



part of Baker Hughes. Unless other contract terms have been agreed to by the parties, each party's liabilities and obligations shall be limited to the amount of the fee payable by Baker Hughes to the other party under the contract.

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	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
2	2	8.750	PDC	3.00	AutoTrak Curve	1621.78	16164.27	1634.00	16170.87	2016-03-08 22:06	2016-03-12 18:29	82.59

Crew

Name		Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite
Adam Schlenz		2016-02-27	2016-03-13	Matt Yule		2016-02-27	2016-03-13	Tyler Wall		2016-03-08	2016-03-13

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+ (%)
2016-03-10 06:00	2	8403.56	Diesel-Oil Based Mud	9.0	22	n/a	0.0	70/21	Flow Line	45000	0.00
2016-03-12 08:00	2	14849.22	Diesel-Oil Based Mud	9.3	20	n/a	0.0	71/18	Flow Line	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	12353084	Near Bit Inclination	5.93	6.60	7.000	4.330
2	ATC_SU	12353084	Near Bit VSS	5.93	6.60	7.000	4.330
2	ATC_MWD	12141354	Gamma (single)	2.17	12.22	7.000	3.250
2	ATC_MWD	12141354	Directional (mag)	12.24	22.29	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

Comments

1	On 3/10/16, the well was drilled to a depth of 6307 feet TVD).
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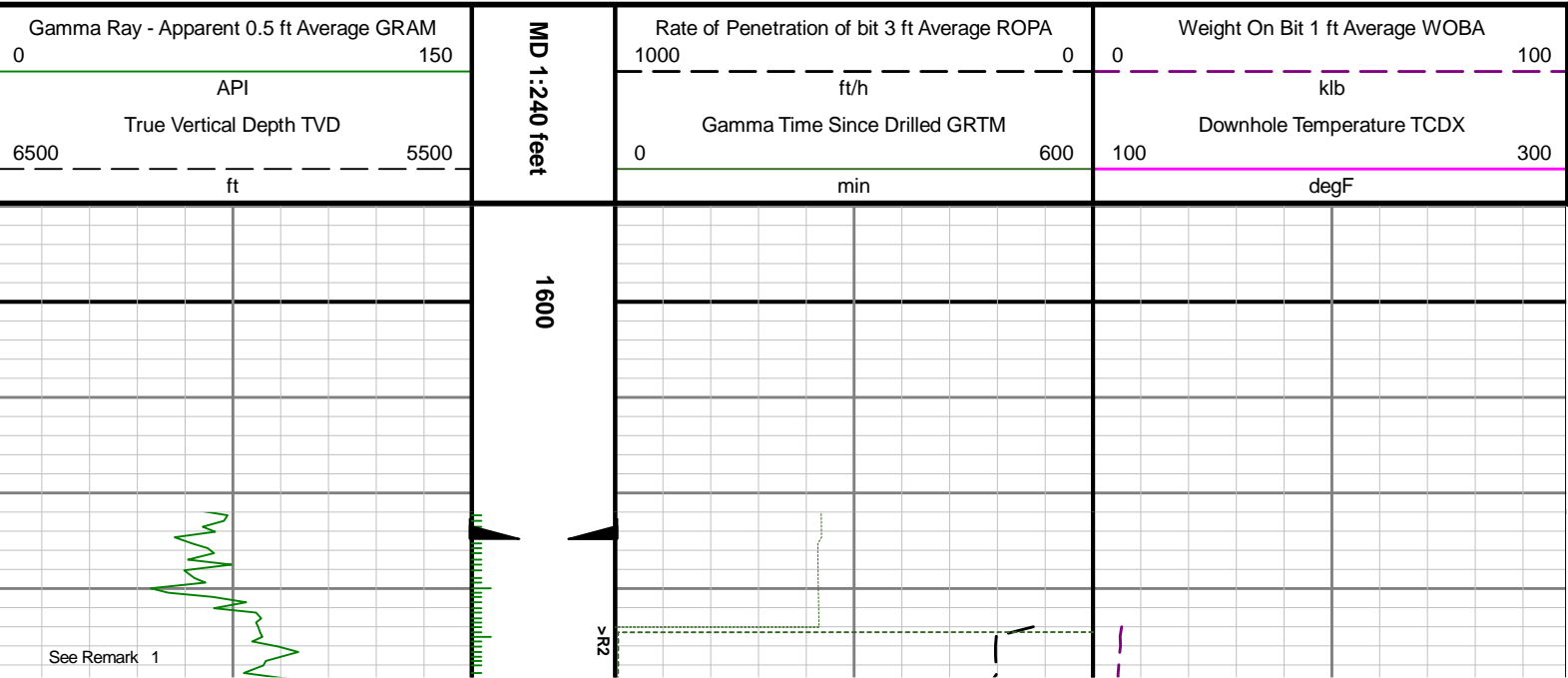
2 Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes INTEQ logging engineers. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to INTEQ are being used.

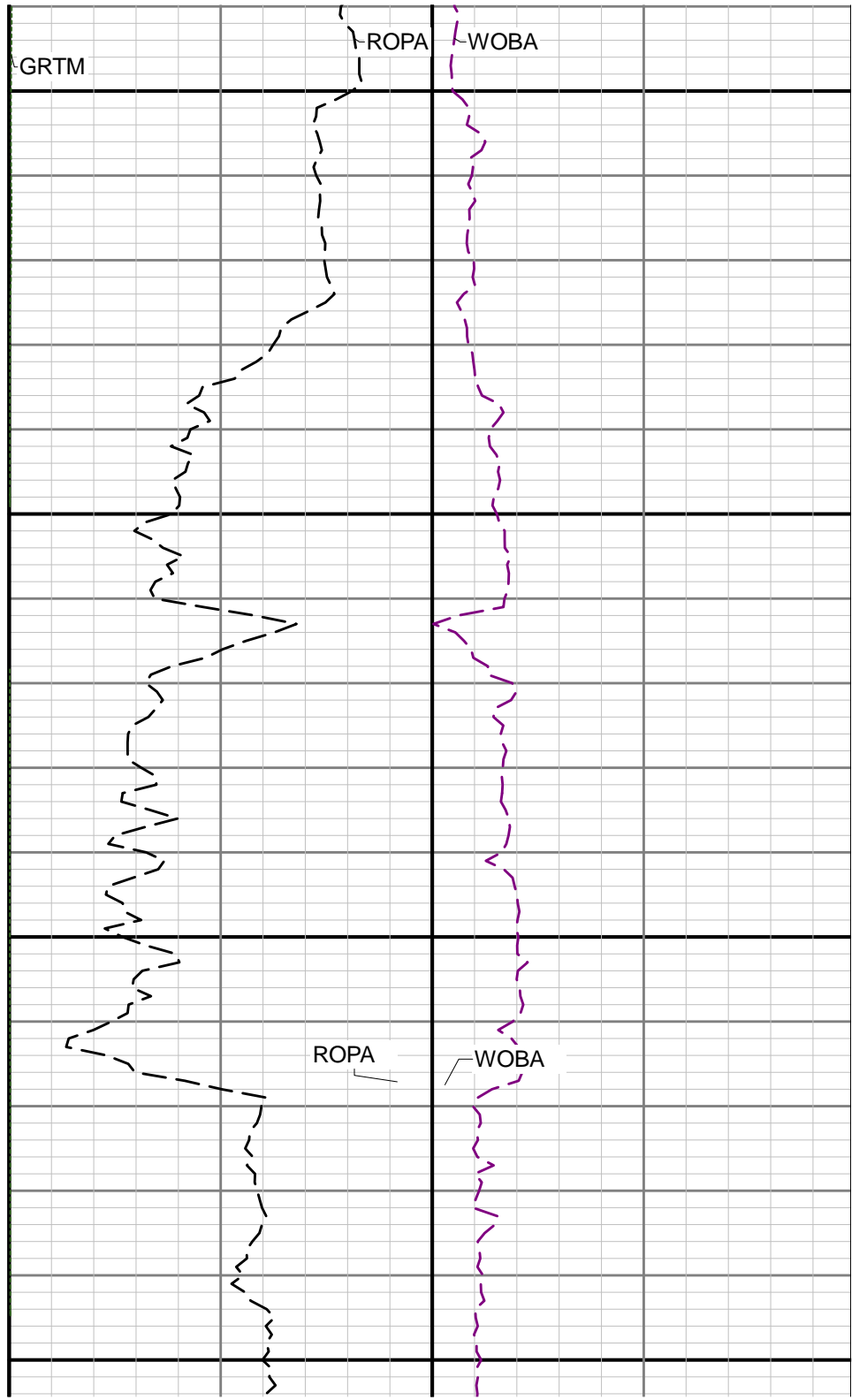
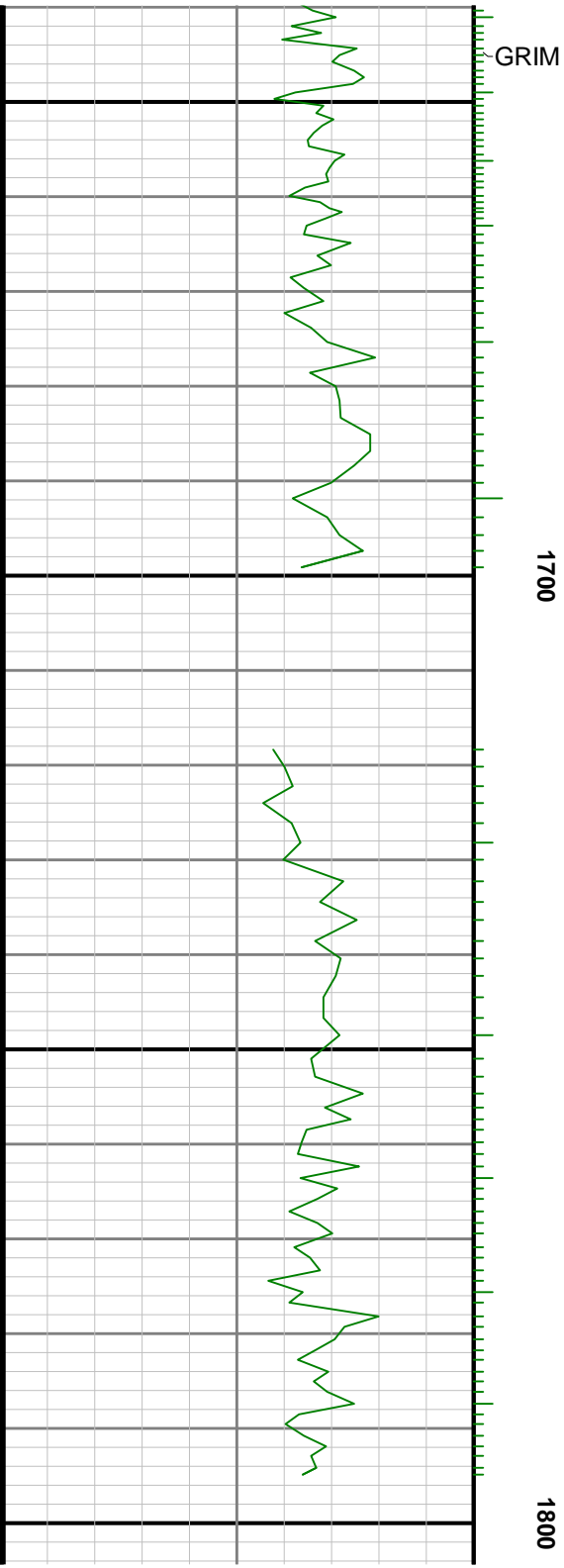
Remarks

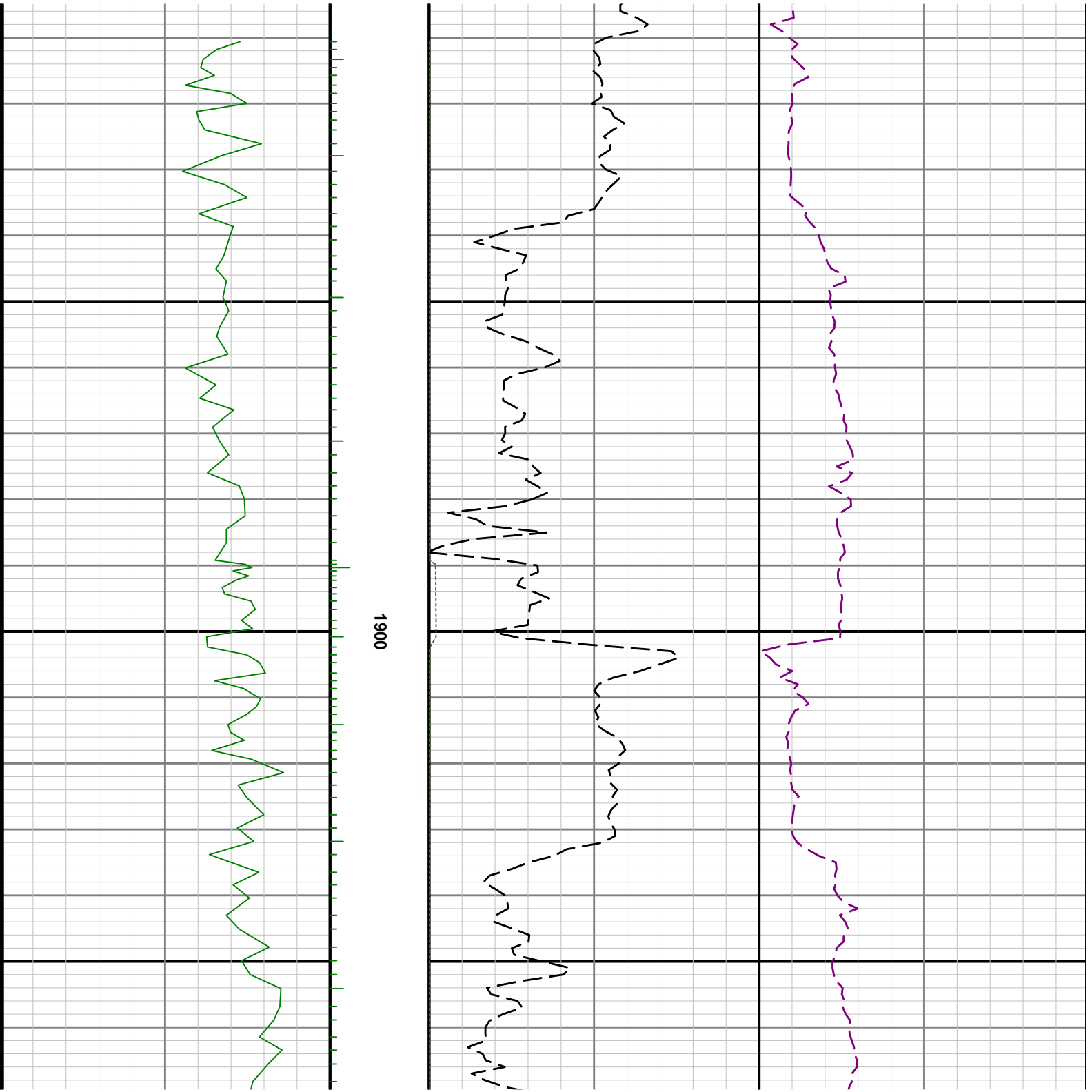
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	1635.00	8.750	2	Gamma Ray logging operations began at 1635 feet MD (1635 feet TVD)
2	16140.00	8.750	2	The interval from 16144 to 16170 feet MD (6307 to 6307 feet TVD) was not logged due to the sensor to bit offset at TD.

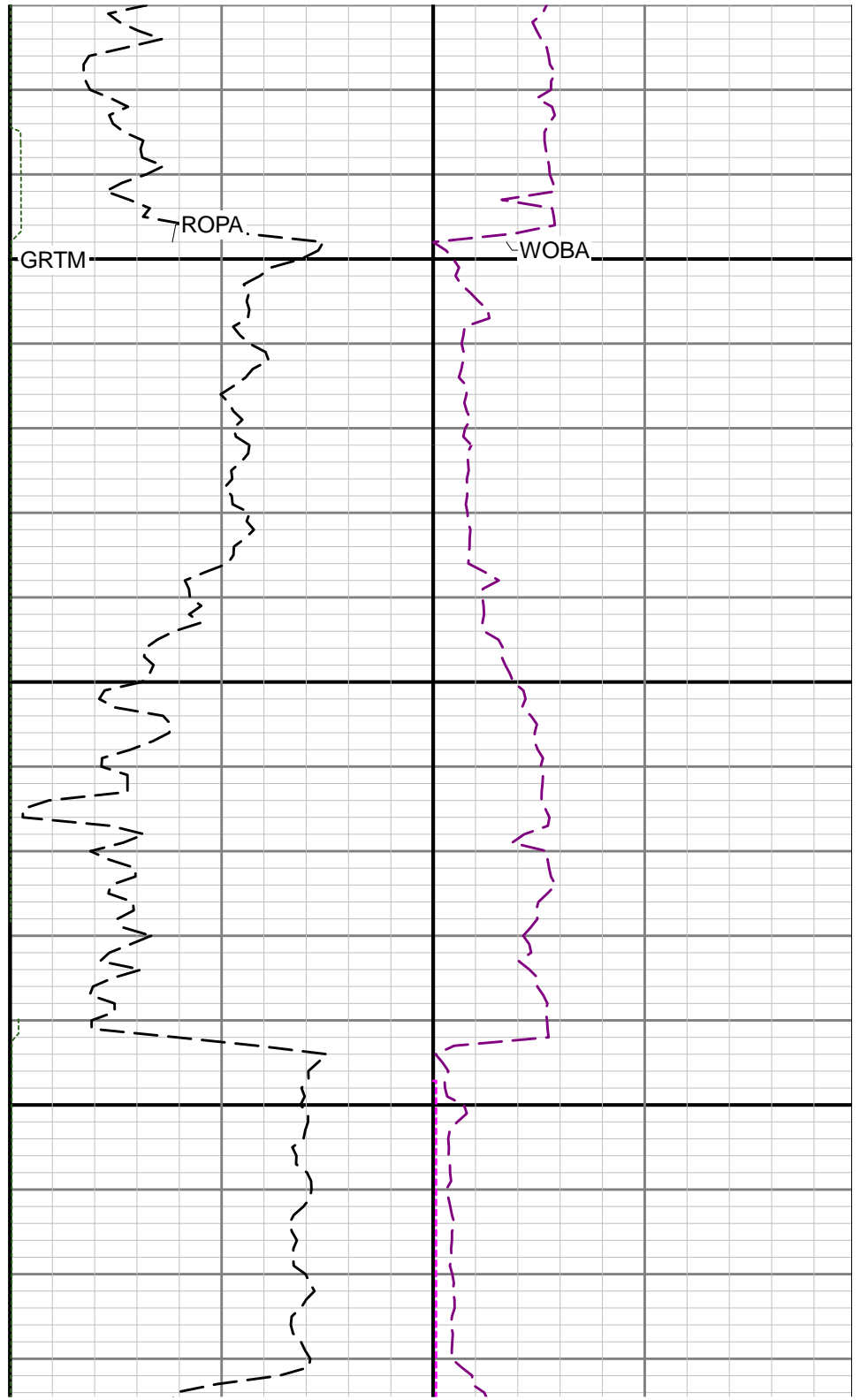
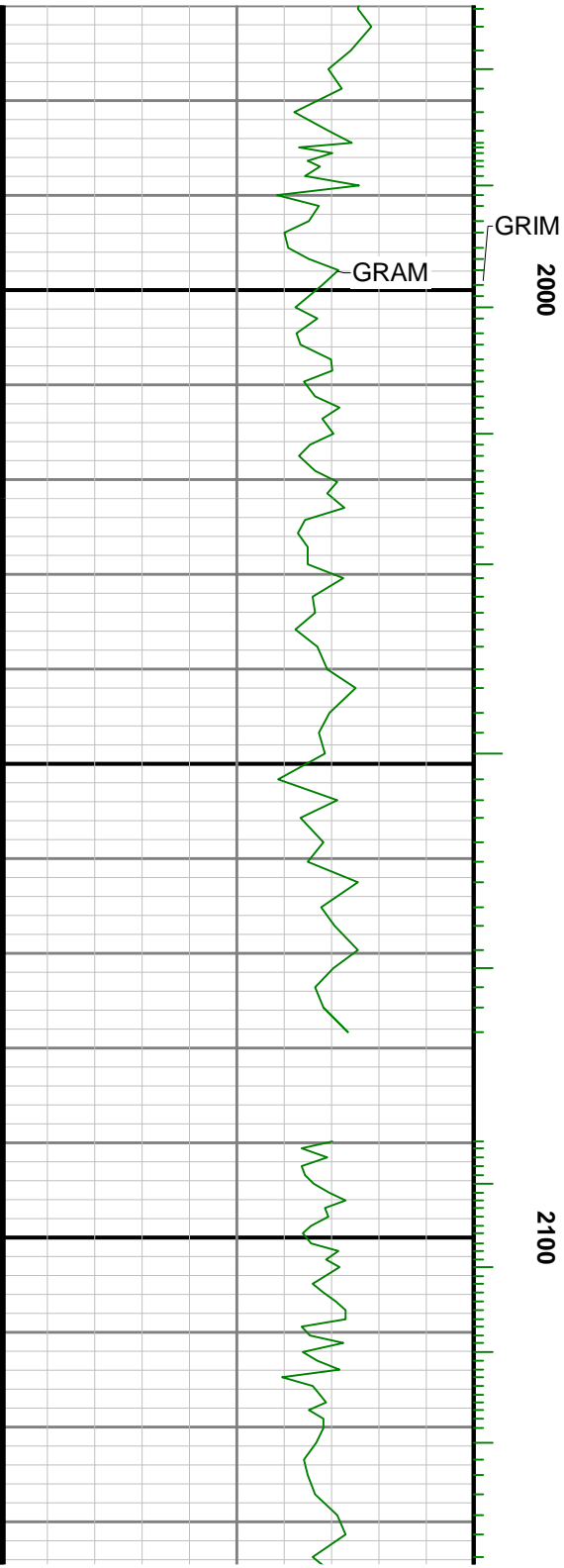
Curve Mnemonics

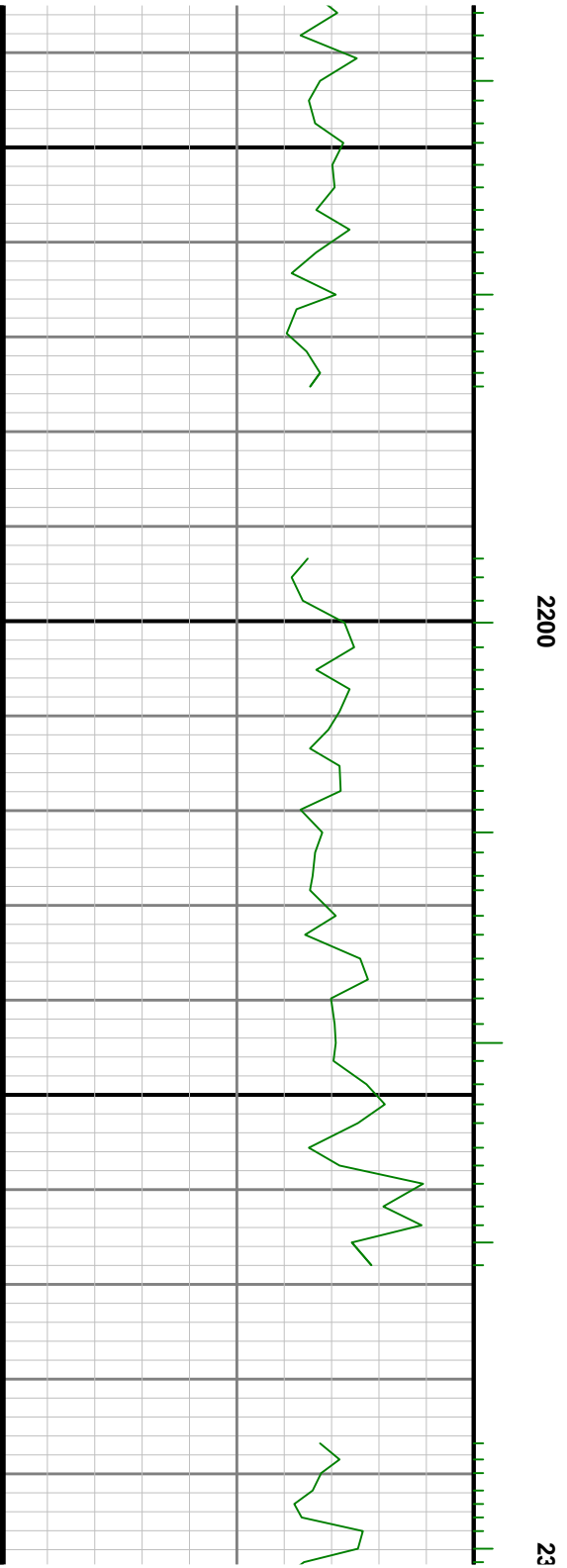
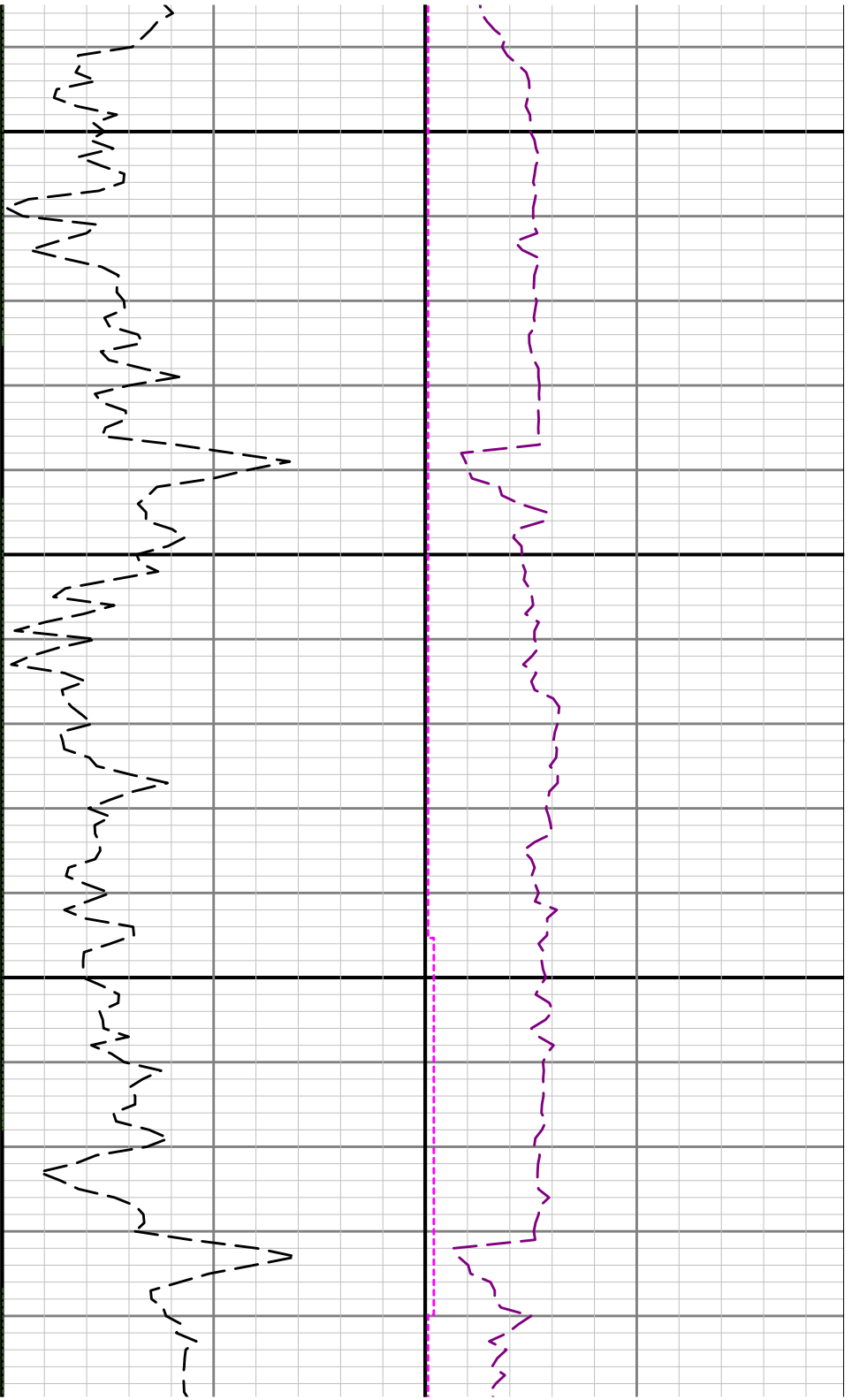
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
GRAM	Gamma Ray - Apparent 0.5 ft Average	API
GRIM	Gamma Ray Data Point Indicator	unitless
GRTM	Gamma Time Since Drilled	min
TCDX	Downhole Temperature	degF
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb

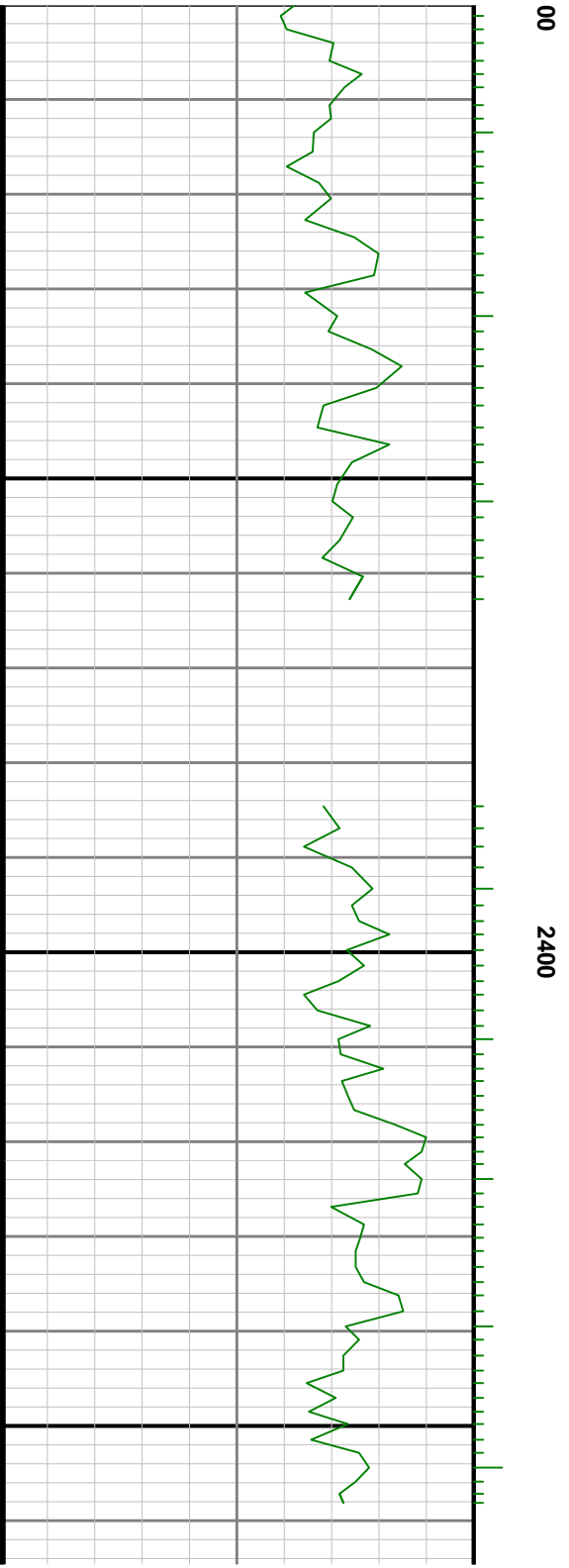
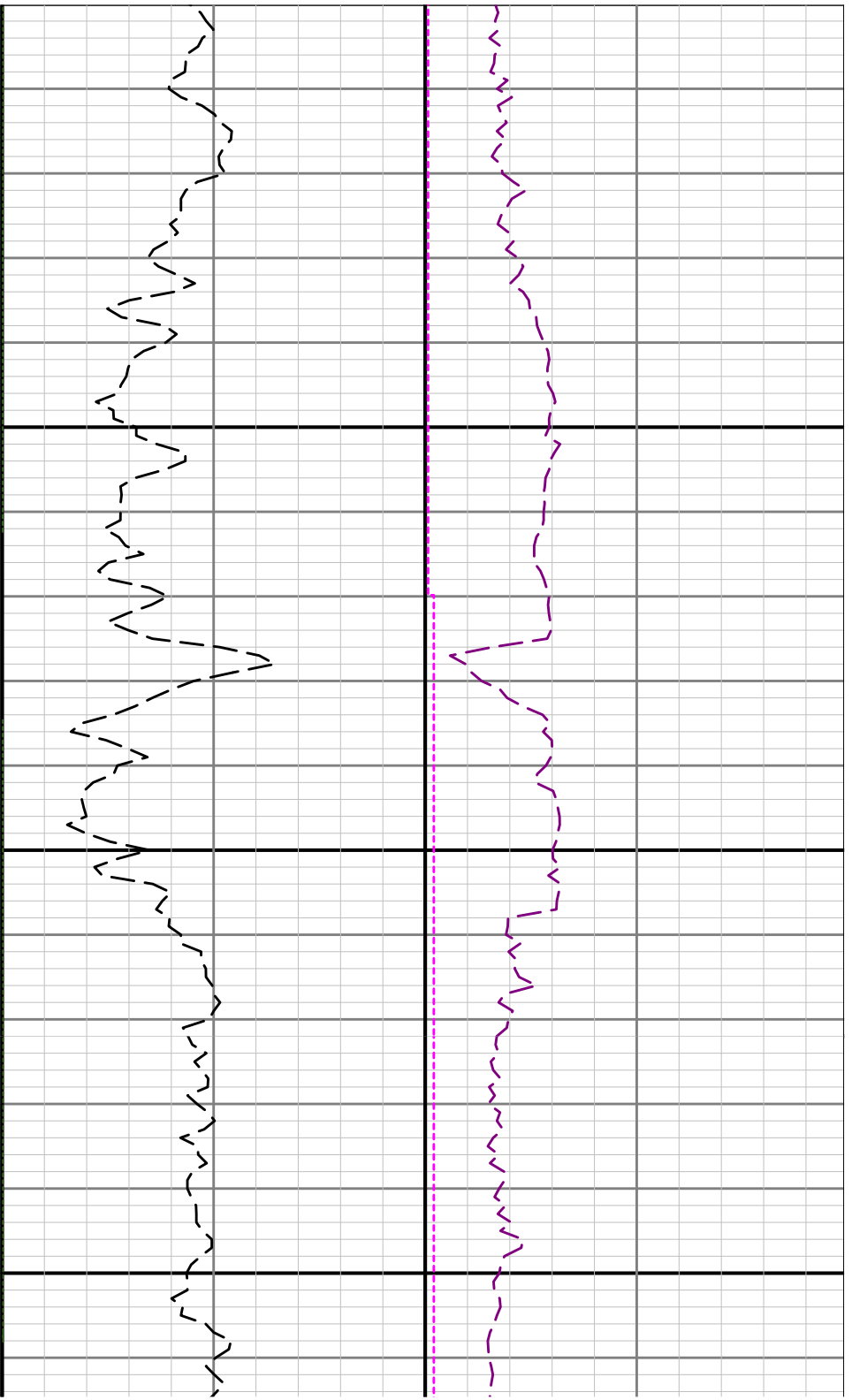




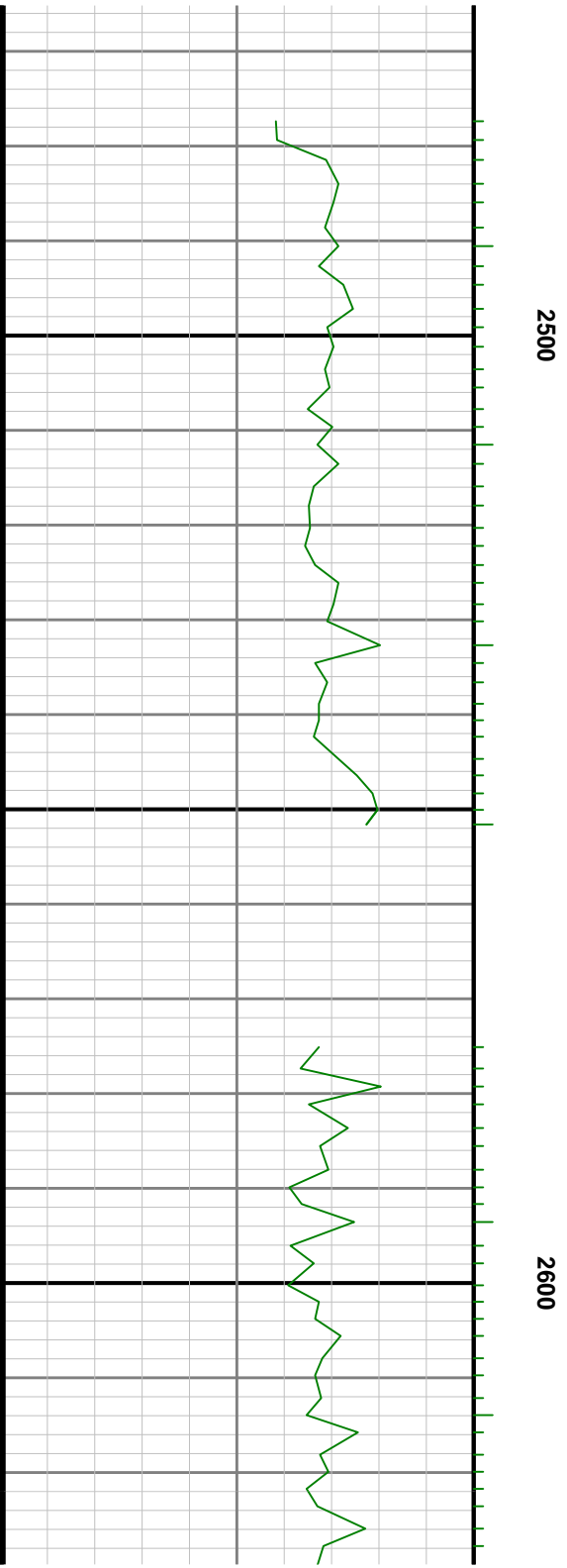
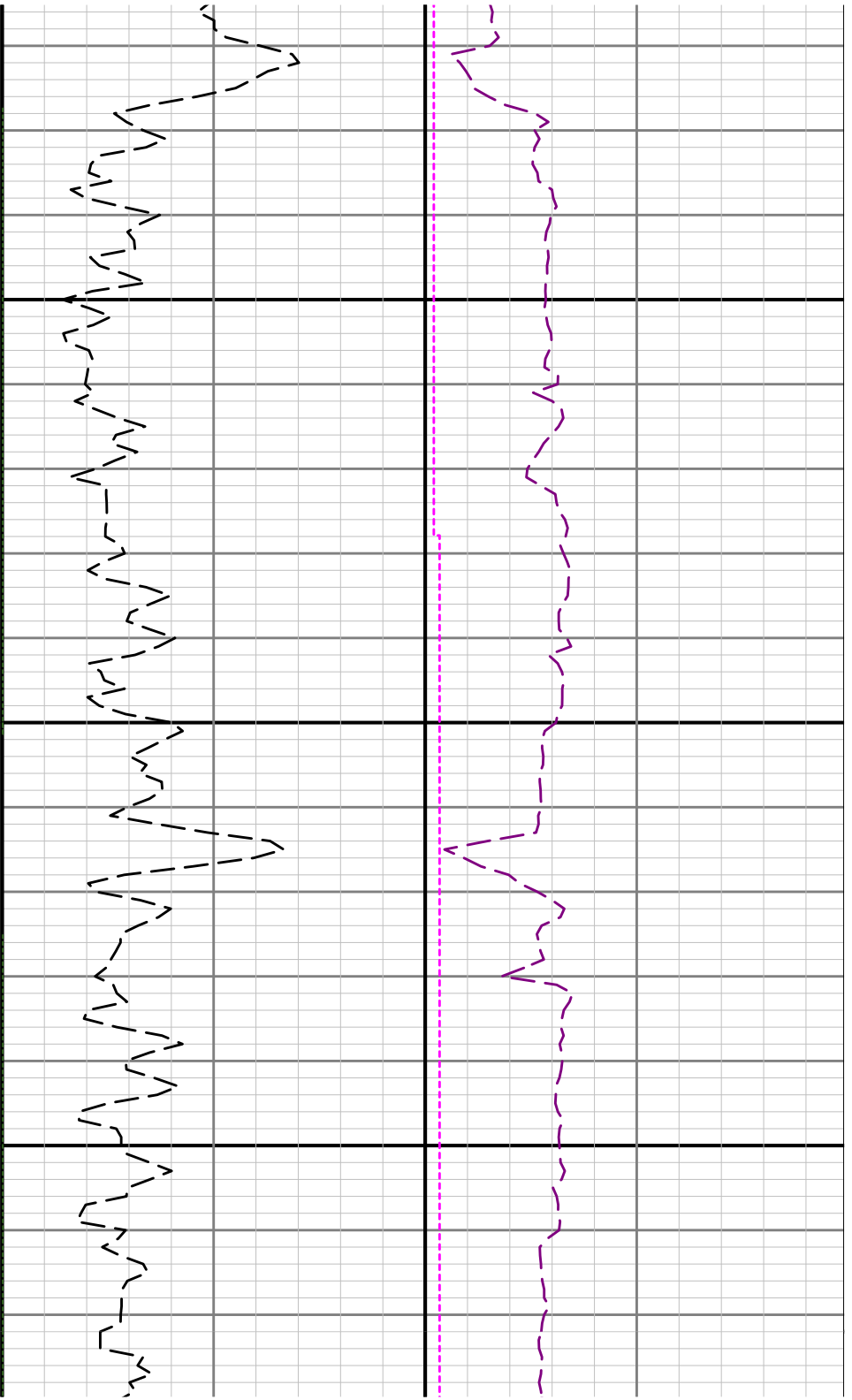


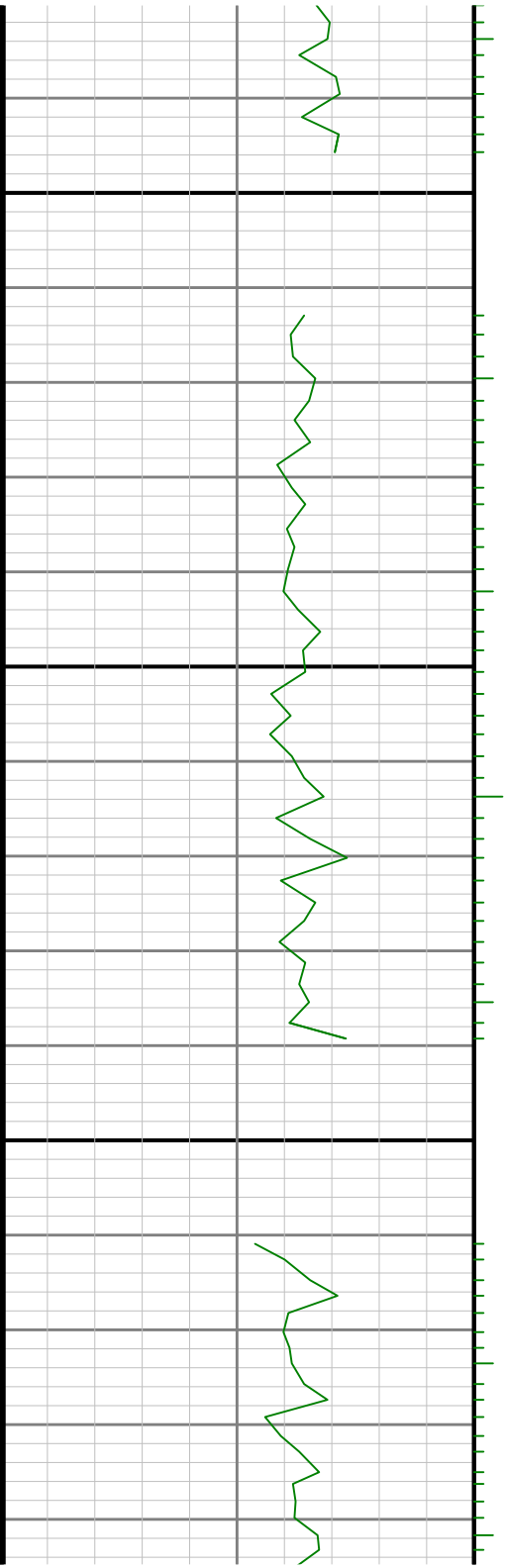




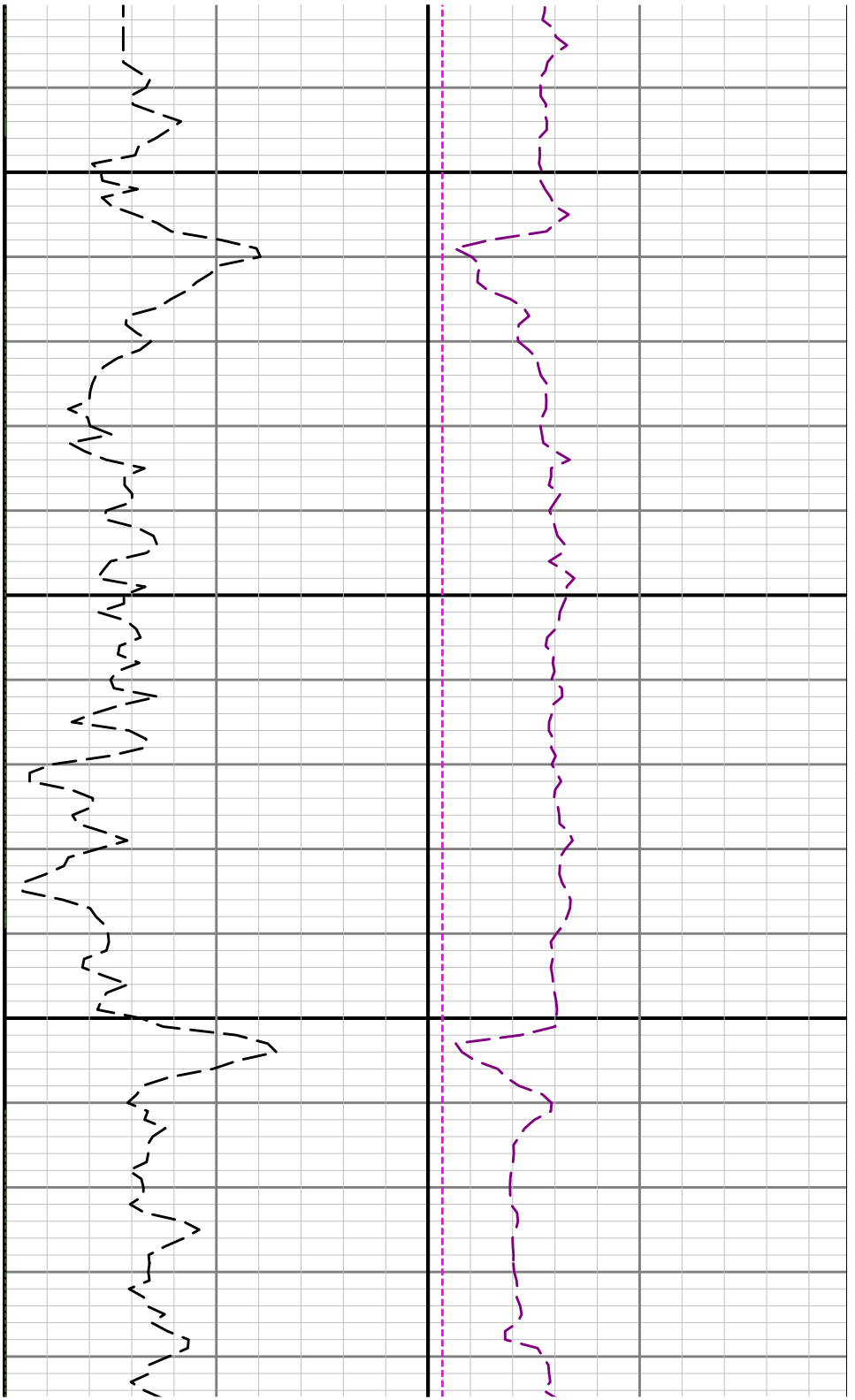


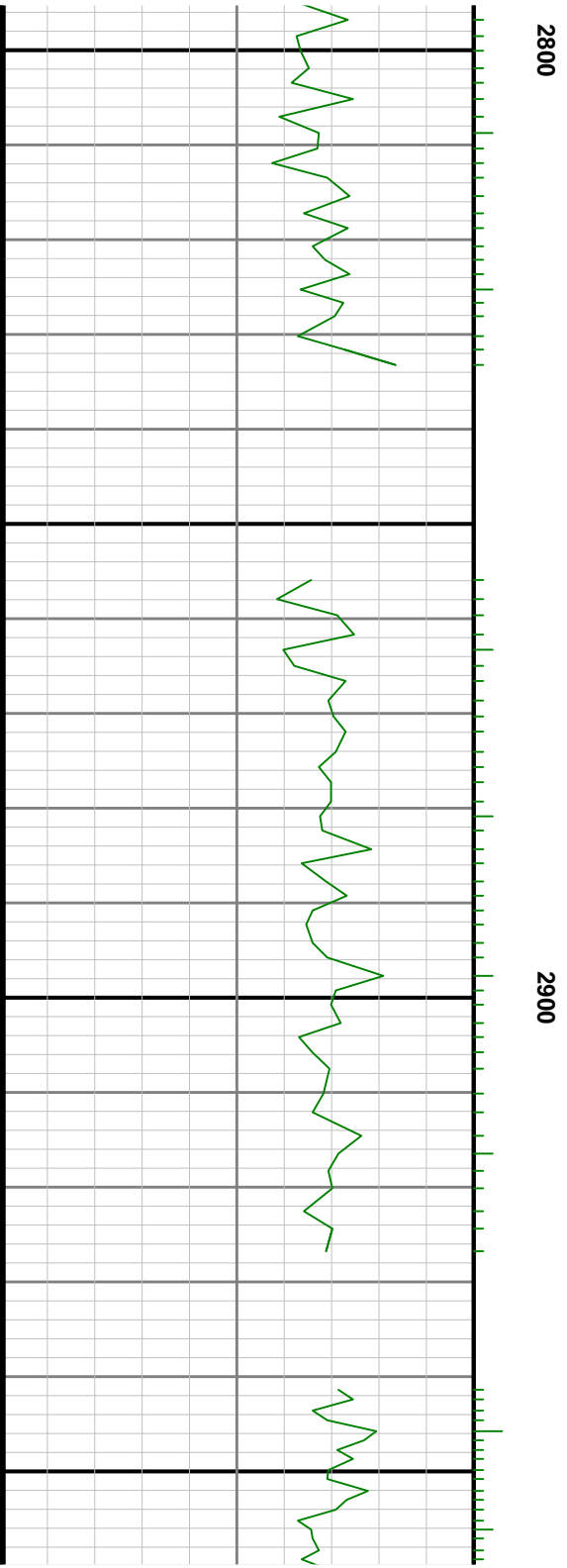
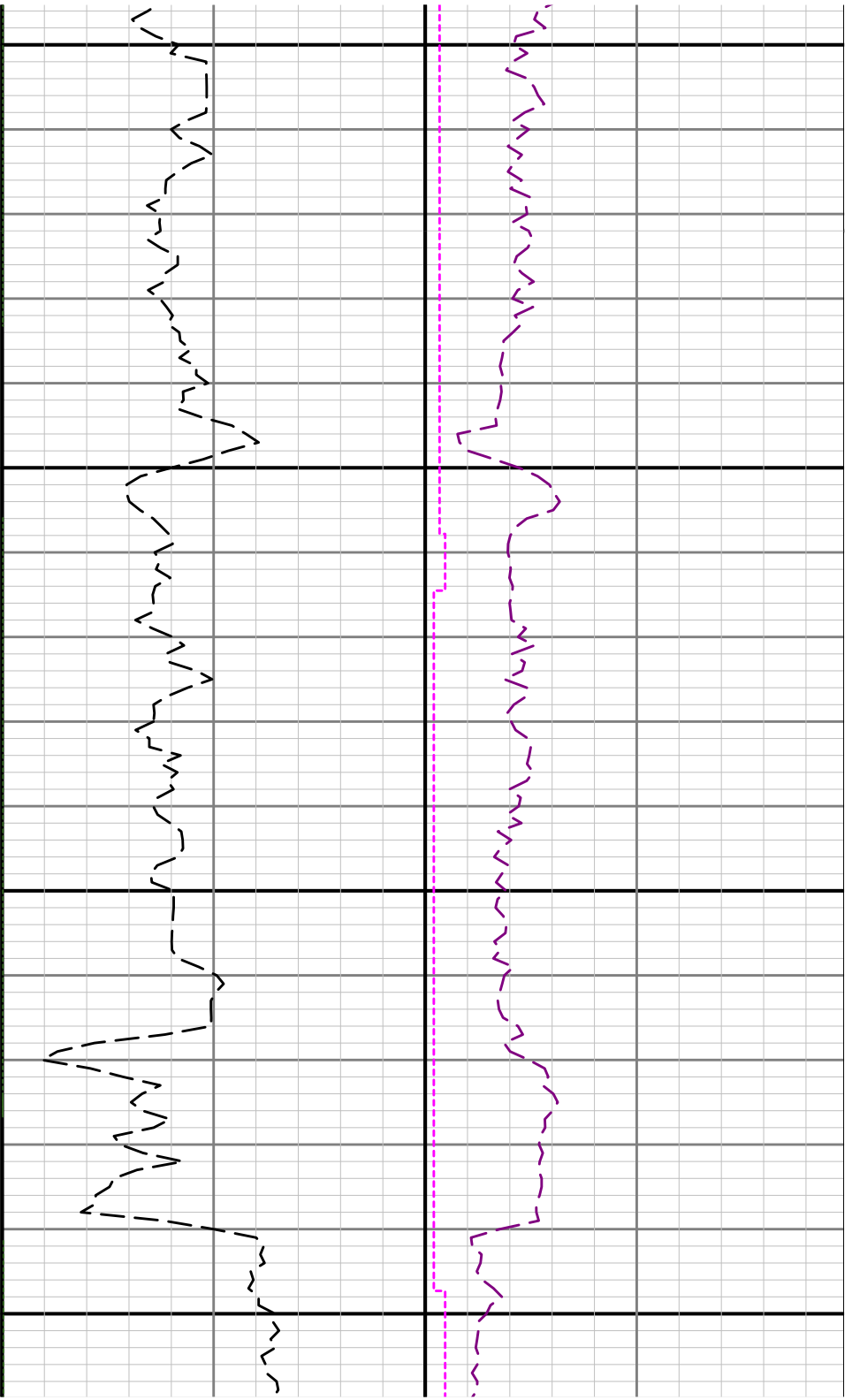


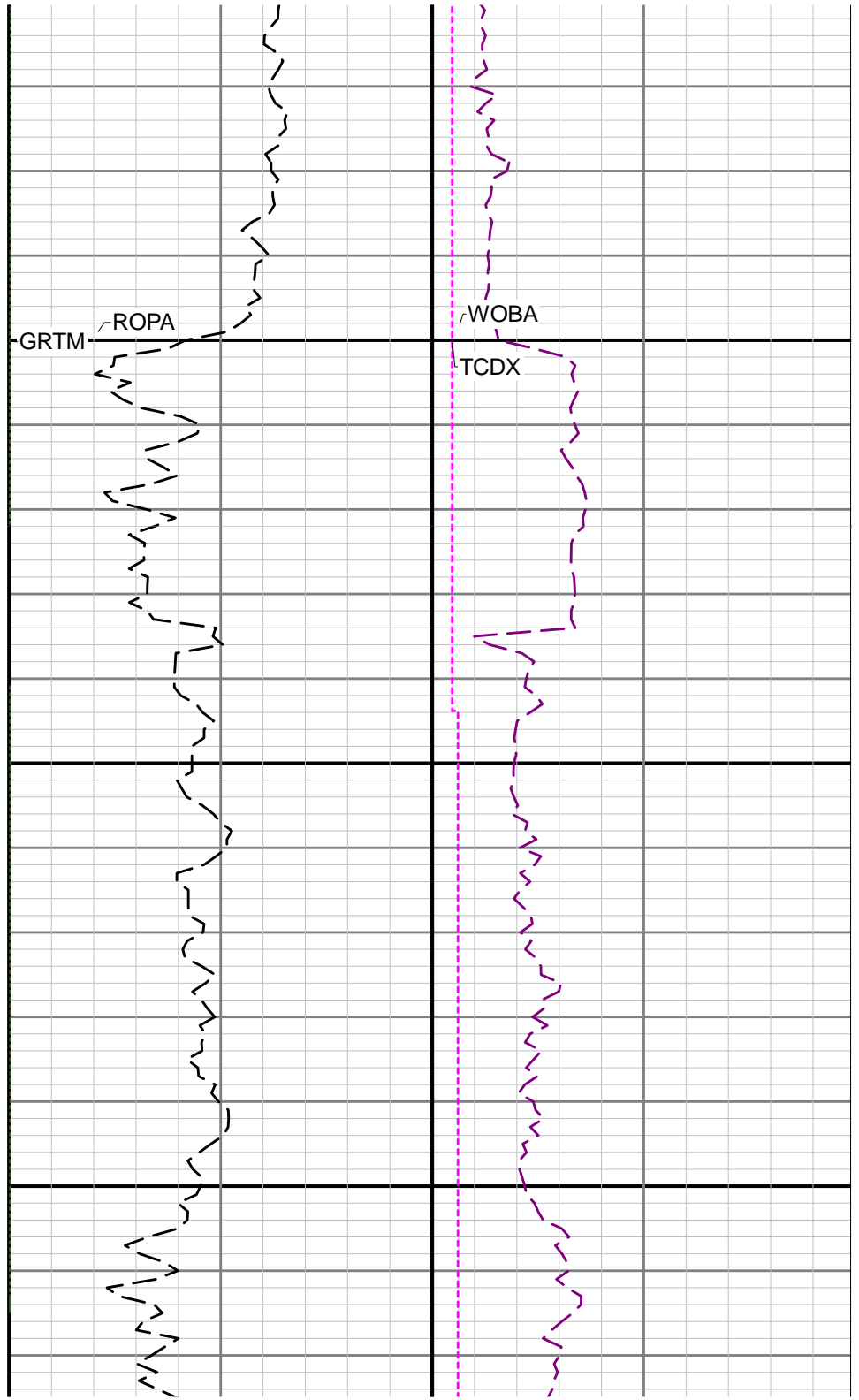
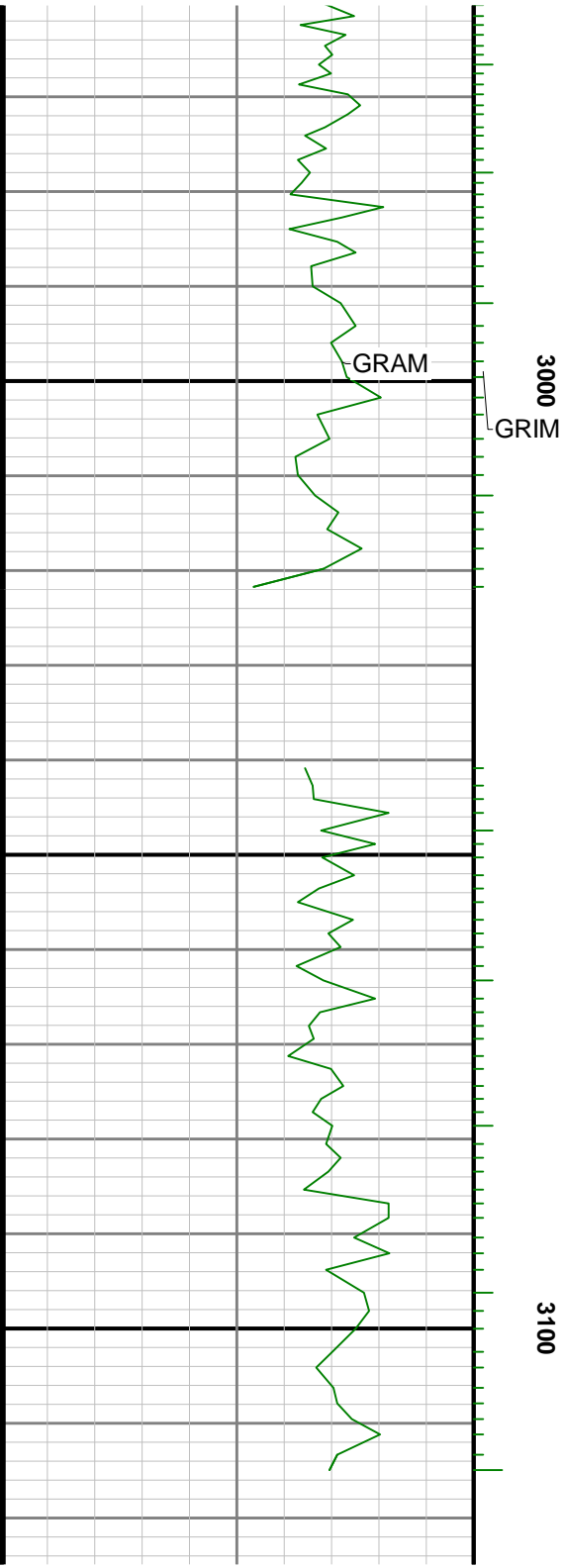


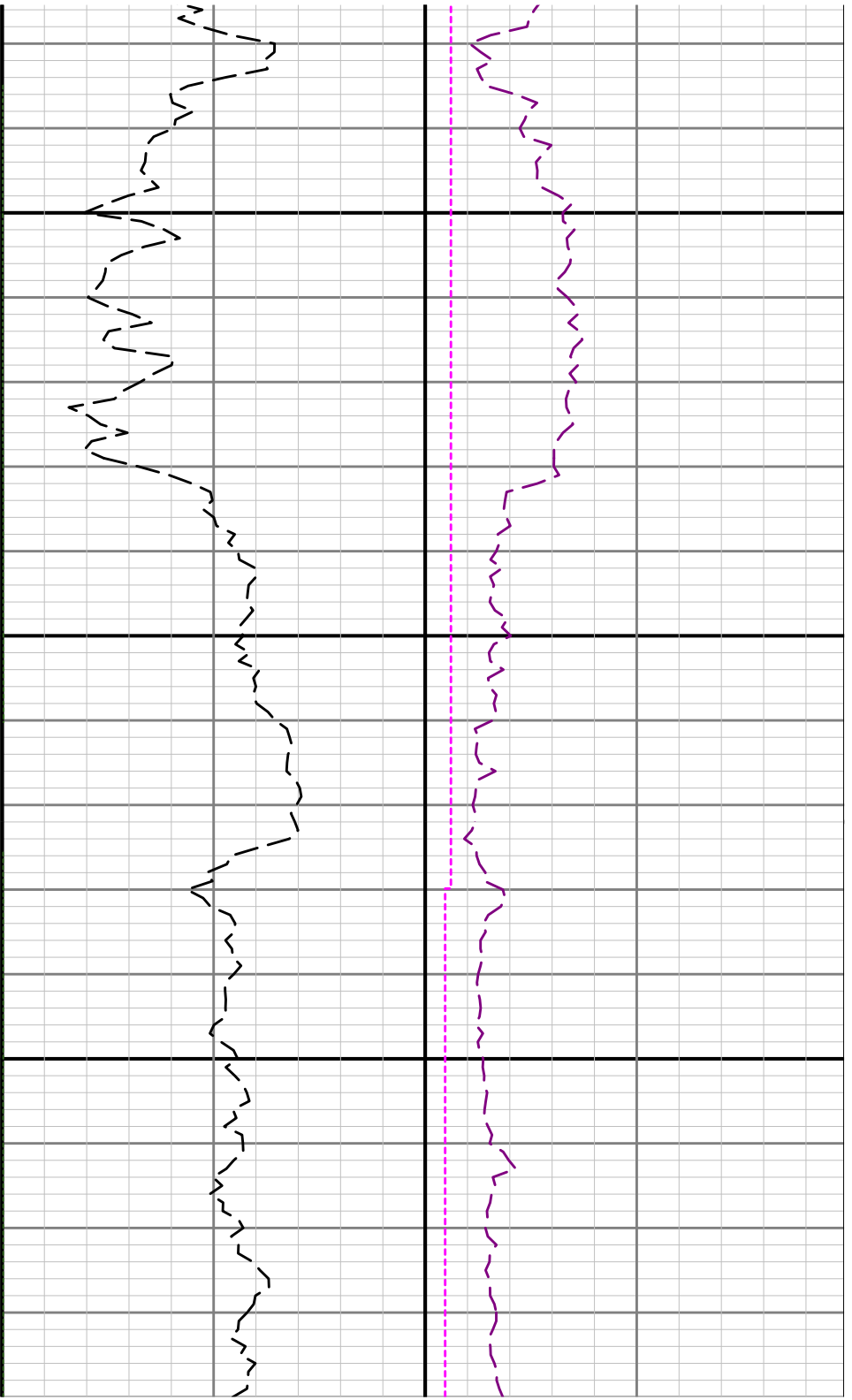


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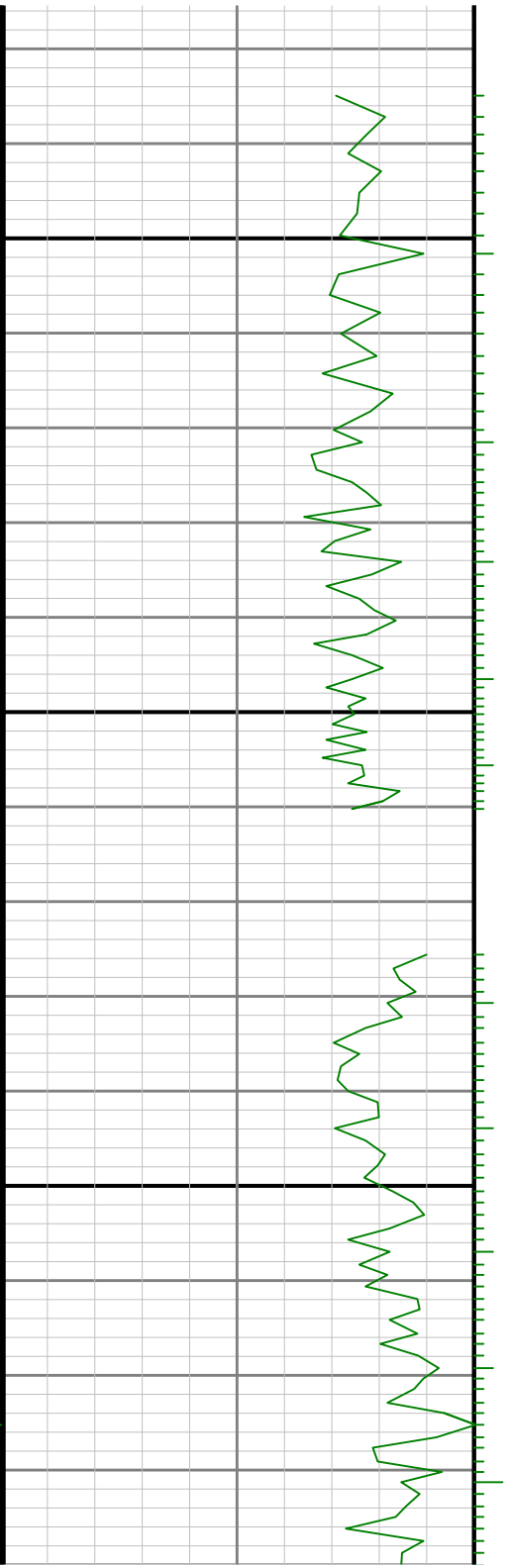


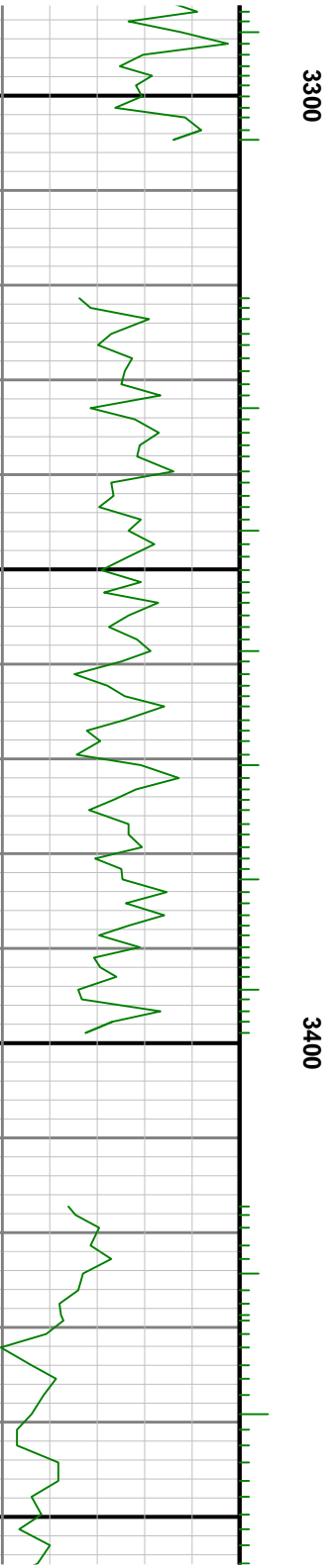
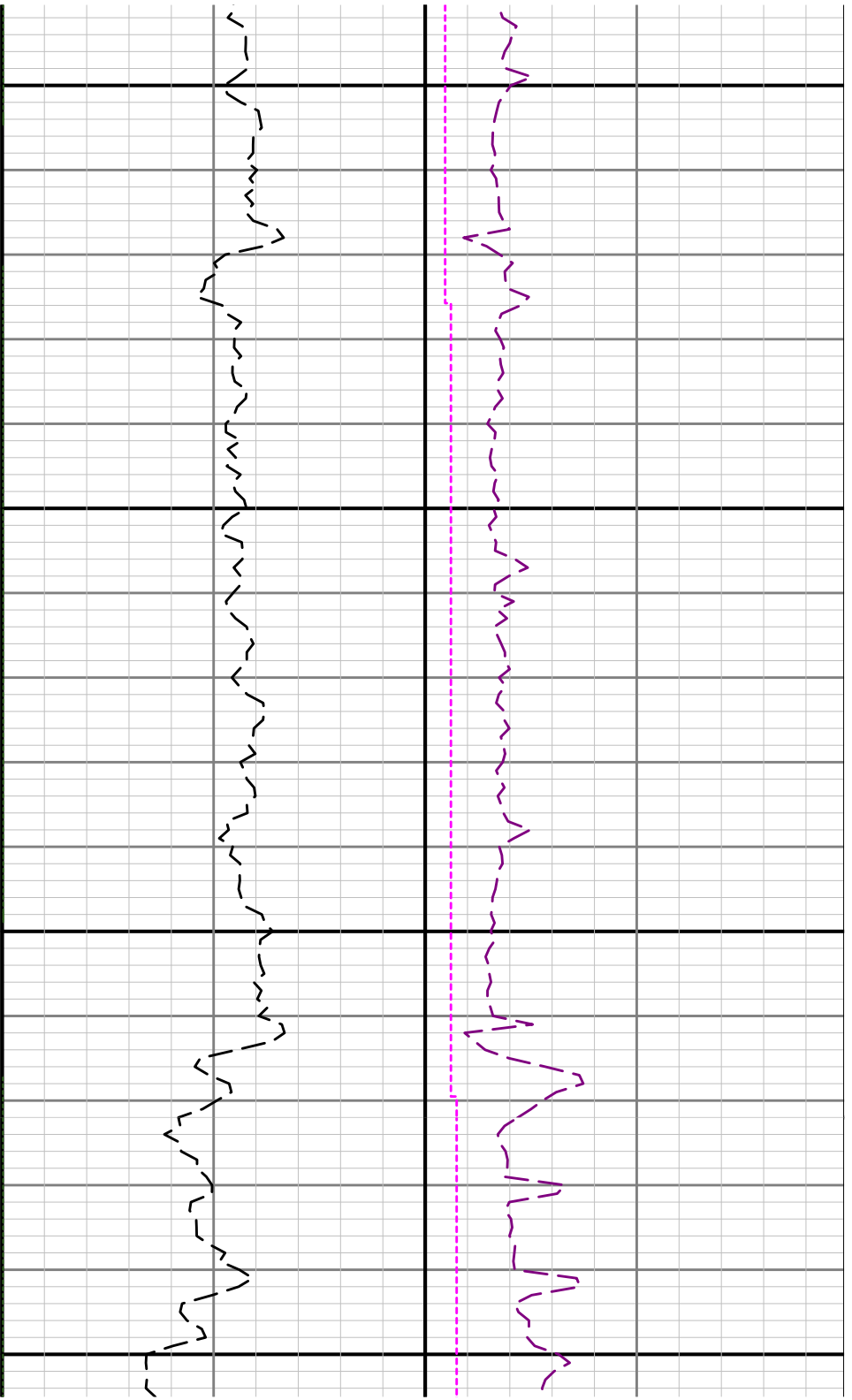


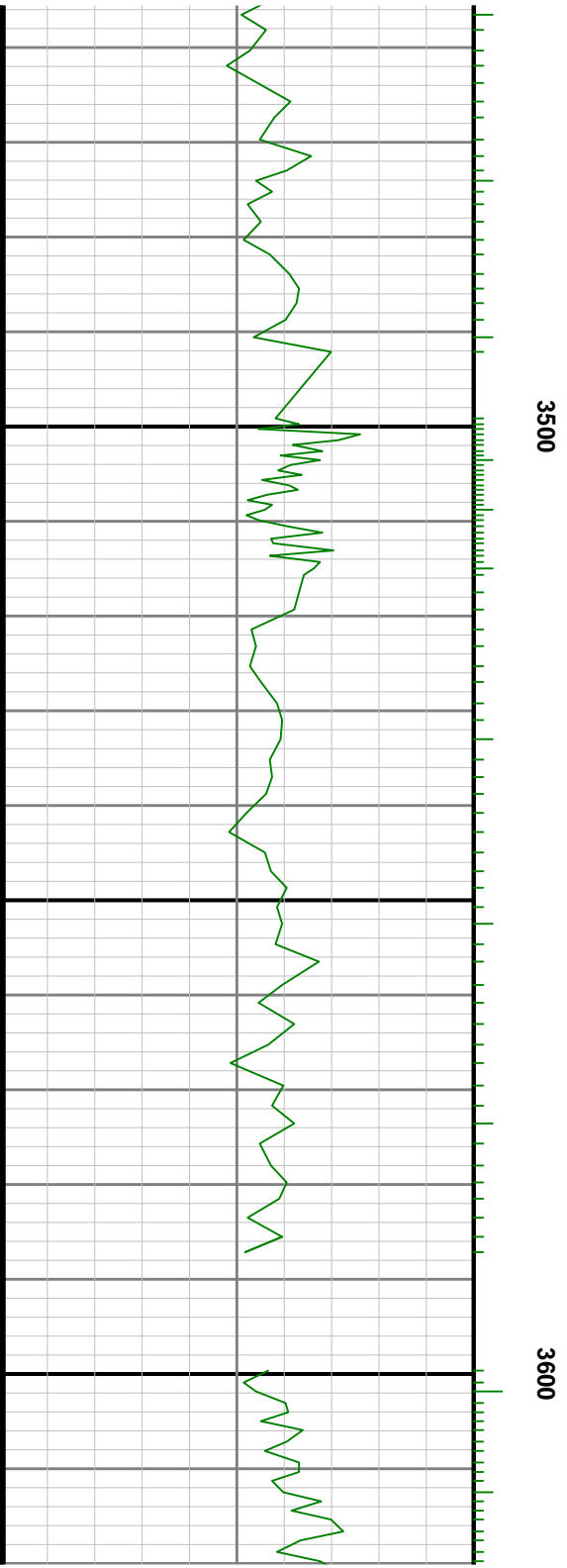
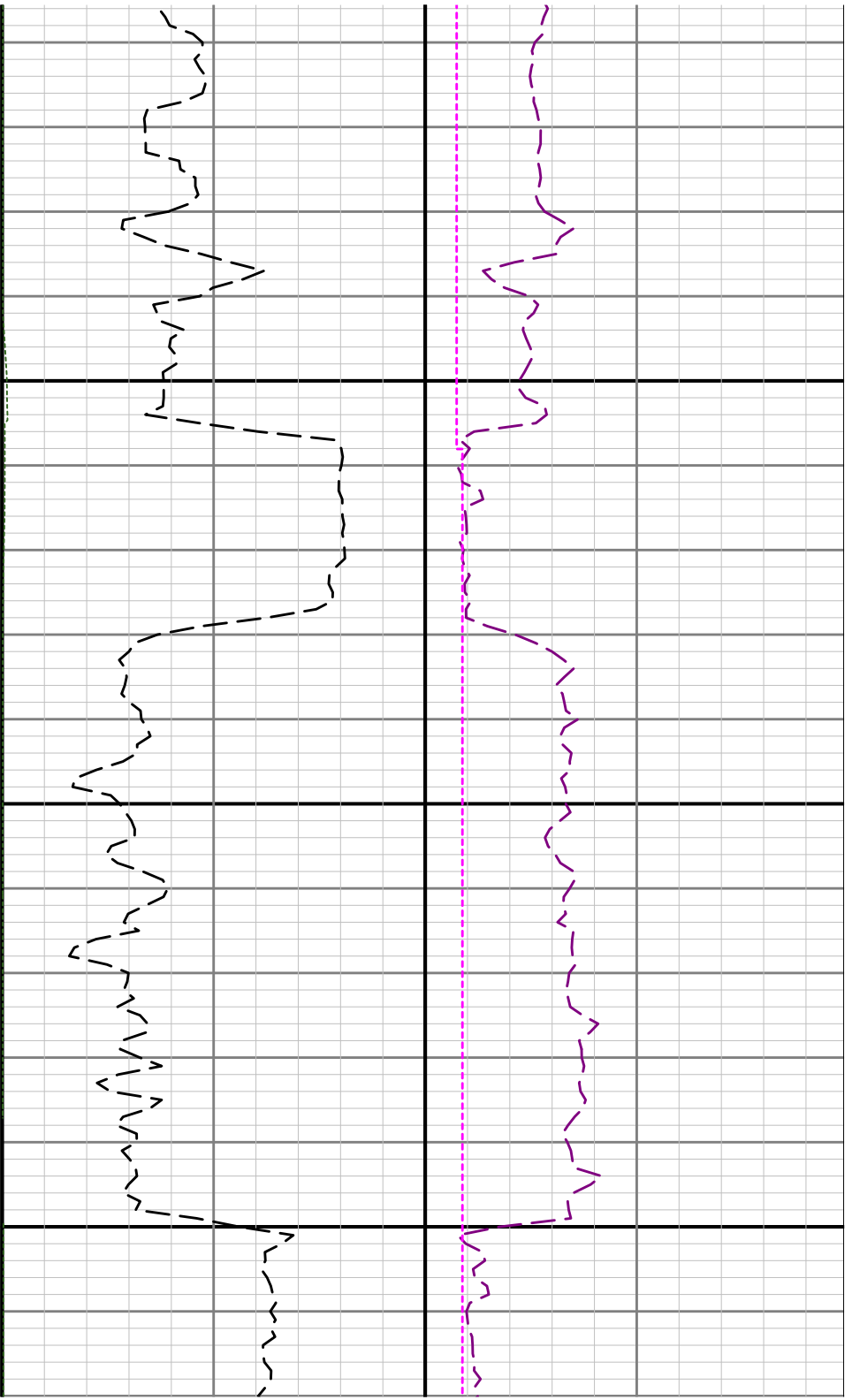


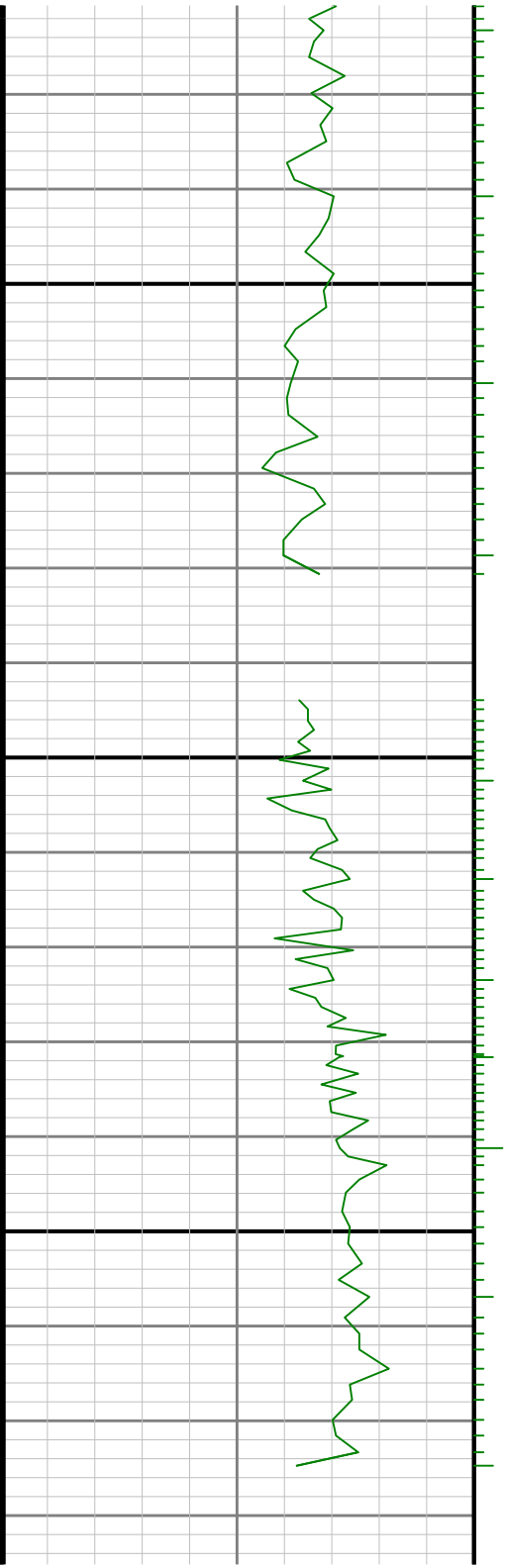


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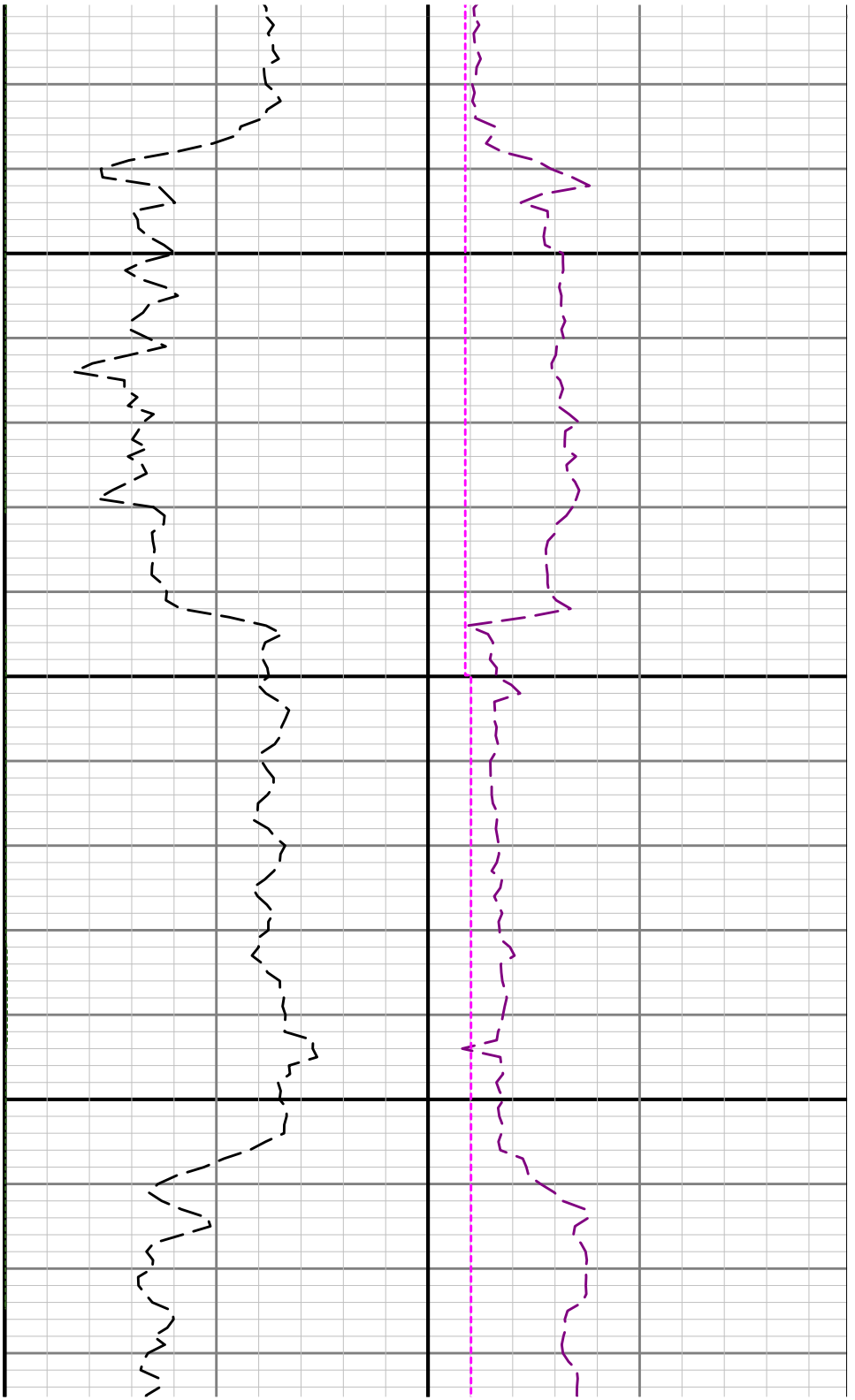




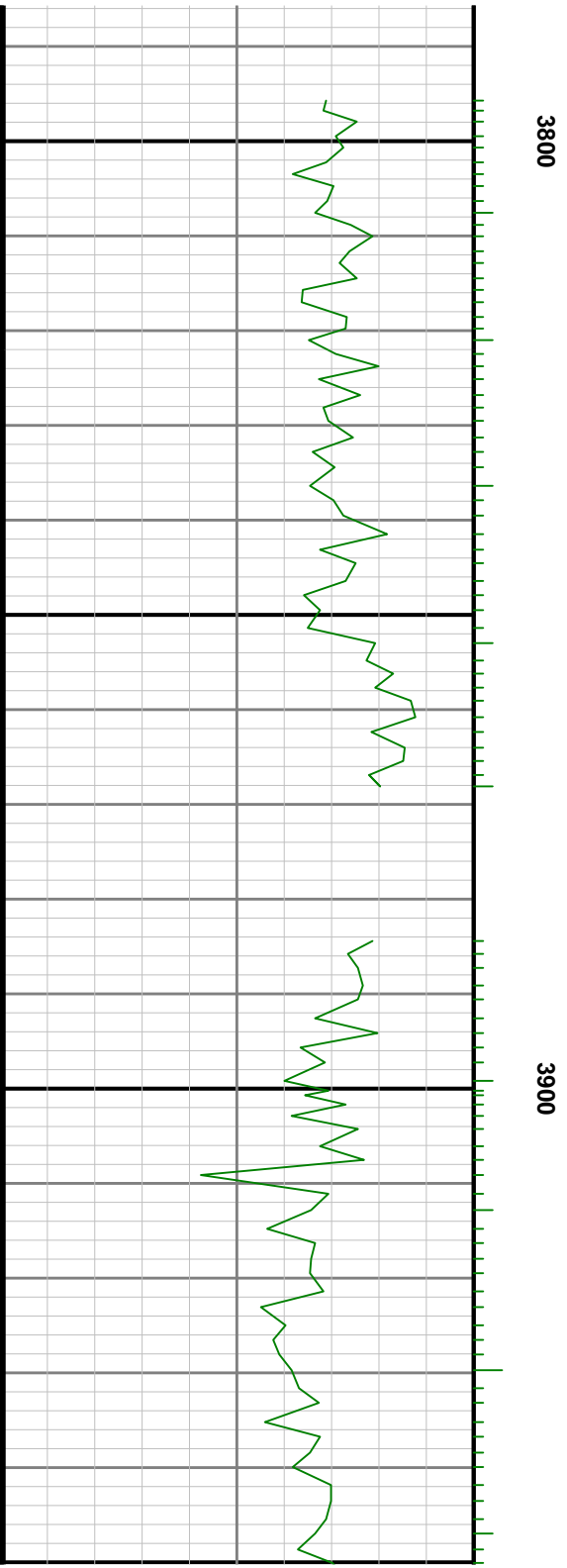
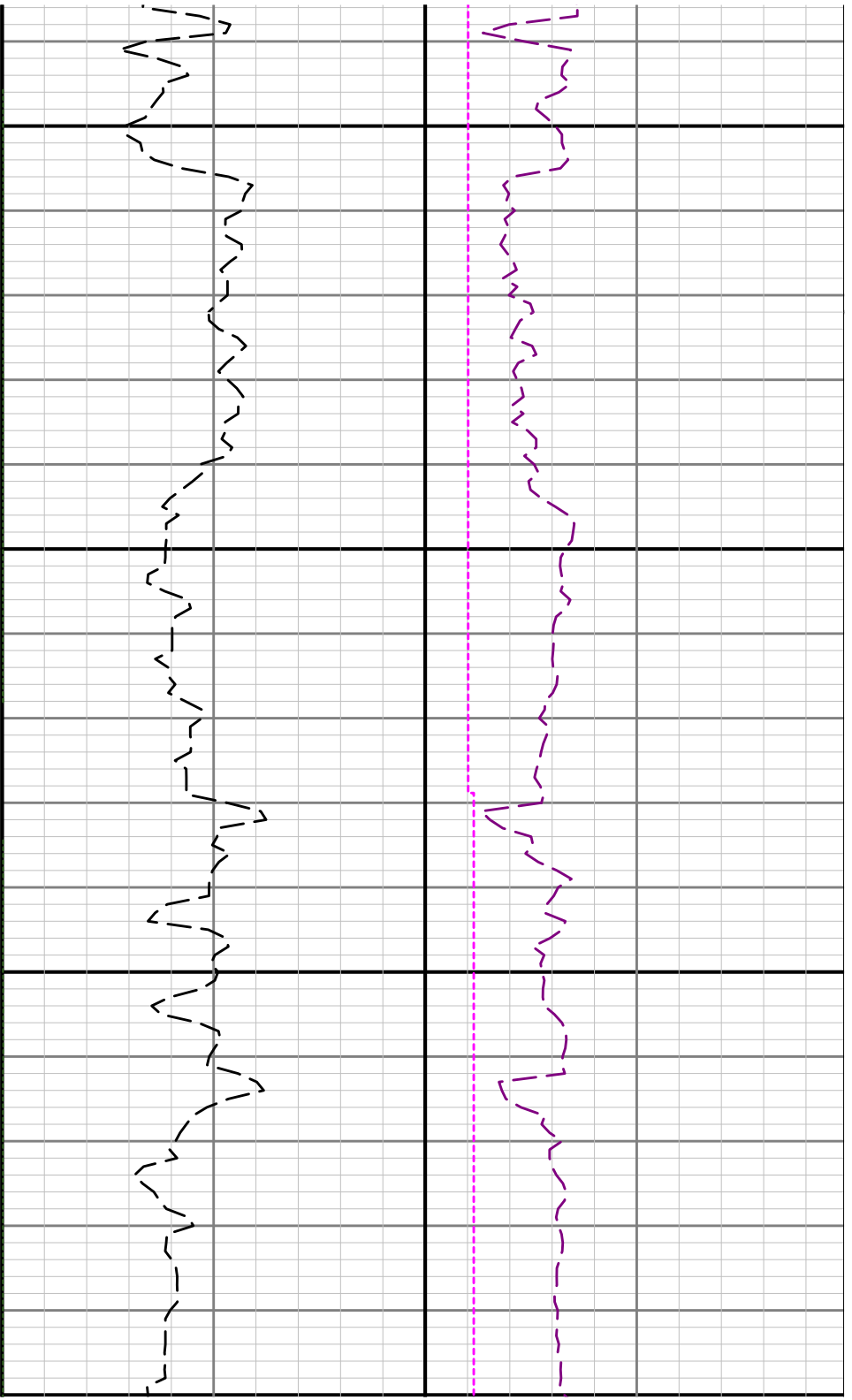


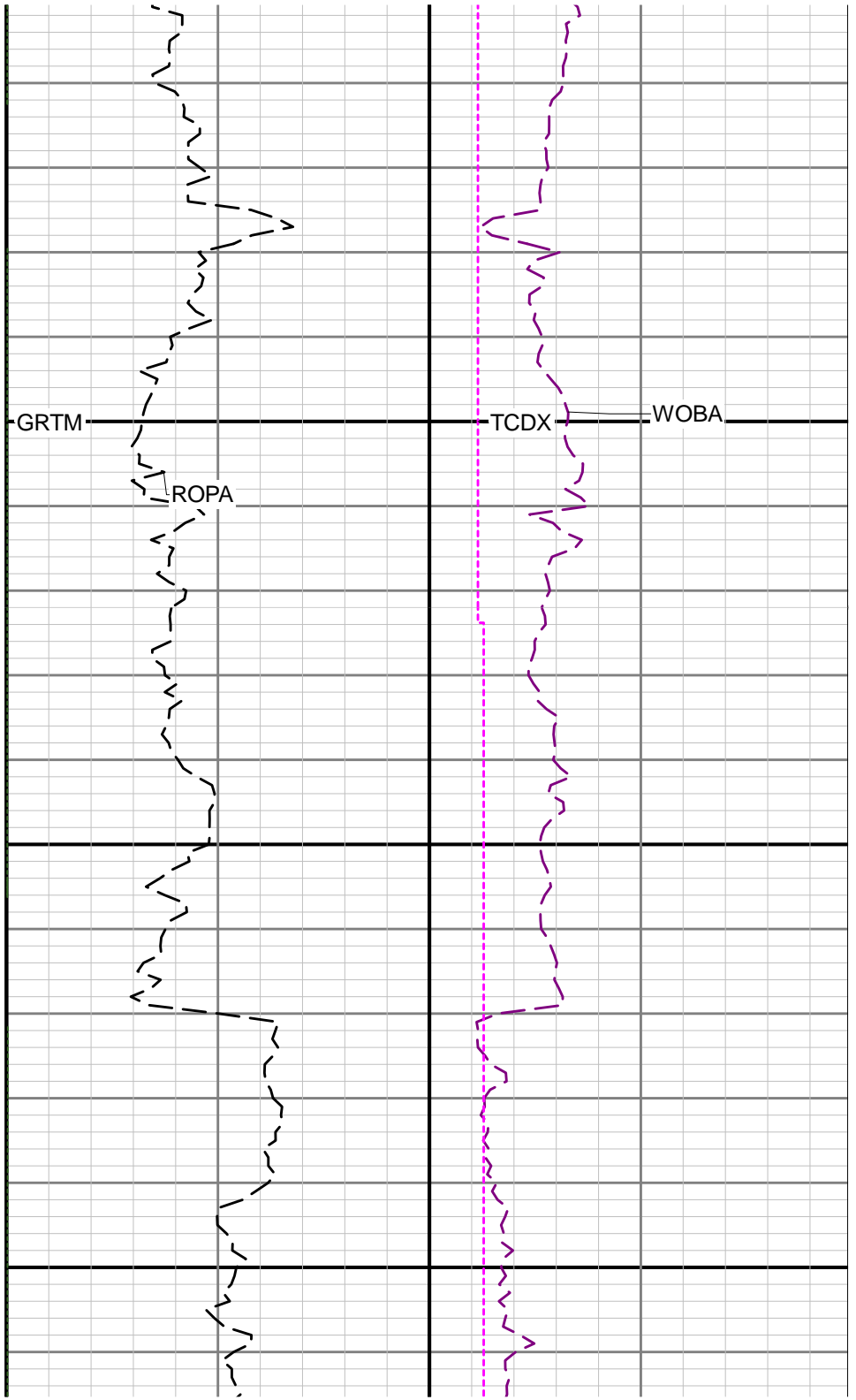
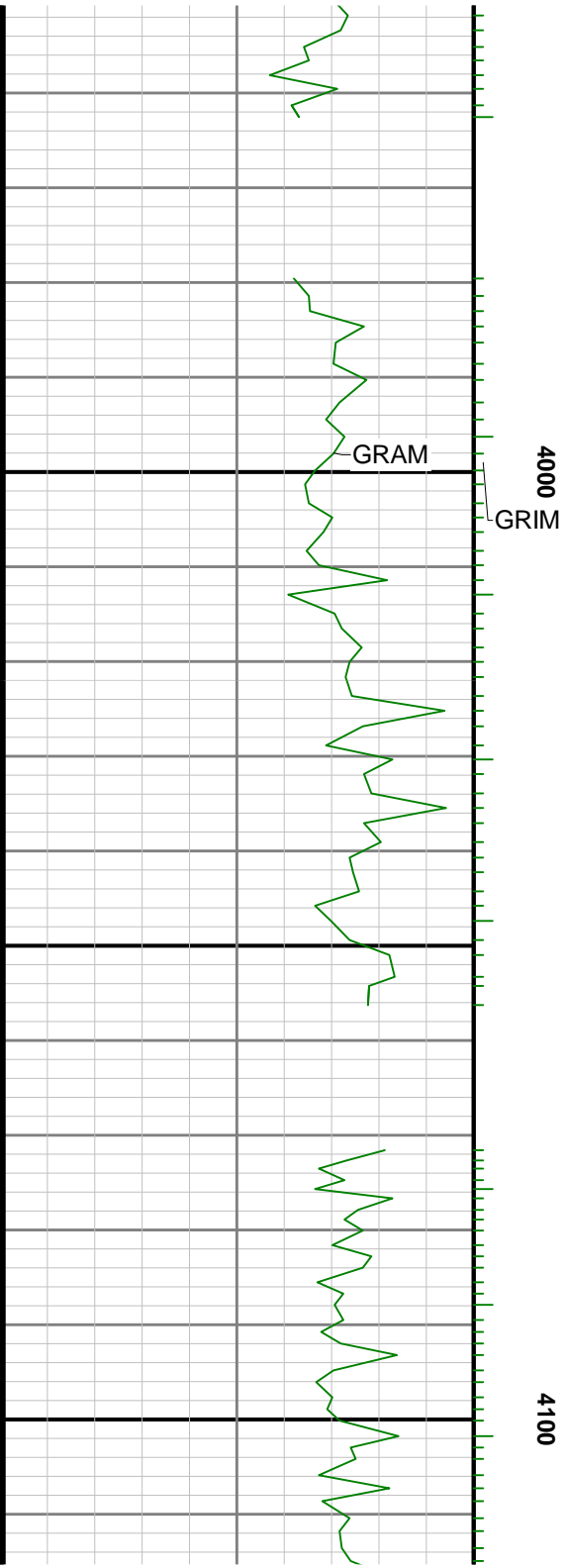


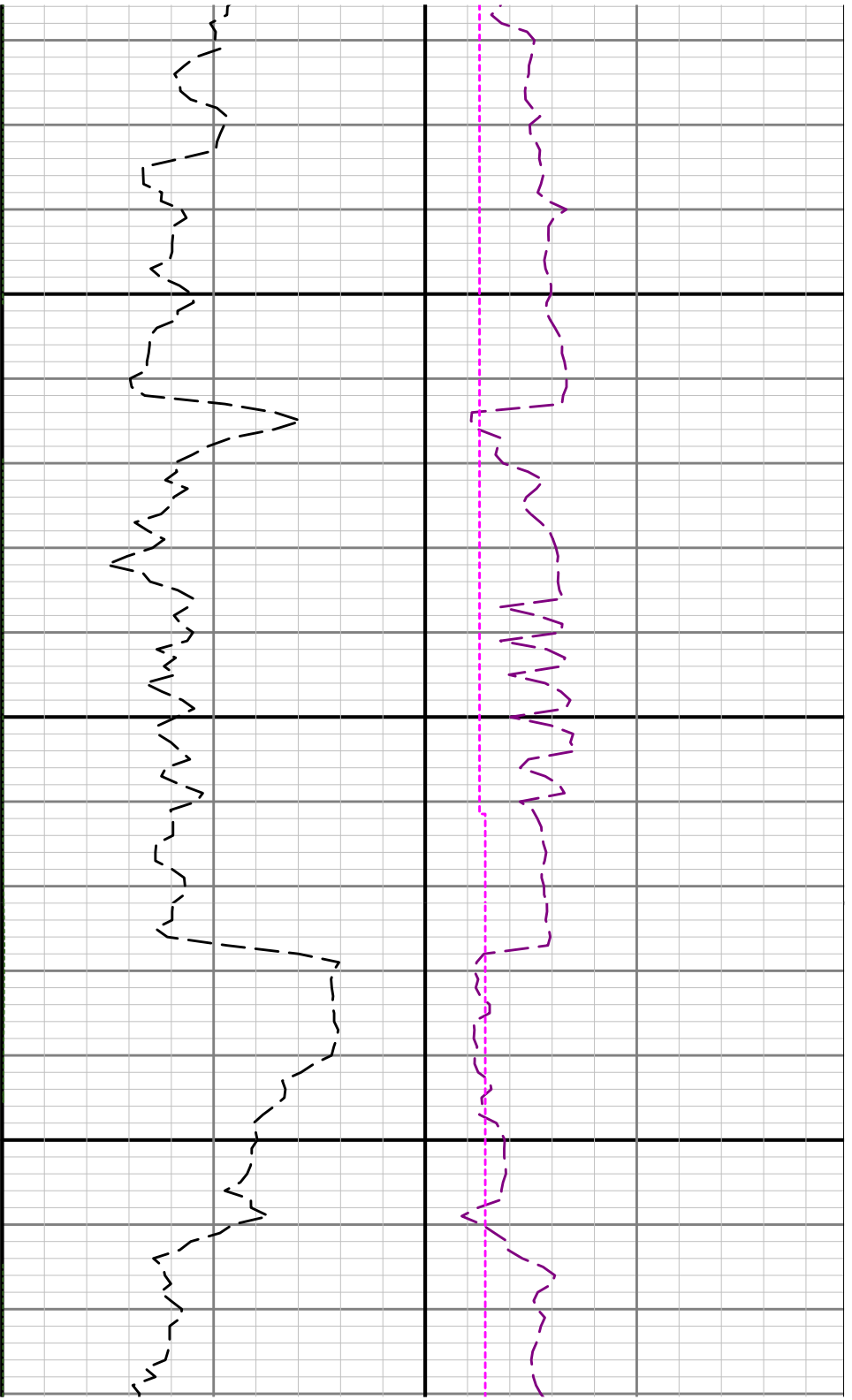
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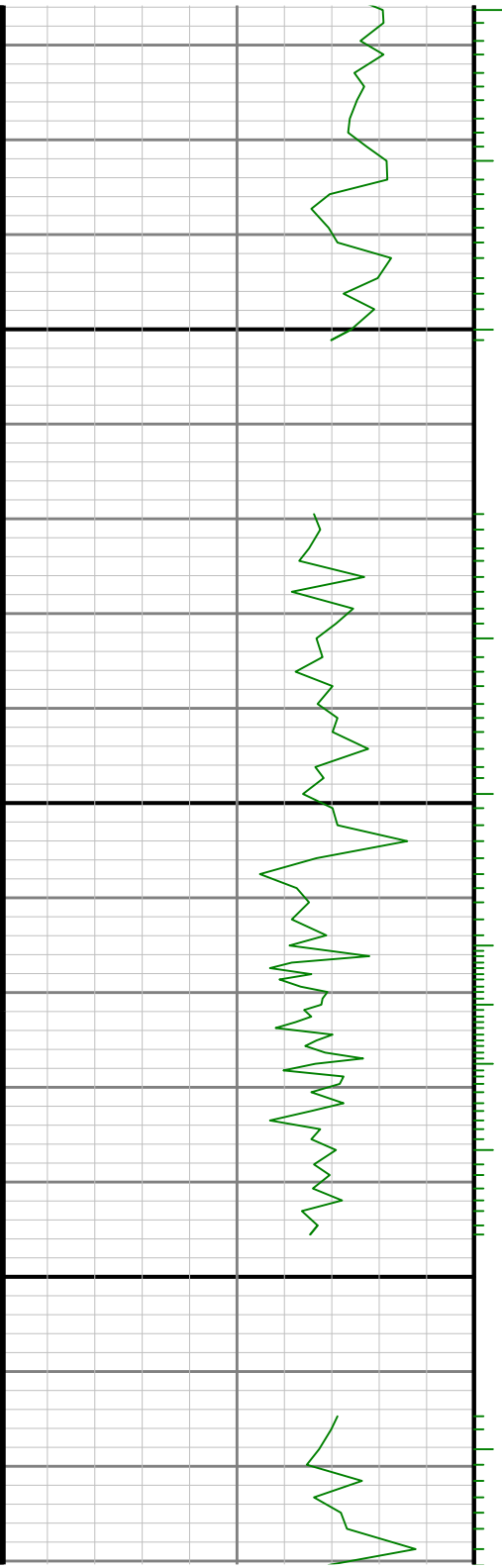


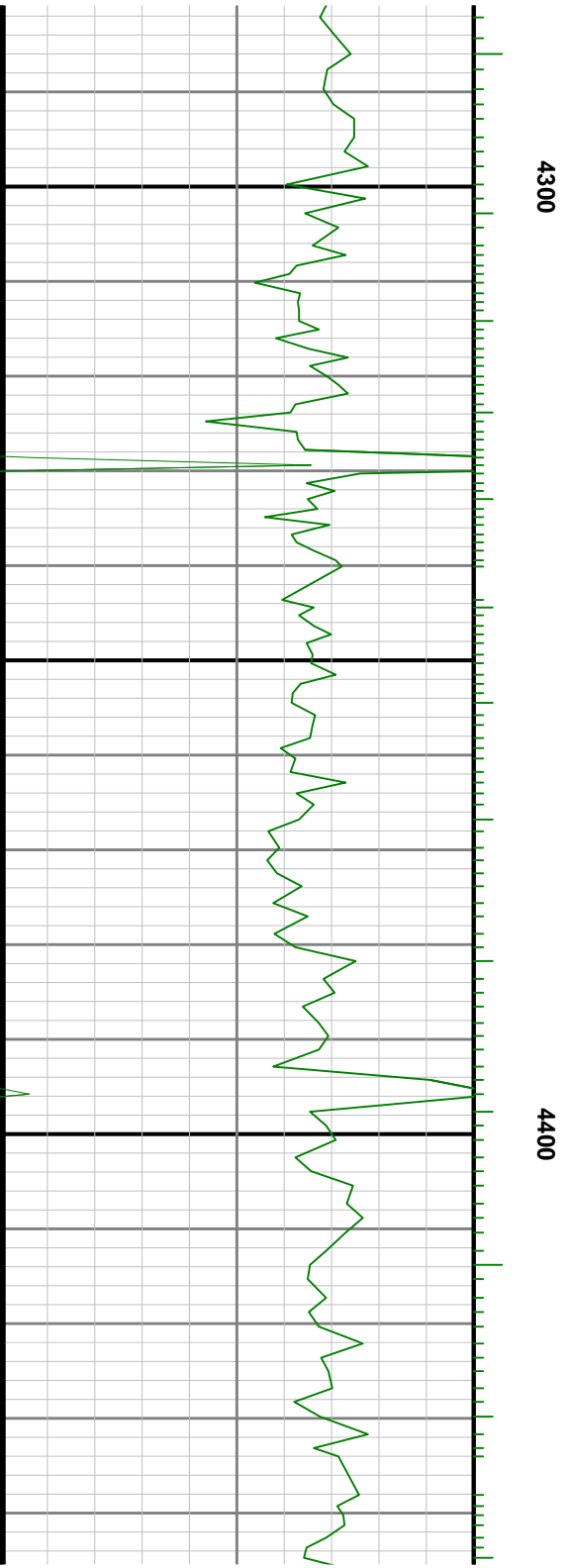
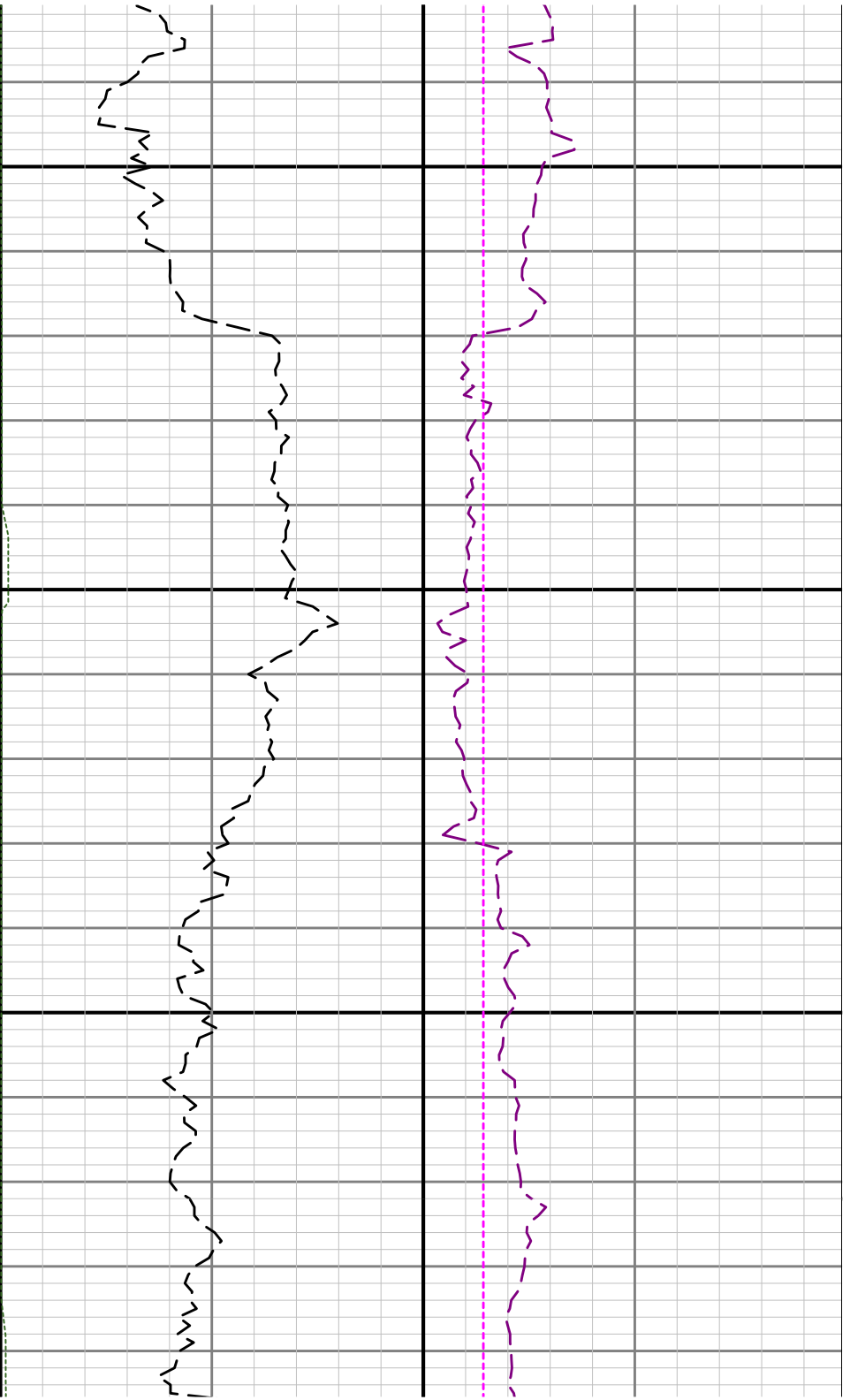


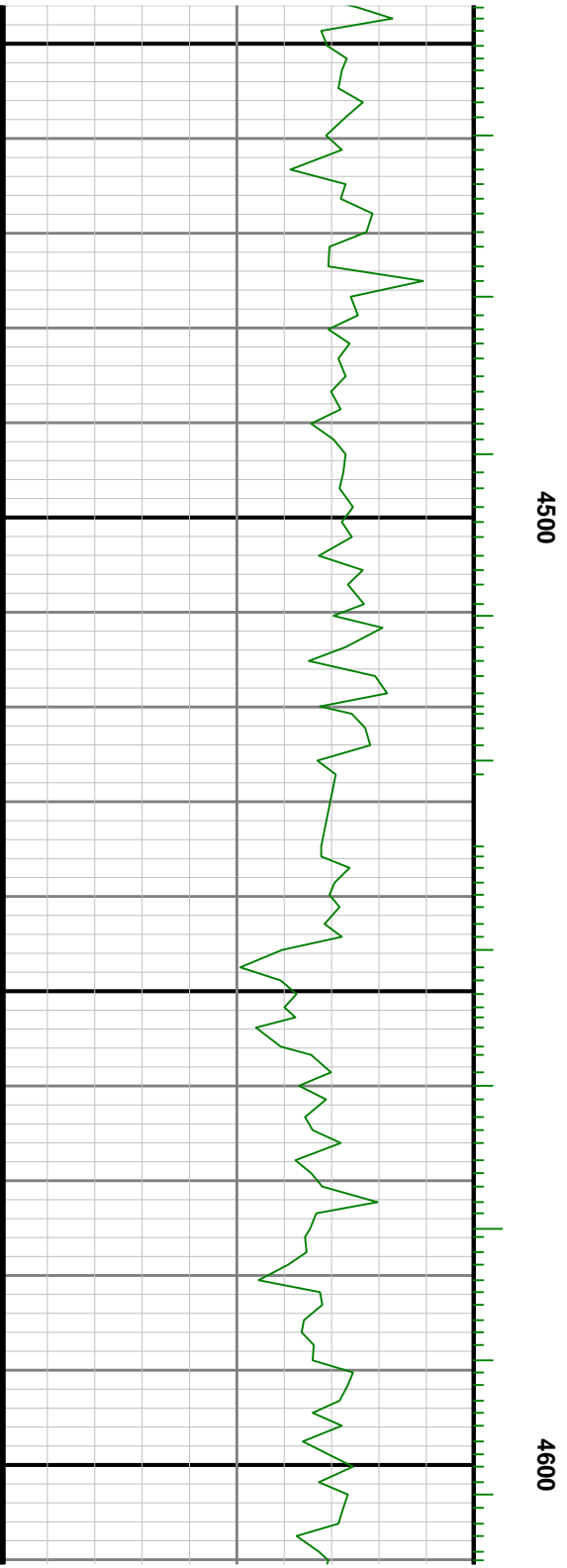
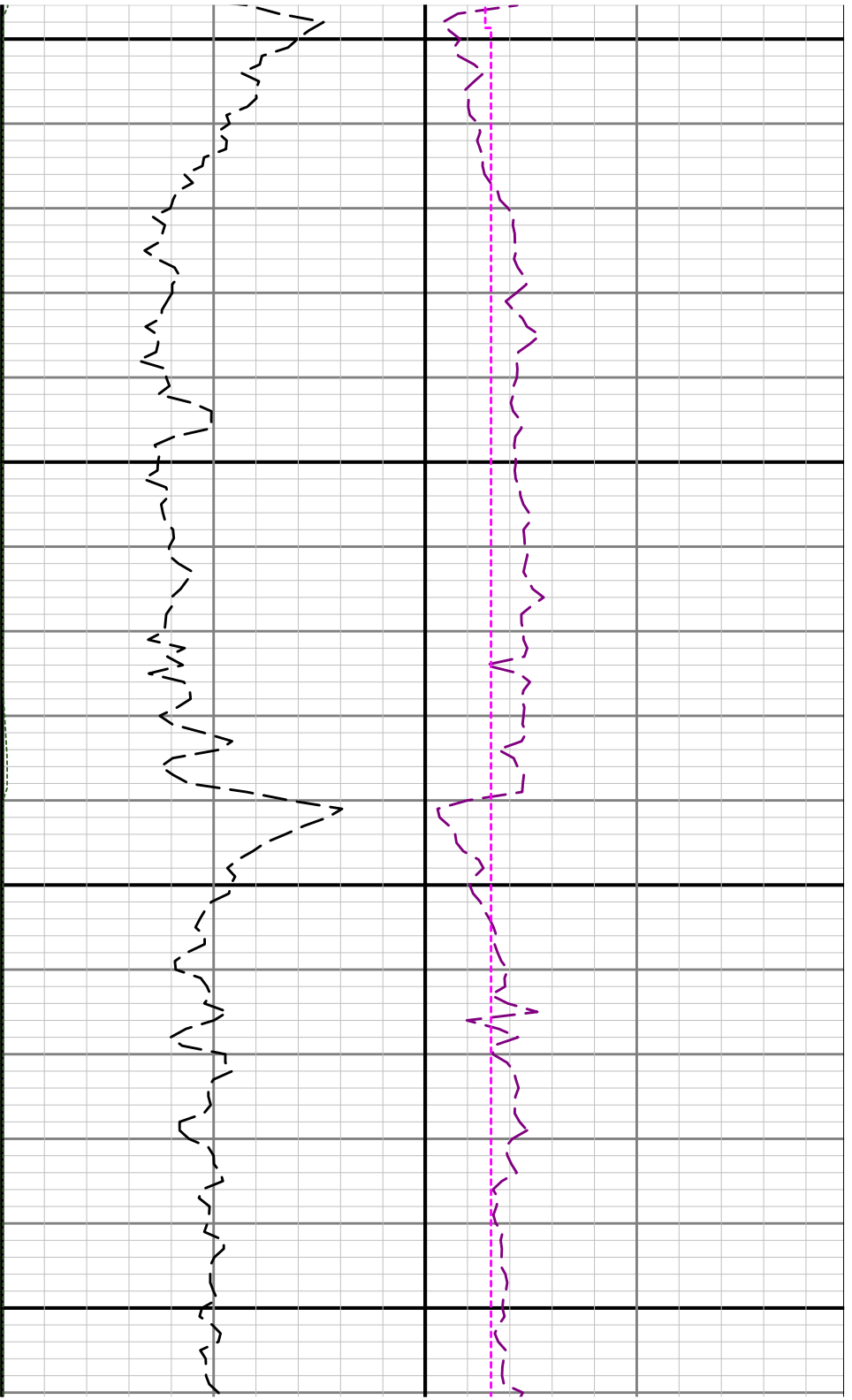


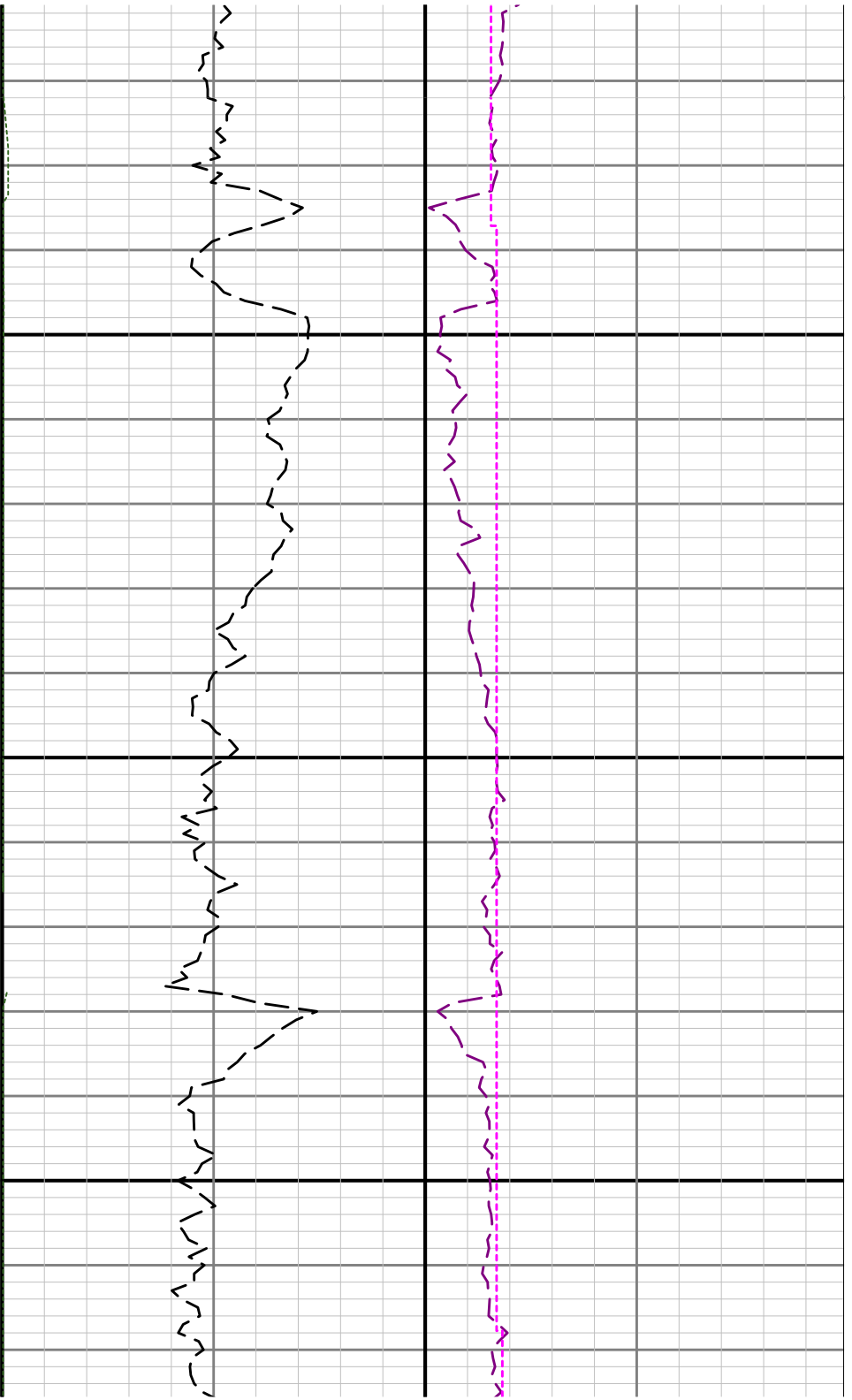


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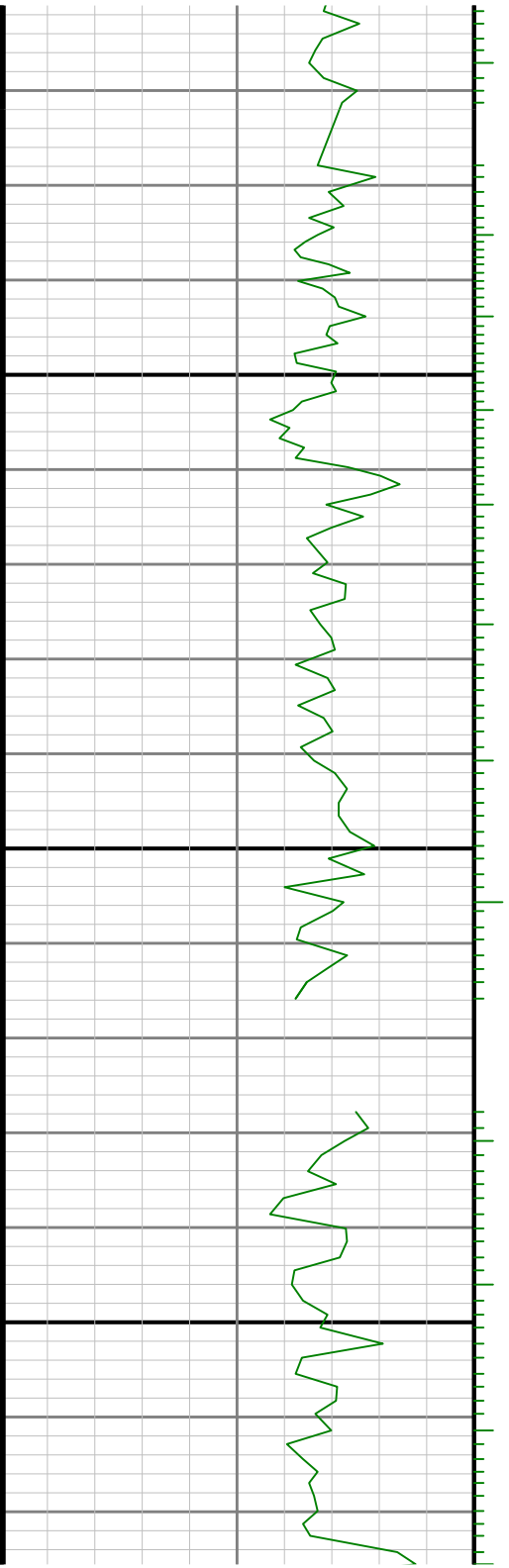


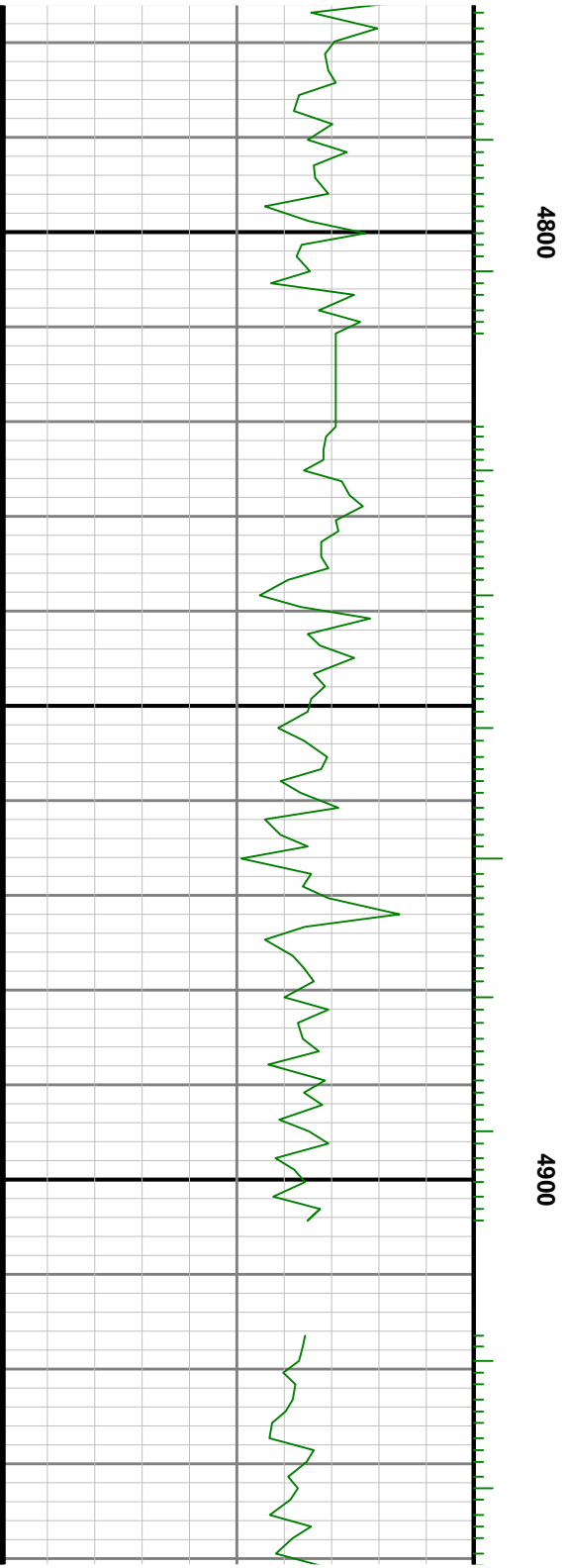
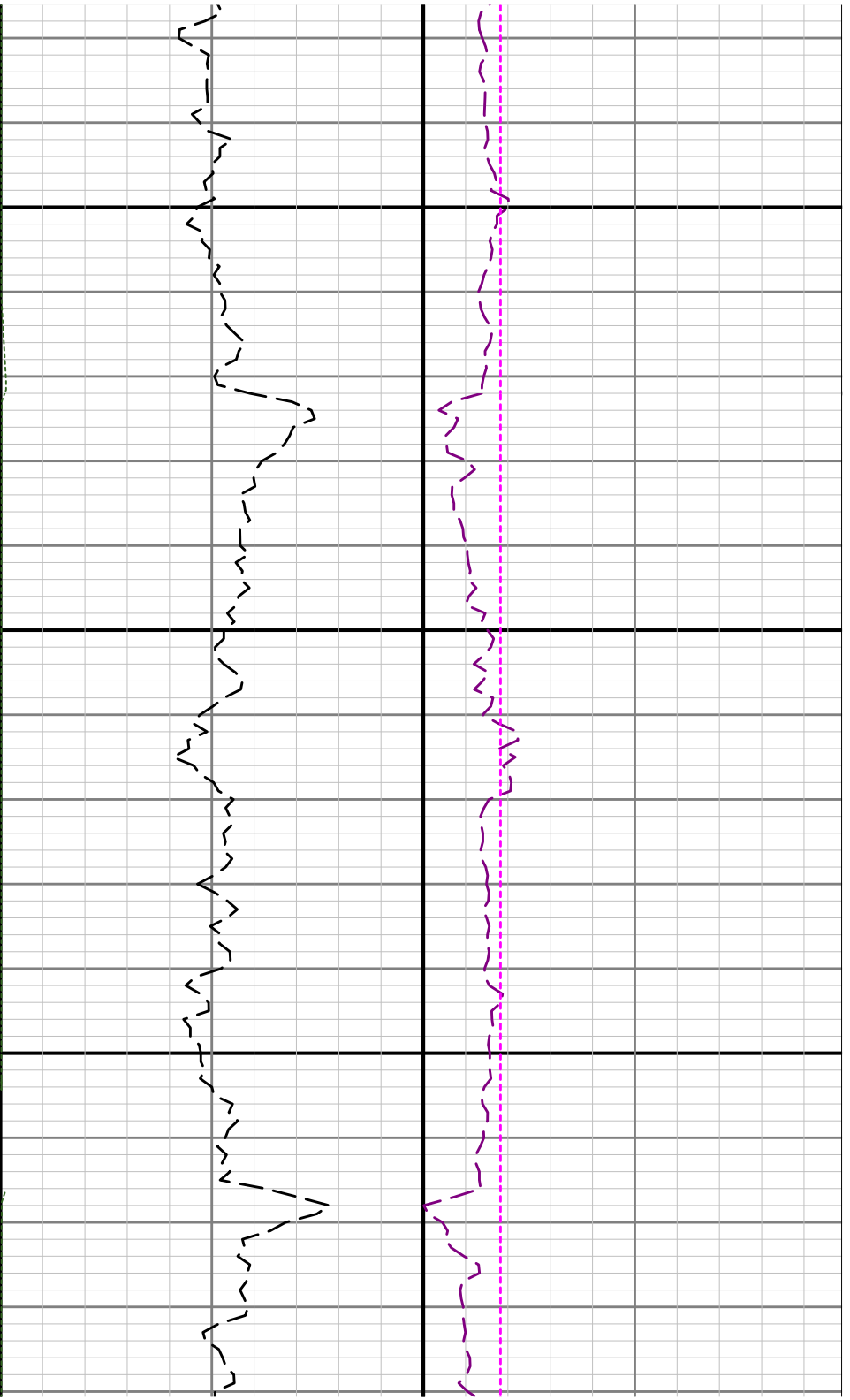


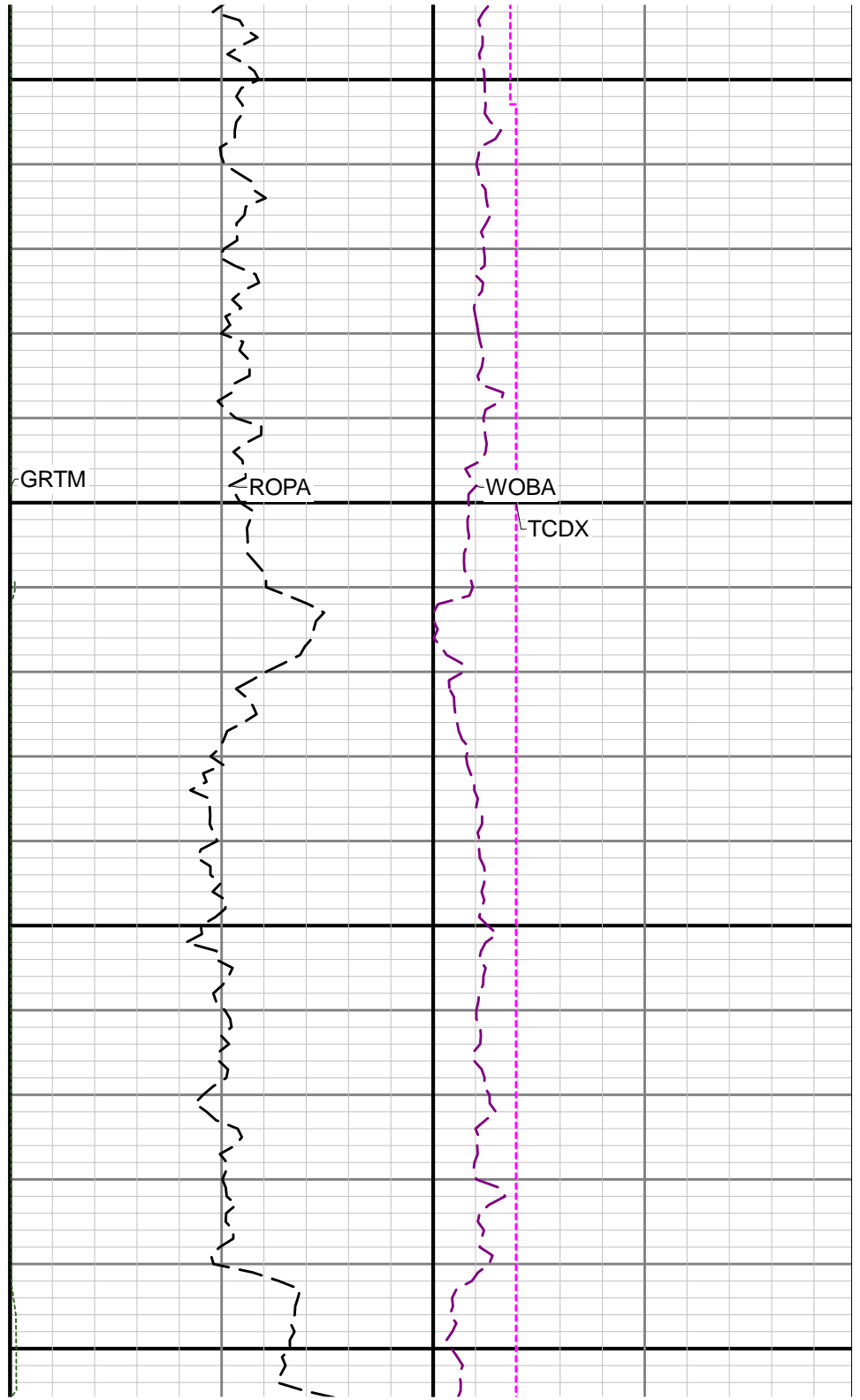
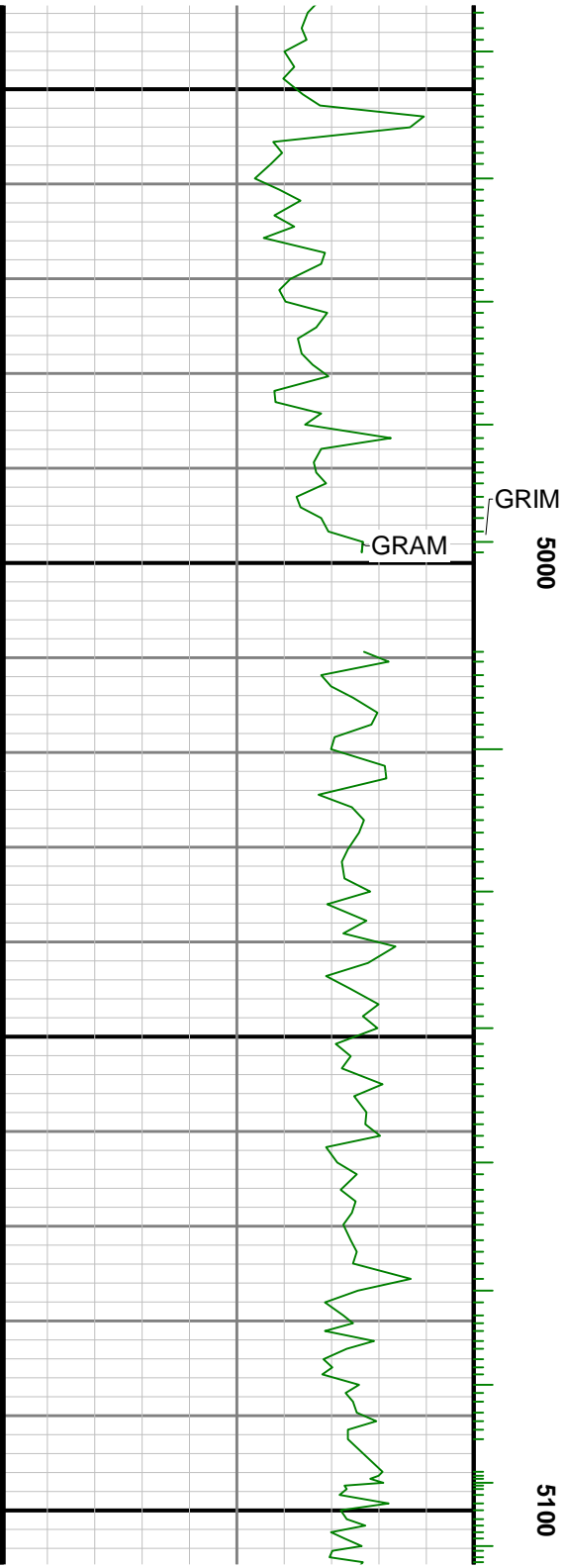




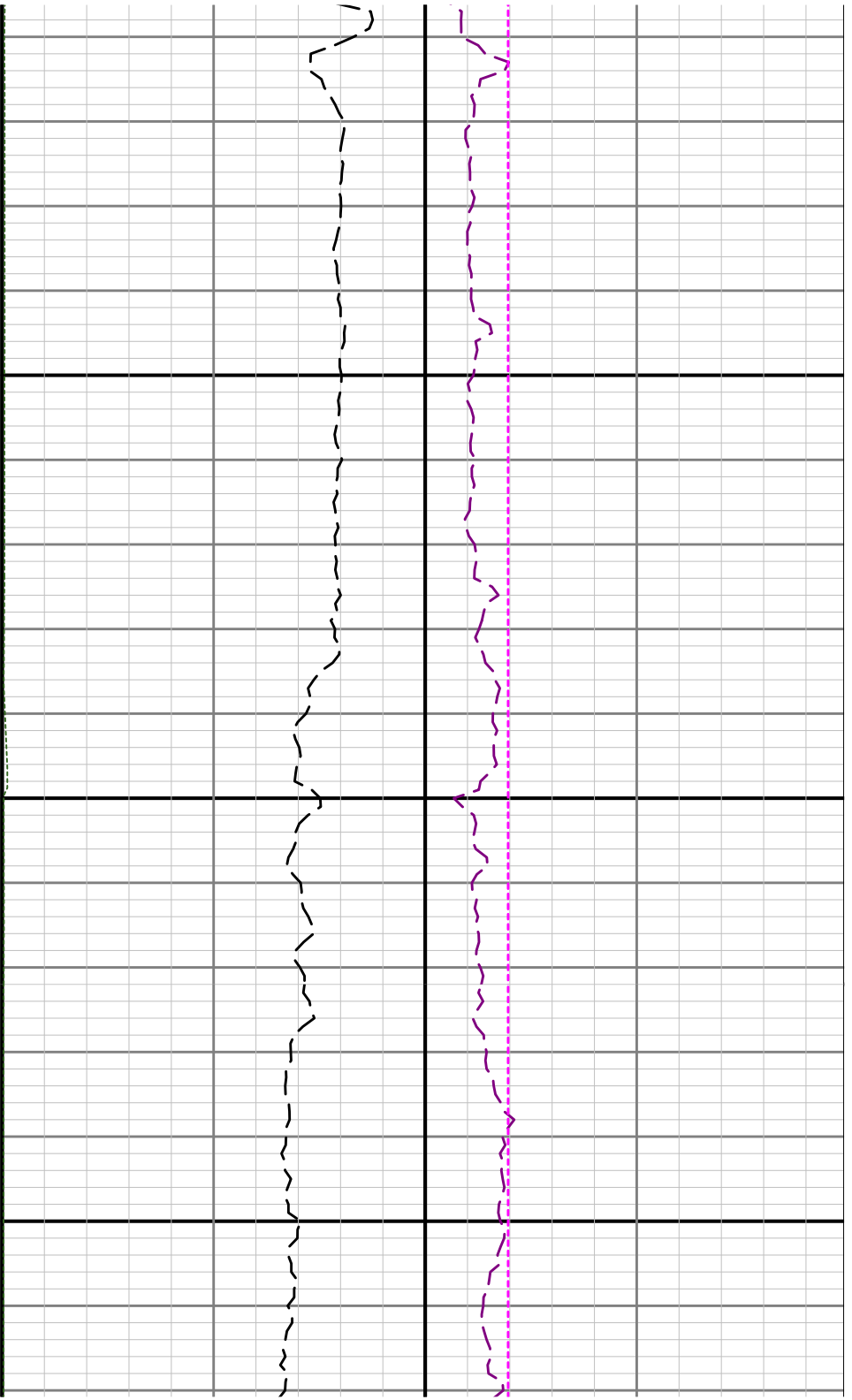
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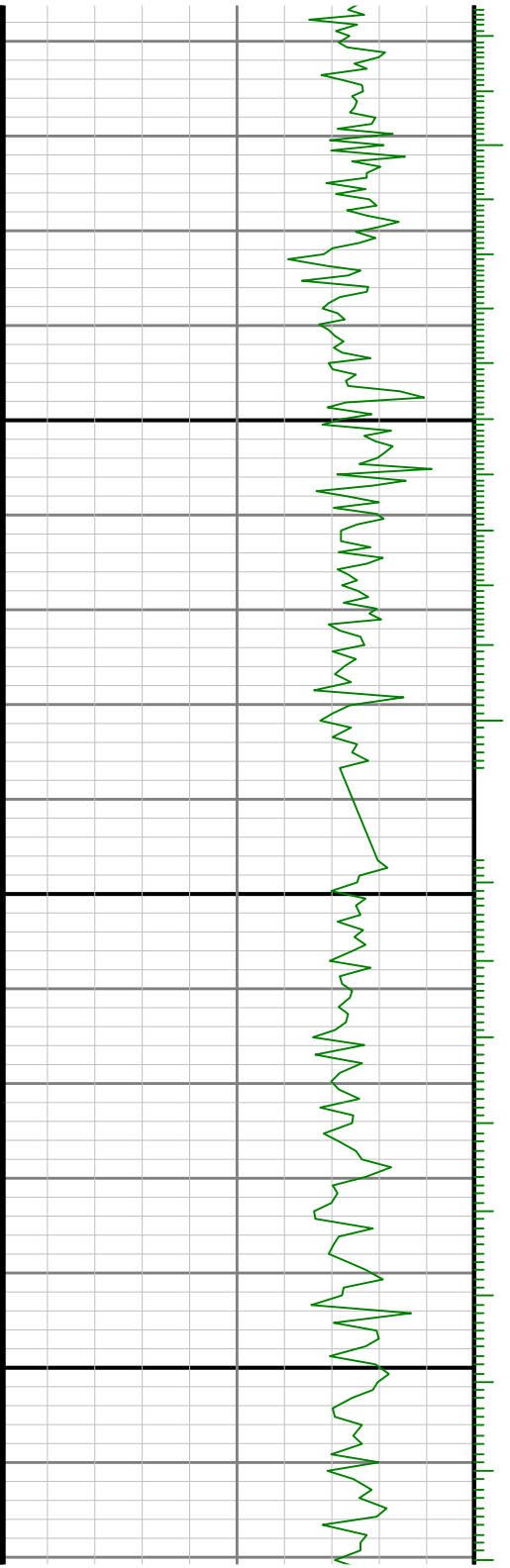


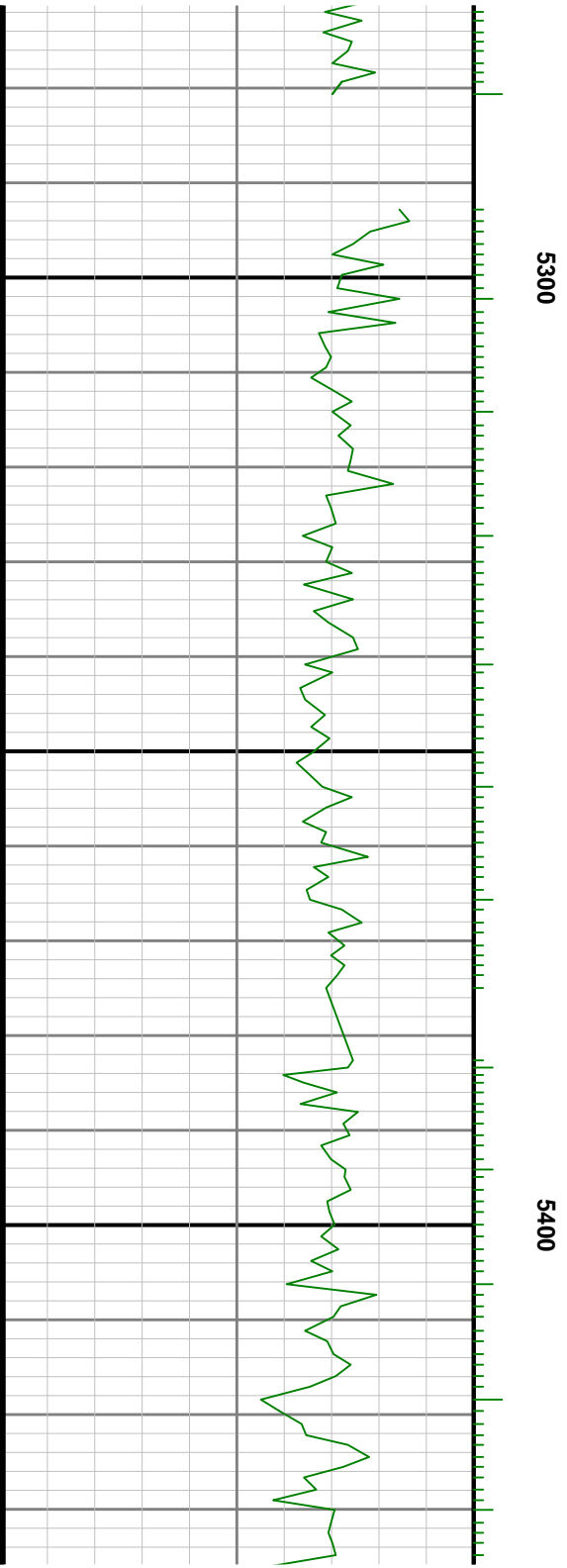
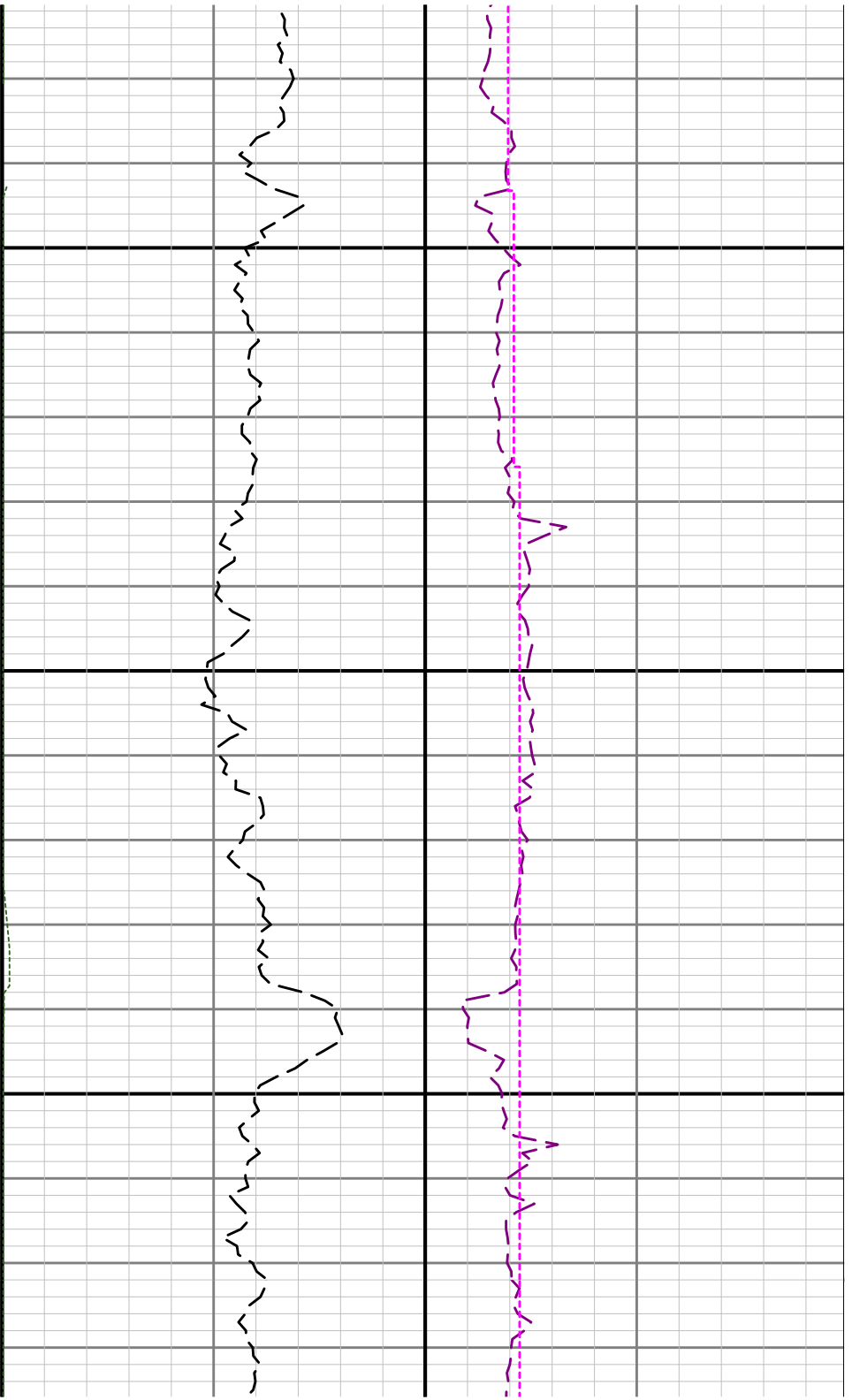


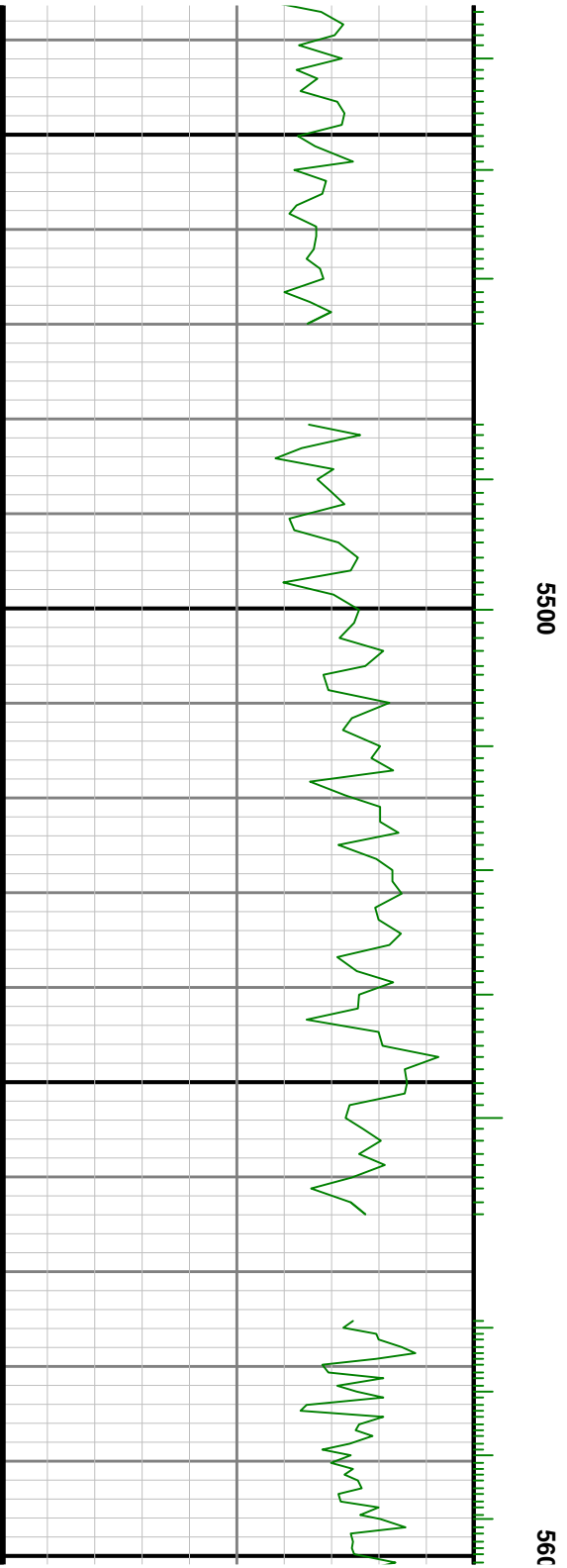
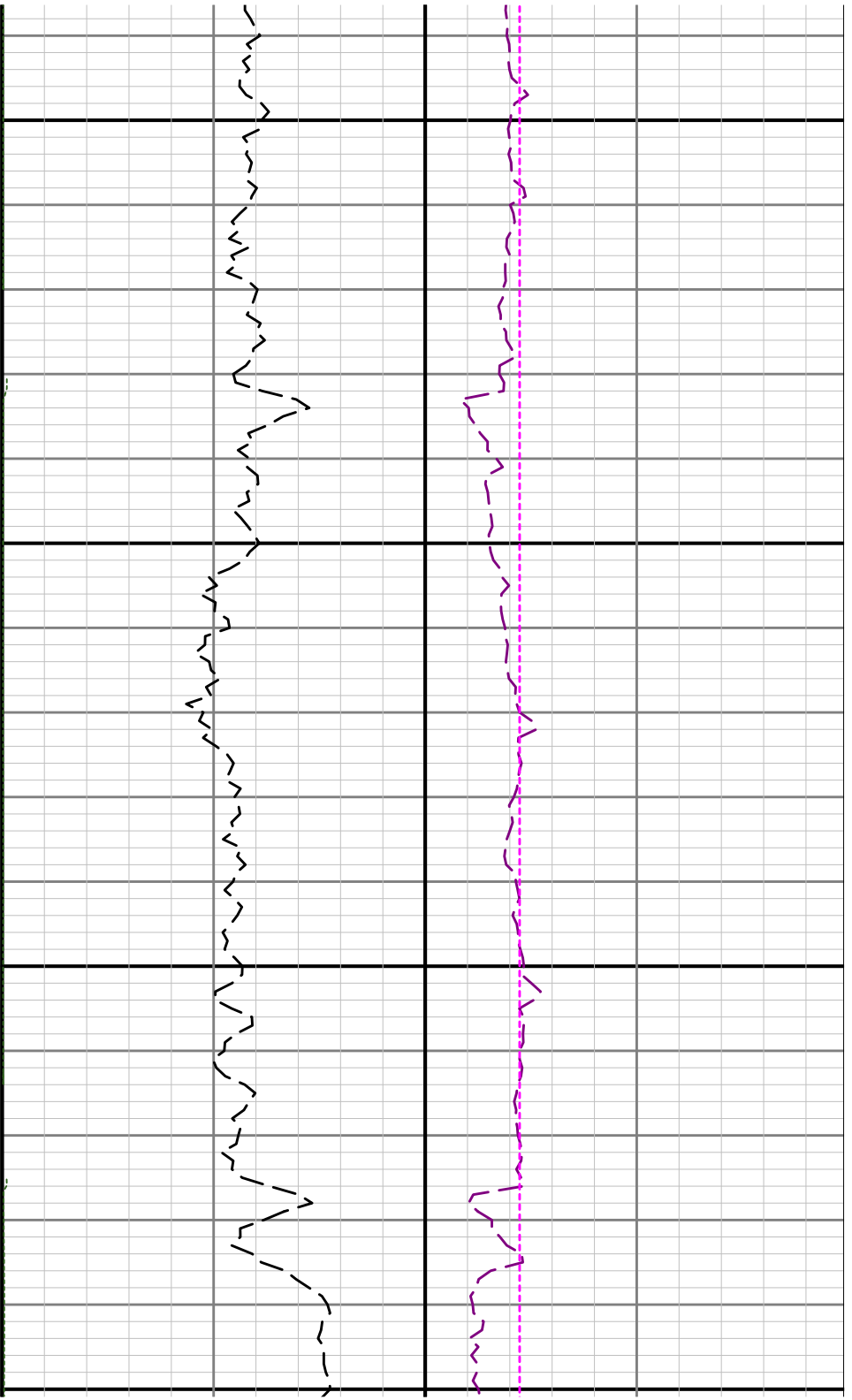


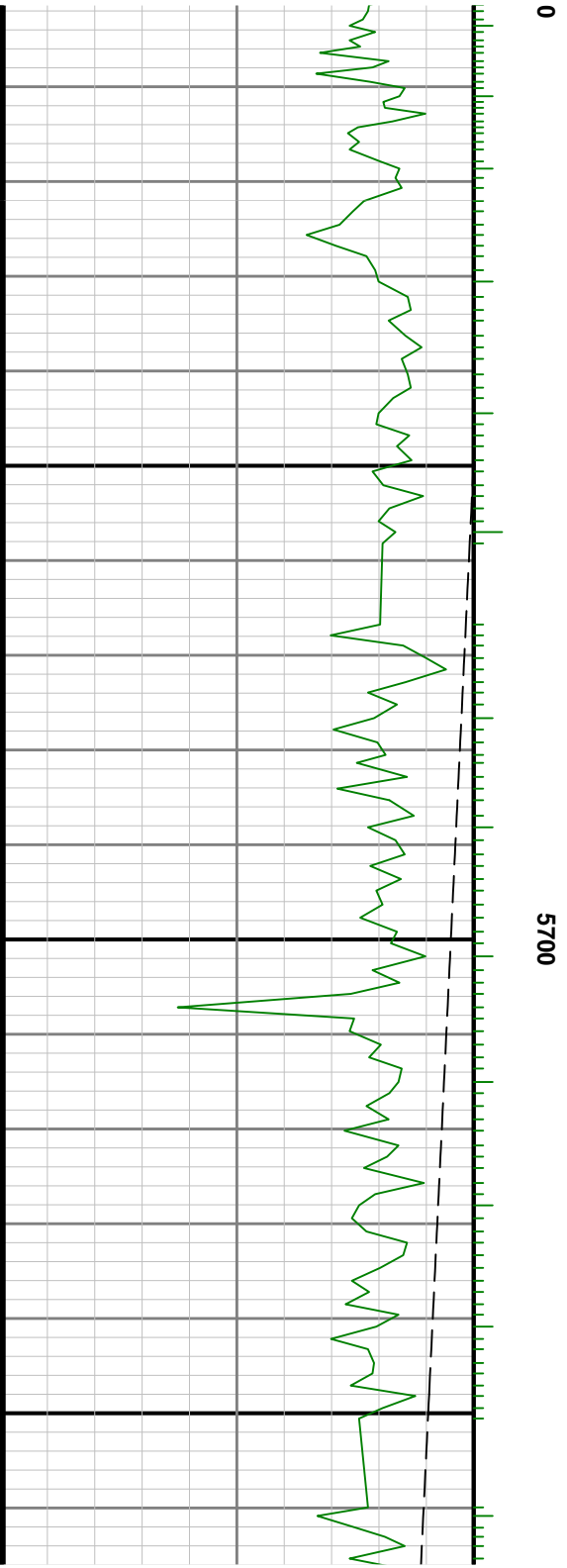


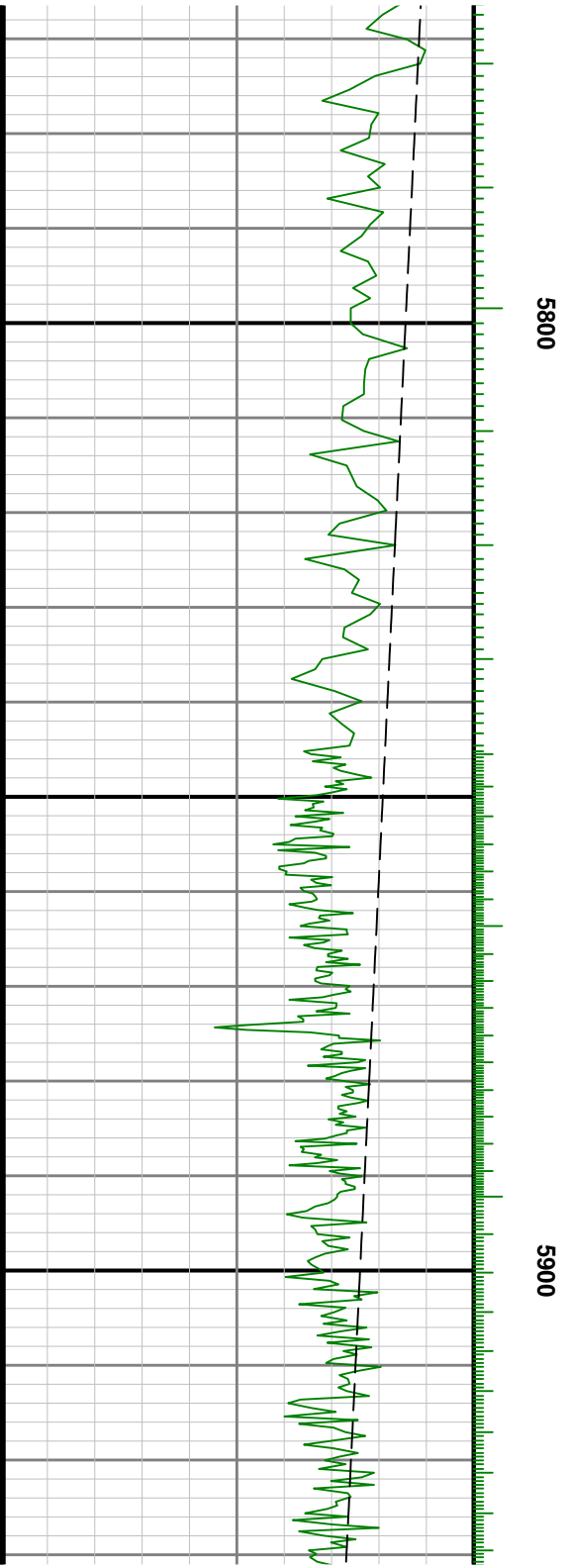
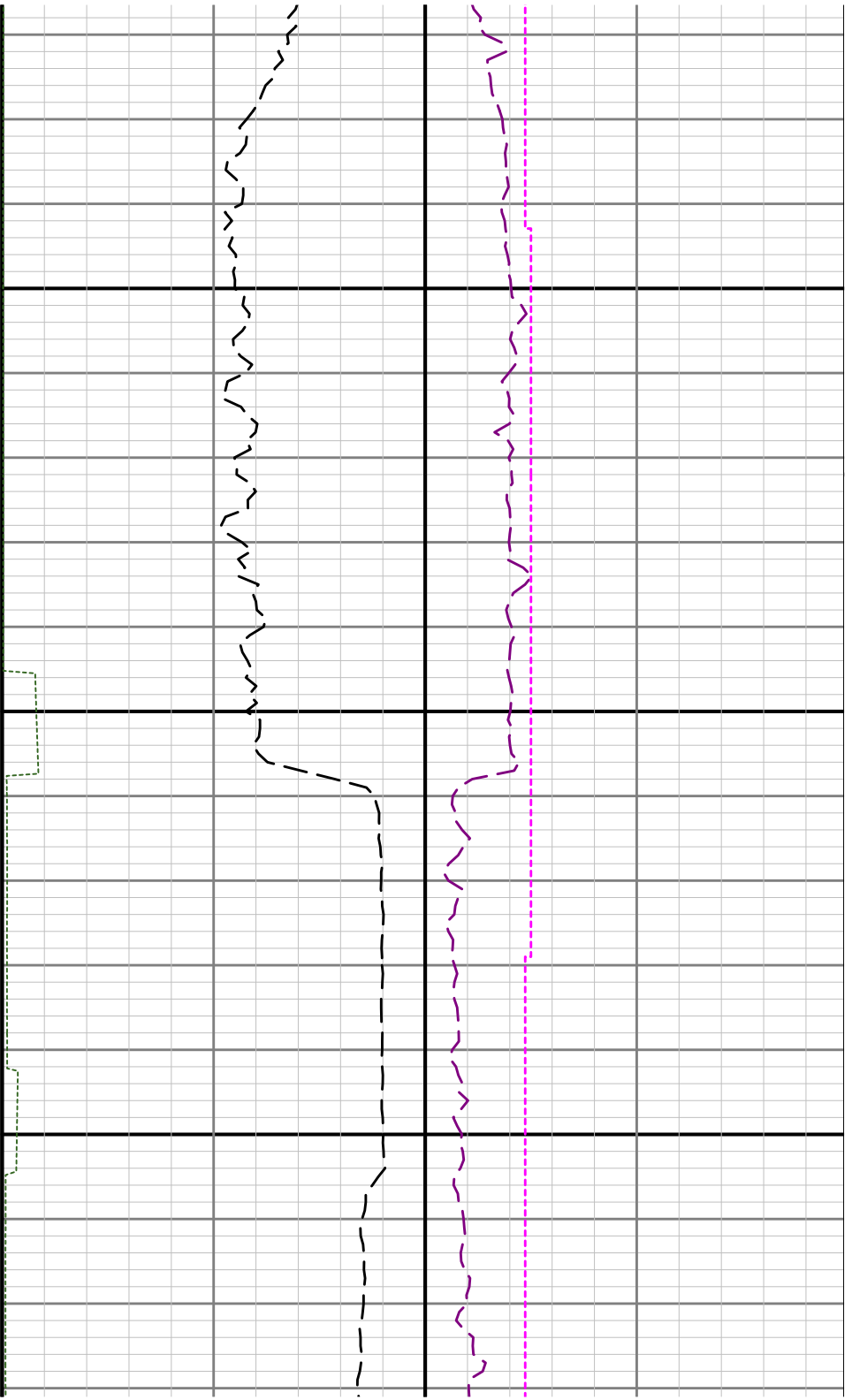
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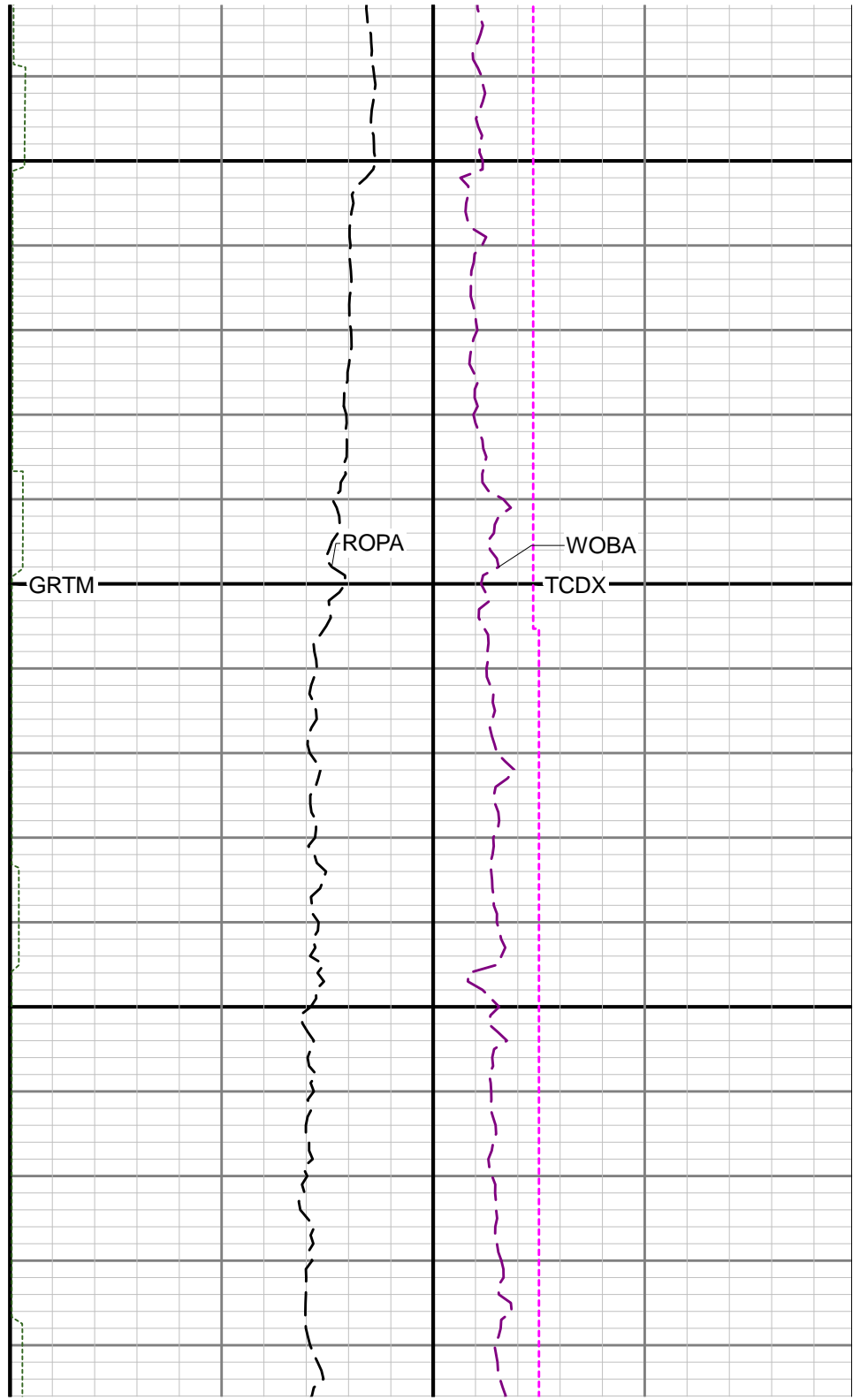
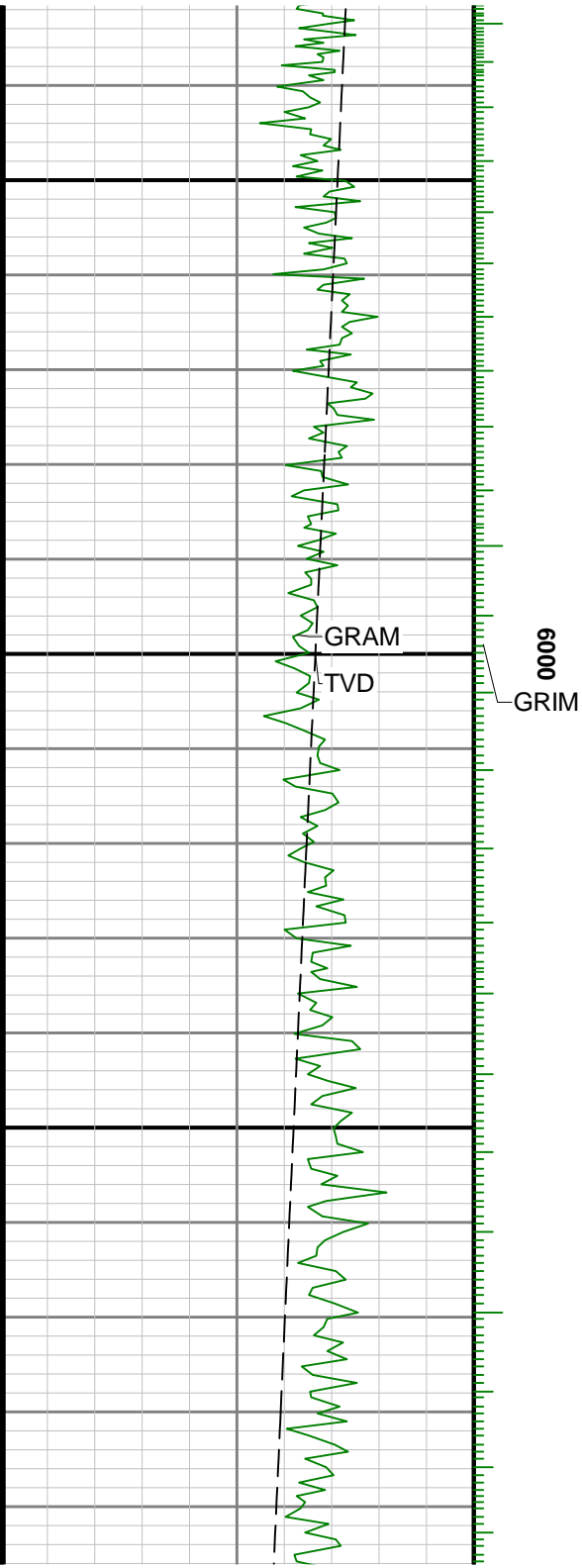


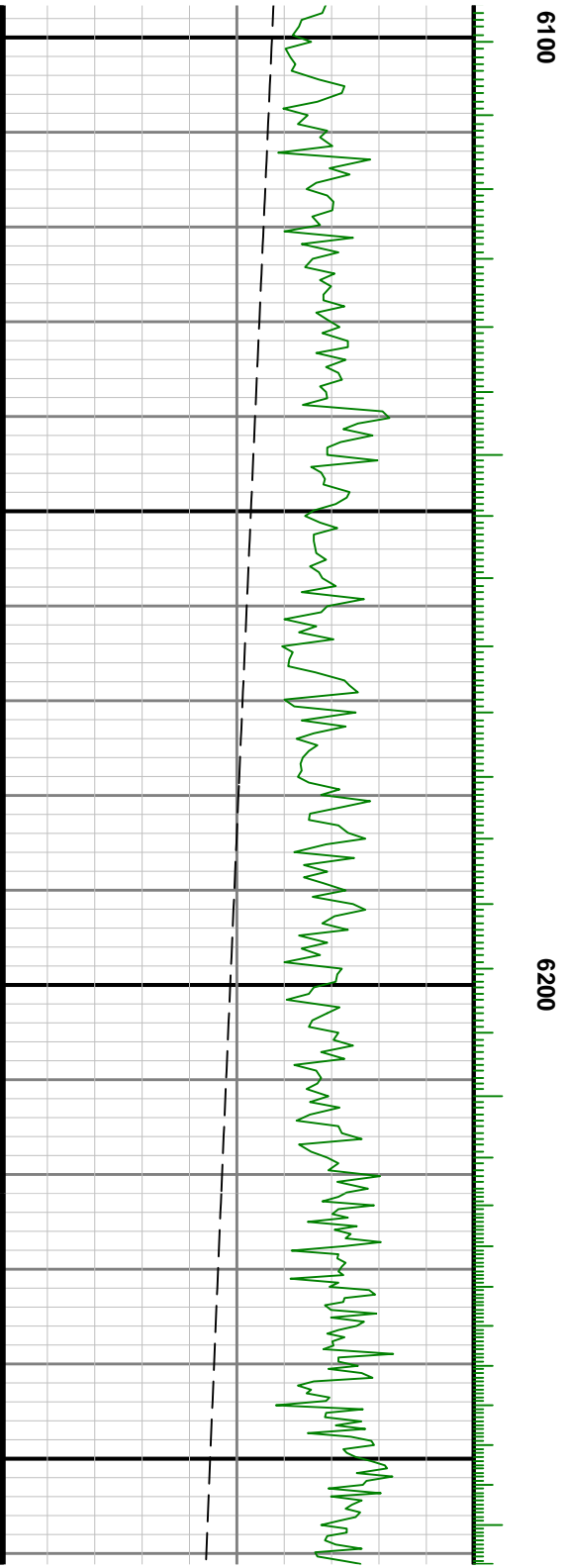


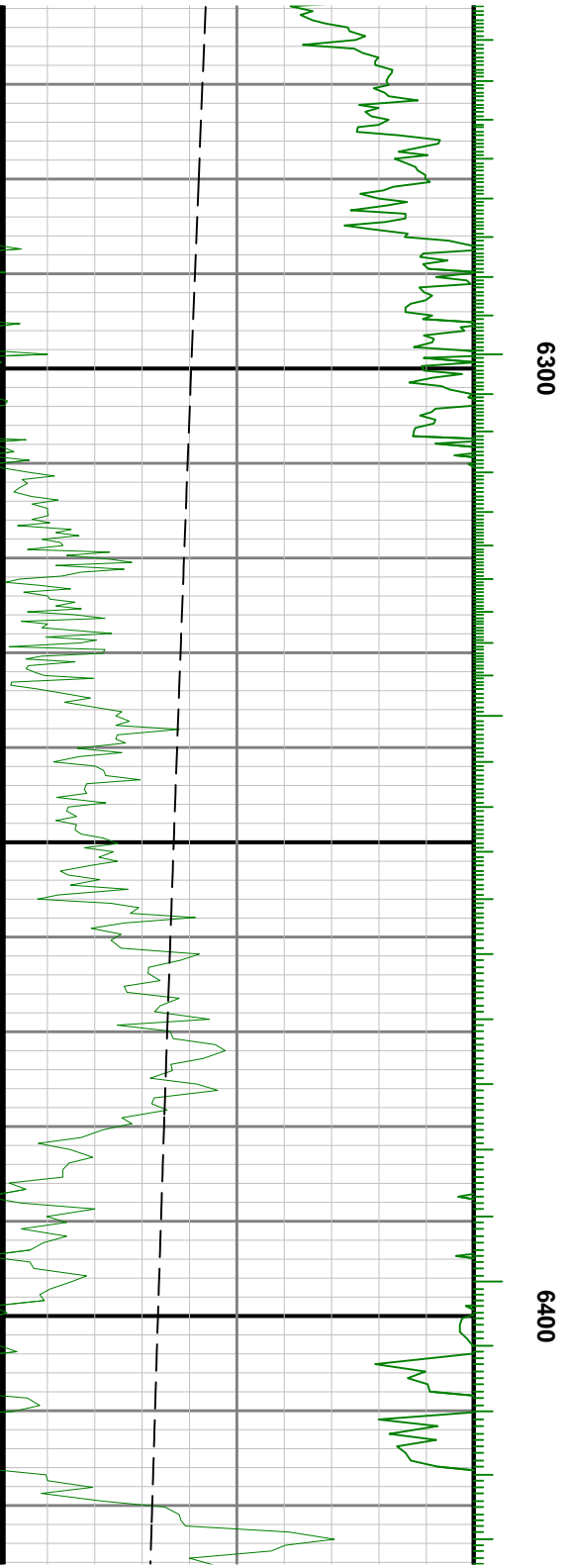
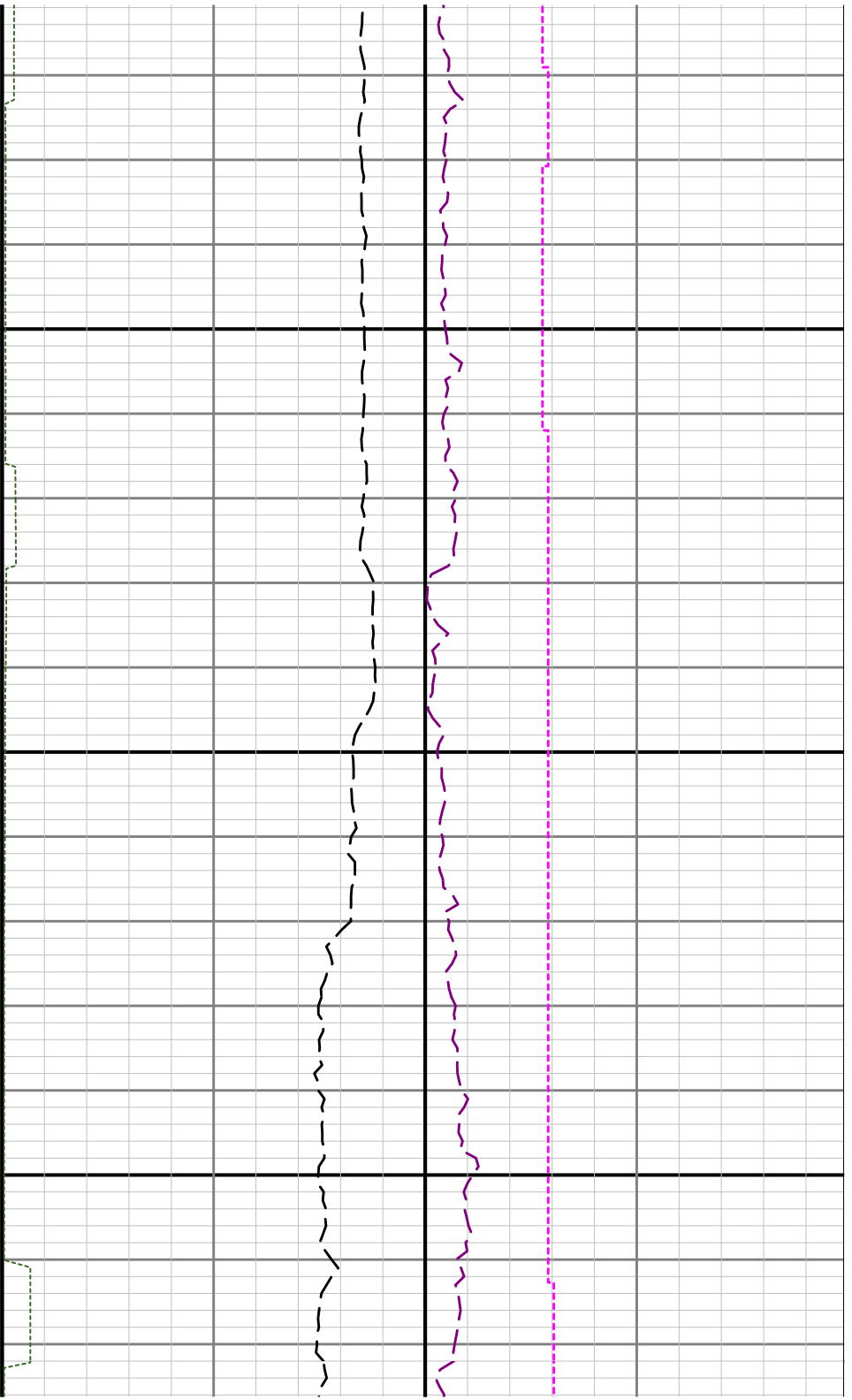




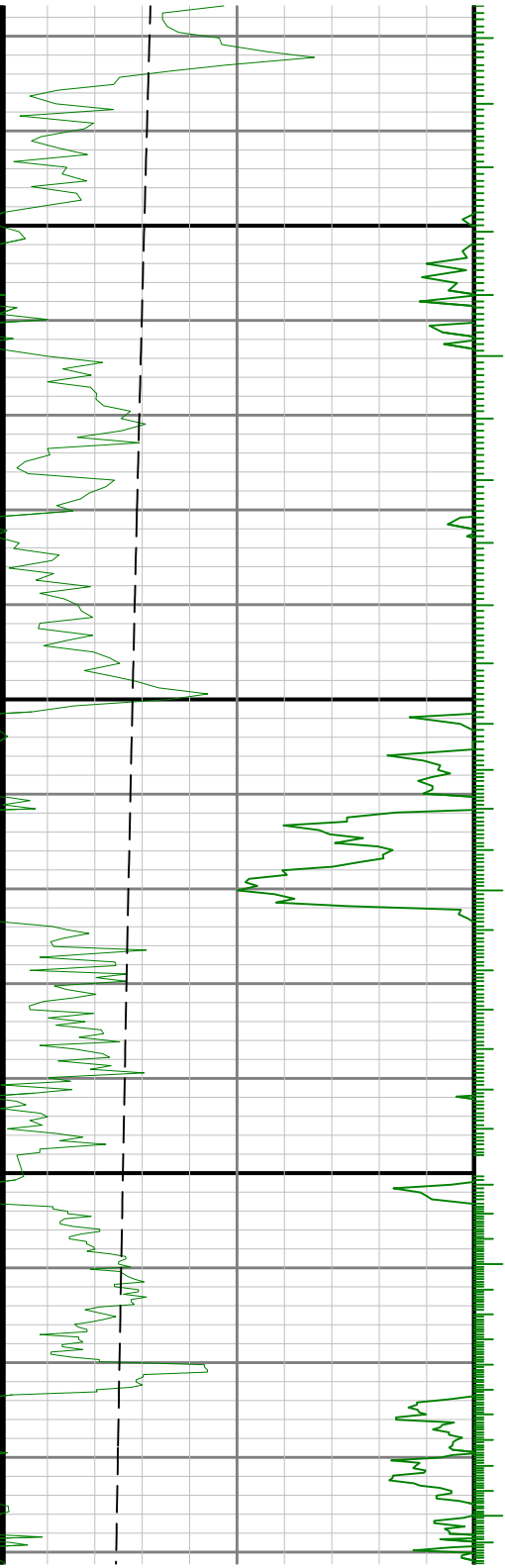






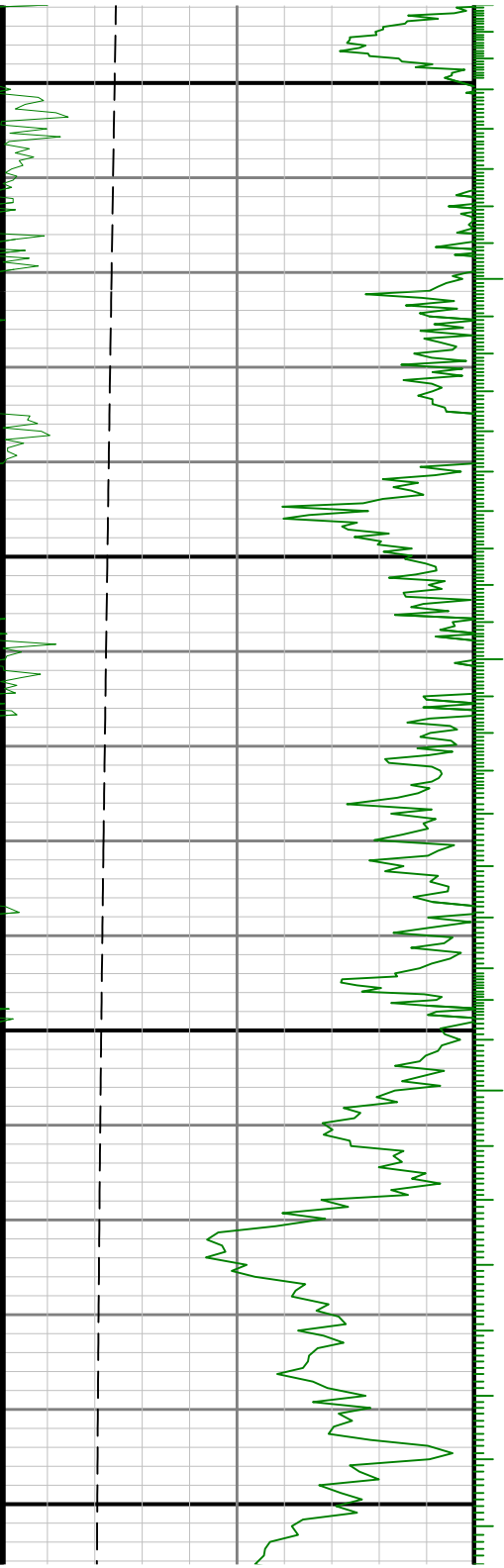






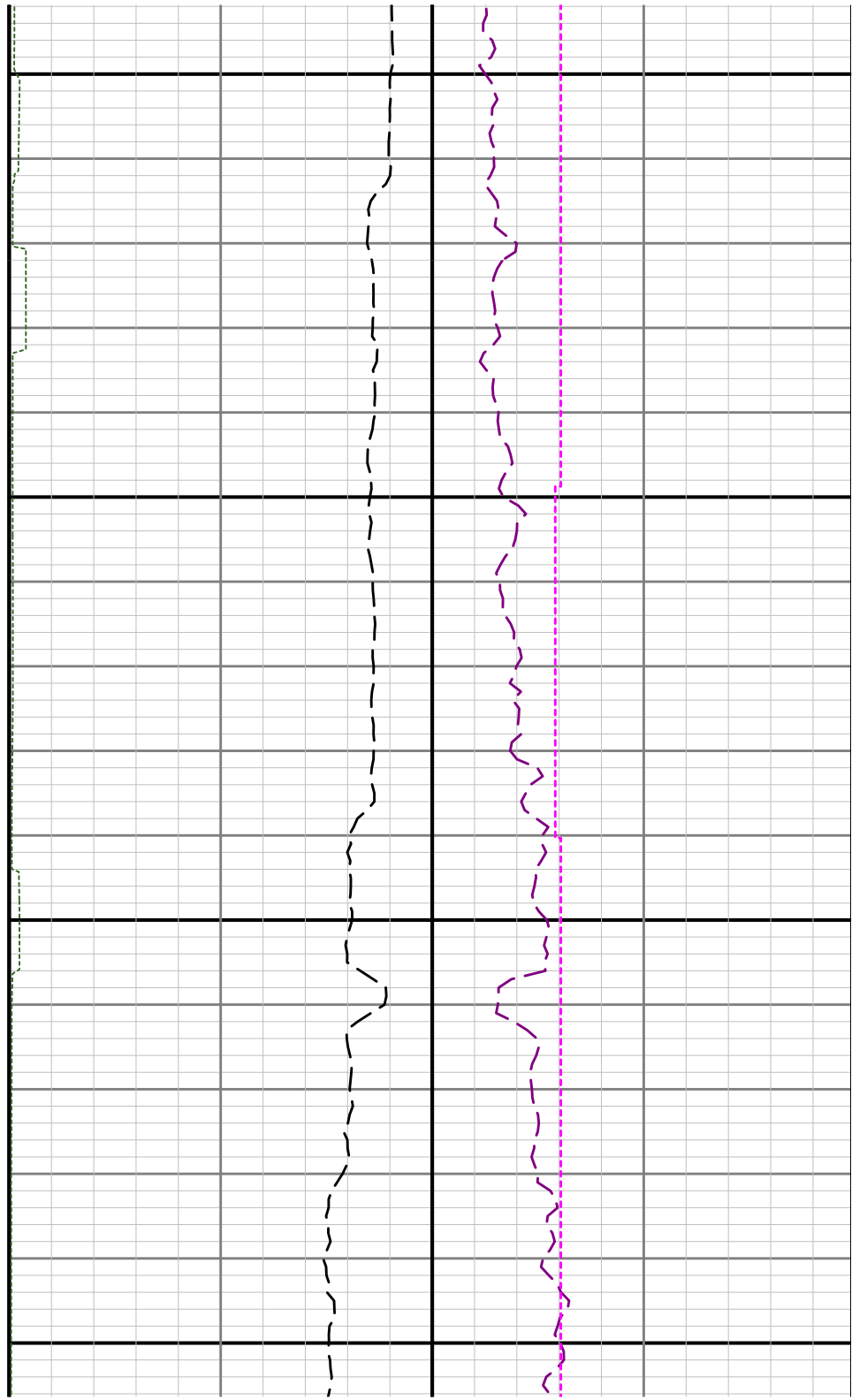
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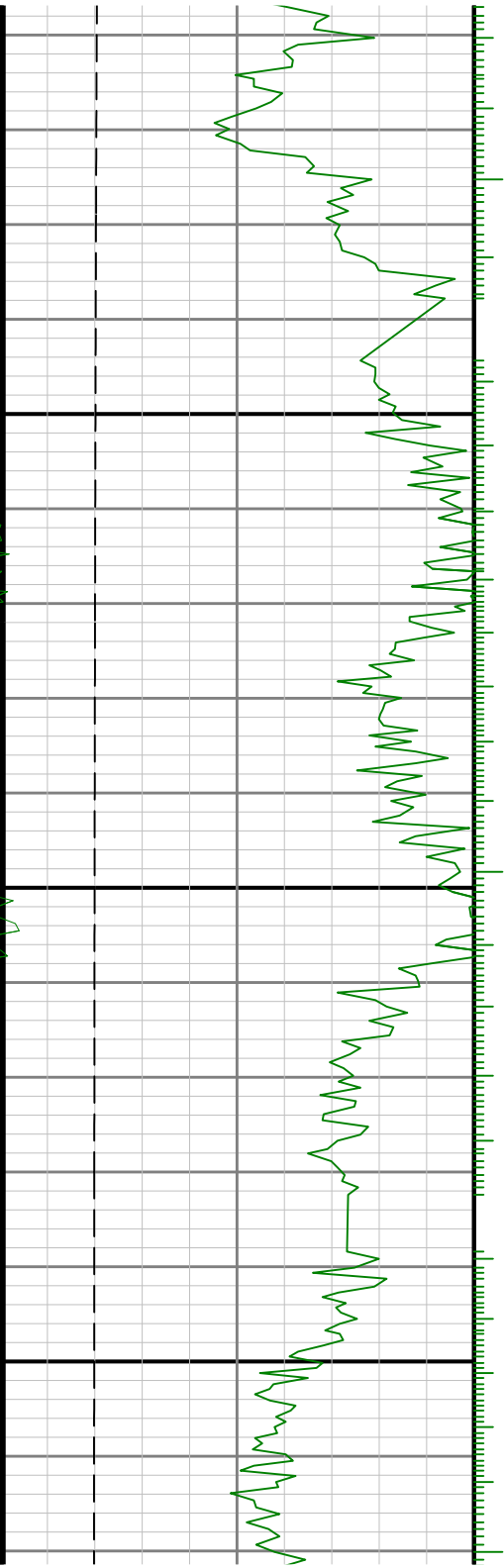




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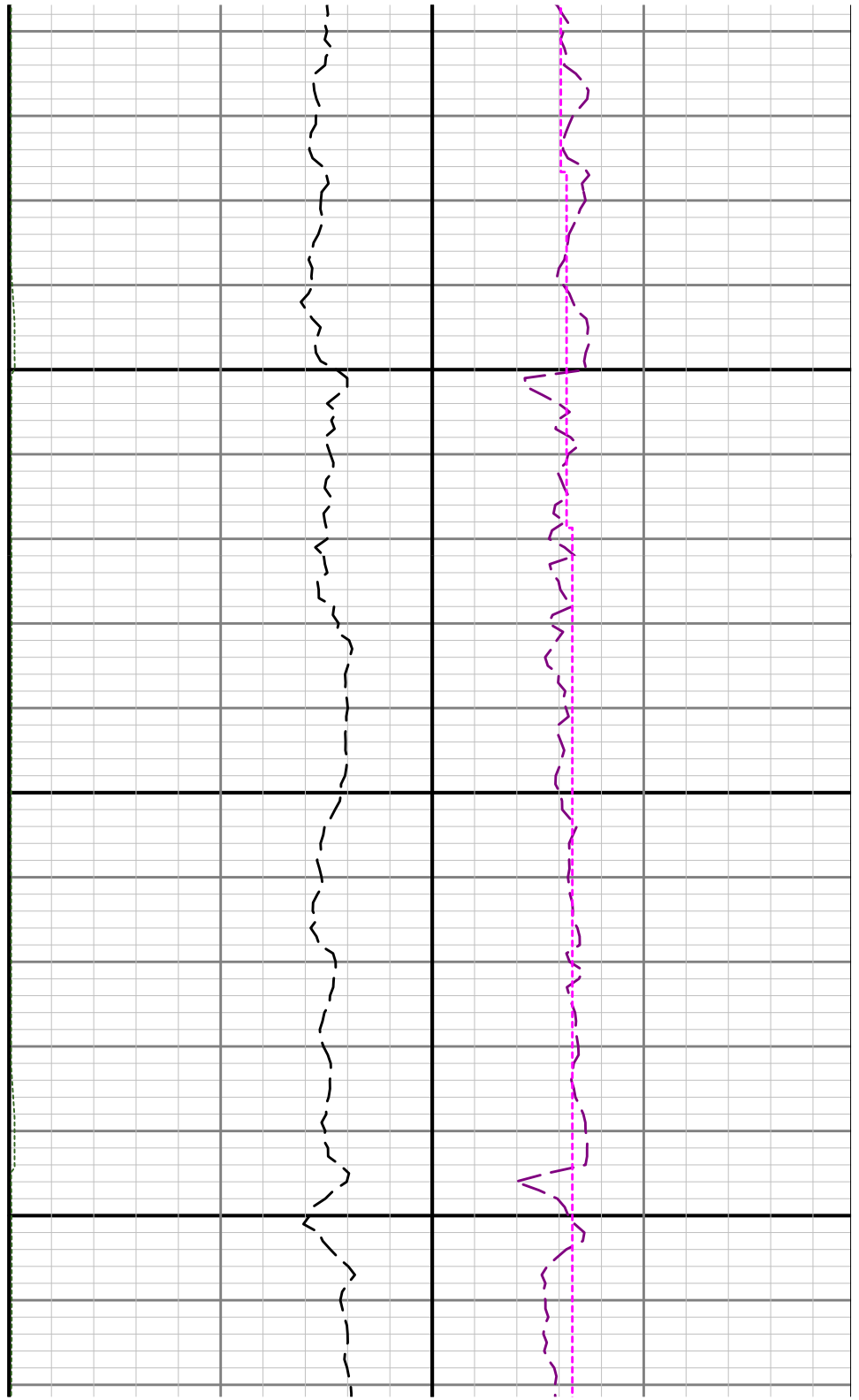
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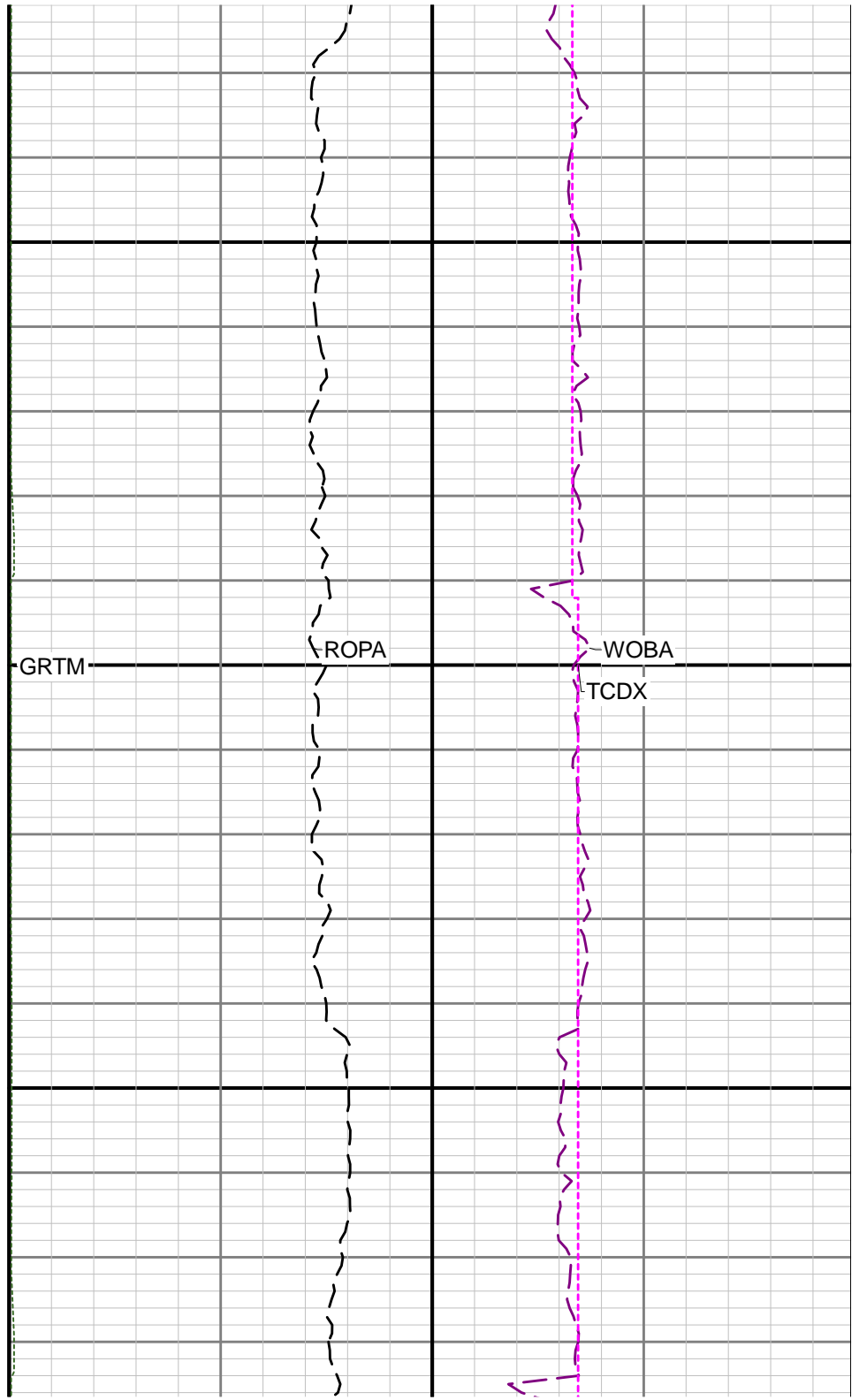
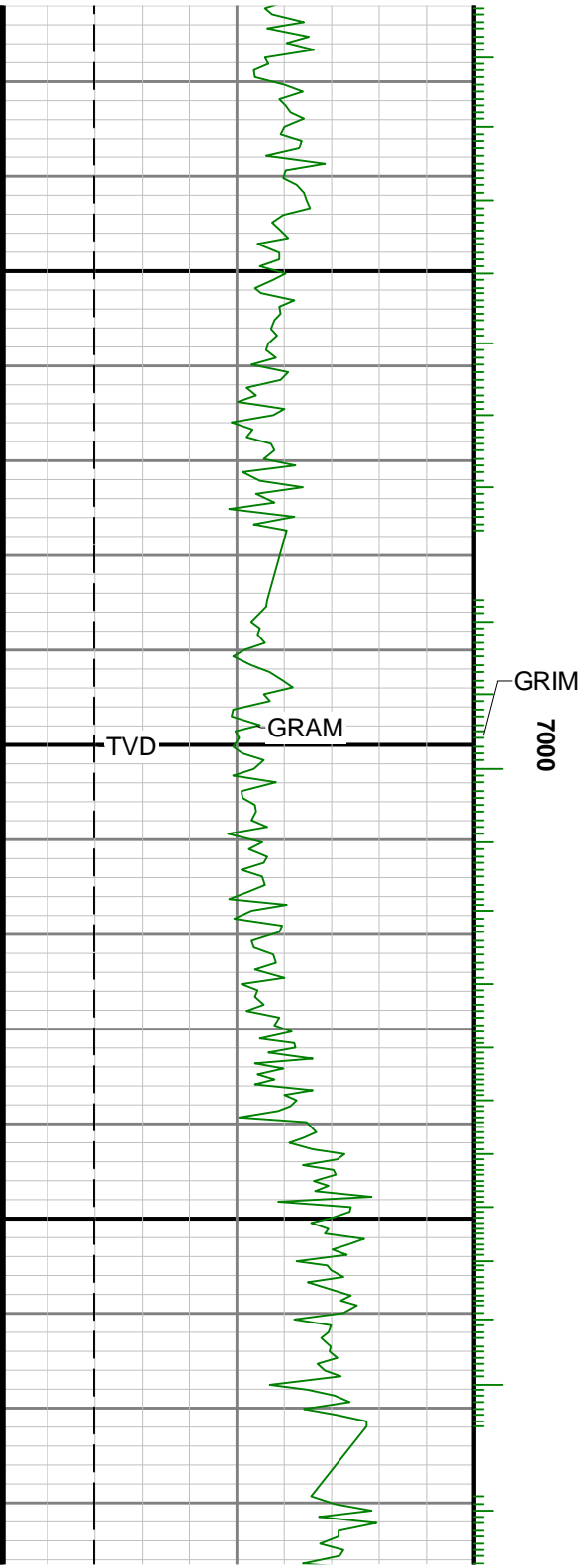


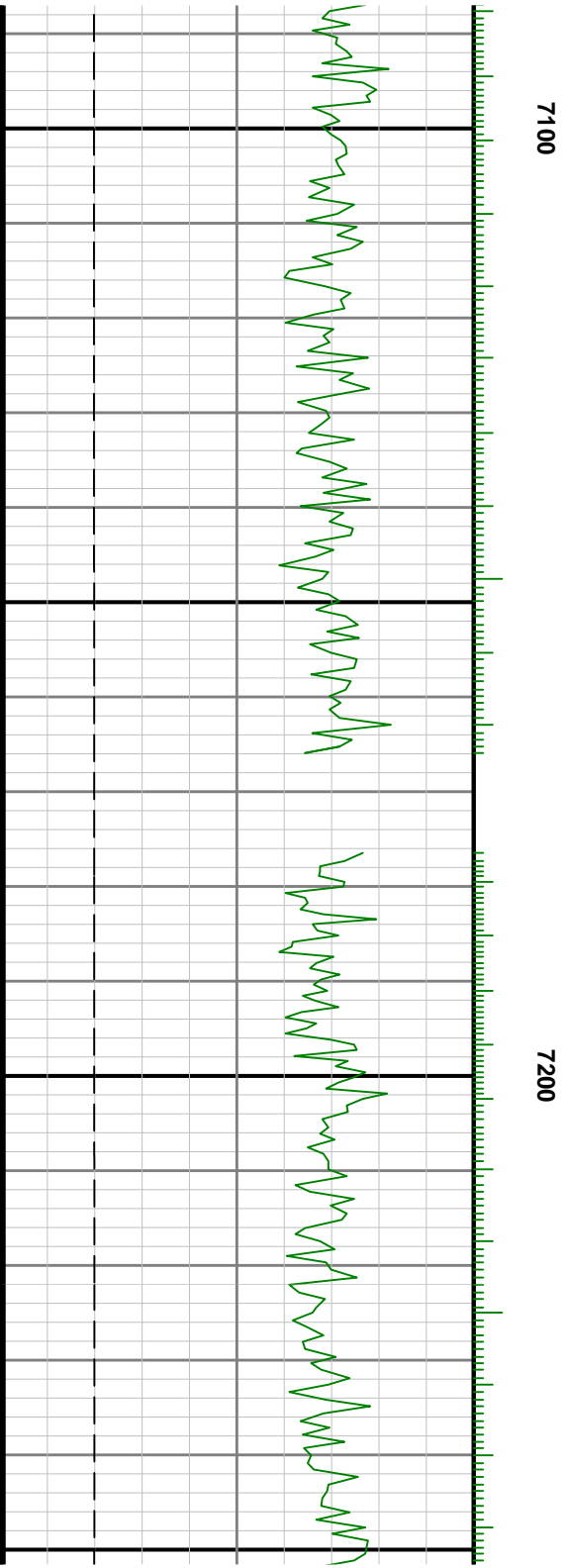


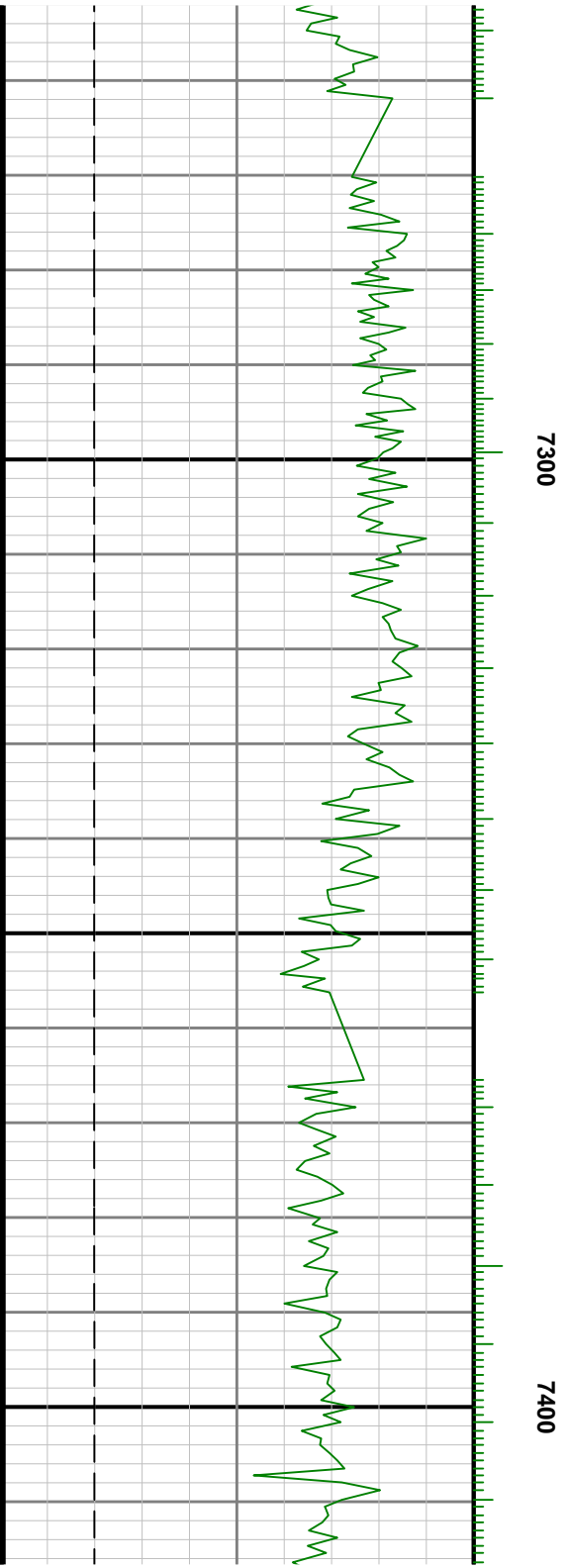
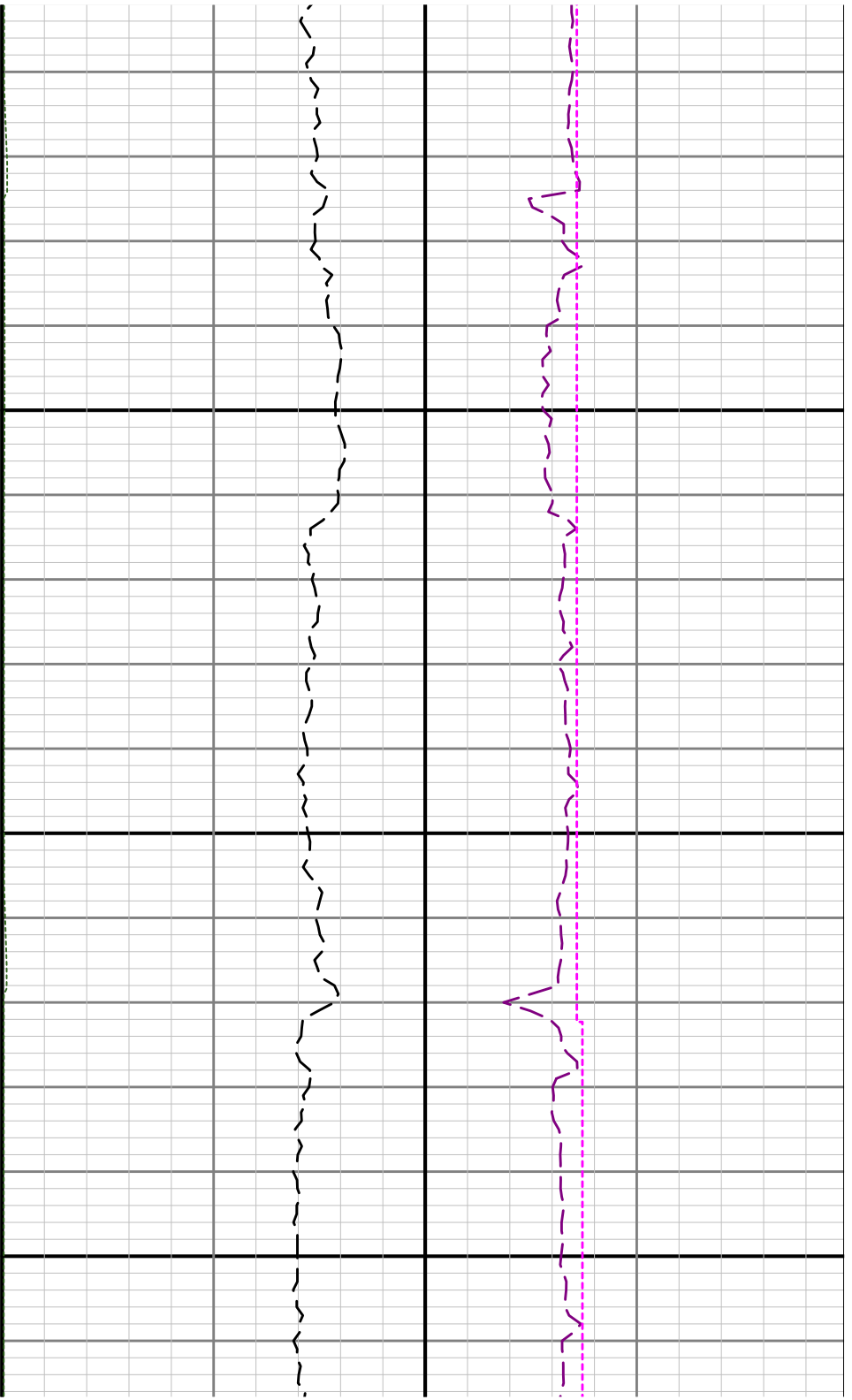
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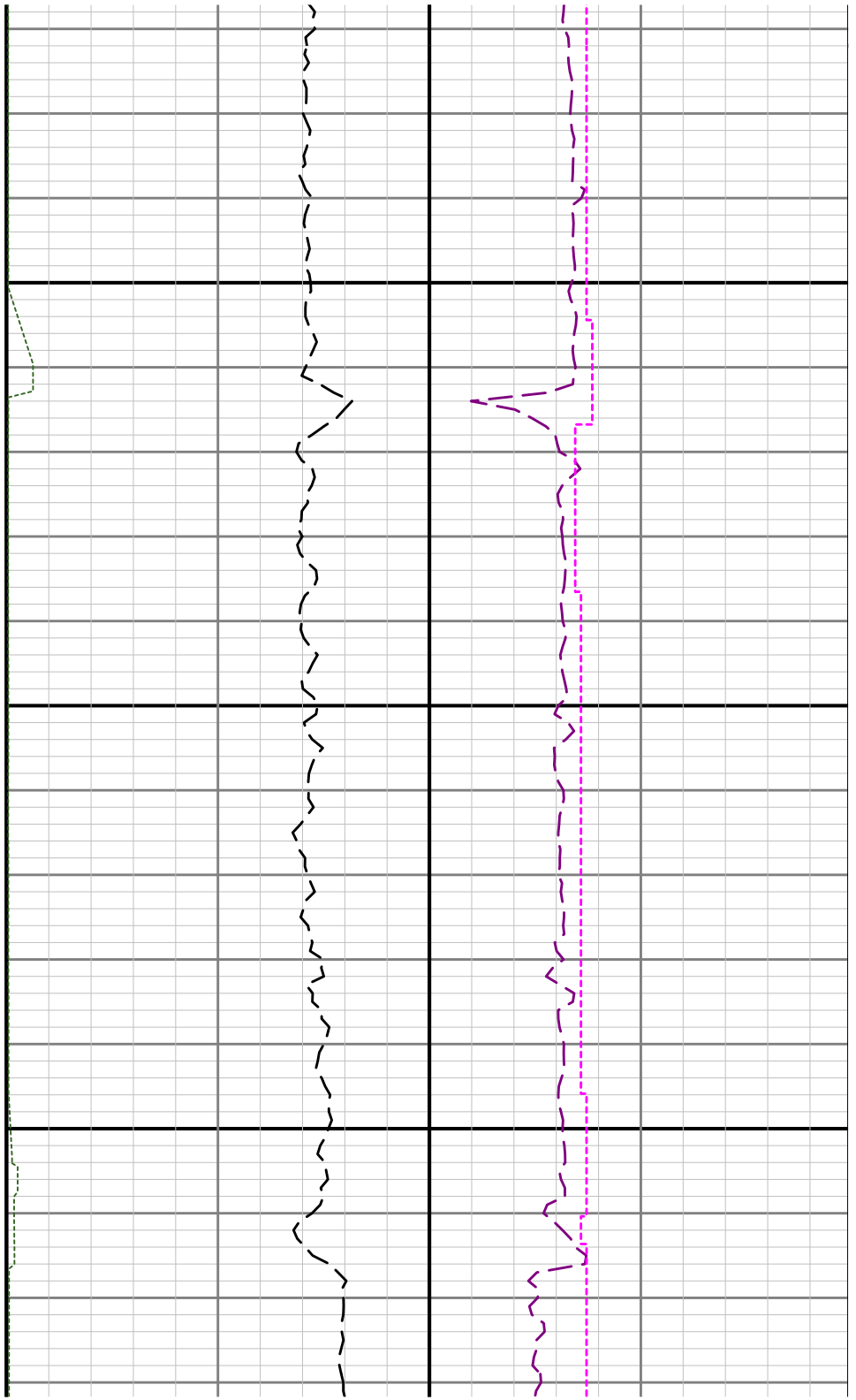
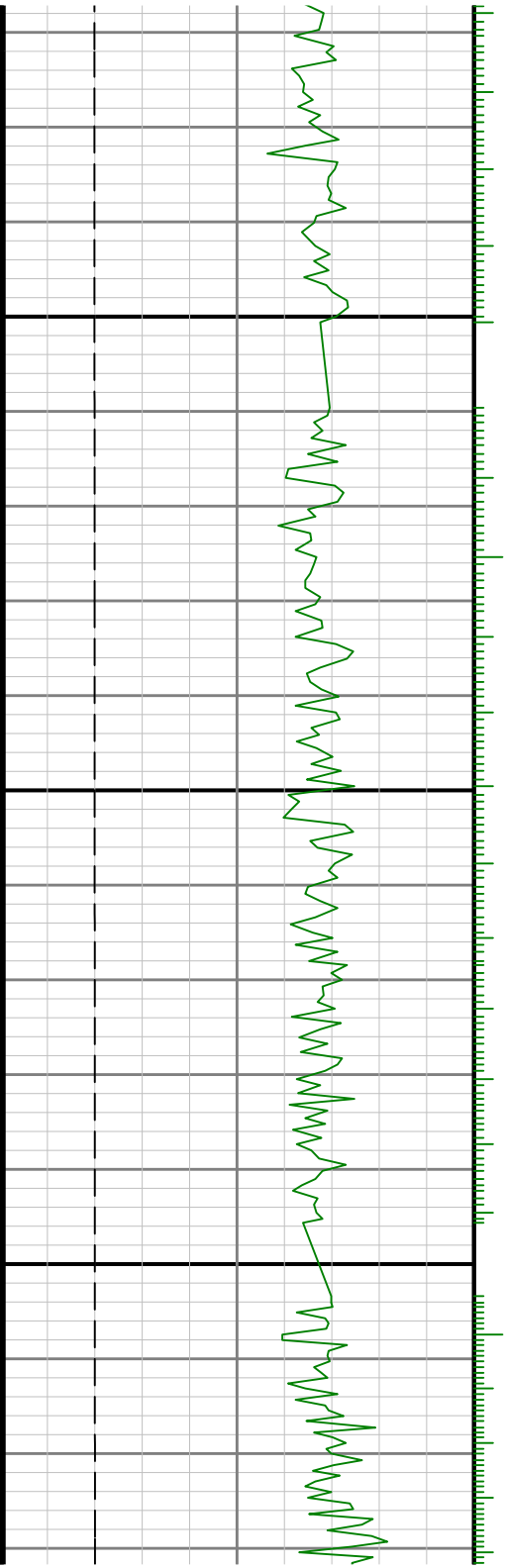
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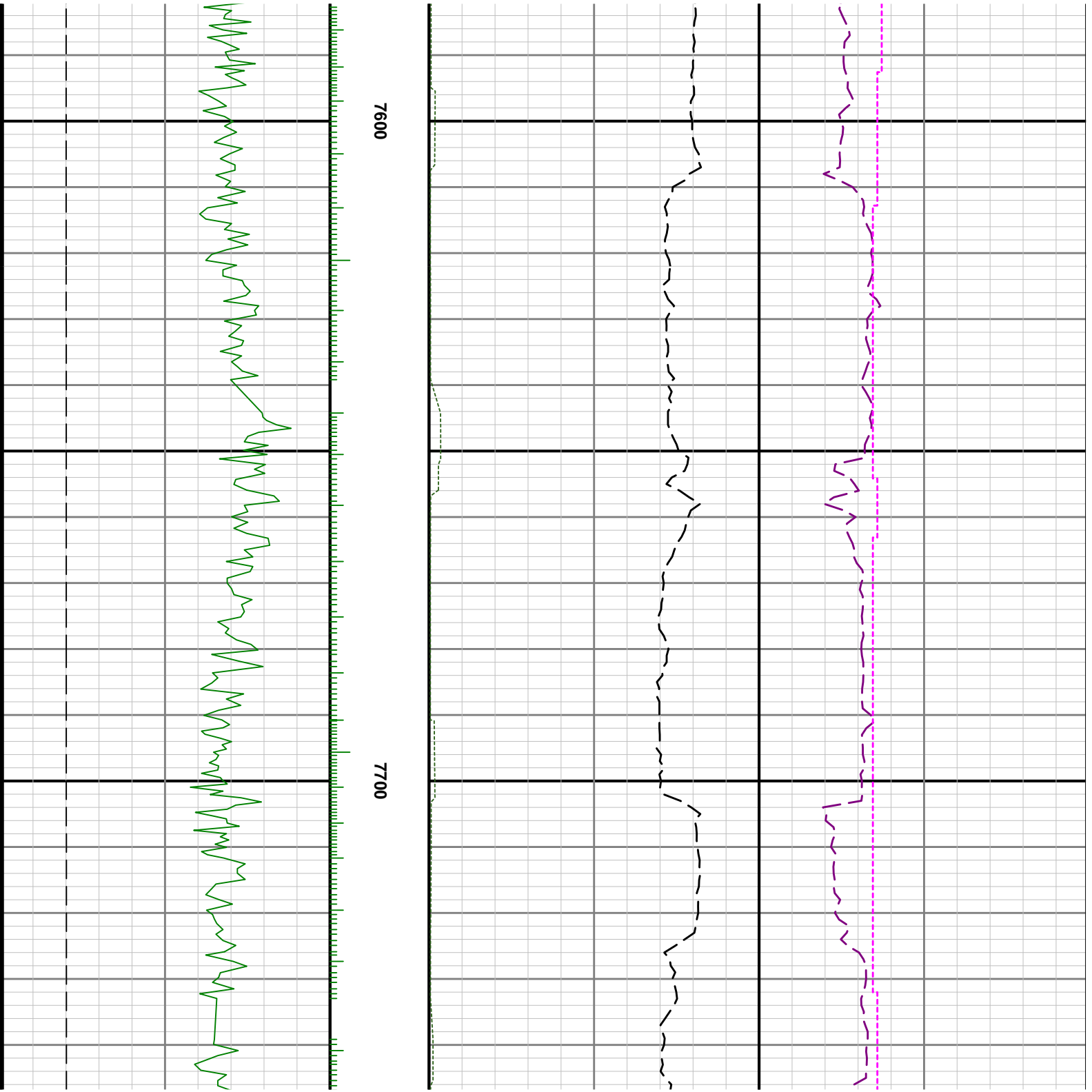




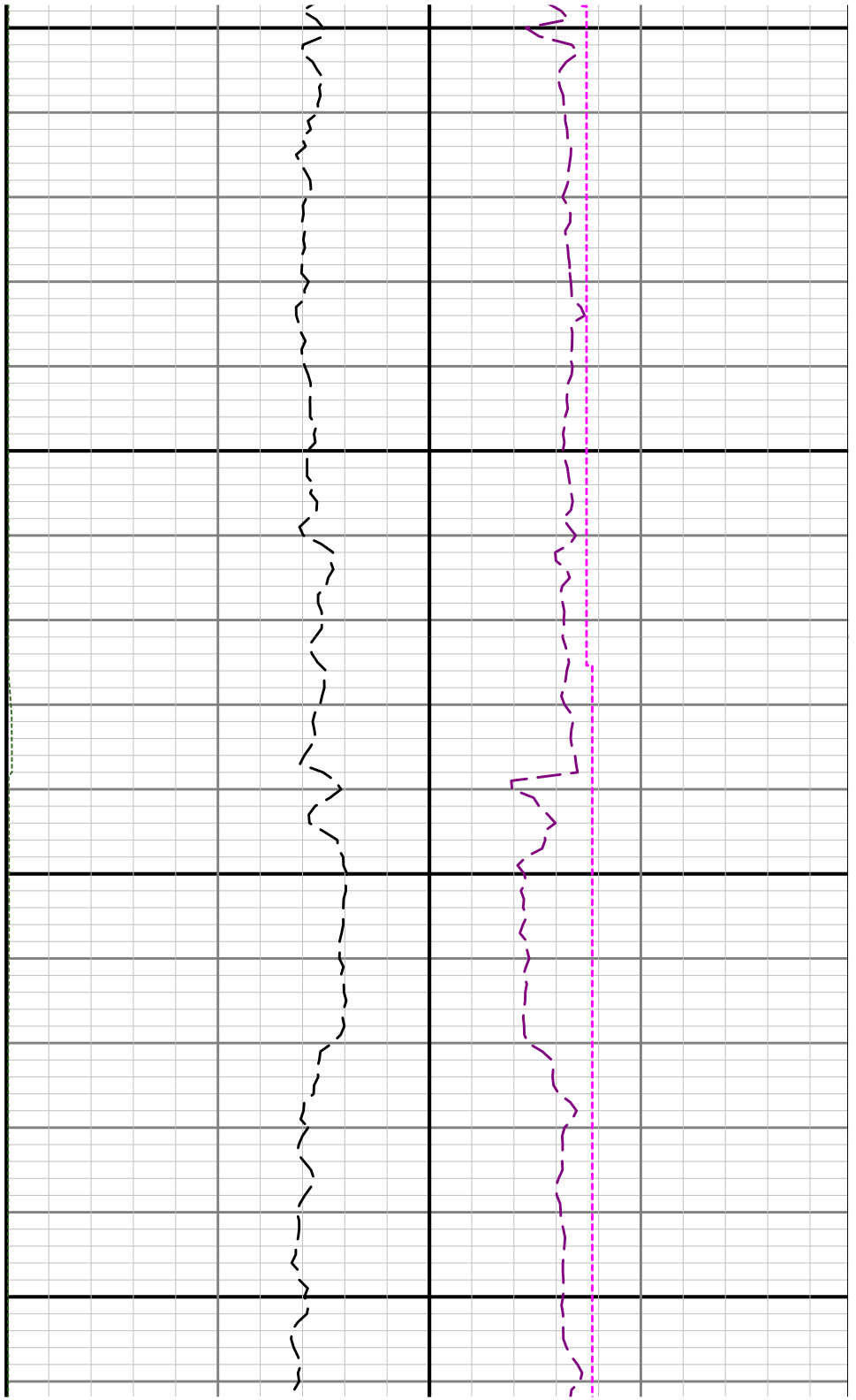
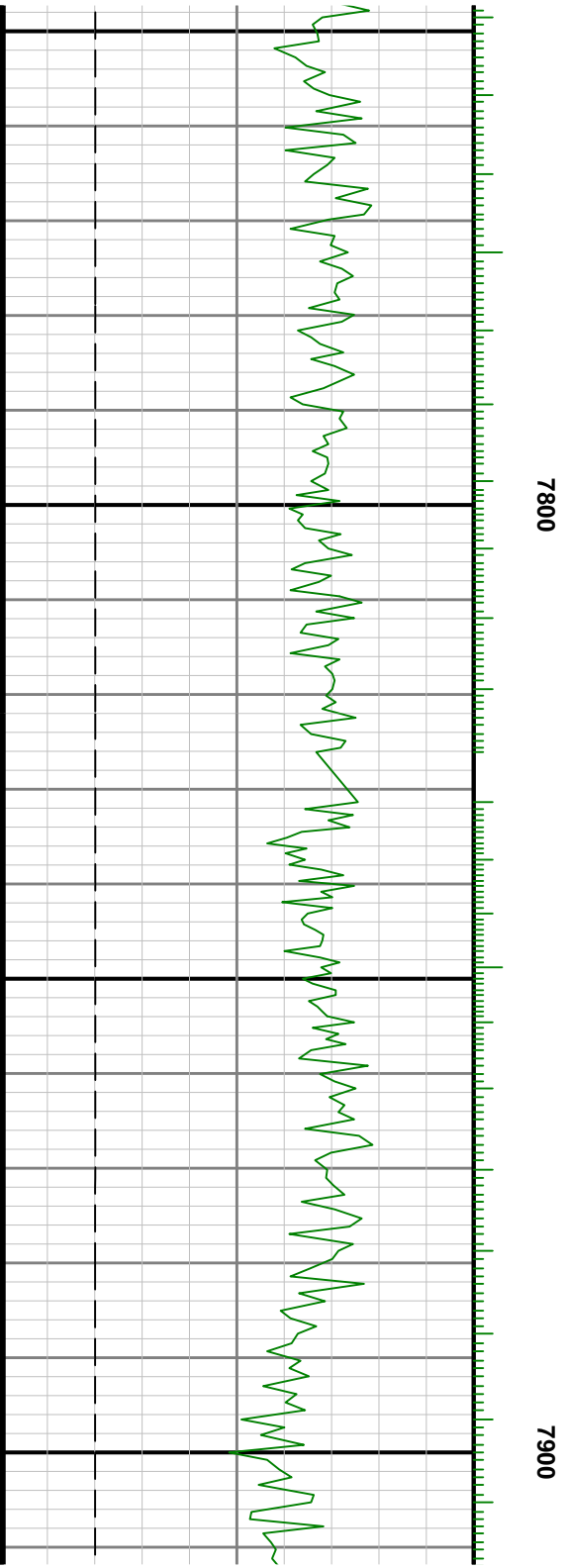


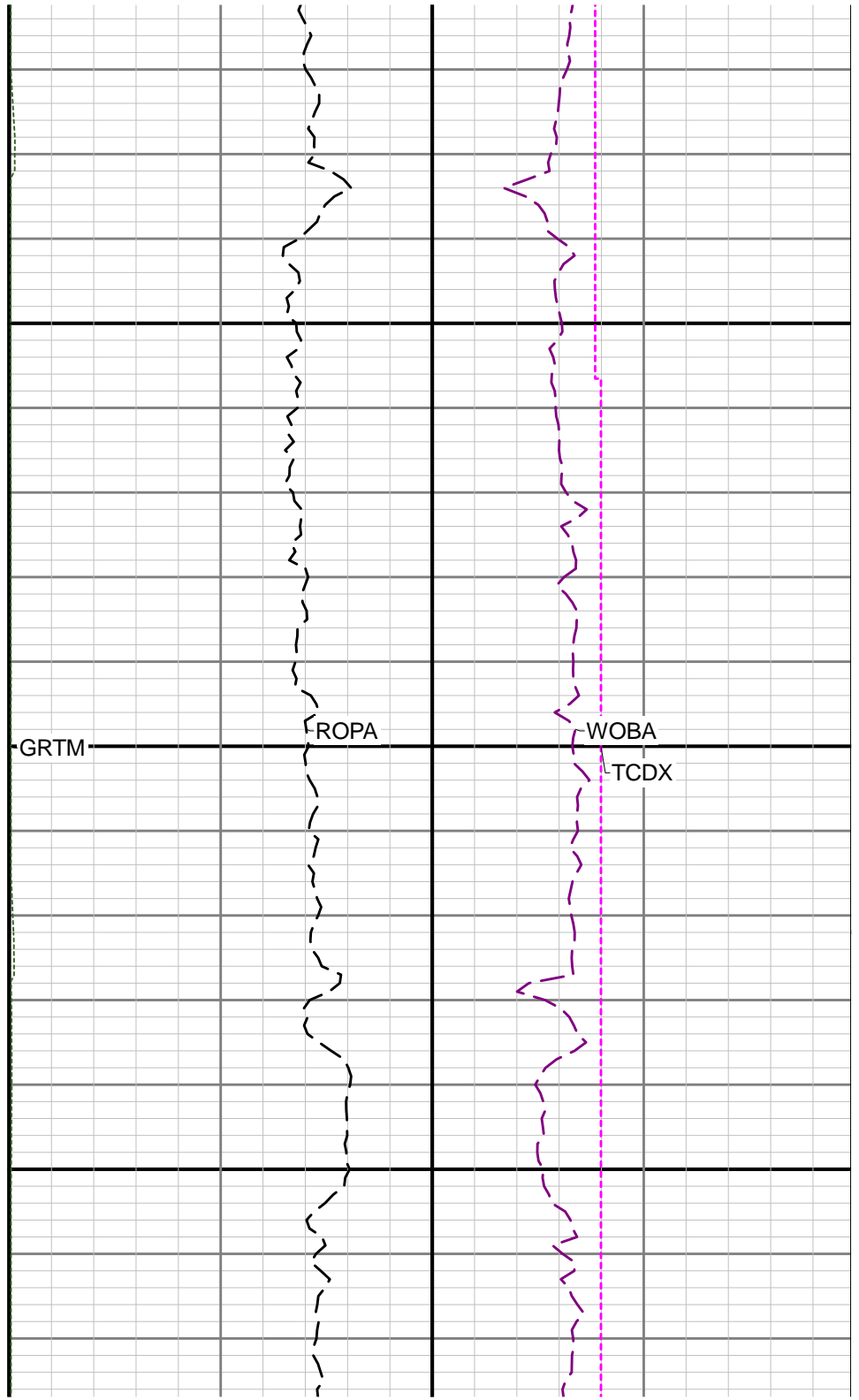
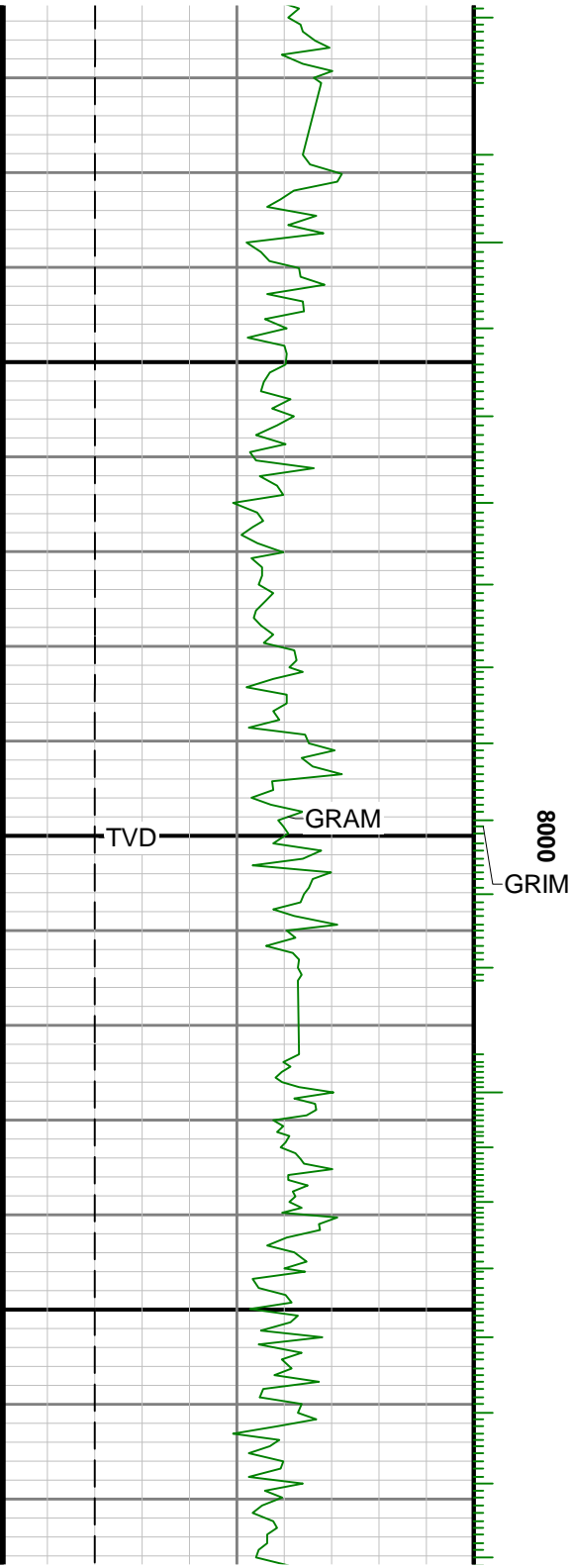


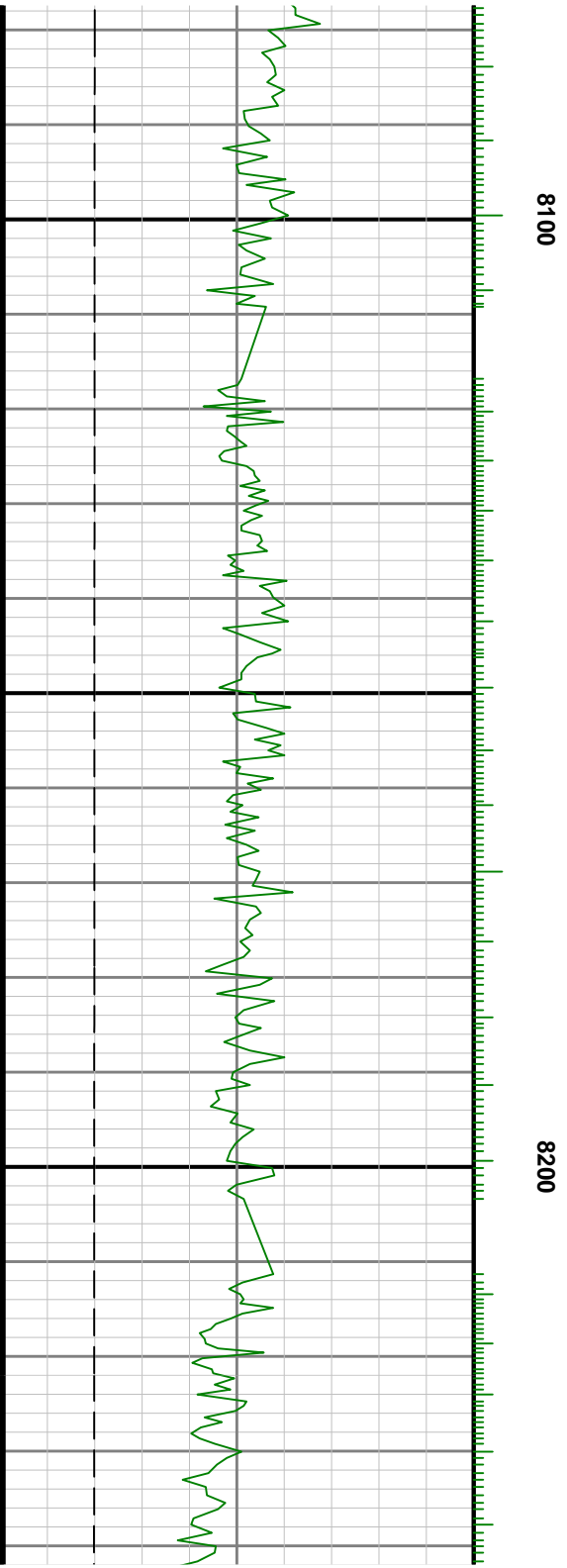
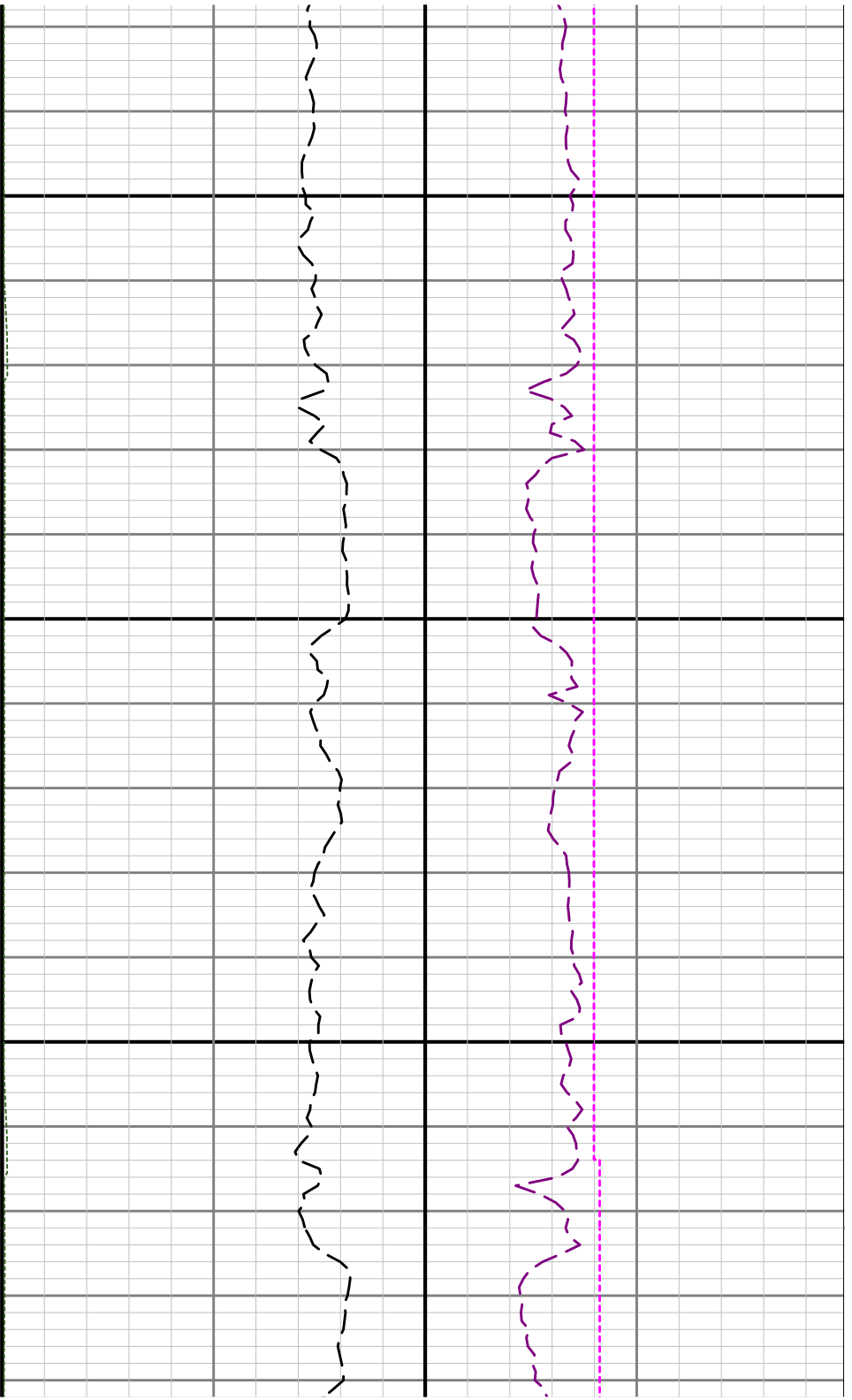


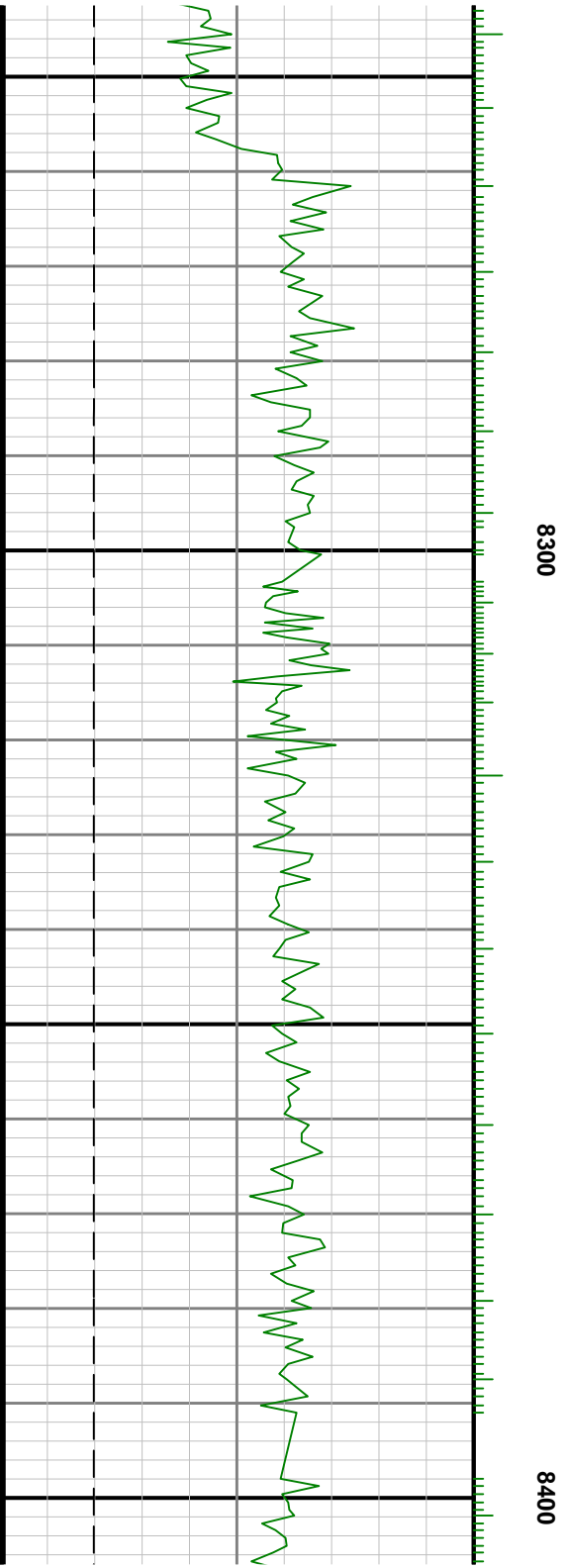
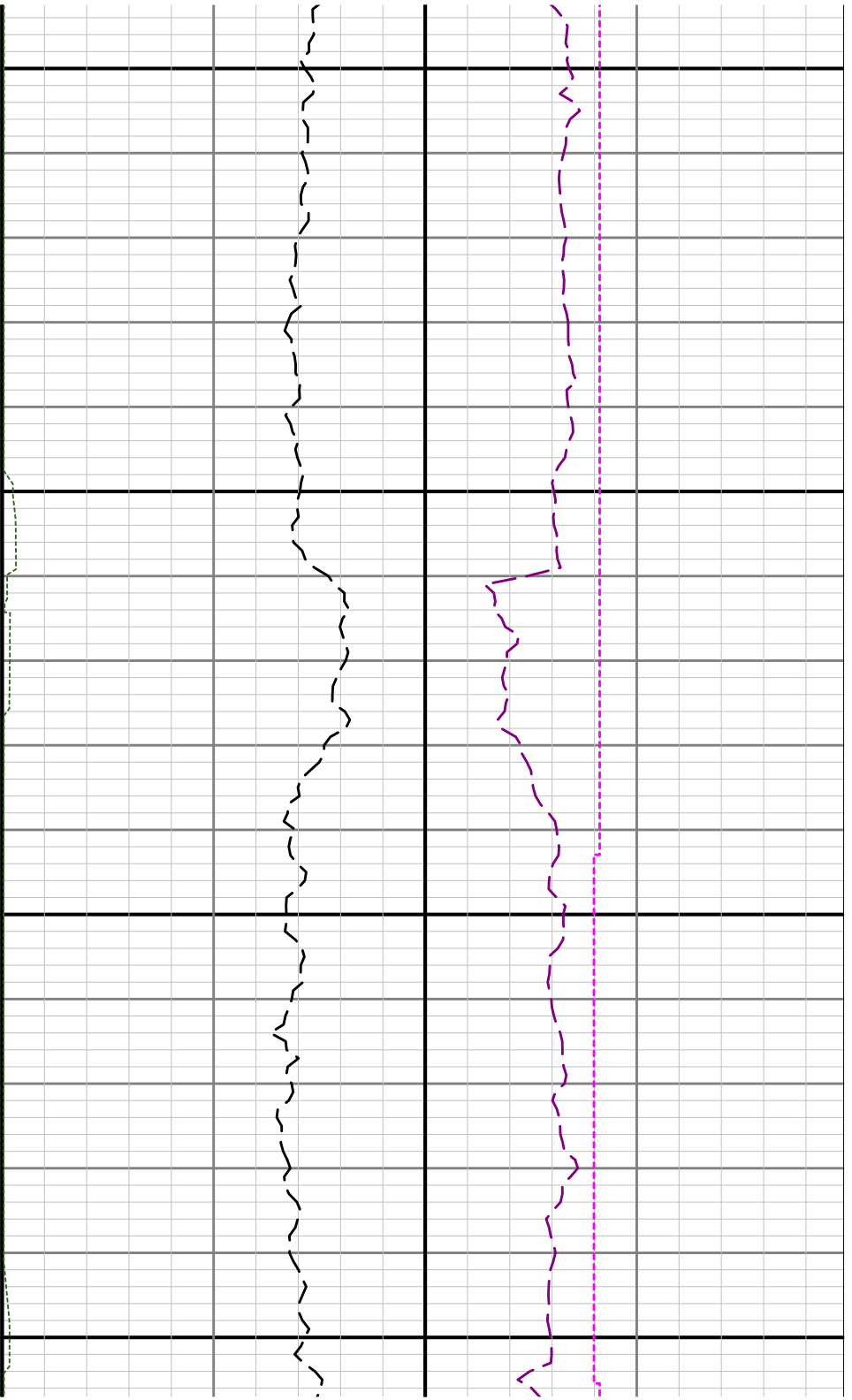


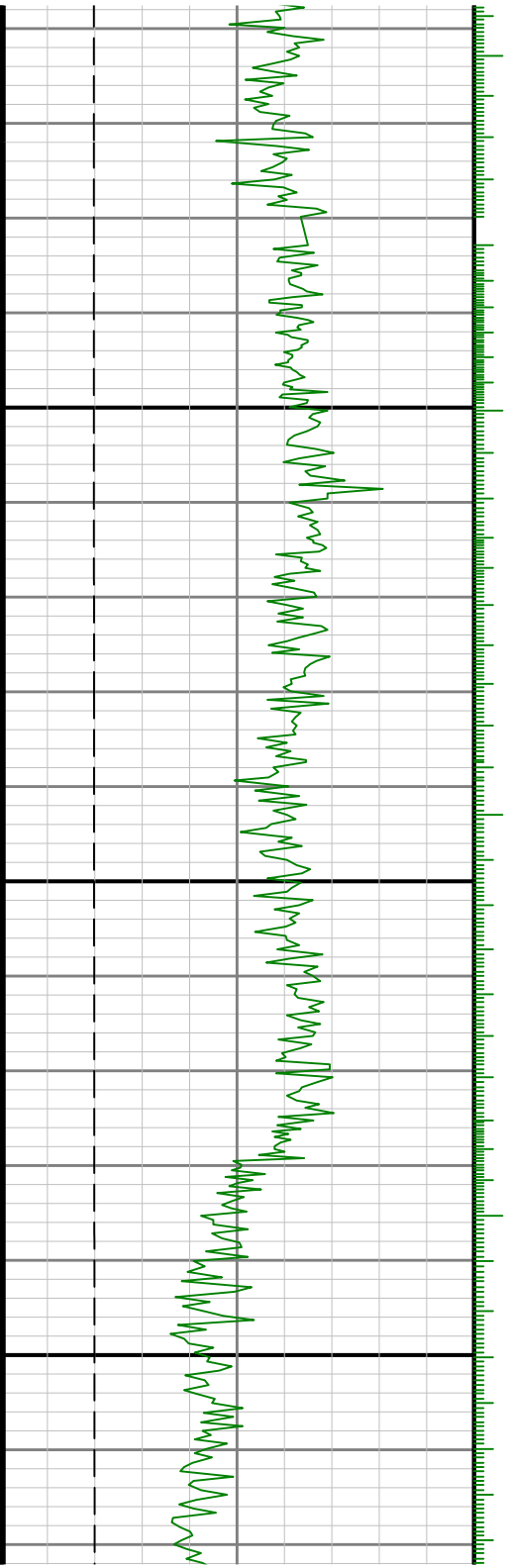




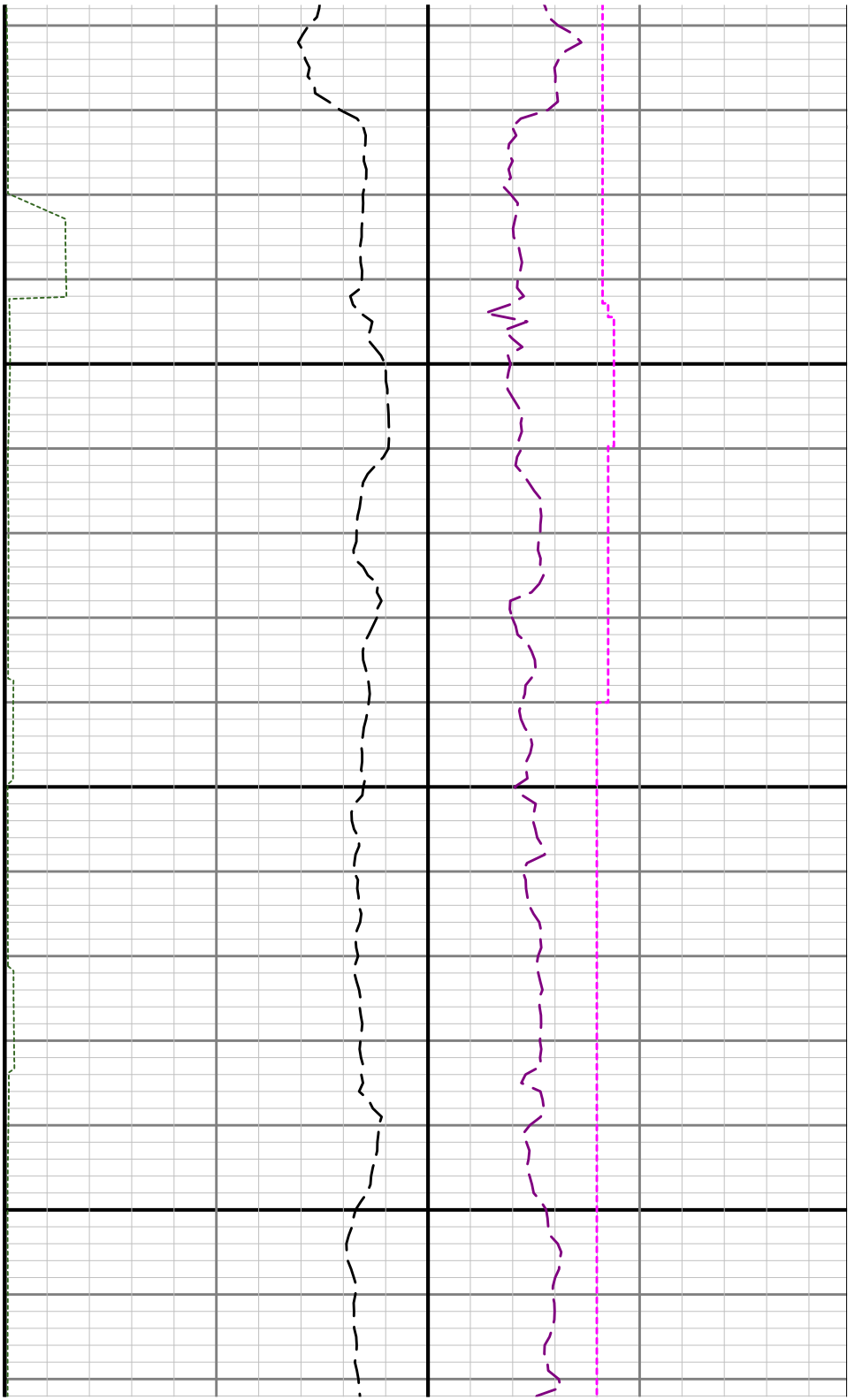


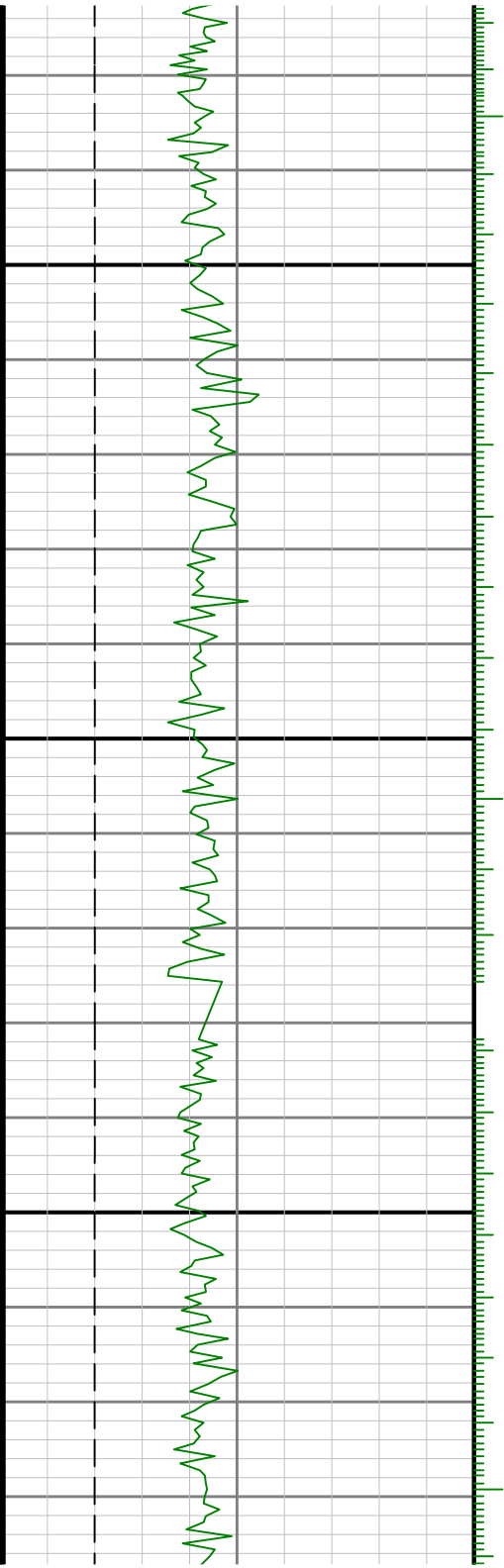






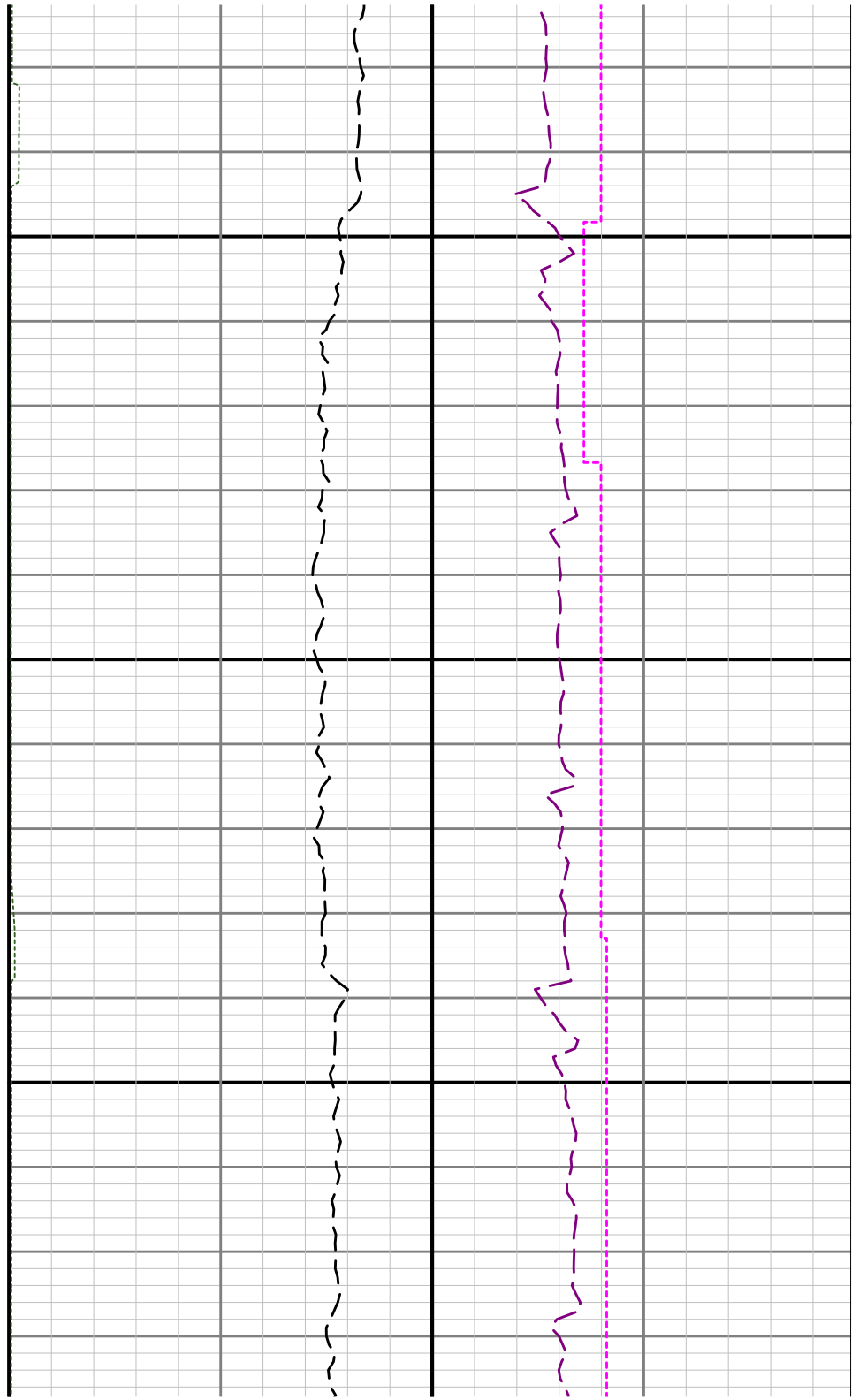
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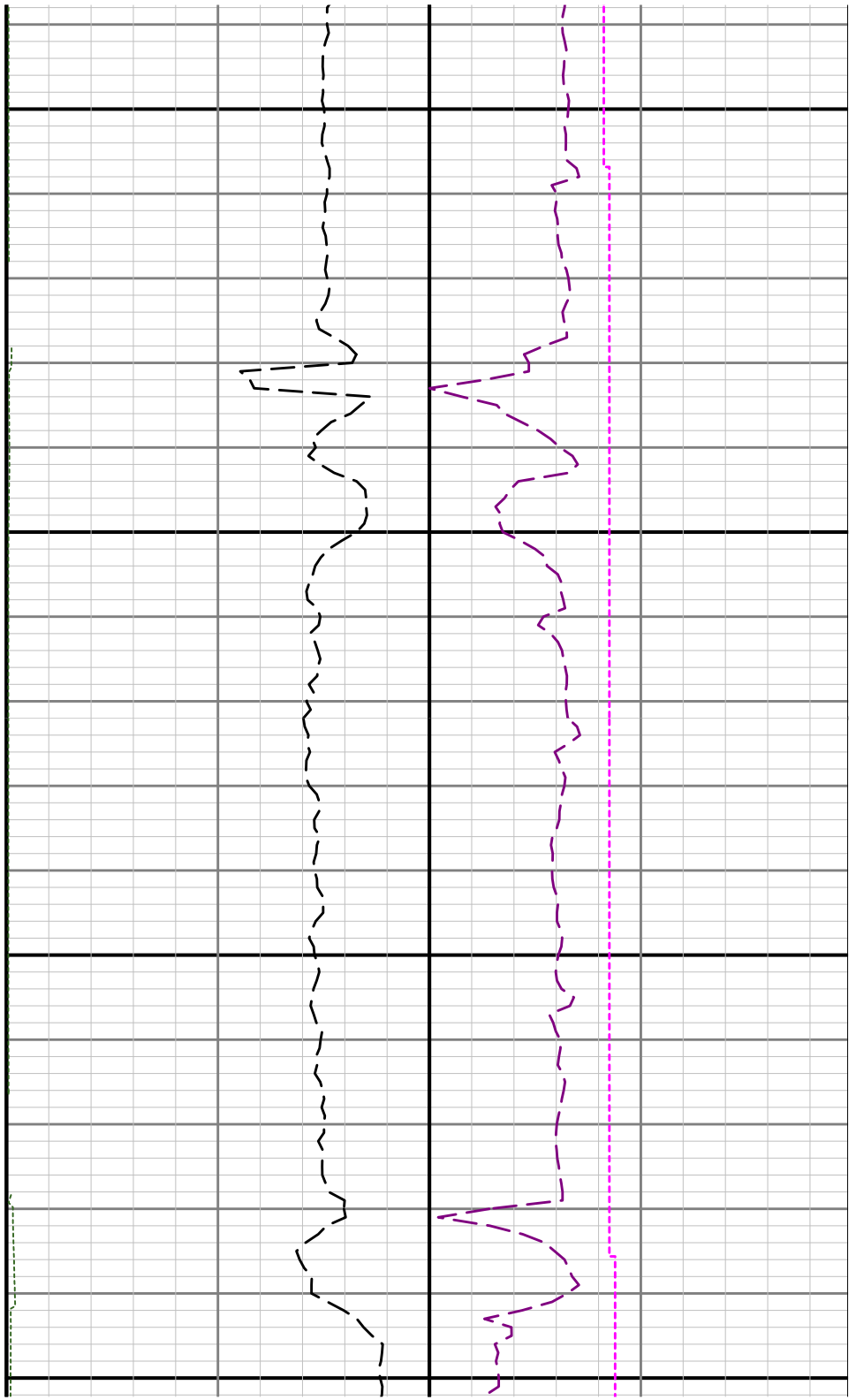
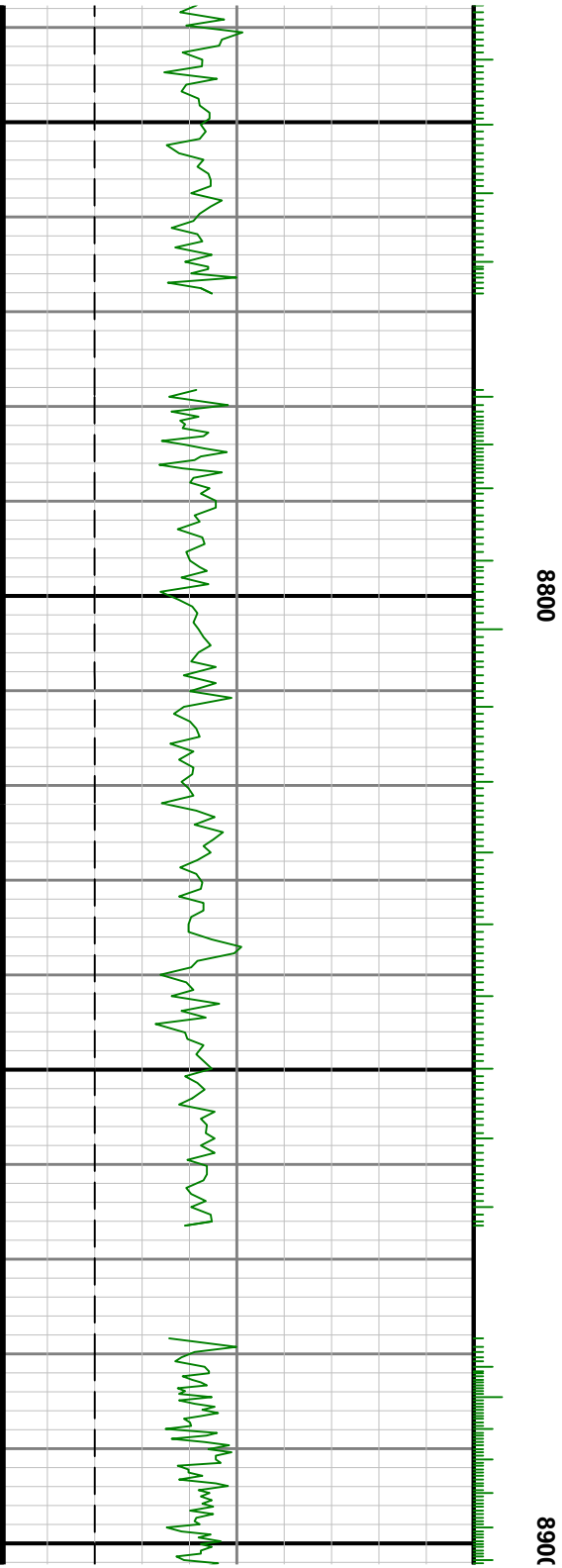


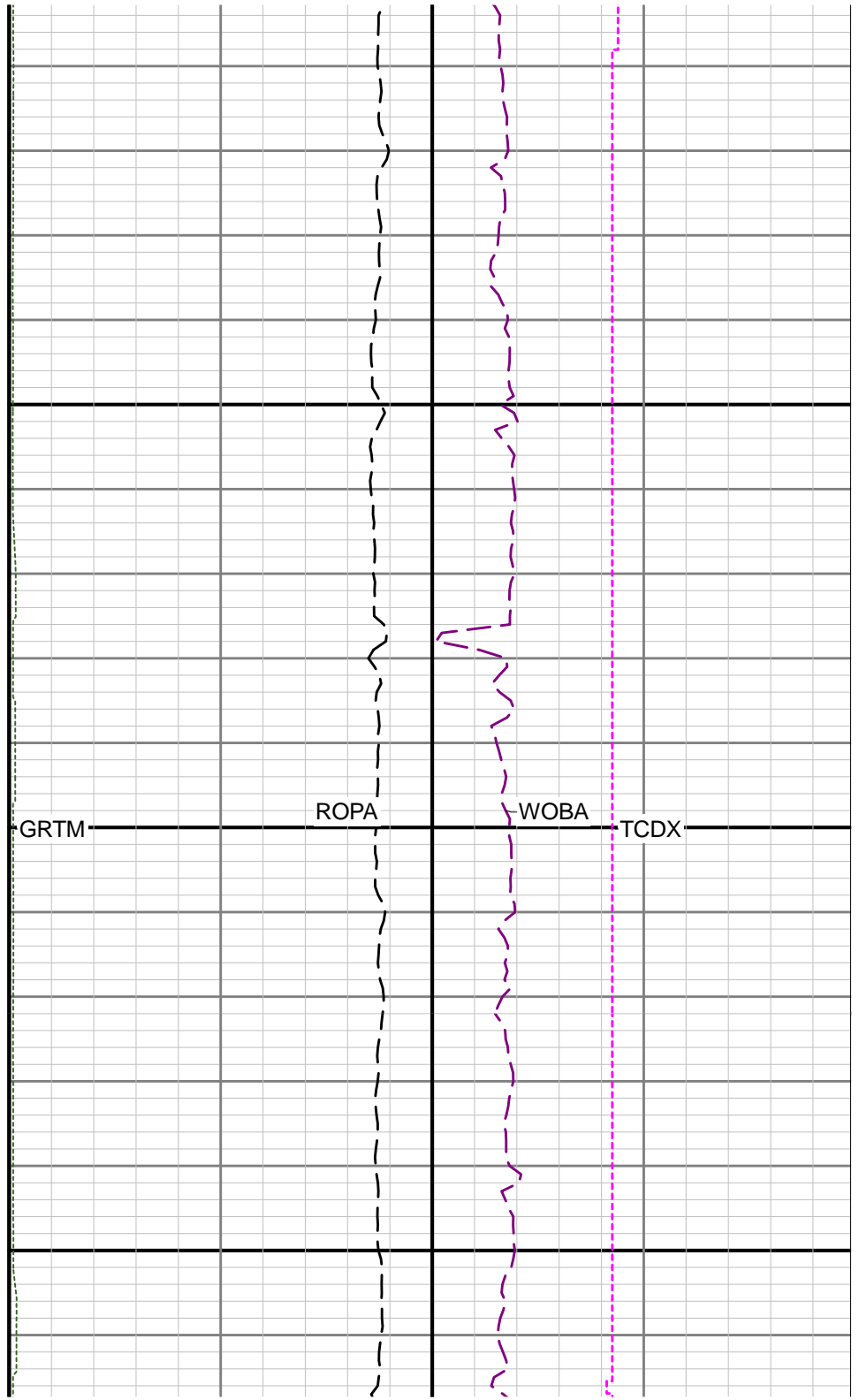
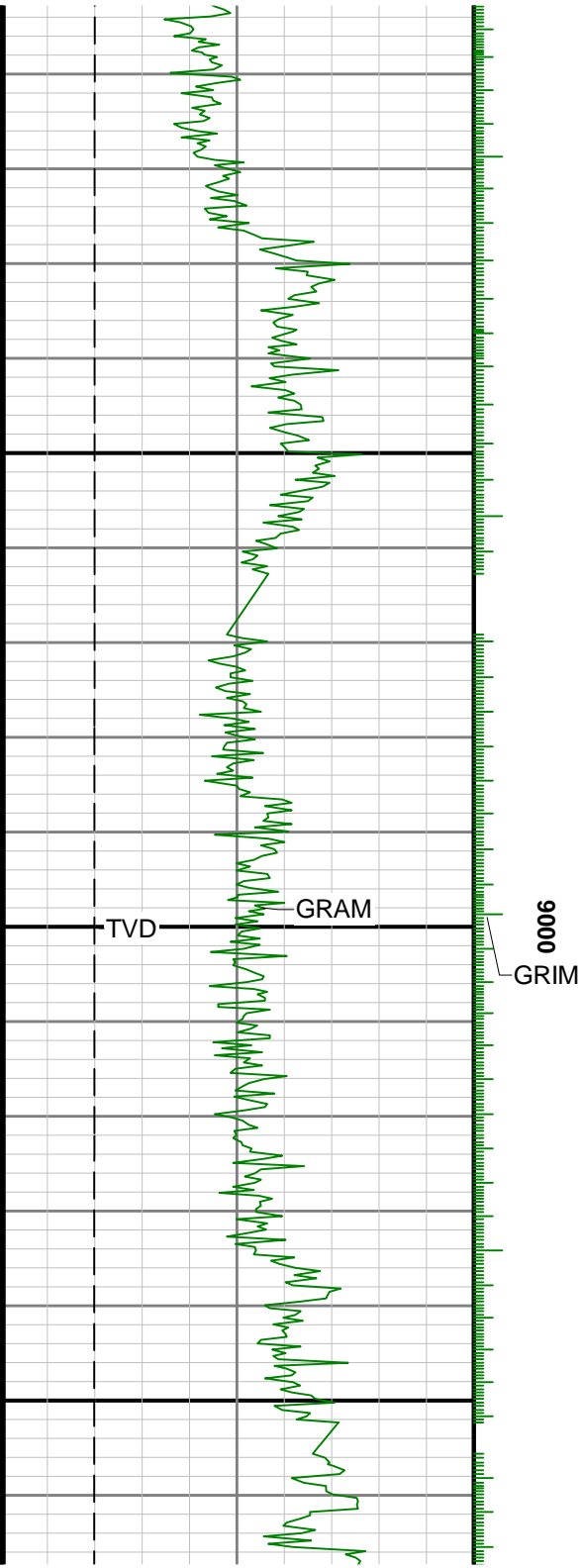


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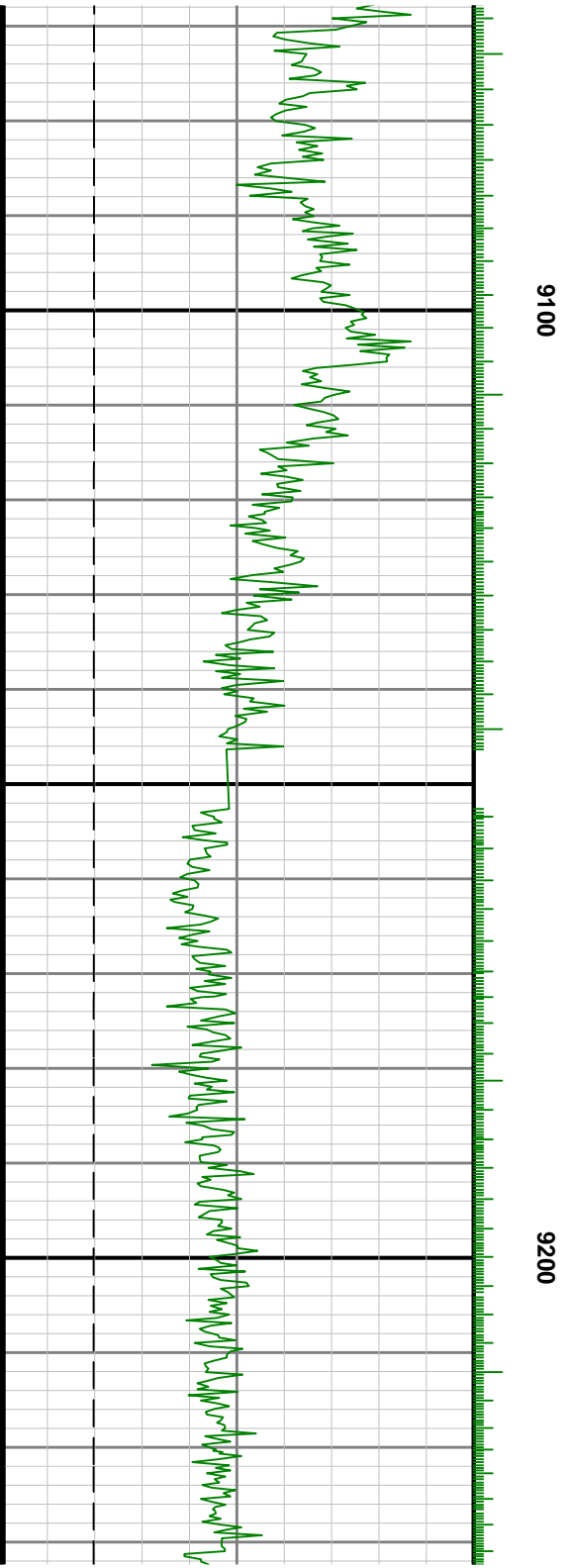
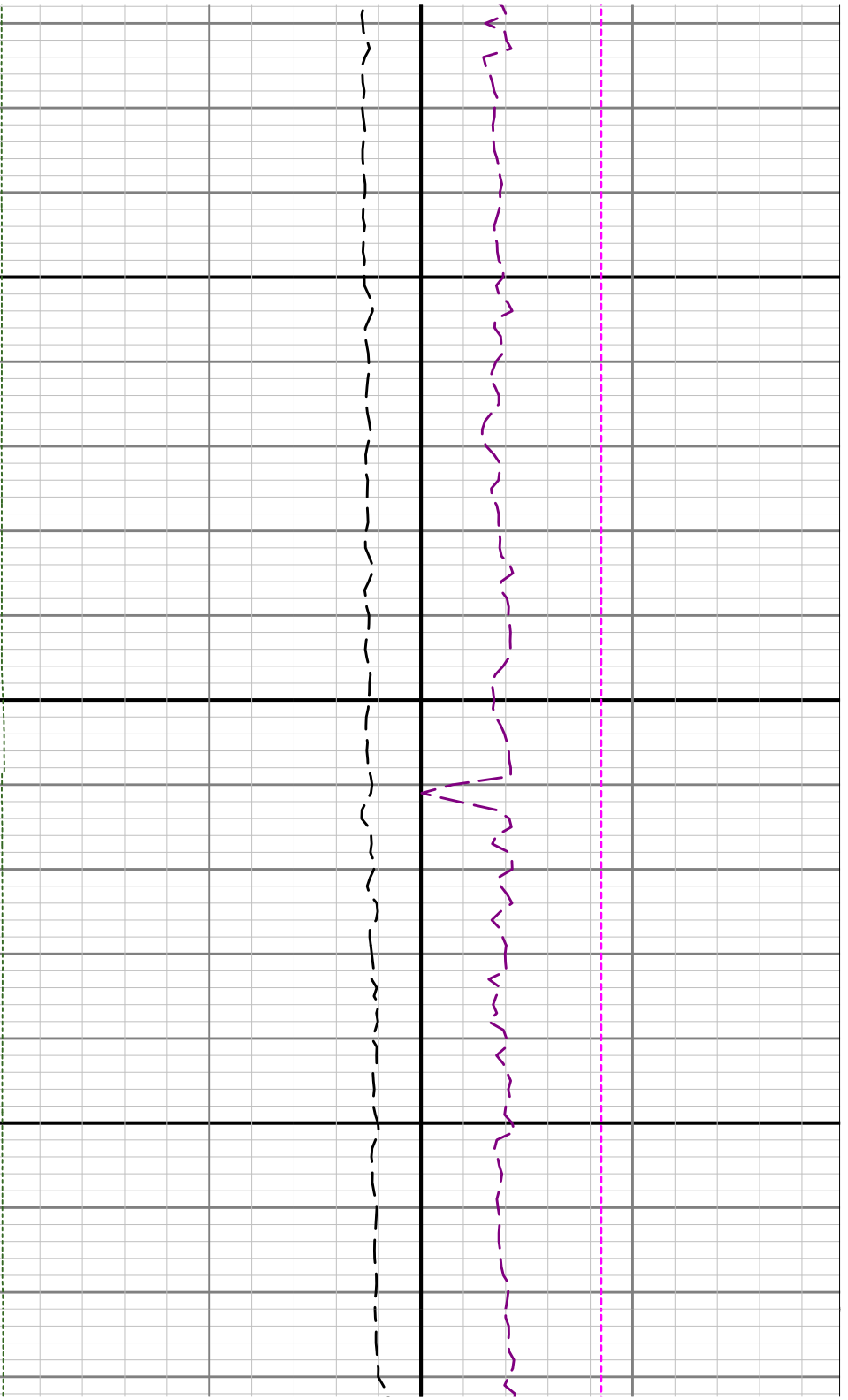
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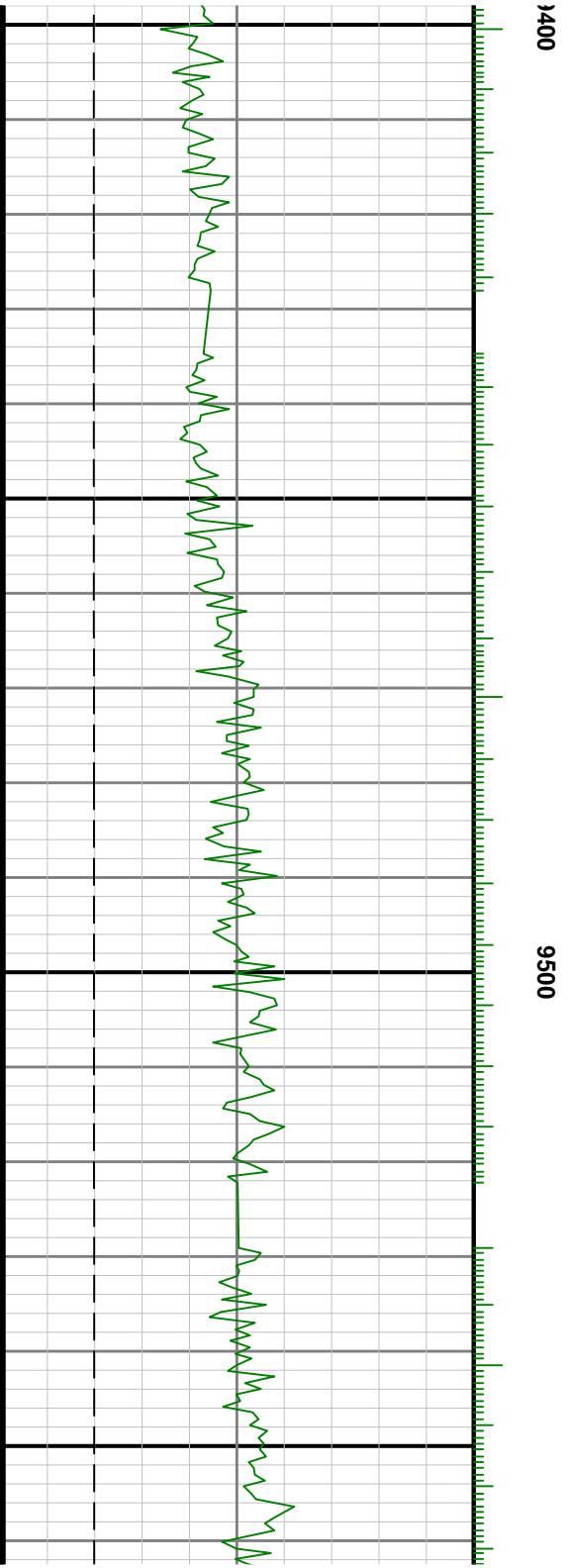
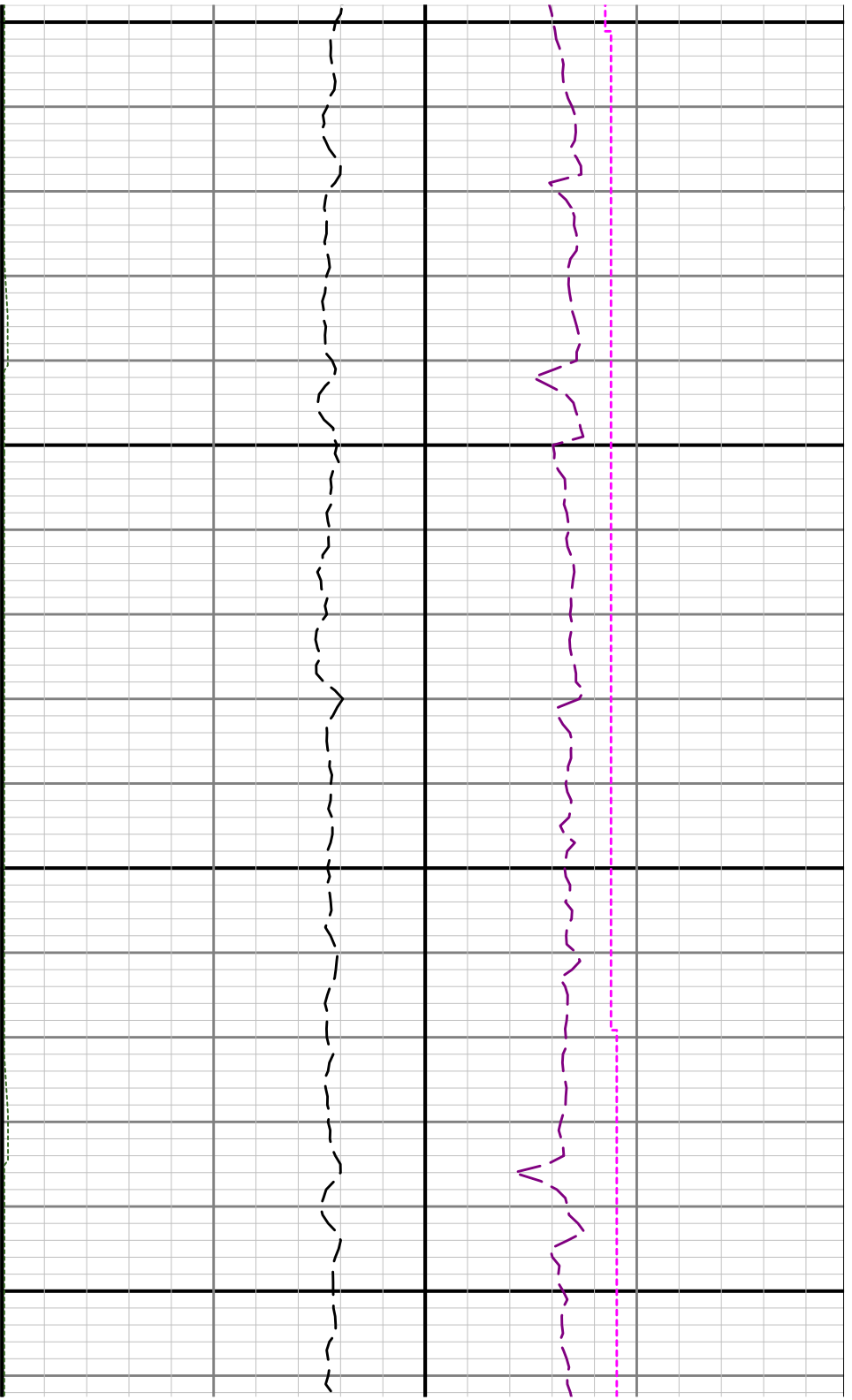


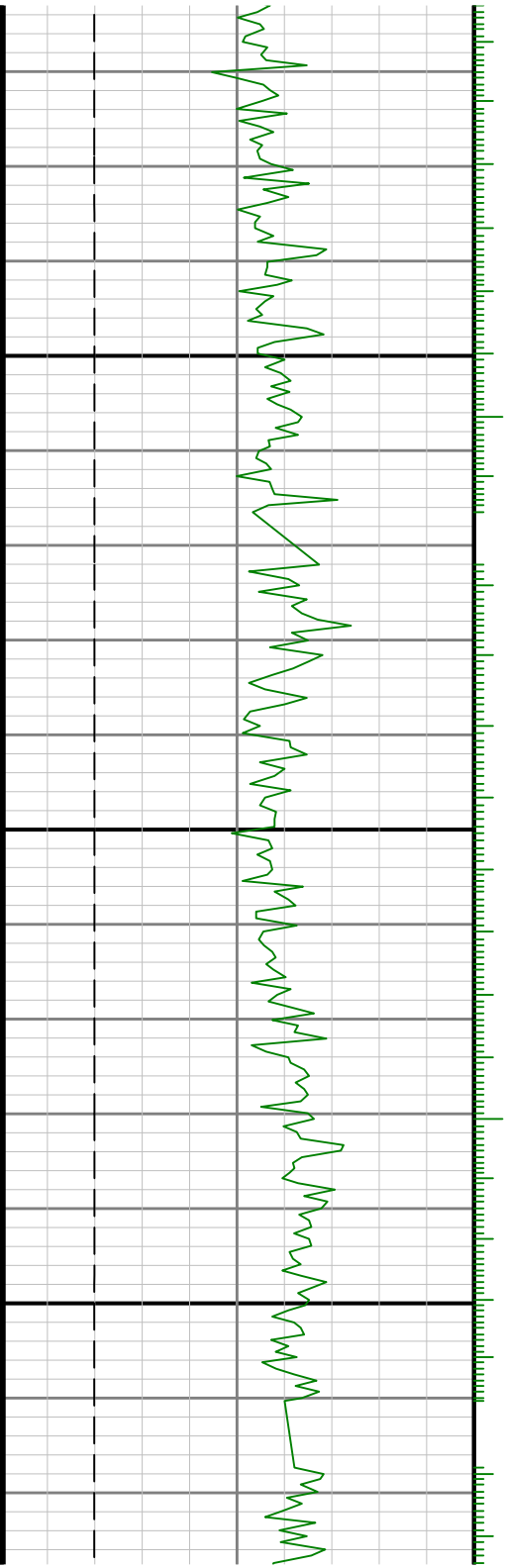






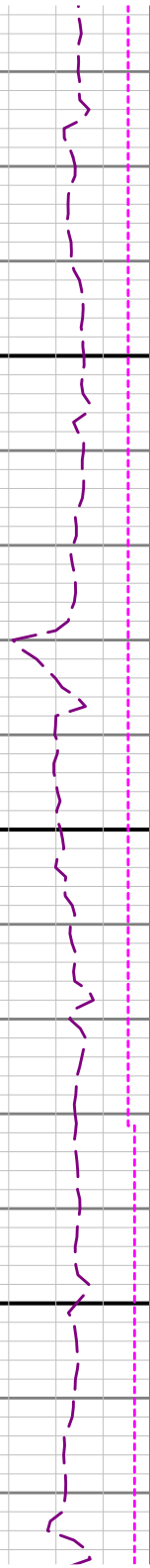


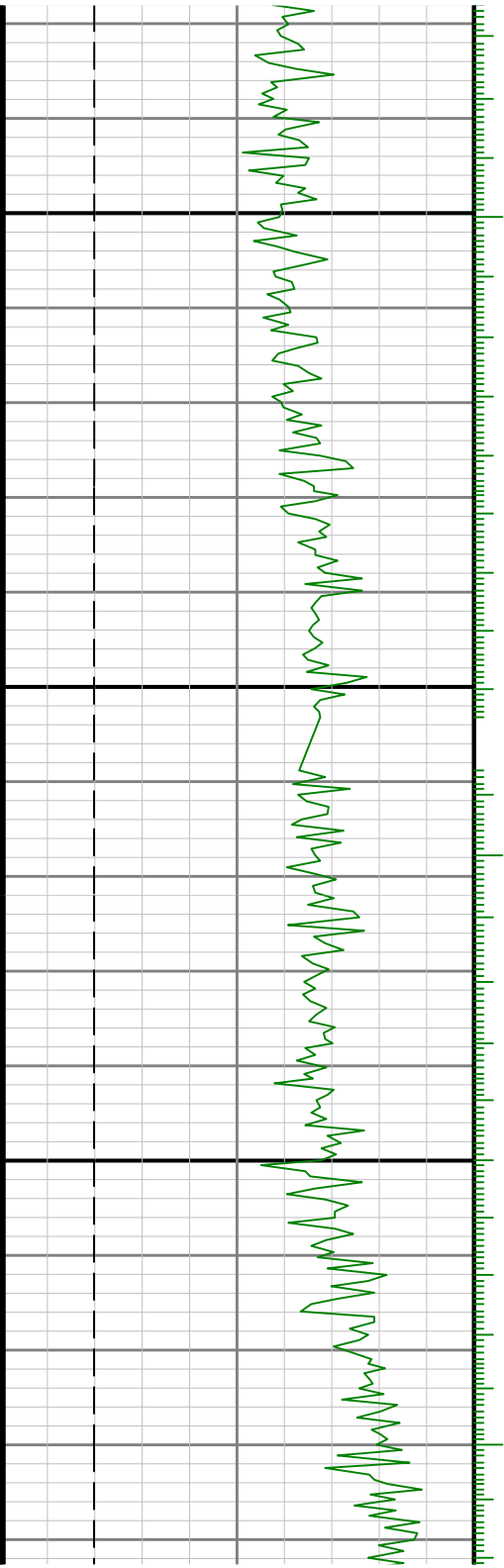




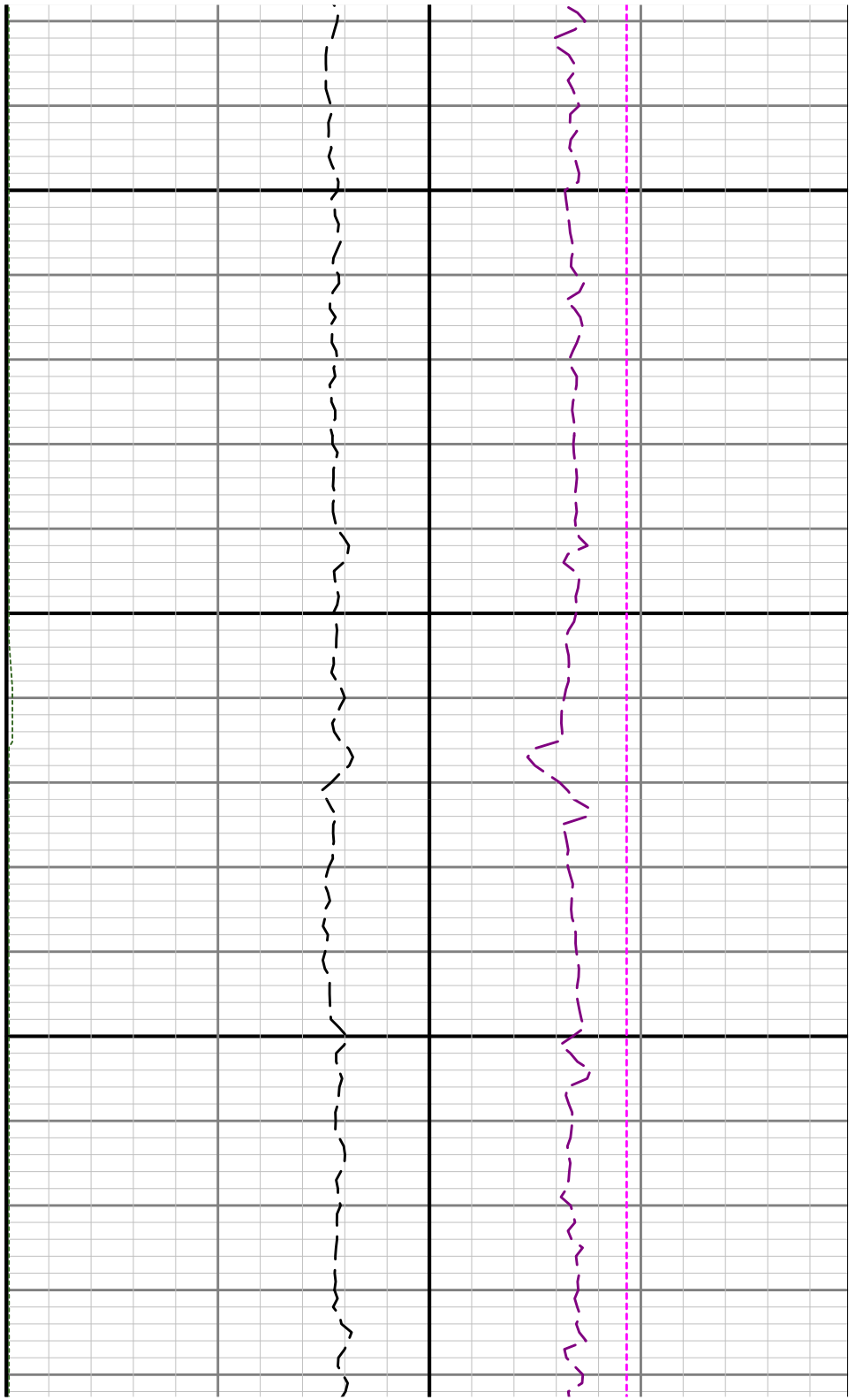
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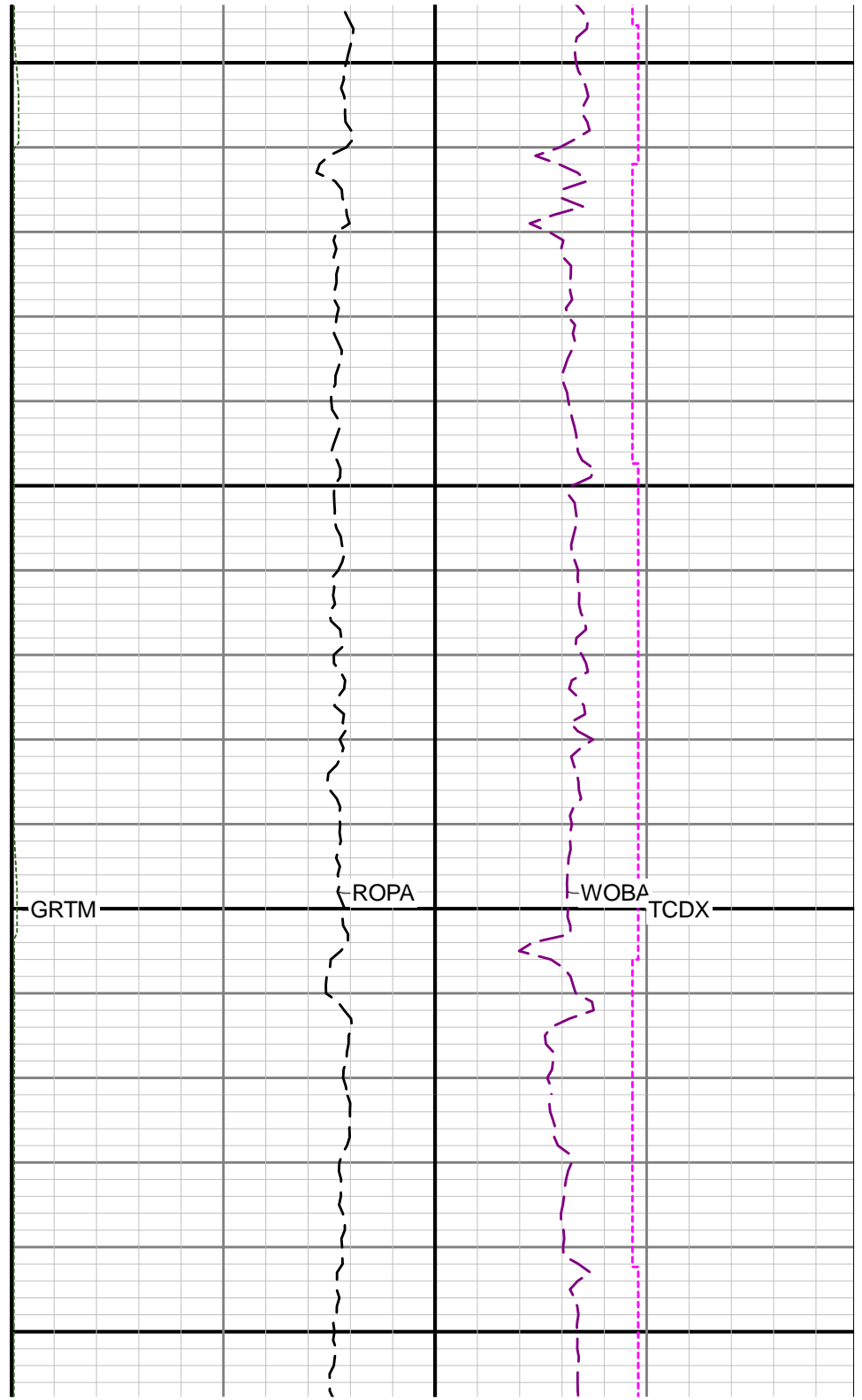
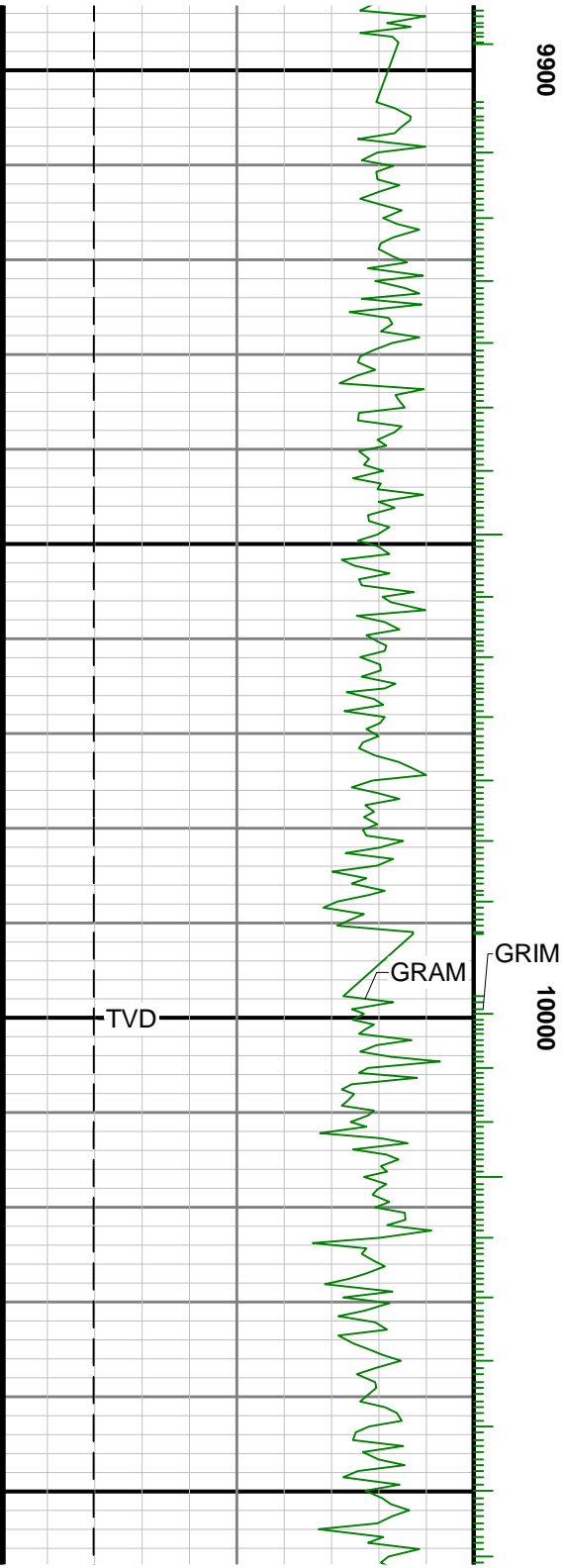
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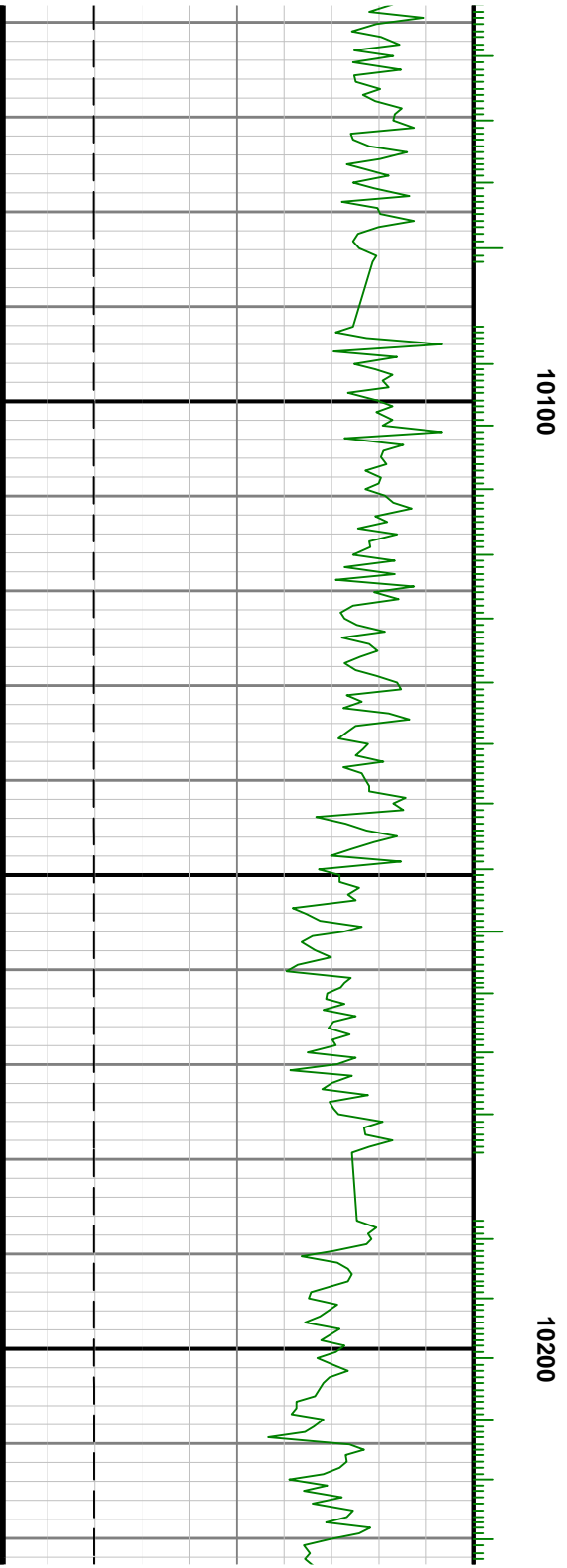
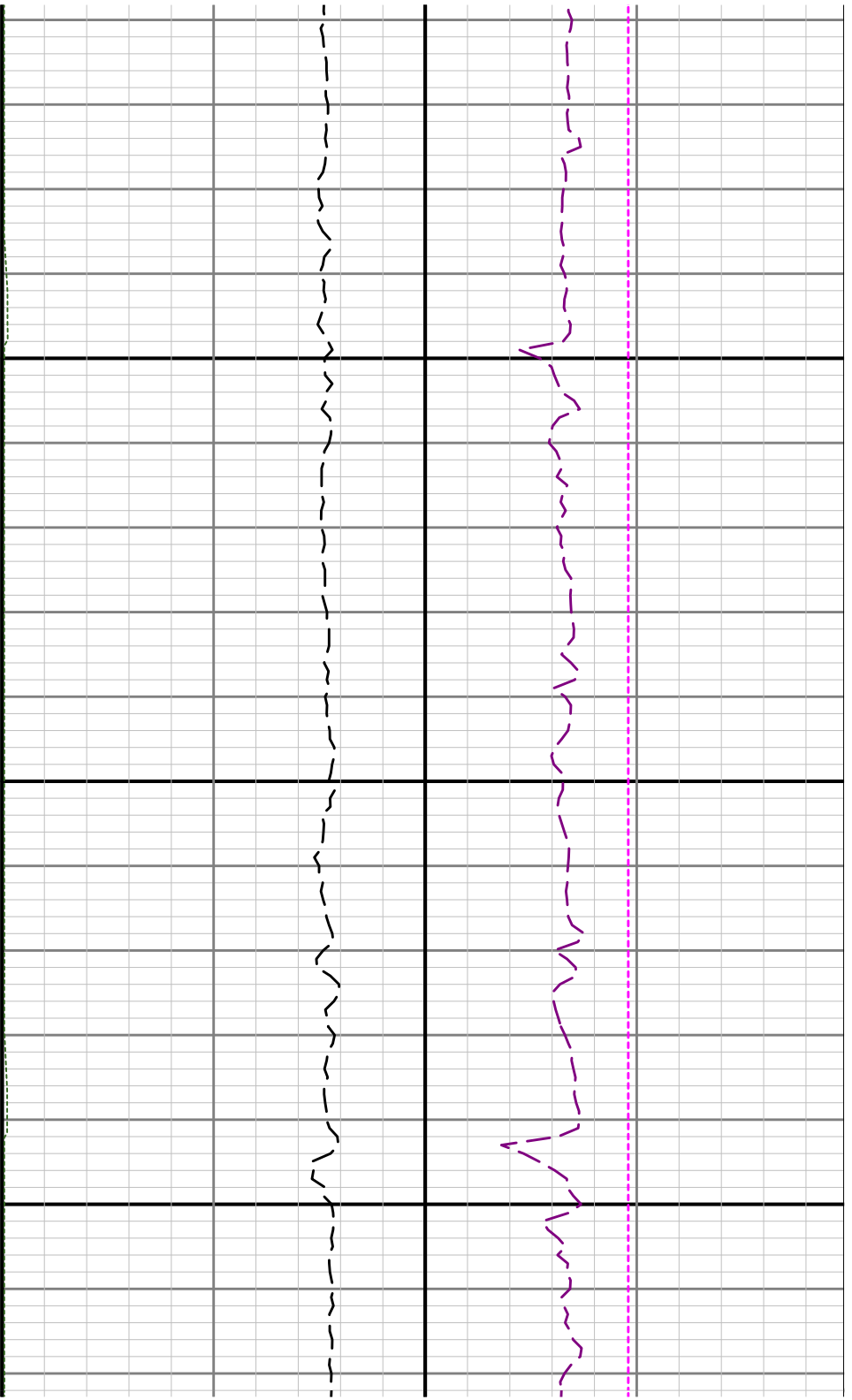


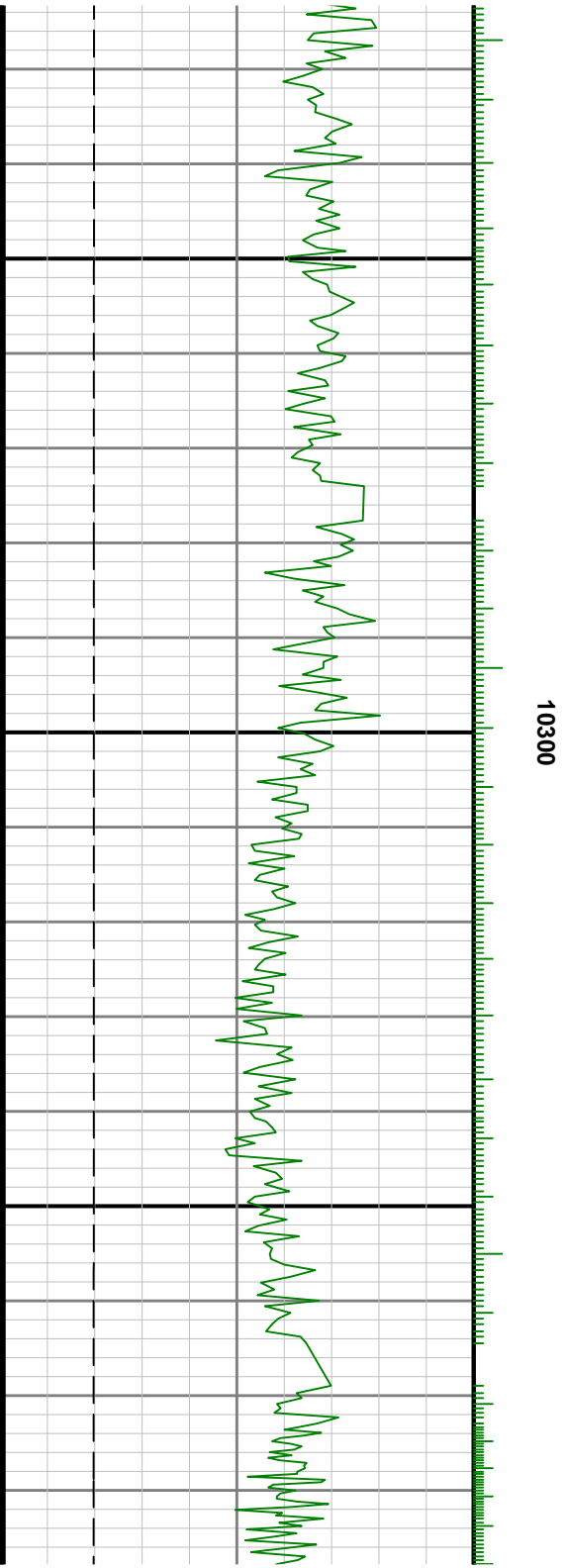
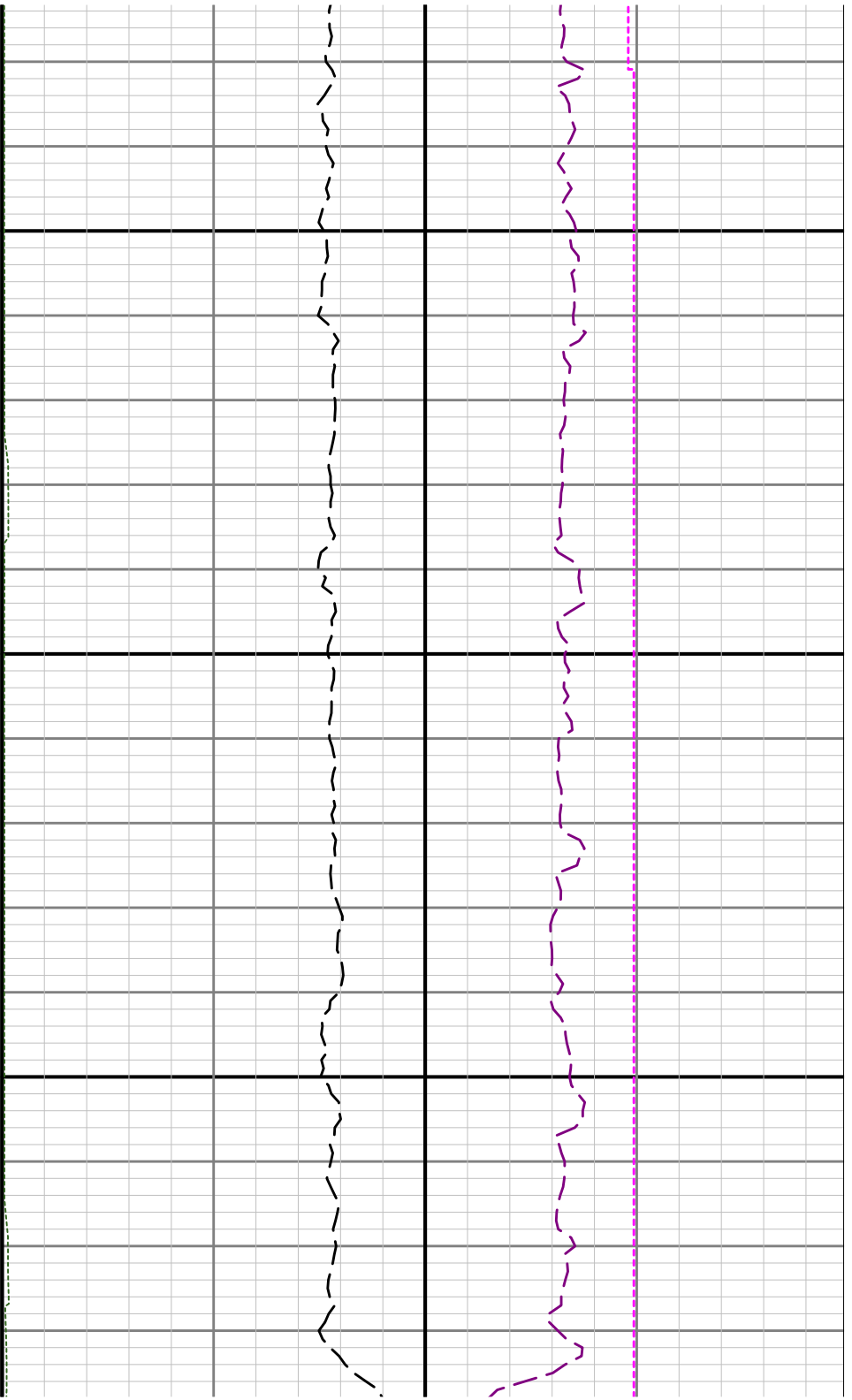


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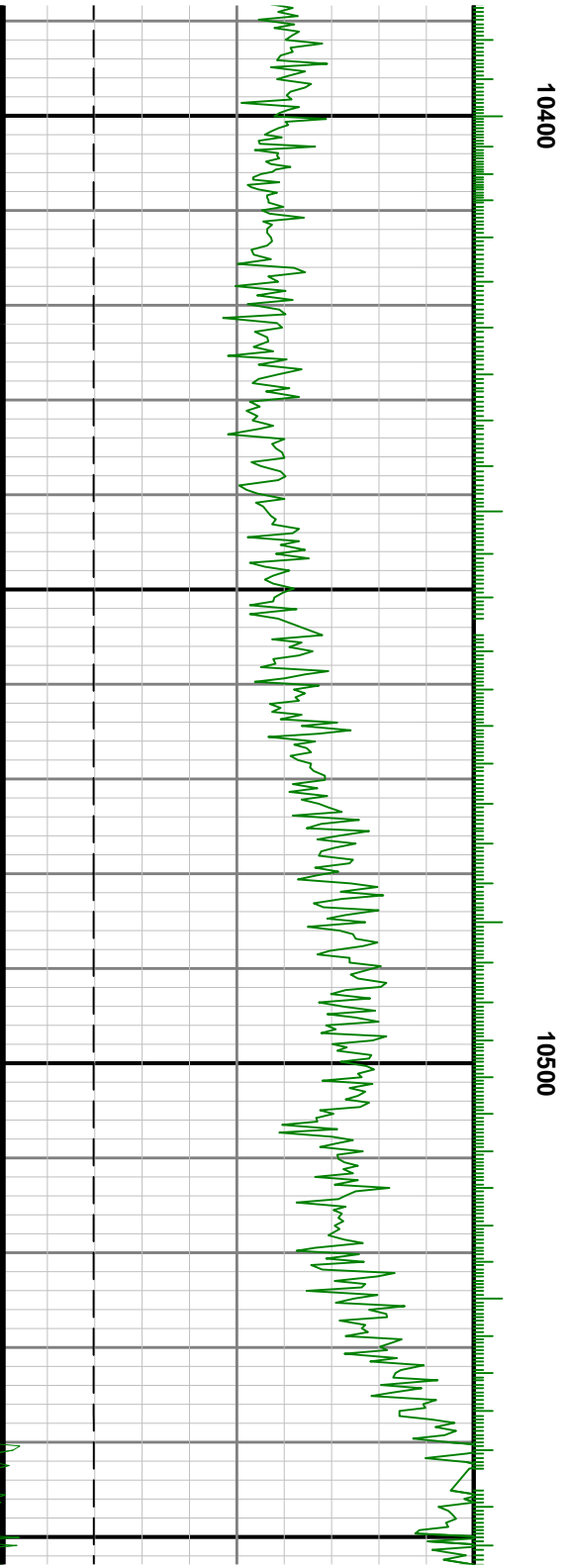
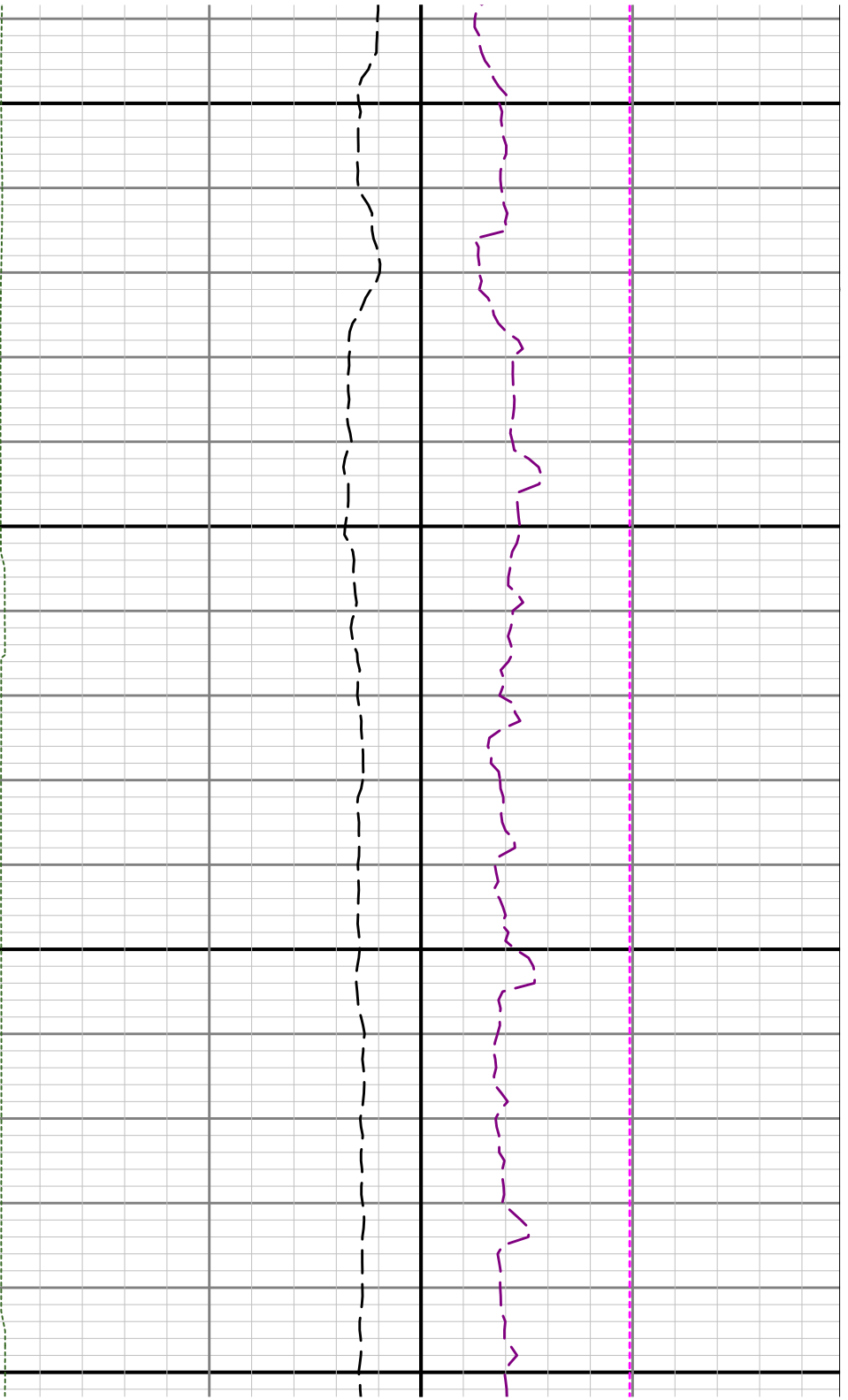


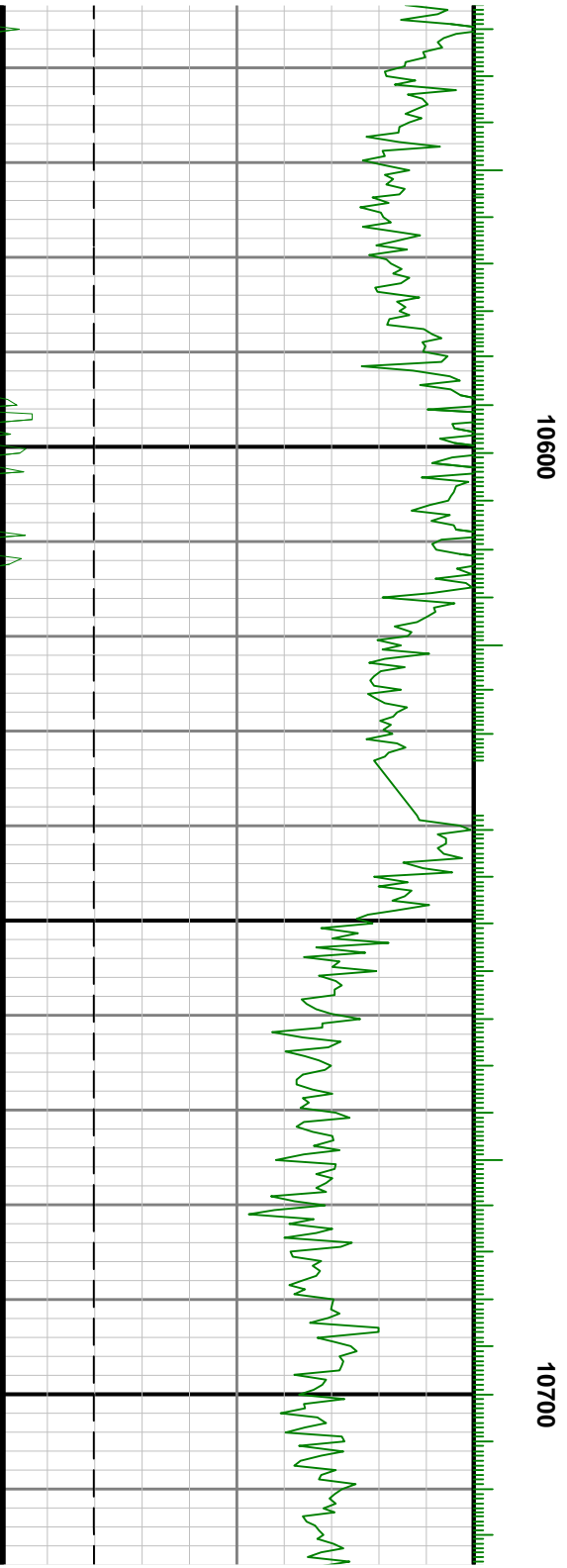
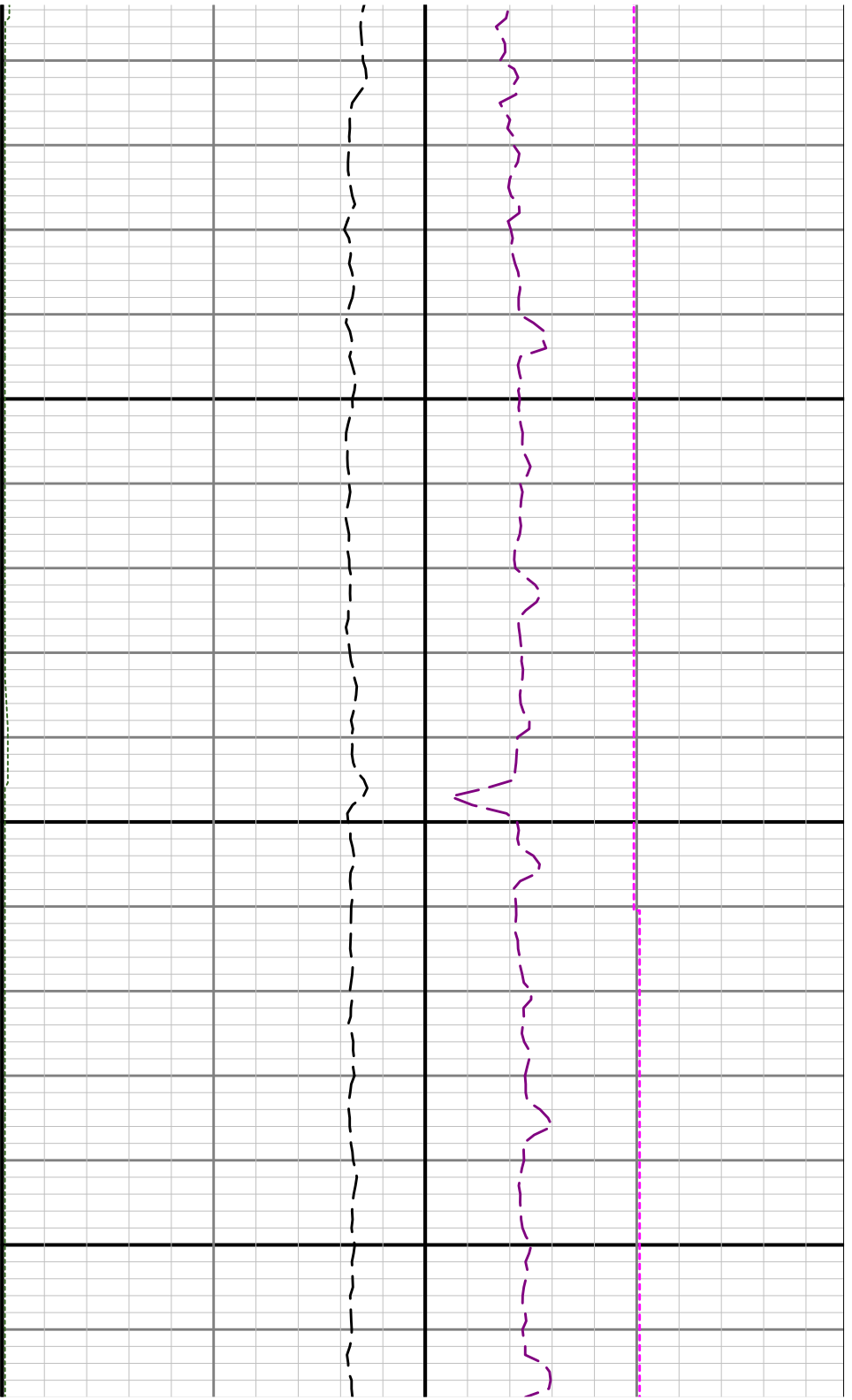


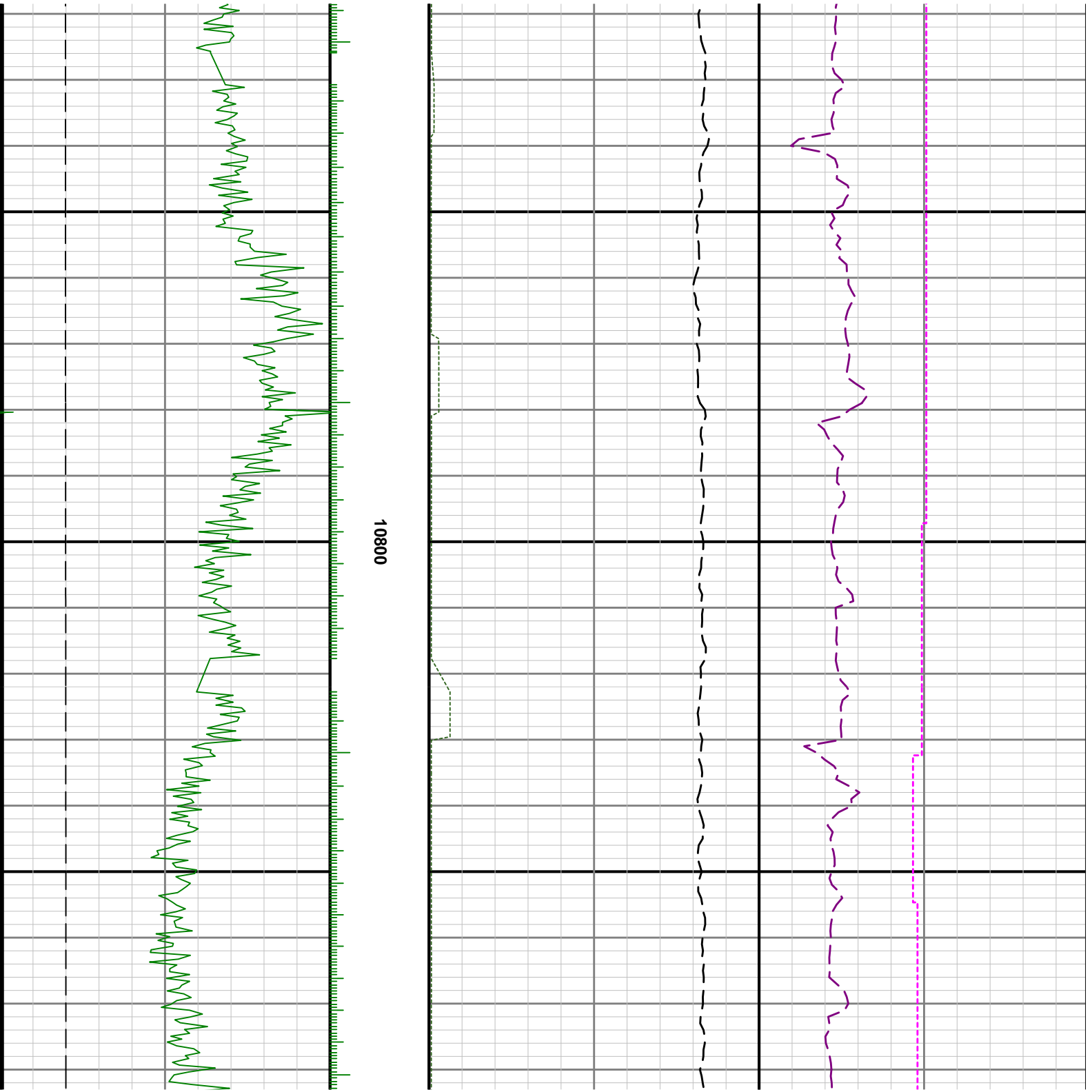


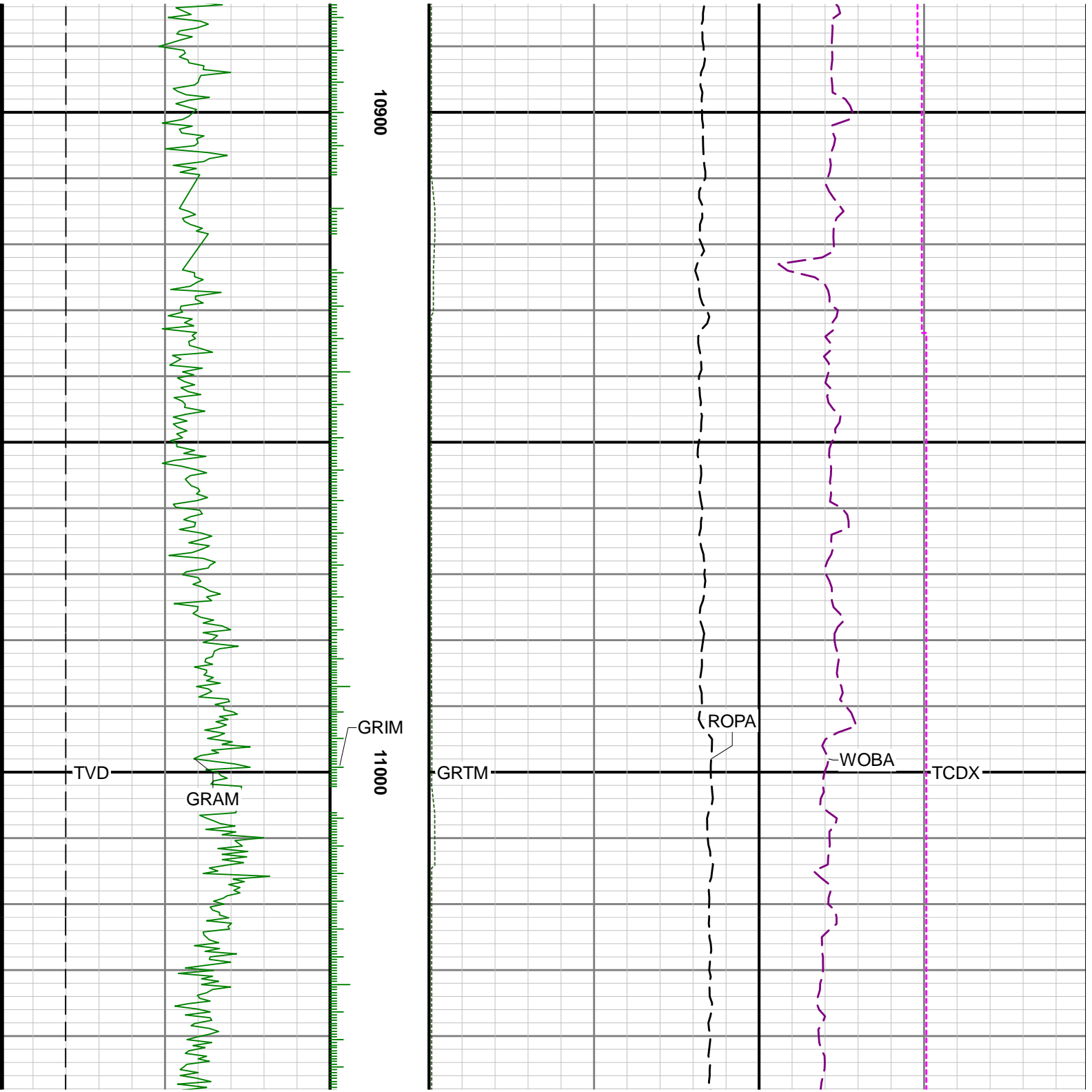


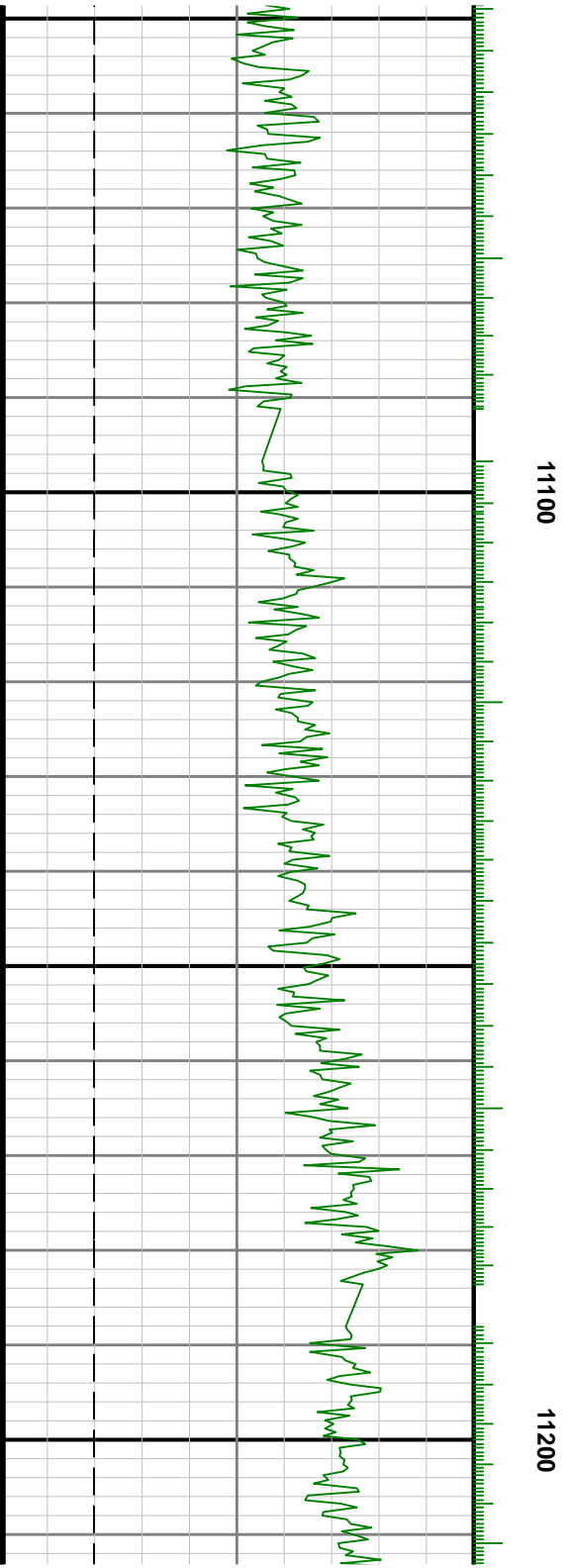
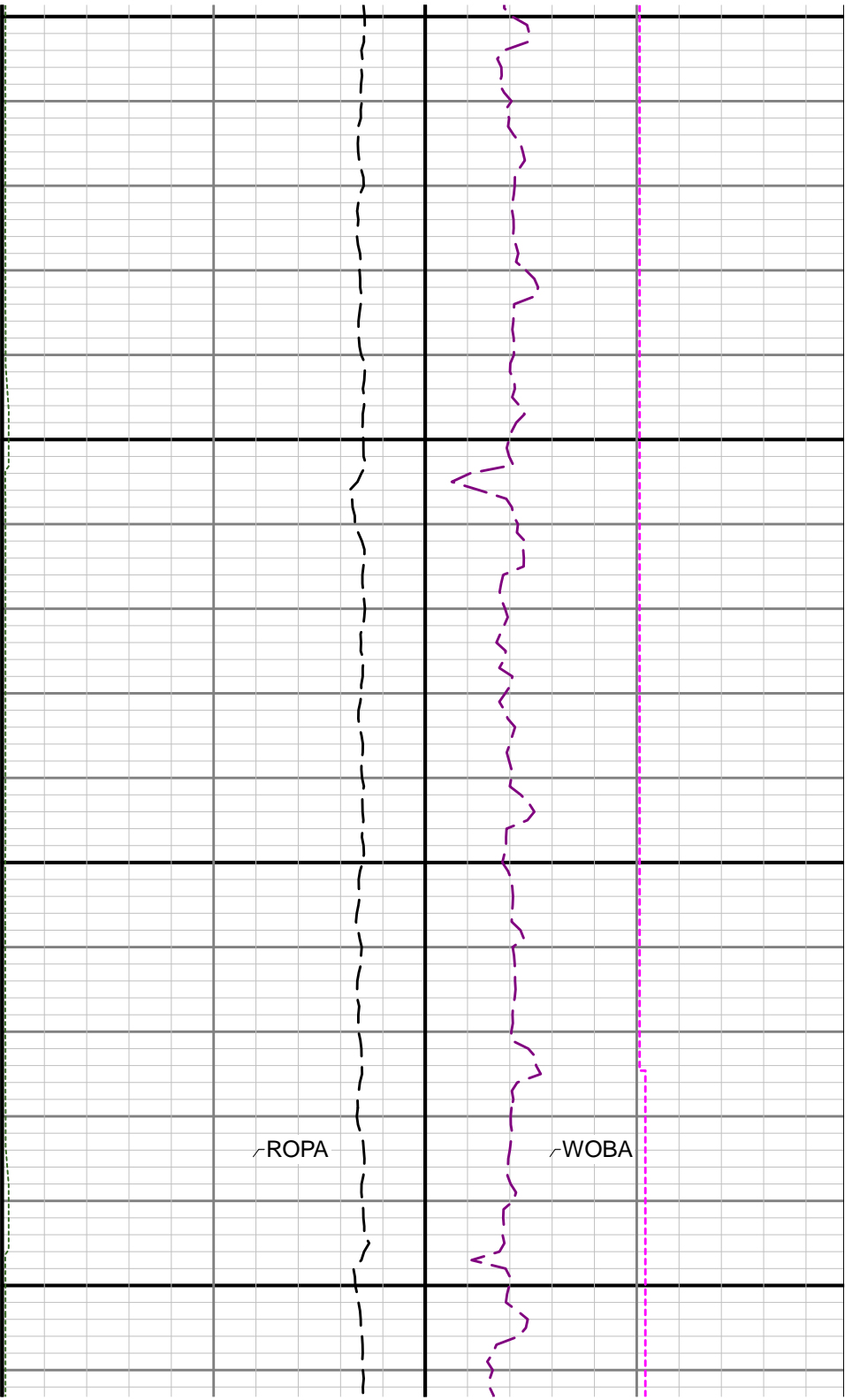


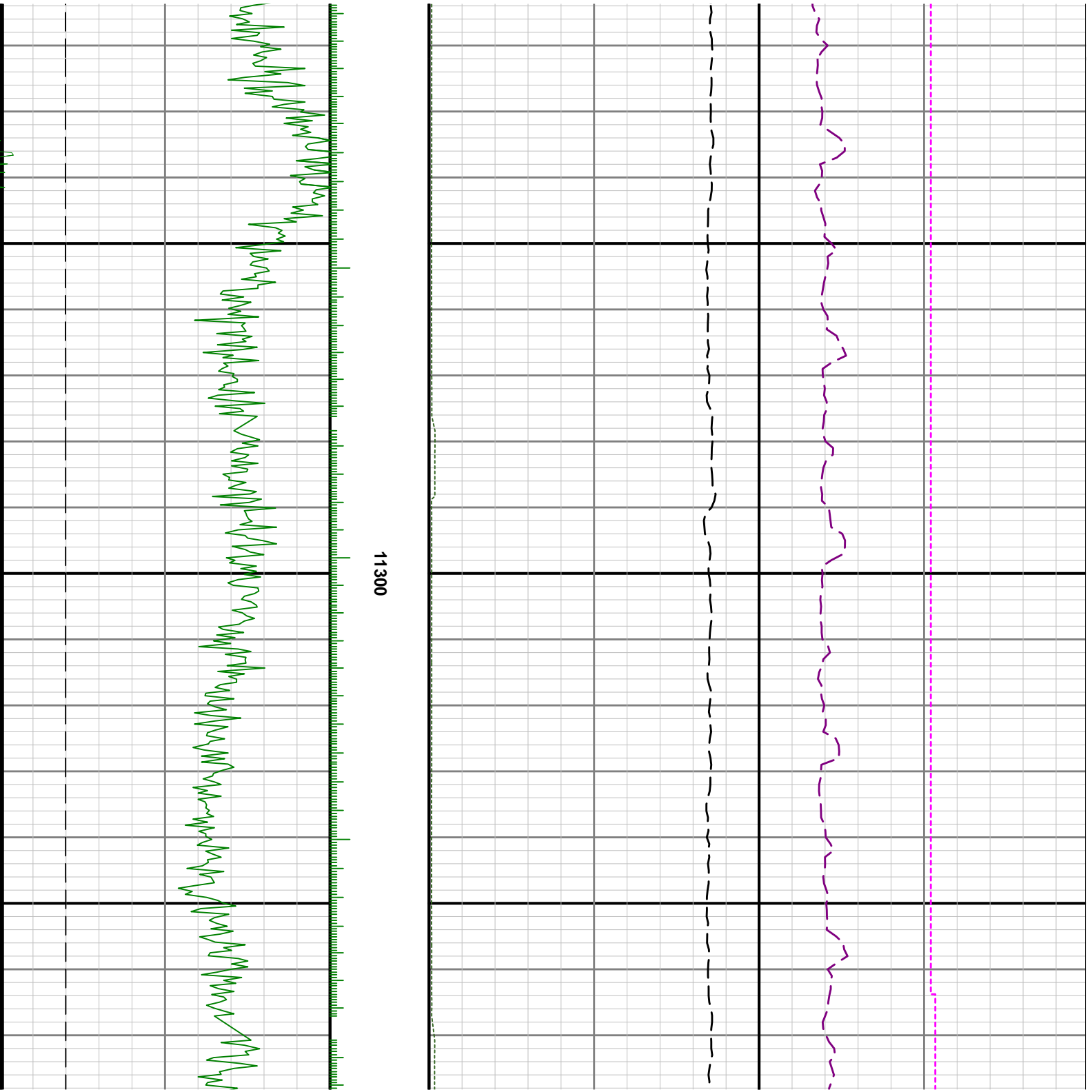


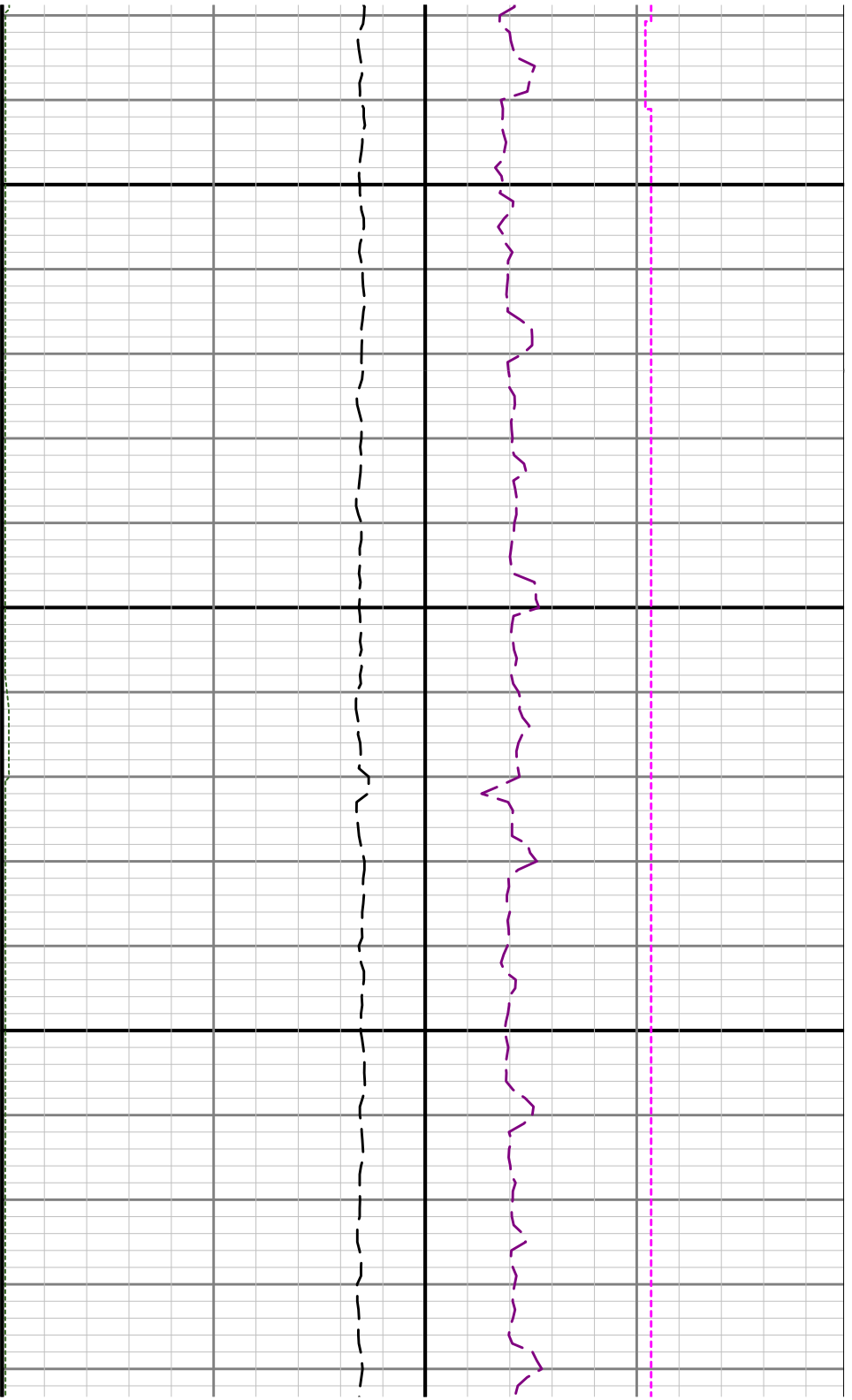






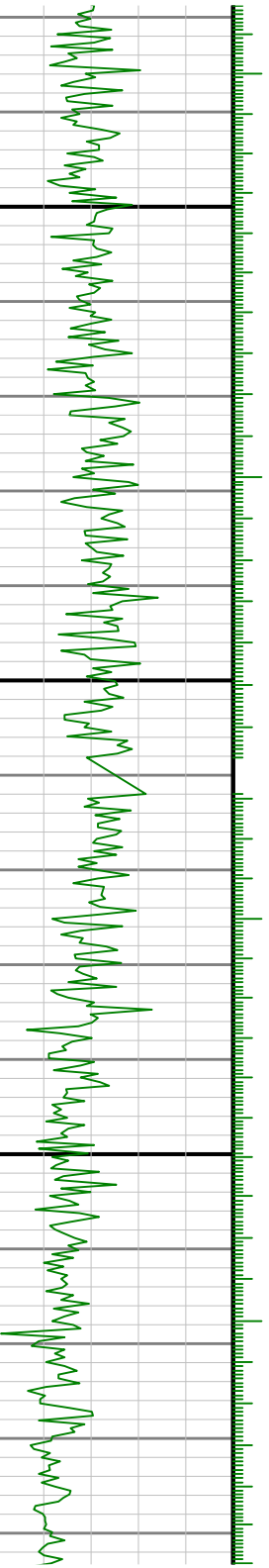


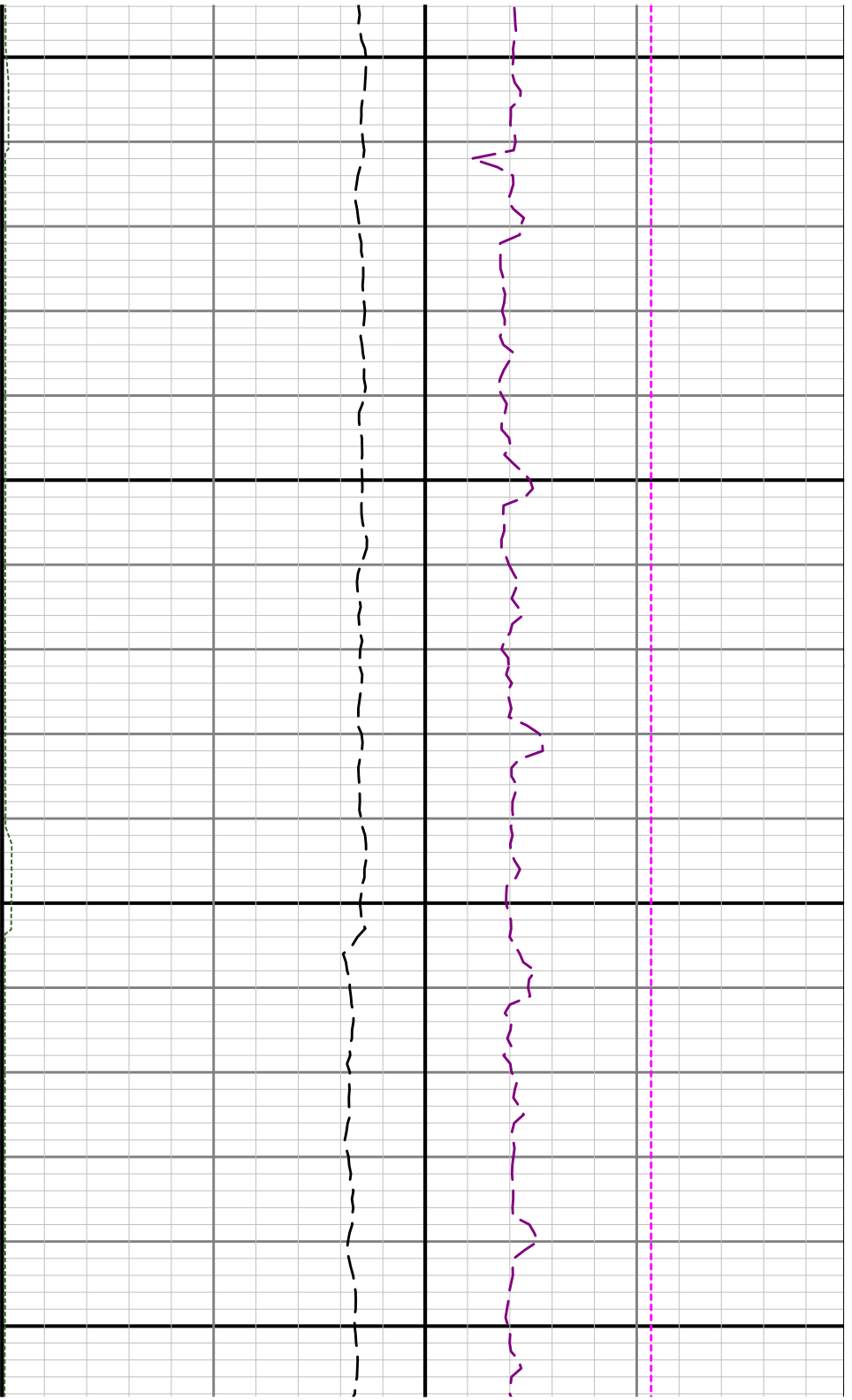




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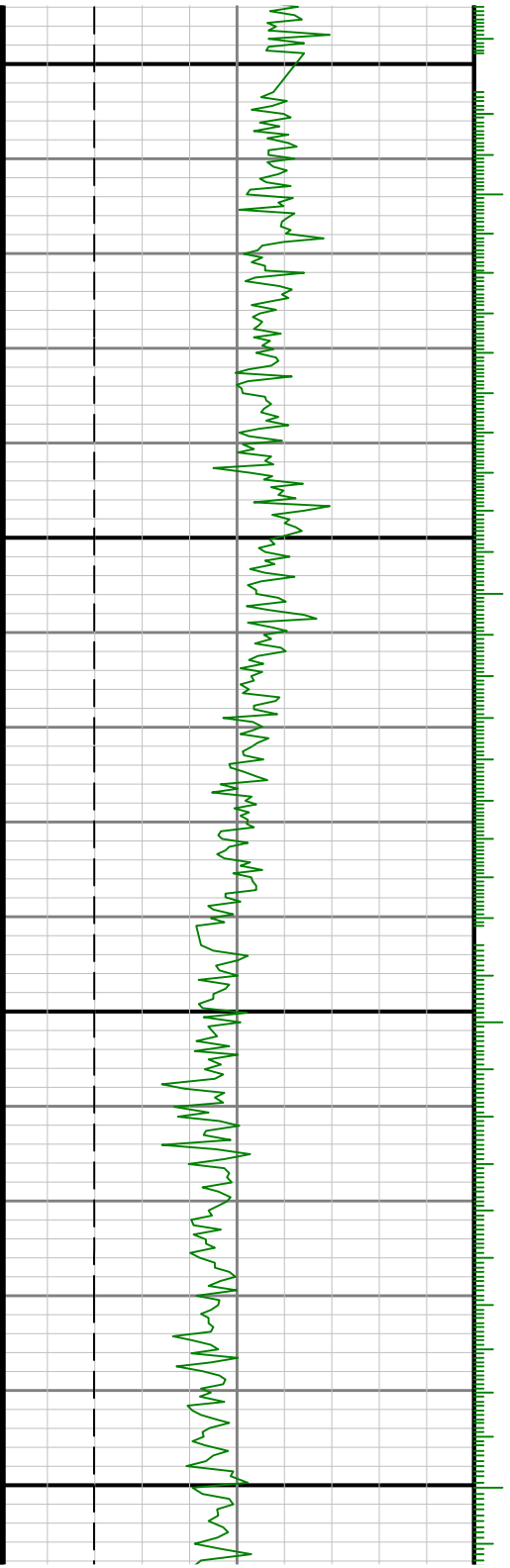
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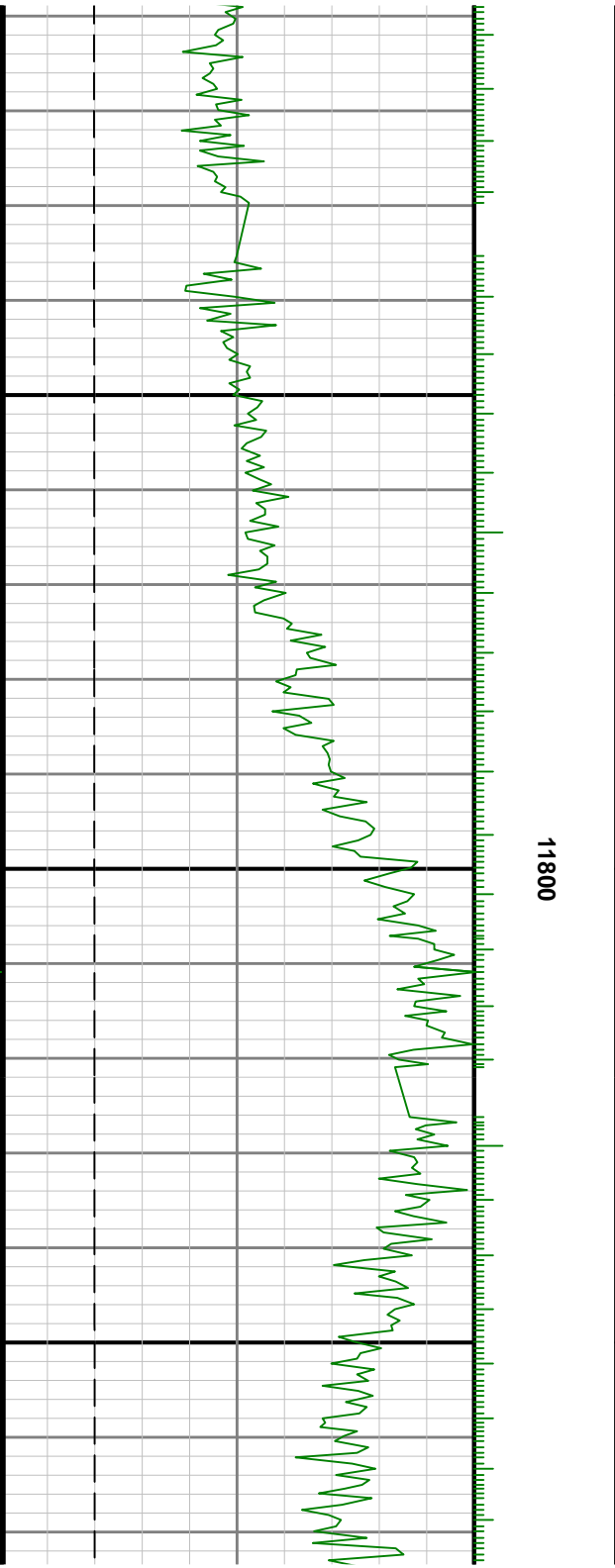
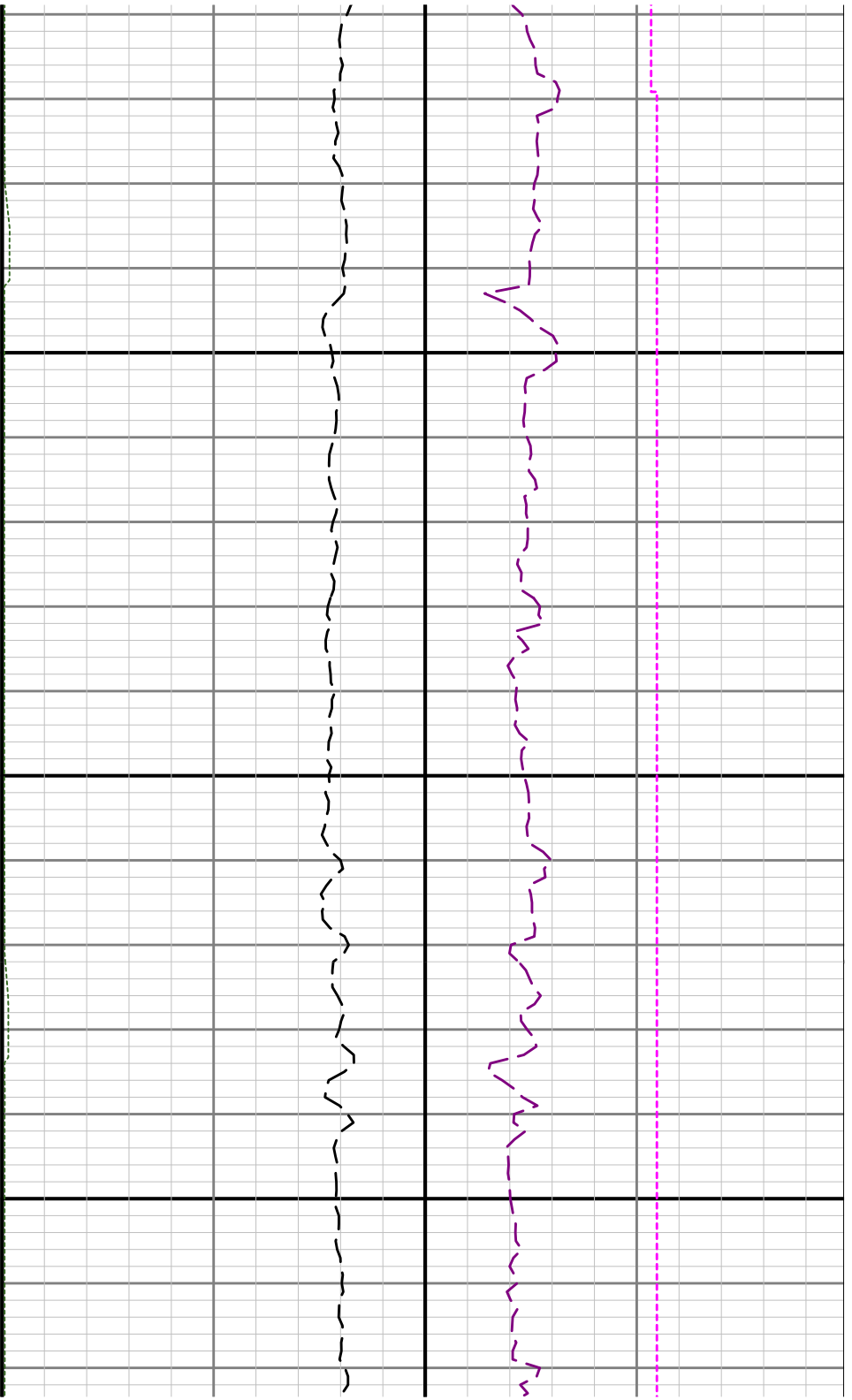


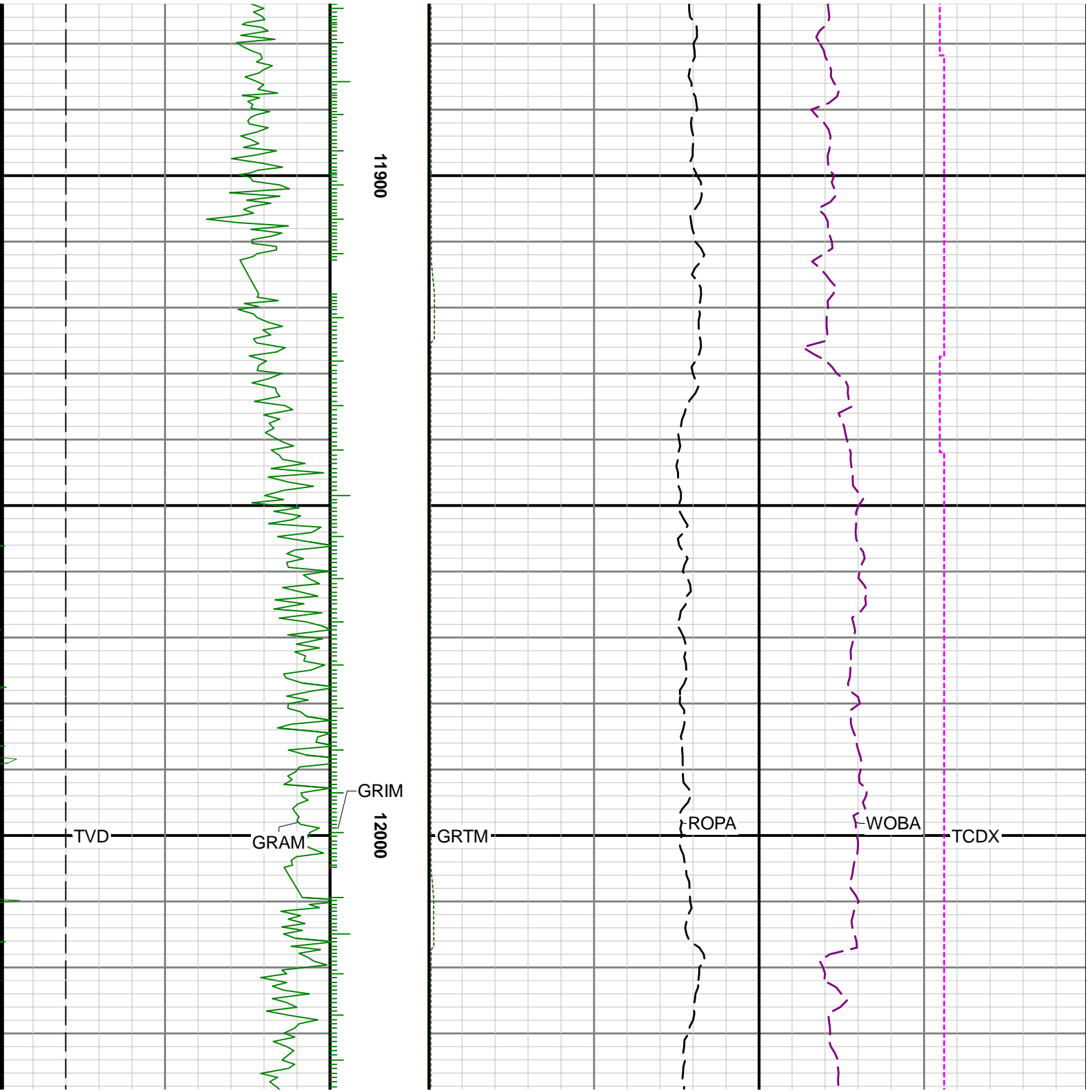
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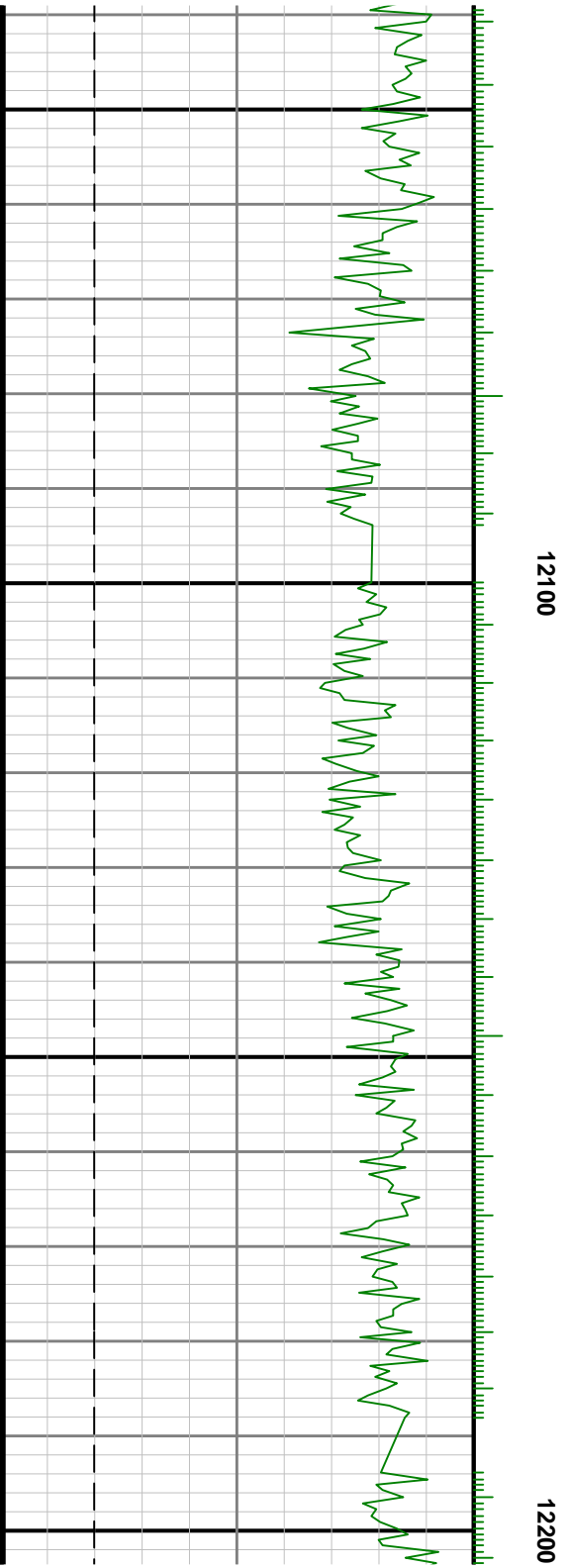
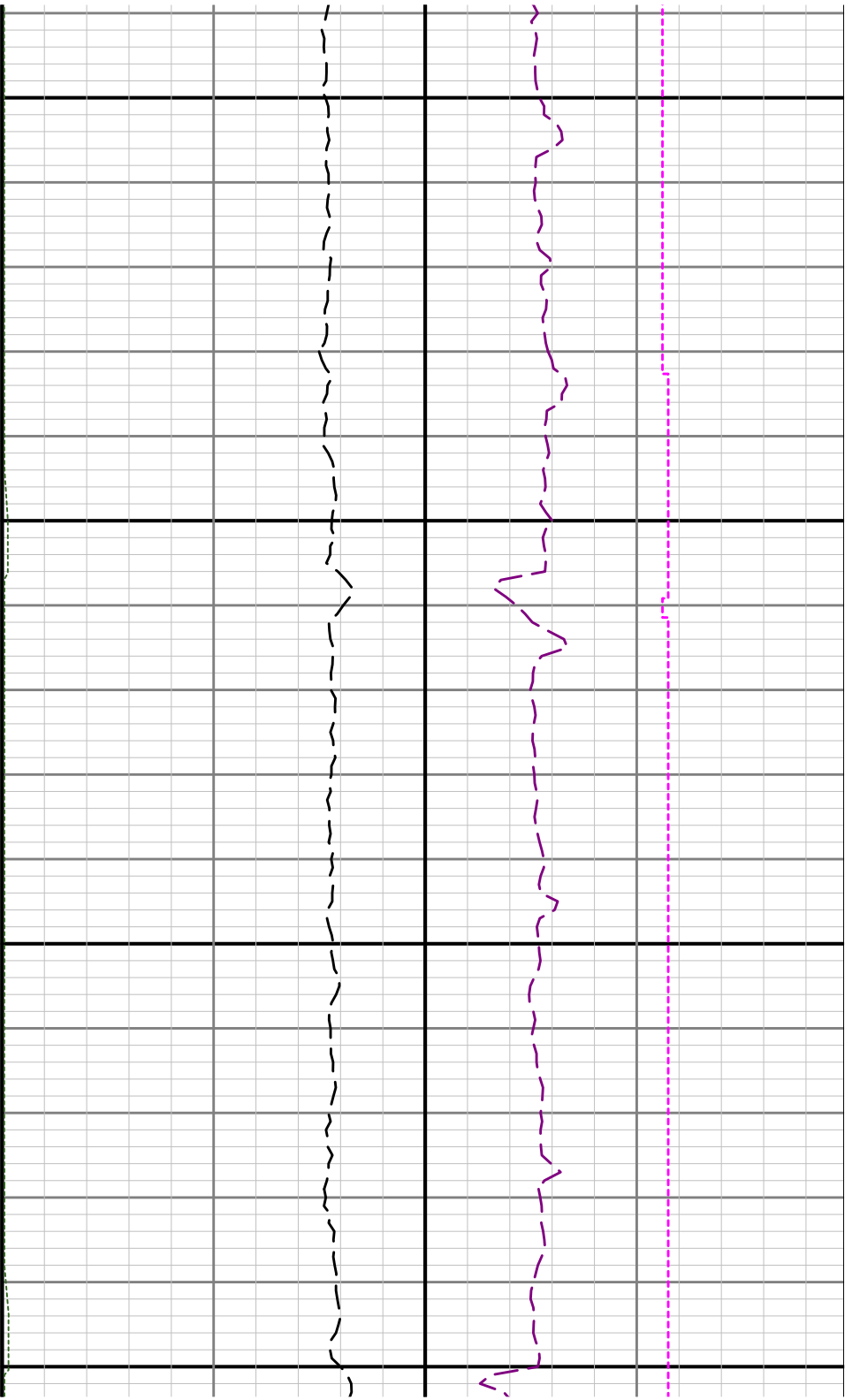
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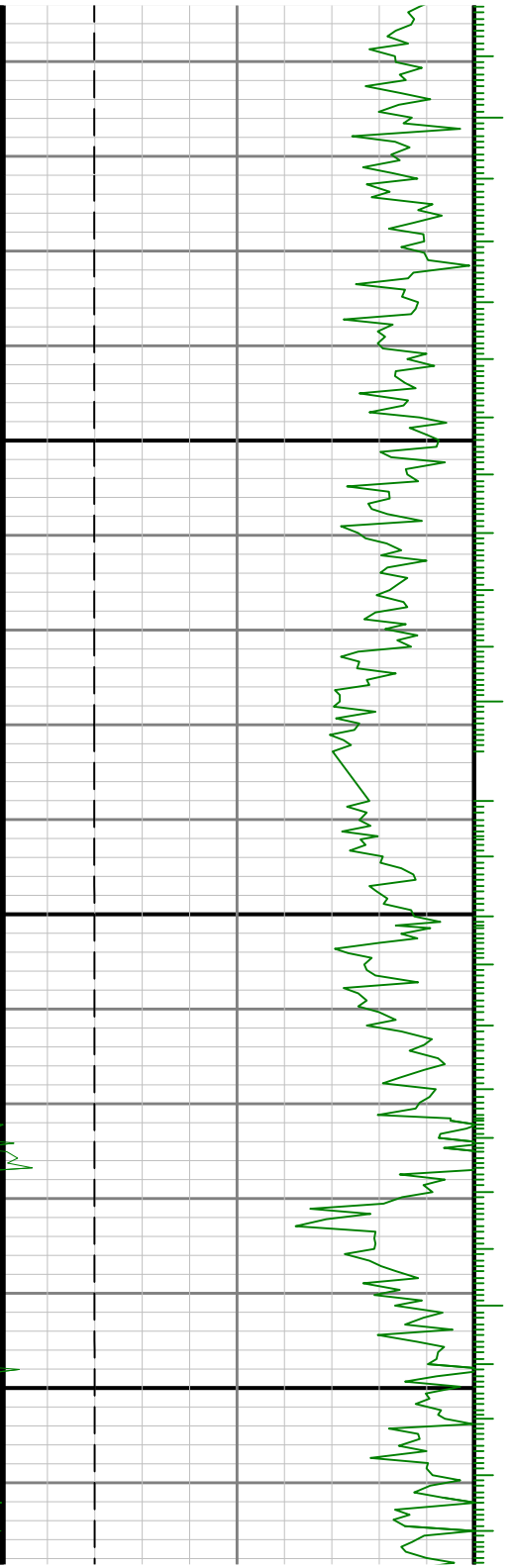
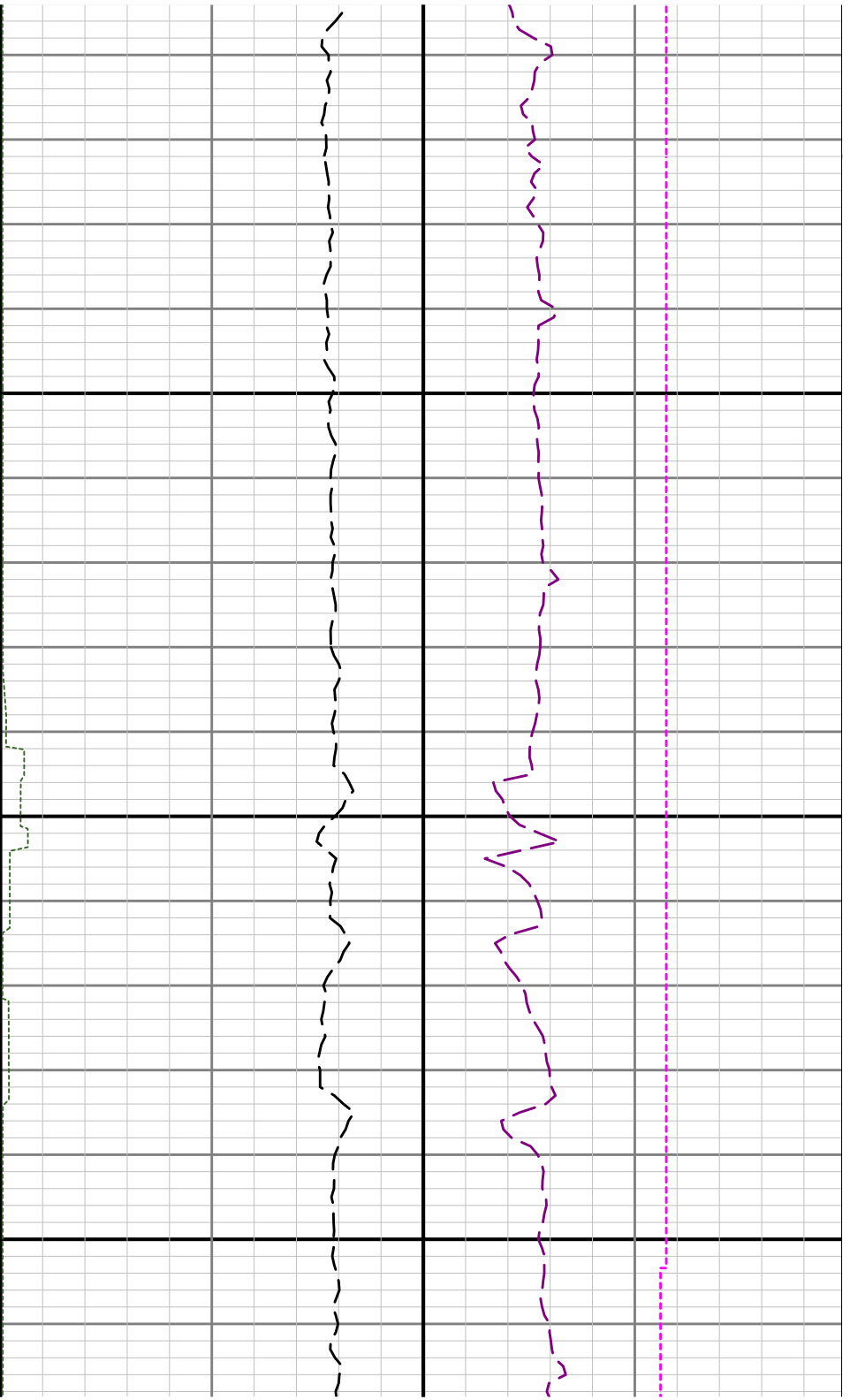


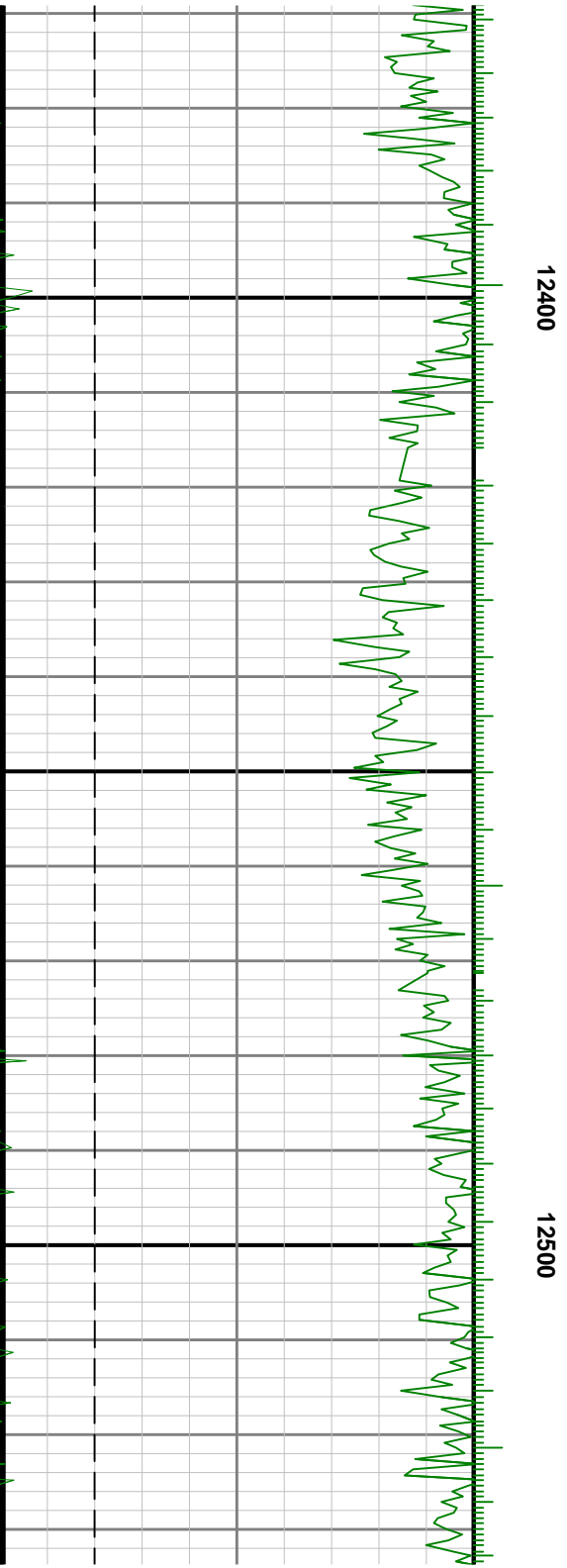
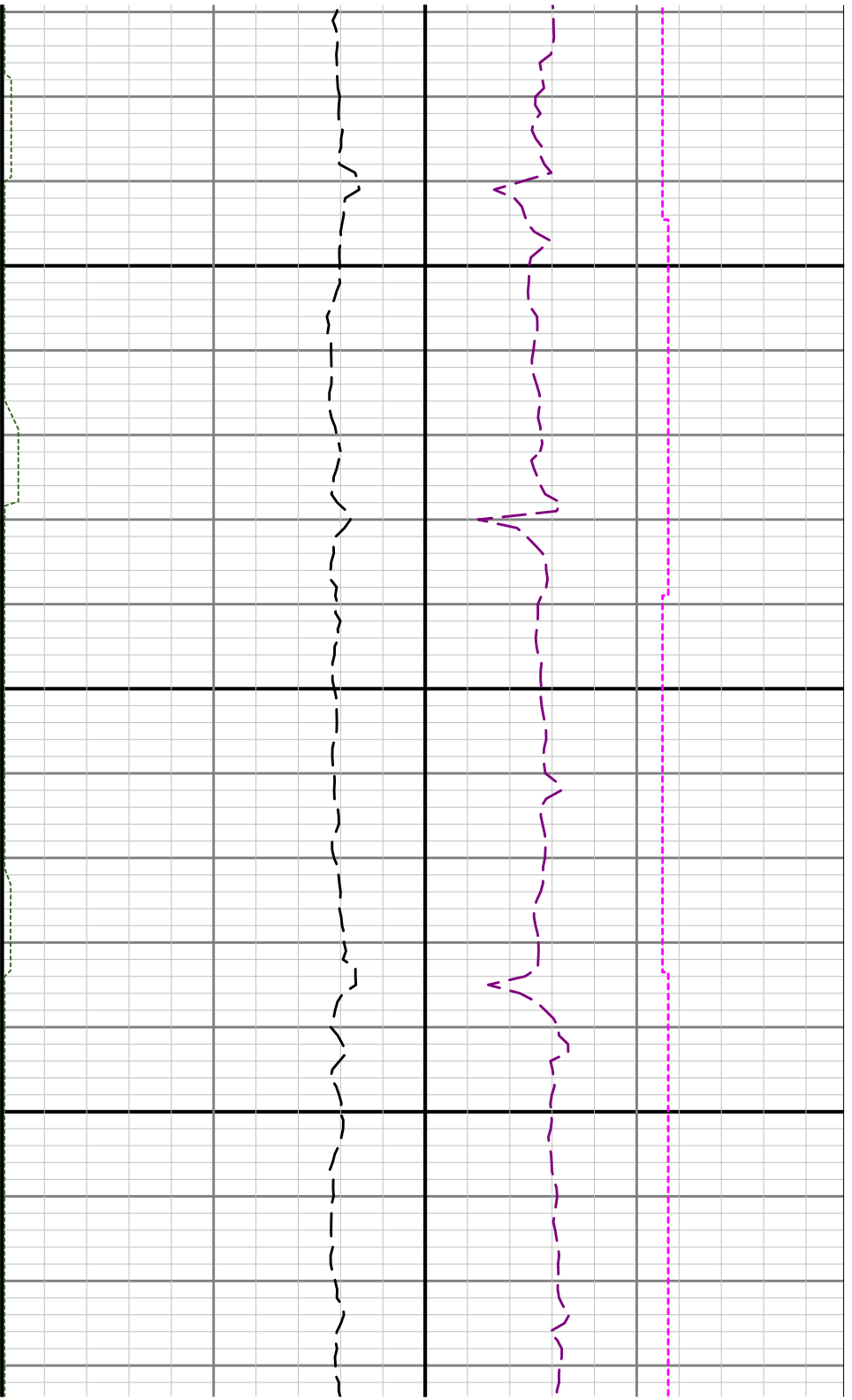


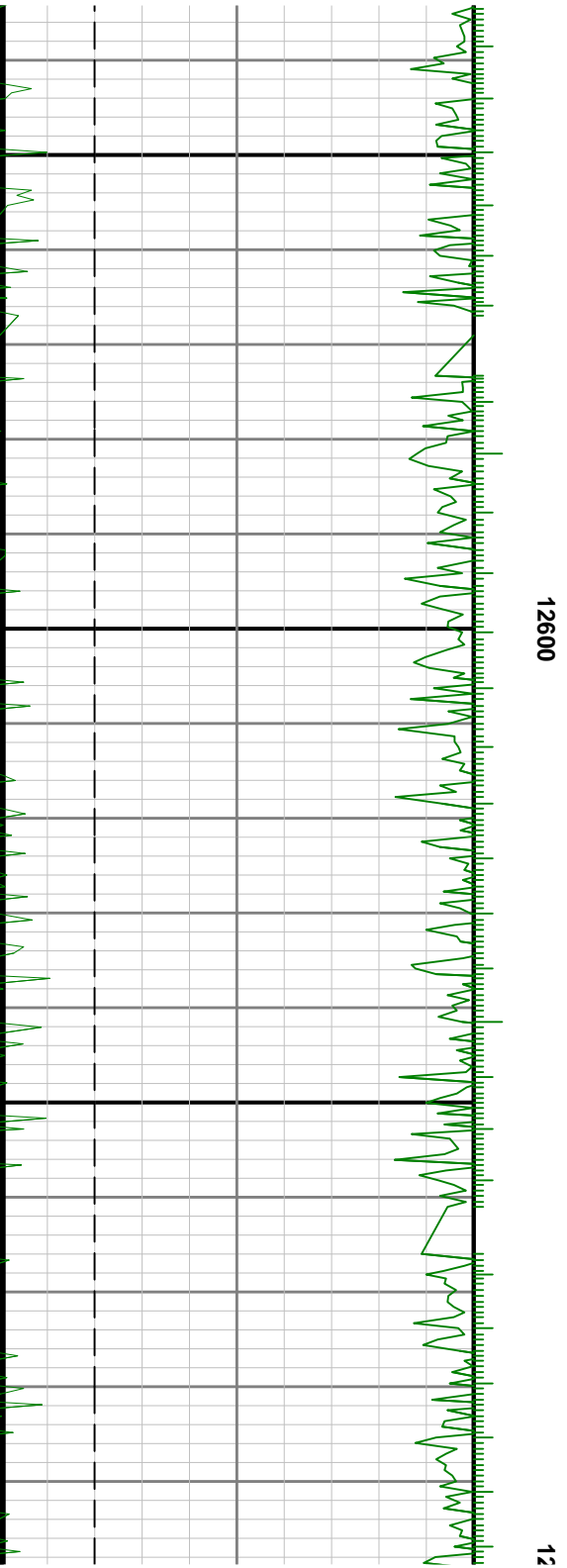
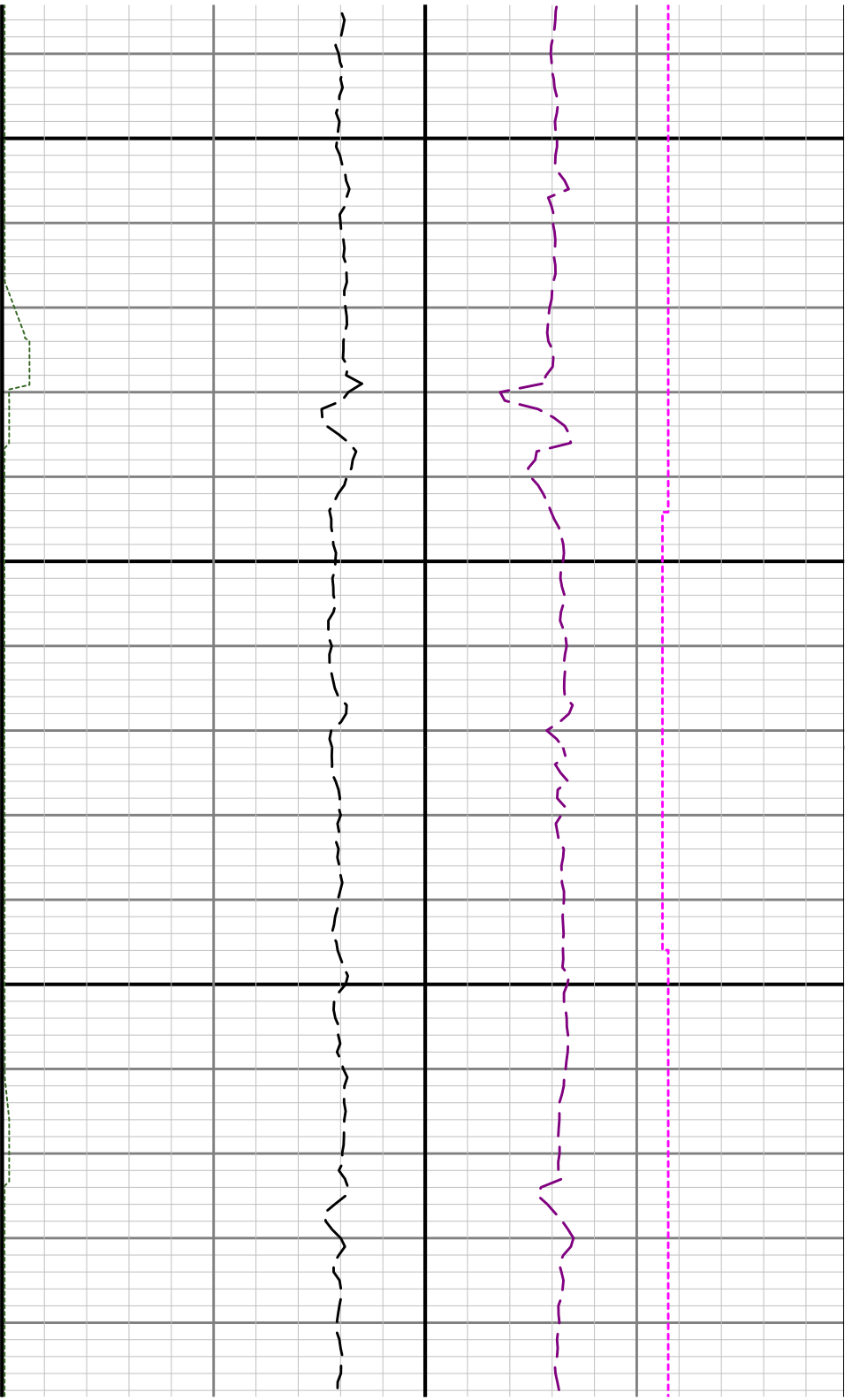


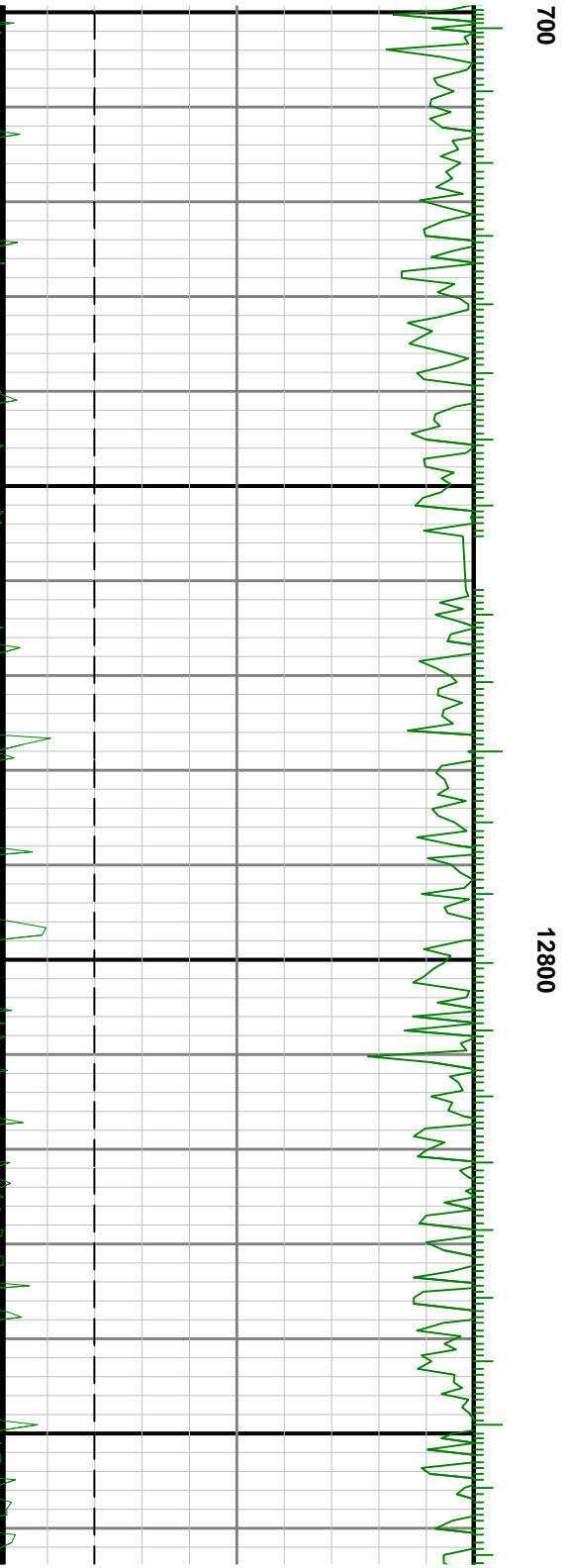


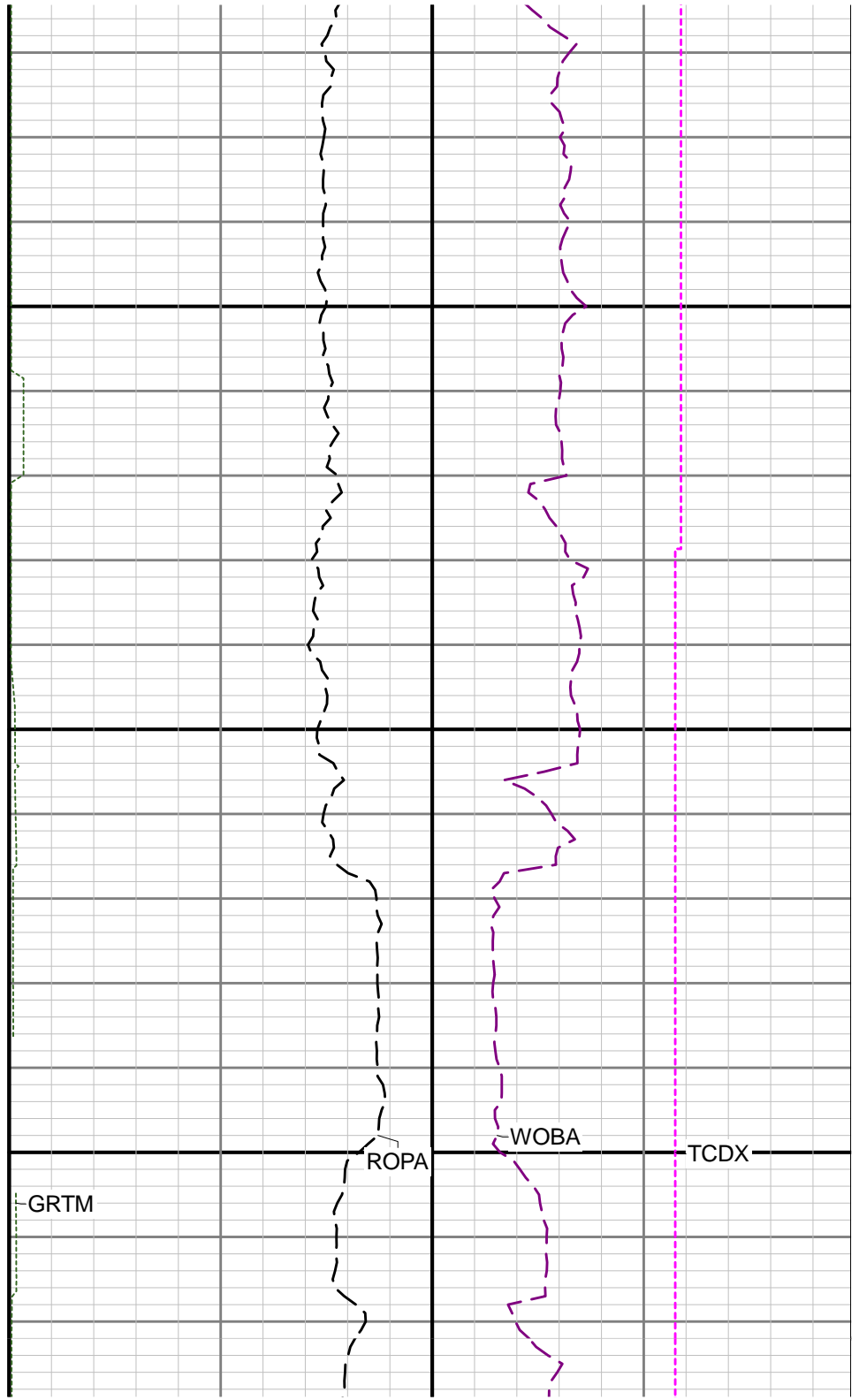
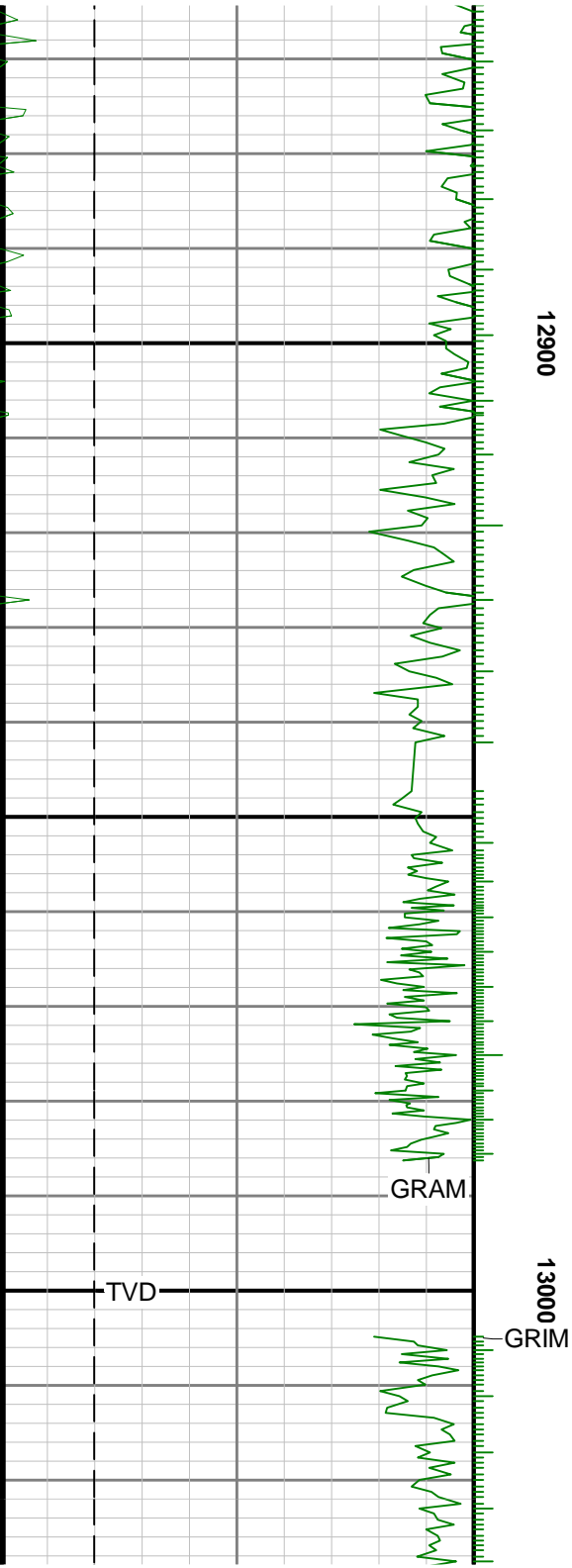








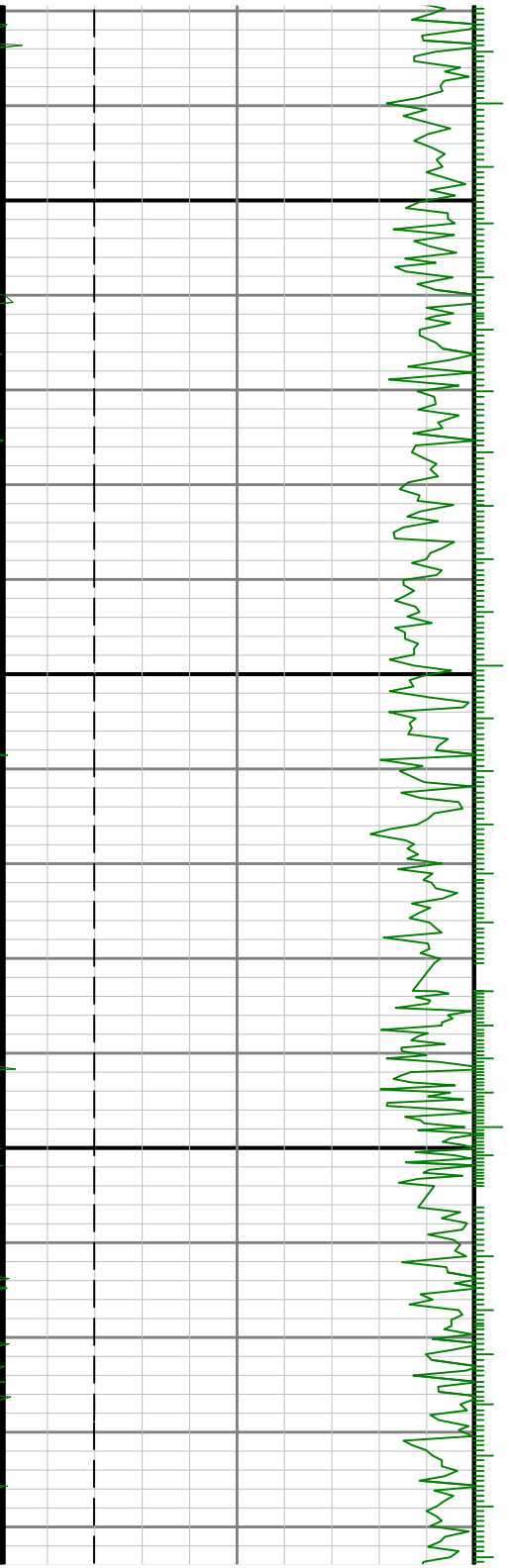


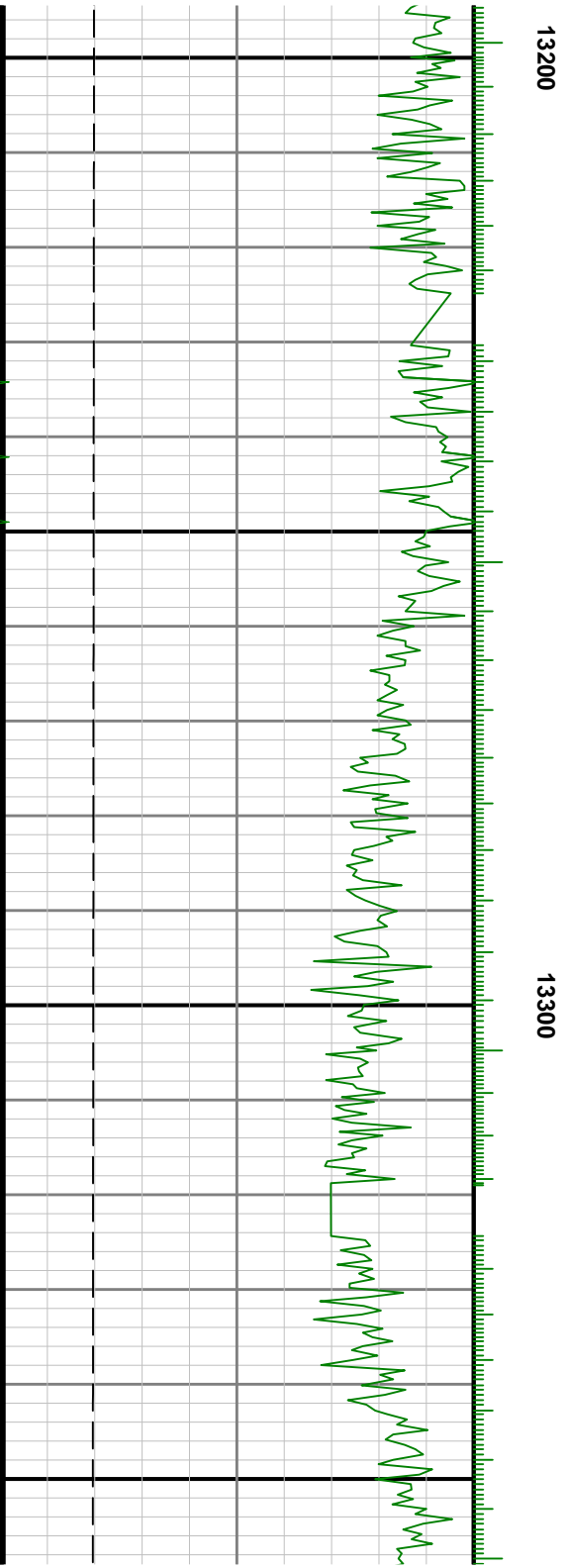
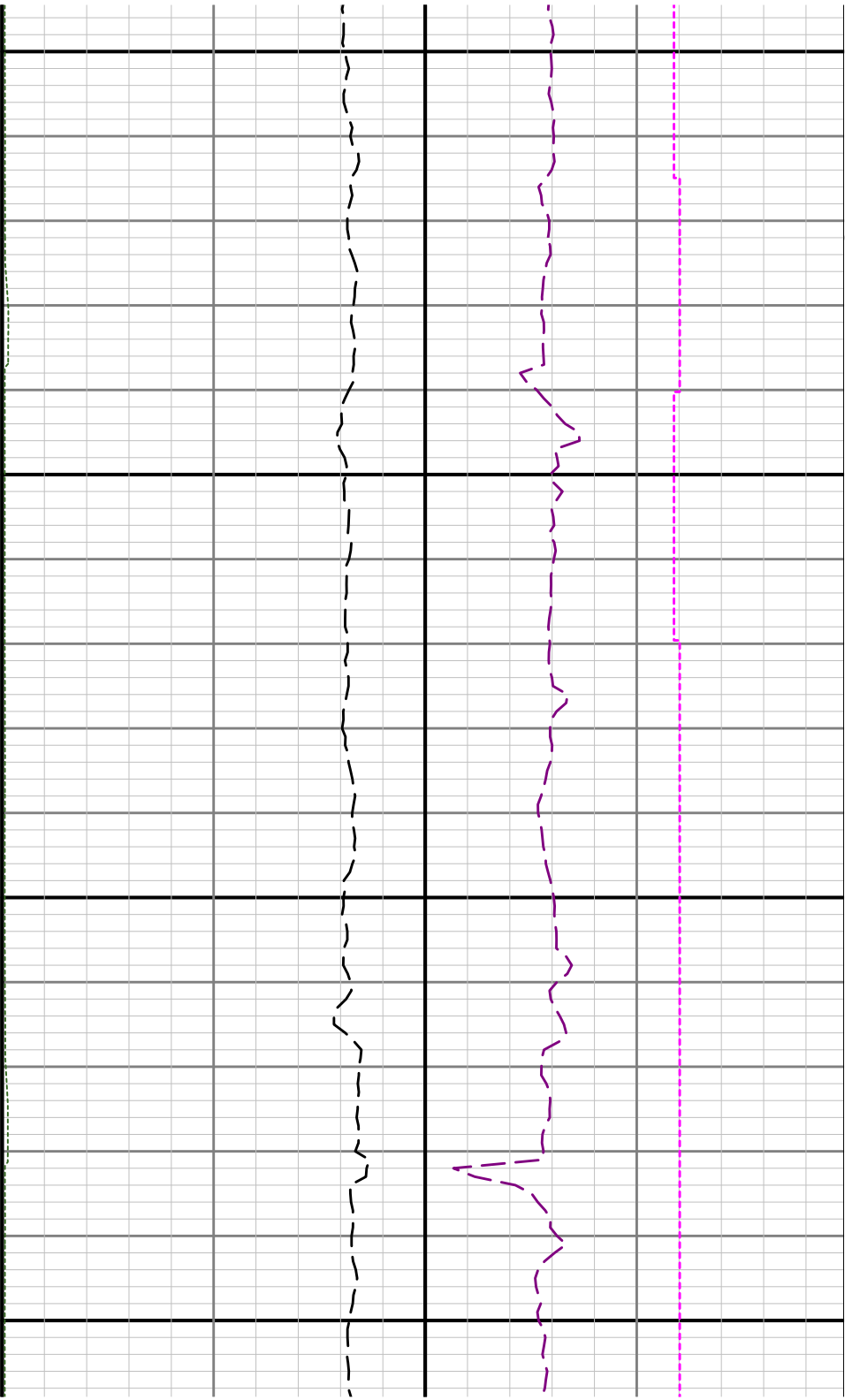


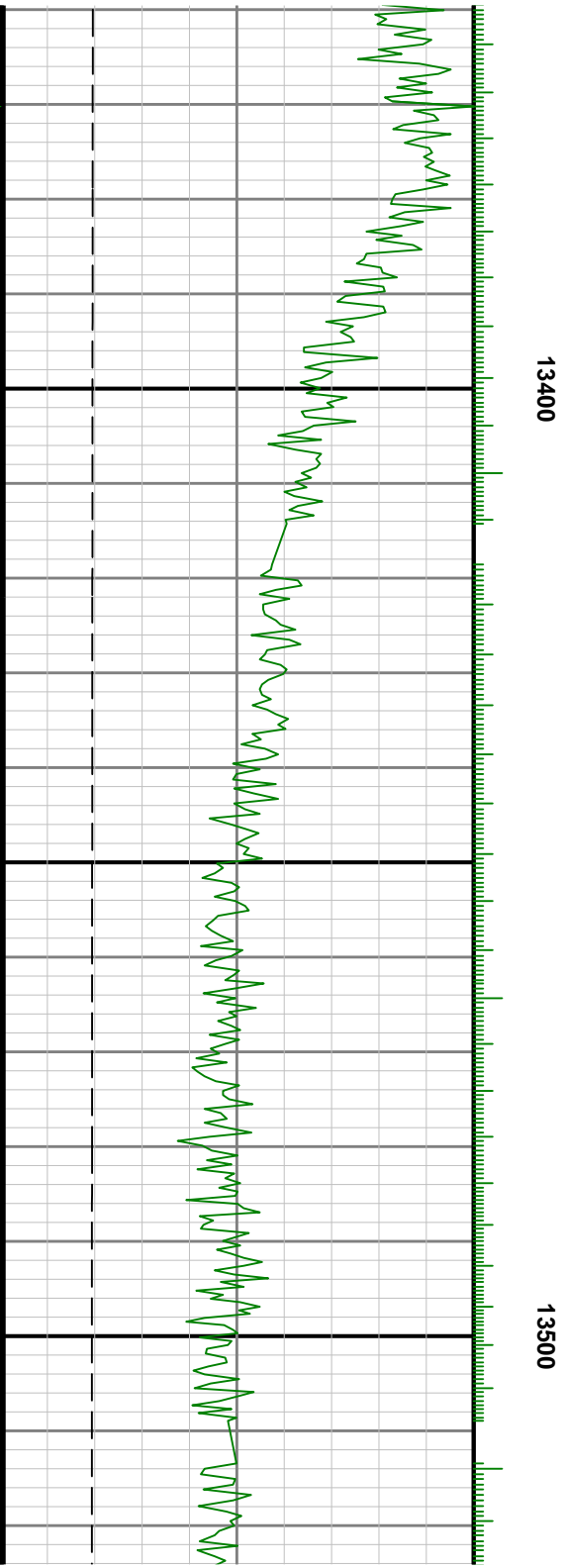
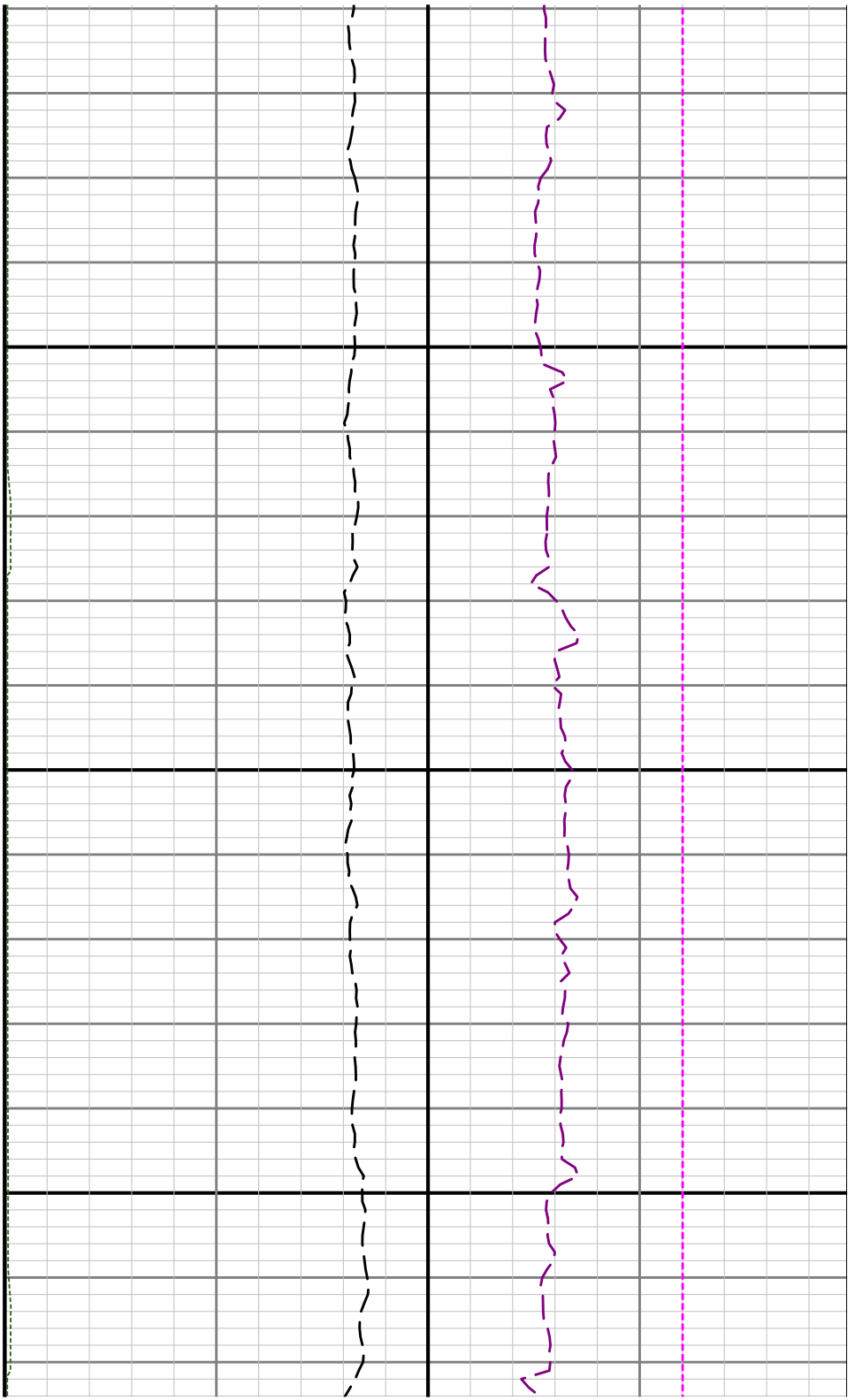


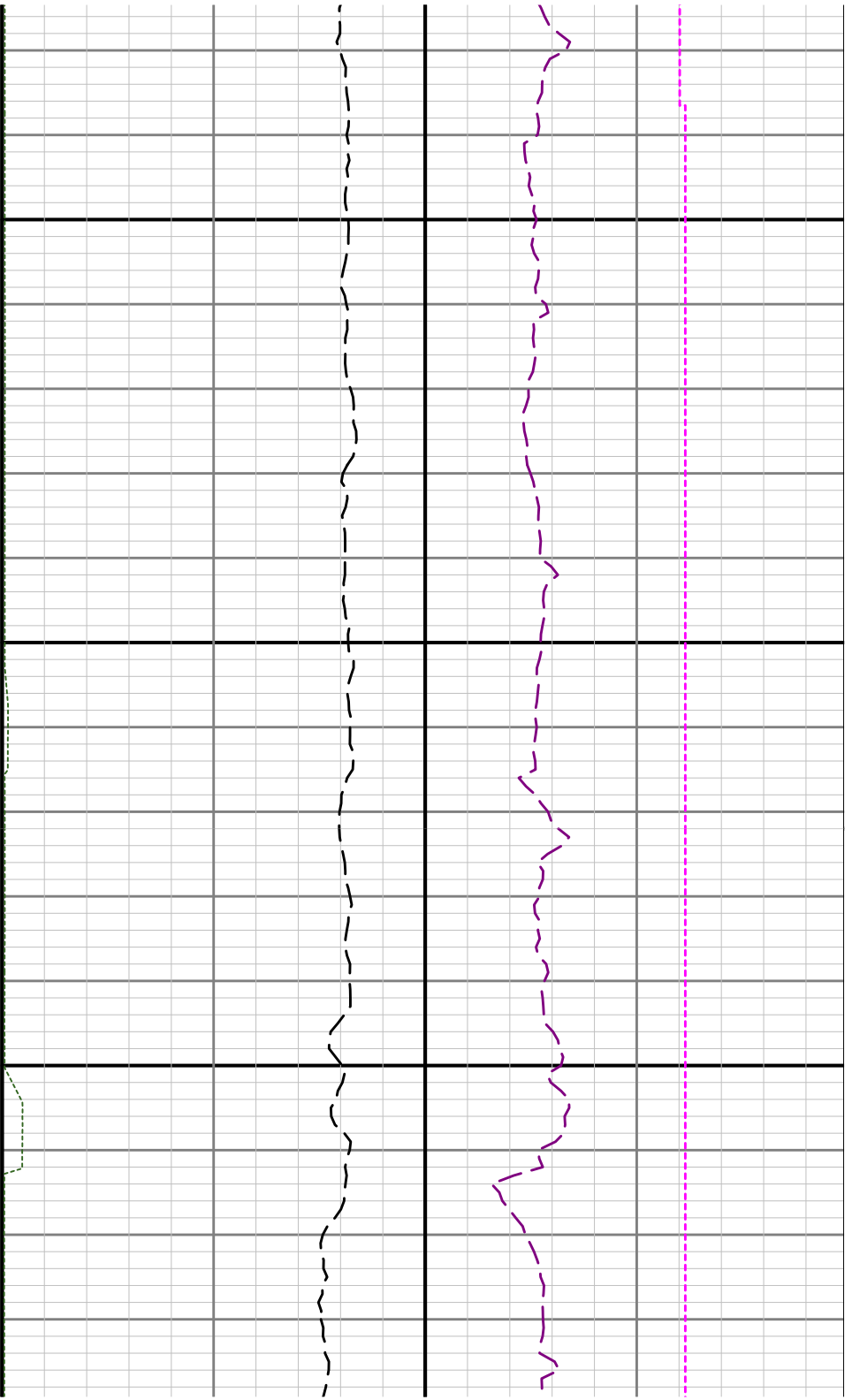


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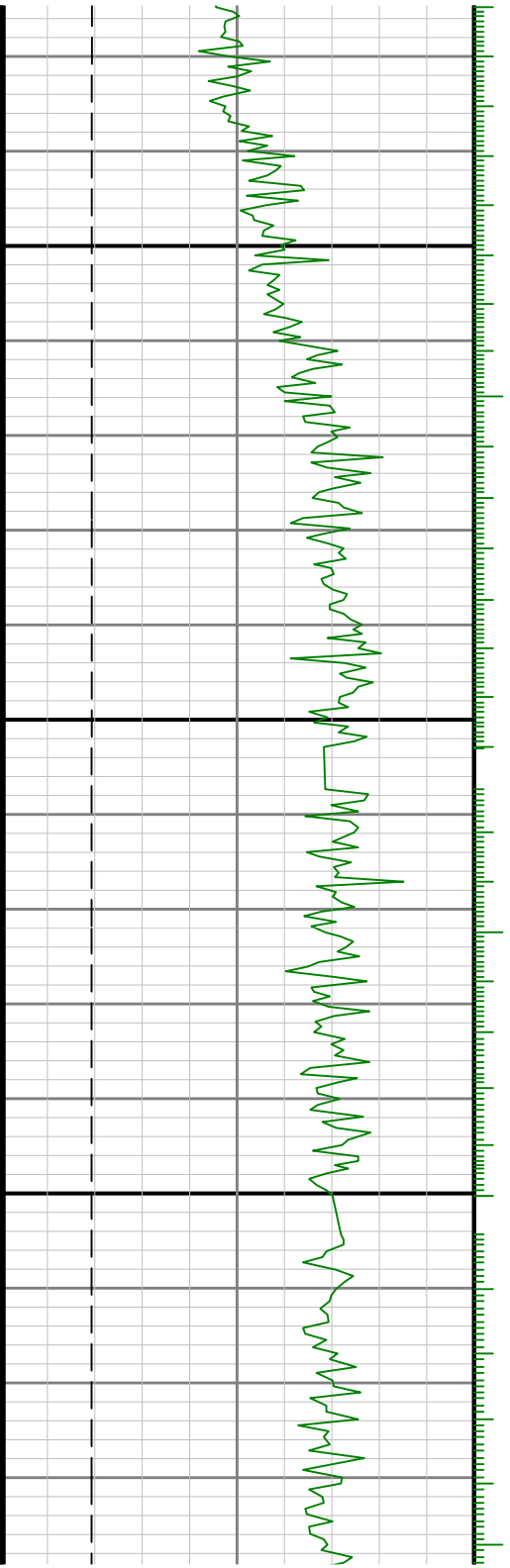


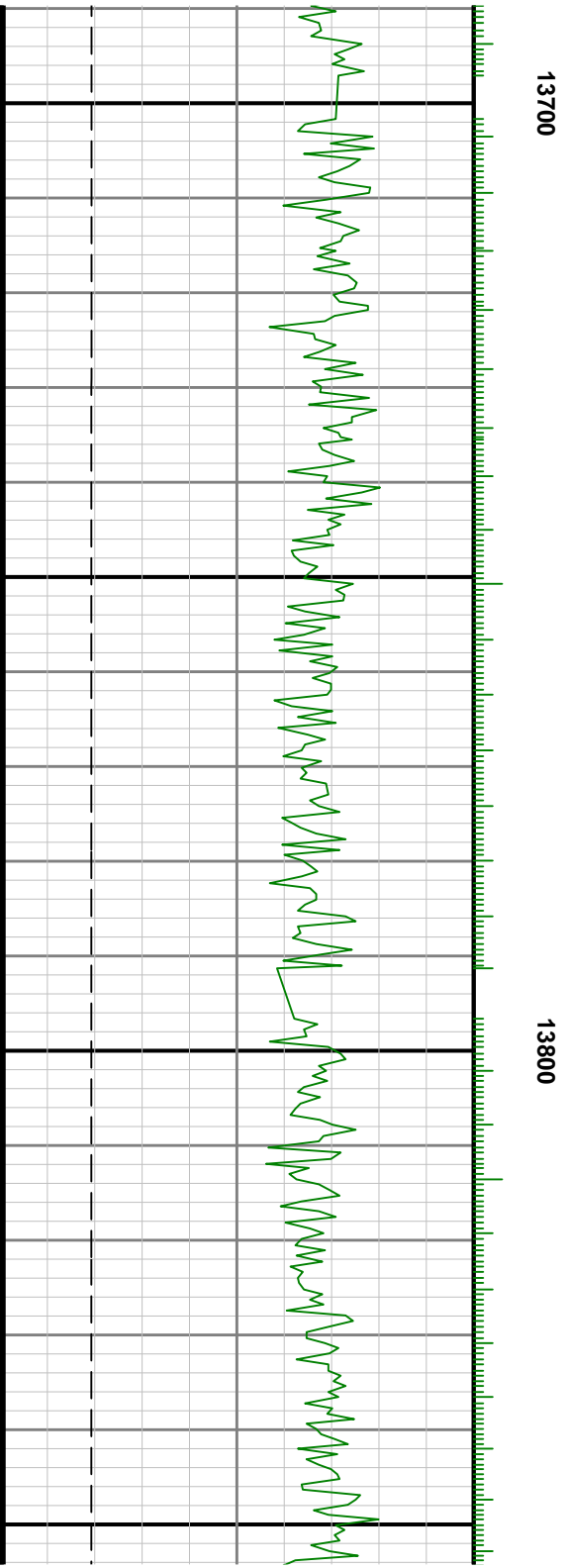


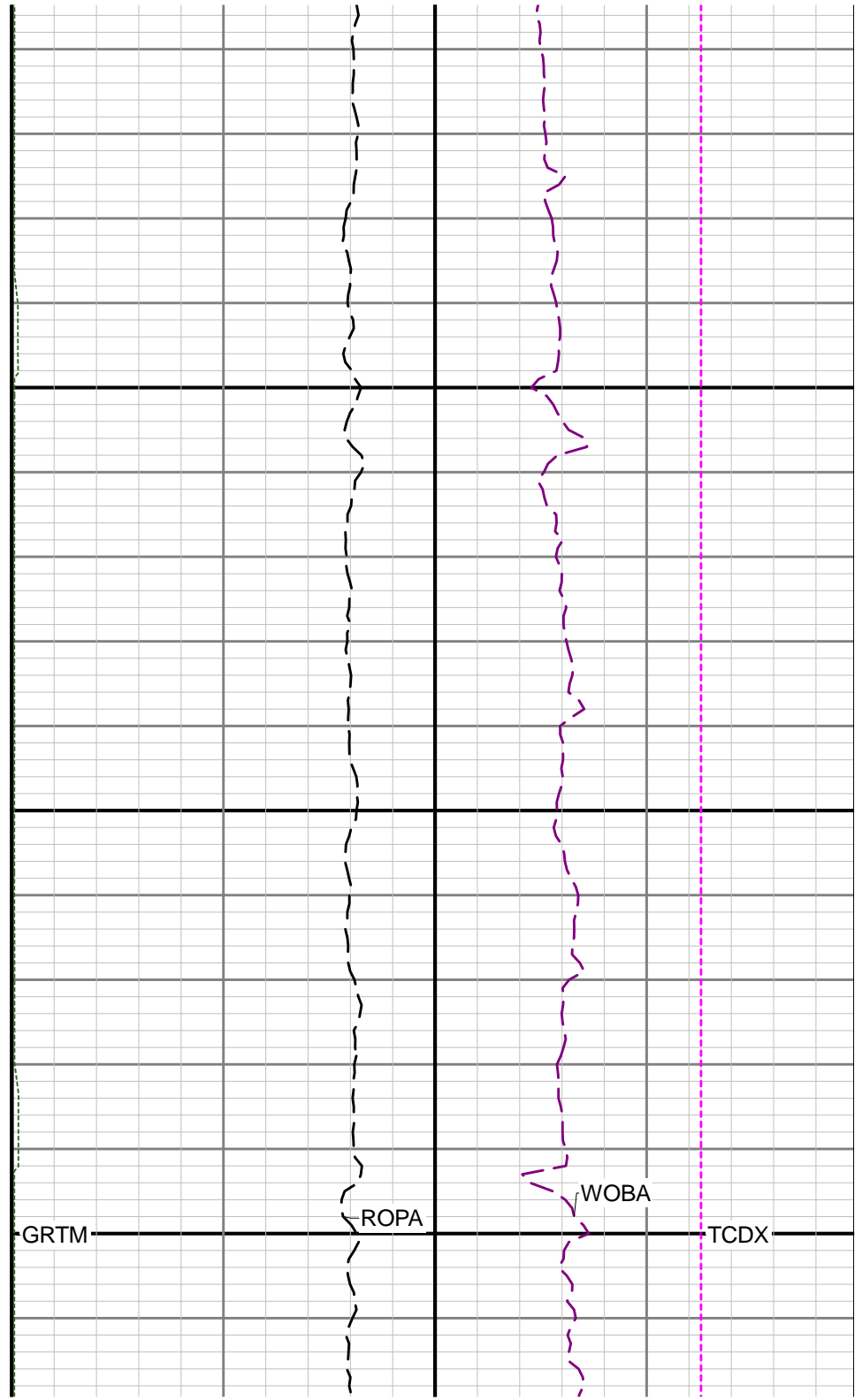
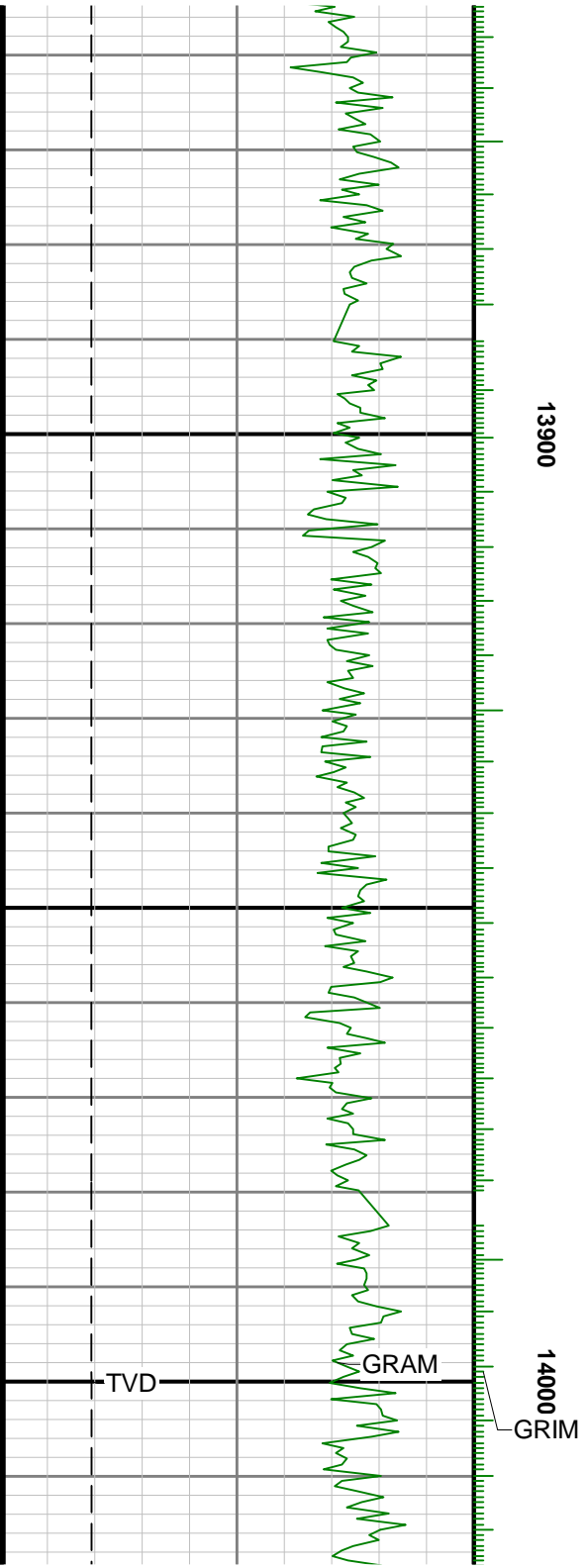


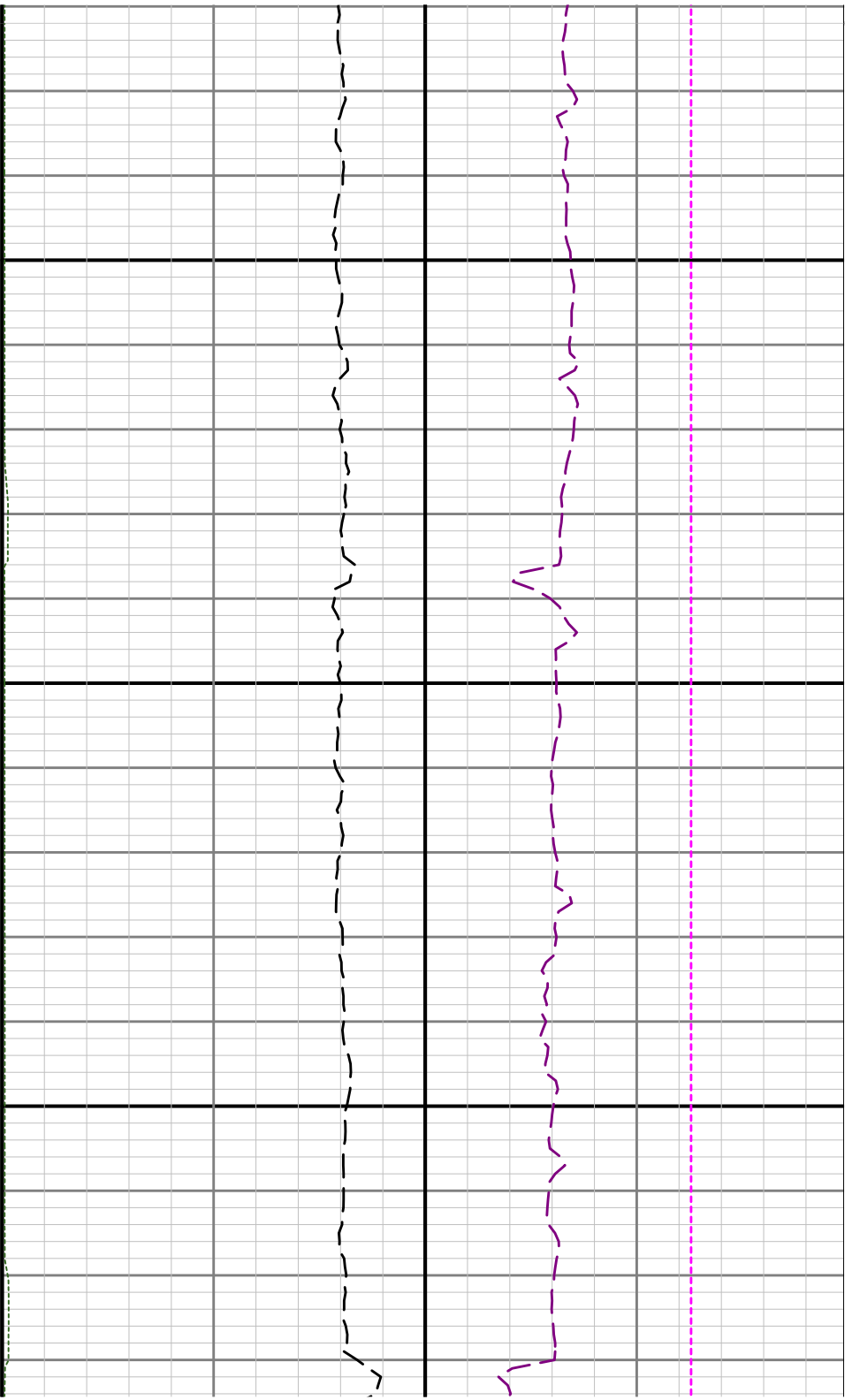


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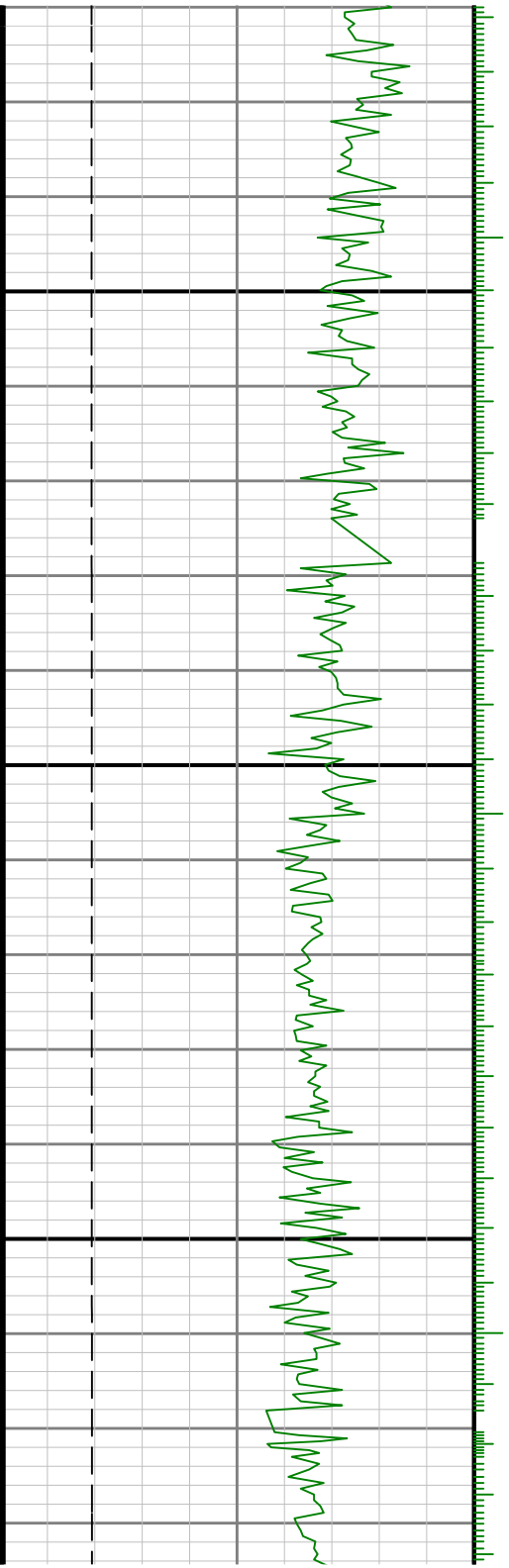






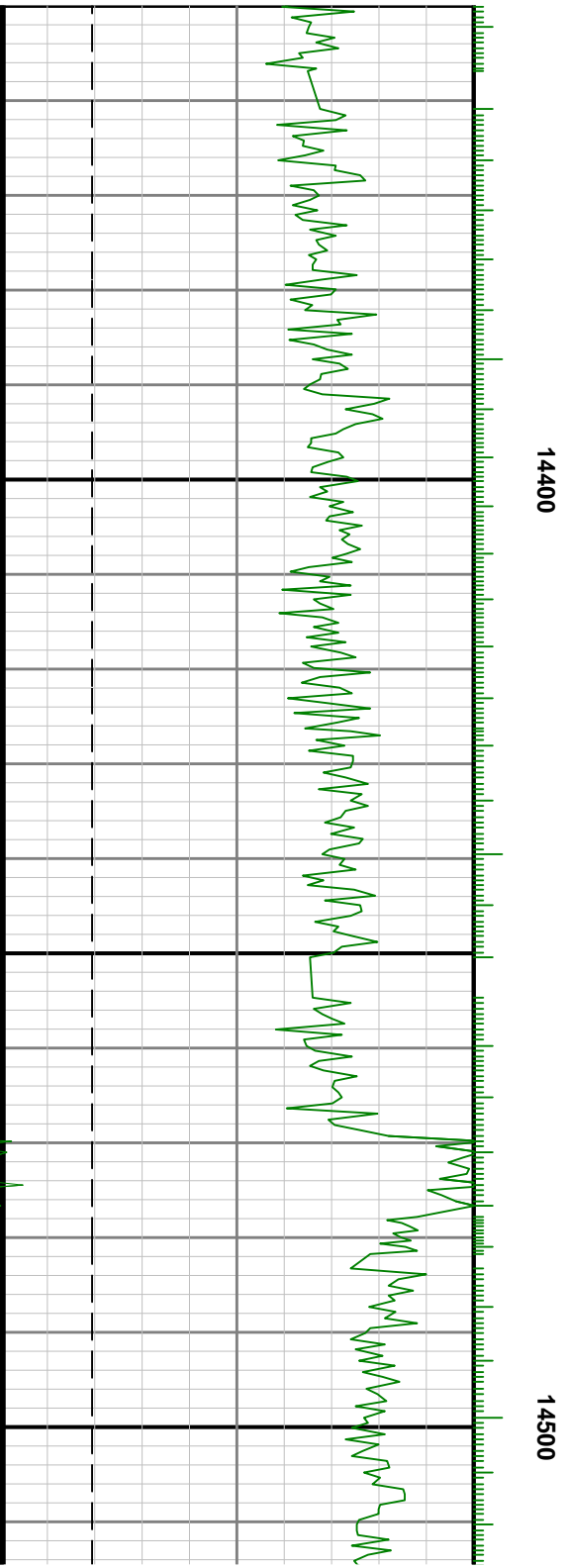
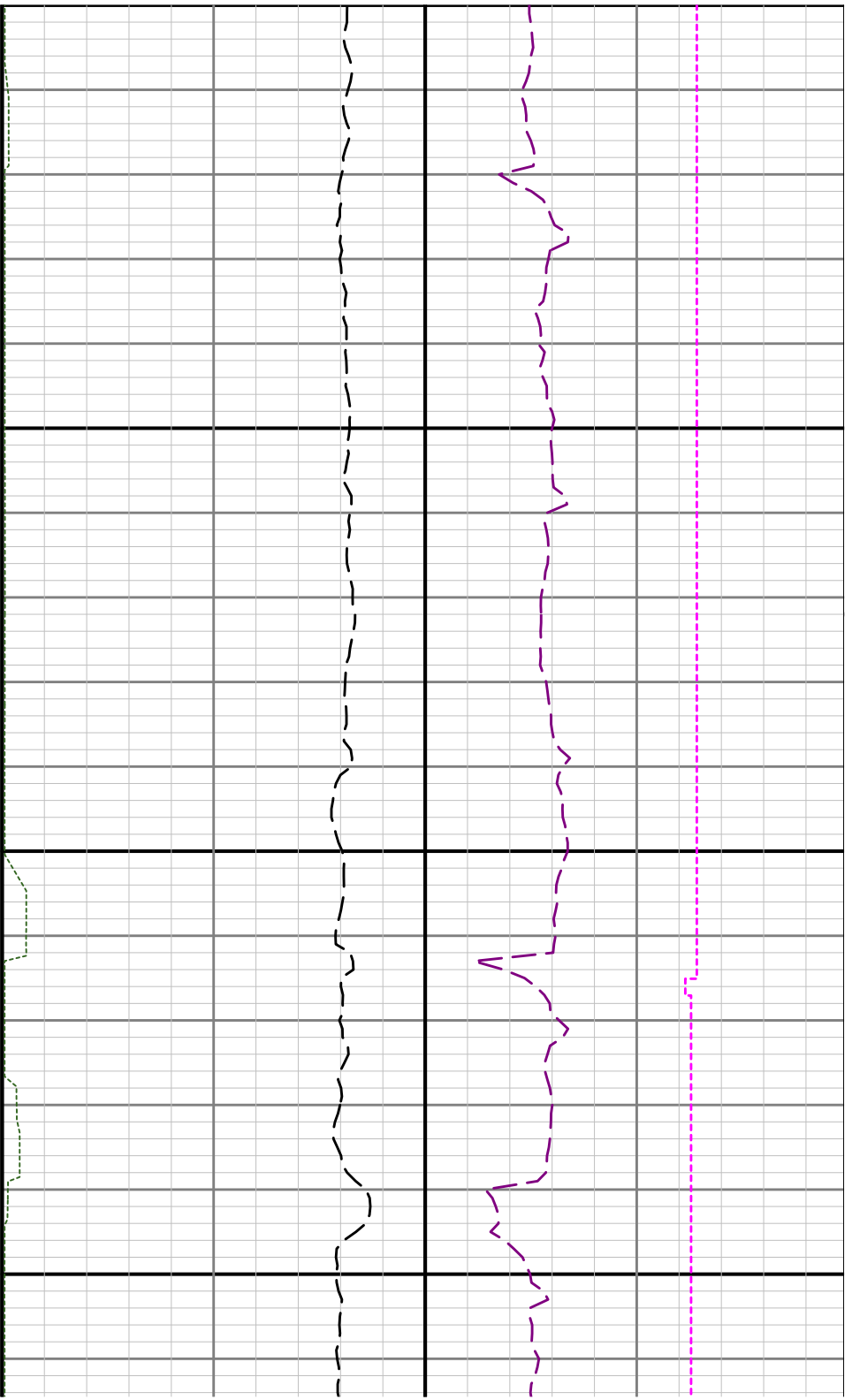


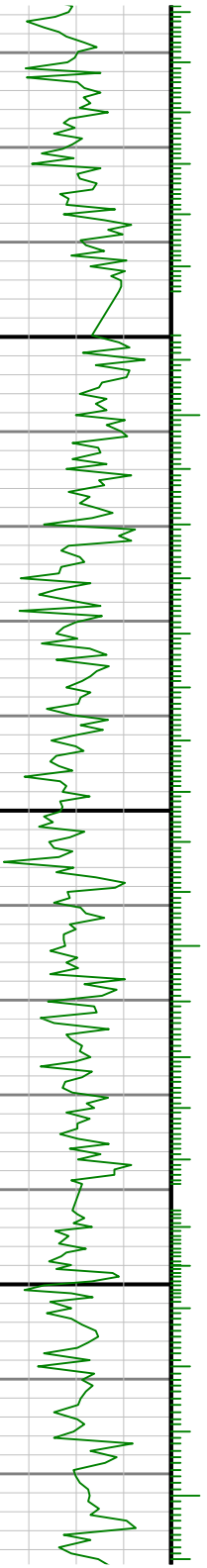
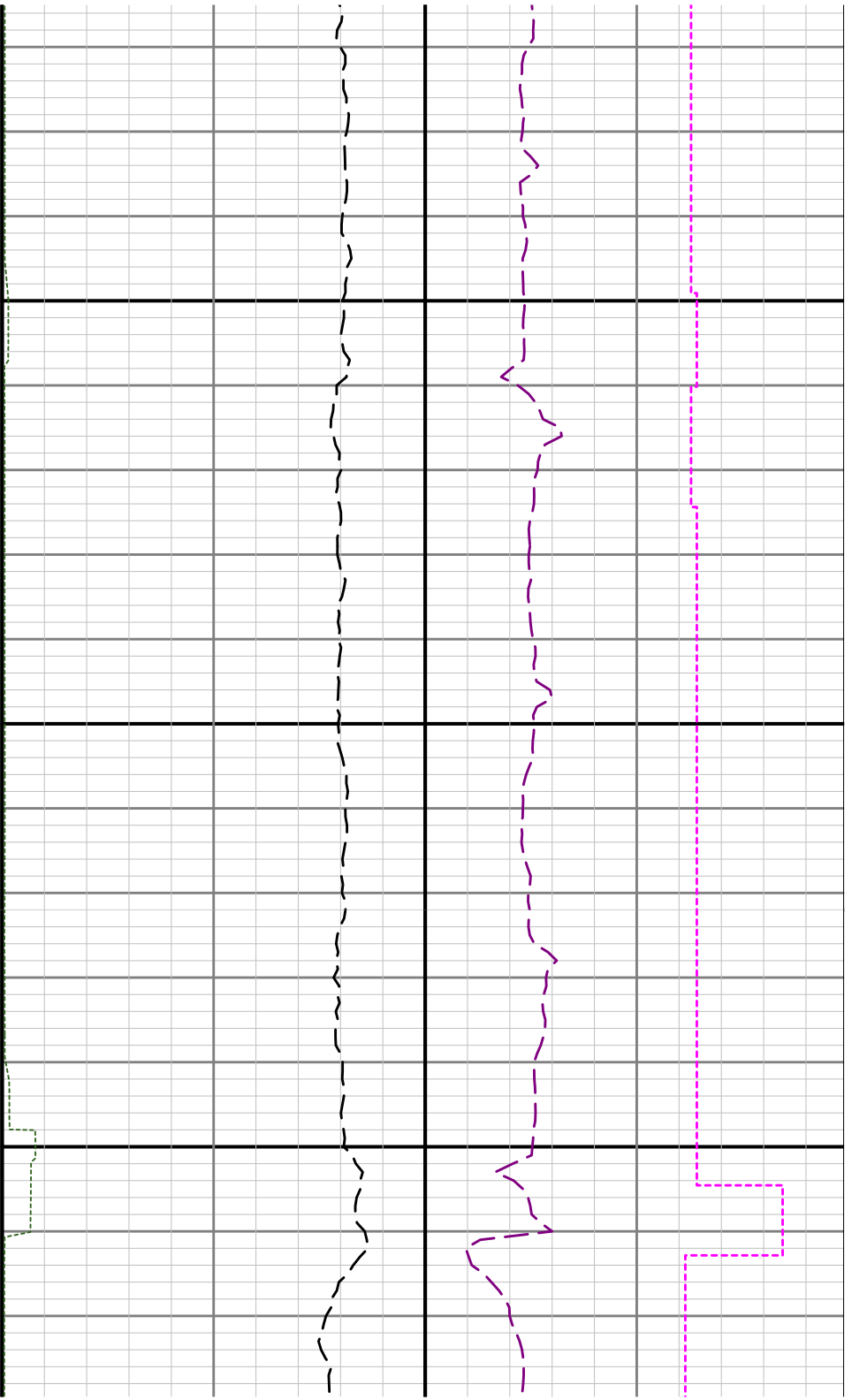
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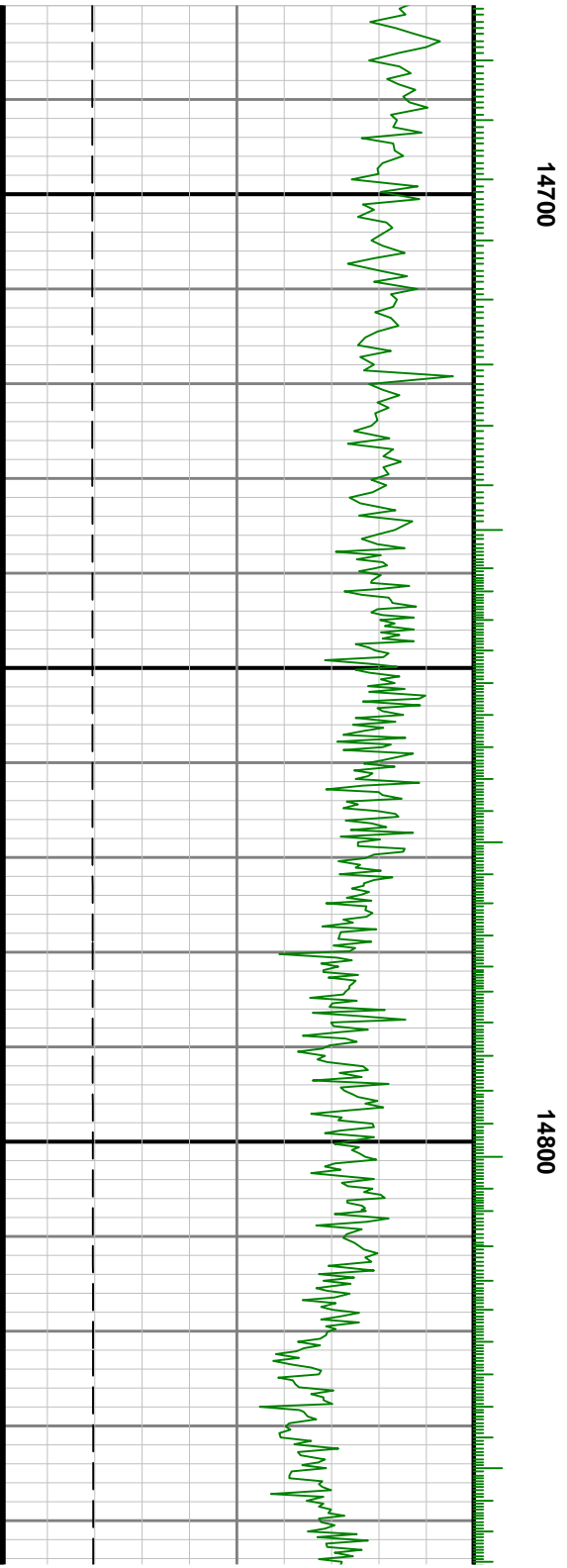
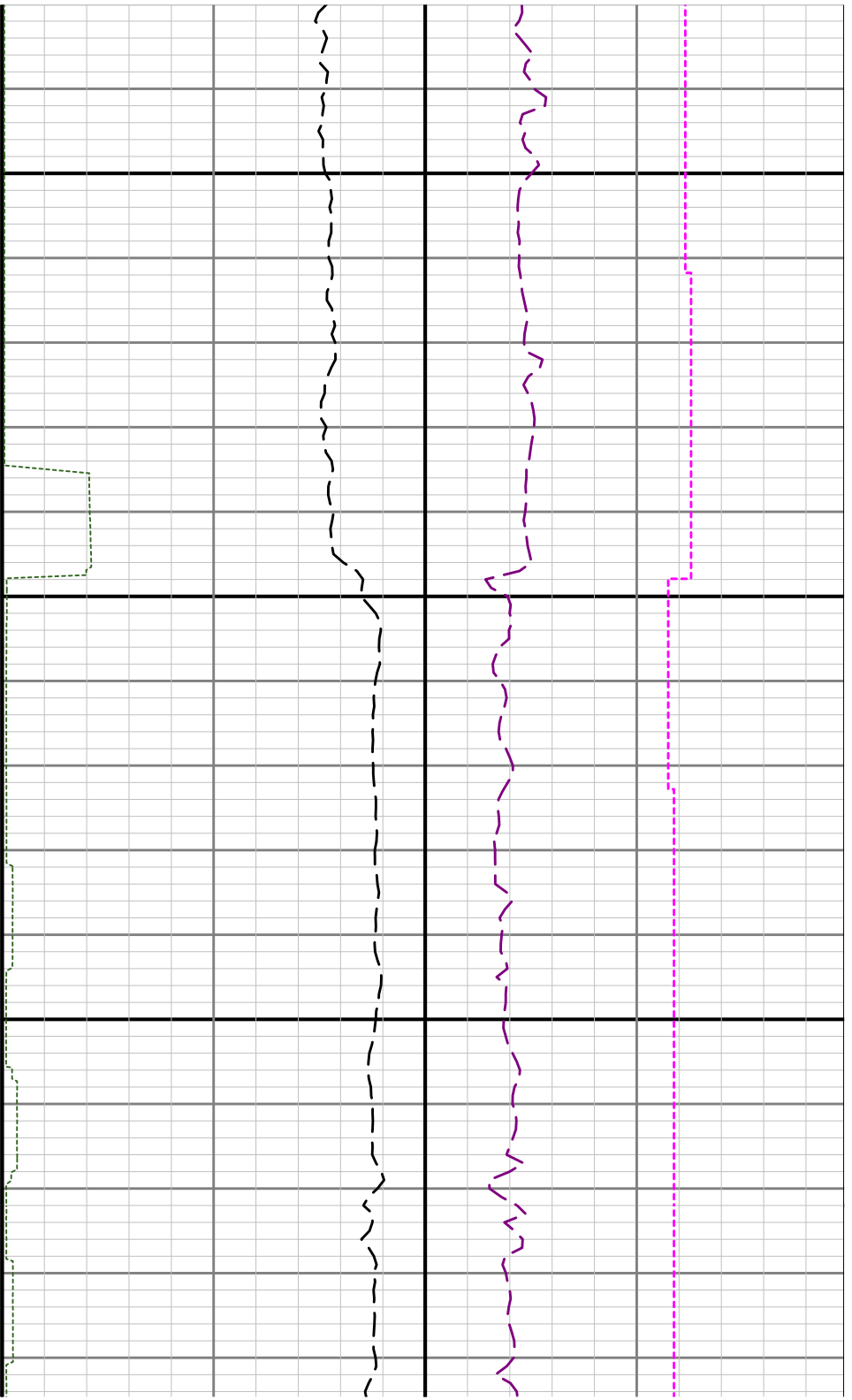


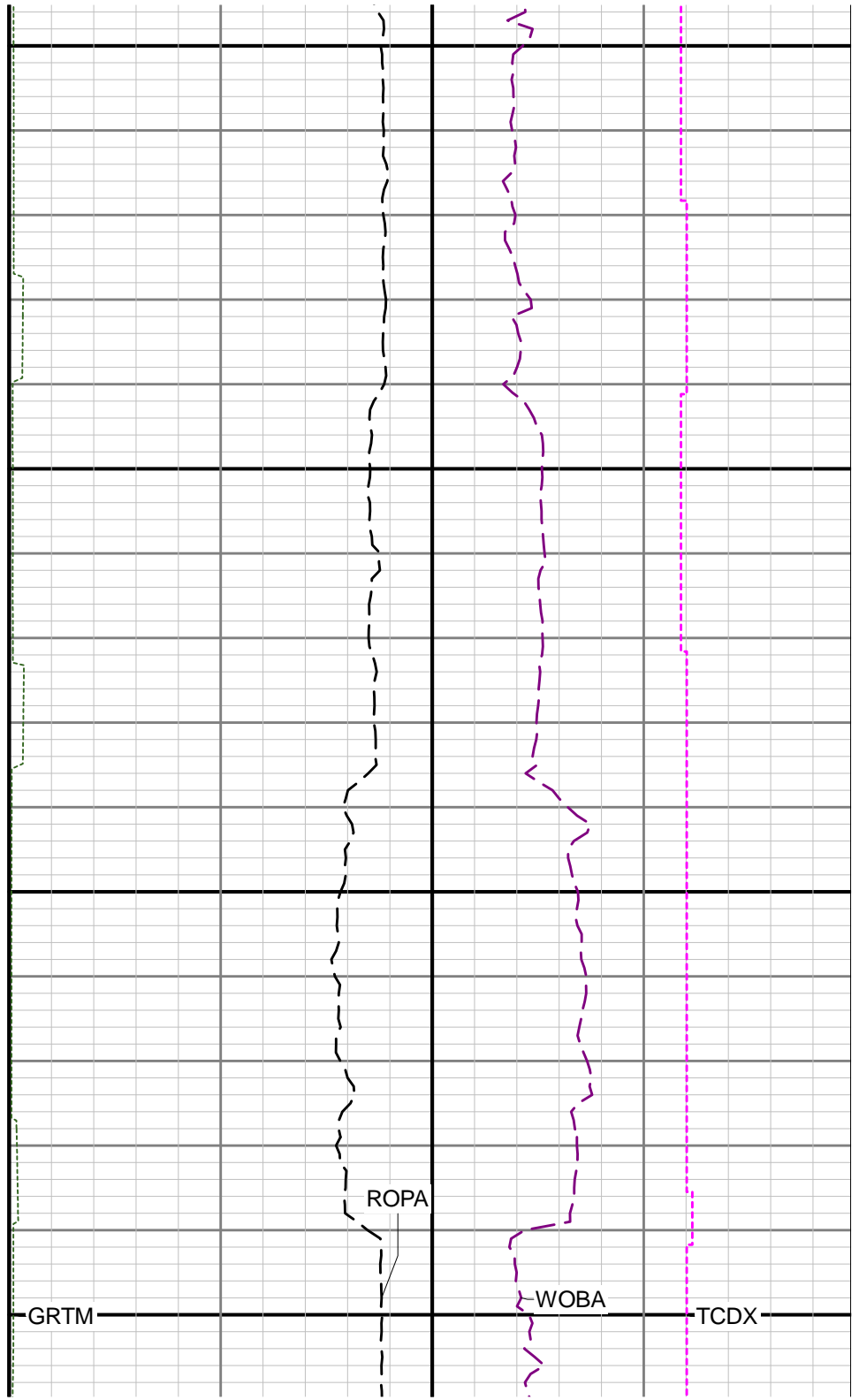
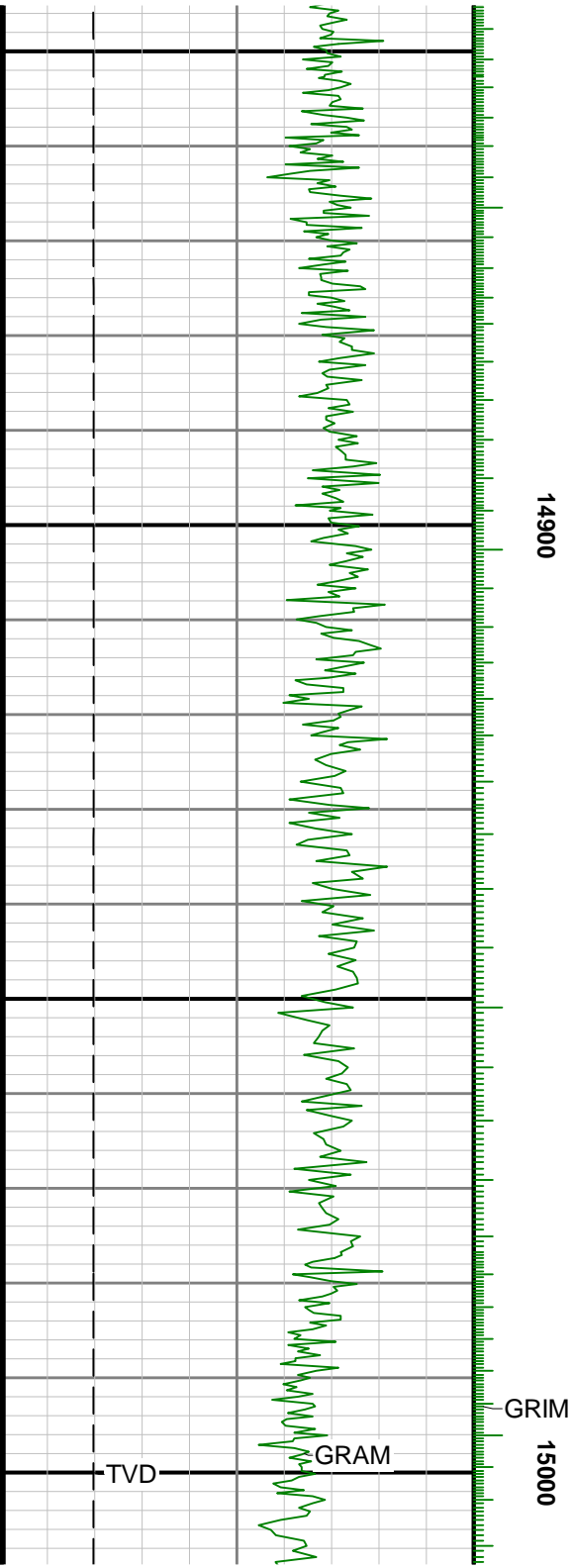


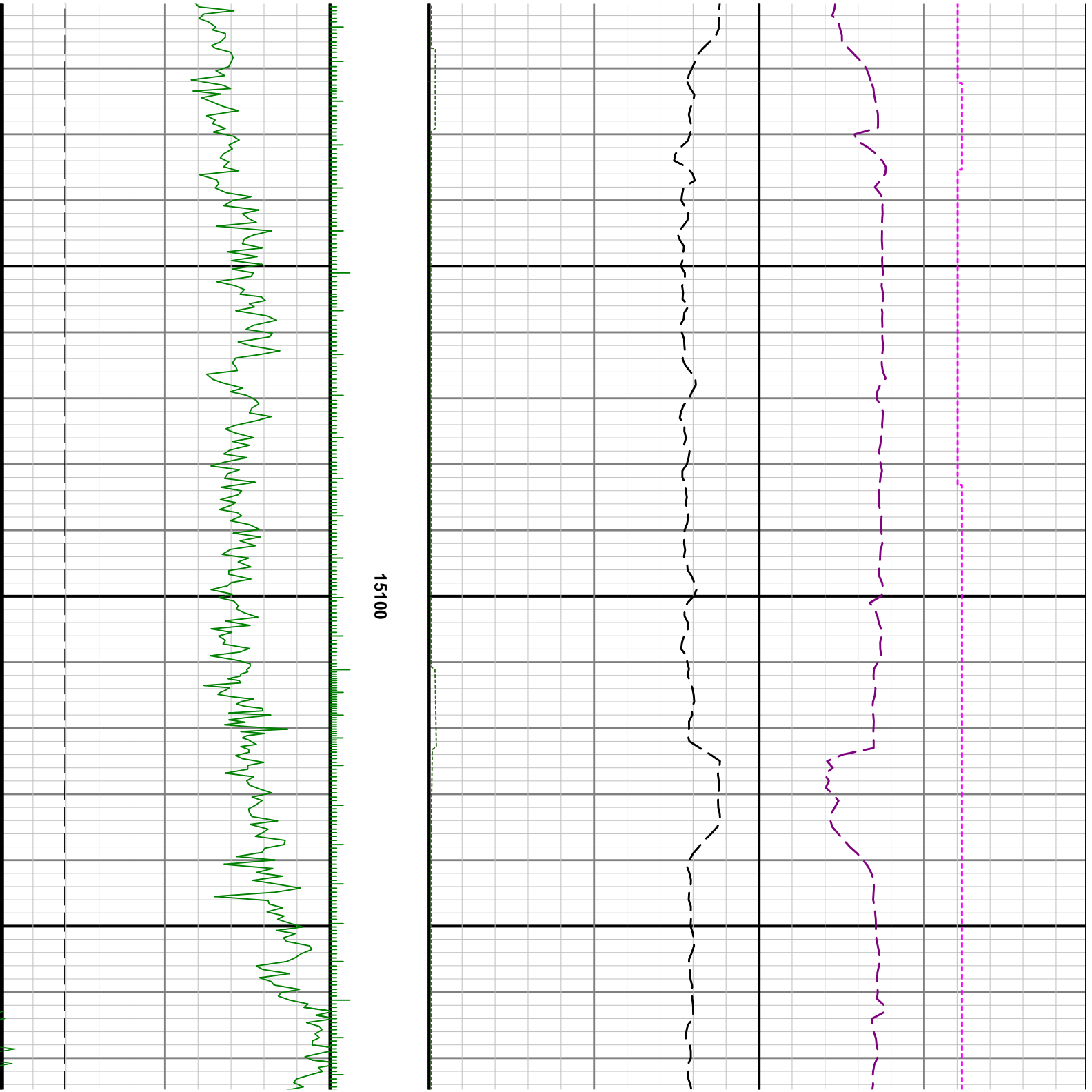


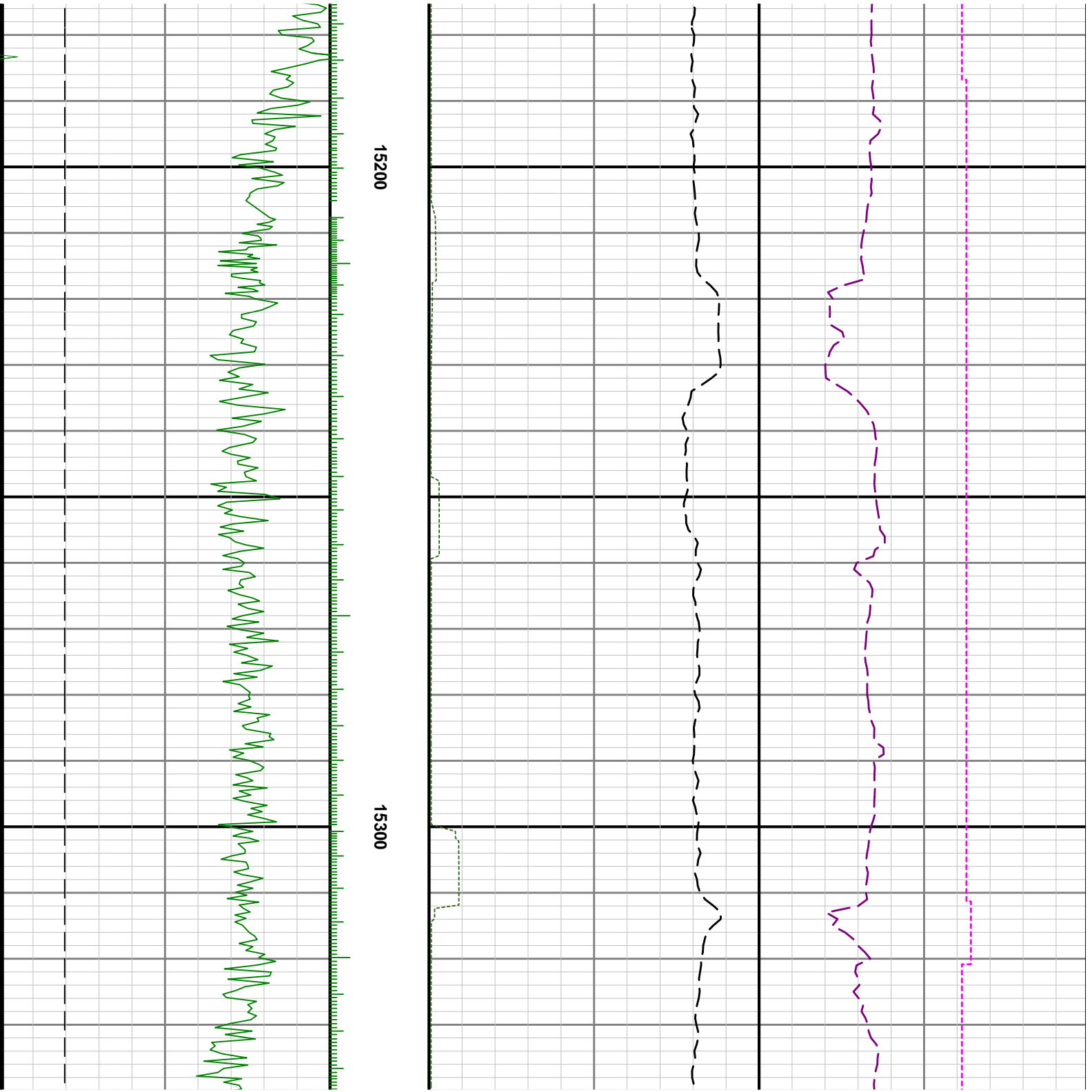


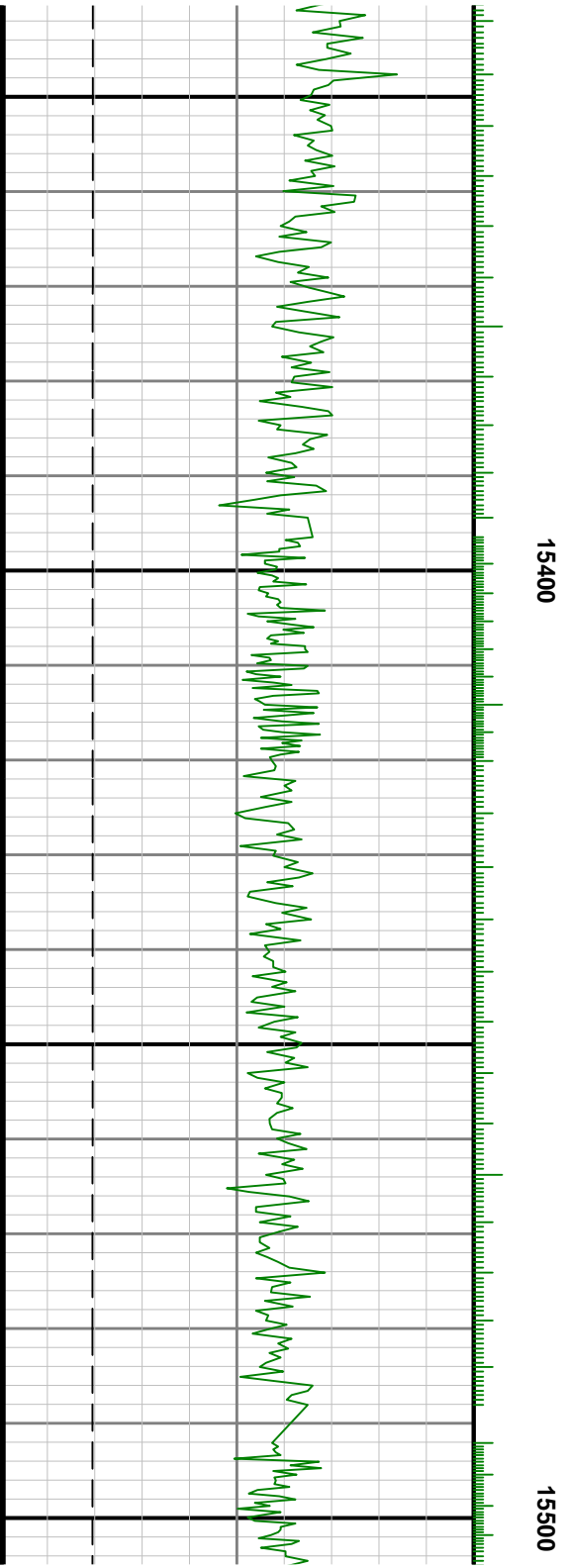






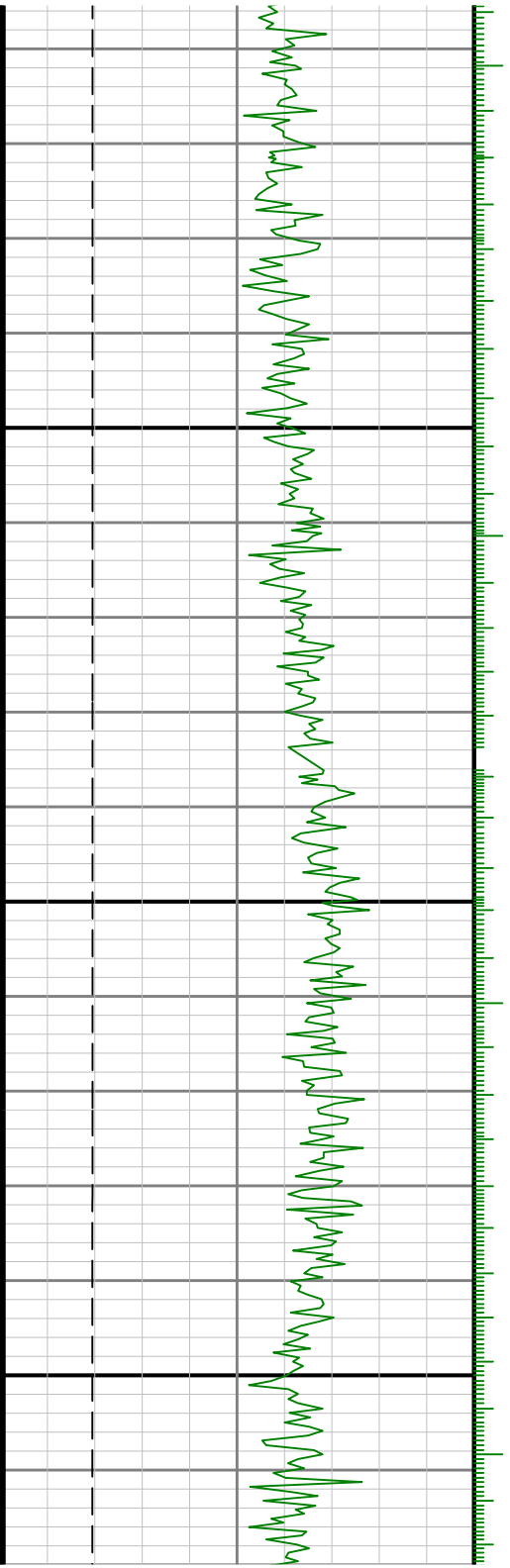




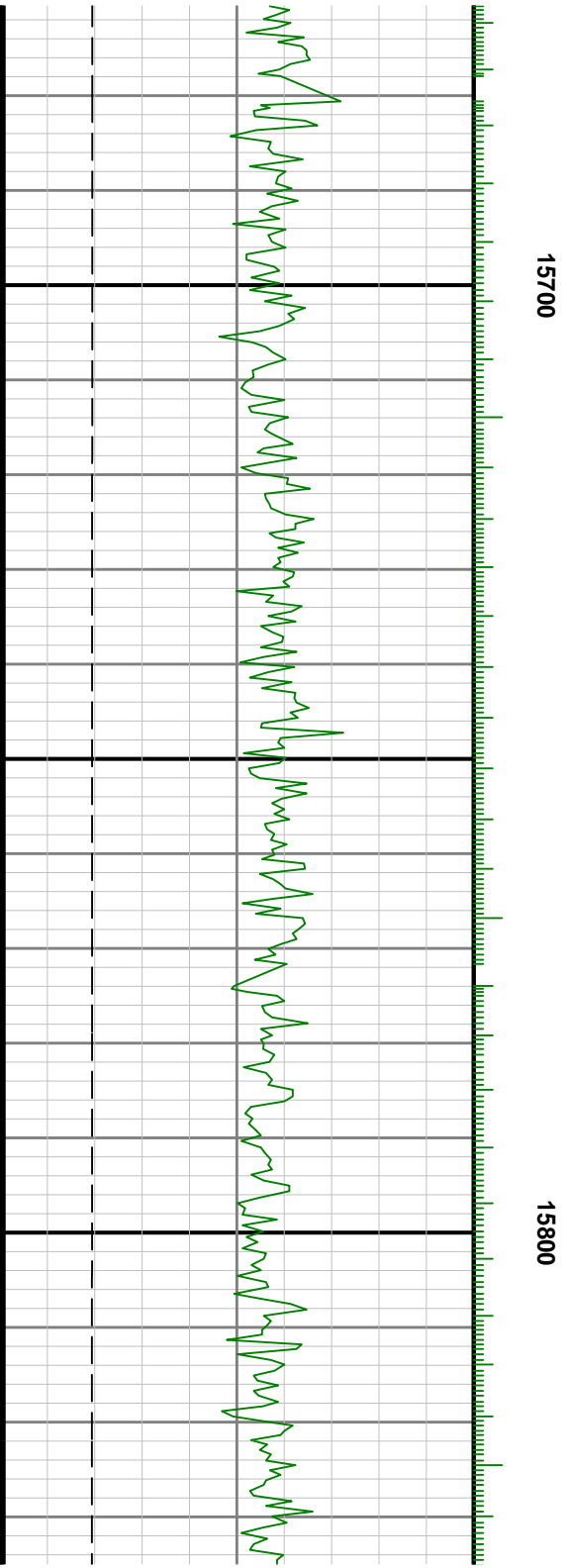


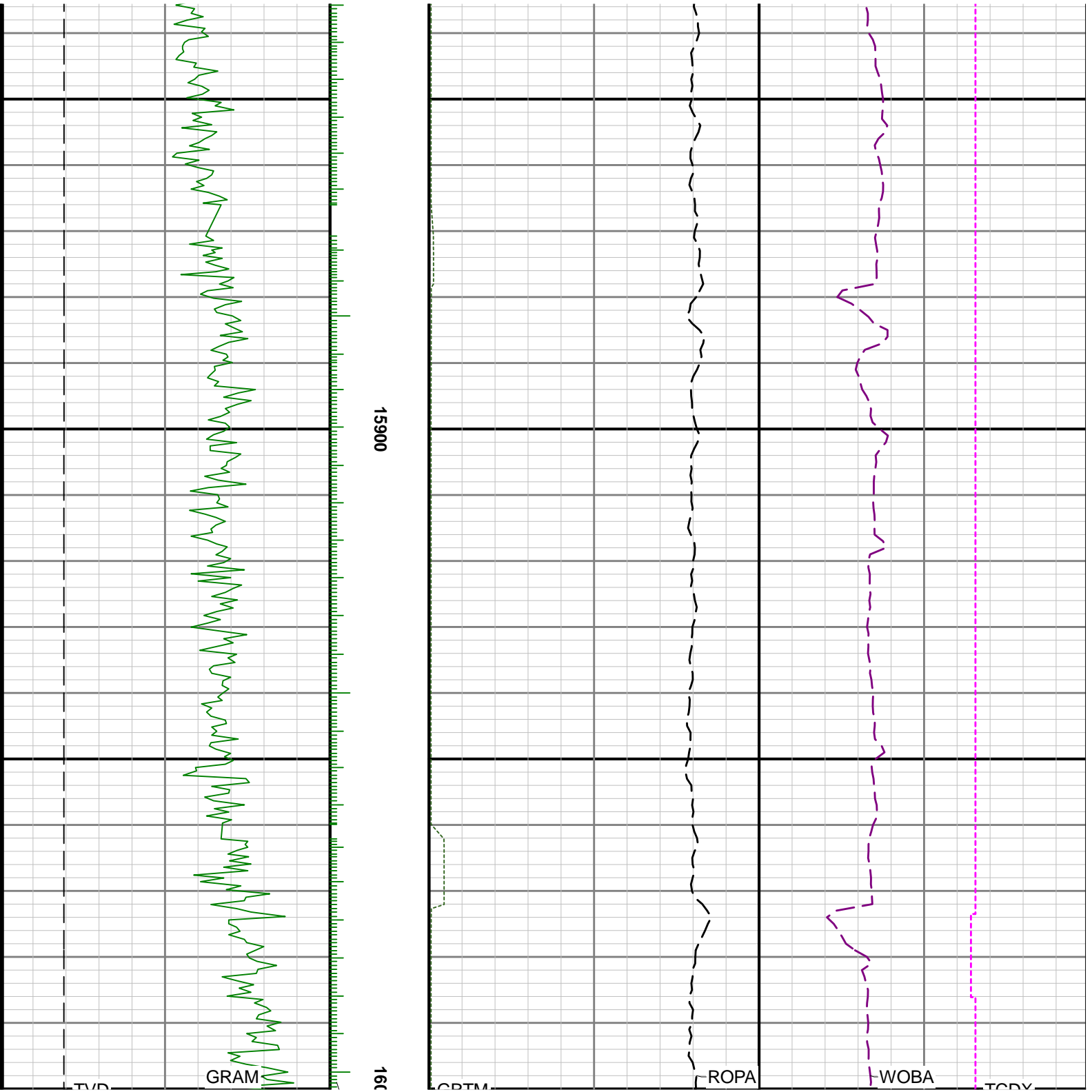


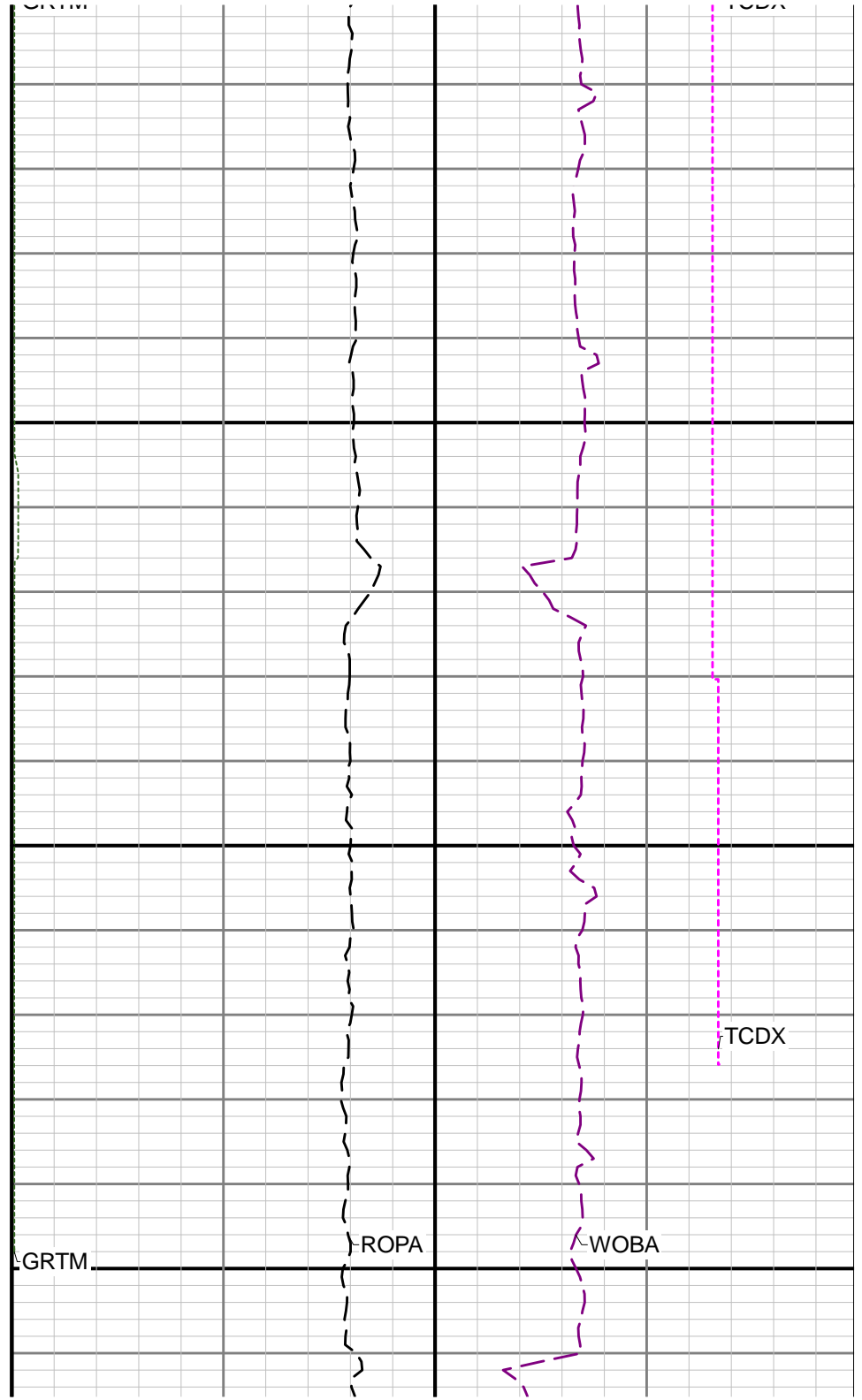
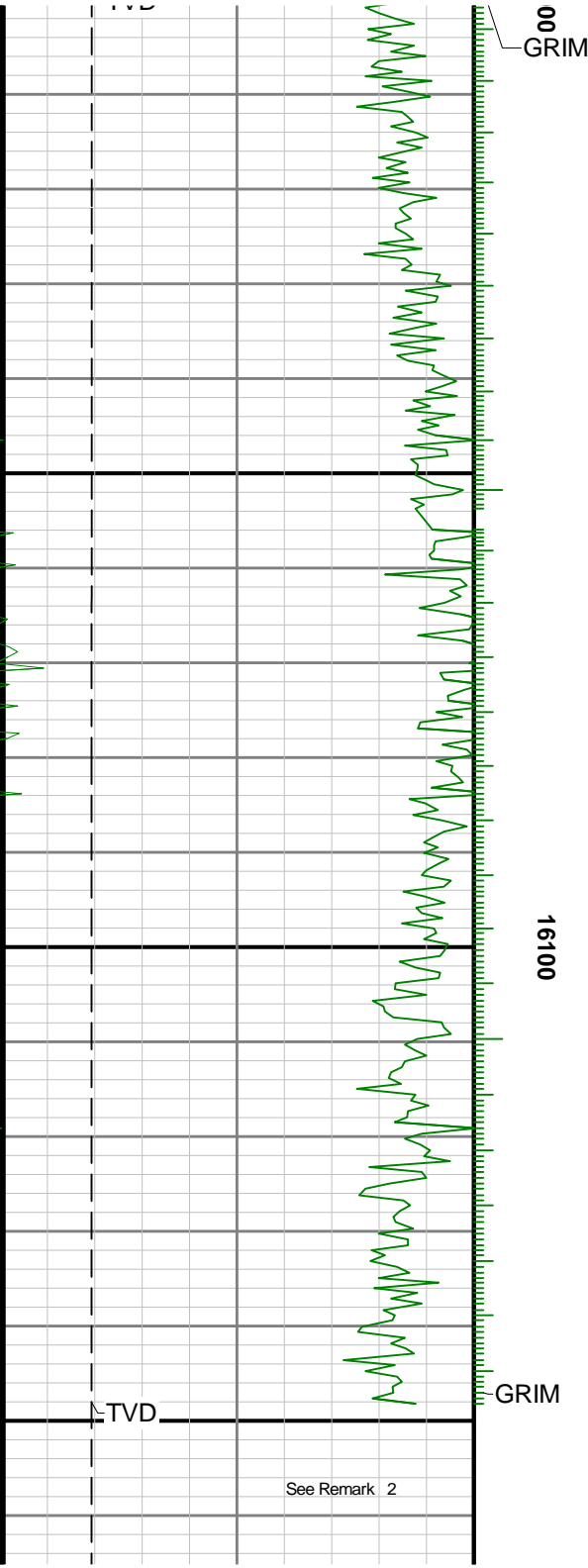
15600











										TD										R2x																			
										16200																													
Gamma Ray - Apparent 0.5 ft Average GRAM										MD 1:240 feet										Rate of Penetration of bit 3 ft Average ROPA										Weight On Bit 1 ft Average WOBA									
0 150																				1000 0										0 100									
API																				ft/h										klb									
True Vertical Depth TVD																				Gamma Time Since Drilled GRTM										Downhole Temperature TCDX									
6500 5500																				0 600										100 300									
ft																				min										degF									