



## Realtime Log

## Gamma Ray

**Scale:**

**Company: Anadarko**

1-340

**Well: DOUTHIT 9C-27HZ**

## Measured Depth

**Field:** **Weld County (Kerr McGee)**

Region: Continental US Country: U.S.A.

### Status

**Surface Location:**

**Other Services:**

**FINAL PRINT**

Latitude: 40°11'39.908"N

API Number:

Longitudinal: 10-15

Wellbore Survey

Permanent Datum (P.D.): Ground Level      Elevation: 4957.00 ft.

### Elevations:

Log Measured From:

Above P.D.D.

OE.

1957 00 #

Depth Reference:

both

SL:

4941.00 ft.

interpretations provided in or from this log.

INTEQ shall under no circumstances be responsible for expenses incurred or sustained in connection expressed and implied warranties related to this service.

Standard Terms and Conditions.

## Log Run Summary

[illegible]

Crew											
Name	Arrive	Depart		Name	Arrive	Depart		Name	Arrive	Depart	
	Wellsite	Wellsite			Wellsite	Wellsite			Wellsite	Wellsite	
Emily Cazzell	18 Oct 14	21 Oct 14							Donald Delay	18 Oct 14	21 Oct 14
Bryan Severson	22 Oct 14	26 Oct 14							Andy King	22 Oct 14	23 Oct 14
Emily Cazzell	23 Oct 14	26 Oct 14									

Mud Properties Record												
Date / Time		LWD	Measured	Mud	Density	Viscosity	pH	Fluid	Oil /	Source	Total	K+
		Run No.	Depth (ft)	Type	(ppg)	(cp)		Loss (bbls)	Water		Chlorides (ppm)	(%)
18 Oct 14	22:00	1	3802.0	Water Based	8.5	30	8.5	N/A	0.1/98.9	Active Mud Pit	1800	N/A
19 Oct 14	22:00	1	7084.0	Water Based	10.1	45	9.5	N/A	2.5/88.3	Active Mud Pit	1900	N/A
20 Oct 14	22:00	2	7642.0	Water Based	10.2	47	9.5	N/A	3.5/86.8	Active Mud Pit	1900	N/A
21 Oct 14	22:00	2	7642.0	Water Based	10.5	50	9.3	N/A	3.6/85.5	Active Mud Pit	1900	N/A
22 Oct 14	22:00	3	9550.0	Water Based	9.5	51	9.5	N/A	4.0/89.0	Active Mud Pit	1900	N/A
23 Oct 14	22:00	3	11951.0	Water Based	9.5	45	9.7	N/A	4.0/89.0	Active Mud Pit	1900	N/A
24 Oct 14	22:00	3	12480.0	Water Based	9.5	45	9.3	N/A	4.2/88.7	Active Mud Pit	1900	N/A

Mnemonics		
Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. Avg.	API
GRIX	Gamma Ray Data Density	Points
GRSI	Gamma Ray Sliding Indicator	Pointless
GRTX	Gamma Ray Time Since Drilled	min
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.	klbs

Equipment and Service Data						
LWD	Tool	Serial	Measurement	Bit	Max	Min
Run		Number		Offset	O.D.	I.D.
No.				(ft)	(in.)	(in.)
1	DIR	12456790	Directional	60.97	6.750	3.250
1	SRIG	10341993	Gamma	57.59	6.750	3.250
2	DIR	12142328	Directional	54.85	6.750	3.250
2	SRIG	12416862	Gamma	51.47	6.750	3.250
3	DIR	10073495	Directional	65.29	4.500	2.688
3	SRIG	12380940	Gamma	61.91	4.500	2.688
4	DIR	10073495	Directional	65.29	4.500	2.688
4	SRIG	12380940	Gamma	61.91	4.500	2.688

Service and Tool Mnemonics

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

Comments

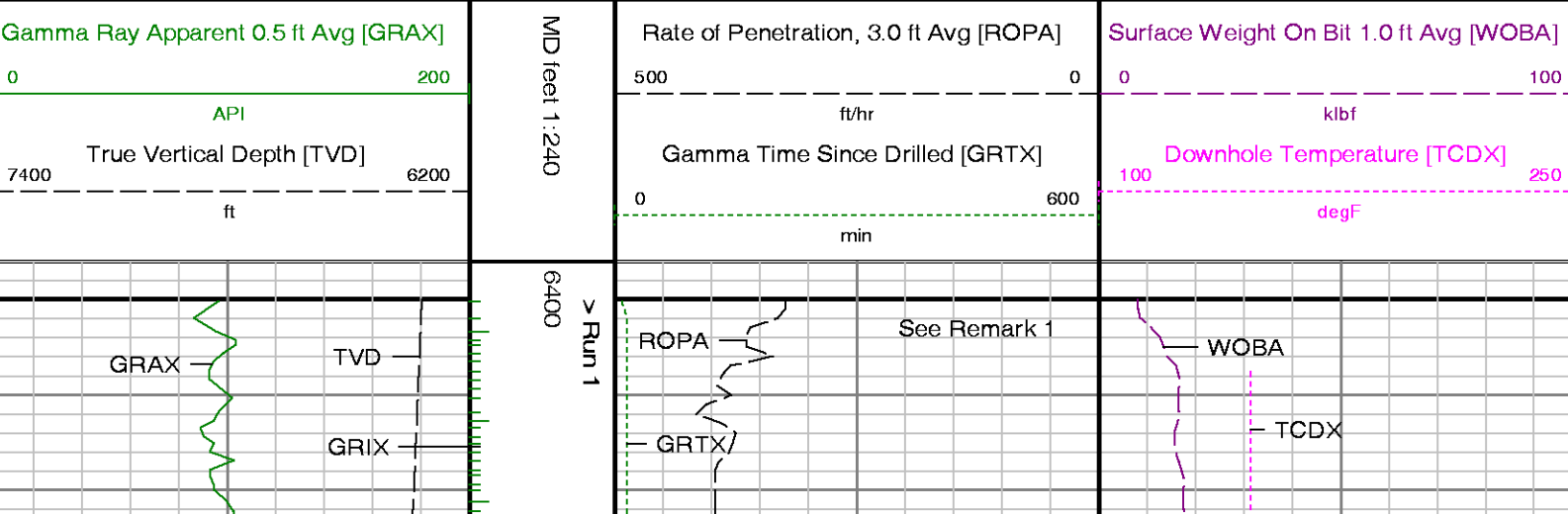
- 1.) Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes LWD logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to present logging data.
- 2.) Baker Hughes LWD run 1 and 2 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 3/4 inch bit and steerable assembly from 1259 to 7642 ft MD (1258 to 7262 ft TVD).
- 3.) Baker Hughes LWD run 3 and 4 utilized 4 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 6 1/8 inch bit and steerable assembly from 7642 to 12968 ft MD (7642 to 7245 ft TVD).
- 4.) The solid line on the far left track is the sliding indicator.

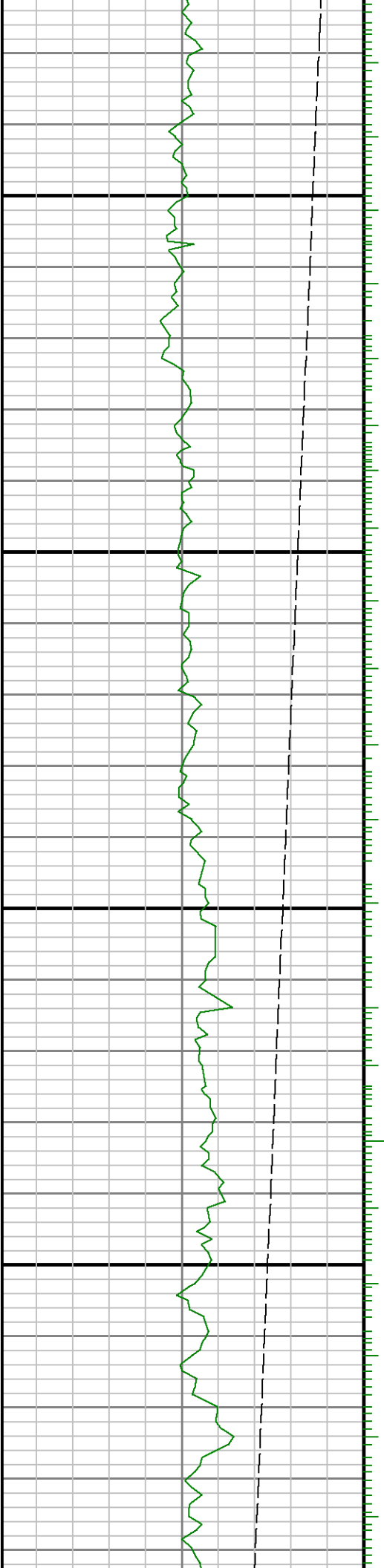
Remarks

Number	Measured Depth (ft.)	Hole Section (in.)	LWD Run No.	Remark
1	6400	8.750	1	Gamma ray logging operations began at 6400 ft MD (6318 ft TVD).
2	7605	8.750	1	The GRTX range from 7020 to 7084 ft MD (6928 to 6984 ft TVD) was logged 17 hours after being drilled due to picking up bit, motor , and mwd tools.
3	7642	8.750	2	The GRTX range from 7590 to 7642 ft MD (7256 to 7262 ft TVD) was logged 40 hours after being drilled due to casing operations.
4	12480	6.125	3	The GRTX range from 12391 to 12480 ft MD (7251 to 7251 ft TVD) was logged 36 hours after being drilled due to picking up bit.
5	12905	6.125	4	There is no gamma ray data from 12905 to 12968 ft MD (7247 to 7245 ft TVD) due to sensor offset.



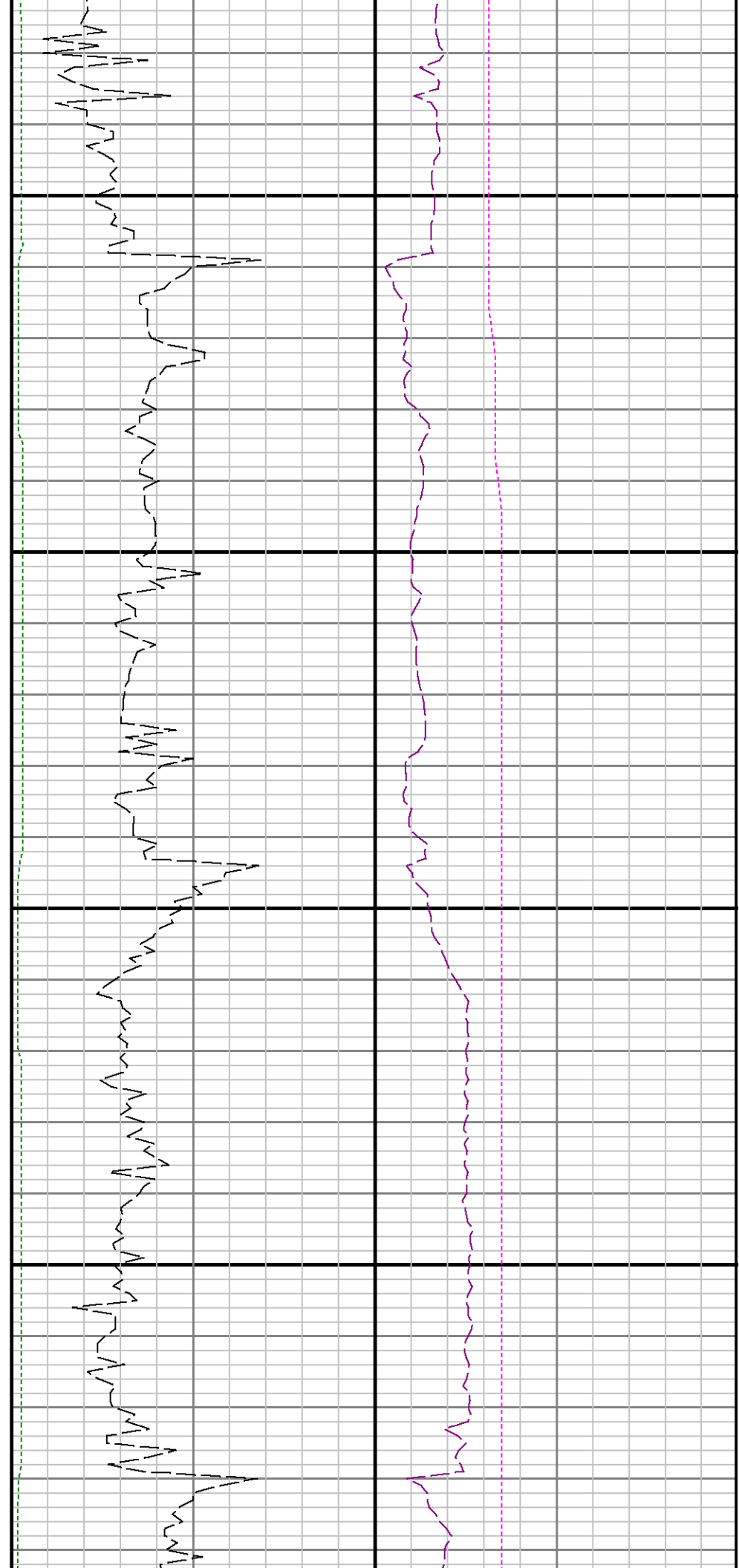
Company : Anadarko  
Well : Douthit 9C-27HZ  
Interval : 6396.00 - 12970.00 feet  
Created : 25/Oct/2014 2:51:53 AM

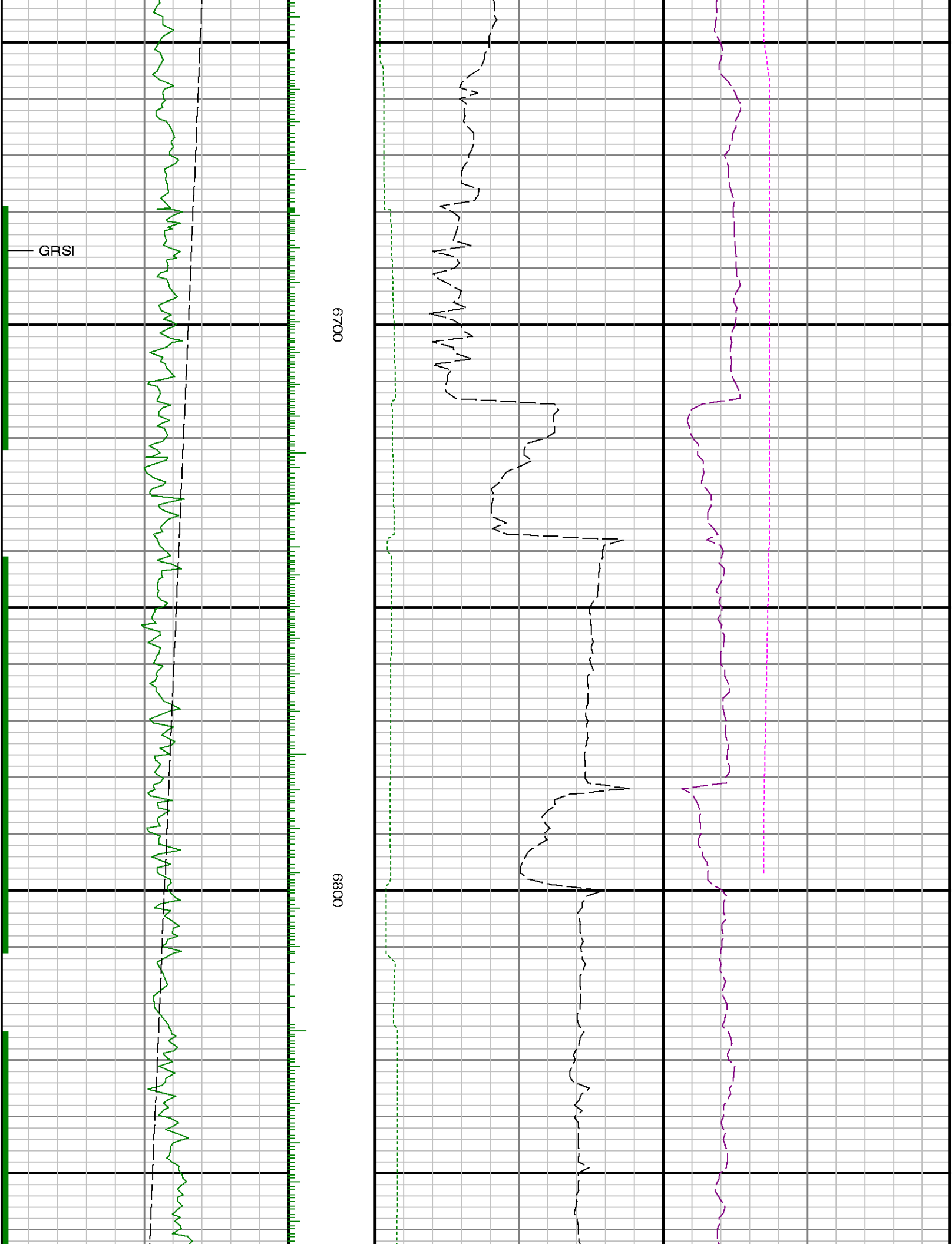


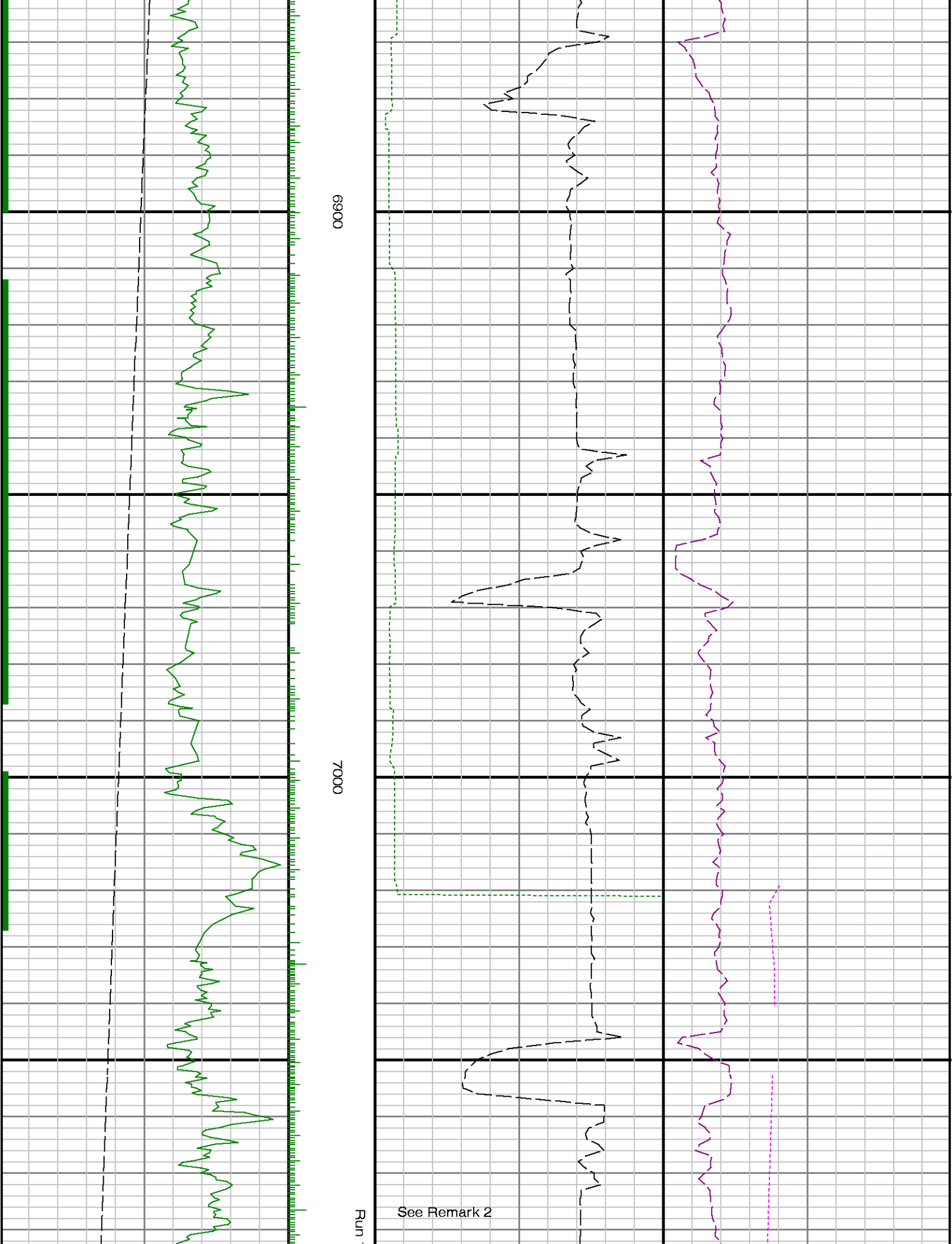


6500

6600







6900

7000

See Remark 2

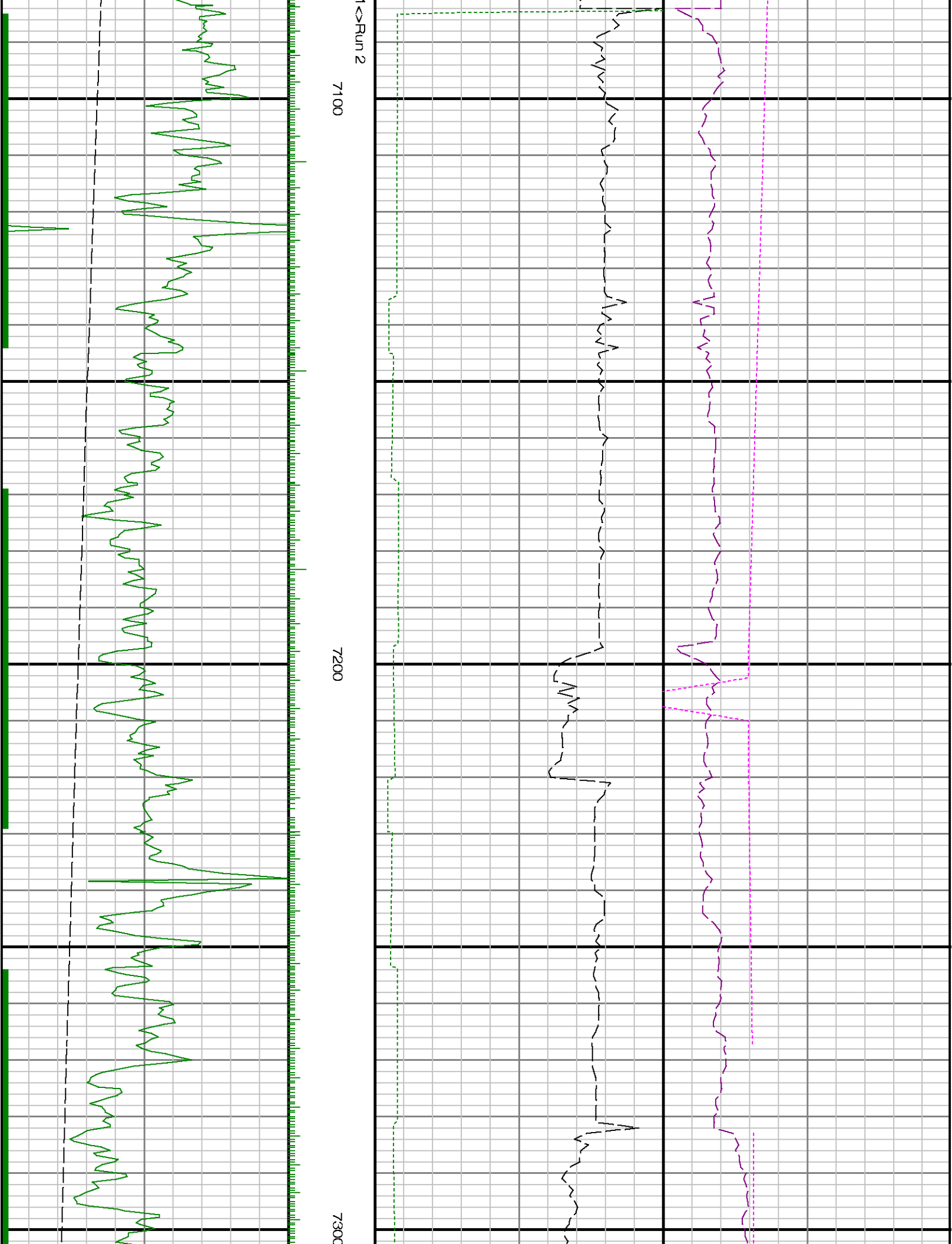
Run 1

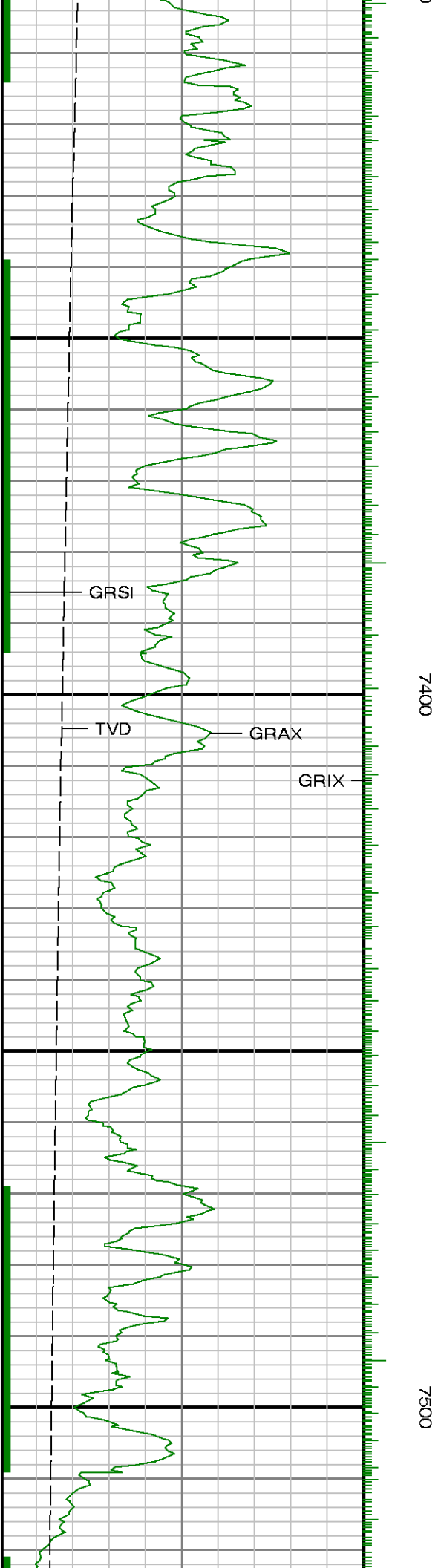
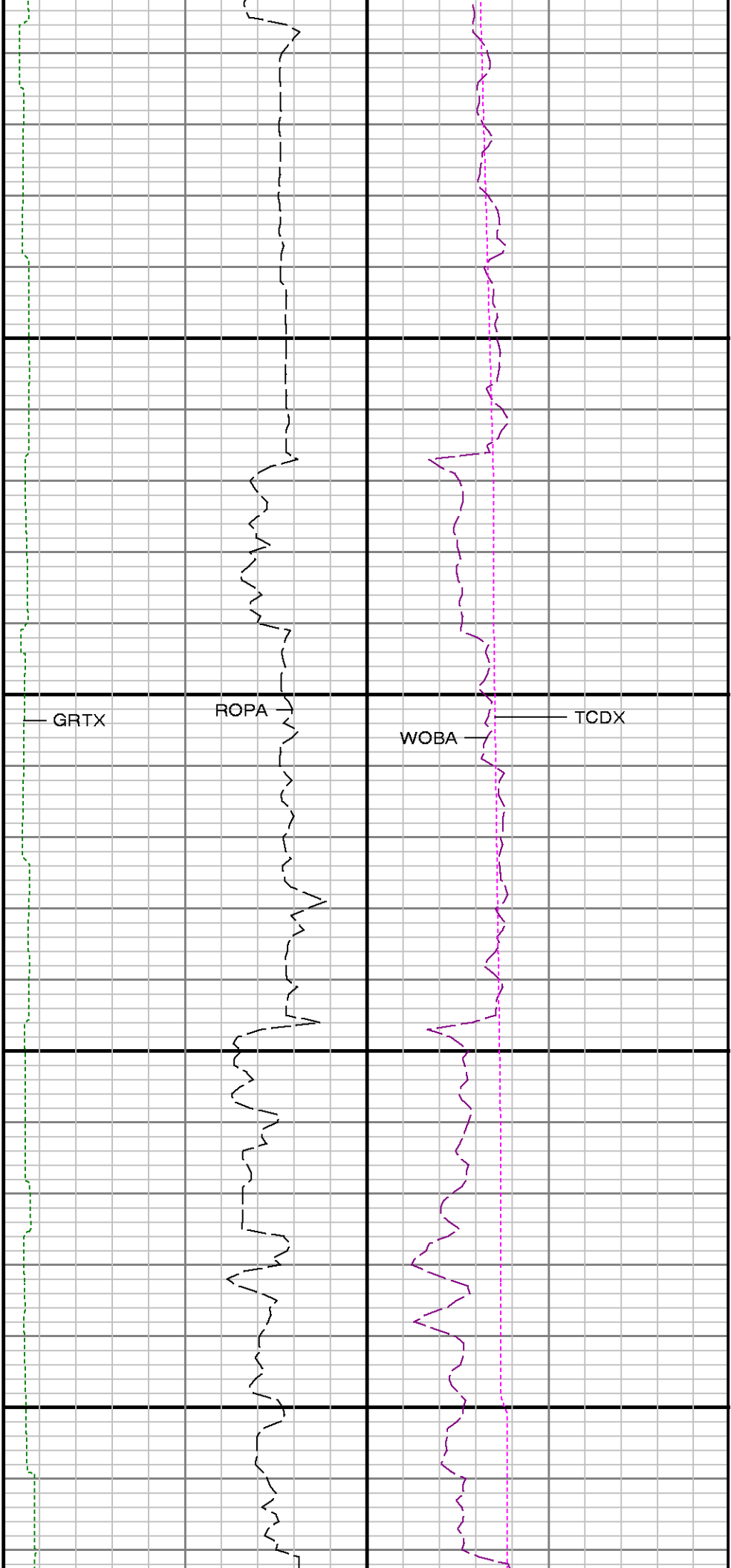
1<>Run 2

7100

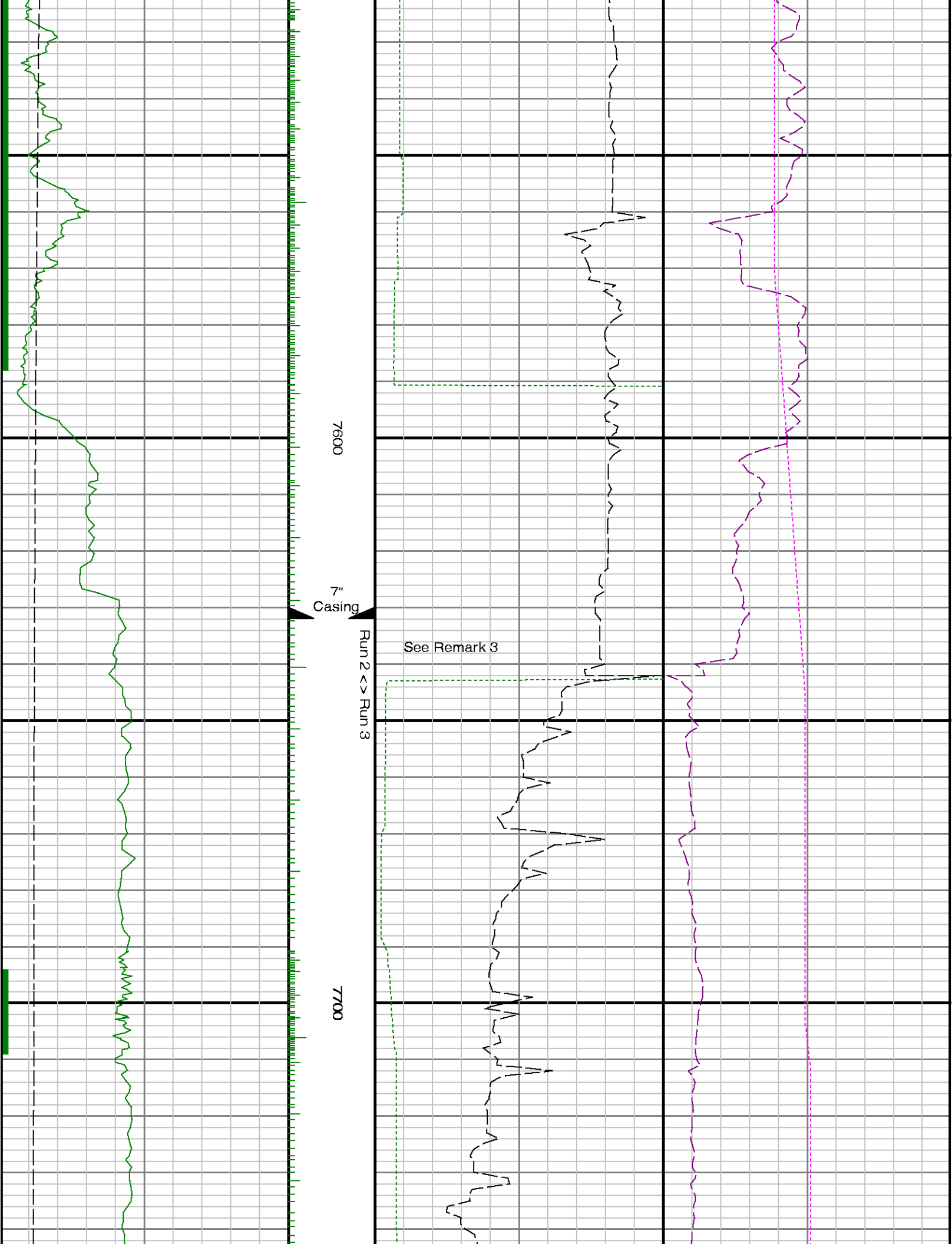
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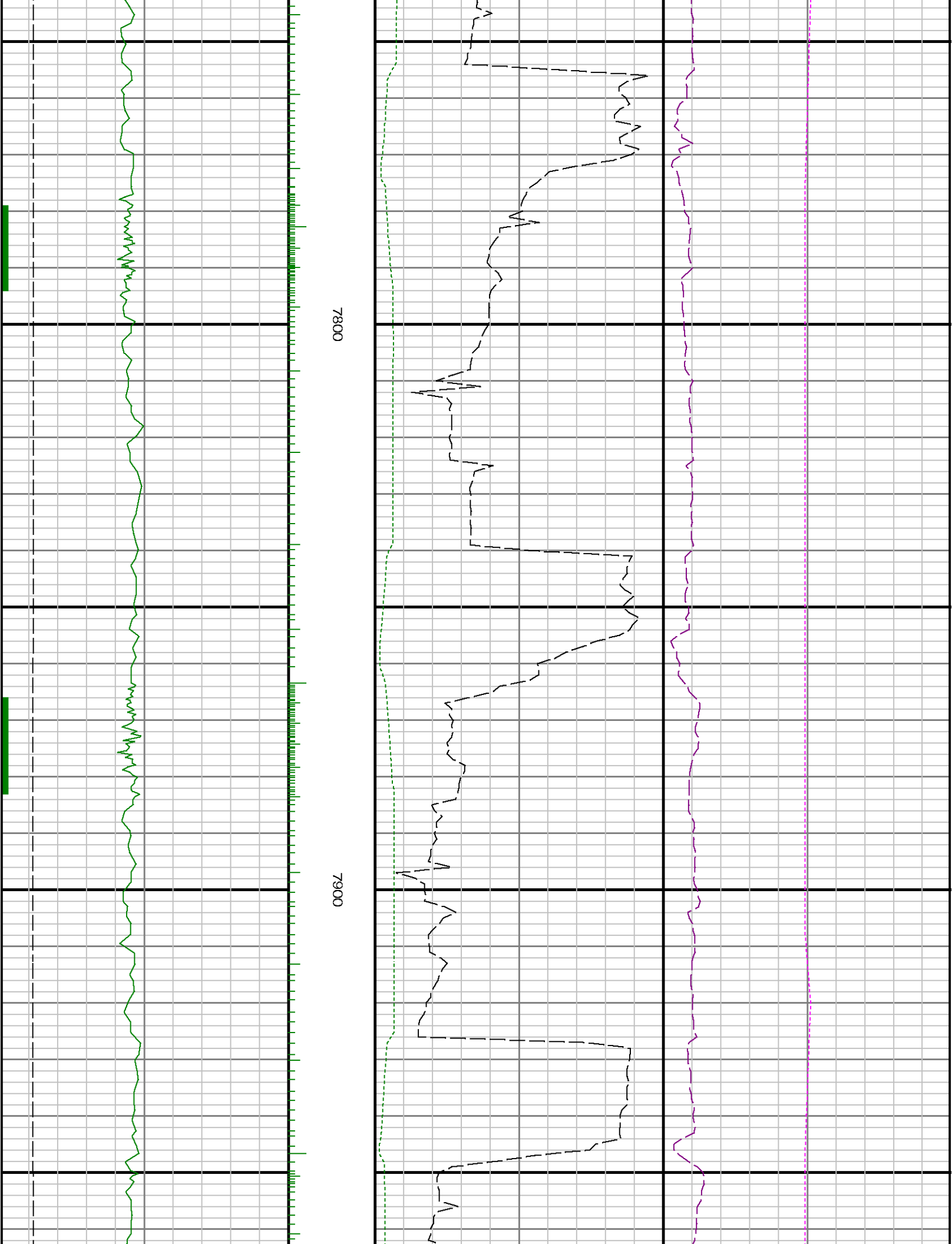
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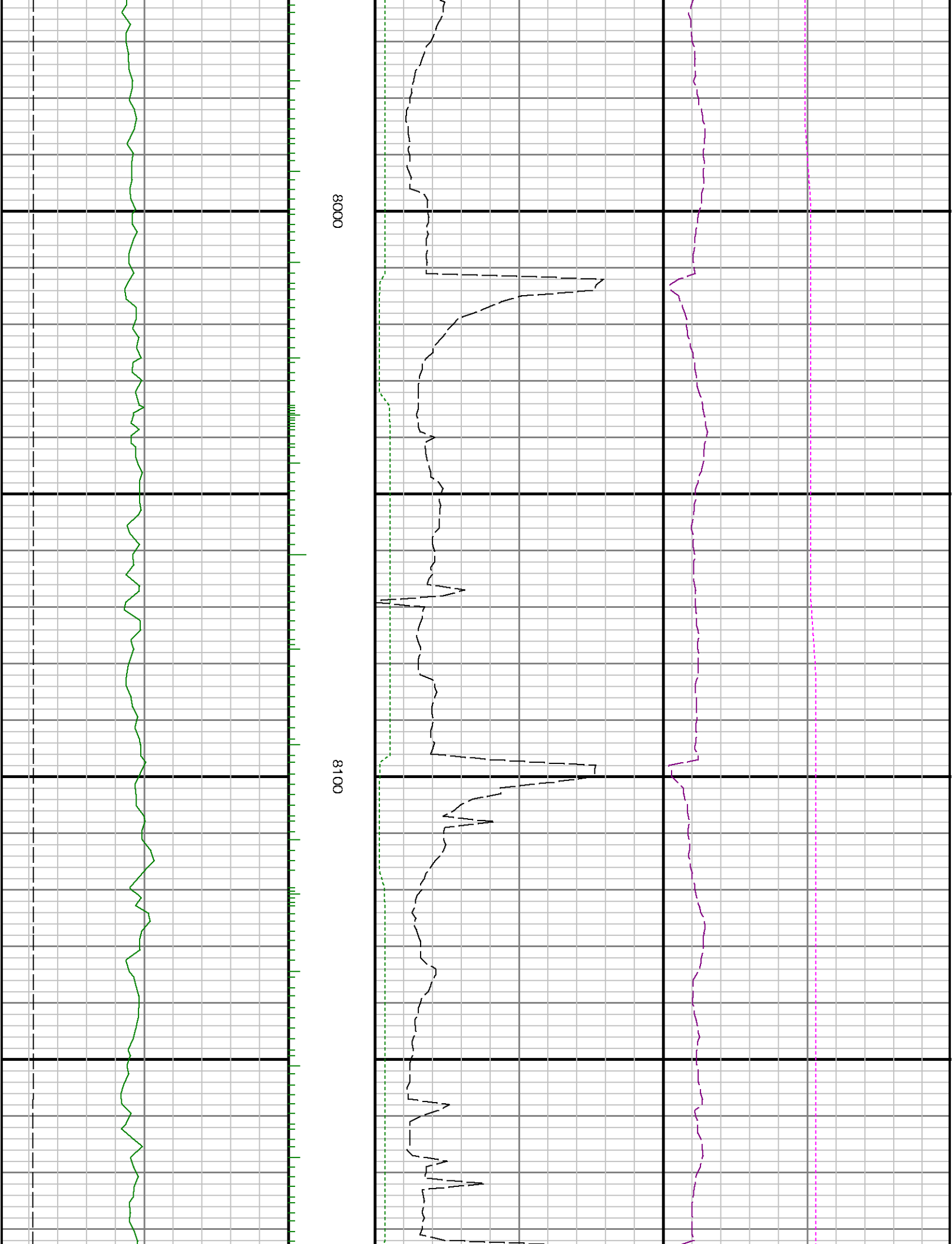


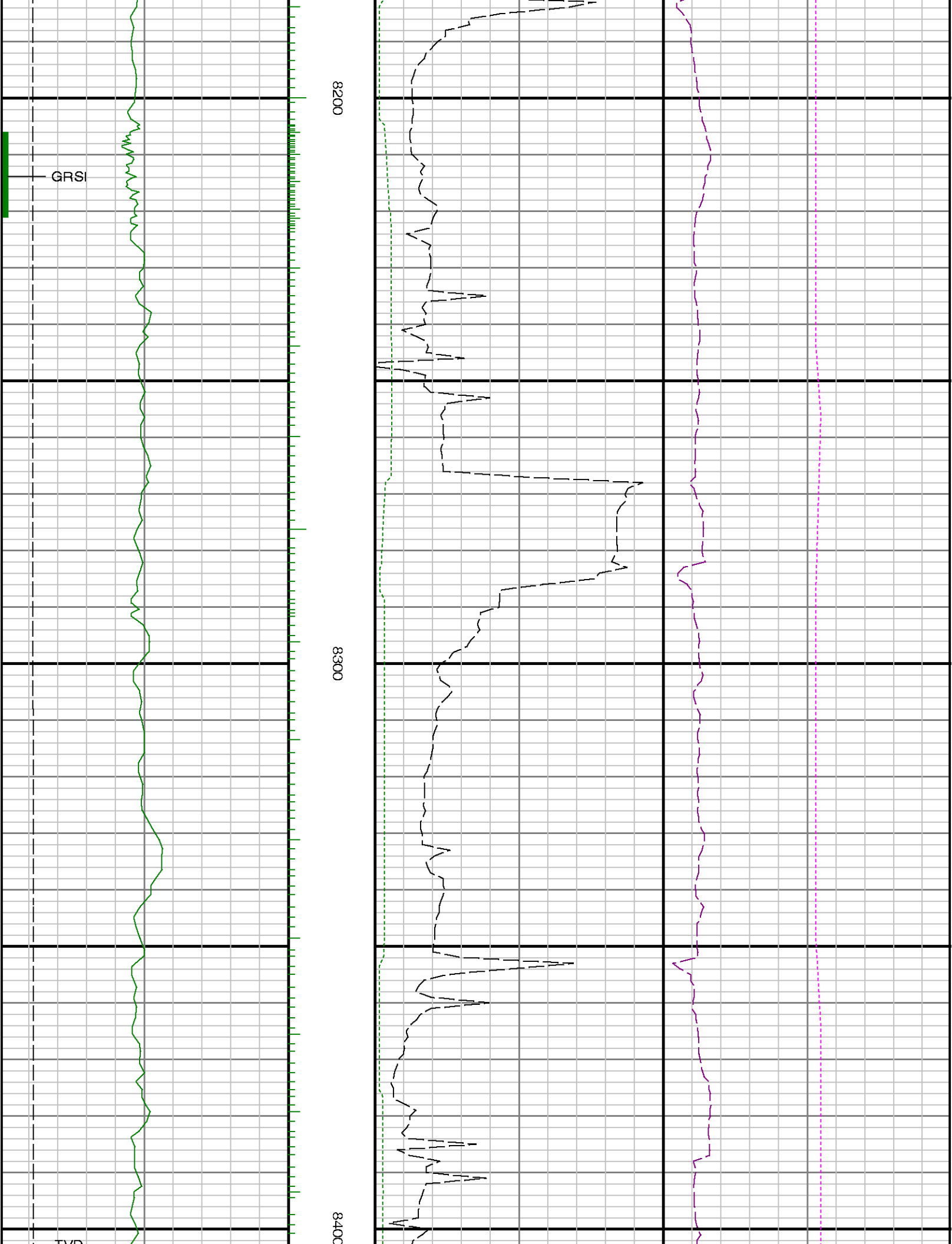


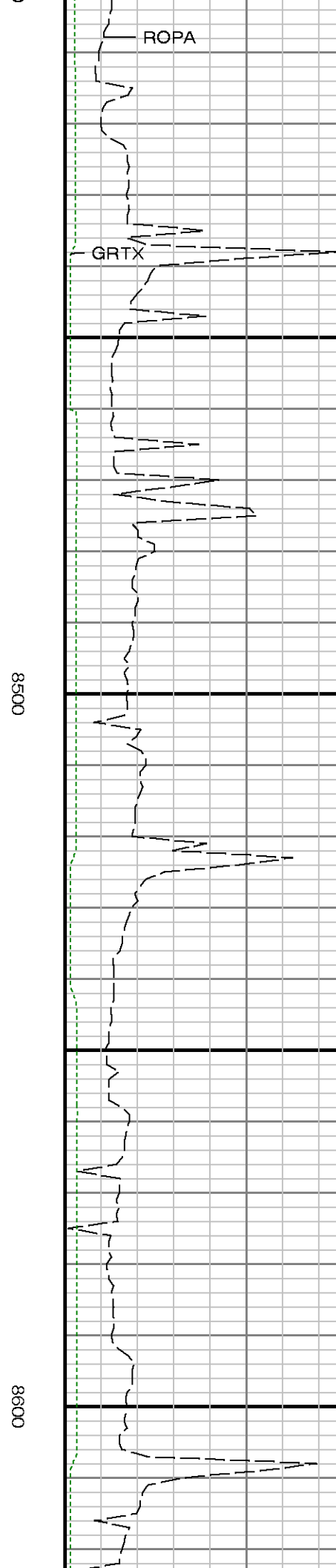
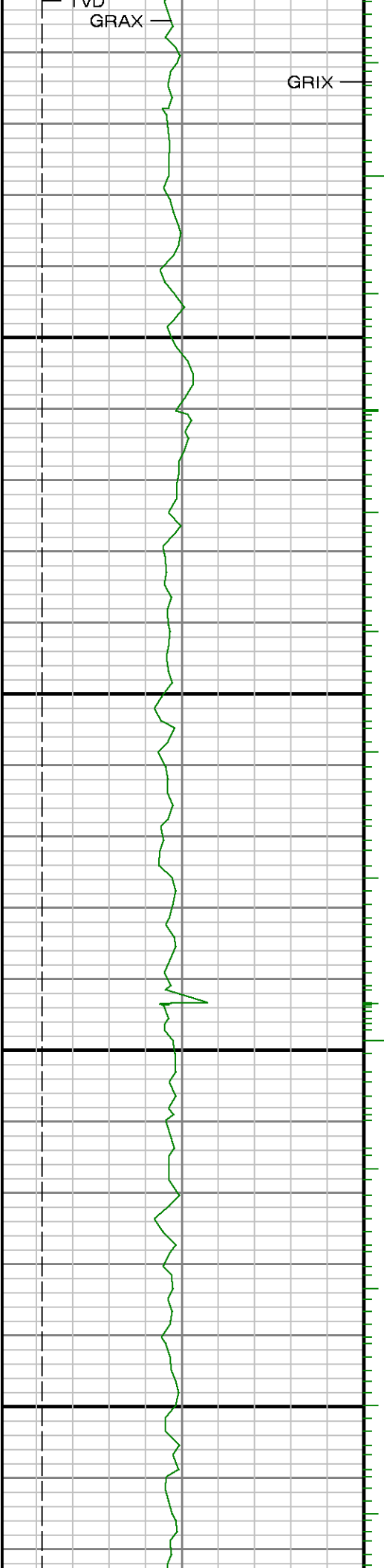


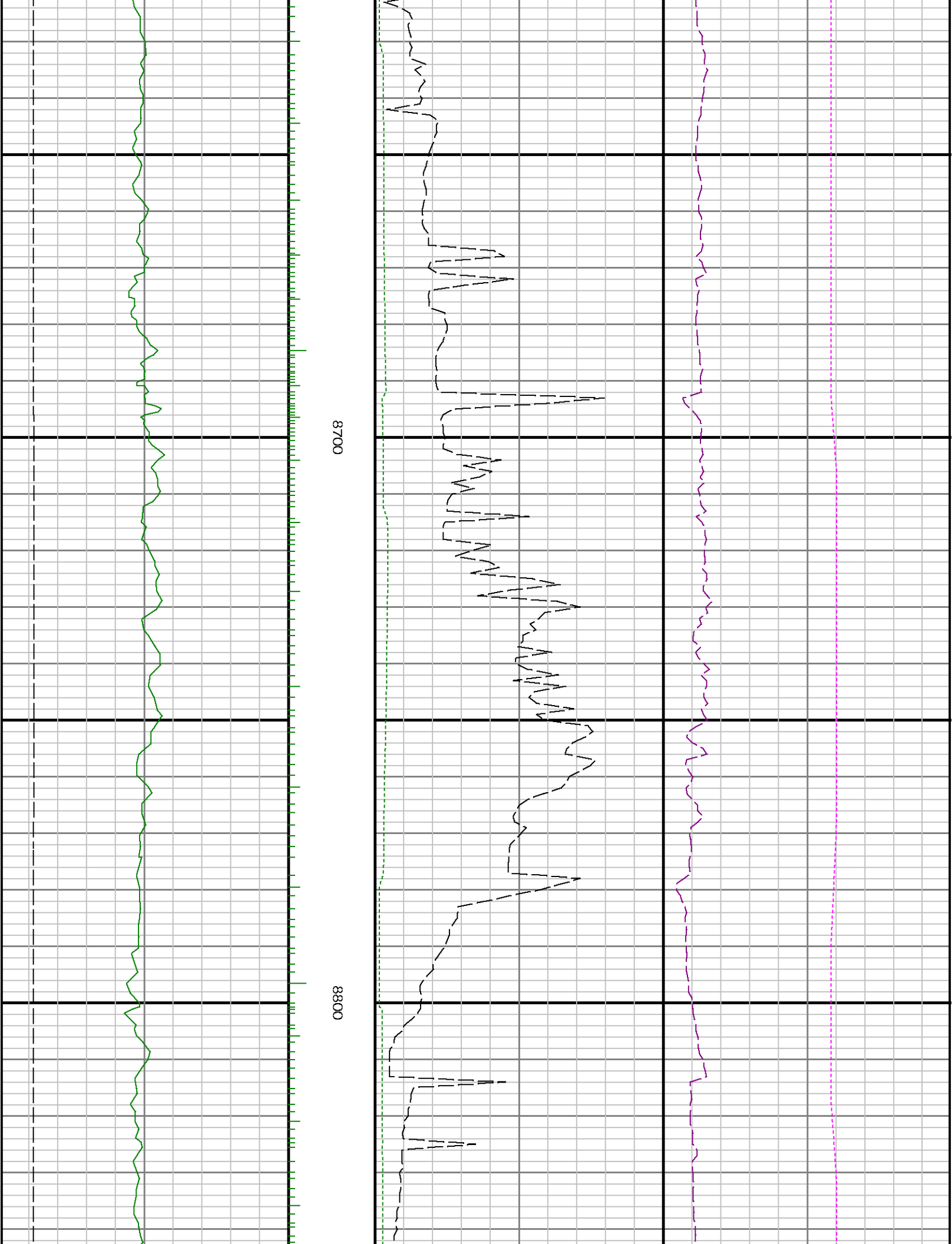


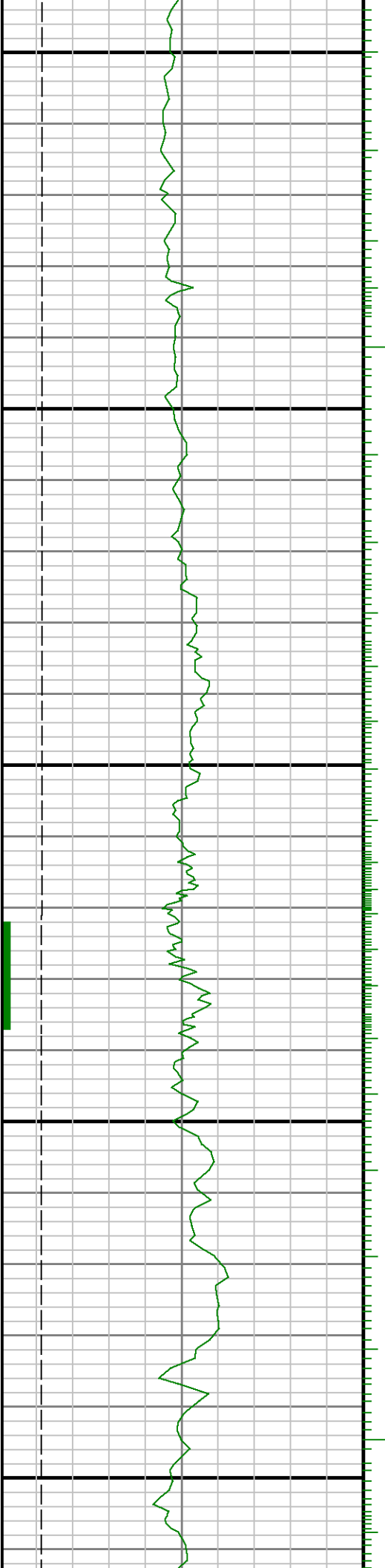






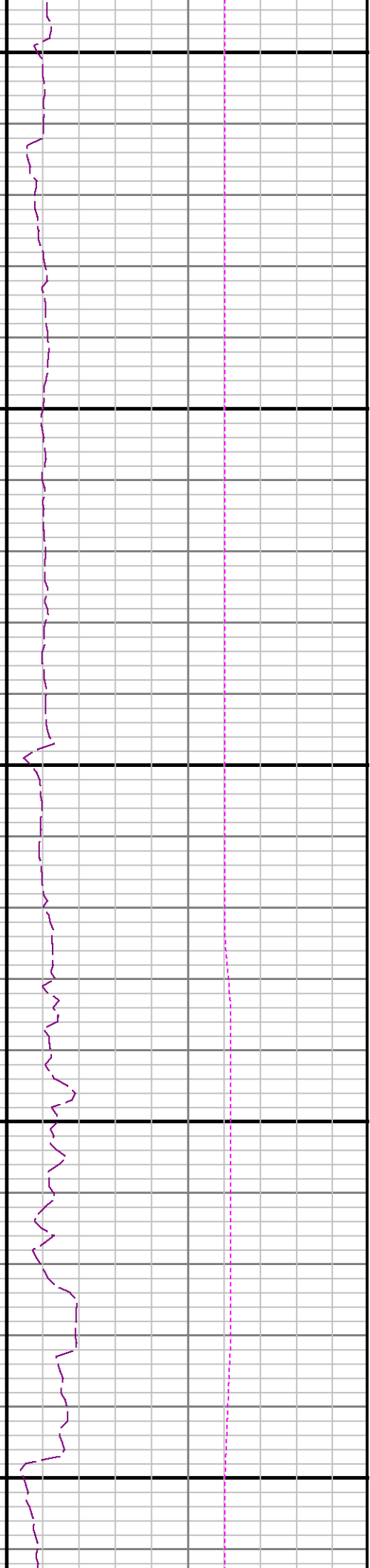
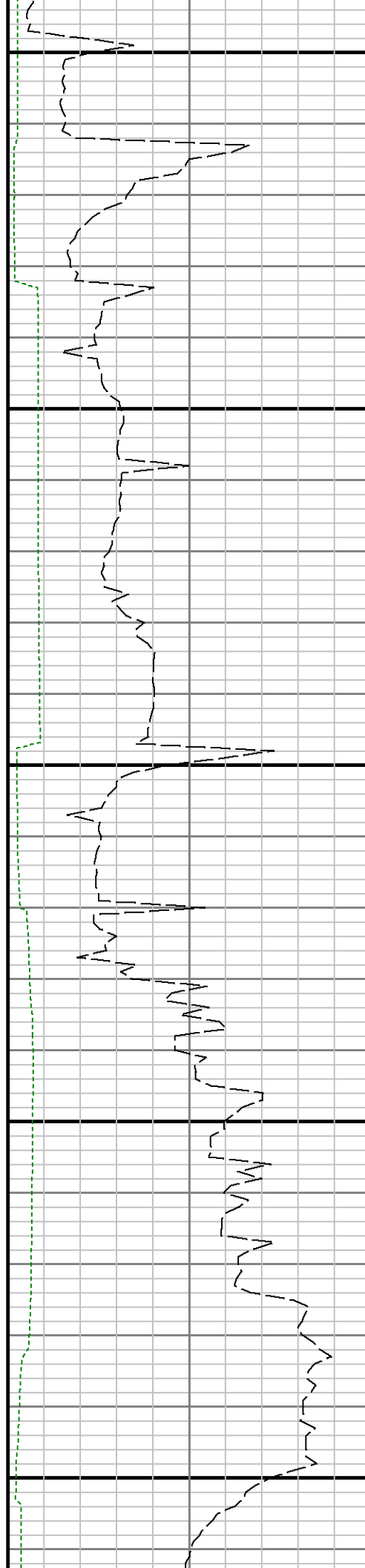


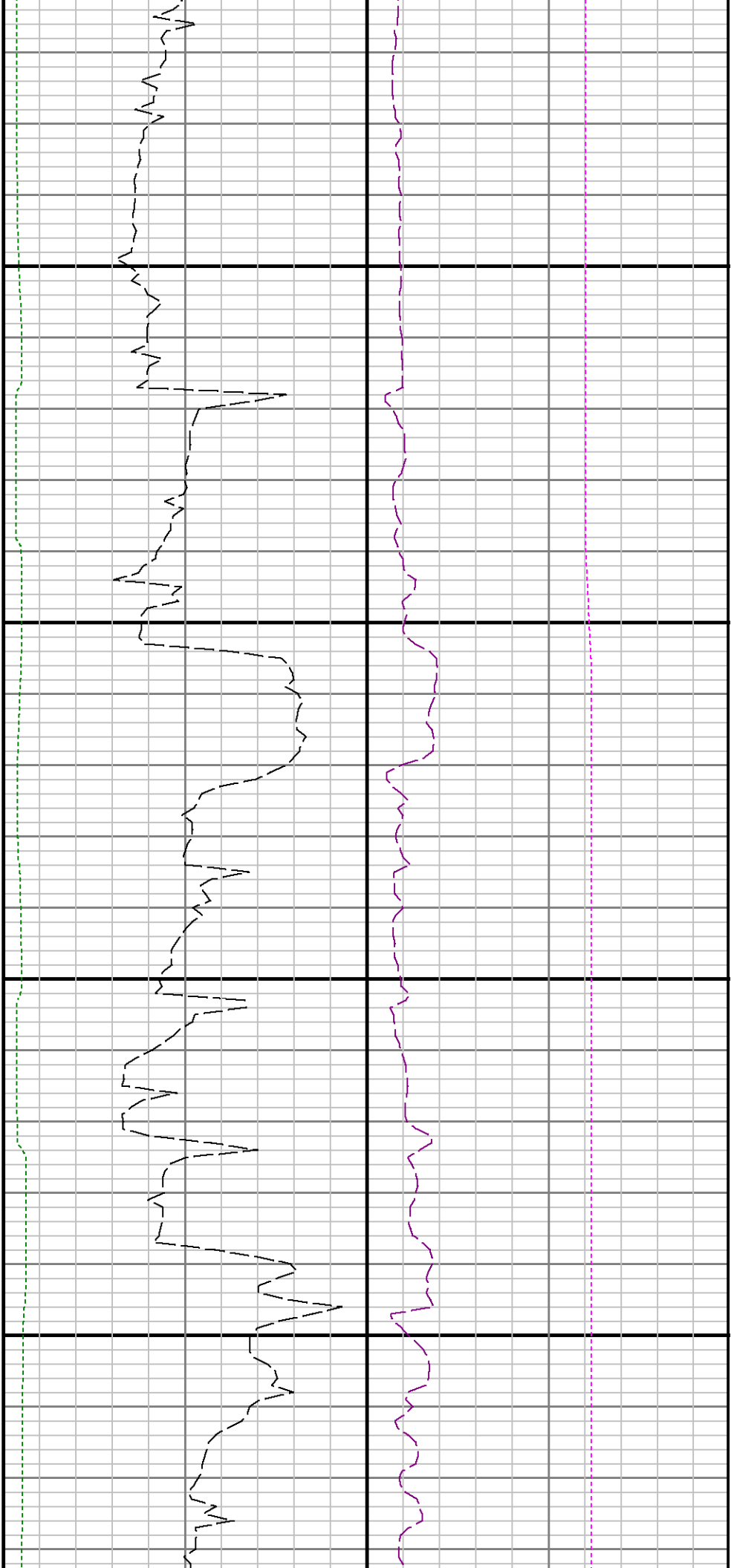




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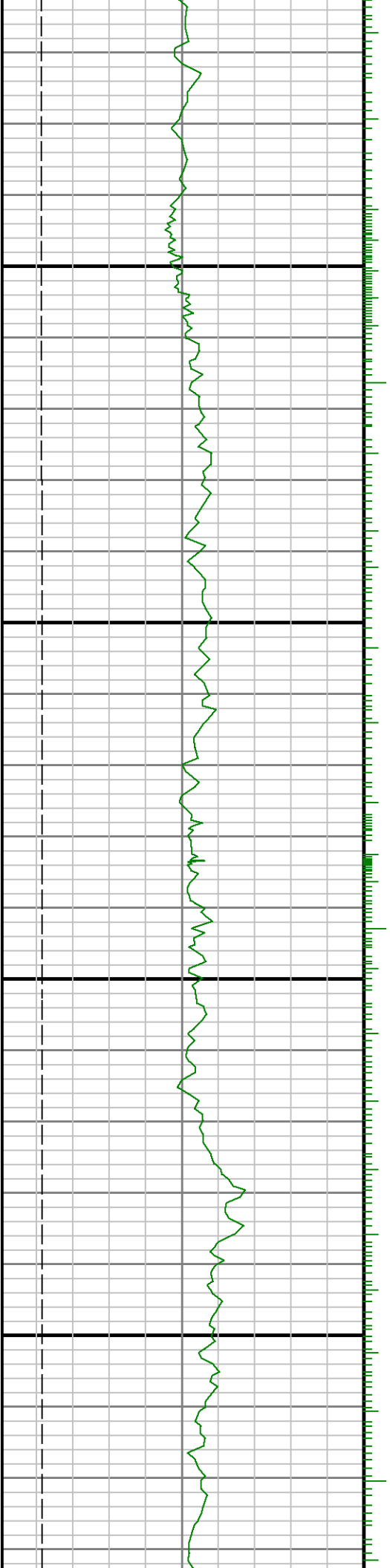
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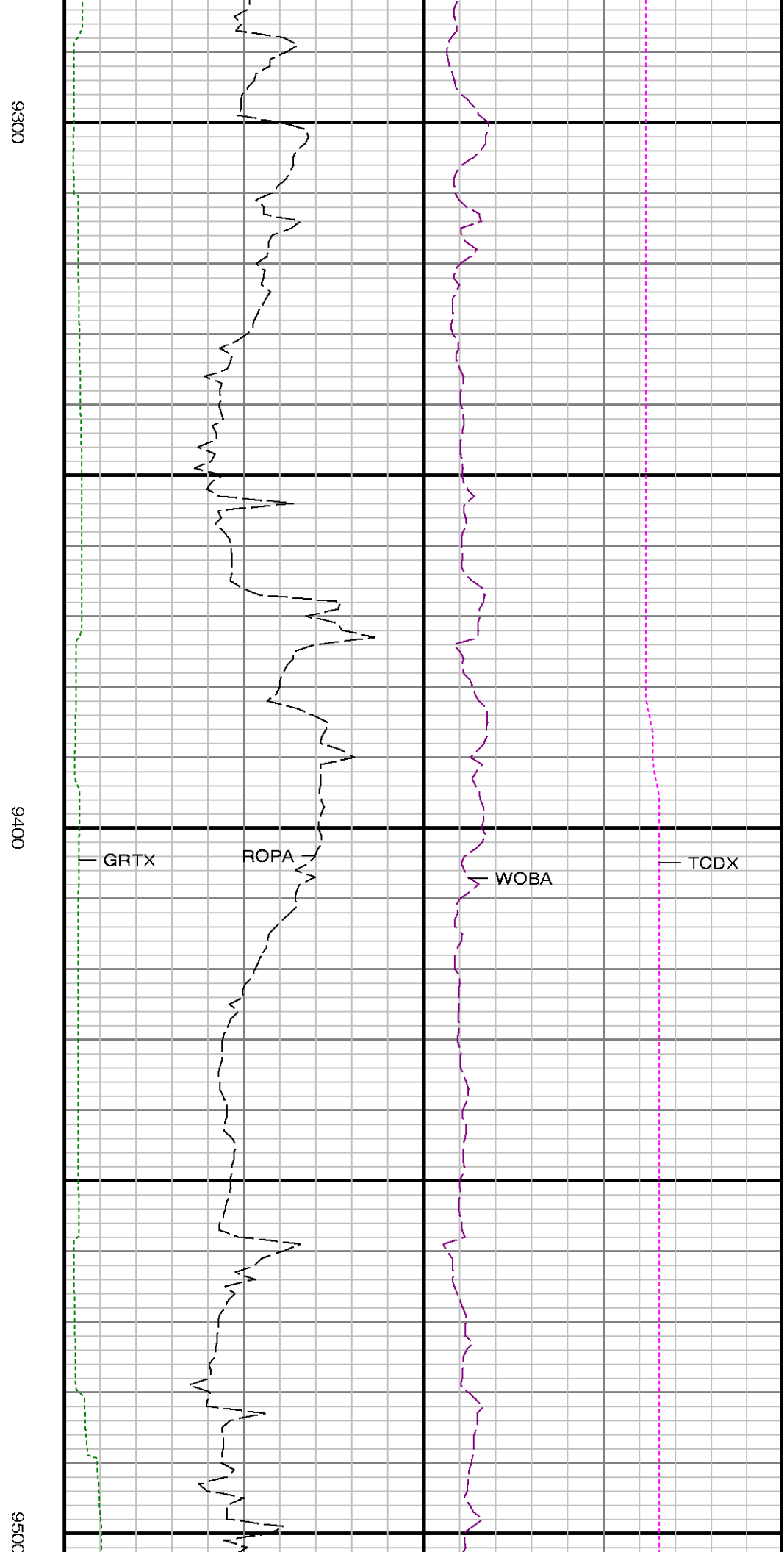
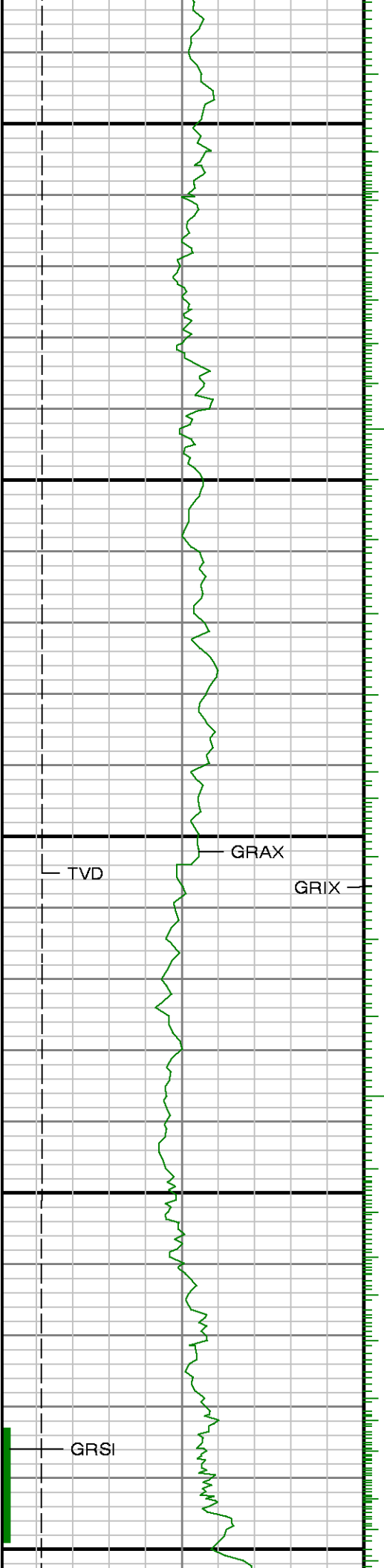


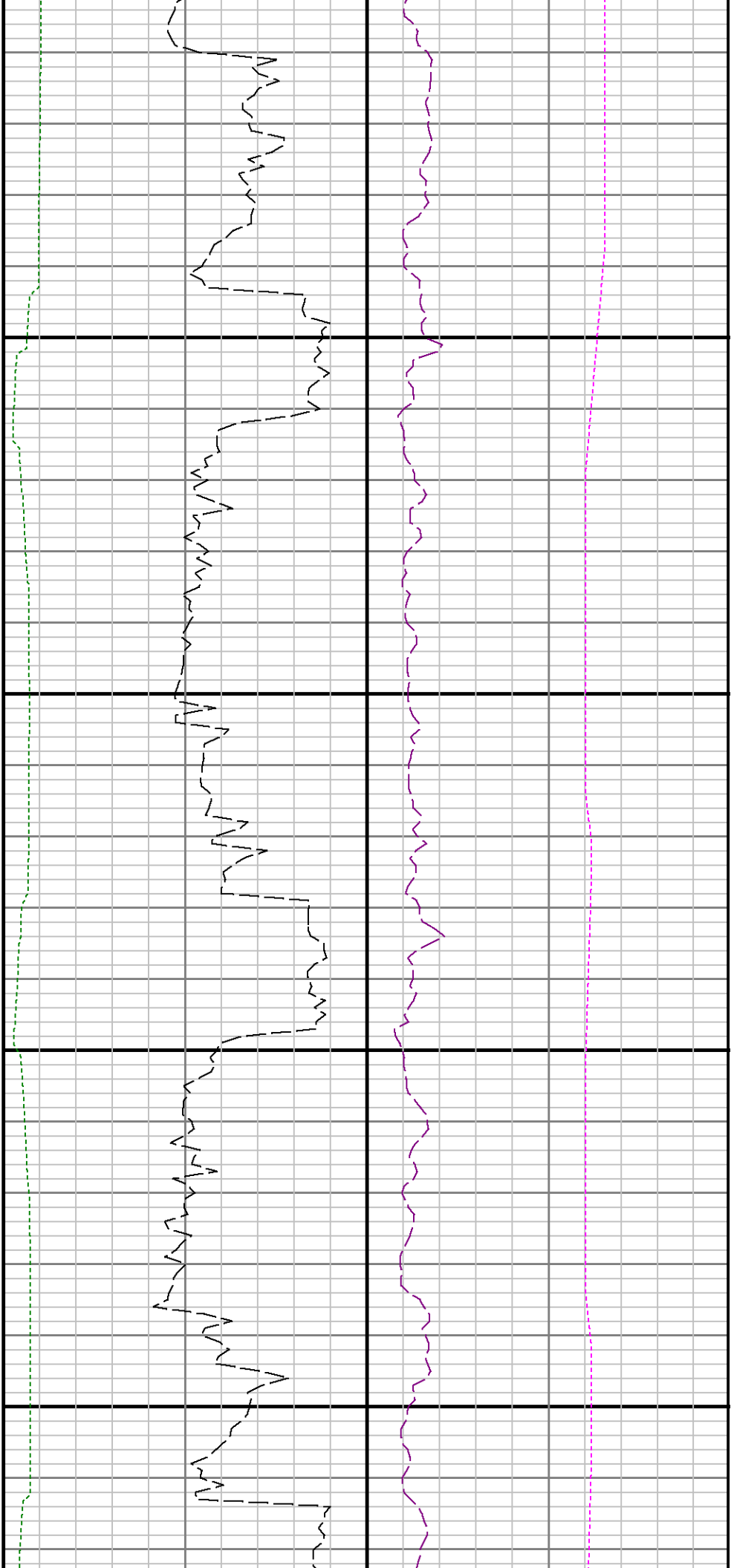
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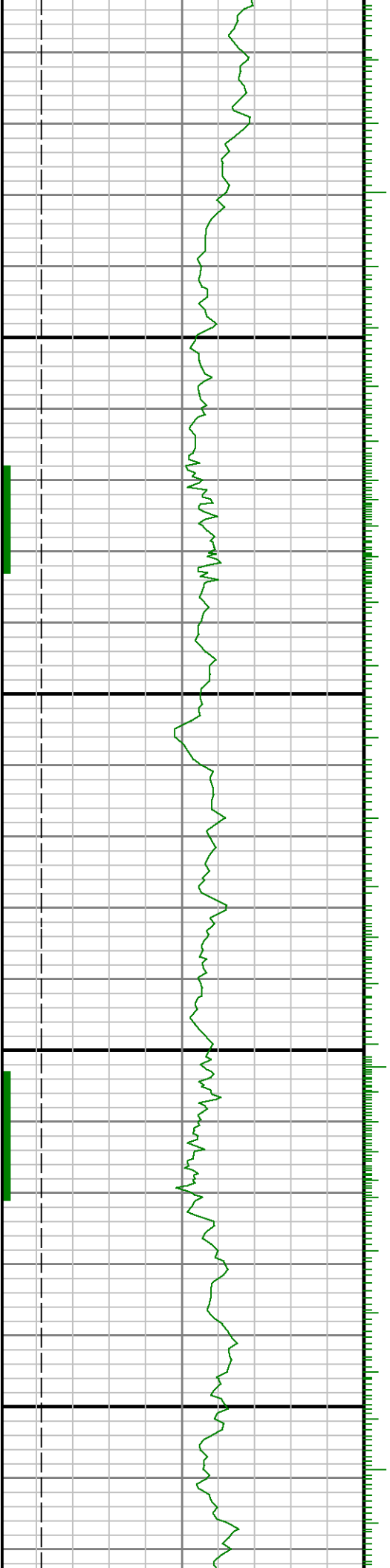


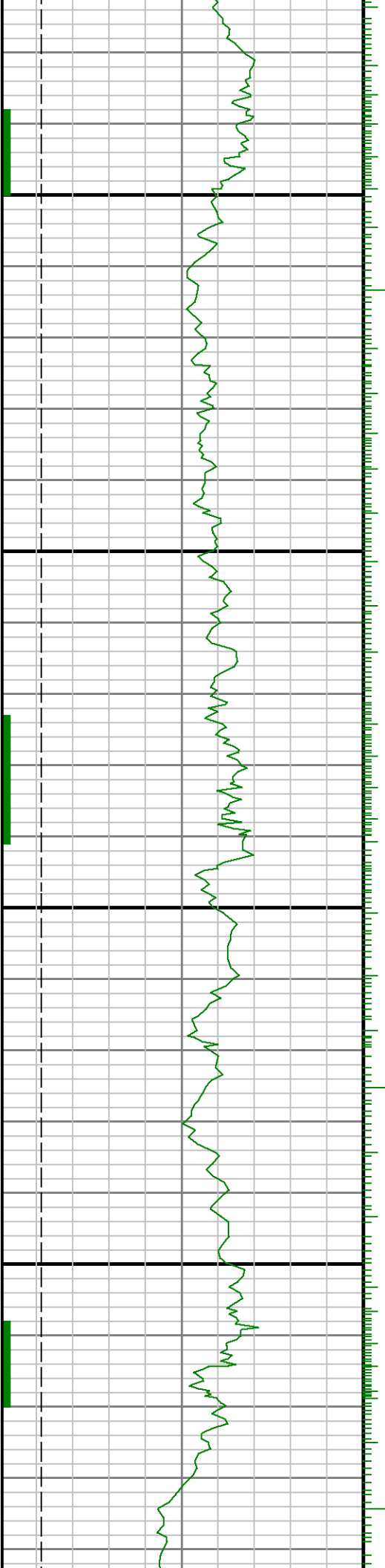




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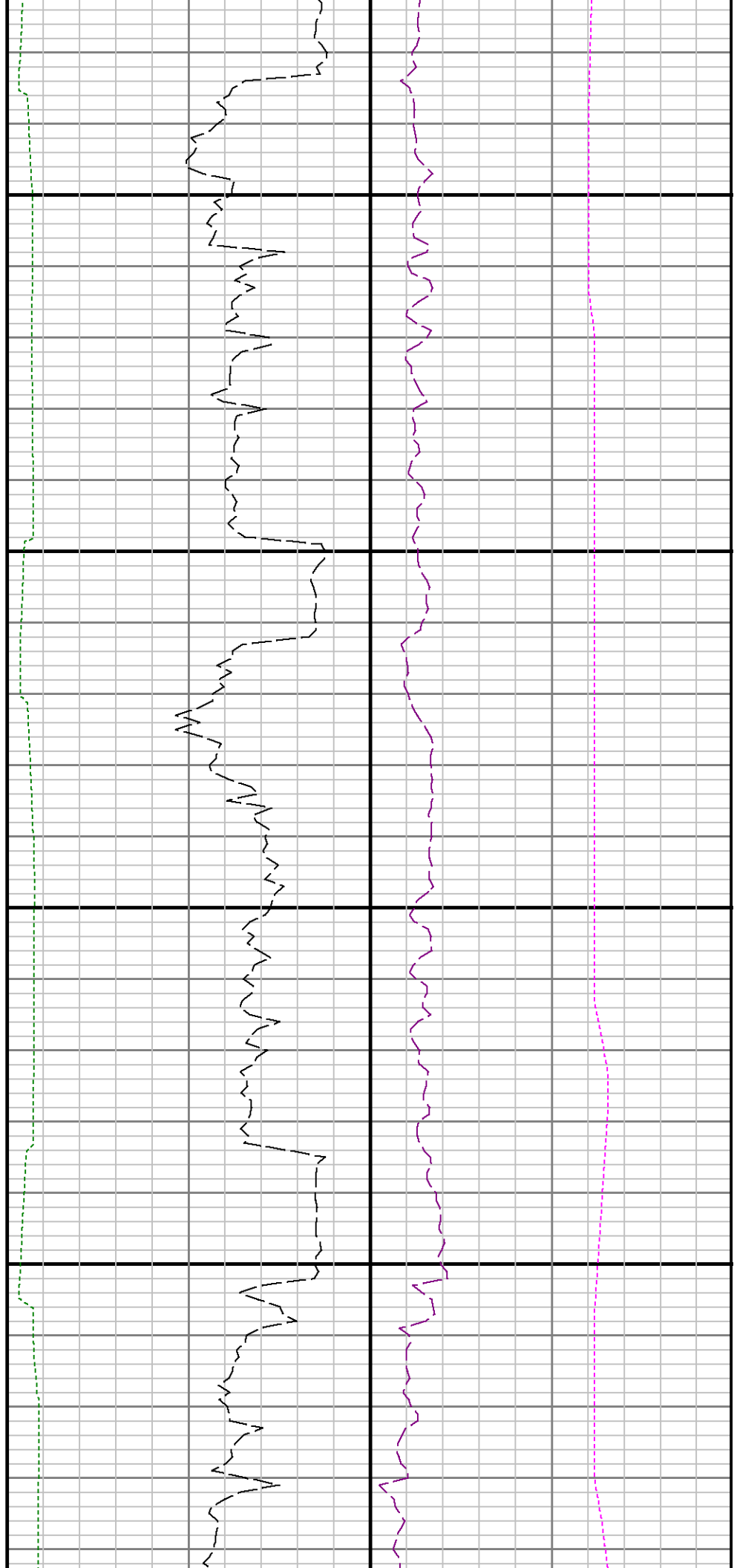
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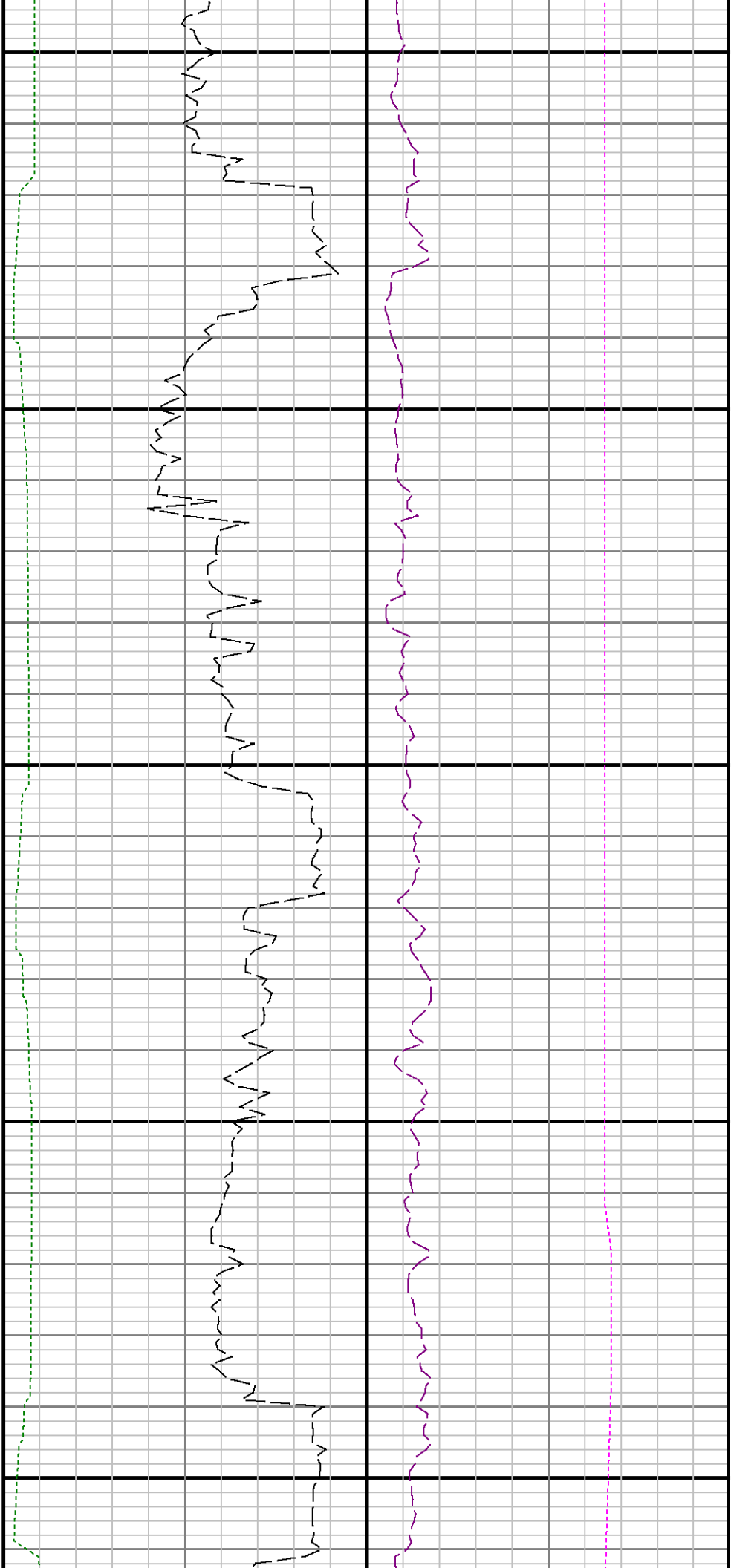




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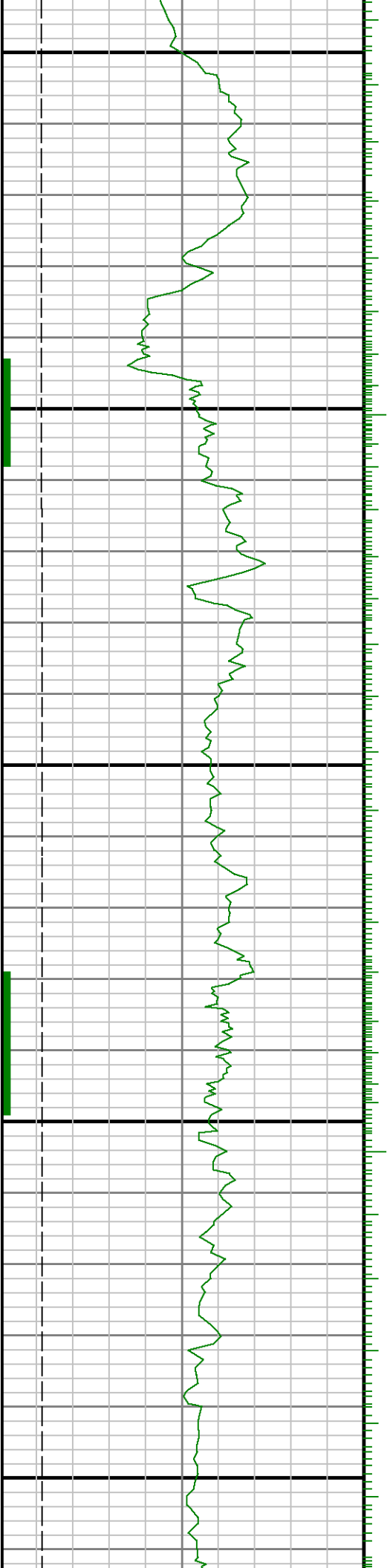
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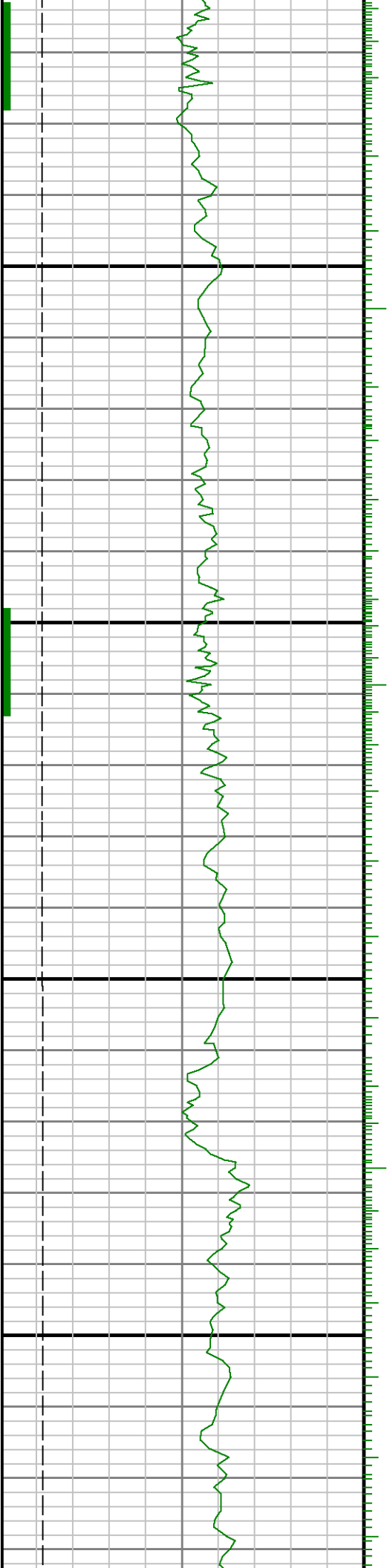
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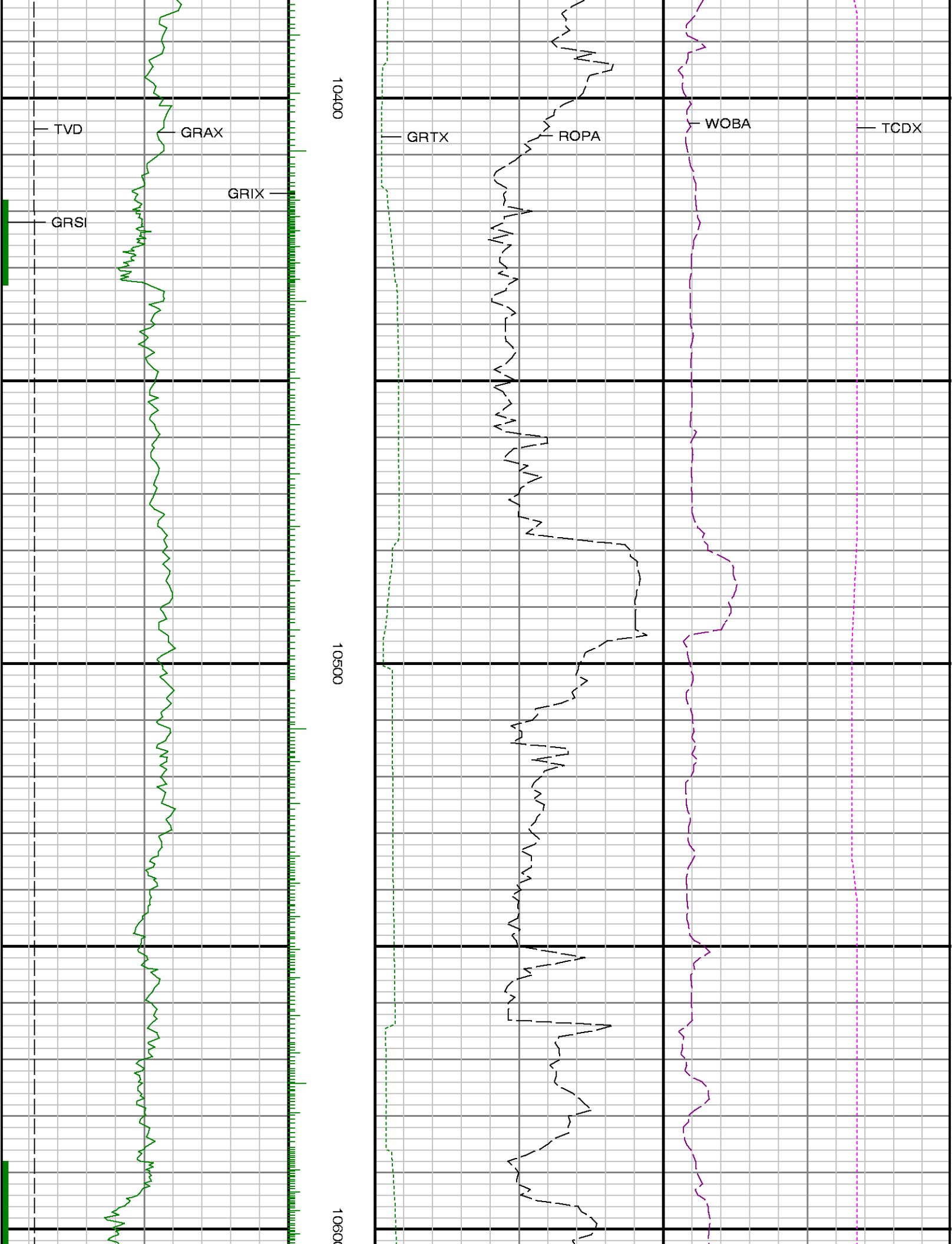


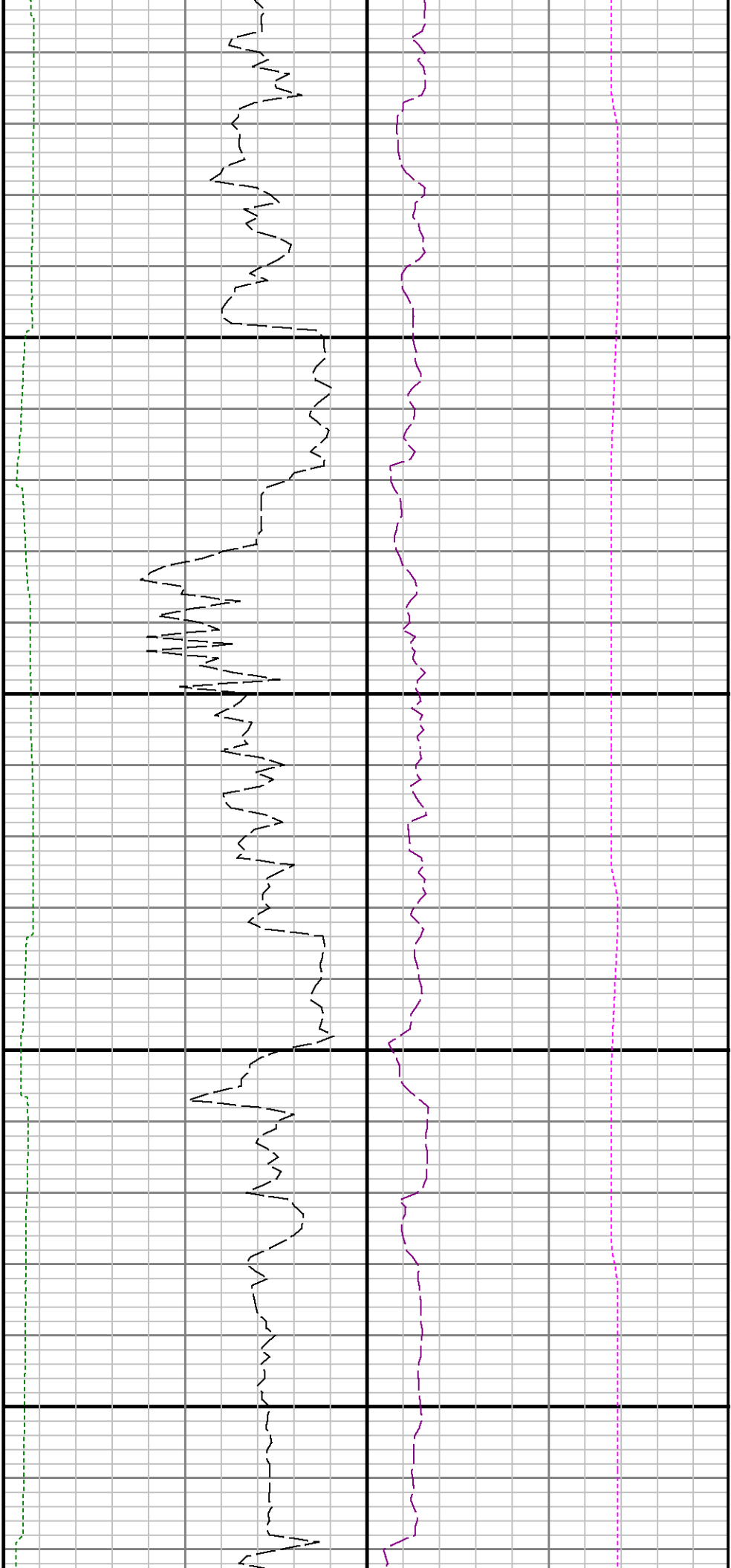


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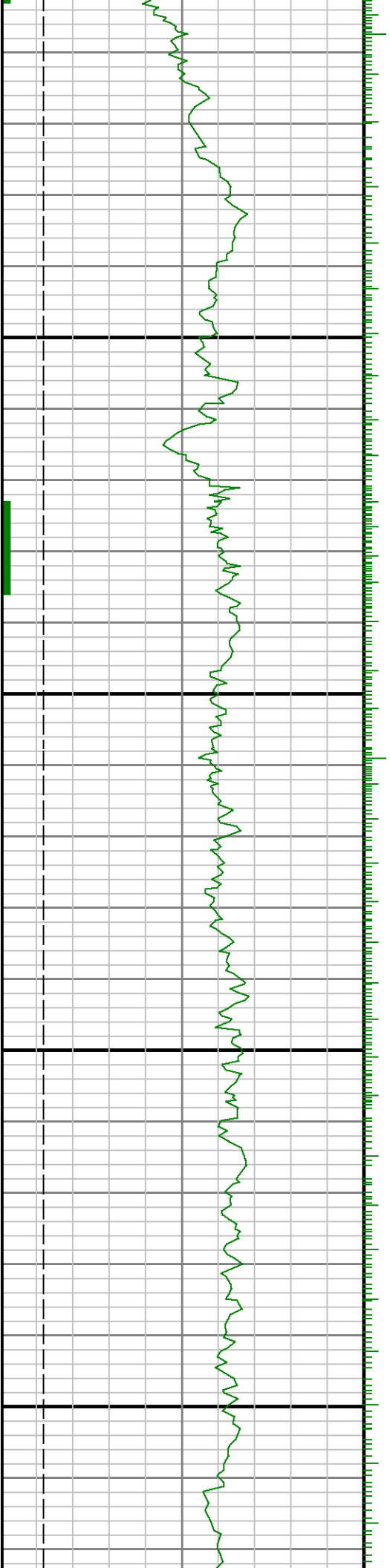


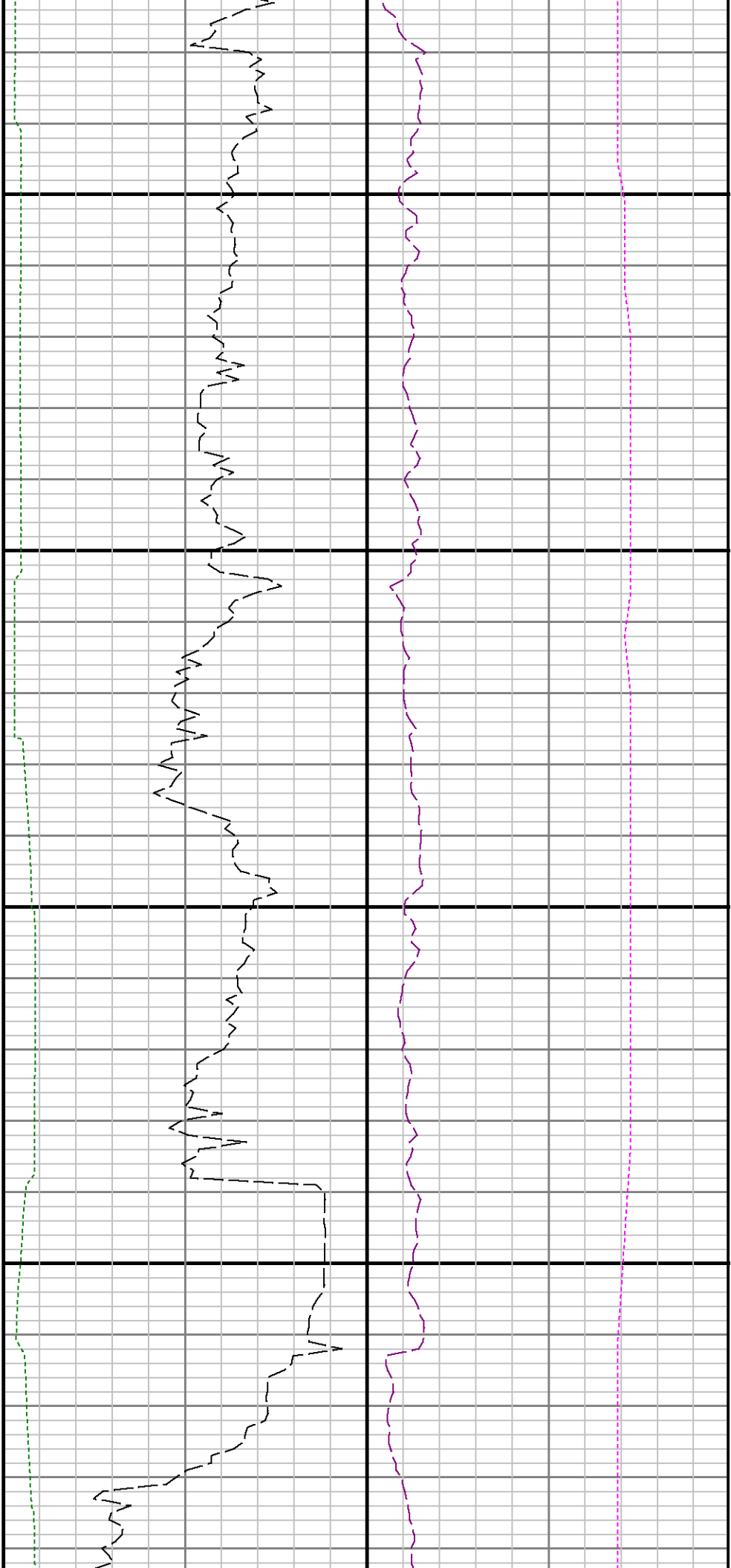




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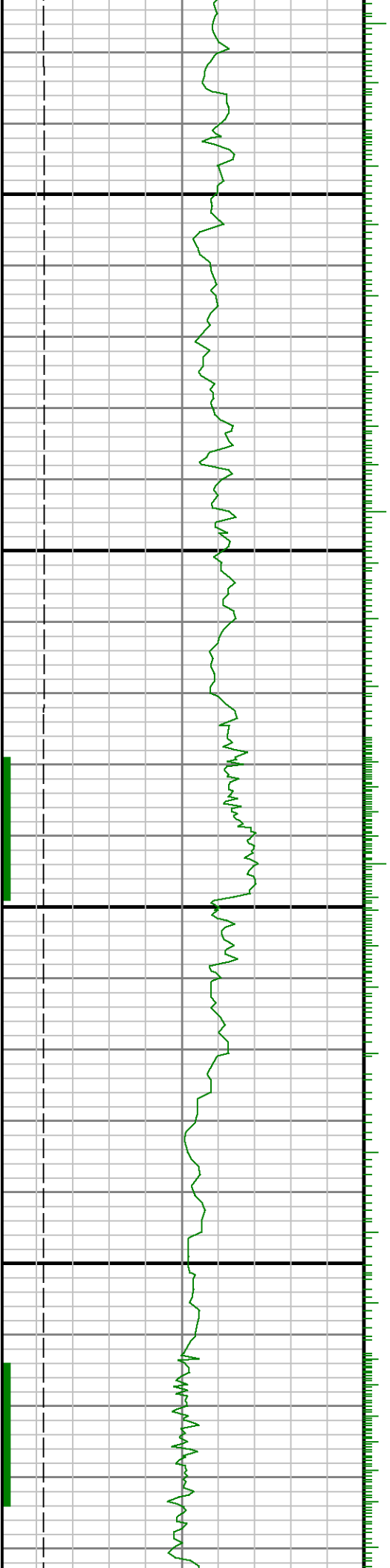
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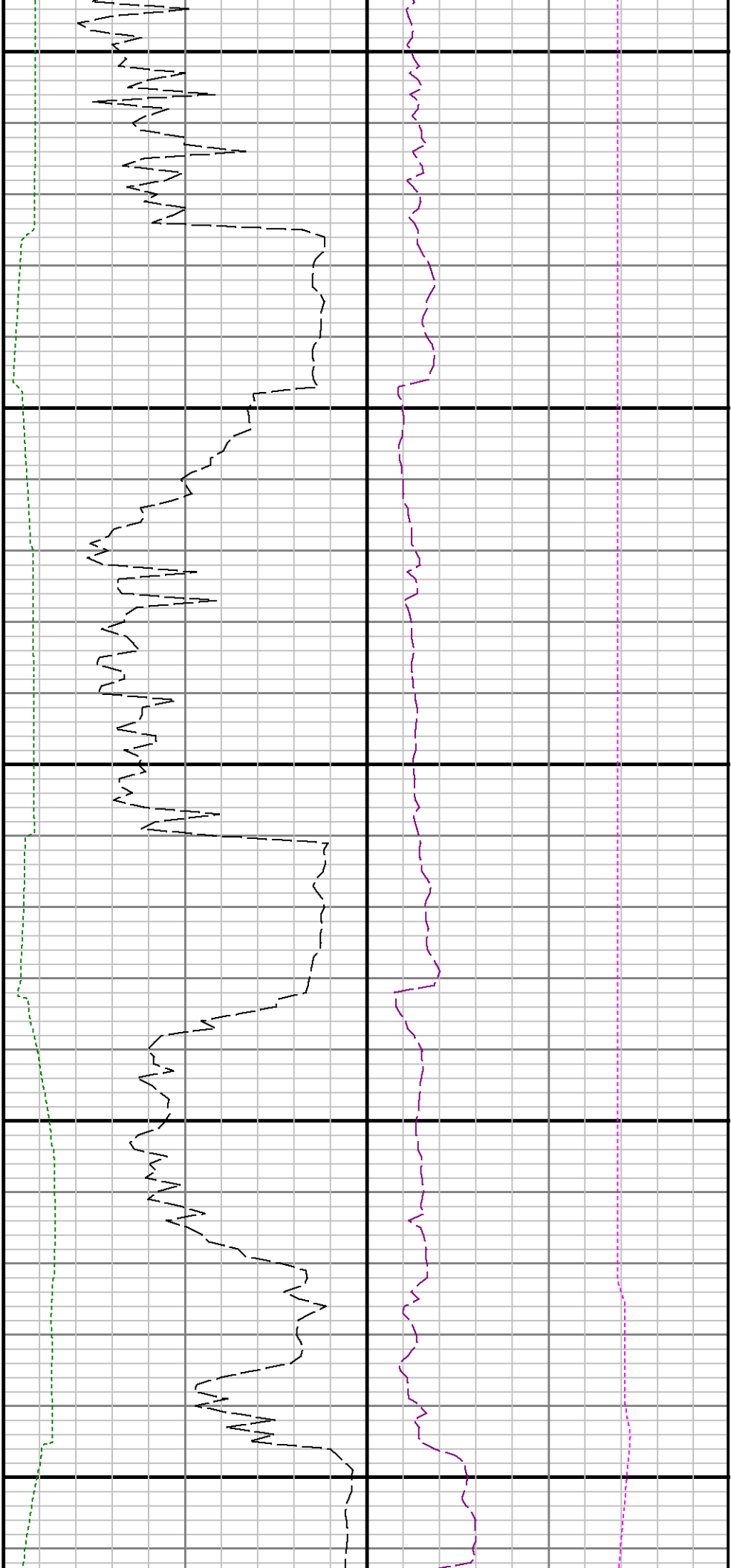


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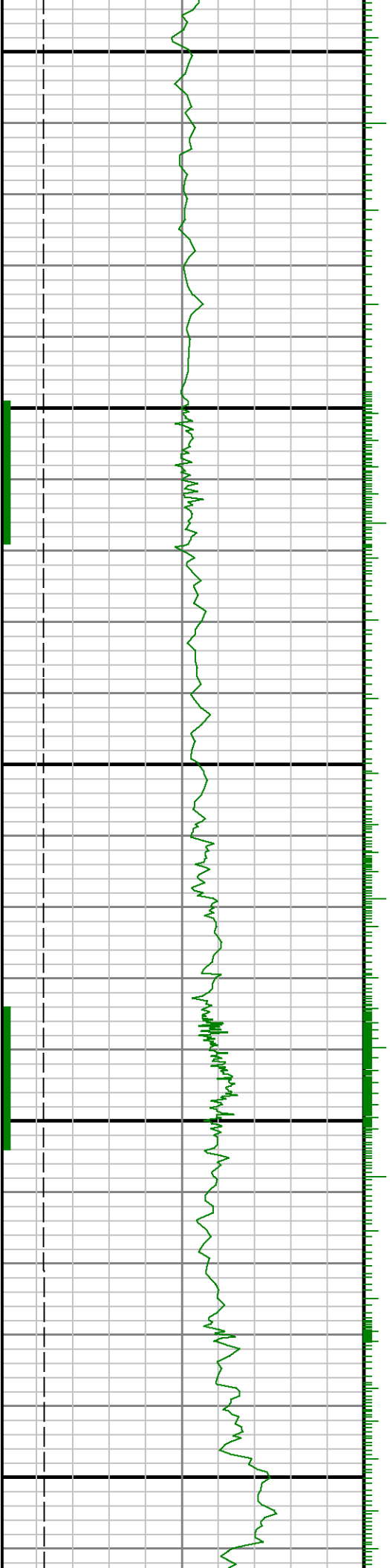


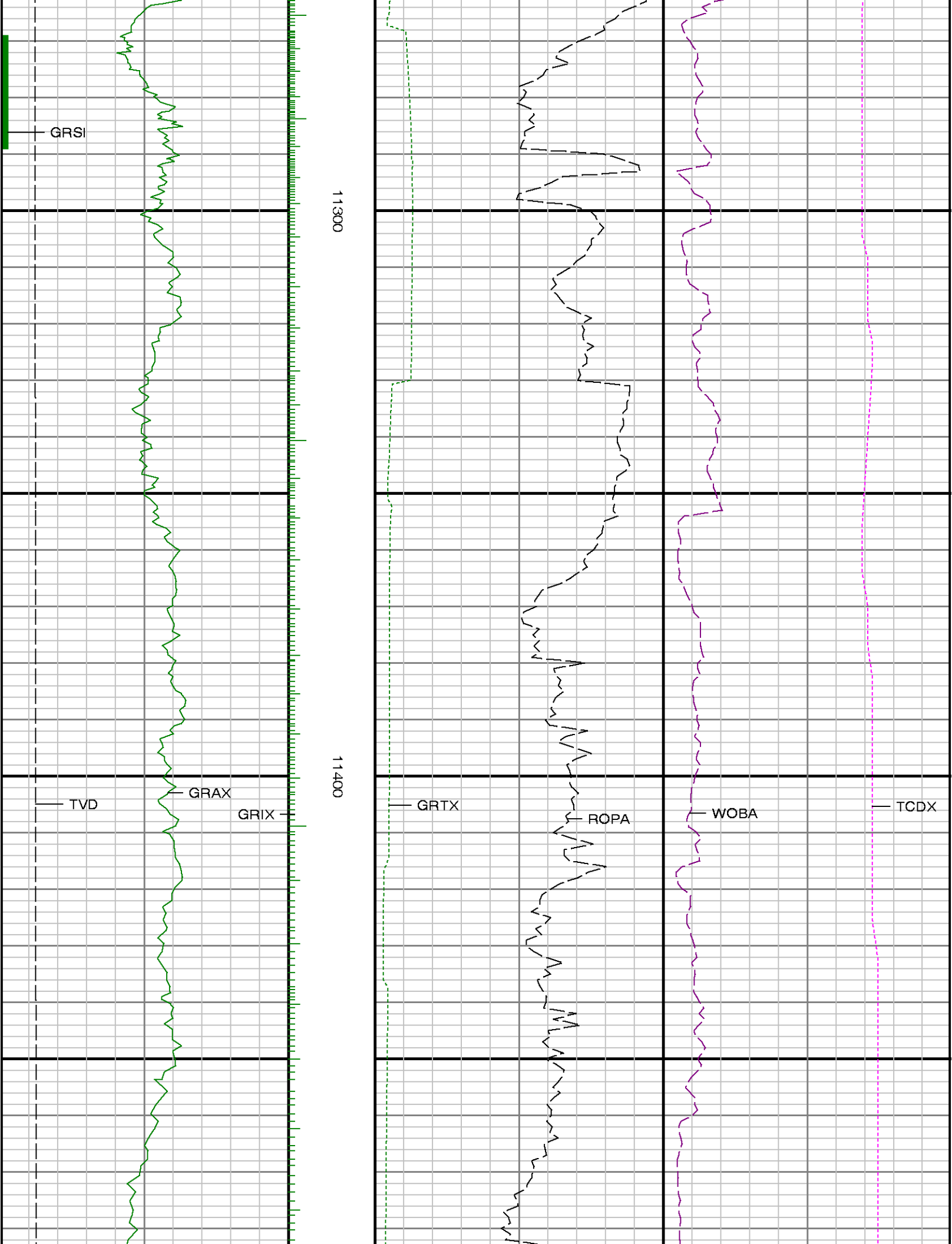


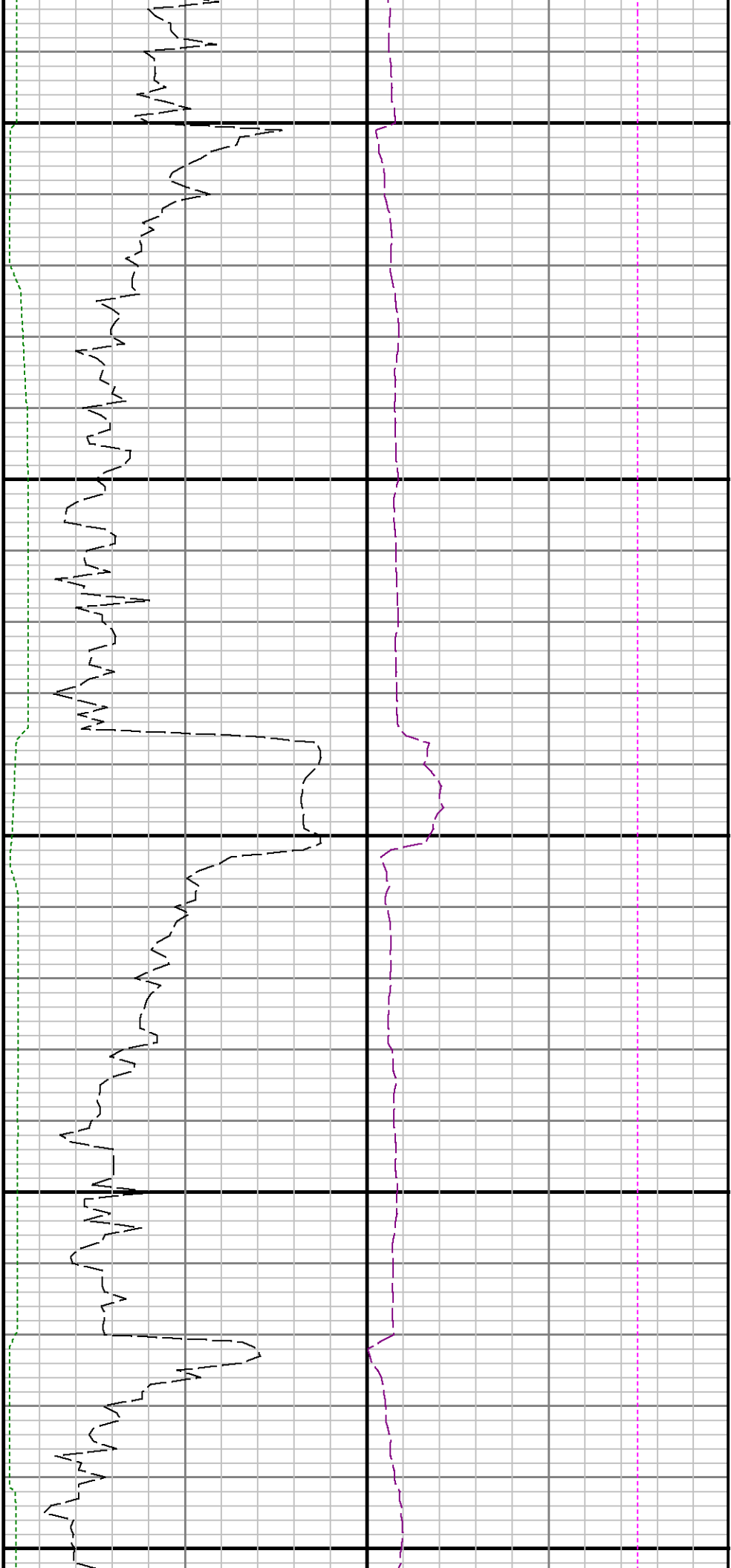


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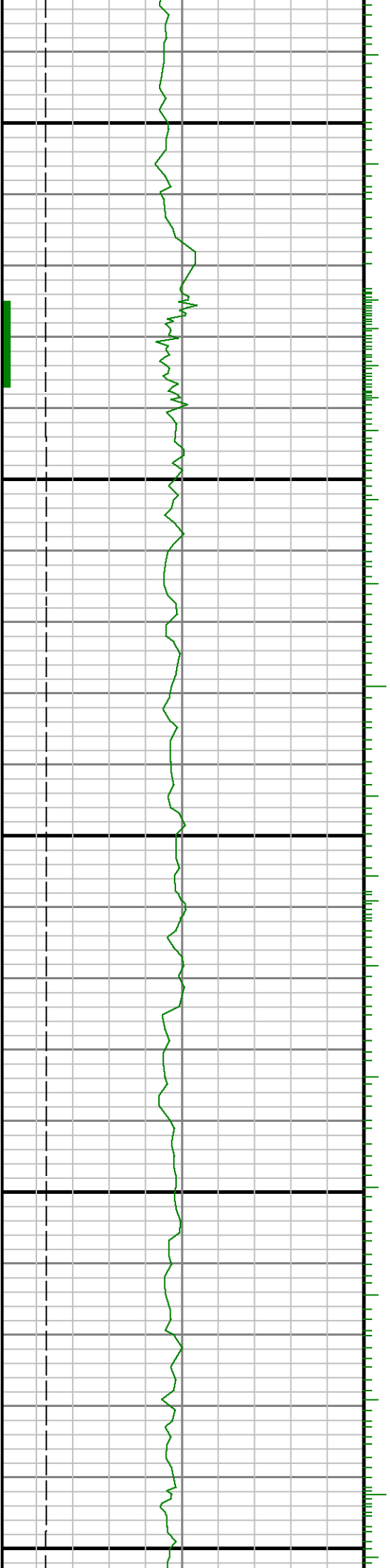




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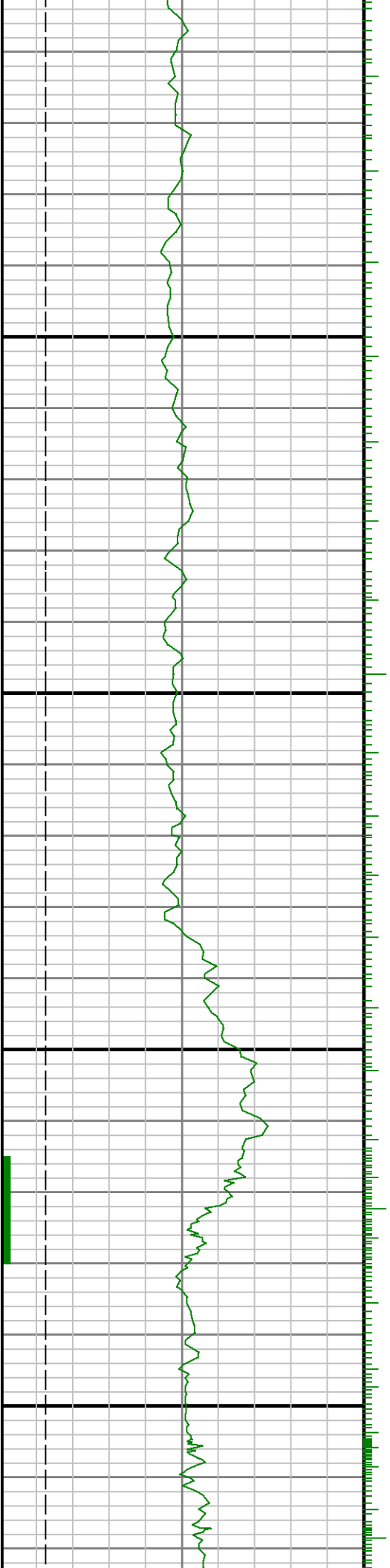
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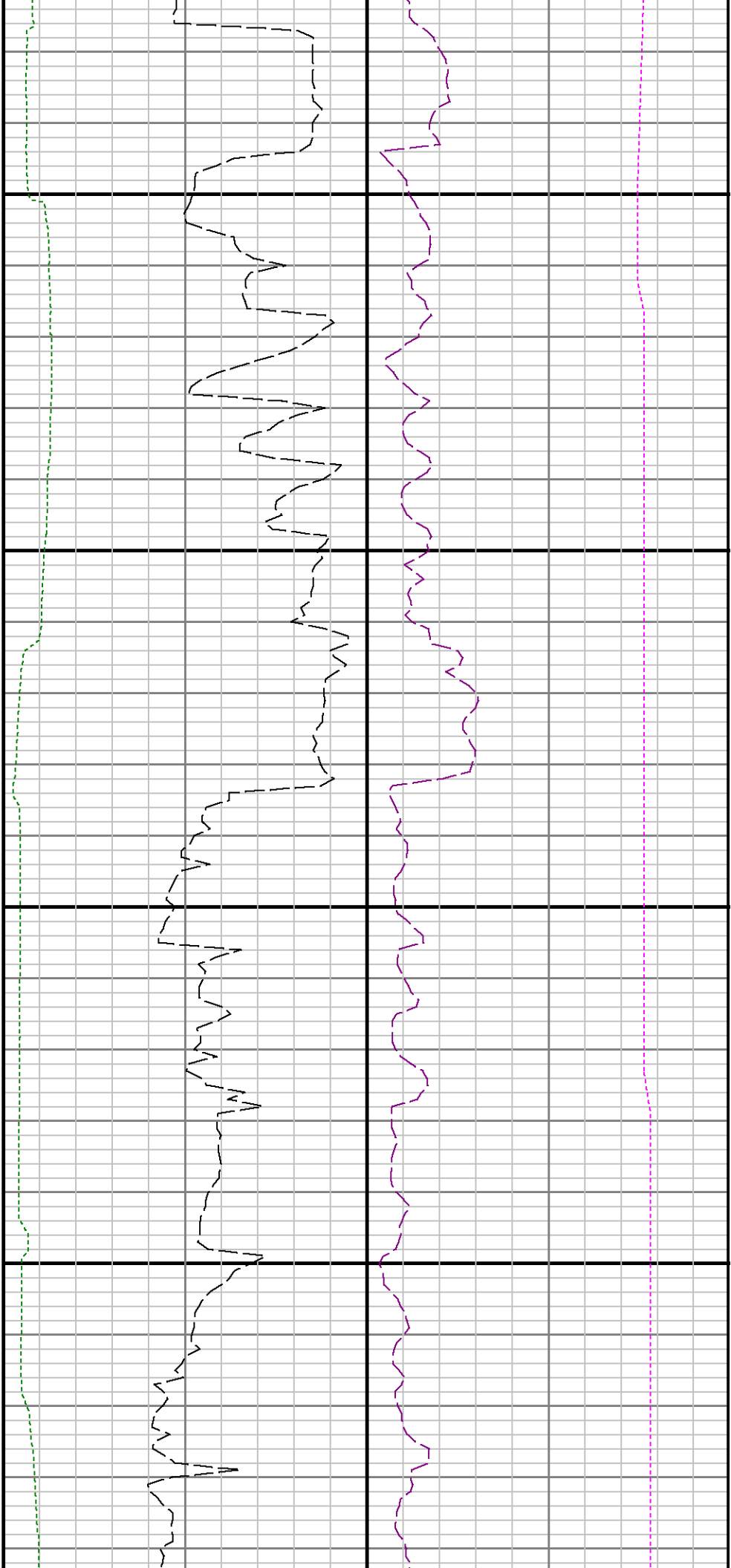
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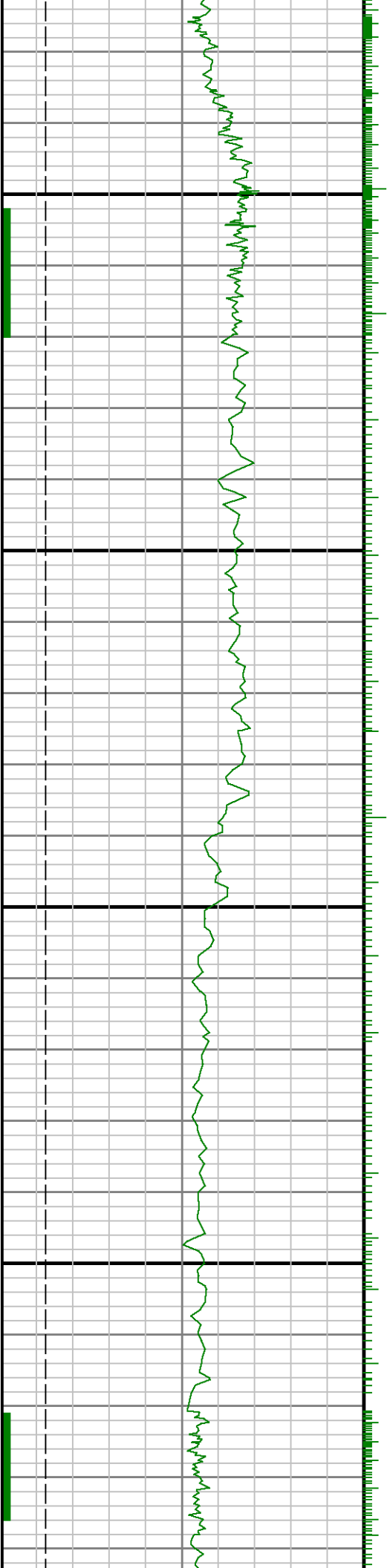
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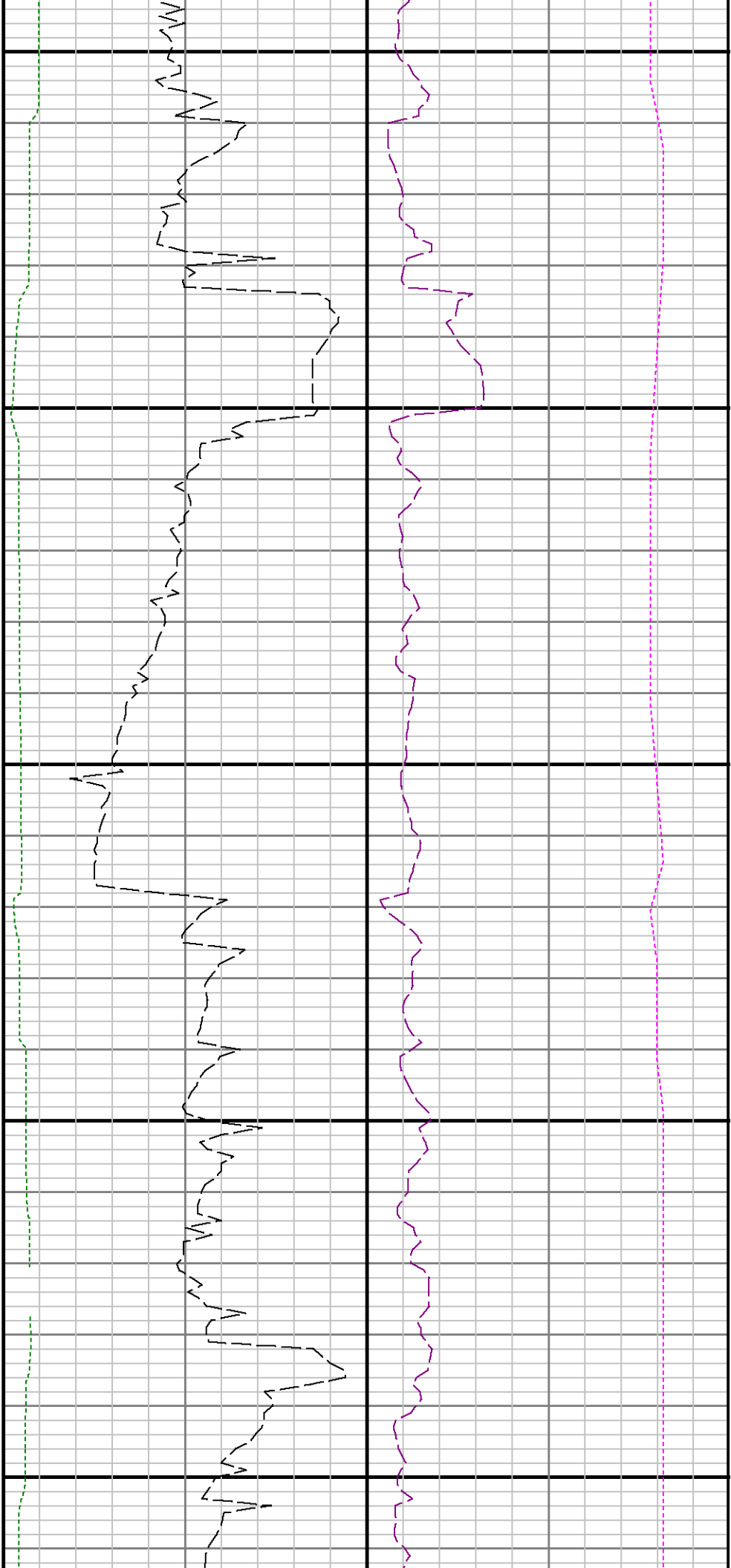




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12300

