



Realtime Logs

Natural Formation Evaluation
Gamma Ray

Scale:

Company: Anadarko E&P

Well: BADDING 36C-35HZ

Field: Weld County (Kerr McGee)

County: Continental US State: United States

Status:

Final Print

Surface Location:

Latitude: 40° 6' 10.753" N

Longitude: 104° 44' 30.995" W

Other Services:

Directional

API Number:
05-123-3840900

Section26

TWN: 2N

Rang66E

Permanent Datum (P.D.): Ground Level

Elevation: 5112.00 ft.

Elevations: 17.00 ft.

Log Measured From: Kelly Bushing

17.00 ft.

Above P.D.

KB: 17.00 ft.
DF: 5112.00 ft.
GL: 5129.00 ft.

Depth Reference:

Drillers Depth

GL: 5129.00 ft.

Interval Logged

Dates

Magnetic Field Reference

Top: 7064.0 ft. Date From: 21/Feb/14 Date To: 03/Mar/14 Dip Angle: 66.79° Azl Reference North: True

Bottom: 0.0 ft. Date To: 03/Mar/14 Total Mag to Reference

Spud Date: 21/Feb/14 Field Strength: 52901.0 nT North Correction: 8.33°

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
13.500 in.	Surface	1330.0 ft.	9.625 in.	36.00 lb/ft	Surface	1330.0 ft.
8.750 in.	1330.0 ft.	8040.0 ft.	7.000 in.	26.00 lb/ft	6790.0 ft.	8034.0 ft.
6.125 in.	8040.0 ft.					

Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Based Mud	Surface	12726.0 ft.	13.500 in.	Surface	0.0° / 0.0°	0.5° / 188.3°
			8.500 in.	Vertical/Curve	0.5° / 188.3°	84.4° / 174.3°
			6.123 in.	Lateral	84.4° / 174.3°	91.0° / 176.5°
					/	/
					/	/
					/	/

Acquisition System

Software Version

Other

Advantage	2.20U4	Rig / Contractor:	Xtreme 8	/ X-Treme Coil Drilling
PATS	6.4.1.34	Job No:	6053280	
		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 (m.)	Bottom (m.)	From (m.)	To (m.)	Start	End	
1	1	2	8.750	PDC	N/A	Mud Motor	7064.0	7860.0	7108.0	7904.0	21/Feb/2014 11:44	25/Feb/2015 00:00	74
2	2	3	8.750	PDC	N/A	Mud Motor	7860.0	8004.0	7904.0	8040.0	25/Feb/2014 02:50	26/Feb/2015 16:15	24.9
3	3	4	6.125	PDC	N/A	Mud Motor	8004.0	10400.0	8040.0	10450.0	27/Feb/2014 23:00	02/Mar/2014 16:00	37.37
4	4	5	6.125	PDC	N/A	Mud Motor	10400.0	13666.0	10450.0	13715.0	02/Mar/2014 21:15	06/Mar/2014 14:10	79.6

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Kevin Sheridan	21/Feb/2014	06/Mar/2014	Steven Cano	21/Feb/2014	06/Mar/2014			

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+ (%)
22/Feb/2014 21:30	1	1319.0	Wated Based Mud	8.4	28	8.3	N/A	1/91	Flowline	1600	N/A
23/Feb/2014 21:30	1	7570.0	Wated Based Mud	10.1	44	9.3	N/A	2/88	Flowline	3300	N/A
25/Feb/2014 21:30	2	8022.0	Wated Based Mud	10.1	40	9.3	N/A	2/89	Flowline	3400	N/A
28/Feb/2014 21:30	3	8563.0	Wated Based Mud	9.7	49	9.4	N/A	3/90	Flowline	3300	N/A
02/Mar/2014 21:00	3	10446.0	Wated Based Mud	9.9	40	9.2	N/A	3/89	Flowline	2300	N/A
03/Mar/2014 21:00	3	11333.0	Wated Based Mud	10.0	52	9.8	N/A	3/89	Flowline	2500	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.)
1	DIR	12592563	Directional	47.40	6.750	0.000
1	SRIG	12354931	Gamma	44.02	6.750	0.000
2	DIR	12093879	Directional	39.85	6.750	0.000
2	SRIG	12131407	Gamma	36.42	6.750	0.000
3	DIR	12373459	Directional	54.11	4.750	0.000
3	SRIG	10595781	Gamma	50.73	4.750	0.000
4	DIR	12546339	Directional	52.24	4.750	0.000
4	SRIG	12622668	Gamma	48.86	4.750	0.000

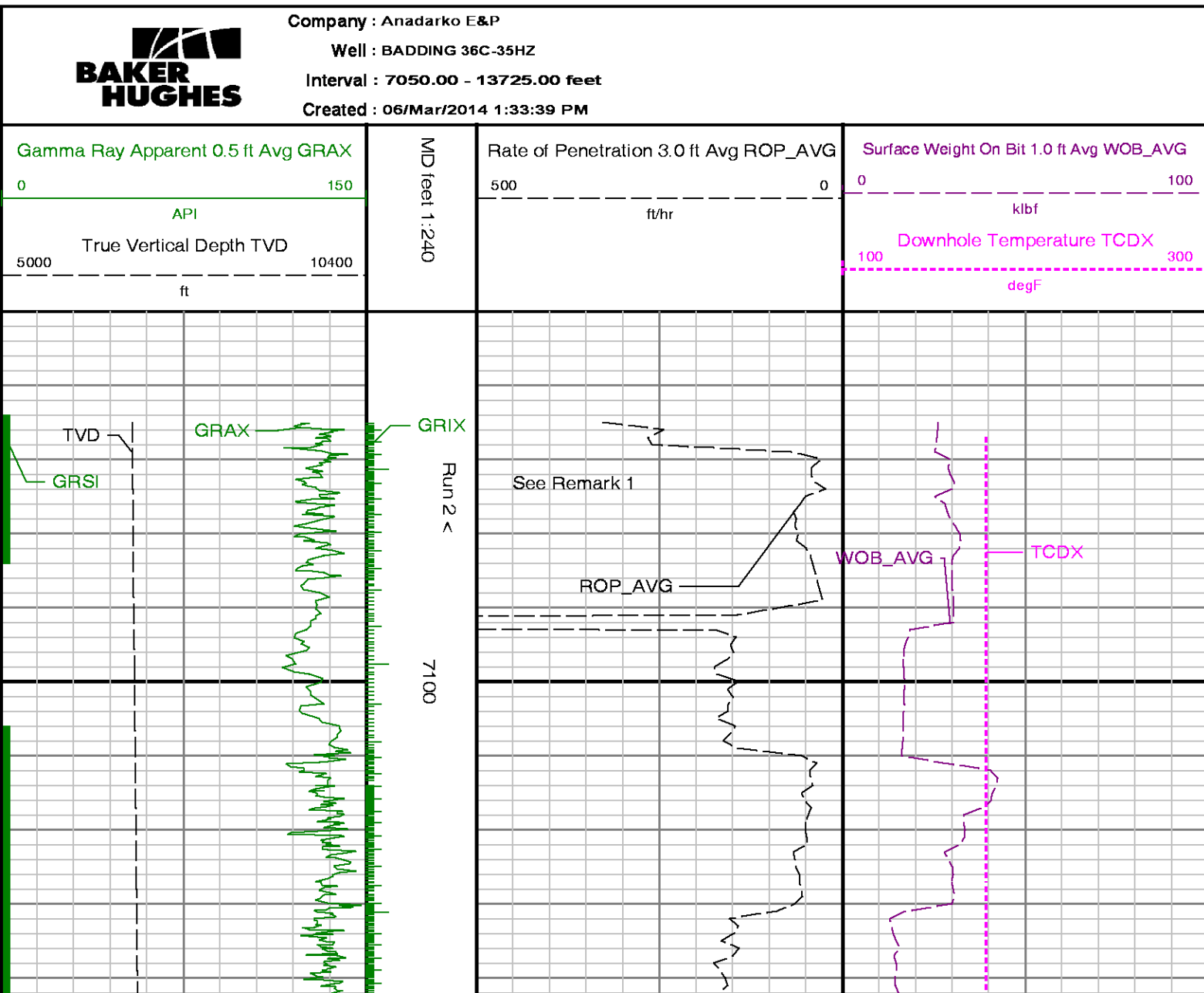
Service and Tool Mnemonics

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 1330 to 8040 feet MD (1330 to 7566 feet TVD)
(2) Baker Hughes INTEQ run 3 and 4 utilized 4 3/4 inch NaviTrak services (Gamma Ray and Directional) behind an 6 1/8 inch bit and steerable assembly from 8040 to 12726 feet MD (7566 to 7356 71 feet TVD)

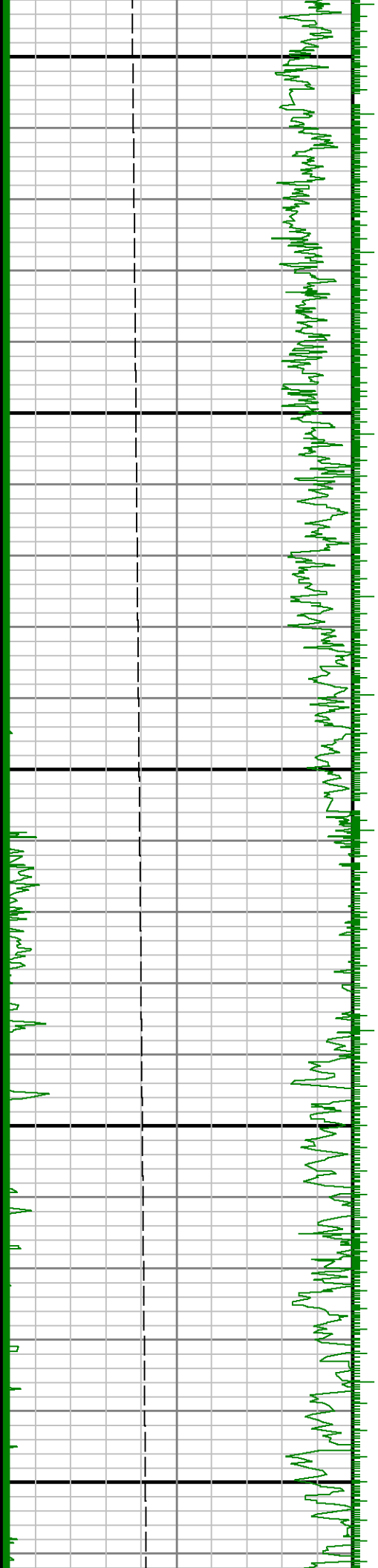
Remarks				
Number	Measured Depth (m.)	Hole Section (in.)	LWD Run No.	Remark
1	7065	8.750	1	The interval from Surface to 7065 feet MD (6933 feet TVD) was not logged due to Baker Hughes logging services beginning at the top of the curve section.
2	7860	8.750	2	The interval from 7860 to 7904 feet MD (7538 to 7549 feet TVD) was logged 24 hours after drilling due to a trip out of the hole to change out motor and MWD.
3	8004	8.750	3	The interval from 8004 to 8040 feet MD (7563 to 7566 feet TVD) was logged 46 hours after drilling for casing operations. Gamma data is attenuated due to logging behind casing
4	10450	6.125	4	The interval from 10400 to 10450 feet MD (7573 feet TVD) was logged 22 hours after drilling due to a trip out of the hole to change out motor and MWD.
5	13715	6.125	4	The interval from 13666 to 13715 feet MD (7546 feet TVD) was not logged due to sensor offsets to bit at TD.

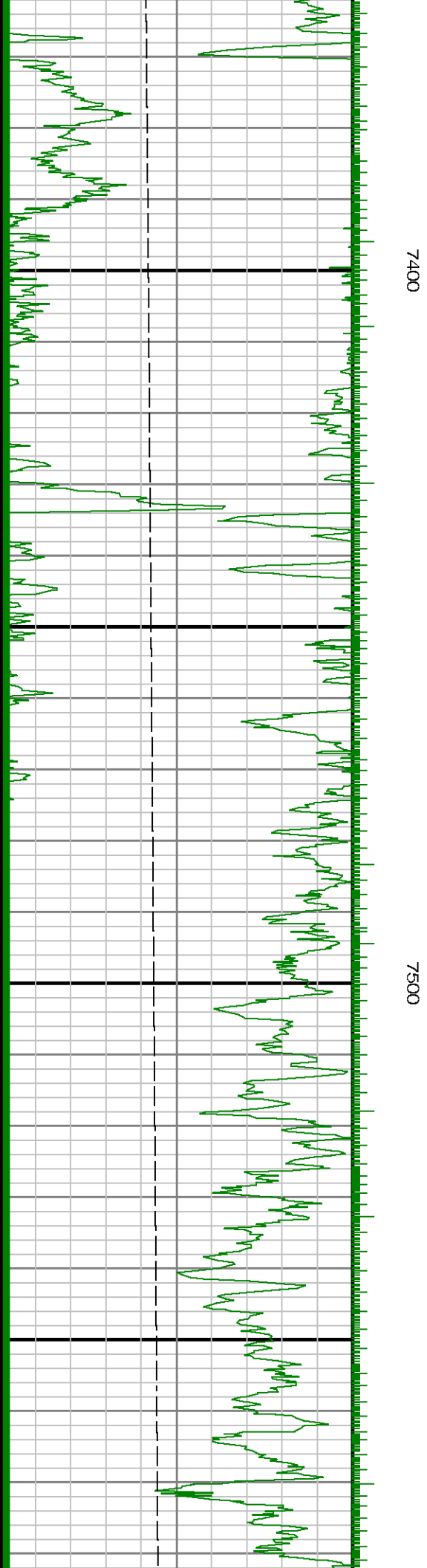


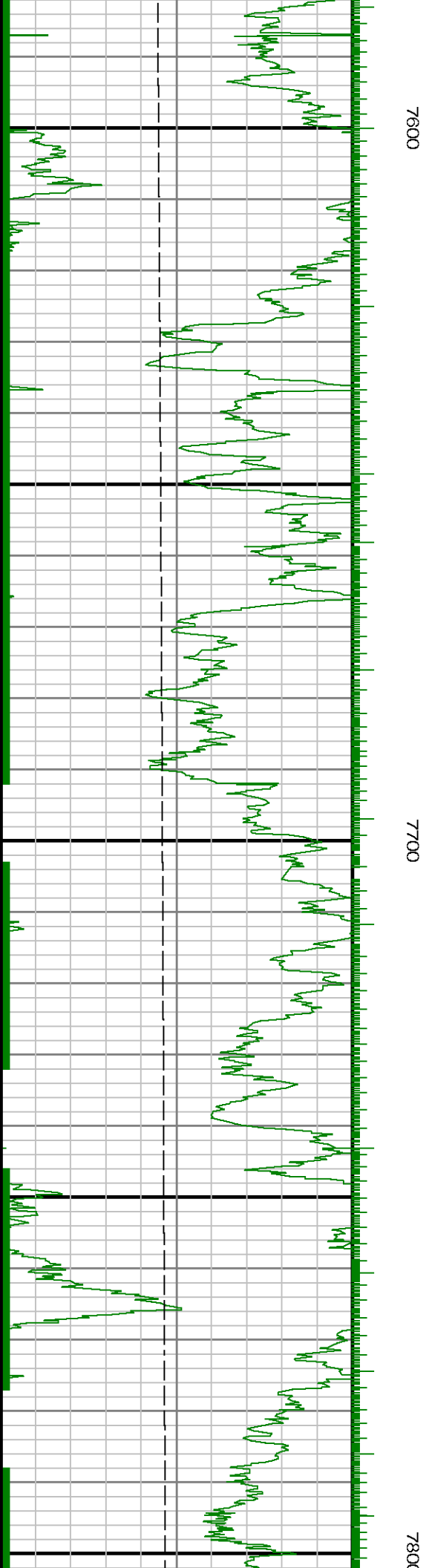
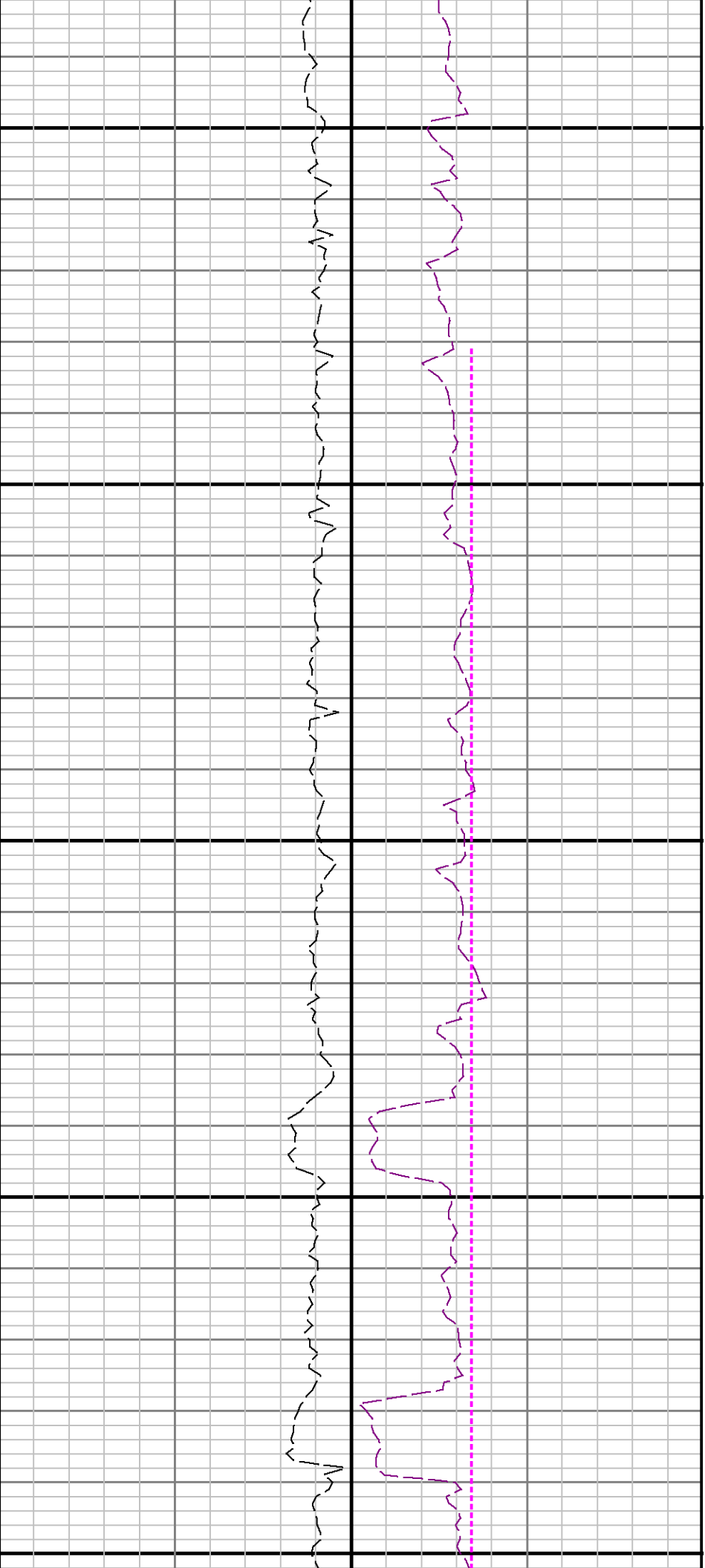


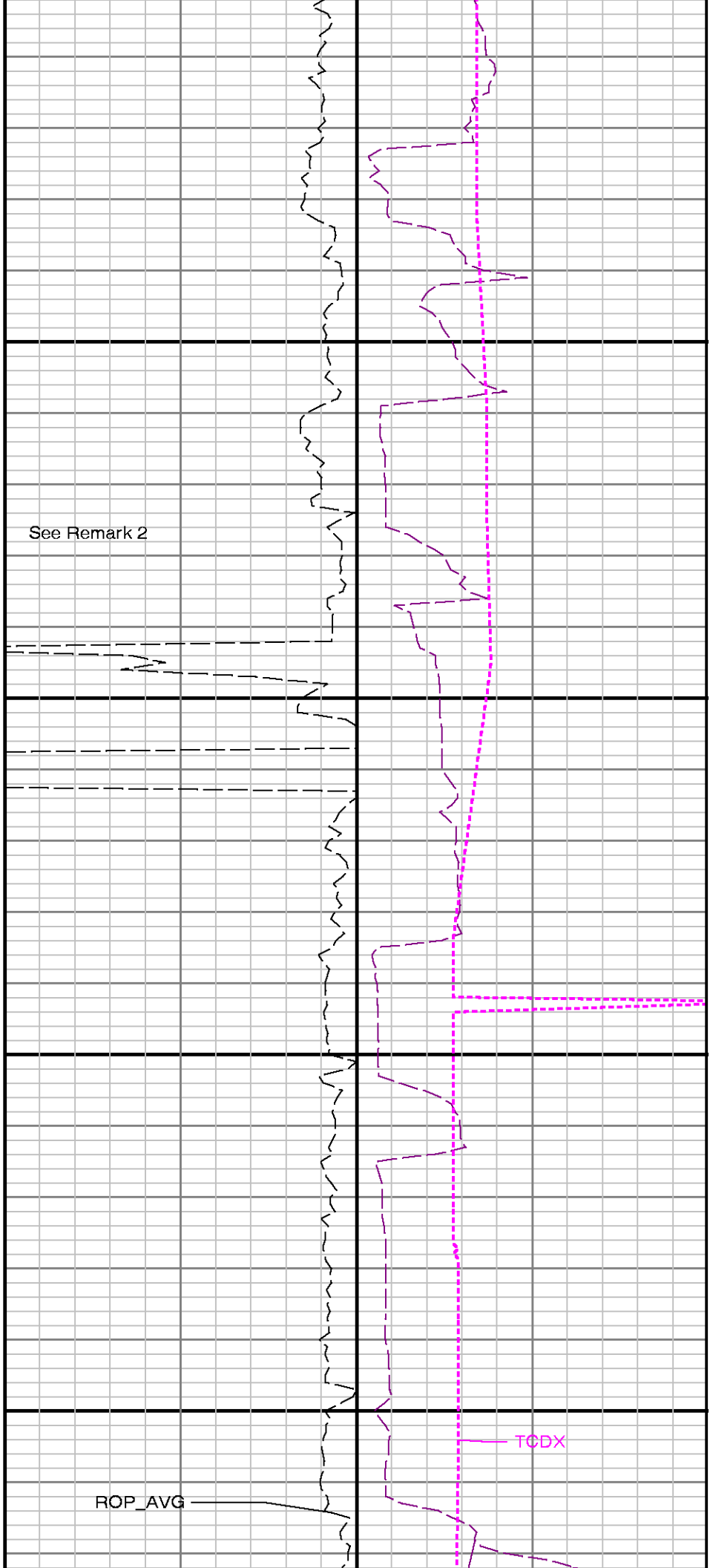
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7300





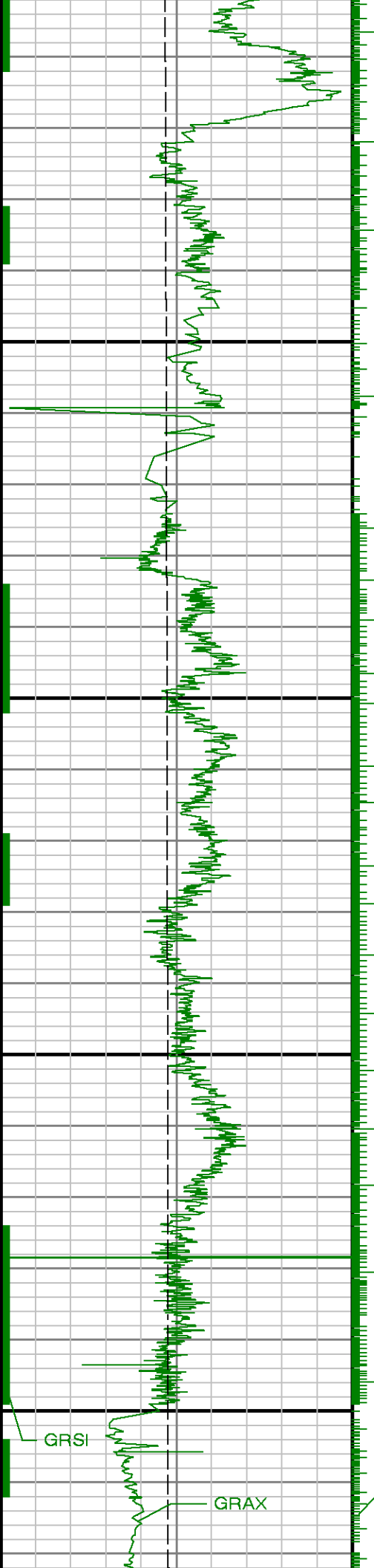




> Run 2 Run 3 <

8000

7900



See Remark 3

WOB_AVG

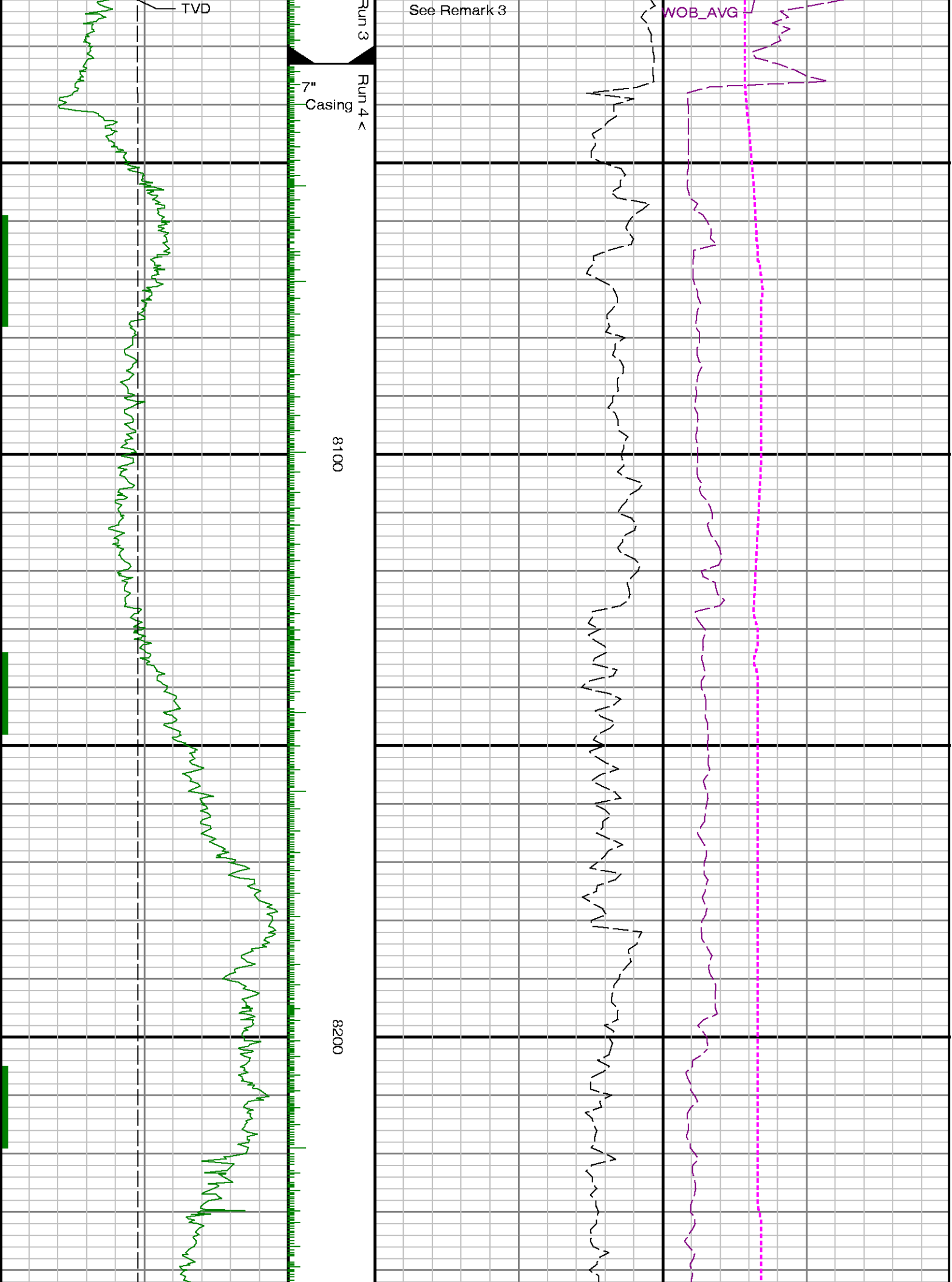
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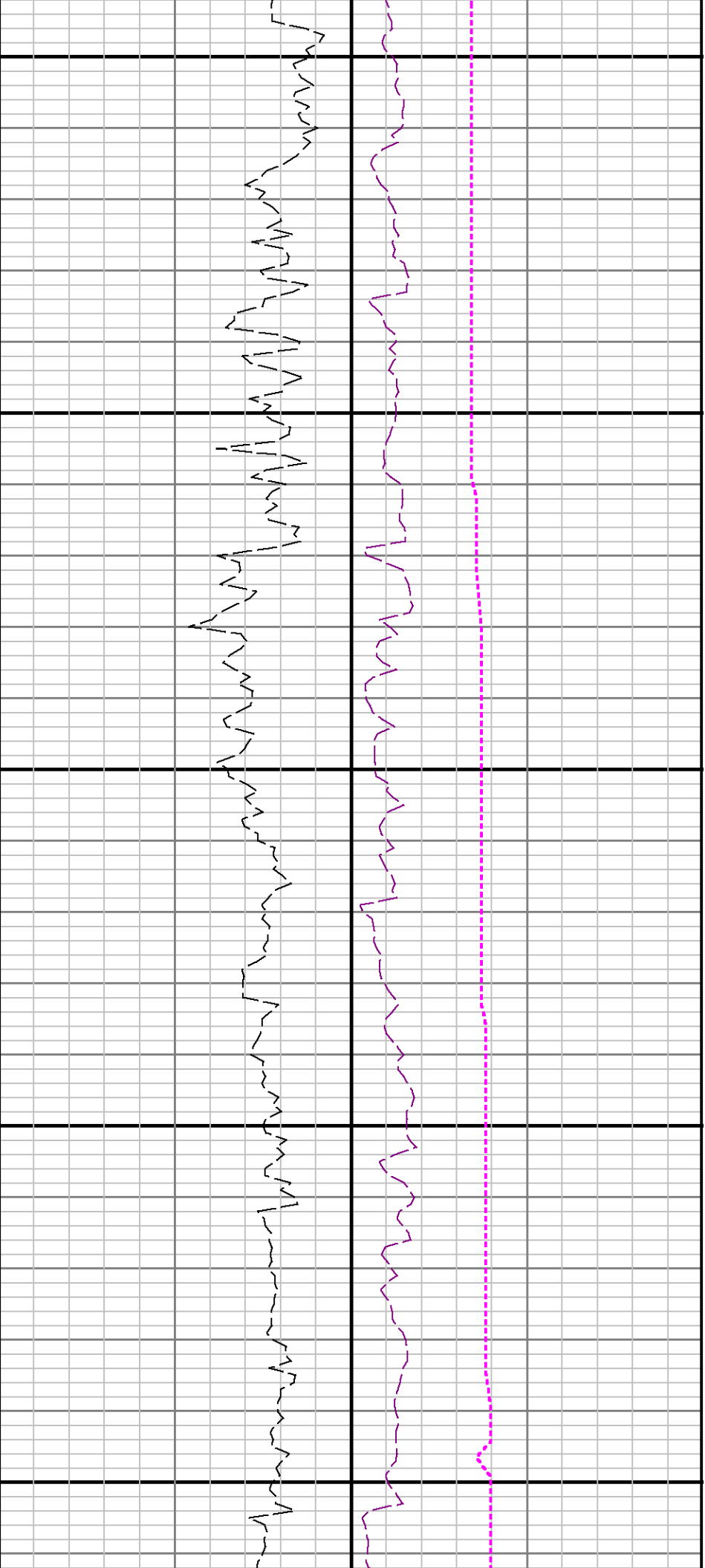
7" Casing
Run 4 >

8100

8200

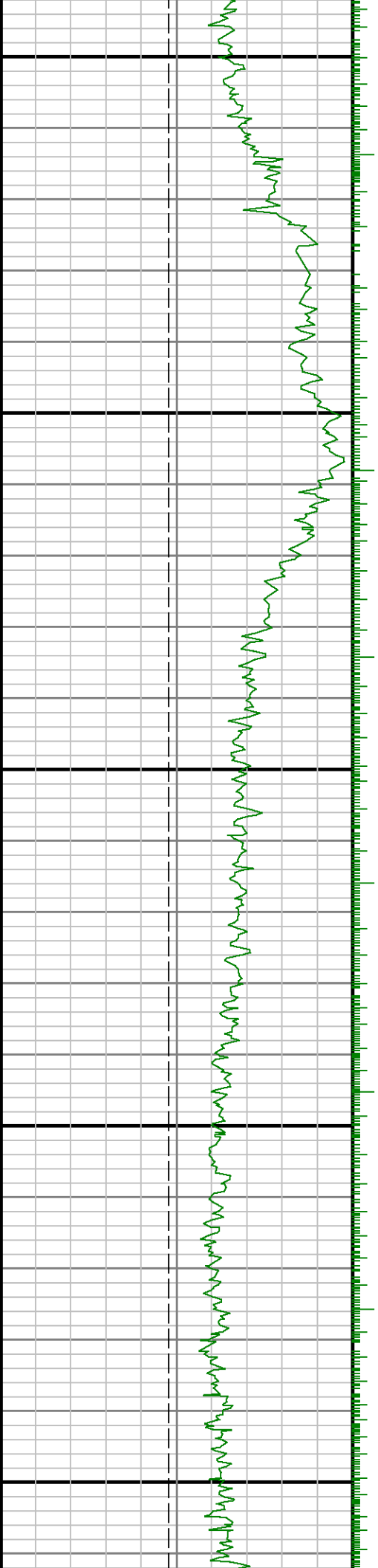
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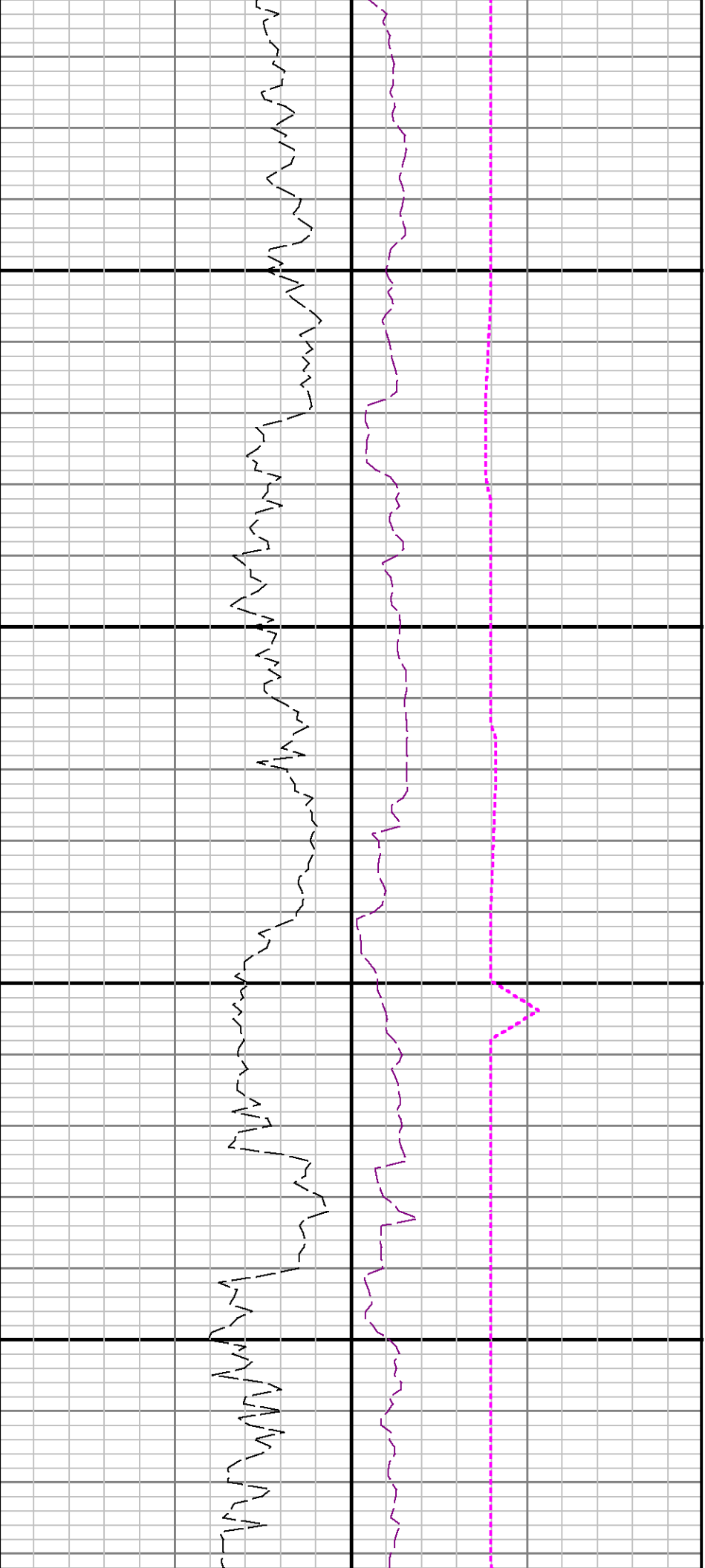




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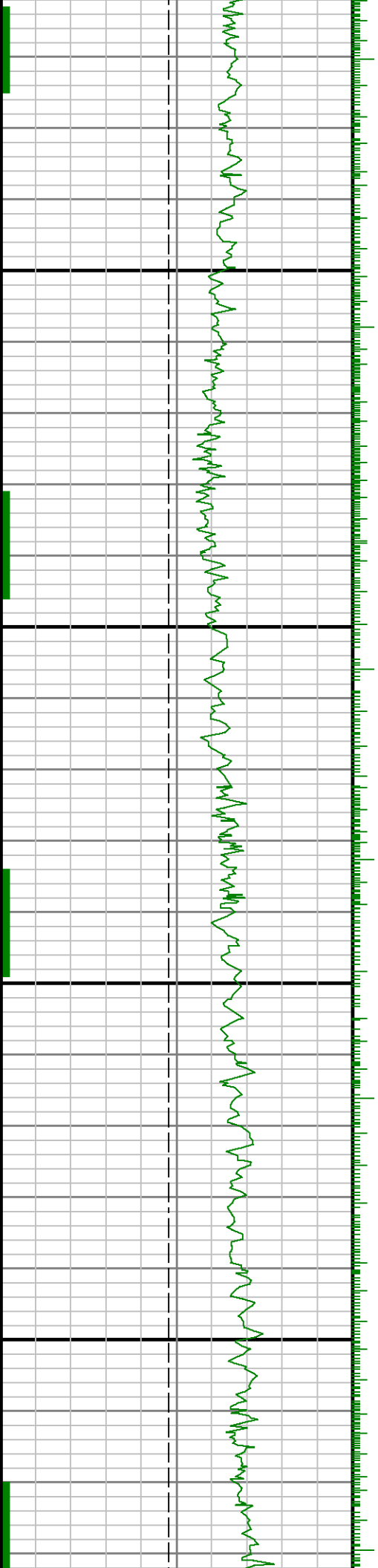
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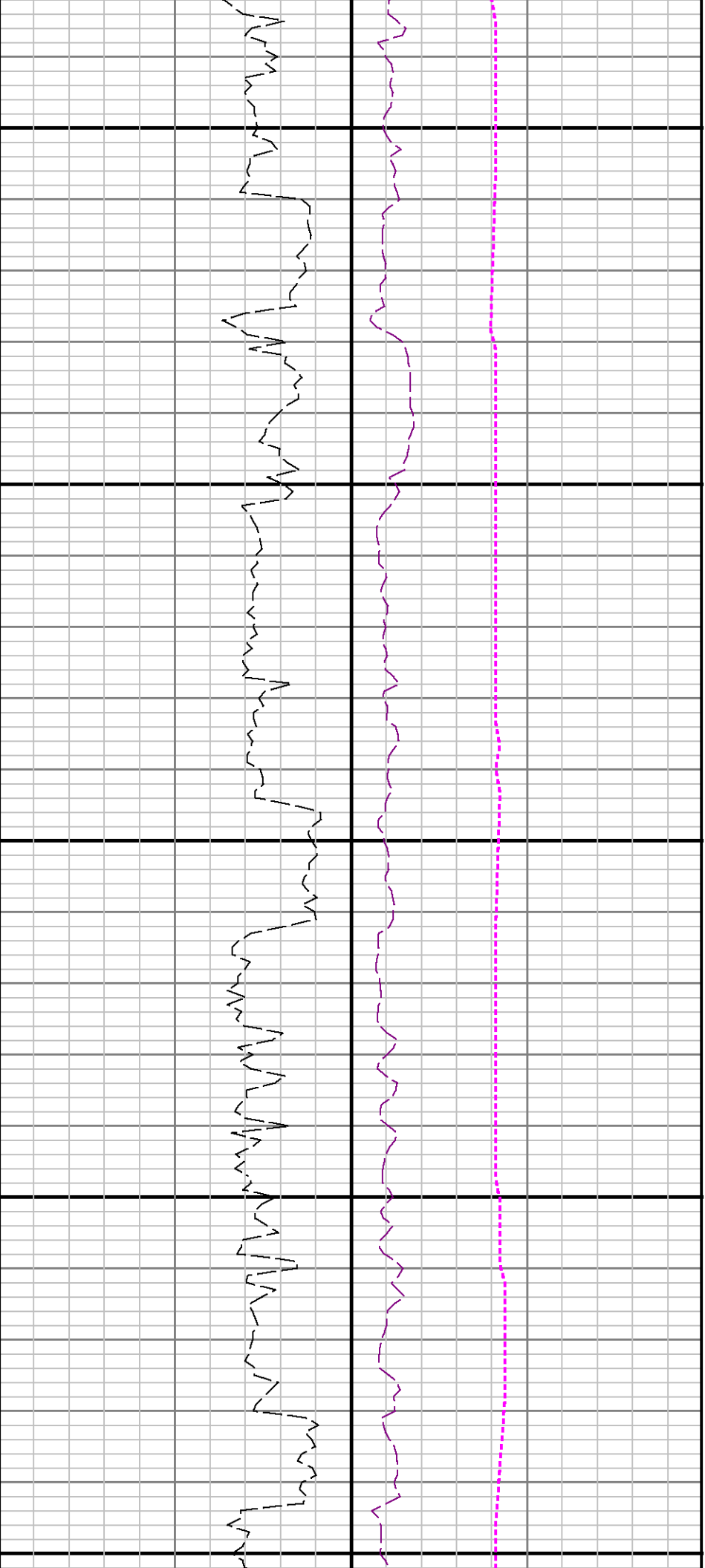




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8600

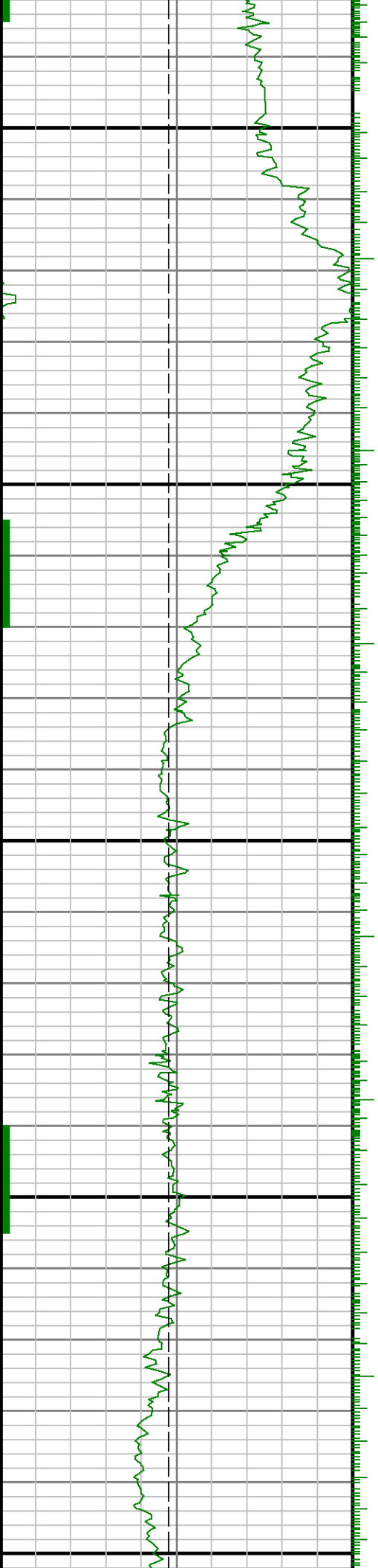


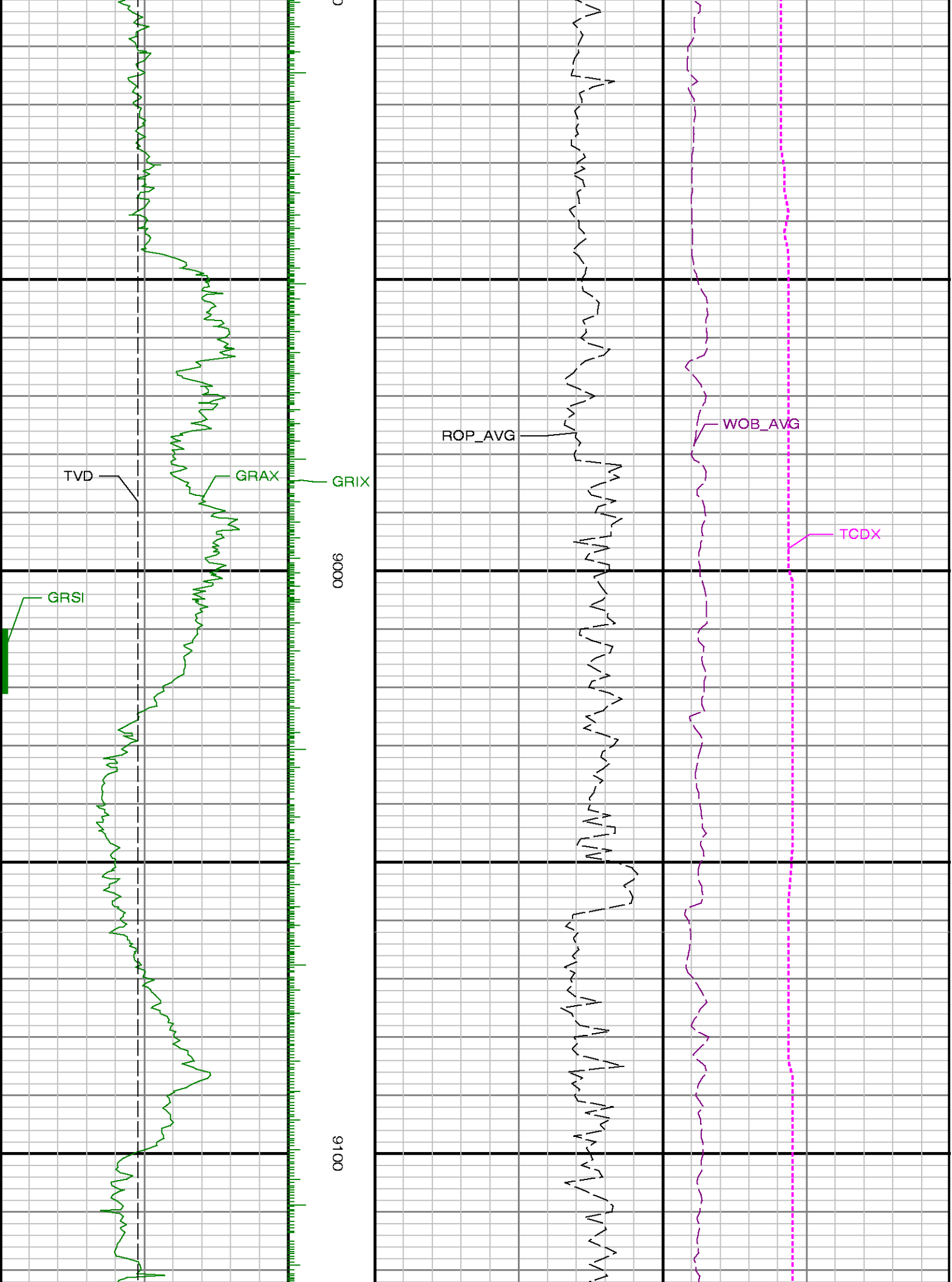


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8800

8900

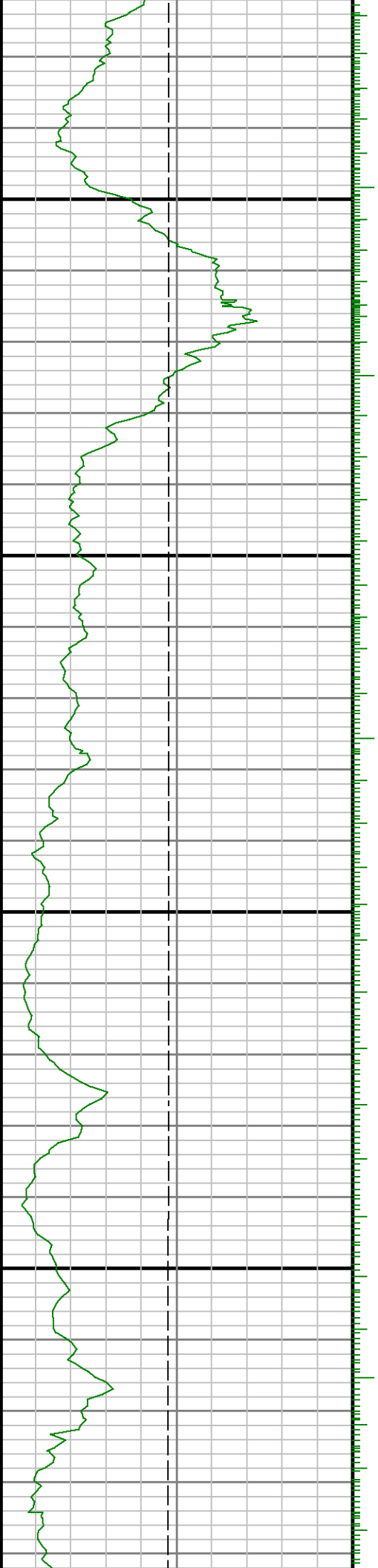


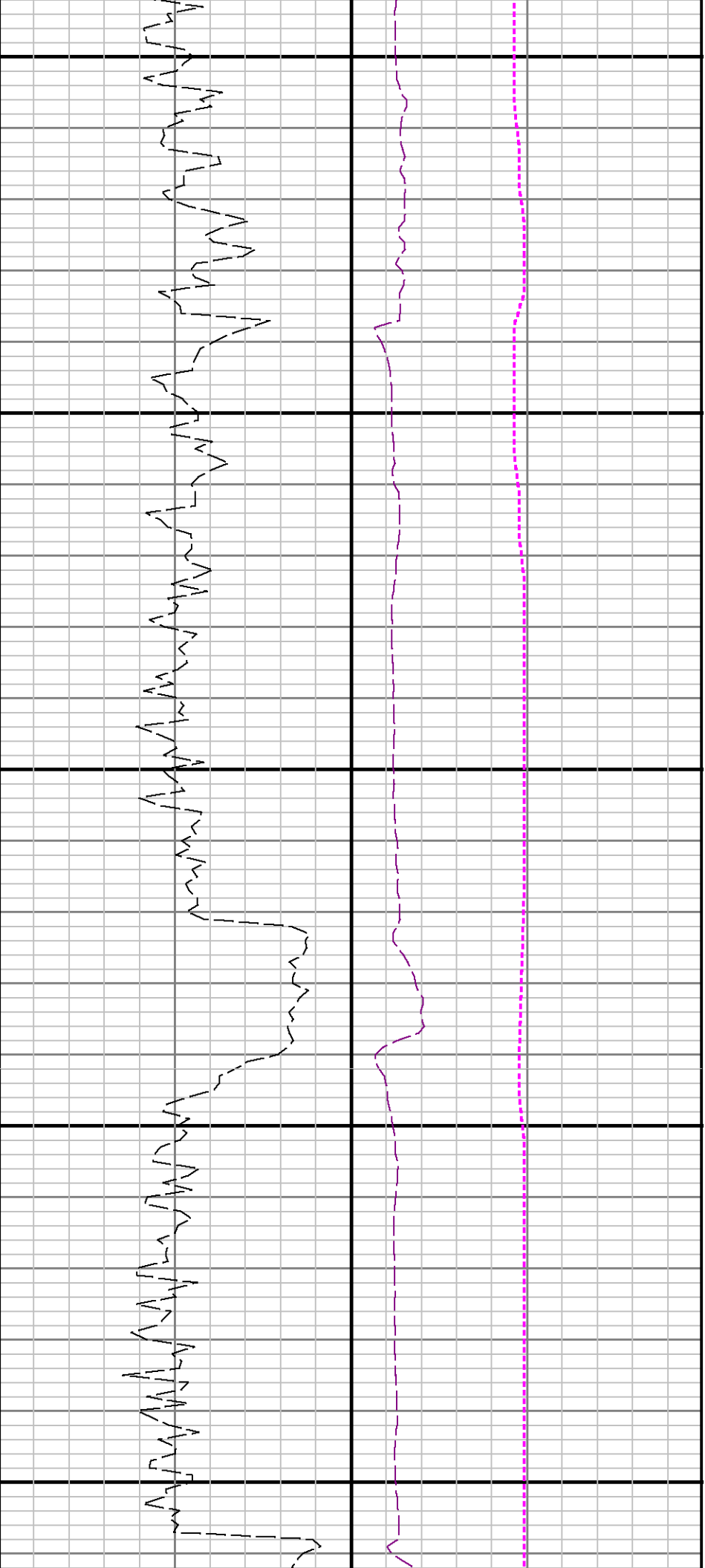




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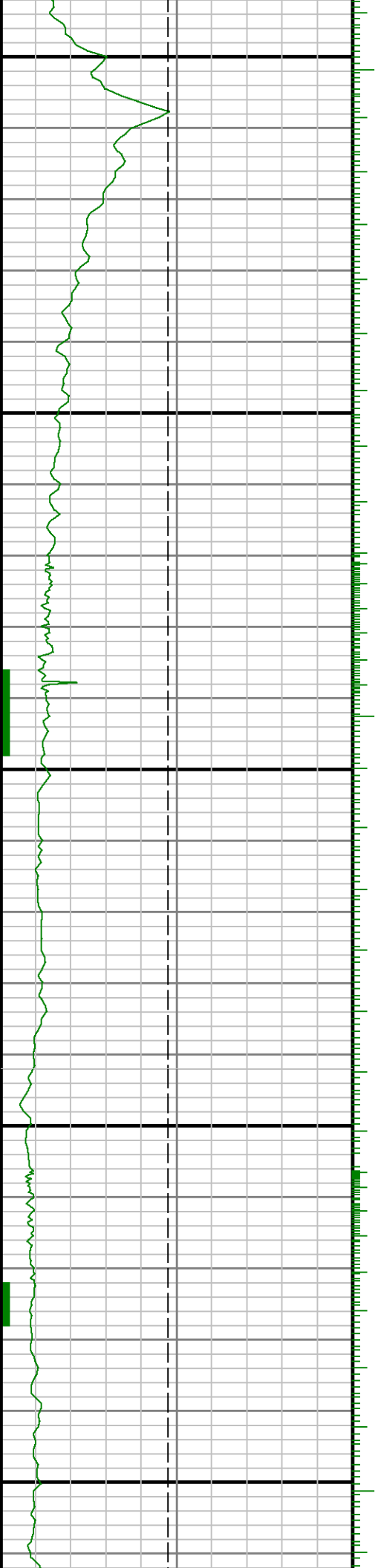
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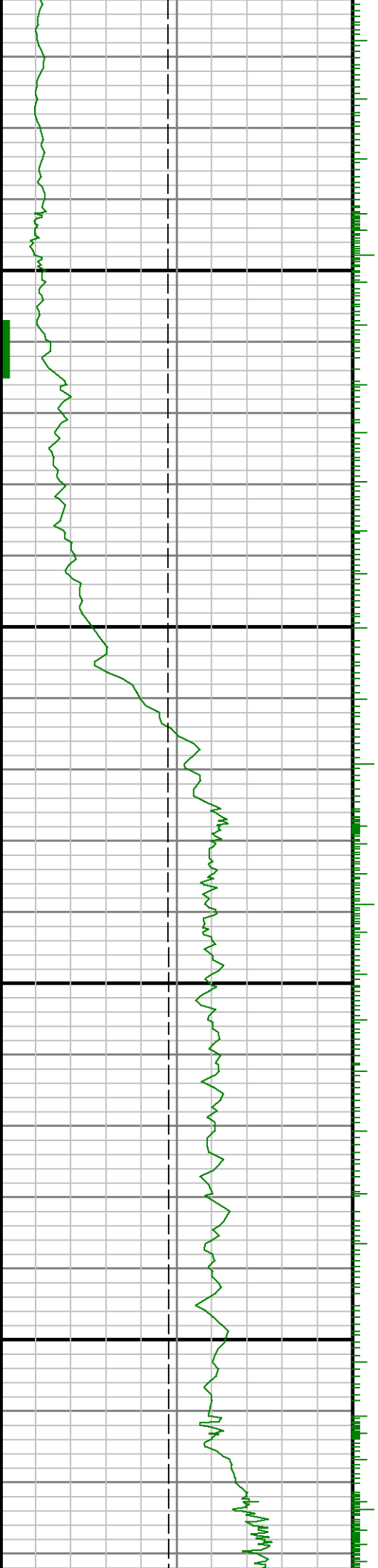




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9500

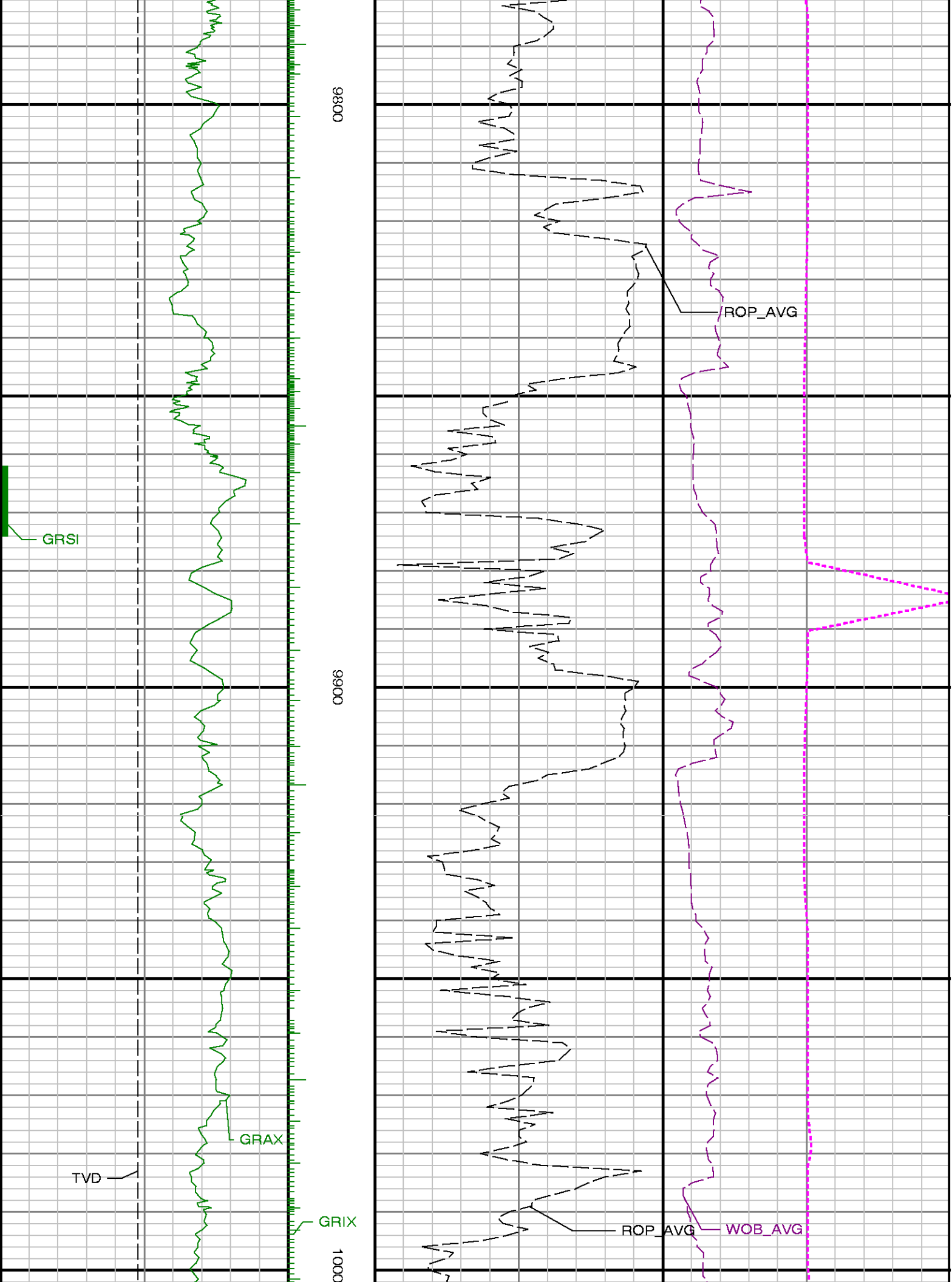


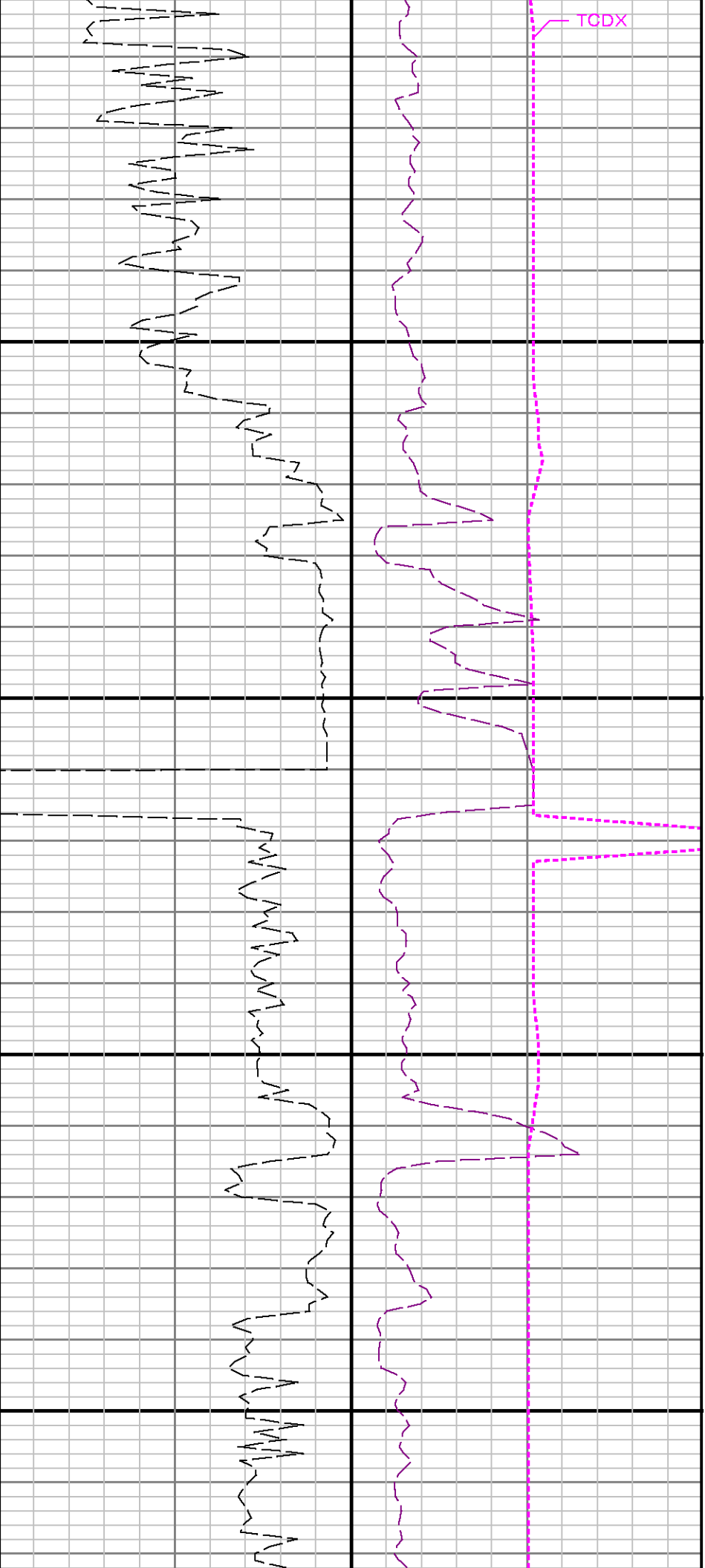


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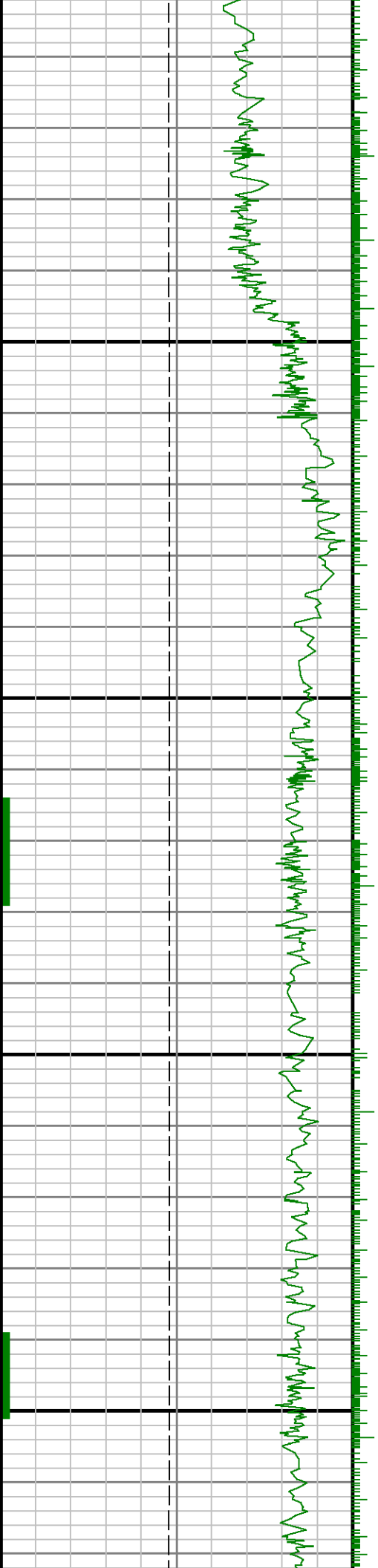
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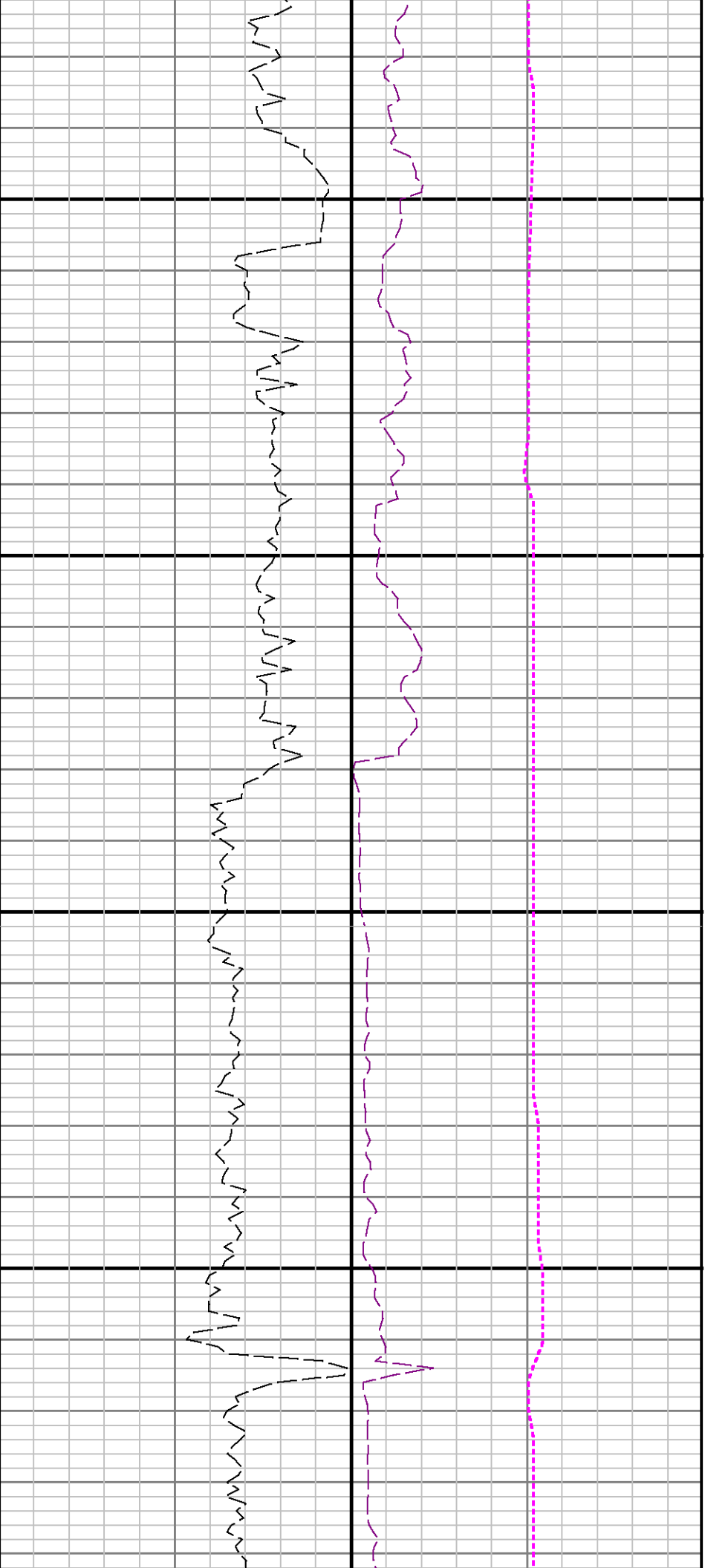






10100 10200

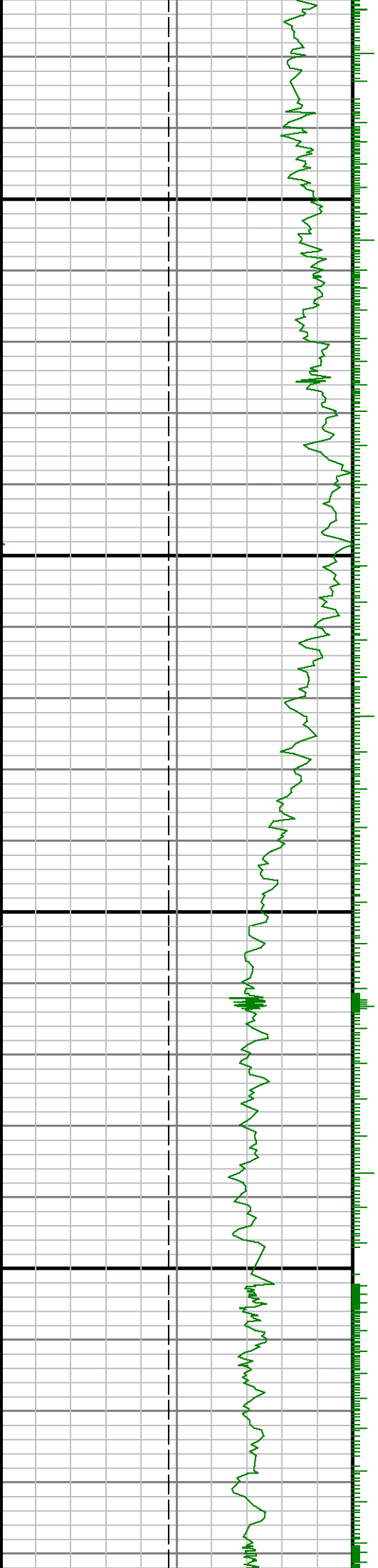




10300

10400

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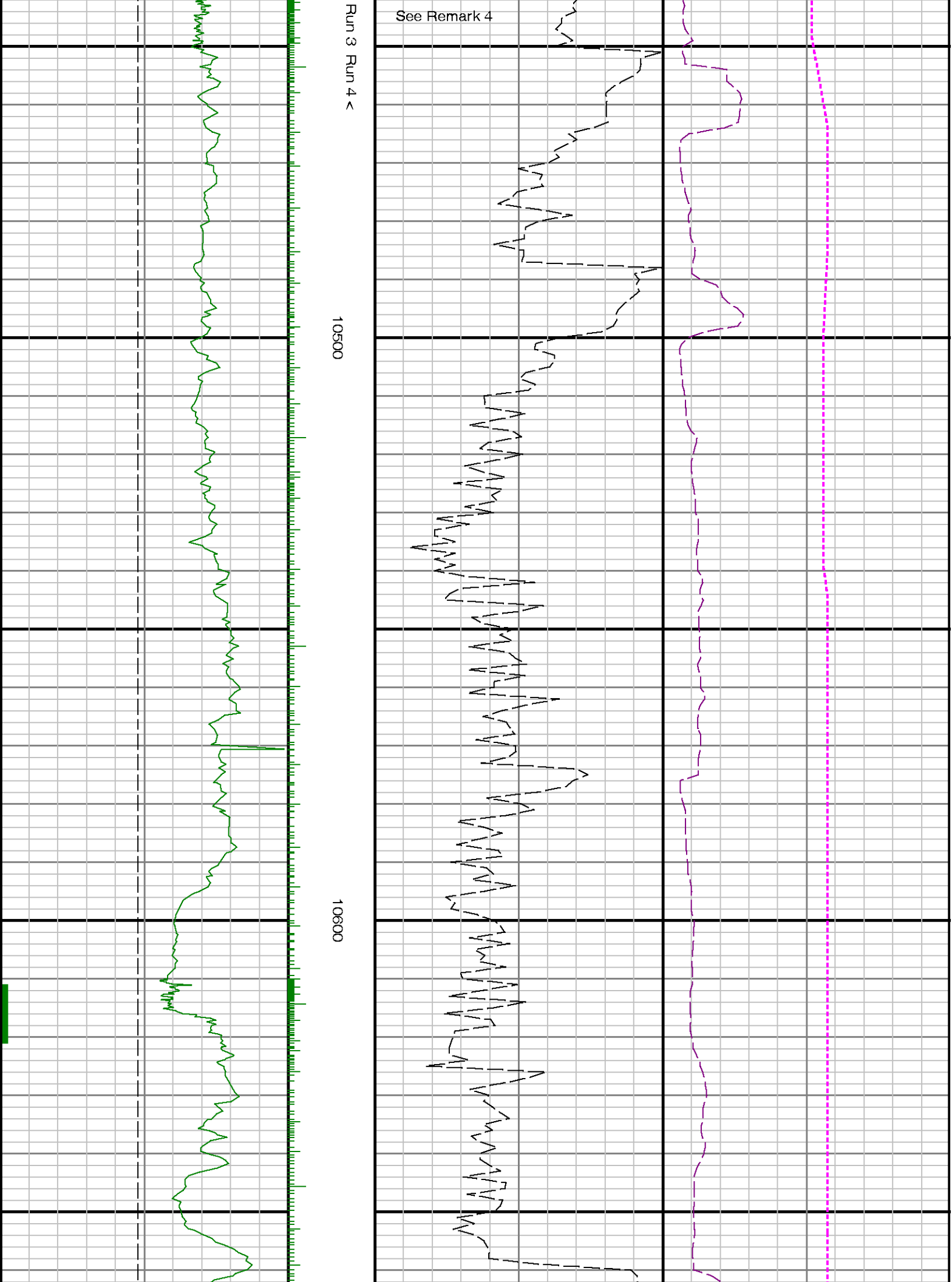


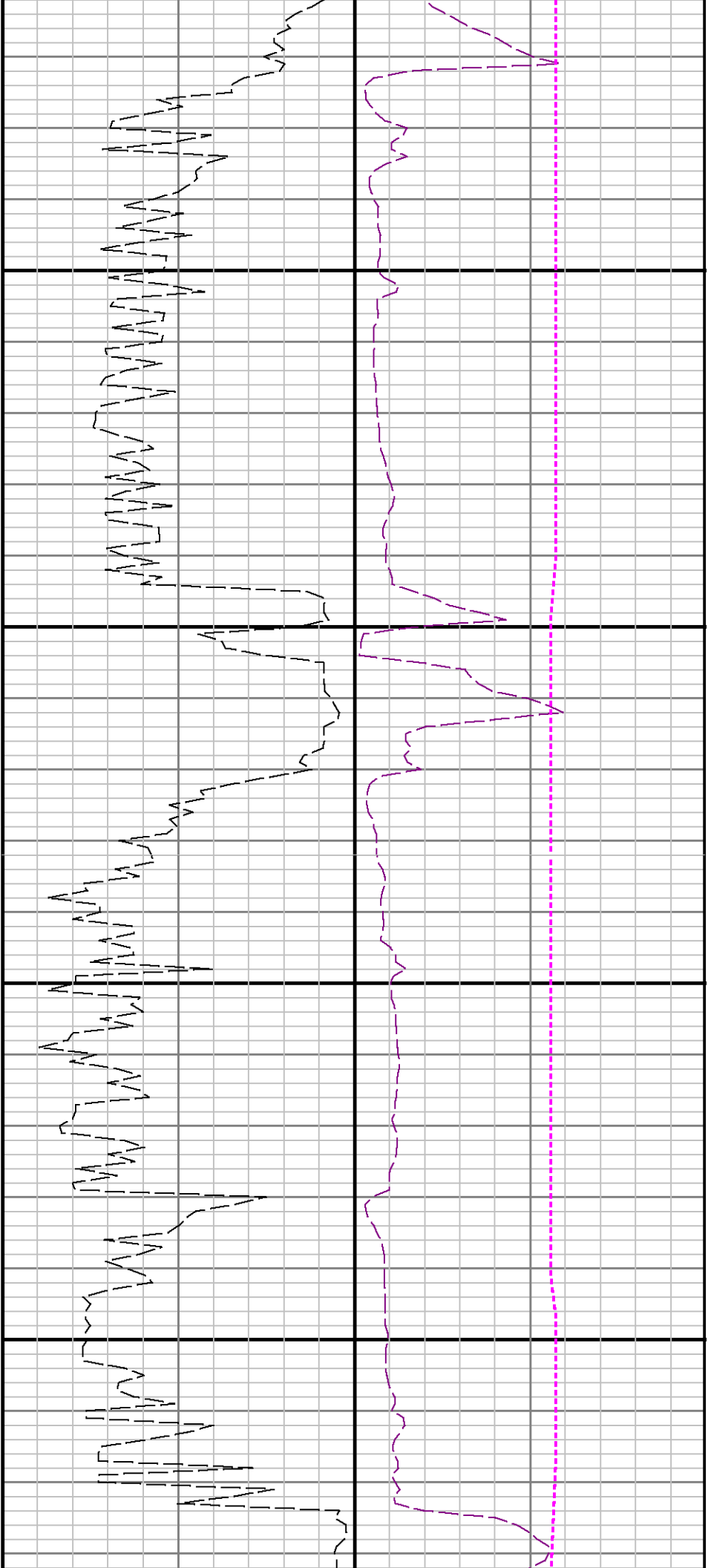
See Remark 4

Run 3 Run 4 <

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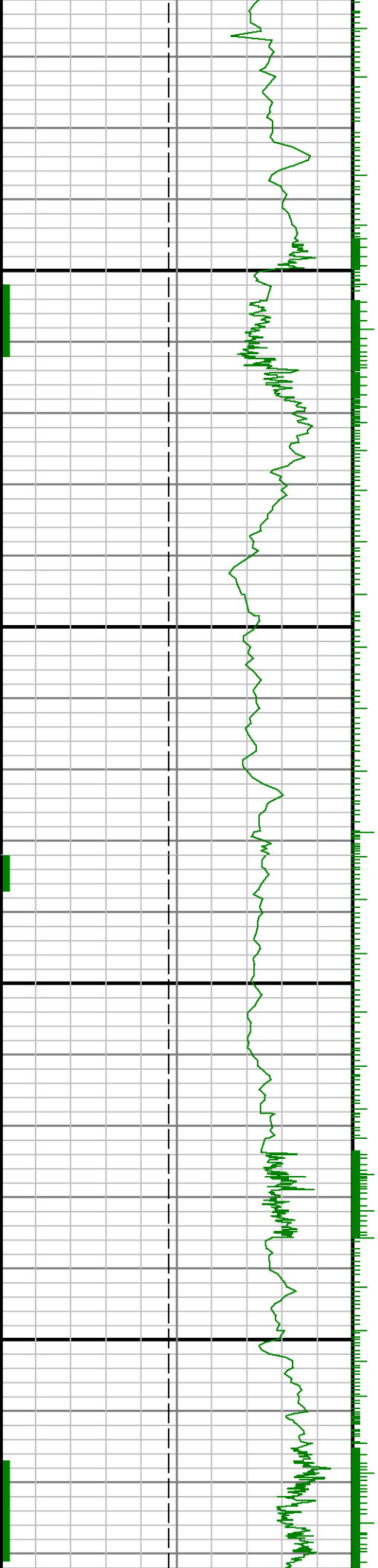
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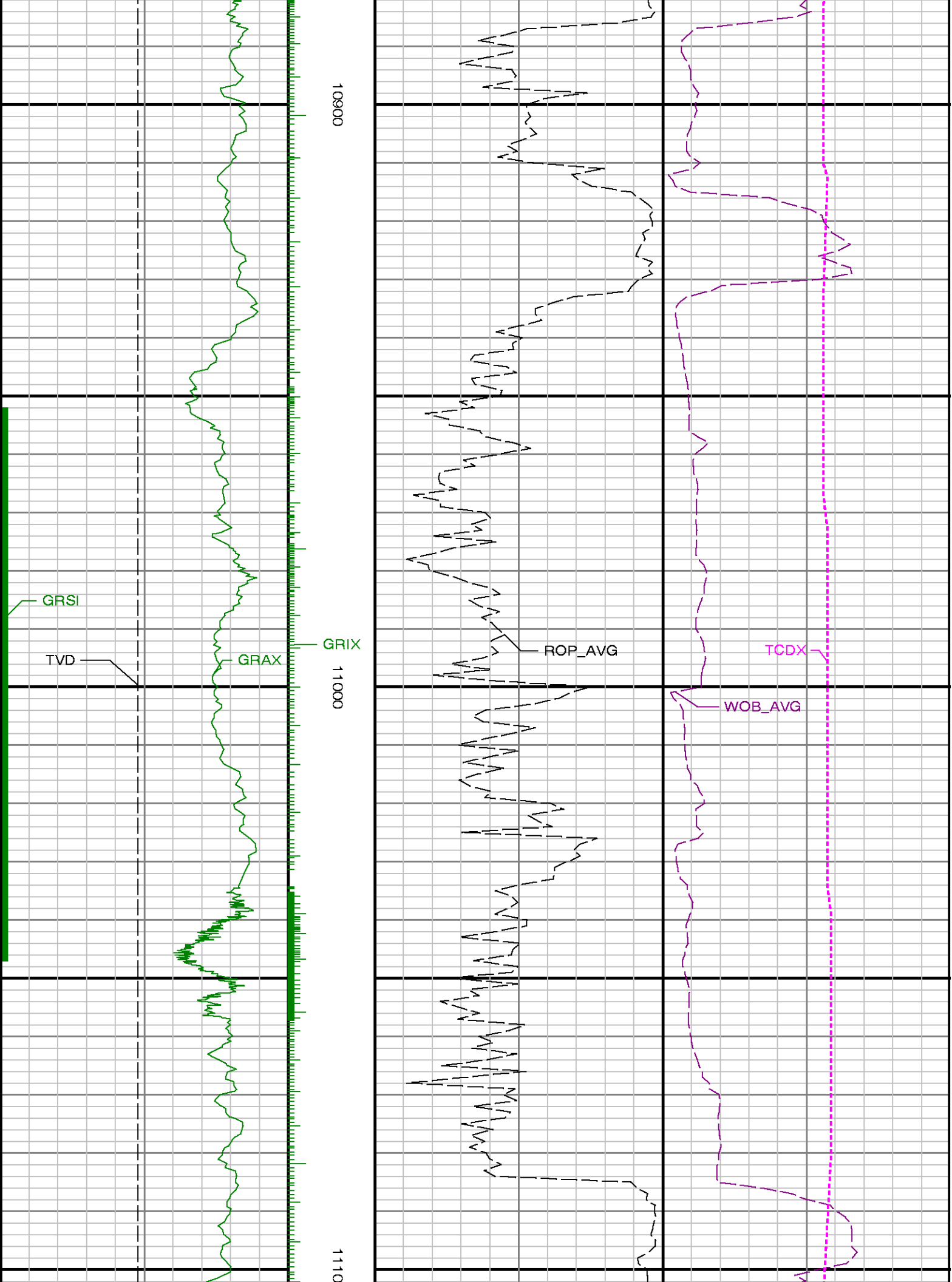


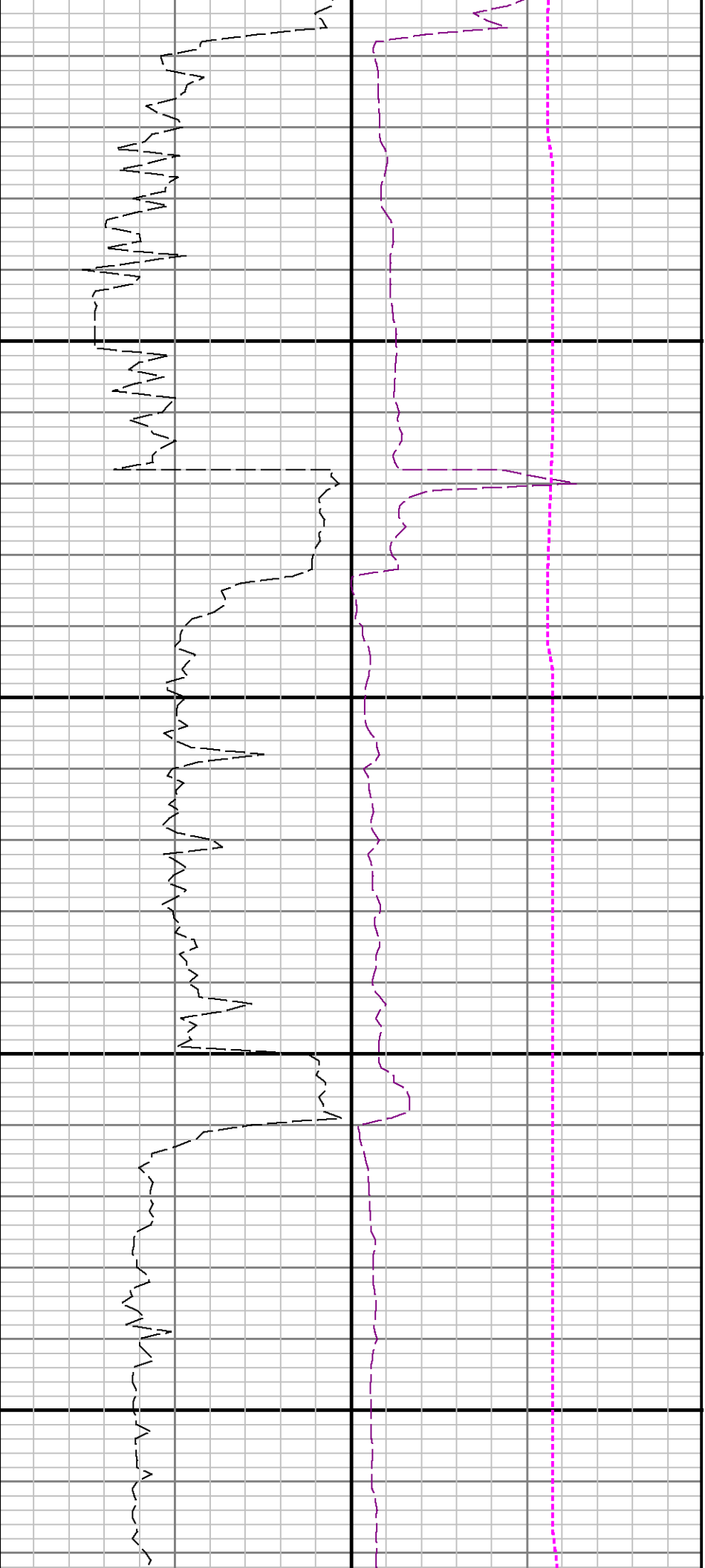


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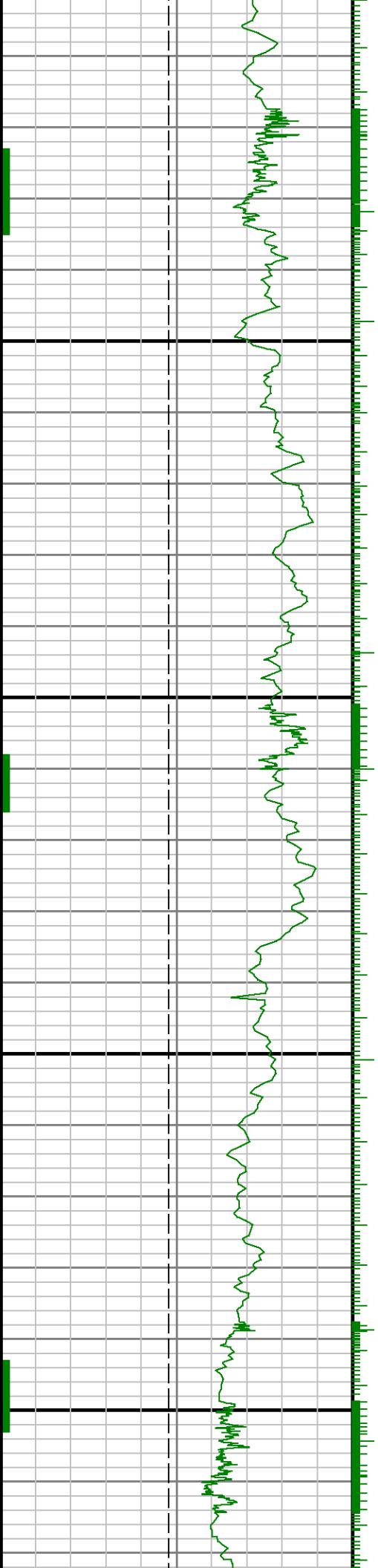


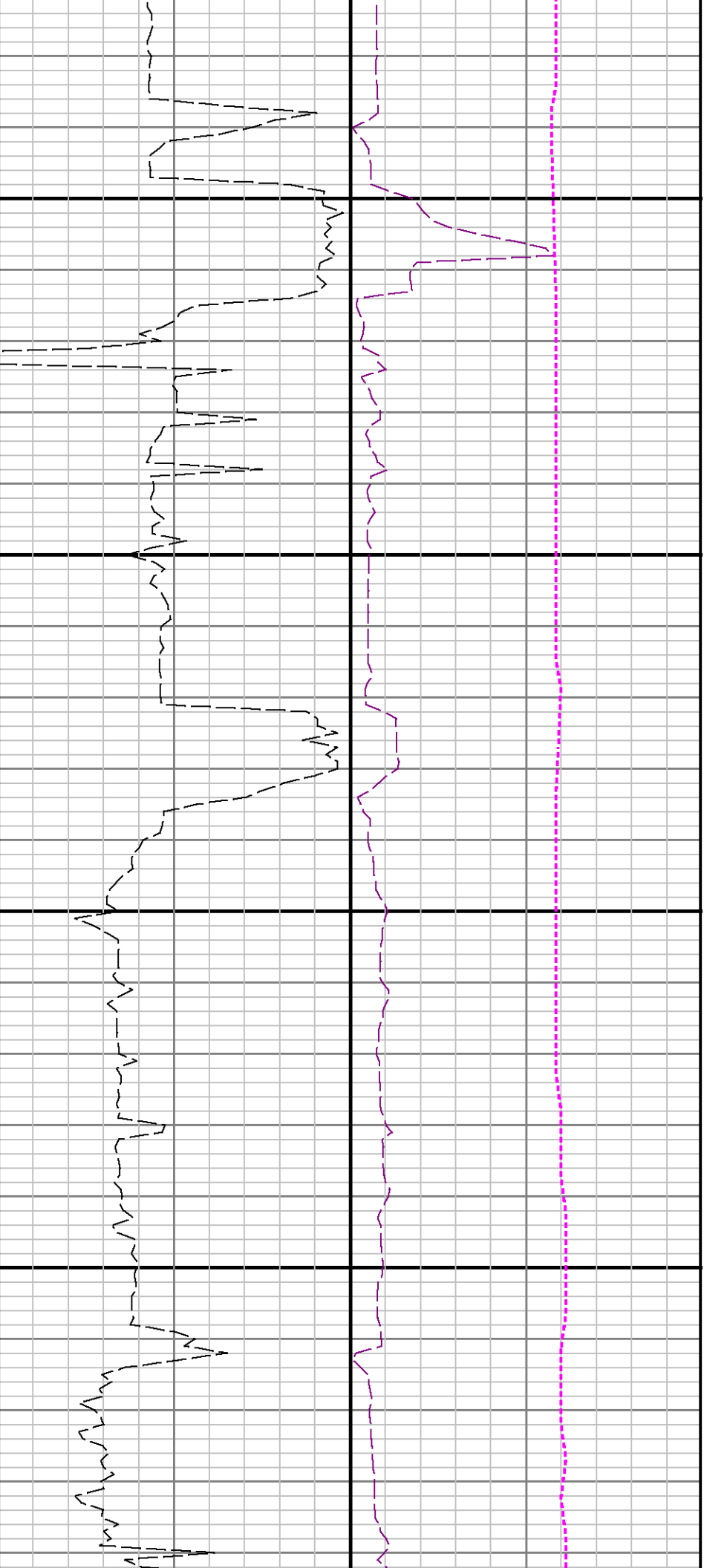




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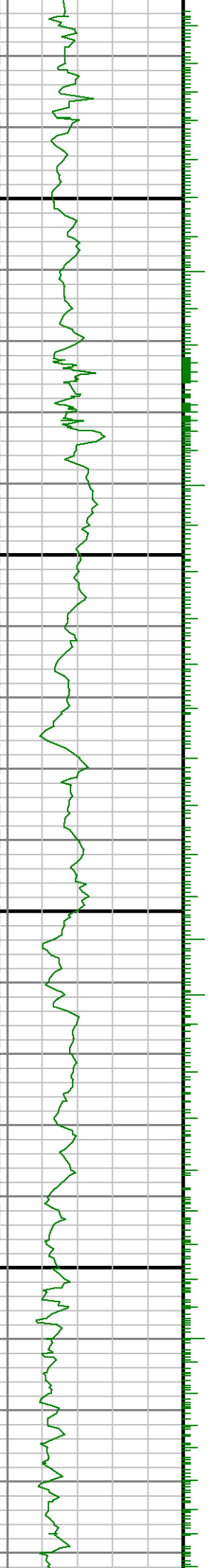
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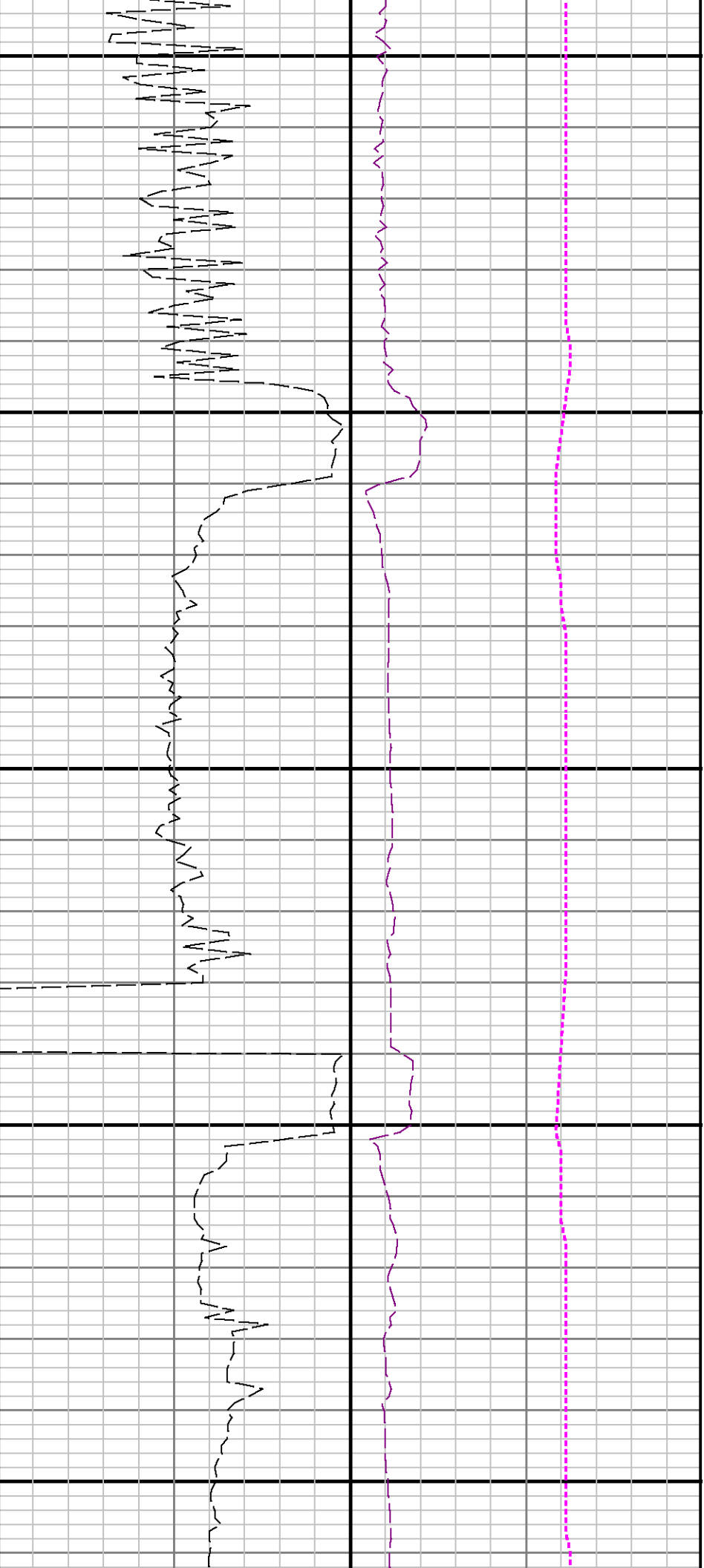




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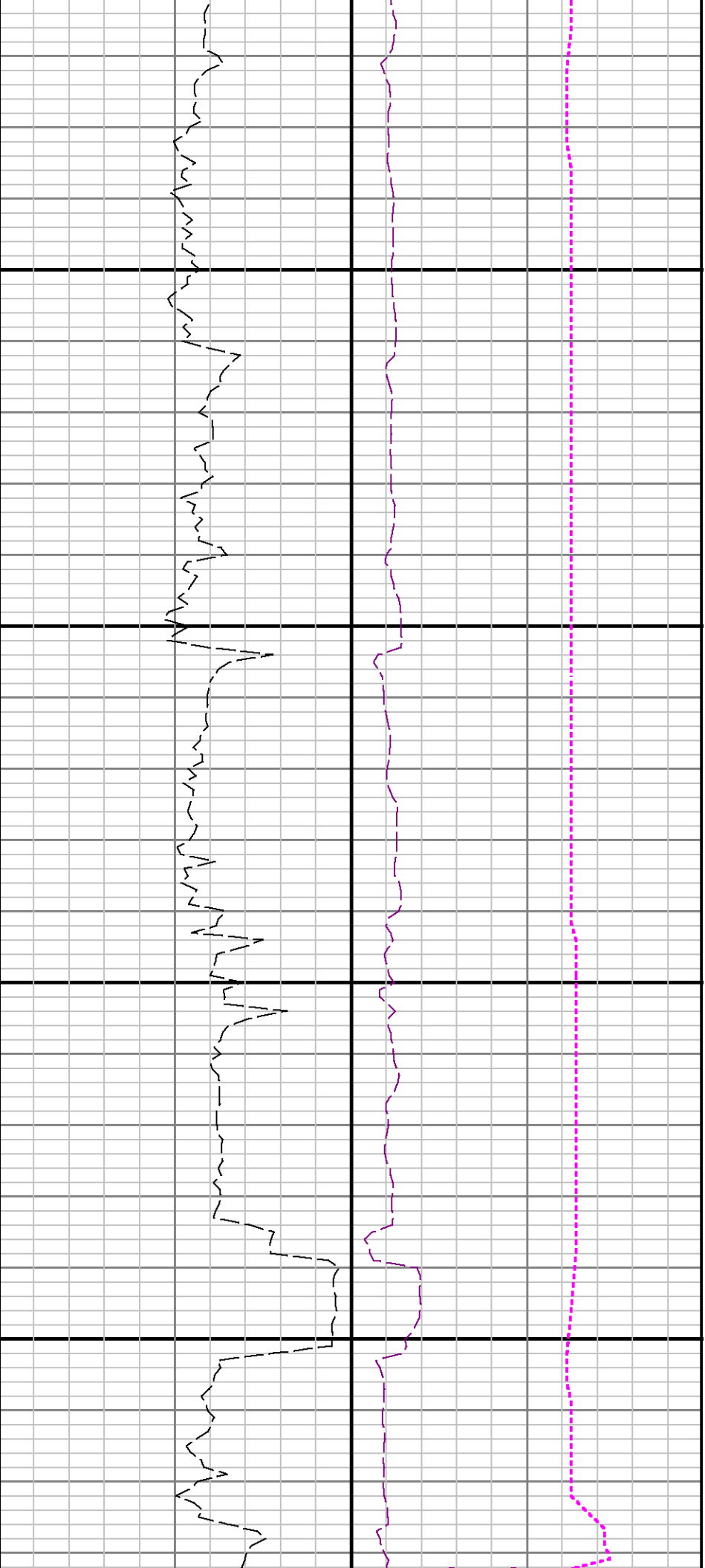
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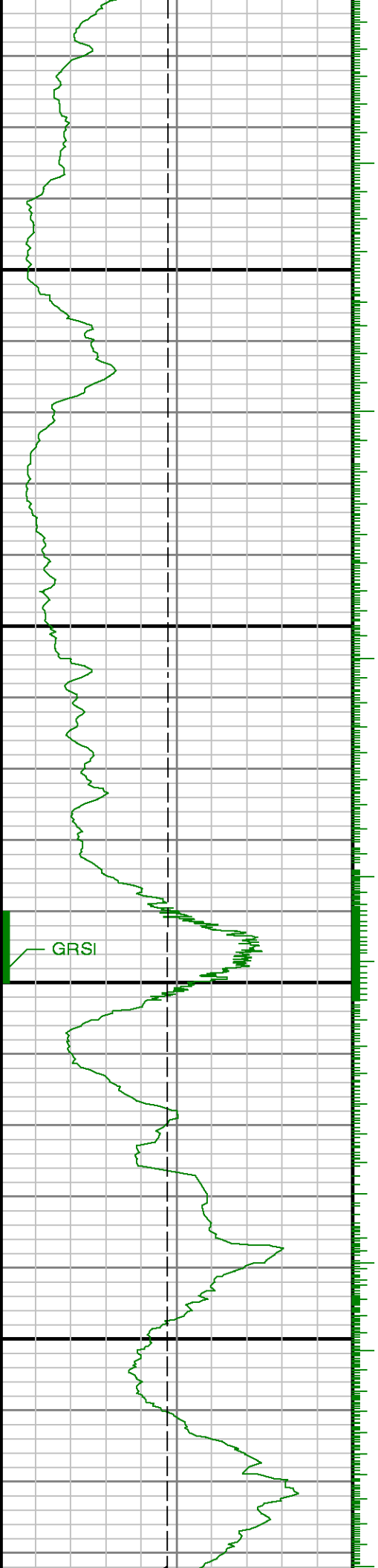
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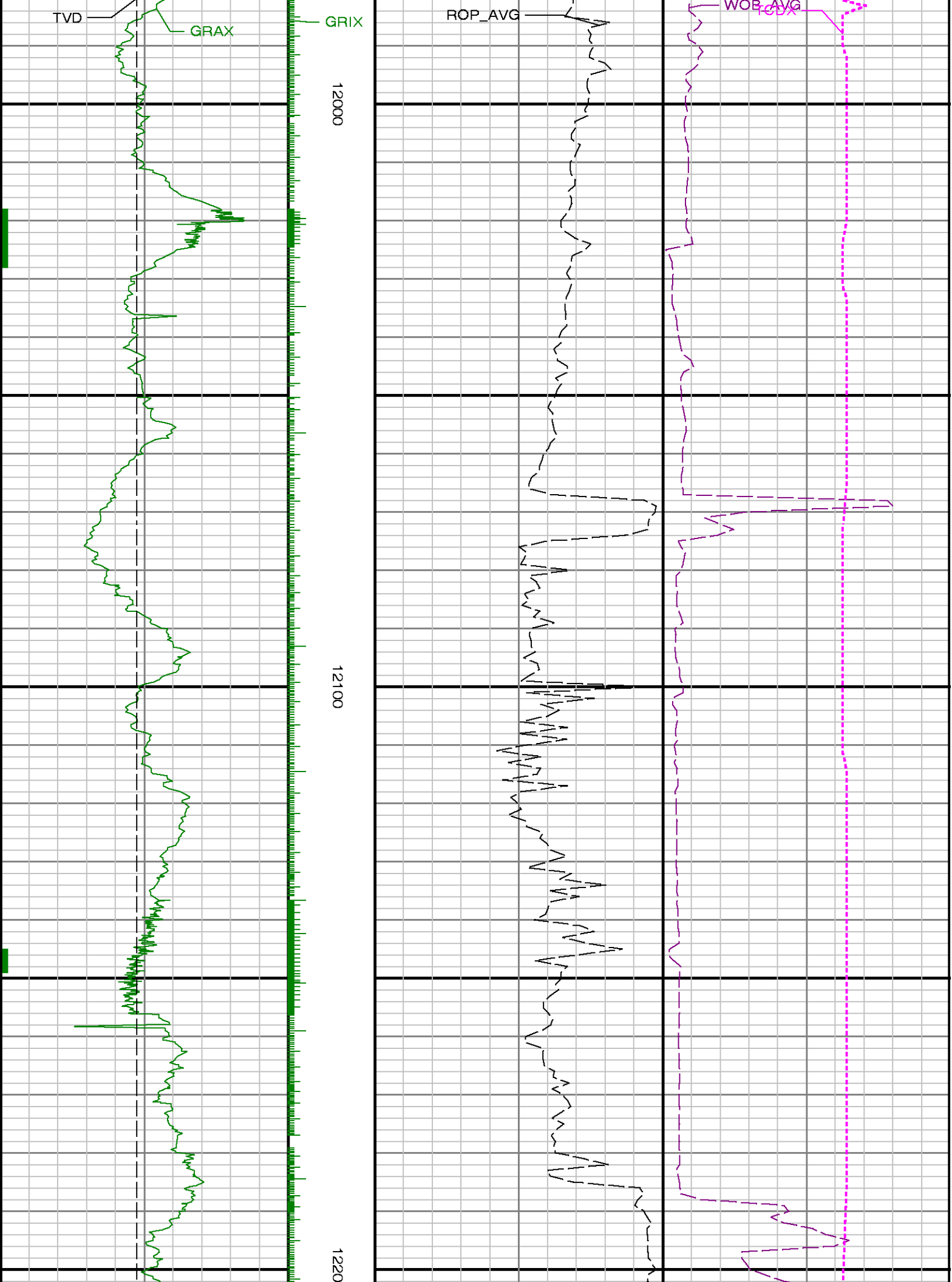


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11900



GRSI

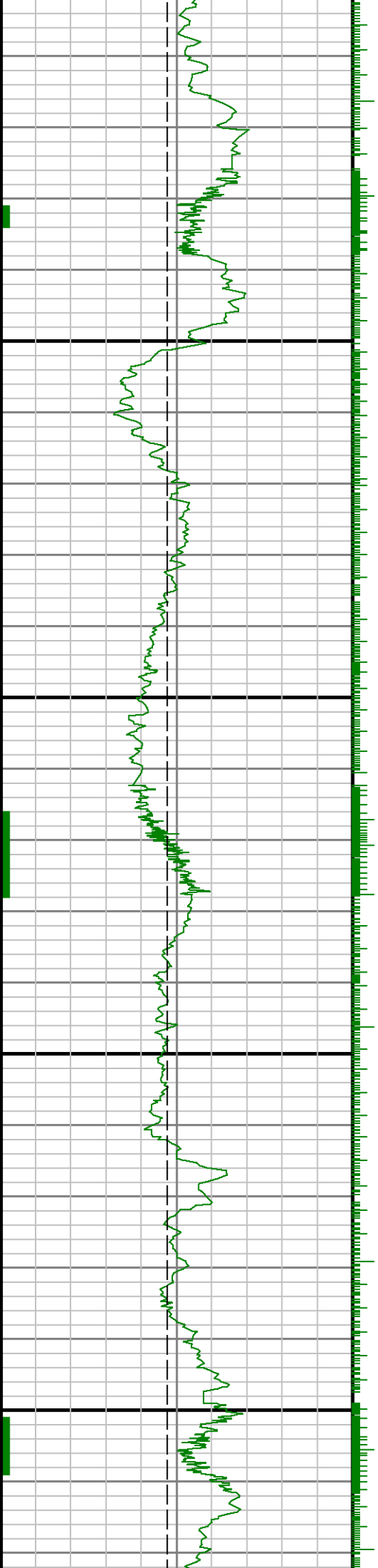




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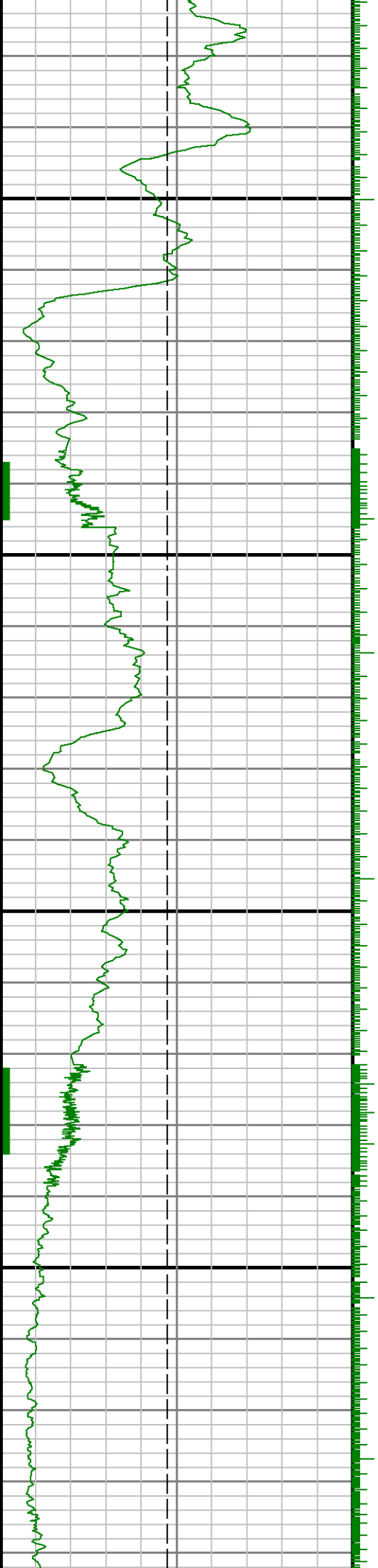
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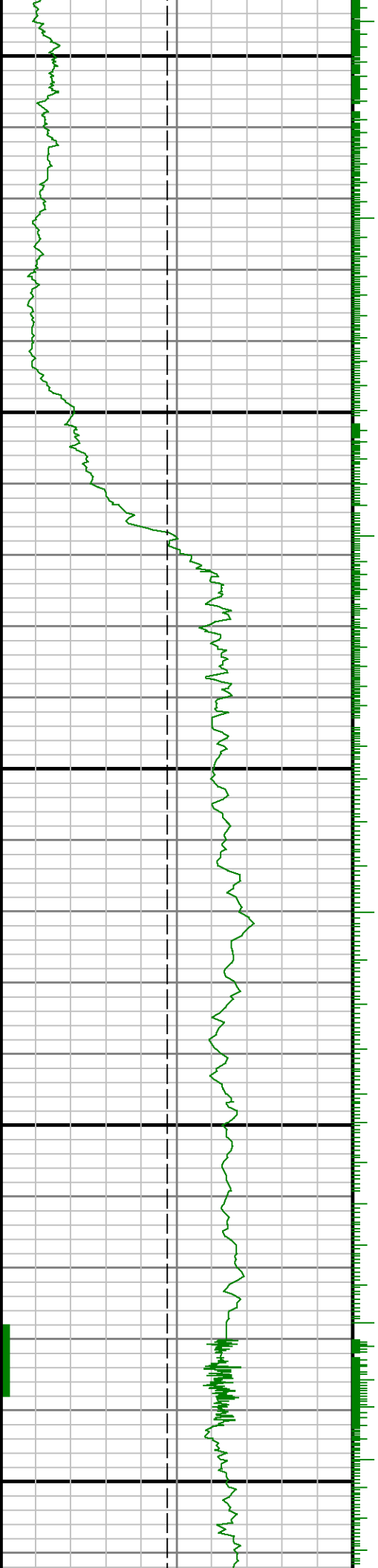
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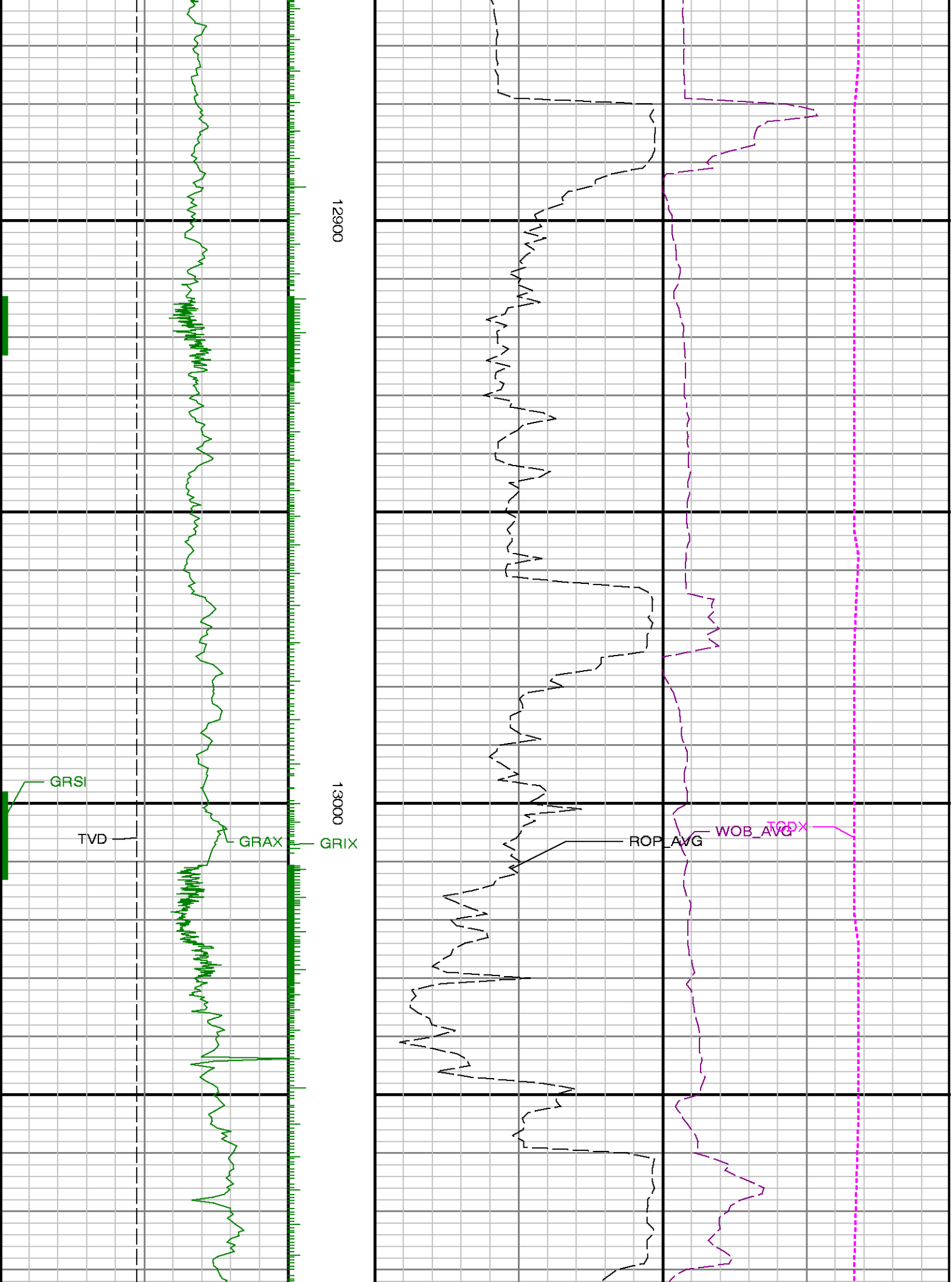




12700

12800



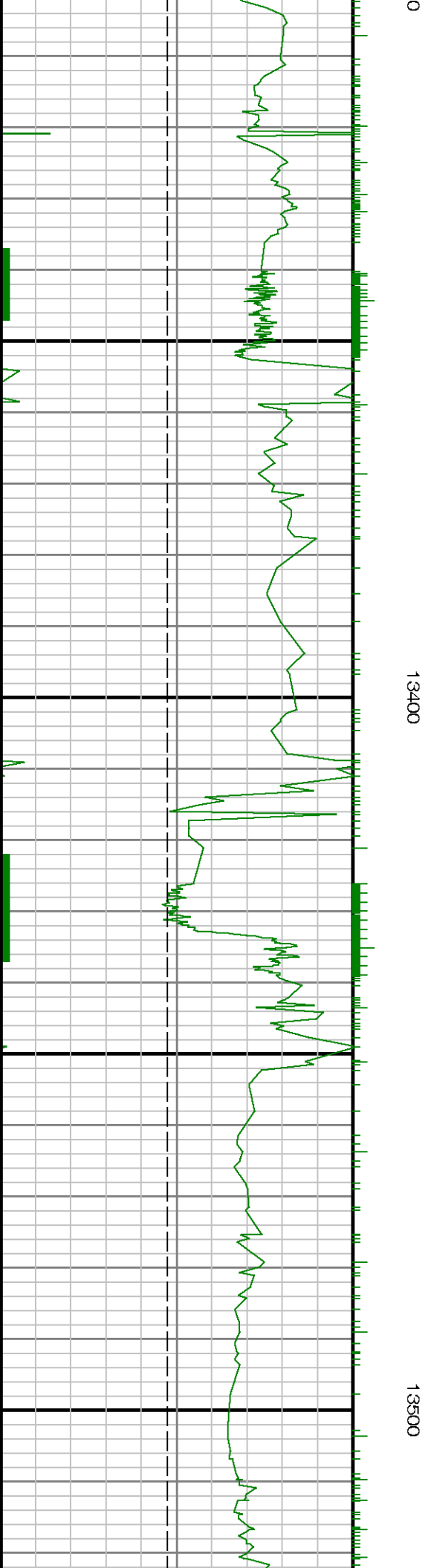
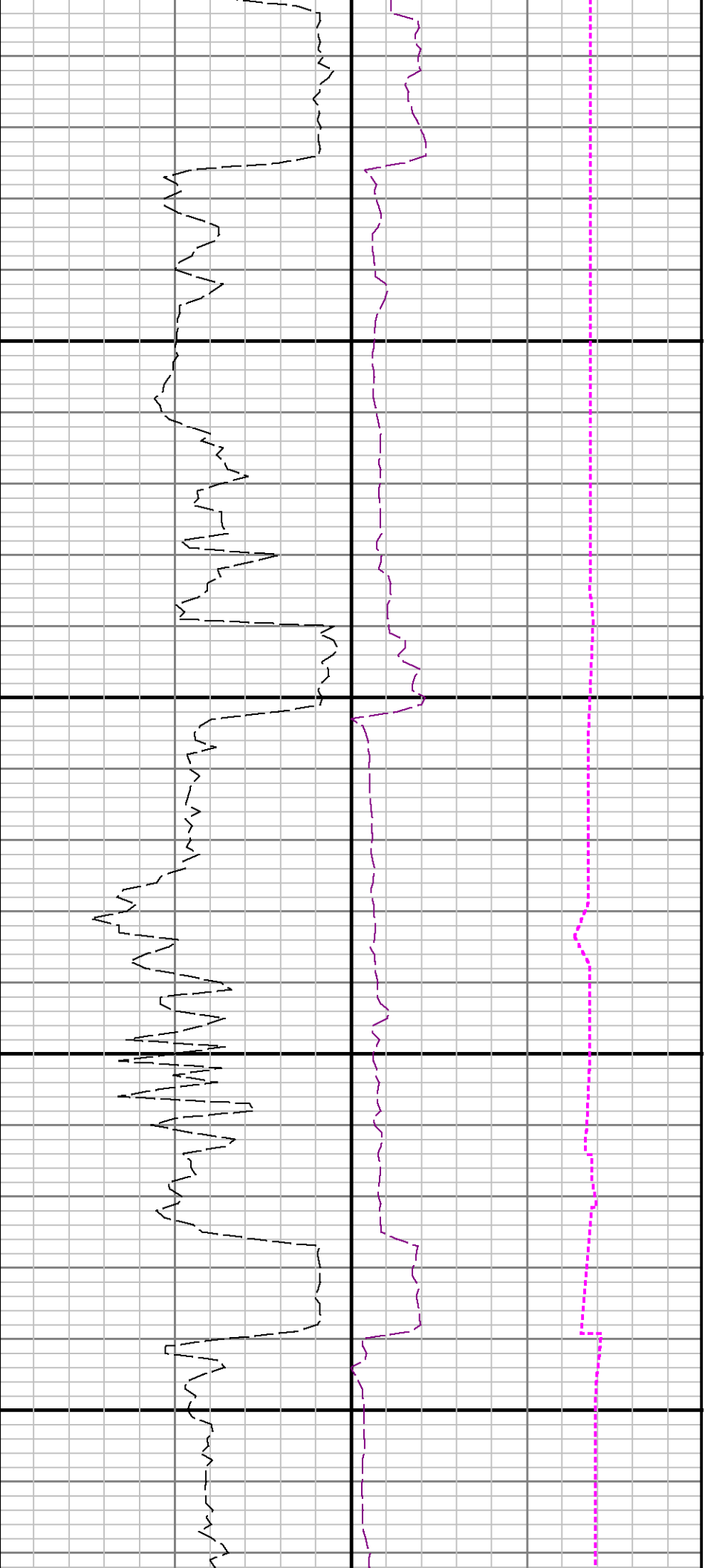


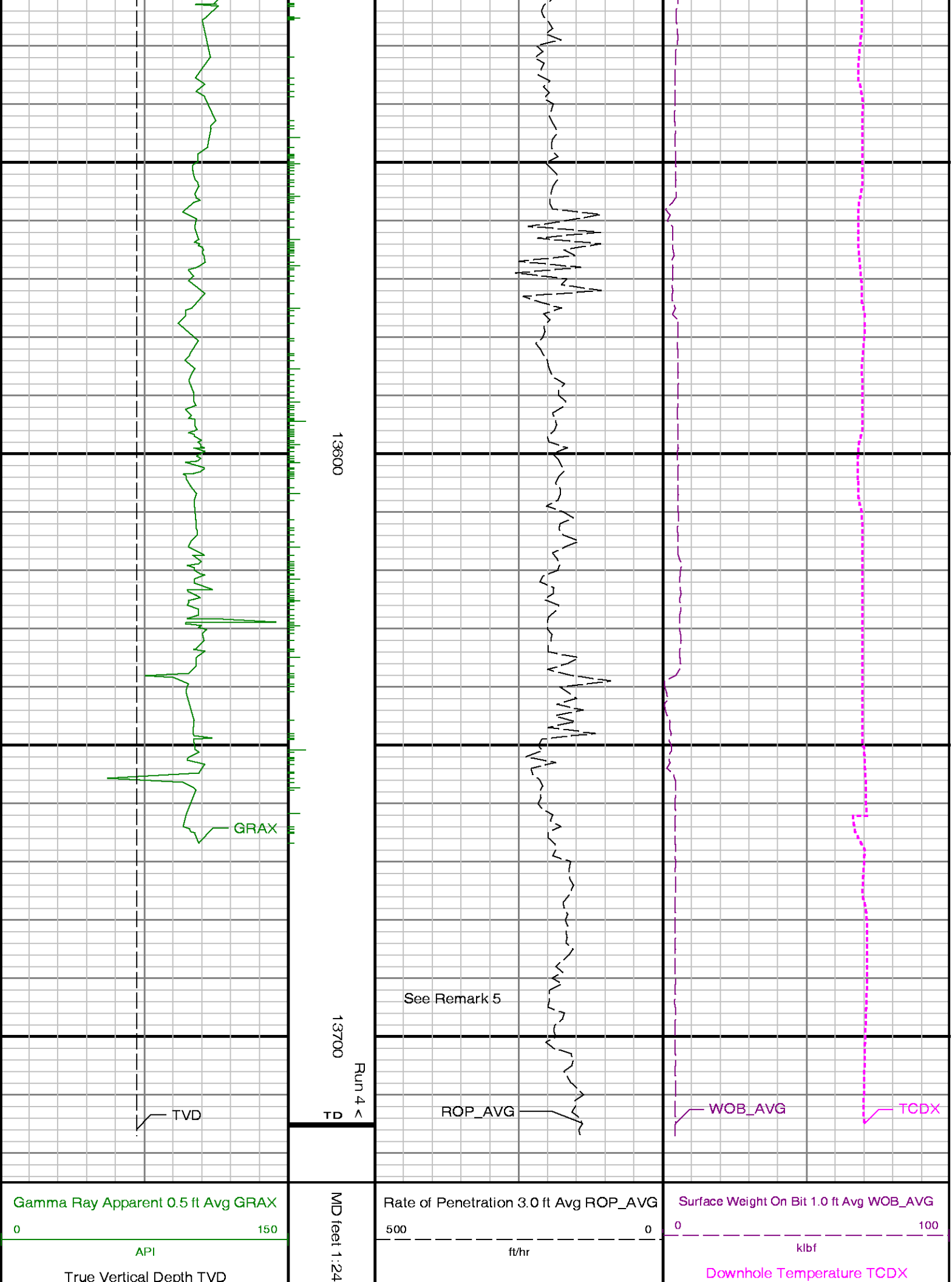


13100

13200

13300





5000	10400	0	100	300
ft			degF	