



Gamma Ray

Scale:

1:240 MD

Depth Reference:

Driller's Depth

Company: SRC Energy
Well: Falken 30C-14-S
Field: Weld County
County: Weld County
State: Colorado
Country: United States

Status:

Final Print

Surface Location:
Latitude: 040° 30' 00.943" N
Longitude: 104° 44' 09.424" W
Other Services:

API No: 05-123-45119

Job ID: 8728749

SEC: 11 TWN: 6N RGE: 66W

Permanent Datum (P.D.): Ground Level
Log Measured From: Rig Floor
Elevation: 4810.00 ft
Above P.D. 25.00 ft

Elev. KB: 4835.00 ft
Elev. DF: 4810.00 ft
Elev. GL:

Dates

Interval Logged

Magnetic Field Reference

Date From: 2017-12-22 Top: (ft) 1730.00
Date To: 2017-12-26 Bottom: (ft) 13660.00
Spud Date: 2017-09-07
Azi Reference North: True
Total Magnetic Field Strength: (nT) 52600
Mag to Reference North Correction: (deg) 7.36 E

Borehole Record

Casing Record

Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)
13.500	25.00	1787.00	9.625	36.00	25.00	1747.00
8.500	1787.00	13673.00				

Mud Record

Deviation Record

Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Az (Start)	Inc Az (End)
Diesel-Oil Based Mud	1730.00	13674.07	13.500	1787.28	0.33 218.50	20.46 147.53
			8.500	11944.07	20.59 148.37	89.69 274.04

Acquisition System

Software Version

Other

Baker Hughes Cadence
PlotStudio

RT4.1
4.1.7763.3

Rig: PD 562
Contractor: Precision Drilling
District: RMA

Unit: D&E

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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
						Top (ft)	Bottom (ft)	From (ft)	To (ft)	Start Logging	End Logging	

		(in)		(in)		(ft)	(ft)	(ft)	(ft)			(h)
2	2	8.500	PDC	3.00	AutoTrak Curve	1775.00	13083.00	1775.00	13095.00	2017-12-22 19:53	2017-12-25 09:10	53.44
3	3	8.500	PDC	3.00	AutoTrak Curve	13083.00	13660.00	13095.00	13673.00	2017-12-26 05:14	2017-12-26 08:36	4.21

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Garrett Gerdson	2017-12-22	2017-12-27						

Mud Properties Record

Date / Time	Run No.	Measured Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2017-12-22 15:00	2	1691.00	Diesel-Oil Based Mud	9.8	78	N/A	12.0	74/26	Active Pit	37000	0.00
2017-12-23 03:00	2	4072.00	Diesel-Oil Based Mud	9.7	63	N/A	14.0	78/22	Active Pit	35000	0.00
2017-12-23 14:00	2	6644.00	Diesel-Oil Based Mud	10.2	57	N/A	10.0	77/23	Active Pit	36000	0.00
2017-12-24 03:00	2	8750.00	Diesel-Oil Based Mud	10.2	55	N/A	11.0	76/24	Active Pit	35000	0.00
2017-12-24 14:00	2	11042.00	Diesel-Oil Based Mud	10.3	57	N/A	12.0	75/25	Active Pit	36000	0.00
2017-12-25 03:00	2	12466.00	Diesel-Oil Based Mud	10.2	56	N/A	12.0	74/26	Active Pit	36000	0.00
2017-12-26 03:00	2	13096.00	Diesel-Oil Based Mud	10.3	82	N/A	14.0	74/26	Active Pit	34000	0.00

Equipment and Service Data

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
2	ATC_SU	14316019	Near Bit Inclination	5.93	6.73	7.000	4.330
2	ATC_SU	14316019	Near Bit VSS	5.93	6.73	7.000	4.330
2	ATC_MWD	12398198	Gamma (single)	2.76	12.90	7.000	3.250
2	ATC_MWD	12398198	Directional (mag)	12.27	22.41	7.000	3.250
3	ATC_SU	12552452	Near Bit VSS	5.93	6.73	7.000	4.330
3	ATC_SU	12552452	Near Bit Inclination	5.93	6.73	7.000	4.330
3	ATC_MWD	12049472	Gamma (single)	2.75	12.90	7.000	3.250
3	ATC_MWD	12049472	Directional (mag)	12.27	22.42	7.000	3.250

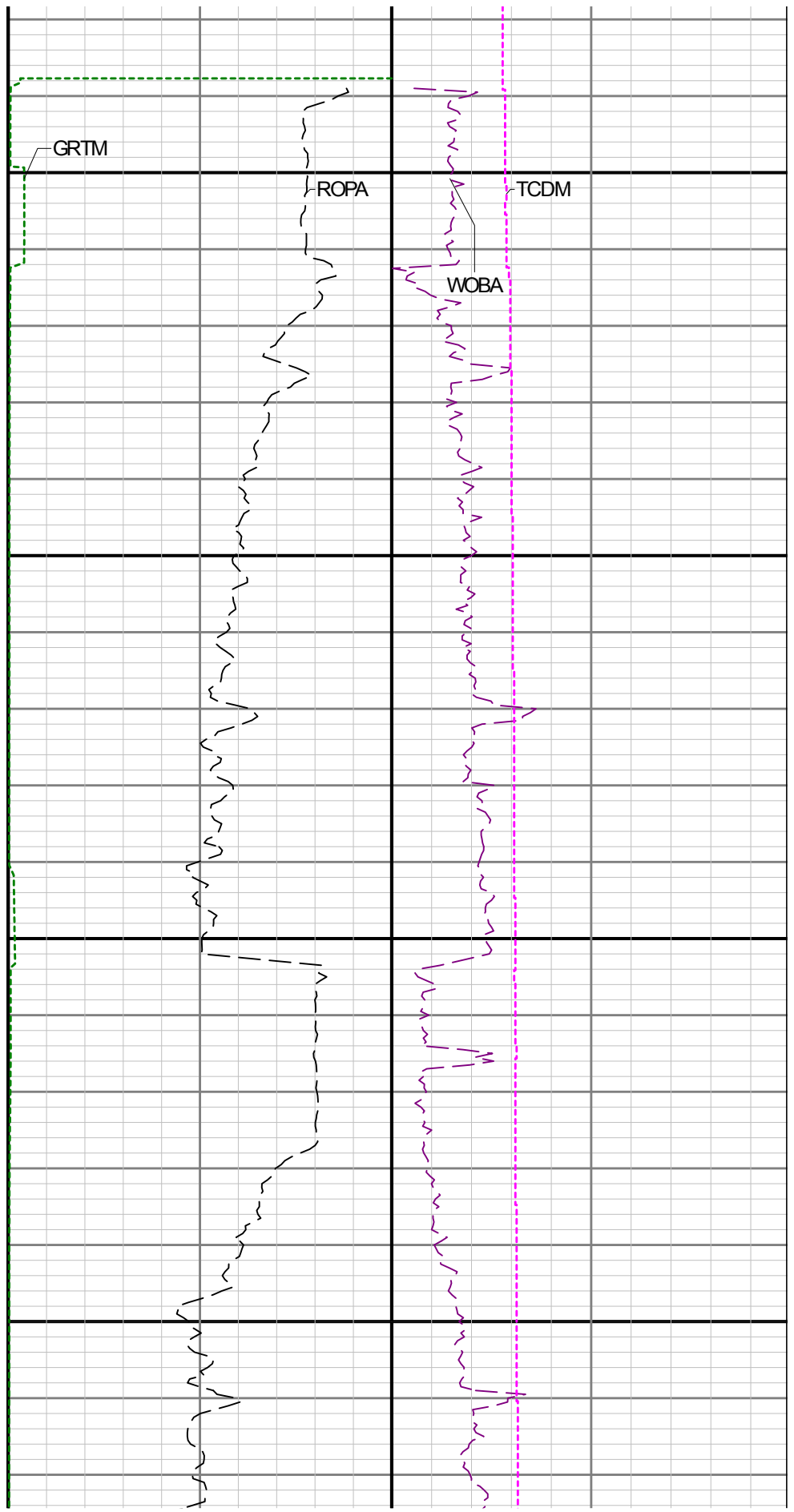
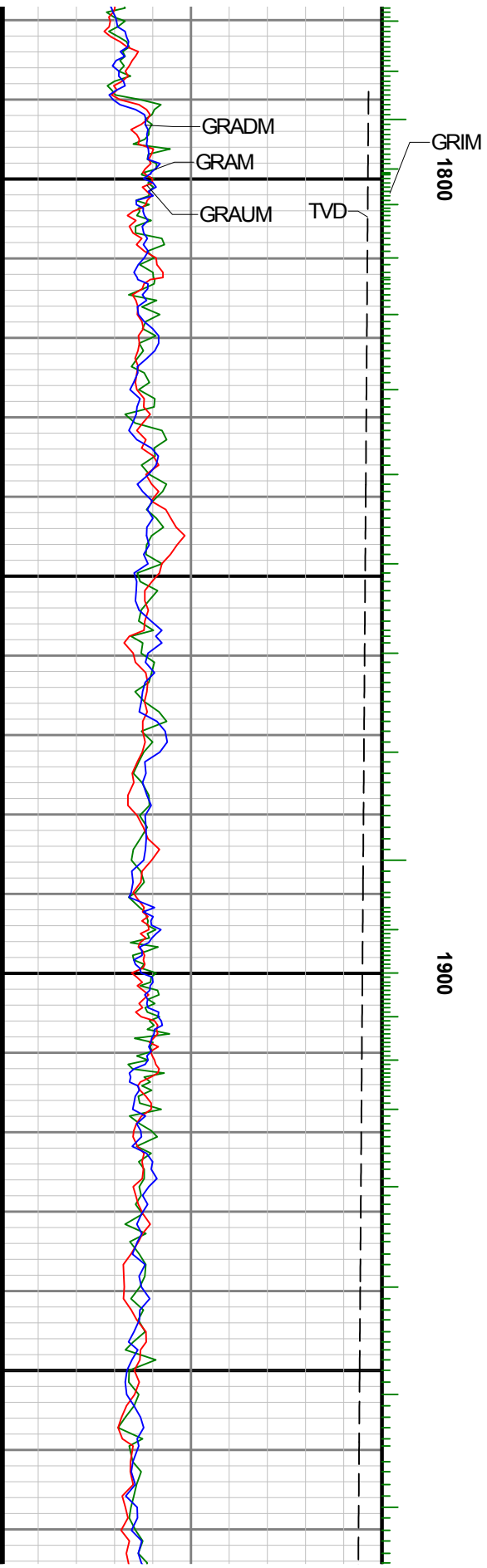
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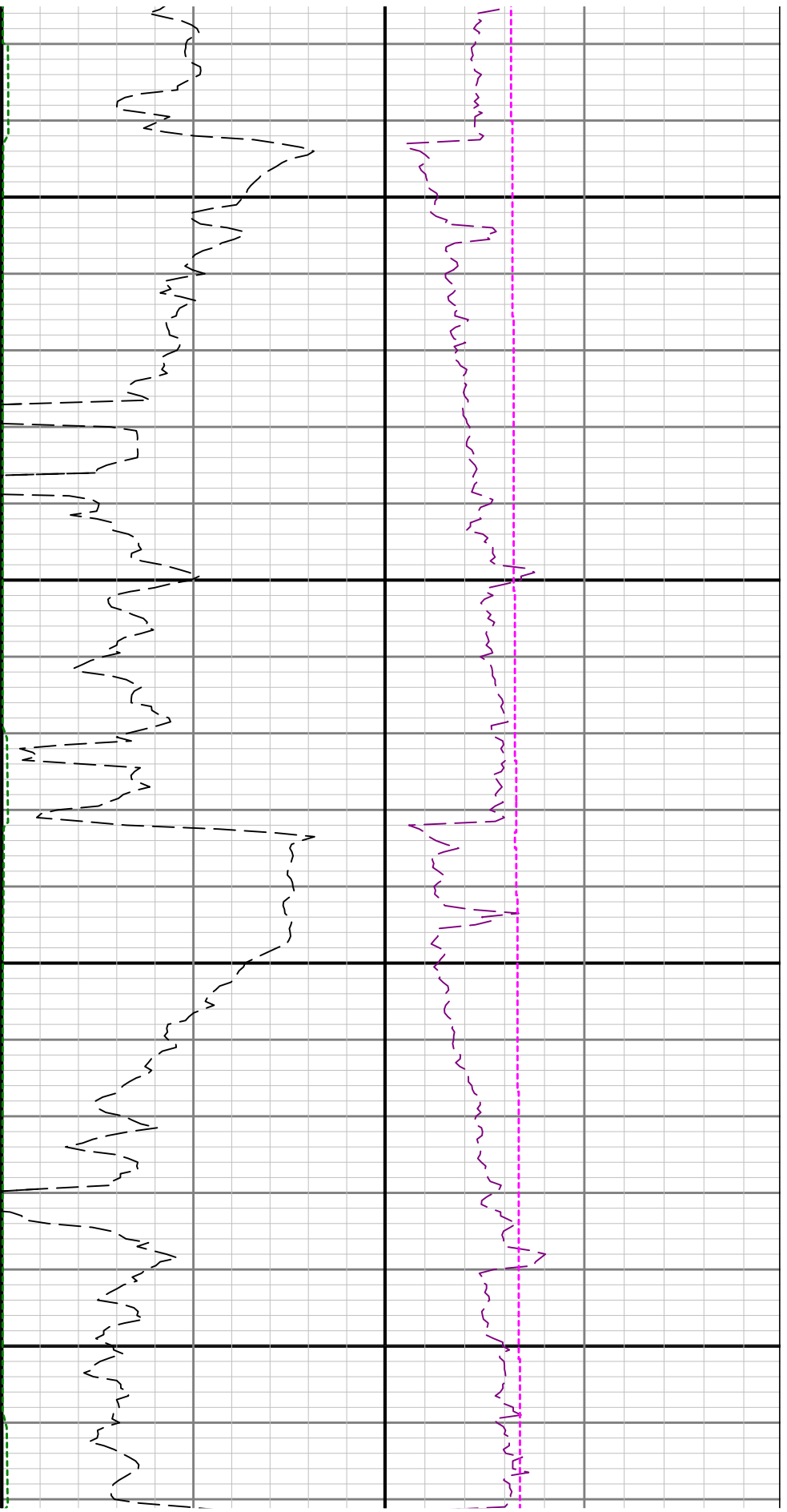
Mnemonic	Name	Description
ATC_SU	ATC_SU	Auto Trak Curve Steering Unit
ATC_MWD	ATC_MWD	Auto Trak Curve MWD
ATC_LCPM	ATC_LCPM	Auto Trak Curve LCPM

Comments

1	Depth measurements 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.
2	Baker Hughes LWD Run 1 utilized 8 inch APS EM Services (Directional only) behind a 13 1/2 inch bit and steerable assembly from surface to 1787 feet MD (surface to 1726 feet TVD). No logging data was acquired during this run.
3	Baker Hughes LWD Runs 2 and 3 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 1/2 inch bit and rotary steerable assembly from 1787 to 13673 feet MD (1726 to 7279 feet TVD).
4	Gamma Ray Curve (GRAM) is presented 0 to 300 API per customer request.

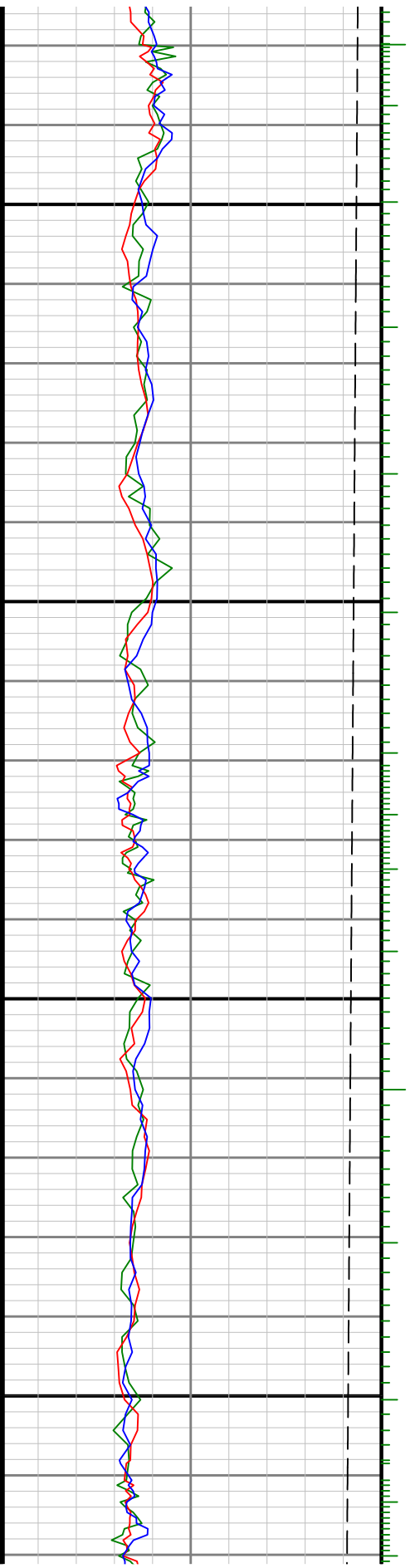
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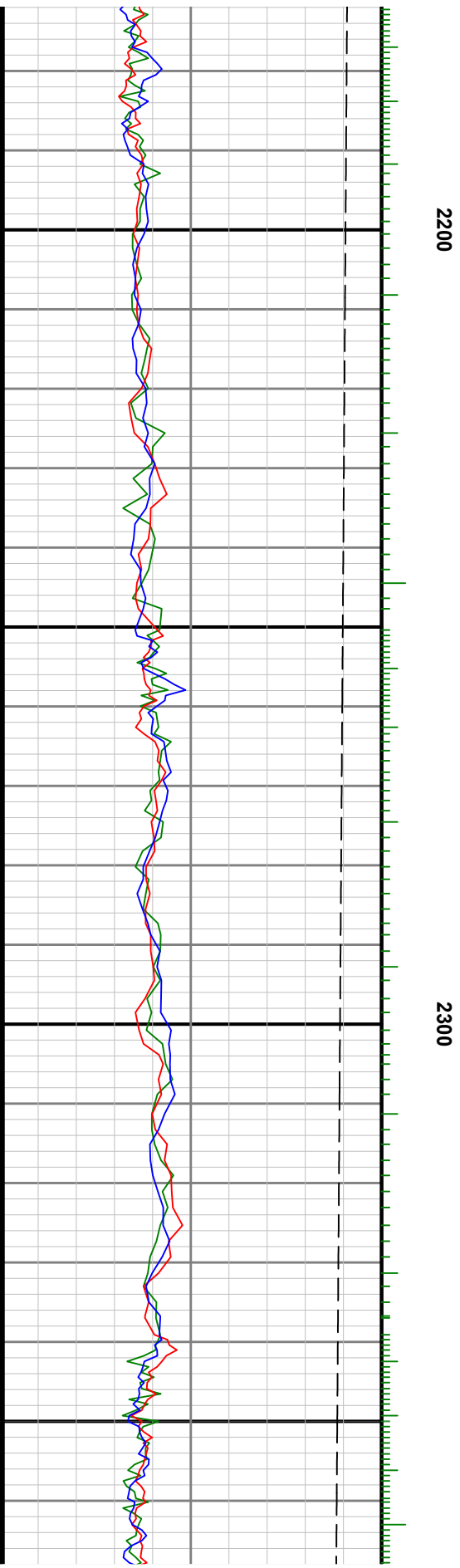
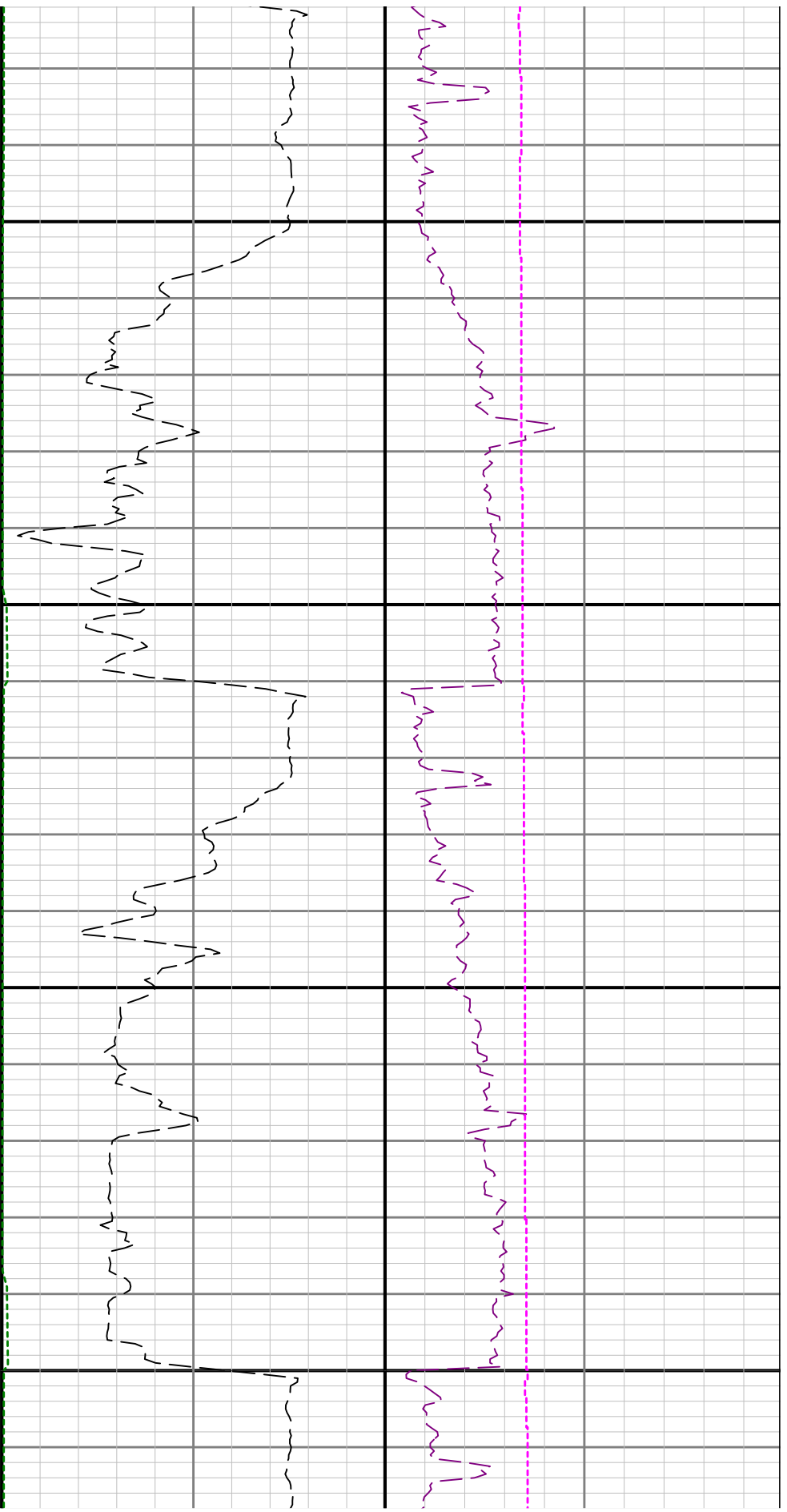


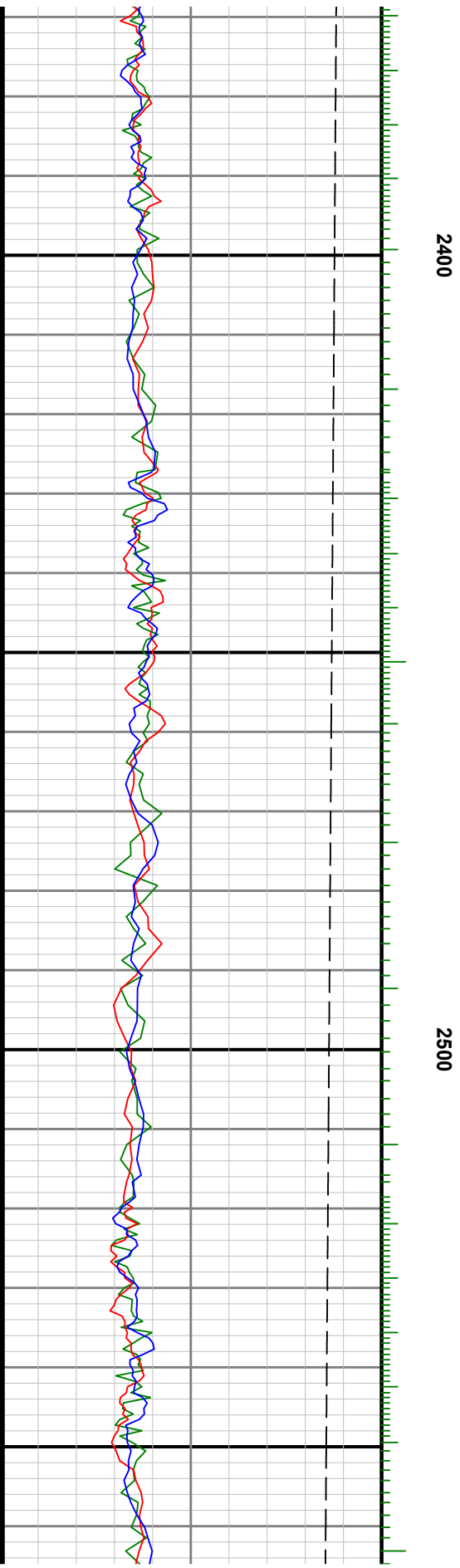
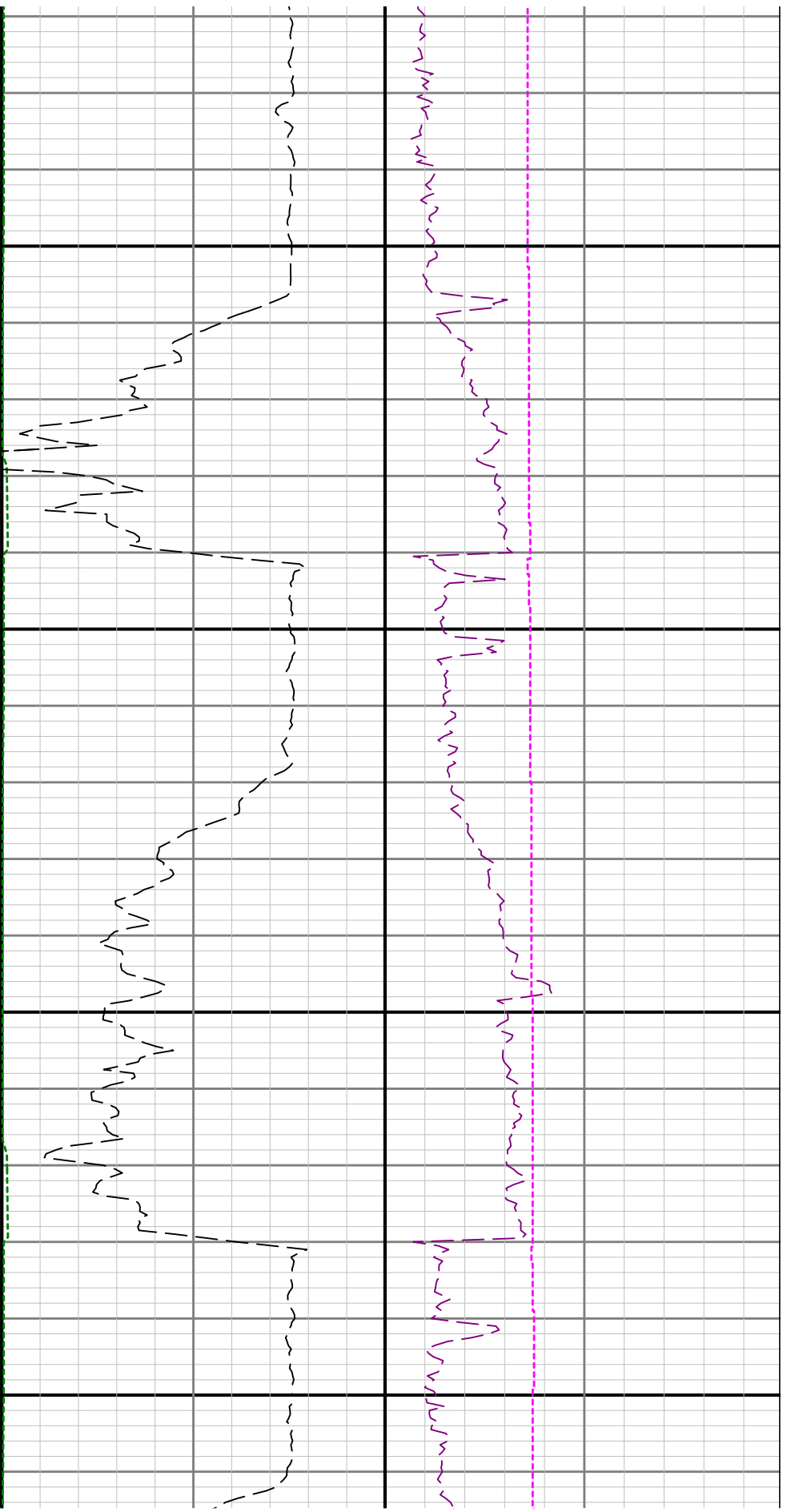


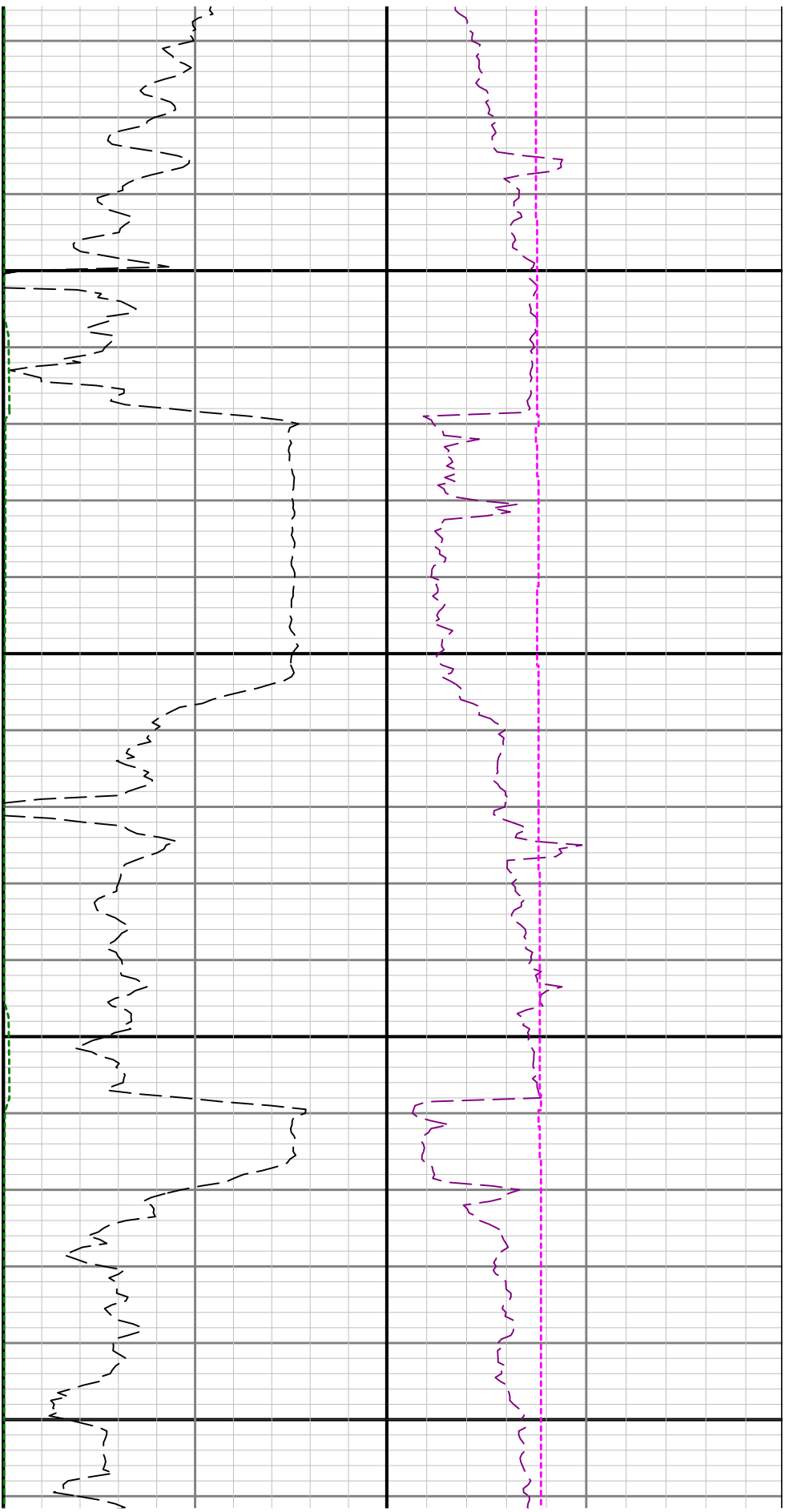
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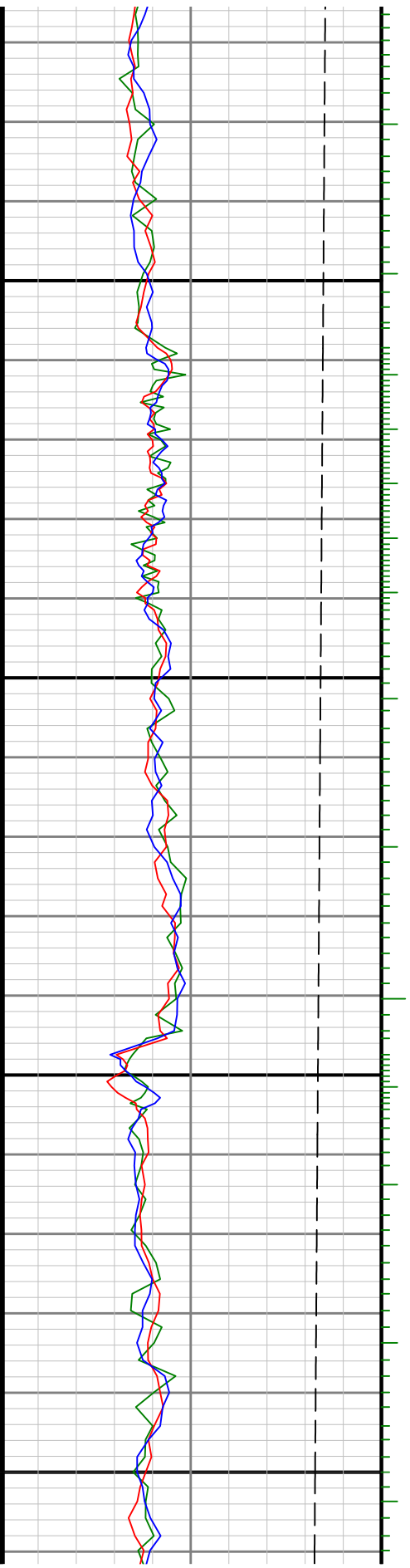


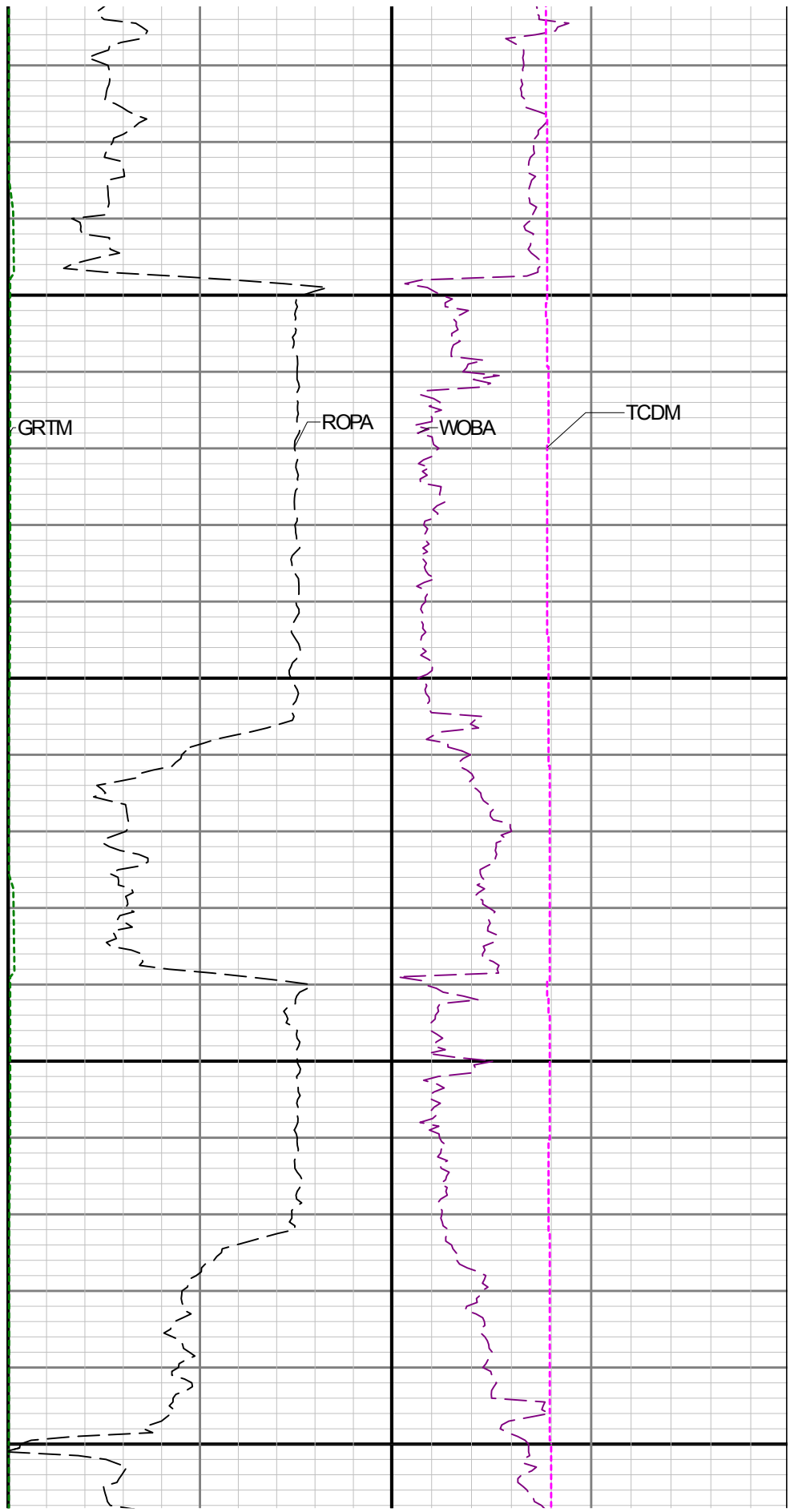
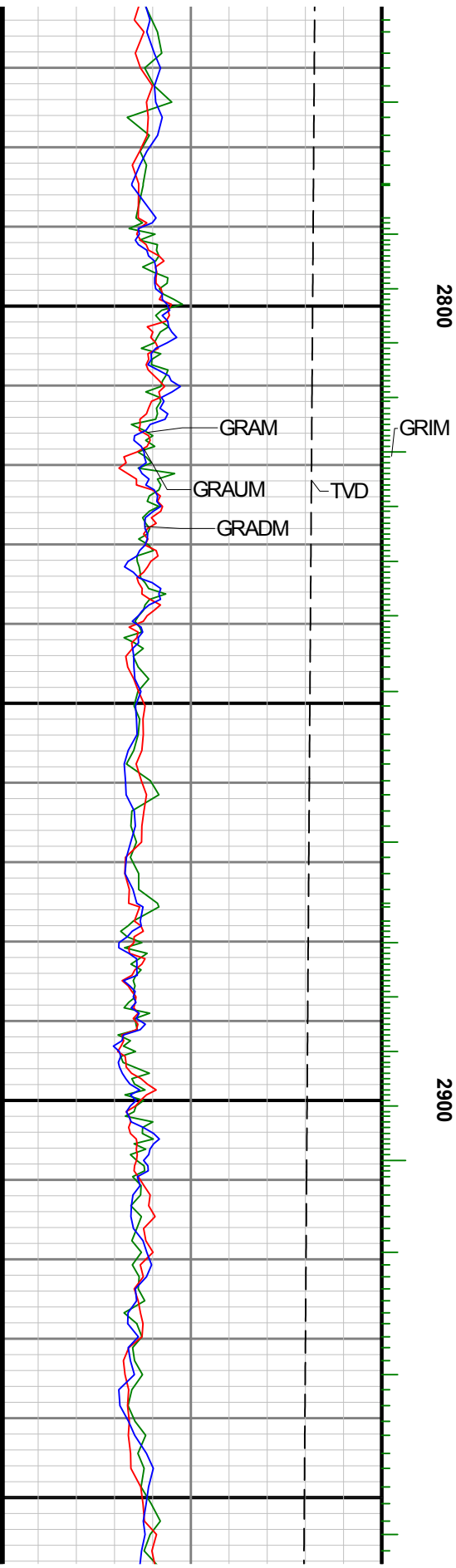


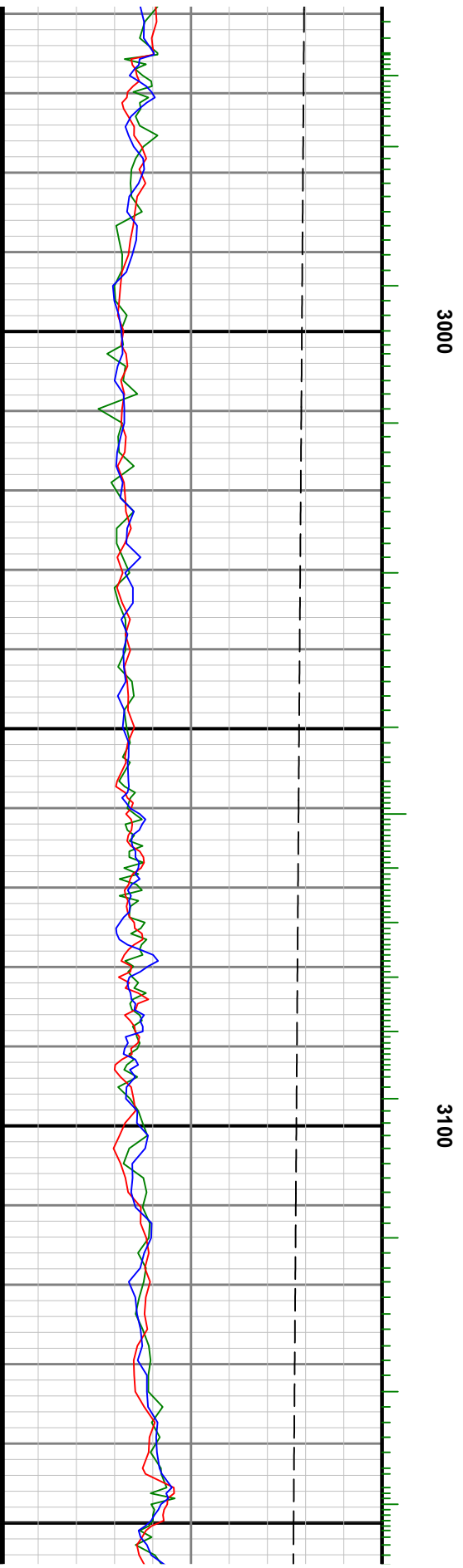
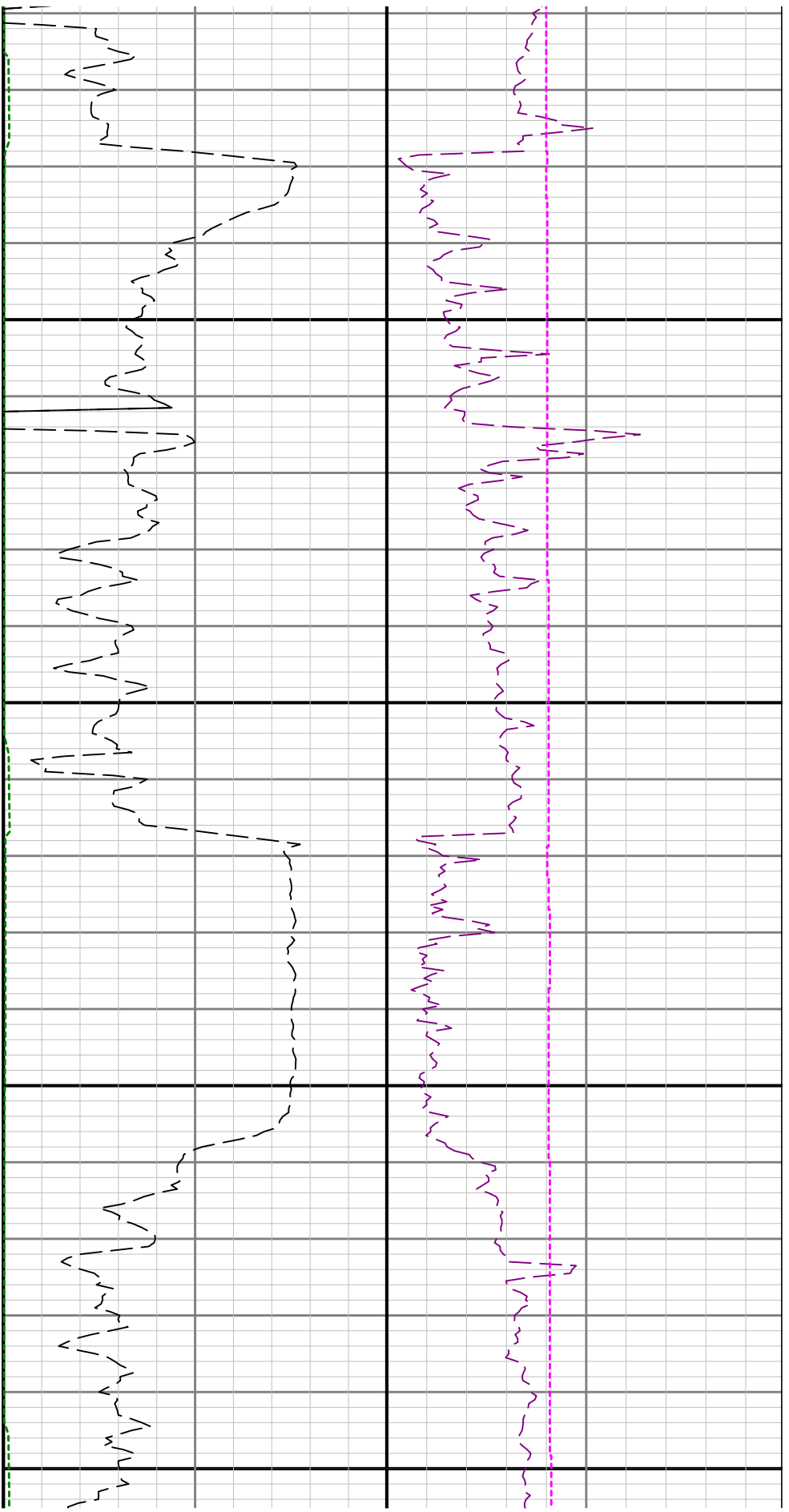


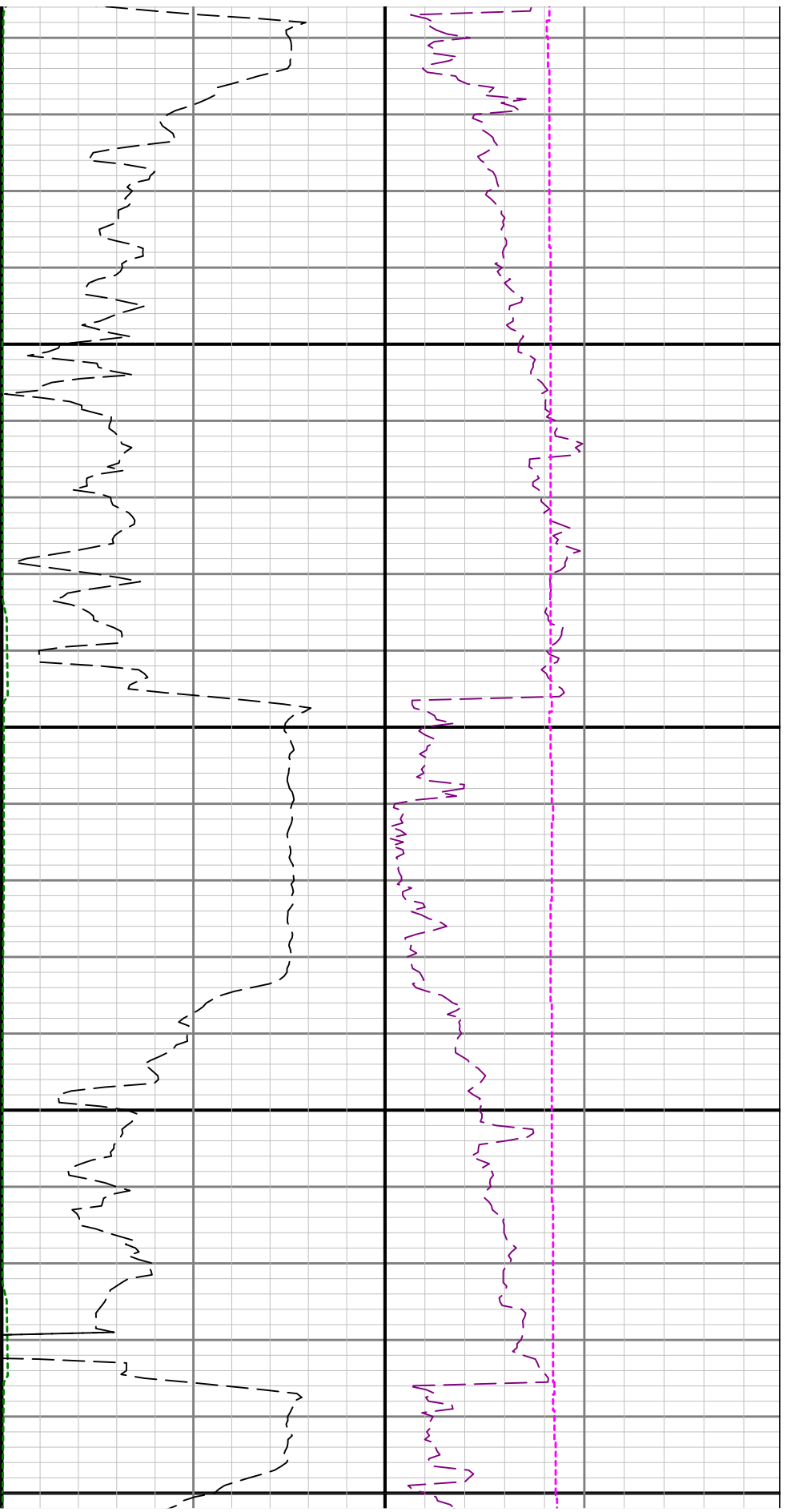
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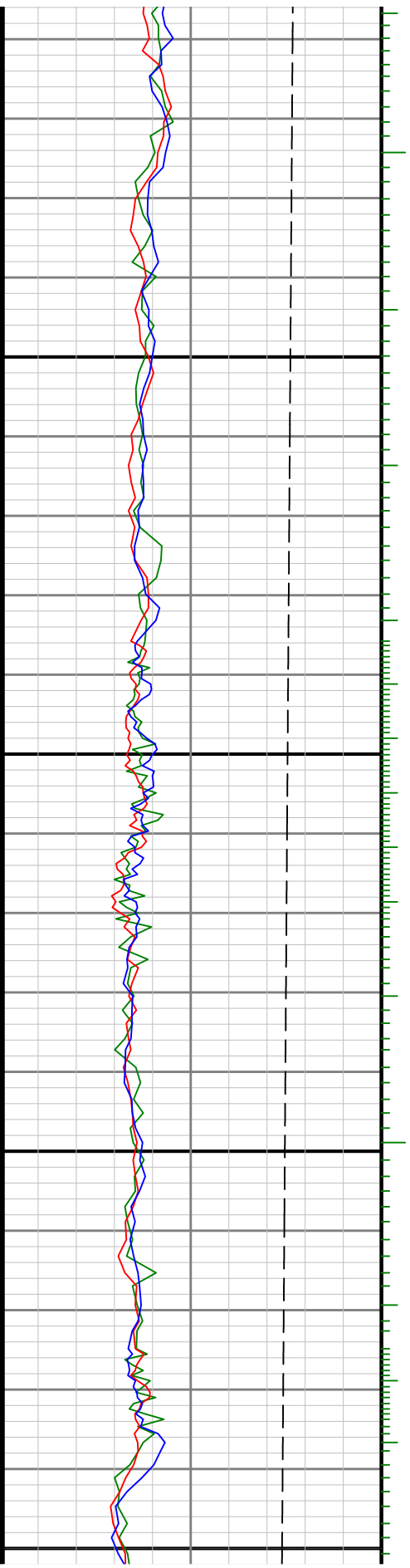


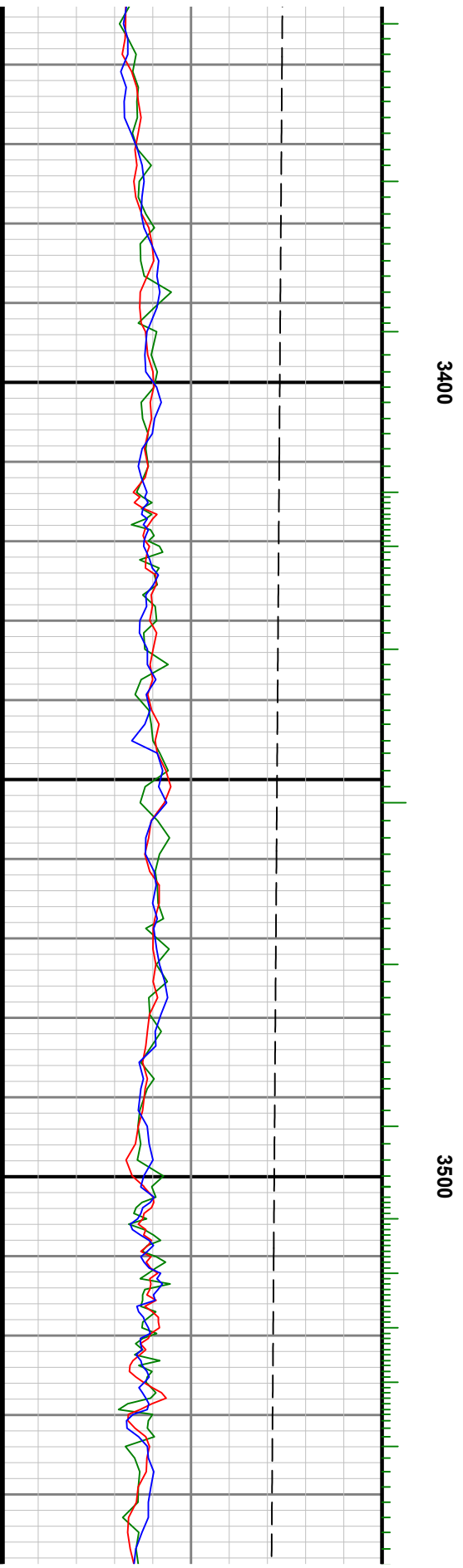
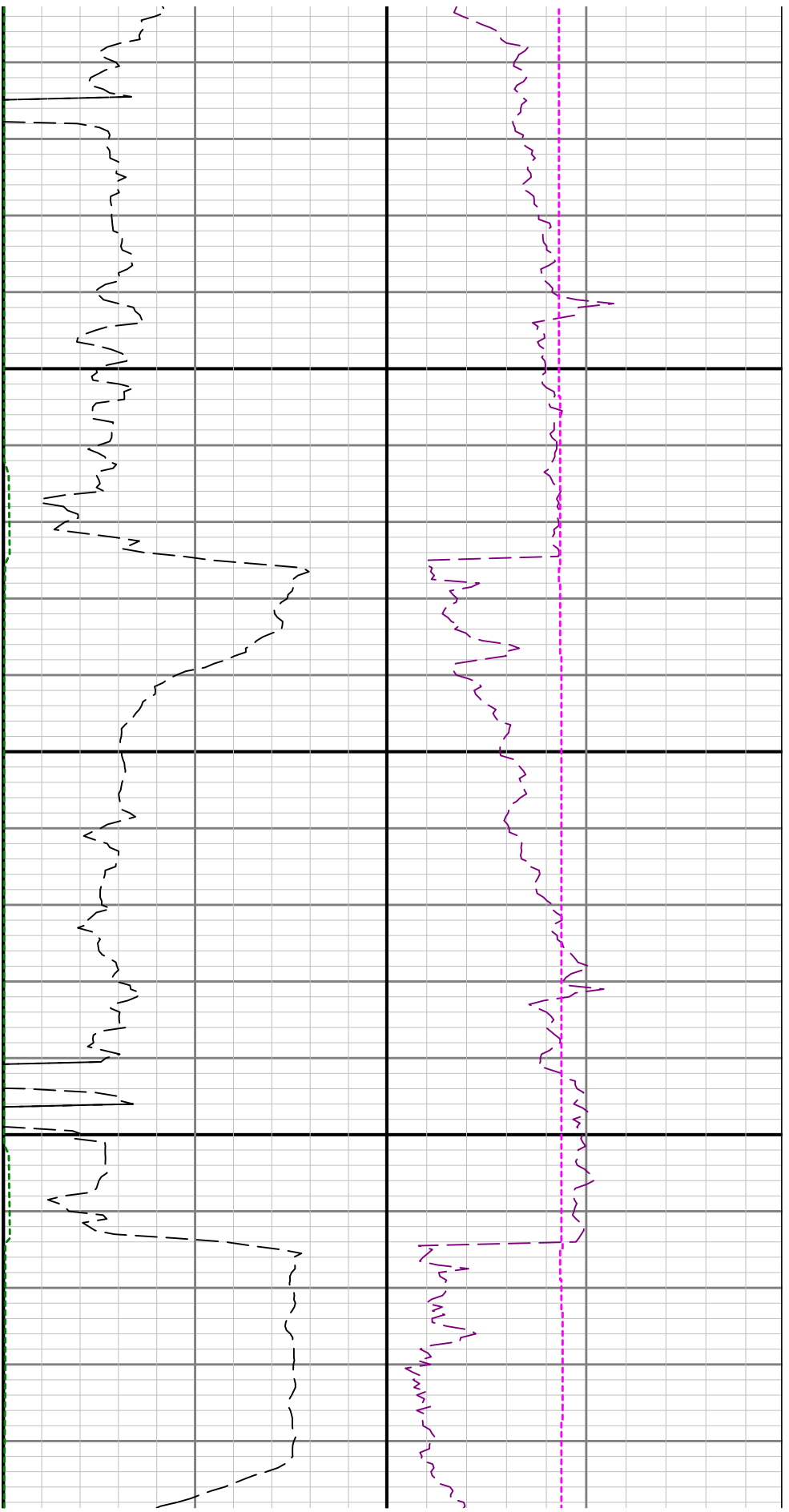


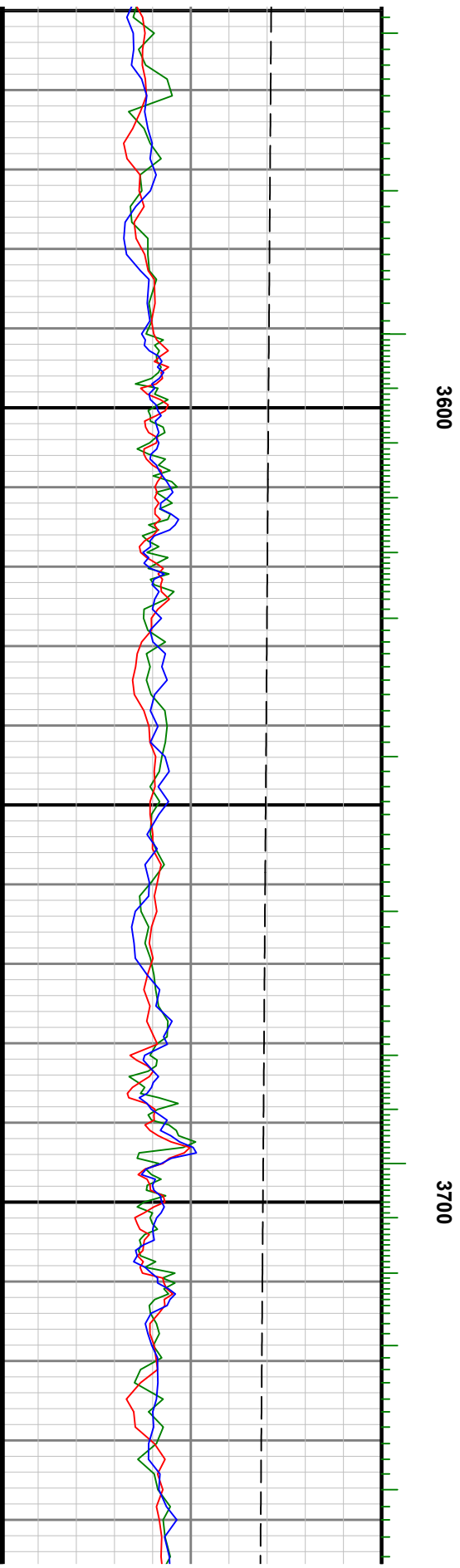
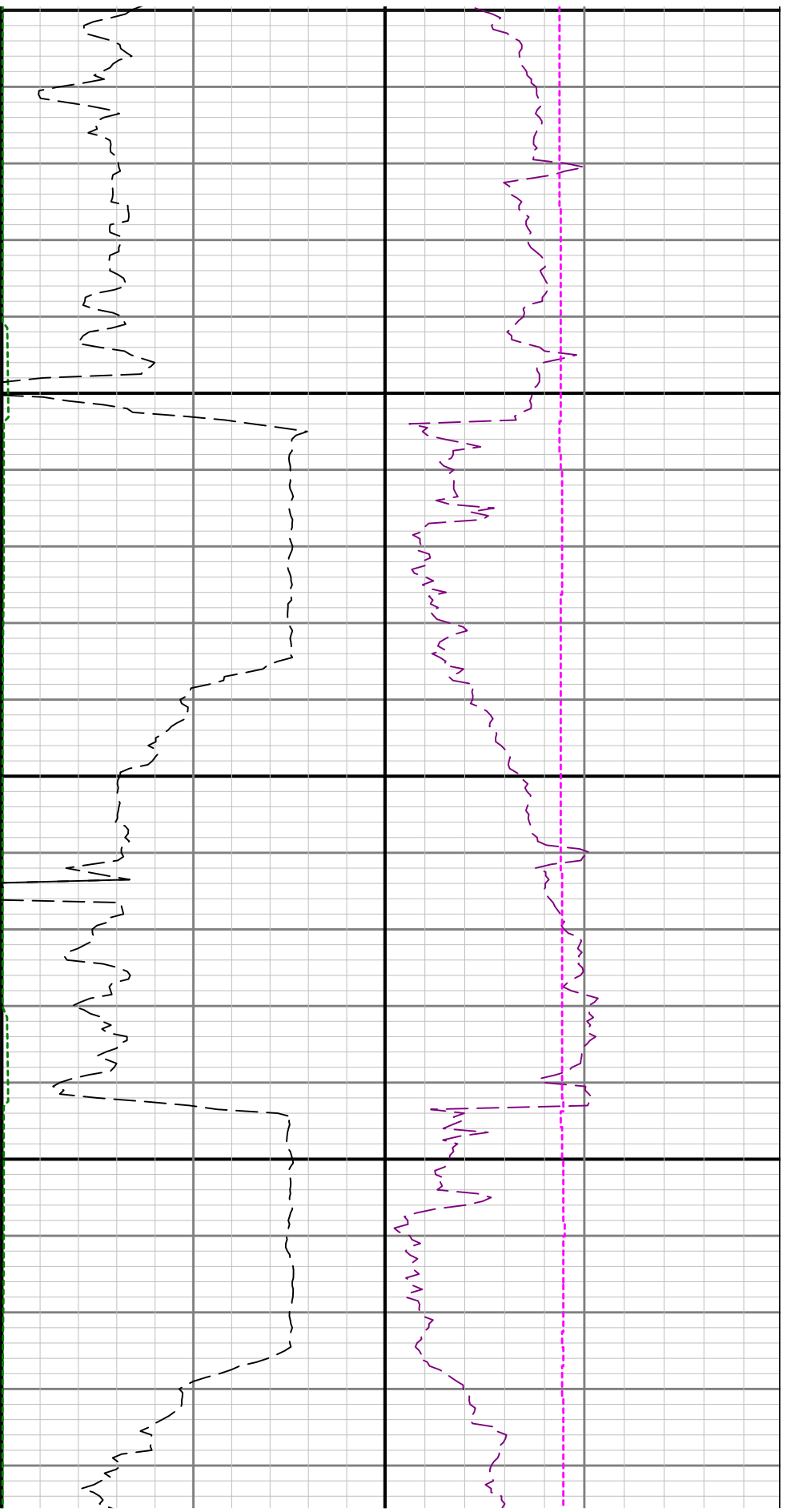


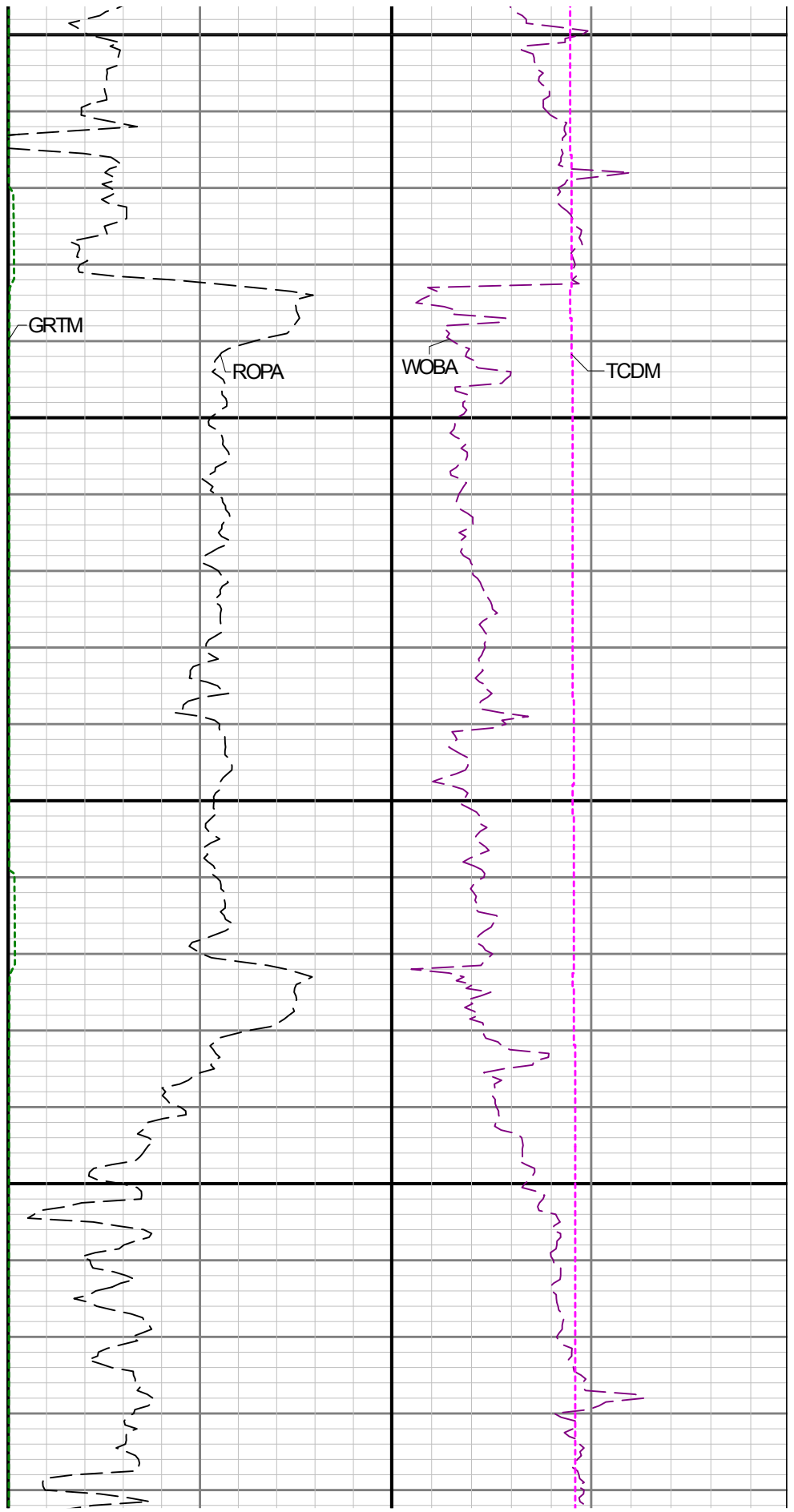
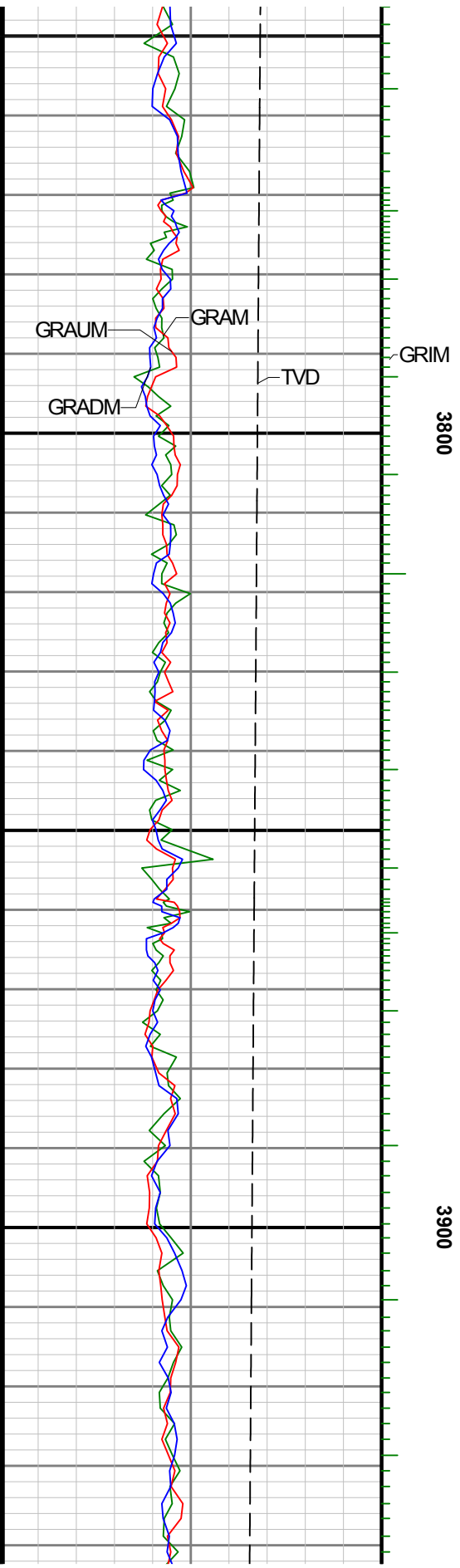
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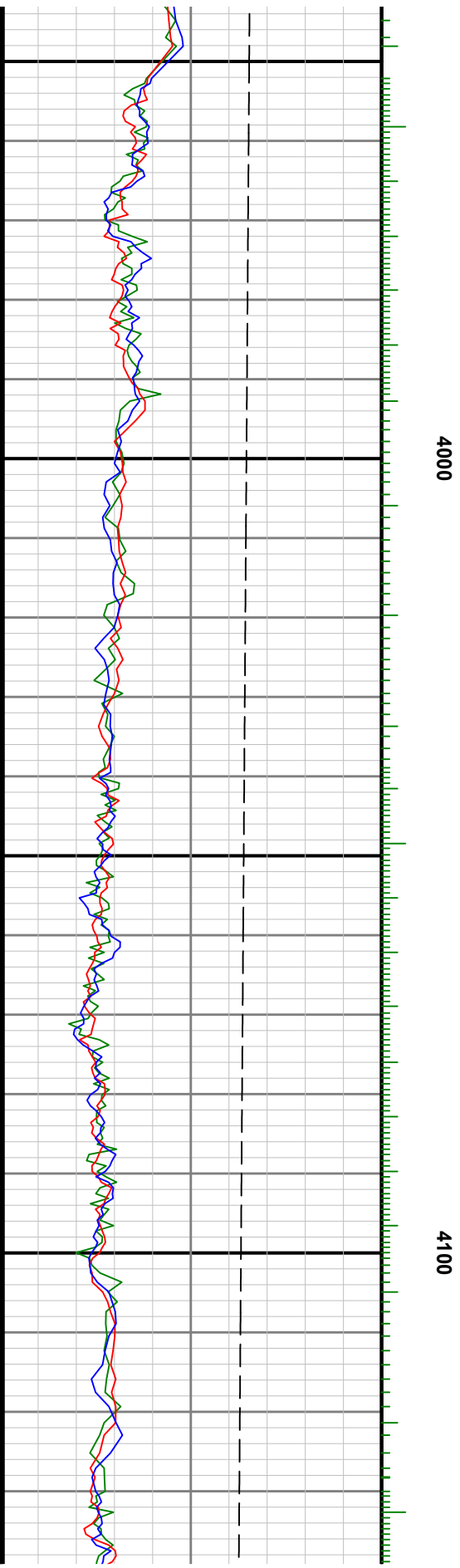
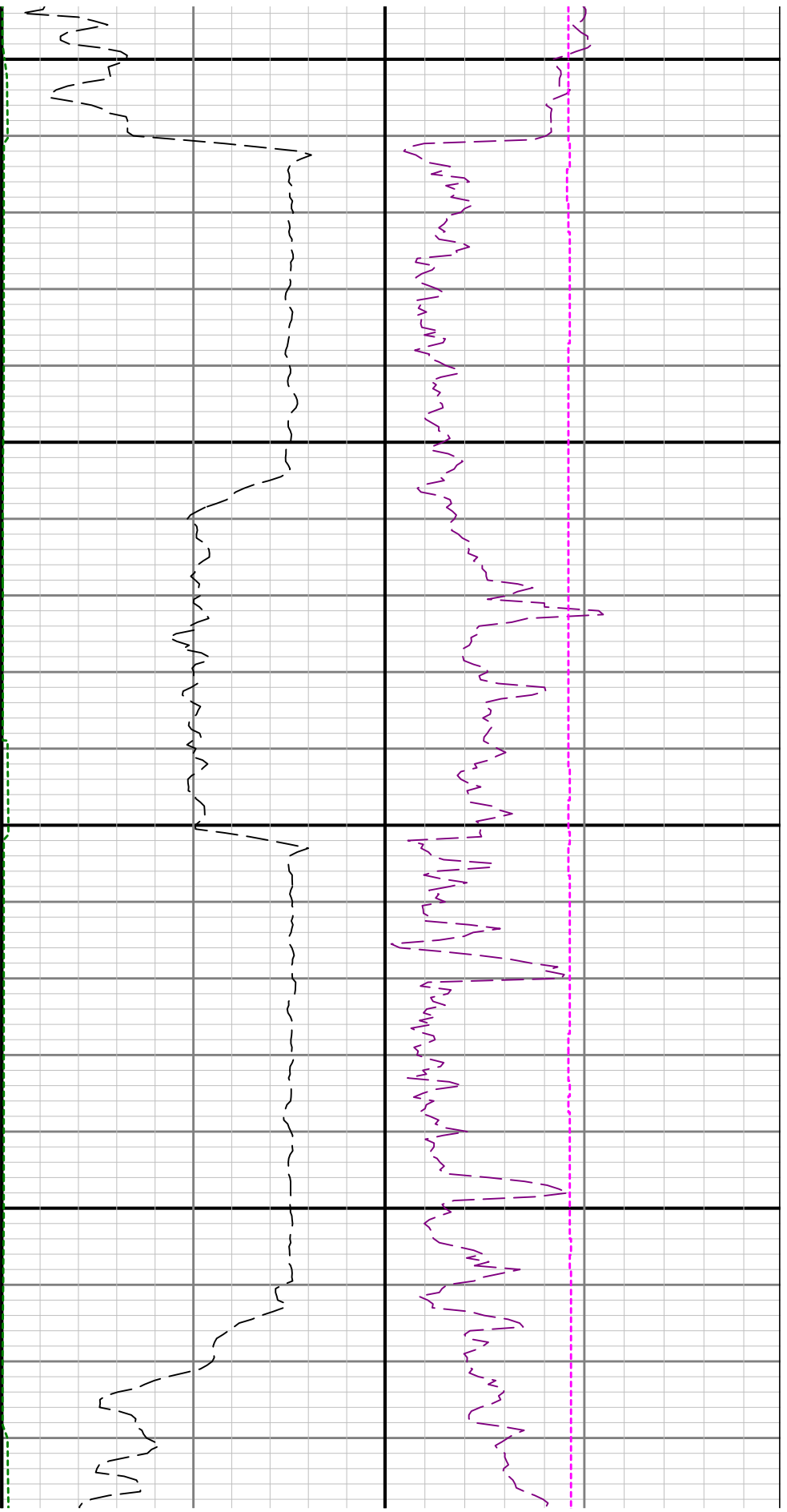
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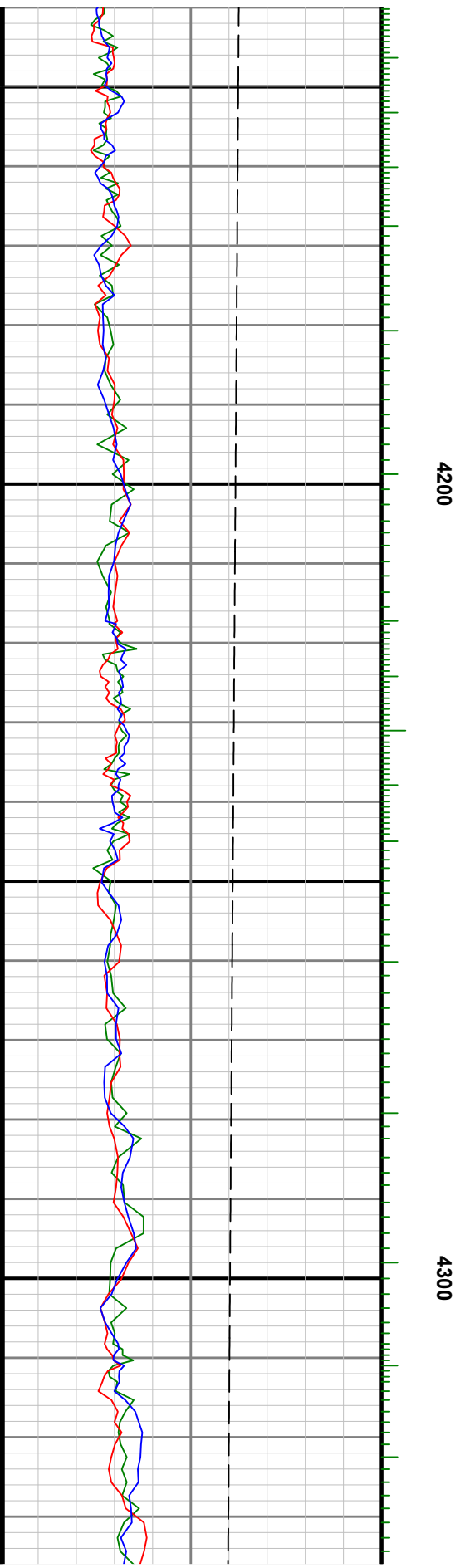
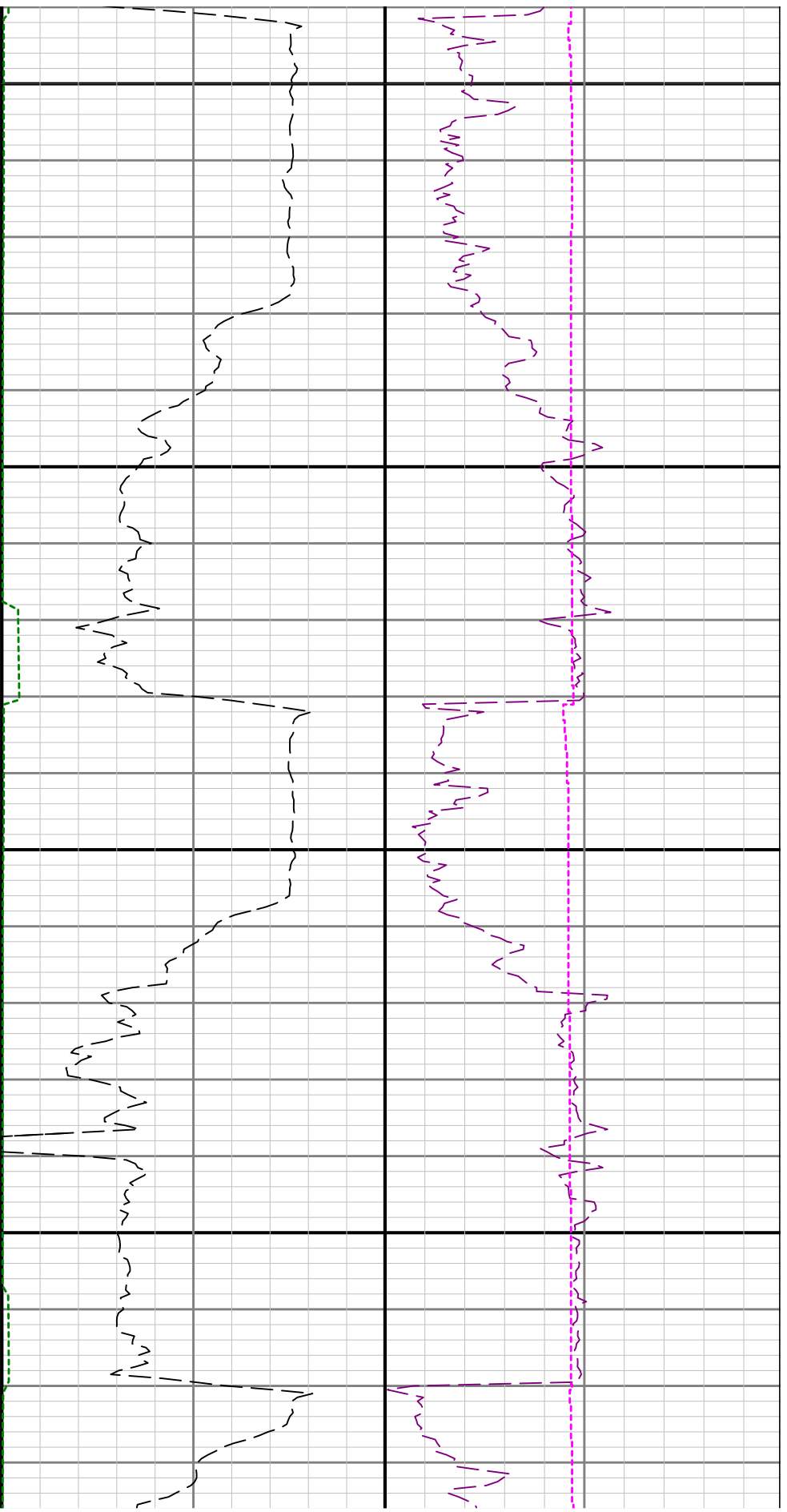


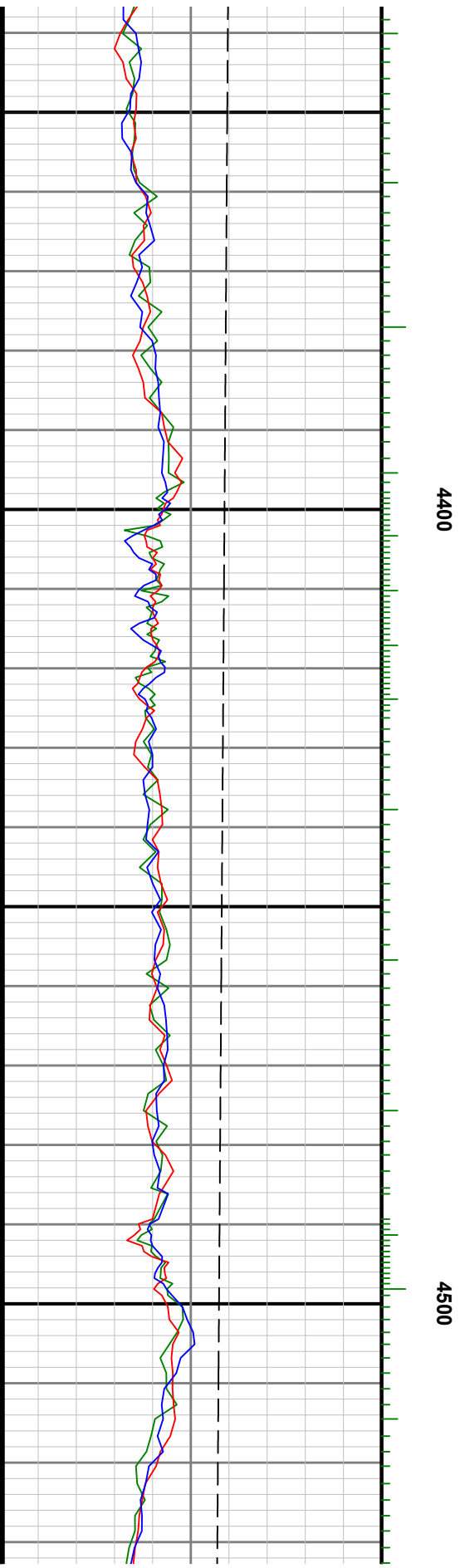
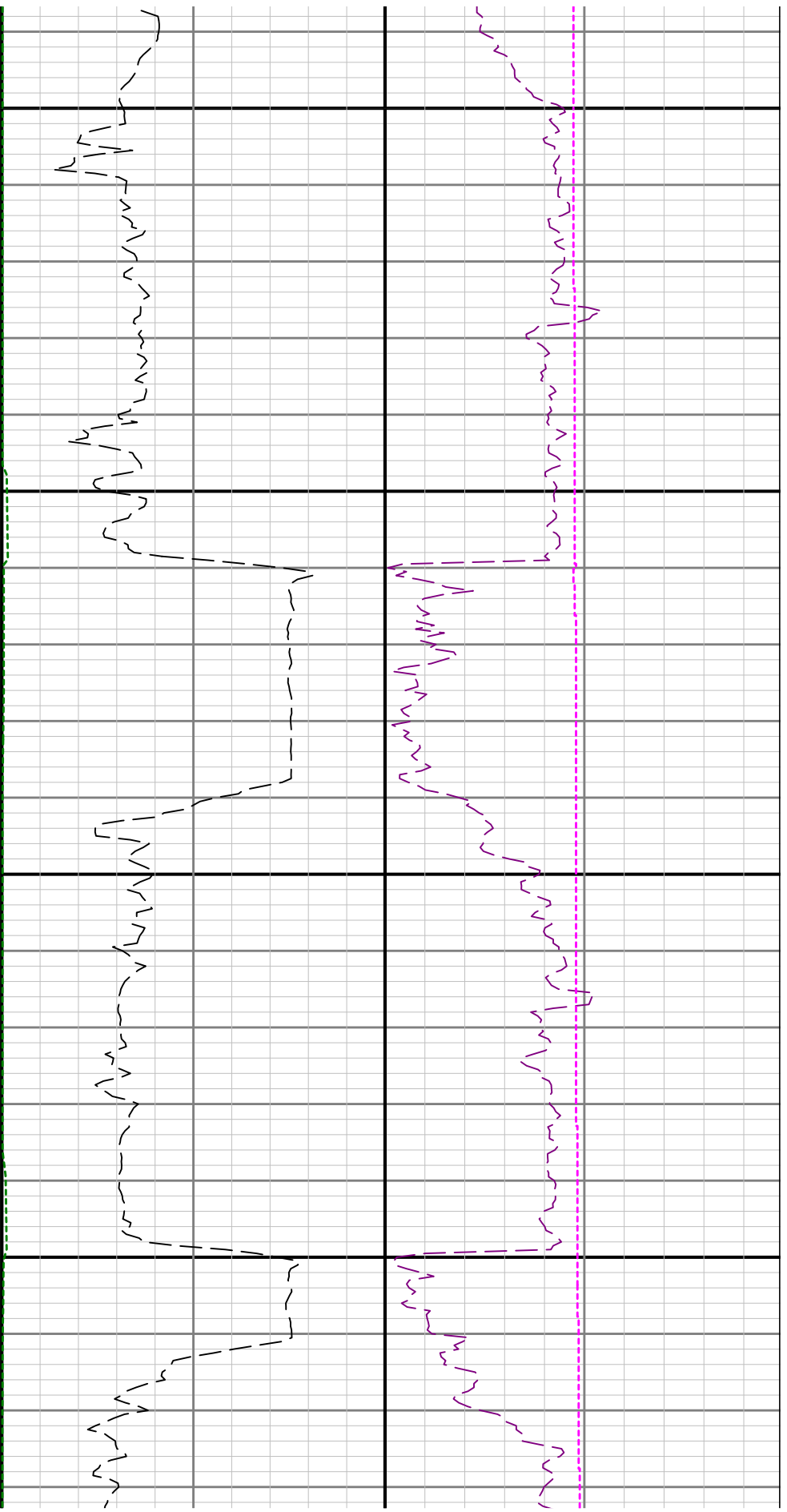


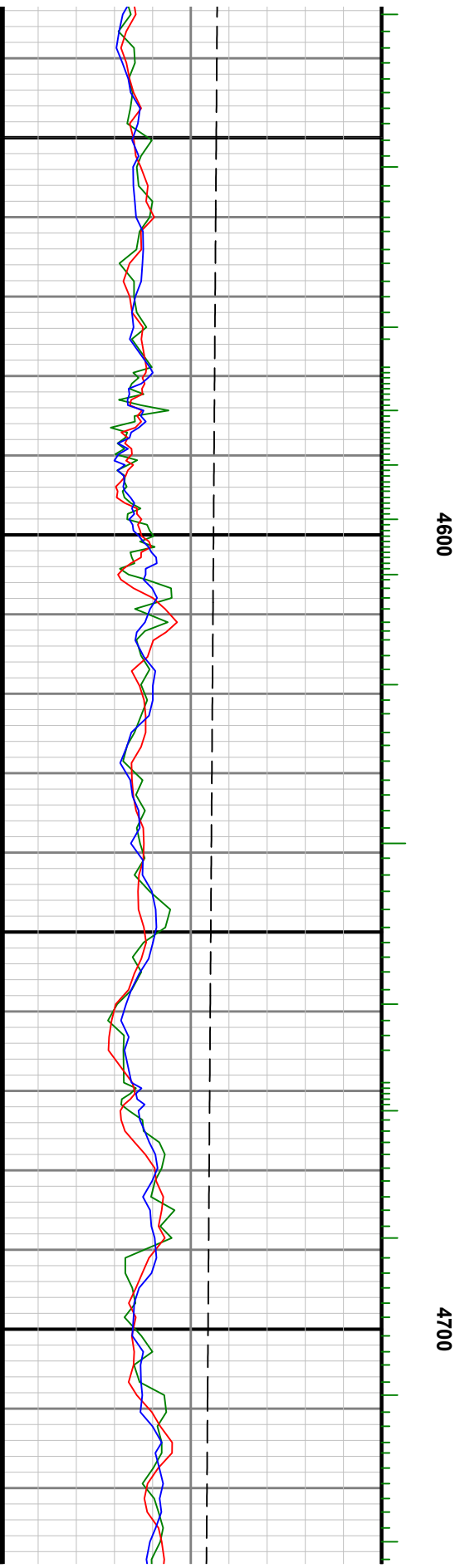
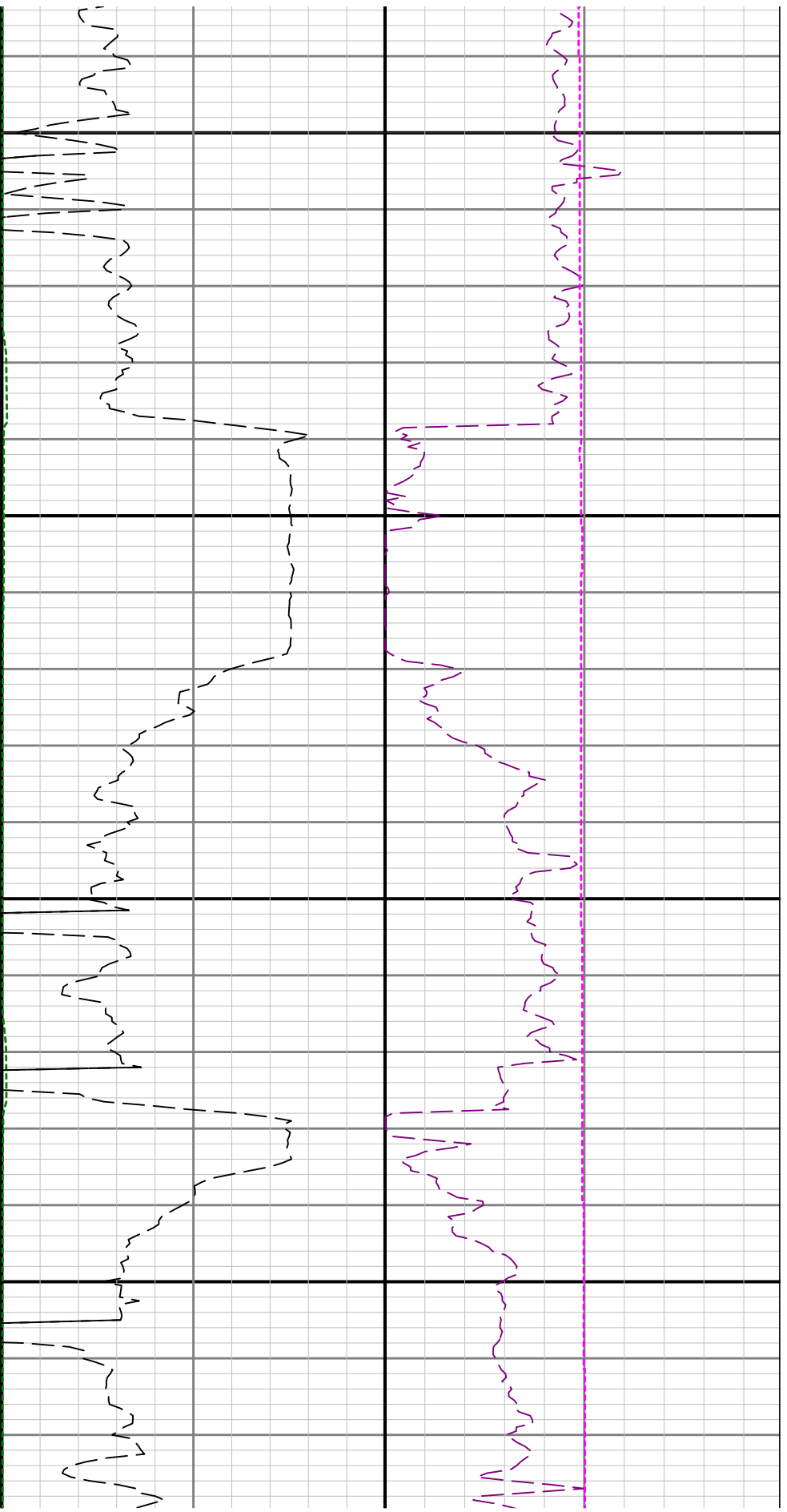


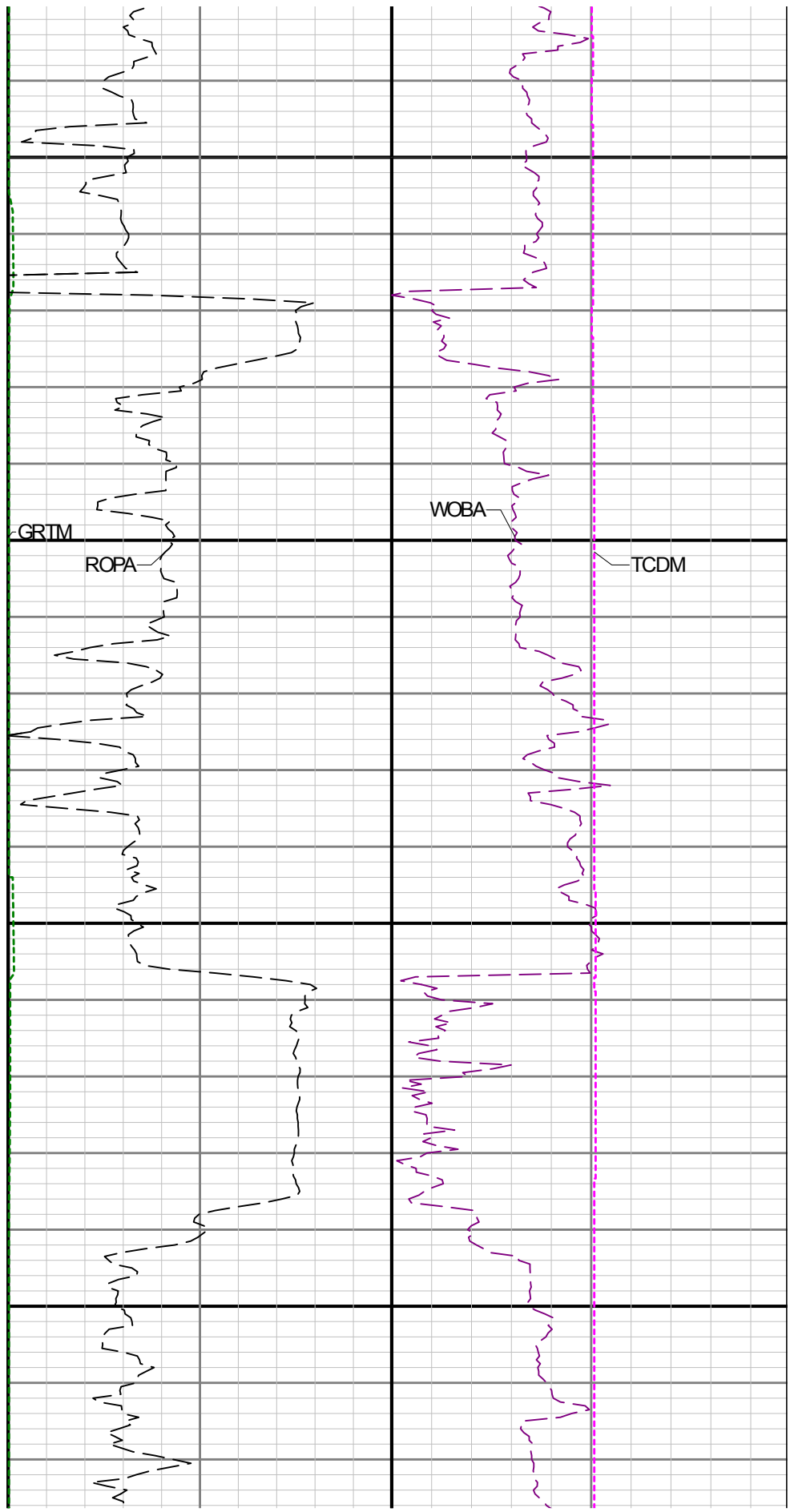
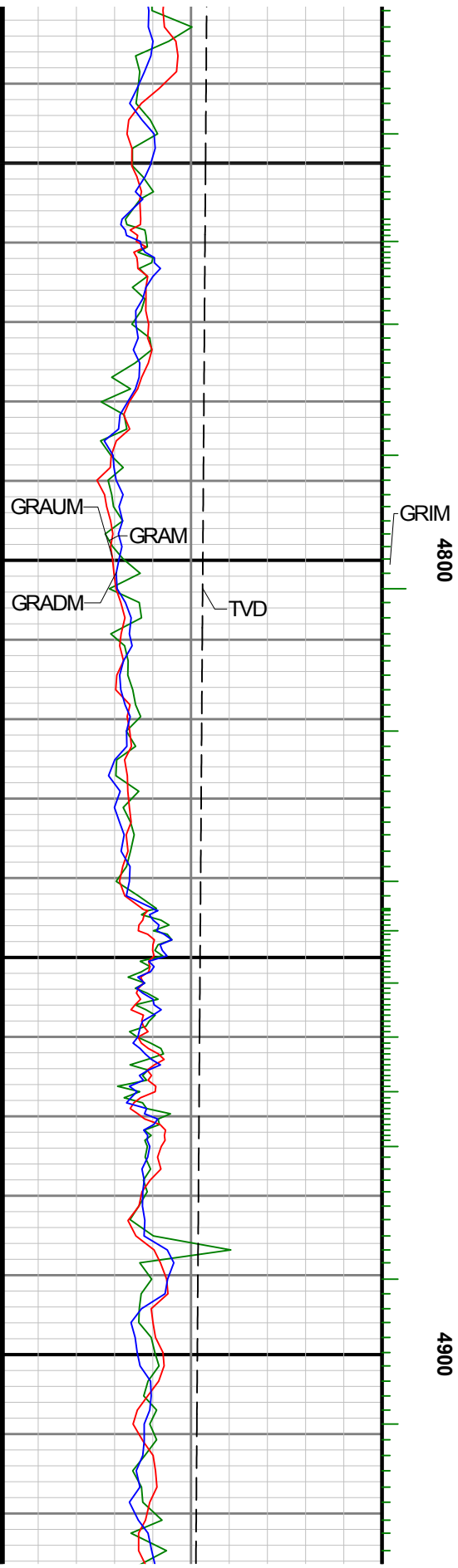


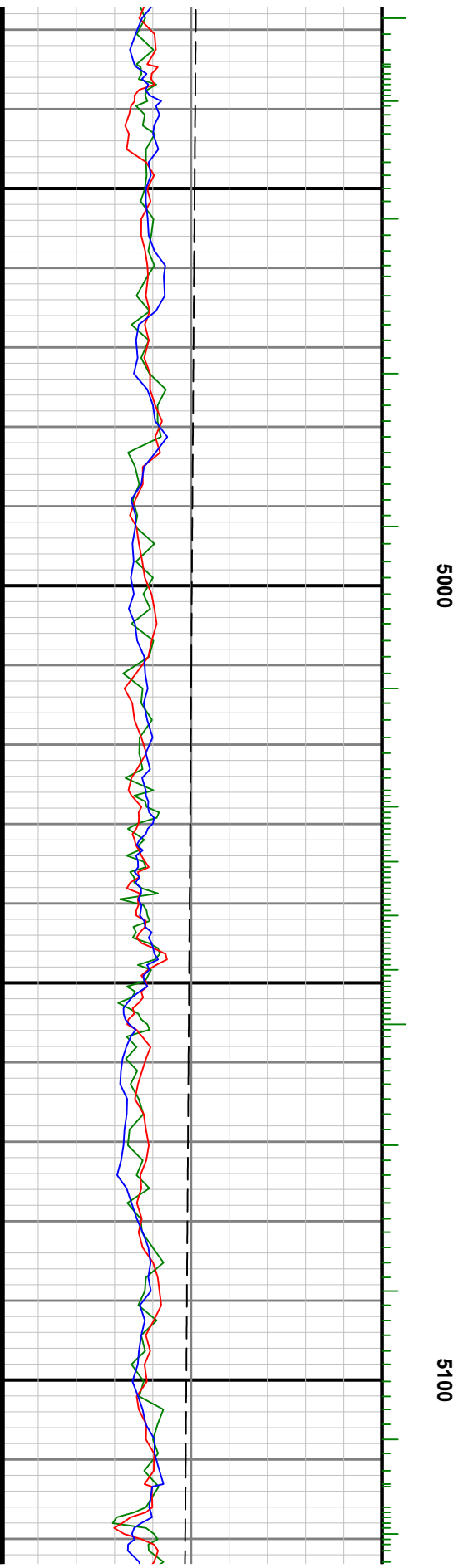


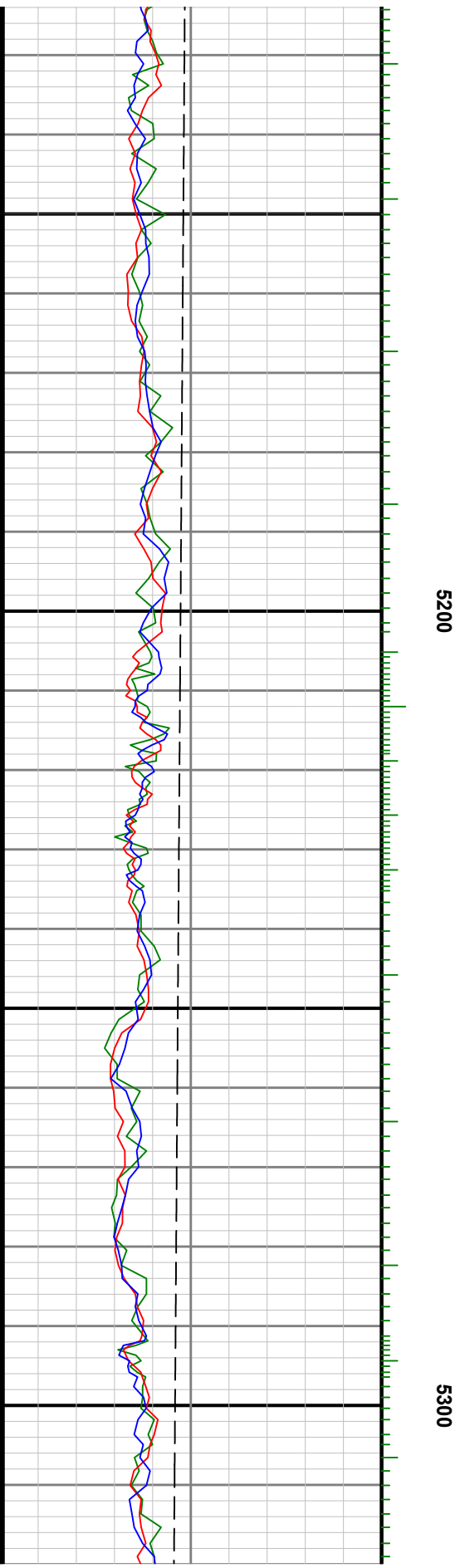
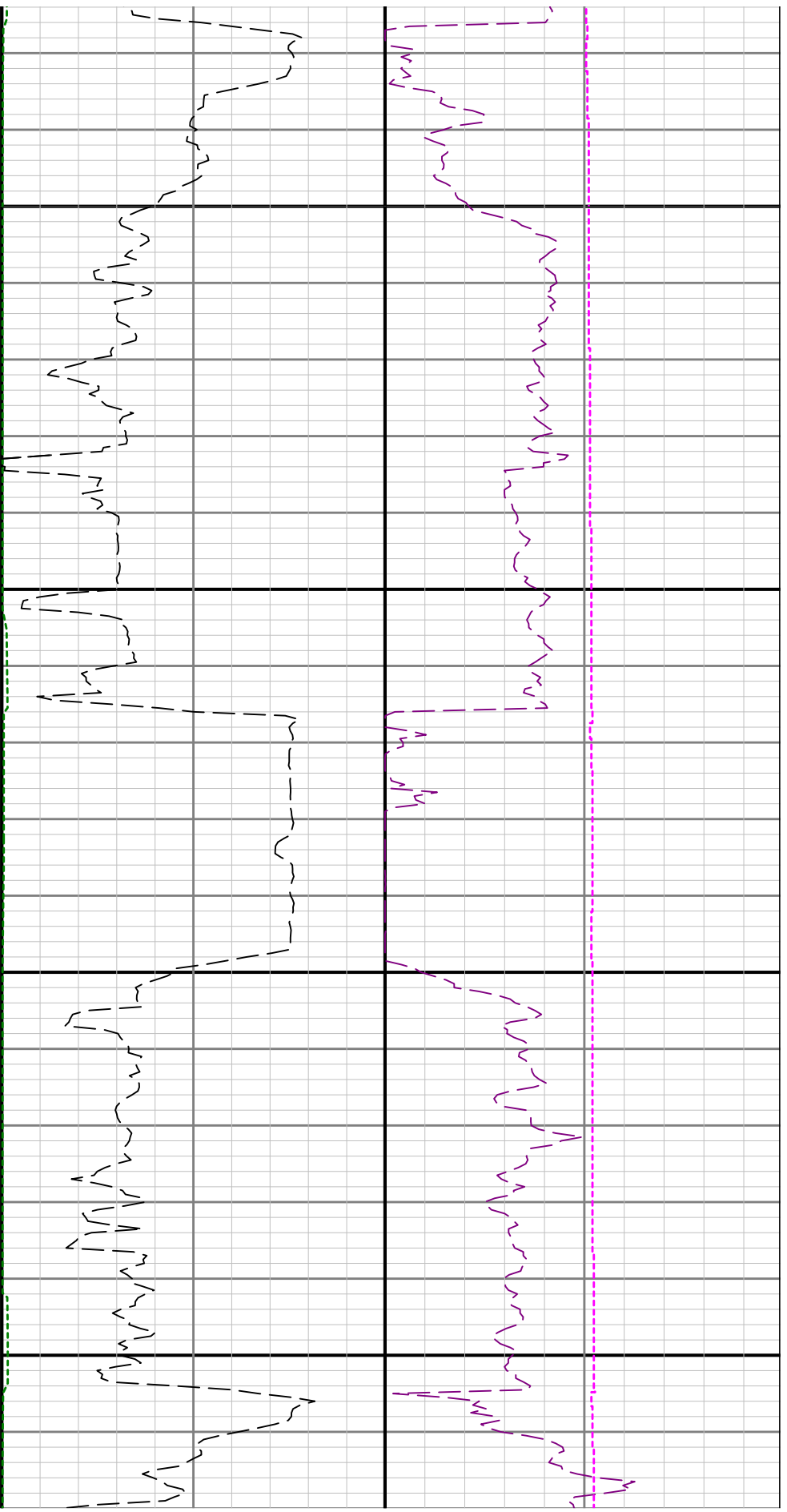


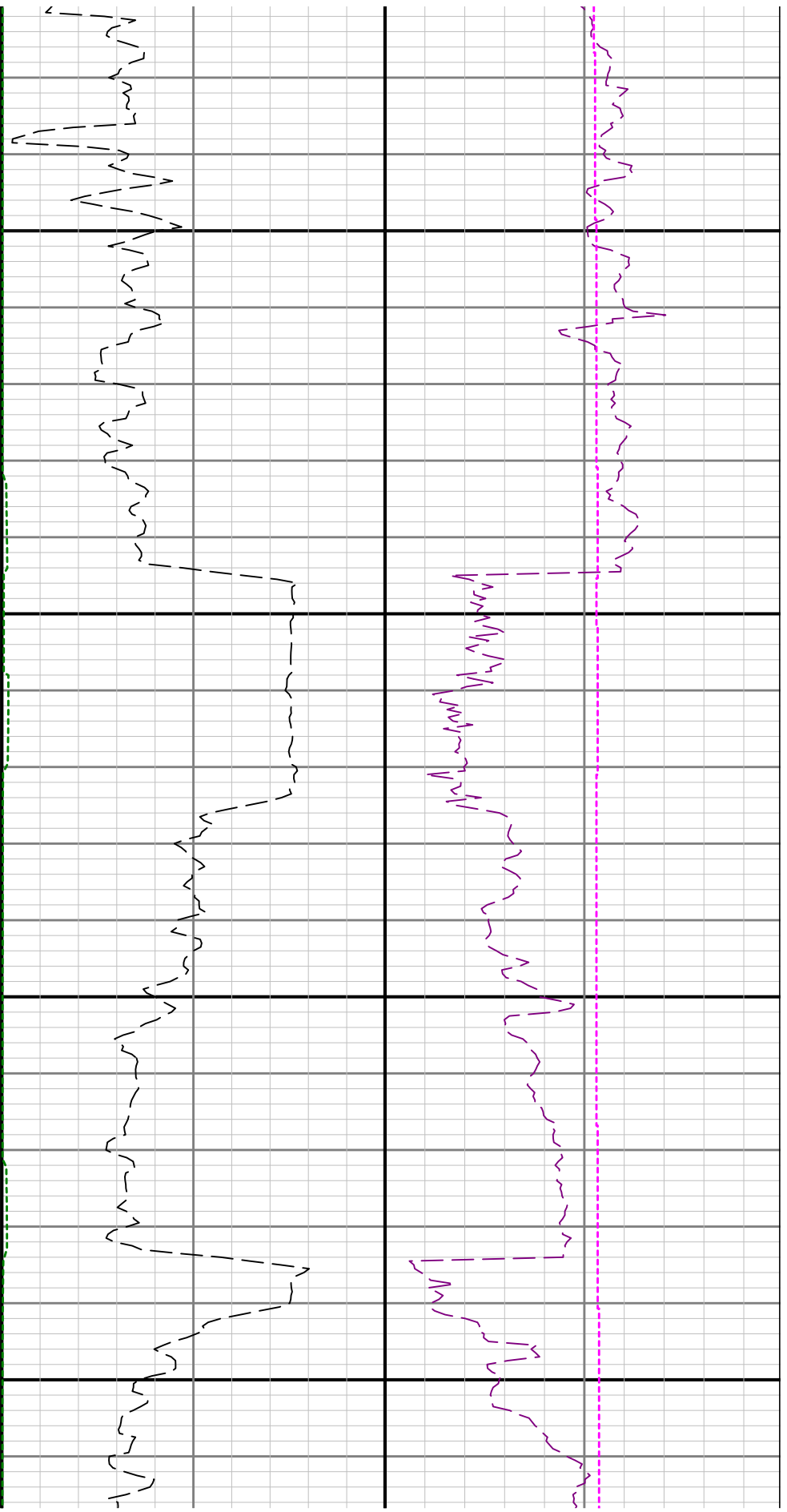






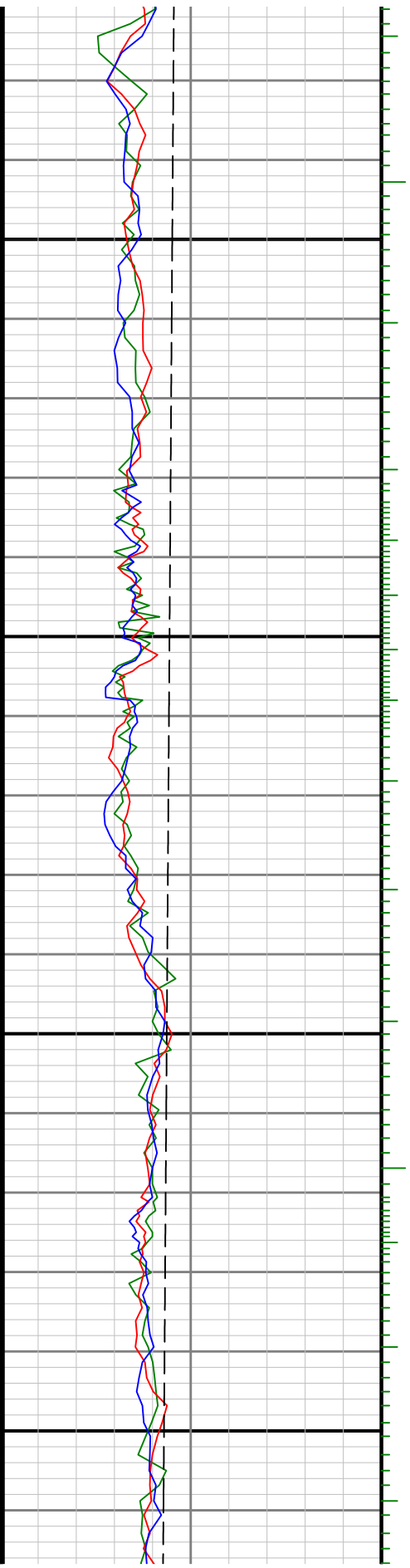


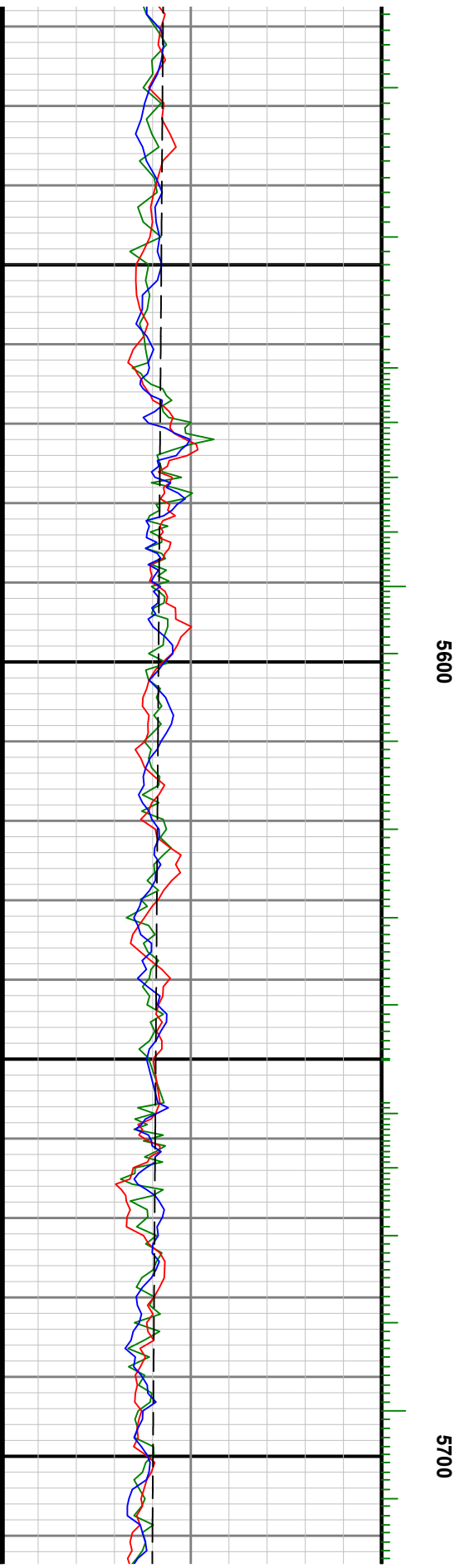
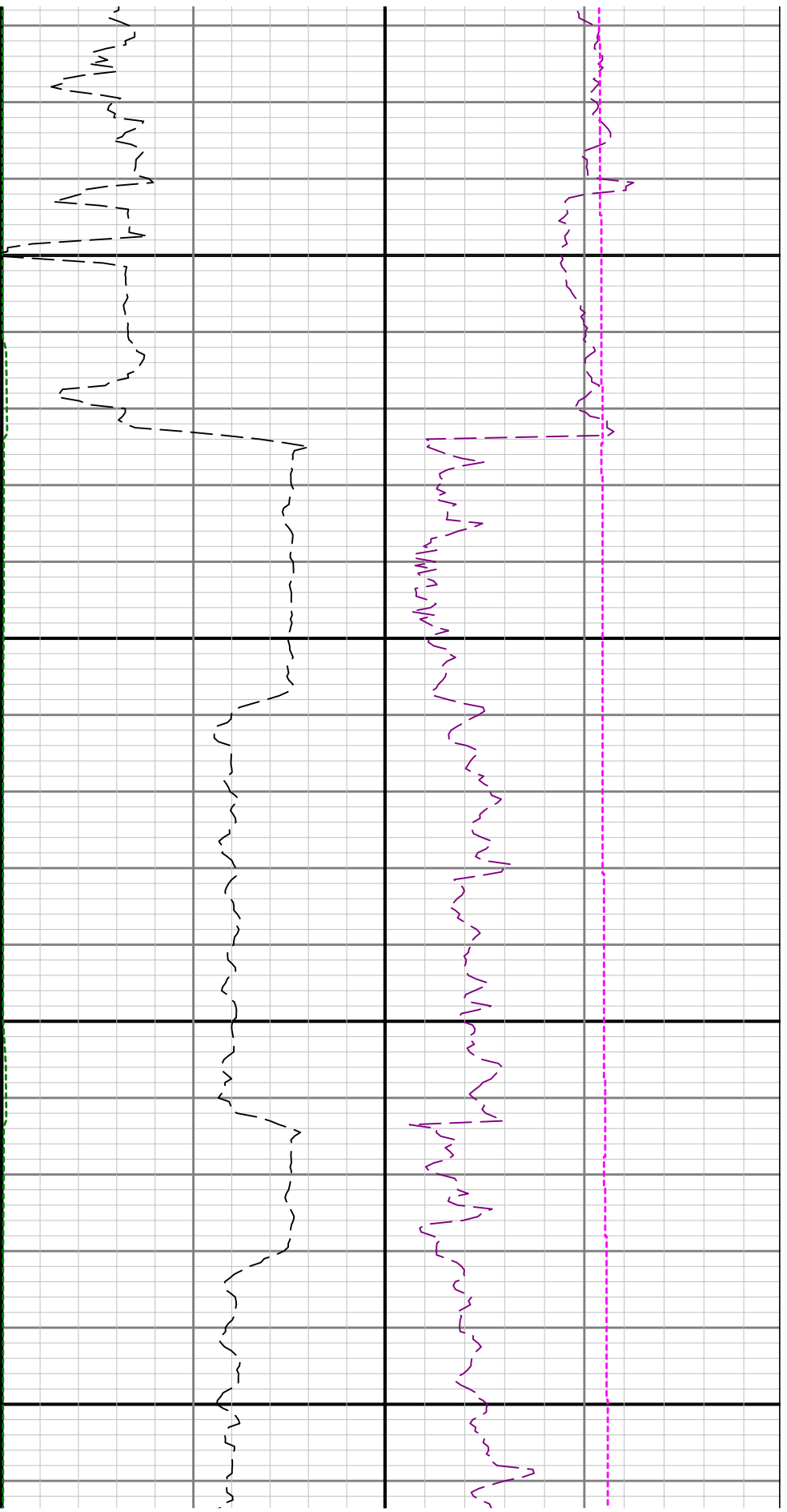


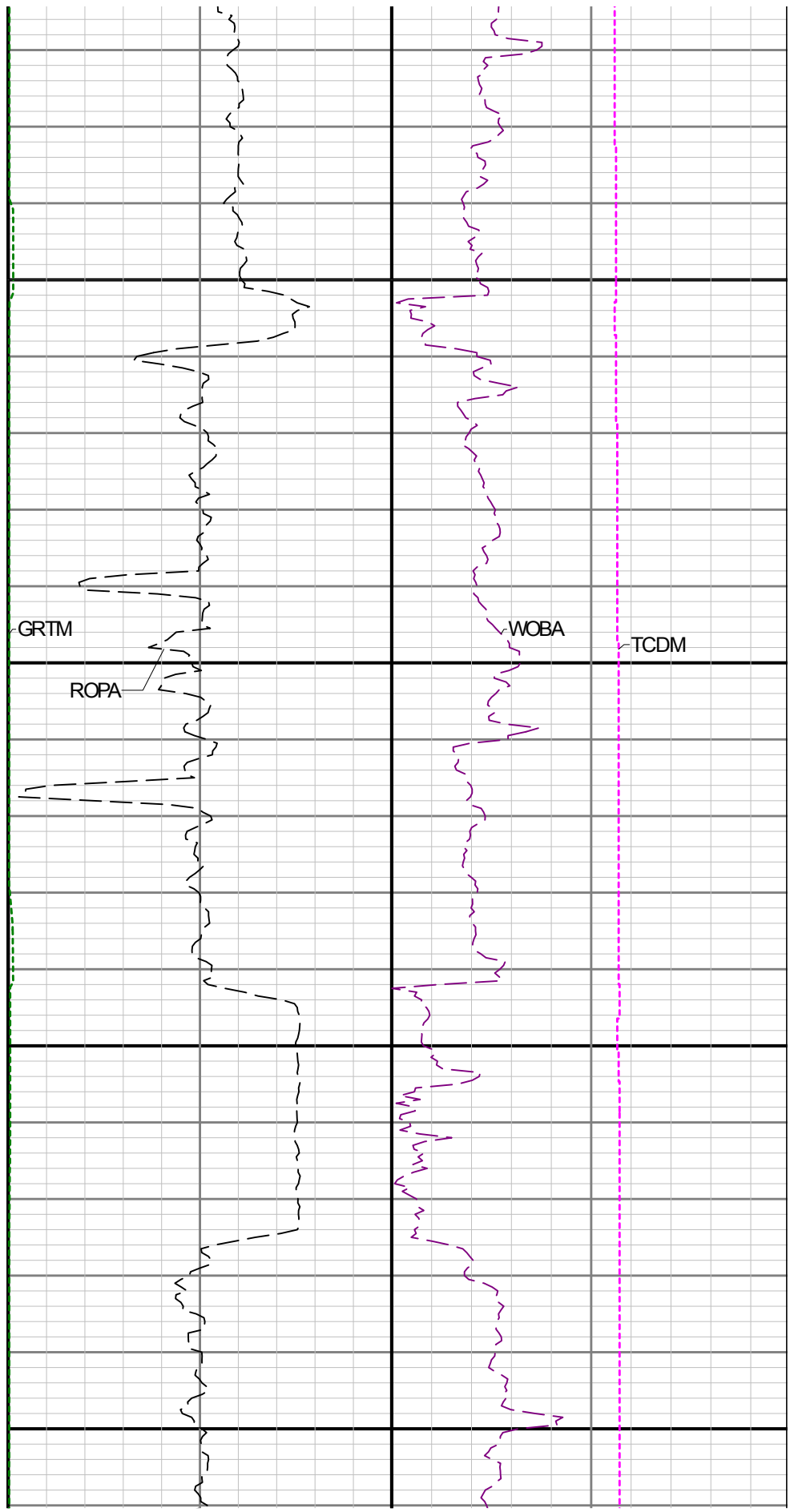
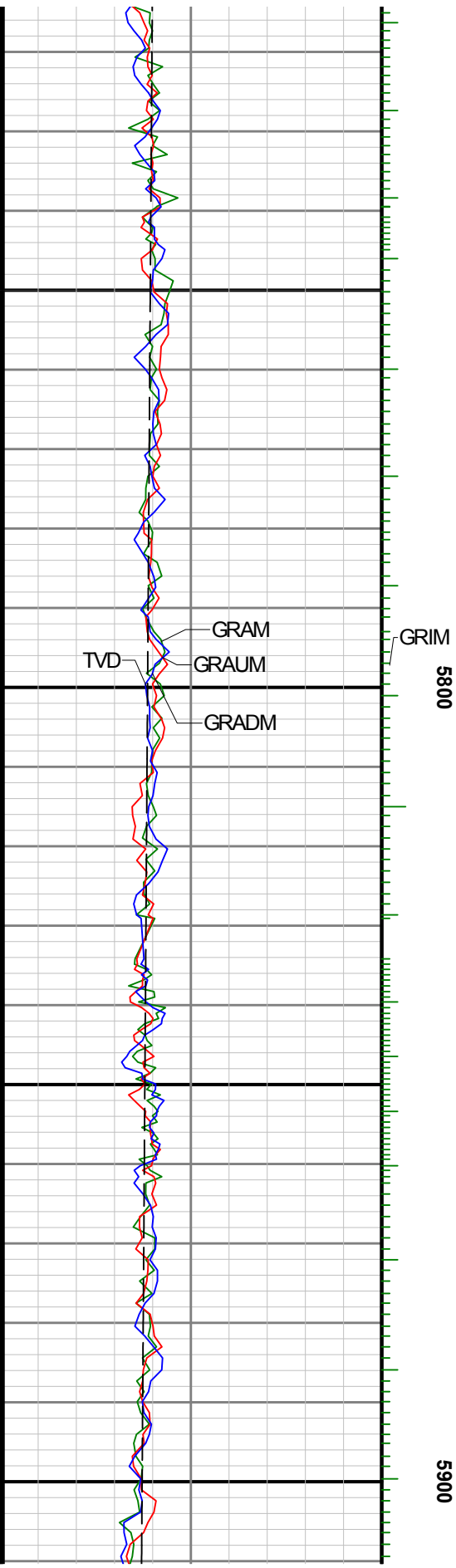


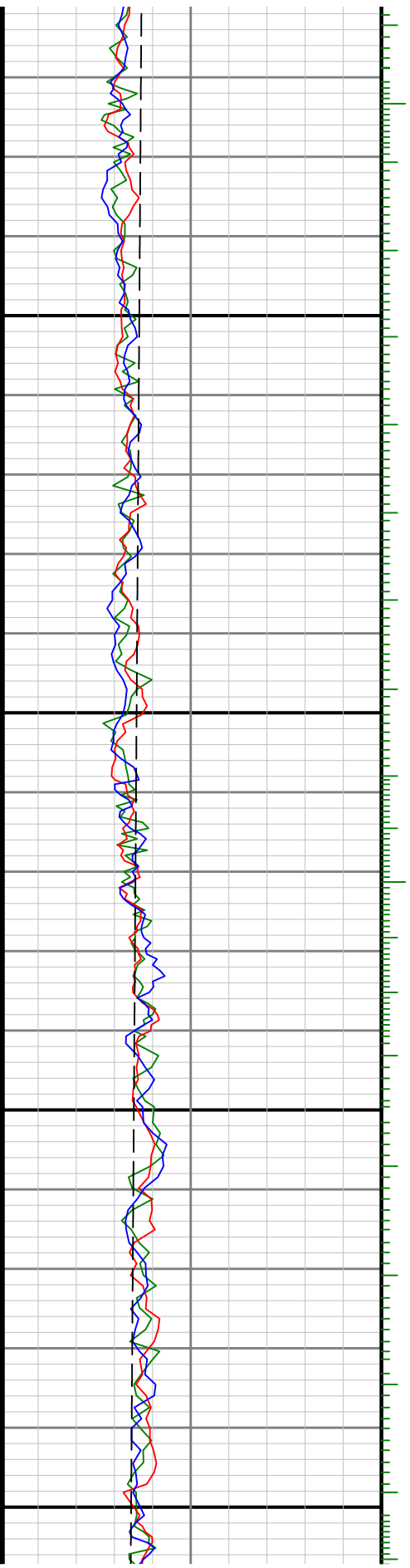
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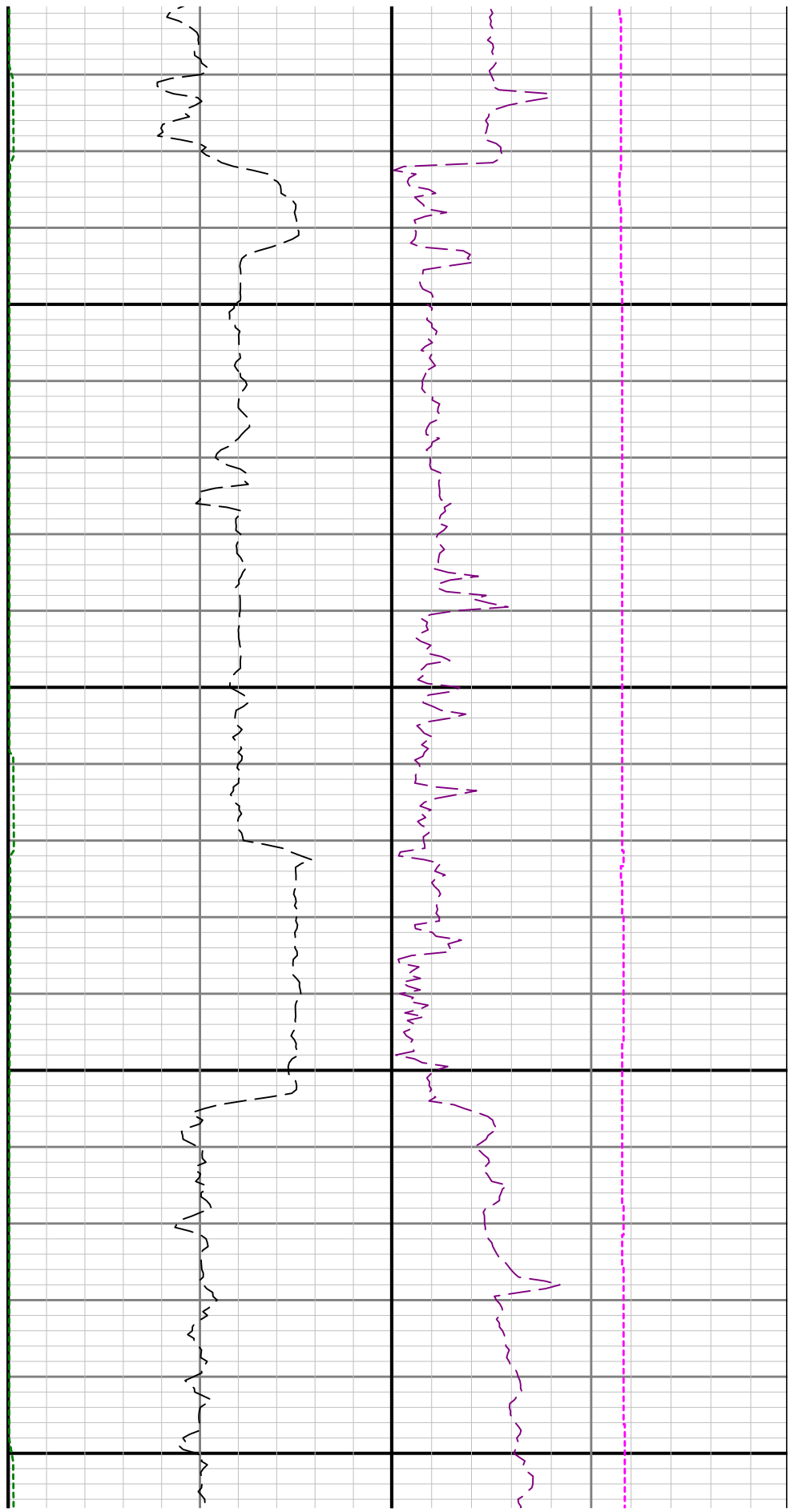


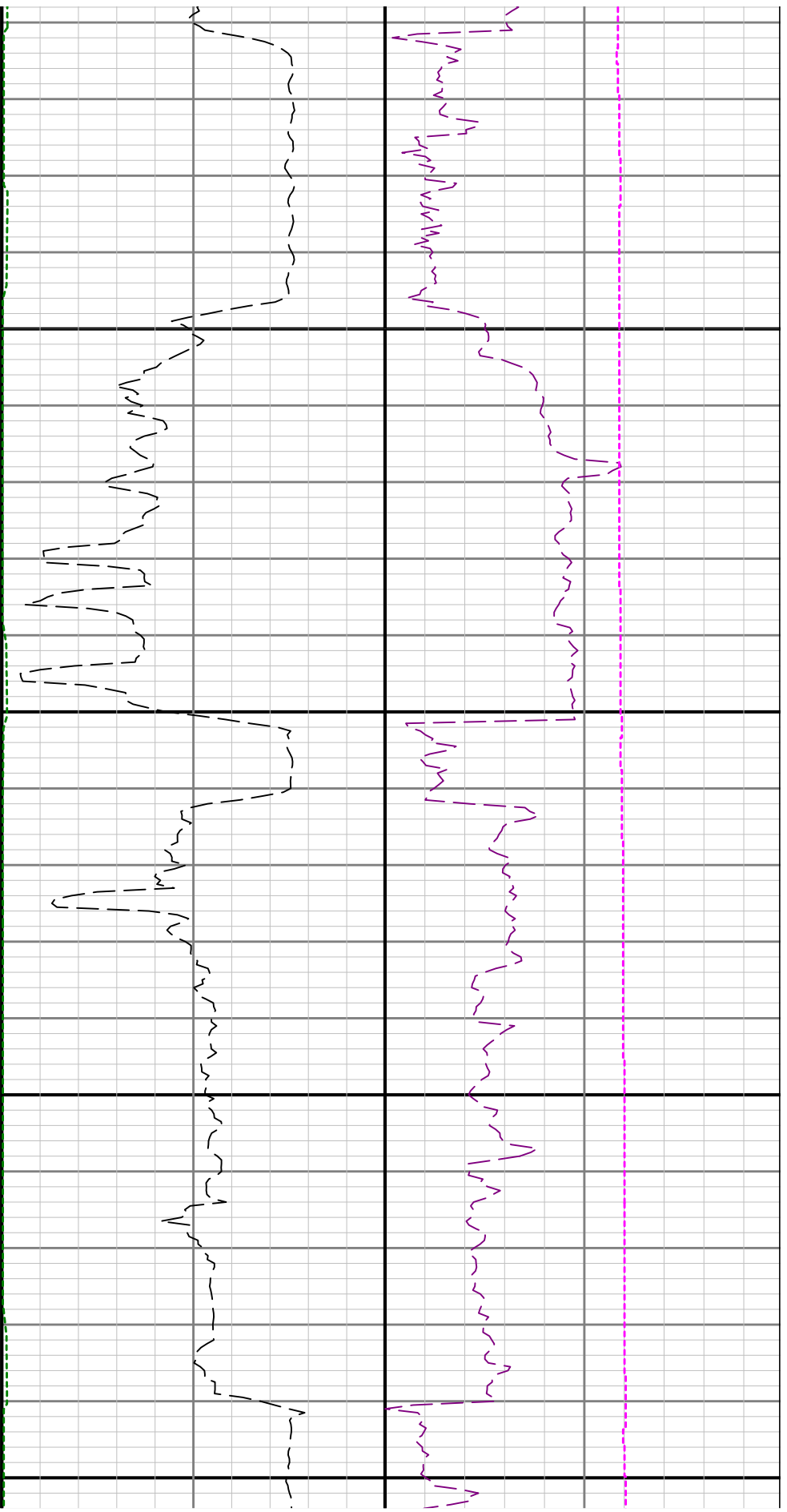




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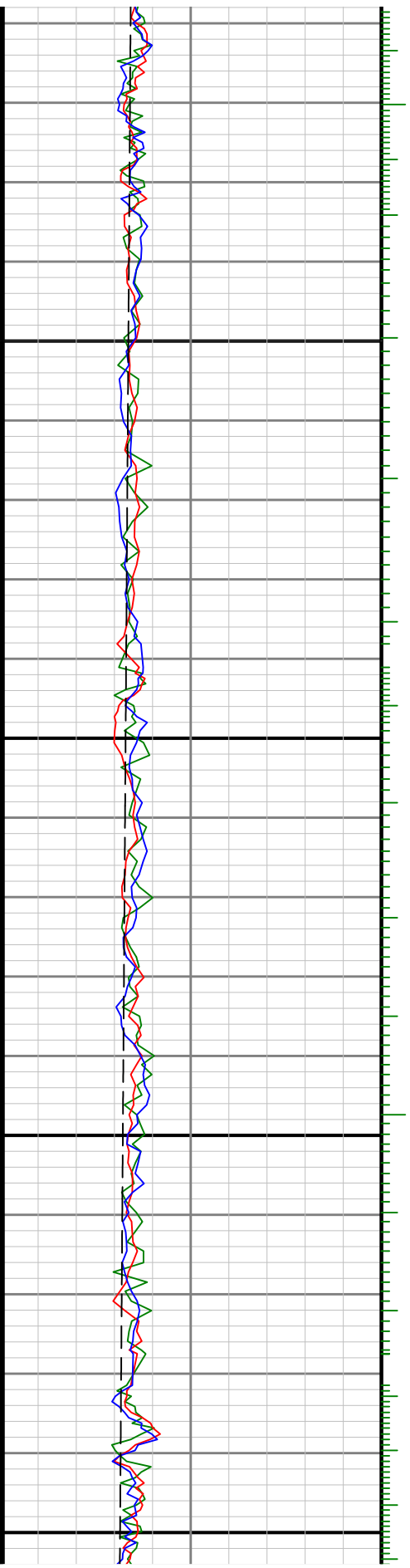
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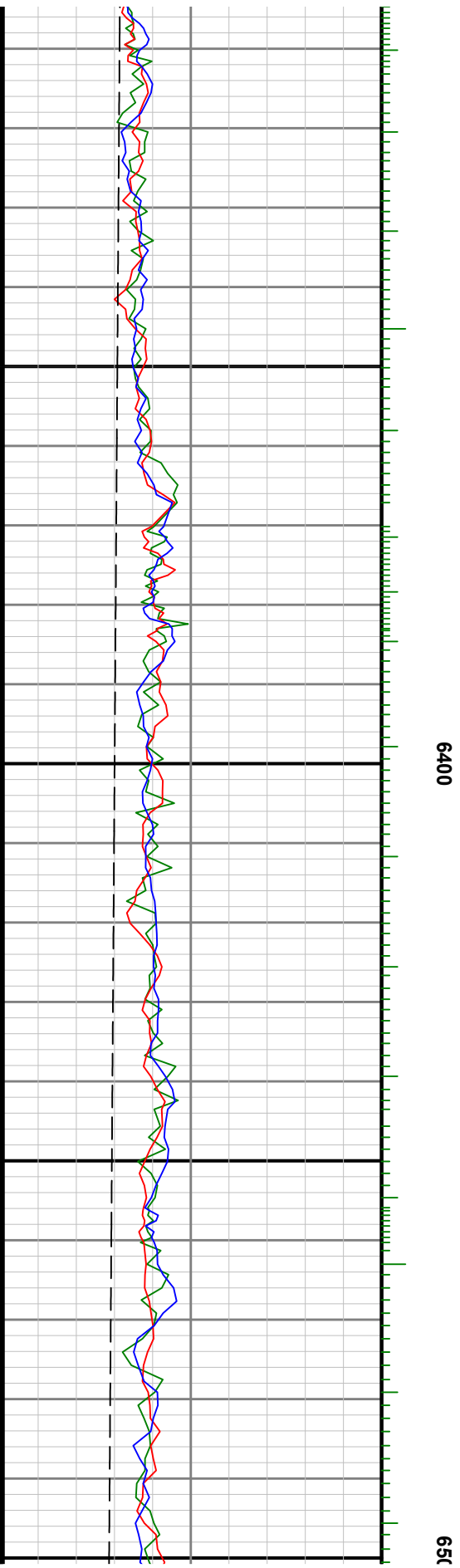
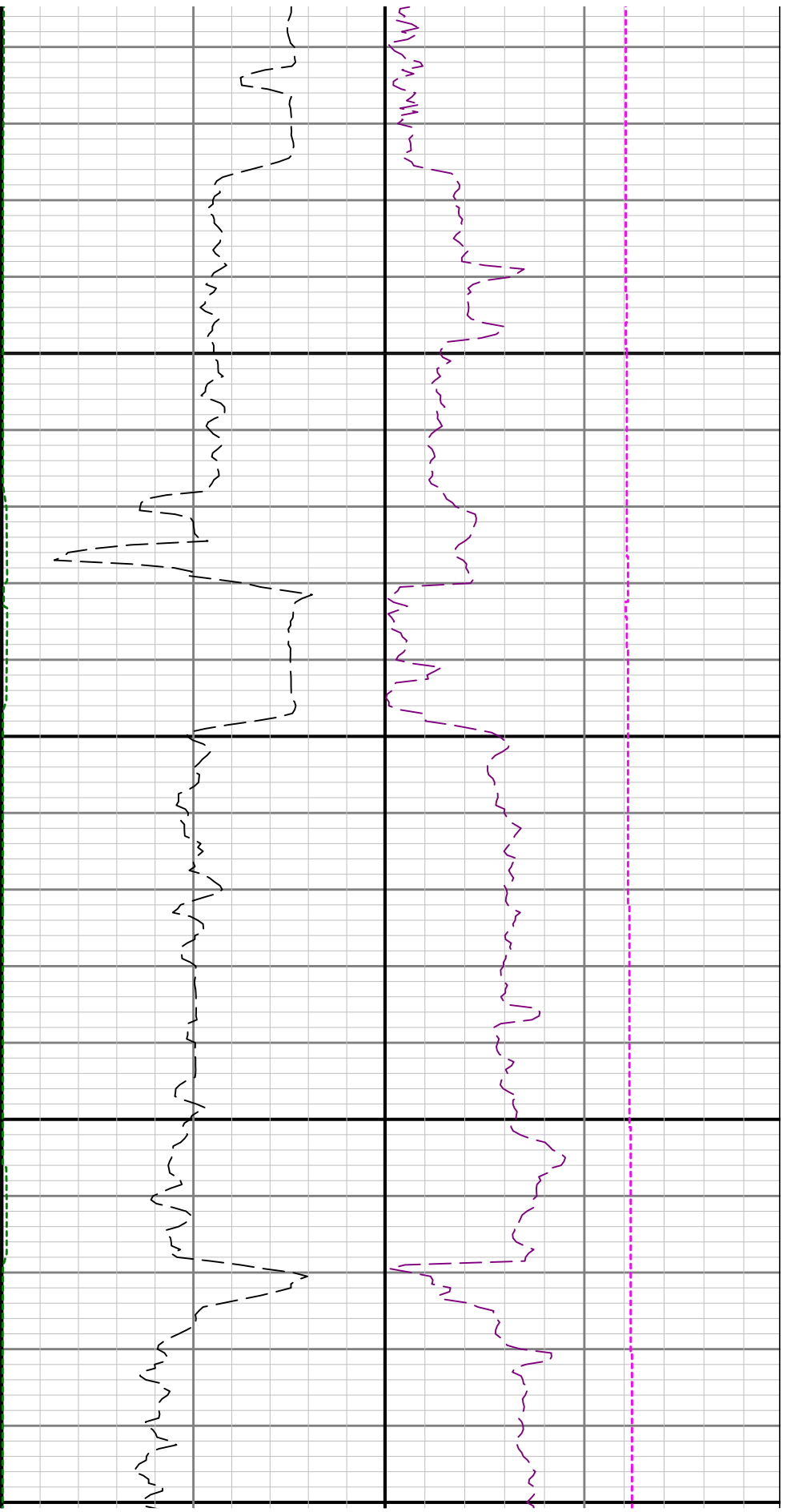


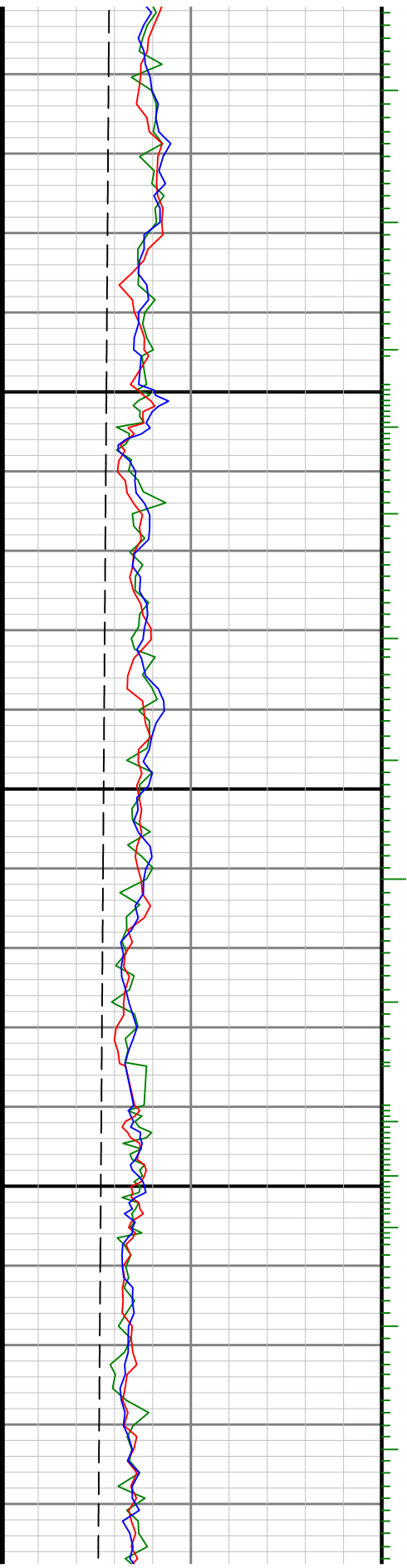


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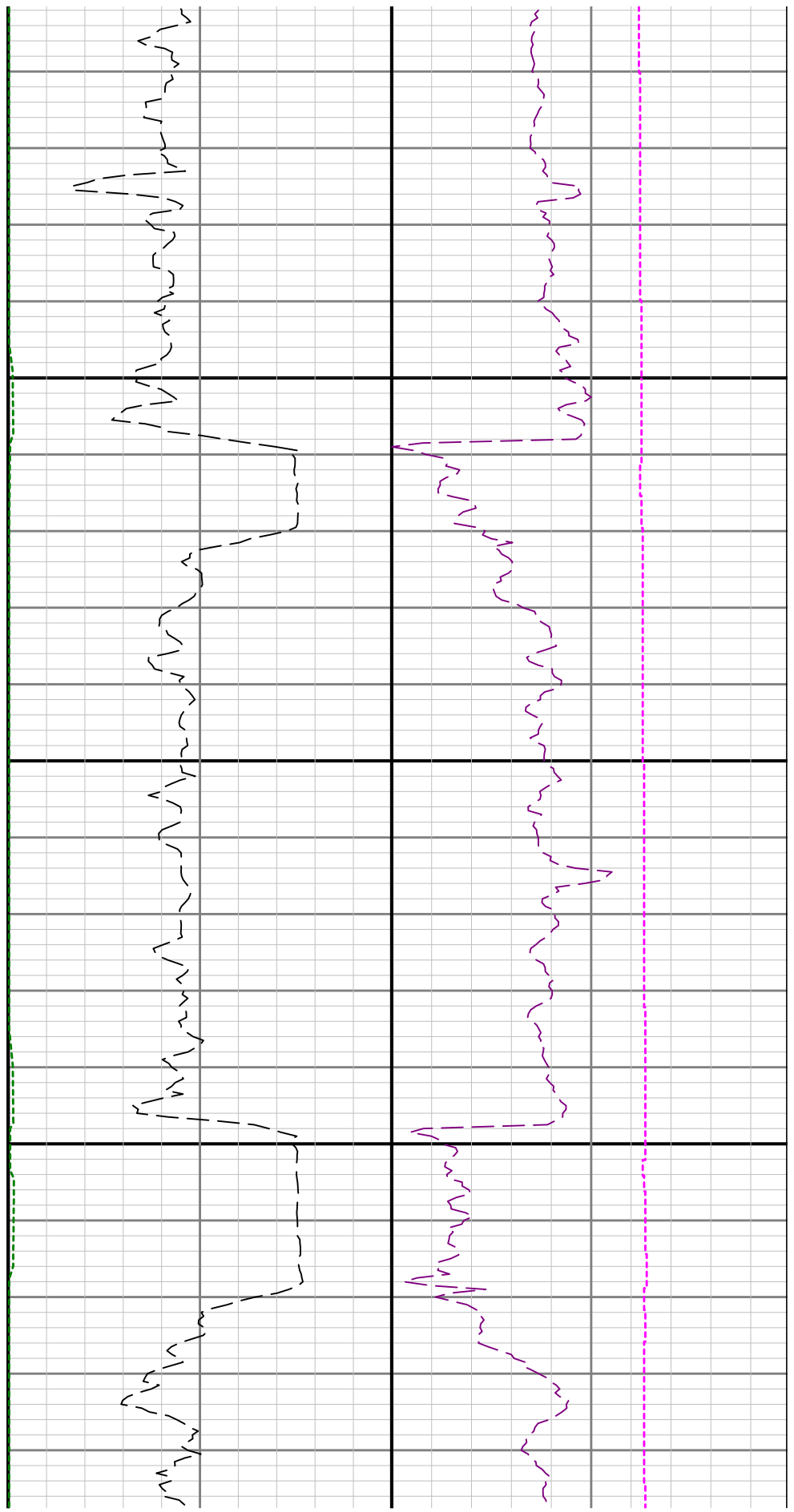
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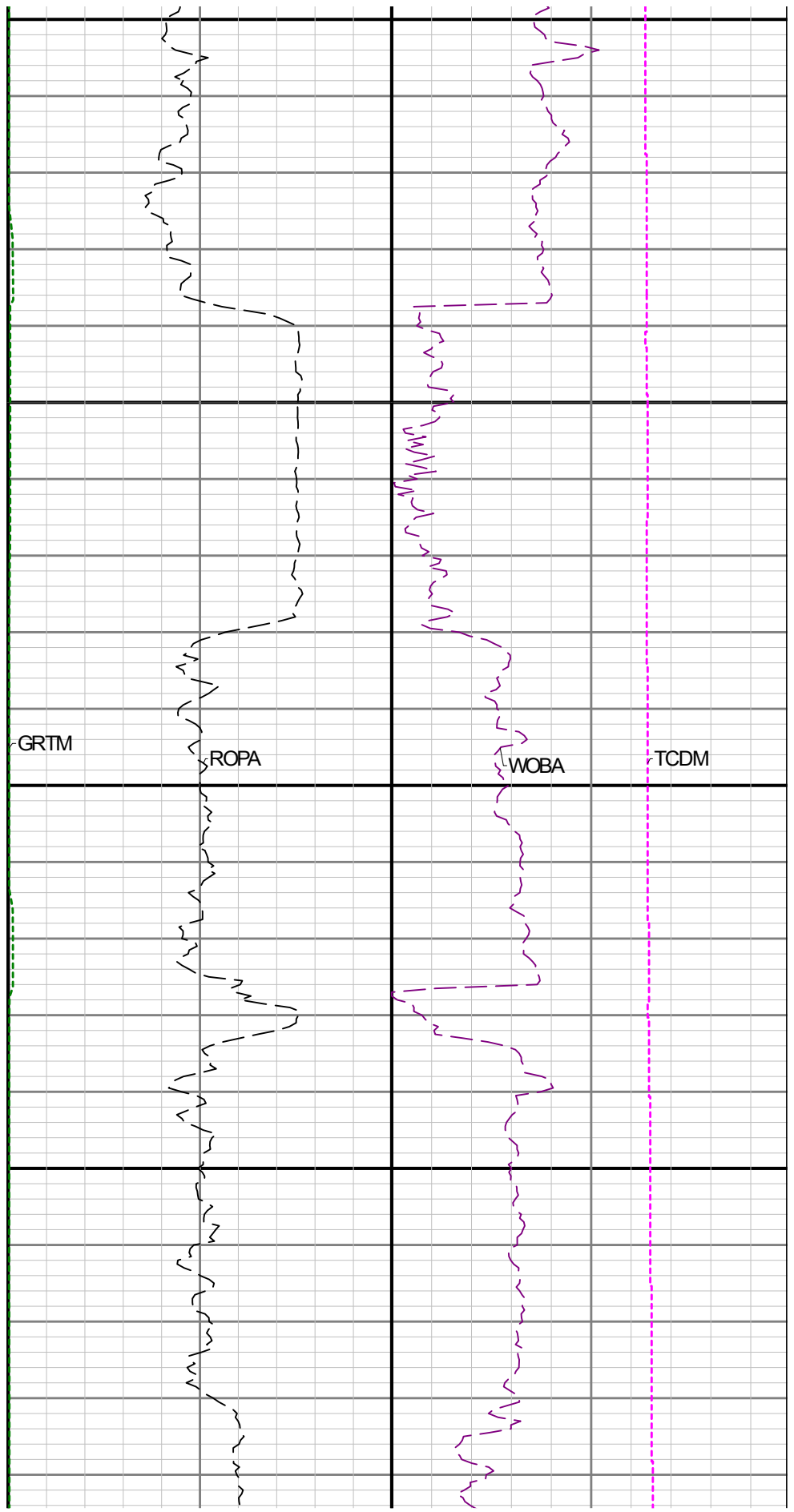
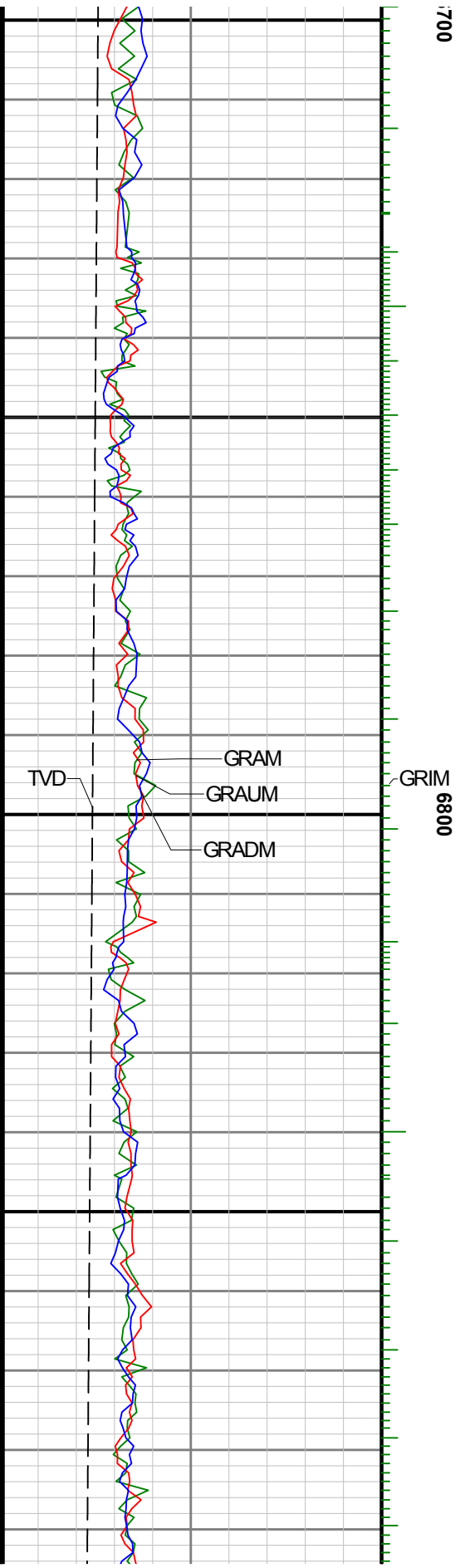


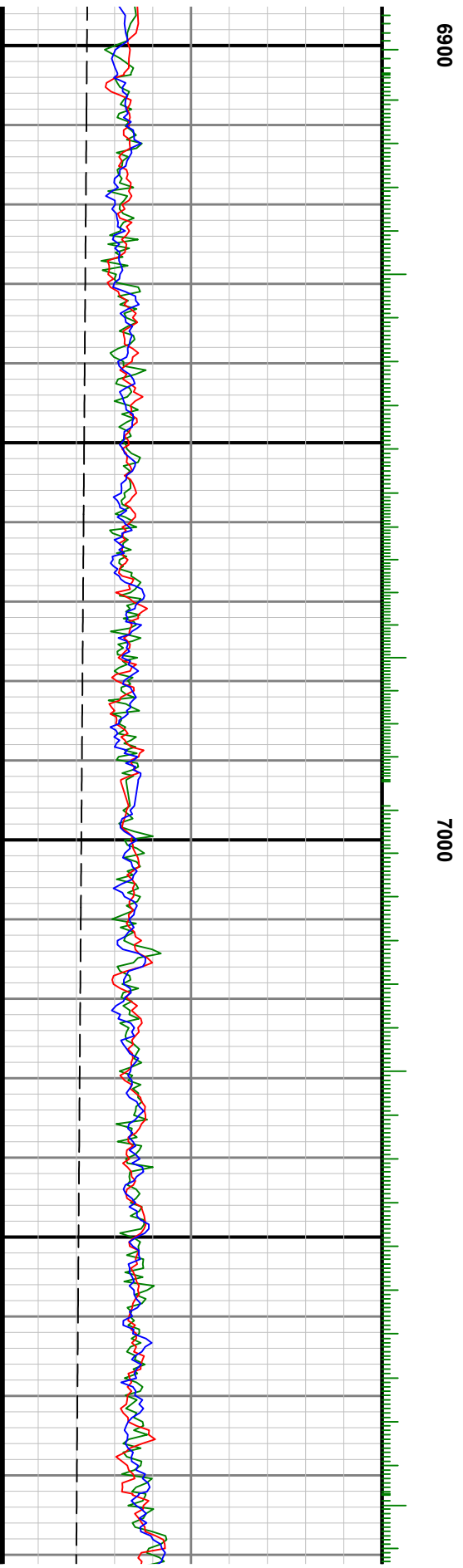
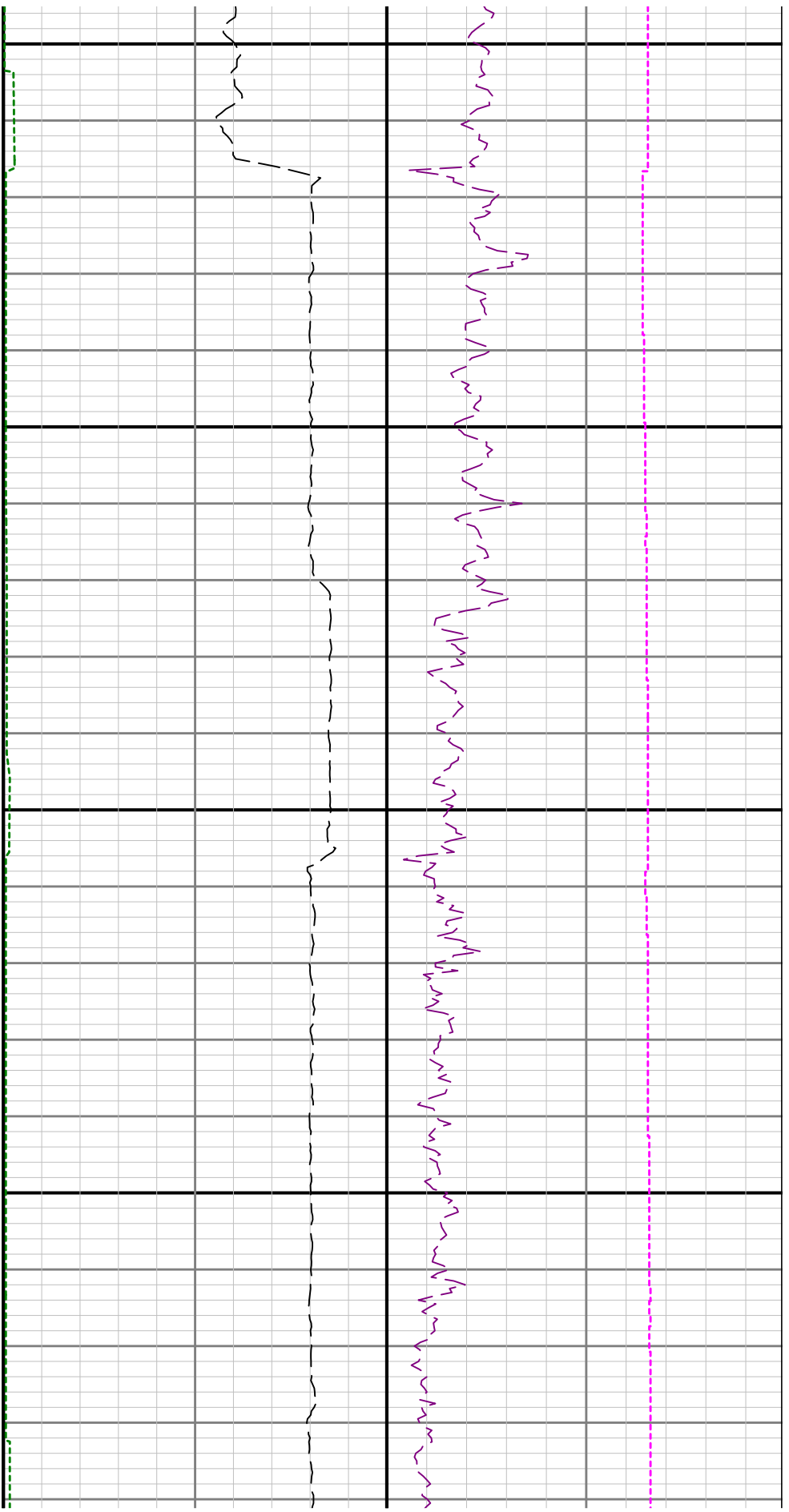


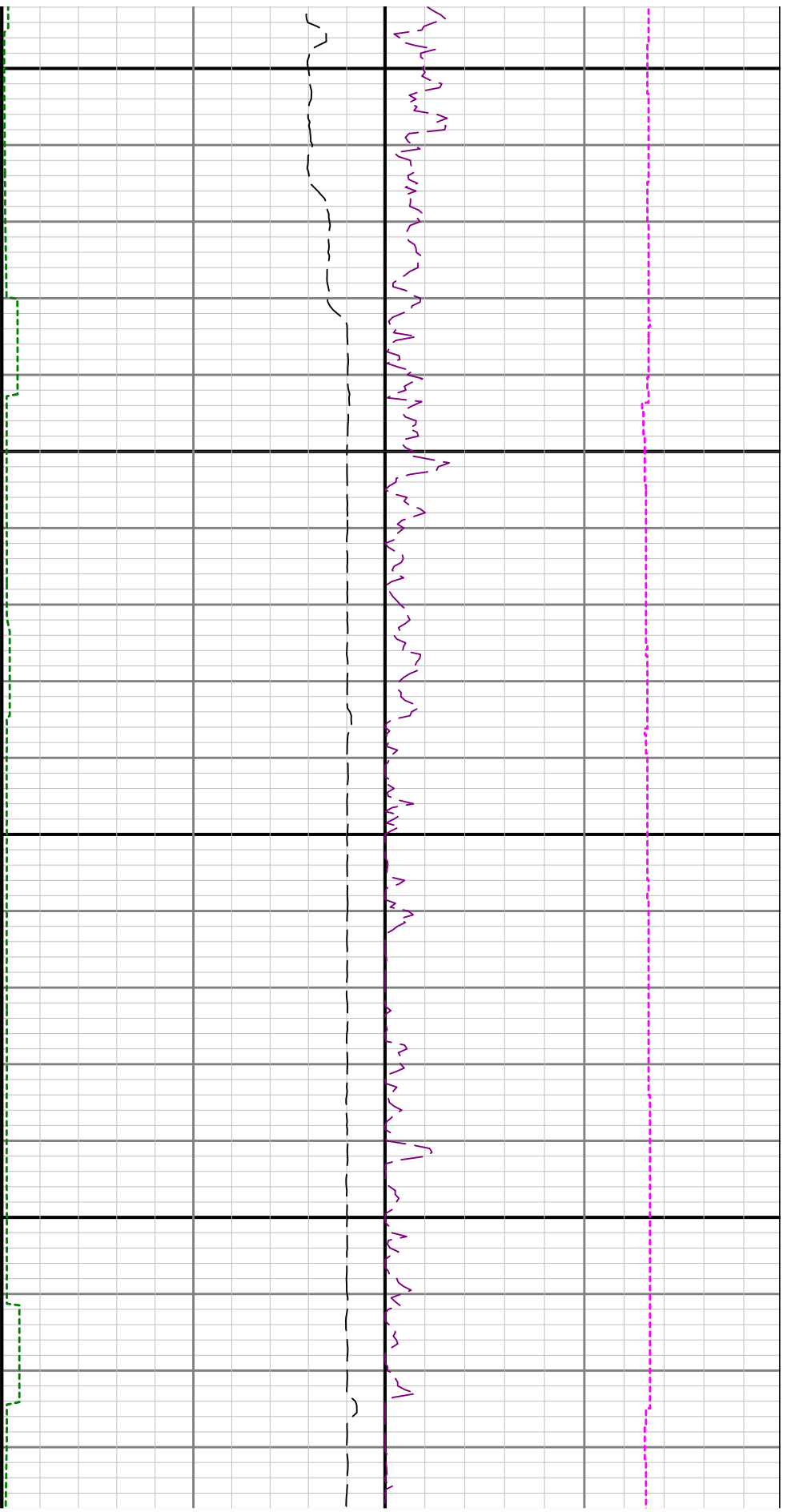


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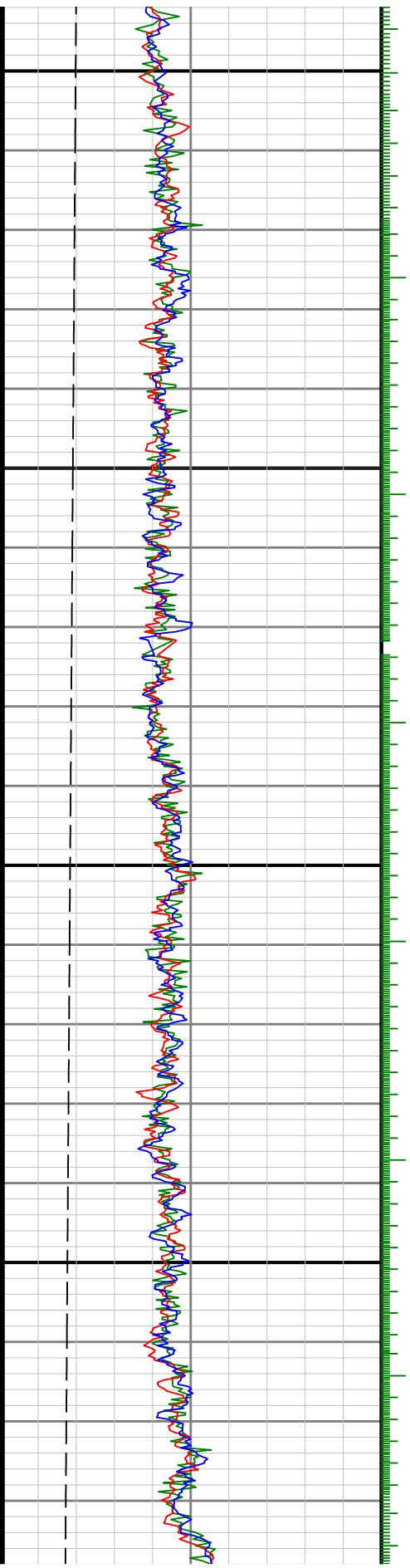


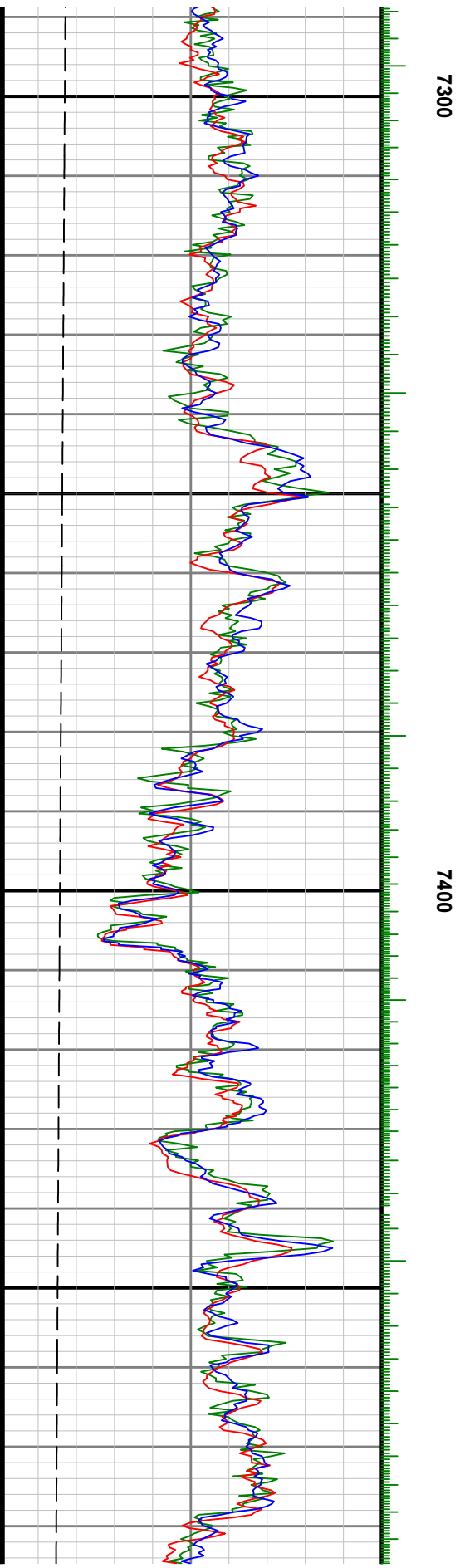
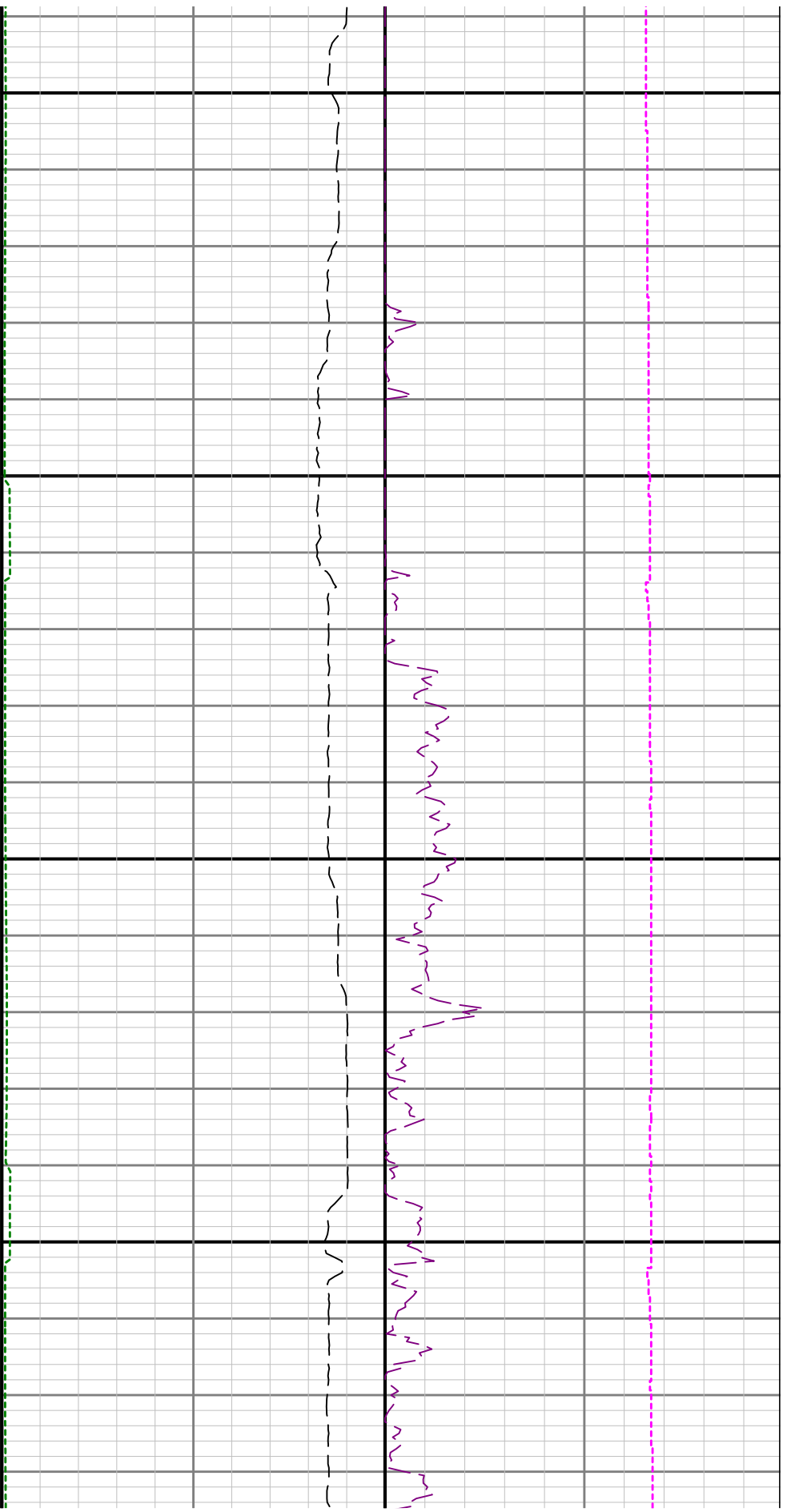


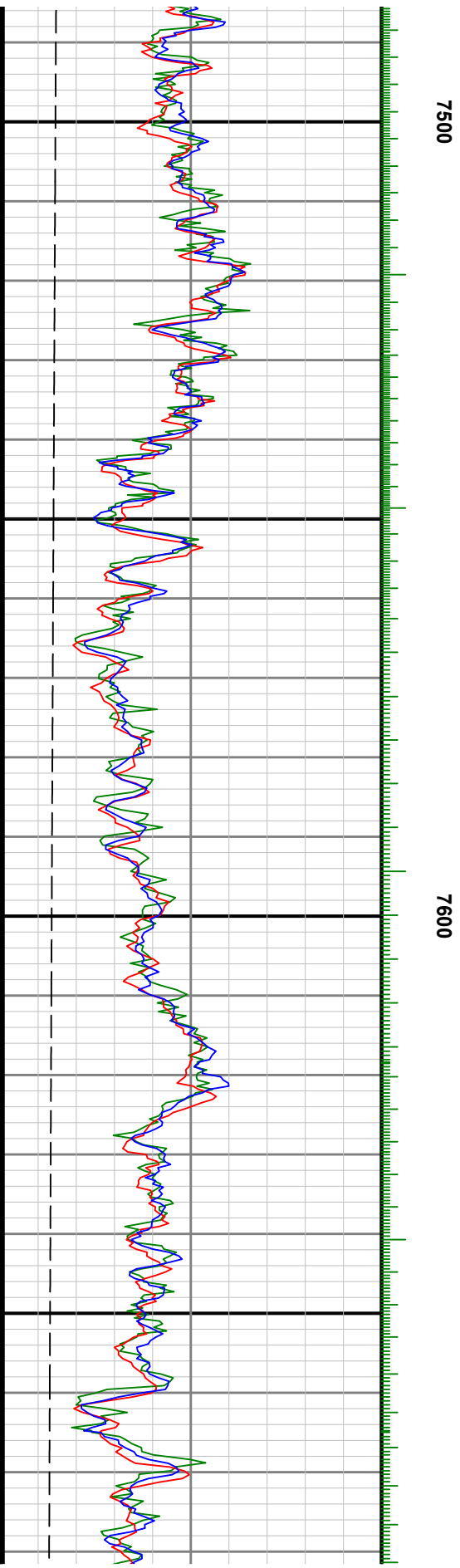


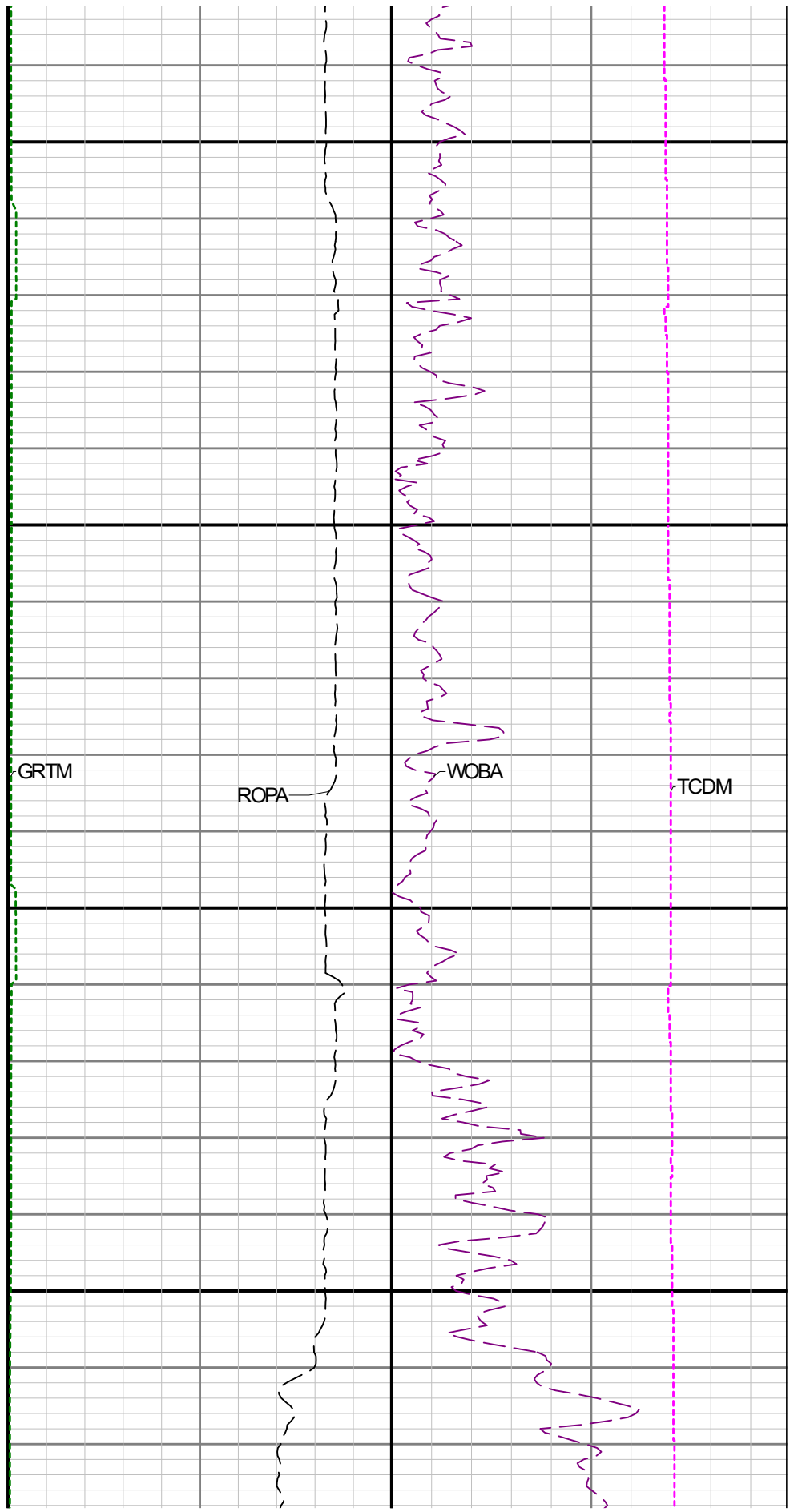
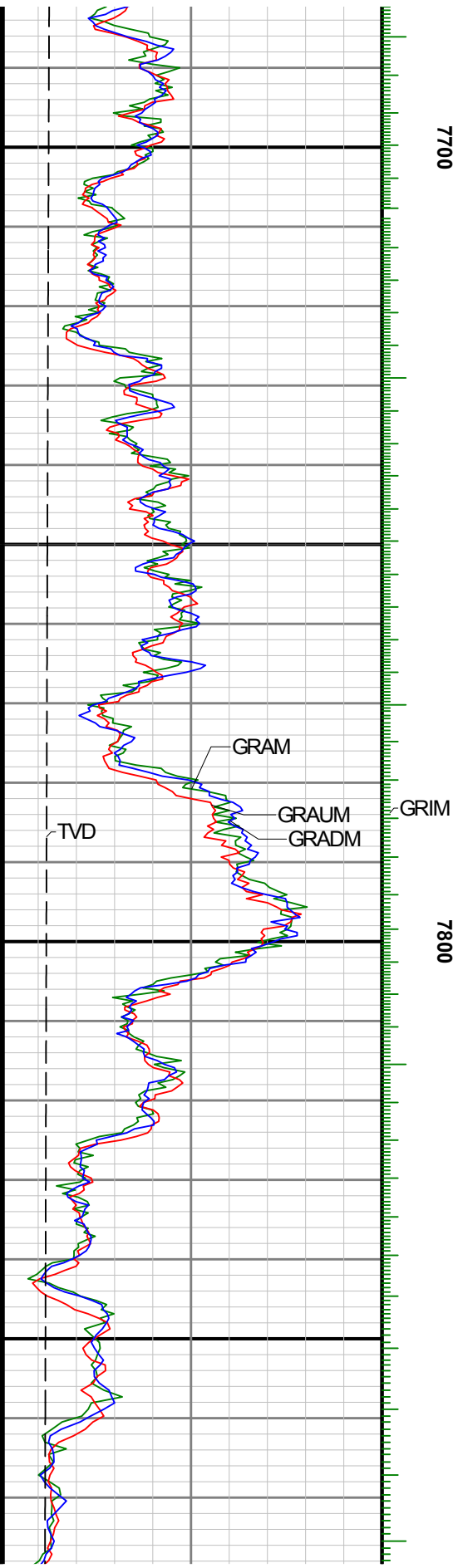
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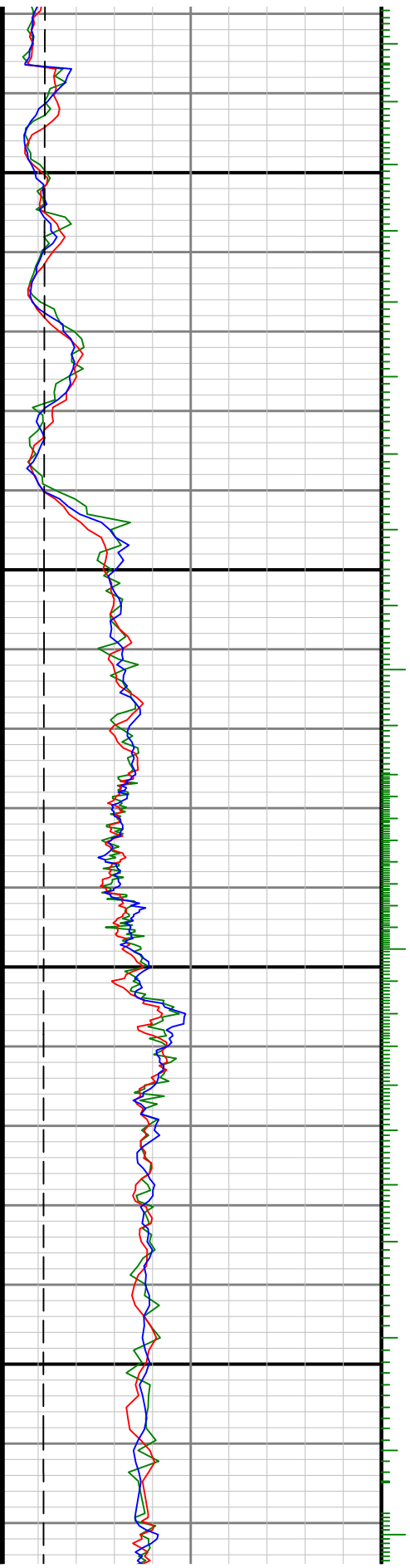
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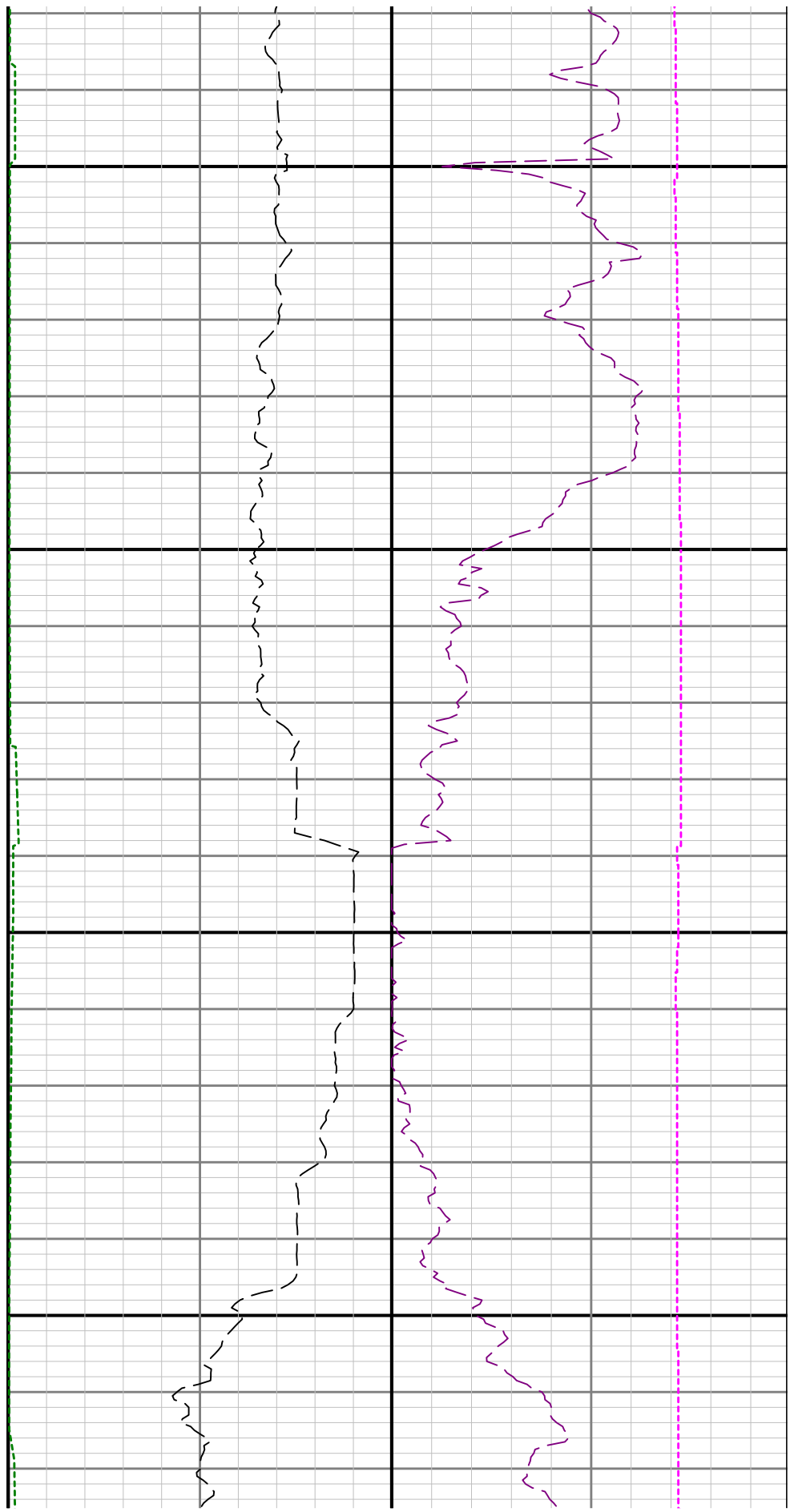


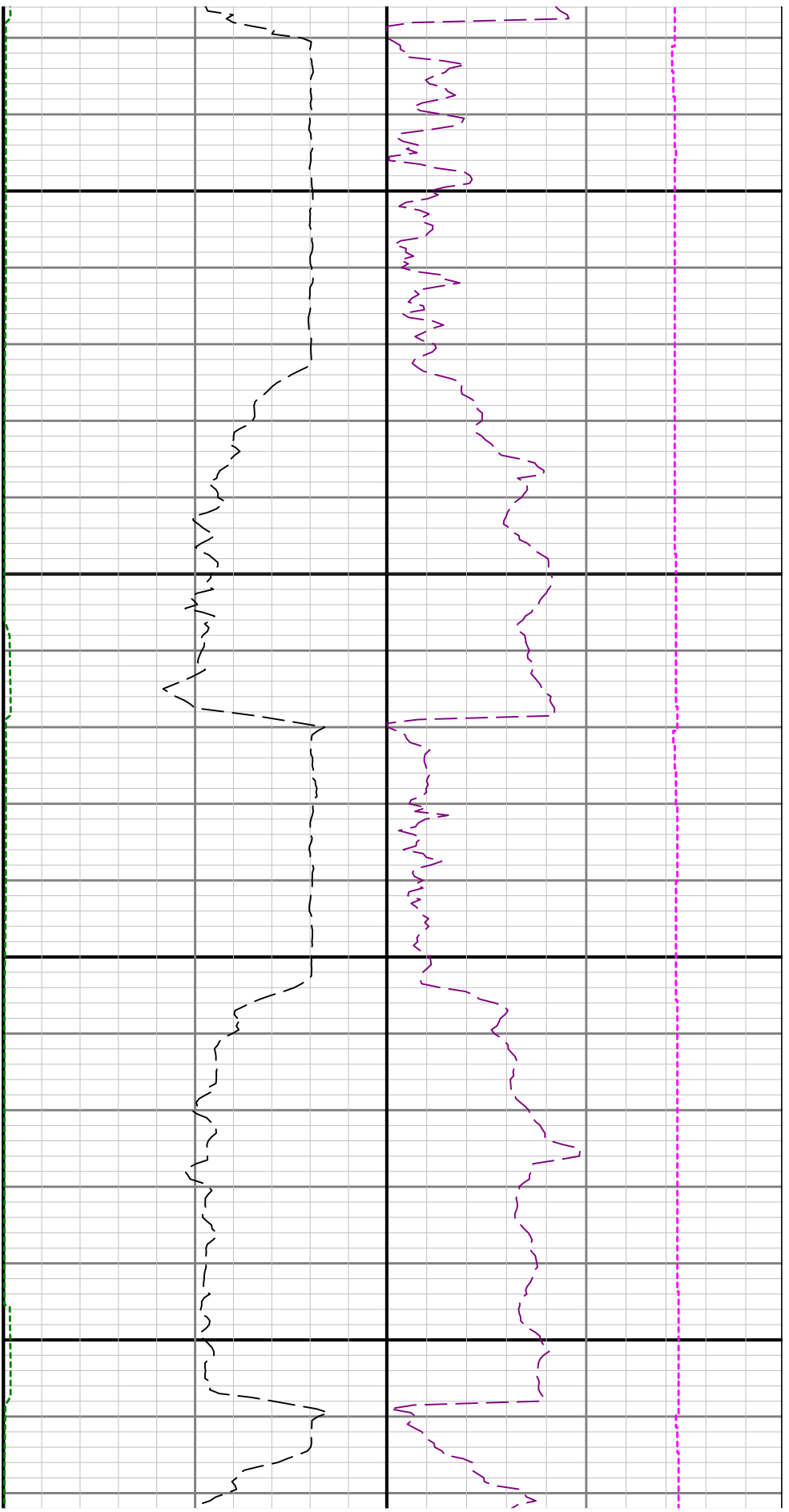




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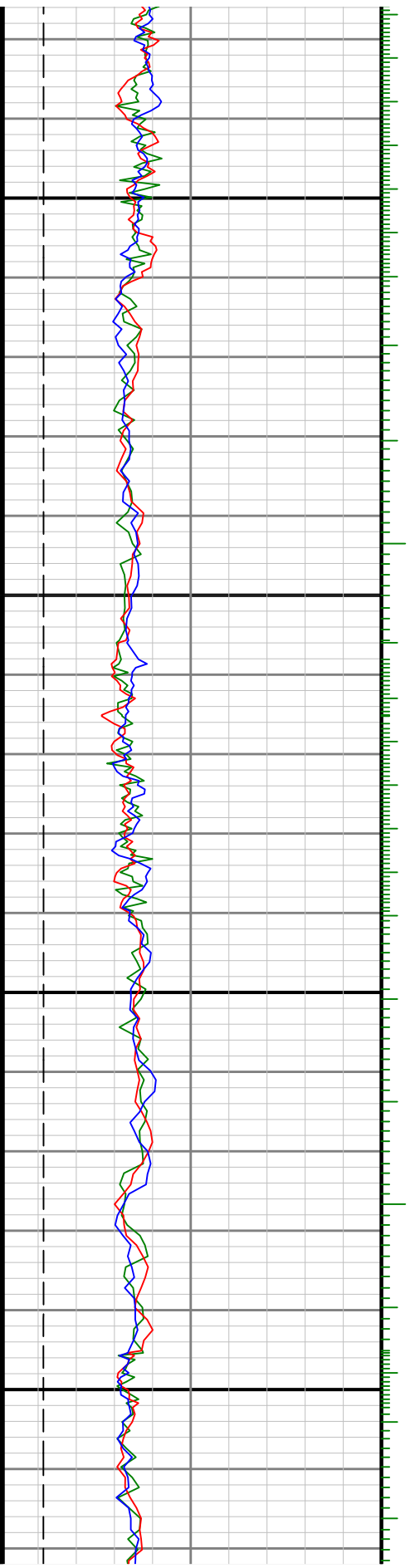
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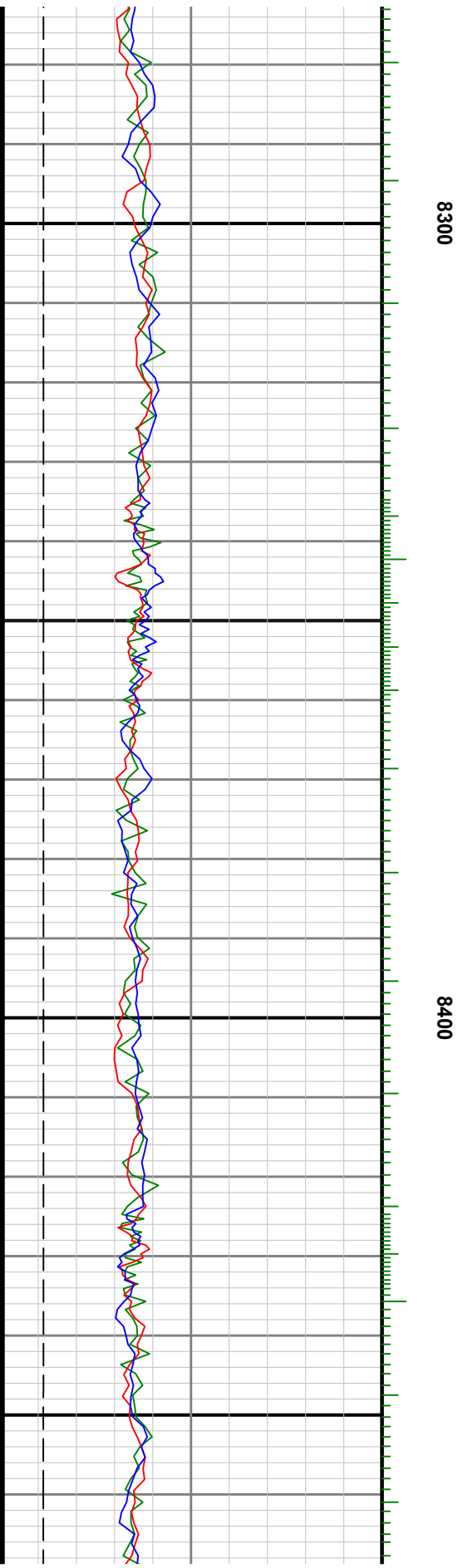
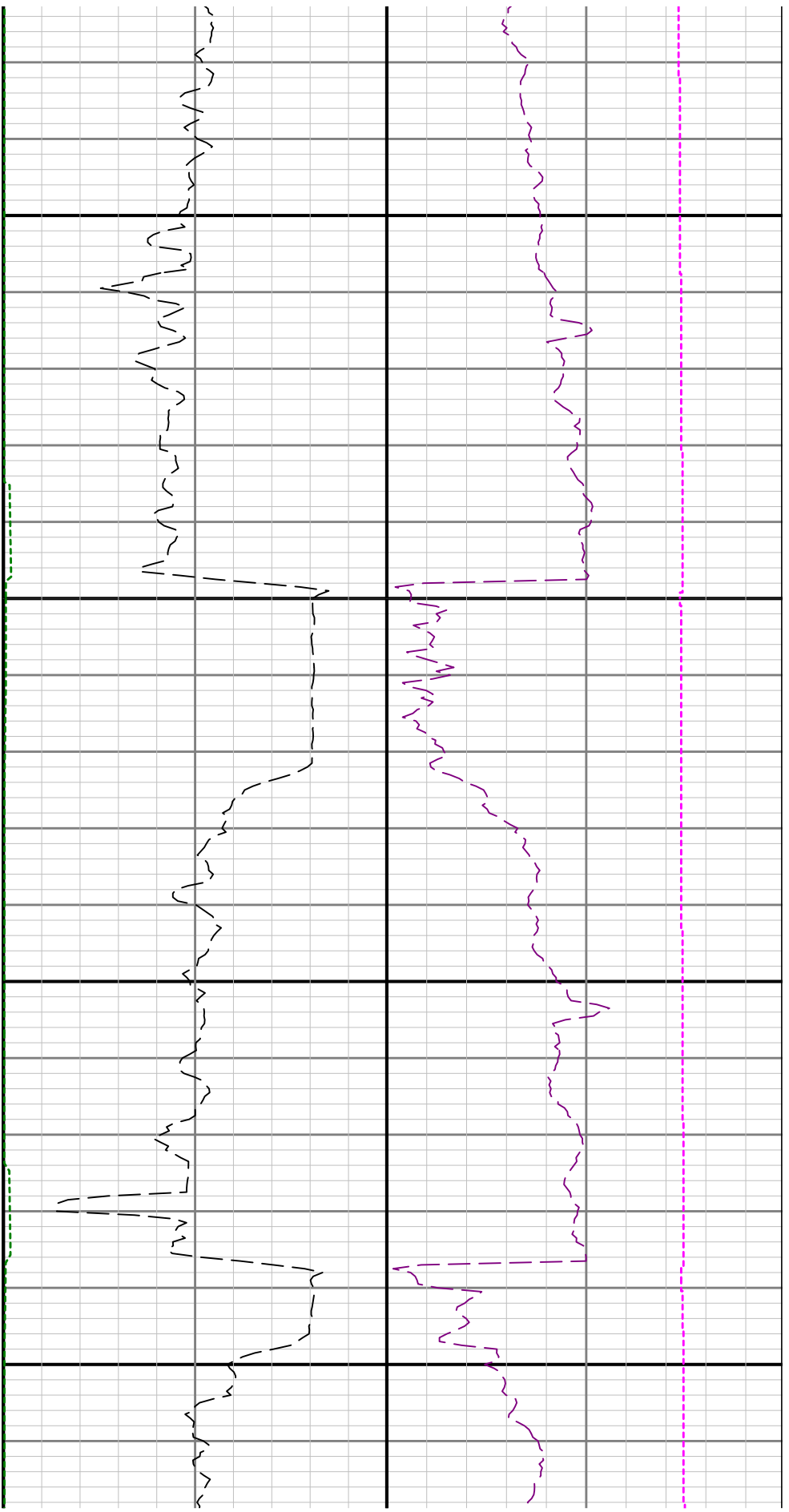


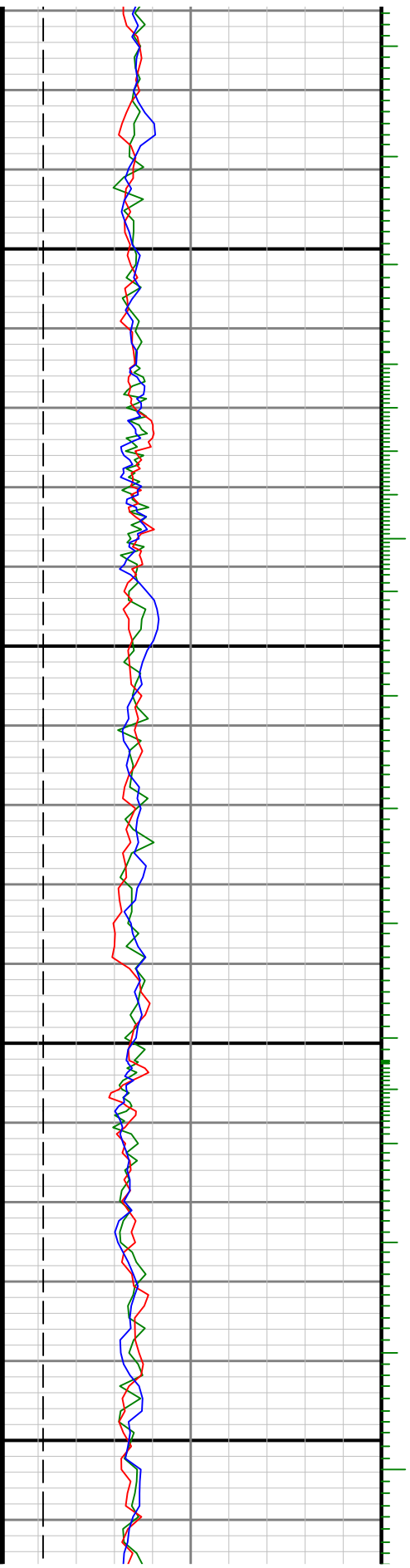


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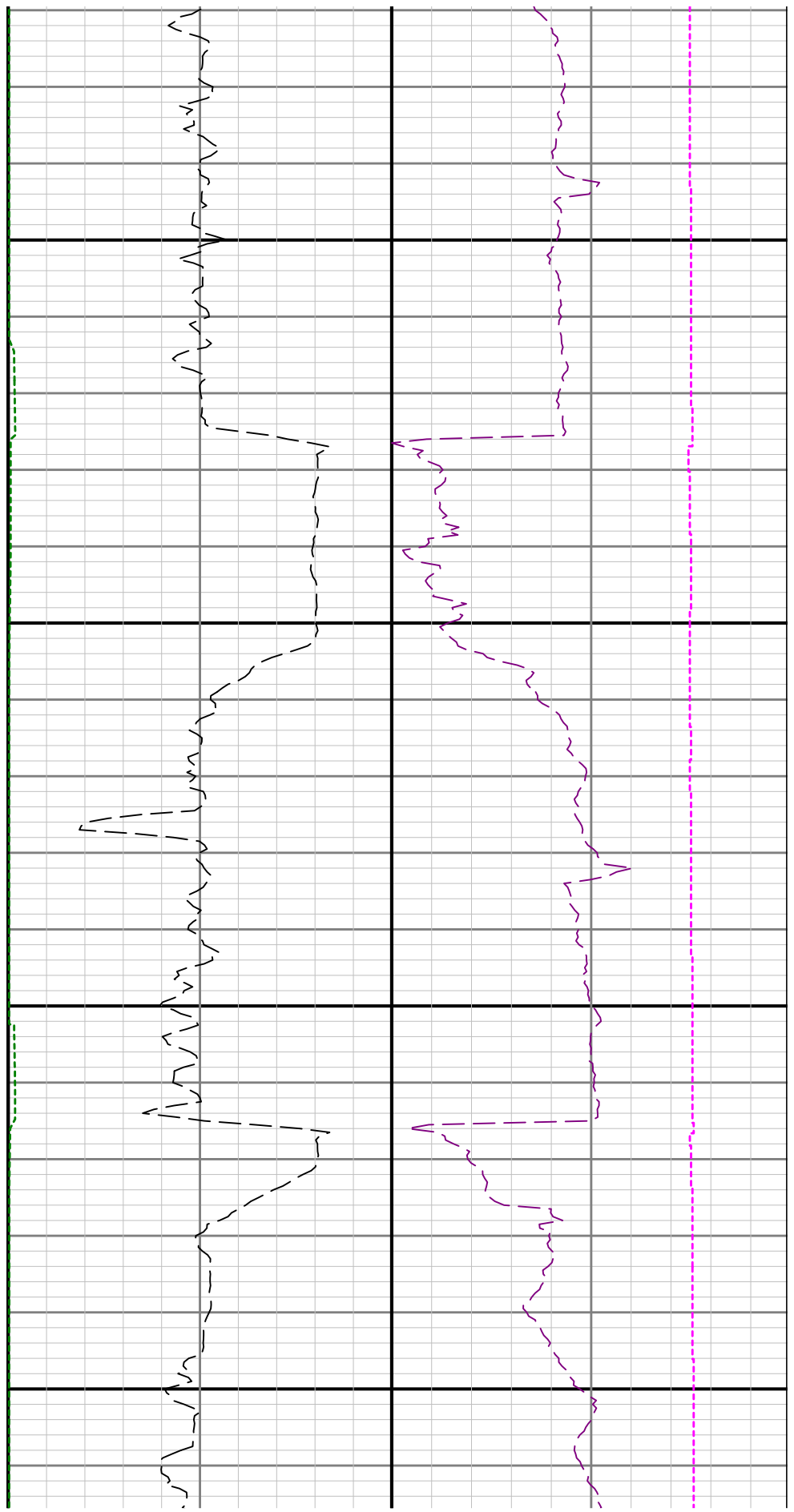


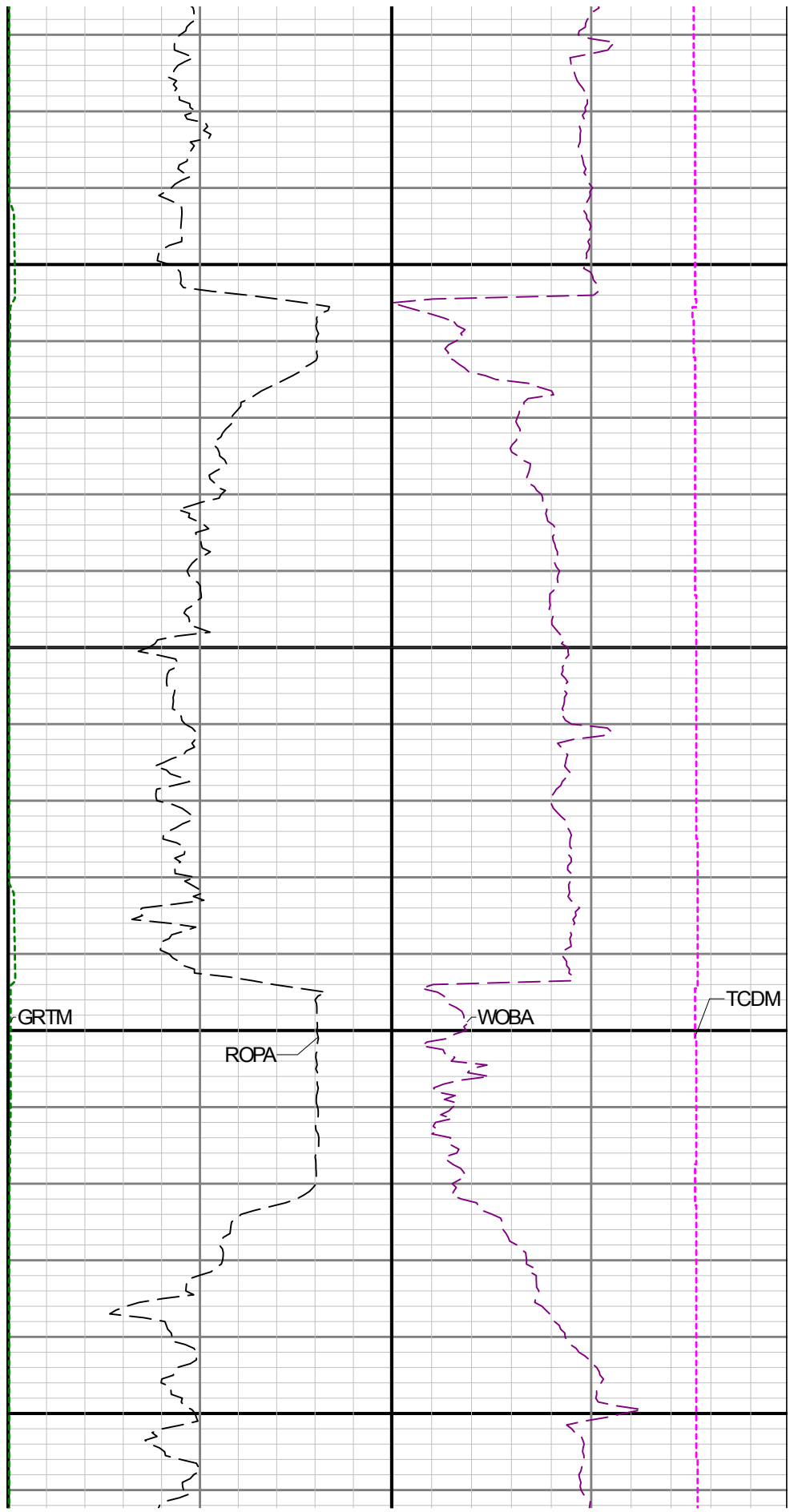
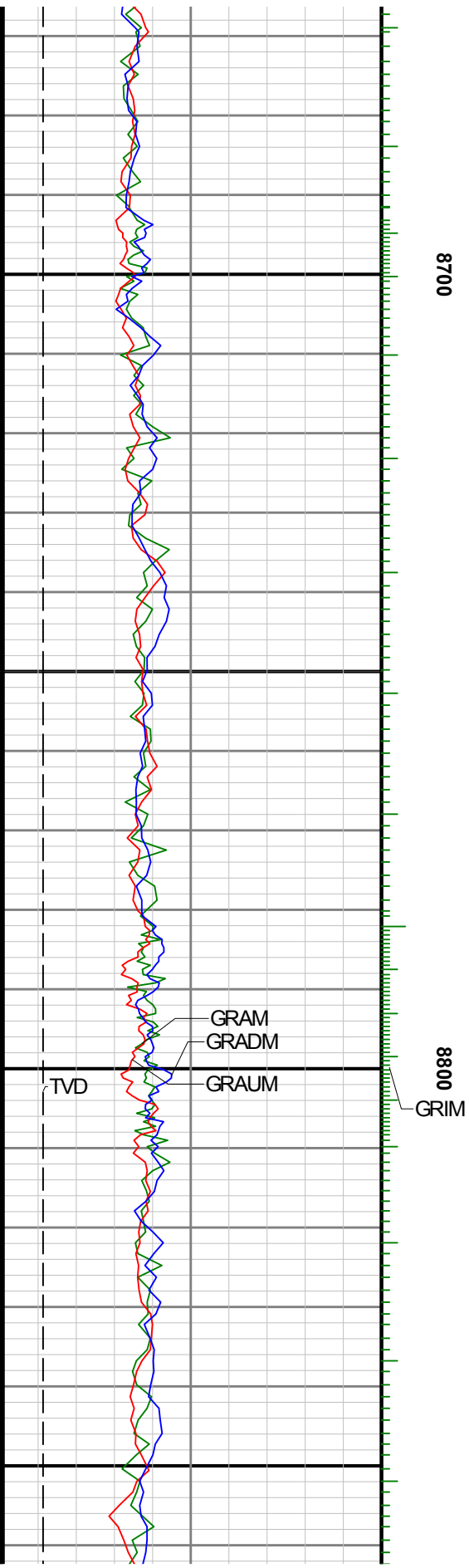


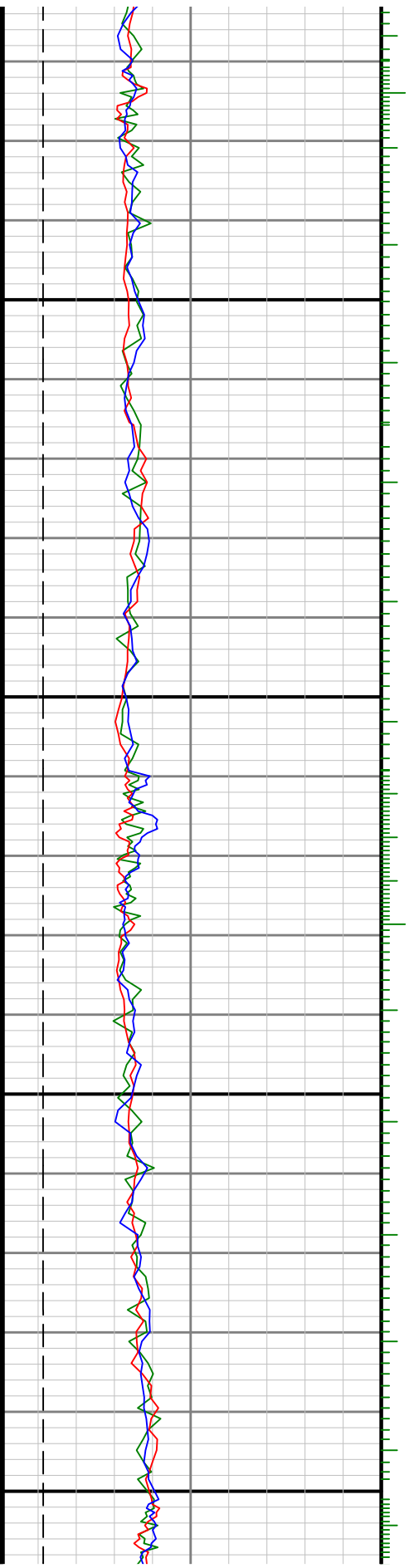


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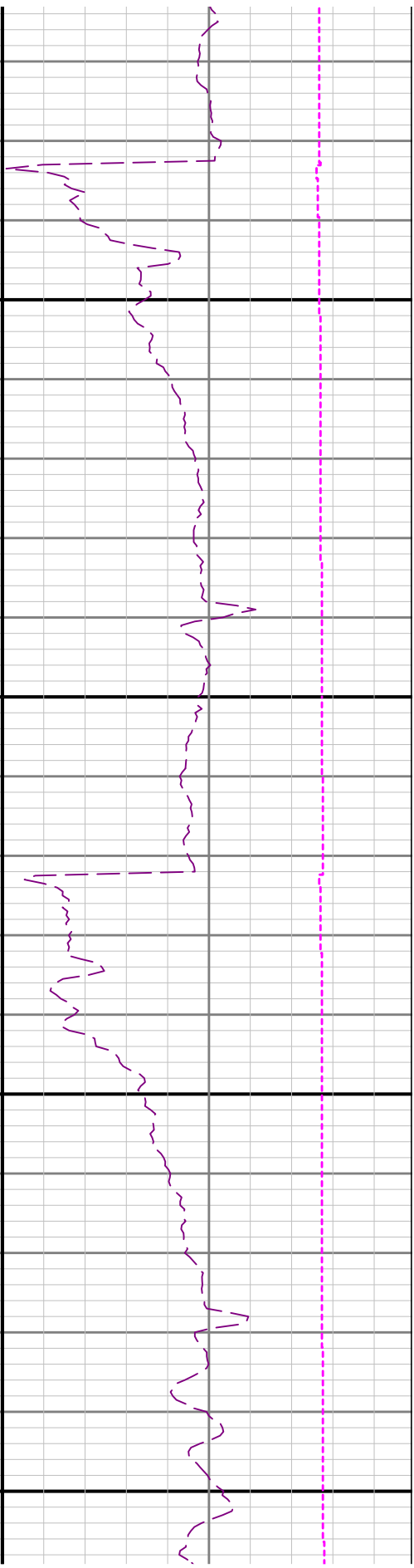
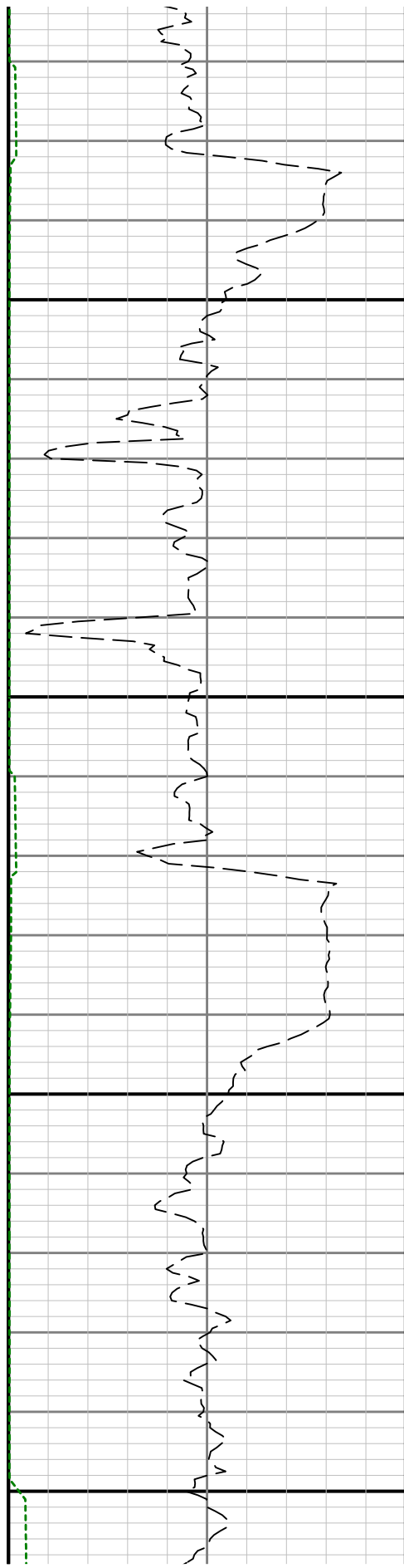


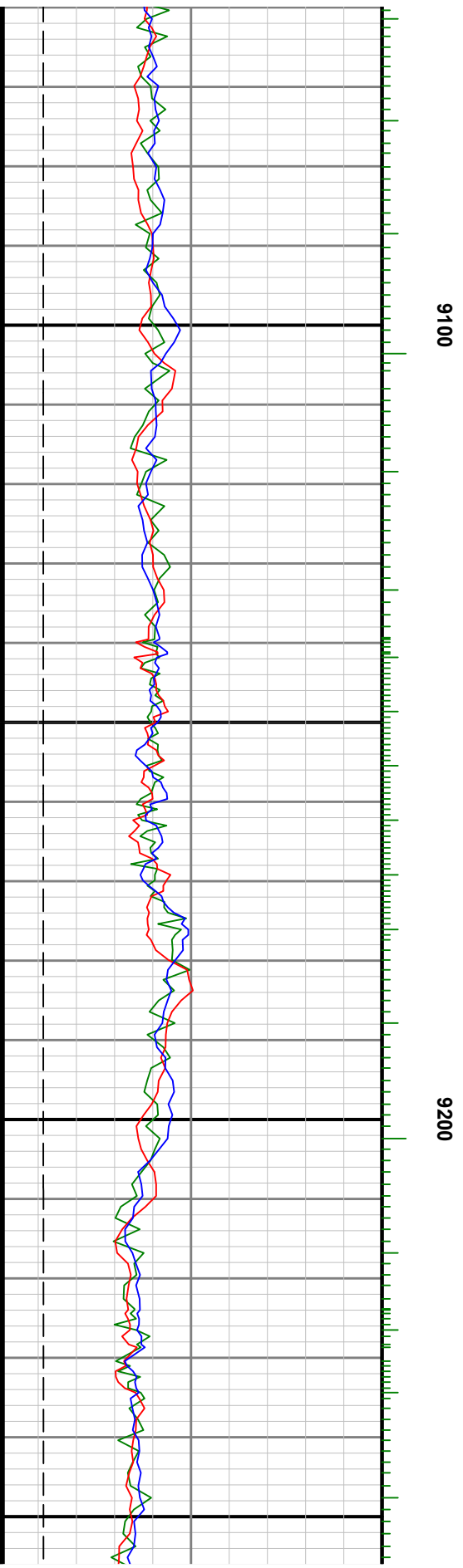
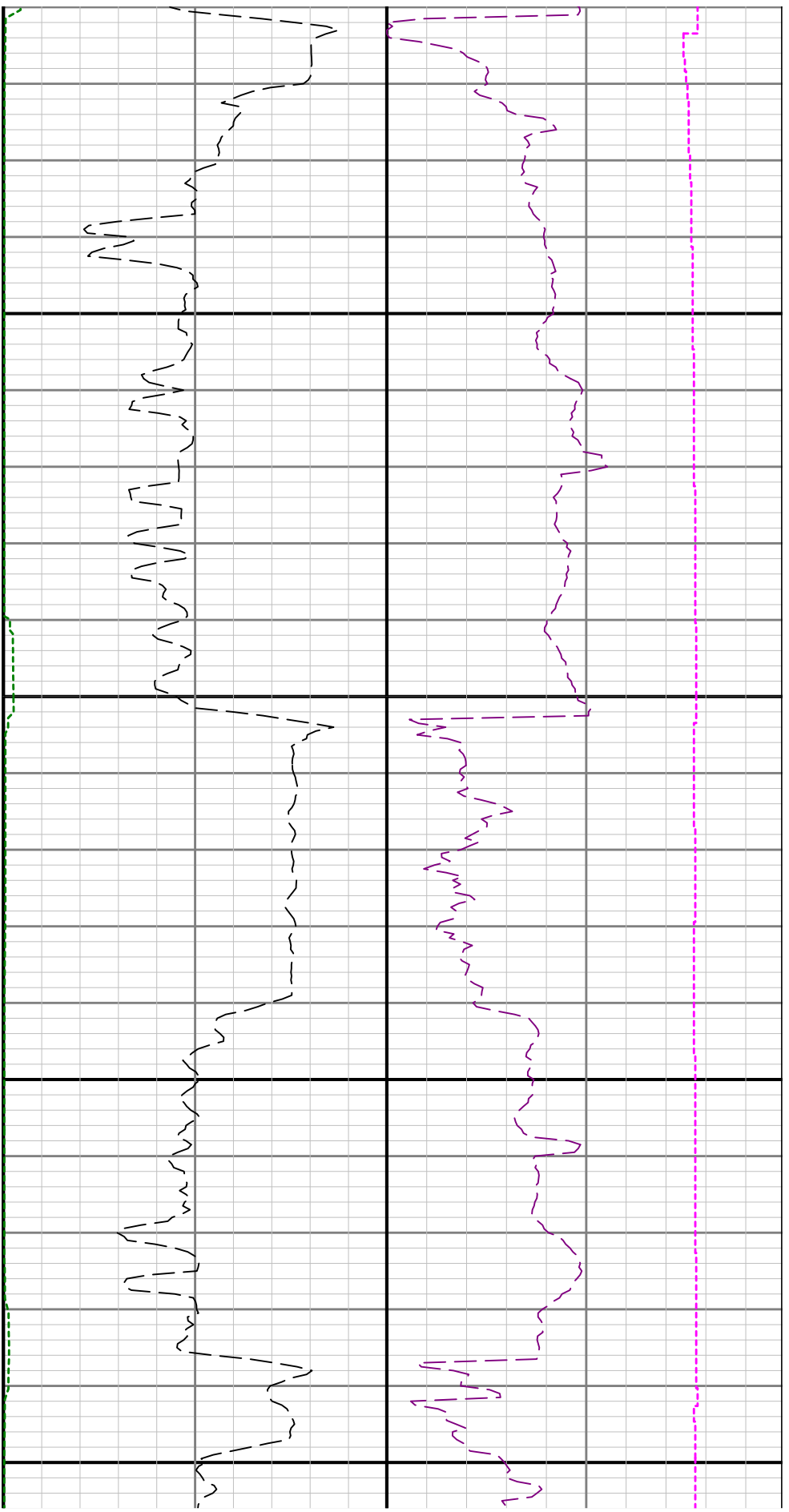


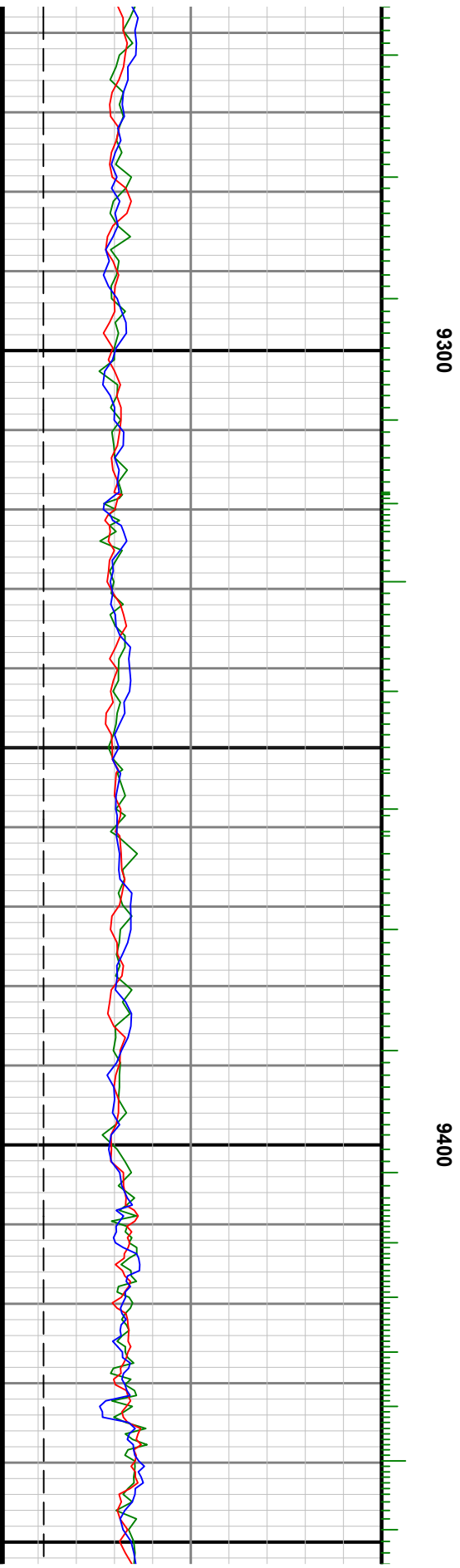
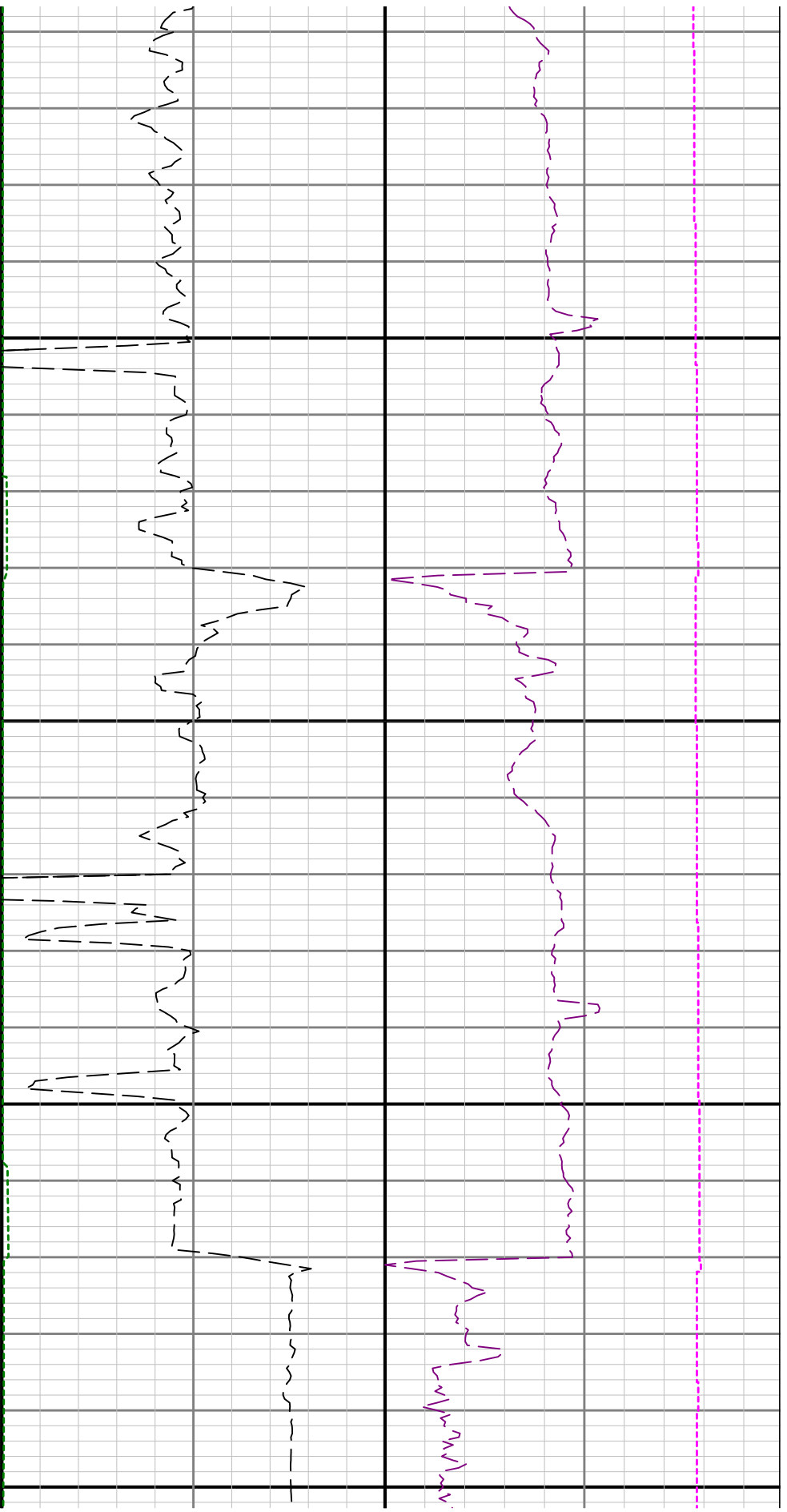


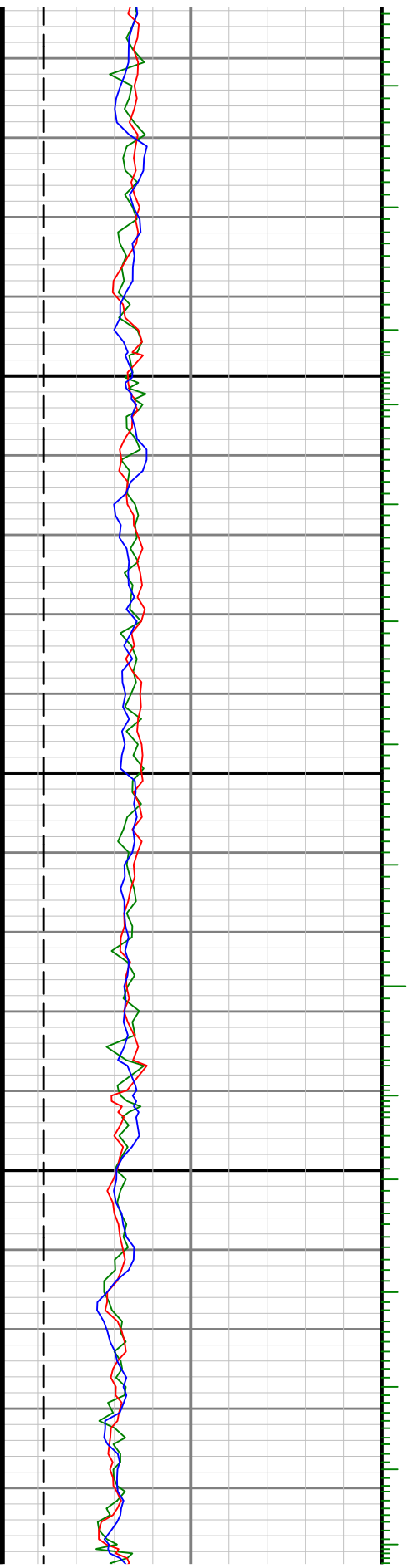
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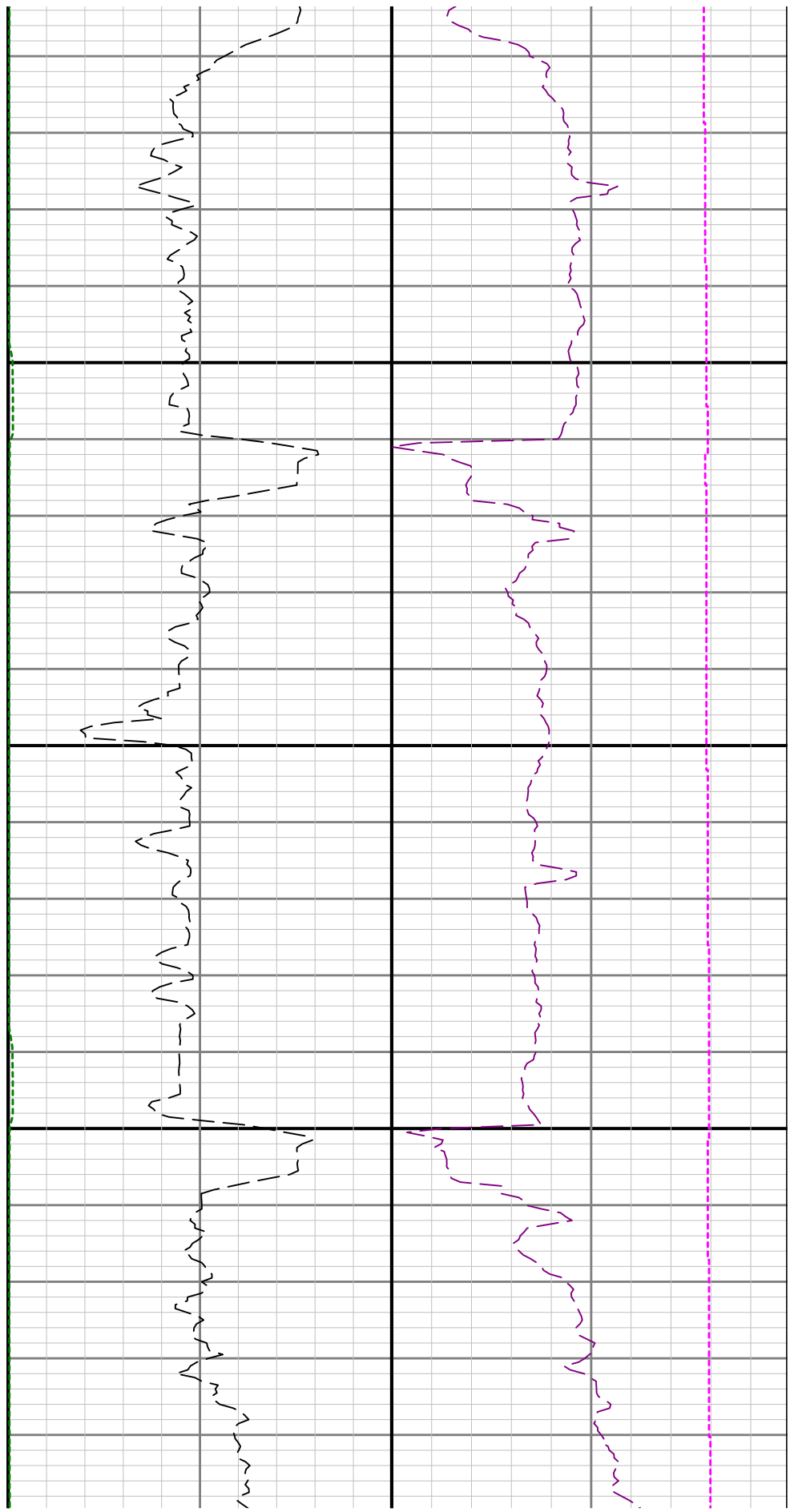


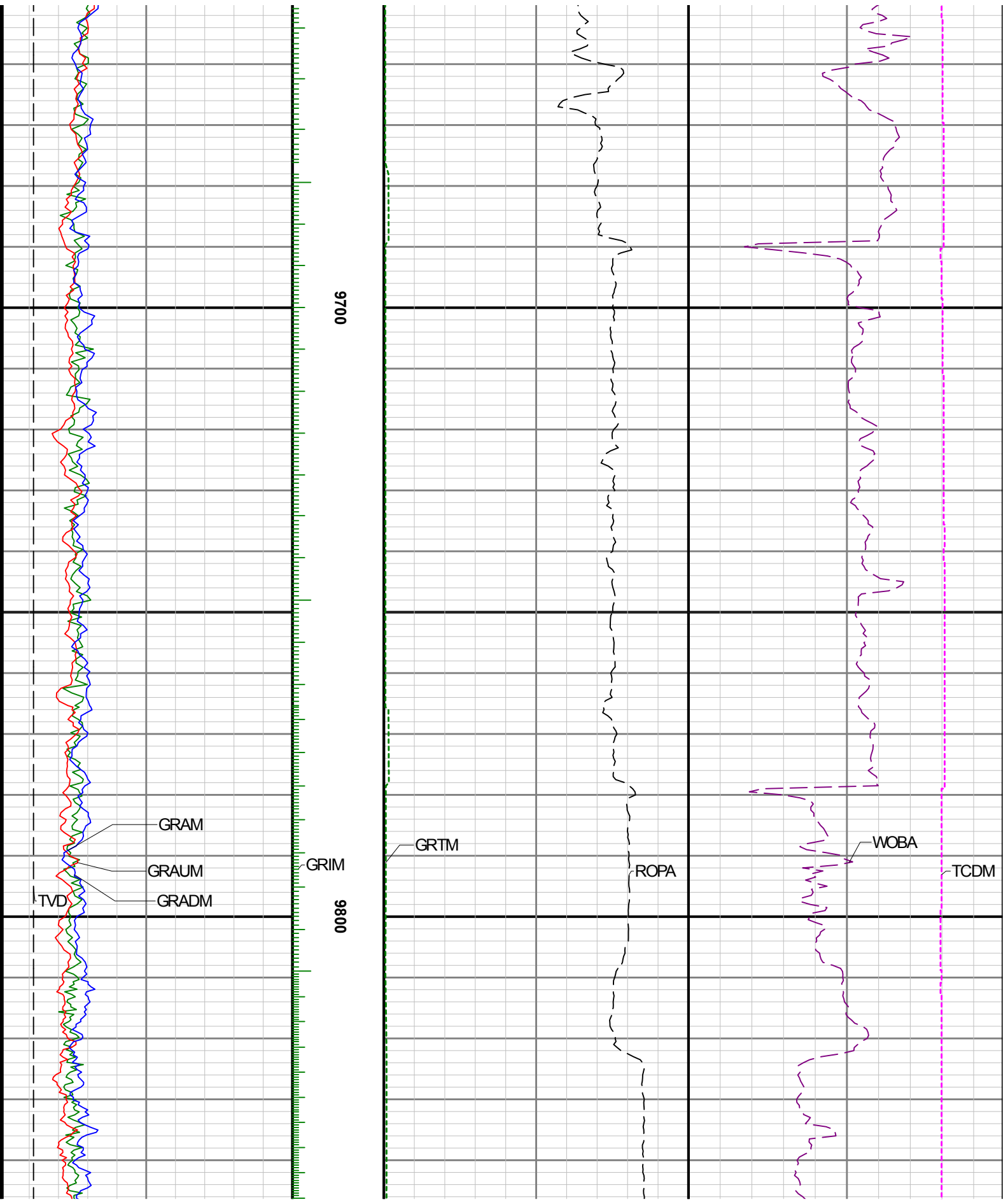


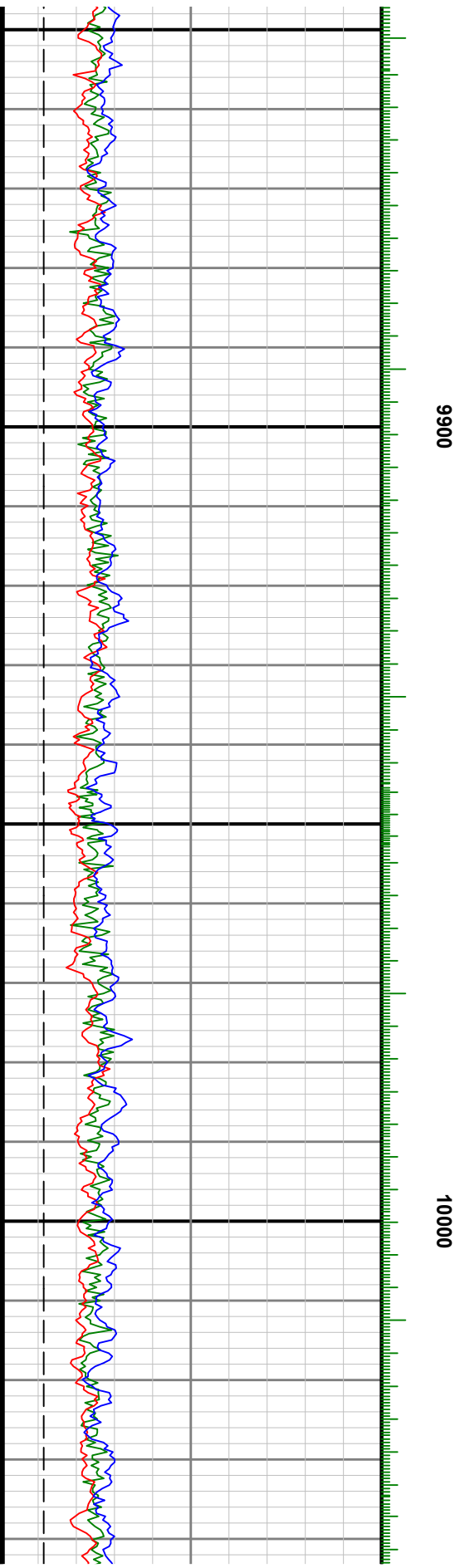
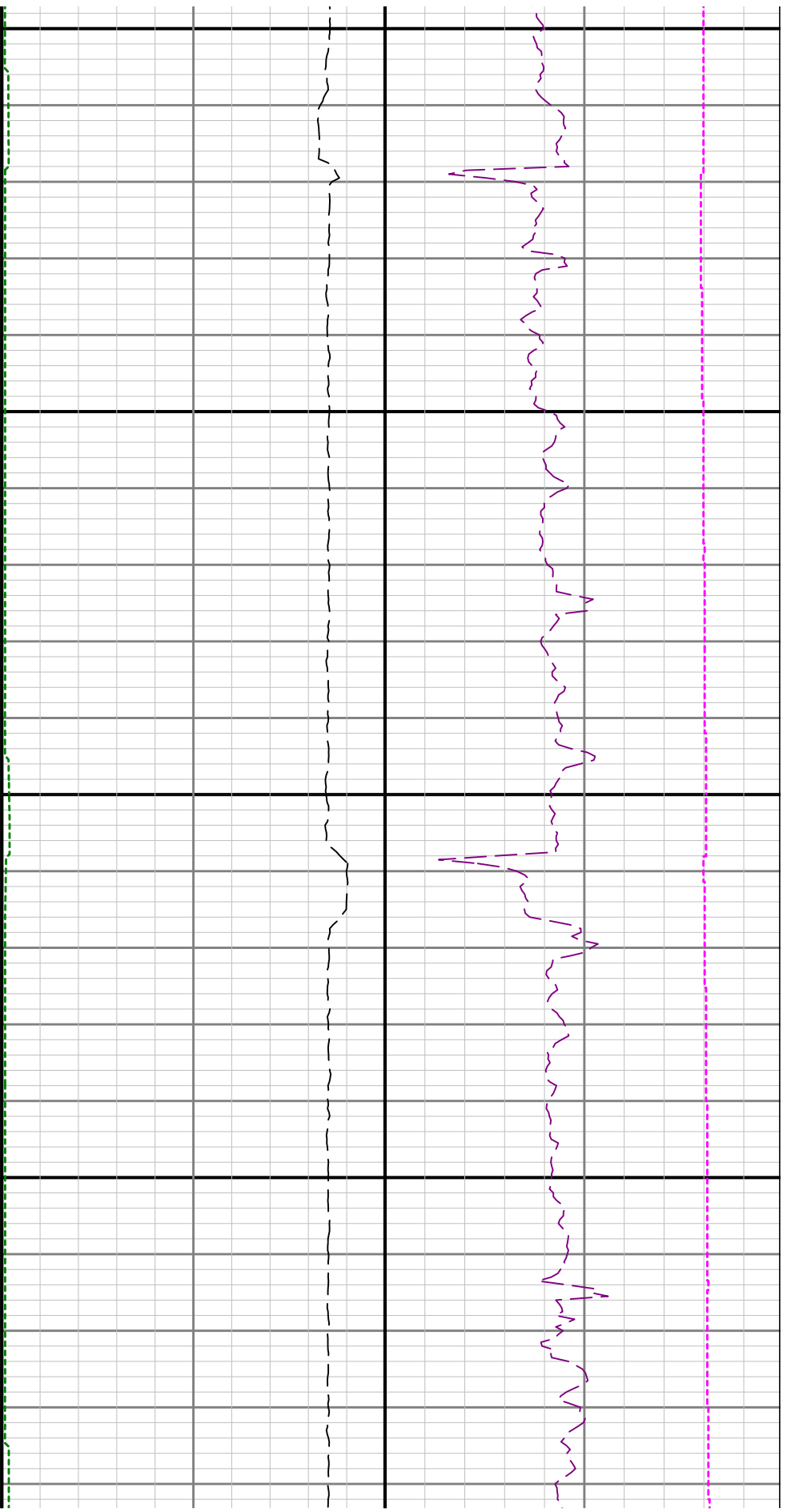


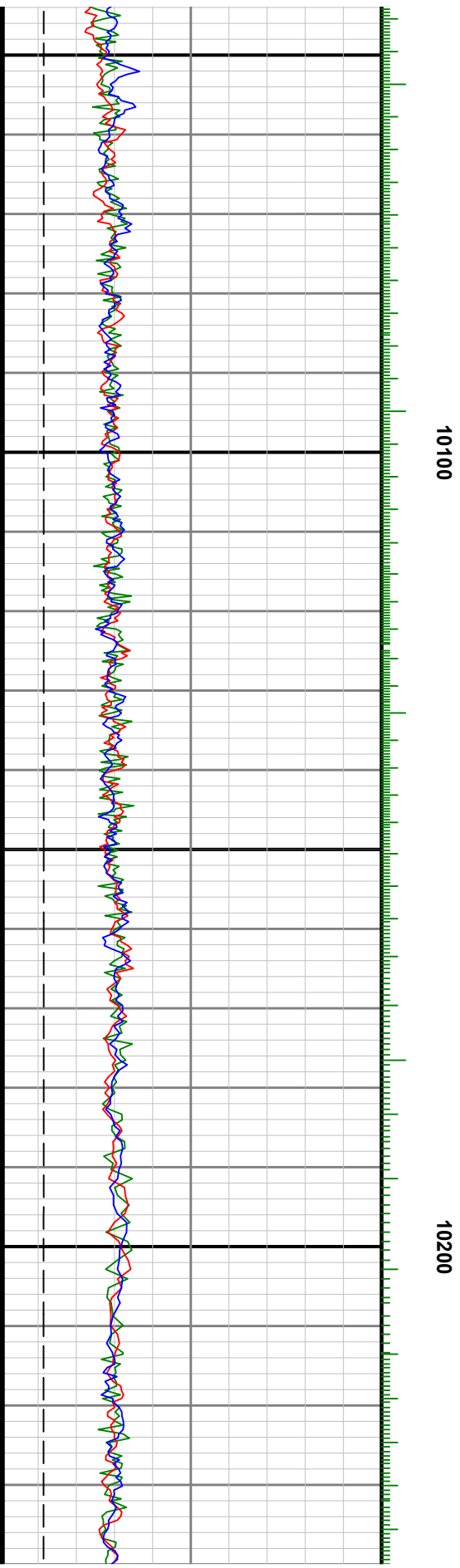
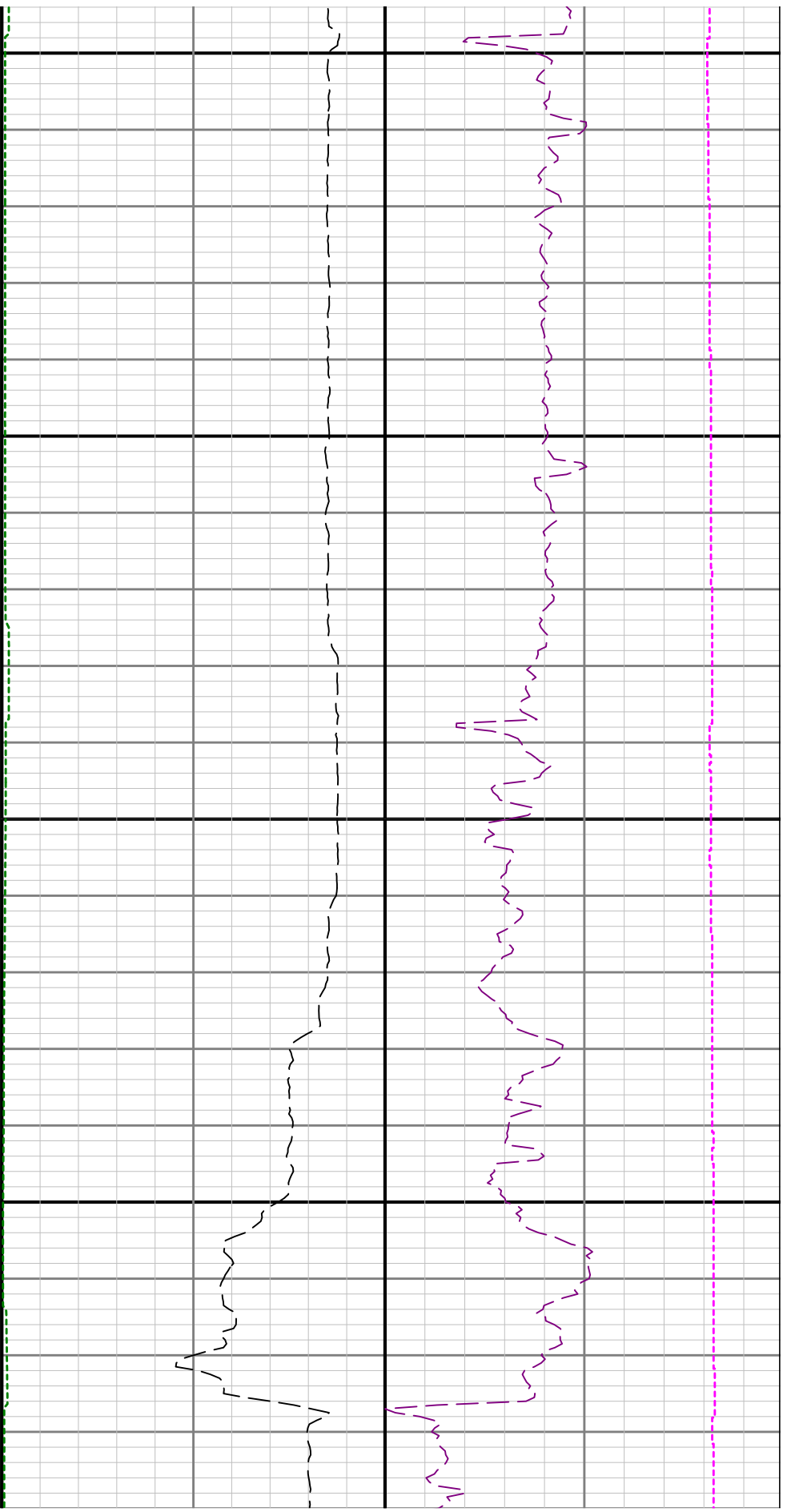
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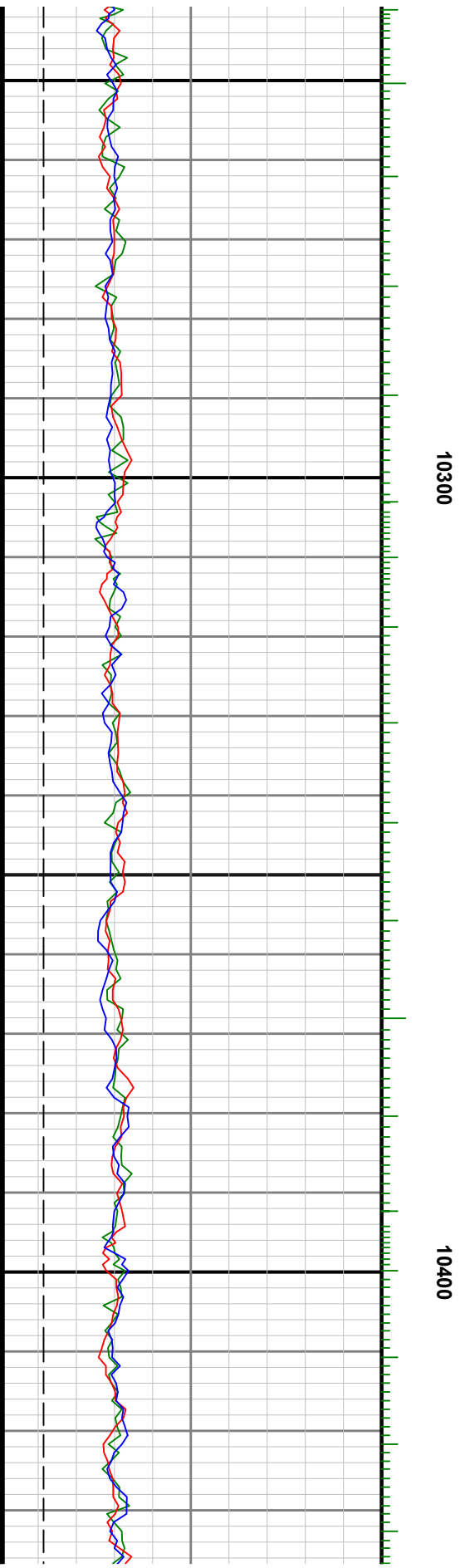
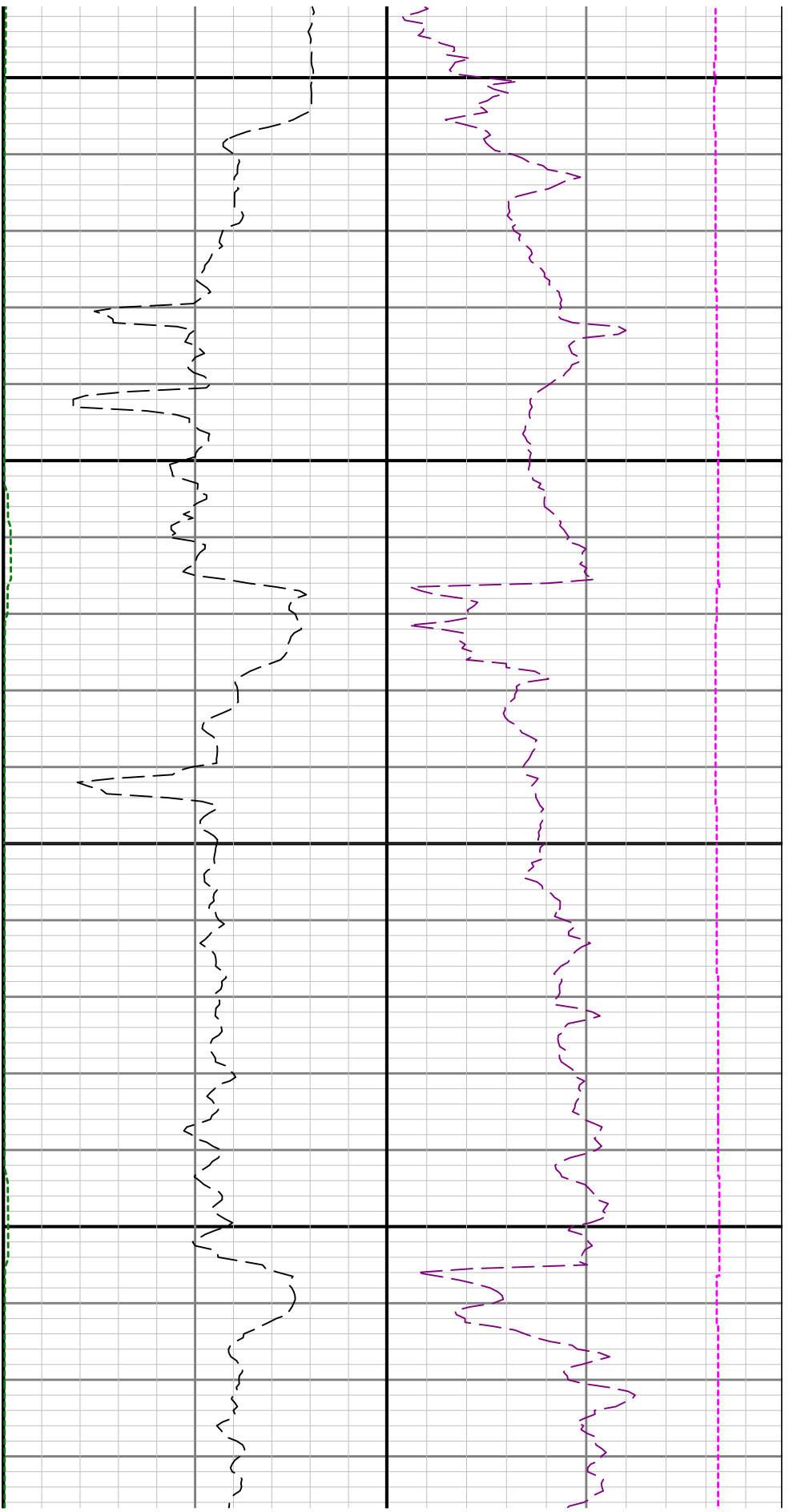
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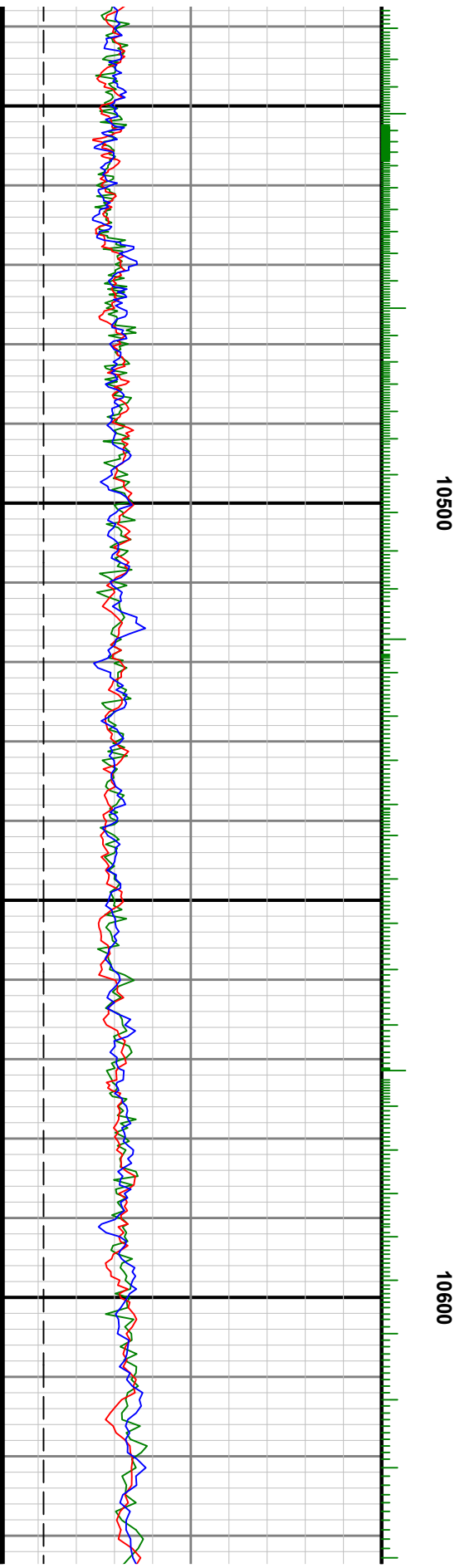
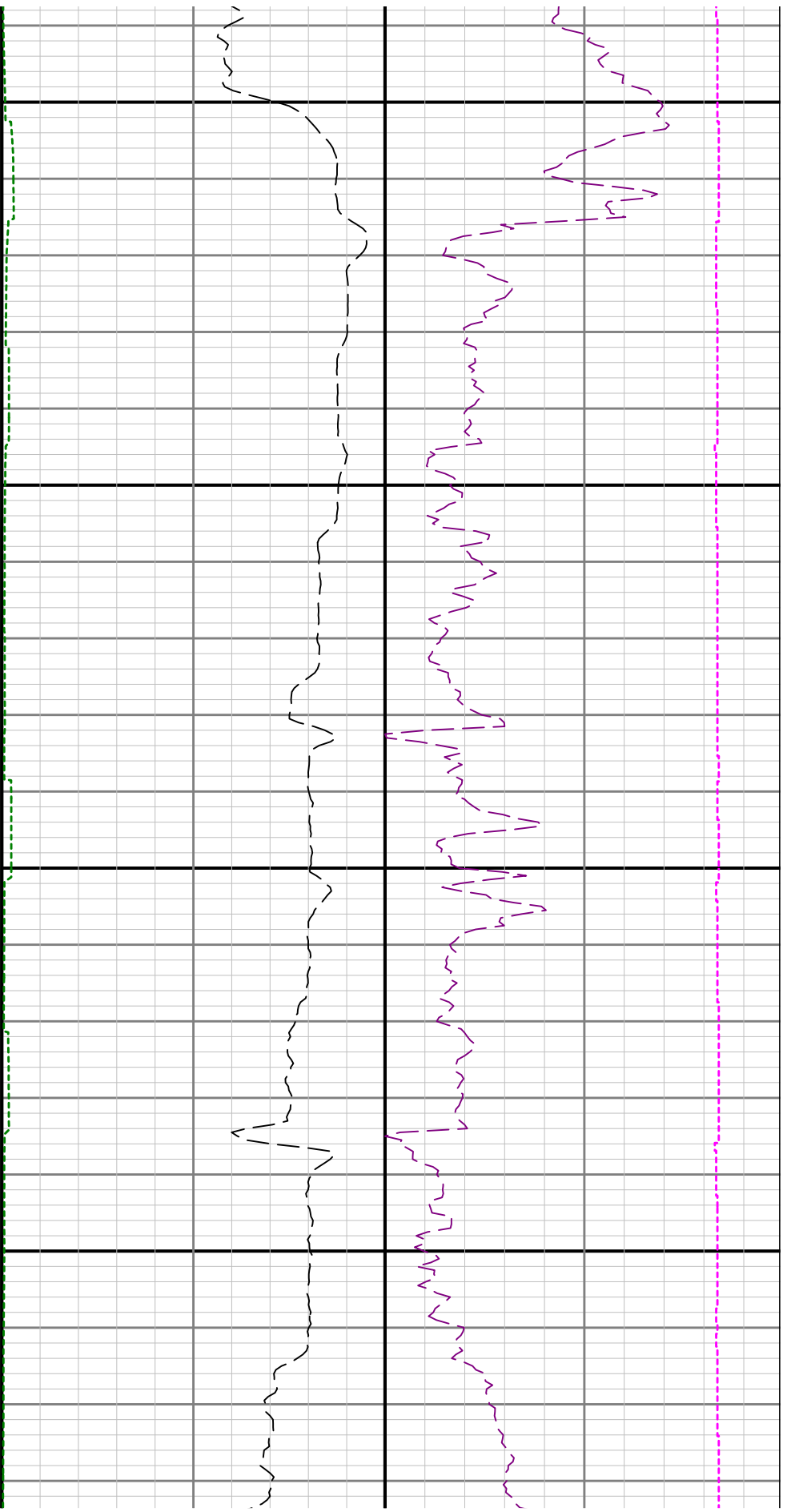


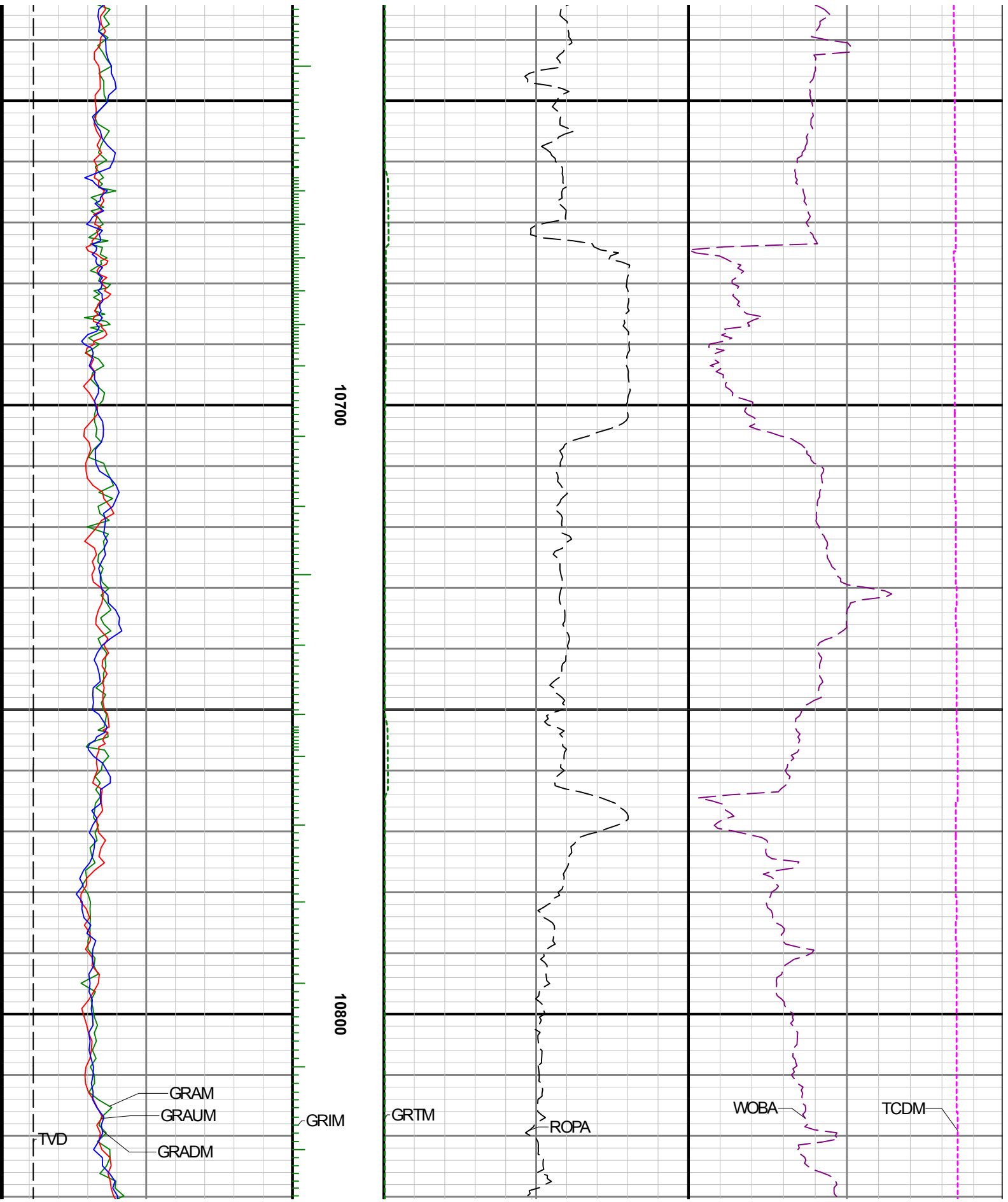


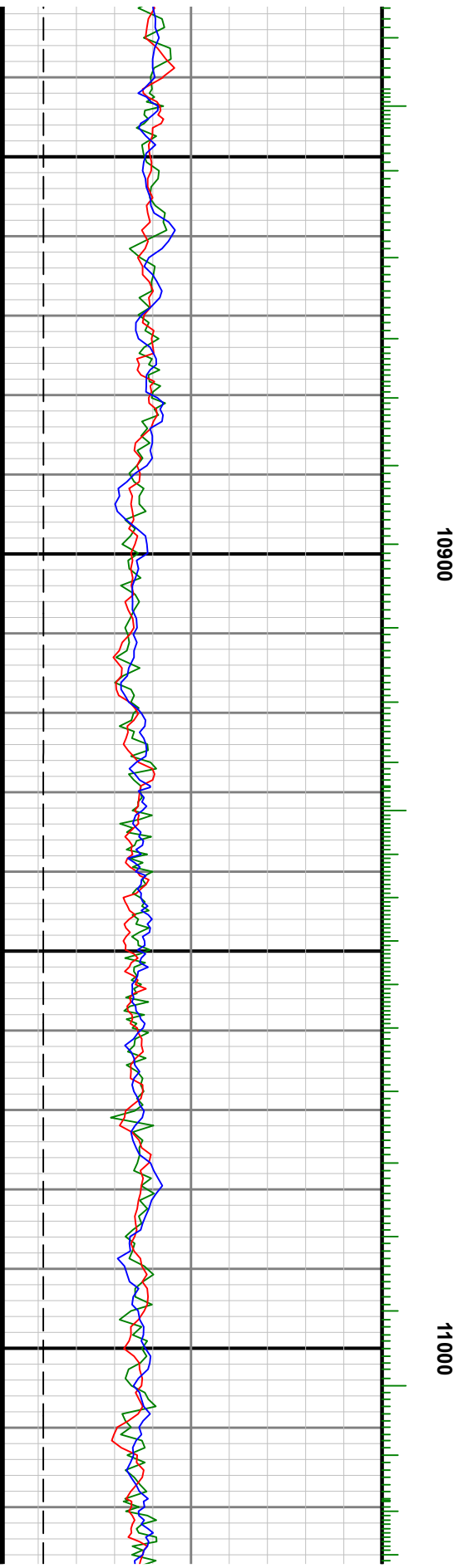
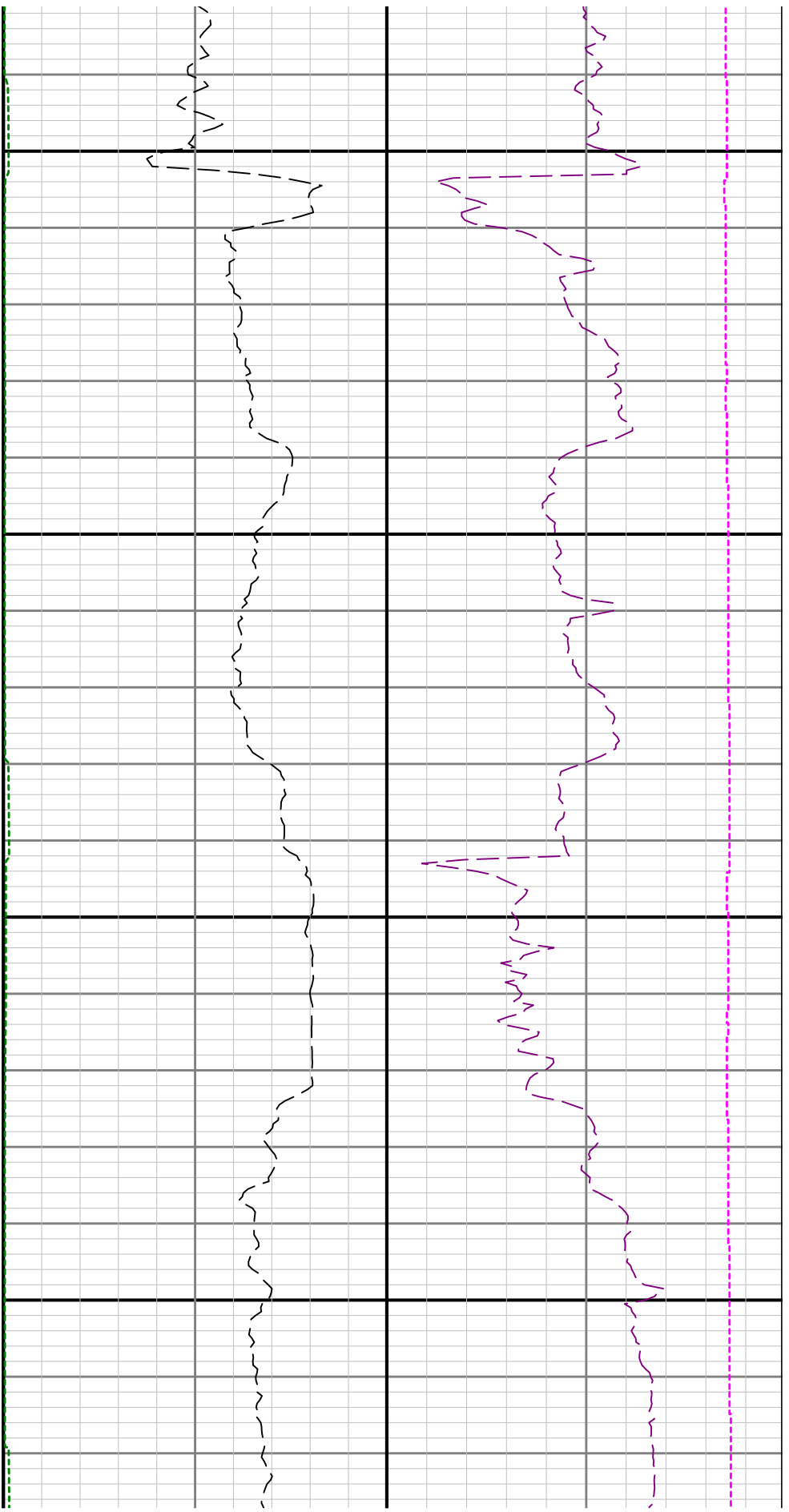


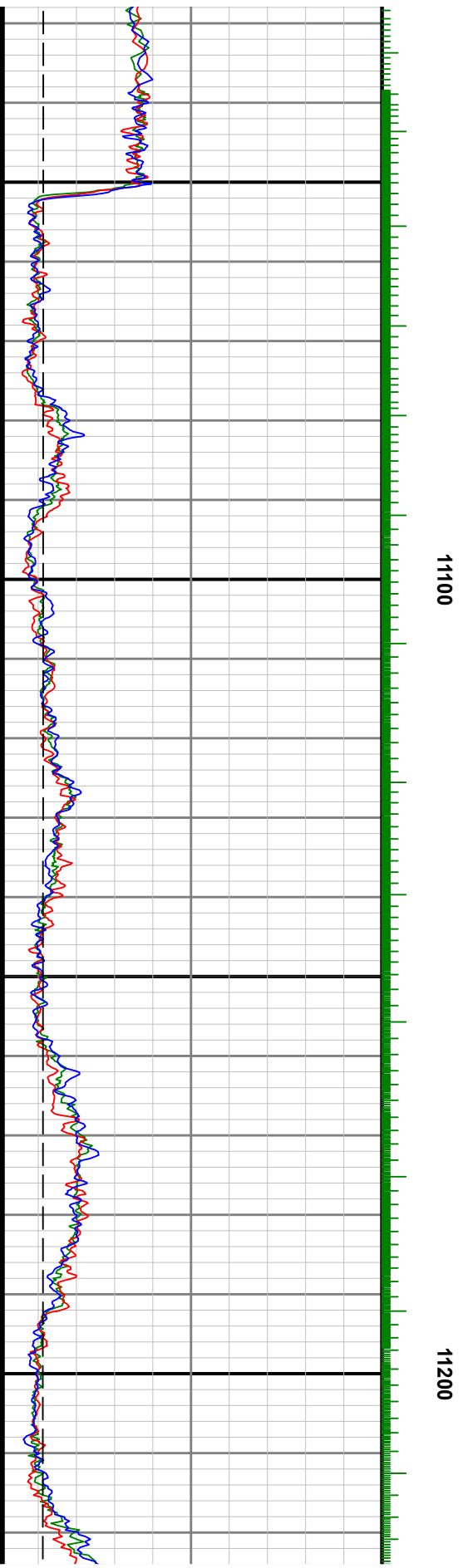
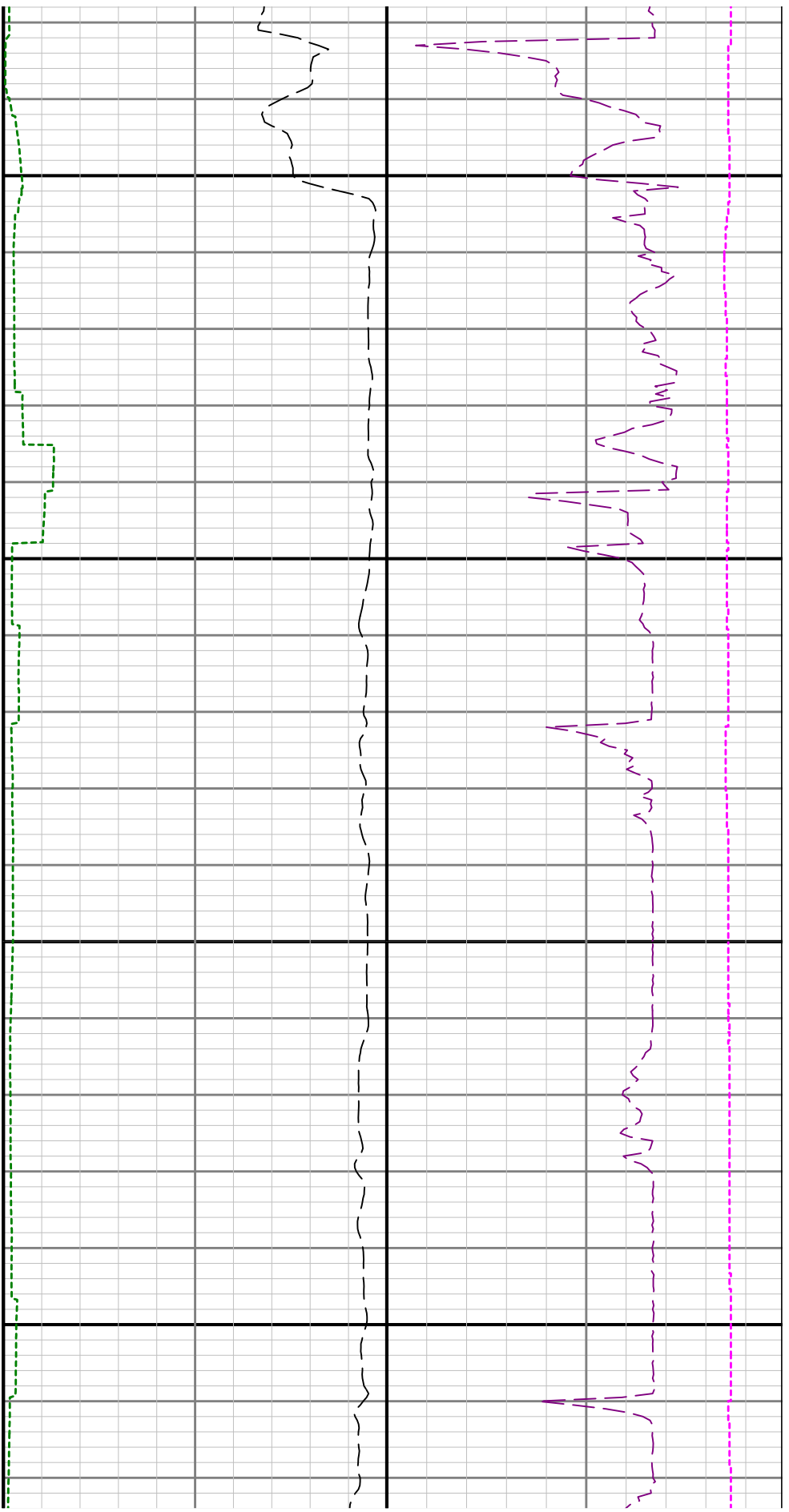


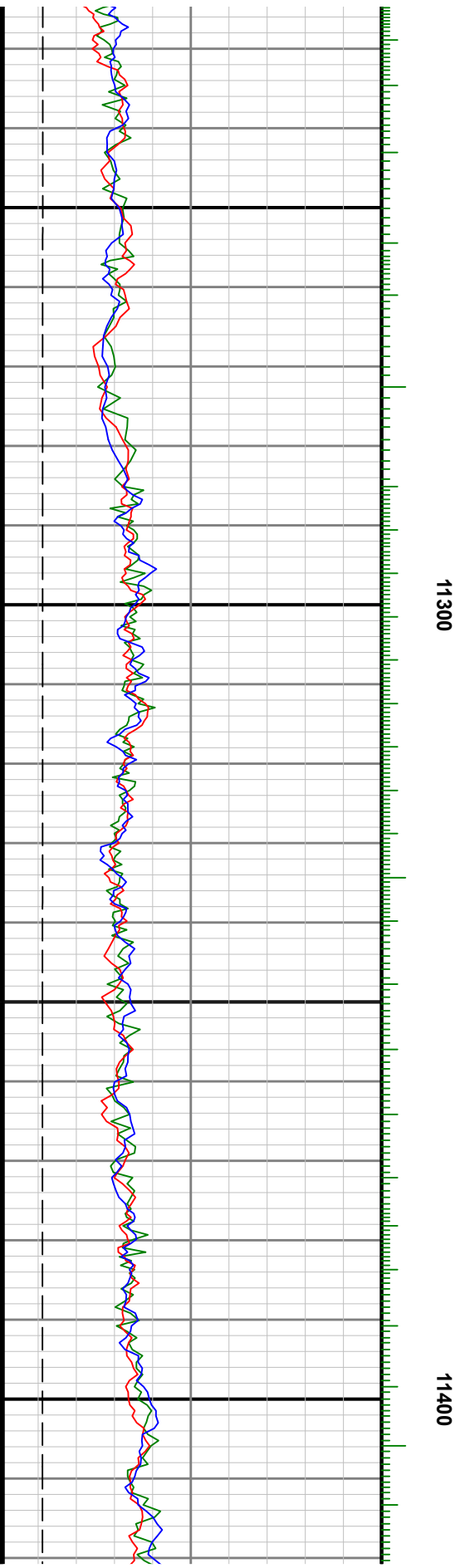
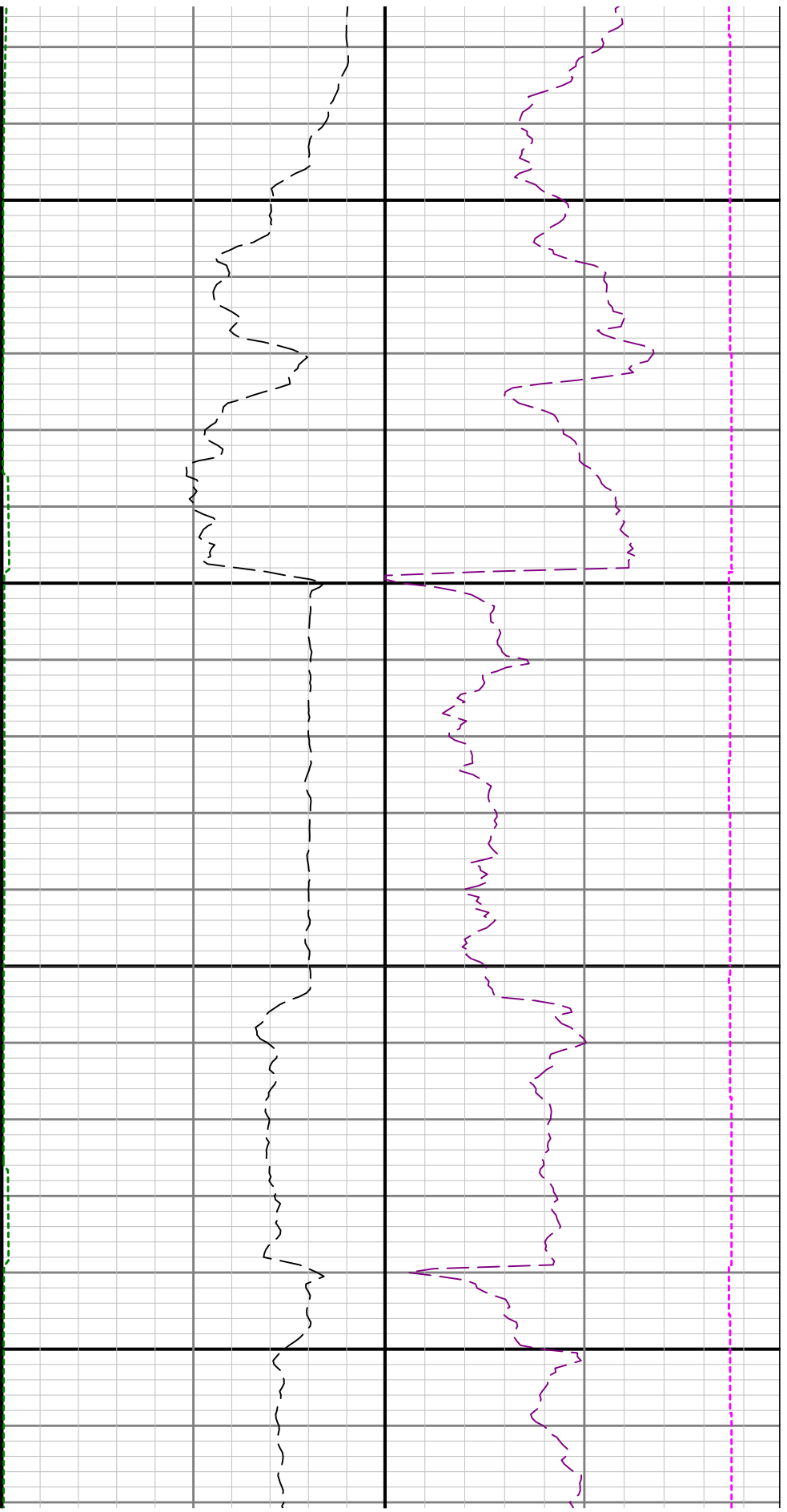


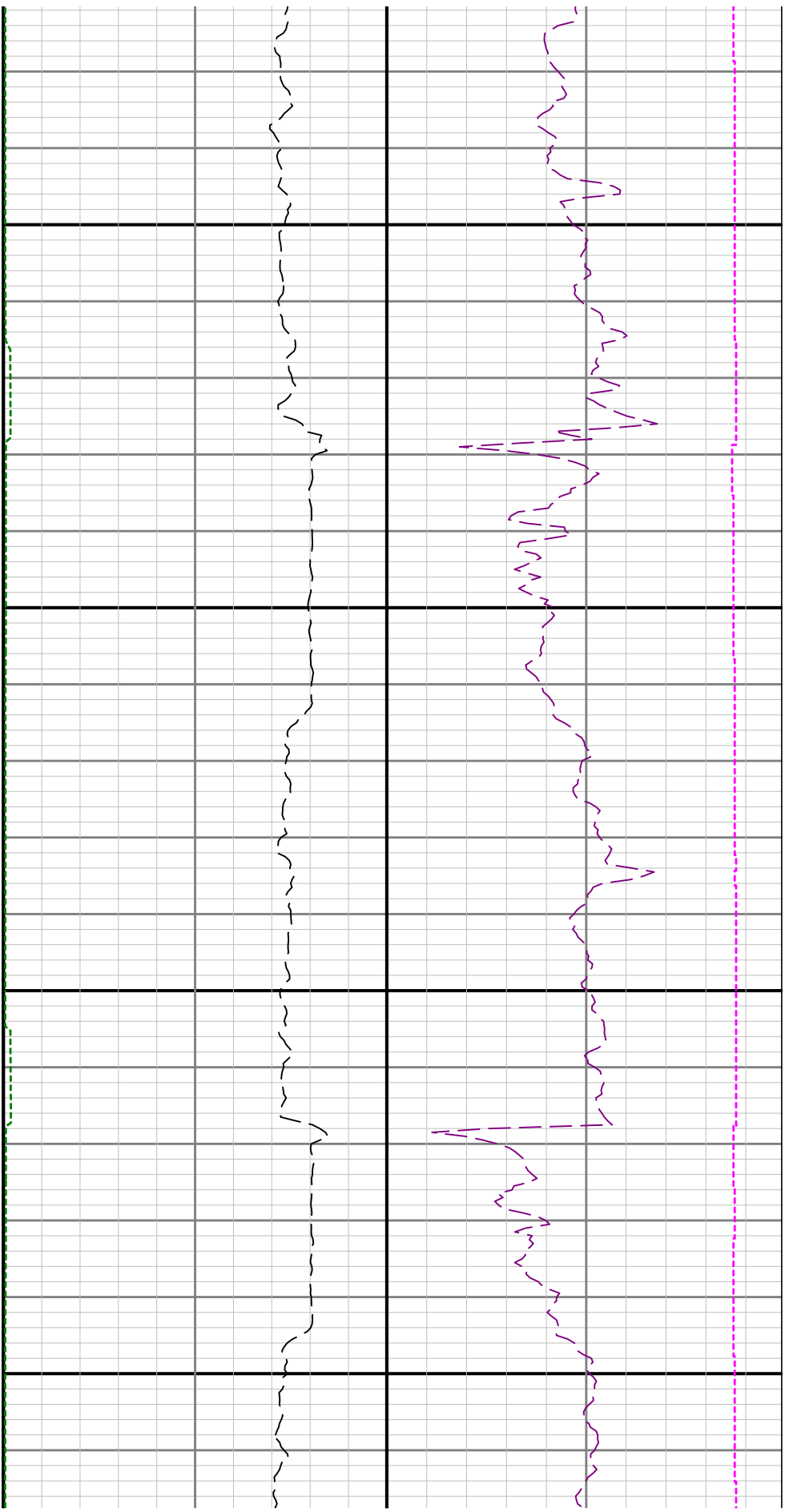






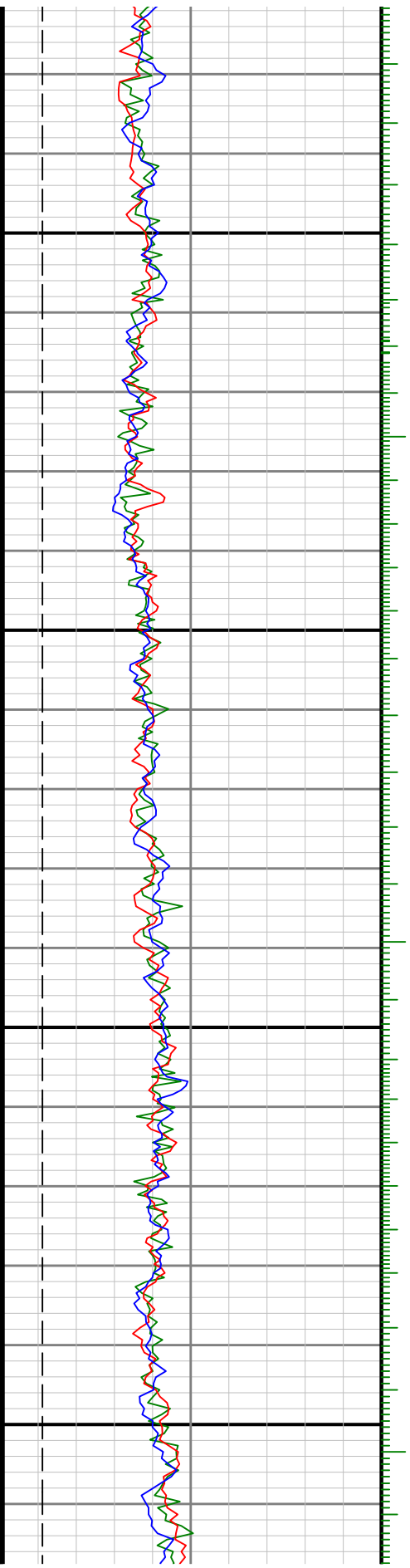


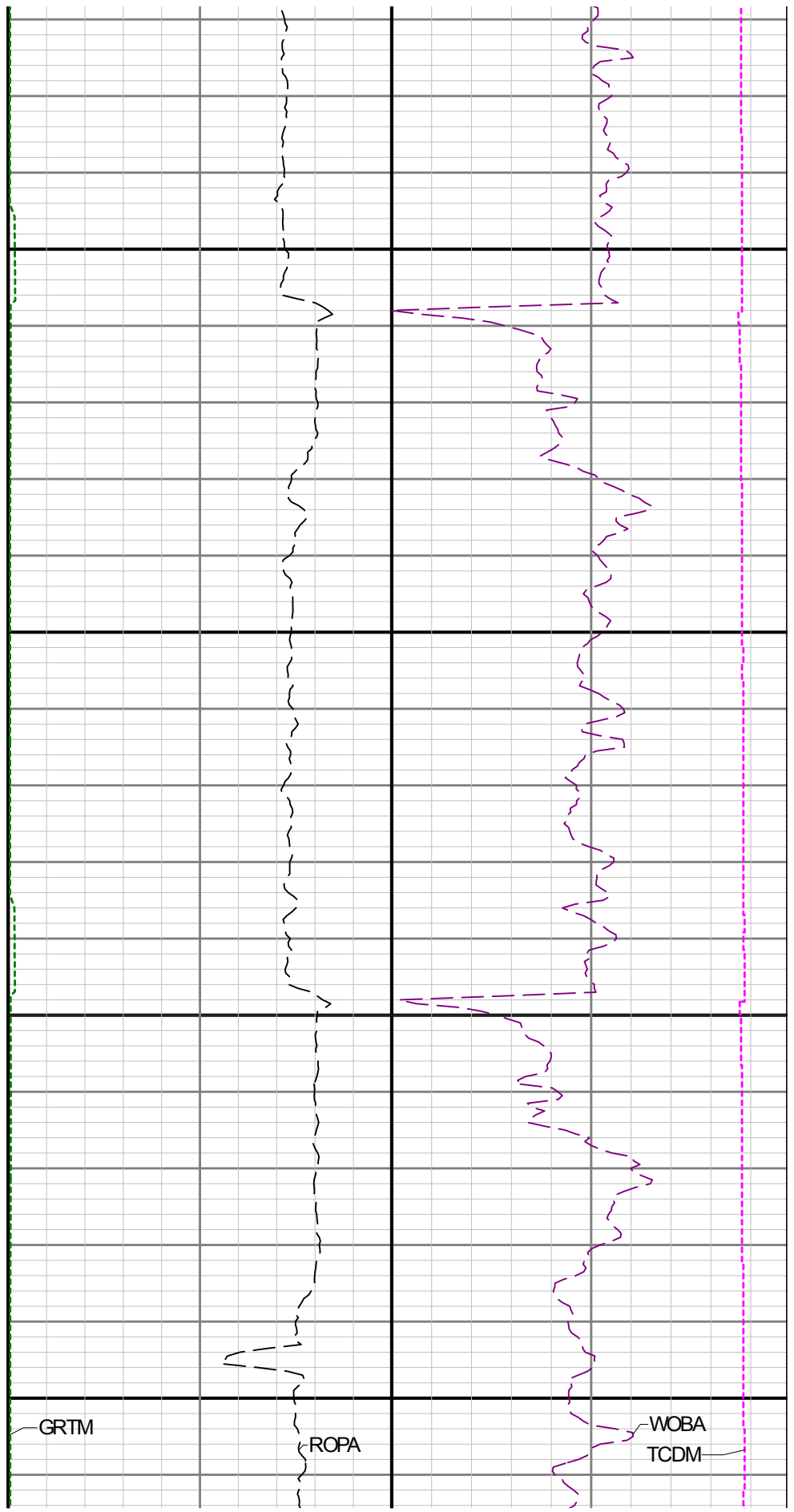
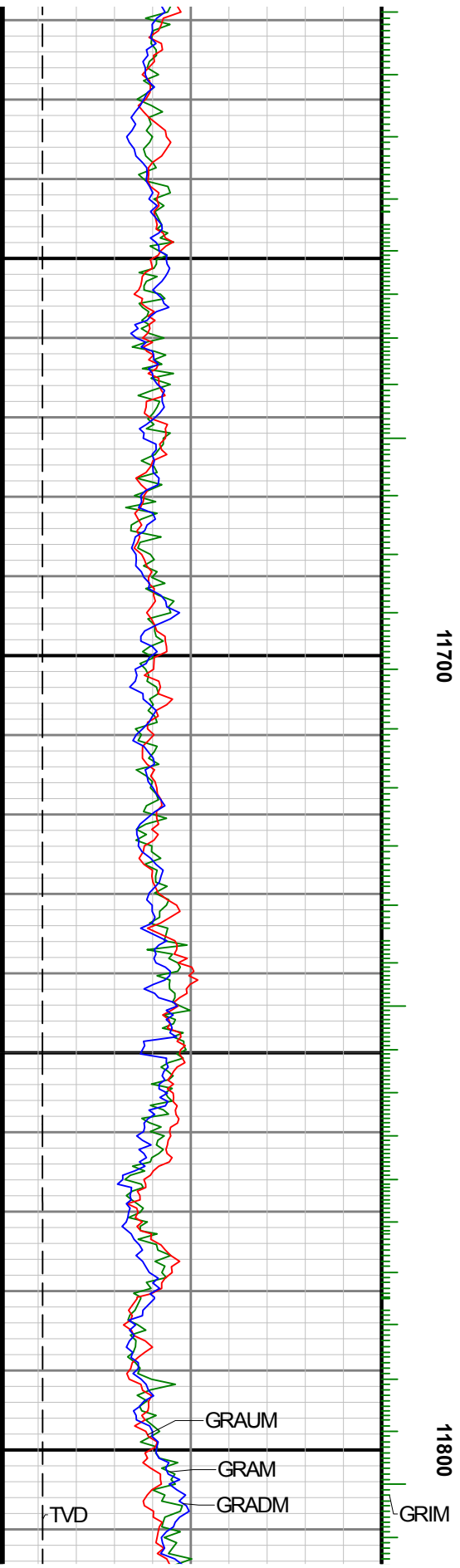


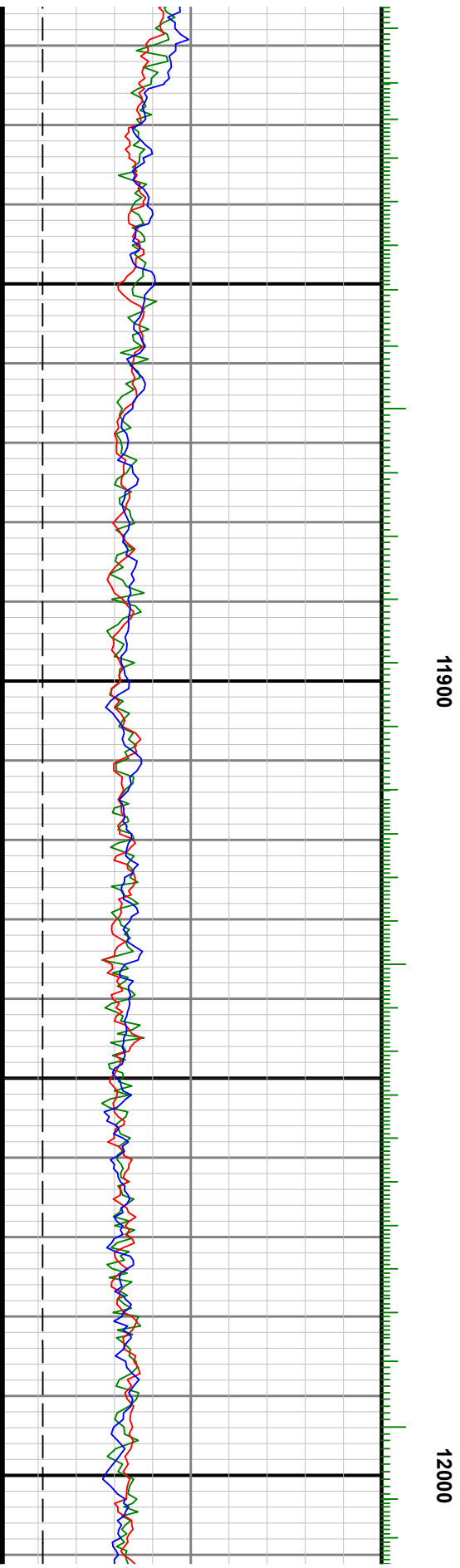


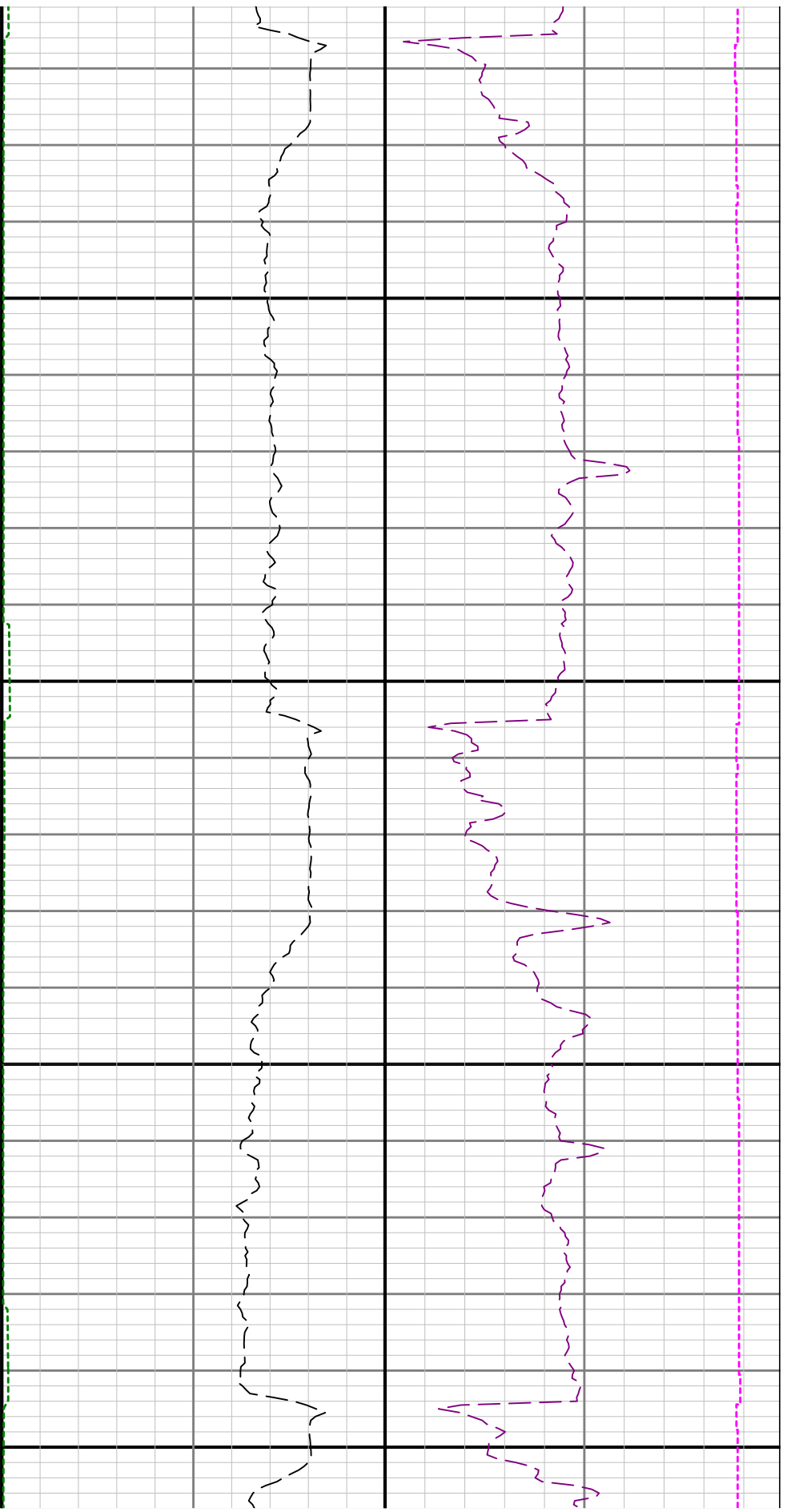
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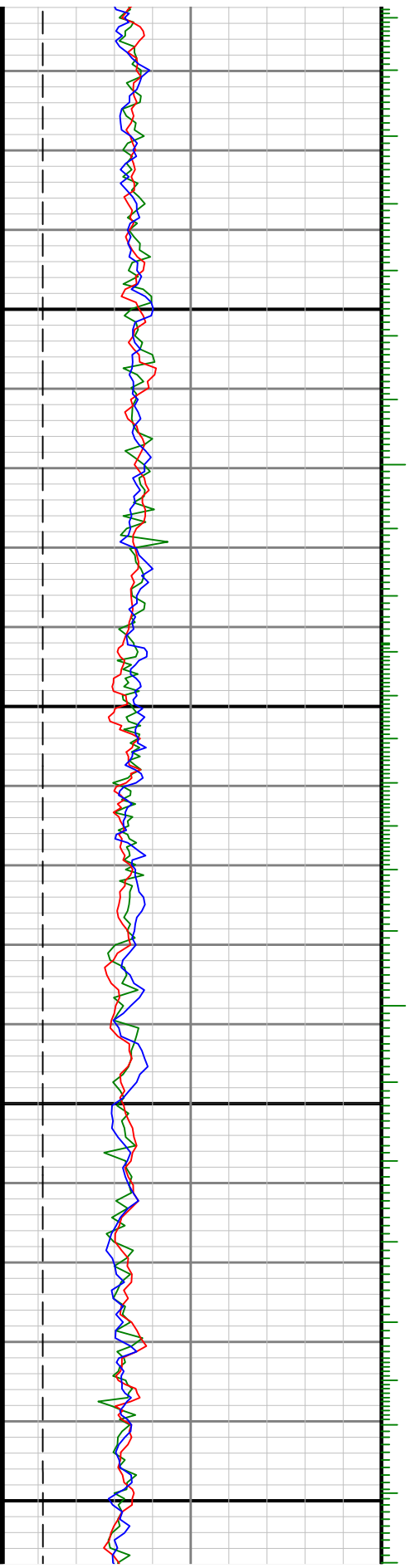


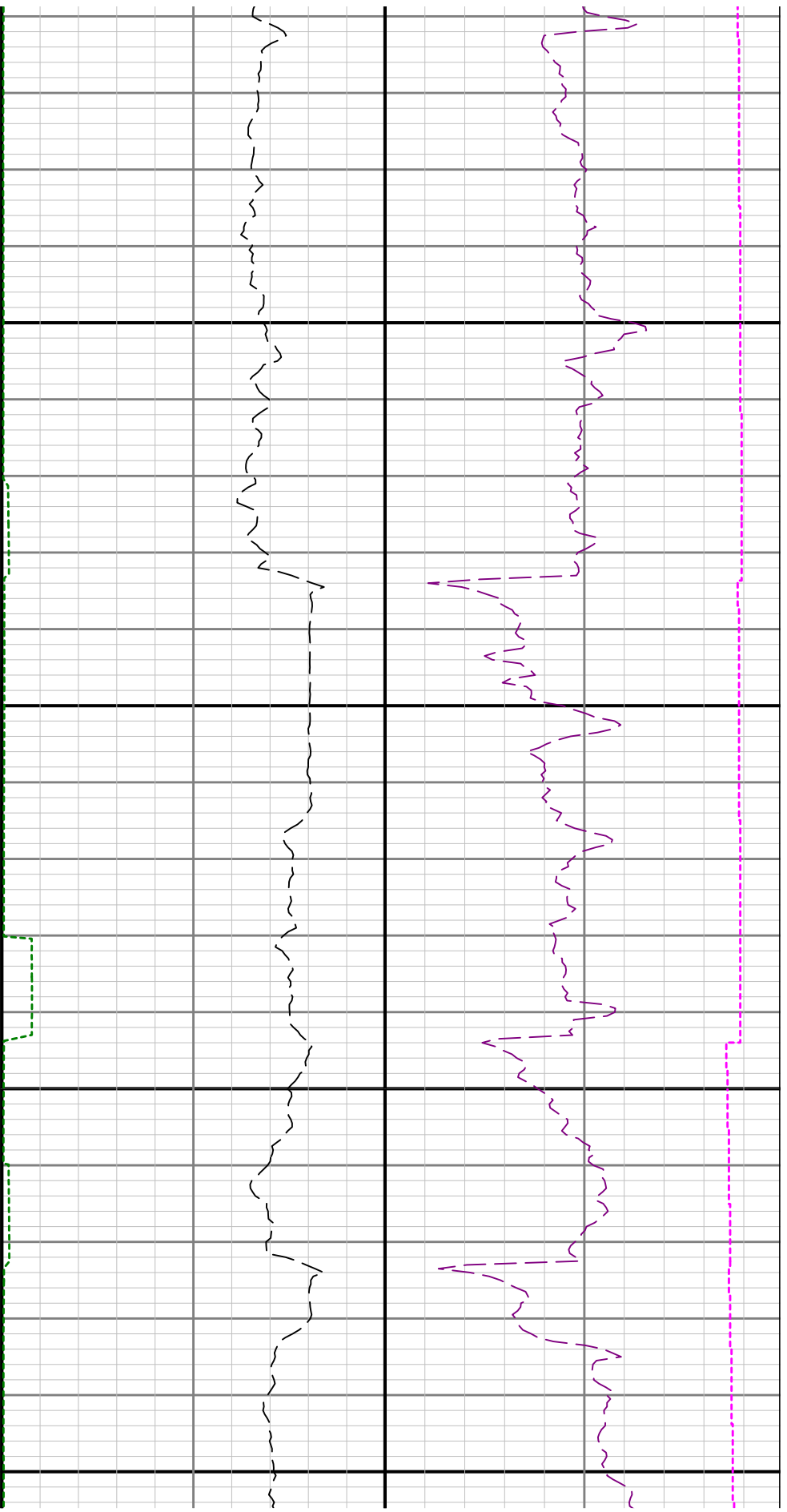




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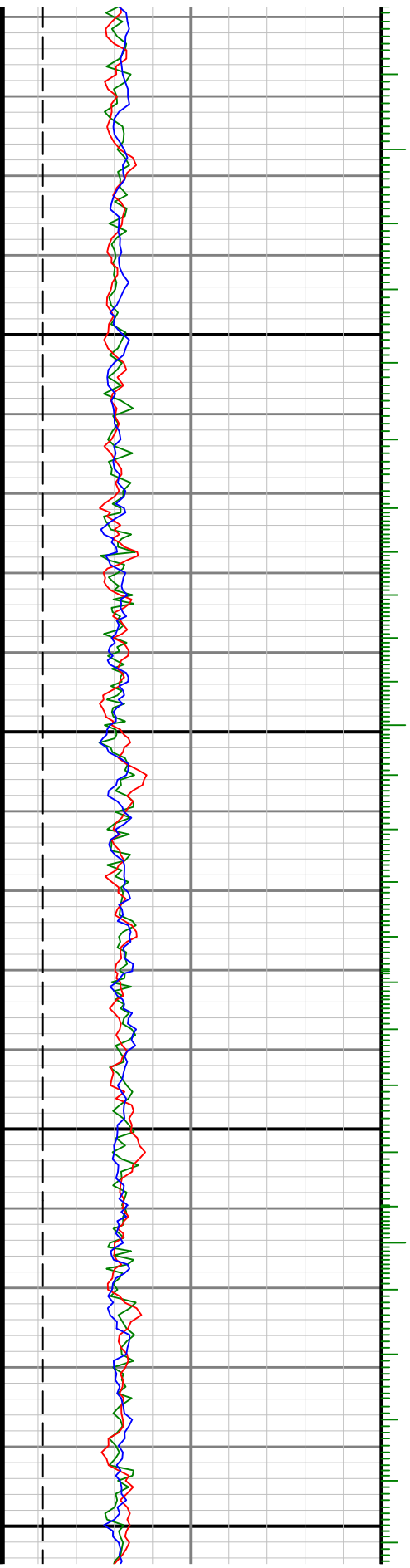
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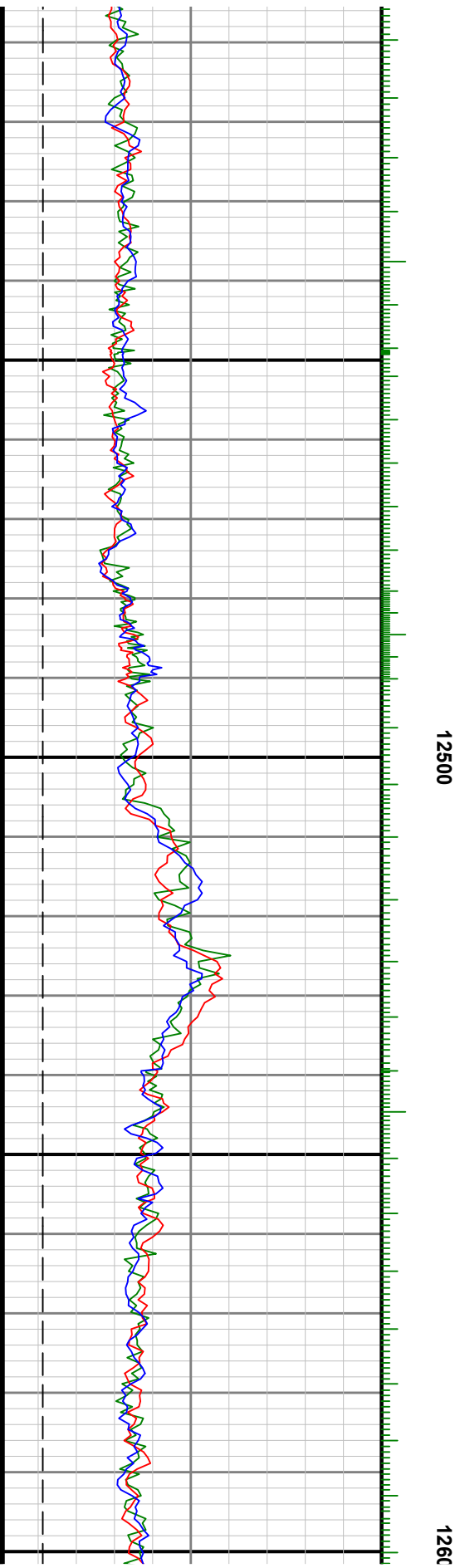
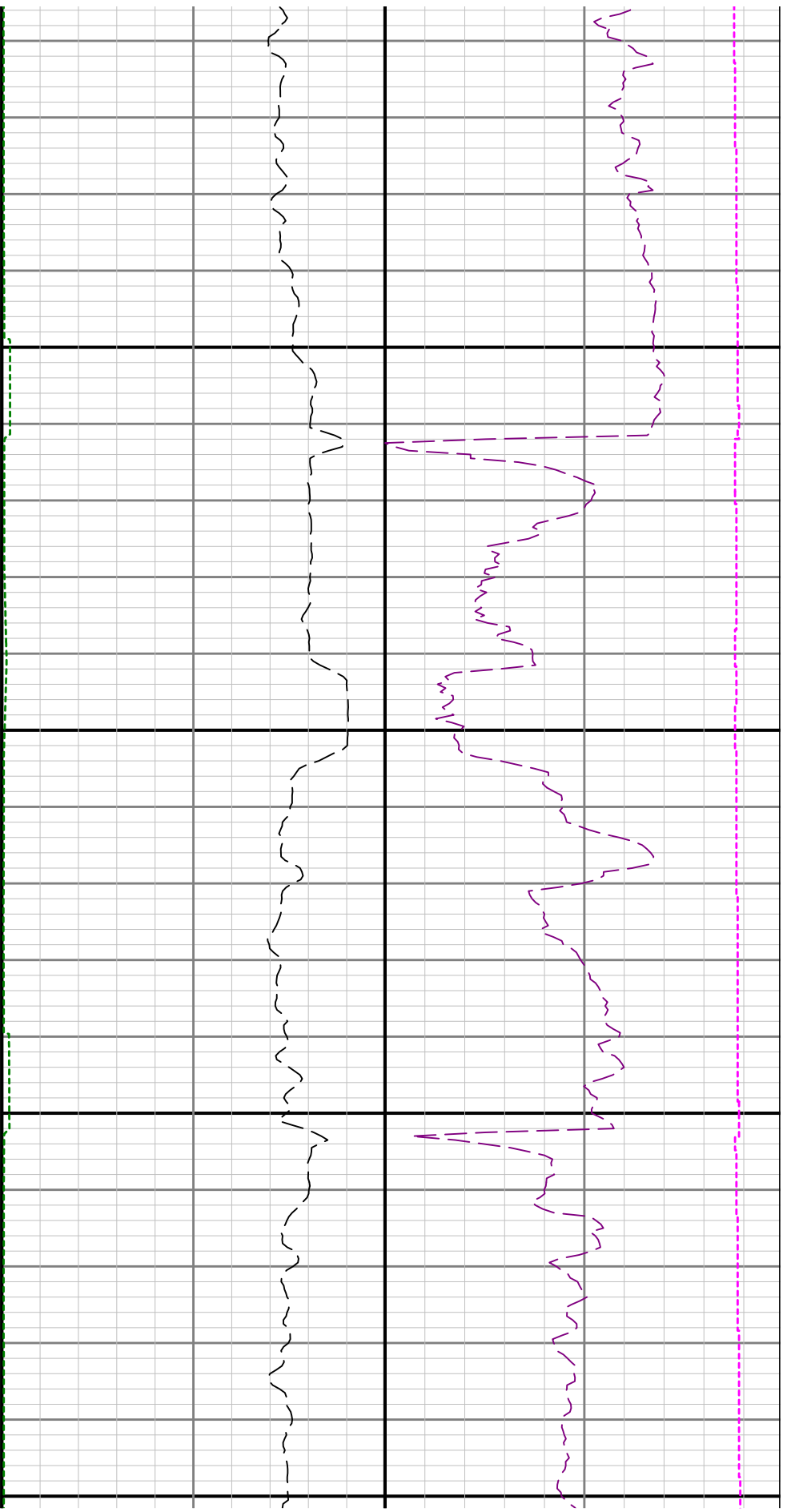


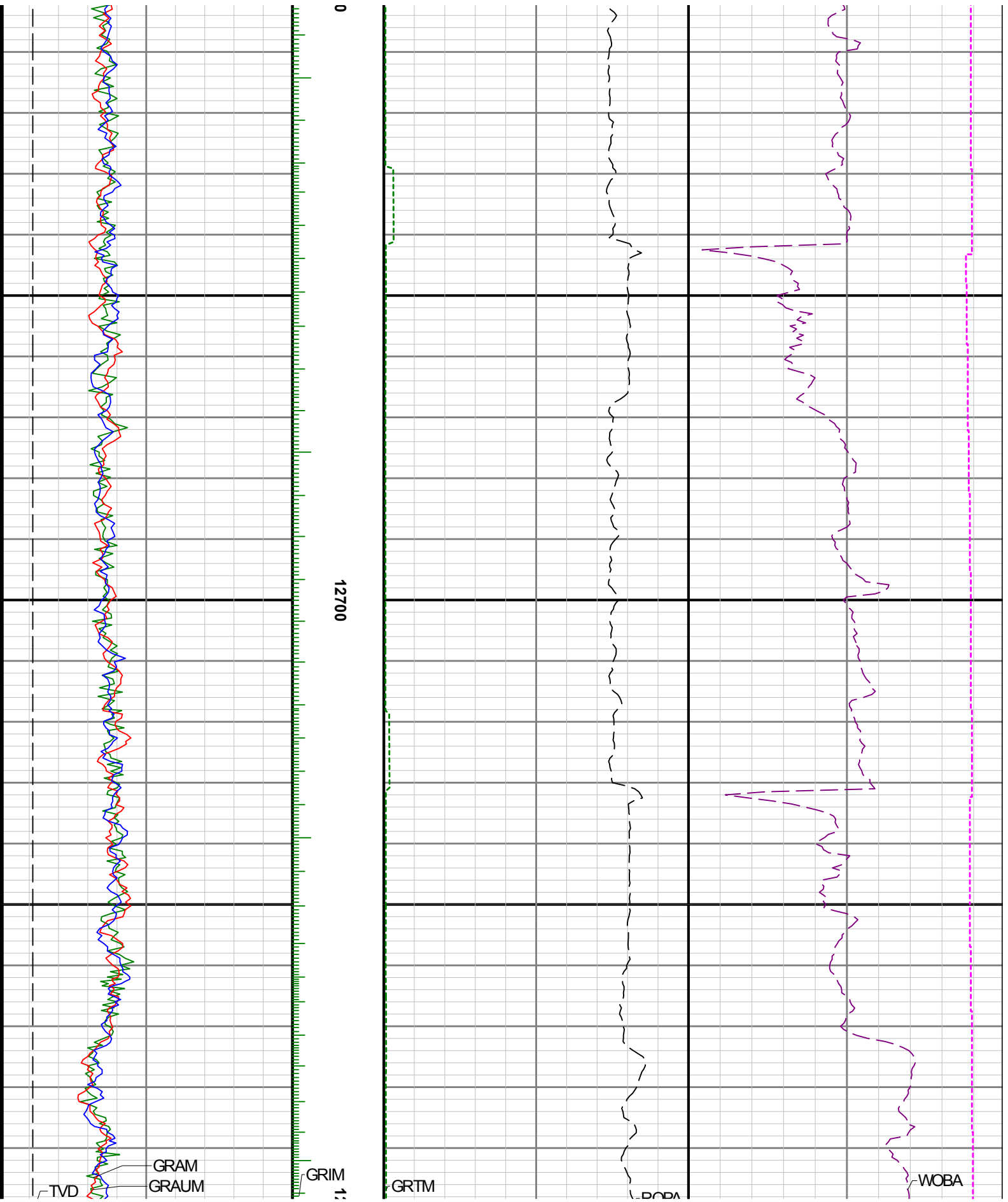


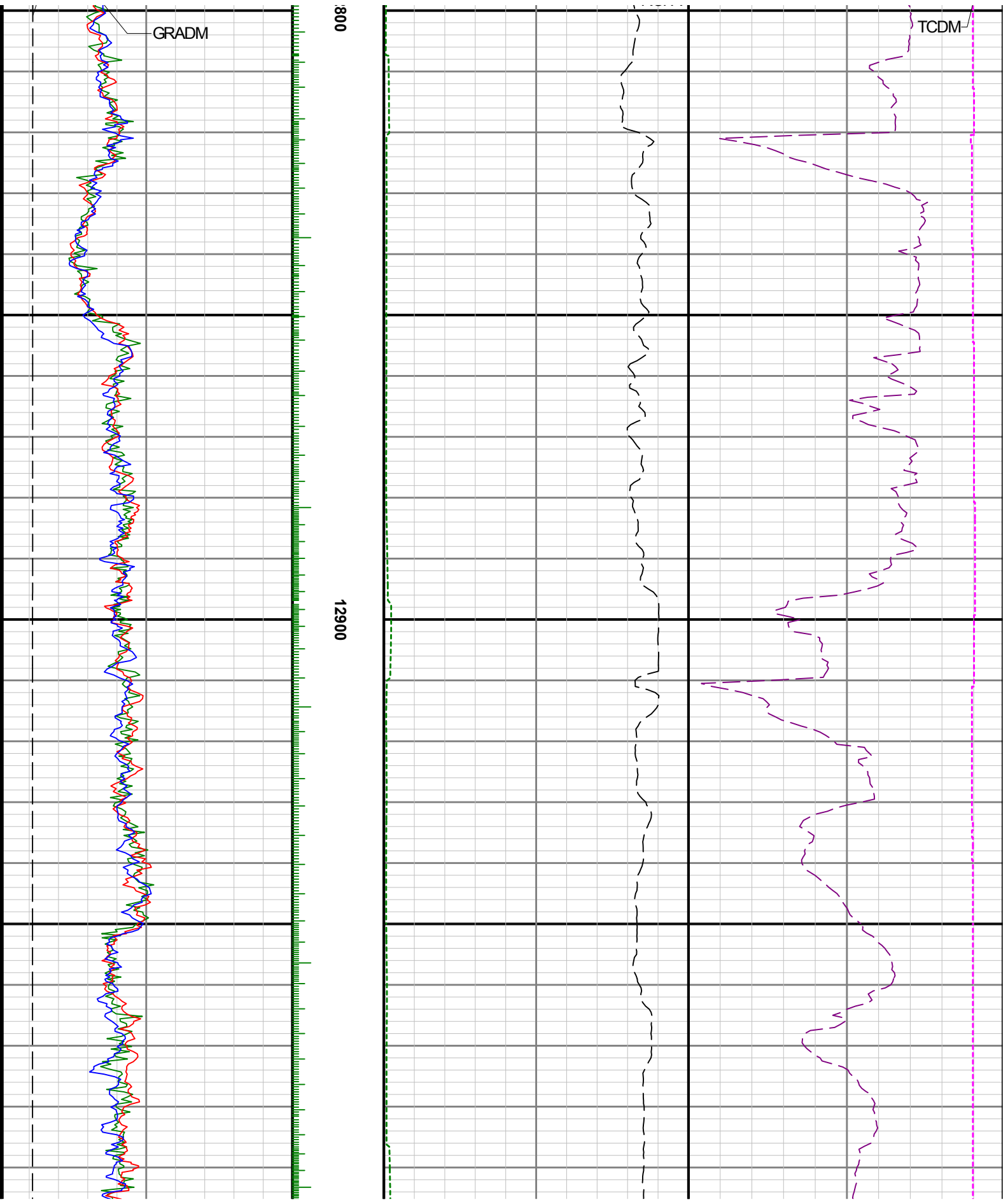
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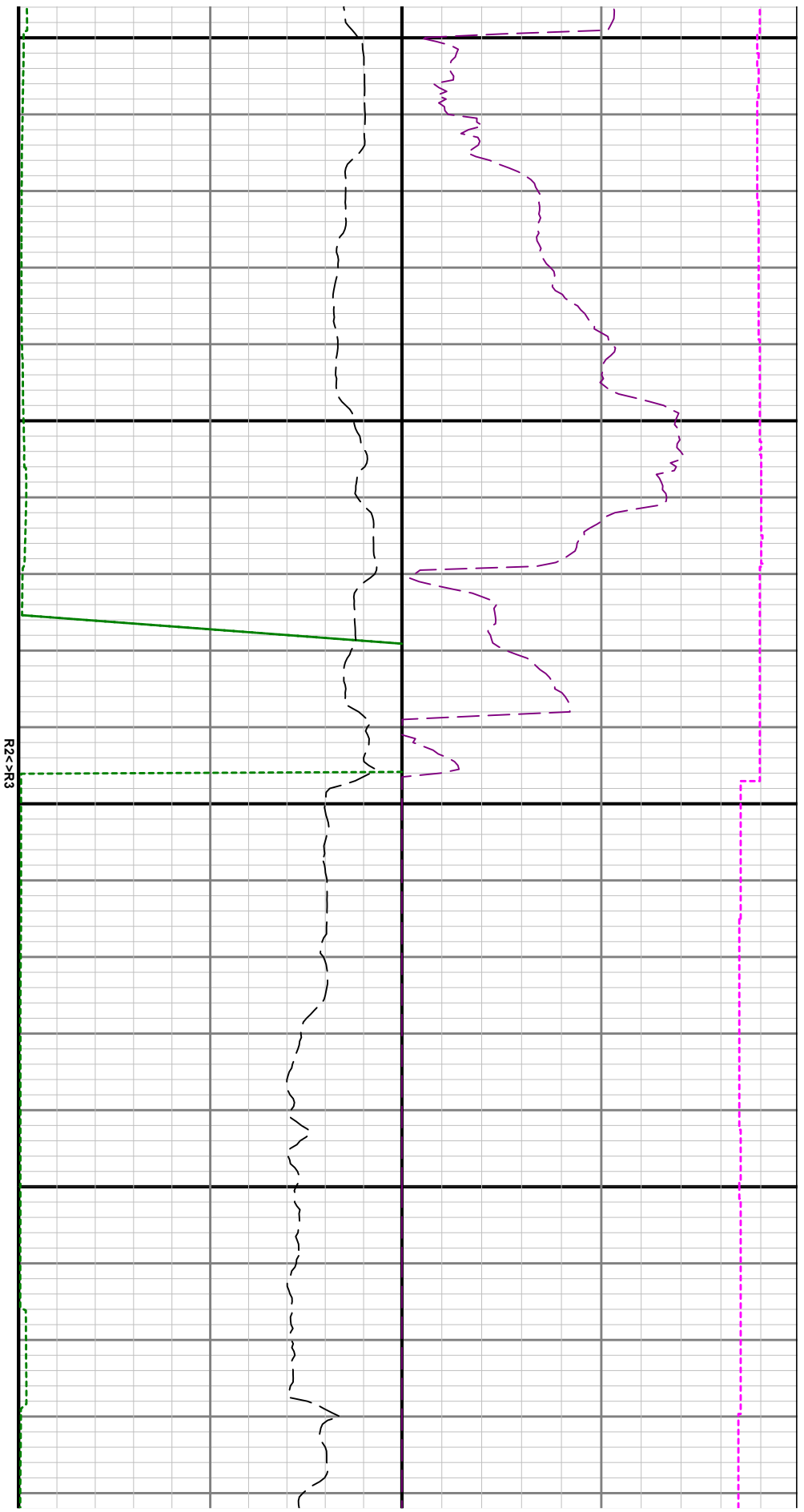
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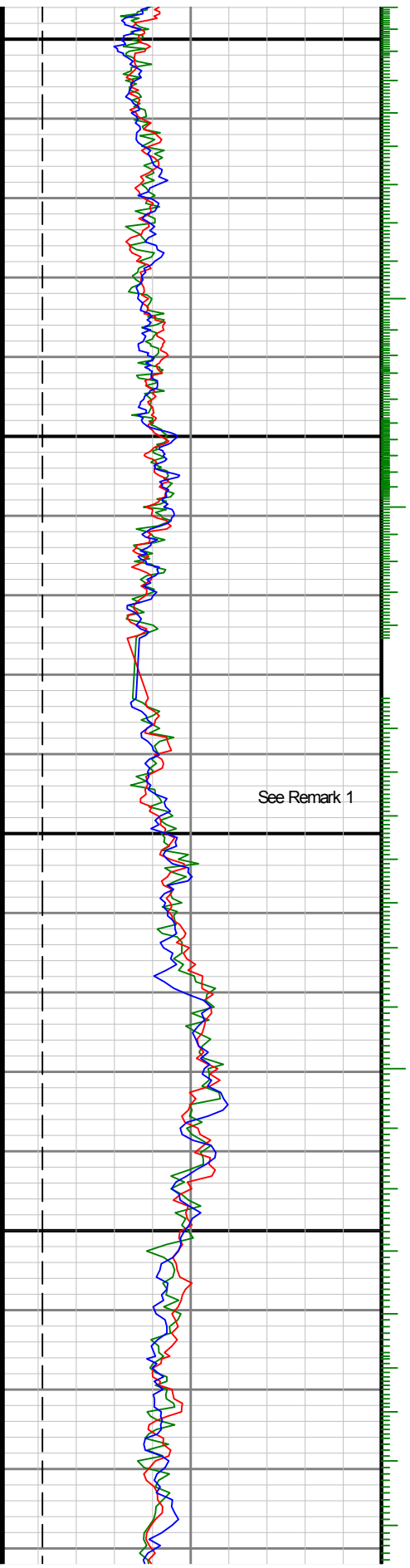


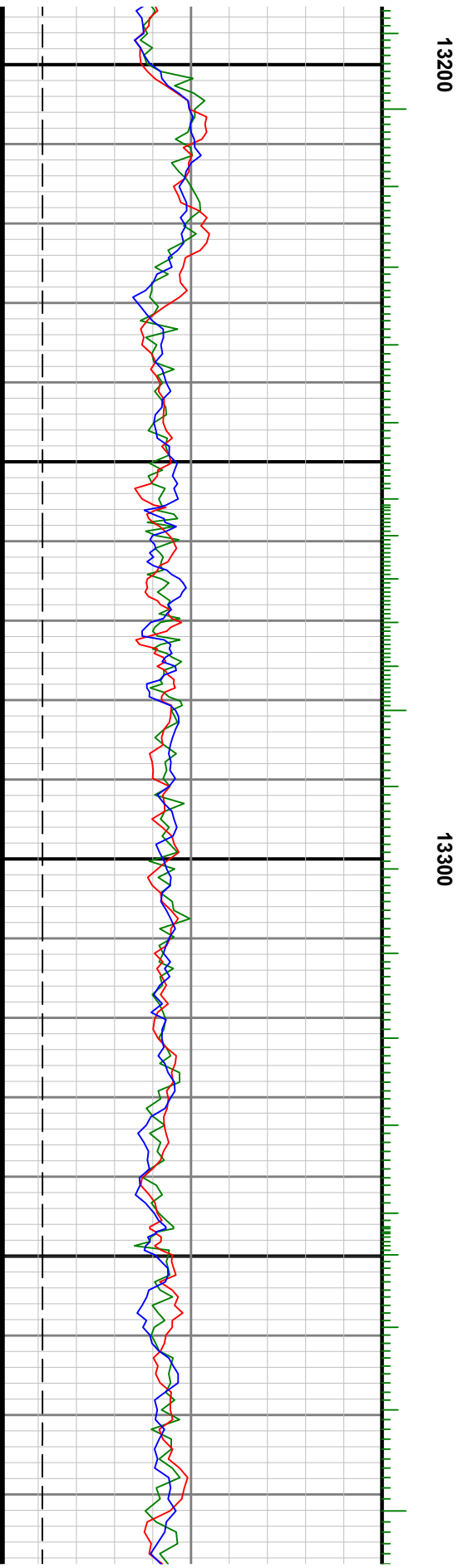
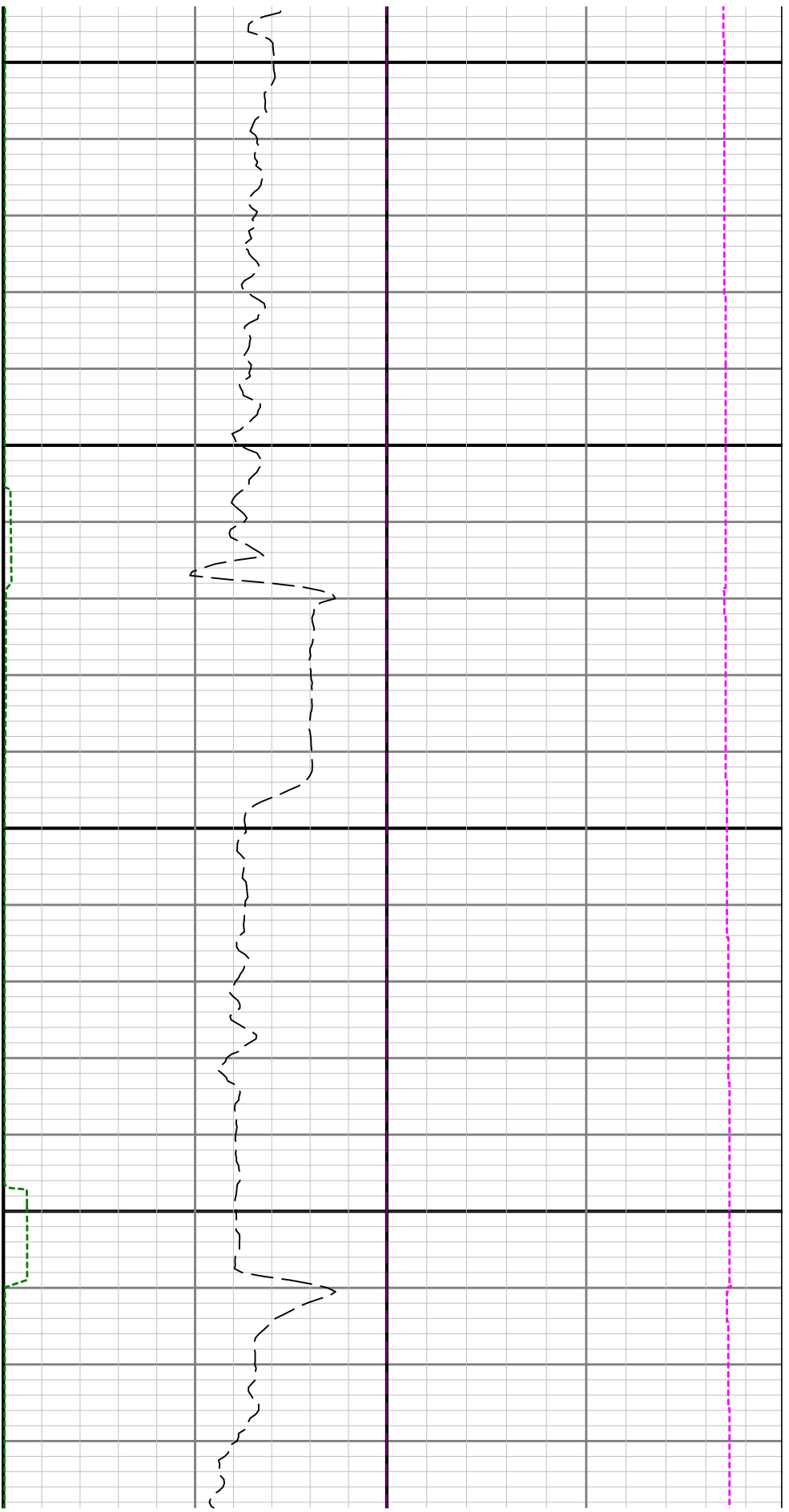
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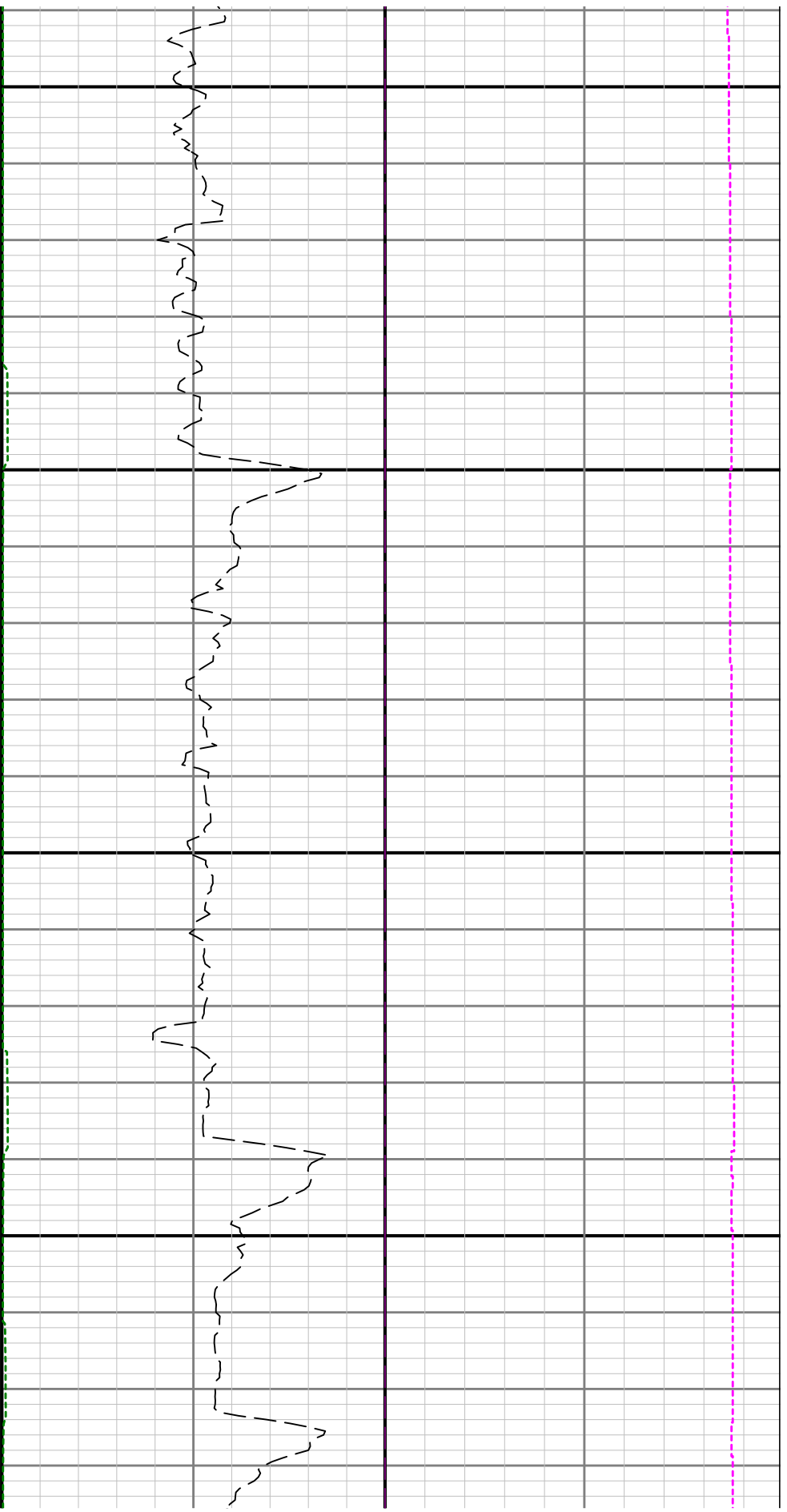
13100

R2<R3

See Remark 1







13400

13500

