



LWD MEMORY LOG

Gamma Ray

Company: SRC Energy

Well: Troutd 8C-23-M

Field: DJ Basin

County: Weld County Country: United States

State: Colorado

Status:

Final Print

Surface Location:
Latitude:
Longitude:

040° 27' 52.531" N
104° 46' 01.945" W

Other Services:

API No:

05-123-46244

Directional

Job ID:

9189399

SEC:

27

TWN:

6N

RGE:

66W

Permanent Datum (P.D.):

Ground Level

Elevation:

4719.00 ft

Elev. KB:

4744.00 ft

Elev. DF:

4719.00 ft

Log Measured From:

Rig Floor

Above P.D.

25.00 ft

Elev. GL:

4719.00 ft

Dates

Interval Drilled

Magnetic Field Reference

Date From:

2018-08-29

Top: (ft)

1841.00

Azi Reference North:

True

Dip Angle: (deg)

66.77

Date To:

2018-09-02

Bottom: (ft)

15140.00

Total Magnetic Field Strength: (nT)

52385

Mag to Reference North Correction: (deg)

7.55

Spud Date:

2018-06-03

Borehole Record

Casing Record

Hole Size (in)

From (ft)

To (ft)

Size (in)

Weight (lb/ft)

From (ft)

To (ft)

13.500

25.00

1841.00

9.625

36.00

25.00

1809.00

8.500

1841.00

15140.00

Mud Record

Deviation Record

Type

From (ft)

To (ft)

Hole Size (in)

Interval (ft)

Inc | Az (Start)

Inc | Az (End)

Diesel-Oil Based Mud

25.00

15140.00

13.500

1820.00

0.00 | 134.70

12.56 | 22.18

89.78 | 89.13

Acquisition System

Software Version

Baker Hughes Cadence

RT 4.2

Plot Studio

4.2.8155.1

Other

Rig: PD562

Contractor: Precision Drilling

District: RMD

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 (h)
						Top (ft)	Bottom (ft)	From (ft)	To (ft)	Start Logging	End Logging	
2	2	8.500	PDC	3.00	AutoTrak Curve	1809.00	15127.00	1841.00	15141.00	2018-08-29 10:08	2018-09-01 01:08	55.02

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Garrett Gerdson	2018-08-29	2018-09-01						

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+ (%)
2018-08-29 03:00	2	1835.00	Diesel-Oil Based Mud	9.6	22	N/A	13.0	77/23	Active Pit	34000	0.00
2018-08-30 03:00	2	6505.00	Diesel-Oil Based Mud	9.5	17	N/A	16.0	75/25	Active Pit	31000	0.00
2018-08-31 03:00	2	10600.00	Diesel-Oil Based Mud	9.7	18	N/A	14.0	75/25	Active Pit	39000	0.00
2018-09-01 03:00	2	15140.00	Diesel-Oil Based Mud	9.9	19	N/A	11.0	74/26	Active Pit	38000	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	14192923	Near Bit VSS	5.93	6.73	7.000	4.330
2	ATC_SU	14192923	Near Bit Inclination	5.93	6.73	7.000	4.330
2	ATC_MWD	14219805	Gamma (single)	2.77	12.93	7.000	3.250
2	ATC_MWD	14219805	Directional (mag)	12.27	22.43	7.000	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

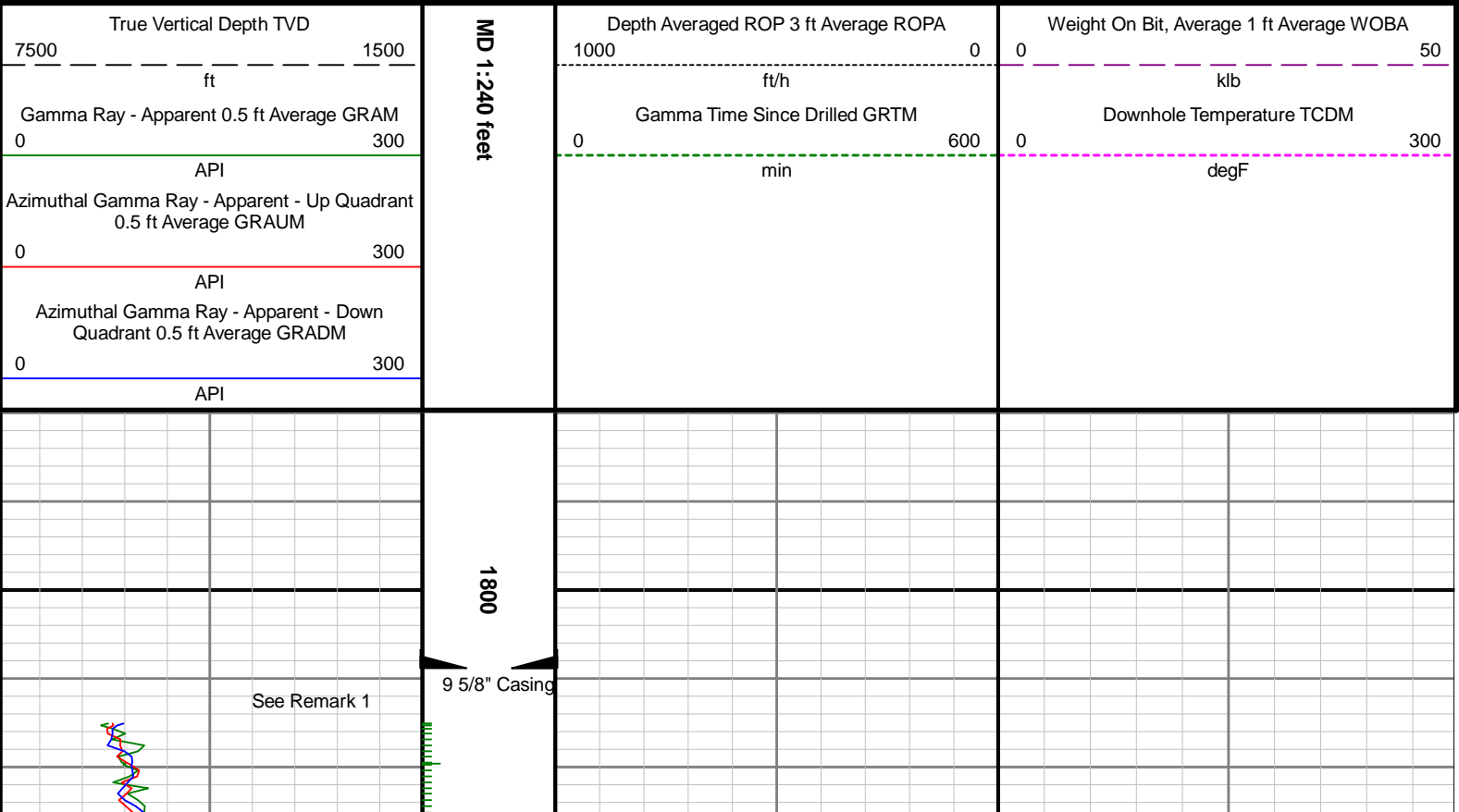
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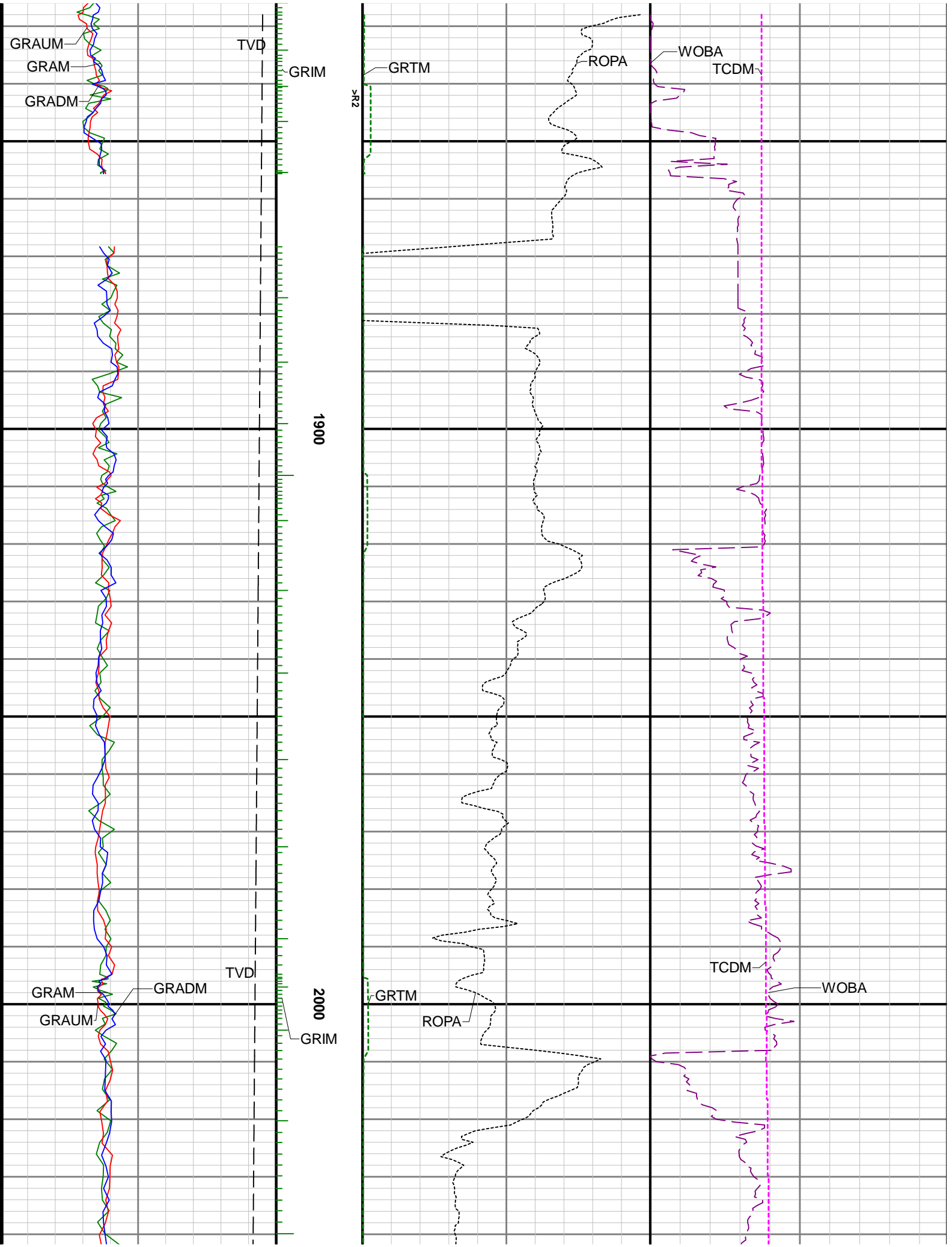
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|---|--|
| 1 | Depth measurements obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified. |
| 2 | Baker Hughes LWD Run 1 utilized 8 inch NaviTrak service (Directional only) behind a 13 1/2 inch bit and steerable assembly from surface to 1841 feet MD (surface to 1807 feet TVD). No logging data was acquired during this run. |
| 3 | Baker Hughes LWD Run 2 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 1/2 inch bit and rotary steerable assembly from 1841 to 15140 feet MD (1807 to 7115 feet TVD). |
| 4 | Gamma Ray Apparent (GRAM, GRAUM, GRADM) is presented 0 to 300 API per customer request. |

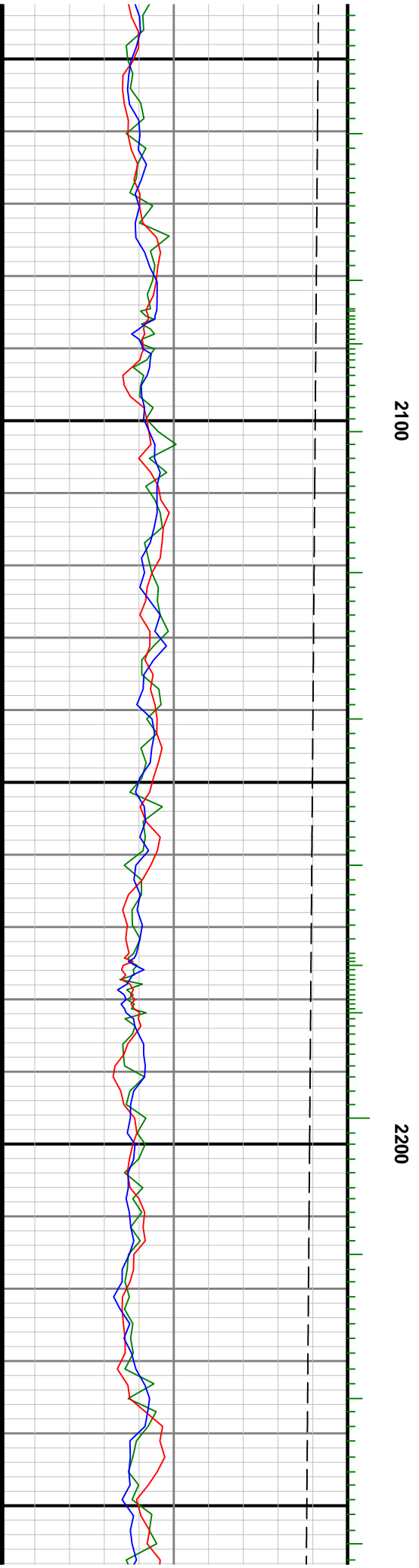
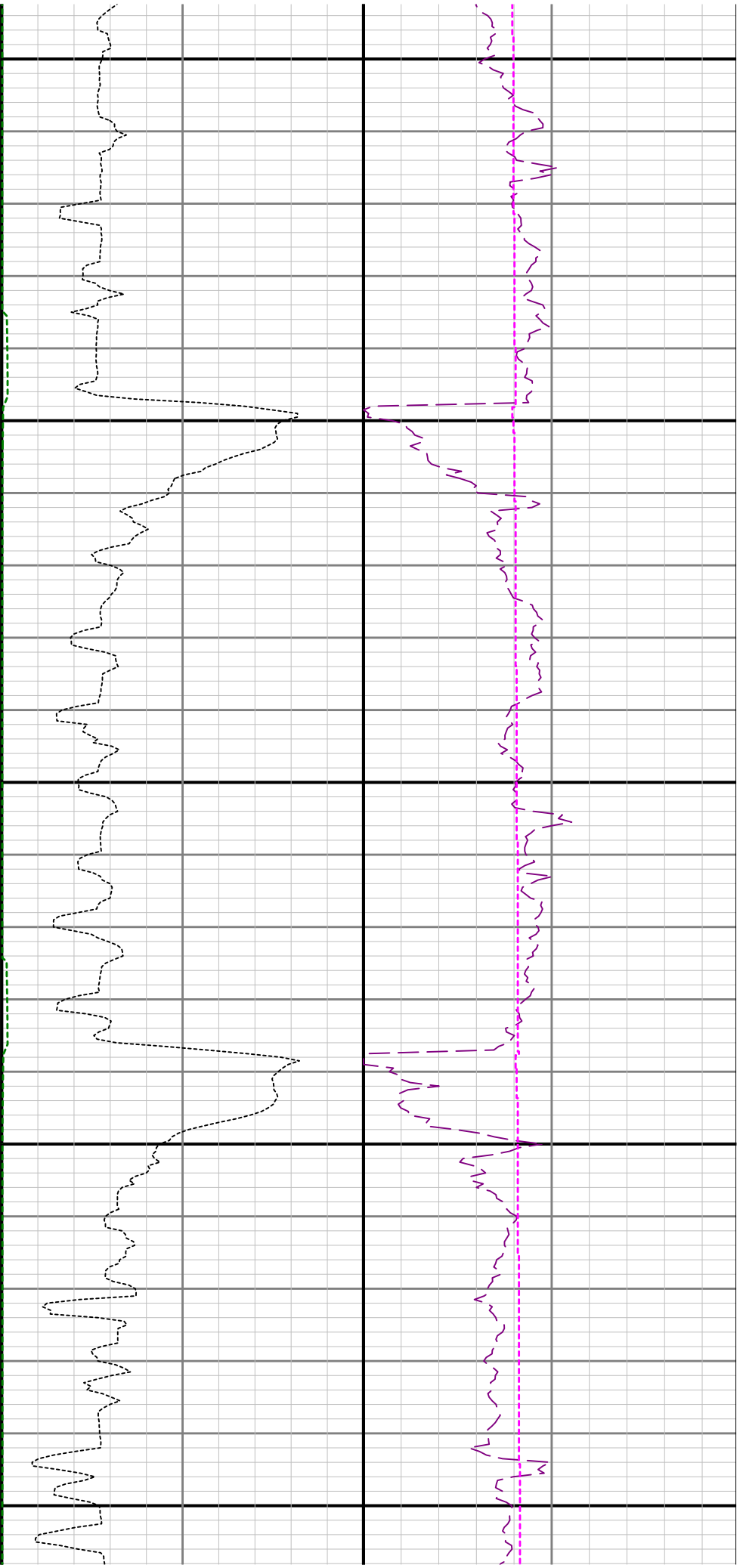
Remarks

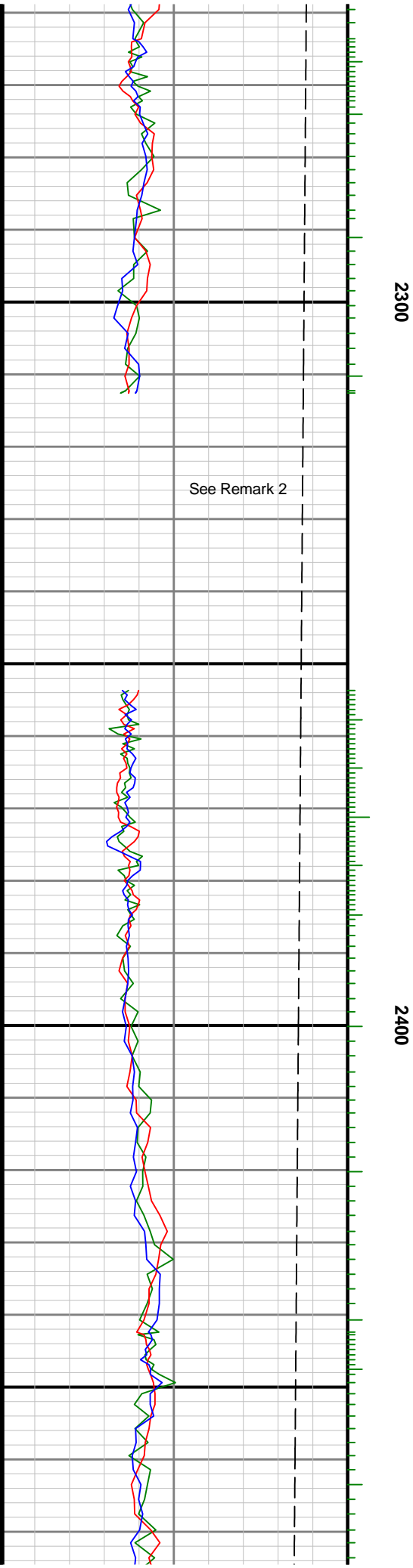
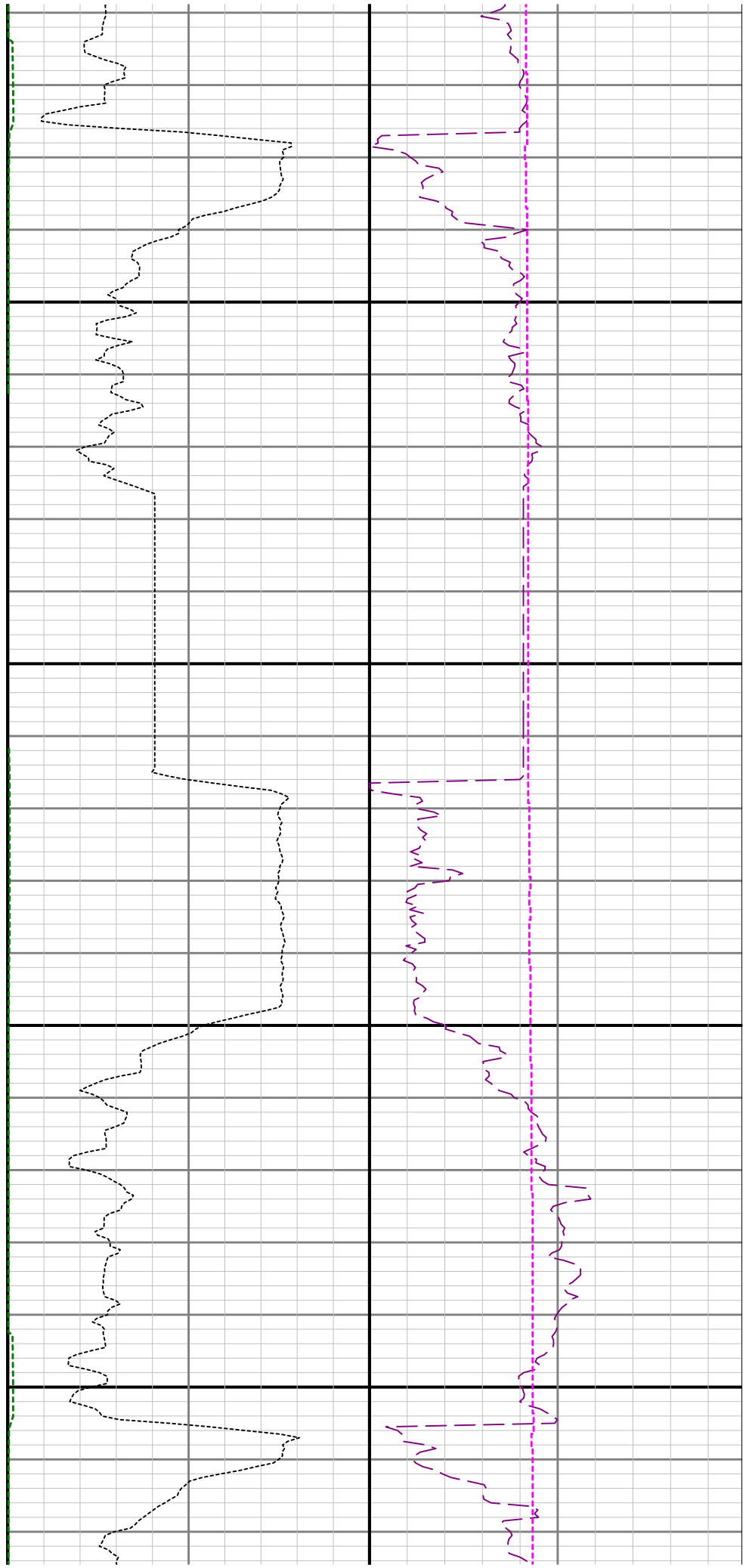
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	1815.00	8.500	2	Gamma Ray logging operations began at 1809 feet (1776 feet TVD).
2	2330.00	8.500	2	The interval from 2313 to 2353 feet MD (2265 to 2304 feet TVD) surface data was not logged due to lost communication with Pason.
3	15135.00	8.500	2	The interval from 15127 to 15140 feet MD (7115 feet TVD) was not logged due to sensor to bit offset at well TD.

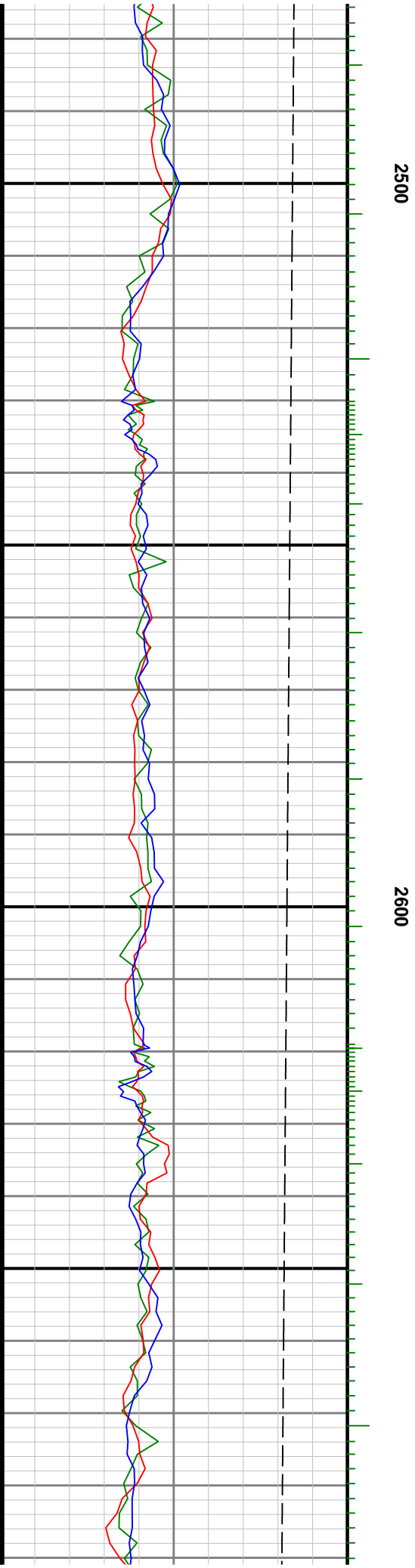
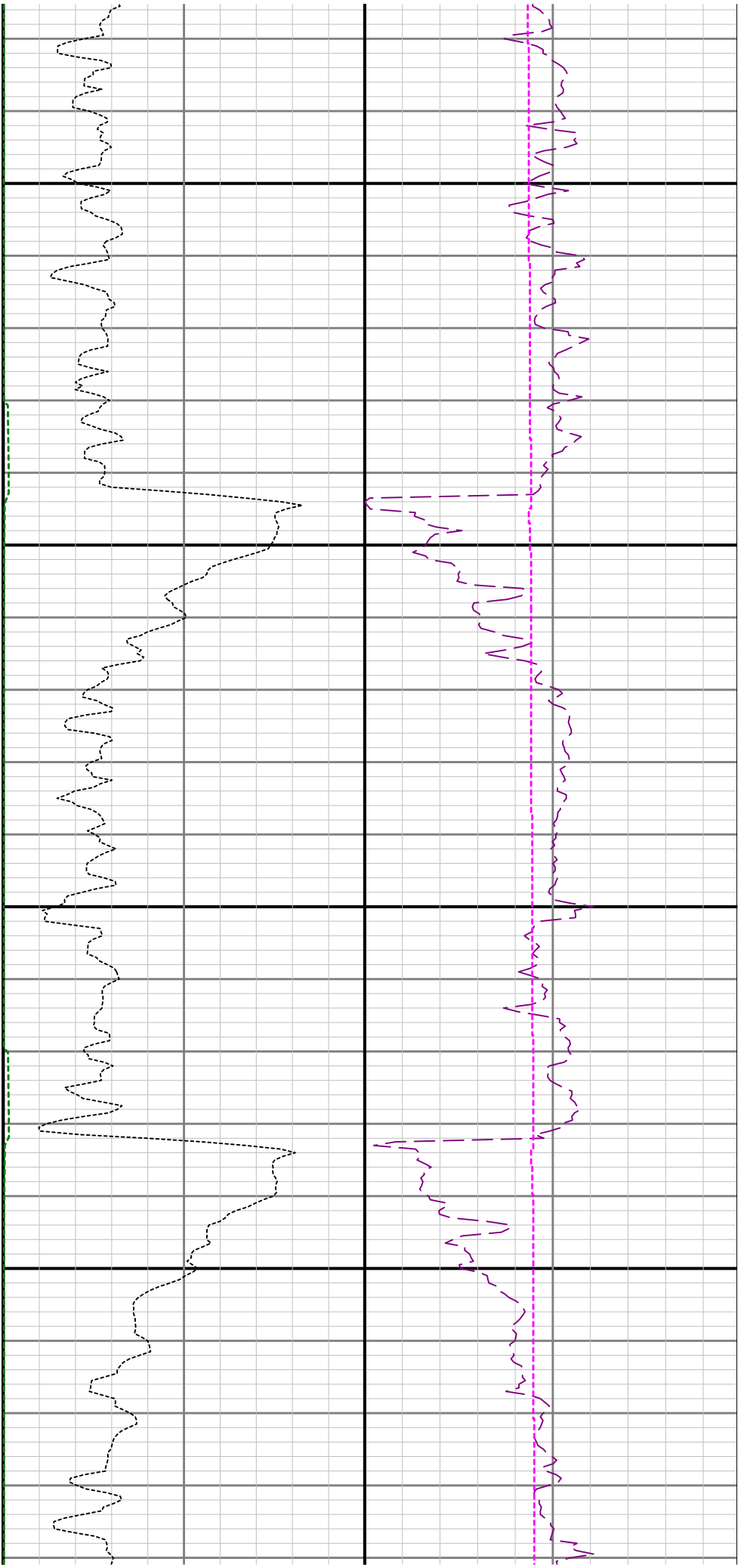
 	Company	SRC Energy			
	Well	Troudt 8C-23-M			
	Interval	Date From:	2018-08-29 07:30	Top:	1841.00 ft
		Date To:	2018-09-02 15:36	Bottom:	15140.00 ft
Created	2018-09-02 16:38:23				

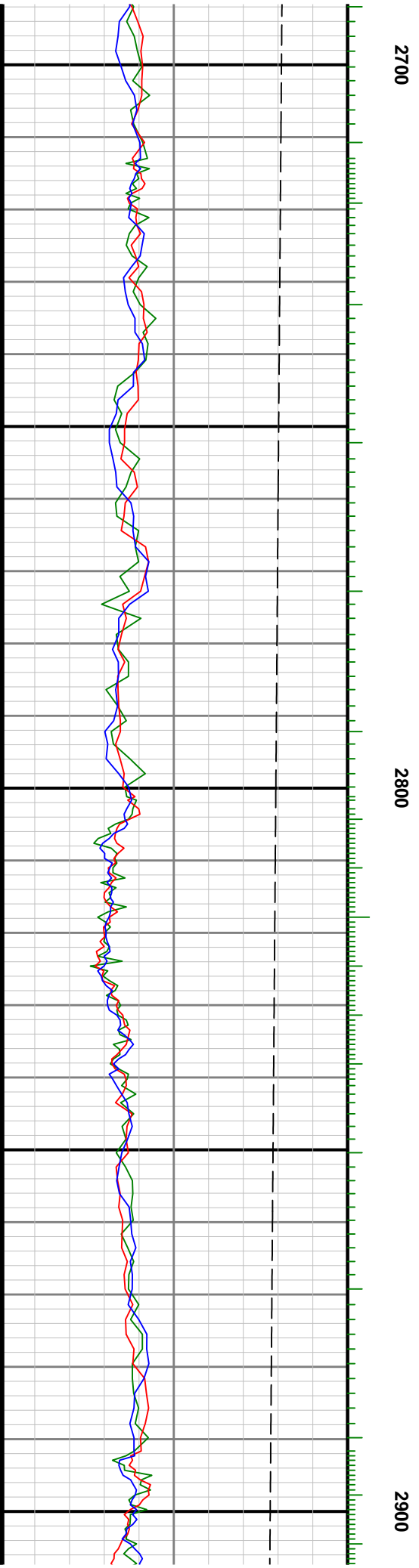
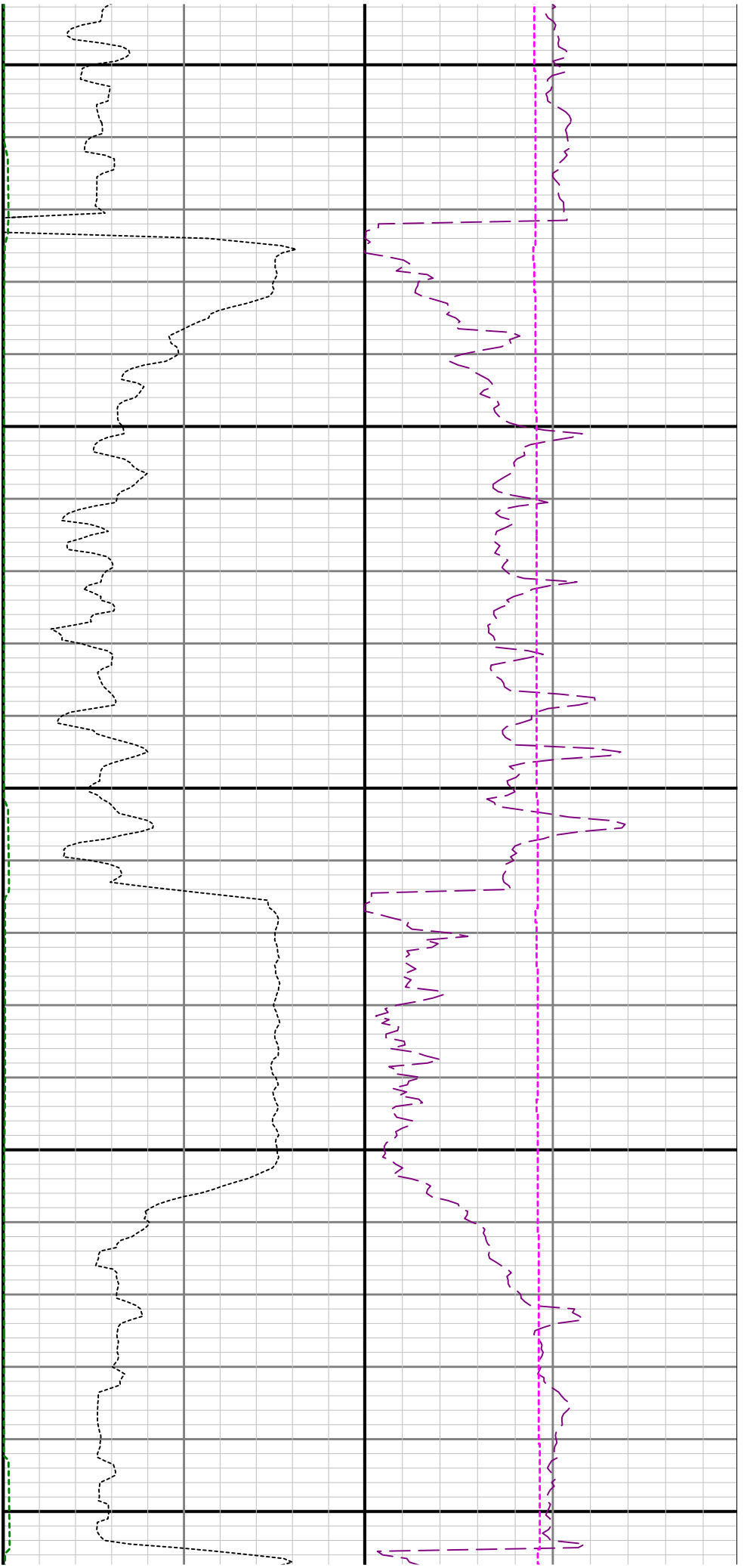


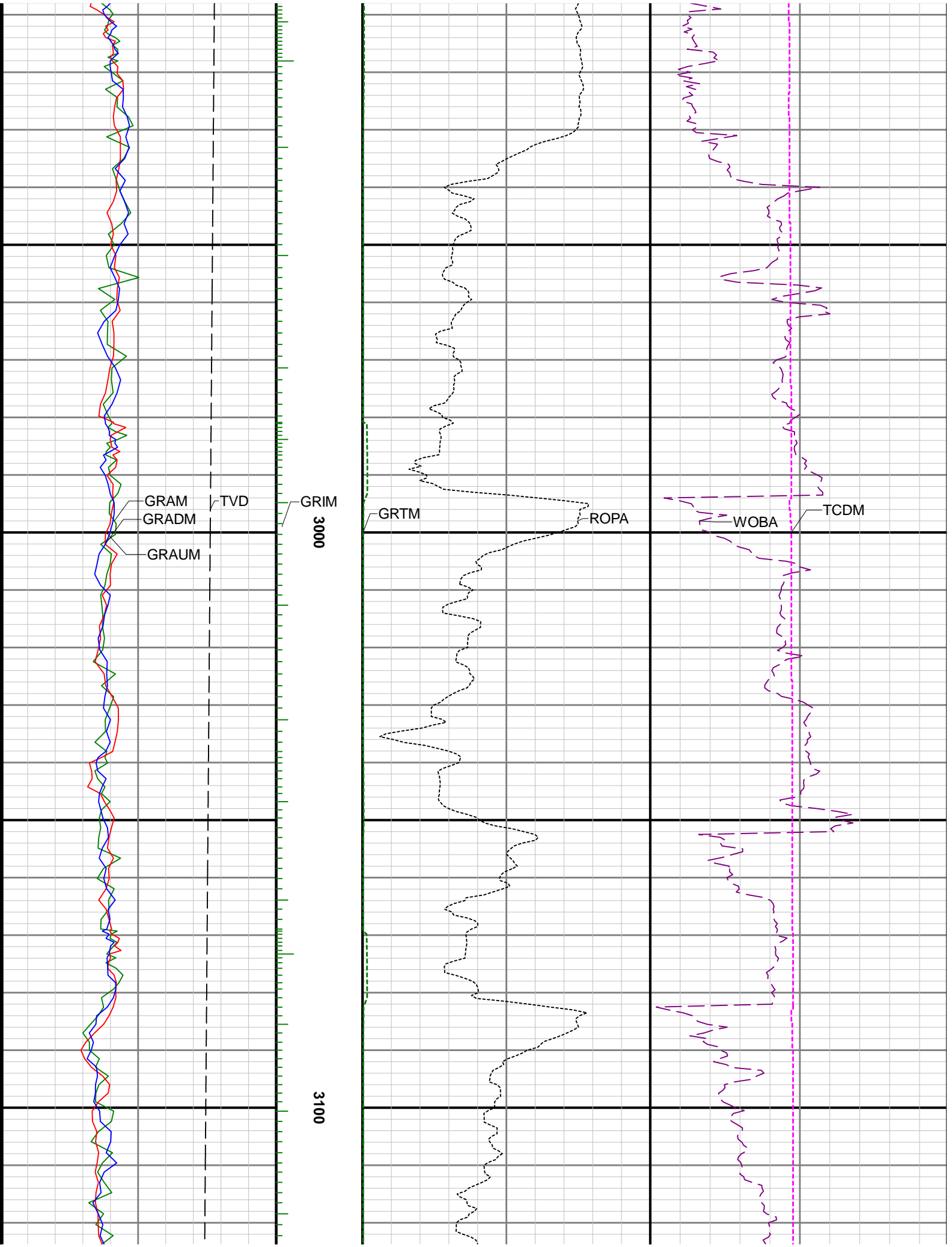


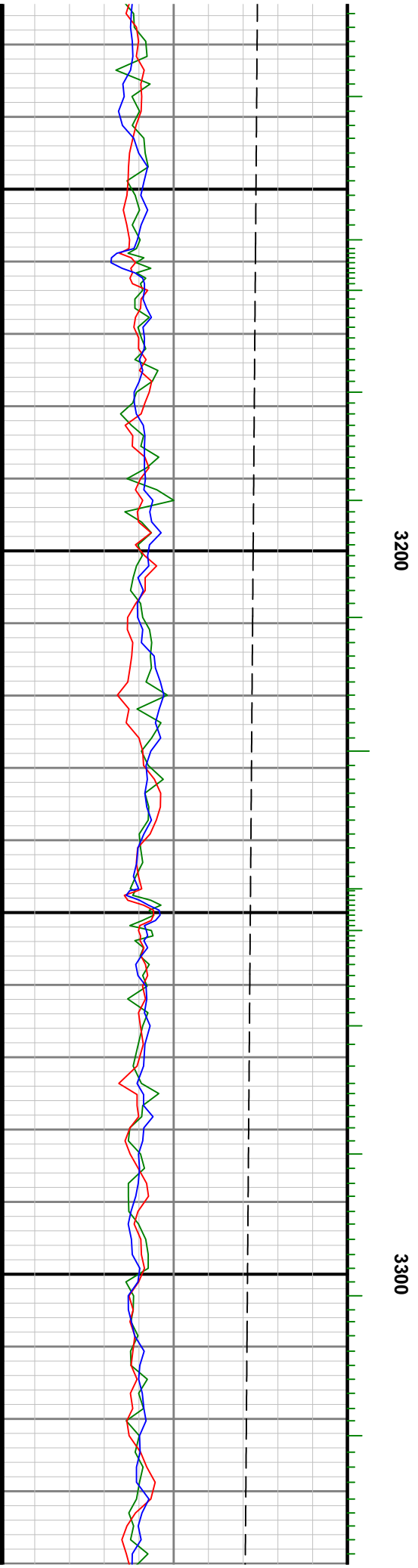
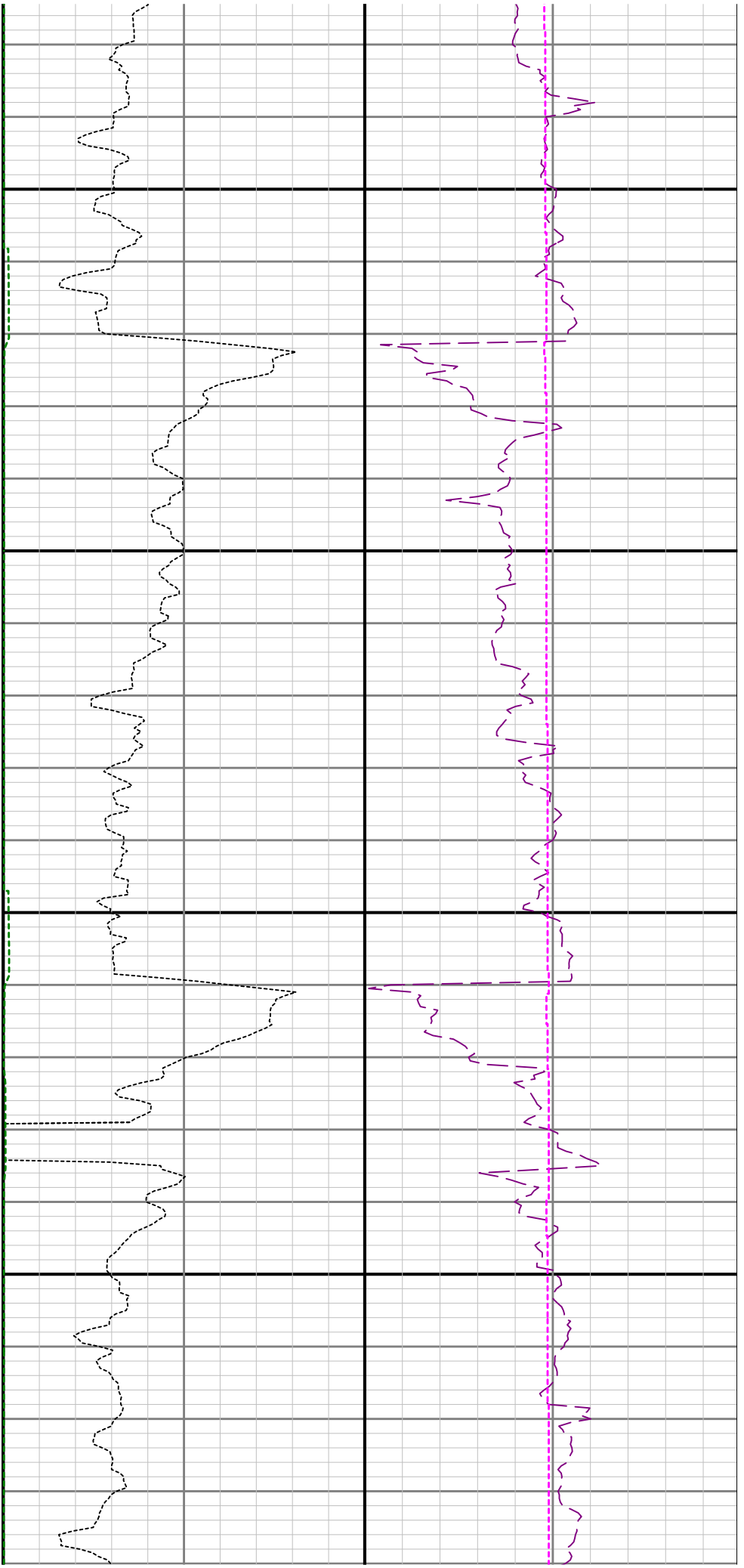


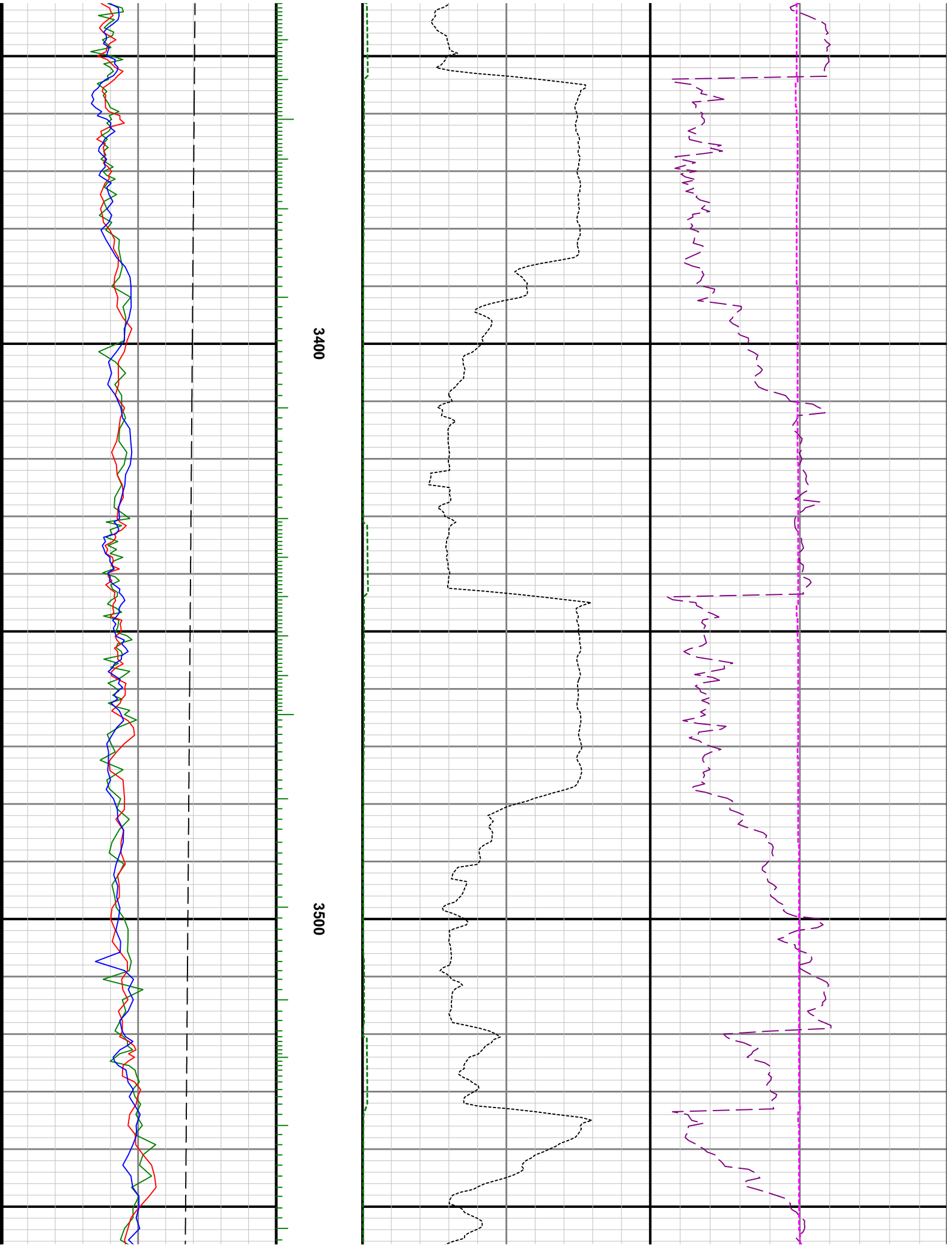


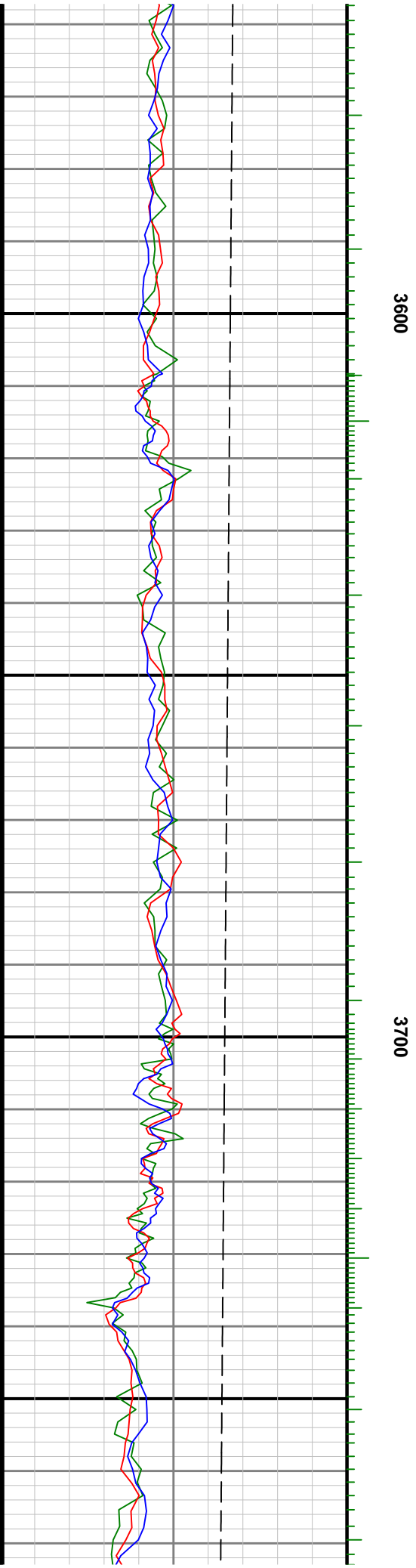
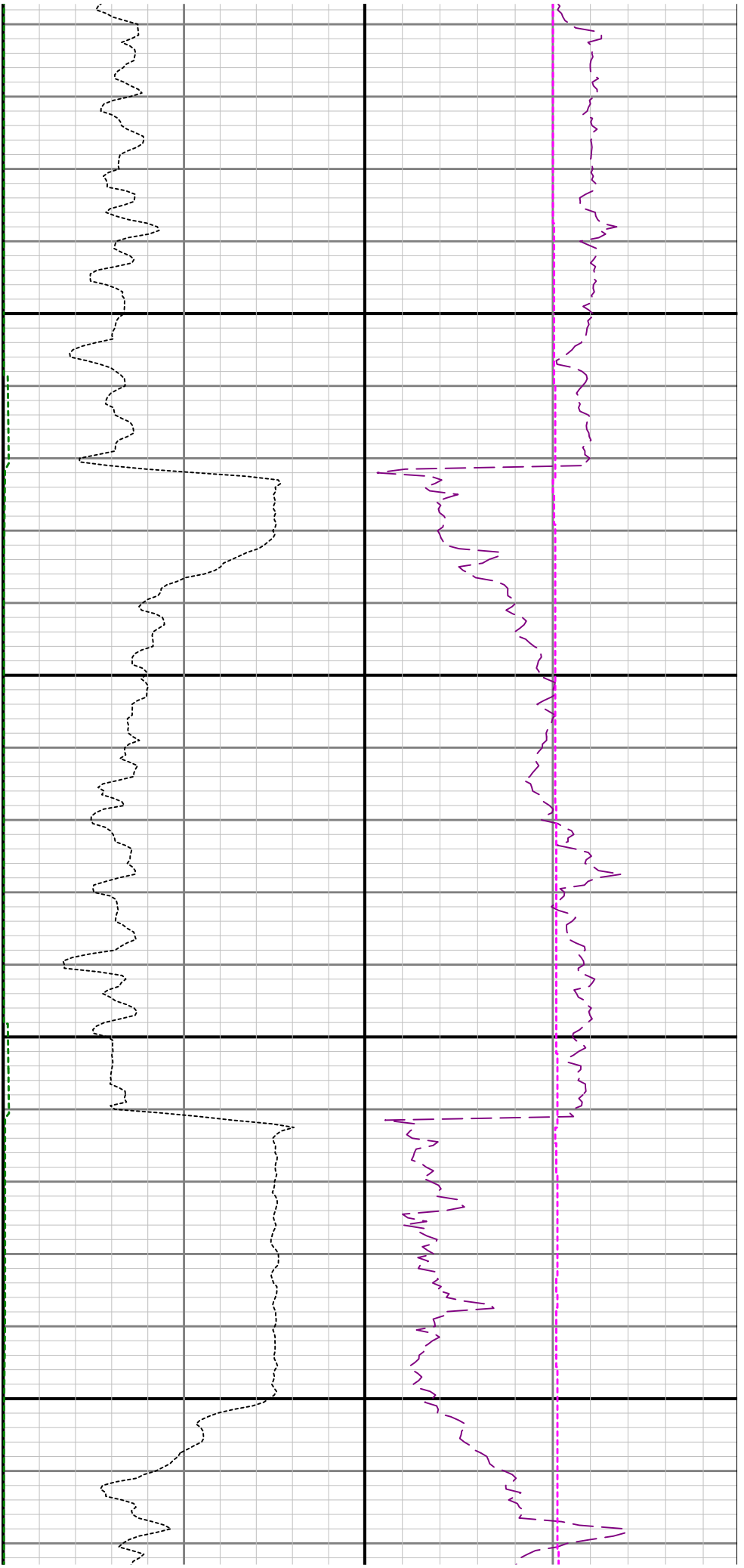


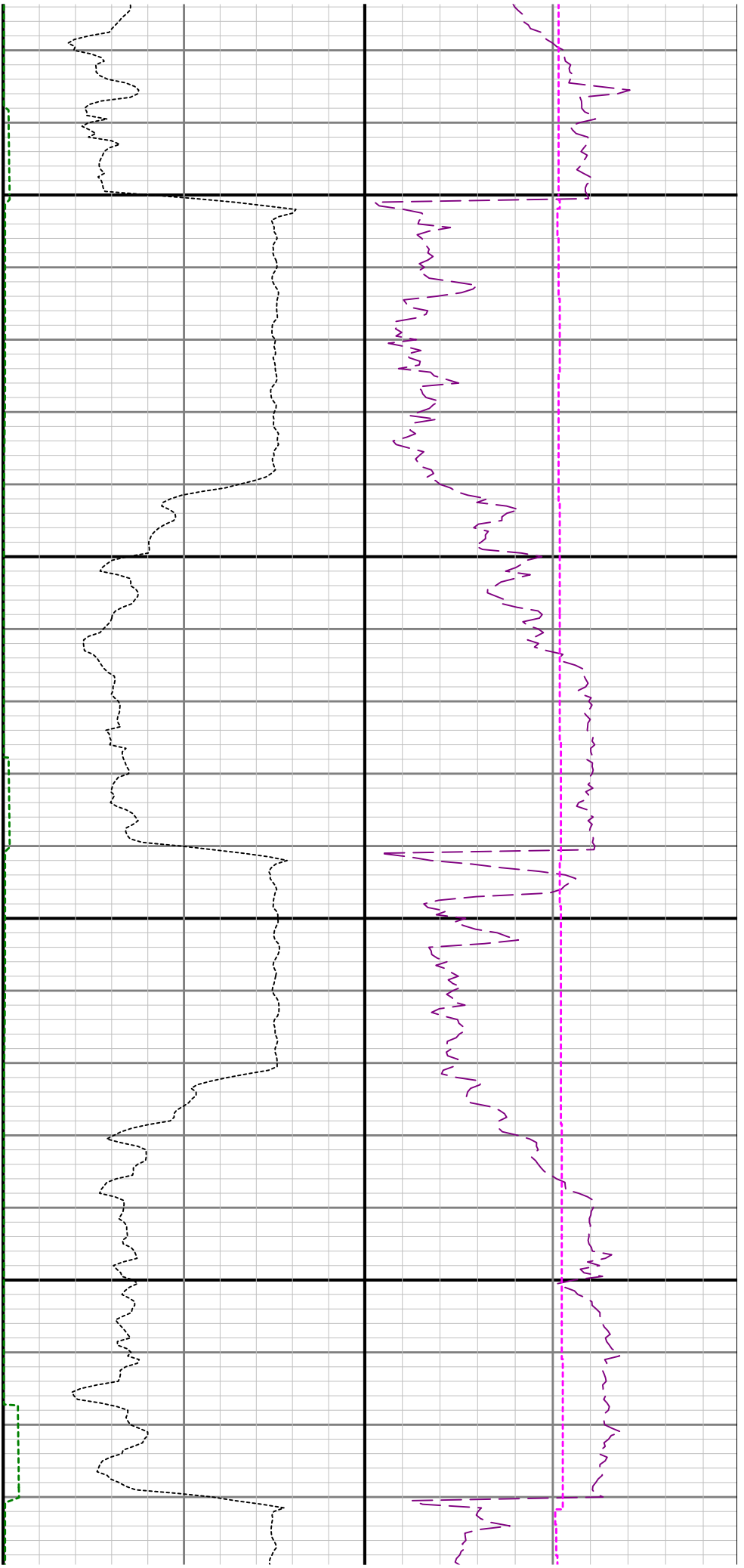






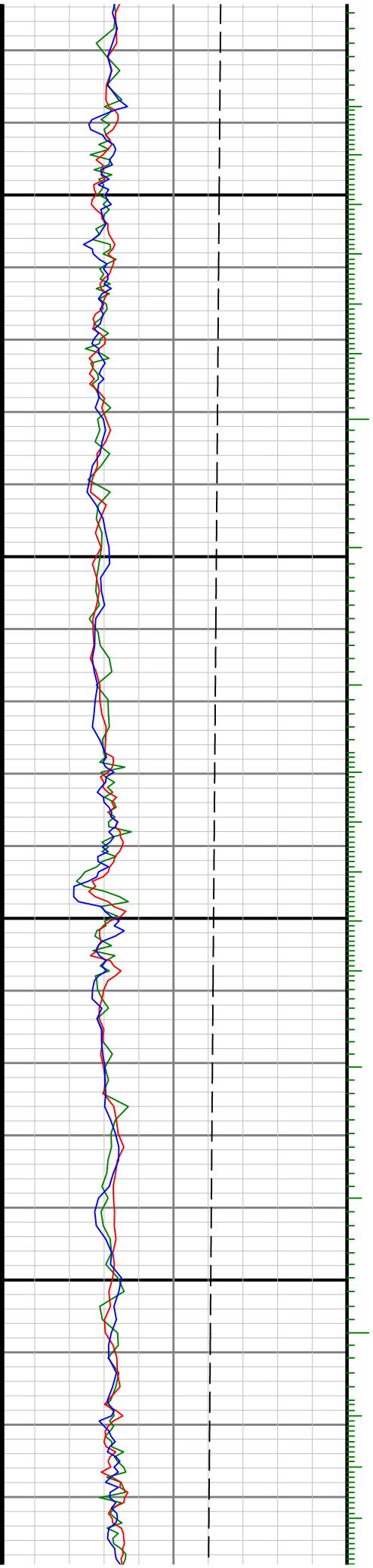


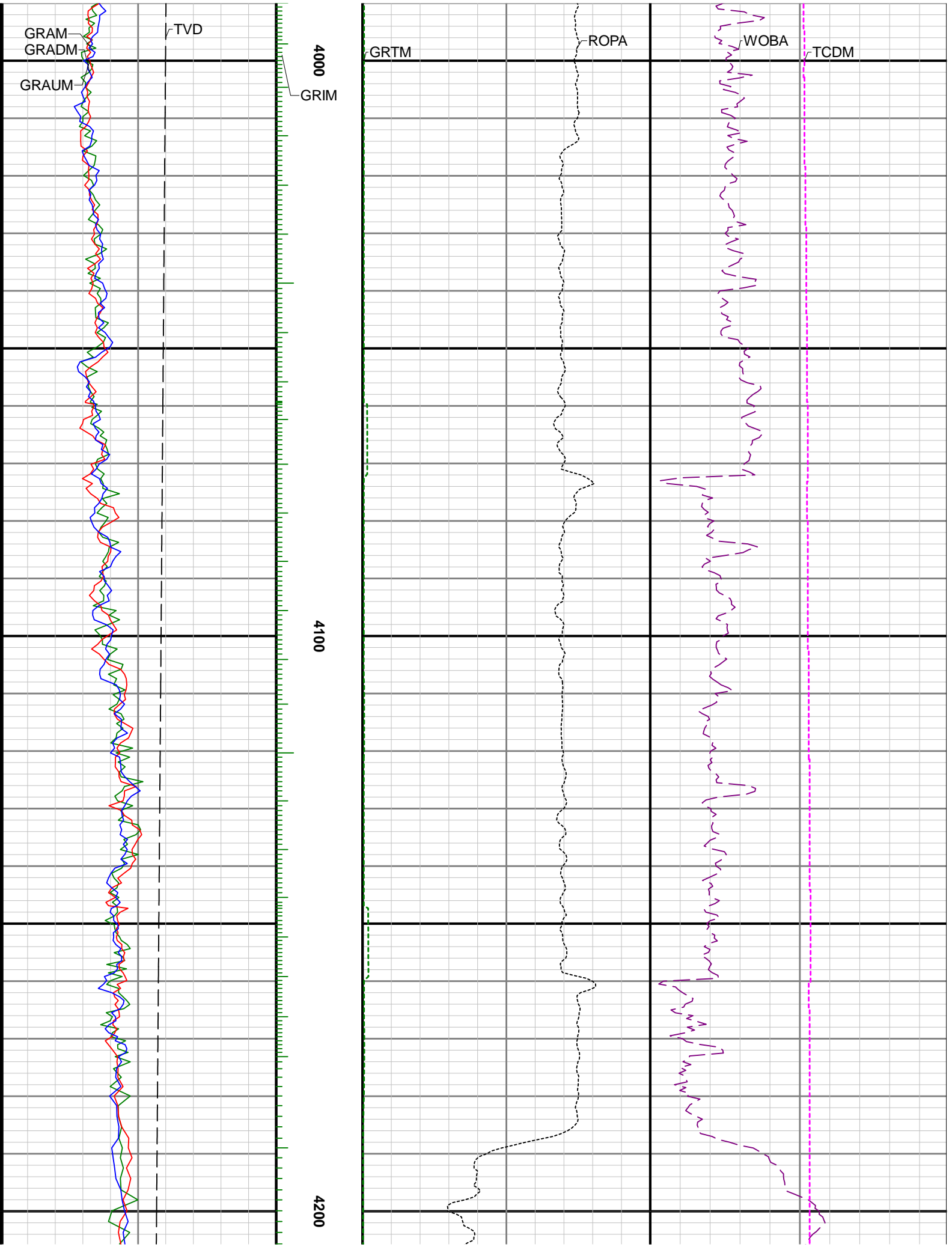


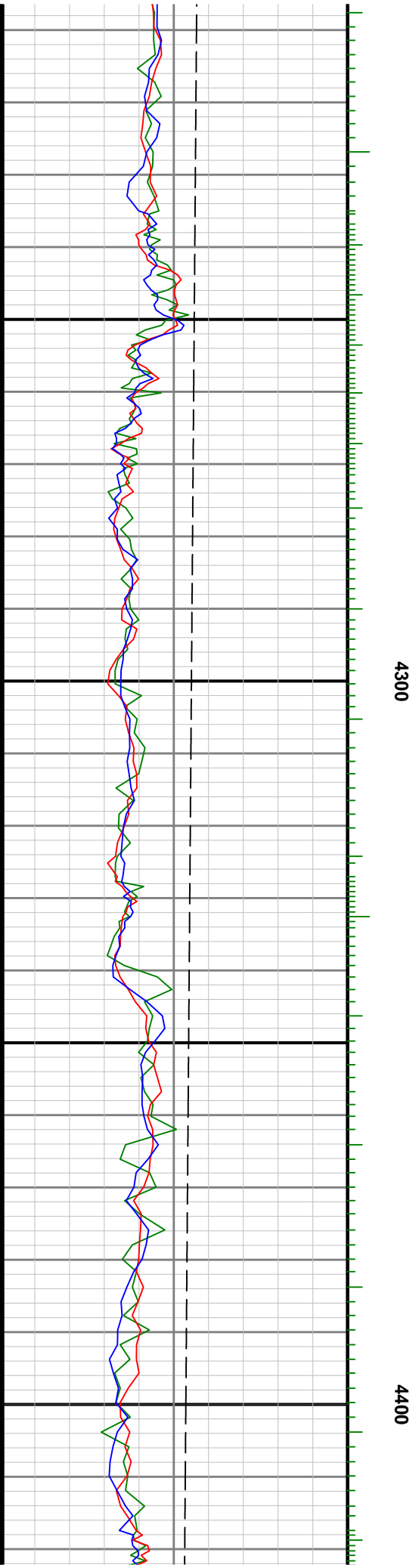
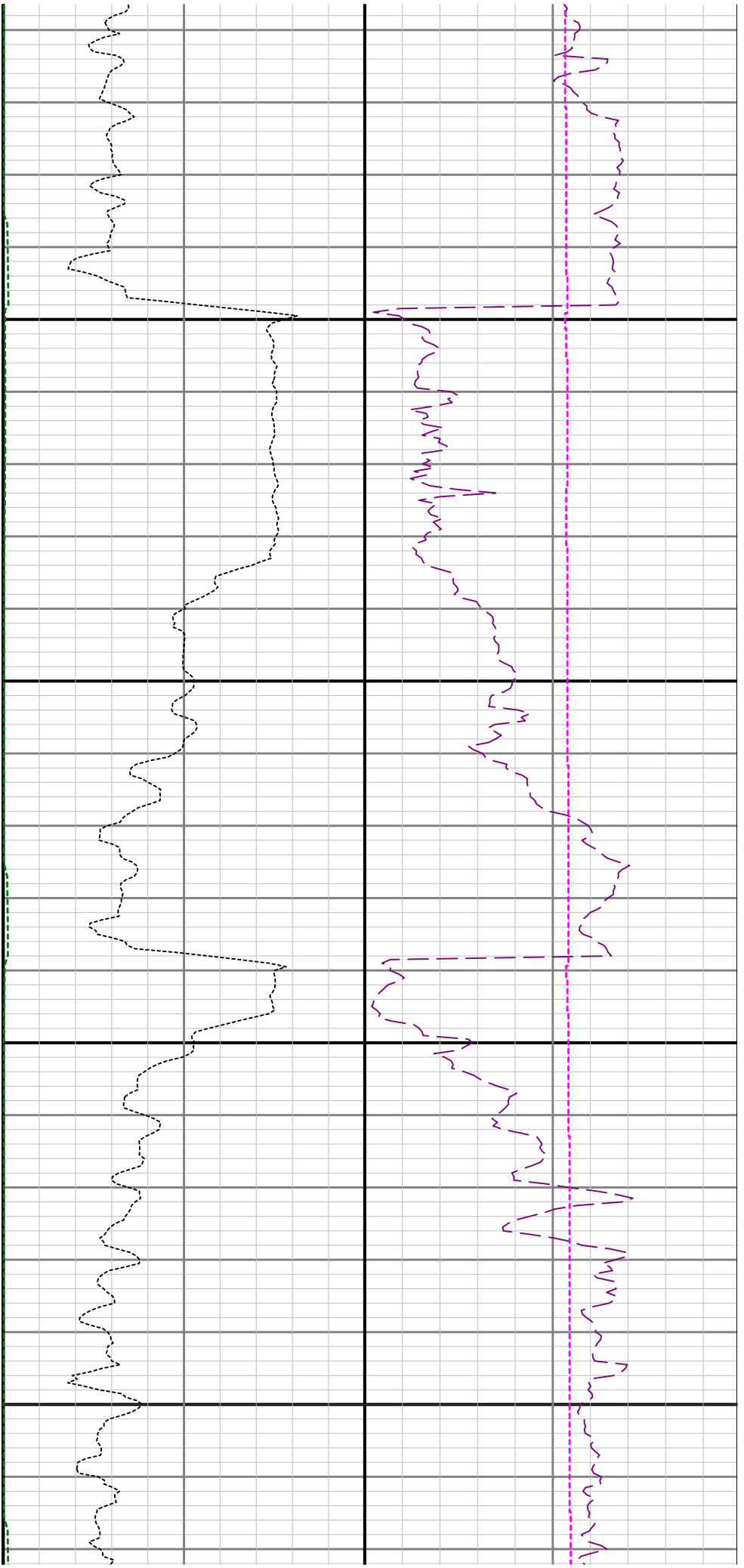


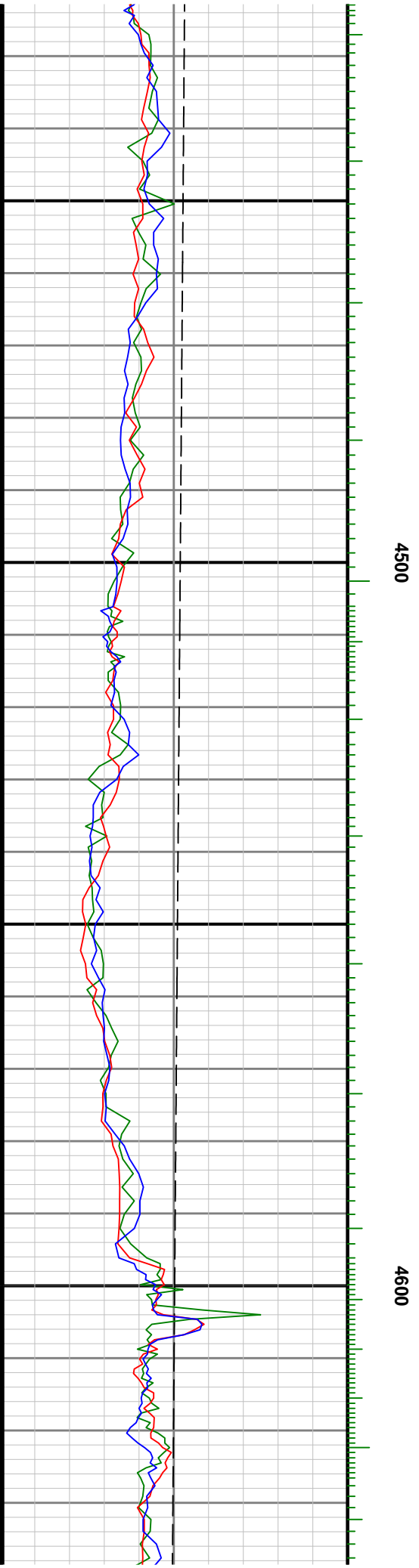
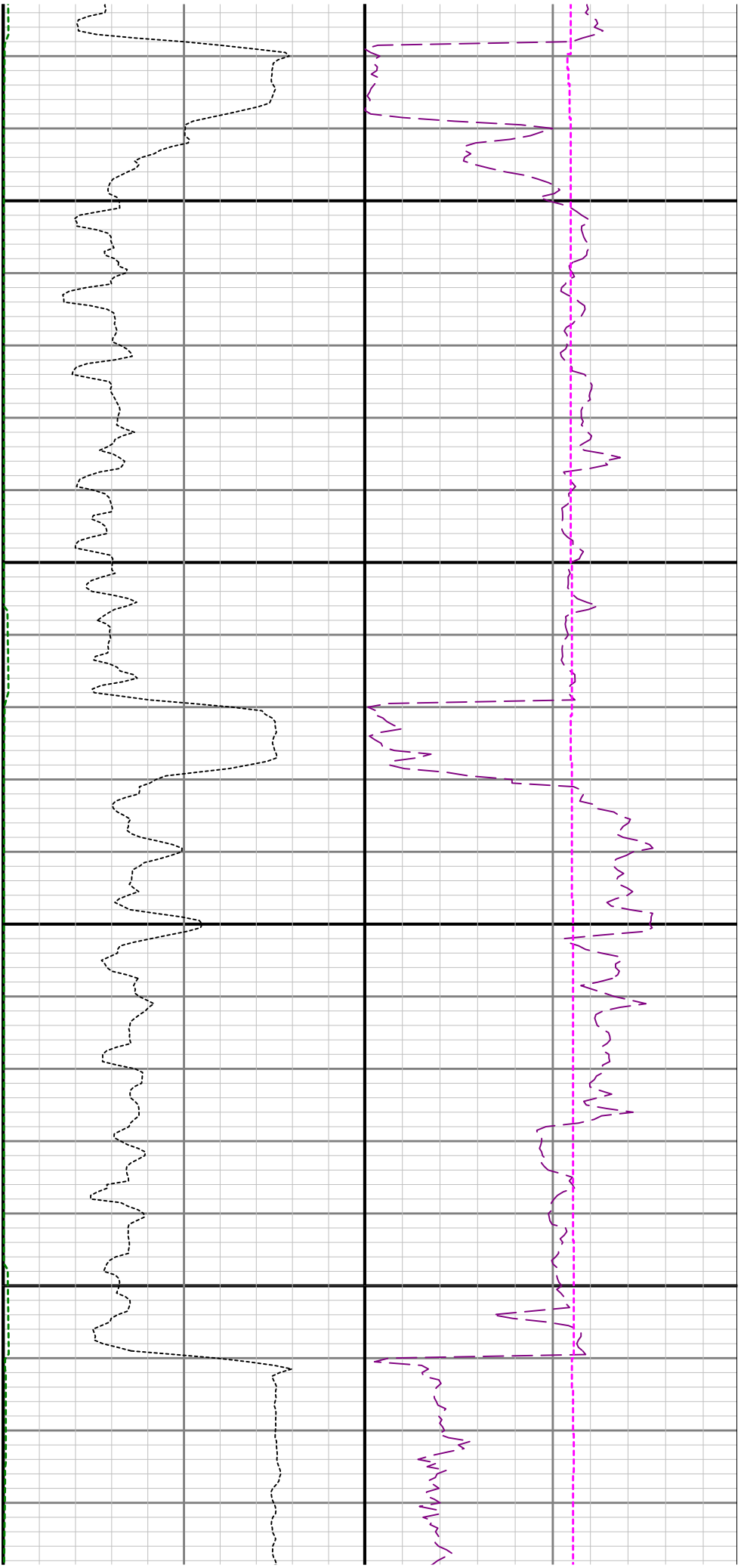
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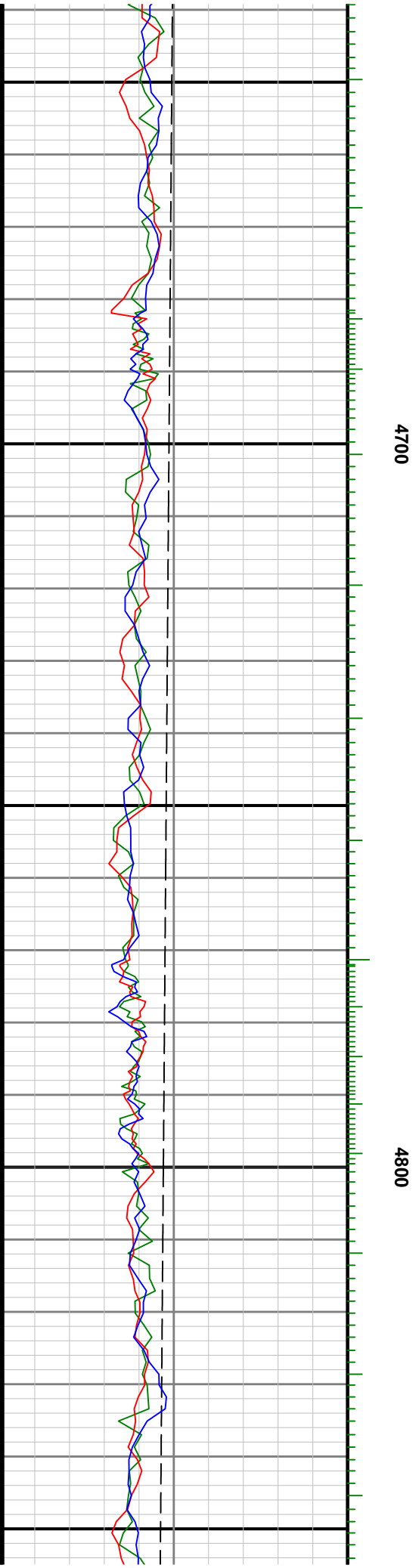
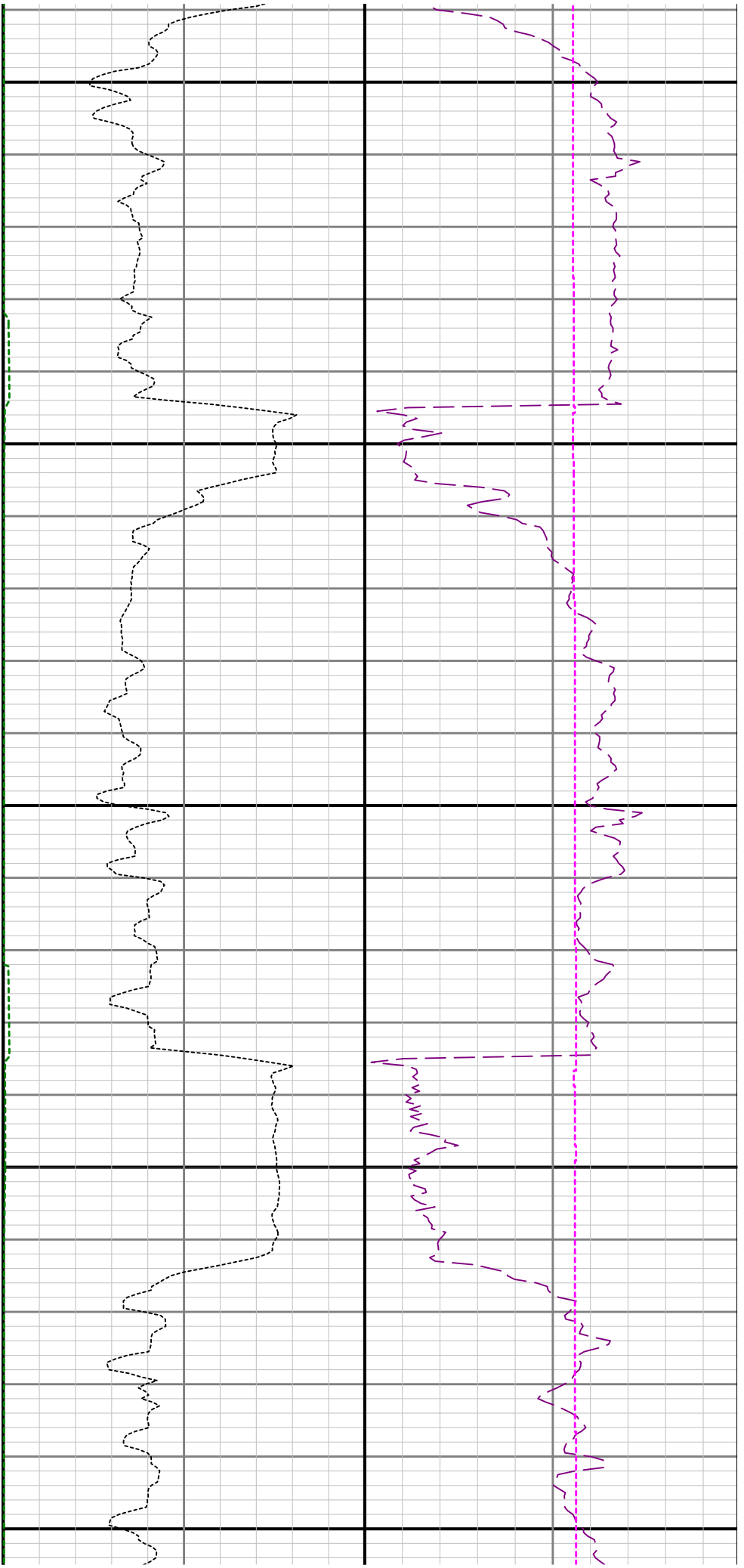
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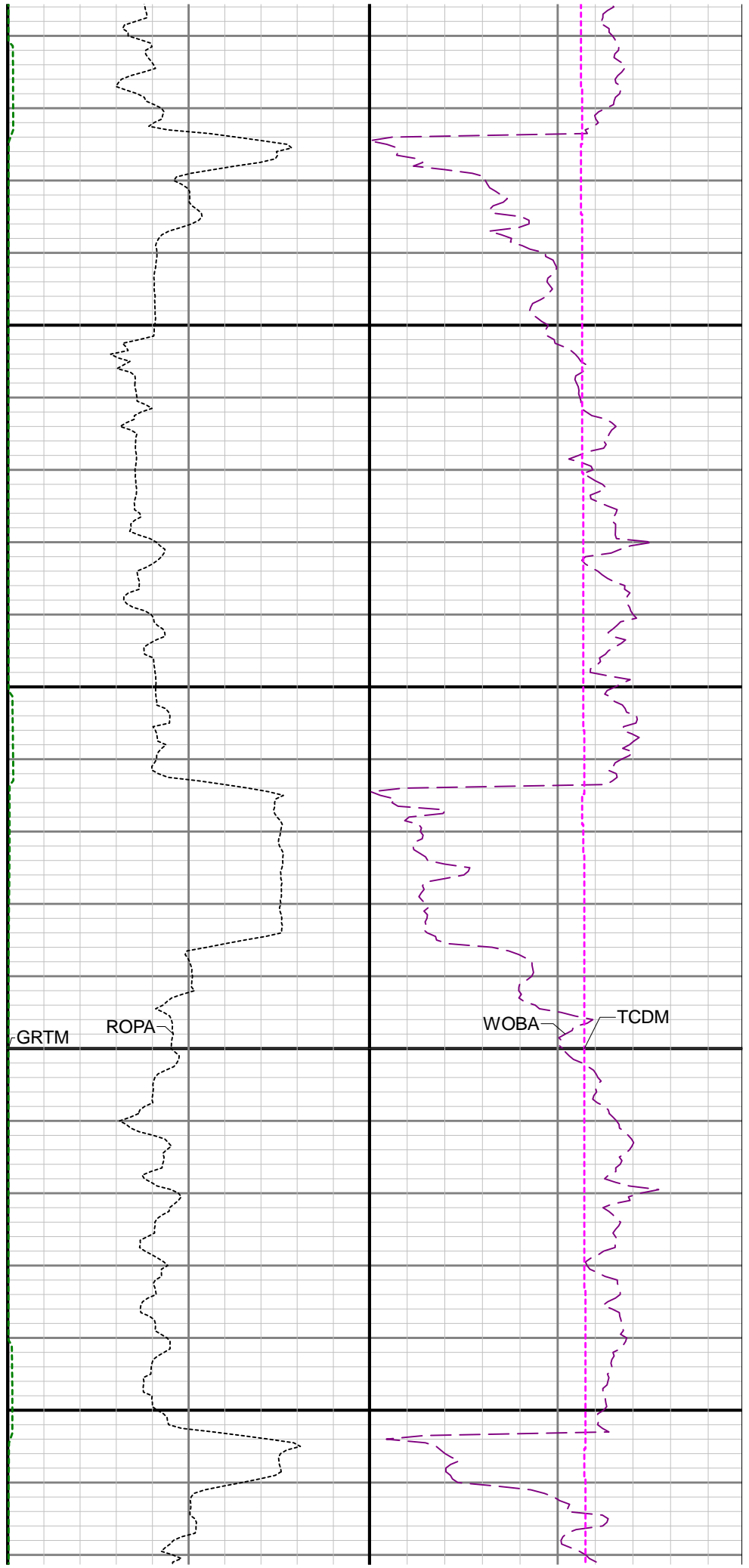
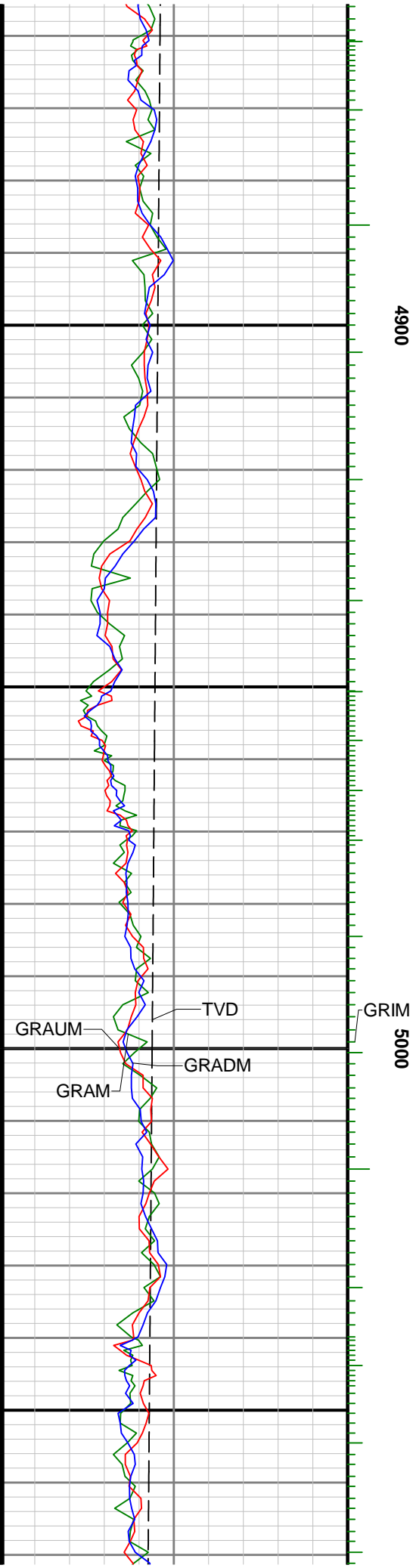


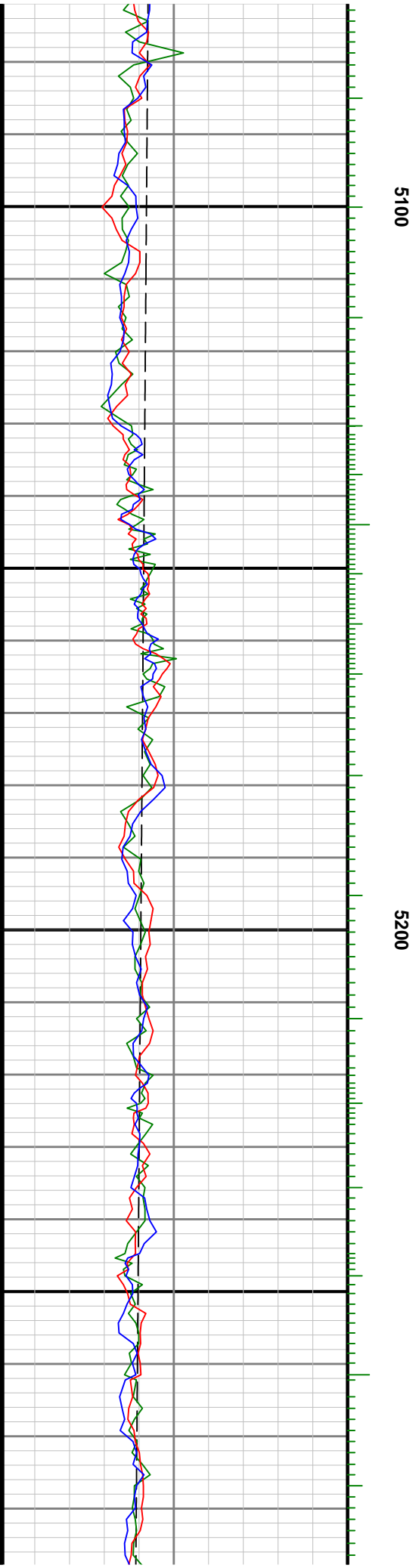
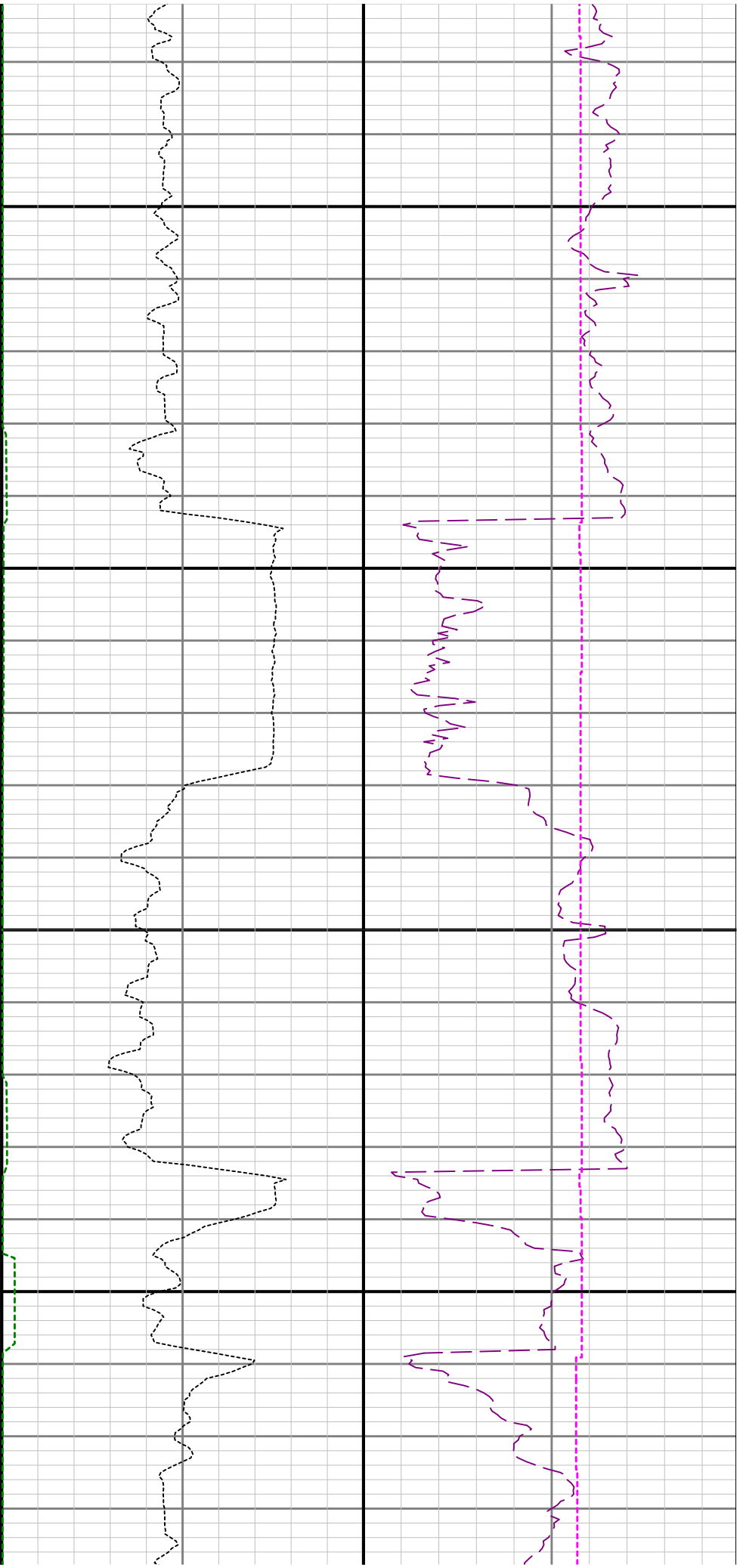


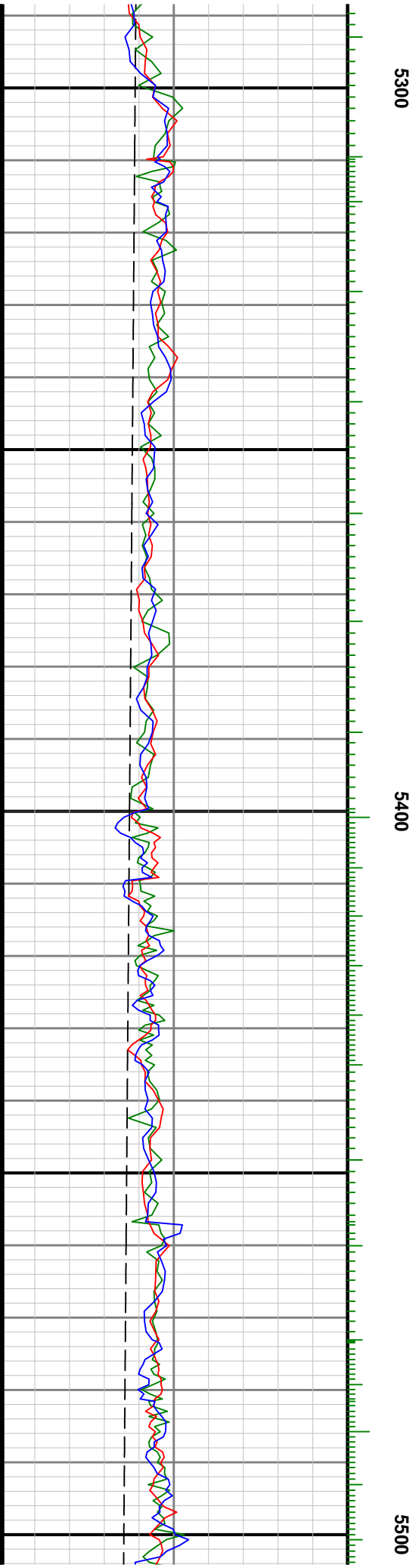
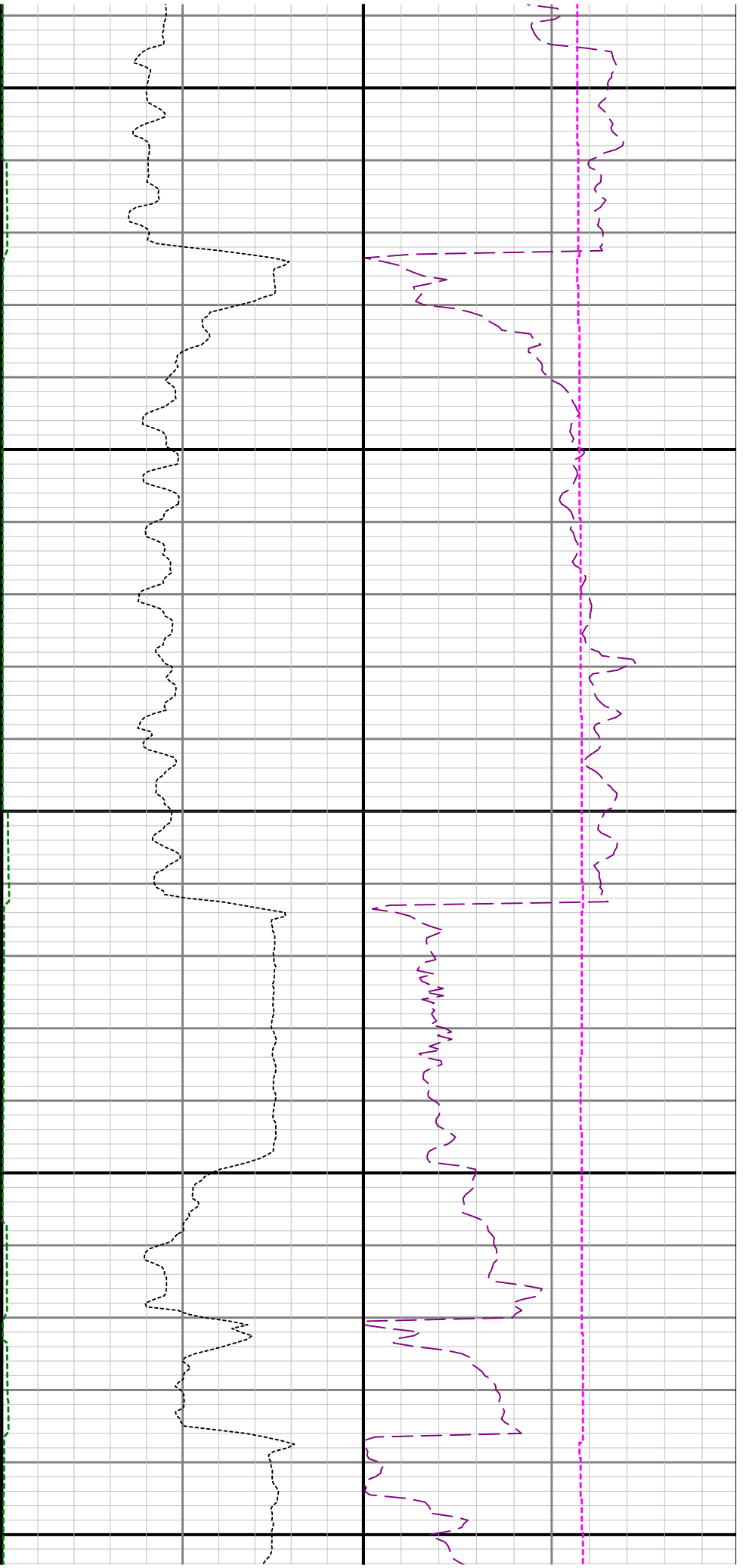


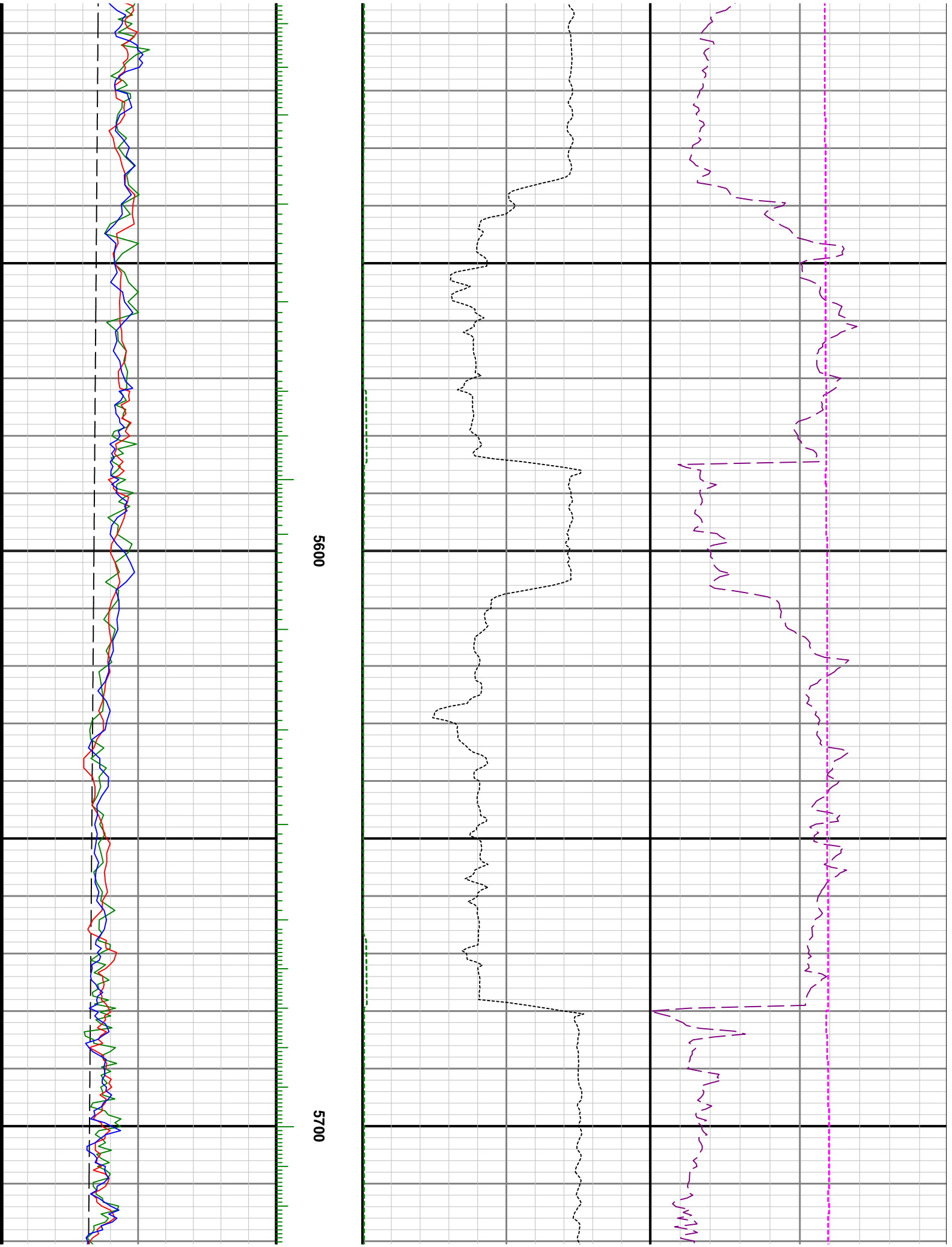


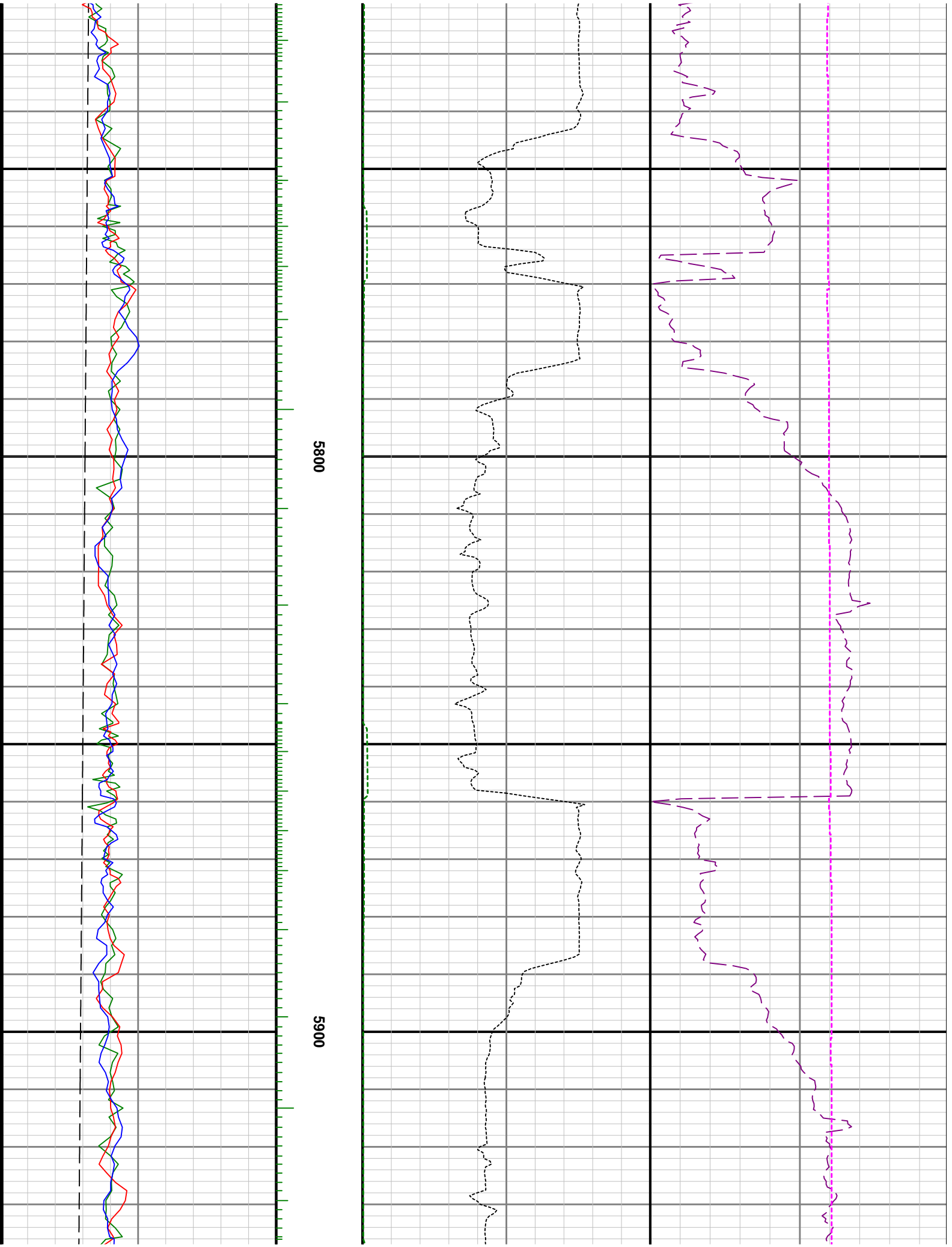


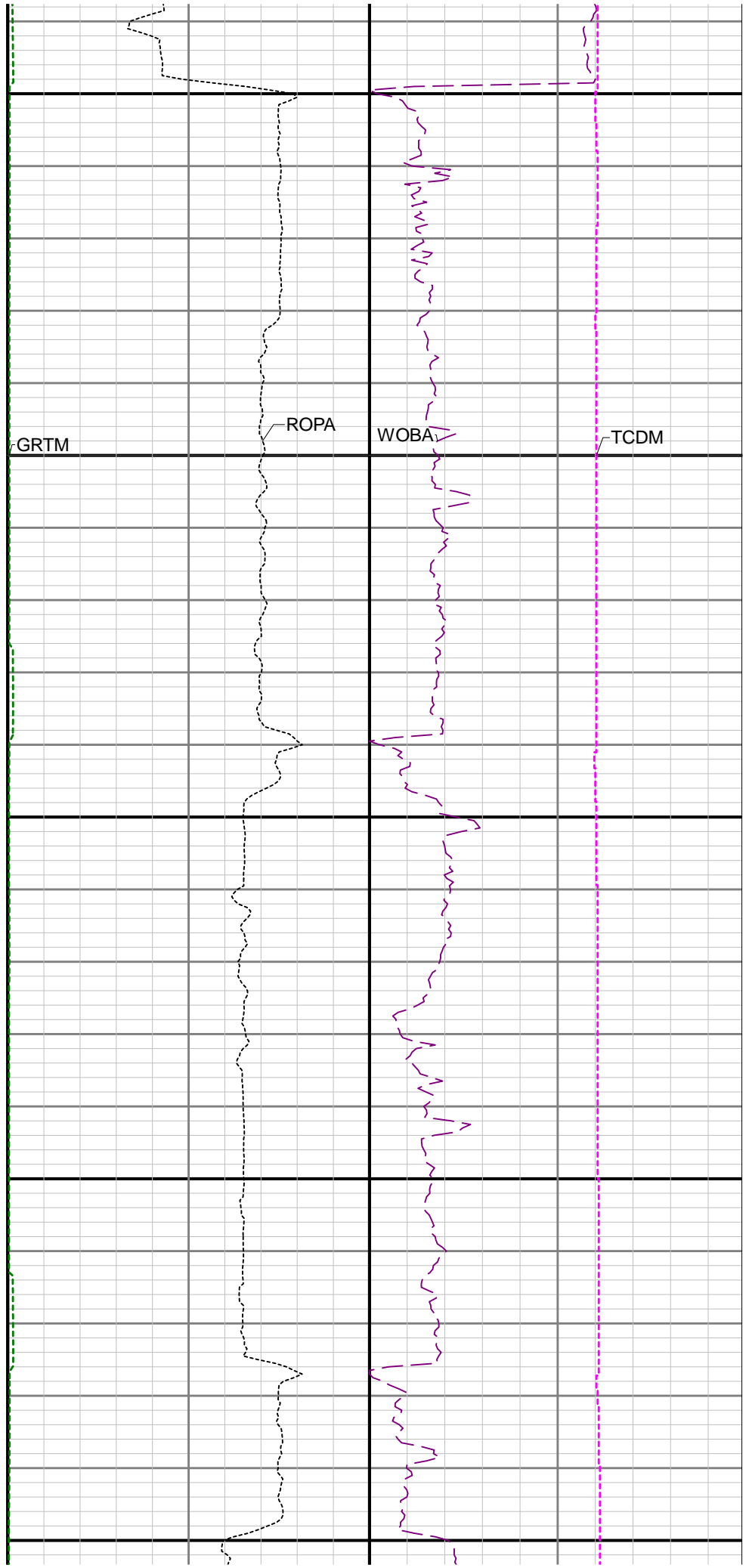
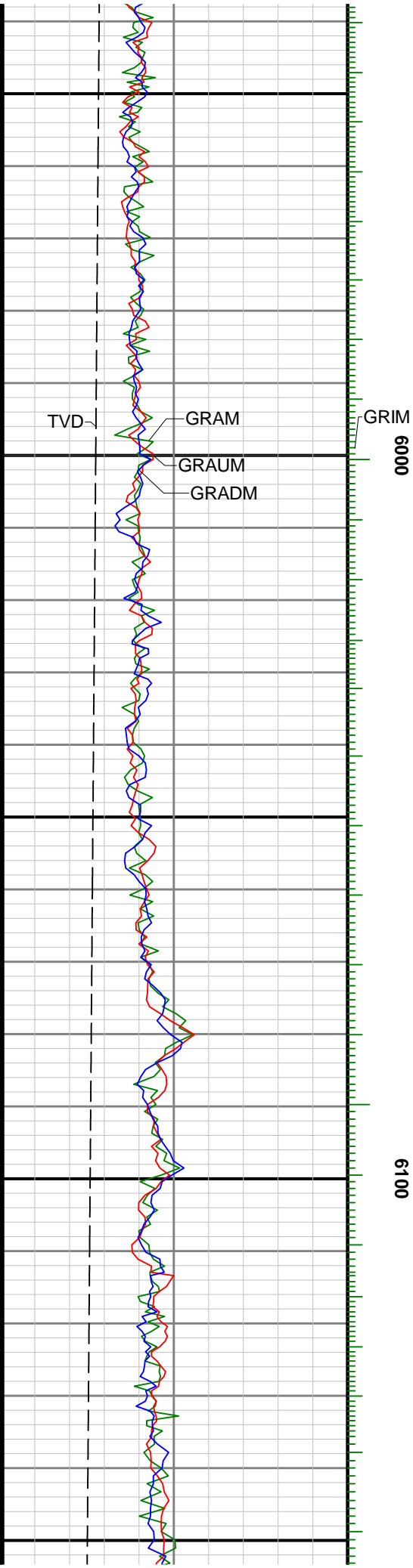


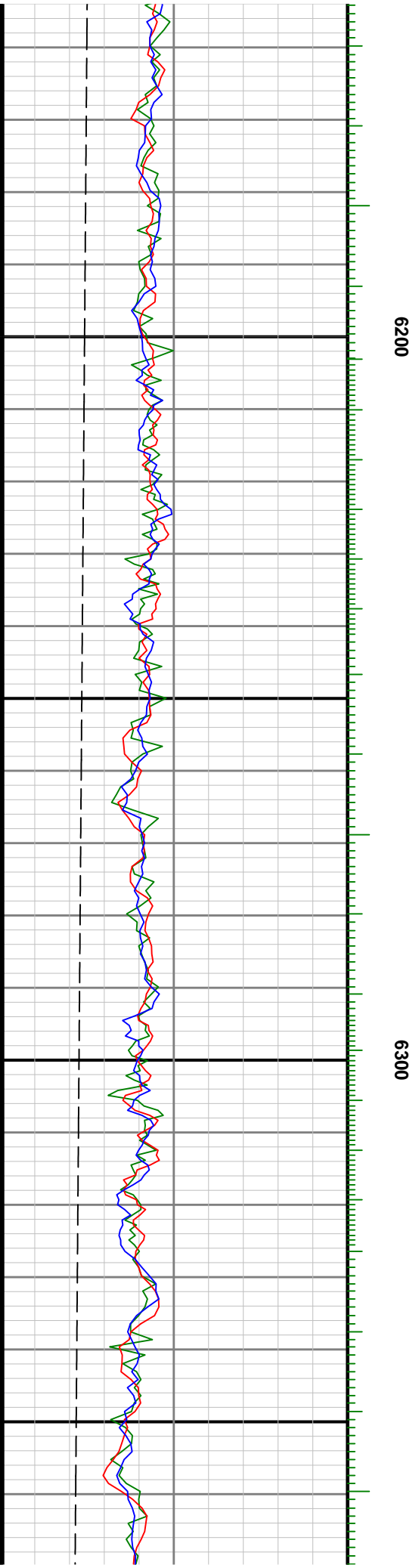
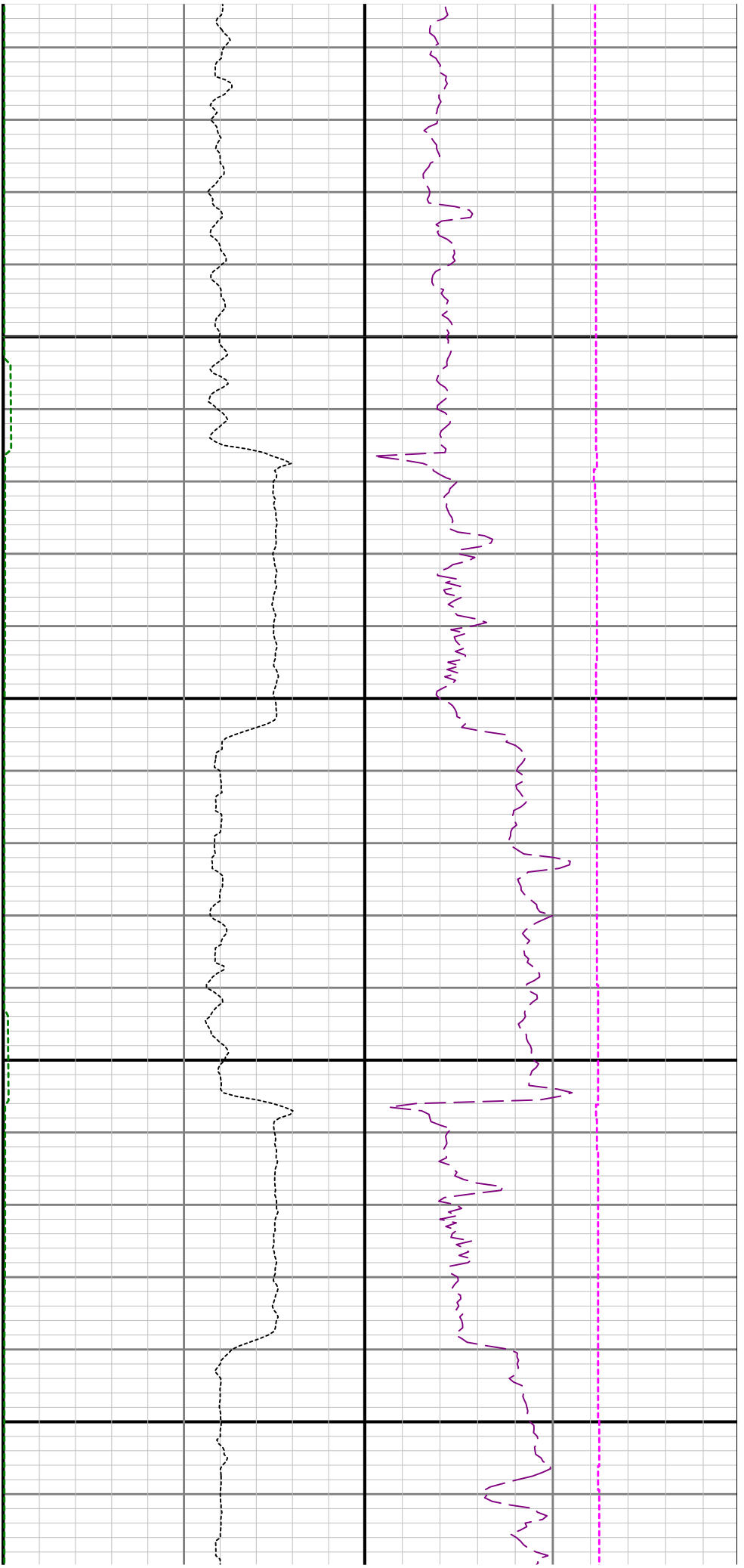


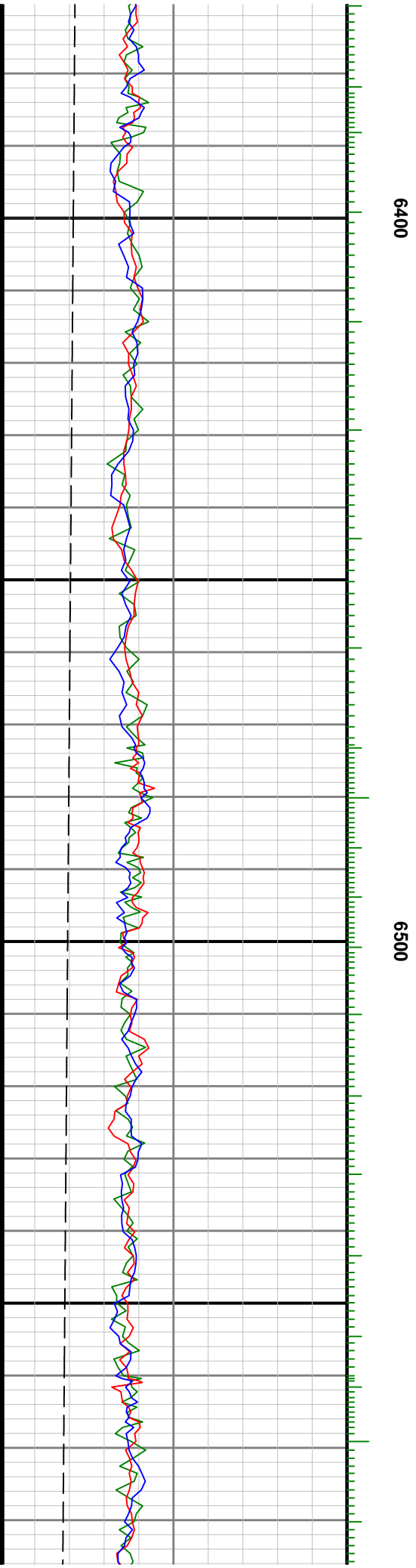
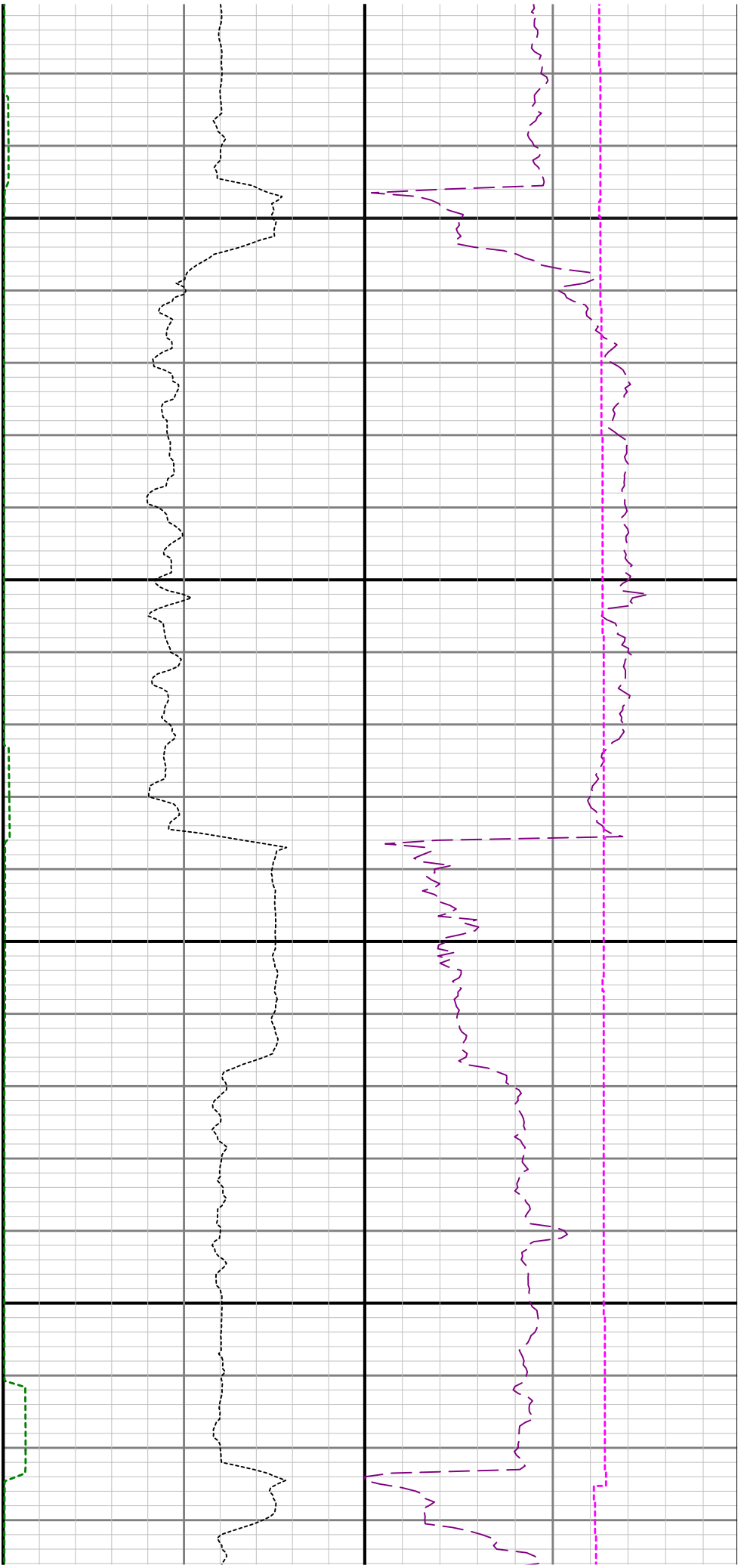


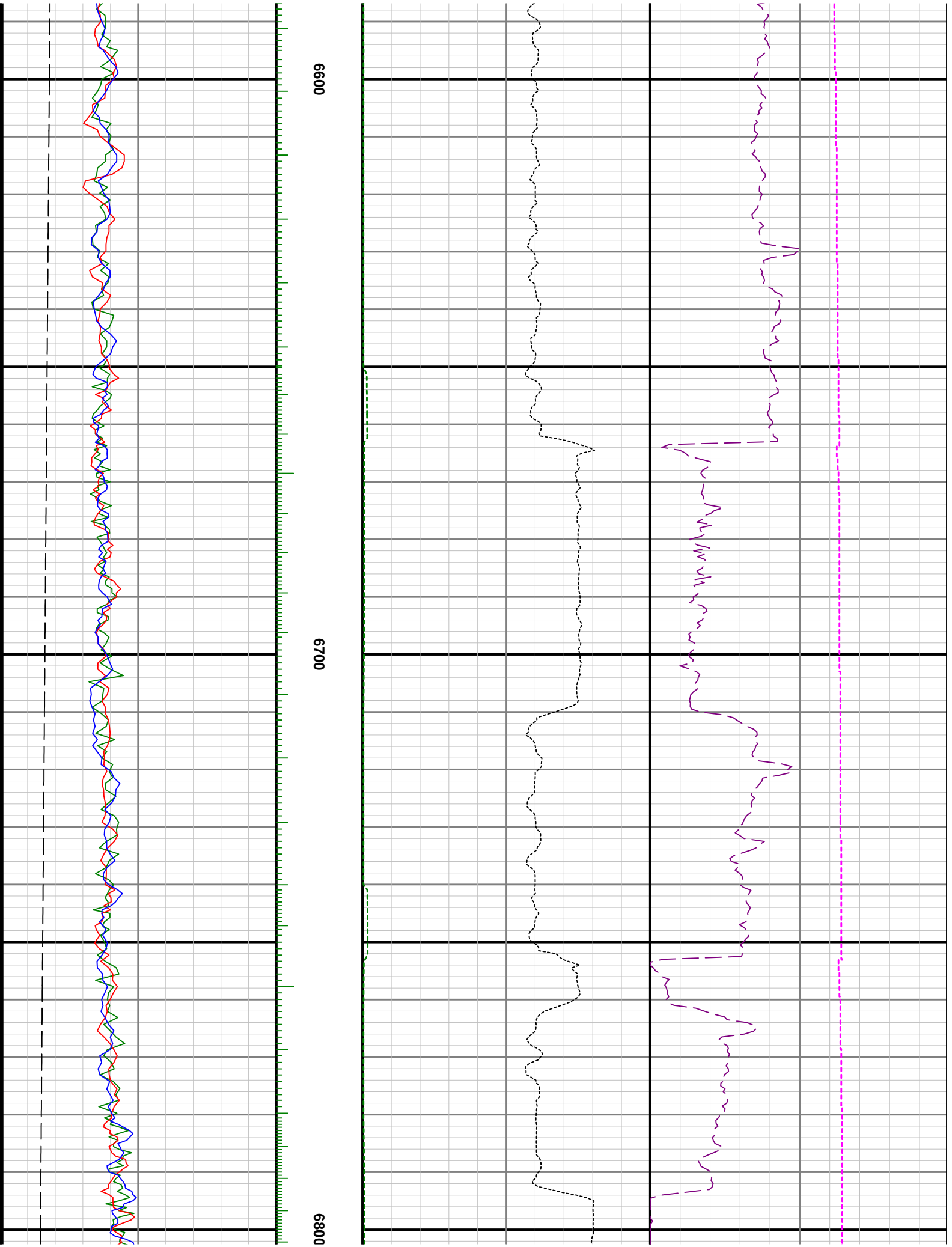


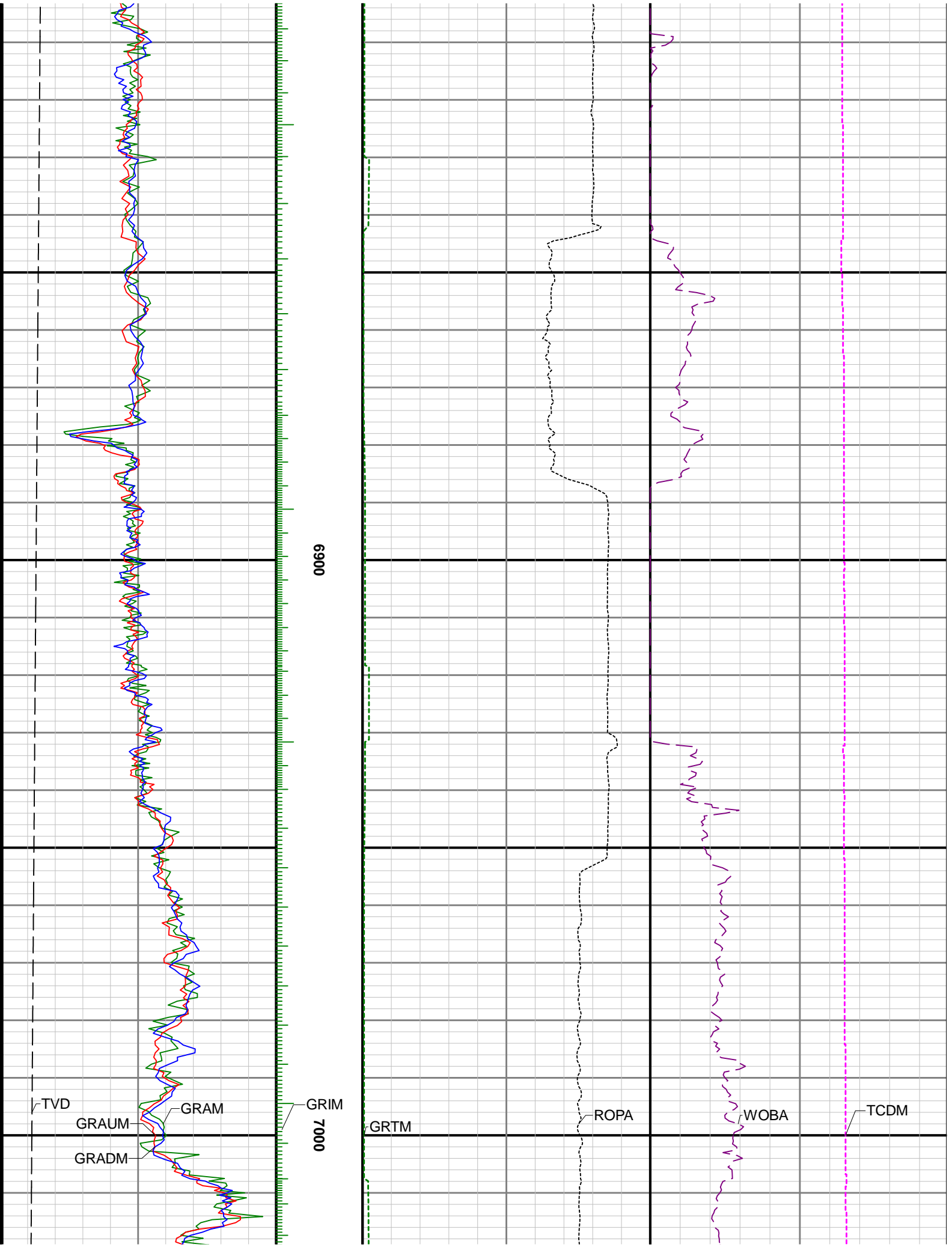


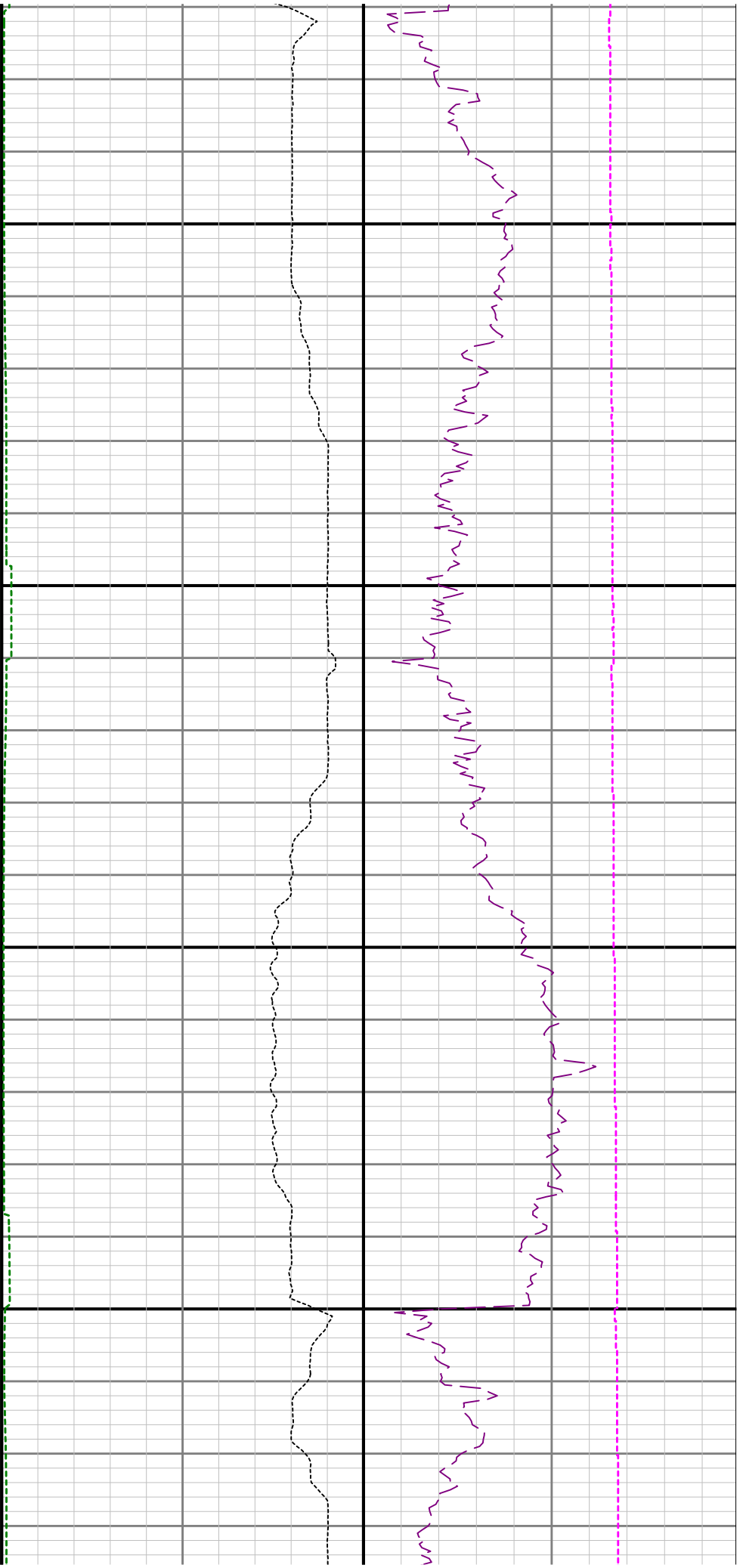






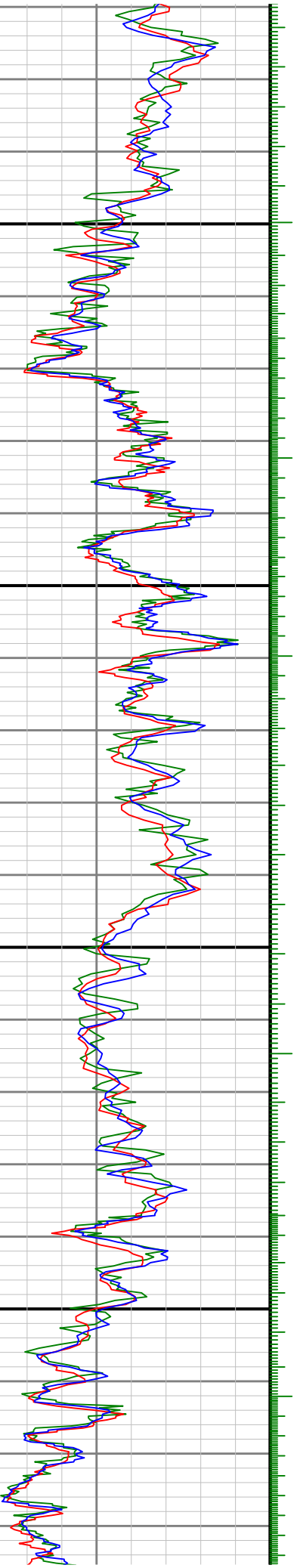


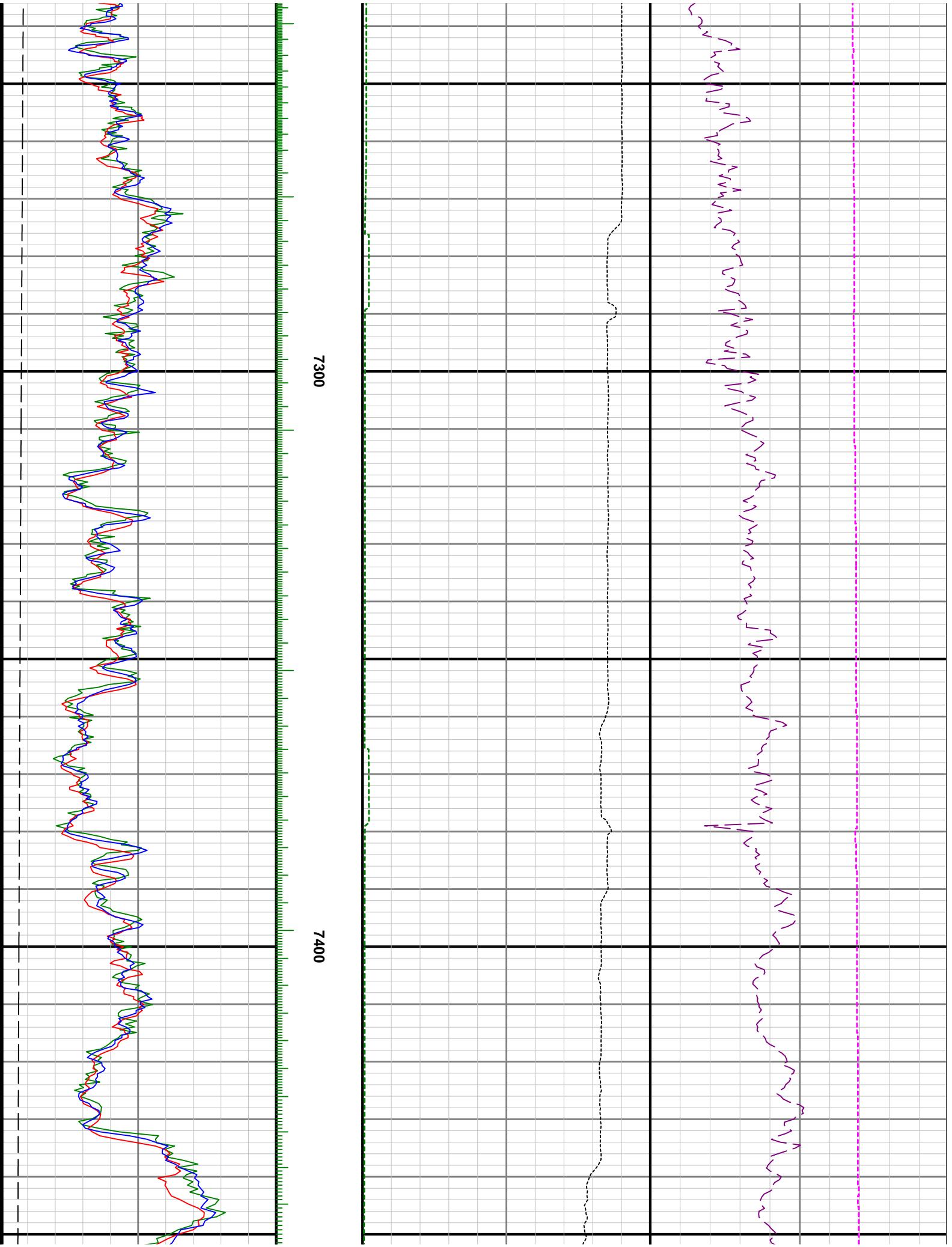


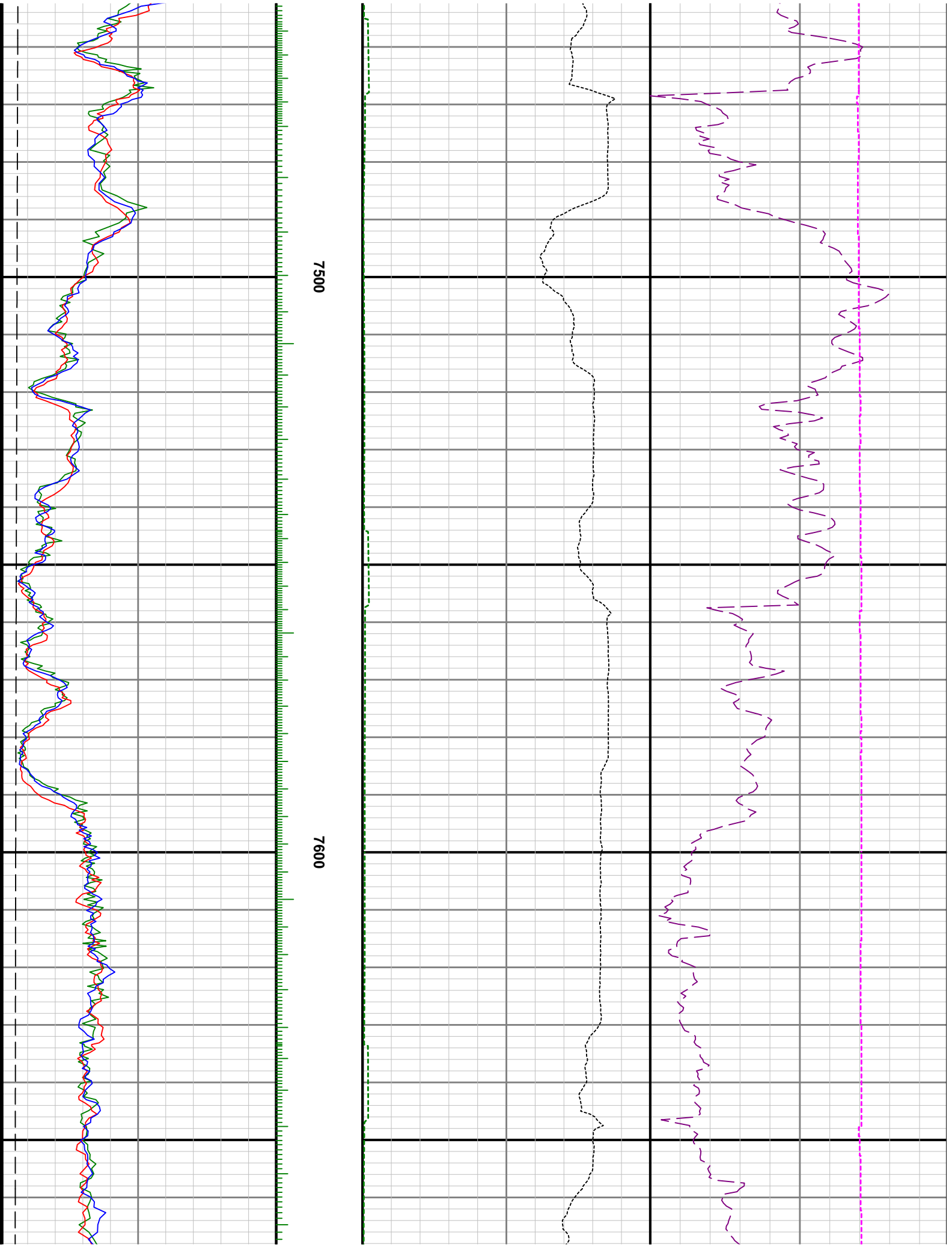


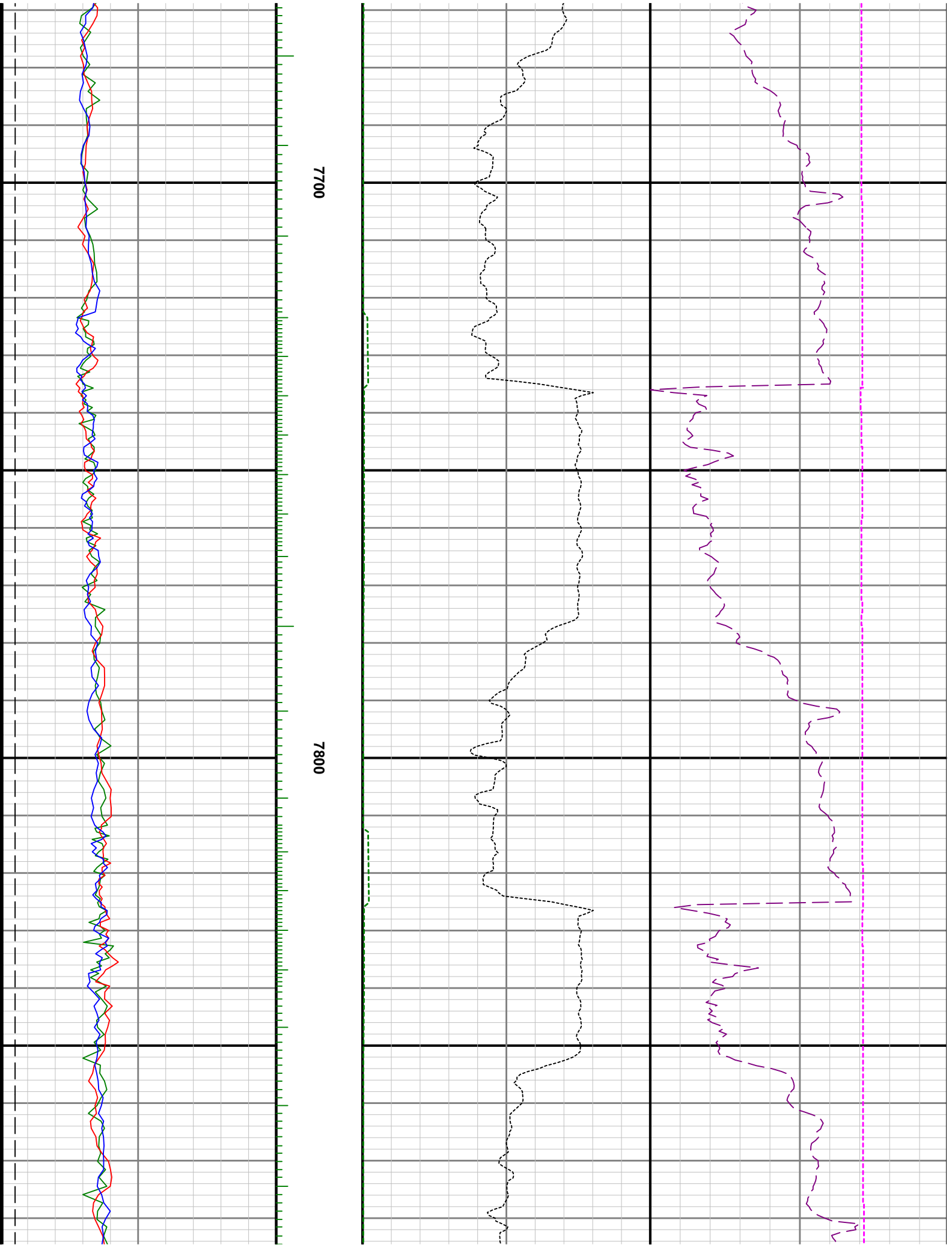
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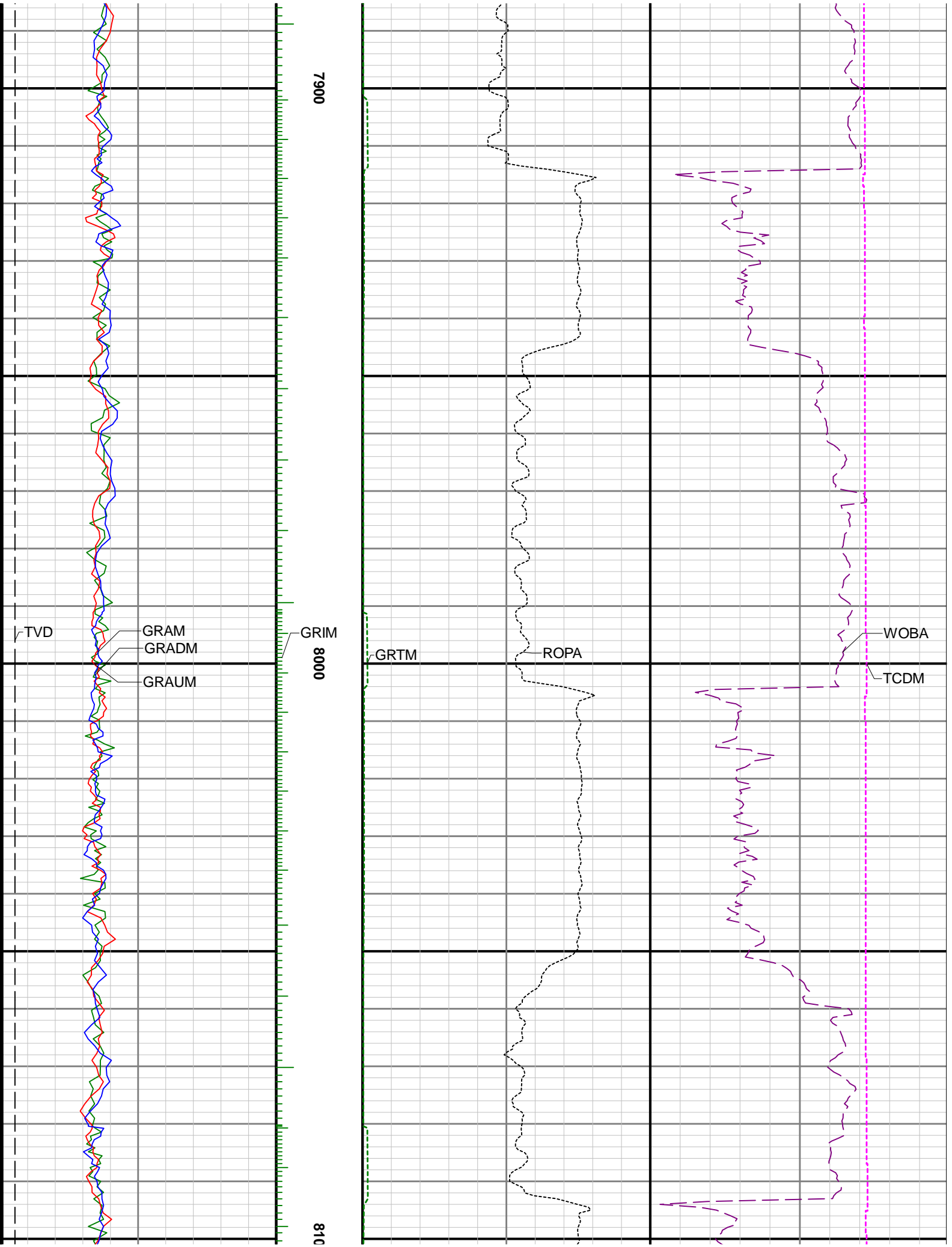
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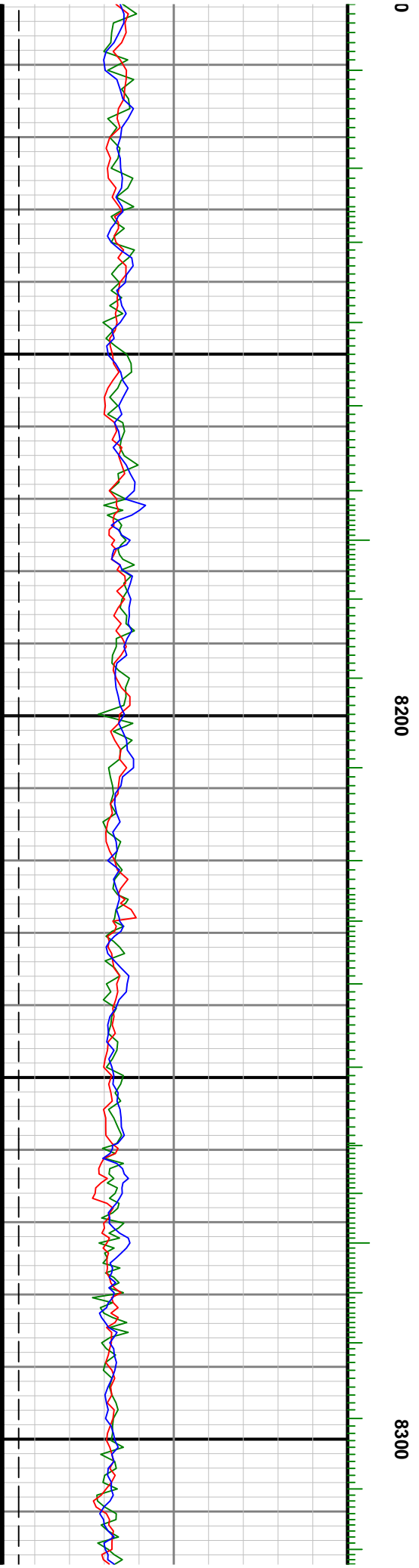
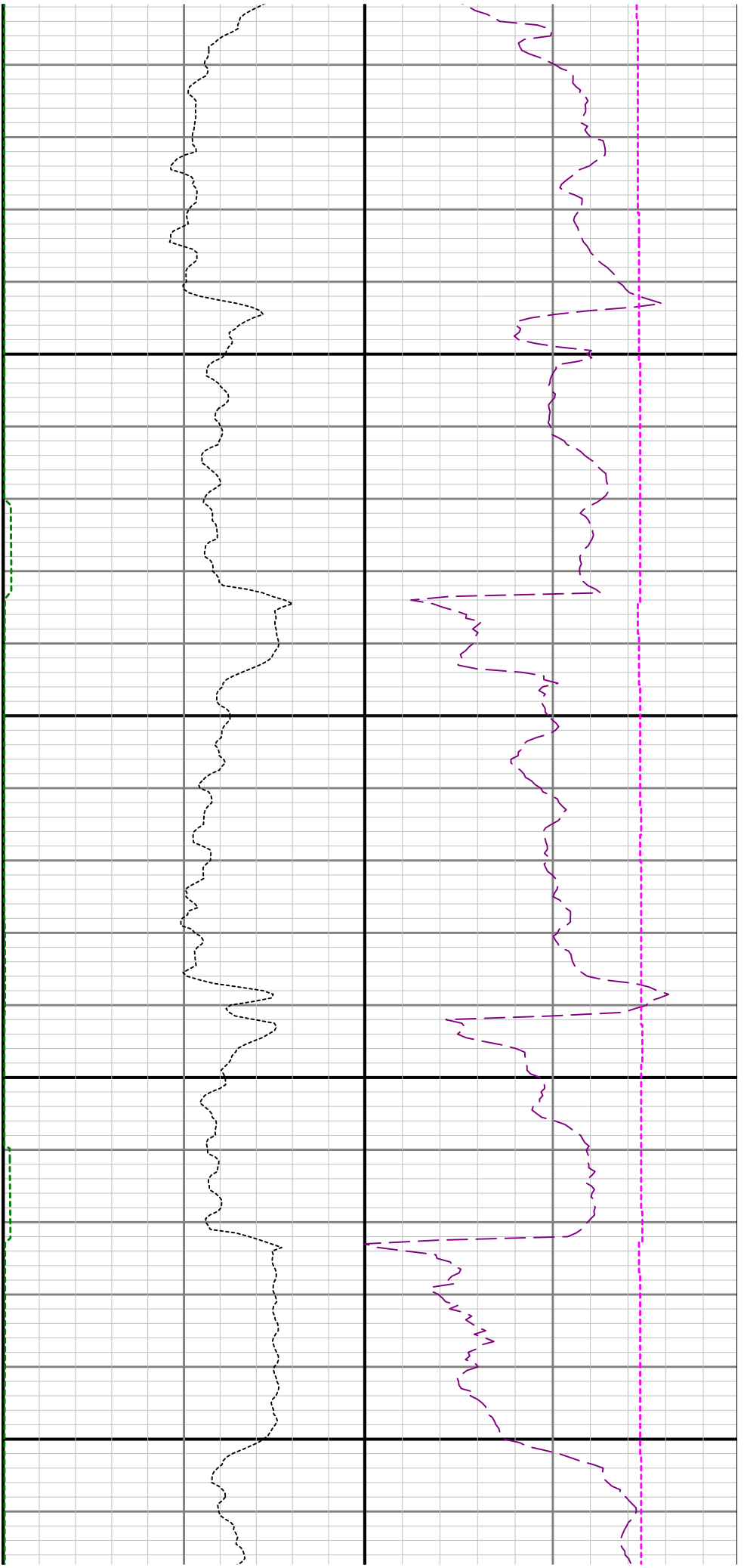


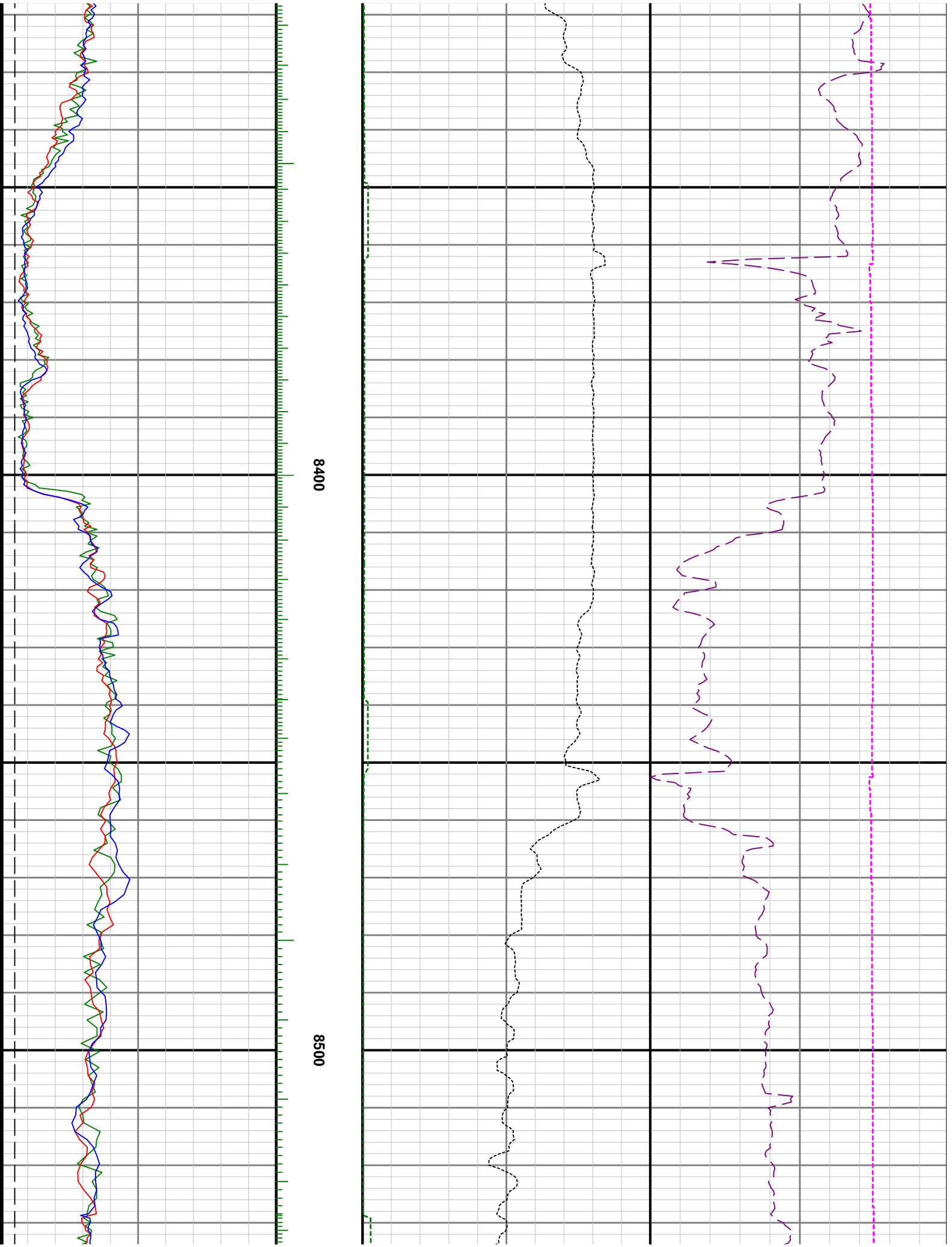


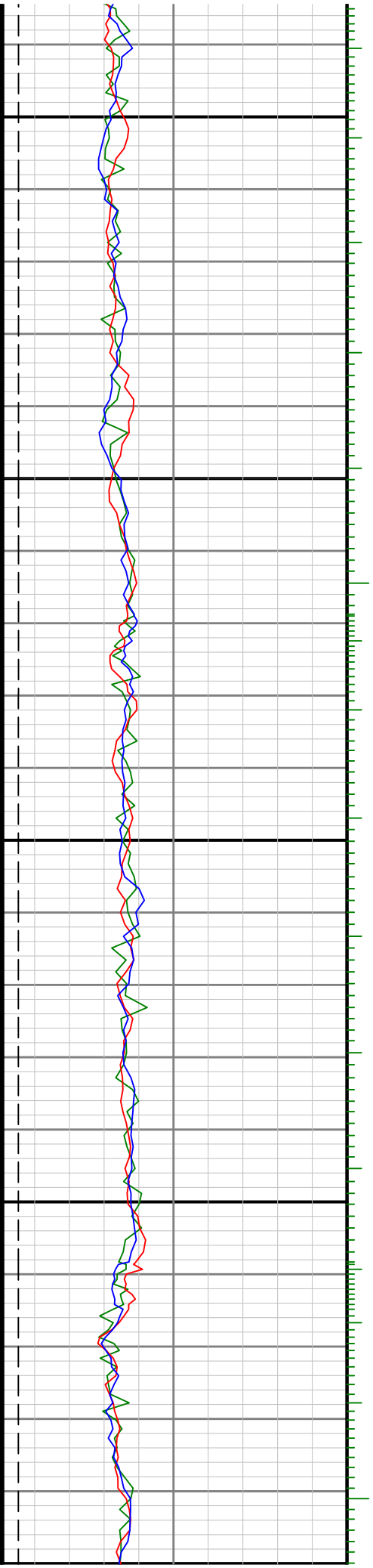






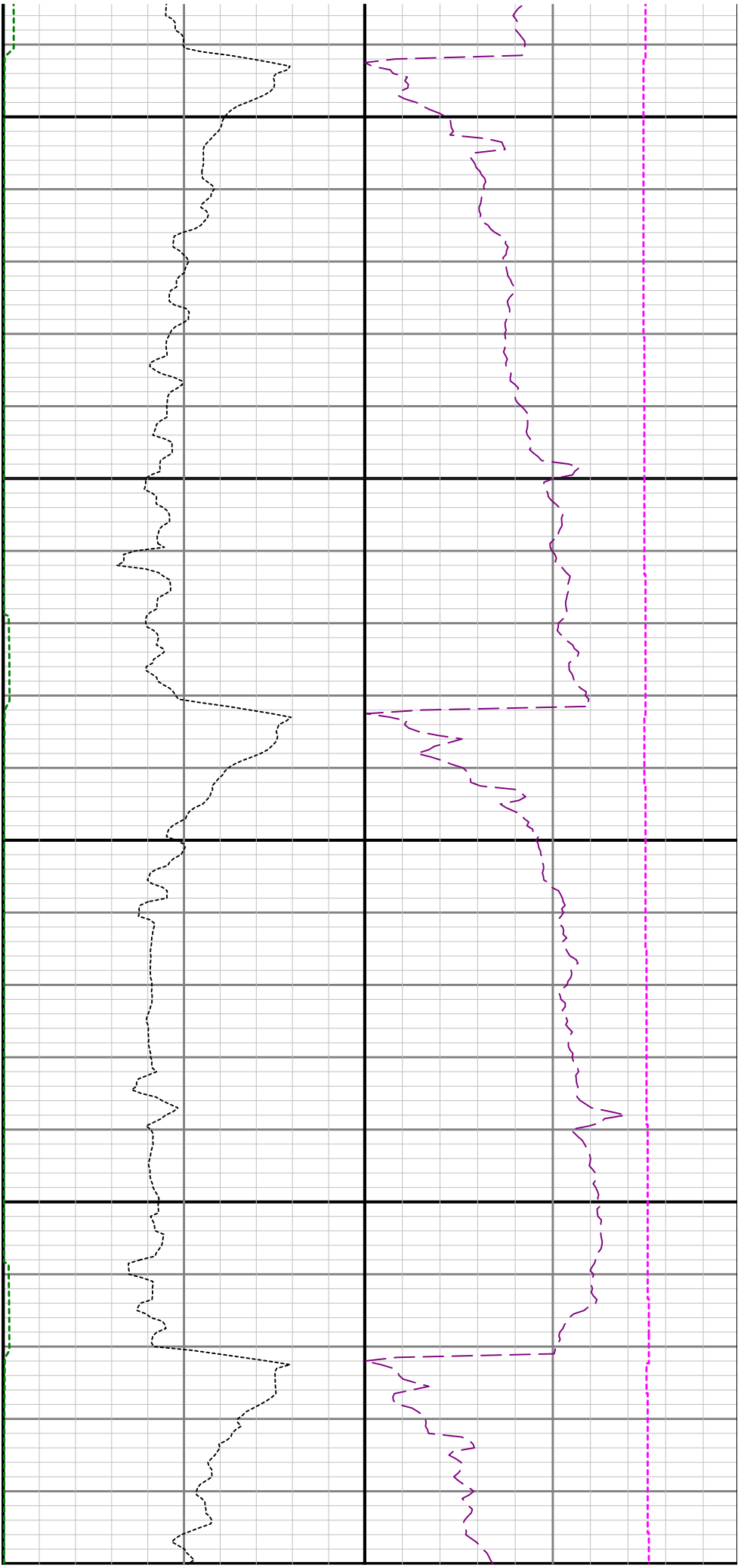


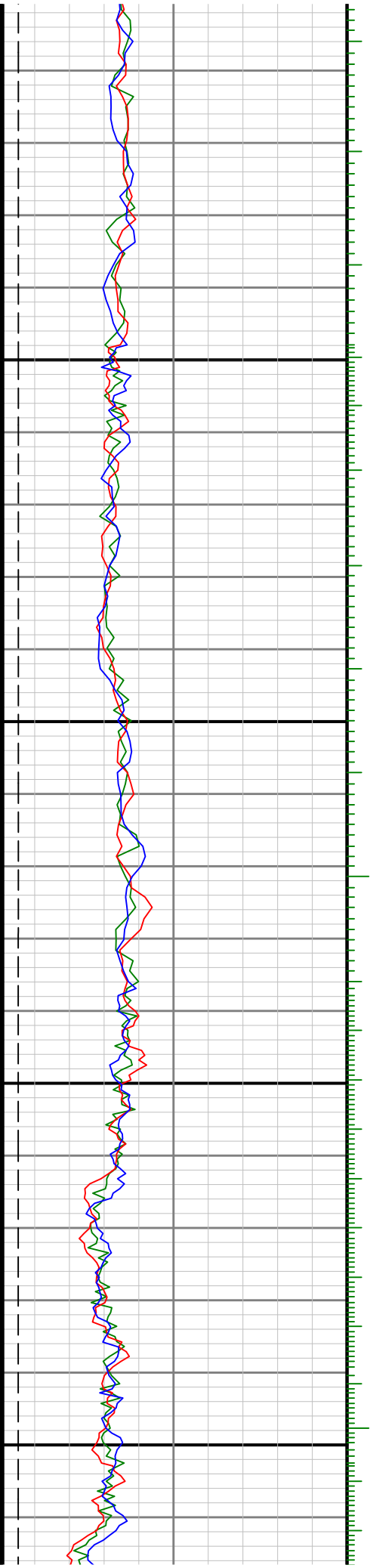




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