

BAKER HUGHES				LWD MEMORY LOG															
Azimuthal Gamma Ray																			
Scale:				Company: SRC Energy															
1:240 MD				Well: Hood 11C-22-M															
Depth Reference:				Field: Weld County															
Driller's Depth				Country: Weld		Country: United States													
Status:				Surface Location:				Other Services:											
Final Print				Latitude:				Directional											
API No: 05-123-44381-00				Longitude:															
Job ID: 8457220				UTM: N/A															
				SEC: 20				TWN: 6N				RGE: 66W							
Permanent Datum (P.D.): Mean Sea Level				Elevation:				4734.00 ft				KB: N/A							
Log Measured From: Rig Floor				Above P.D.				4759.00 ft				DF: 4759.00 ft		GL: 4734.00 ft					
Dates										Interval Logged									
Date From: 2017-05-07										Top: (ft) 1771.00									
Date To: 2017-05-11										Bottom: (ft) 15473.00									
Spud Date: 2017-03-17										Total Magnetic Field Strength: (nT) 52716									
										Mag to Reference North Correction: (deg) 7.50 E									
Borehole Record										Casing Record									
Hole Size (in)										From (ft)									
13.500										25.00									
8.500										1771.00									
										15473.00									

Carlos Lopez	2017-05-07	2017-05-11						
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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+ (%)
2017-05-07 14:32	2	1771.00	Oil Based Mud	9.6	21	N/A	8.9	80/20	Suction	44000	0.00
2017-05-08 06:13	2	4835.94	Oil Based Mud	9.5	21	N/A	0.0	79/21	Suction	39310	0.00
2017-05-09 03:31	3	7662.00	Oil Based Mud	9.5	21	N/A	0.0	79/21	Suction	39310	0.00
2017-05-09 07:53	3	7766.44	Oil Based Mud	9.6	20	N/A	0.0	79/21	Suction	36433	0.00
2017-05-10 07:36	3	11030.61	Oil Based Mud	9.6	20	N/A	0.0	81/19	Suction	36433	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)
1	Sensor Sub	ZAPS230921	VSS	11.85	59.43	8.000	3.250
1	Sensor Sub	ZAPS230921	Directional (mag)	11.85	59.43	8.000	3.250
1	Sensor Sub	ZAPS230921	Pressure	32.42	80.00	8.000	3.250
2	ATC_SU	14178970	Near Bit Inclination	5.93	6.73	7.000	4.330
2	ATC_SU	14178970	Near Bit VSS	5.93	6.73	7.000	4.330
2	ATC_MWD	13067101	Gamma (single)	2.20	12.35	7.000	3.250
2	ATC_MWD	13067101	Directional (mag)	12.27	22.42	7.000	3.250
3	ATC_SU	12296375	Near Bit Inclination	5.93	6.73	7.000	4.330
3	ATC_SU	12296375	Near Bit VSS	5.93	6.73	7.000	4.330
3	ATC_MWD	12600028	Gamma (single)	2.74	12.90	7.000	3.250
3	ATC_MWD	12600028	Directional (mag)	12.27	22.43	7.000	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
GAM	APS	APS EM Module
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 no 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 service (Directional-Only) behind a 13 1/2 inch bit and steerable assembly from 25 to 1771 feet MD (25 to 1763 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 1771 to 7663 feet MD (1763 to 7150 feet TVD). Pull out of the hole due to a downhole tool failure.
4	Baker Hughes LWD Run 3 utilized 6 3/4 inch Navigamma services (Gamma Ray and Directional) behind an 8 1/2 inch bit and rotary steerable assembly from 7663 to 15473 feet MD (7150 to 7181 feet TVD).
5	Gamma Ray Apparent curves (GRAM - GRADM - GRAUM) are presented 0 to 300 API per customer request.

Remarks

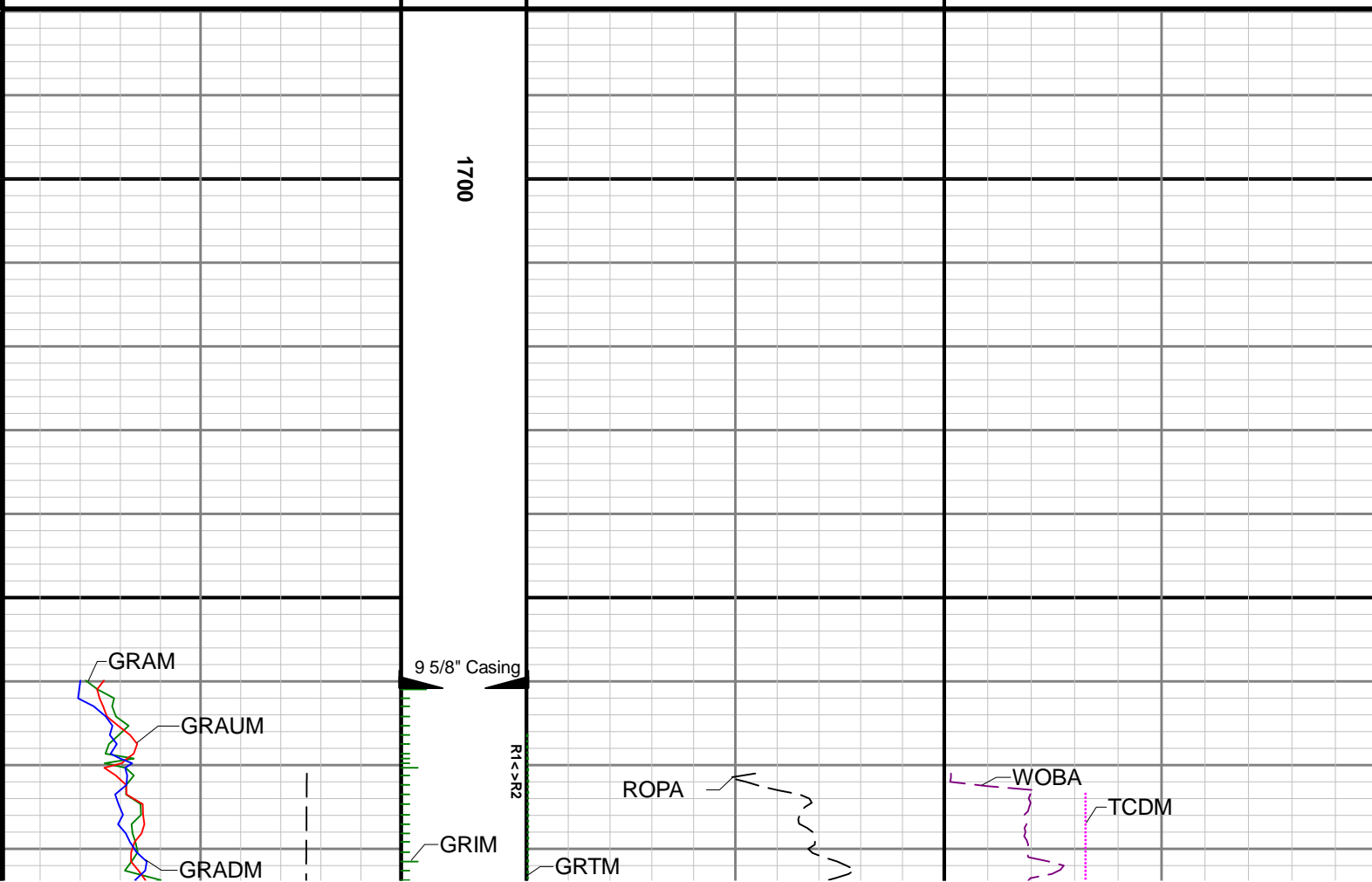
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	7644.00	8.500	3	The interval from 7637 to 7663 feet MD (7150 feet TVD) was logged after 11 hours due to a trip out of the hole due to a downhole failure.
2	15467.00	8.500	3	The interval from 15461 to 15473 feet MD (7181 feet TVD) was not logged due to sensor to bit at well TD.

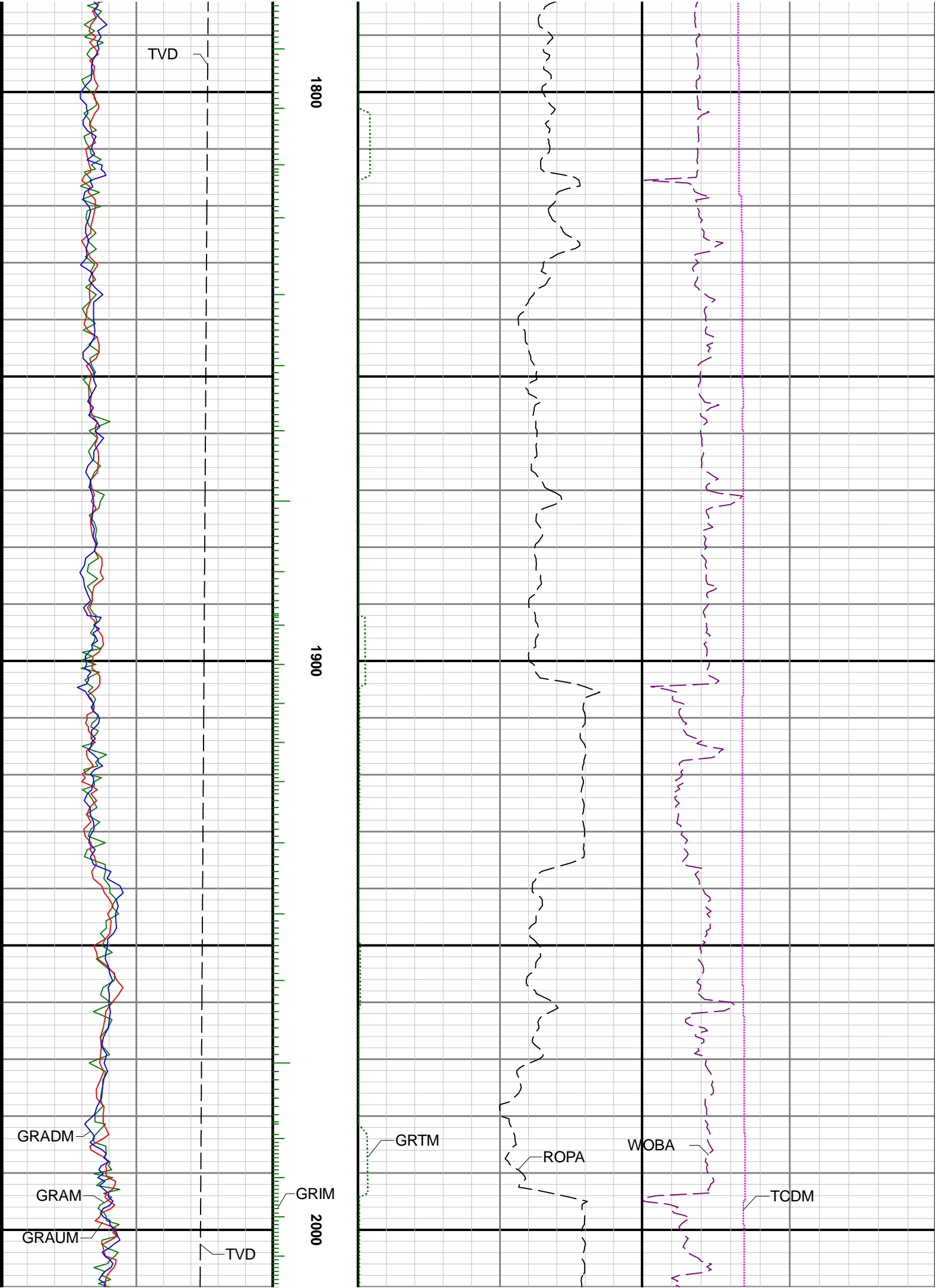
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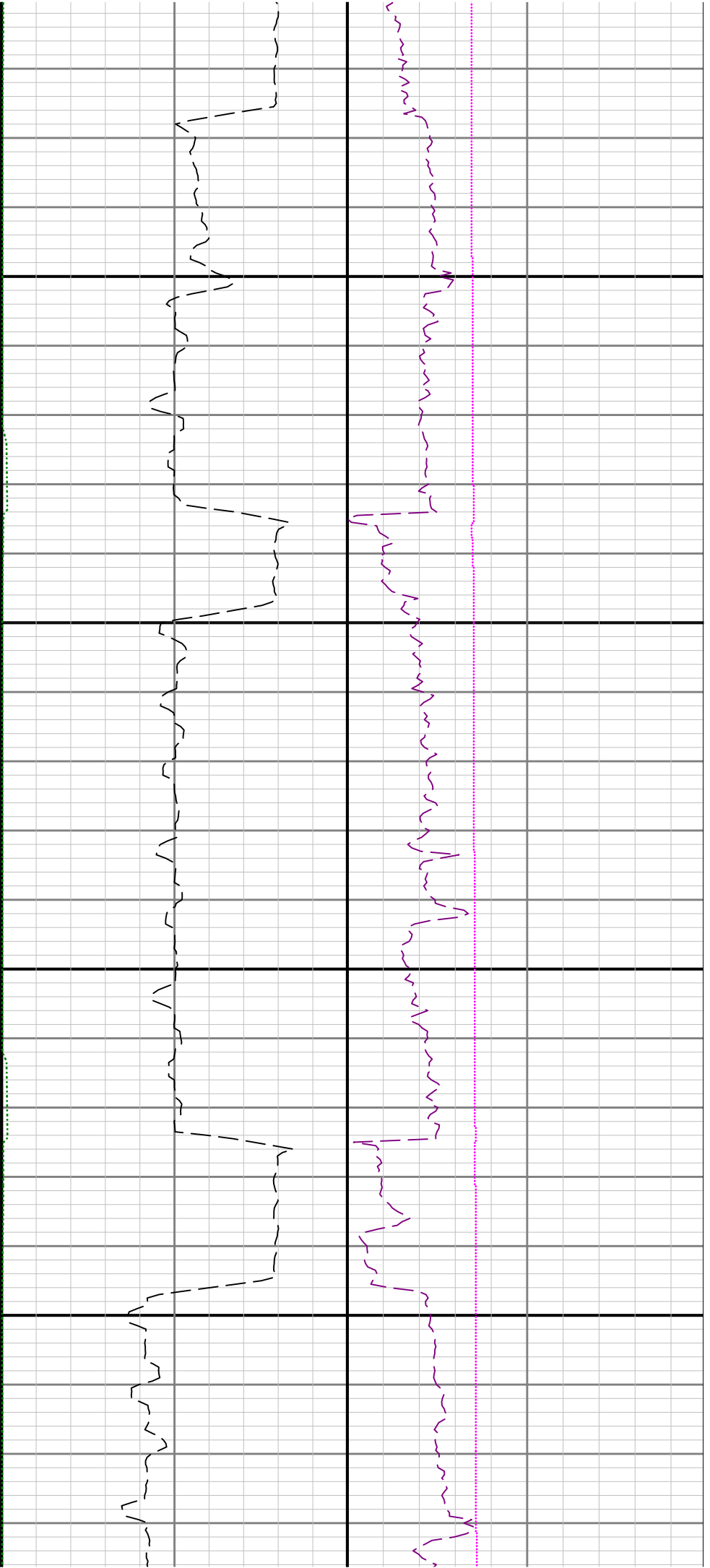
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent 0.5 ft Average	API
GRIM	Gamma Ray Data Point Indicator	unitless
GRTM	Gamma Time Since Drilled	min
GRADM	Azimuthal Gamma Ray -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

	Company	SRC Energy			
	Well	Hood 11C-22-M			
	Interval	Date From:	2017-05-07 12:00:00	Top:	1771.00
	Created	Date To:	2017-05-11 03:34:07	Bottom:	15473.00
			2017-05-11 15:25		

Gamma Ray - Apparent 0.5 ft Average GRAM 0 300	MD 1:240 feet	Gamma Time Since Drilled GRTM 0 600 min	Weight On Bit, Average 1 ft Average WOBA 0 50 klb
API Azimuthal Gamma Ray - Apparent - Up Quadrant 0.5 ft Average GRAUM 0 300		Depth Averaged ROP 3 ft Average ROPA 1200 0 ft/h	Downhole Temperature TCDM 0 300 degF
API Azimuthal Gamma Ray - Apparent - Down Quadrant 0.5 ft Average GRADM 0 300			
API True Vertical Depth TVD 7500 0 ft			

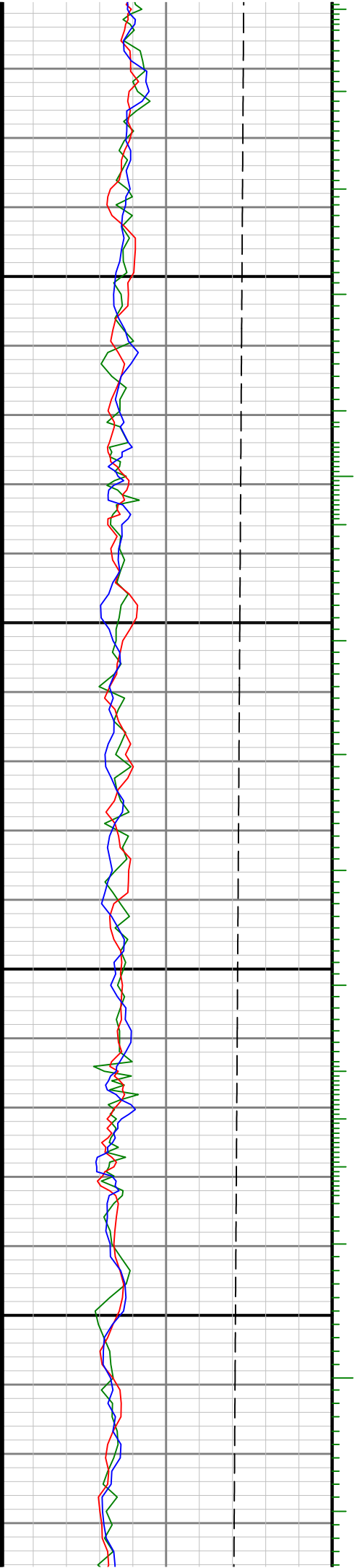


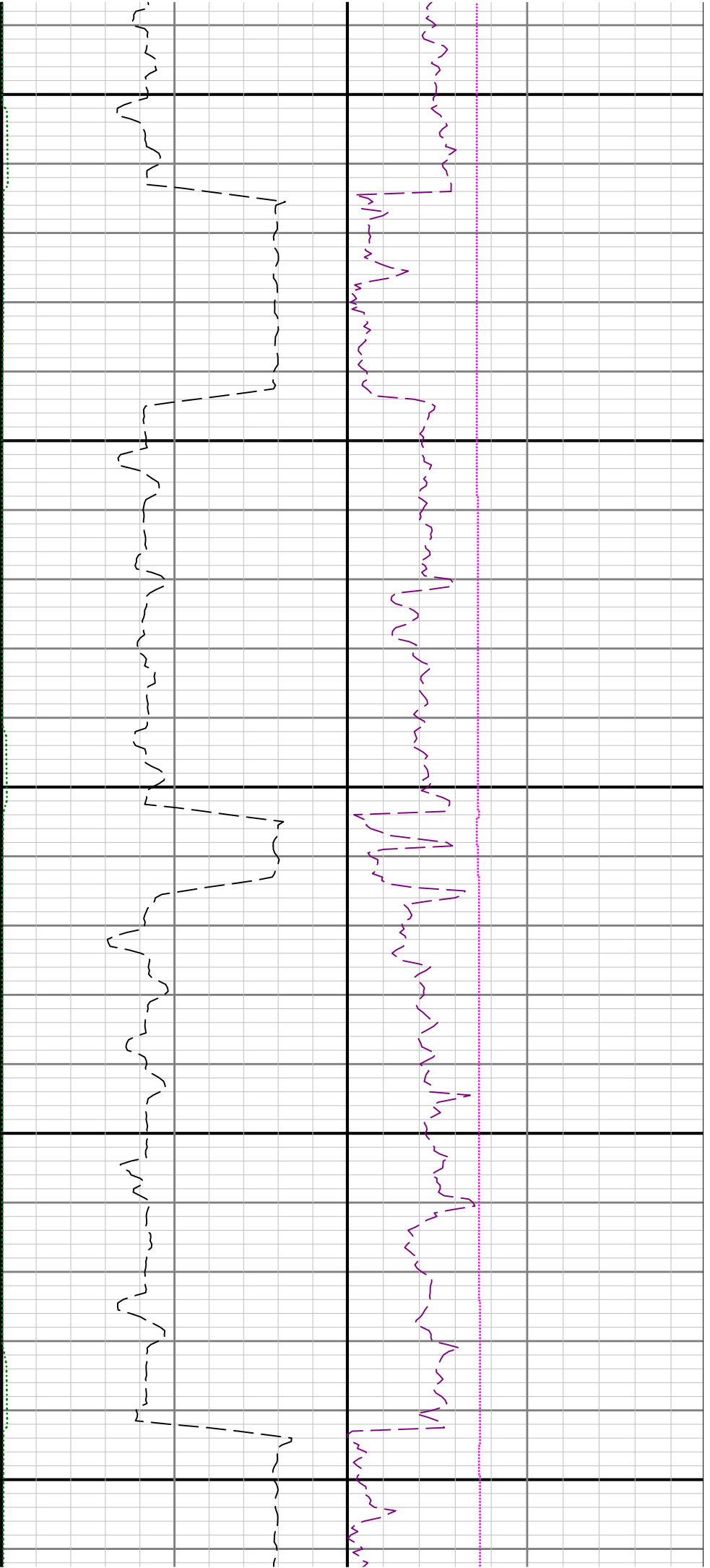




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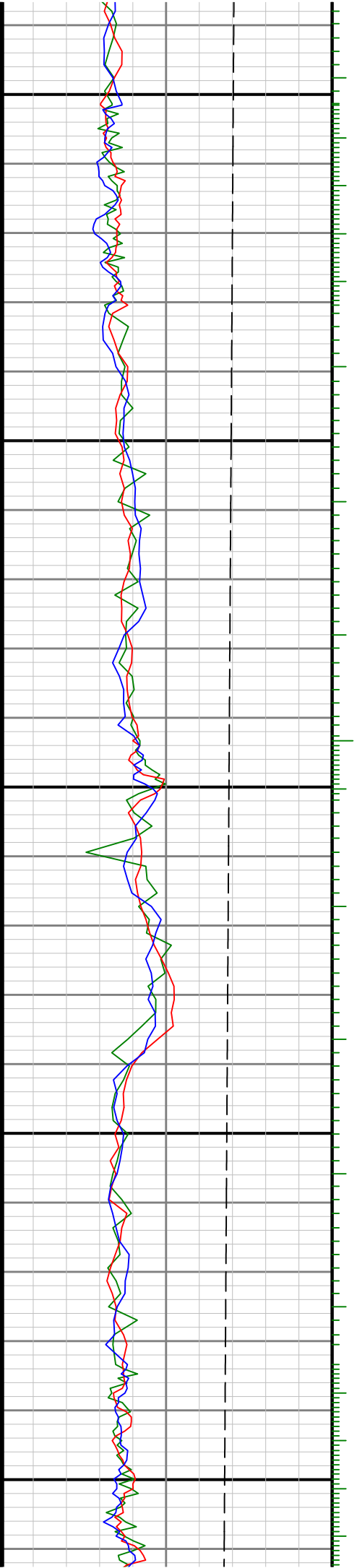
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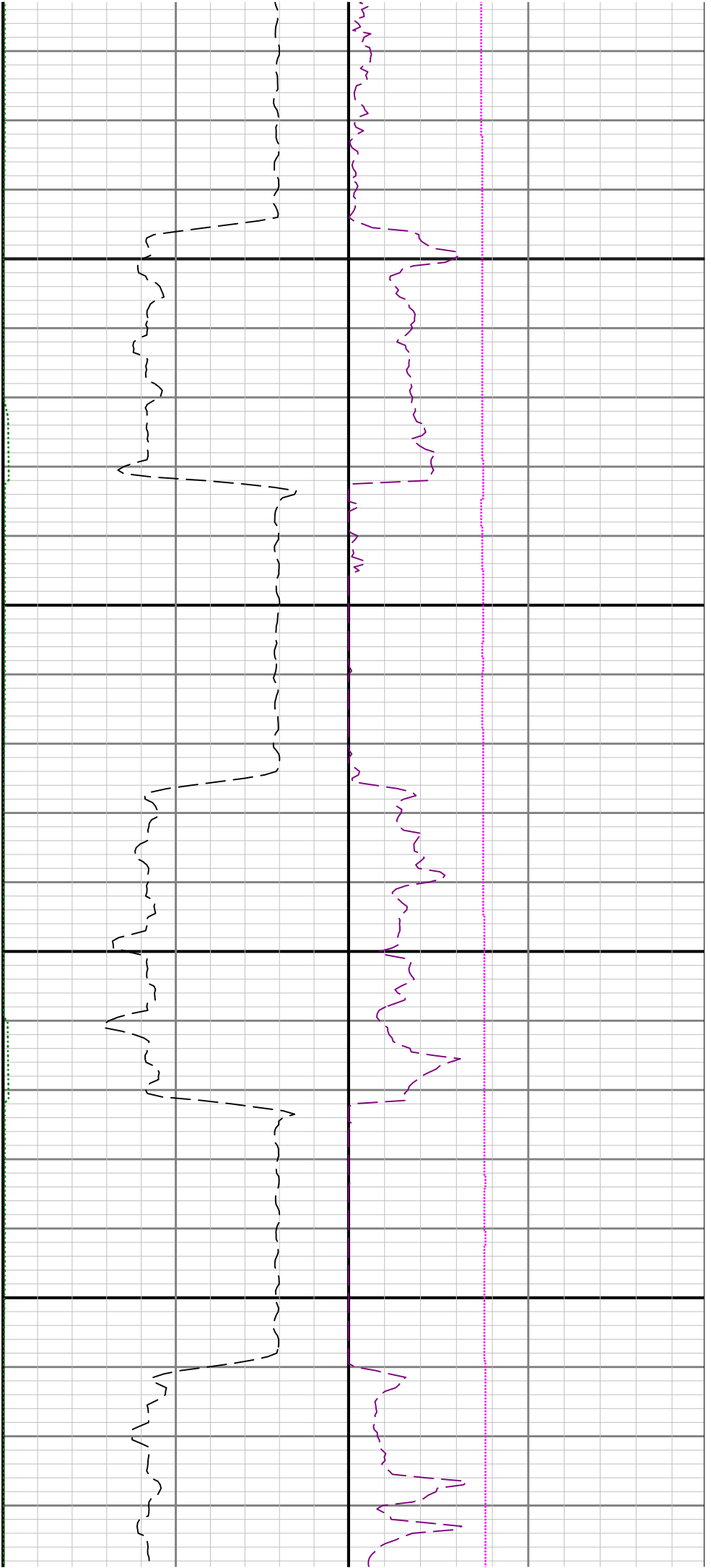




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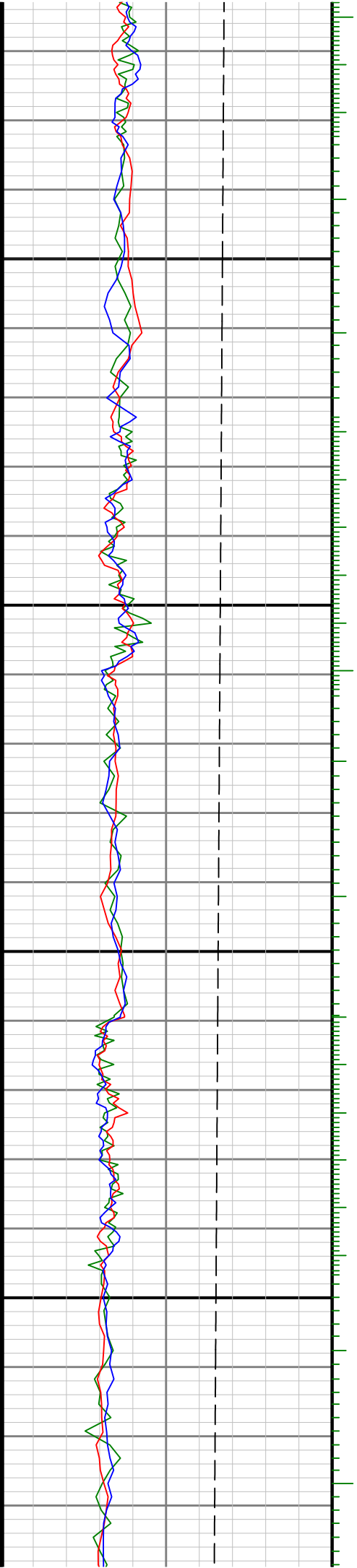
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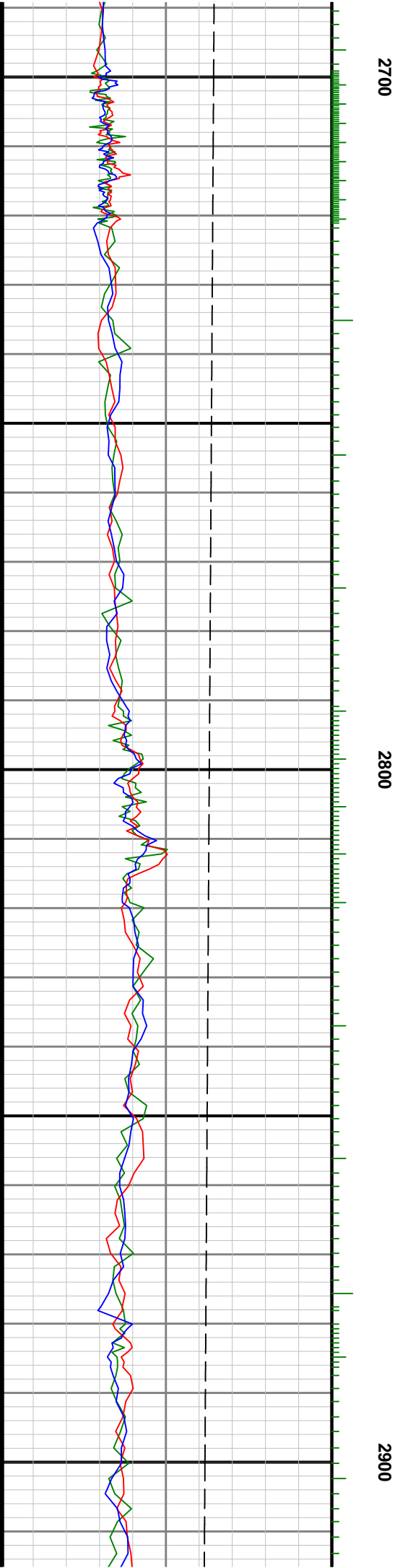
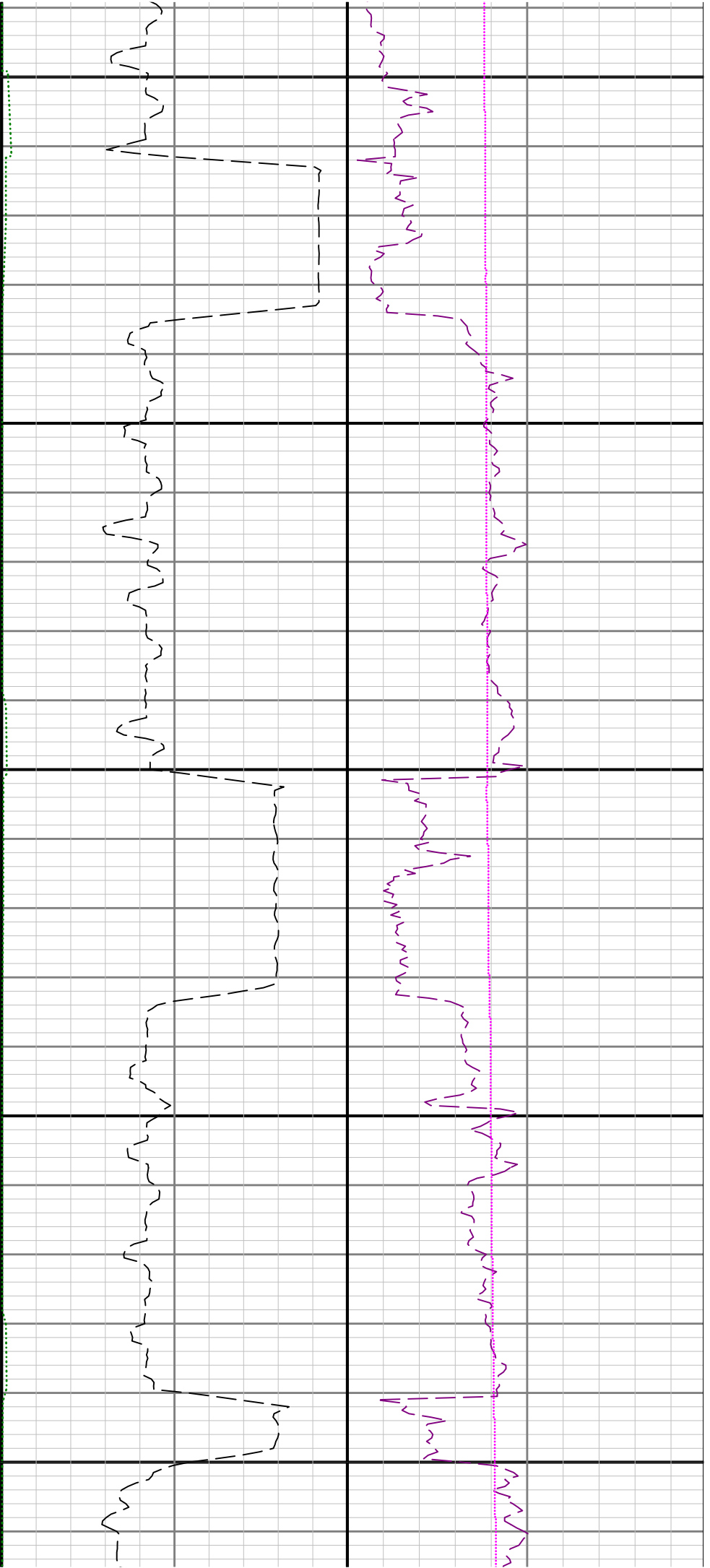


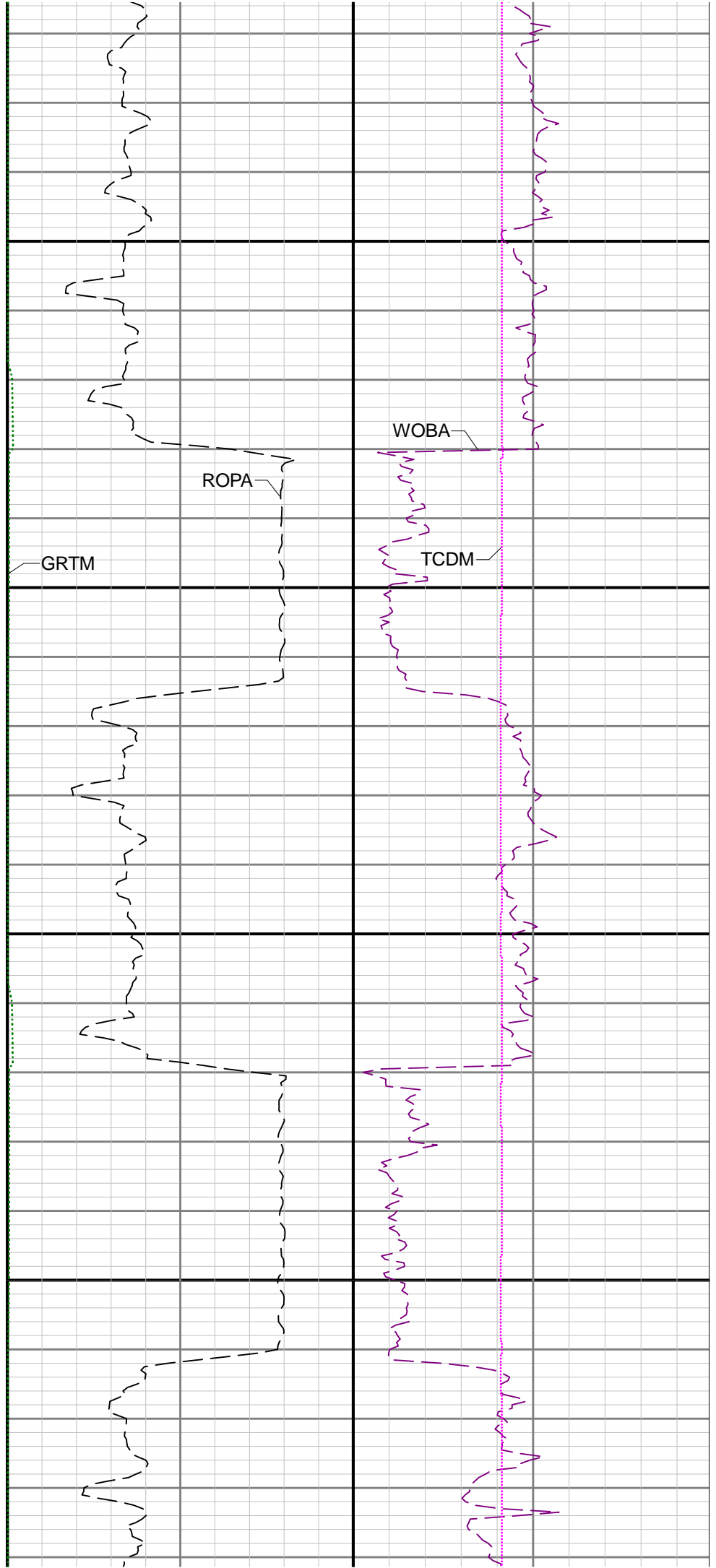
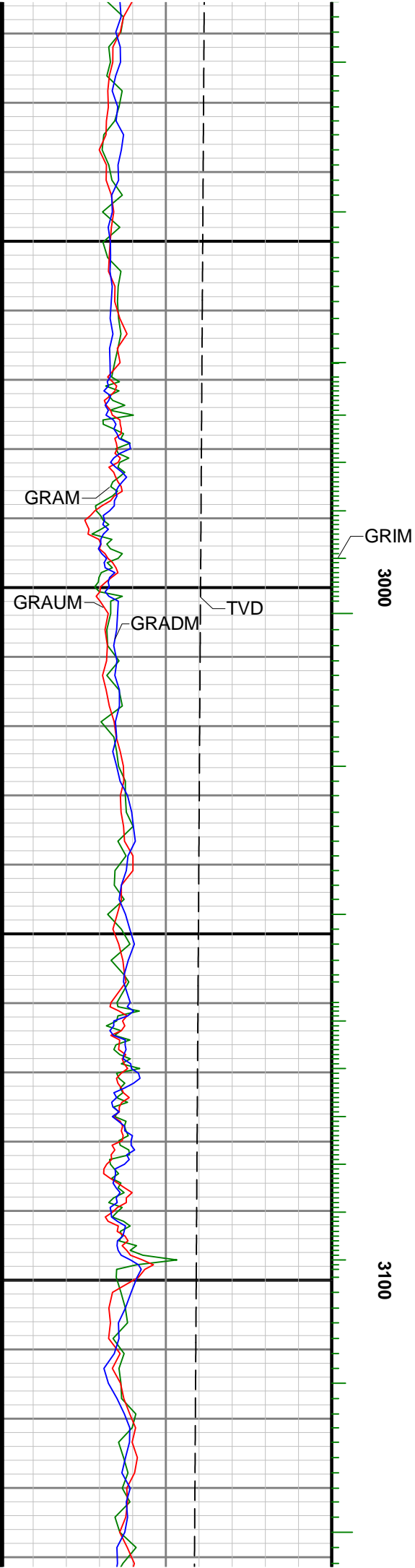


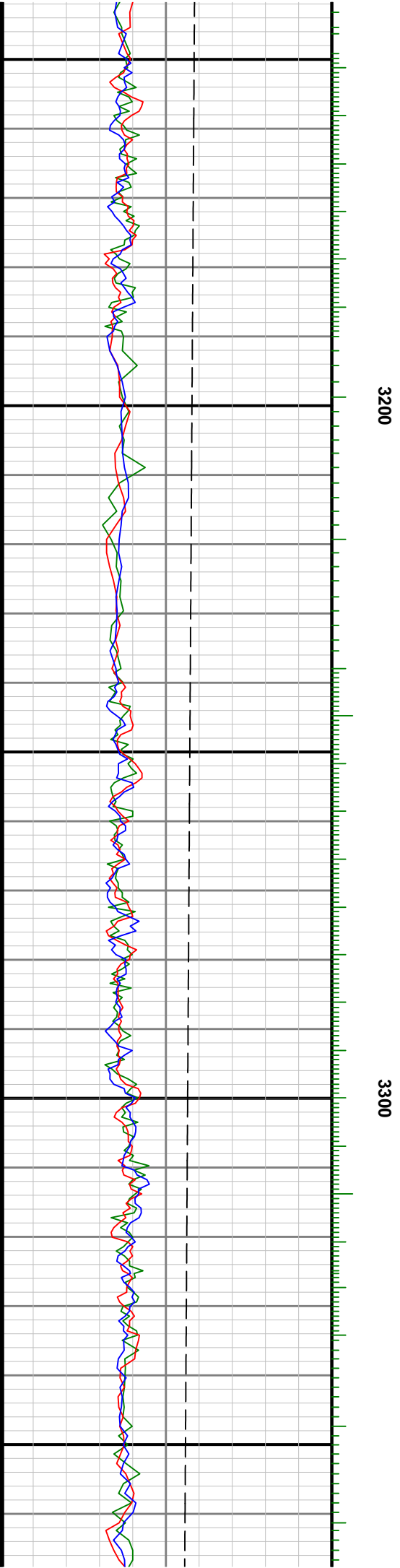
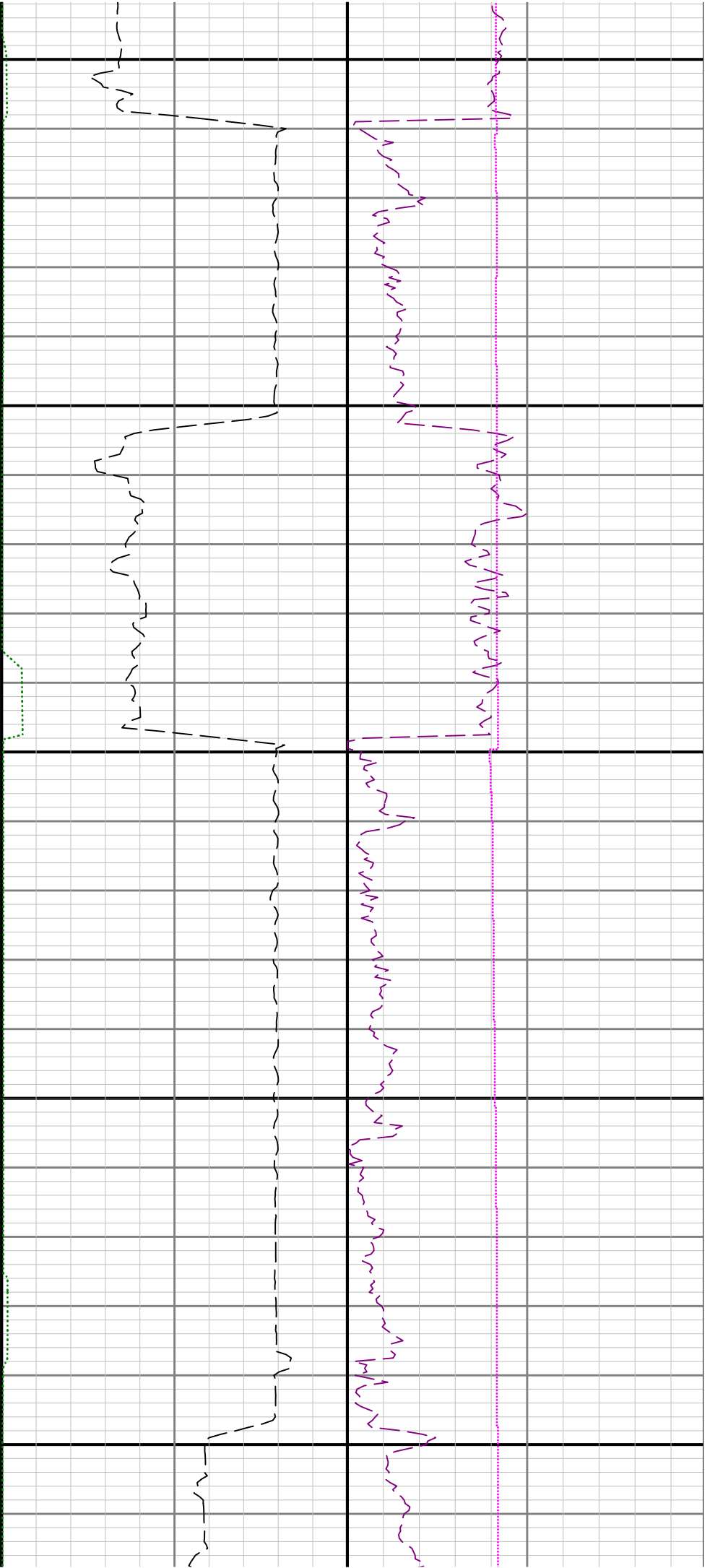
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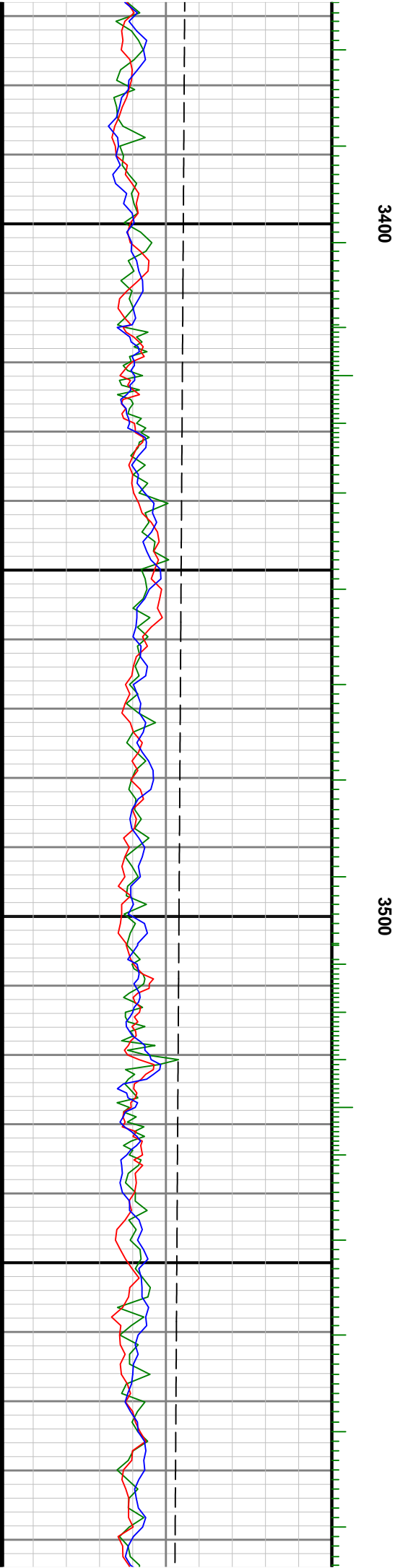
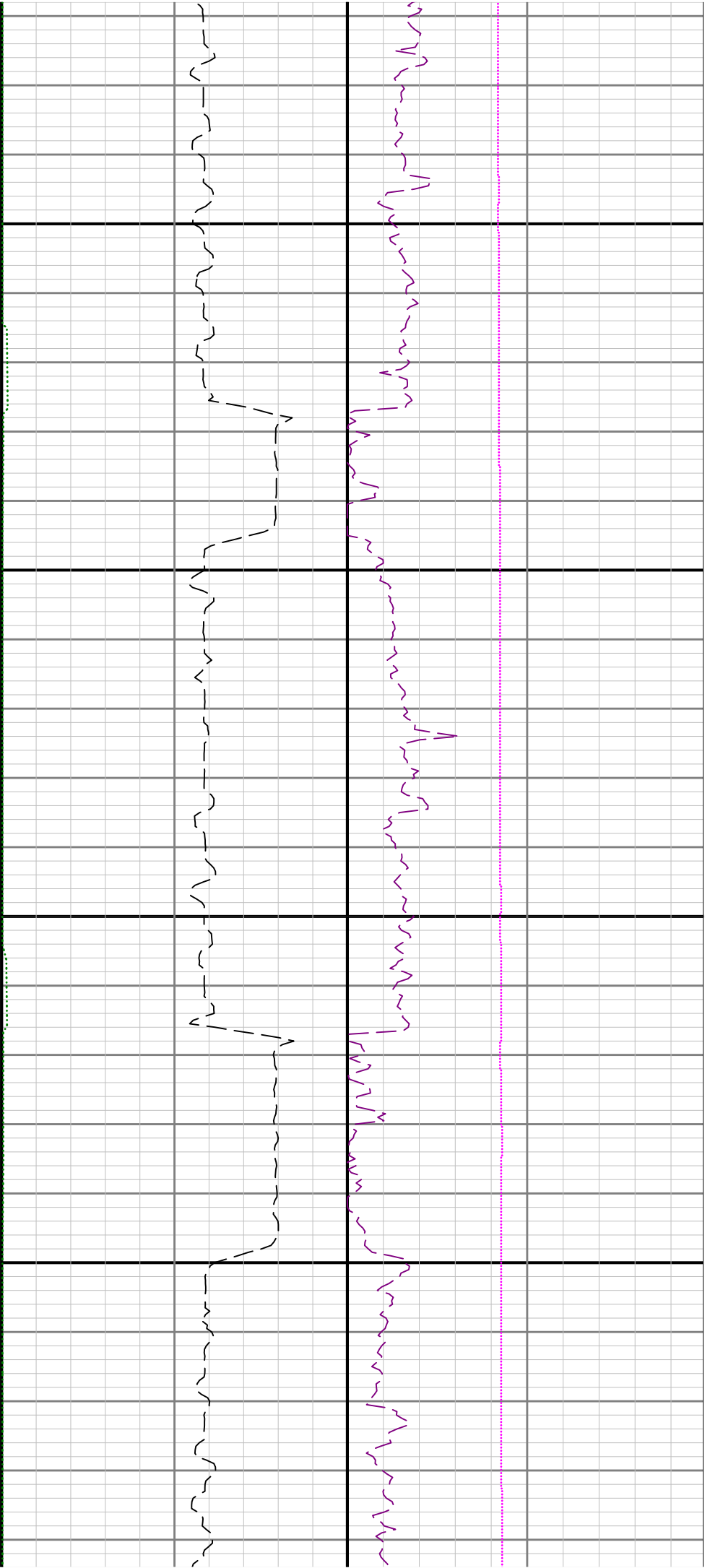
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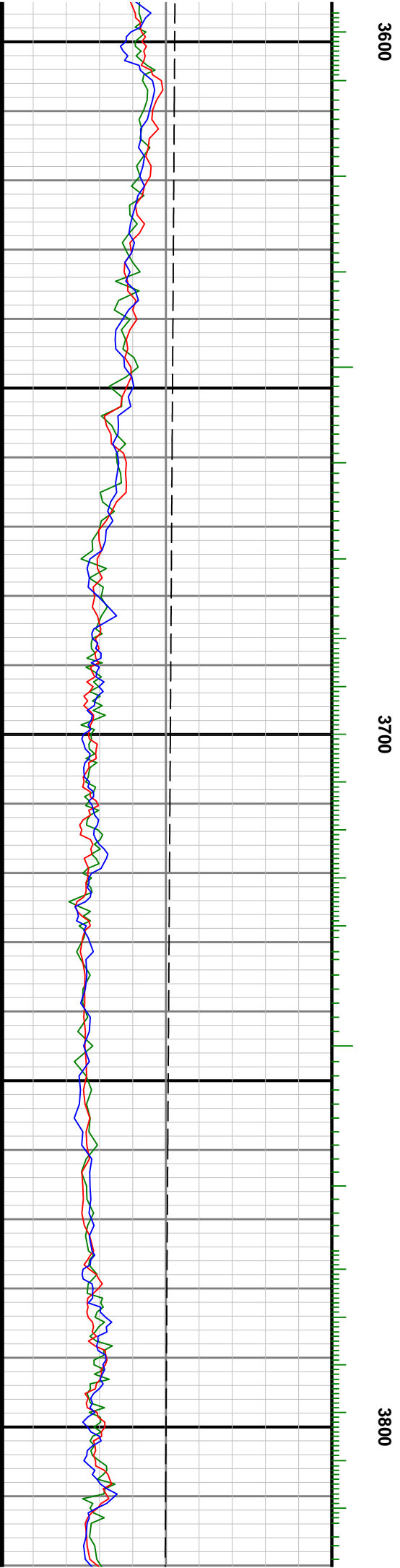
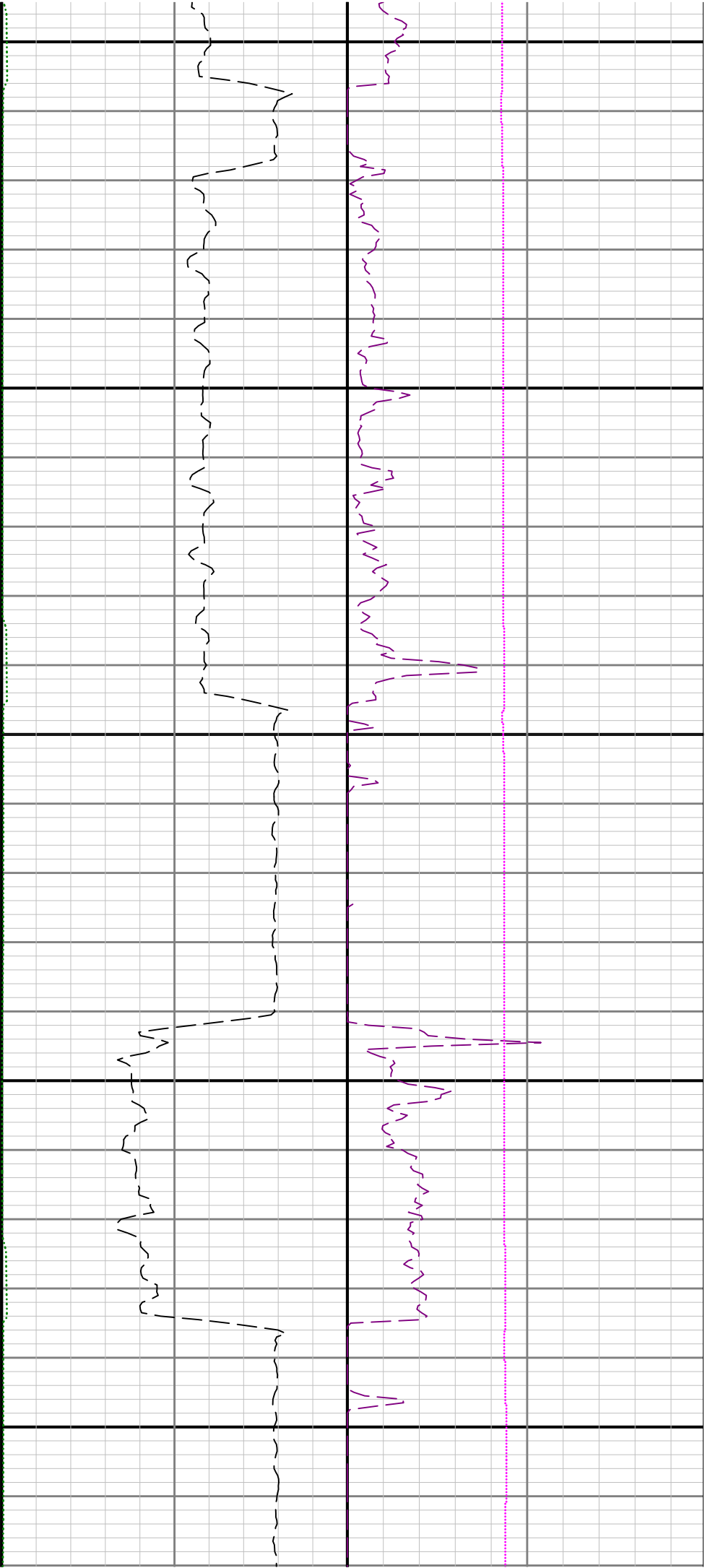


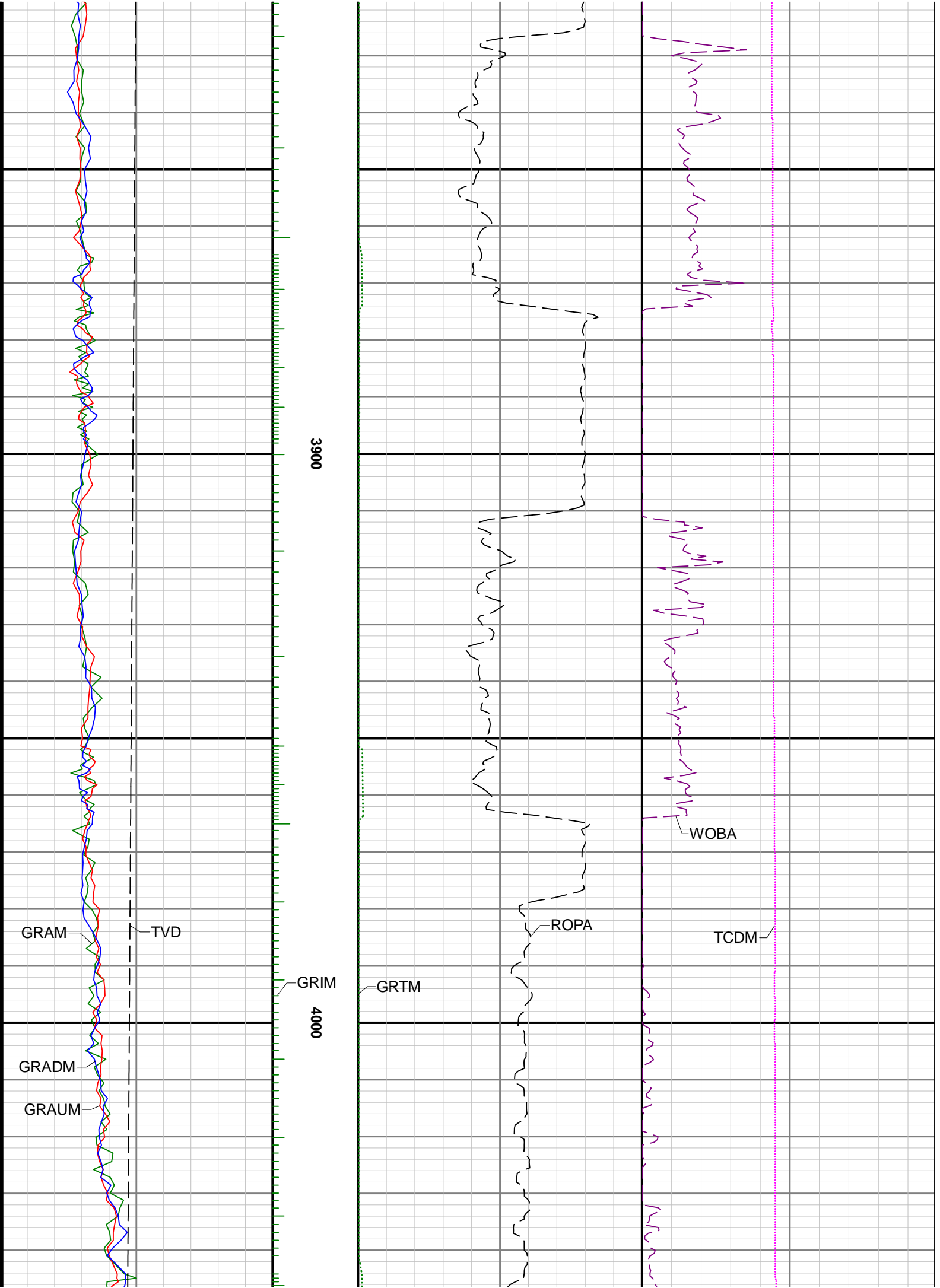


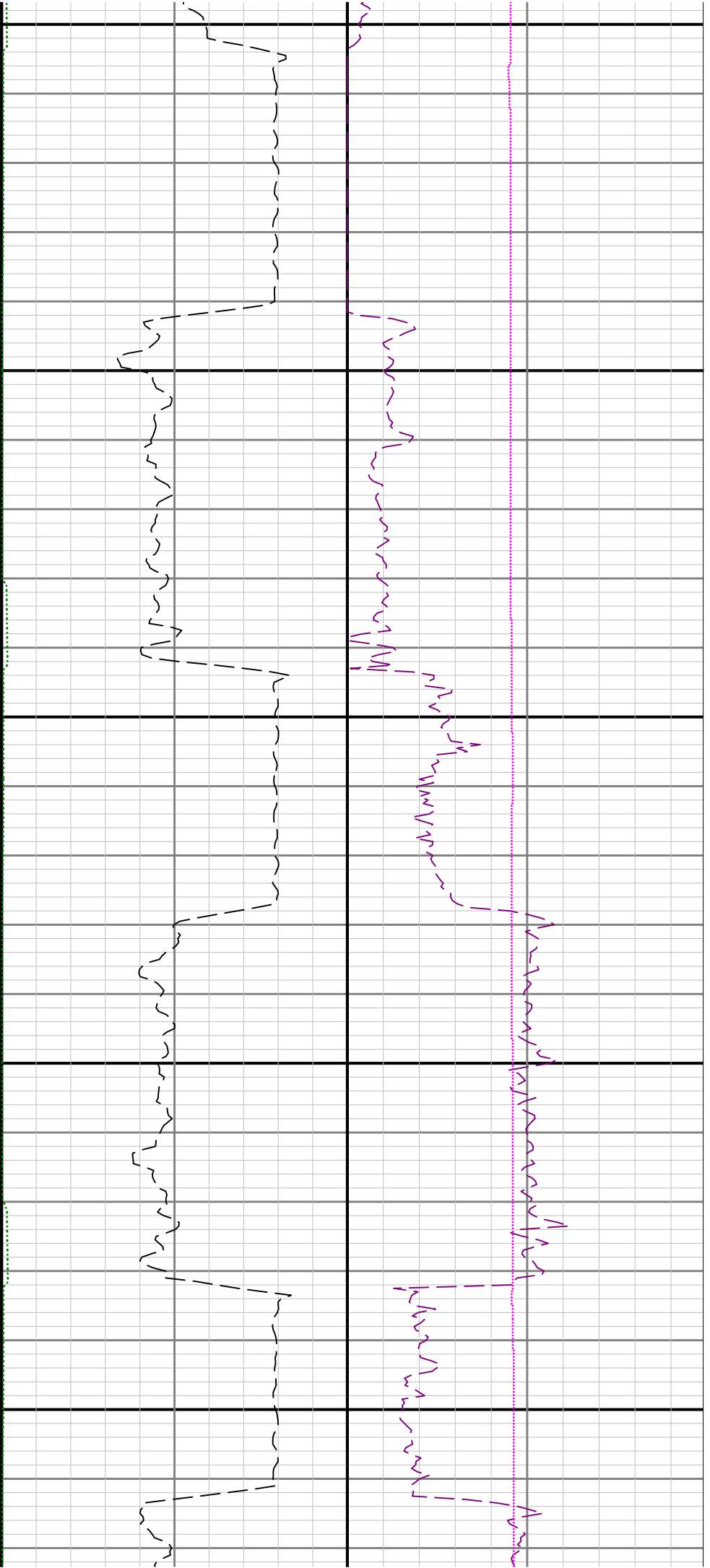






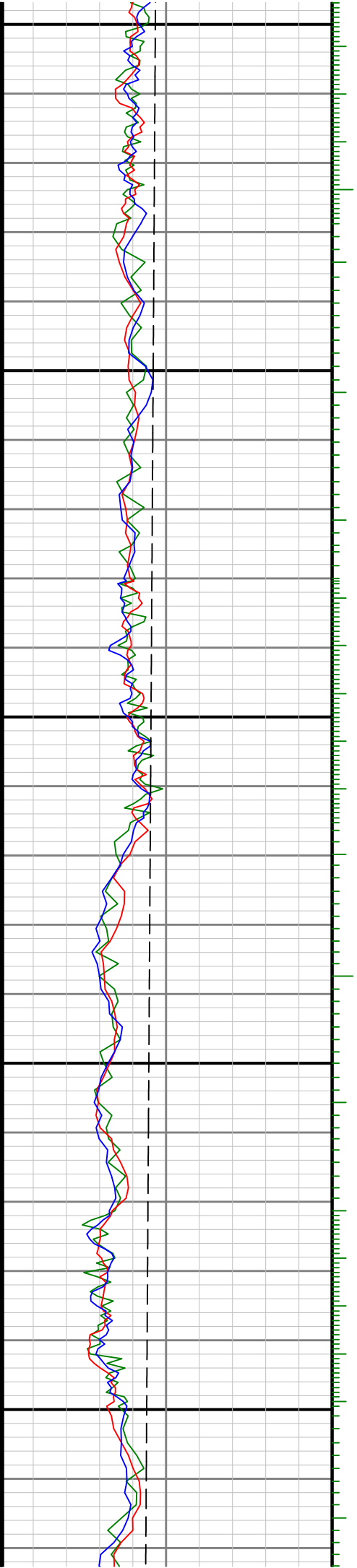


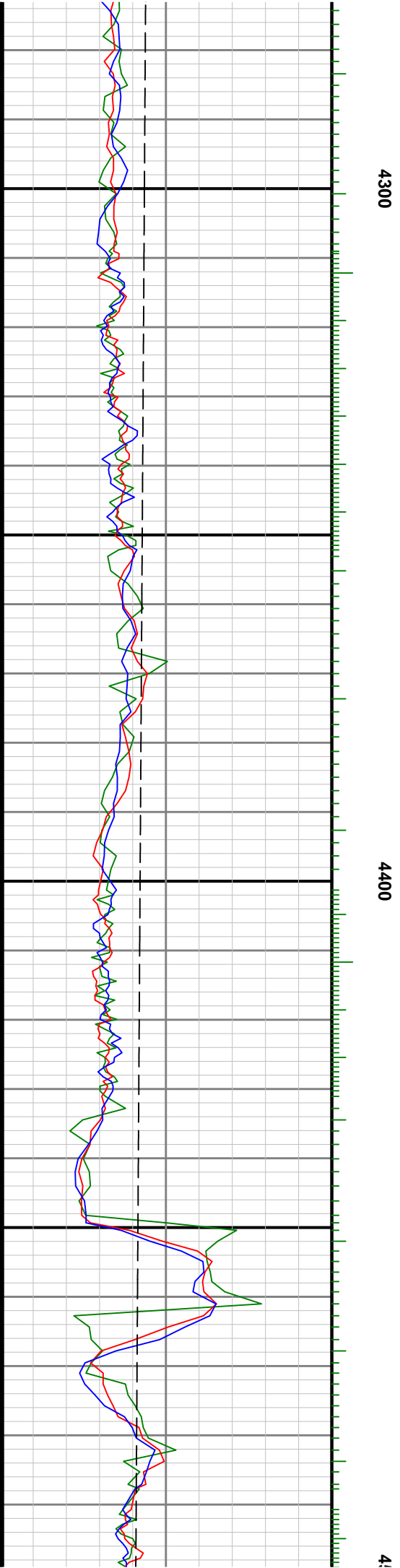
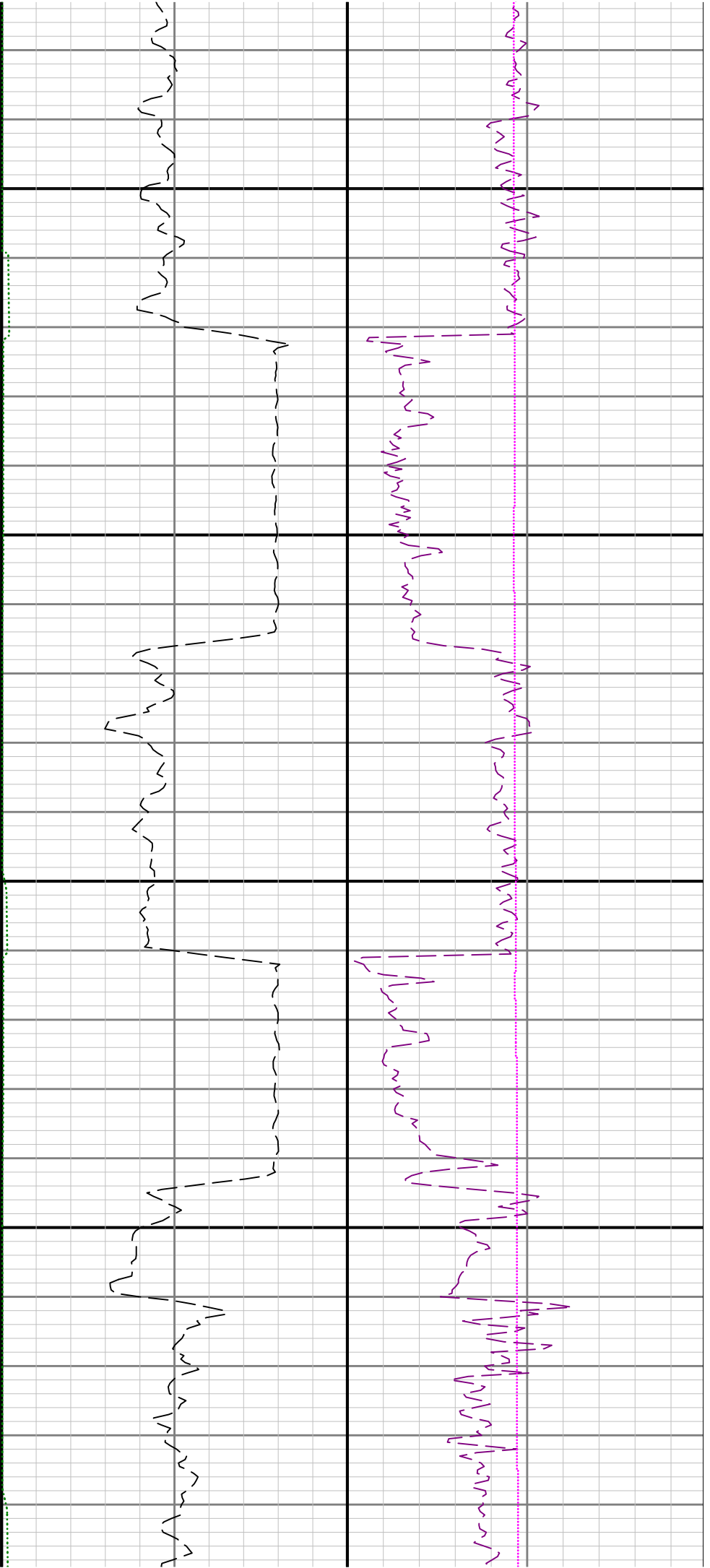


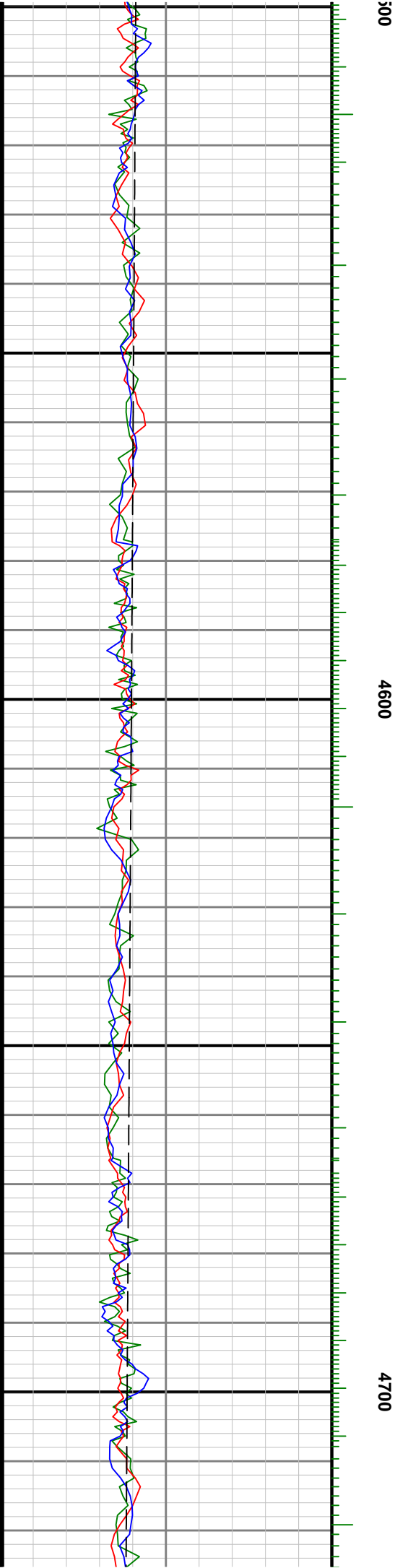
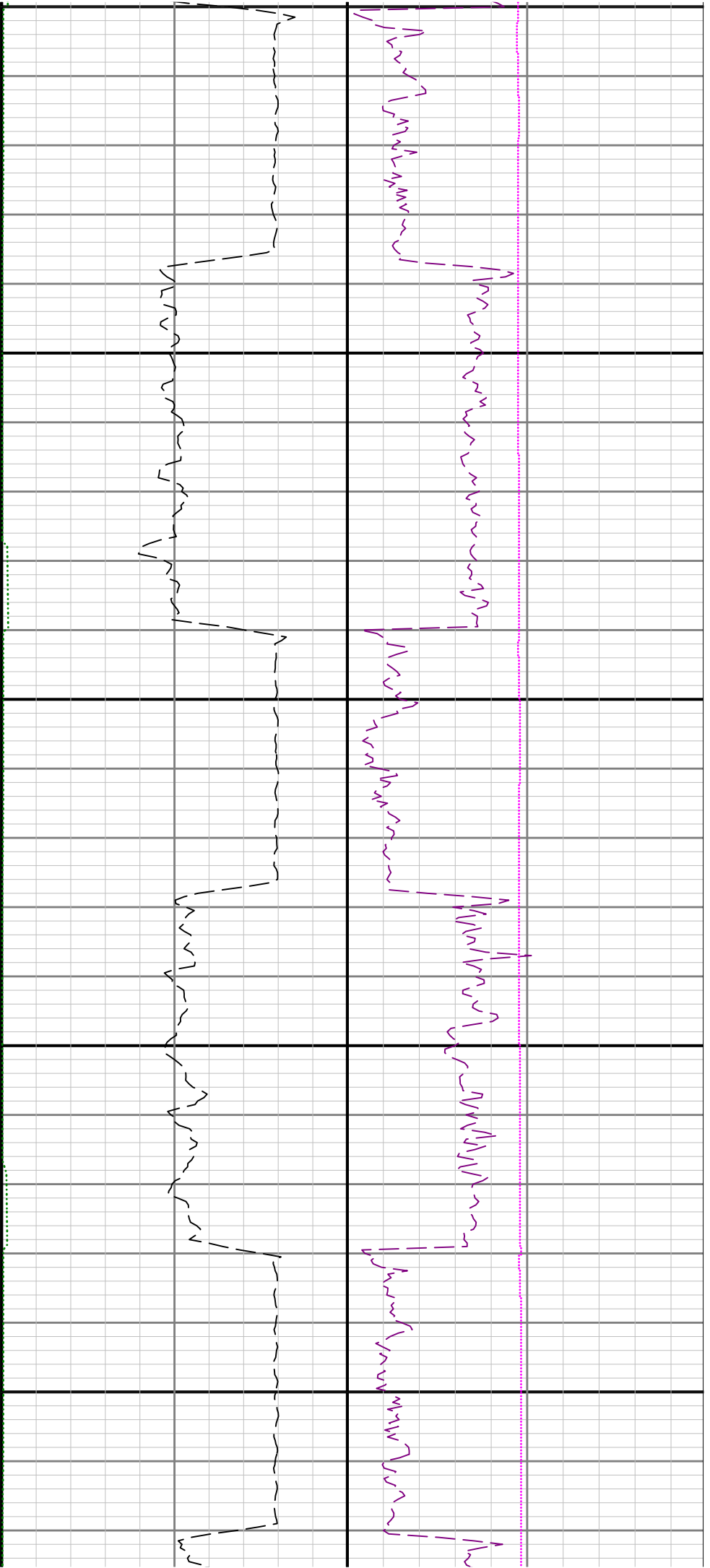


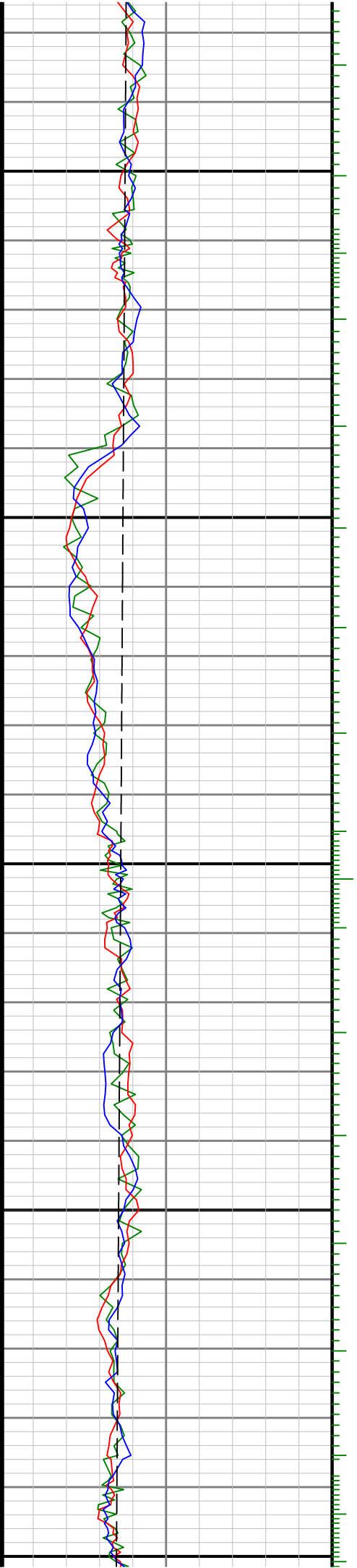
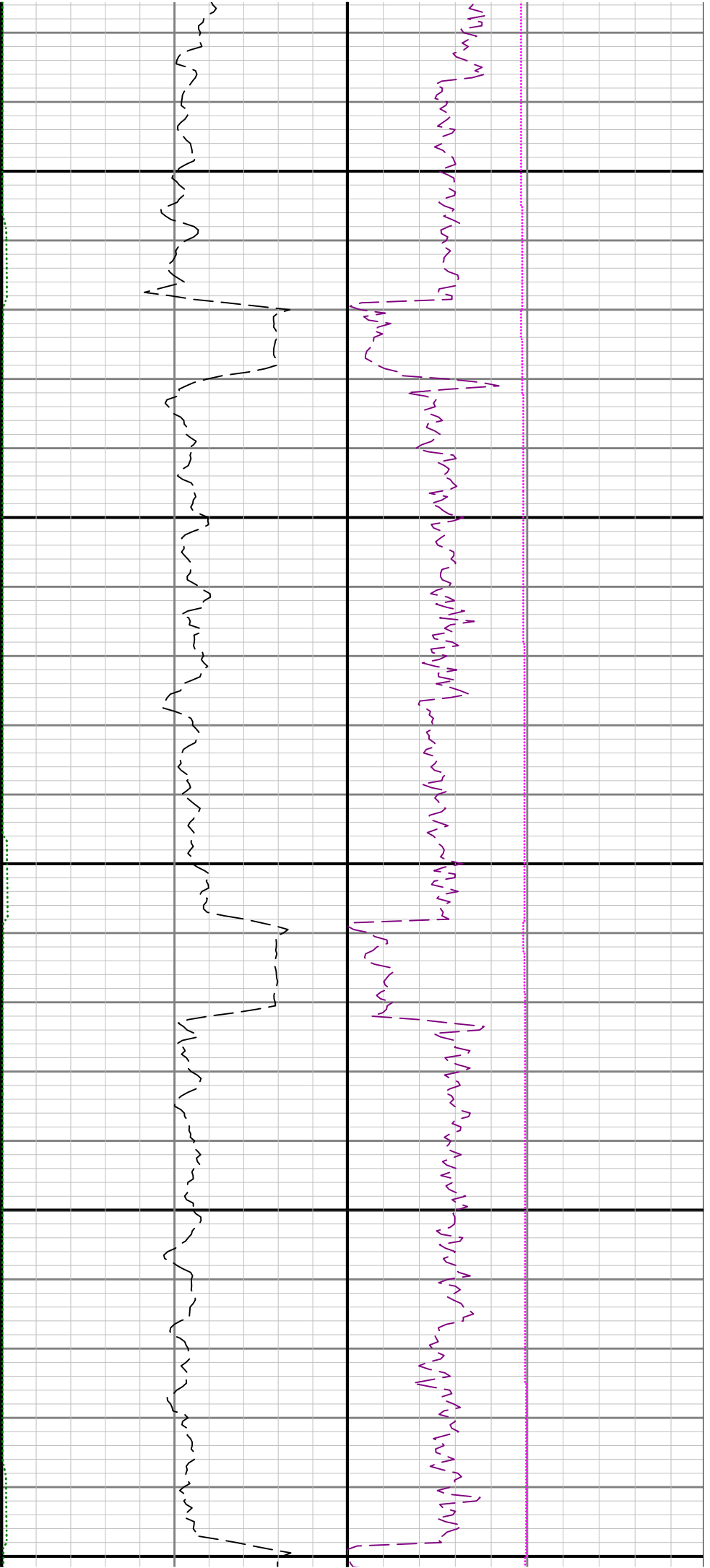
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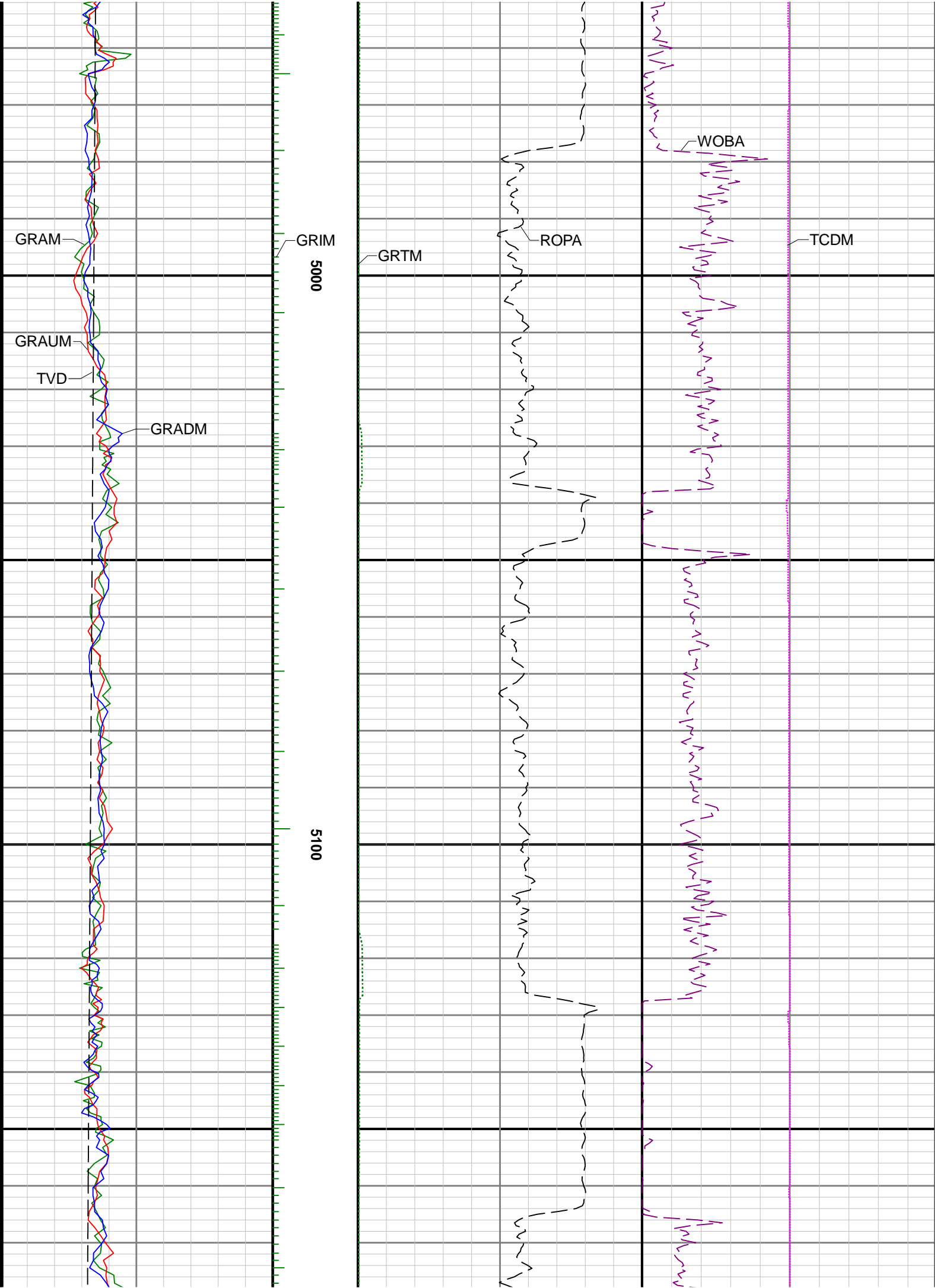
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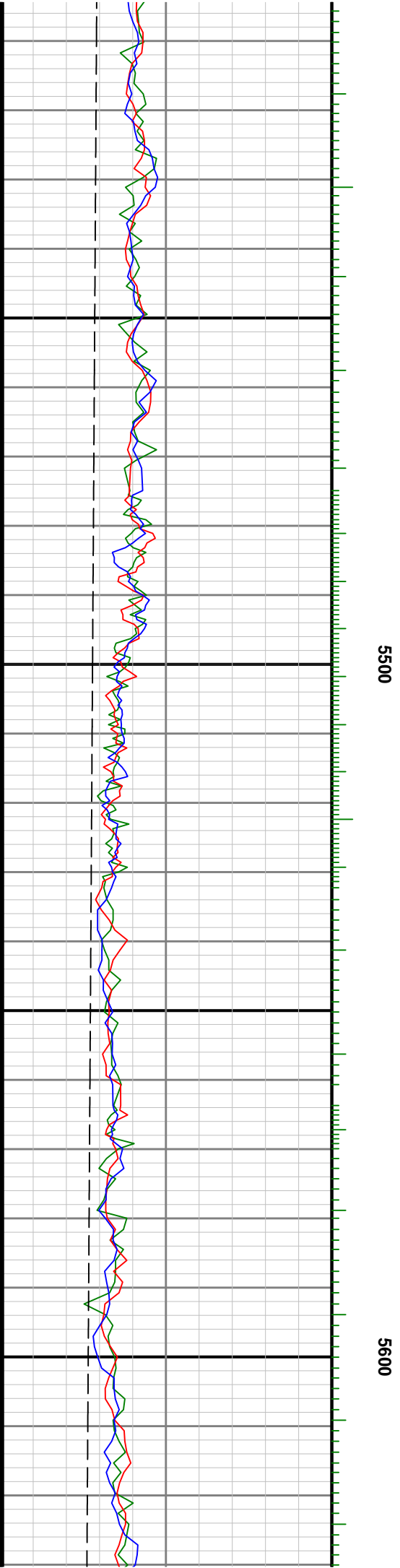
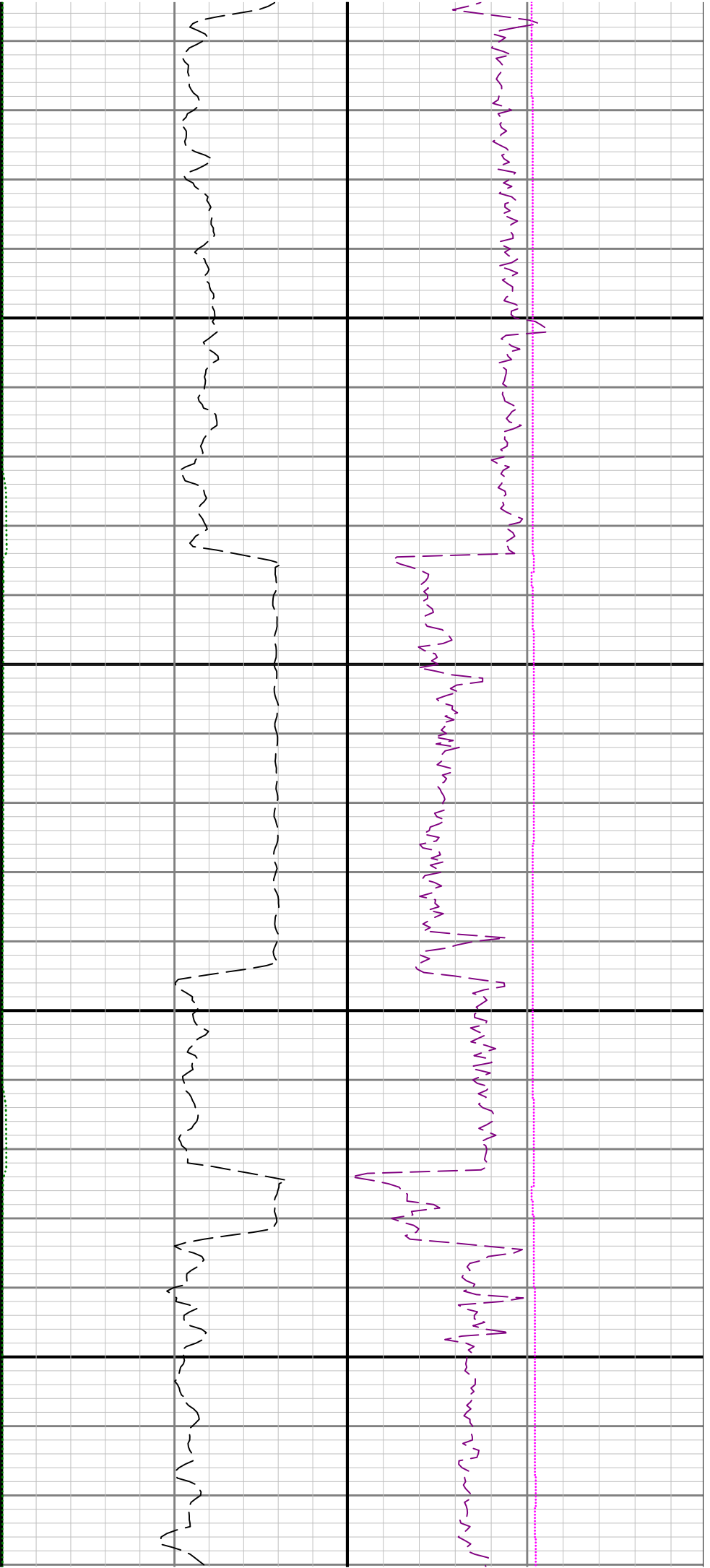


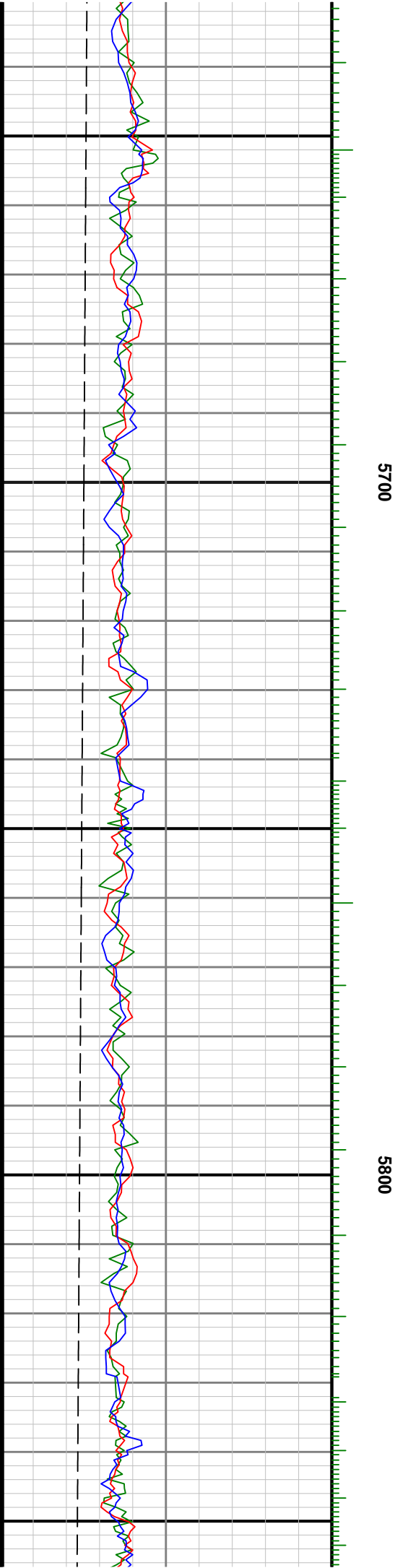
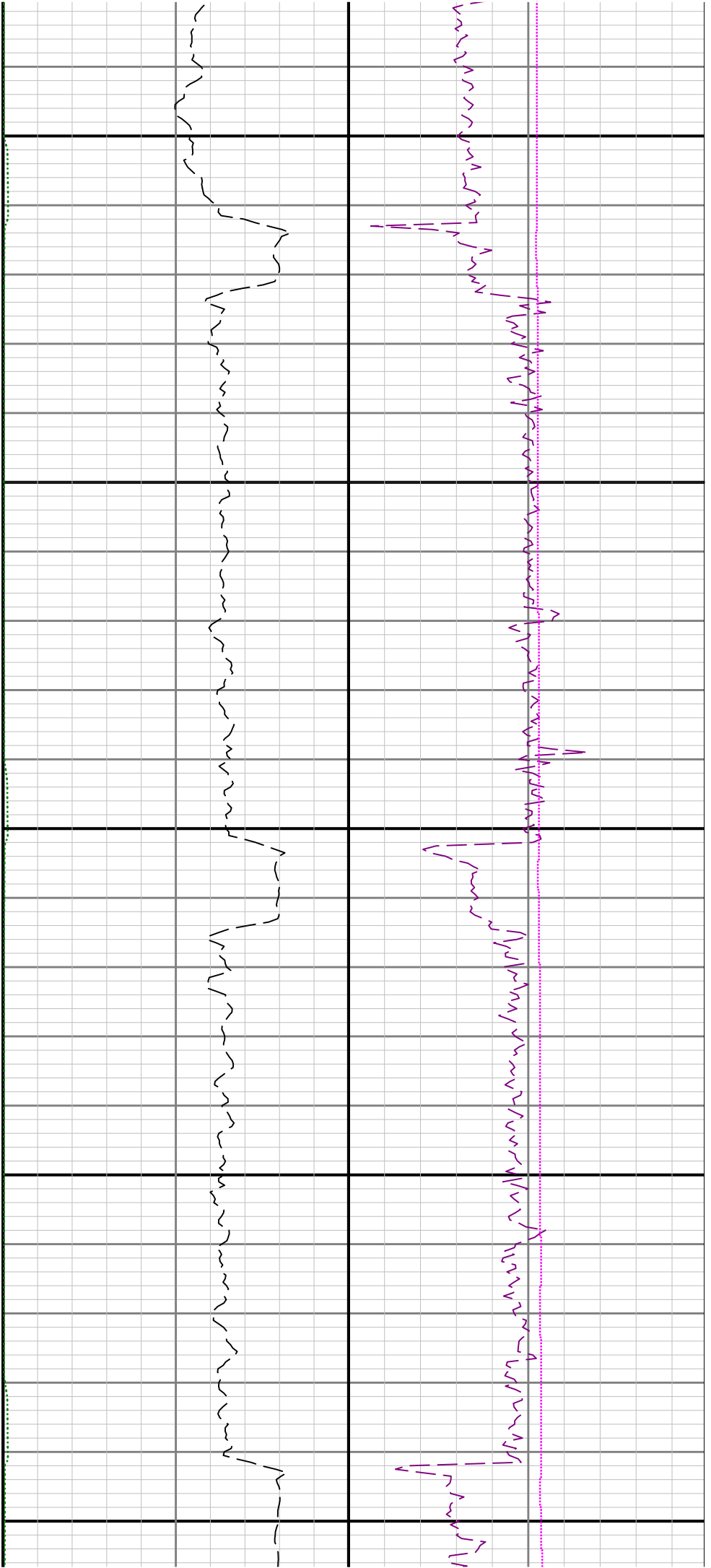


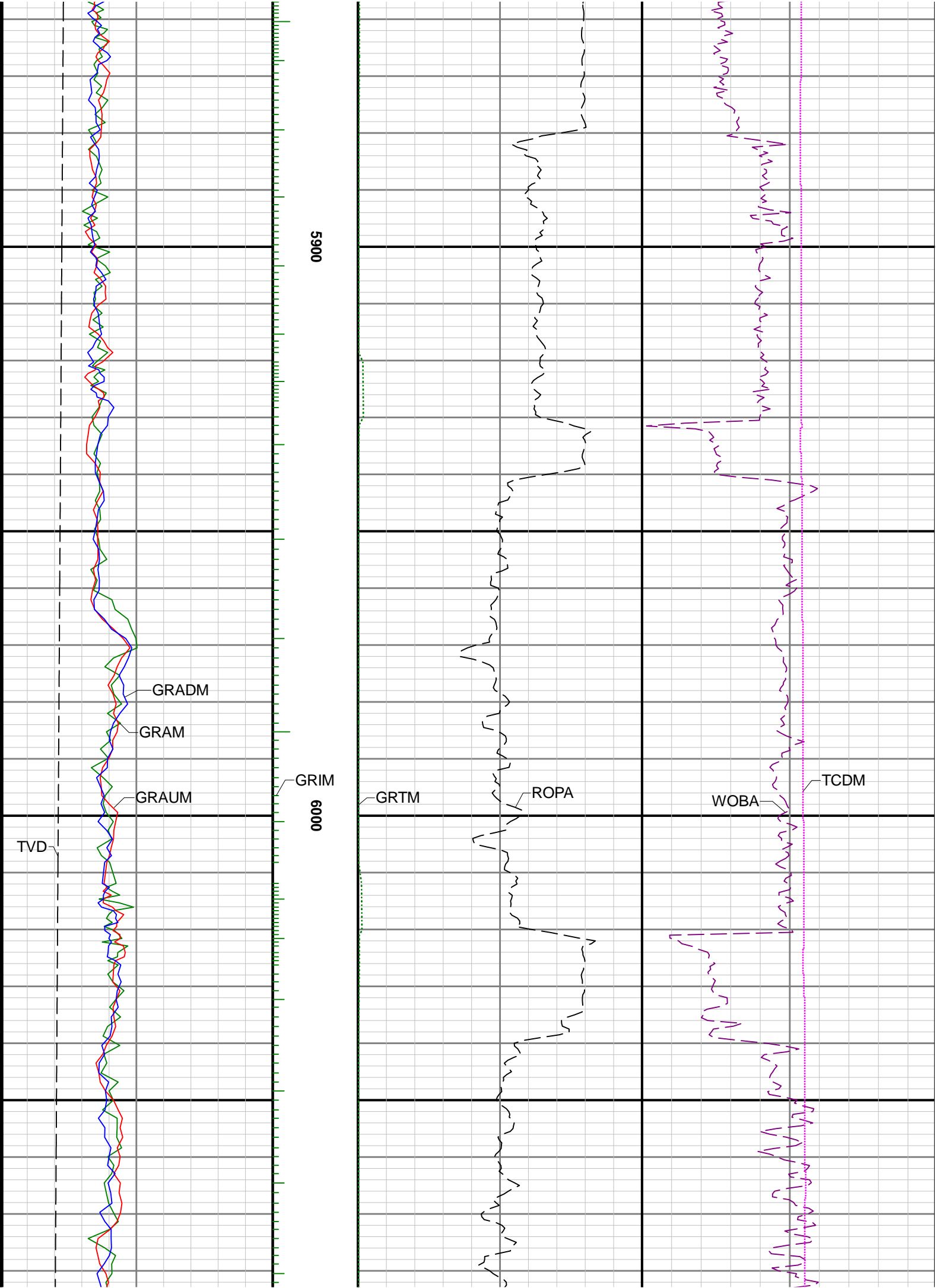


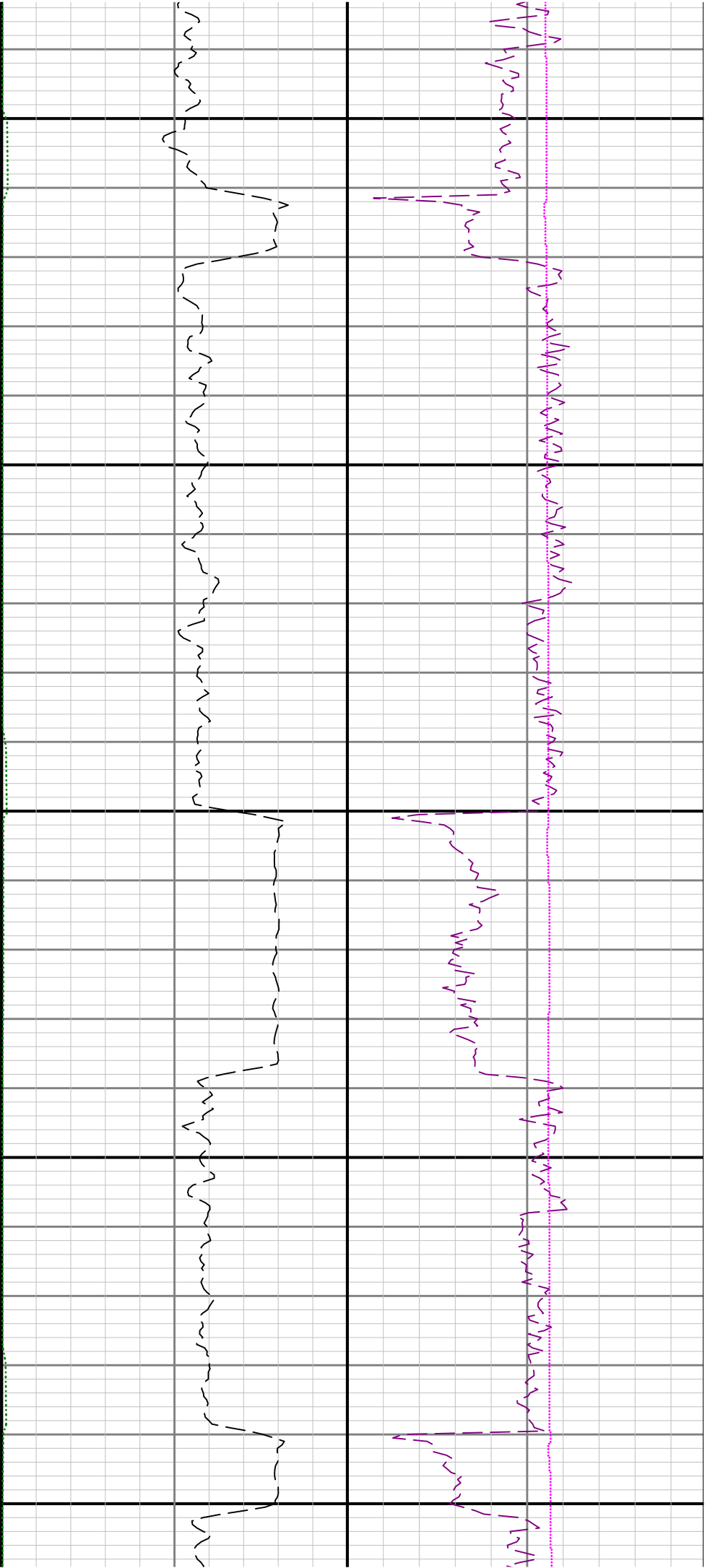








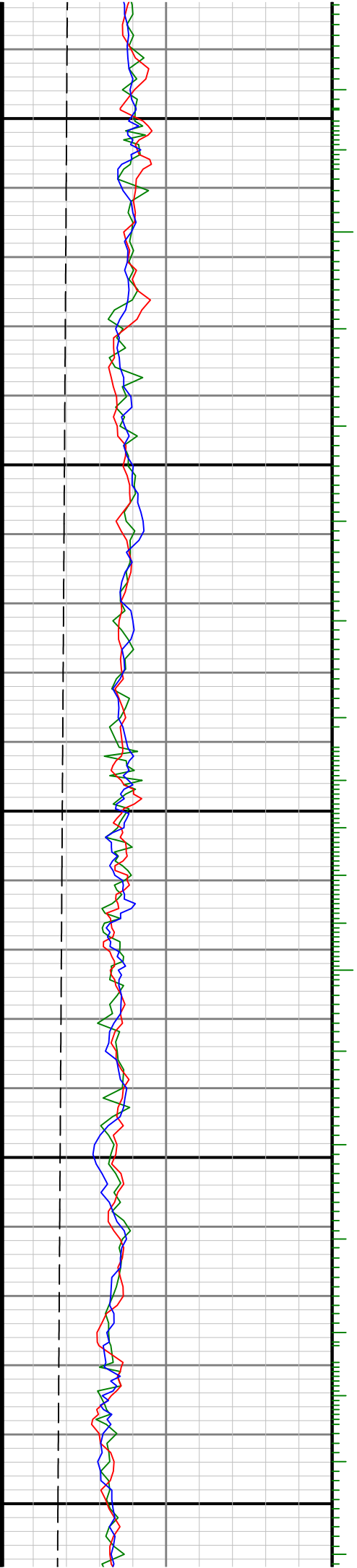


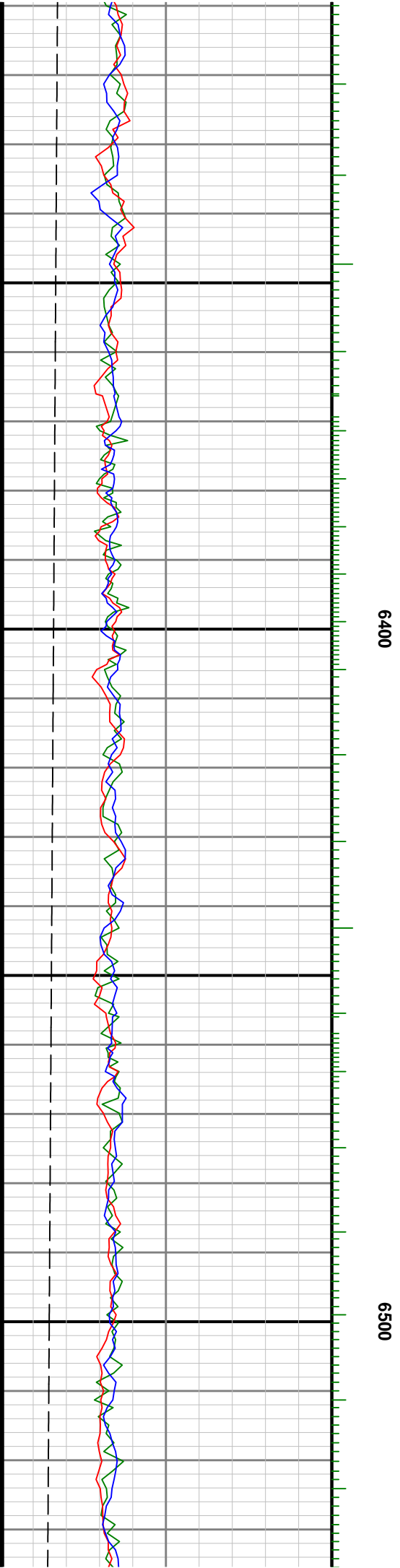
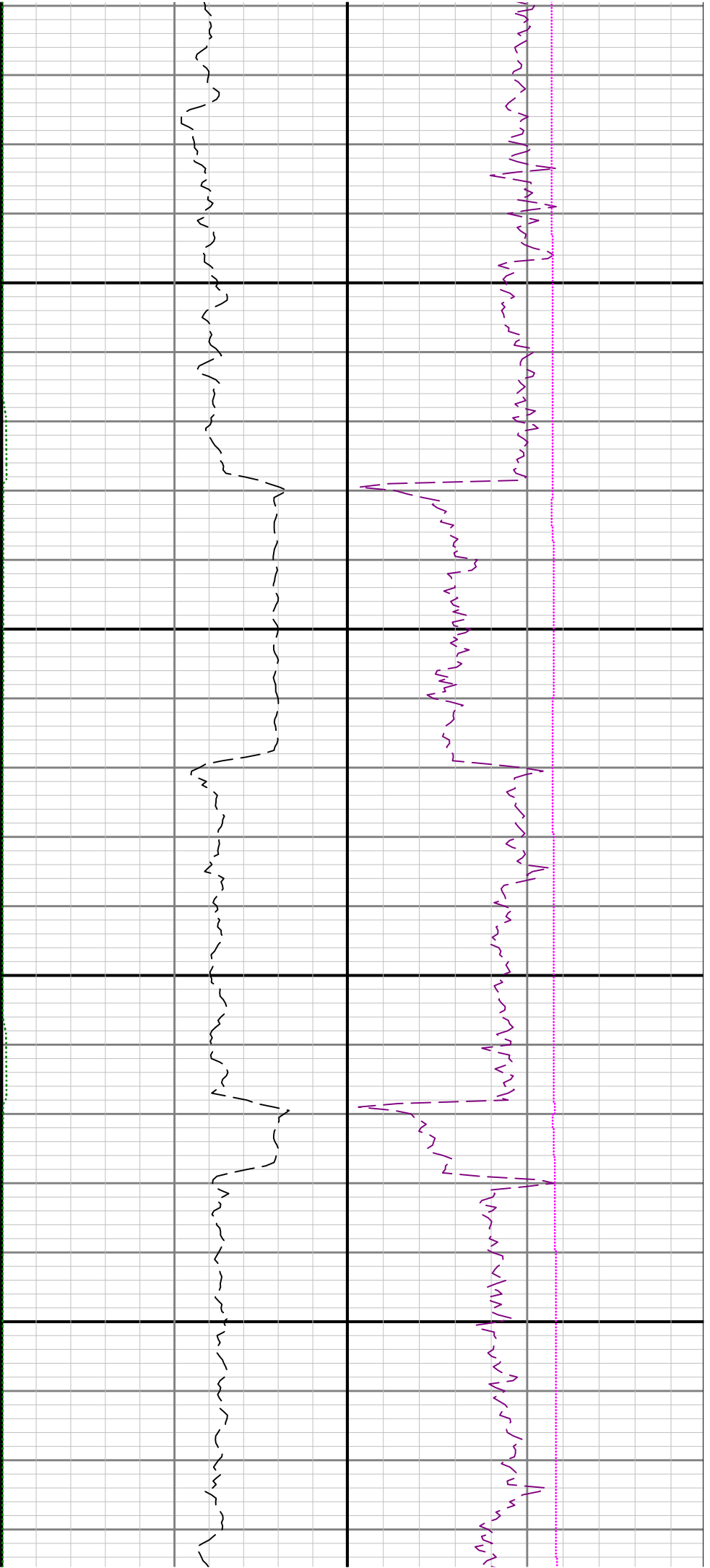


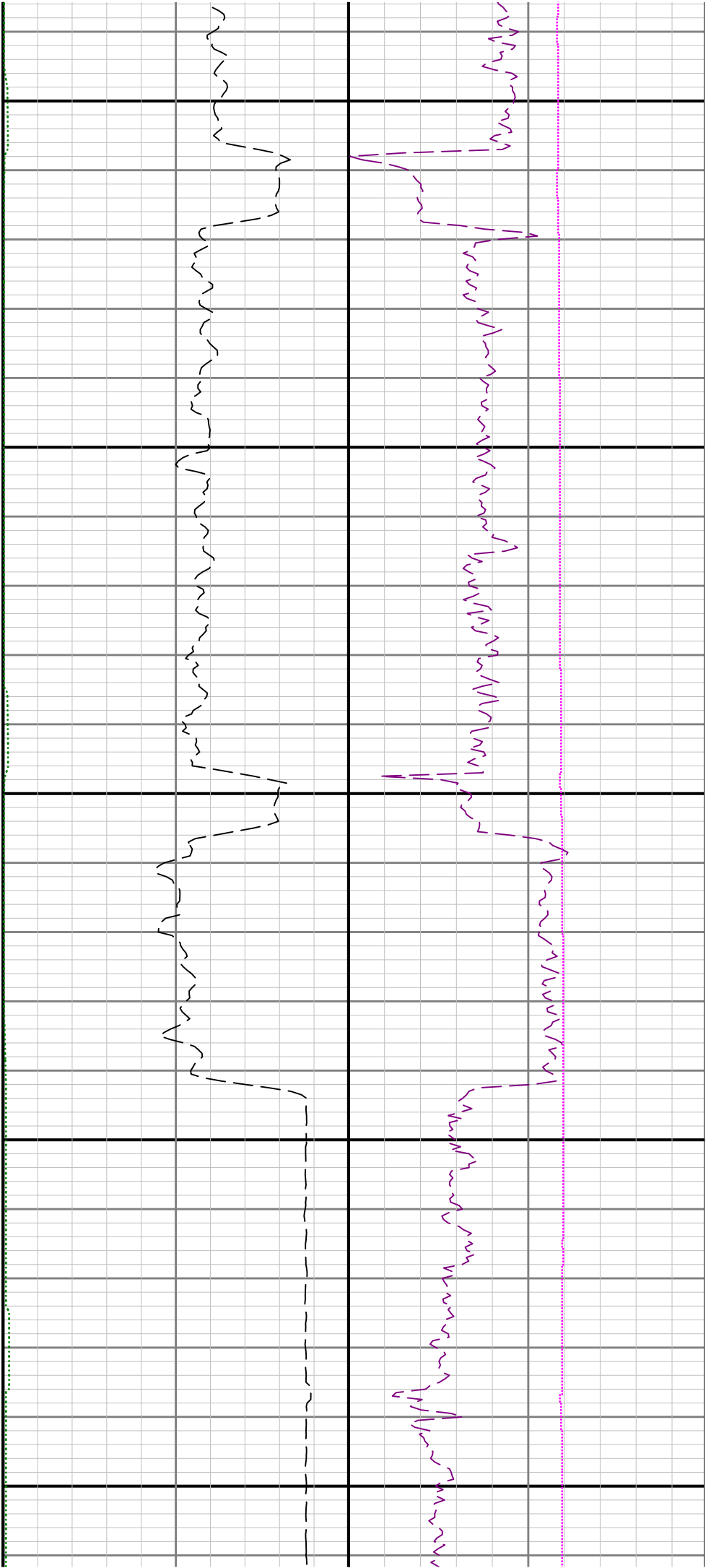
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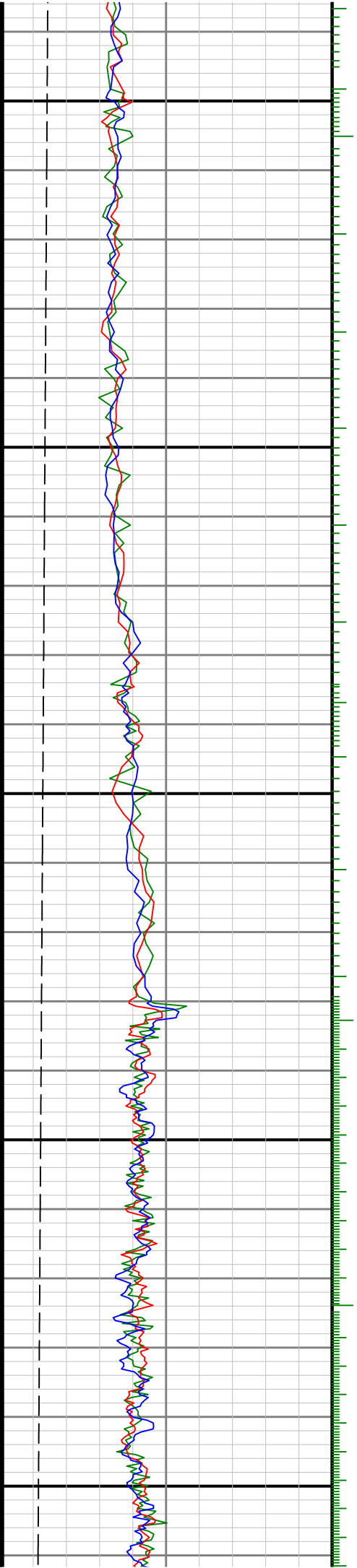


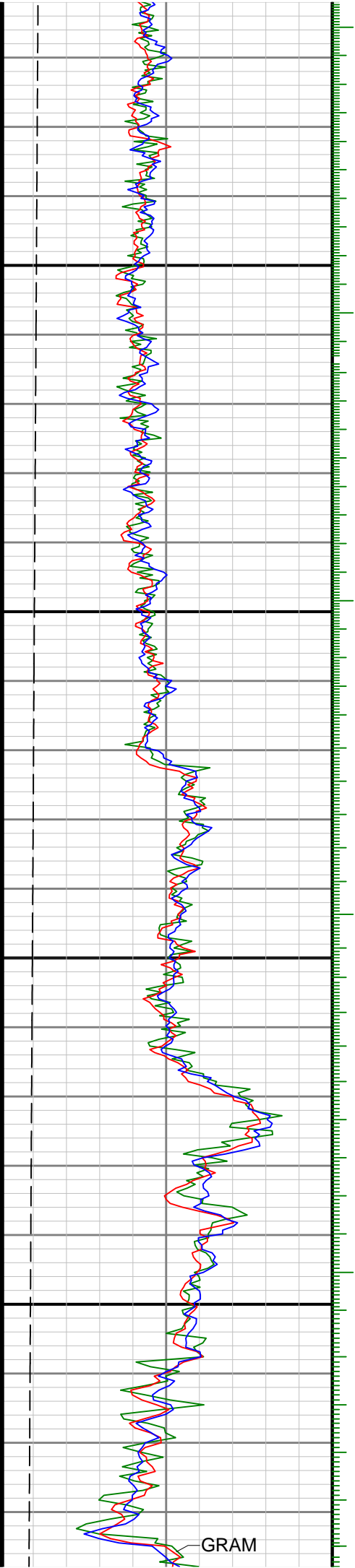




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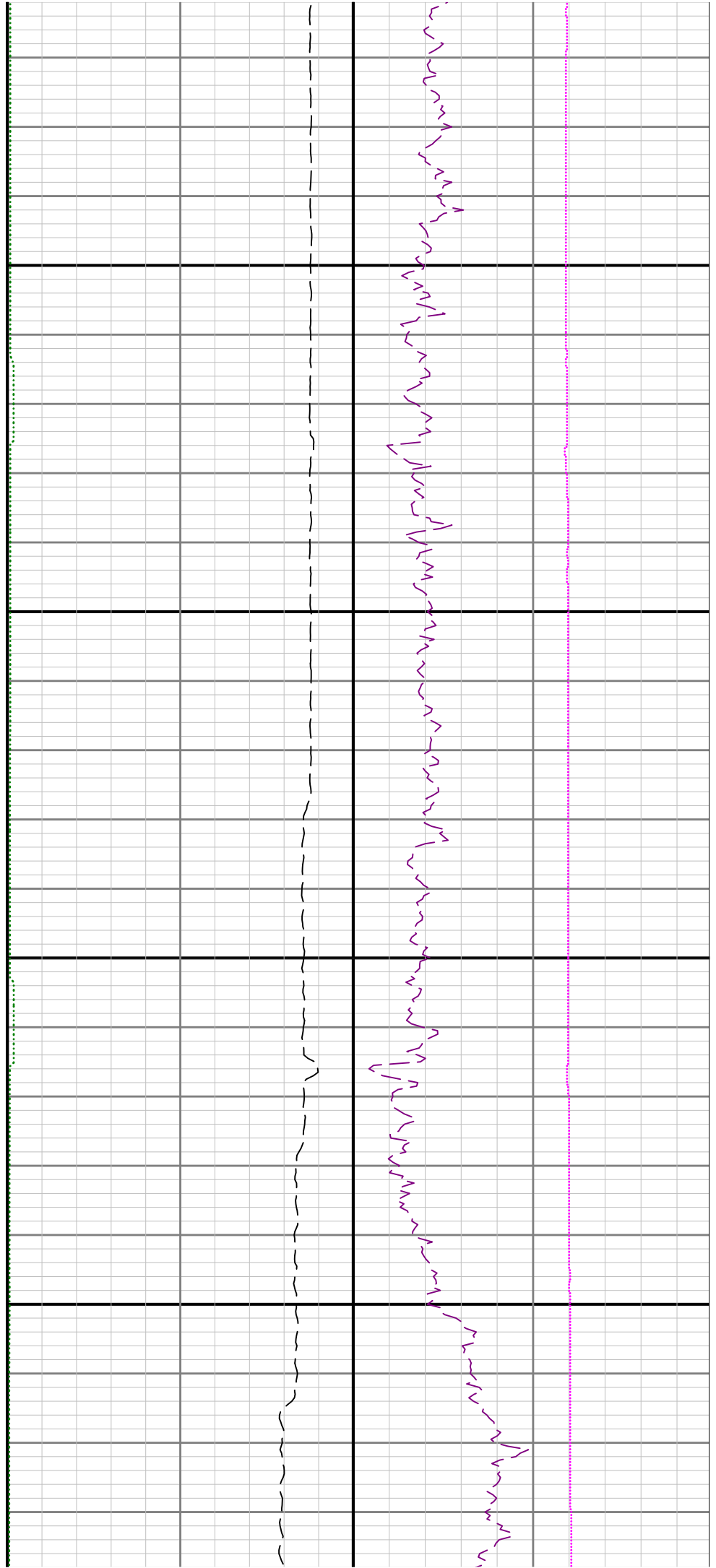
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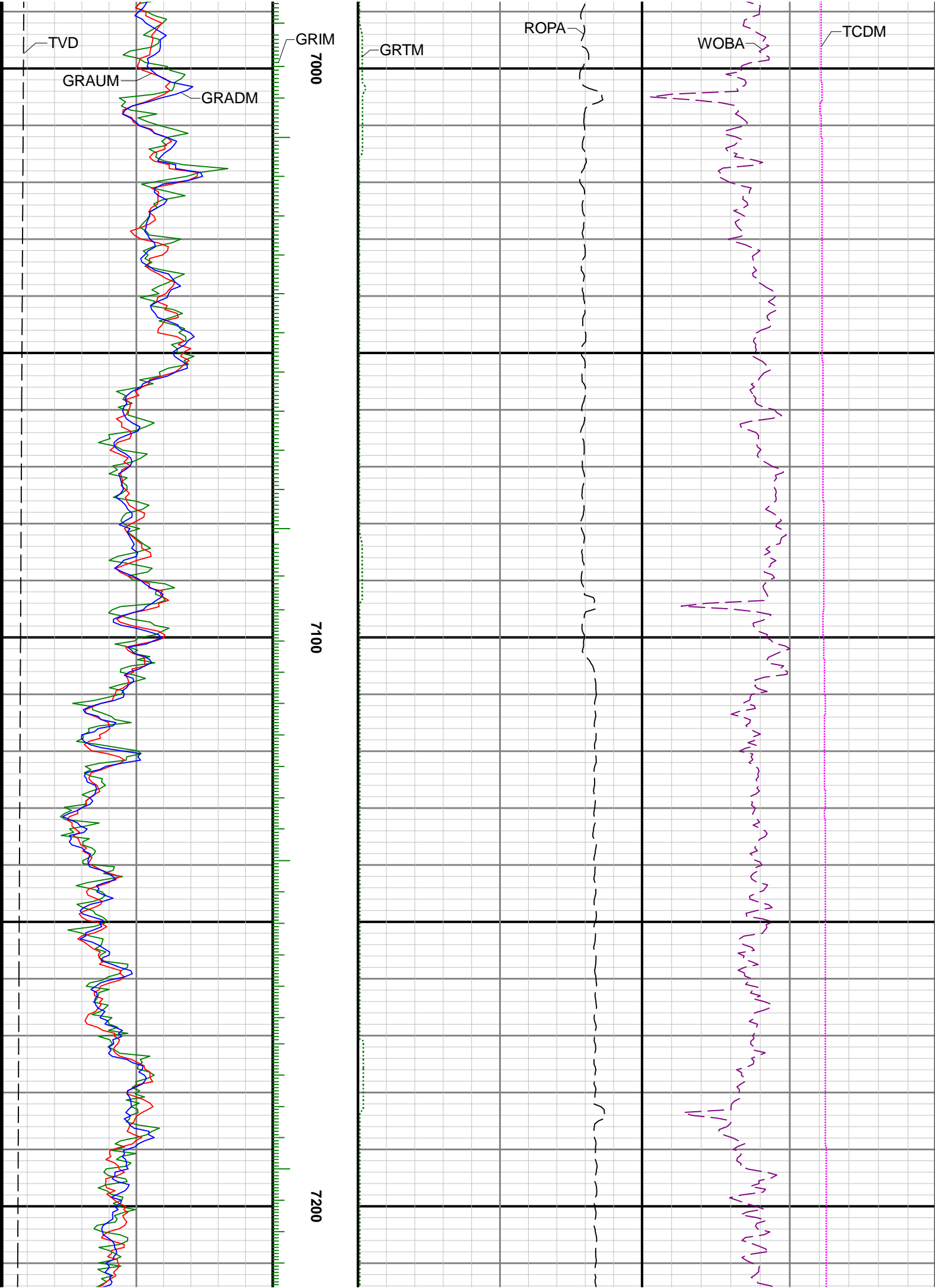


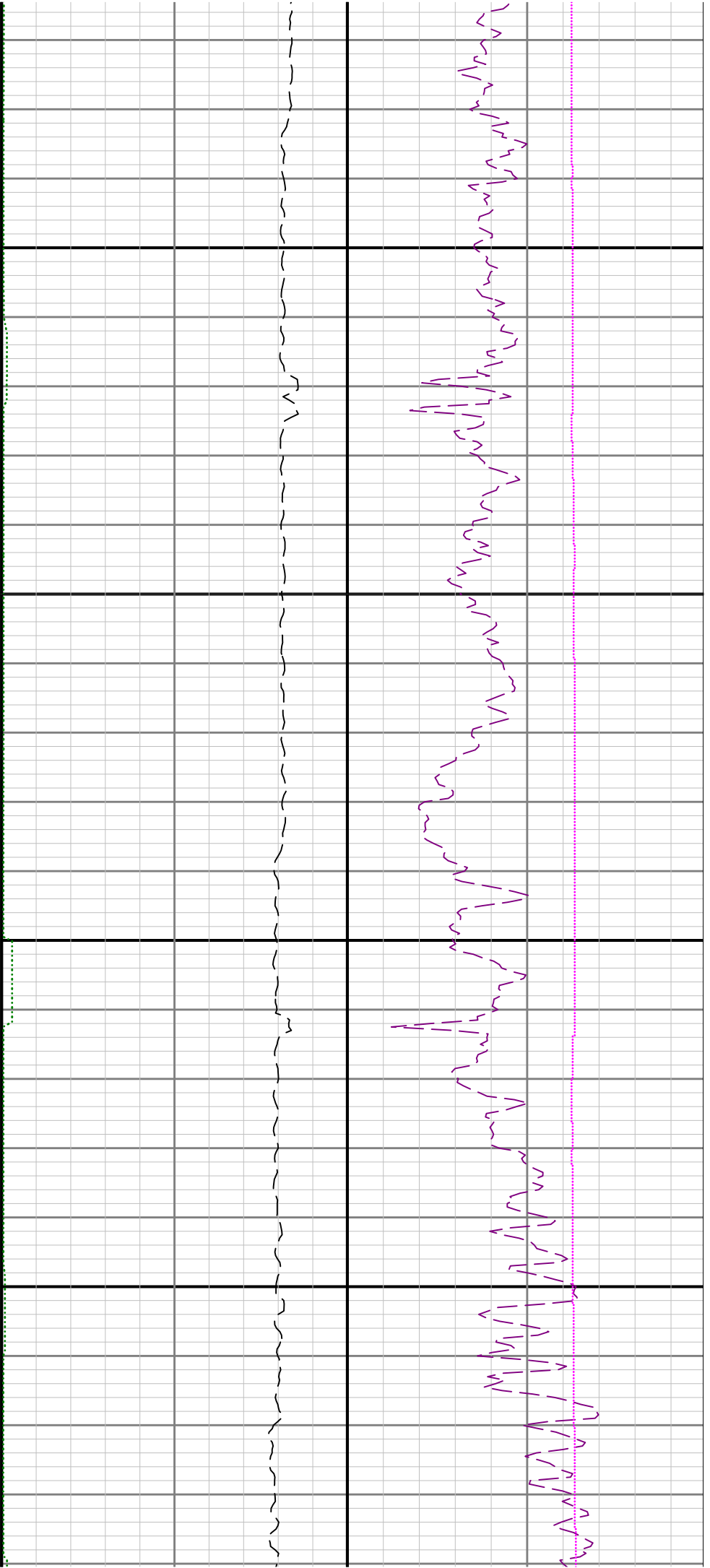


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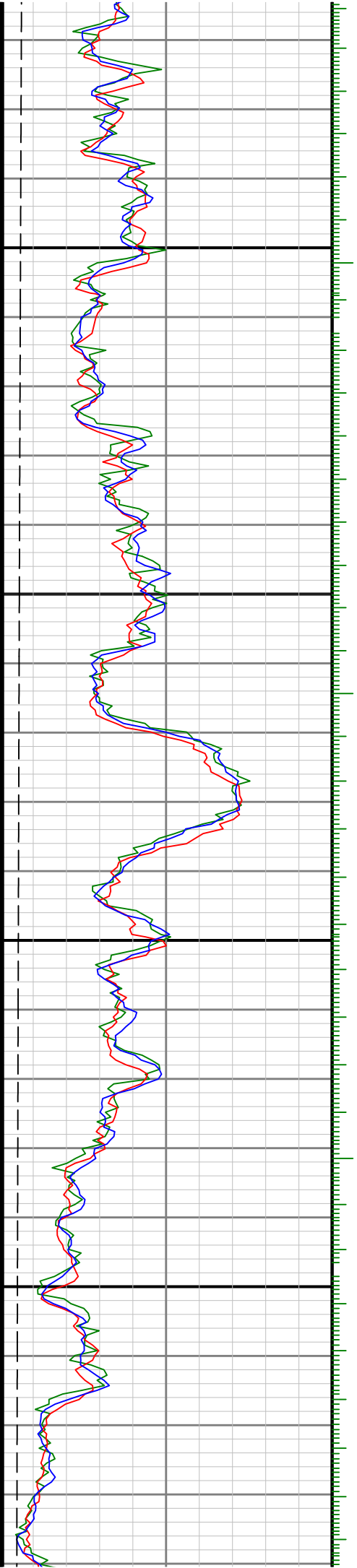


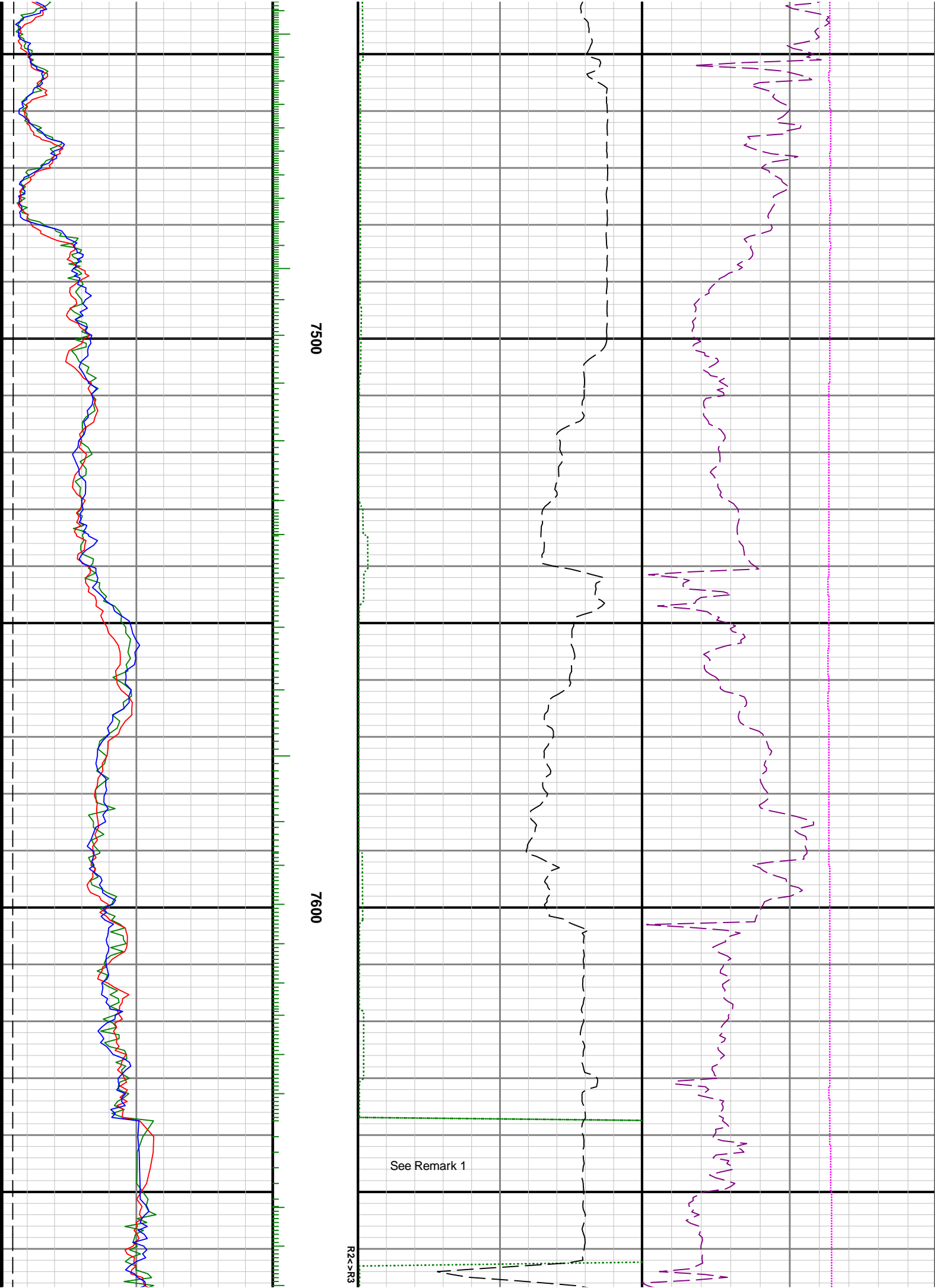


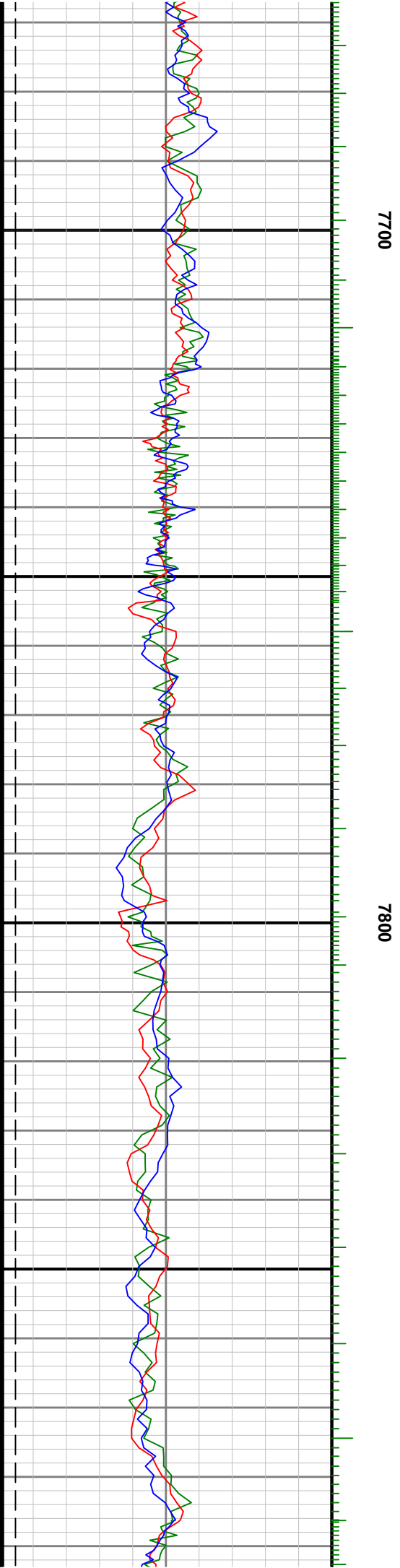
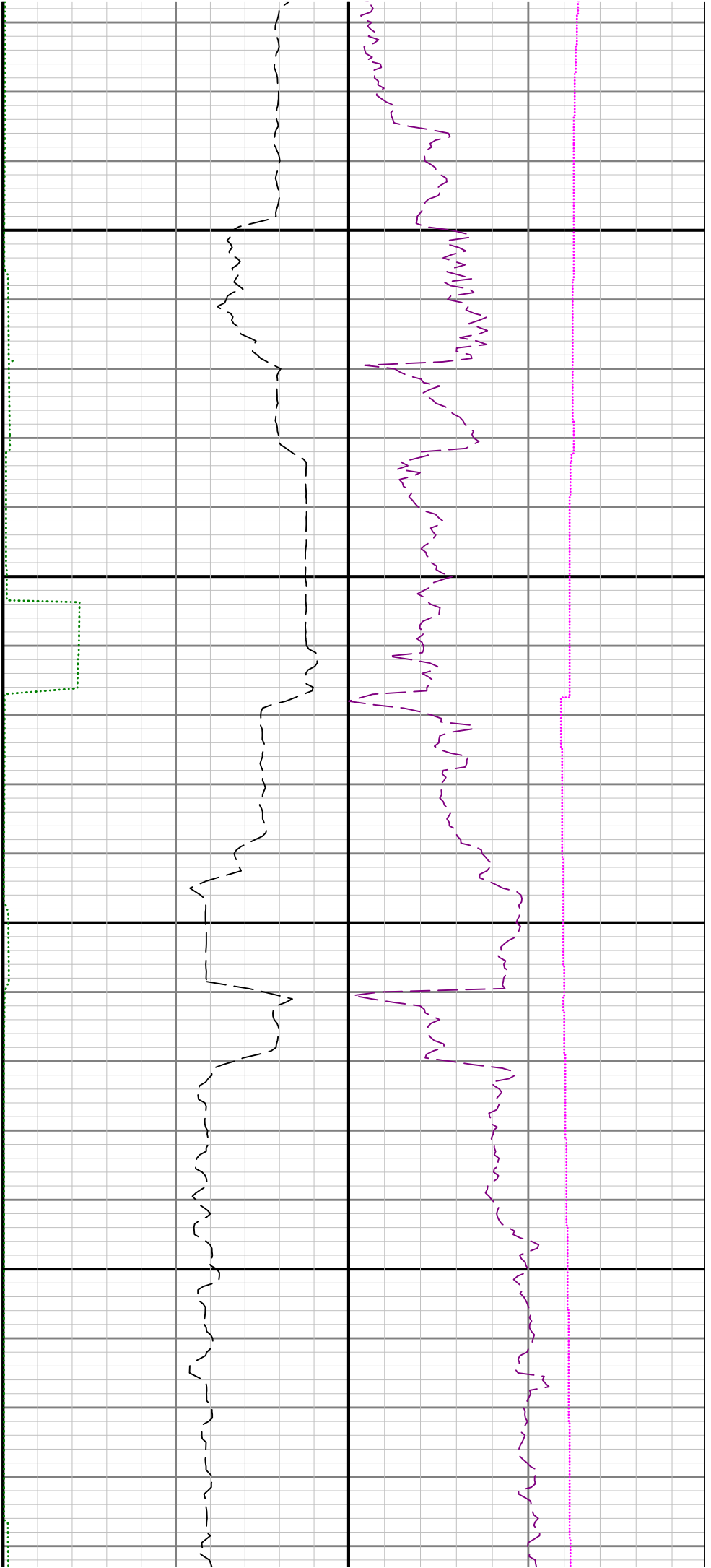


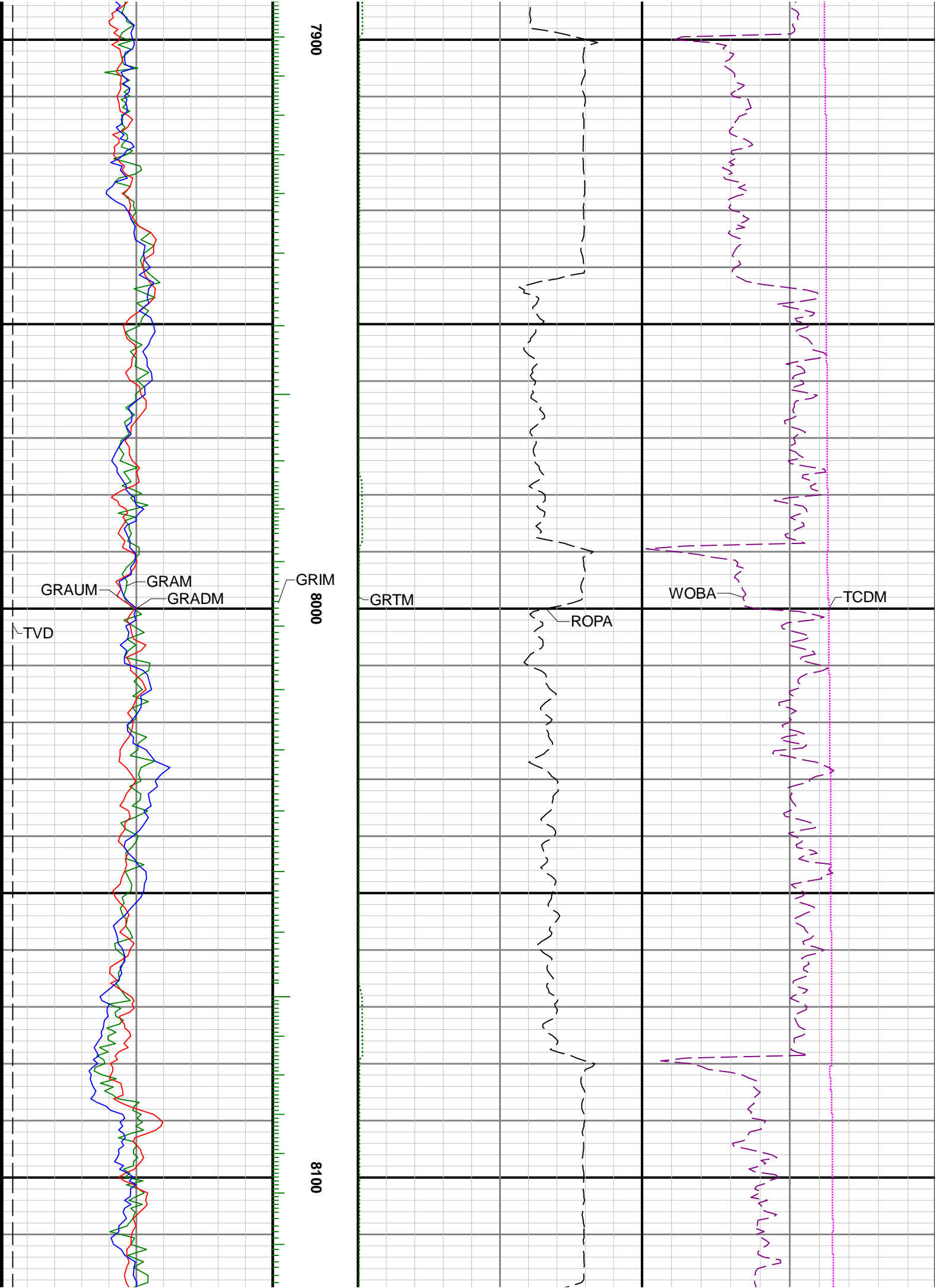
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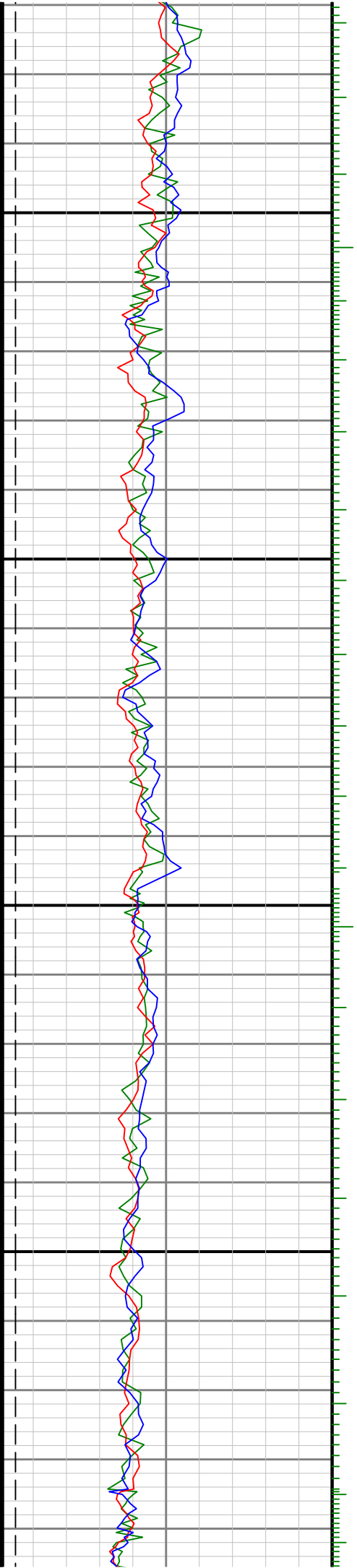
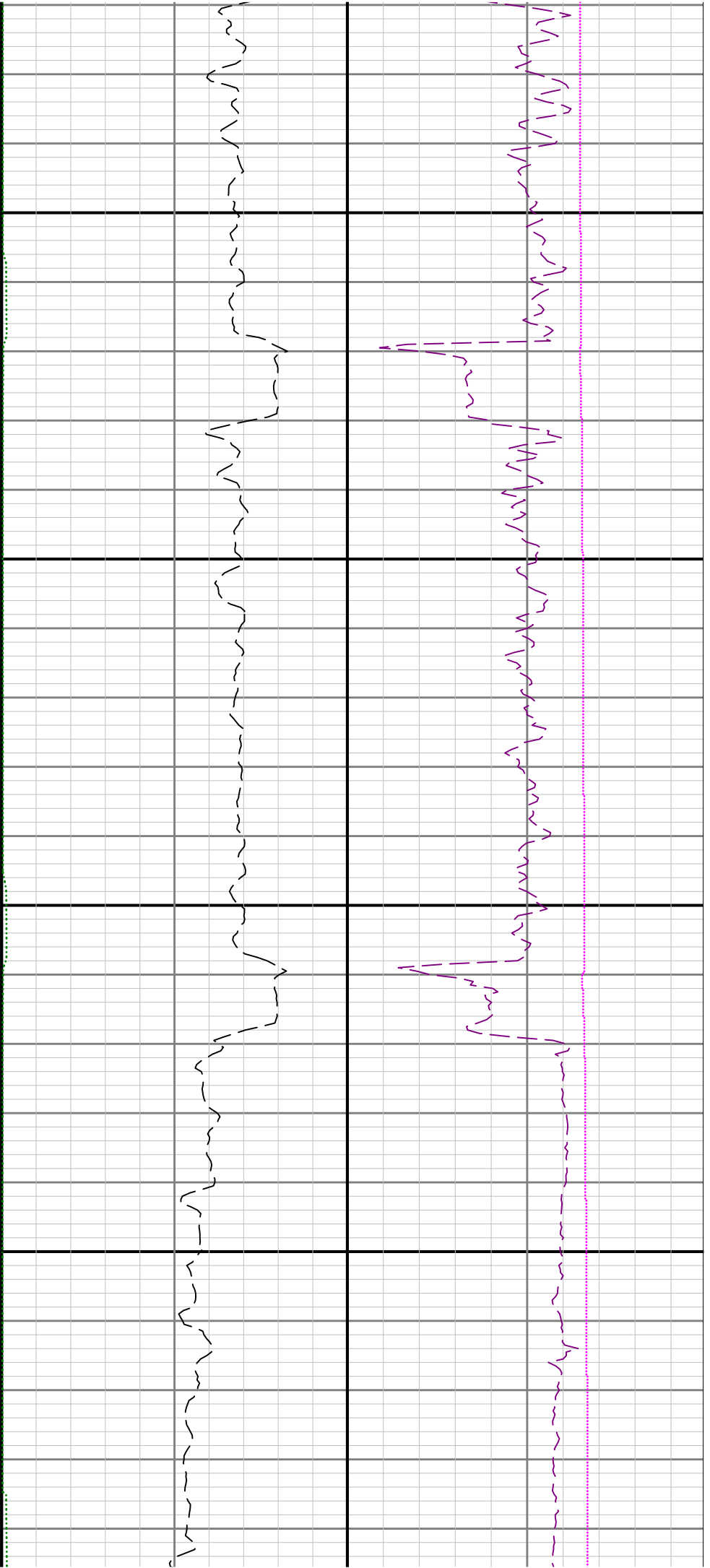
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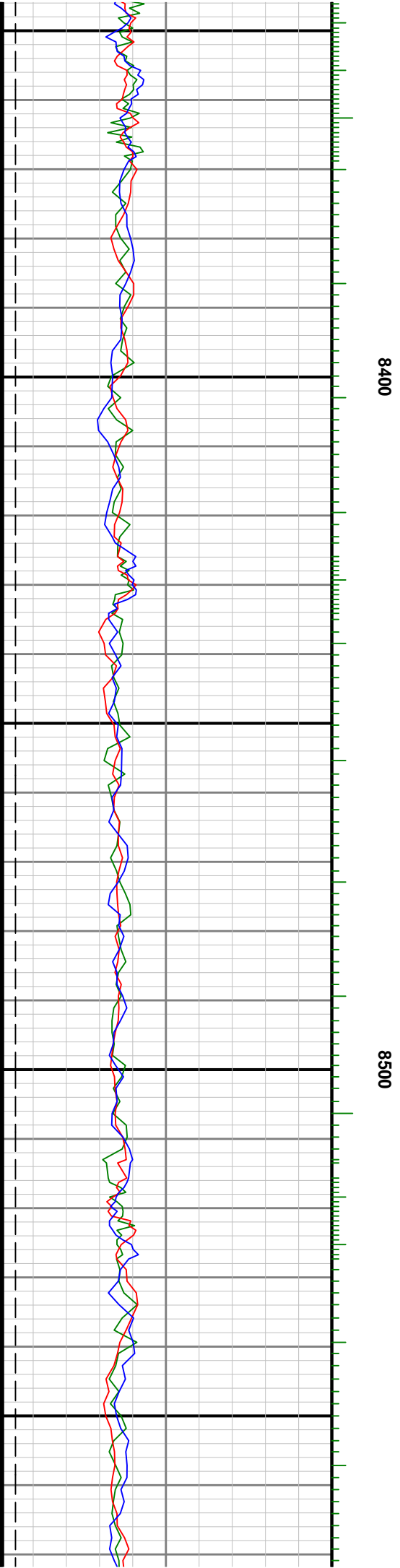
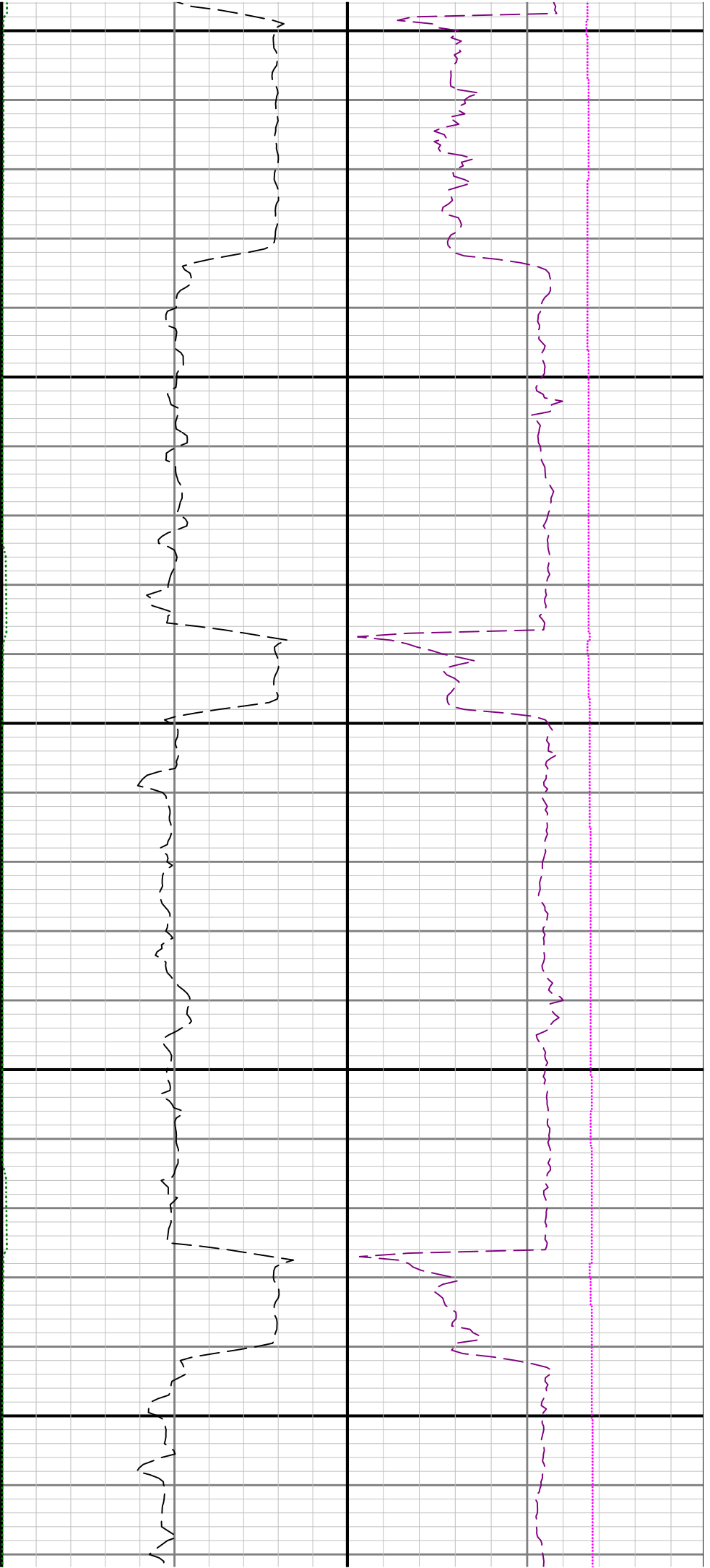


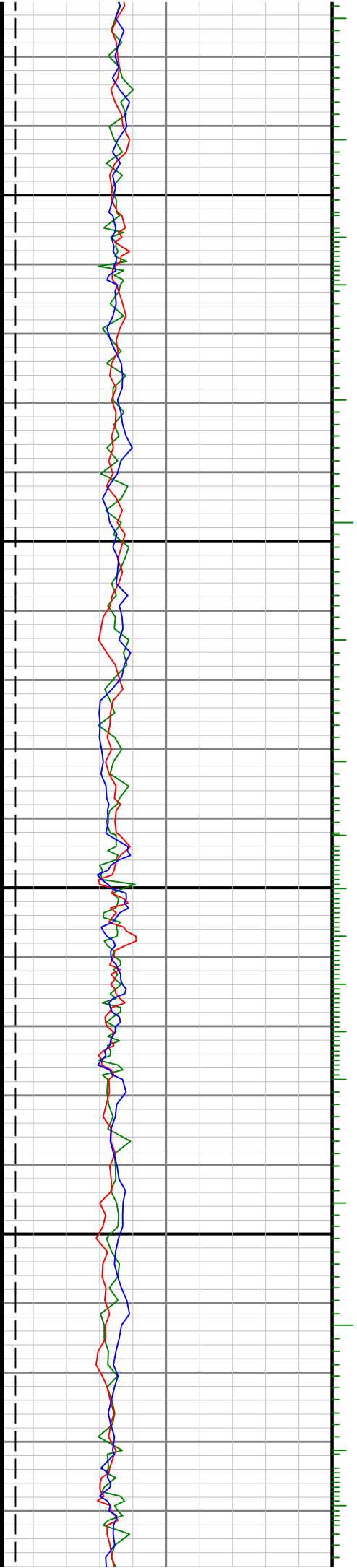








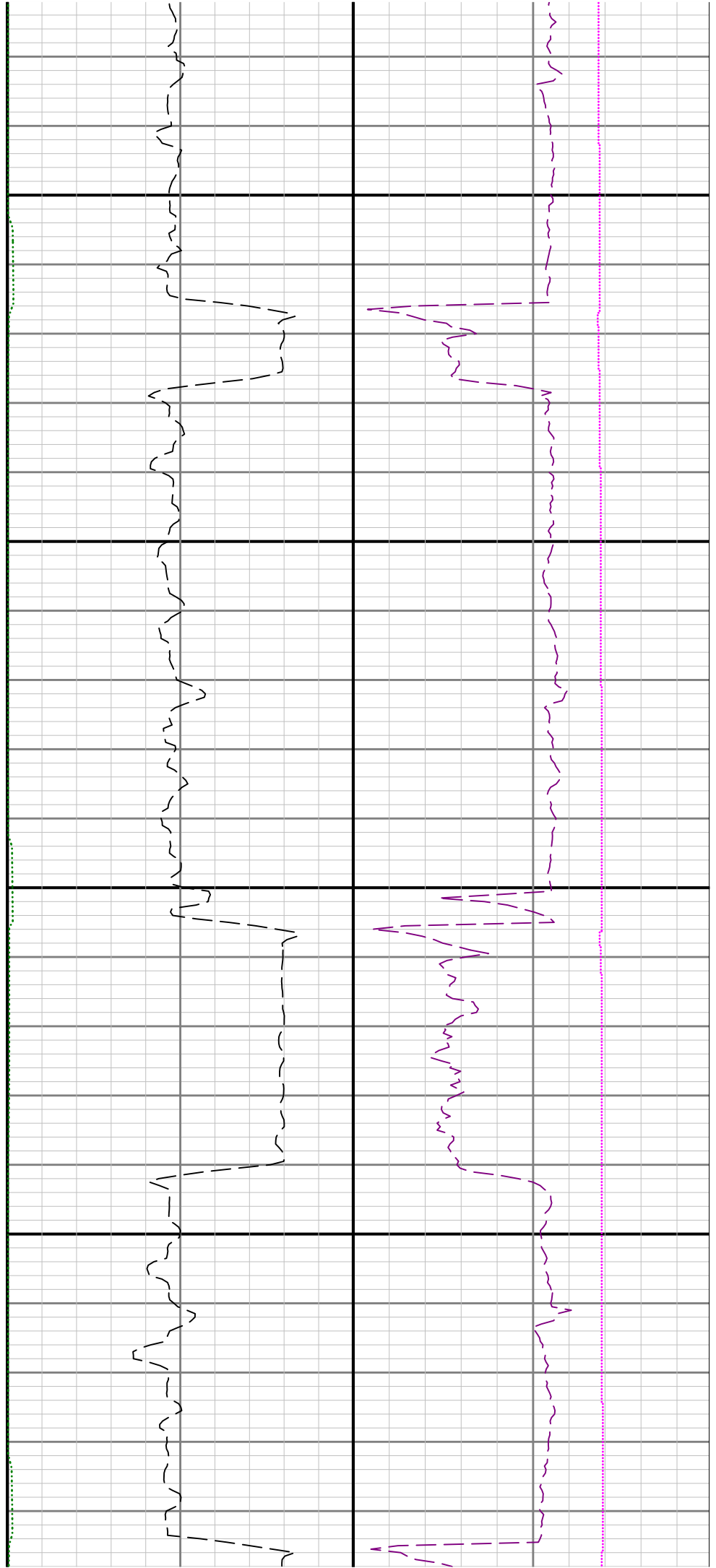


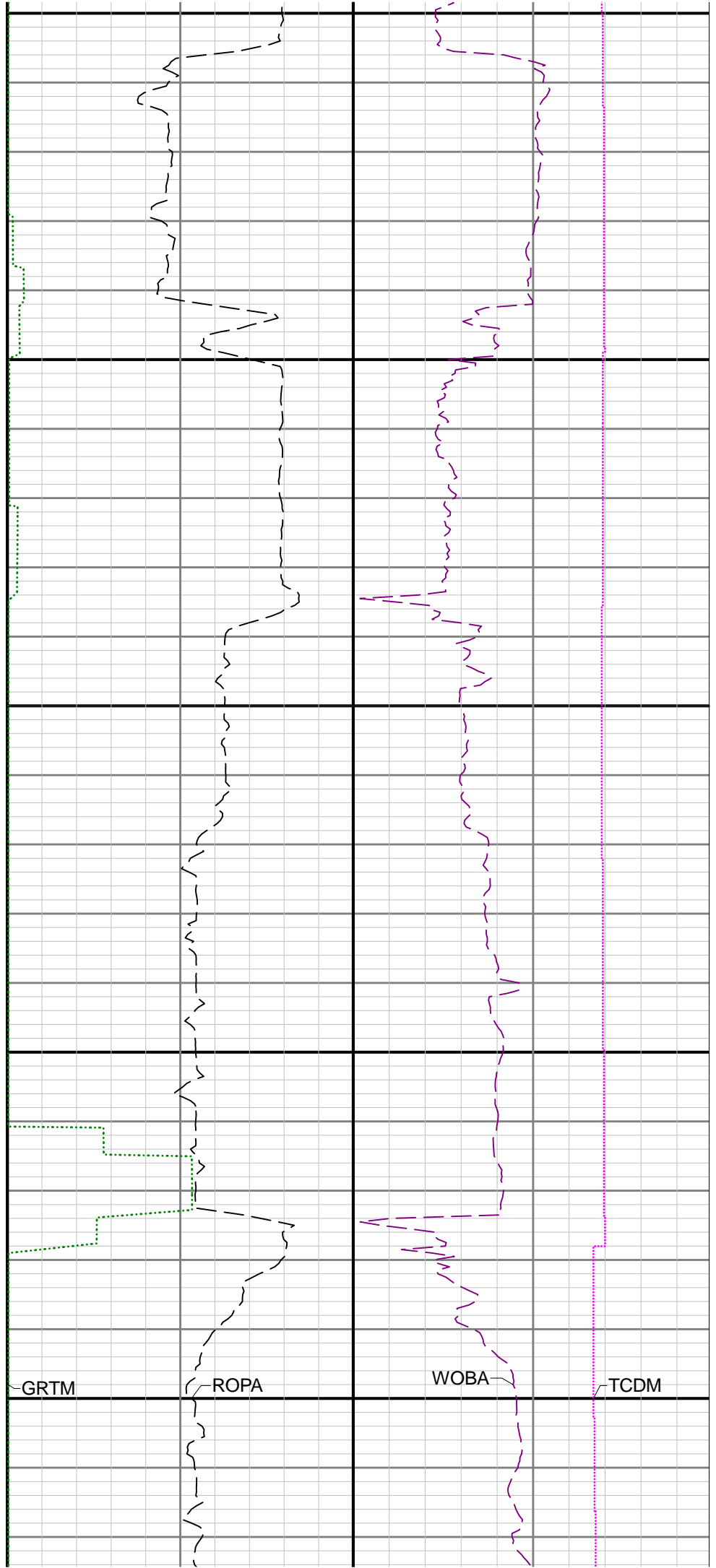
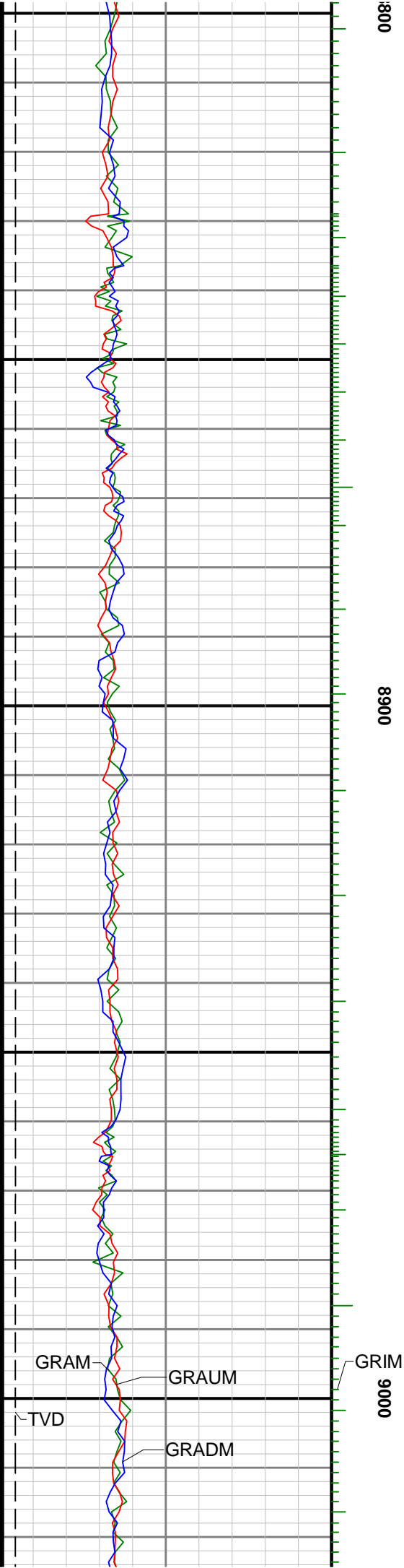


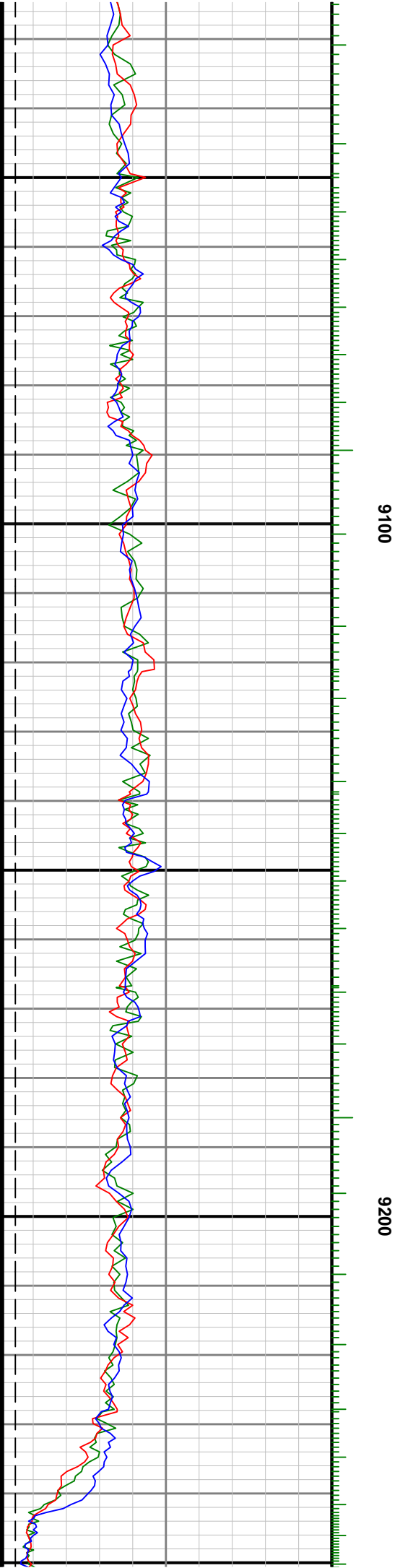
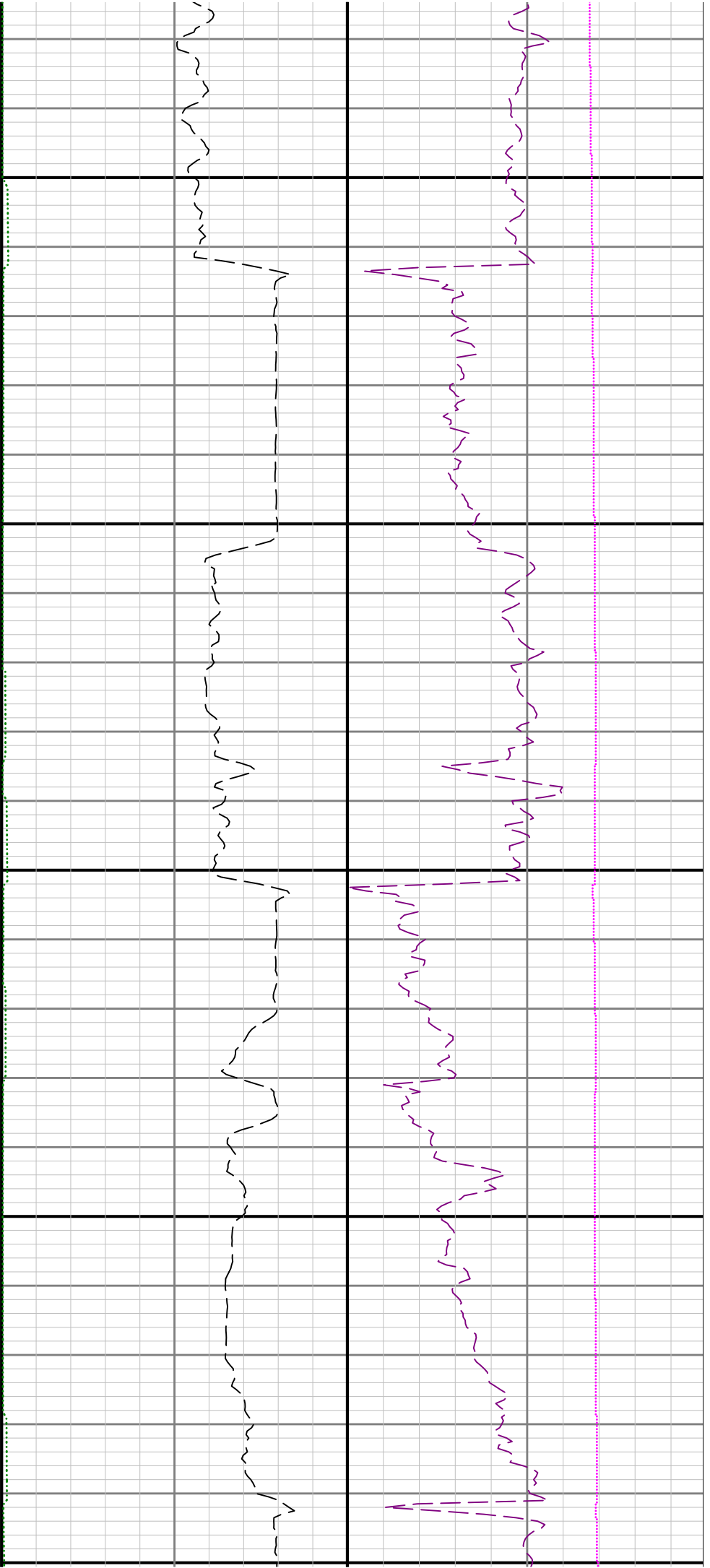
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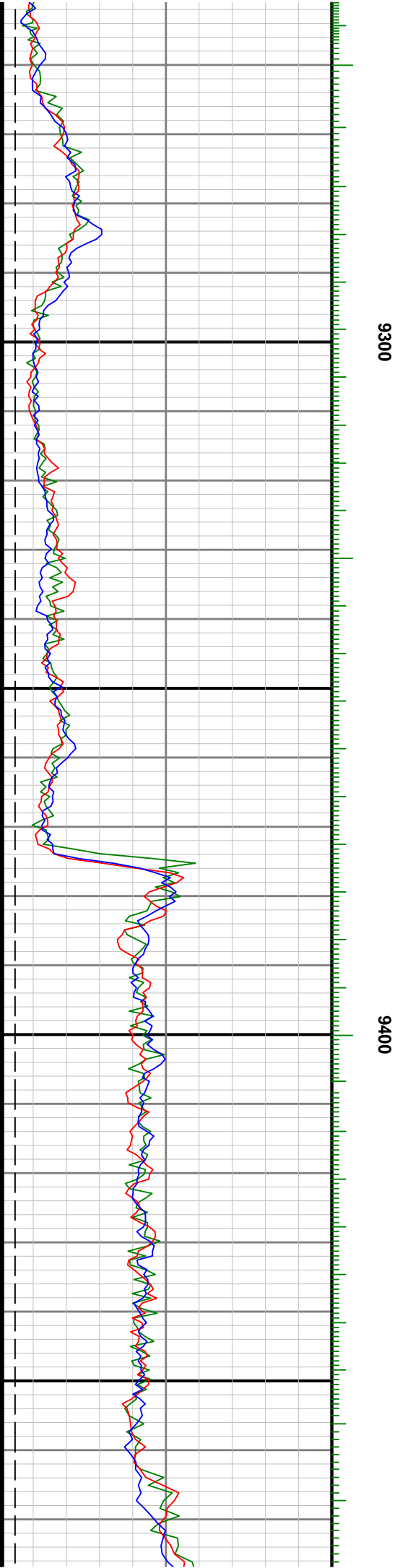
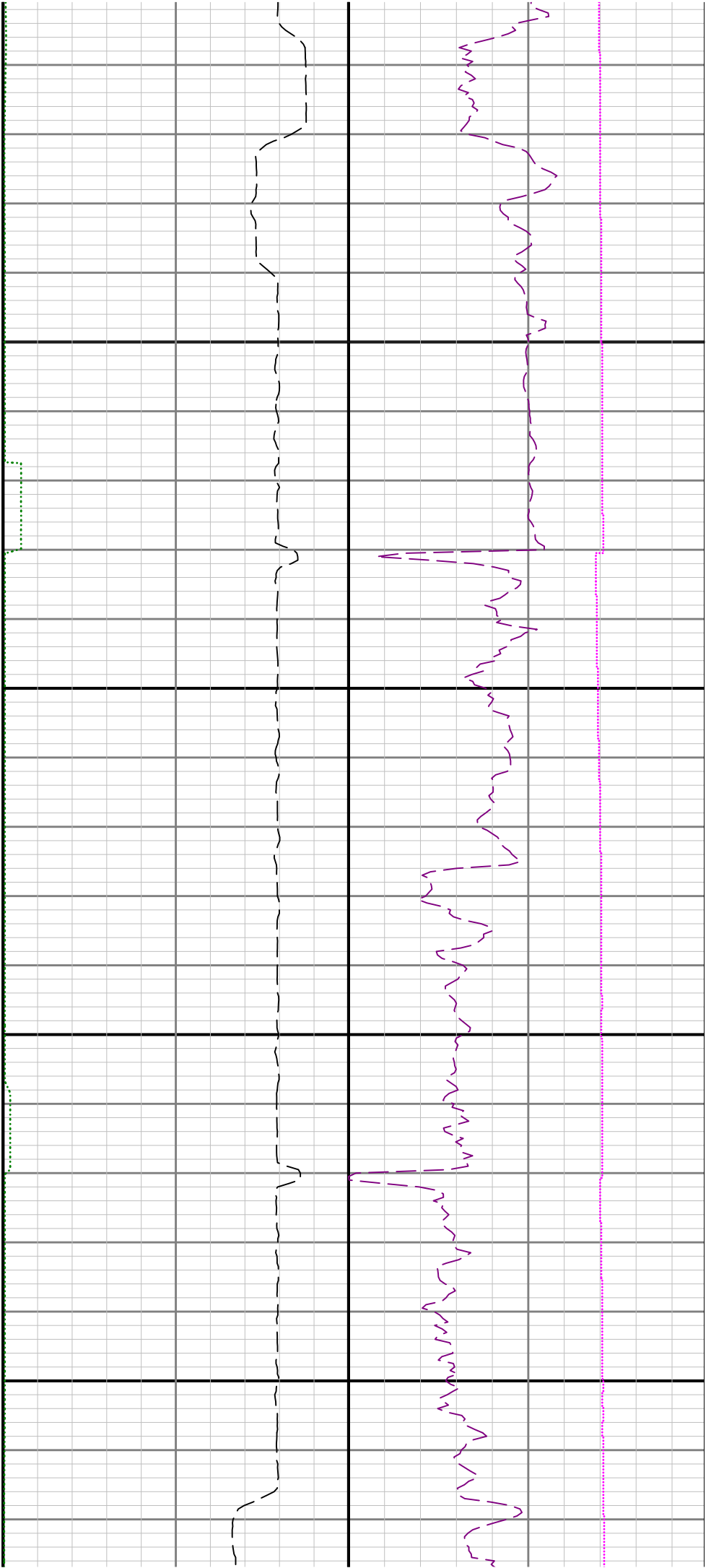
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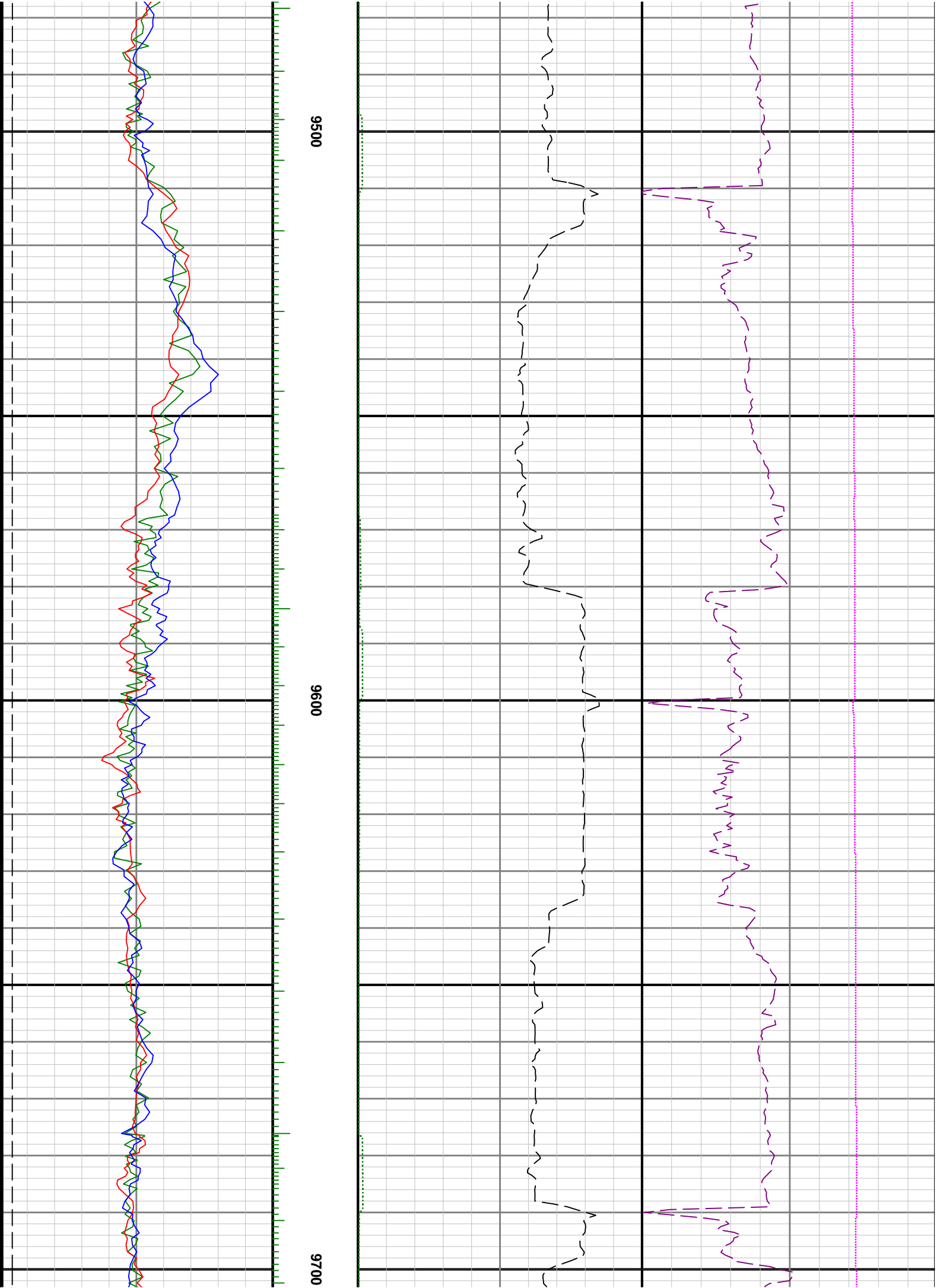
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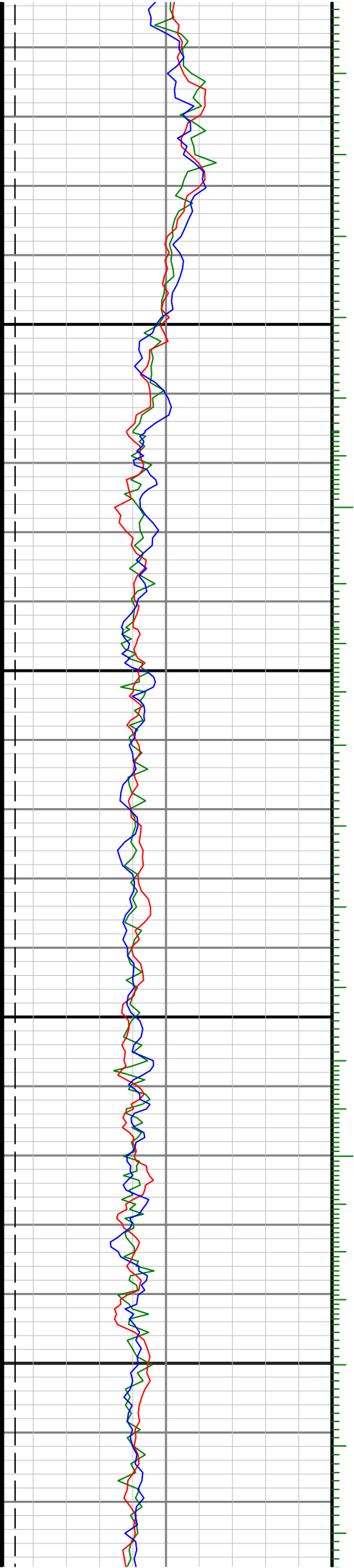






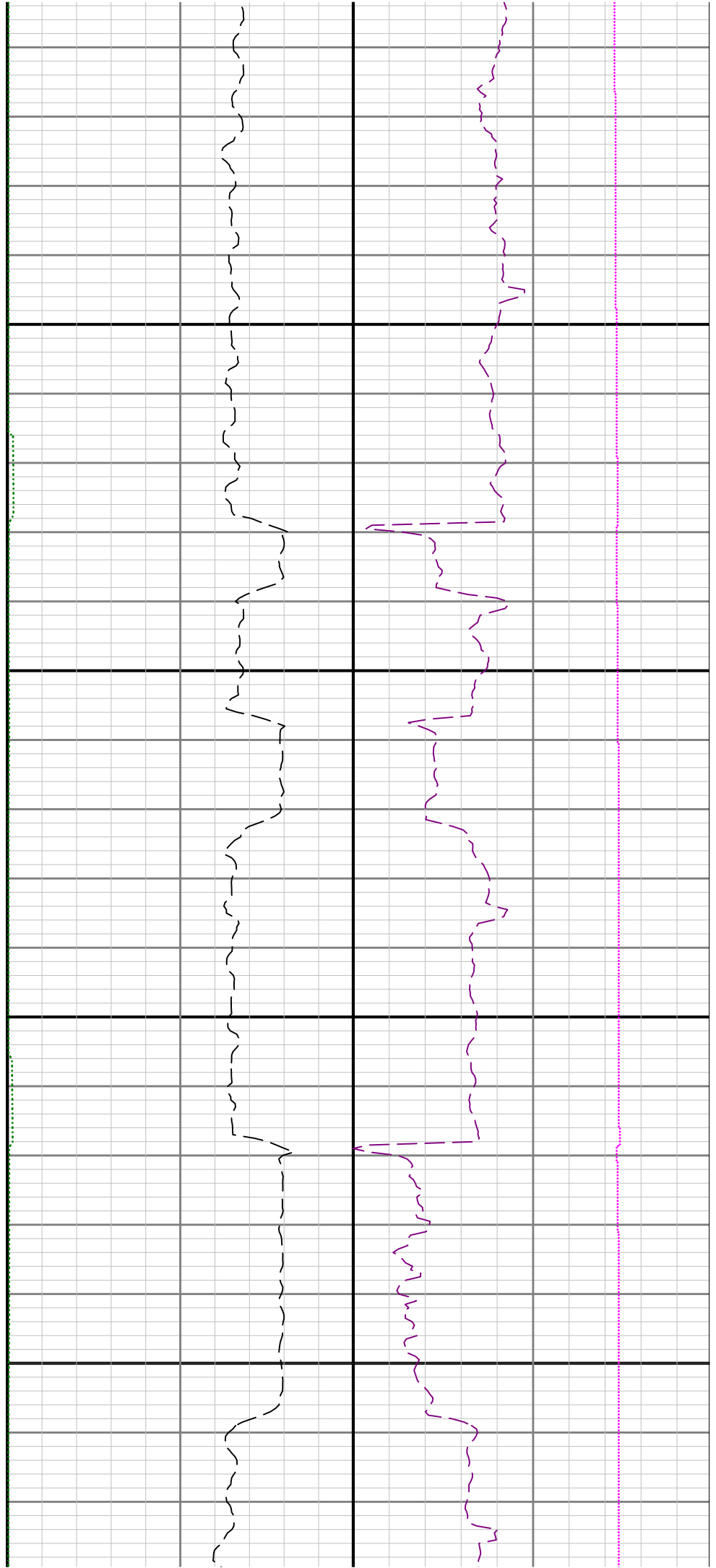


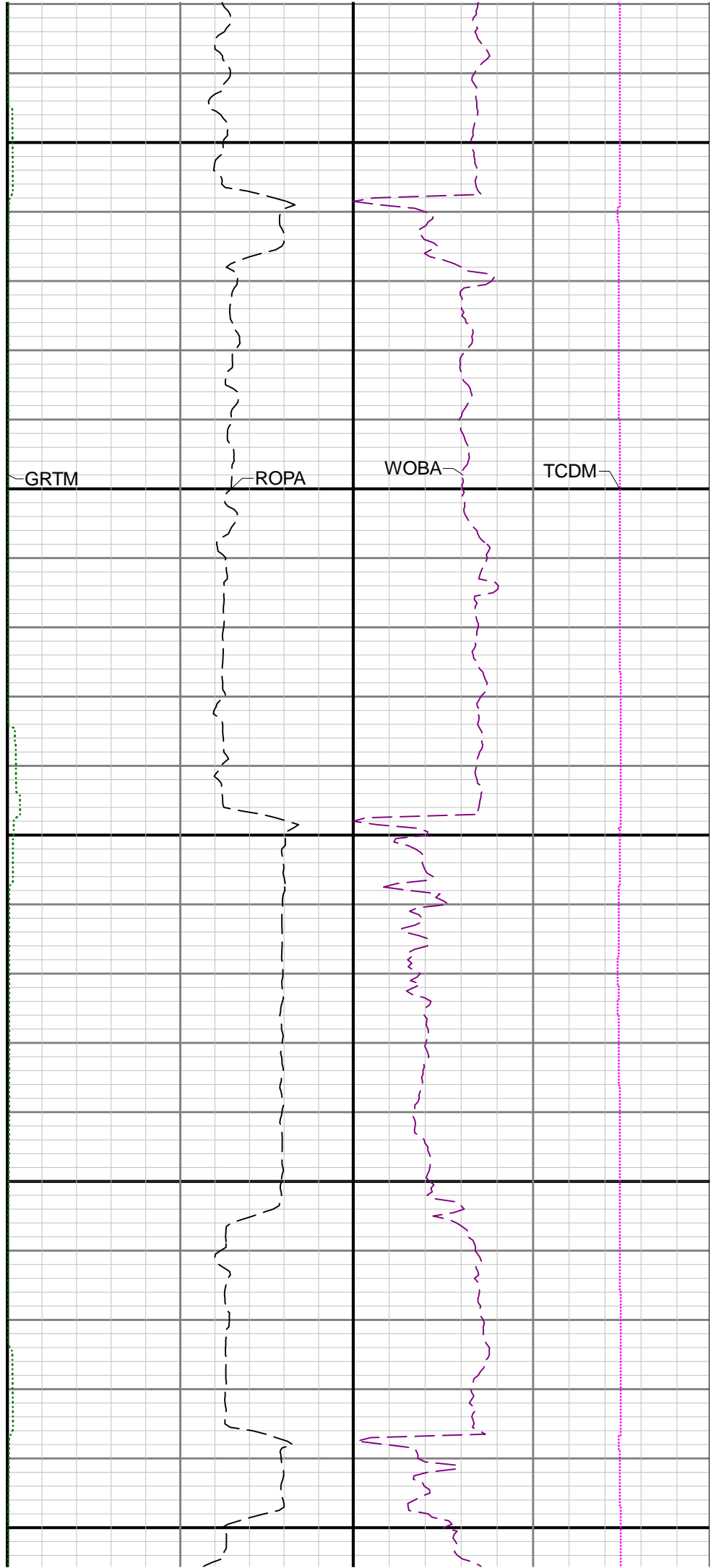
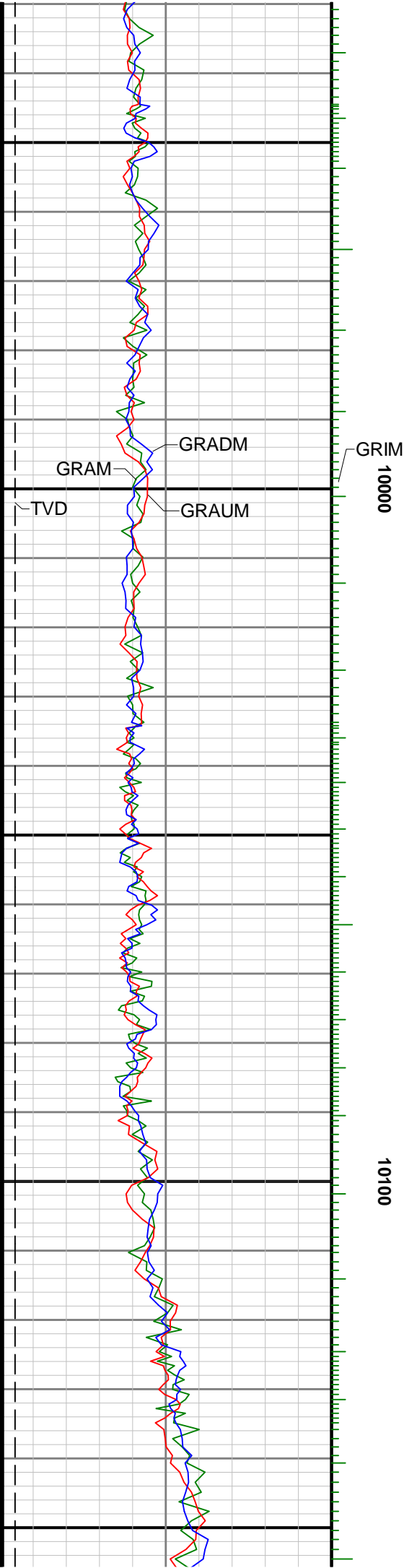


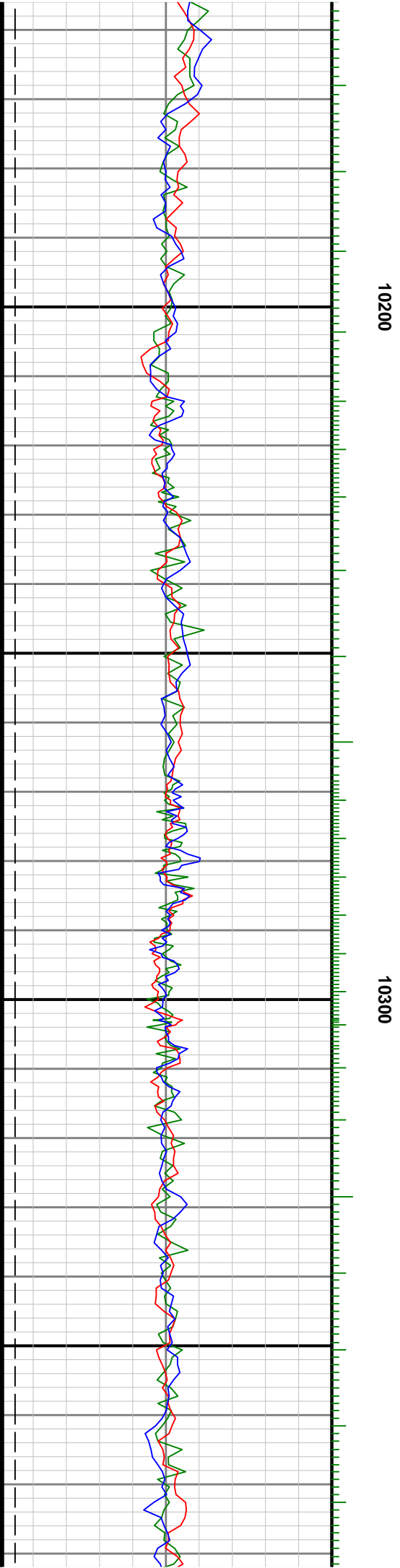
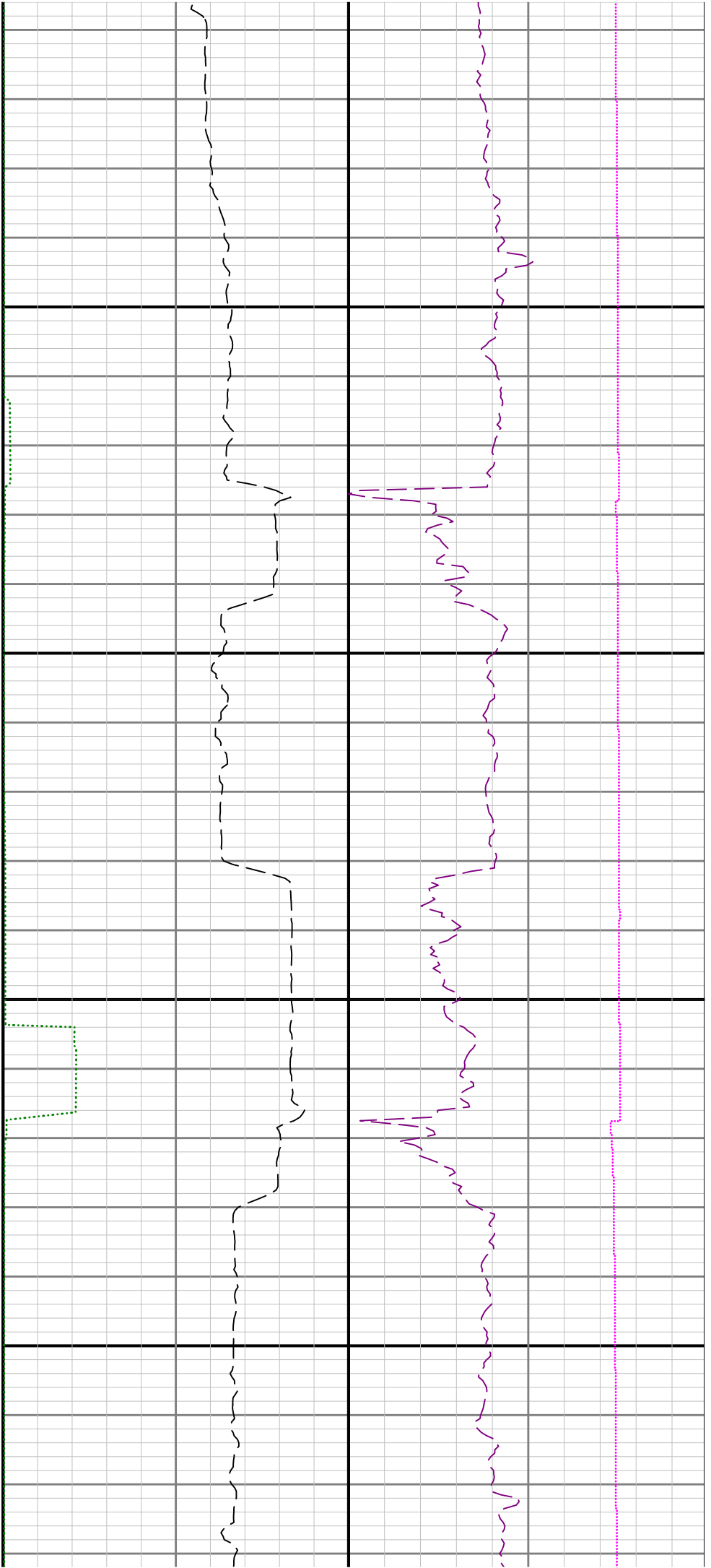


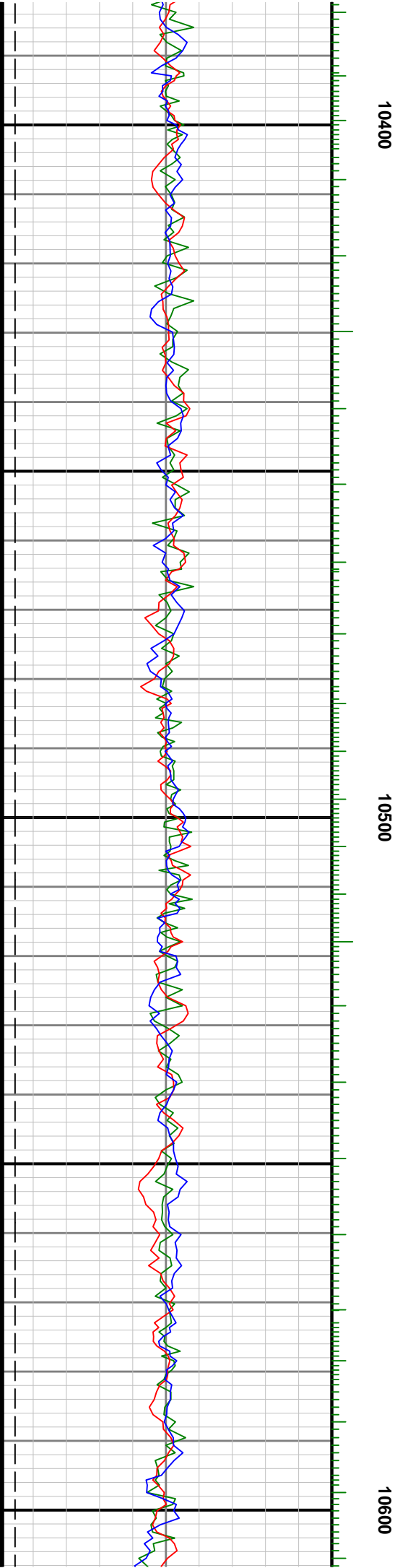
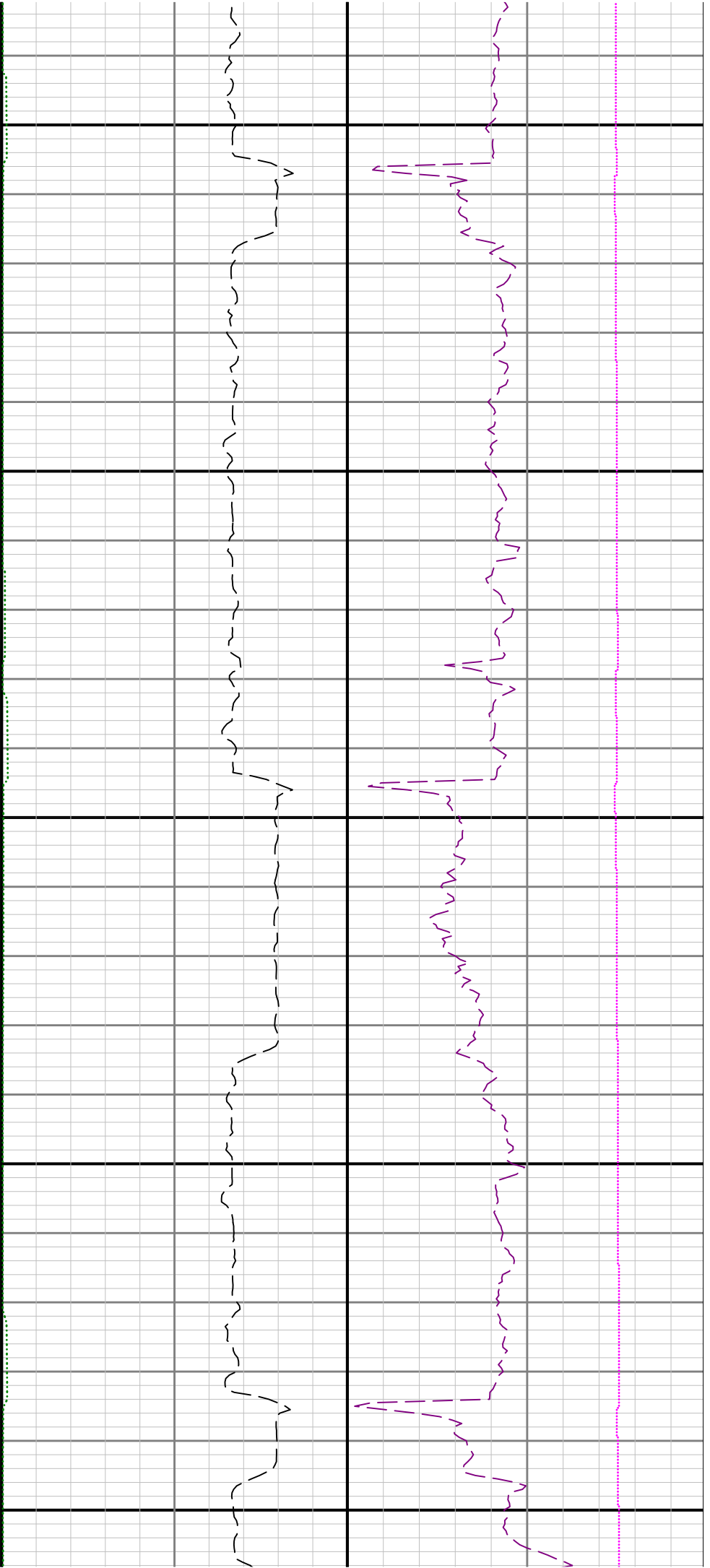
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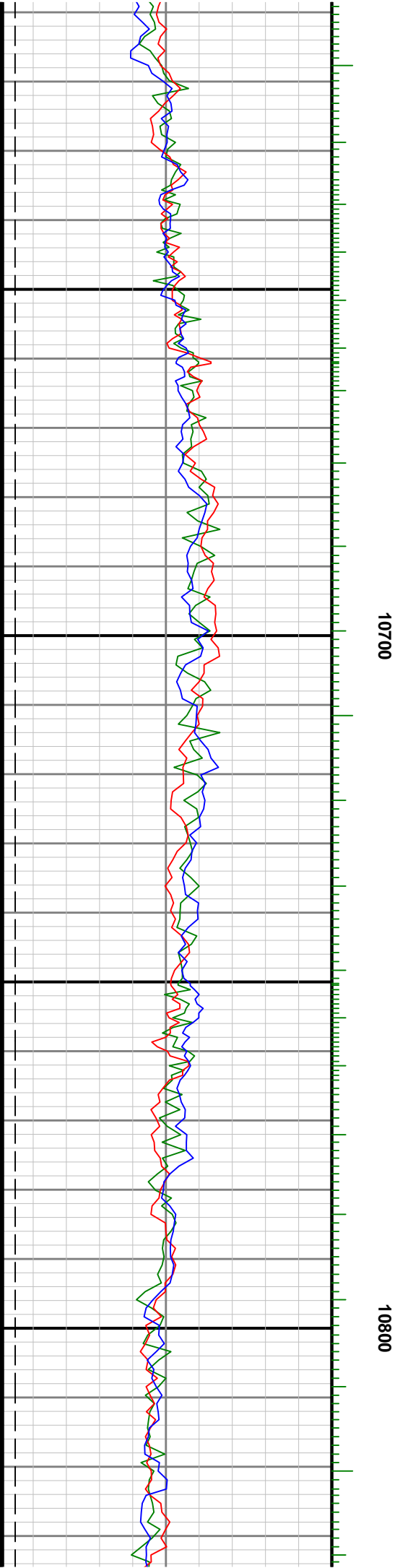
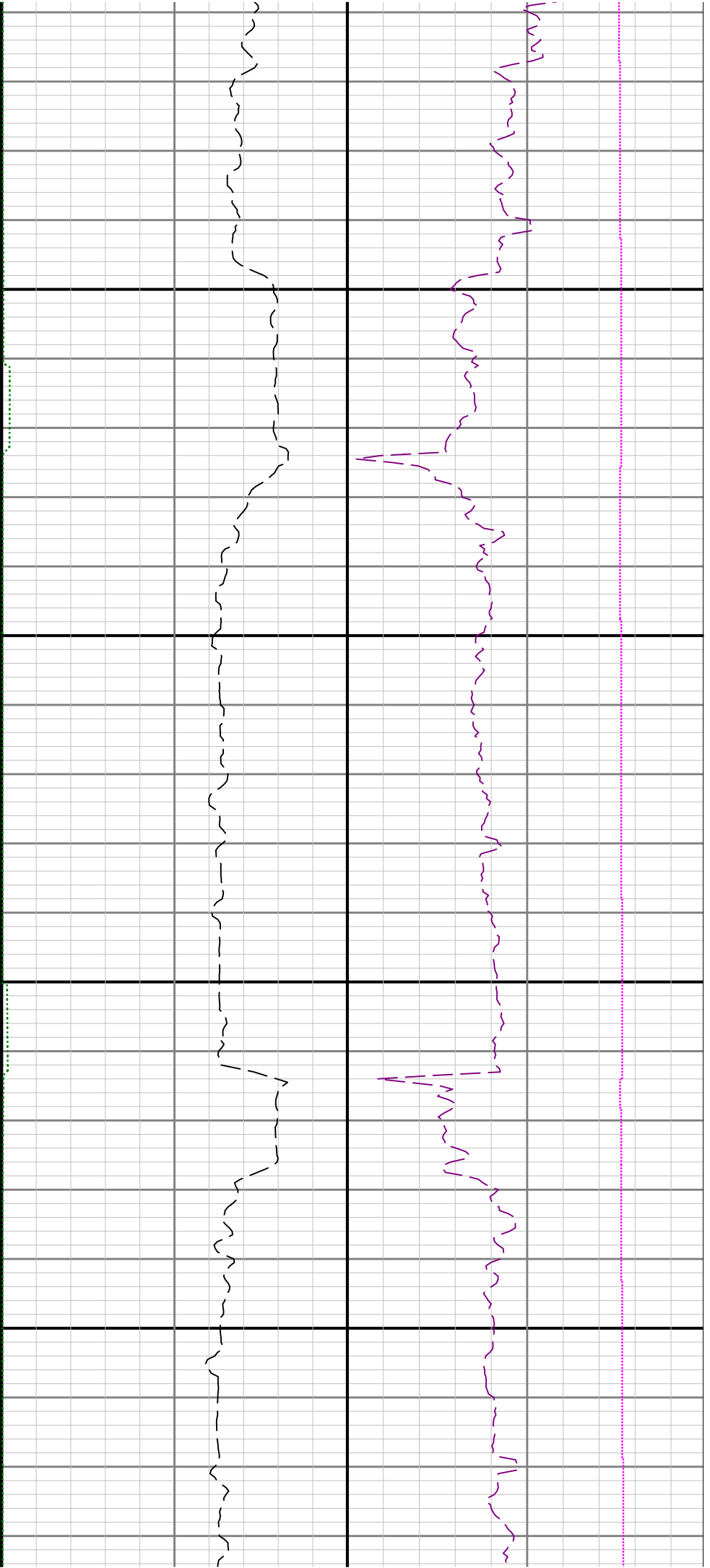
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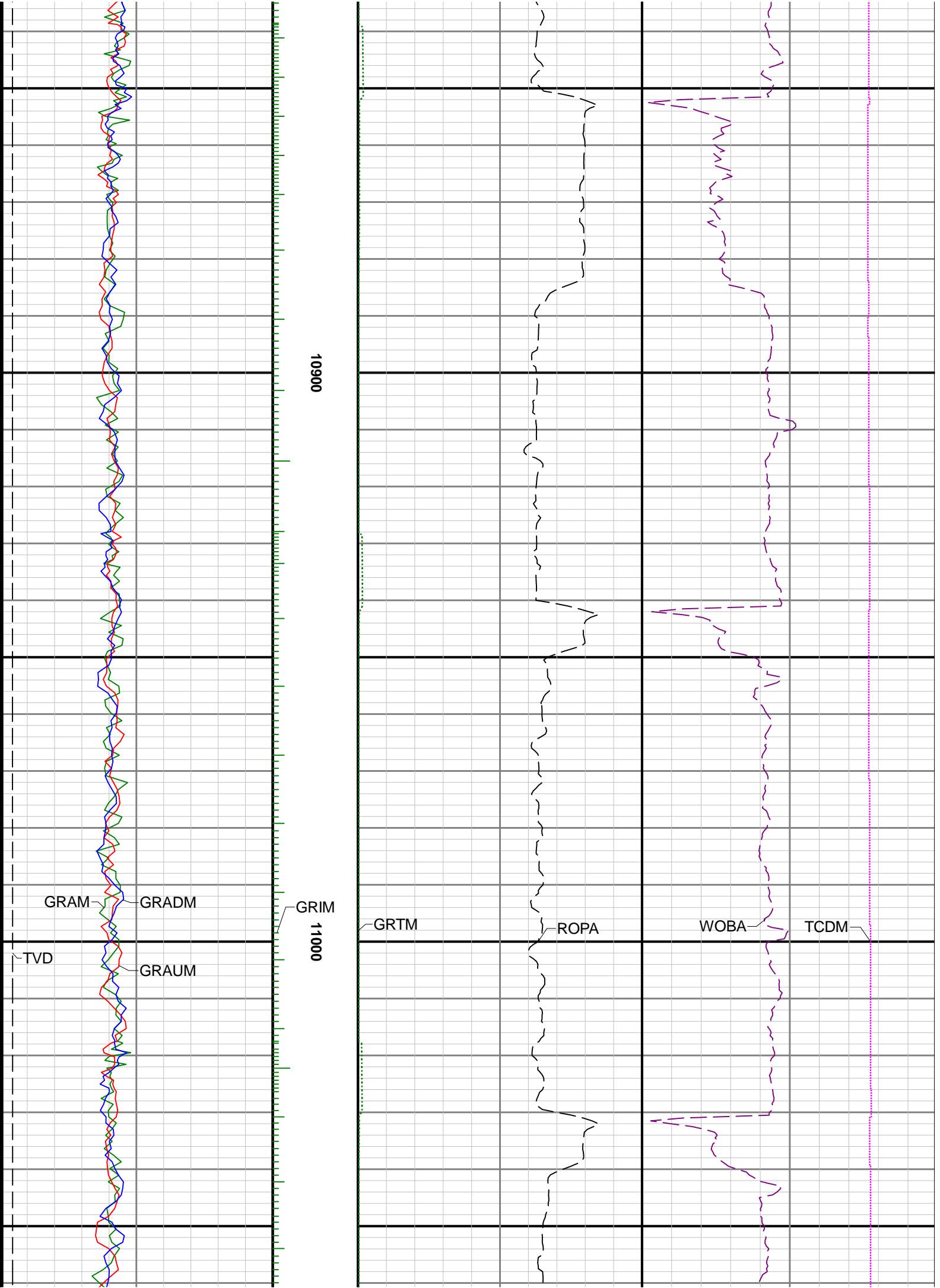


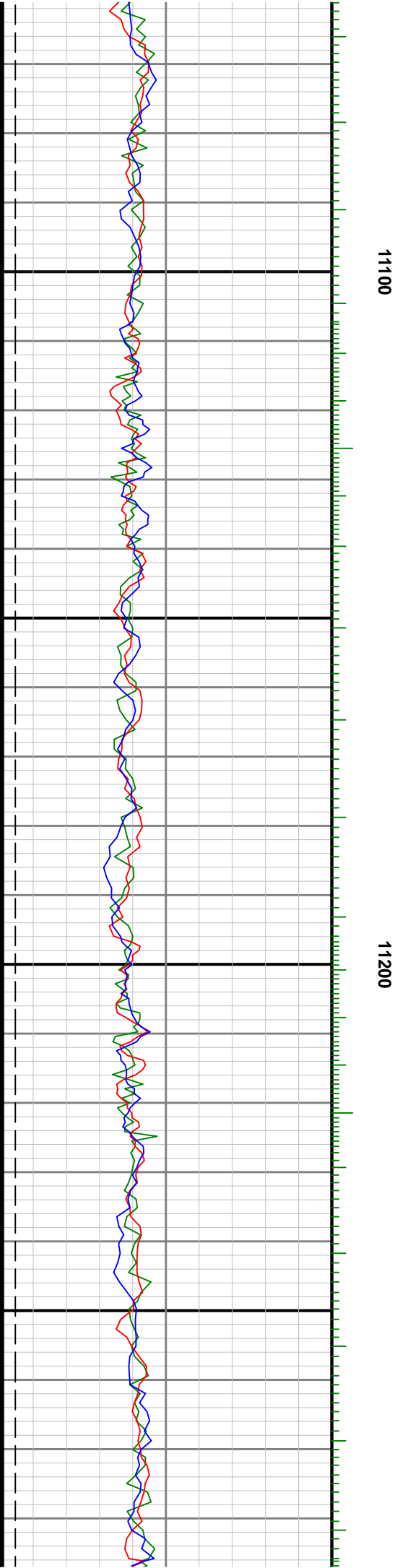
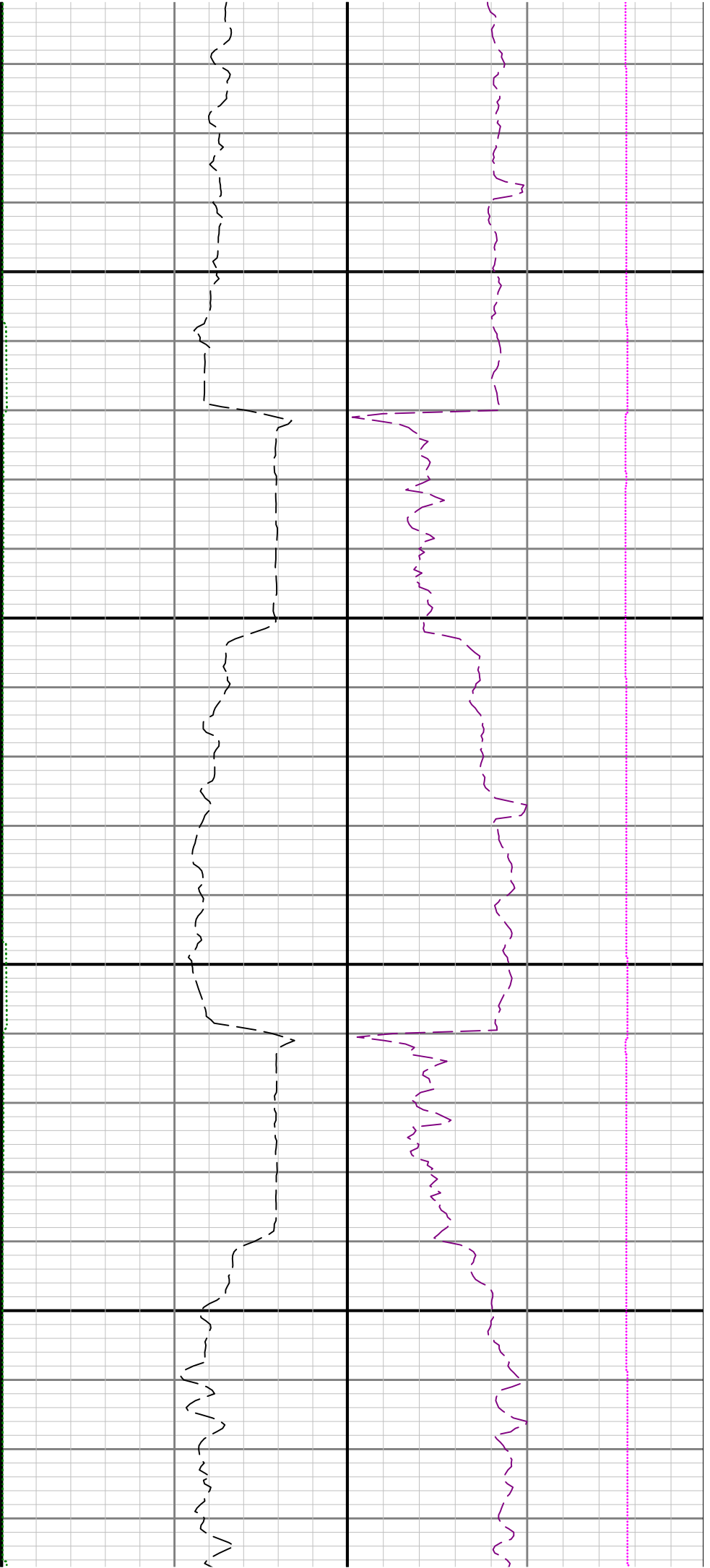


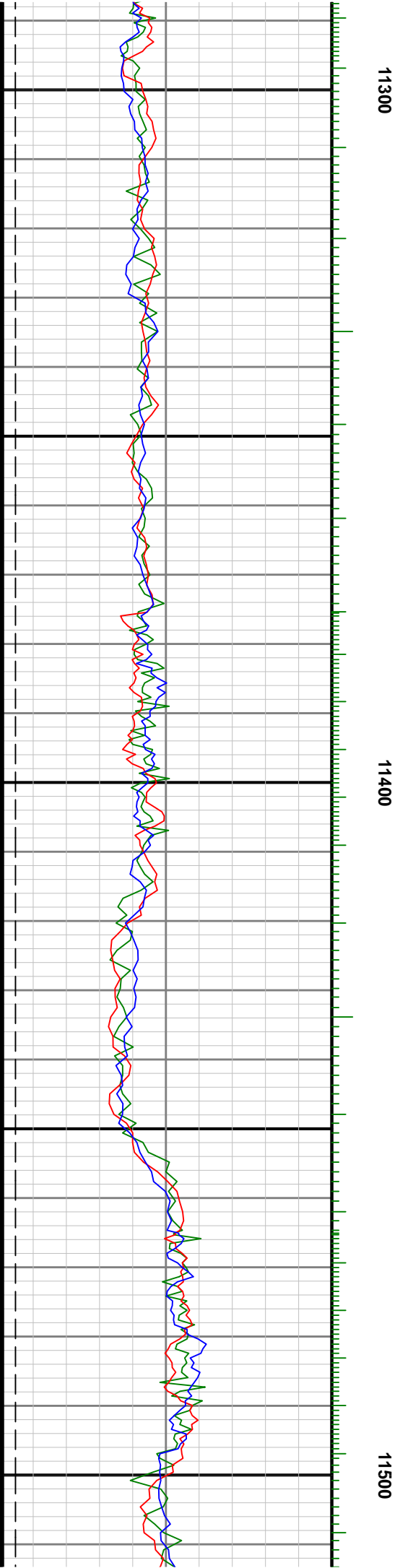
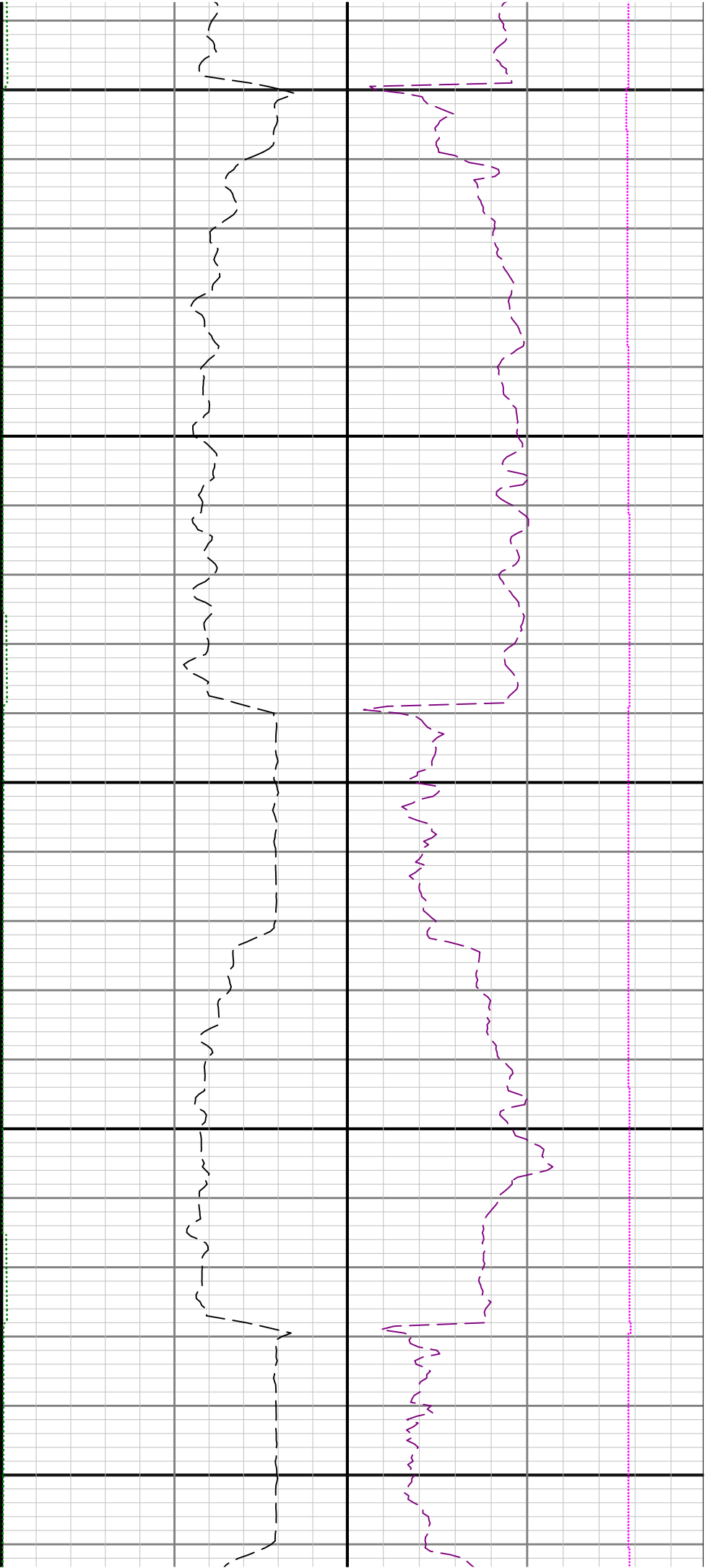


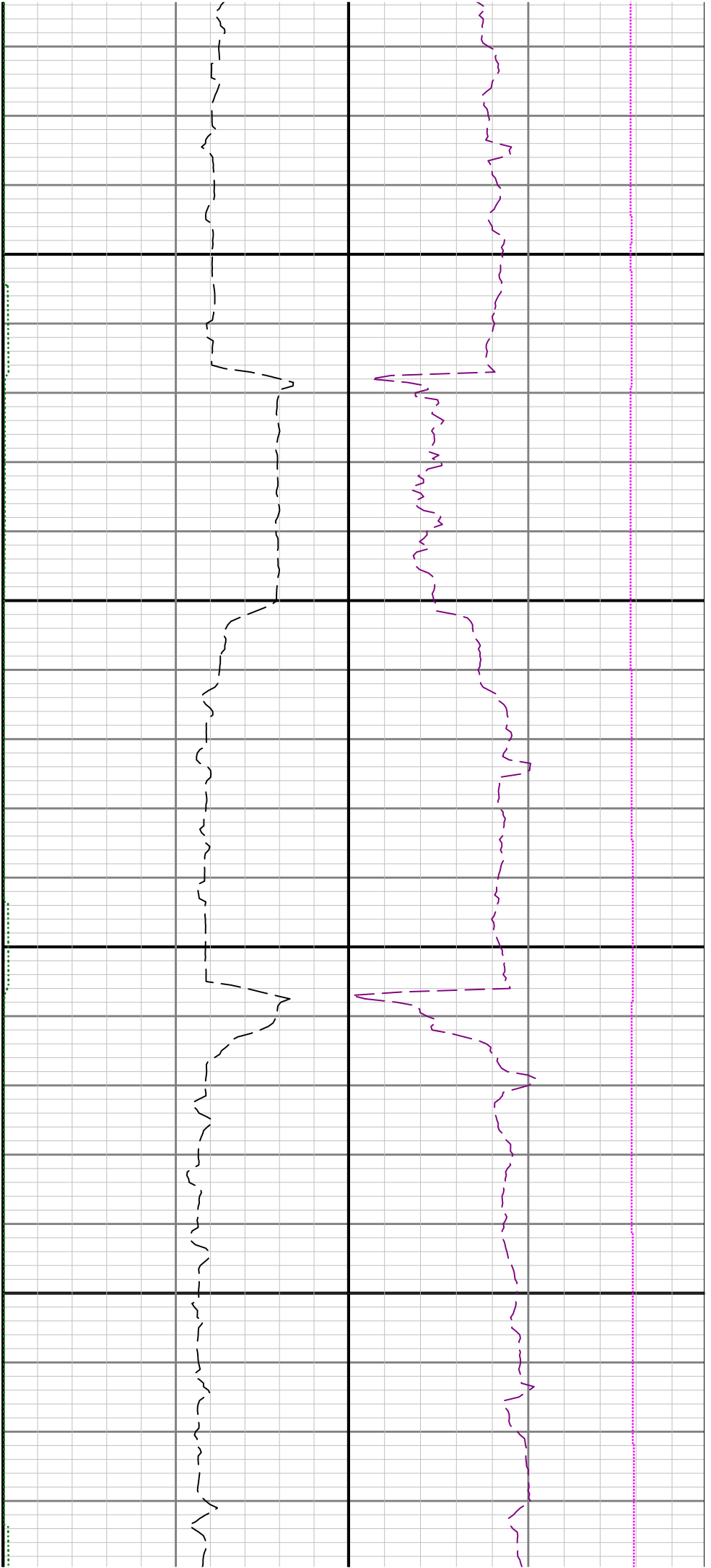






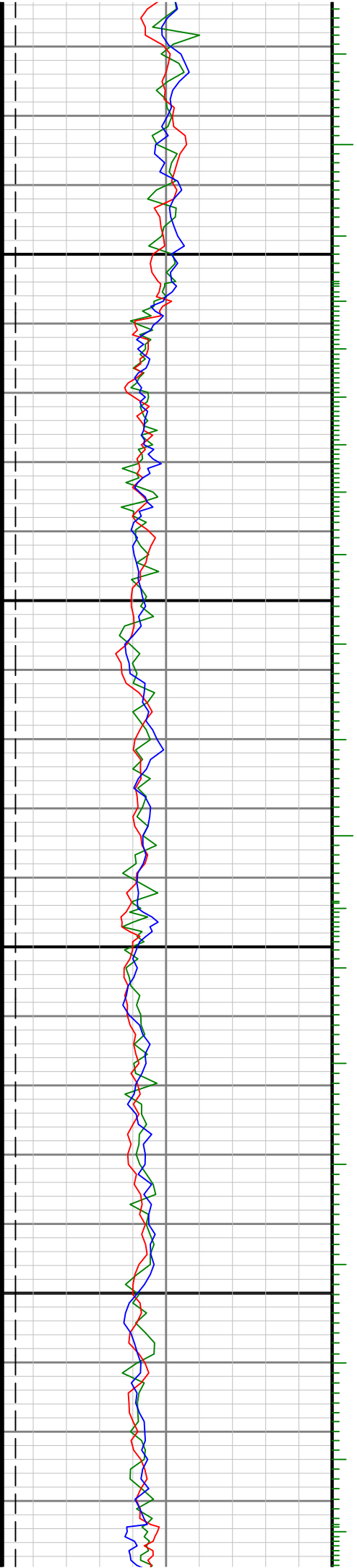


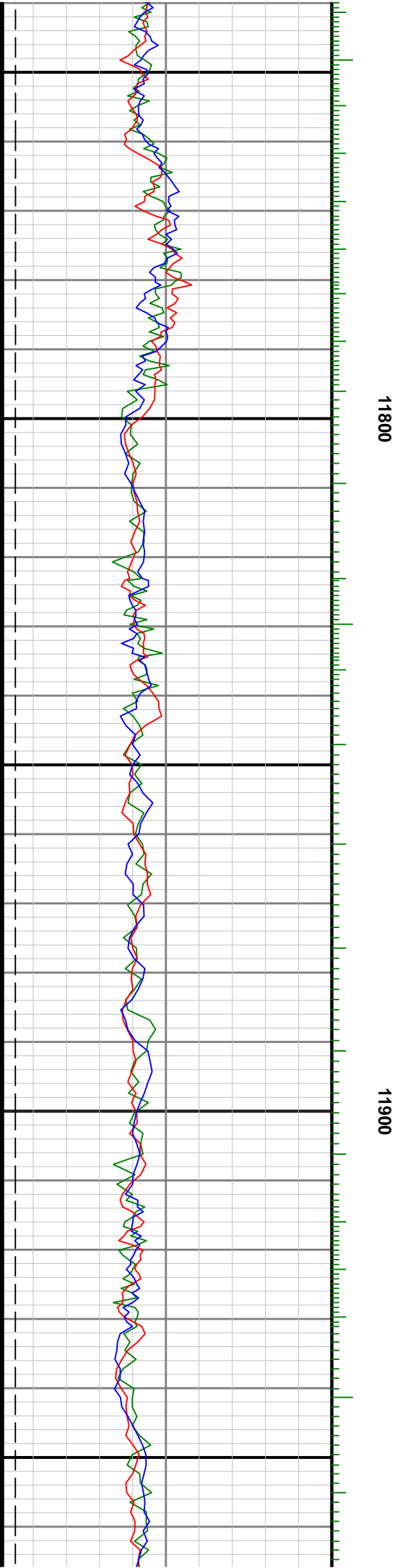
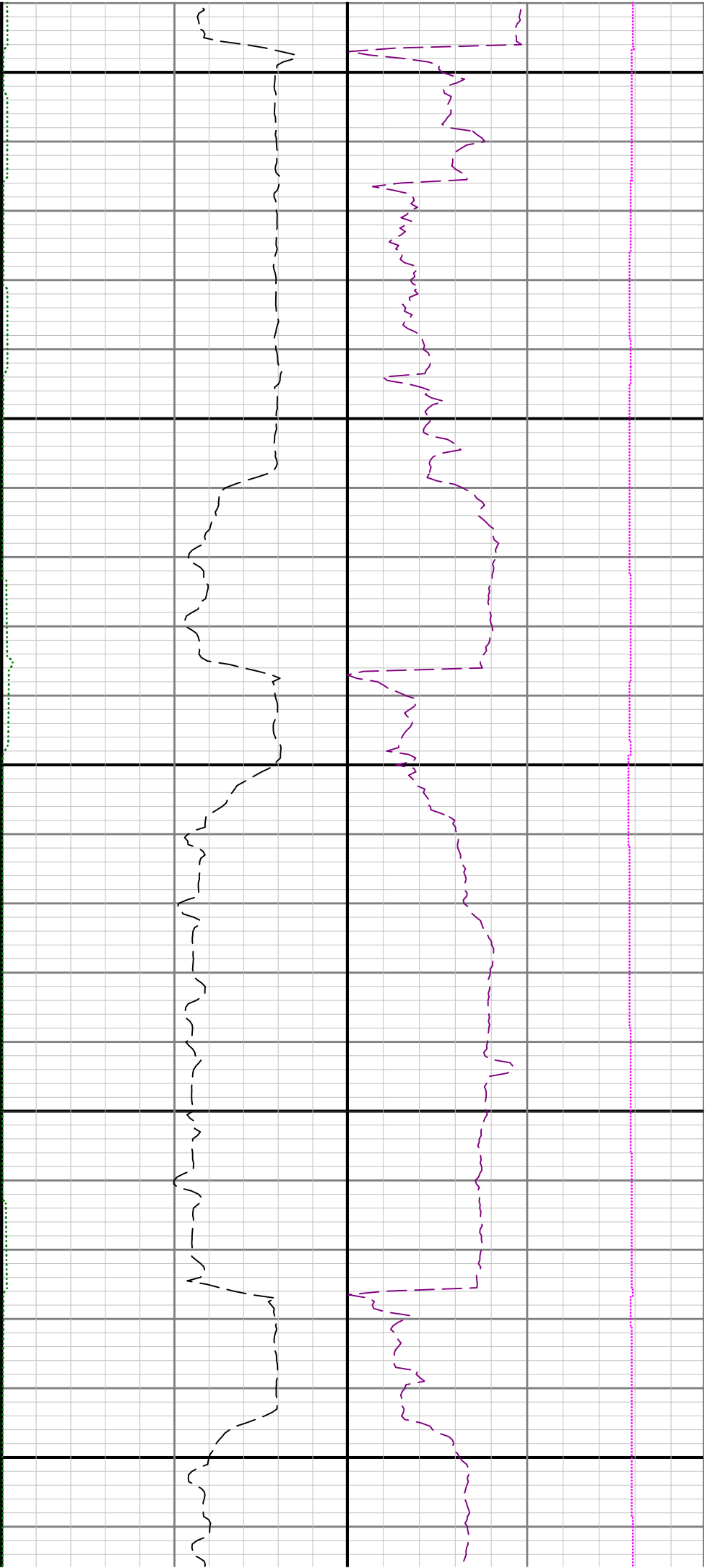


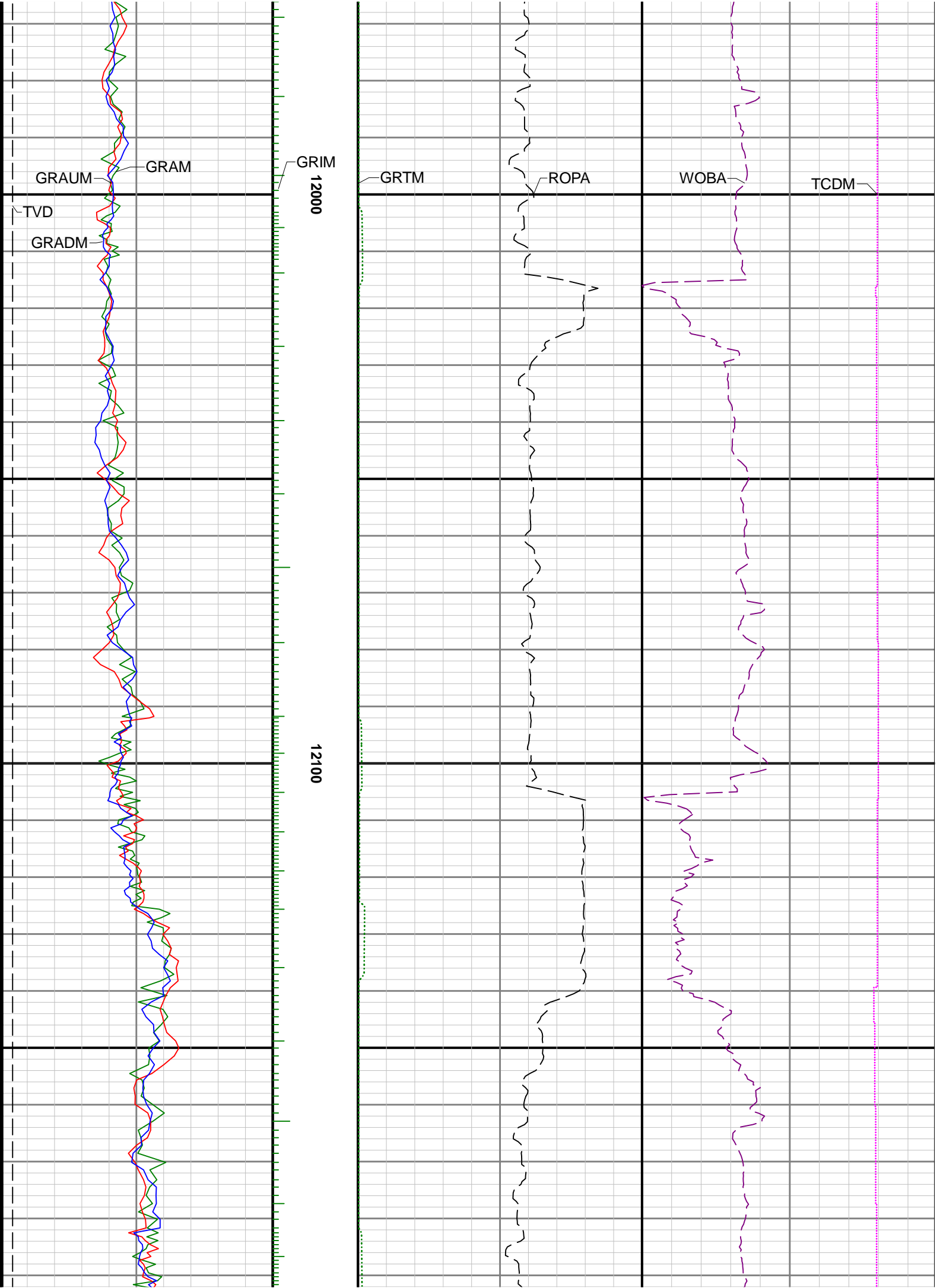


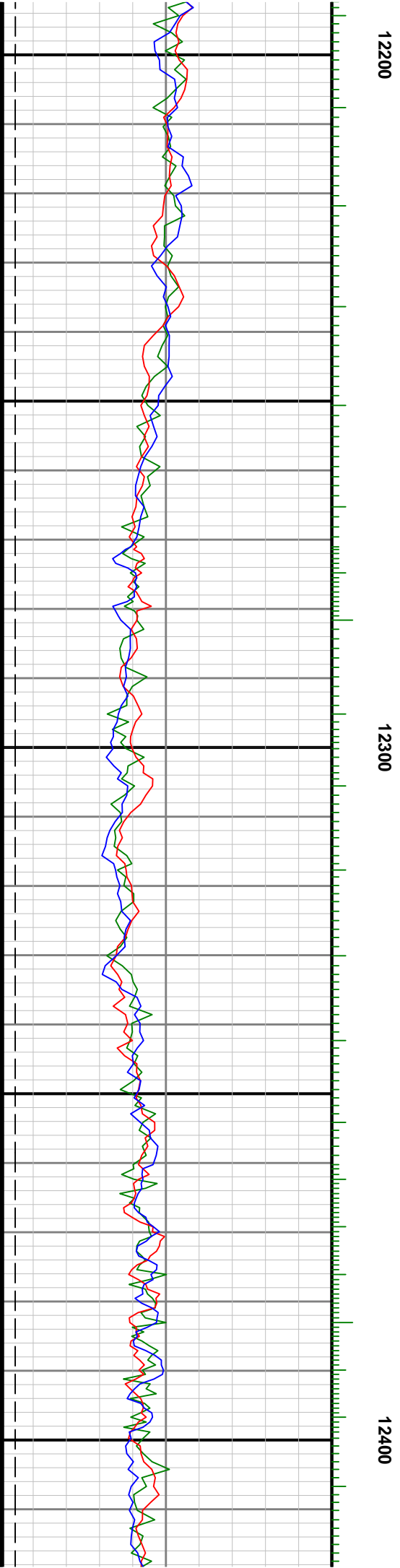
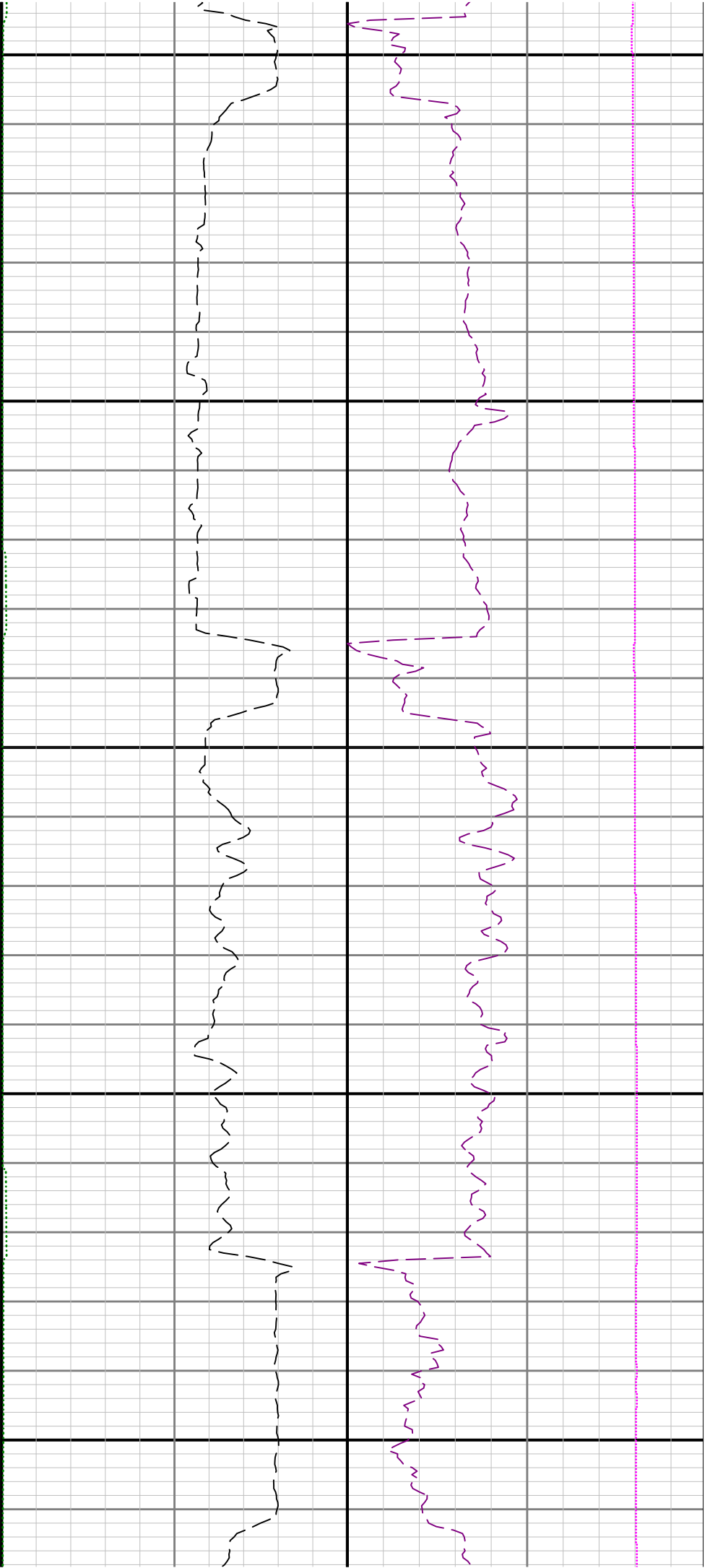
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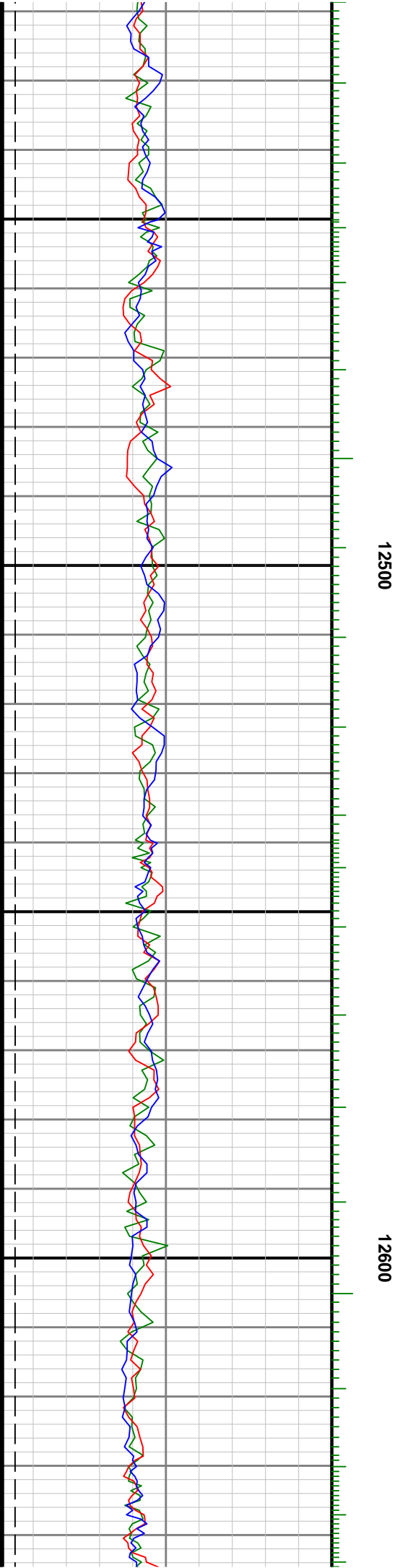
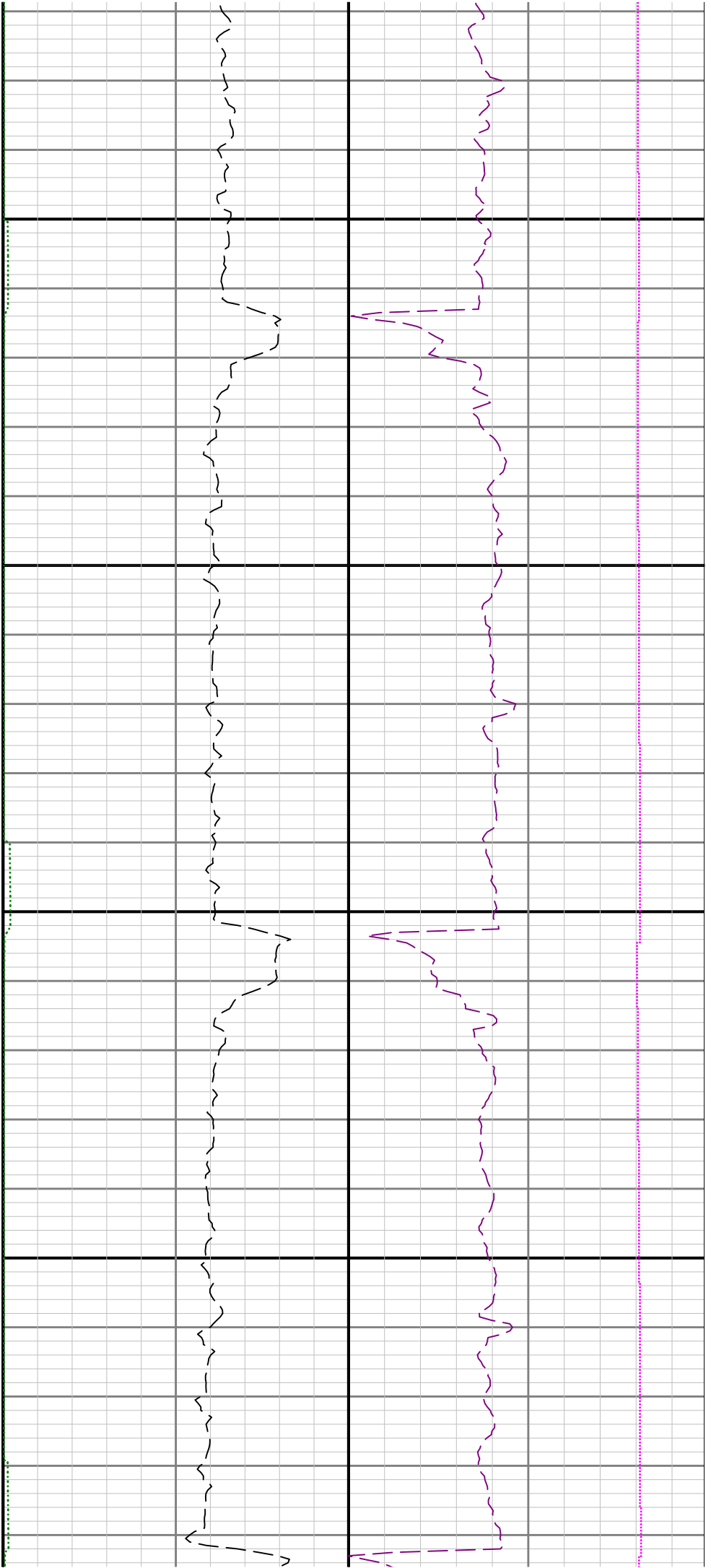
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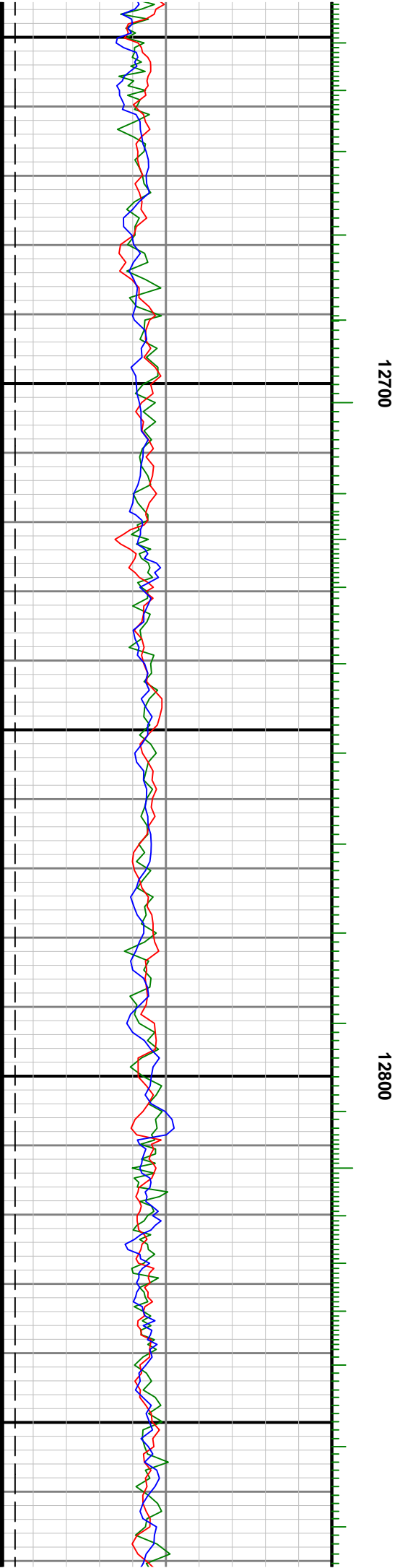
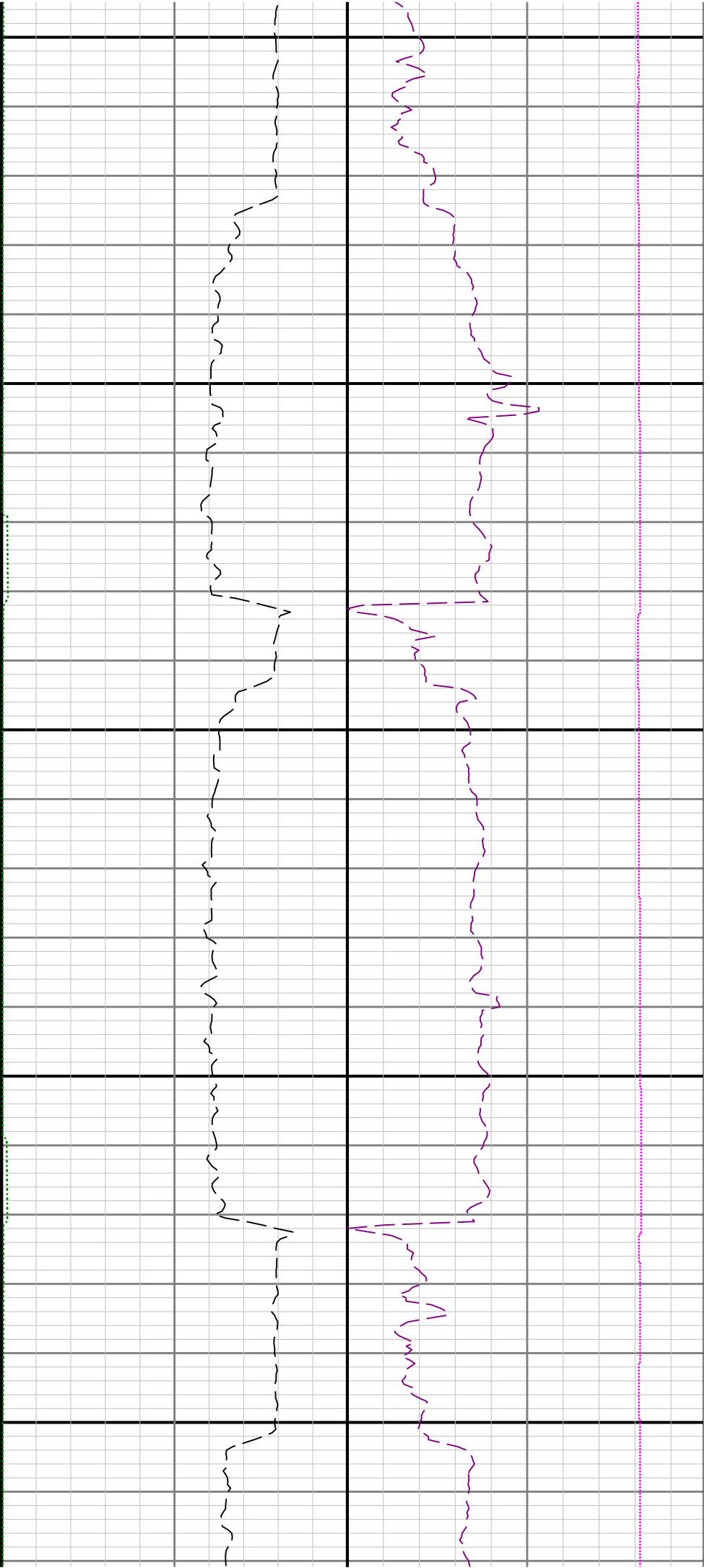


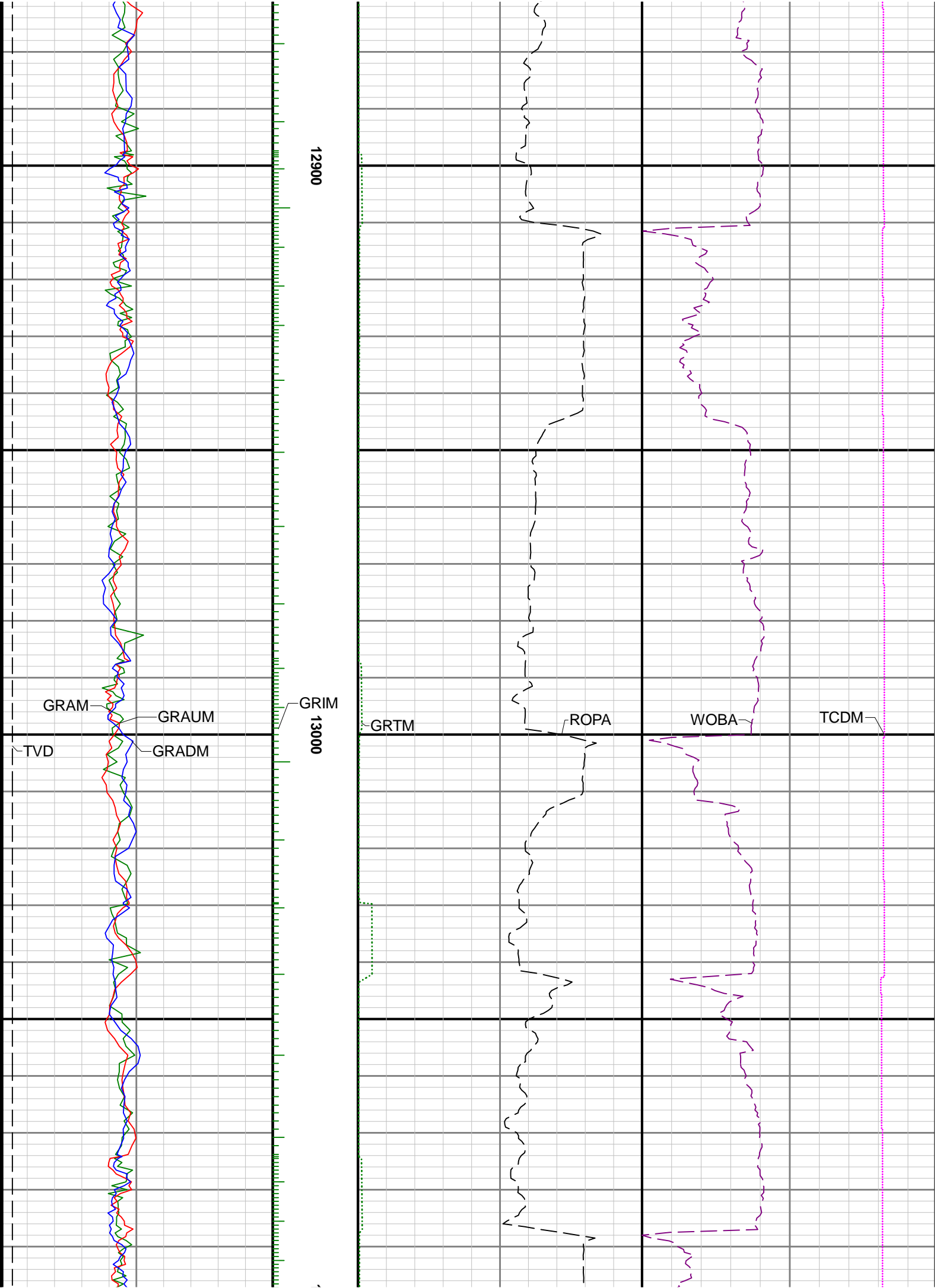


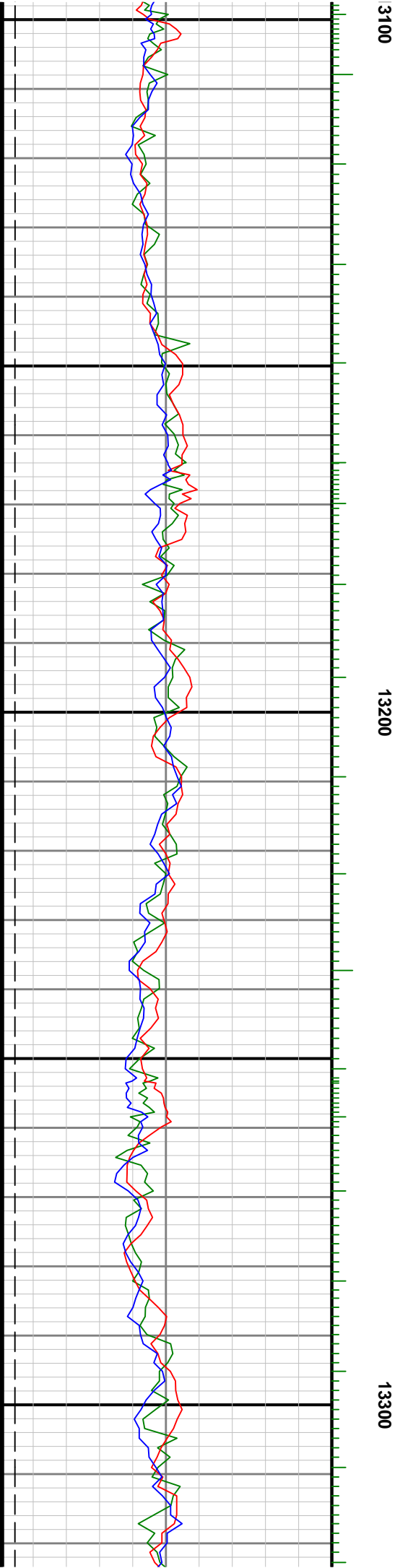


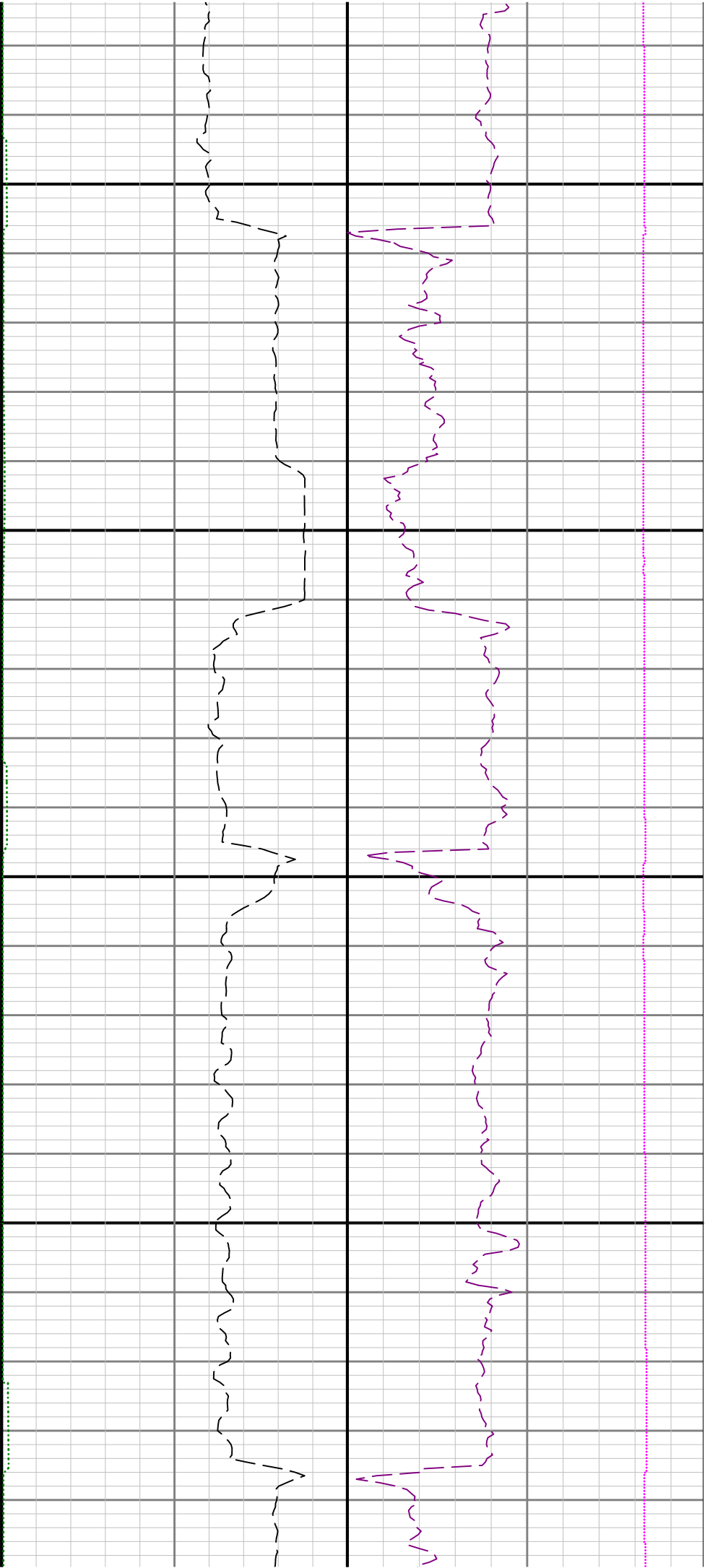






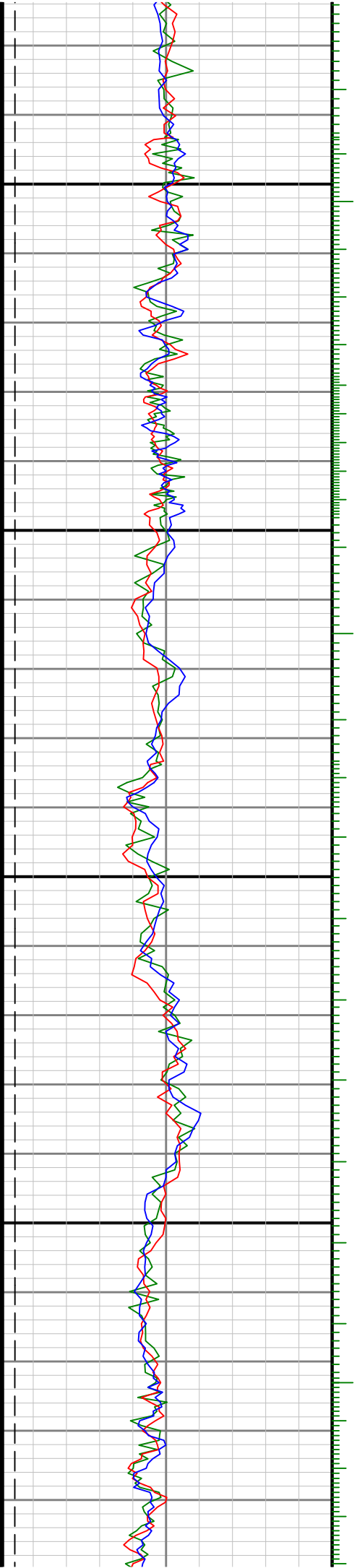


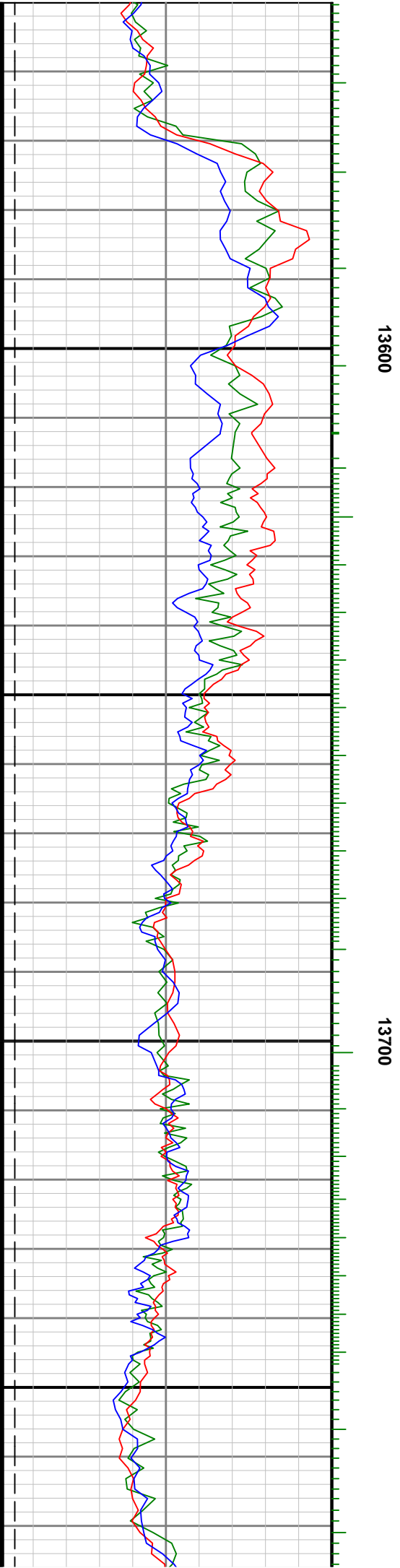
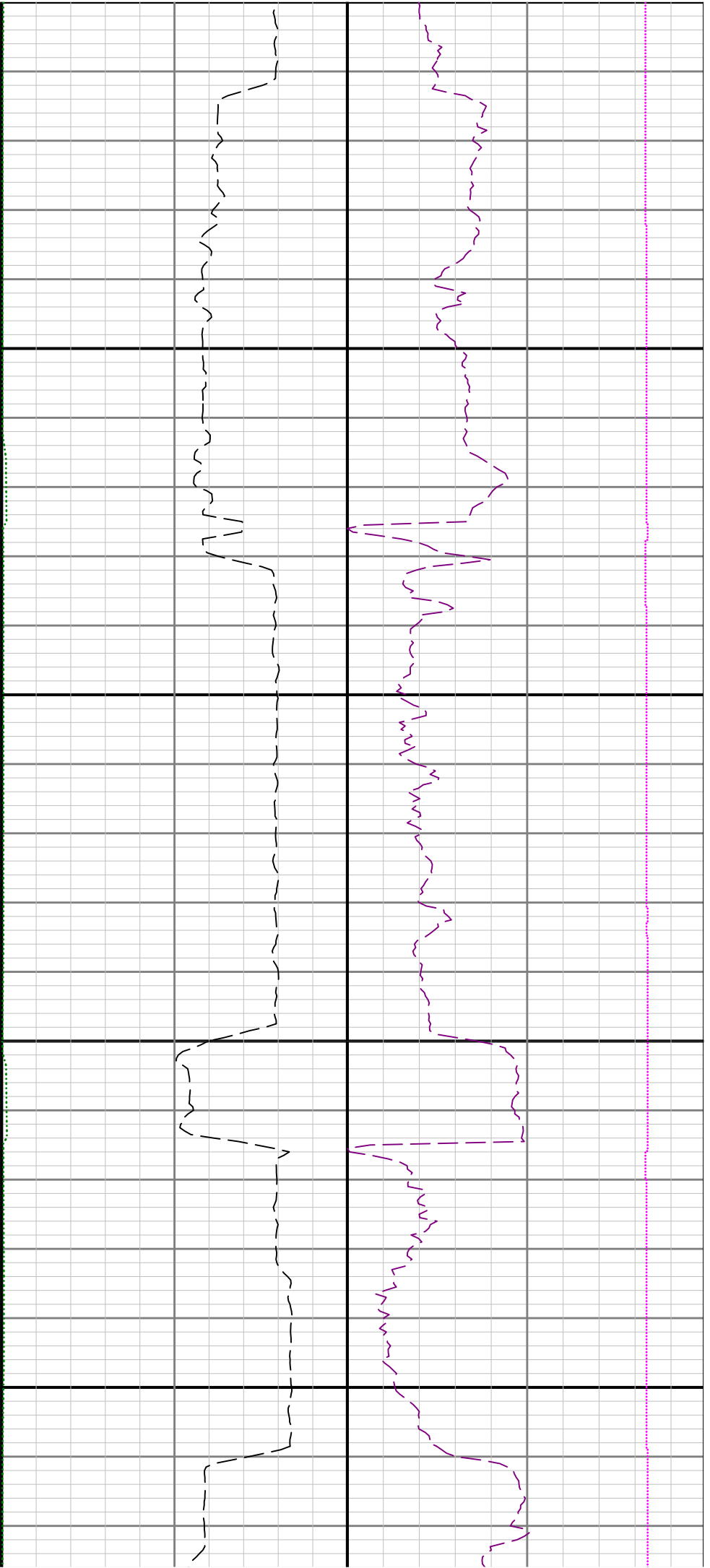


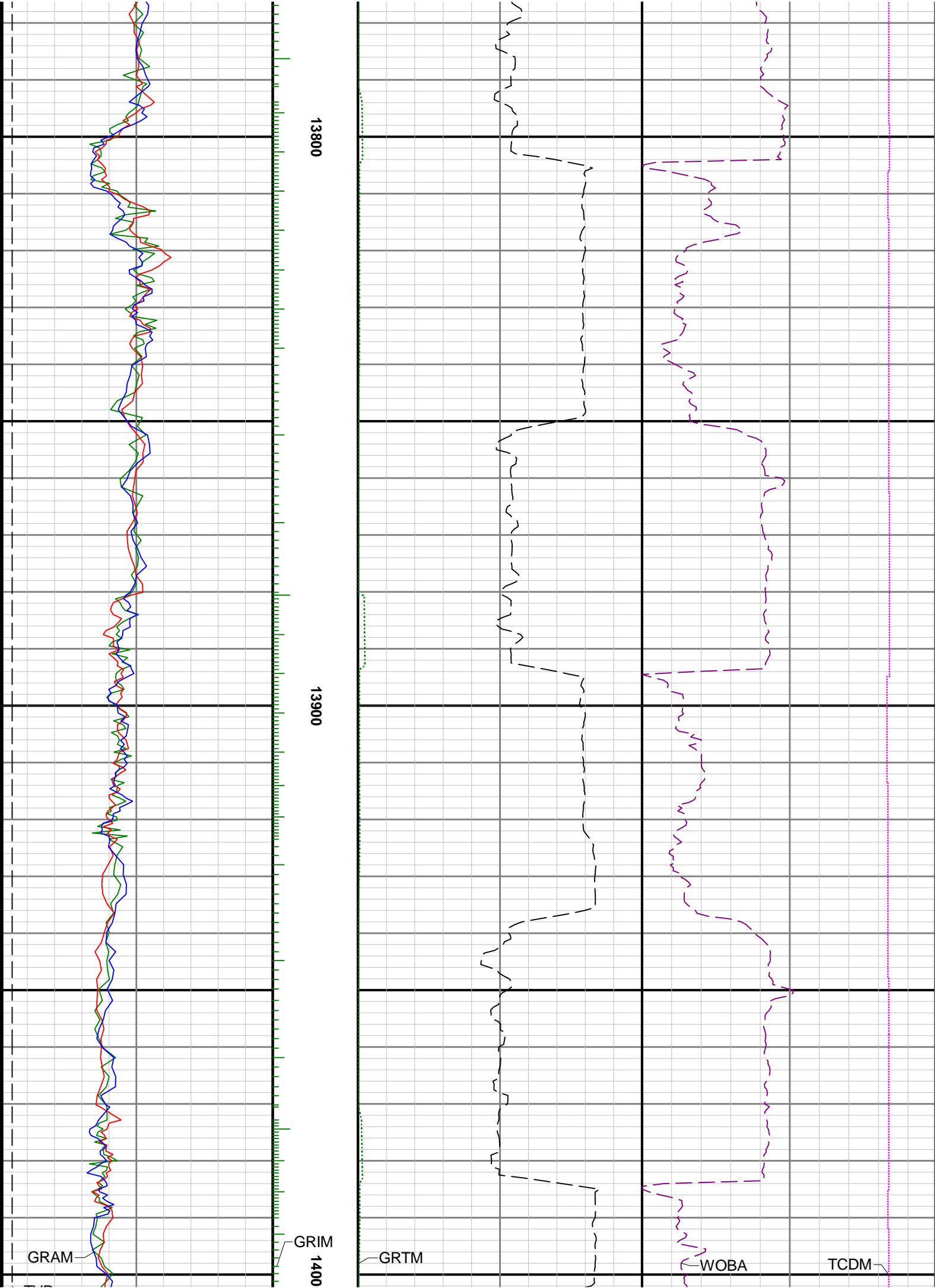


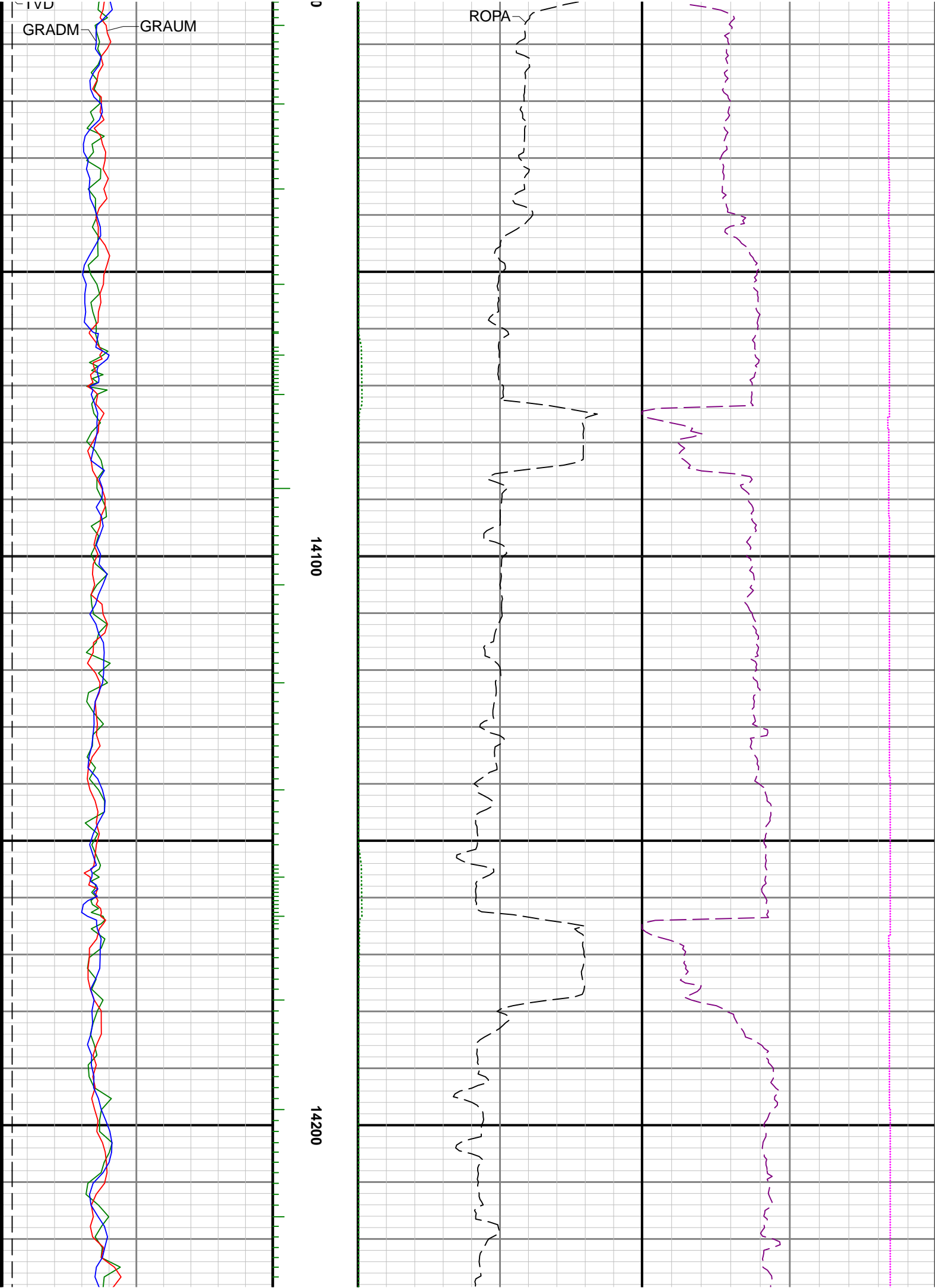
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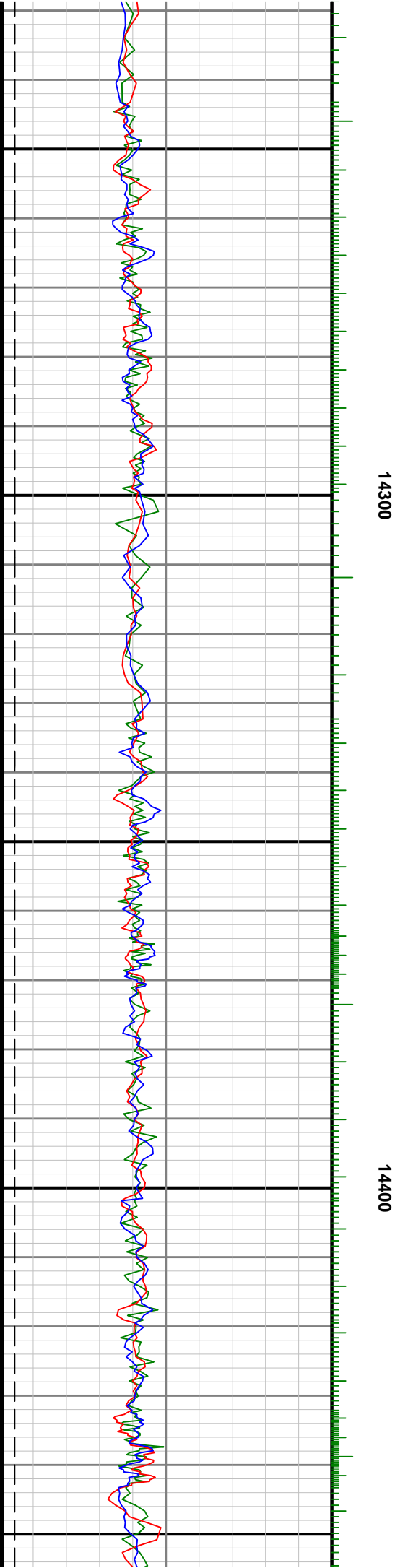
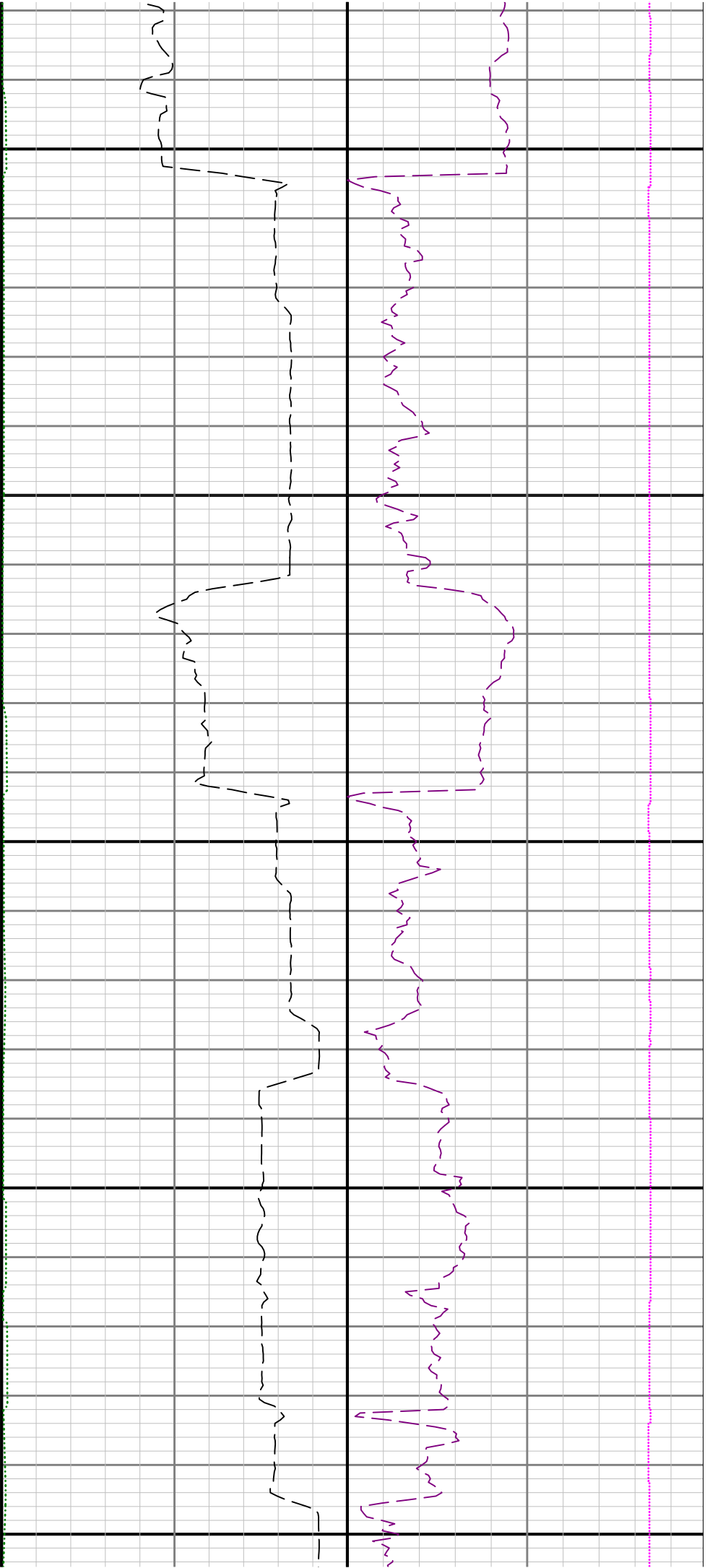
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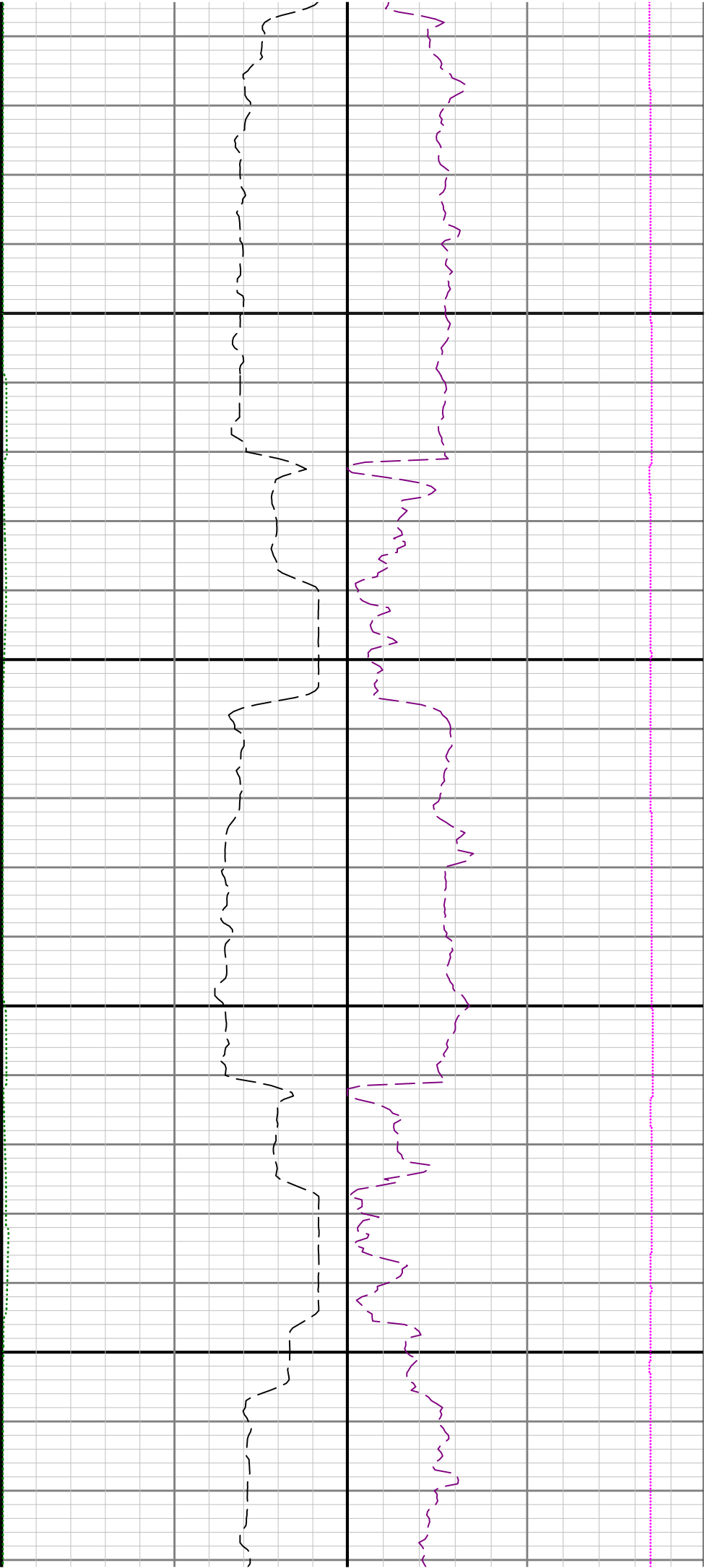






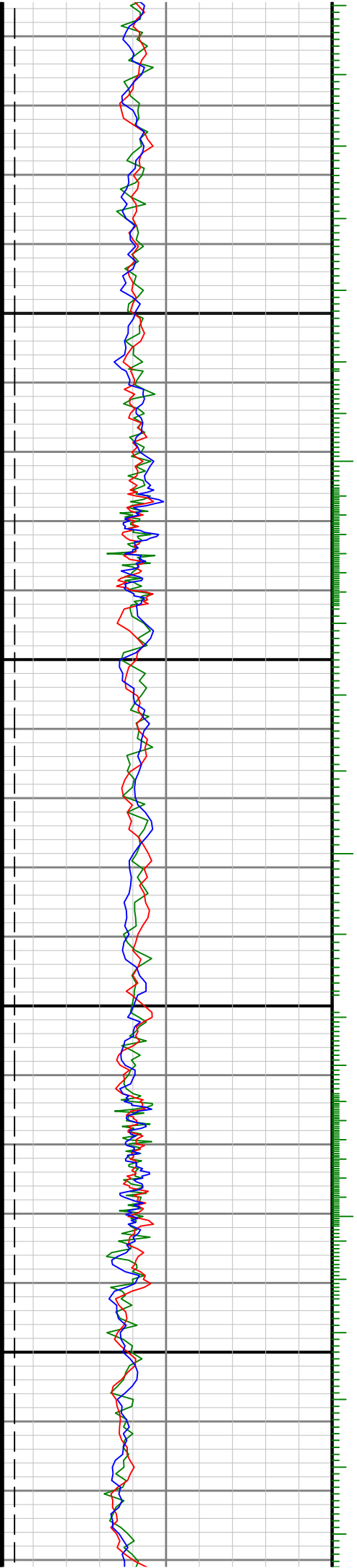


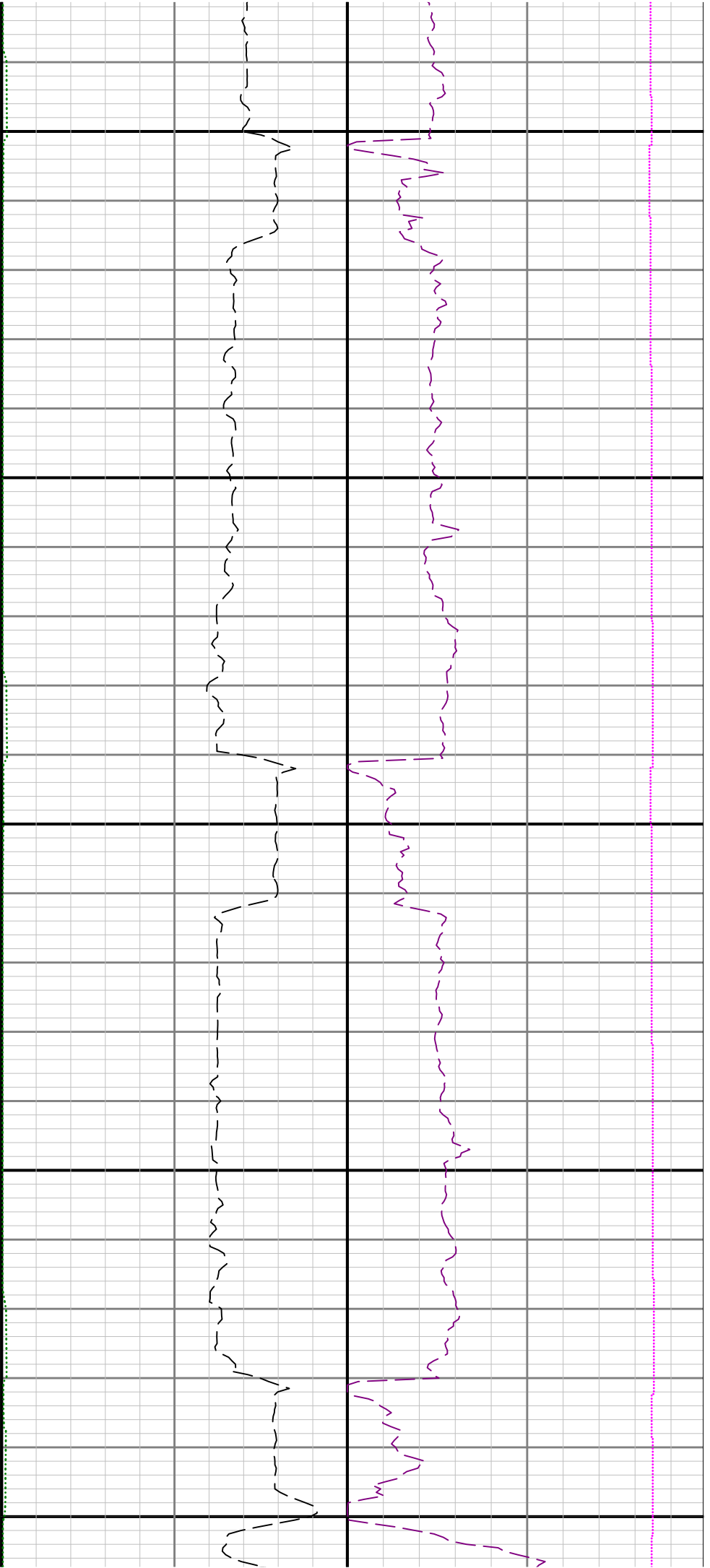




14500

14600





14700

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14900

