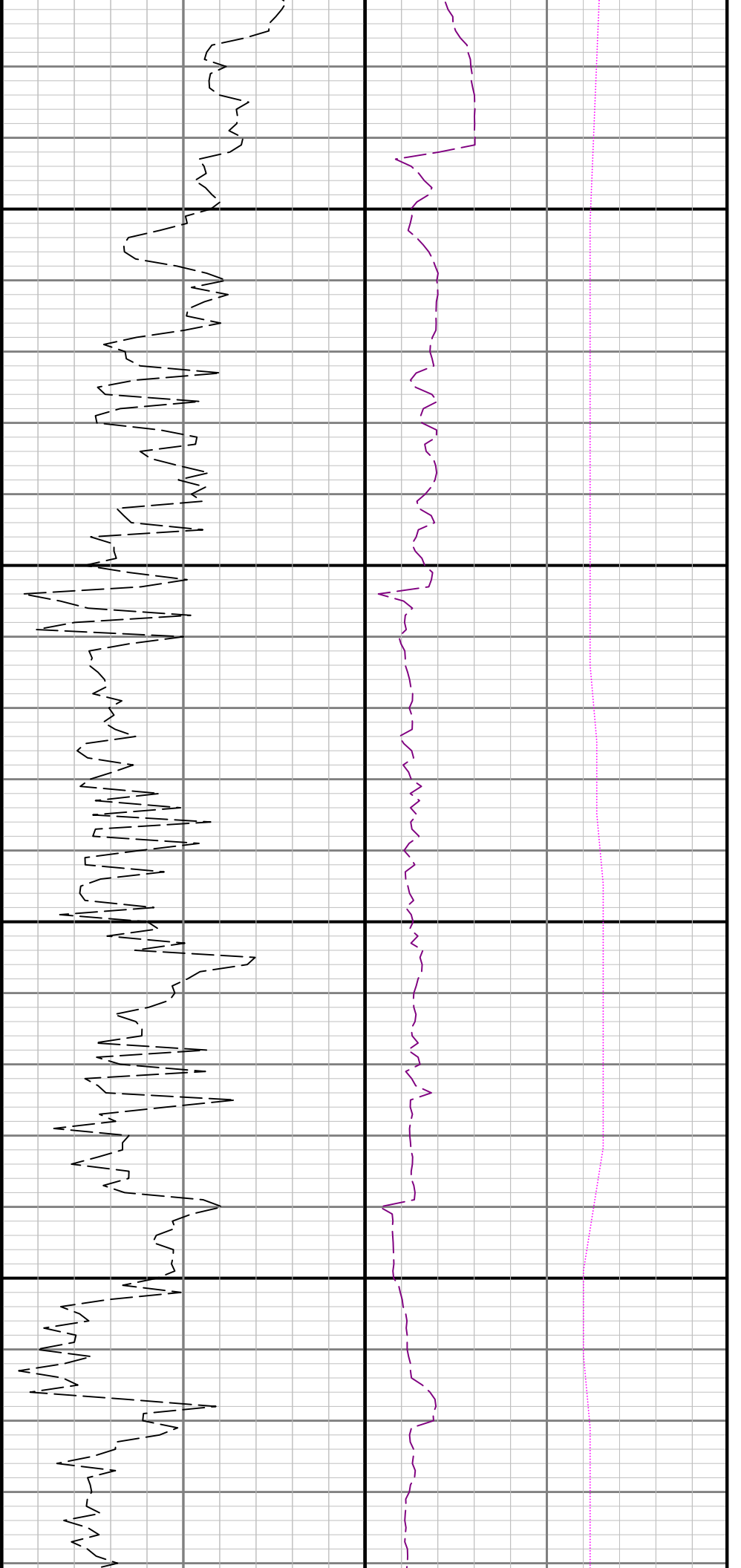
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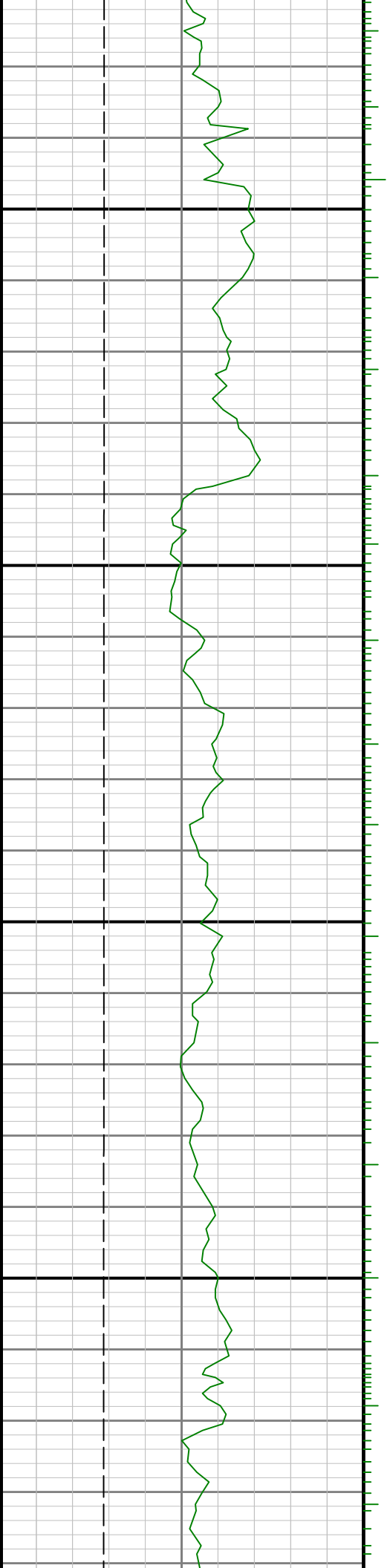


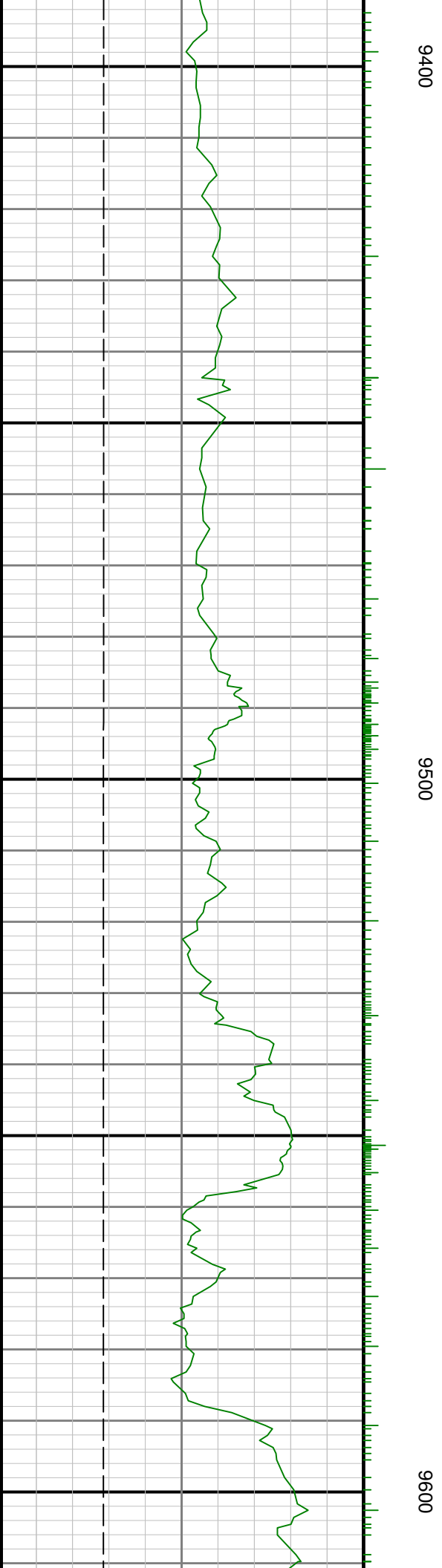
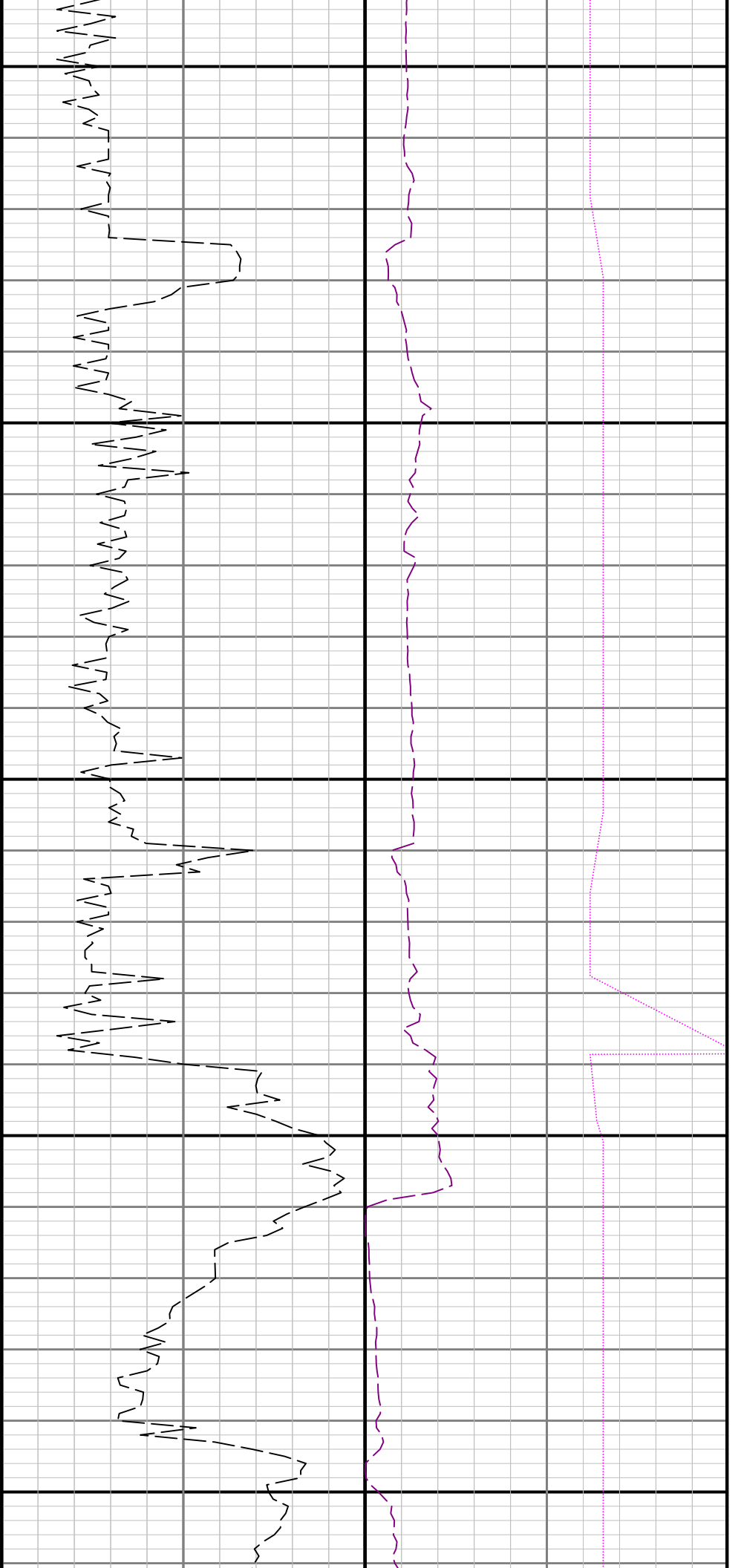


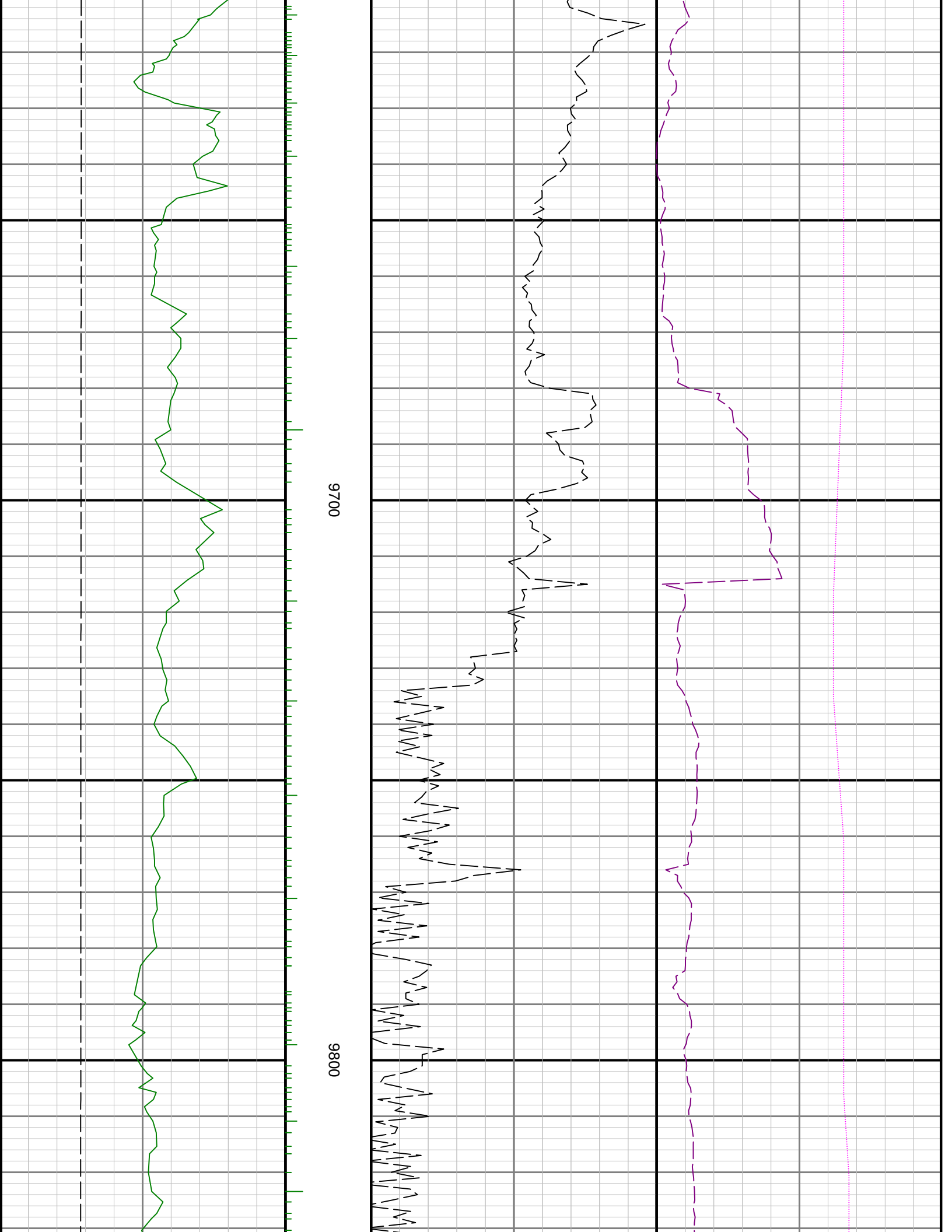


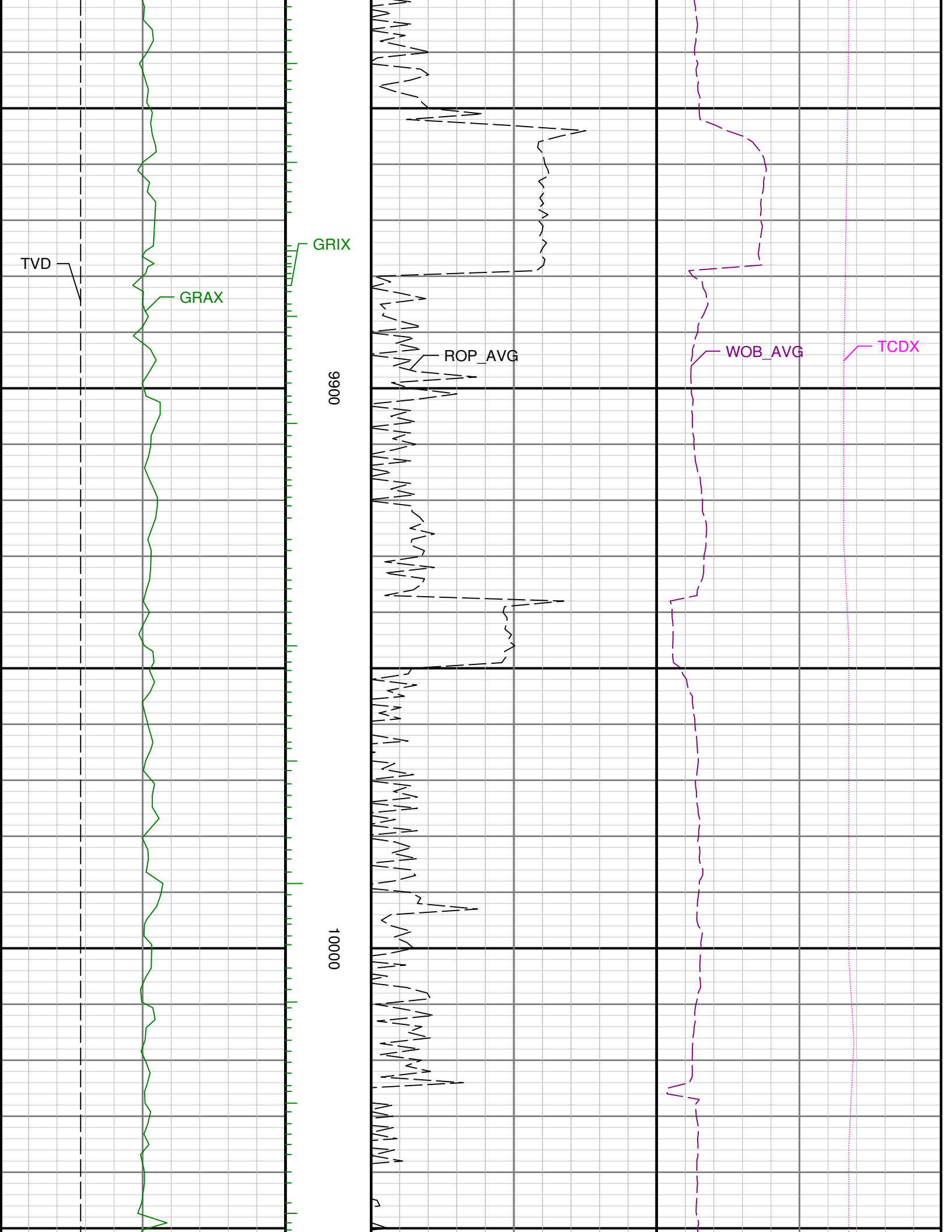
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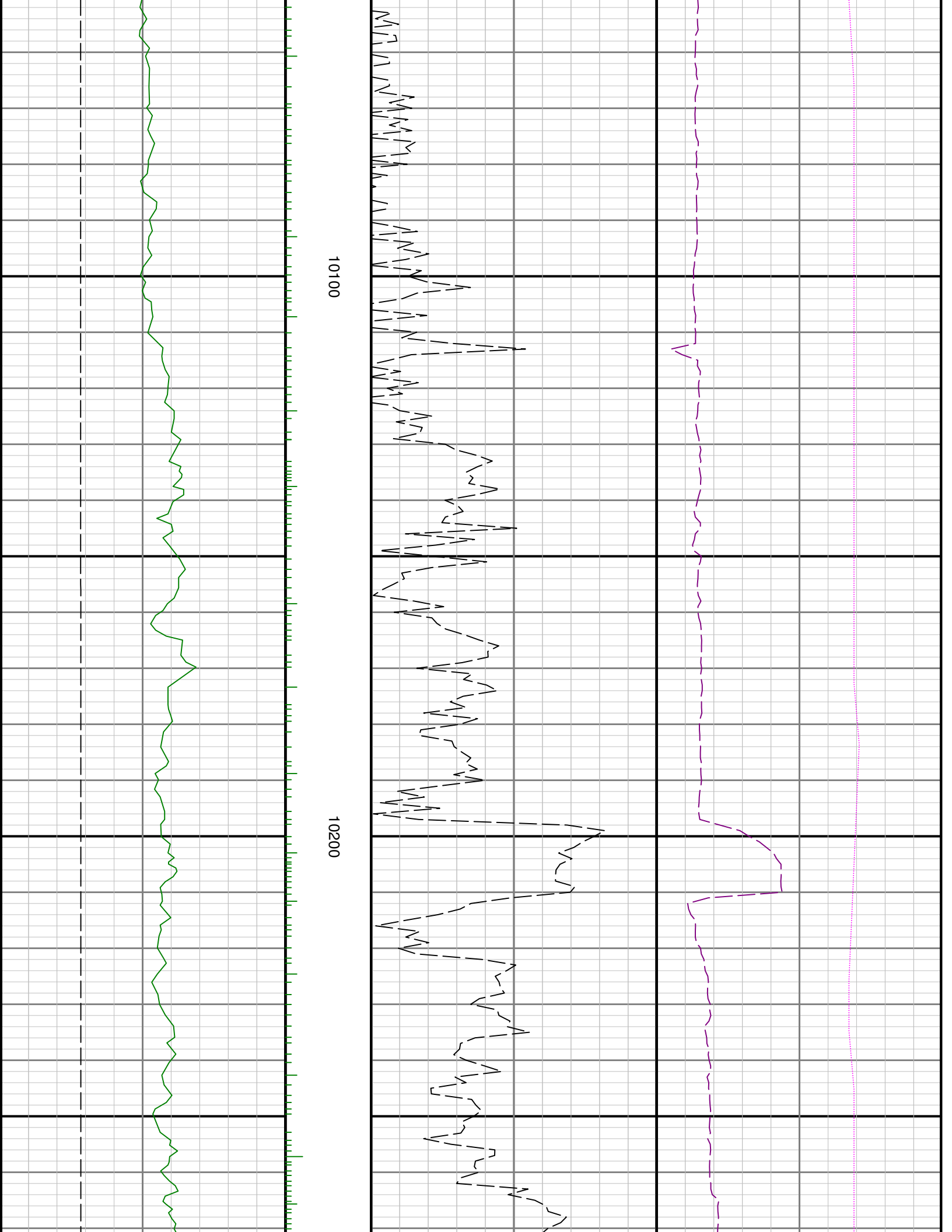
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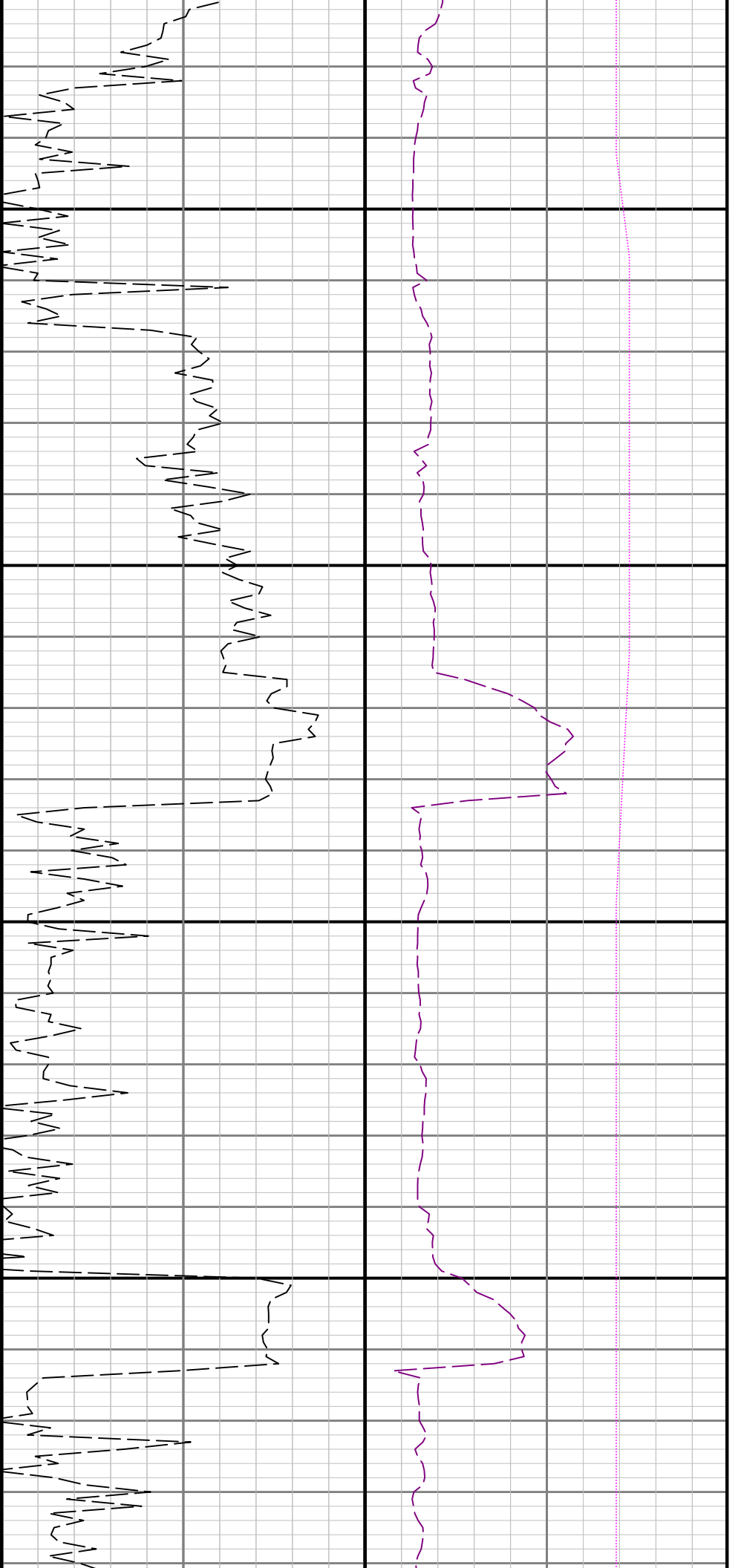






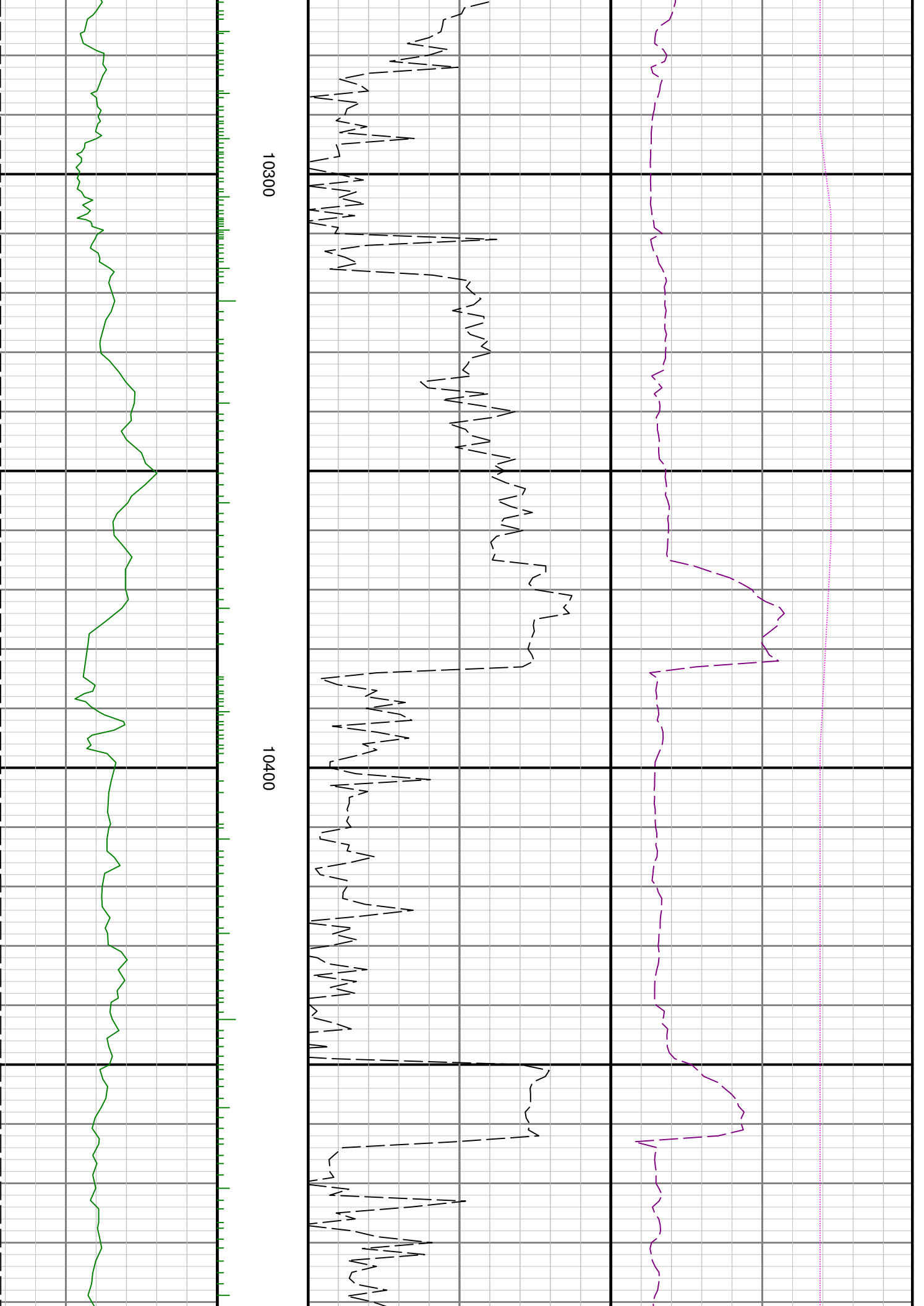
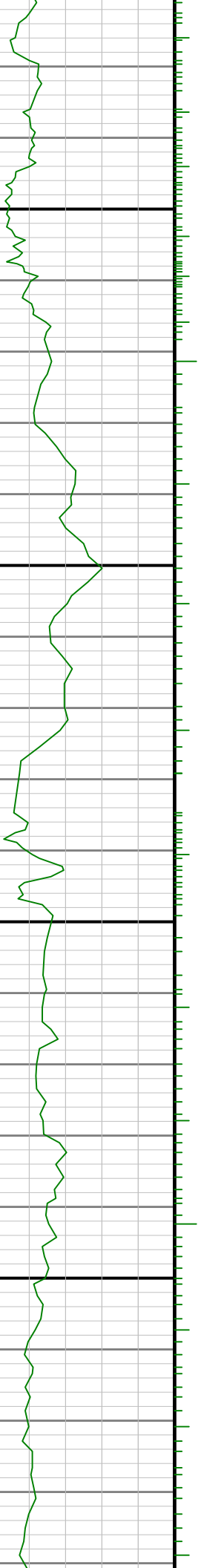


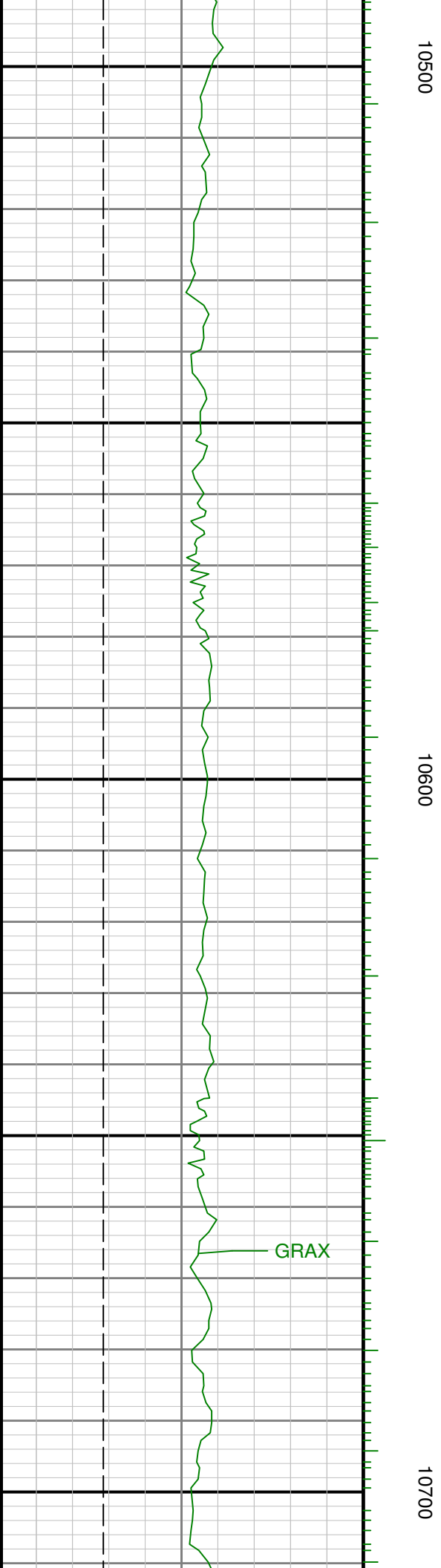
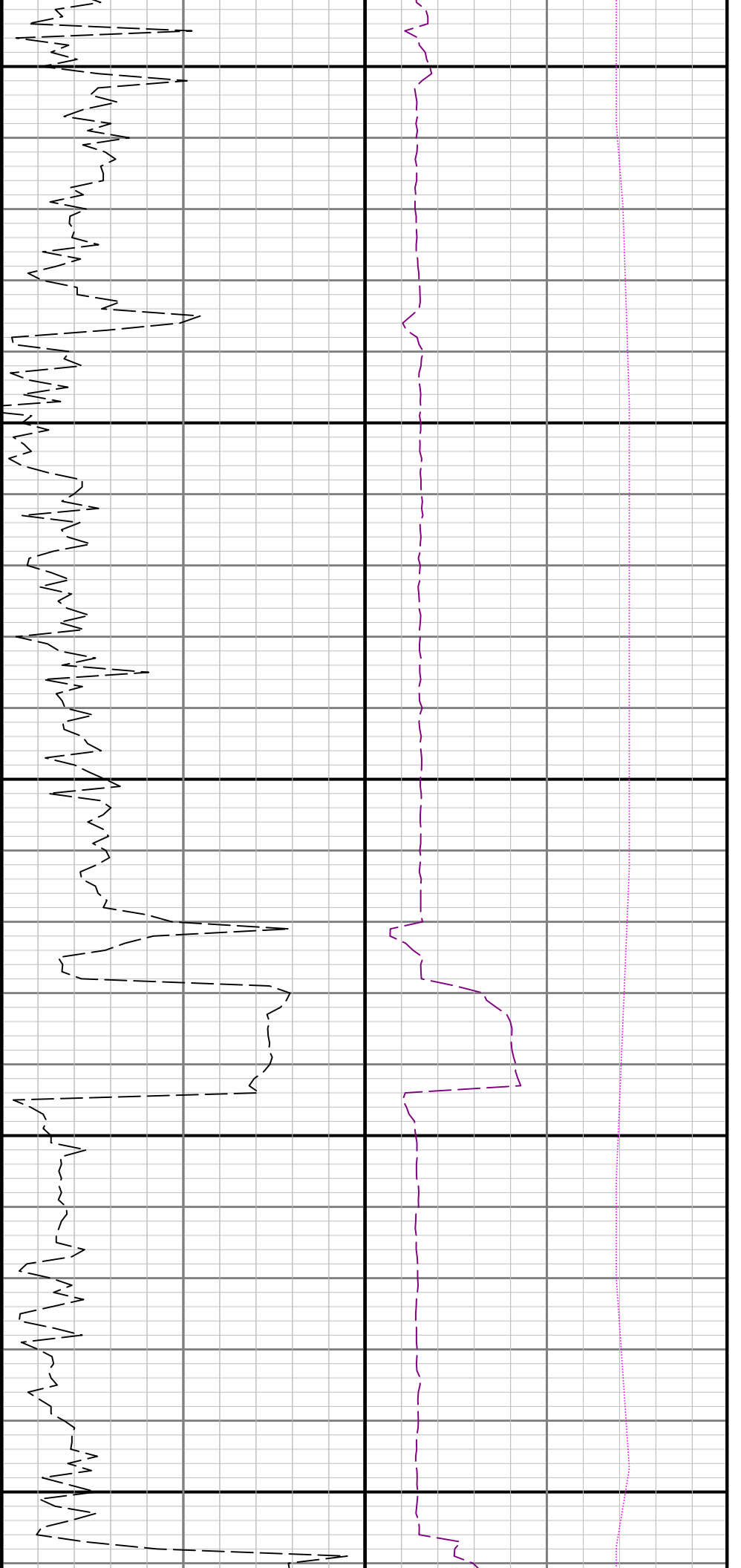


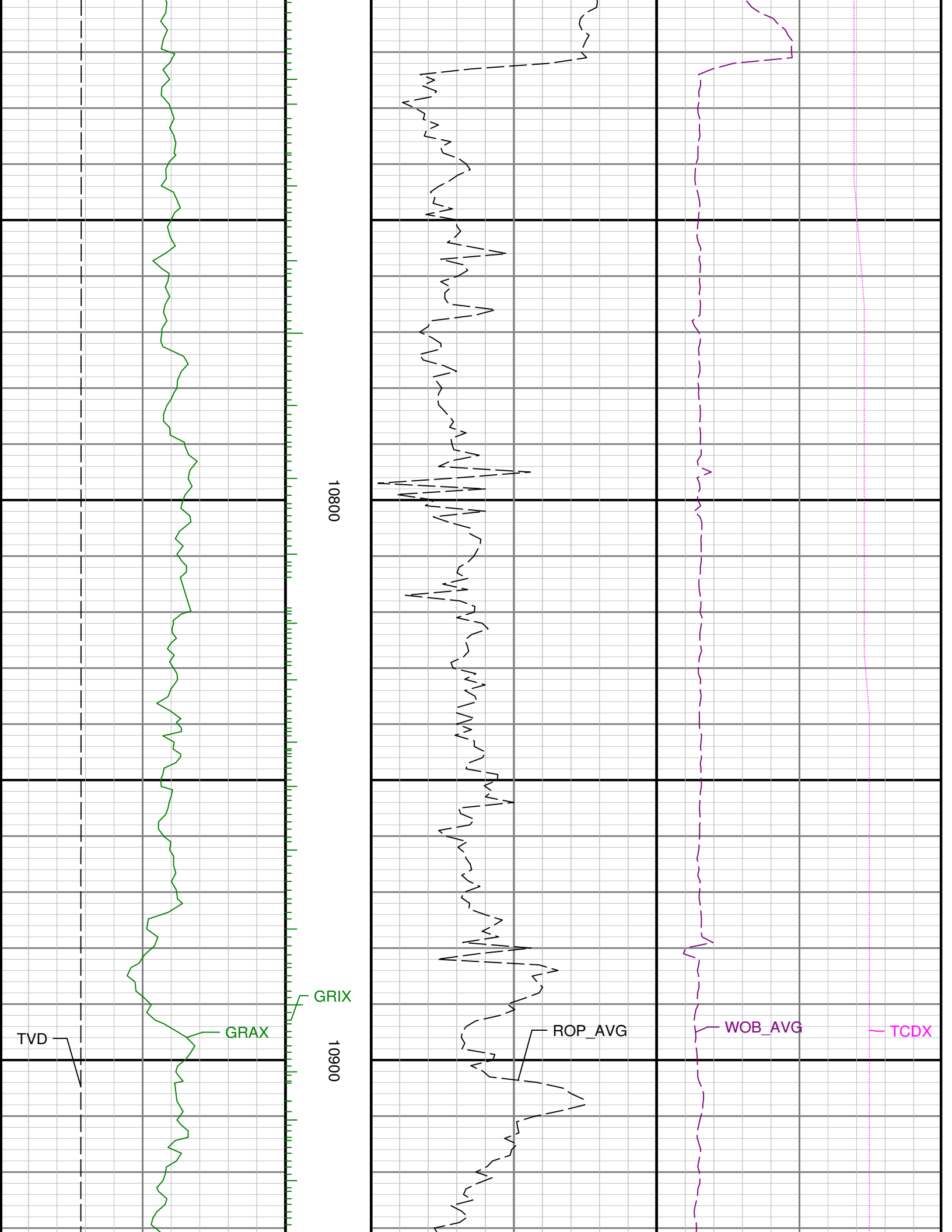


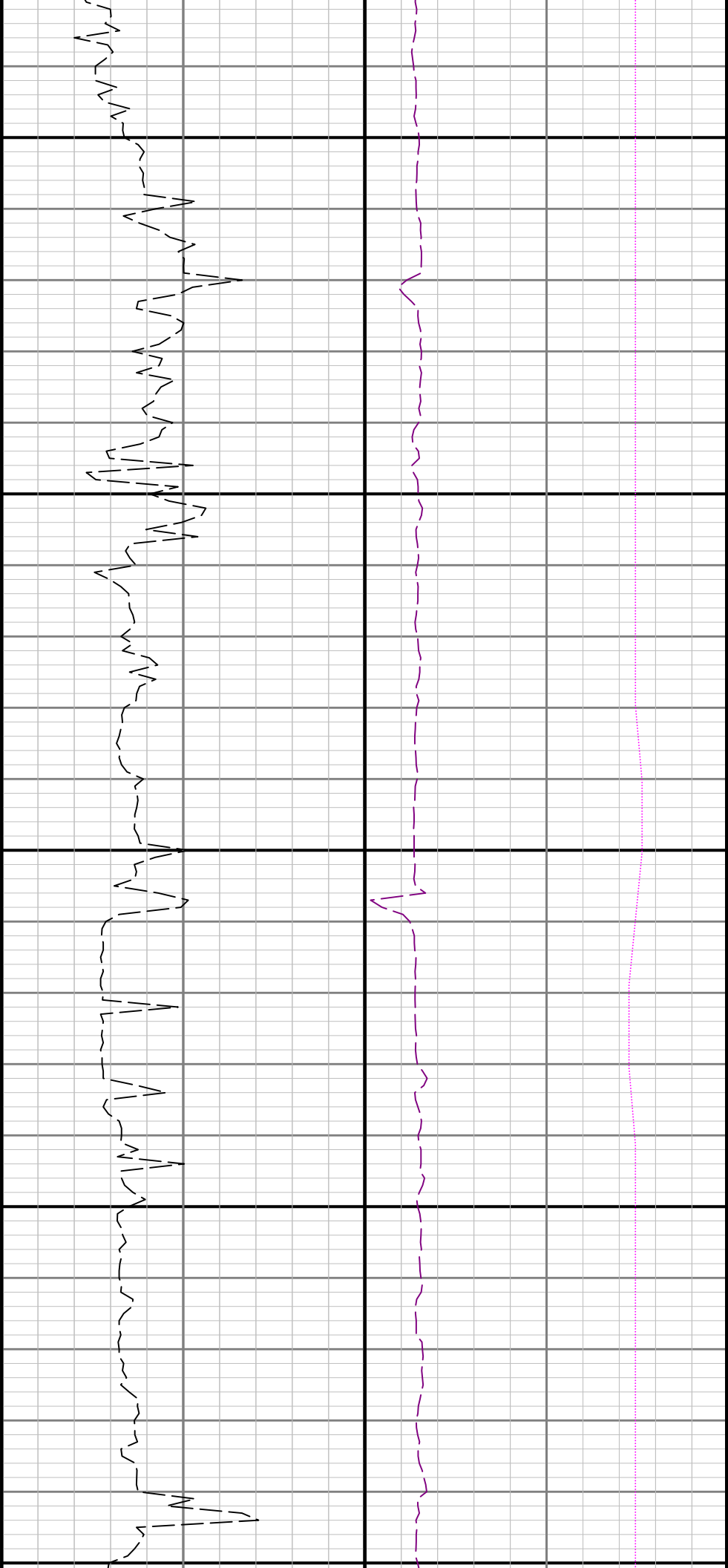
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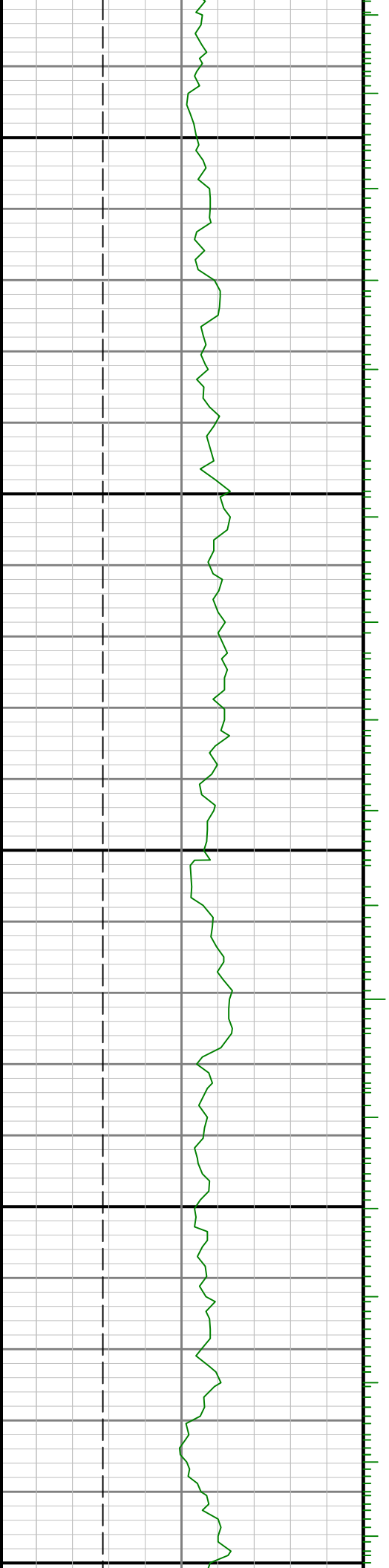


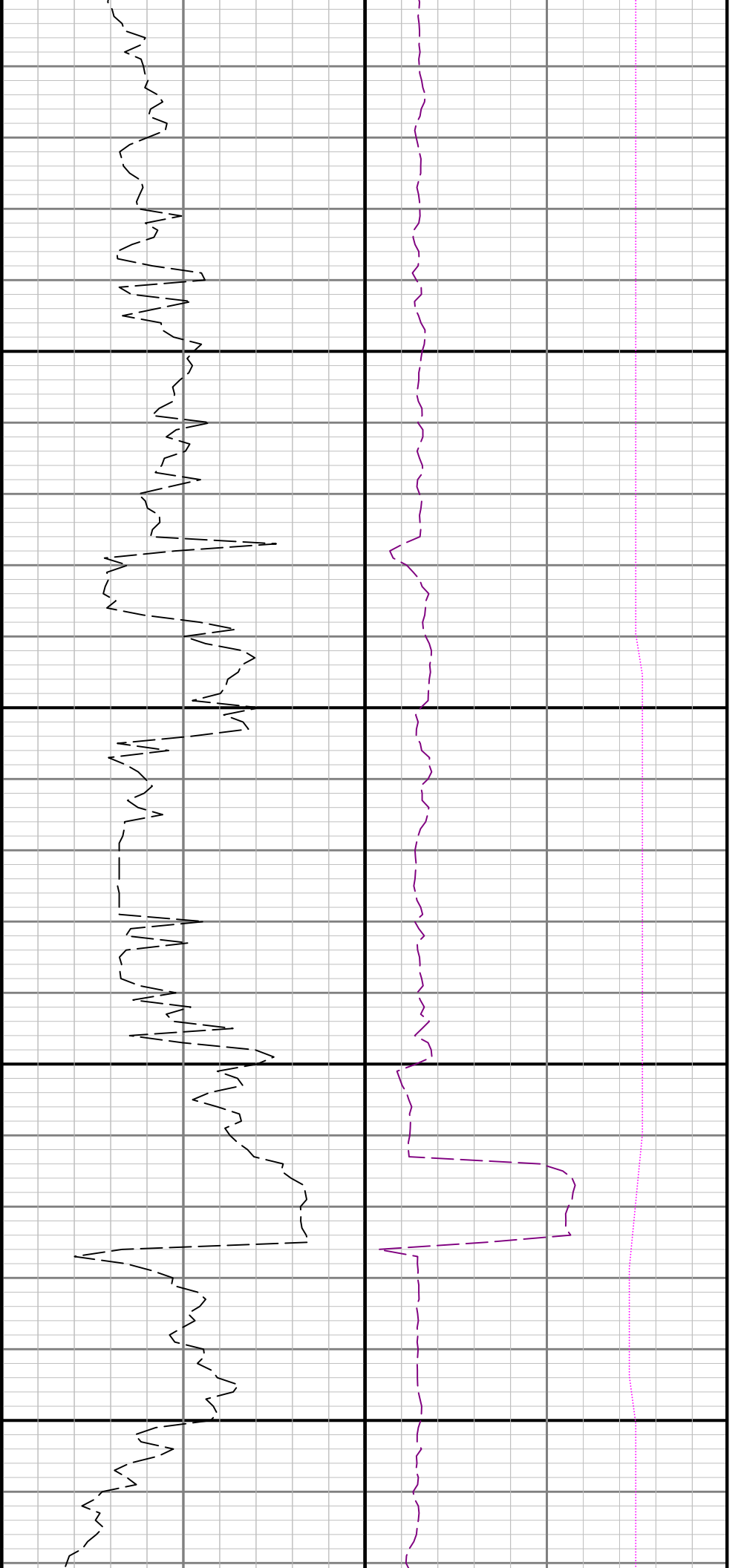




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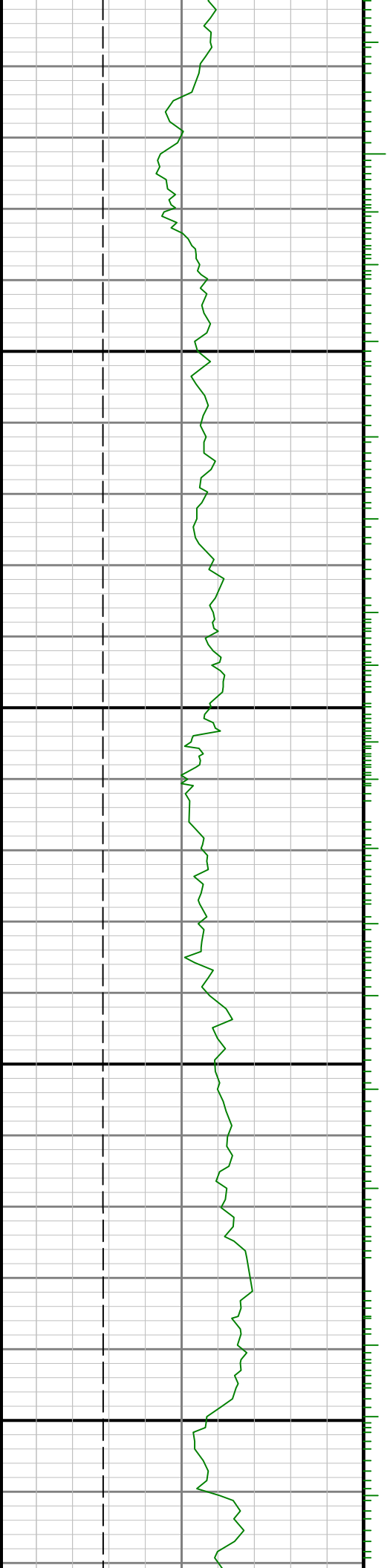
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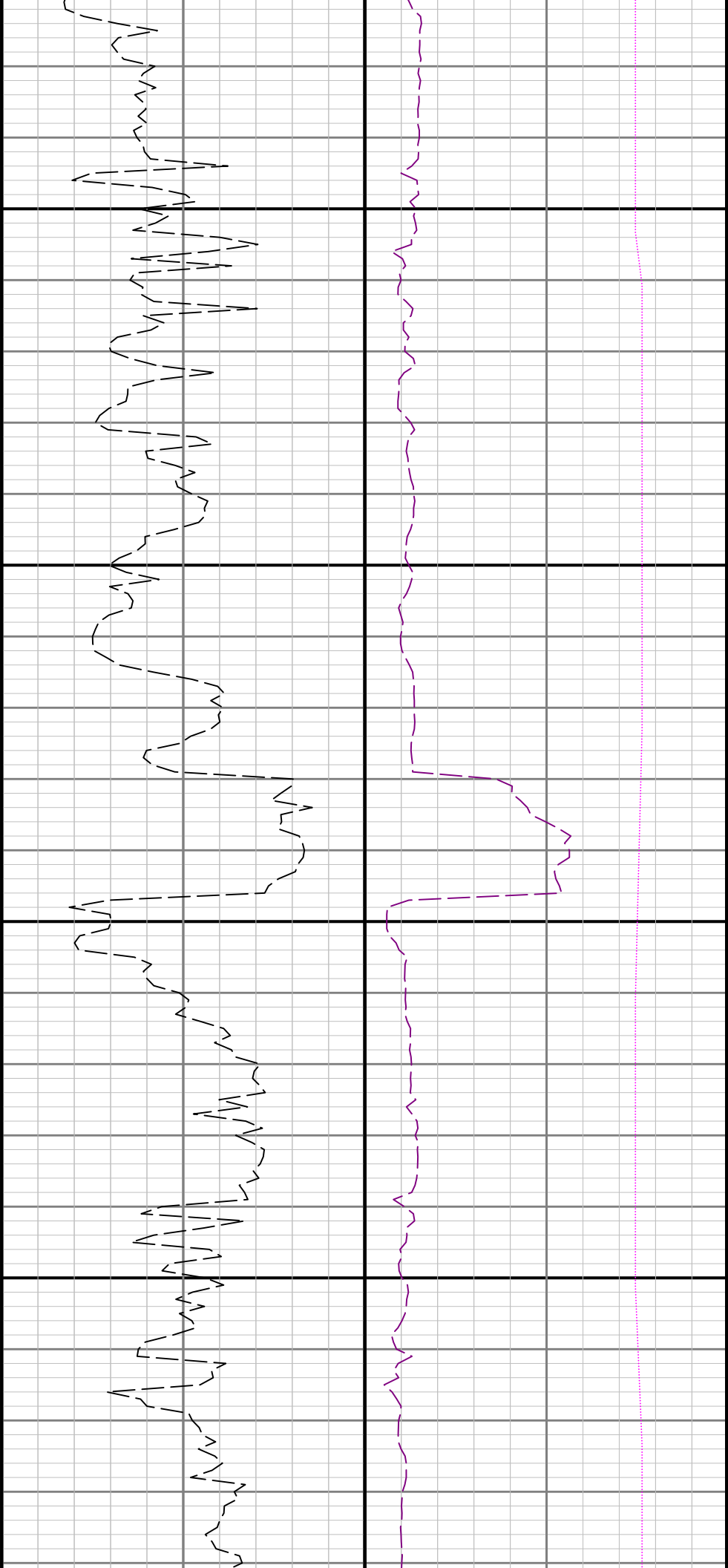




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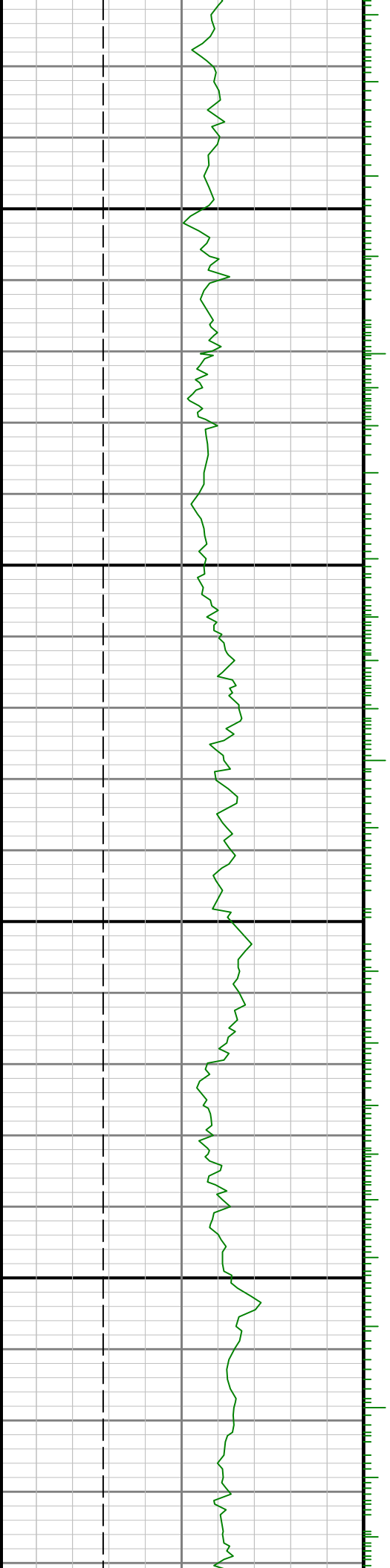
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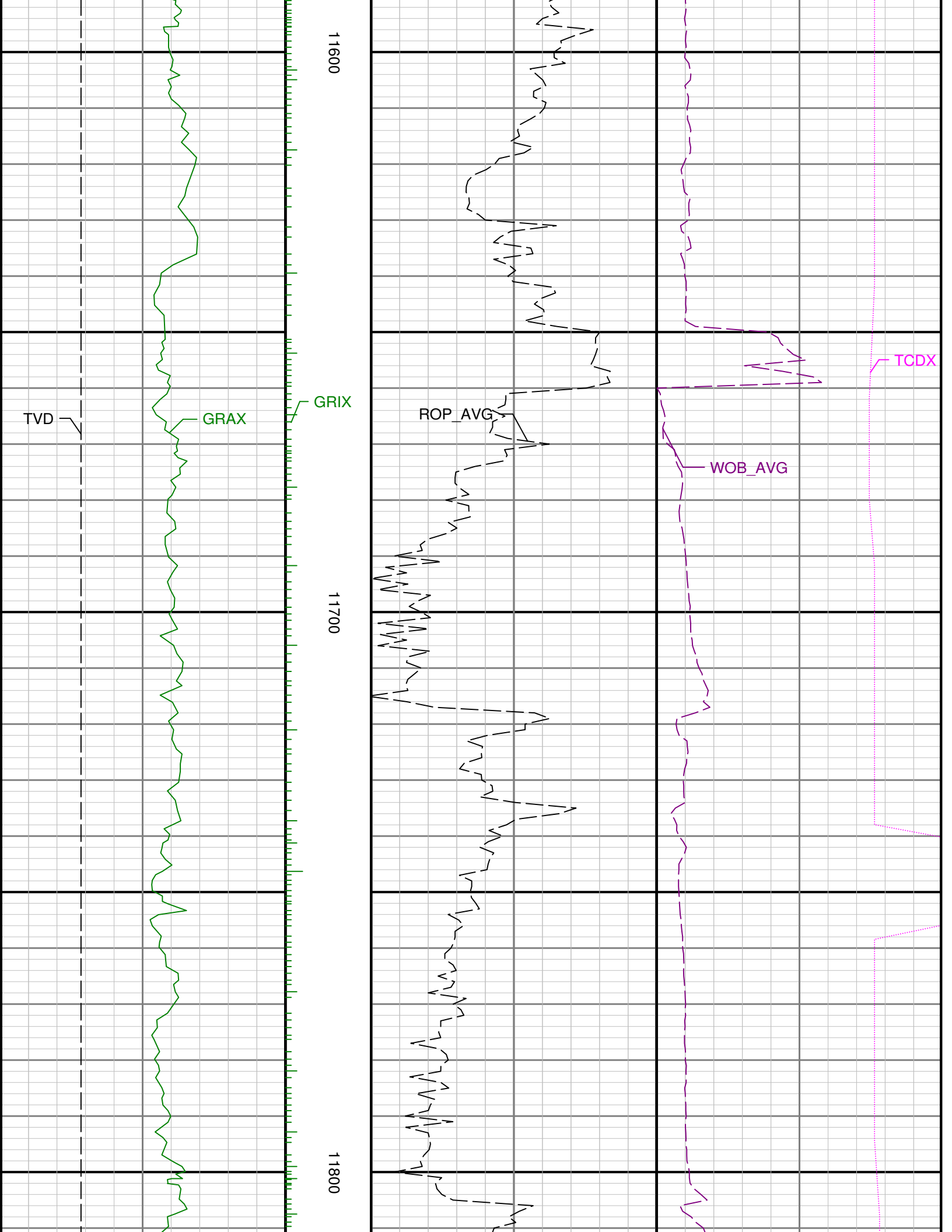


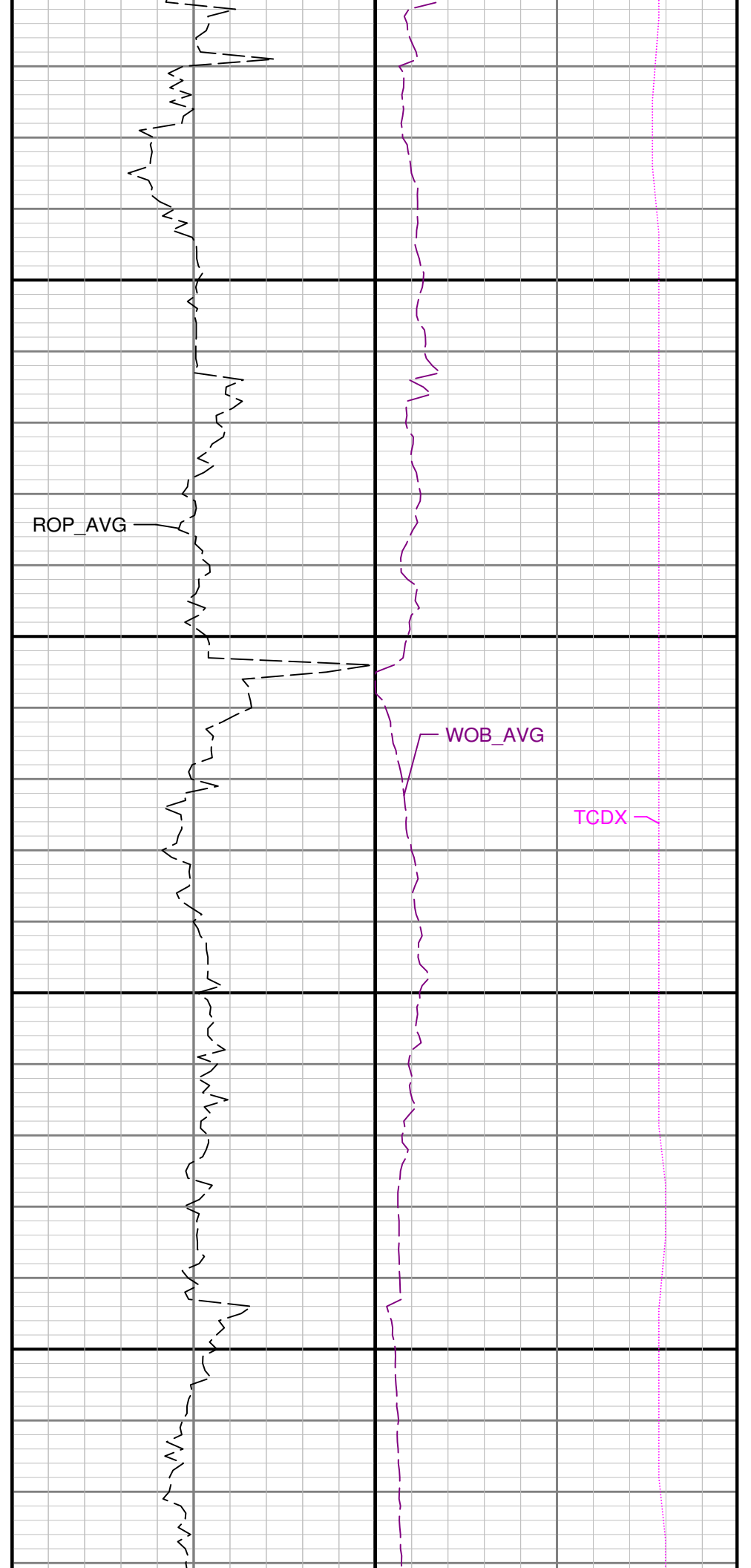
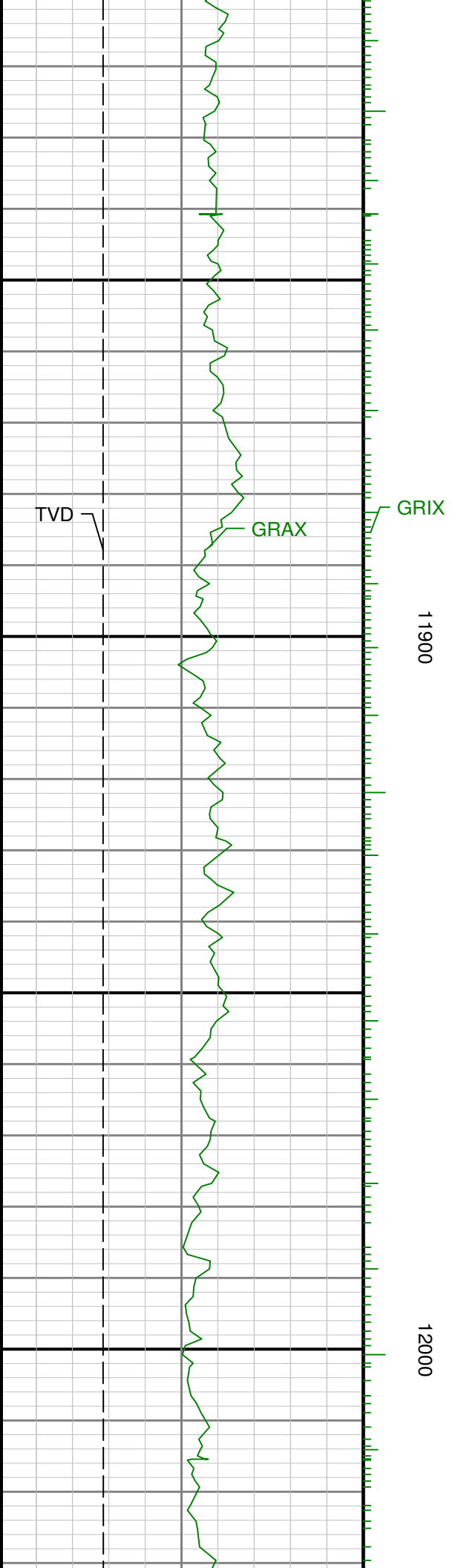


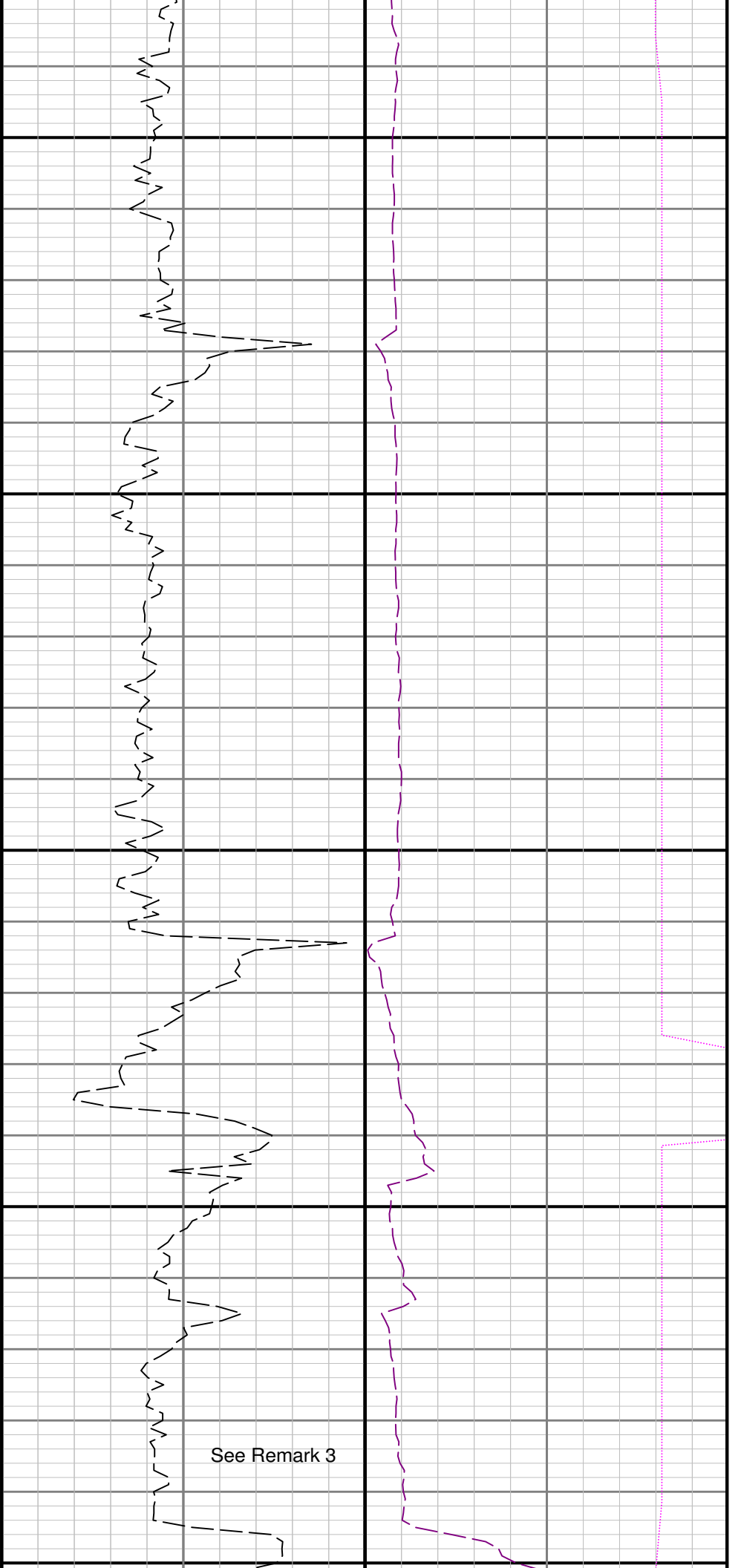
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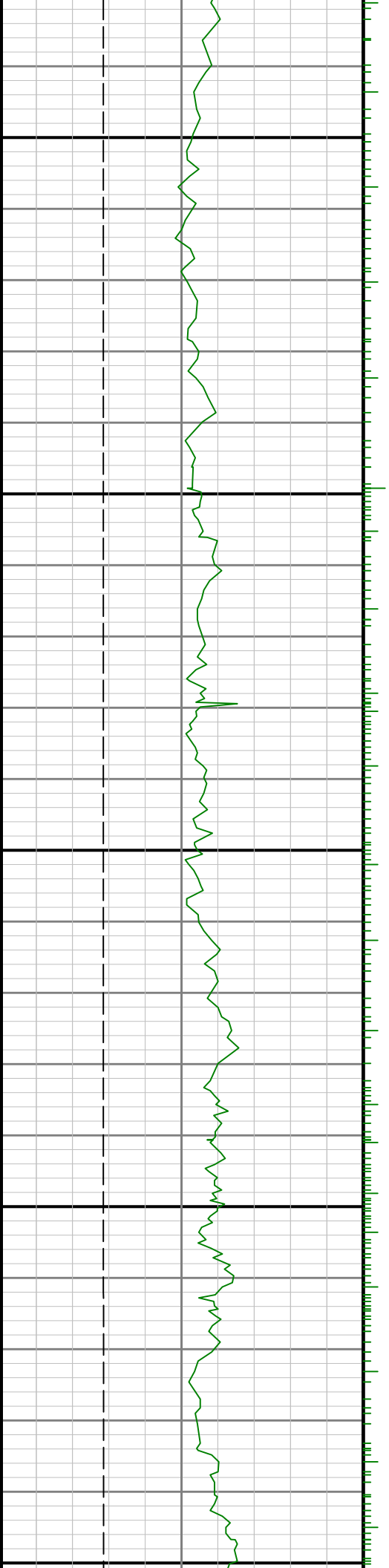


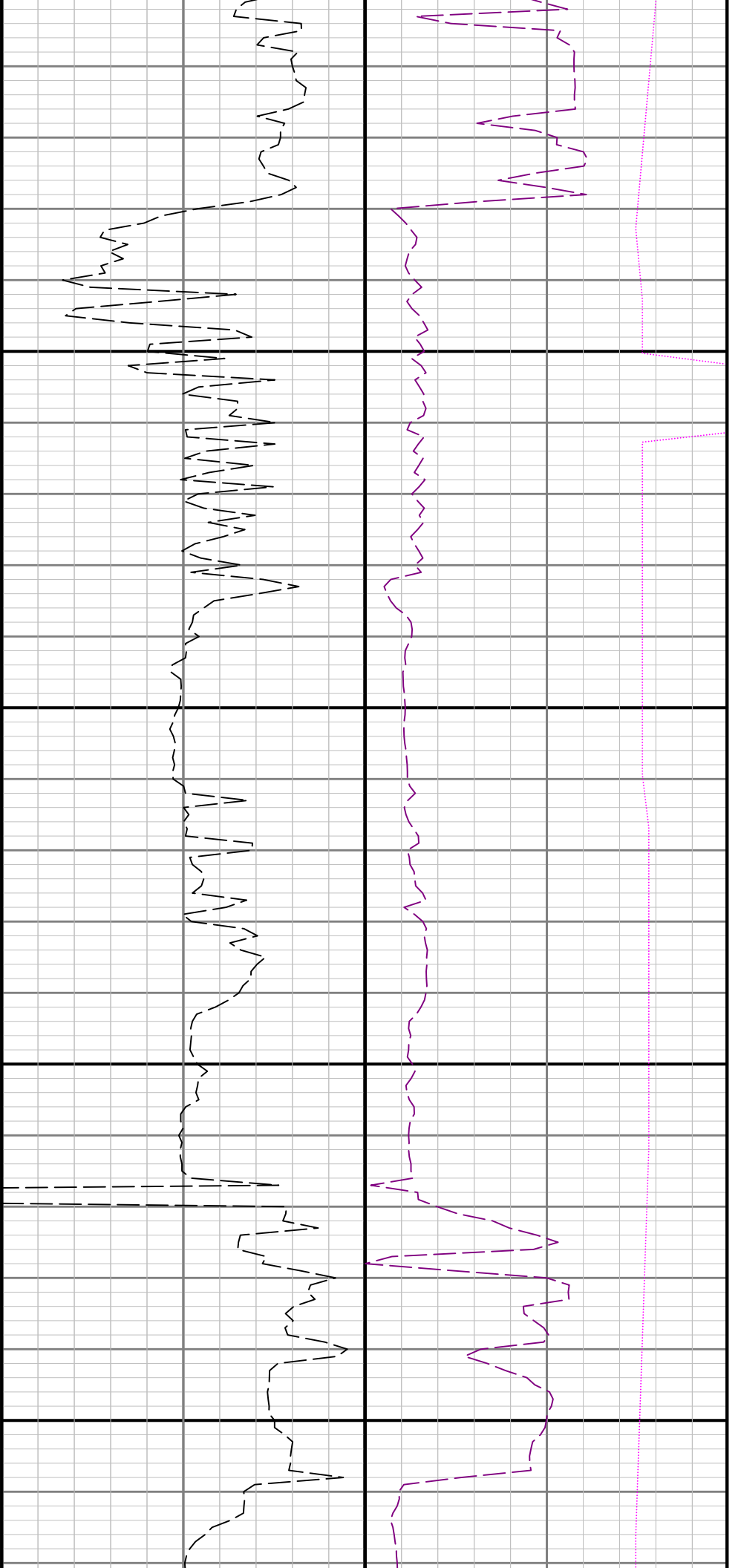
See Remark 3

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12200

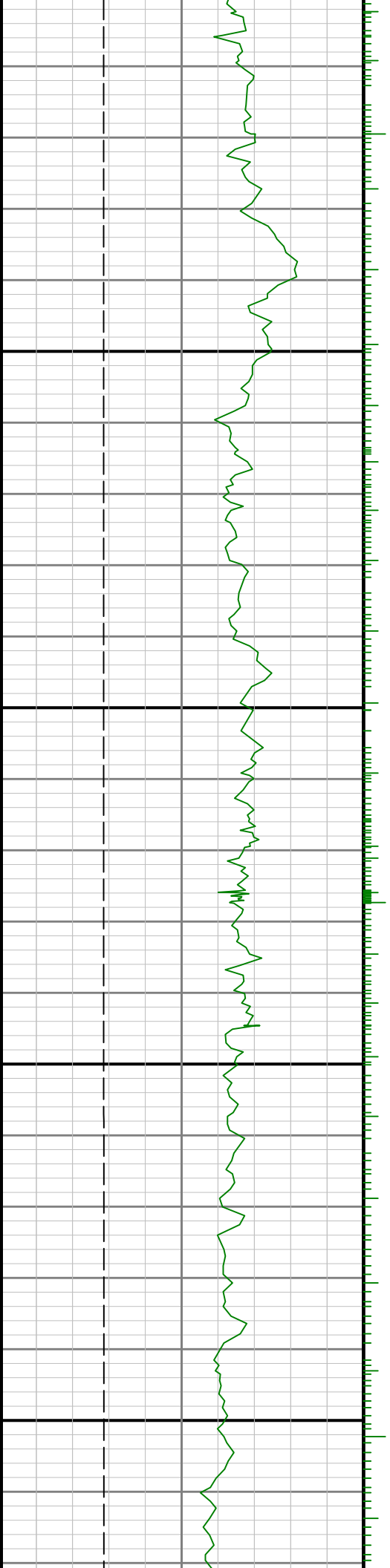
Run 3 > Run 4

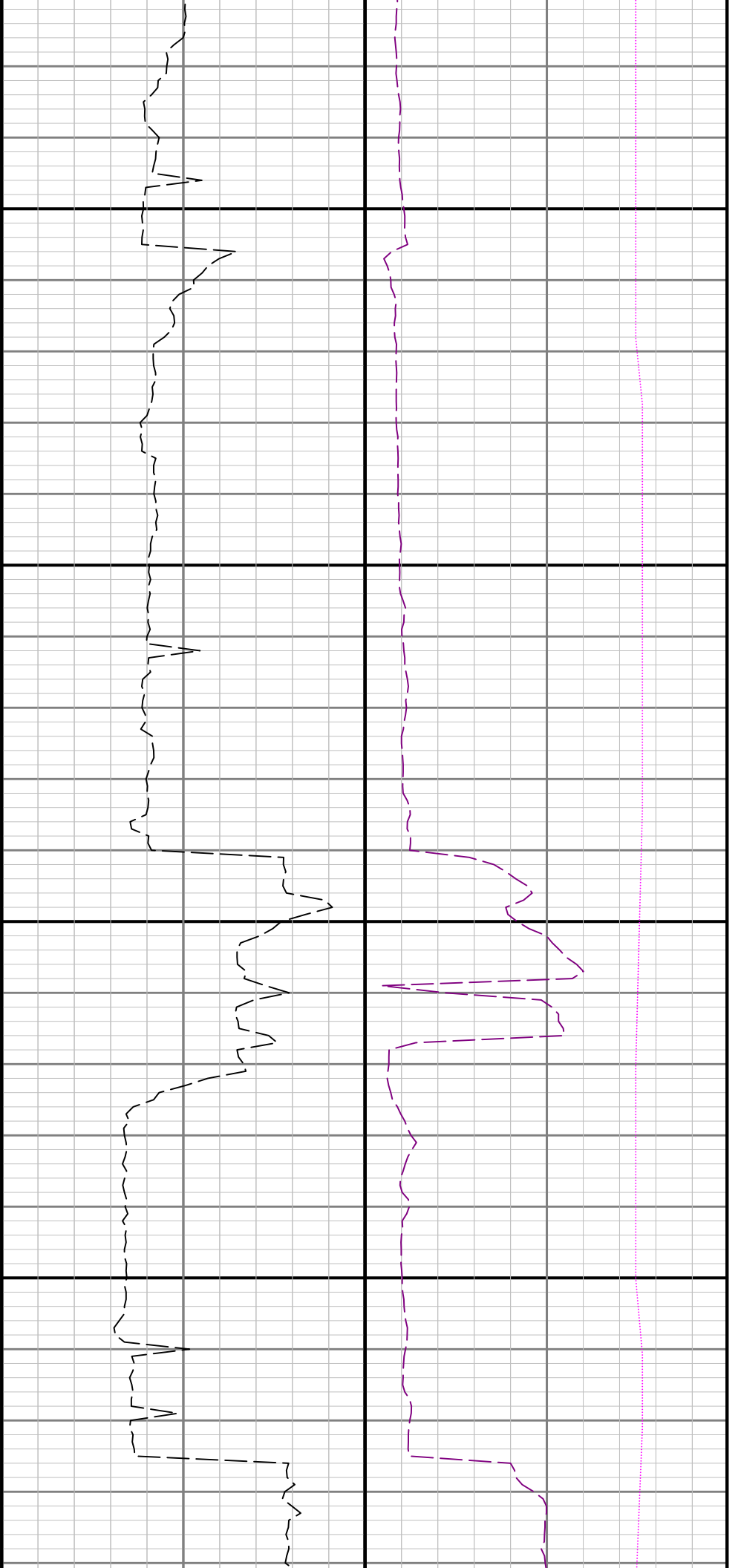




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12400





12500

12600

