

part of Baker Hughes. Unless other contract terms have been agreed to by the parties, each party's liabilities and

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
						Top (ft)	Bottom (ft)	From (ft)	To (ft)	Start Logging	End Logging	(h)
1	1	8.500	PDC	3.00	AutoTrak Curve	1457.71	11407.34	1470.00	11414.01	2015-10-07 10:28	2015-10-10 06:42	57.54
2	2	8.500	PDC	3.00	AutoTrak Curve	11401.72	14314.97	11414.01	14536.00	2015-10-10 22:19	2015-10-11 20:18	23.20

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Barry Combs	2015-10-06	2015-10-12	Hans Cary	2015-10-06	2015-10-12	Juan Chaparro	2015-10-06	2015-10-12
Marcos Favela	2015-10-06	2015-10-12	Stefani Moore	2015-10-06	2015-10-12			

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+ (%)
2015-10-09 03:52	1	5424.00	Diesel-Oil Based Mud	9.5	68	N/A	0.0	79/21	Active Pit	36000	0.00
2015-10-09 03:53	1	7910.00	Diesel-Oil Based Mud	9.6	48	N/A	107.0	80/20	Active Pit	31000	0.00
2015-10-10 15:27	1	11414.00	Diesel-Oil Based Mud	9.6	46	N/A	39.0	82/18	Active Pit	33000	0.00
2015-10-11 04:07	2	12004.00	Diesel-Oil Based Mud	9.7	51	N/A	72.0	76/24	Active Pit	27000	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	ATC_SU	12244677	Near Bit Inclination	5.93	6.67	7.000	4.330
1	ATC_MWD	12097422	Gamma (single)	2.20	12.29	7.000	3.250
1	ATC_MWD	12097422	Directional (mag)	12.27	22.36	7.000	3.250
2	ATC_SU	12160767	Near Bit Inclination	5.93	6.67	7.000	4.330
2	ATC_MWD	12398198	Gamma (single)	2.20	12.29	7.000	3.250
2	ATC_MWD	12398198	Directional (mag)	12.27	22.36	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_MWD	ATC_MWD	Auto Trak Curve MWD
ATC_LCPM	ATC_LCPM	Auto Trak Curve LCPM

Comments

- 1 Baker Hughes INTEQ runs 1 and 2 utilized a 6.75 inch AutoTrak Curve Rotary Steerable assembly (Directional and Gamma Tool) behind an 8.5 inch bit from 1470 to 14536 feet MD (1470 to 7056 feet TVD).
- 2 Various intervals of missing logging data are a result of downlinking while drilling.
- 3 Depth measurements obtained from a depth control system not supplied or operated by Baker Hughes INTEQ. Due to the lack of control by Baker Hughes INTEQ Logging Engineers, depth calibrations and measurements cold 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	11401.00	8.500	1	The interval from 11401 to 11414 feet MD (7103 feet TVD) was logged up to 16 hours after being drilled due to rig pulling out of hole to pick up new AutoTrak Curve drilling assembly.
2	14524.00	8.500	2	The interval from 14524 to 14536 feet MD (7056 feet TVD) was not logged due to sensor to bit offset at TD.



Company Well

Interval

Created

Great Western Operating CO LLC

Schneider HD 11-352HN

Date From: 2015-10-07 10:28

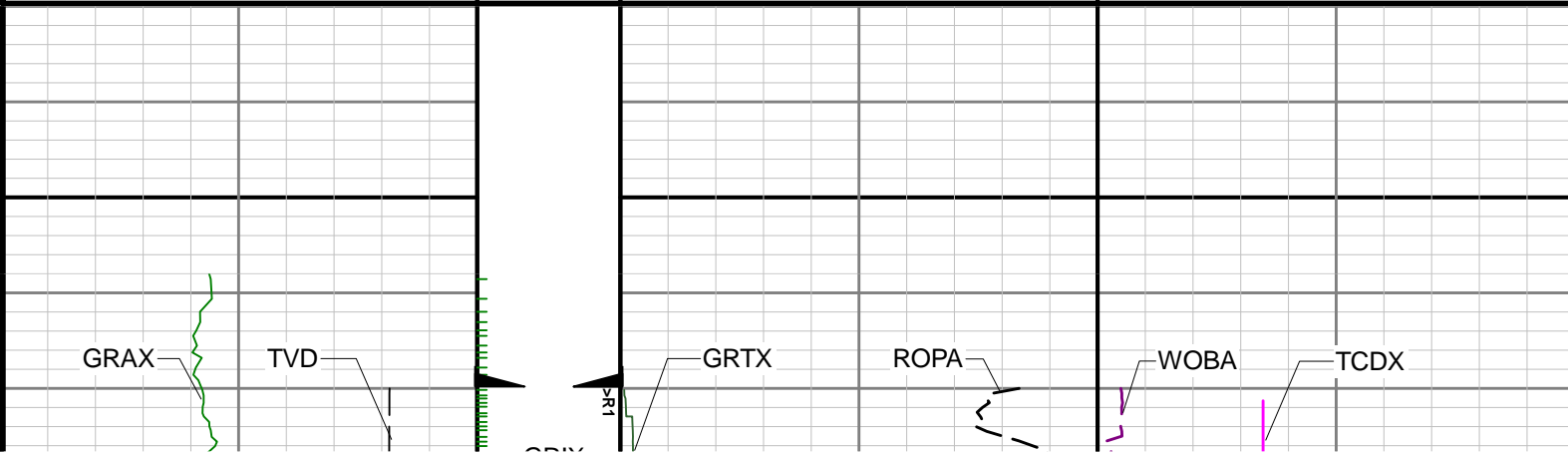
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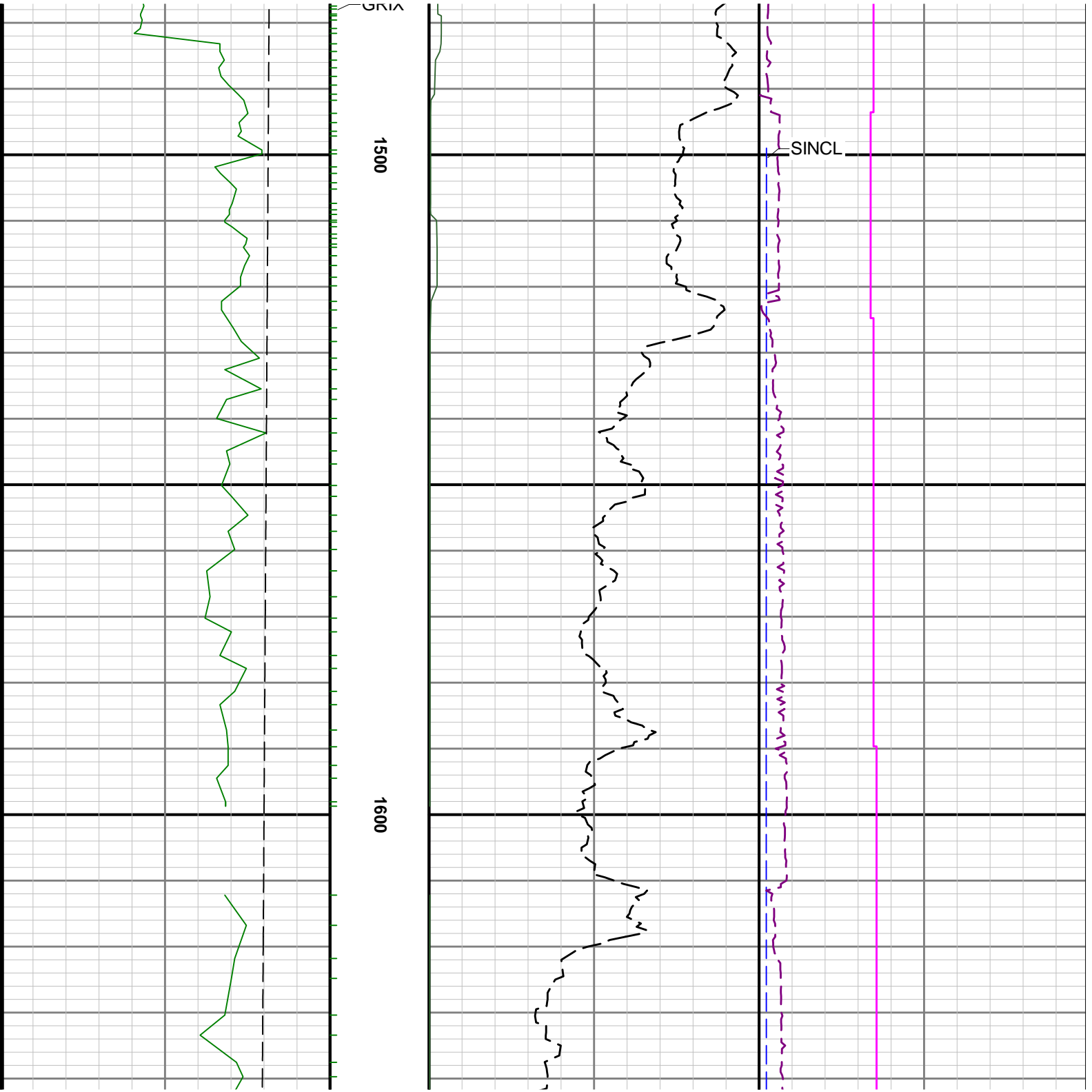
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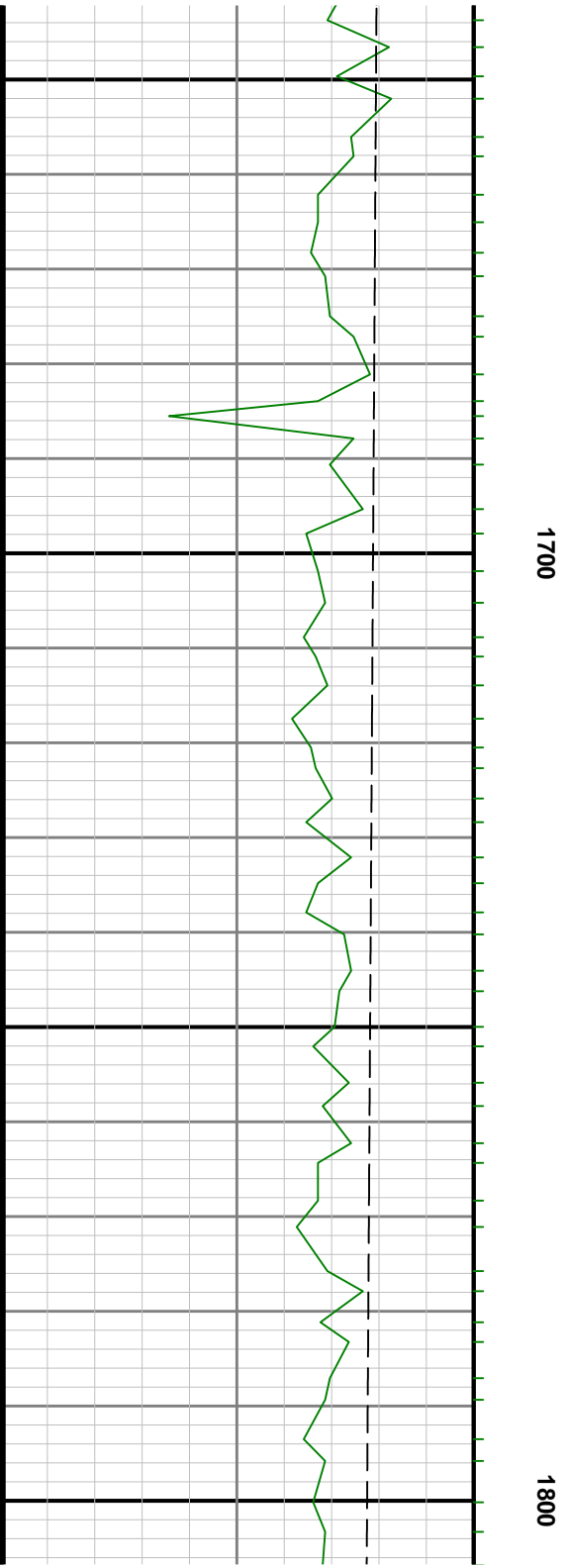
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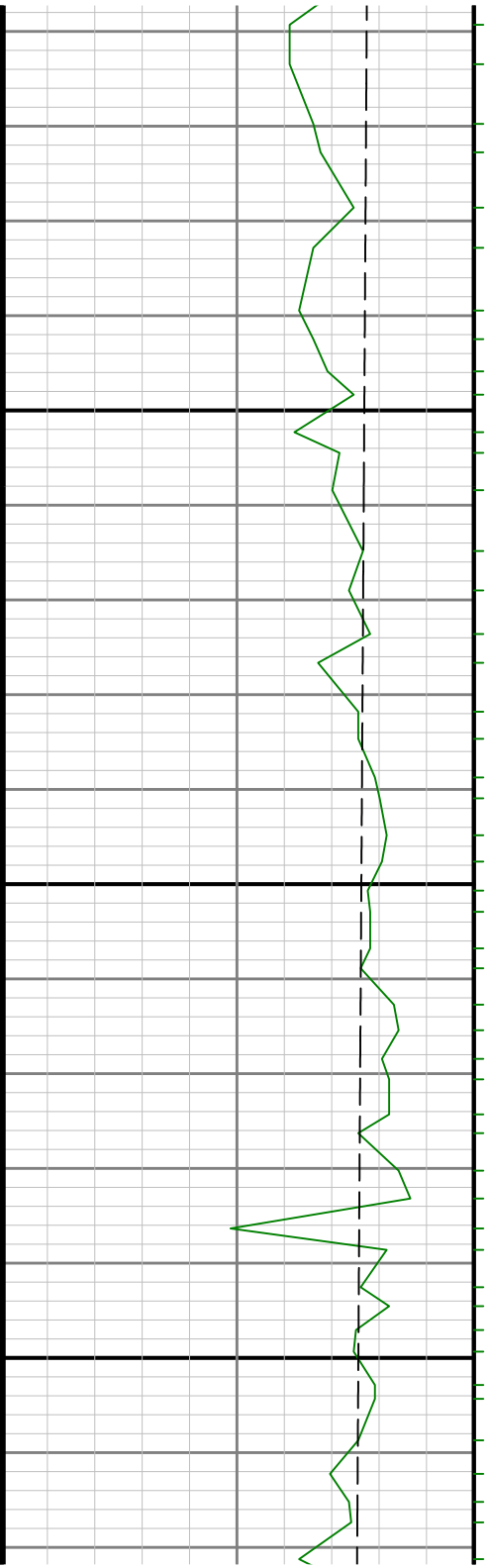
Bottom: 14537.00

Gamma Ray - Apparent 3 ft Average	MD 1:240 feet	Gamma Time Since Drilled	Survey Inclination
0 150		0 600	-2 92
API		min	Weight On Bit 1 ft Average
True Vertical Depth		Rate of Penetration of bit 3 ft Average	0 300
8000 0		1000 0	klb
ft		ft/h	Downhole Temperature
			0 300
			degF

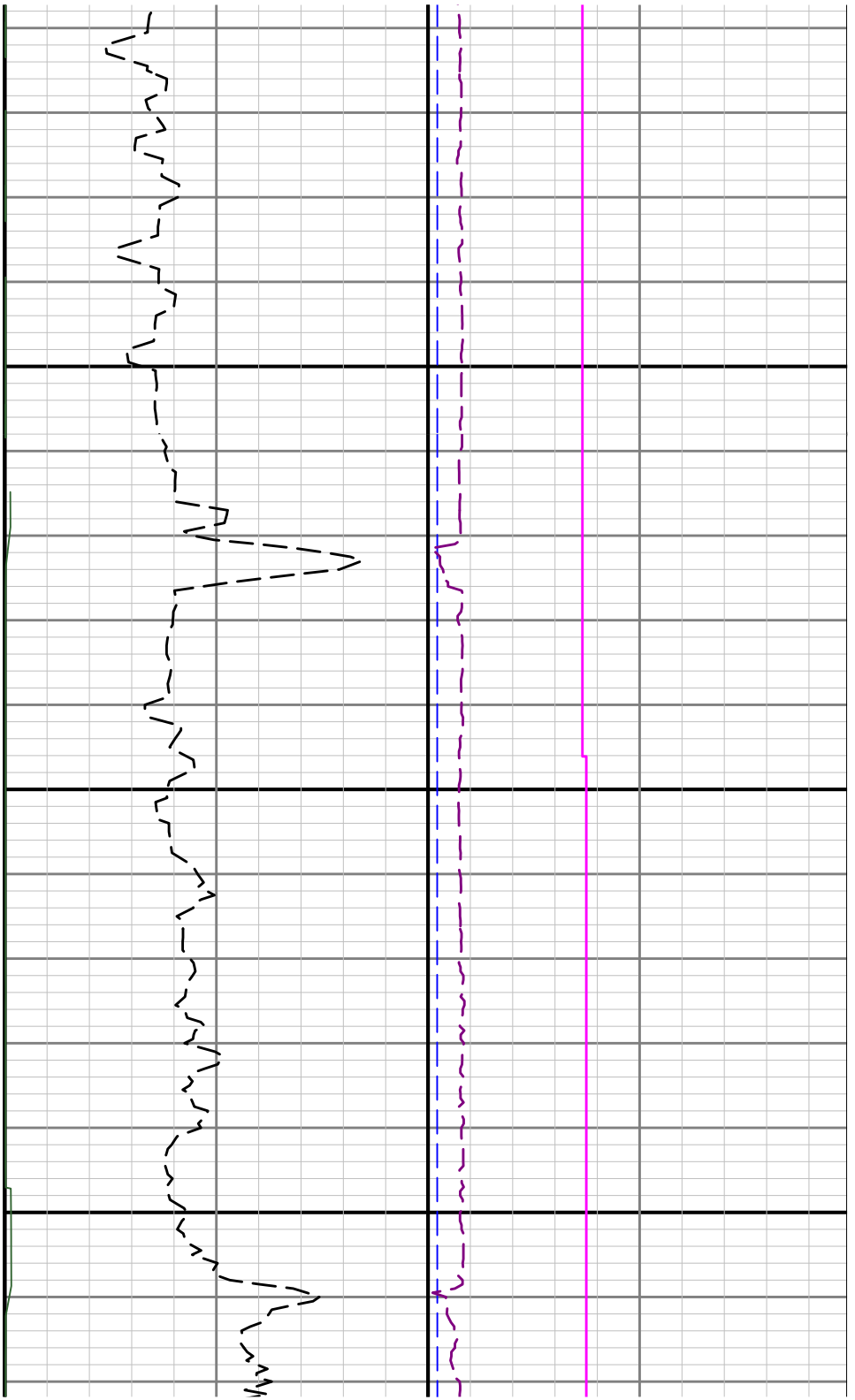


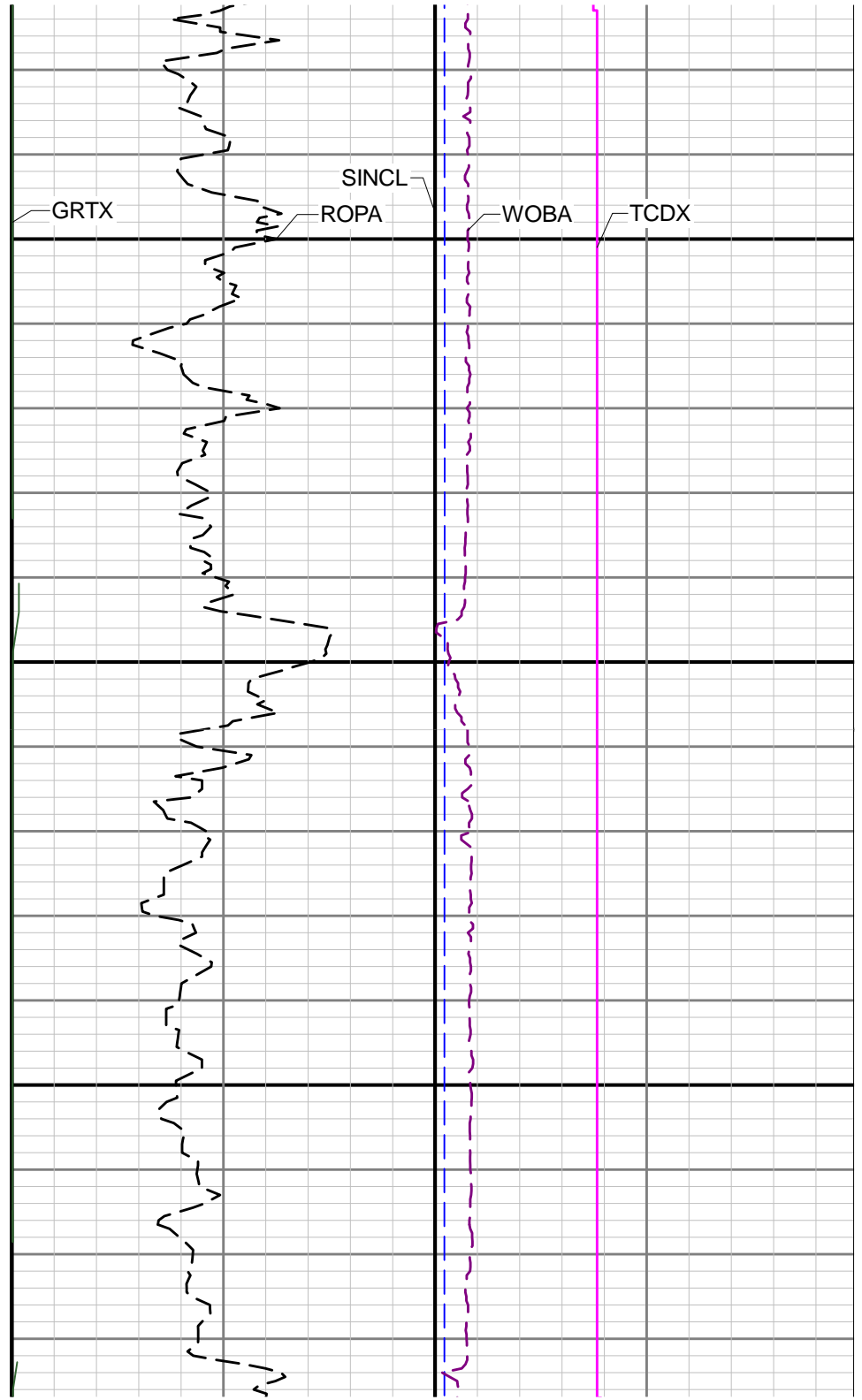
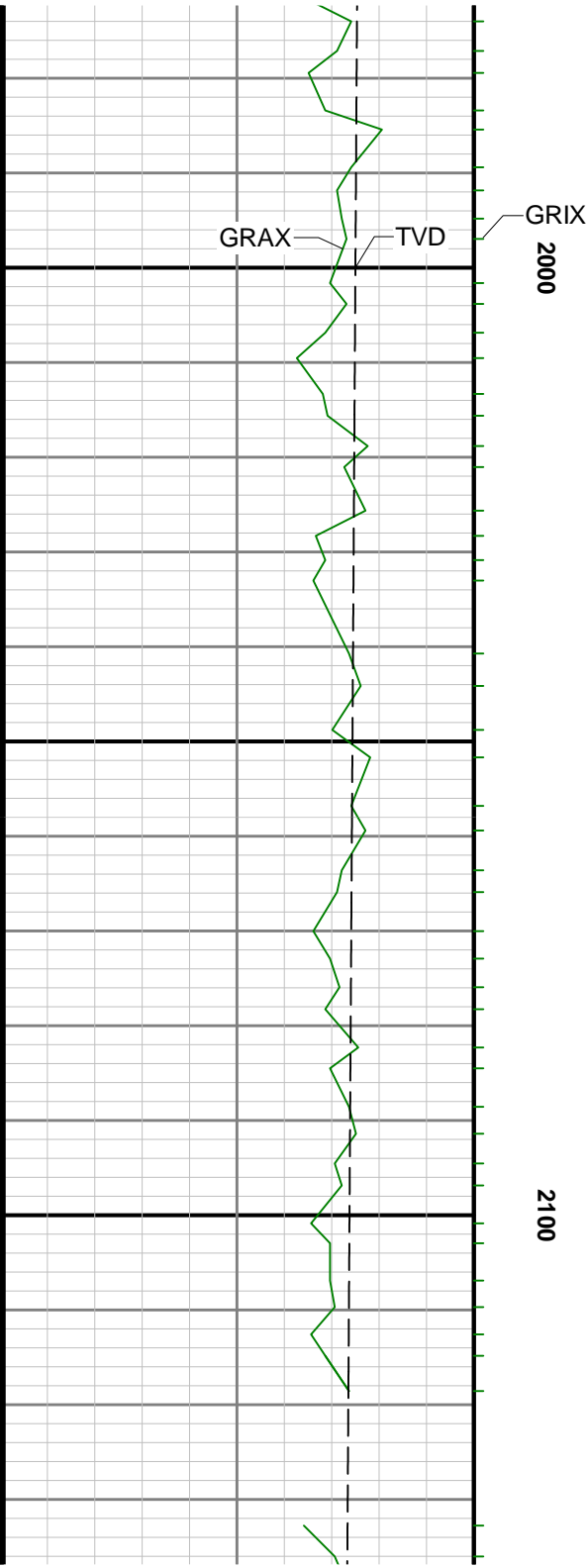


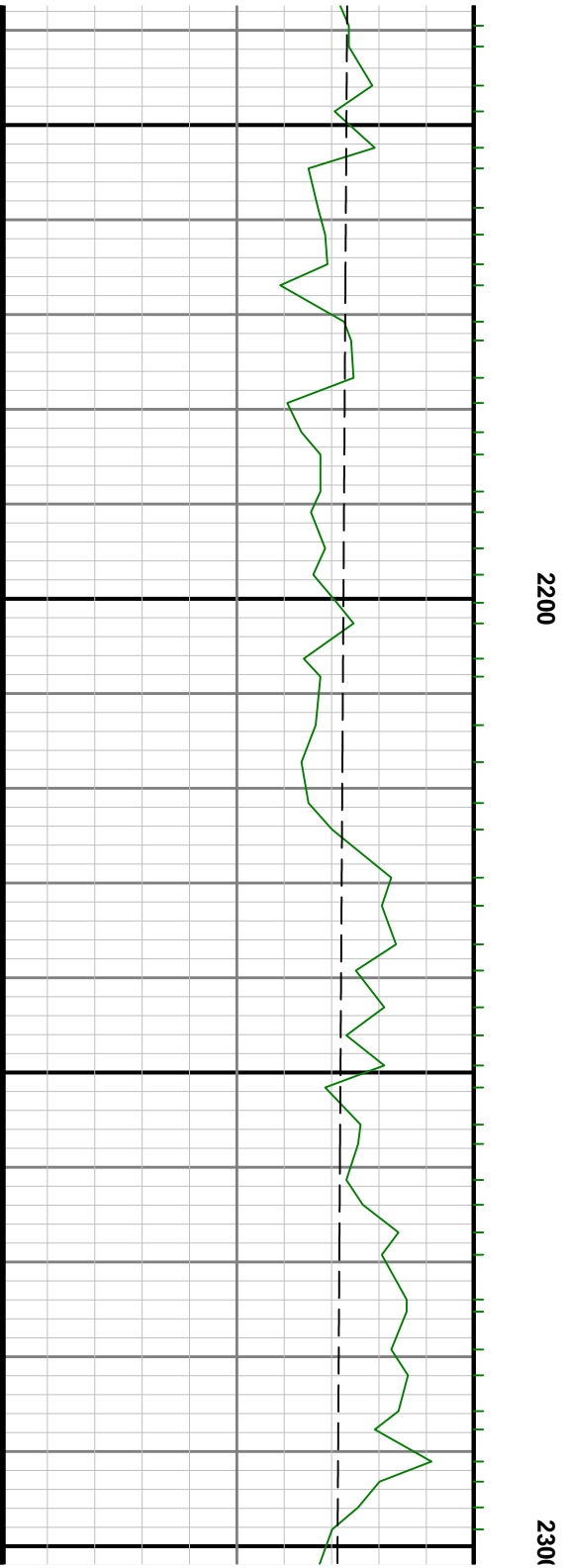


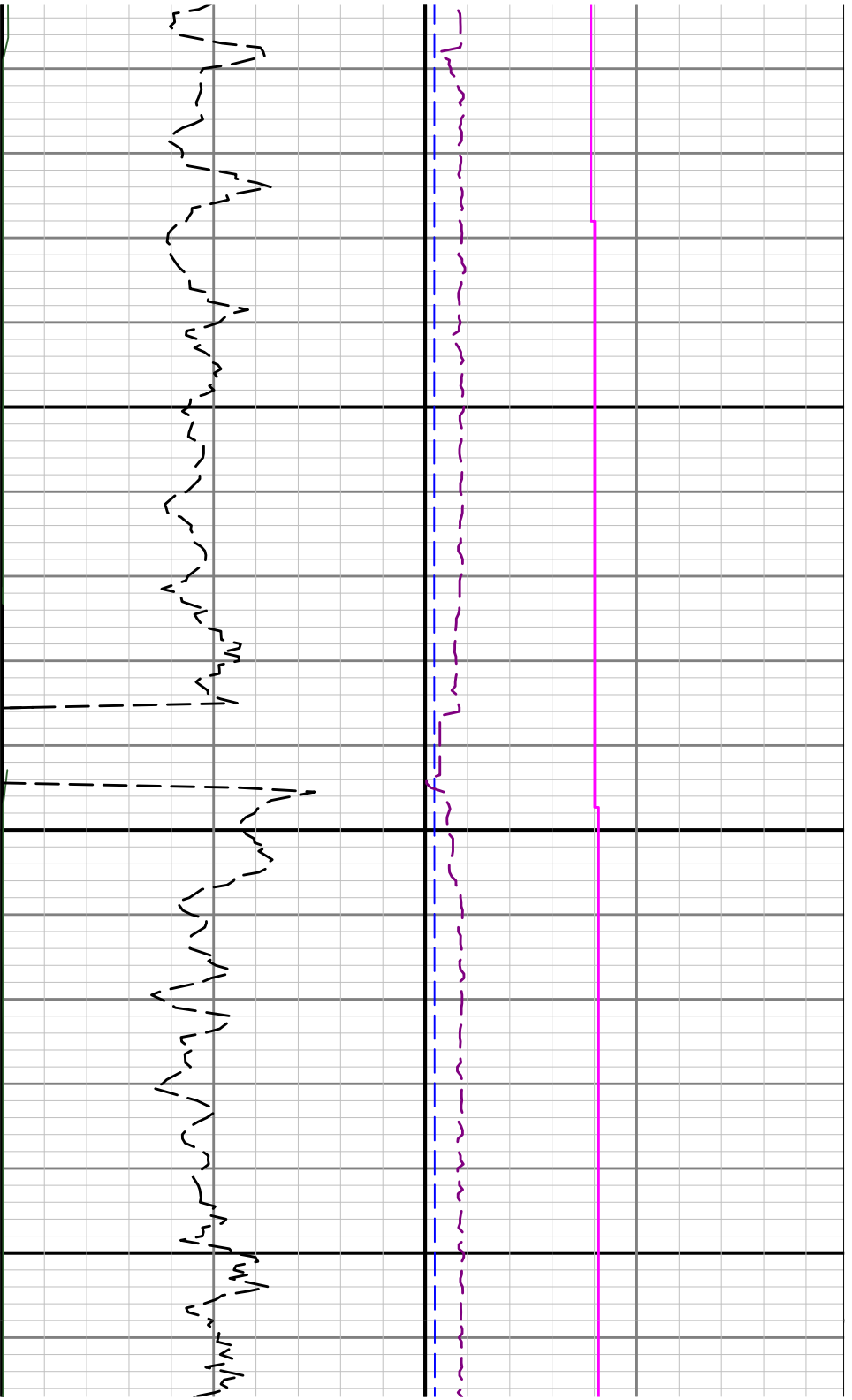


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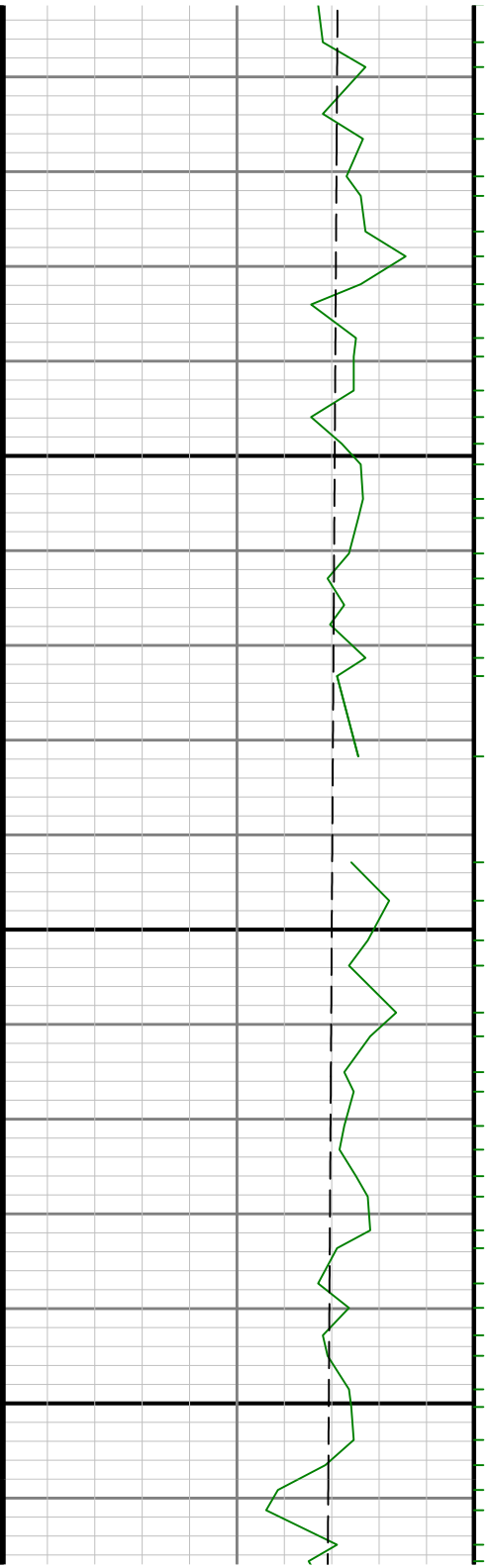


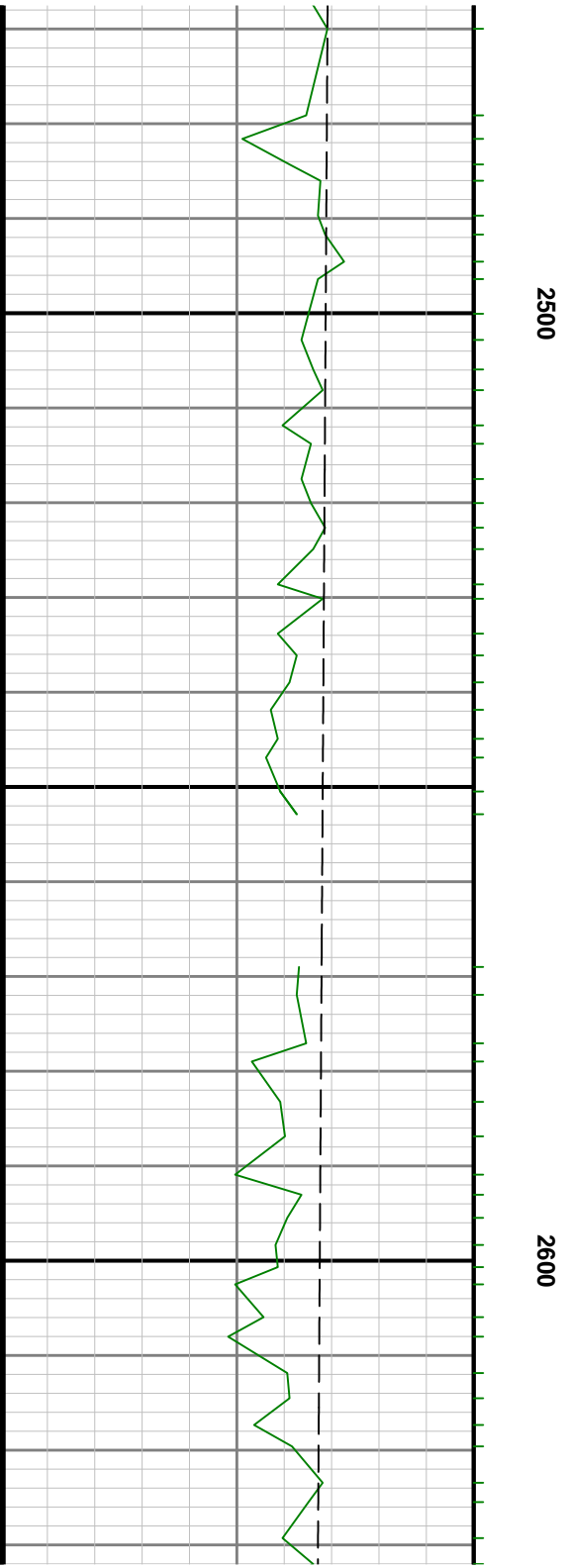






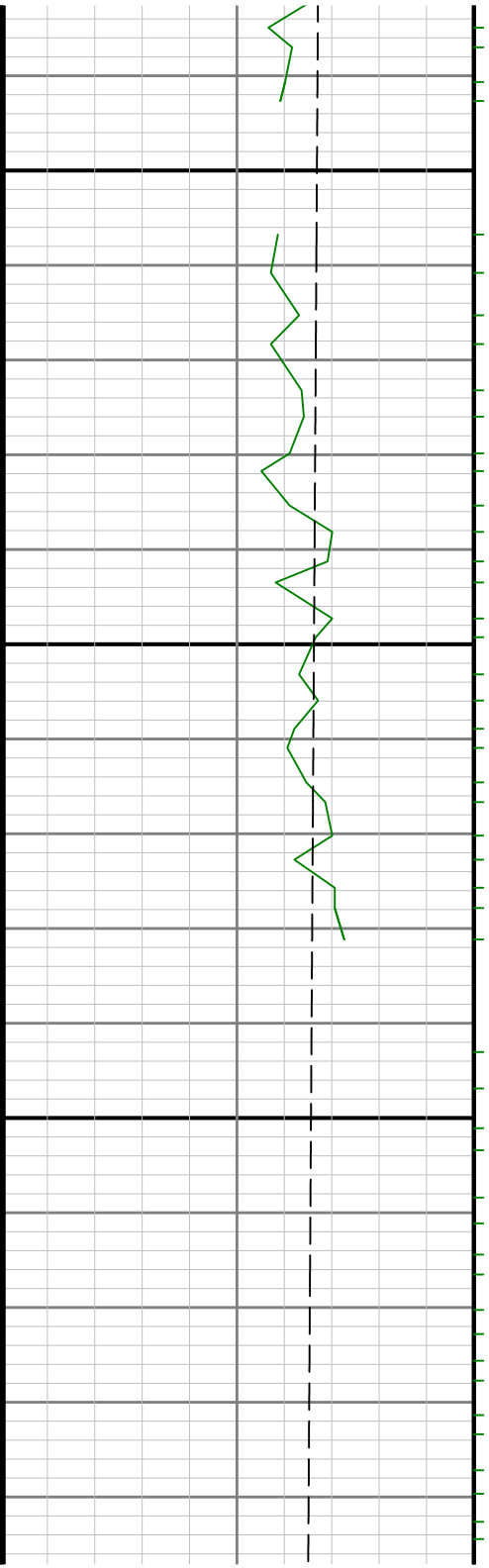
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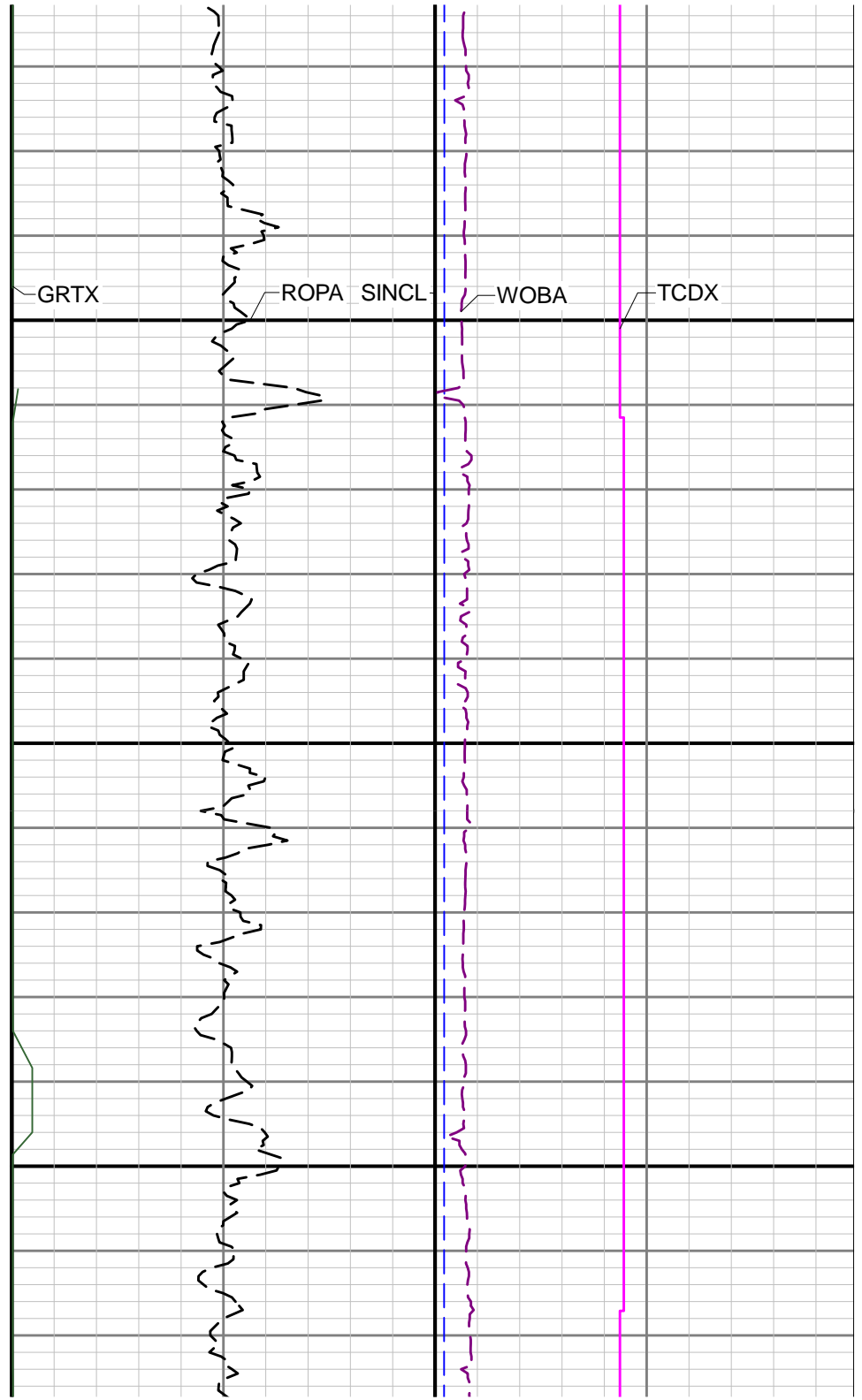
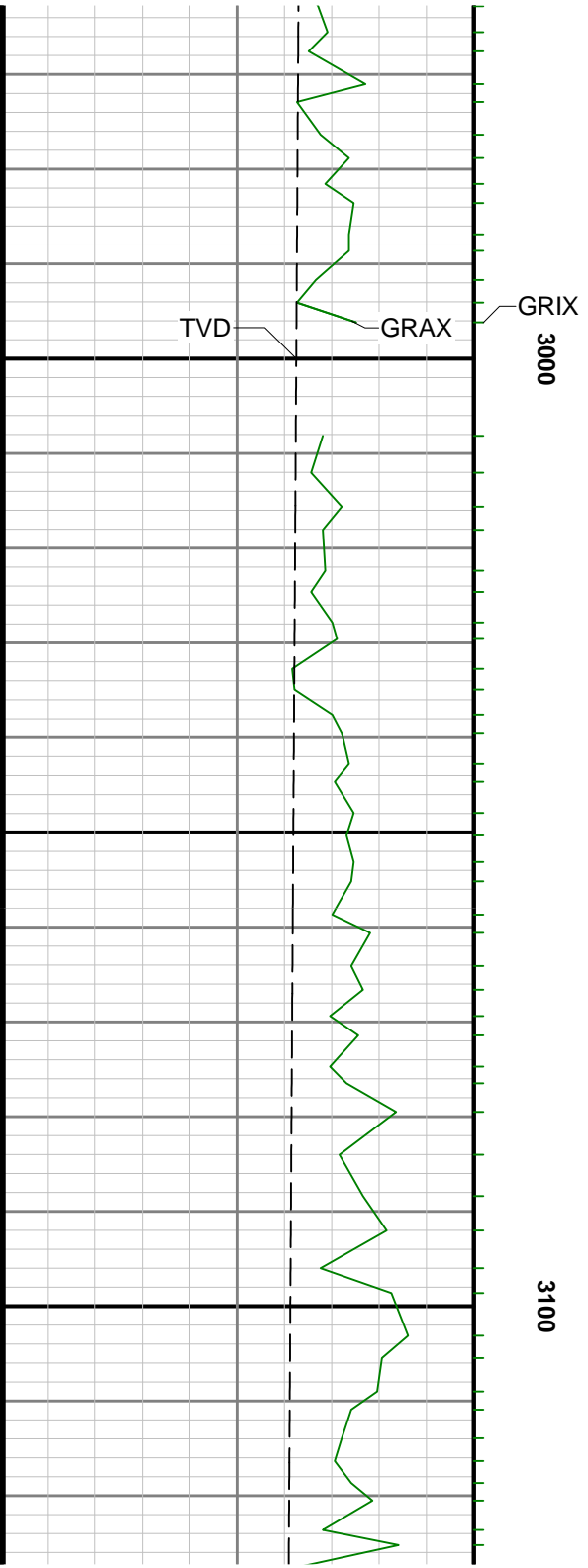


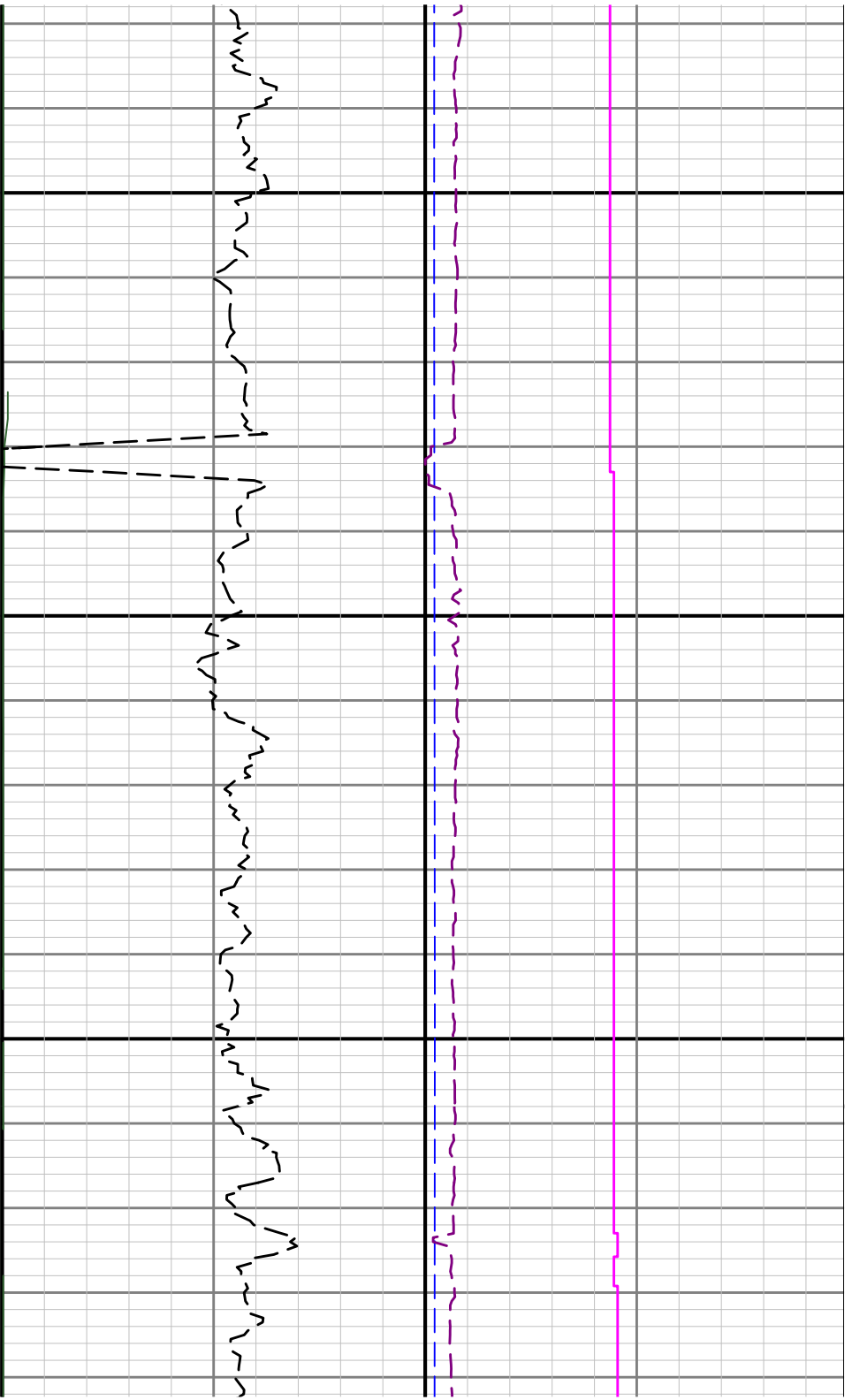




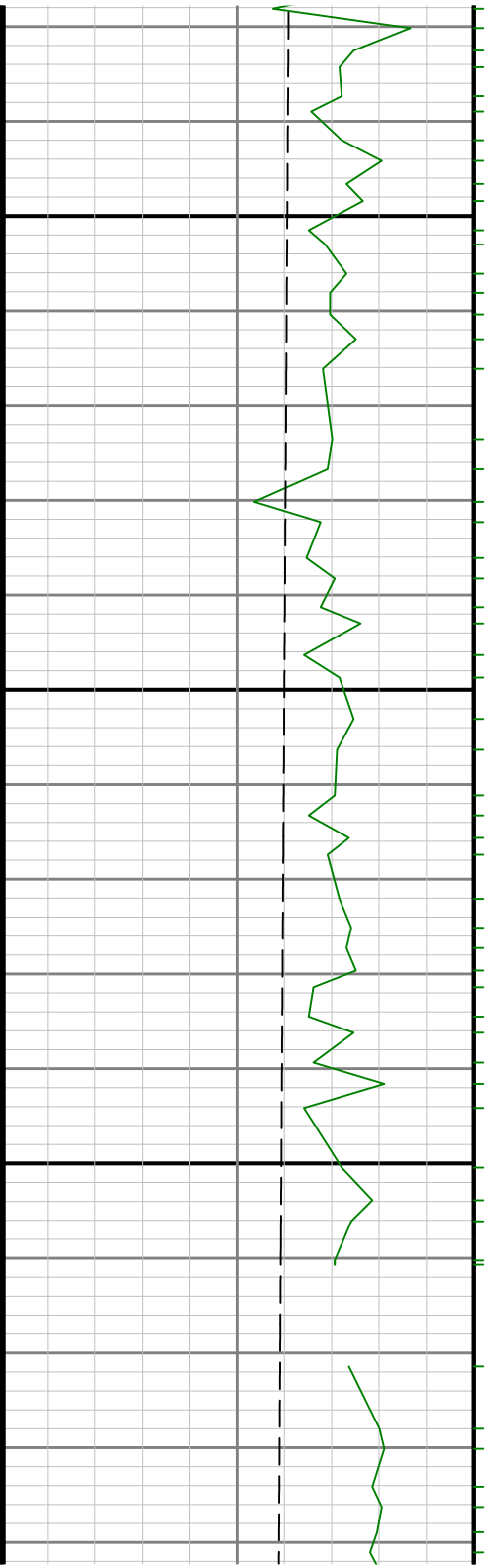
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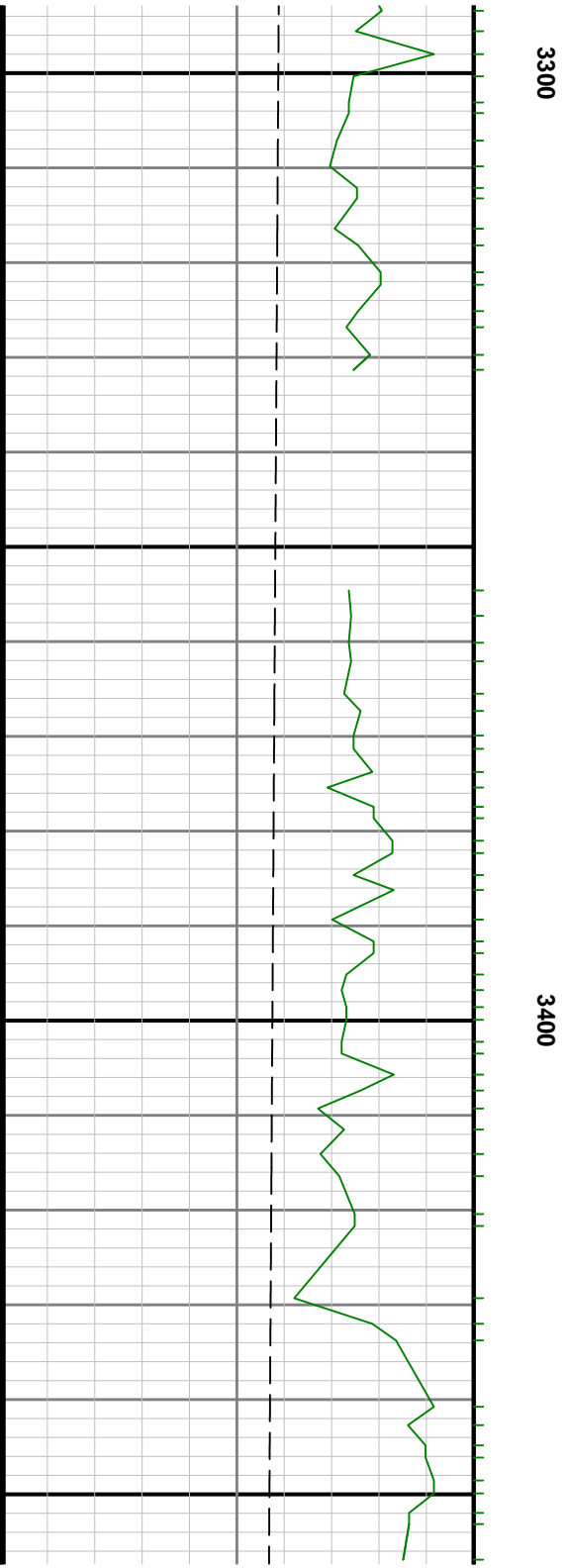
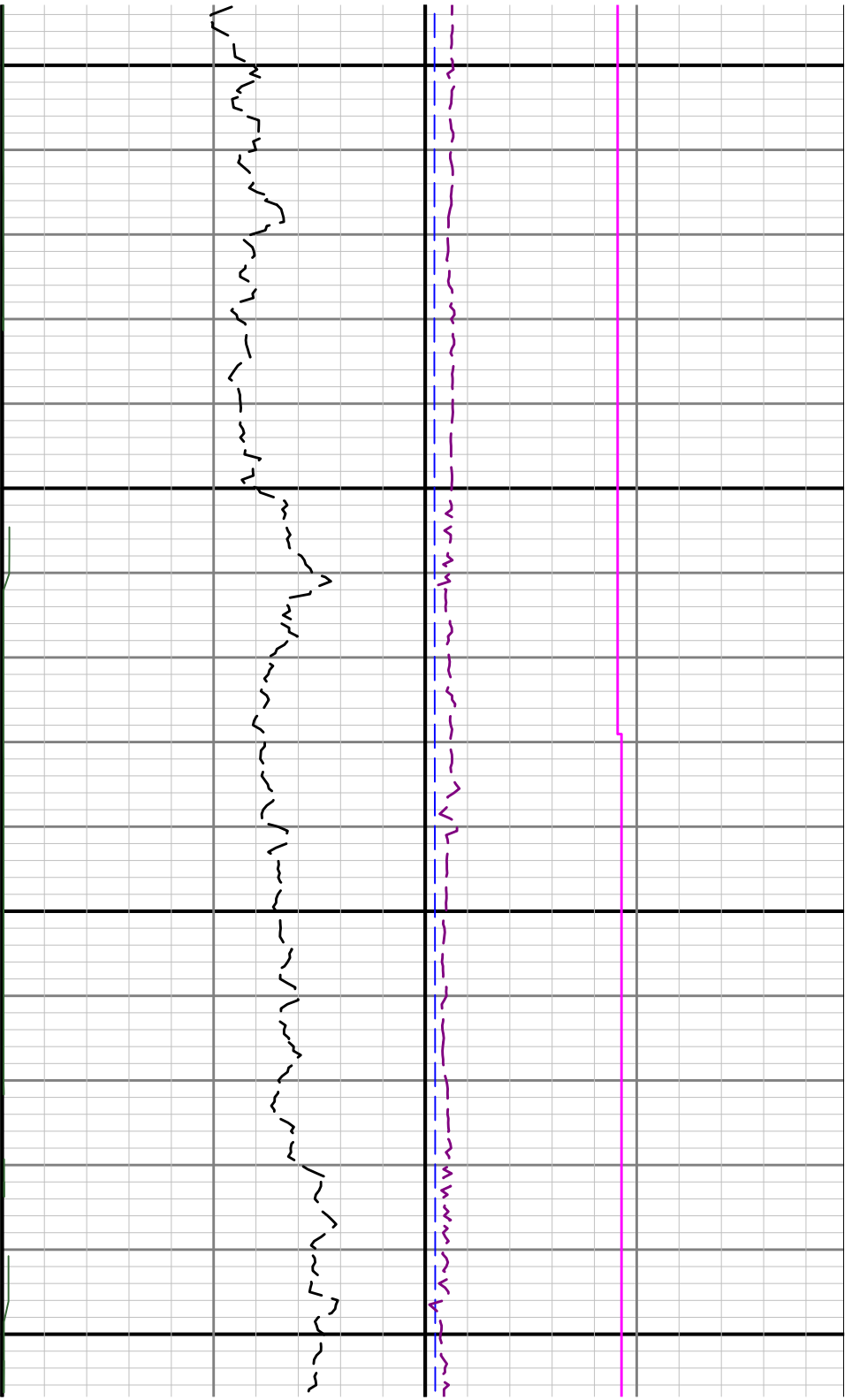


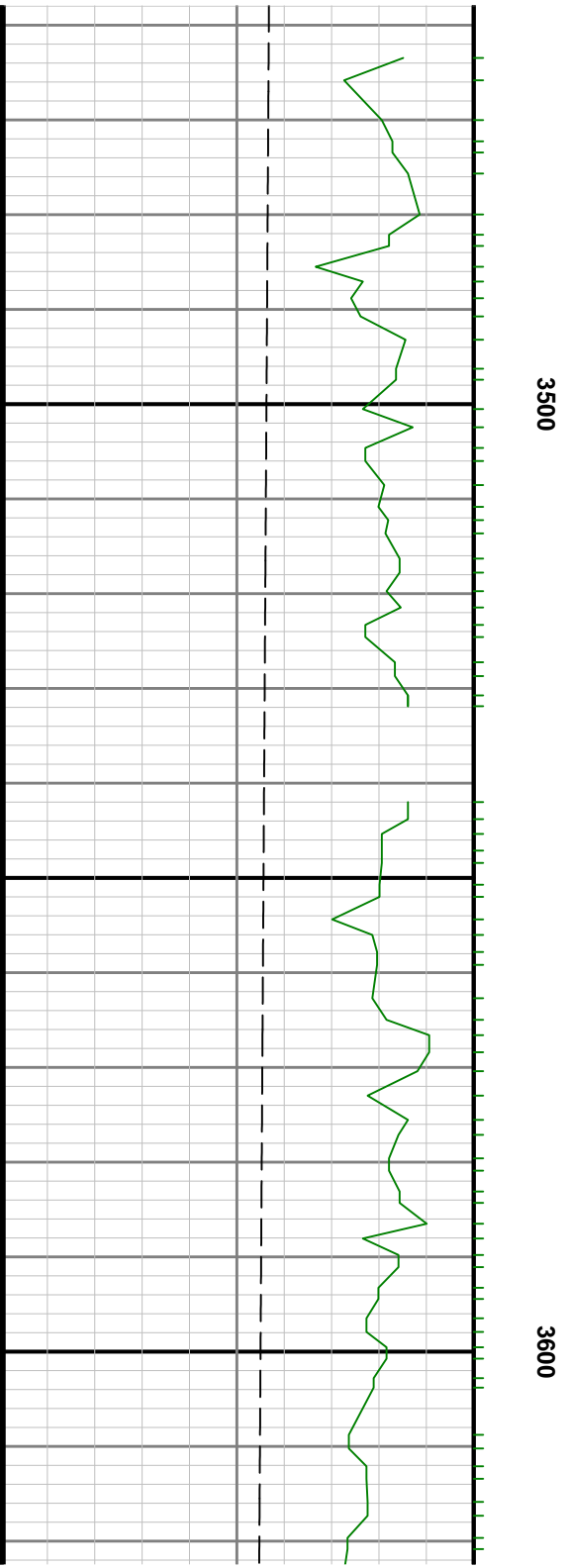
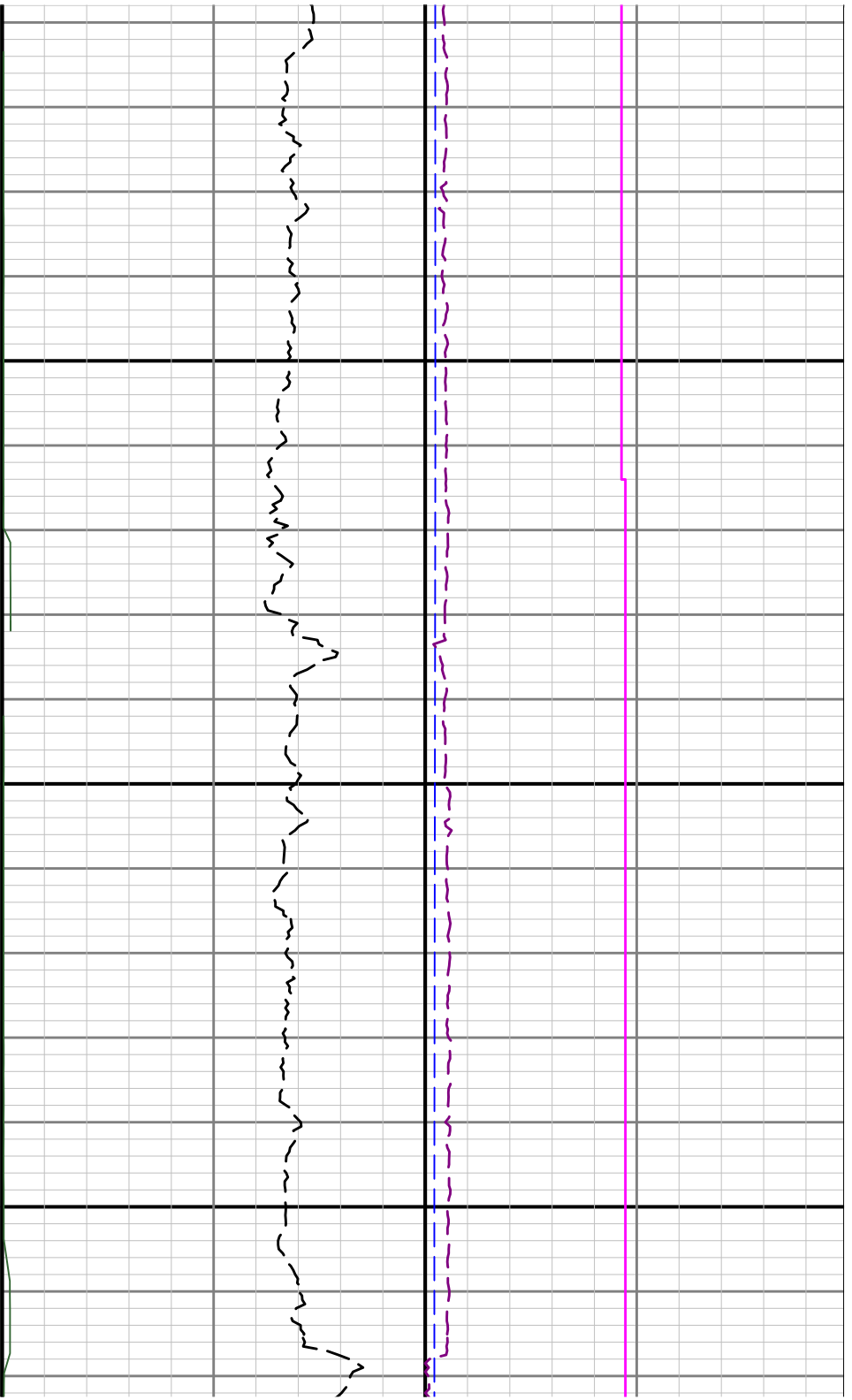


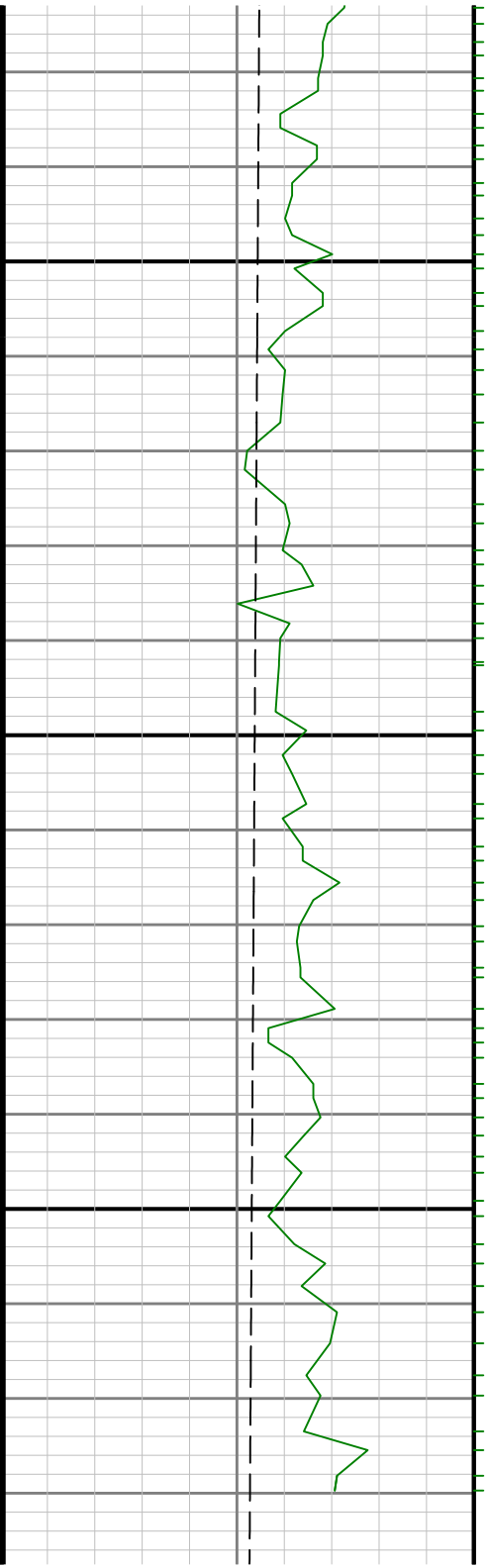
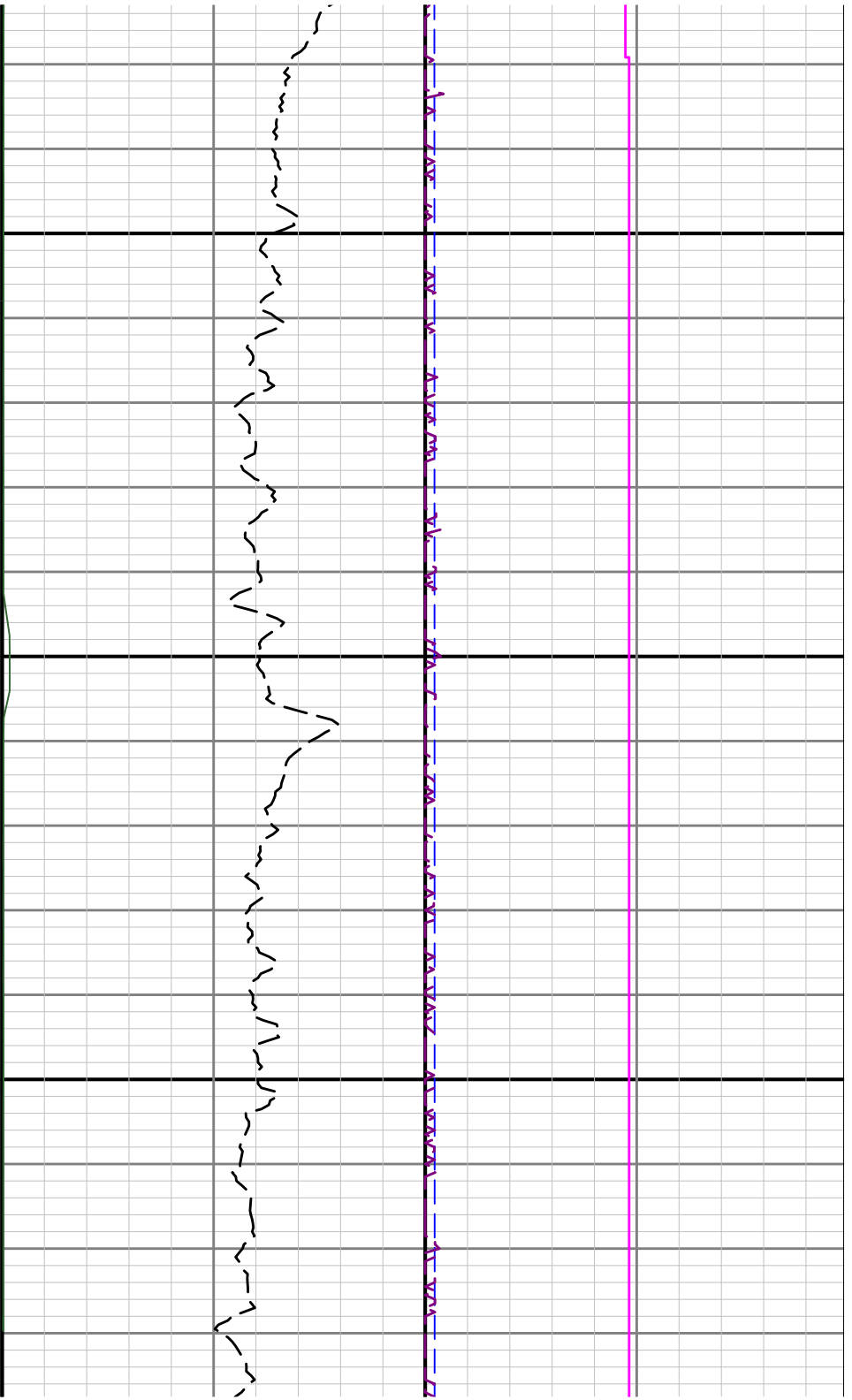


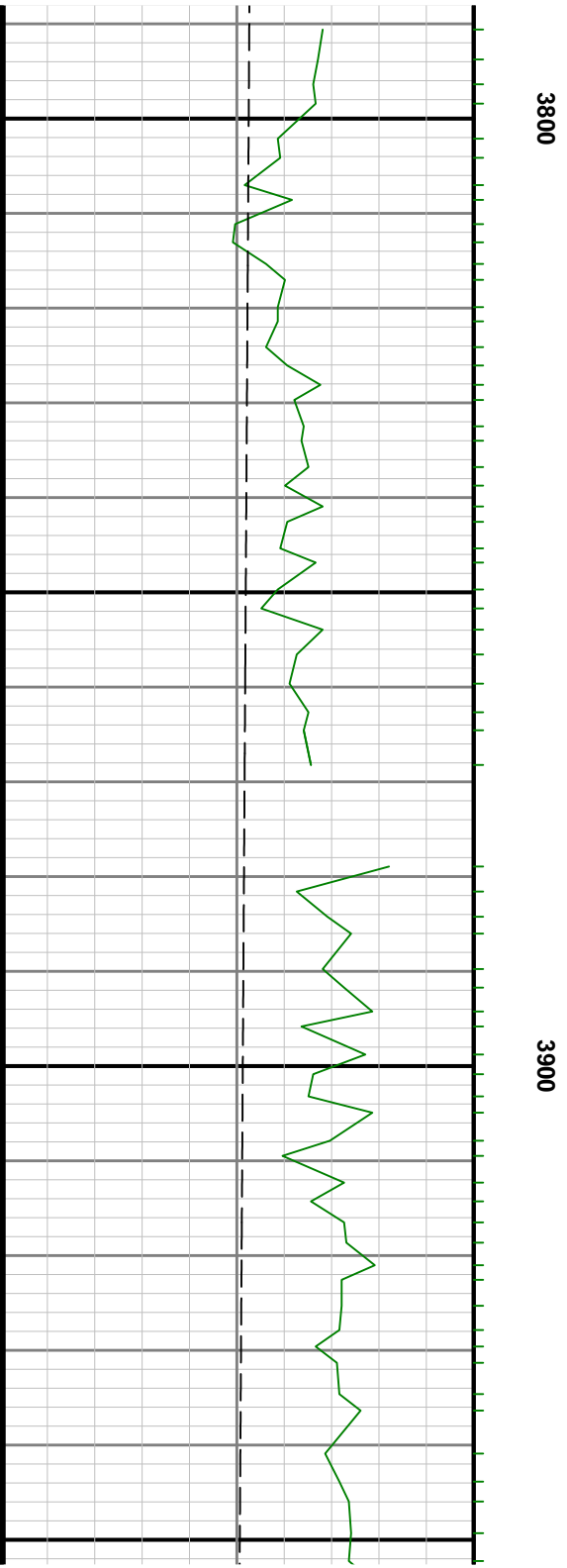
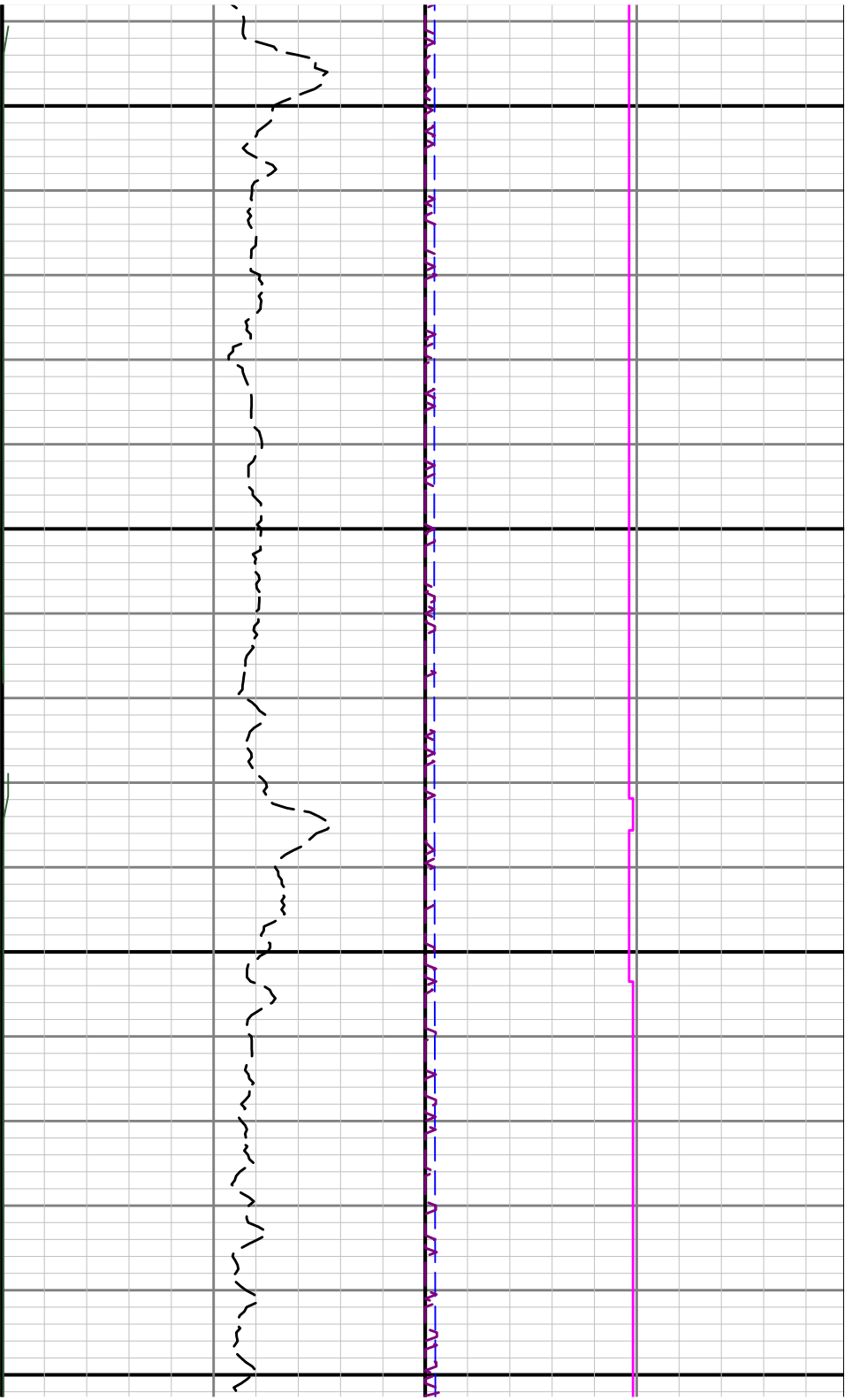
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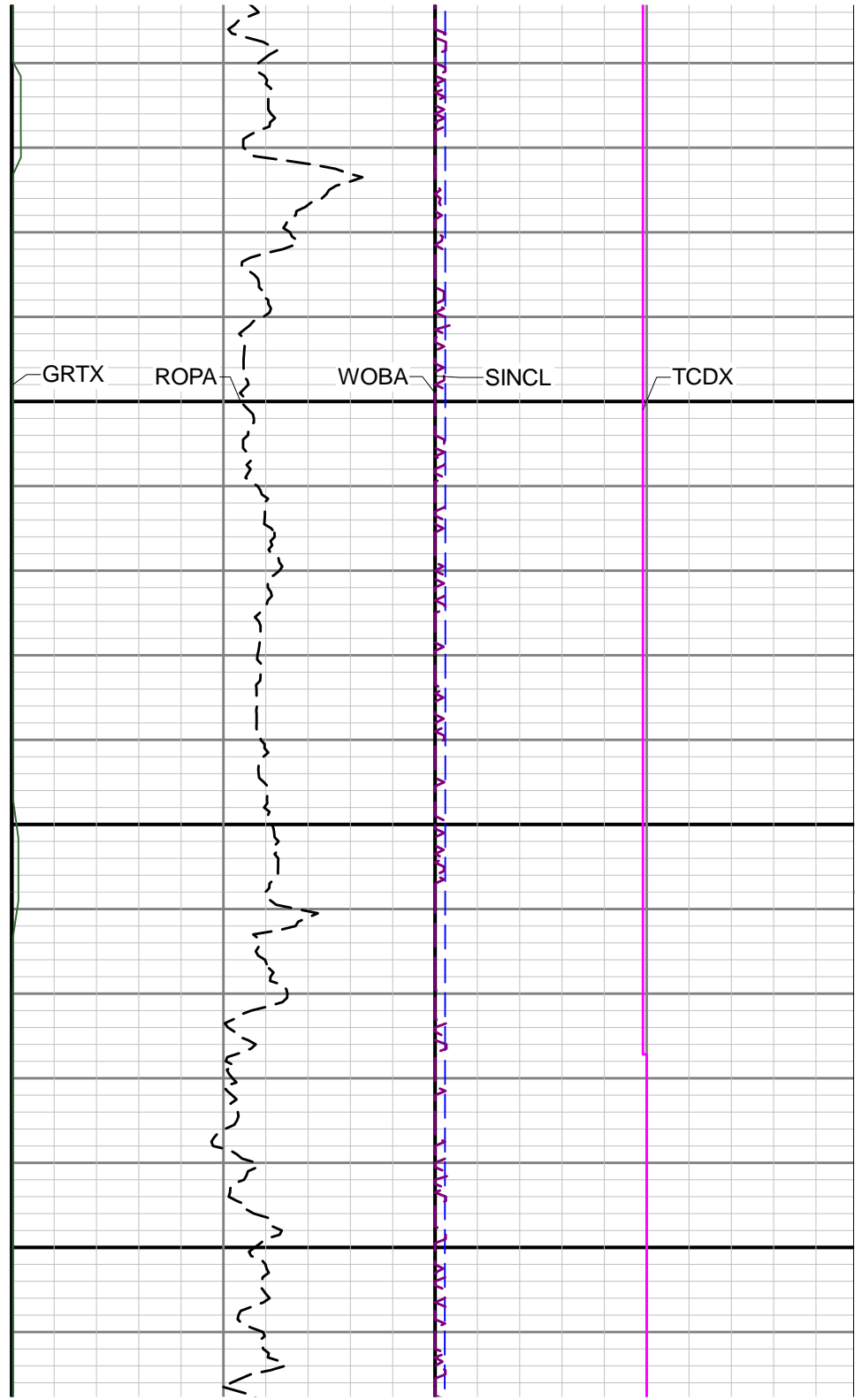
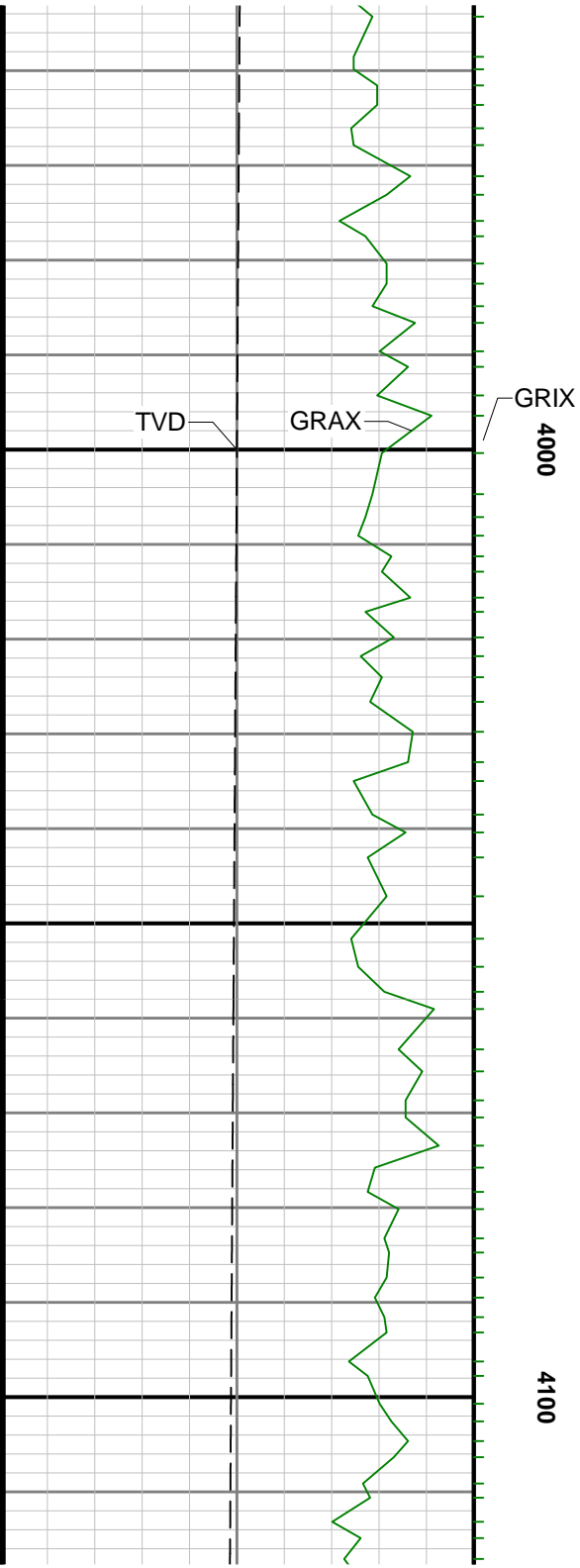


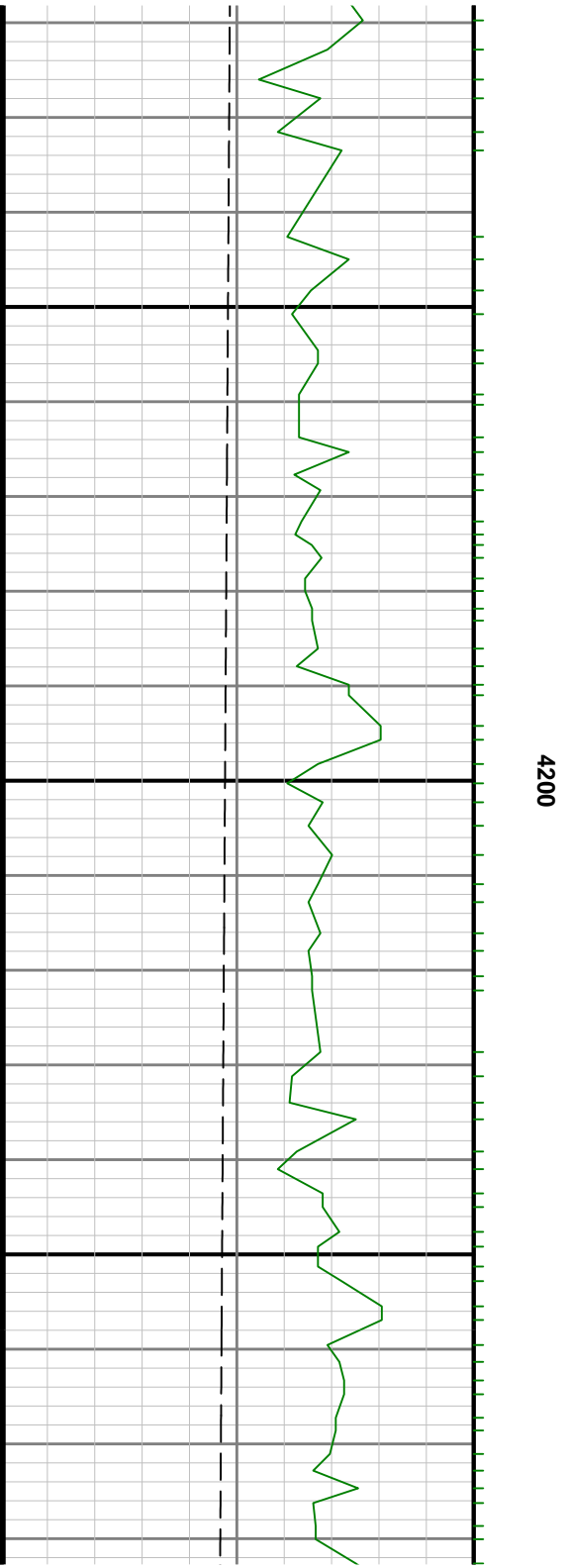
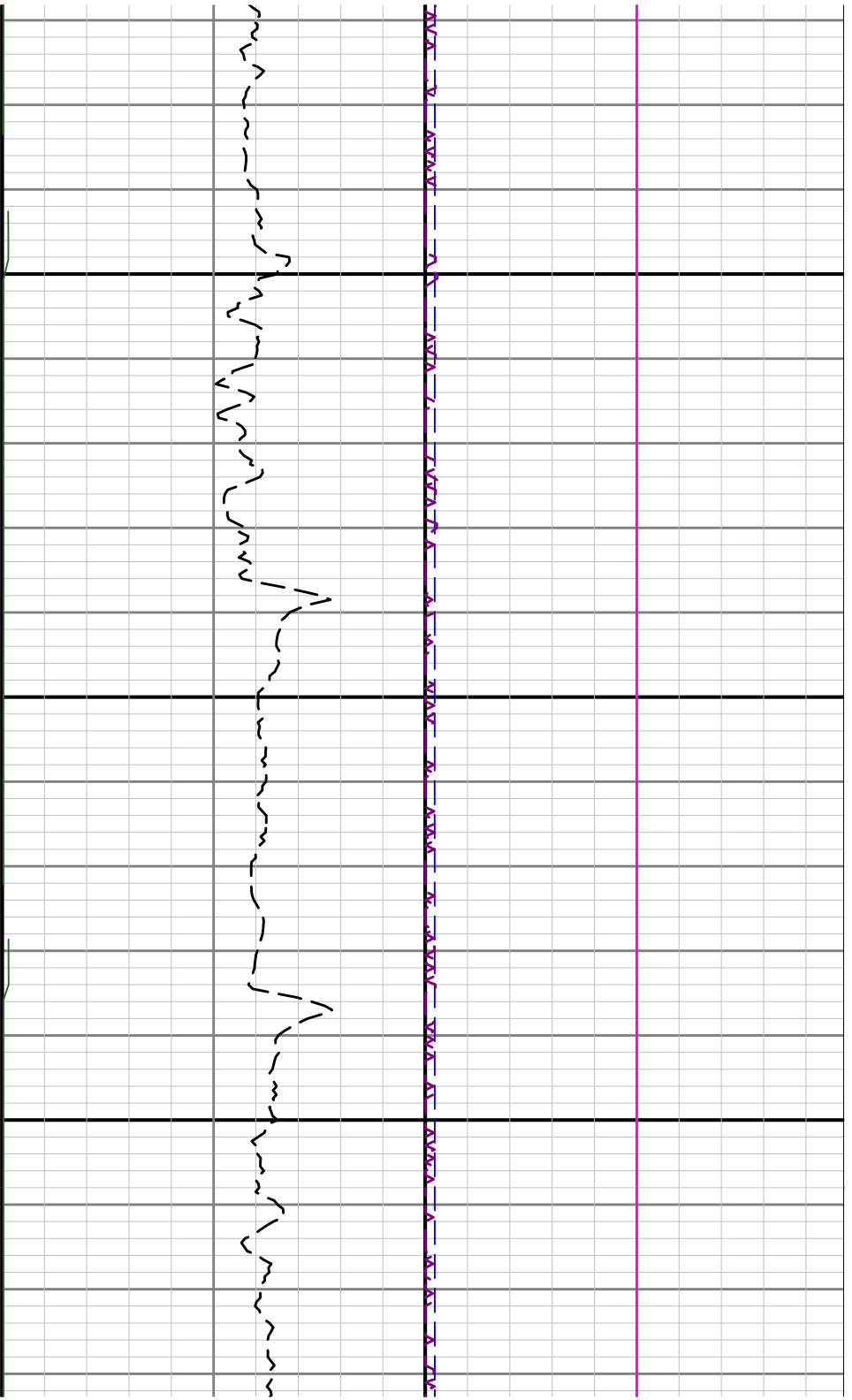


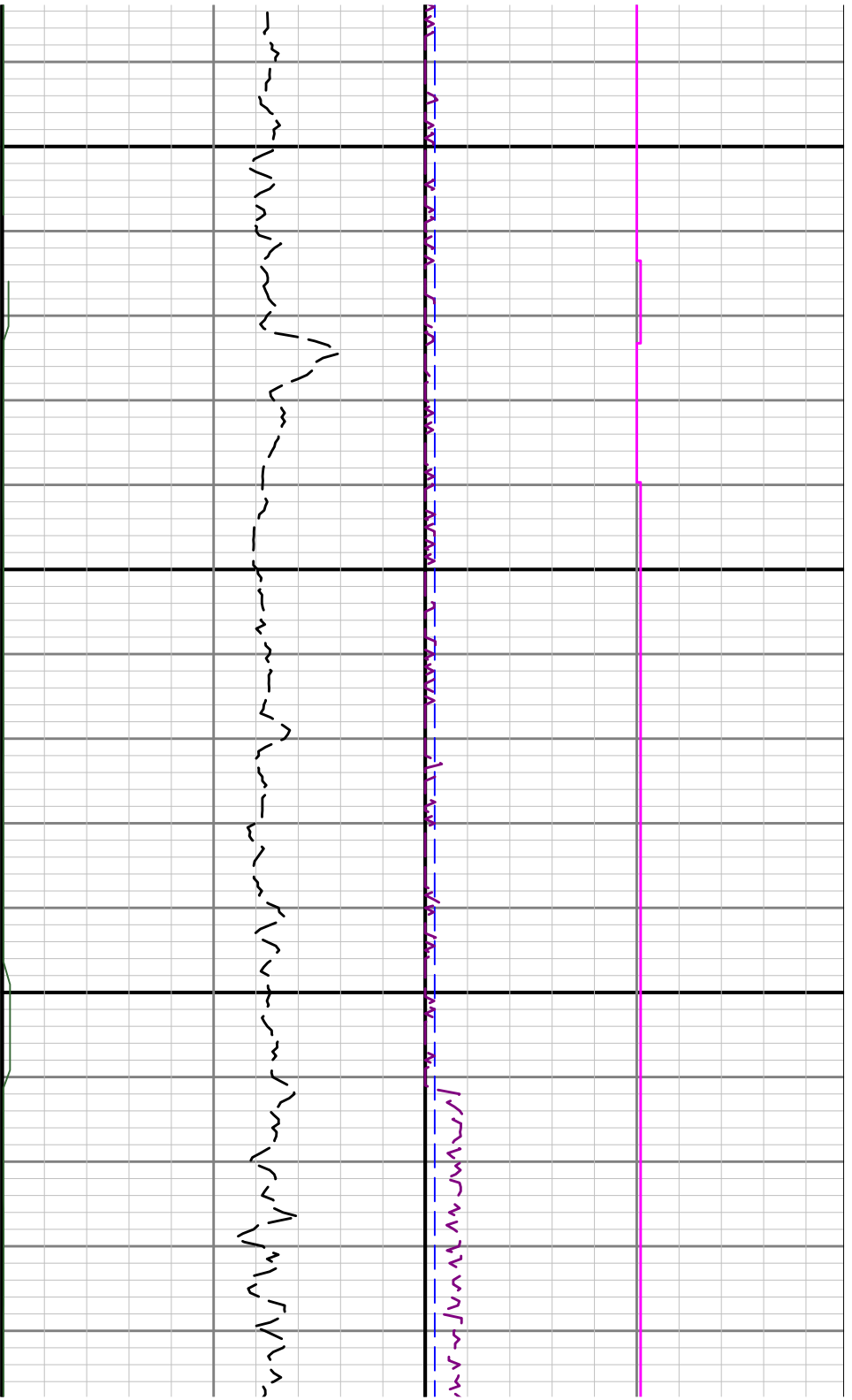






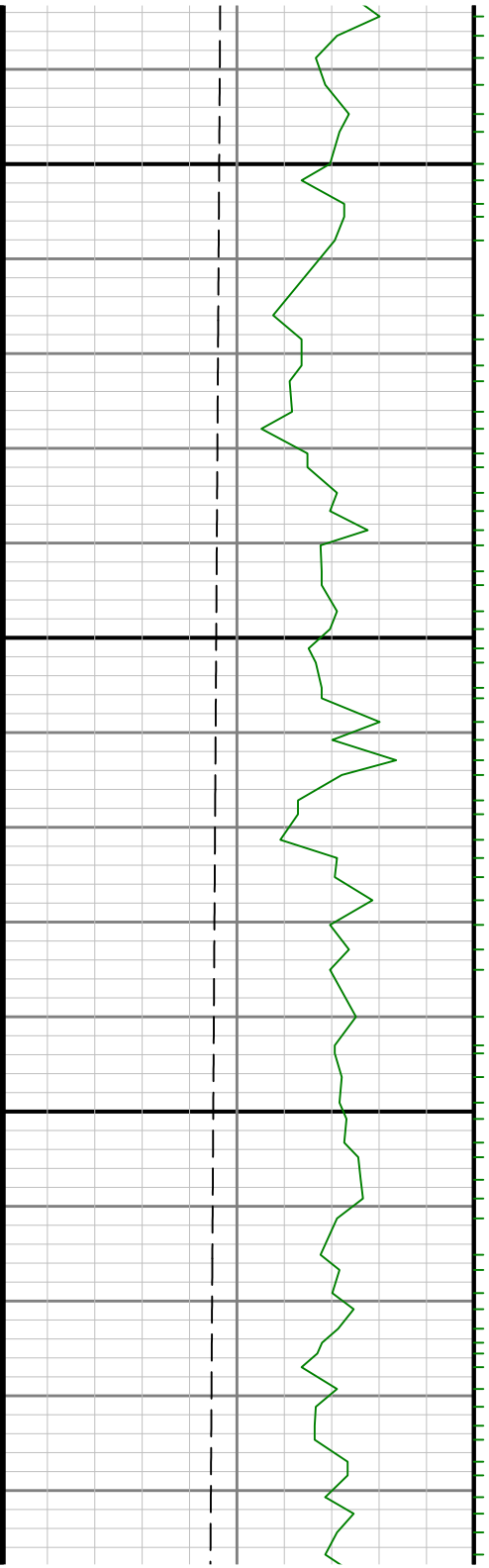


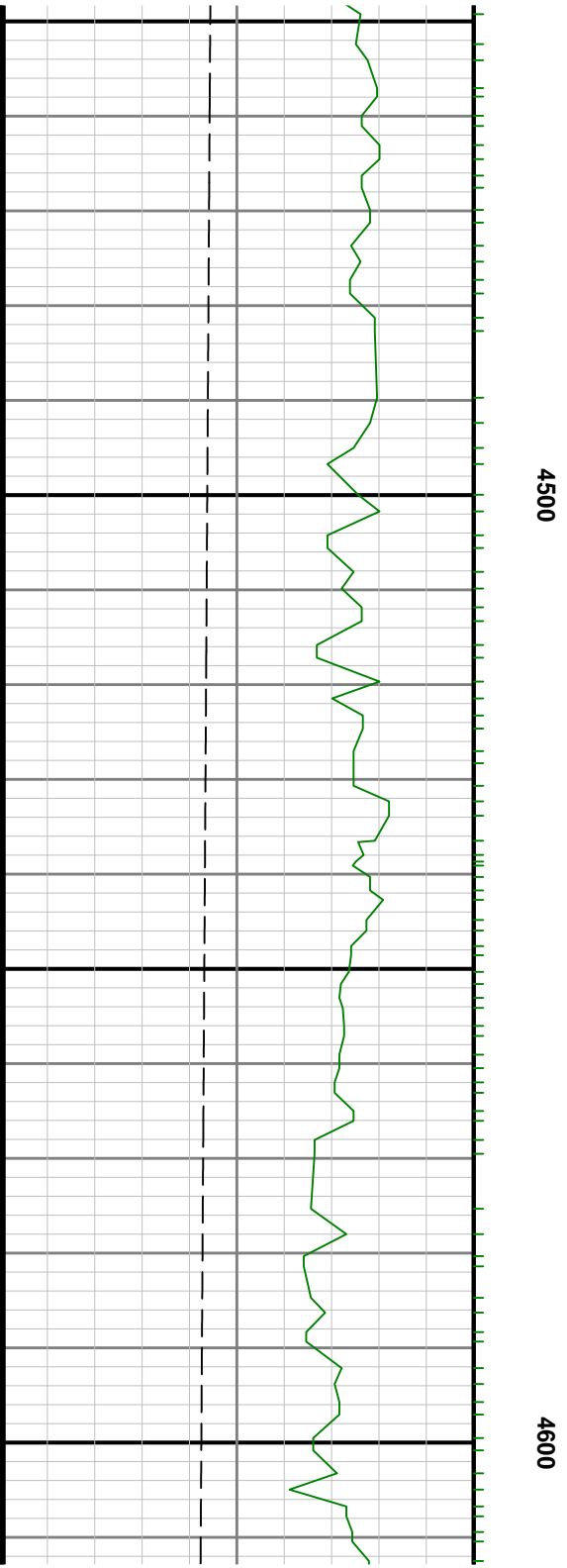
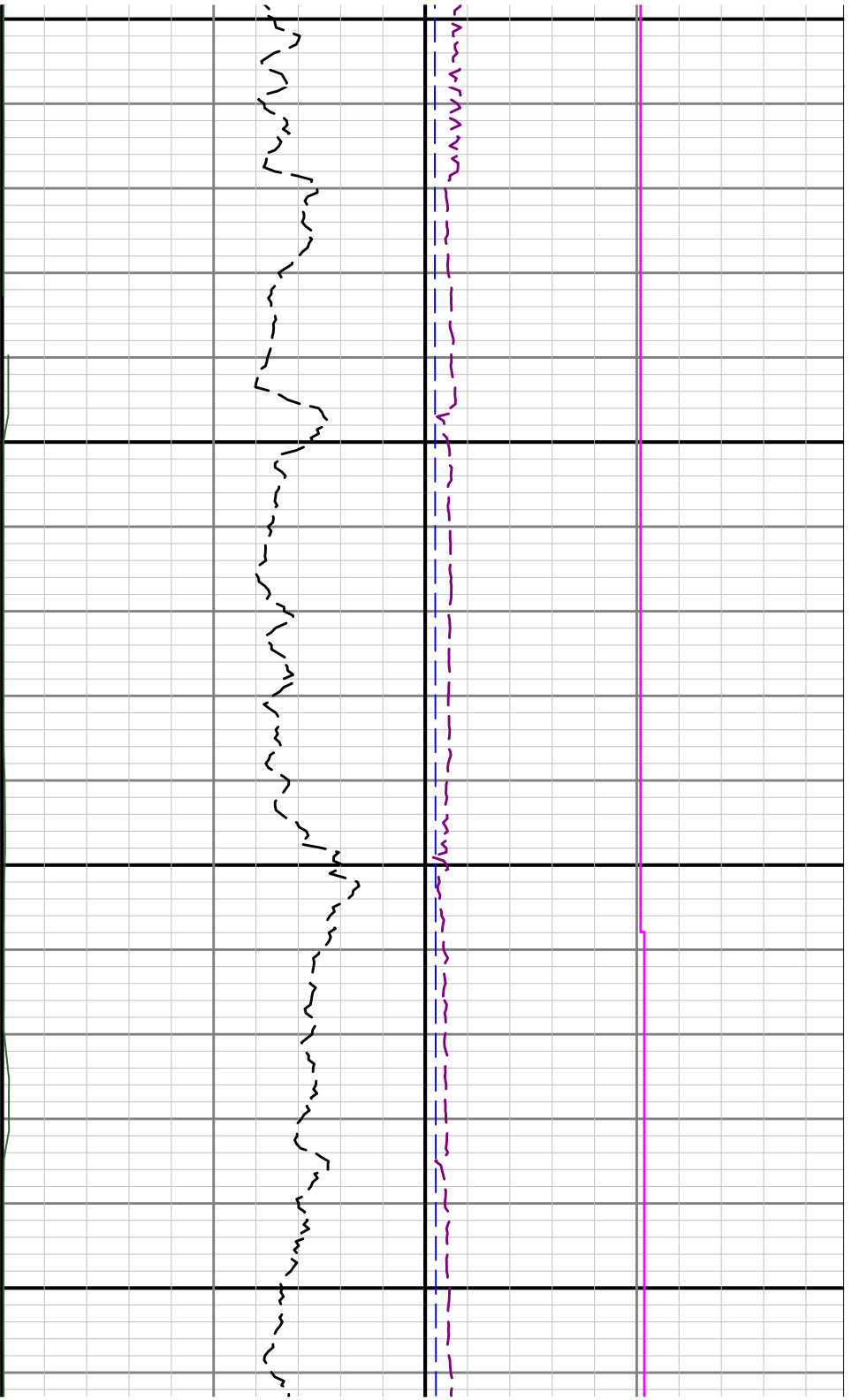


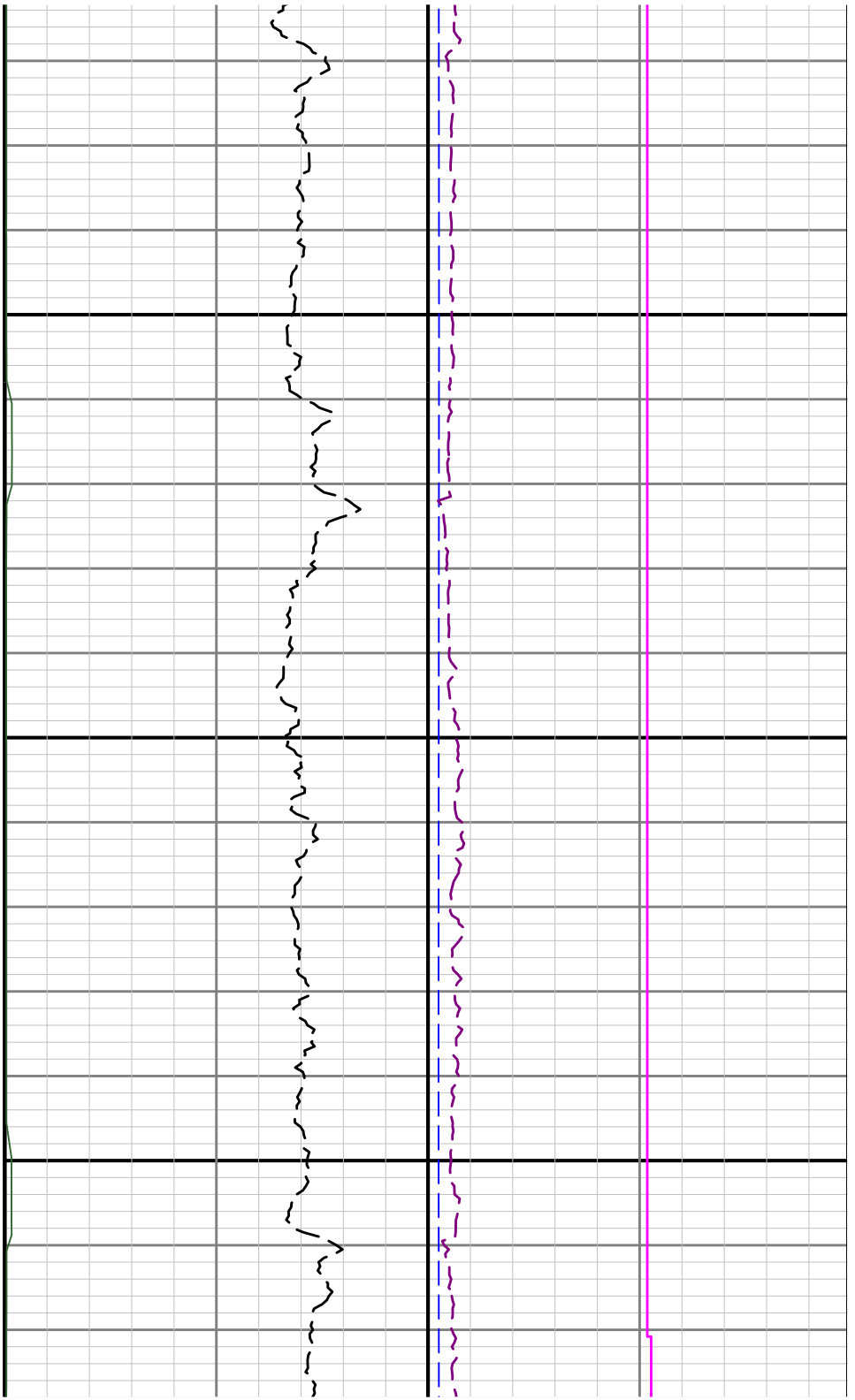


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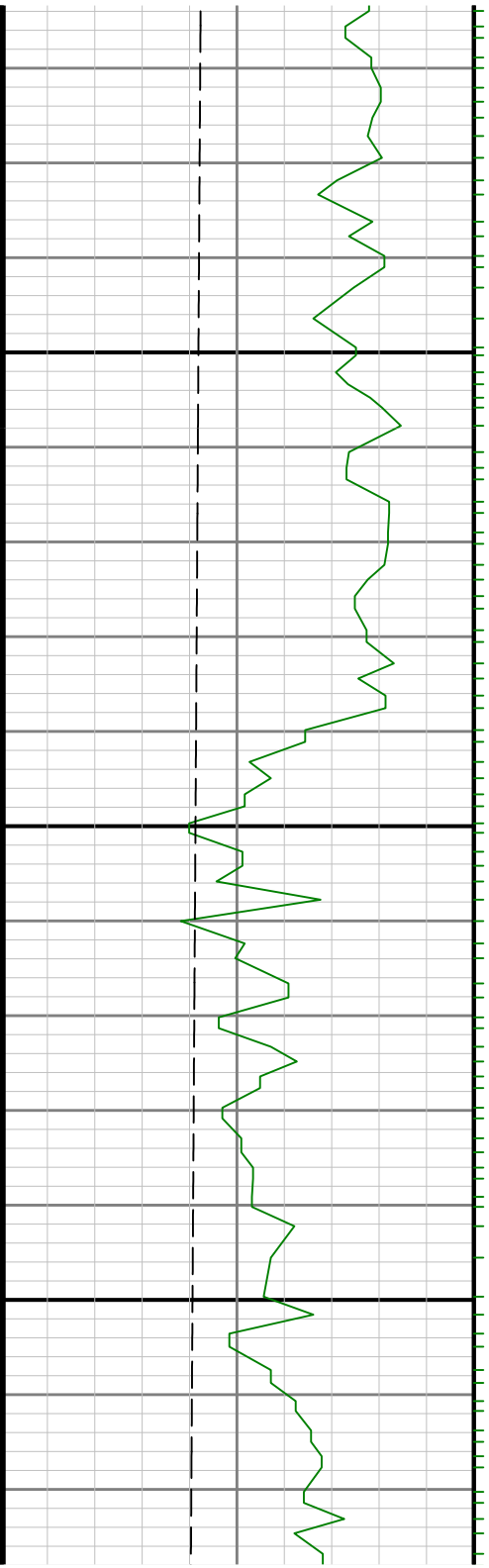
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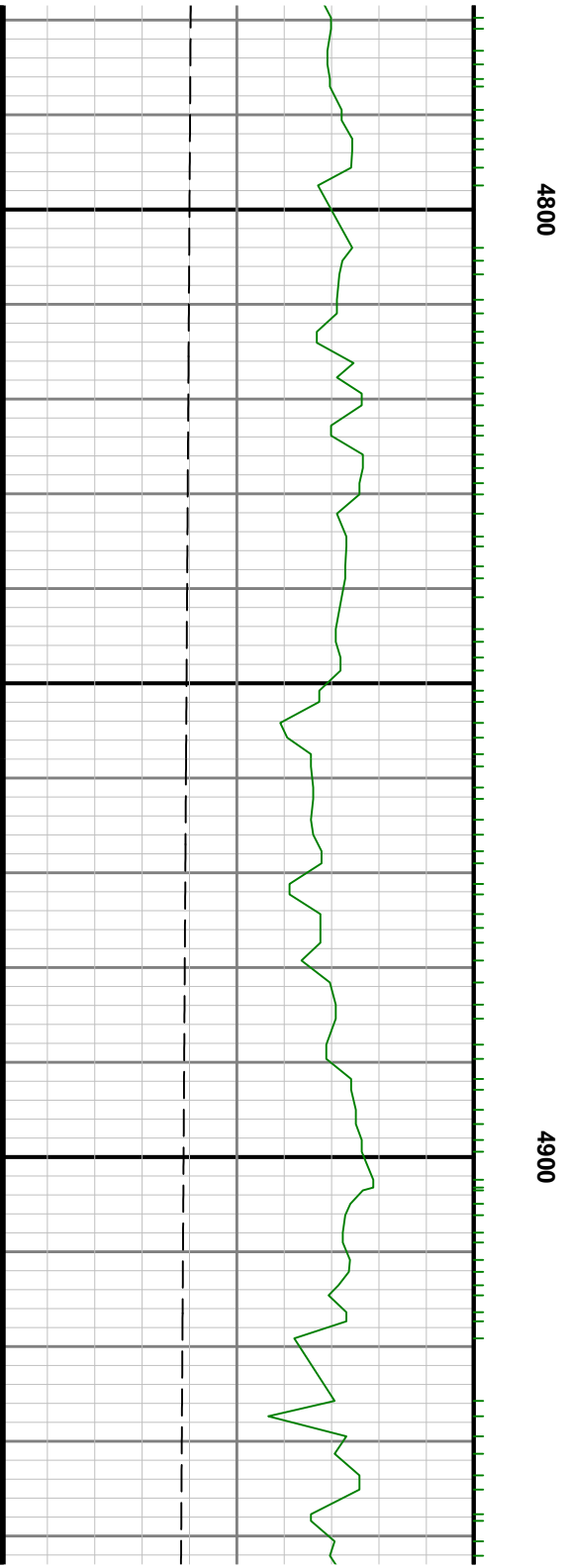
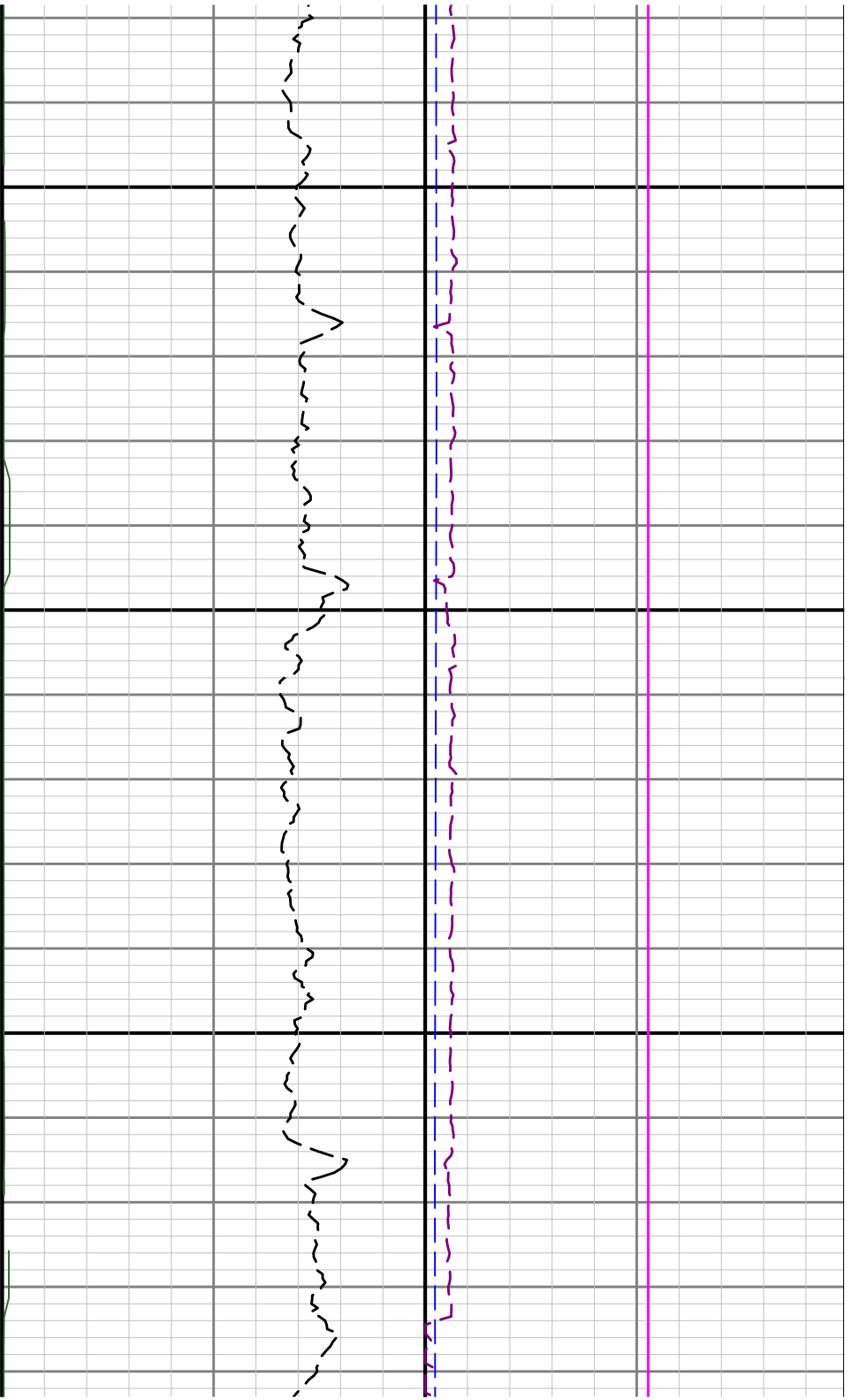


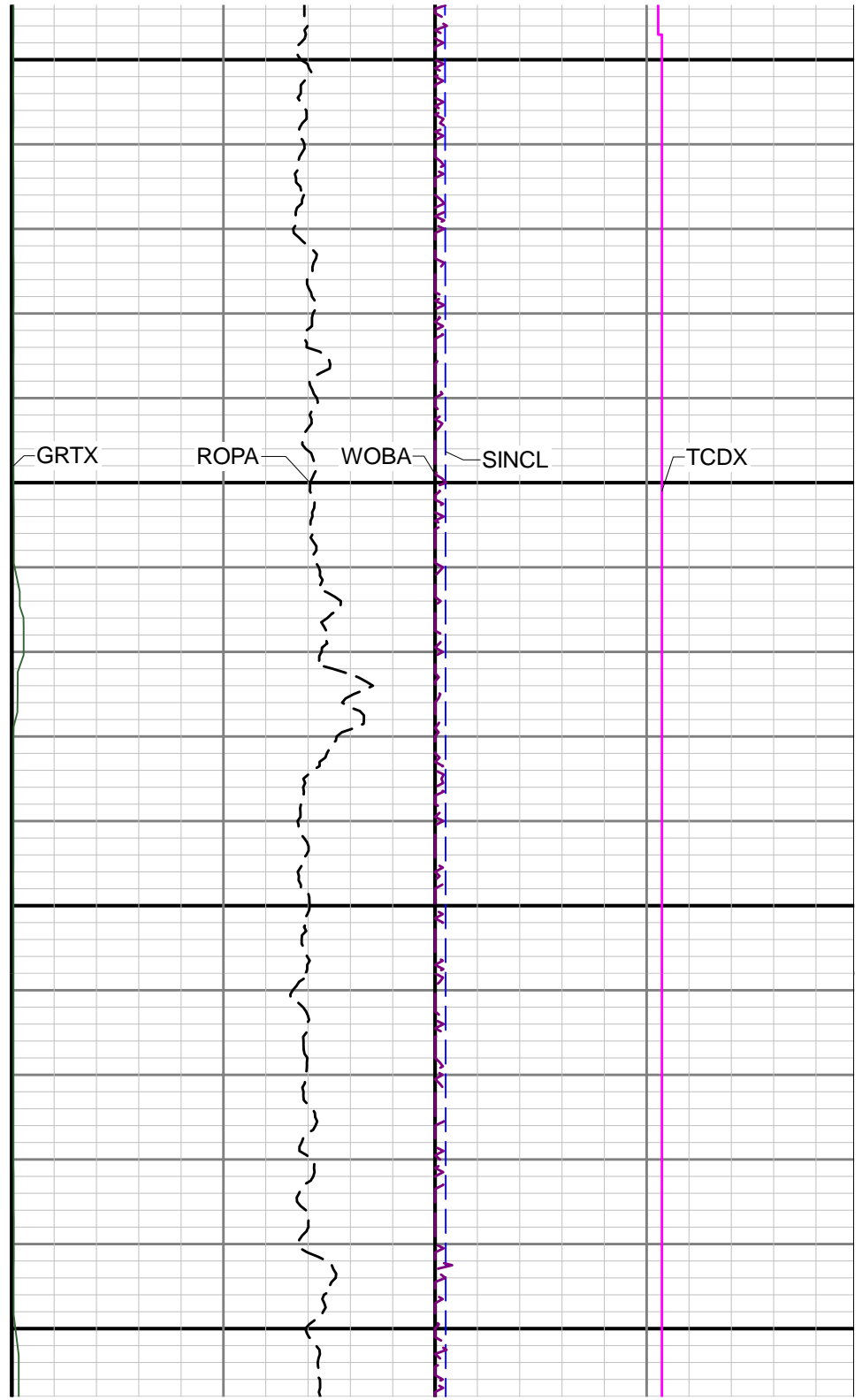
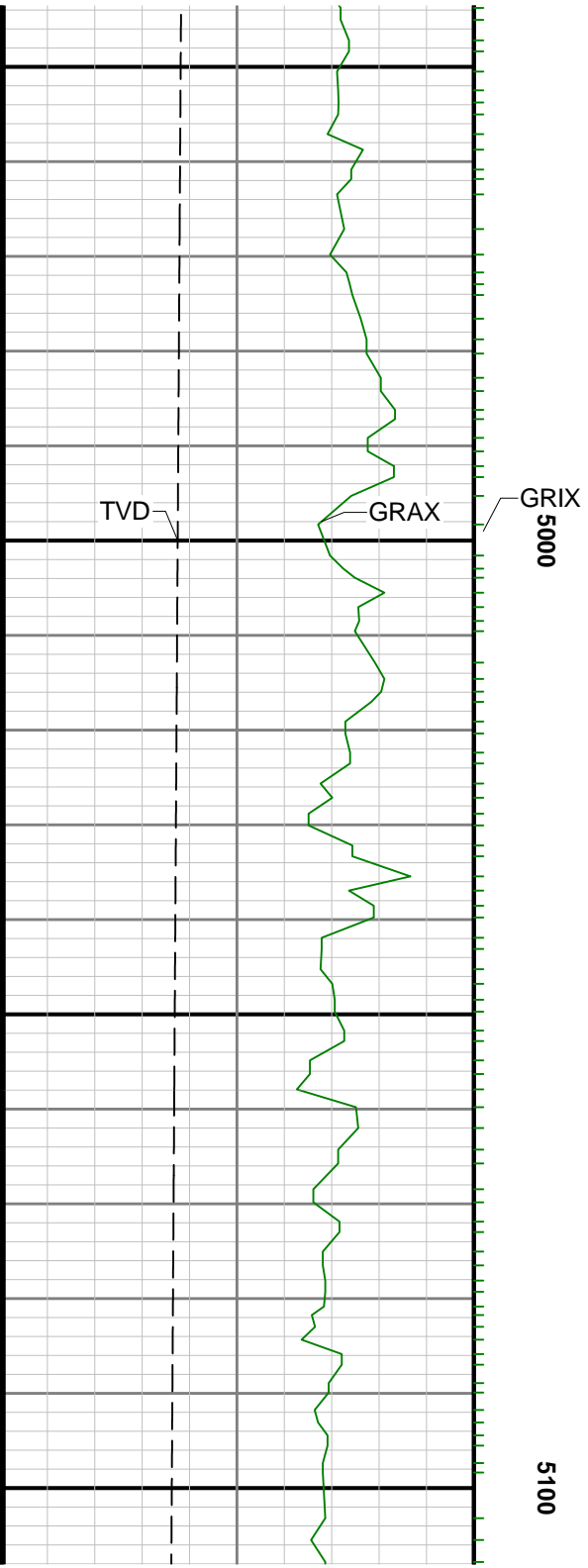


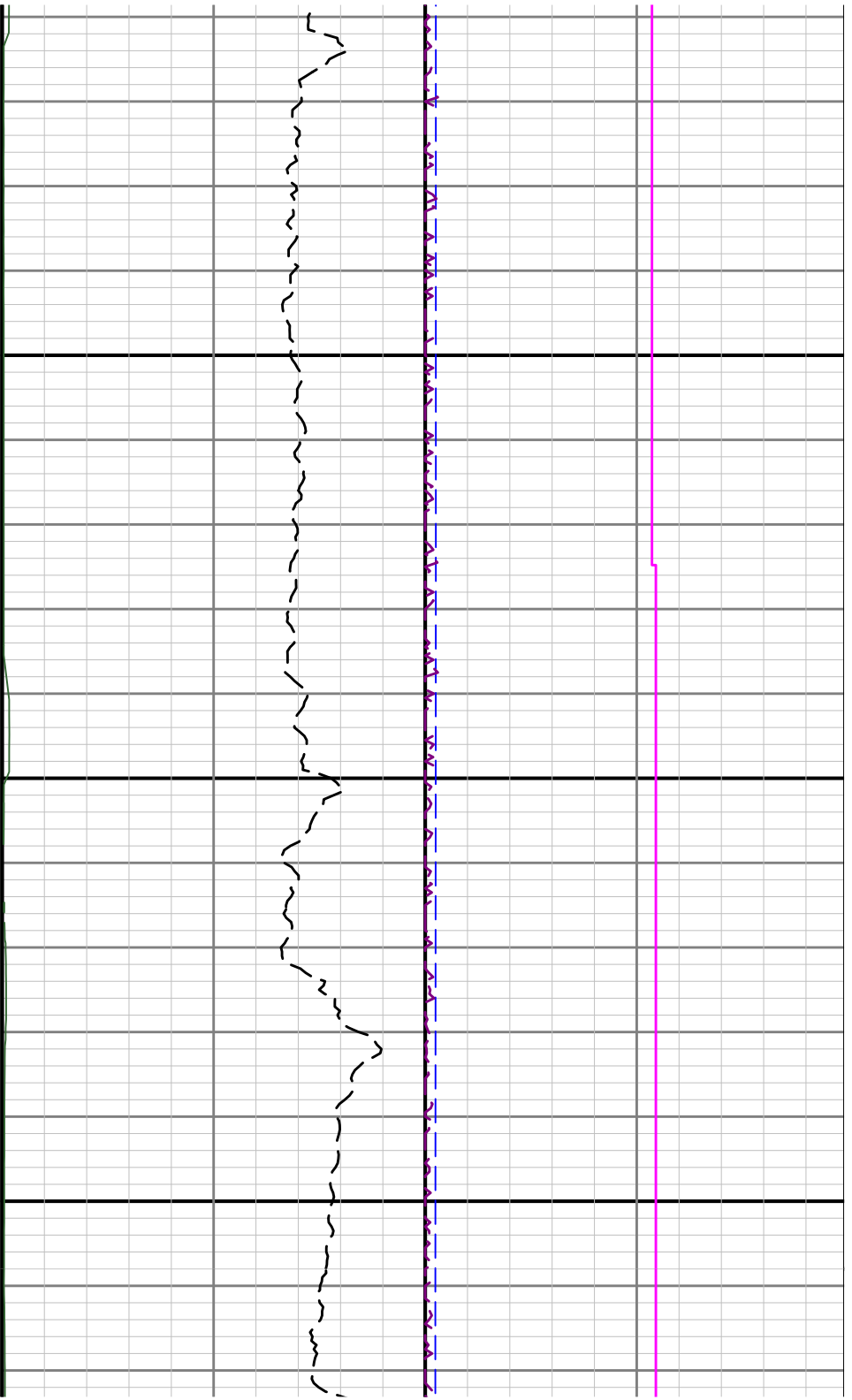


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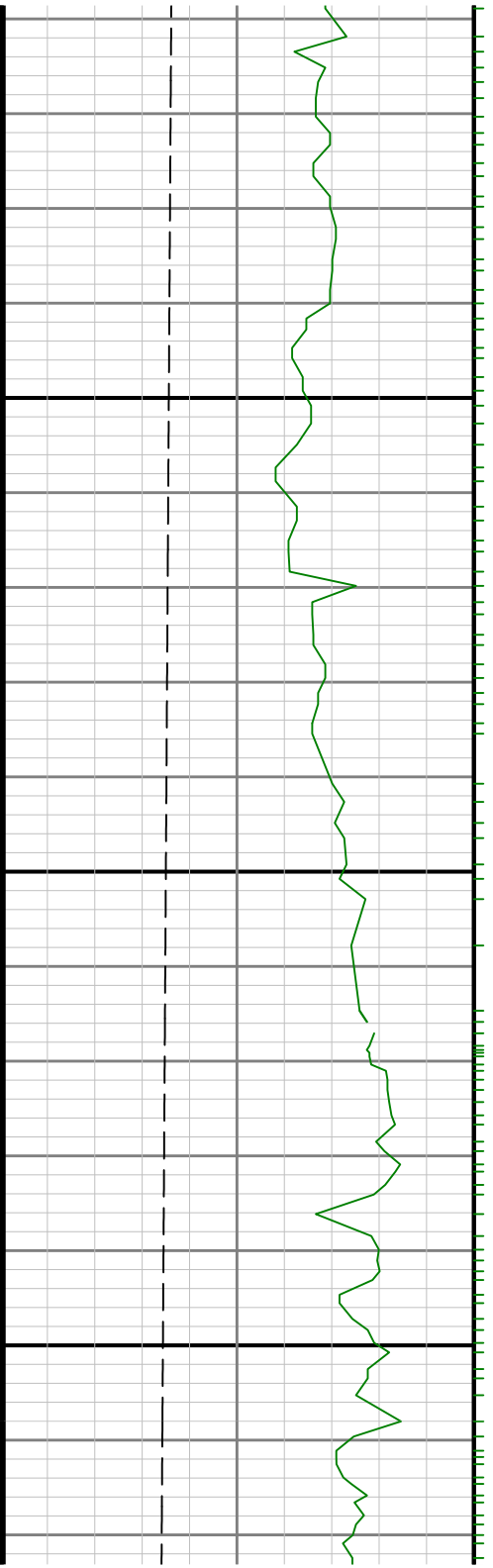


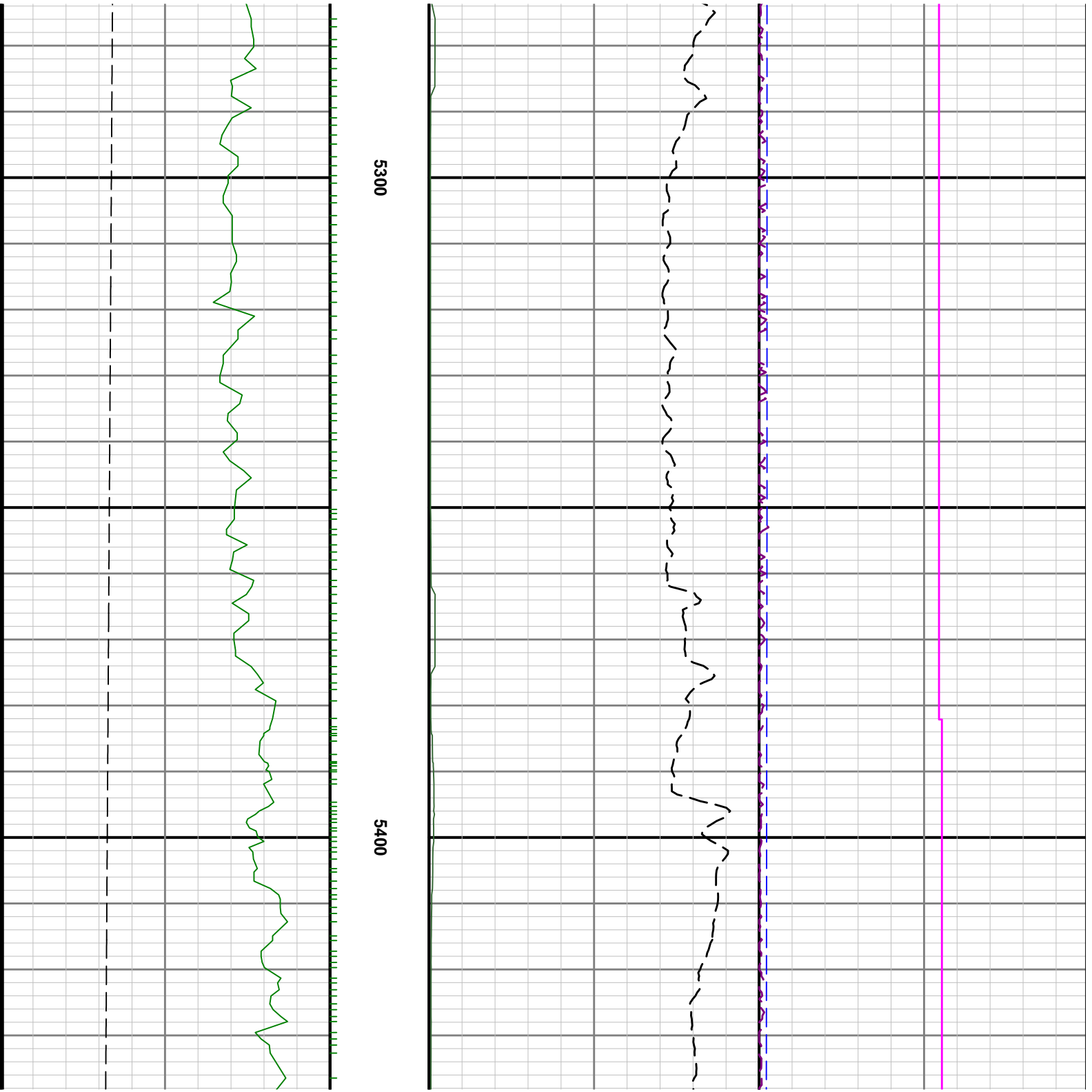


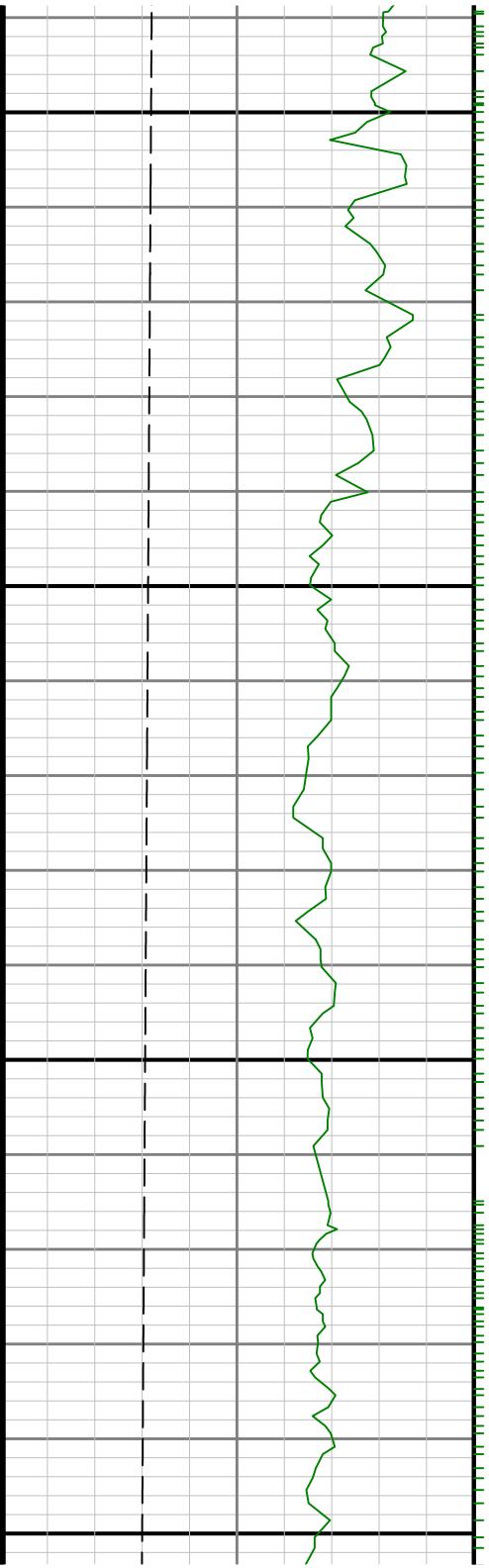




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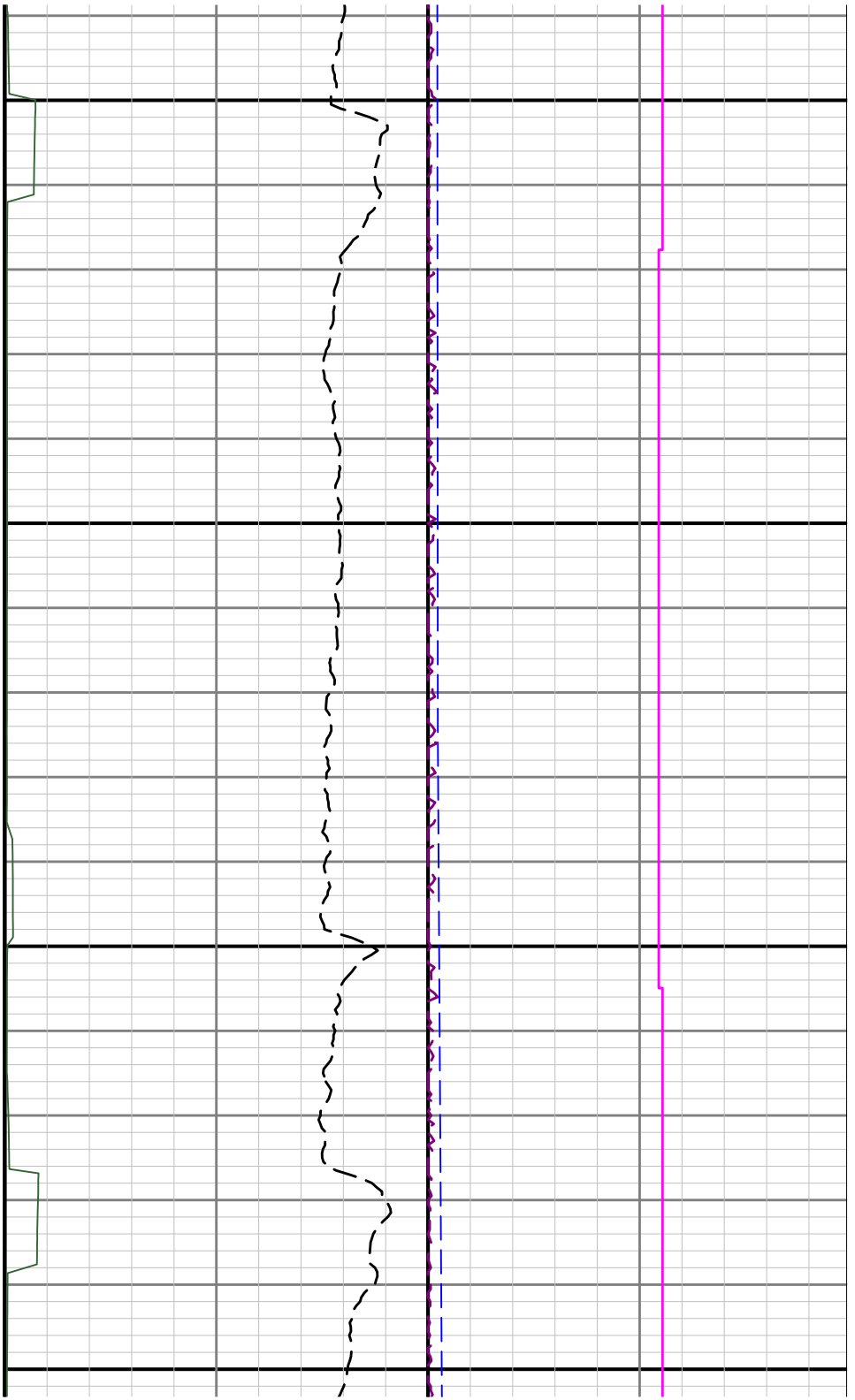


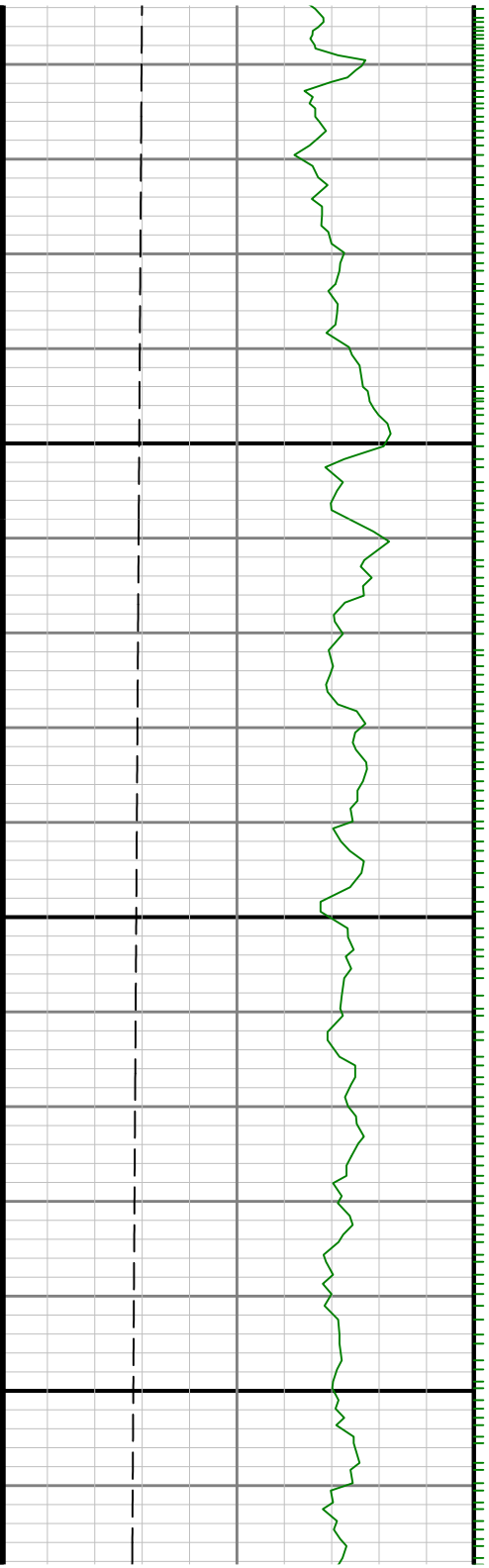




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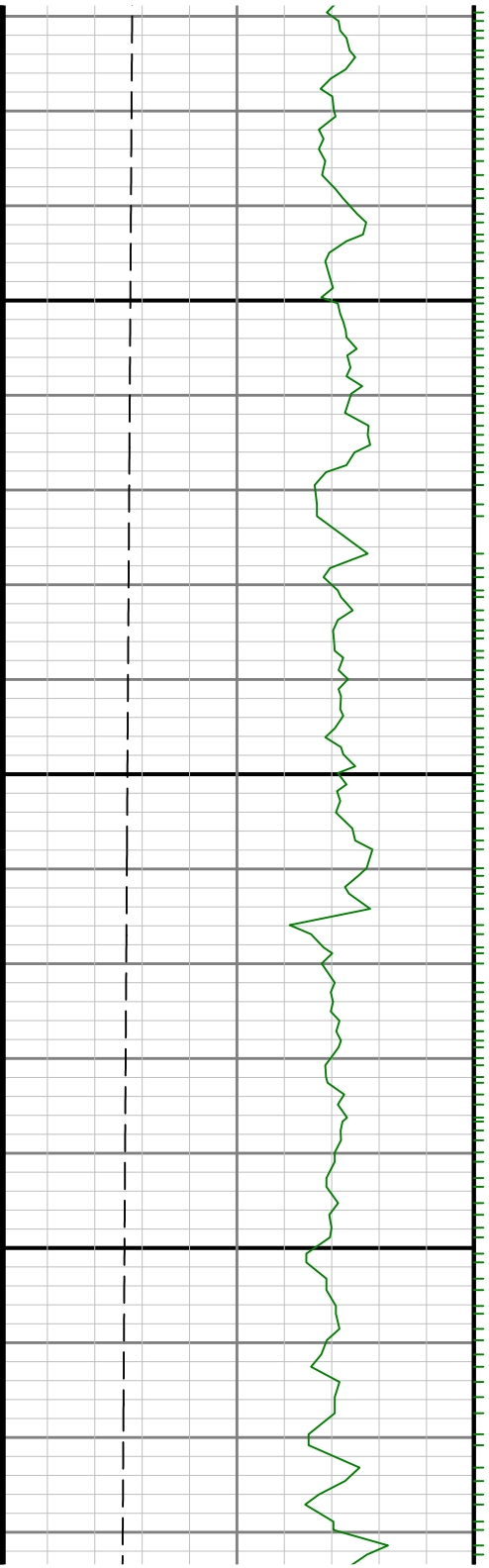
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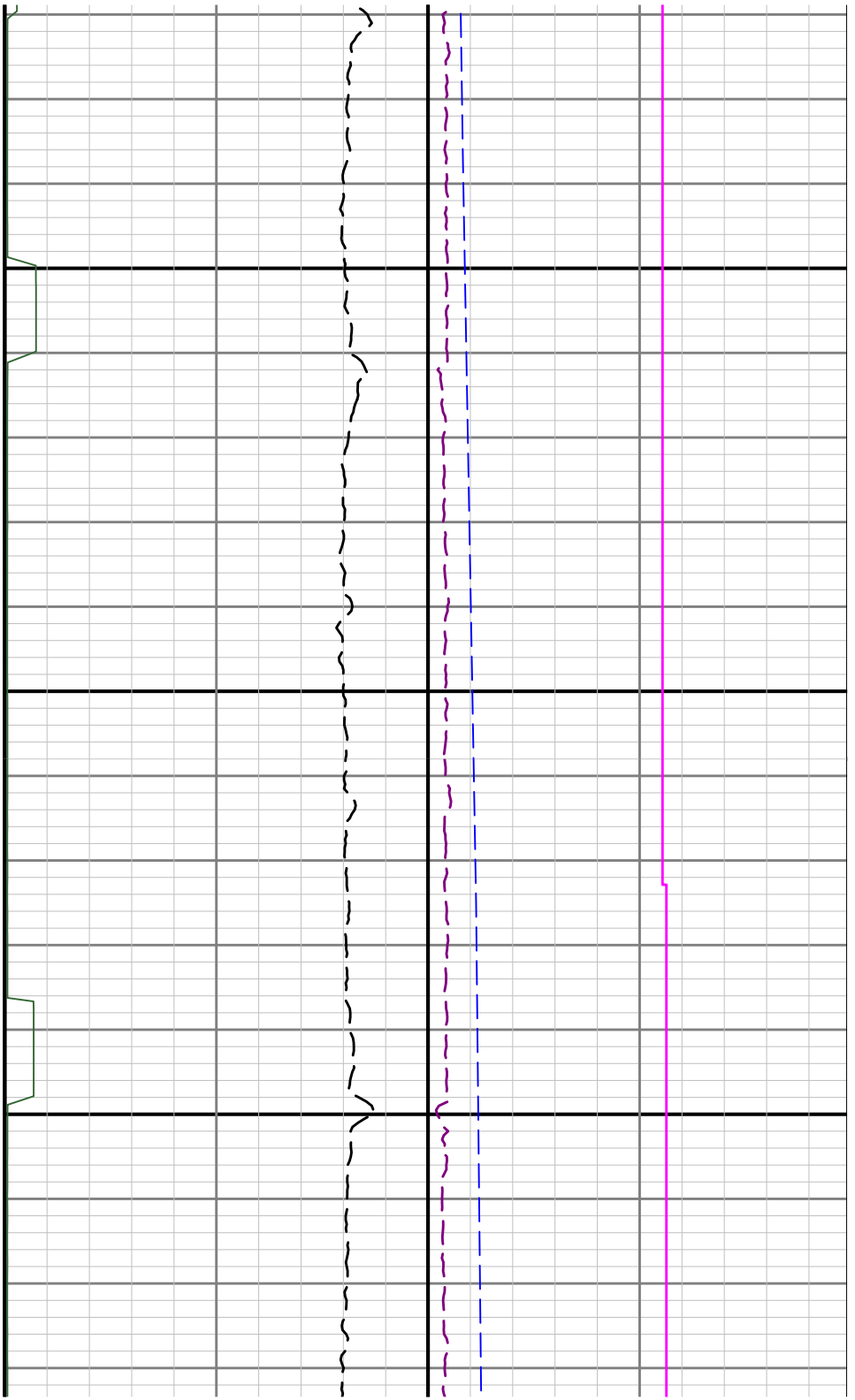
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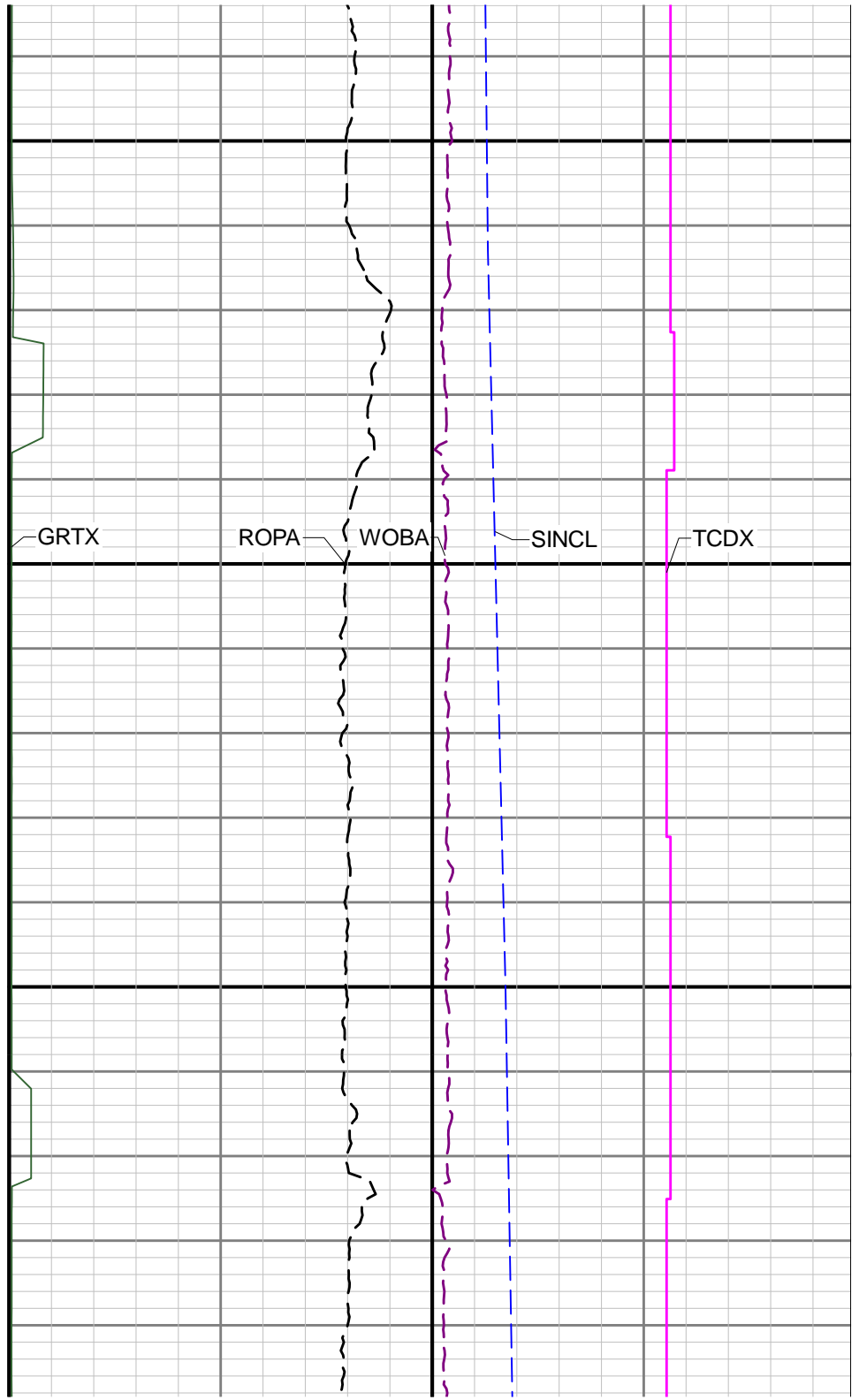
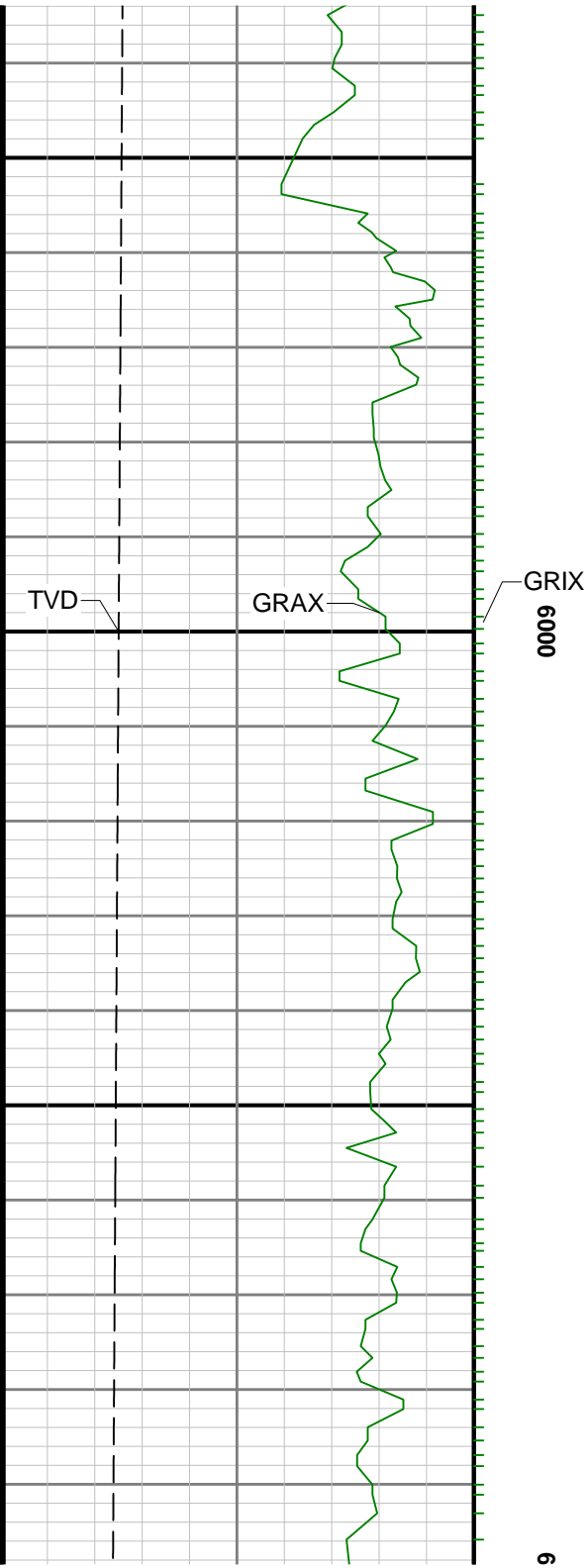


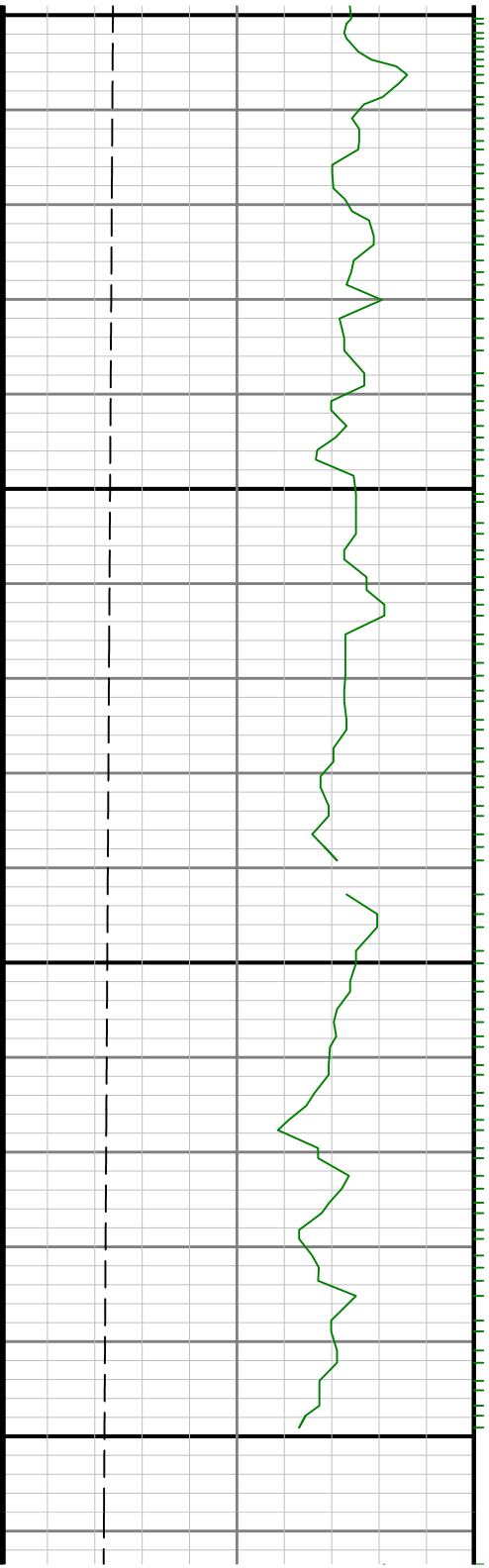


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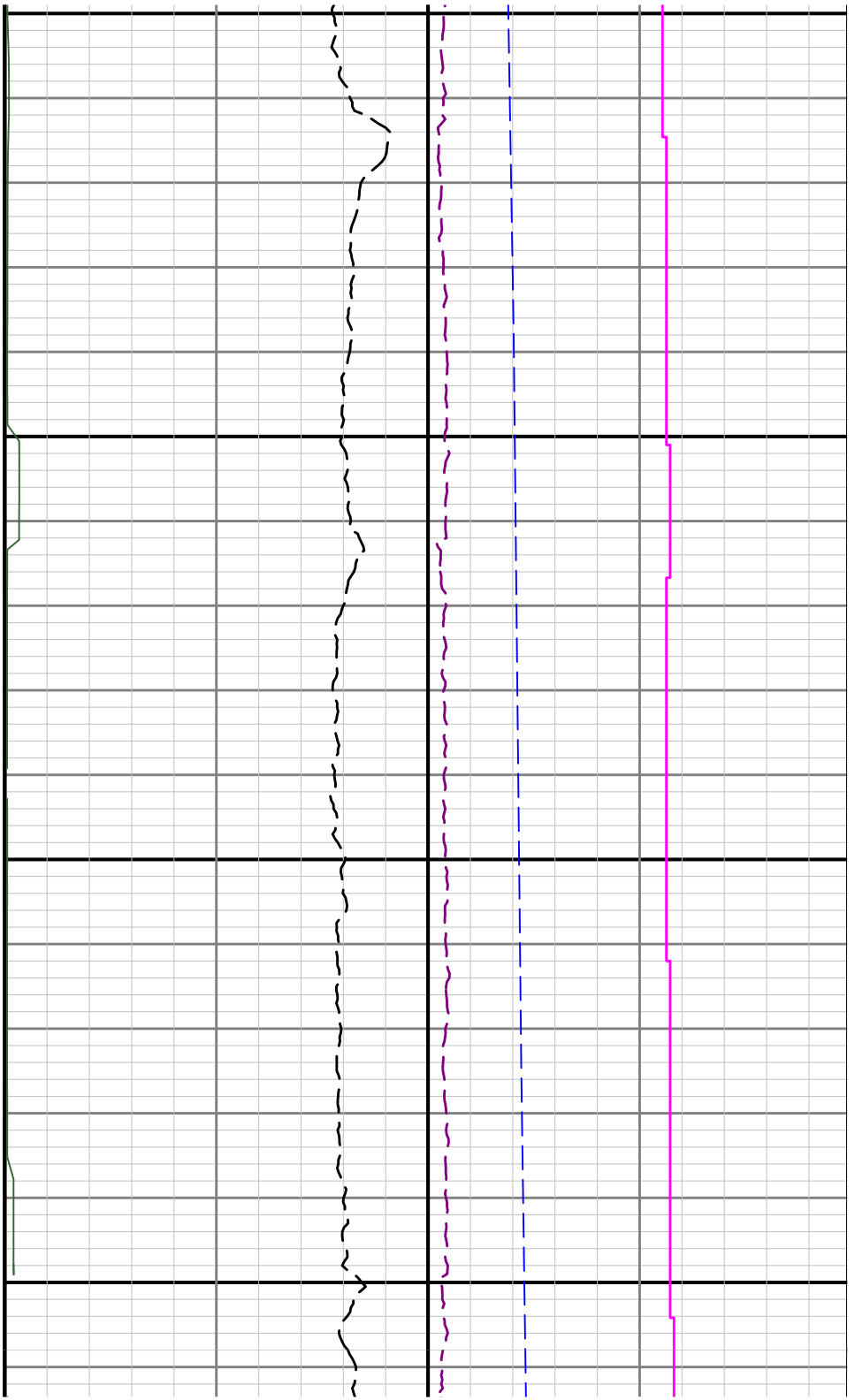


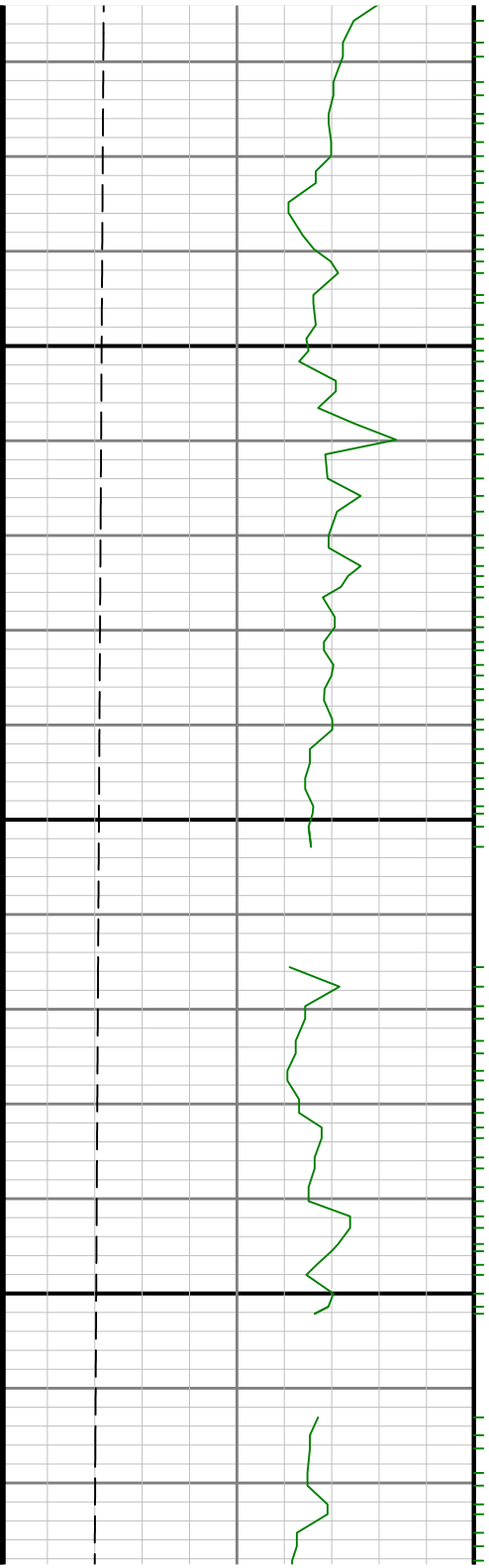




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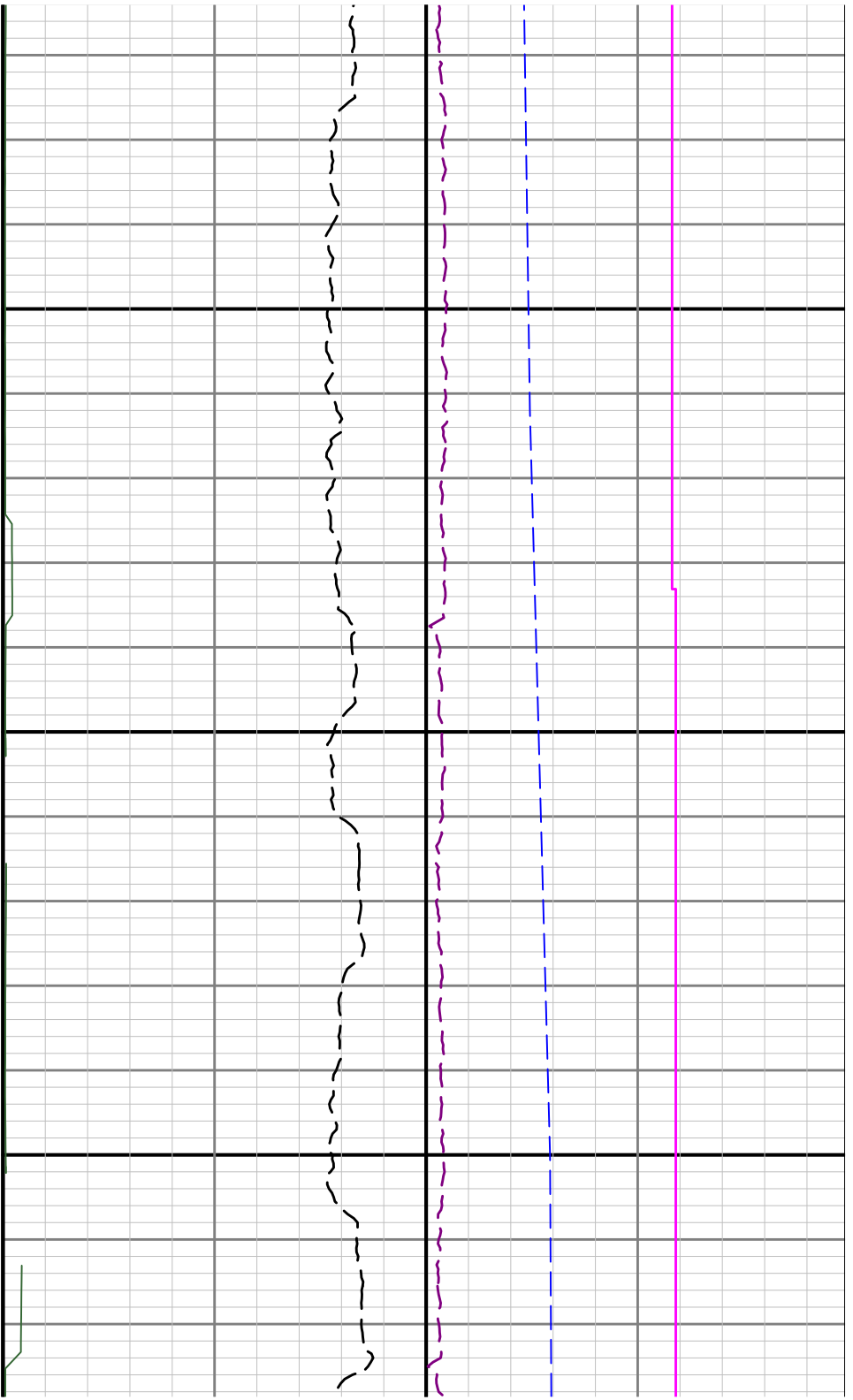
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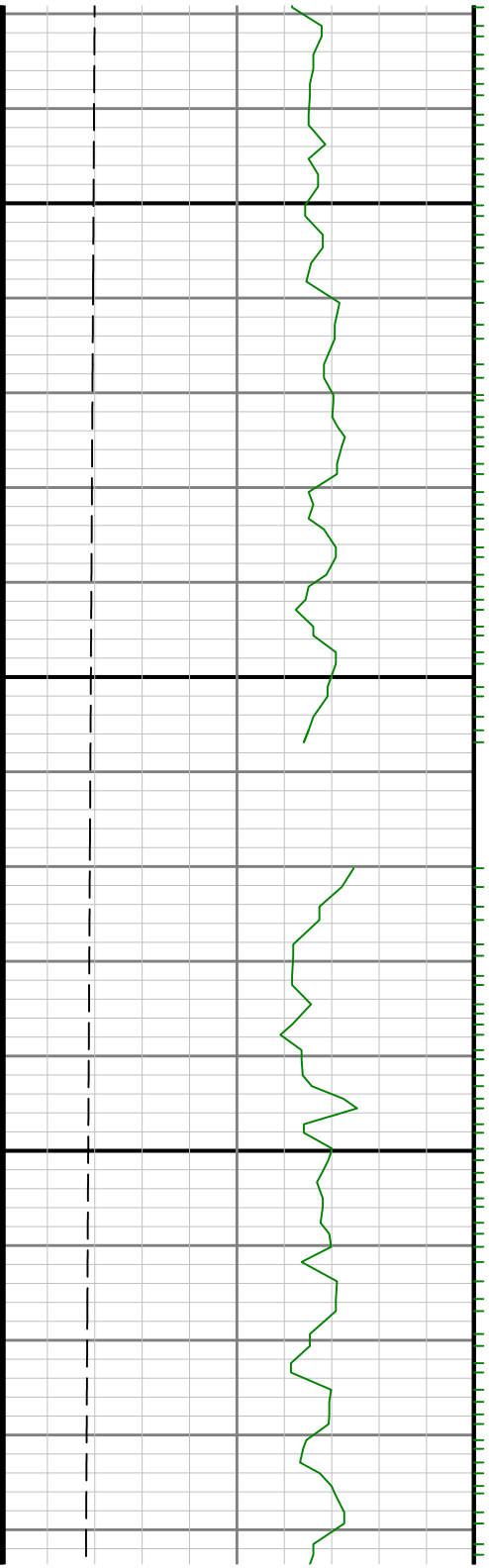




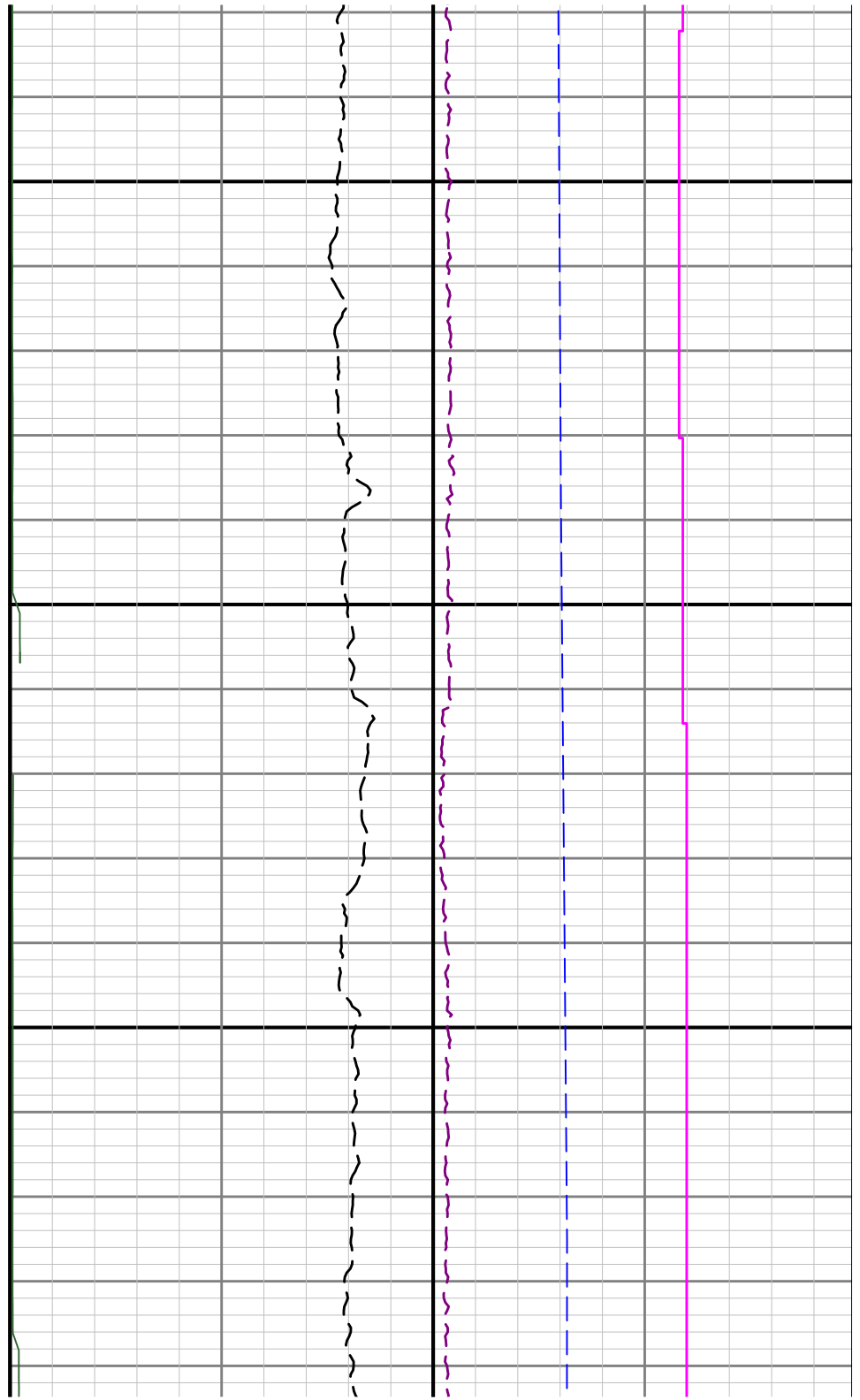
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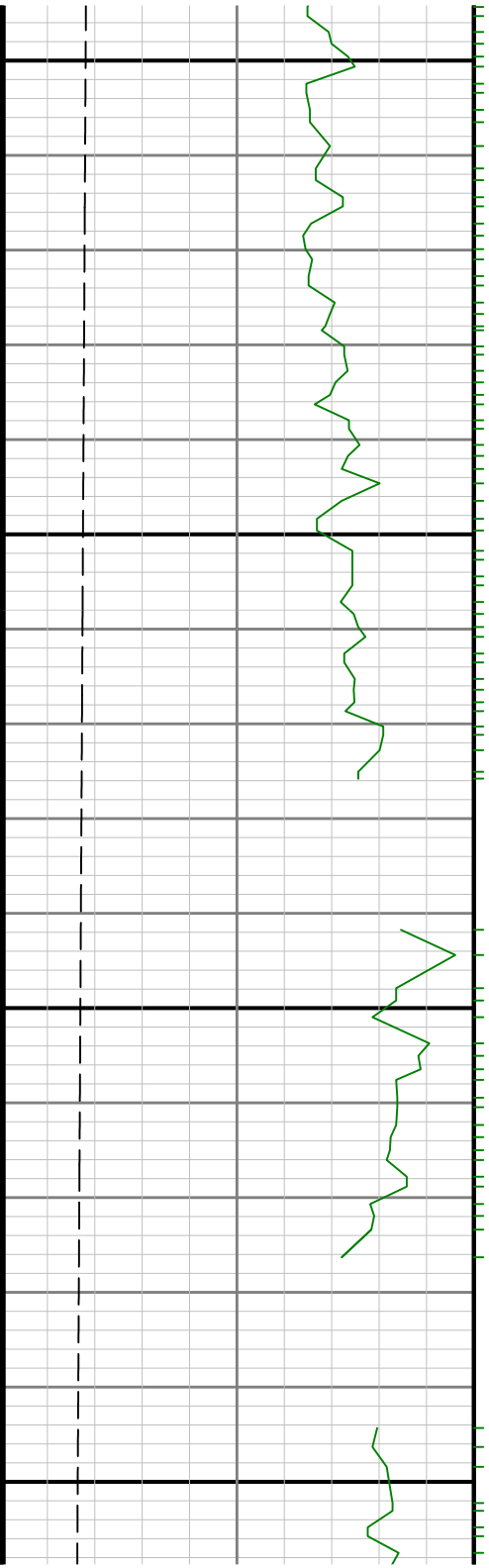
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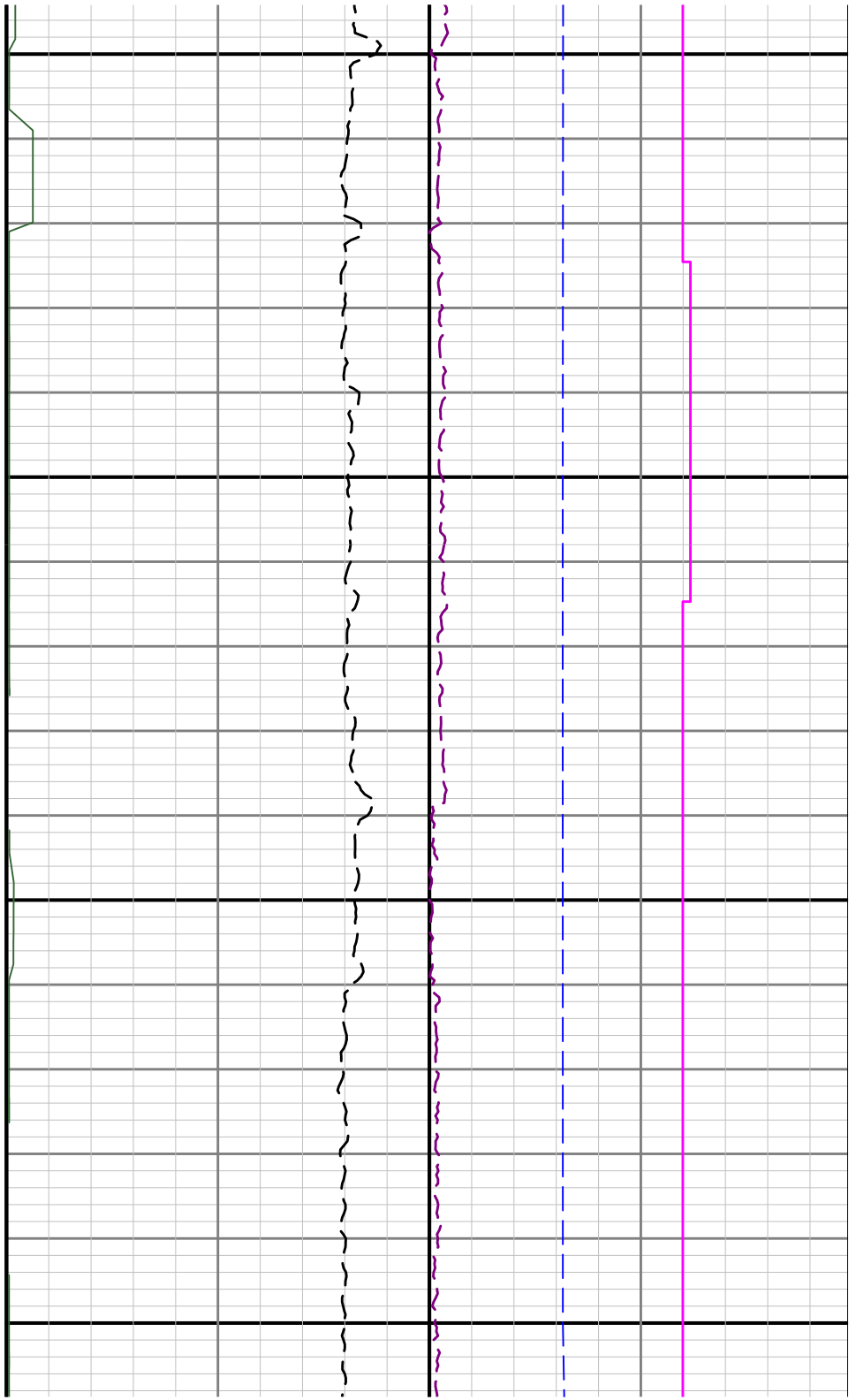
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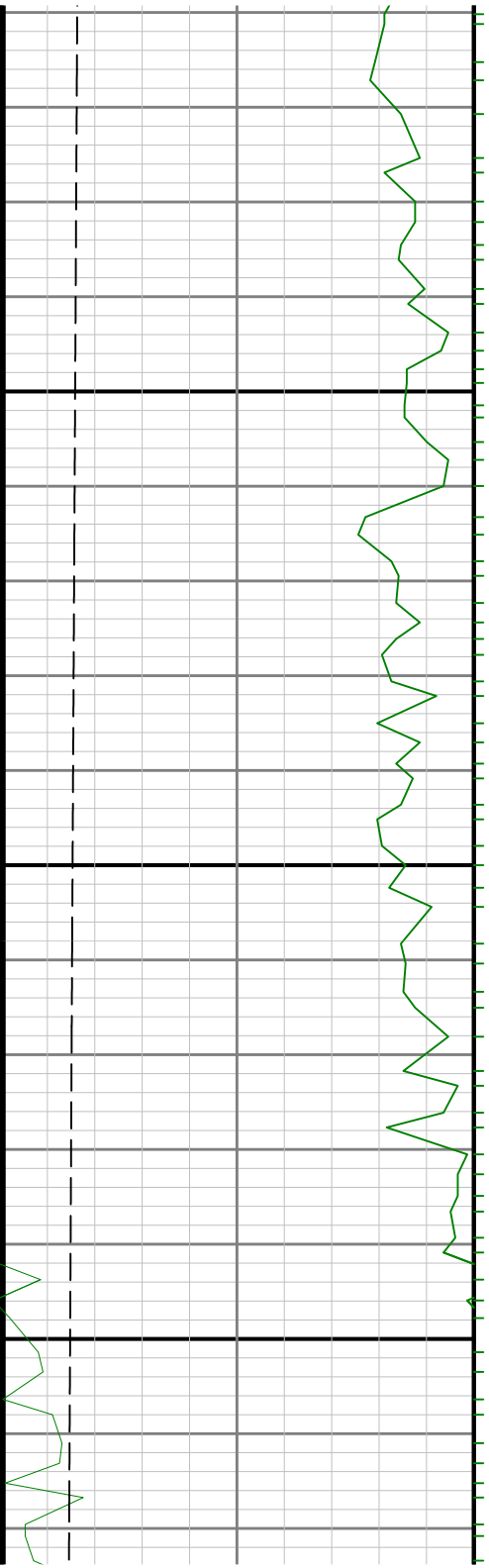




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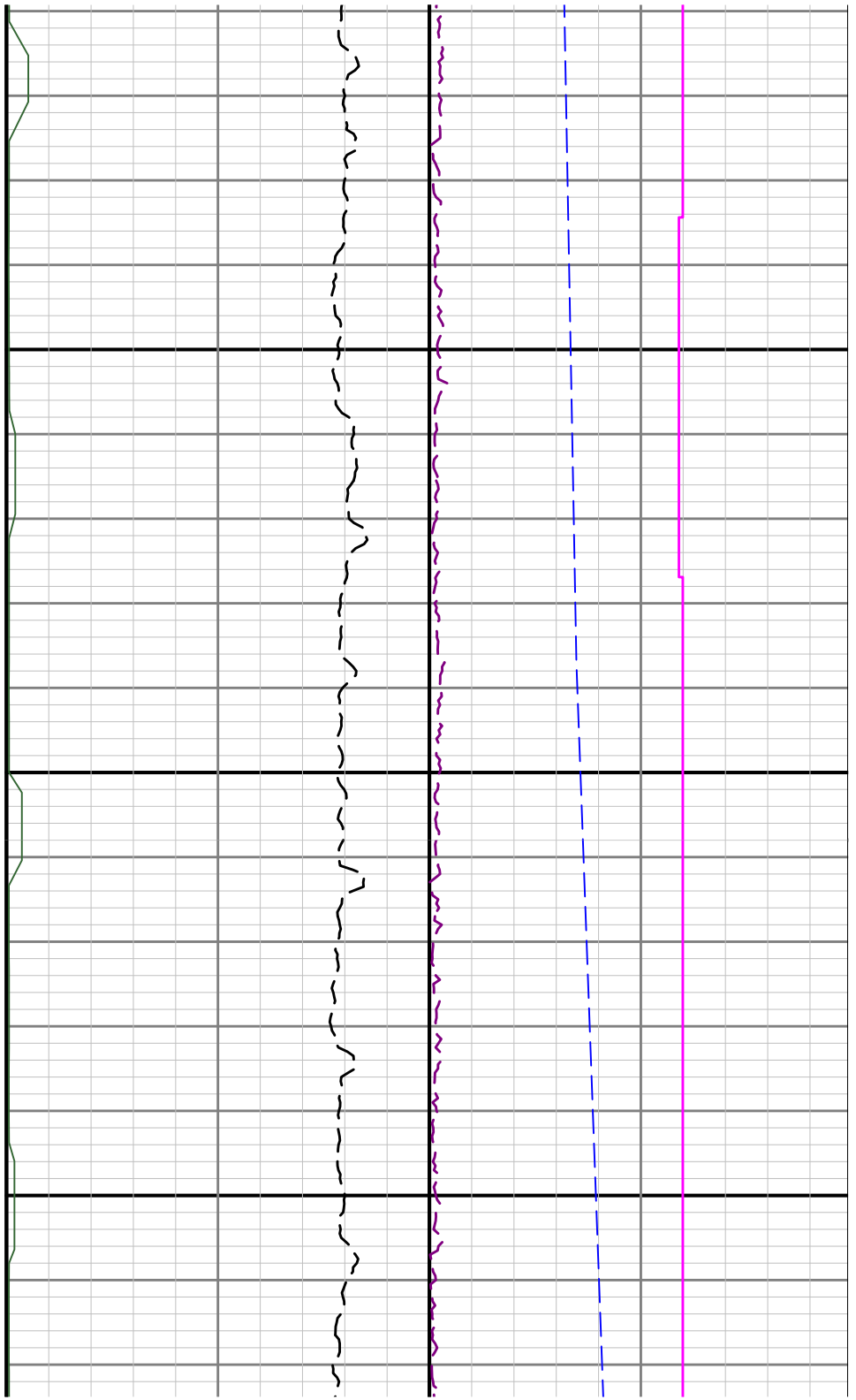
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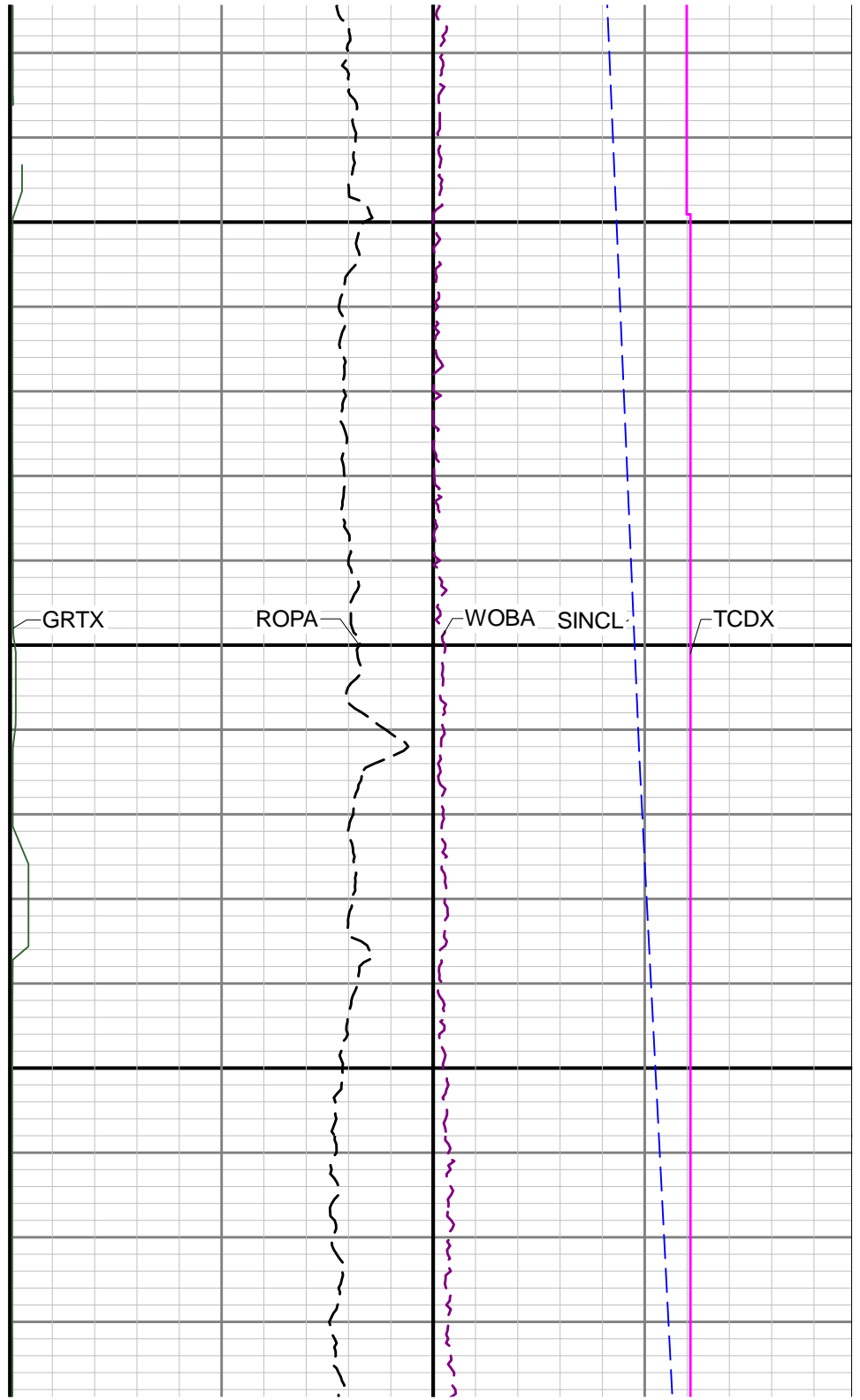
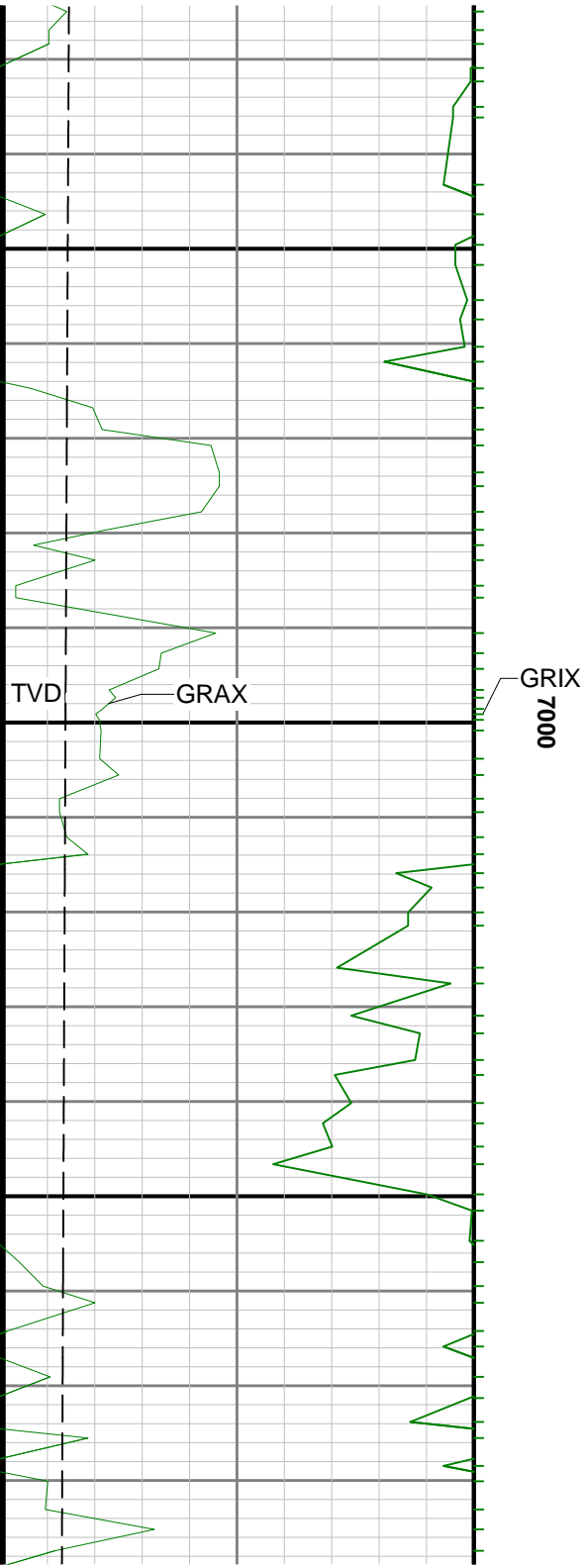


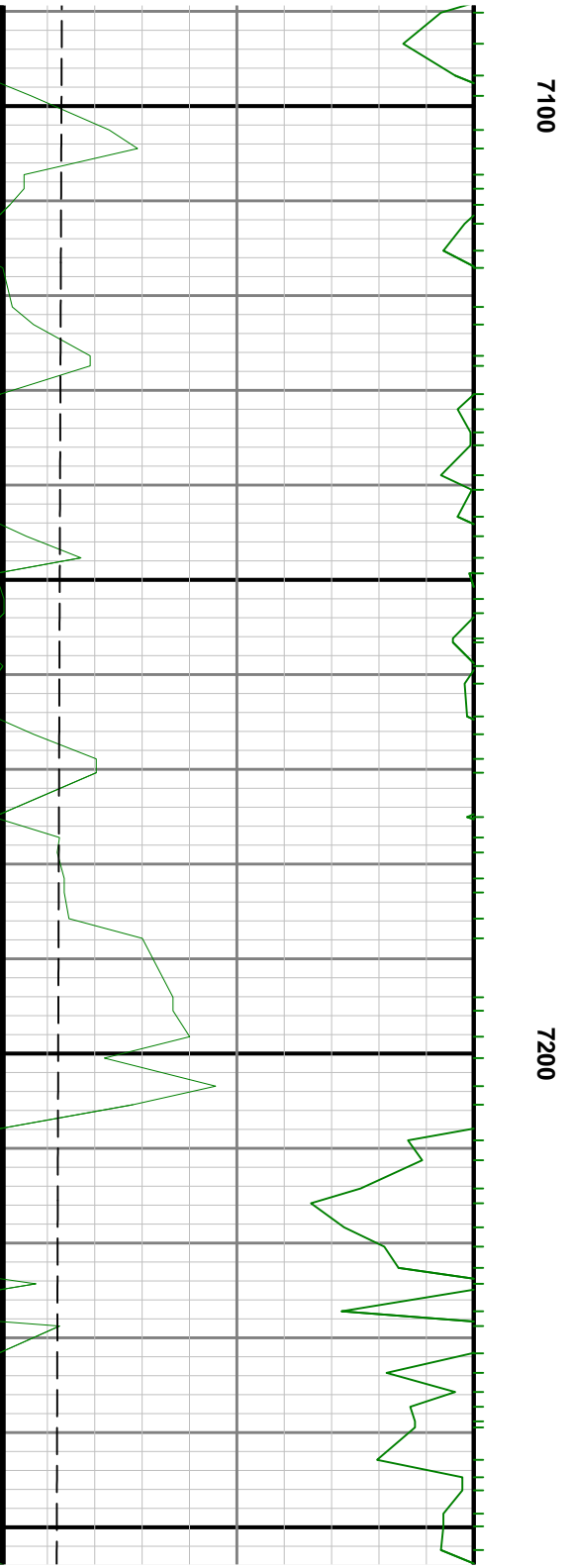


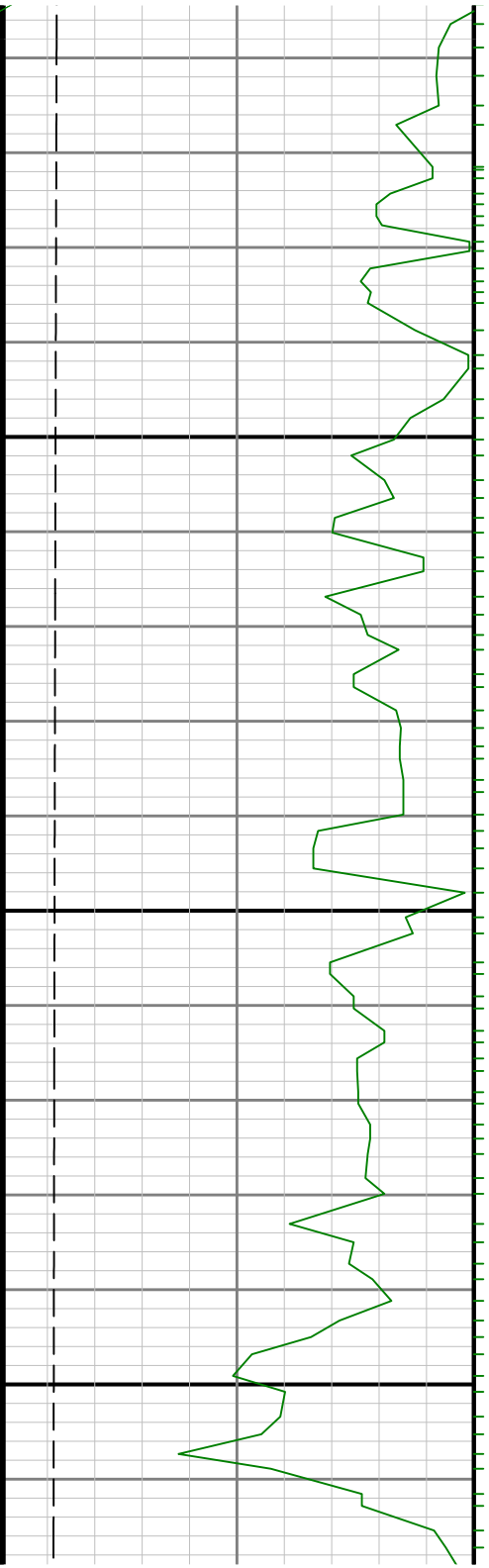
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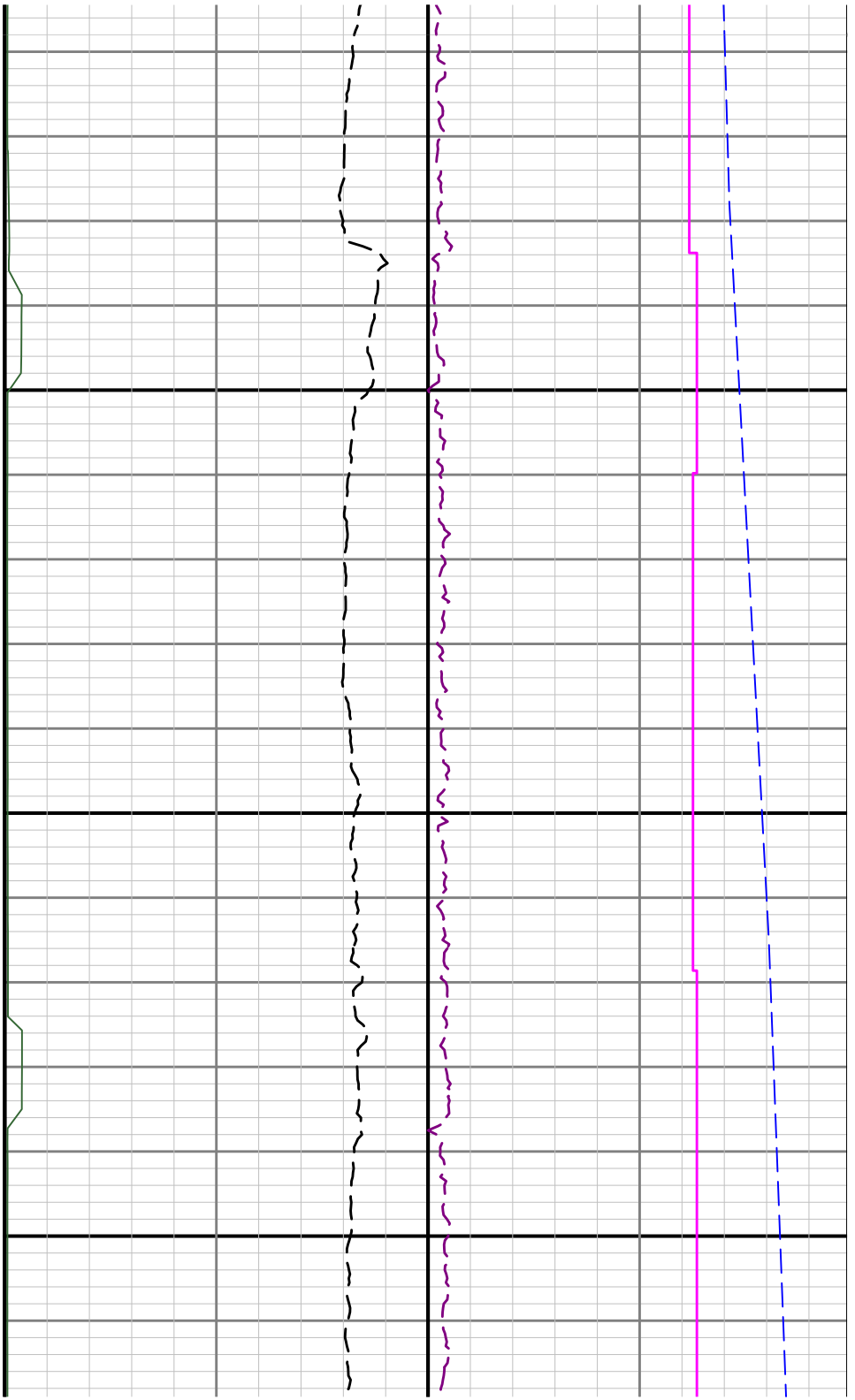


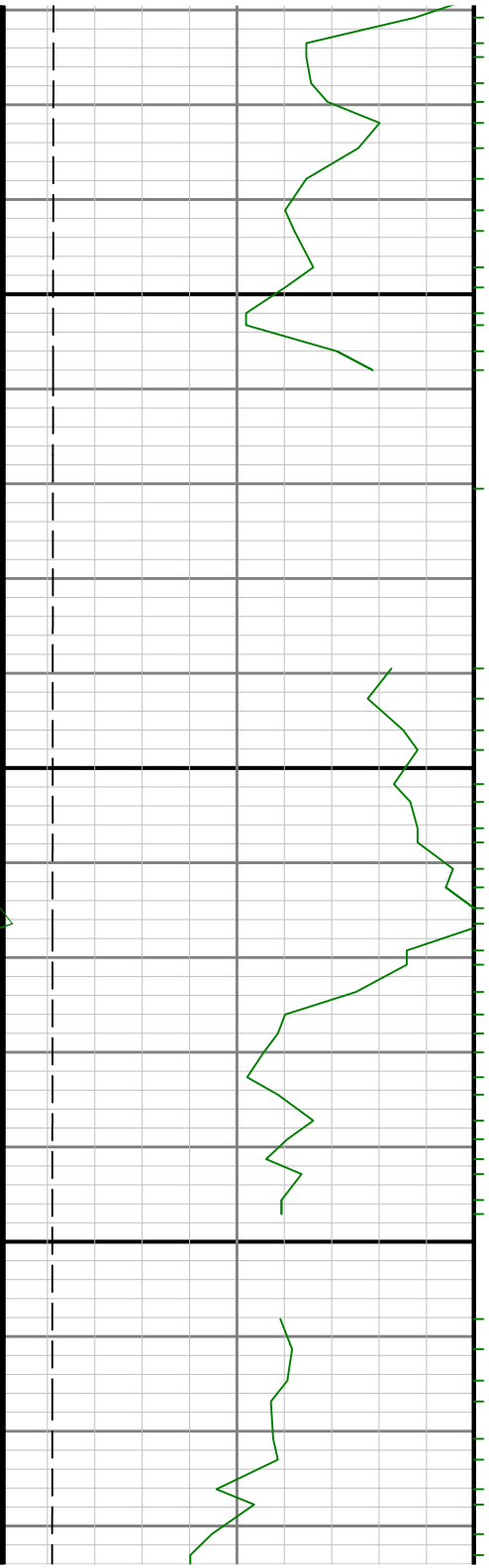




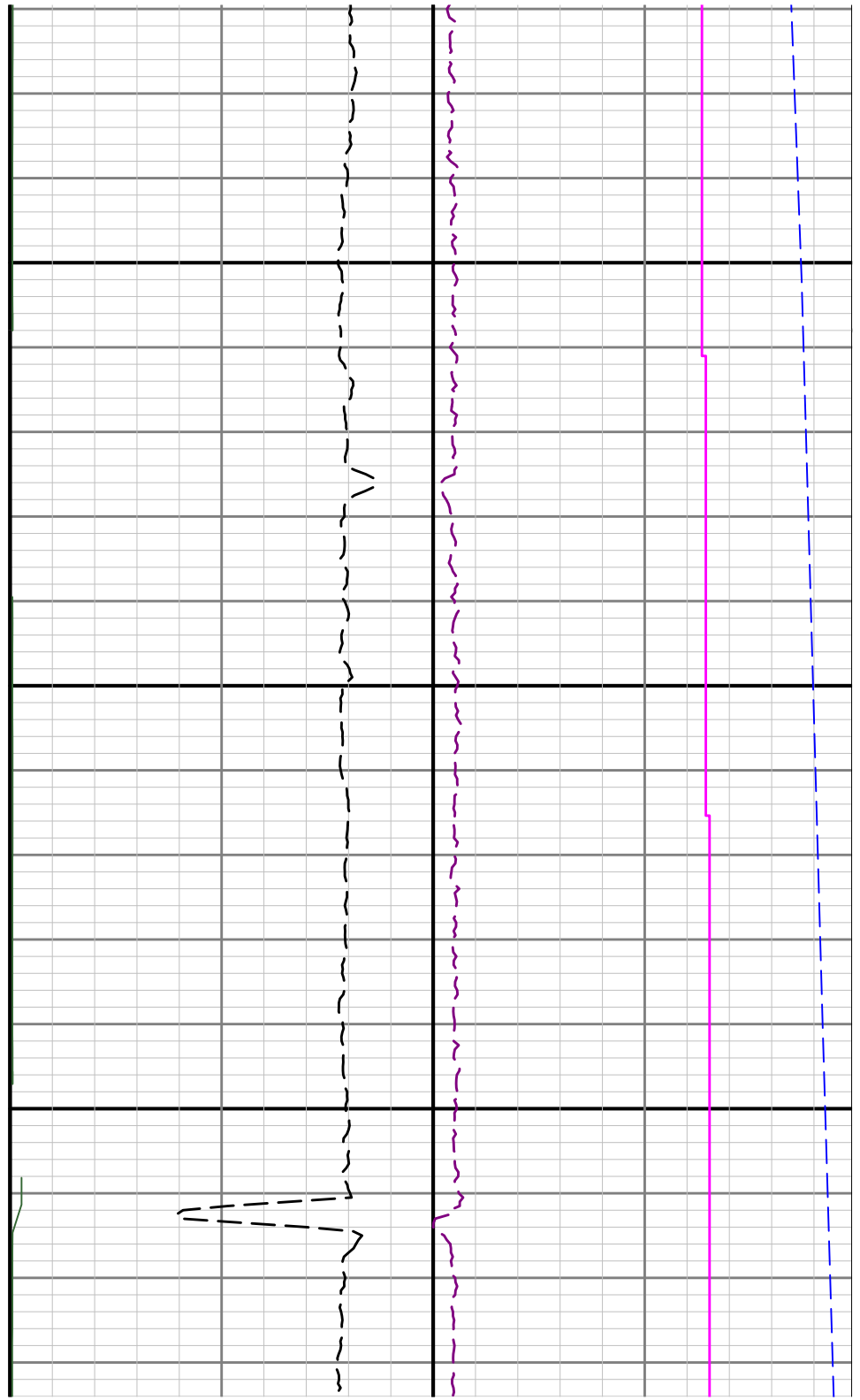
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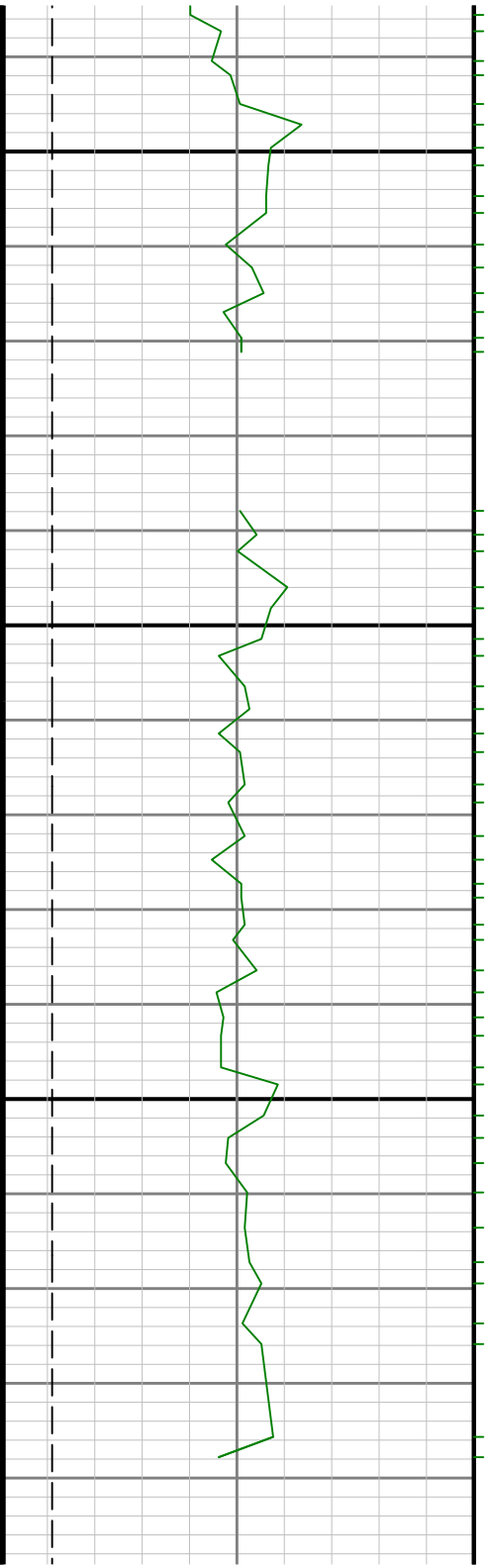
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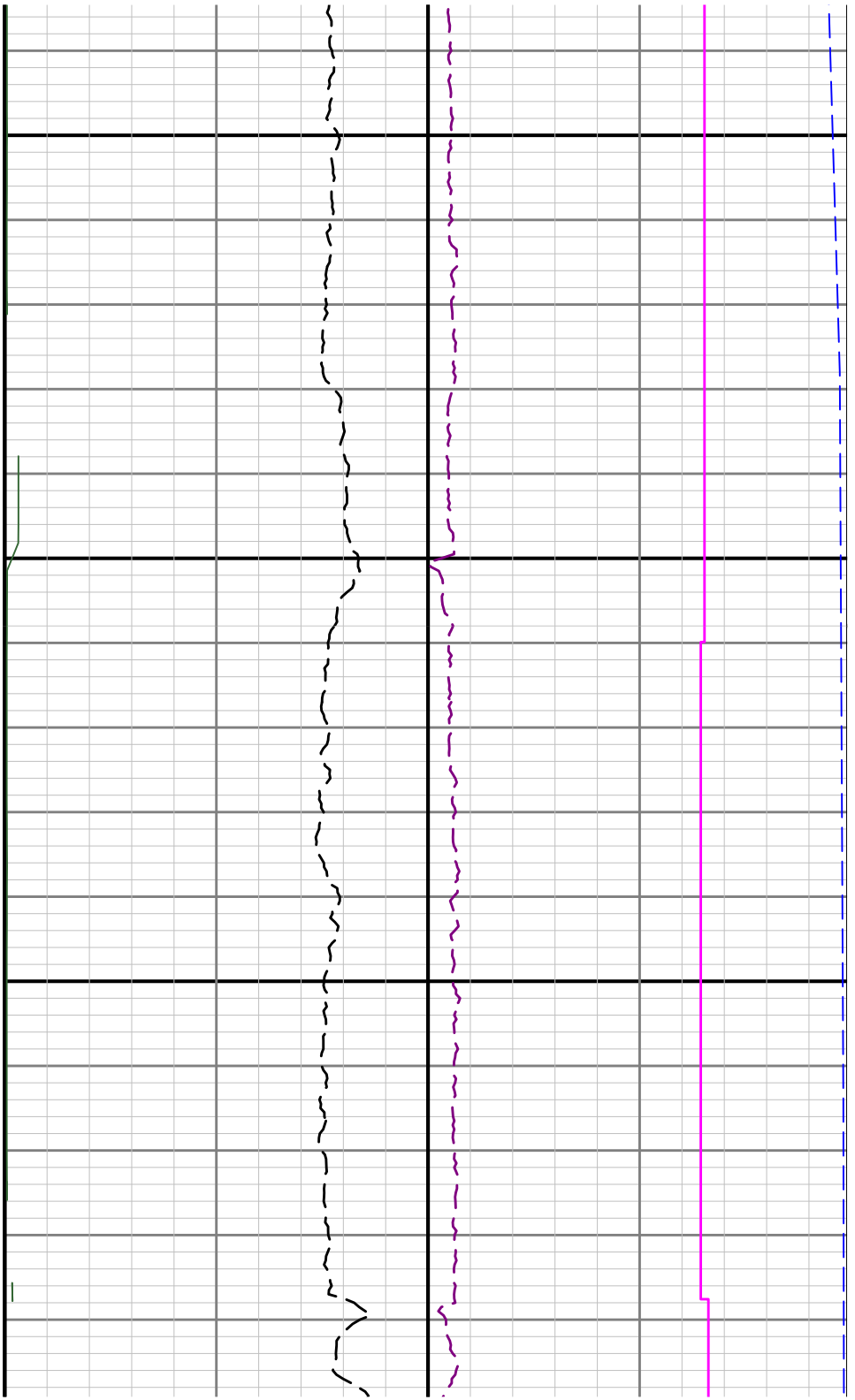
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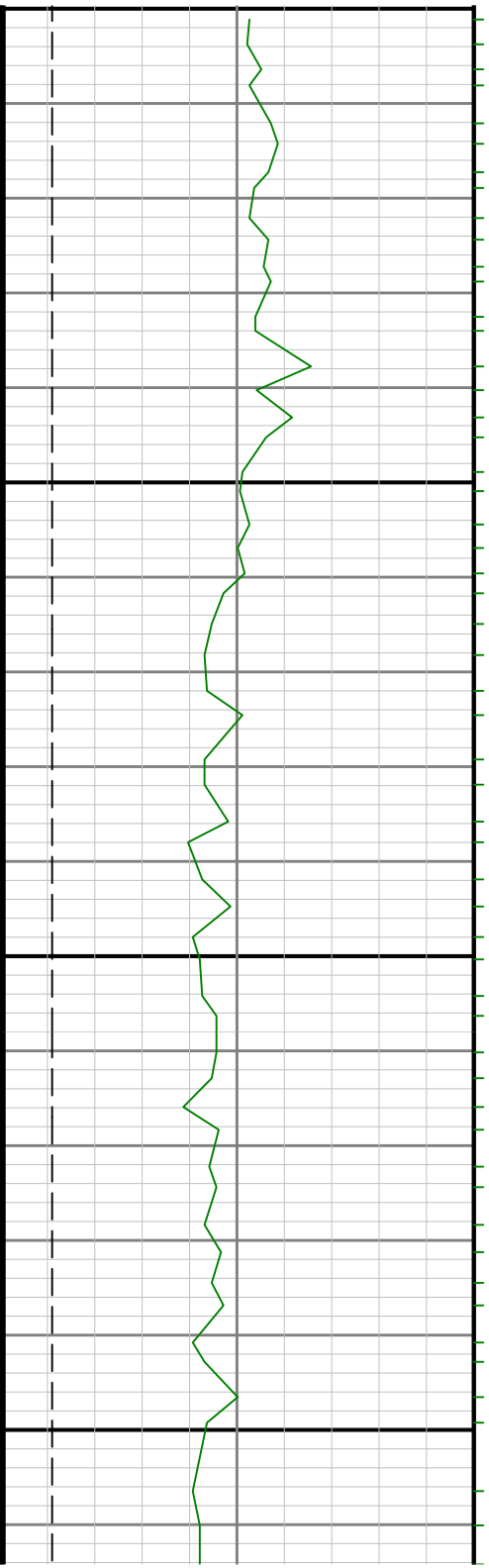




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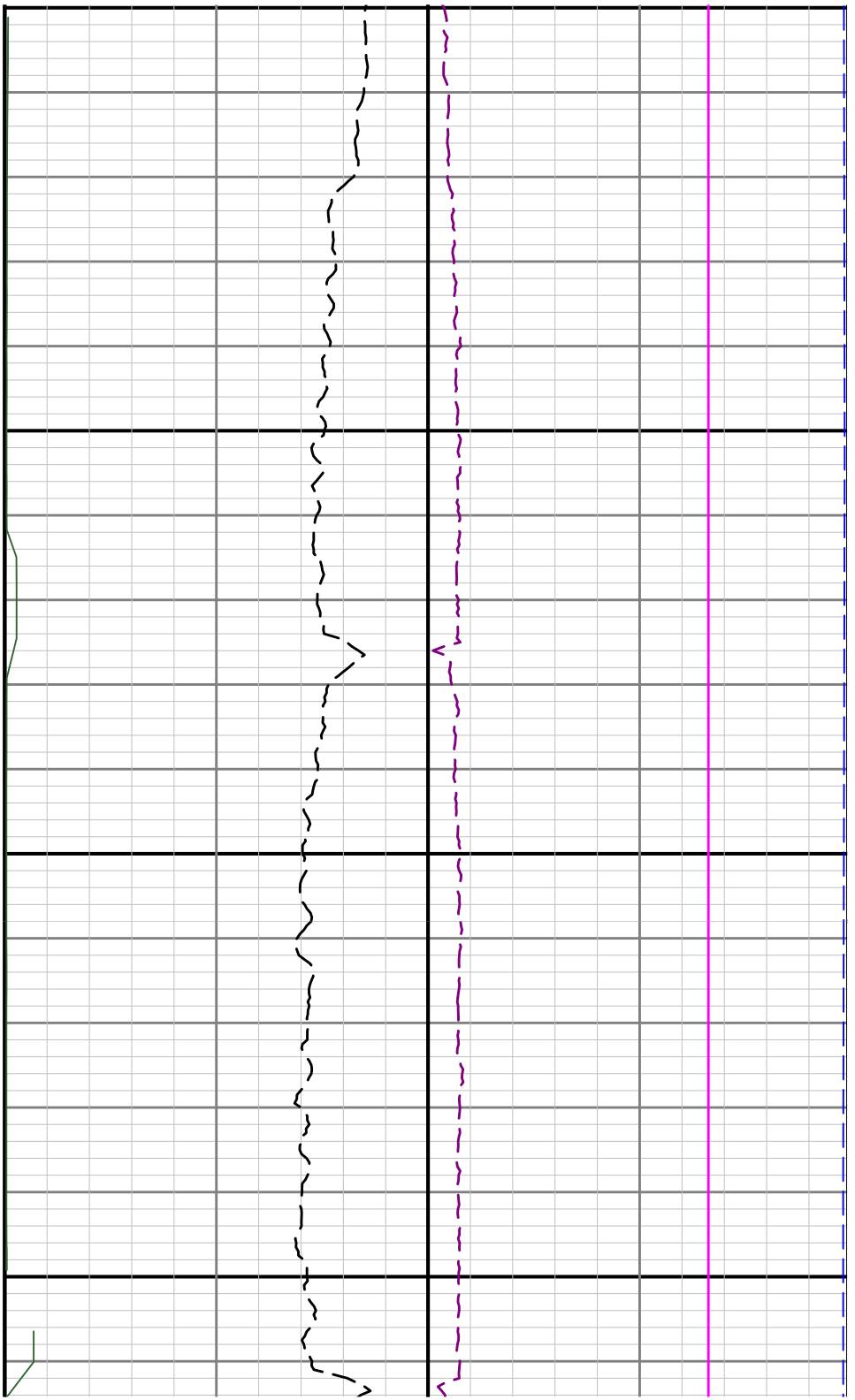
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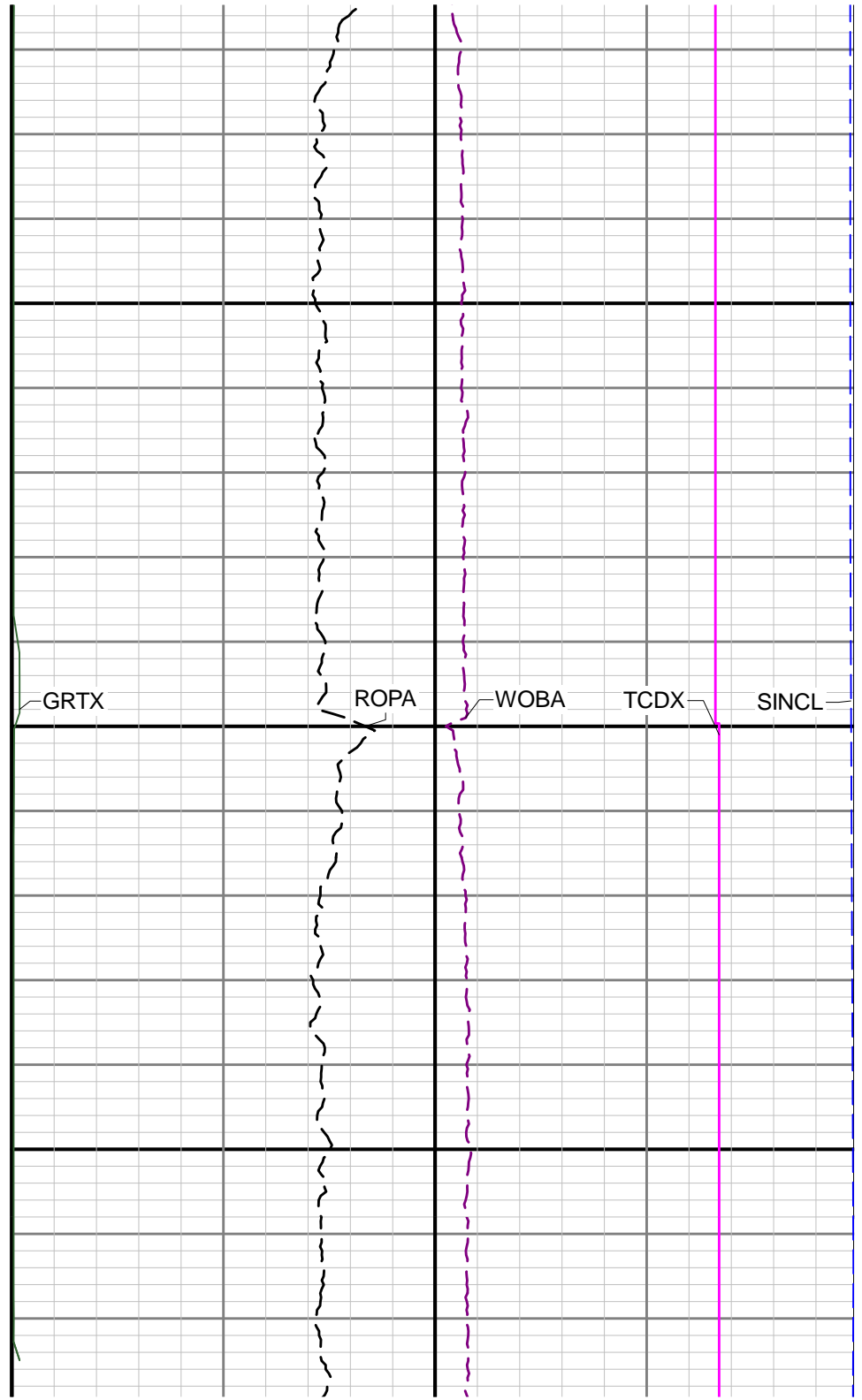
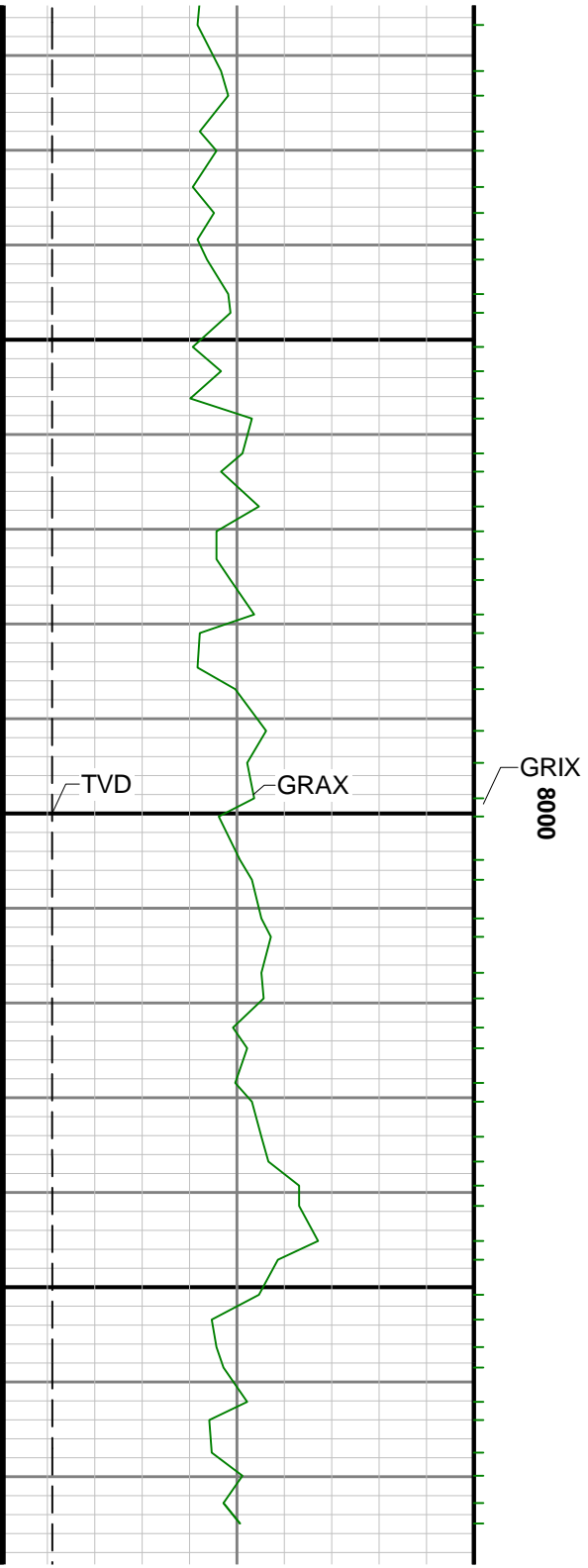


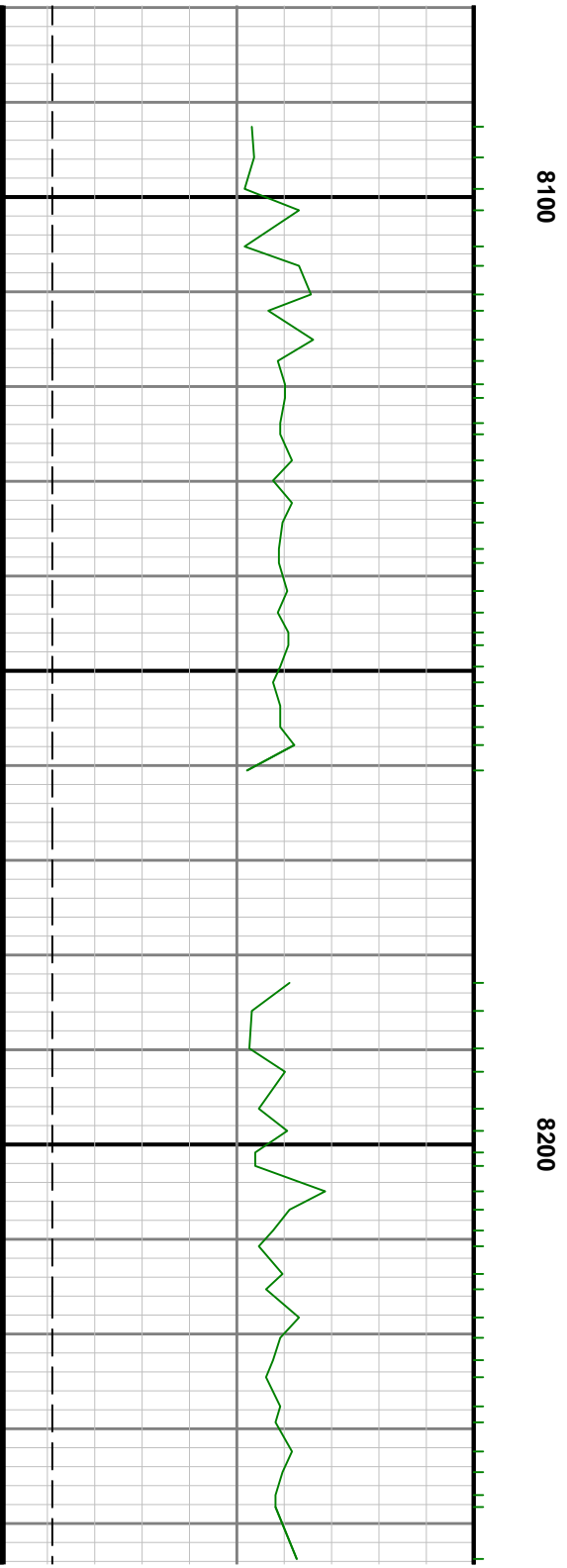
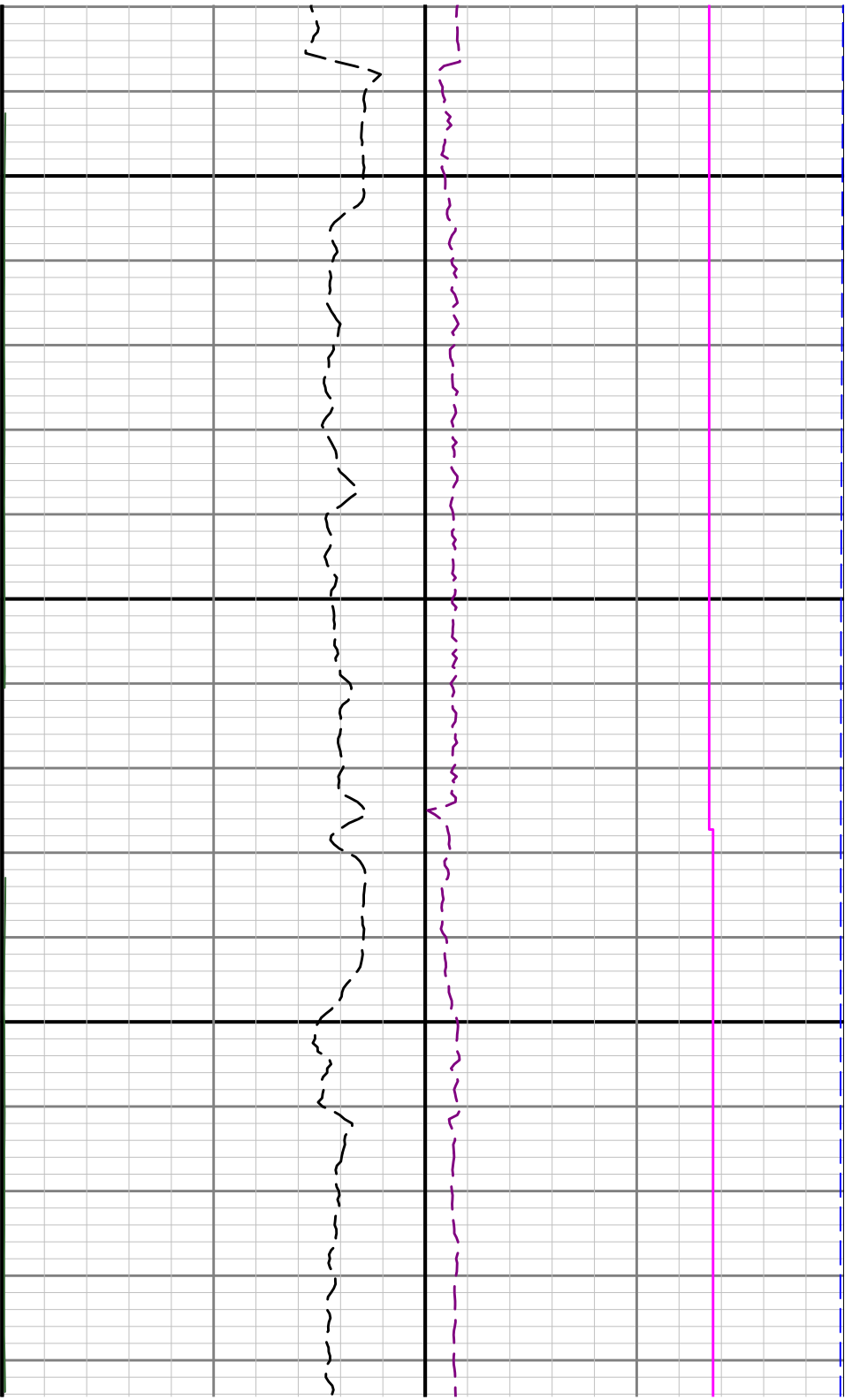


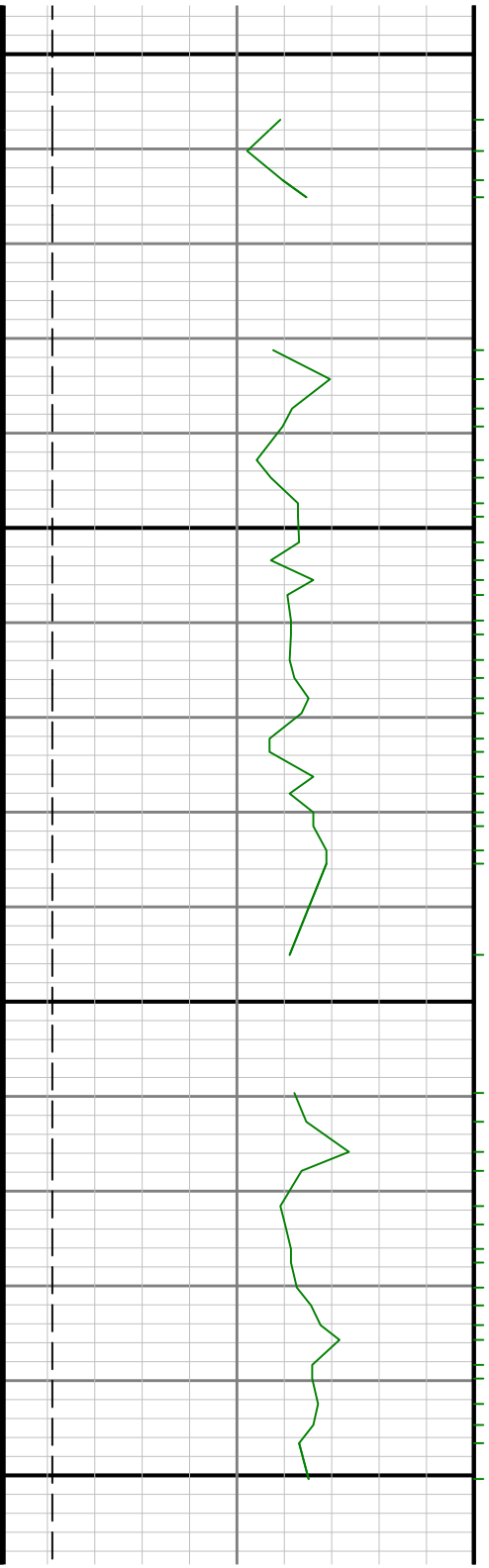
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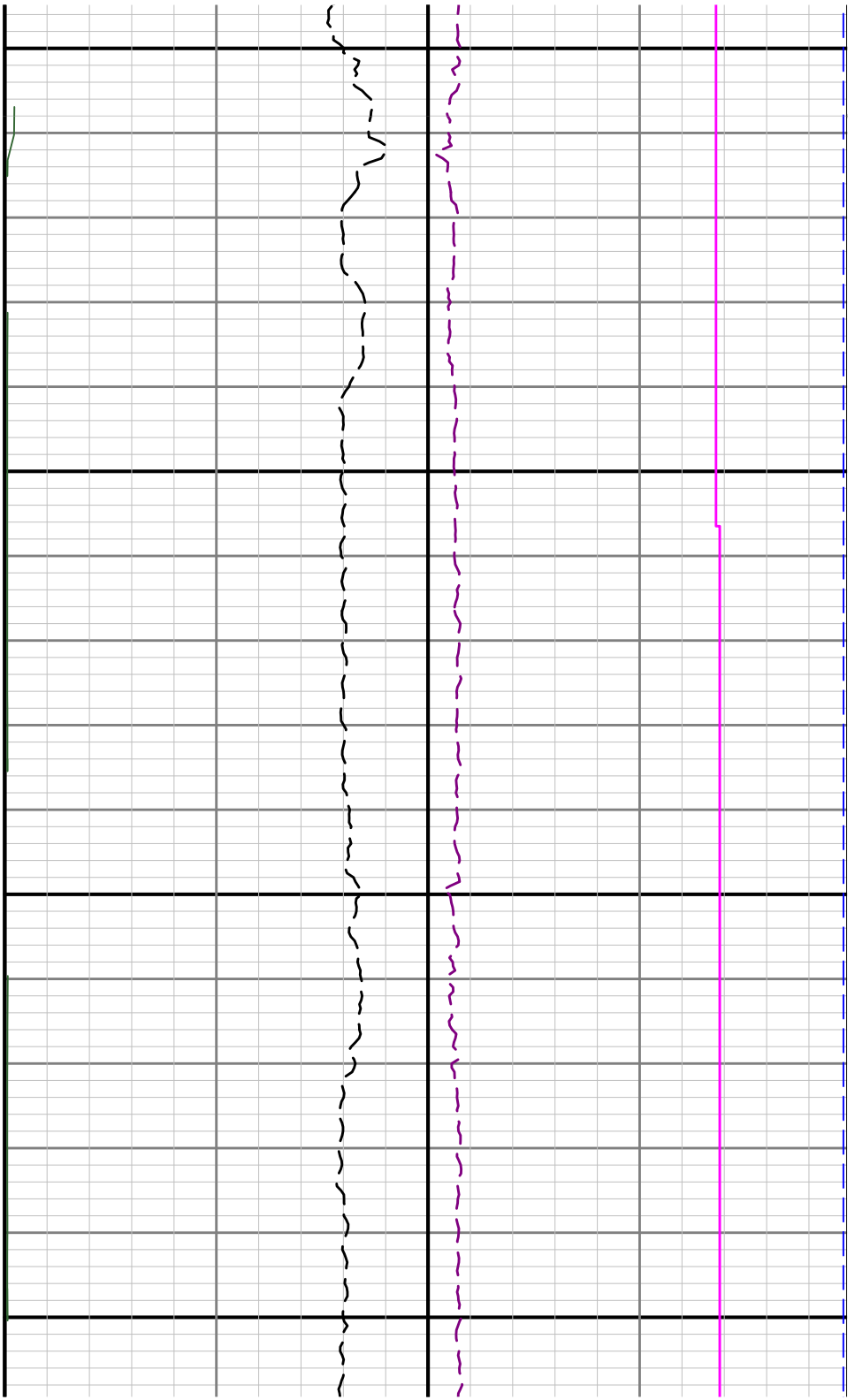


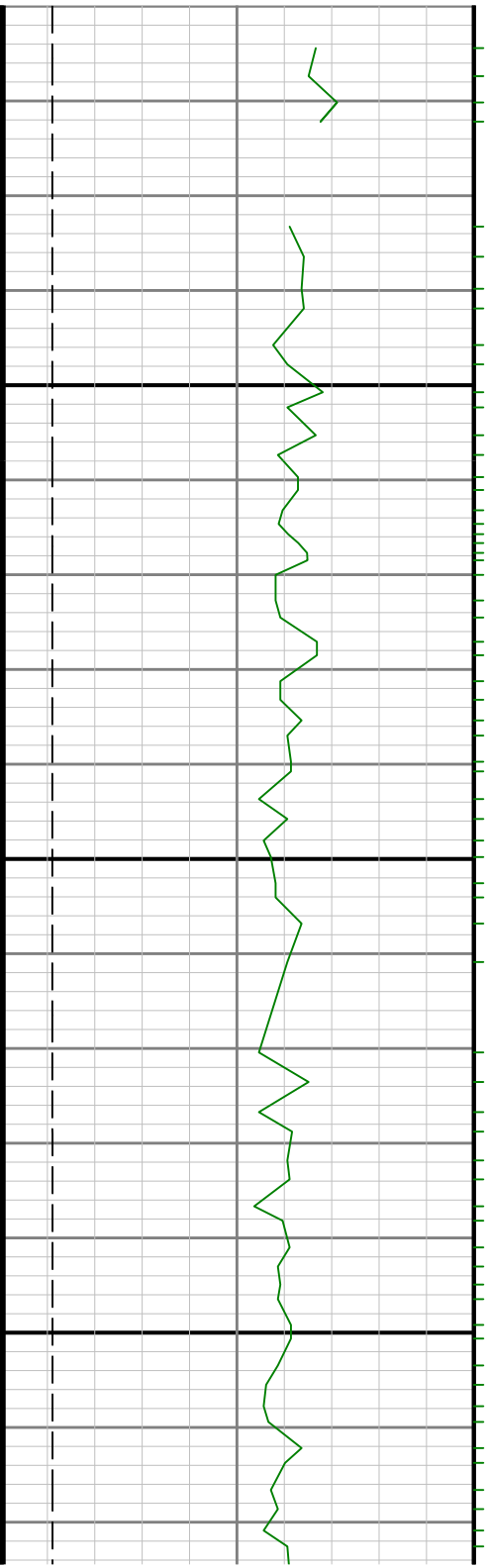




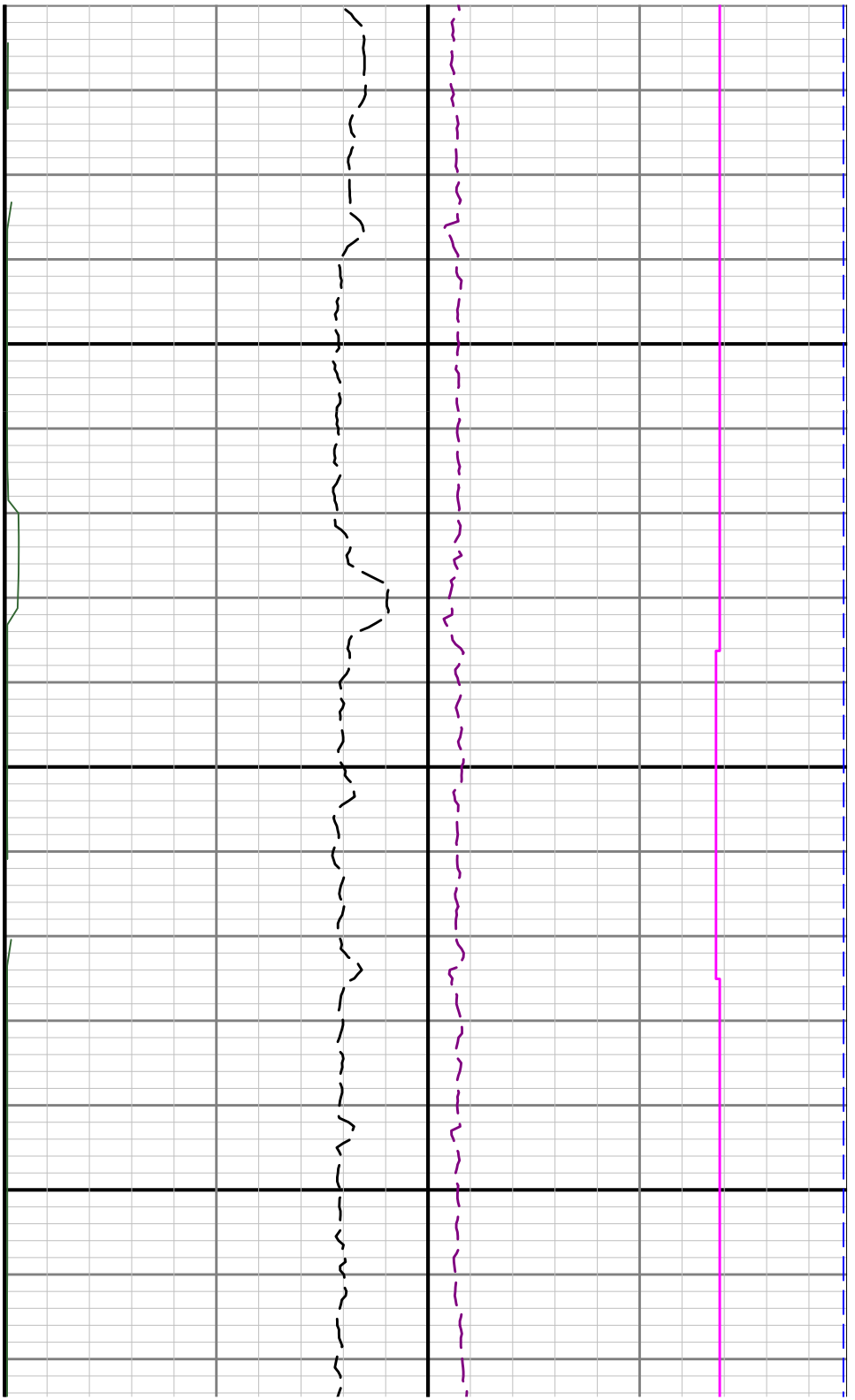
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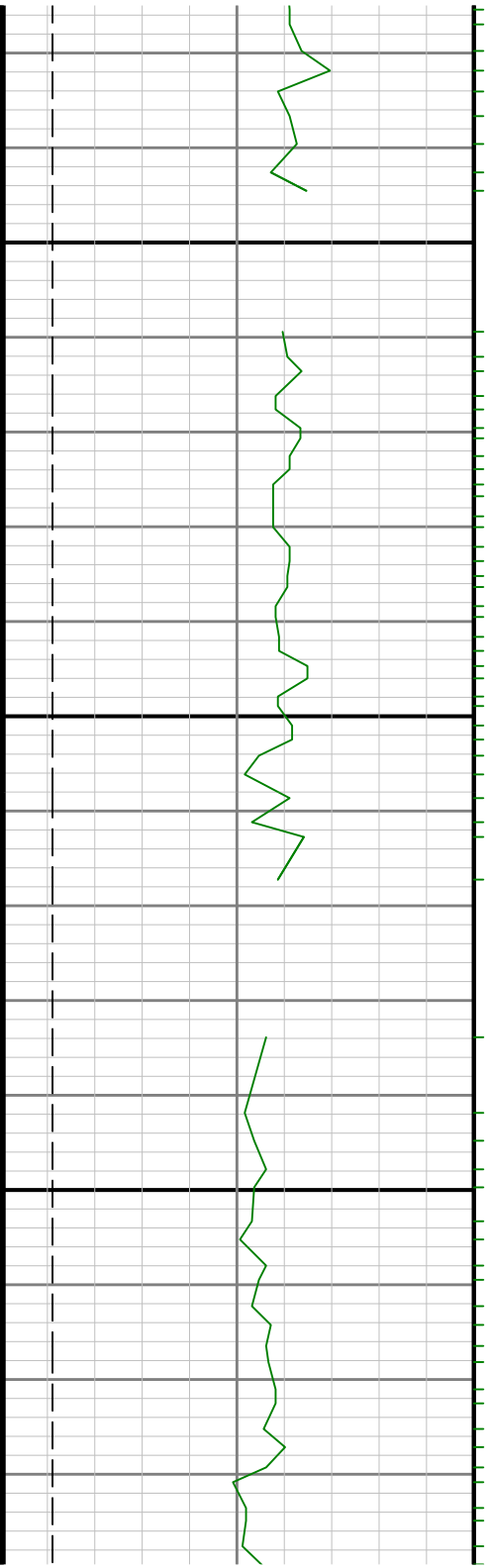
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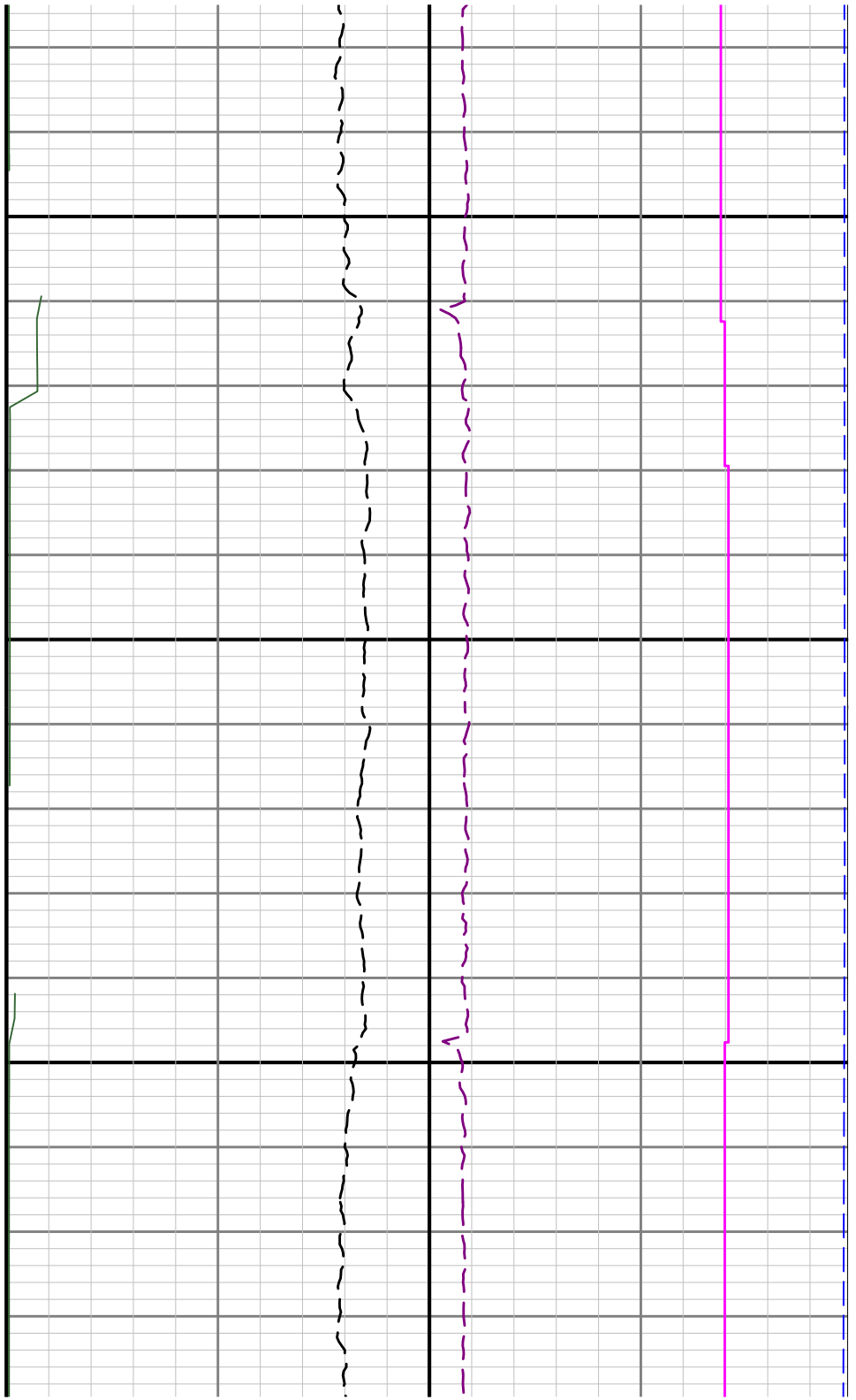
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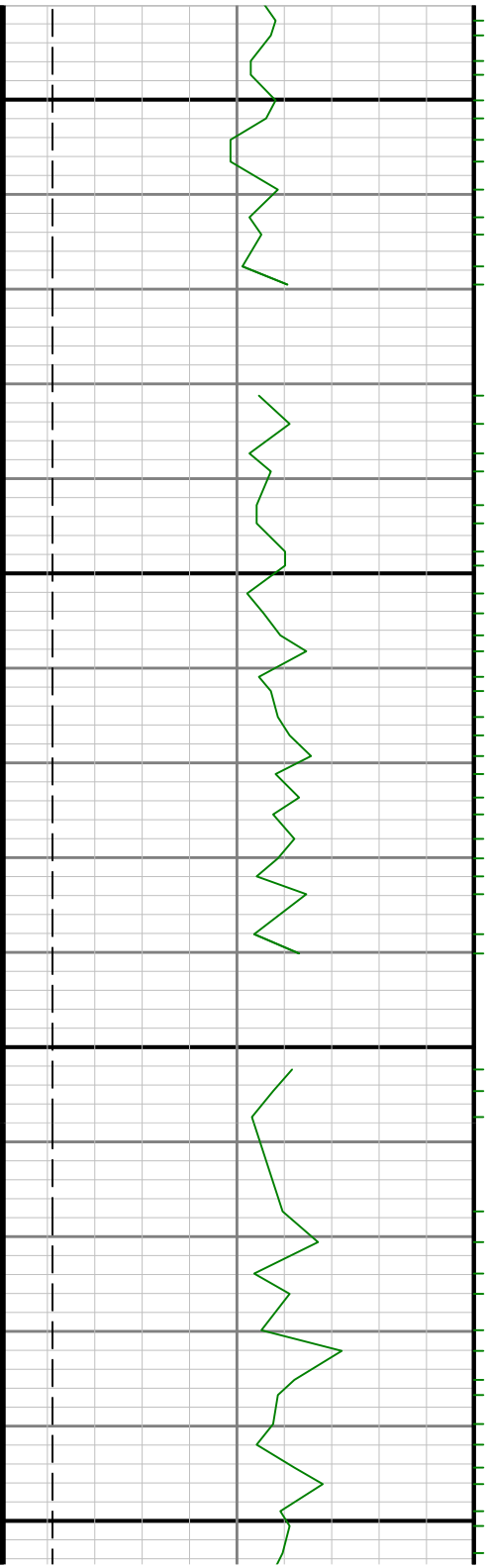




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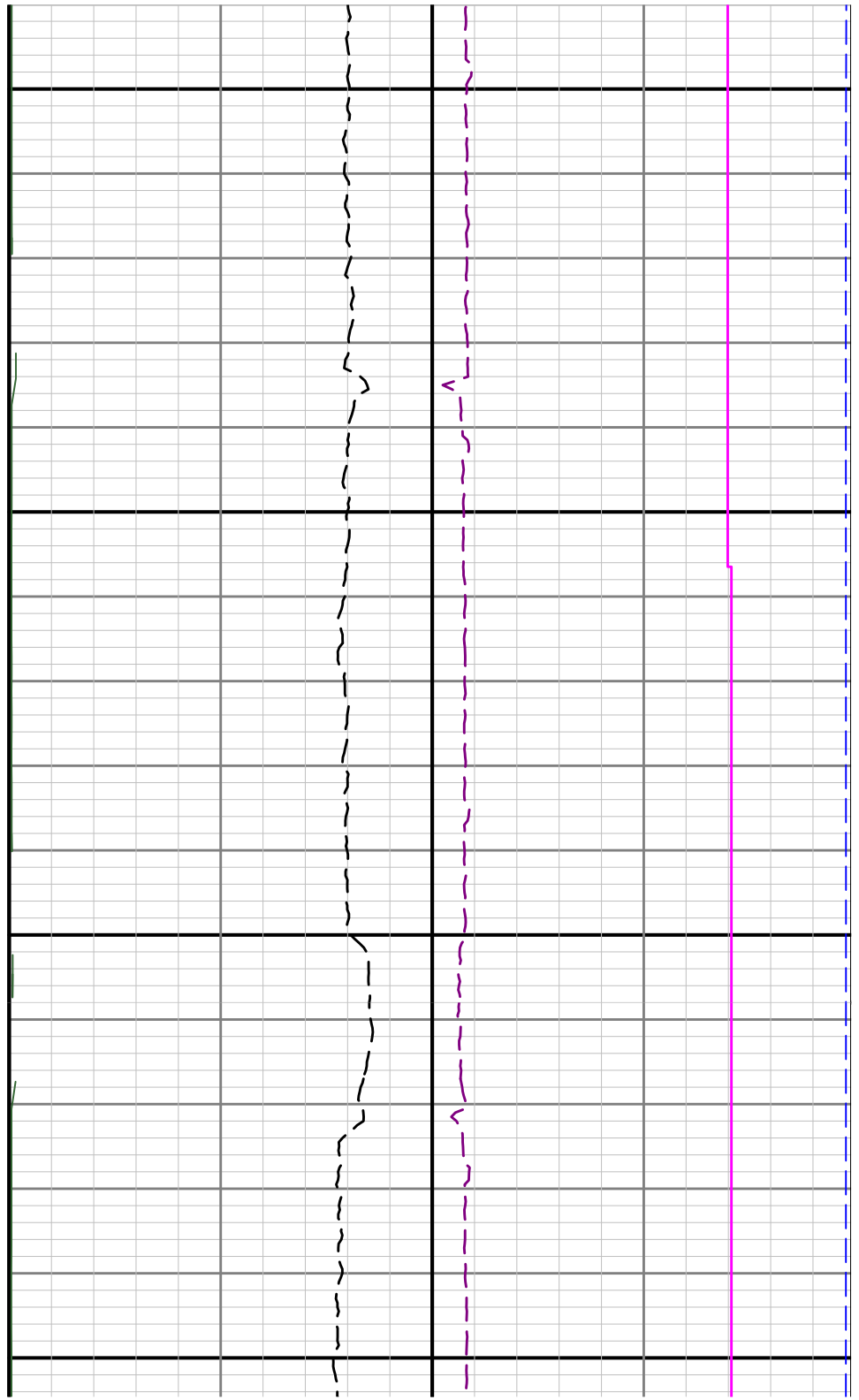
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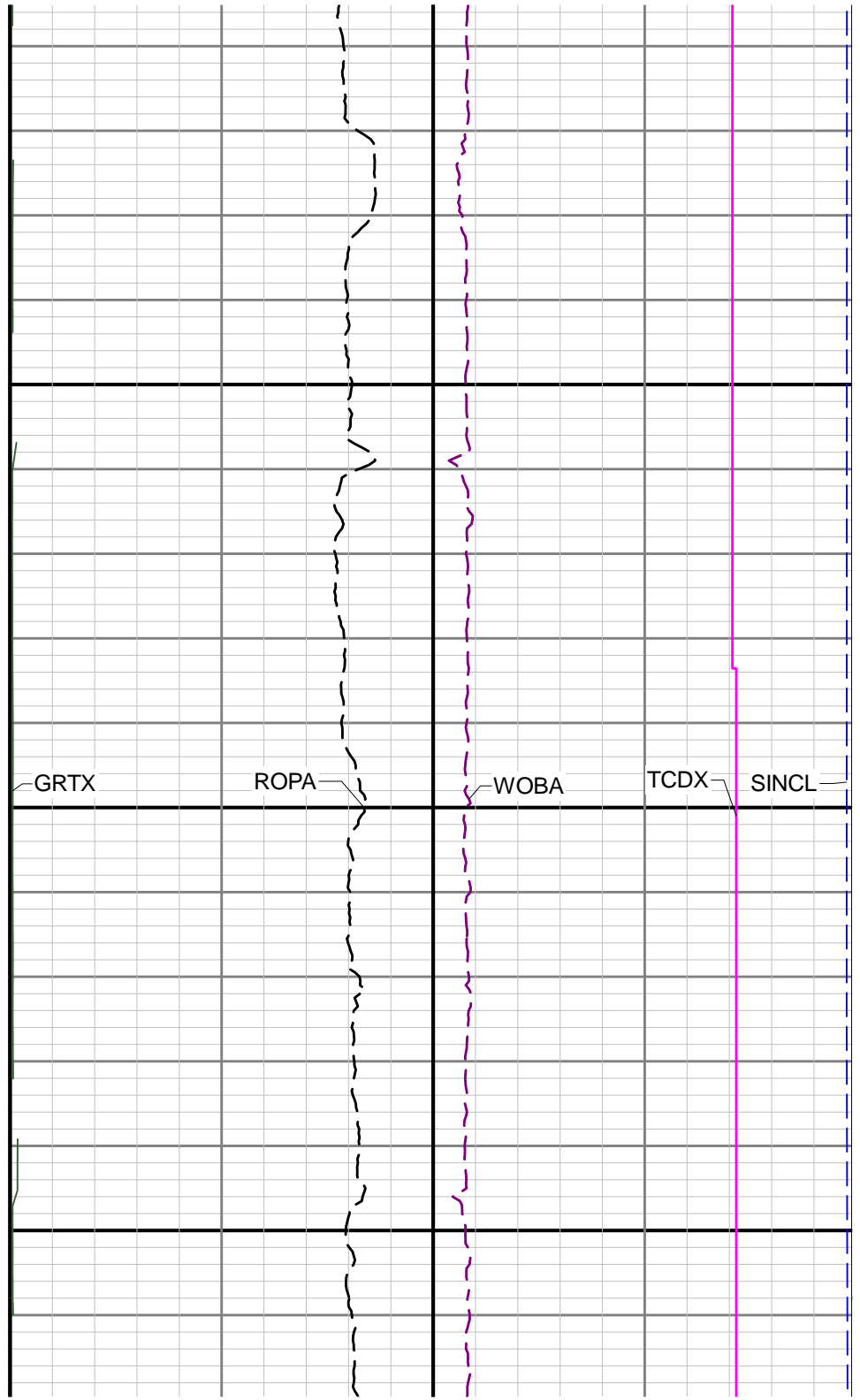
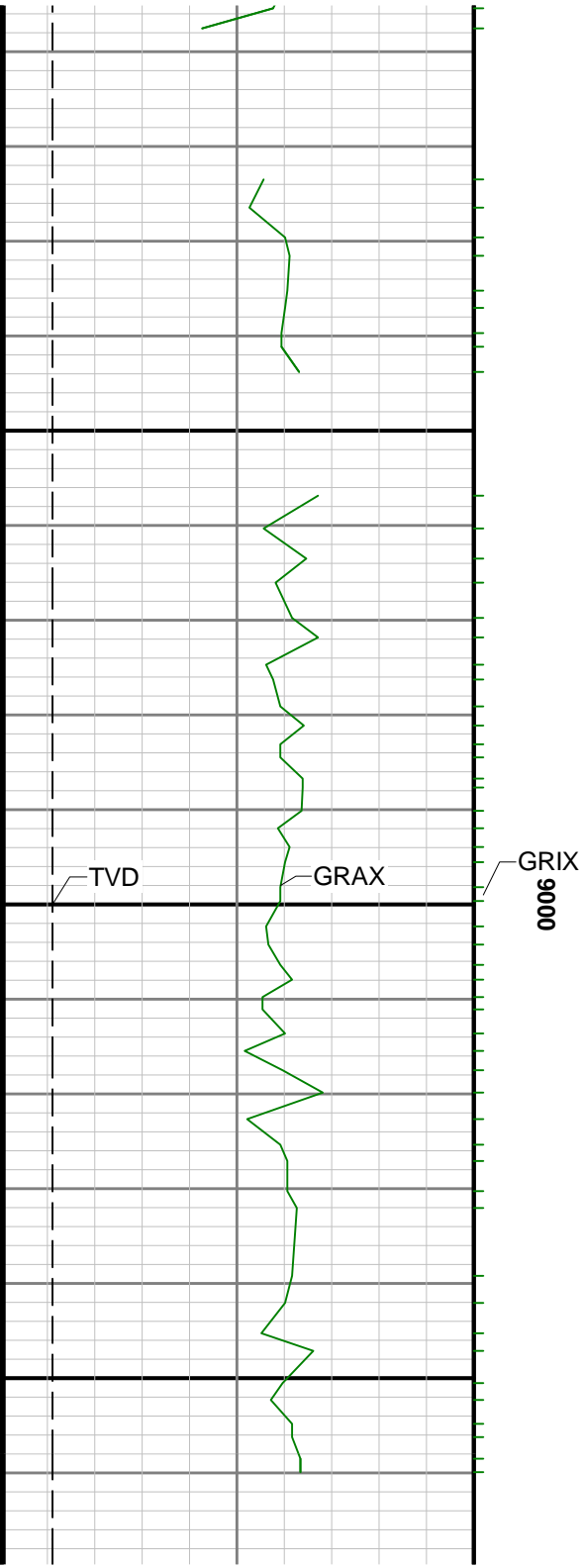


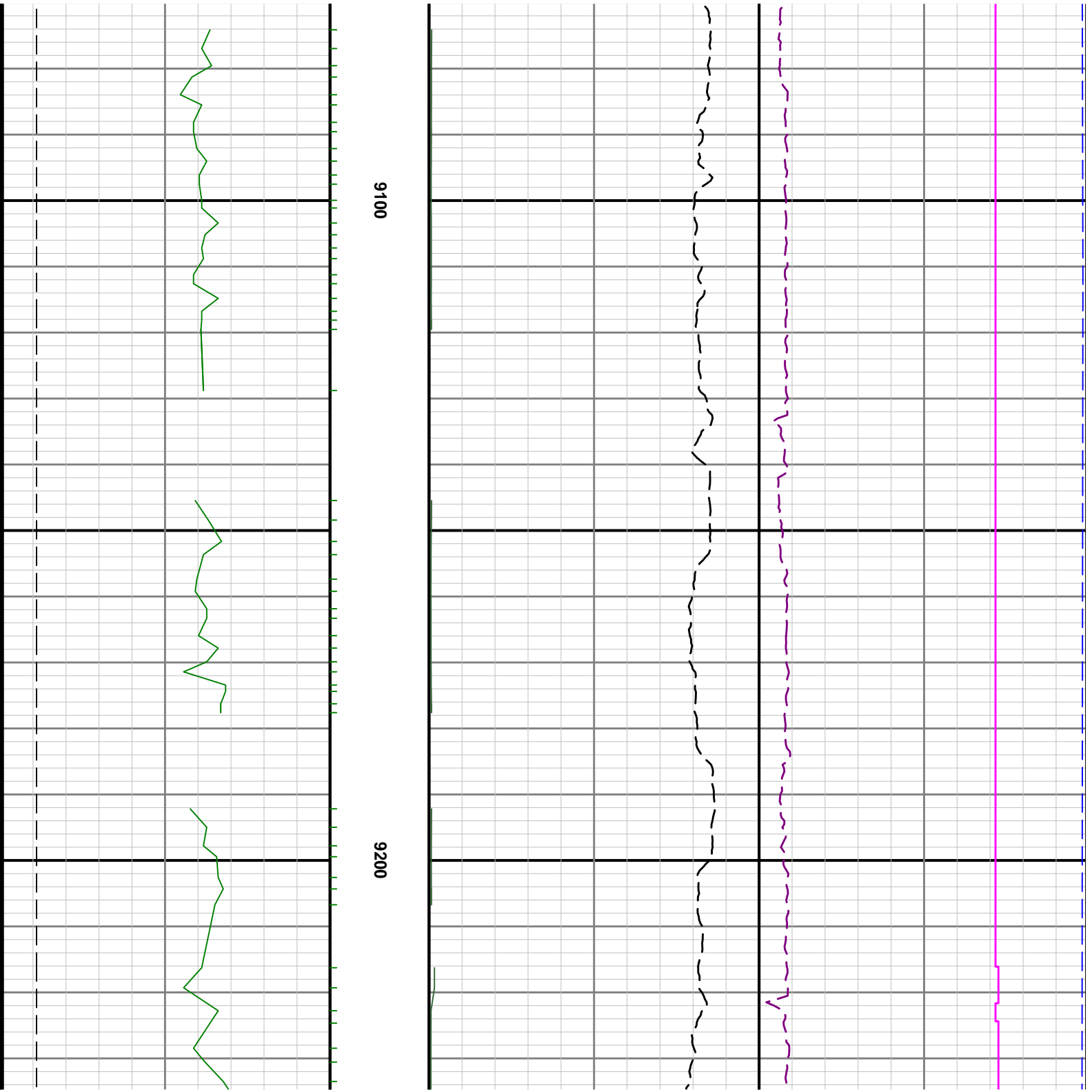


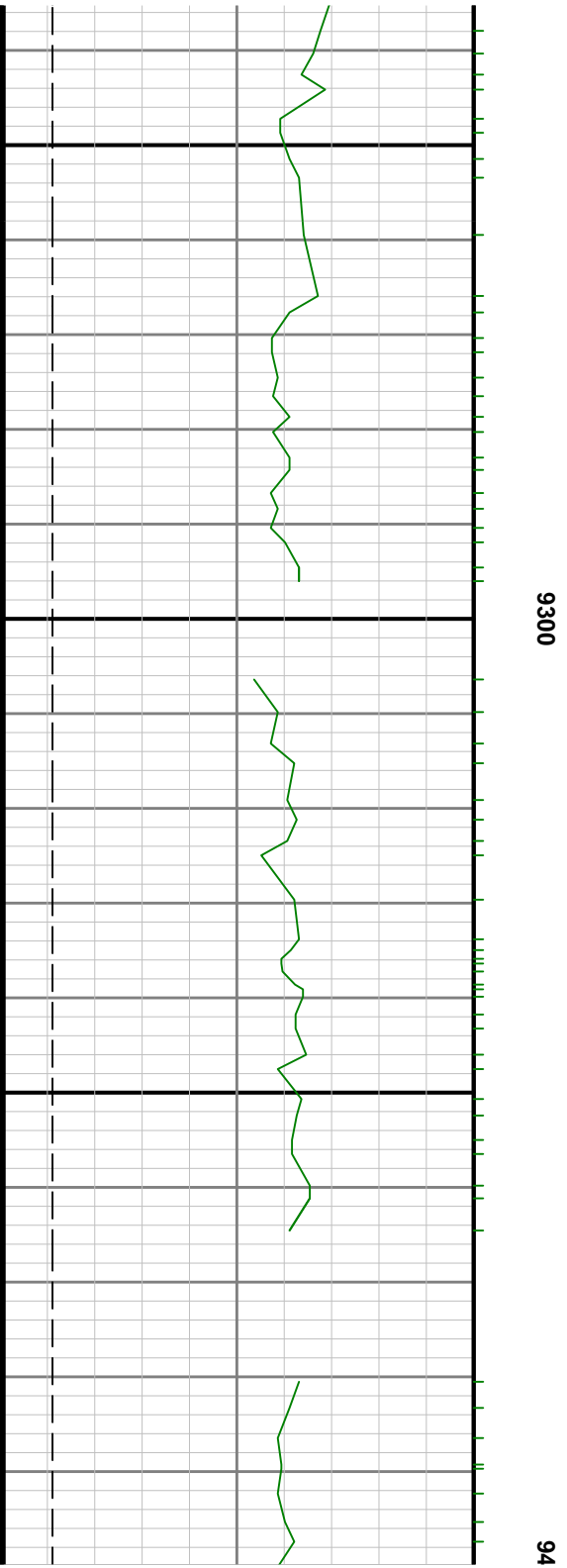
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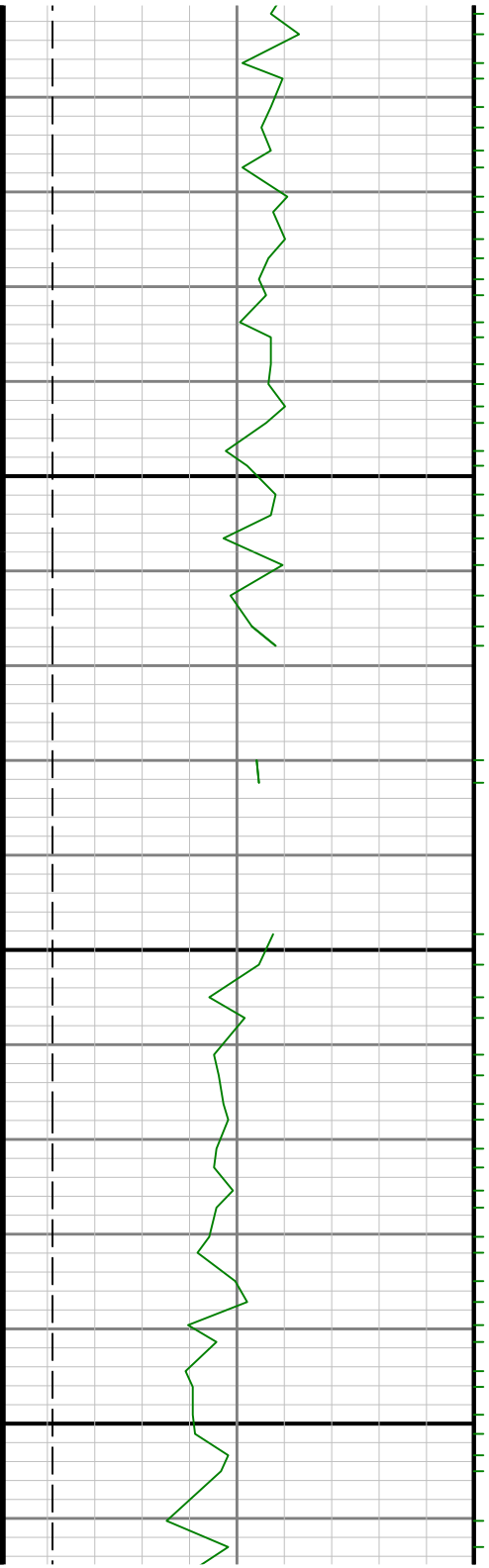
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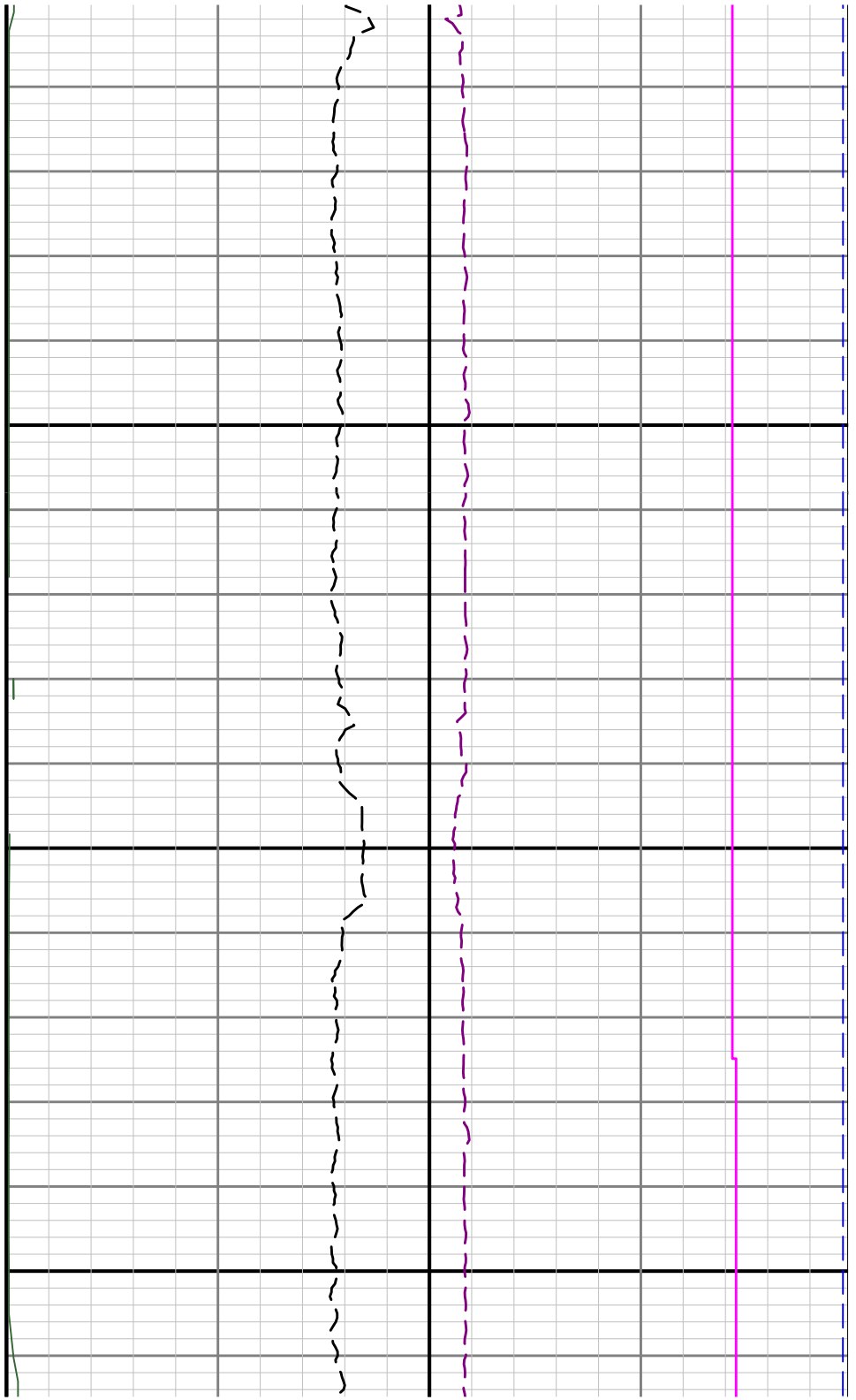


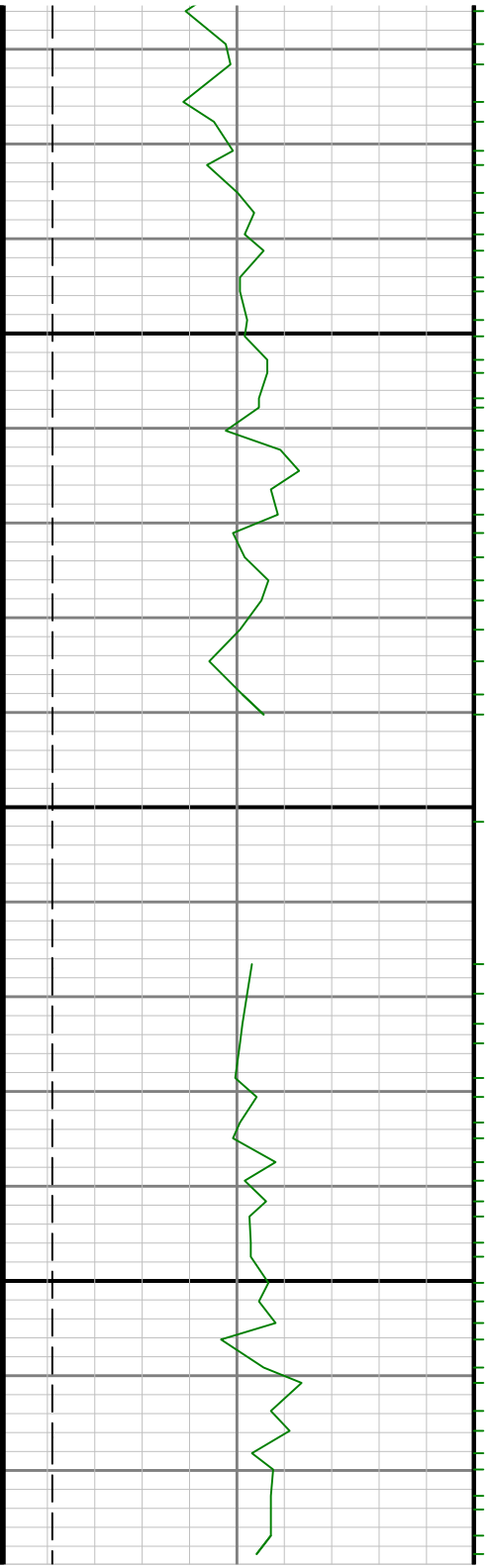






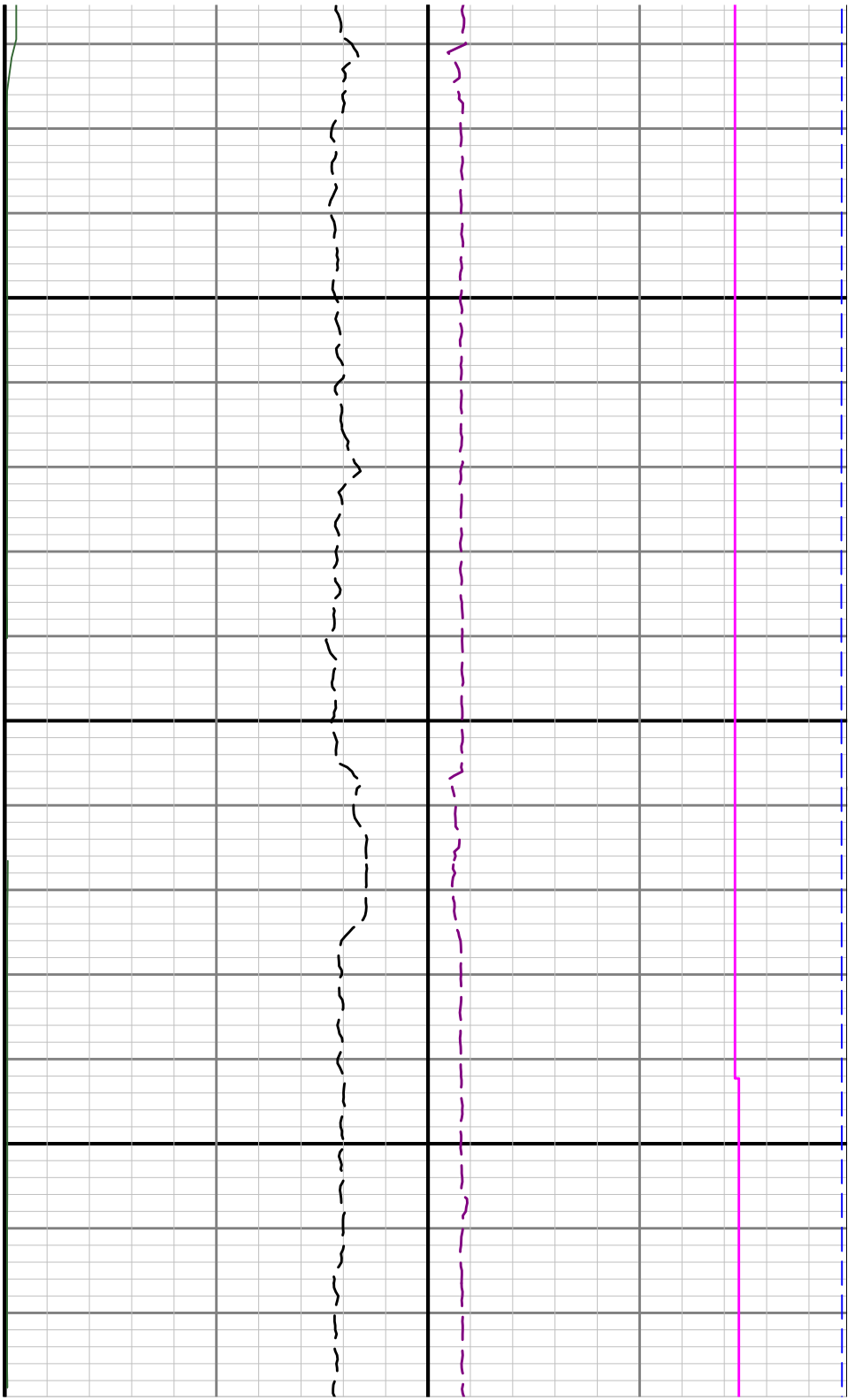
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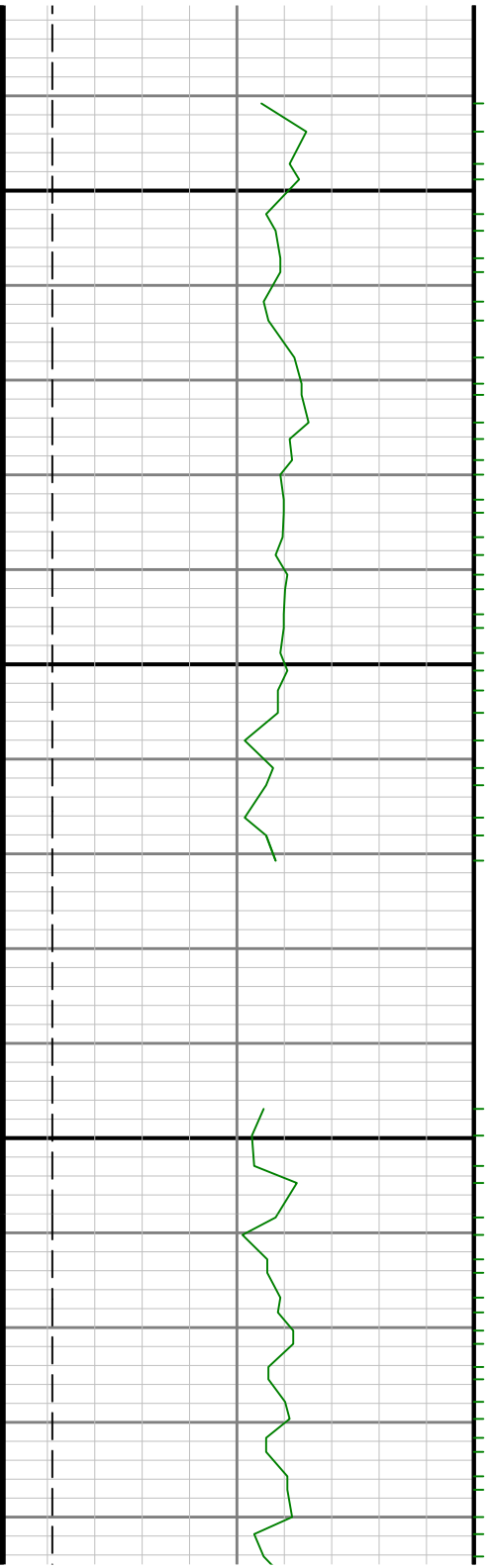




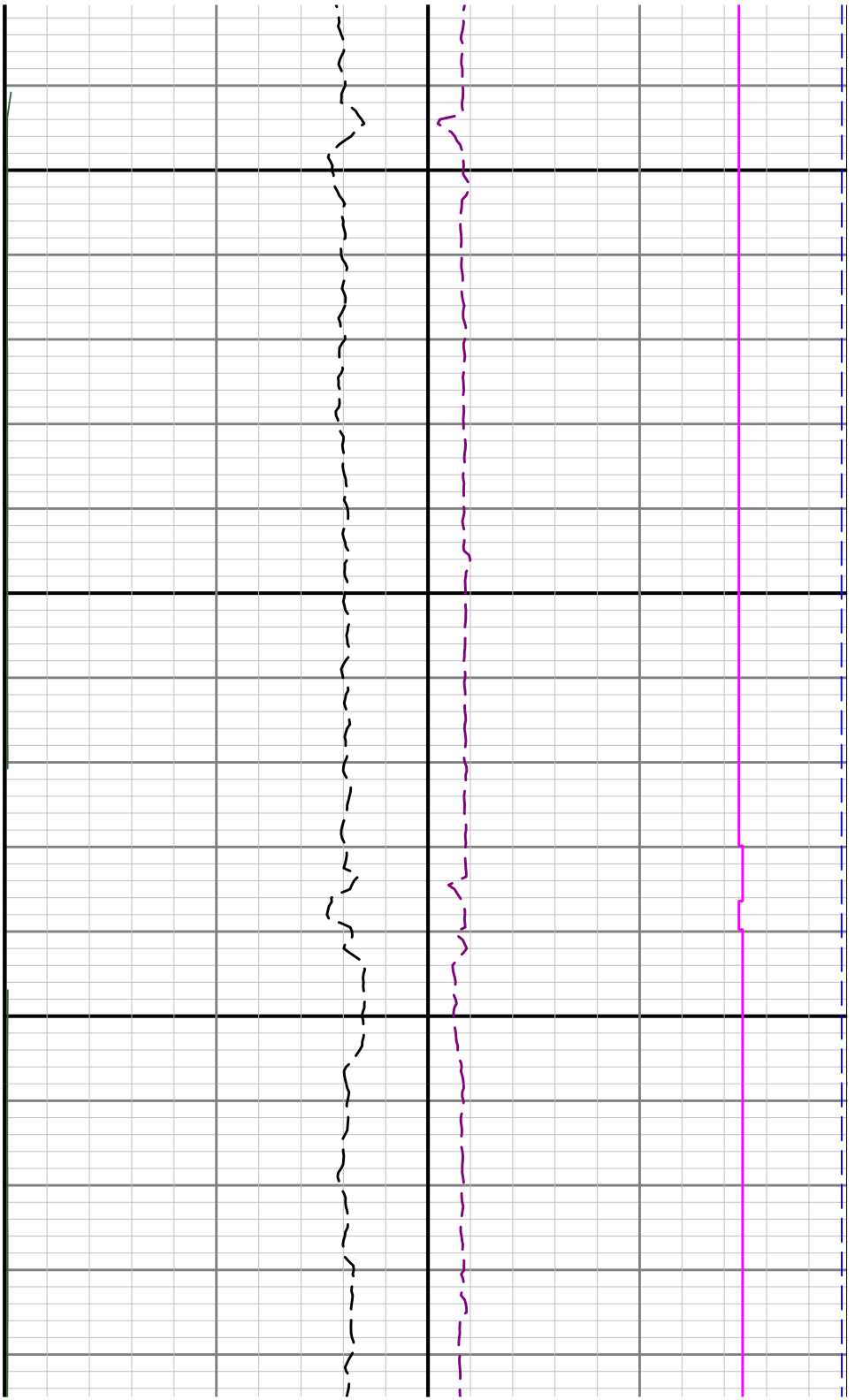
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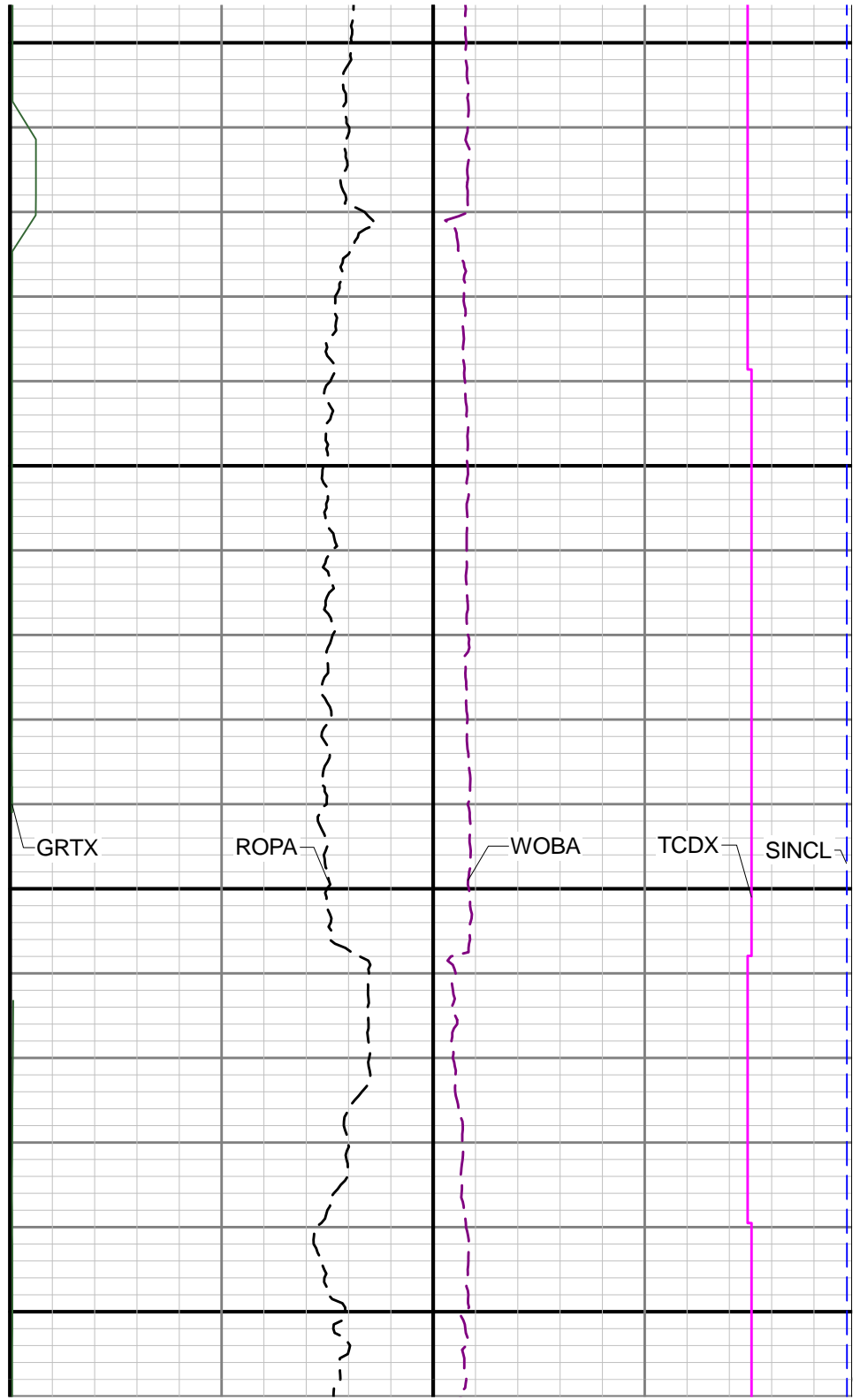
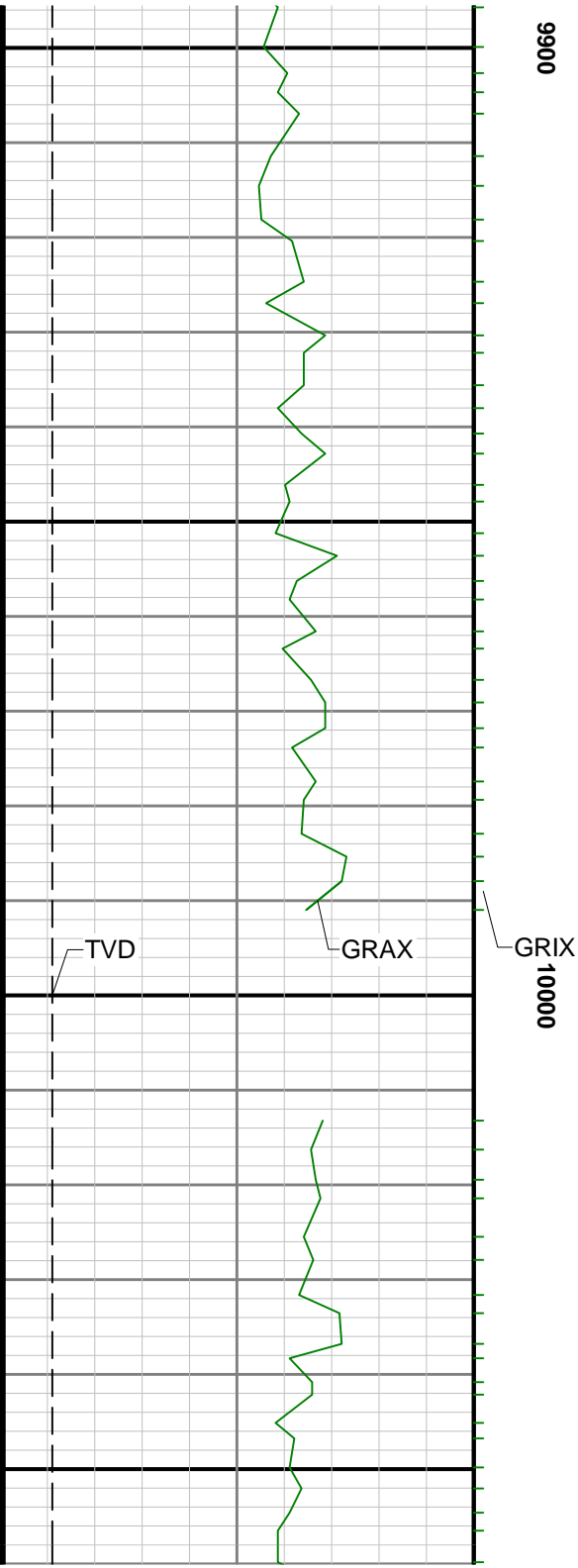
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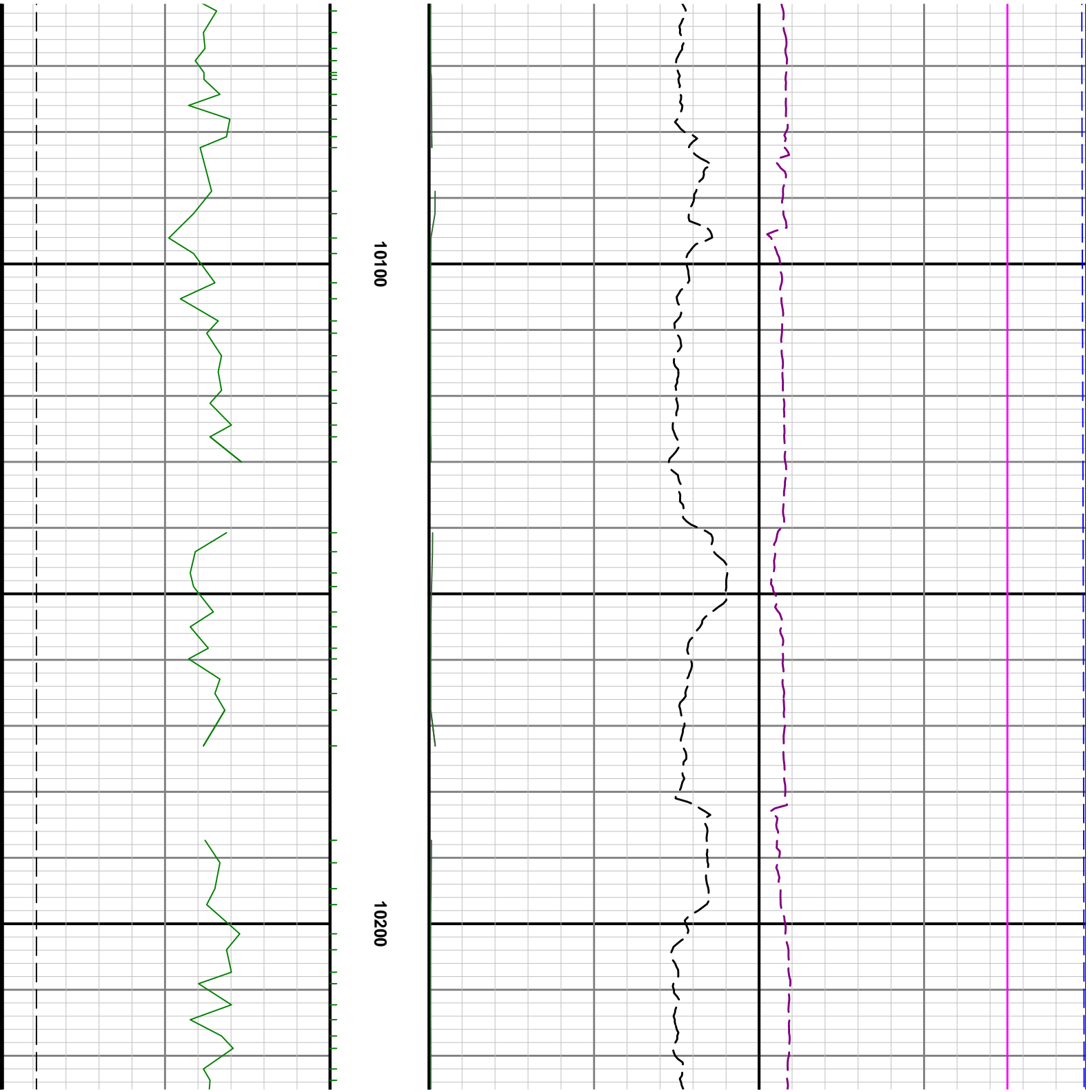


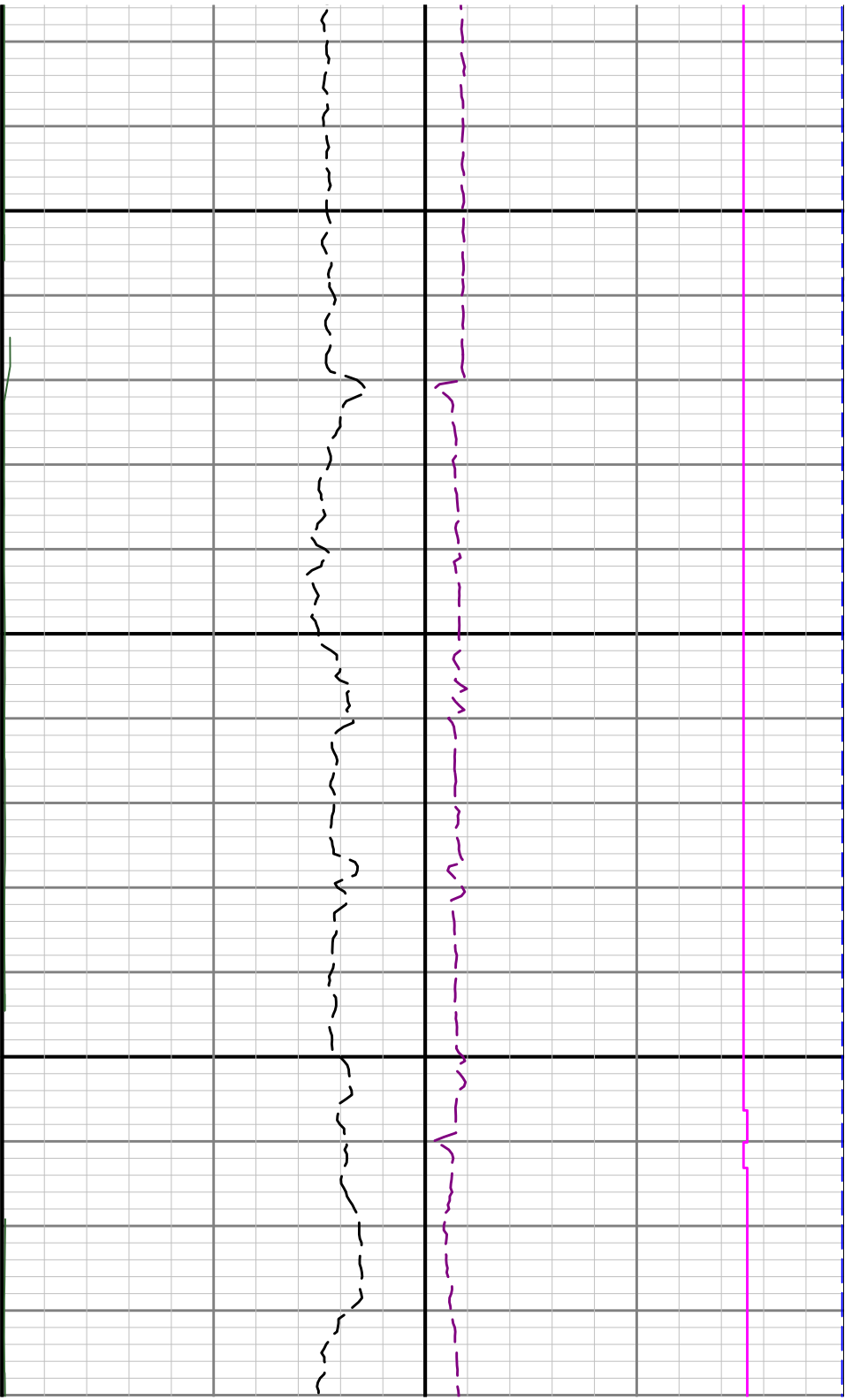


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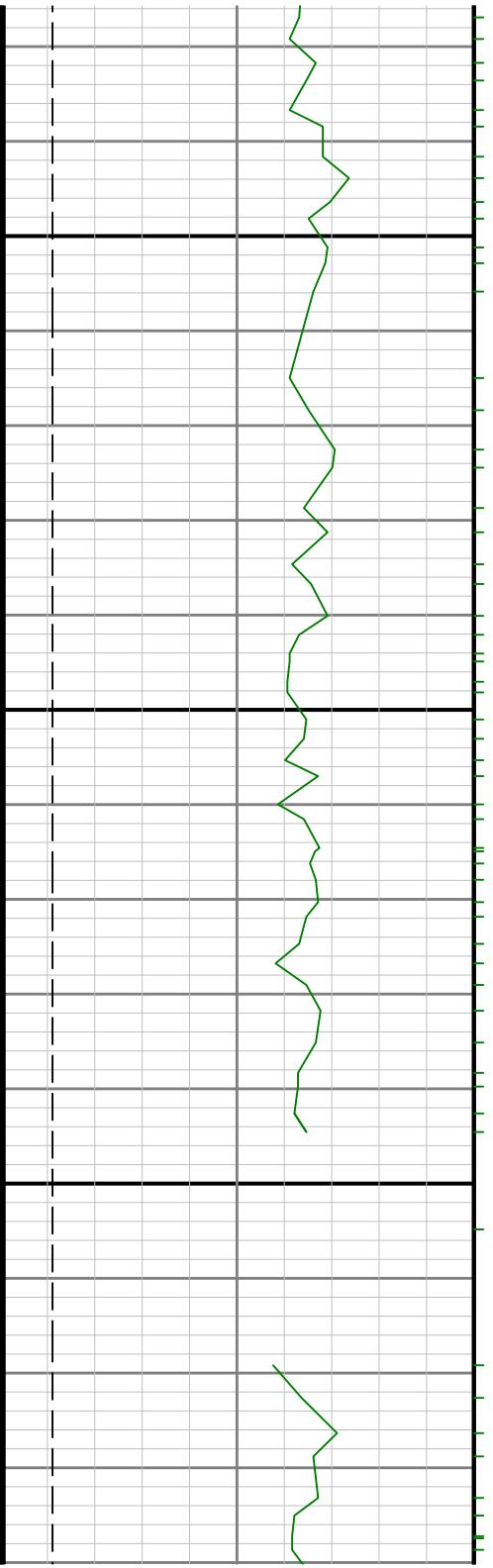


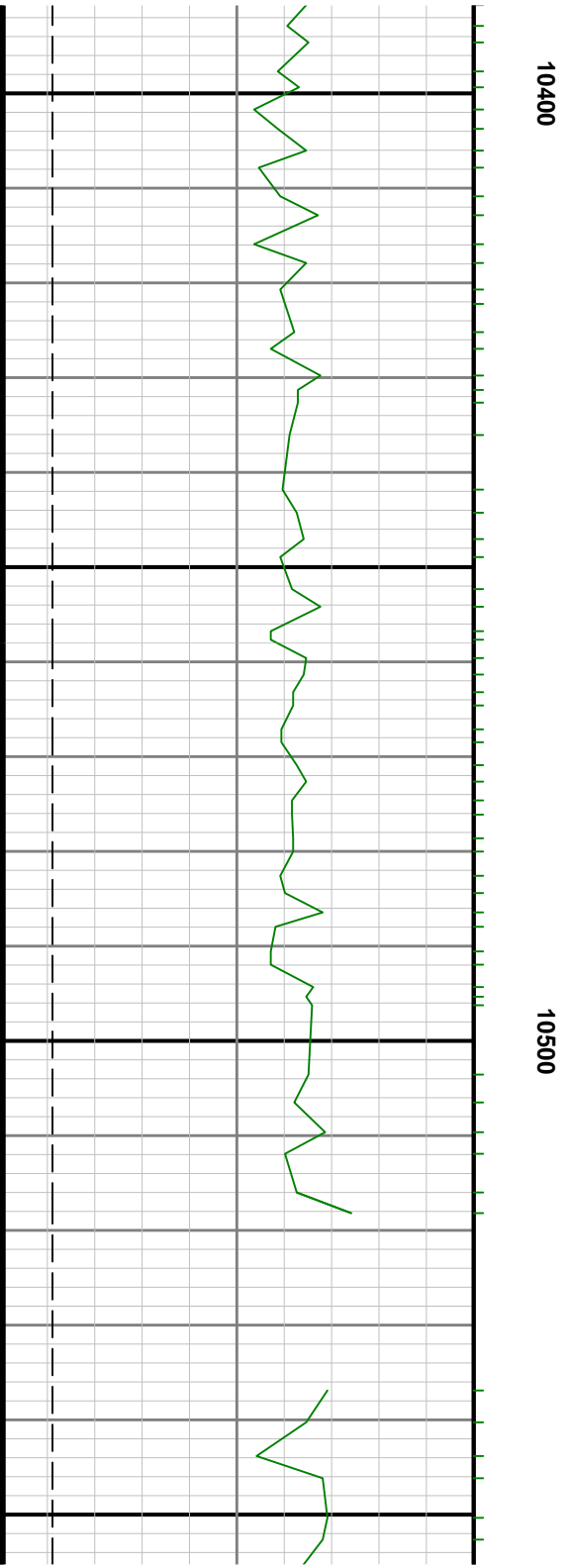
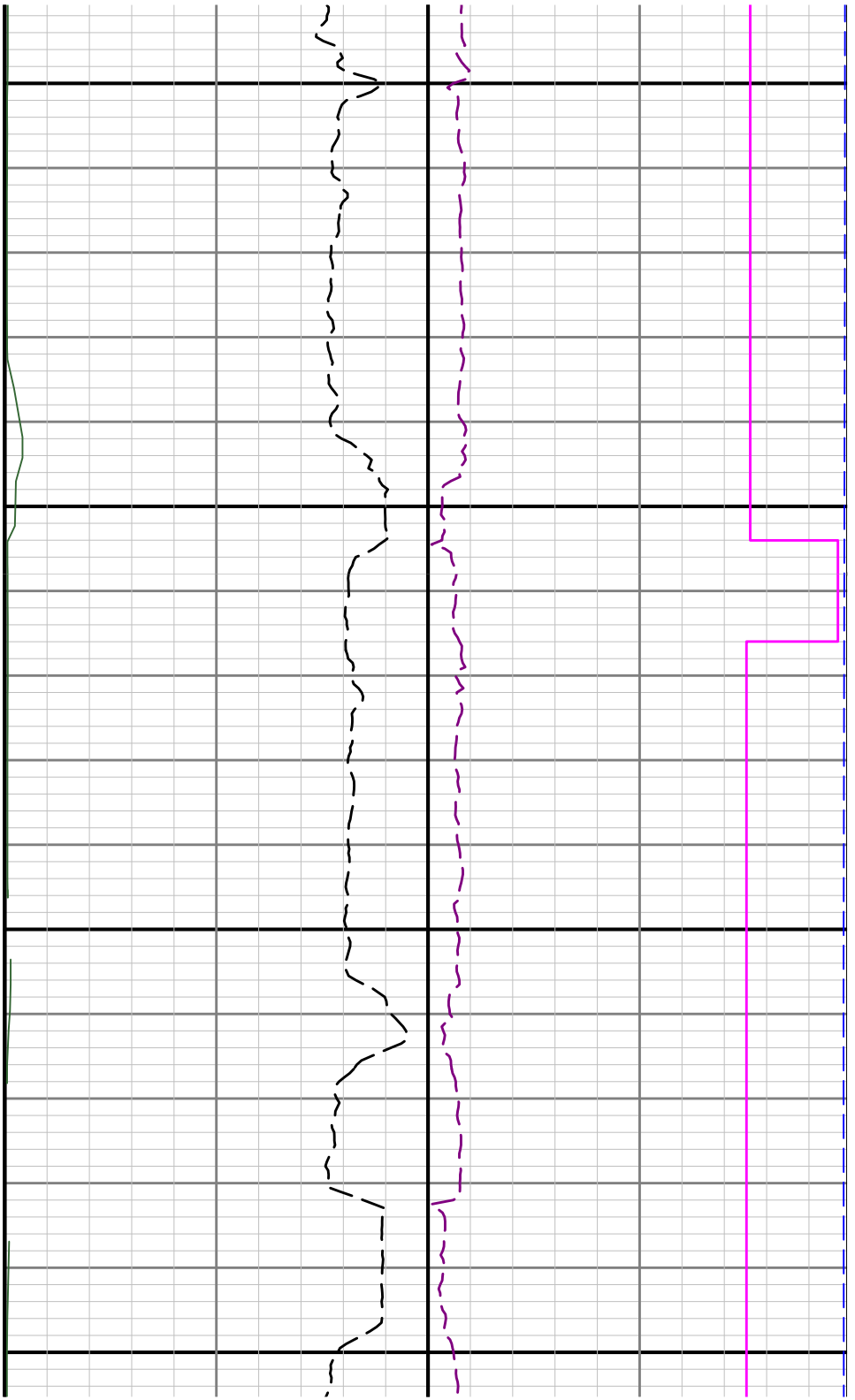


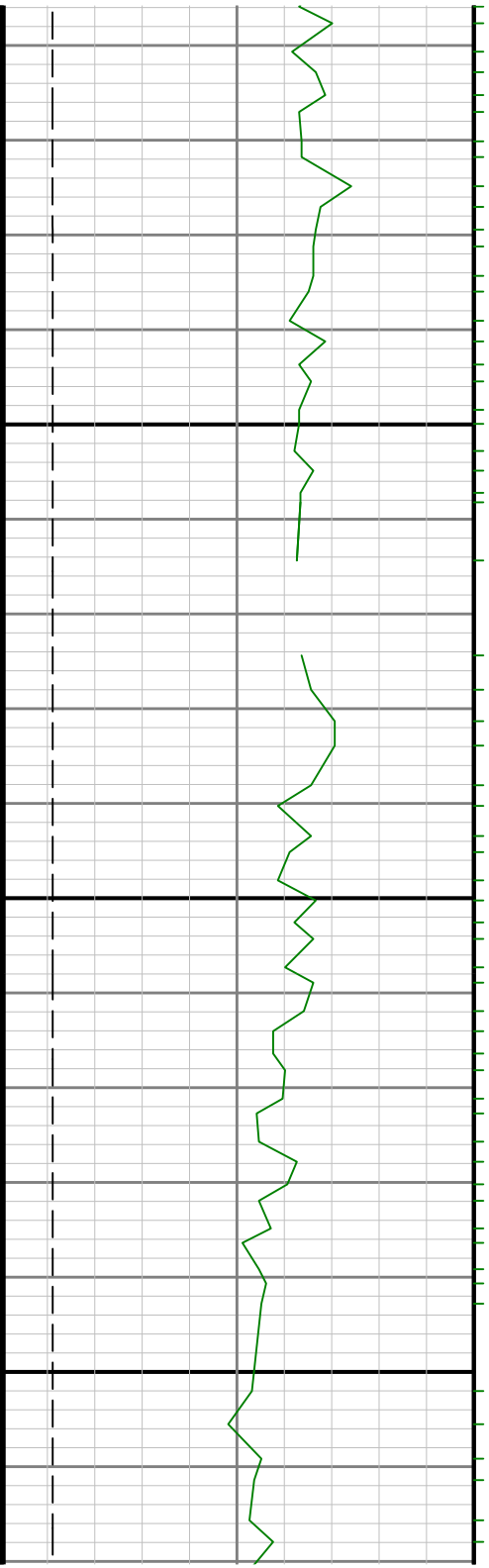




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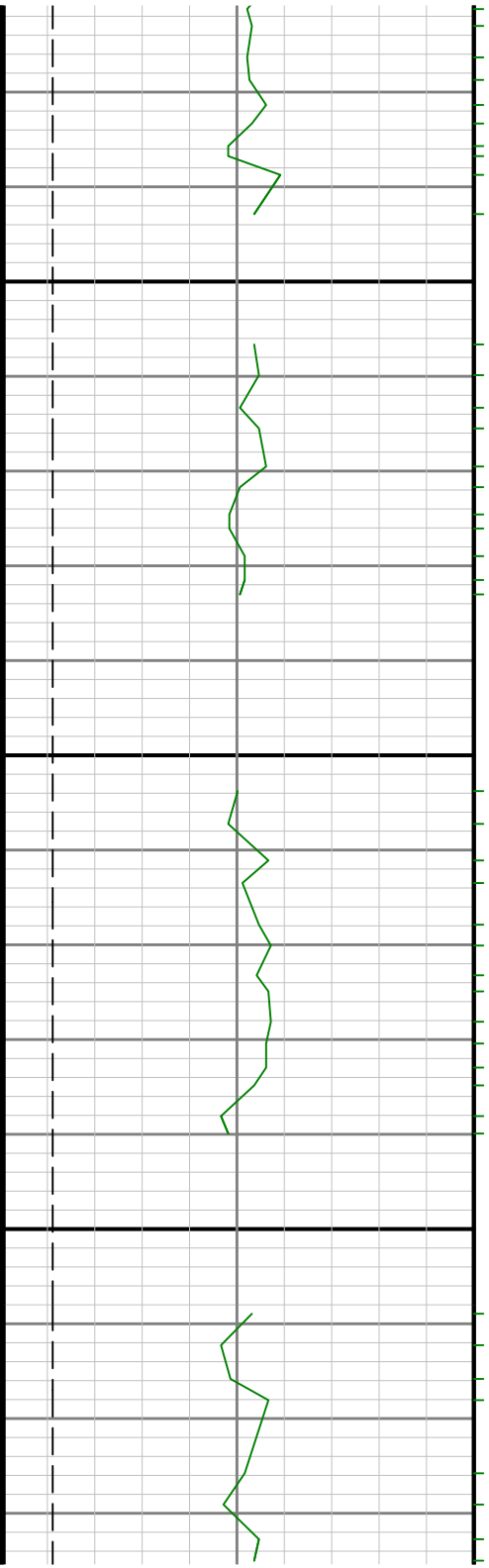




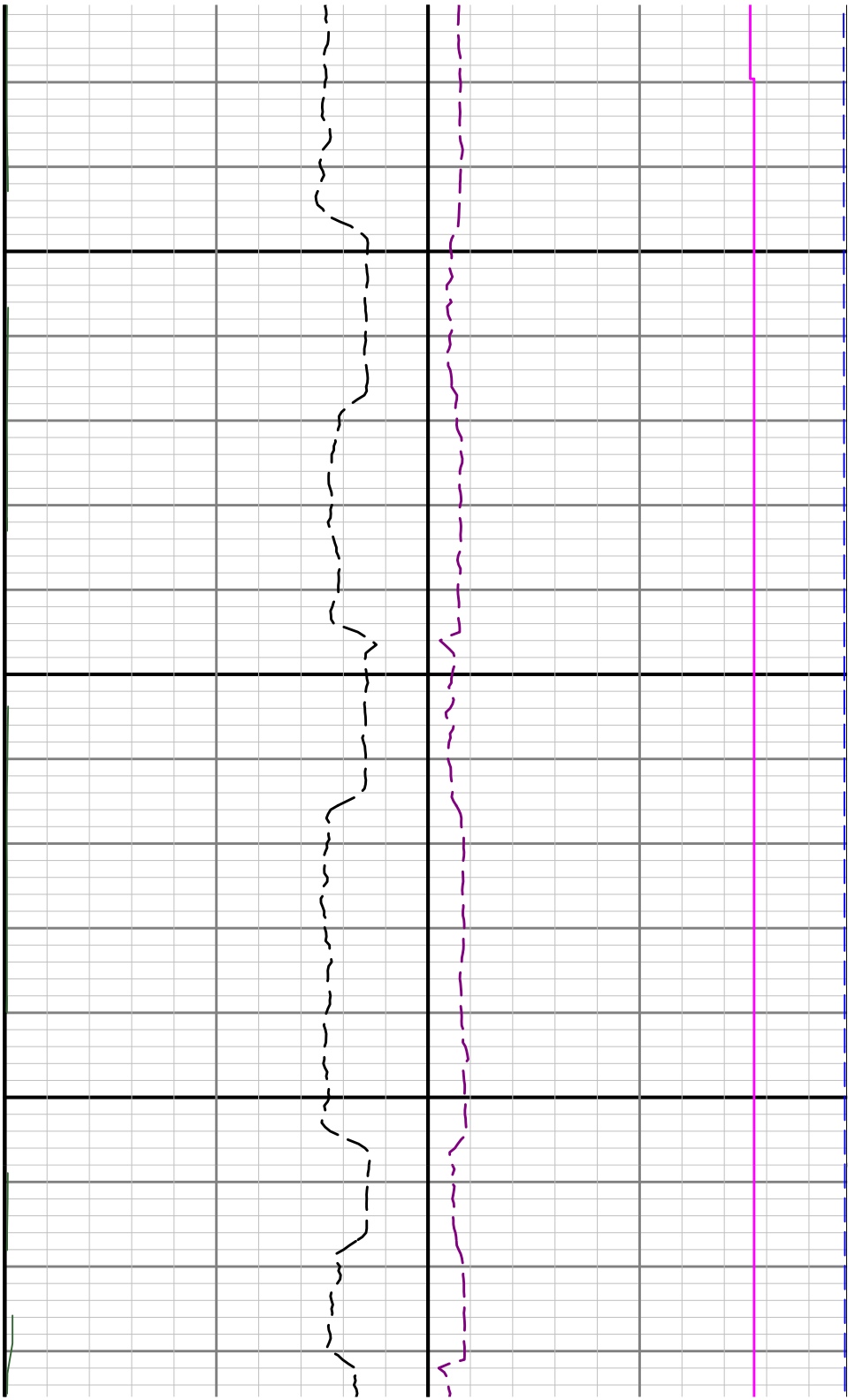
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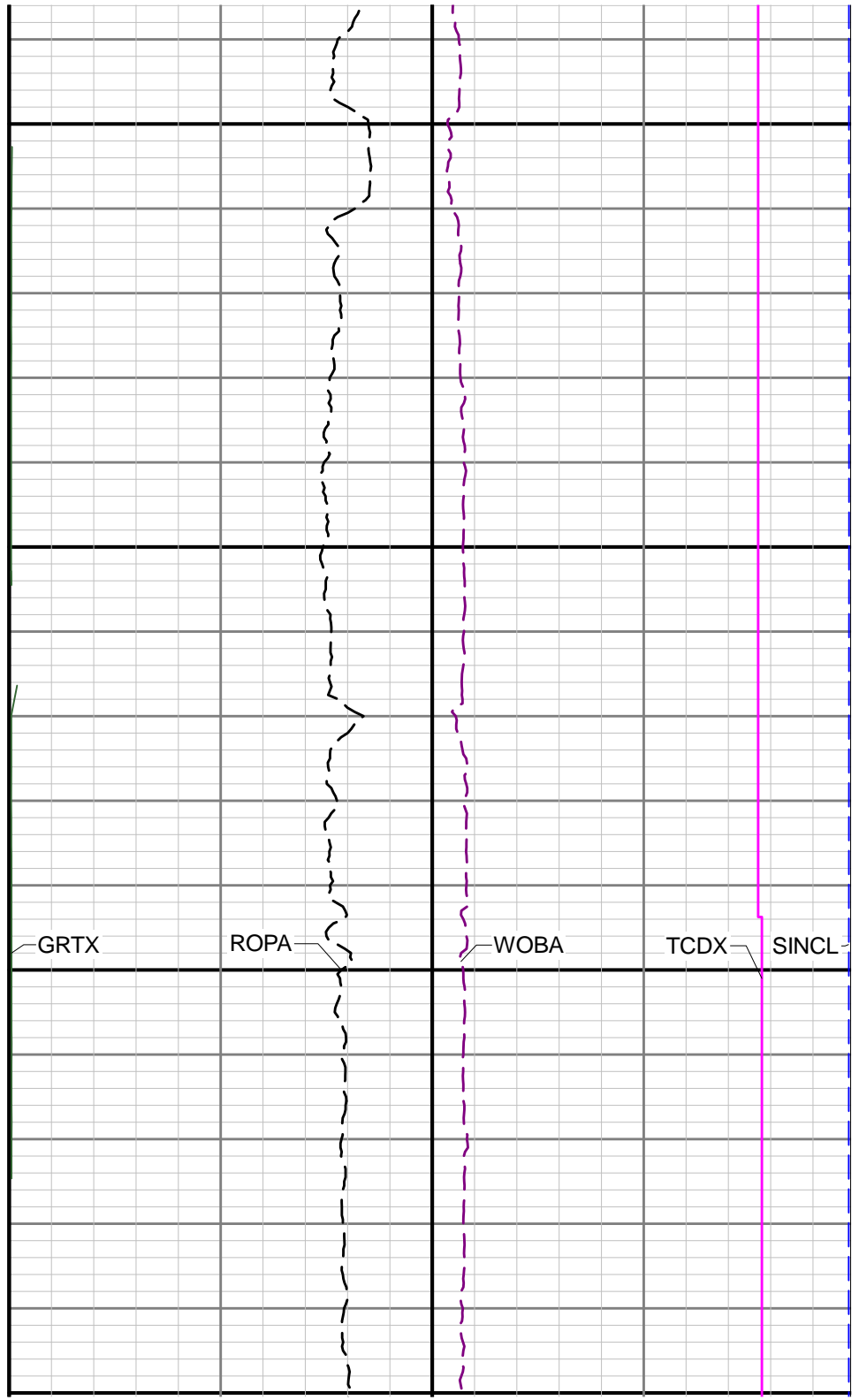
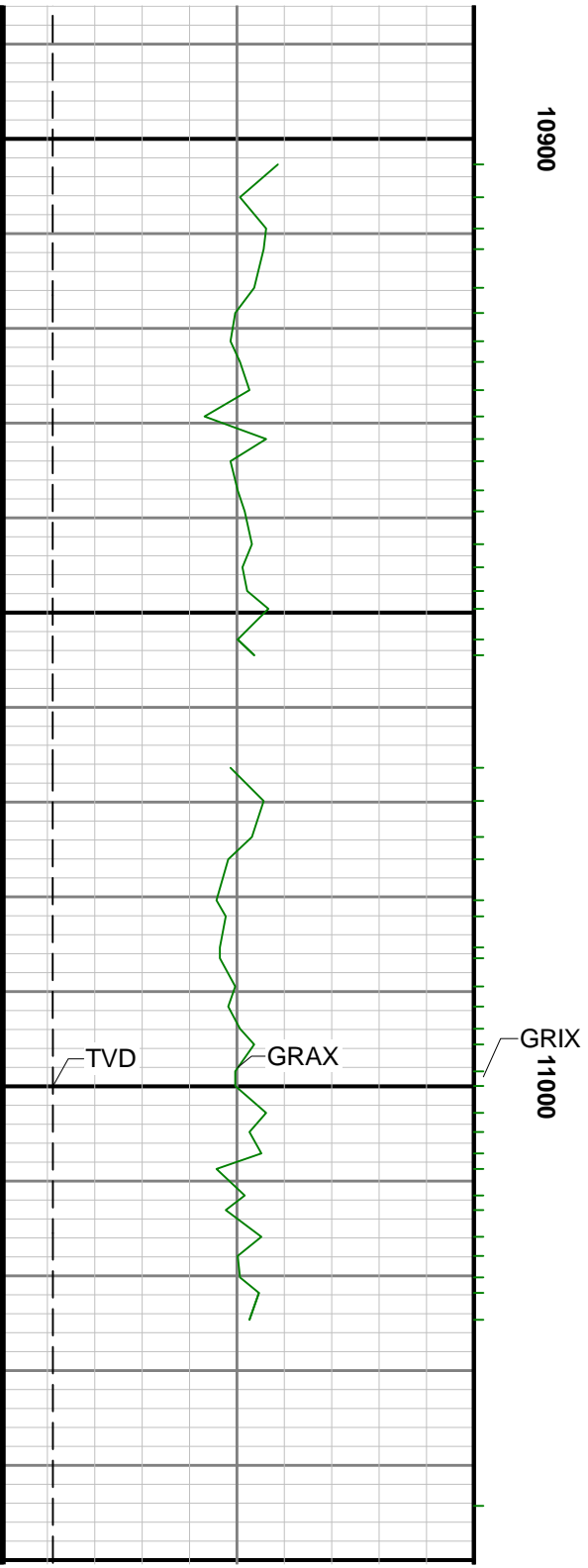
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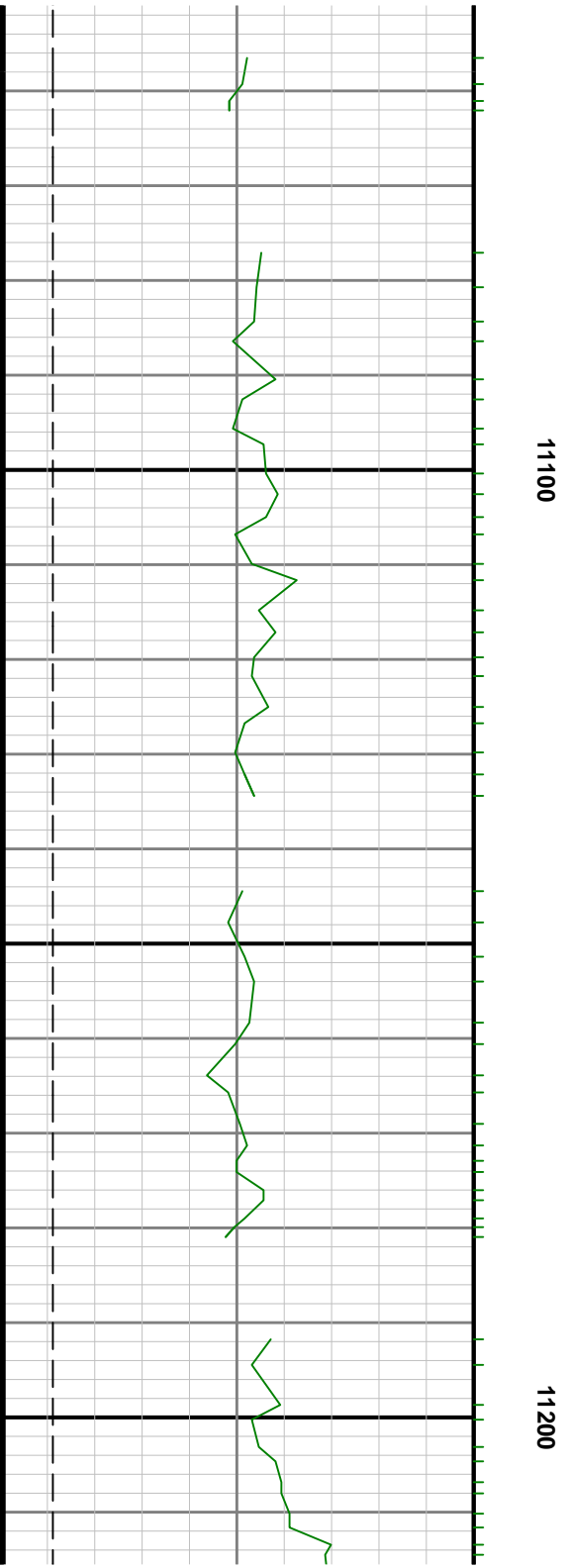


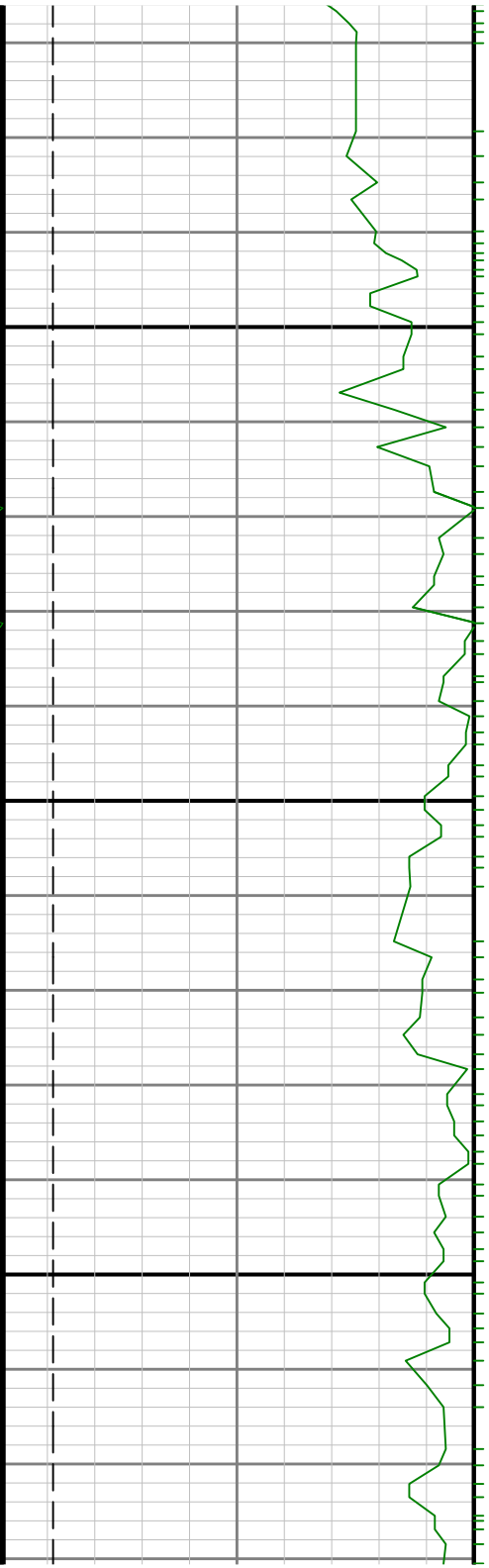


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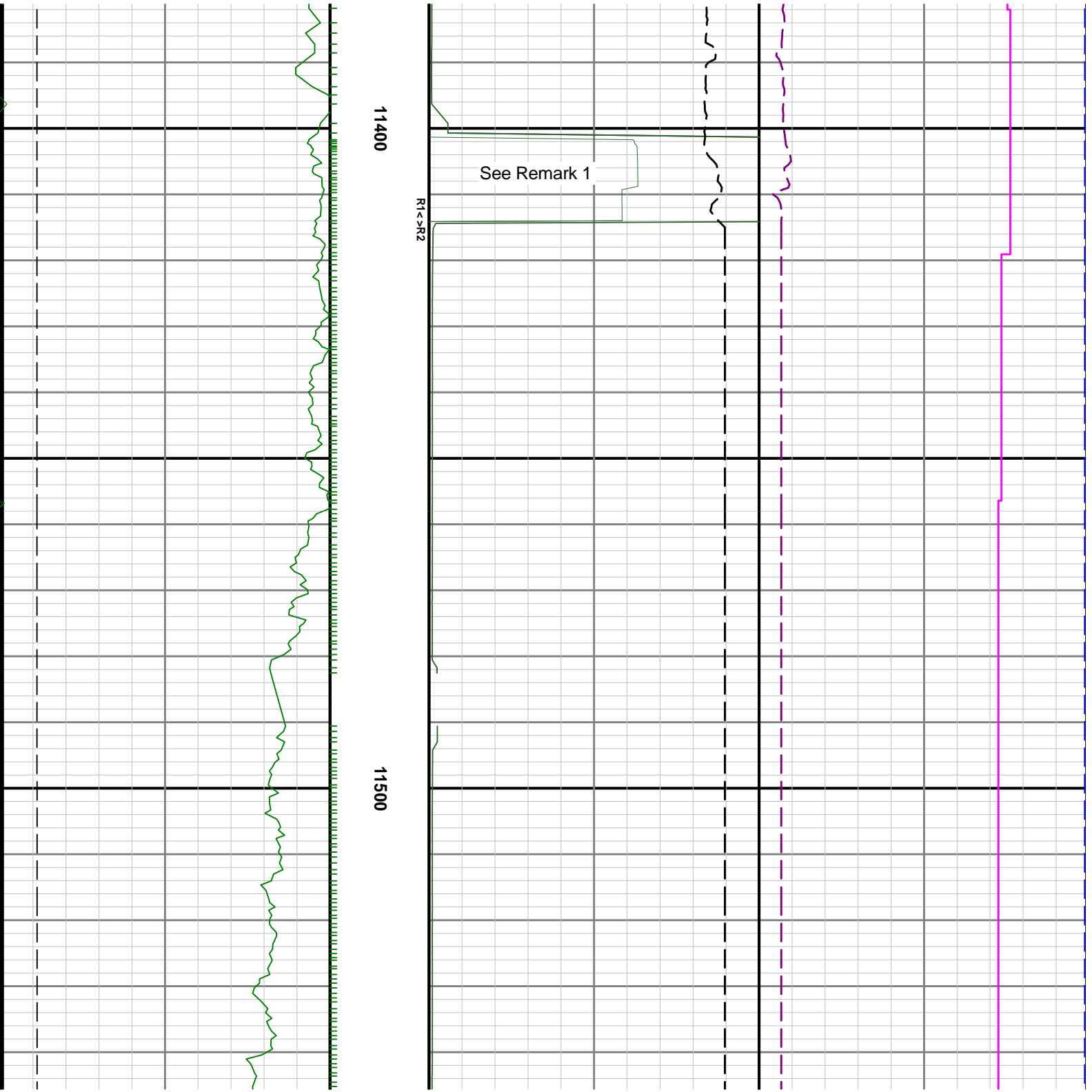


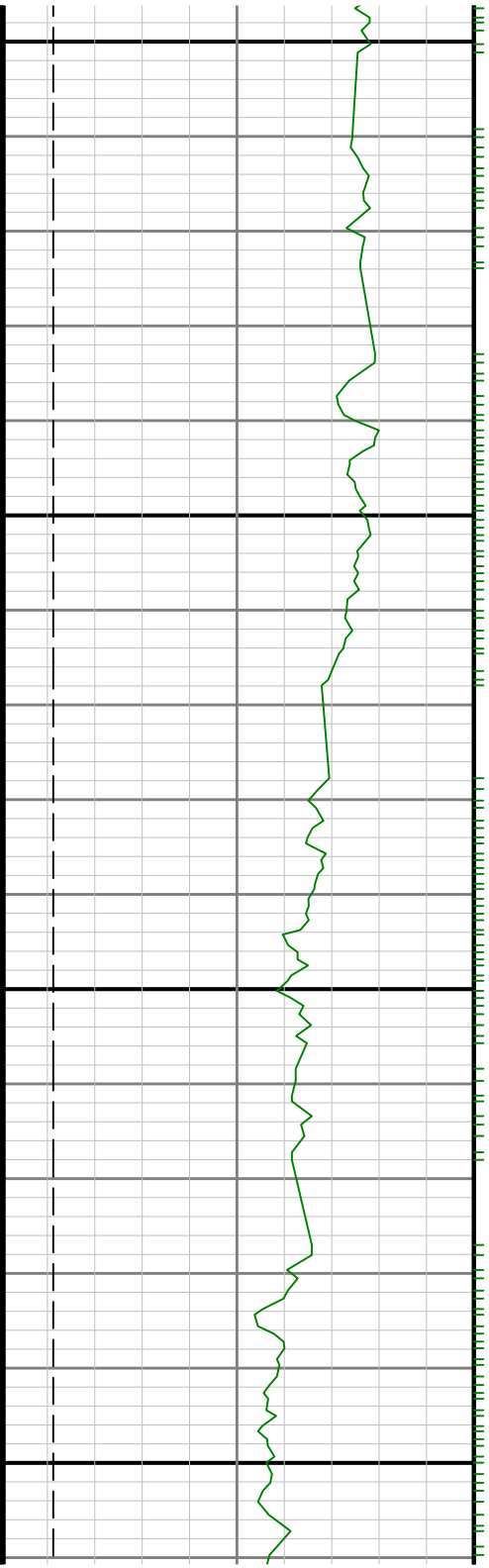




11300

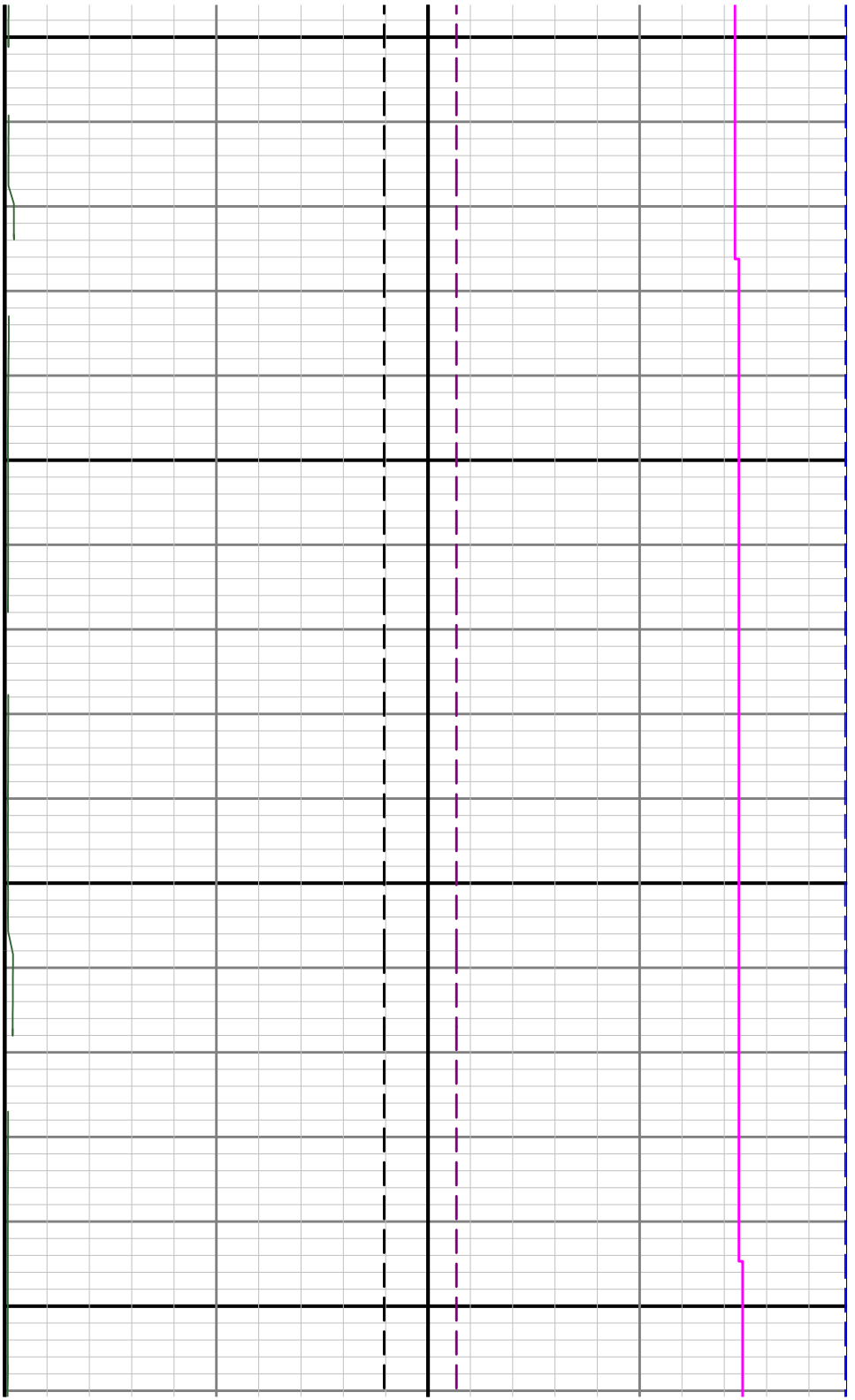


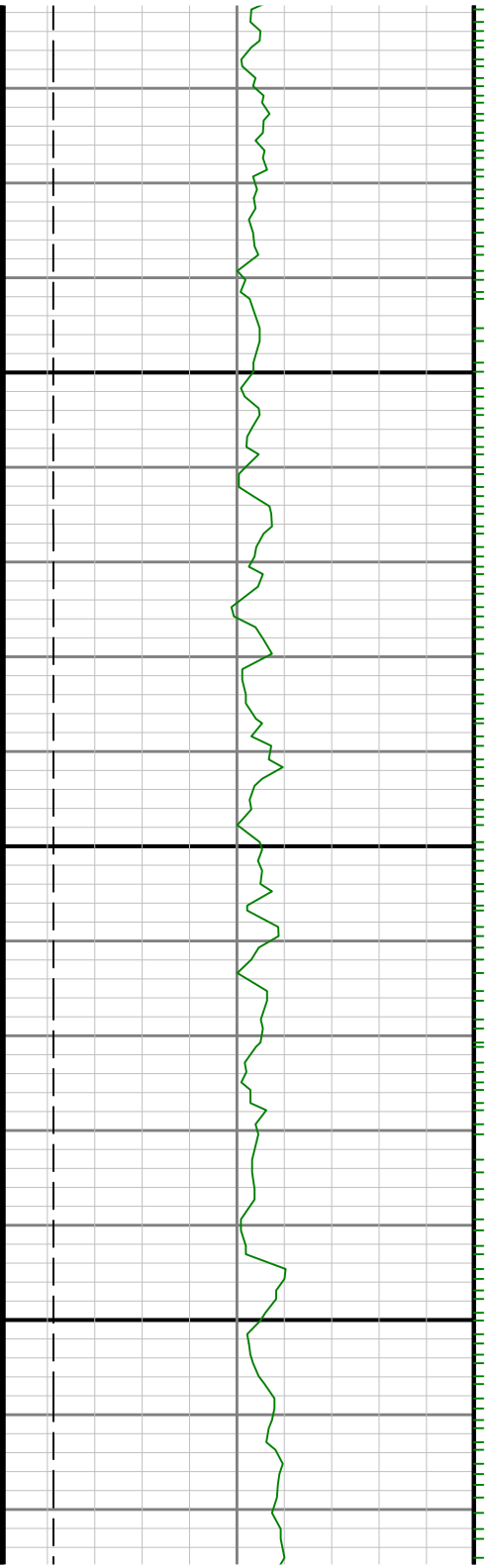




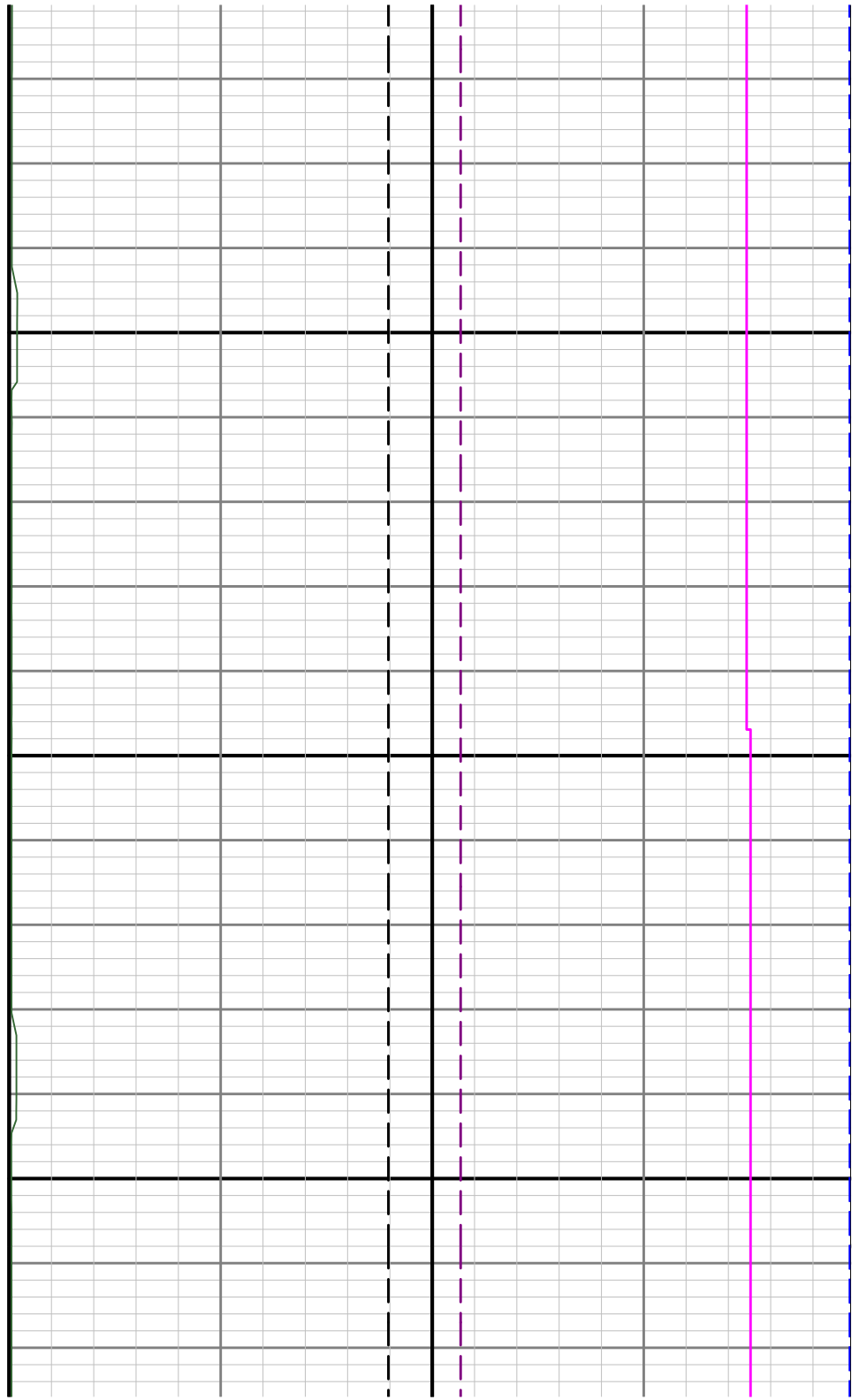
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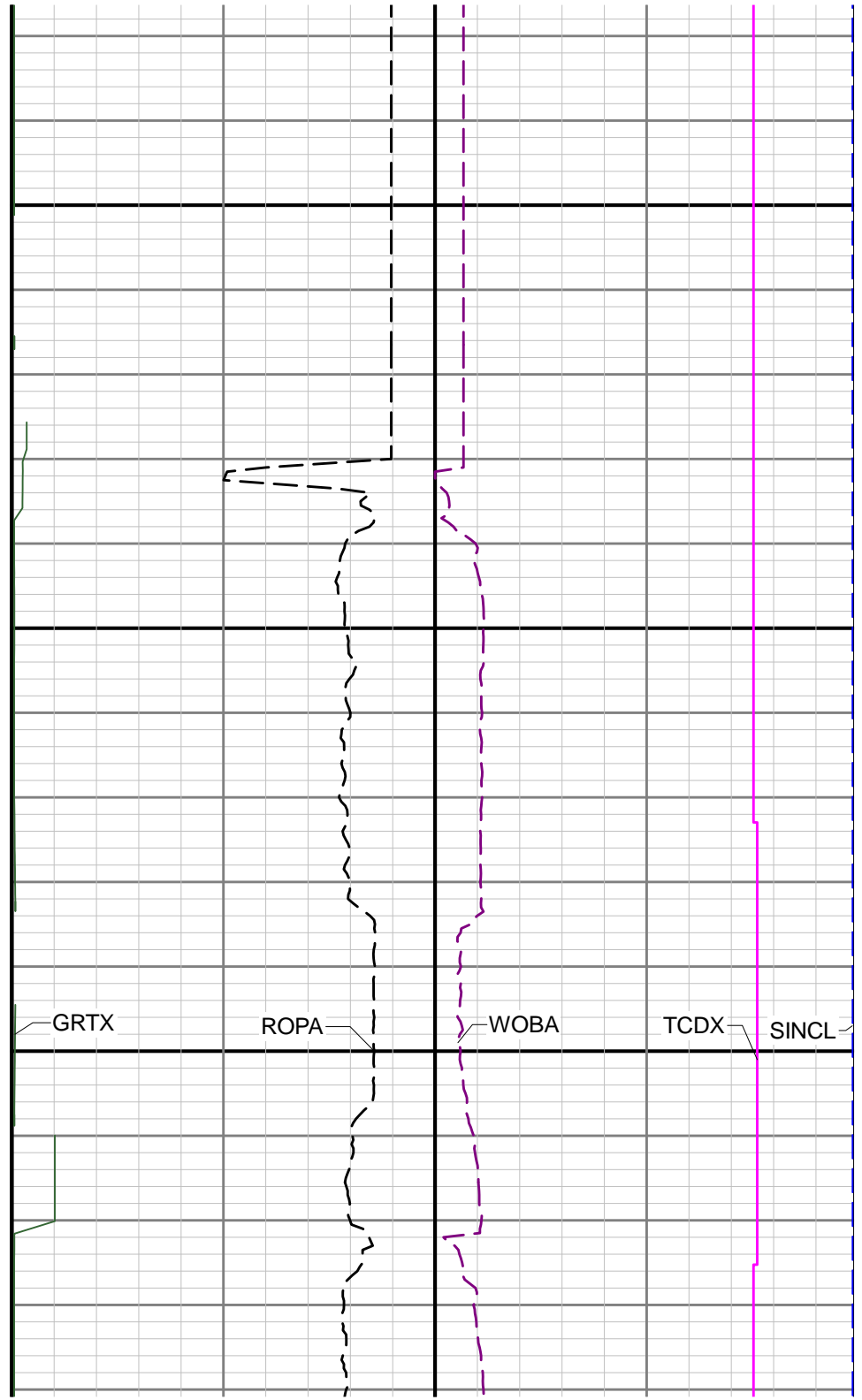
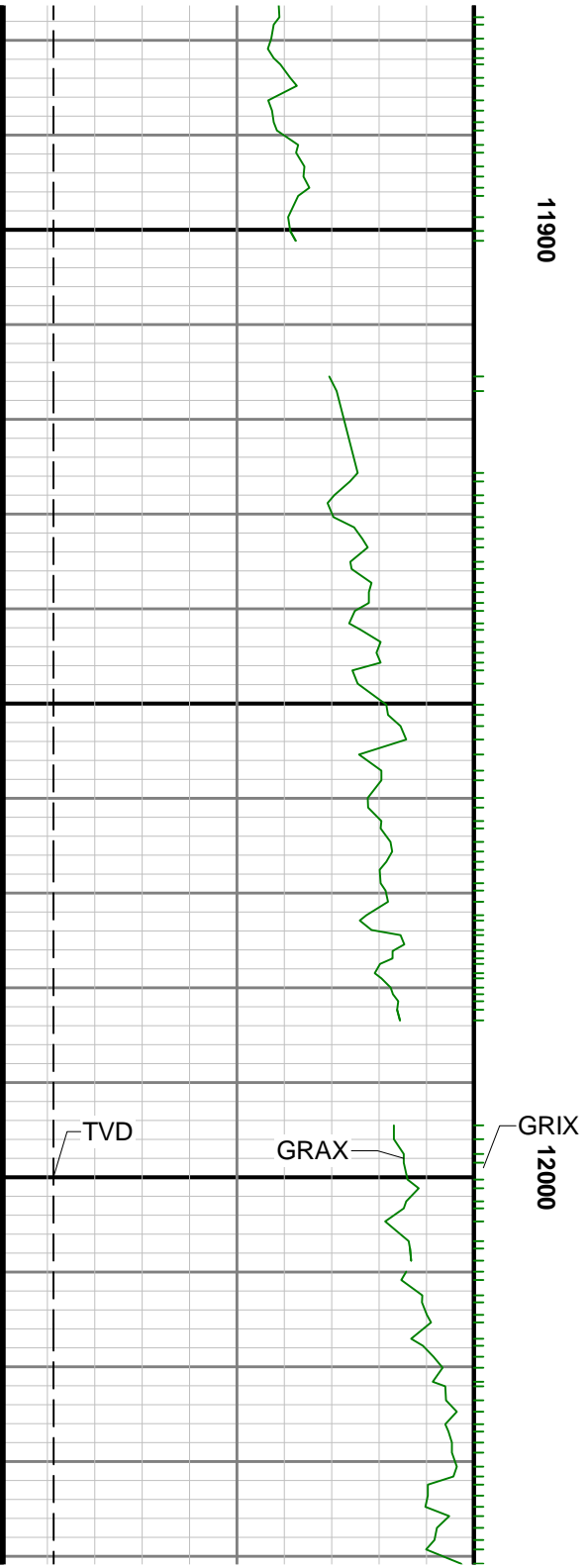
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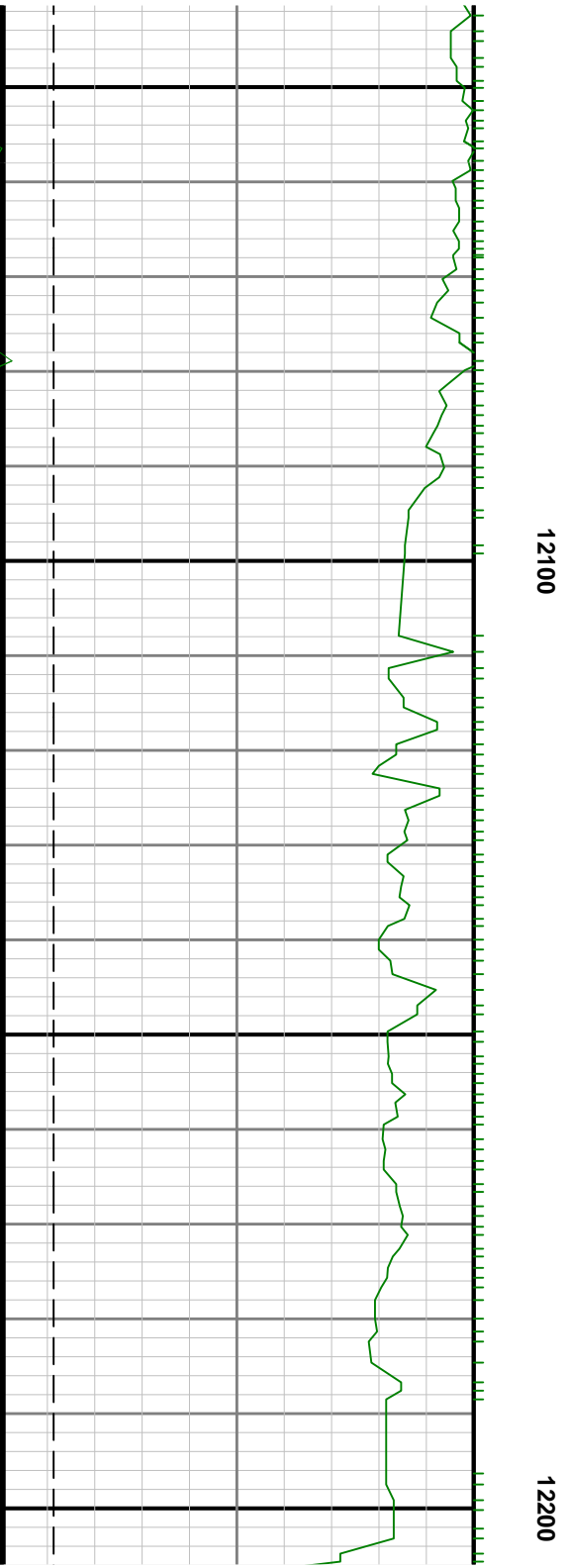
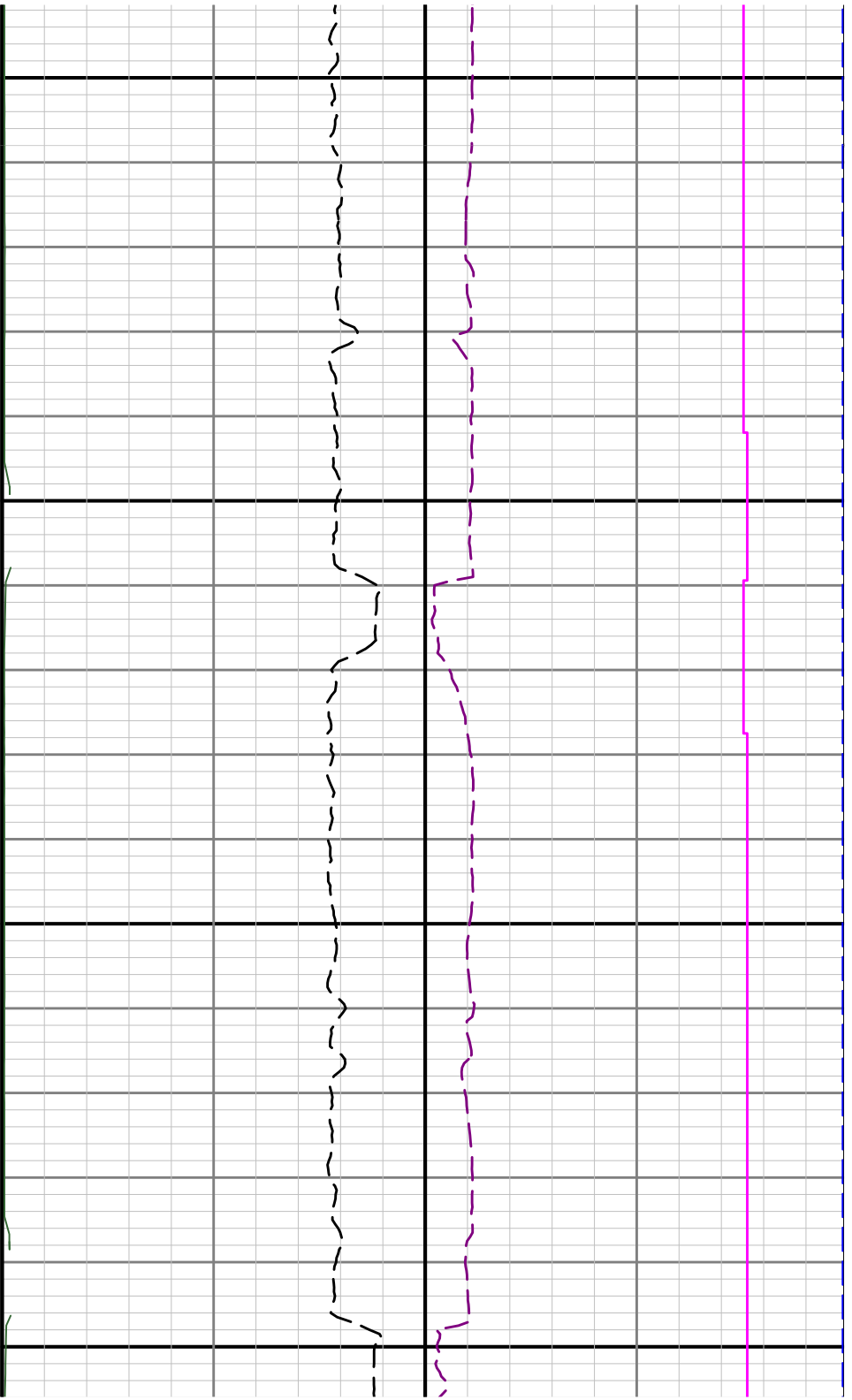


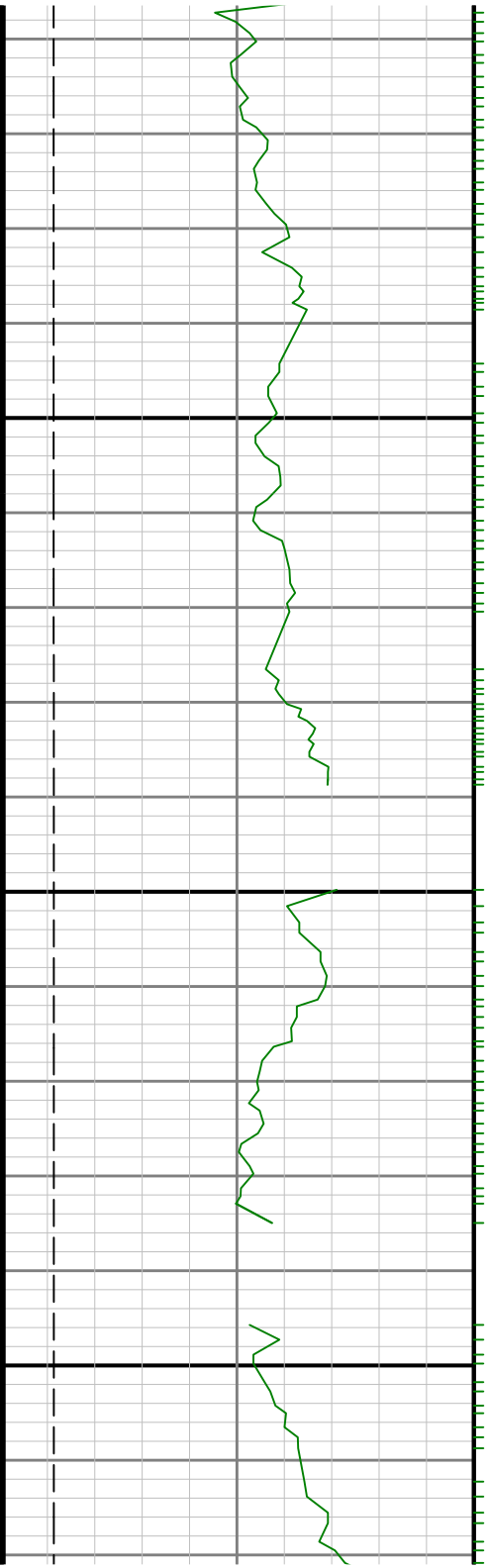


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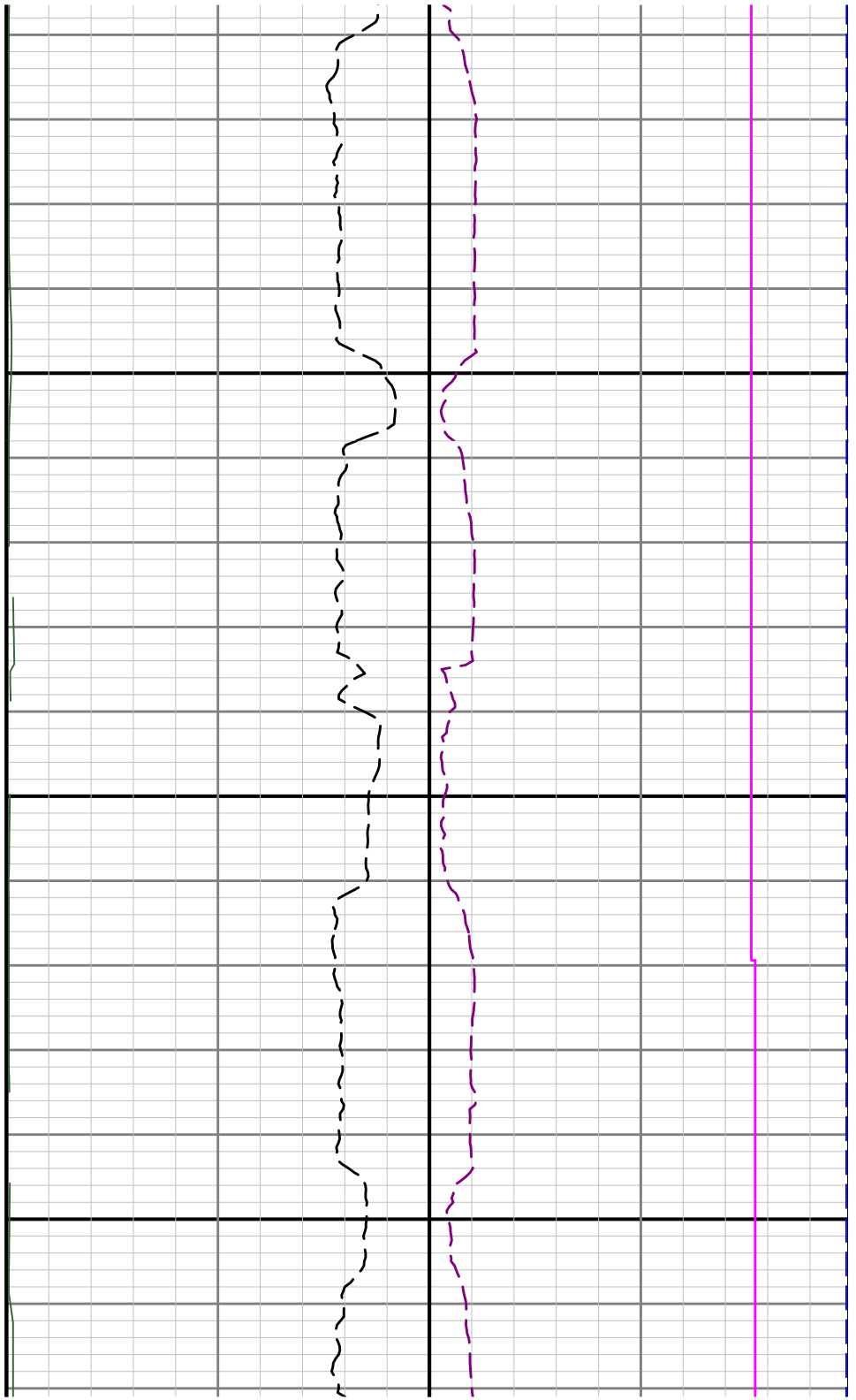


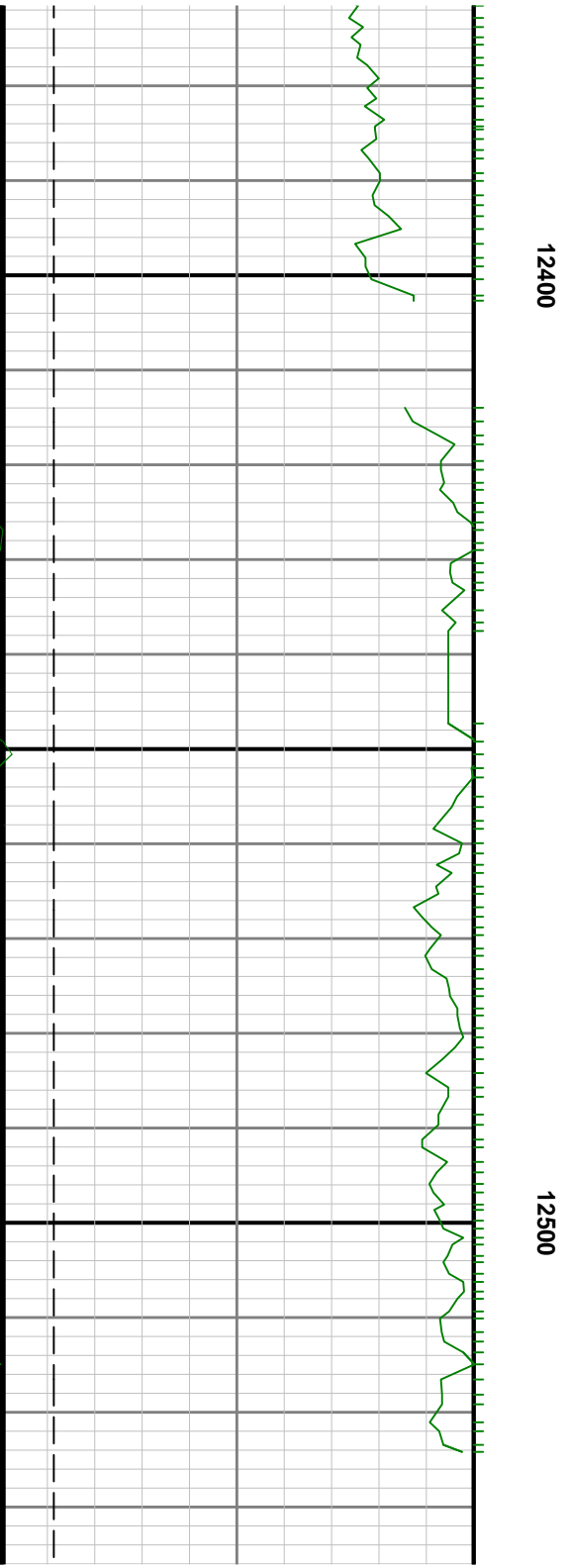


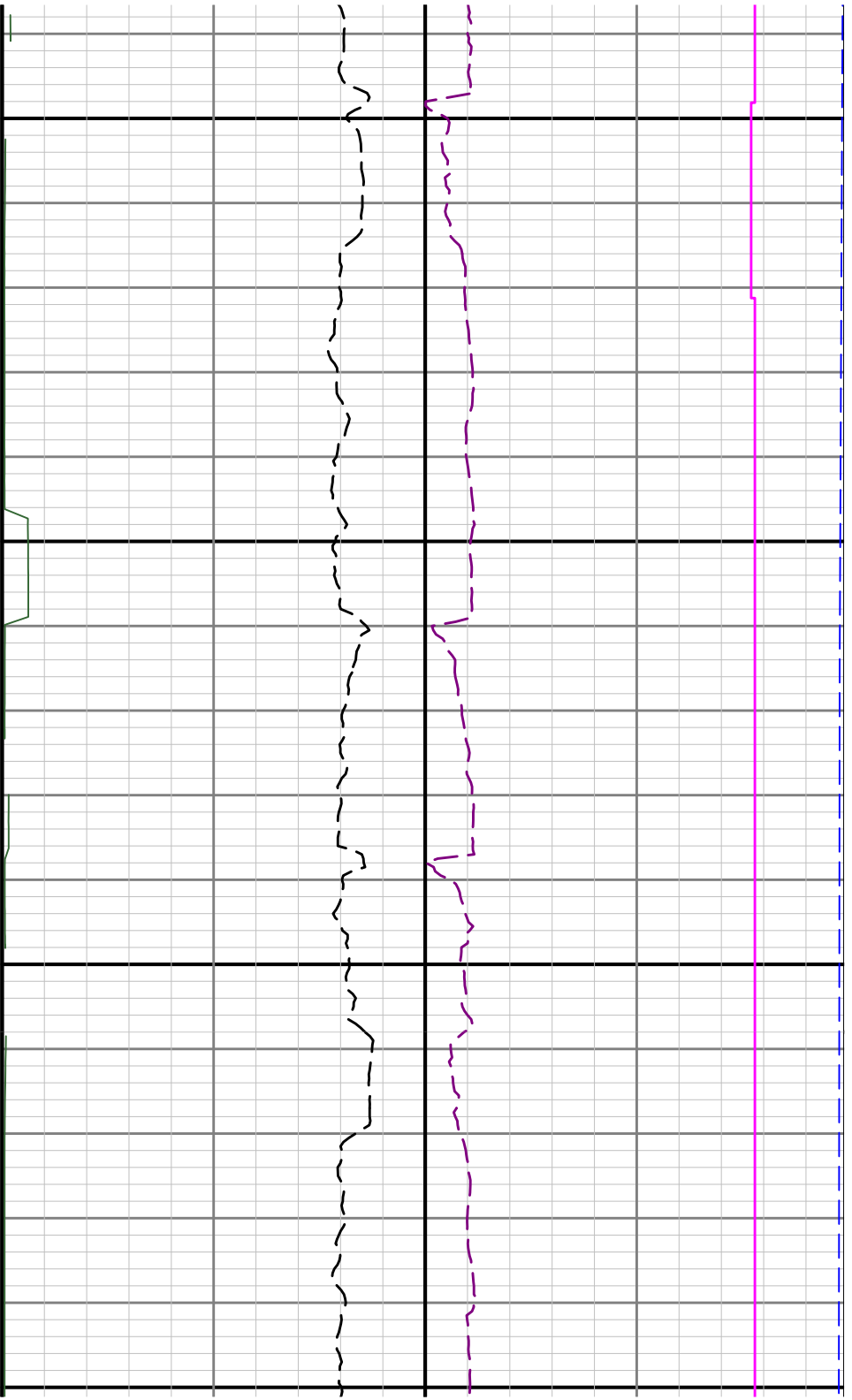




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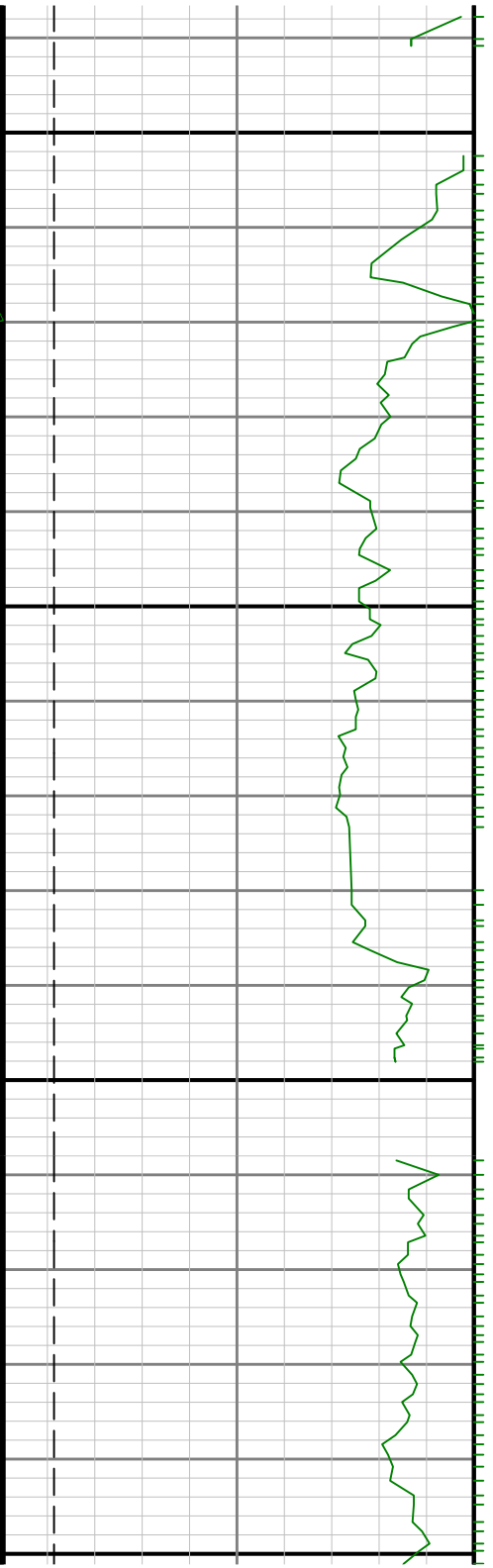


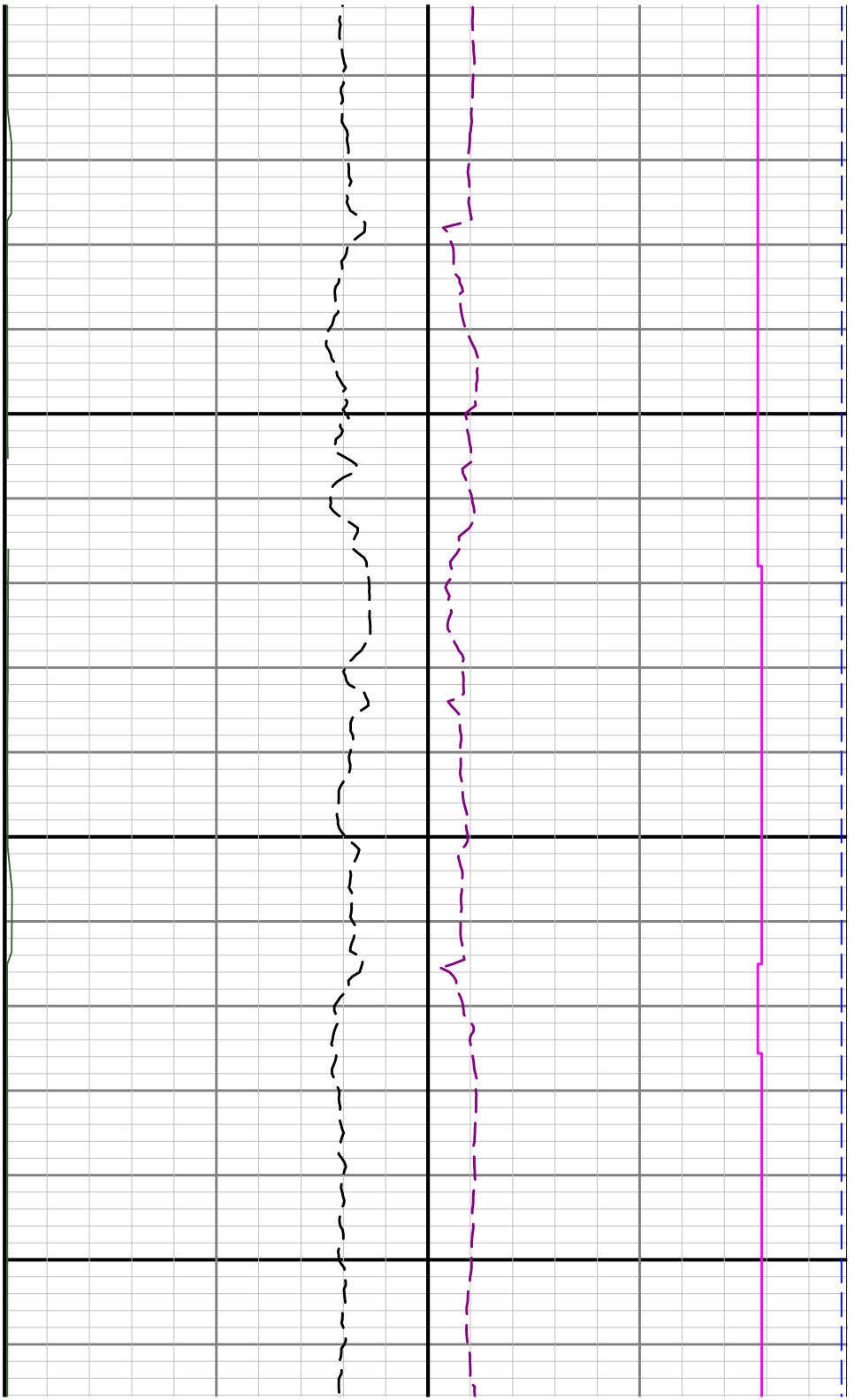




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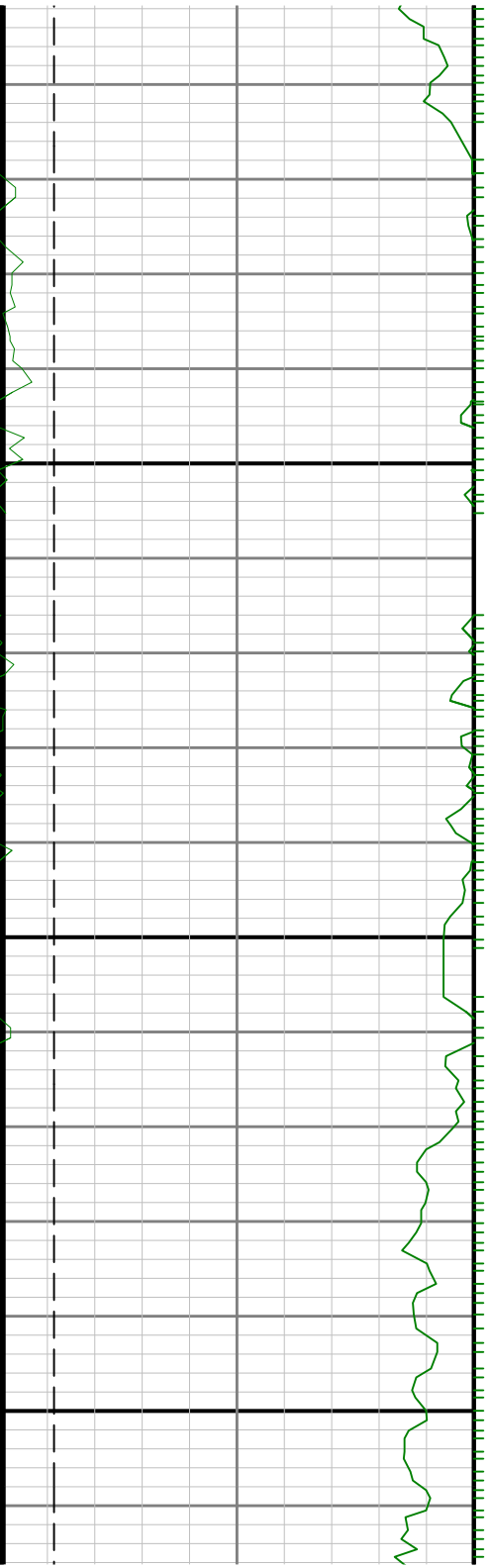
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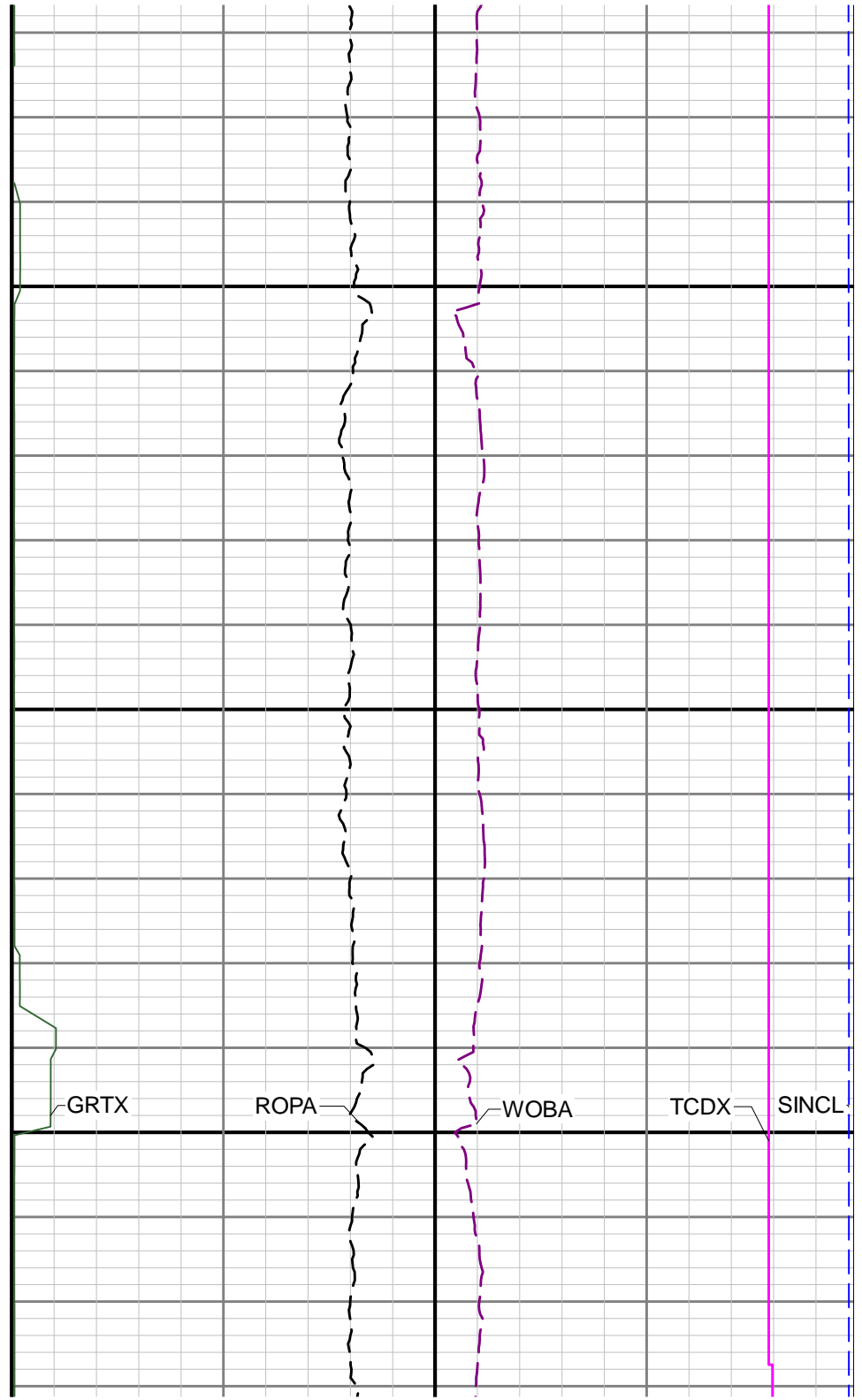
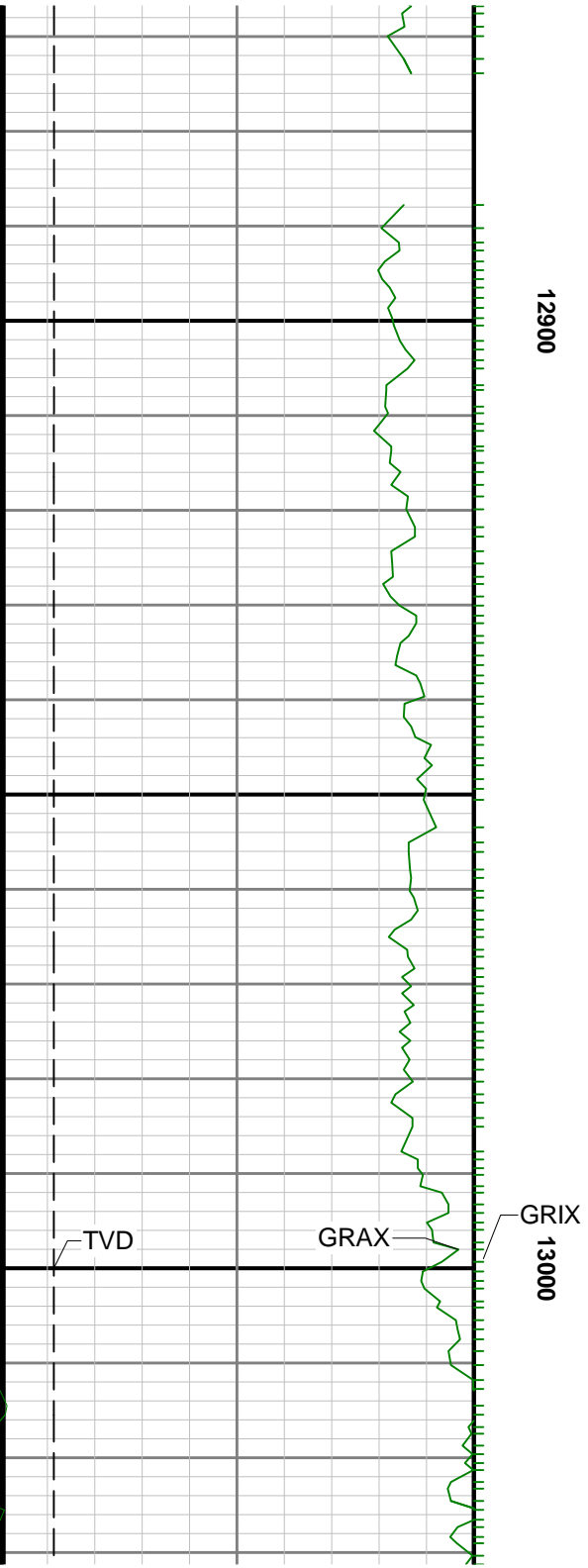


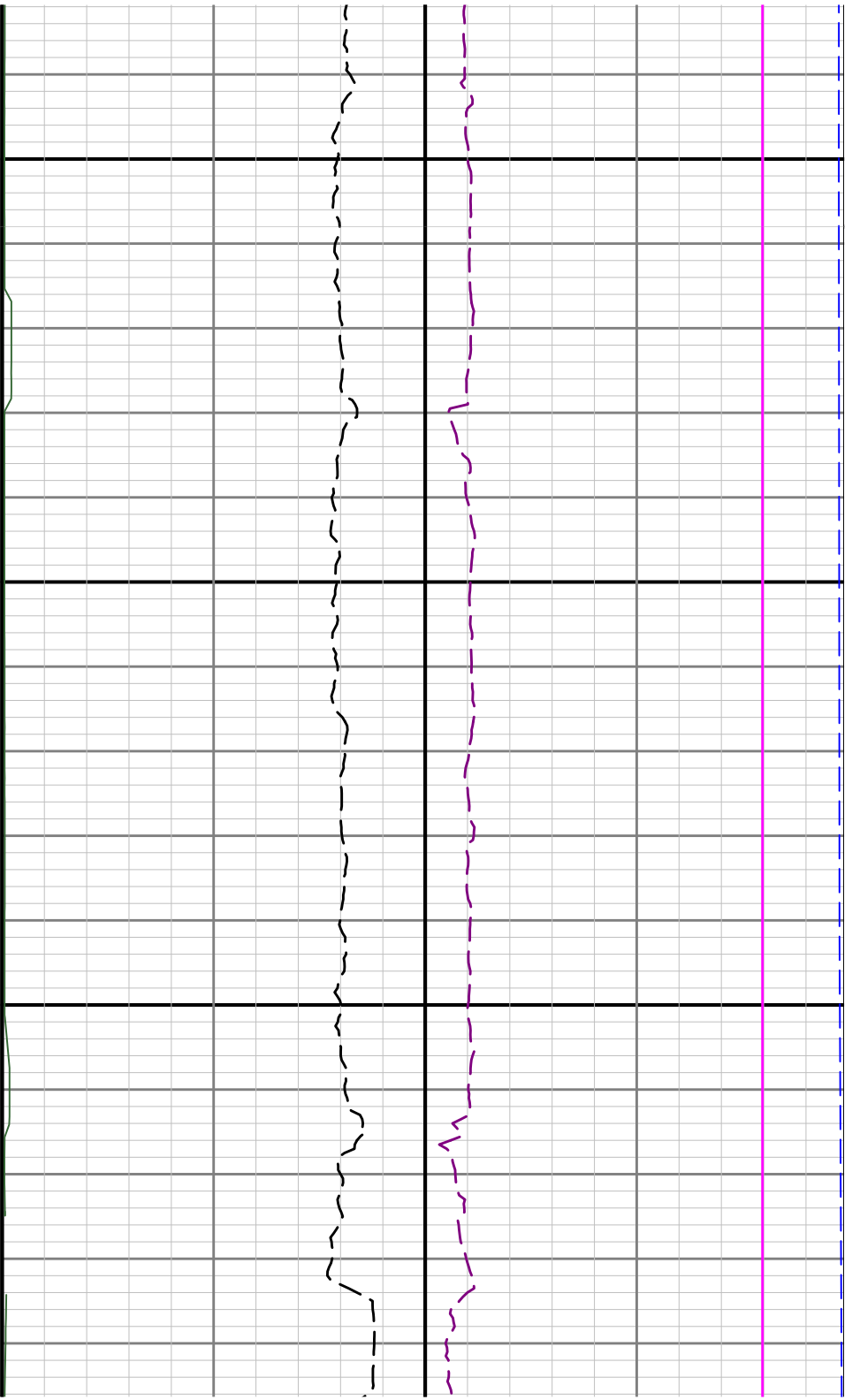


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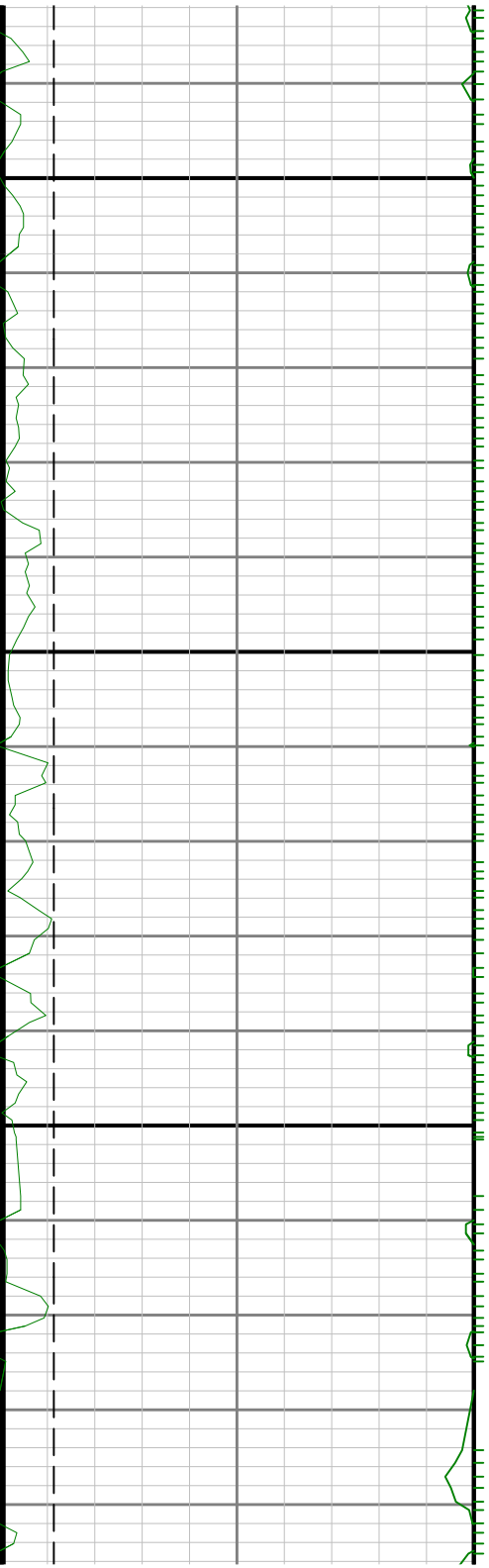
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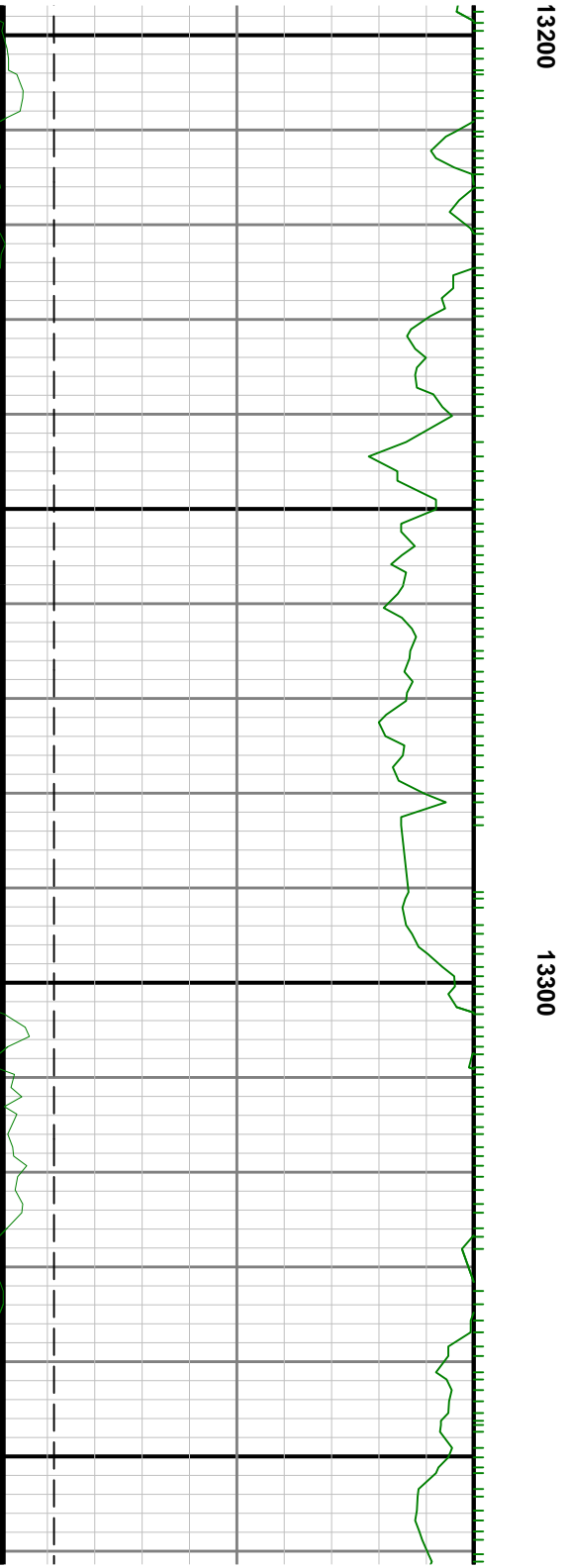
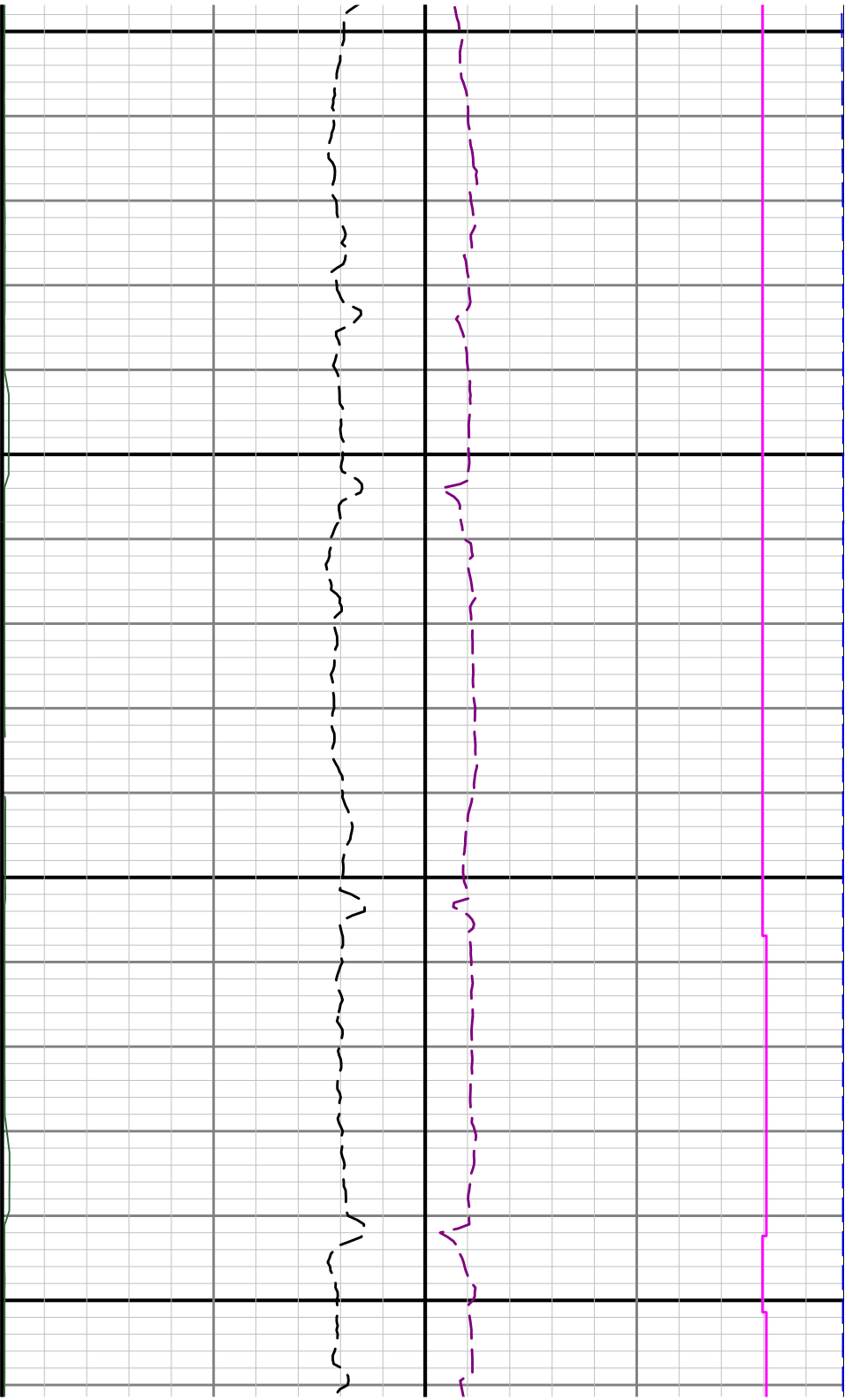


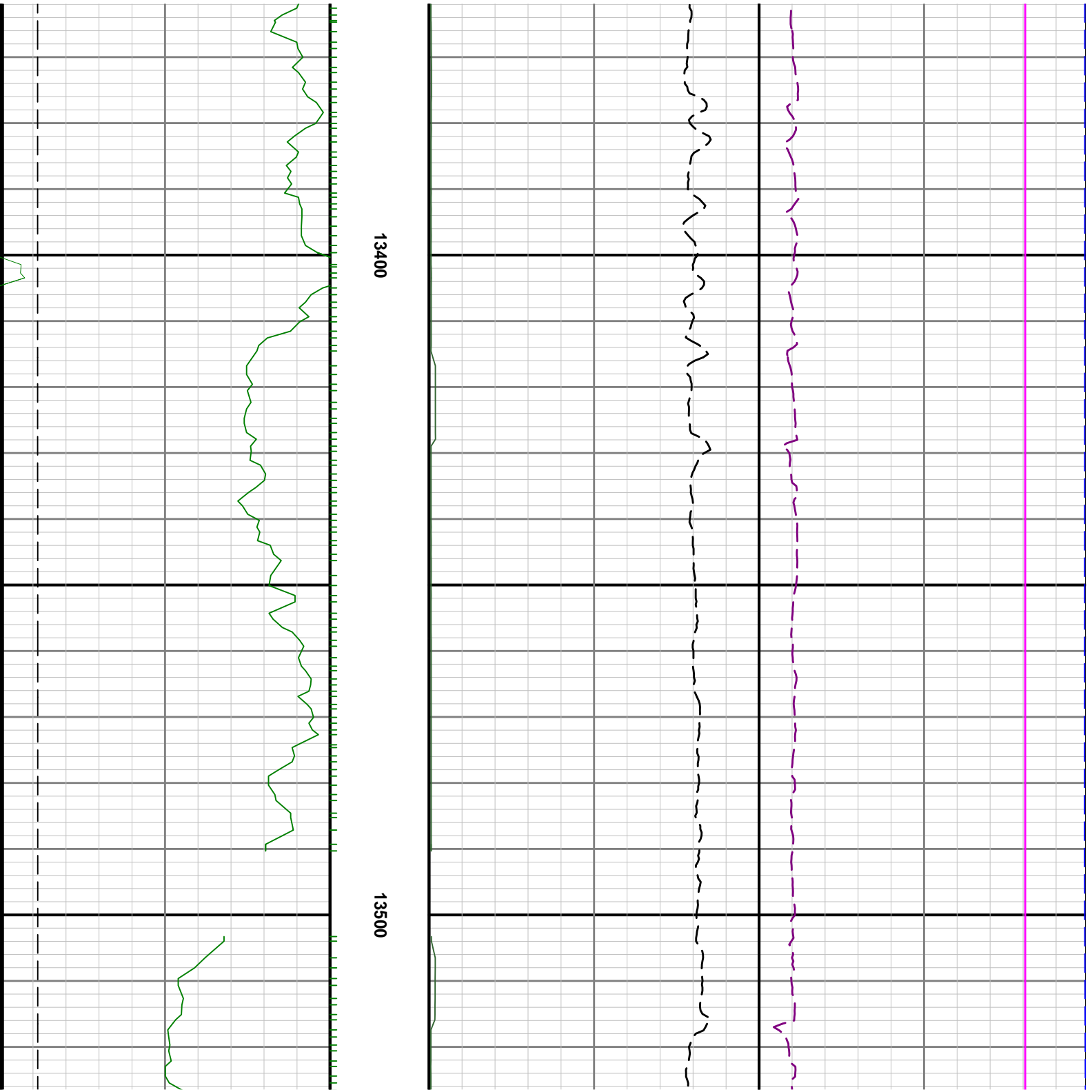


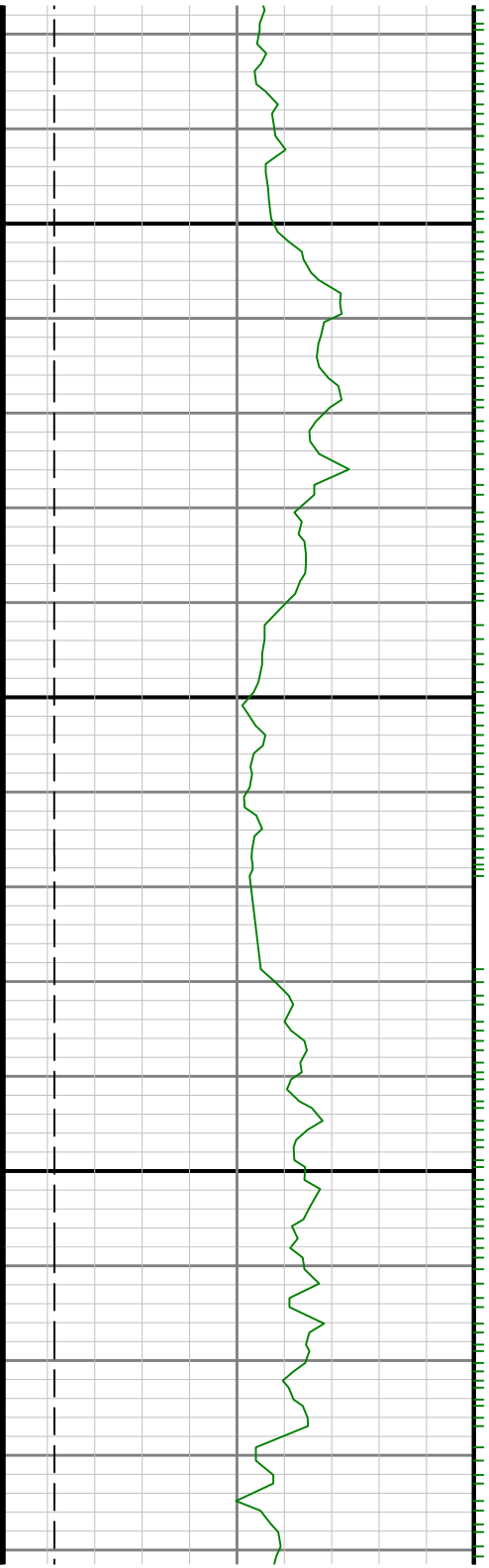


13100









13600



