

Realtime Logs											
<div>BAKER HUGHES</div>			Natural Formation Evaluation Gamma Ray								
Scale:	1:240 Measured Depth		Company: Anadarko E&P Well: DOUTHIT 1N-27HZ Field: Weld County (Kerr McGee) County: Weld State: Colorado								
Status:	Final Print		Surface Location: Latitude: 40° 12' 0.882" N Longitude: 104° 57' 42.962" W			Other Services: Directional					
API Number:	05123395050000		Section: 26		TWN: 3N		Range66W				
Permanent Datum (P.D.): Ground Level			Elevation:		4959.00 ft.		Elevations: 17.00 ft.				
Log Measured From: Kelly Bushing			4959.00 ft.		Above P.D.		KB: DF: GL: 4942.00 ft.				
Depth Reference: Driller's Depth											
Interval Logged			Dates		Magnetic Field Reference						
Top: 6609 ft.			Date From: 20/Sep/14		Dip Angle: 66.88 °		Azi Reference North: True				
Bottom: 12859 ft.			Date To: 28/Sep/14		Total		Mag to Reference				
Spud Date: 20/Sep/14			Field Strength: 52628.0 nT		North Correction:		8.68 °				
Borehole Record											
Hole Size			From		To		Size		Weight	From	To
13,500 in.			Surface		1315 ft.		9,000 in.		36.00 lb/ft	Surface 1315 ft.	
8,750 in.			1315 ft.		7623 ft.		7,000 in.		36.00 lb/ft	Surface 7613 ft.	
6,125 in.			7623 ft.		13129 ft.						
Mud Record											
Type			From		To		Hole Size		Interval	Inc / Az (Start)	Inc / Az (End)
Water Base			Surface		12923 ft.		13,500 in.		Surface	0.0 ° / 0.0 °	0.1 ° / 244.7 °
							8,750 in.		Vert / Curve	0.1 / 244.7 °	83.4 ° / 266.2 °
							6,125 in.		Lateral	83.4 ° / 266.2 °	91.0 ° / 273.3 °
									/	/	
									/	/	
									/	/	
Acquisition System Software Version											
Advantage			2,20U4		Rig: / Contractor:		Xtreme 8		Other / Xtreme Coild Drilling		
PATS			6,4,1,34		Job No:		6530639		/ 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	
2	2	2	8.750	PDC		Mud Motor	6609	7596	6609	7623	21/Sep/2014 18:21	23/Sep/2014 05:45	23.62
3	3	4	6.125	PDC		Mud Motor	7596	11913	7623	11969	24/Sep/2014 06:24	24/Sep/2014 01:15	35.5
4	4	5	6.125	PDC		Mud Motor	11913	12859	11969	12923	27/Sep/2014 02:42	27/Sep/2014 02:42	12.39

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite

Kevin Sheridan	09/20/2014	09/28/2014	Shirley Arimah	09/20/2014	09/28/2014			
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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+ (%)
09/23/2014	15:45	2	7875	Water- Based	10.4	46	9.7	N.A	2/89	Active Pits	2900	N/A
09/25/2014	20:10	3	9281	Water- Based	9.4	40	9.6	N/A	2/92	Active Pits	2400	N/A
09/27/2014	21:00	4	12823	Water- Based	9.3	43	9.6	N/A	3/92	Active 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.

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (m.)	Max O.D. (in.)	Min I.D. (in.)
1	SRIG	12899613	Gamma	58.64	6.750	3.250
1	DIR	10508935	Directional	62.01	6.750	3.250
2	SRIG	12899613	Gamma	58.60	6.750	3.250
2	DIR	10508935	Directional	61.98	6.750	3.250
3	SRIG	12816078	Gamma	62.55	2.750	2.750
3	DIR	12546347	Directional	65.93	4.750	2.750
4	SRIG	12816078	Gamma	62.55	2.750	2.750
4	DIR	12546347	Directional	65.93	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

Comments

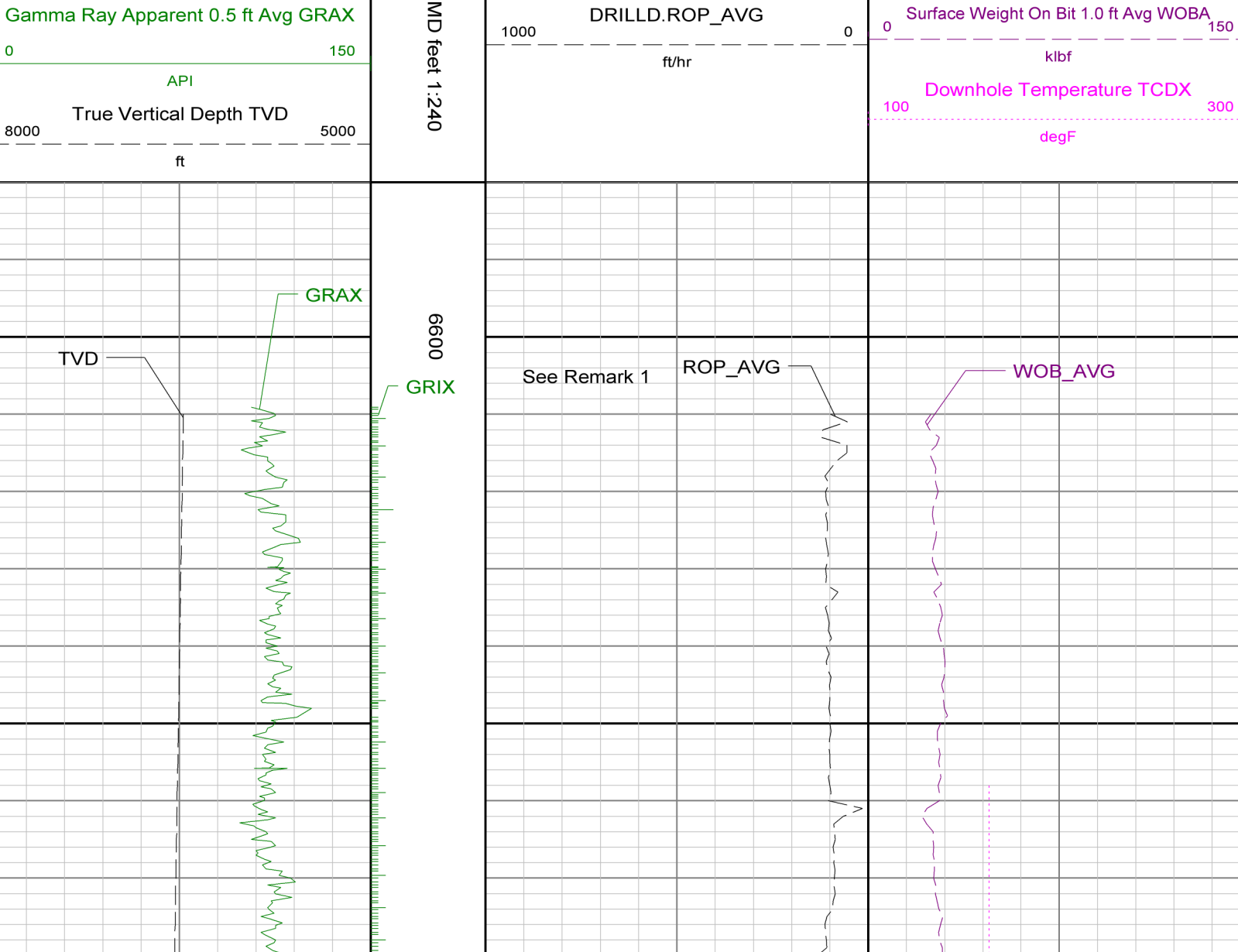
1) Baker Hughes INTEQ runs 1 and 2 utilized a 6.5 inch NaviGamma (Gamma Ray and Directional) tool behind a 8 3/4inch bit and steerable assembly from surface to 7623 ft. MD (7109 ft. TVD).
2) Baker Hughes INTEQ runs 3 and 4 utilized a 4.75 inch NaviGamma (Gamma Ray and Directional) tool behind a 6 1/8 inch bit and steerable assembly from 7623 to 12923 ft. MD (7109 to 7115 ft. TVD).

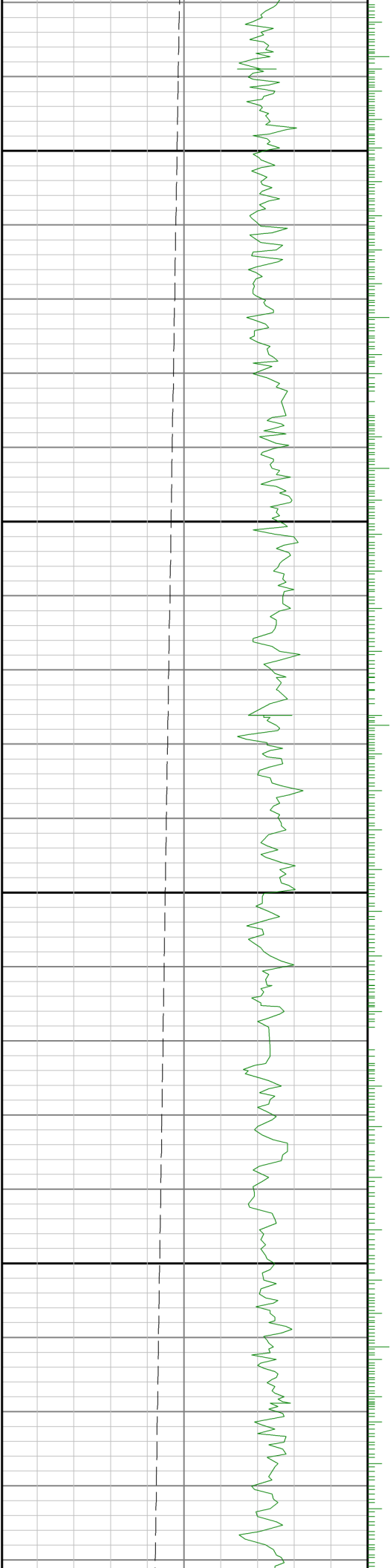
Remarks

Number	Measured Depth (m.)	Hole Section (in.)	LWD Run No.	Remark
1	6609	8.750	2	The interval from surface to 6609 feet MD (6473 feet TVD) was logged due to gamma offset at the start of the curve.
2	7875	6.125	3	The interval from 7596 to 7623 feet MD (7107 to 7109 feet TVD) was logged up to 36 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	11969	6.125	4	The interval from 11913 to 11969 feet MD (7116 feet TVD) was logged up to 24 hours after drilling due to tripping out of the hole for LWD failure.
4	12923	6.125	4	The interval from 12859 to 12923 feet MD (7116 to 7115 feet TVD) was not logged due to sensor offsets to bit at TD.



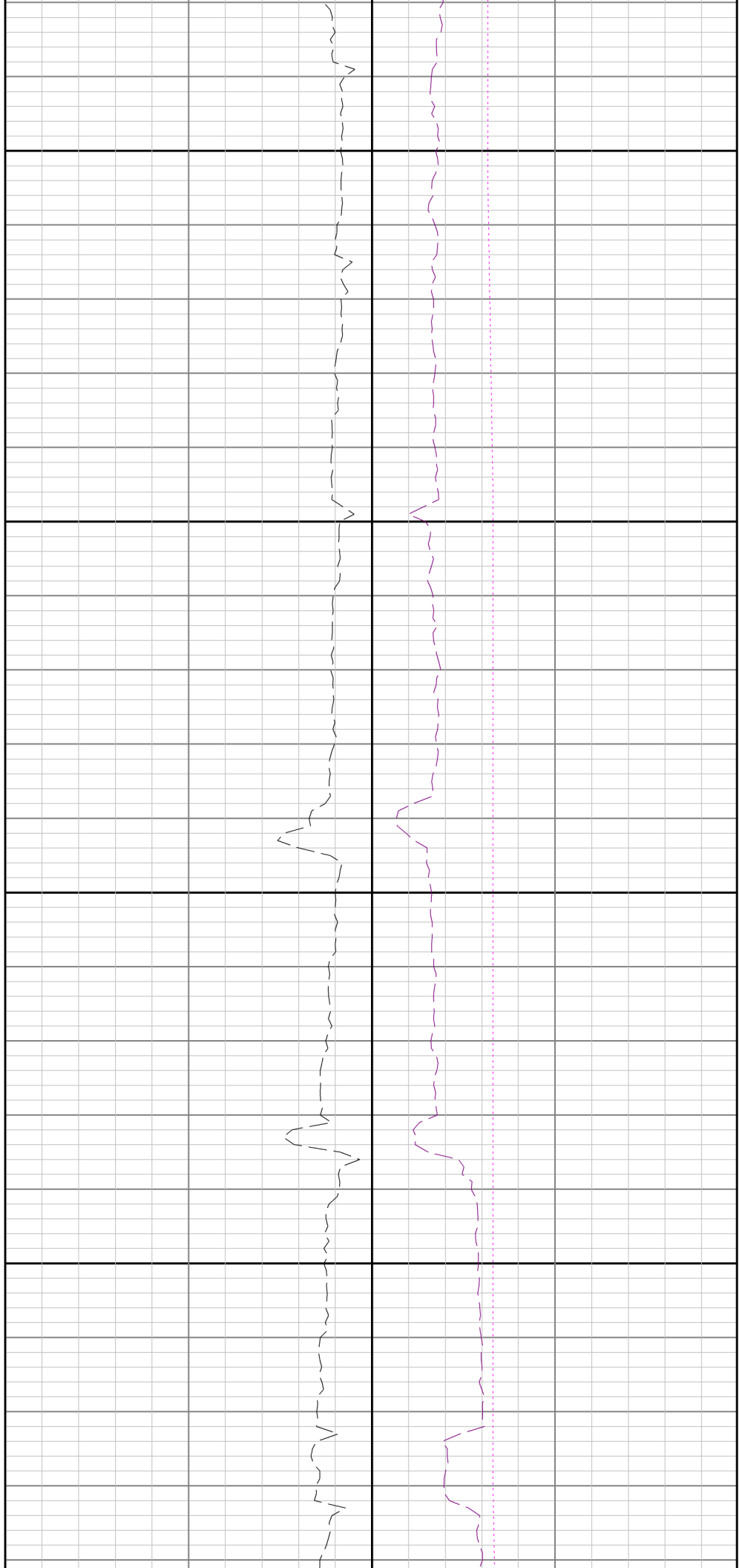
Company : Anadarko E&P
Well : DOUTHIT 1N-27HZ
Interval : 6580.00 - 12940.00 feet
Created : 28/Sep/2014 3:11:20 AM

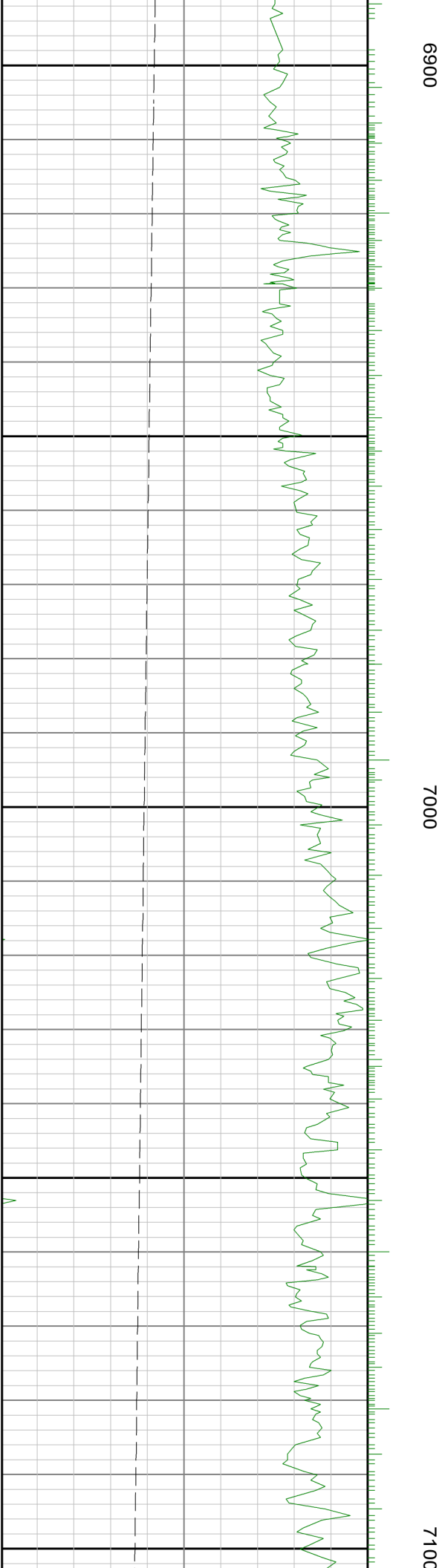
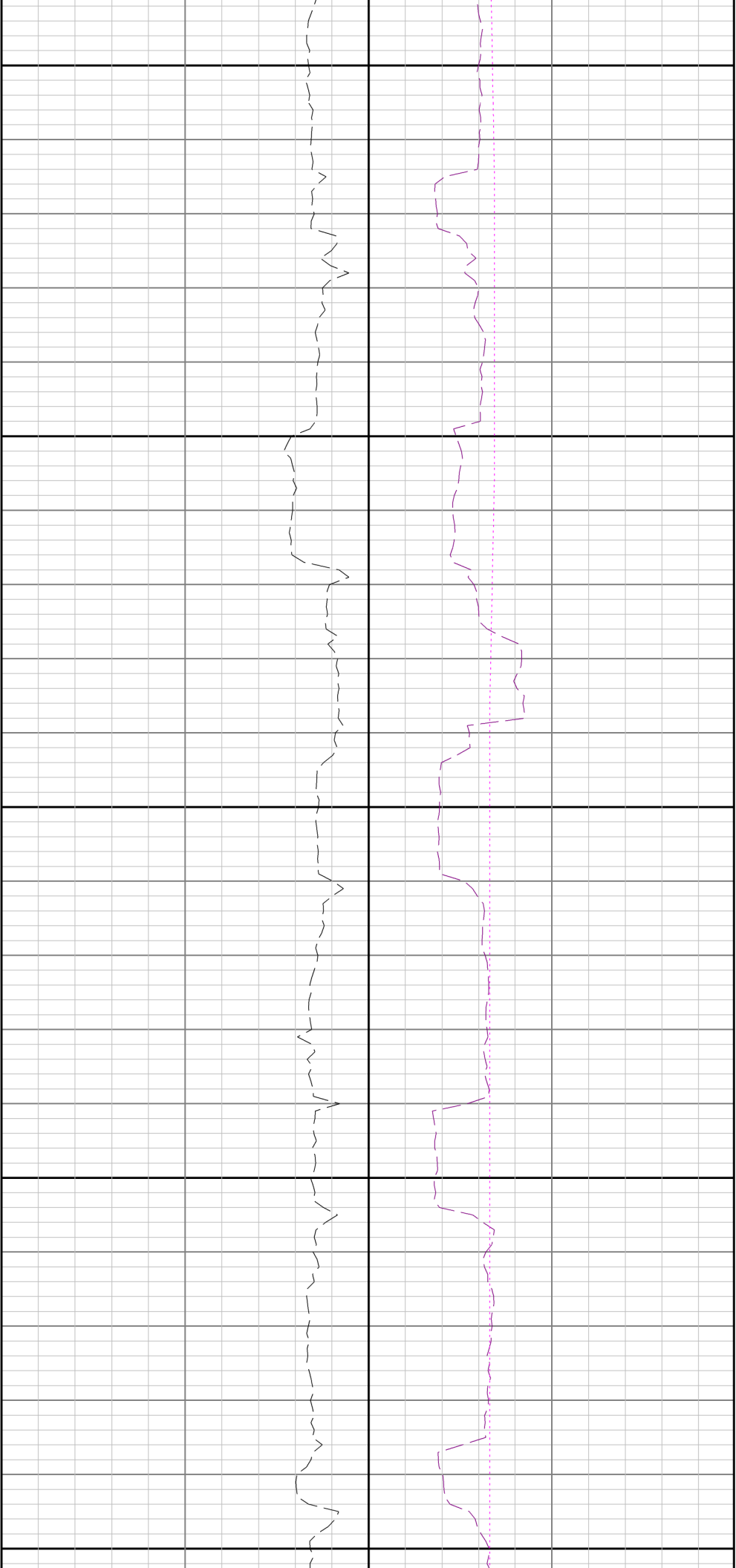


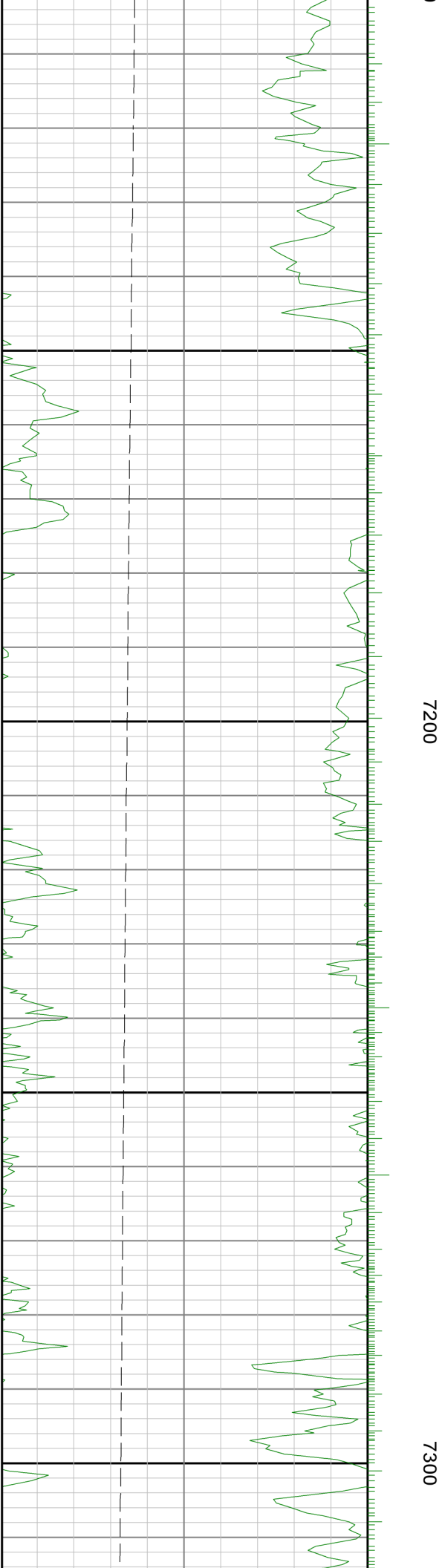
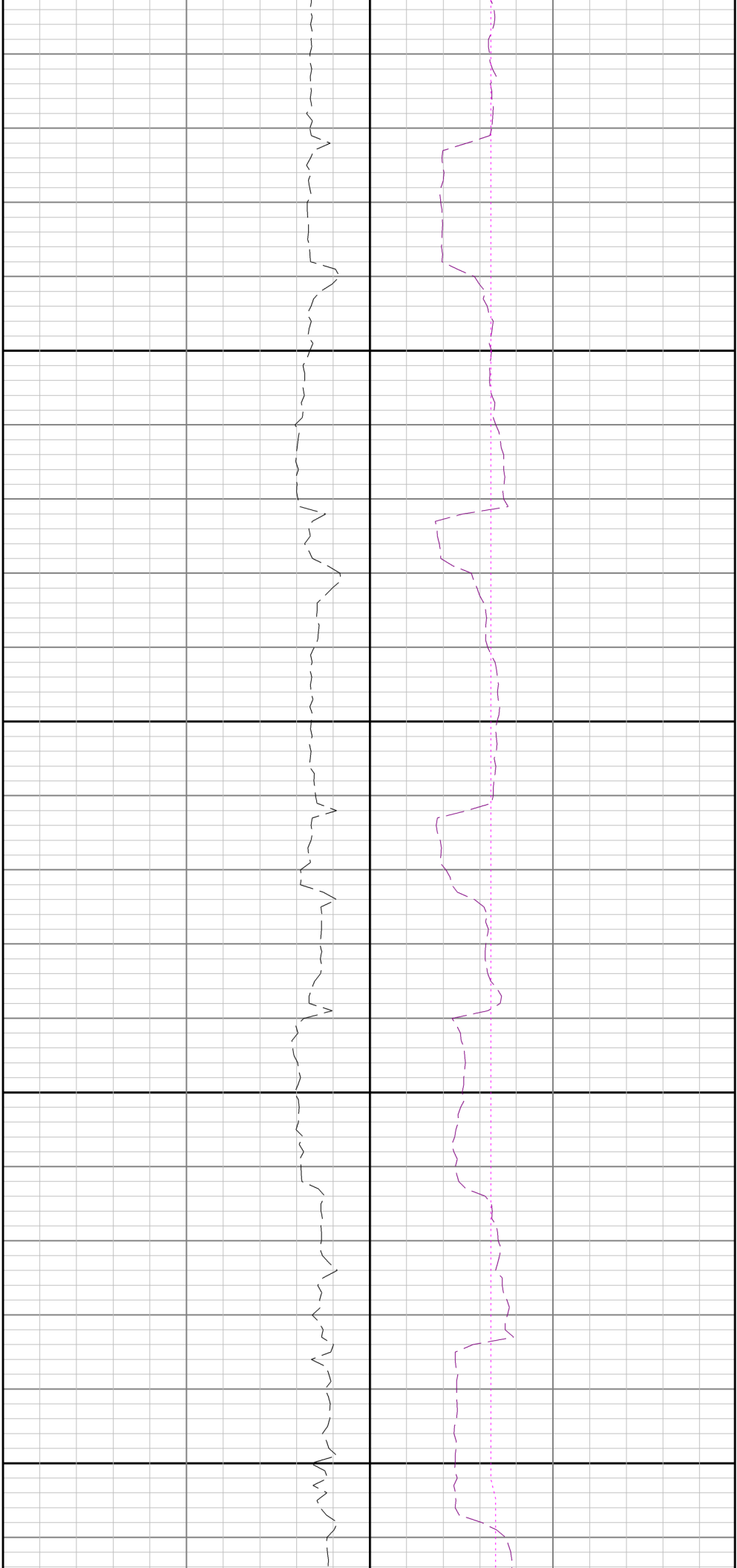


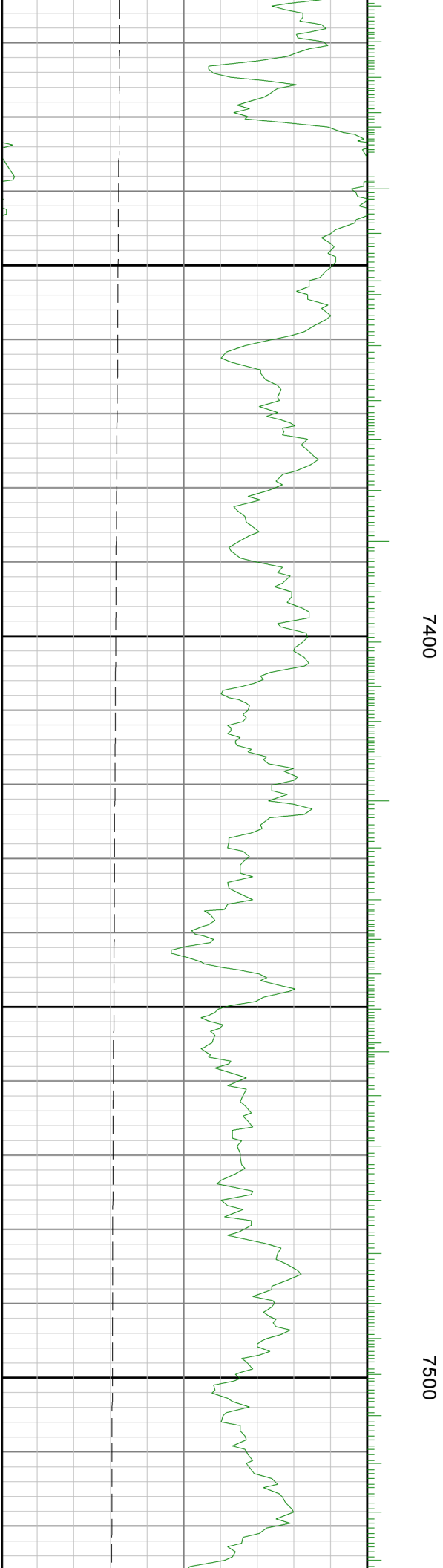
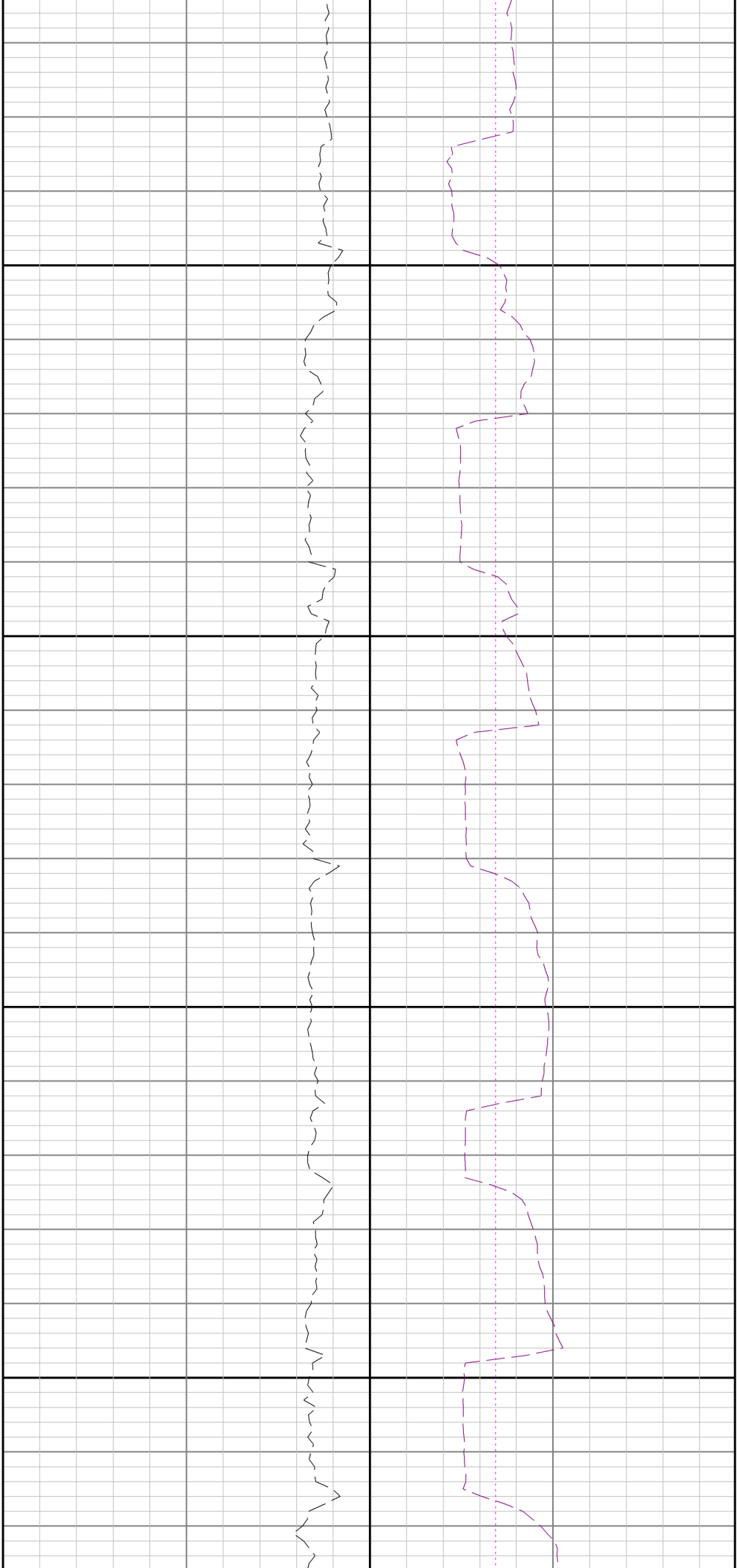
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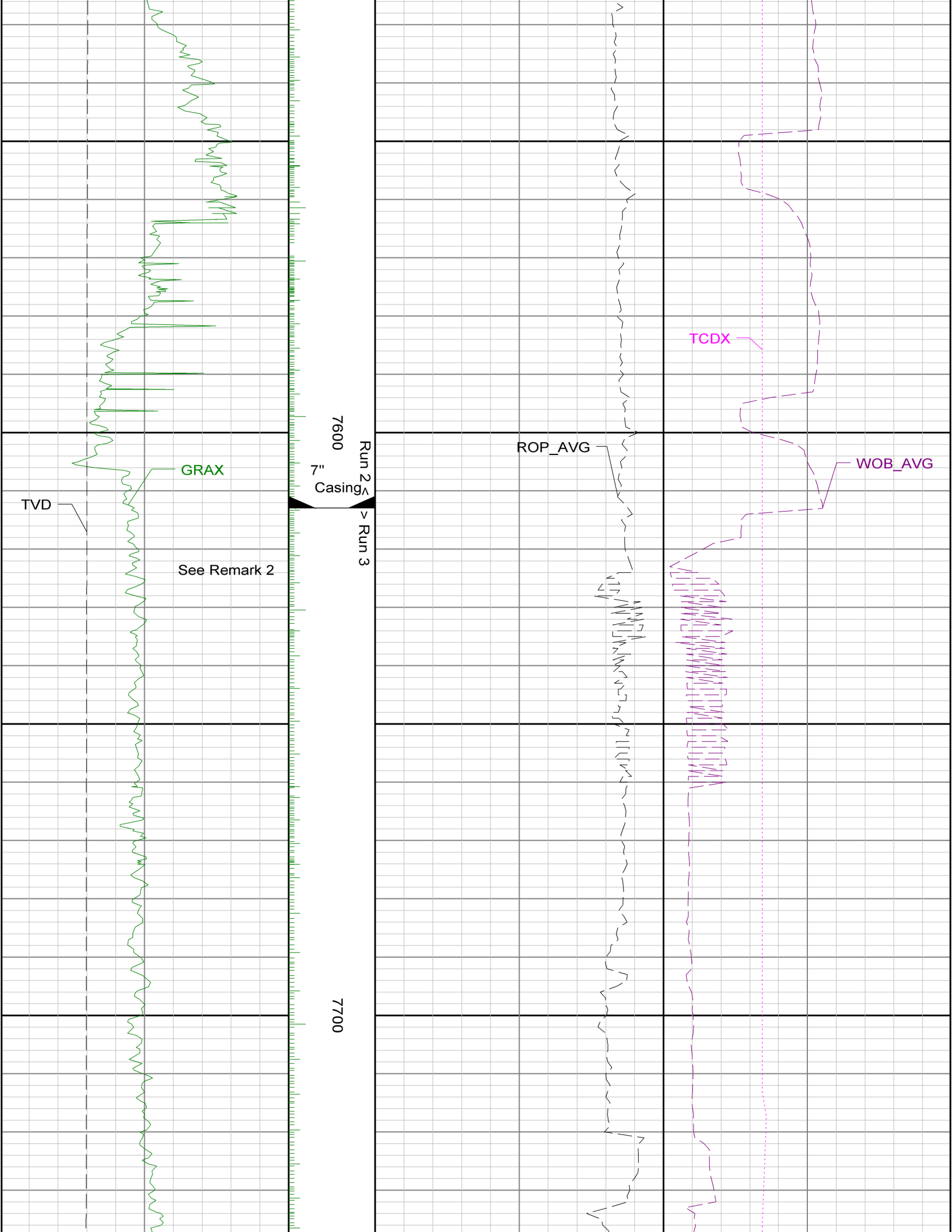
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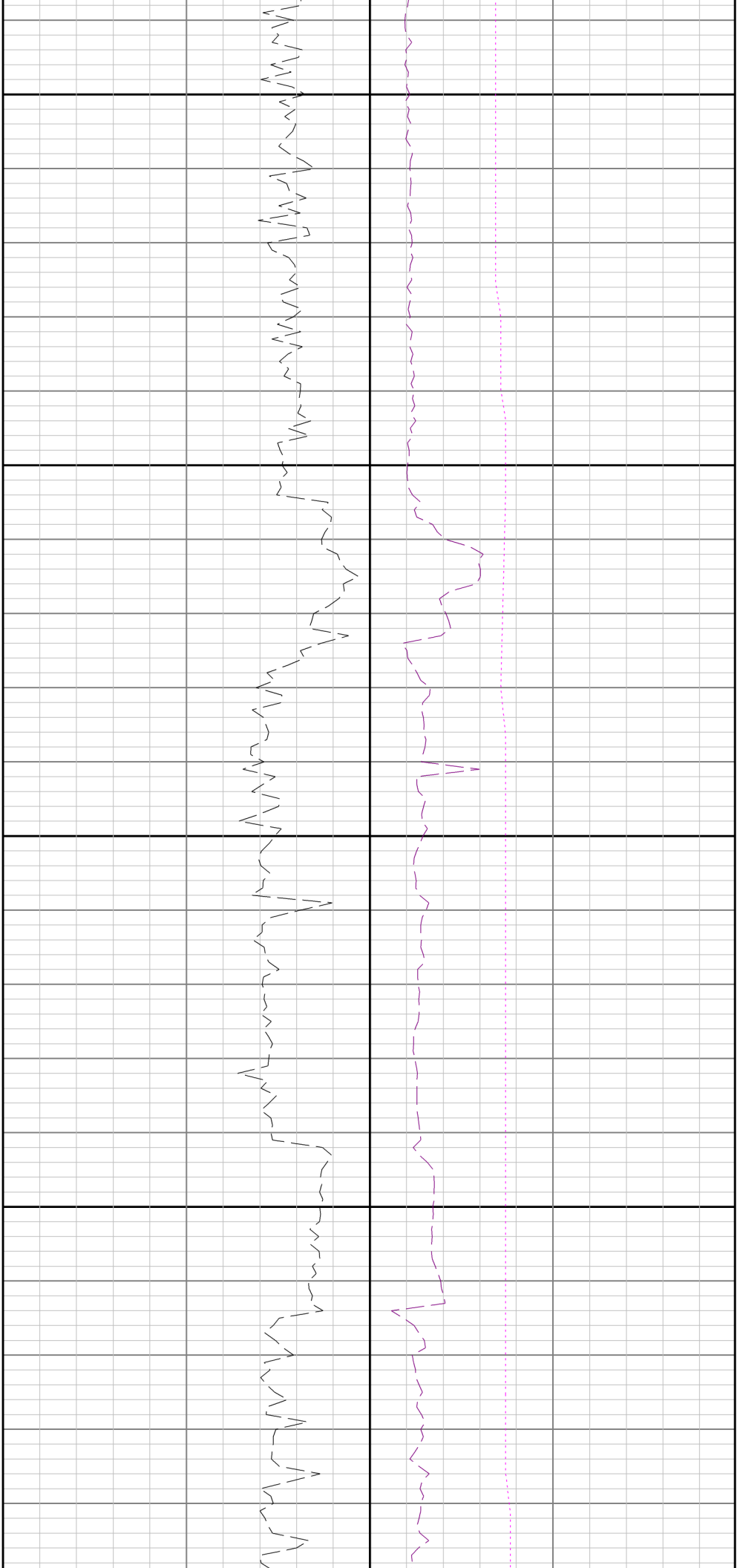






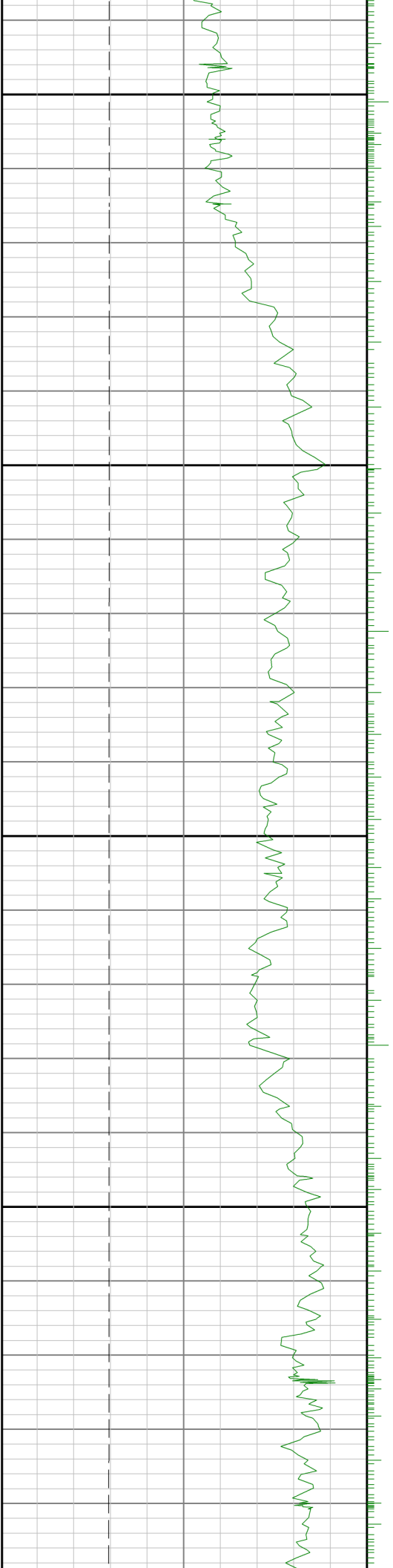


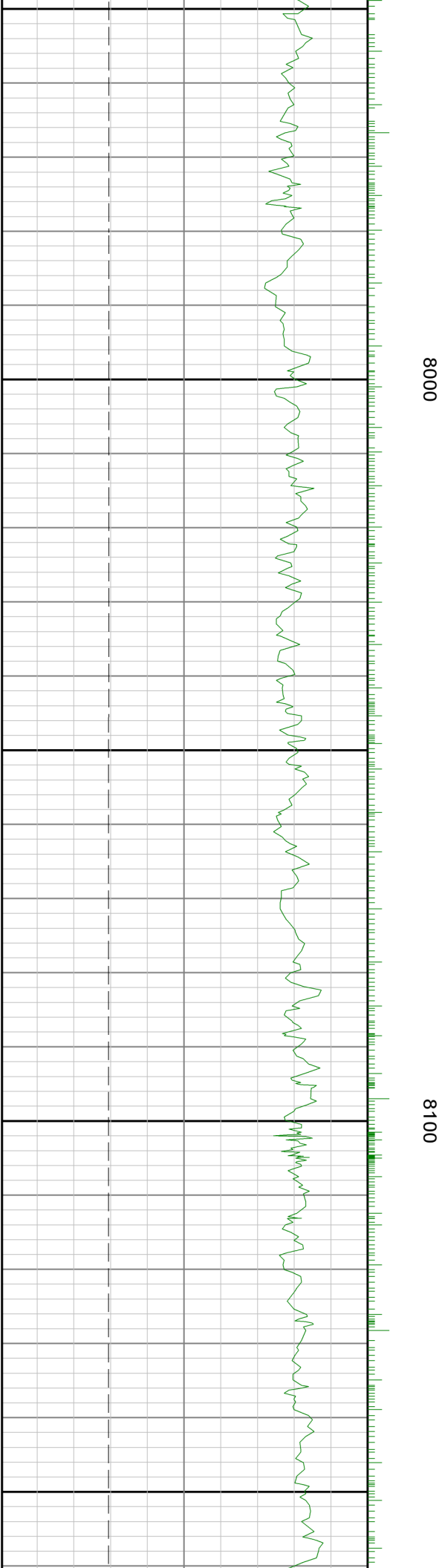
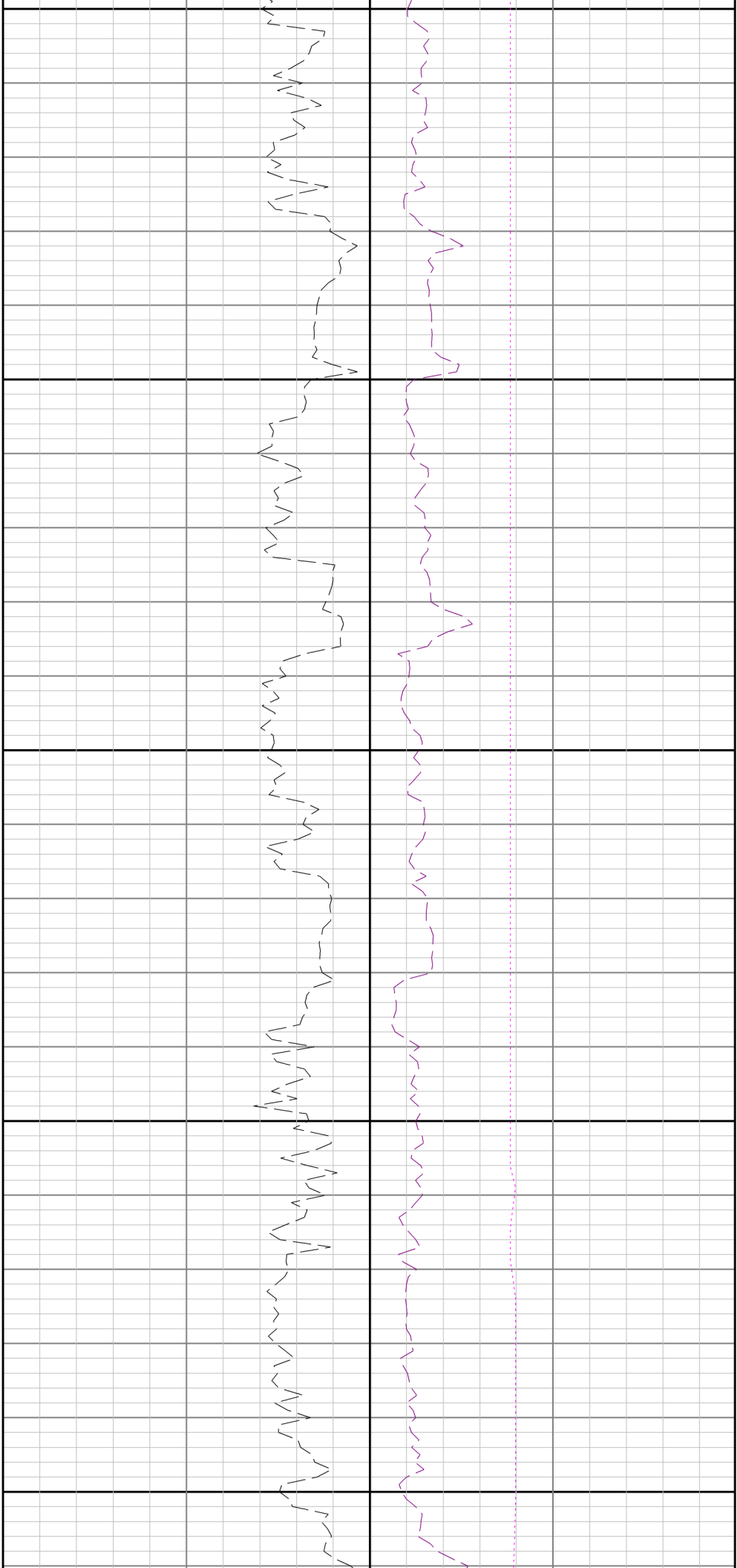


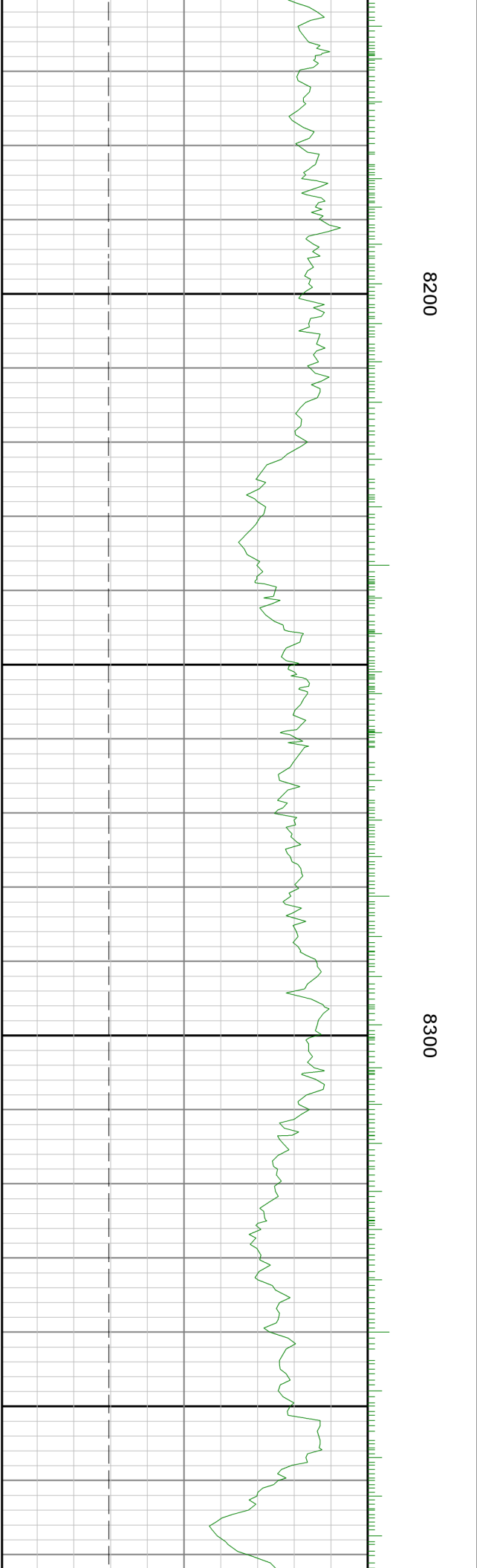
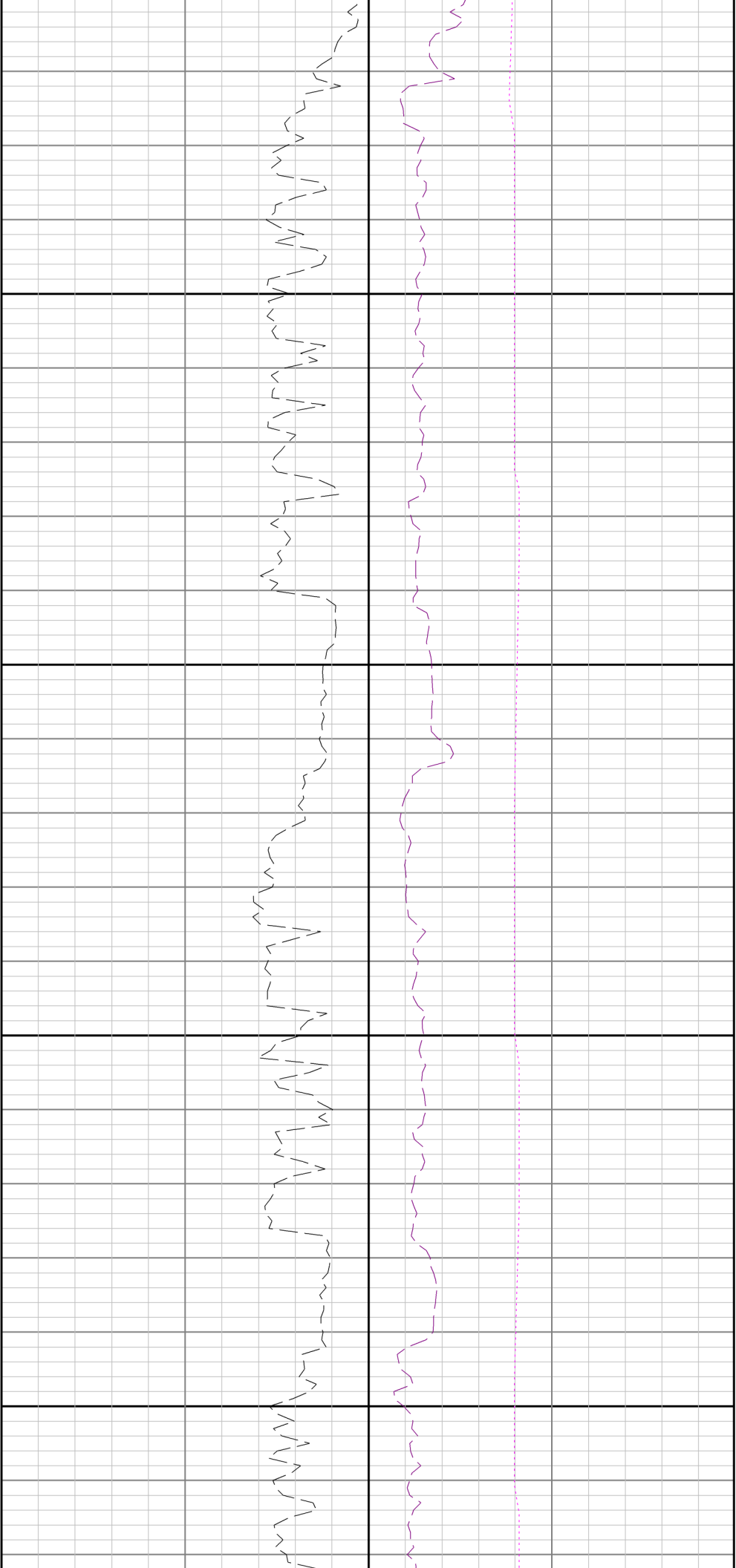


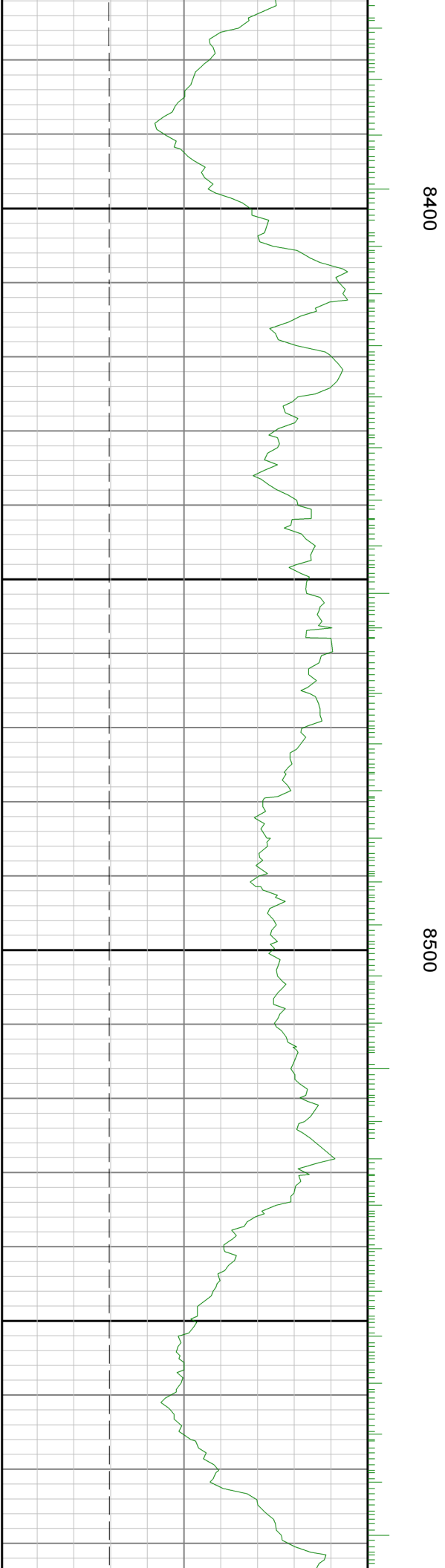
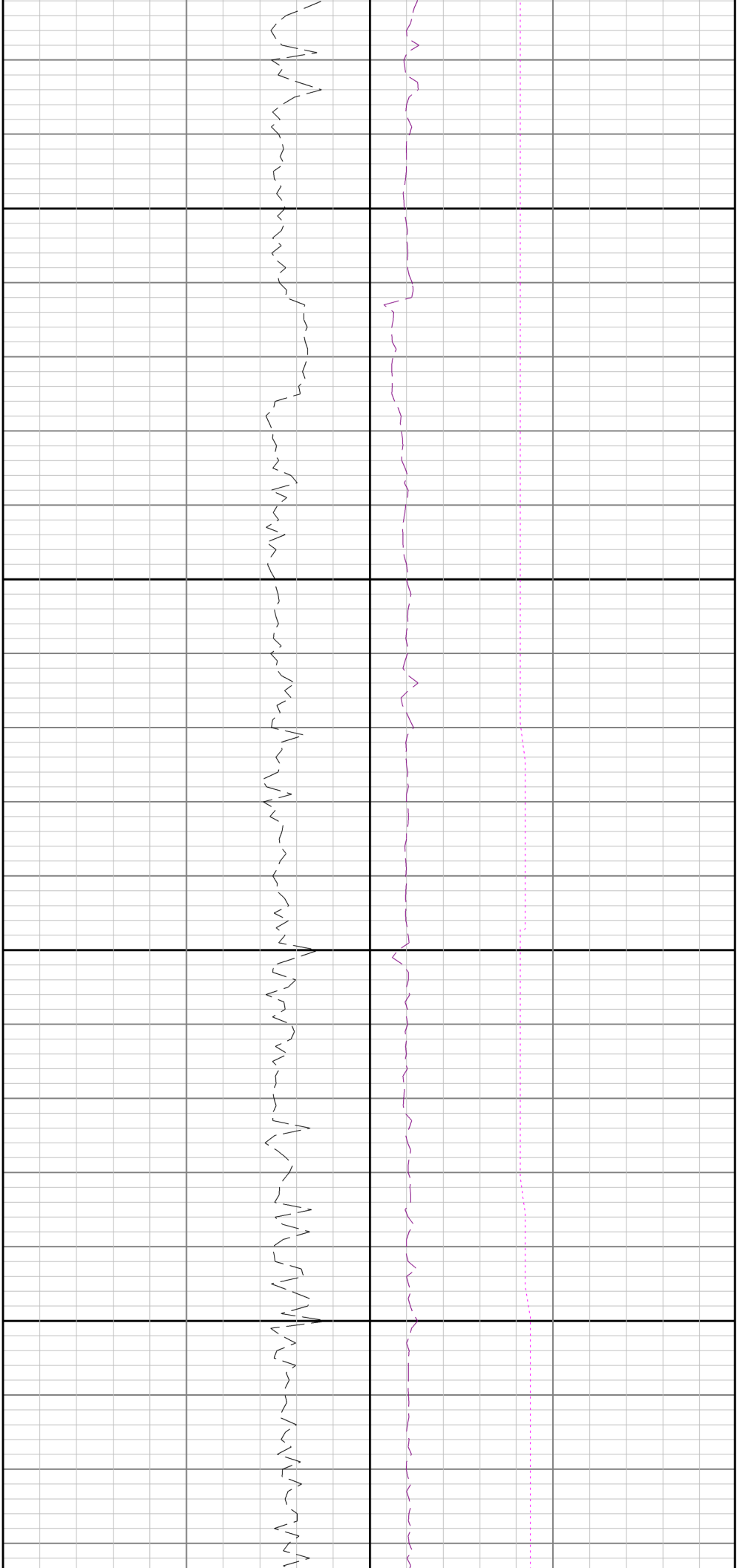
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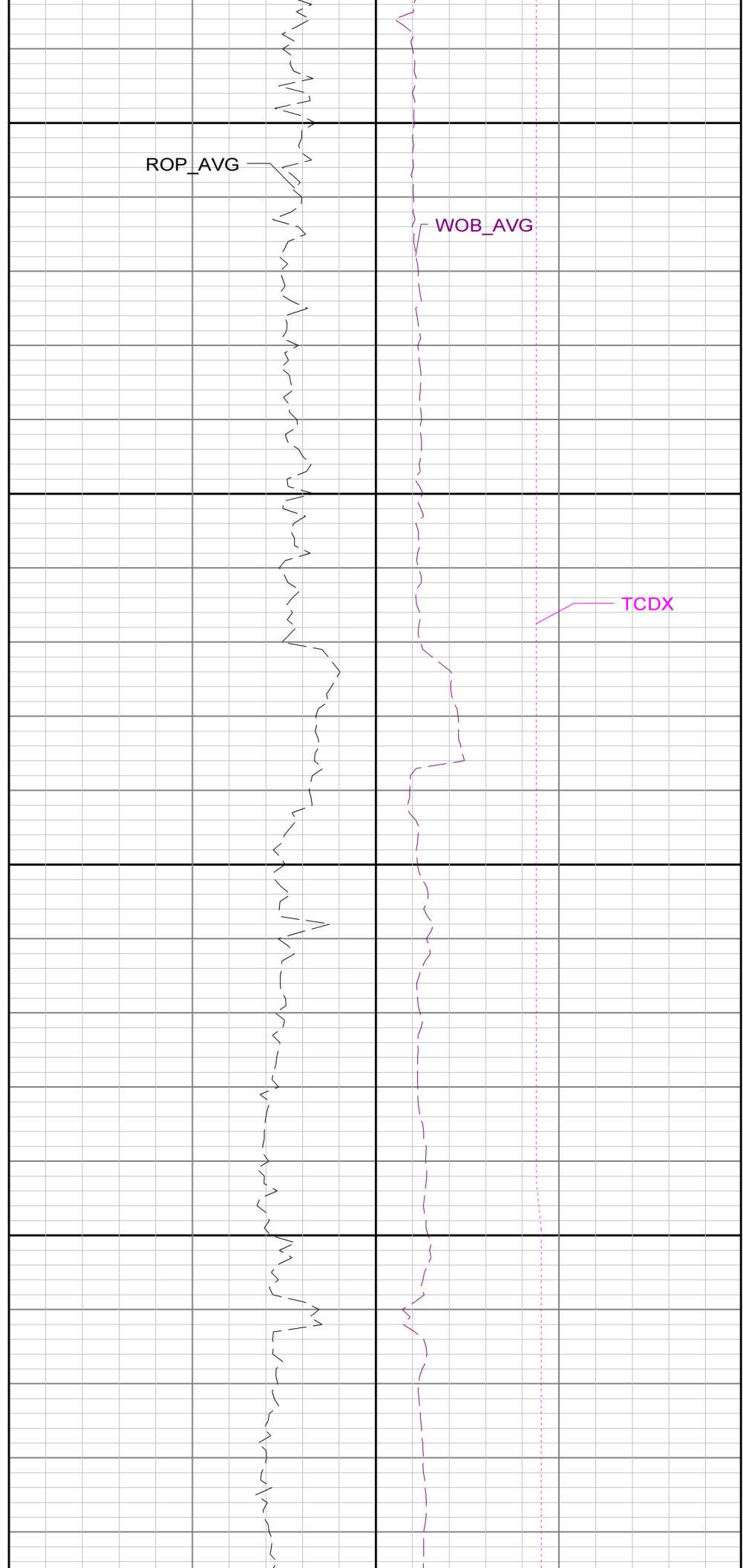
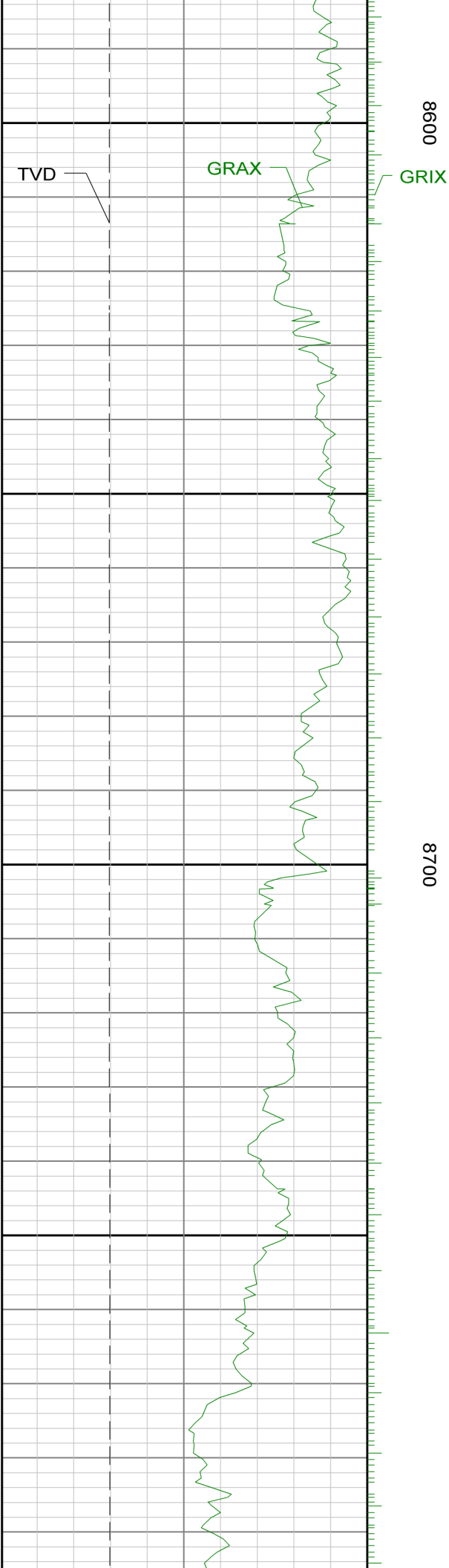
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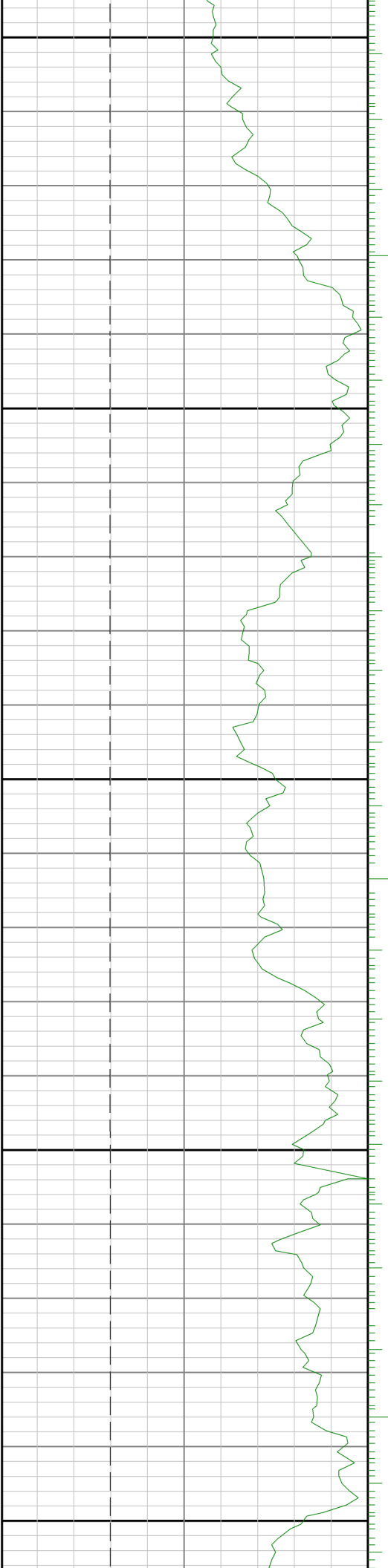








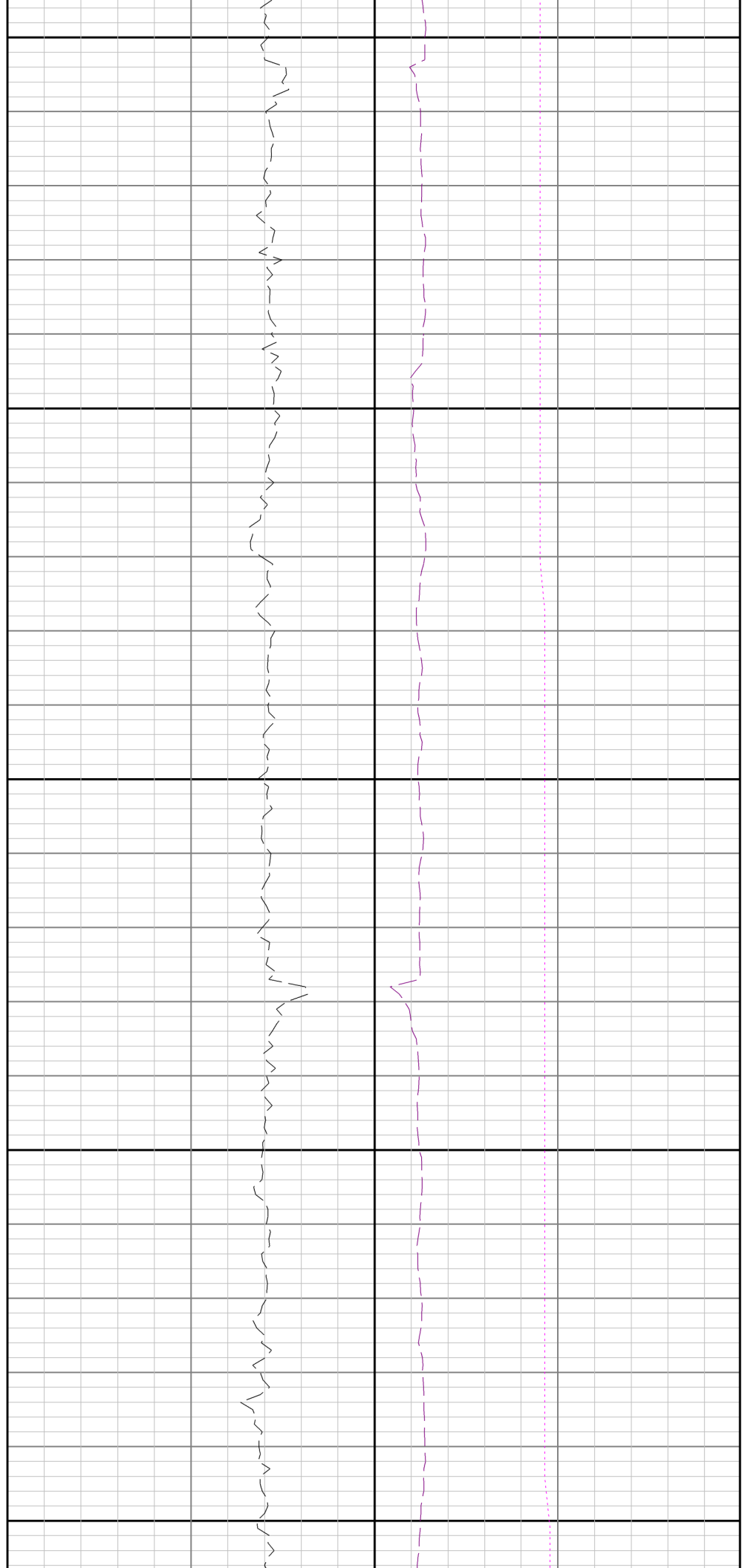


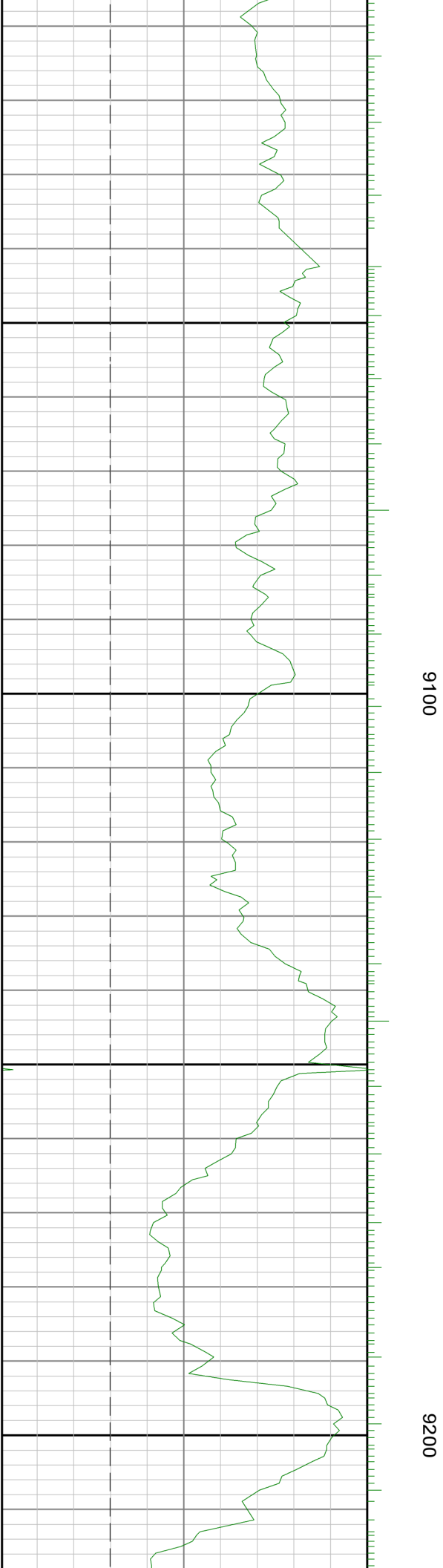
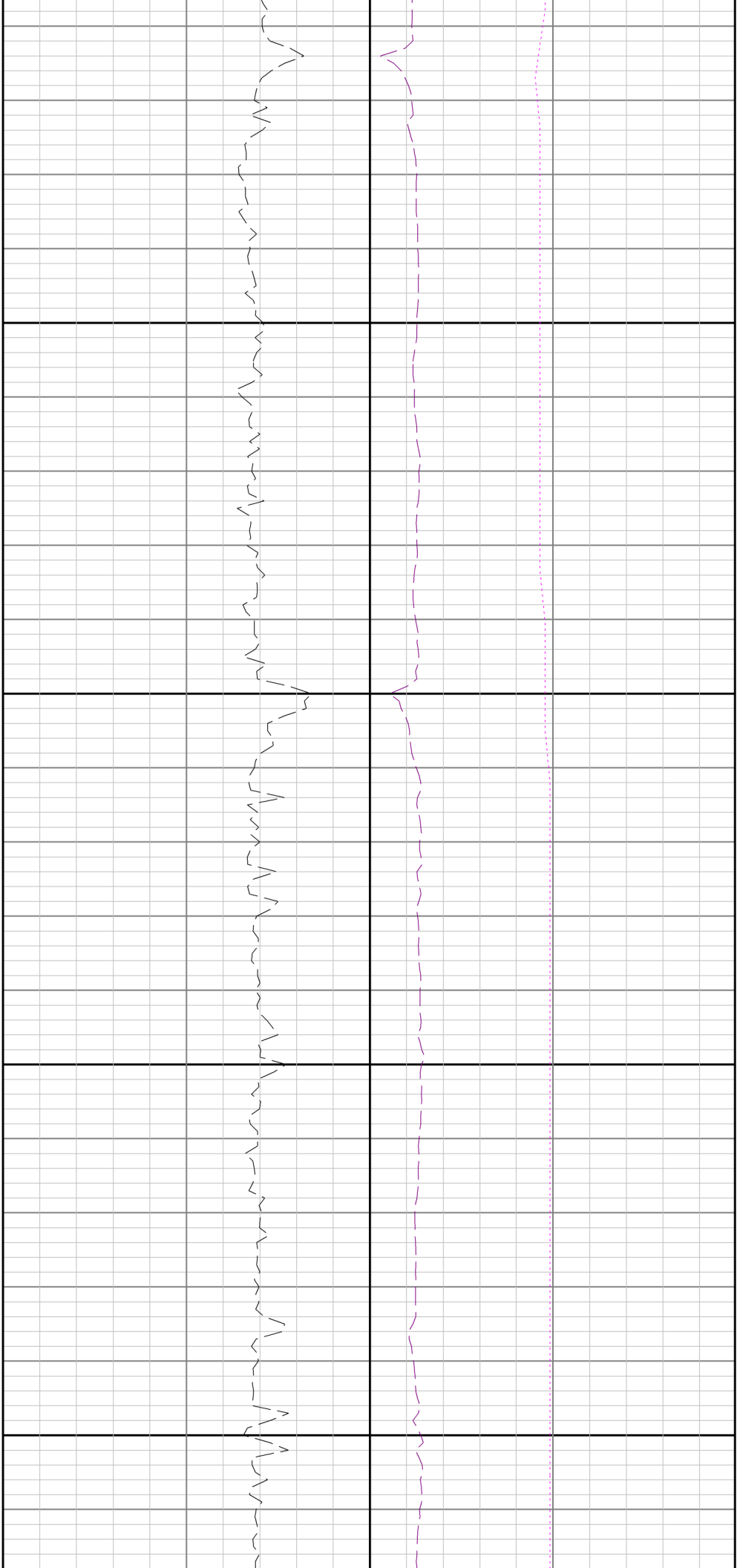


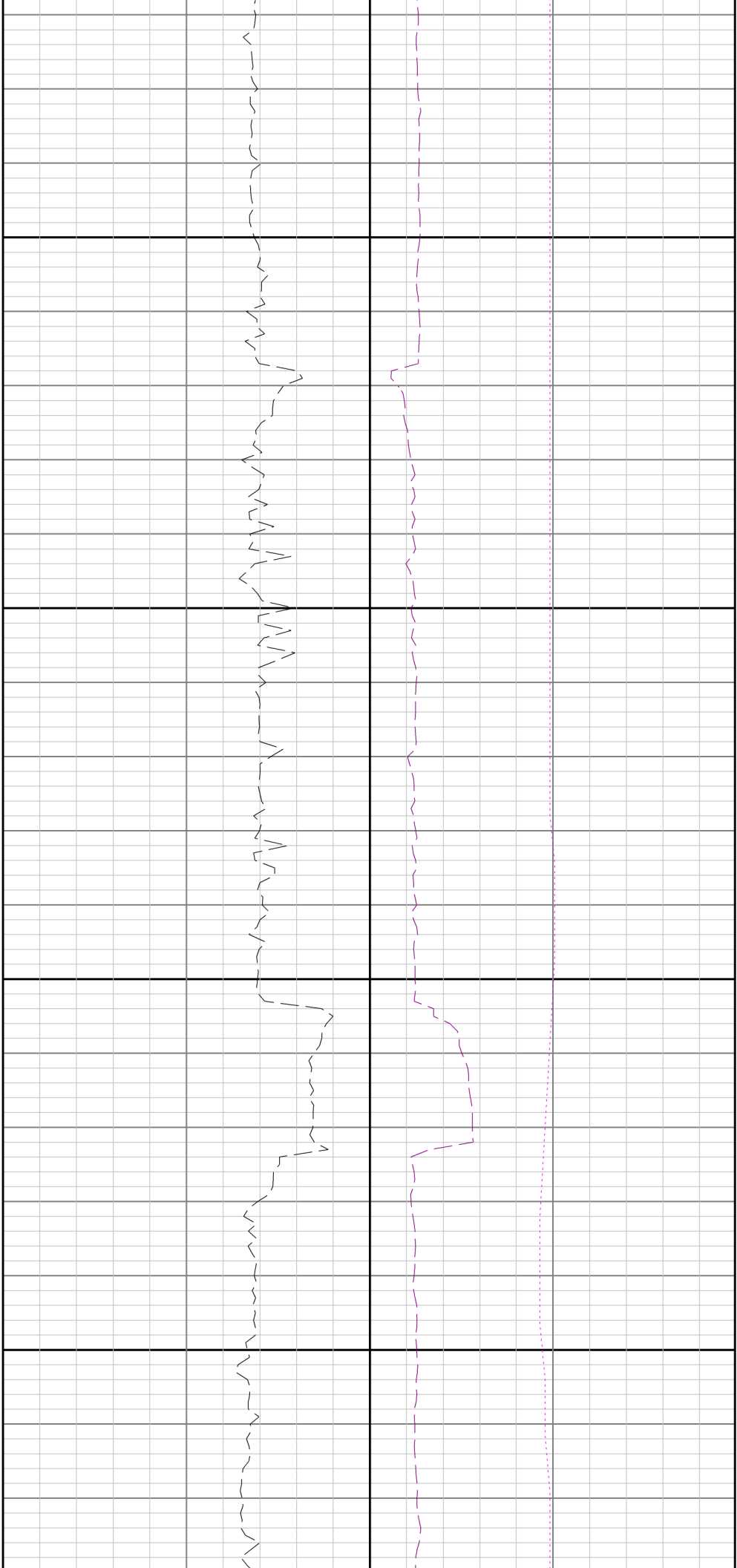
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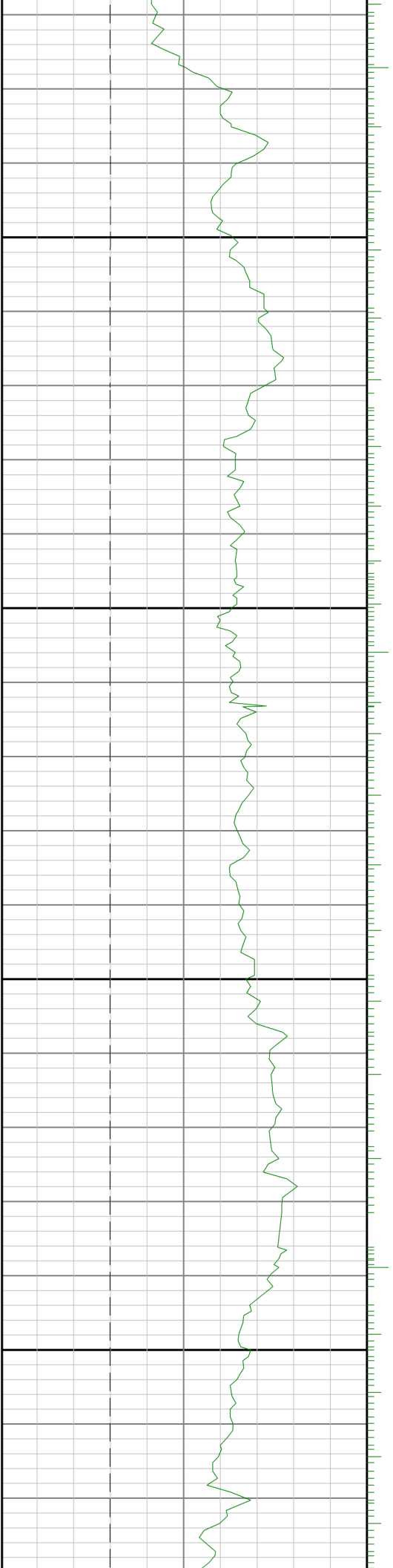


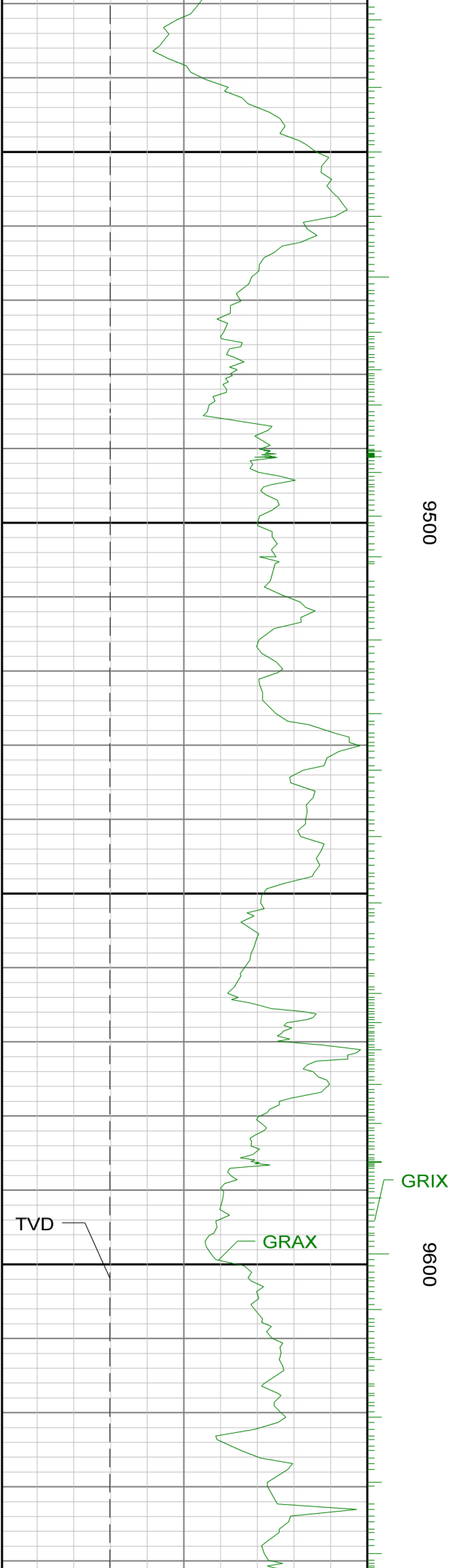


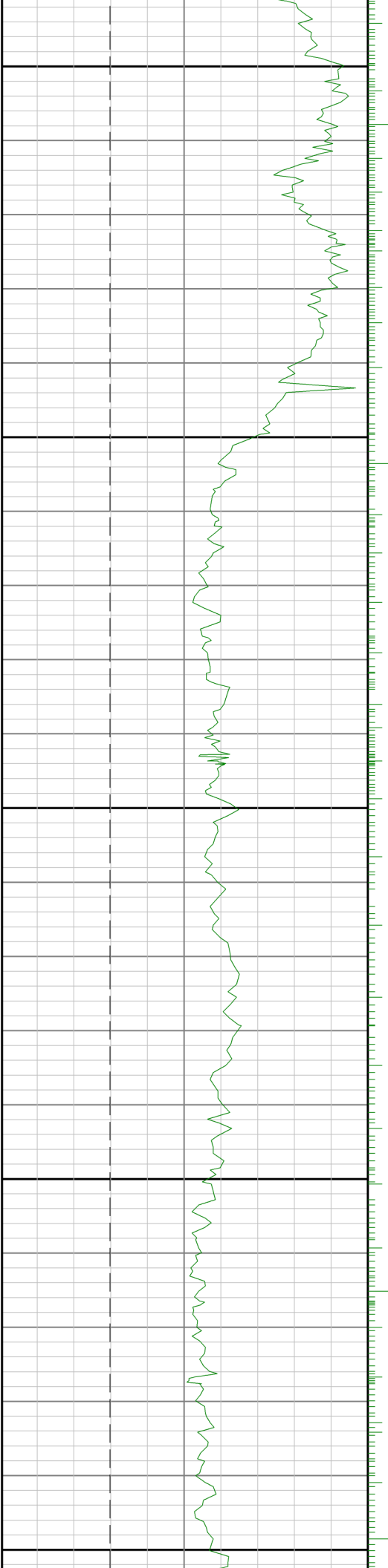


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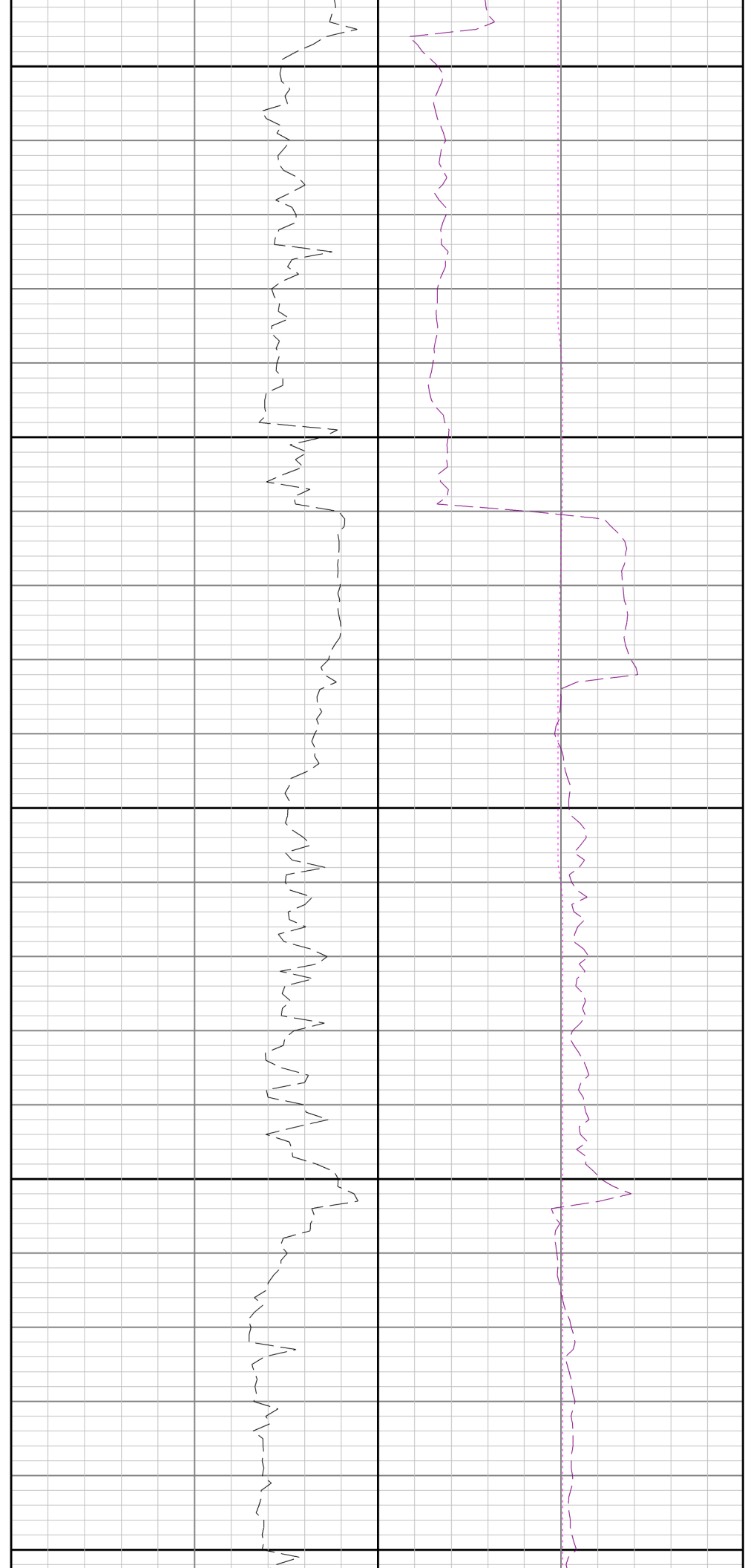


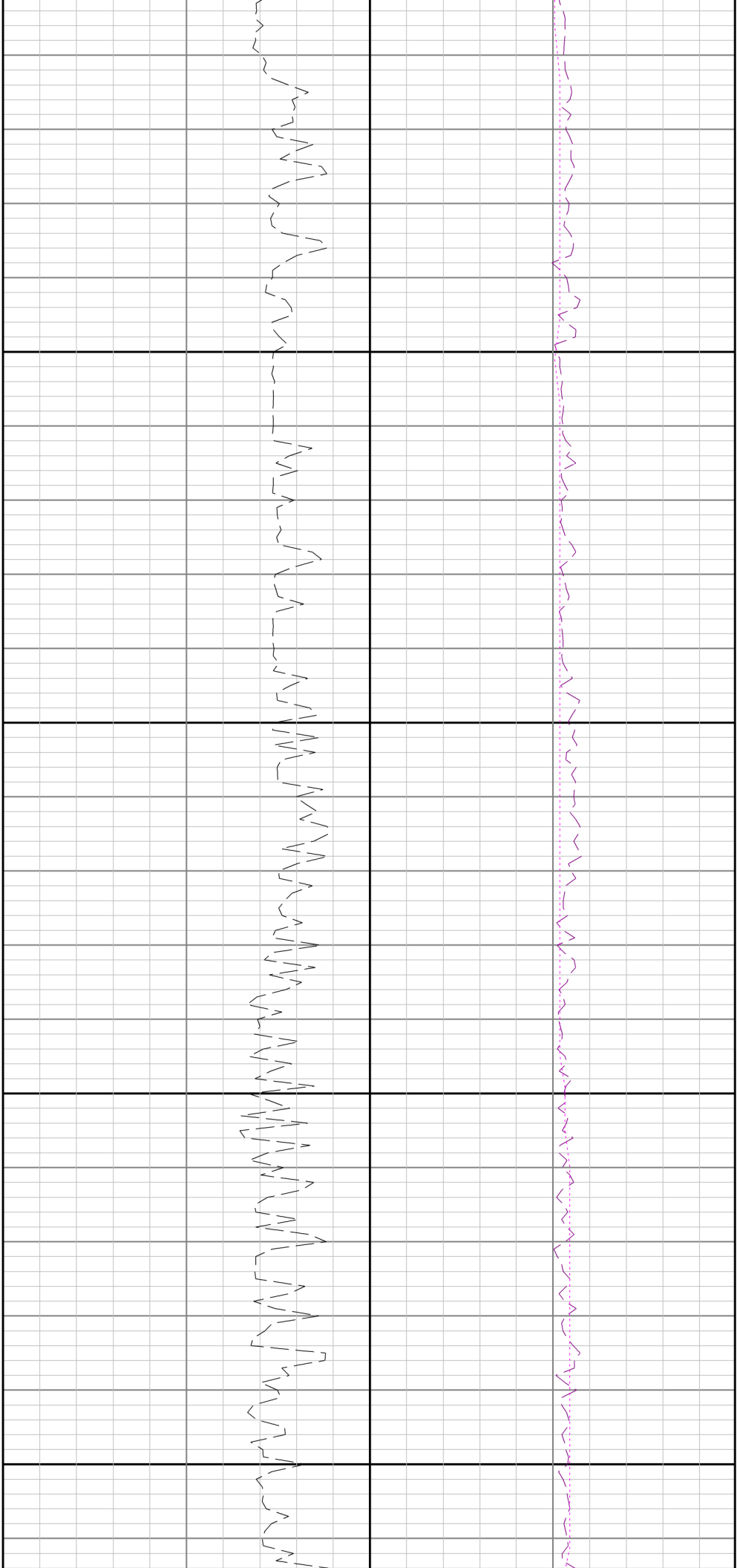




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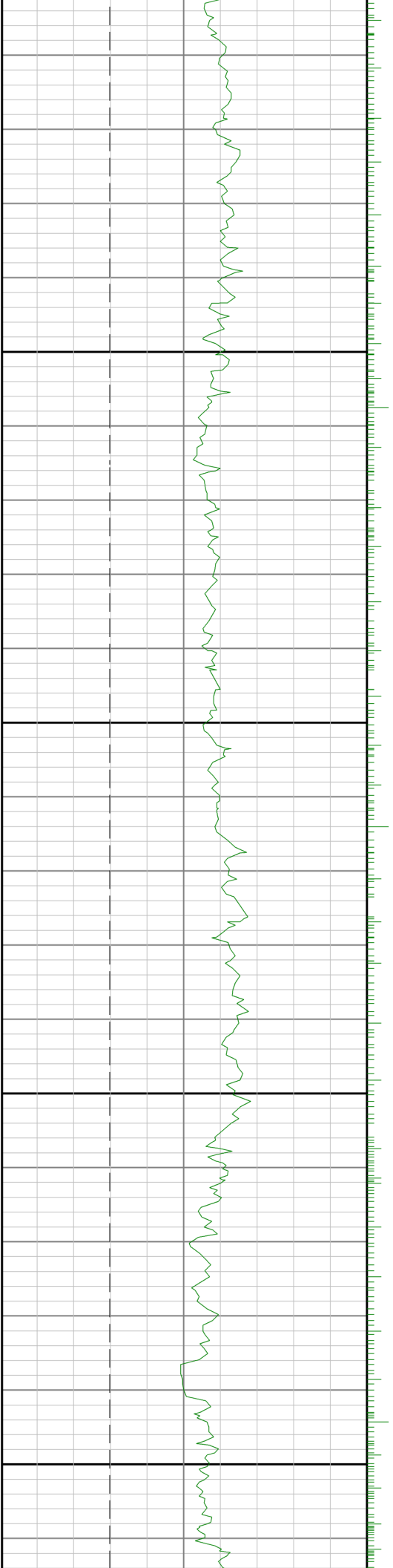
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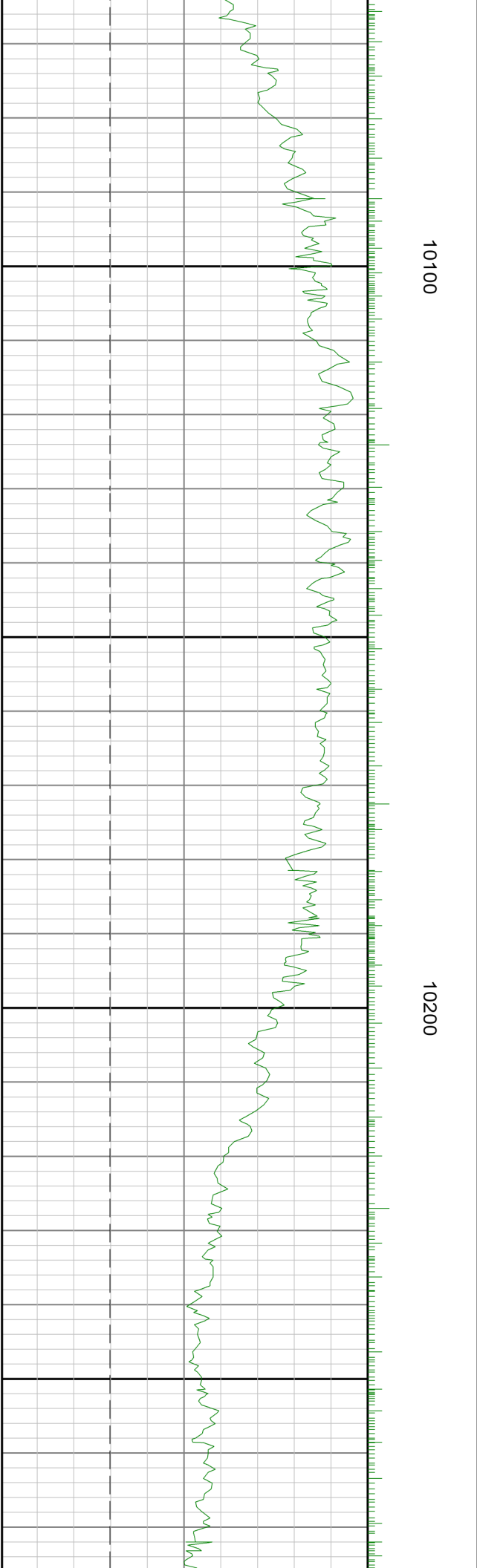
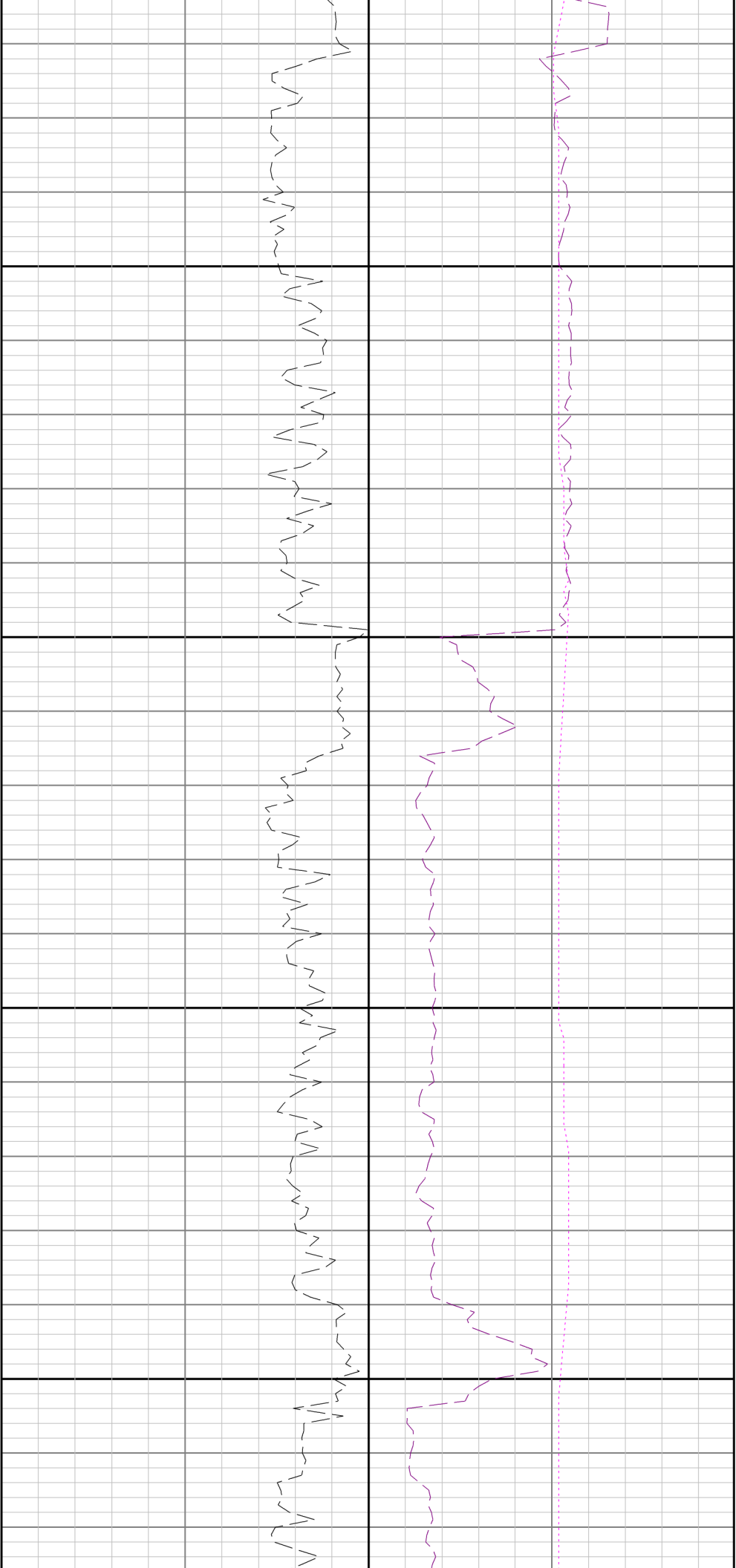


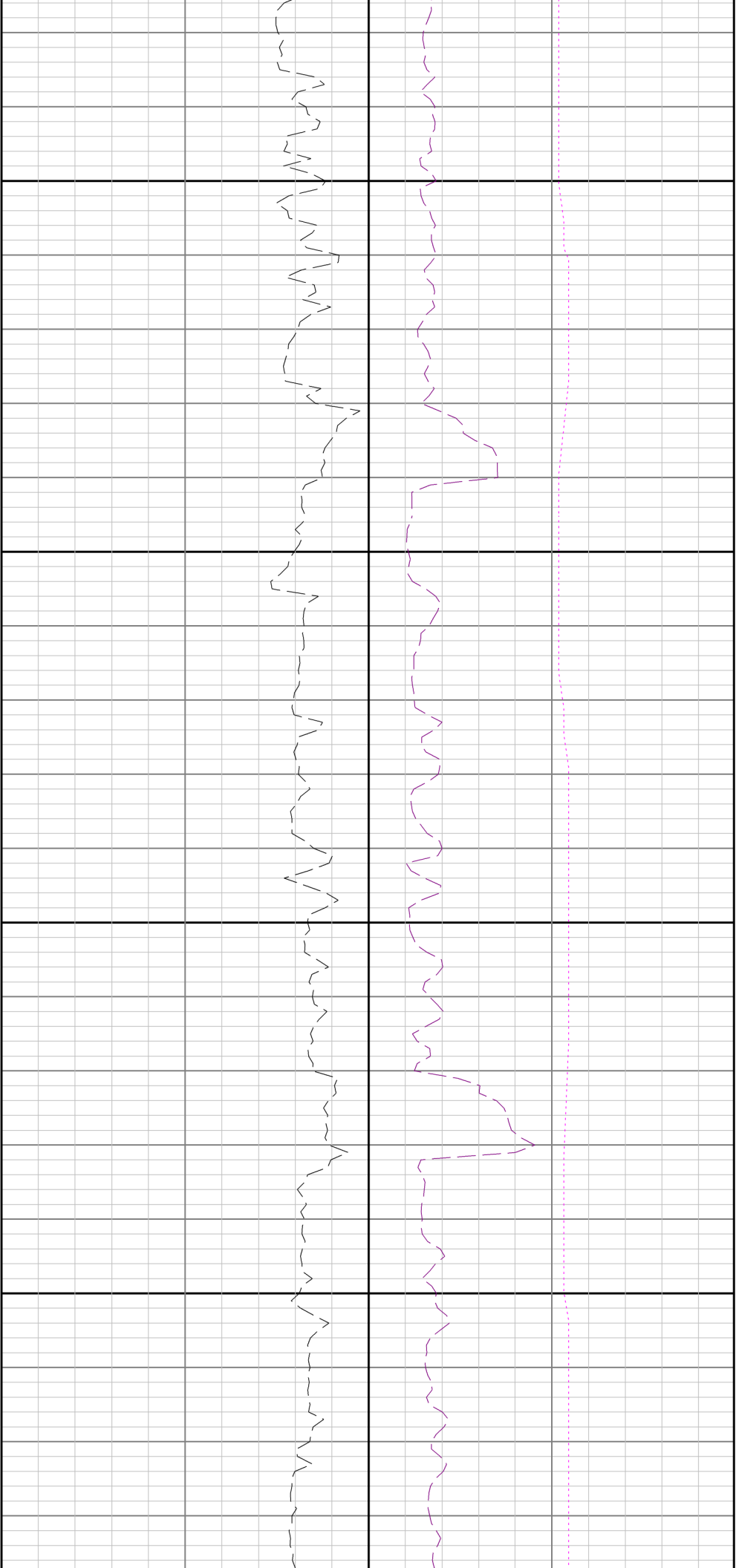


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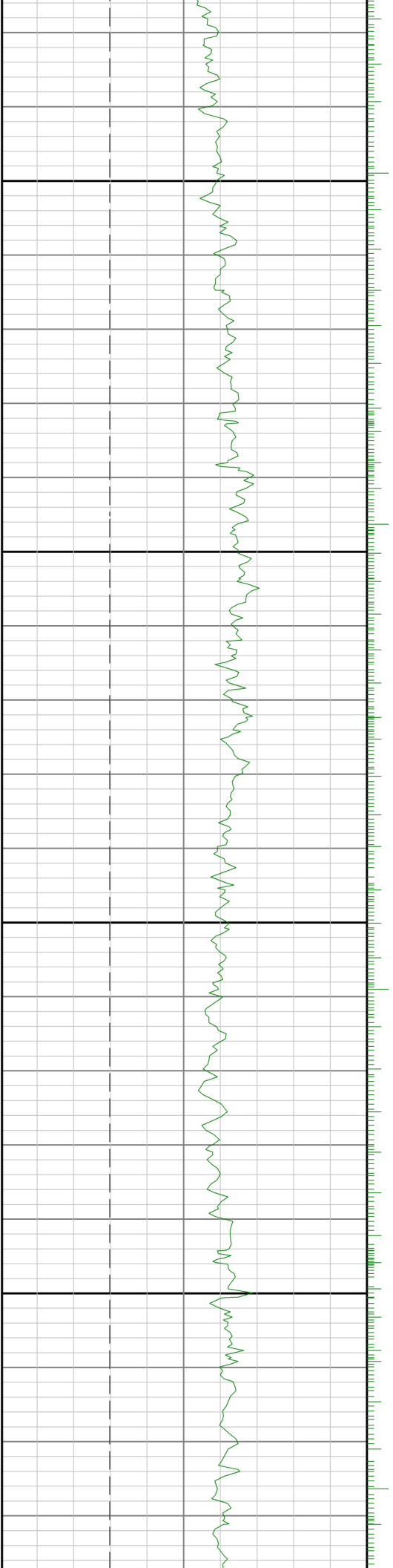


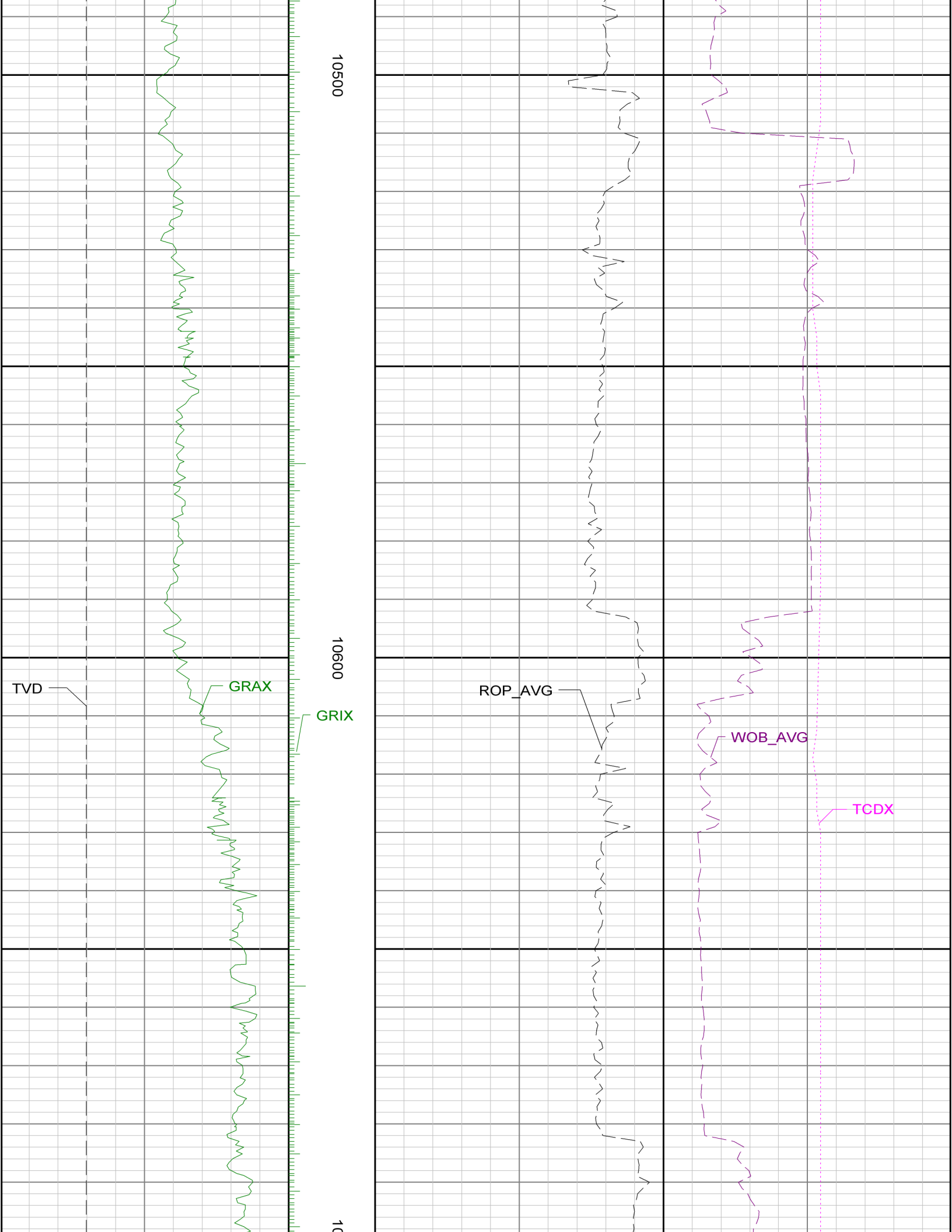


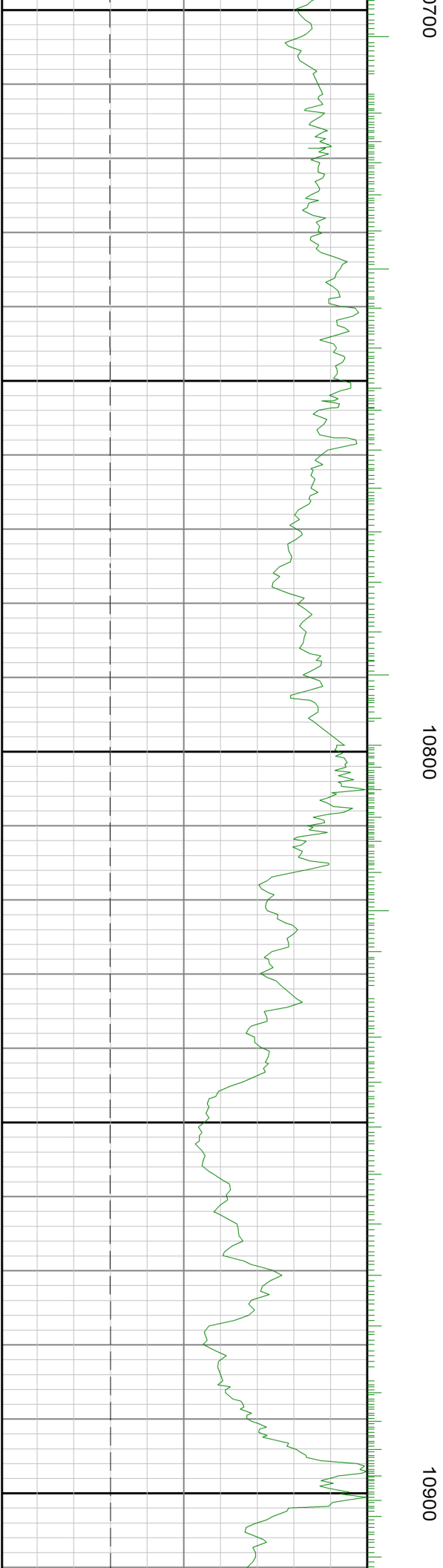
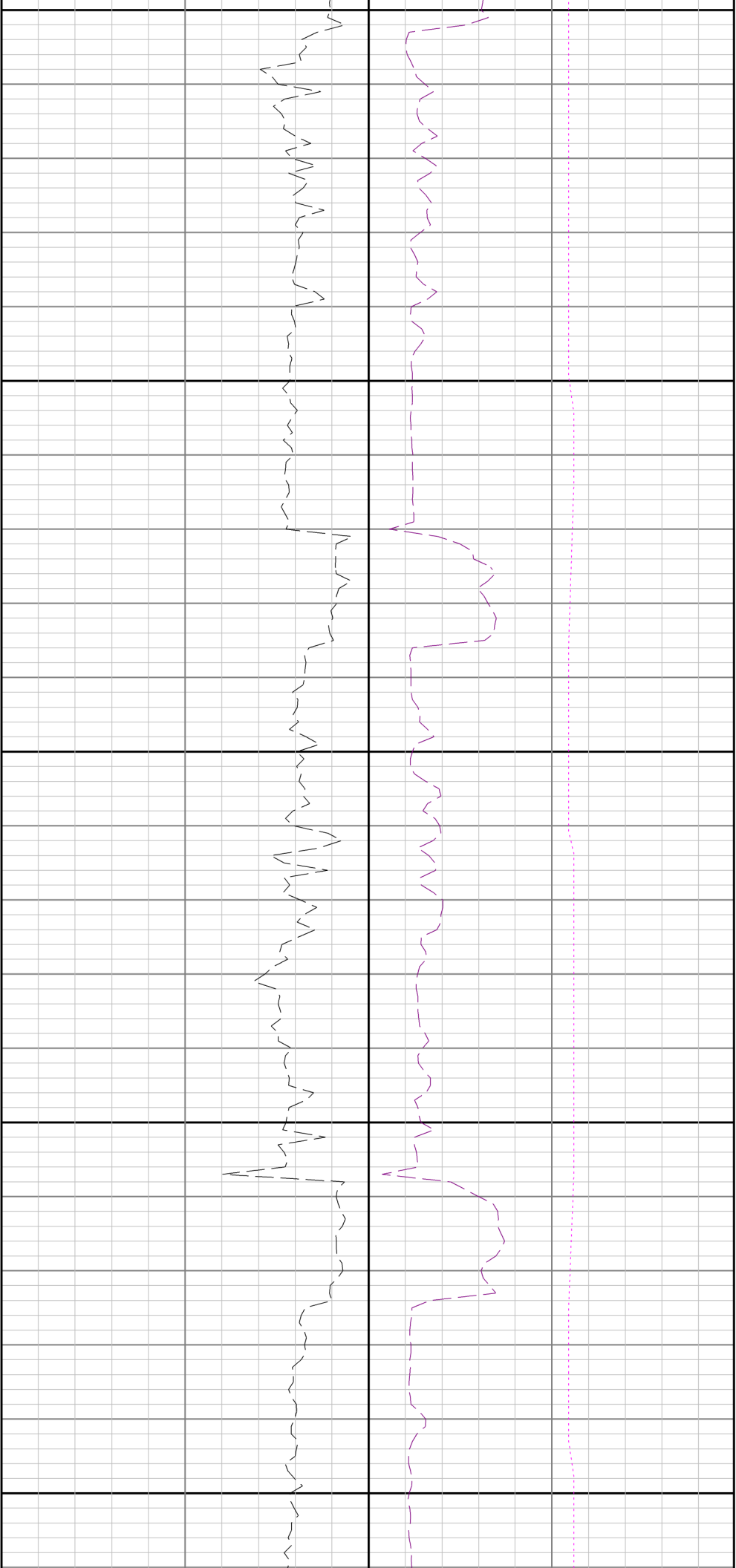


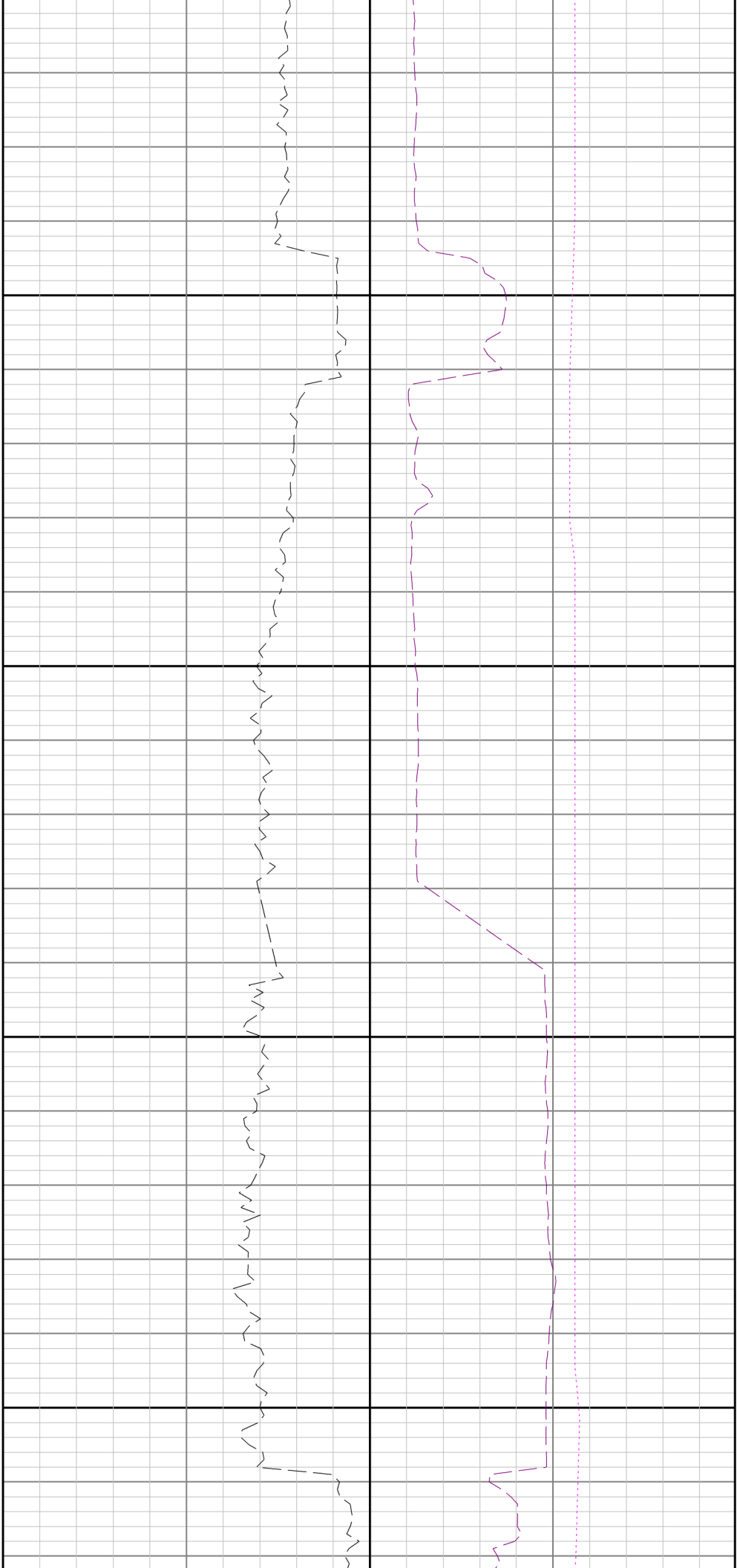
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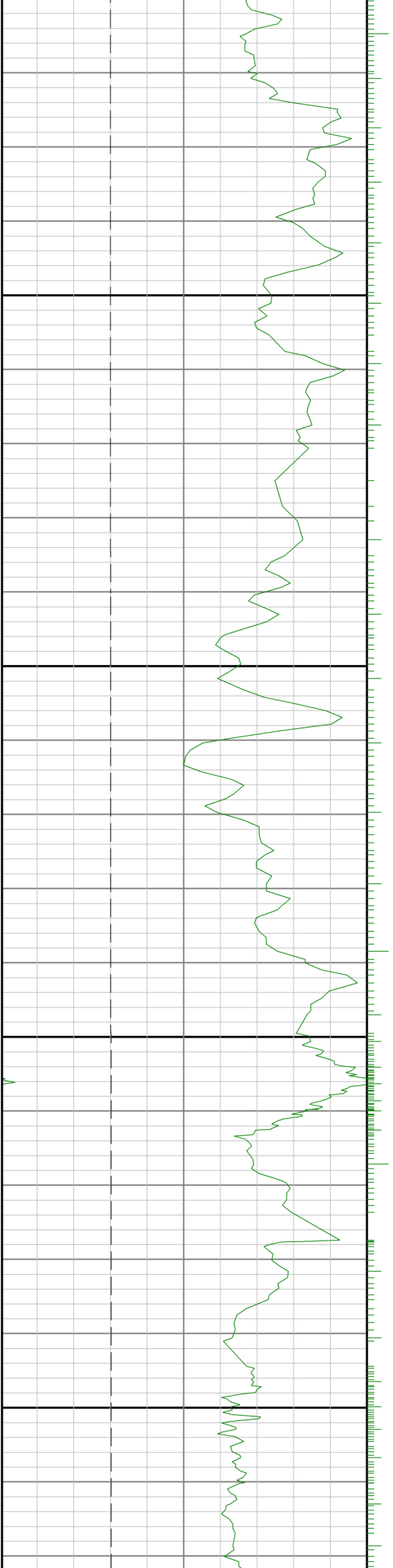


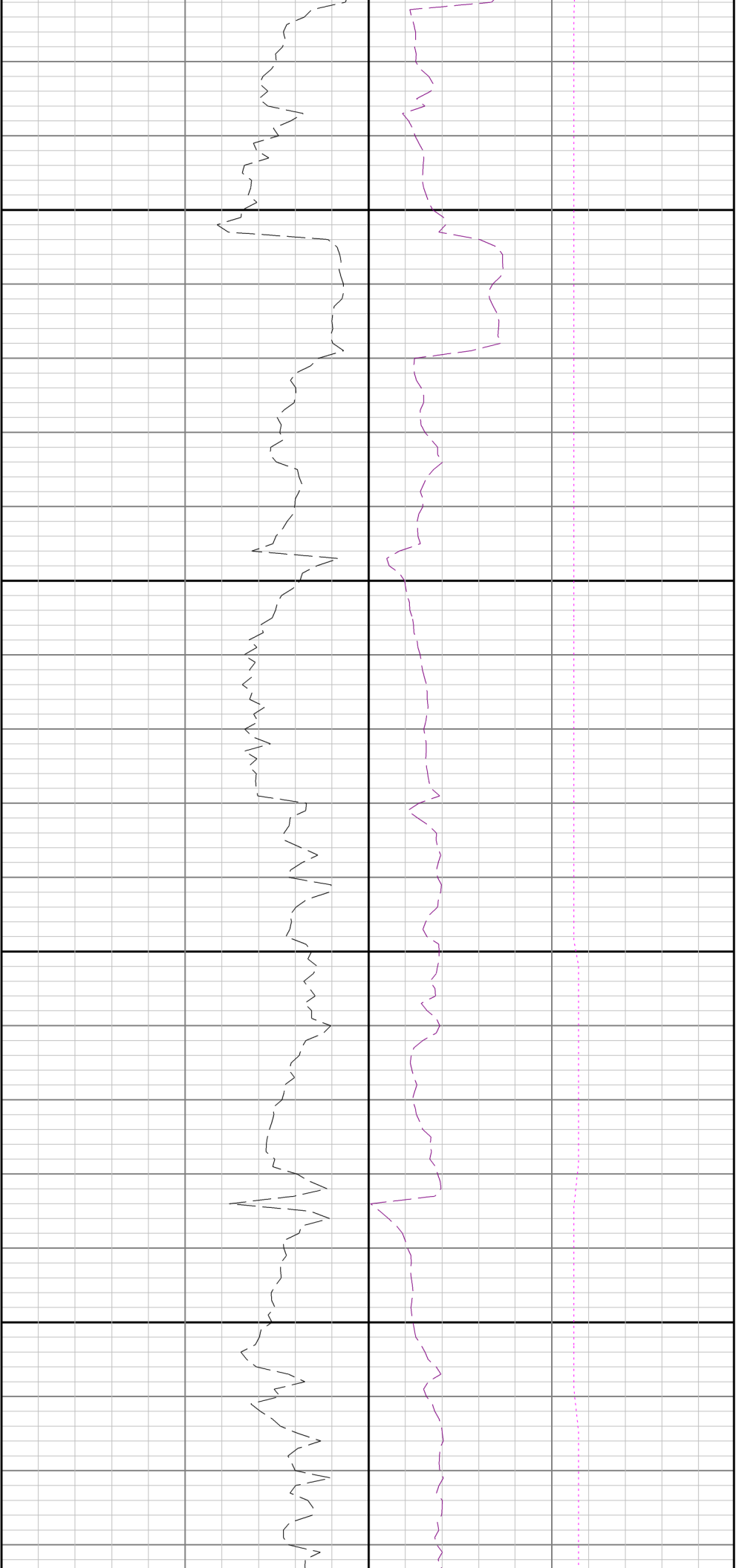




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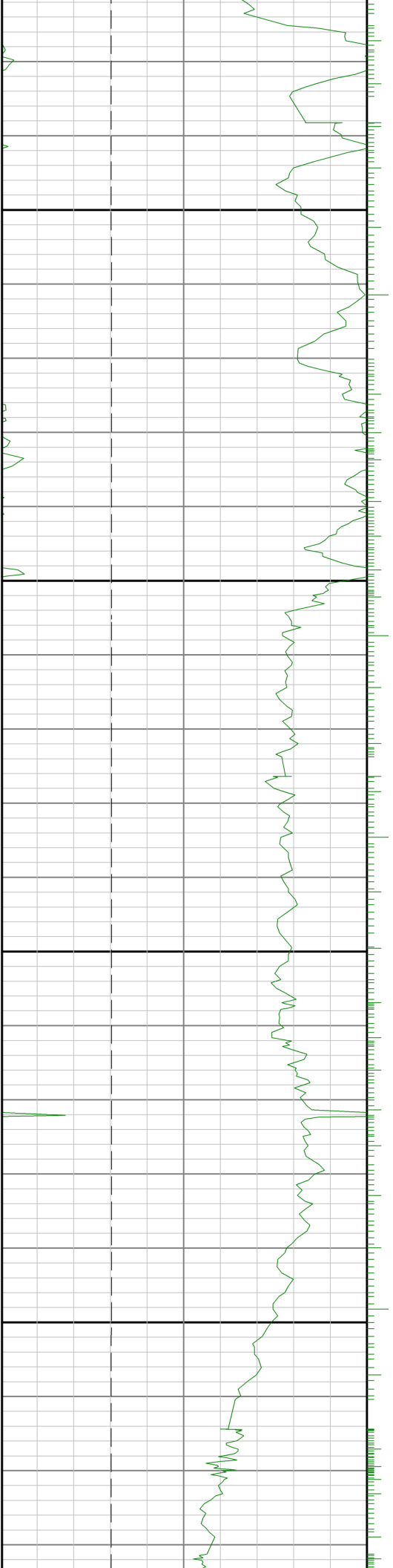
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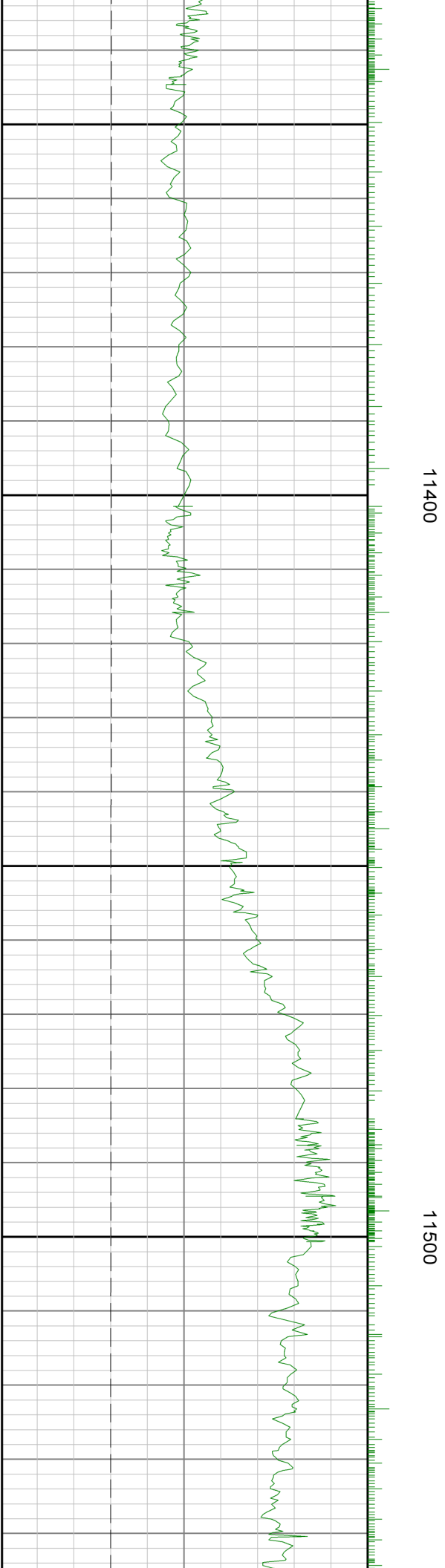
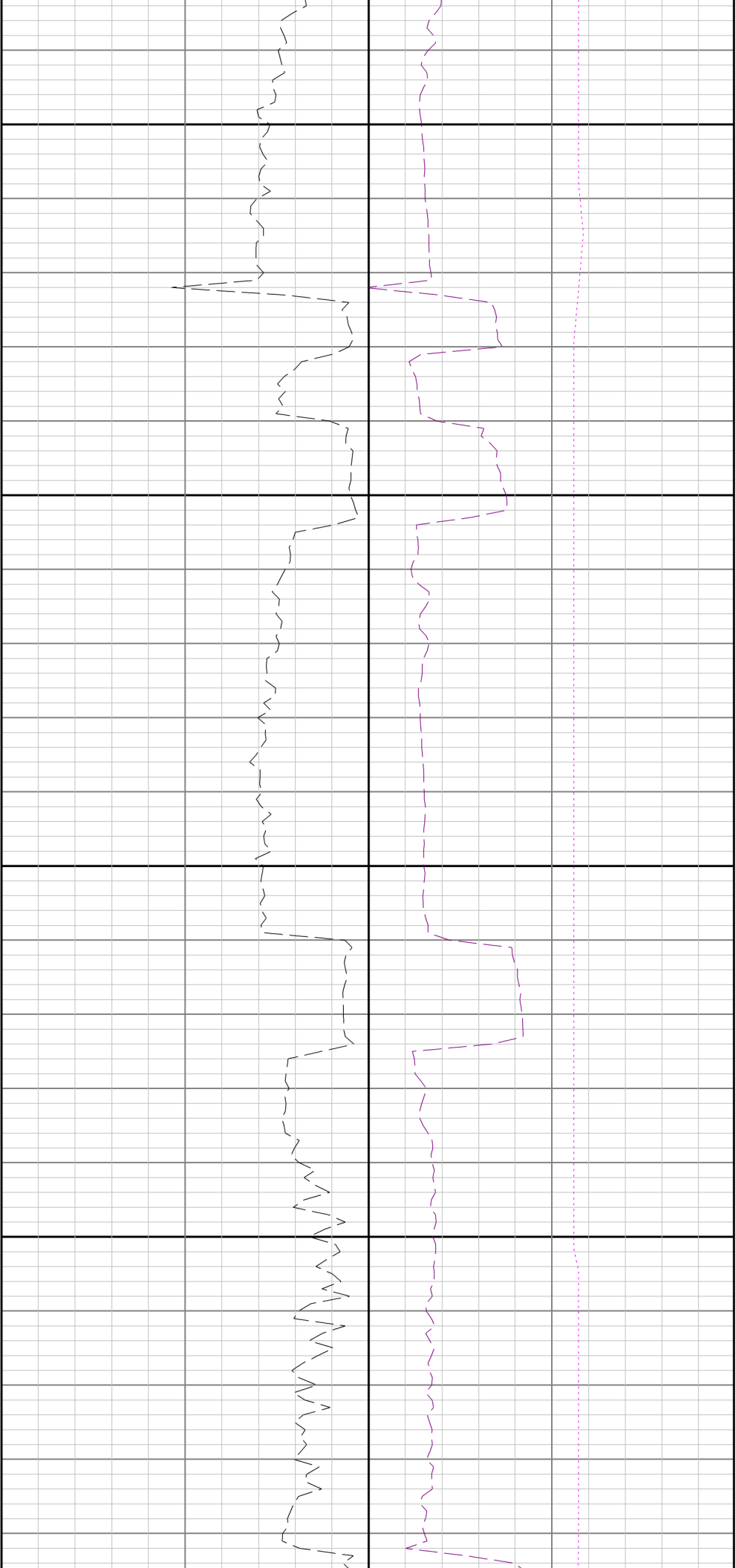


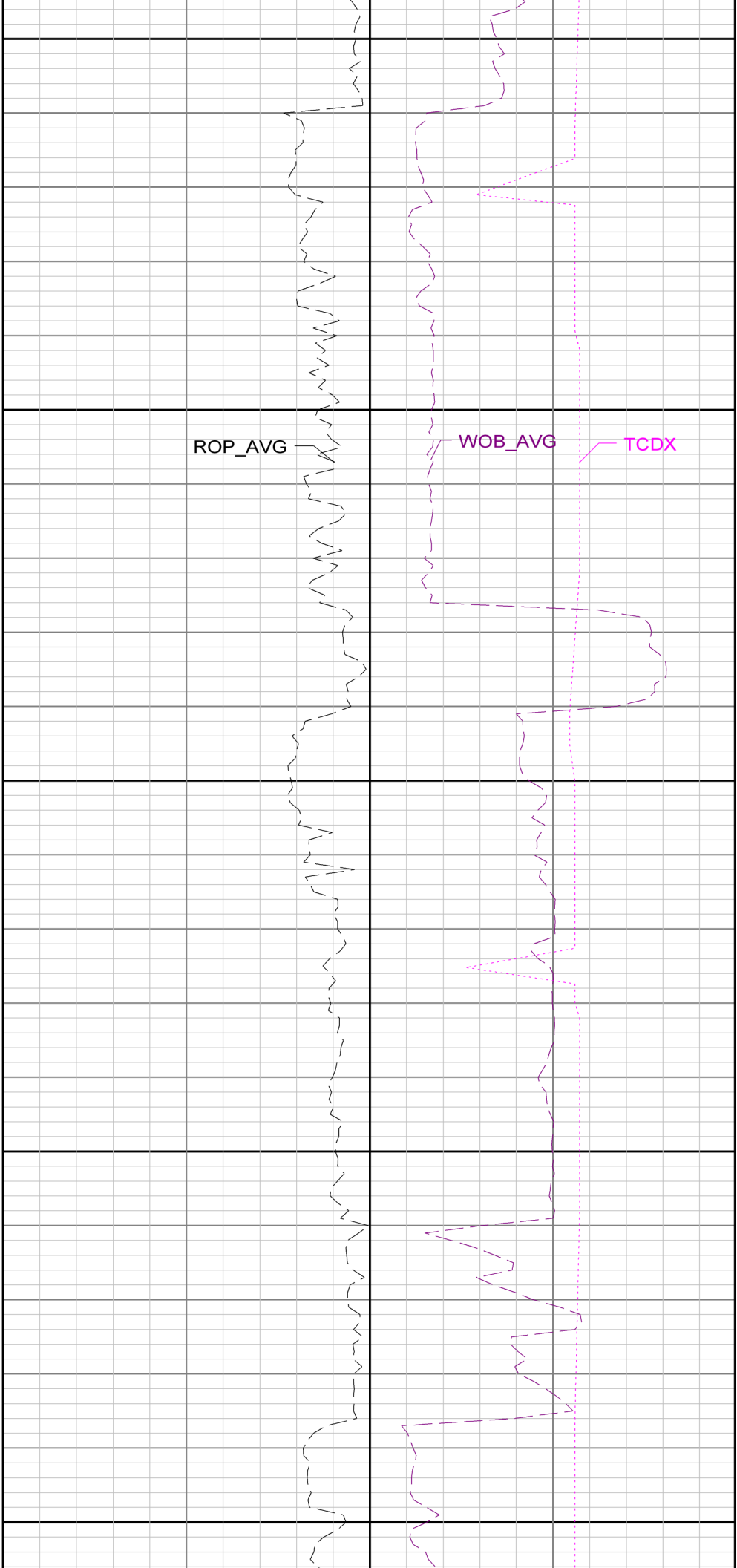
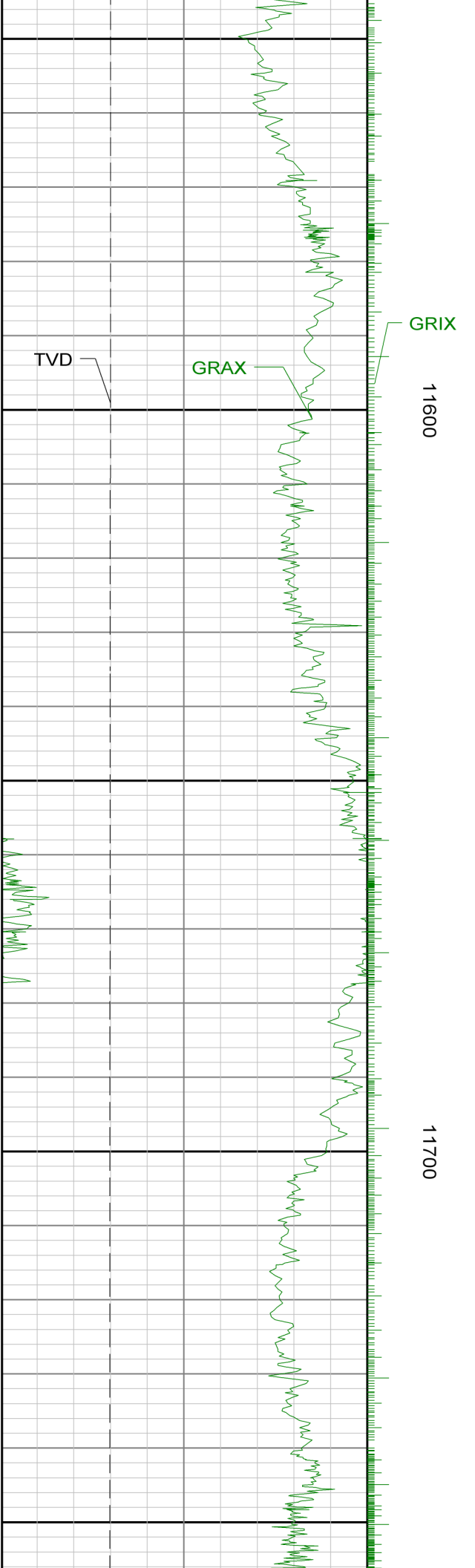


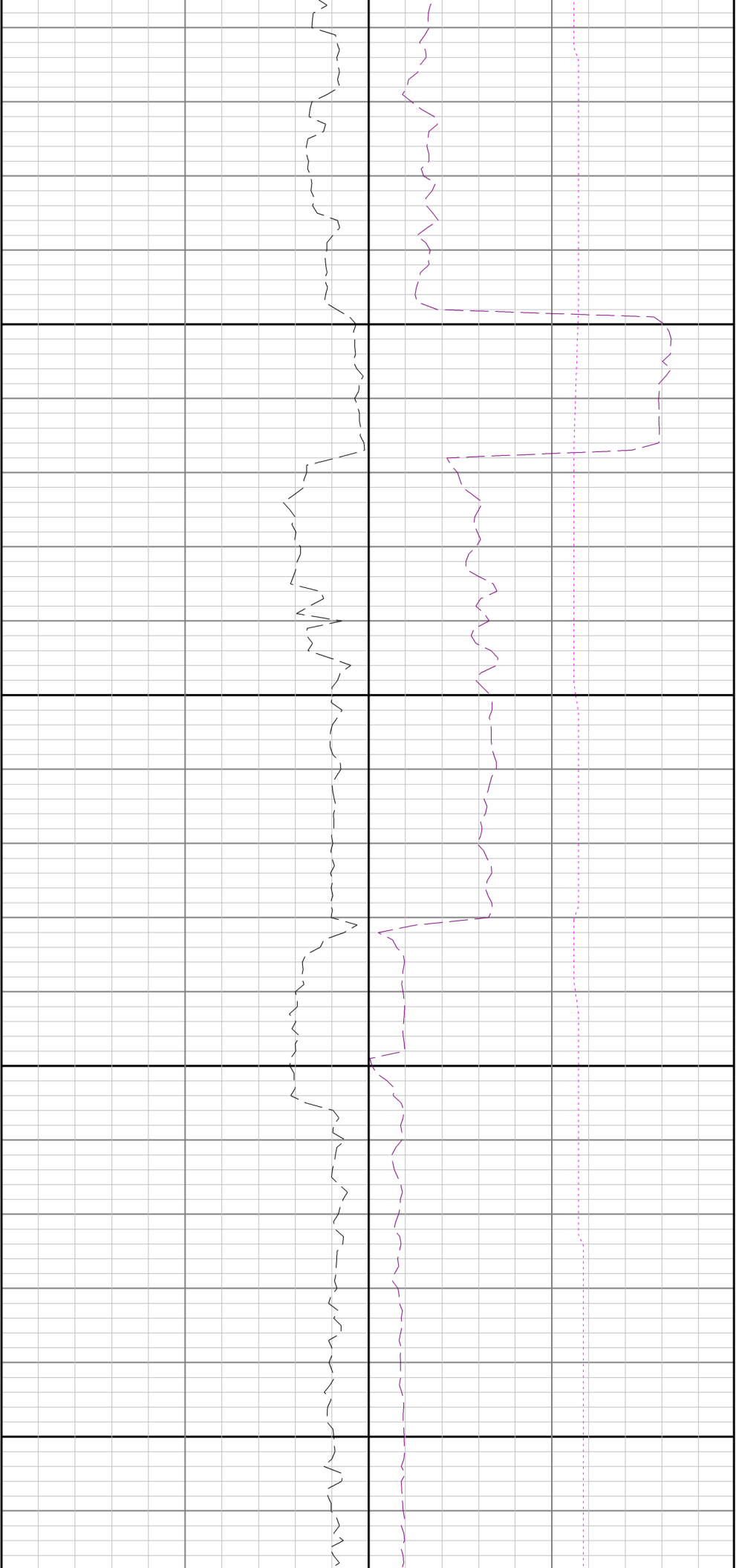
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Run 3

See Remark 3

▷ Run 4

12000

12100

