

BAKER HUGHES				Natural Formation Evaluation Gamma Ray				Realtime Logs			
Scale: 1:240 MEASURED DEPTH				Company: Anadarko E&P Well: Barefoot 31C-25HZ Field: Weld County (Kerr McGee) County: Weld County State: Colorado							
Status: Final Print		Surface Location: Latitude: 40 ° 12' 10.462" N Longitude: 104 ° 56' 37.007" W		Other Services: Directional							
API Number: 05-123-3919100		Section 25 TWN: 3S Range 68W									
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: DF: GL:							
Depth Reference: Driller's Depth				4908.00 ft.							
Interval Logged				Dates				Magnetic Field Reference			
Top: 6873 ft.		Date From: 07/Aug/14		Dip Angle: 66.90 °		Azi Reference North: True					
Bottom: 10356 ft.		Date To: 15/Aug/14		Total		Mag to Reference					
Spud Date: 07/Aug/14		Field Strength: 52651.0 nT		North Correction: 8.66 °							
Borehole Record				Casing Record							
Hole Size	From	To	Size	Weight	From	To					
13,500 in.	Surface	1750 ft.	9,000 in.	36.00 lb/ft	Surface	1401 ft.					
8,750 in.	1750 ft.	7894 ft.	7,000 in.	36.00 lb/ft	Surface	7884 ft.					
6,125 in.	7894 ft.	13056 ft.									
Mud Record				Deviation Record							
Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)					
Water Base	Surface	13056 ft.	13,500 in.	Surface	0.0 ° / 0.0 °	1.3 ° / 169.2 °					
			8,750 in.	Vert / Curve	1.3 ° / 169.2 °	85.2 ° / 269.4 °					
			6,125 in.	Lateral	85.2 ° / 269.4 °	89.9 ° / 266.1 °					
					/	/					
					/	/					
					/	/					
Acquisition System Software Version				Other							
Advantage	2.20U4	Rig / Contractor:	Xtreme 8	/ Xtreme Coil Drilling							
PATS	6.4.1.34	Job No:	6543997								
		District / Unit:	Rocky Mountain	/ D&E							

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Log Run Summary													
LWD	BHA	Bit	Bit	Bit	Bit	Assembly	Logged Interval		Bit Depth Interval		Date / Time		Circ.
Run	Run	Run	Size	Type	Gauge	Type	Top	Bottom	From	To	Start	End	Time
No.	No.	No.	(in.)		Length		(ft.)	(ft.)	(ft.)	(ft.)			(hrs.)
1	1	2	8.750	PDC	N/A	Mud Motor	6814	7834	6874	7892	08/Aug/2014 21:37	11/Aug/2014 05:08	49.32
2	2	3	8.750	PDC	N/A	Mud Motor	7834	12088	7893	13056	13/Aug/2014 02:18	15/Aug/2014 15:00	43.22

Crew								
Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Kevin Sheridan	08/08/2014	08/15/2014	Shirley Arimah	08/09/2014	08/15/2014			

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+ (%)
08/10/2014	19:45	2	7815	Water Based Mud	N/A	46	9.5	N/A	1/90	Active Mud Pits	2300	N/A
08/12/2014	20:45	2	8827	Water Based Mud	N/A	40	9.6	N/A	2/90	Active Mud Pits	2100	N/A
08/14/2014	20:30	2	12792	Water Based Mud	N/A	38	9.2	N/A	2/90	Active Mud Pits	2100	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent	API 0.5 ft. avg.
GRIX	Gamma Ray Density	Points
ROP_AVG	Rate of Penetration	ft/hr 3.0 ft. avg.
TCDX	Downhole Temperature	deg F
TVD	True Vertical Depth	ft.
WOBA_AVG	Surface Weight On Bit	klbf 1.0 ft. avg.
GRTX	Gamma Time Since Drilled	min

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	SRIG	12380940	Gamma	58.23	6.750	2.750
1	DIR	10239728	Directional	61.60	6.750	2.750
2	SRIG	11814653	Gamma	63.03	4.750	1.750
2	DIR	12887296	Directional	66.41	4.750	1.750

Service and Tool Mnemonics

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

Comments

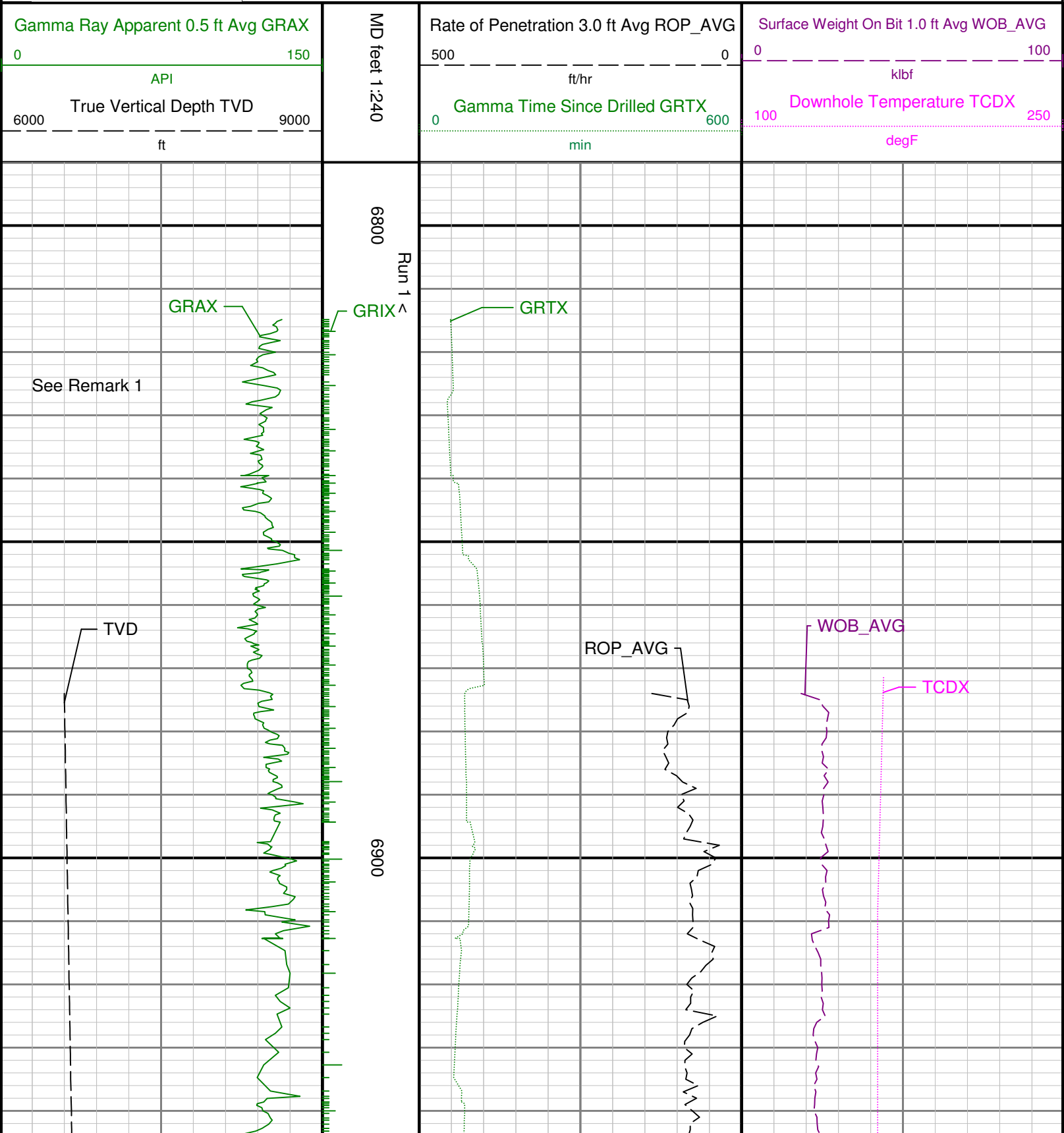
<p>1) Baker Hughes INTEQ run 1 utilized a 6.5 inch NaviGamma (Gamma Ray and Directional) tool behind a 8 3/4inch bit and steerable assembly from surface to 7894 ft. MD (7202 ft. TVD).</p> <p>2) Baker Hughes INTEQ run 2 utilized a 4.75 inch NaviGamma (Gamma Ray and Directional) tool behind a 6 1/8 inch bit and steerable assembly from 7894 to 13056 ft. MD (7202 to7226 ft. TVD).</p>
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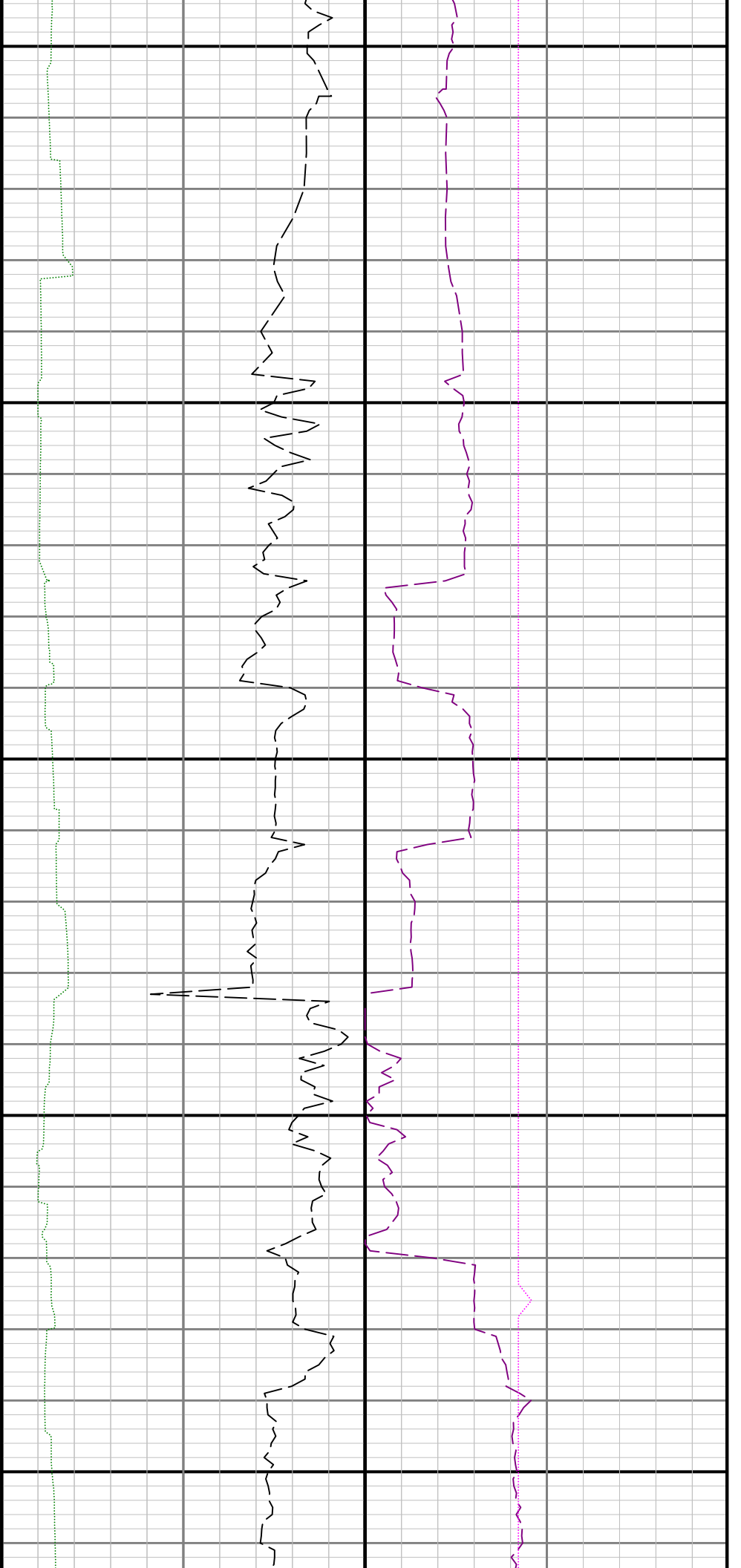
Remarks

Number	Measured Depth (ft.)	Hole Section (in.)	LWD Run No.	Remark
1	6873	8.750	1	The interval from surface to 6873 feet MD (6588 feet TVD) was logged due to gamma offset at the start of the curve.
2	7894	6.125	2	The interval from 7834 to 7894 feet MD (7199 to 7202 feet TVD) was logged up to 24 hours after drilling due to tripping out of the hole for casing and cement operations. Gamma data is attenuated due to logging behind casing.



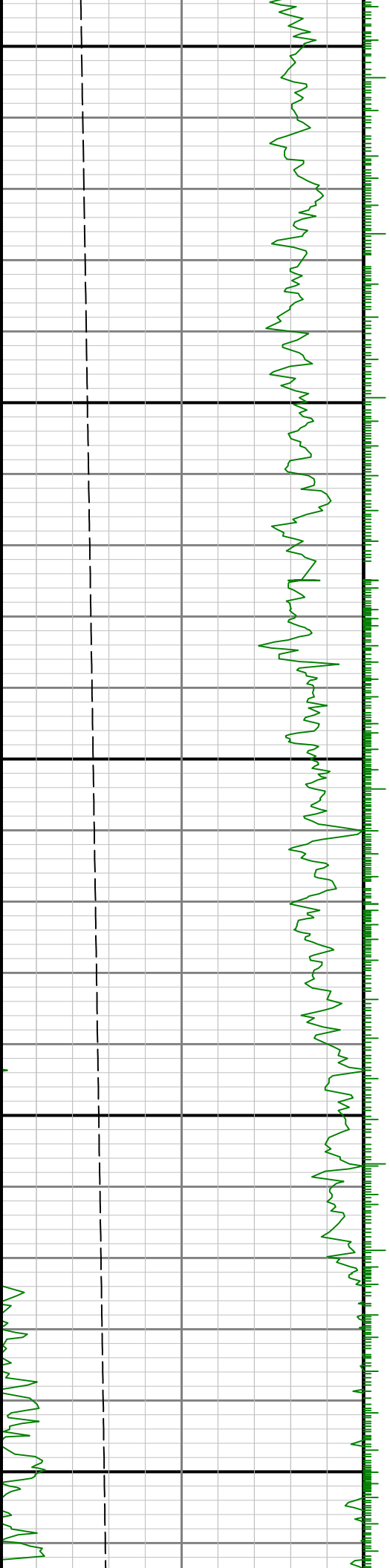
Company : Anadarko E&P
Well : Barefoot 31C-25HZ
Interval : 6790.00 - 13080.00 feet
Created : 14/Aug/2014 10:59:16 PM

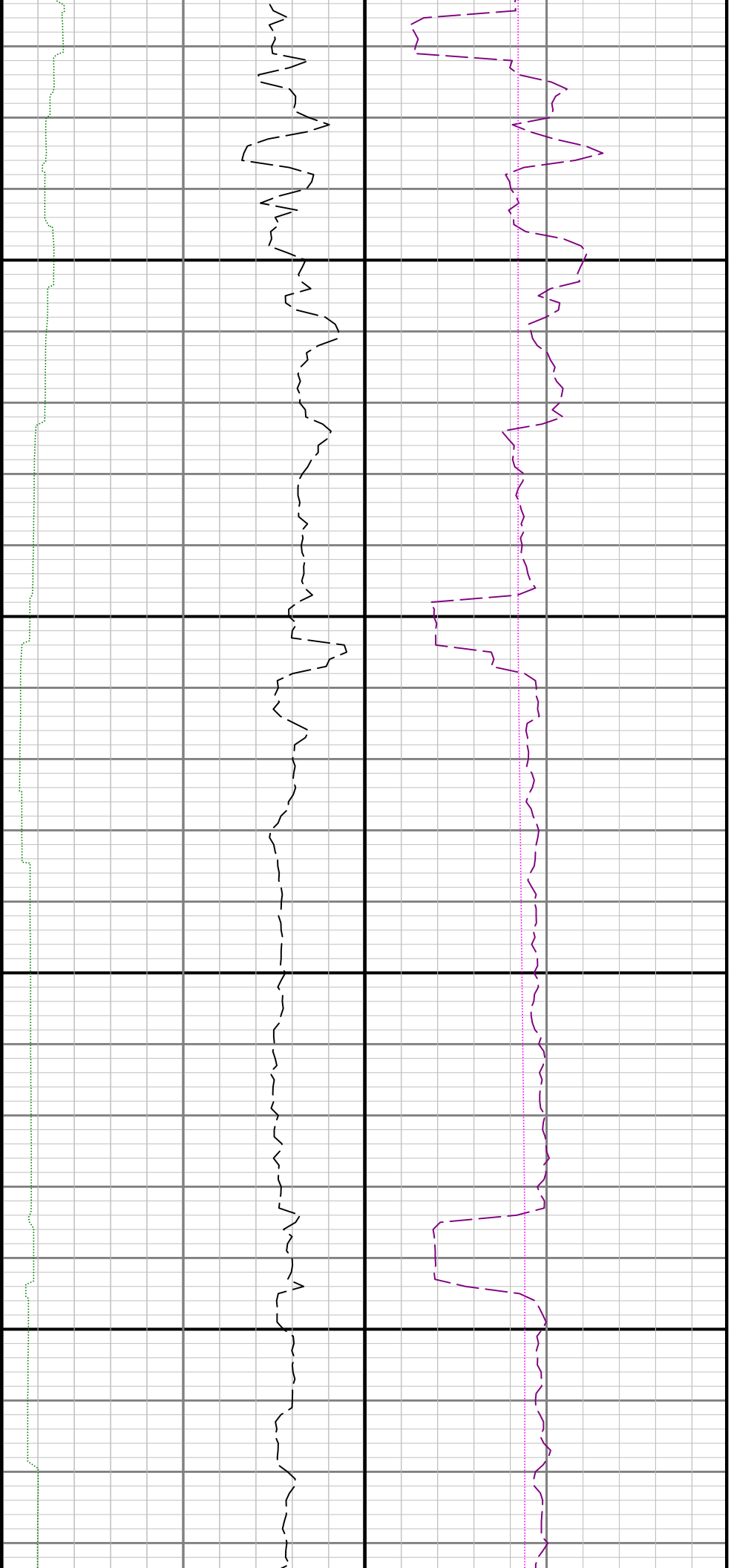




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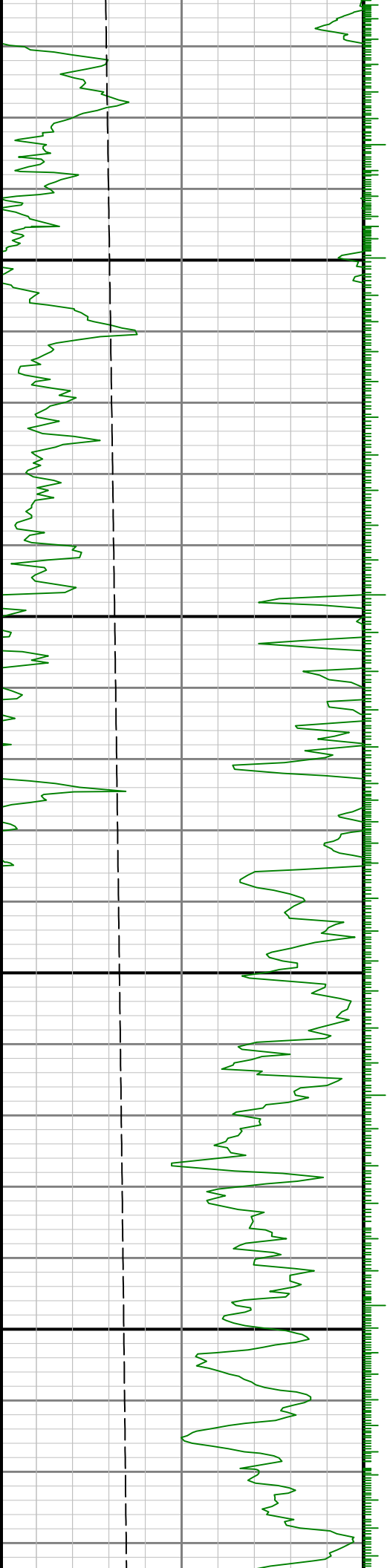
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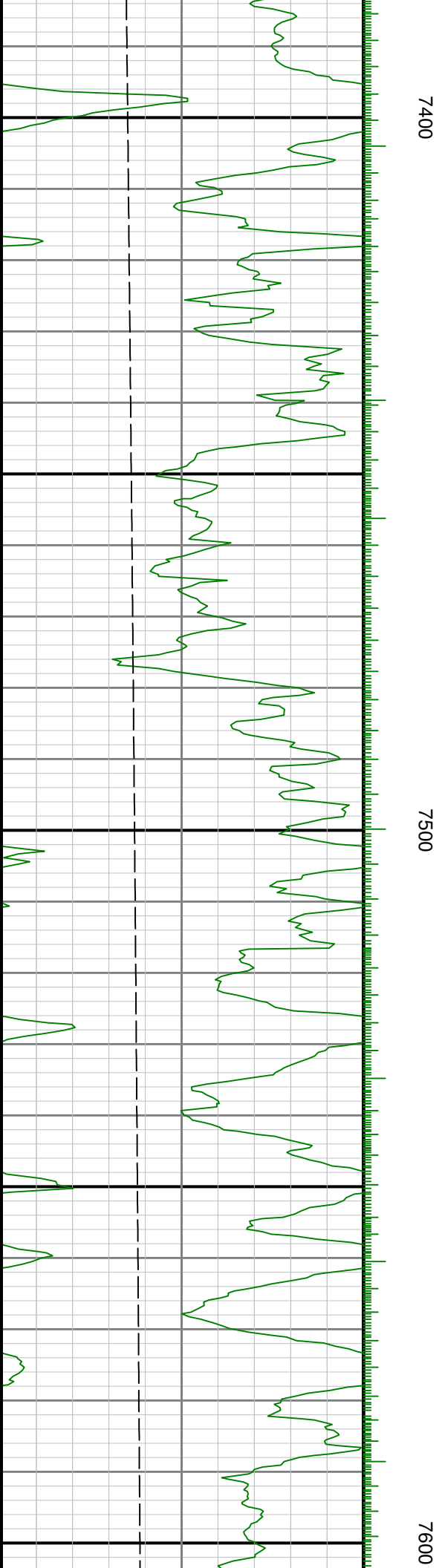
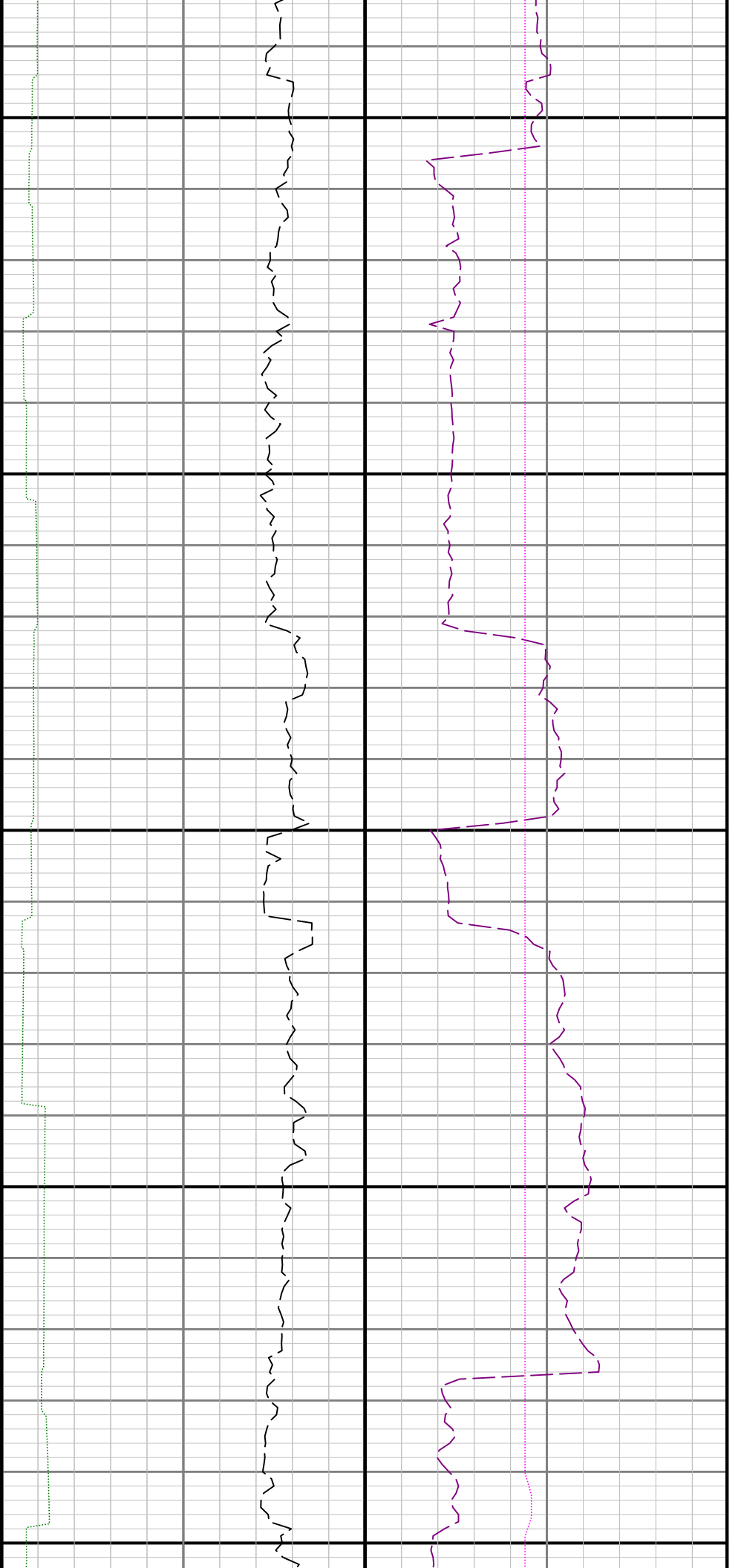


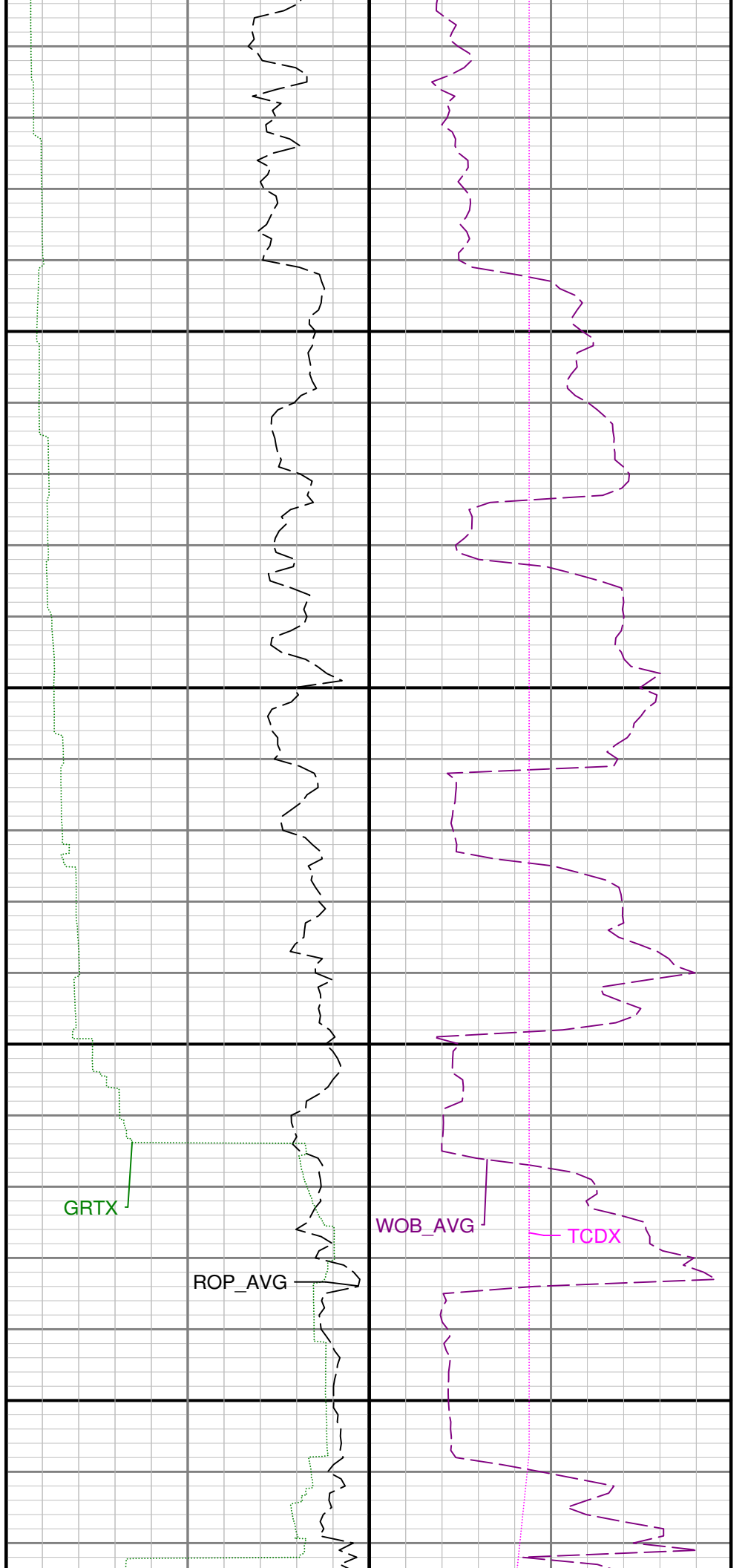
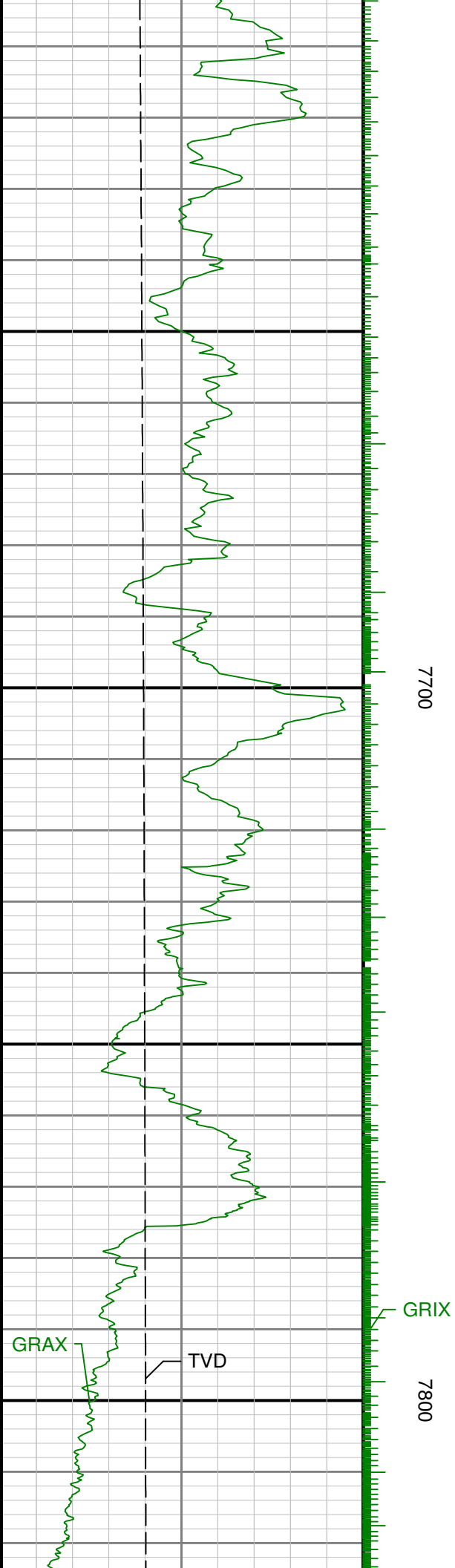


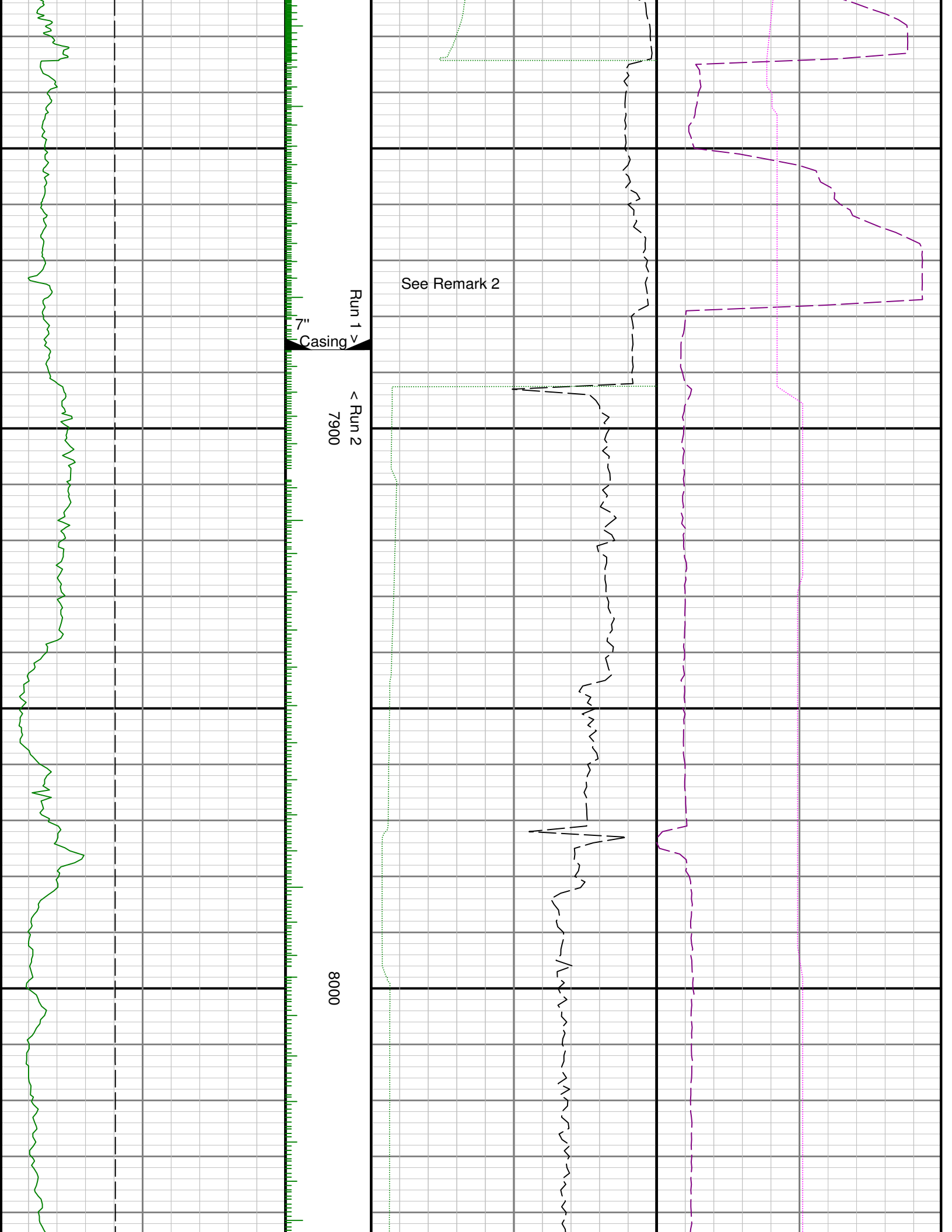
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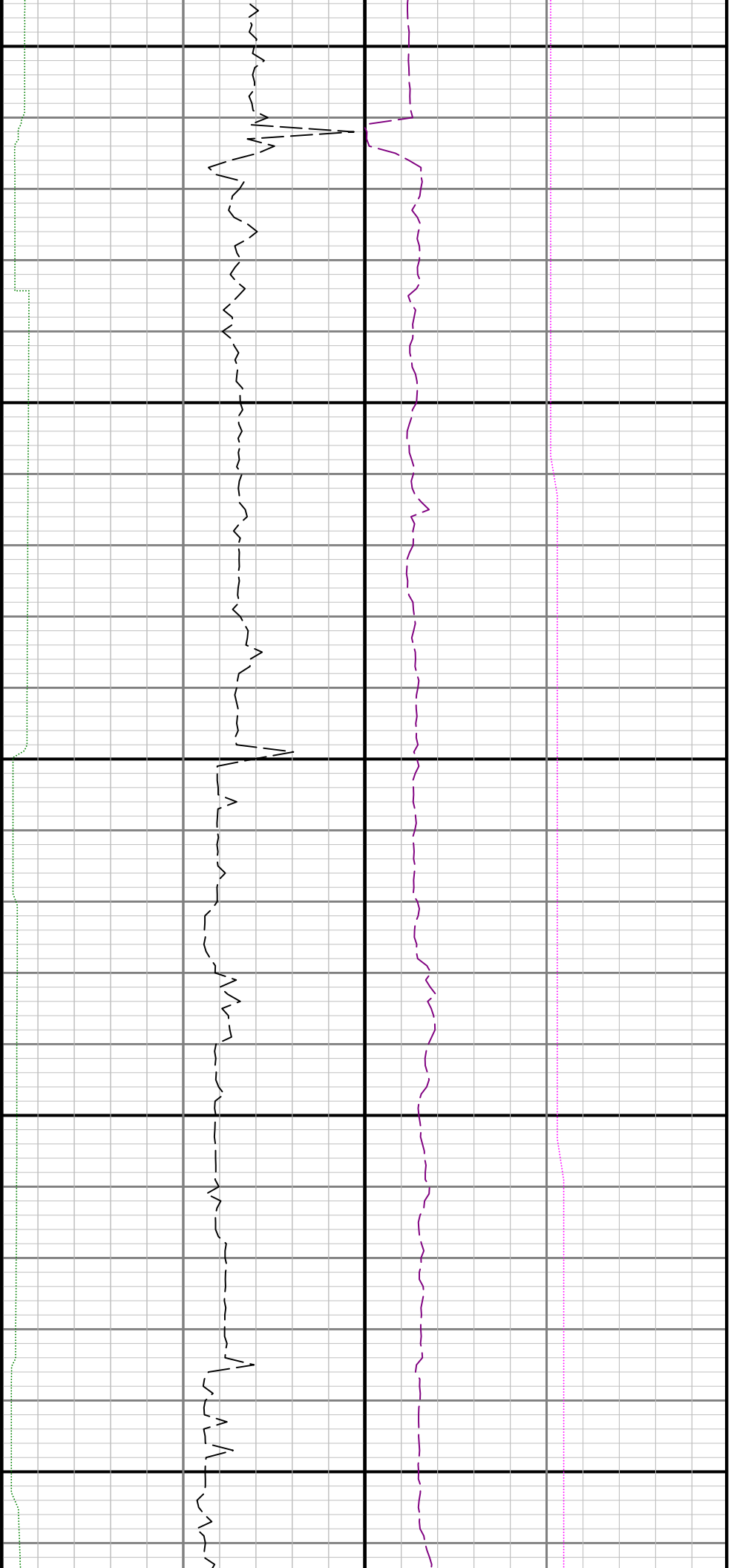
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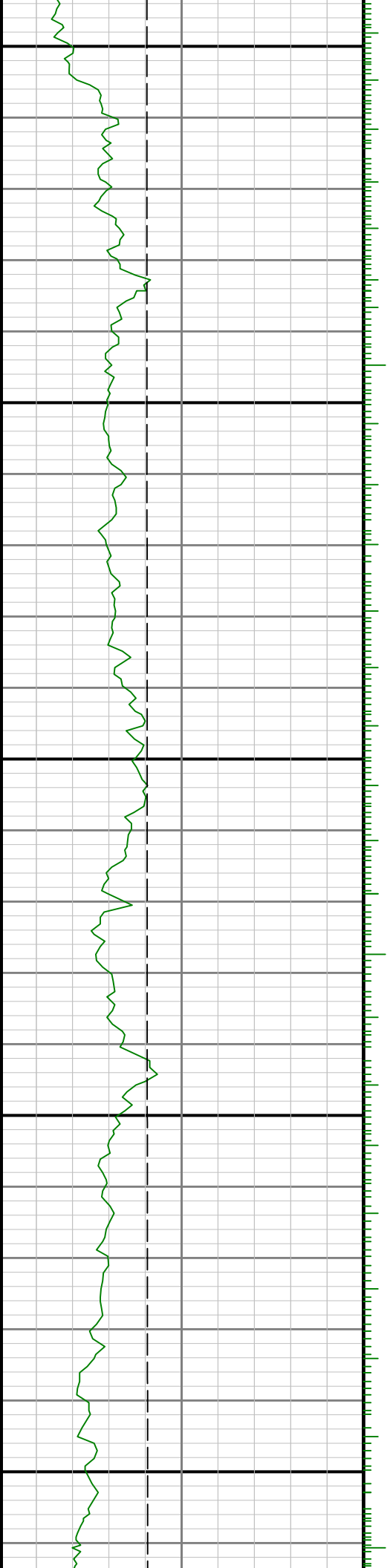


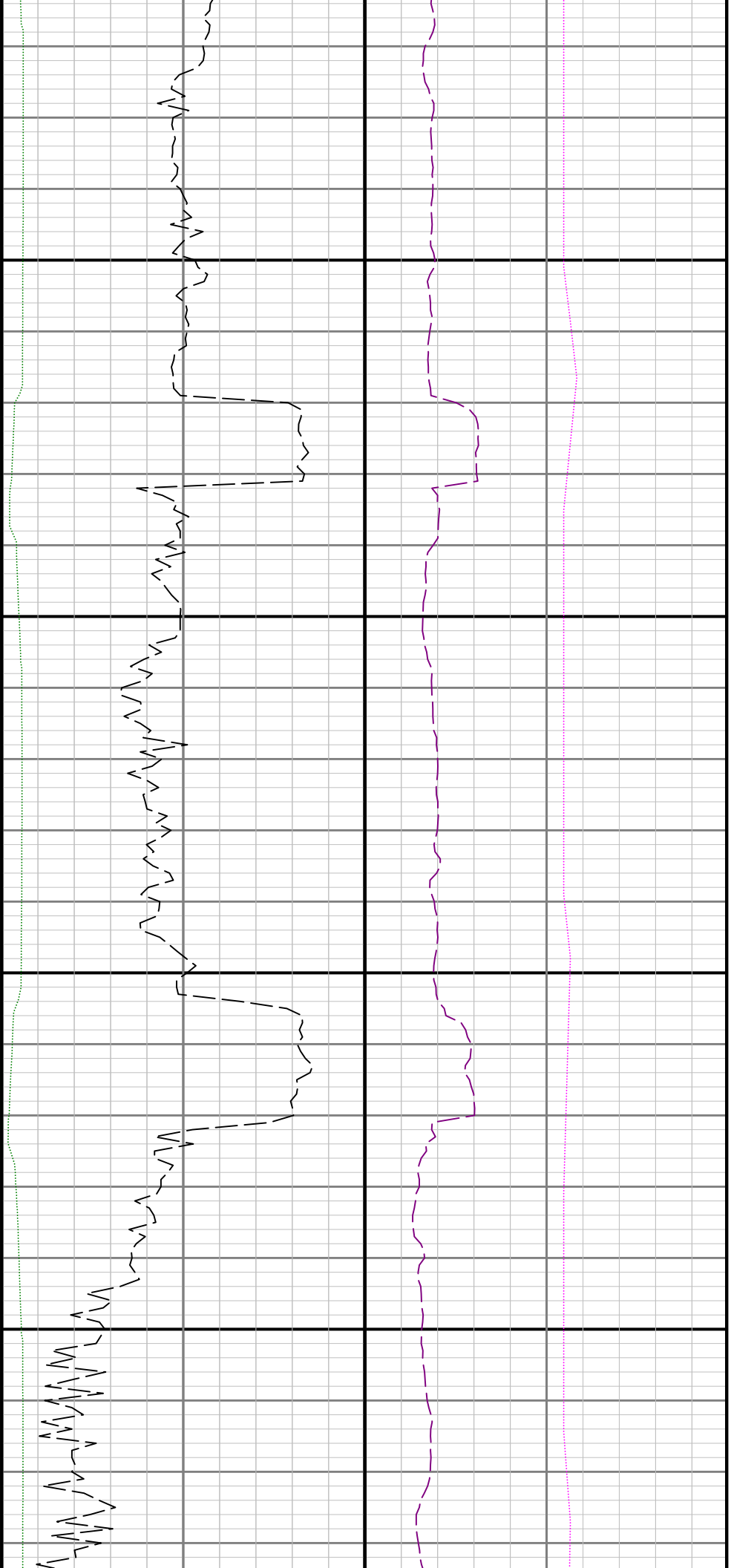




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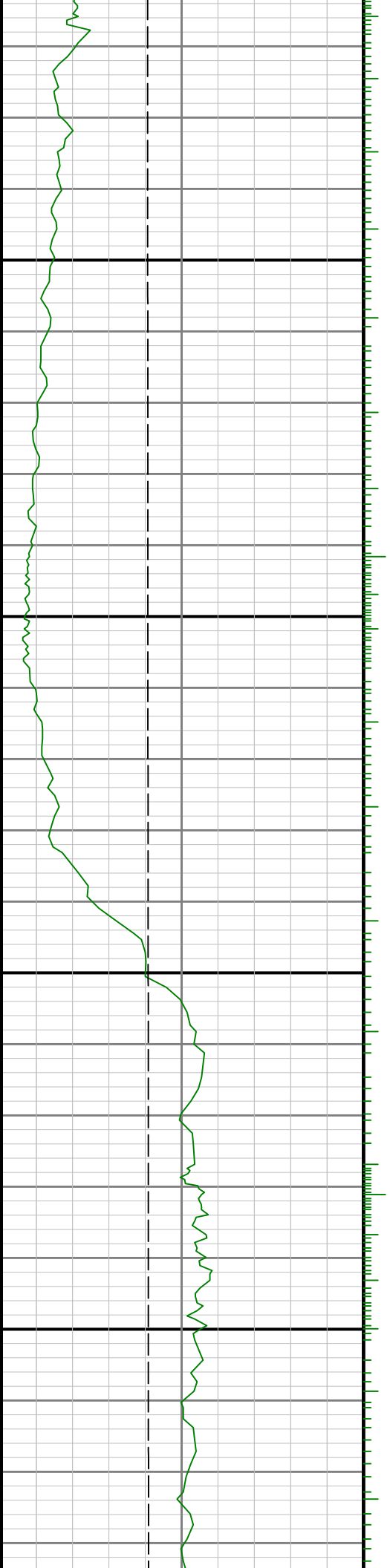
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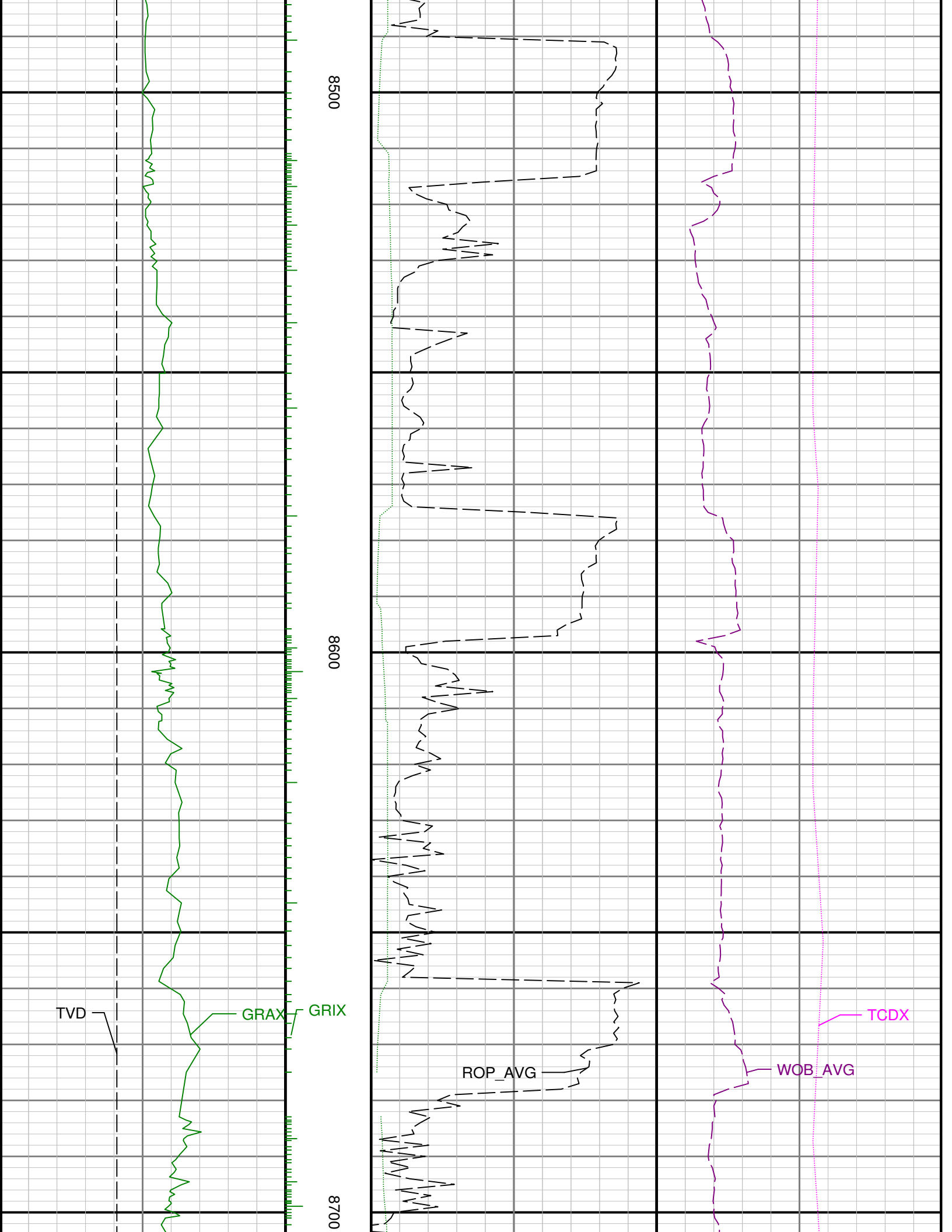


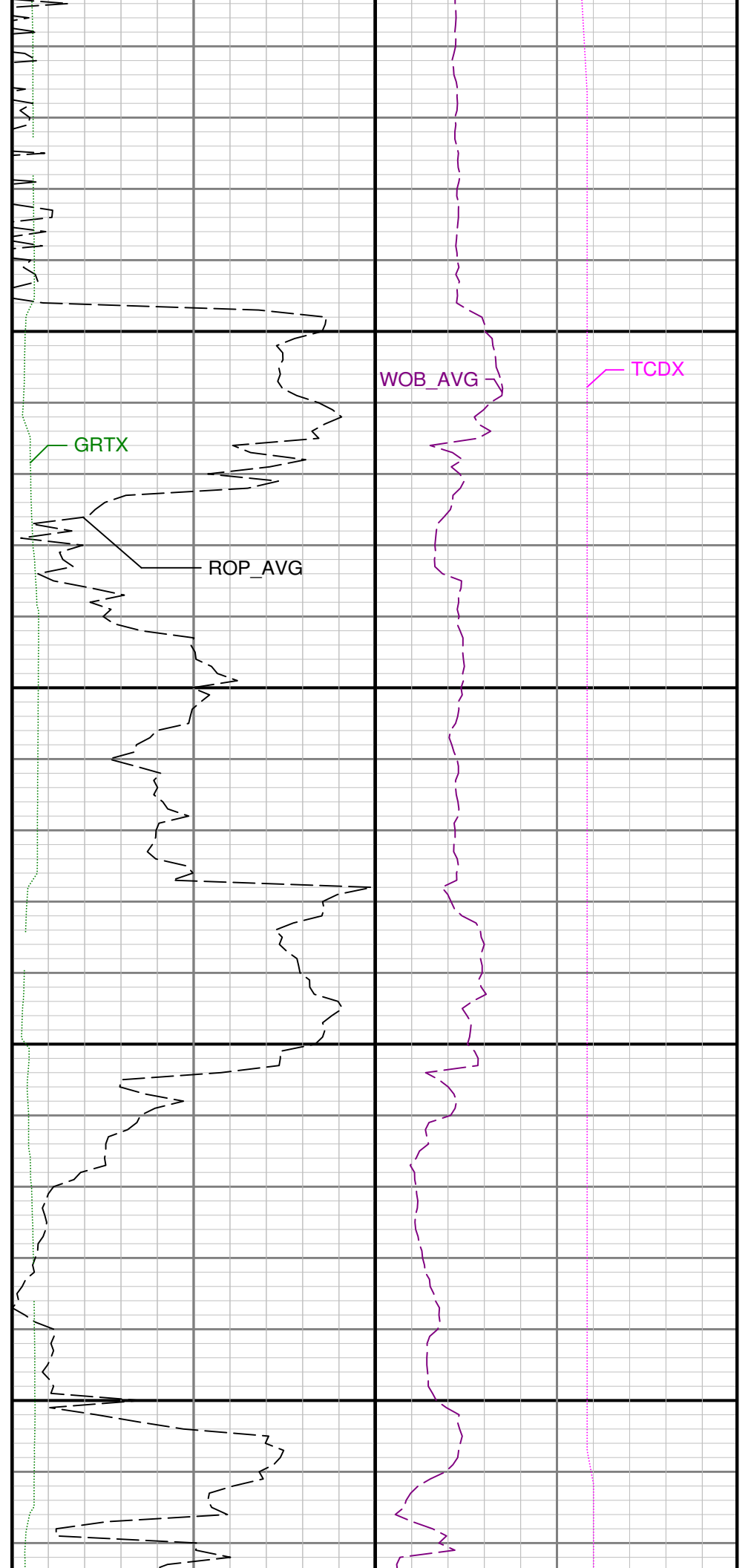
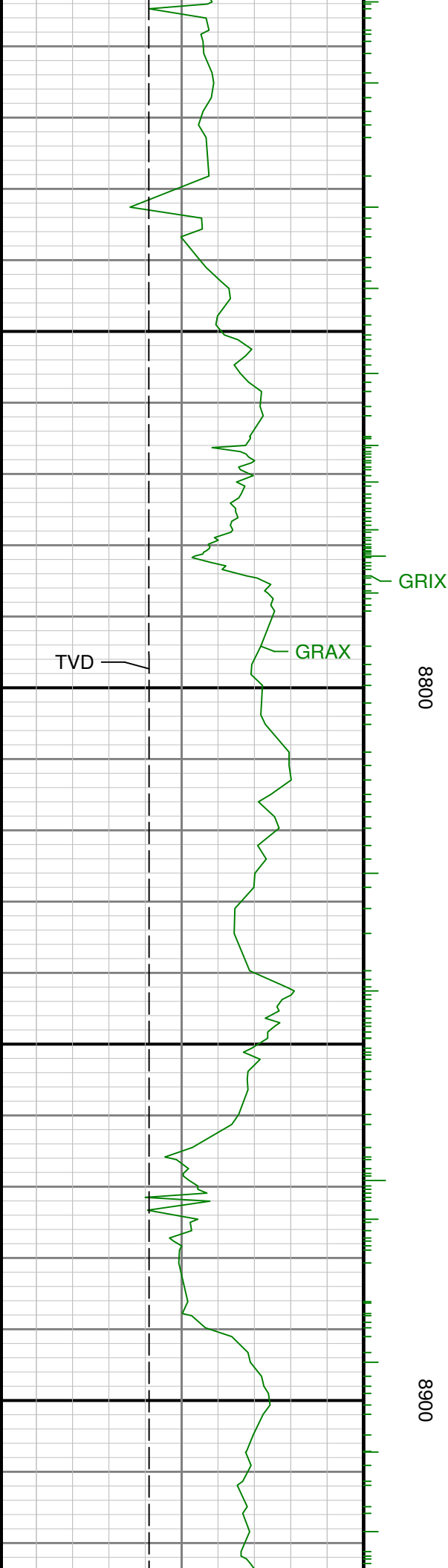


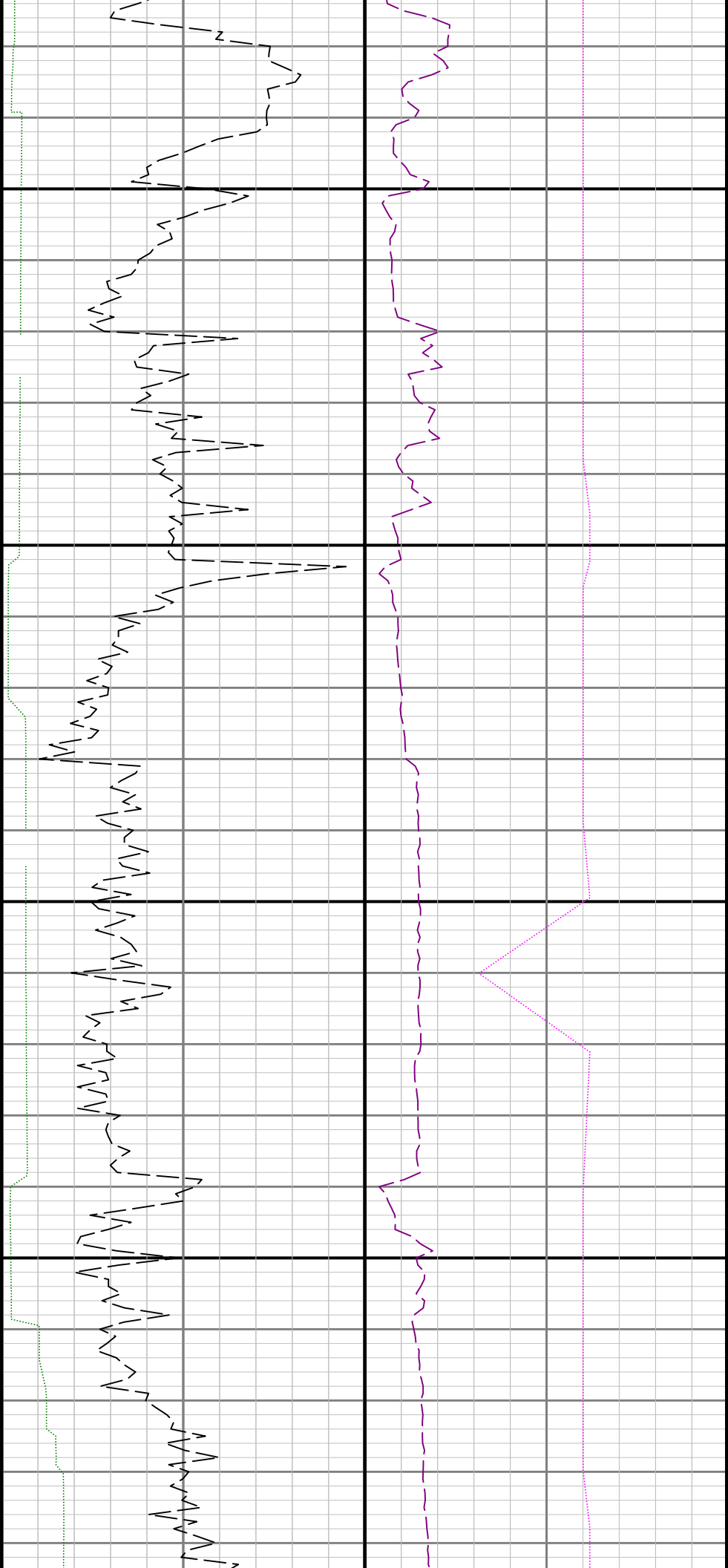
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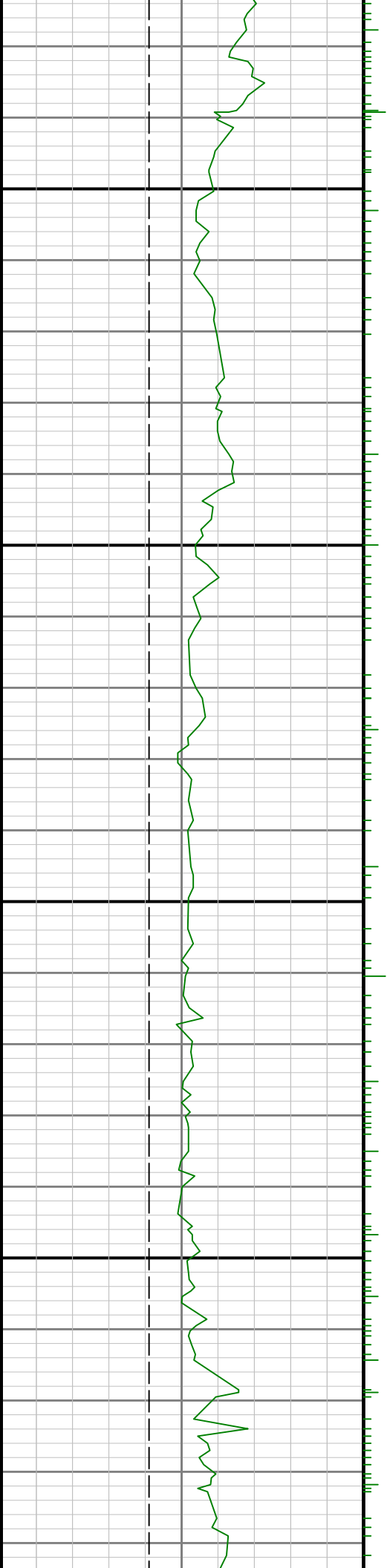


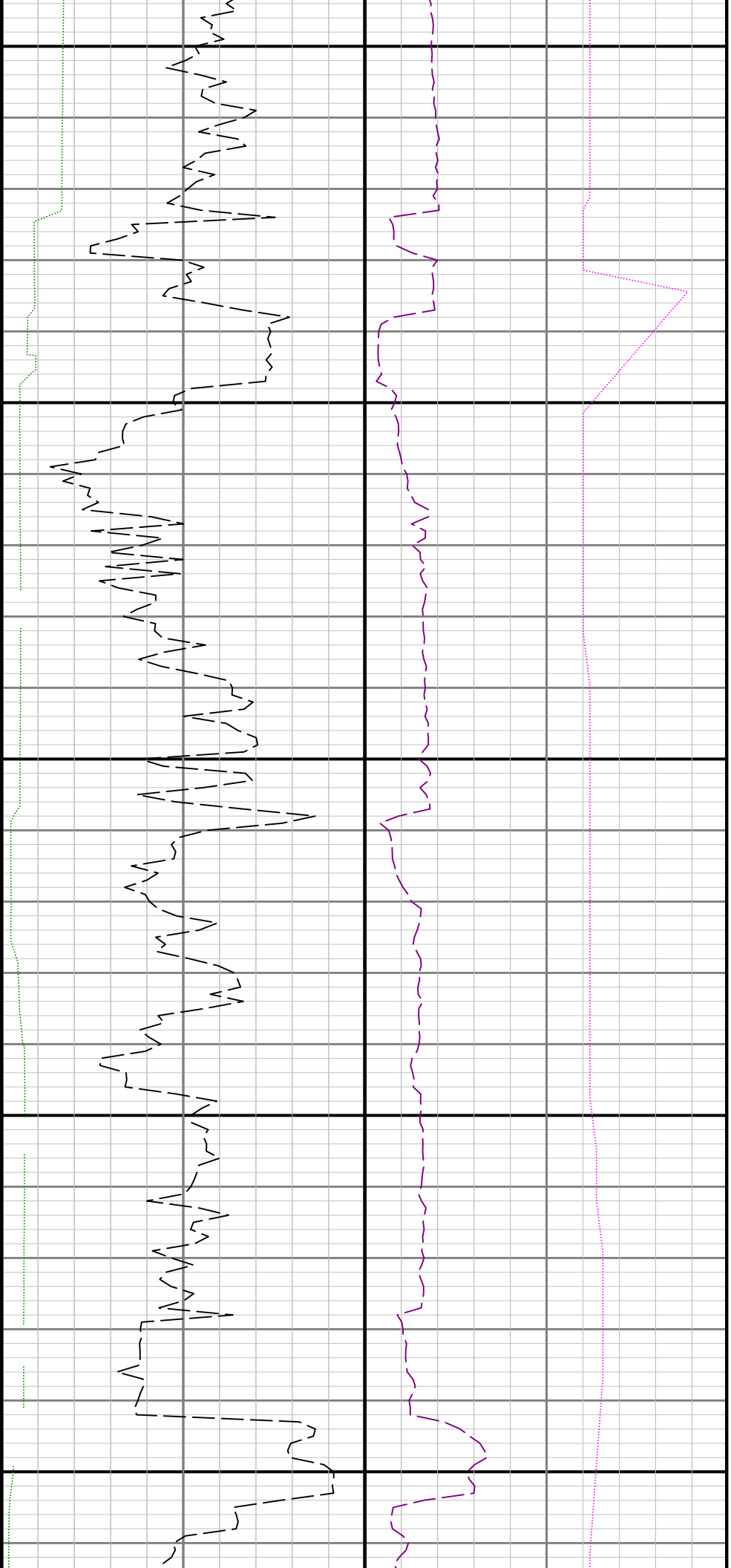




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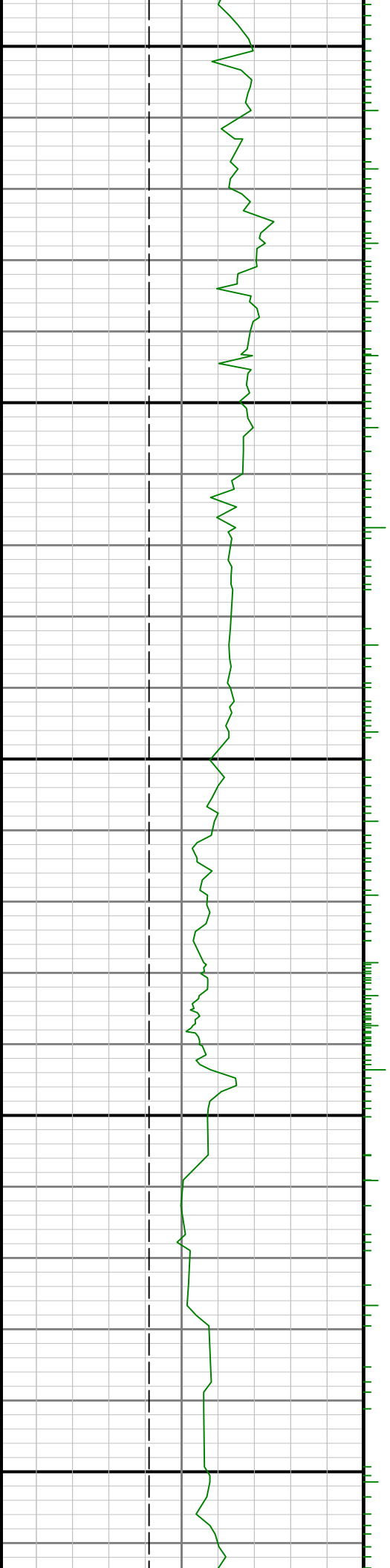
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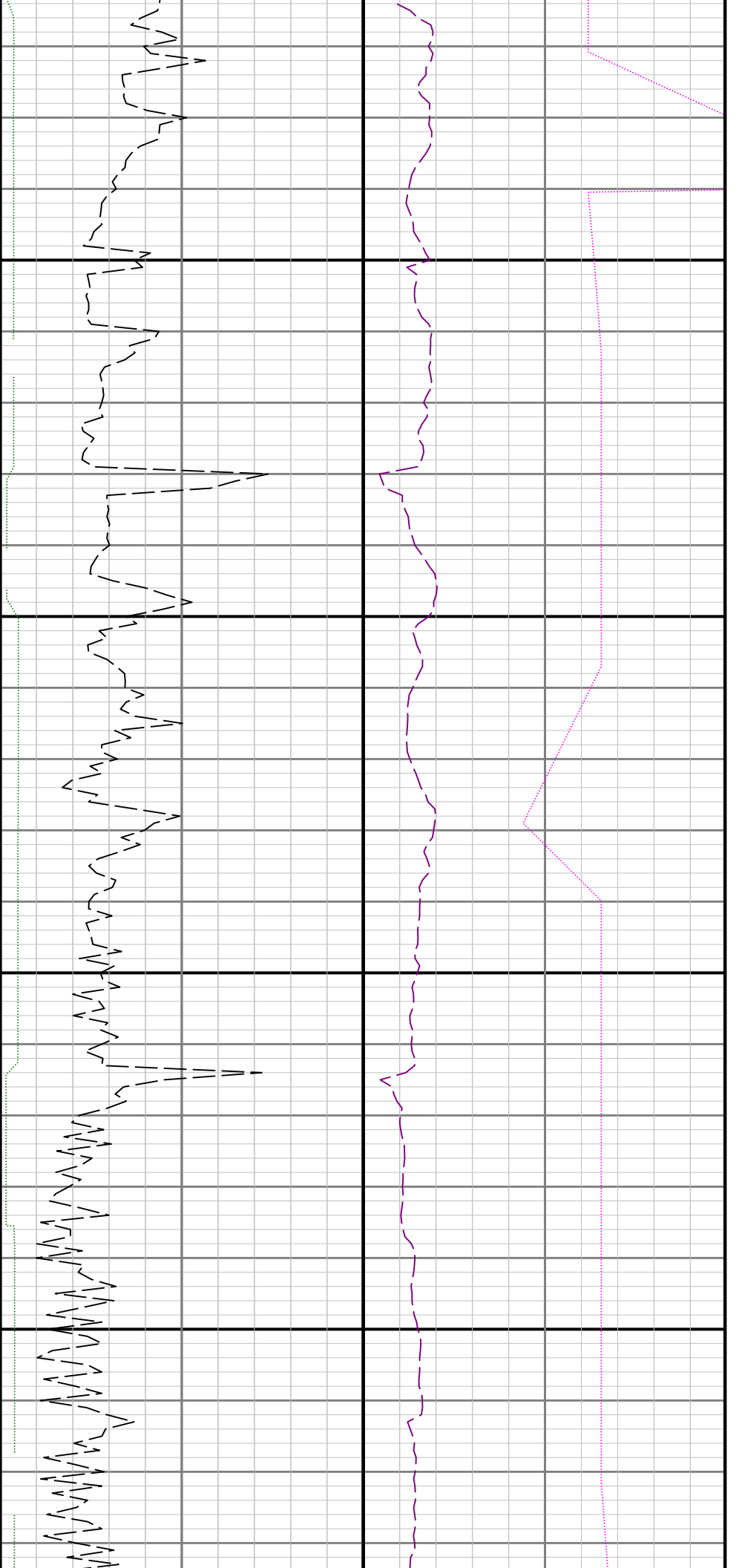




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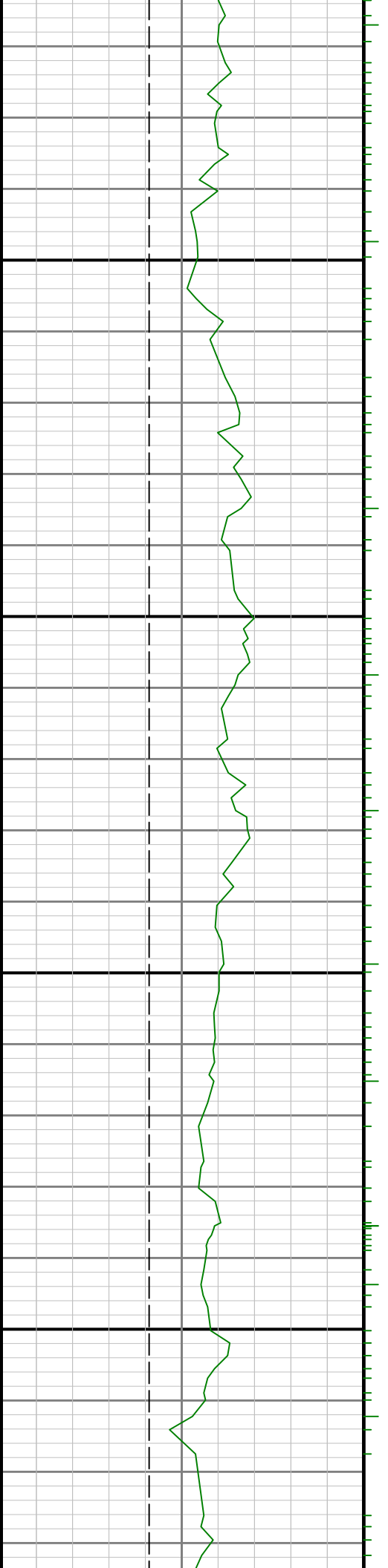
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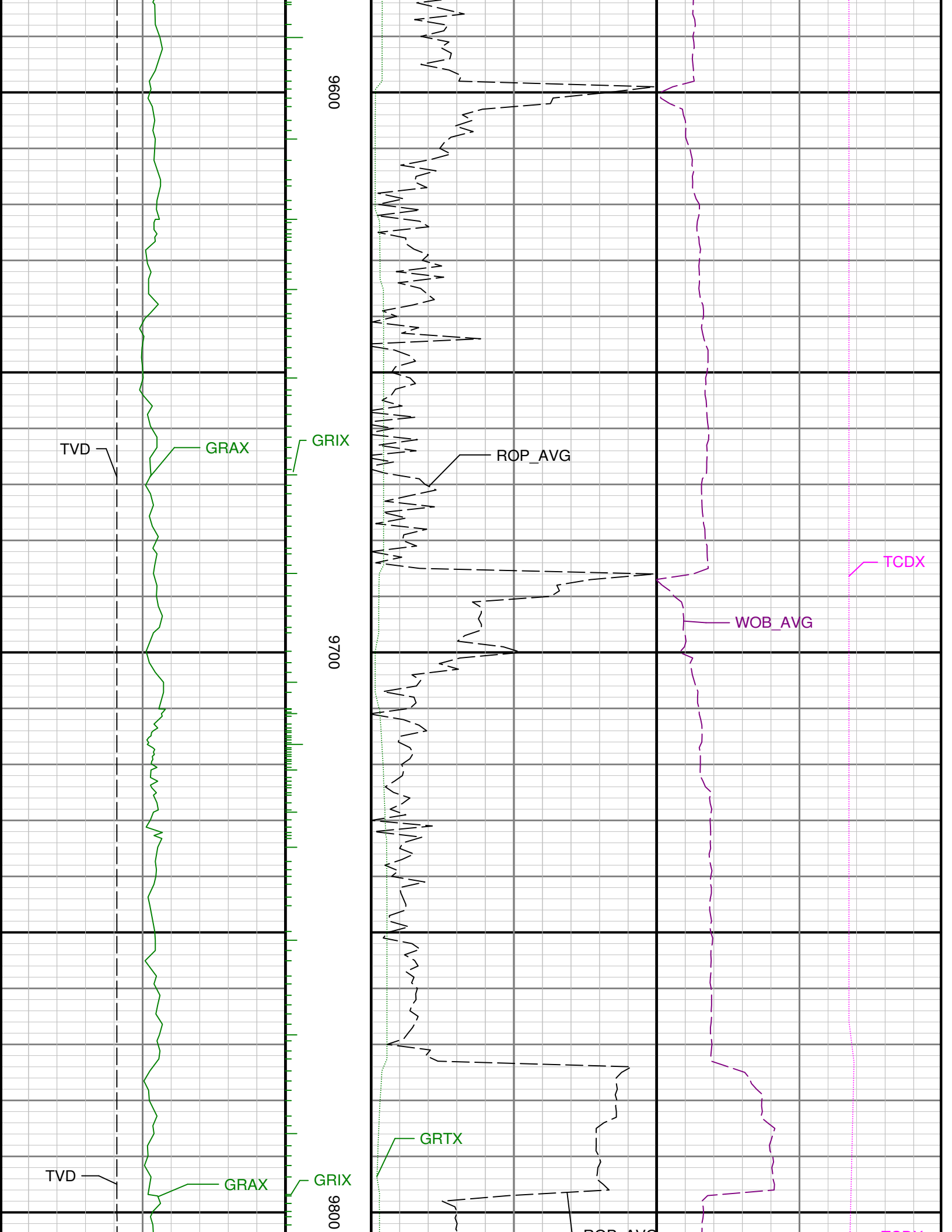


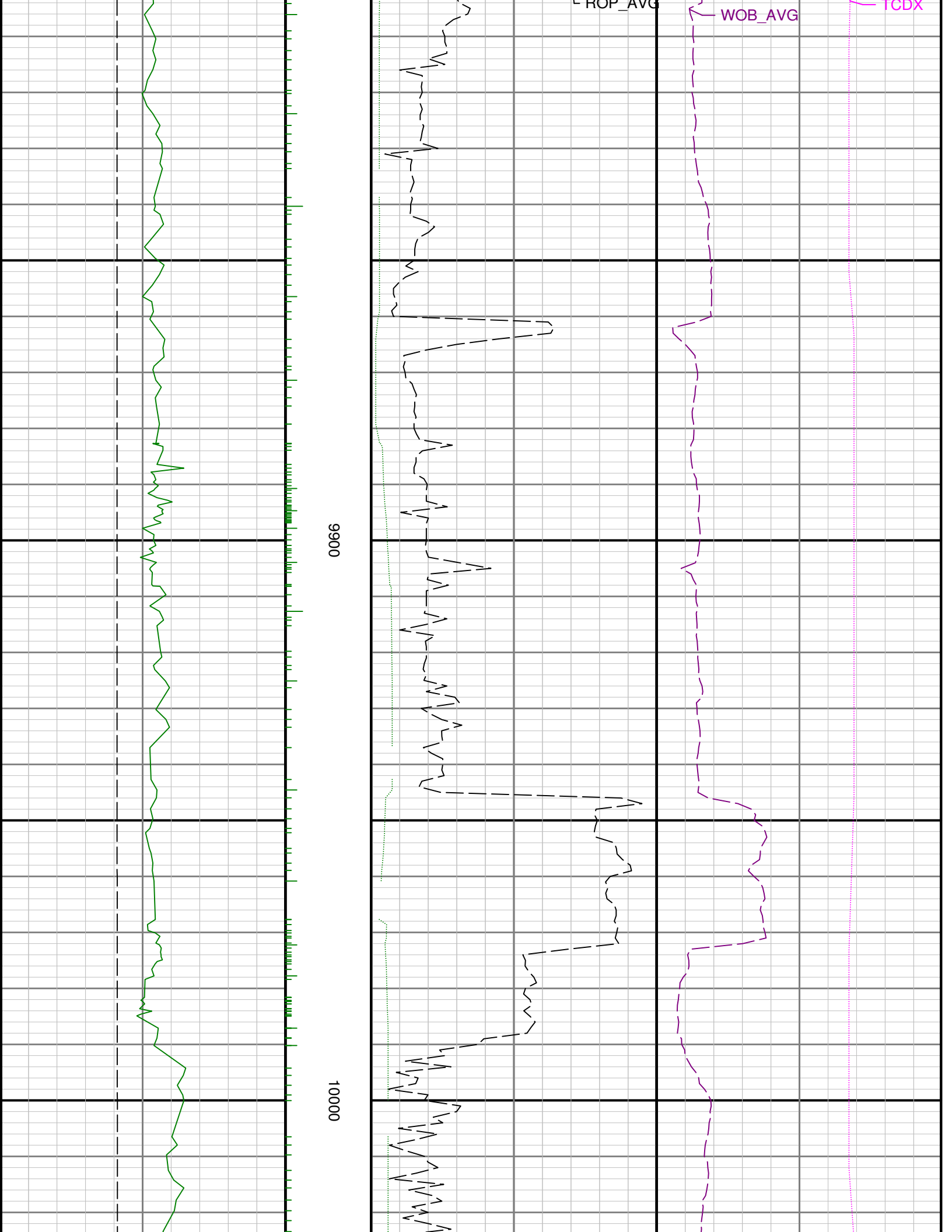


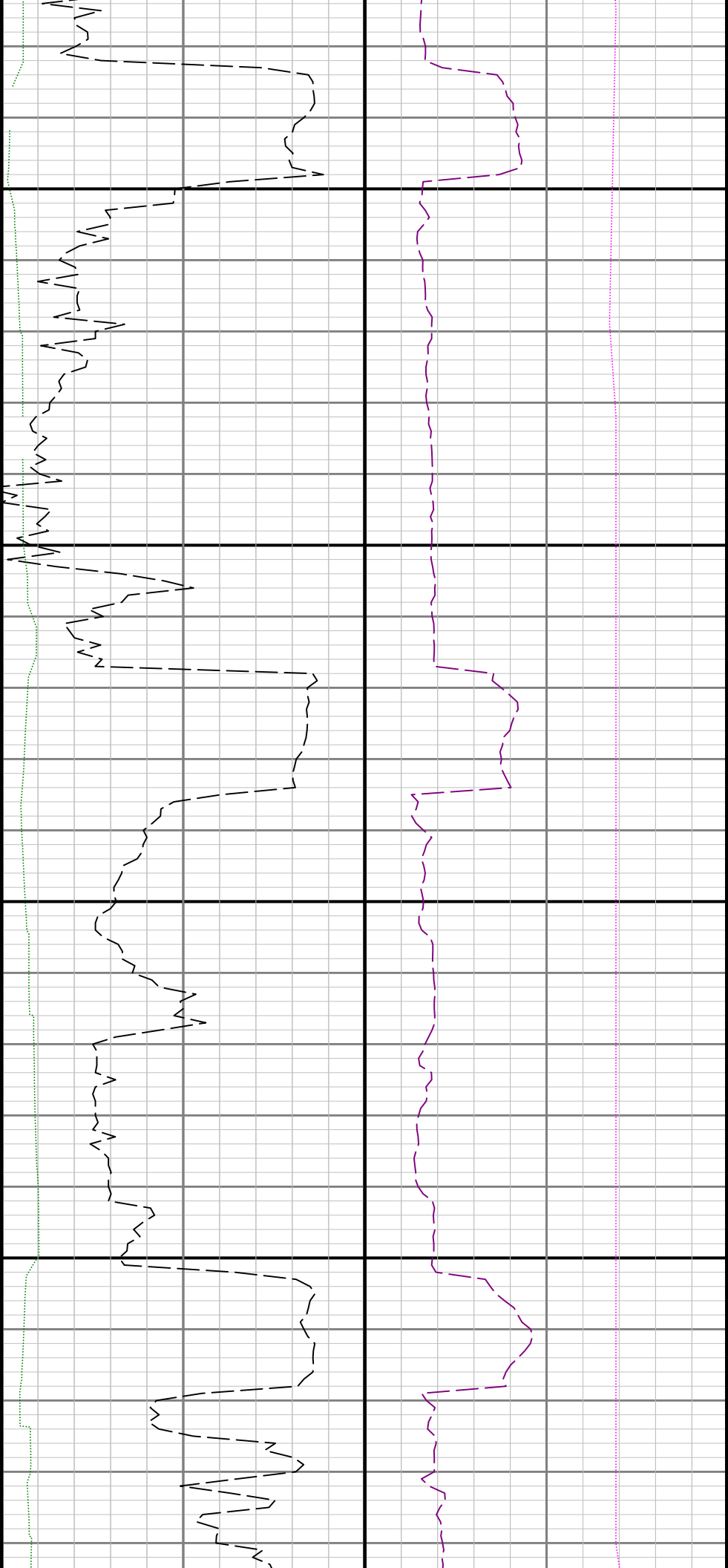
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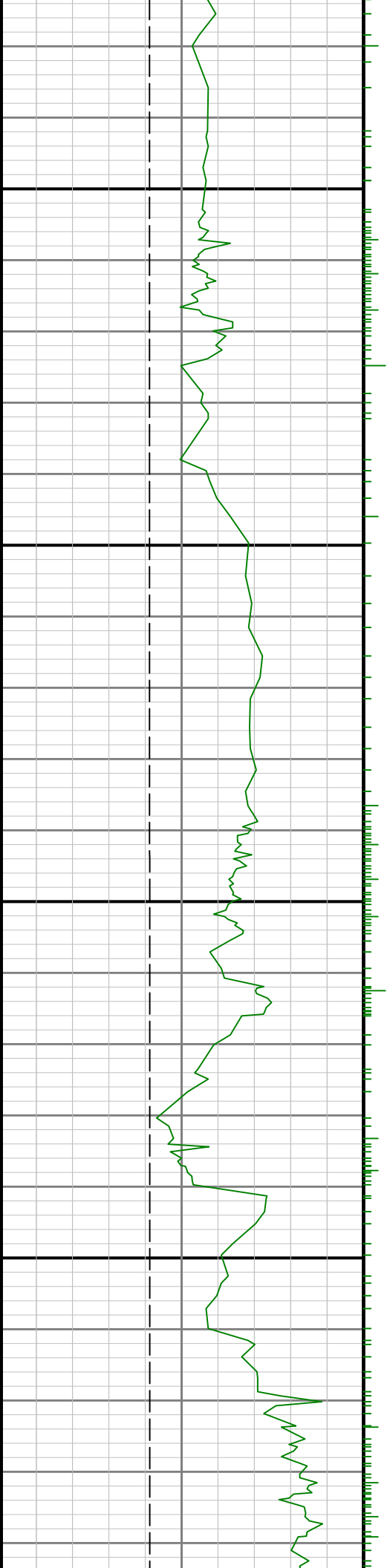


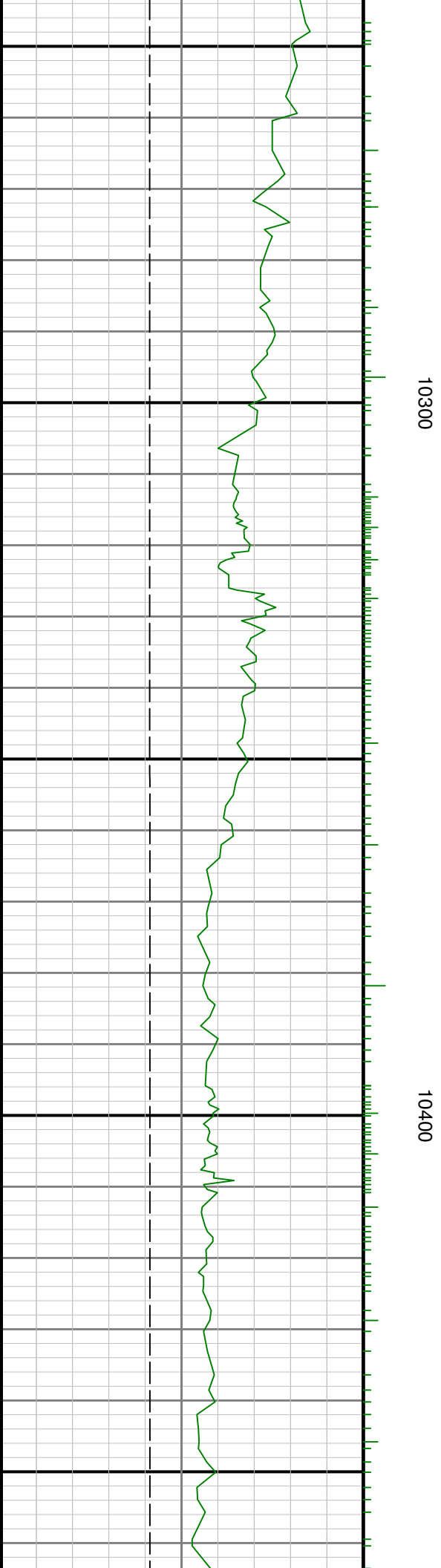
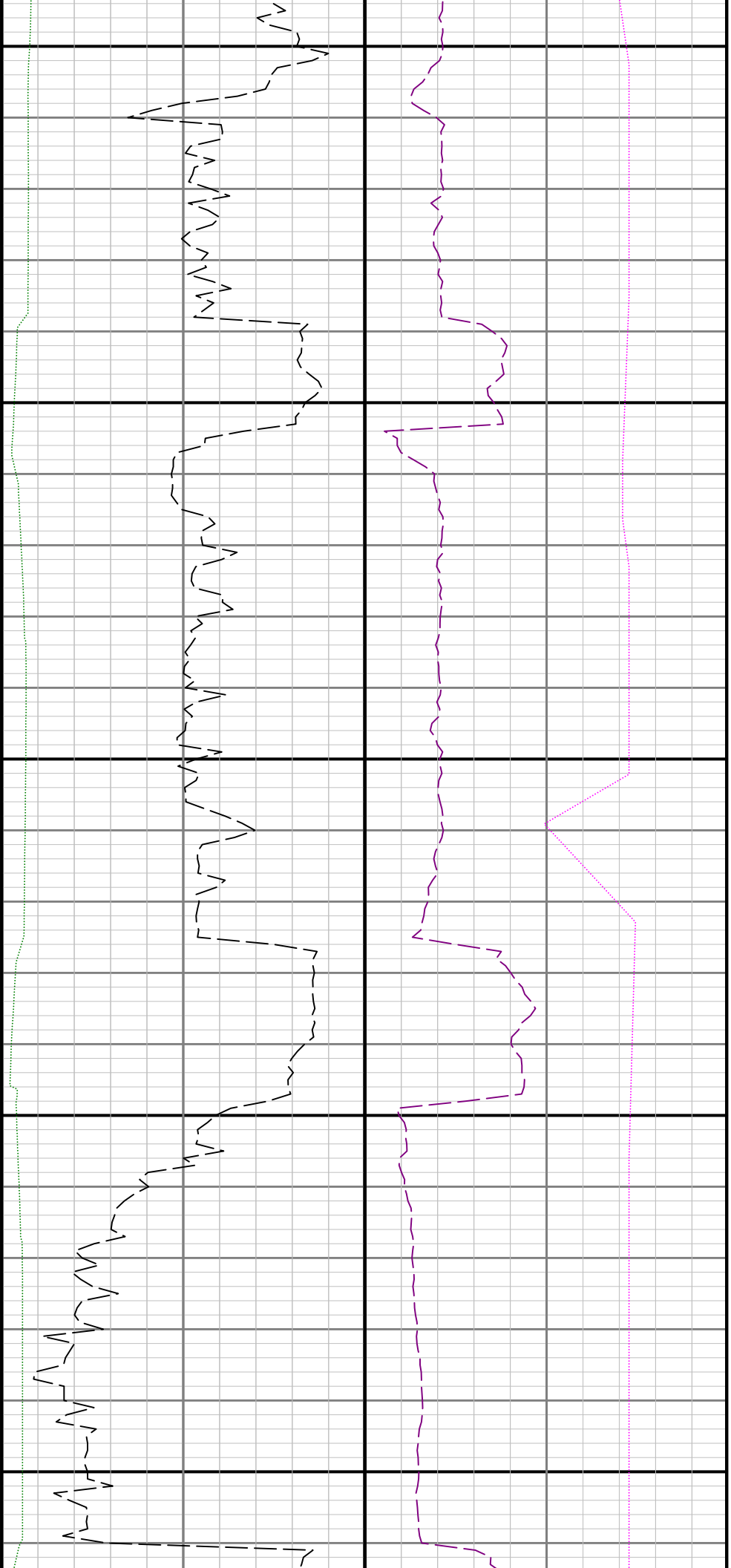


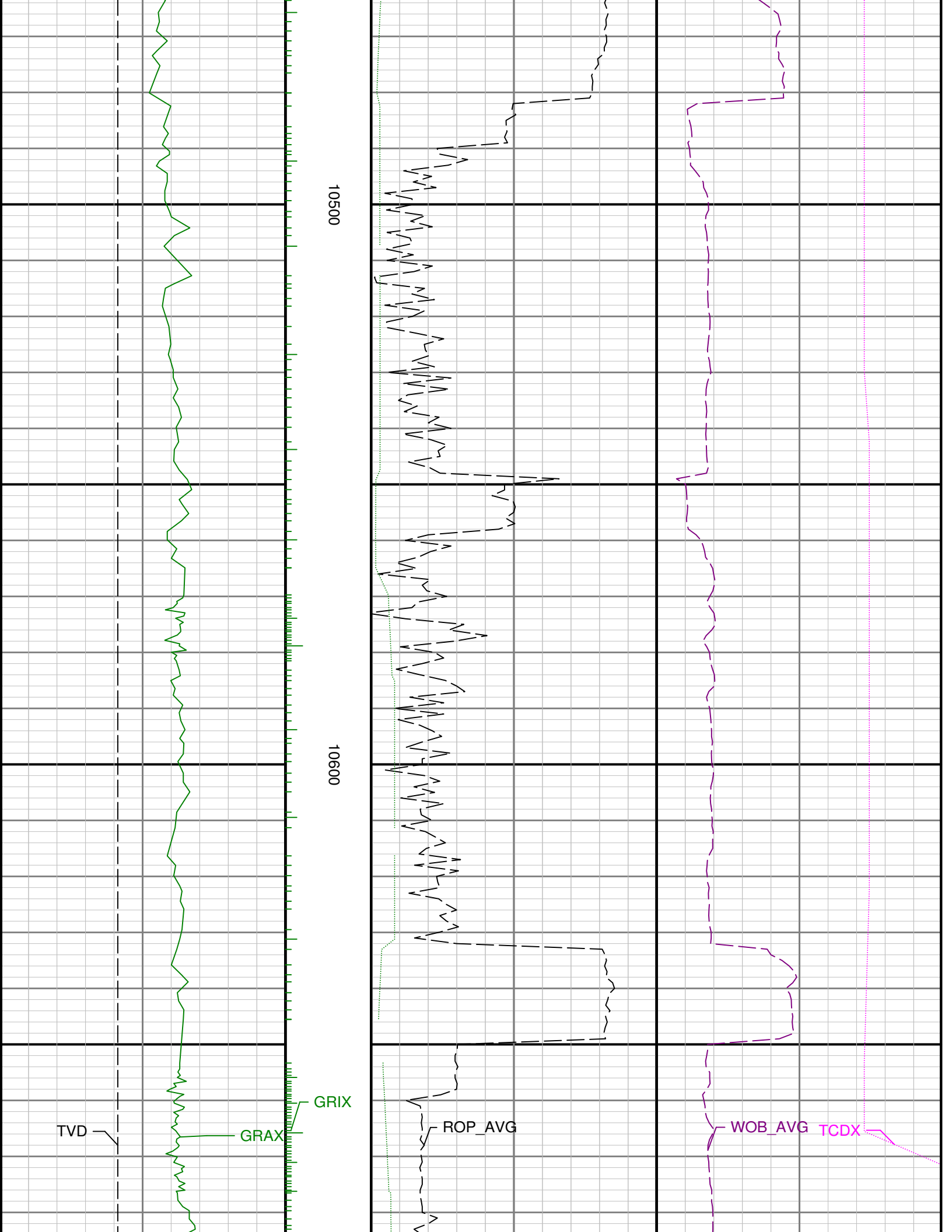


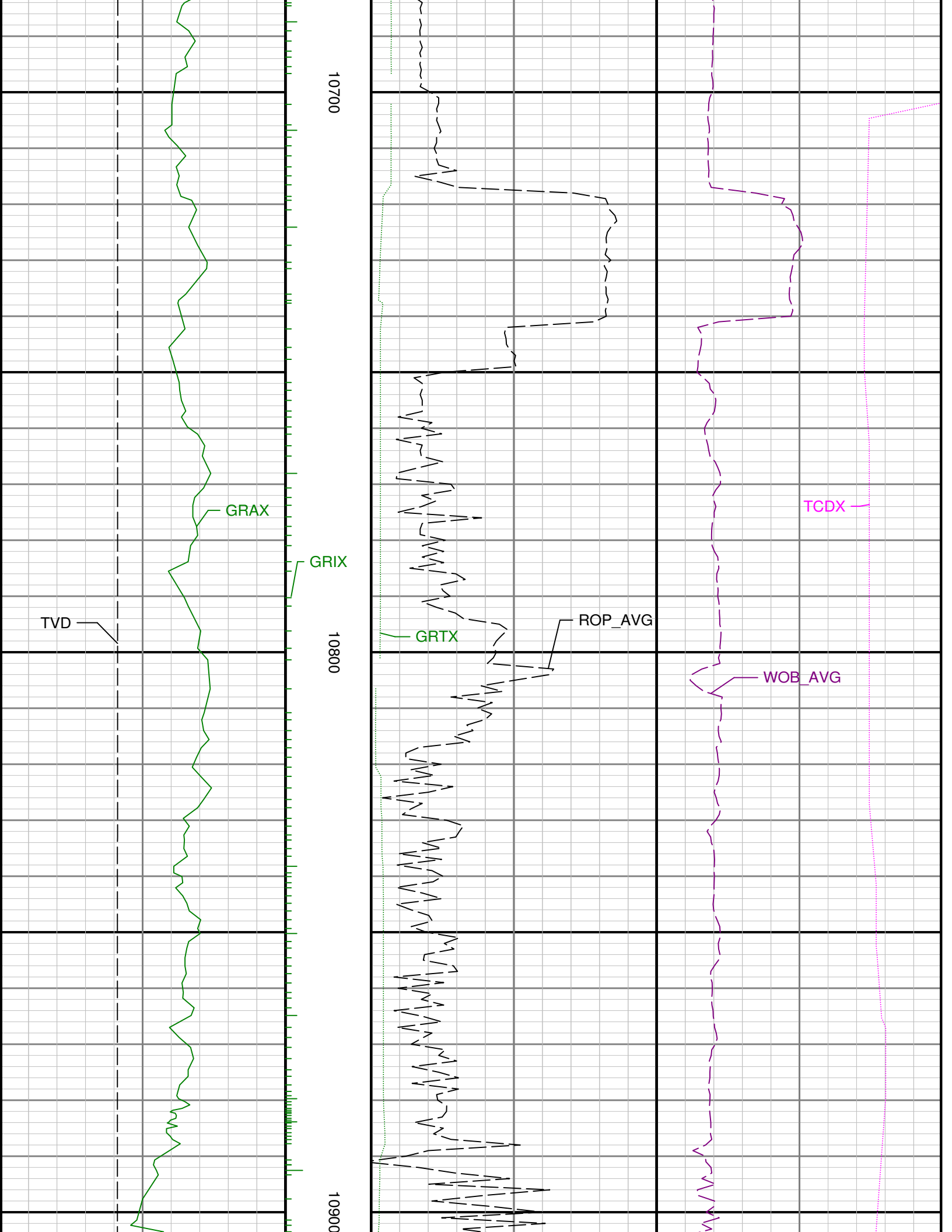
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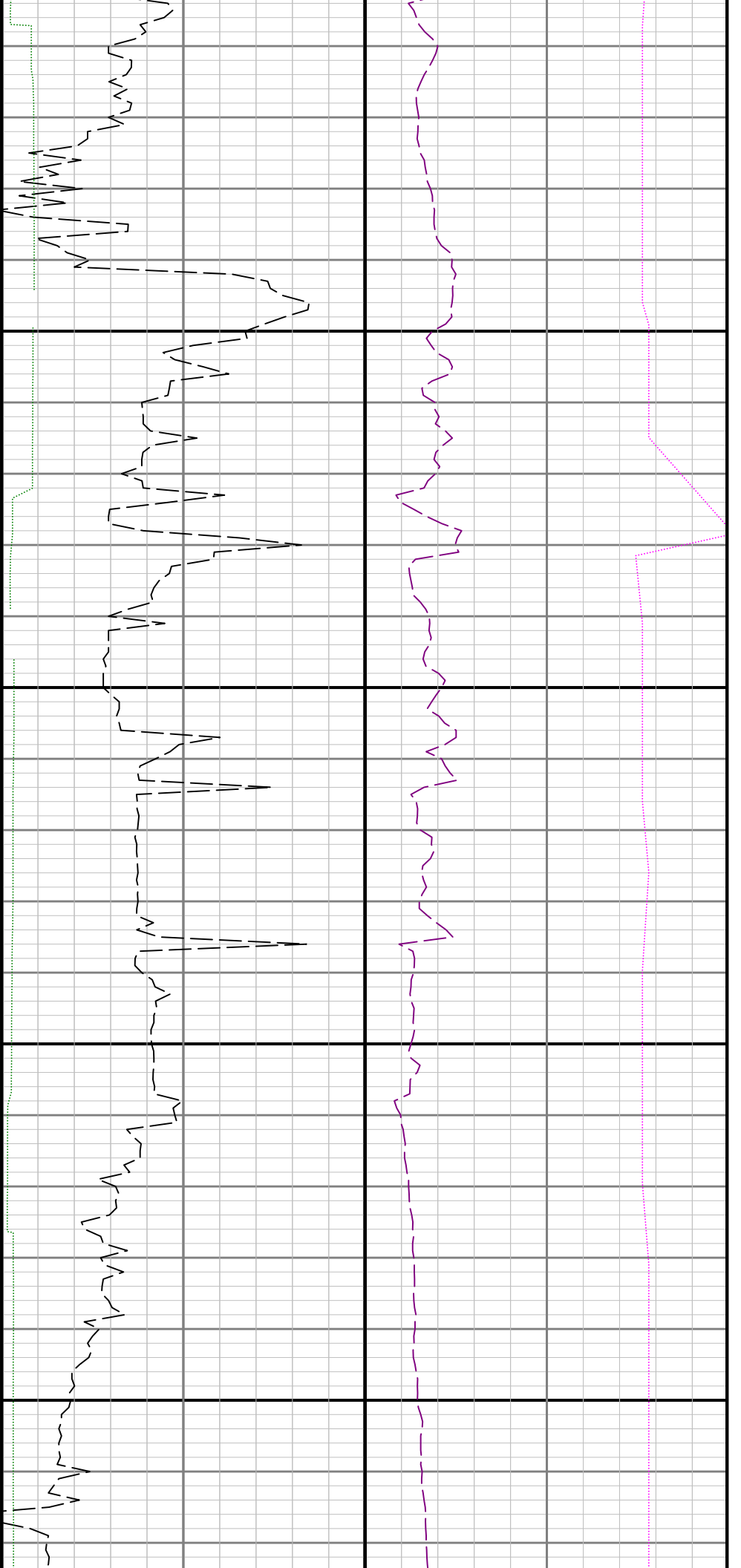
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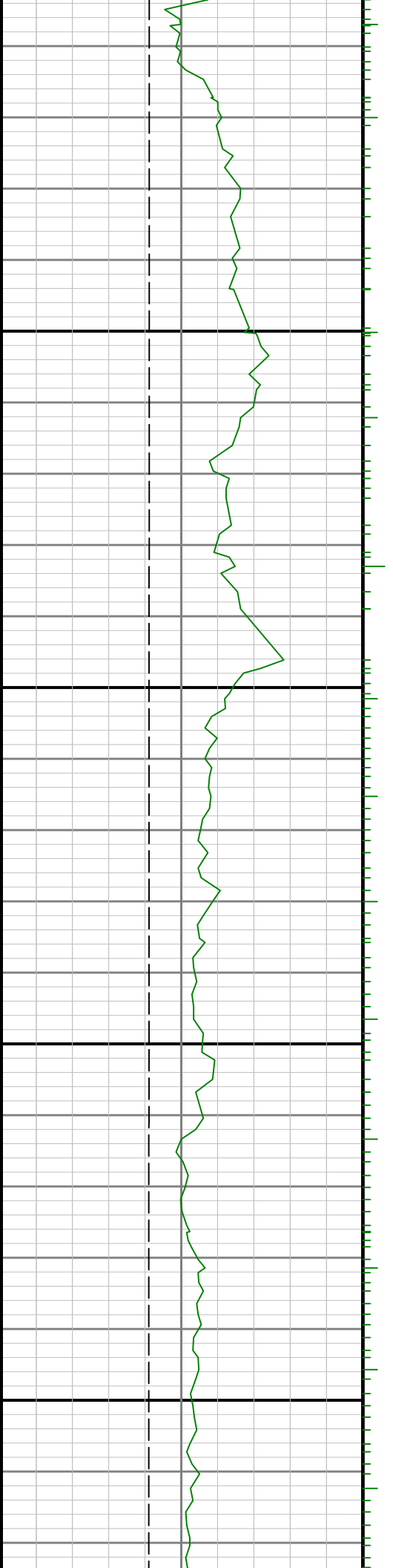


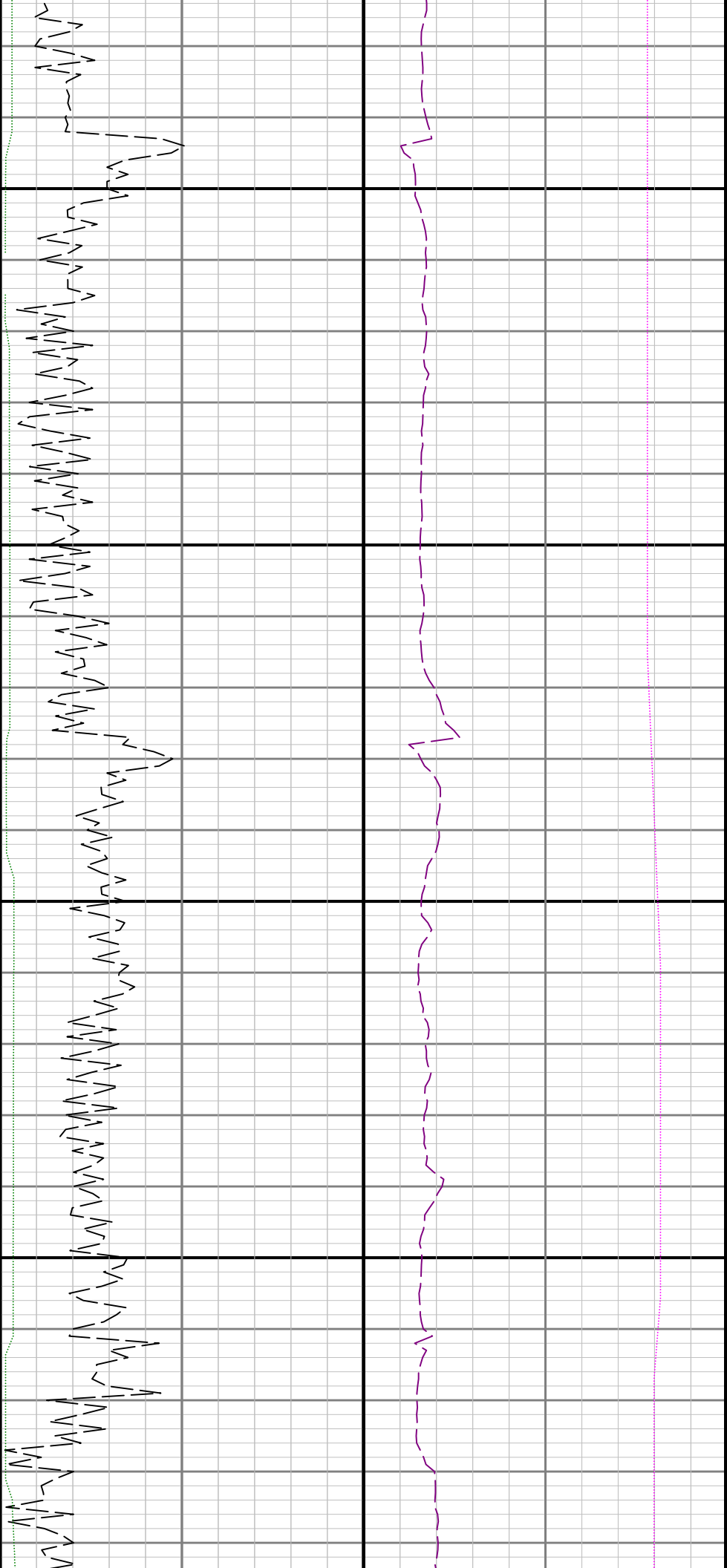




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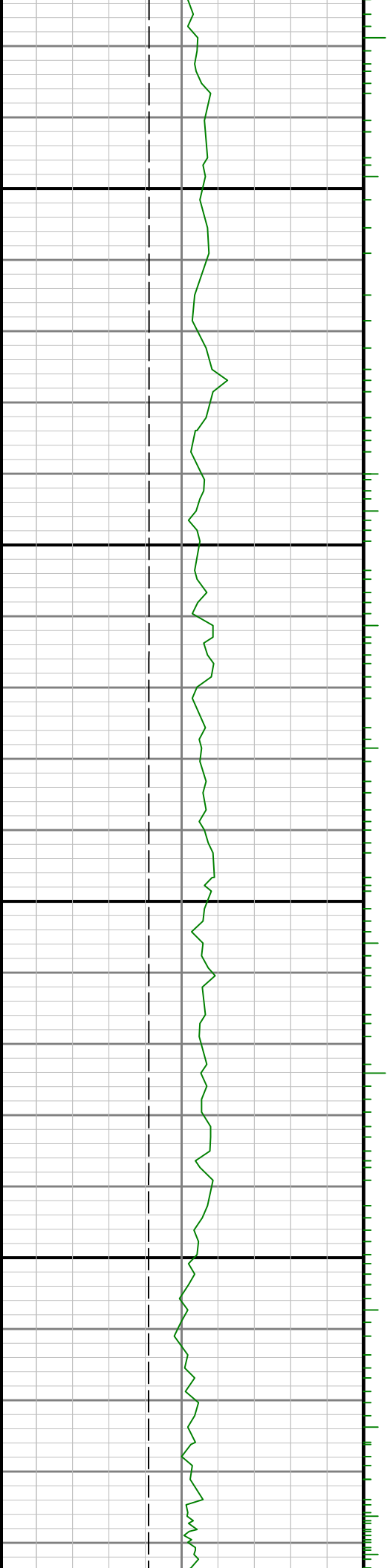
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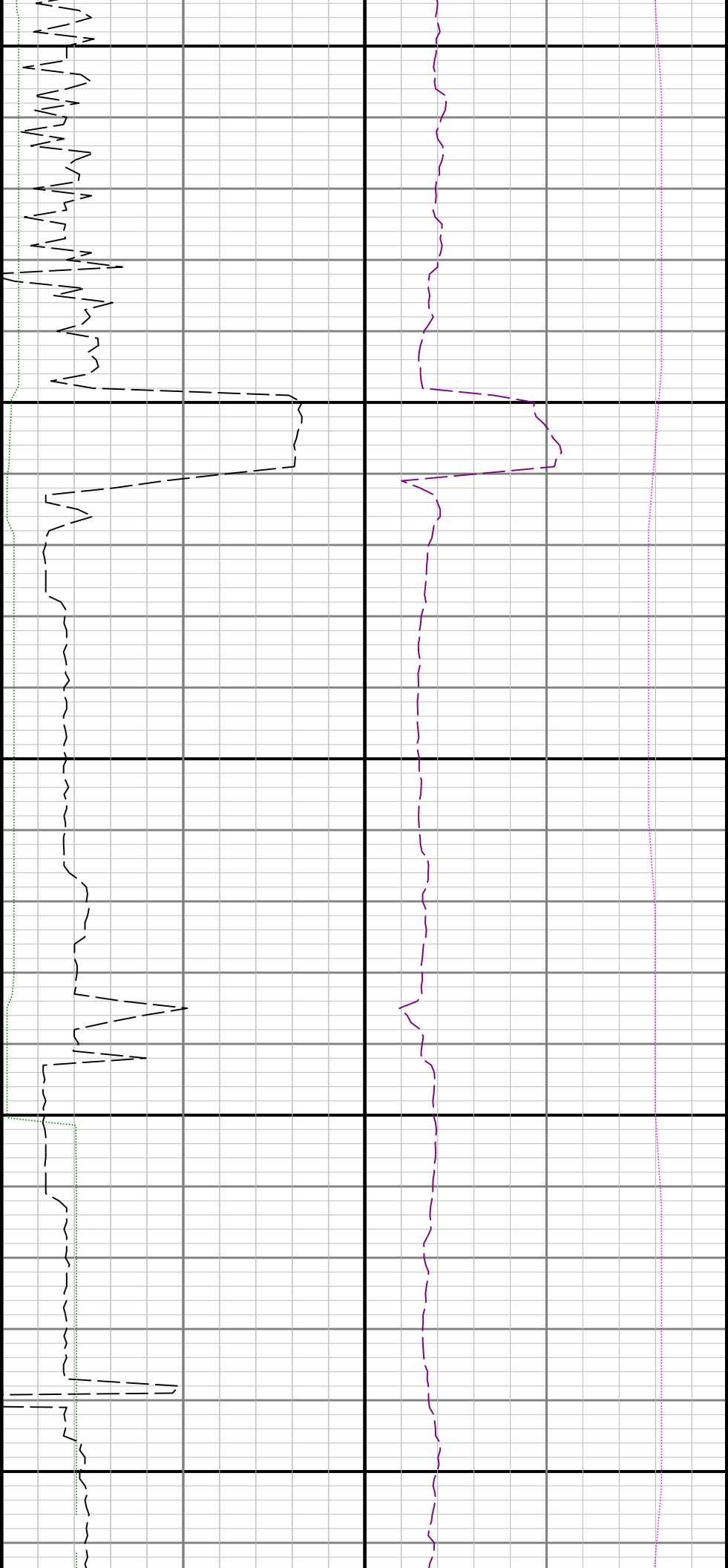




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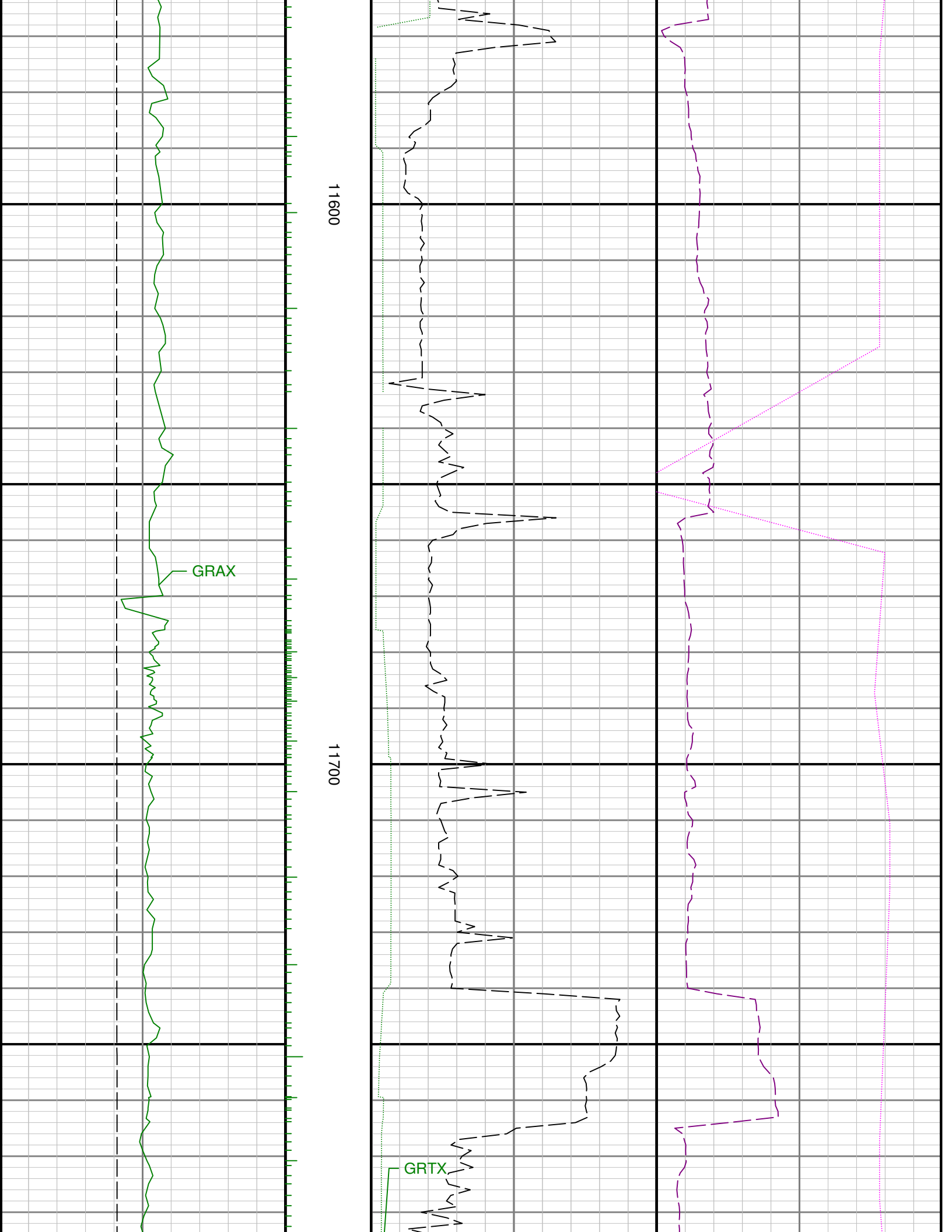
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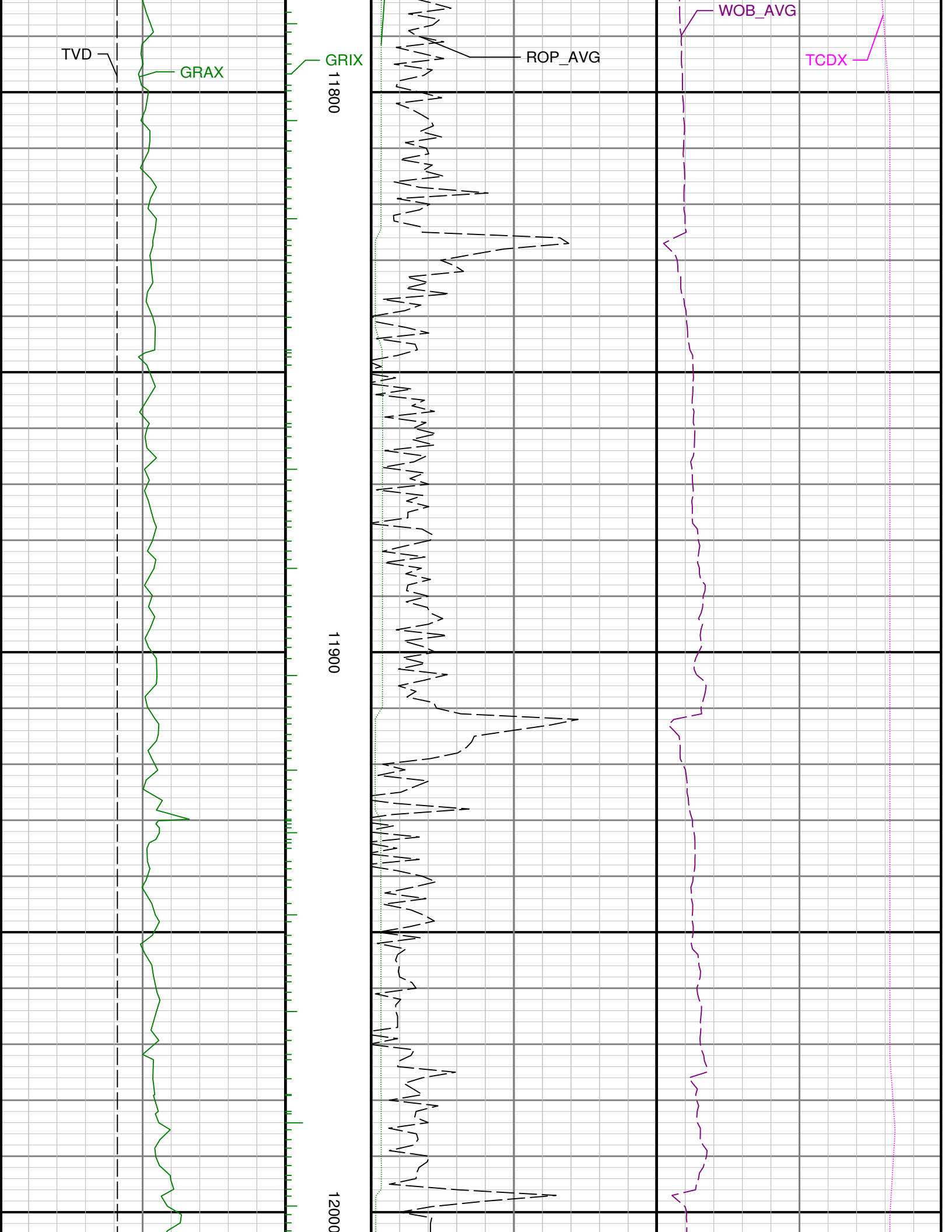


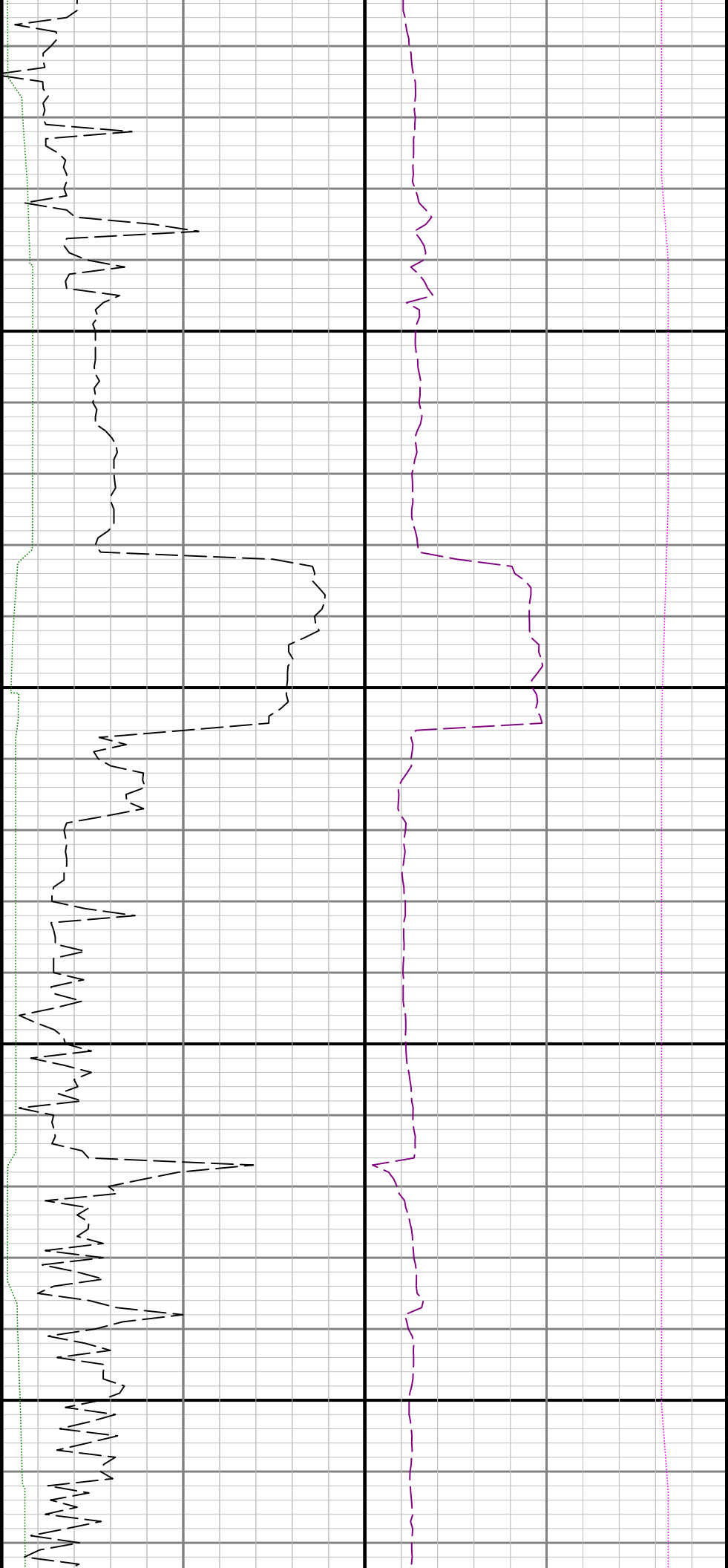


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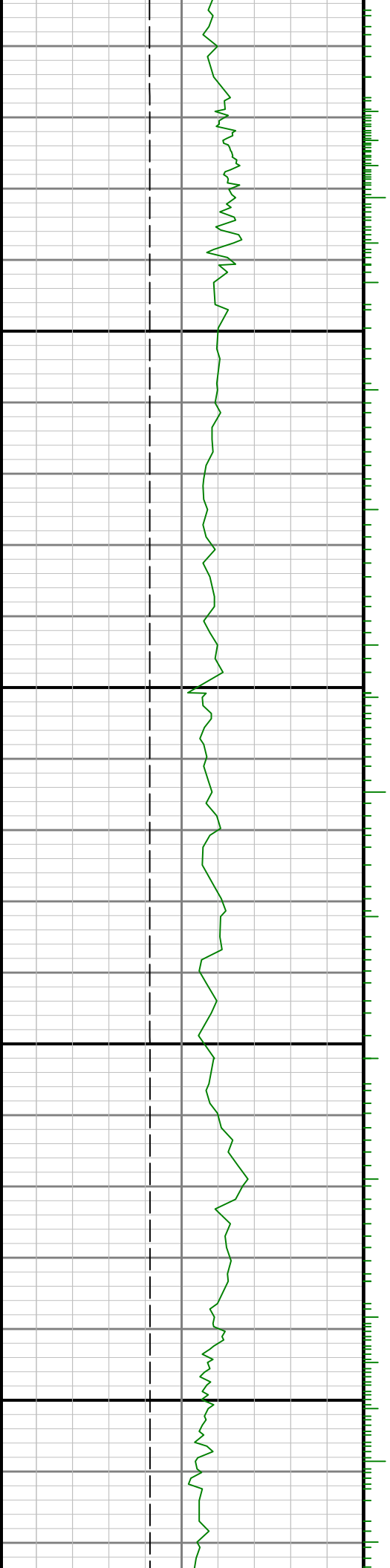


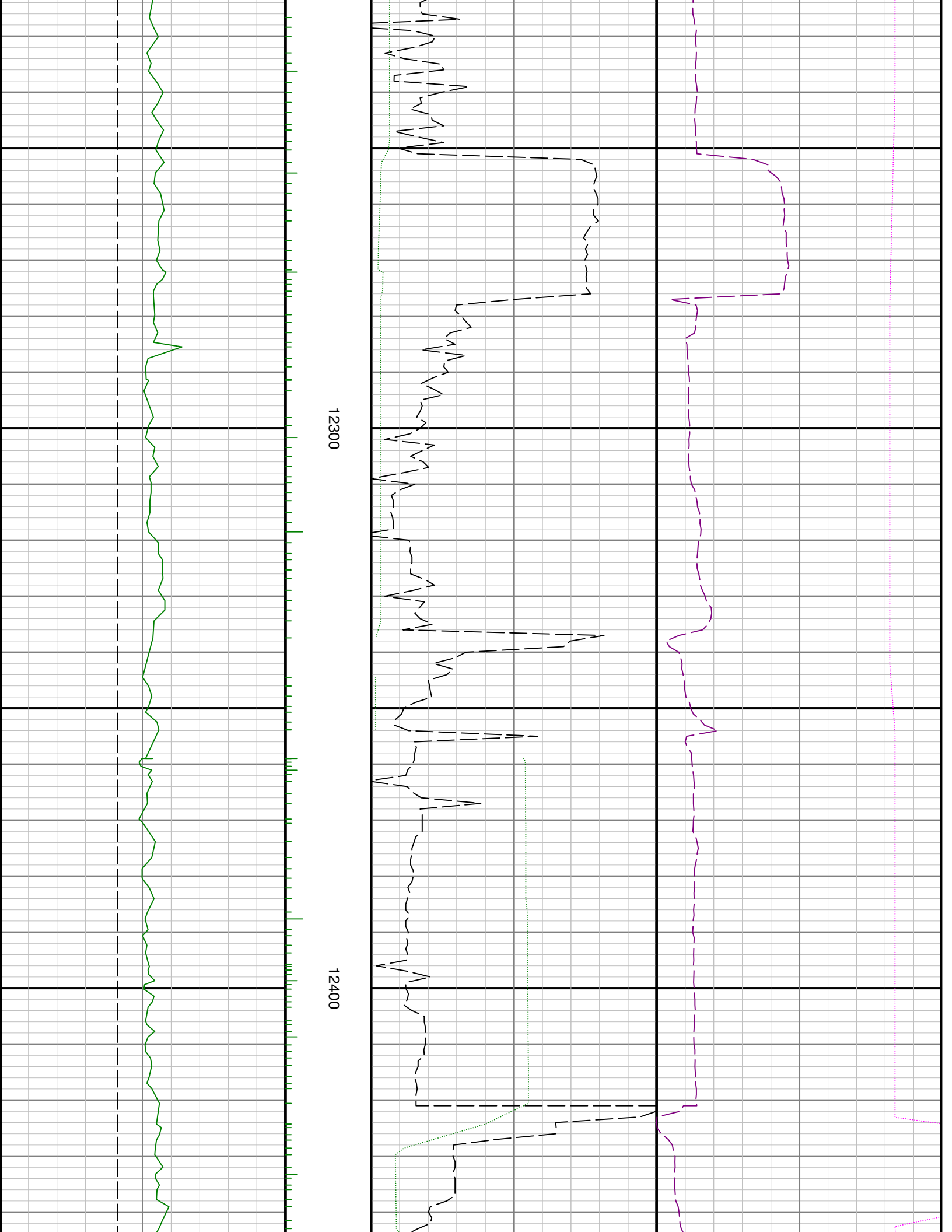


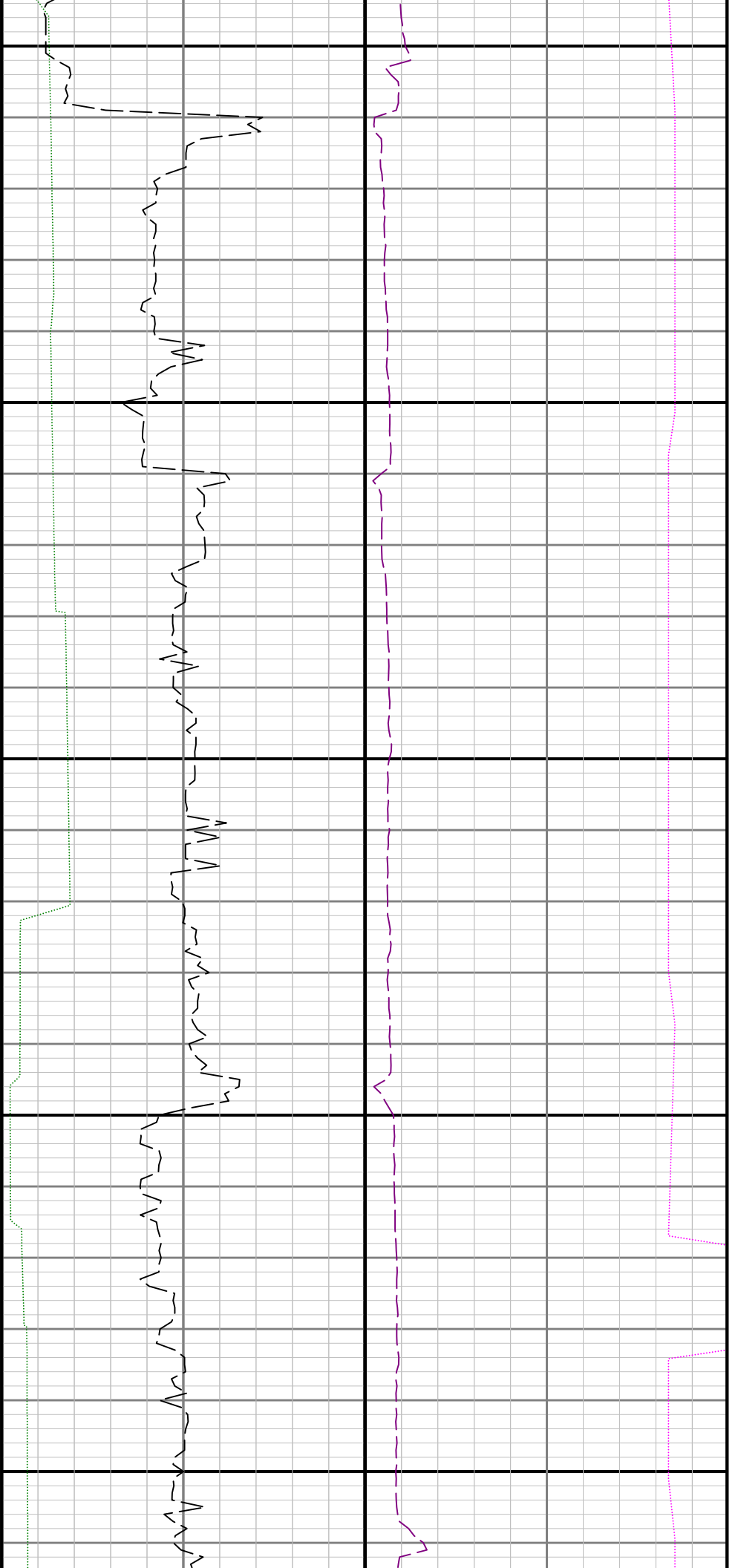


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