


LWD MEMORY LOG															
<div><div>BAKER HUGHES</div></div>			Gamma Ray												
Scale:			Company: SRC Energy												
1:240 MD			Well: Falken 9N-9C-L												
Depth Reference:			Field: Weld County												
Driller's Depth			County: Weld County Country: United States												
Status:			State: Colorado						Other Services:						
Final Print			Surface Location:						Latitude: 040° 30' 02.574" N Longitude: 104° 44' 09.406" W Directional						
API No: 05-123-45122			SEC: 11 TWN: 6N RGE: 66W						Elev. KB: N/A Elev. DF: 4835.00 ft Elev. GL: 4810.00 ft						
Job ID: 8728111			Permanent Datum (P.D.): Ground Level						Elevation: 4810.00 ft						
Log Measured From: Rig Floor			Above P.D.						25.00 ft						
Dates			Interval Logged						Magnetic Field Reference						
Date From: 2017-09-15			Top: (ft) 110.00			Azi Reference North: True			Dip Angle: (deg) 66.96						
Date To: 2017-10-07			Bottom: (ft) 18908.76			Total Magnetic Field Strength: (nT)			52496						
Spud Date: 2017-09-15			Mag to Reference North Correction: (deg)						7.55 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		1820.00		9.625		36.00		25.00		1800.00		
8.500			1820.00		18909.00										
Mud Record															
Deviation Record															
Type			From (ft)		To (ft)		Hole Size (in)		Interval (ft)		Inc Az (Start)		Inc Az (End)		
Diesel-Oil Based Mud			110.00		18908.76		13.500		1710.62		0.60 301.18		11.00 82.09		
							8.500		17088.14		11.00 82.09		89.97 271.99		
Acquisition System												Software Version		Other	
Baker Hughes Cadence			RT4.1		PD 562		Rig: Precision Drilling		Contractor: RMA		Unit: D&E				
PlotStudio			4.1.7763.3				District:								

2017-10-05 16:00	3	13875.00	Diesel-Oil Based Mud	10.2	50	N/A	9.0	69/31	Active Pit	43000	0.00
2017-10-06 16:00	4	15687.00	Diesel-Oil Based Mud	10.4	64	N/A	9.2	68/32	Active Pit	47000	0.00
2017-10-07 04:00	4	15772.00	Diesel-Oil Based Mud	10.3	66	N/A	9.4	68/32	Active Pit	43000	0.00
2017-10-07 16:00	4	17650.00	Diesel-Oil Based Mud	10.2	51	N/A	9.4	70/30	Active Pit	46000	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	ZAPS230939	Gamma (single)	9.99	53.70	8.000	3.250
1	Sensor Sub	ZAPS230939	Directional (mag)	11.23	54.94	8.000	3.250
1	Sensor Sub	ZAPS230939	VSS	11.23	54.94	8.000	3.250
1	Sensor Sub	ZAPS230939	Pressure	31.80	75.51	8.000	3.250
2	Sensor Sub	ZAPS230931	Gamma (single)	9.12	52.83	8.000	3.250
2	Sensor Sub	ZAPS230931	VSS	10.45	54.16	8.000	3.250
2	Sensor Sub	ZAPS230931	Directional (mag)	10.45	54.16	8.000	3.250
2	Sensor Sub	ZAPS230931	Pressure	31.29	75.00	8.000	3.250
3	ATC_SU	12406997	Near Bit VSS	5.93	6.73	7.000	4.330
3	ATC_SU	12406997	Near Bit Inclination	5.93	6.73	7.000	4.330
3	ATC_MWD	14146740	Gamma (single)	2.75	12.90	7.000	3.250
3	ATC_MWD	14146740	Directional (mag)	12.27	22.42	7.000	3.250
4	ATC_SU	12406997	Near Bit VSS	5.93	6.73	7.000	4.330
4	ATC_SU	12406997	Near Bit Inclination	5.93	6.73	7.000	4.330
4	ATC_MWD	14146740	Gamma (single)	2.75	12.90	7.000	3.250
4	ATC_MWD	14146740	Directional (mag)	12.27	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	Baker Hughes LWD Runs 1 and 2 utilized 8 inch EM service (Directional only) behind a 13 1/2 inch bit and steerable assembly from surface to 1820 feet MD (surface to 1798 feet TVD). No logging data was acquired during this run.
3	Baker Hughes LWD Runs 3 and 4 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 1/2 bit and rotary steerable assembly from 1820 to 18908 feet MD (1798 to 7164 feet TVD).
4	Gamma Ray Curves (GRAM) are presented 0 to 300 API per customer request.

Remarks

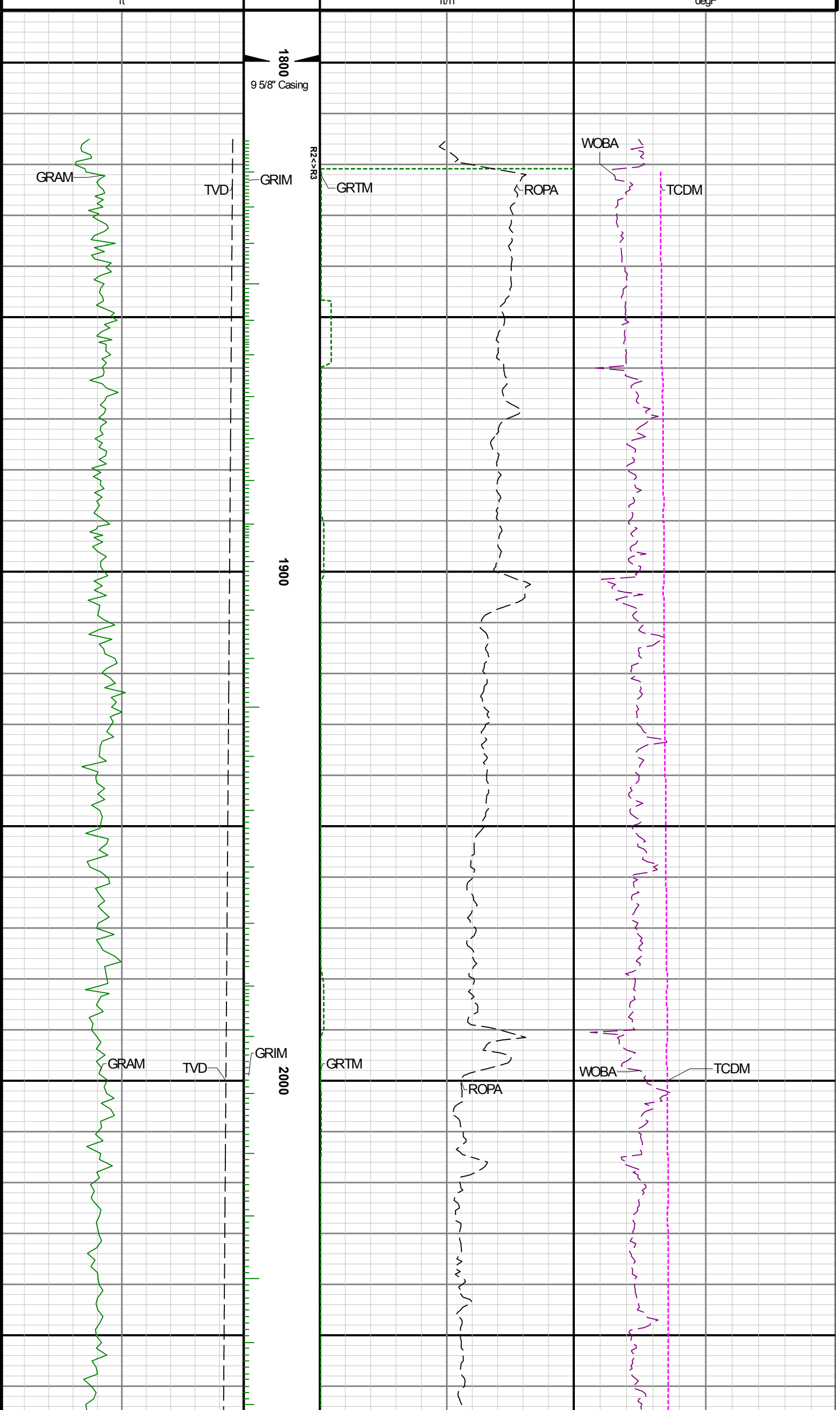
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	15680.00	8.500	3	The interval from 15671 to 15684 feet MD (7192 feet TVD) was not logged up to 24 hours later due to tripping for a bit and motor.
2	18900.00	8.500	4	The interval from 18895 to 18908 feet MD (7164 feet TVD) was not logged due to sensor to bit offset at well TD.

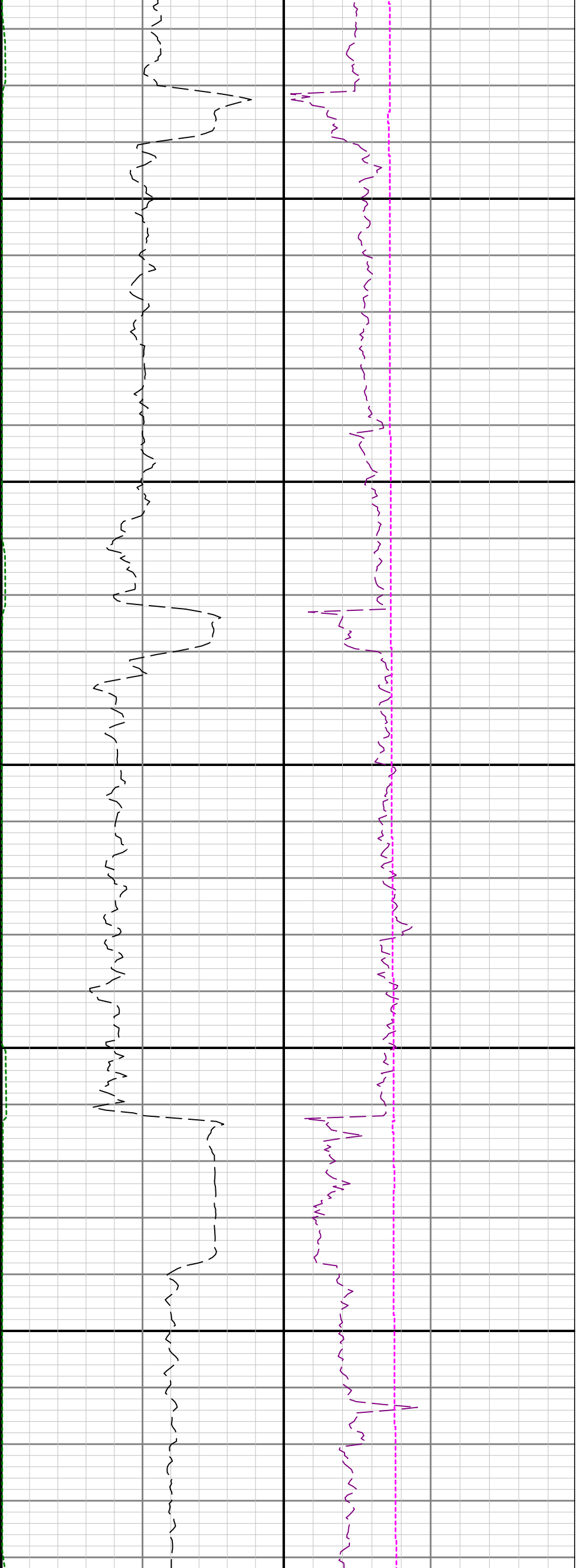
Curve Mnemonics

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	Falken 9N-9C-L			
	Interval	Date From:	2017-09-15 20:10:19	Top:	1815.00
	Created	Date To:	2017-10-07 22:51:24	Bottom:	18909.00
		2017-10-08	16:52:23		

Gamma Ray - Apparent 0.5 ft Average GRAM	MD 1:240 feet	Gamma Time Since Drilled GRTM	Weight On Bit, Average 1 ft Average WOBA
0 300		0 600	0 50
API		min	klb
True Vertical Depth TVD		Depth Averaged ROP 3 ft Average ROPA	Downhole Temperature TCDM
8000 1500		1000 0	0 275

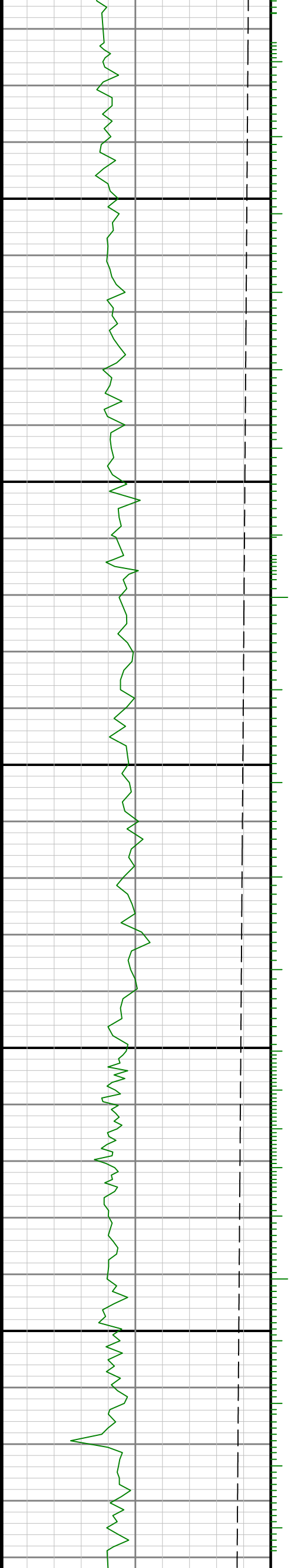


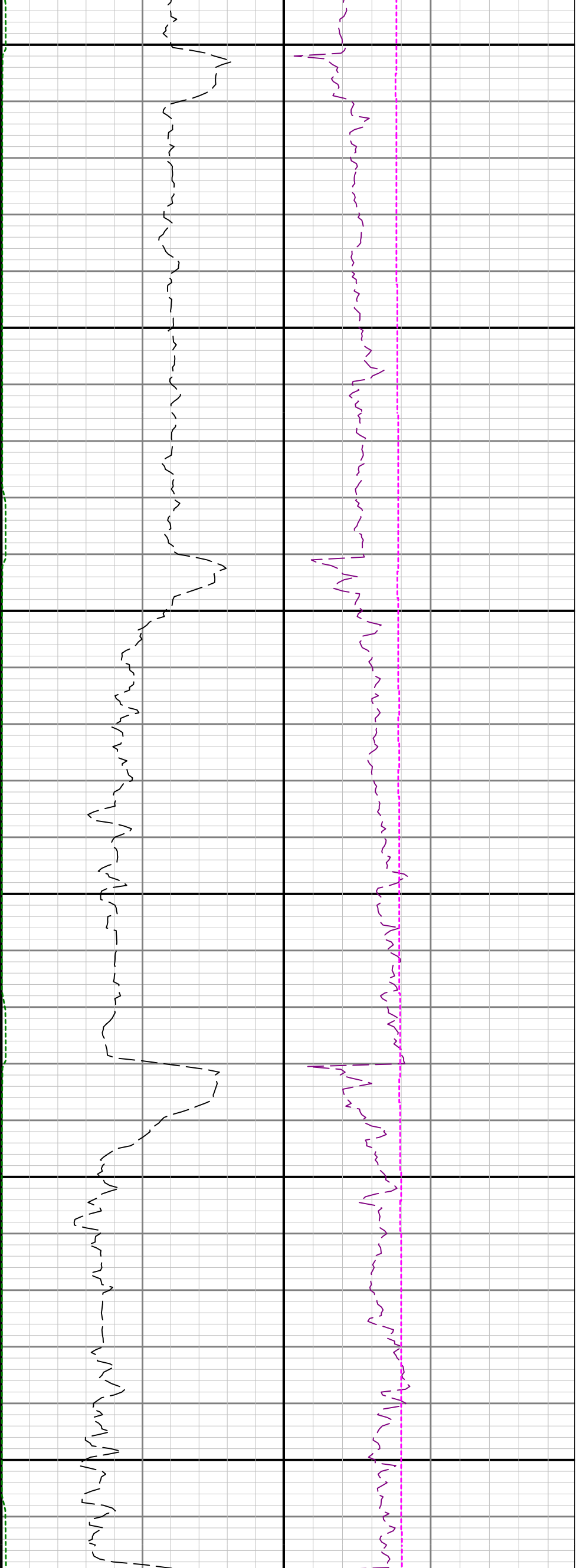


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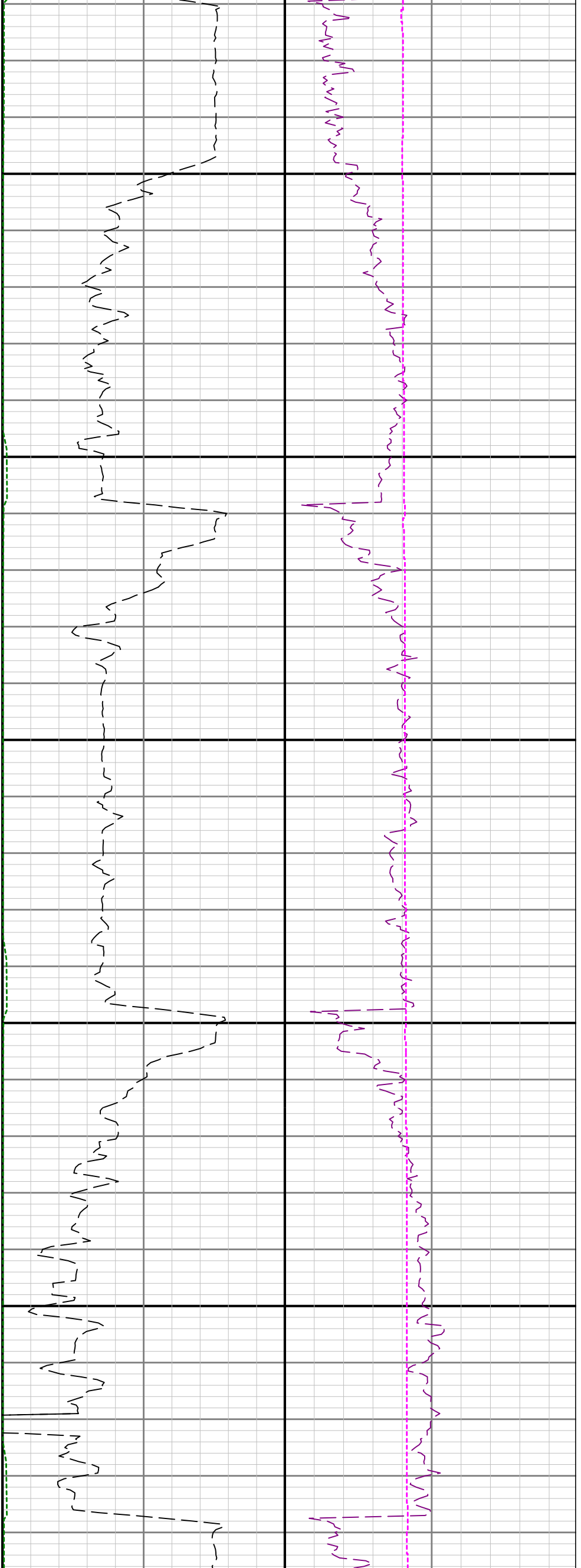




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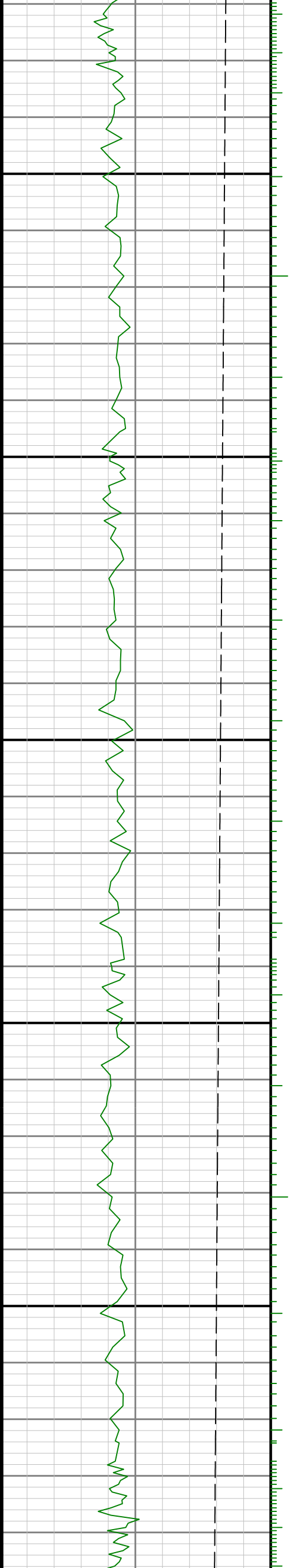
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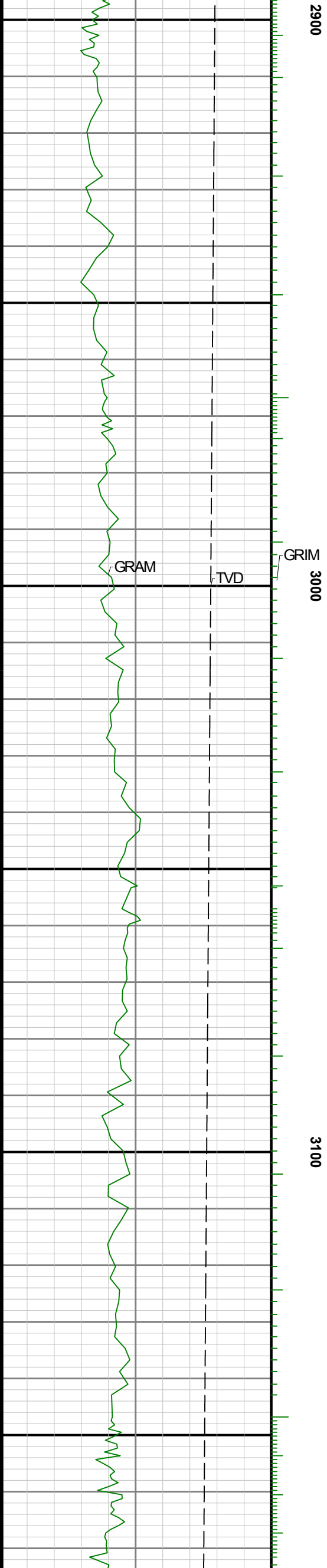
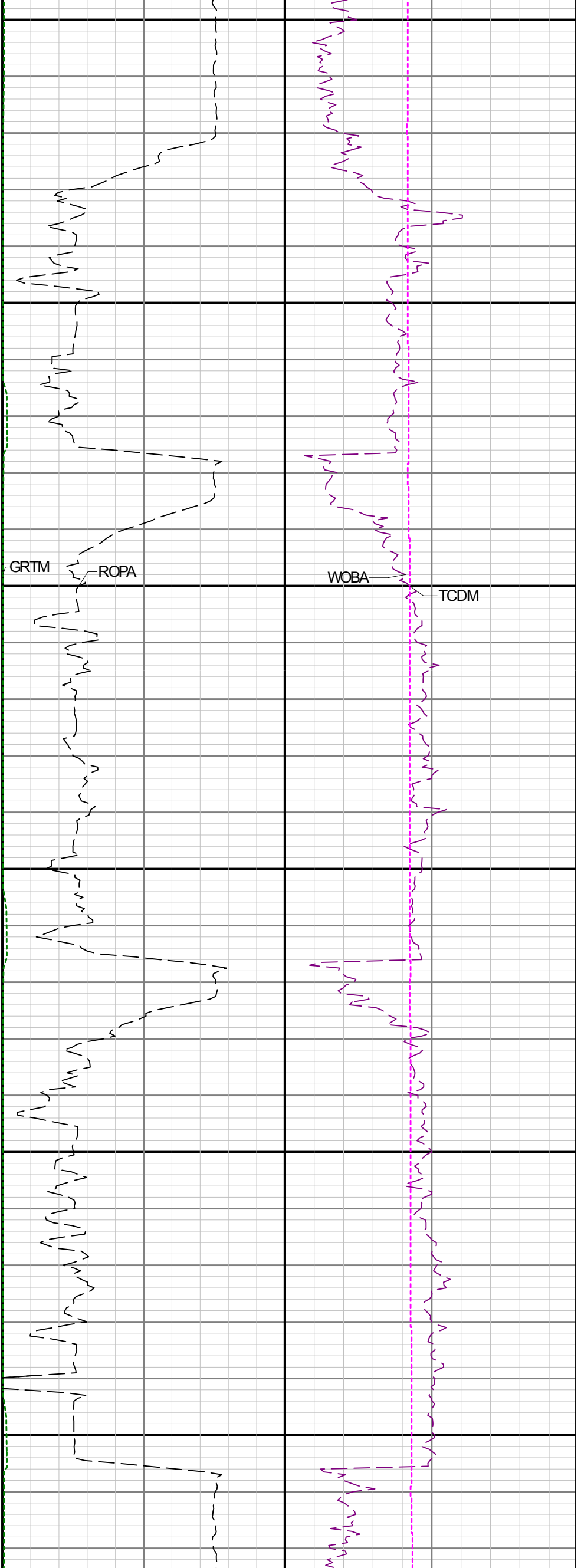
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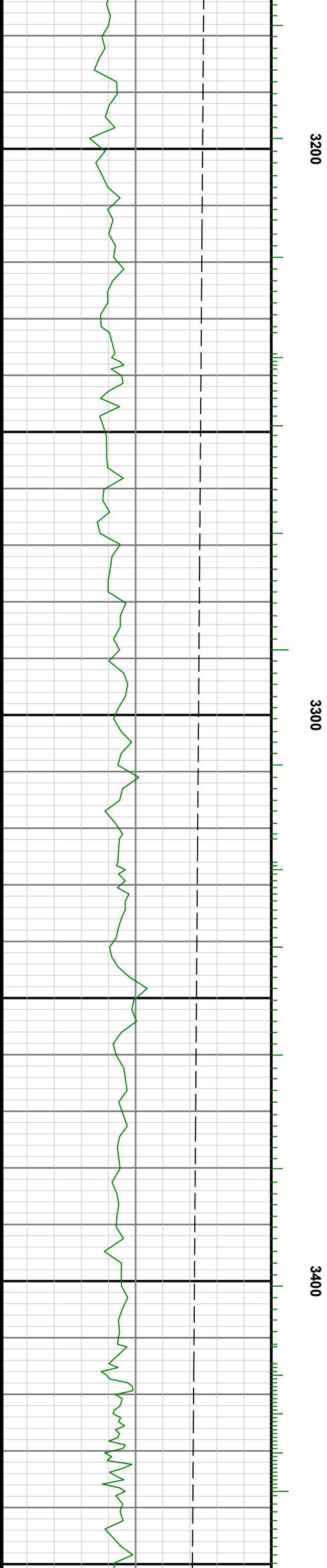
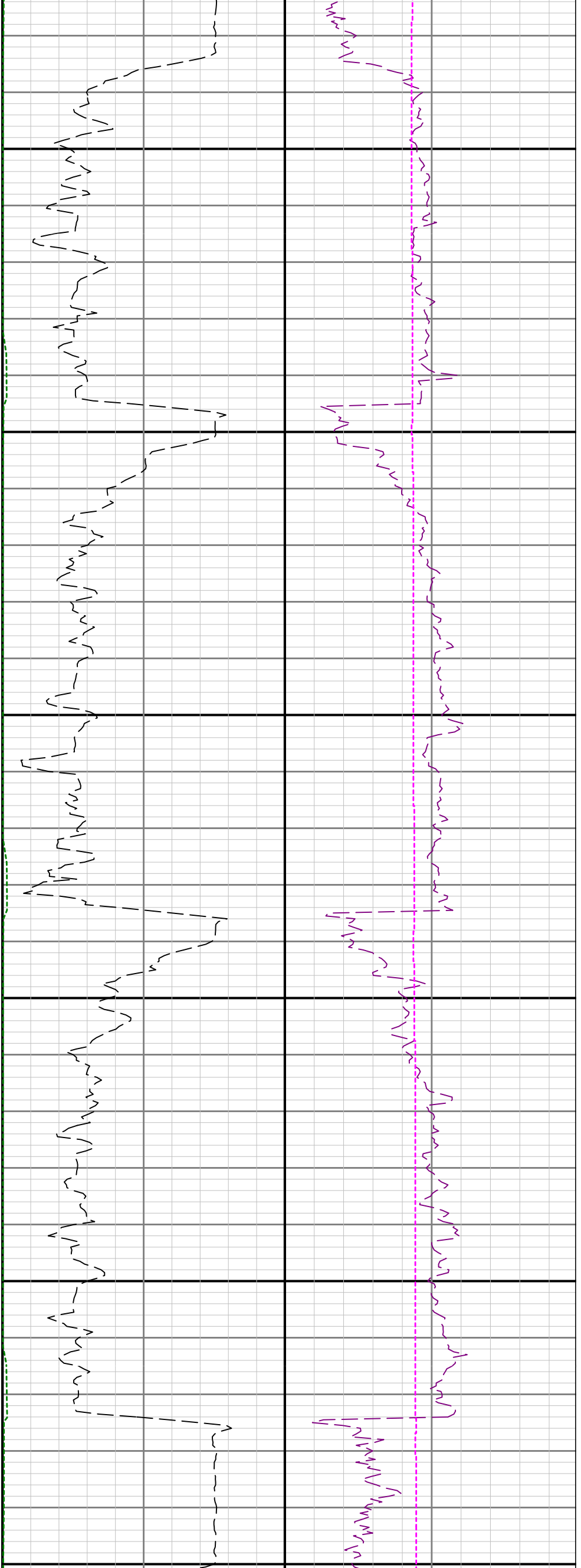


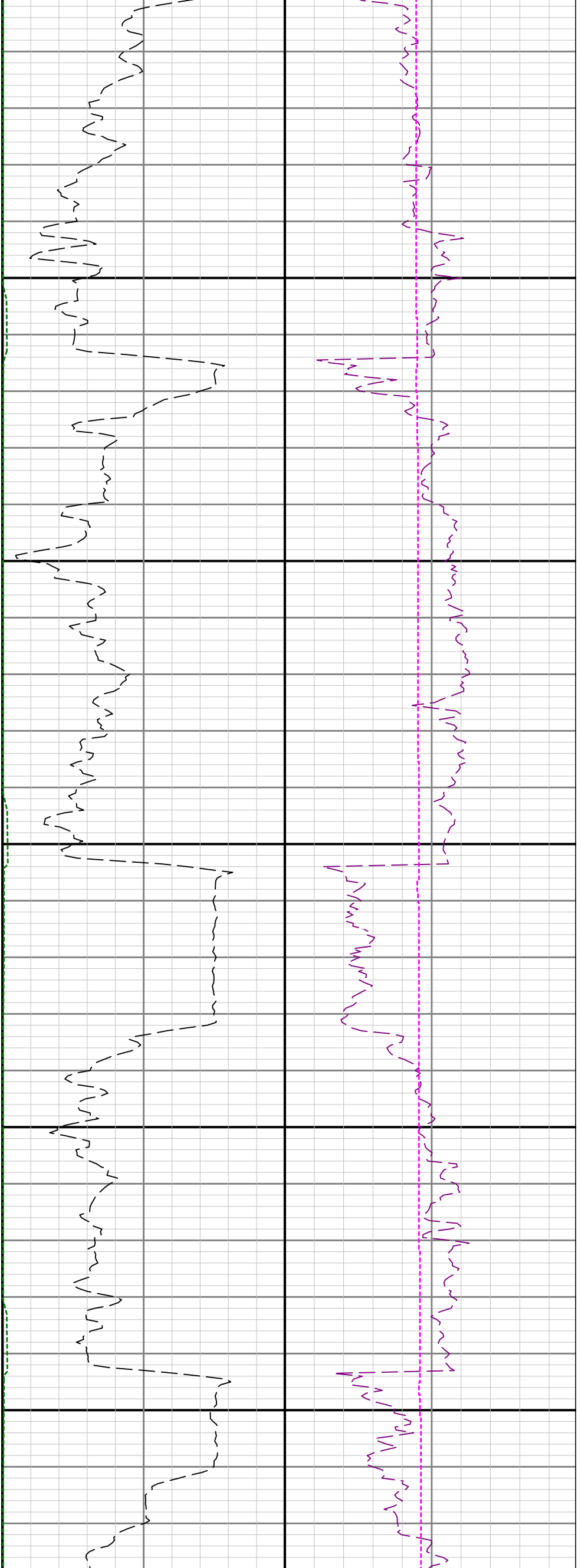
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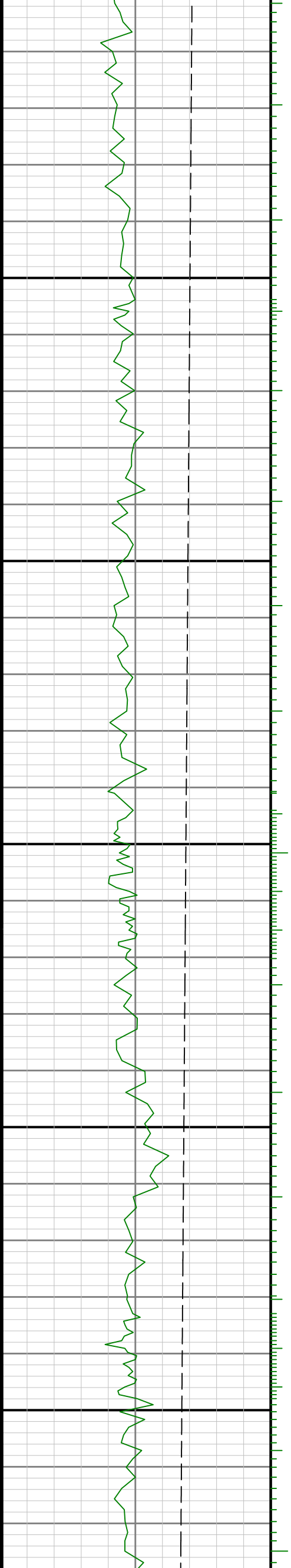


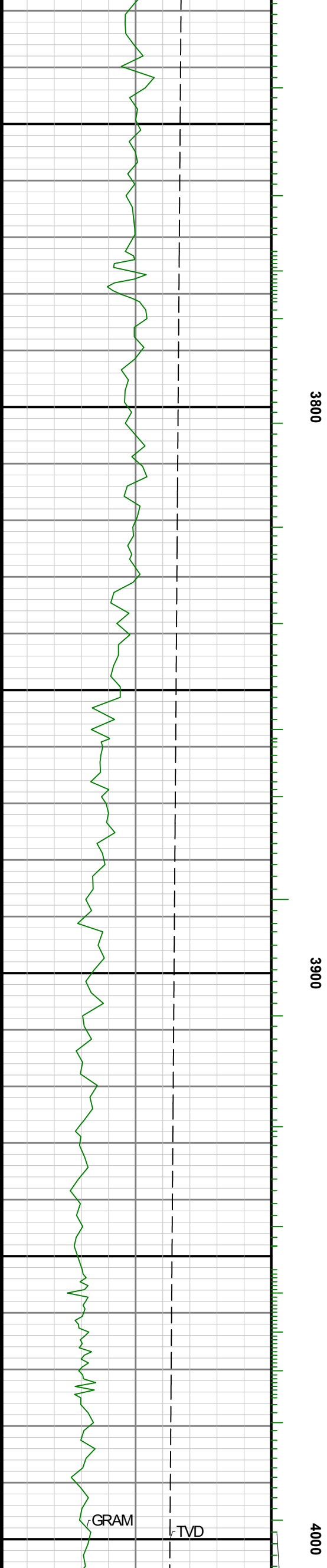
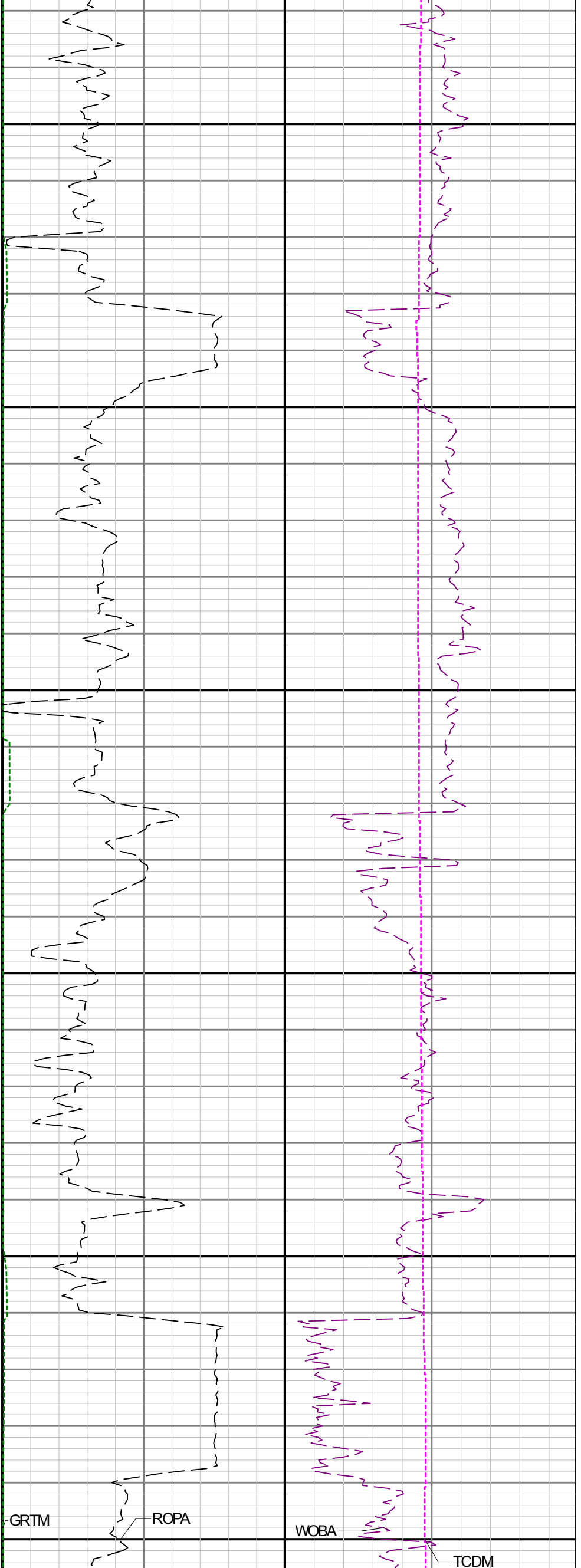


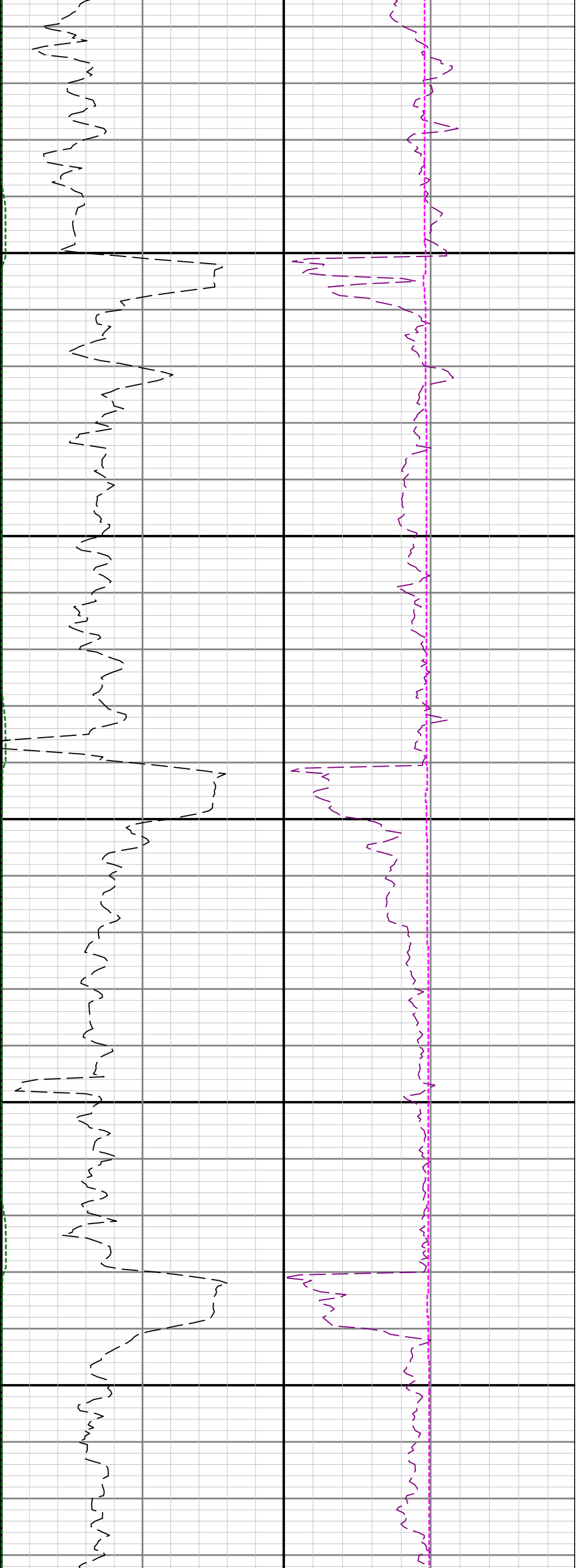
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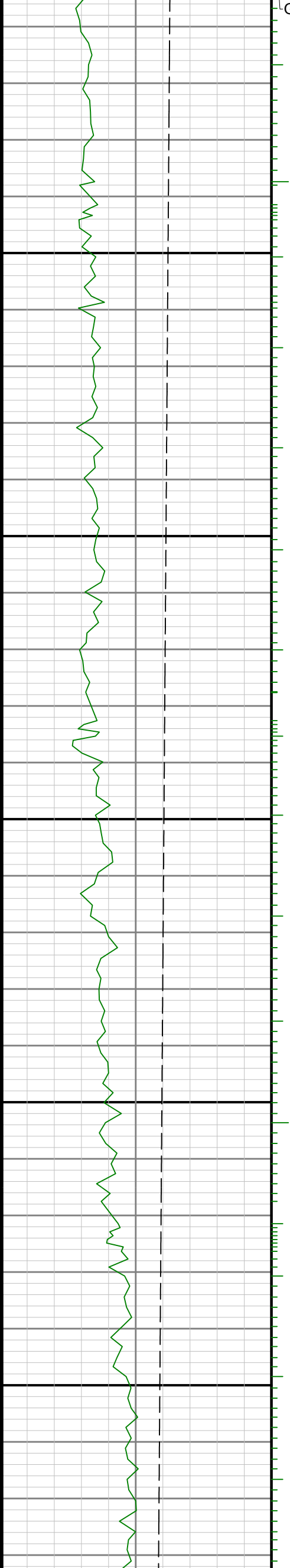


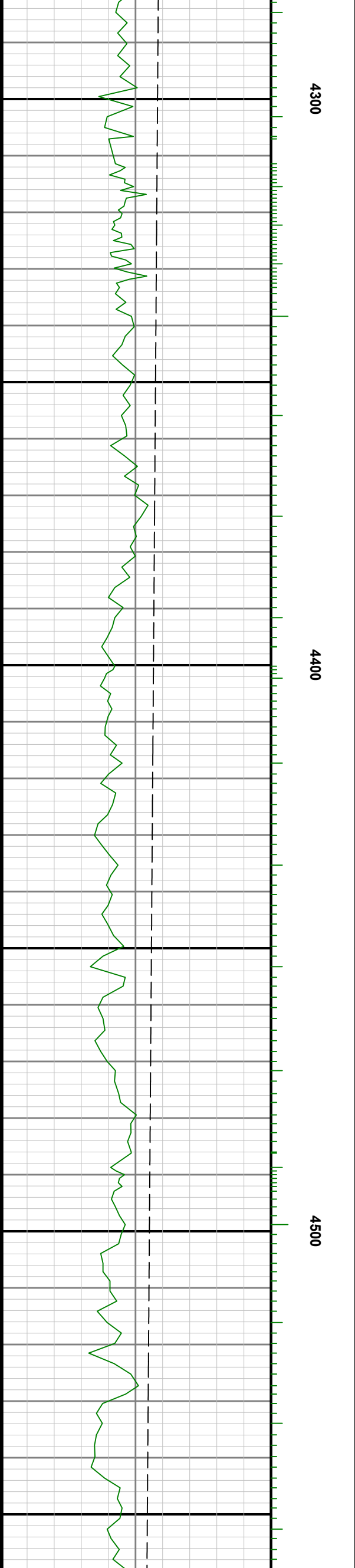
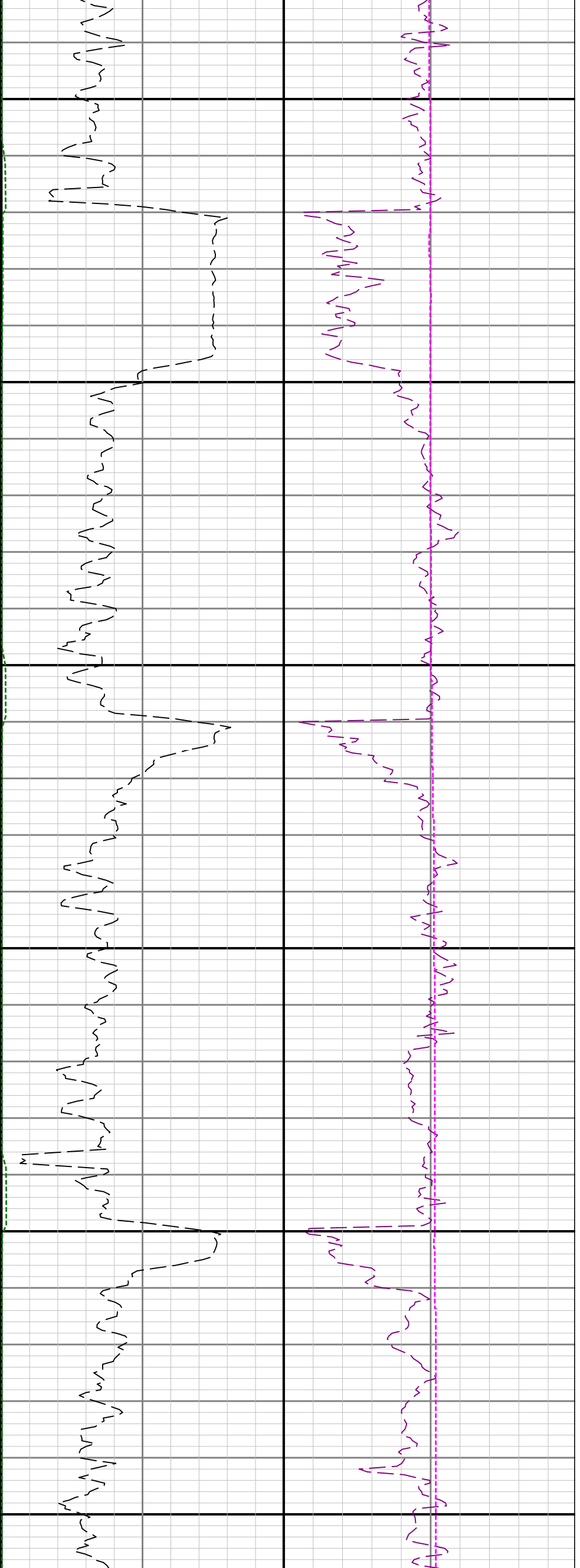


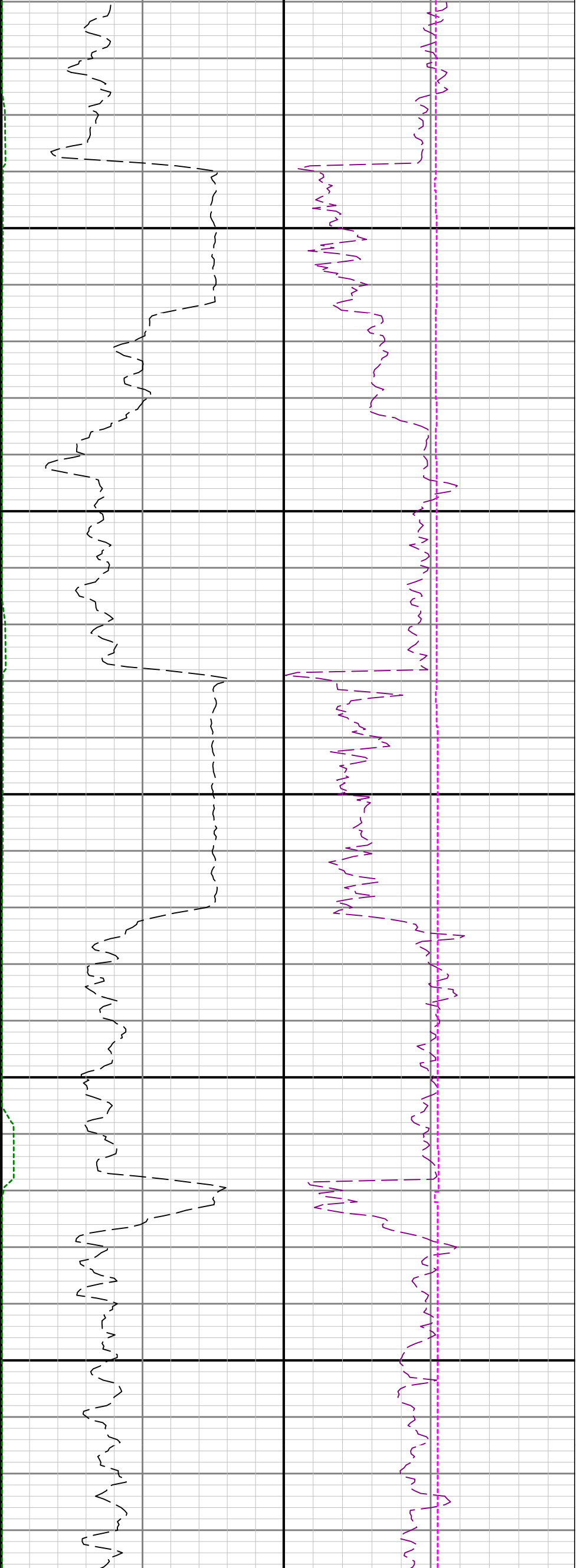
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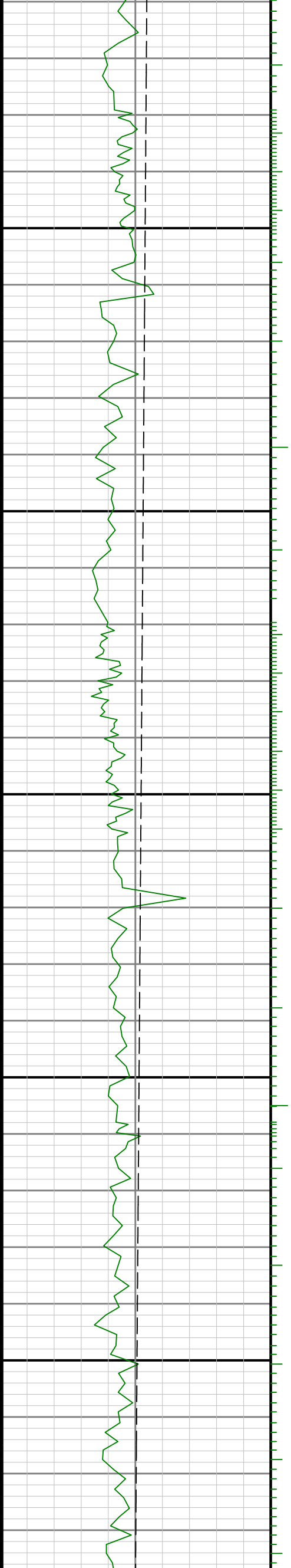


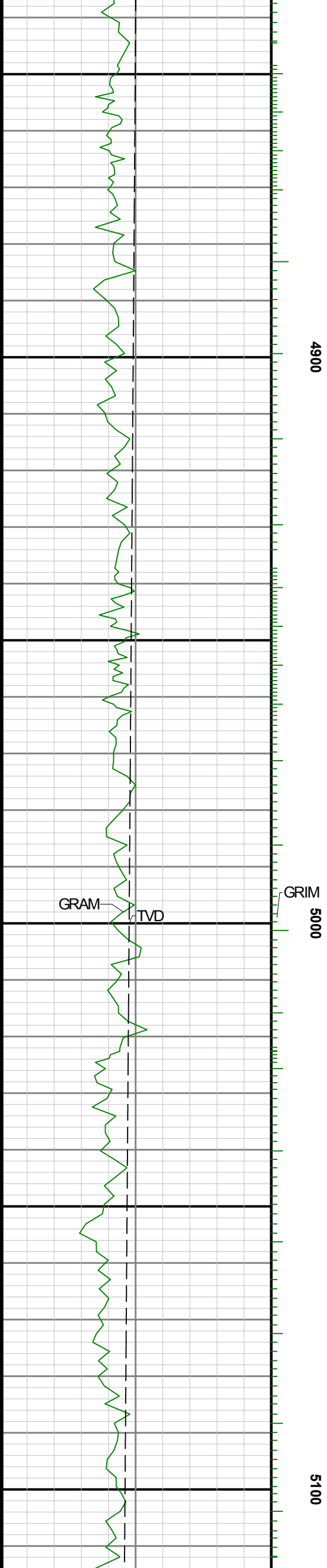
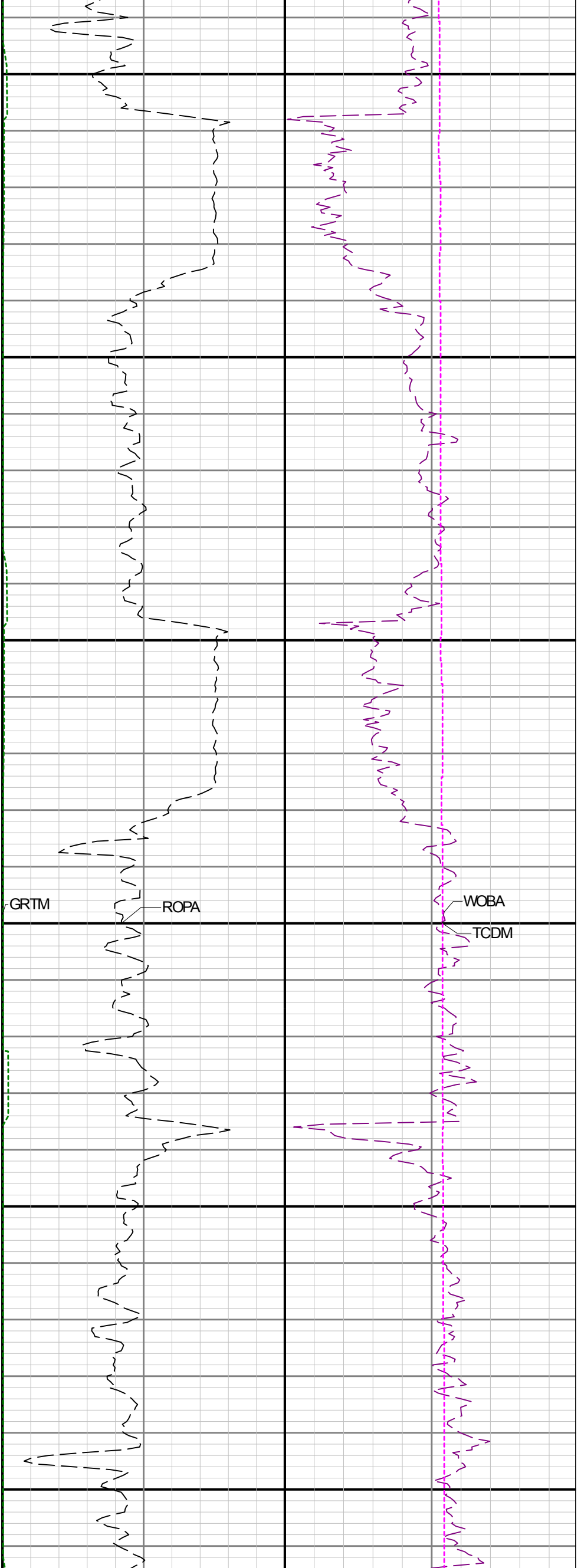


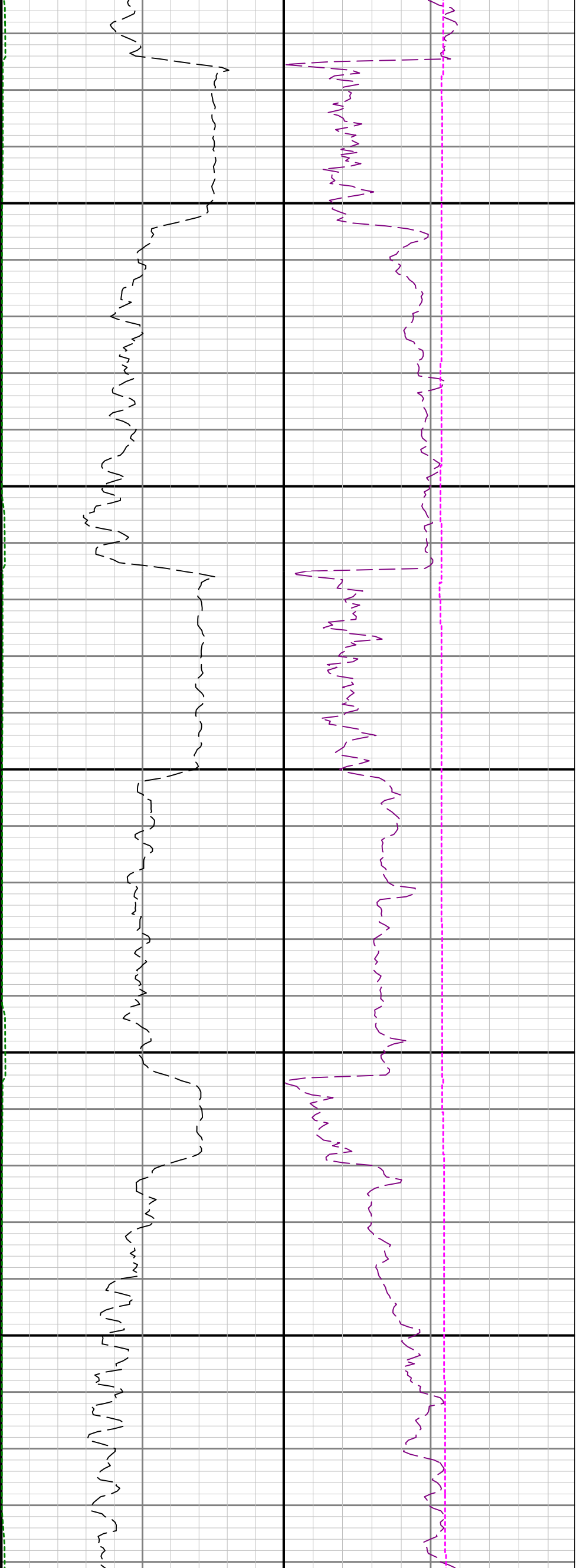
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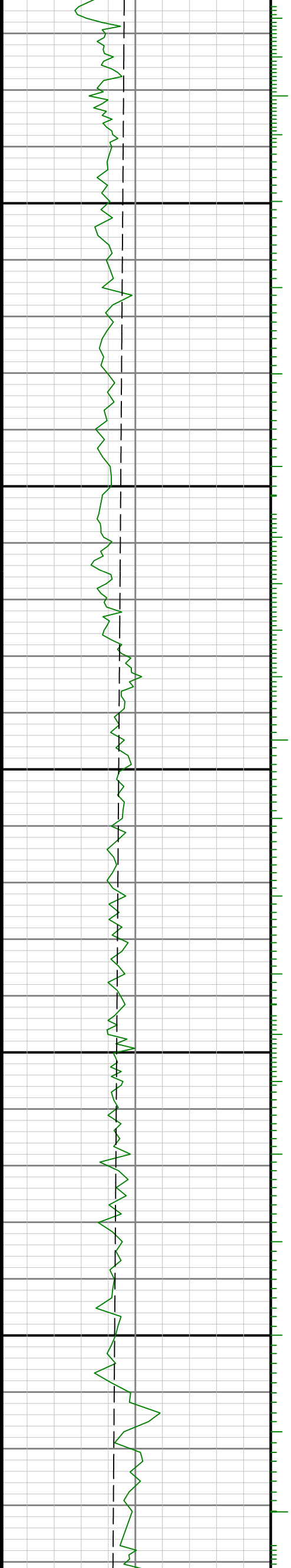


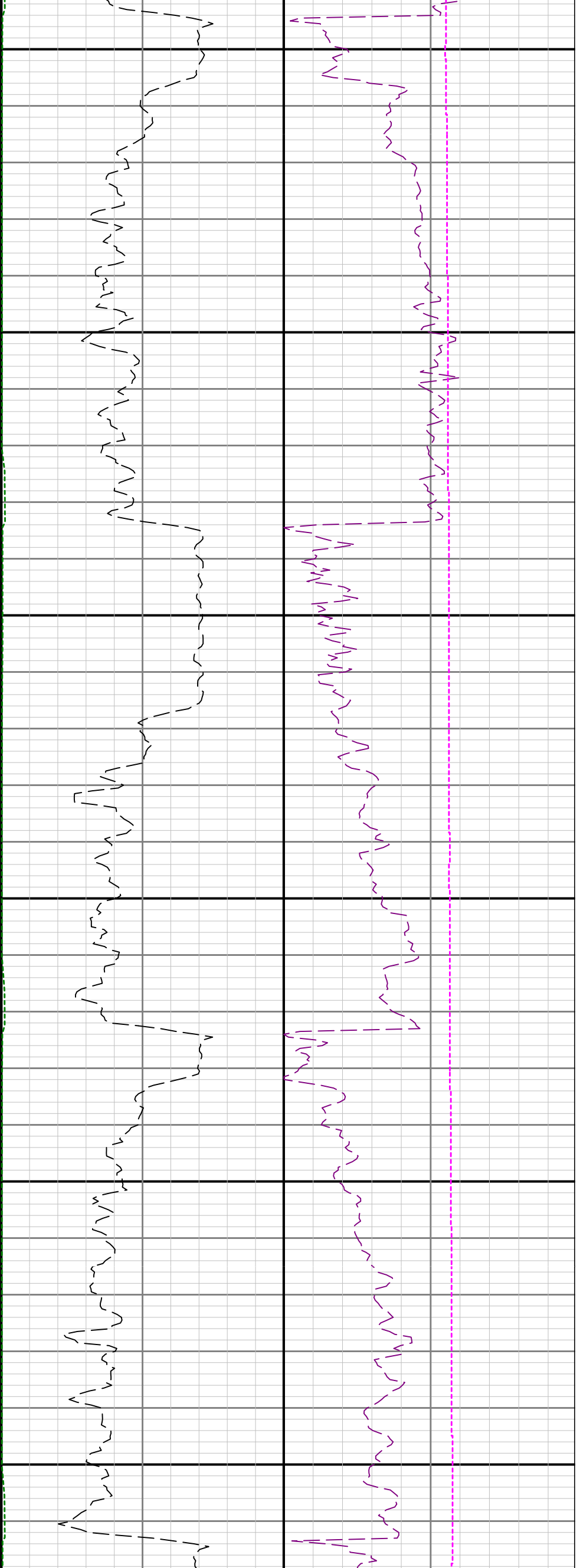




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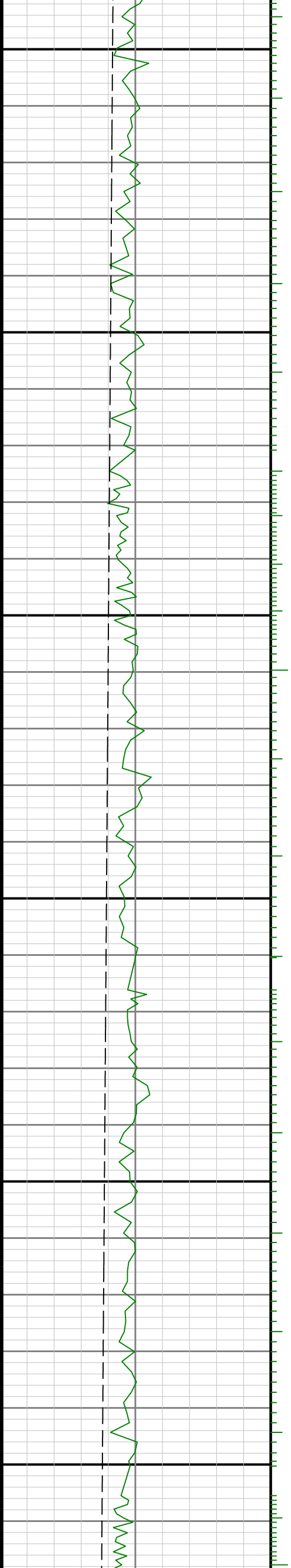


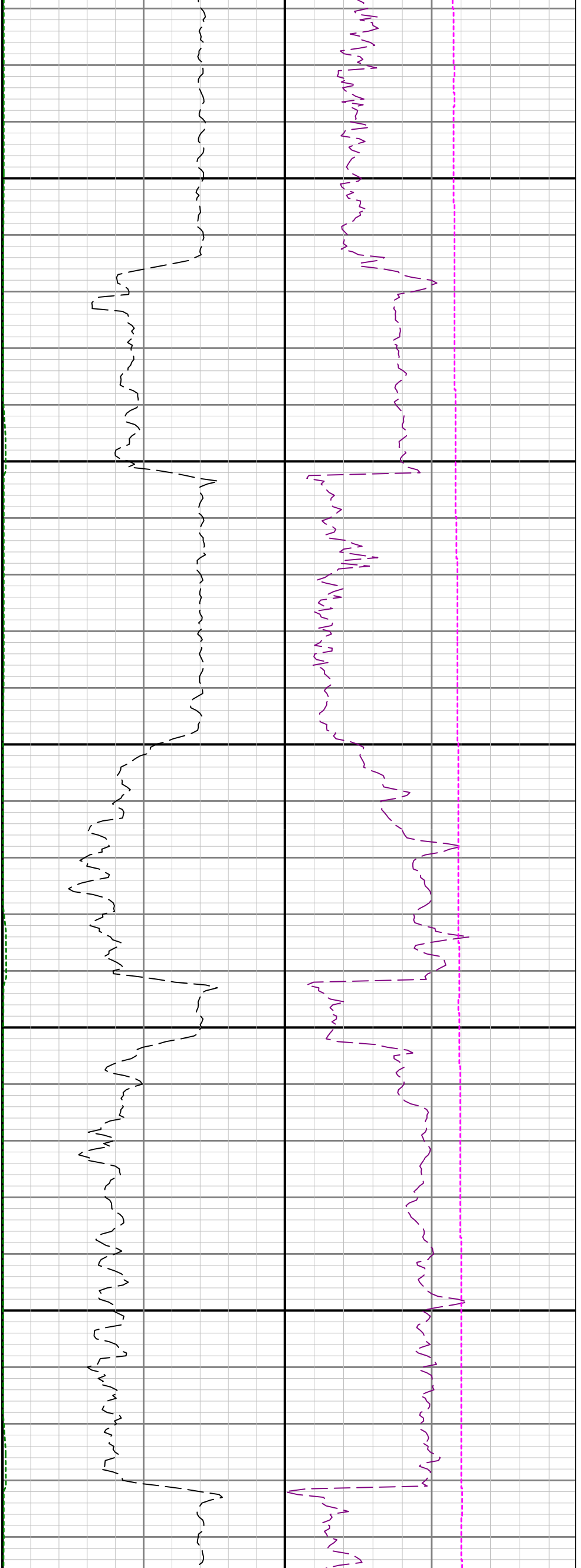


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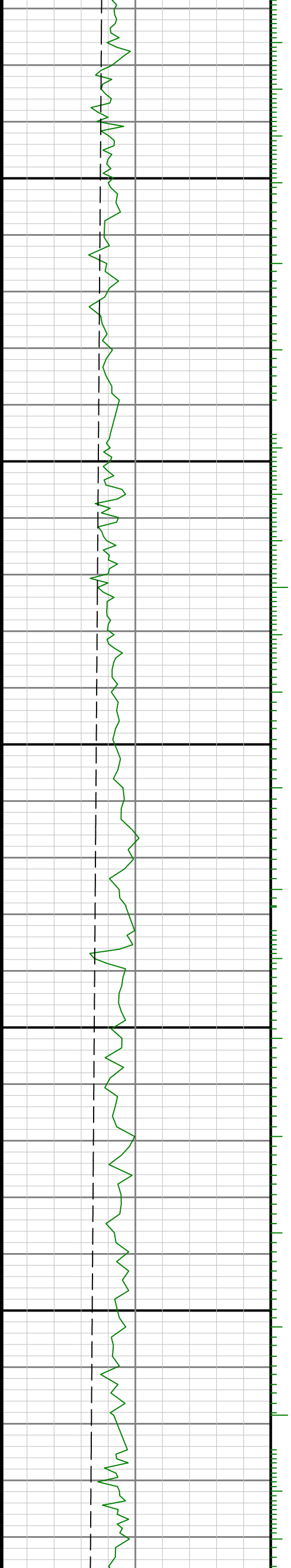


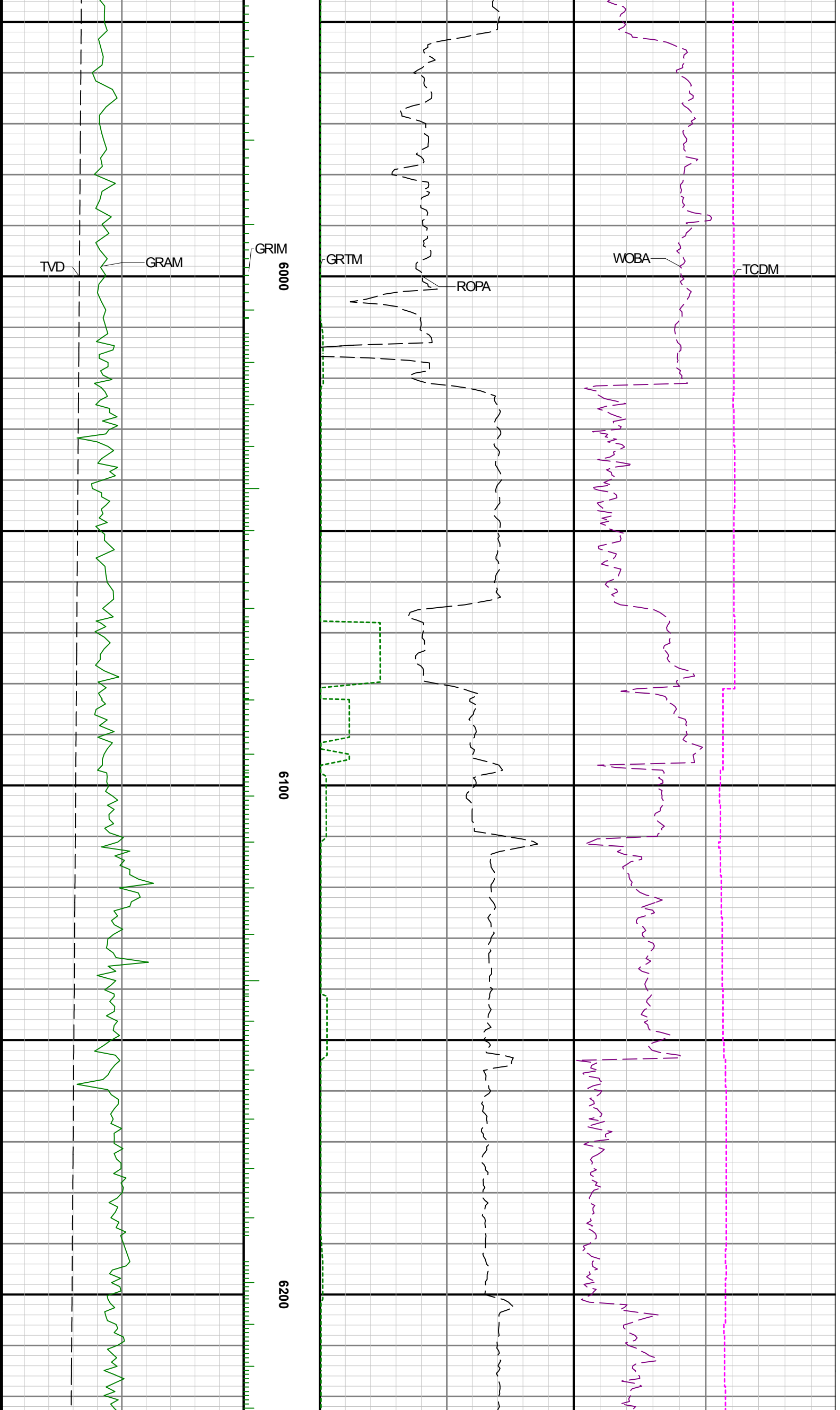


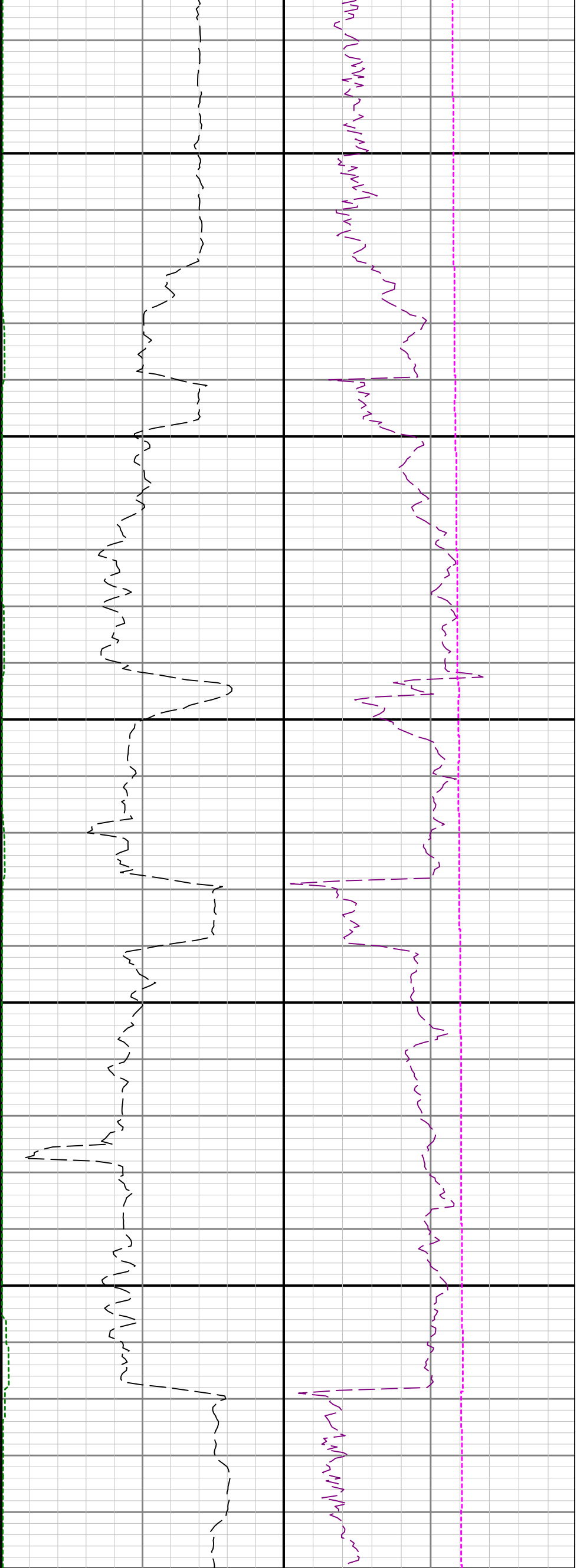
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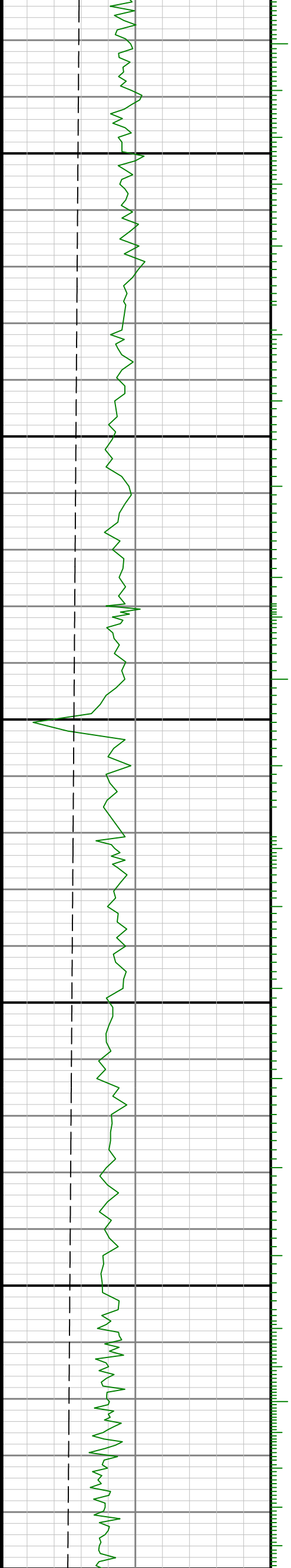


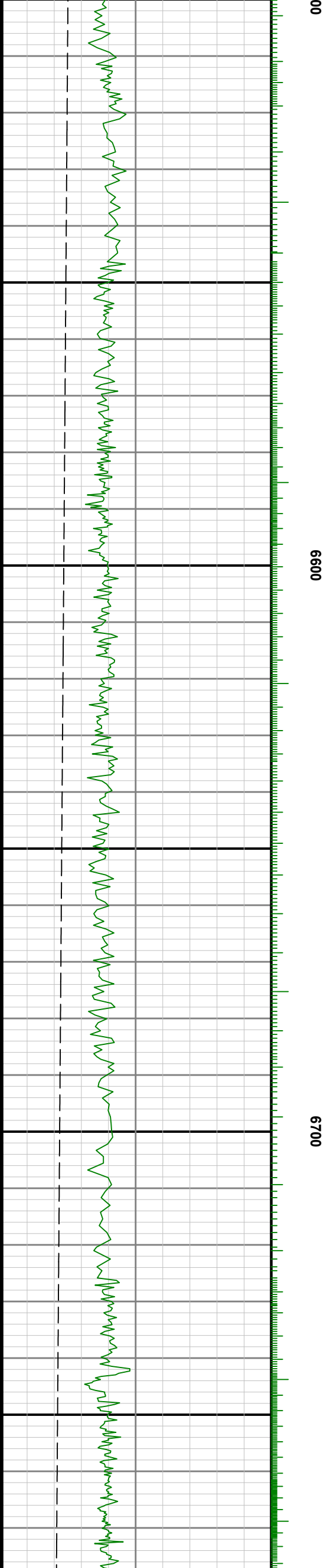
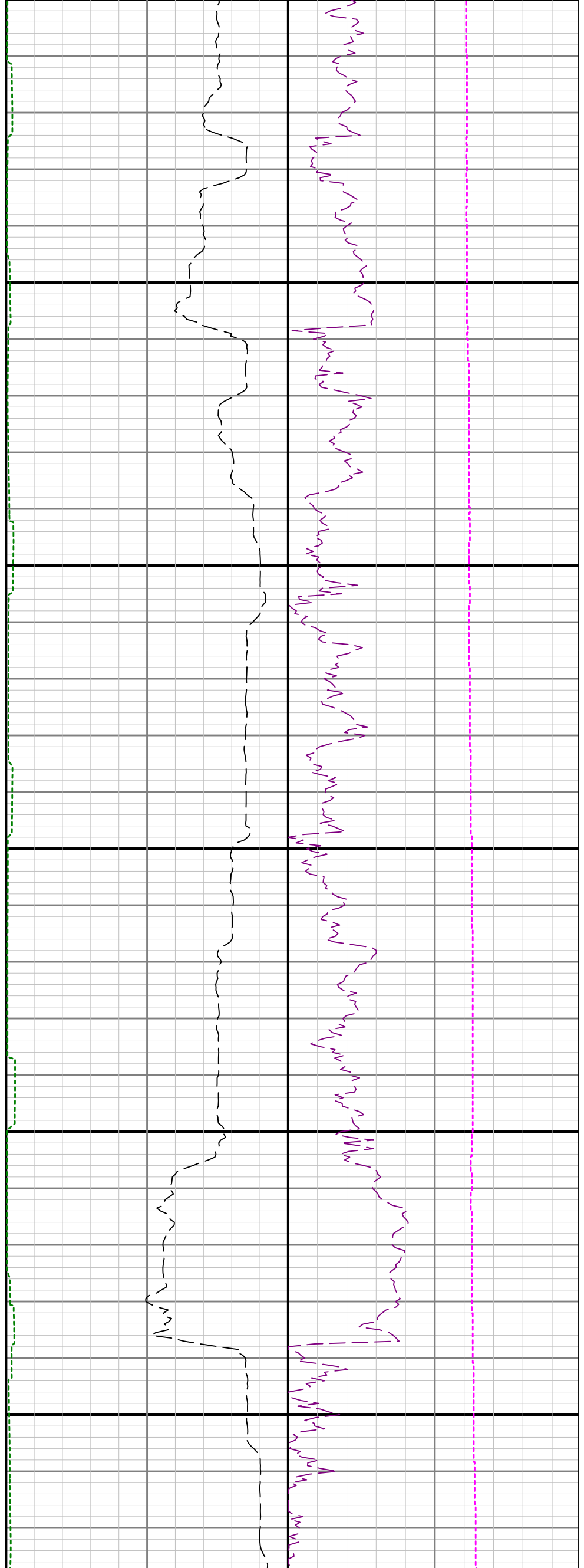


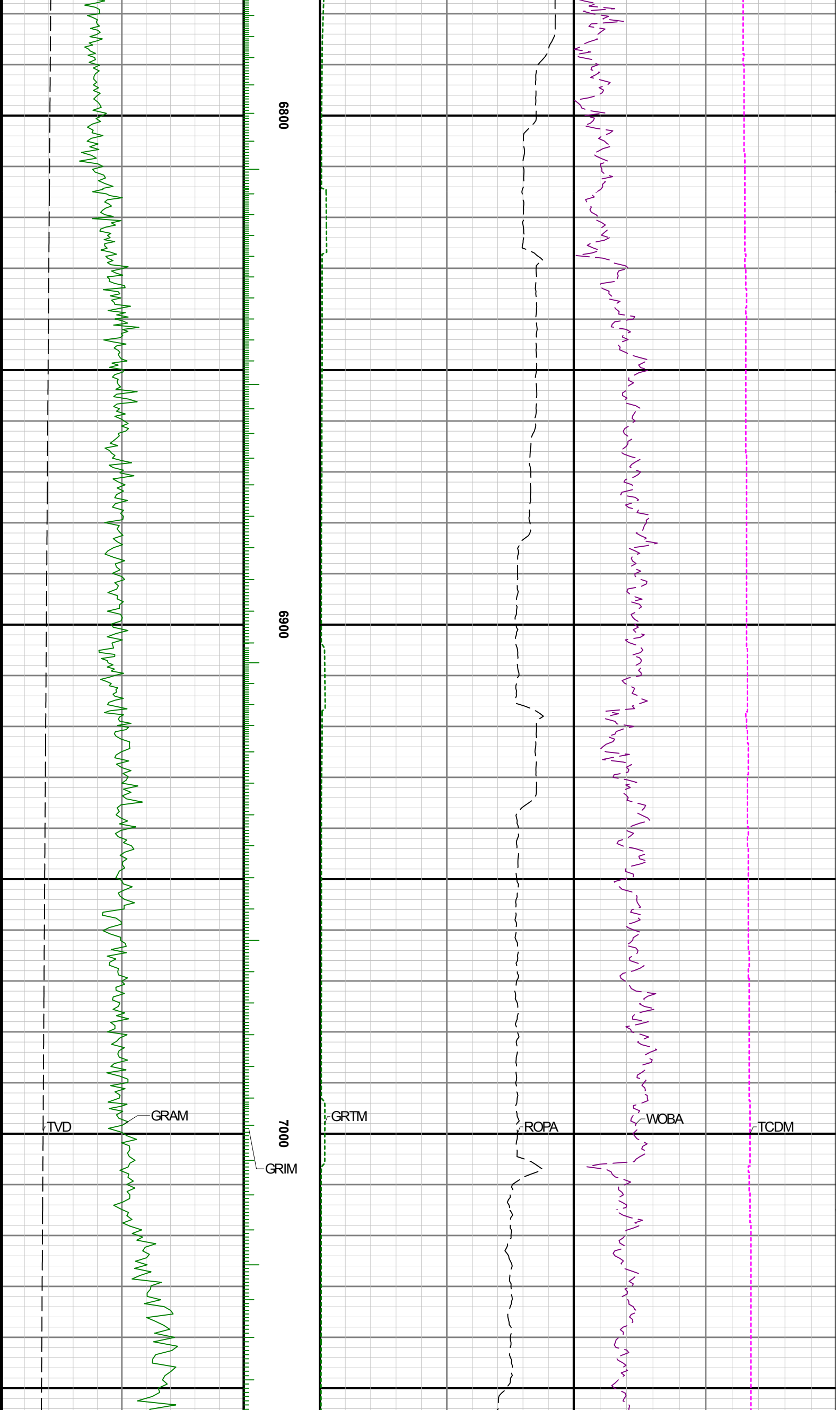
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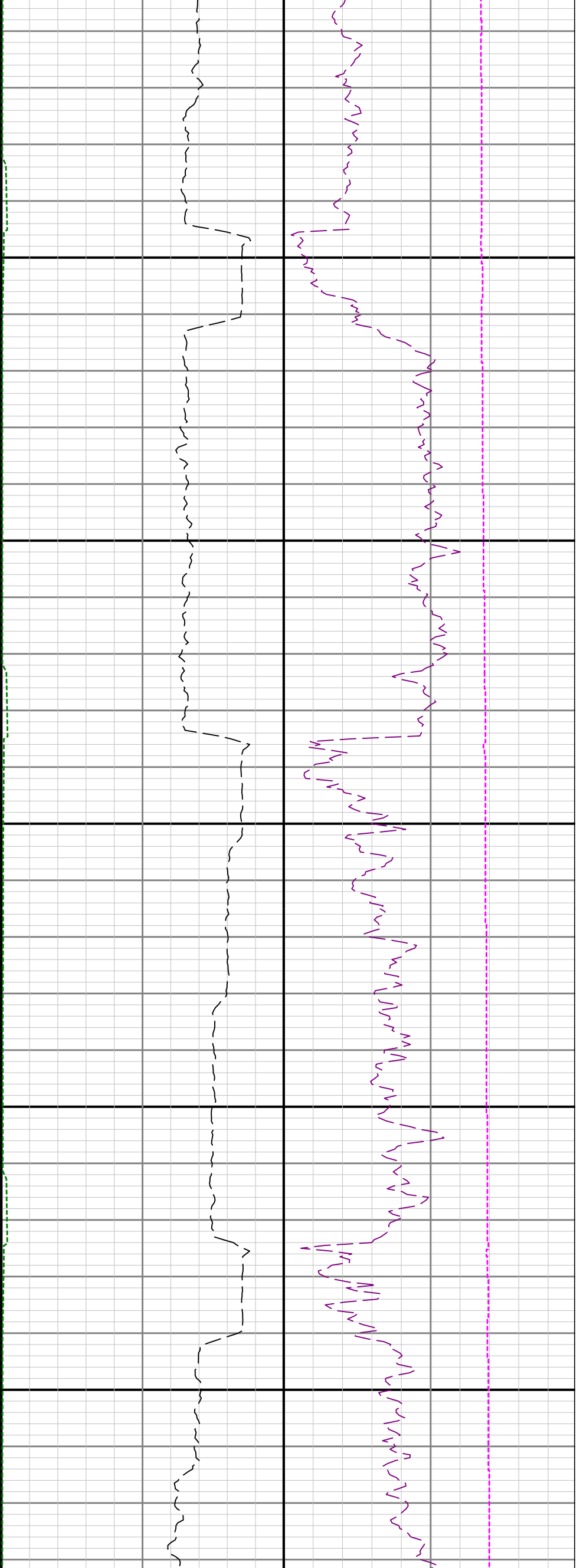
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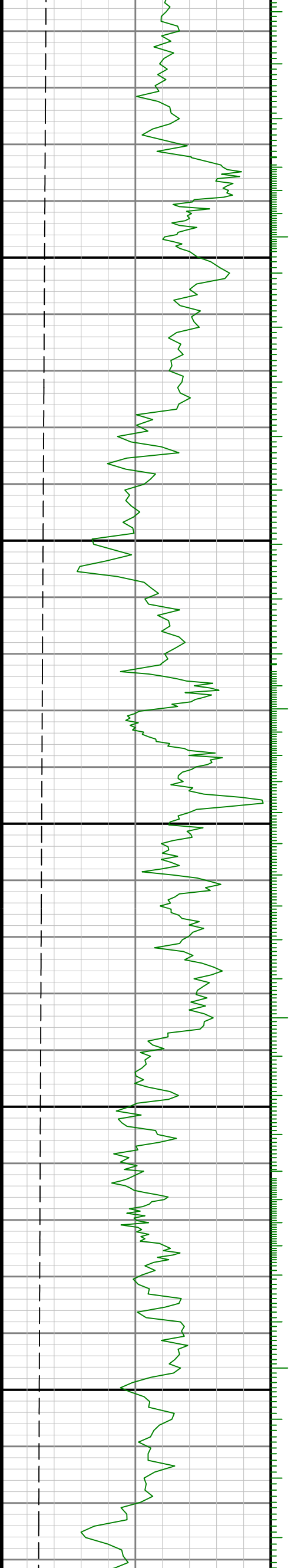


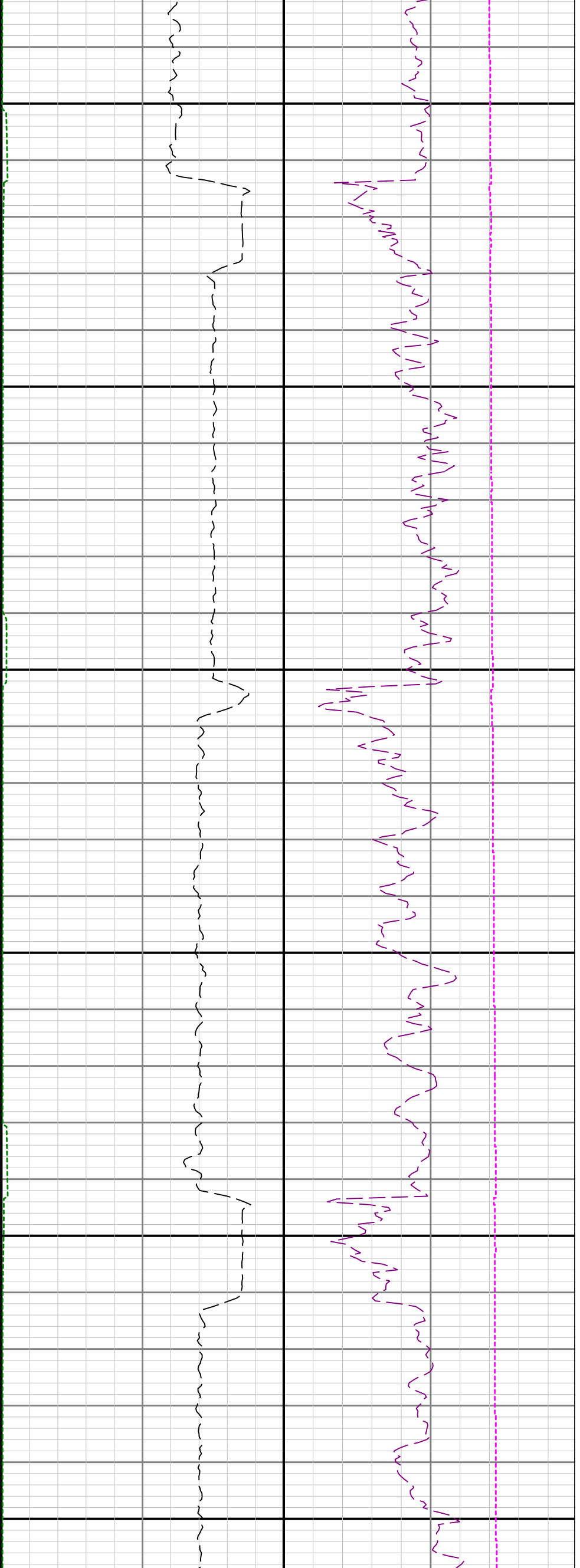


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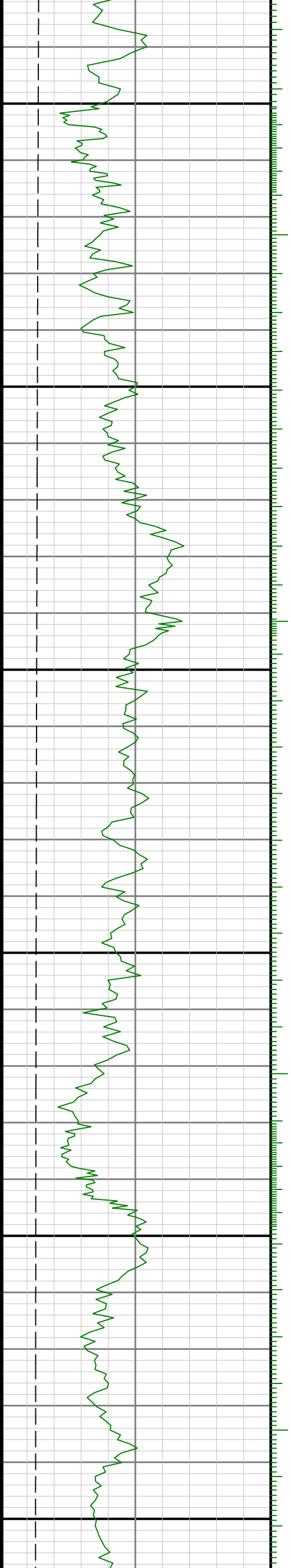


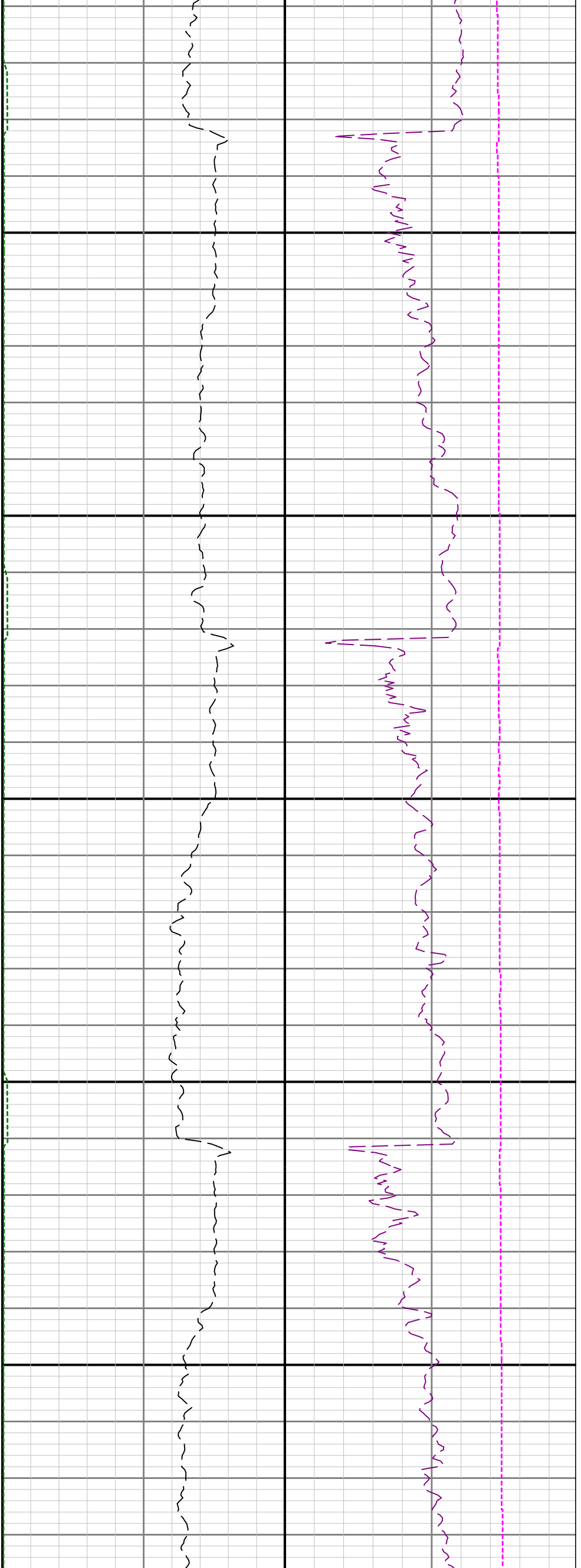


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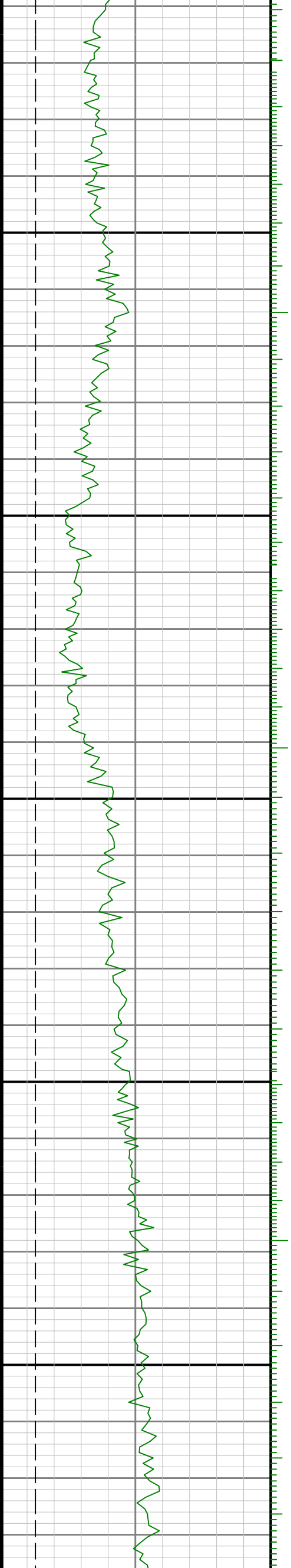
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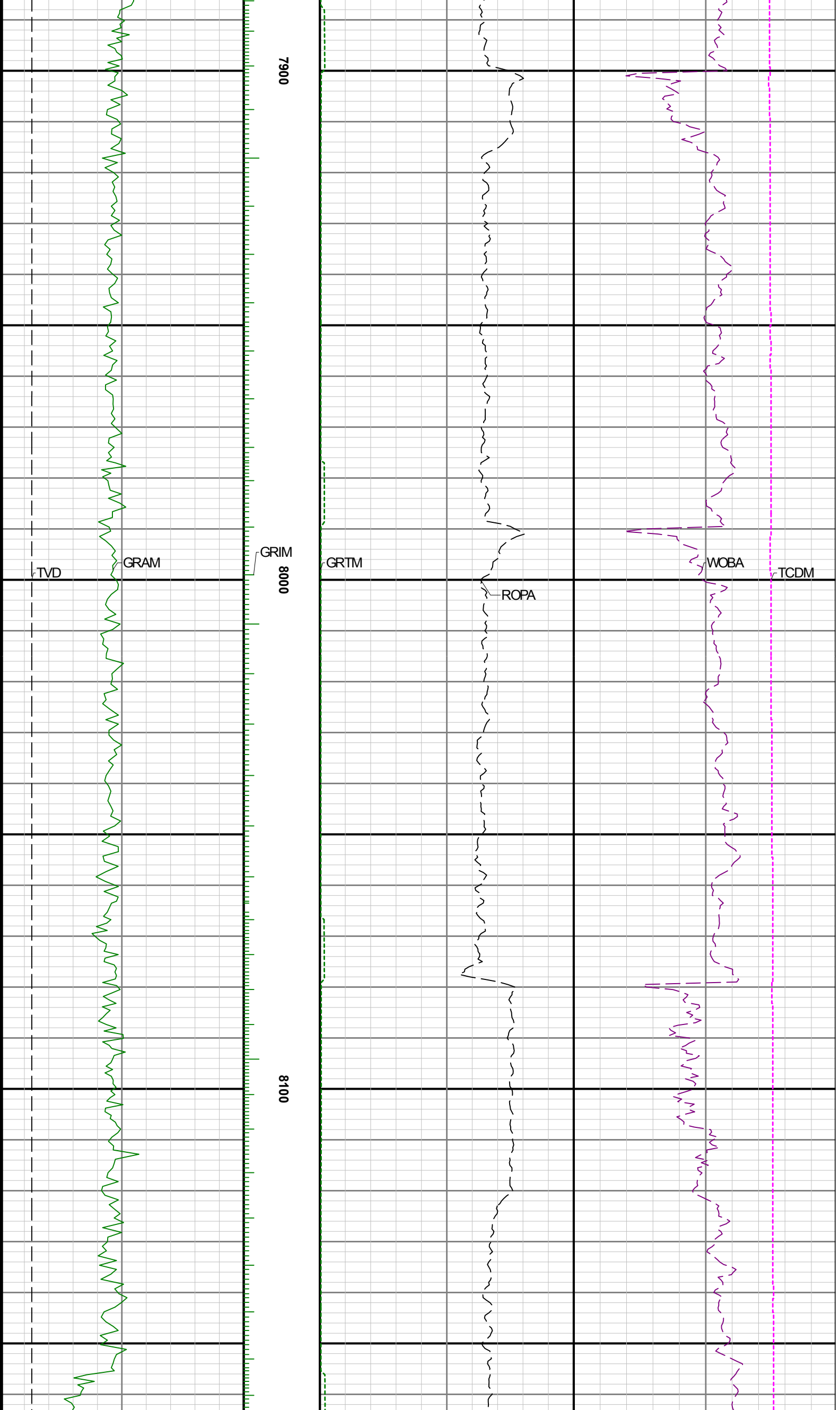




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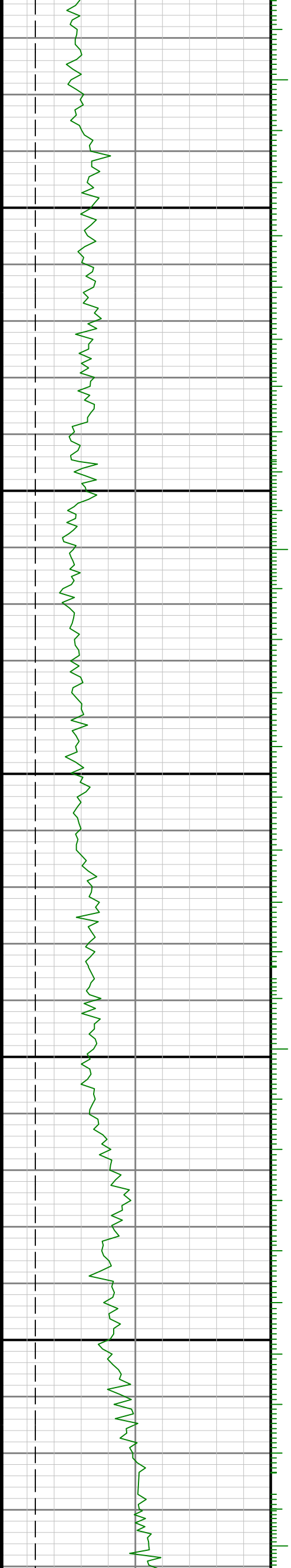


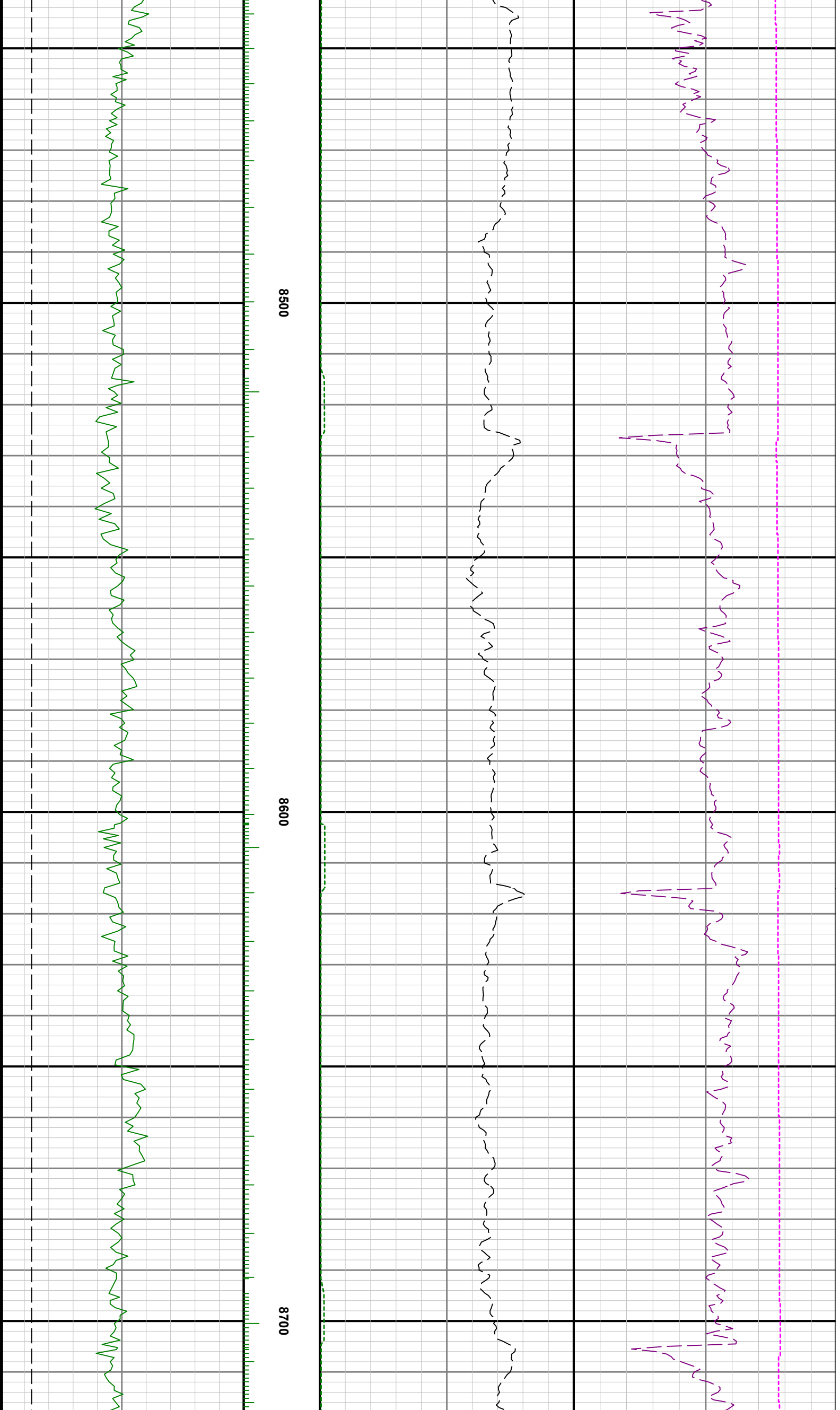


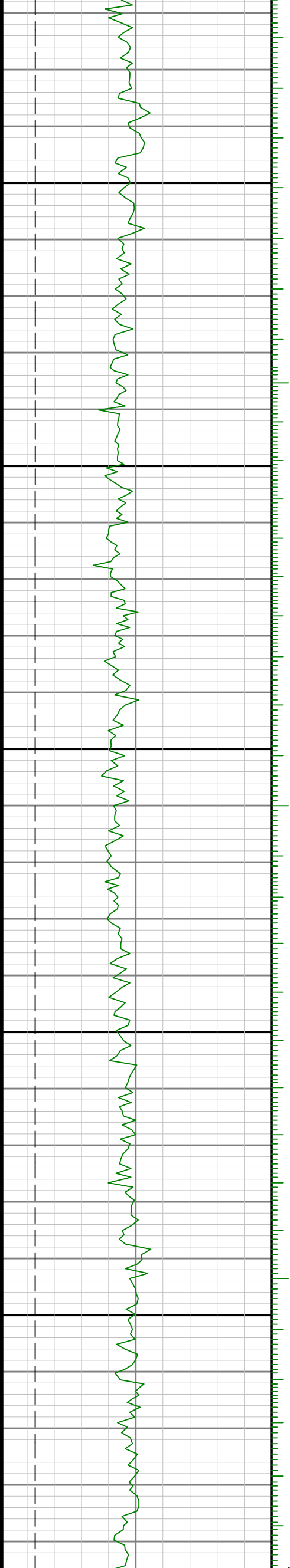
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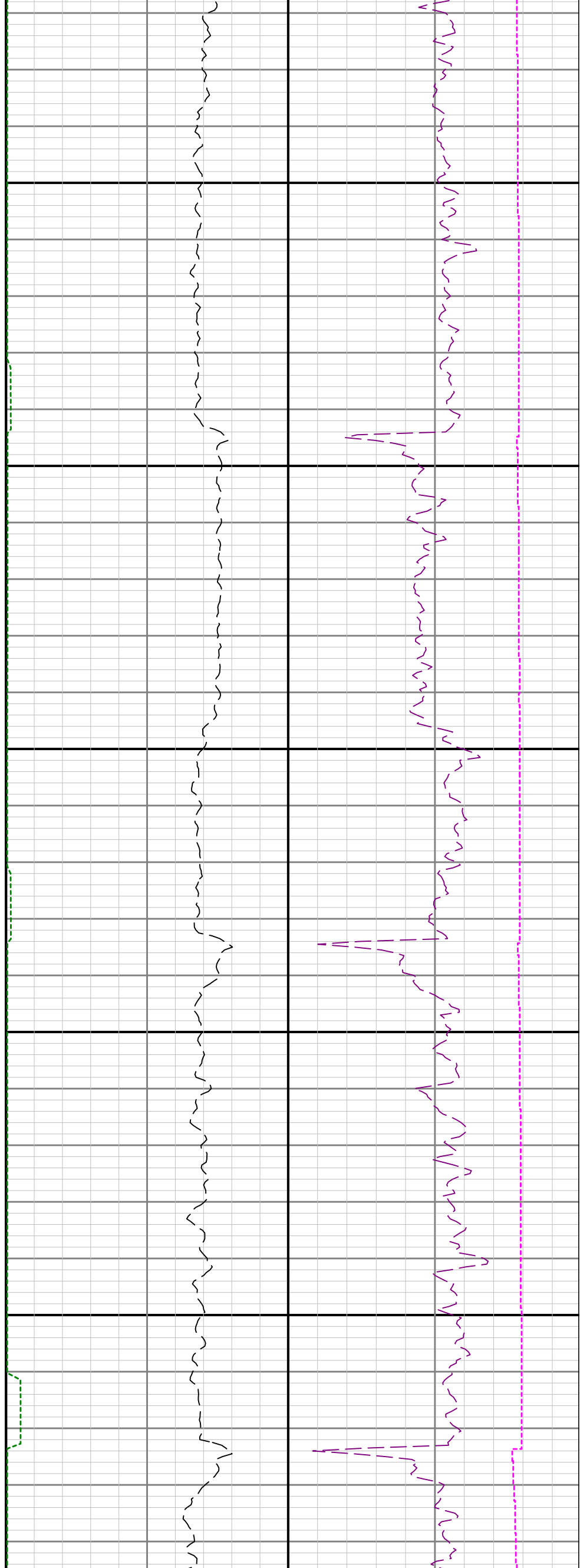
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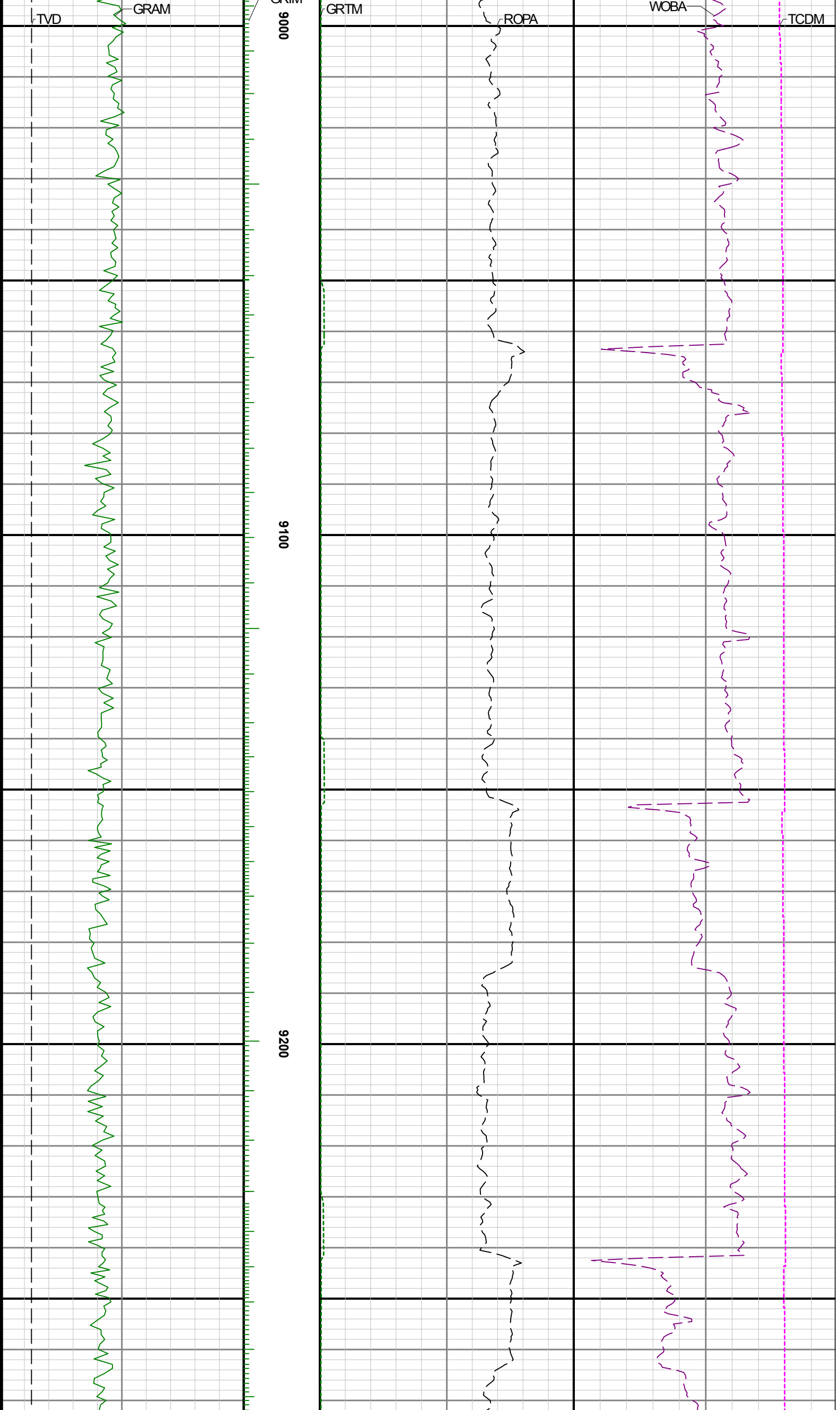


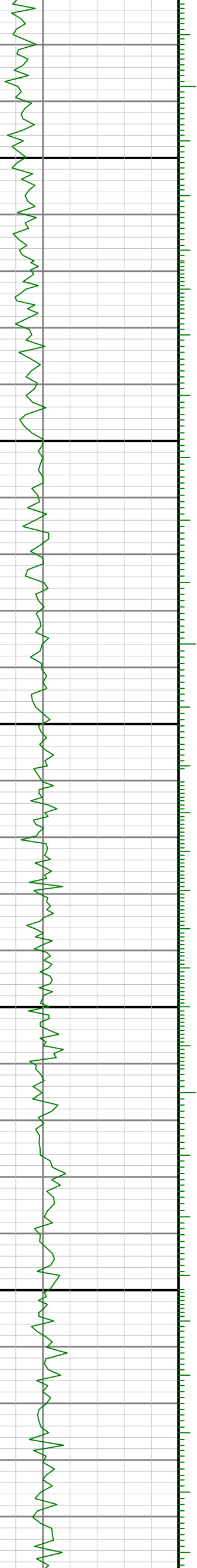
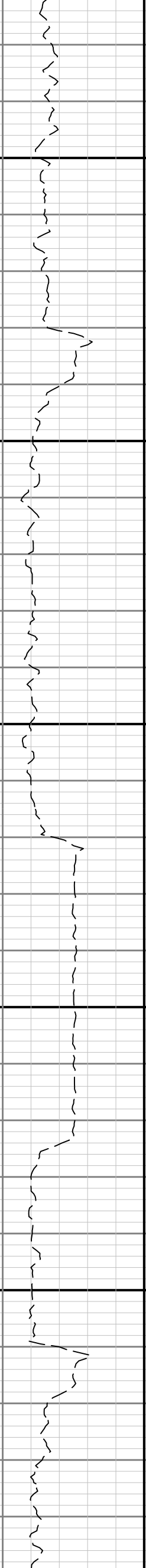
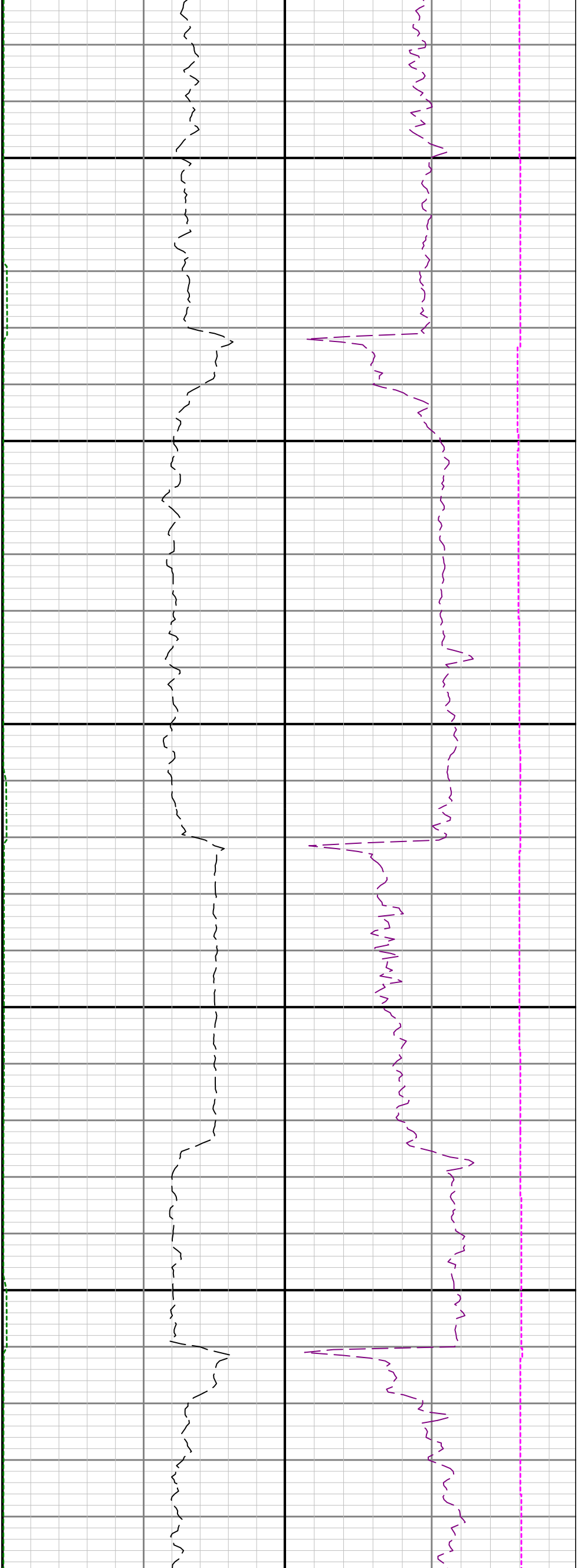




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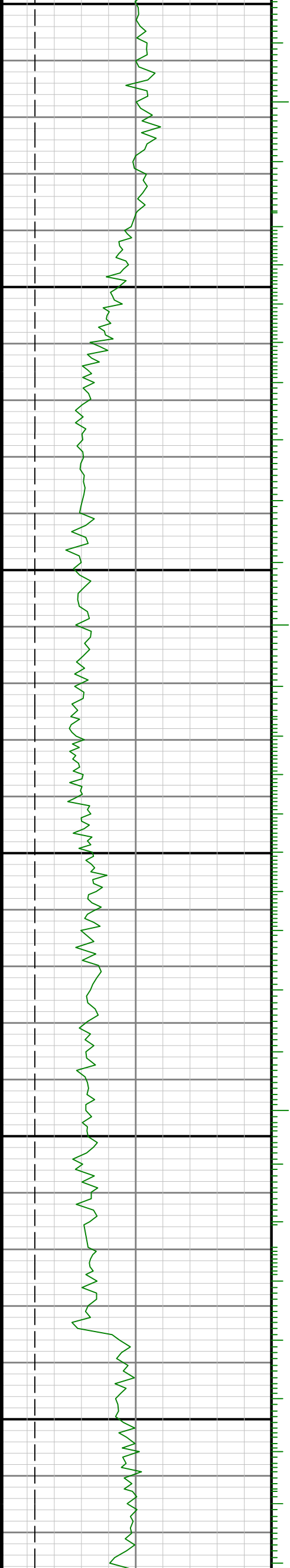




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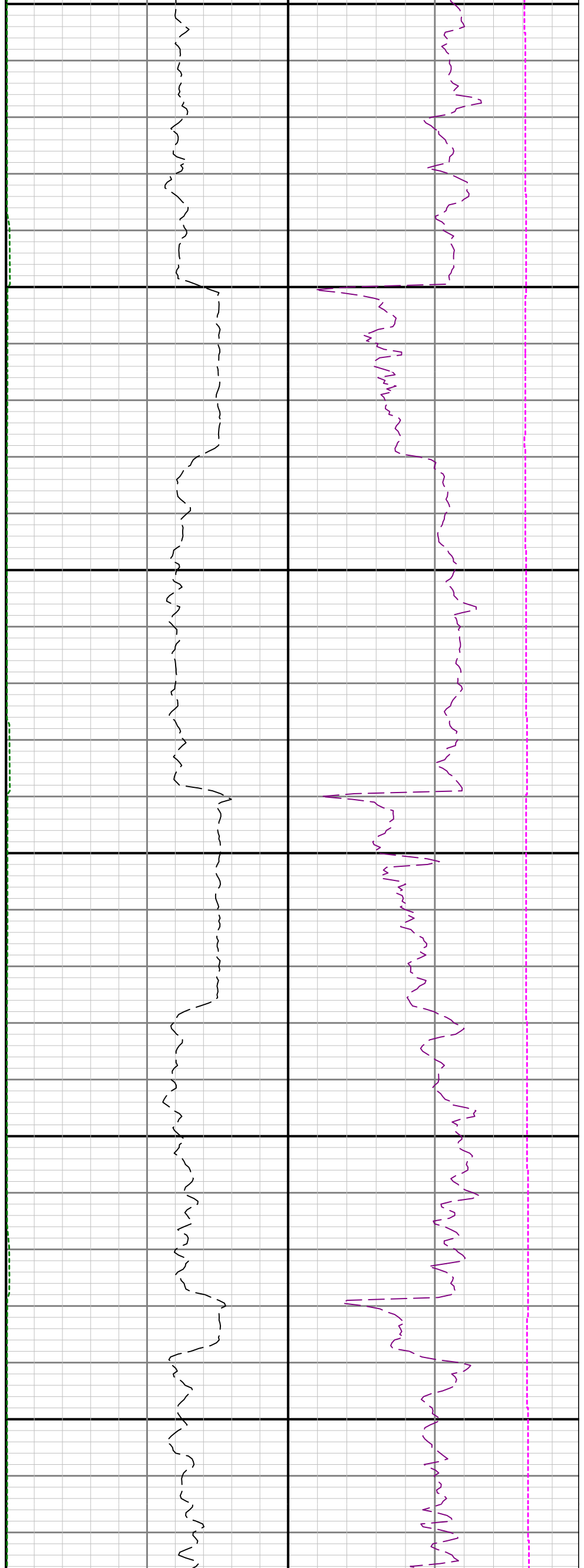
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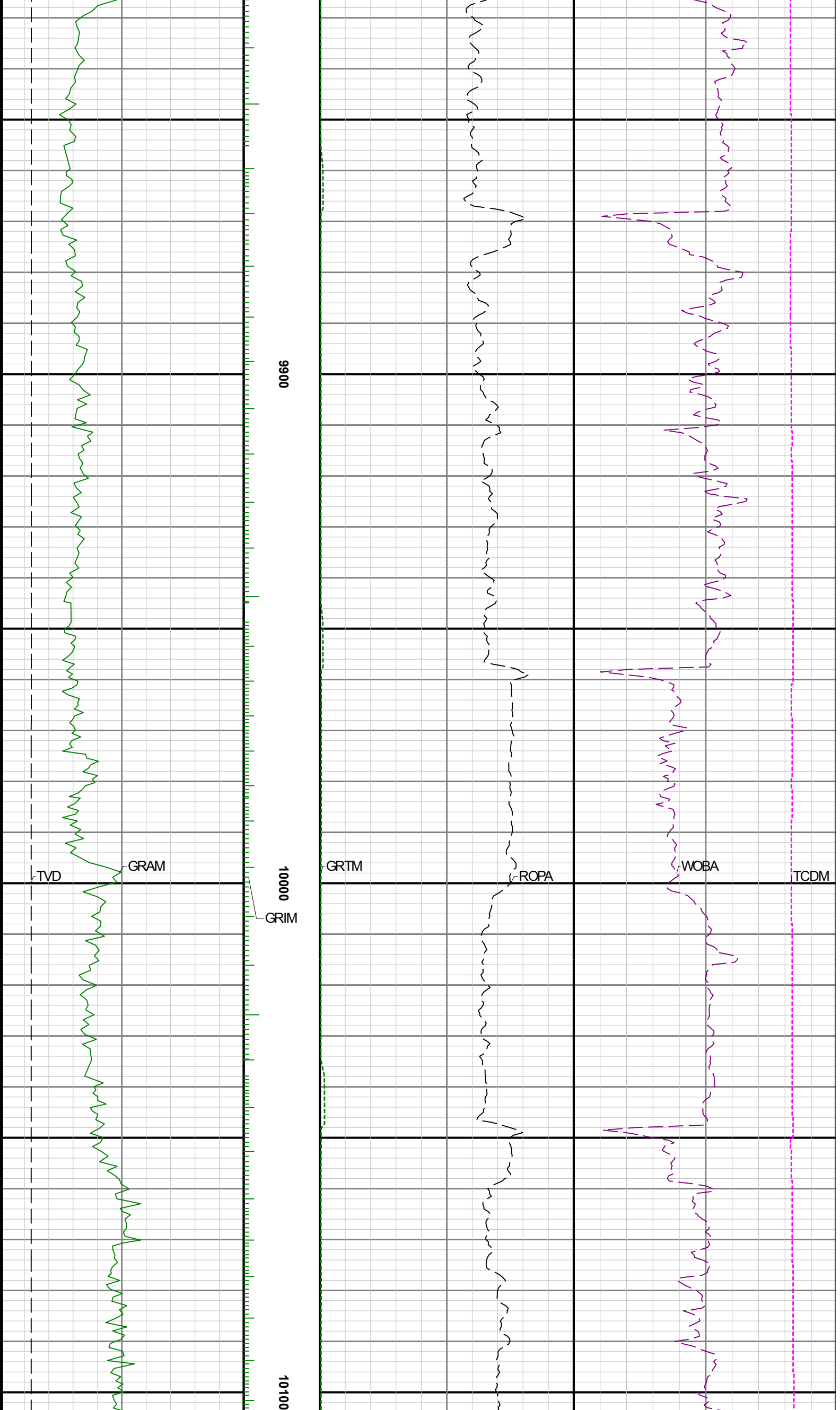


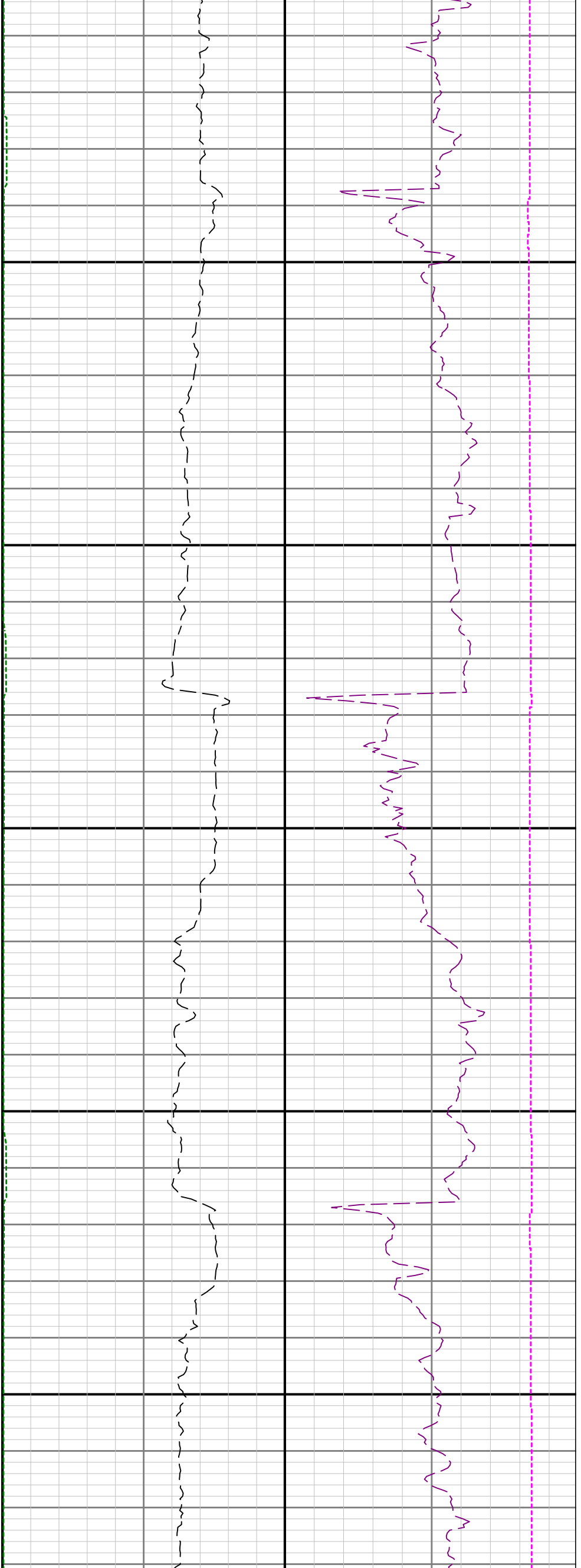
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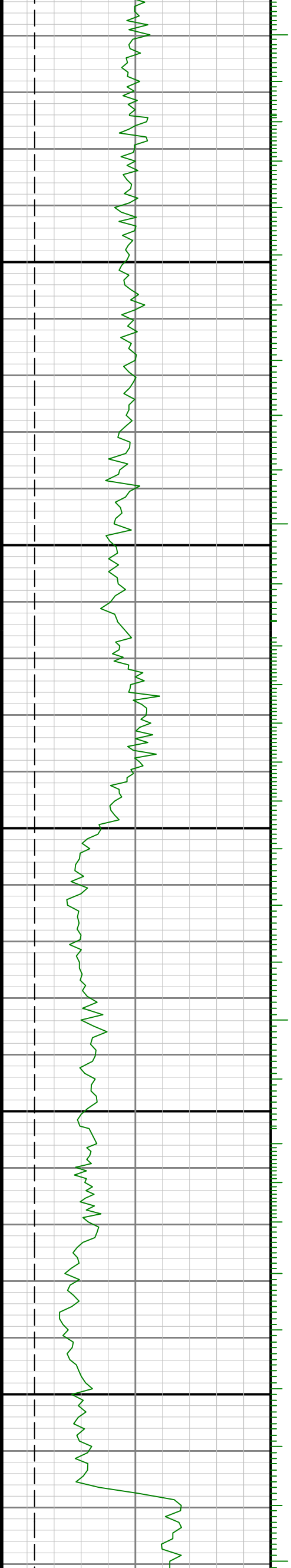


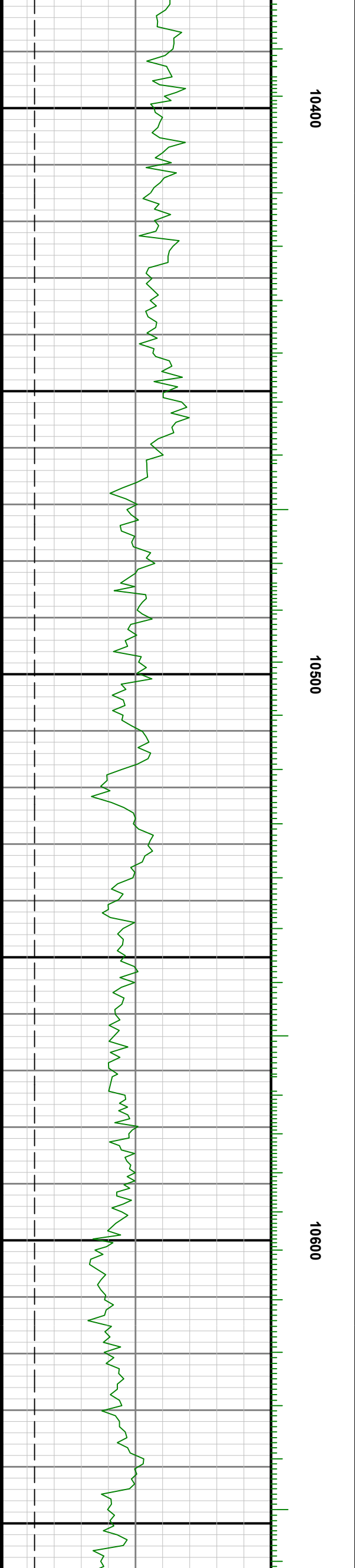
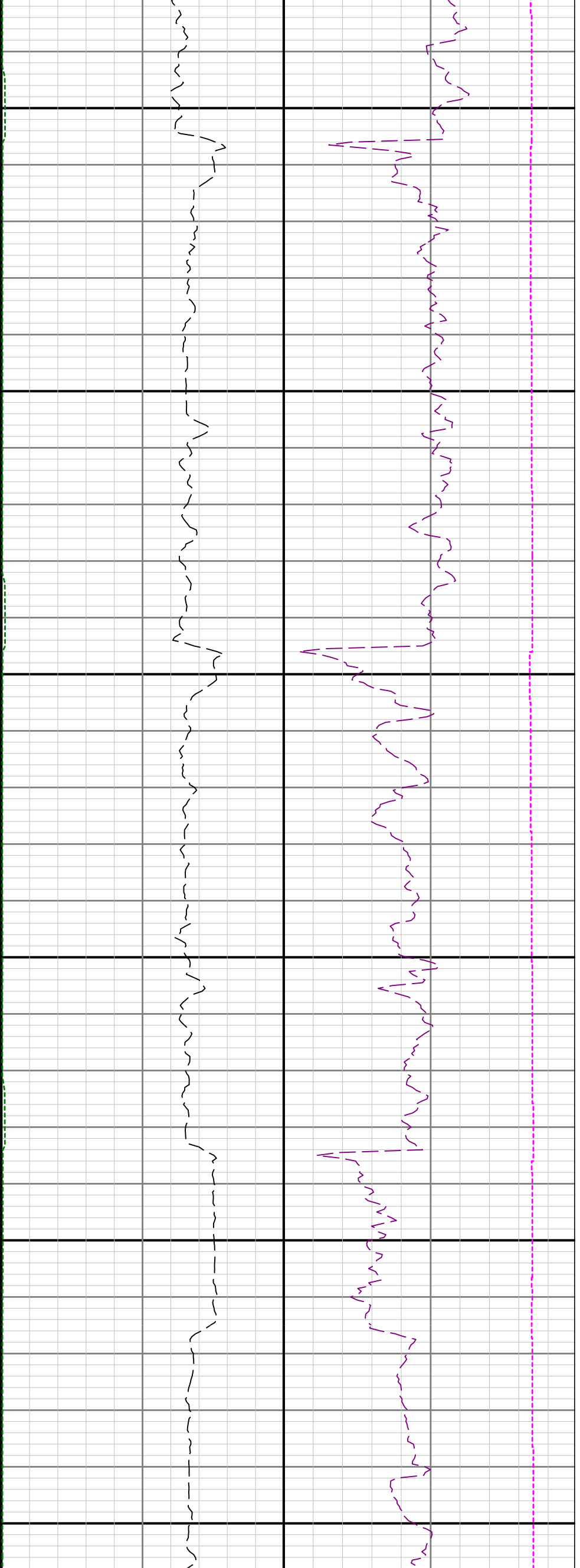


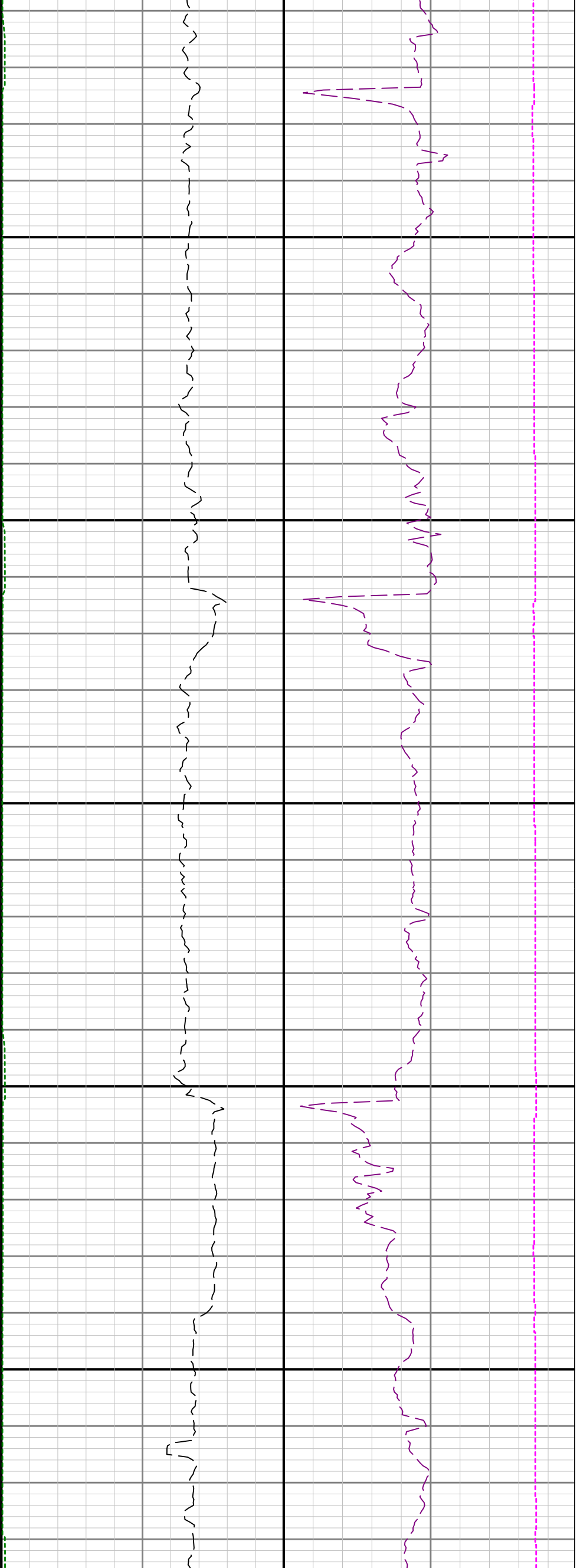


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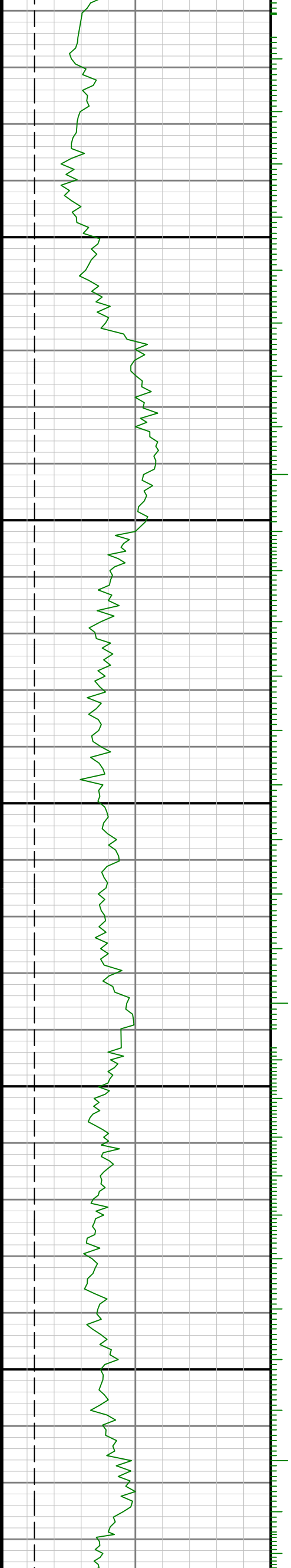


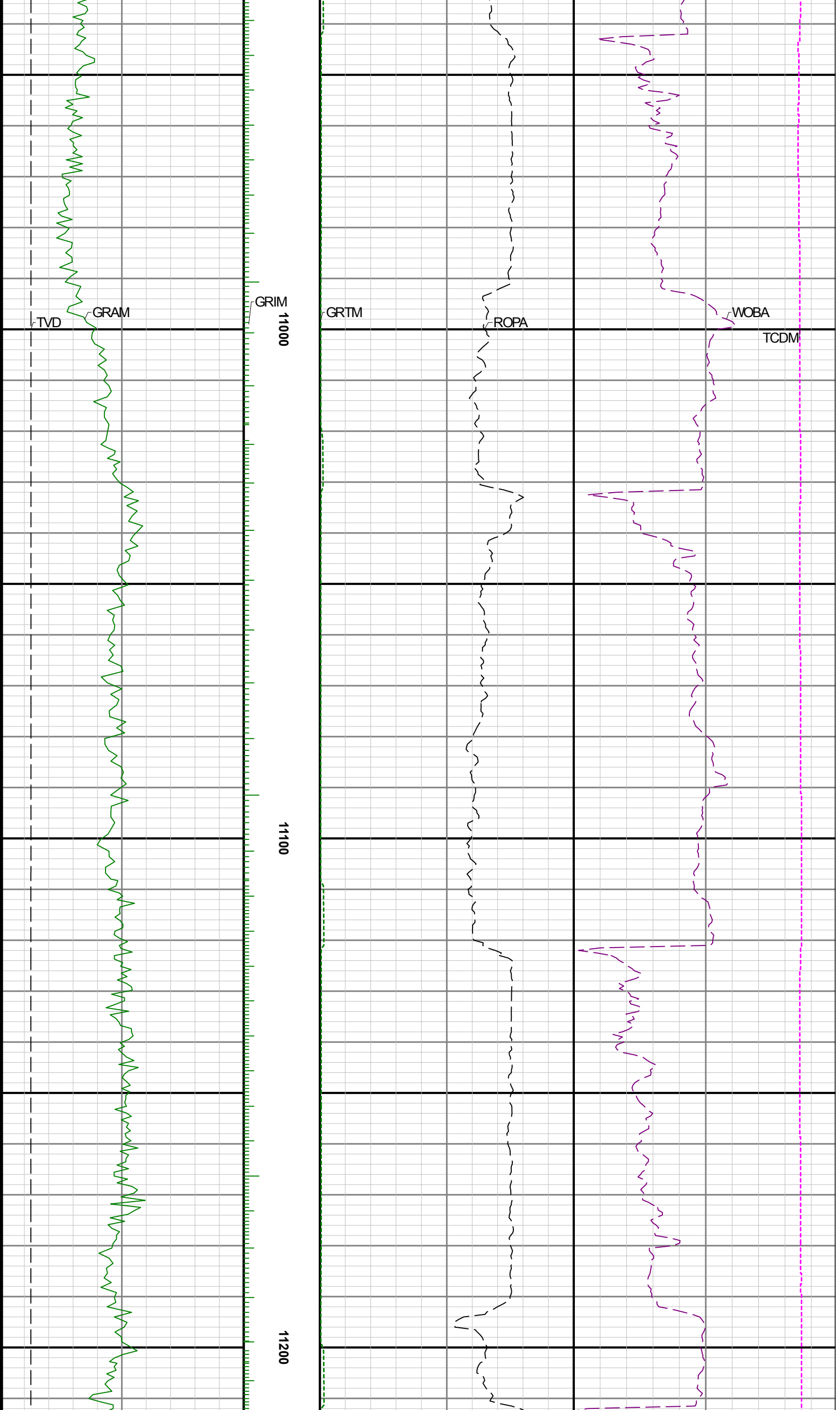


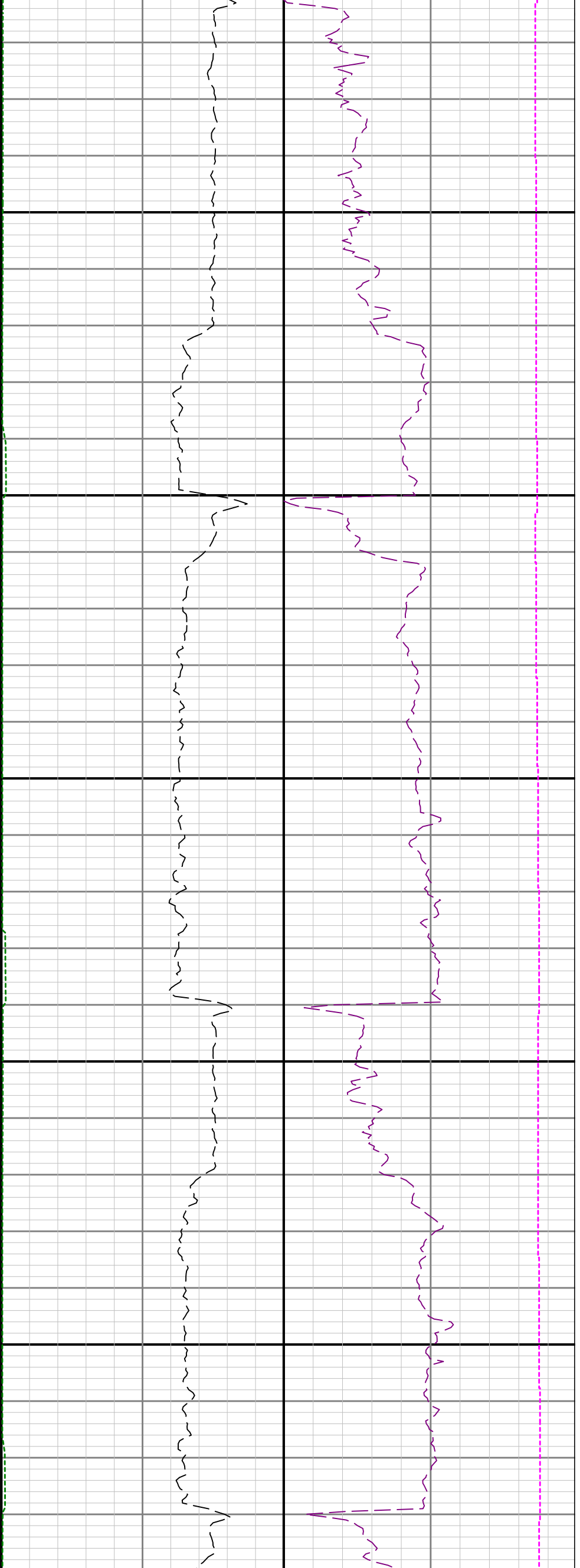
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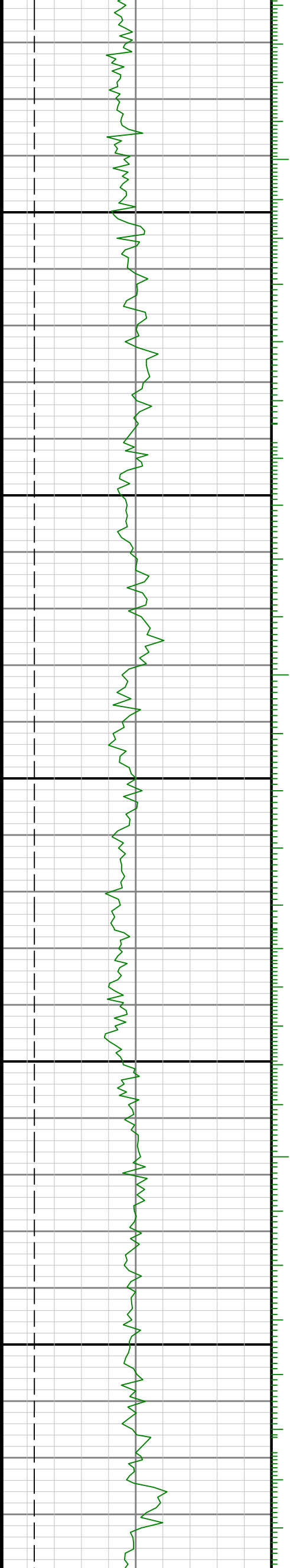


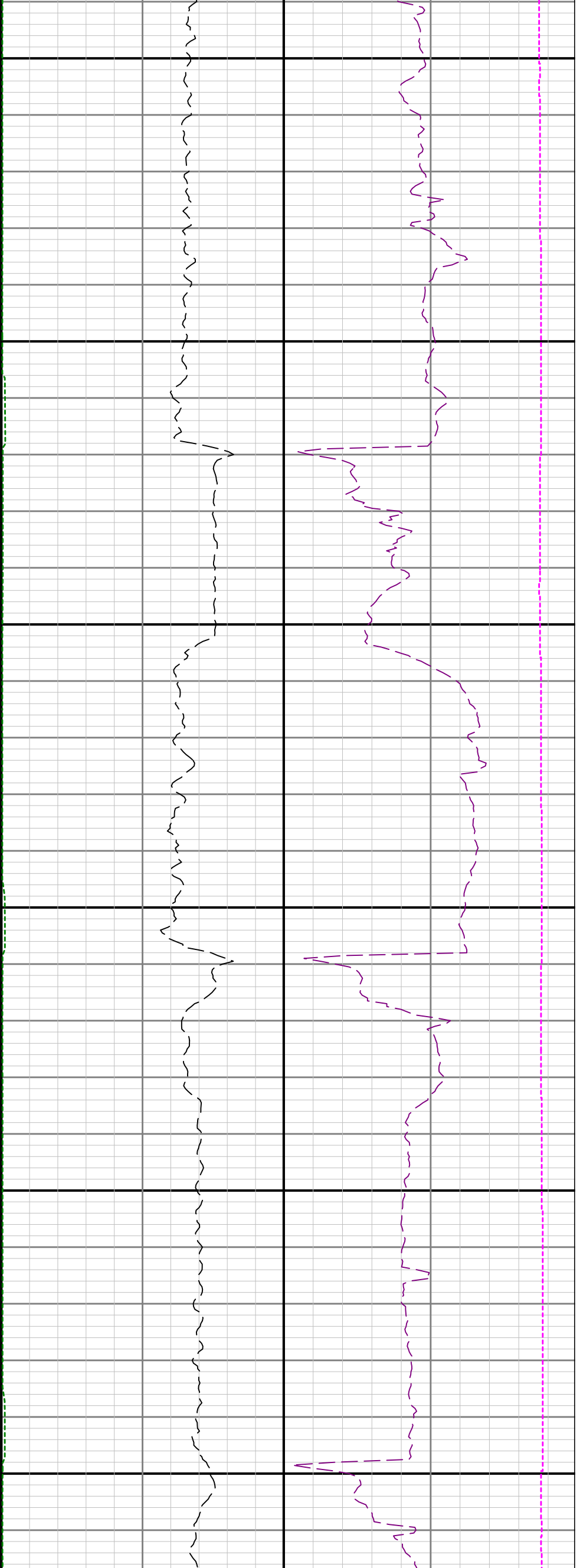




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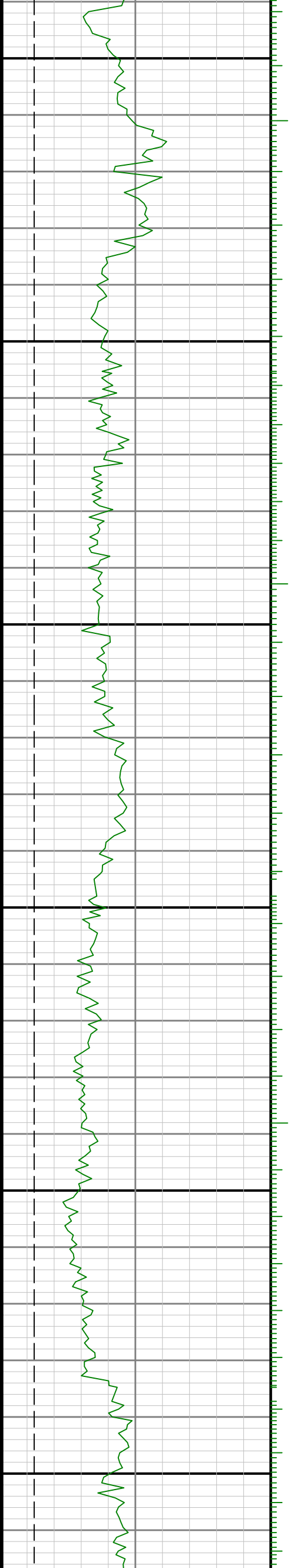


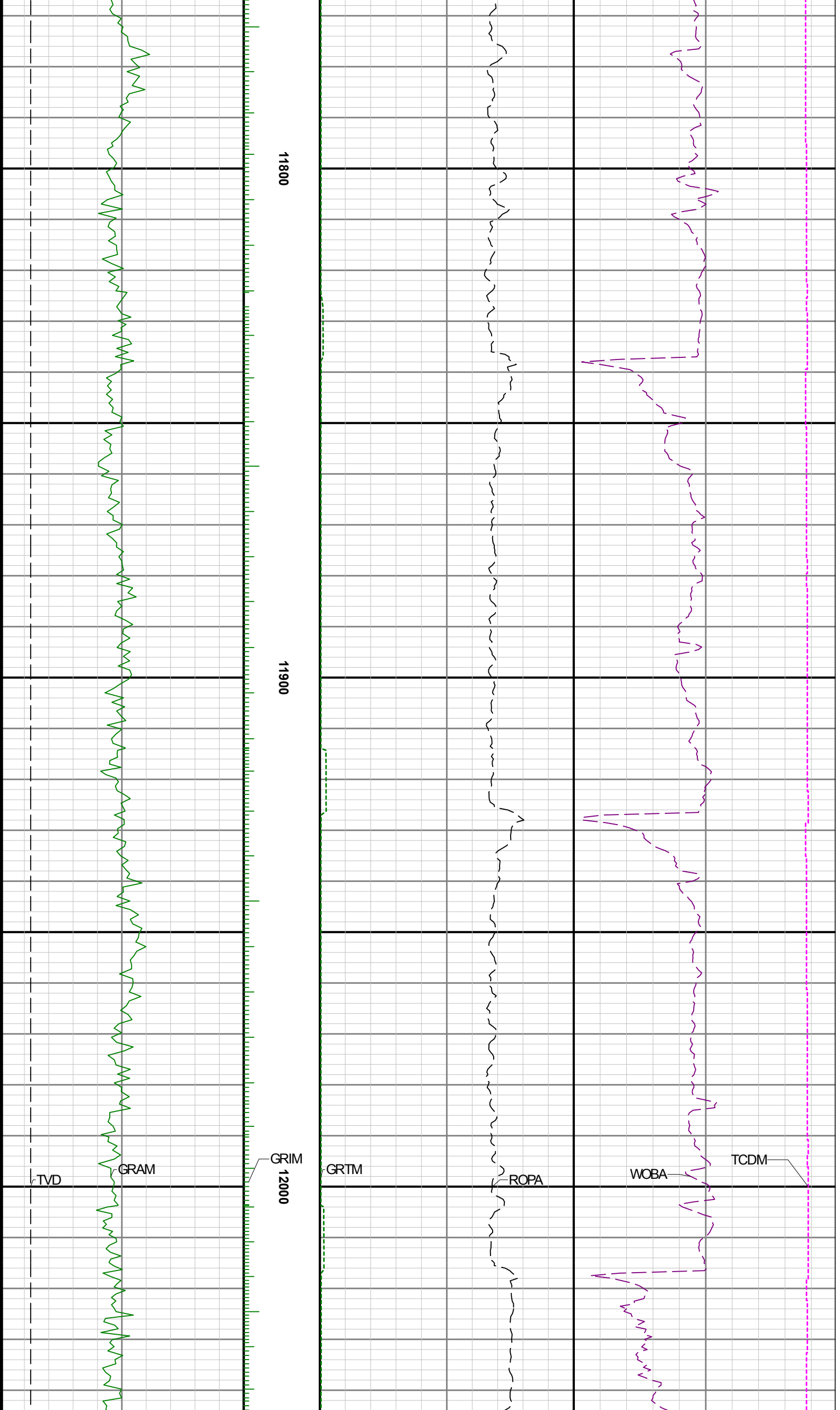


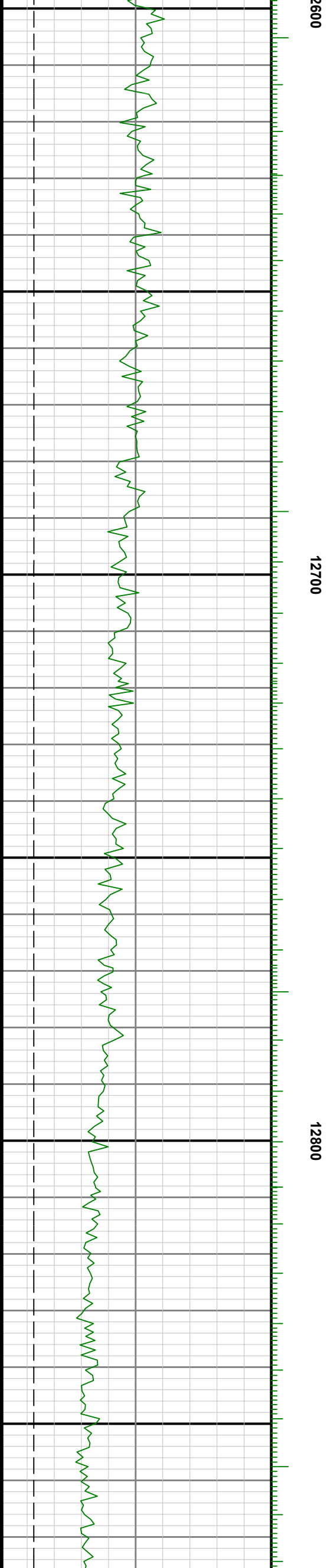
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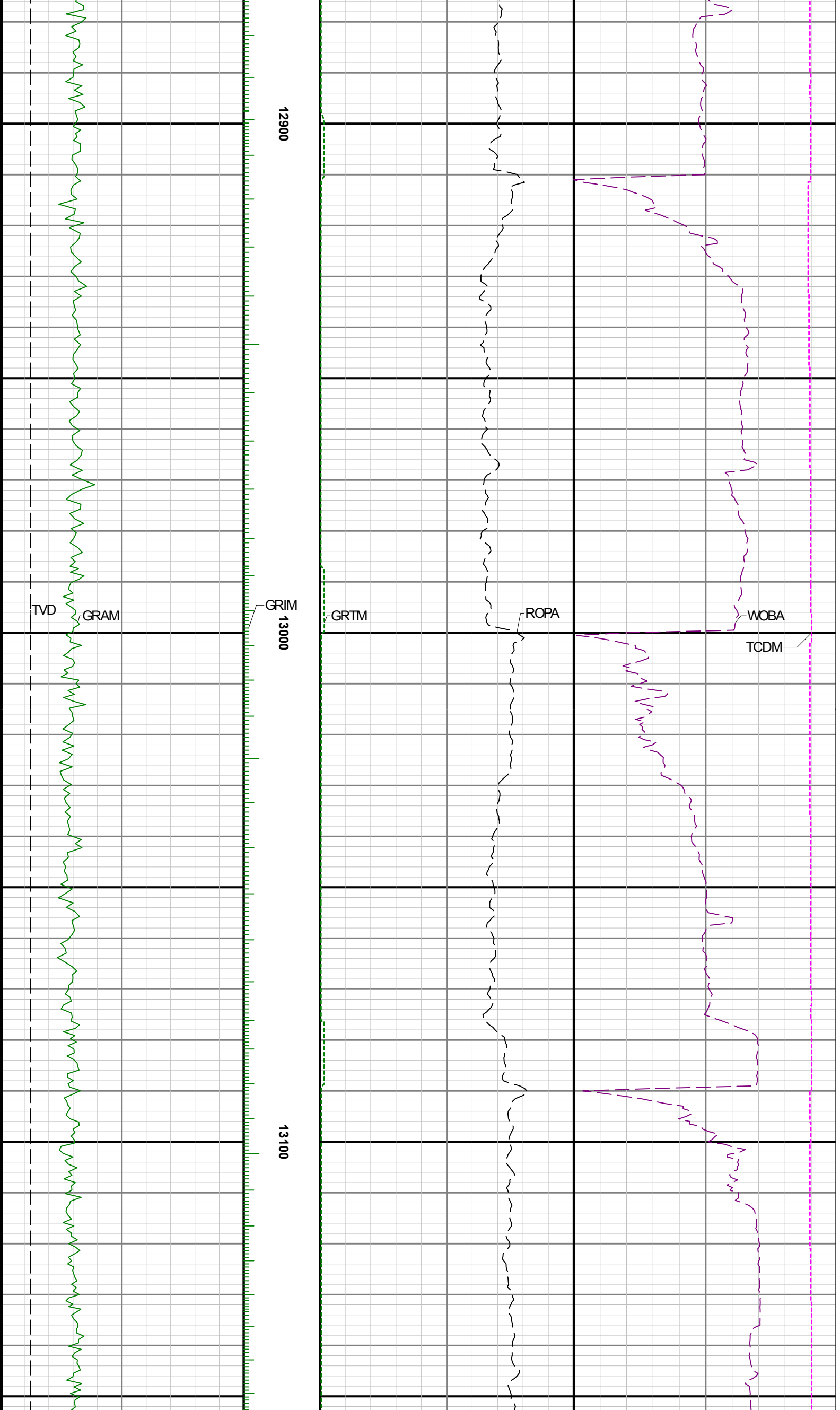
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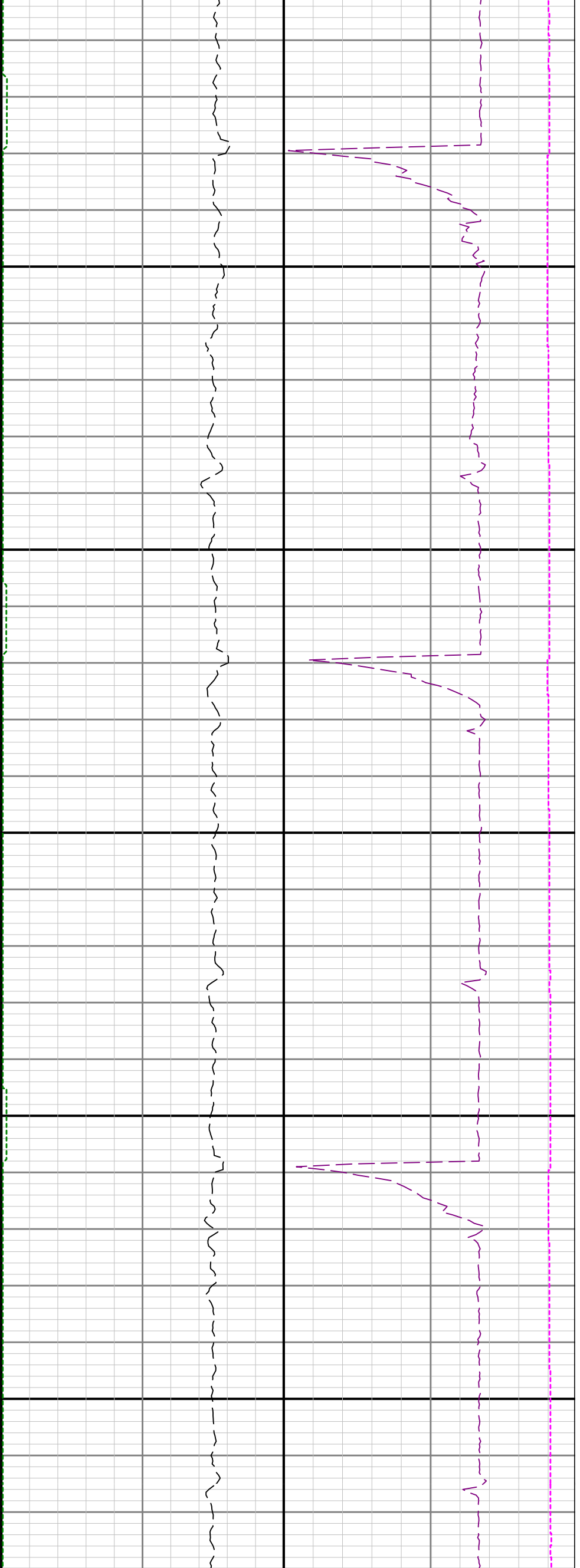
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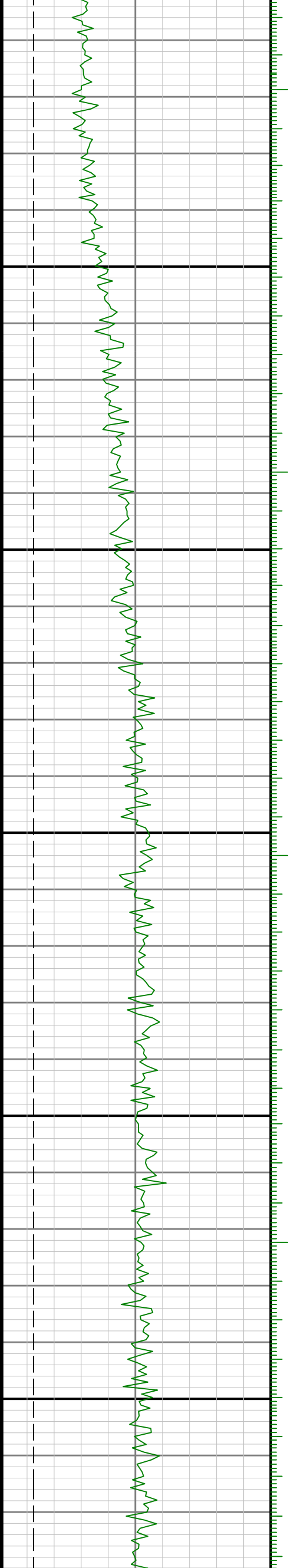


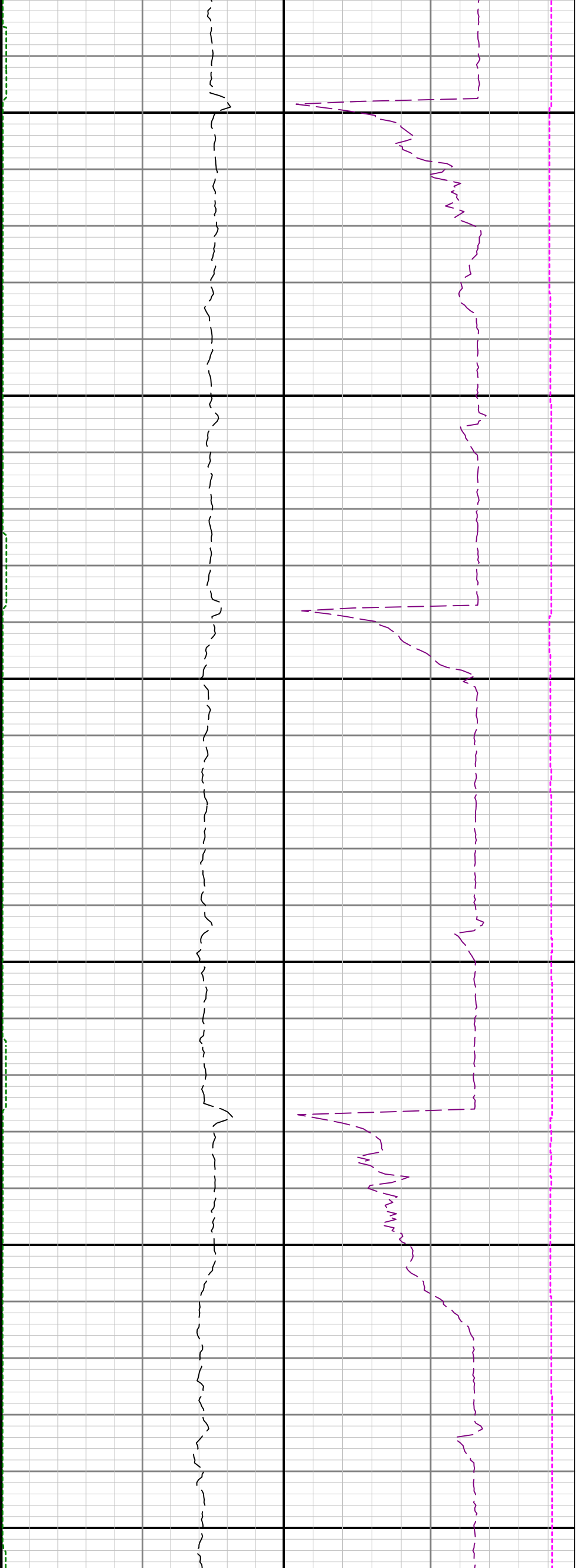


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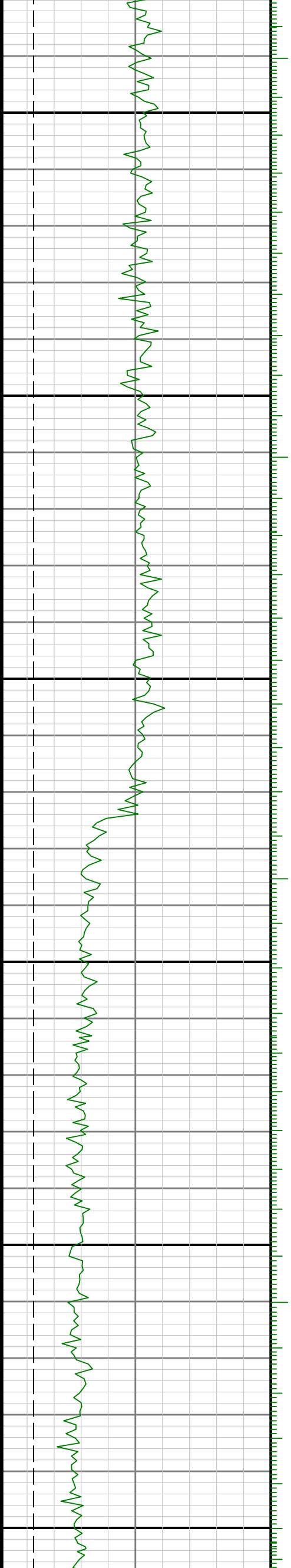


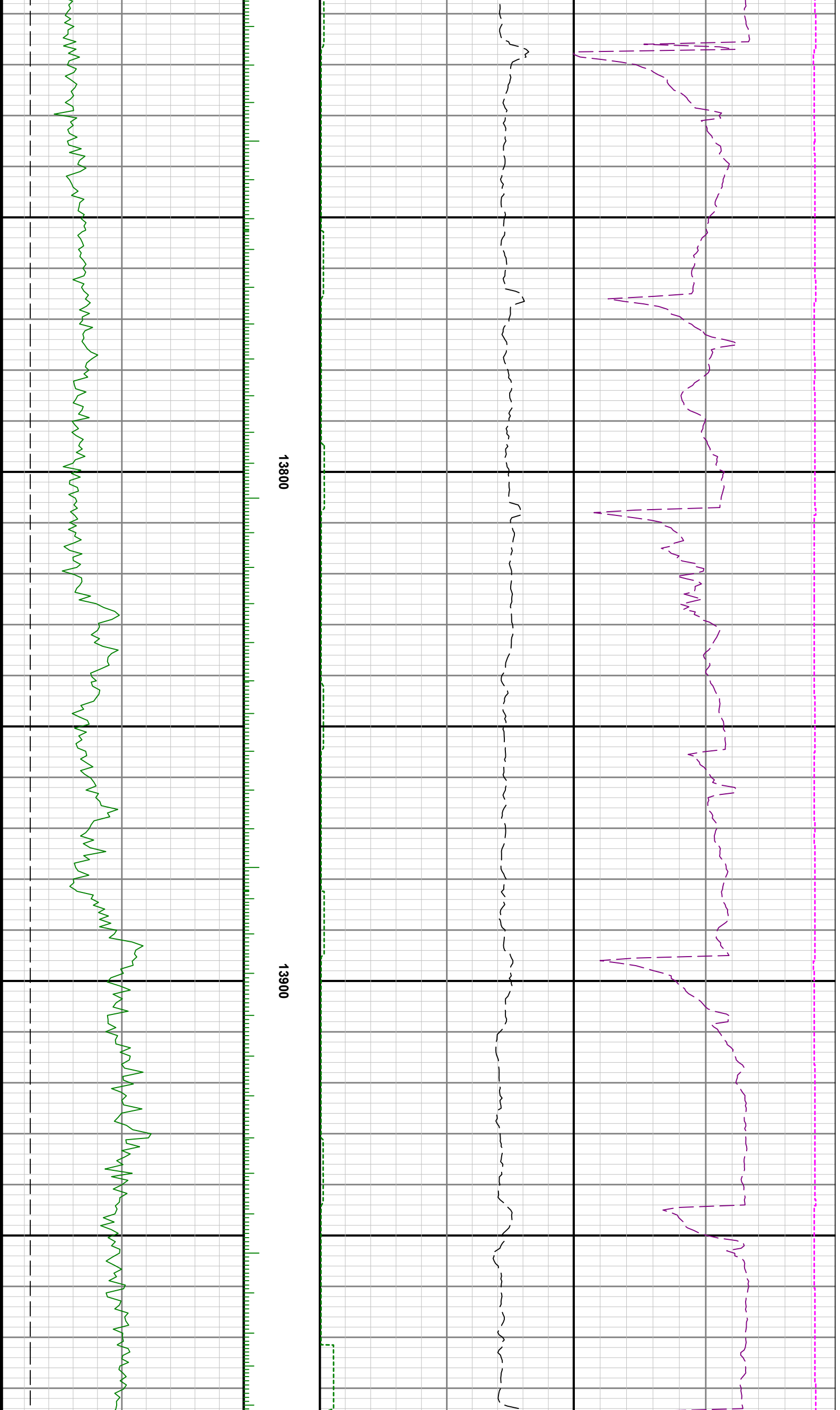


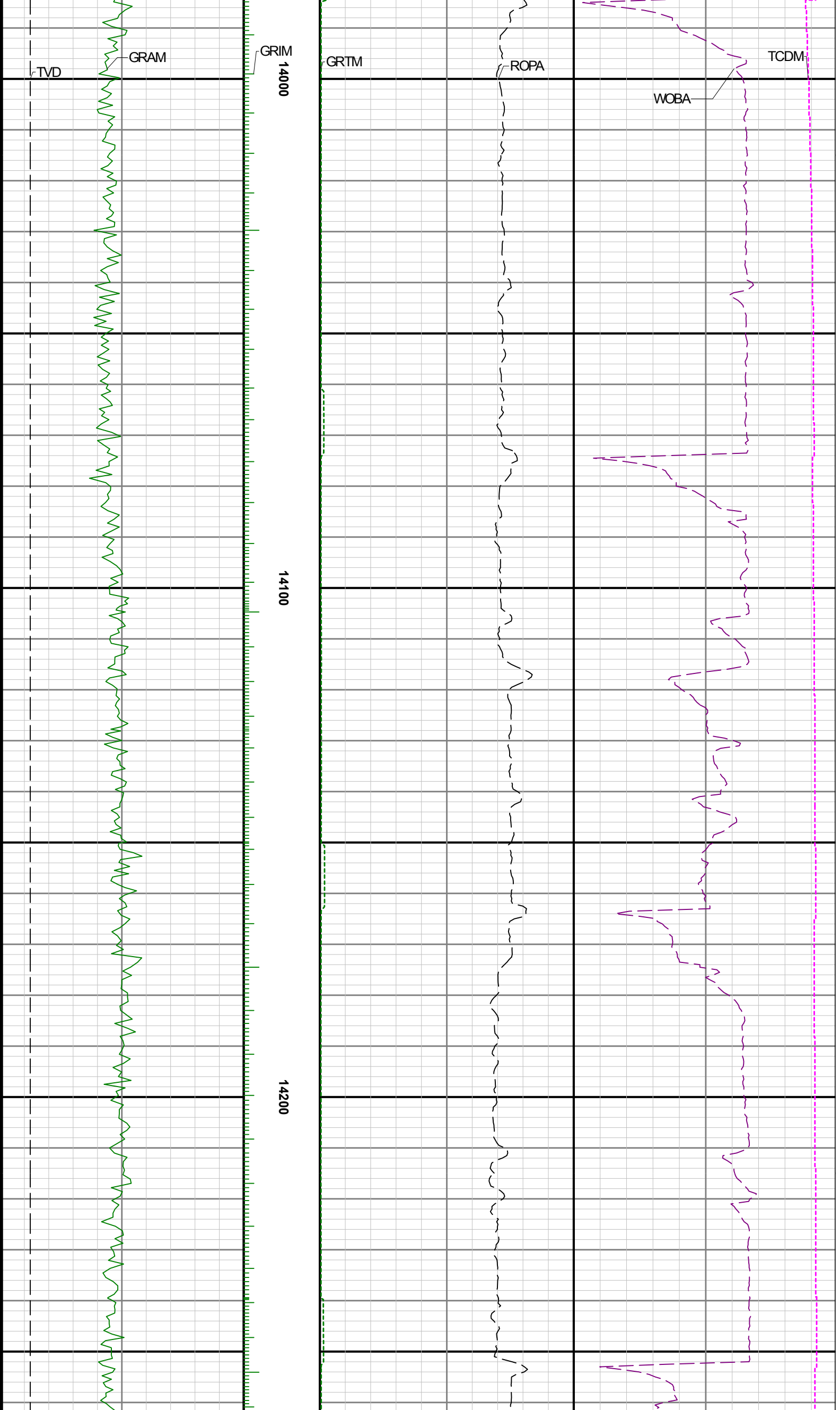
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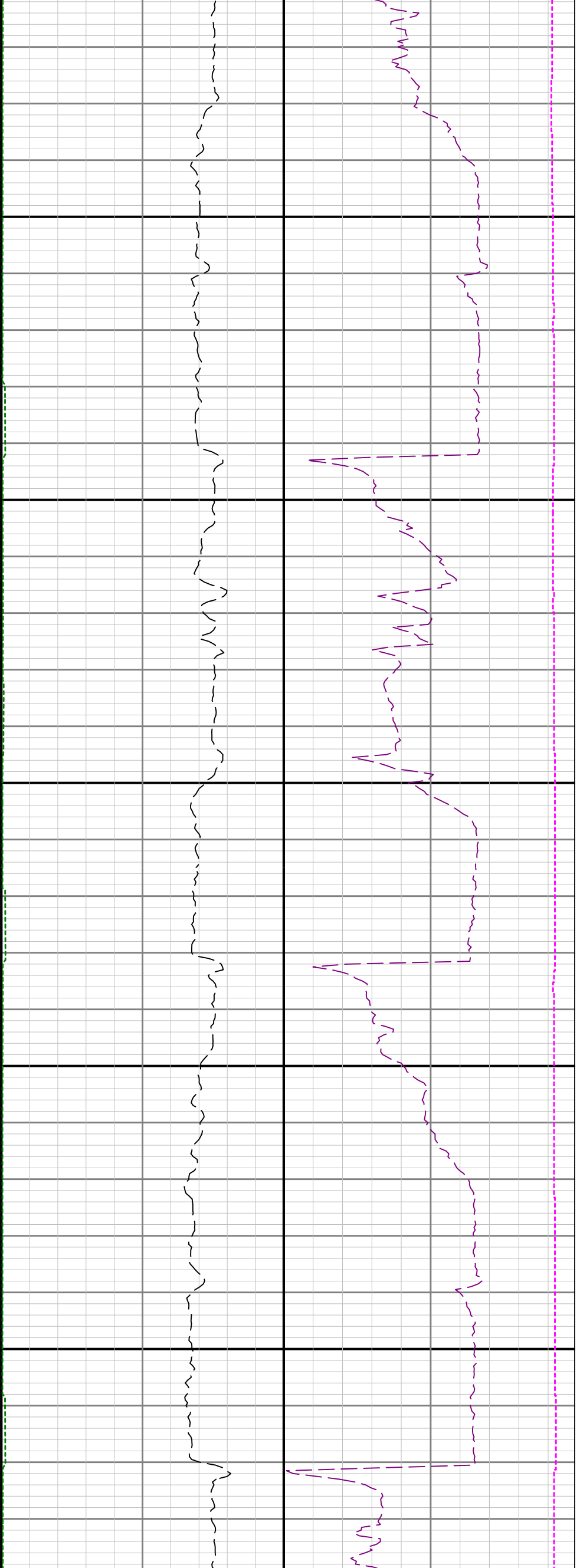
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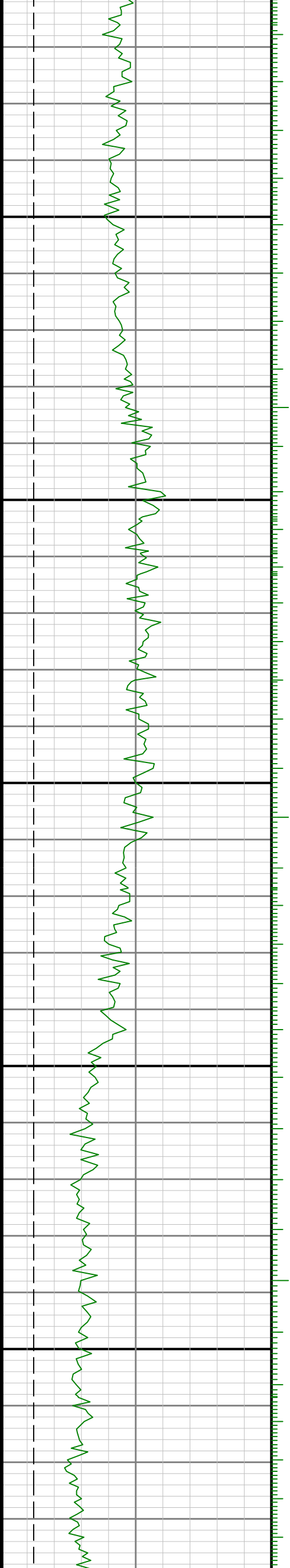




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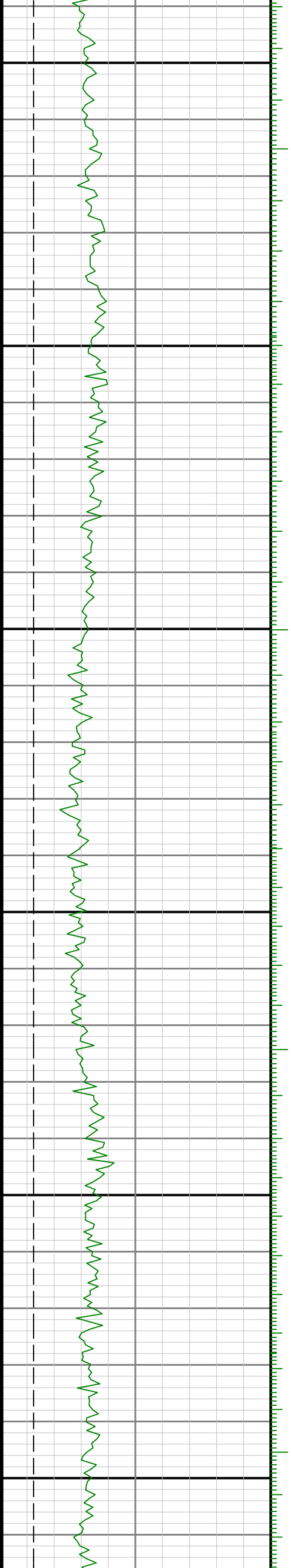


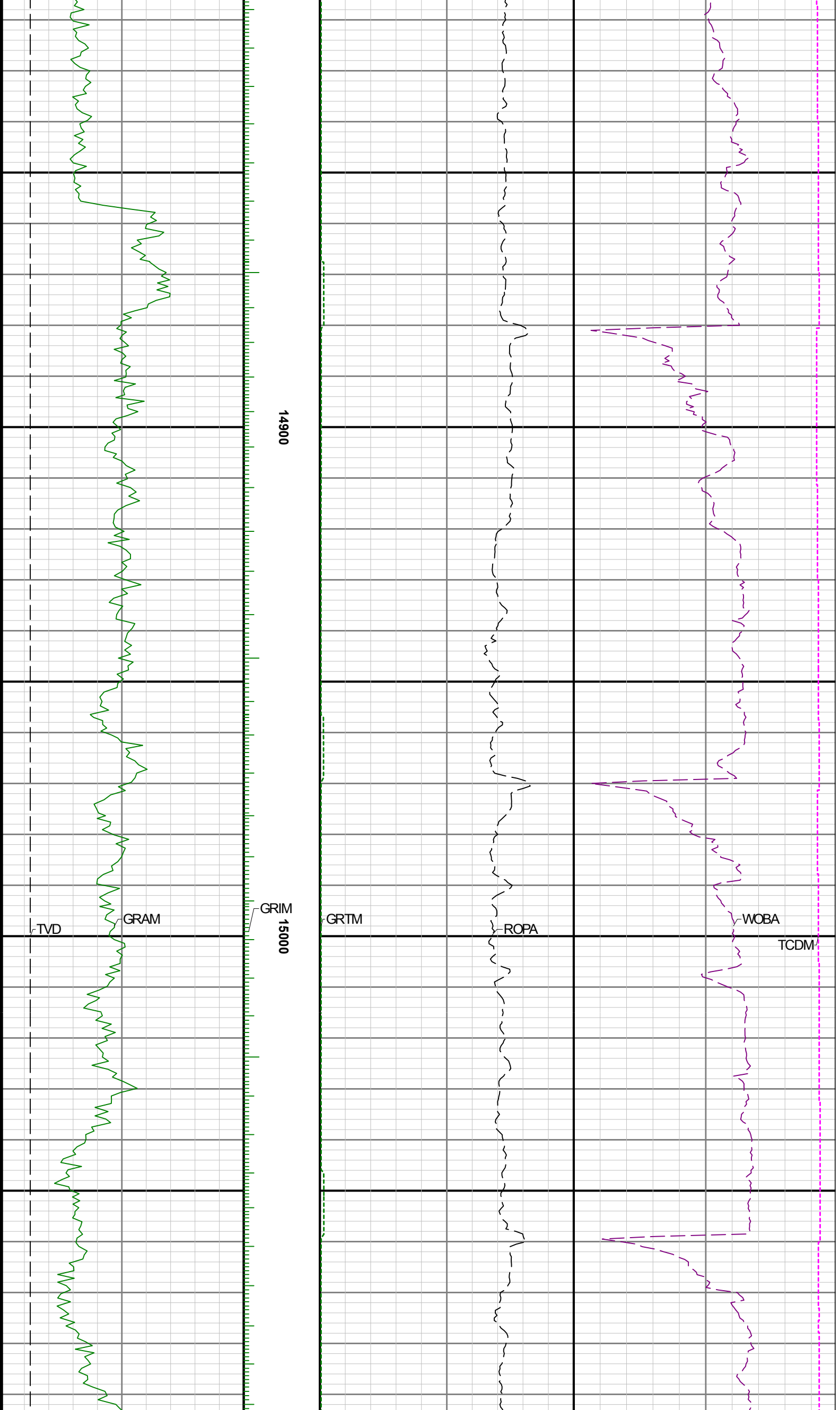


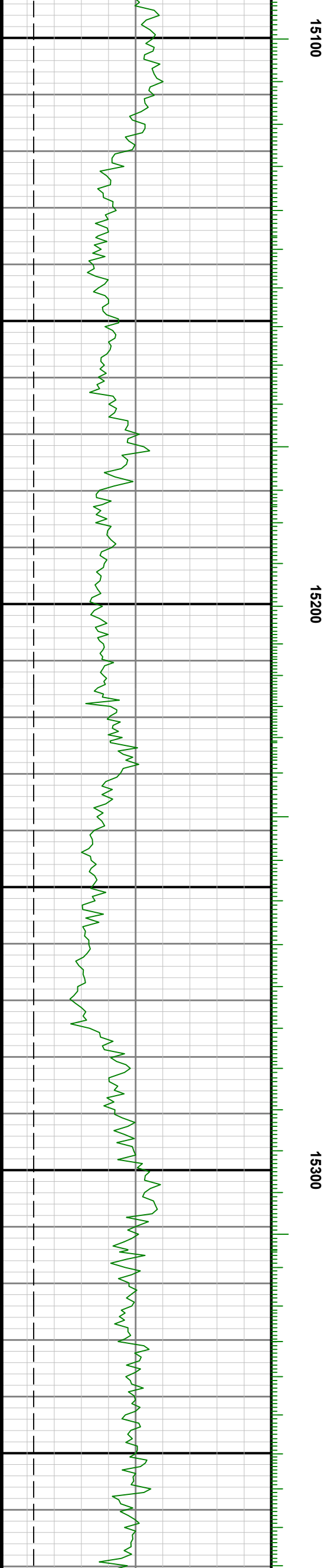
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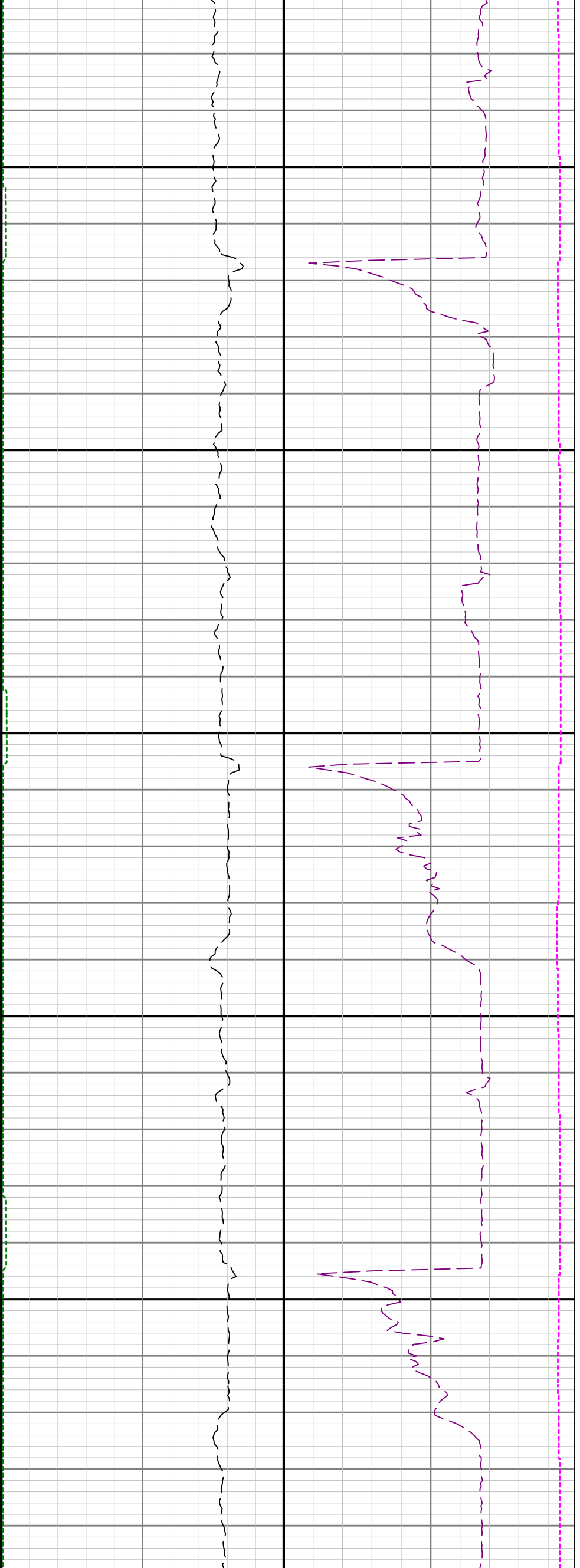
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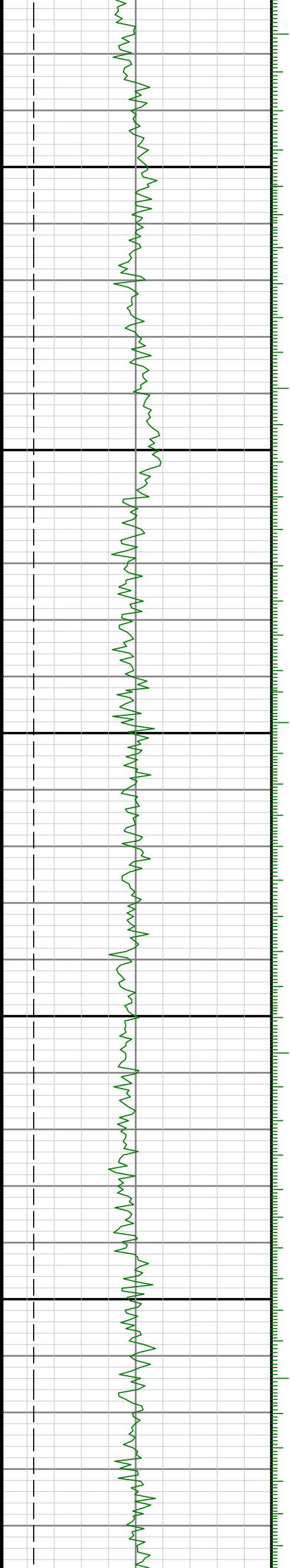


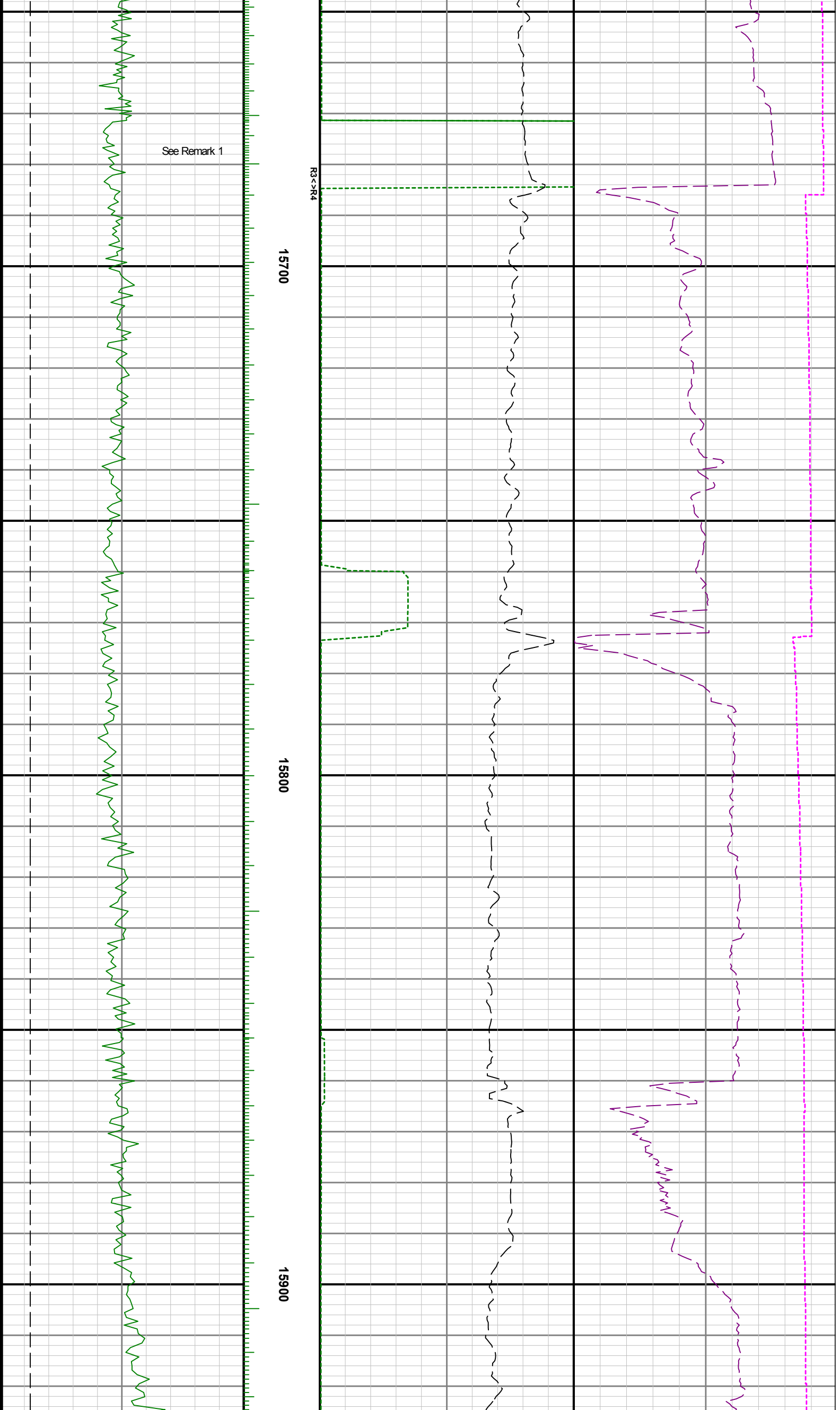


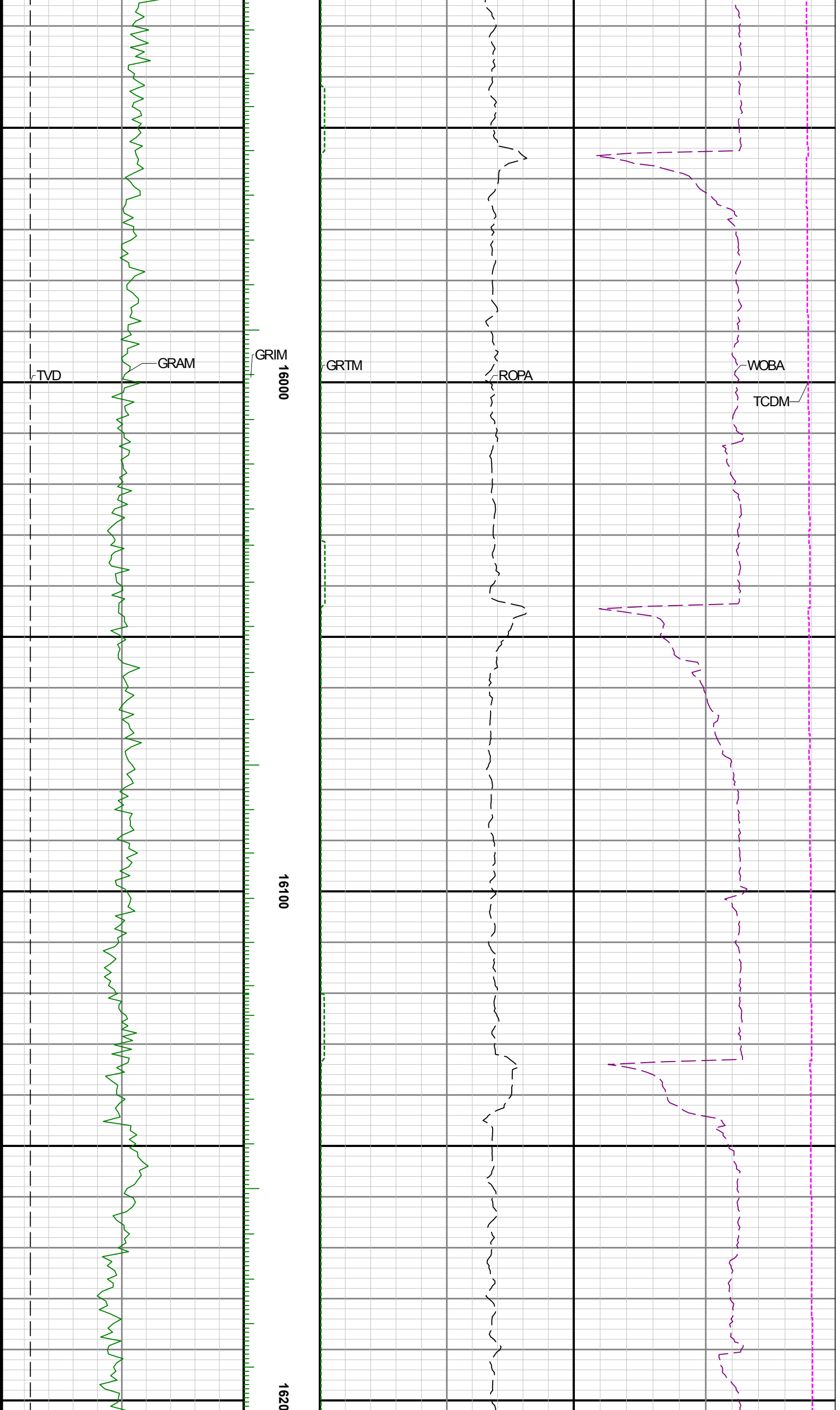
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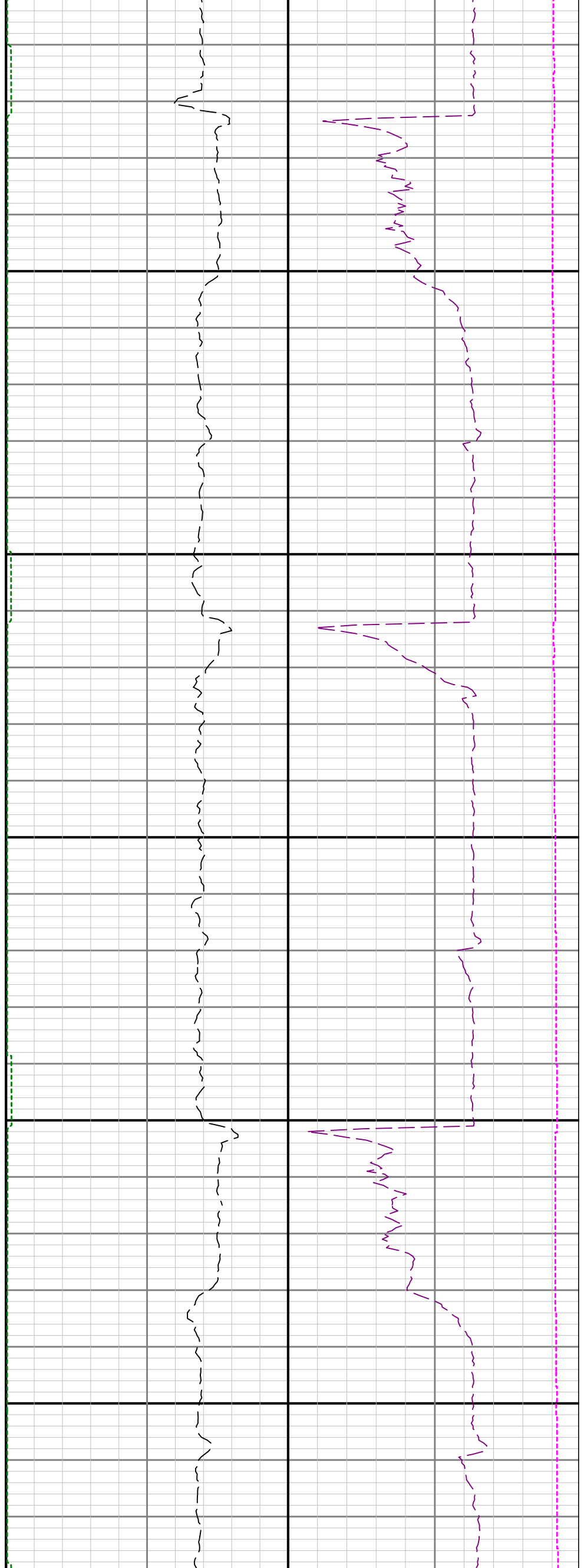
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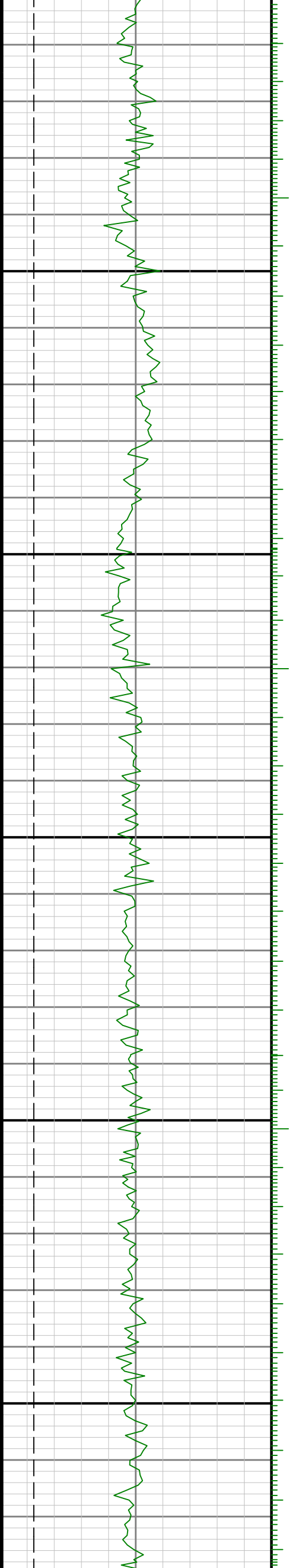


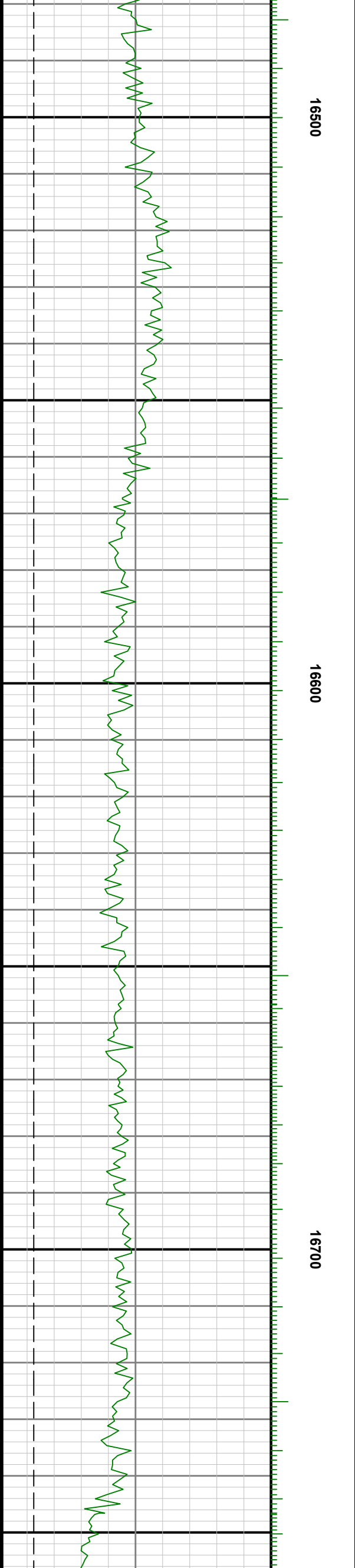
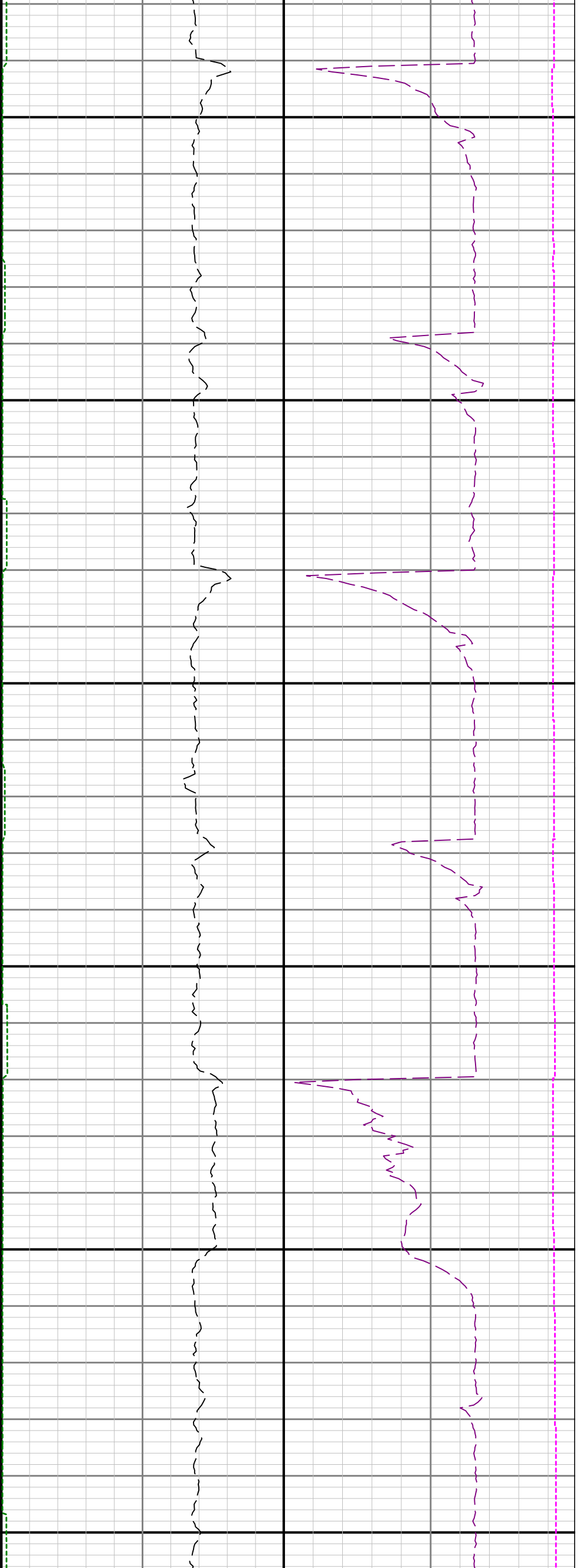


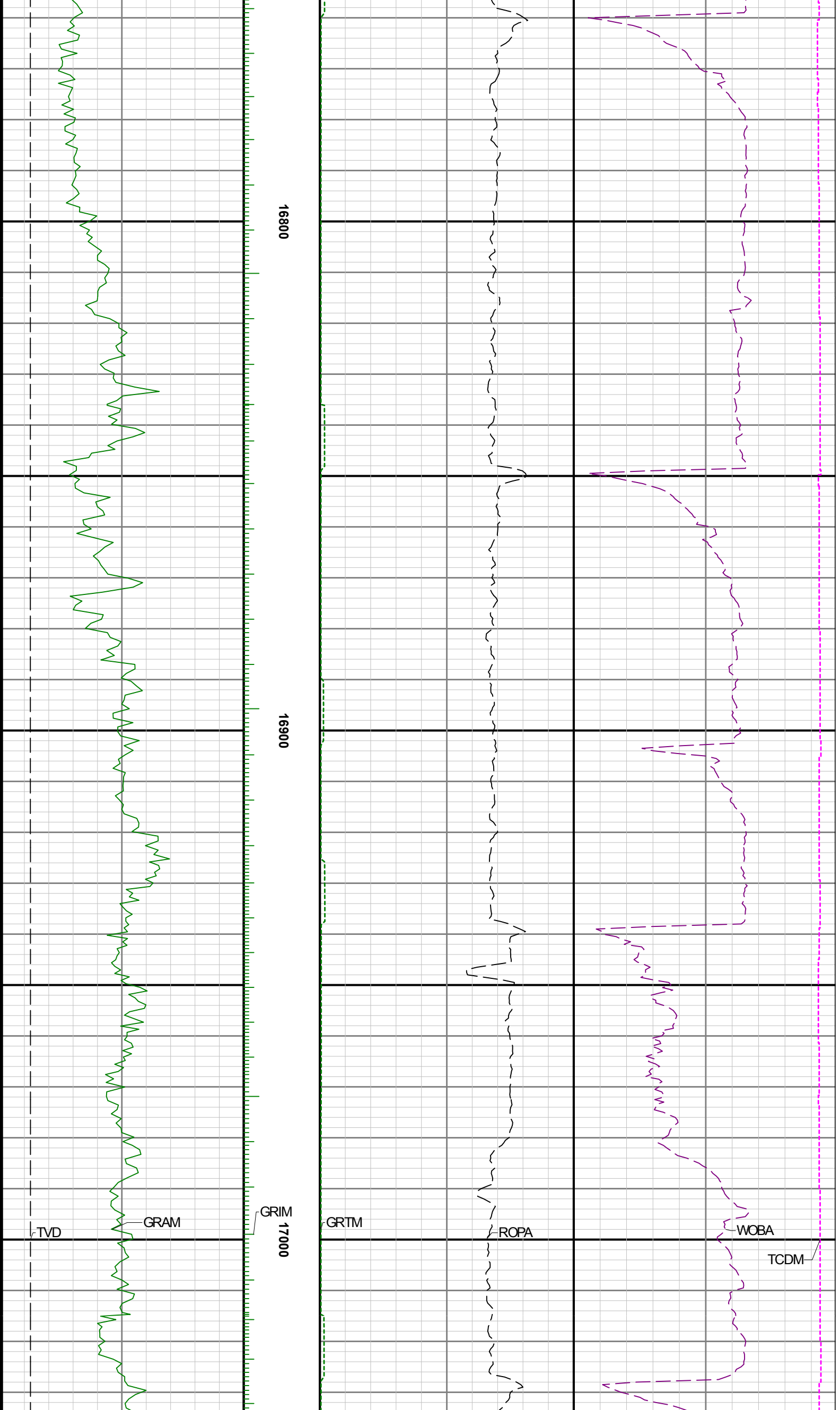


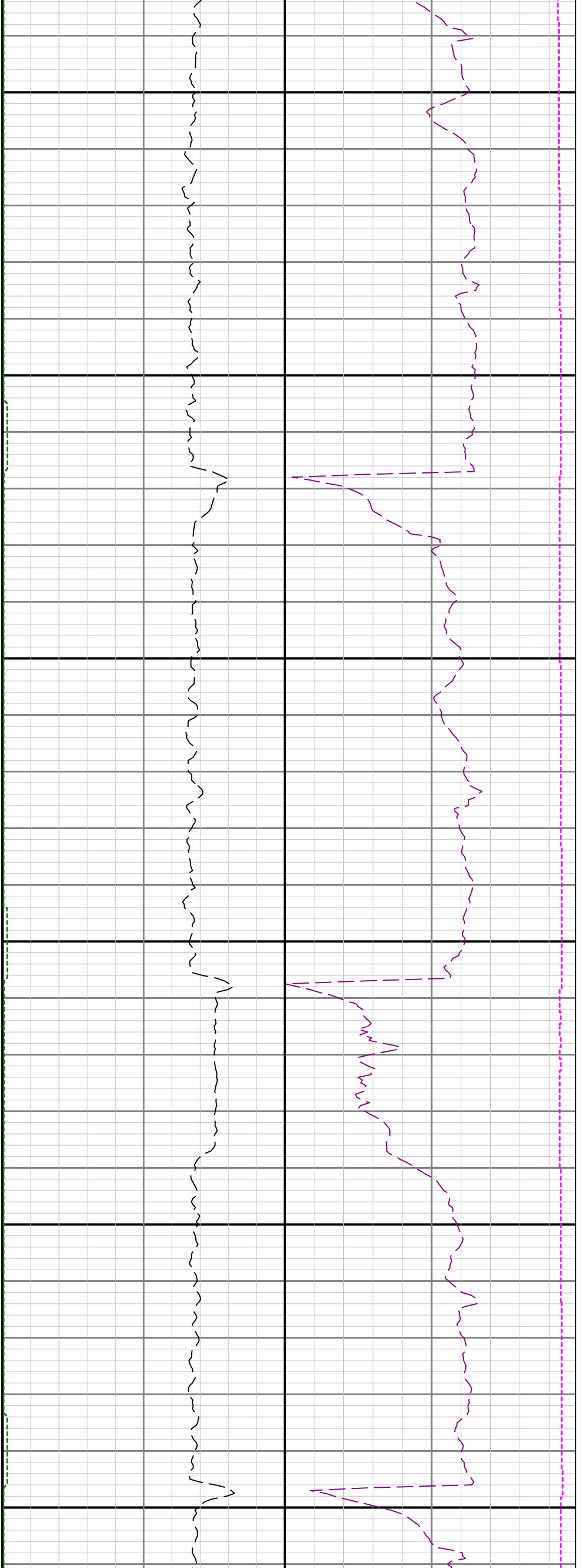


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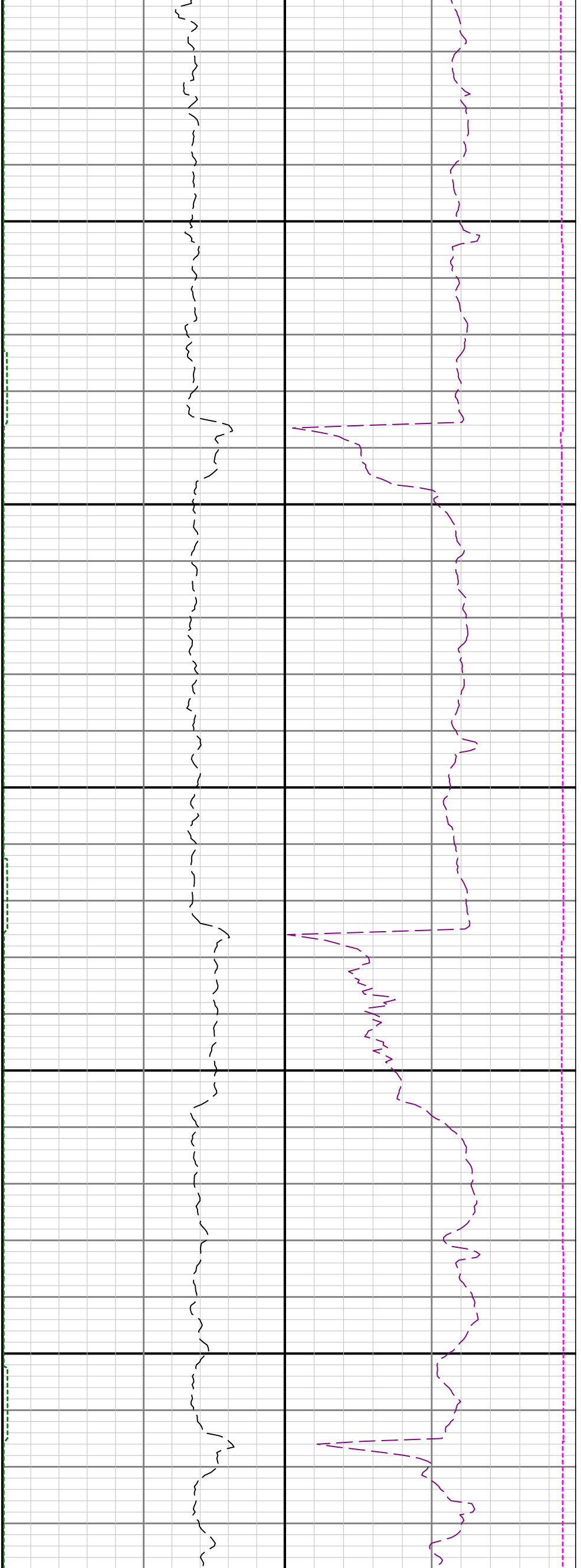




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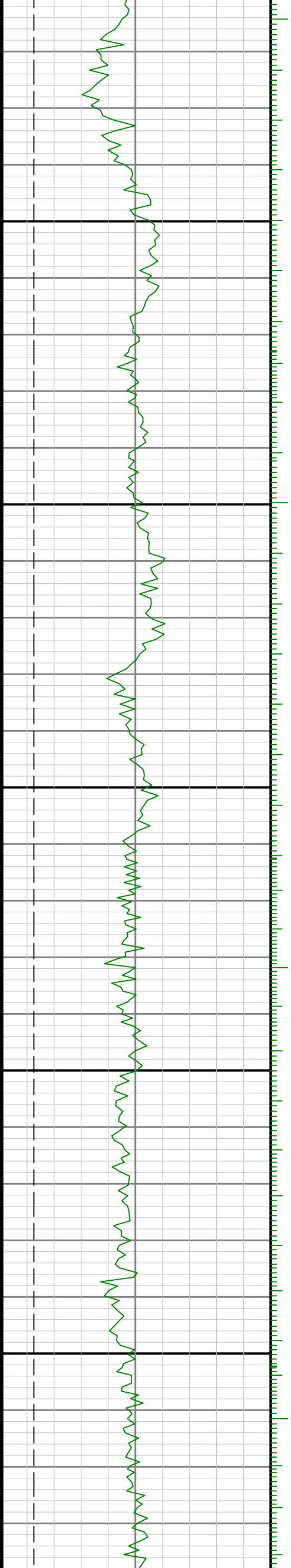
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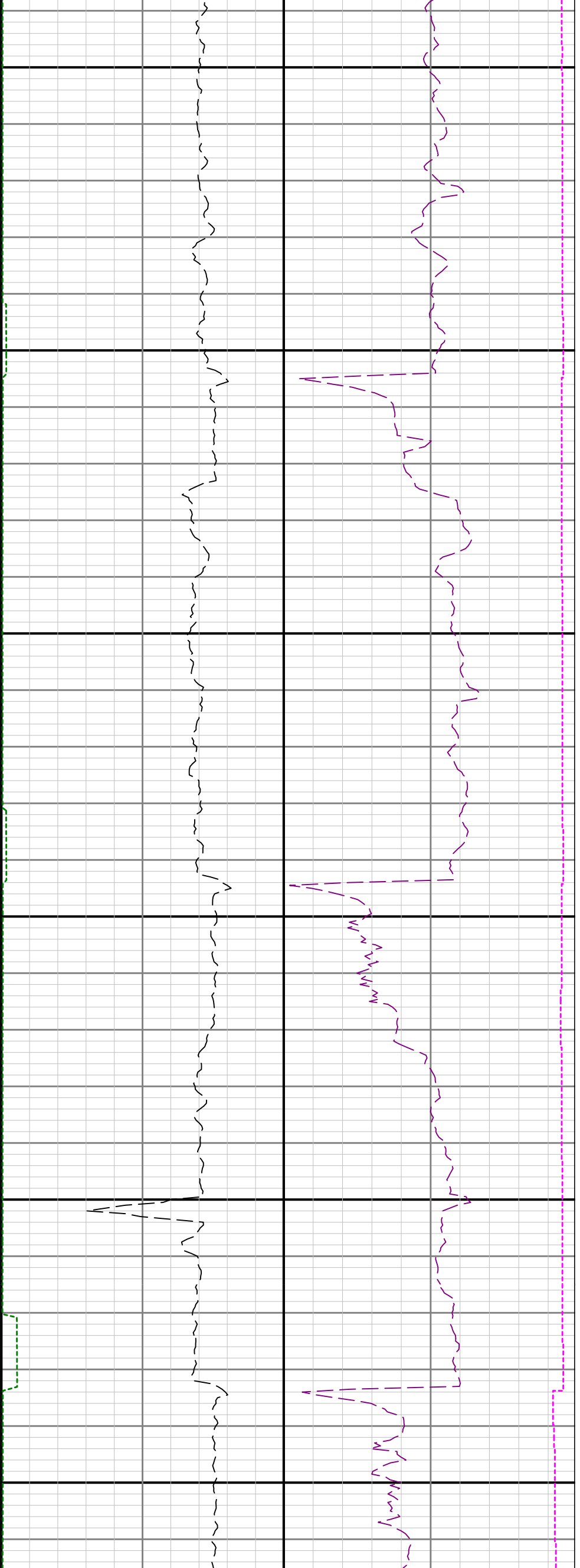
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17400

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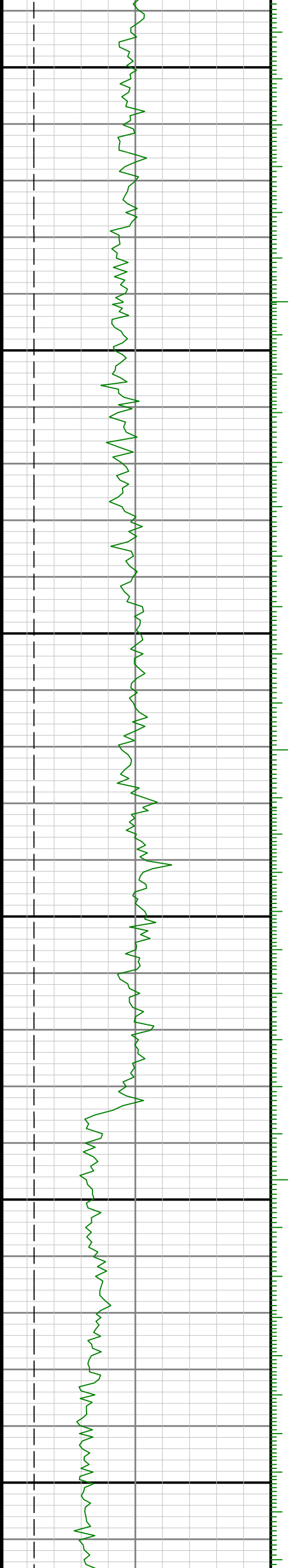


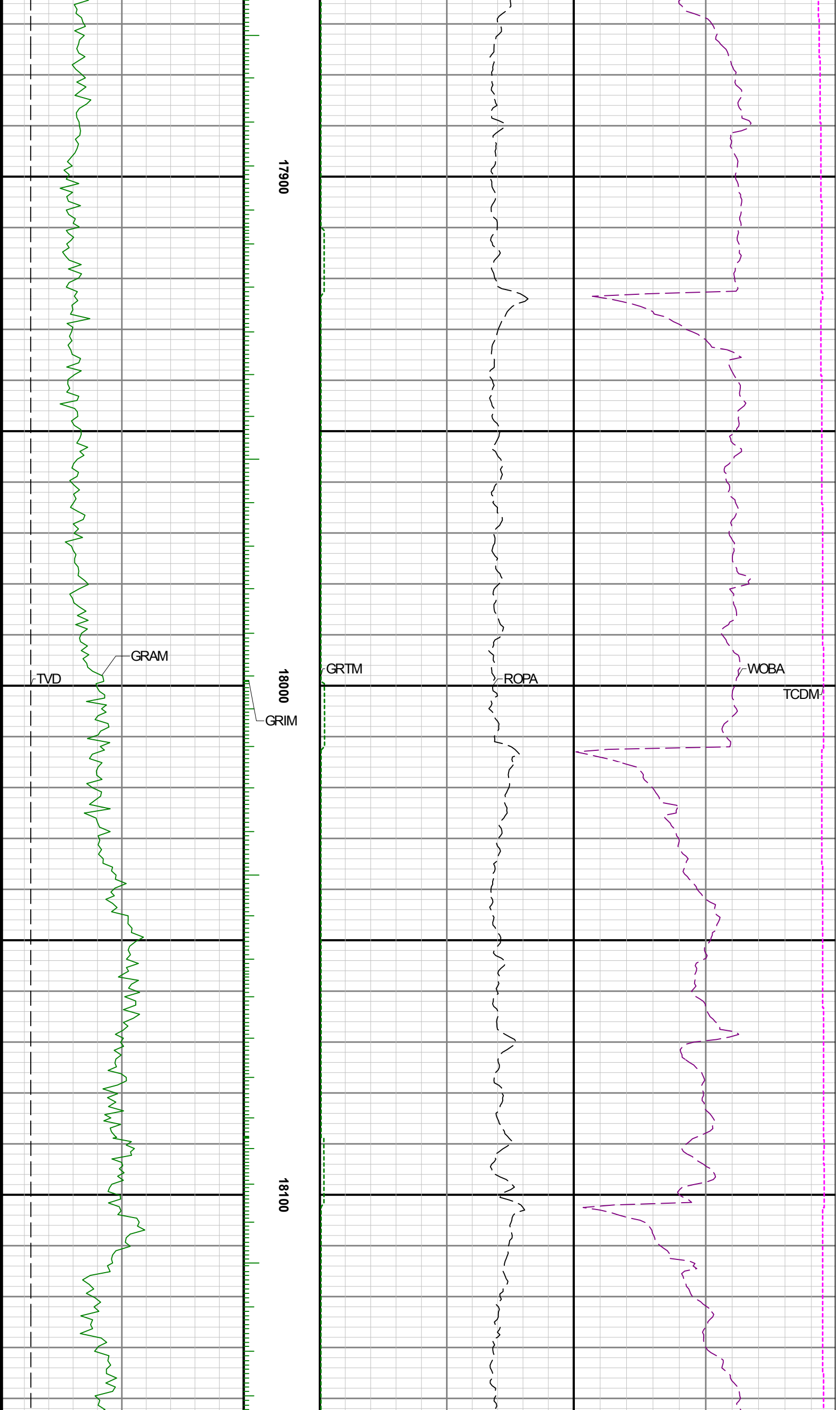


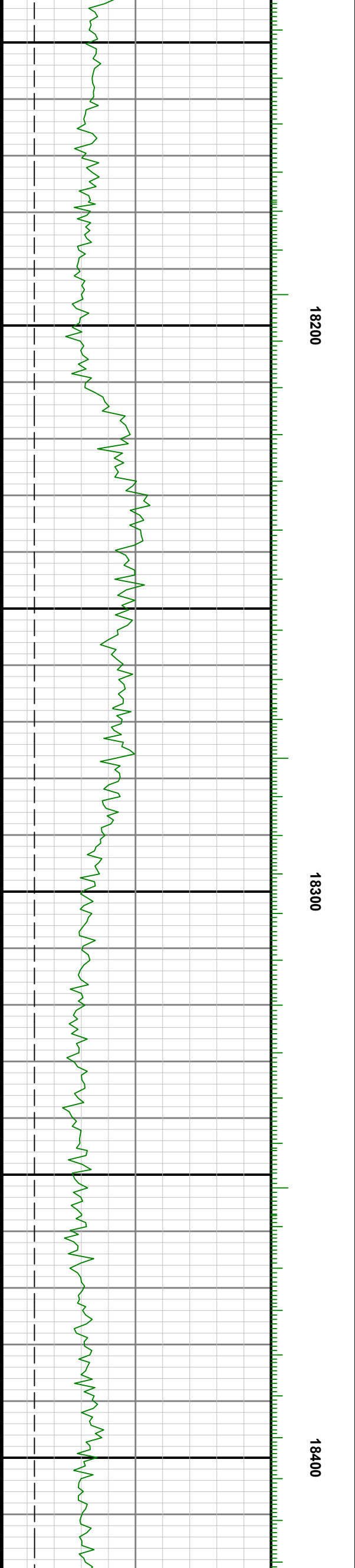
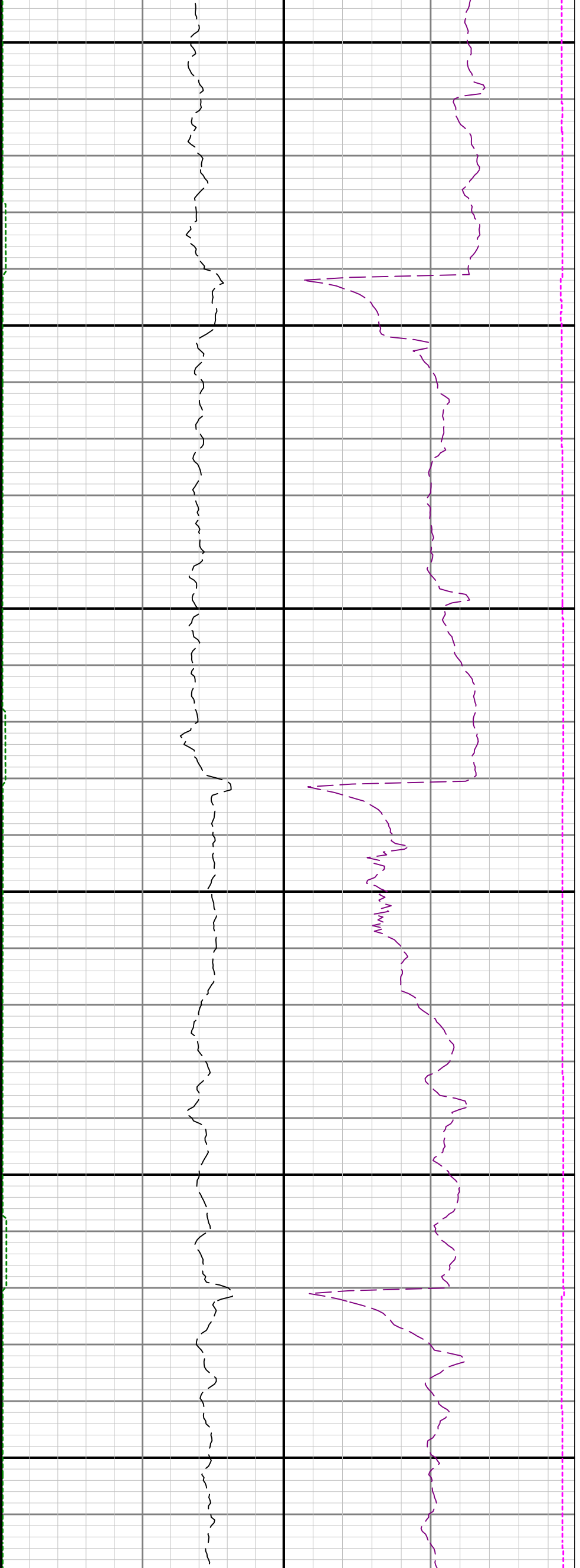
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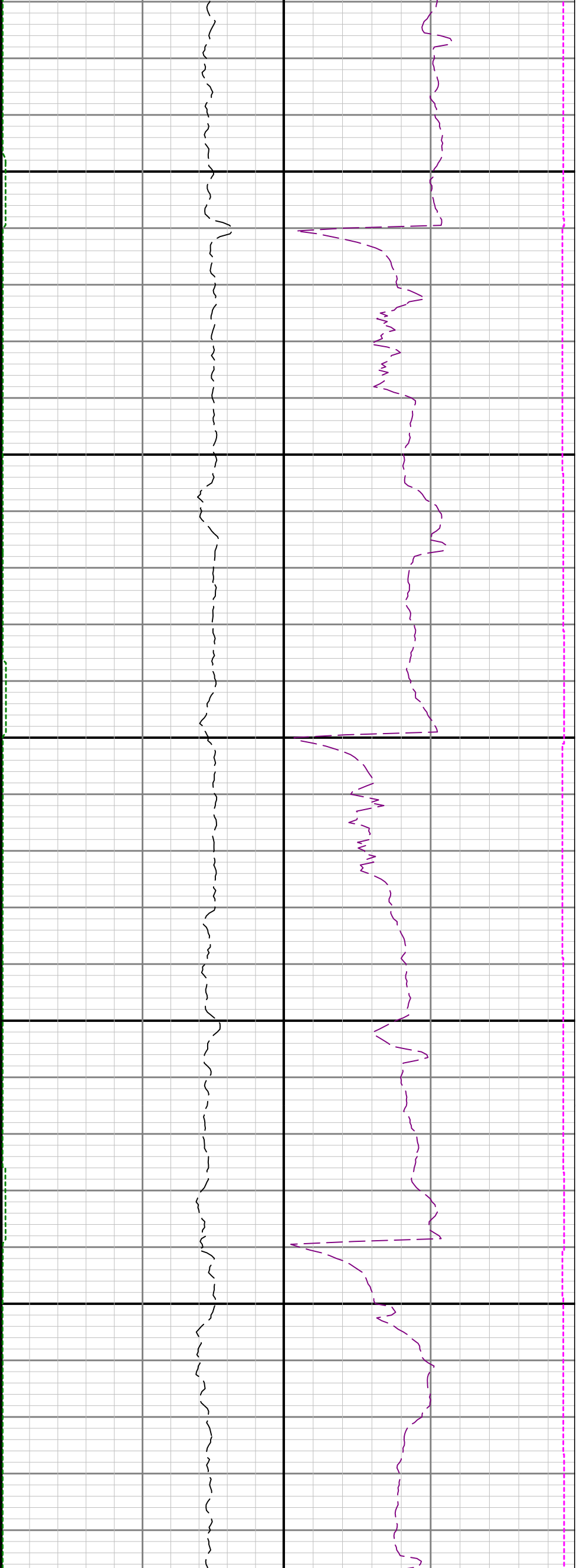
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17800









18500

18600

