



2017-08-29 17:30	2	5070.00	Diesel-Oil Based Mud	9.9	62	N/A	7.5	63/37	Active Pit	39500	0.00
2017-08-30 05:30	2	6874.00	Diesel-Oil Based Mud	9.9	65	N/A	7.5	63/37	Active Pit	40000	0.00
2017-08-30 17:30	3	7079.00	Diesel-Oil Based Mud	9.9	68	N/A	7.5	63/37	Active Pit	39000	0.00
2017-08-31 05:30	3	9023.00	Diesel-Oil Based Mud	10.1	68	N/A	7.5	63/37	Active Pit	42000	0.00
2017-08-31 17:30	3	11060.00	Diesel-Oil Based Mud	10.1	75	N/A	8.0	61/39	Active Pit	41500	0.00
2017-09-01 05:30	3	13460.00	Diesel-Oil Based Mud	10.1	76	N/A	8.0	61/39	Active Pit	45000	0.00
2017-09-02 05:30	3	17396.00	Diesel-Oil Based Mud	10.1	74	N/A	7.0	61/39	Active Pit	43500	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	14236914	Near Bit VSS	5.93	6.70	6.750	4.330
2	ATC_SU	14236914	Near Bit Inclination	5.93	6.70	6.750	4.330
2	ATC_MWD	14146739	Gamma (single)	2.73	12.84	6.750	3.250
2	ATC_MWD	14146739	Directional (mag)	12.26	22.37	6.750	3.250
3	ATC_SU	14236914	Near Bit VSS	5.93	6.70	6.750	4.330
3	ATC_SU	14236914	Near Bit Inclination	5.93	6.70	6.750	4.330
3	ATC_MWD	14146739	Gamma (single)	2.73	12.84	6.750	3.250
3	ATC_MWD	14146739	Directional (mag)	12.26	22.37	6.750	3.250

Service and Tool Mnemonics

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 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.

2

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 1734 to 17396 feet MD (1721 to 7265 feet TVD).

Remarks

Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	1734.00	8.500	2	Baker Hughes LWD began logging services at 1734 feet MD (1721 feet TVD) per client request.
2	6865.00	8.500	3	The interval from 6861 to 6874 feet MD (6821 to 6833 feet TVD) was logged up to 11 hours after drilling due to tripping for a new AutoTrak Curve tool failure.
3	17385.00	8.500	3	The interval from 17383 to 17396 feet MD (7265 feet TVD) was not logged due to sensor to bit offset at well TD.

Curve Mnemonics

Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	OnTrak - Gamma Ray - Apparent - Memory 0.5 ft Average	API
GRIM	OnTrak - Gamma Ray - Data Point Indicator - Memory	unitless
GRTM	OnTrak - Gamma Ray - Time Since Drilled - Memory	min
GRADM	OnTrak - Gamma Ray - Apparent - Down Quadrant - Memory 0.5 ft Average	API
GRAUM	OnTrak - Gamma Ray - Apparent - Up Quadrant - Memory 0.5 ft Average	API
TCDM	Downhole Temperature	degF

BAKER HUGHES

a GE company

Company

Well

Interval

Created

Verdad Oil & Gas

BRNAK 01N-64W-10-3H

Date From:

2017-08-11 19:51:25

Top:

1700.00

Date To:

2017-09-01 21:59:19

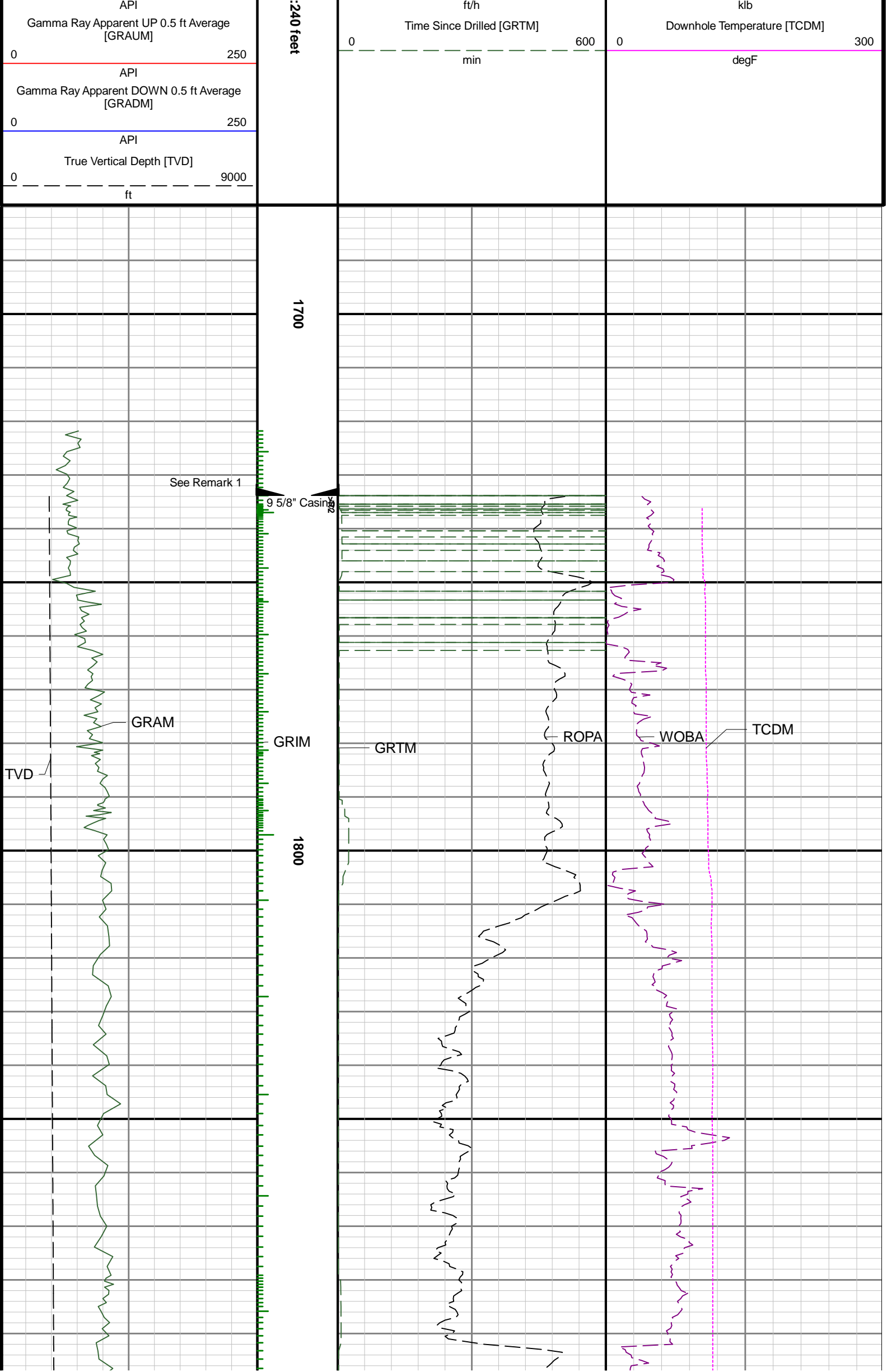
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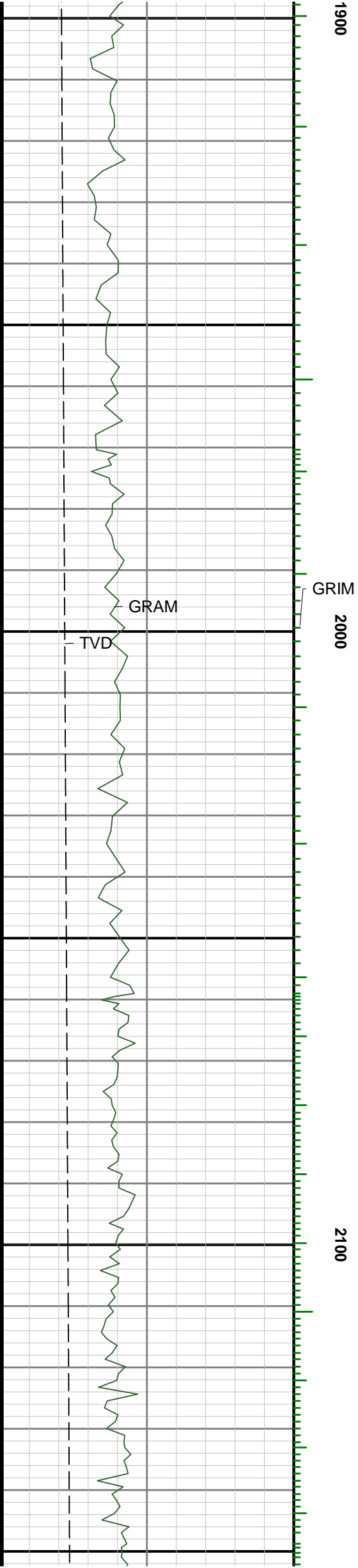
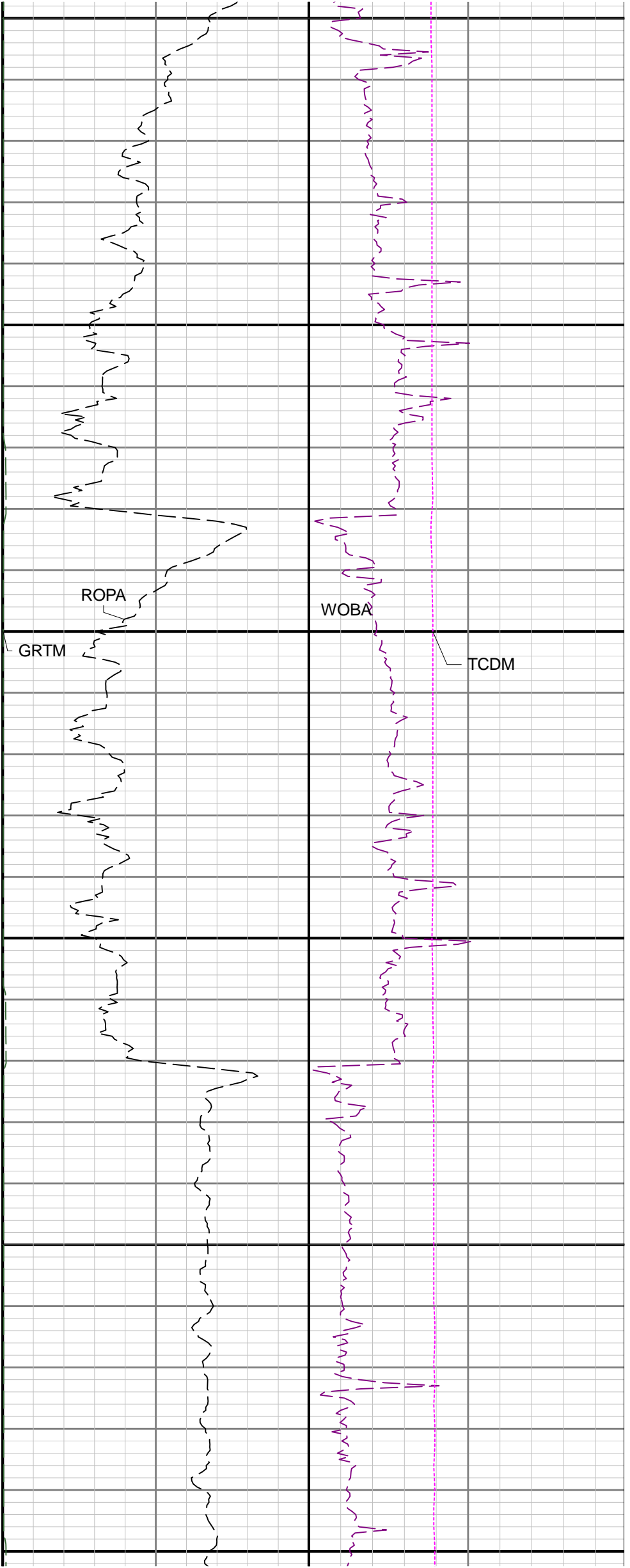
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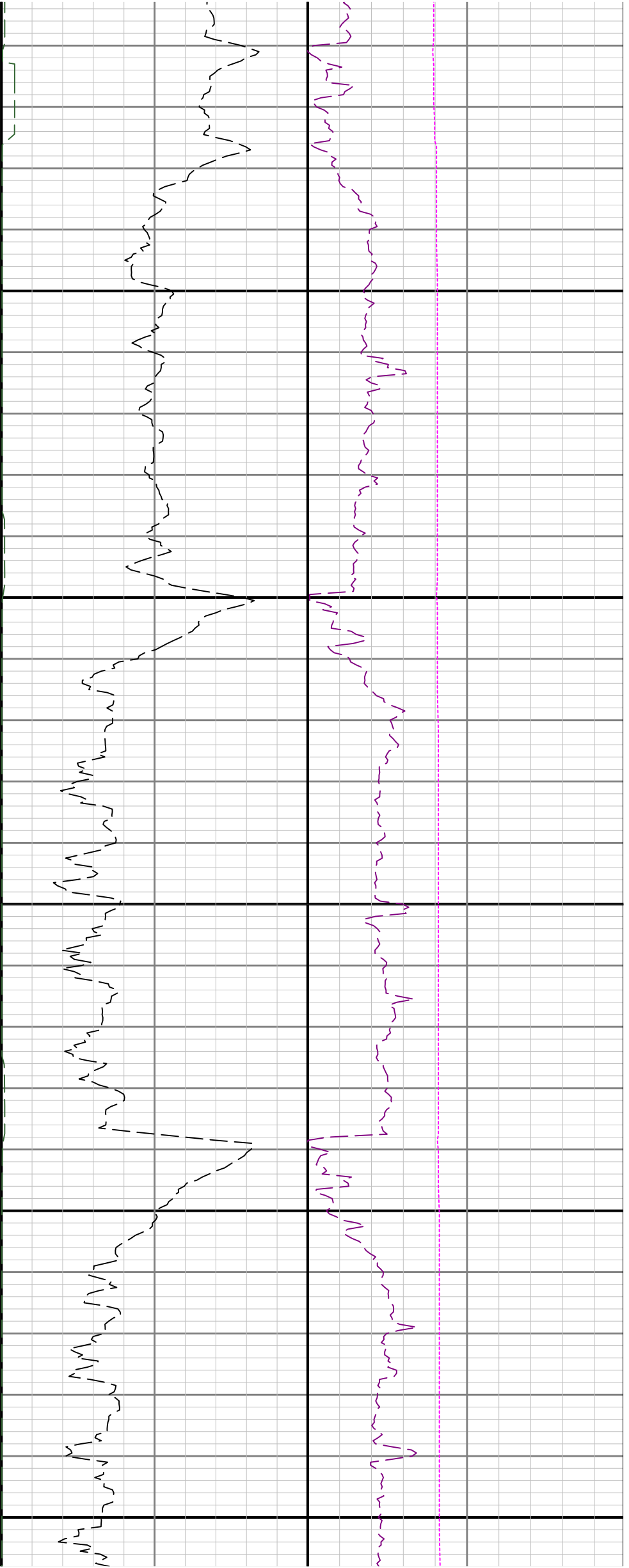
2017-09-05

22:13:55

Gamma Ray Apparent 0.5 ft Average [GRAM]	MD 1	Depth Averaged ROP 3 ft Average [ROPA]	Weight On Bit 1 ft Average [WOBA]
0250		120000	050



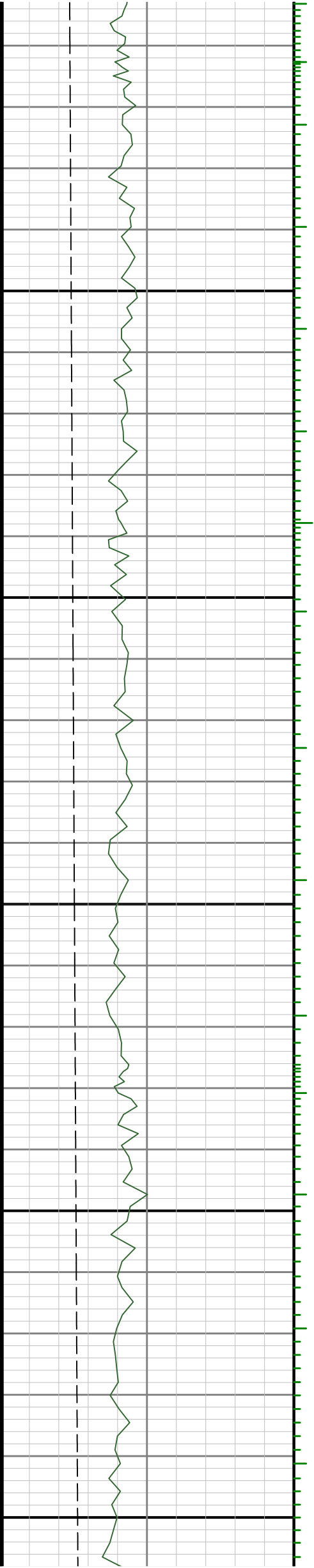


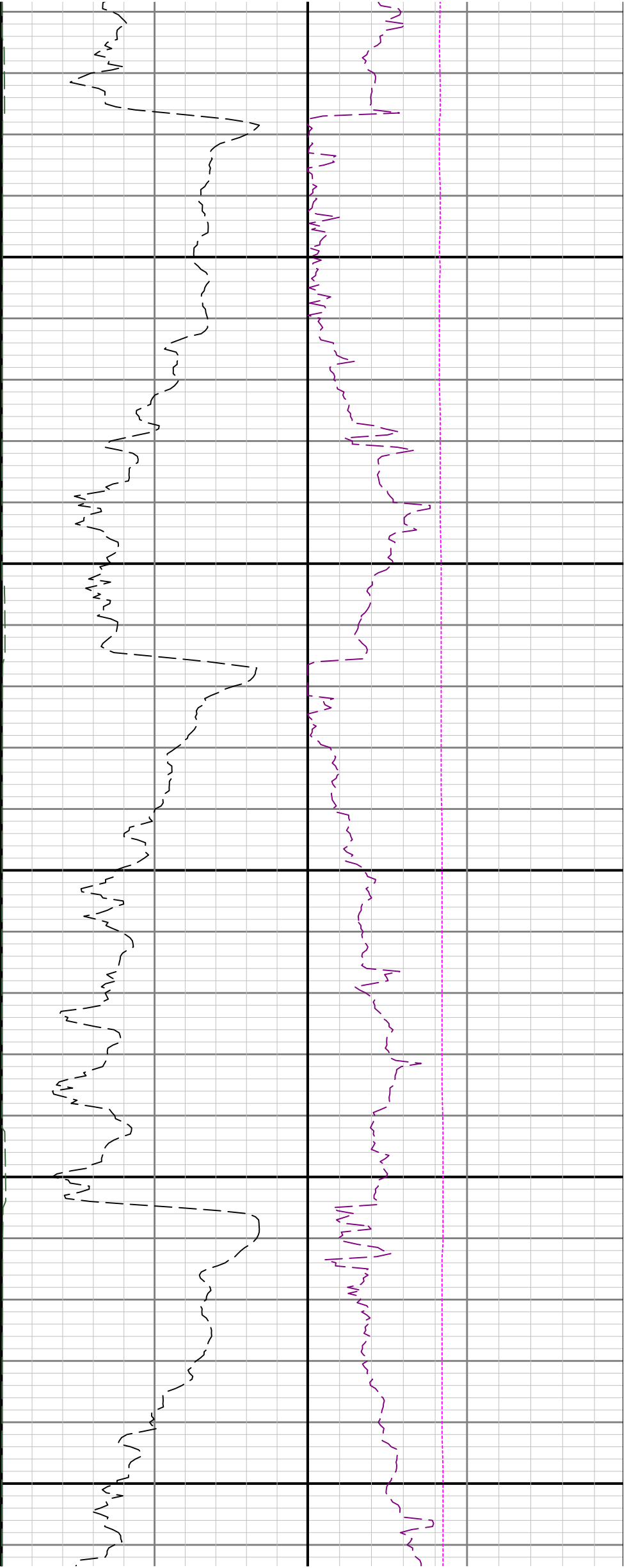


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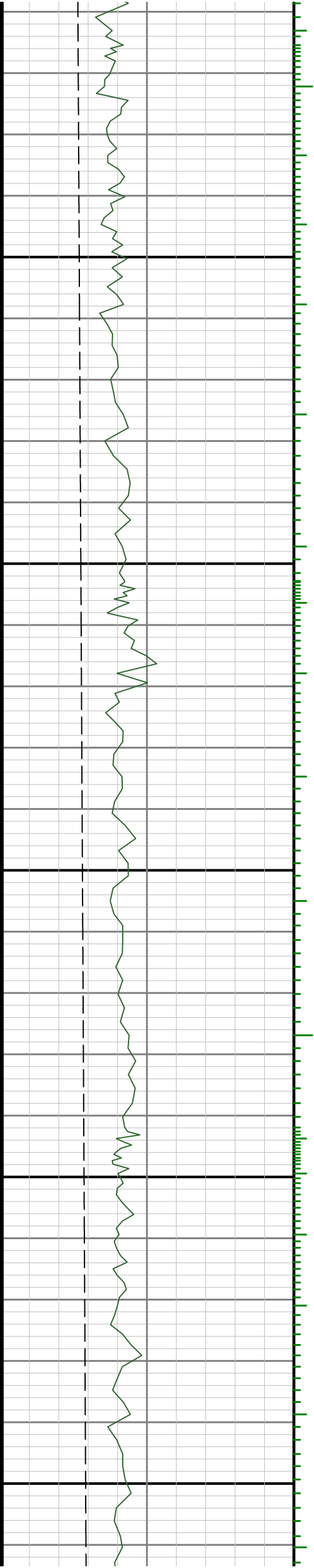
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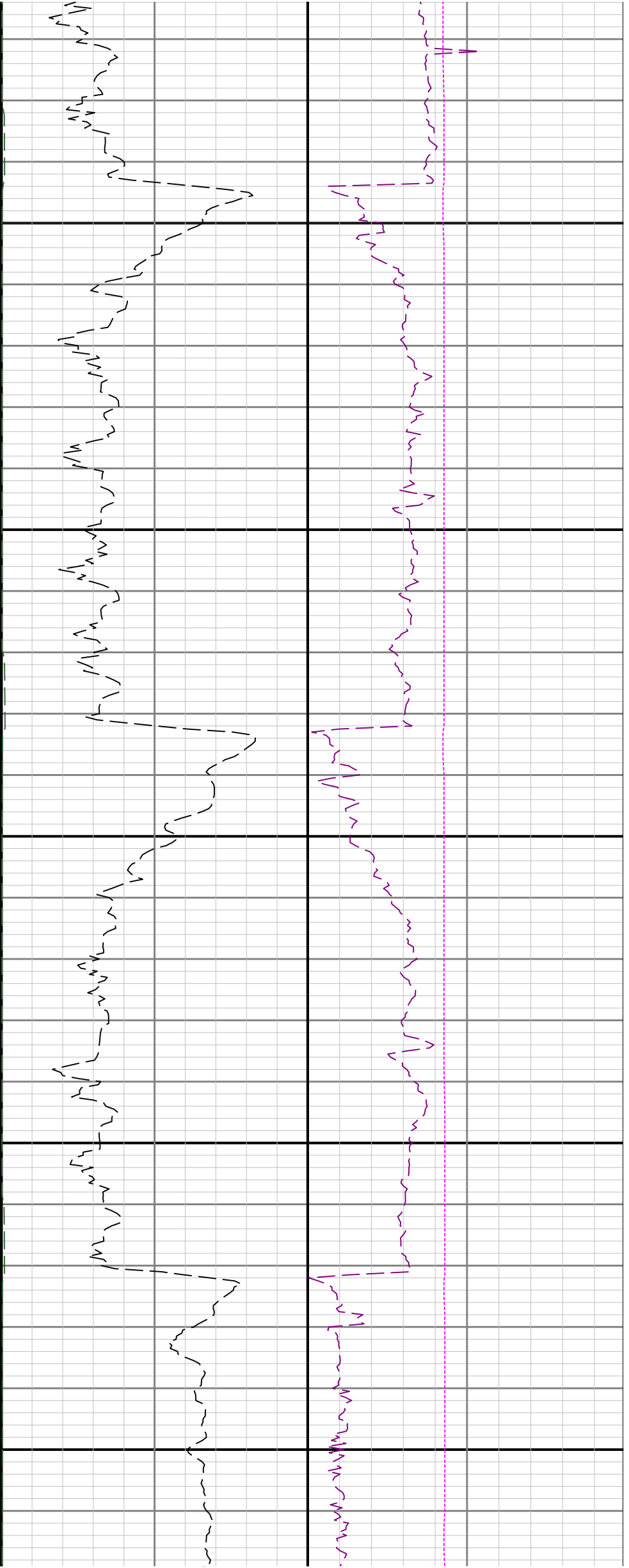




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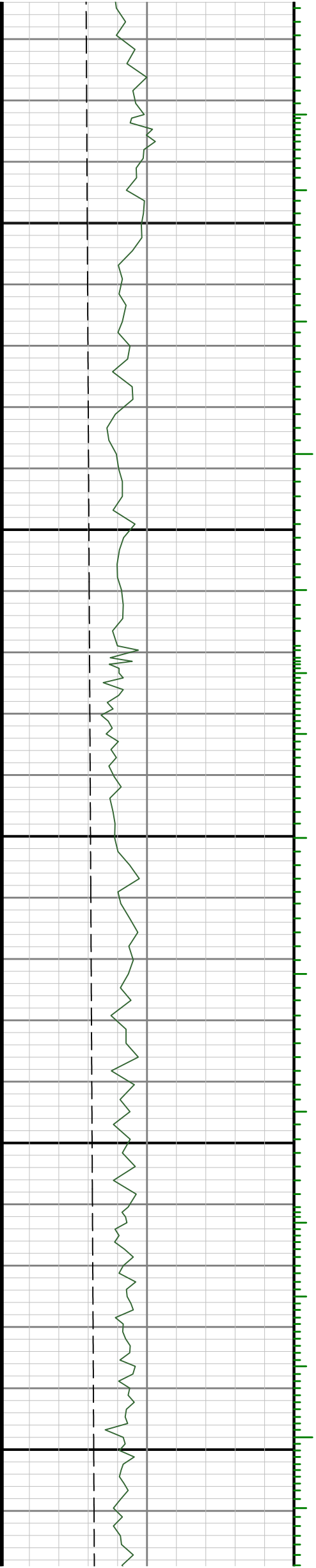


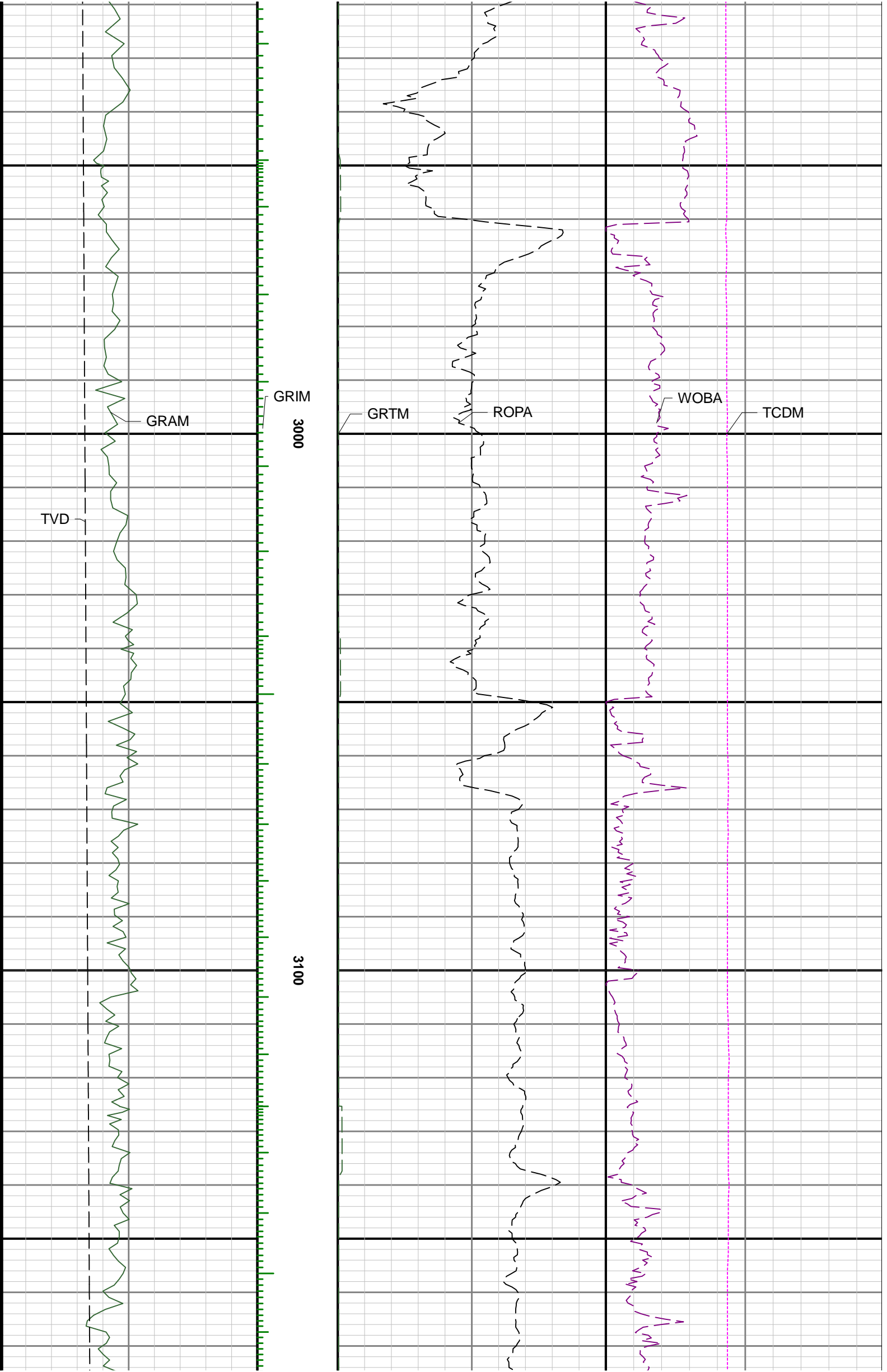


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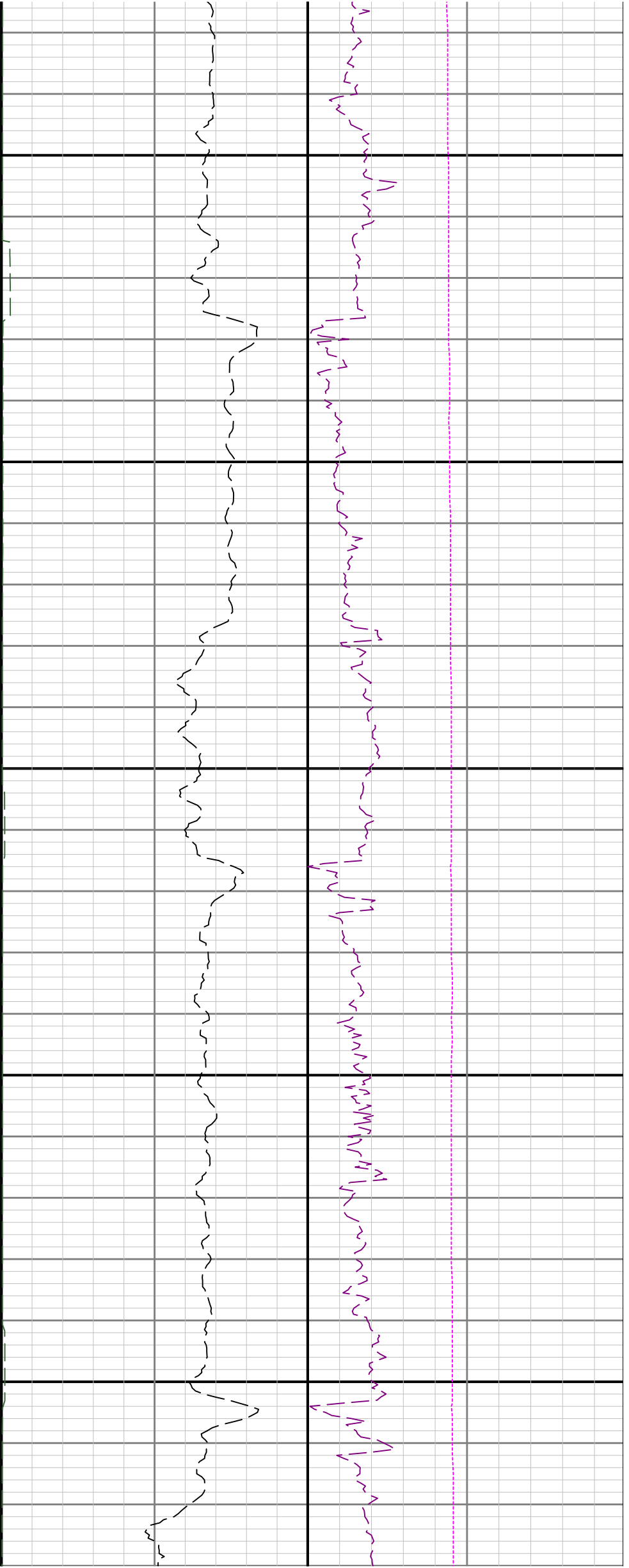
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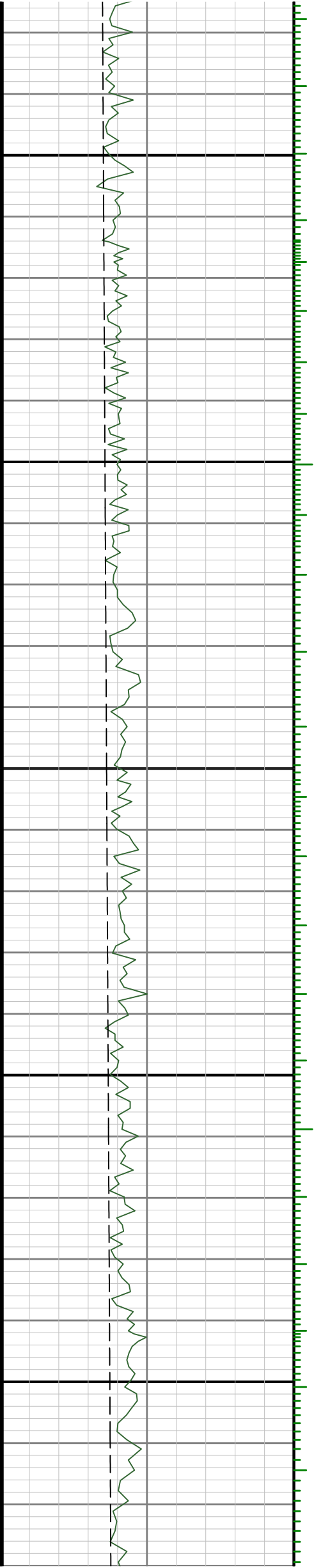


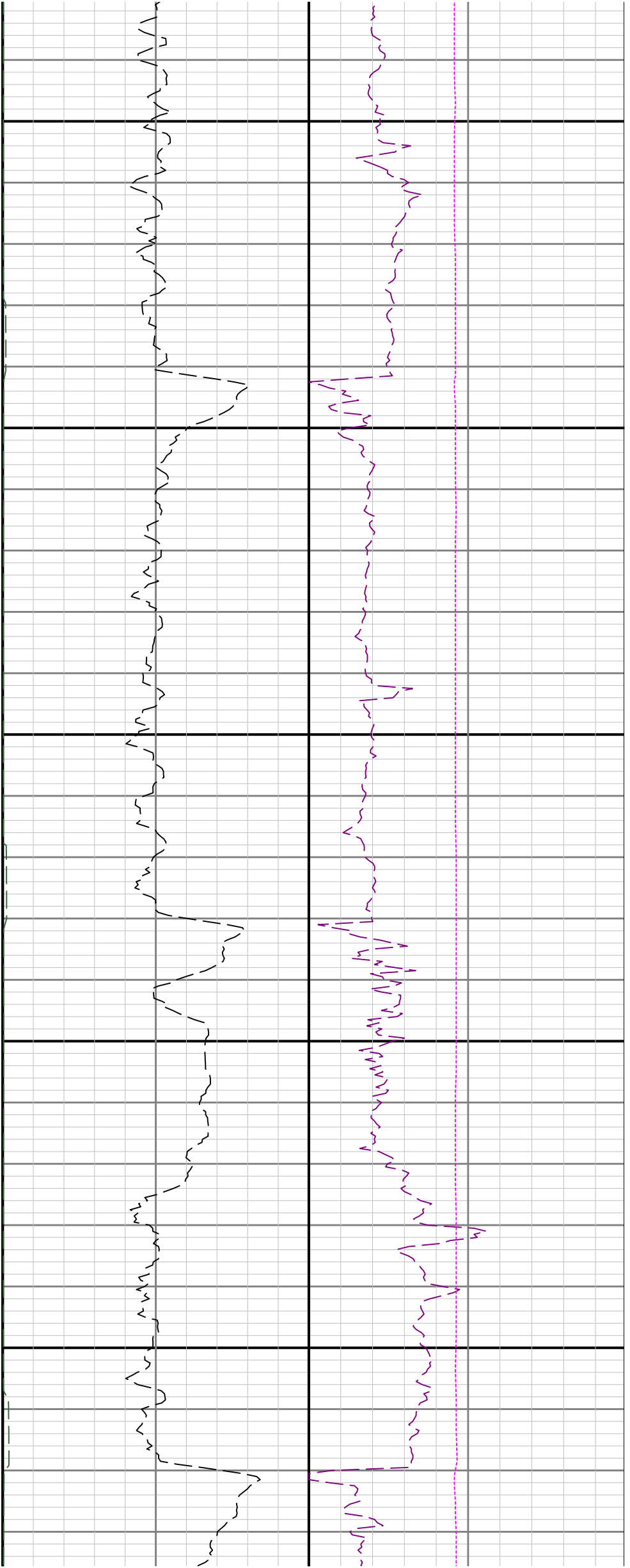


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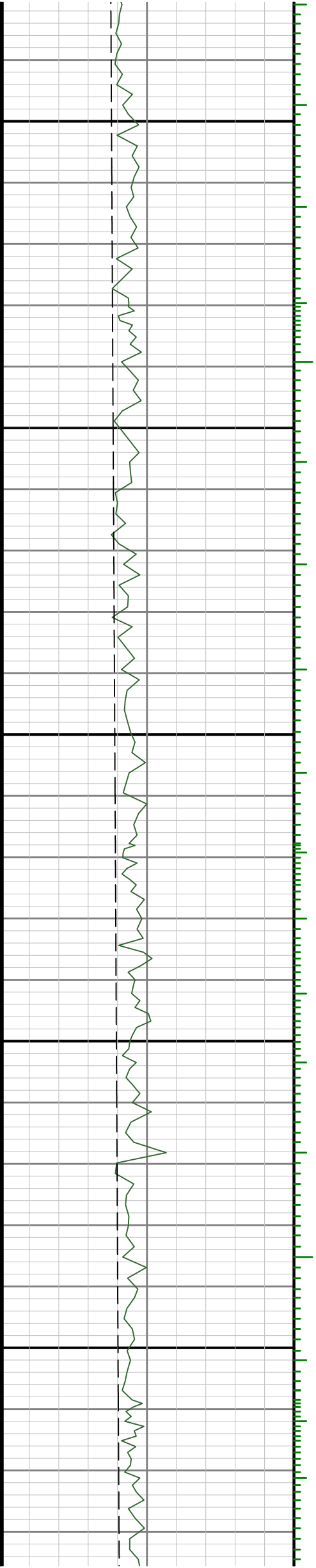
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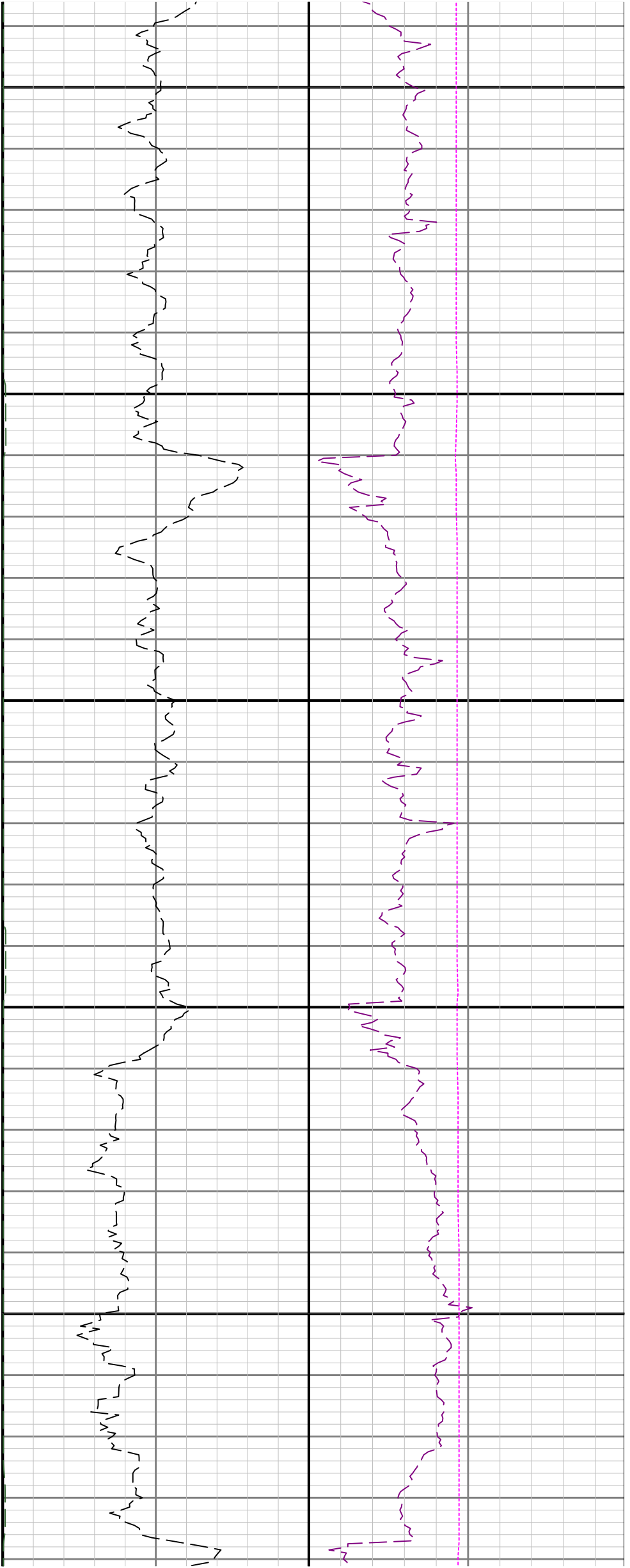




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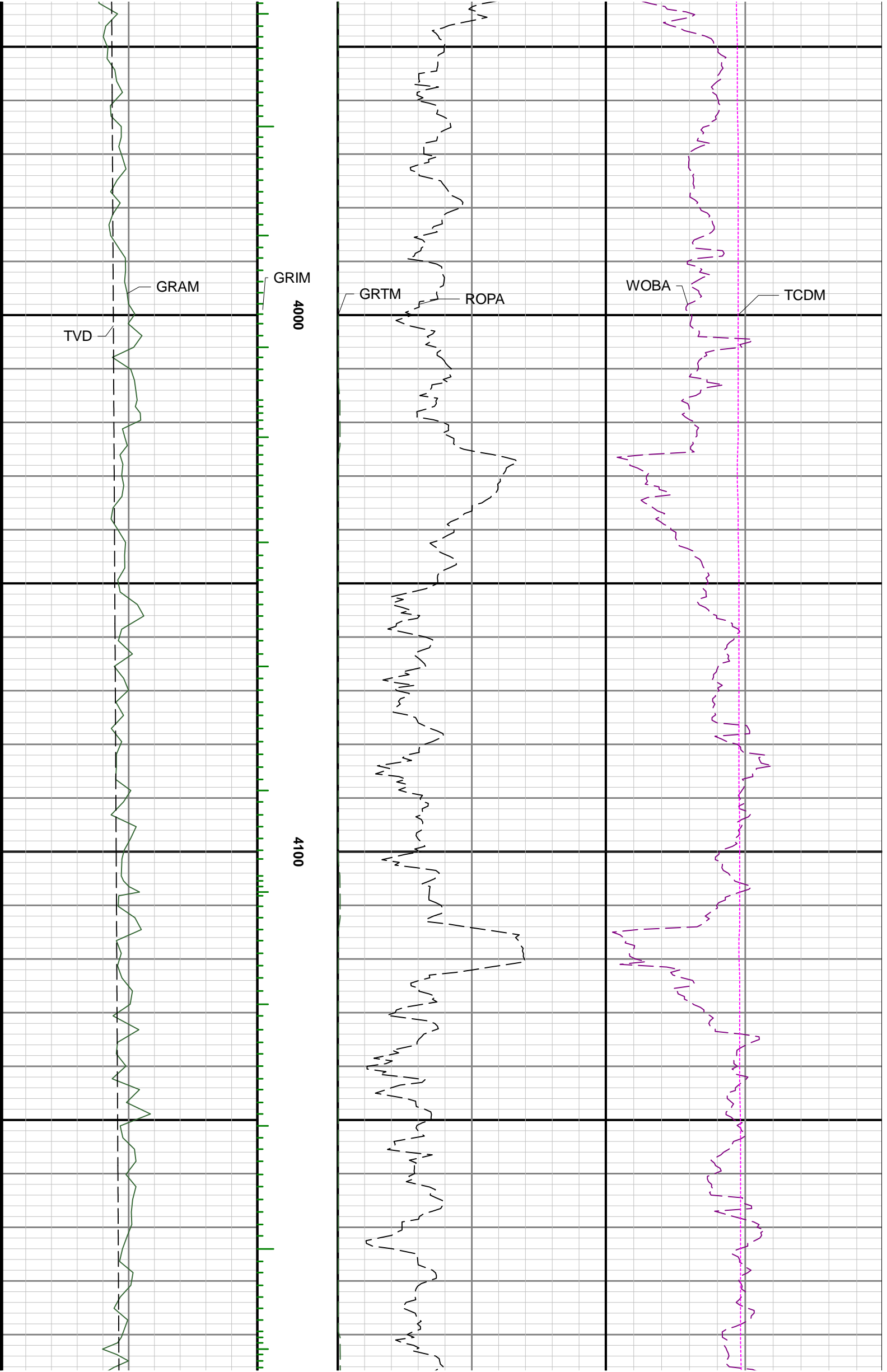


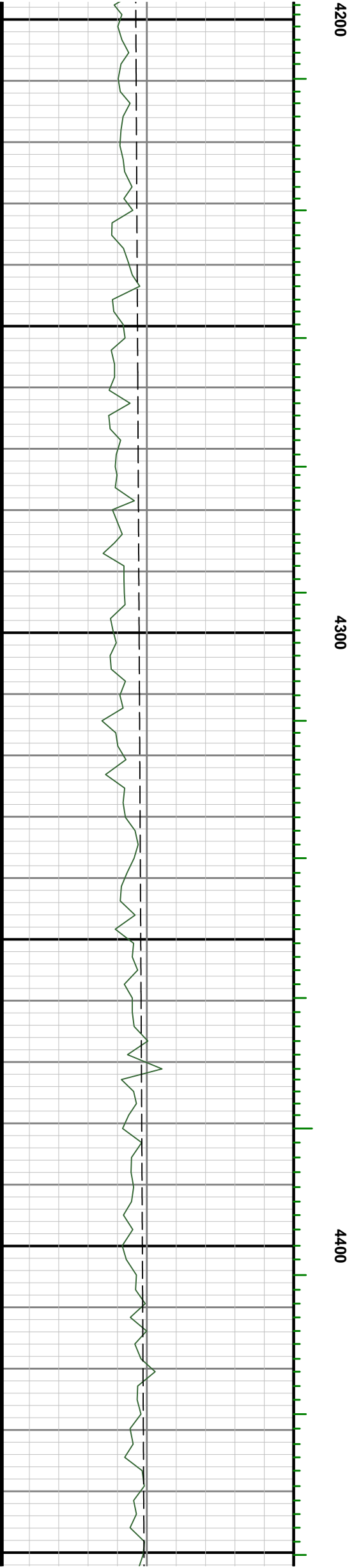
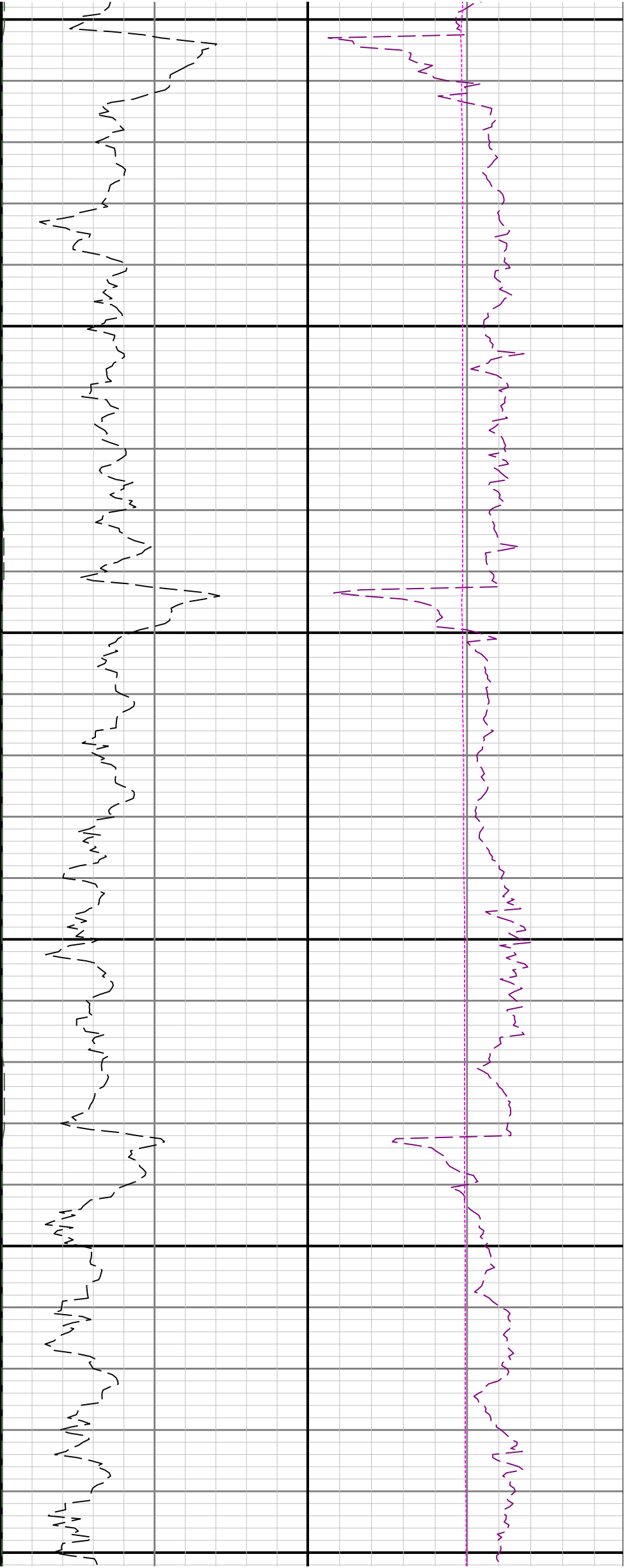


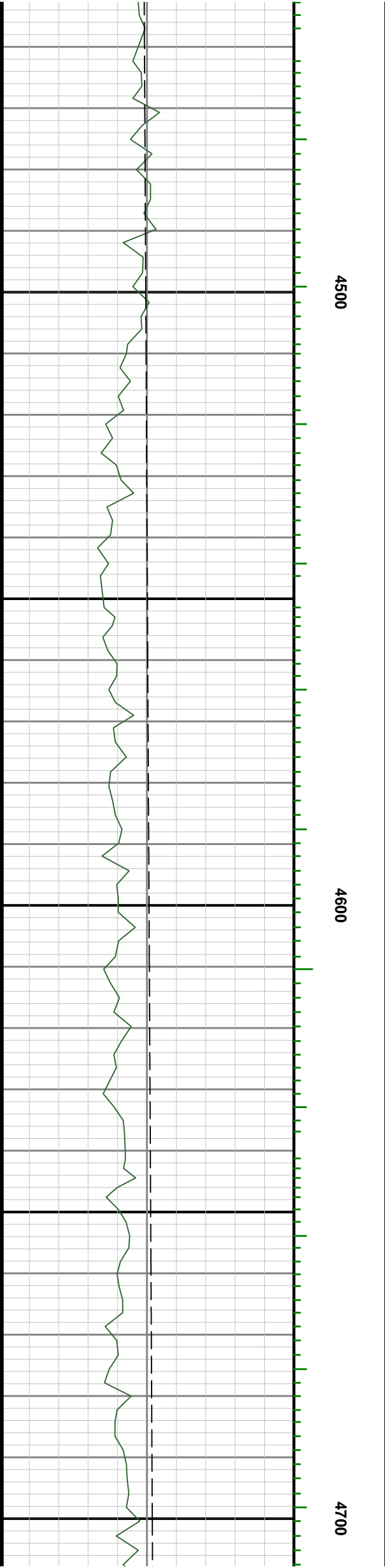
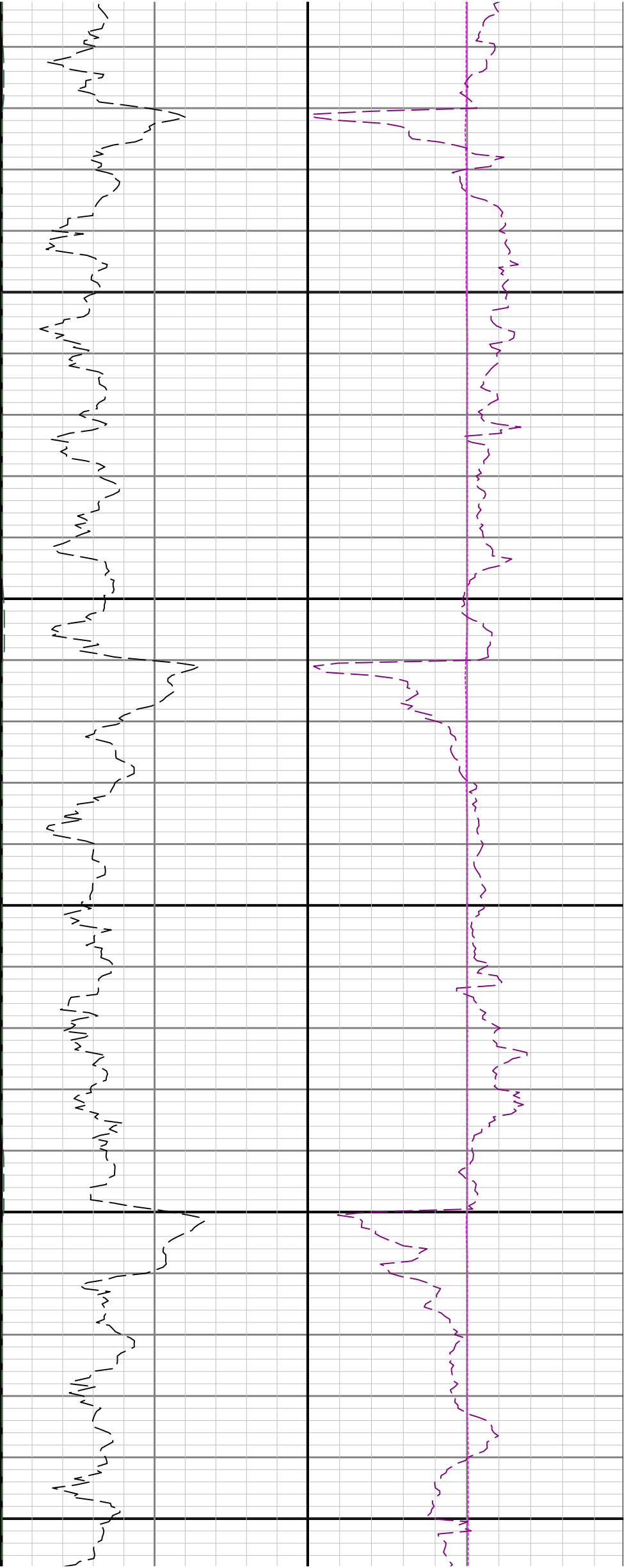
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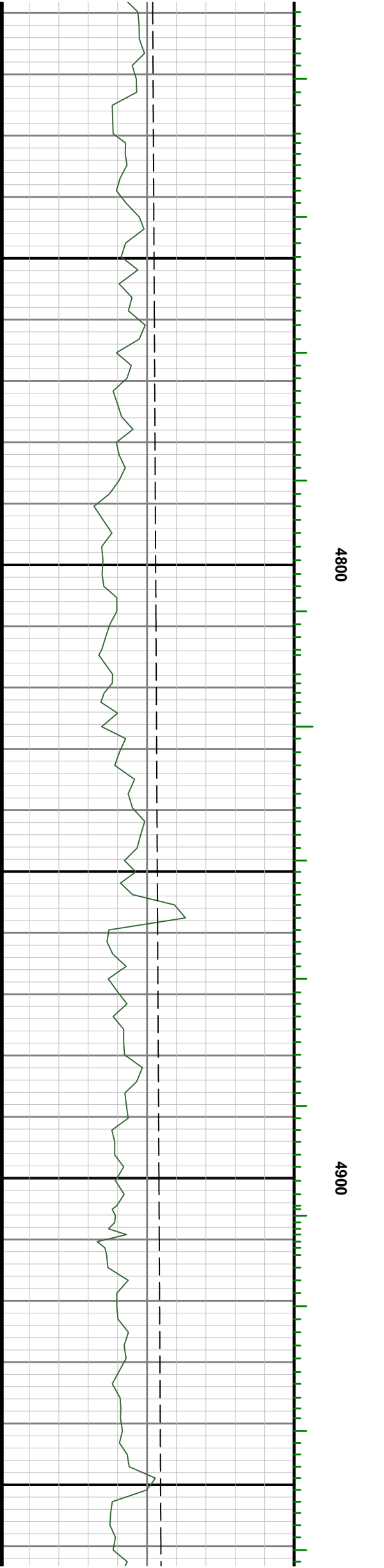
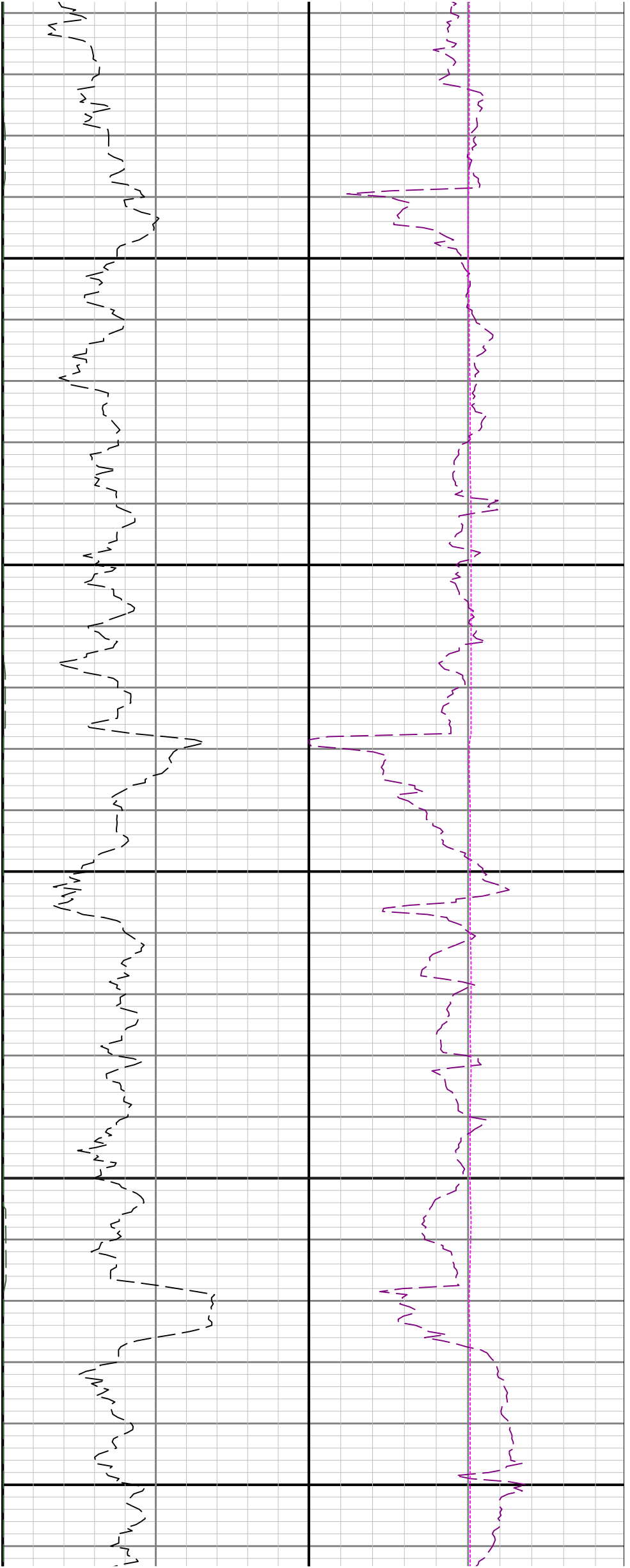
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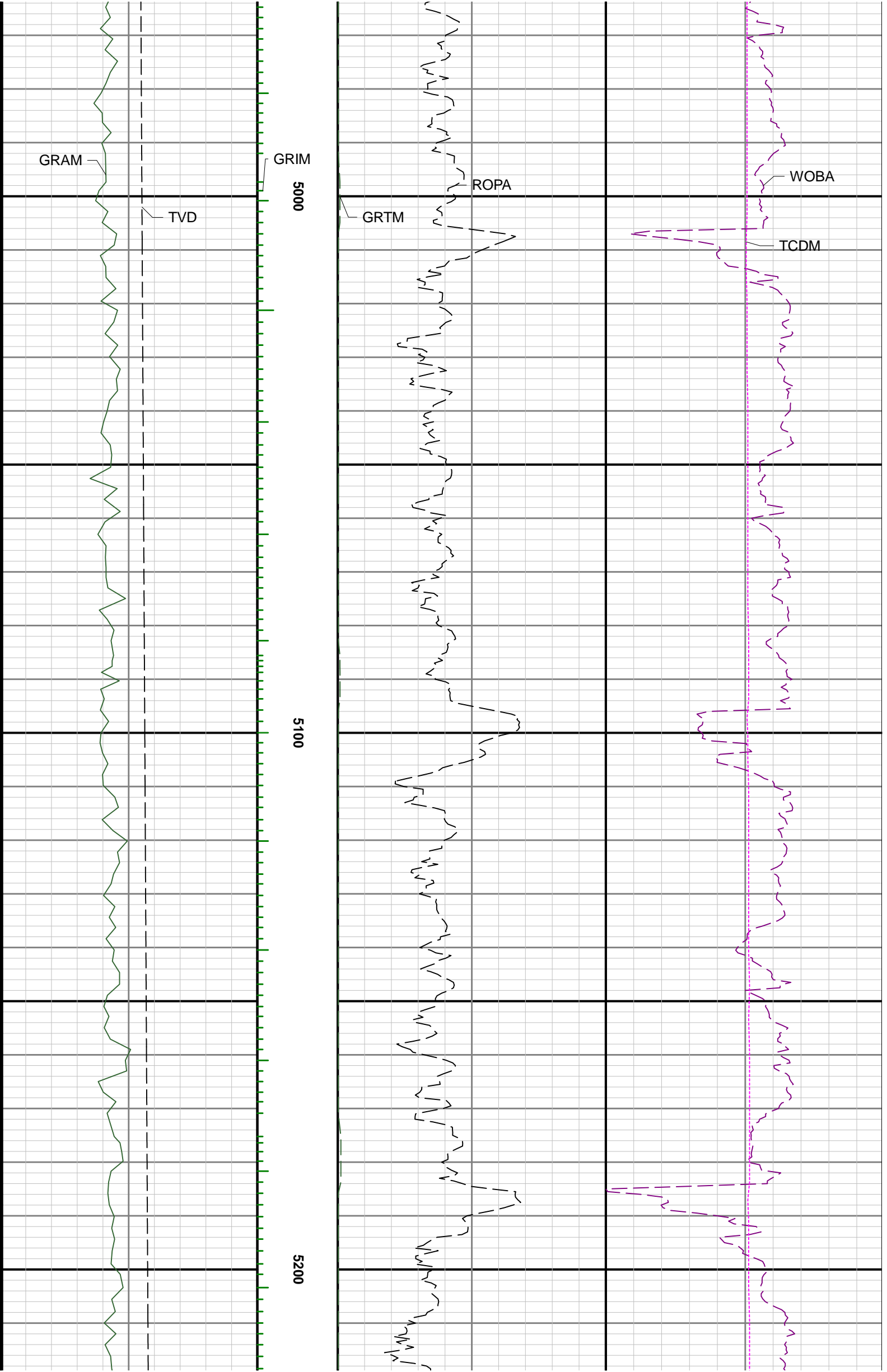
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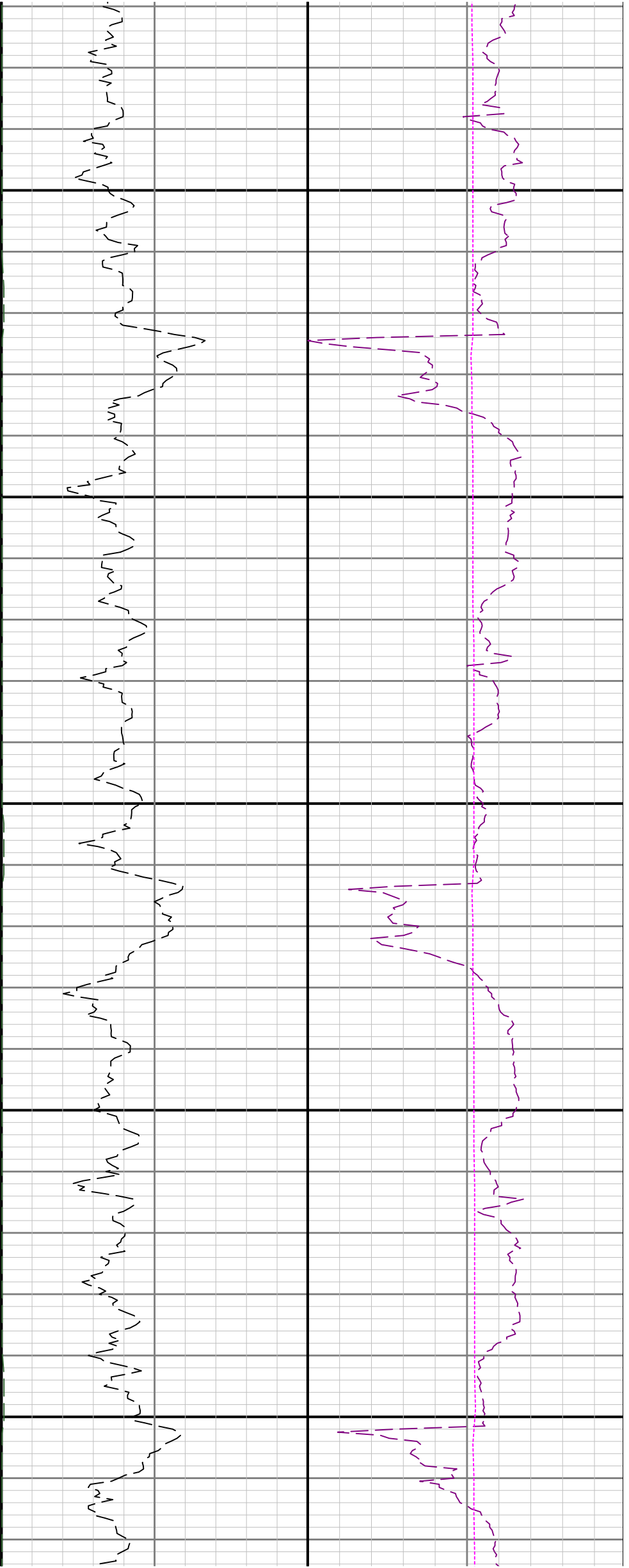






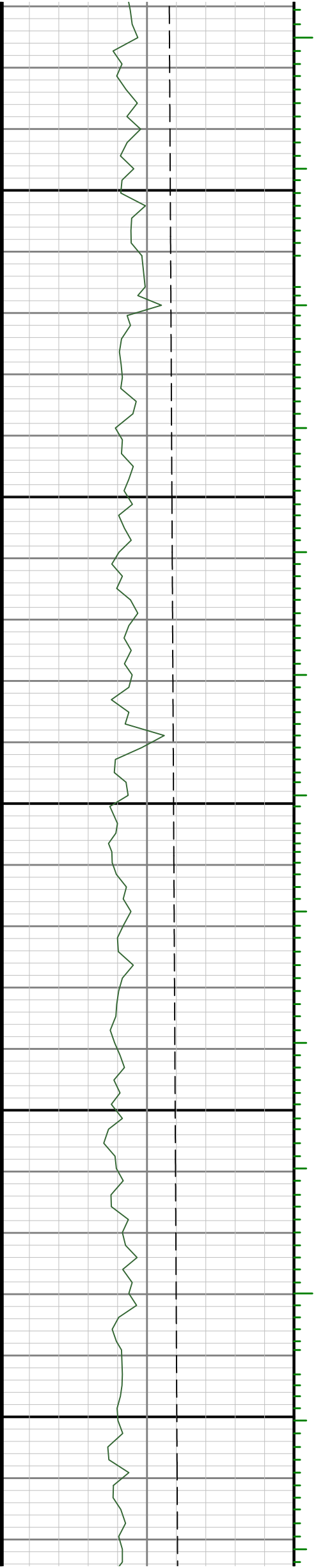


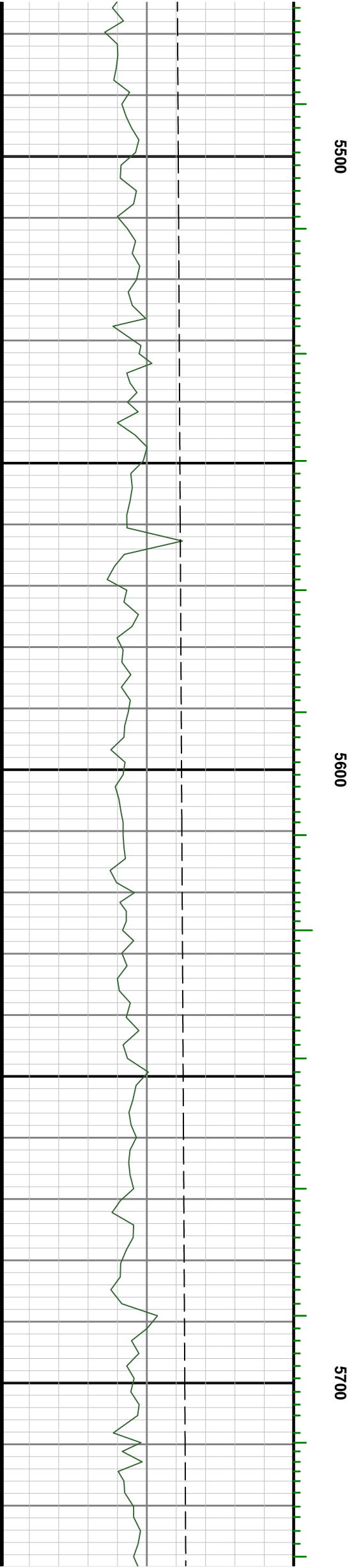
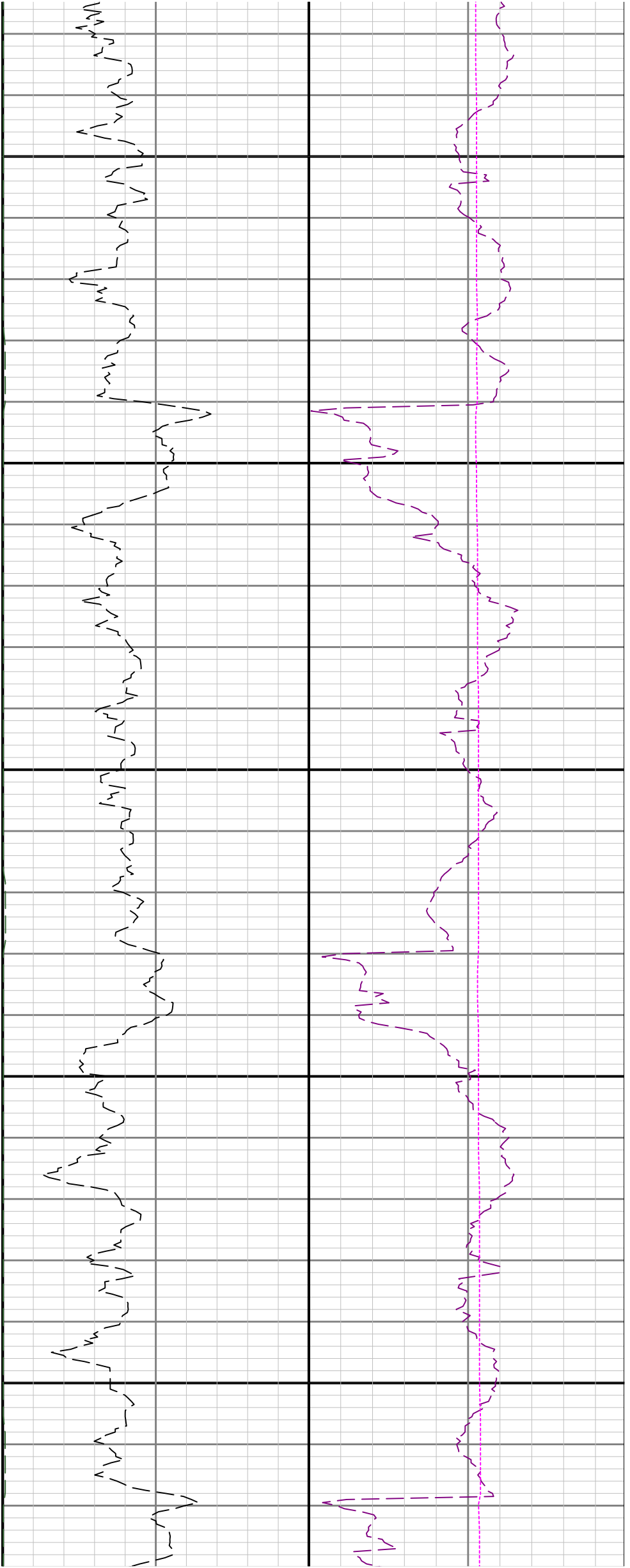


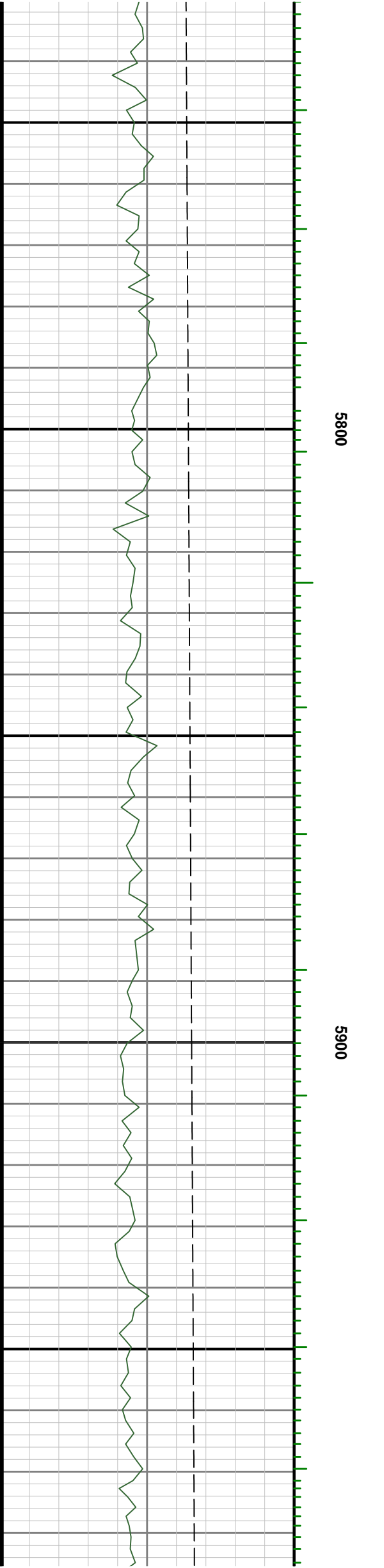
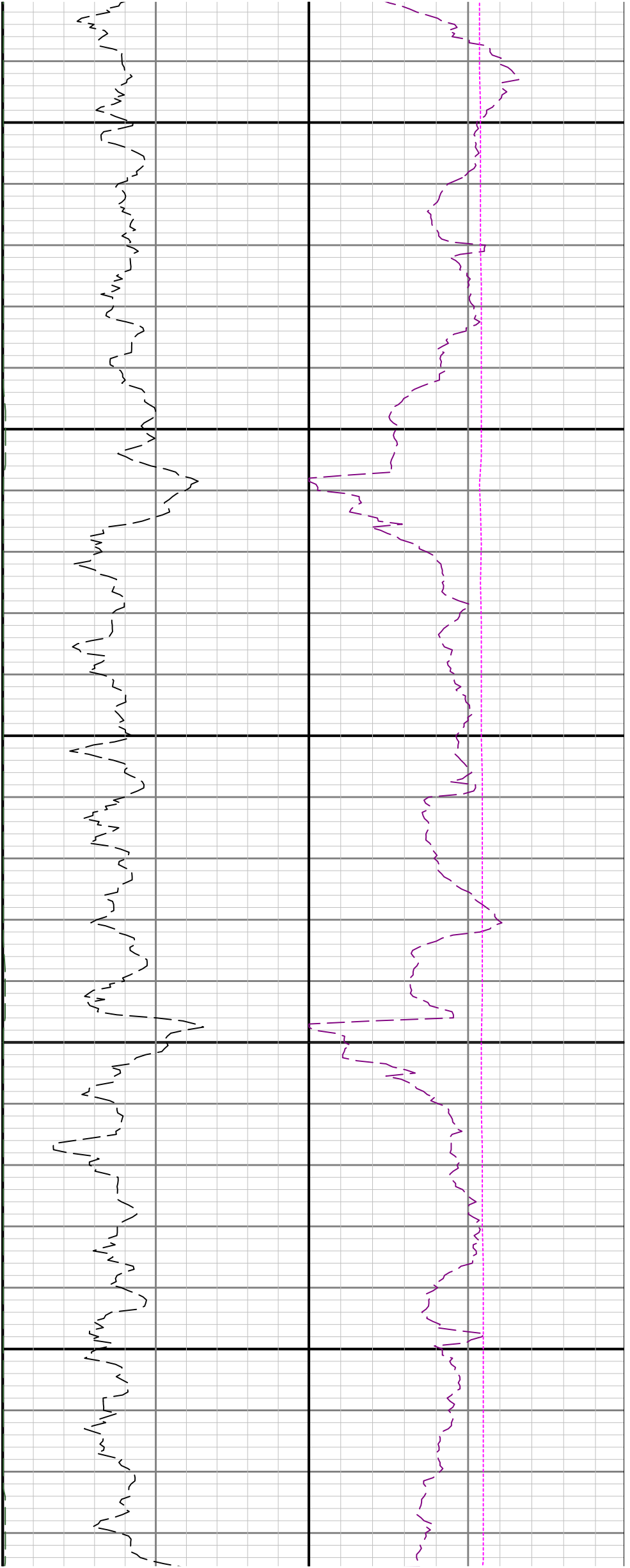


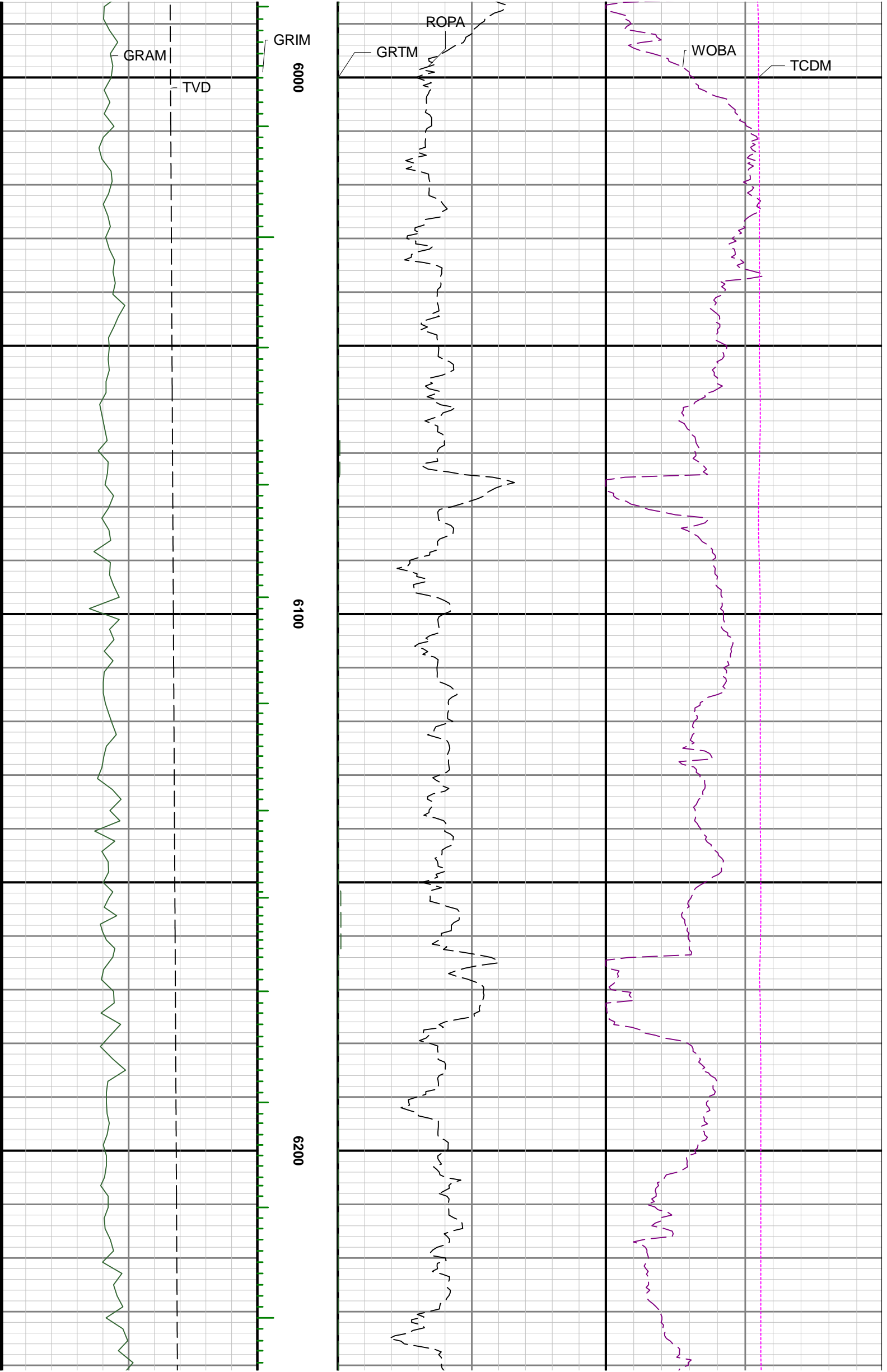
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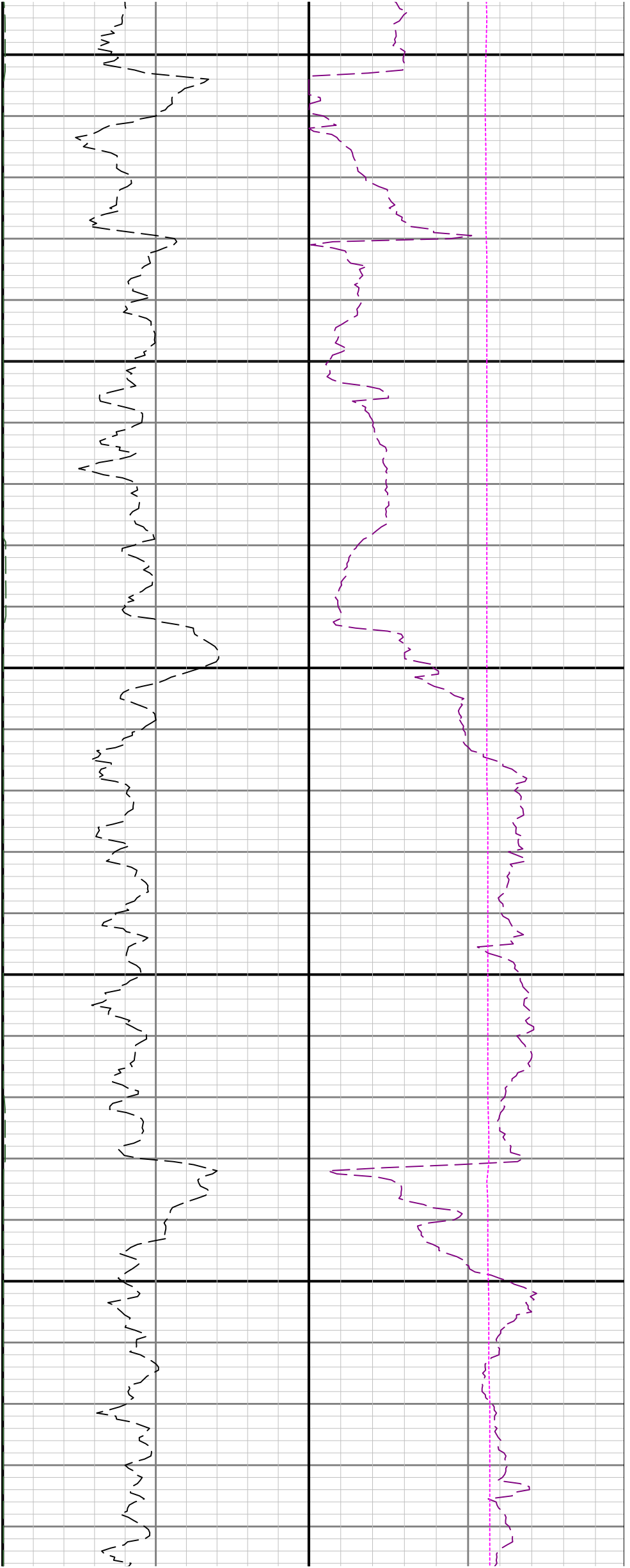
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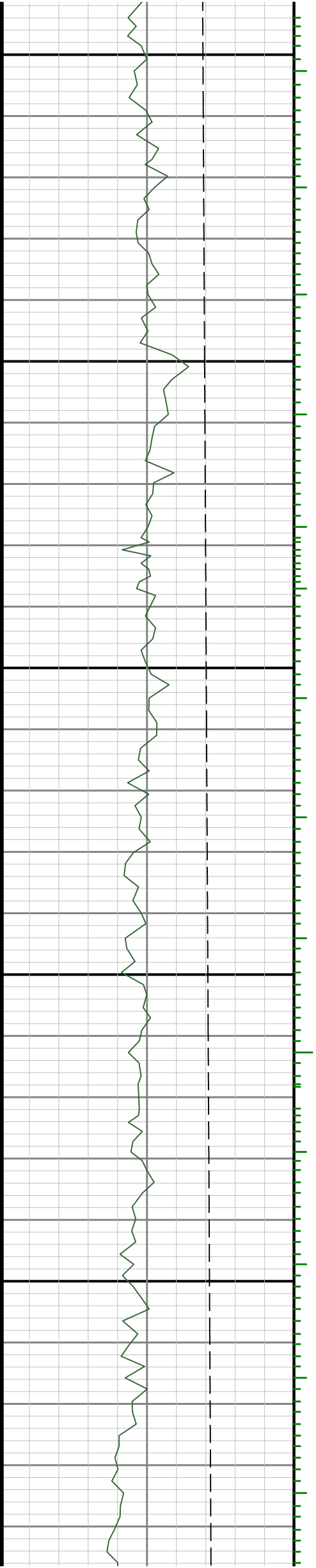


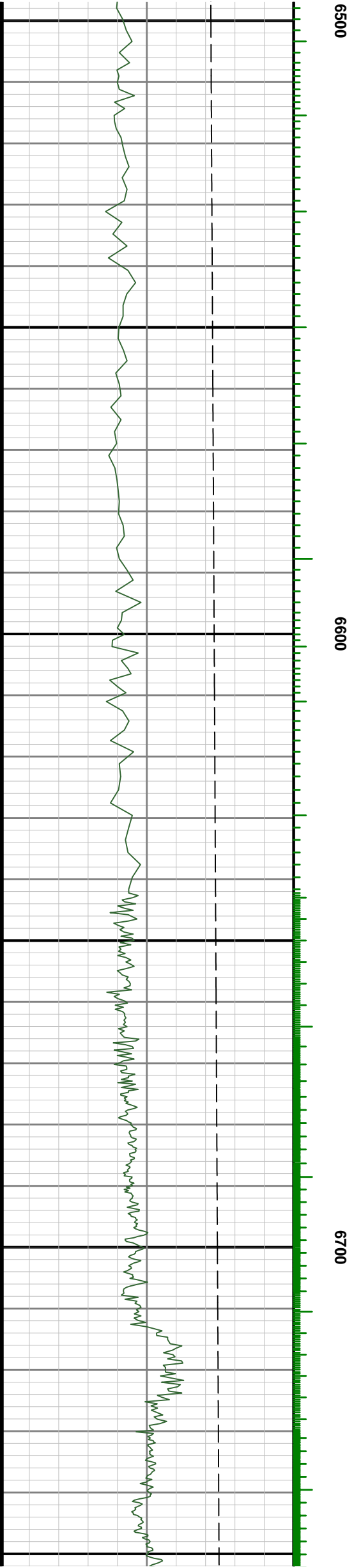
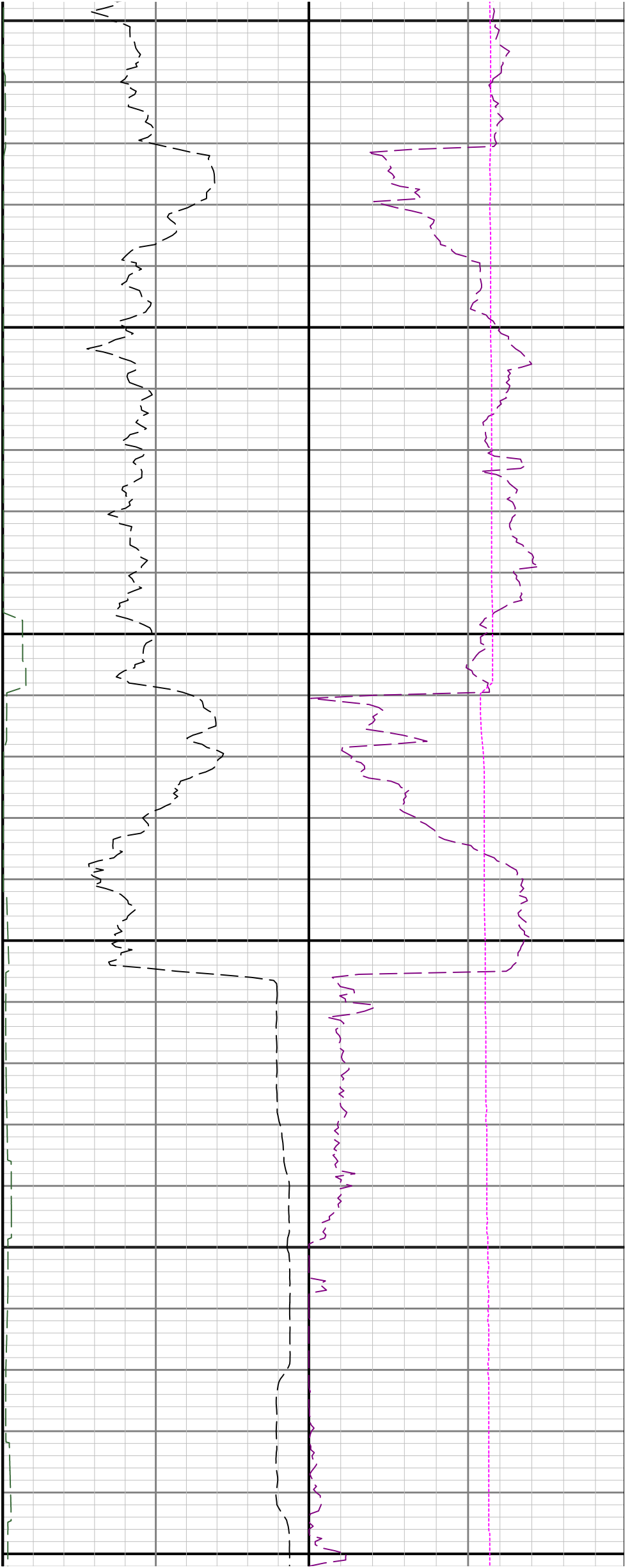


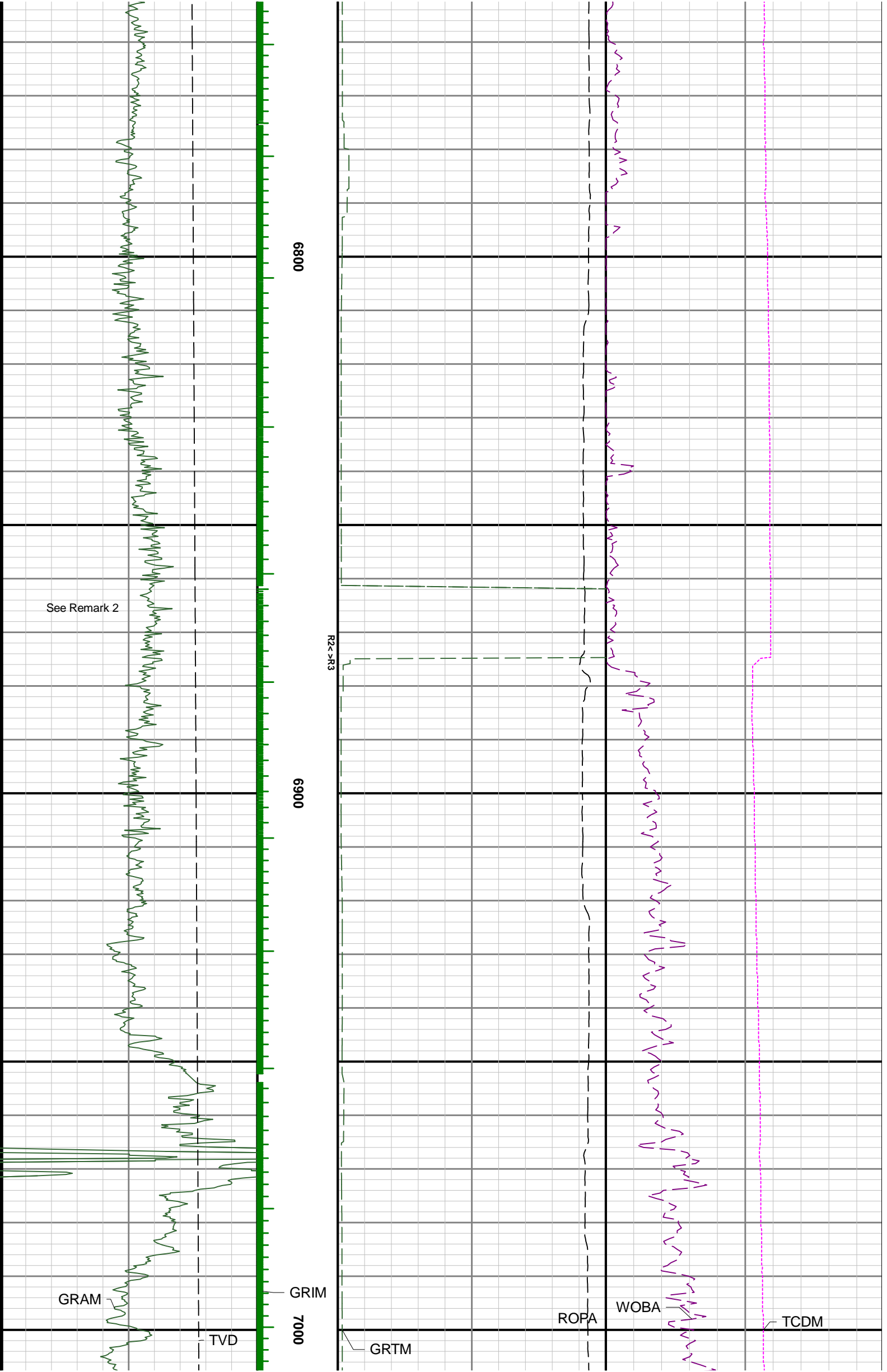


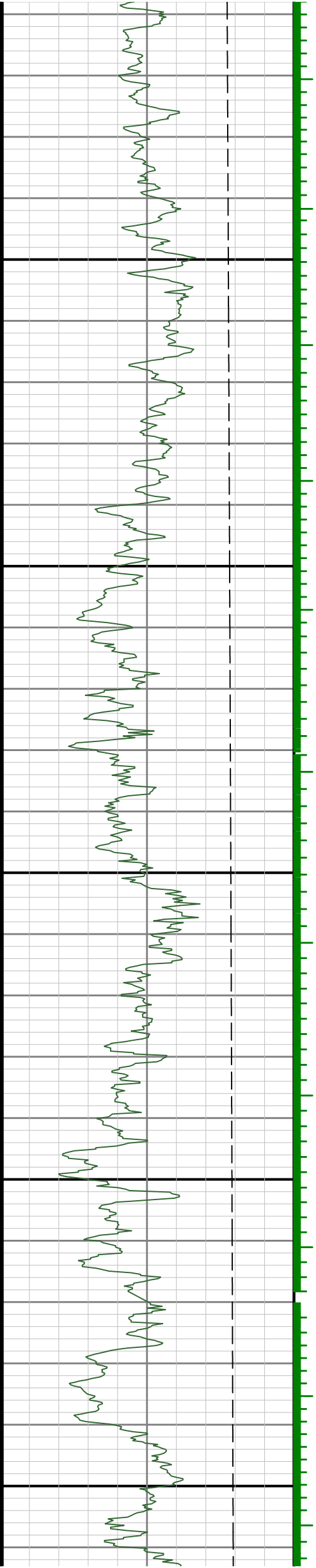
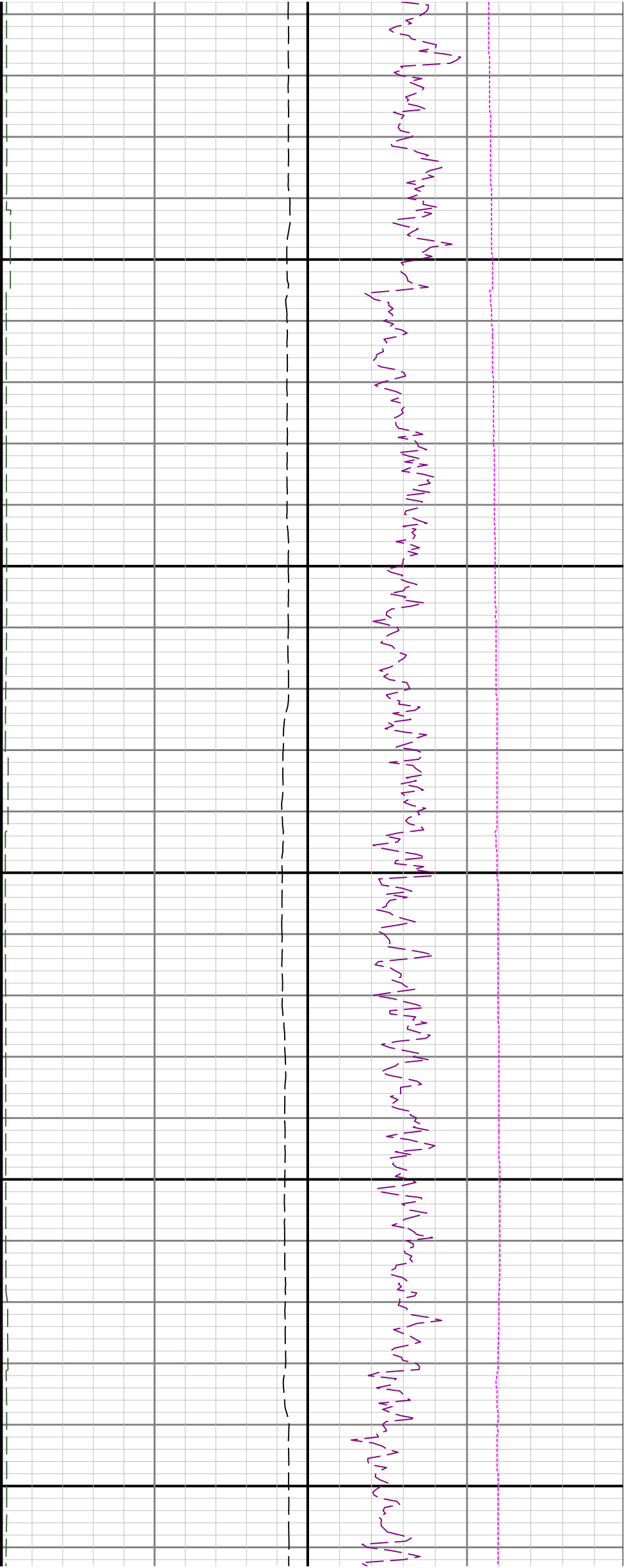
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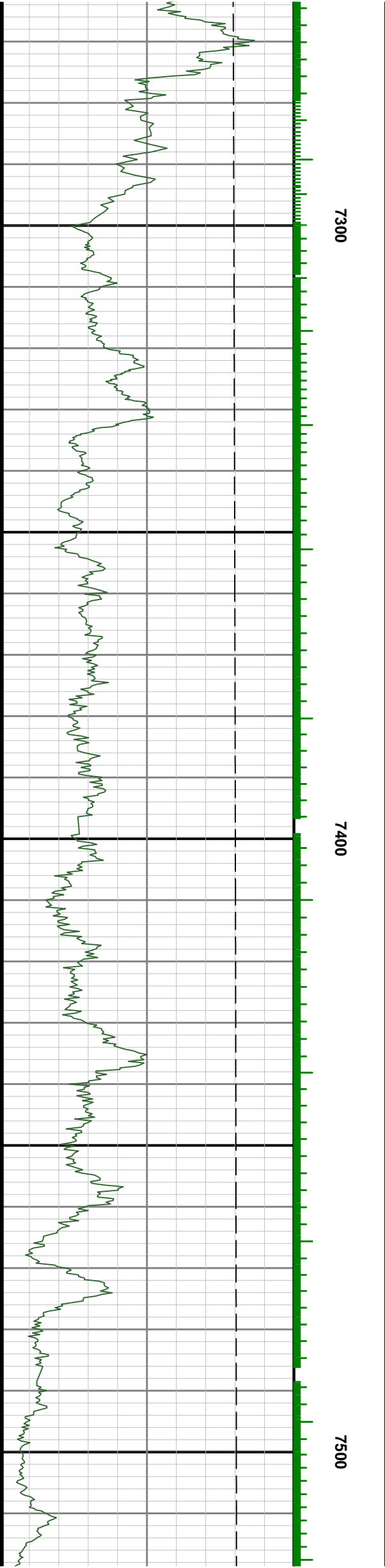
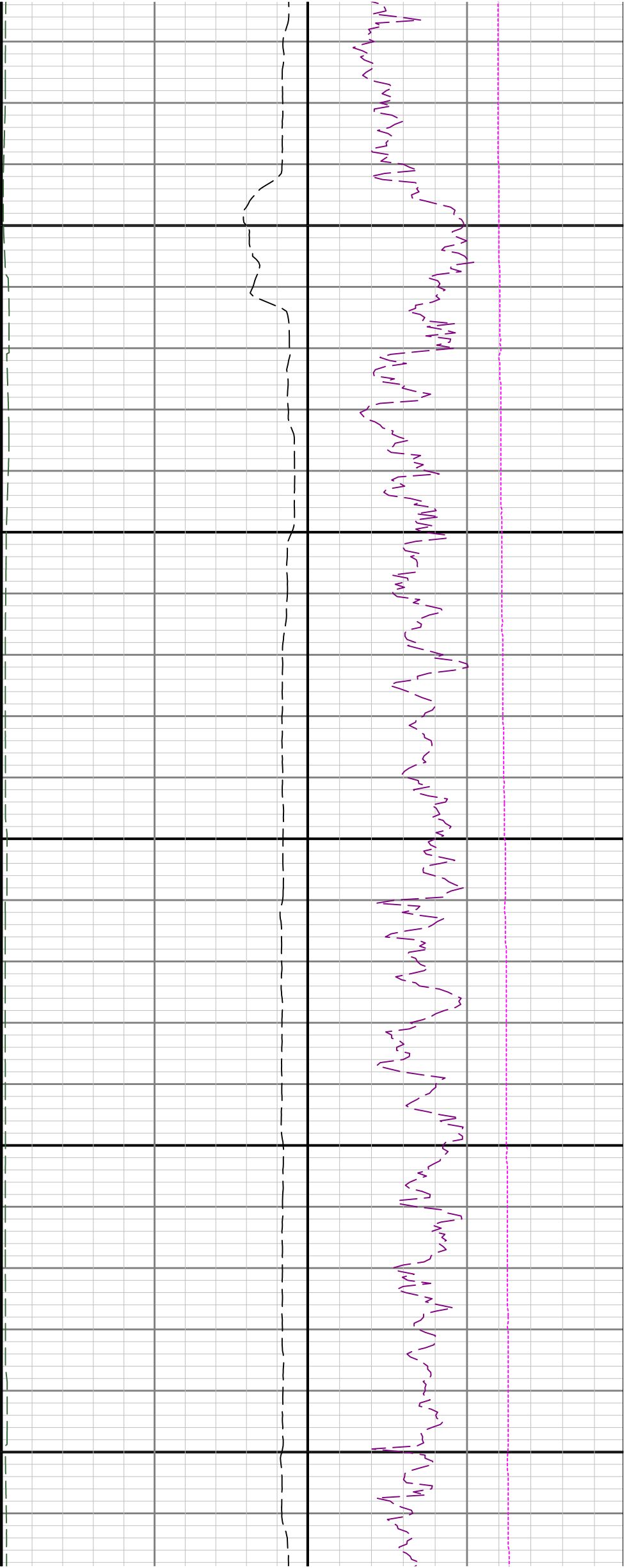


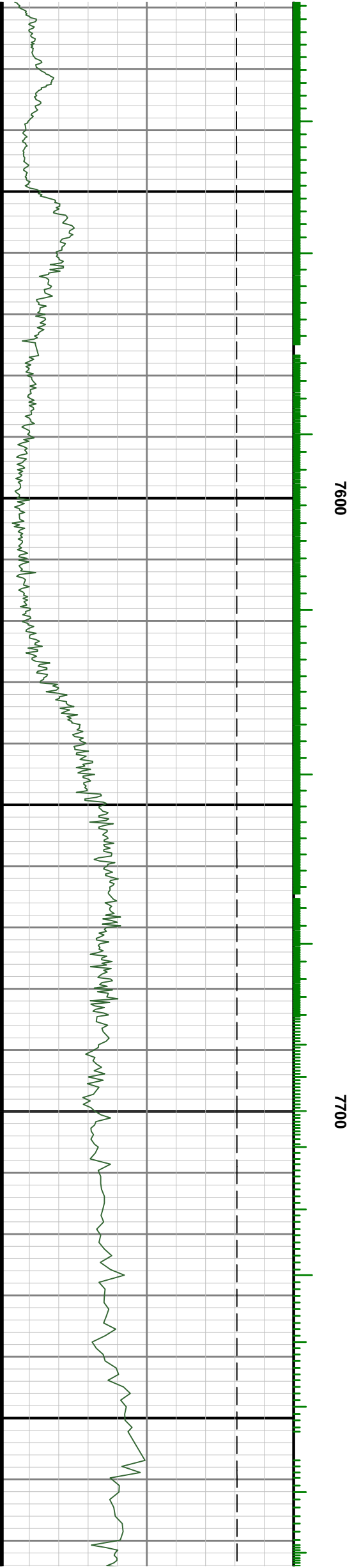
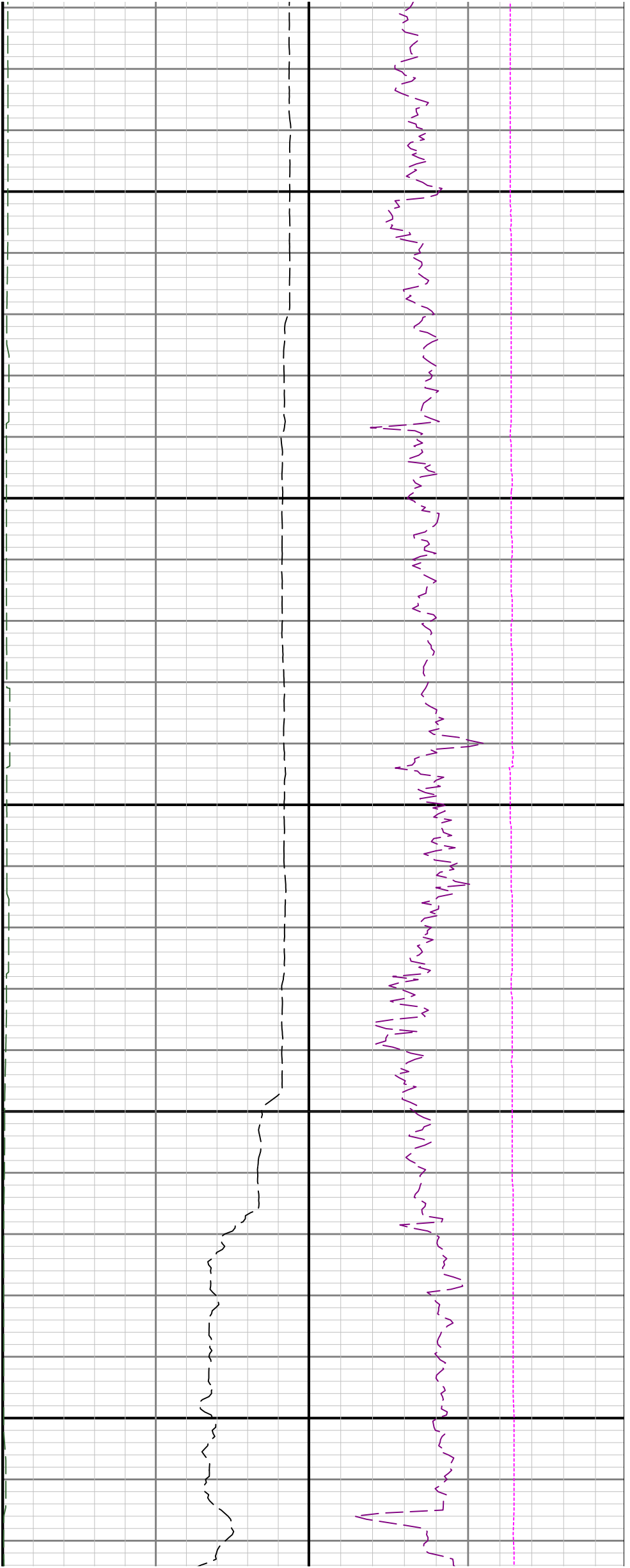


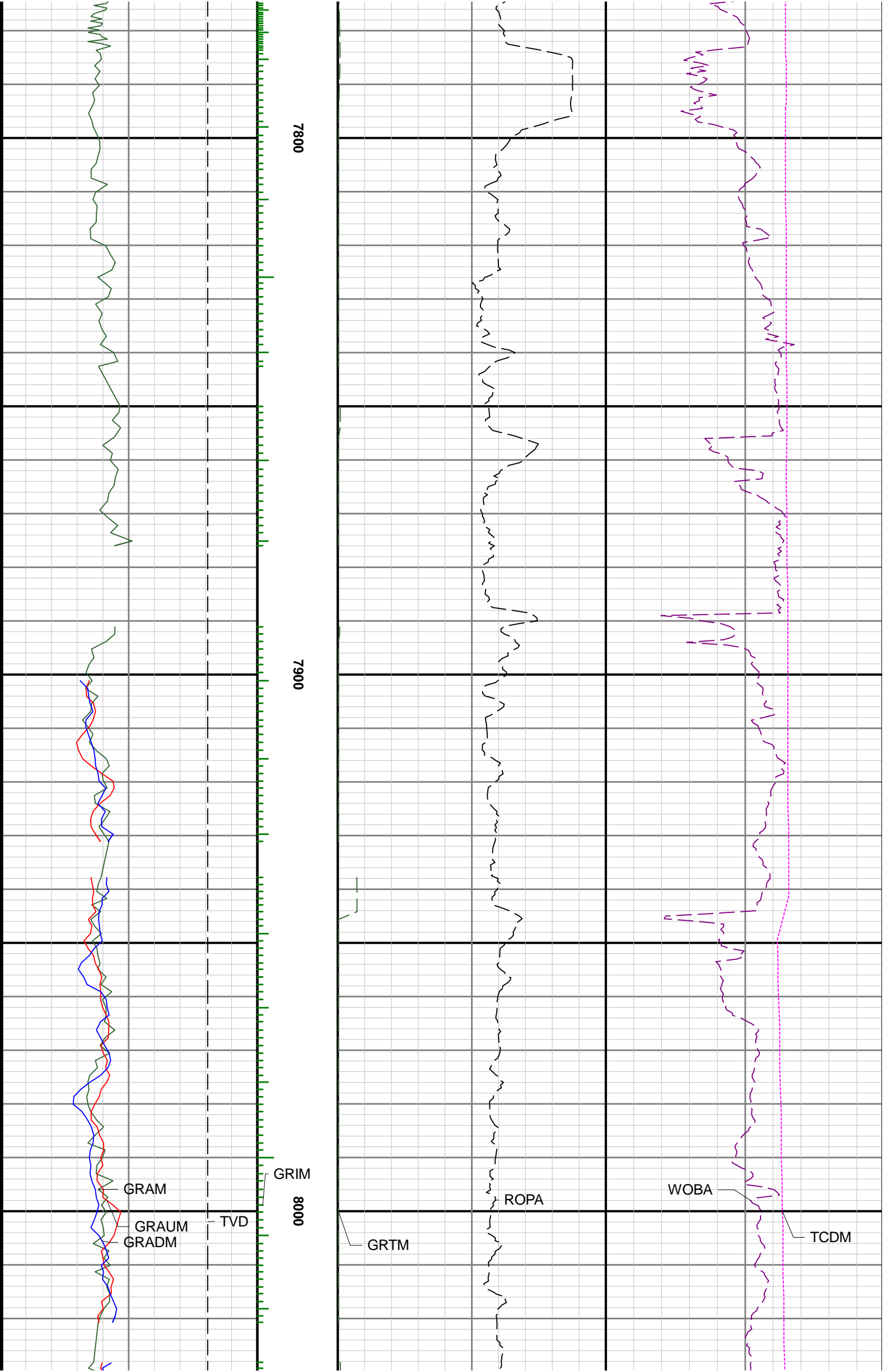


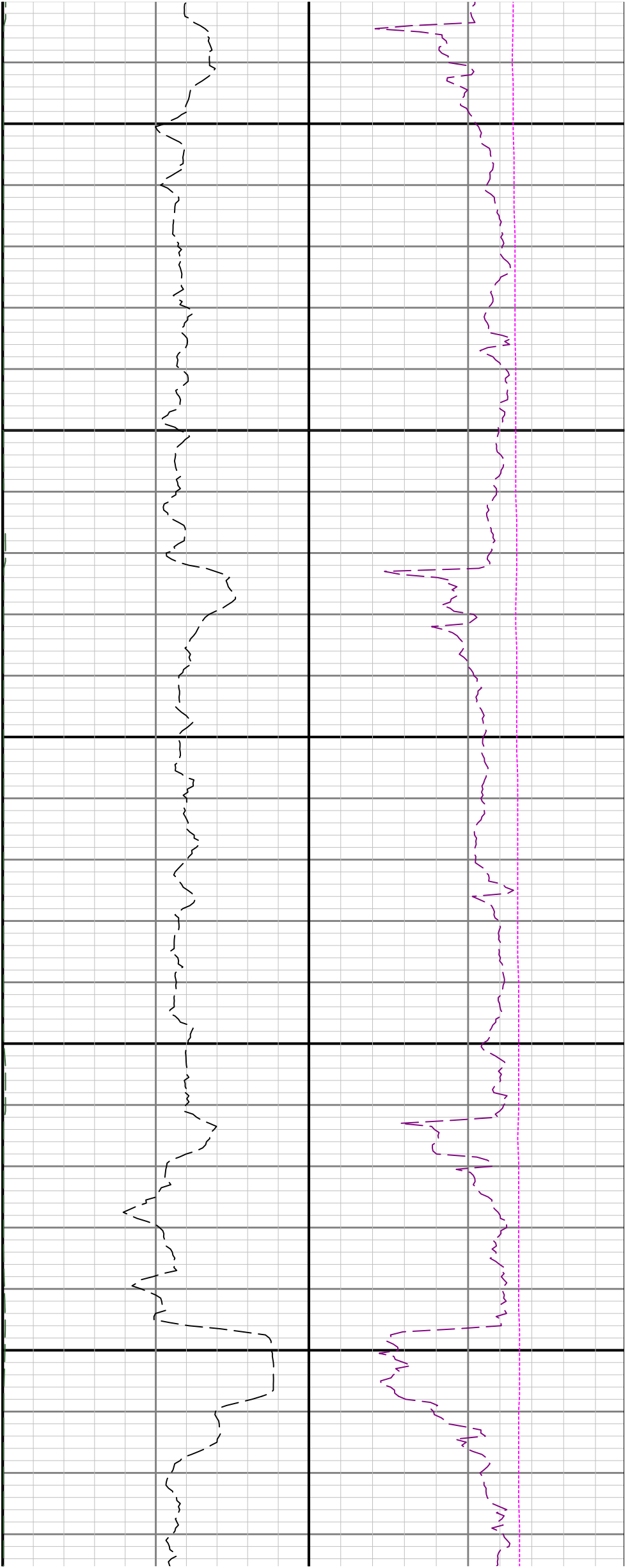






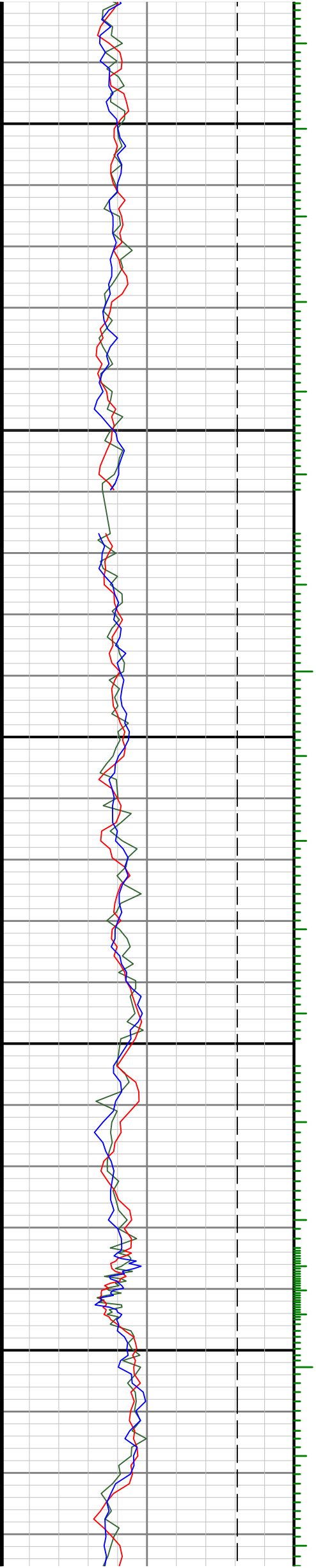


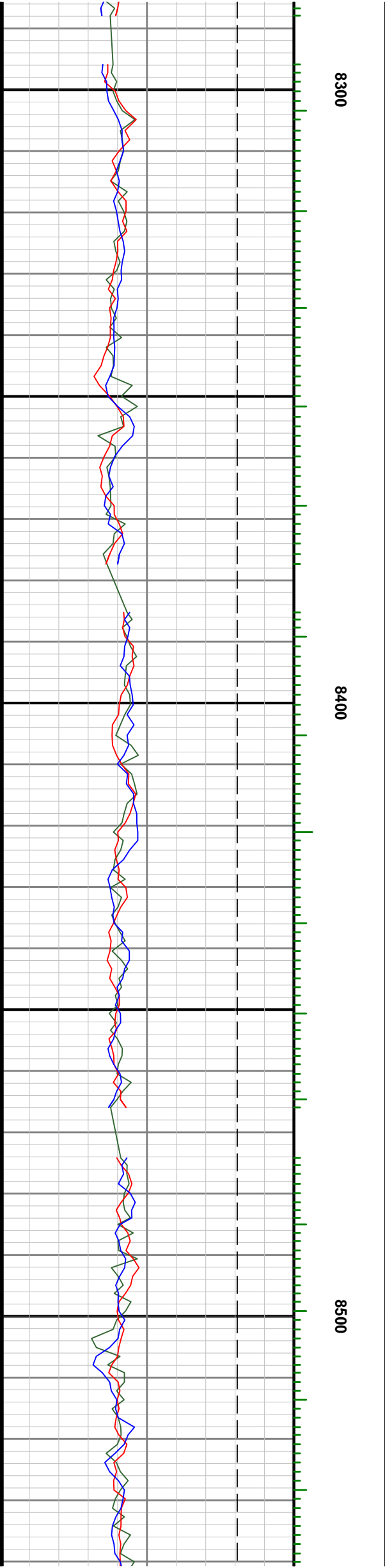
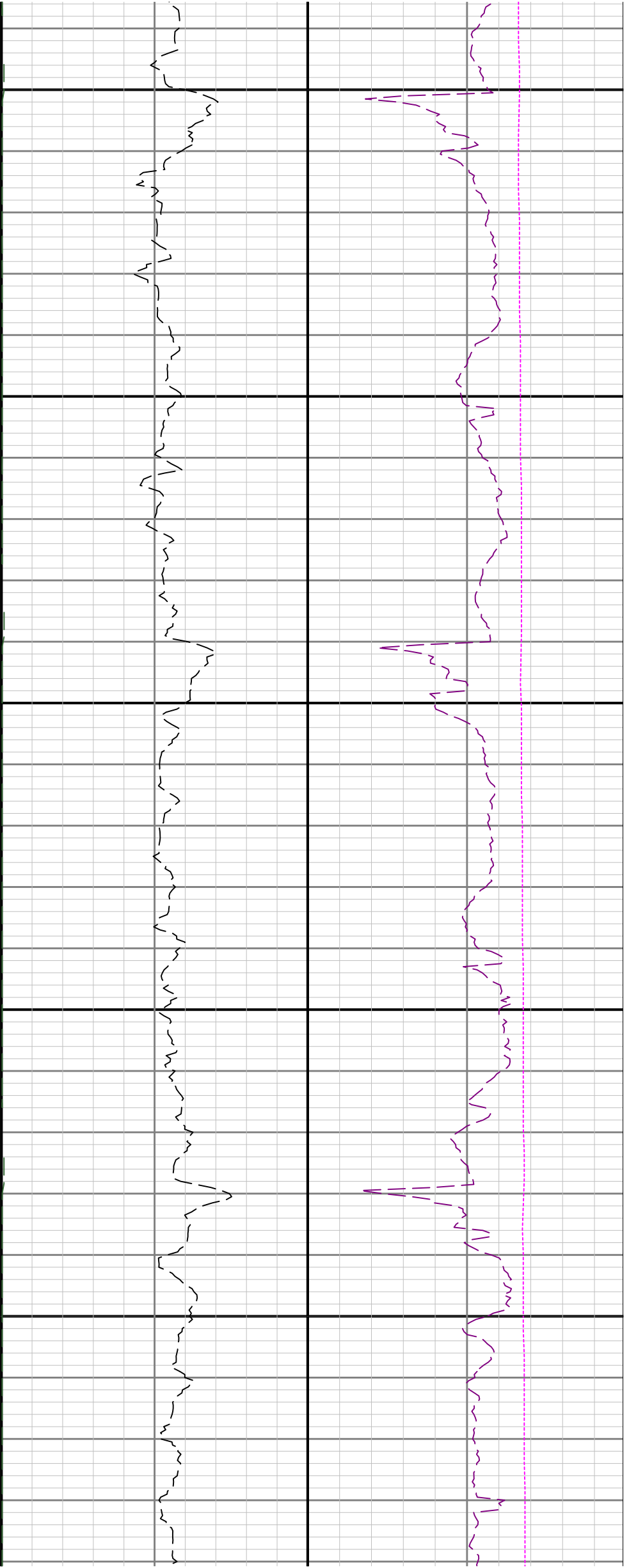


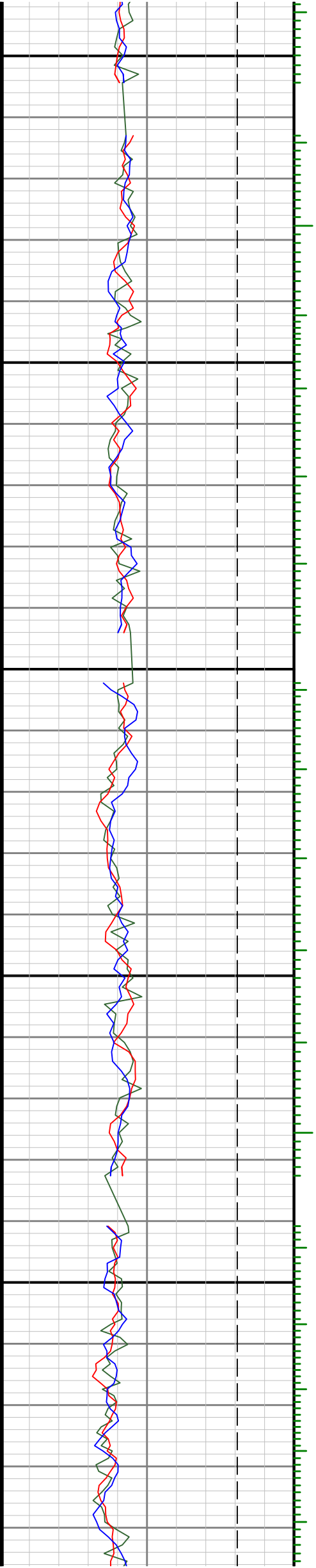


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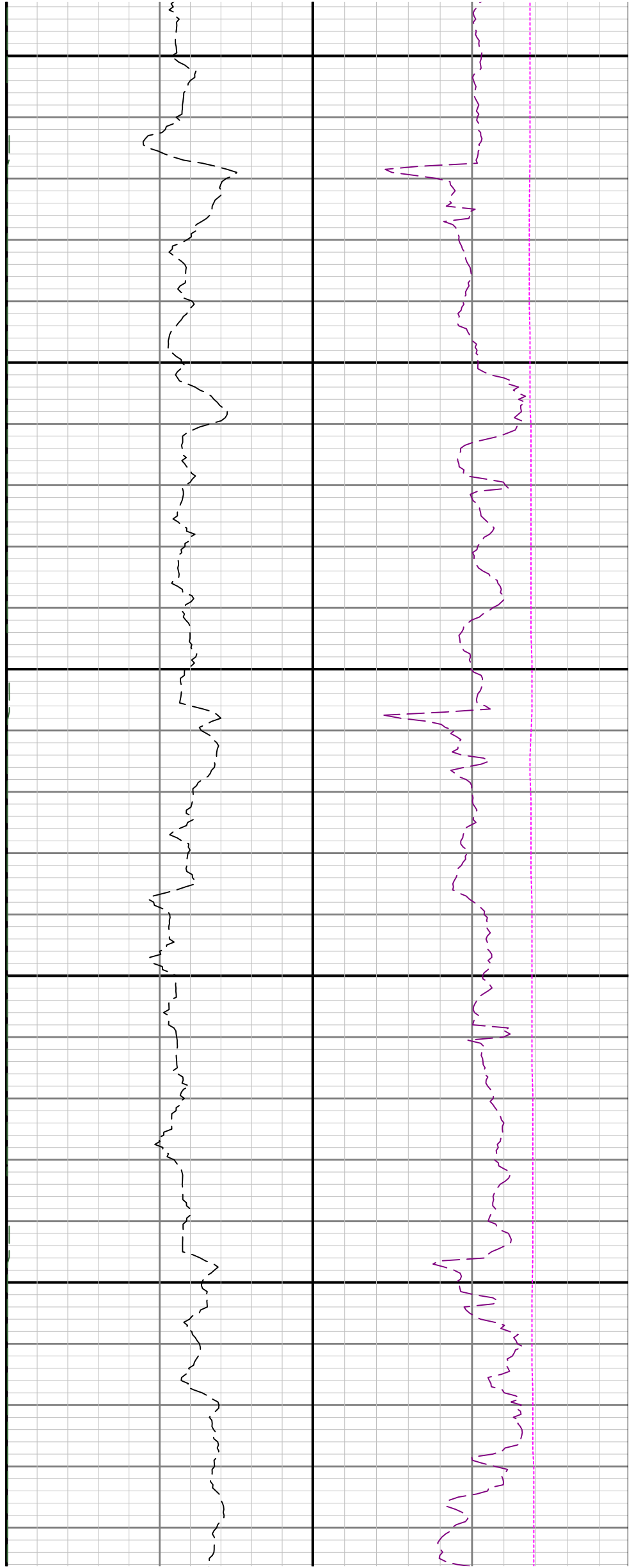


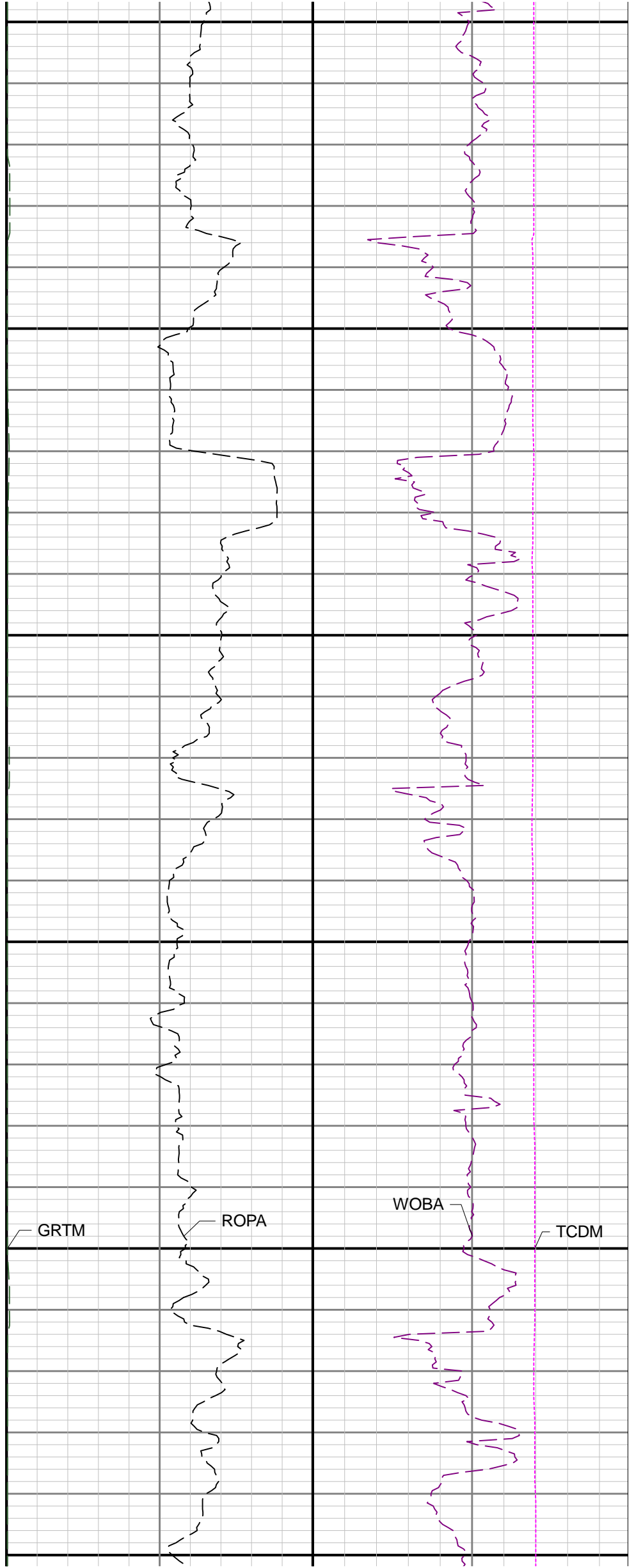
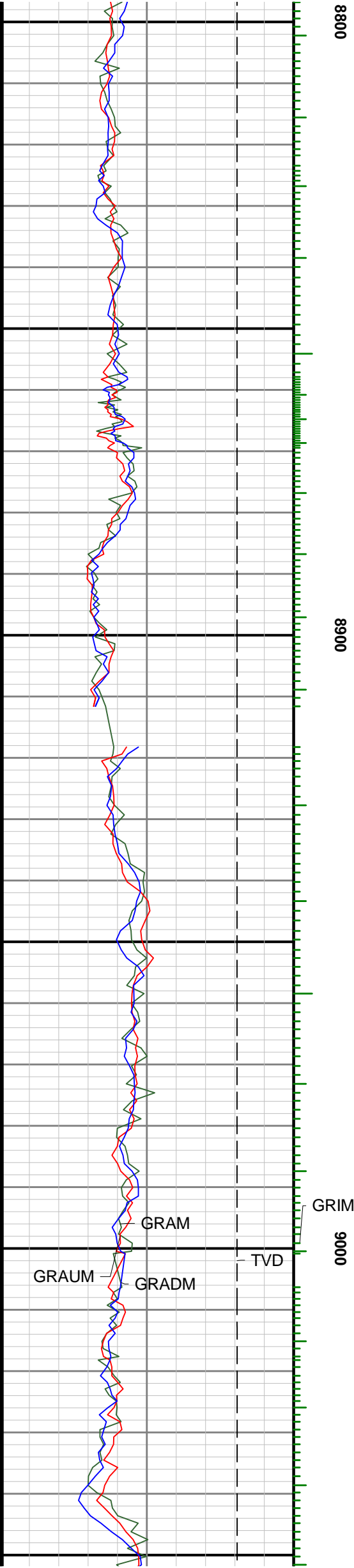


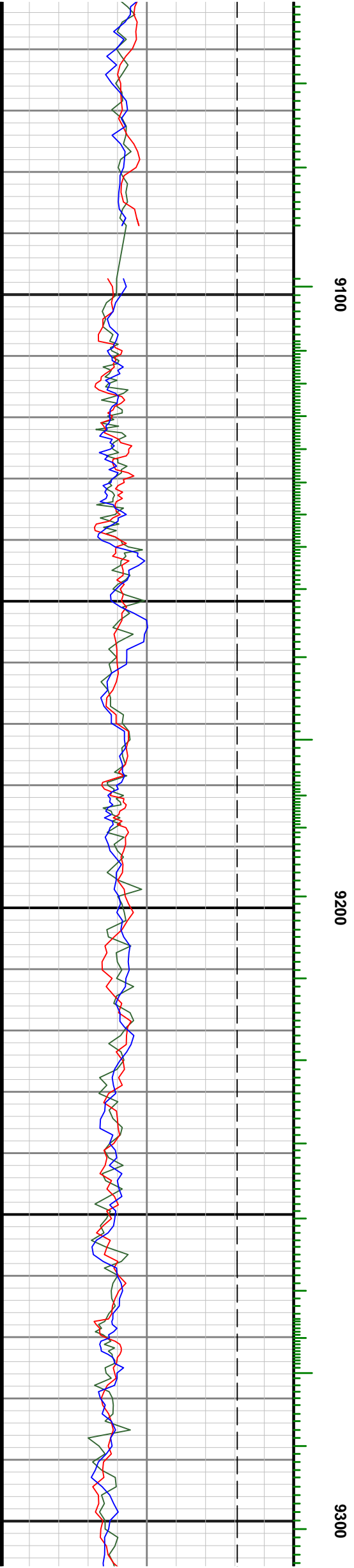


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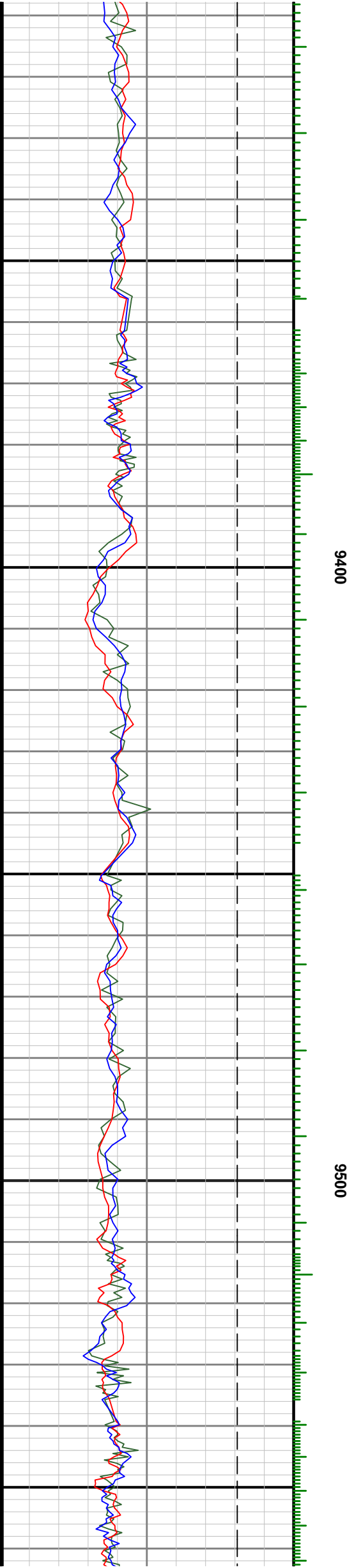
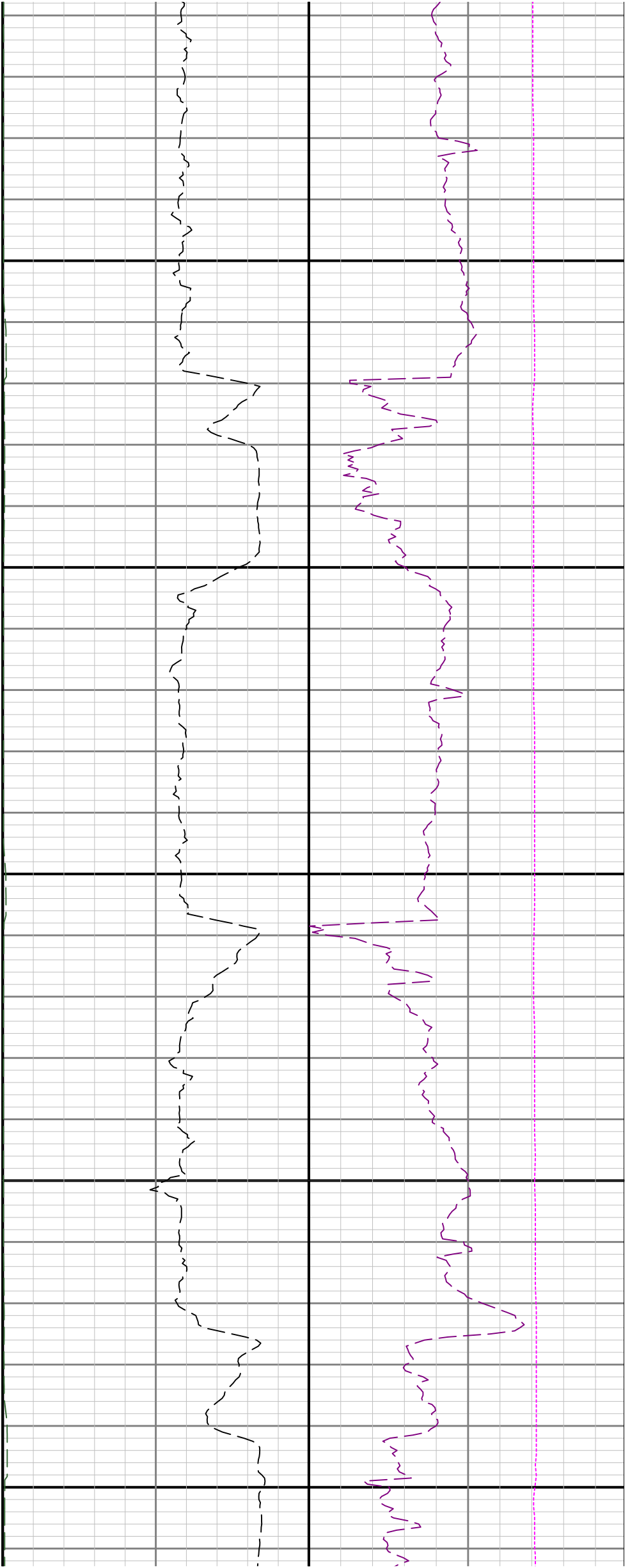
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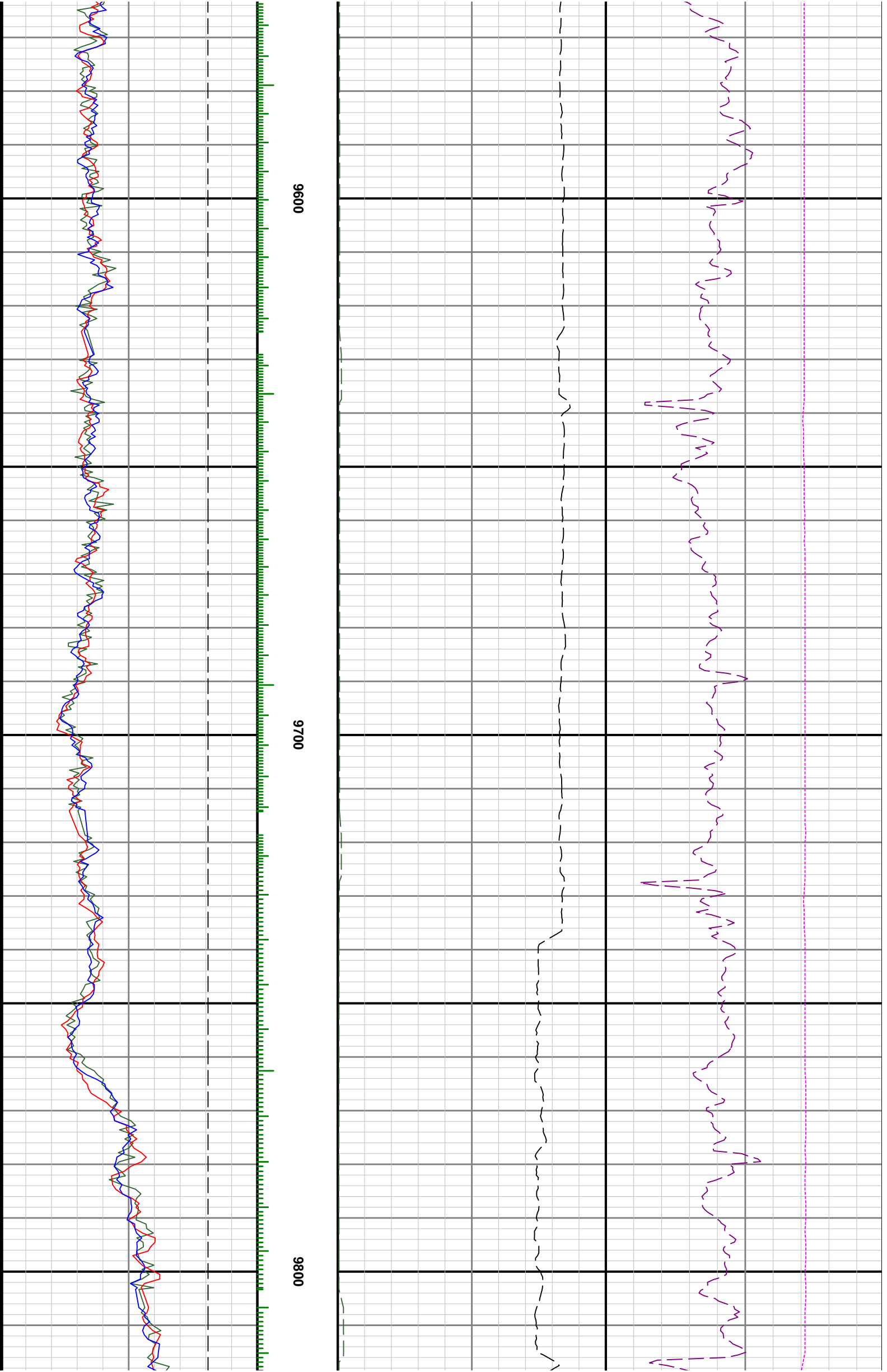


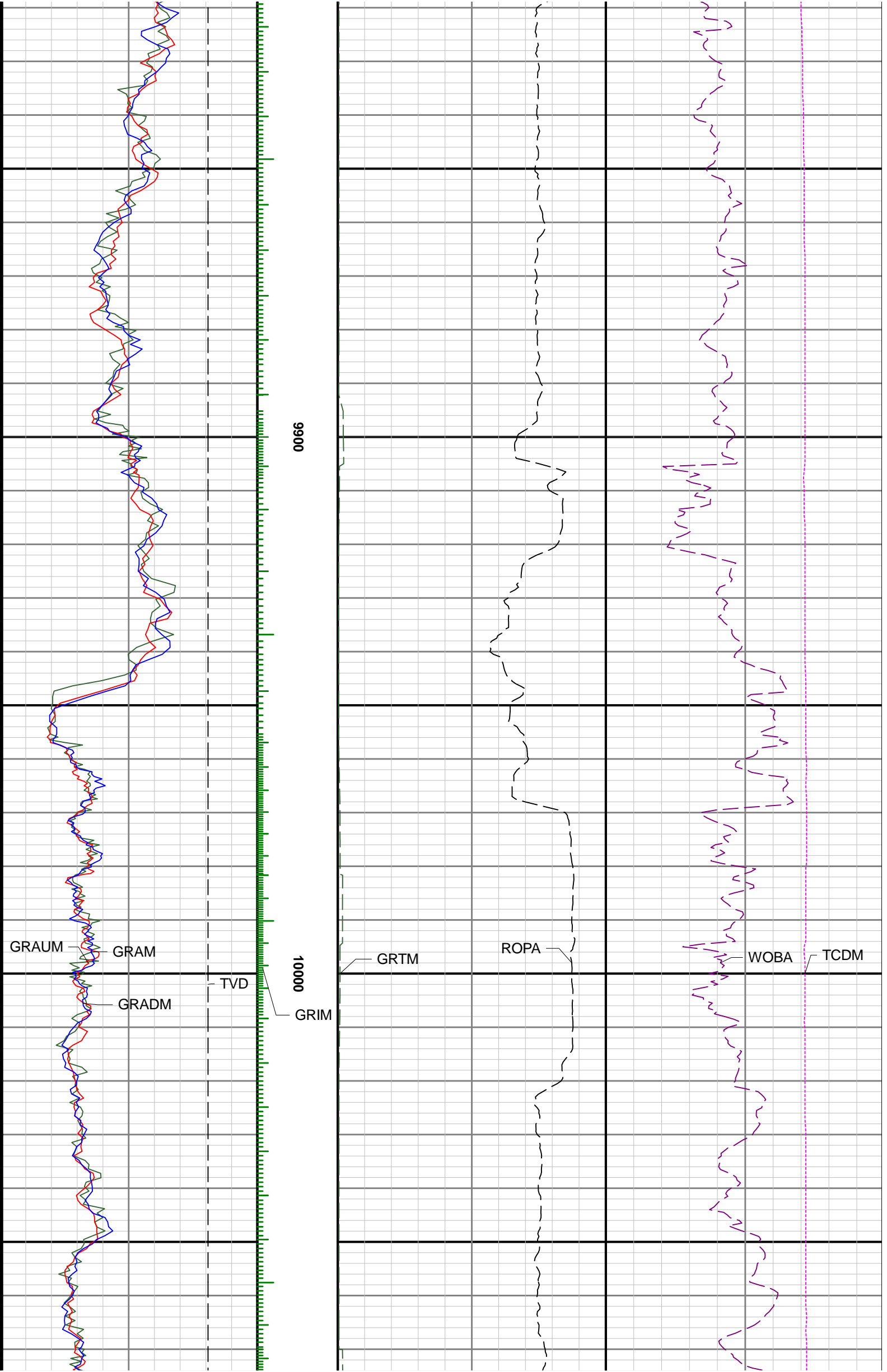


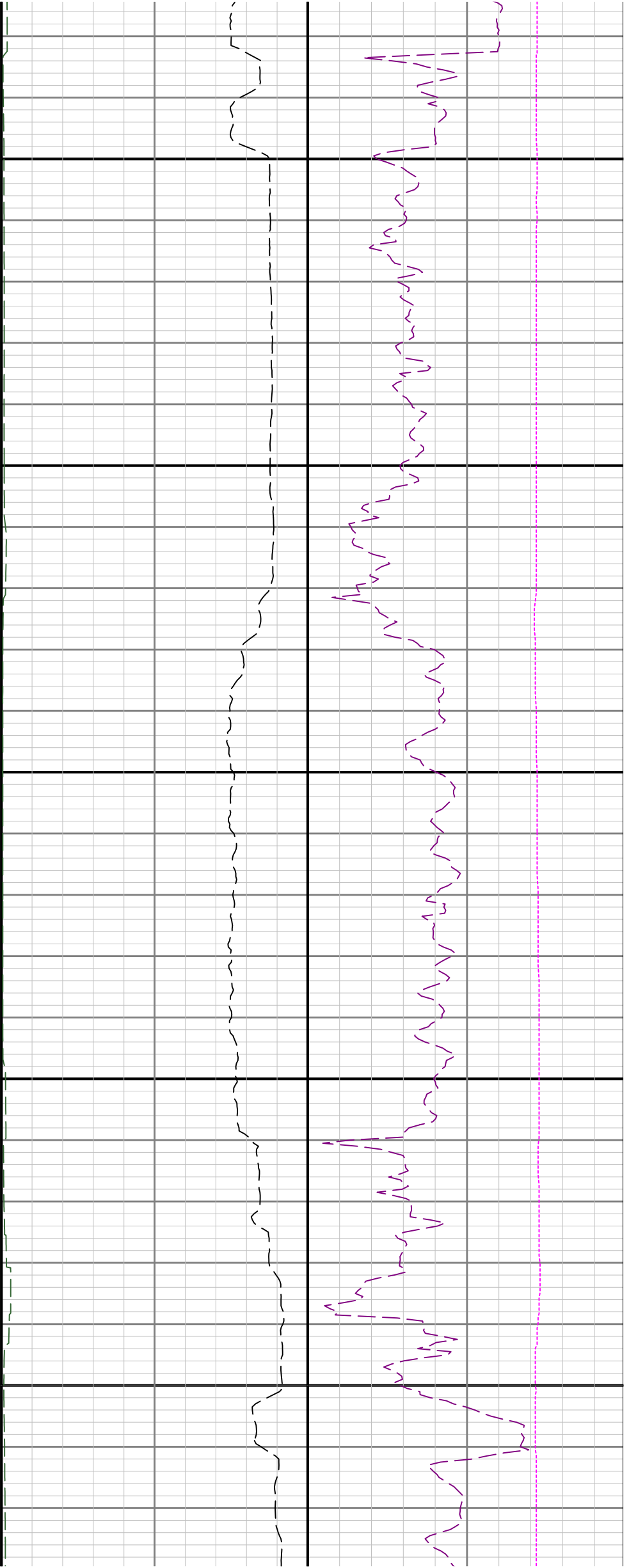








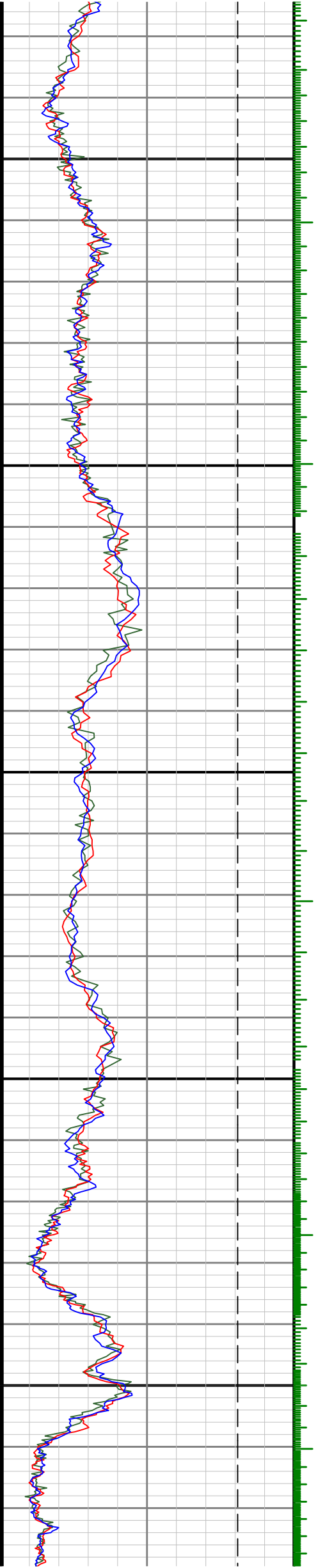


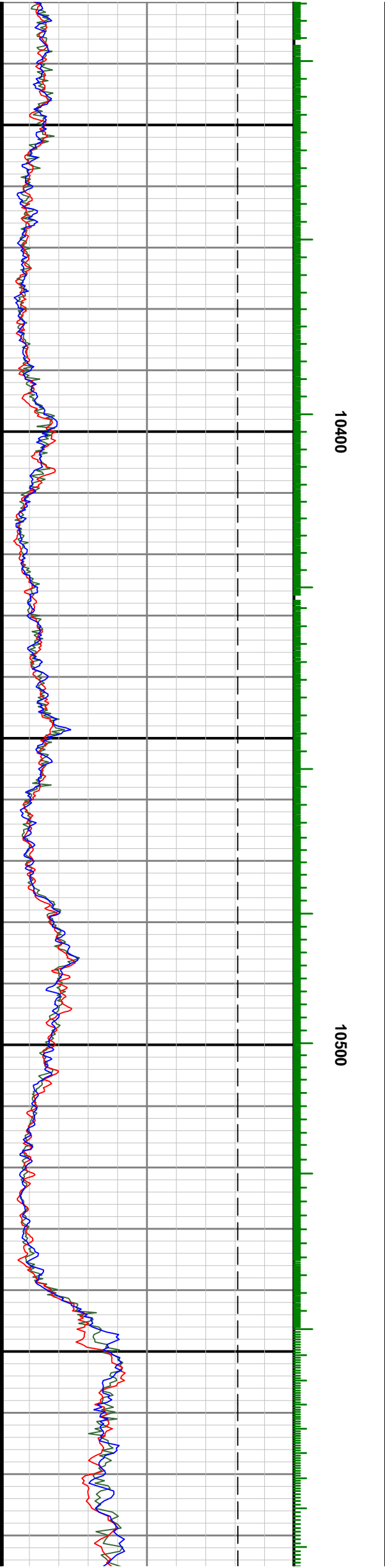
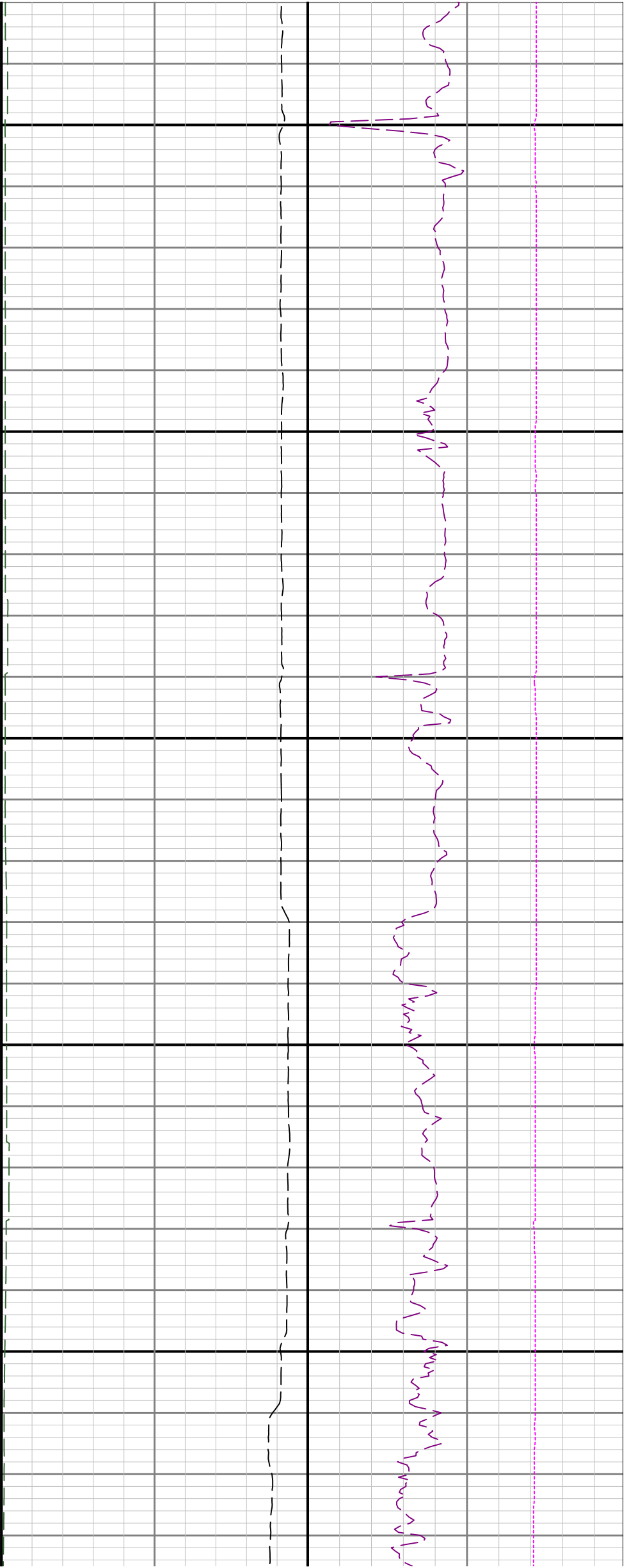


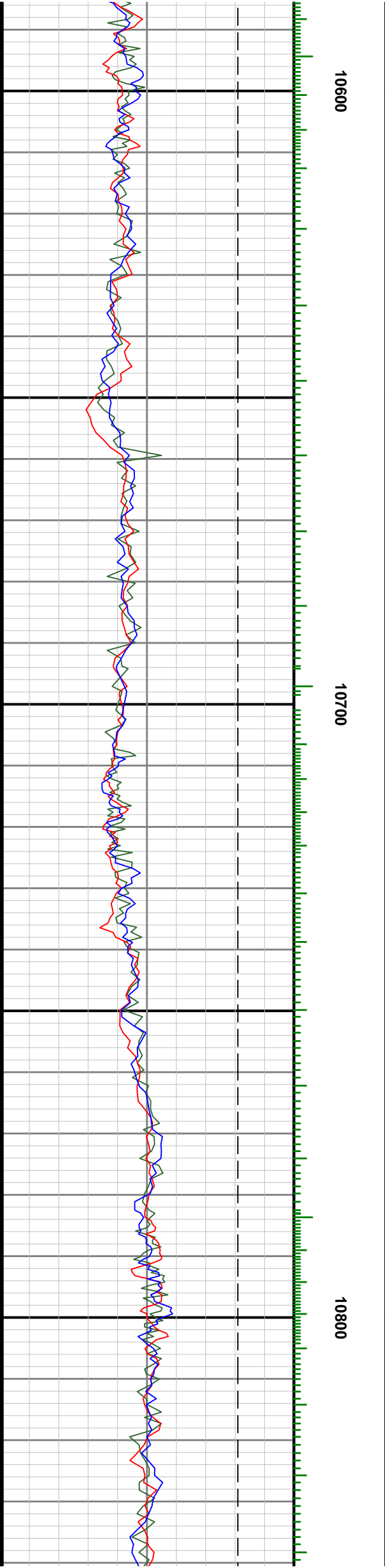
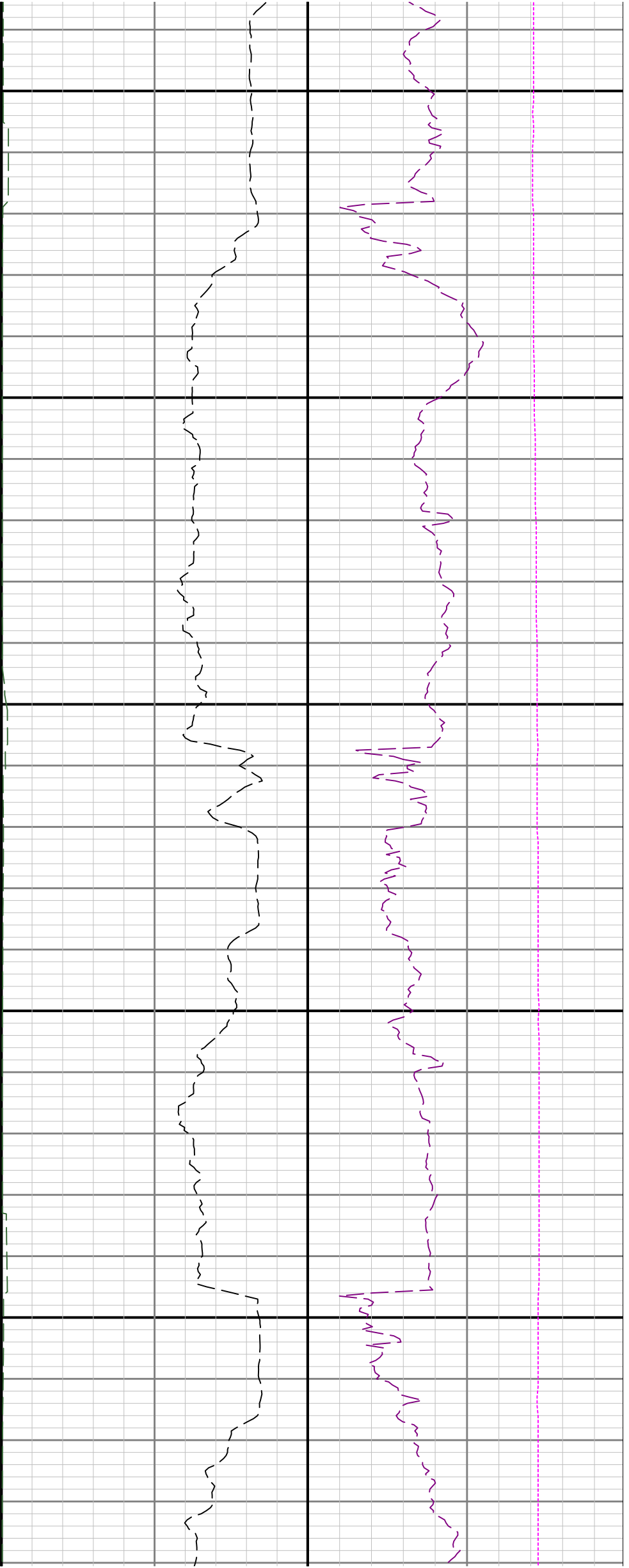
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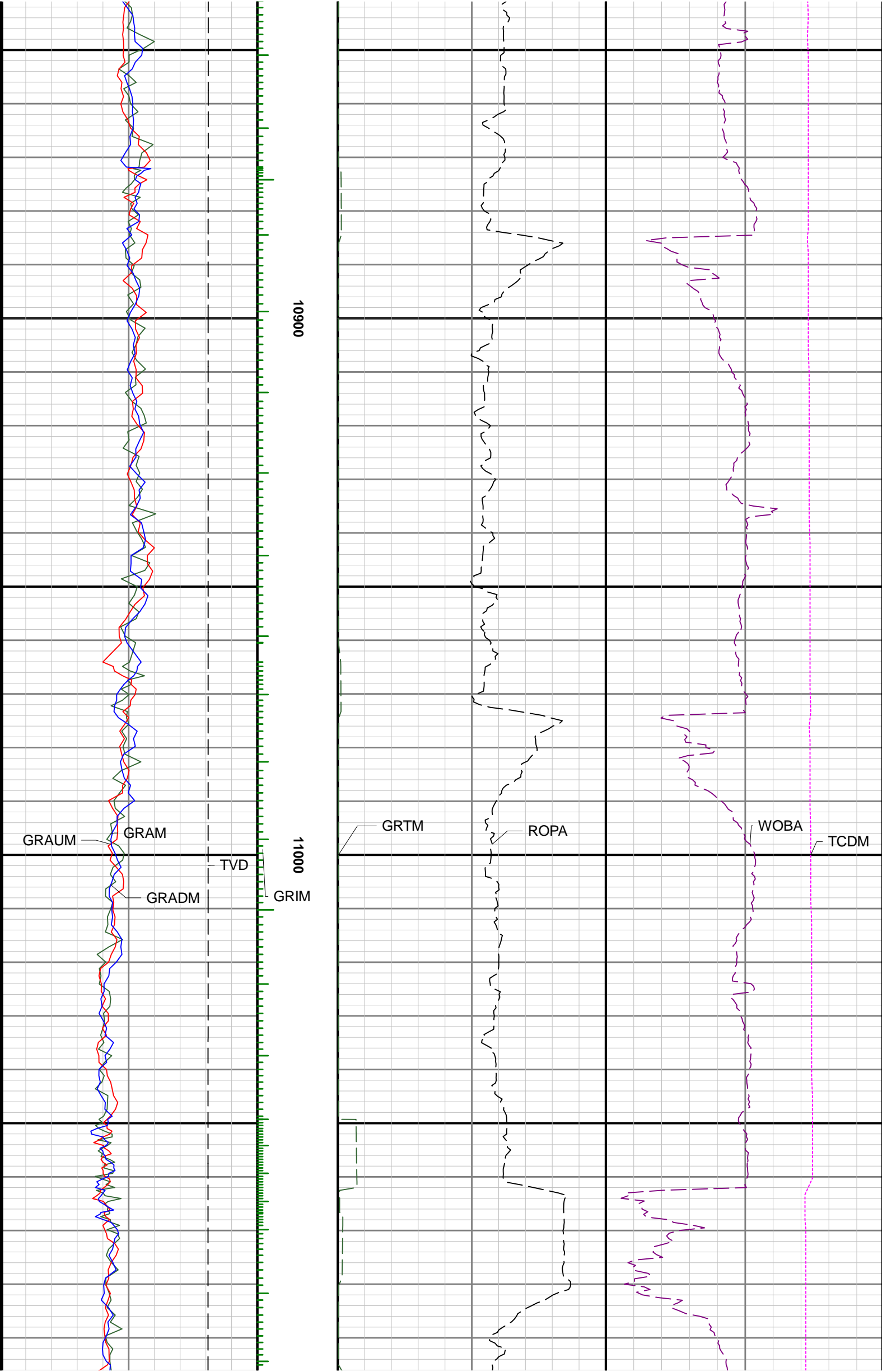
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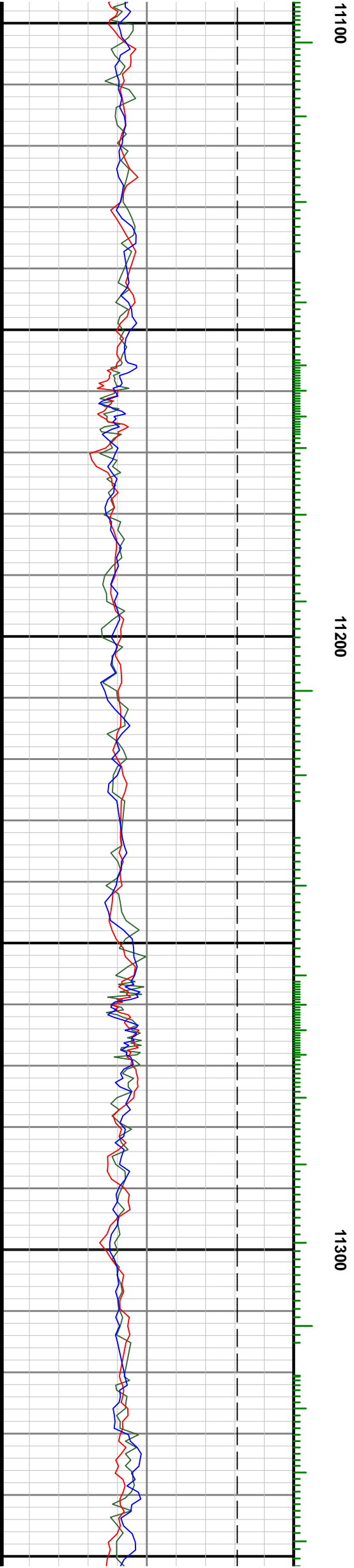
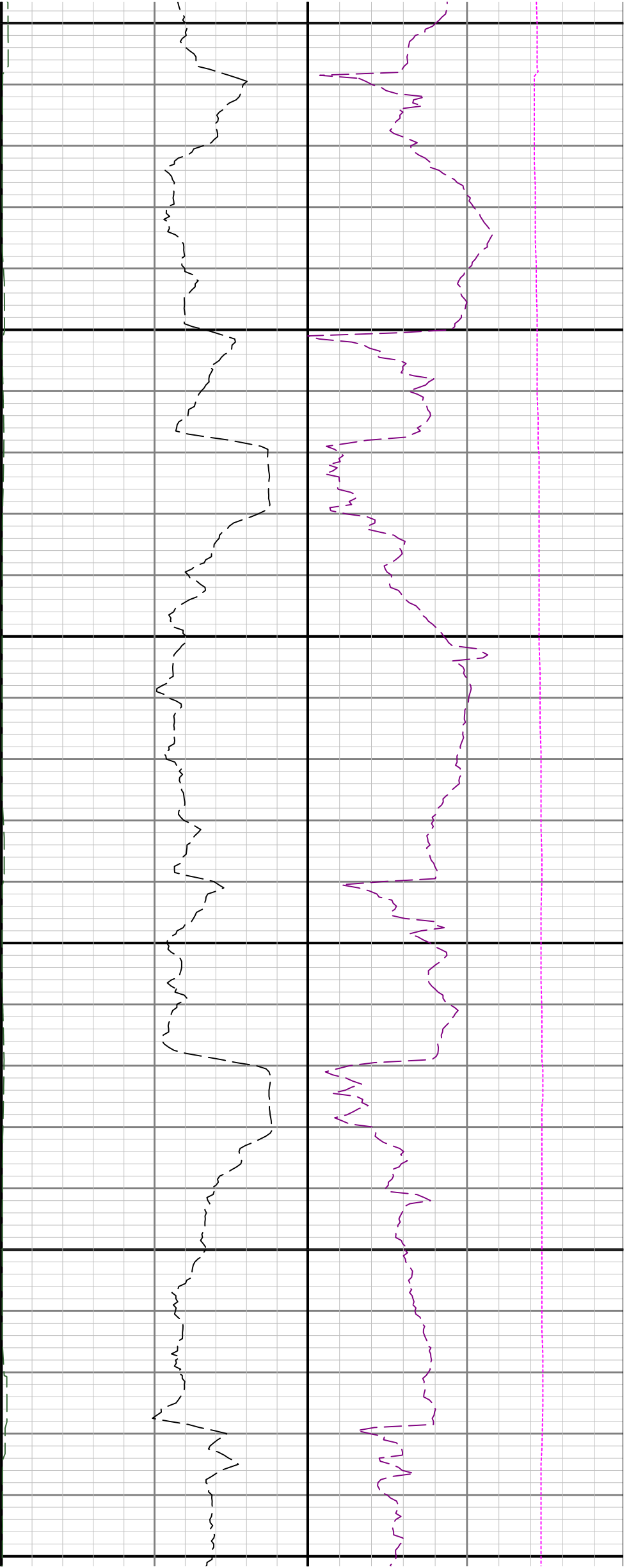
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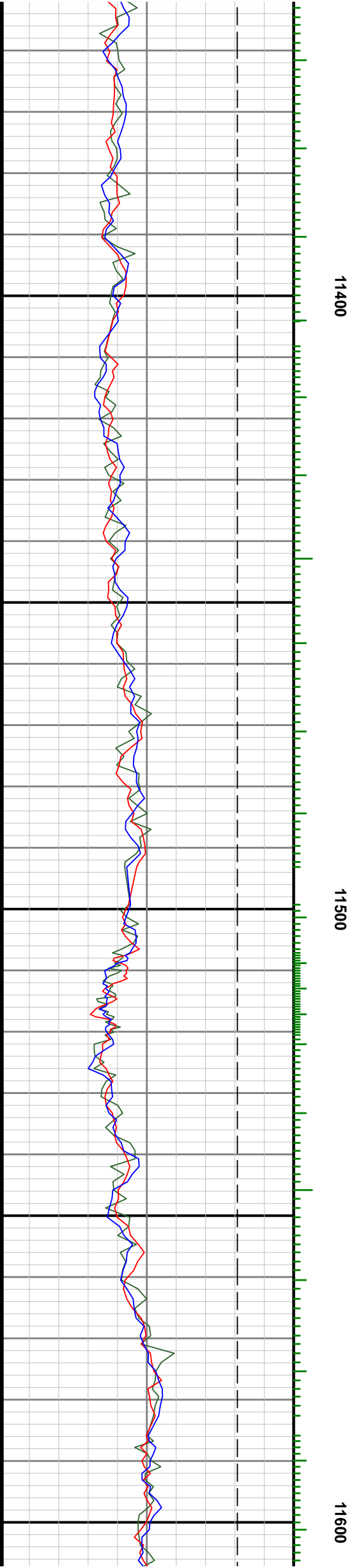
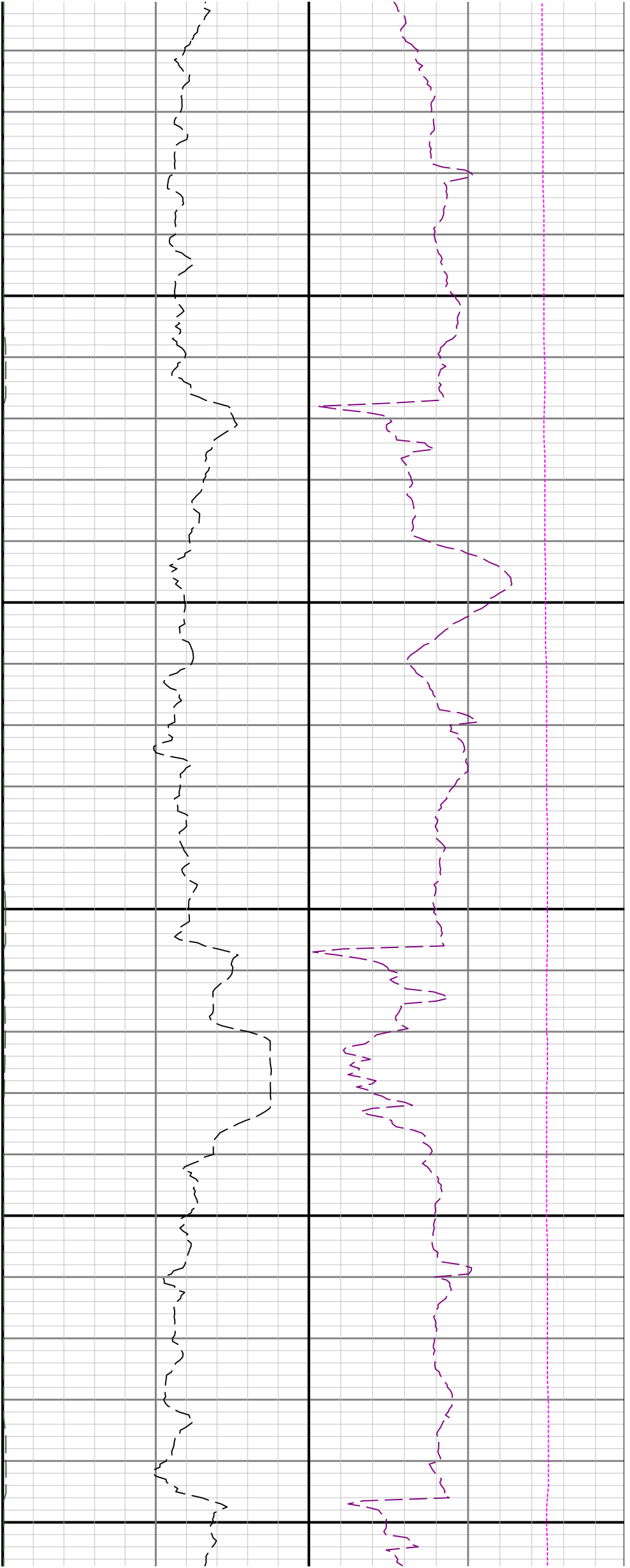


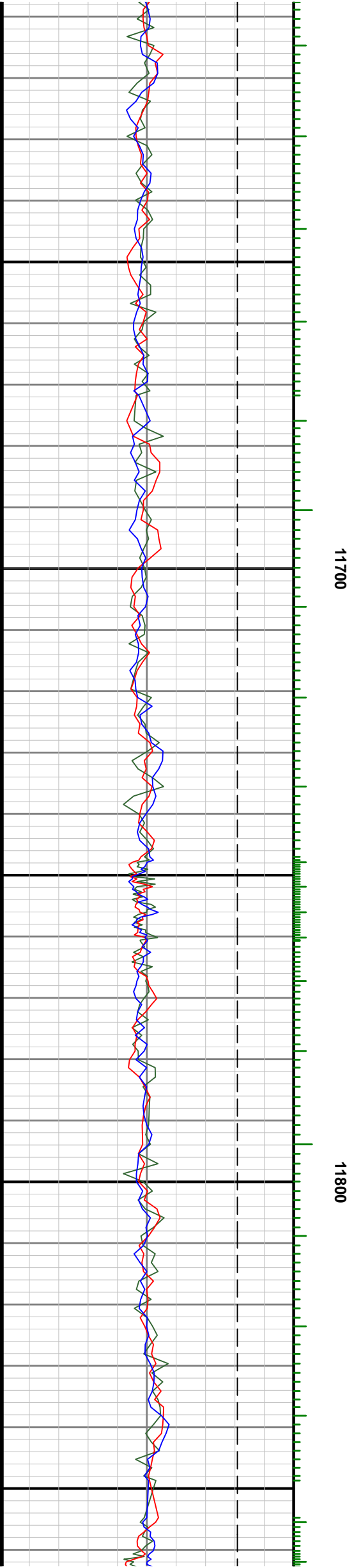
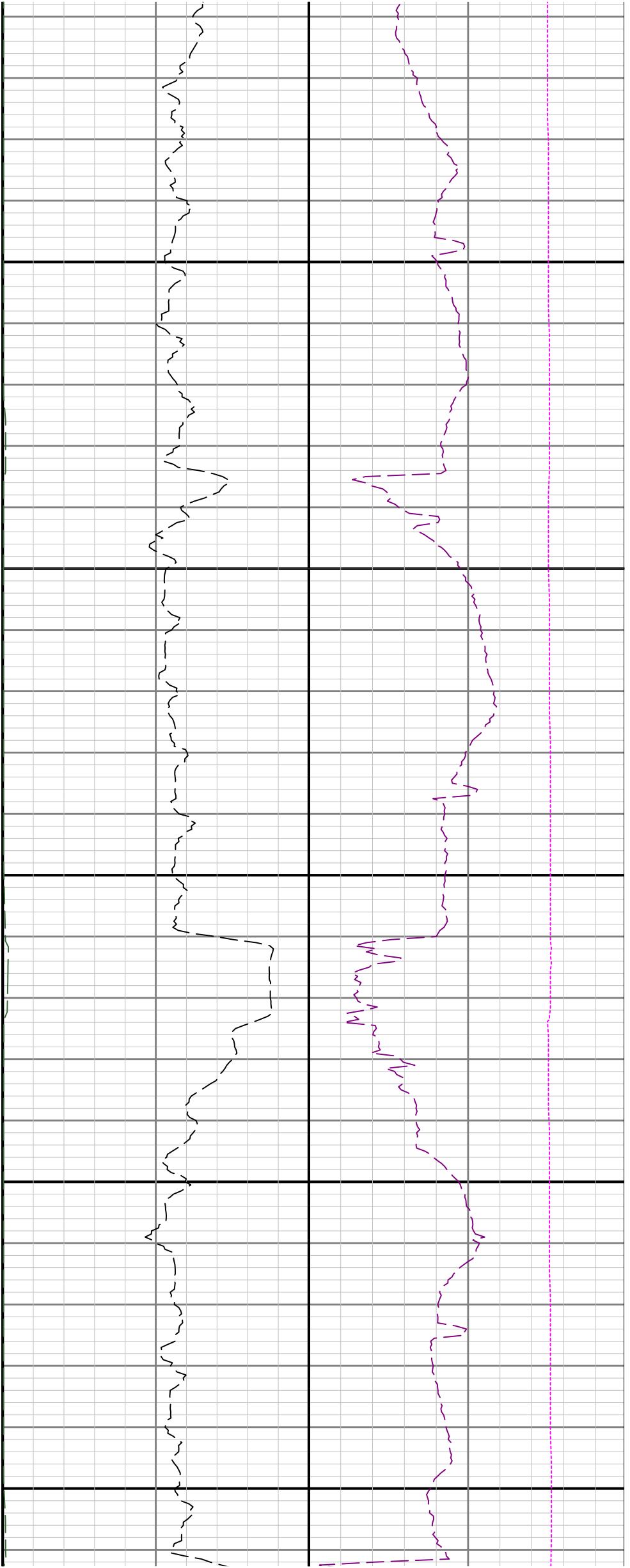


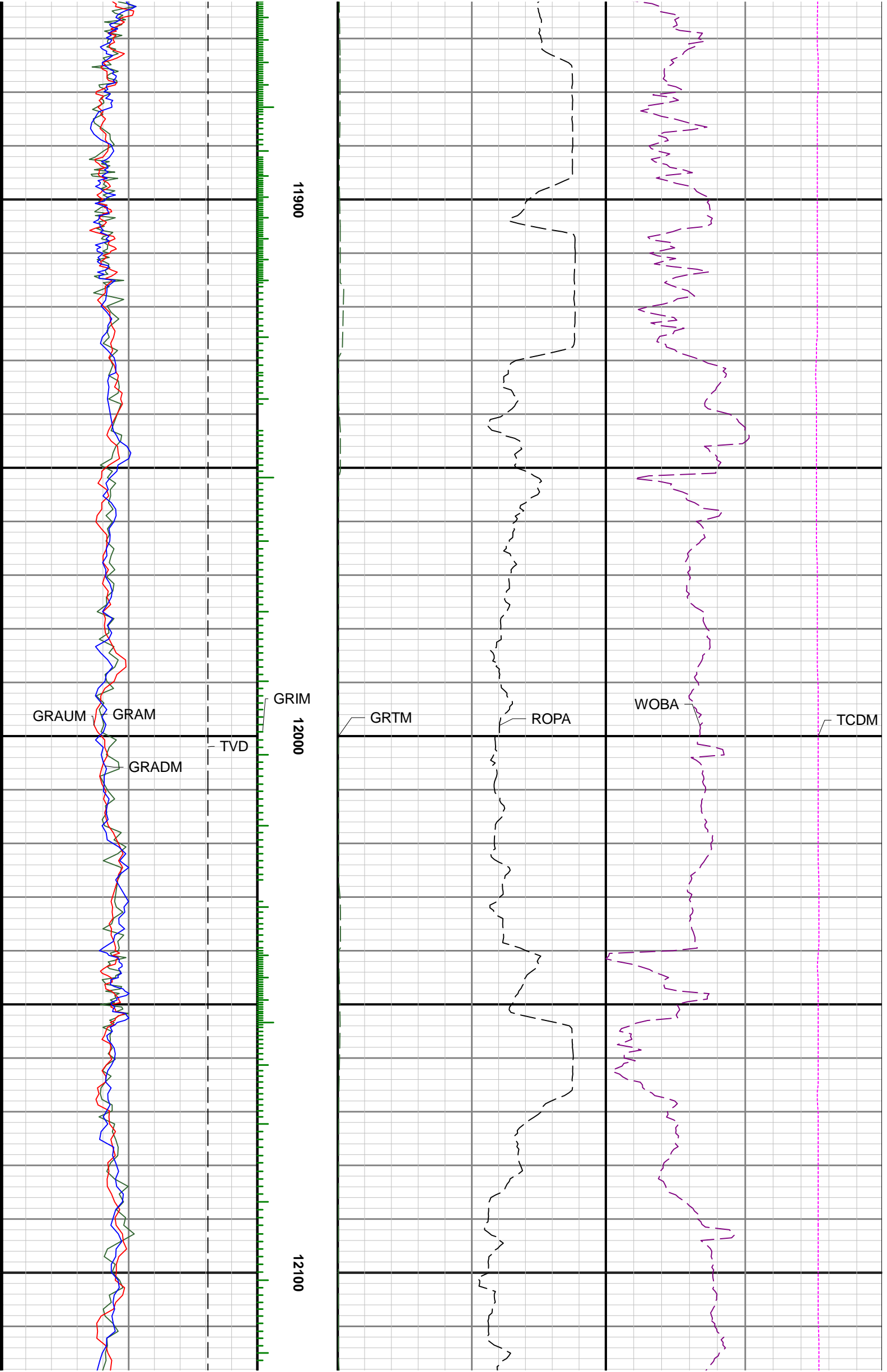


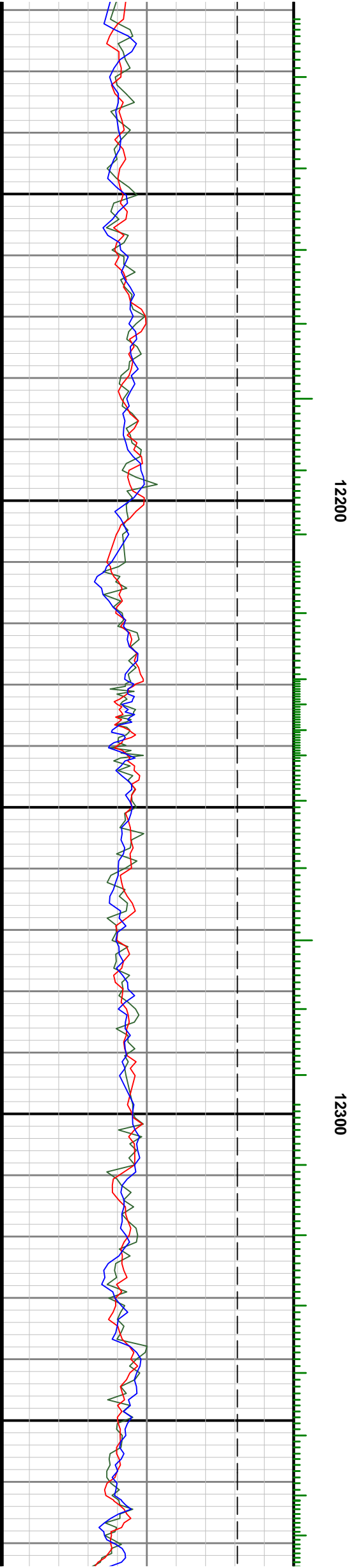
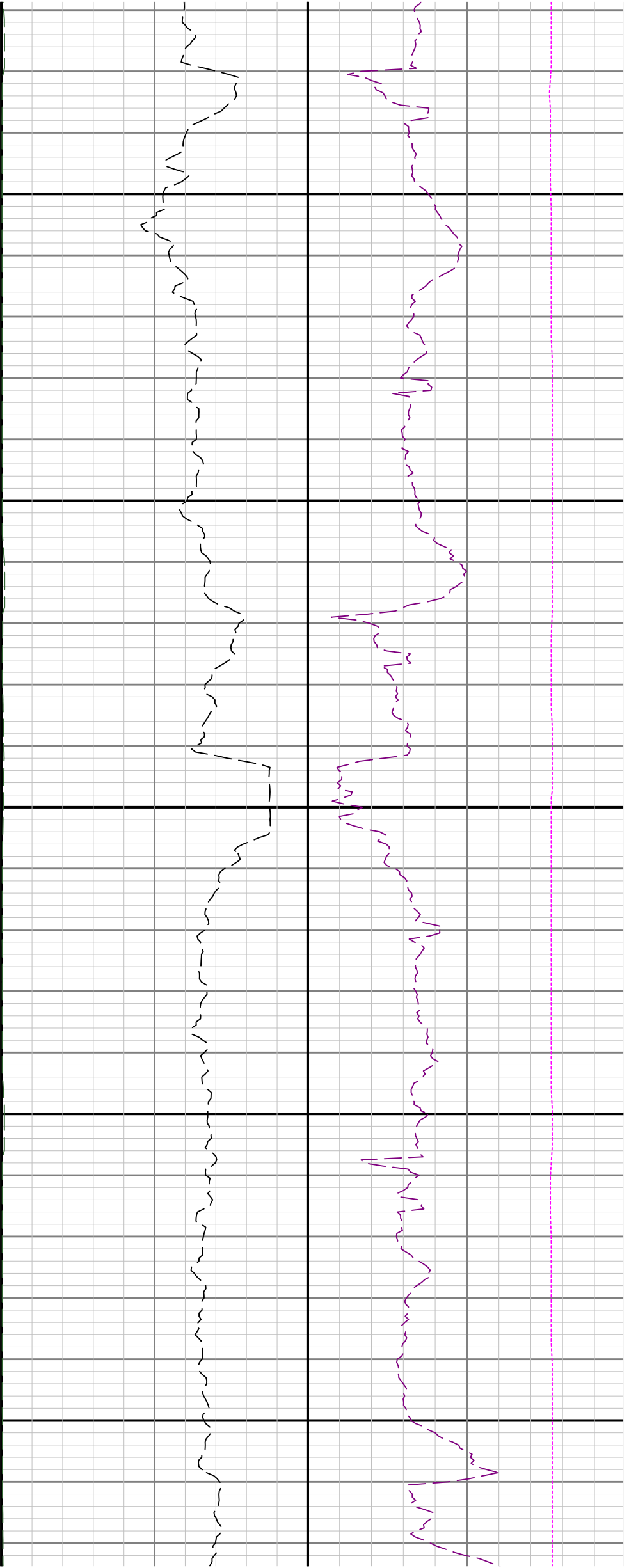


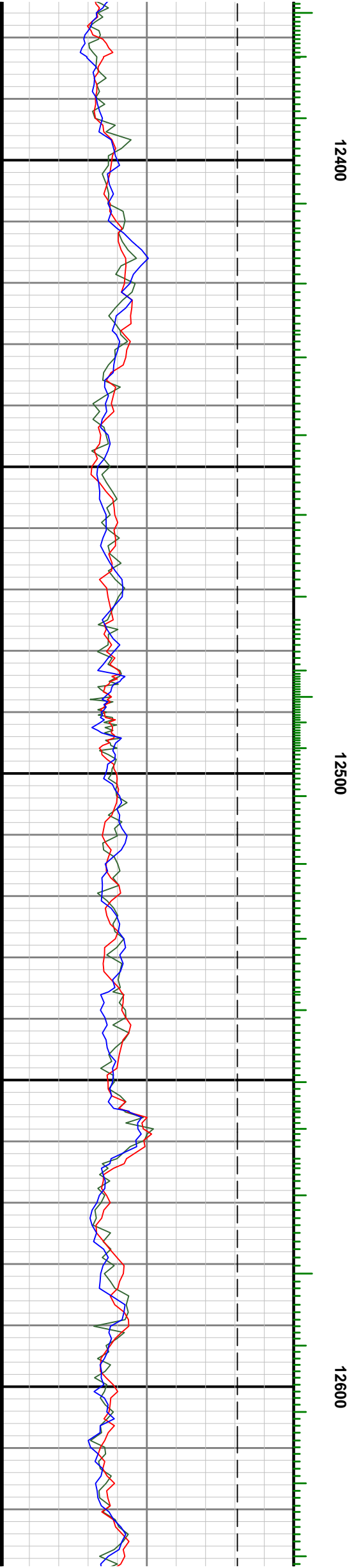
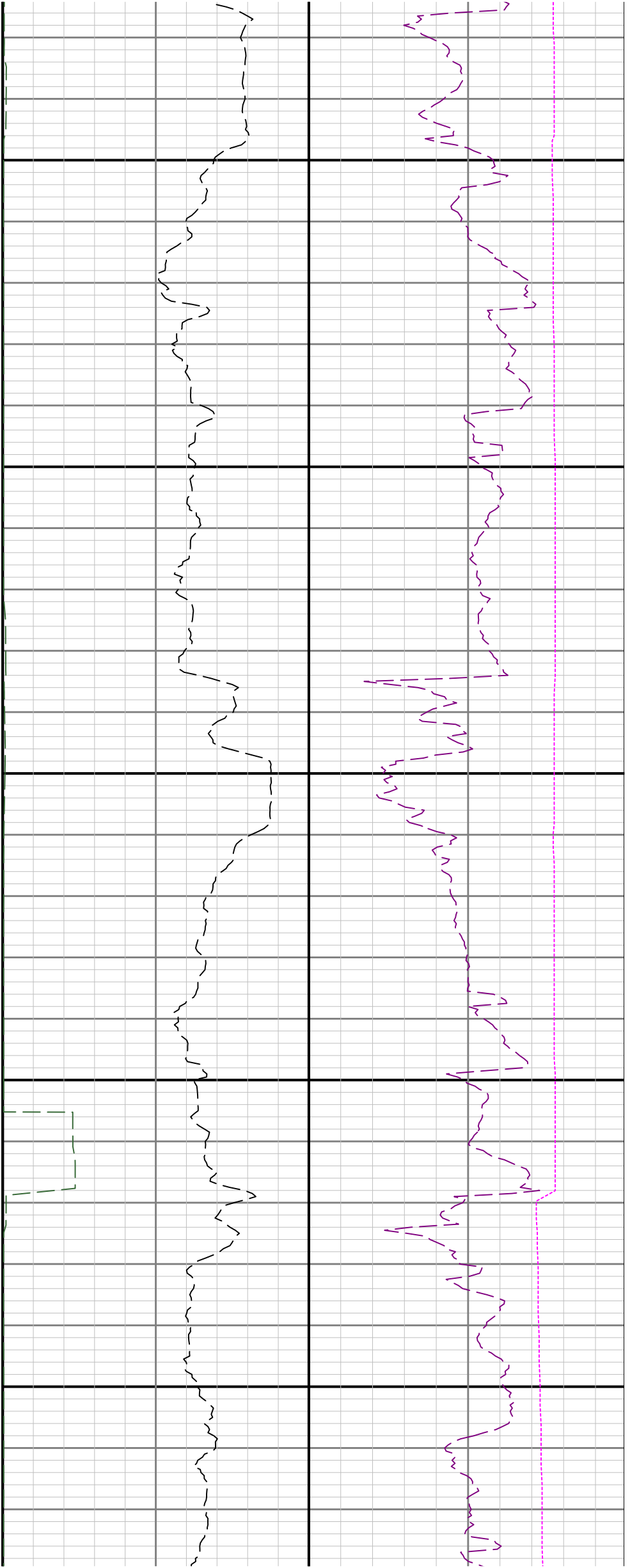


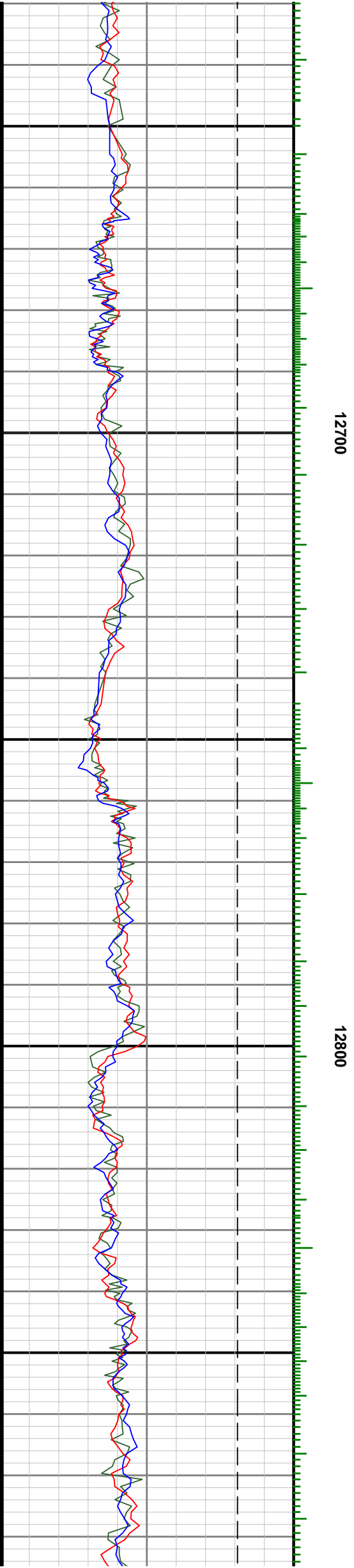
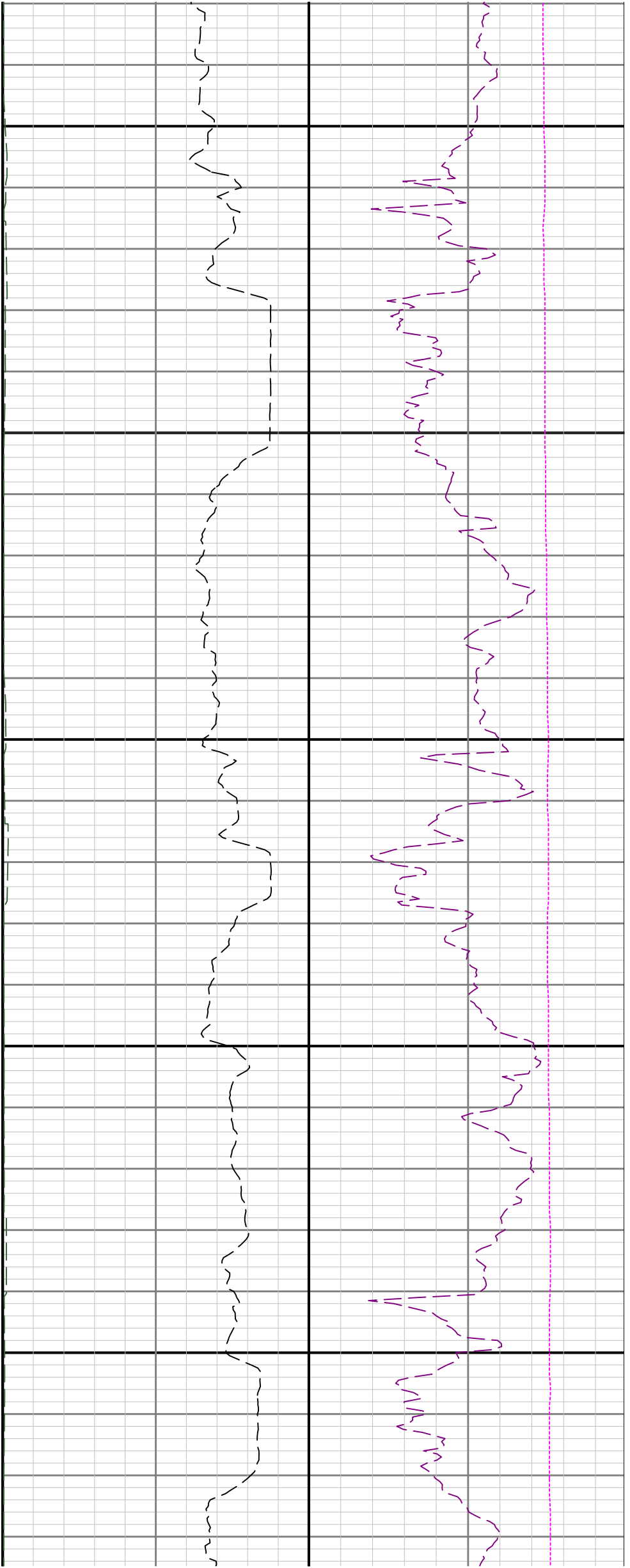


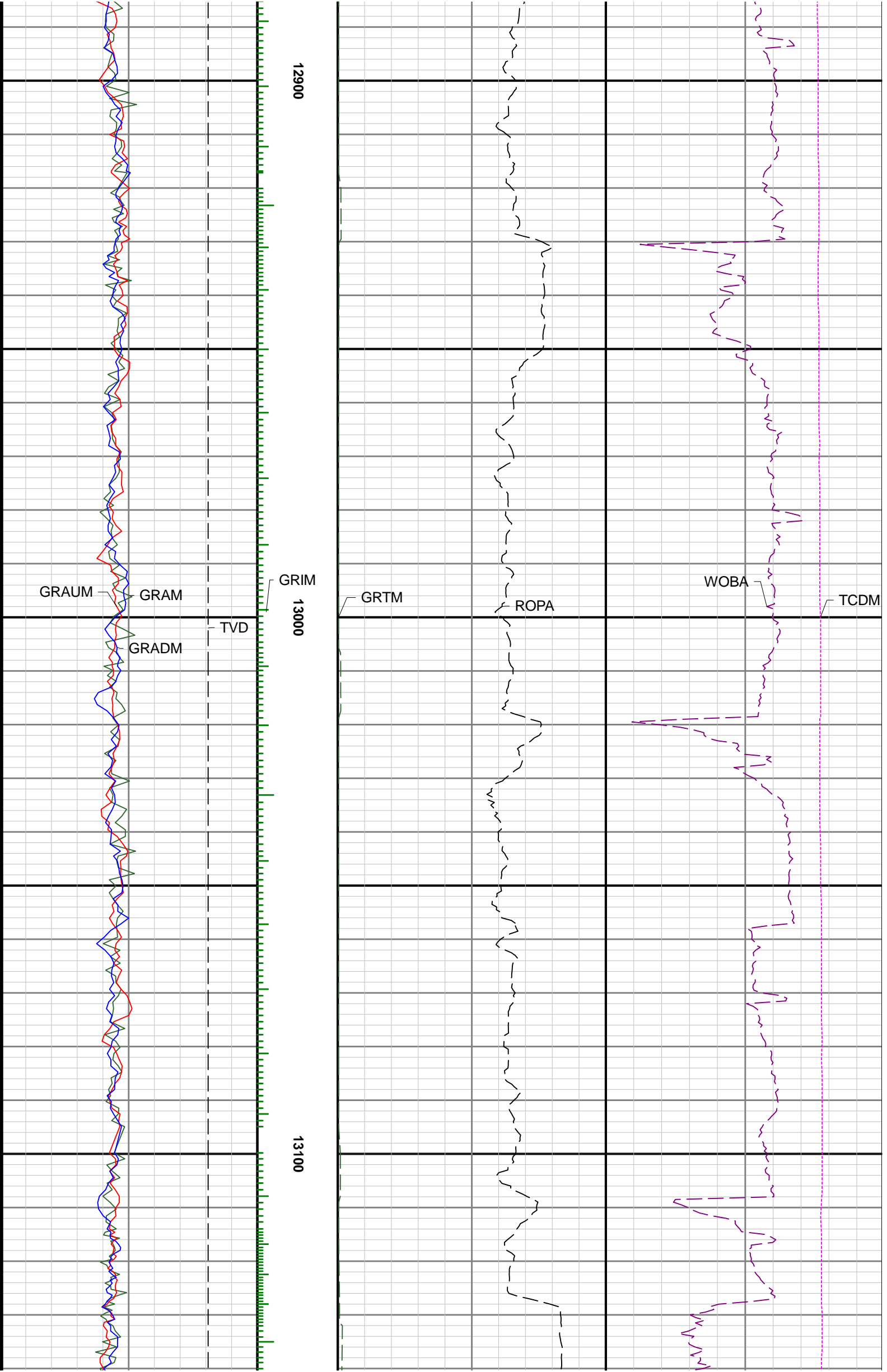


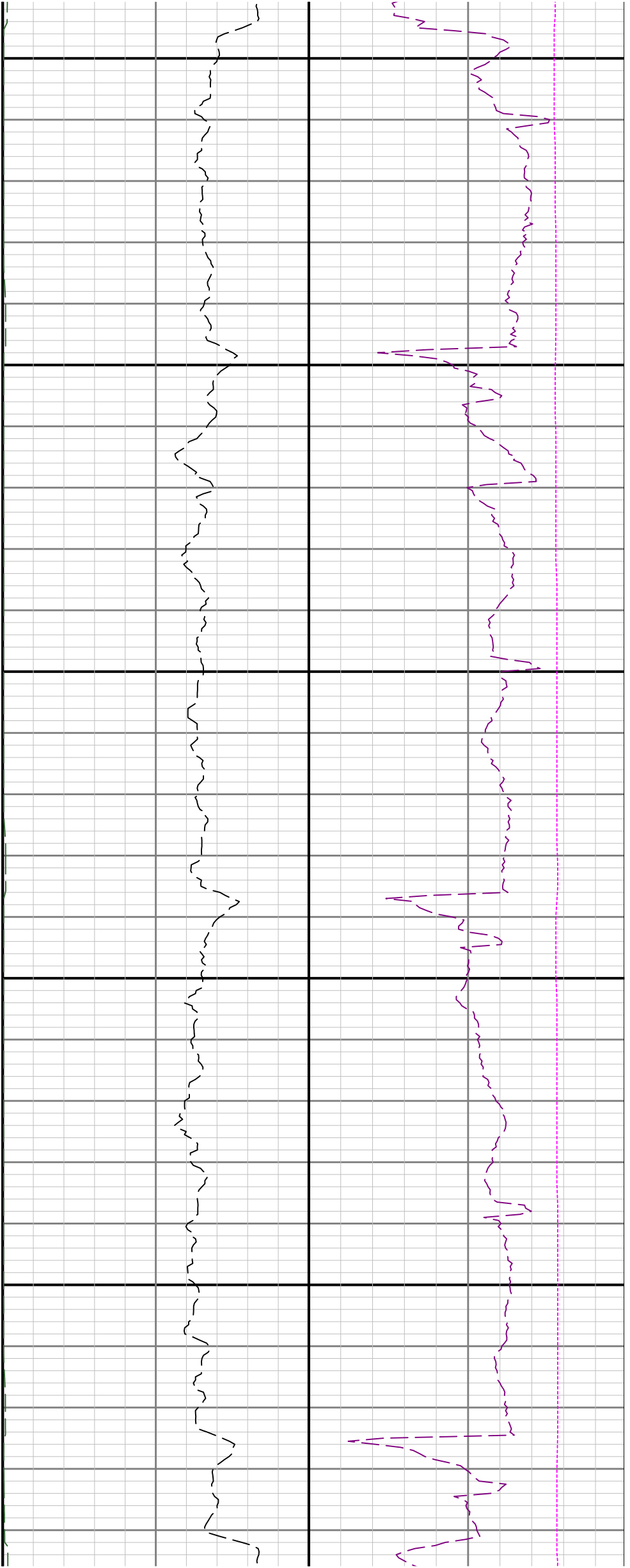






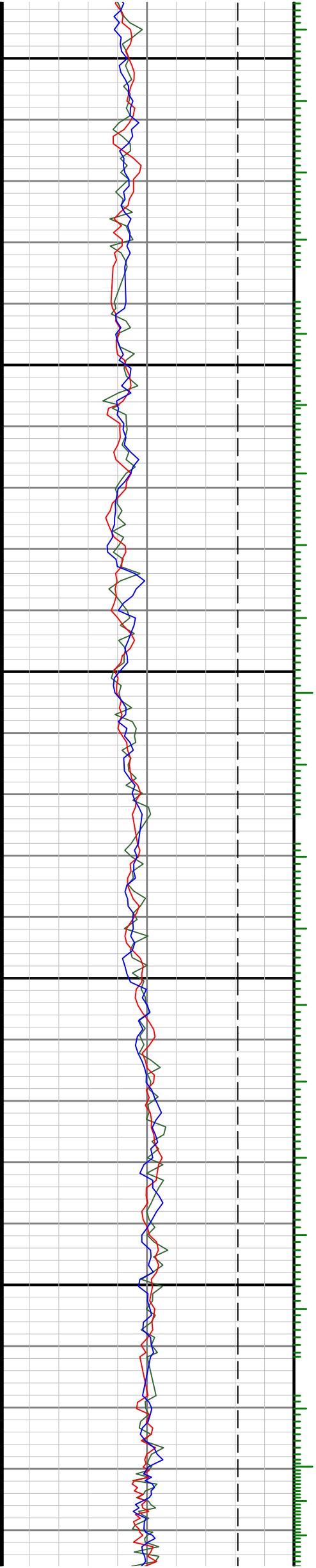




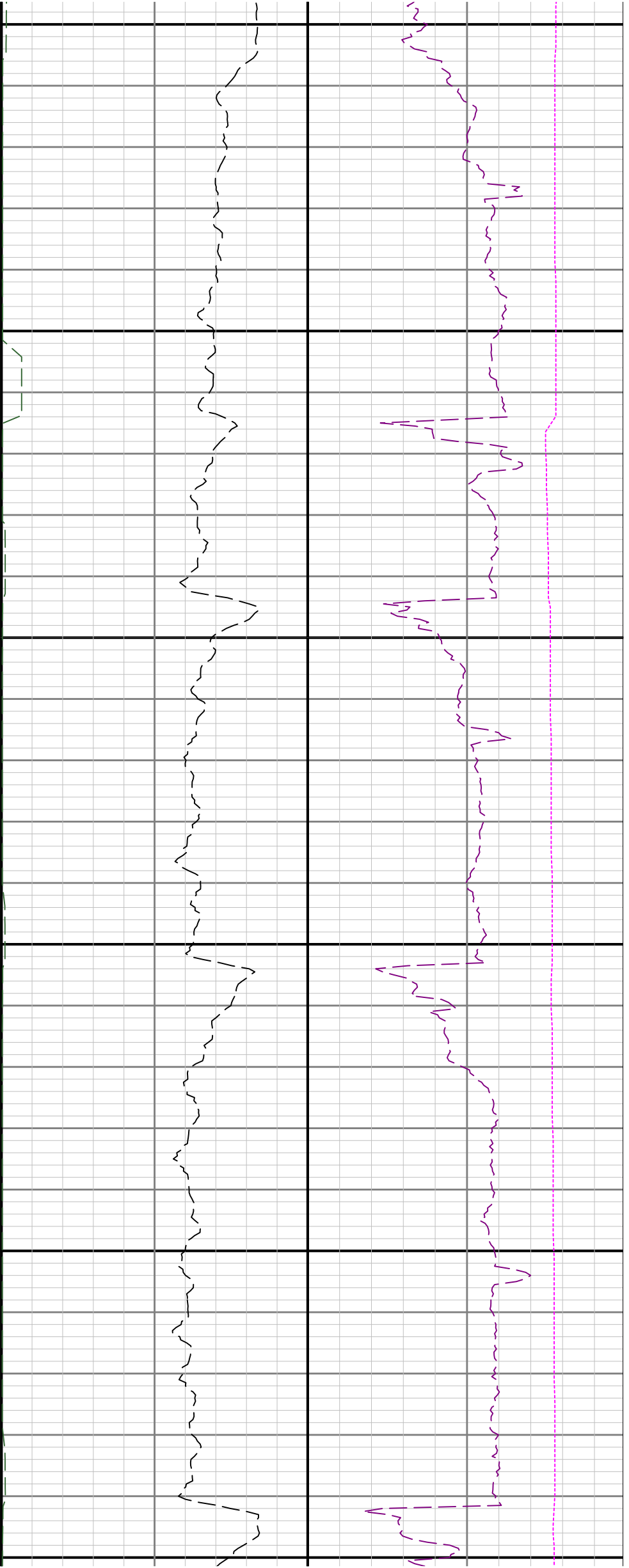


13200

13300







13400

13500

13600

