



Realtime Log

Natural Formation Evaluation  
Gamma Ray

Scale:

Company: Anadarko

Well: Goodin 37N-A6HZ

Field: Weld County (Kerr McGee)

Region: Continental US Country: United States

1:240

MEASURED DEPTH

Status: Surface Location: Other Services:

Final Print

Latitude: 40° 3' 35.446" N

Longitude: 104° 42' 9.058" W

API Number: 051234075100

Section: 7 TWN: 1S Range 65W

Directional  
VSS

Permanent Datum (P.D.): Mean Sea Level Elevation: 4979.00 ft.

Elevations: N/A

Log Measured From: Rig Floor 25.00 ft. Above P.D.

KB: 5004.00 ft.

Depth Reference: Driller's Depth

DF: 4979.00 ft.

GL:

Interval Logged Dates Magnetic Field Reference

Top: 6600 ft. Date From: 14/Mar/15 Dip Angle: 66.55° Azi Reference North: True

Bottom: 13355 ft. Date To: 20/Mar/15 Total Mag to Reference

Spud Date: 14/Mar/15 Field Strength: 52750.0 nT North Correction: 8.05°

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
8.750 in.	1596 ft.	7682 ft.	9.600 in.	36.00 lb/ft	Surface	1596 ft.
6.125 in.	7682 ft.	13355 ft.	7.000 in.	26.00 lb/ft	Surface	7672 ft.

Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Based	Surface	13355 ft.	8.750 in.	7682 ft.	0.8° / 259.0°	85.6° / 0.3°
			6.125 in.	13355 ft.	87.6° / 0.2°	89.9° / 4.5°
					/	/
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Acquisition System Software Version

Other

Advantage	2.20U4	Rig / Contractor: H&P 307	/ Helmerich & Payne Drilling Co
PAIS	6.4.1.34	Job No: 7134772	/ 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.
							Top	Bottom	From	To	Start		End		Time
							(m.)	(m.)	(m.)	(m.)					
1	1	1	8.750	PDC	3.500	Mud Motor	6600	7638	1596	7682	14/Mar/15	12:54	16/Mar/15	10:44	42.7
2	2	2	6.125	PDC	6.500	Mud Motor	7640	13300	7682	13355	18/Mar/15	09:49	19/Mar/15	03:21	37.3

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Andy King	03/14/15	03/20/15	Jake Miller	03/14/15	03/20/15	Mike Gurnsey	03/14/15	03/20/15
Bill Herbers	03/14/15	03/20/15						

Mud Properties Record

Date / Time	LWD	Measured	Mud	Density	Viscosity	pH	Fluid	Oil /	Source	Total	K+
	Run No.	Depth (m.)	Type	(sg)	(cp)		Loss (cc)	Water		Chlorides (ppm)	(%)
03/15/15 18:00	1	6977	Poly-Plus	10.0	52	9.3	0.0	2/90	Active Pit	2400	0.0
03/18/15 19:00	2	9210	Poly-Plus	9.4	45	9.5	4.0	3/90	Active Pit	2100	0.0

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. Avg.	API
GRTX	Gamma Ray Time Since Drilled	Min.
GRIX	Gamma Ray Density, Points	unitless
GRSI	Gamma Ray Slide Indicator	unitless
ROPA	Rate of Penetration, 3.0 ft. Avg.	Ft./Hr.
TCDX	Downhole Temperature	Deg. F.
TVD	True Vertical Depth	Ft.
WOBA	Surface Weight on Bit, 1.0 ft. Avg.	K. lbs.

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (m.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	12592552	Directional	46.60	6.750	3.250
1	SRIG	12600945	Gamma	43.23	6.750	3.250
2	DIR	11941434	Directional	52.82	4.750	2.750
2	SRIG	12613300	Gamma	49.57	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 LWD Run 1 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 3/4 inch bit and steerable assembly from 1596 to 7682 ft MD (1596 to 7210 ft TVD).
(2) Baker Hughes LWD Run 2 utilized 4 3/4 inch NaviGamma services (Gamma Ray and Directional) behind a 6 1/8 inch bit and steerable assembly from 7682 to 13355 ft MD (7210 to 7236 ft TVD).
(3) Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
(4) A sliding indicator is shown on the left edge of track 1 as a heavy line. This indicator has been depth-shifted to the Gamma Ray sensor offset to correspond with Gamma Ray data acquired while sliding.

Remarks

Number	Measured Depth	Hole Section	LWD Run No.	Remark
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	(m.)	(in.)		
1	6600	8.750	1	Began logging Gamma above Build Section at 6600 ft MD (6476 ft TVD).
2	7660	6.125	2	The interval from 7638 to 7682 ft MD (7207 to 7210 ft TVD) was logged up to 47 hours after being drilled due to a trip out of hole for casing and cement operations and to pick up Lateral BHA.
3	13315	6.125	2	The interval from 13300 to 13355 ft MD (7235 to 7236 ft TVD) contains no logging data due to sensor offset from the bit at TD.

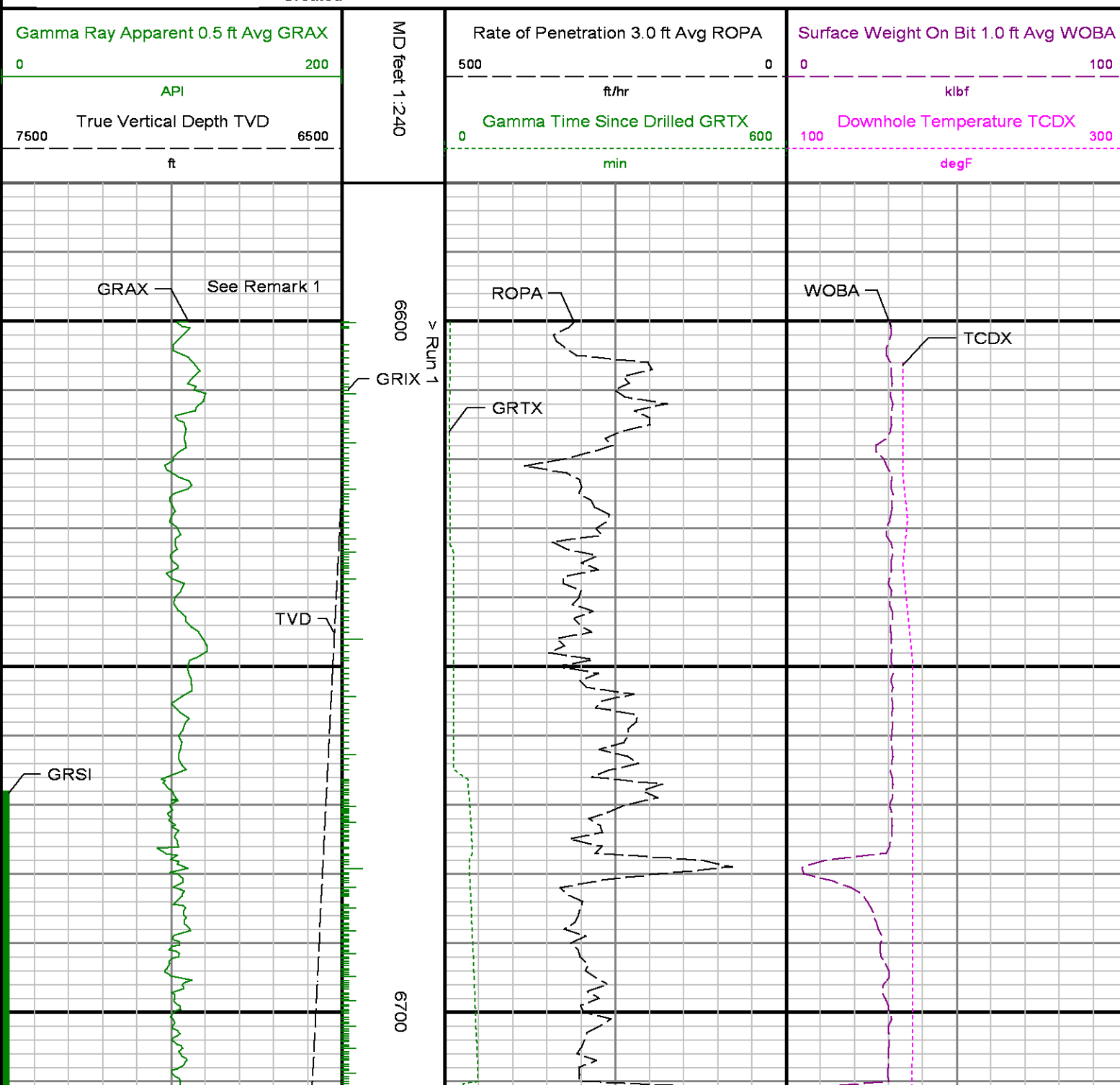


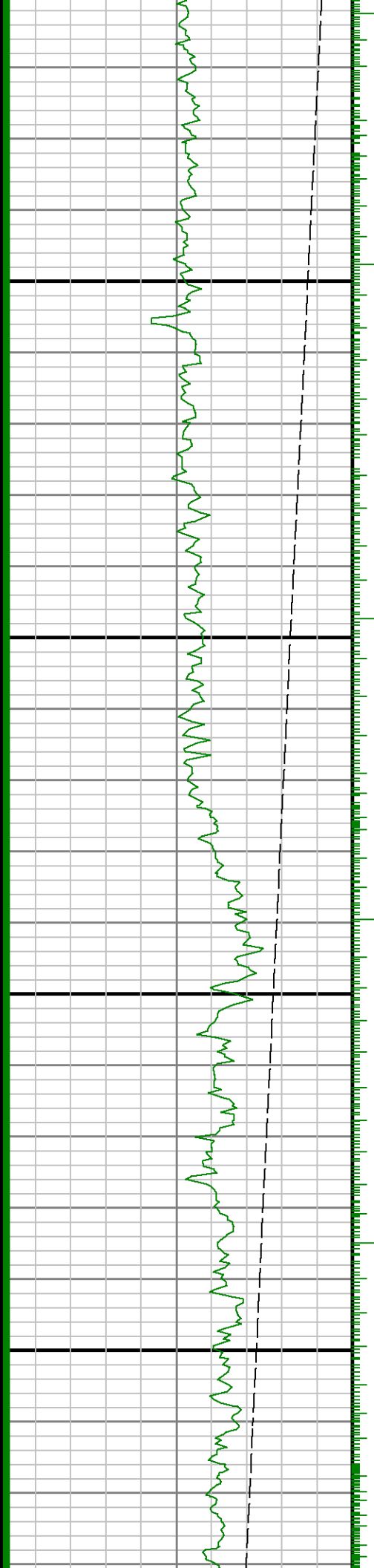
Company : Anadarko

Well : Goodin 37N-A6HZ

Interval : 6580.00 - 13370.00 feet

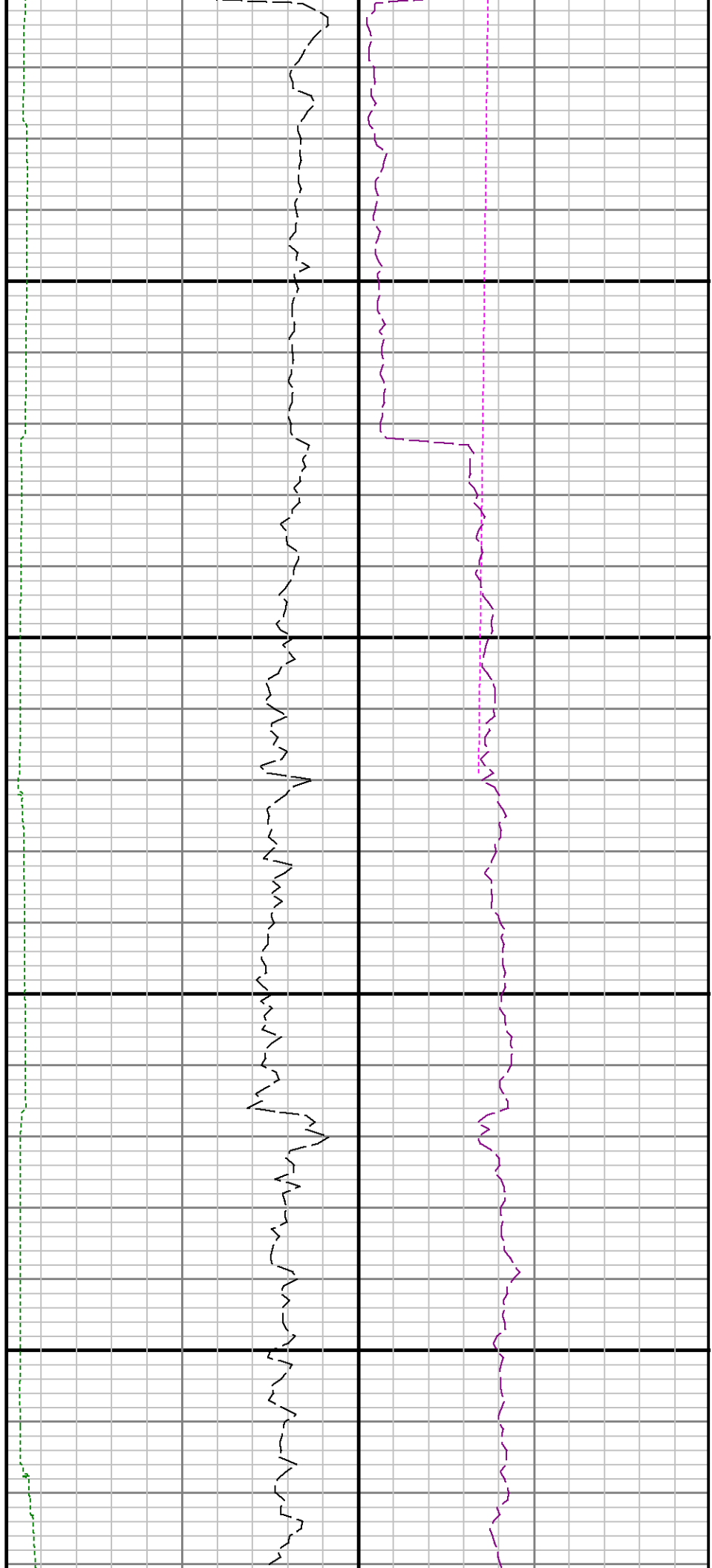
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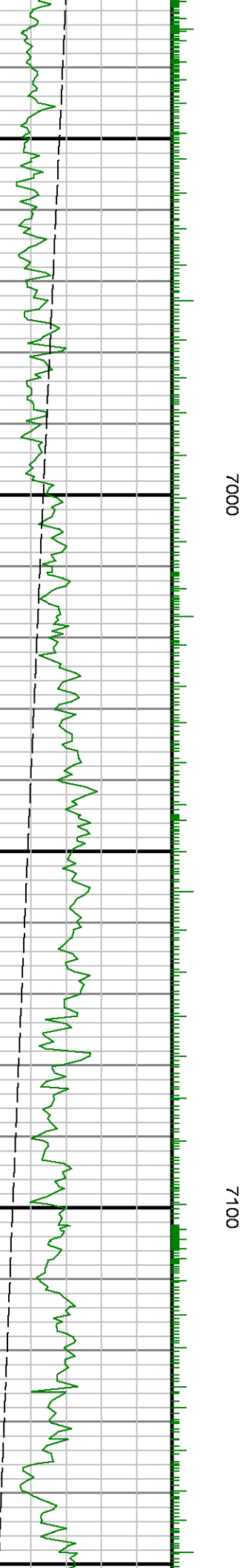
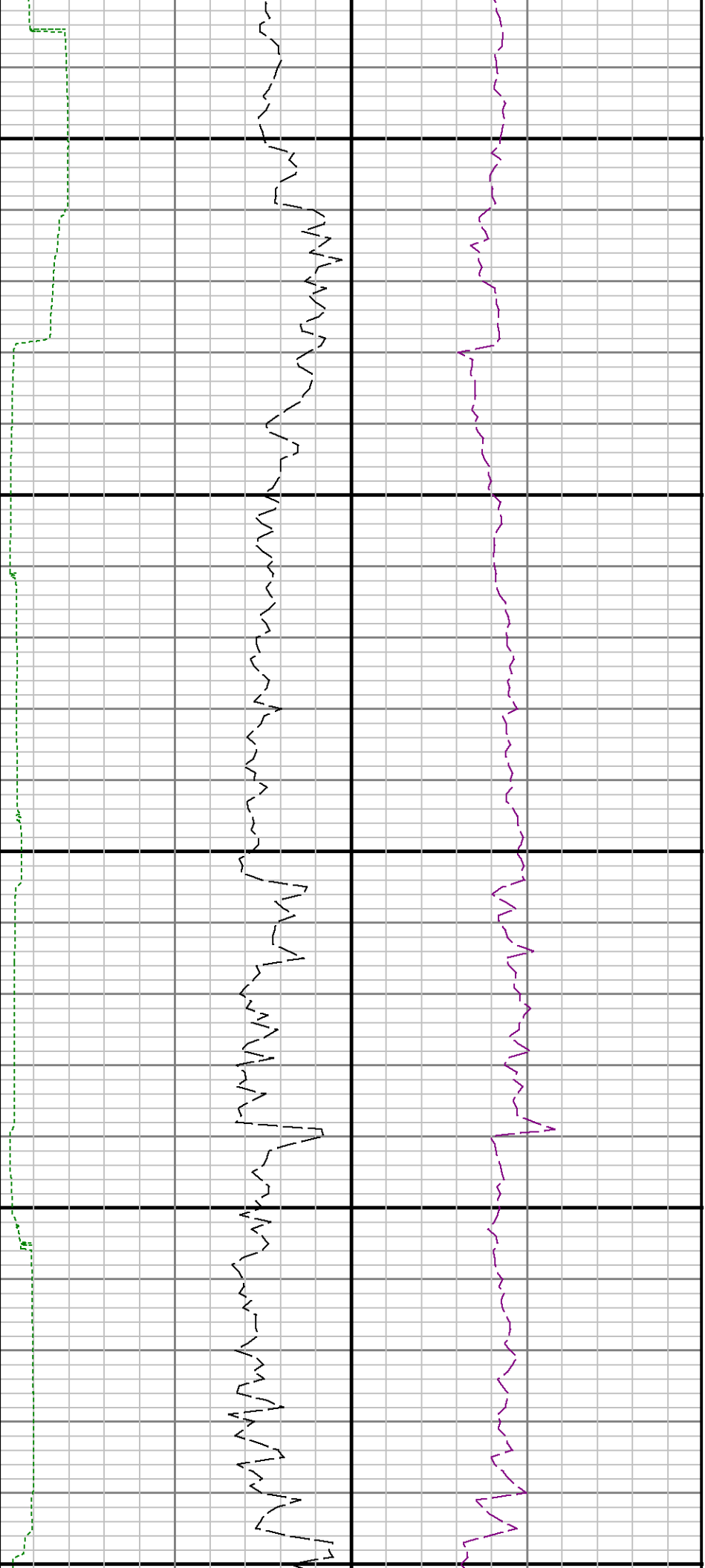


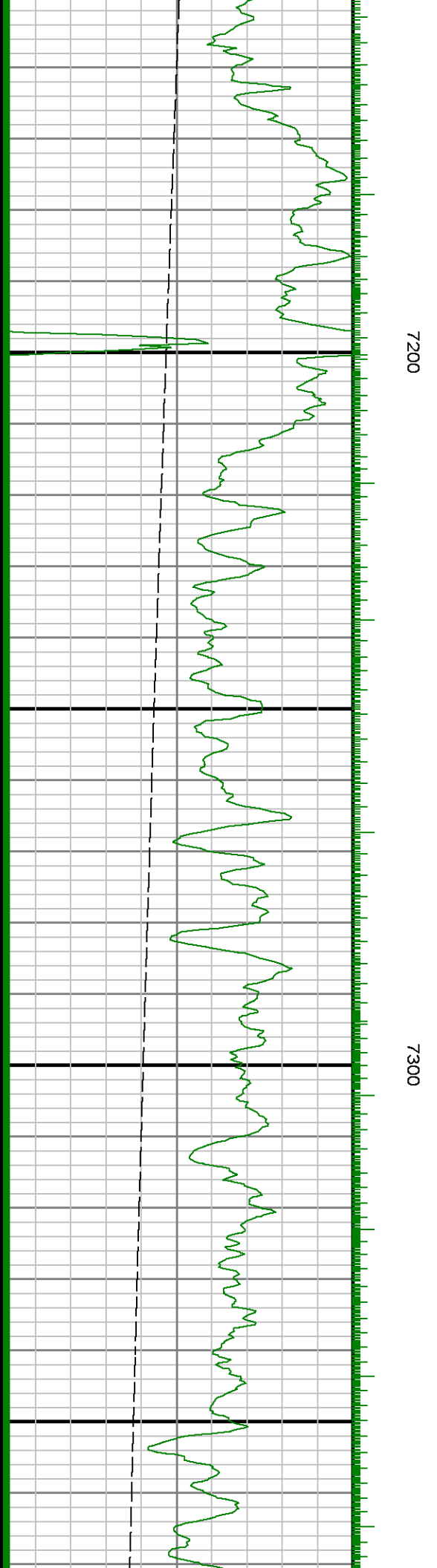
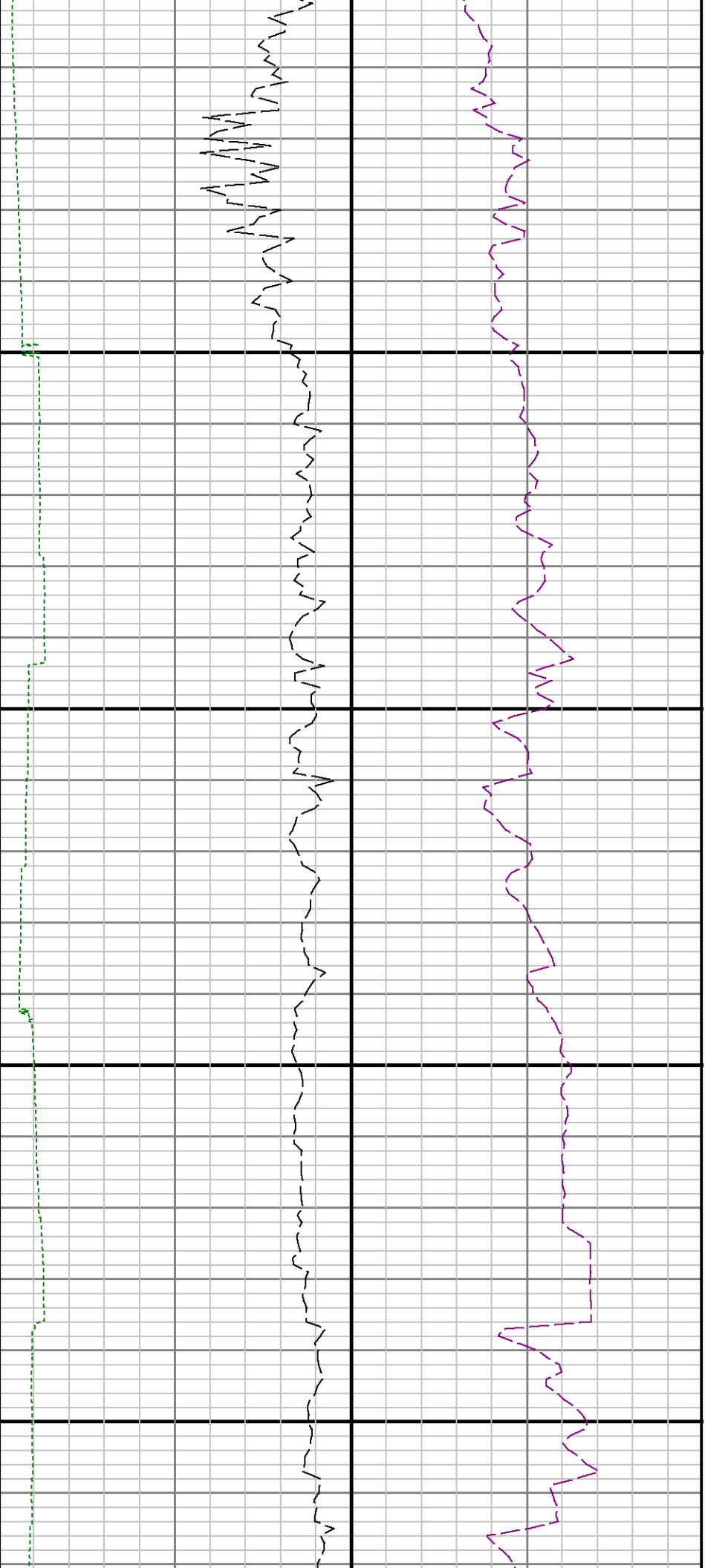


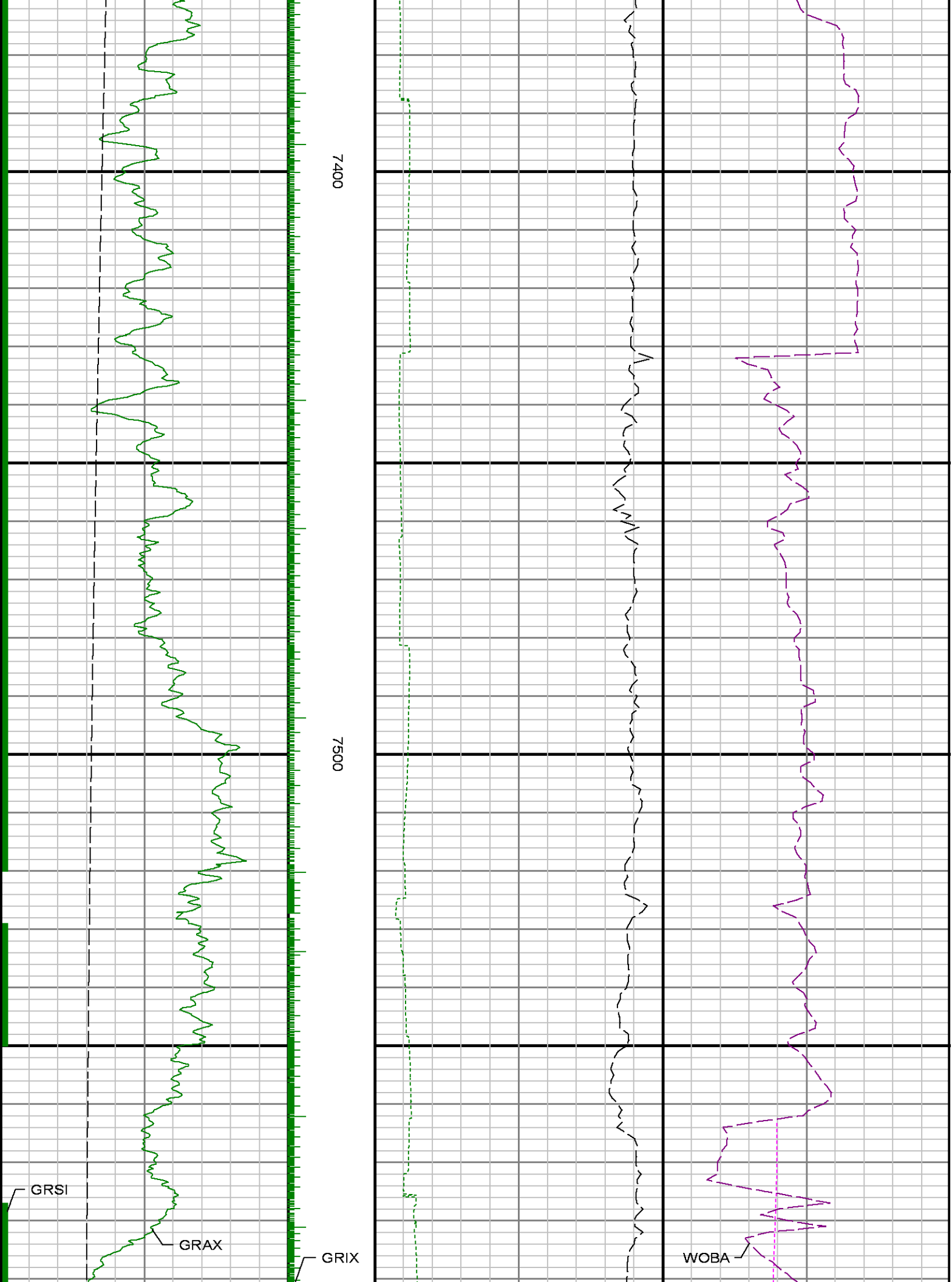
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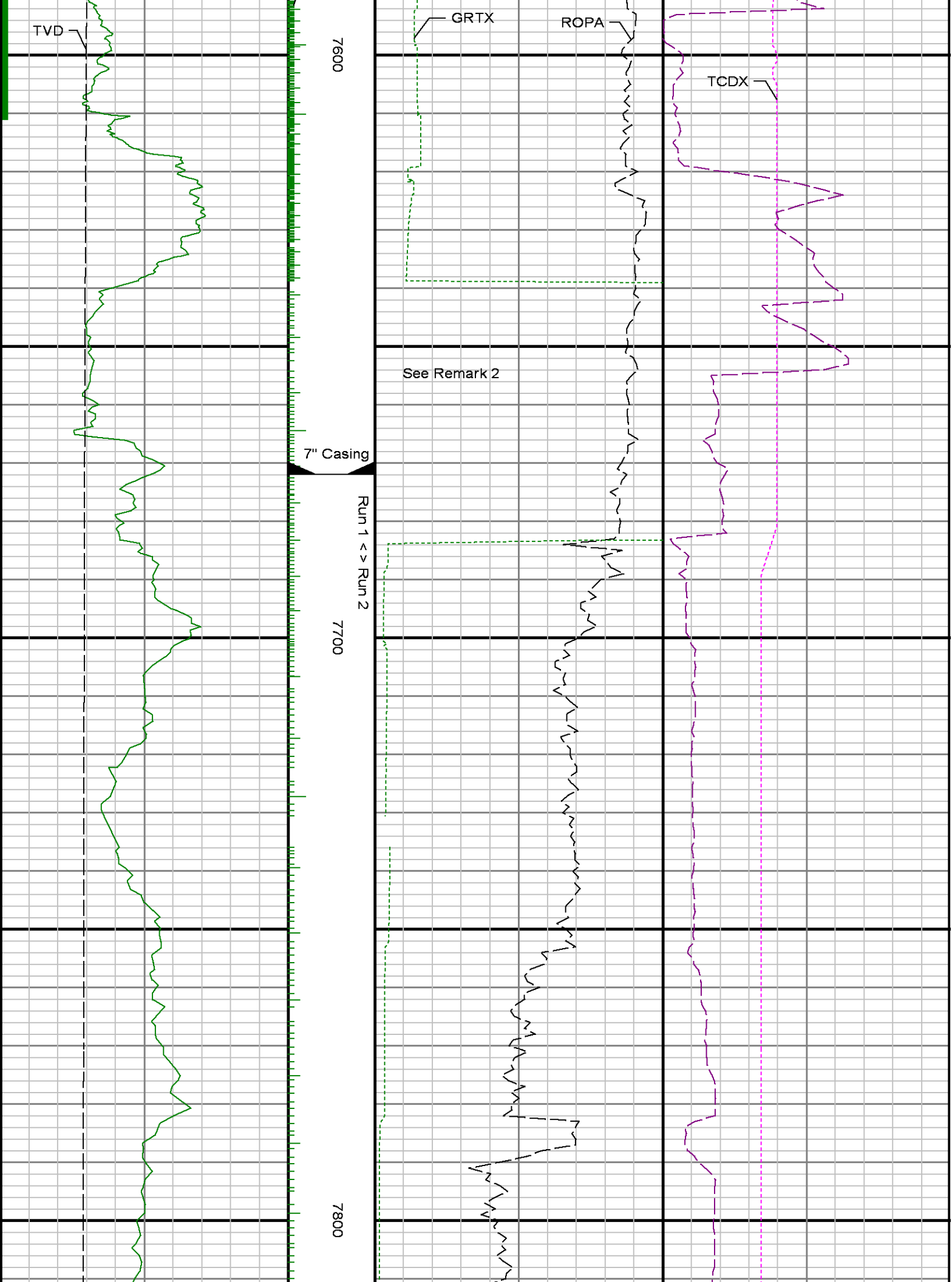
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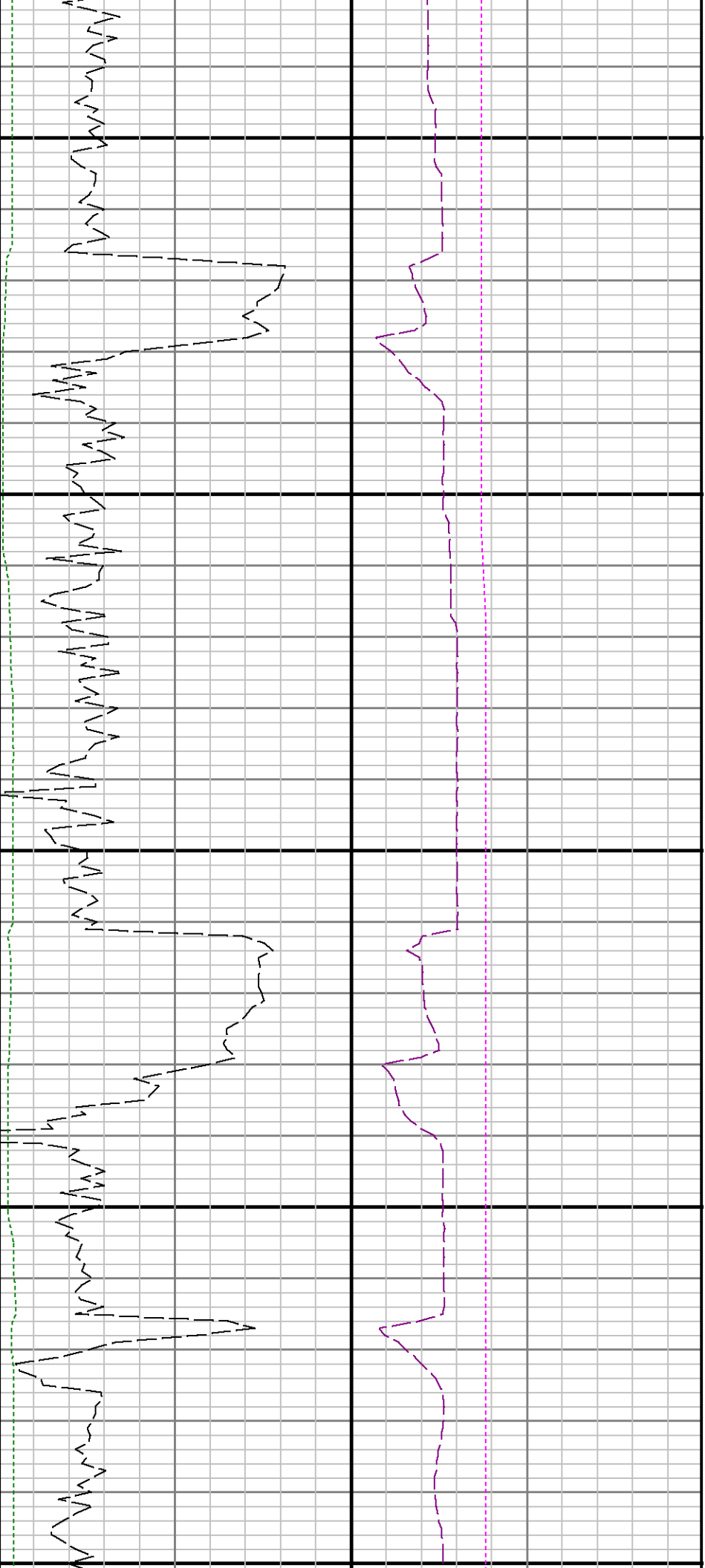






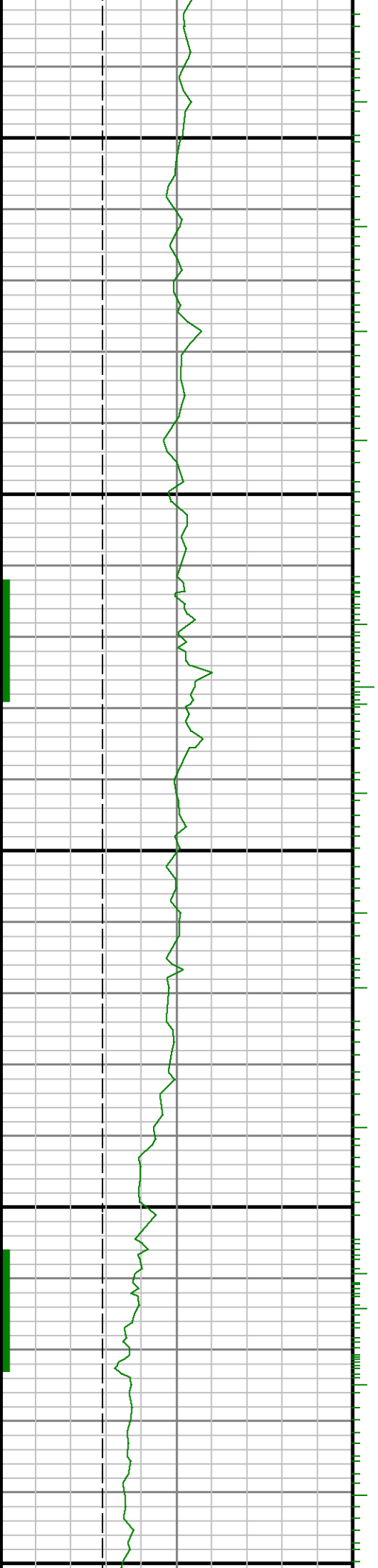


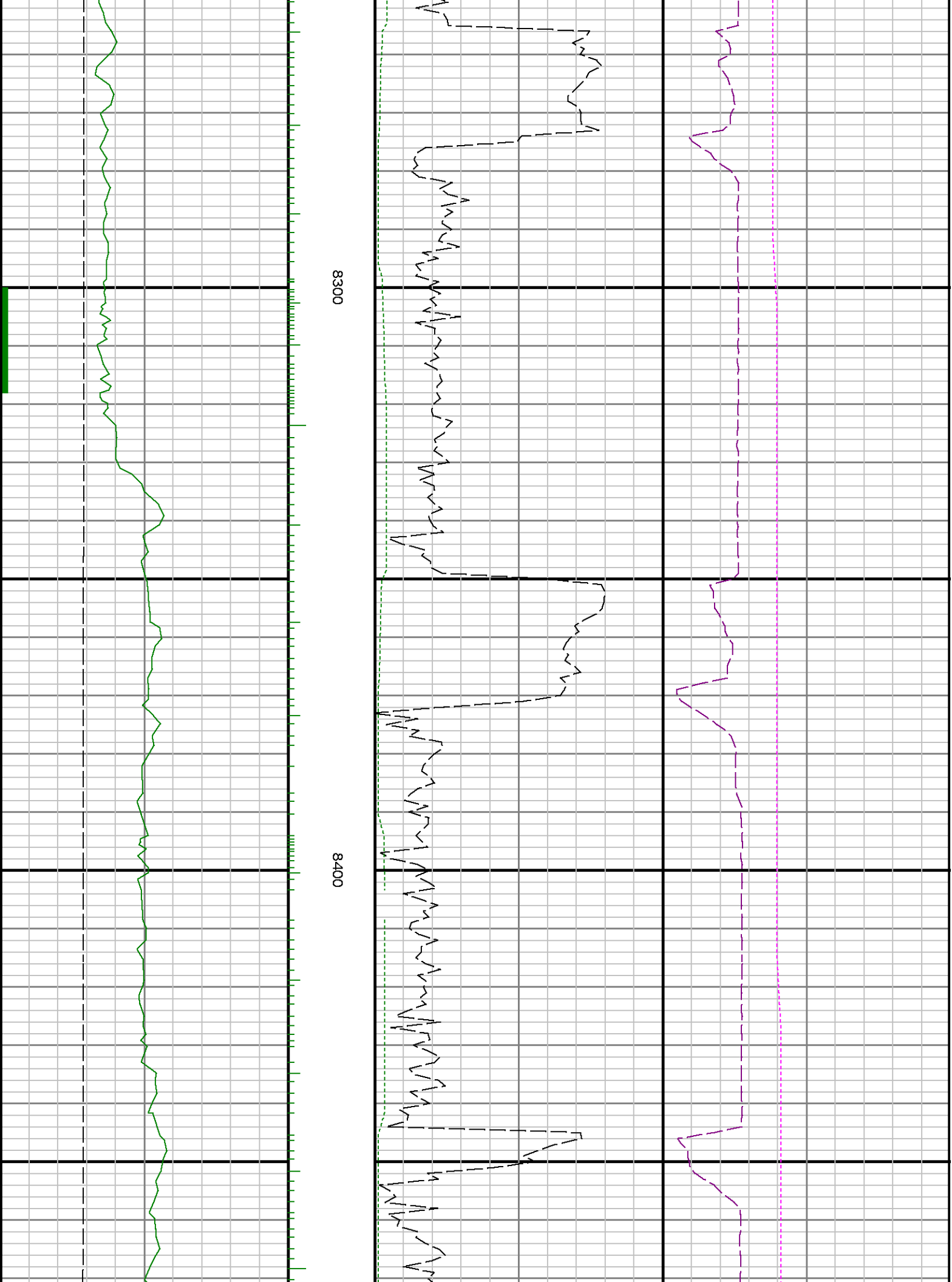


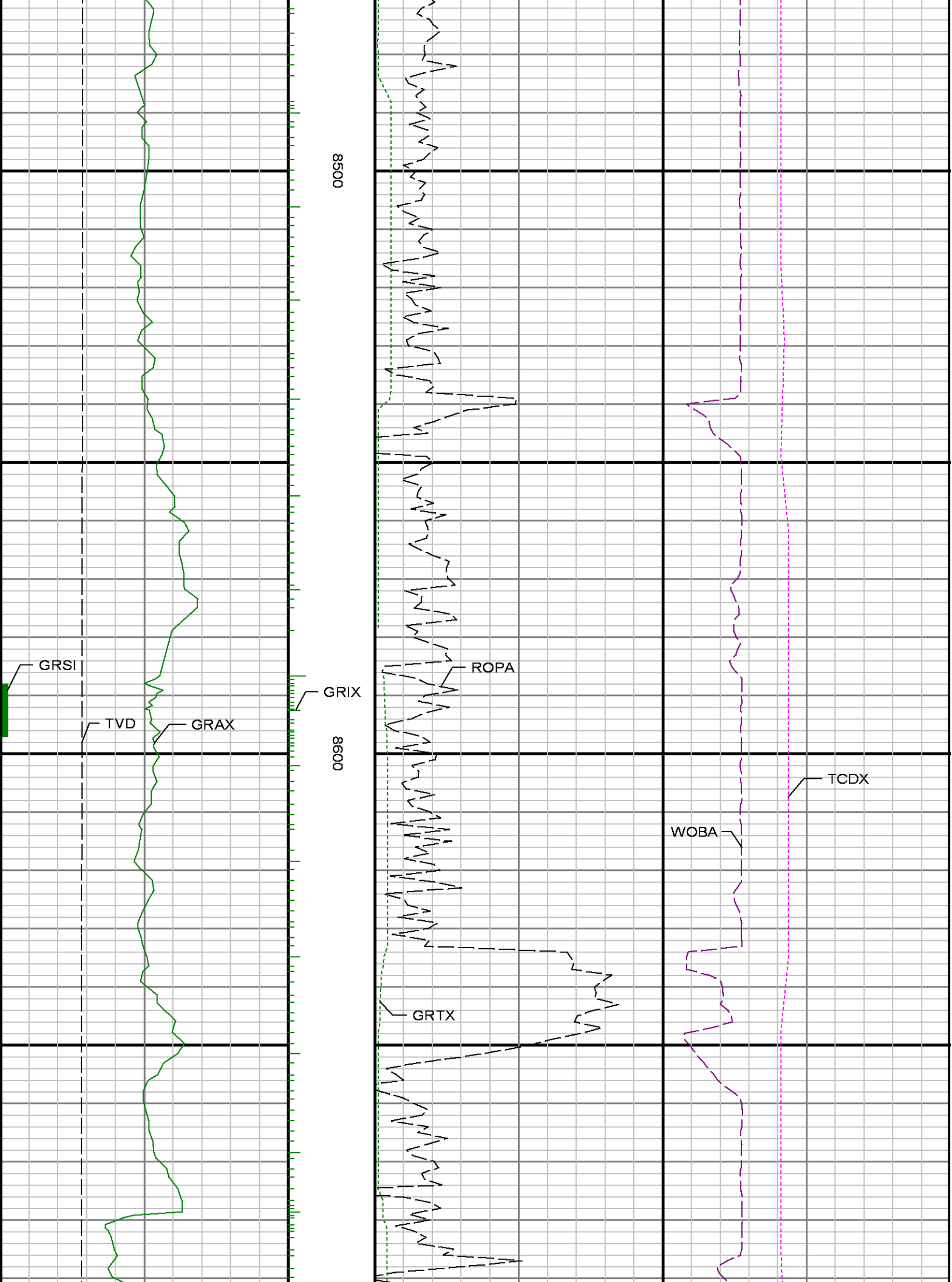


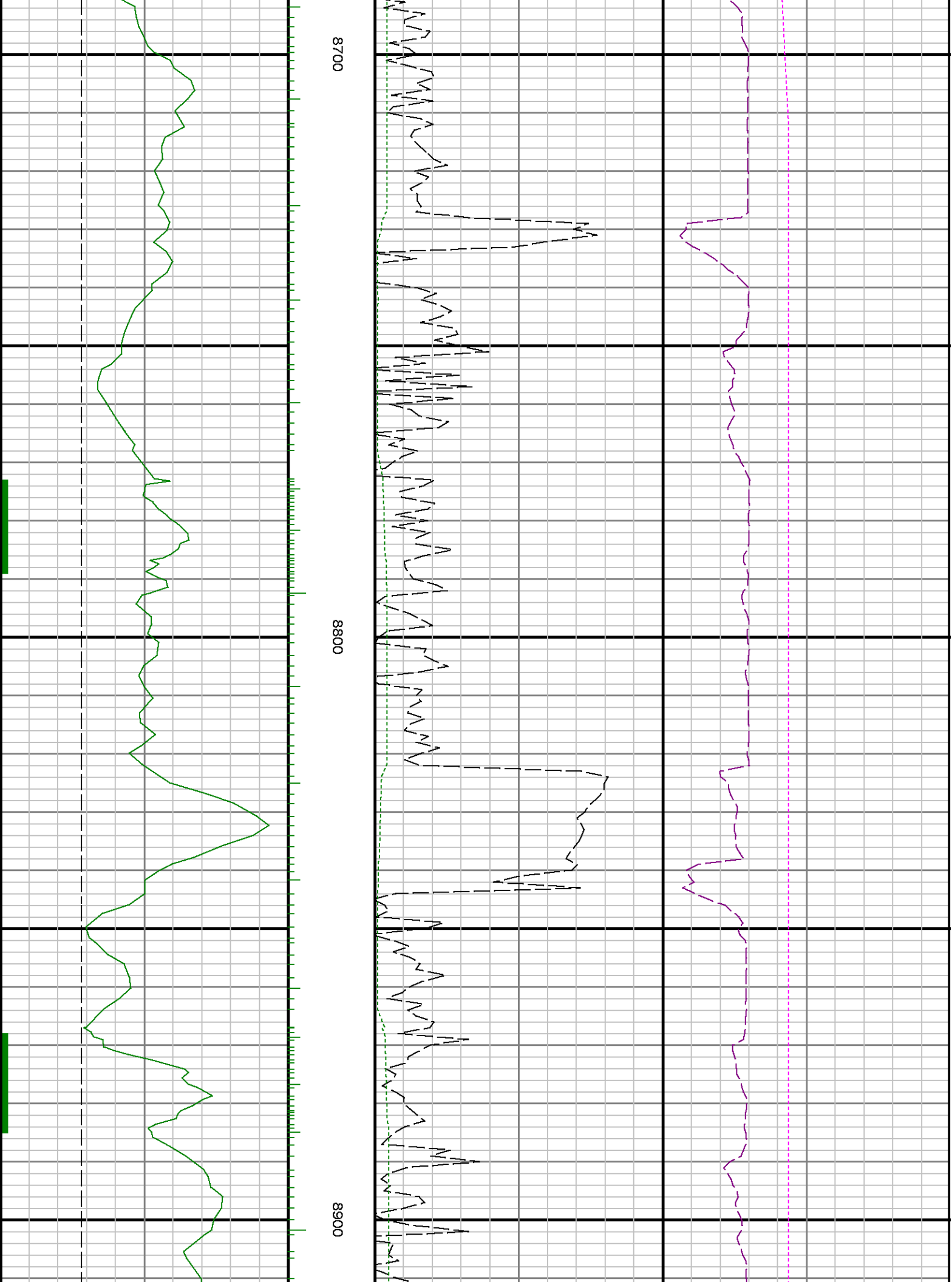
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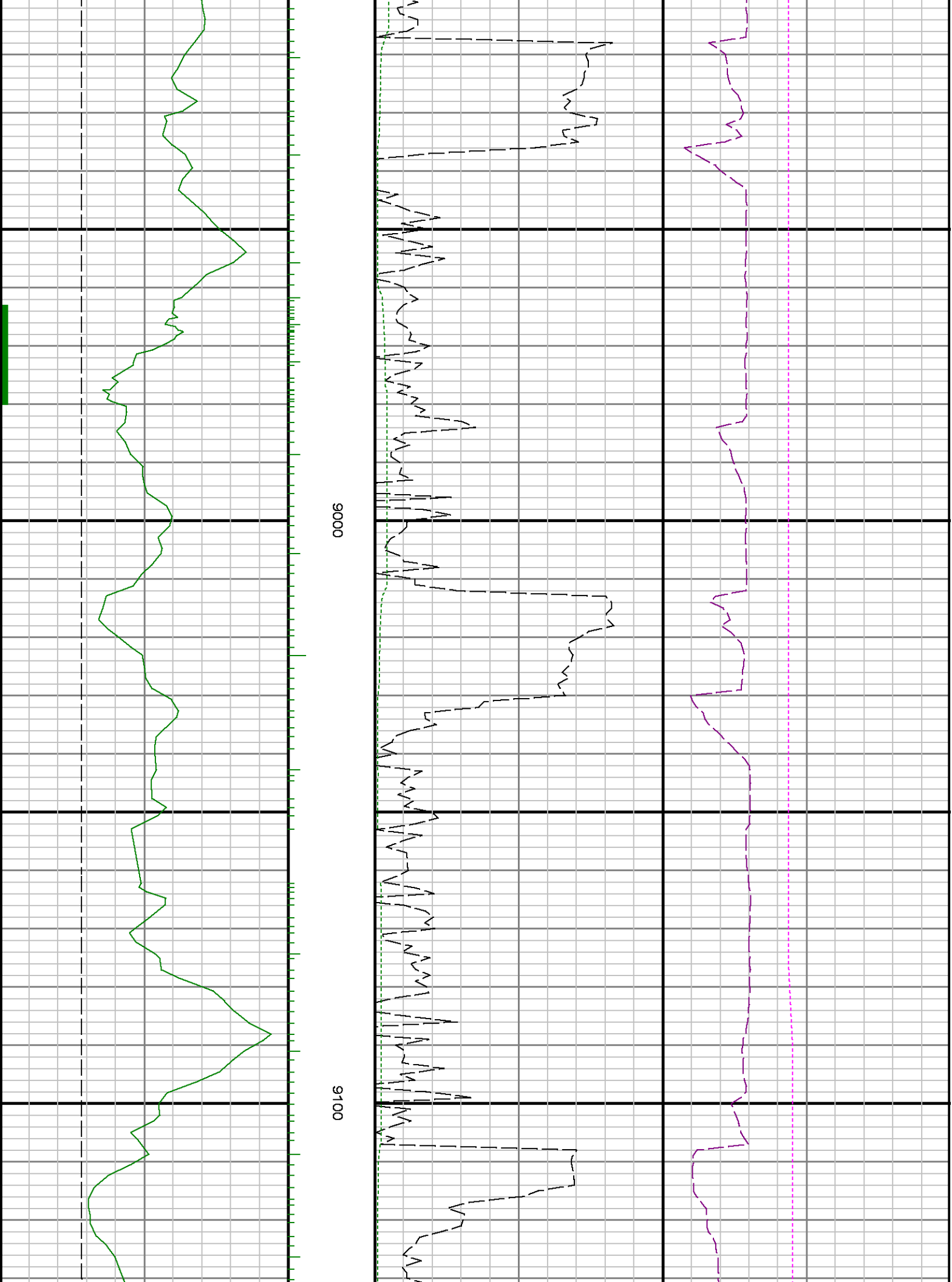
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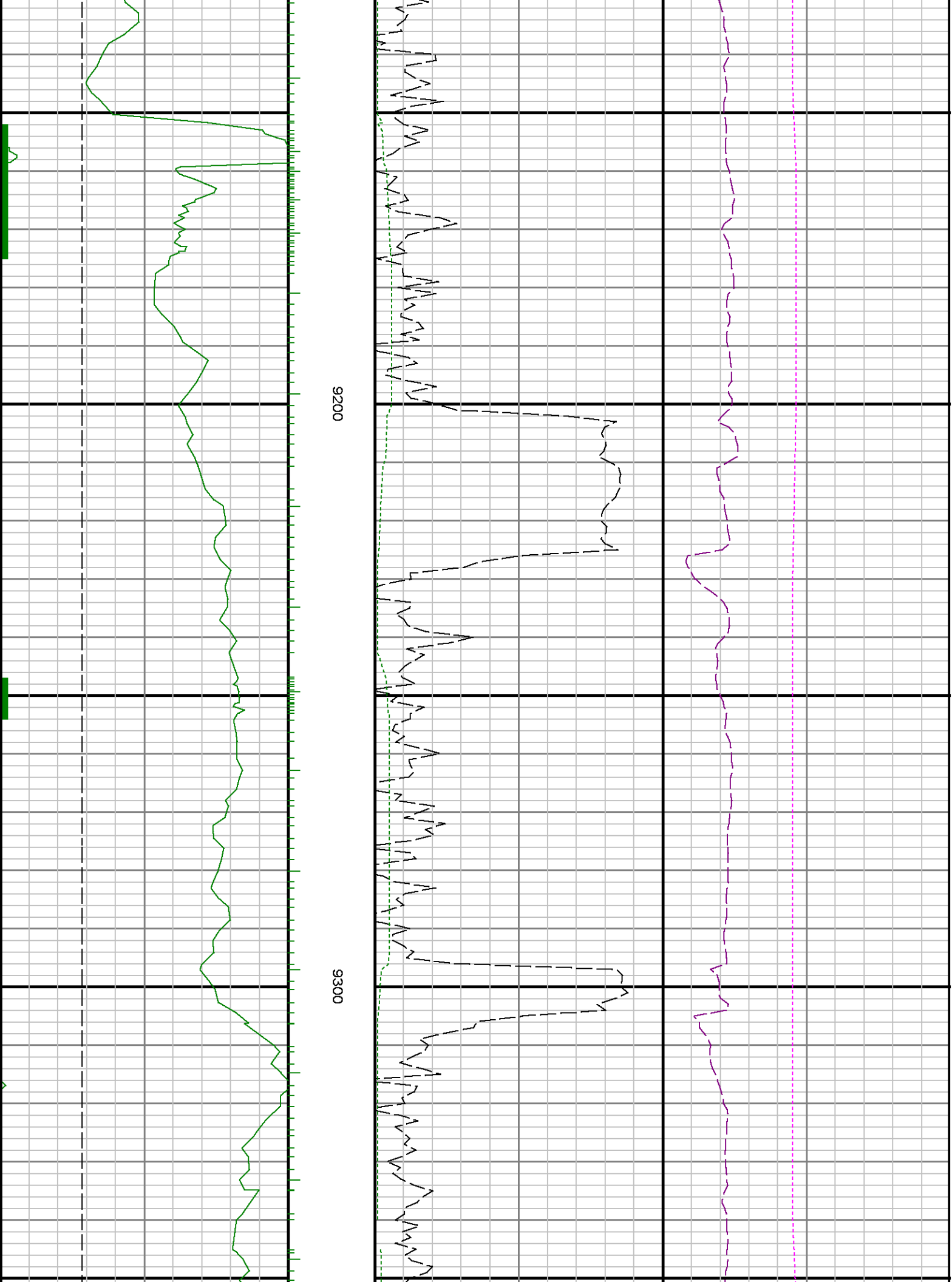


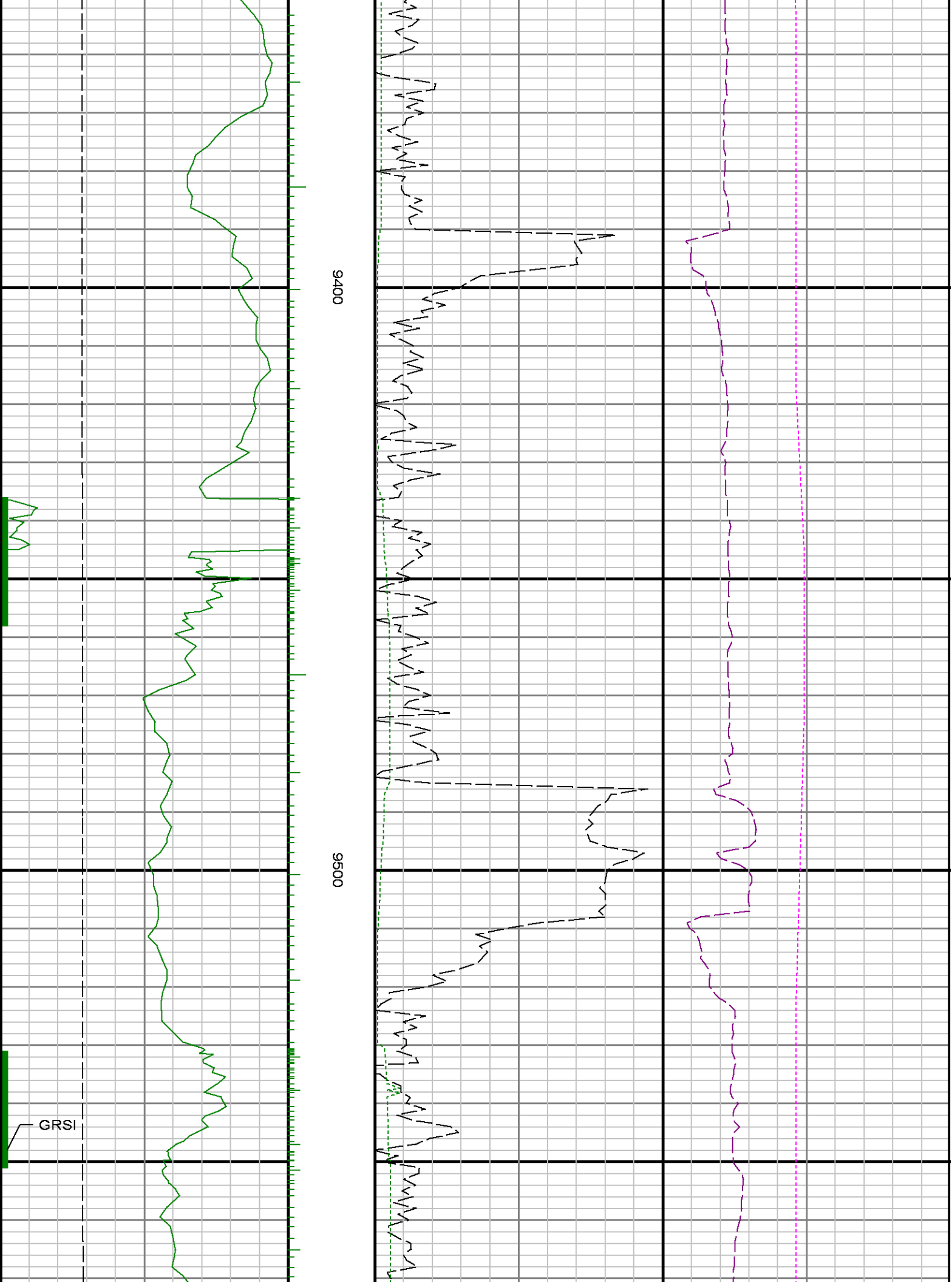




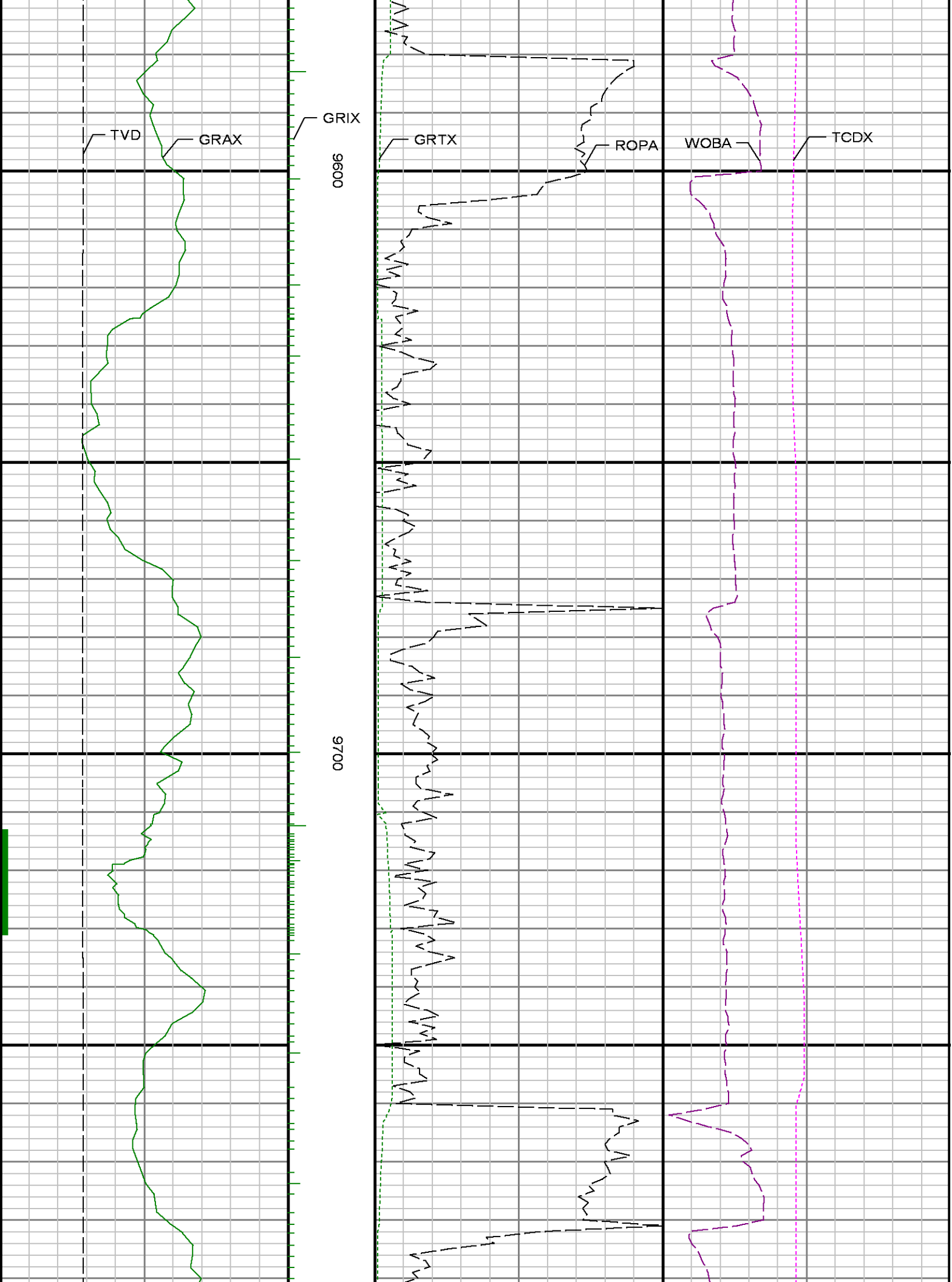


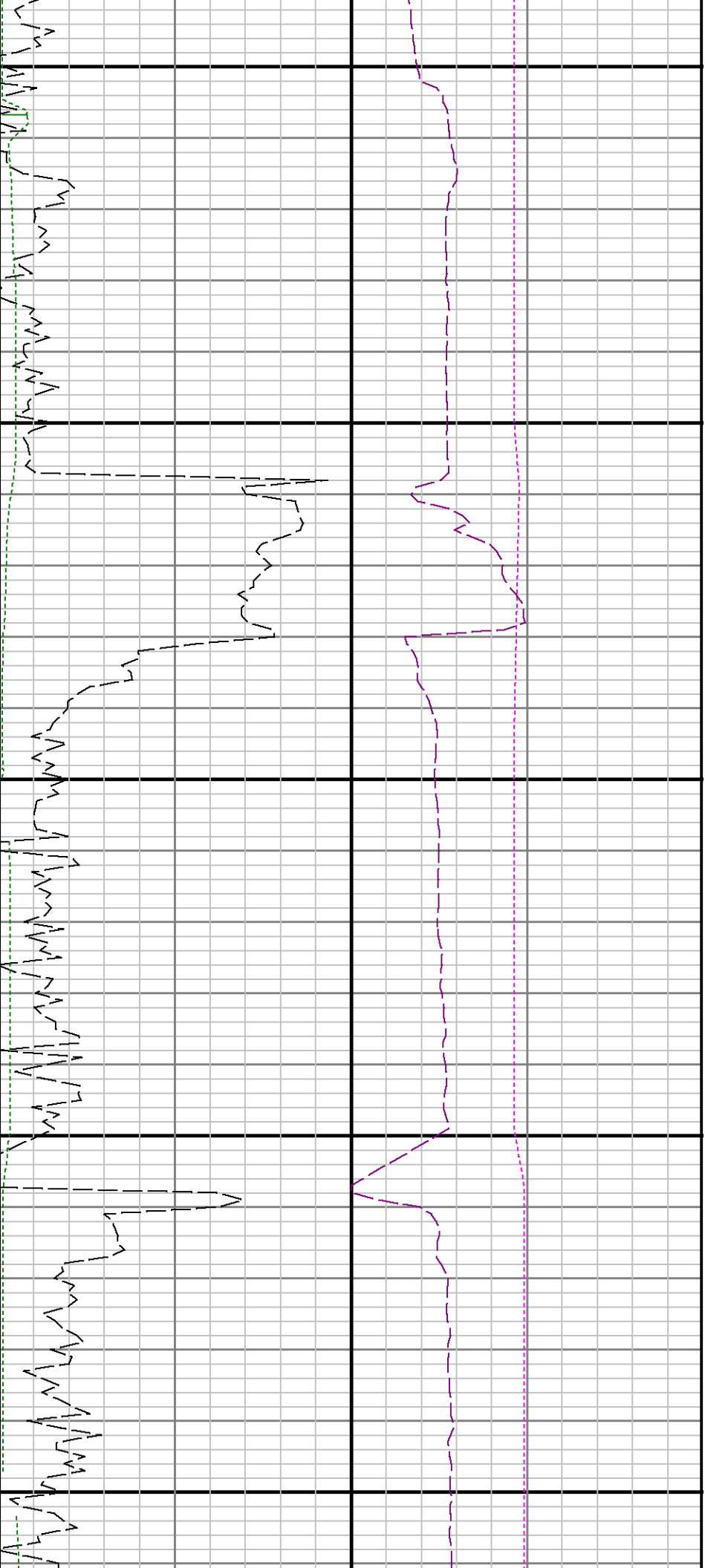








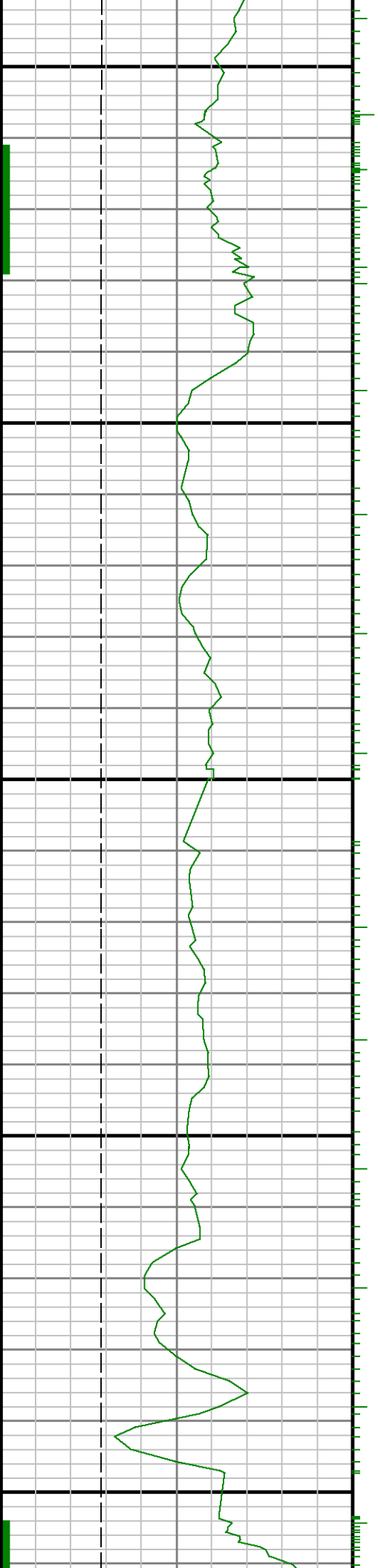


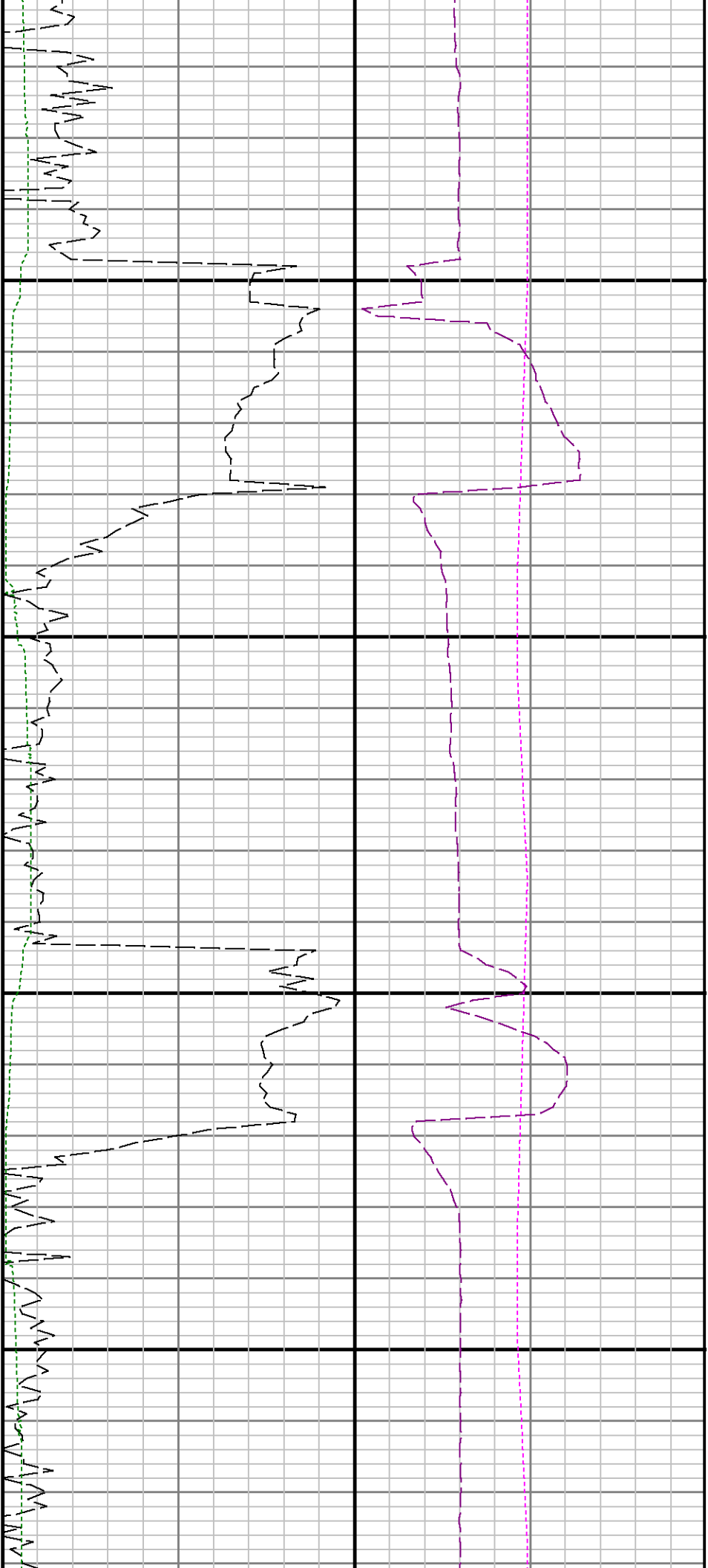


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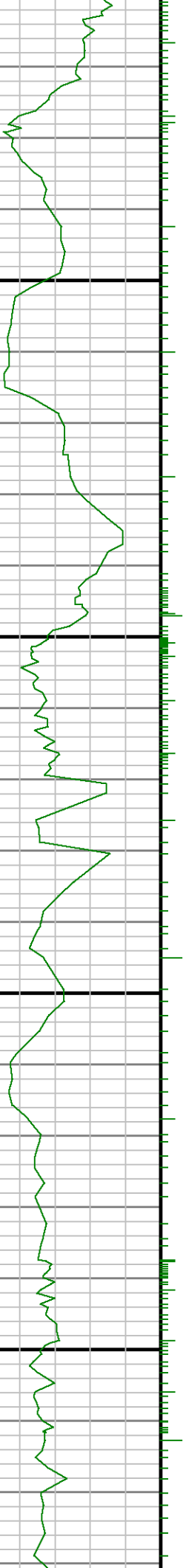
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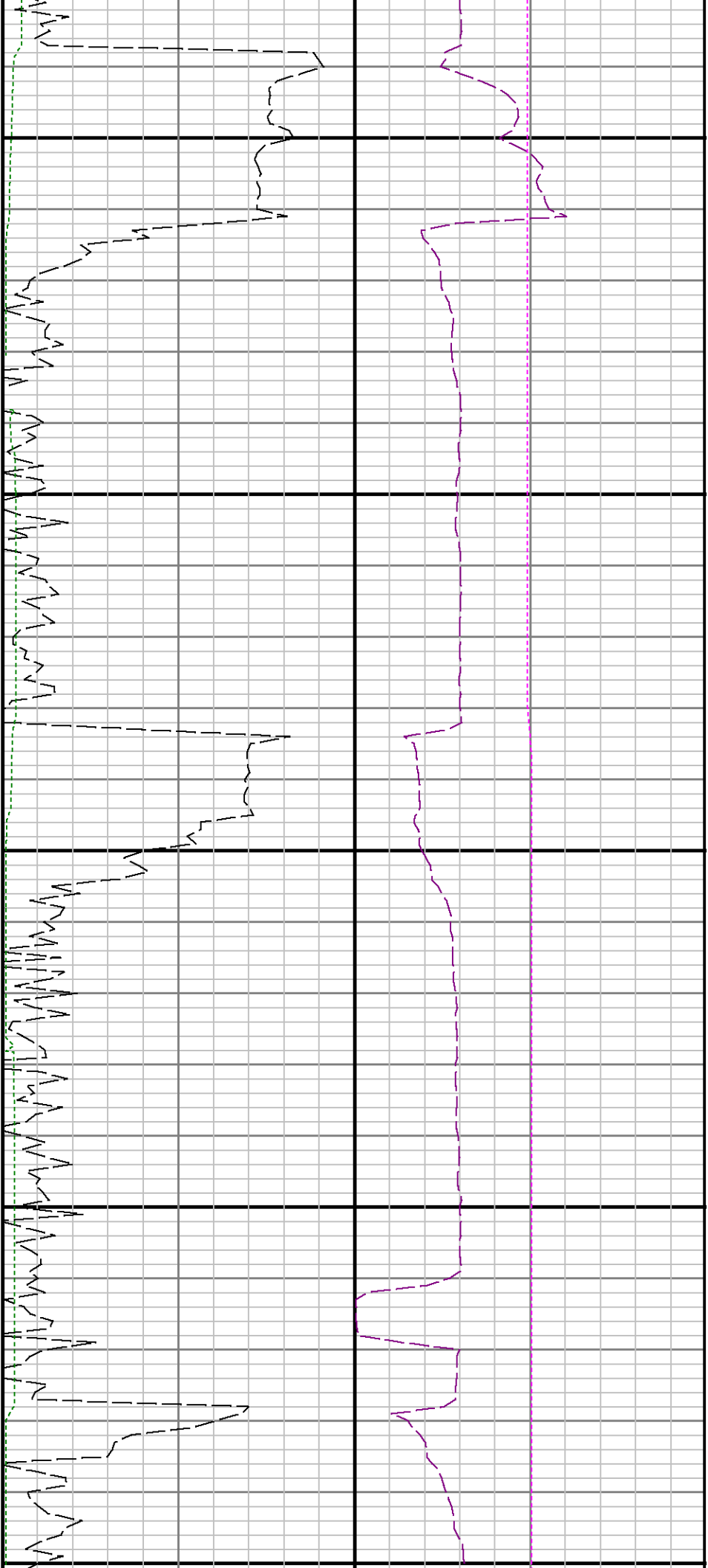




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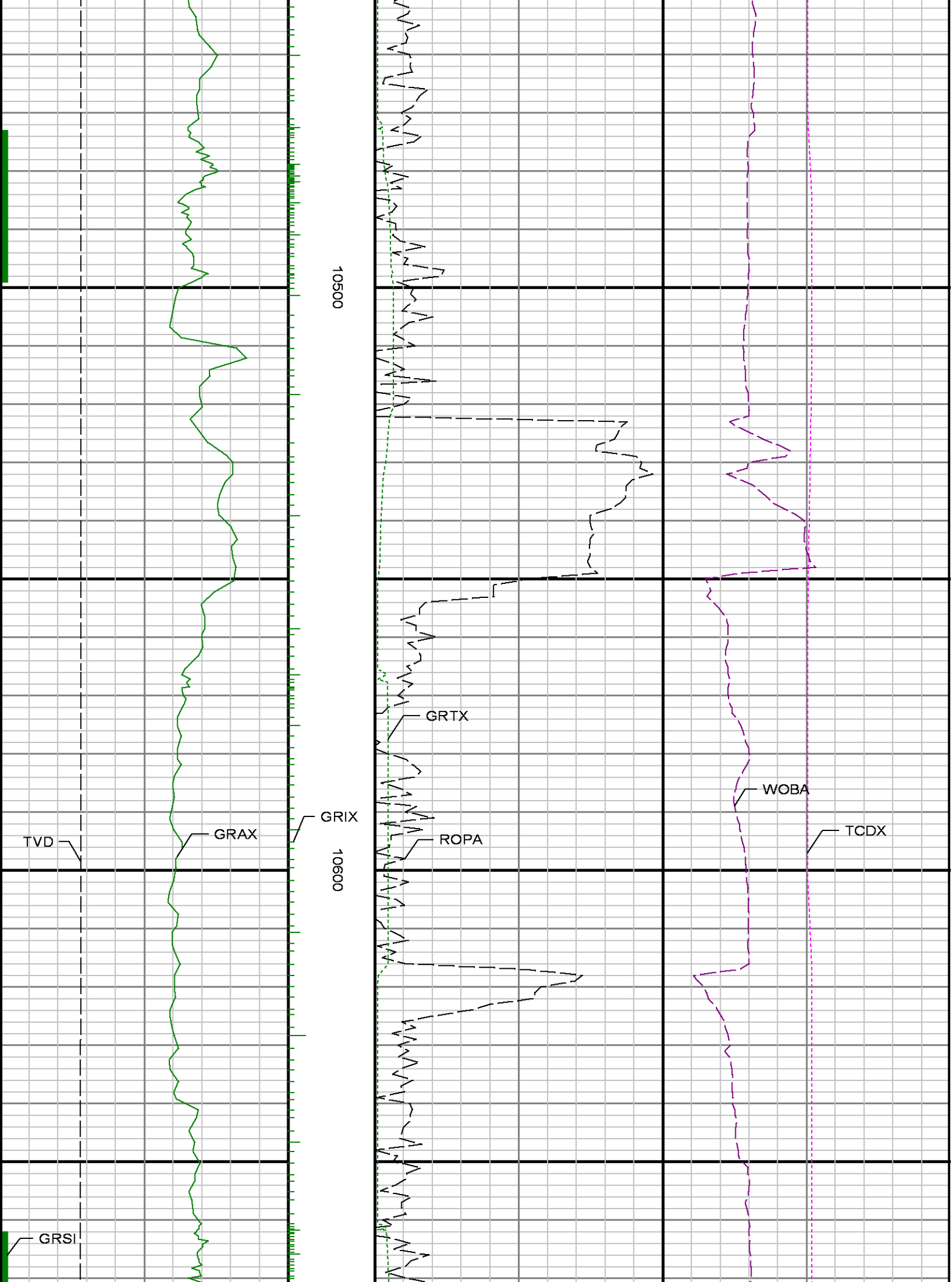
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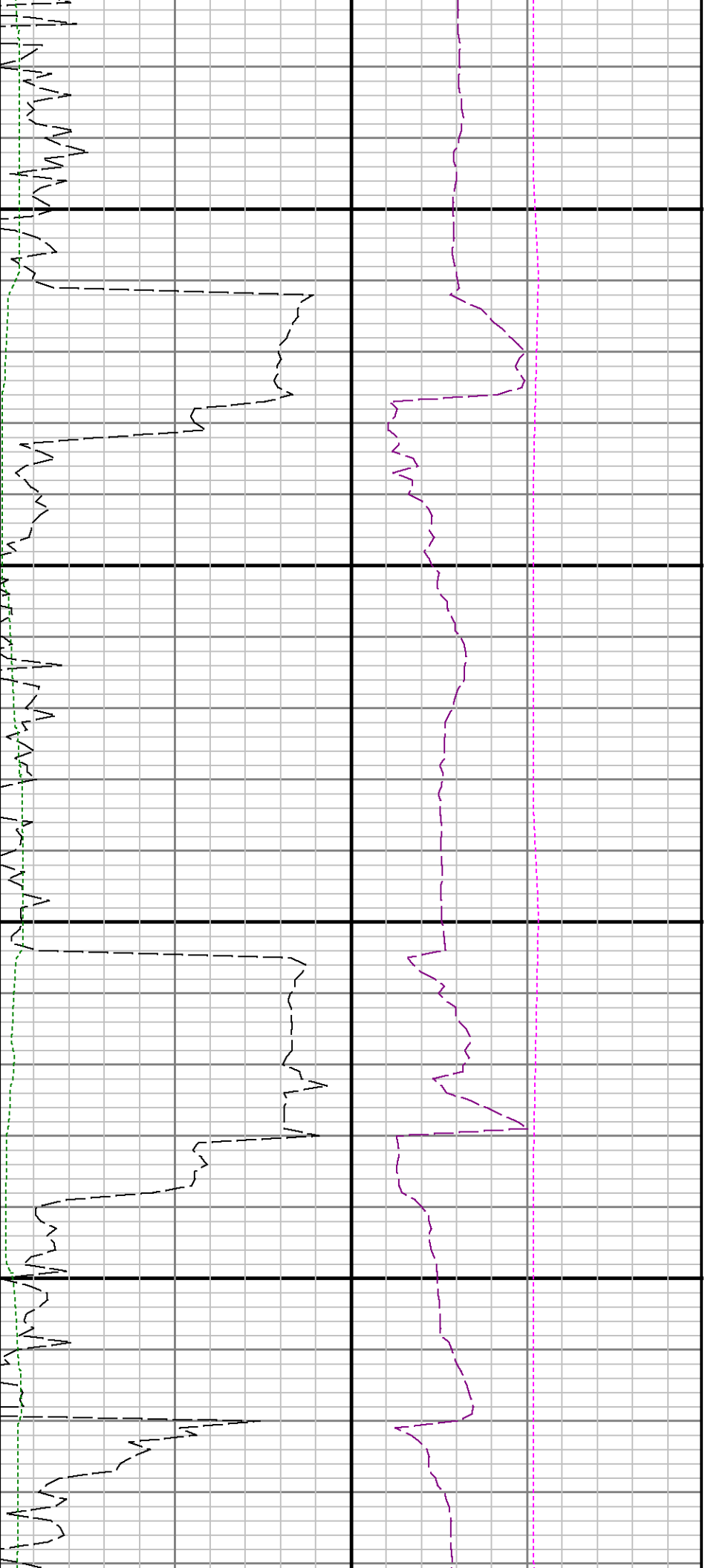




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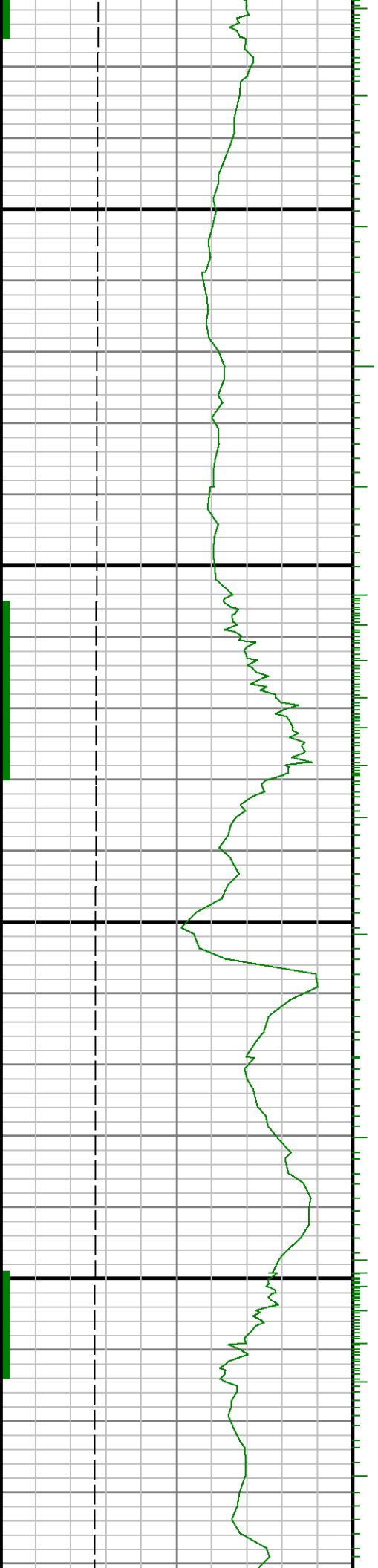
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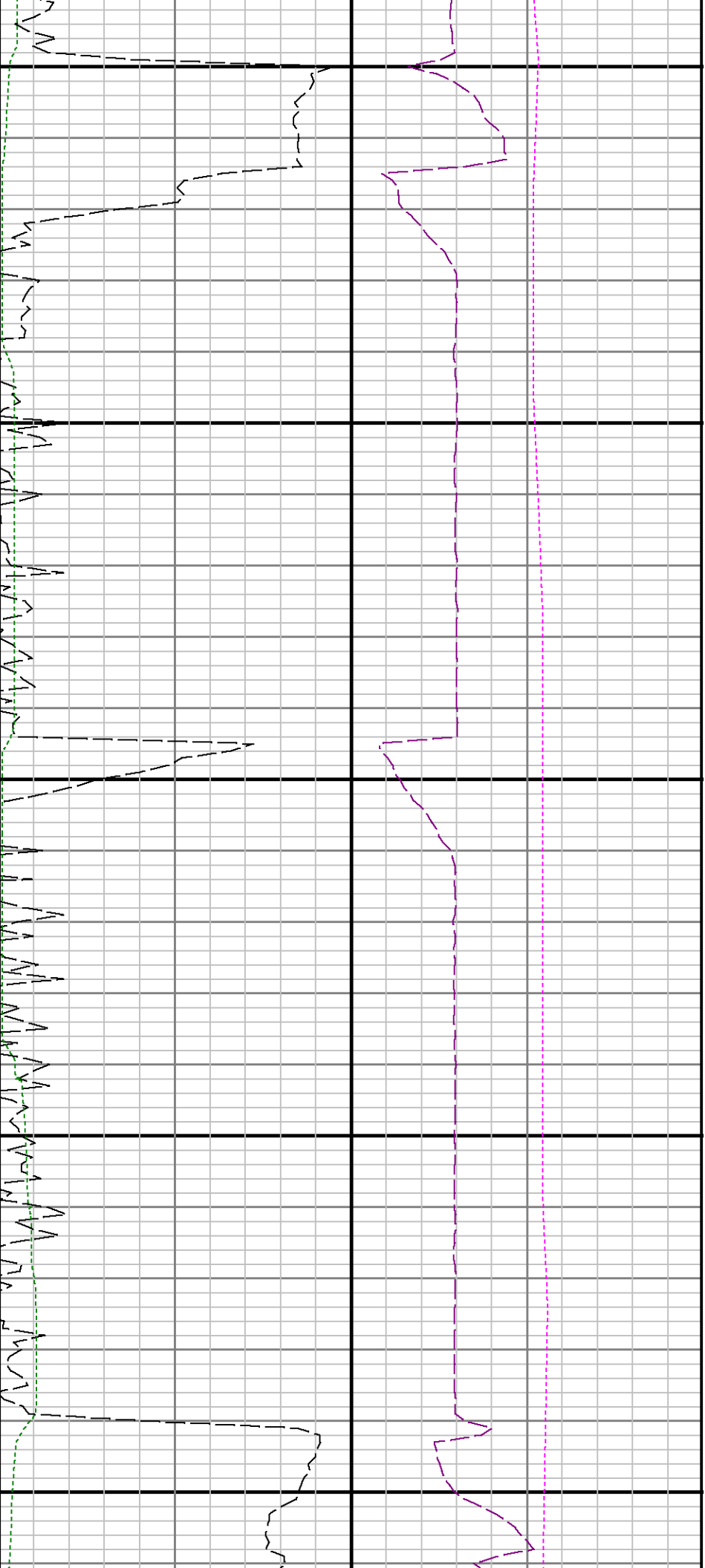




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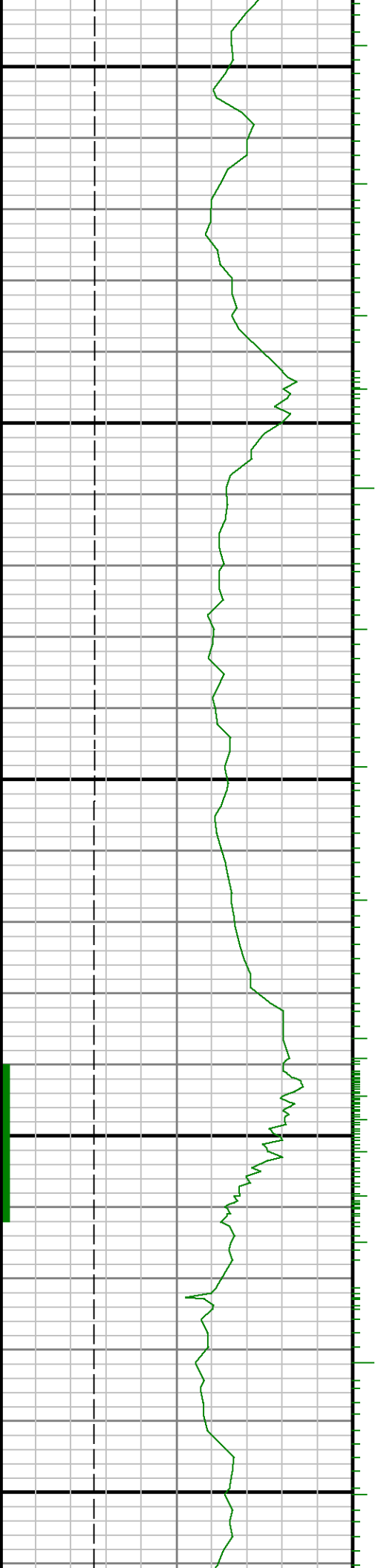


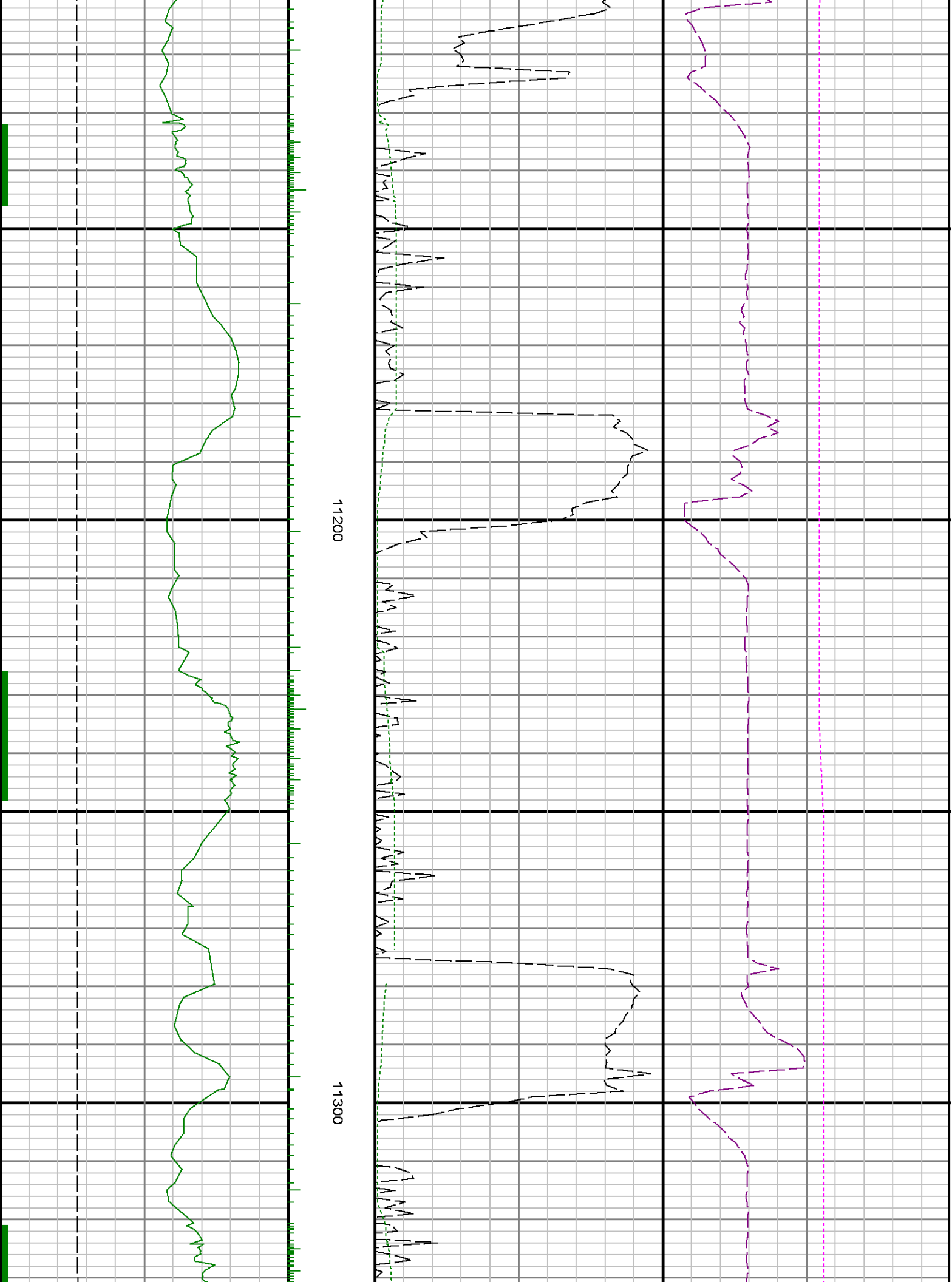


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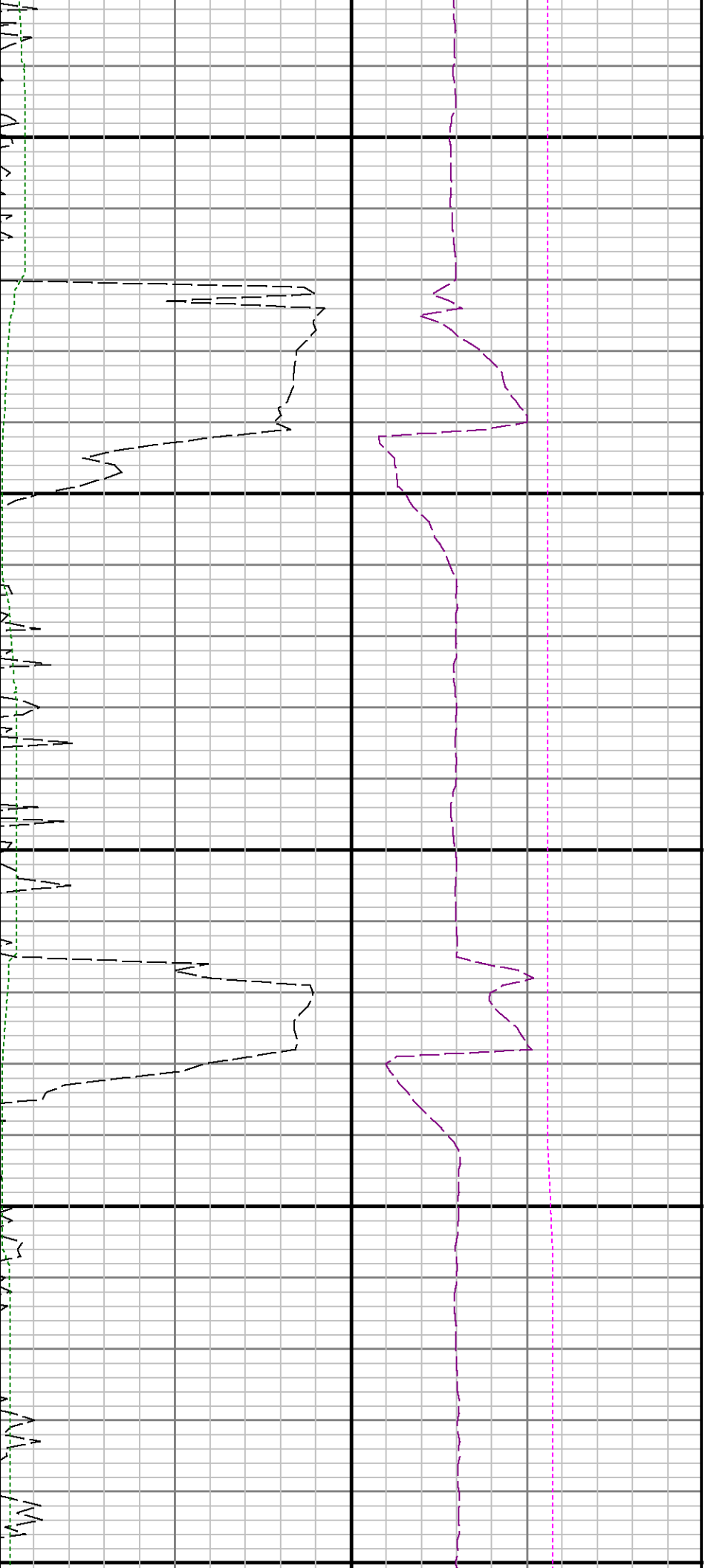
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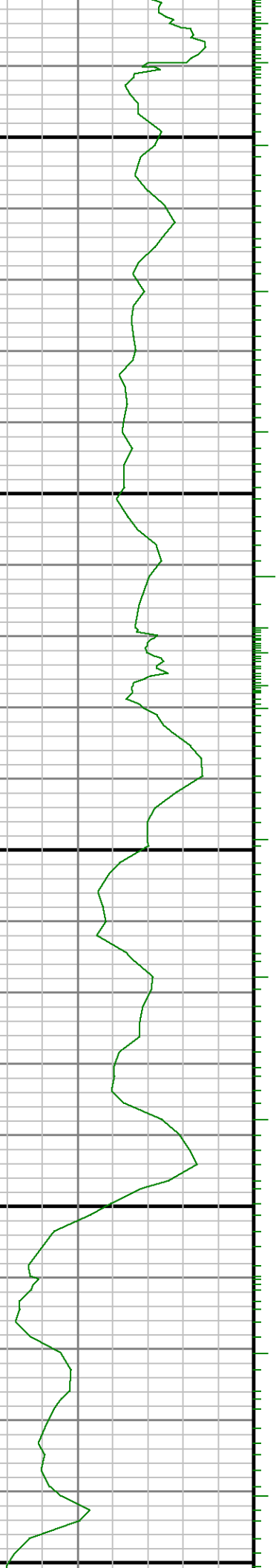


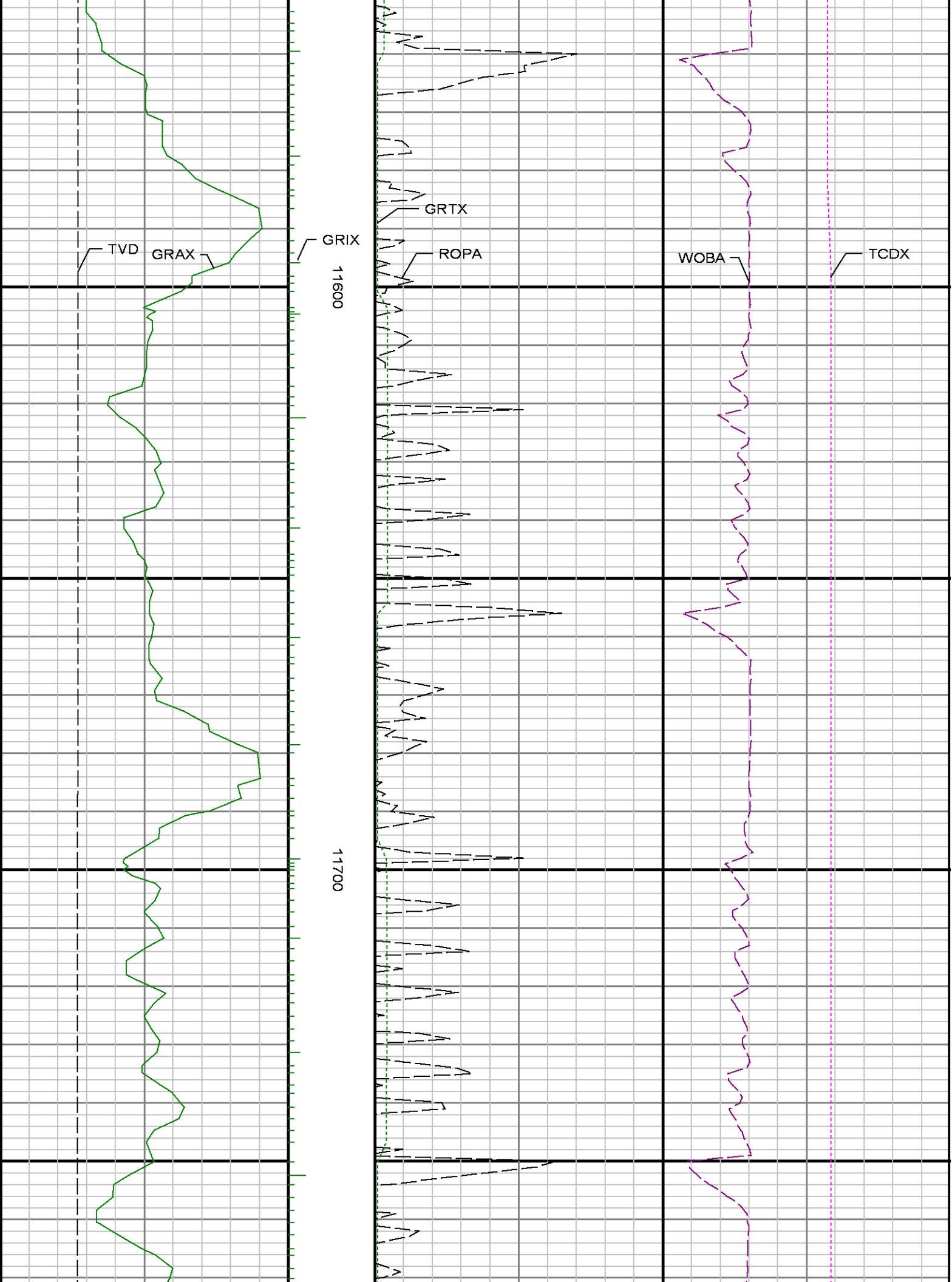


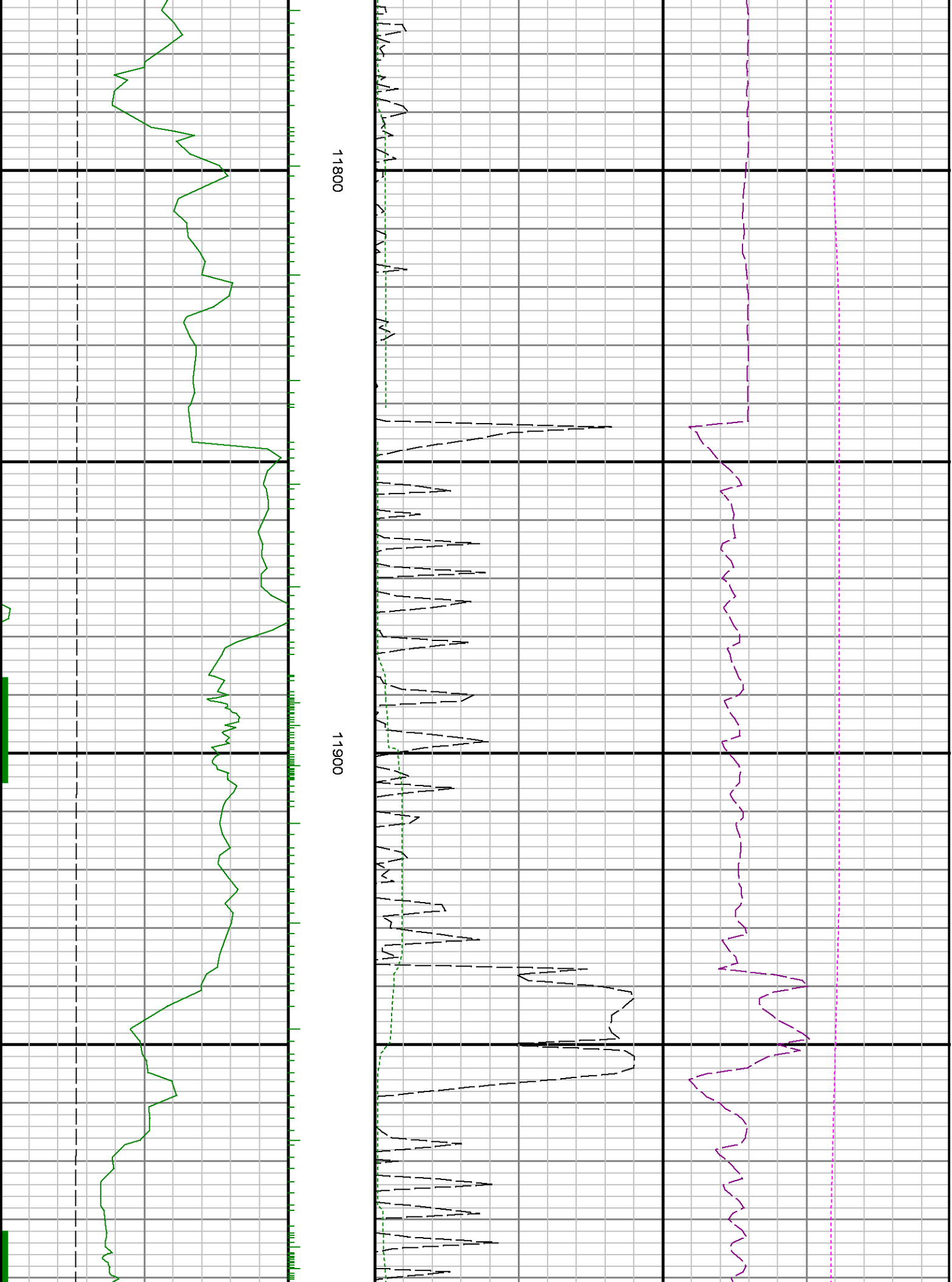


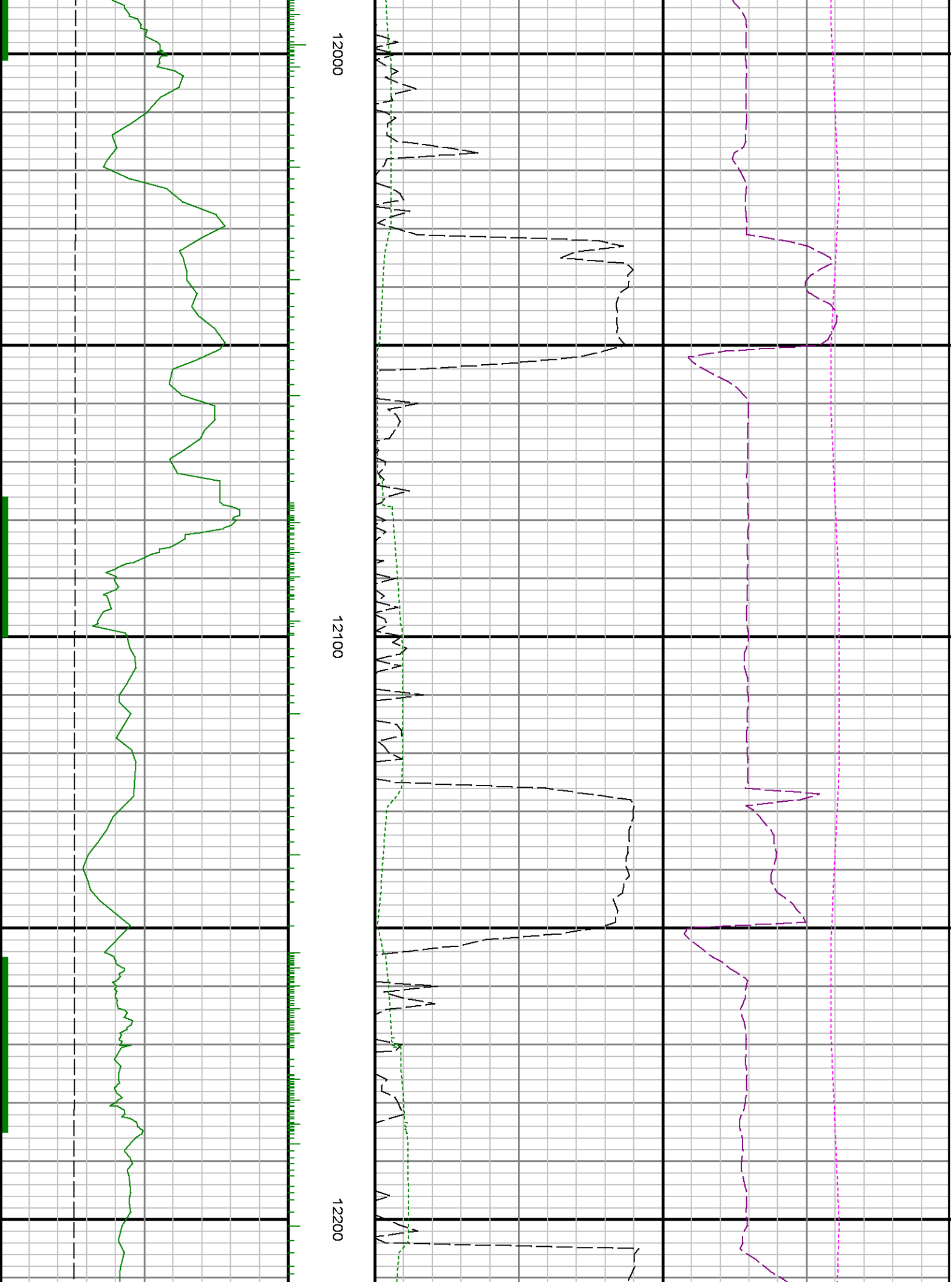
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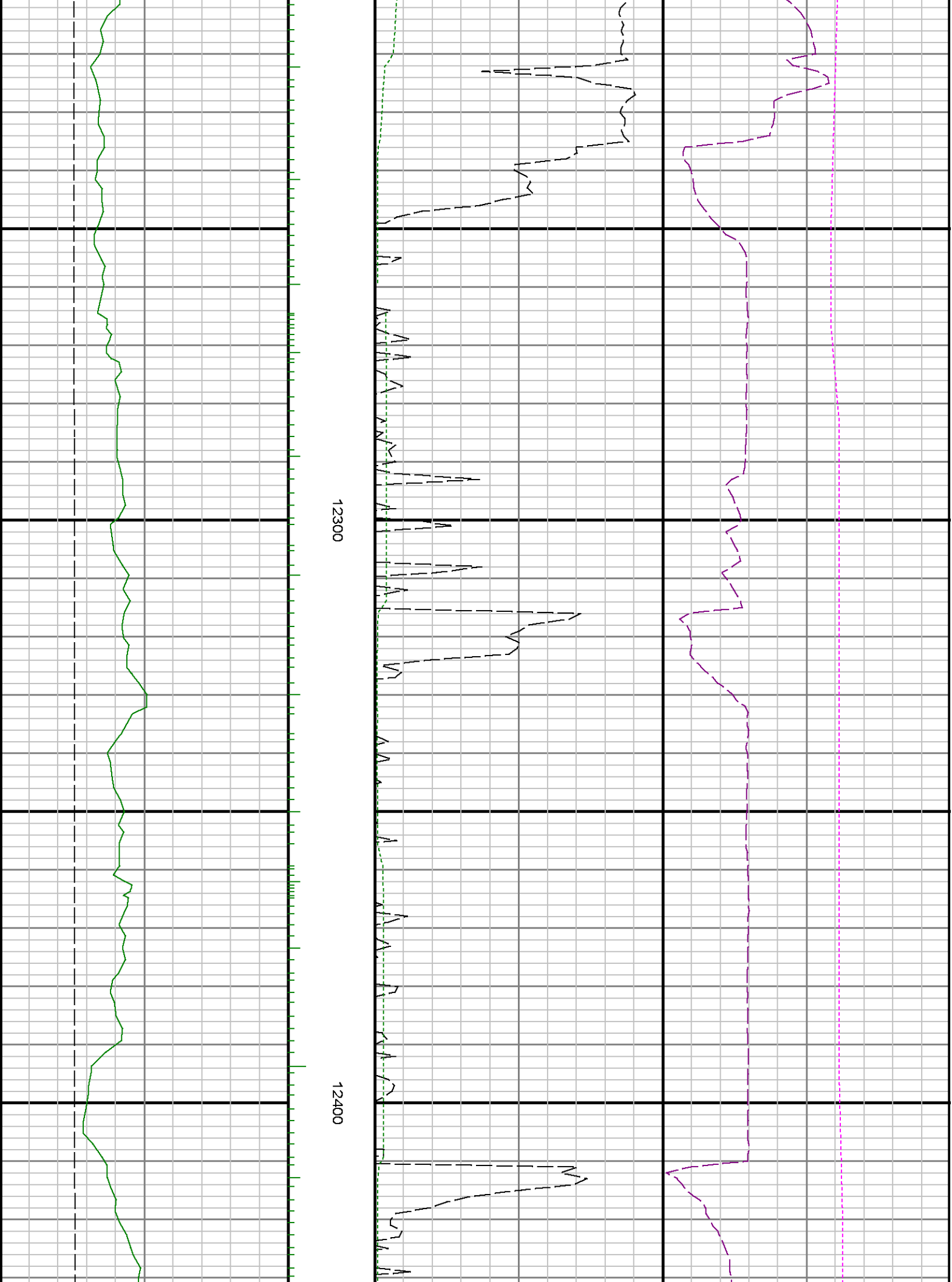
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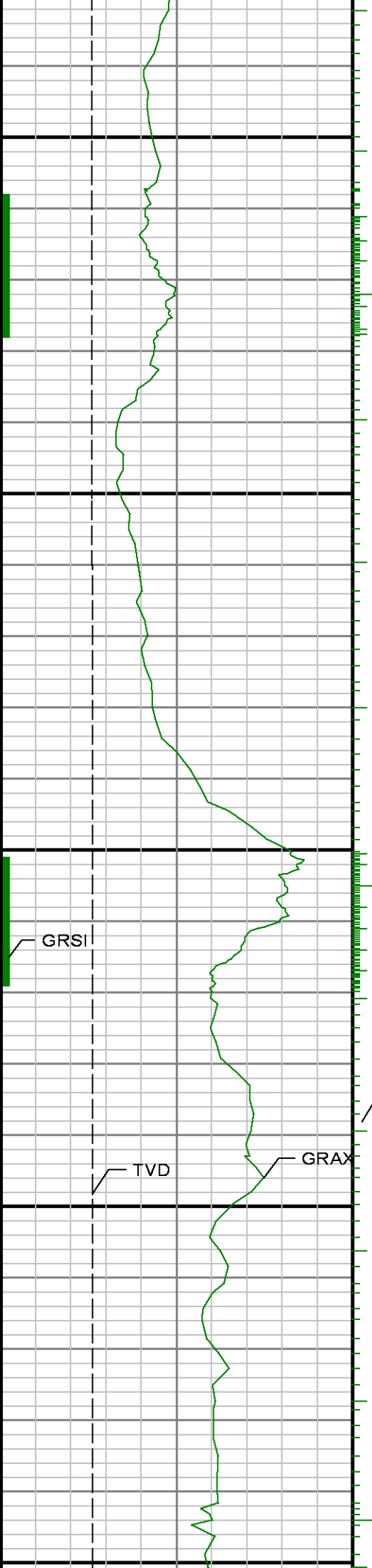












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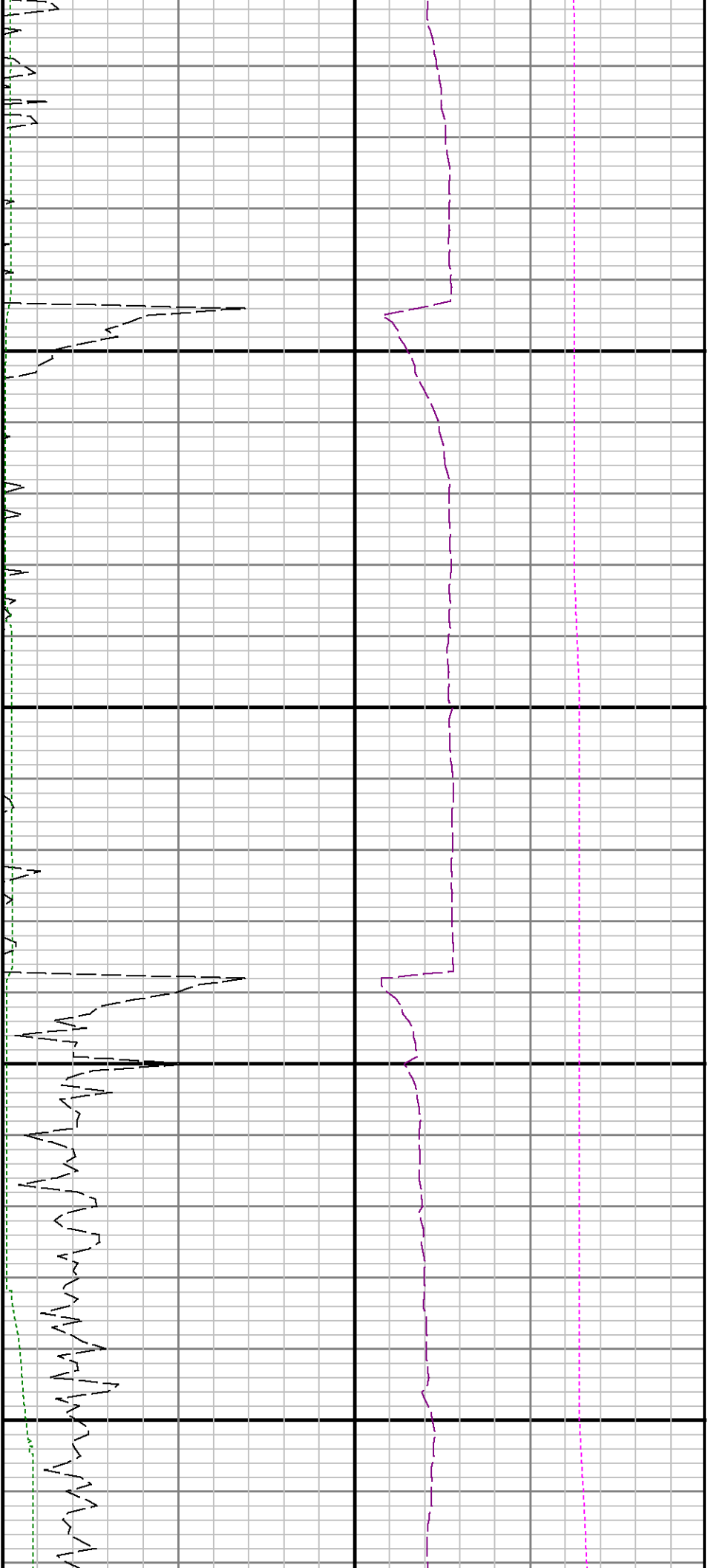


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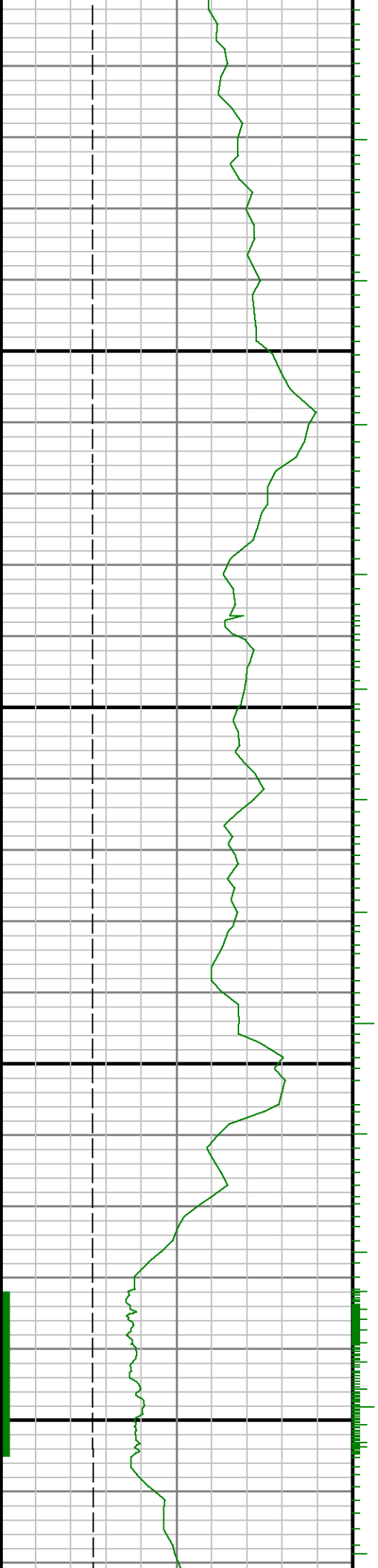
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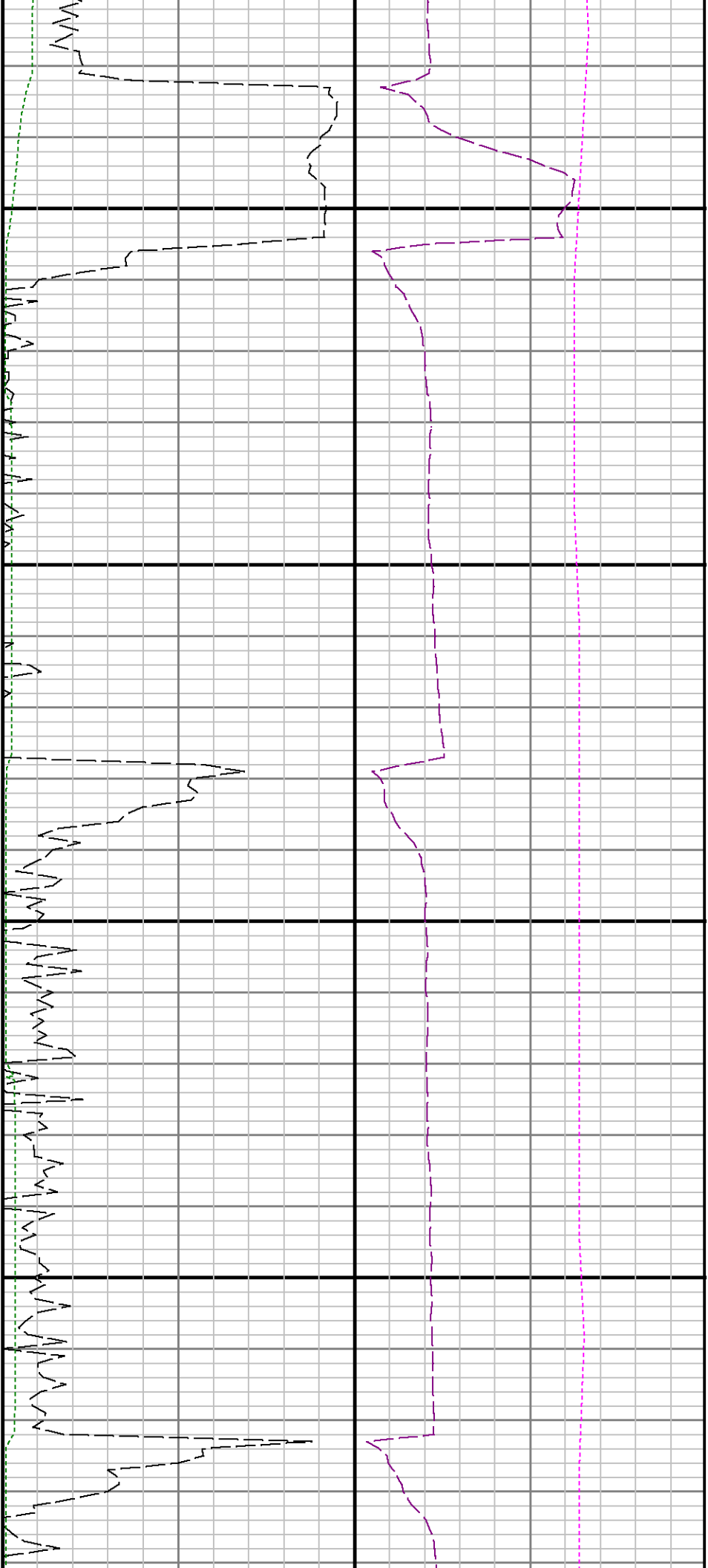
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