



# BAKER HUGHES

## Natural Formation Evaluation Gamma Ray

Real Time Log

Scale:

**1:240 MD**

Depth Reference:

**Driller's Depth**

Status:

**Final Print**

**County:**

**State:** **Colorado**

Surface Location:

Latitude:

Longitude:

Azi Reference North:

Total Magnetic Field Strength:

Mag to Reference North Correction:

Dip Angle: (deg)

66.78

52.782

8.59 E

N/A

4980.00 ft

KB:

DF:

VSS

4964.00 ft

N/A

4964.00 ft

GL:

Date From:

2015-07-20

Top: (ft)

6400.00

Latitude:

SEC: 12

Longitude:

TWN: 5N

Azi Reference North:

True

Dip Angle: (deg)

66.78

N/A

Directional

VSS

Date To:

2015-07-22

Bottom: (ft)

13560.00

Latitude:

RGE: 68W

Longitude:

GL:

KB:

DF:

4980.00 ft

N/A

4964.00 ft

Spud Date:

2015-07-14

Latitude:

Dates

Ground Level

Rig Floor

Above P.D.

Elevation:

4964.00 ft

Latitude:

16.00 ft

Longitude:

### Borehole Record

### Casing Record

### Deviation Record

Hole Size (in)

From (ft)

To (ft)

Size (in)

Weight (lb/ft)

From (ft)

To (ft)

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Hole Size (in)

Interval (ft)

Inc | Az (Start)

Inc | Az (End)

8.500

1169.28

12.09

93.16

90.09

270.13

### Mud Record

### Deviation Record

### Other

Other

Type

From (ft)

To (ft)

Hole Size (in)

Interval (ft)

Inc | Az (Start)

Inc | Az (End)

8.500

1169.28

12.09

93.16

90.09

270.13

Rig:

Xtreme

23

Other

Software Version

1.0.6955.1

Acquisition System

Baker Hughes Cadence

Plot Studio

part of Baker Hughes. Unless other contract terms have been agreed to by the parties, each party's liabilities and  
qdnkicvkqpu"ujcnn"dg"iqxgtpgf"d{"Dcmgt"Jwijgu"Kpeqtrqtcvgfou"Yqtnfykfg"Vgtou"cpf"Eqpfkvkqpu0\$""

### Log Run Summary

Run No.	Bit Run No.	Bit Size (in)	Bit Type	Bit Gauge Length (in)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Hours (h)
						Top (ft)	Bottom (ft)	From (ft)	To (ft)	Start Logging	End Logging	
1	1	8.500	PDC	2.50	Motor	1809.16	13500.44	1869.00	13560.28	2015-07-19 10:57	2015-07-22 04:42	59.77

### Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Andrew Clancy	2015-07-19	2015-07-22	Jason Williams	2015-07-19	2015-07-22			

### Equipment and Service Data

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
1	NaviGamma	10350731	Gamma (single)	7.20	59.84	6.780	2.938
1	NaviGamma	10350731	VSS	10.54	63.18	6.780	2.938
1	NaviGamma	10350731	Directional (mag)	10.54	63.18	6.780	2.938

### Comments

- 1 Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to represent logging data.
- 2 Baker Hughes Run 1 utilized a 6 1/2 inch Navigamma (Directional and Gamma Ray) tool behind an 8 1/2 inch bit and steerable assembly from surface to 1810 feet to 13558 MD (1790.32 to 7081.21 feet TVD).
- 3 A sliding indicator is shown on the left side of the track 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 (ft)	Hole Section (in)	Run No.	Remark
1	7125.70	8.500	1	Logging services began at 6480 feet. No logging data prior to 6480 feet MD (6390.56 TVD) as per client request
2	13537.08	8.500	1	The interval between 12654 feet and 13558 feet MD (7096.65 to 7081.21 feet TVD) was not logged due to gamma failure .

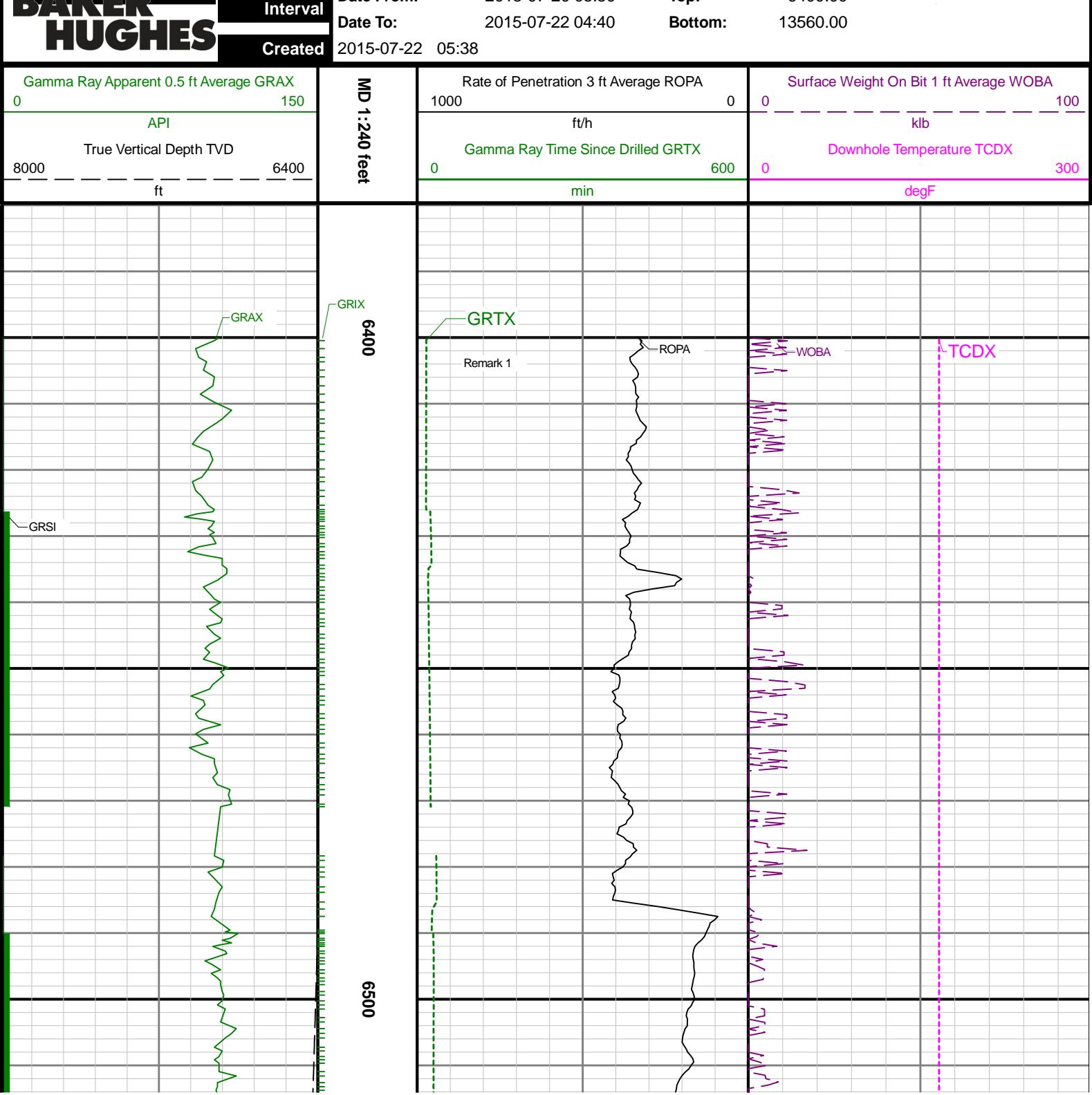


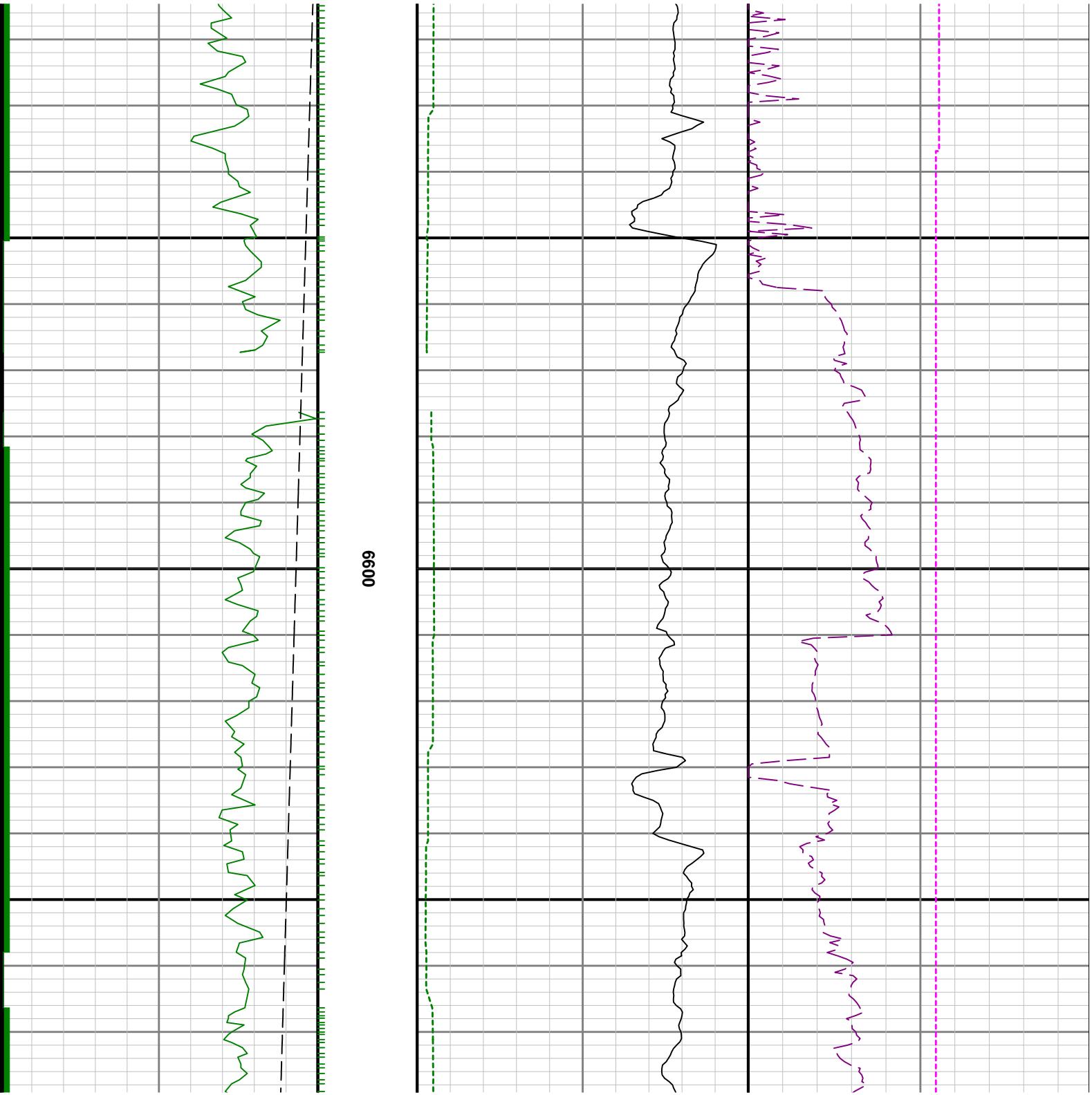
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Well

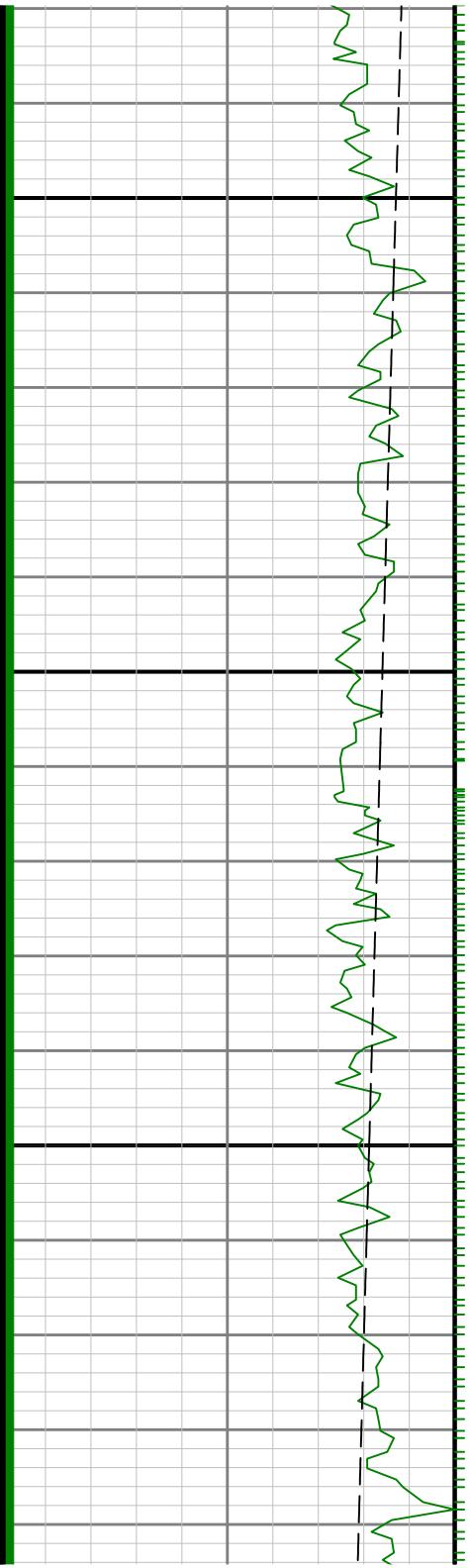
Anadarko  
Miracle 40N-11HZ

Date From: 2015-07-20 05:50

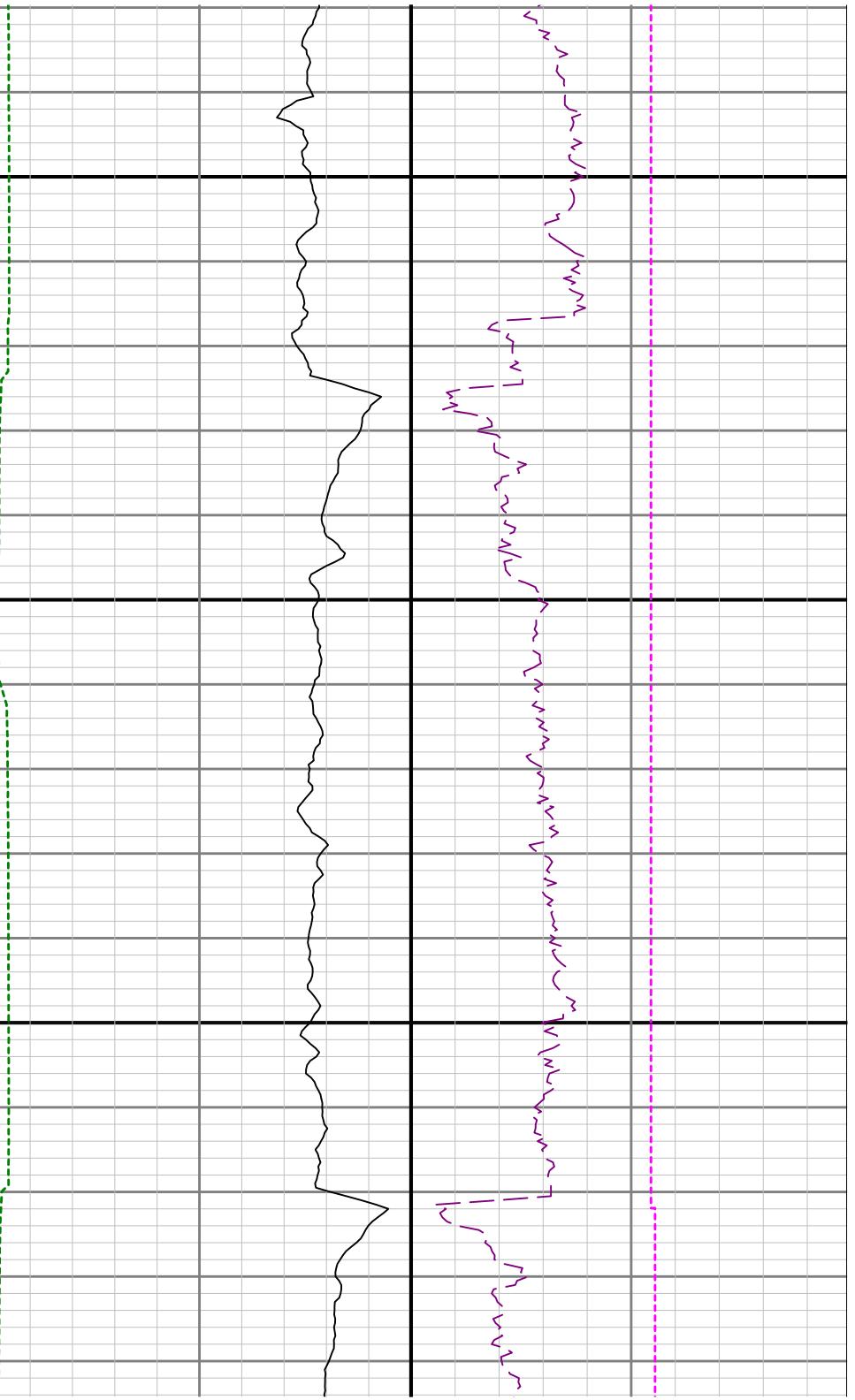
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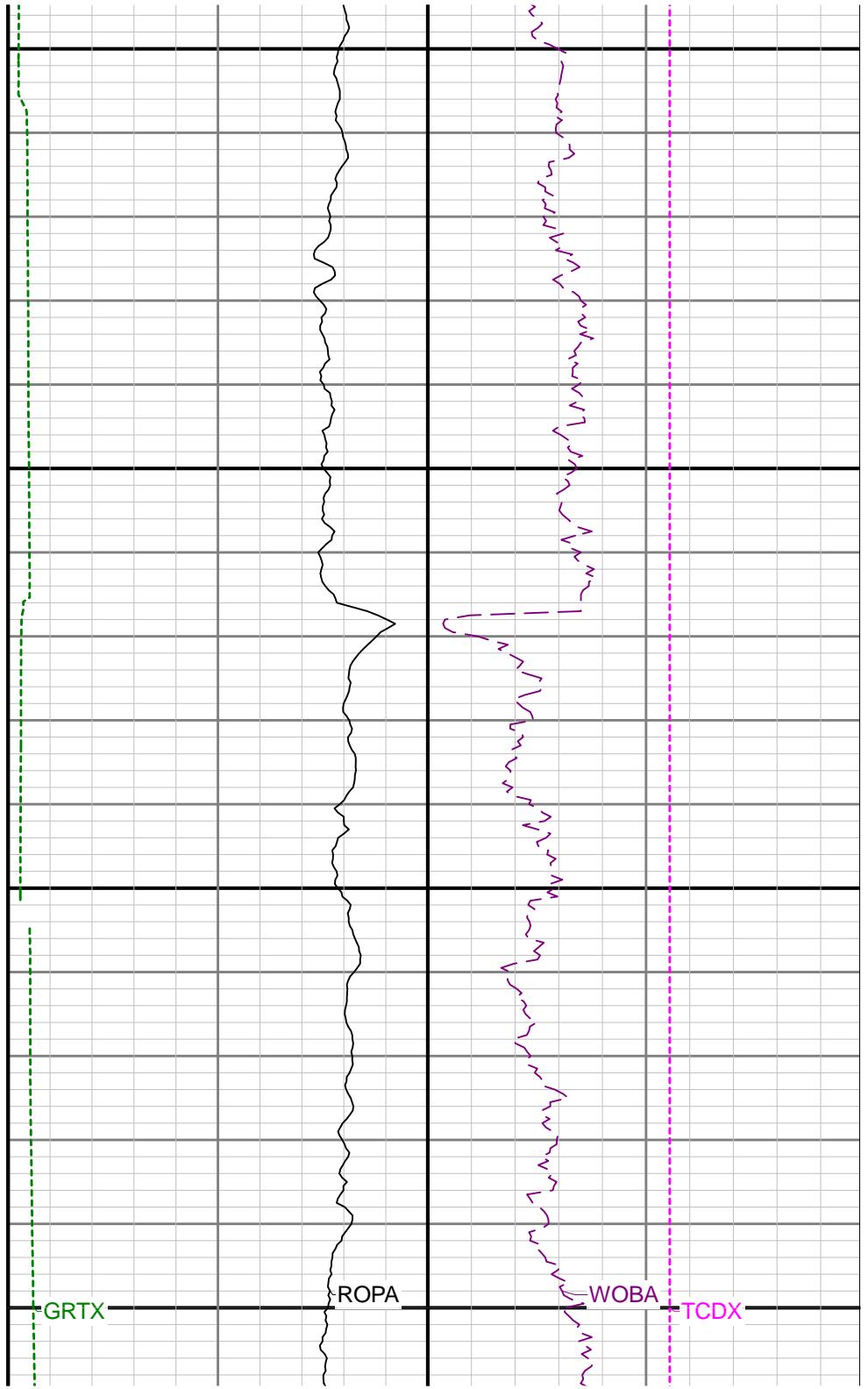
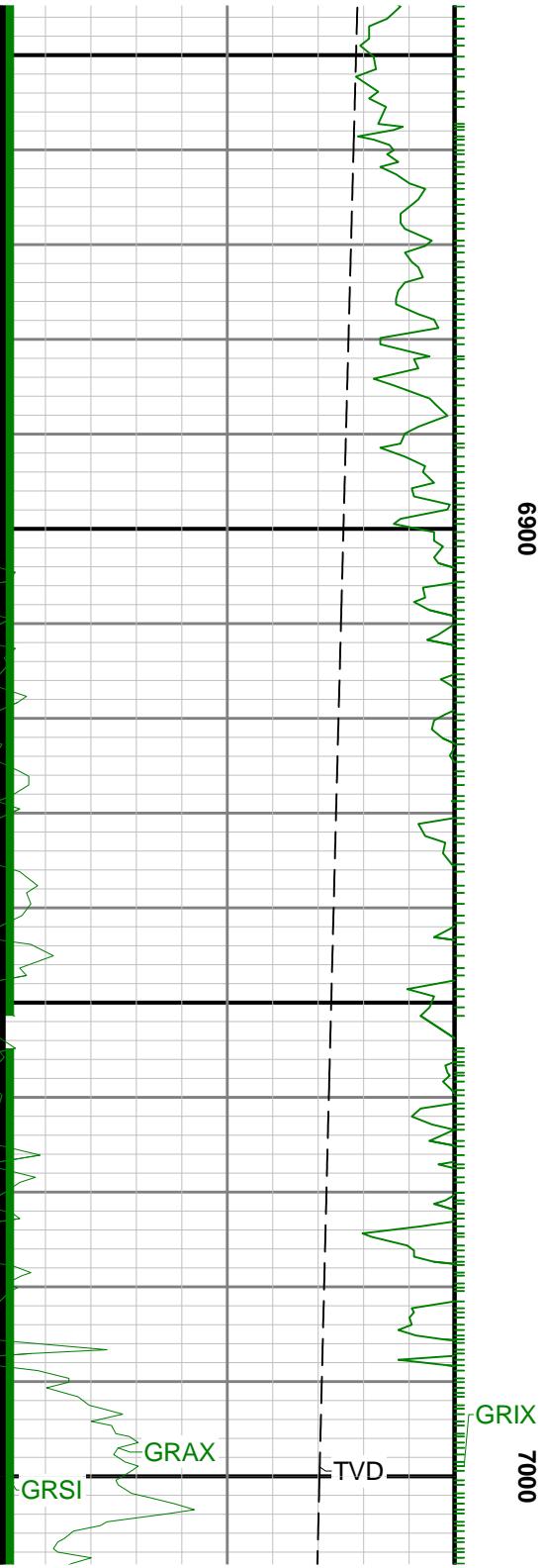


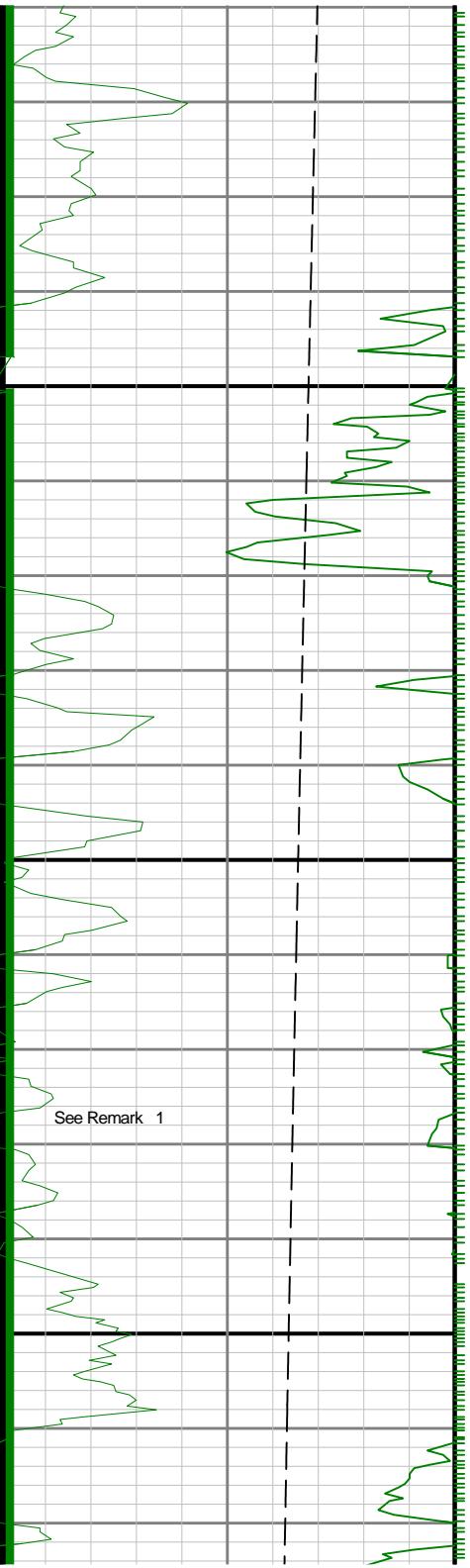


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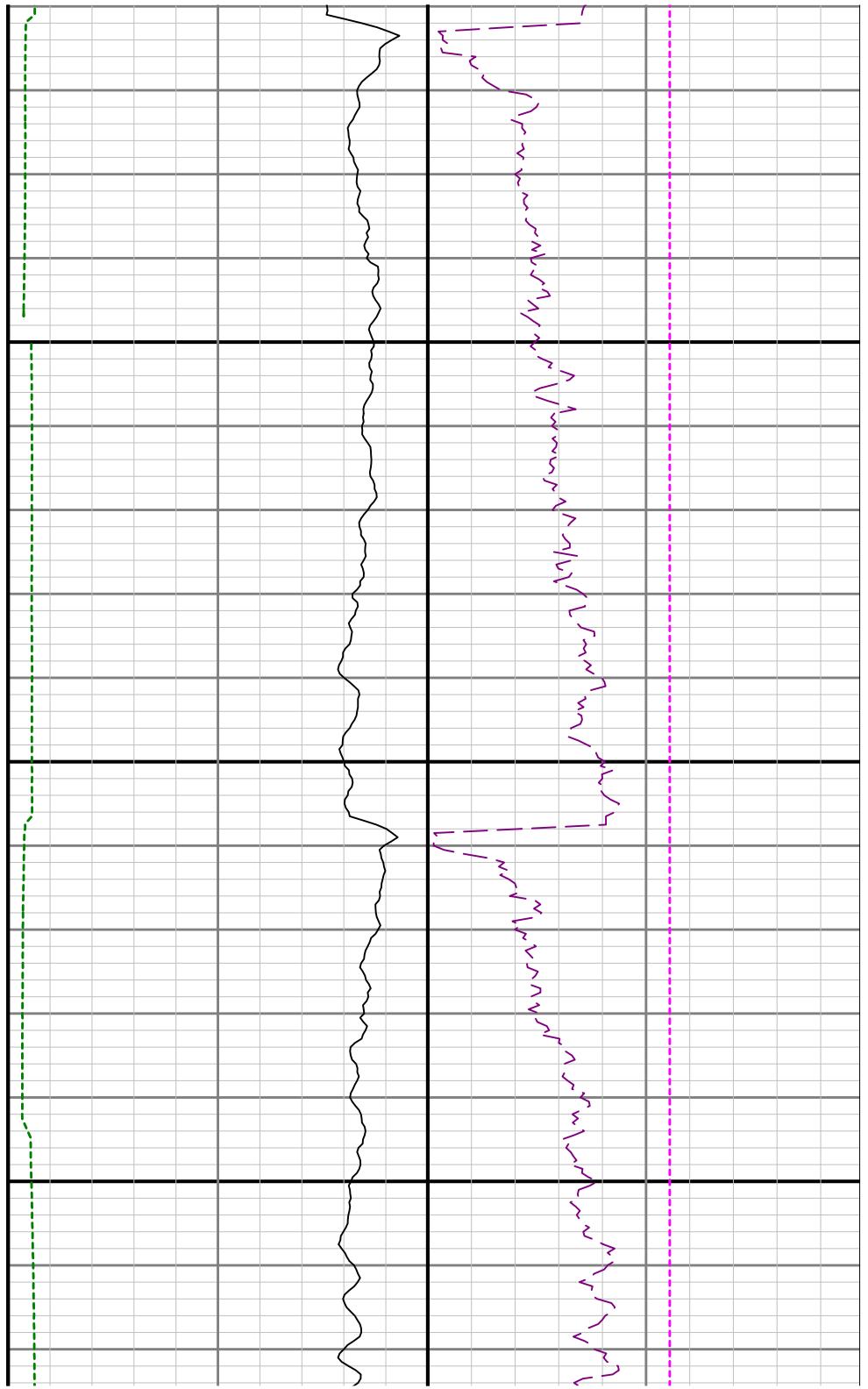


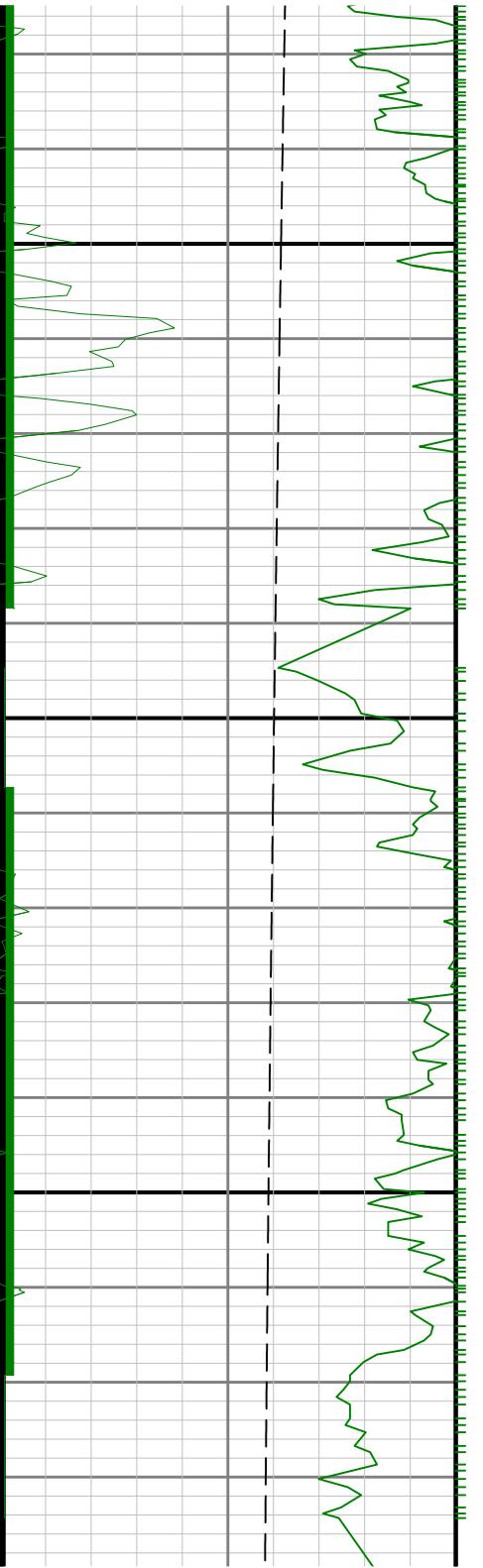
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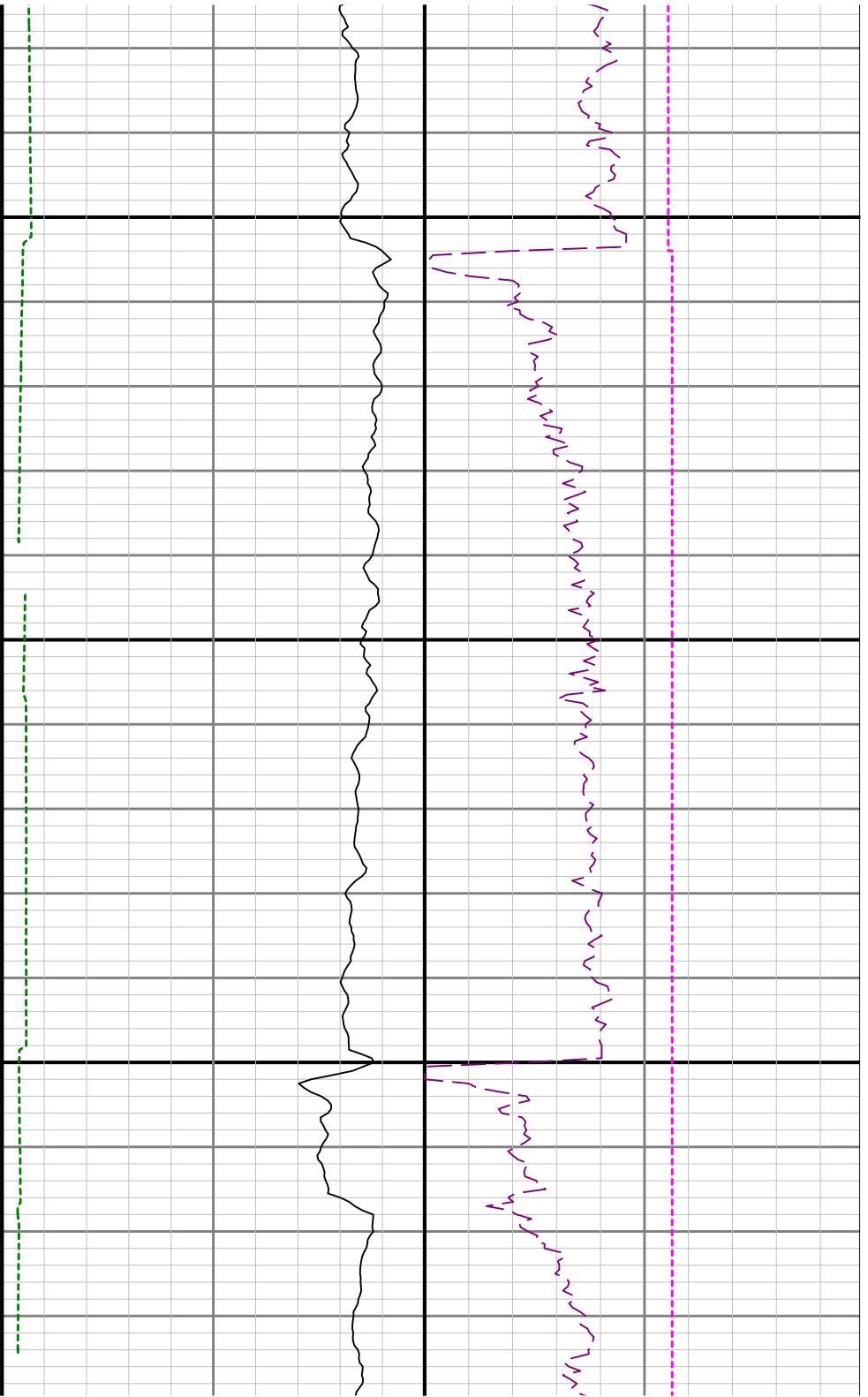
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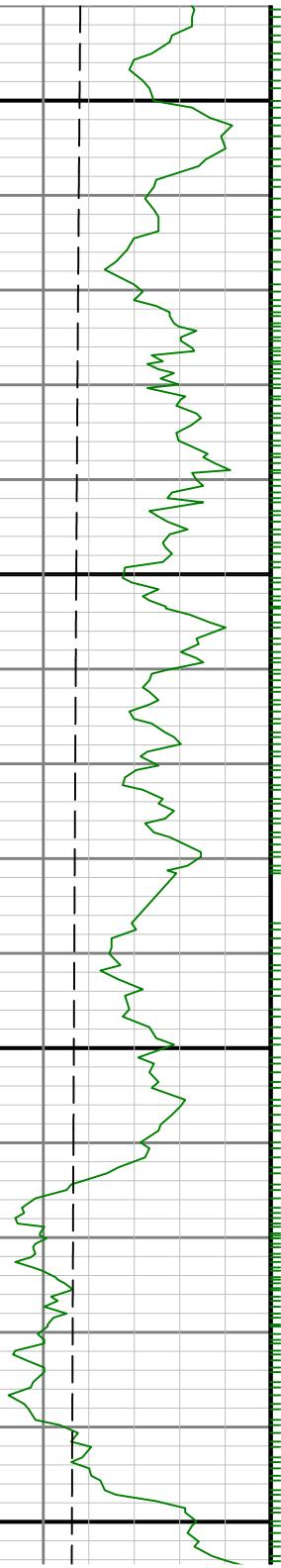




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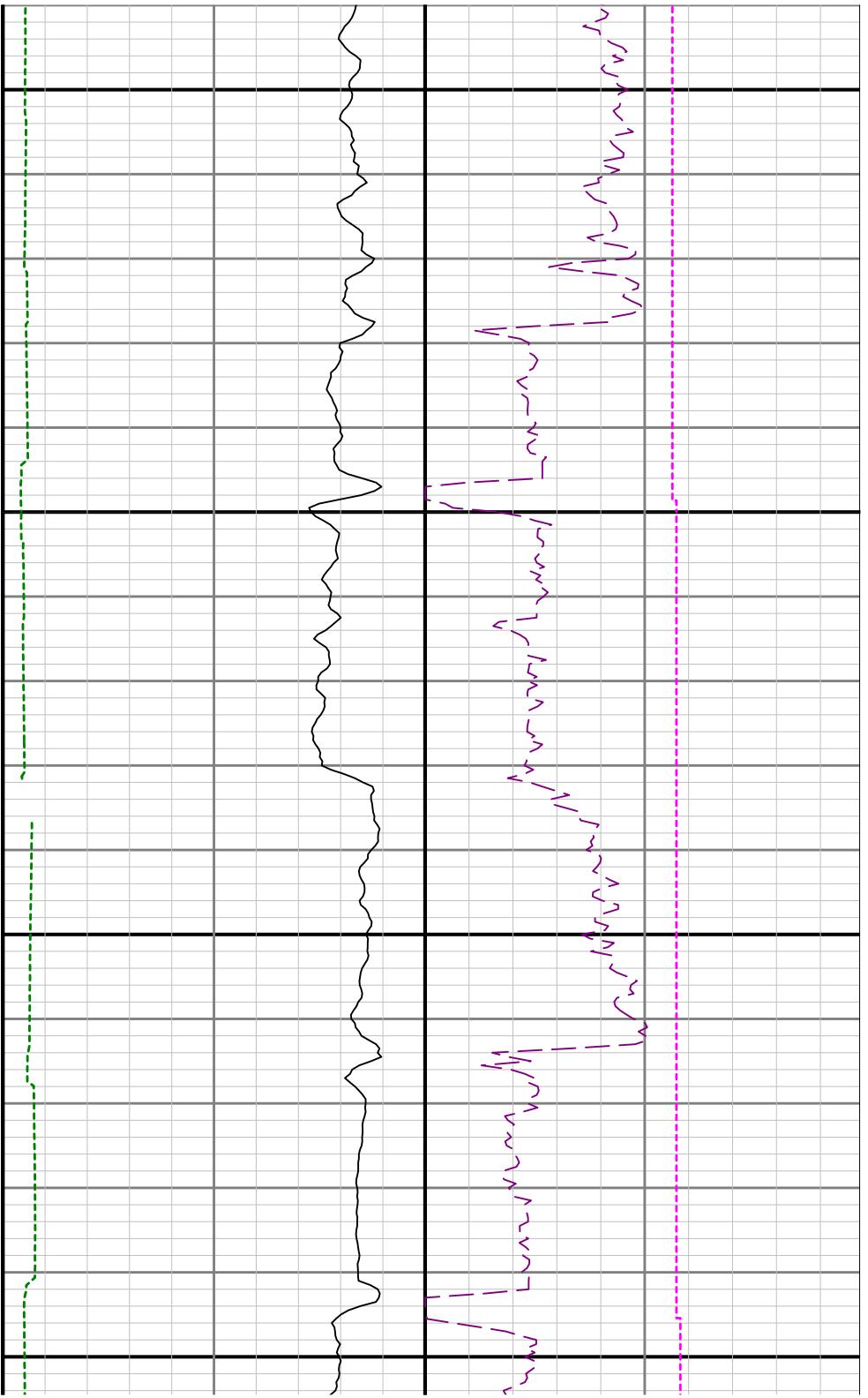
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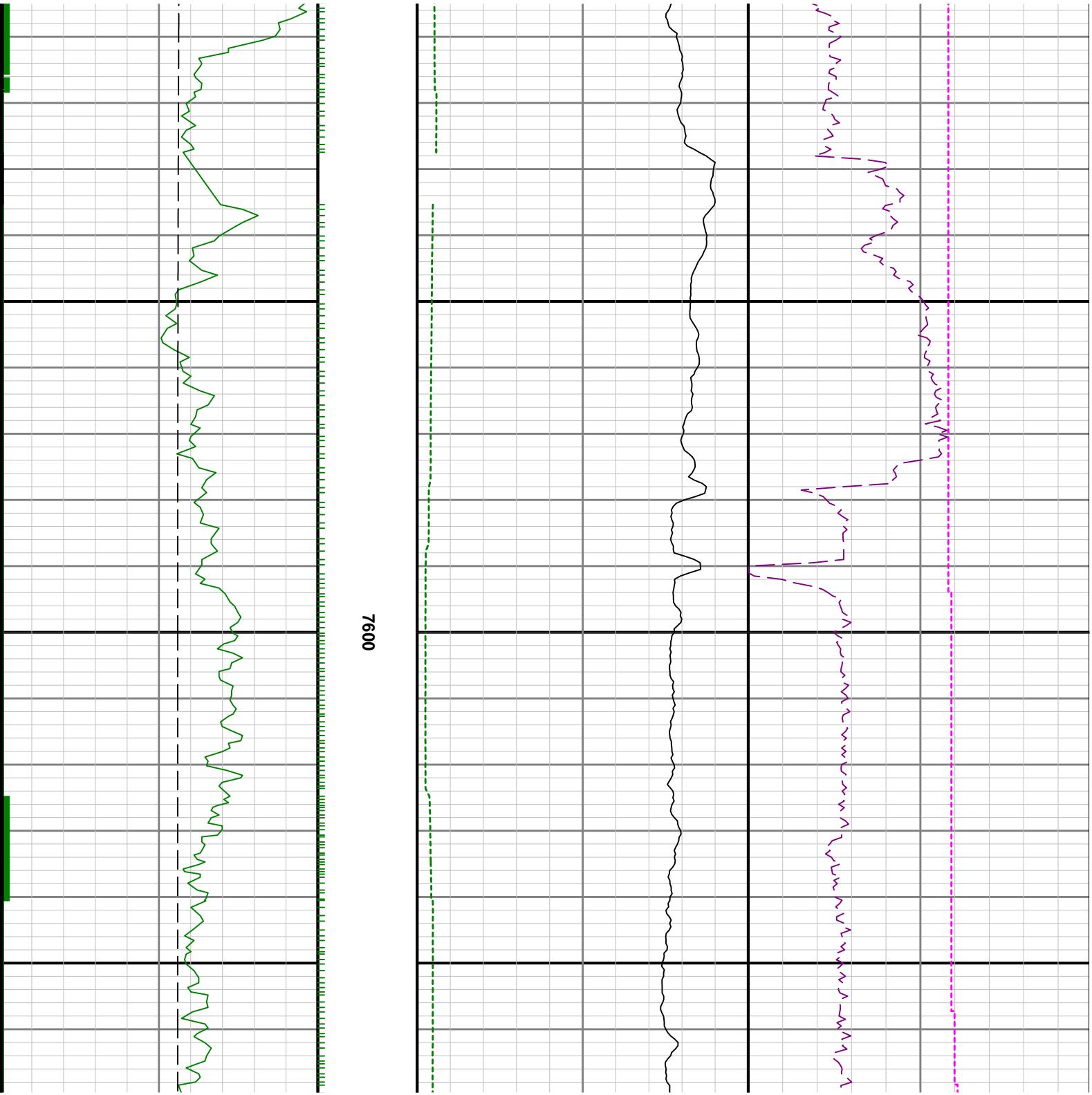


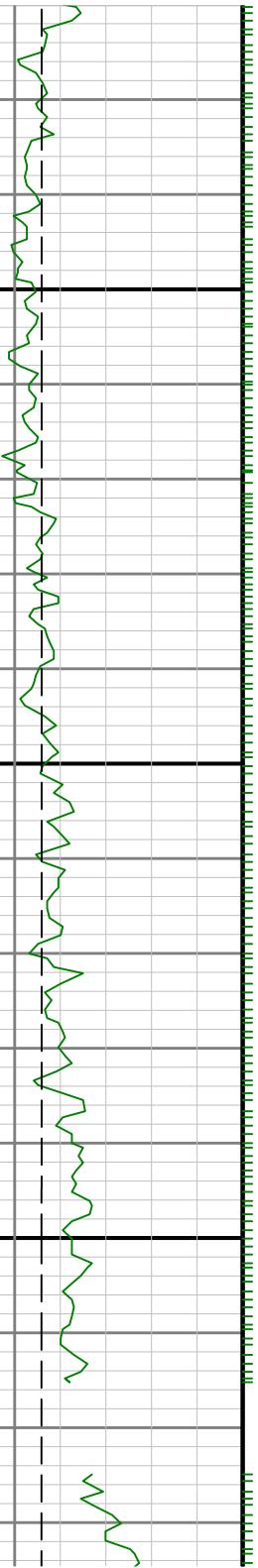


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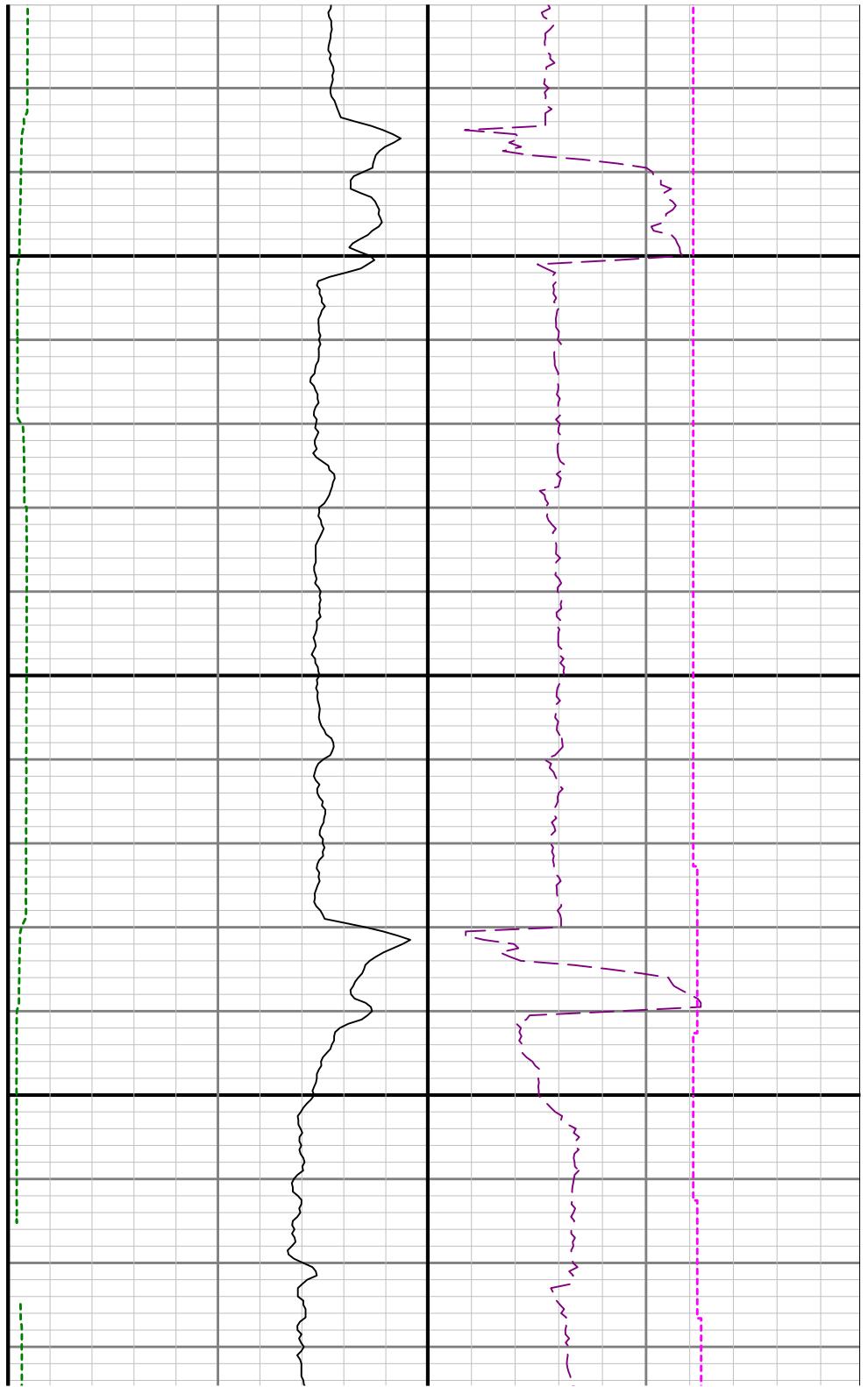
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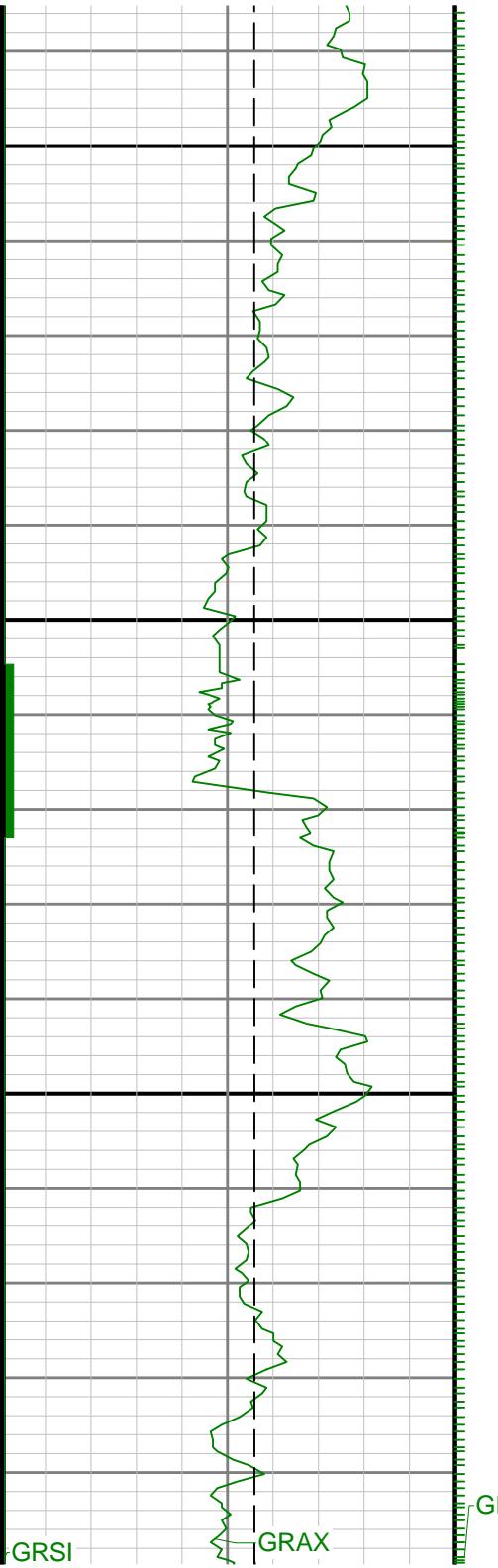


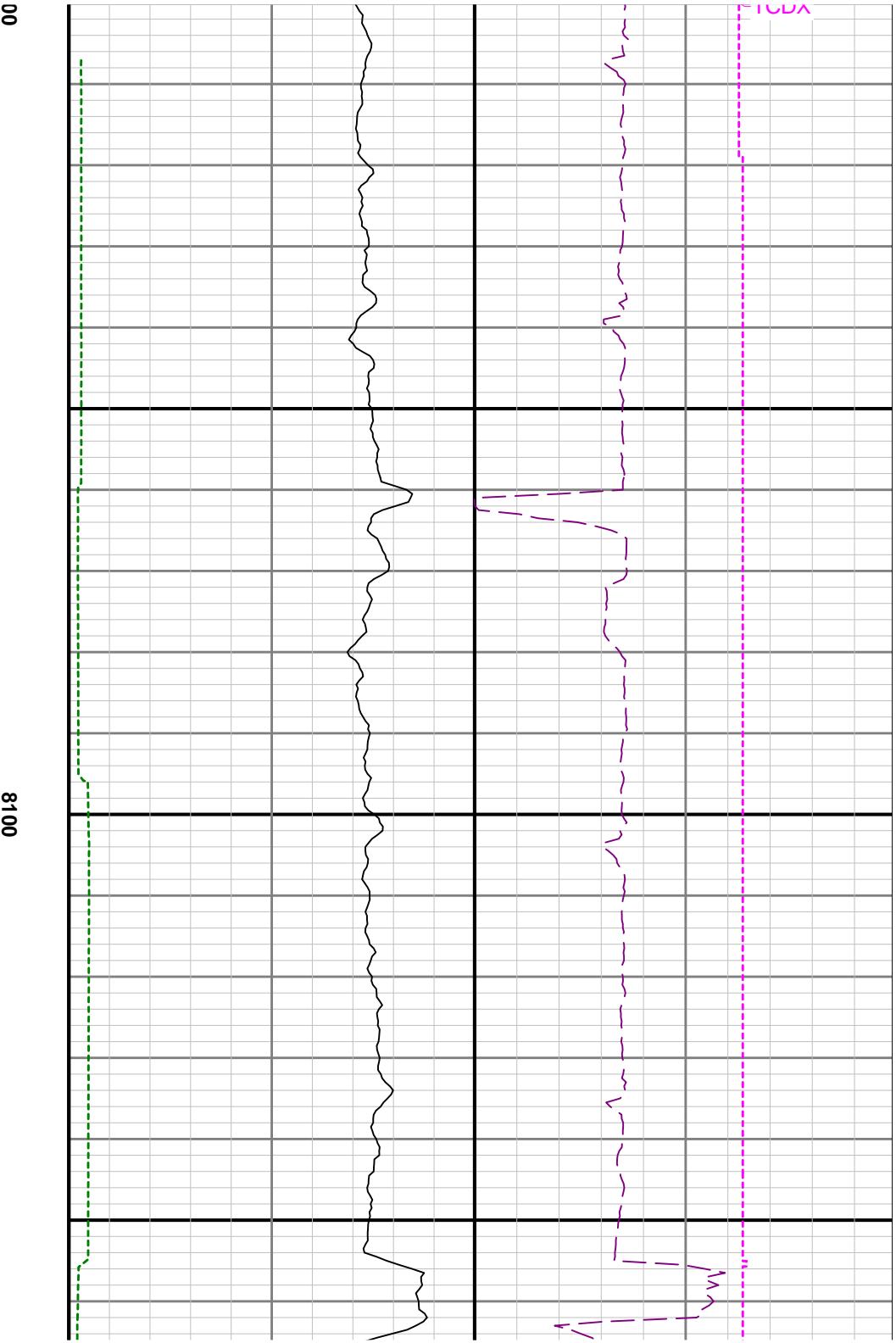
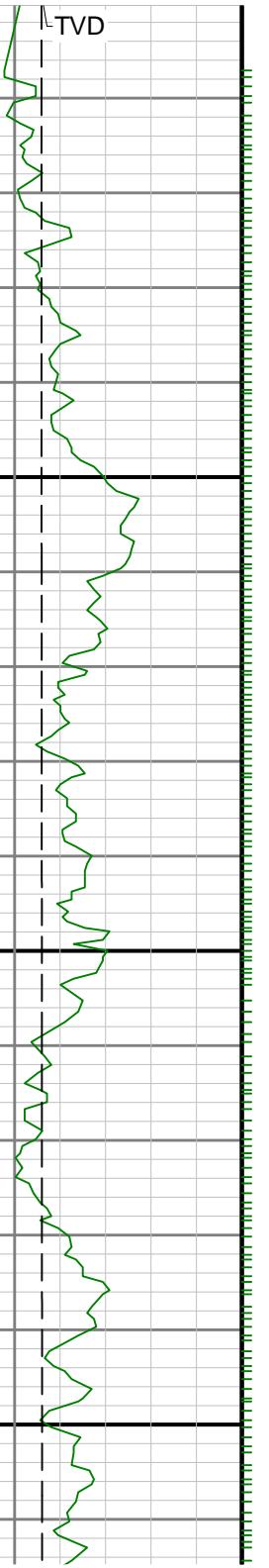


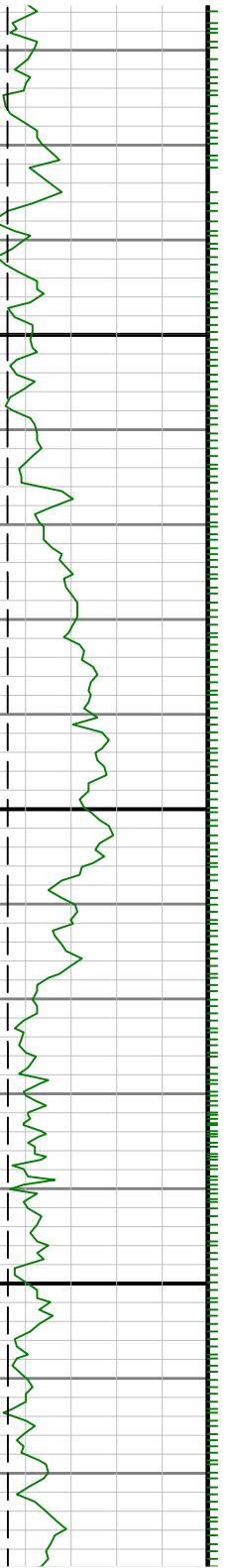
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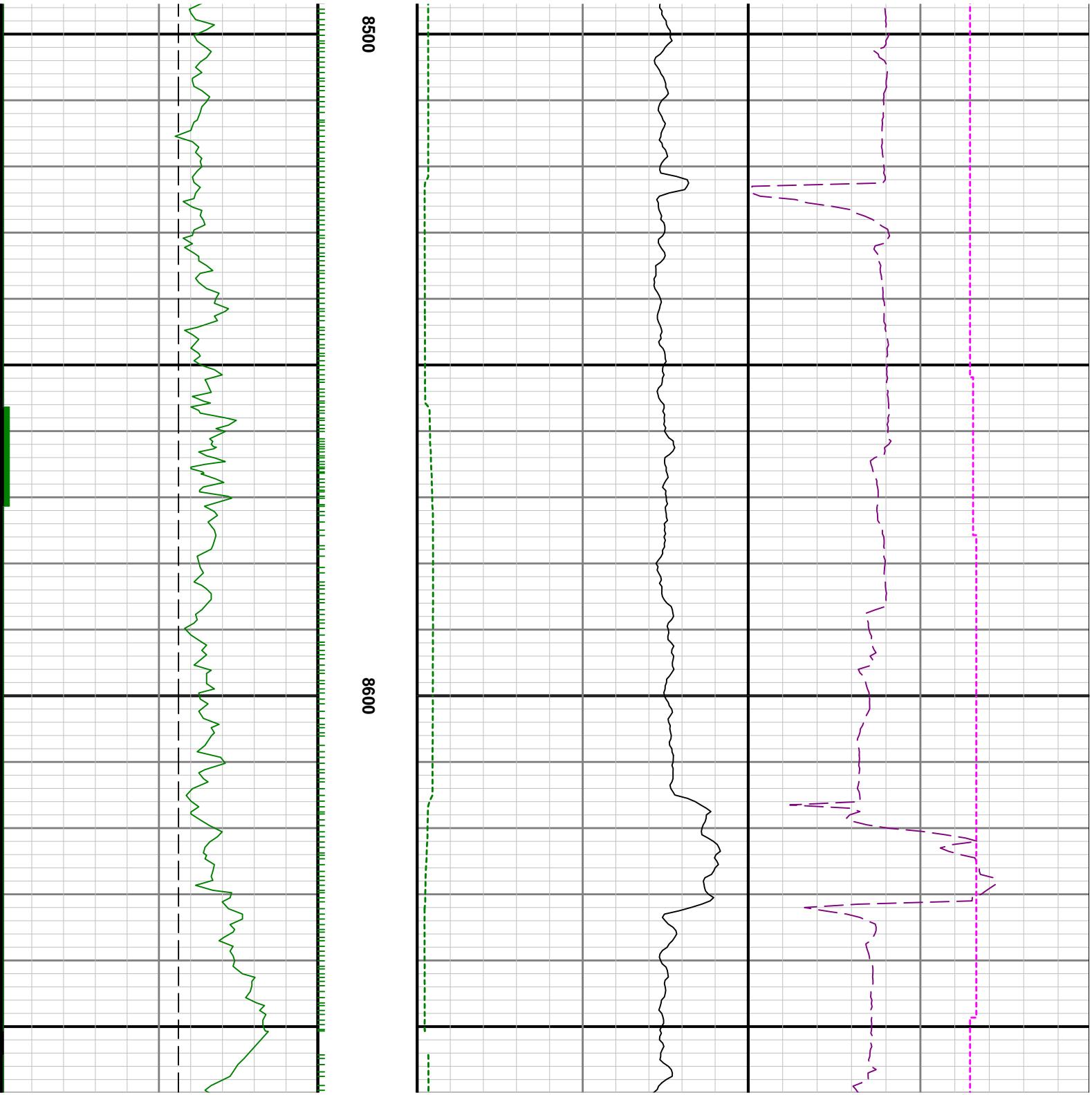


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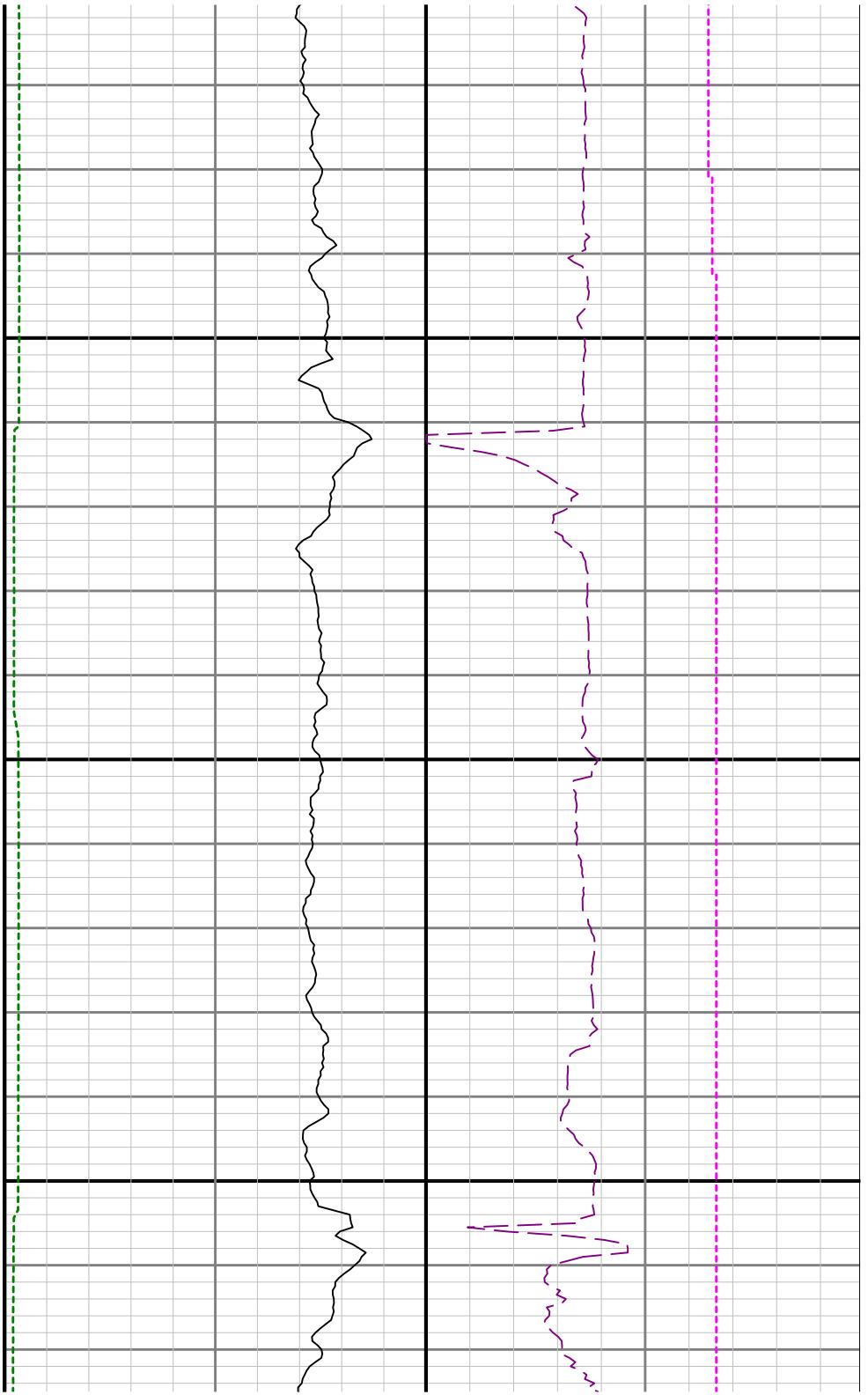


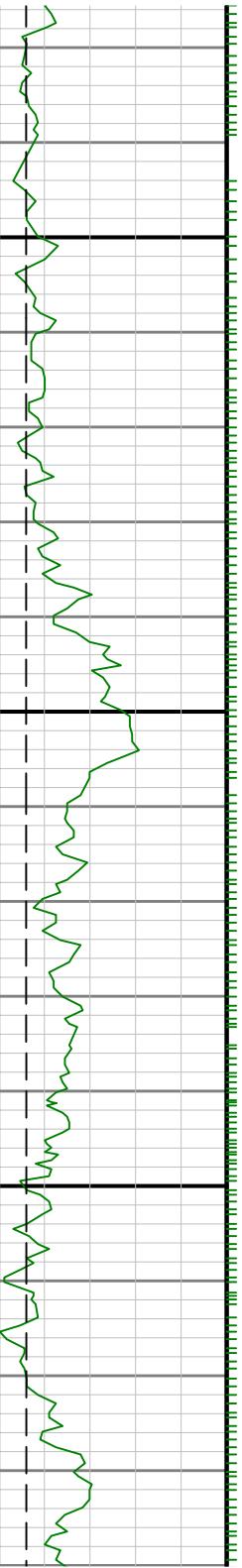




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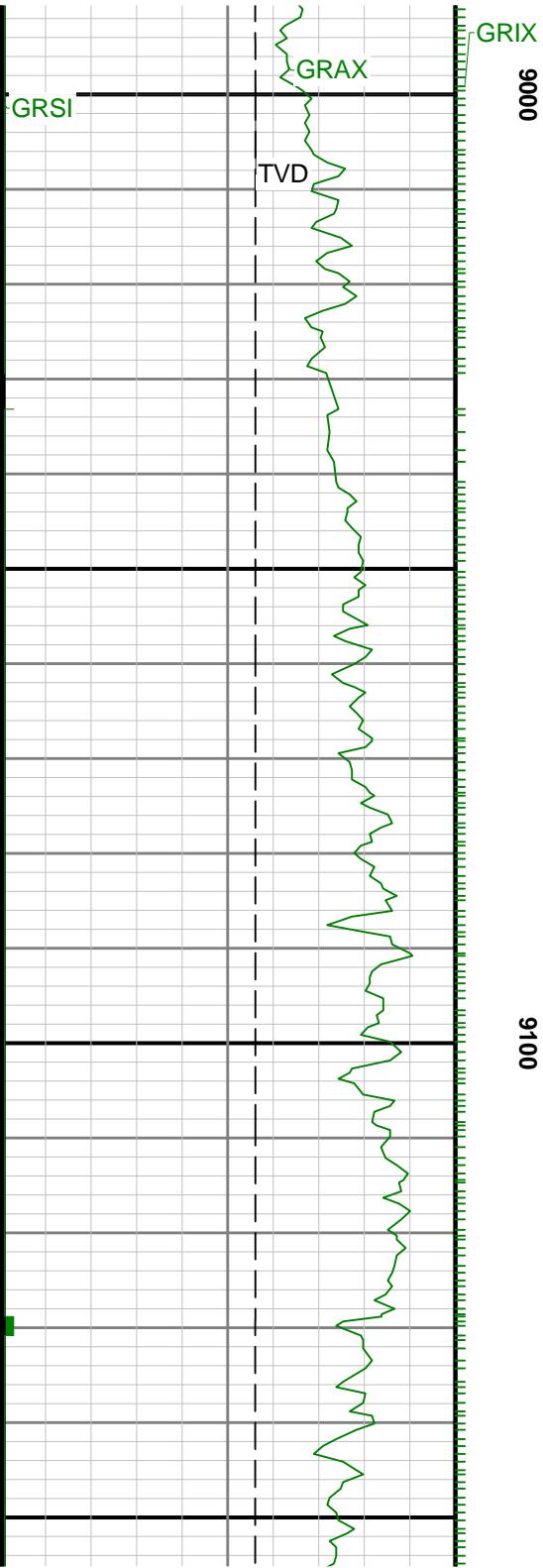
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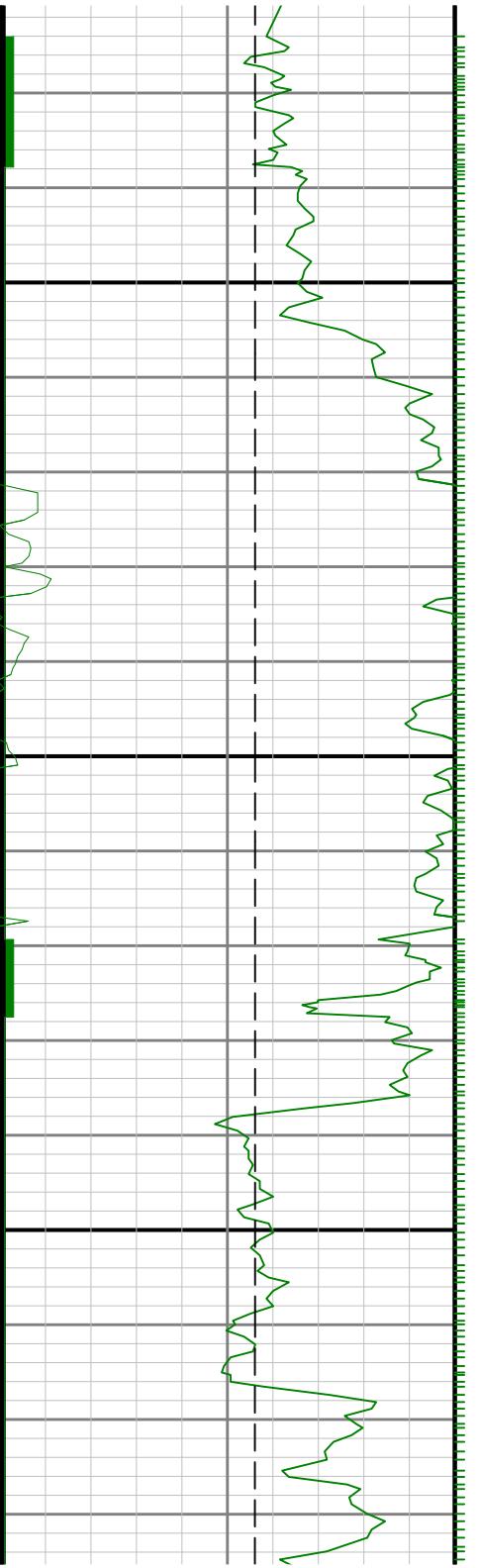




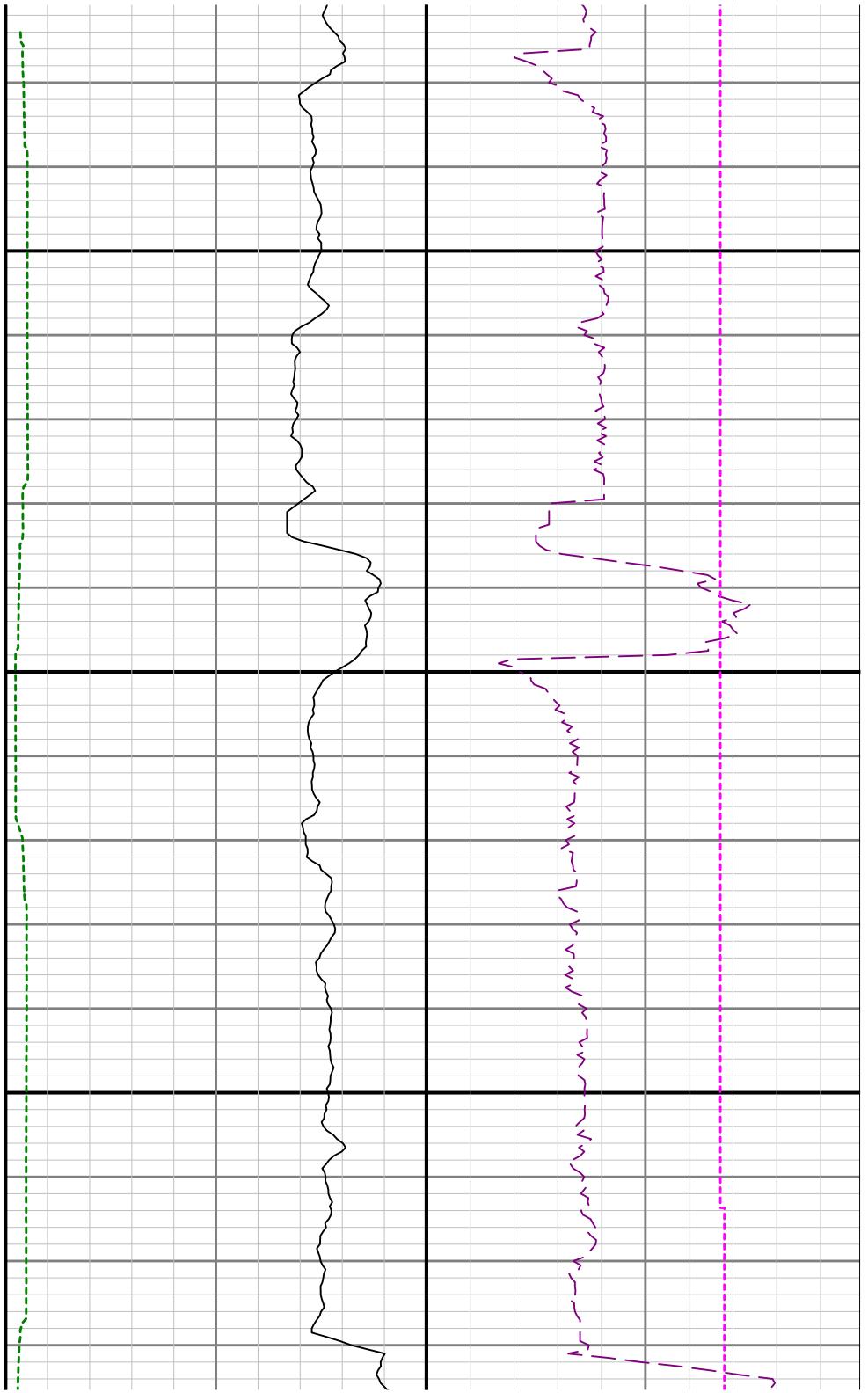
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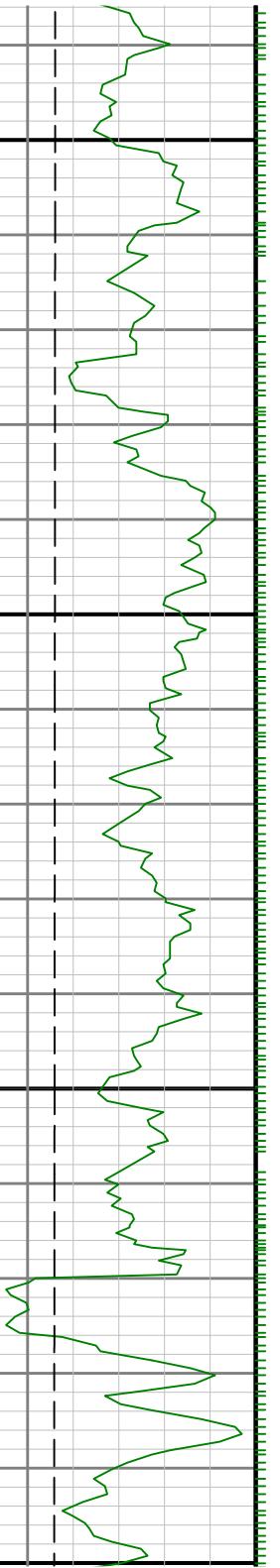


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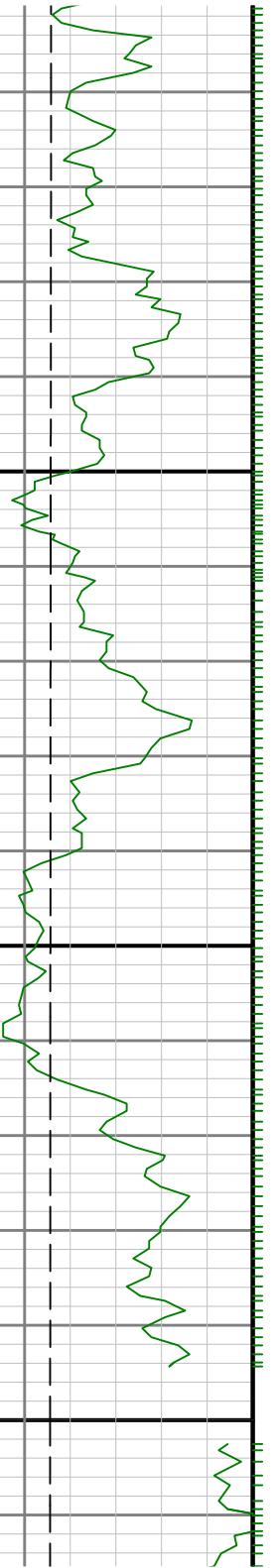




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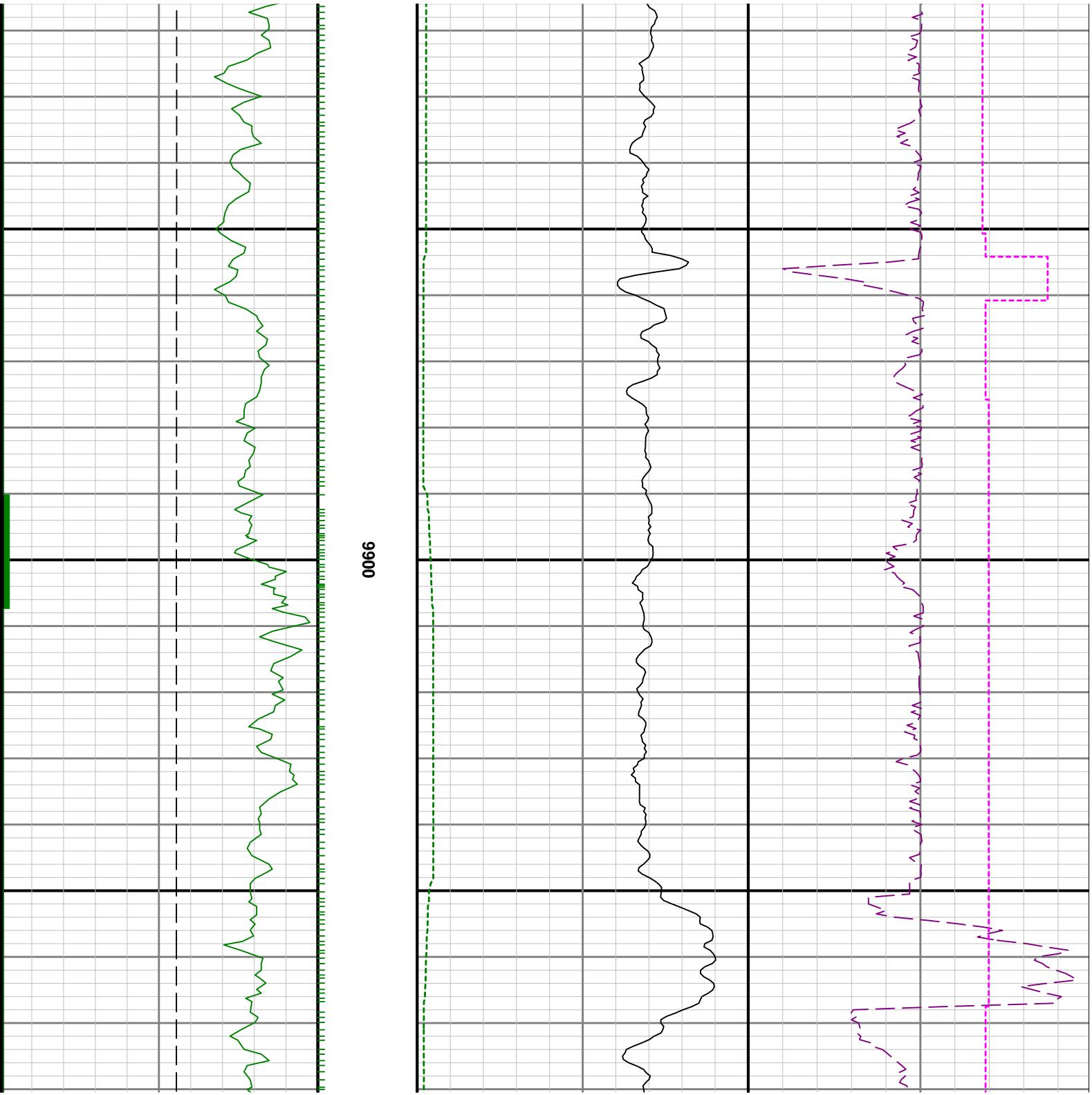
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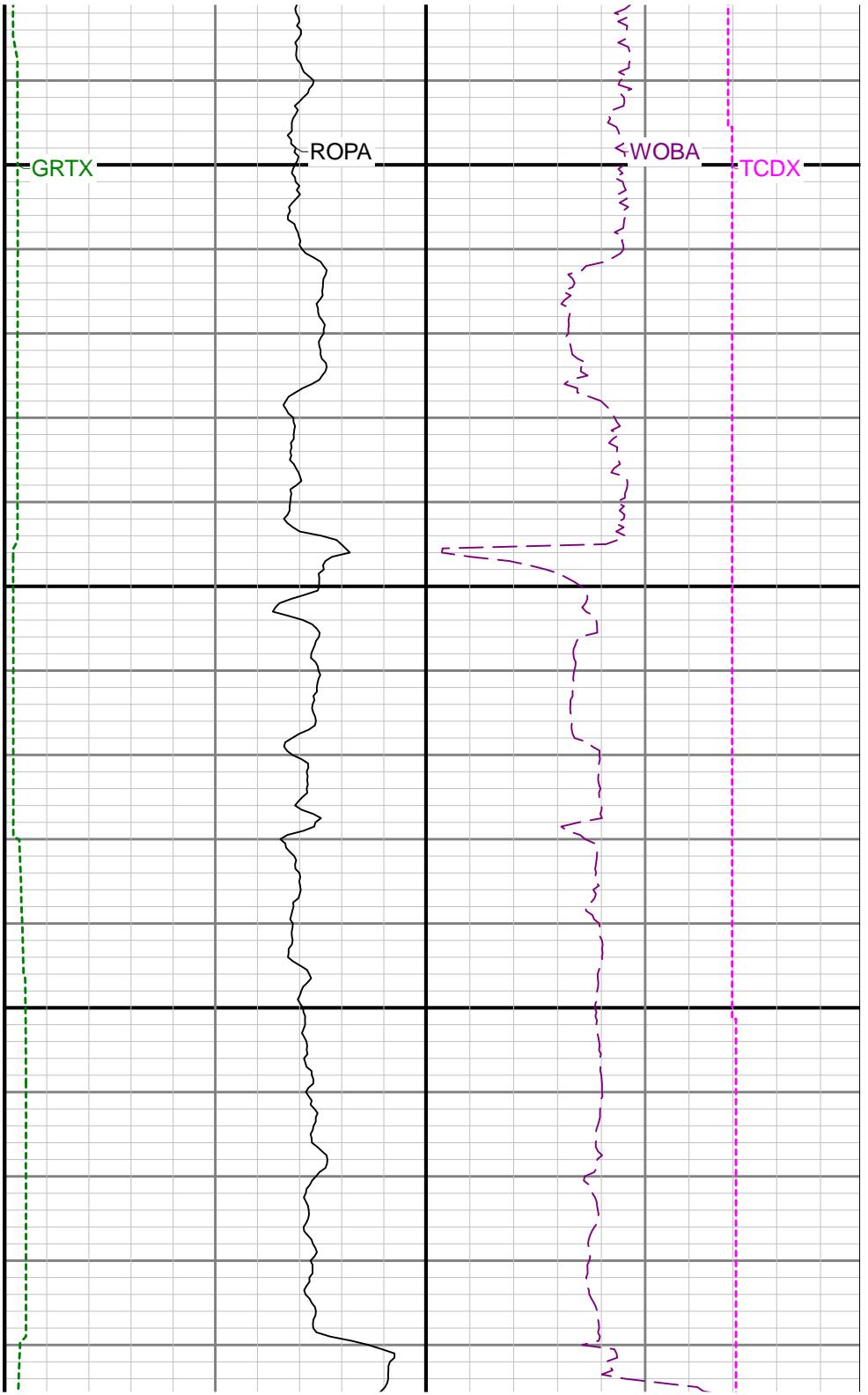
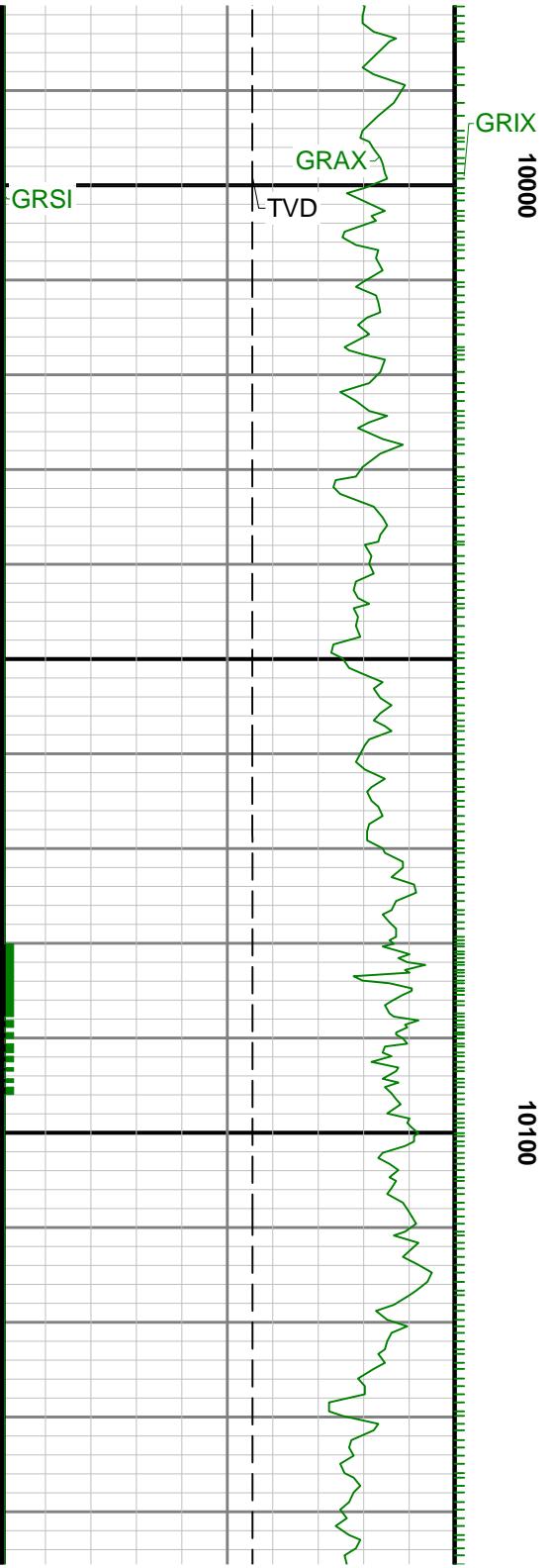


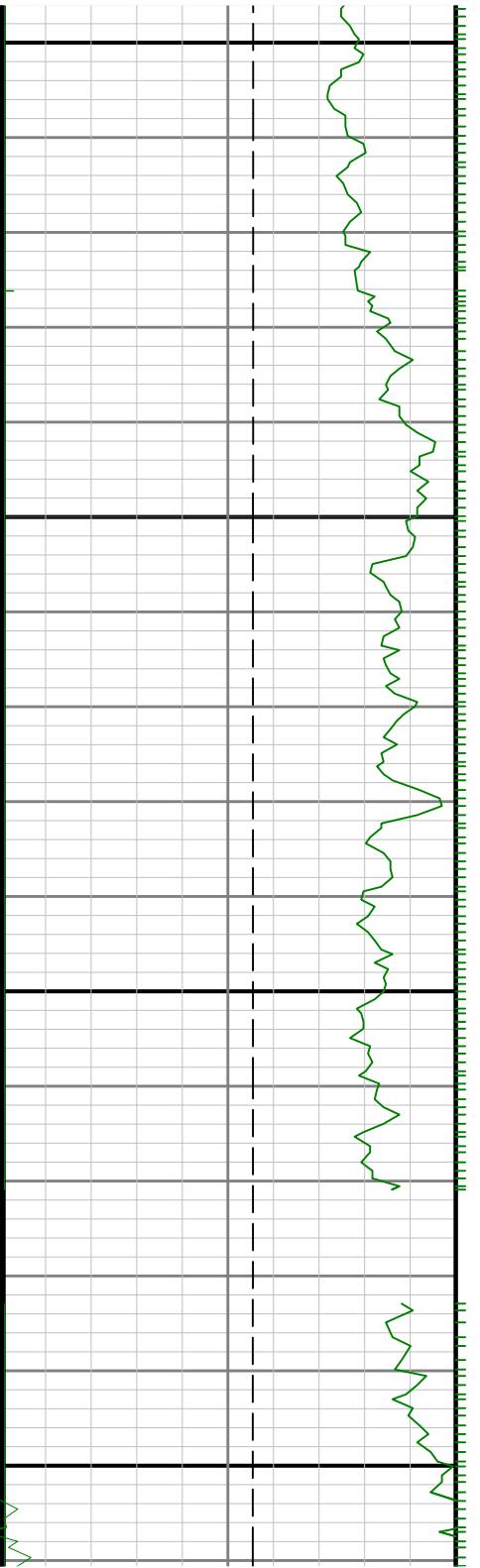
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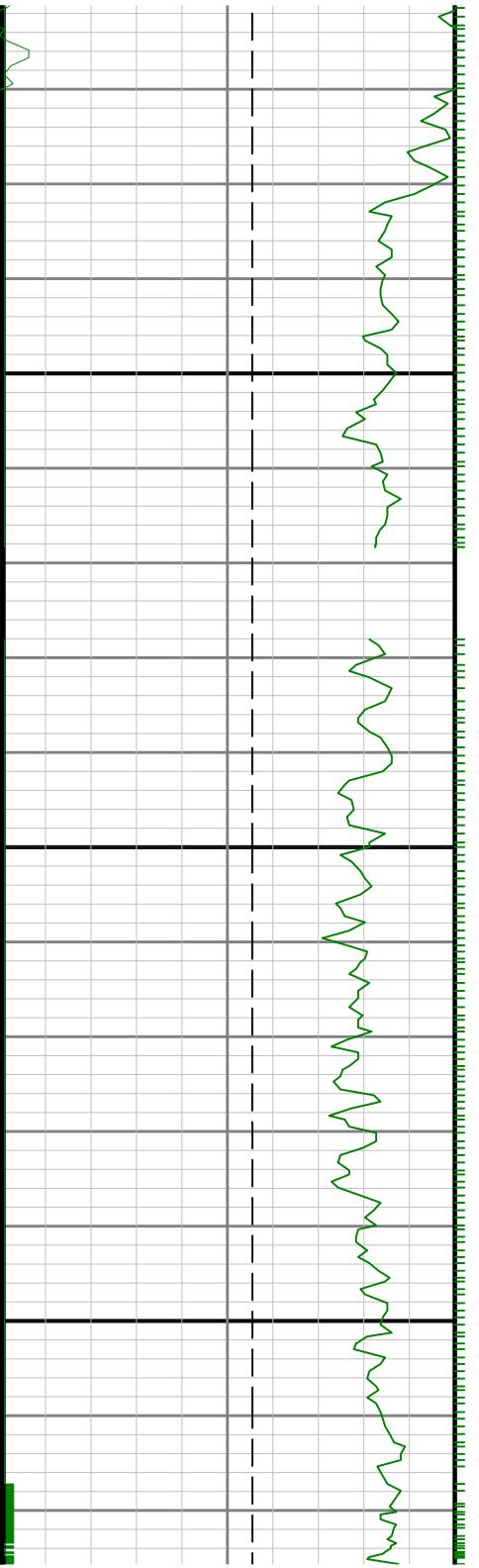




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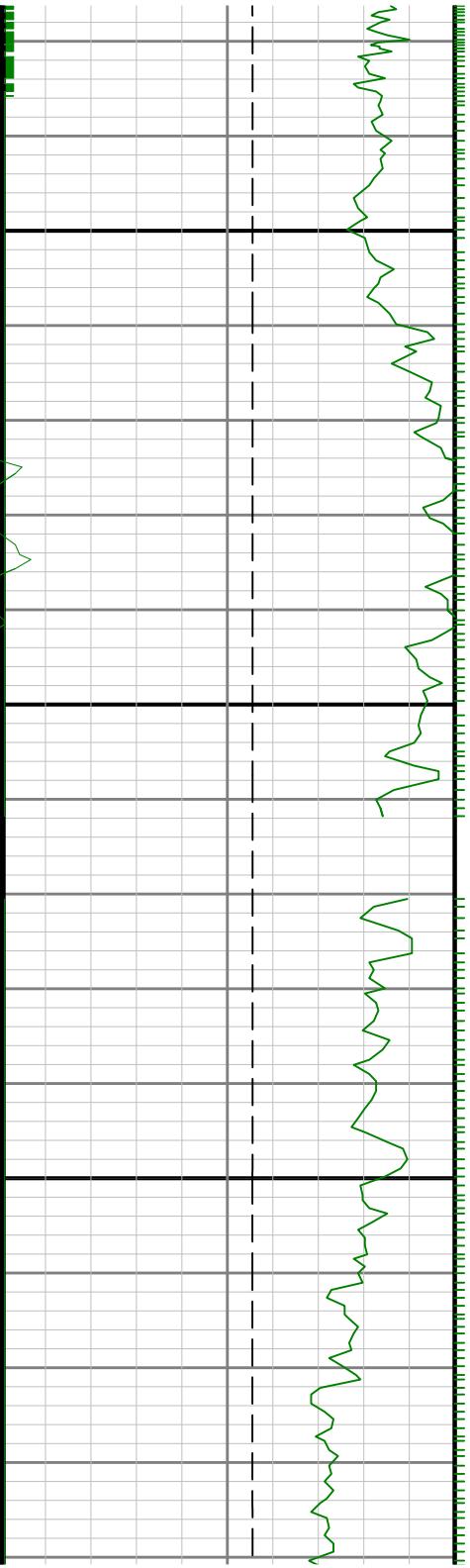
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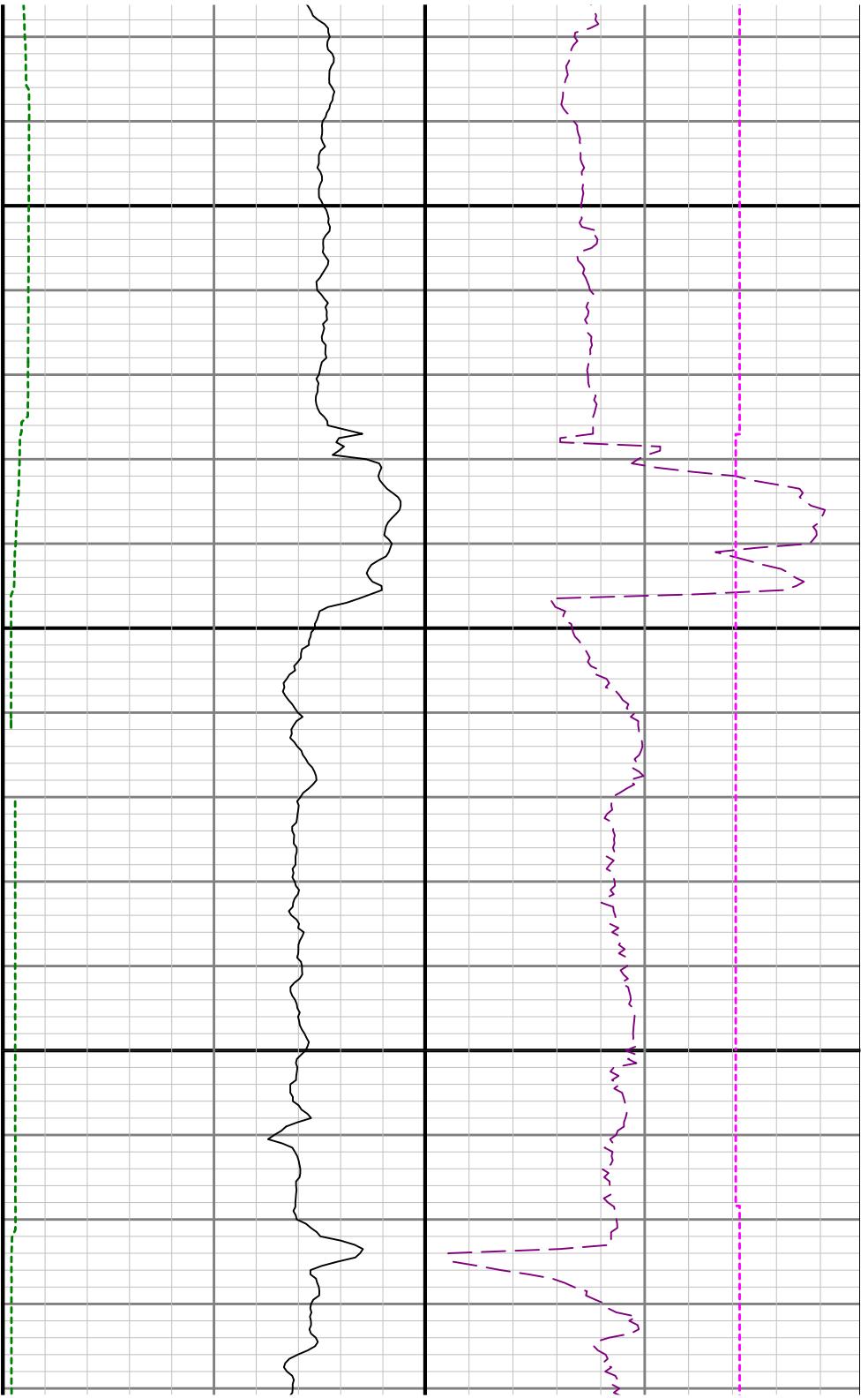
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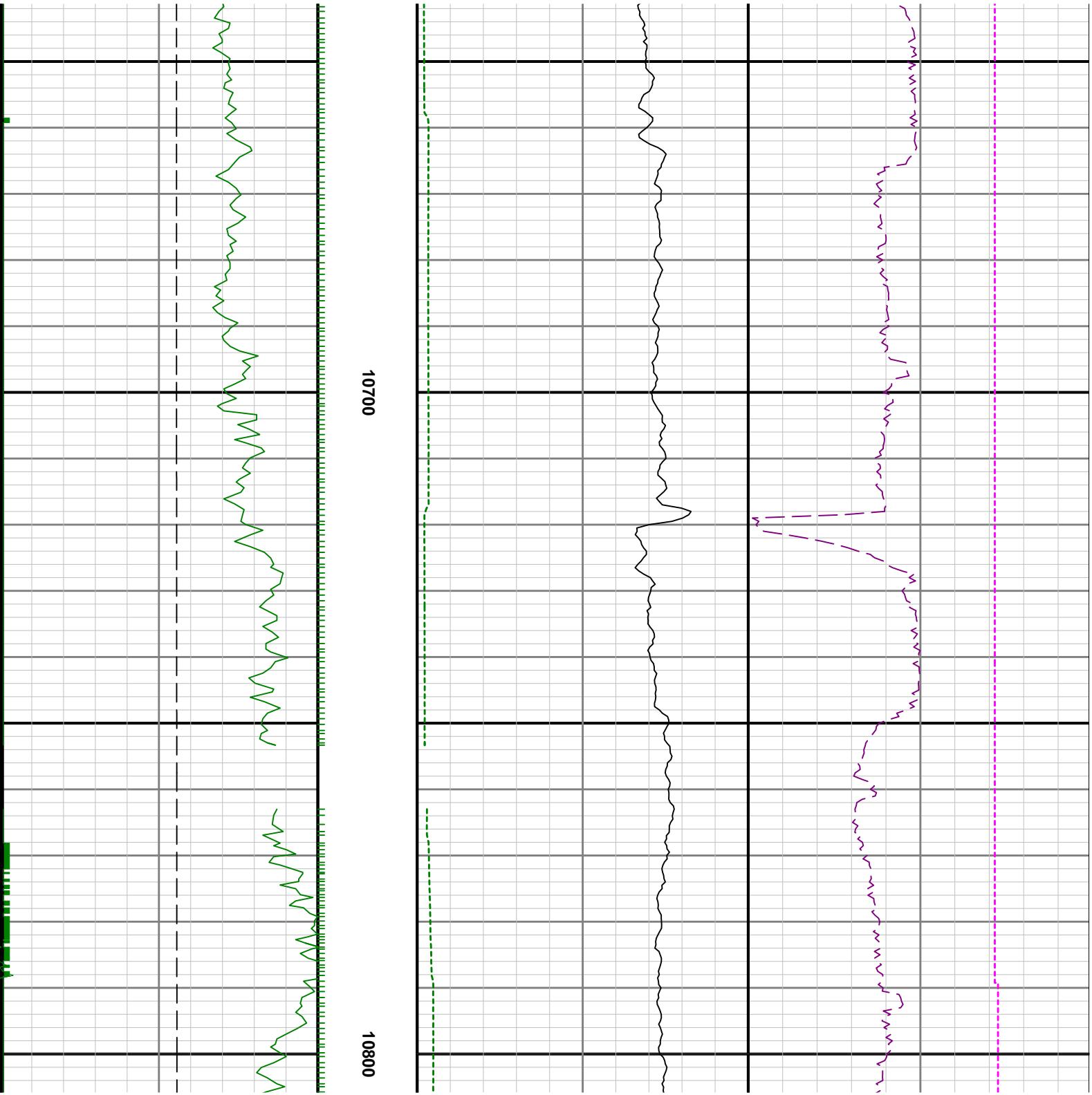


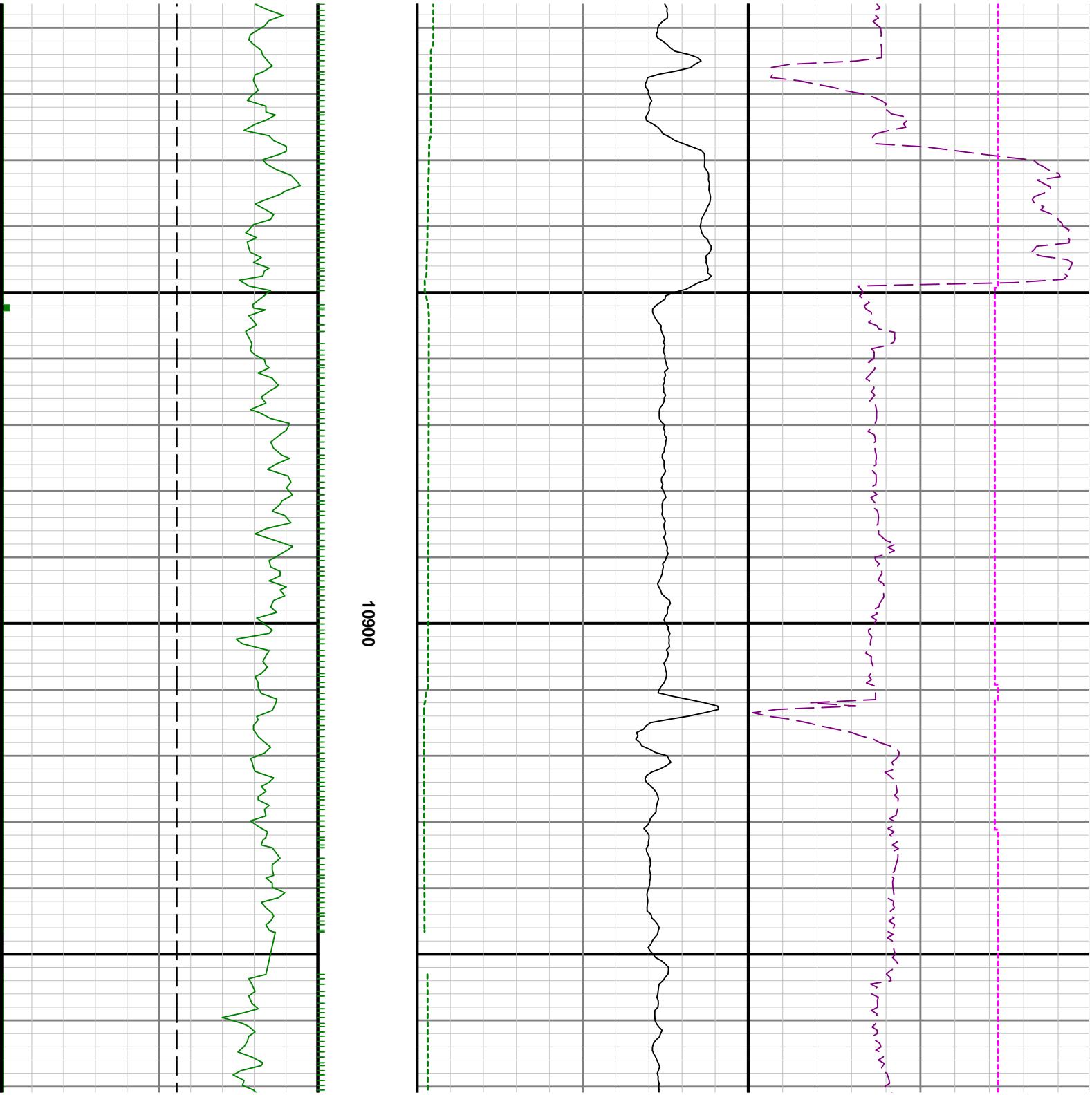


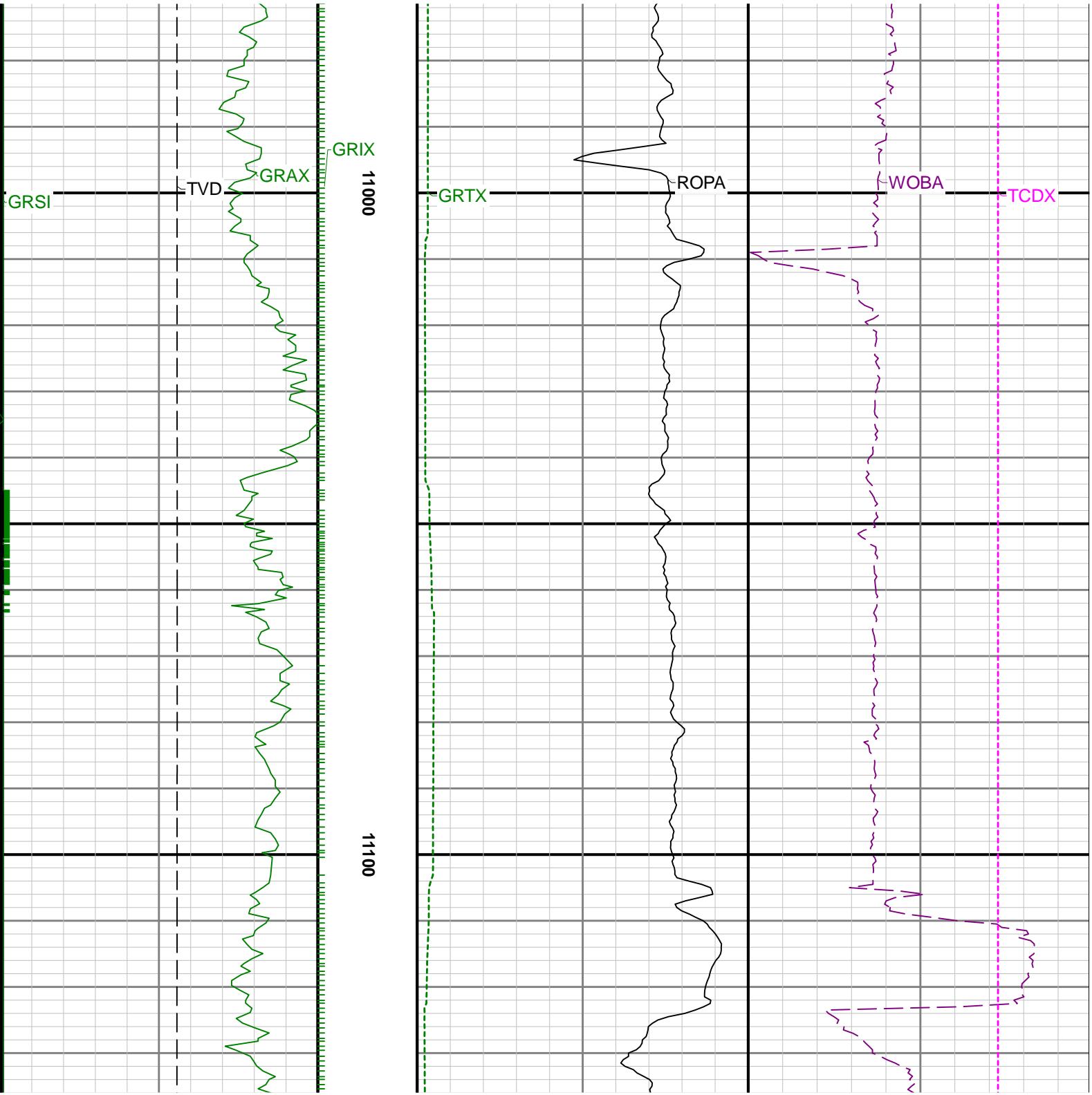
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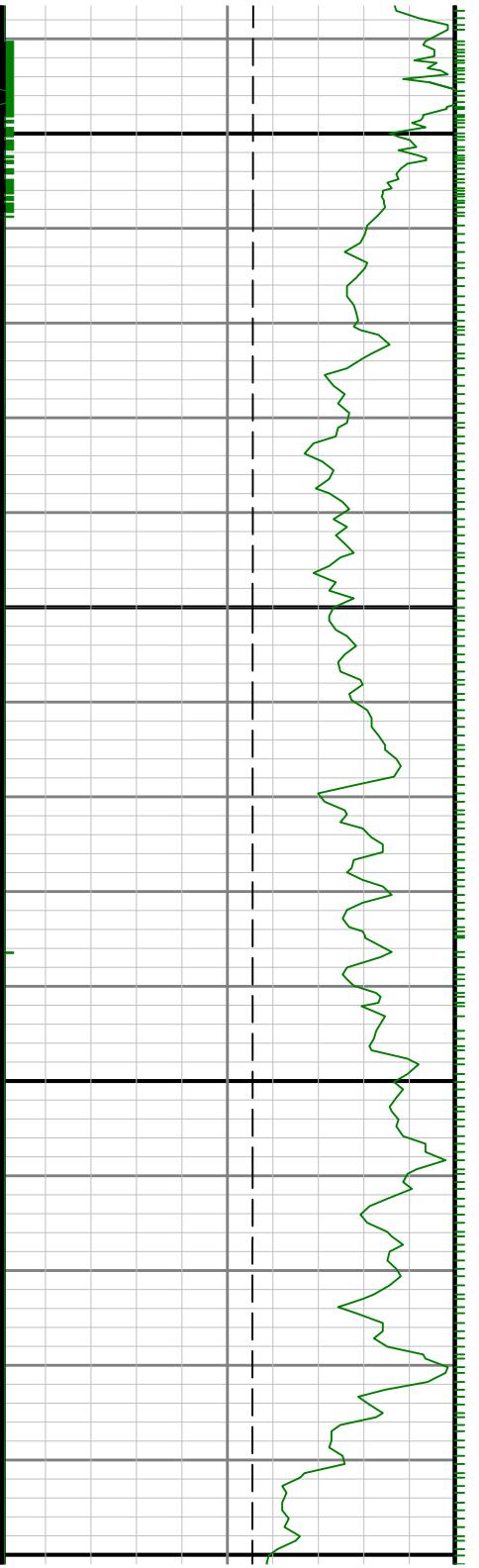
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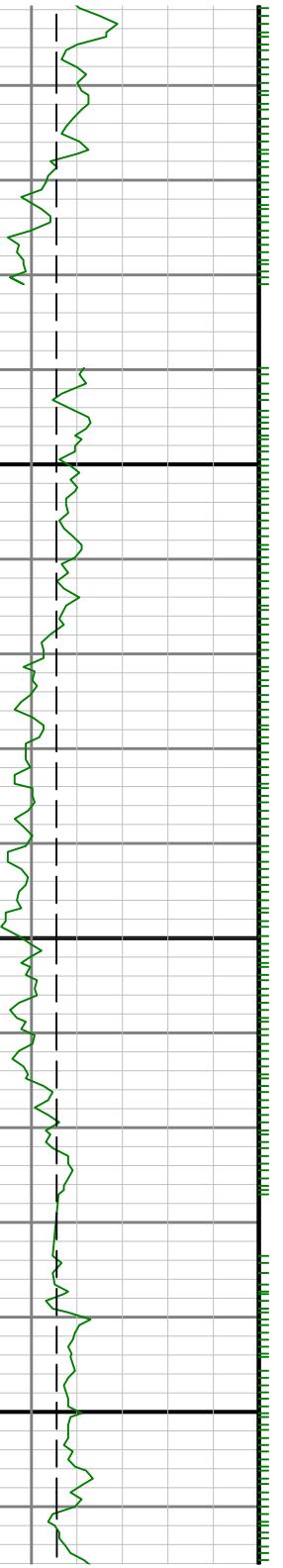




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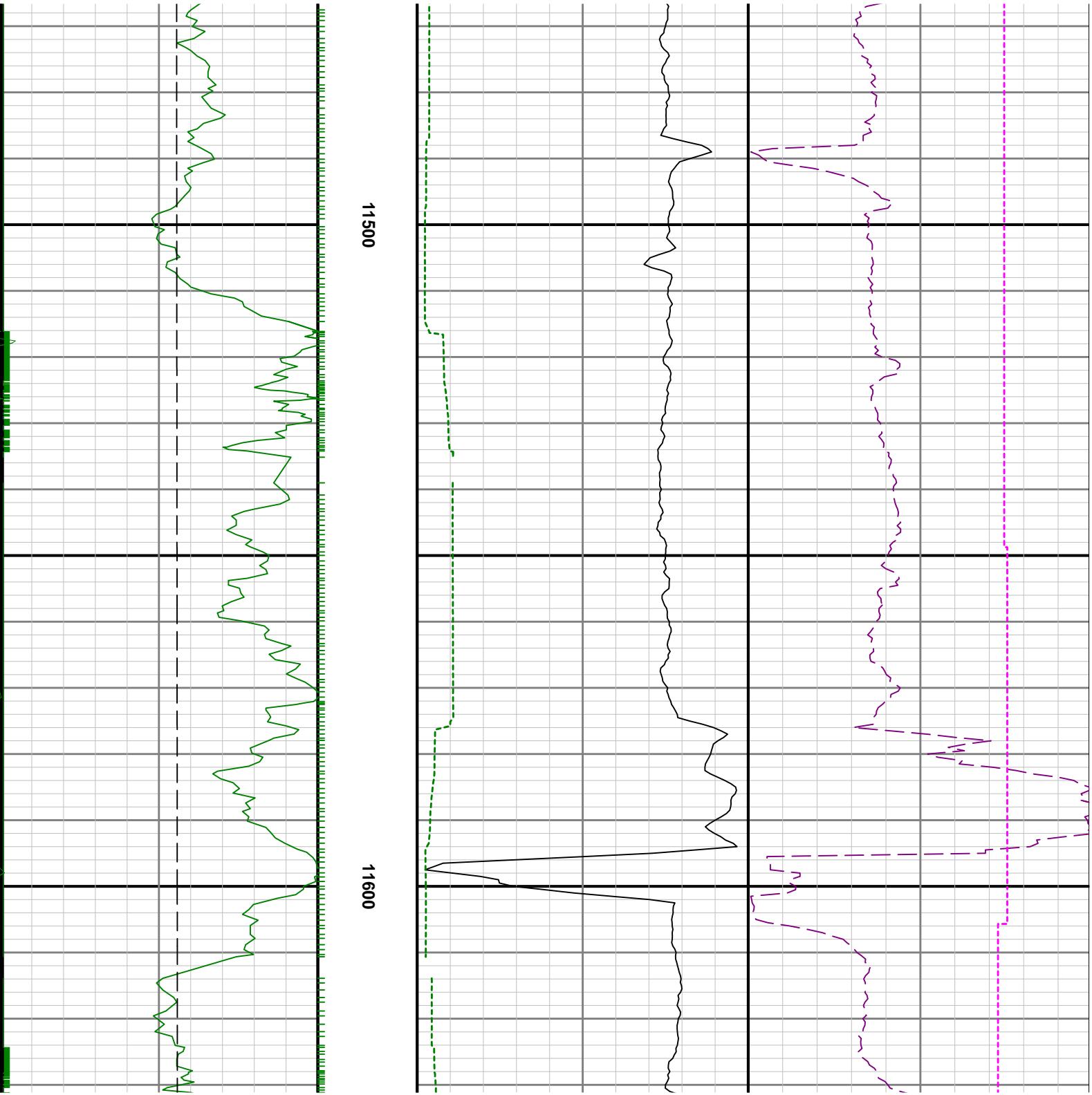


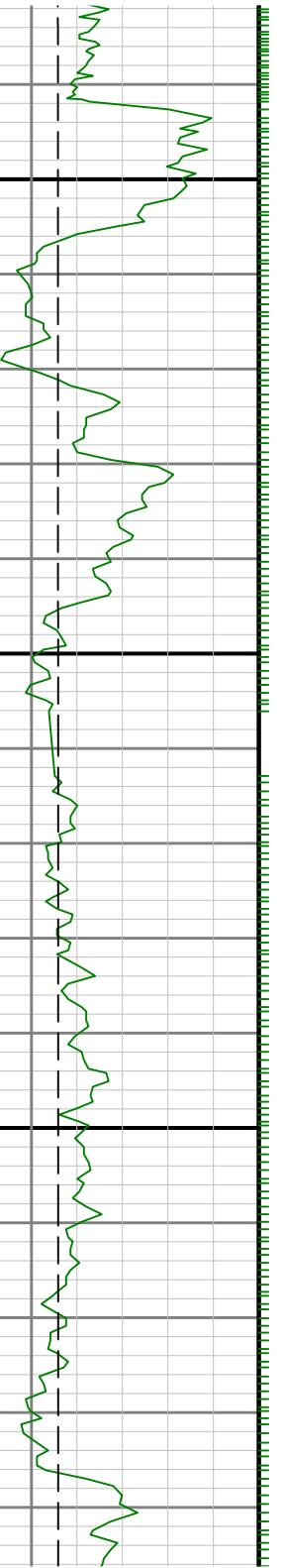
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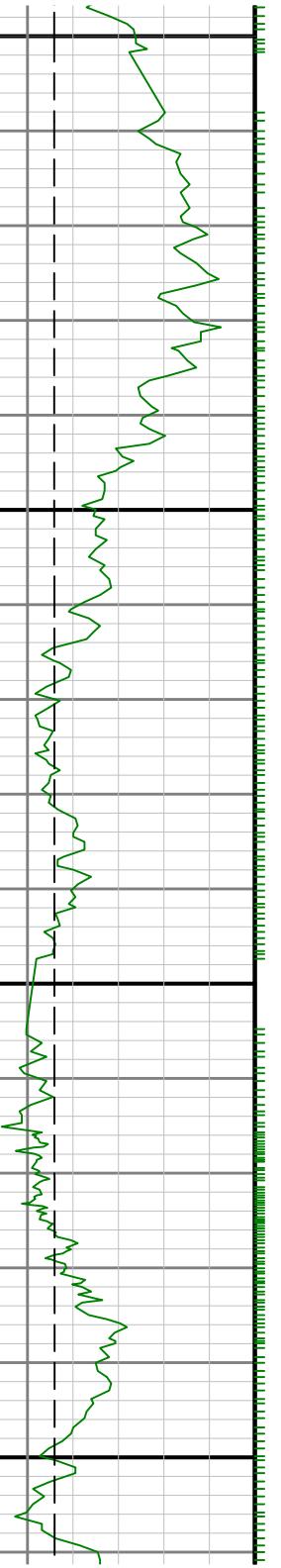




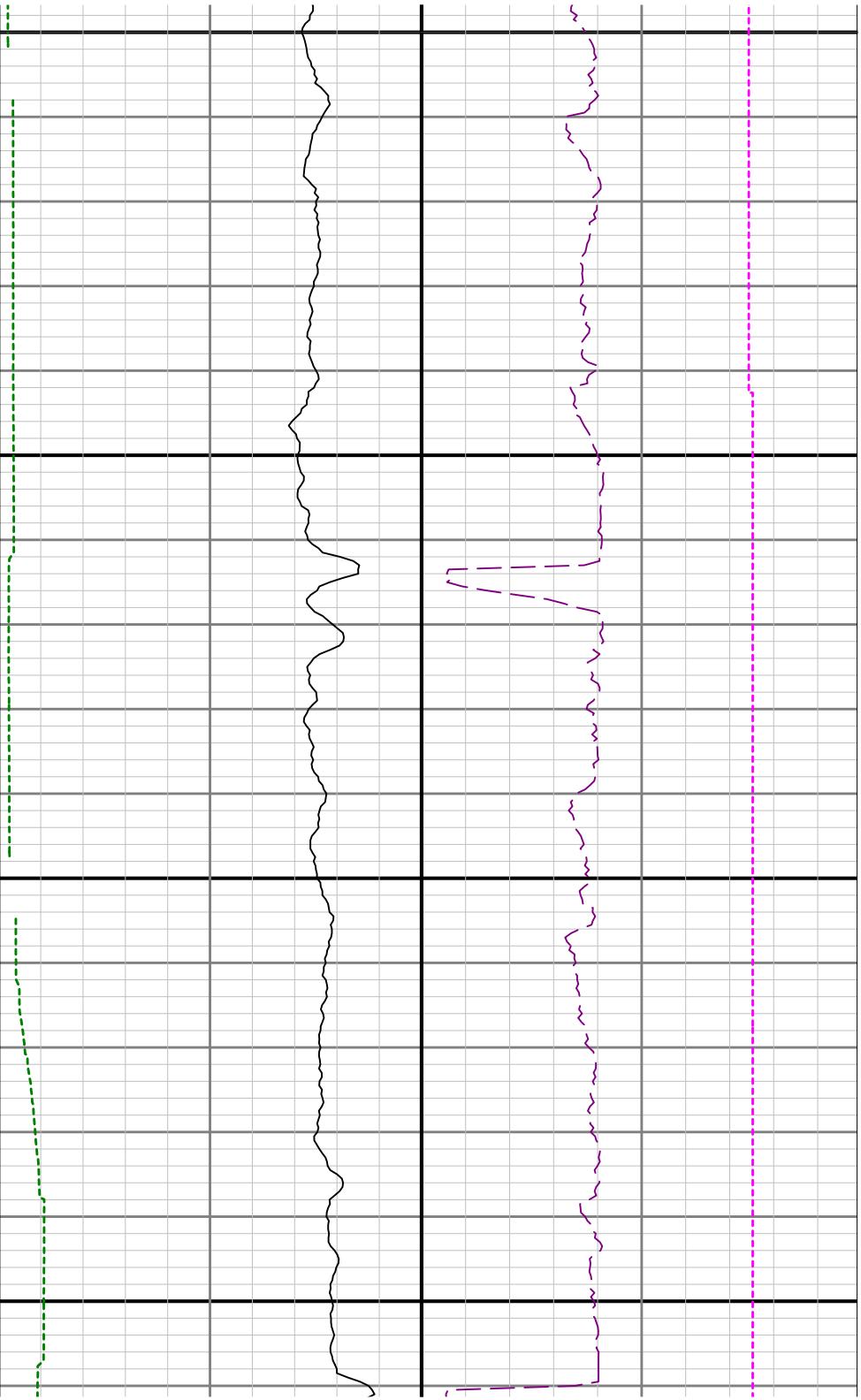


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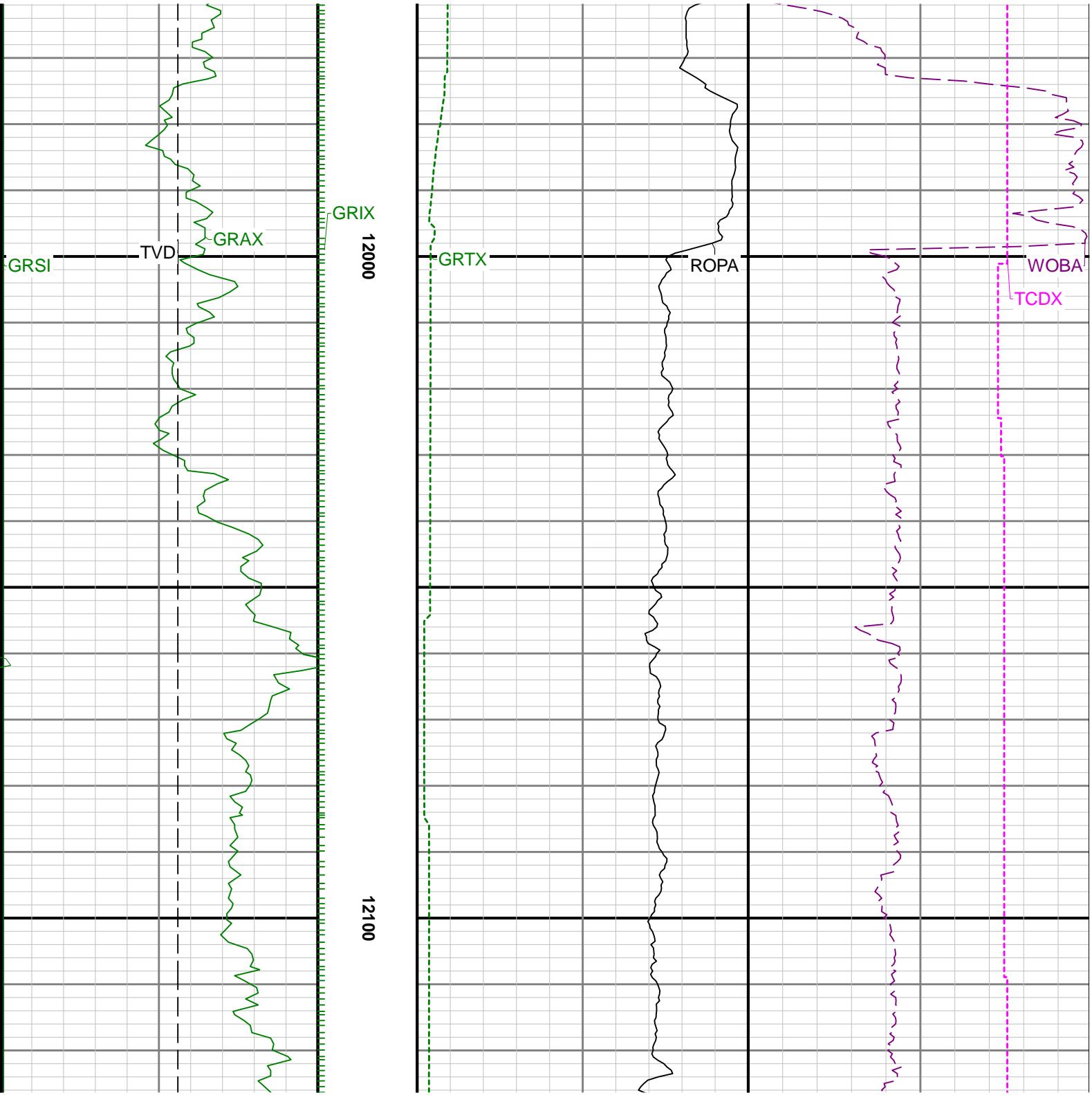


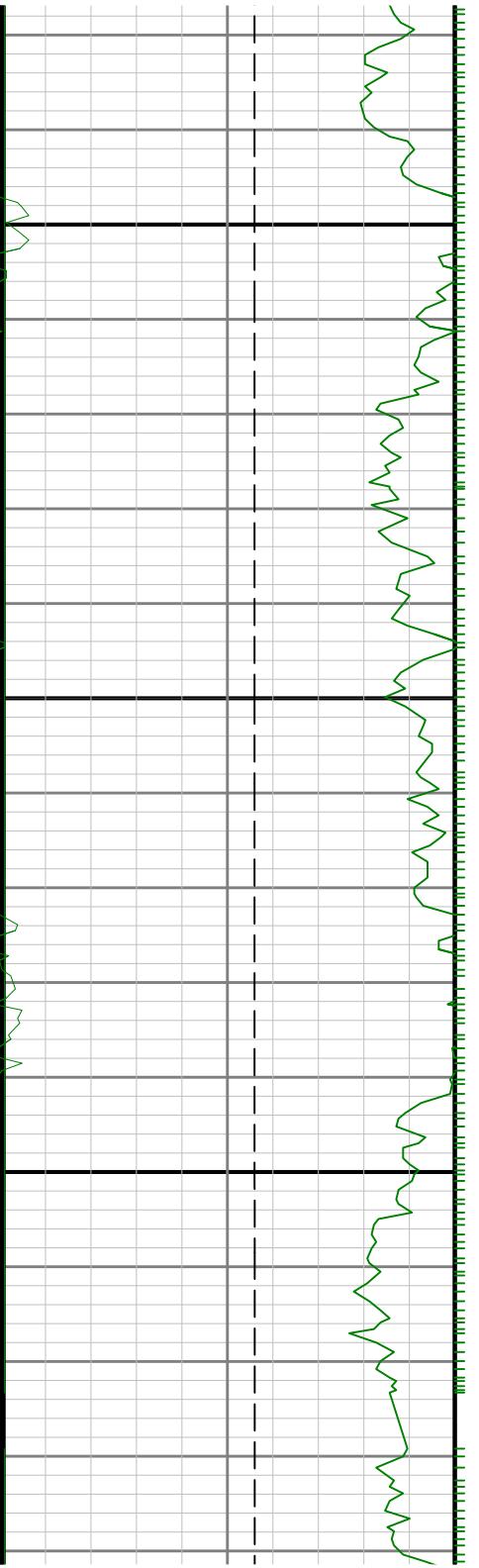


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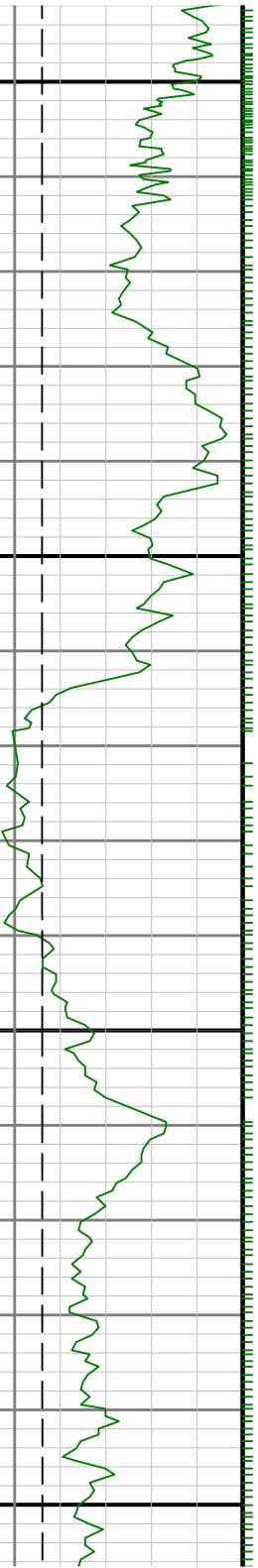
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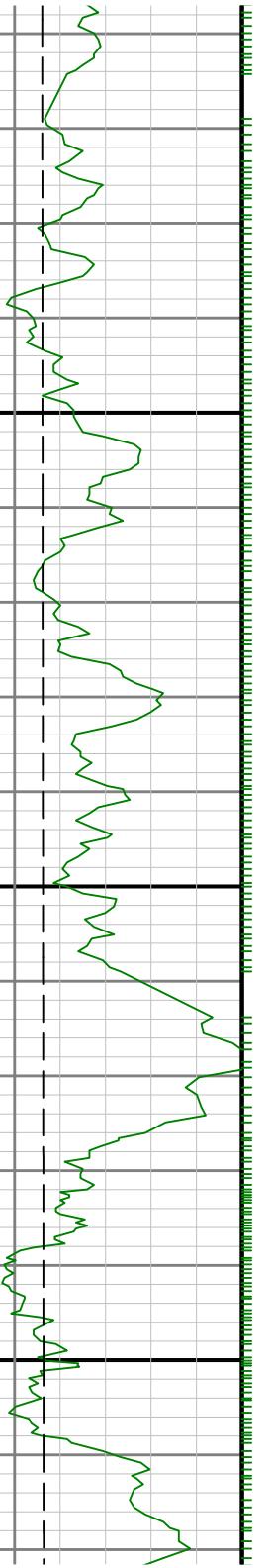




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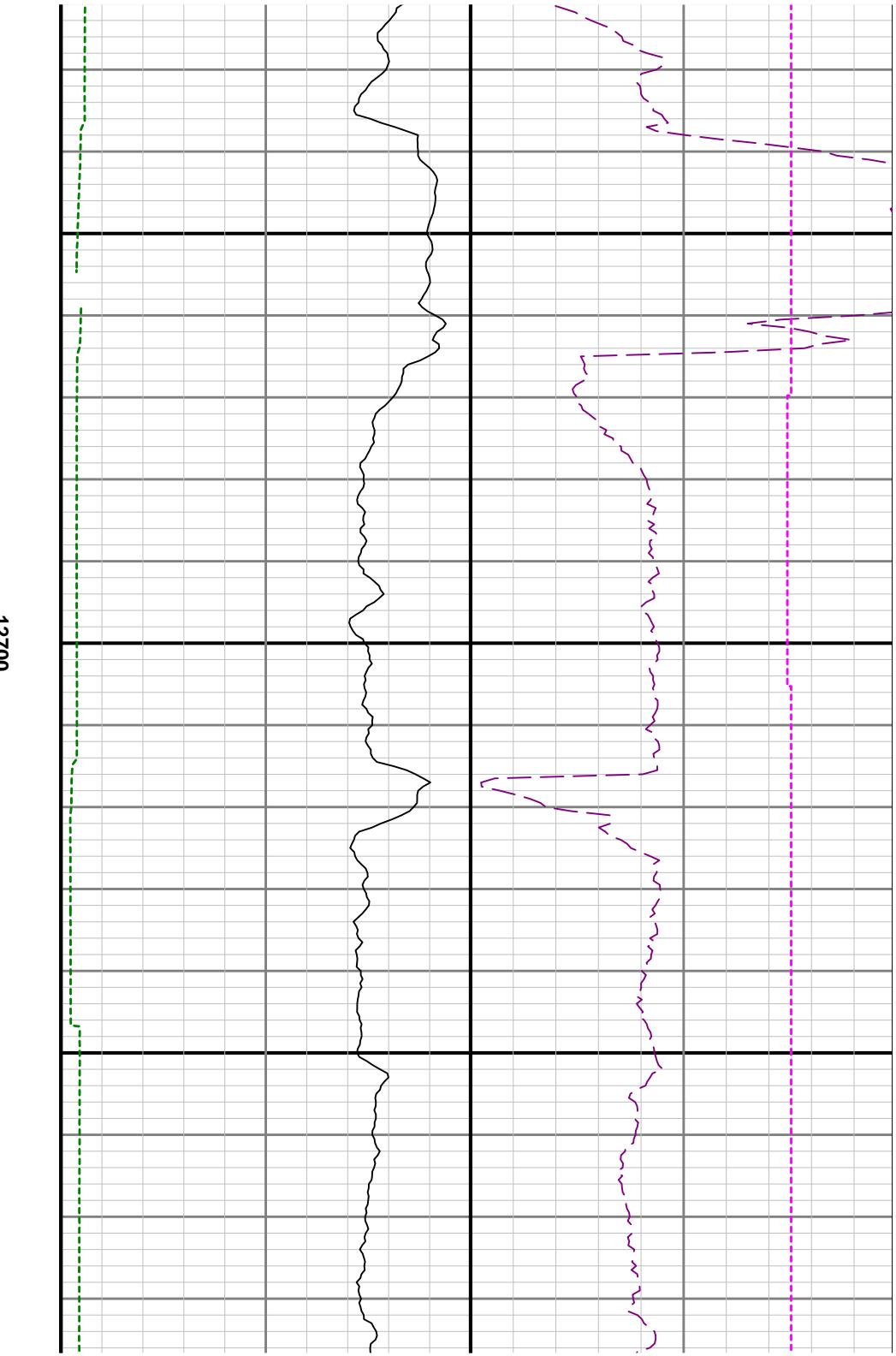
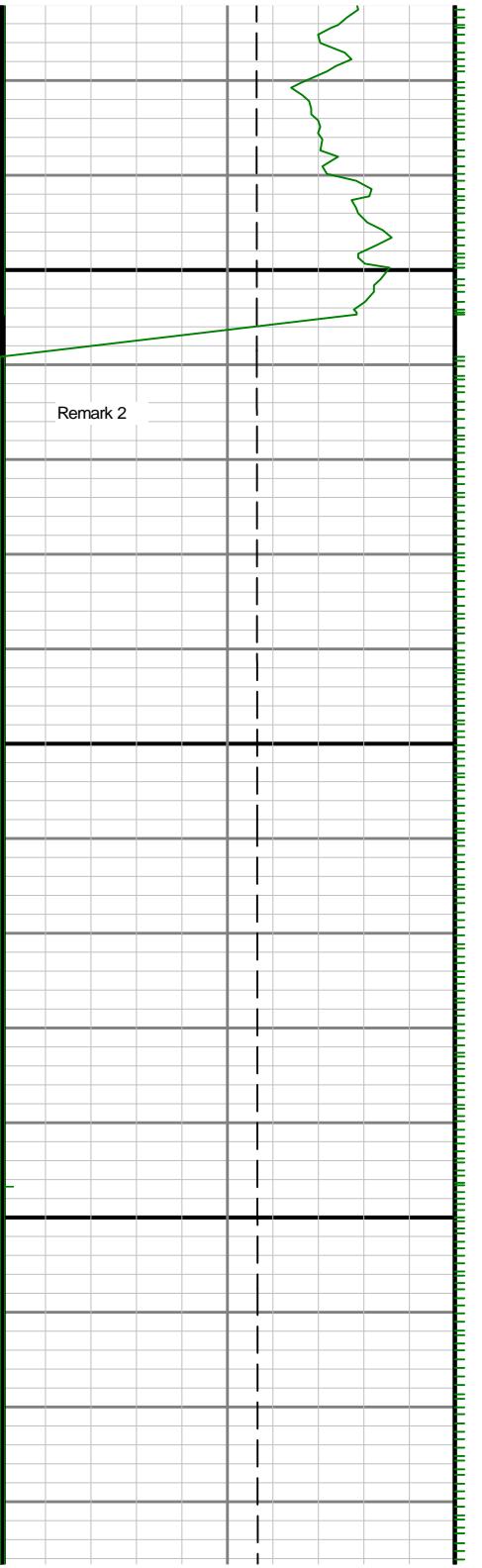
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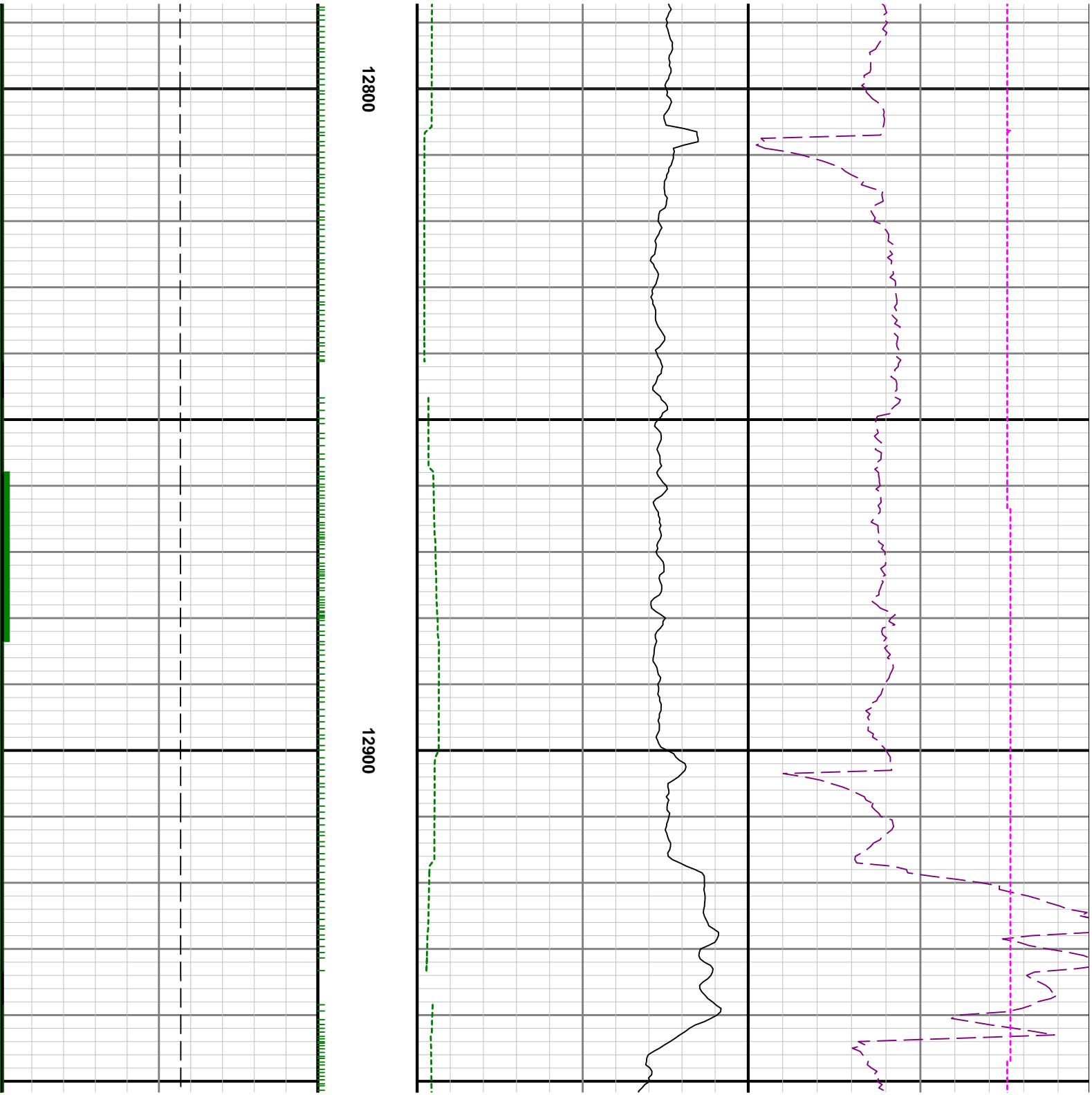


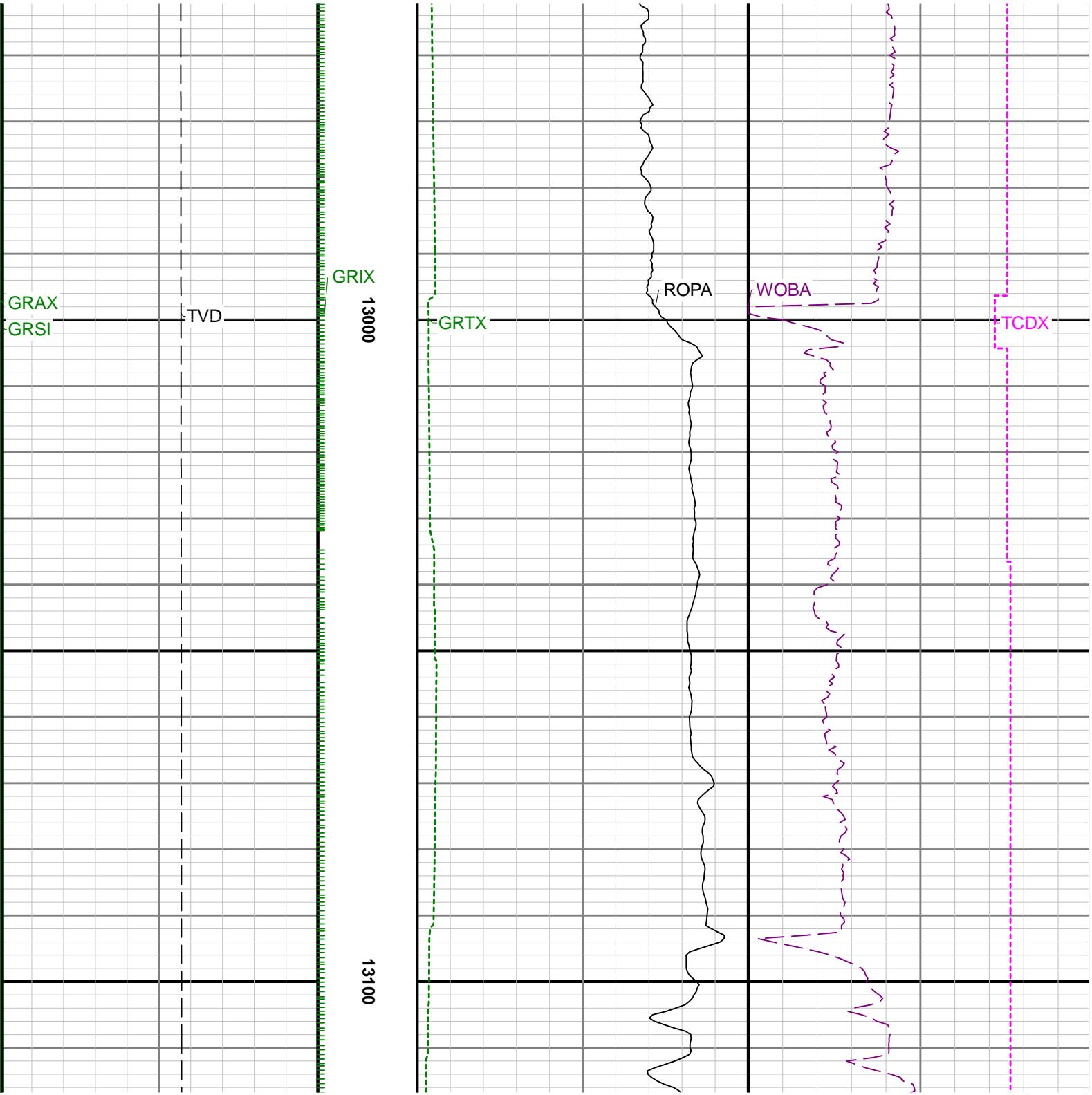
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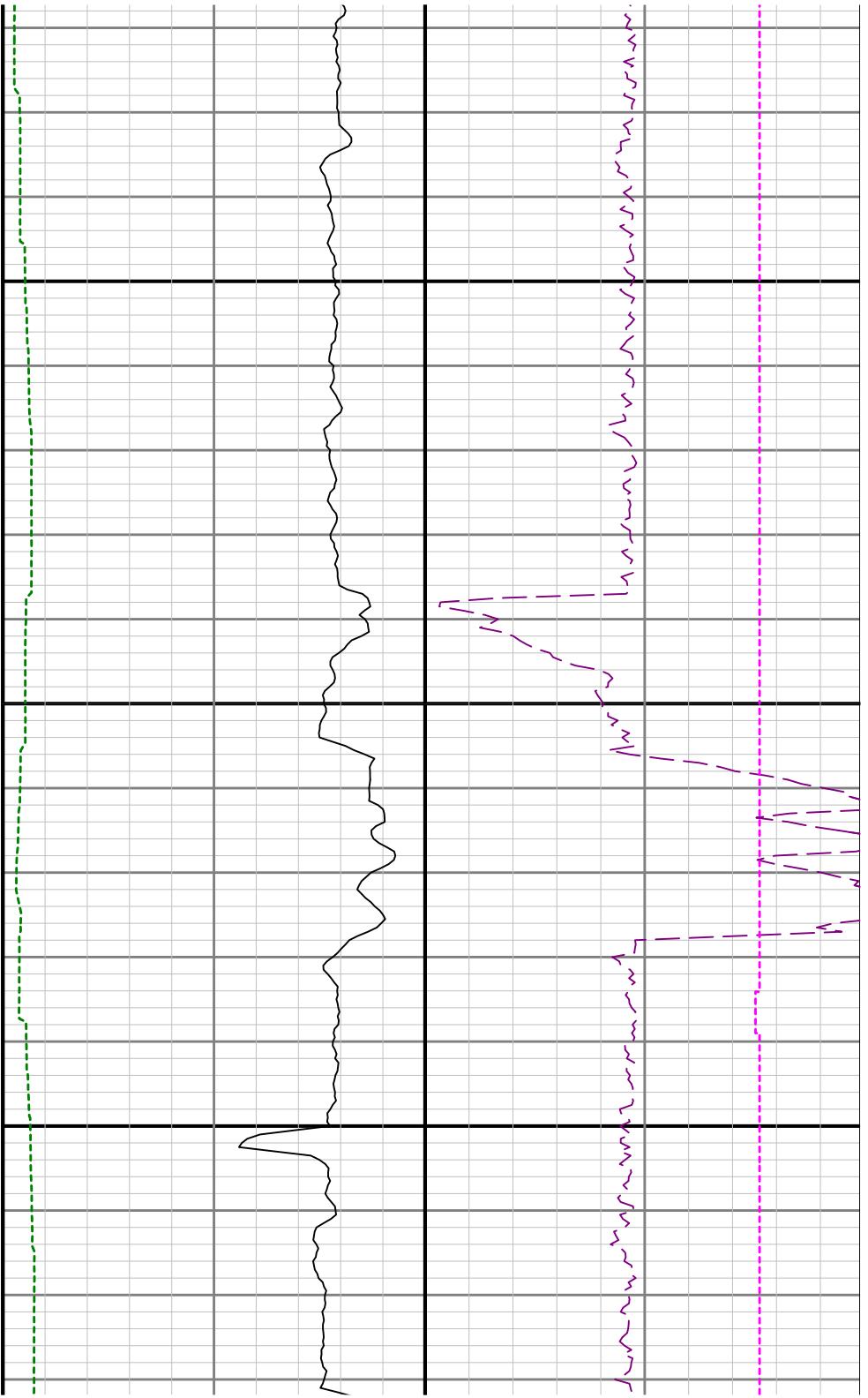








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13300

13400



