



BAKER
HUGHES

Gamma Ray

LWD MEMORY LOG

Scale:	Company: SRC Energy									
	Well: Beebe 14N-26B-M									
	Field: Weld County									
	County: Weld									
	State: Colorado									
Depth Reference:	Country: United States									
	Driller's Depth									
	Status:									
	Final Print									
	Surface Location:									
API No:	Latitude:									
	Longitude:									
	SEC:									
	34 TWN:									
	6N RGE:									
Job ID:	66W									
	Permanent Datum (P.D.):									
	Ground Level									
	Elevation:									
	4701.00 ft									
Log Measured From:	Above P.D.									
	20.00 ft									
	Elev. KB:									
	Elev. DF:									
	Elev. GL:									
Dates	Interval Logged									
	Magnetic Field Reference									
	Date From:									
	2017-05-16									
	Top: (ft)									
Spud Date:	1810.00									
	2017-07-04									
	Bottom: (ft)									
	14285.00									
	Total Magnetic Field Strength: (nT)									
Borehole Record	Mag to Reference North Correction: (deg)									
	7.50 E									
	Casing Record									
	Hole Size (in)									
	From (ft)									
	To (ft)									
	1810.00									
	Size (in)									
	9.625									
	Weight (lb/ft)									
	36.00									
	From (ft)									
	20.00									
	To (ft)									
	1795.00									
	8.500									
	1810.00									
	14285.00									

2	2	8.500	PDC	3.00	Rotary Steerable	1810.00	9039.00	1810.00	9051.00	2017-07-01 19:43	2017-07-03 00:04	24.43
3	3	8.500	PDC	3.00	Rotary Steerable	9038.00	14272.00	9051.00	14285.00	2017-07-03 11:07	2017-07-04 07:30	20.42

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Matthew Leopold	2017-07-01	2017-07-04						

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+ (%)
2017-05-15 19:42	1	20.00	Fresh Water	8.4	9	7.6	6.5	7/93	Active Pit	55000	0.00
2017-07-01 13:28	2	1810.00	Oil Based Mud	9.5	14	N/A	8.5	80/20	Active Pit	35000	0.00
2017-07-02 16:00	2	7227.00	Oil Based Mud	9.4	16	N/A	6.2	80/20	Active Pit	35000	0.00
2017-07-03 04:00	3	9052.00	Oil Based Mud	9.7	24	N/A	6.7	79/21	Active Pit	37000	0.00
2017-07-03 16:00	3	10402.00	Oil Based Mud	9.6	18	N/A	7.3	80/20	Active Pit	37000	0.00
2017-07-04 04:00	3	13557.00	Oil Based Mud	9.6	21	N/A	7.7	80/20	Active Pit	36000	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	ZAPS230922	Gamma (single)	9.66	59.58	8.000	3.250
1	Sensor Sub	ZAPS230922	VSS	10.99	60.91	8.000	3.250
1	Sensor Sub	ZAPS230922	Directional (mag)	10.99	60.91	8.000	3.250
1	Sensor Sub	ZAPS230922	Pressure	31.53	81.45	8.000	3.250
2	ATC_SU	11747241	Near Bit Inclination	5.93	6.73	7.000	4.330
2	ATC_SU	11747241	Near Bit VSS	5.93	6.73	7.000	4.330
2	ATC_MWD	12109322	Gamma (single)	2.77	12.90	7.000	3.250
2	ATC_MWD	12109322	Directional (mag)	12.29	22.42	7.000	3.250
3	ATC_SU	14169948	Near Bit VSS	5.93	6.73	7.000	4.330
3	ATC_SU	14169948	Near Bit Inclination	5.93	6.73	7.000	4.330
3	ATC_MWD	12706130	Gamma (single)	2.19	12.35	7.000	3.250
3	ATC_MWD	12706130	Directional (mag)	12.26	22.42	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

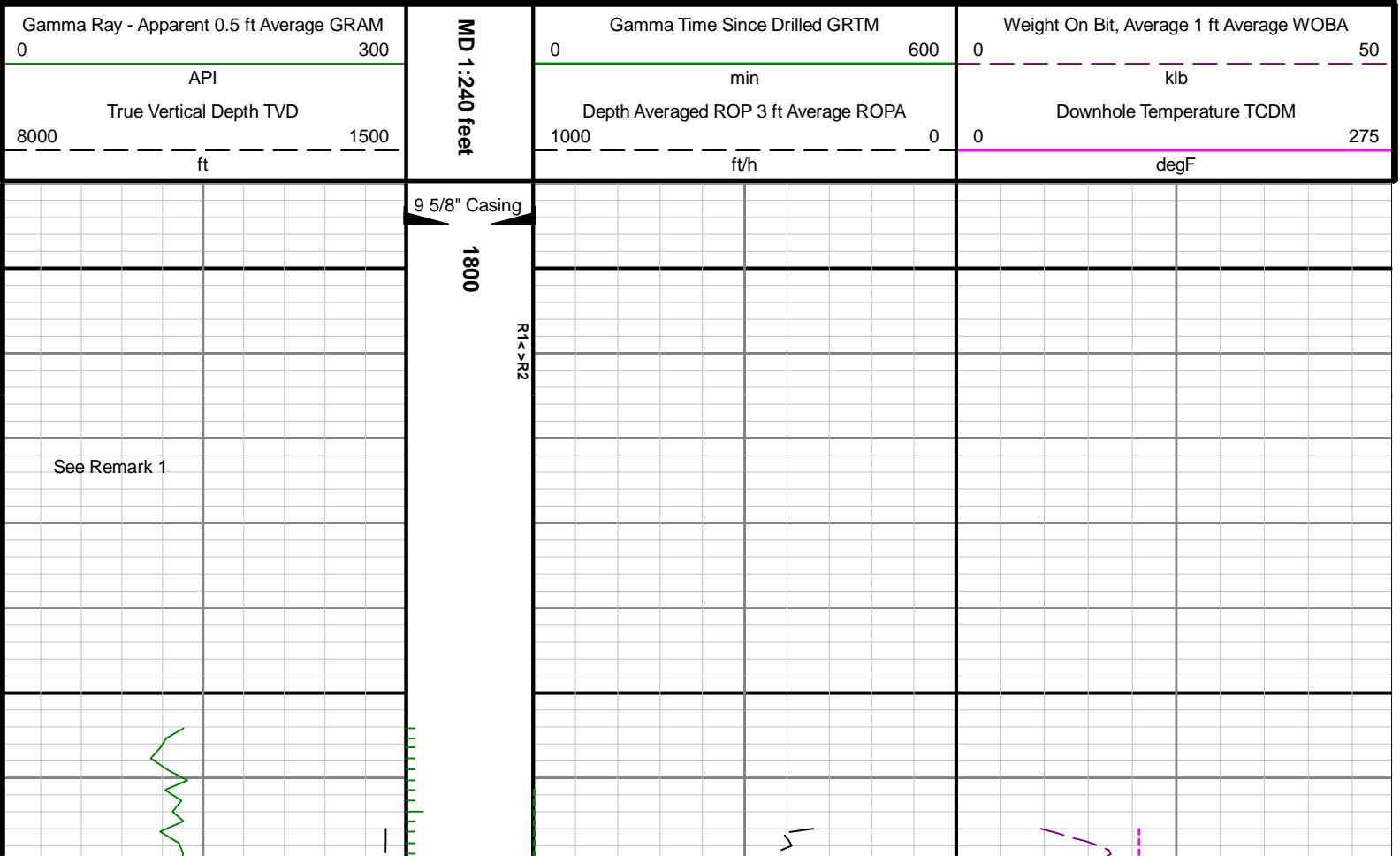
1	Depth measurements obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
2	06/17/17 * @ 15:00 } 1810' to 1775' MD (1775' to 1775' TVD). No logging data was acquired during this run.
3	06/17/17 * @ 15:00 } 1810' to 14285' MD (1775' to 14285' TVD).
4	Gamma Ray Apparent (GRAM) is presented 0 to 300 API per customer request.

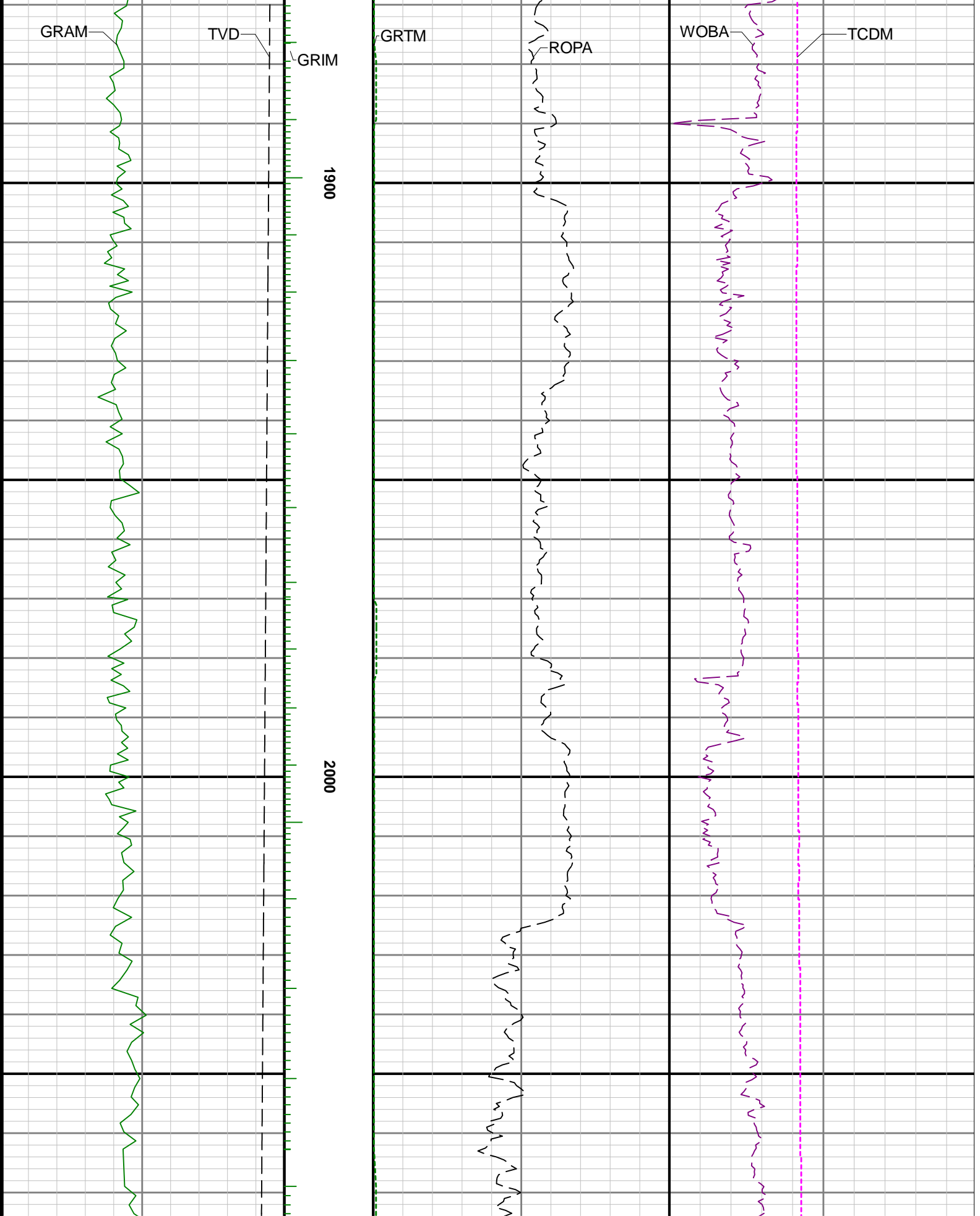
Remarks				
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	1823.00	8.500	2	The interval from 1810 to 1854 feet MD (1775 to 1816 feet TVD) surface data was not logged due to an issue with surface software.
2	8983.00	8.500	3	The interval from 8981 to 9010 feet MD (6996 feet TVD) was logged up to 11 hours after being drilled due to a trip out of the hole for a tool failure.
3	14061.00	8.500	3	The interval from 14050 to 14138 feet MD (7048 feet TVD) was not logged due to tool failure while drilling ahead.
4	14277.00	8.500	3	The interval from 14272 to 14285 feet MD (7062 feet TVD) was not logged due to sensor to bit offset at well TD.

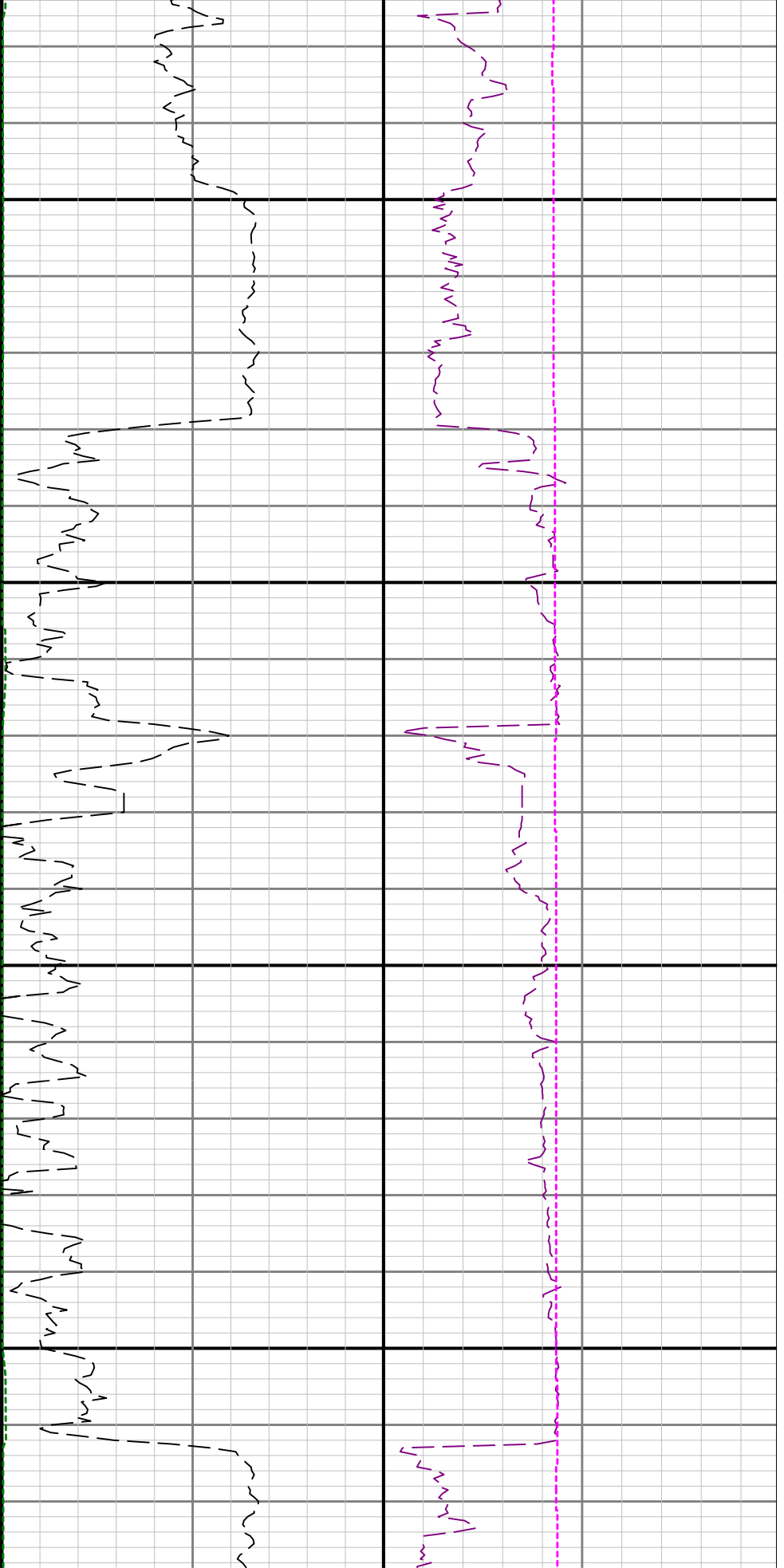
Curve Mnemonics

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
TCDM	Downhole Temperature	degF

	Company	SRC Energy			
	Well	Beebe 14N-26B-M			
	Interval	Date From:	2017-05-16 08:02:24	Top:	1810.00
		Date To:	2017-07-04 01:30:46	Bottom:	14285.00
	Created	2017-07-04 18:27:56			

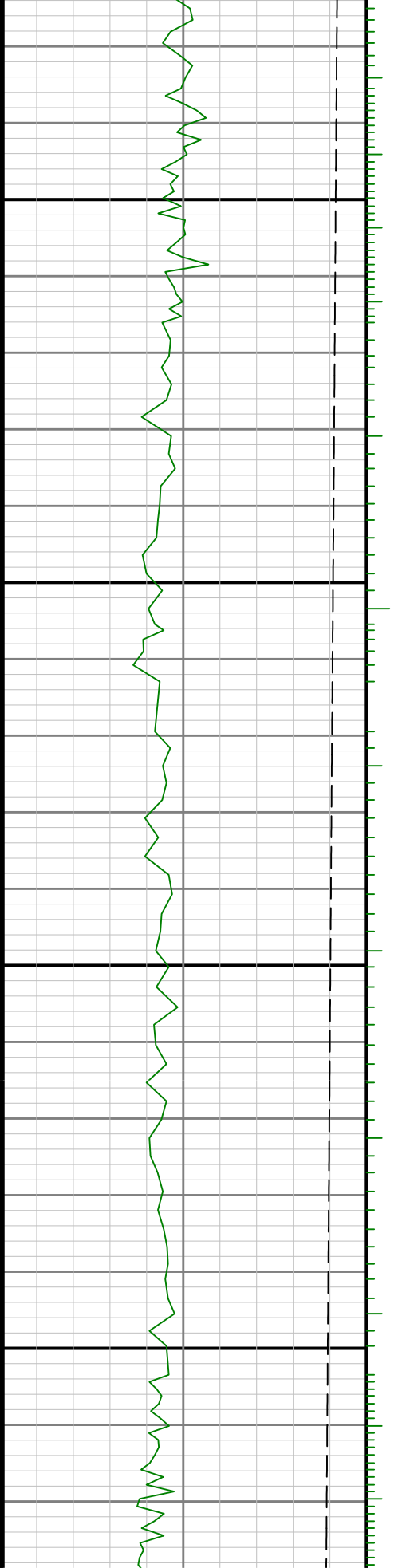


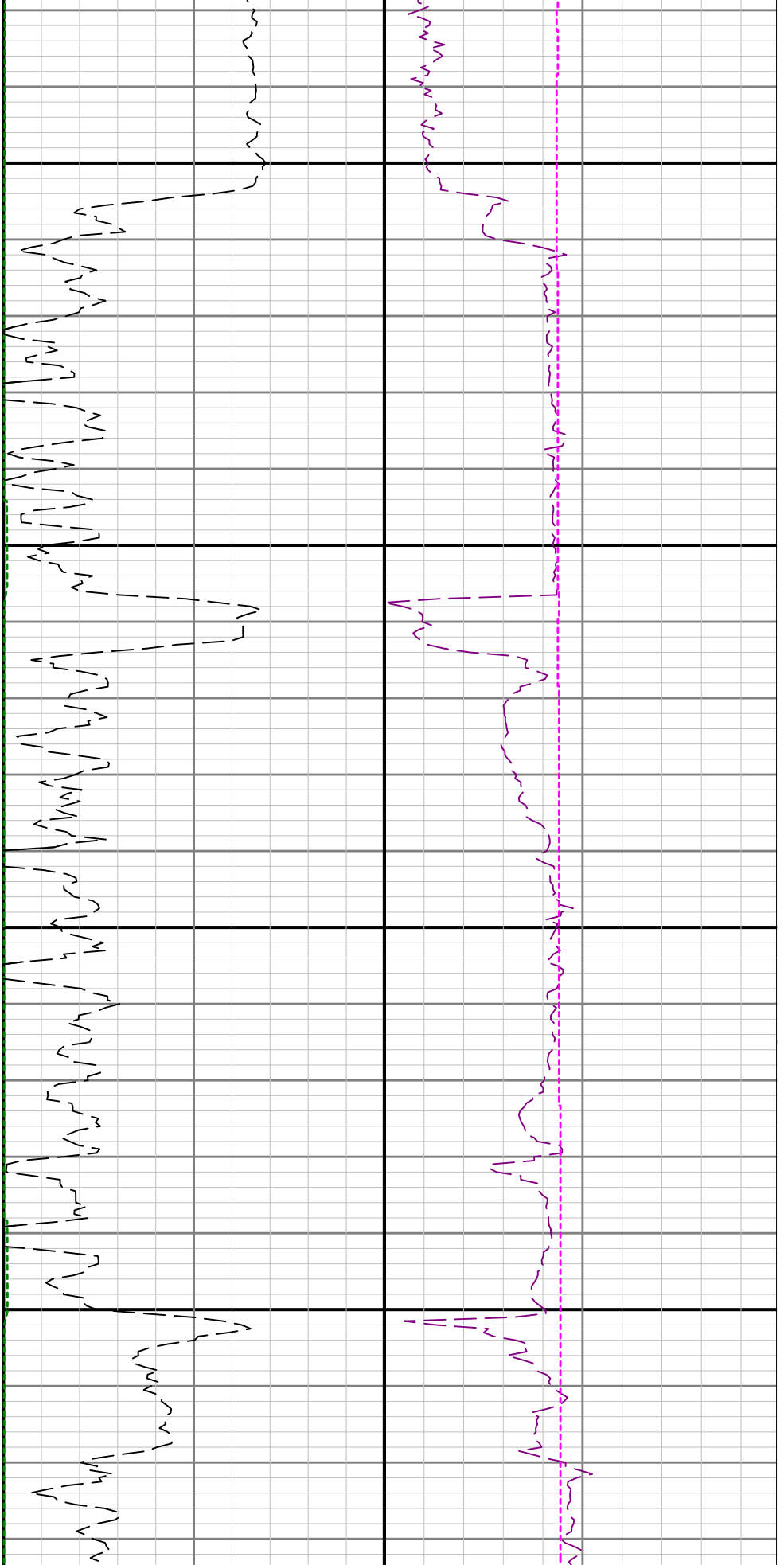




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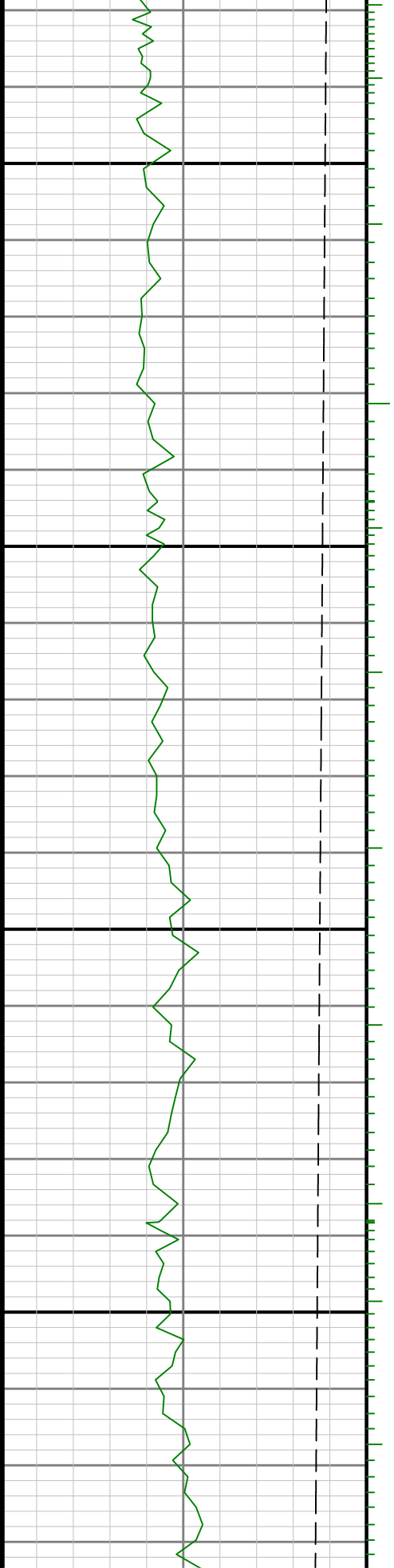
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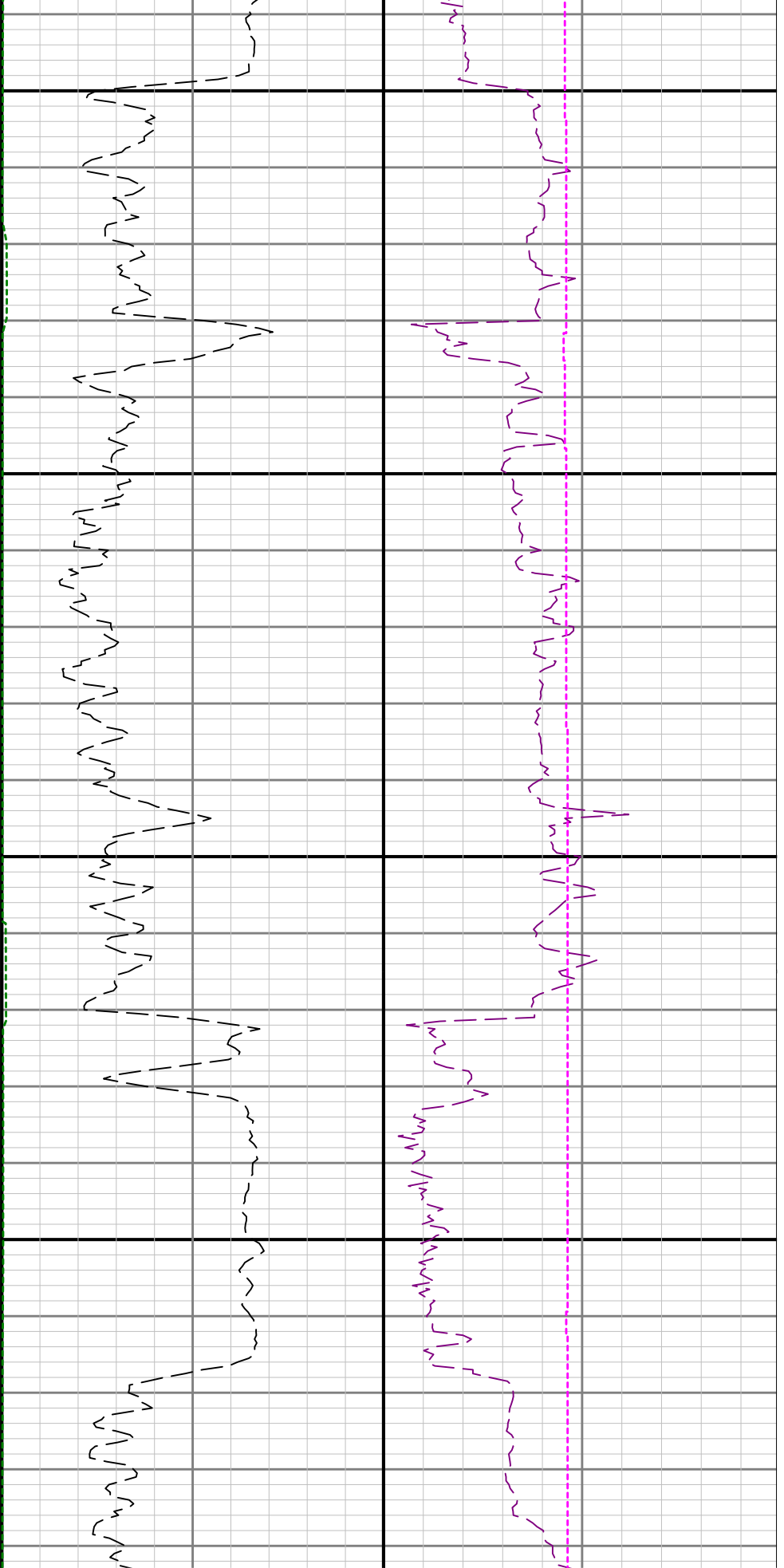




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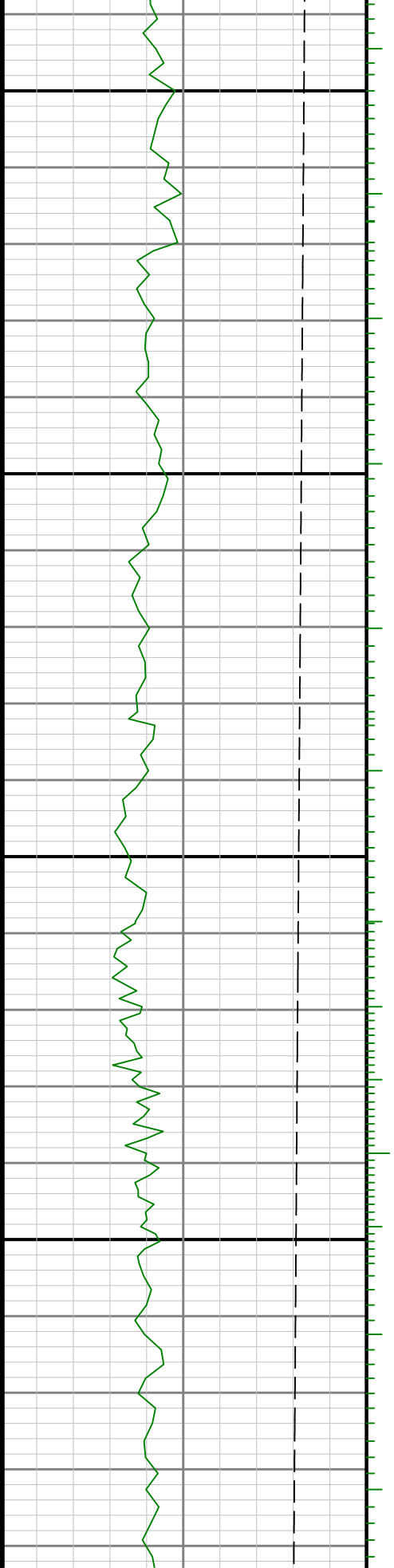
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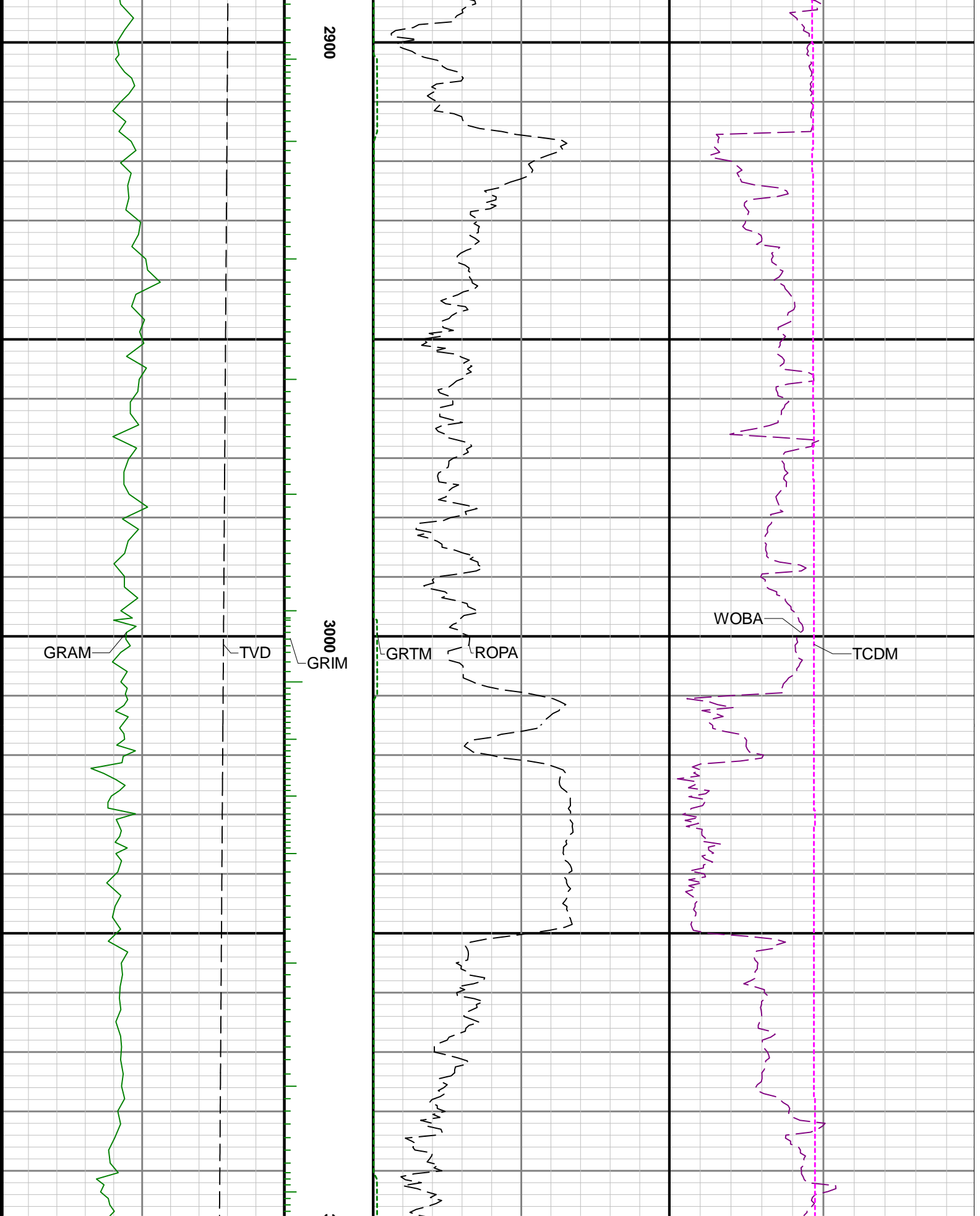


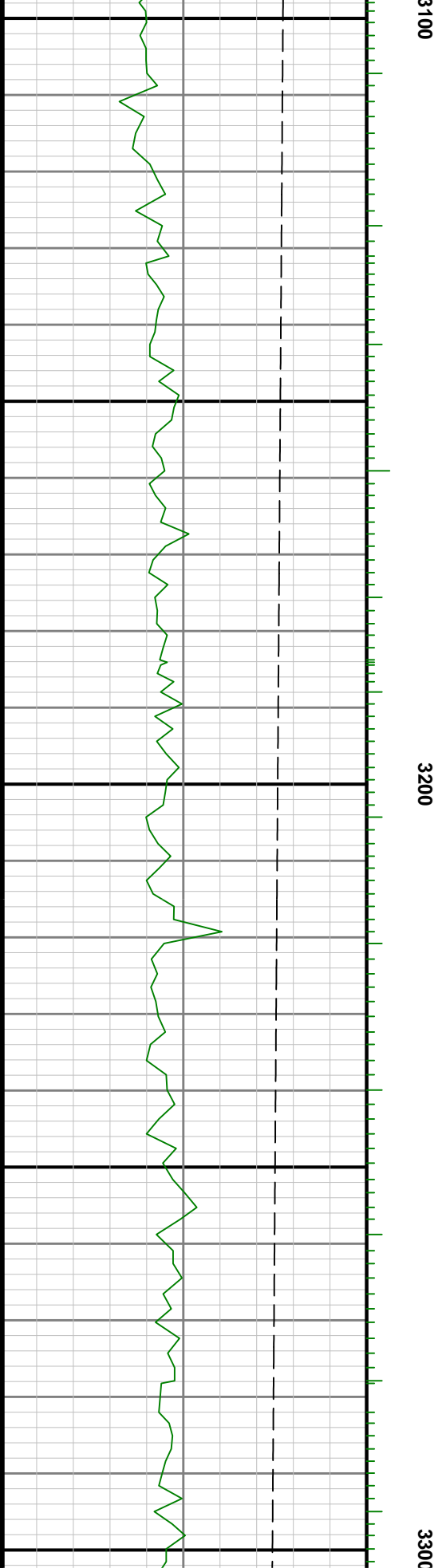
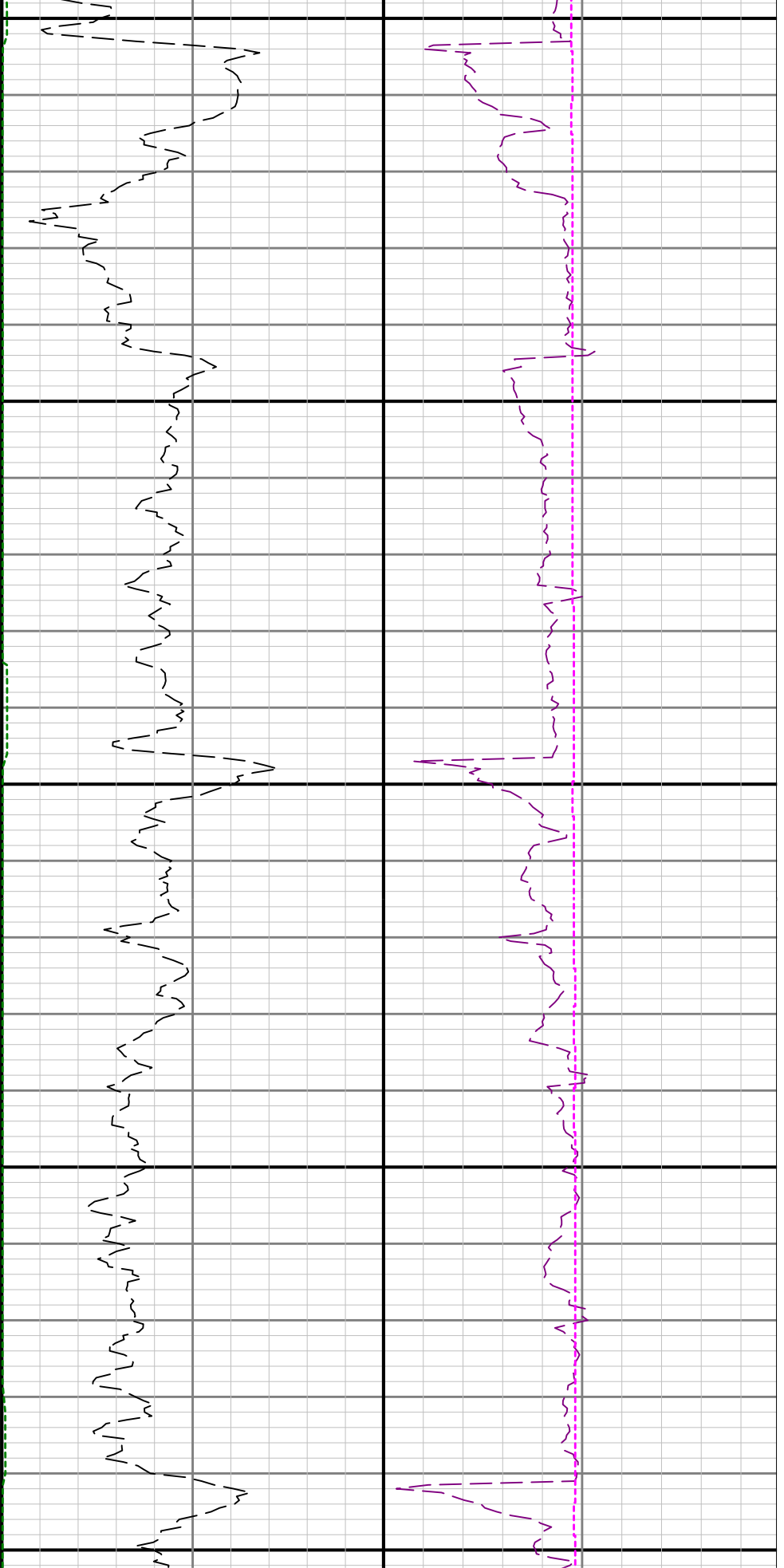


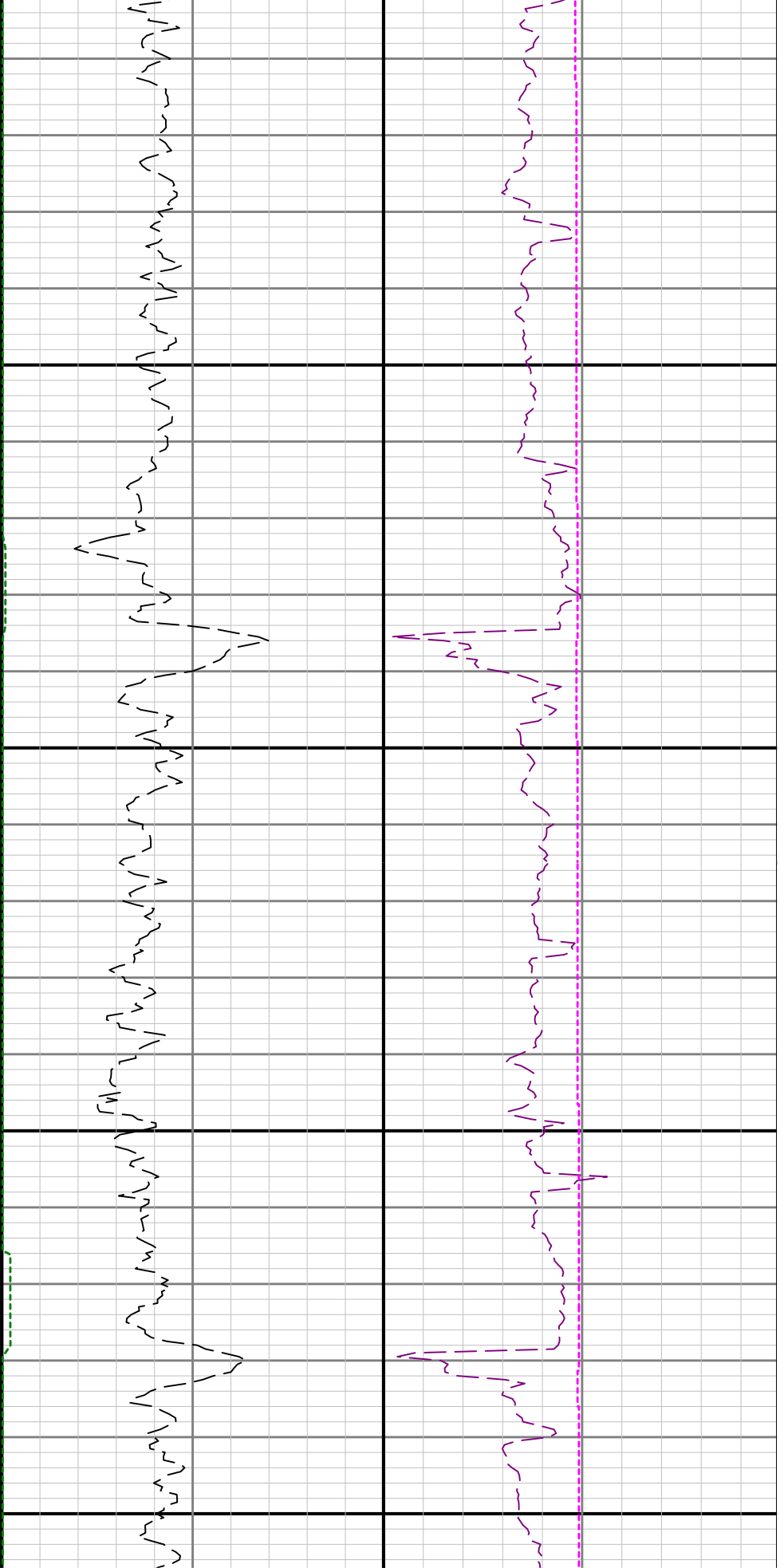
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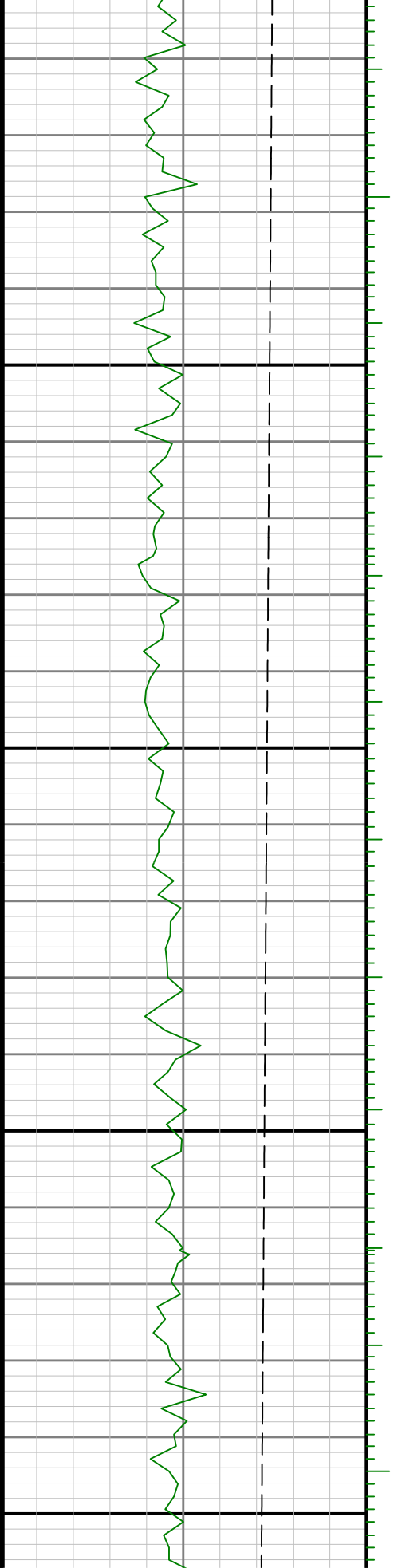


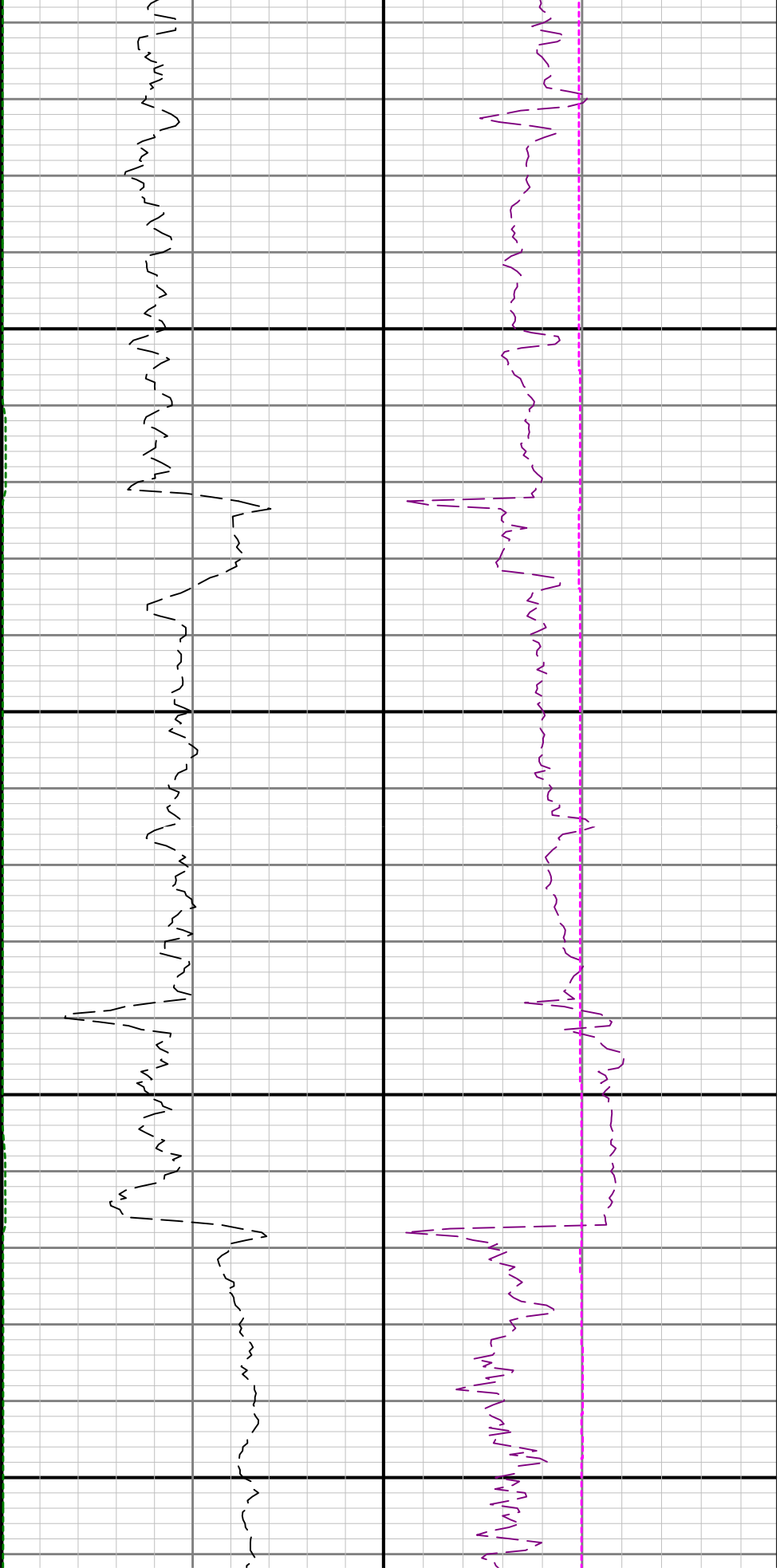




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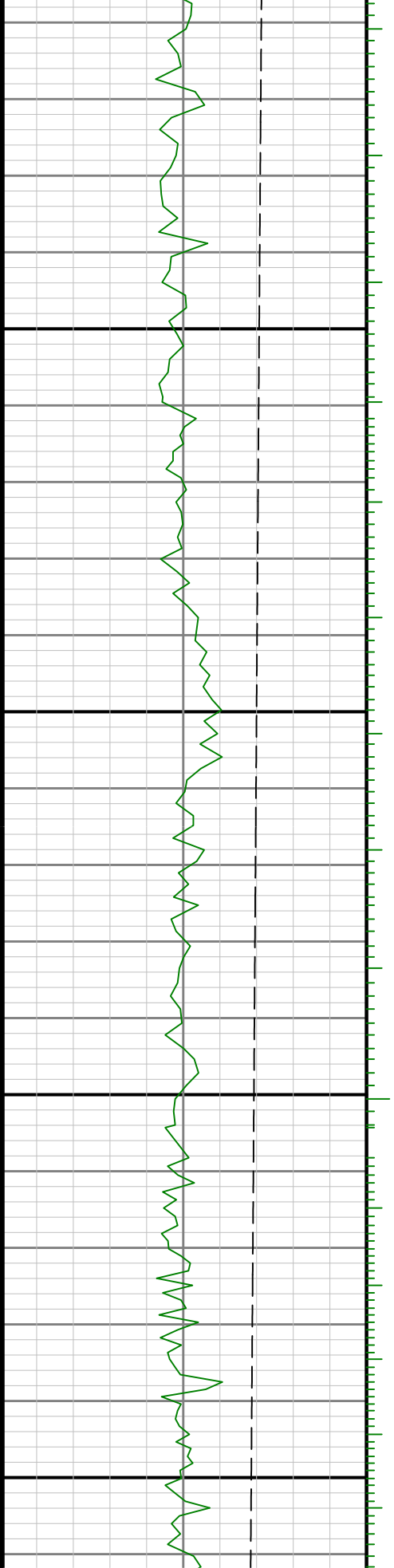
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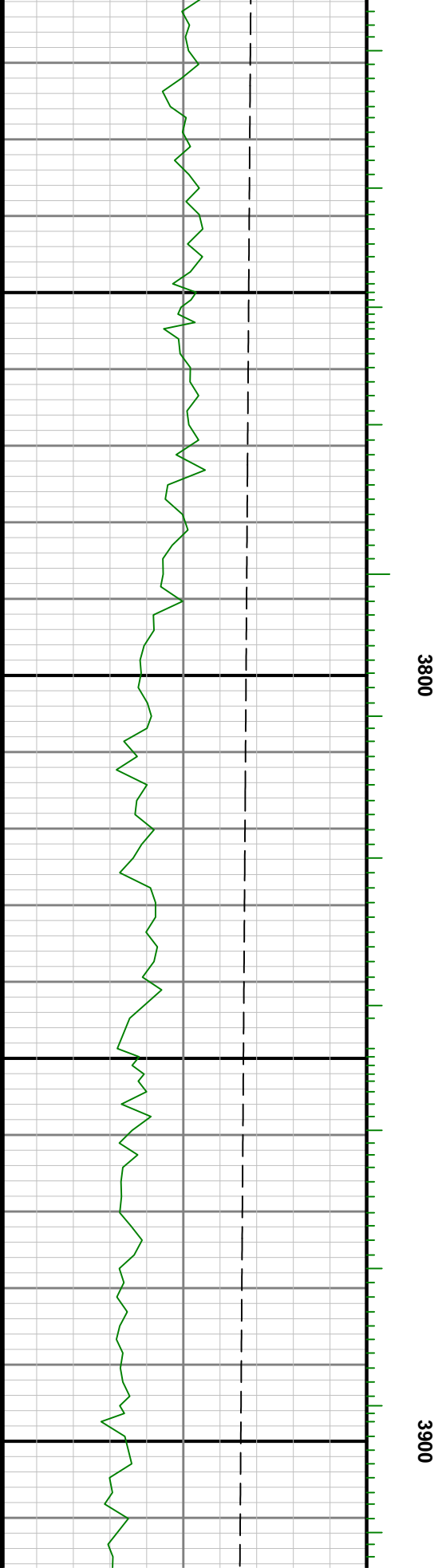
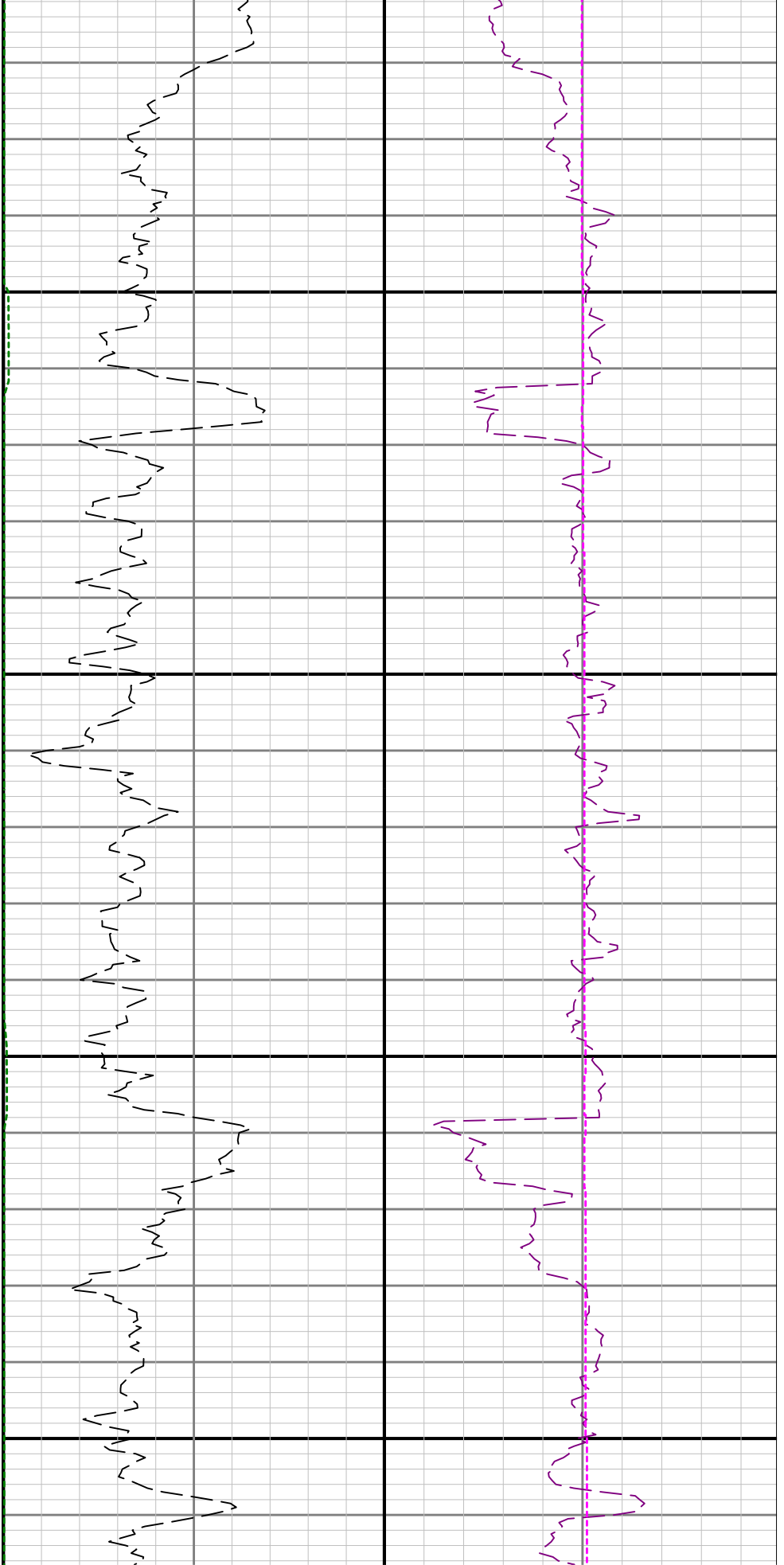


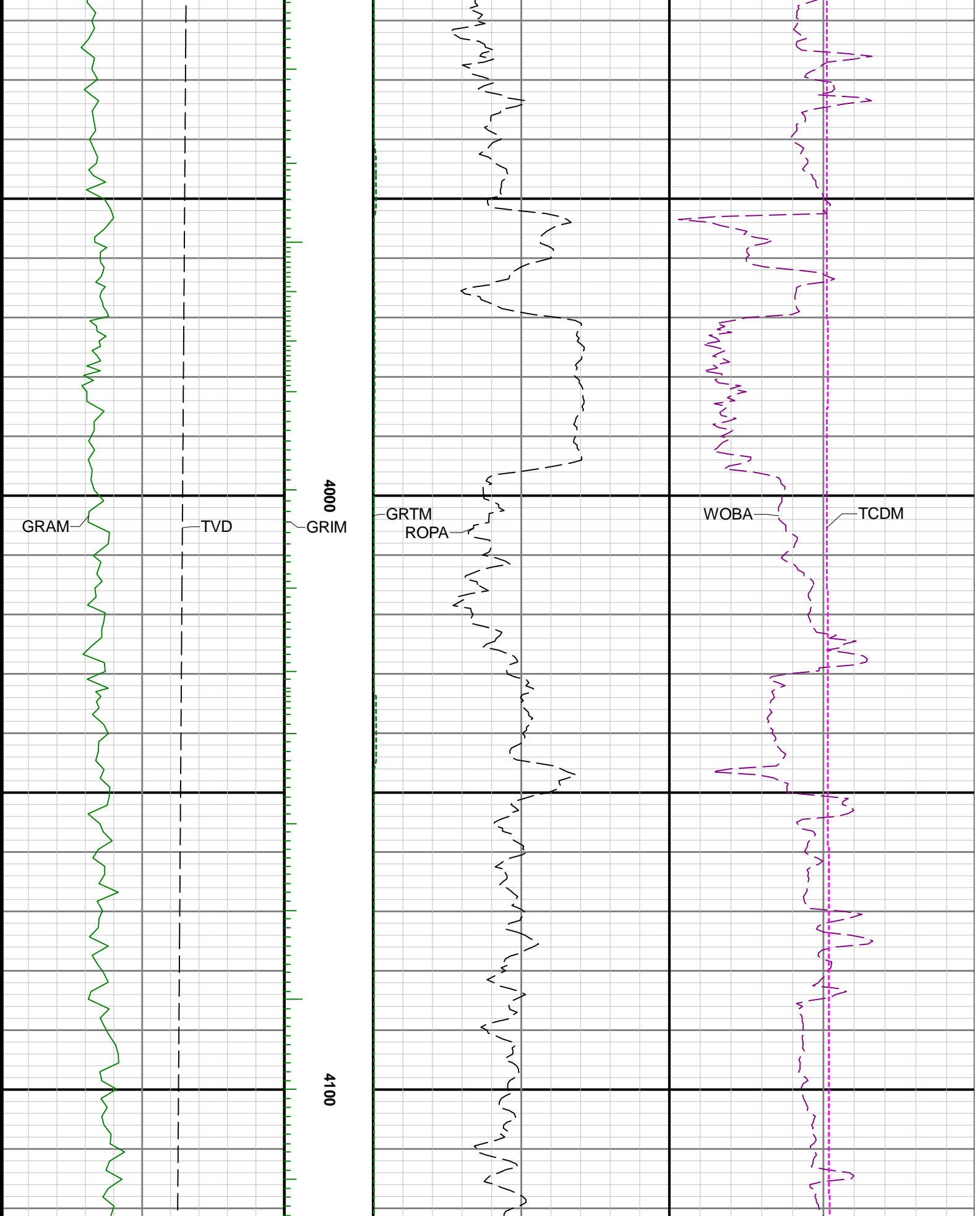


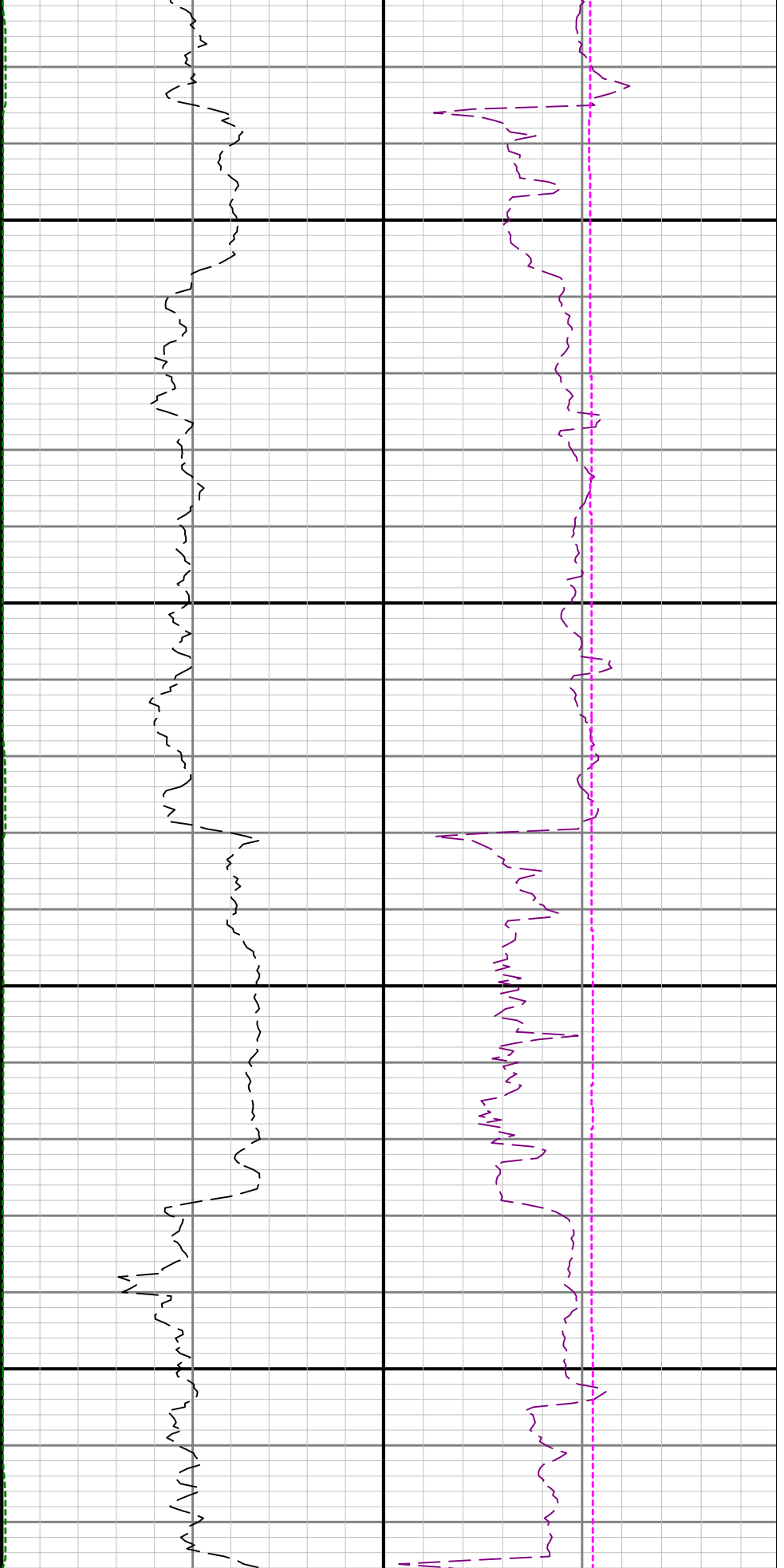
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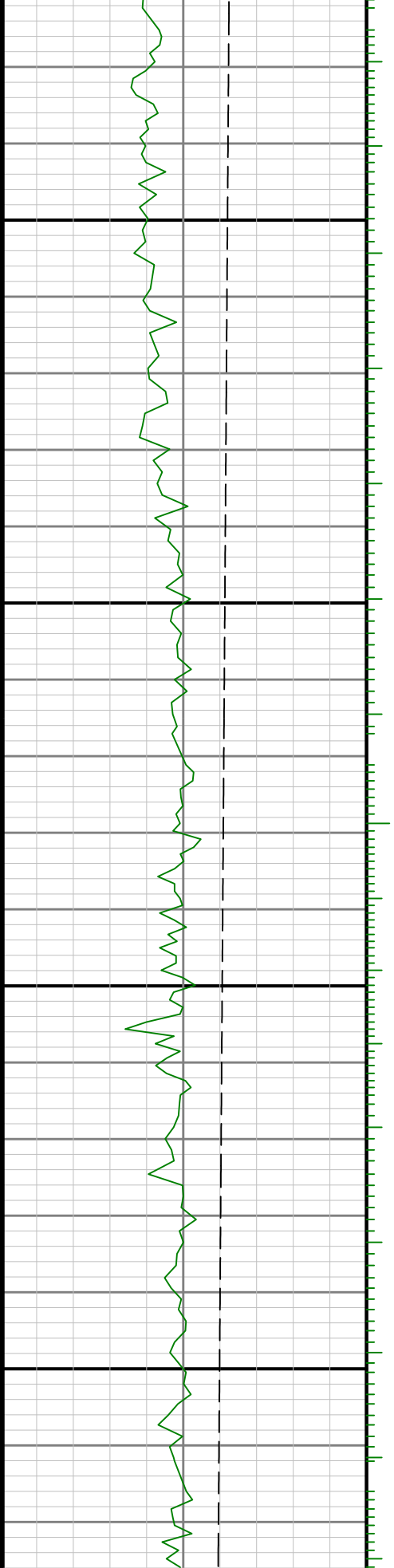


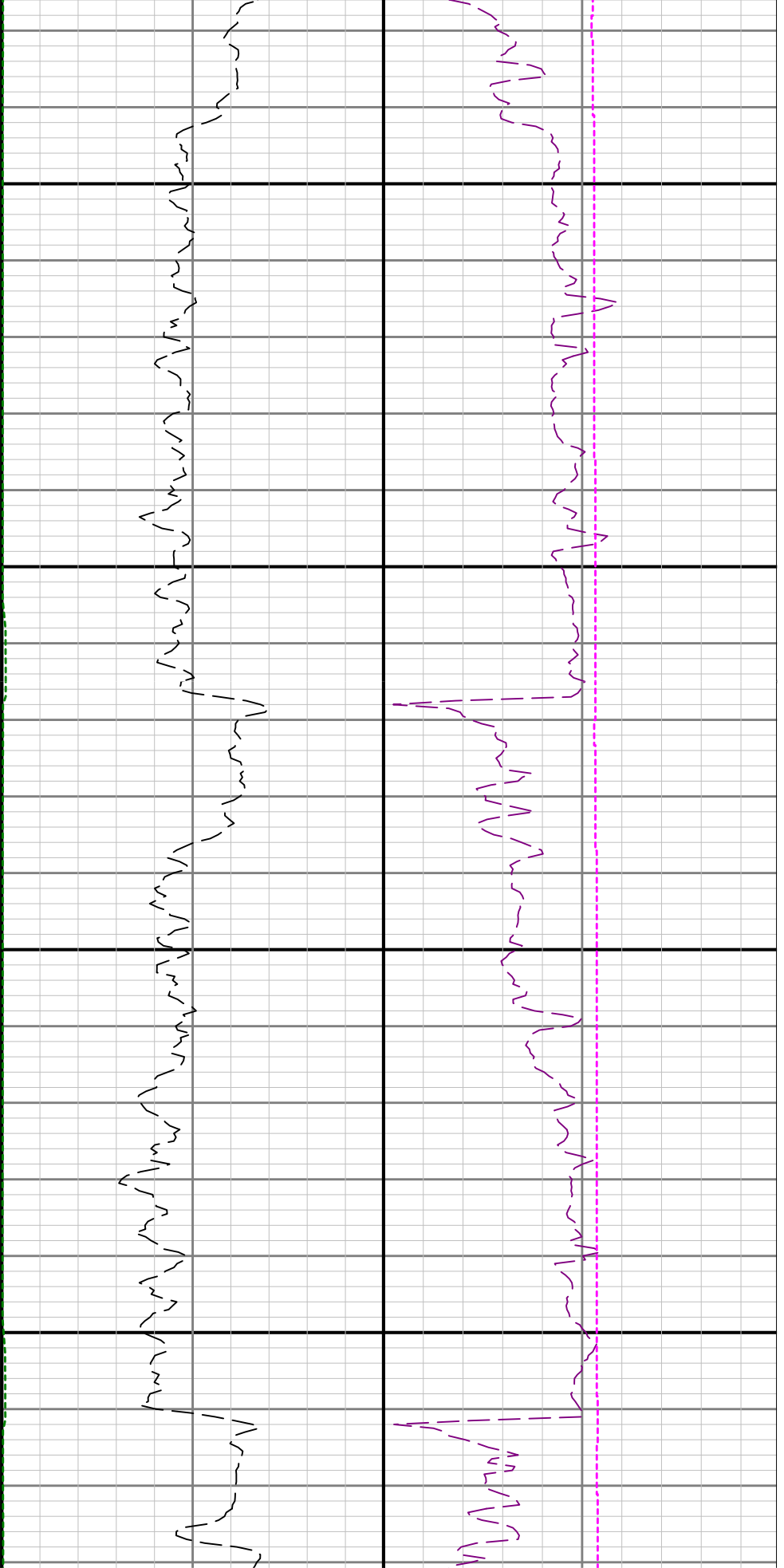




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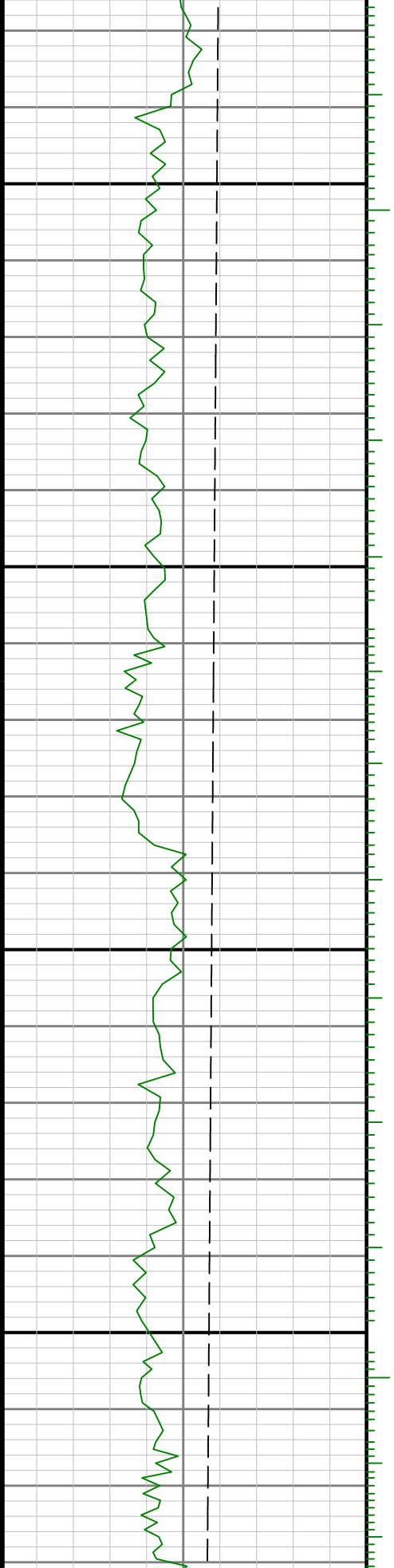
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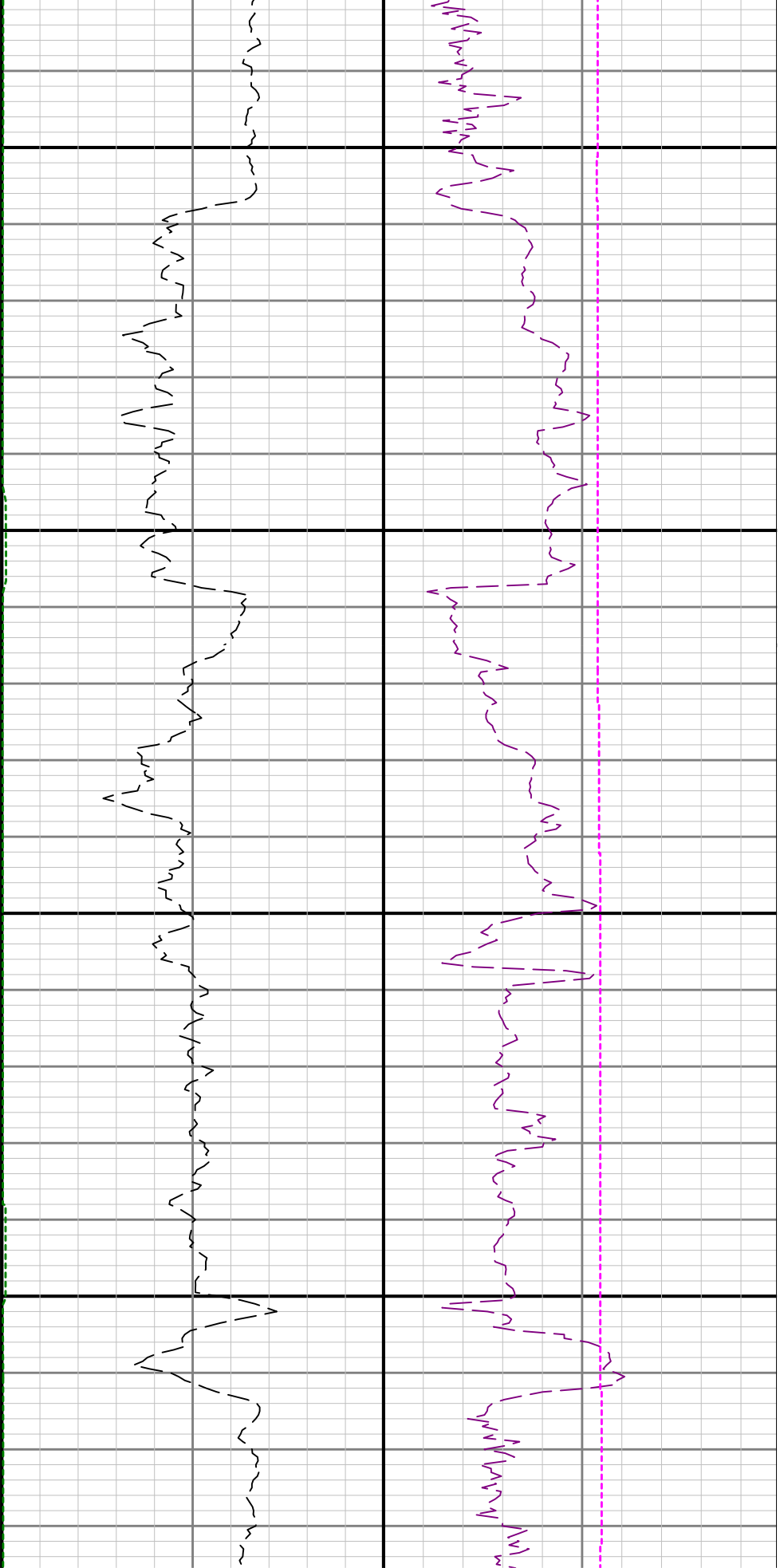




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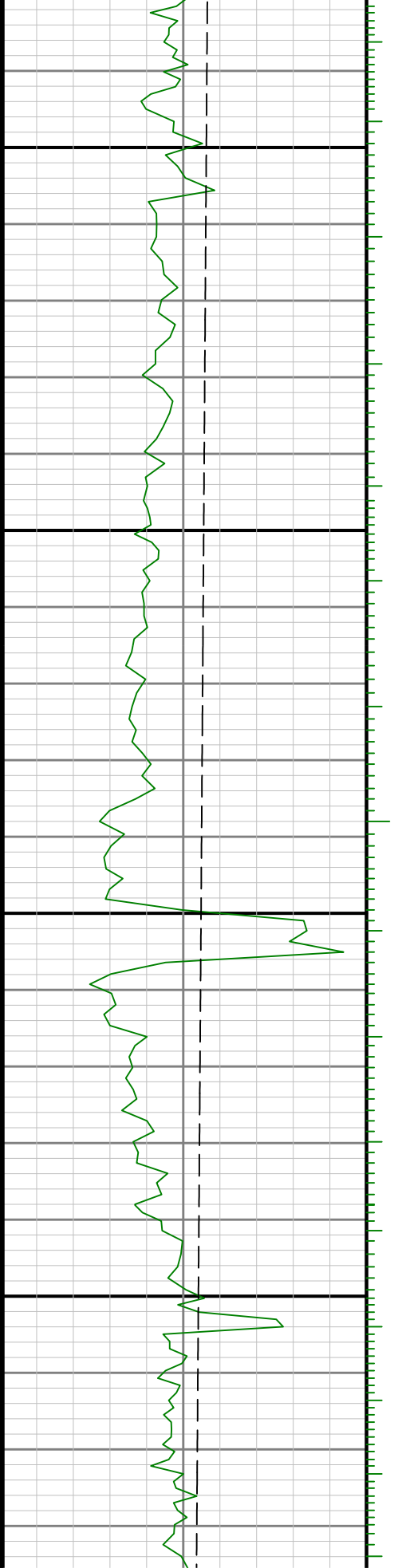
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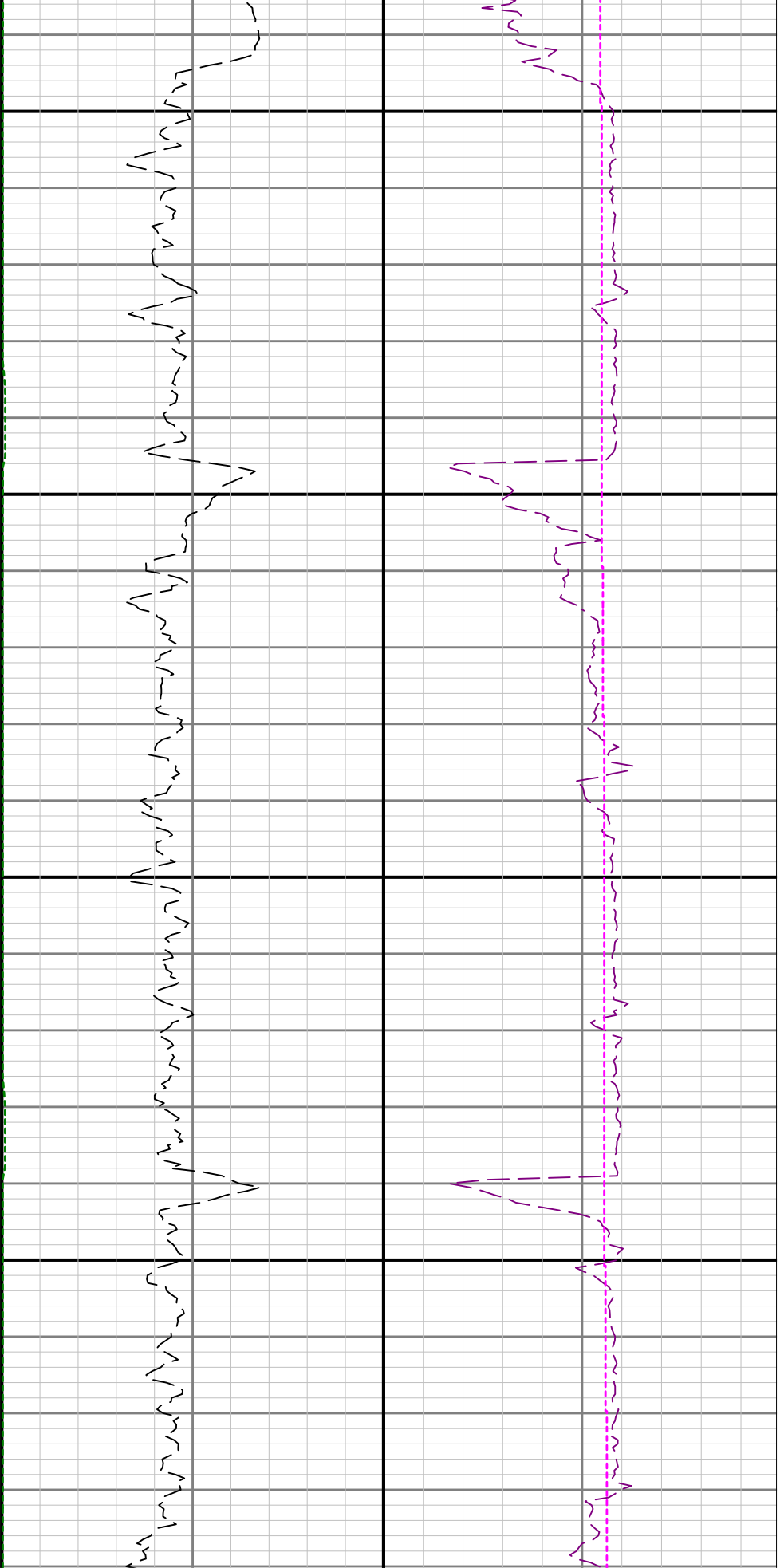




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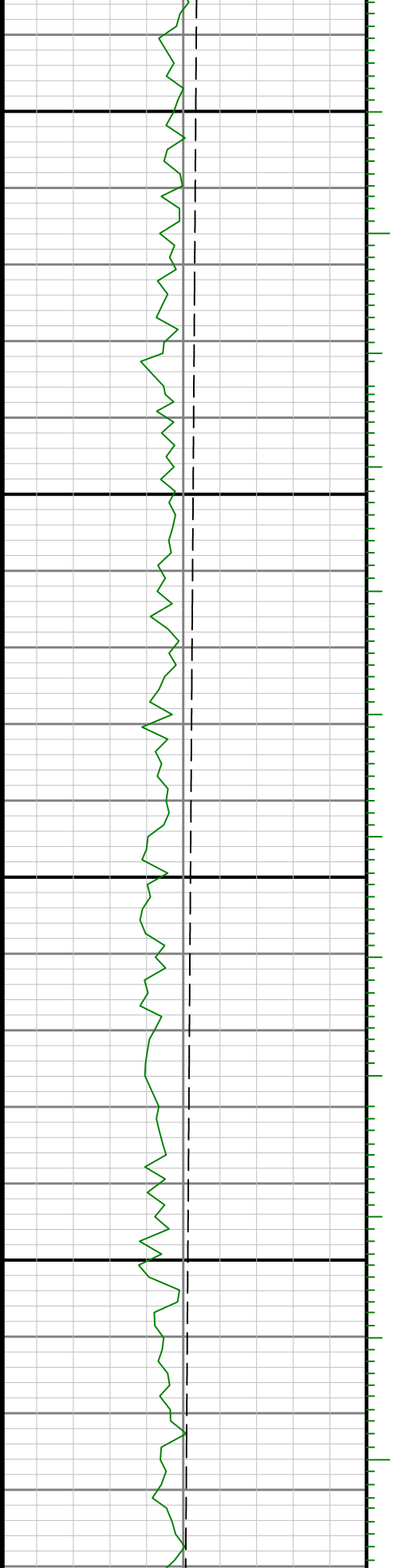
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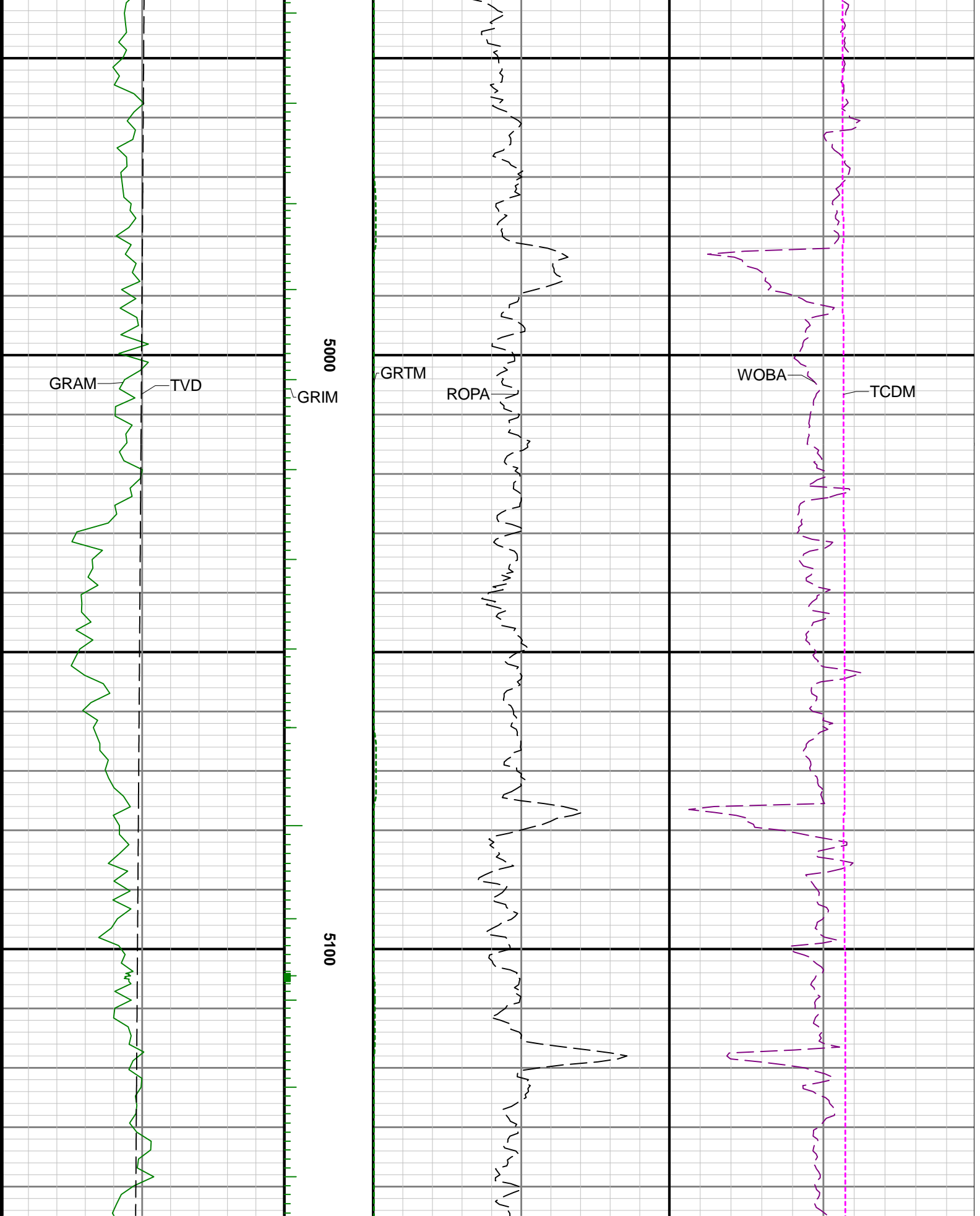


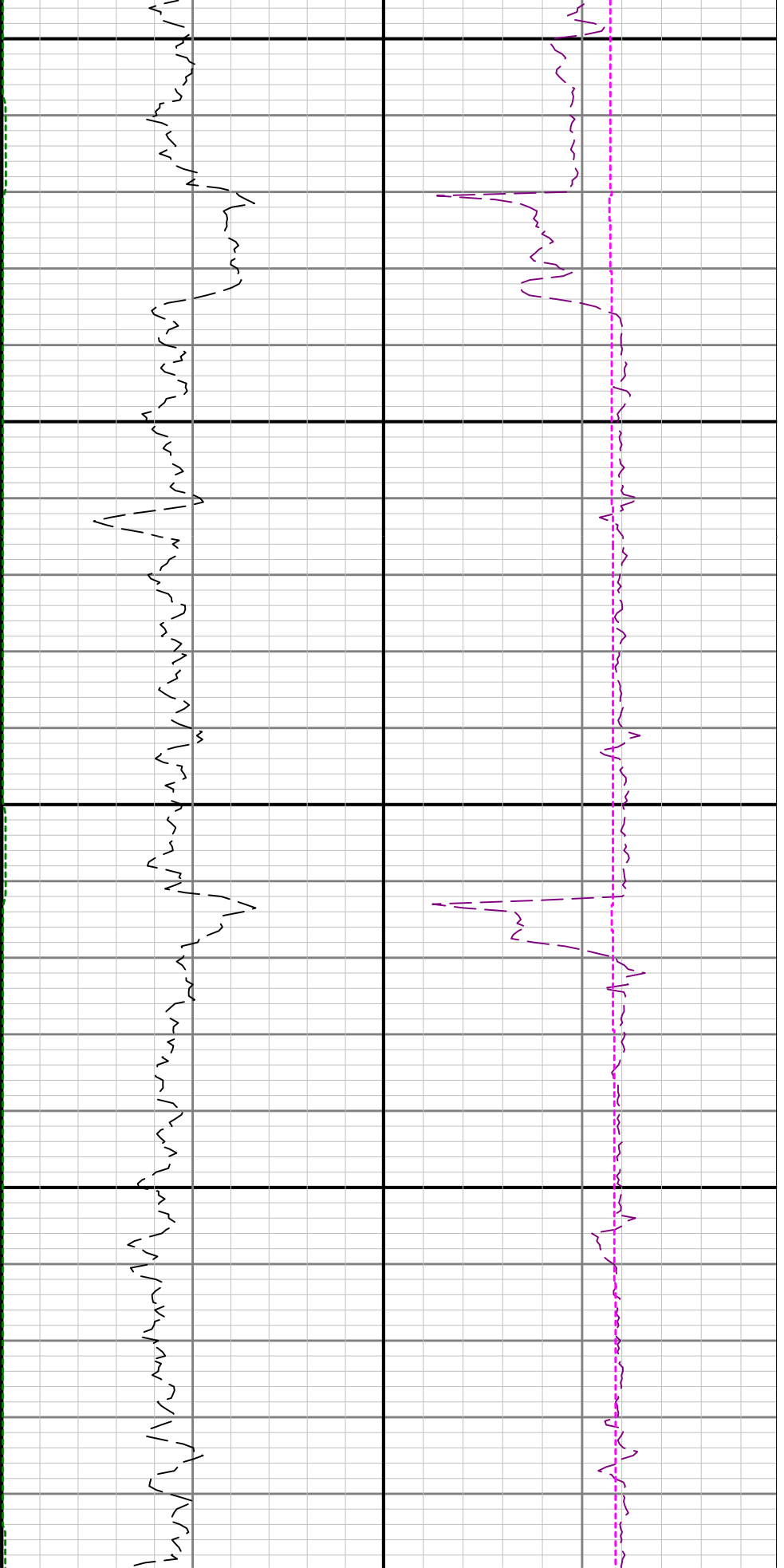


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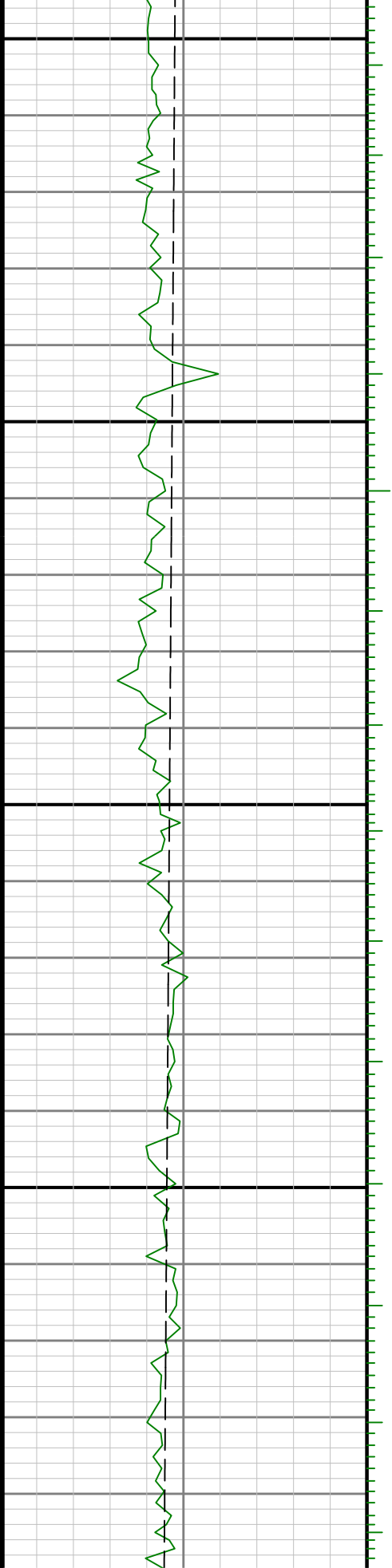


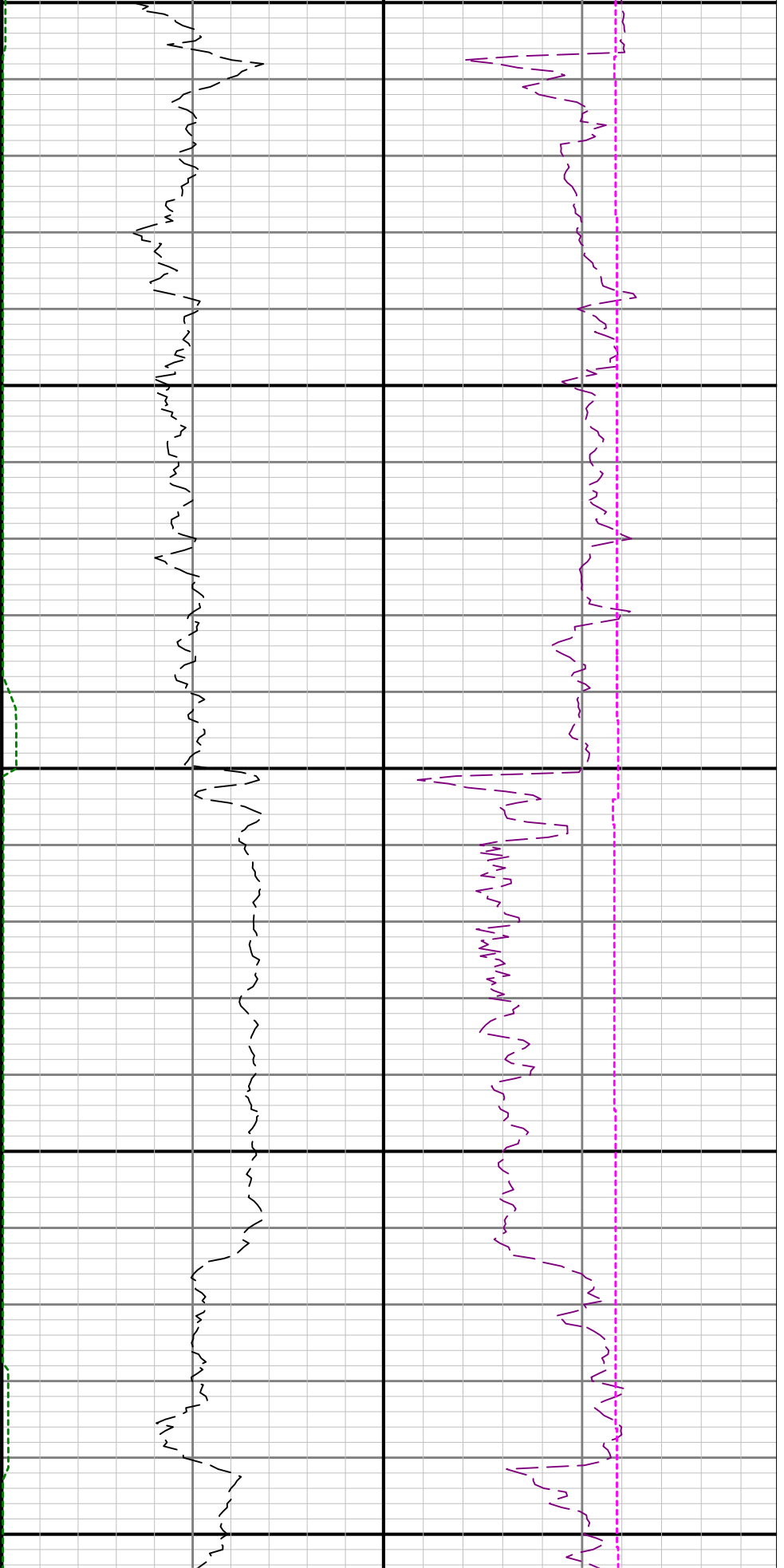




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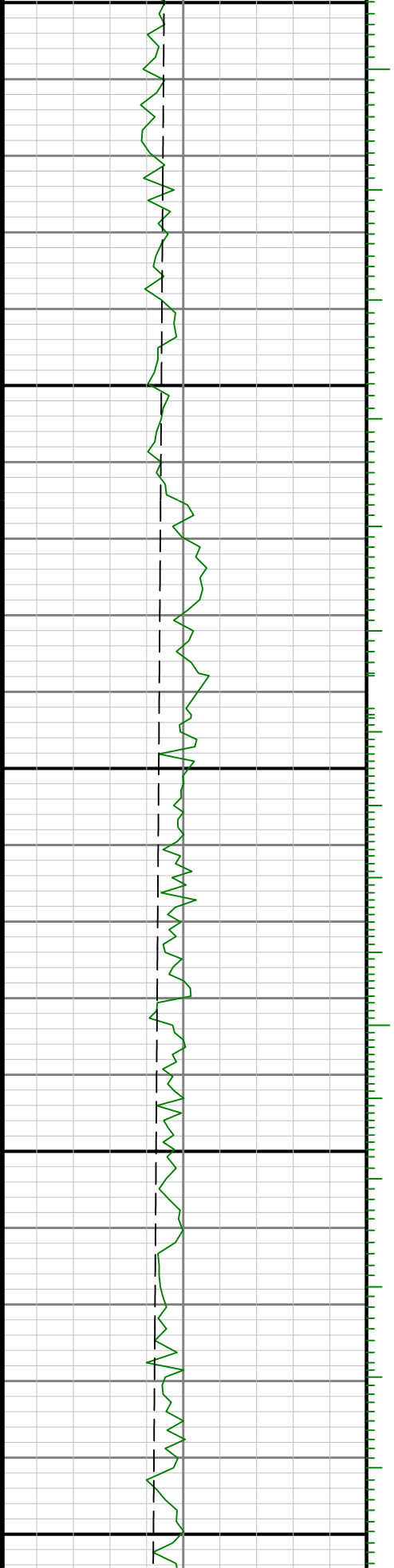
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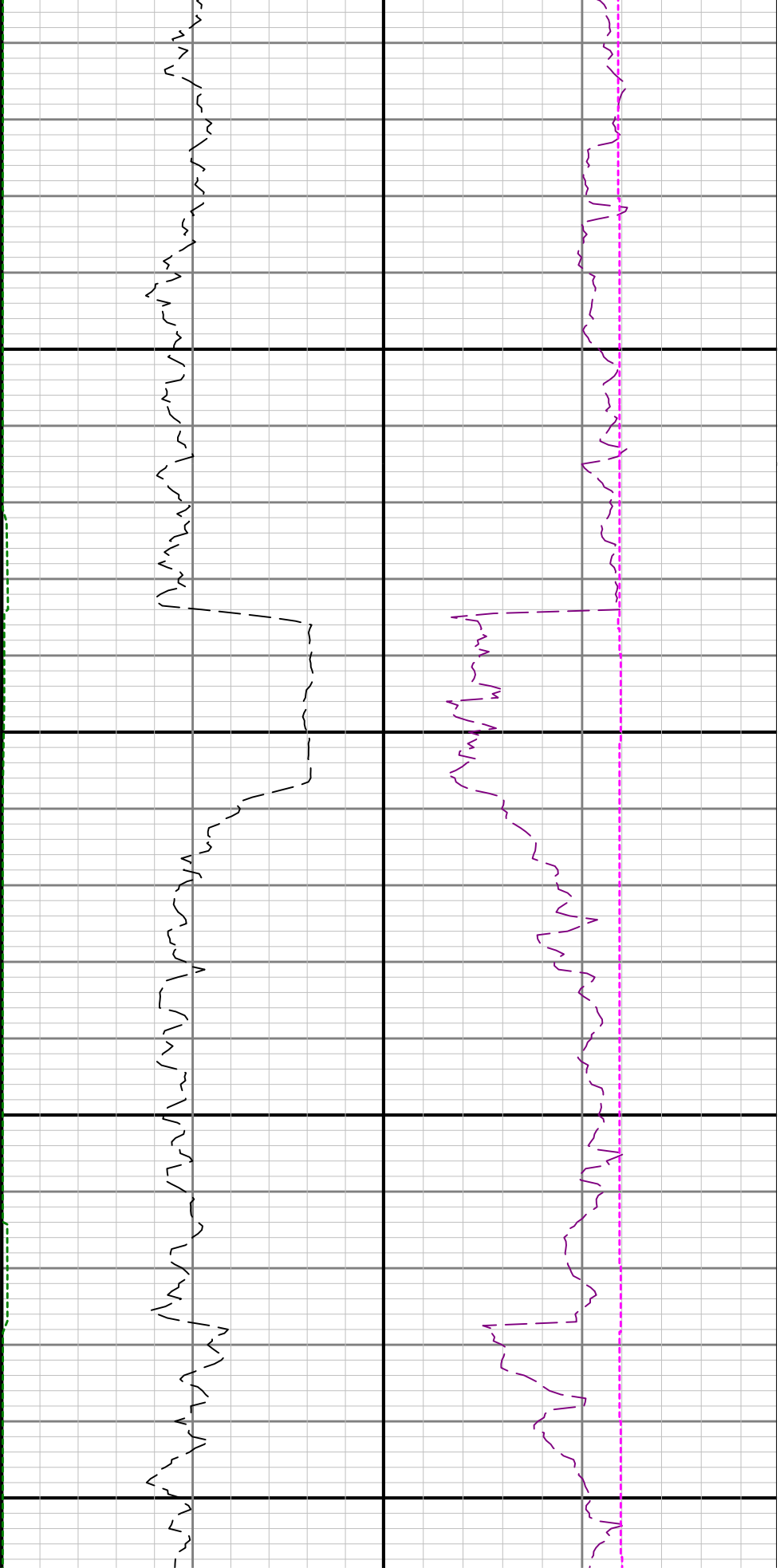




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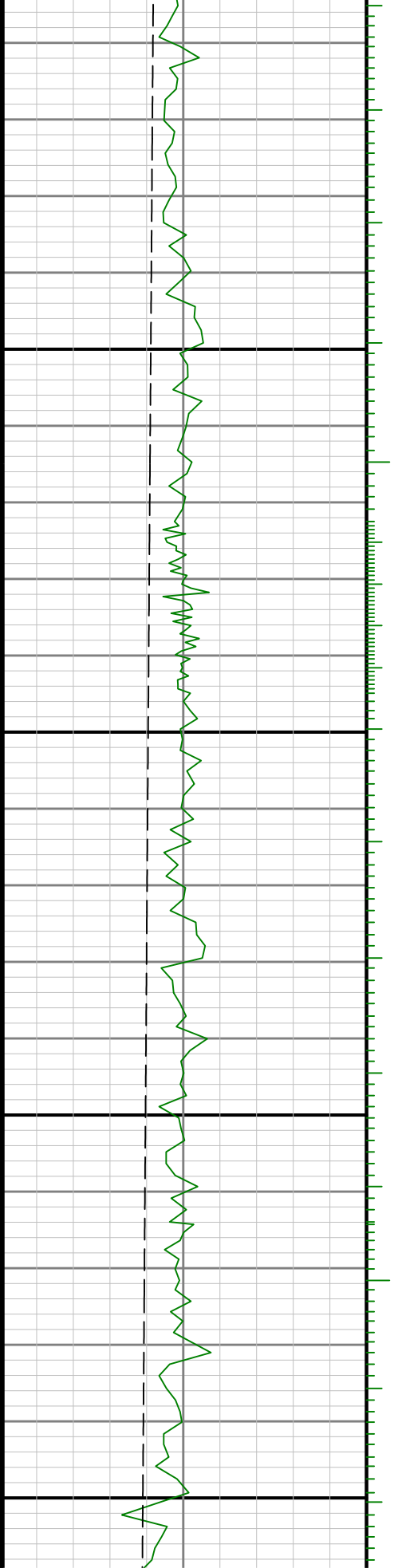
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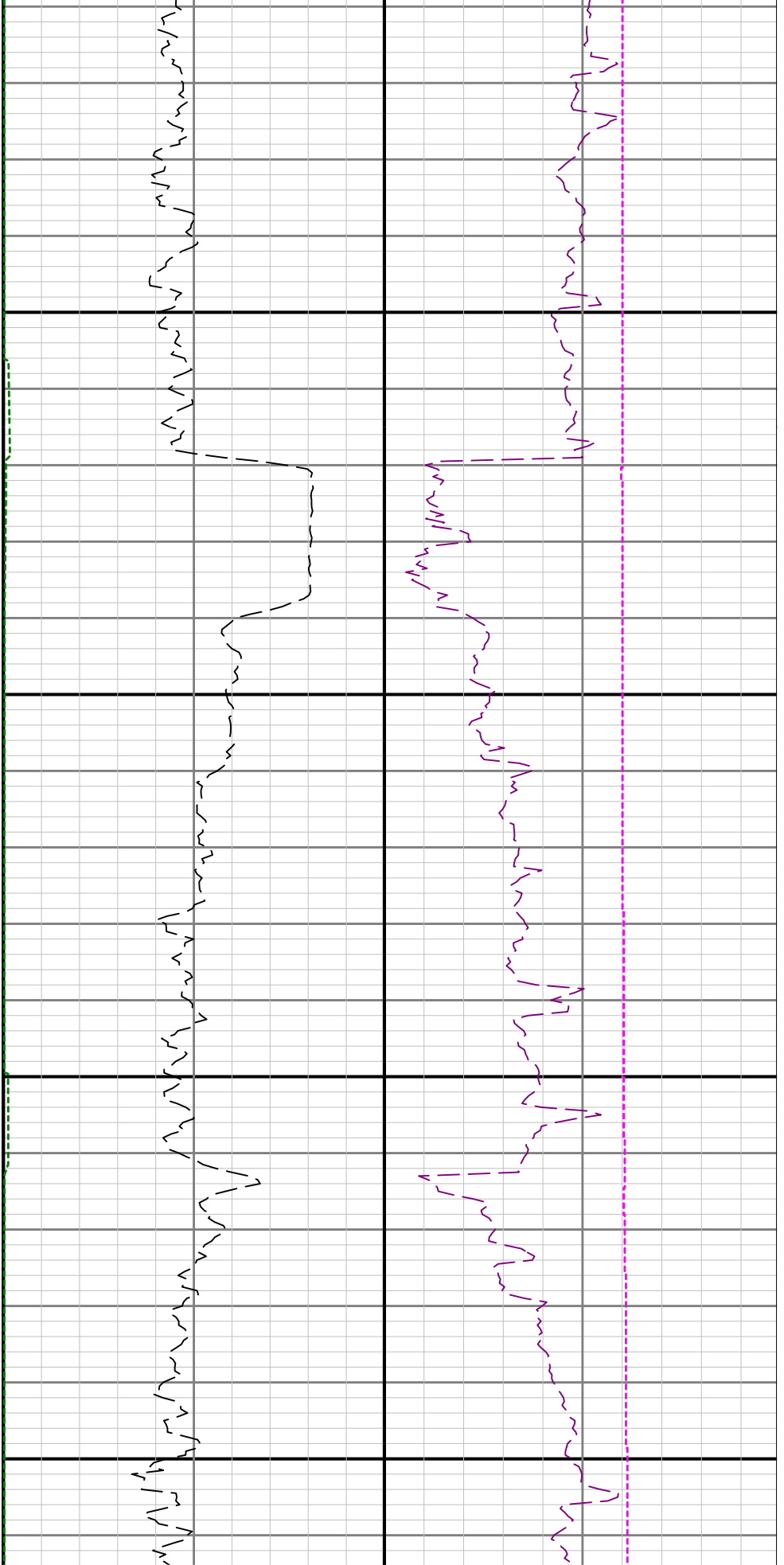




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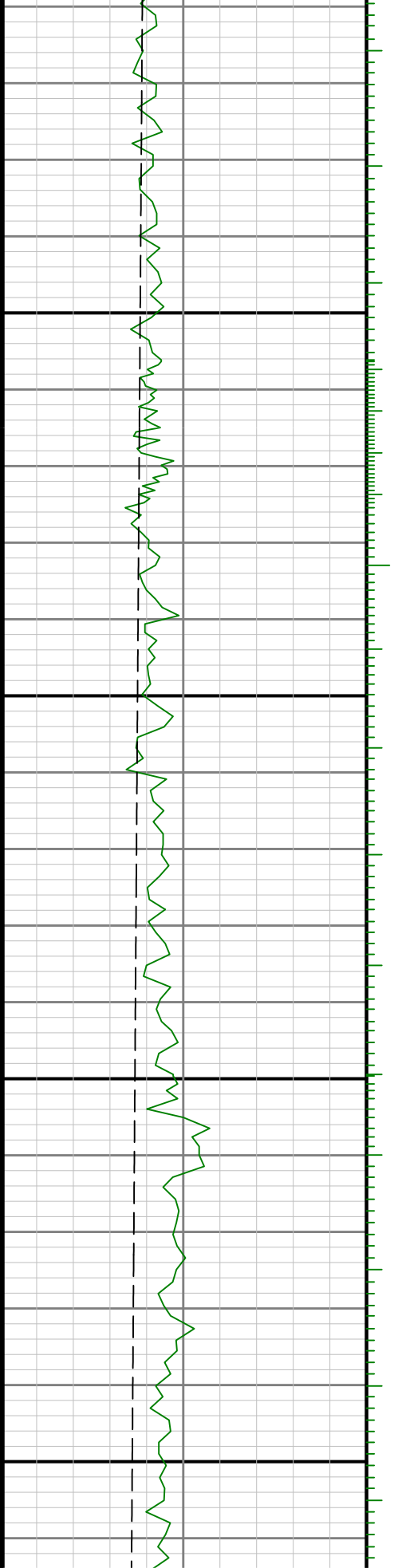
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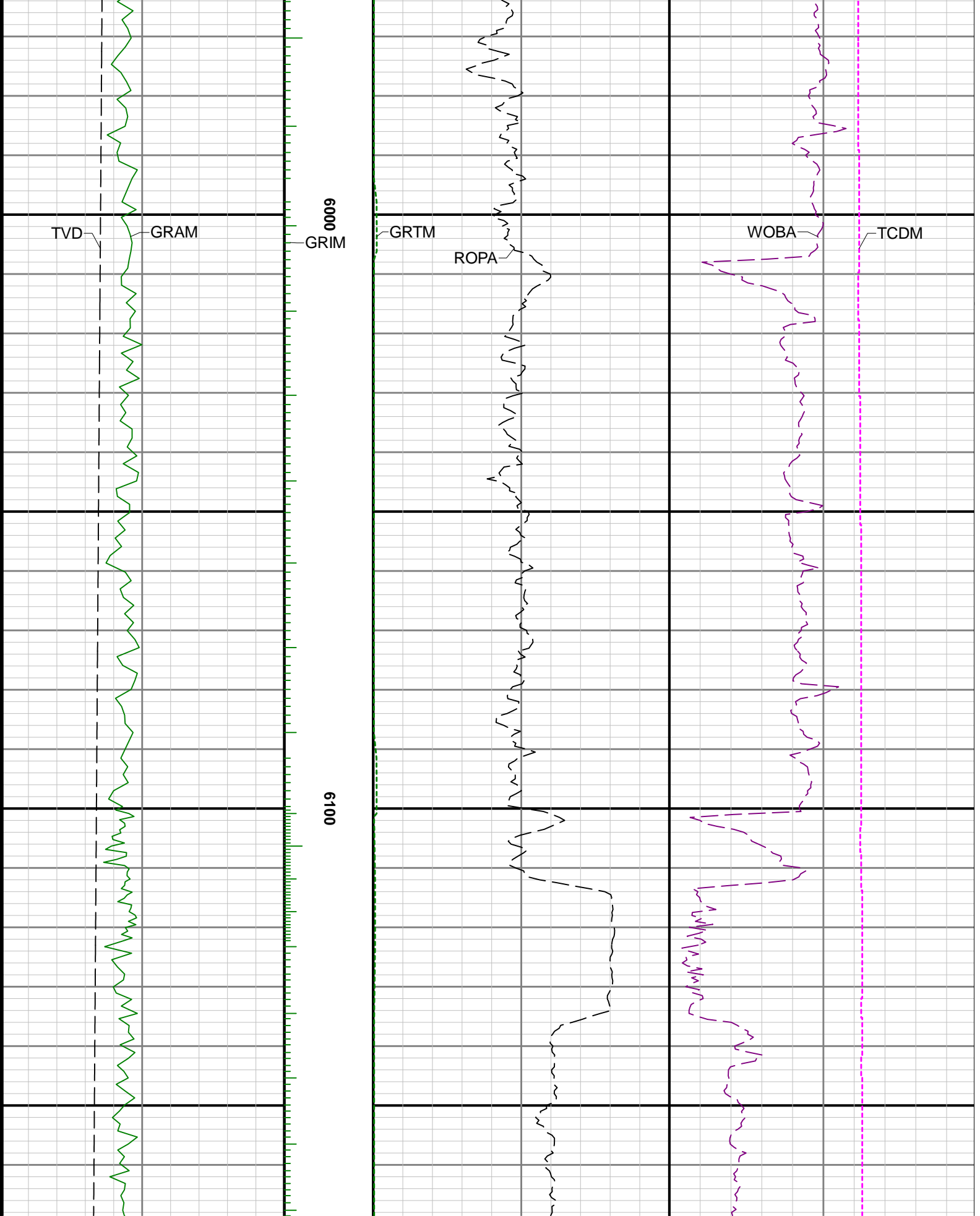


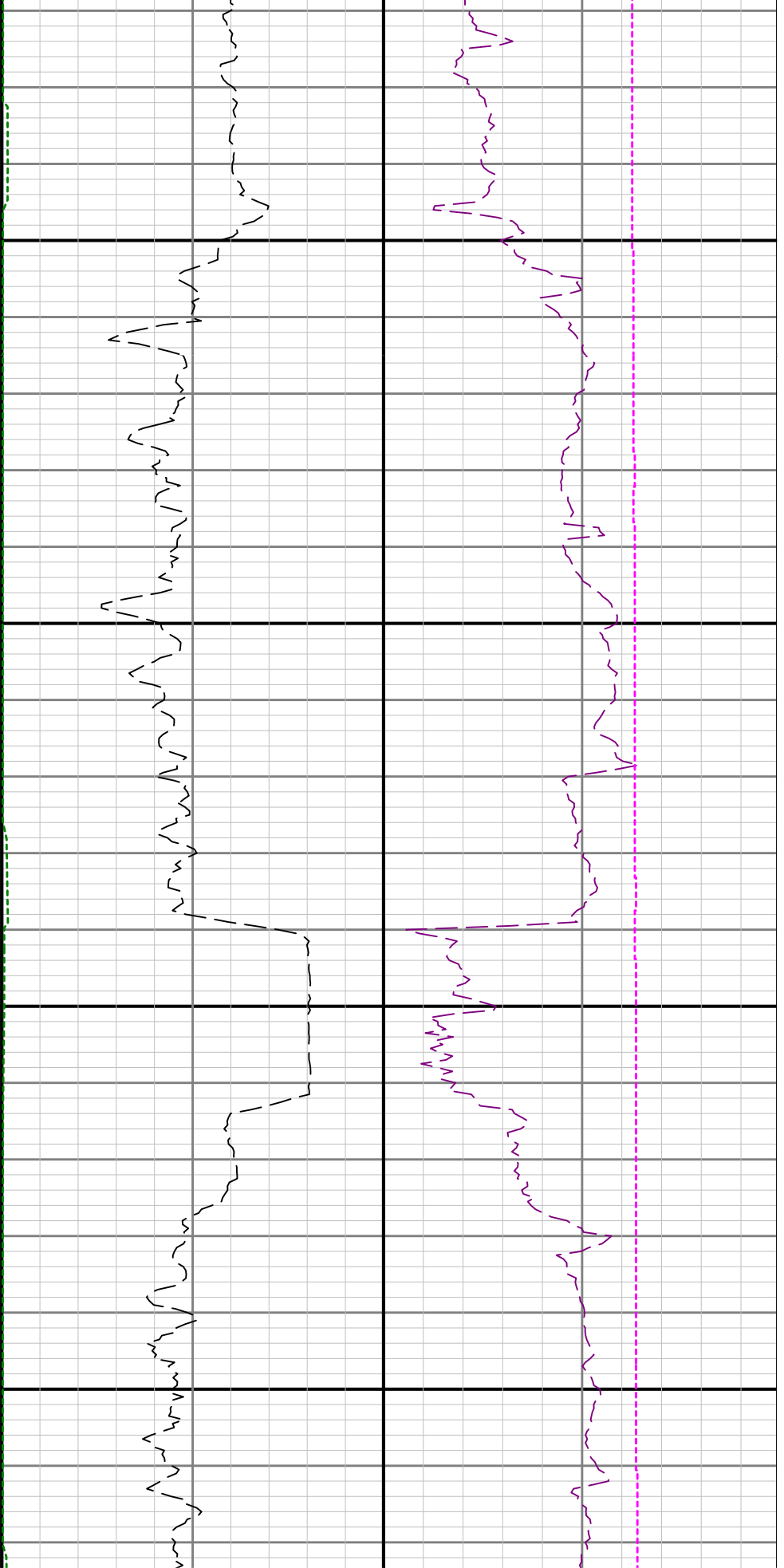


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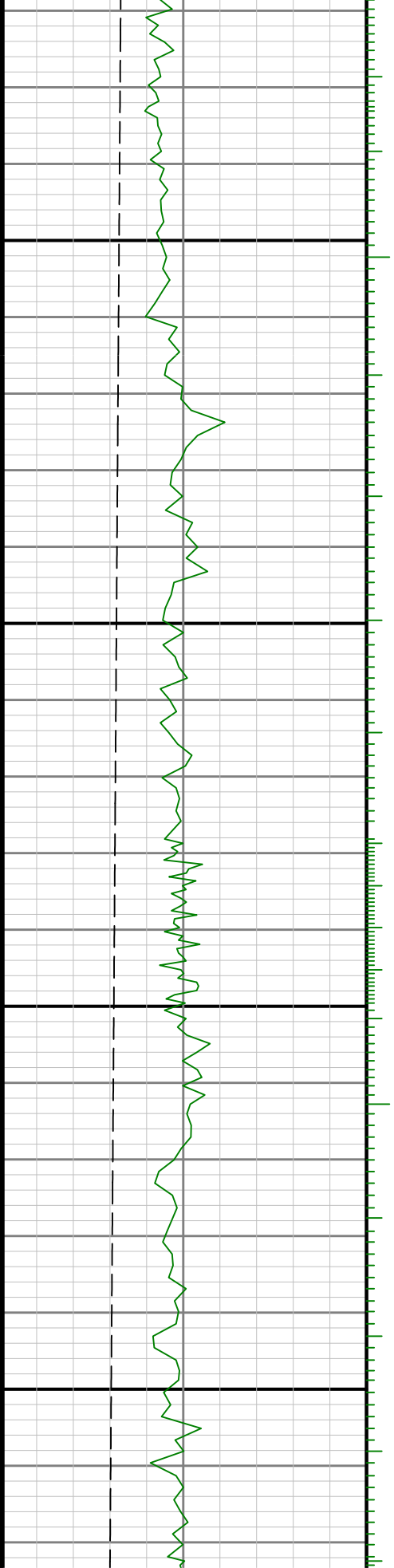






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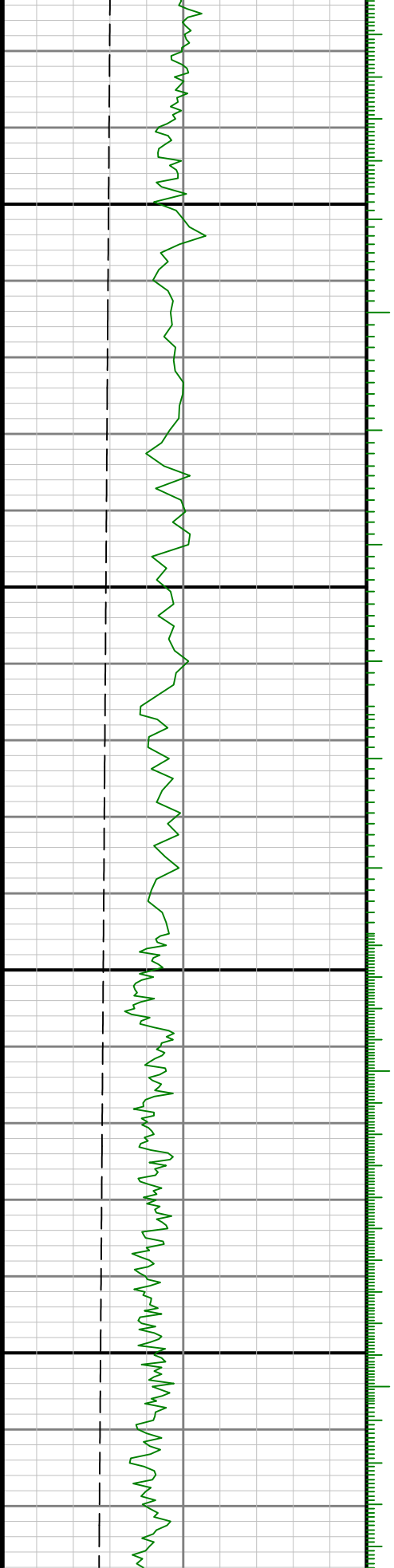
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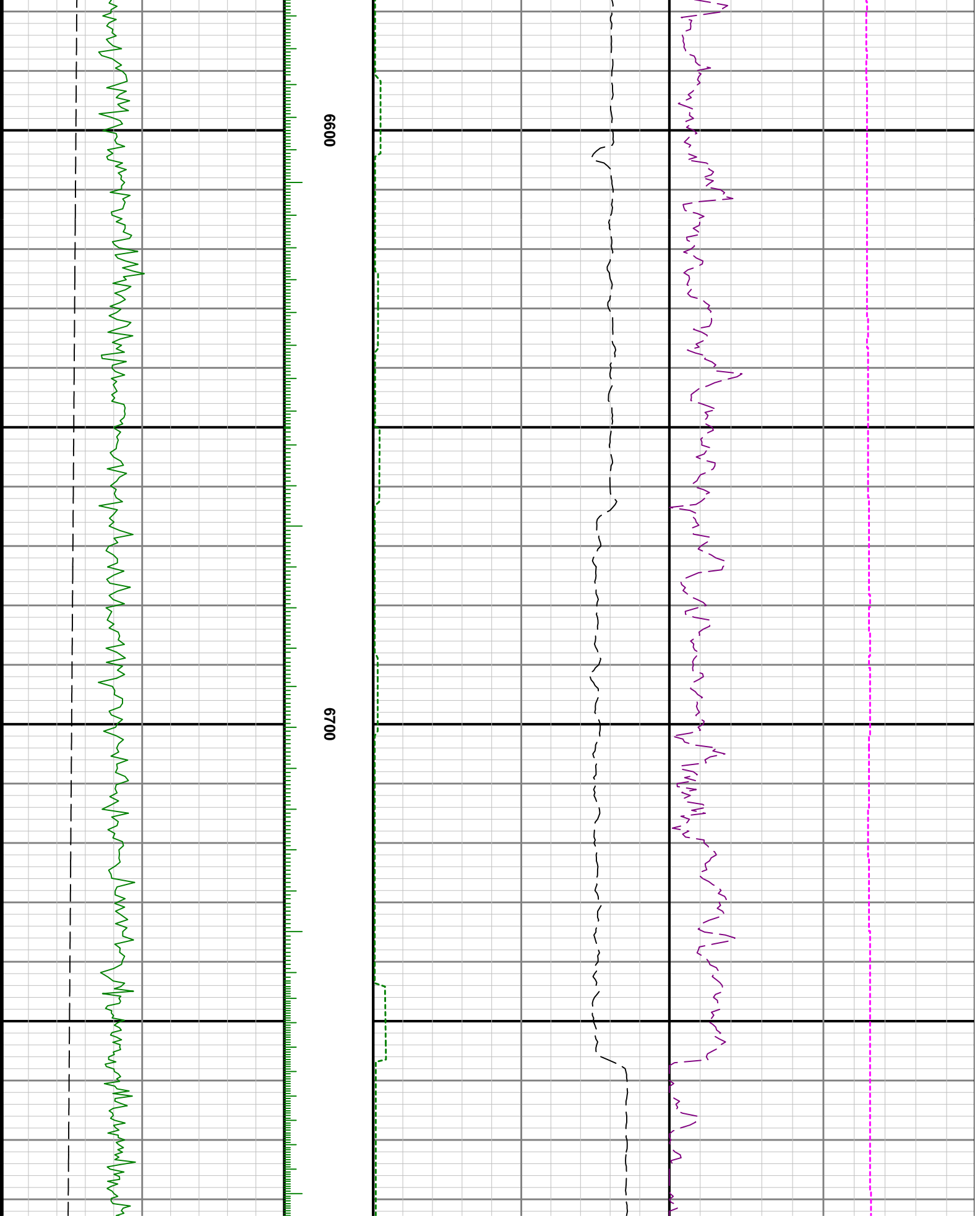


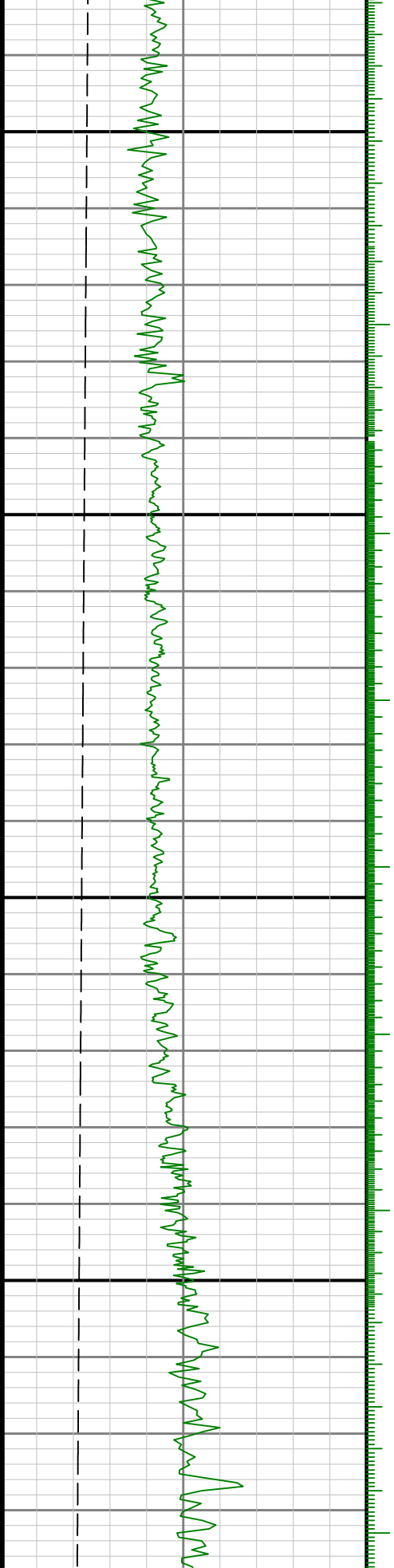


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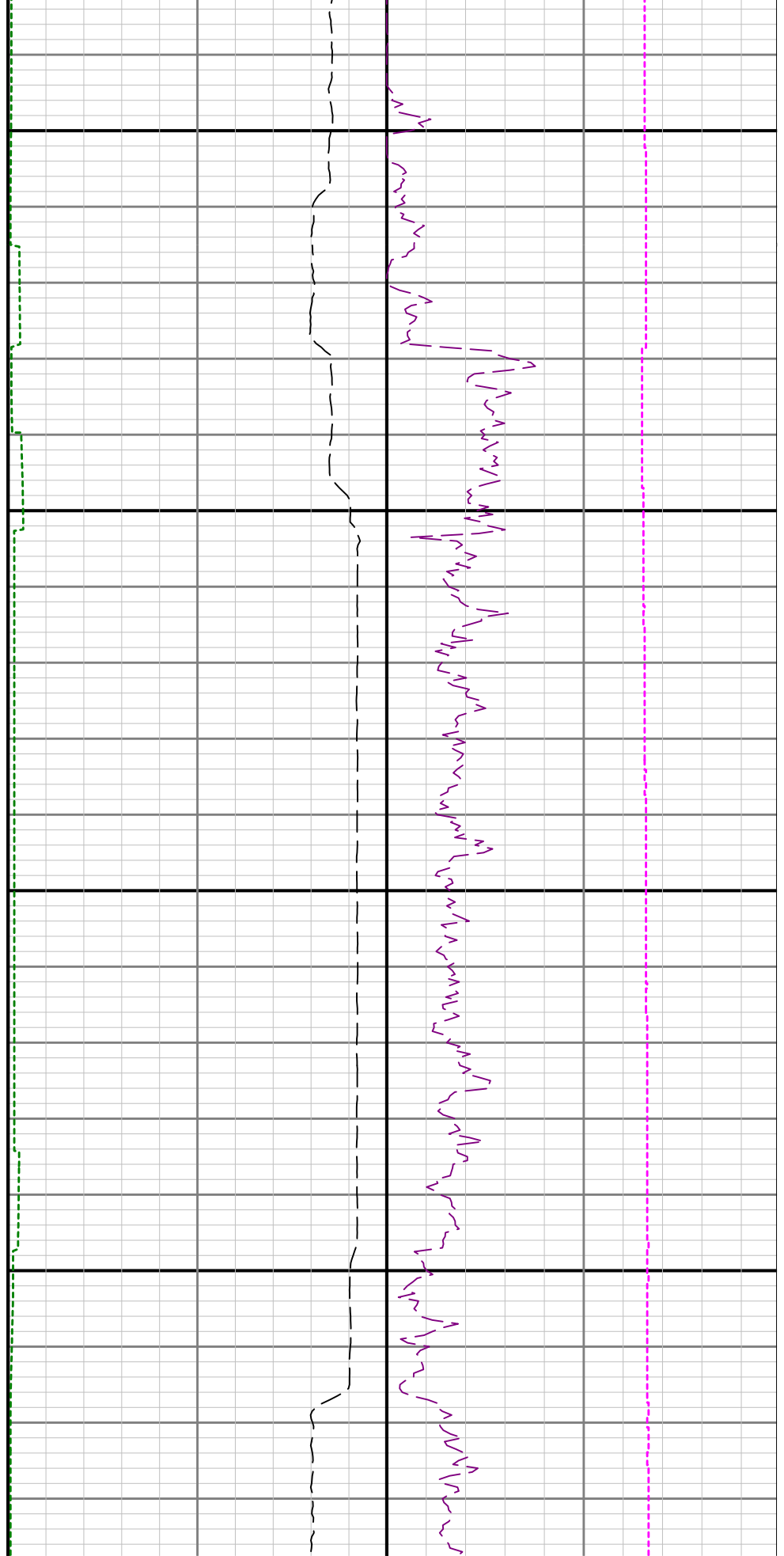


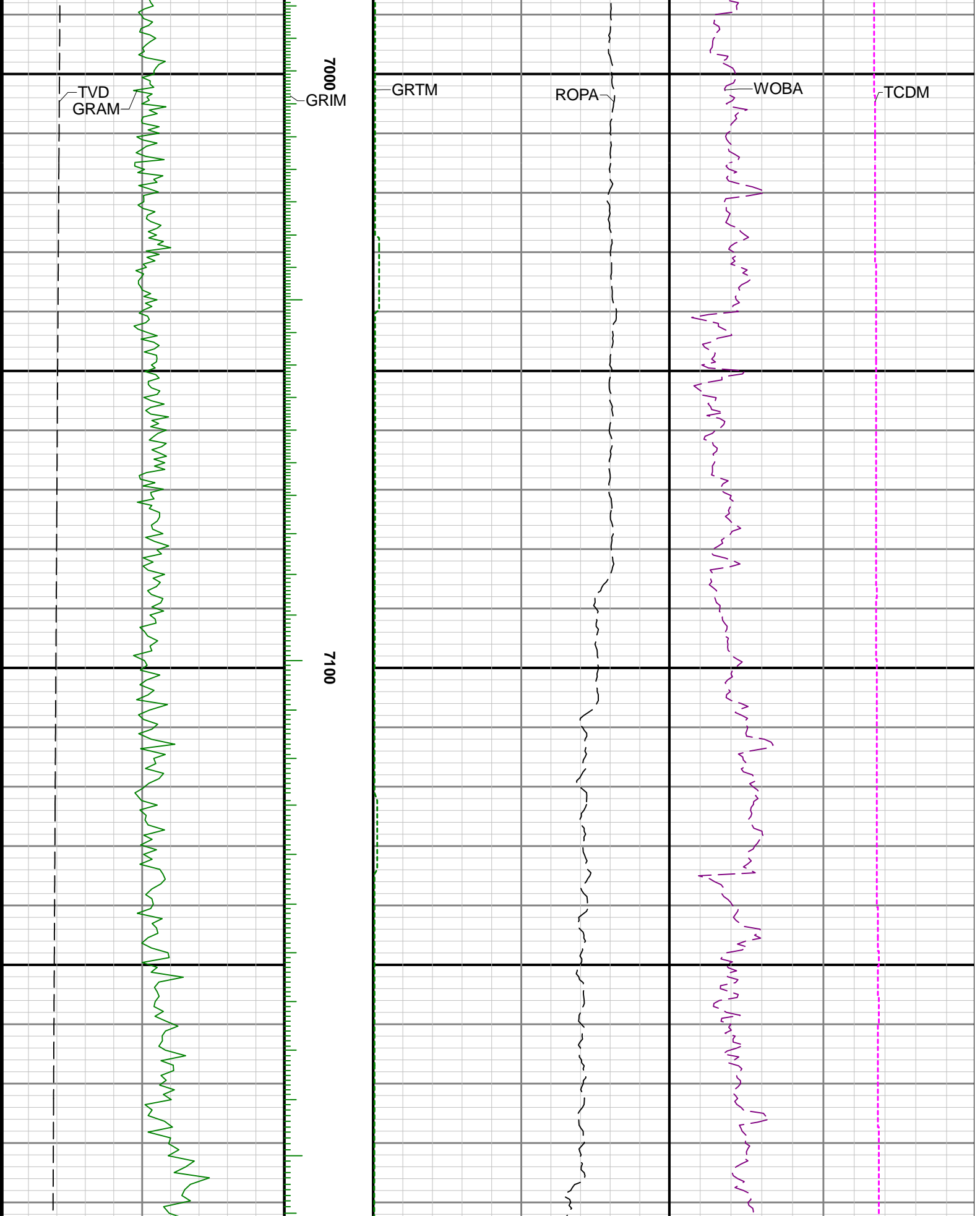


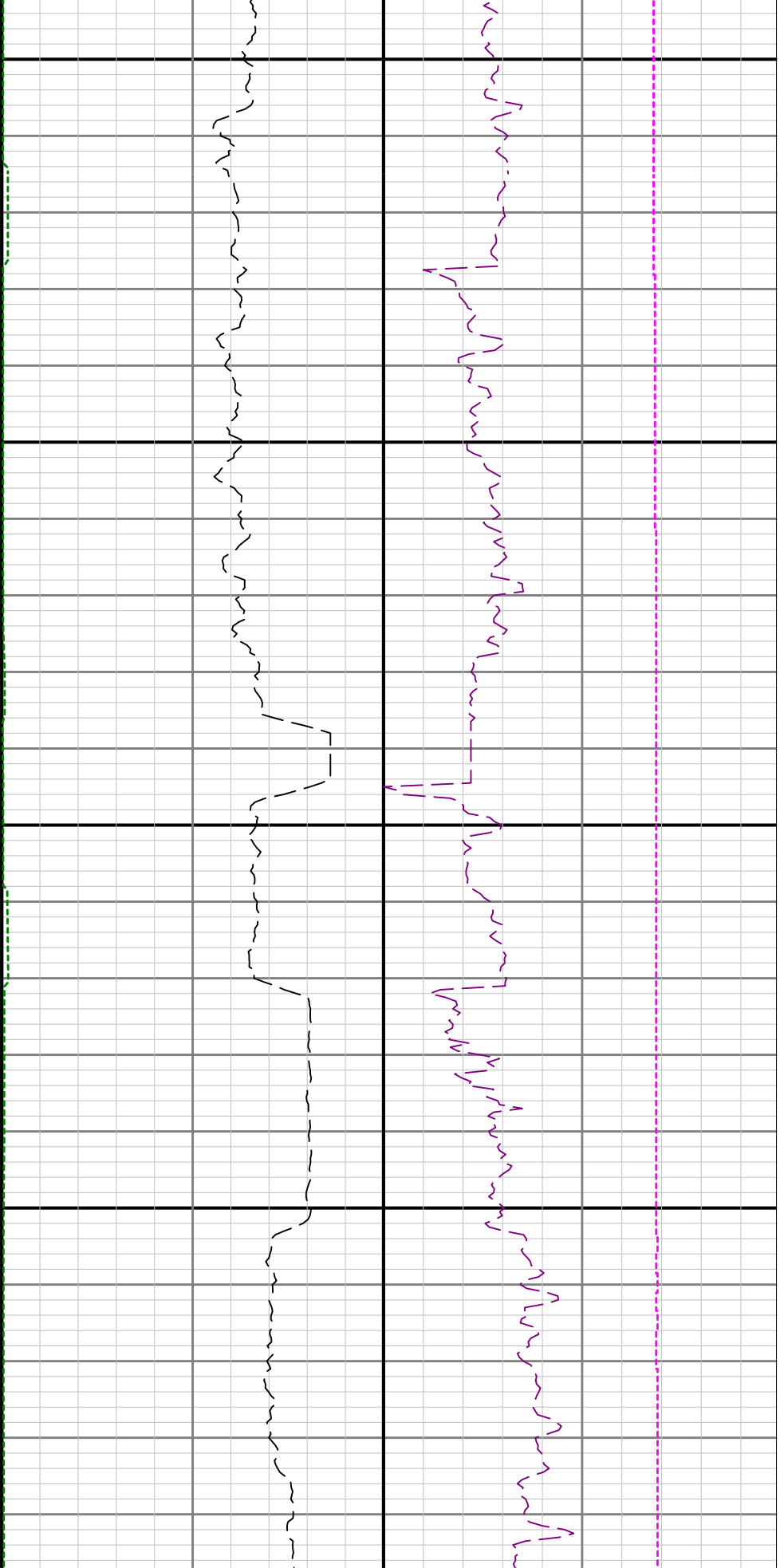


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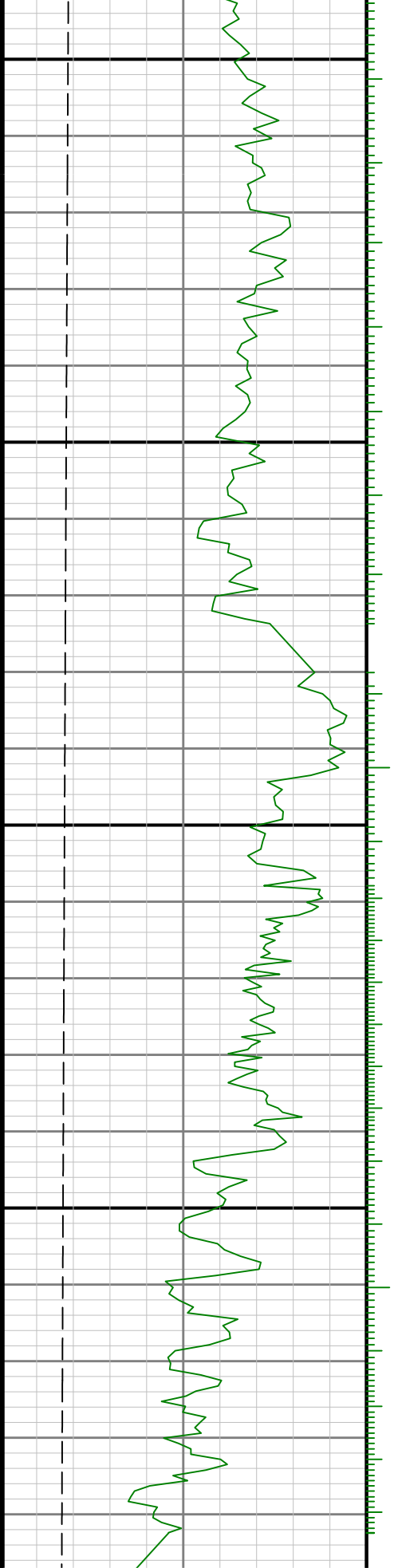


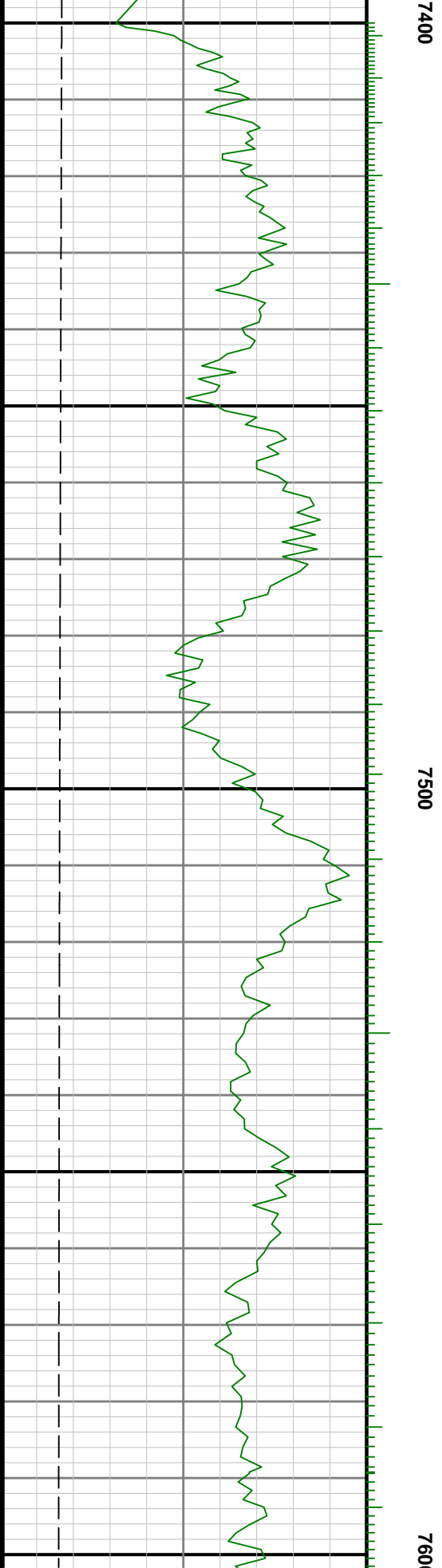
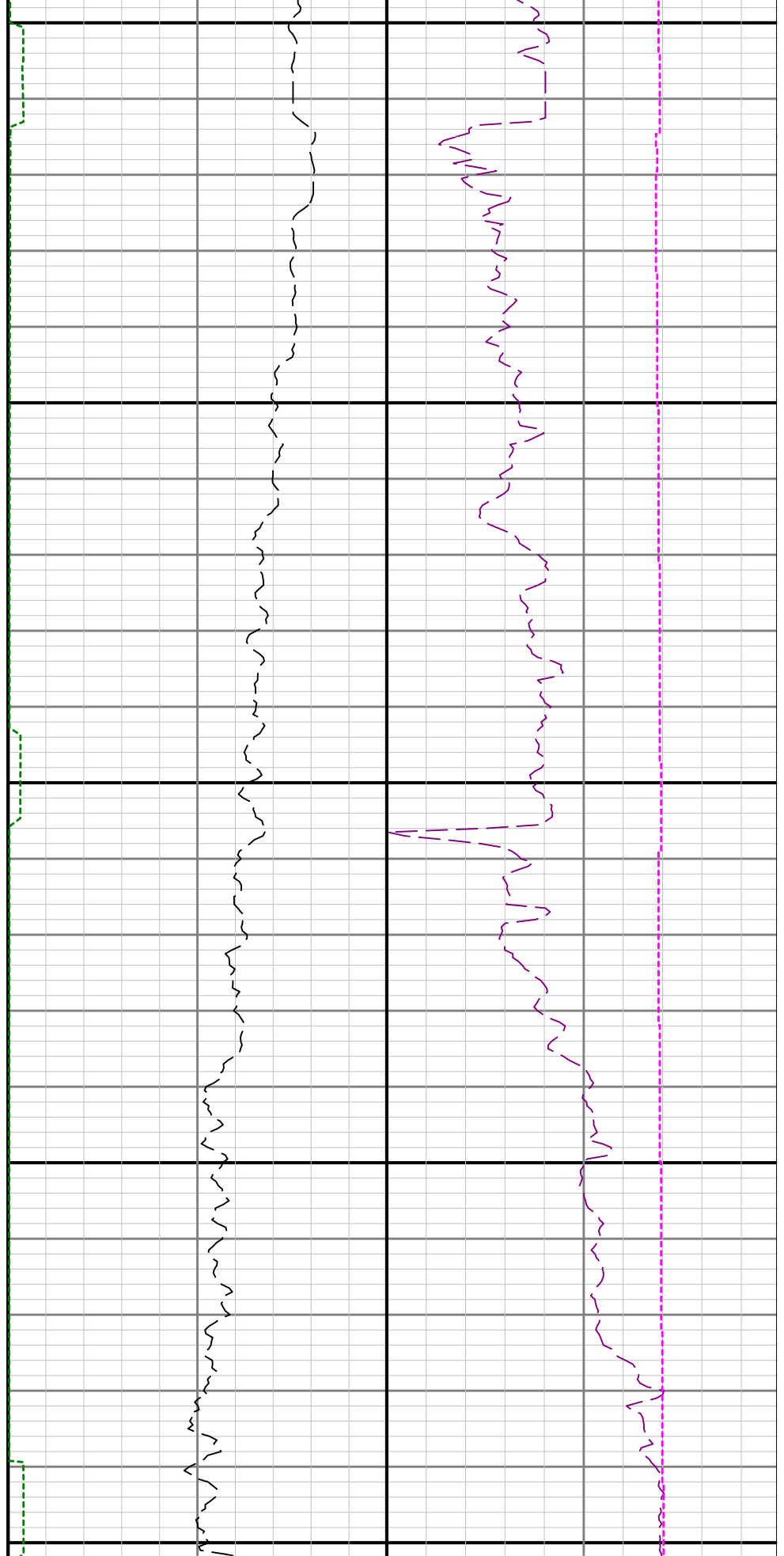


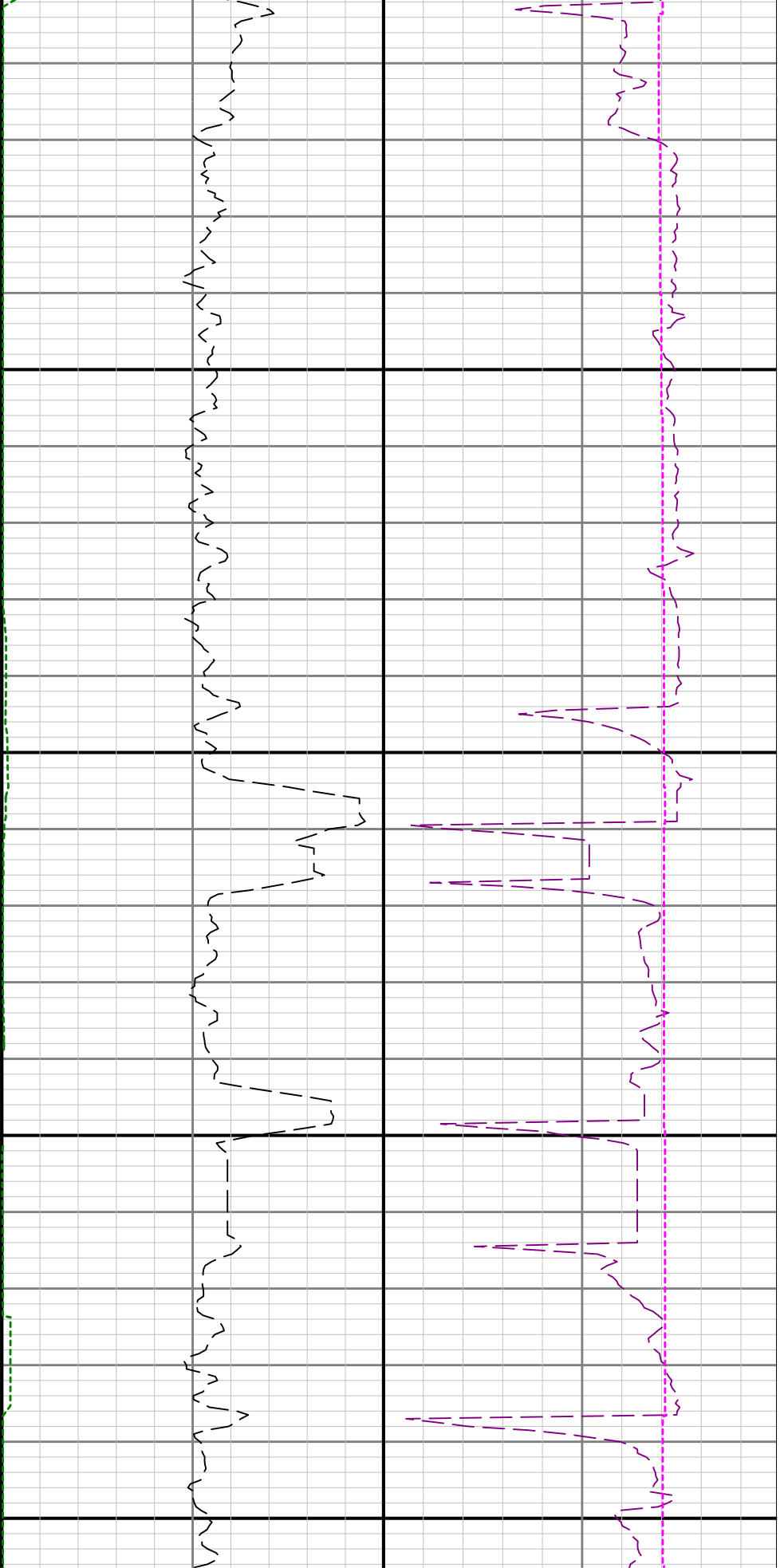


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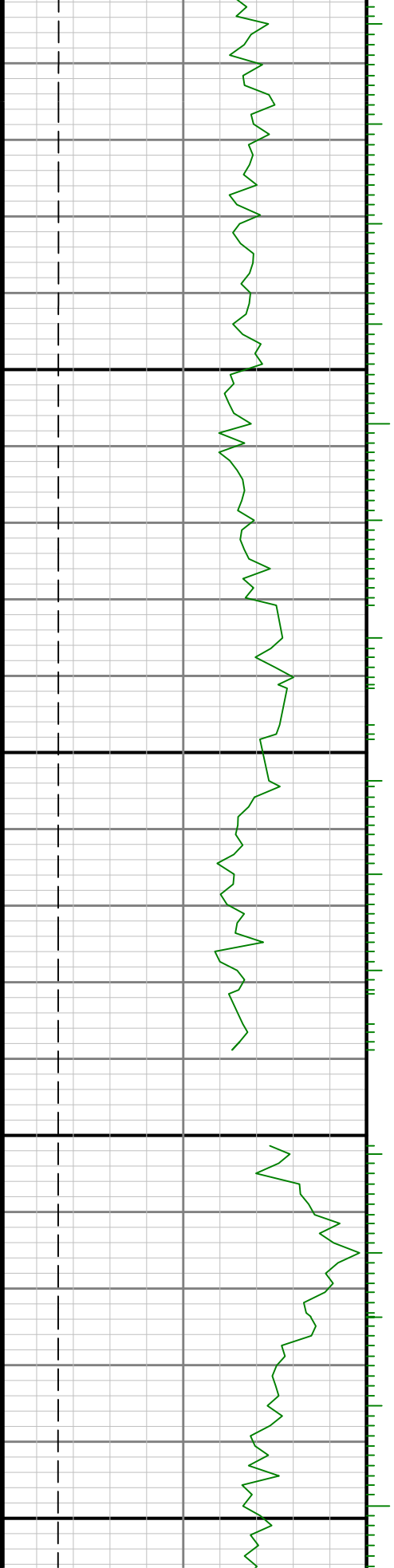
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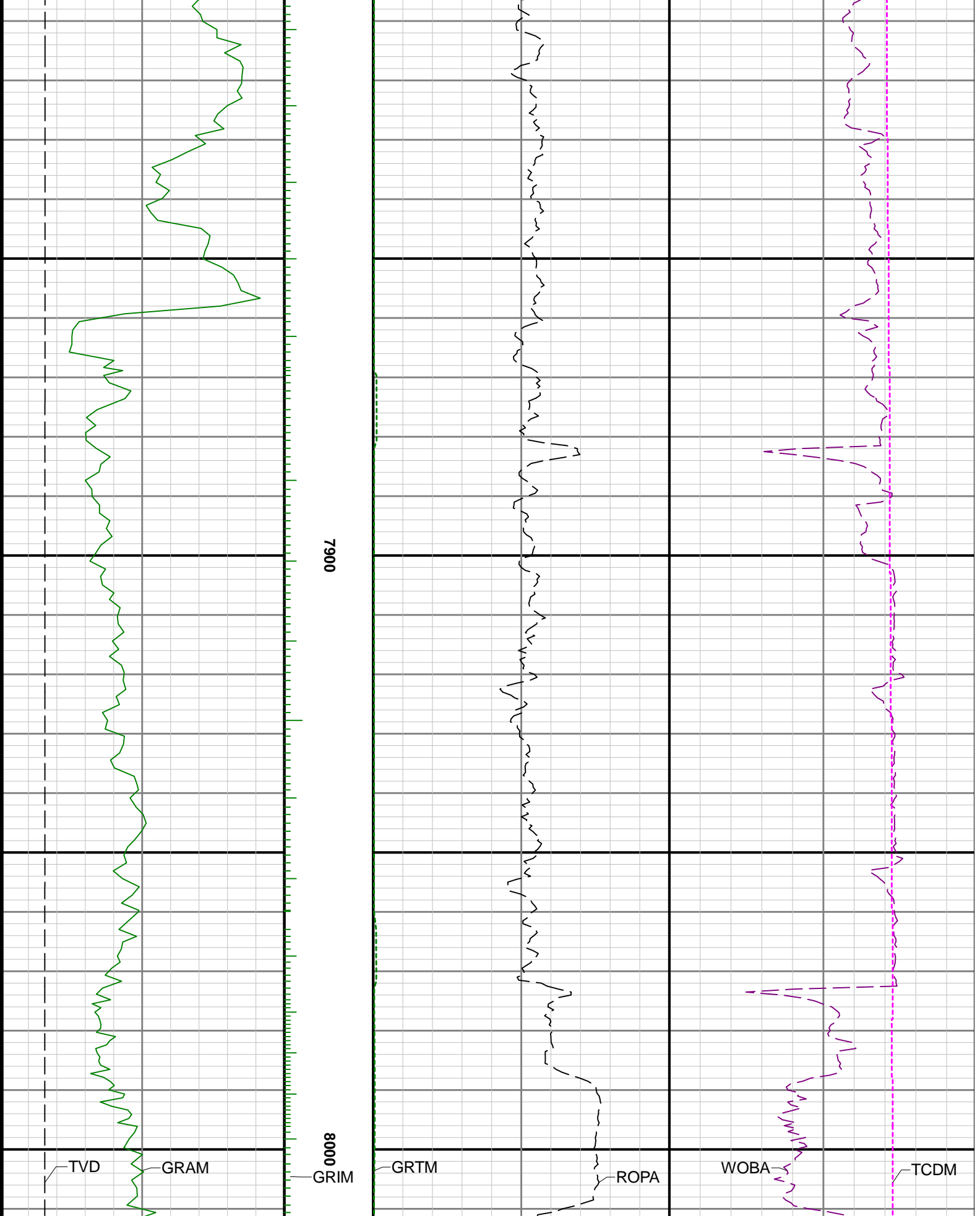


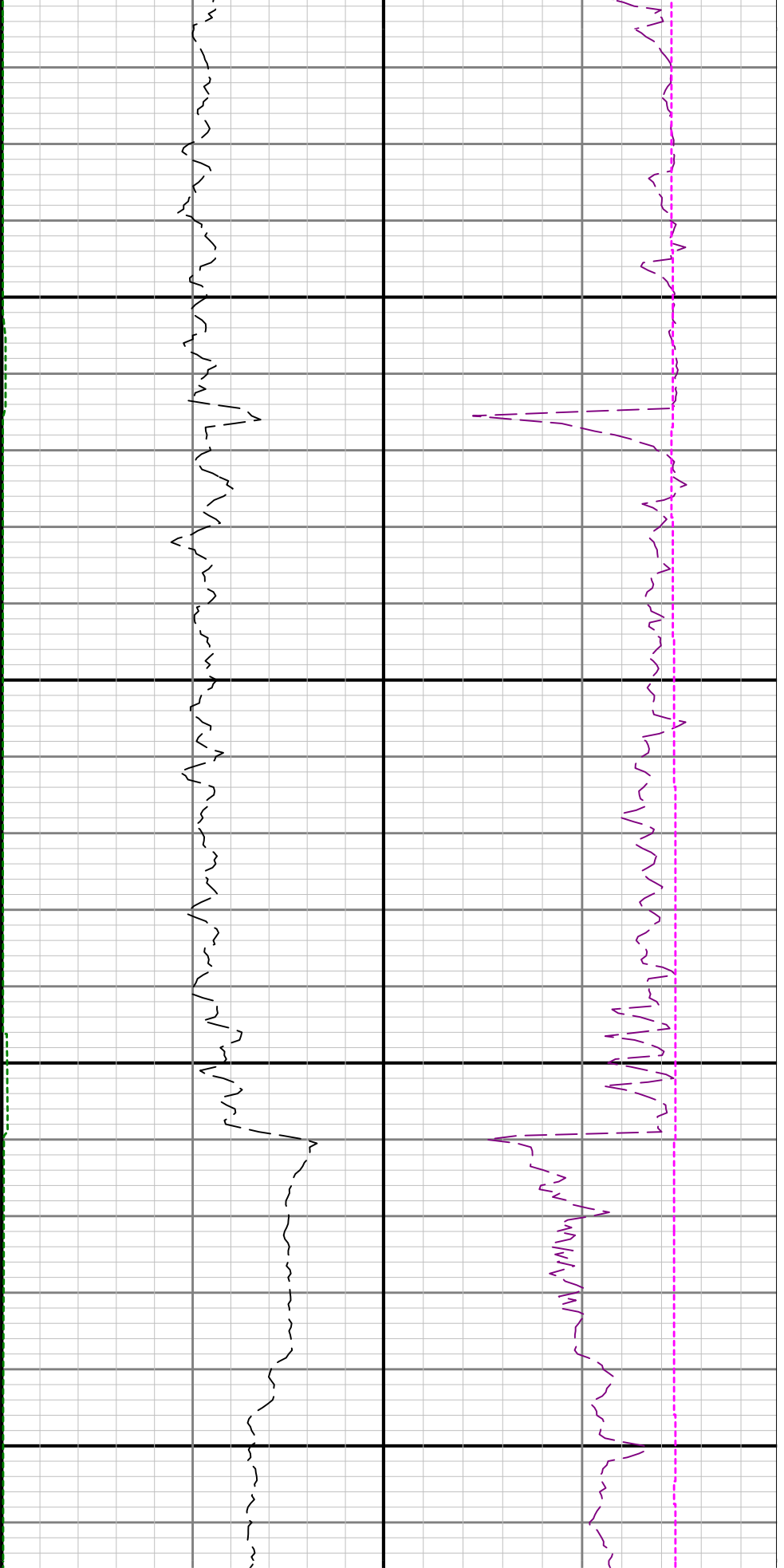




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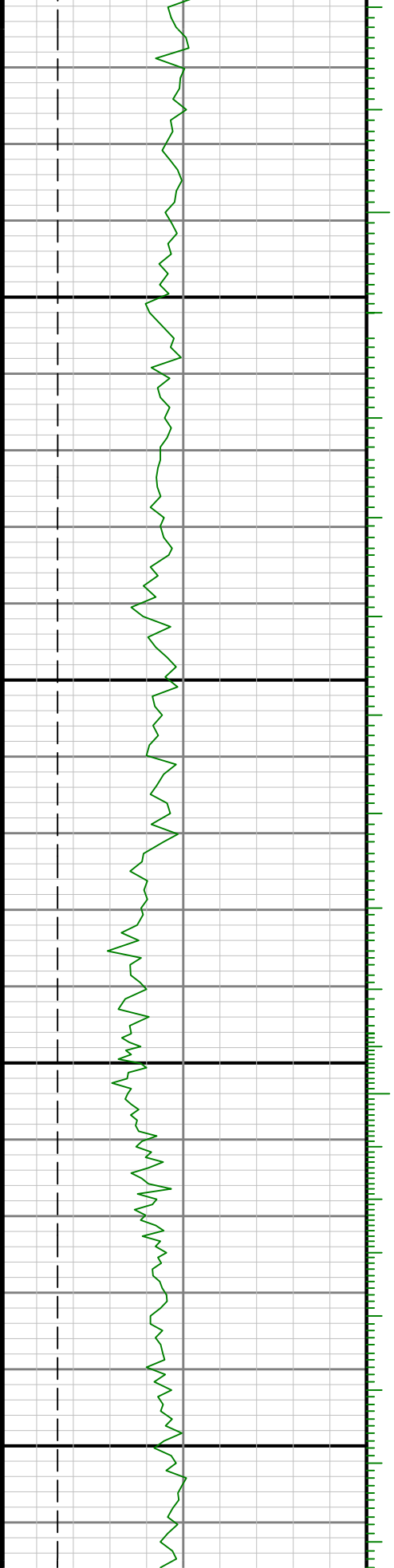


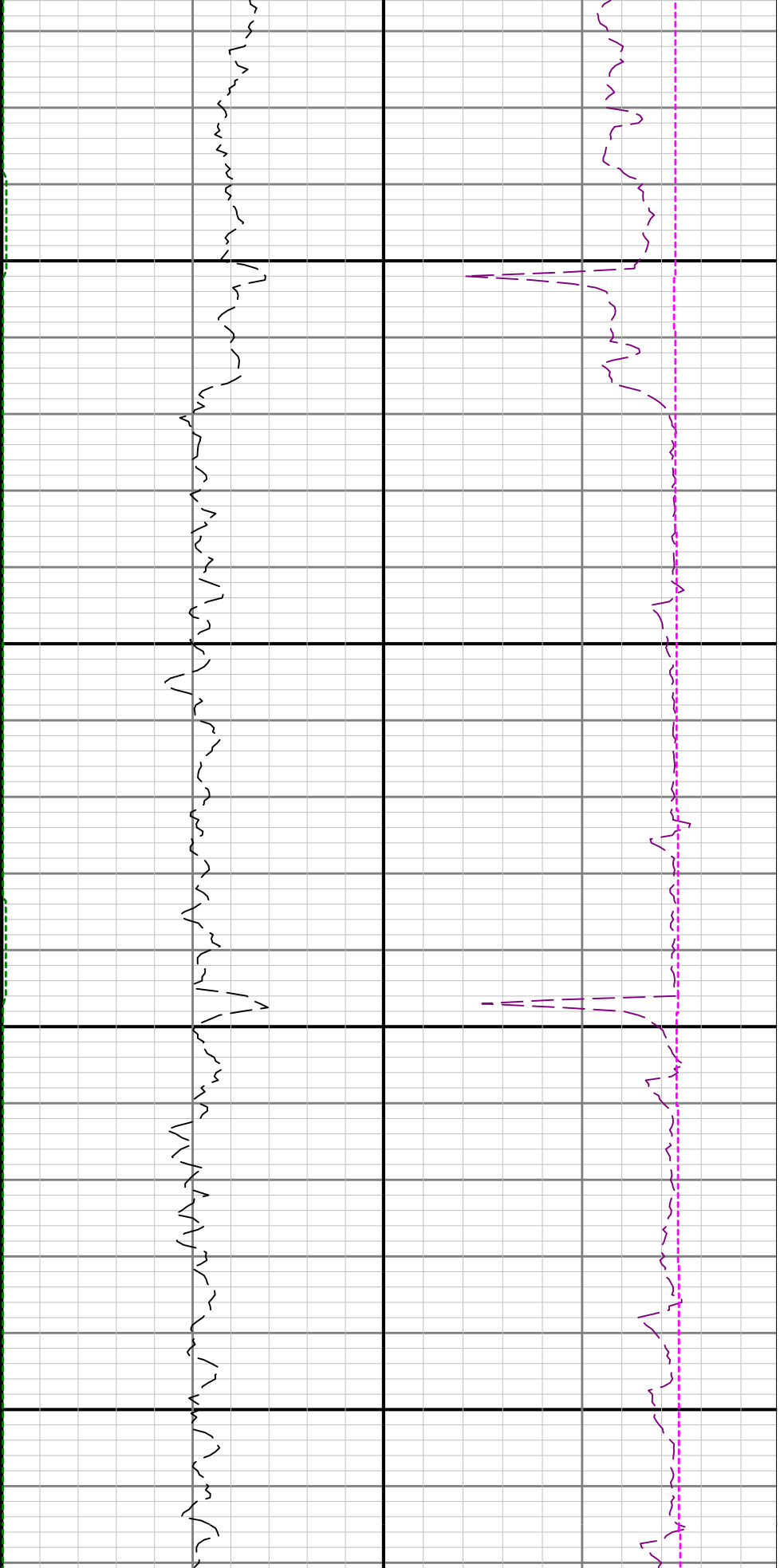




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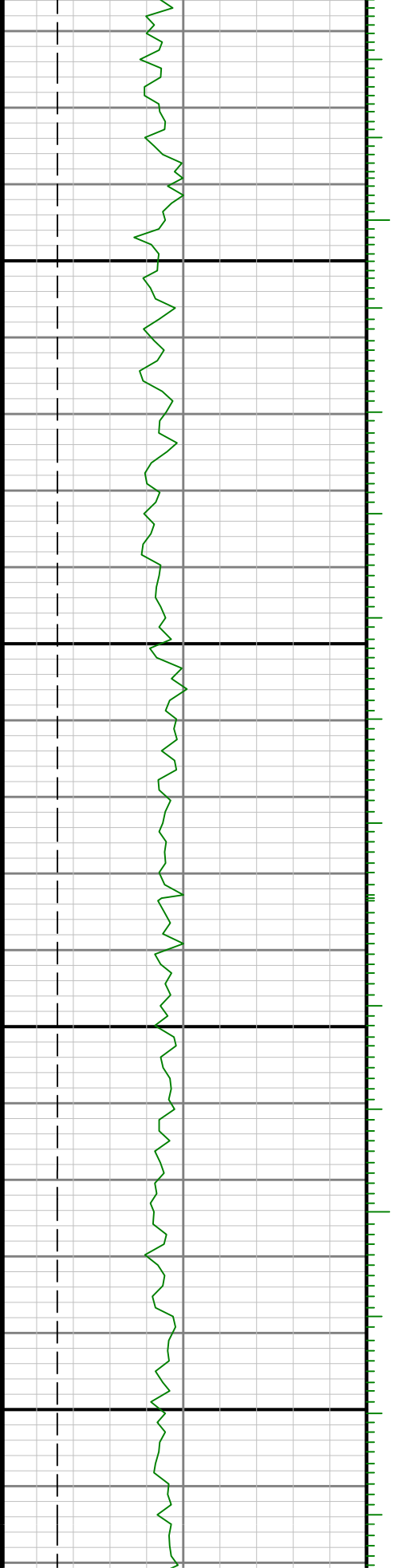
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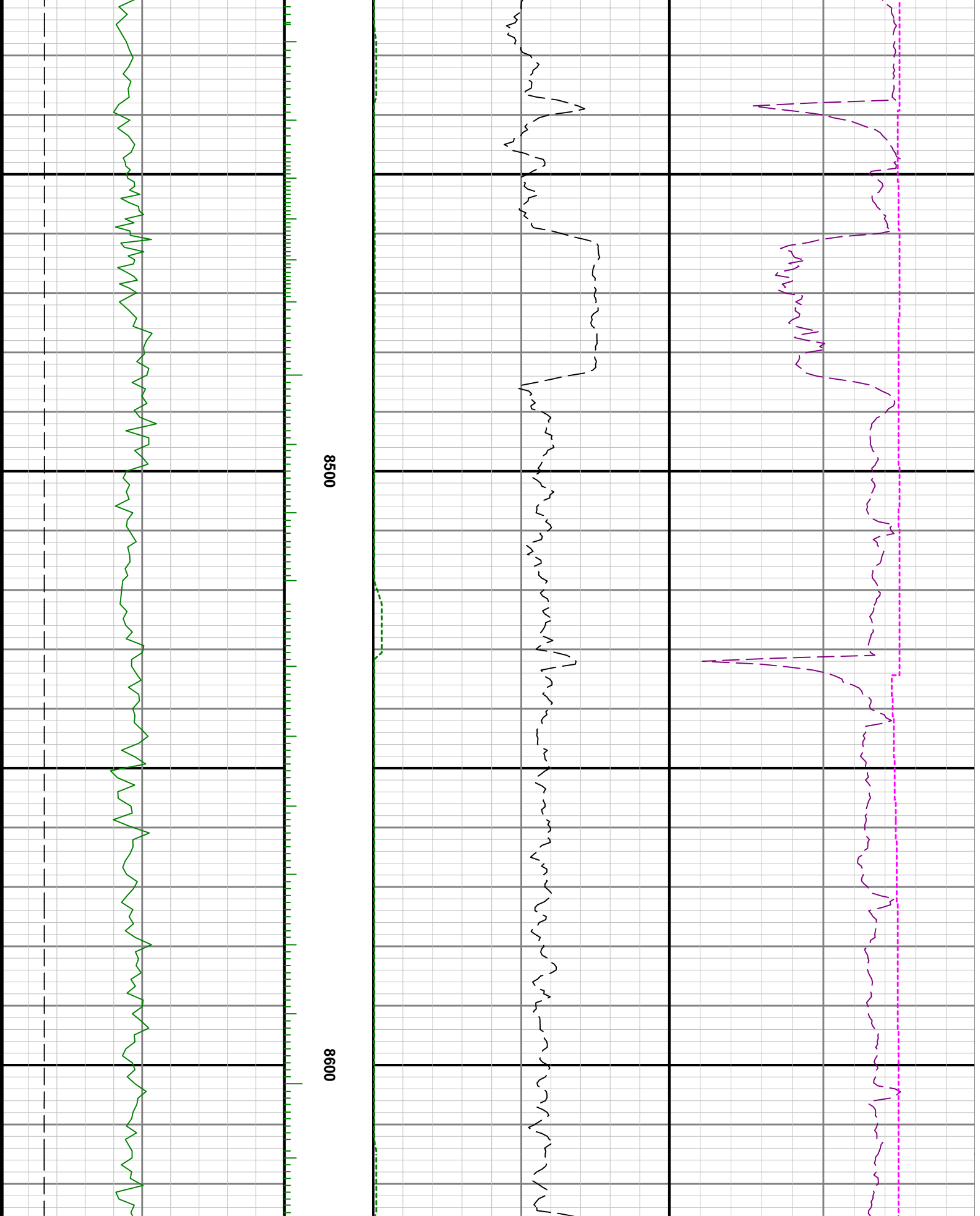


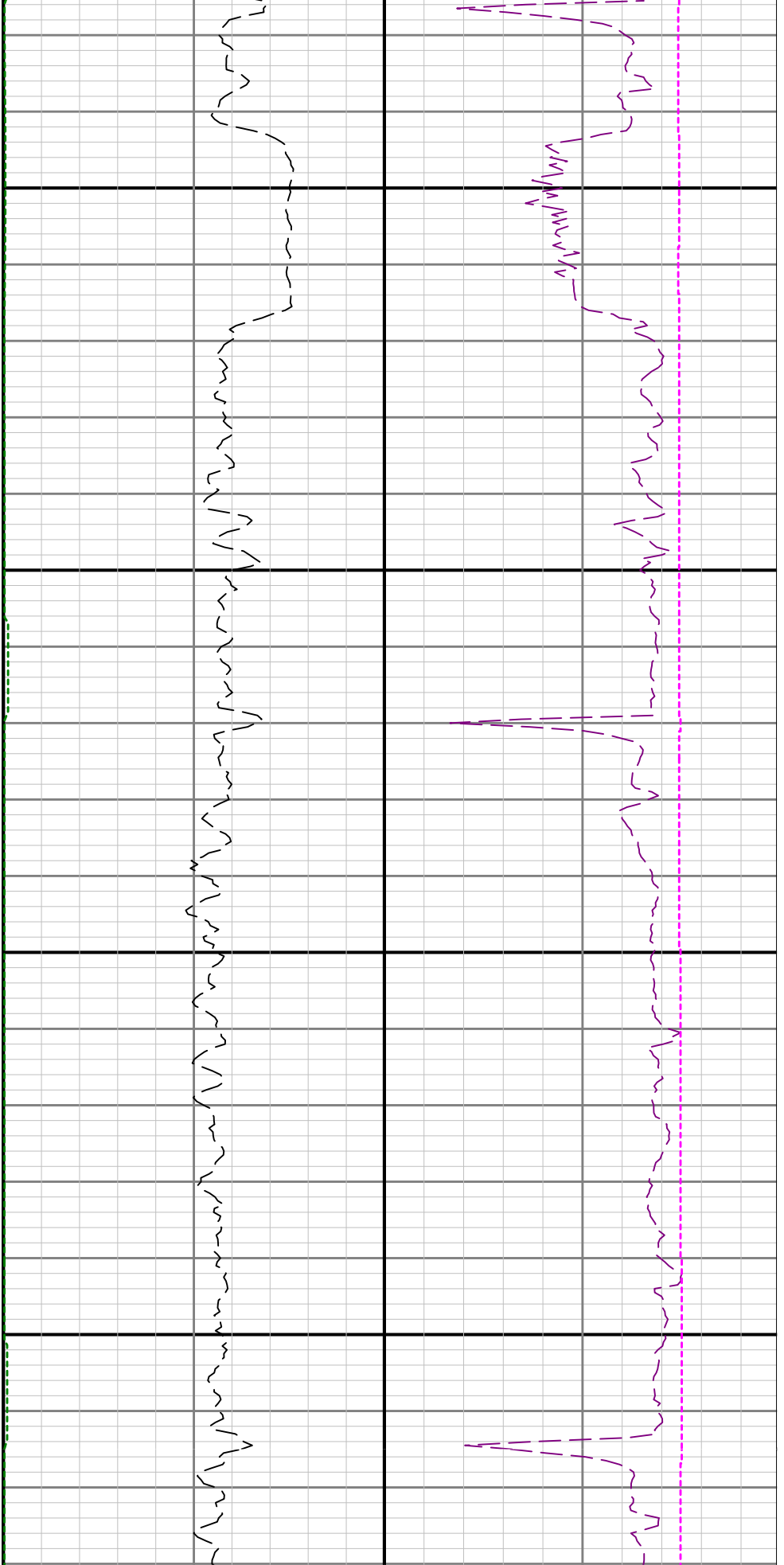


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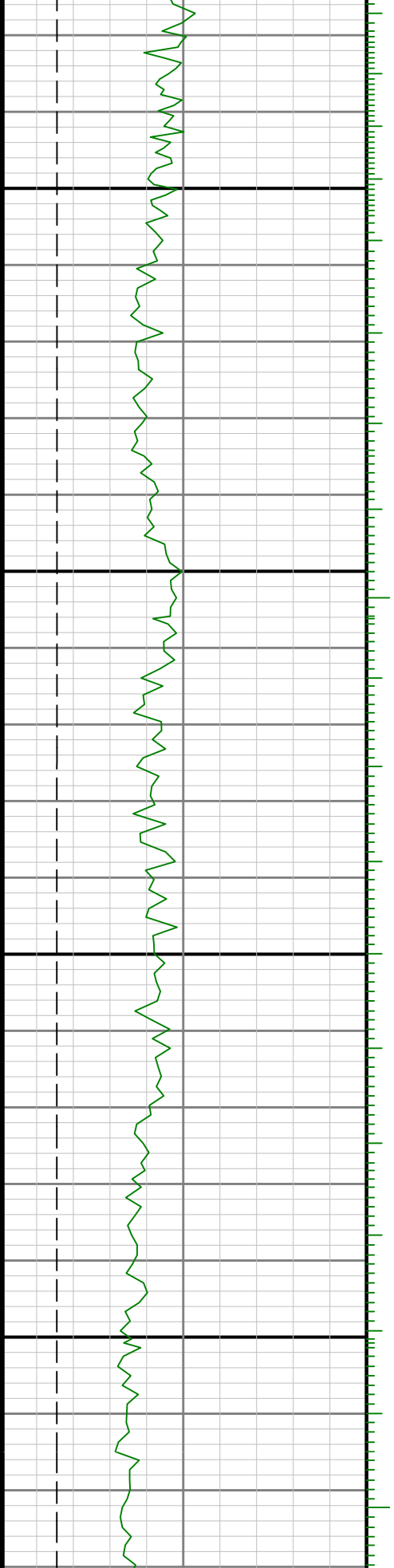


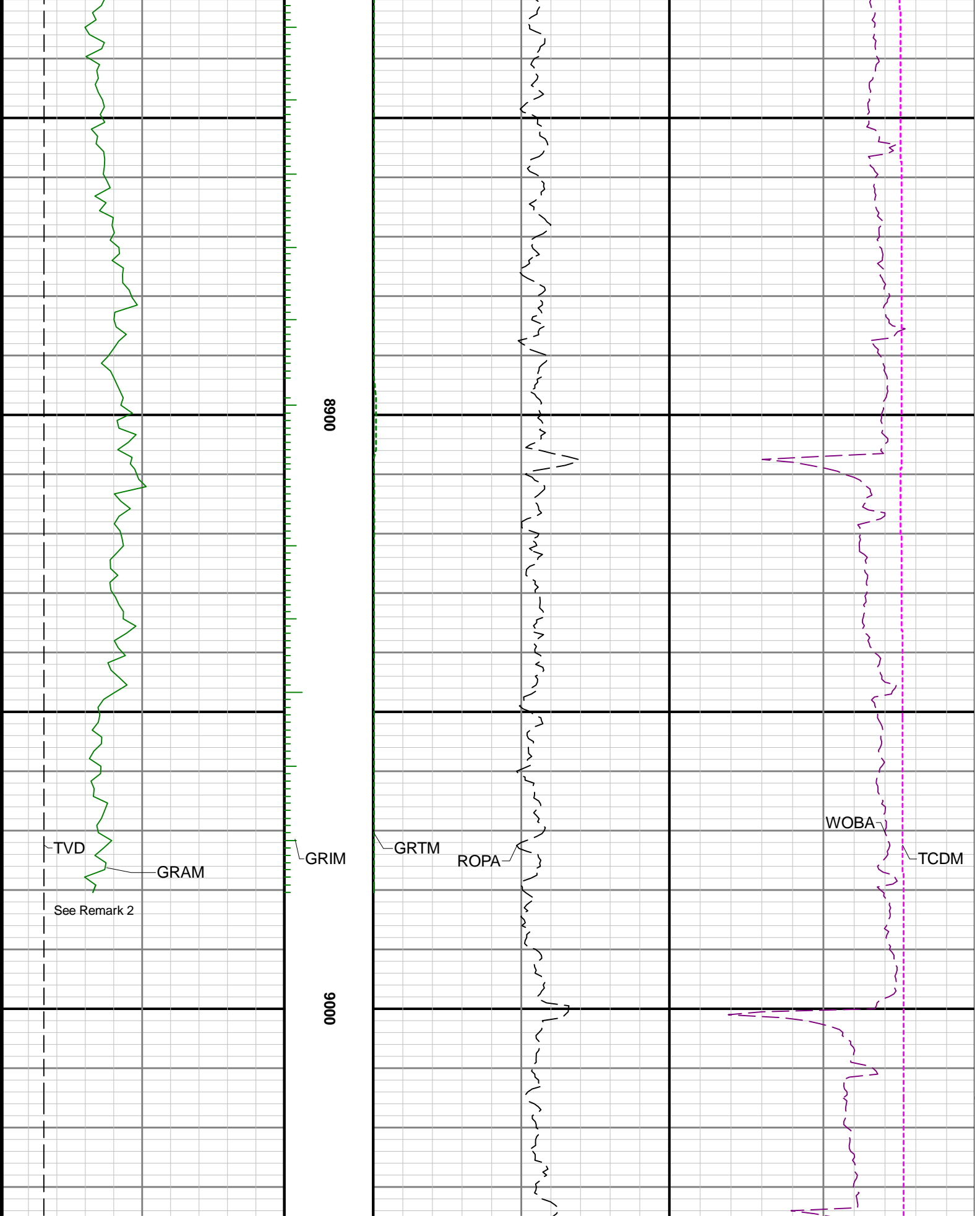


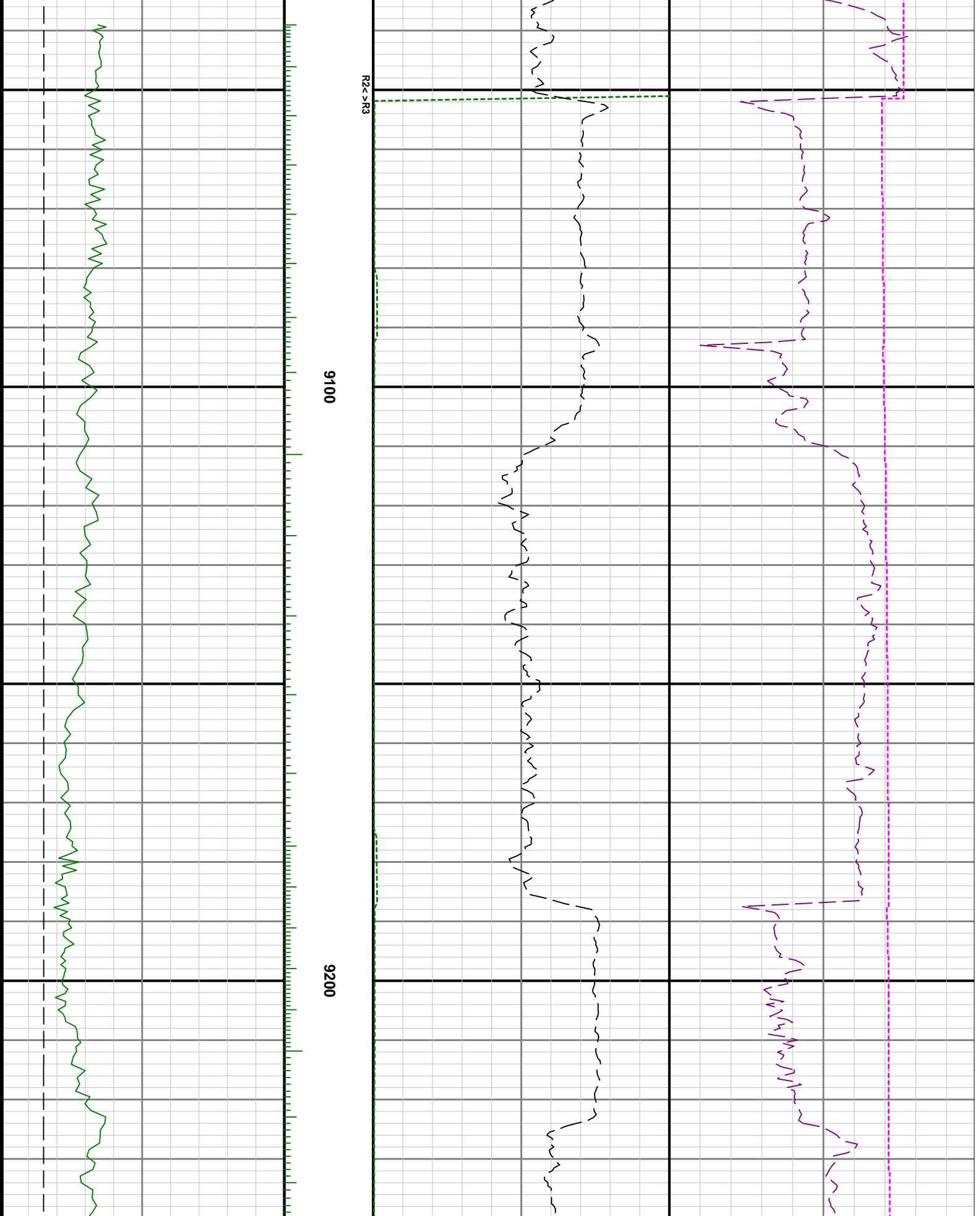


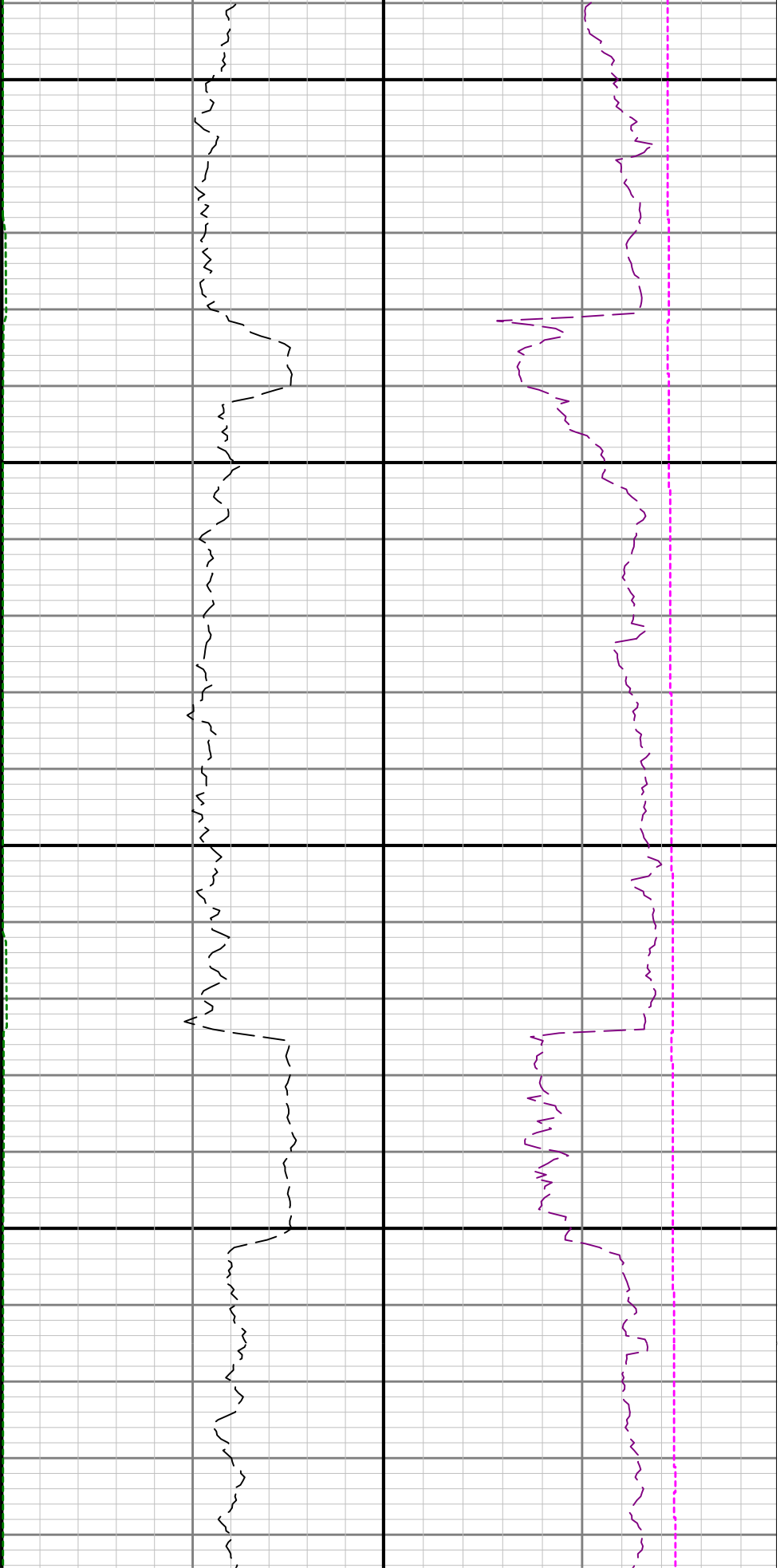
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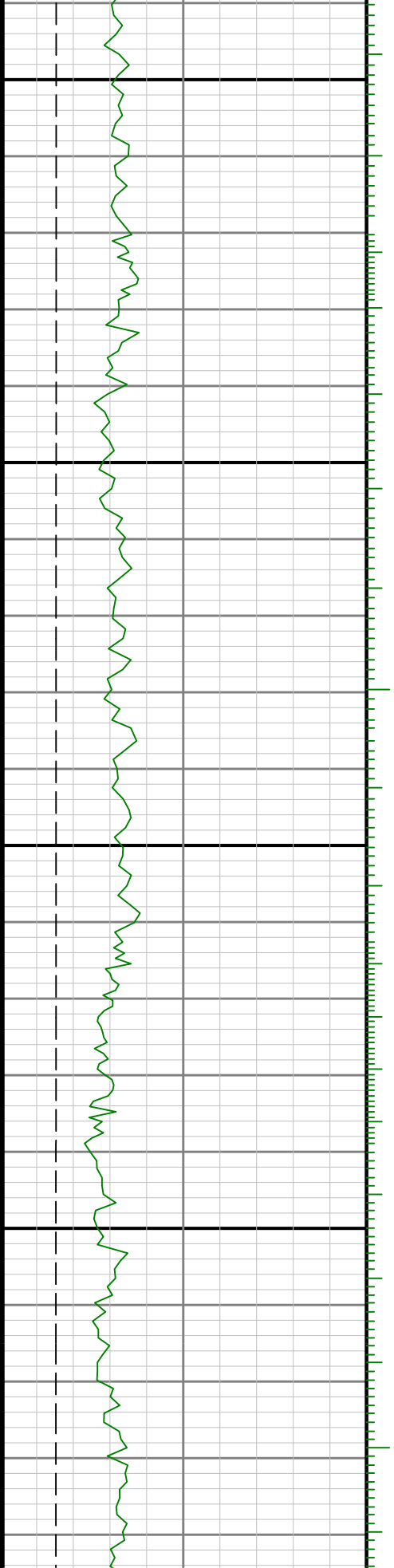


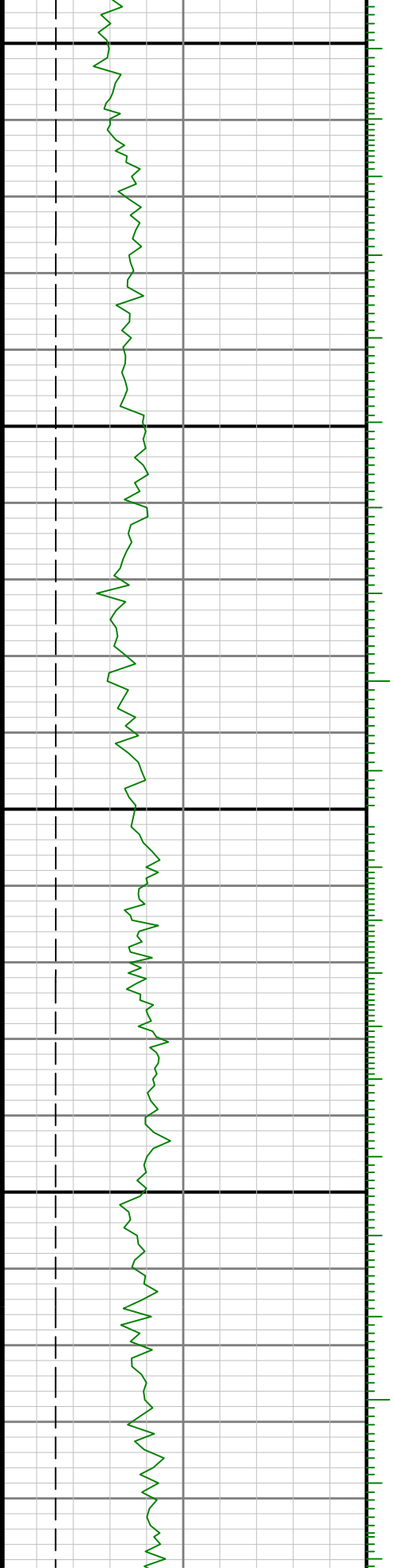




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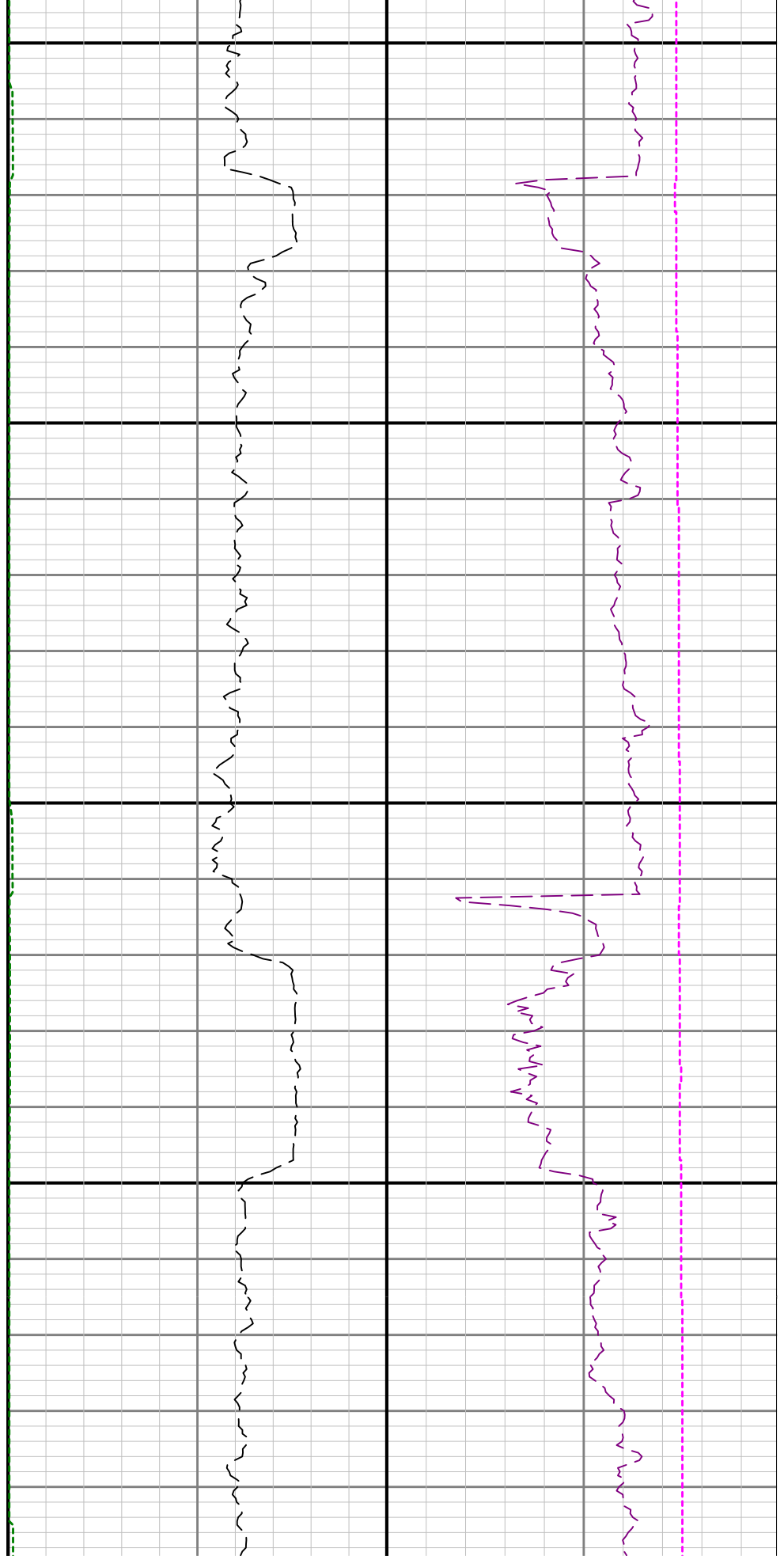
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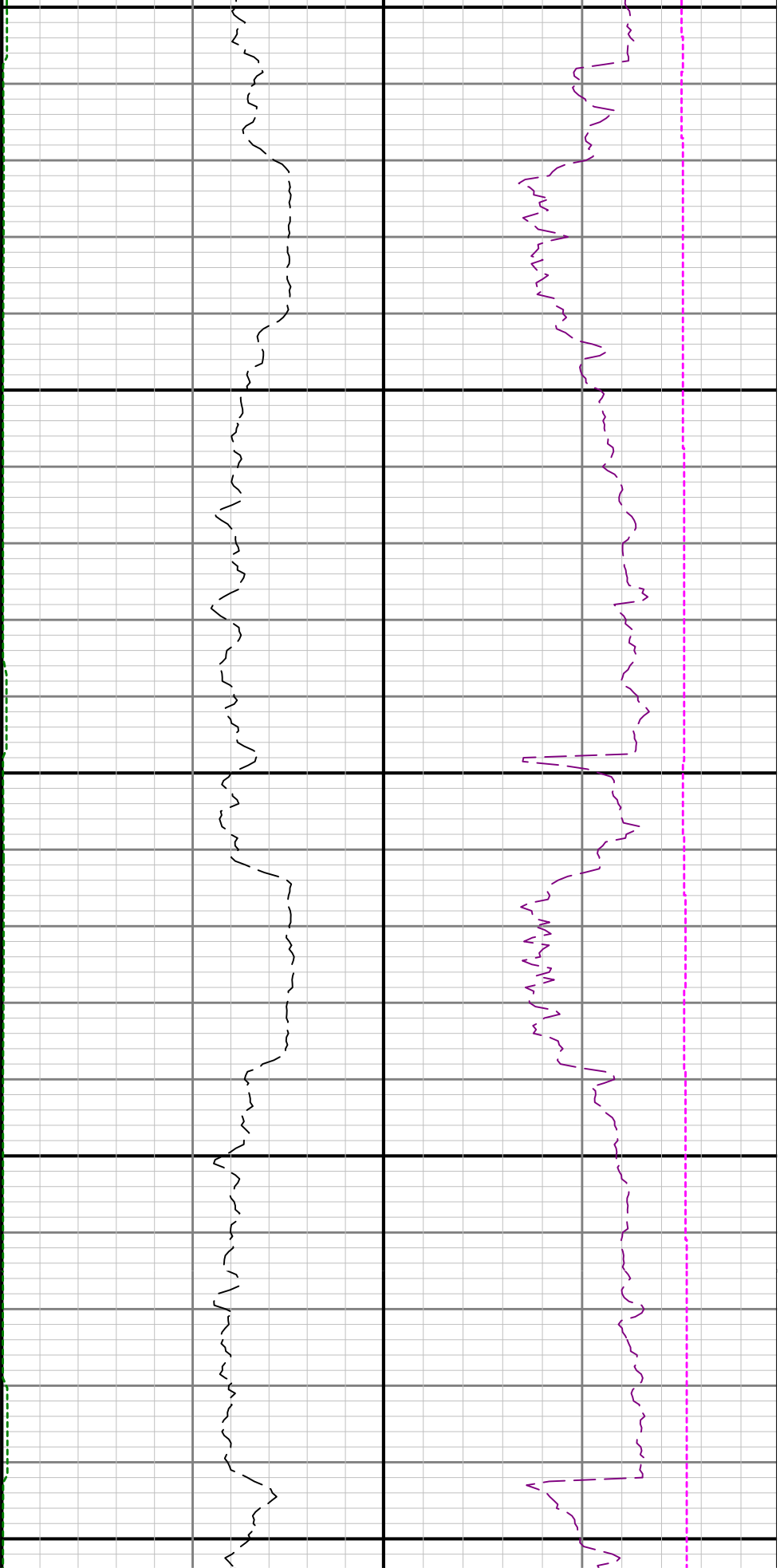




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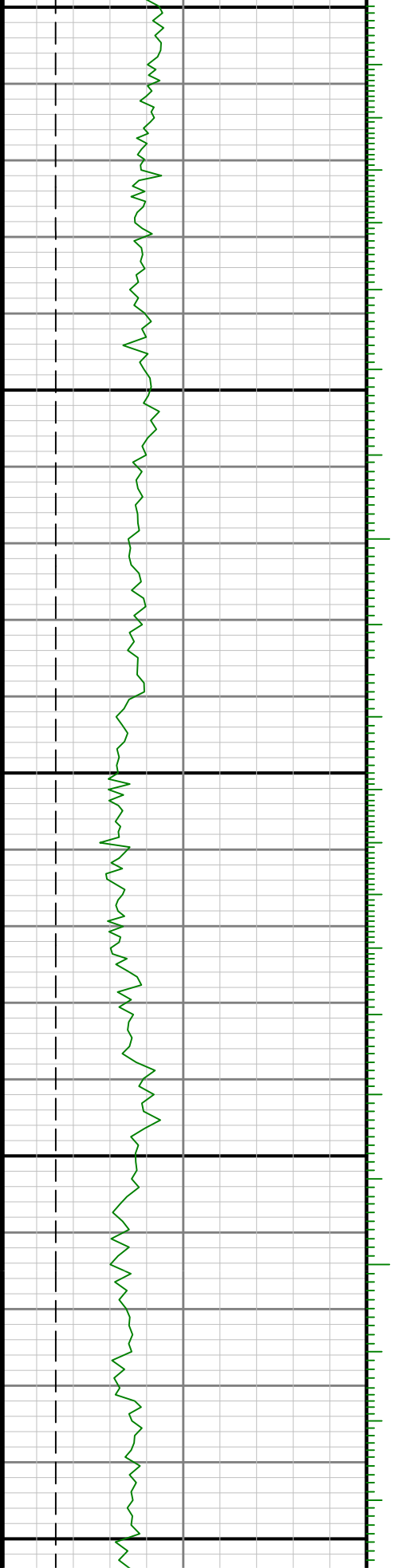
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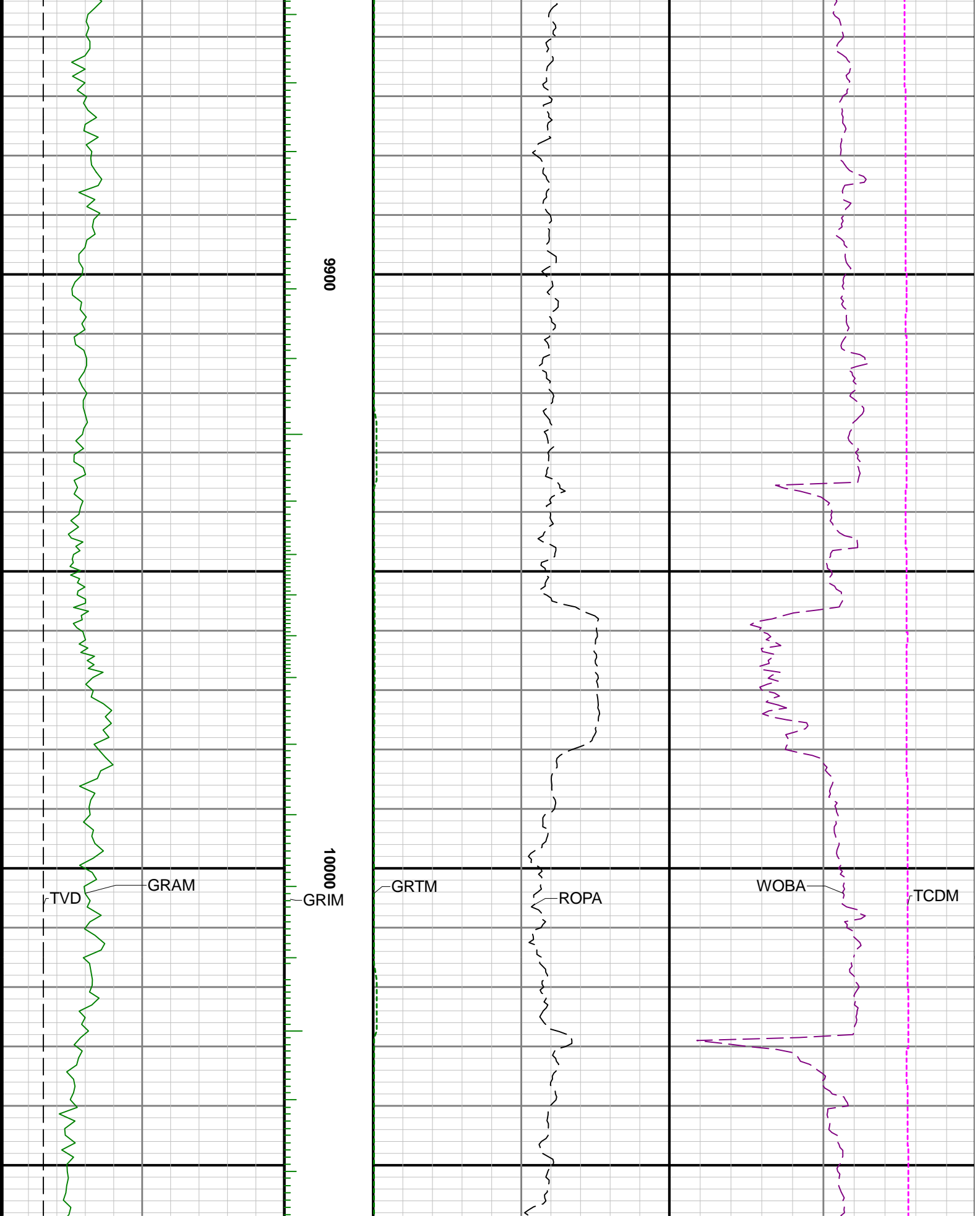


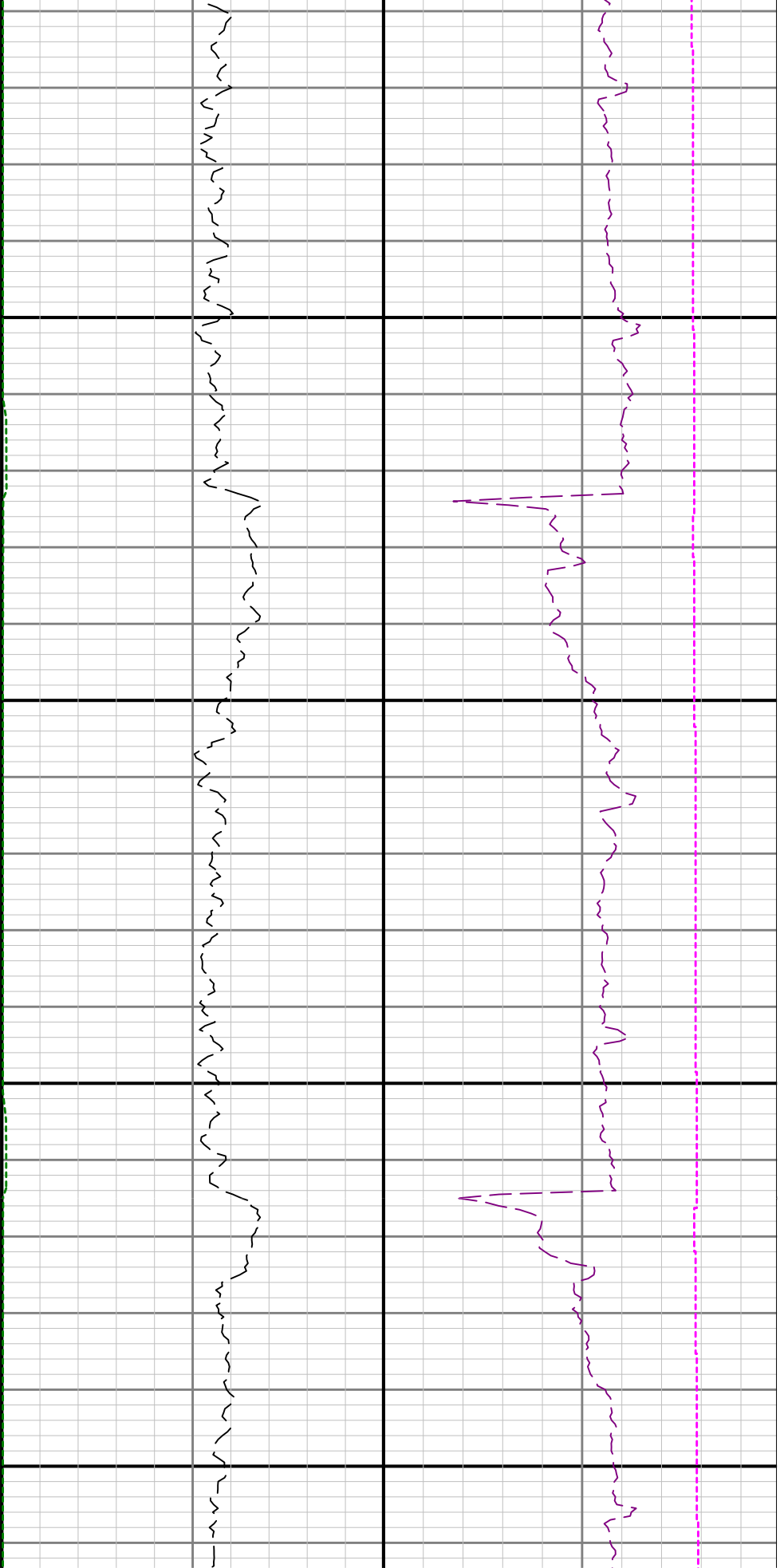


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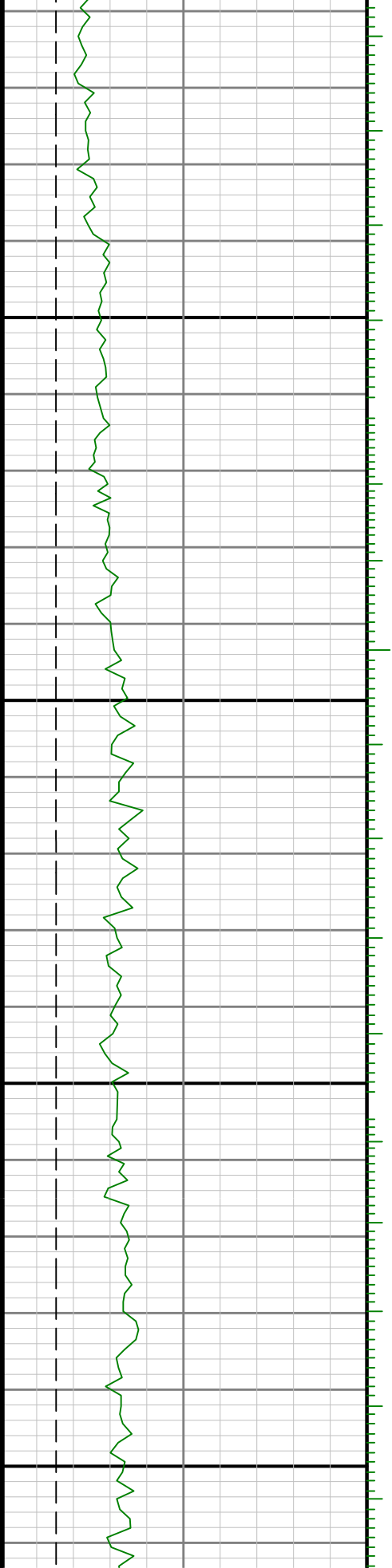


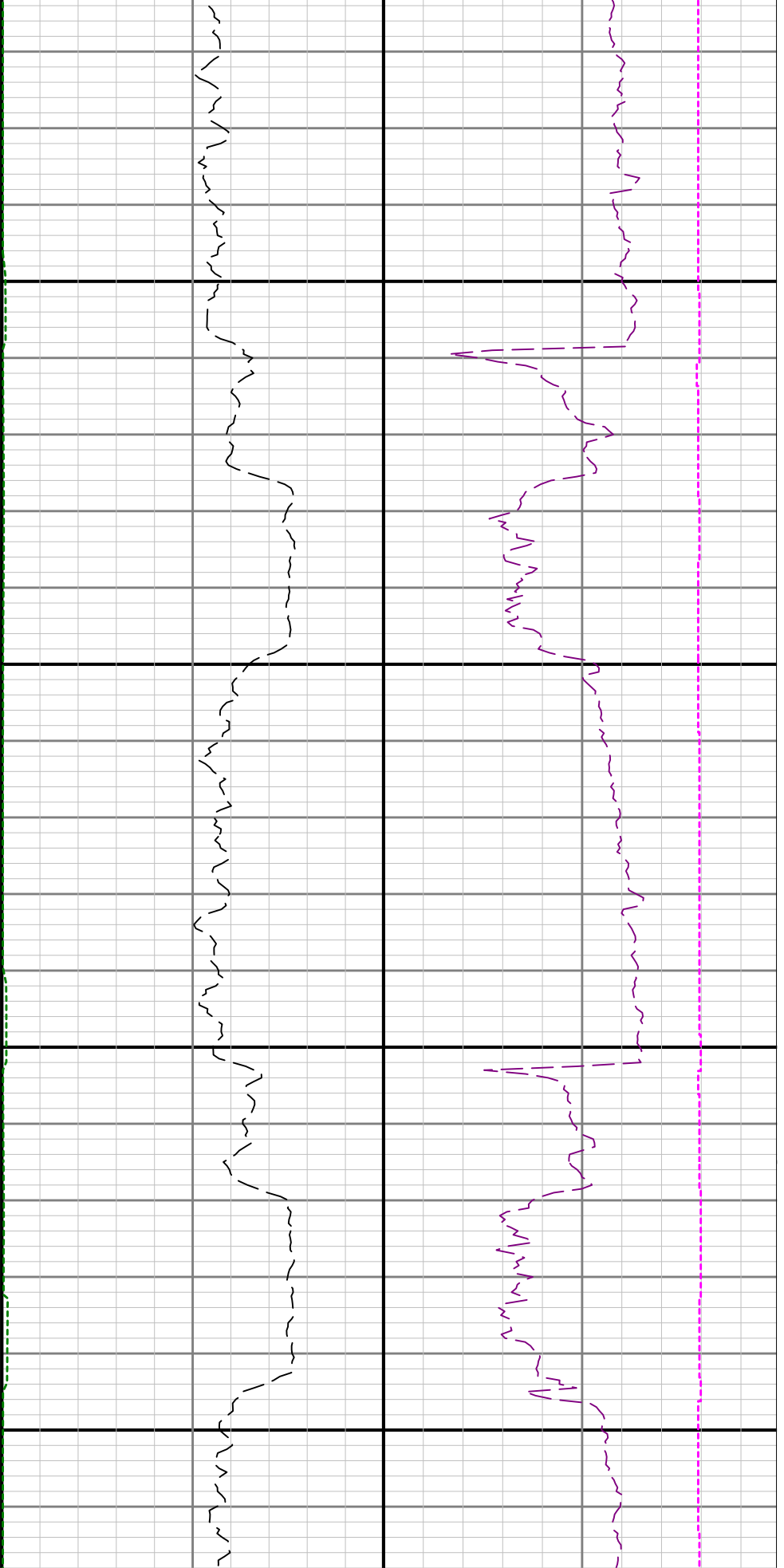




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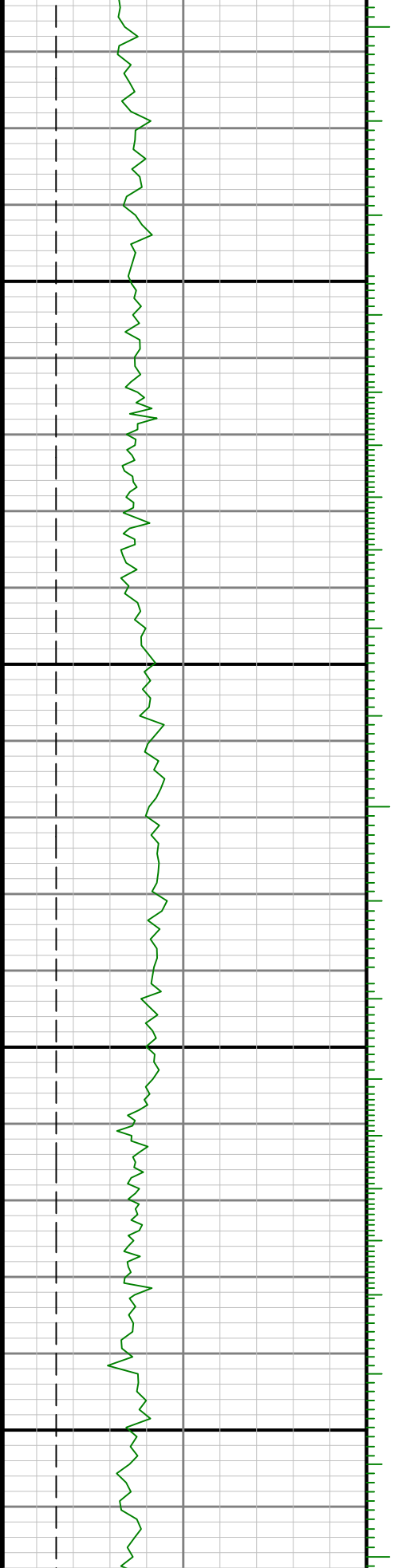
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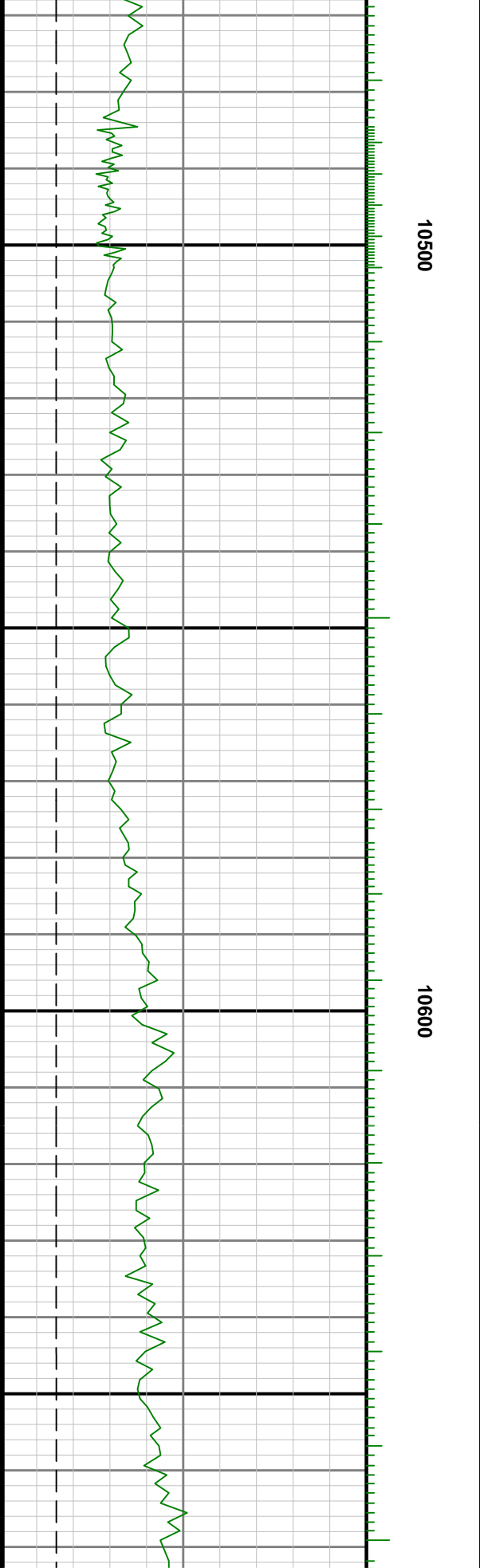
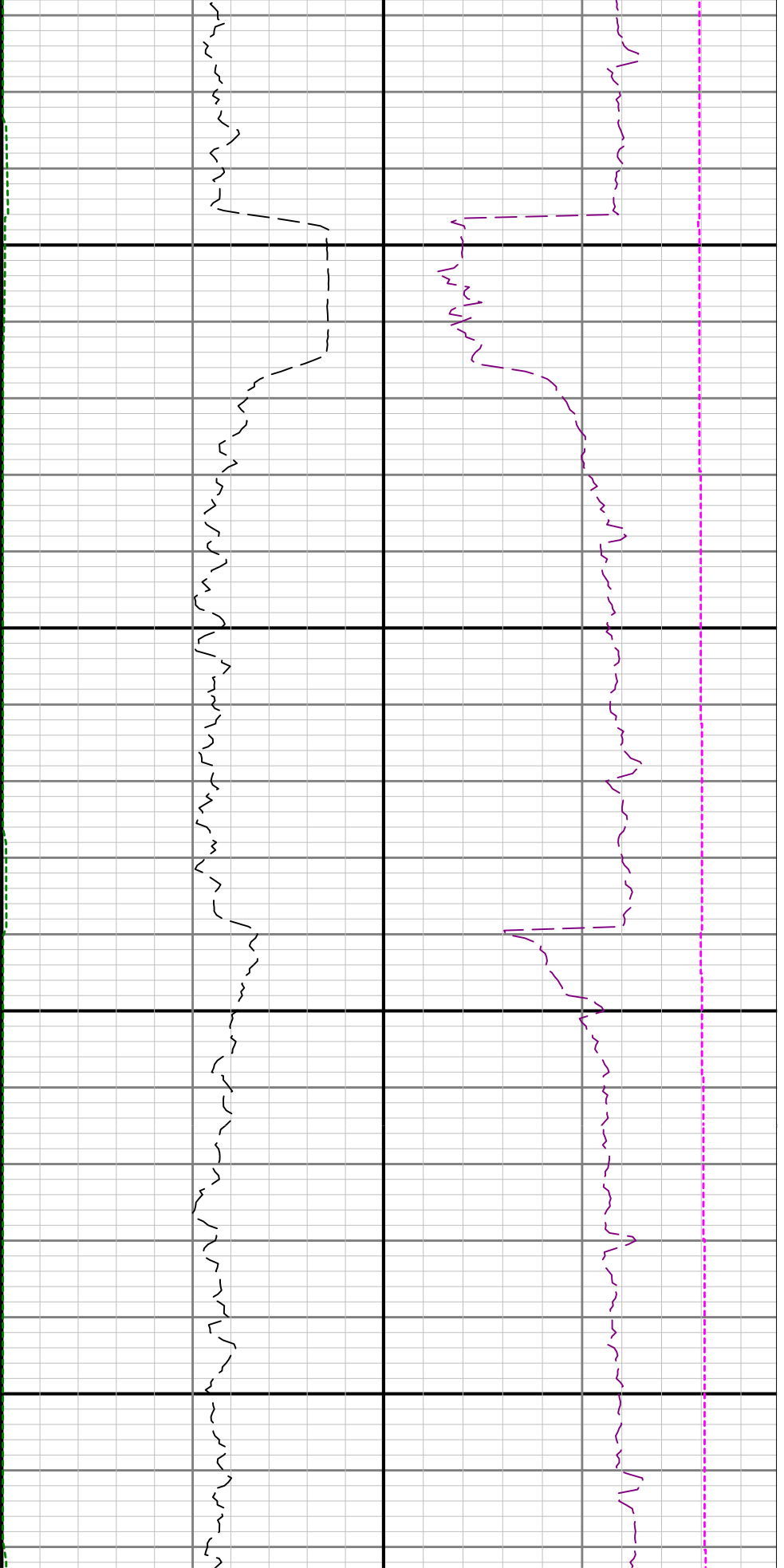




10300

10400

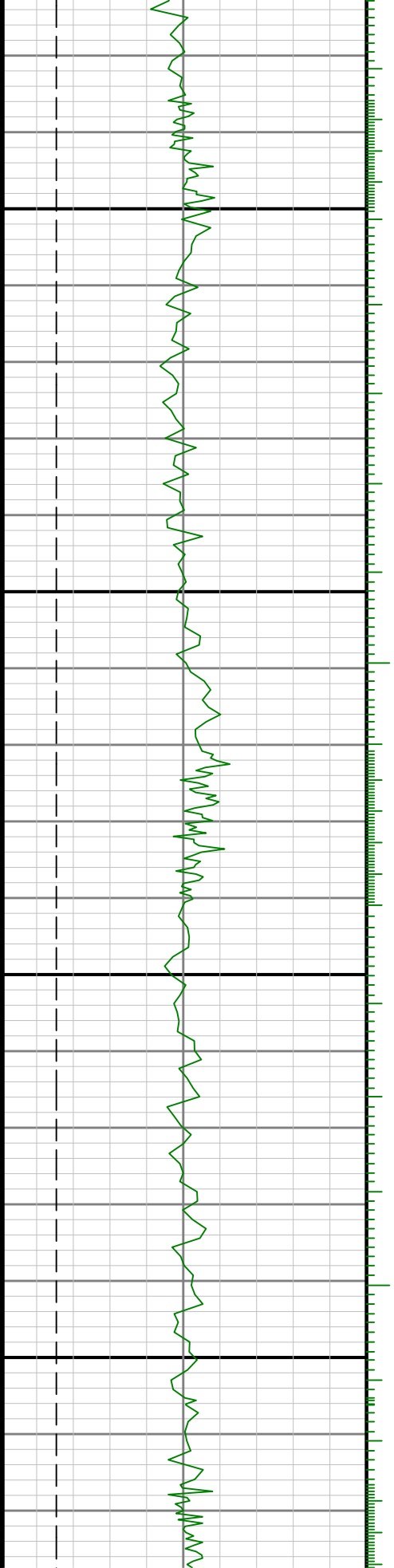


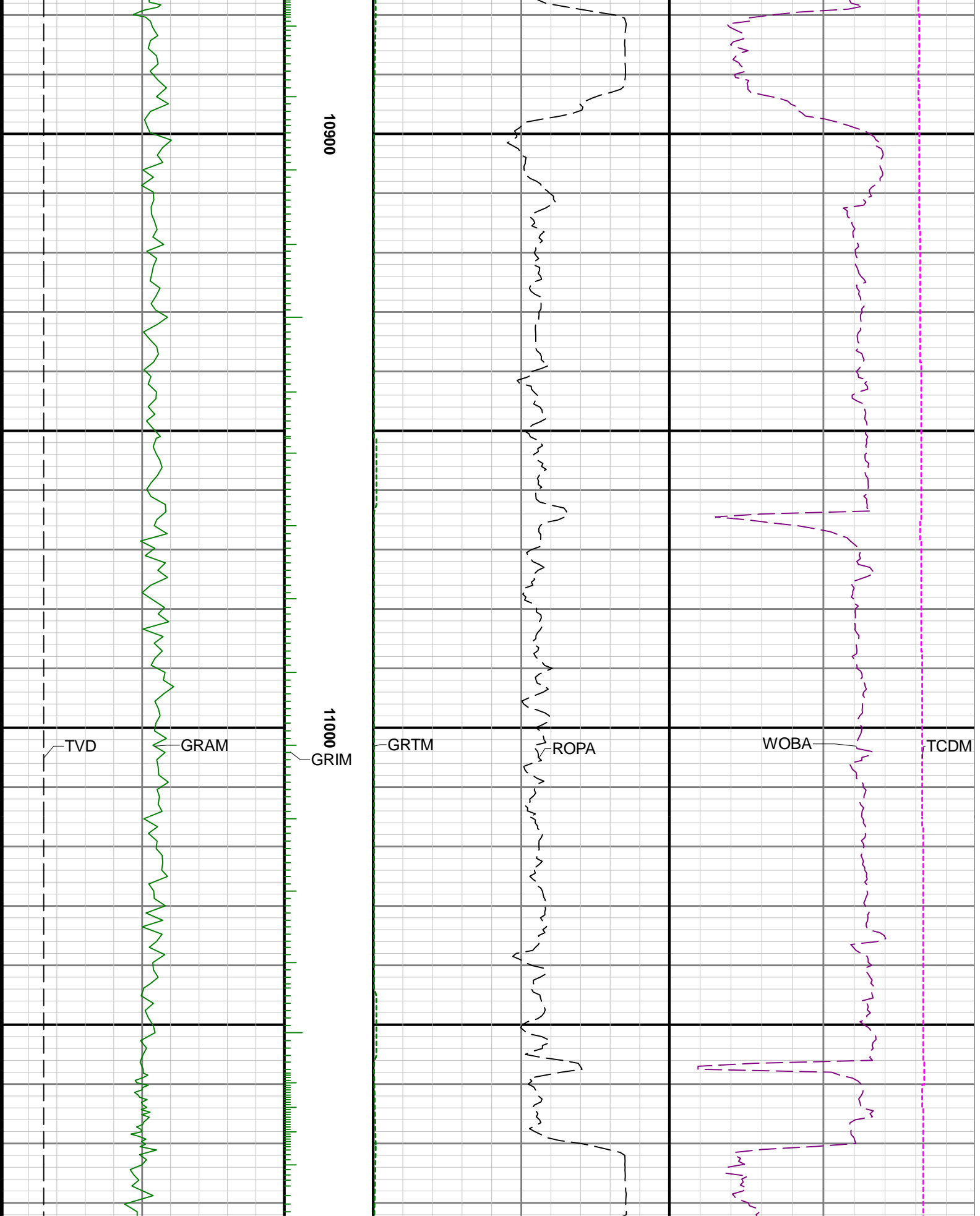




10700

10800

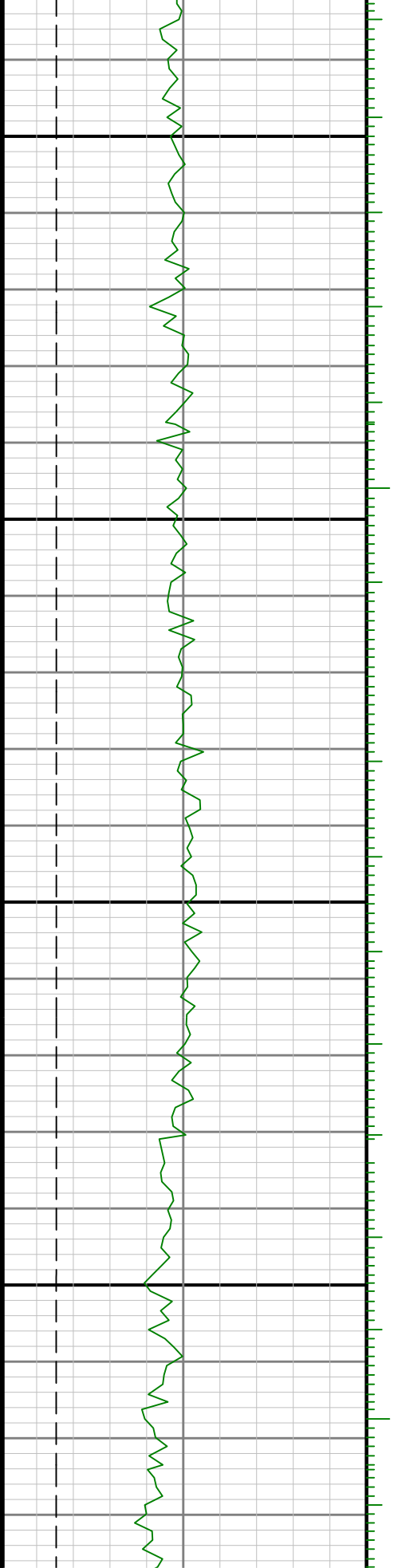


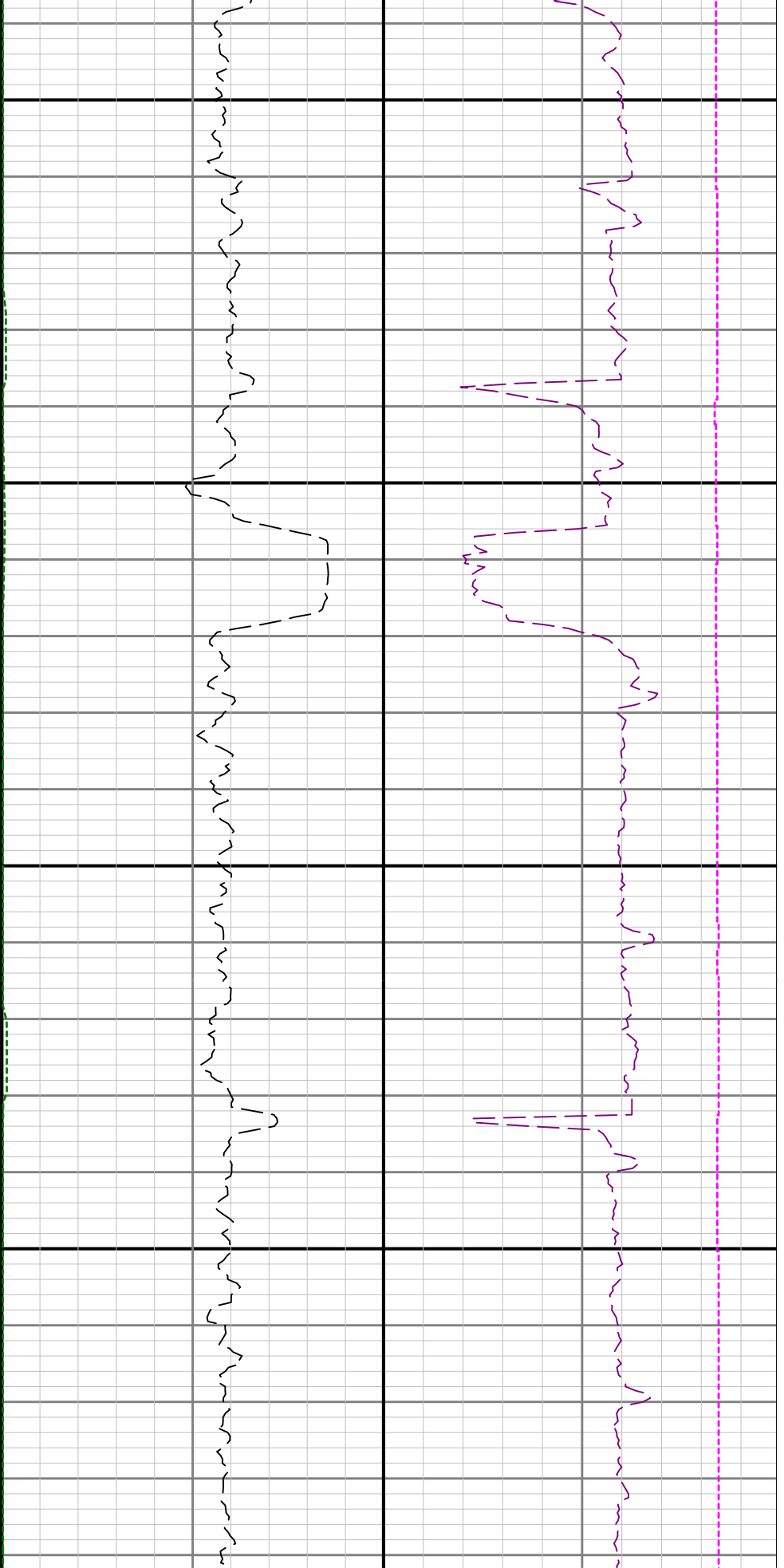




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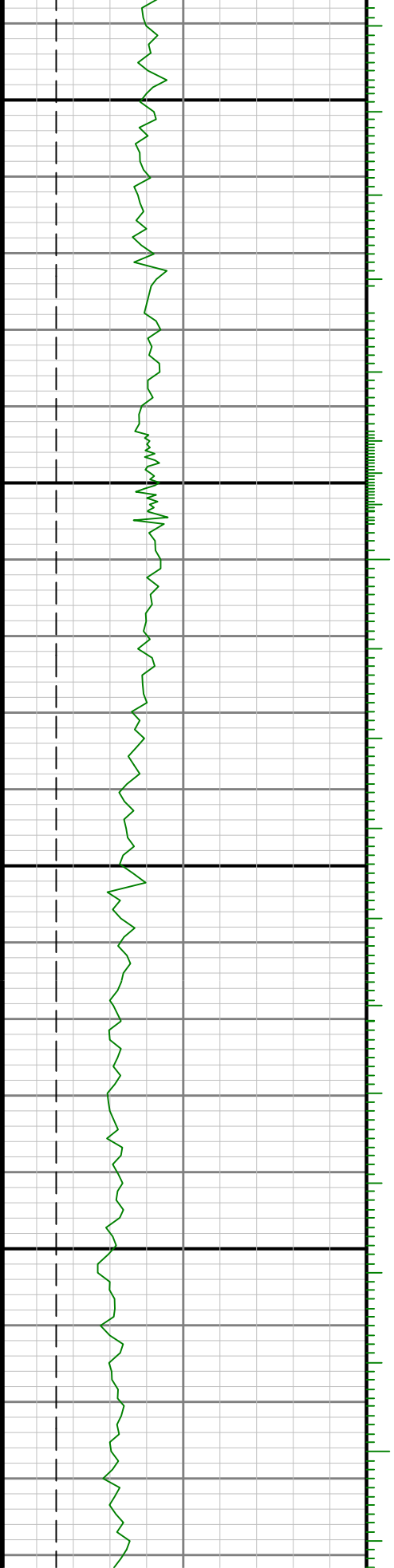
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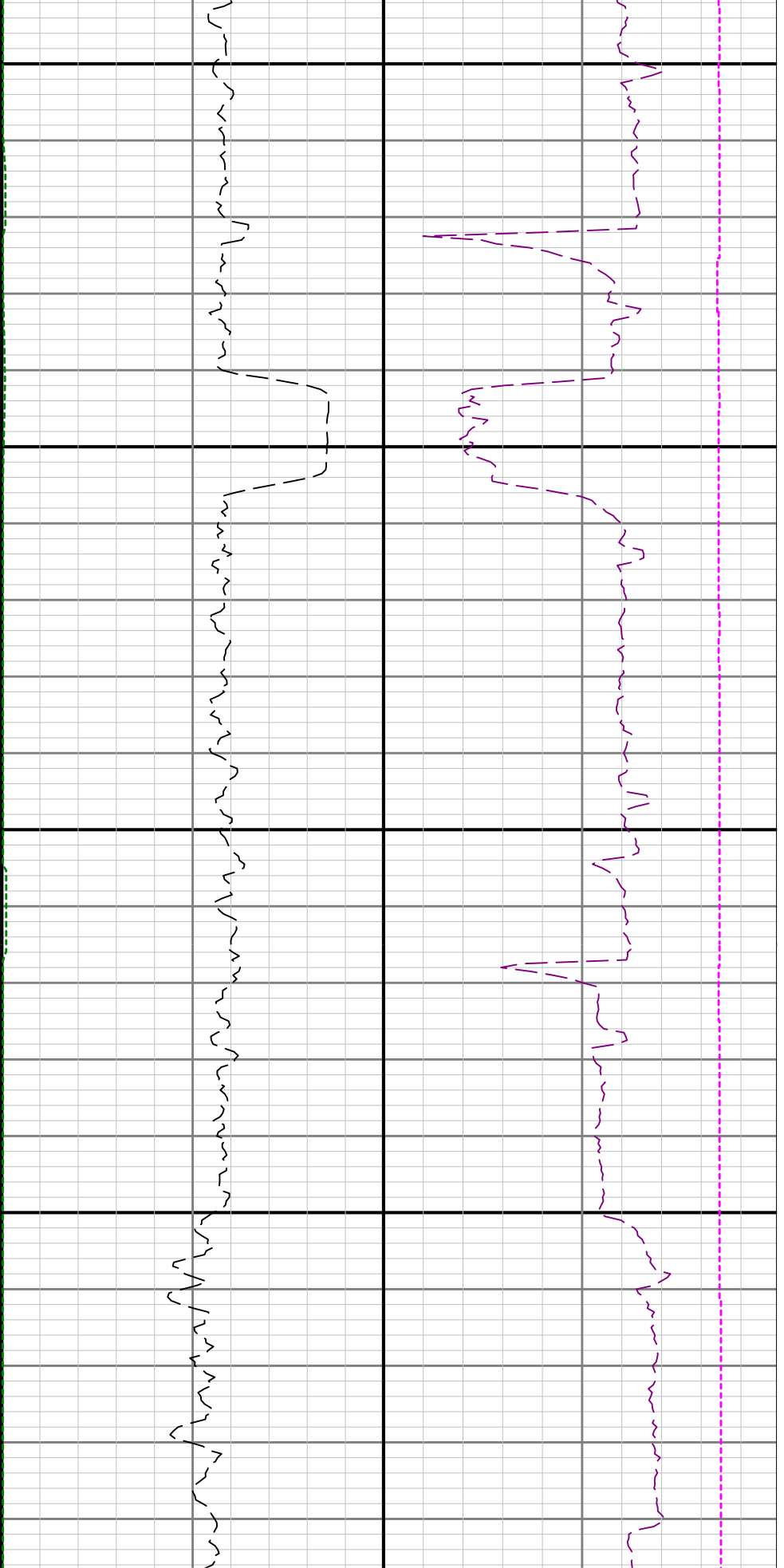




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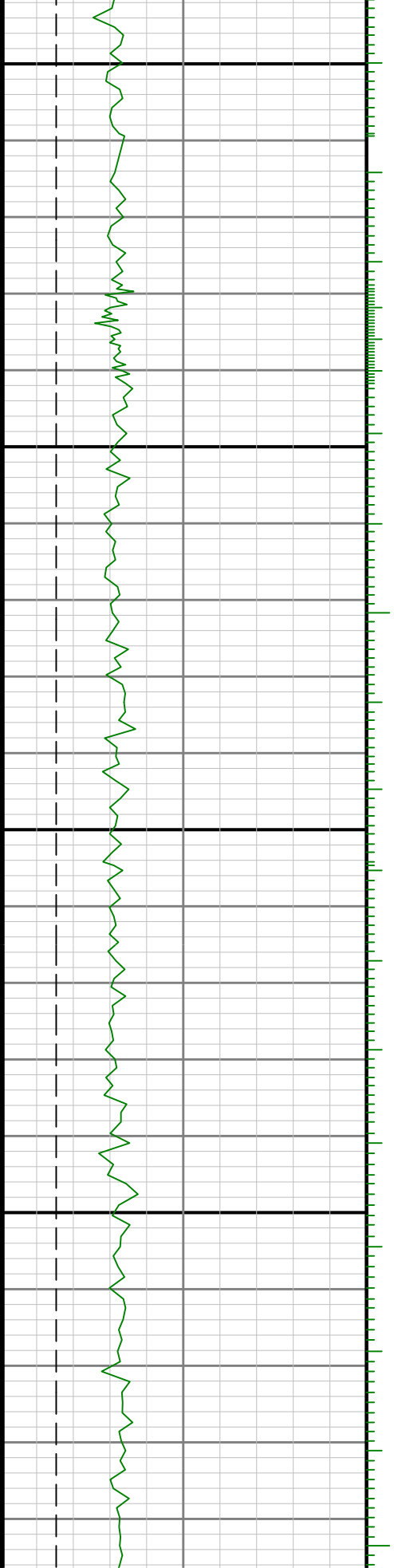
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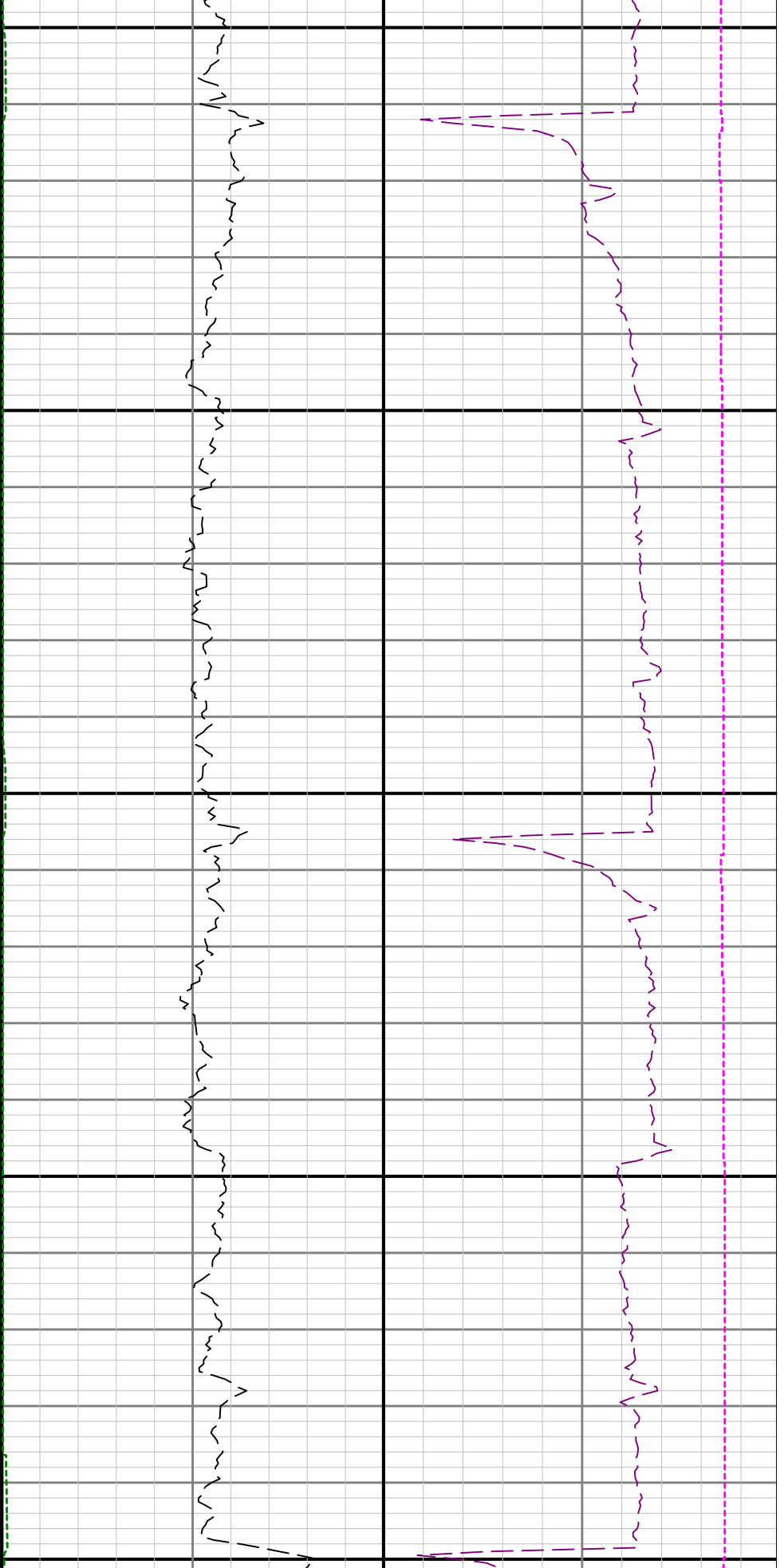




11500

11600

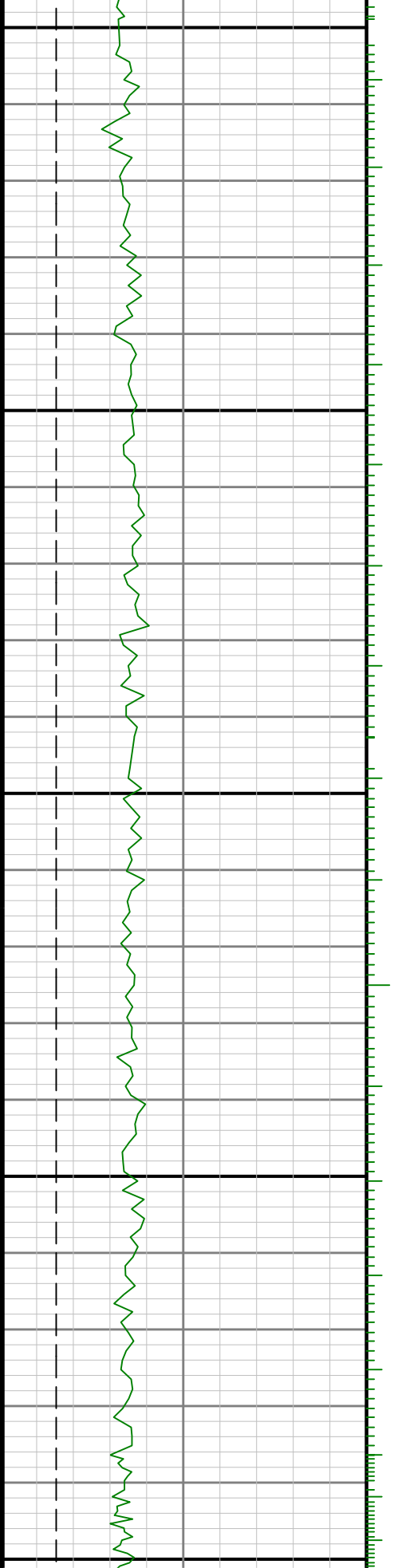


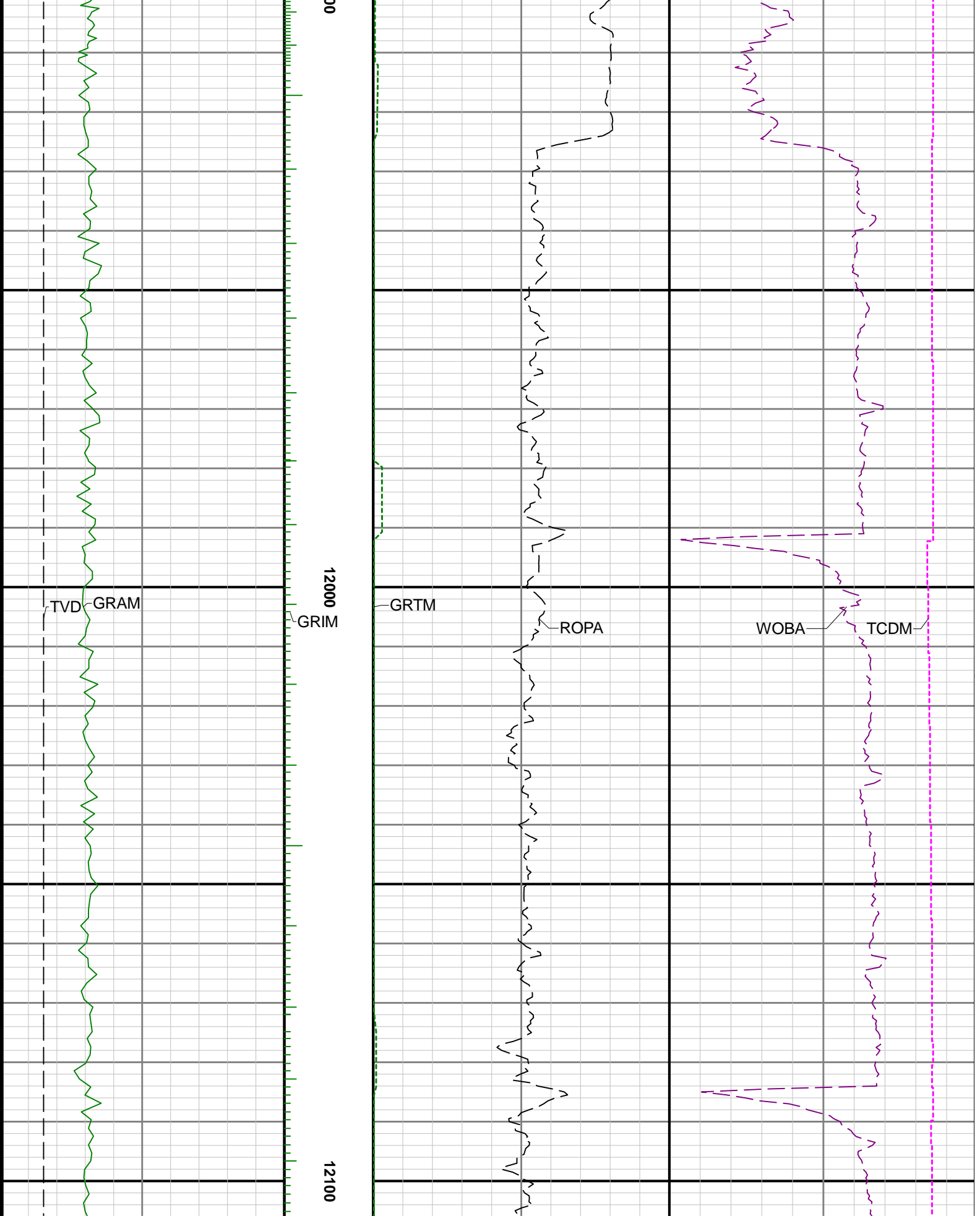


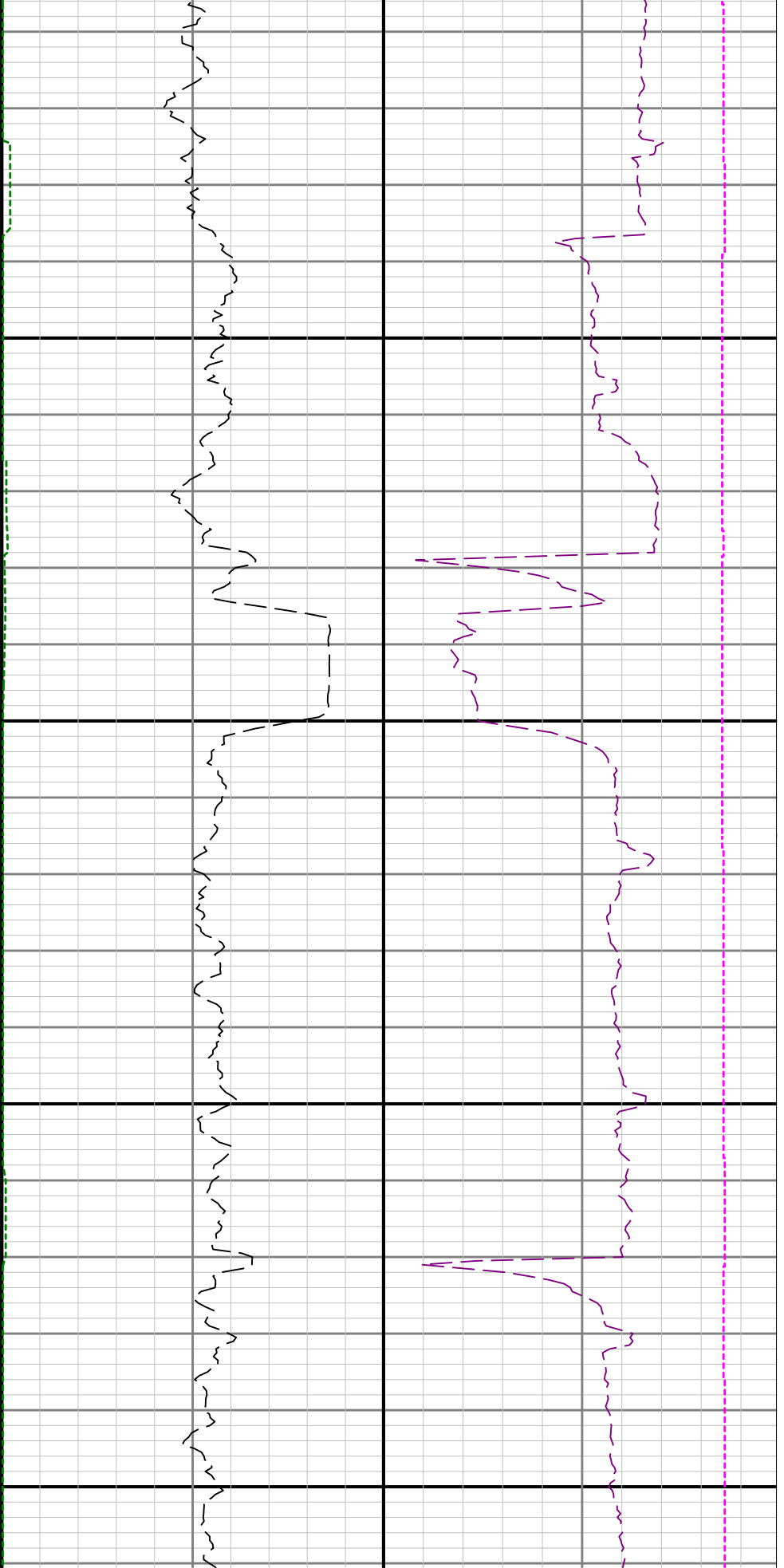
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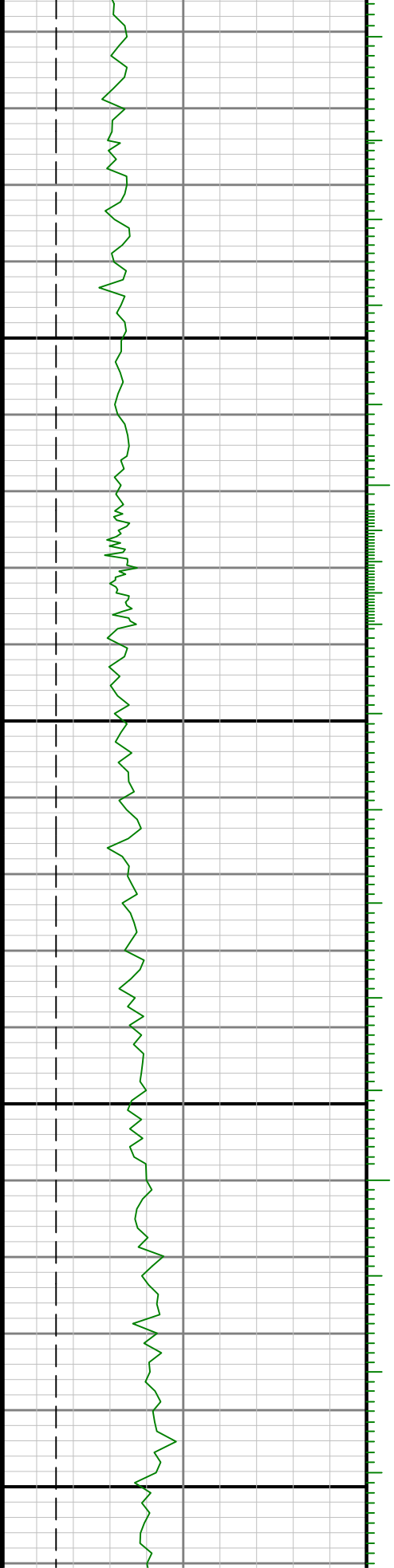


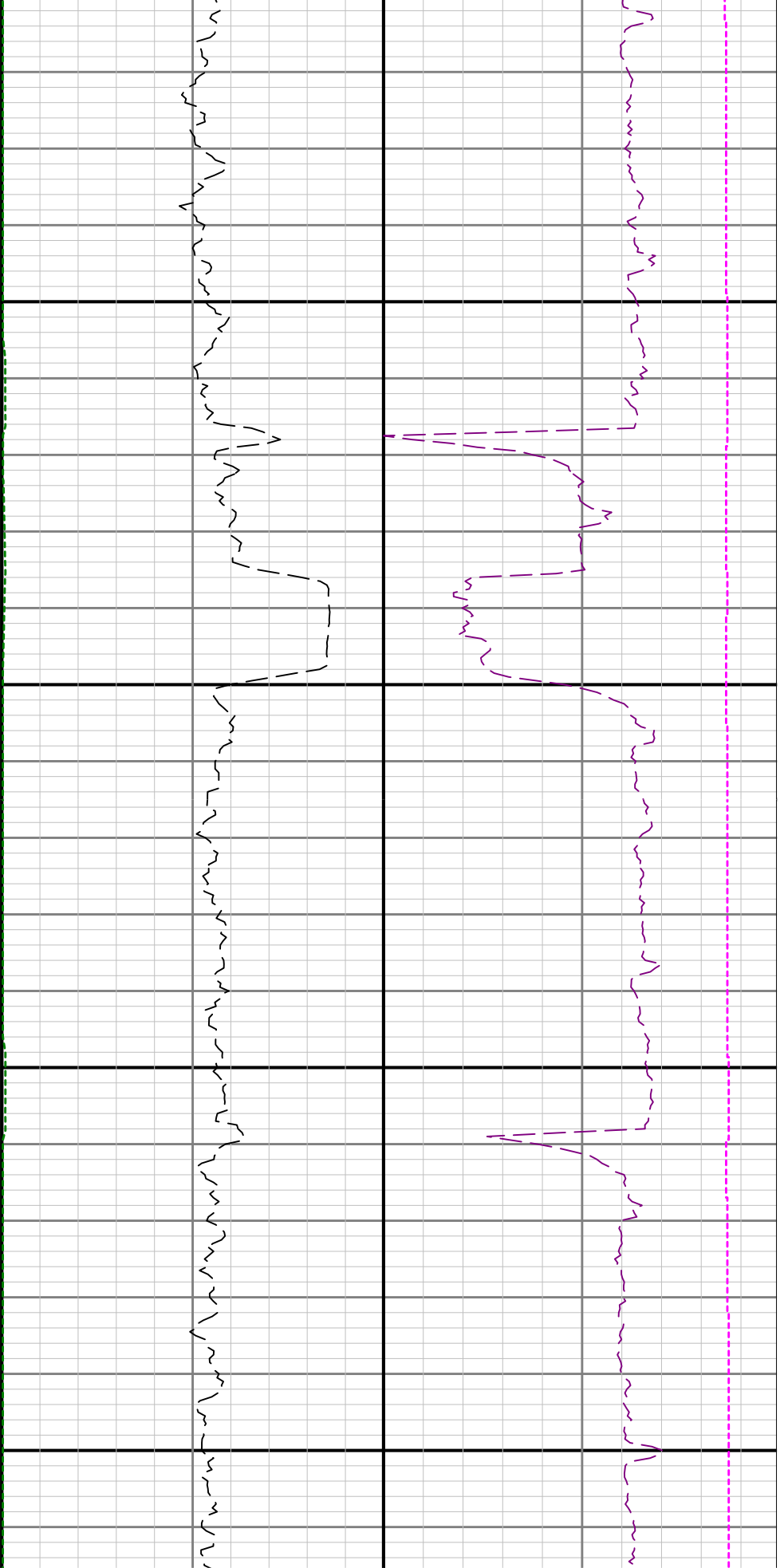




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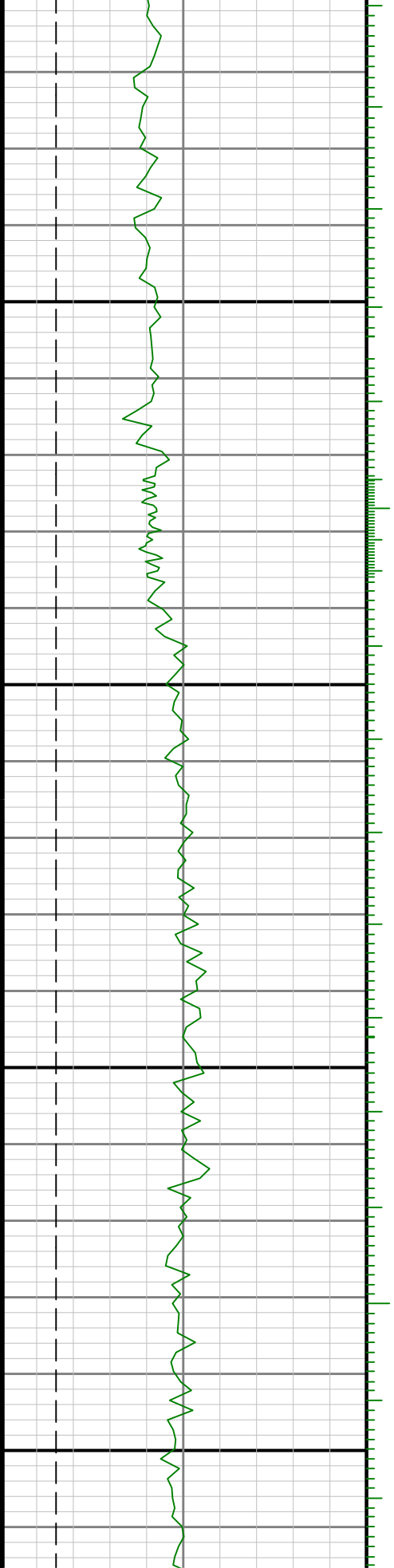
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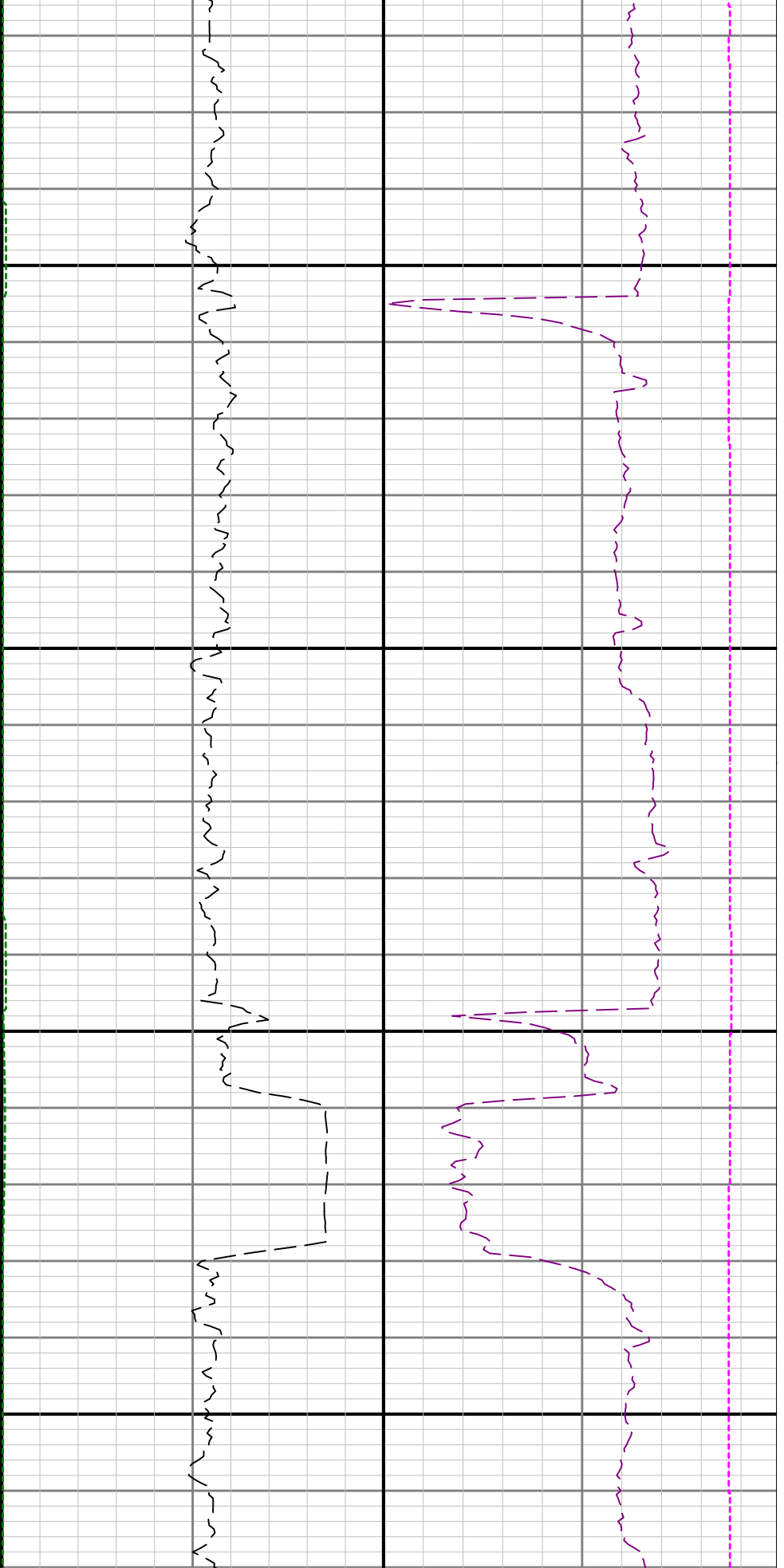




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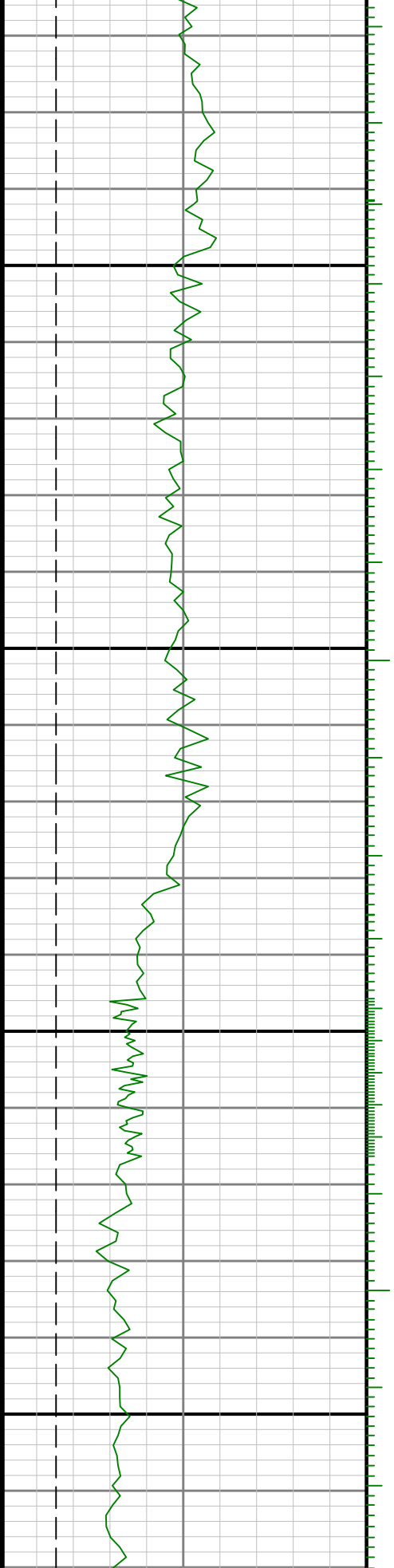
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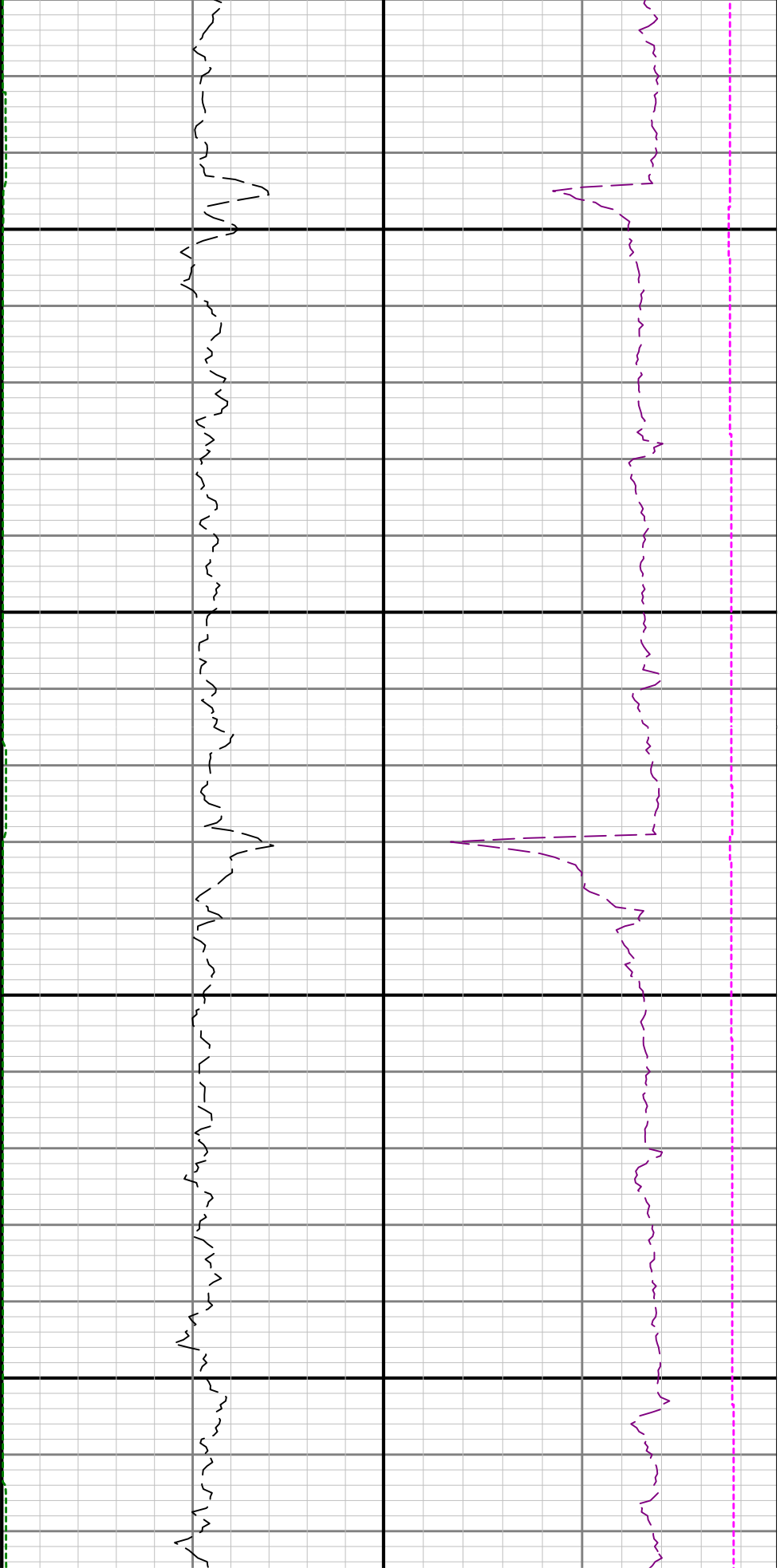




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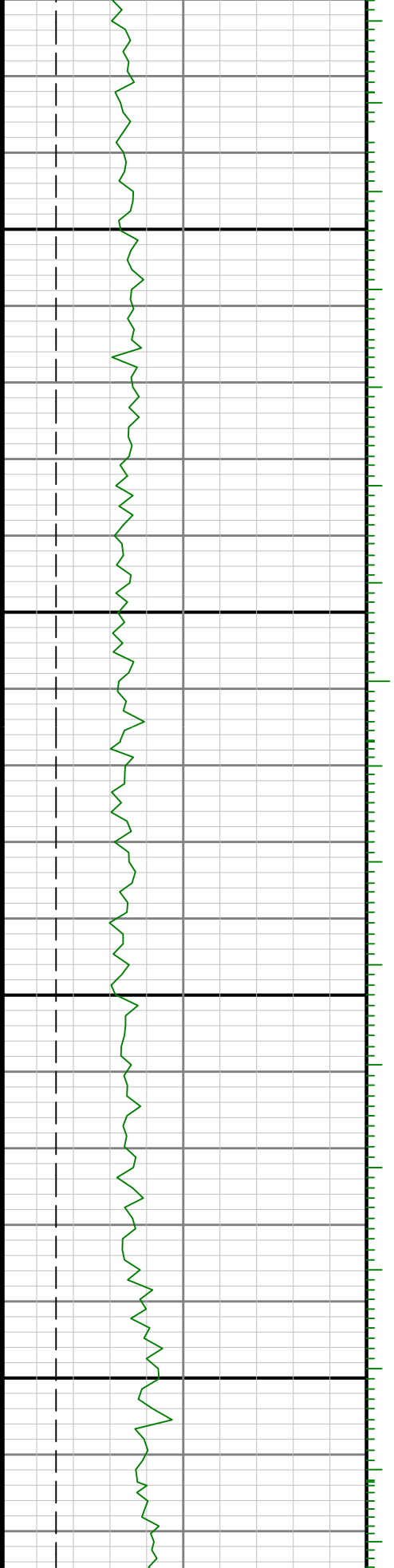
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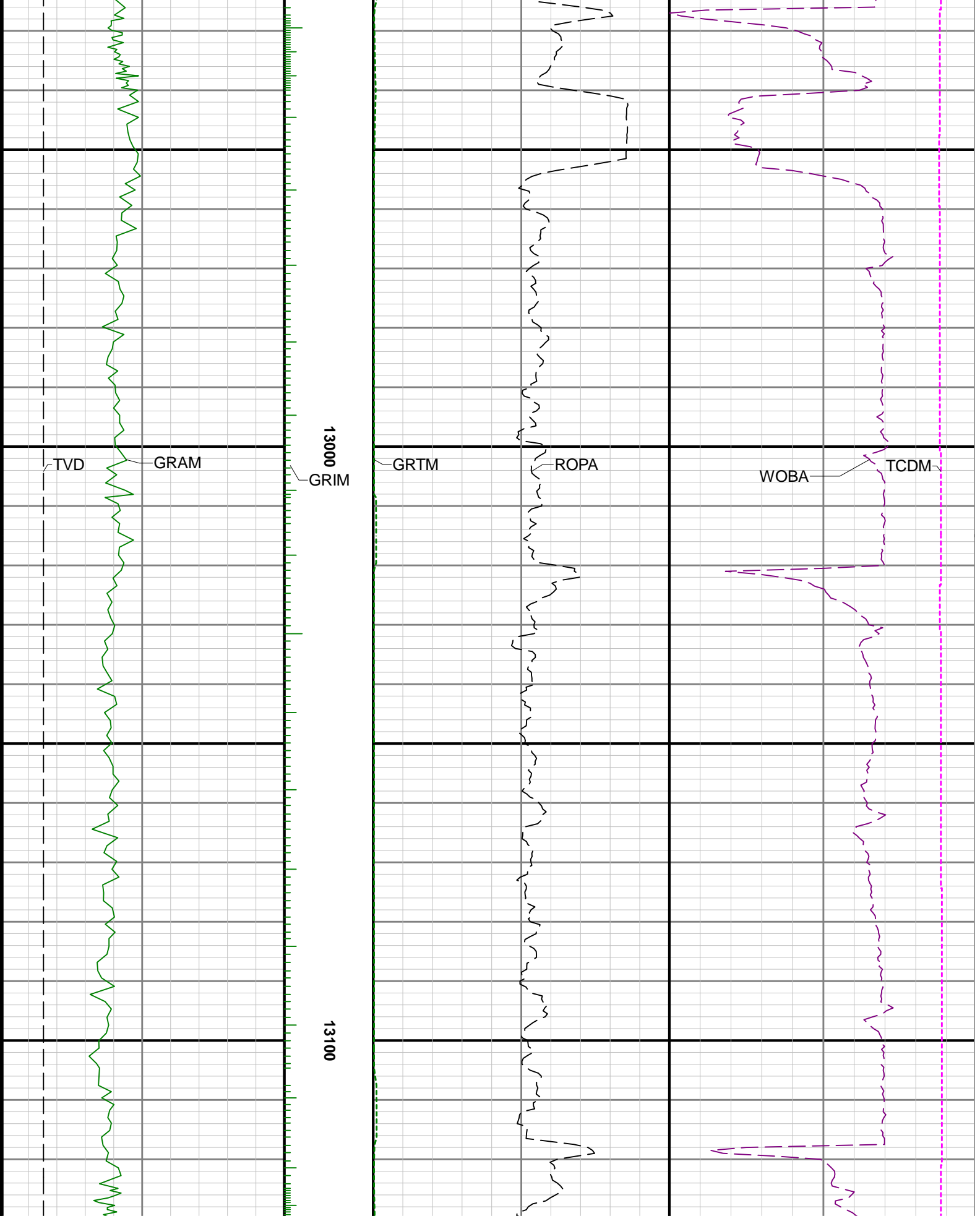


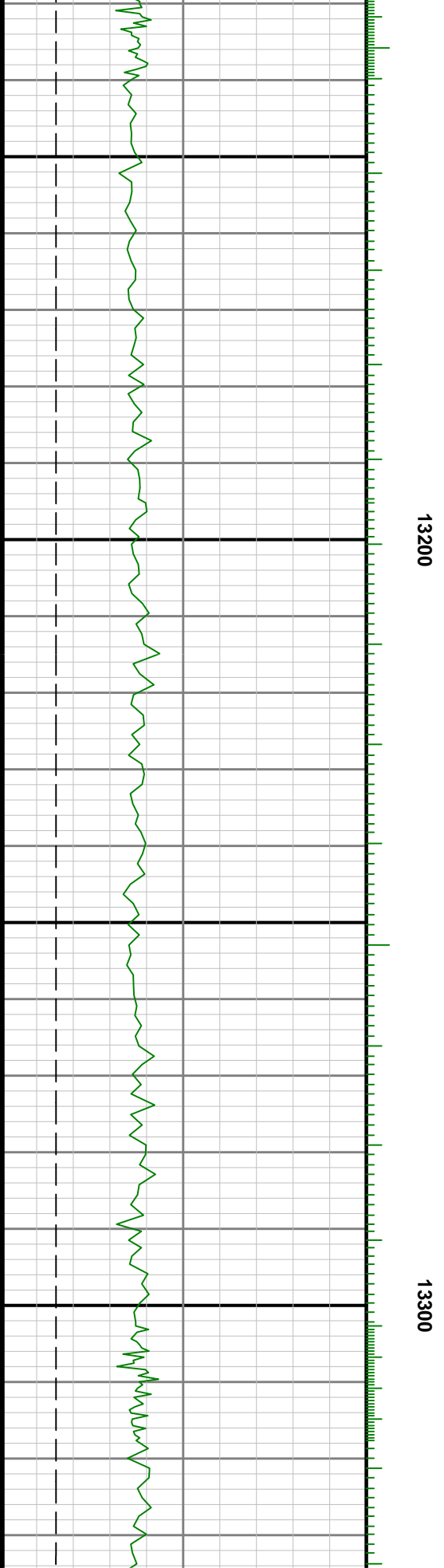


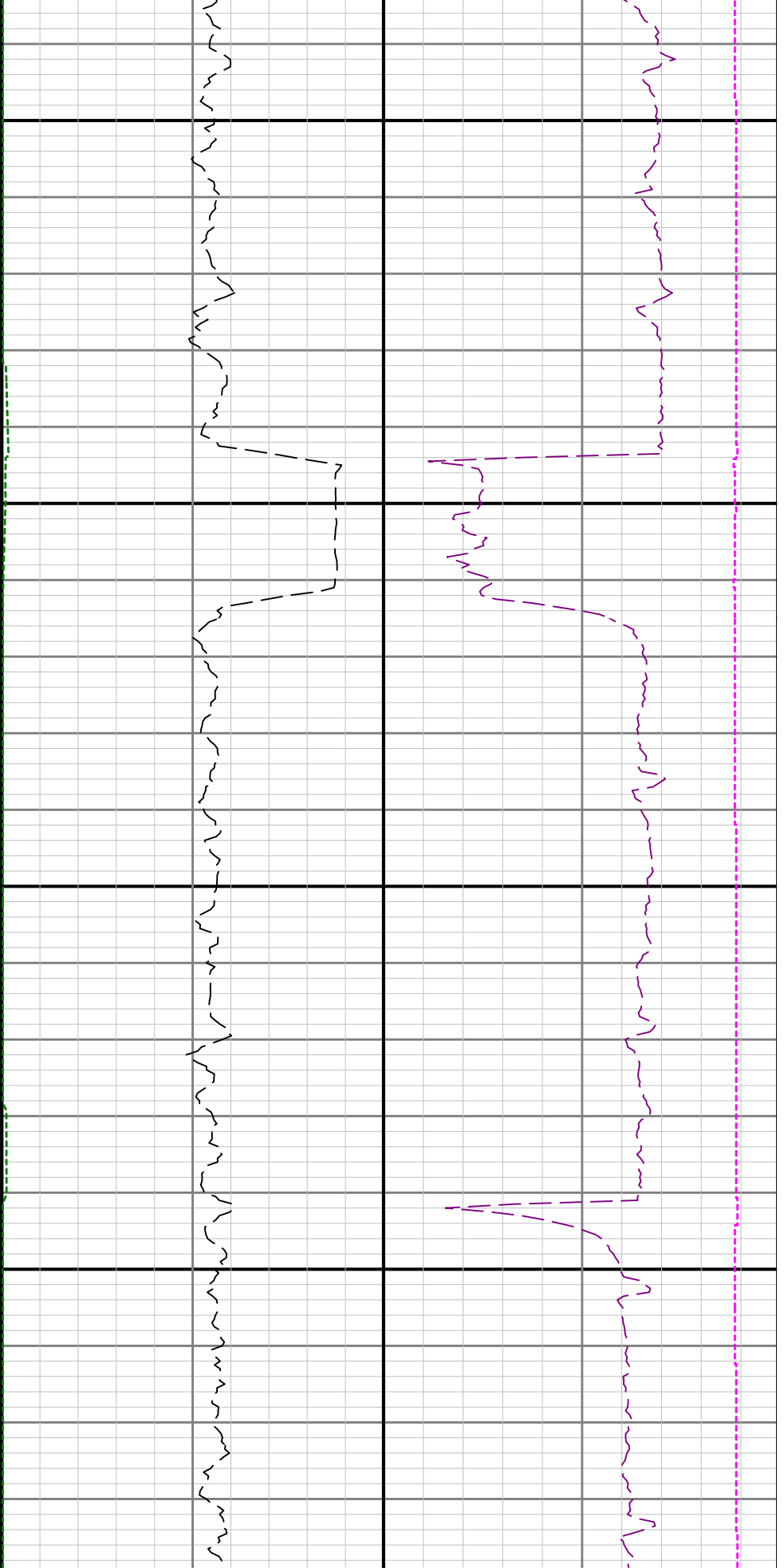
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12900



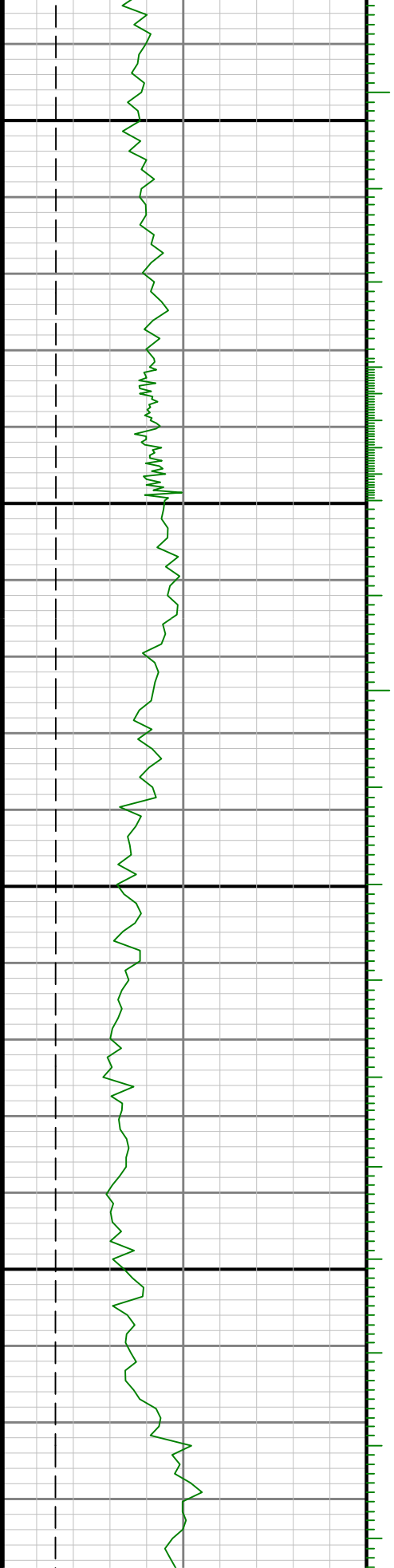


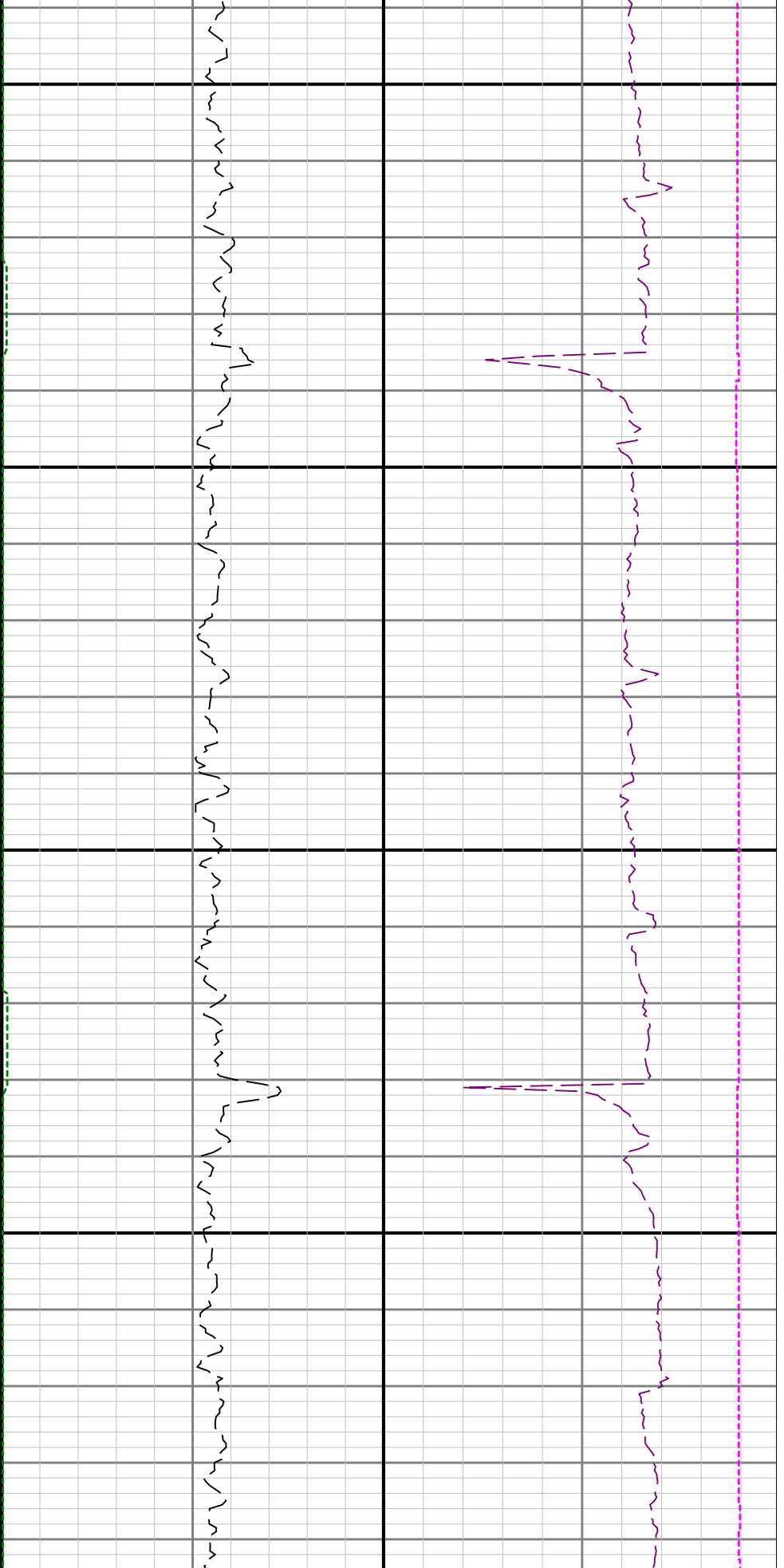




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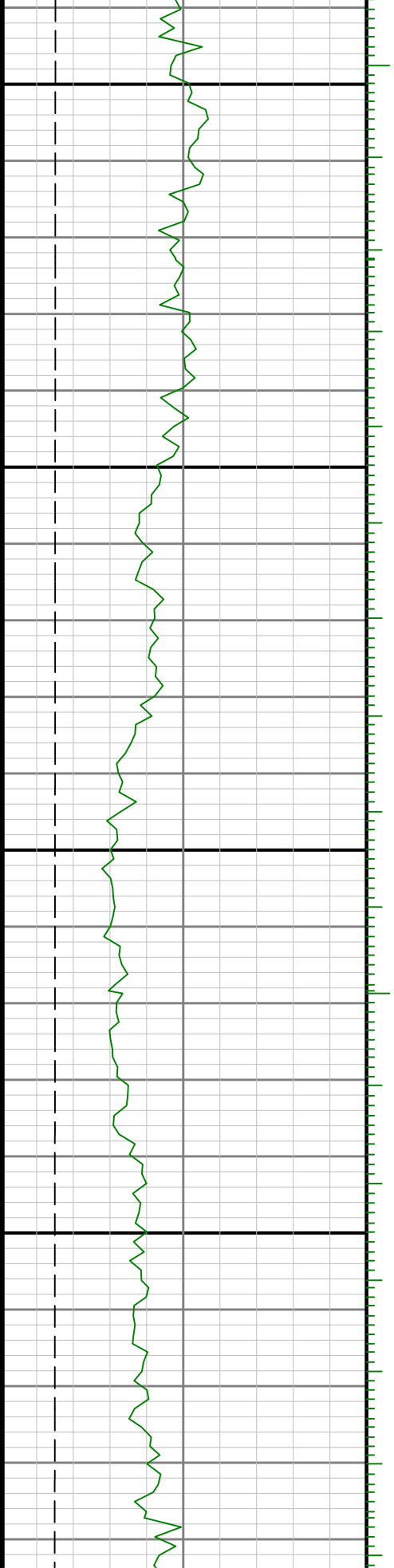
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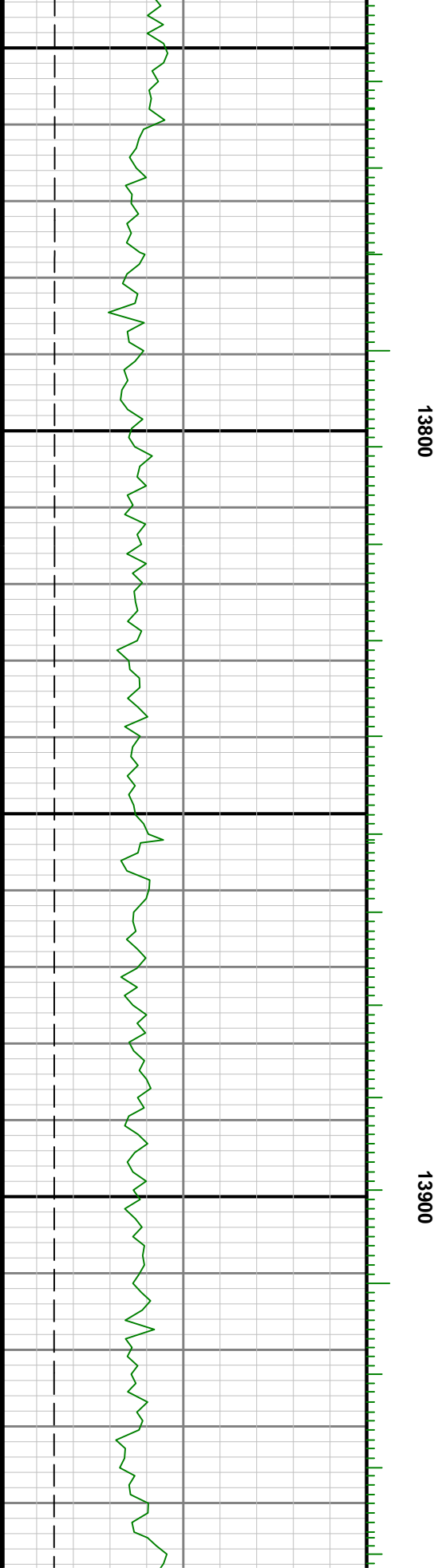
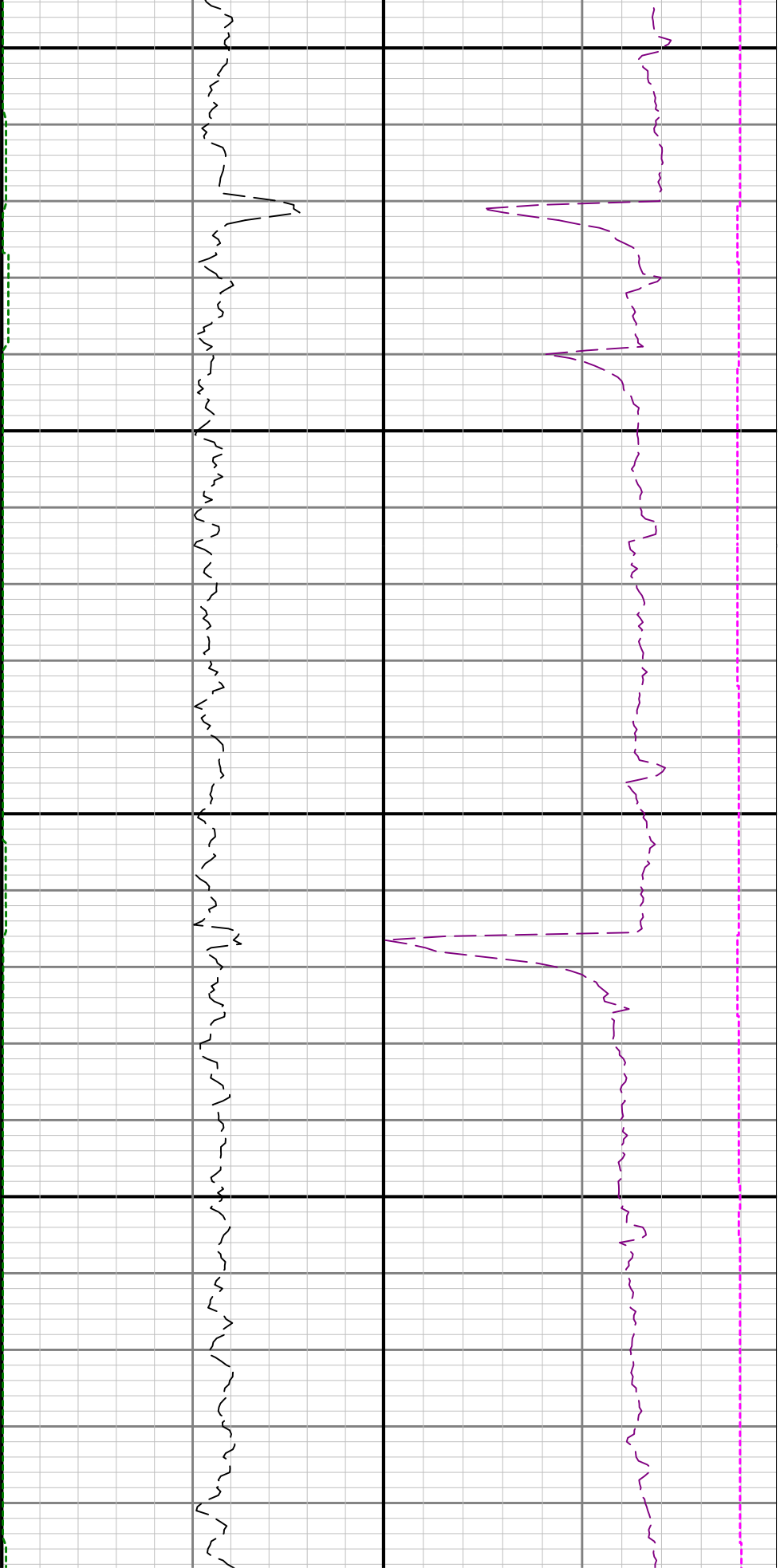


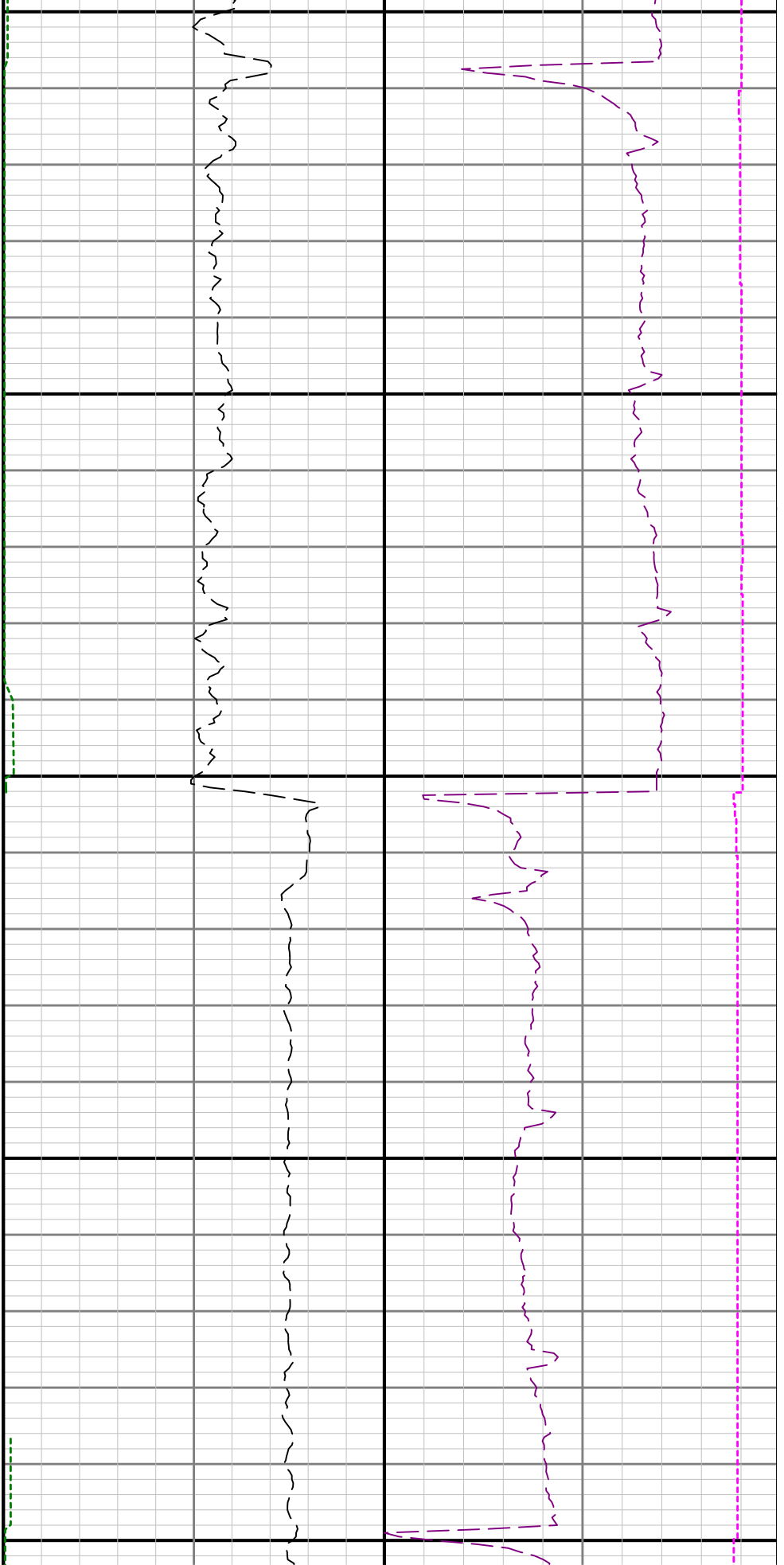


13600

13700







14000

14100

See Remark 3

