



LWD REALTIME LOG COMPOSITE

Natural Formation Evaluation
Gamma Ray

Scale:

1:240 MD

Company: Anadarko

Well: English Farms 15N-8HZ

Depth Reference:

Field: Weld County

Driller's Depth

County: Weld

State: Colorado

Status:

Final Print

Surface Location:

Latitude: 40° 10' 00" N

Longitude: 106° 10' 00" W

Other Services:

API No: 05123415010000

Job ID: 7307359

SEC: 8

TWN: 1N

RGE: 65W

Permanent Datum (P.D.): Ground Level

Elevation: 4948.00 ft

KB: 0.00 ft

Log Measured From: Rig Floor

Above P.D.

DF: 4964.00 ft
GL: 4948.00 ft

Dates

Interval Logged

Magnetic Field Reference

Date From: 2015-06-28

Top: (ft)

6600.00

Azi Reference North: True

Dip Angle: (deg)

66.57

Date To: 2015-07-01

Bottom: (ft)

13372.00

Total Magnetic Field Strength: (nT)

52675

Spud Date: 2015-05-31

Mag to Reference North Correction: (deg)

8.09 E

Borehole Record

Casing Record

Hole Size (in)

From (ft)

To (ft)

Size (in)

Weight (lb/ft)

From (ft)

To (ft)

13.500

0.00

1876.89

9.625

N/A

0.00

1866.00

7.875

1876.89

13372.08

Mud Record

Deviation Record

Type

From (ft)

To (ft)

Hole Size (in)

Interval (ft)

Inc | Az (Start)

Inc | Az (End)

Water Based Mud

0.00

1876.89

13.500

1876.89

0.39 | 119.29

24.11 | 0.38

Diesel-Oil Based Mud

1876.89

13372.08

7.875

11495.19

24.11 | 0.38

89.29 | 175.48

Acquisition System

Software Version

Other

Baker Hughes Cadence

1.0.6955.1

Rig: Xtreme 24

Prior Studio

1.0.7056.2

Contractor: Xtreme Drilling

District: RMA

Unit: D & E


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3	NaviGamma	12738922	Gamma (single)	9.30	46.81	6.750	2.687
3	NaviGamma	12738922	Directional (mag)	12.64	52.15	6.750	2.687
3	NaviGamma	12738922	VSS	15.77	55.28	6.750	2.687
4	NaviGamma	12738922	Gamma (single)	9.30	40.35	6.750	2.687
4	NaviGamma	12738922	Directional (mag)	12.64	43.69	6.750	2.687
4	NaviGamma	12738922	VSS	15.77	46.82	6.750	2.687

Comments							
1	Baker Hughes run 1 utilized a 6.75 inch NaviGamma (Directional and Gamma Ray) tool ran behind an 13.5 inch bit with a steerable assembly from Surface to 1876 feet MD (0 to 1876 feet TVD).						
2	Baker Hughes Runs 2,3 and 4 utilized a 6 3/4 inch NaviGamma (Directional and Gamma Ray) tool ran behind an 7 7/8 inch bit with a steerable assembly from 1876 to 13372 feet MD (1875 to 7075 feet TVD).						
3	A sliding indicator is shown on the left side of track 1 as a heavy line. The indicator has been 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	6600.00	7.875	2	The interval from surface to 6600 feet MD was not logged due to directional only services required up to the curve.
2	9830.00	7.875	3	The interval from 9825 to 9869 feet MD (7080 feet TVD) was logged up to 18 hours after being drilled due to trip out of hole to change BHA motor failure.
3	12320.00	7.875	4	The interval from 12301 to 12353 feet MD (7062 feet TVD) was logged up to 18 hours after being drilled due to trip out of hole to change BHA, motor was exchanged for a slick and stabilizers removed after unsuccessful attempts to get the bit to bottom.
4	13350.00	7.875	4	The interval from 13333 to 13372 feet MD (7075 feet TVD) has no GRAX, GRIX or GRTX due to the Gamma Ray sensor offset to bit.

Curve Mnemonics		
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
GRAX	Gamma Ray - Apparent 0.5 ft Average	API
GRIX	Gamma Ray - Data Point Indicator	unitless
GRTX	Gamma Time Since Drilled	min
GRSI	Sliding Indicator Flag	unitless
TCDX	Downhole Temperature	degF
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb

	Company		Anadarko		
	Well		English Farms 15N-8HZ		
	Interval	Date From:	2015-06-28 03:35	Top:	6600.00
		Date To:	2015-07-01 09:44	Bottom:	13372.00

Gamma Ray Apparent 0.5 ft Average GRAX

0 150

API

True Vertical Depth TVD

8000 6400

ft

MD 1:240 feet

Rate of Penetration 3 ft Average ROPA

1000 0

ft/h

Gamma Ray Time Since Drilled GRTX

0 600

min

Surface Weight On Bit 1 ft Average WOBA

0 50 100

klb

Downhole Temperature TCDX

0 300

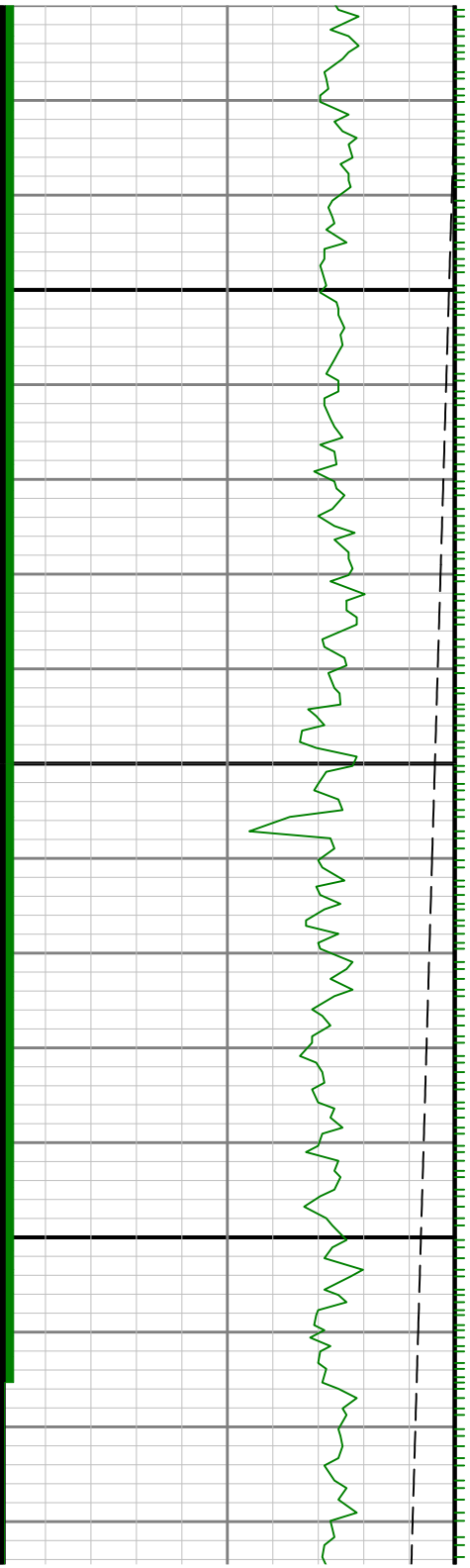
degF

See Remark 1

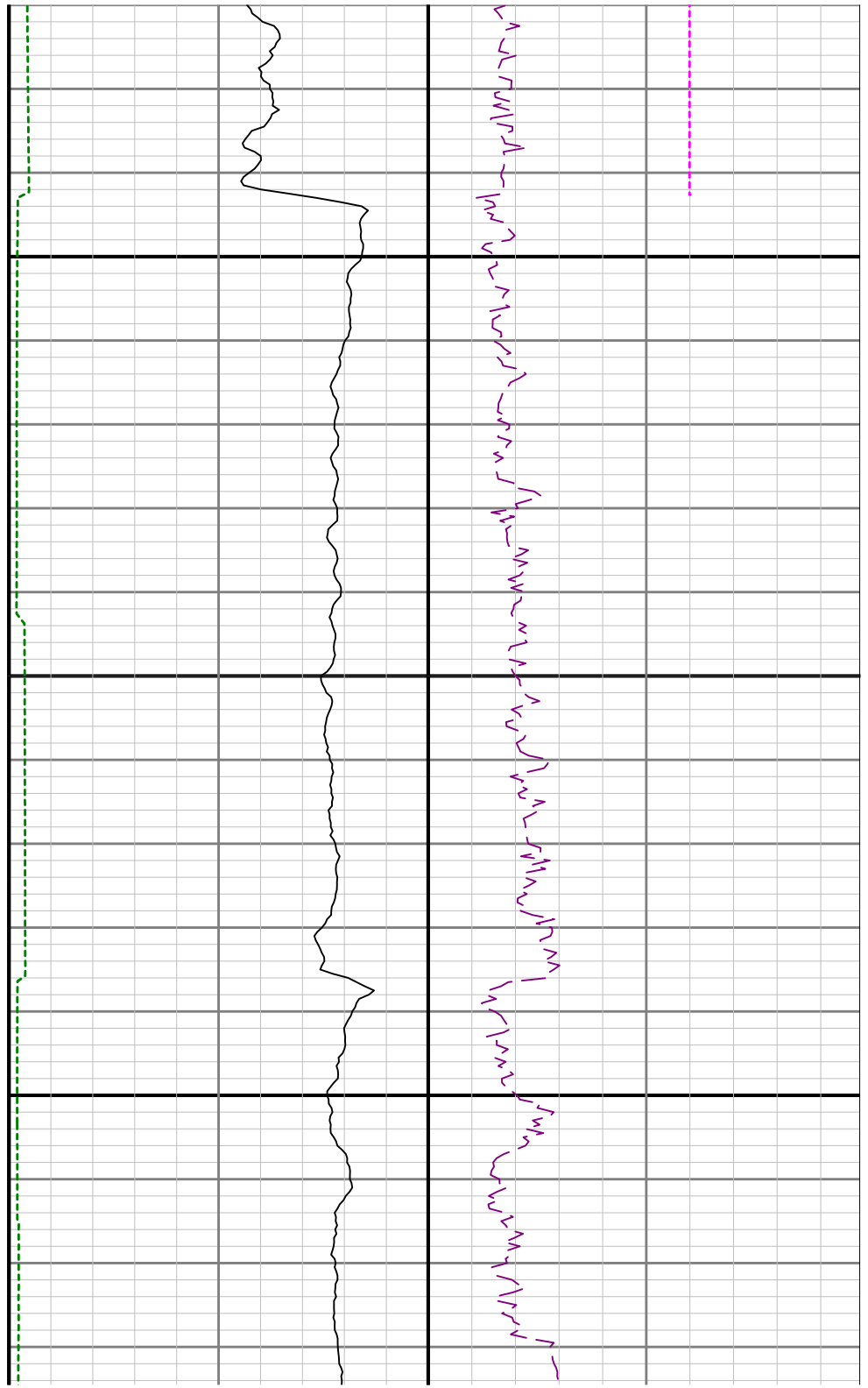
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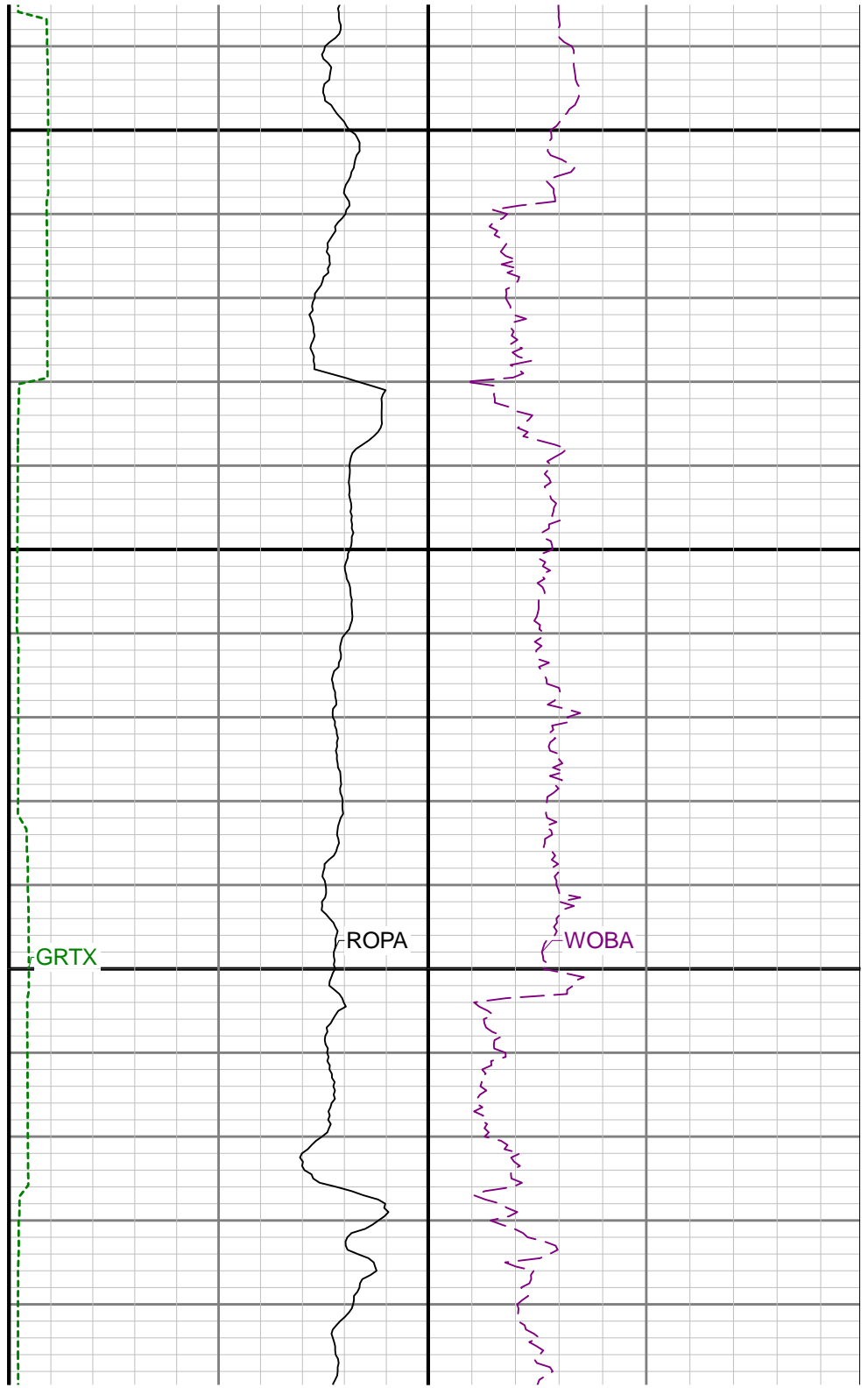
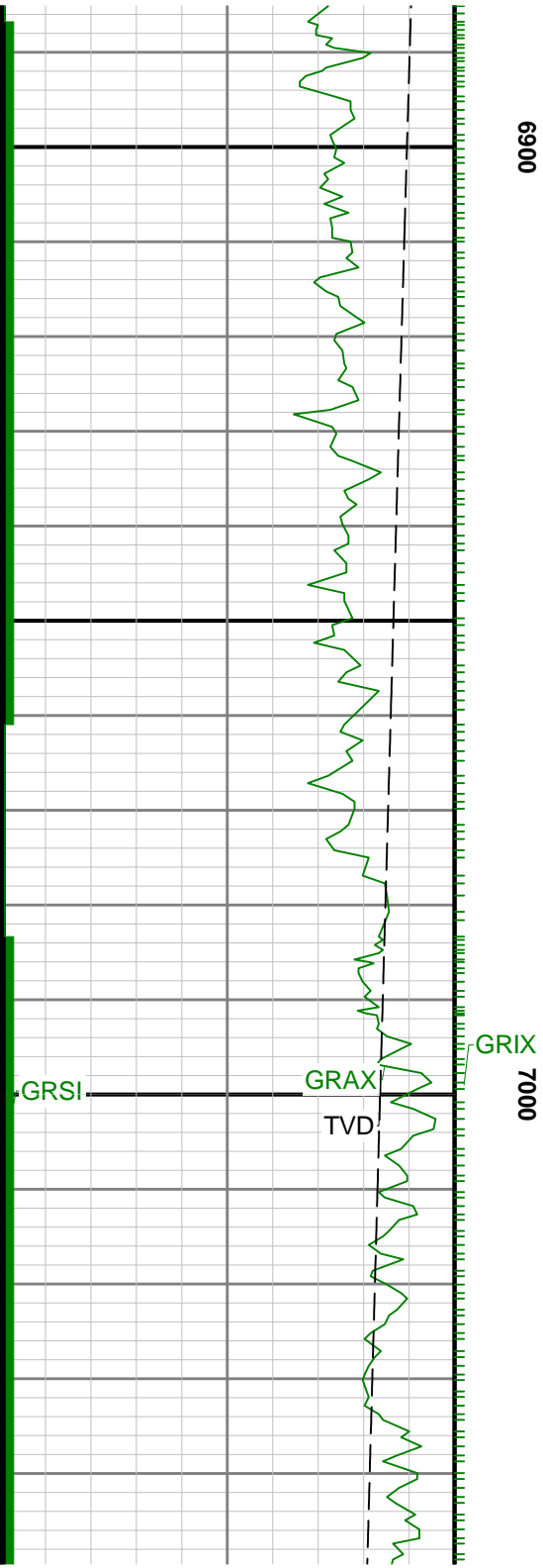
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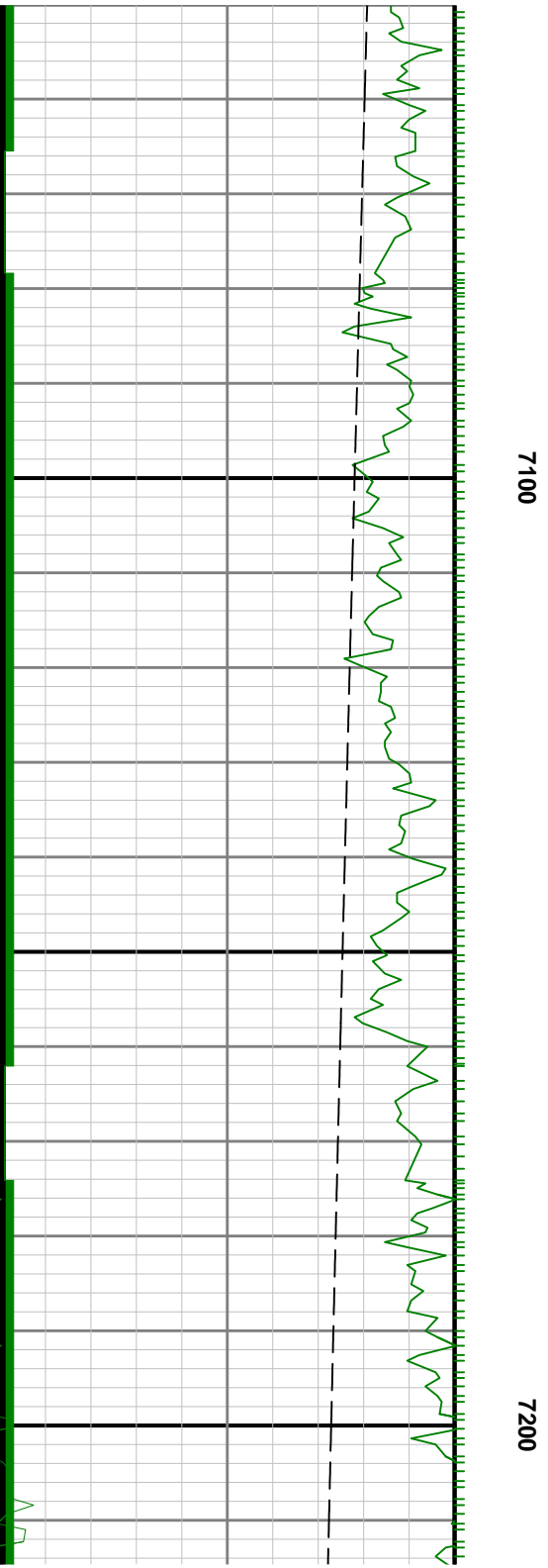
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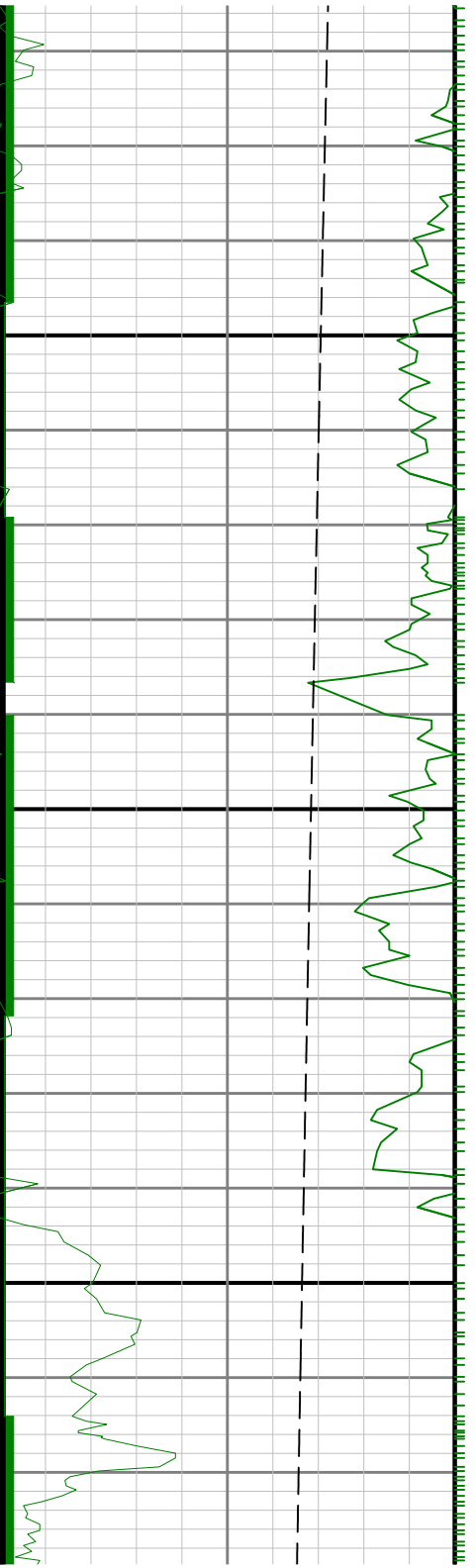


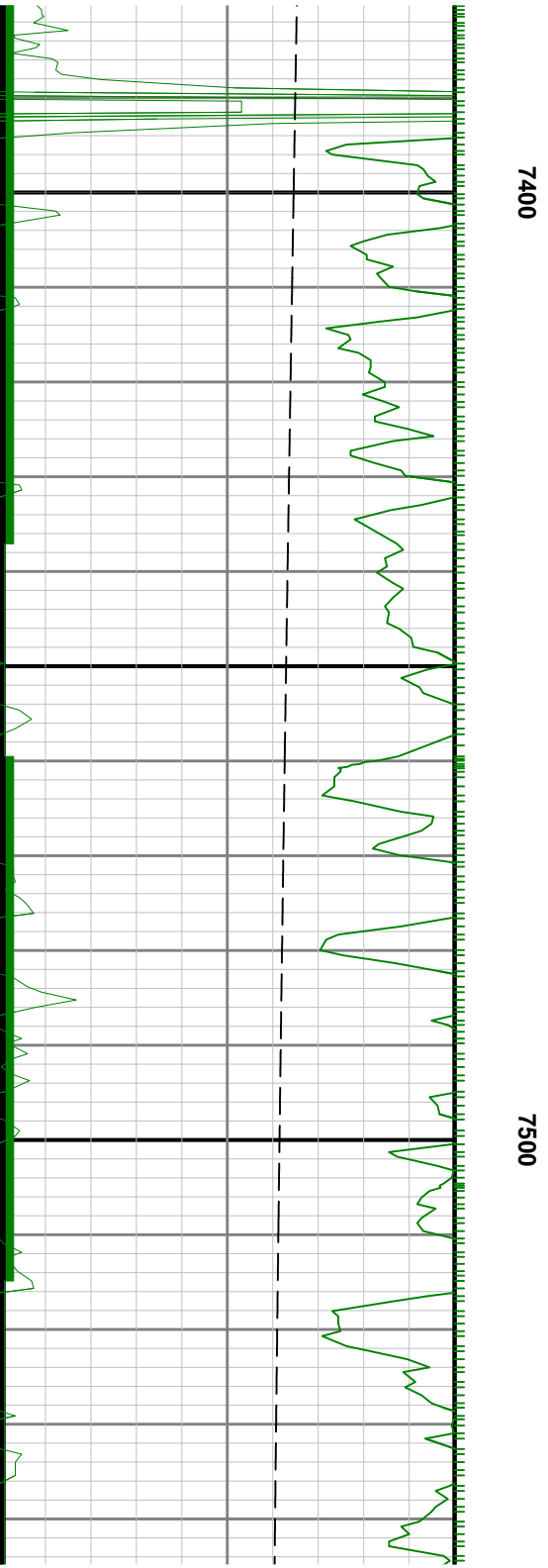
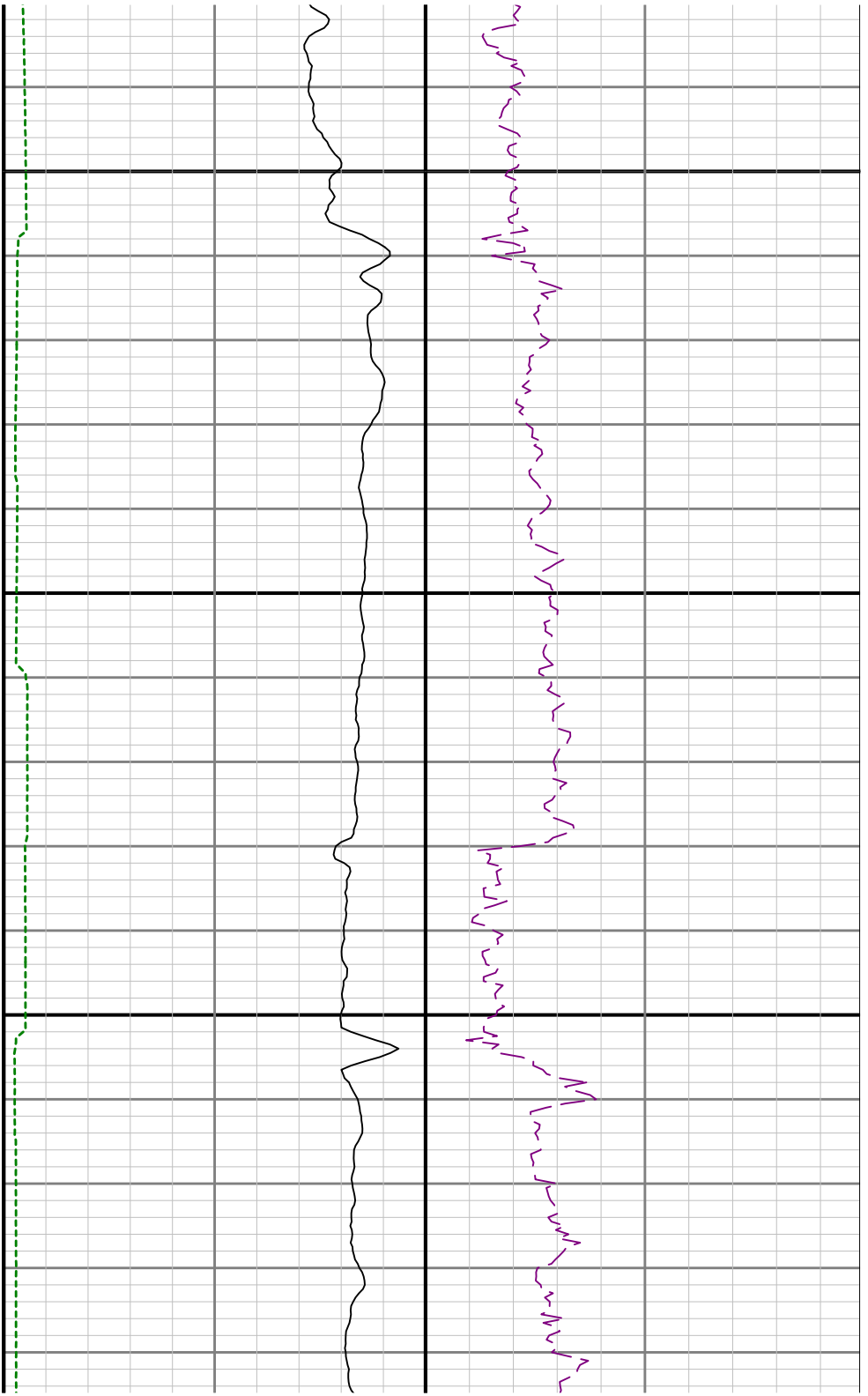


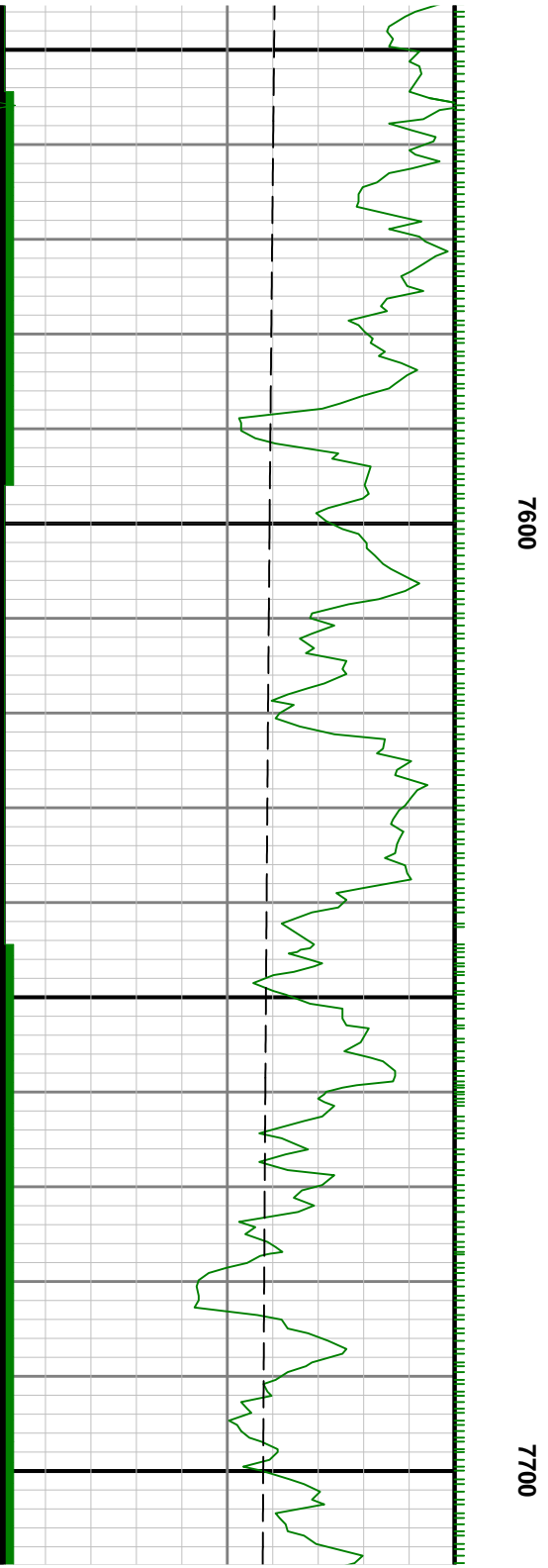
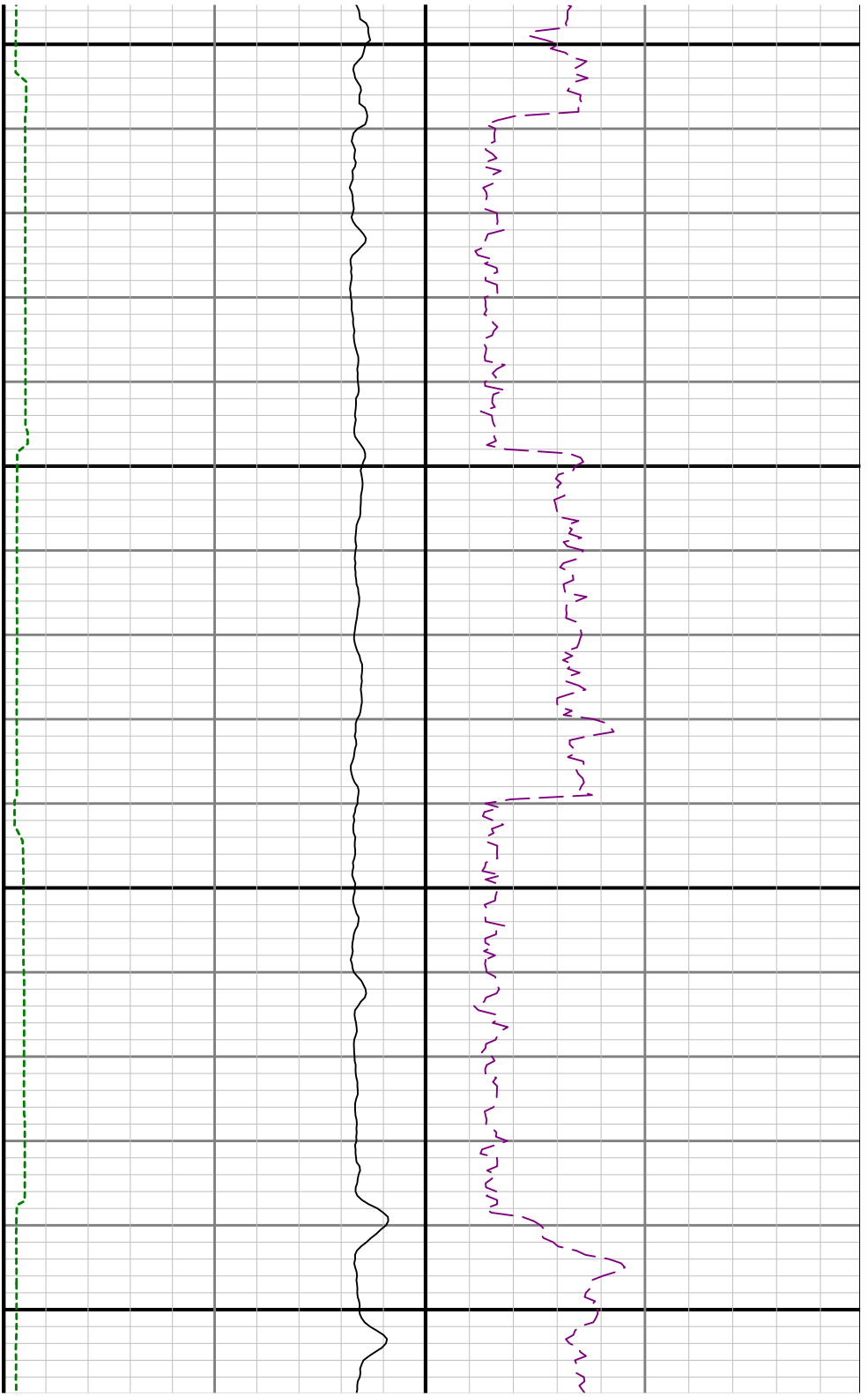


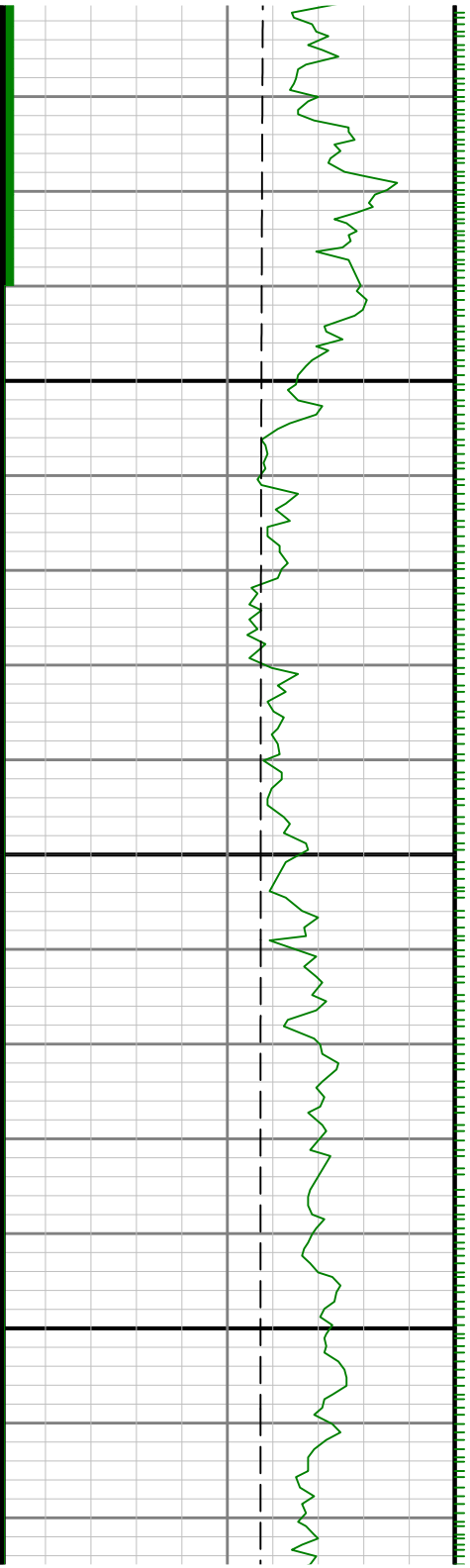
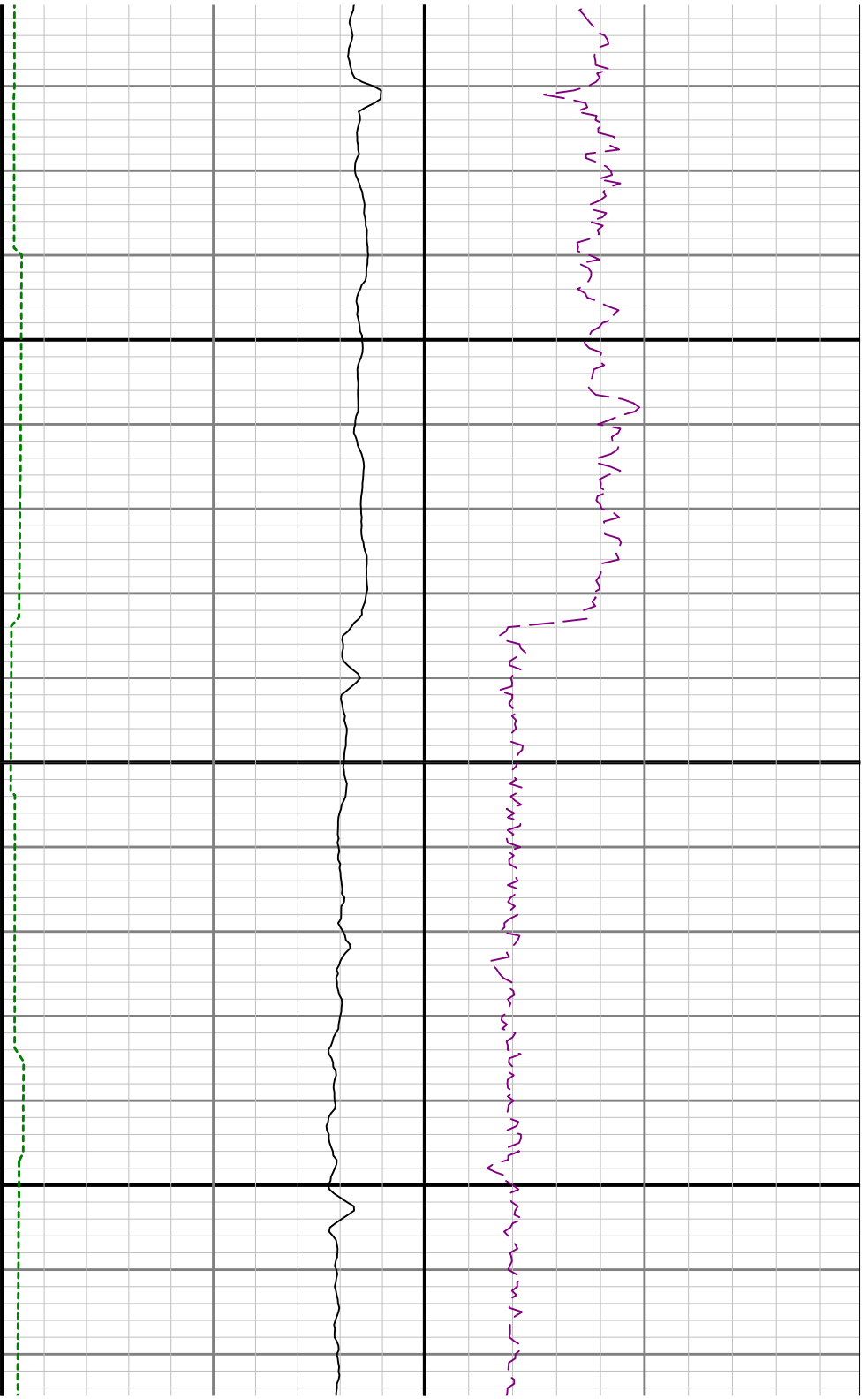


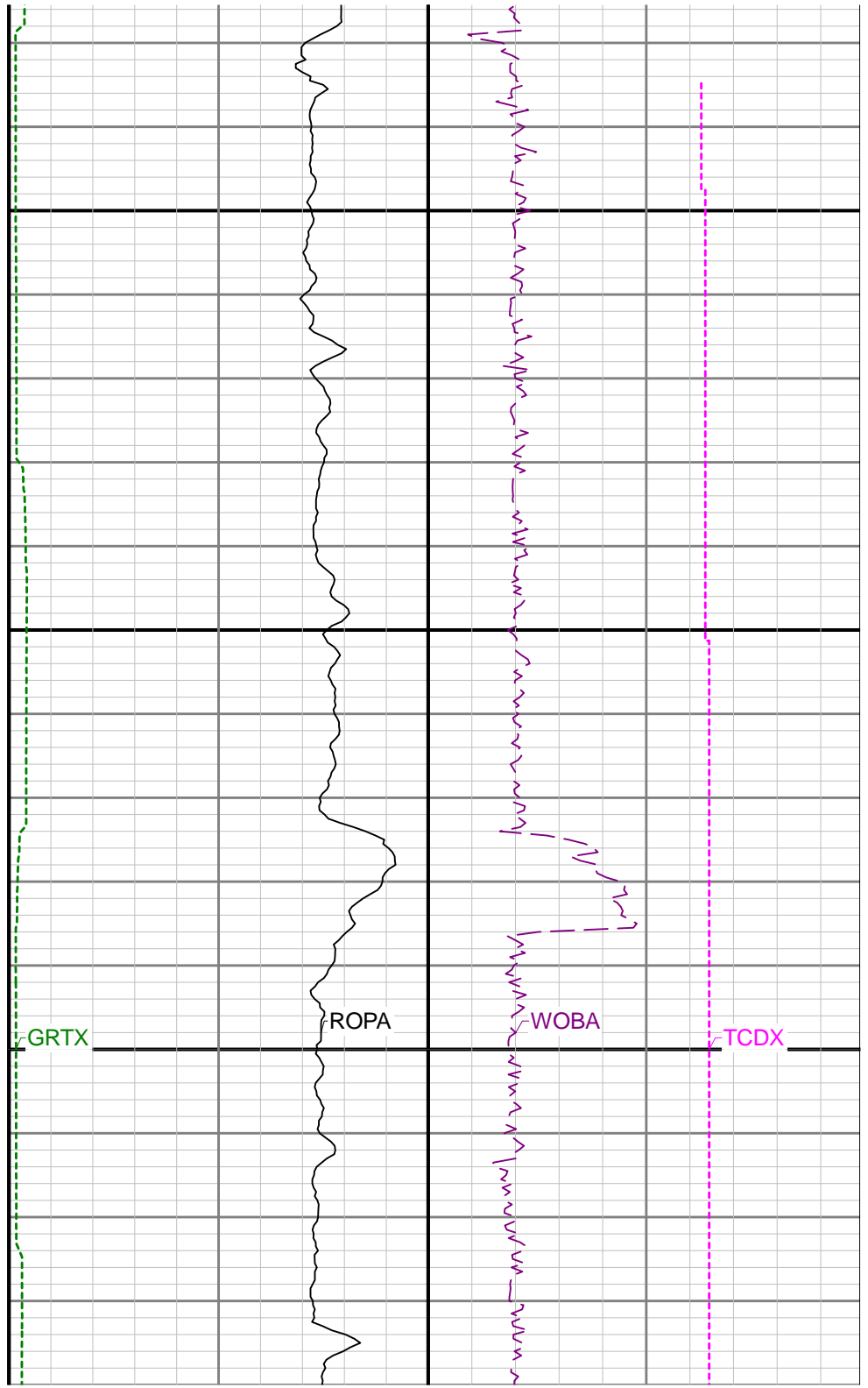
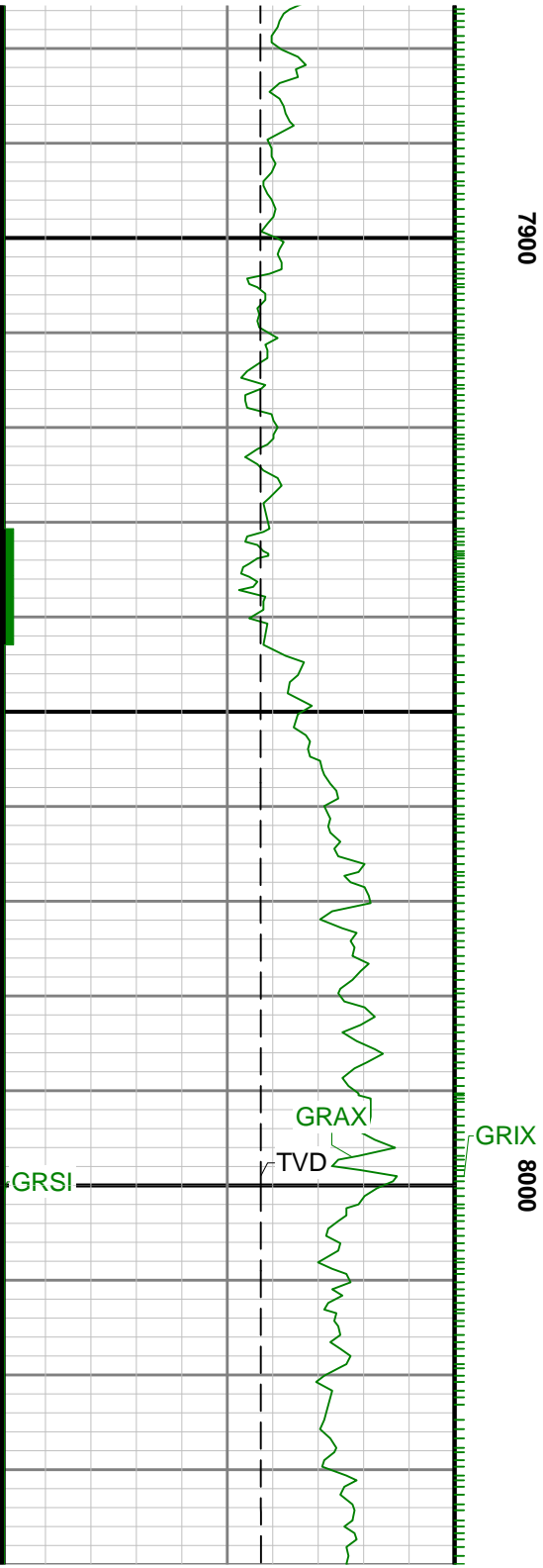
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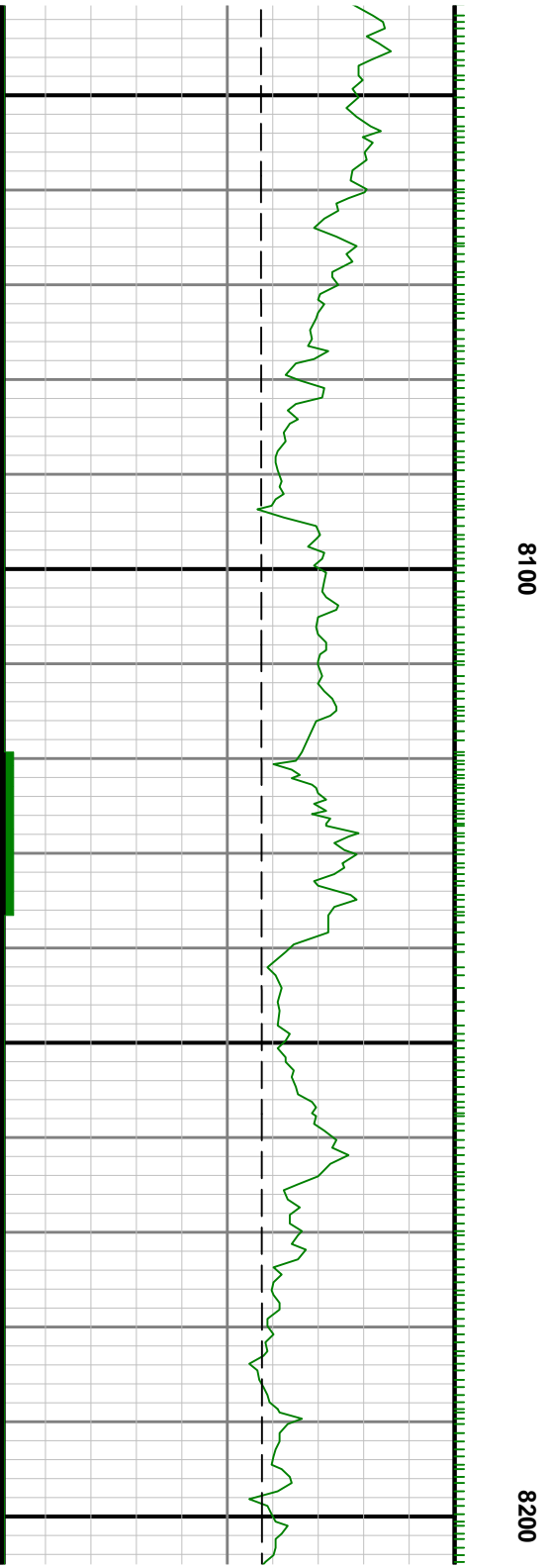
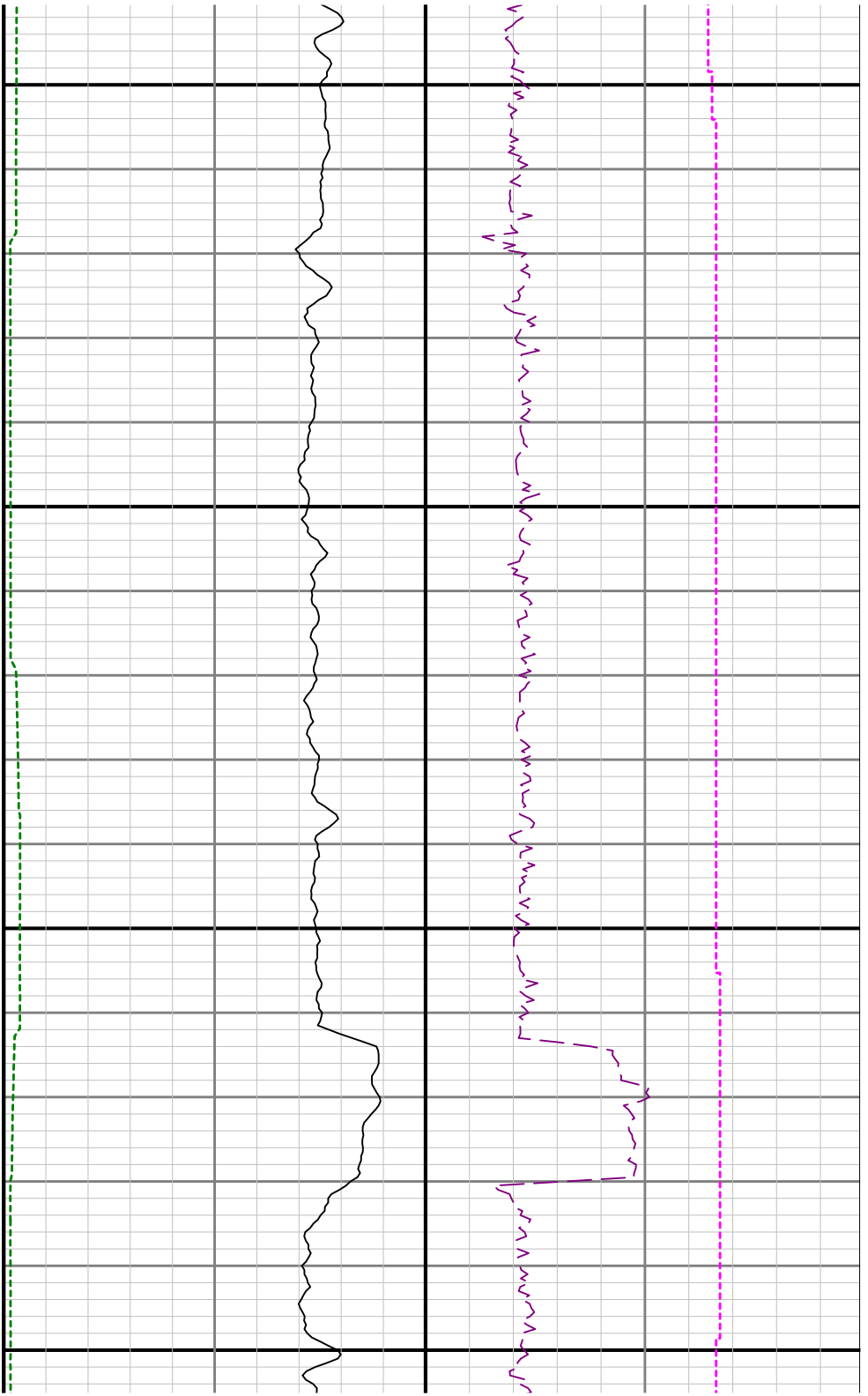


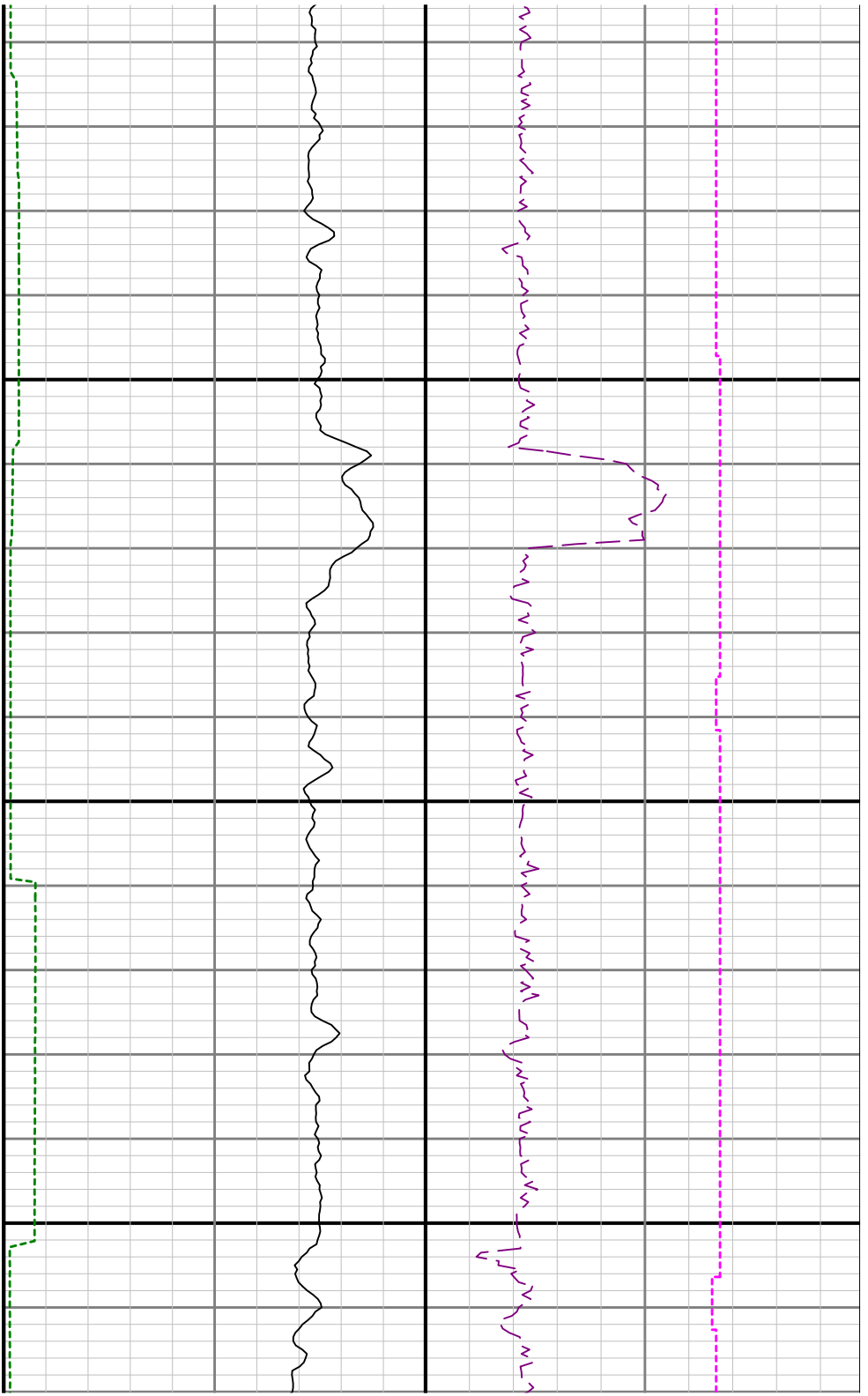




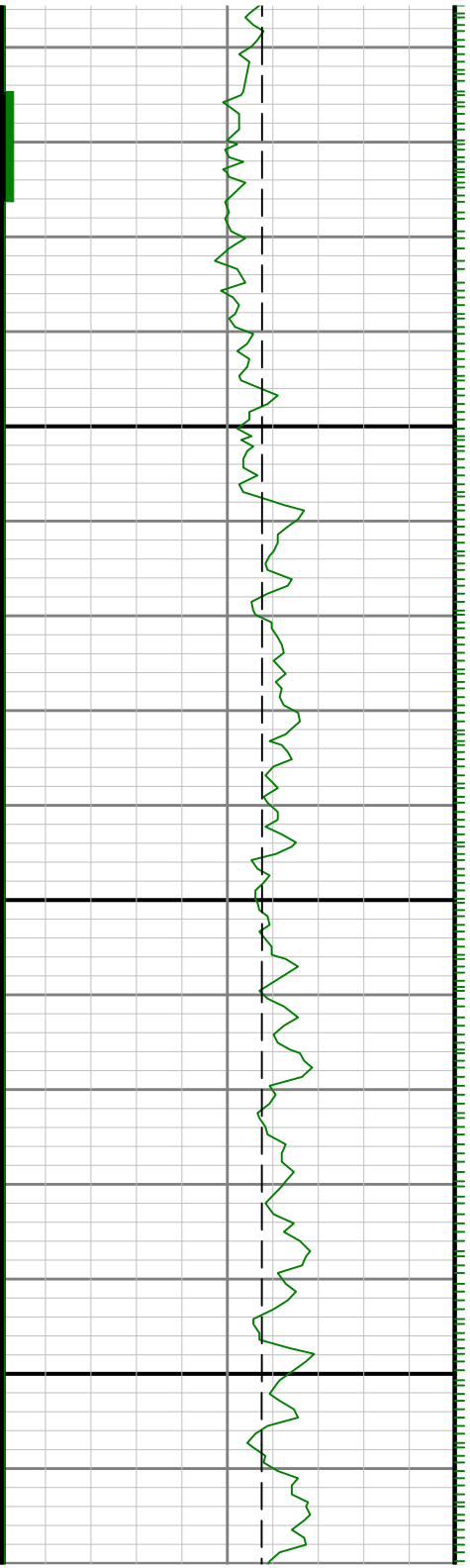


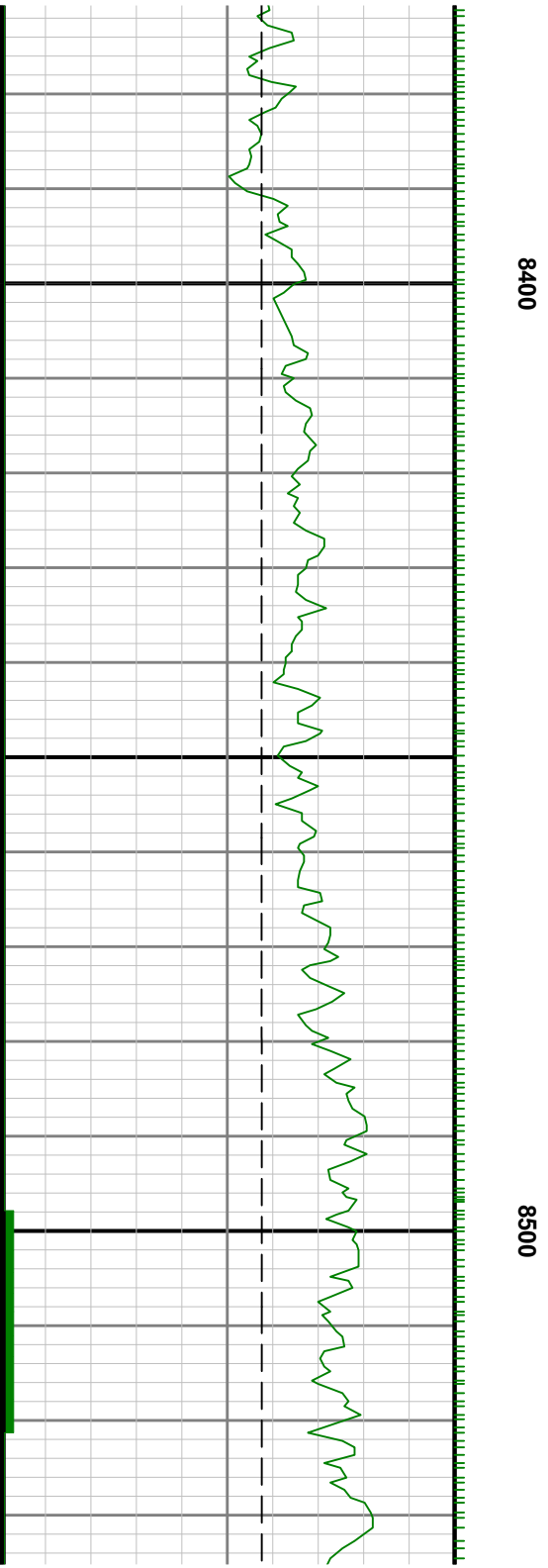
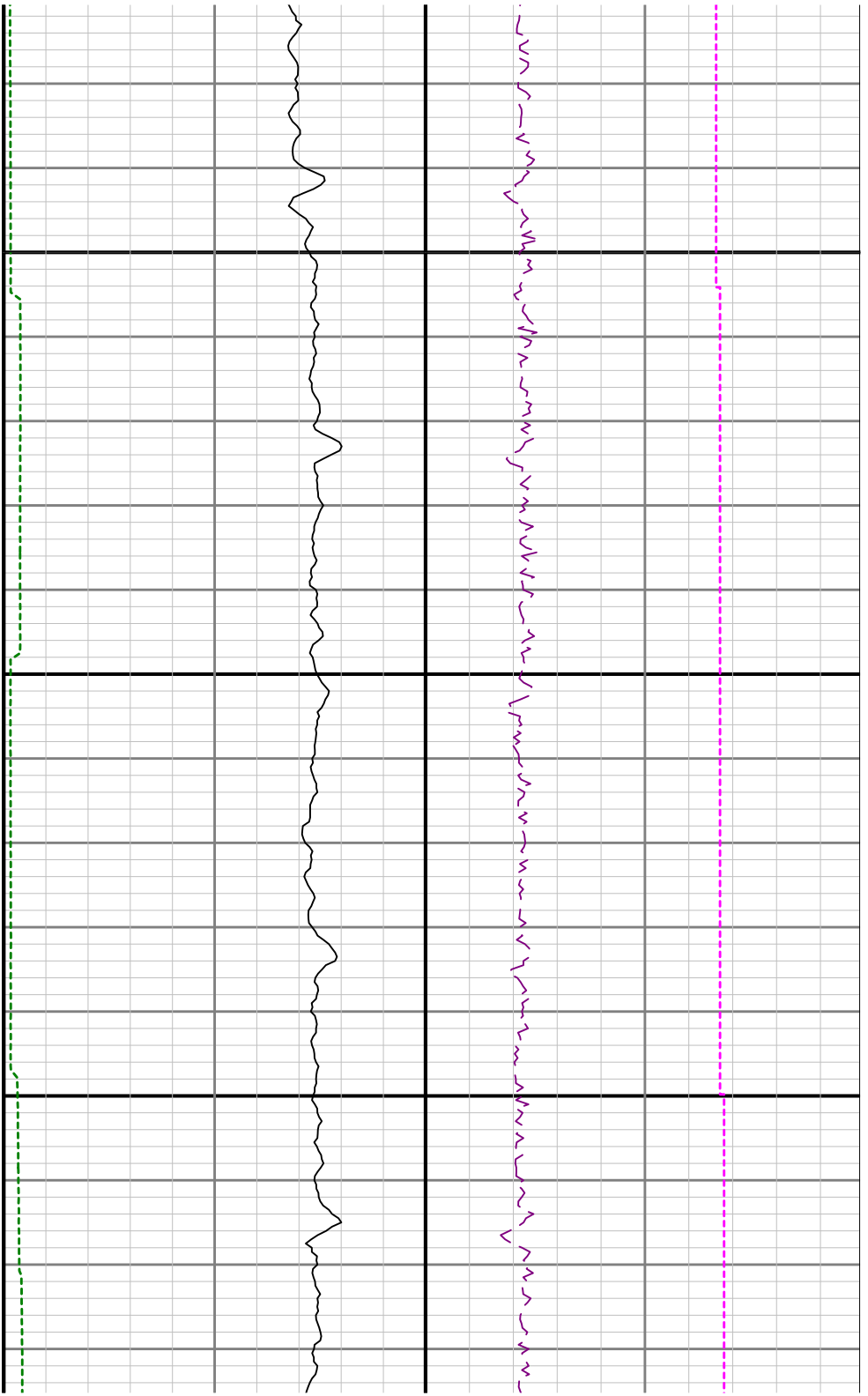


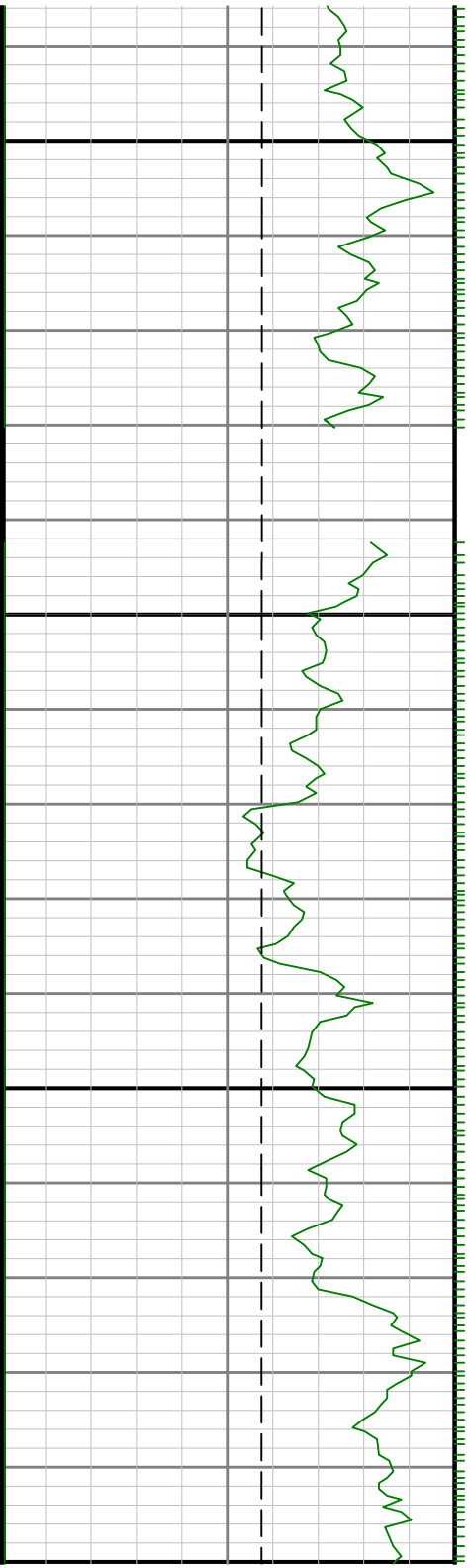




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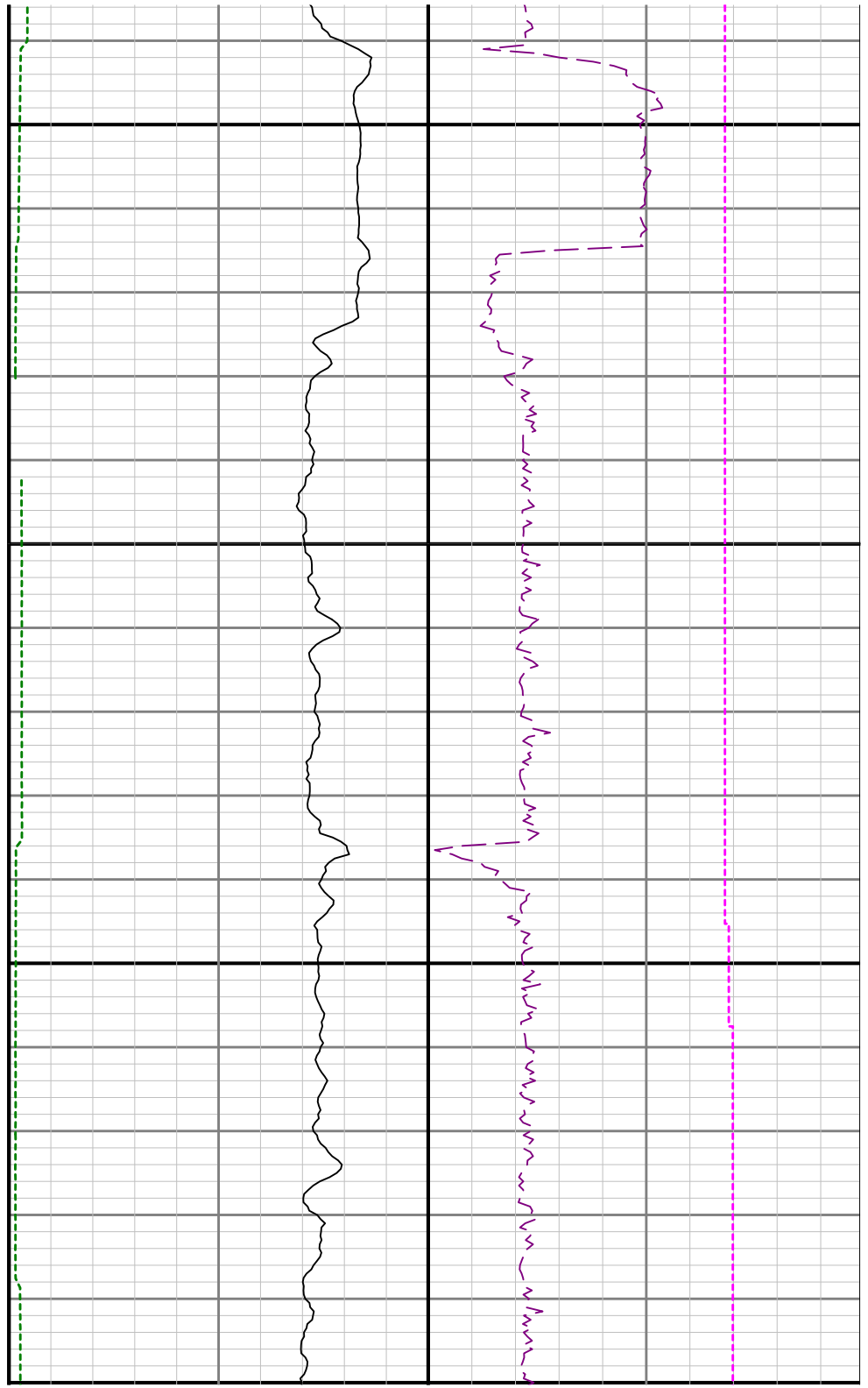


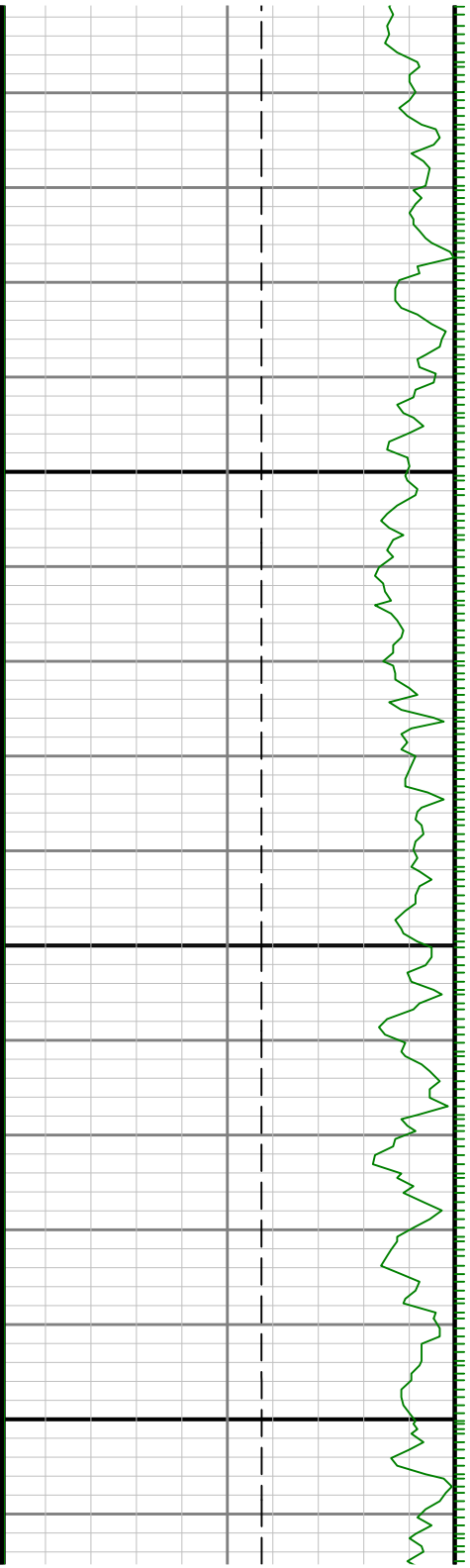




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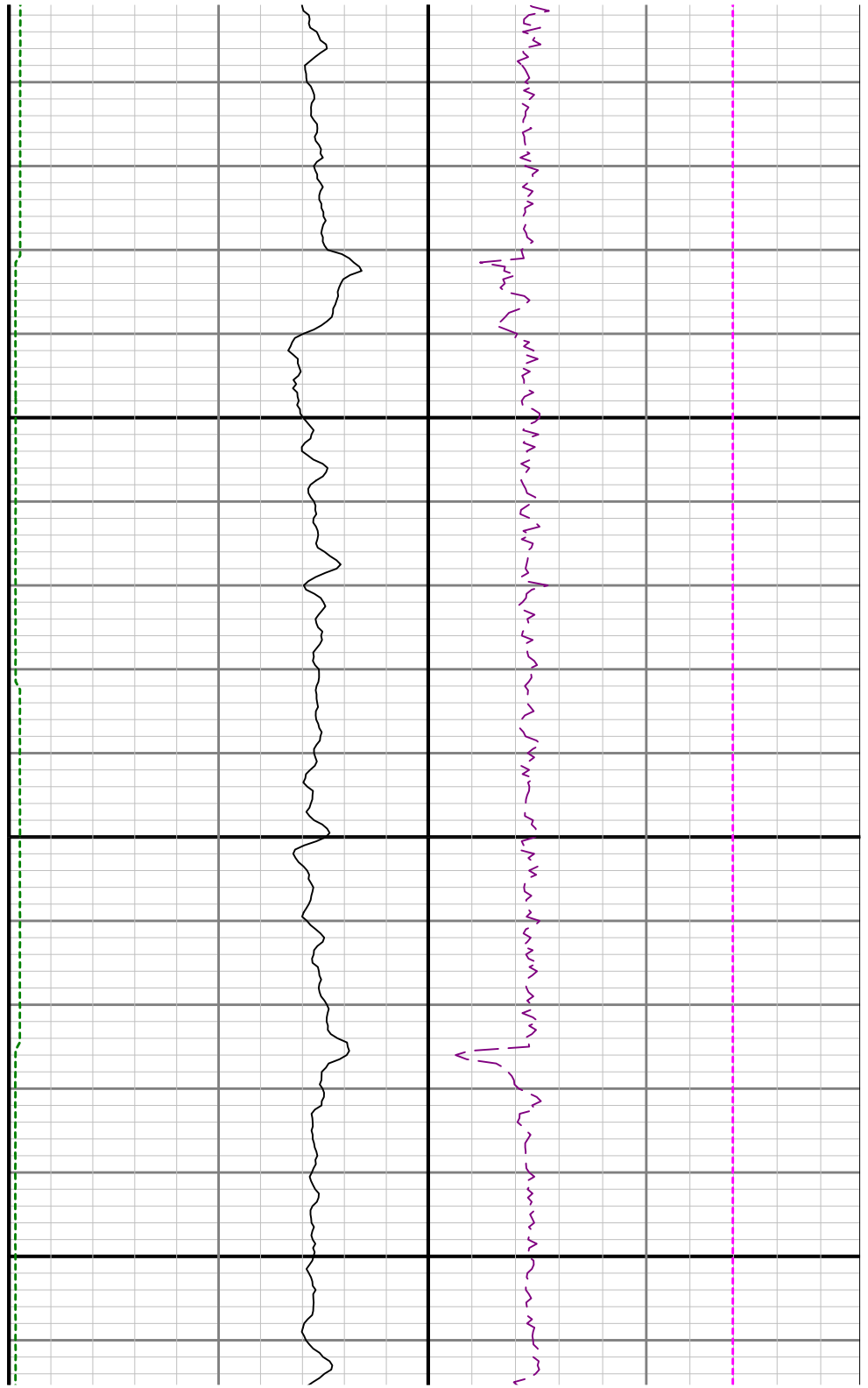
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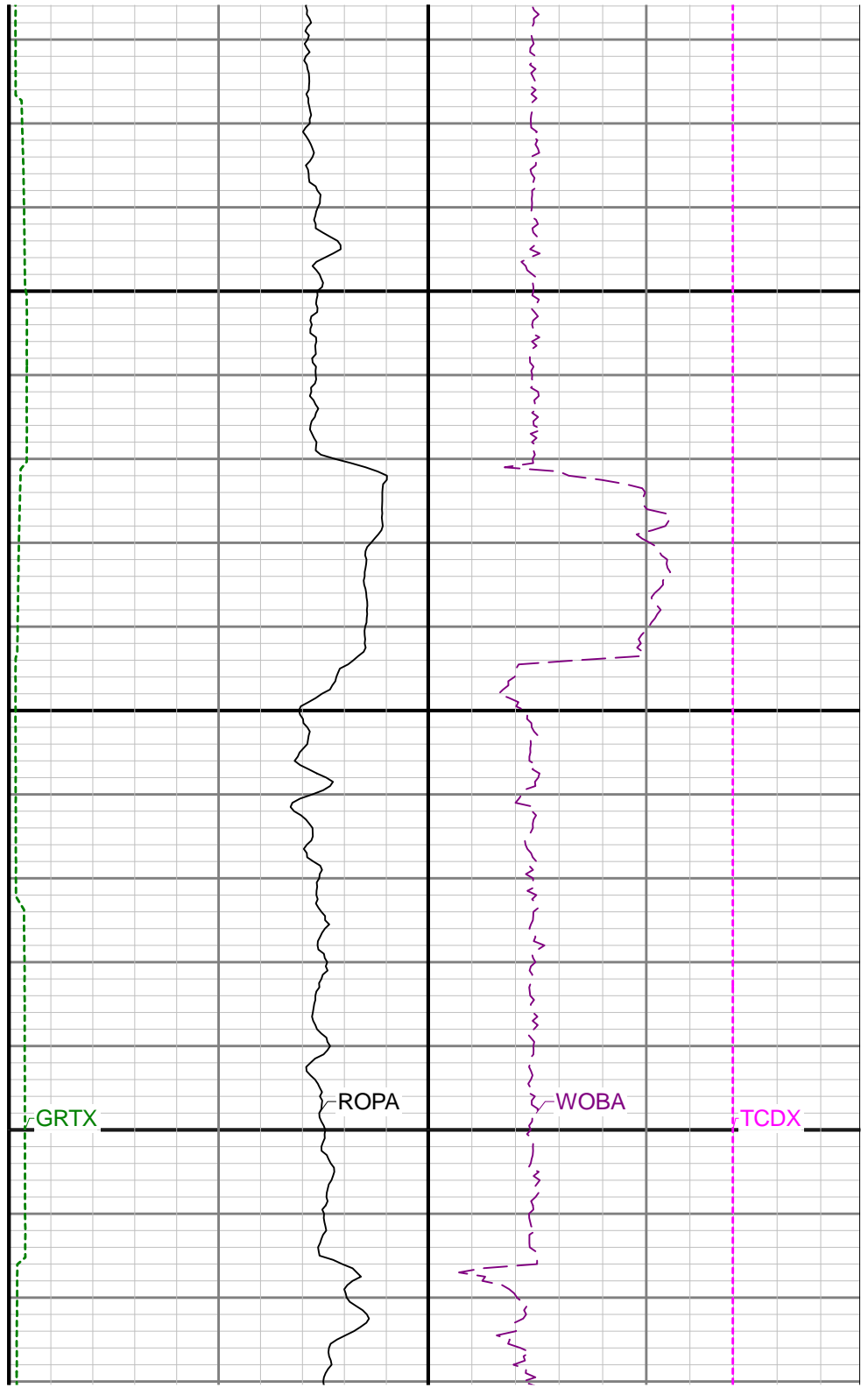
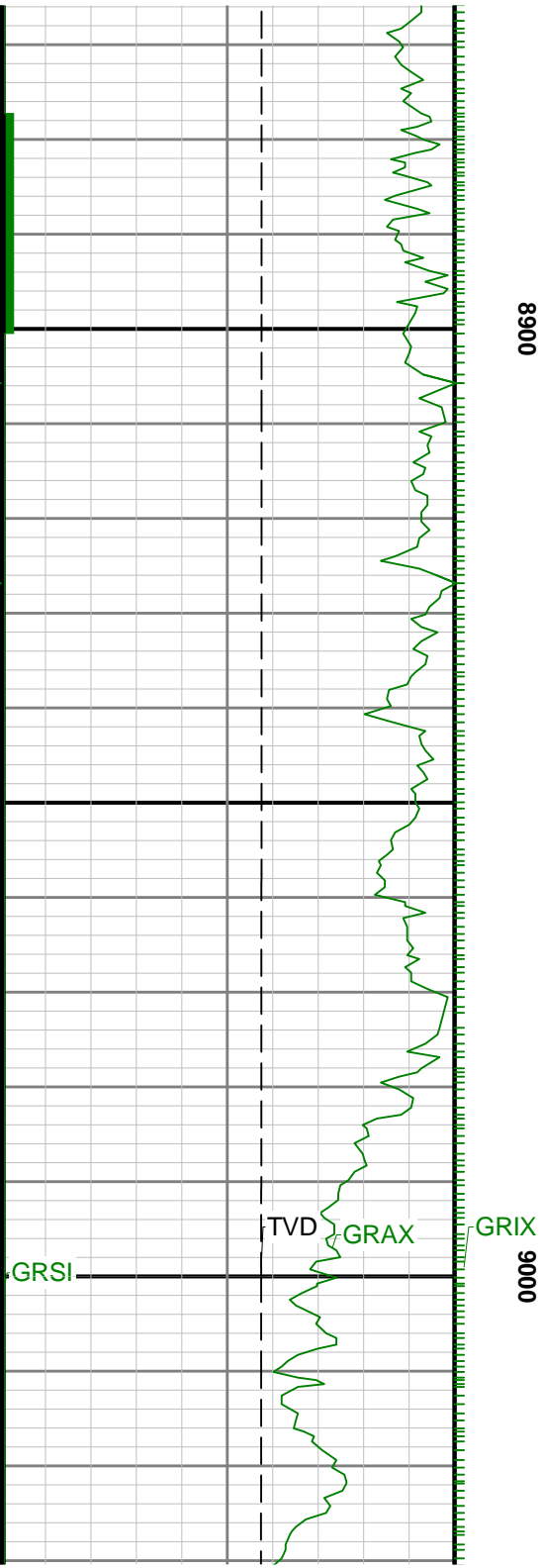


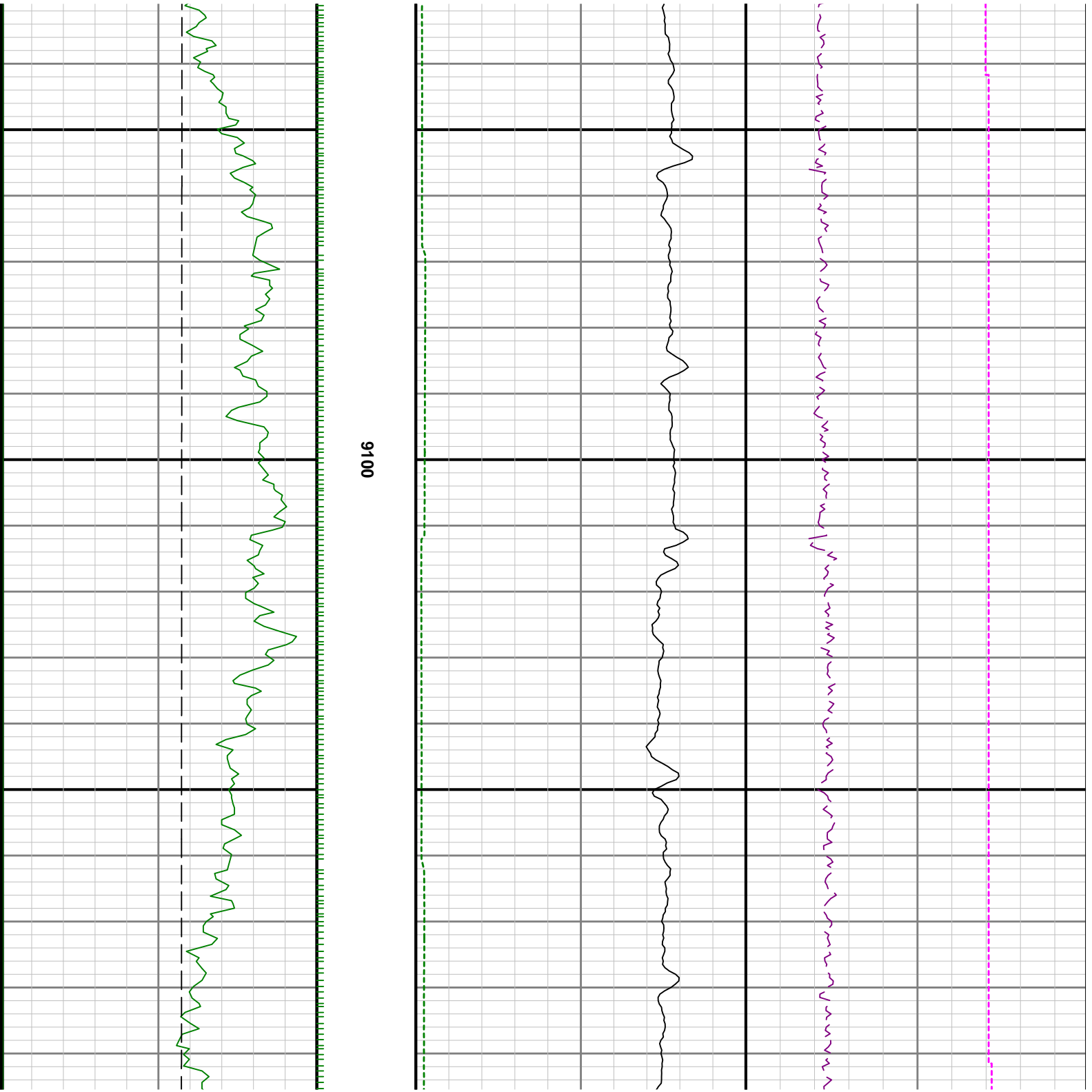


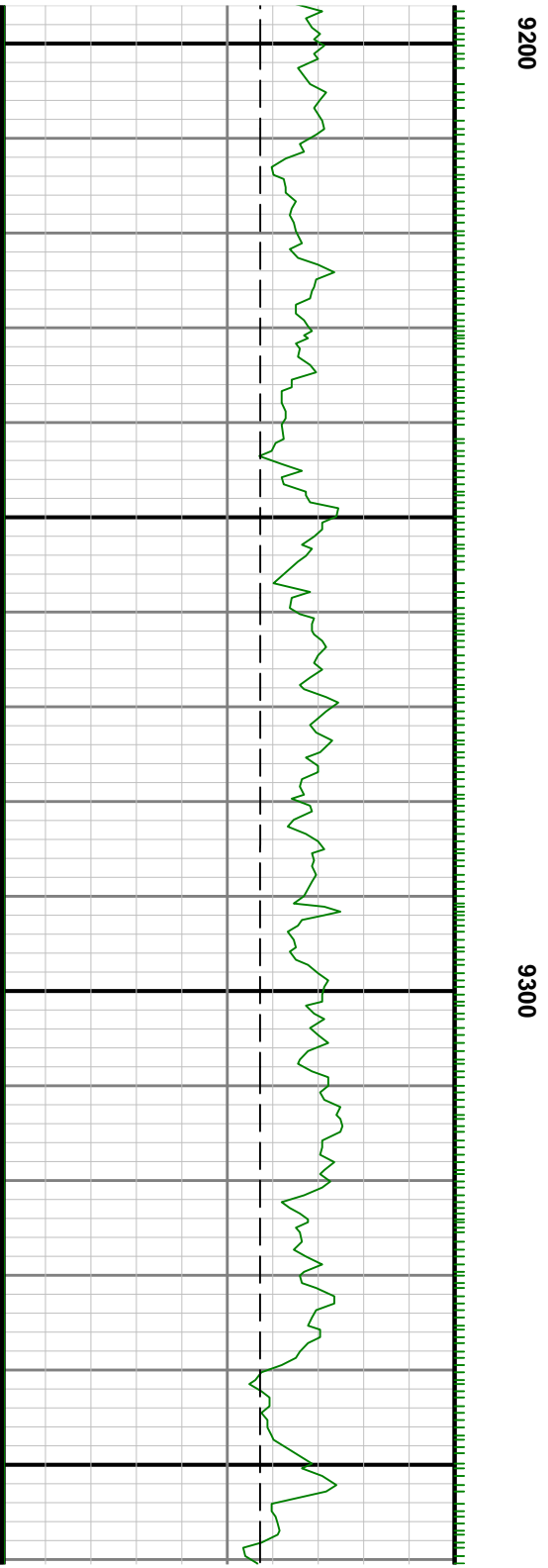
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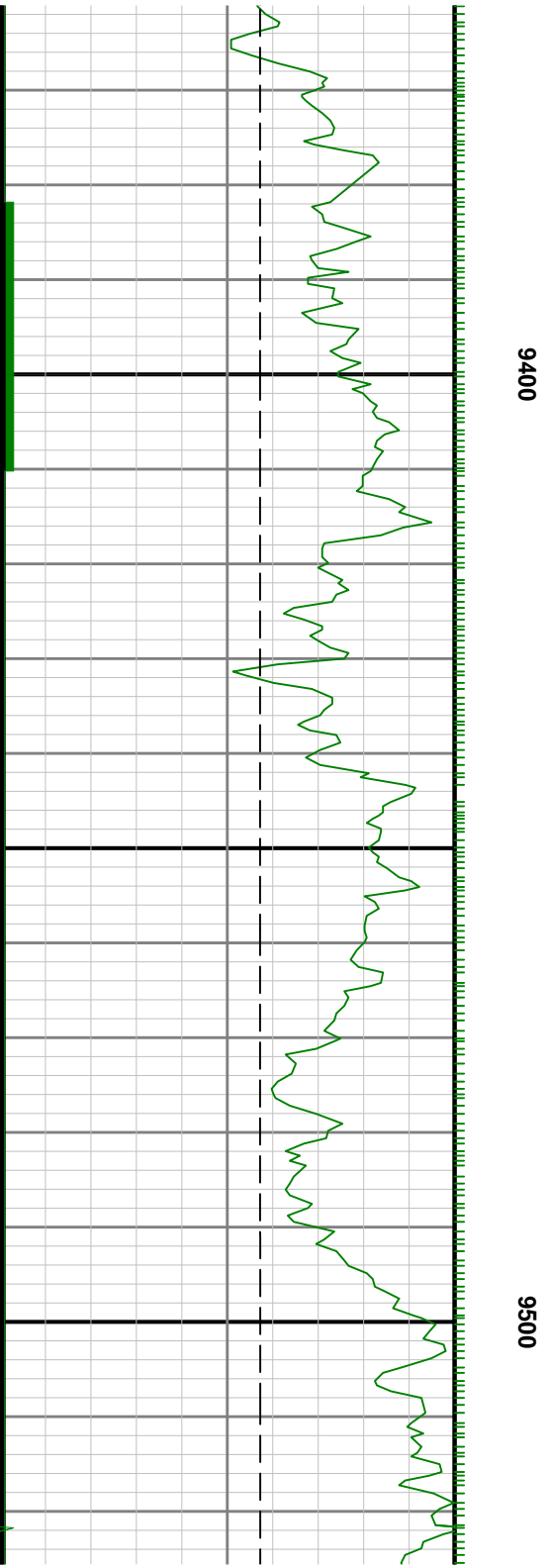
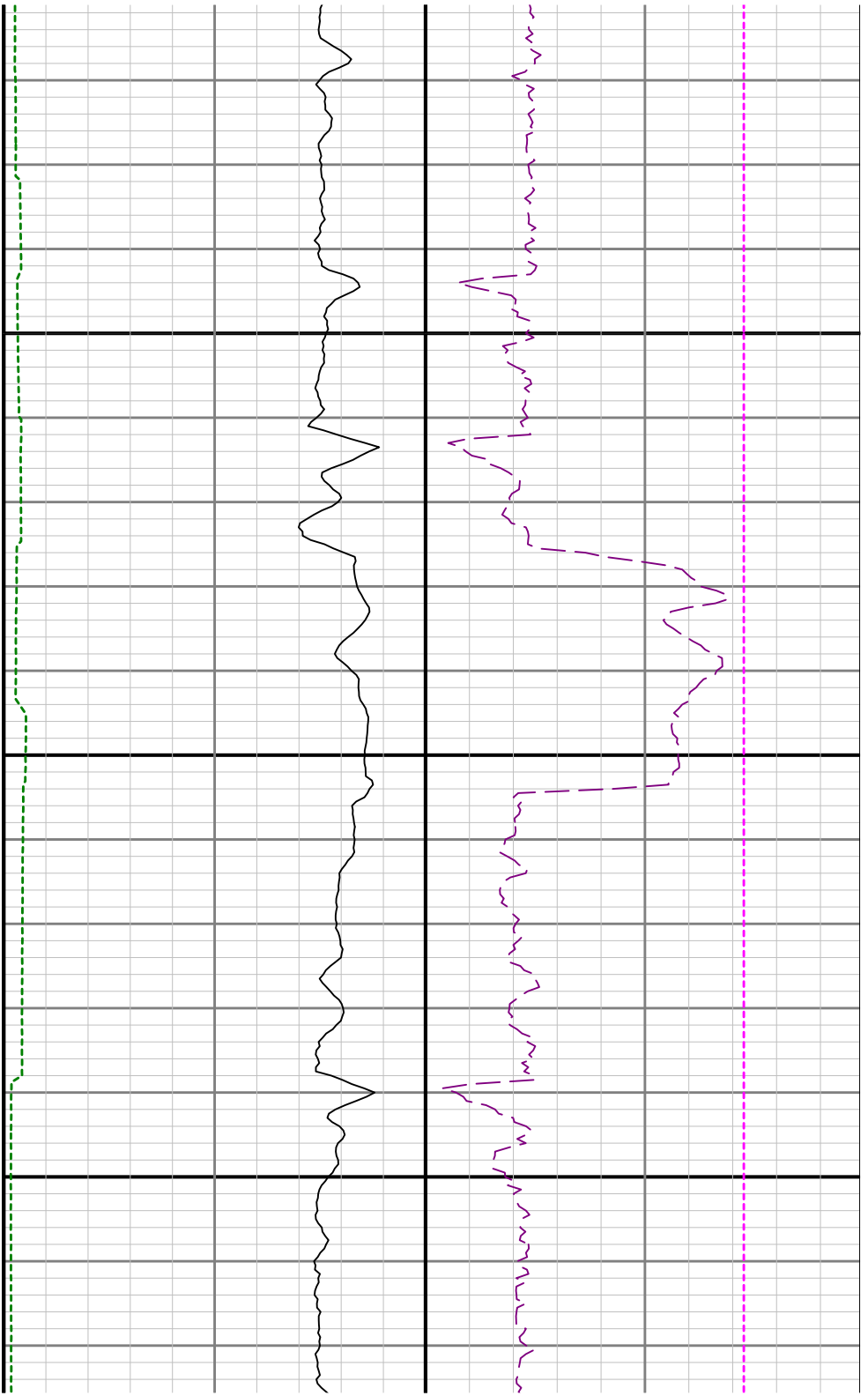
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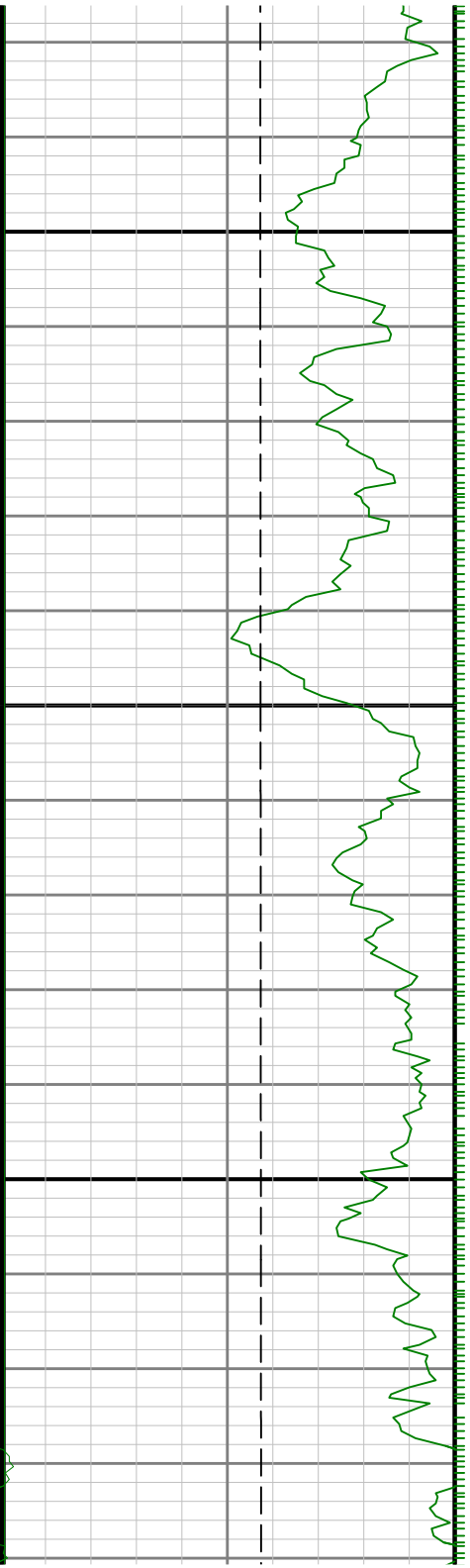




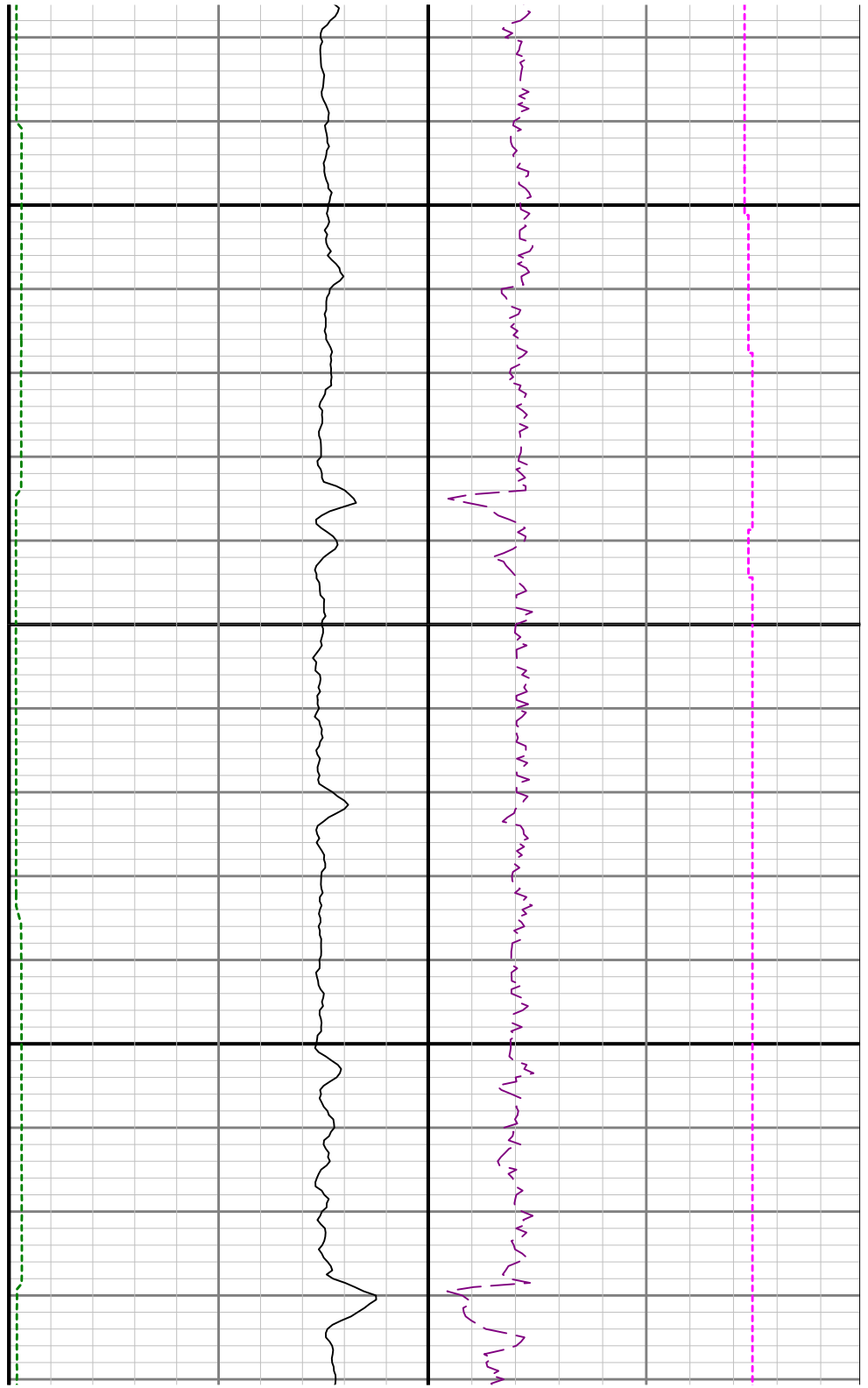


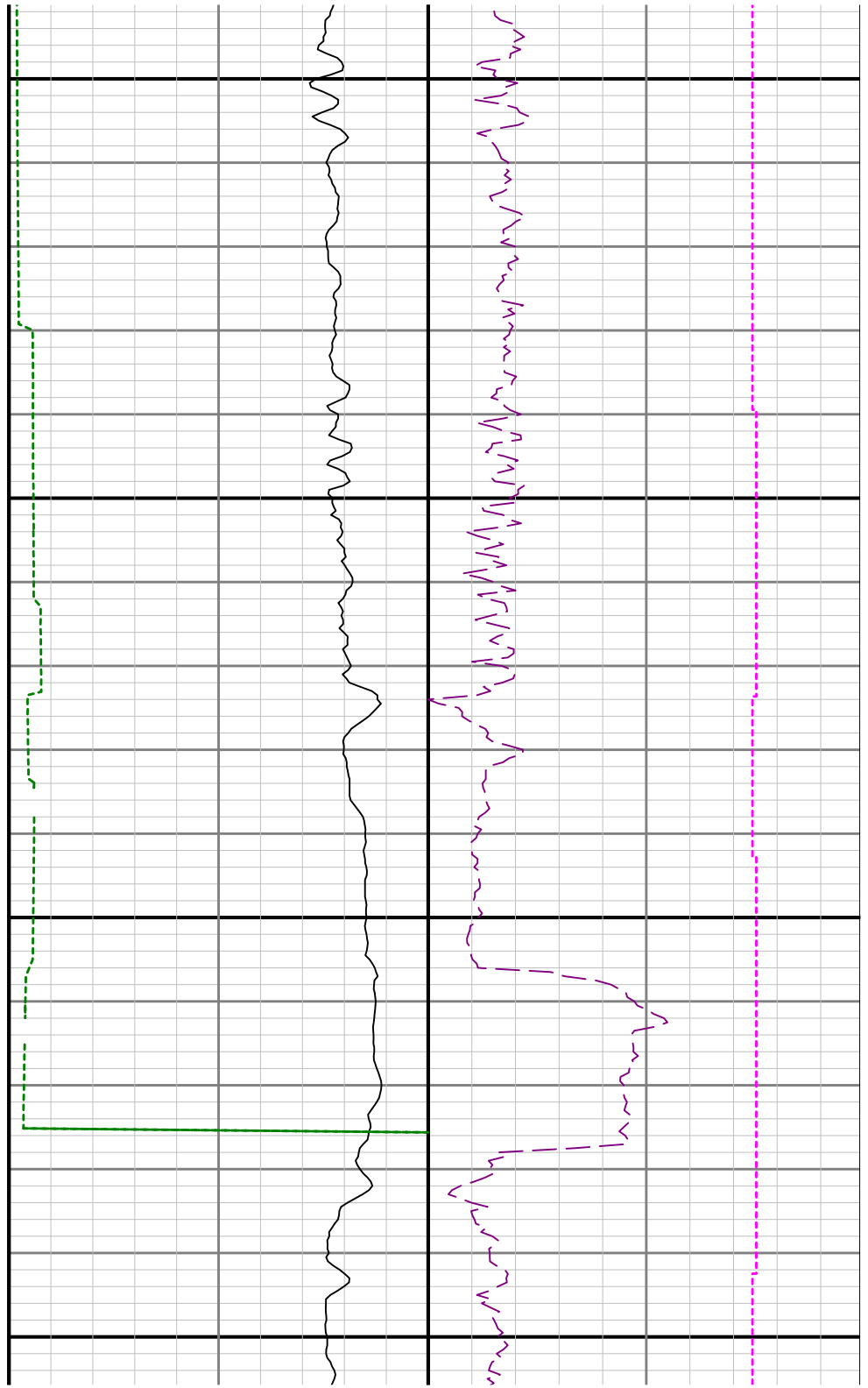
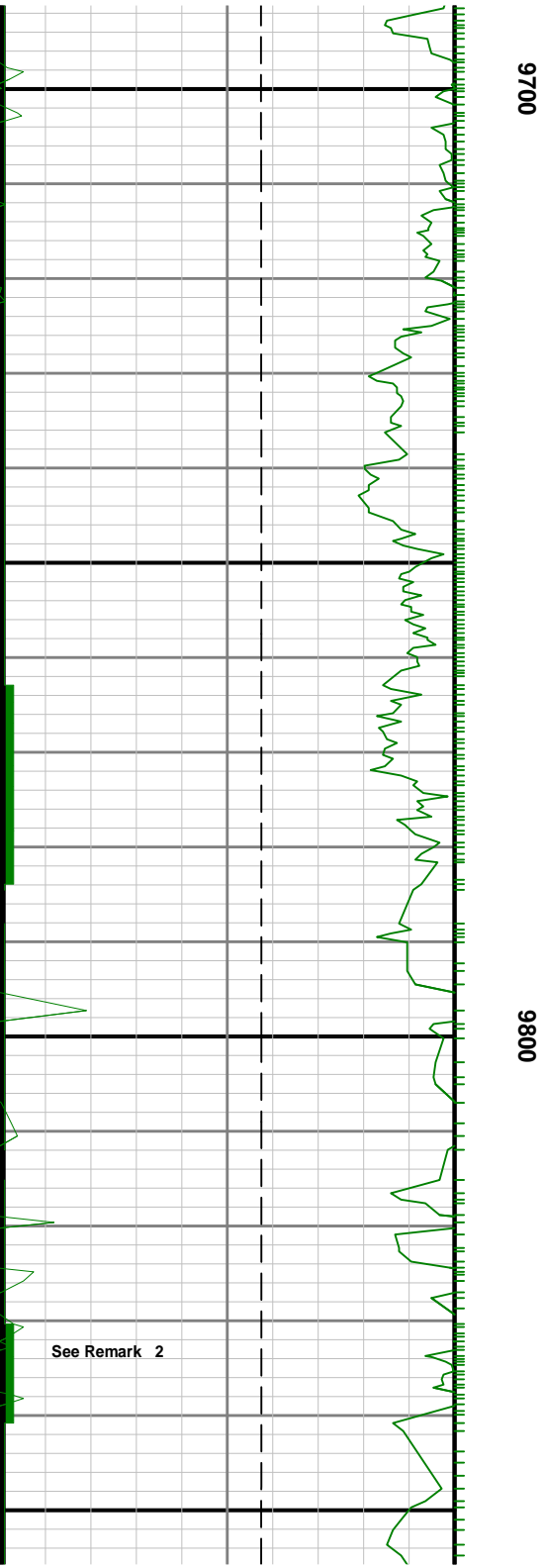


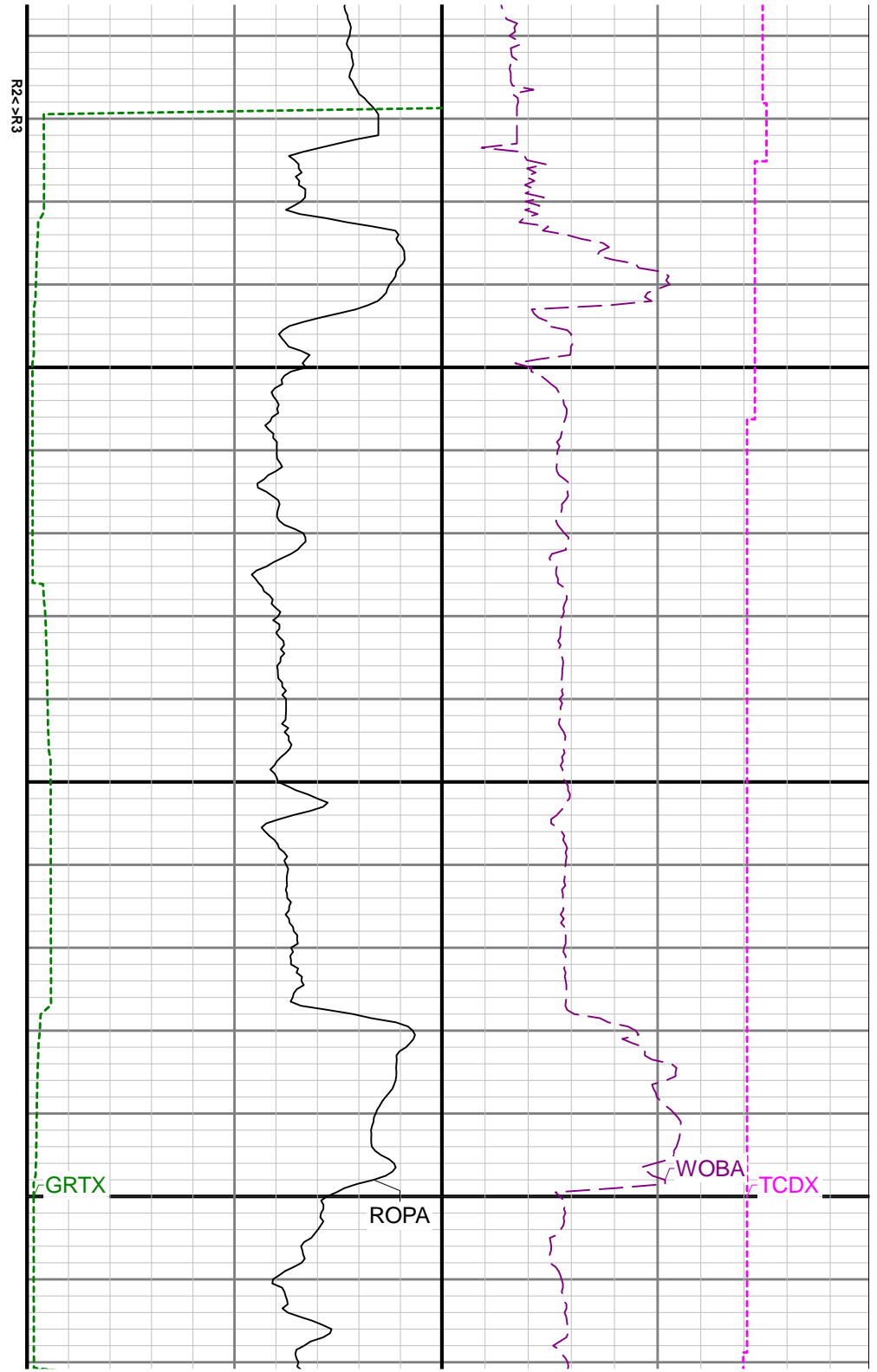
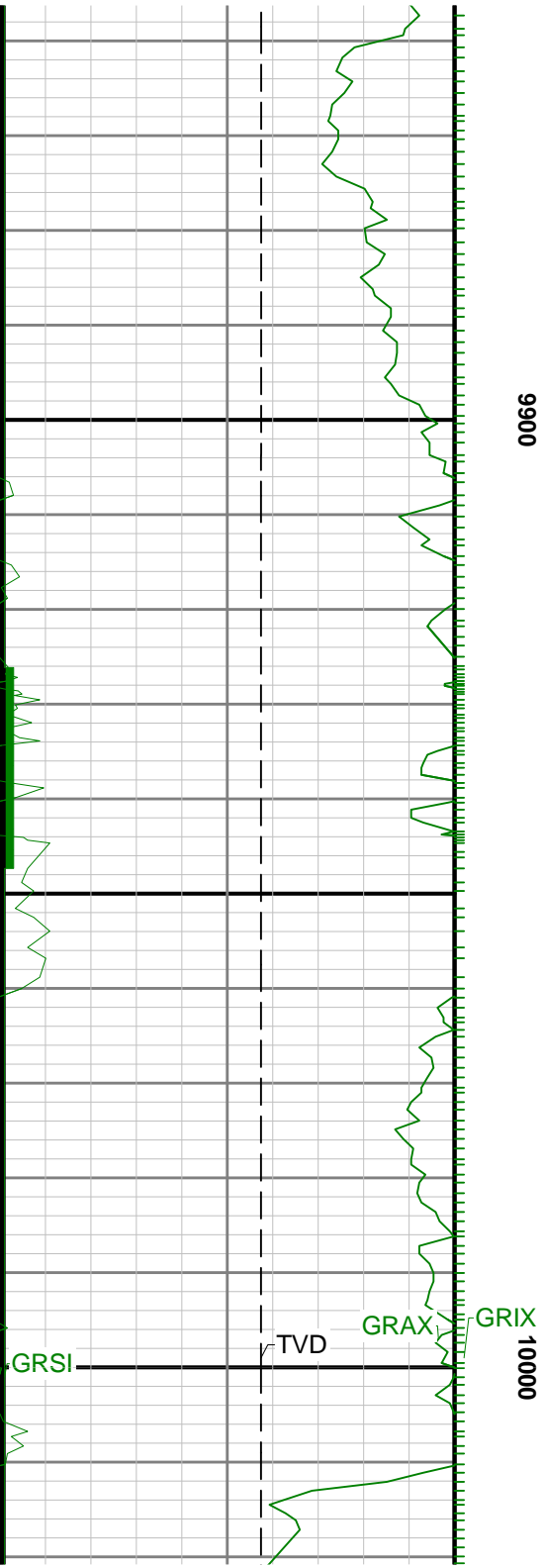


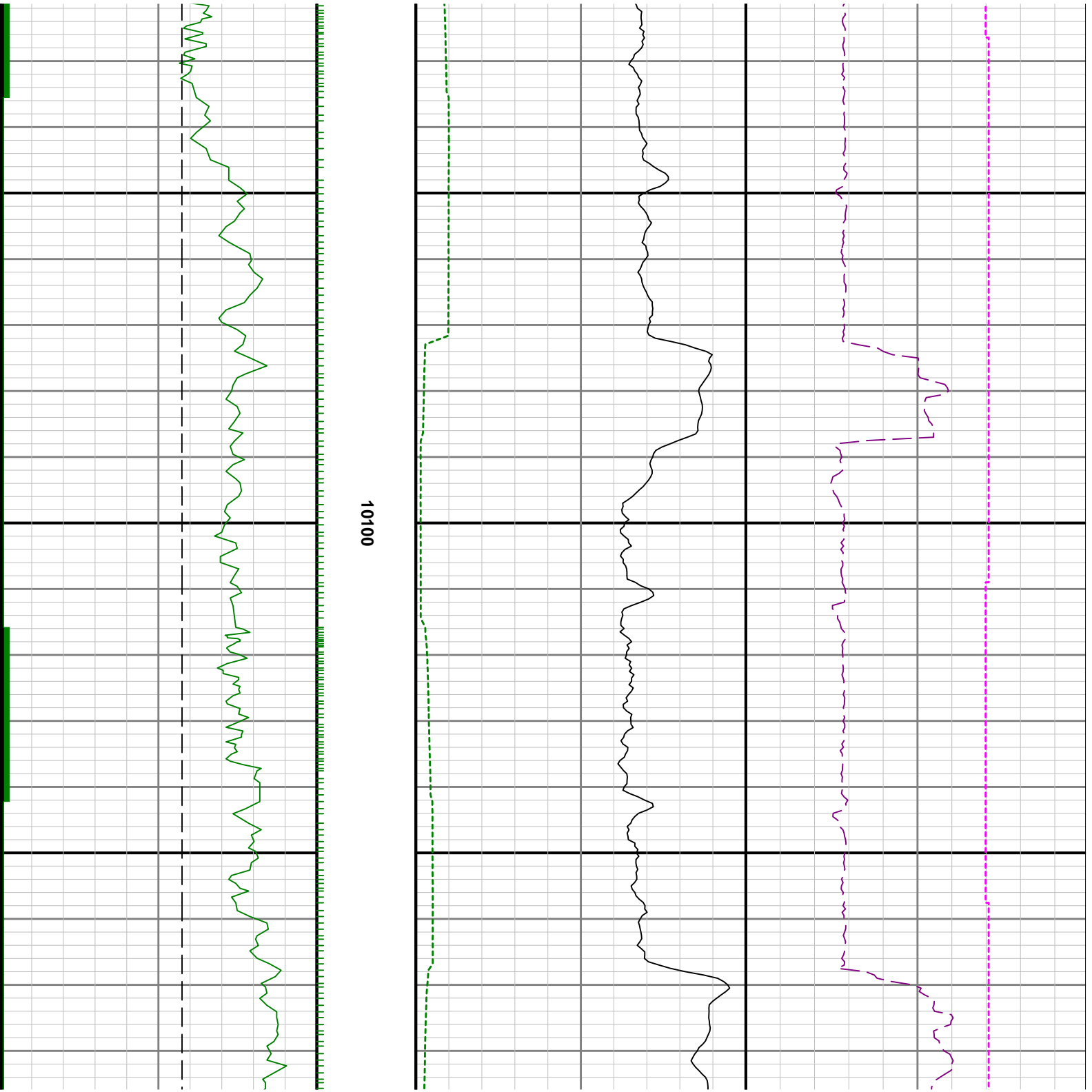


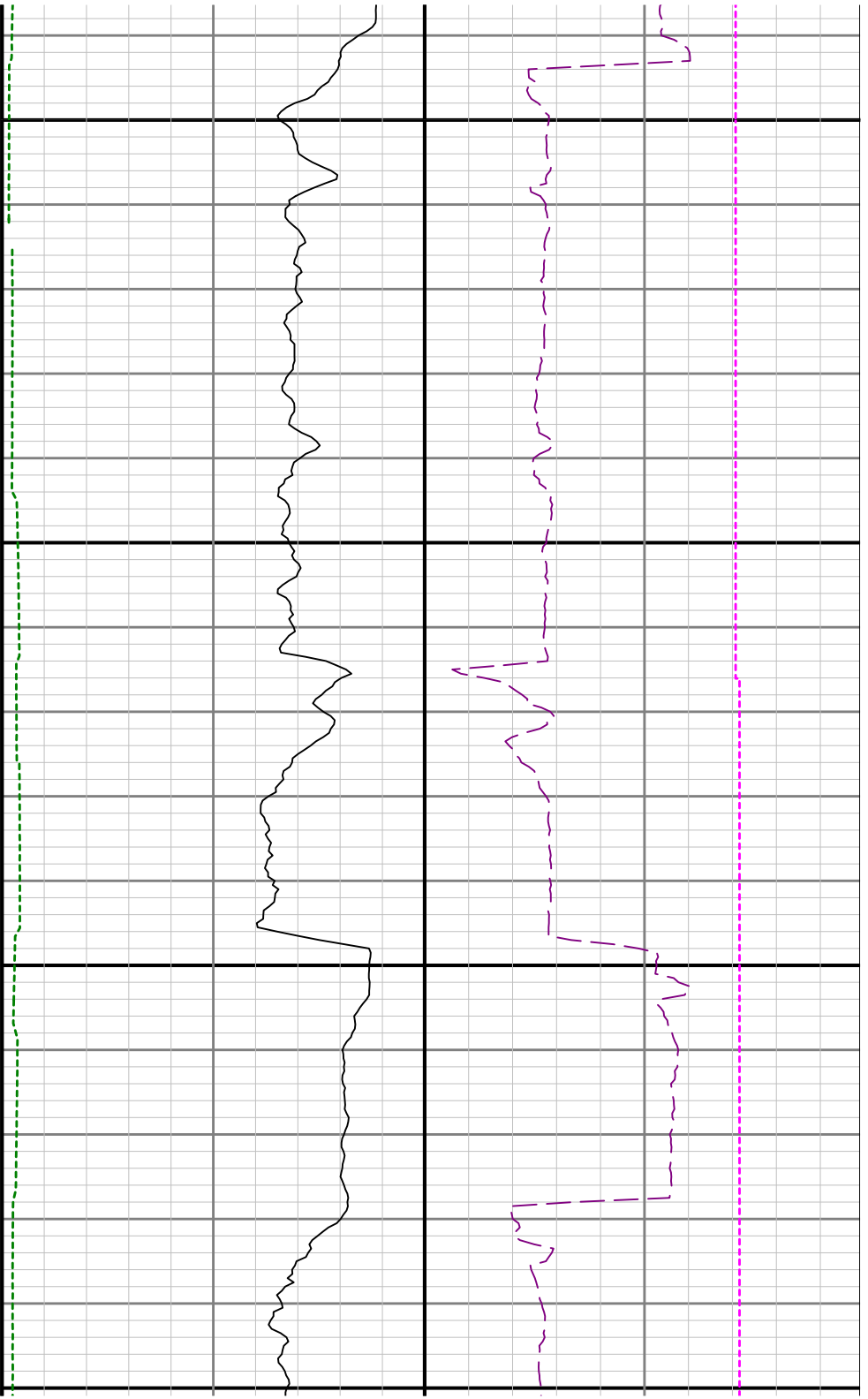
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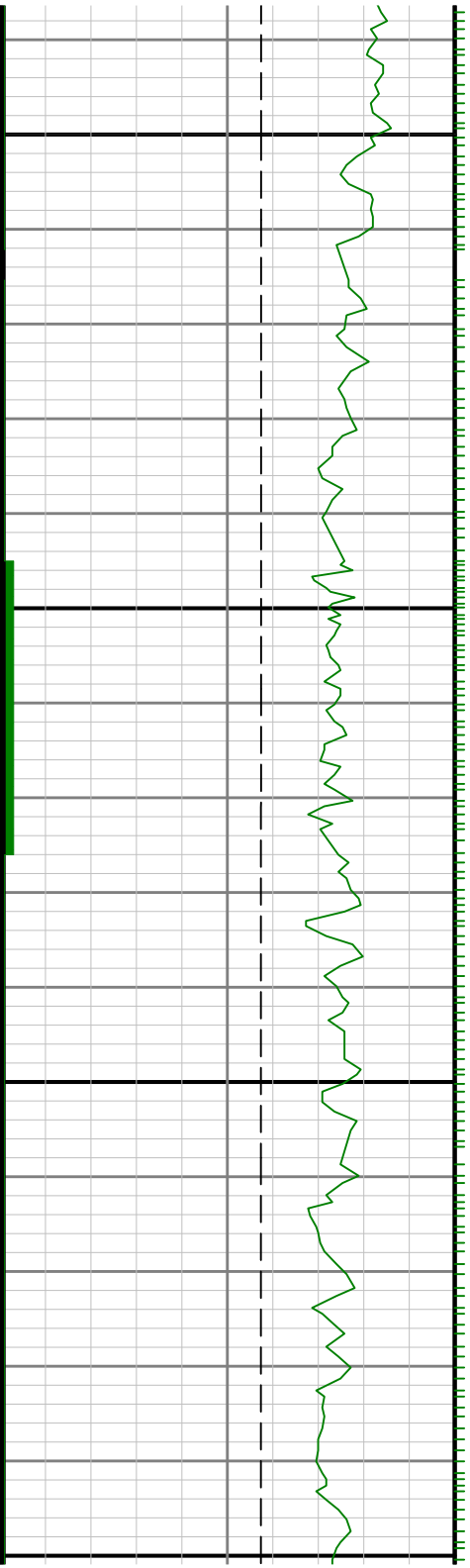


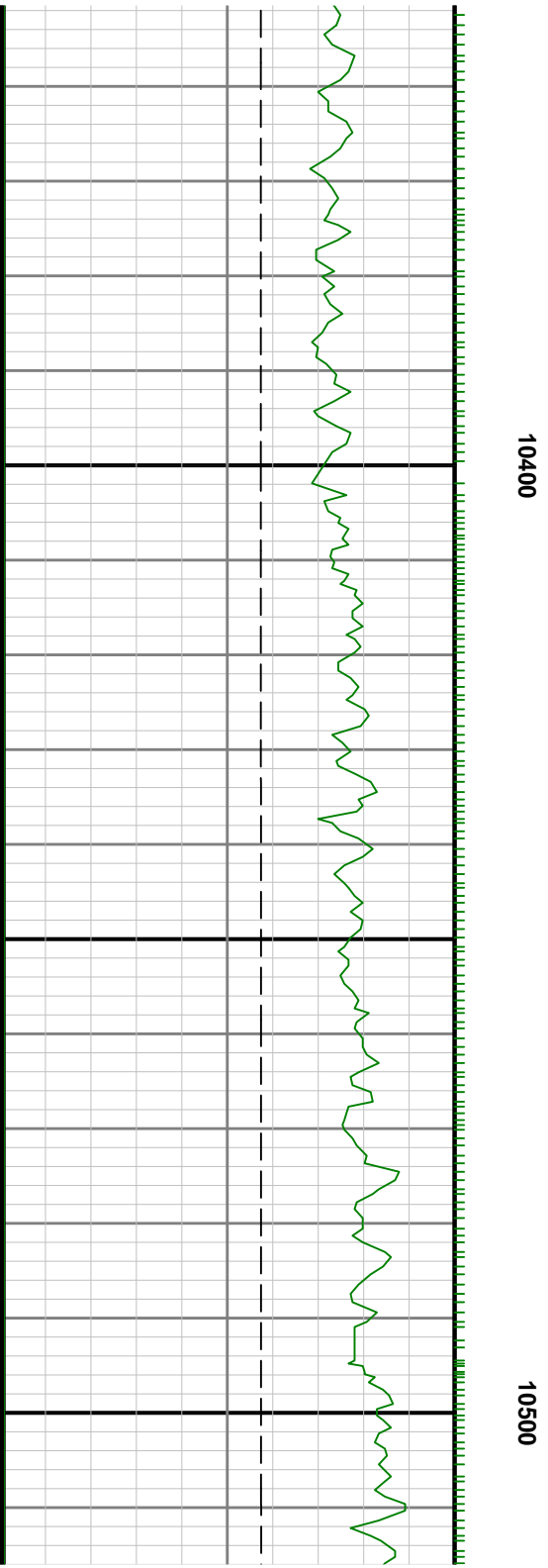
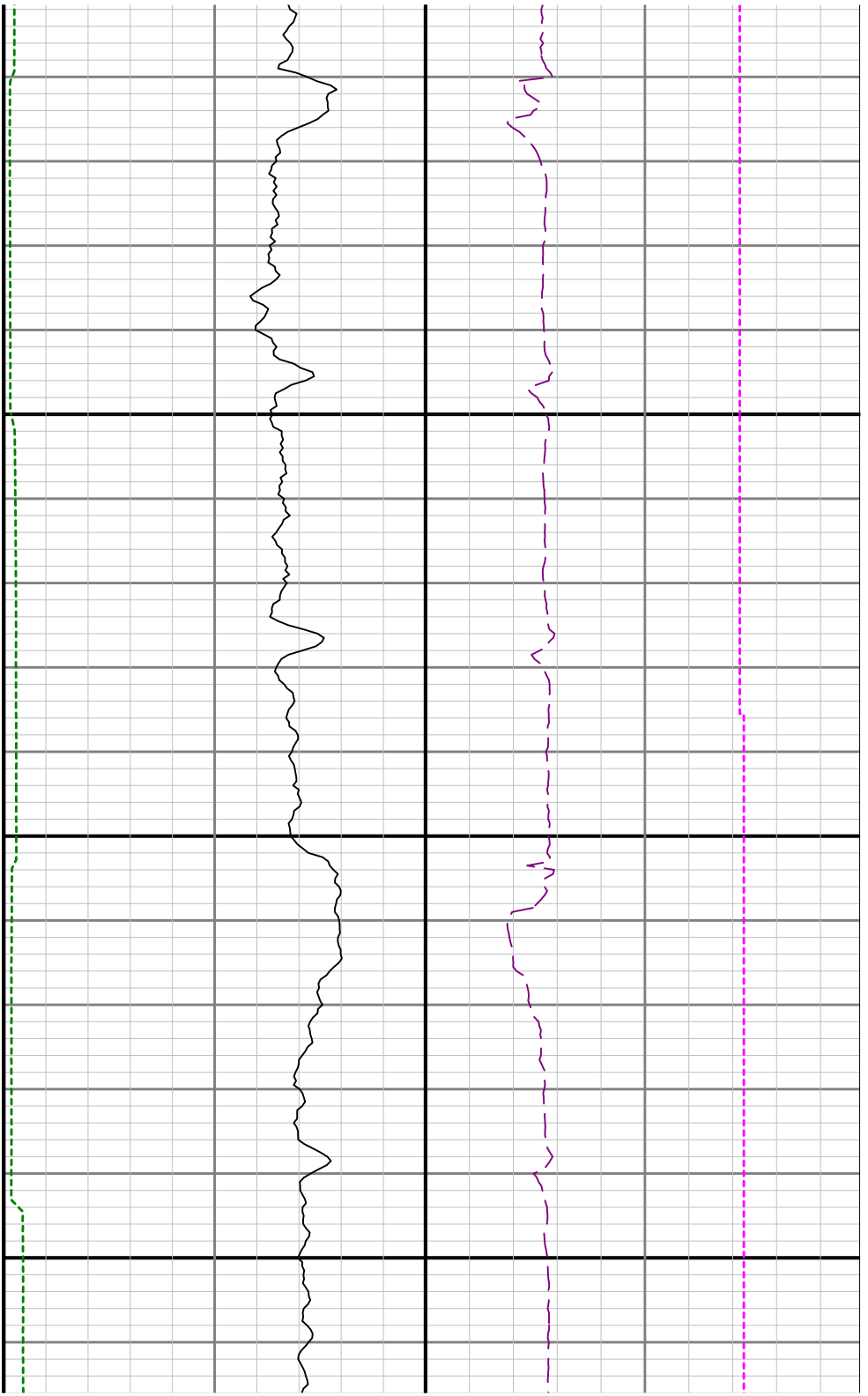


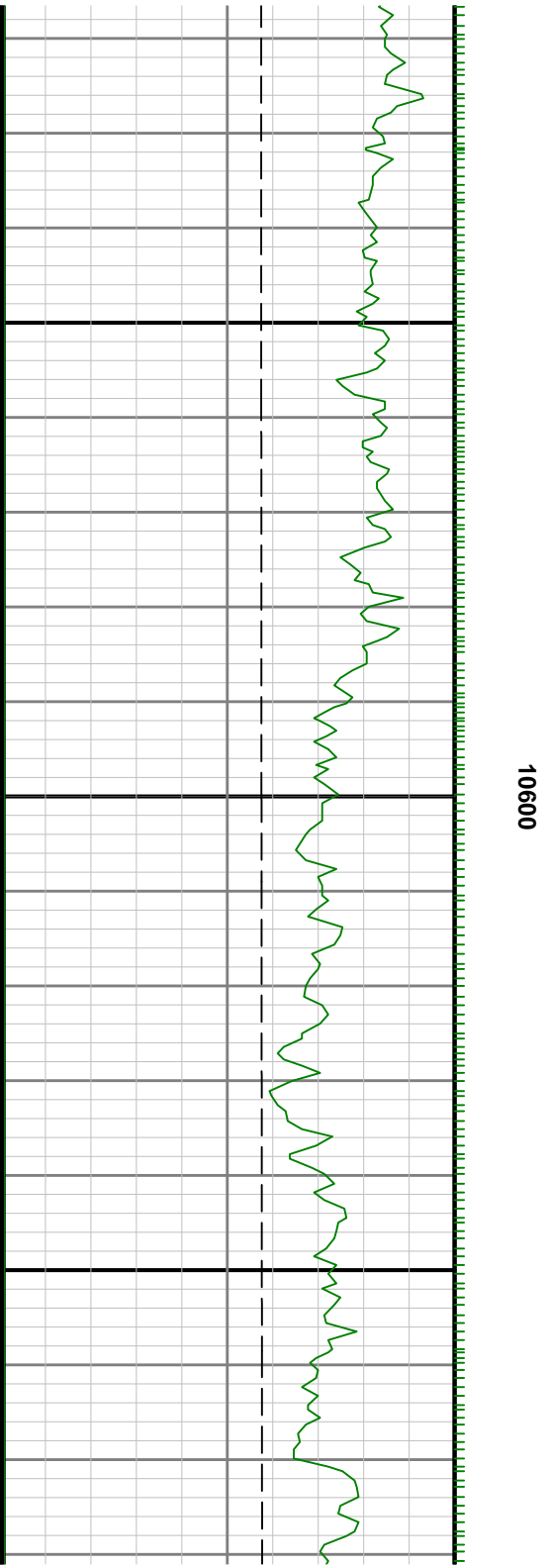
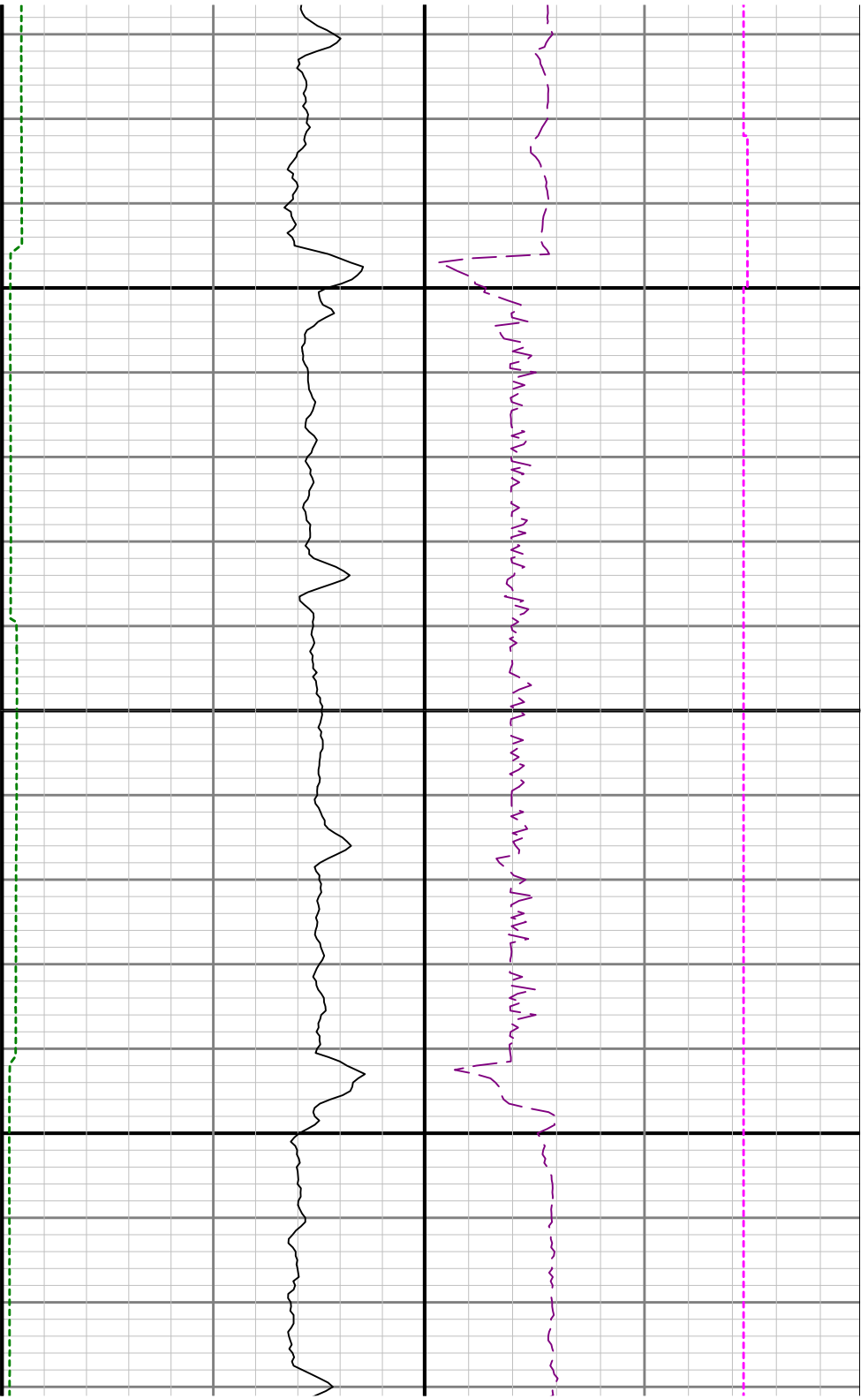


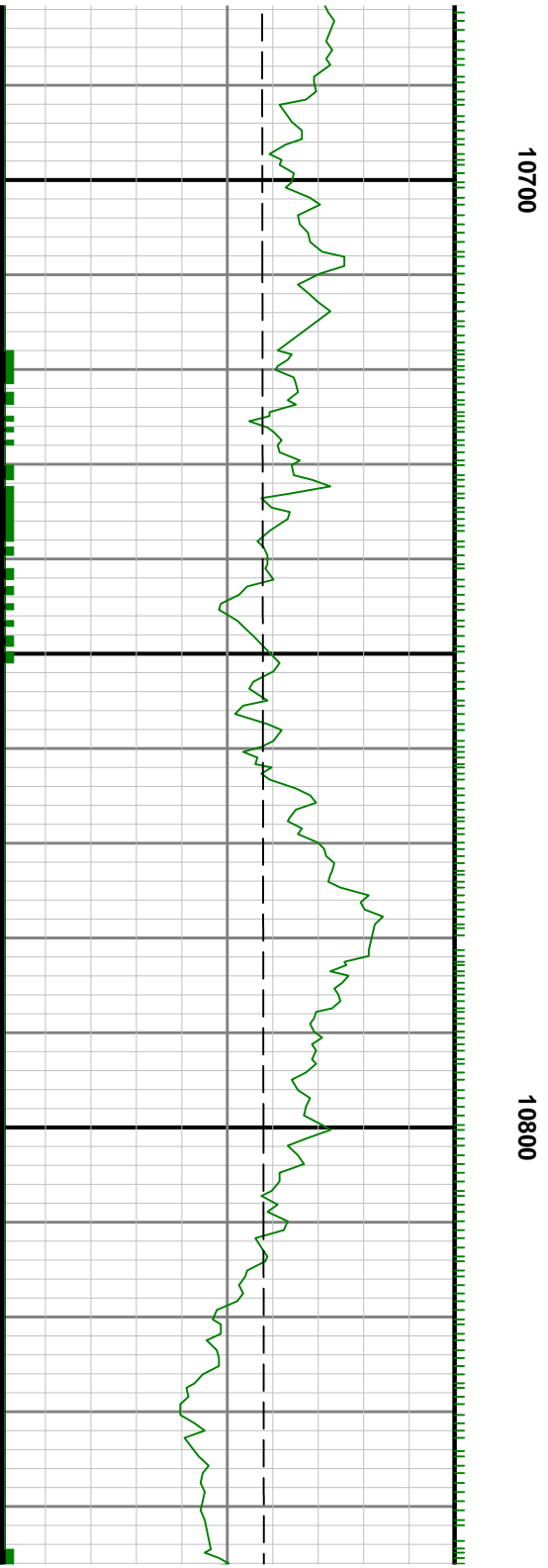
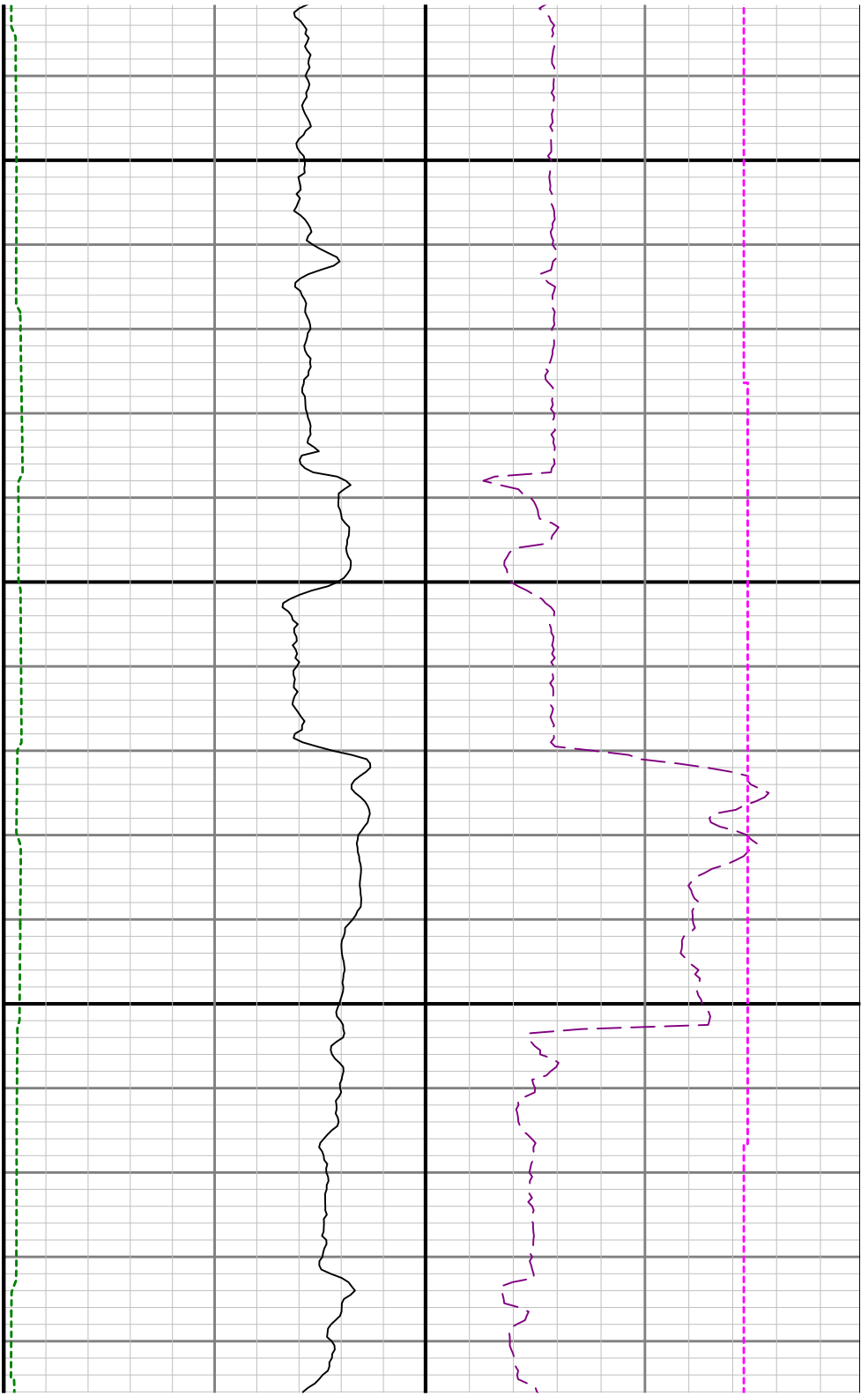
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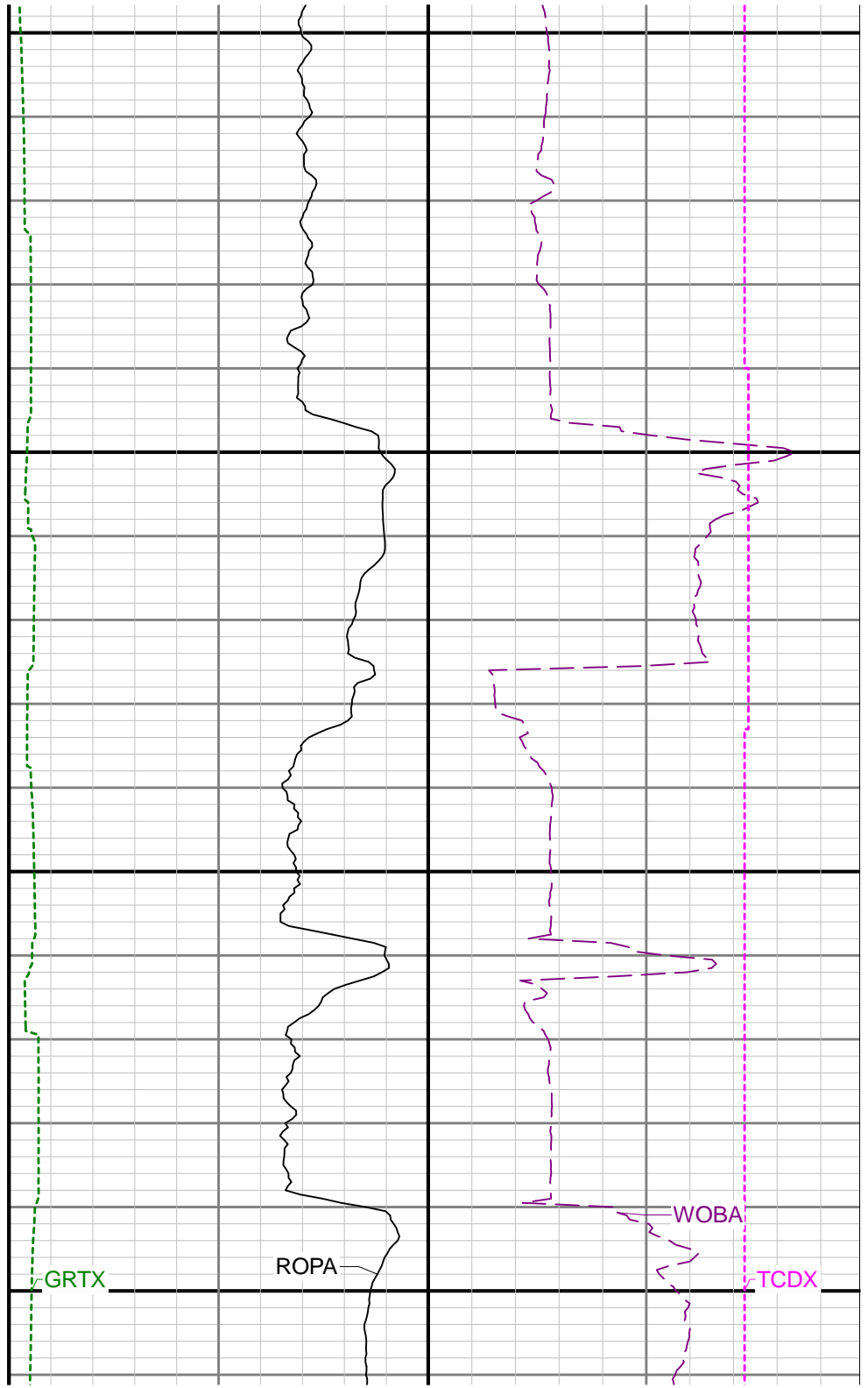
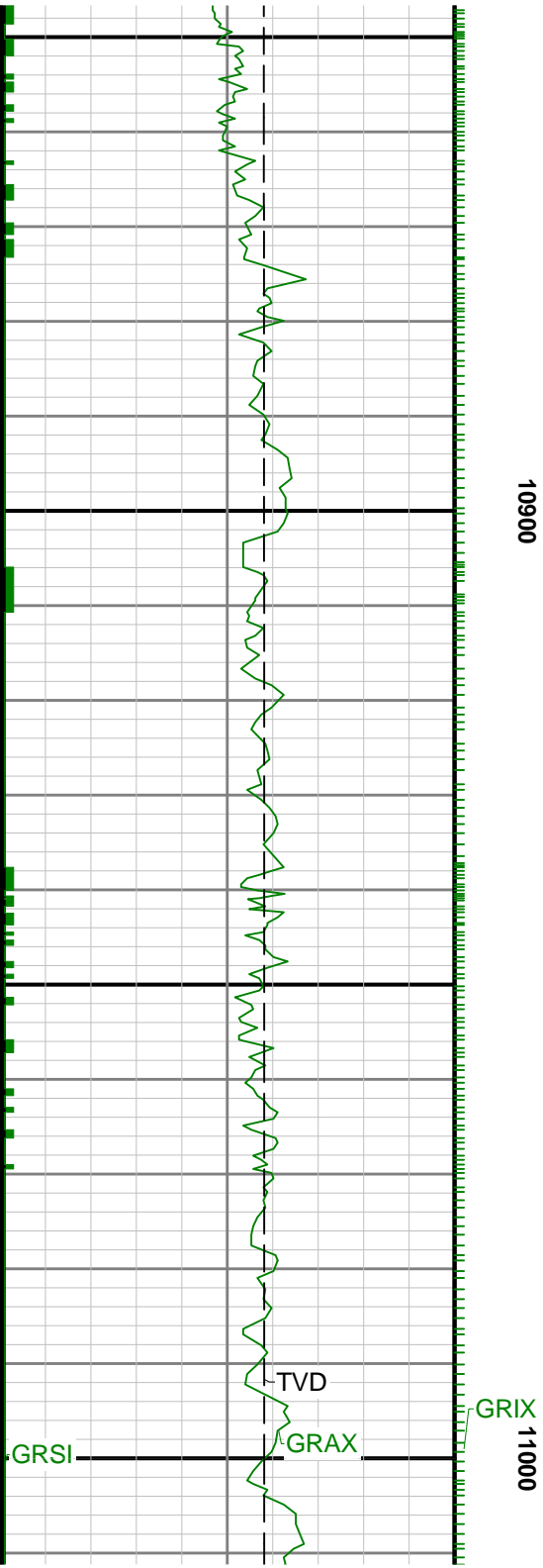
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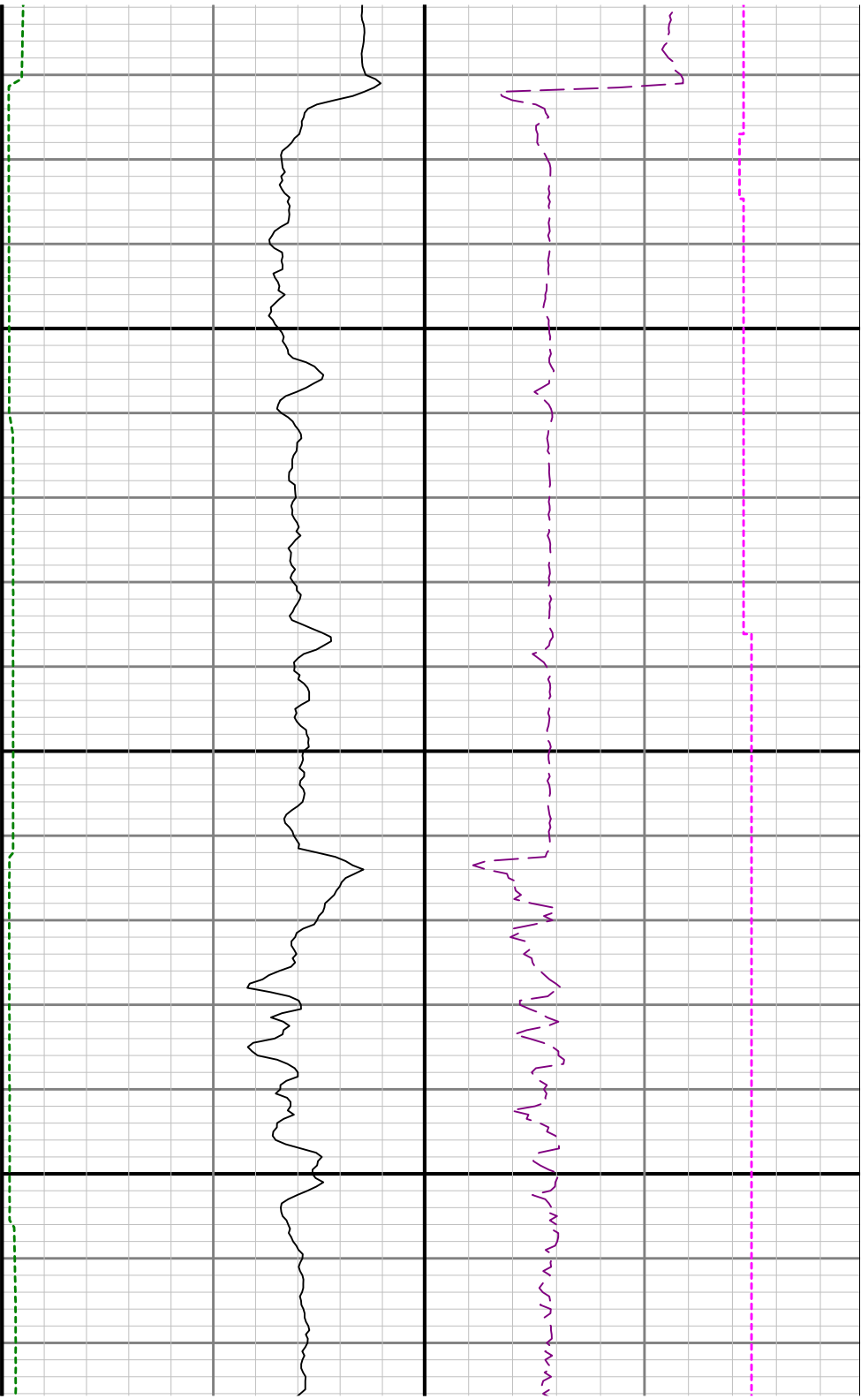




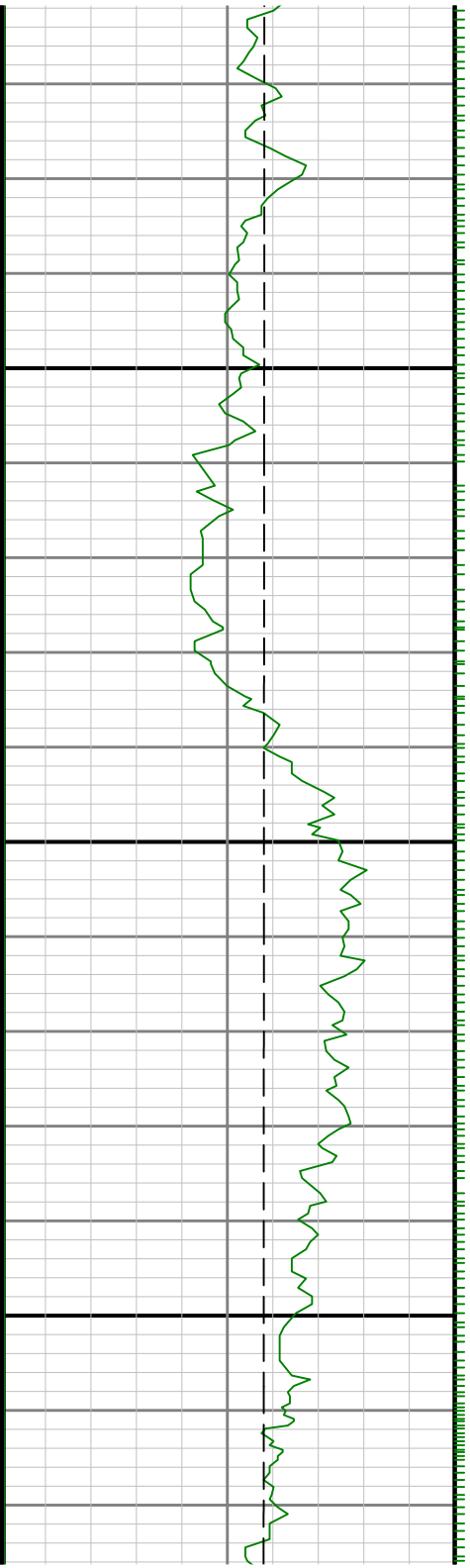


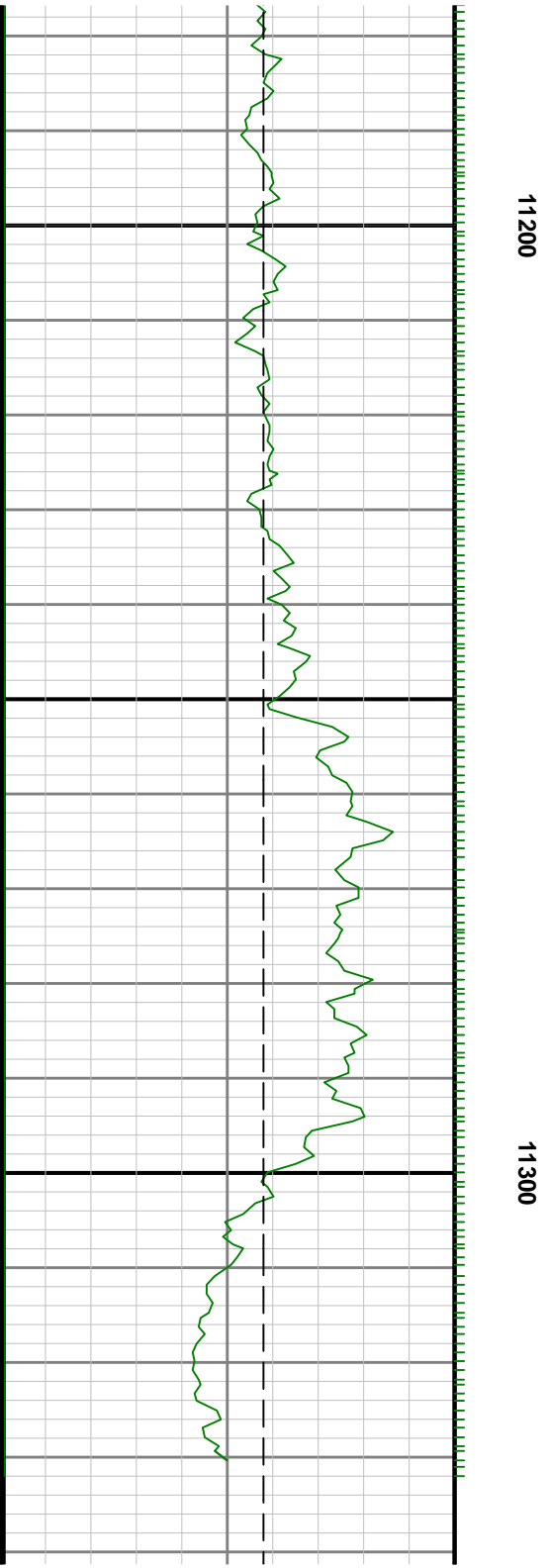
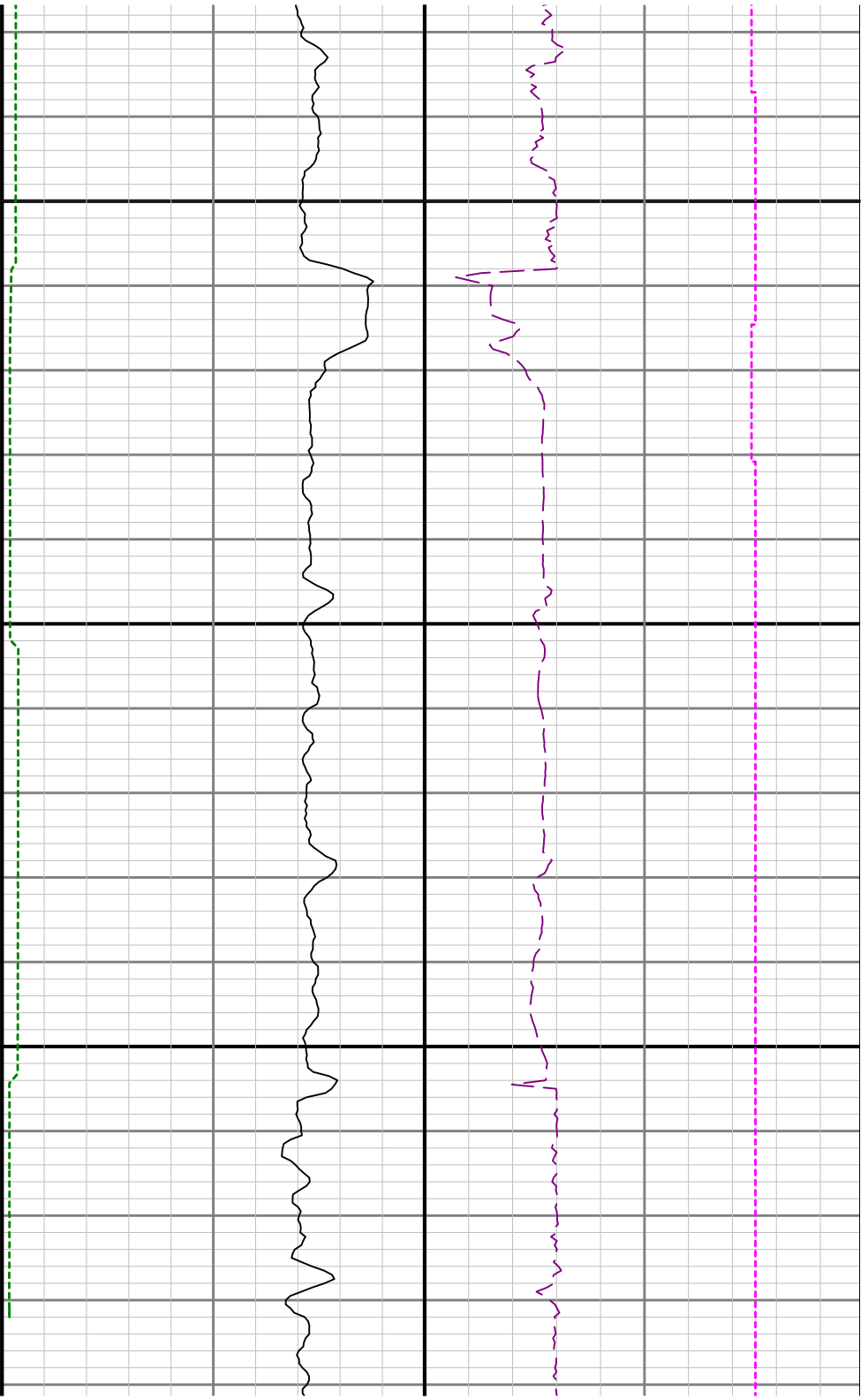


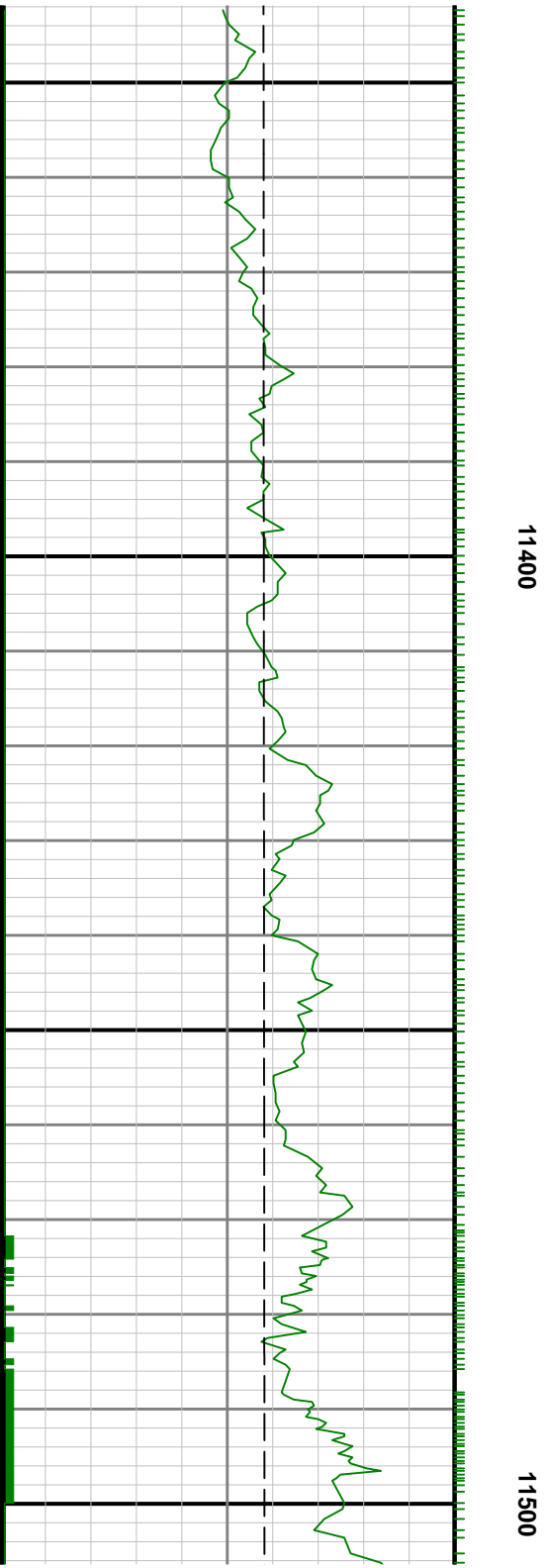
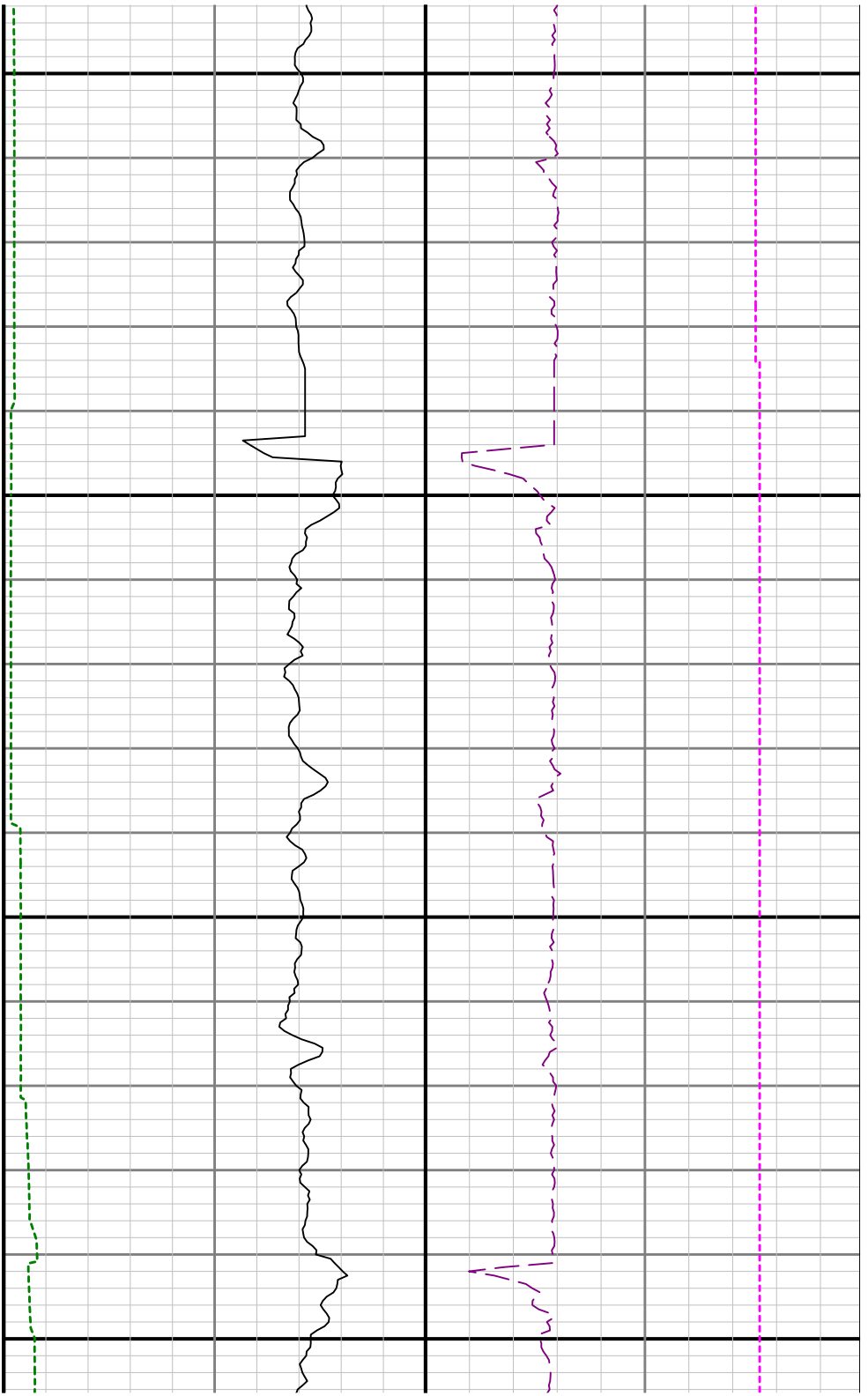


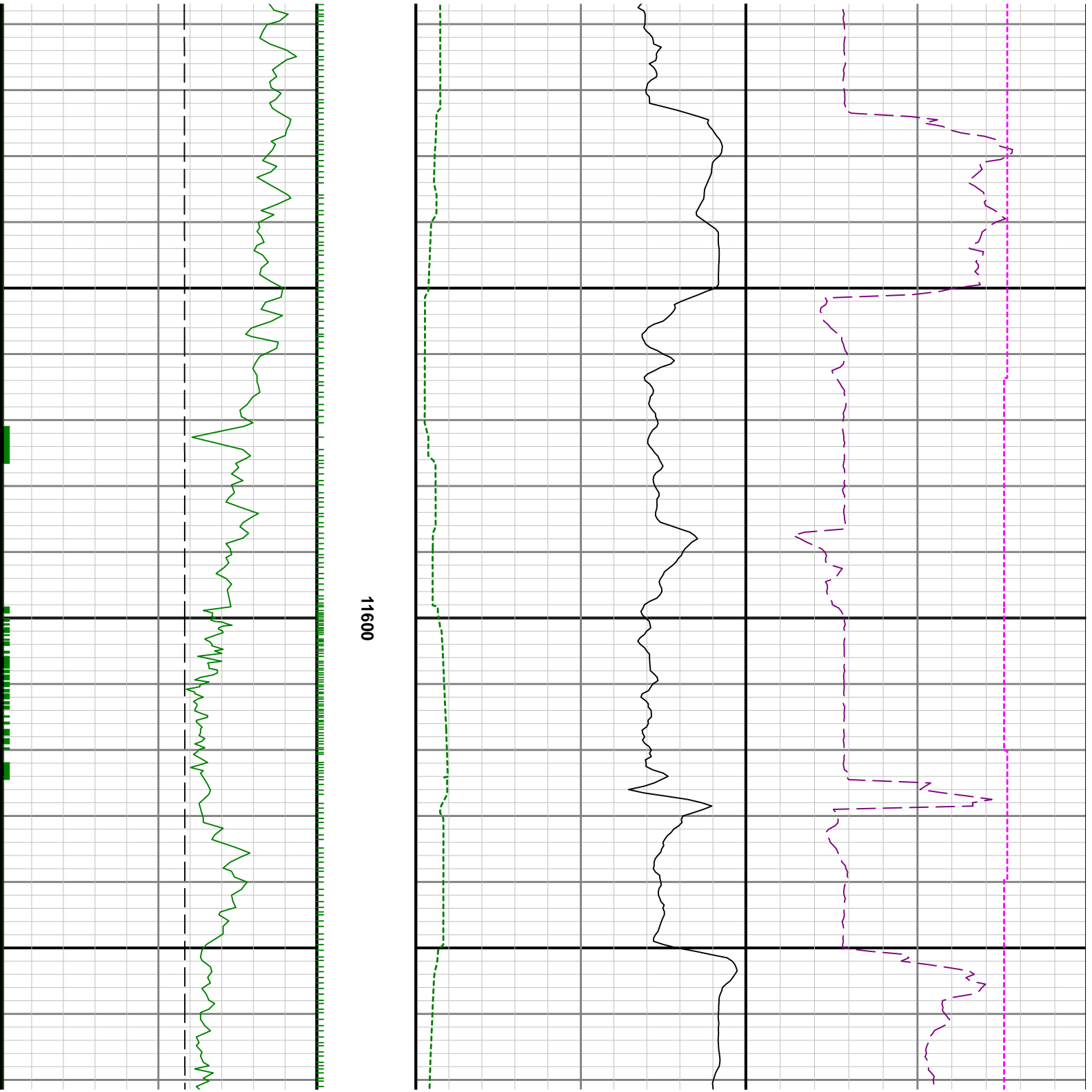


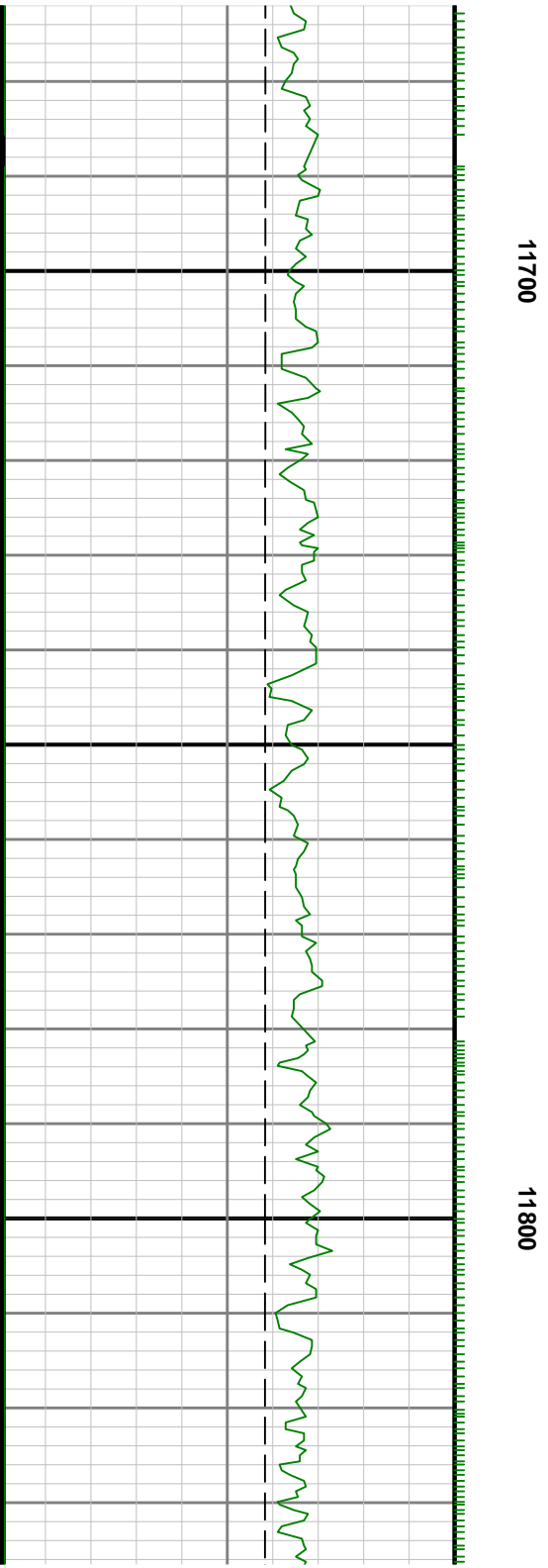
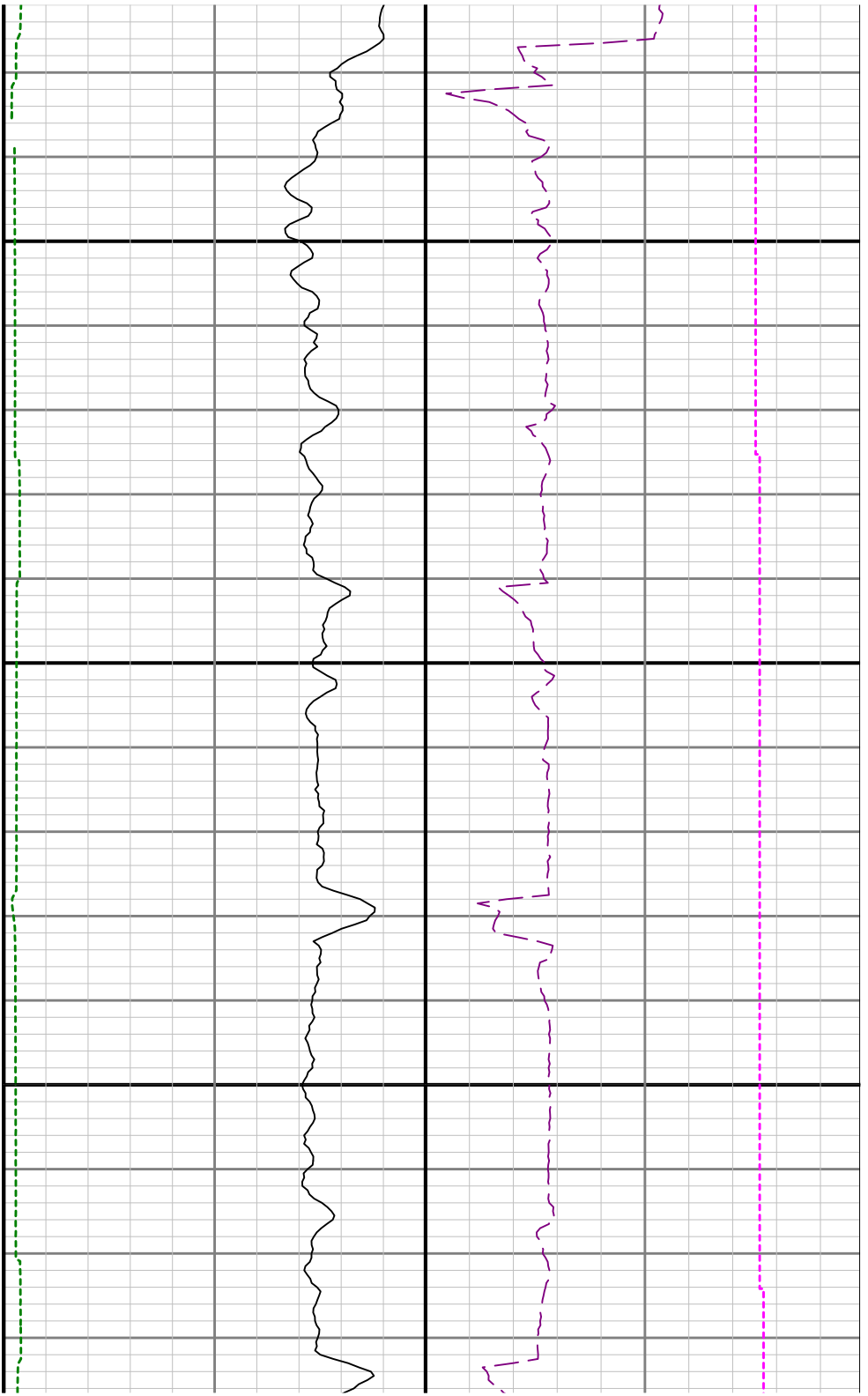
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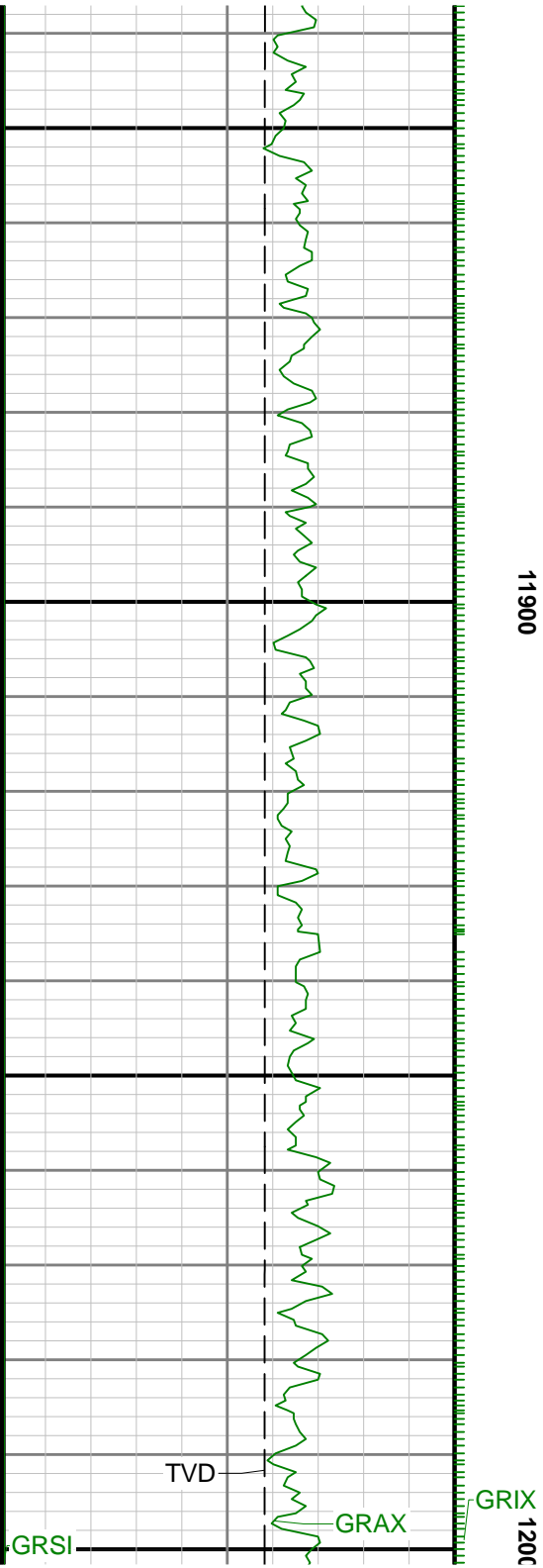


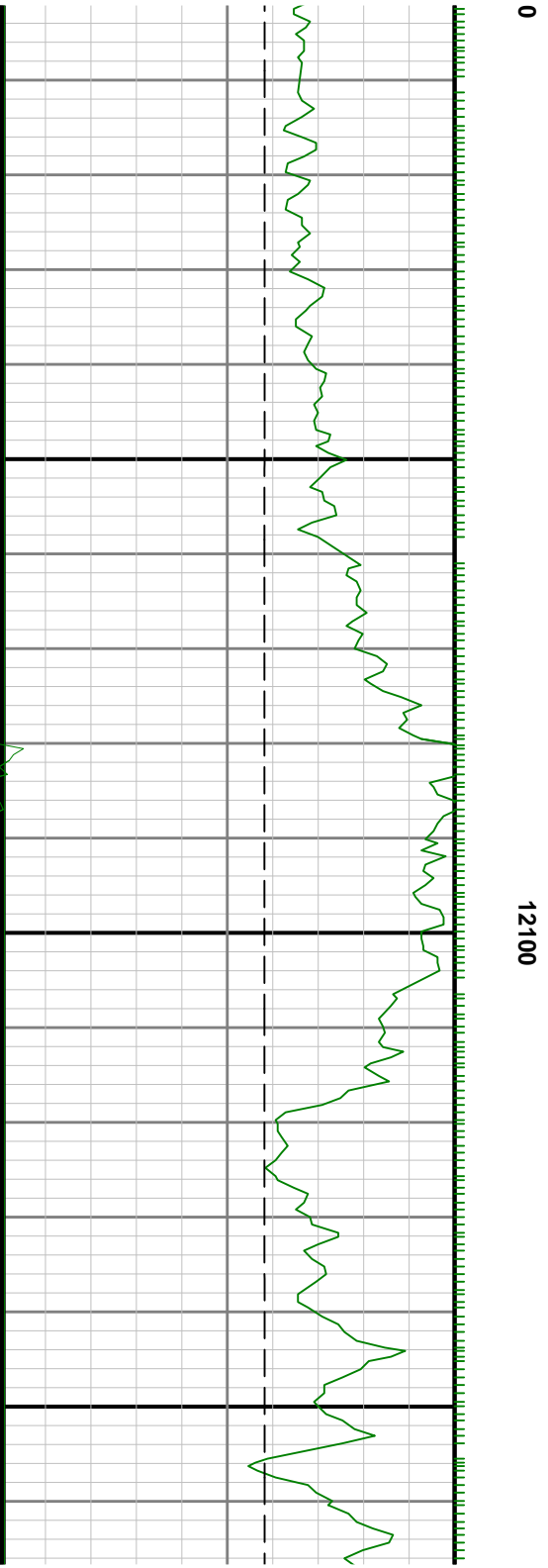
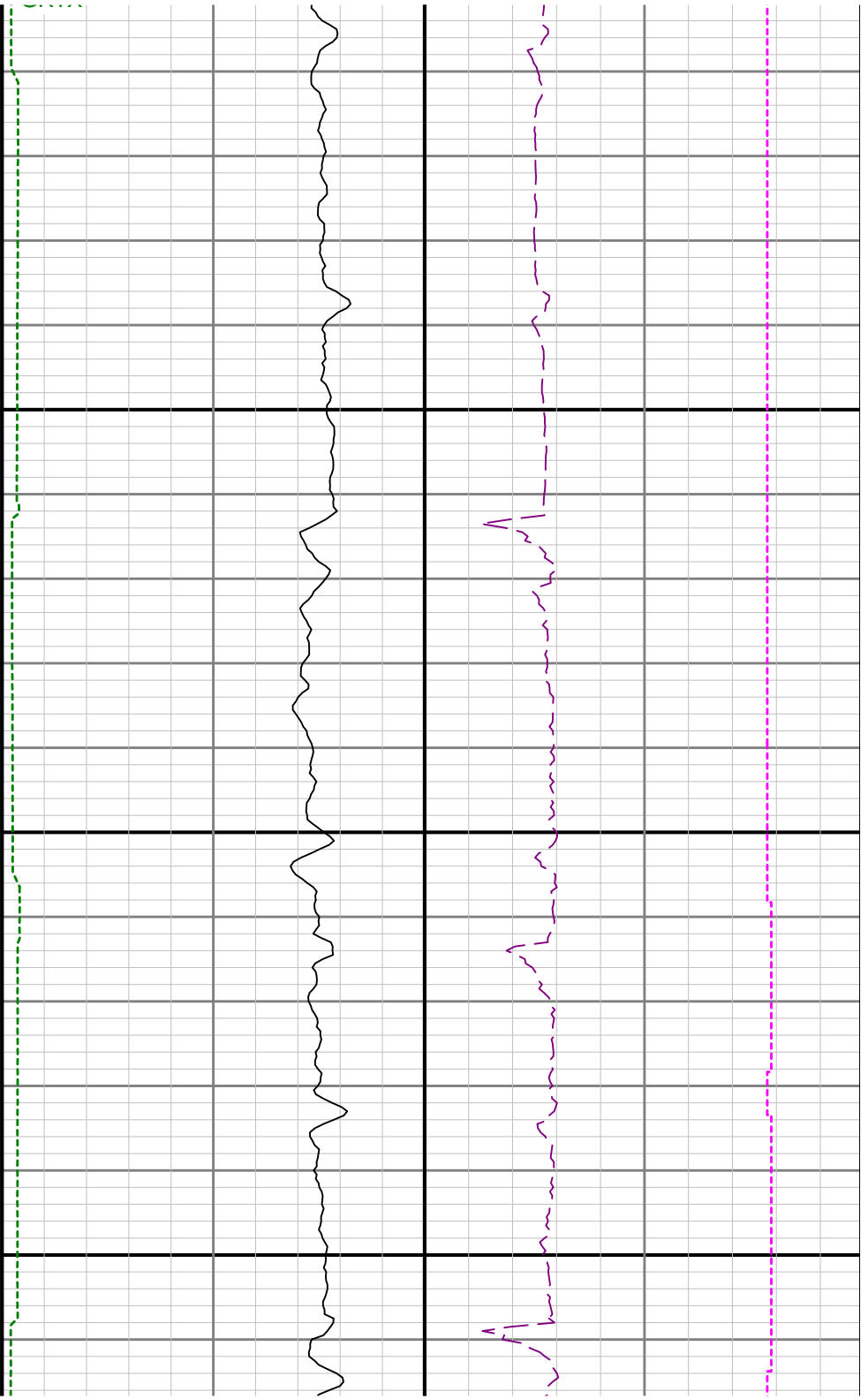


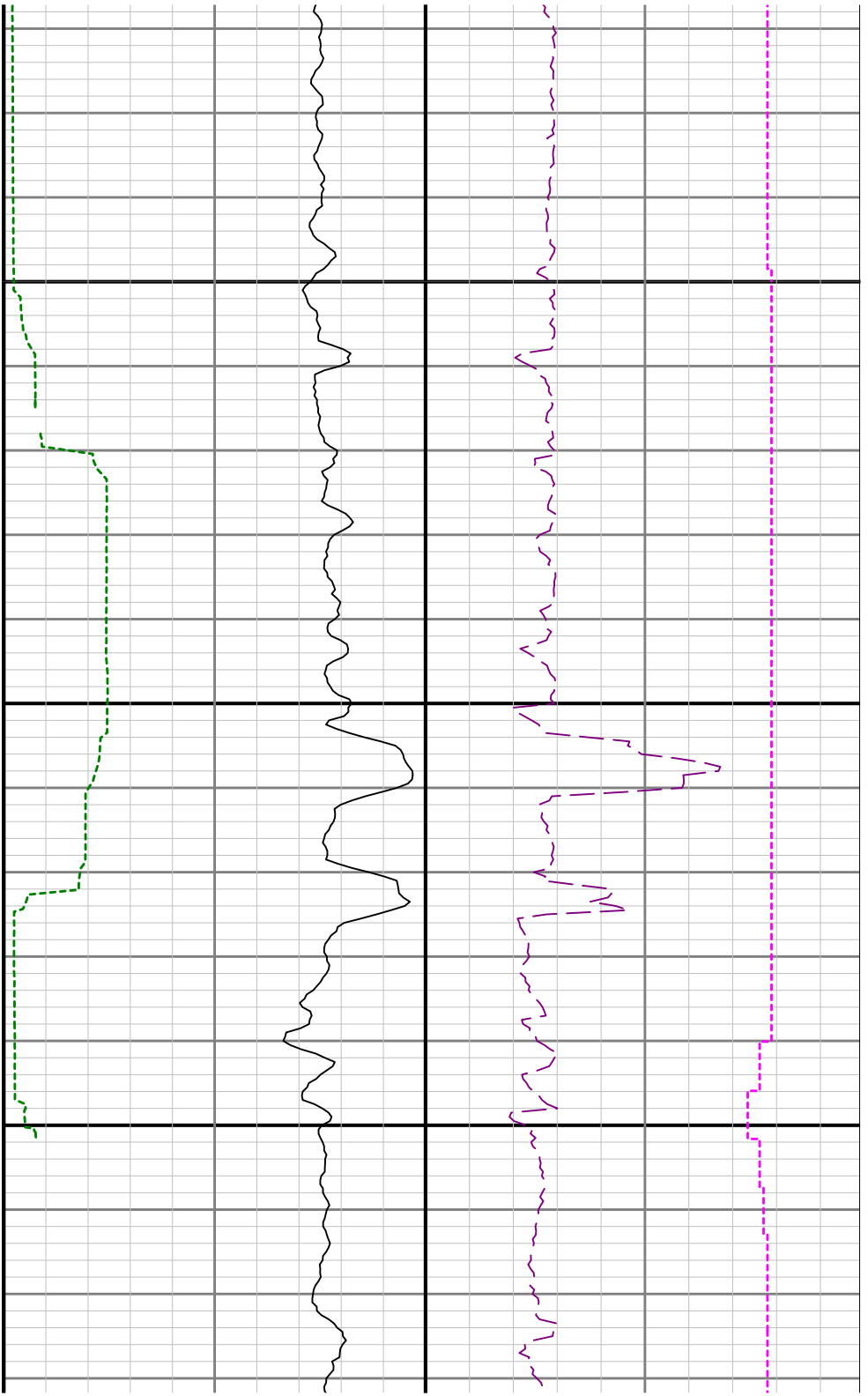








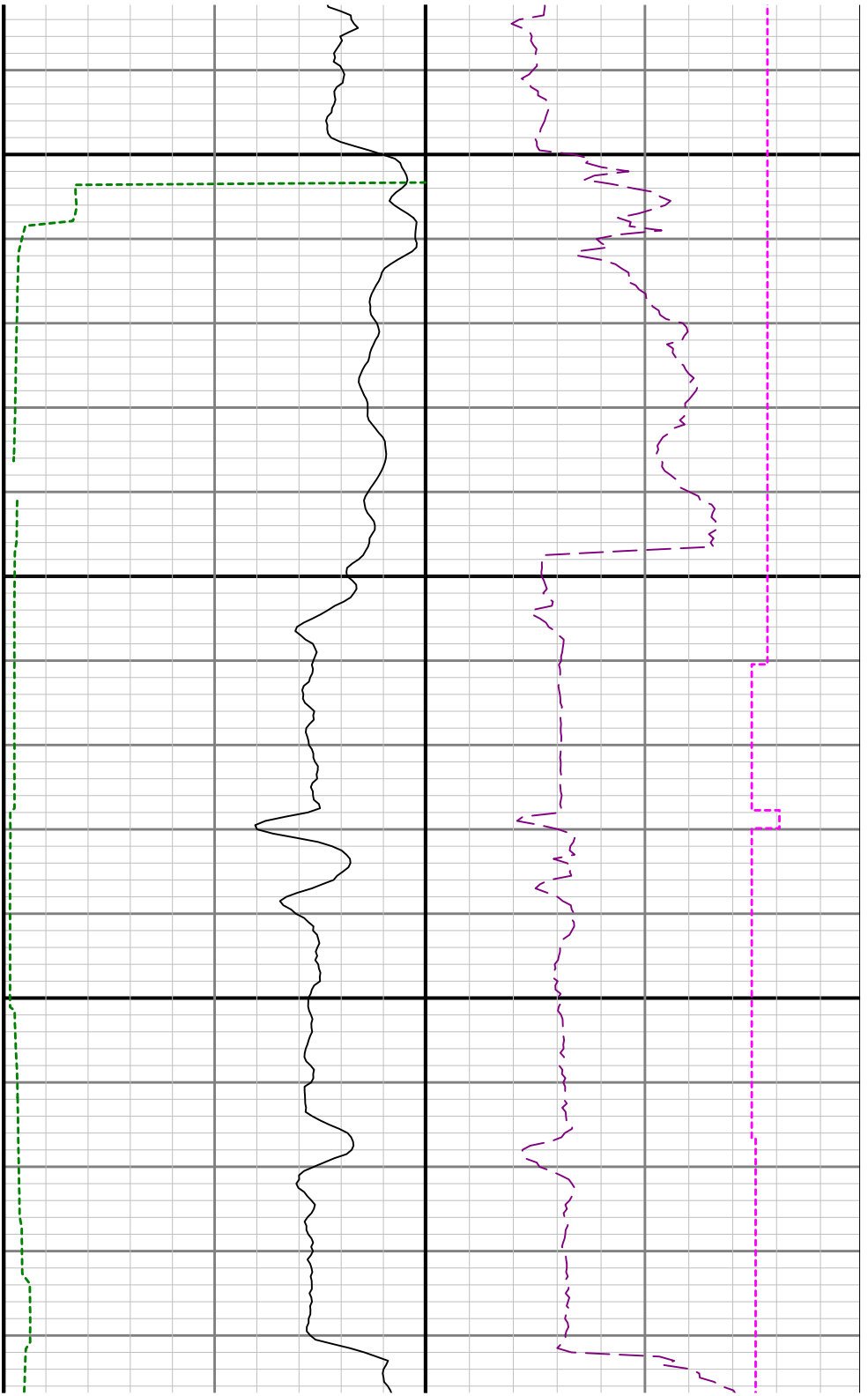




12200

12300

See Remark 3



12400

