

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 (h)
						Top	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	2	8.500	PDC	3.00	Motor	6559.24	13622.10	6619.14	13682.00	2015-07-24 16:19	2015-07-26 11:20	50.99

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Andrew Clancy	2015-07-23	2015-07-27	Jason Williams	2015-07-23	2015-07-27			

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+ (%)
2015-07-25 18:00	1	11374.02	Diesel-Oil Based Mud	9.6	49	N/A	0.0	70.5/29.5	Active	62000	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	NaviGamma	11912335	Gamma (single)	7.55	59.90	6.760	3.250
1	NaviGamma	11912335	Directional (mag)	10.89	63.24	6.760	3.250
1	NaviGamma	11912335	VSS	10.89	63.24	6.760	3.250


Comments

- 1 Depth measurements were 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 and the unverified depths as supplied to Baker Hughes are being used to represent logging data.
- 2 Baker Hughes Run 1 utilized a 6 3/4 inch Navigamma (Directional and Gamma Ray) tool behind an 8 1/2 inch bit and steerable assembly from 1876 to 13682 feet MD (1841.42 to 7228.58 feet TVD).
- 3 A sliding indicator is shown on the left side of the track as a heavy line. This indicator has been depth-shifted to the Gamma Ray sensor offset to correspond with Gamma Ray data acquired while sliding.

Remarks

Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
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1	6620.00	8.500	1	Logging services began at 6620 feet. No logging data prior to 6620 feet MD (6484.39 TVD) as per client request.
2	13682.00	8.500	1	The interval between 13622 to 13682 feet MD (7231.77 to 7228.58 feet TVD) has no GRAX, GRIX, GRTX due to Gamma sensor offset to bit after TD of well.



Company

Well

Interval

Created

Anadarko

MIRACLE 9C-11HZ

Date From: 2015-07-24 10:19

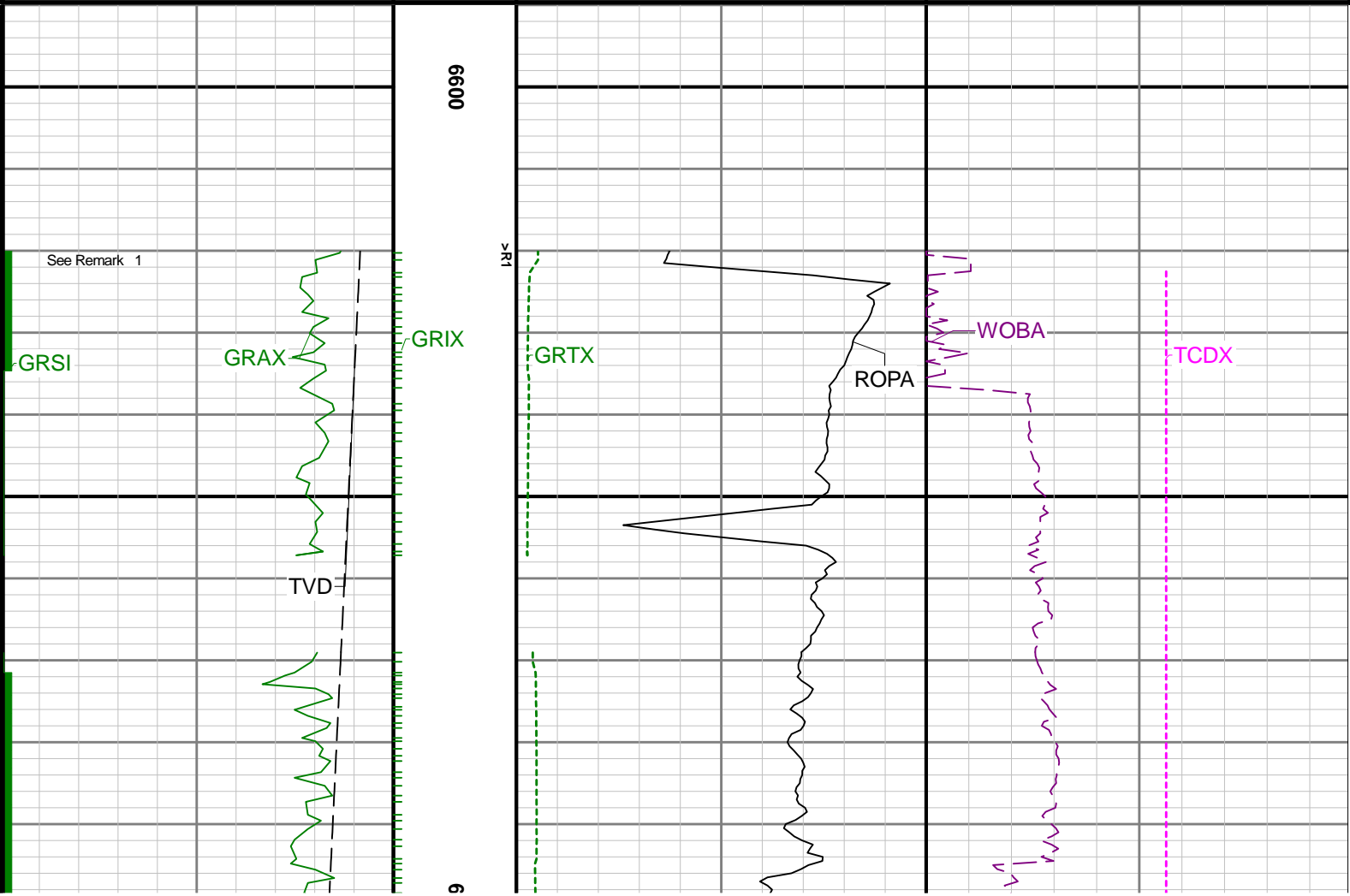
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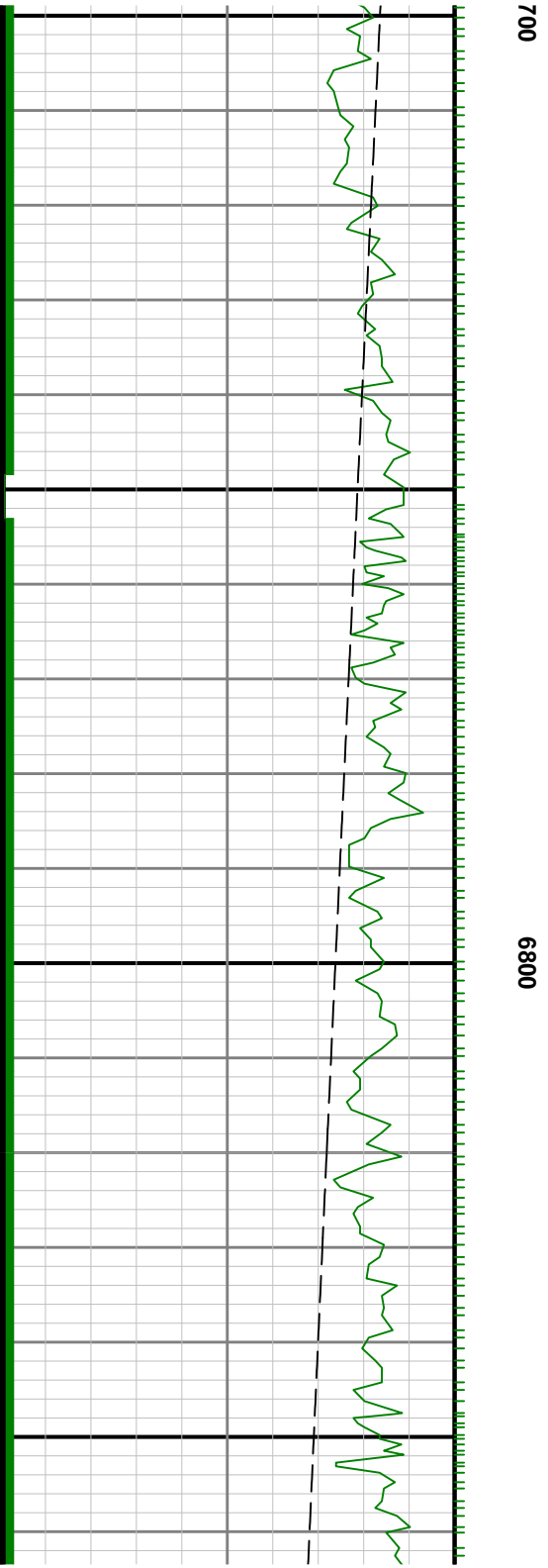
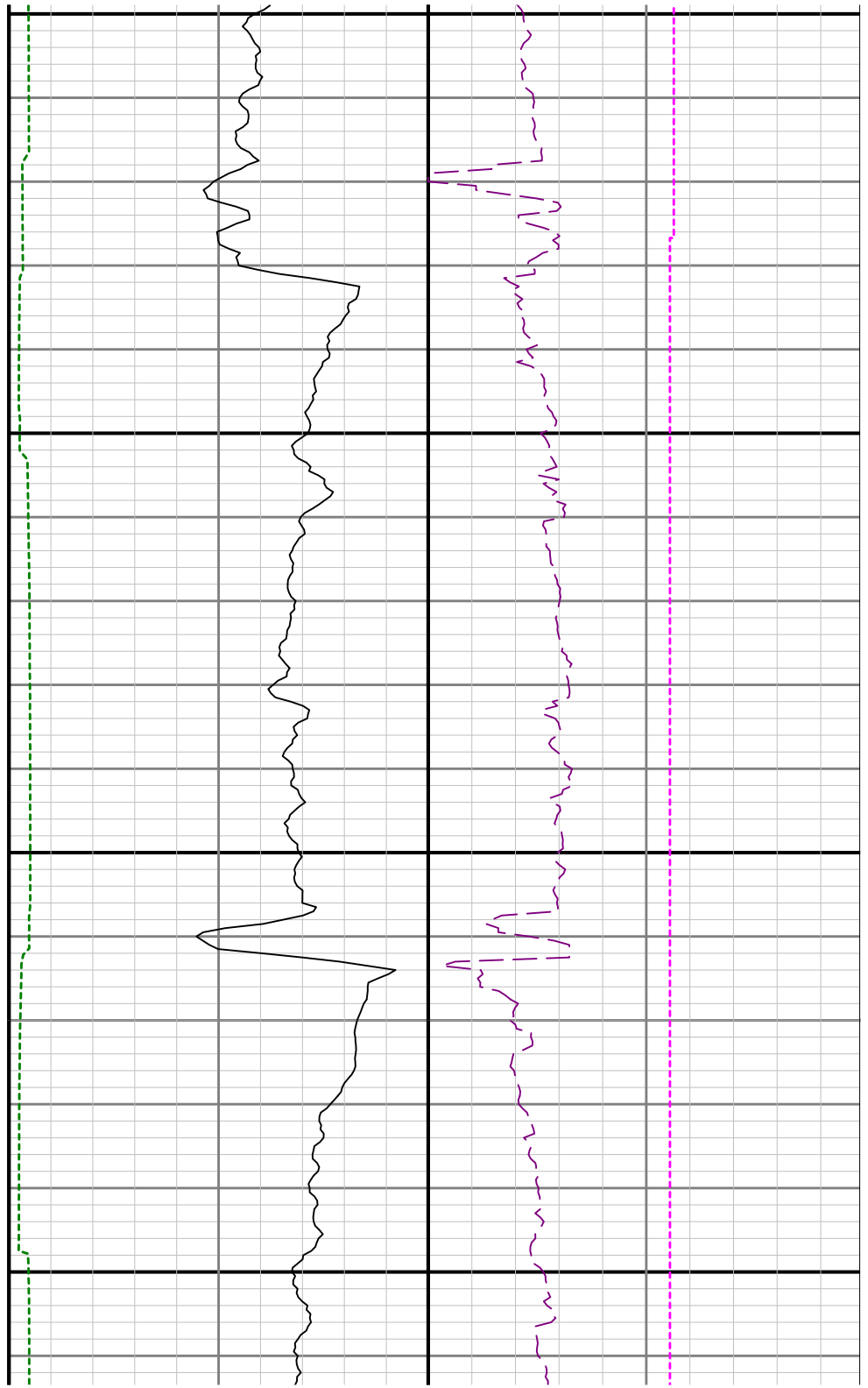
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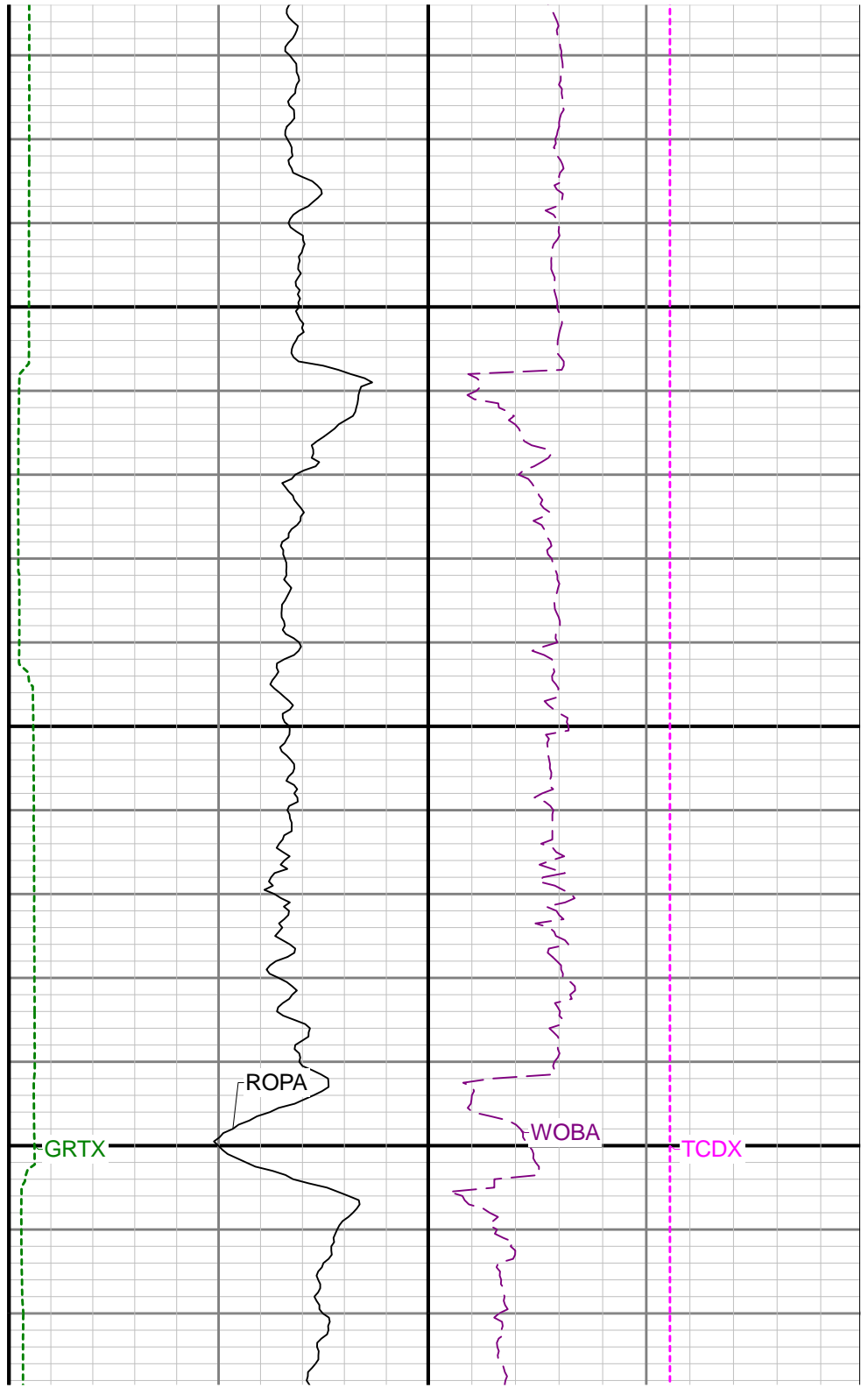
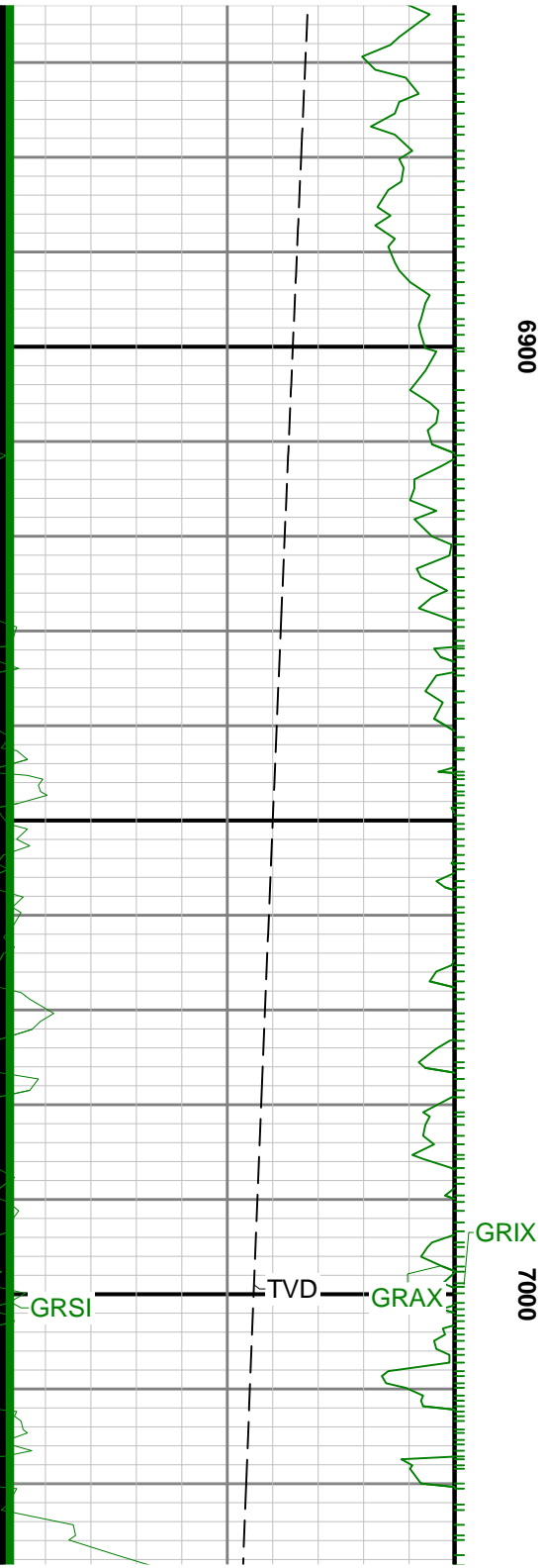
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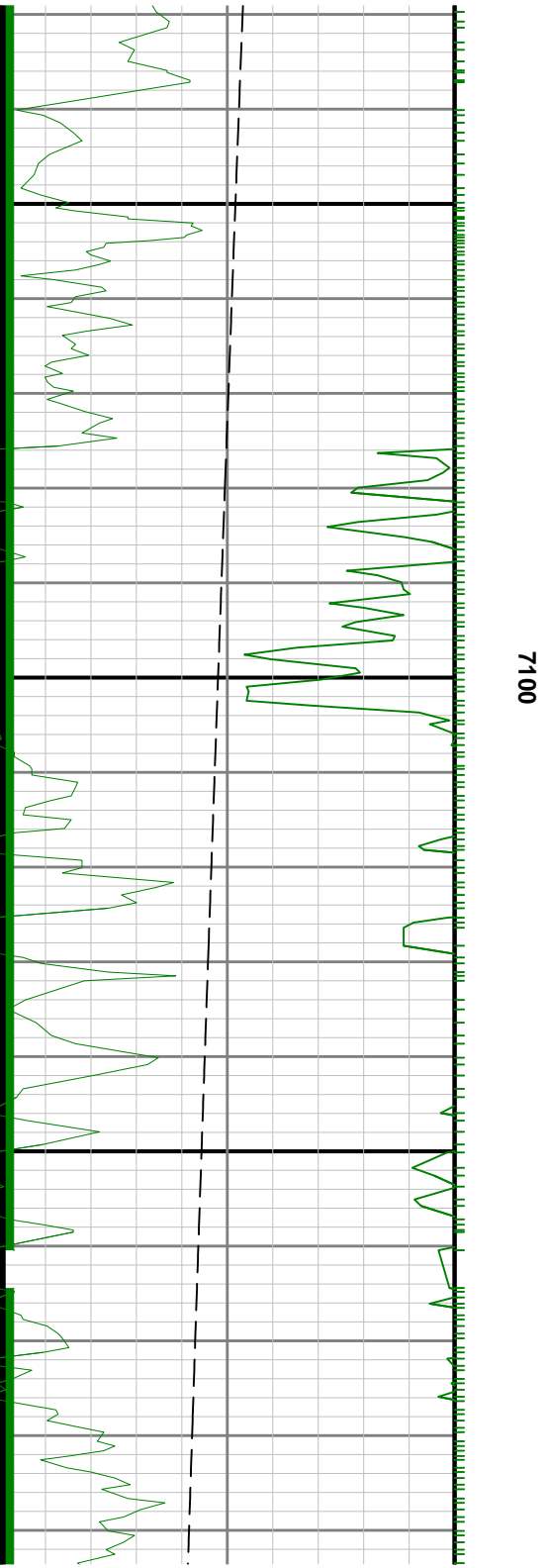
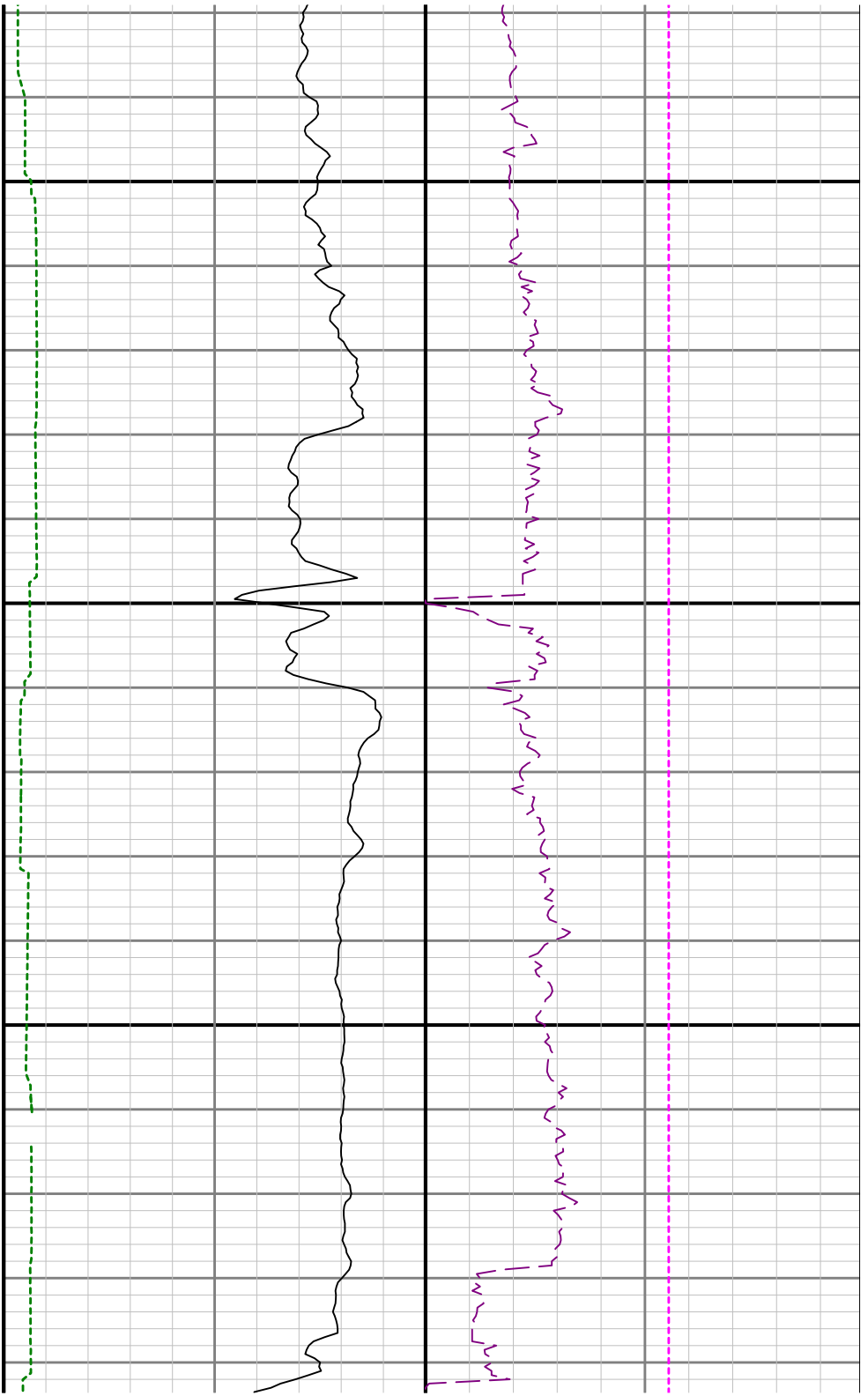
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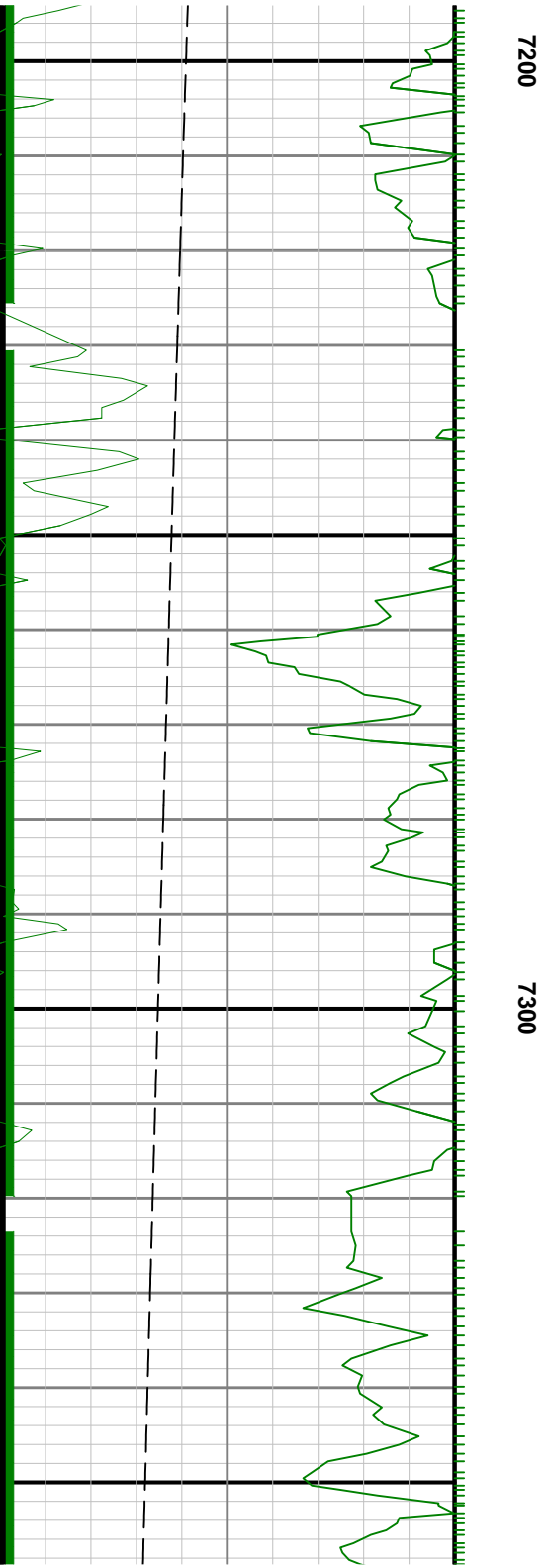
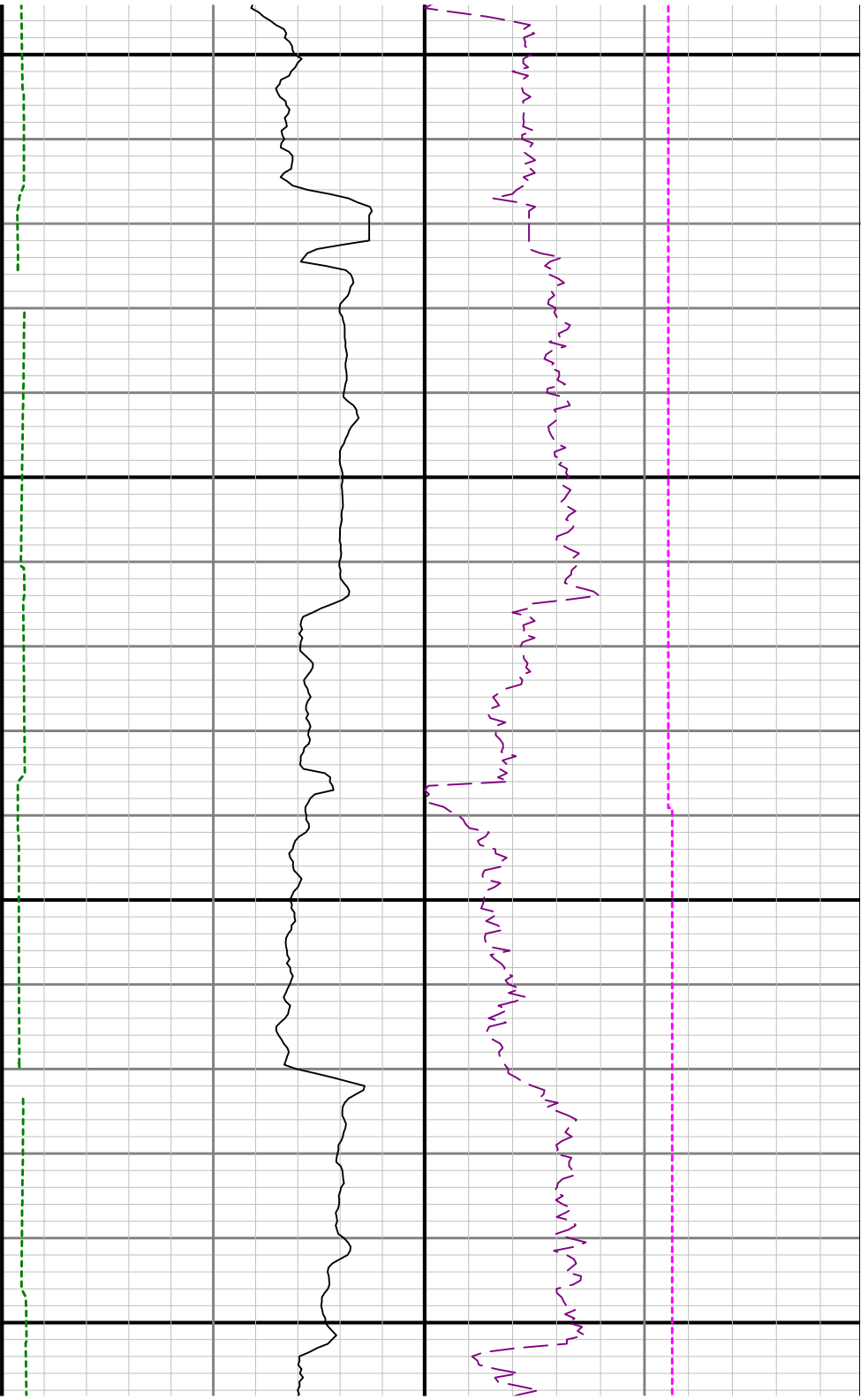
<div>Gamma Ray Apparent 0.5 ft Average GRAX</div> <div>0150</div>	<div>MID 1:240 feet</div>	<div>Rate of Penetration 3 ft Average ROPA</div> <div>8000</div>	<div>Surface Weight On Bit 1 ft Average WOBA</div> <div>0100</div>
<div>API</div> <div>True Vertical Depth TVD</div> <div>74006400</div> <div>ft</div>		<div>ft/h</div> <div>Gamma Ray Time Since Drilled GRTX</div> <div>0600</div> <div>min</div>	<div>klb</div> <div>Downhole Temperature TCDX</div> <div>0300</div> <div>degF</div>

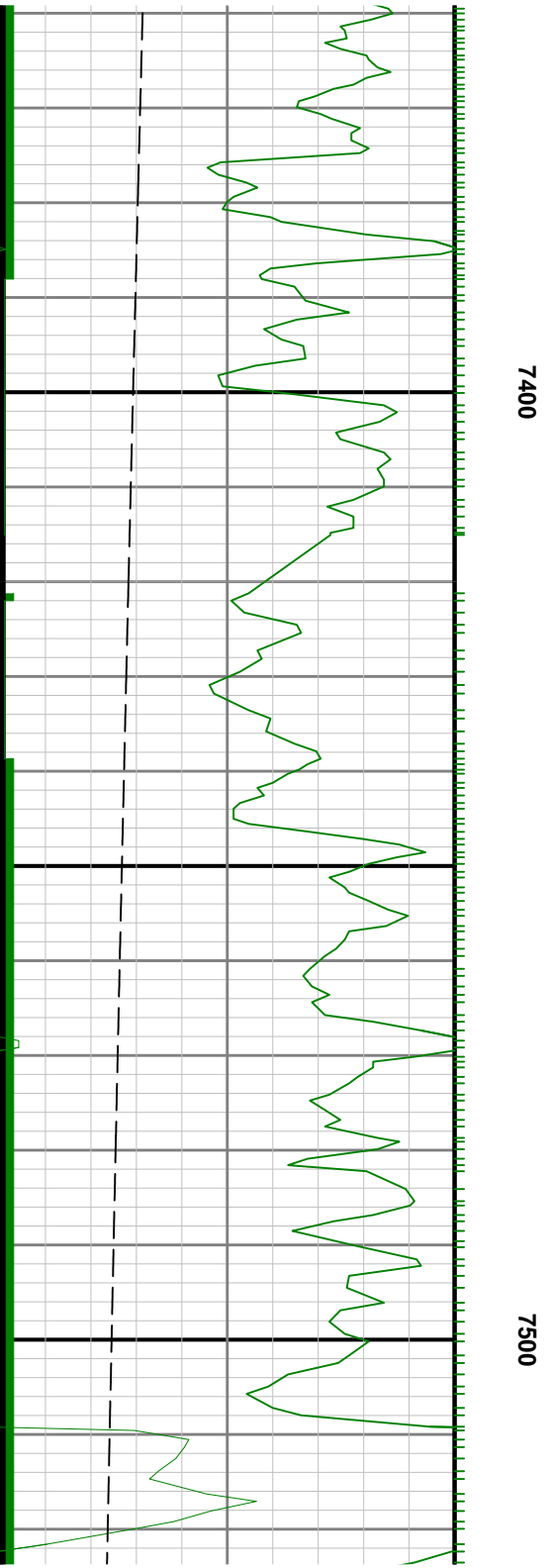
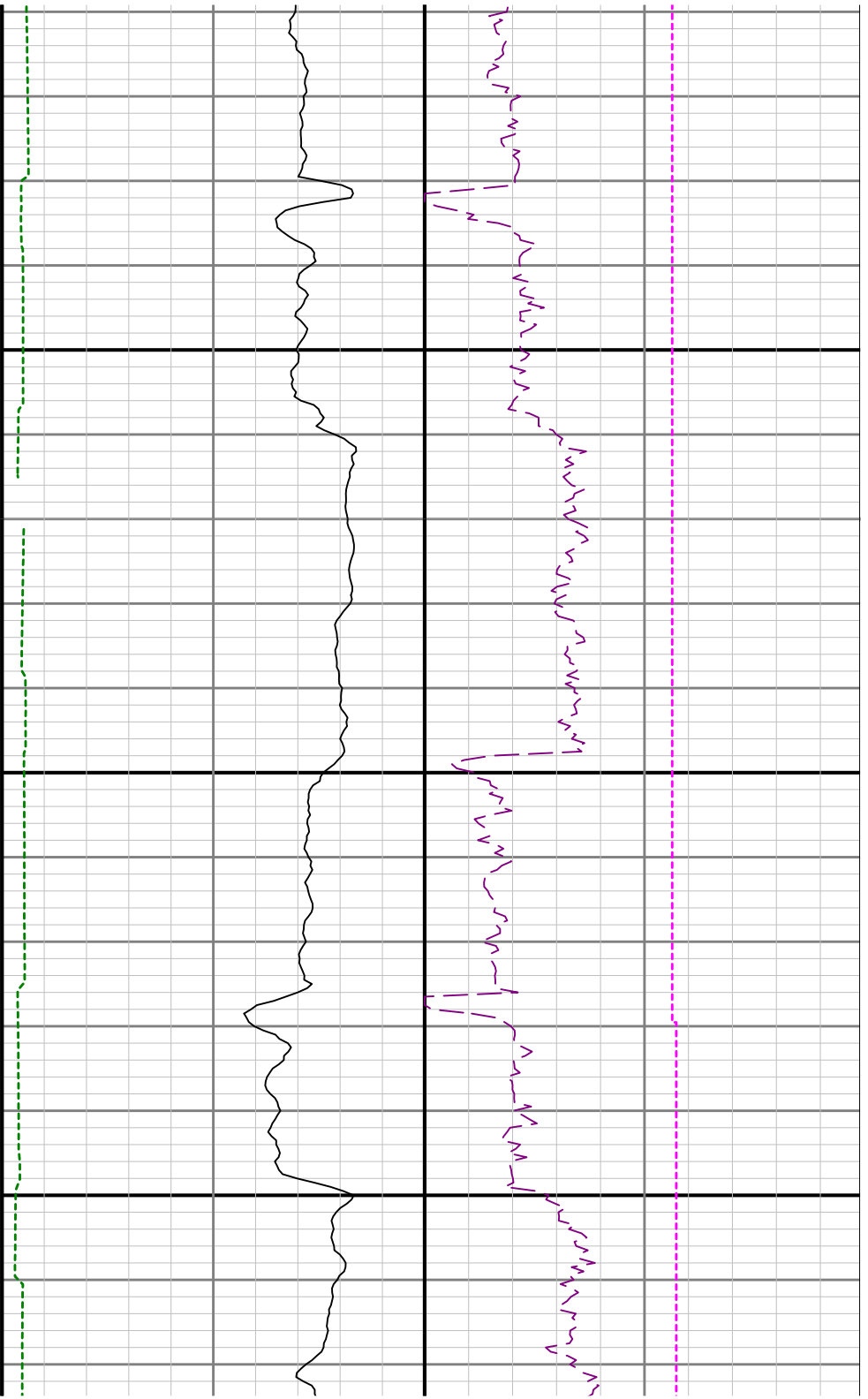


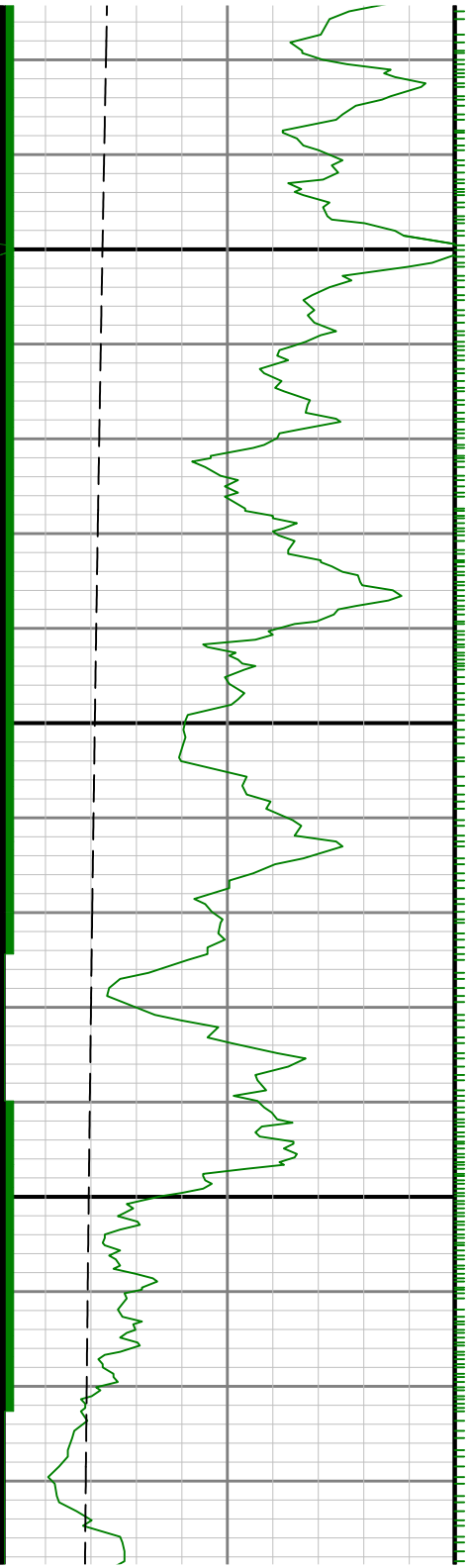




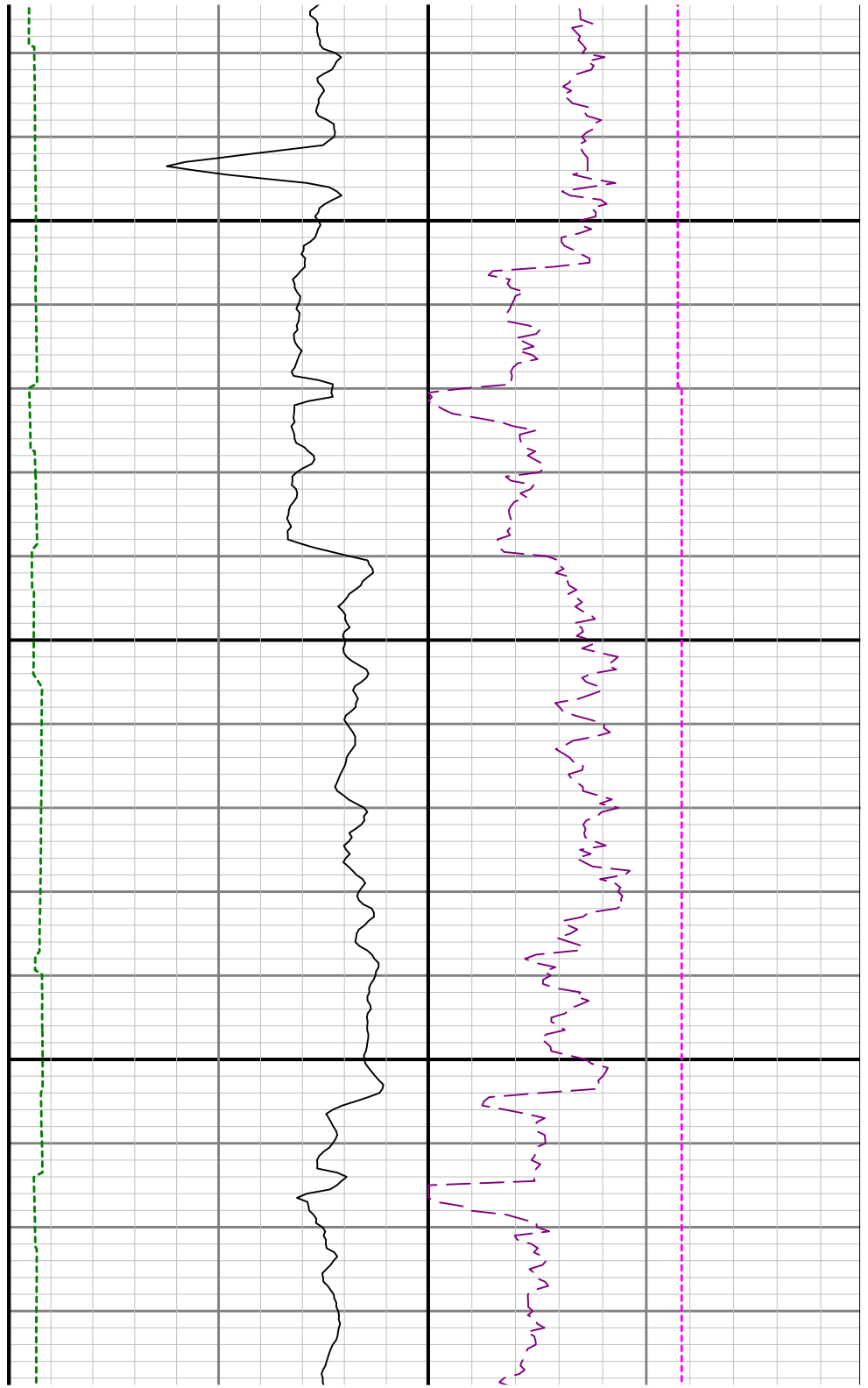


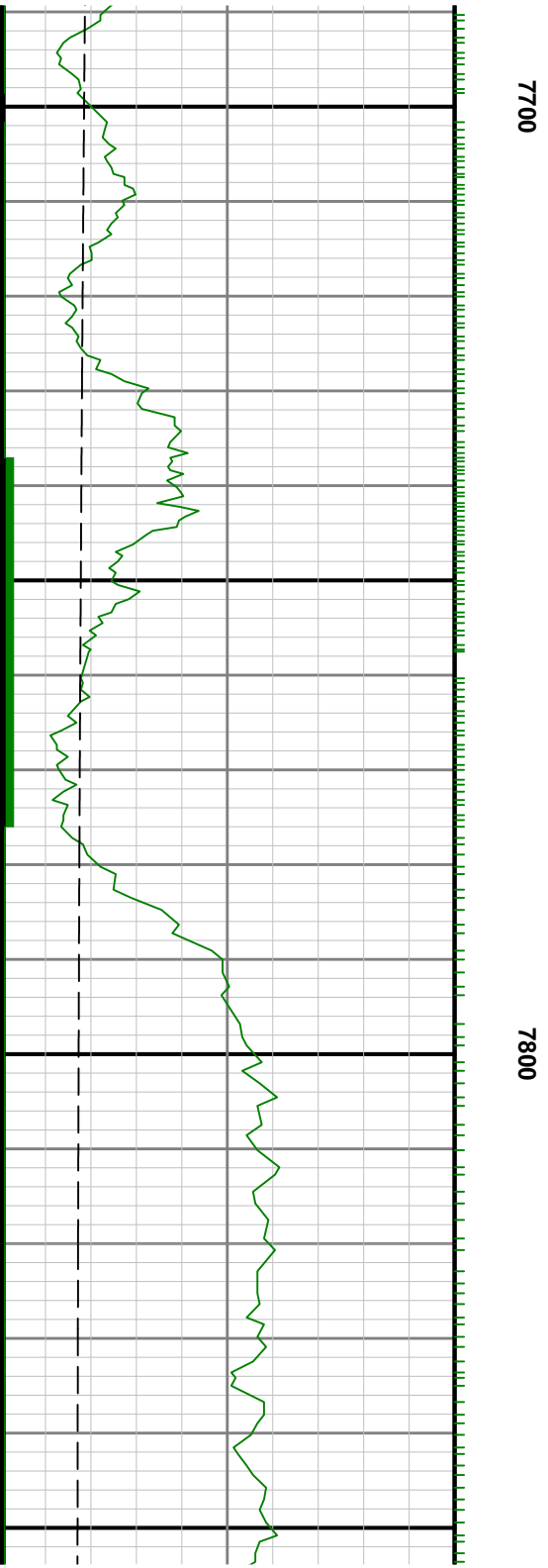
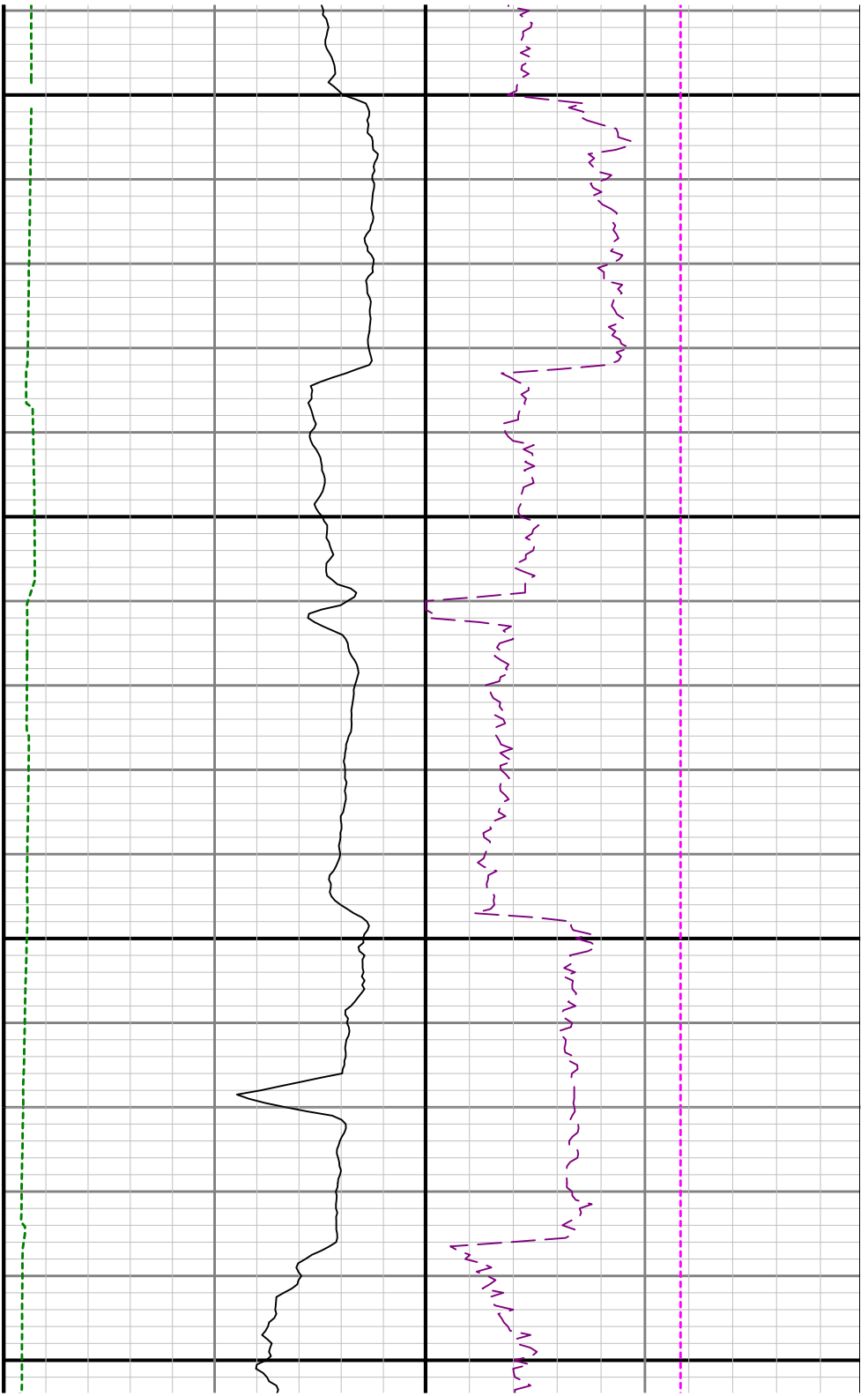


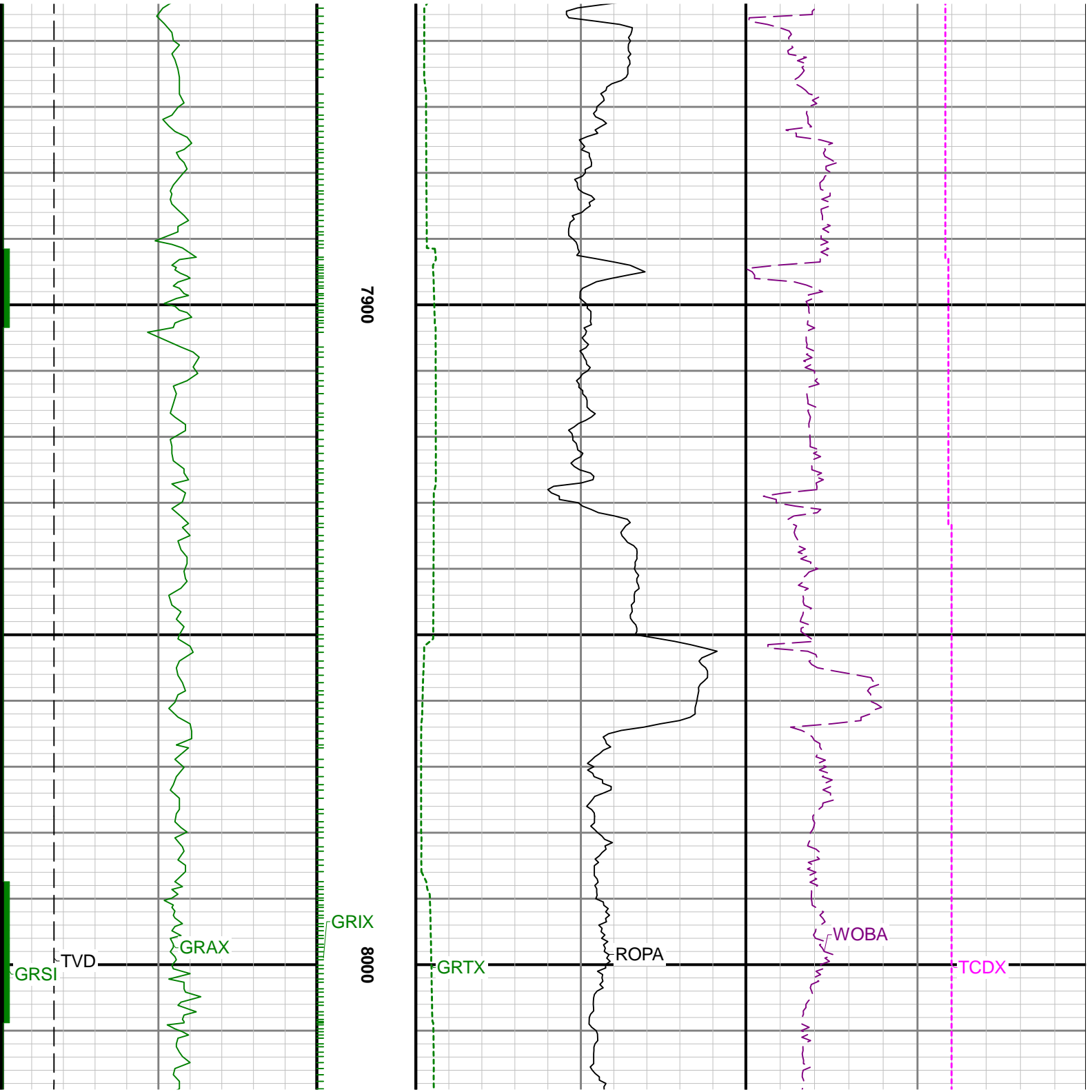


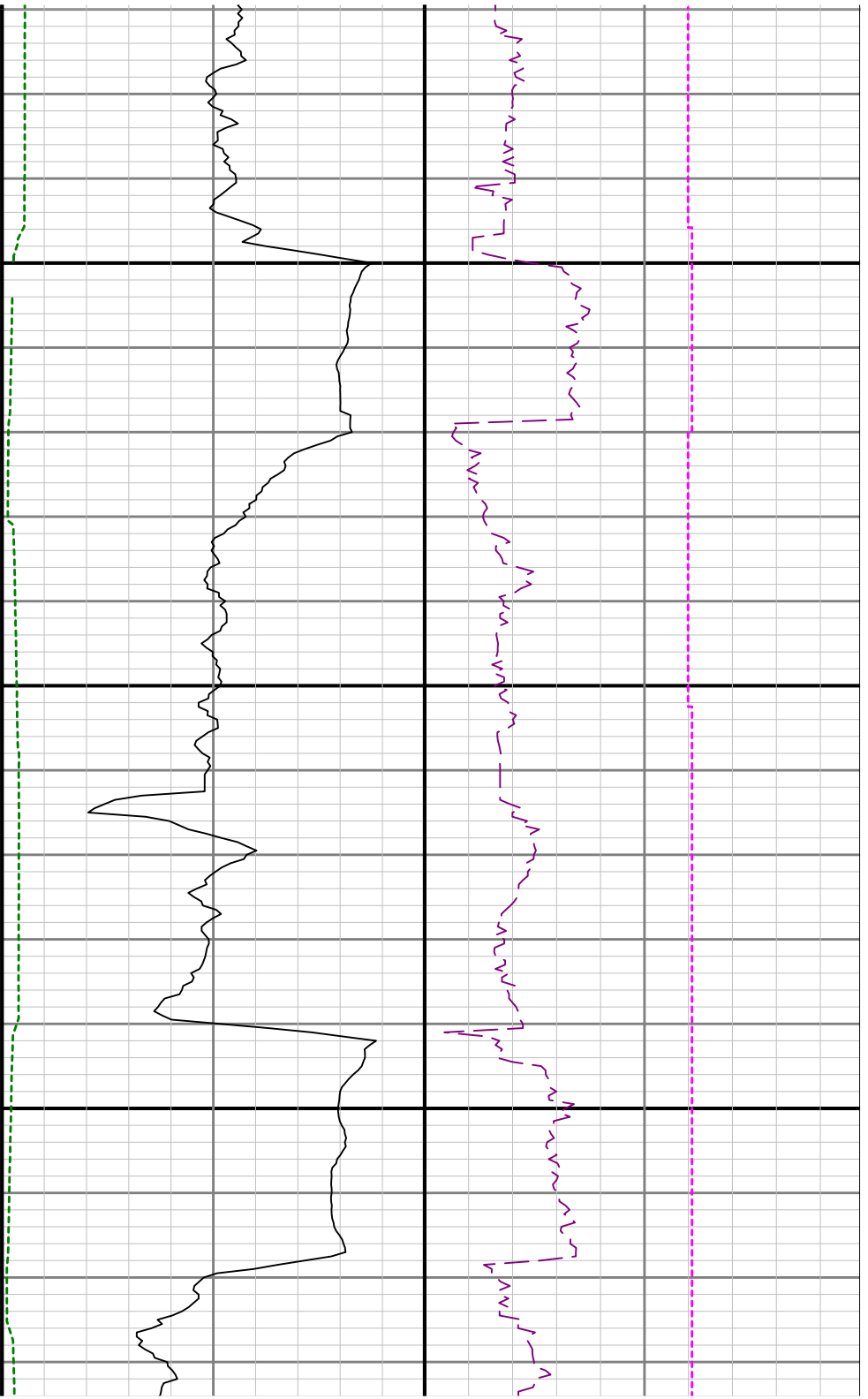


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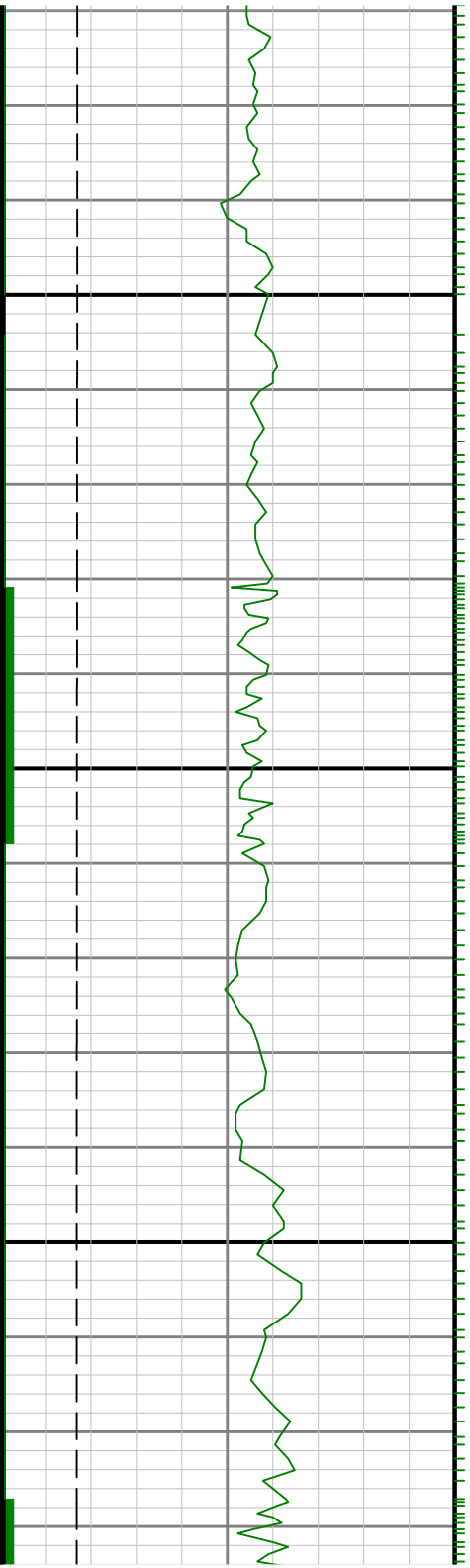


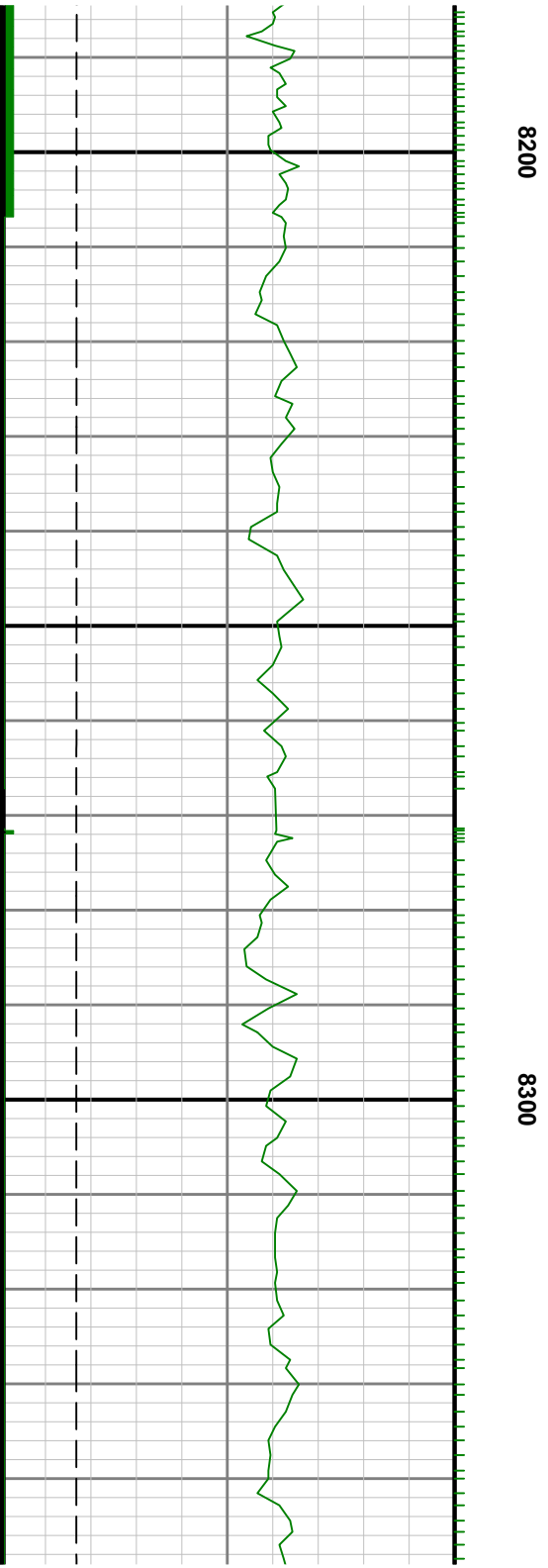


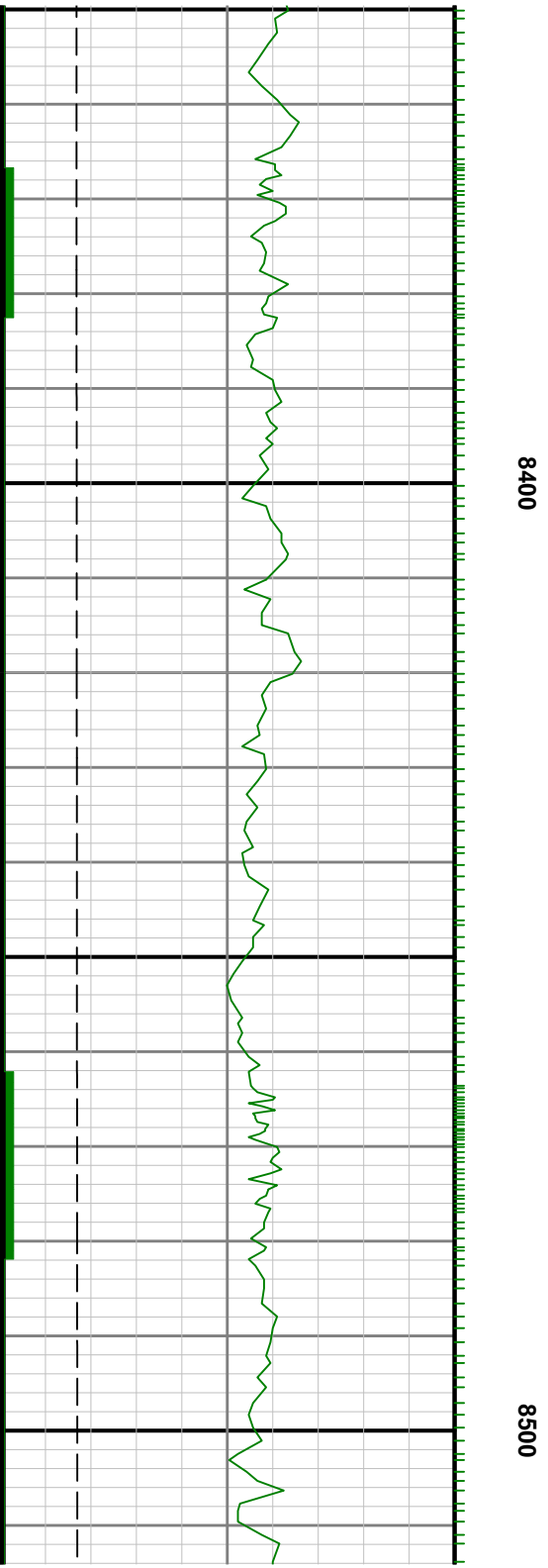


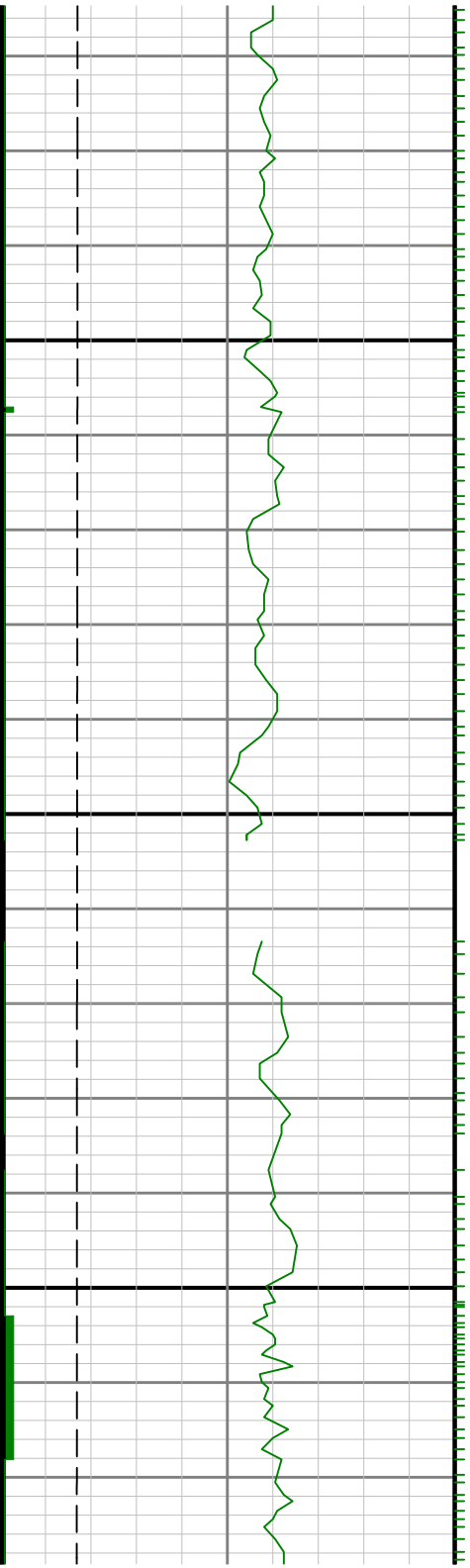


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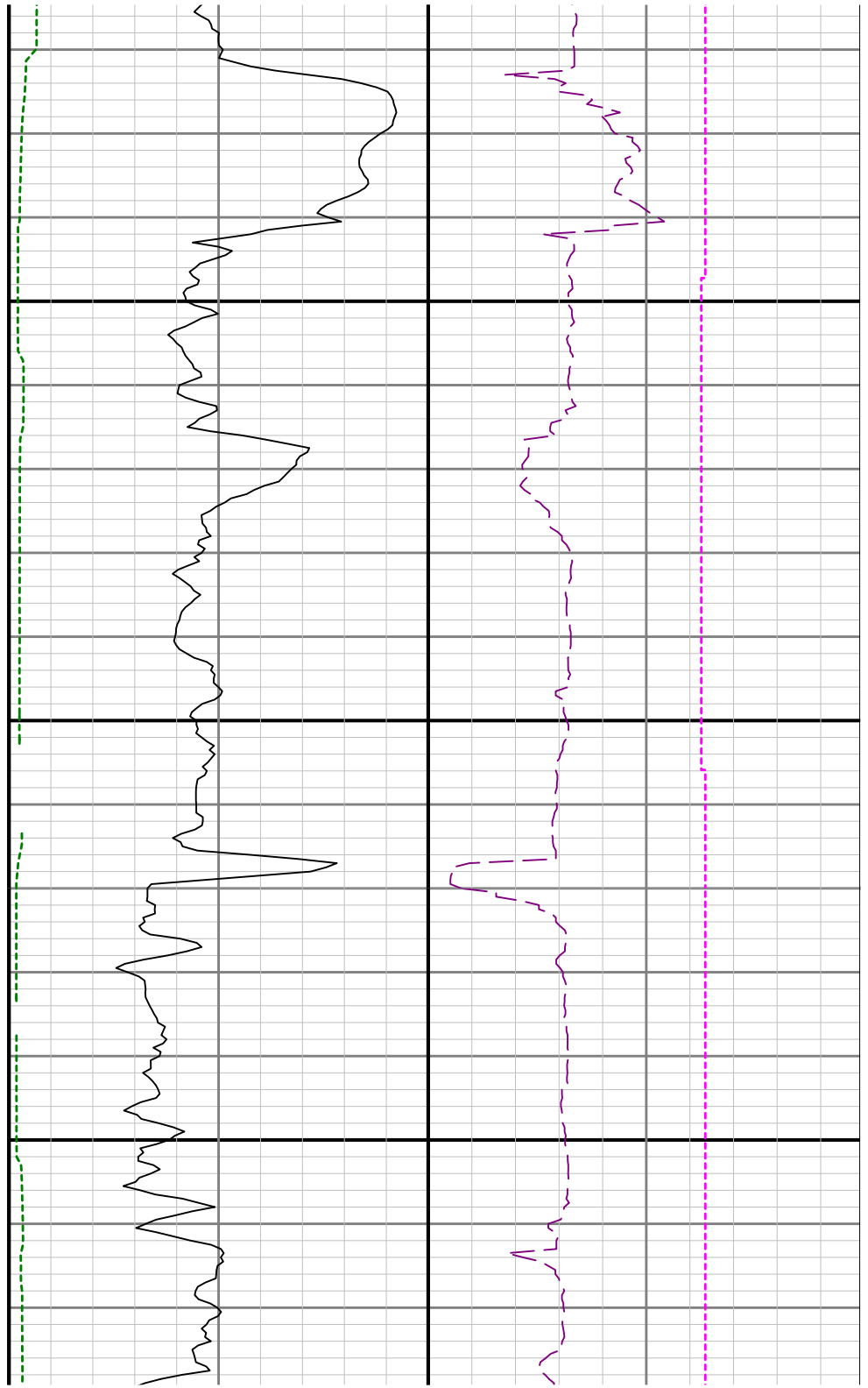


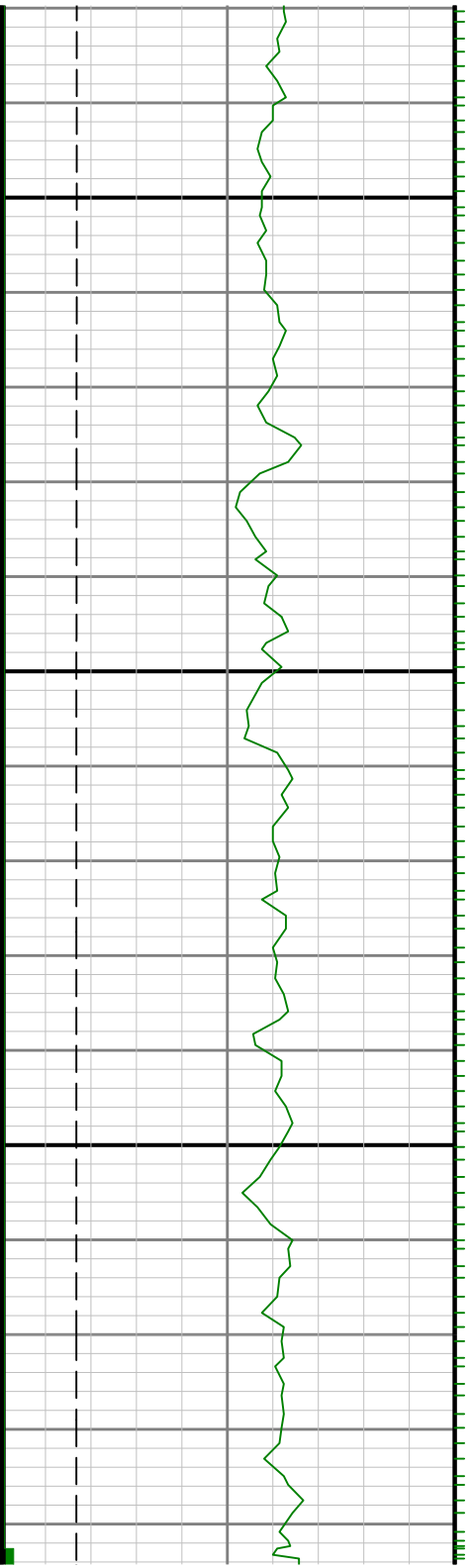






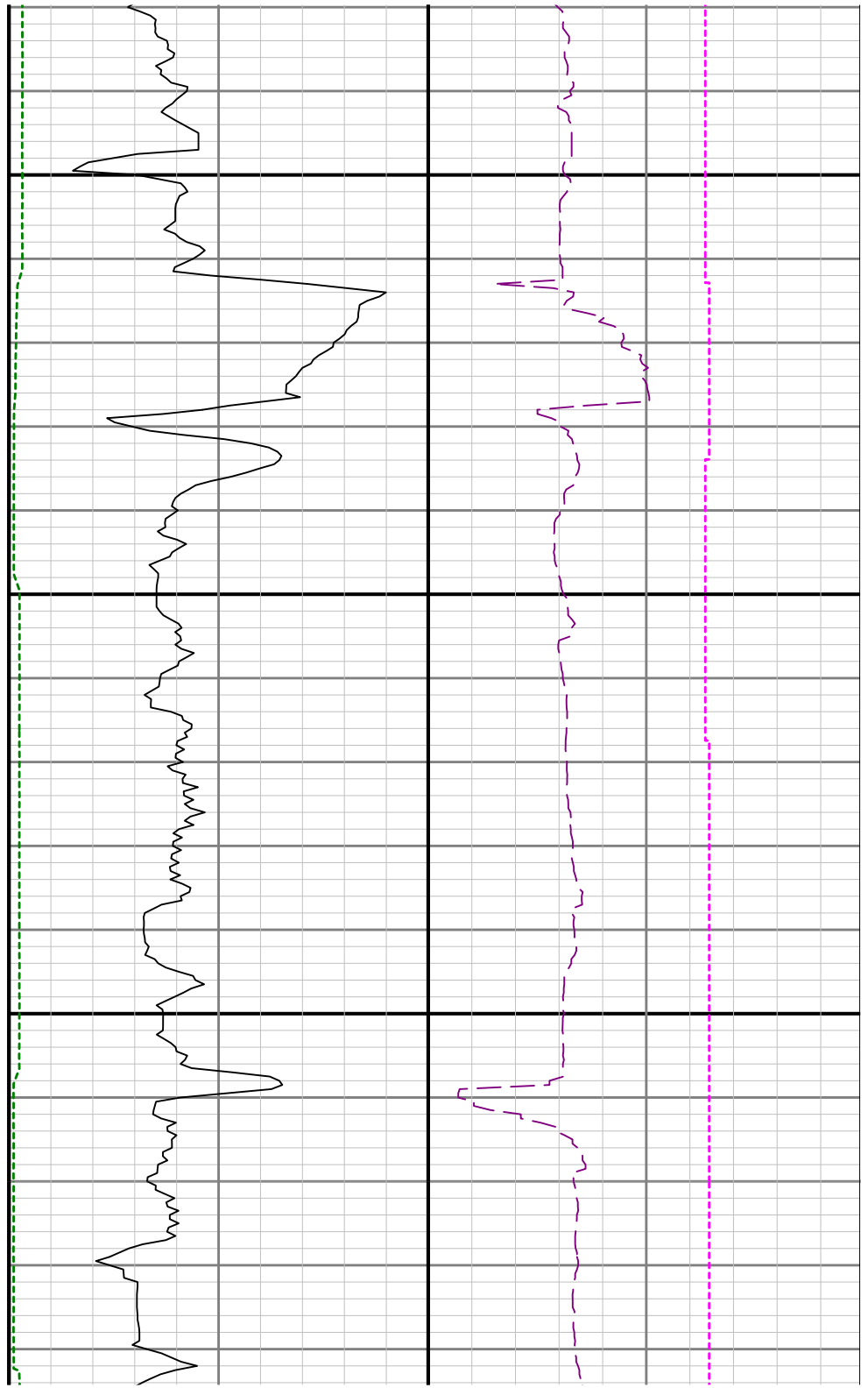
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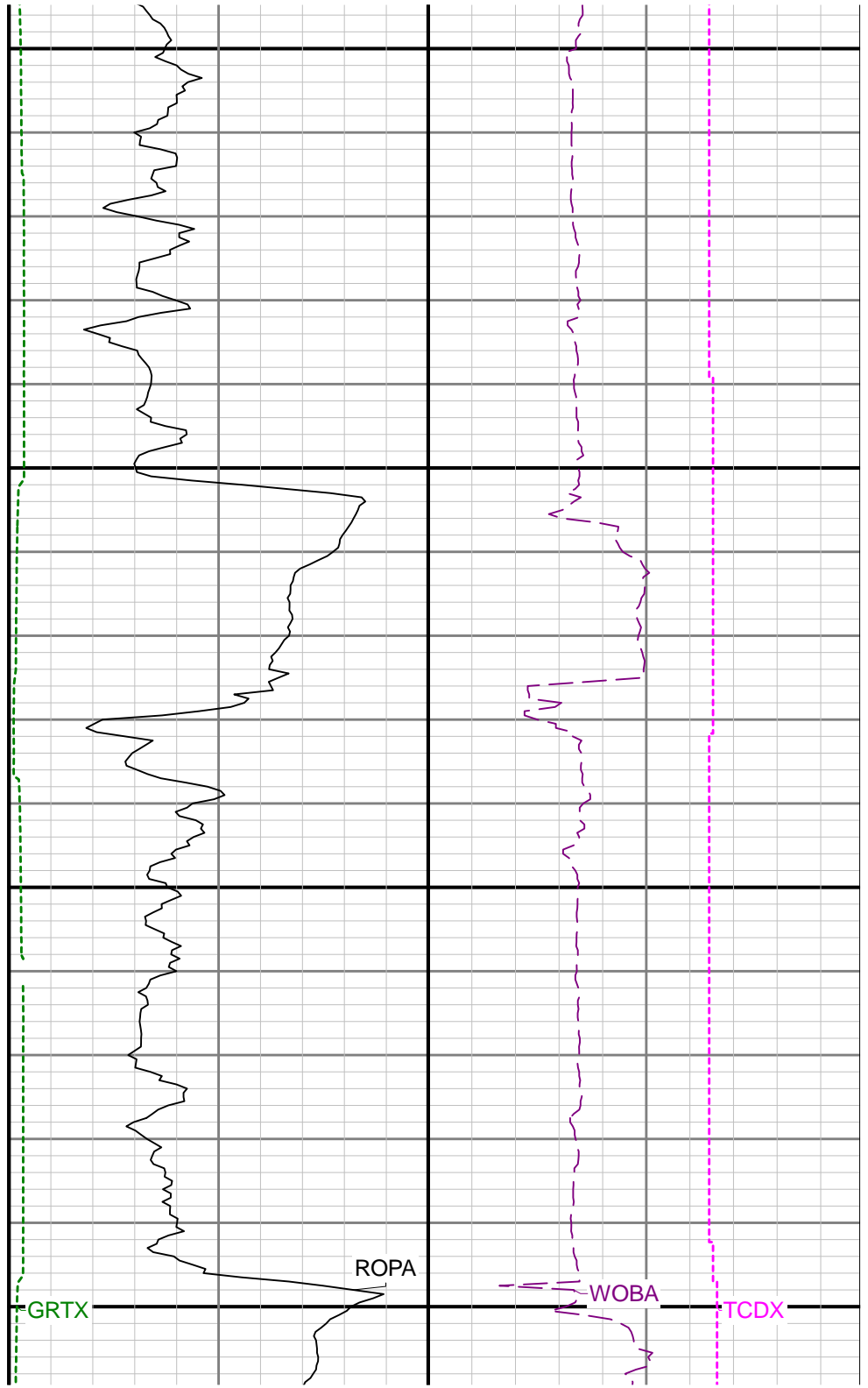
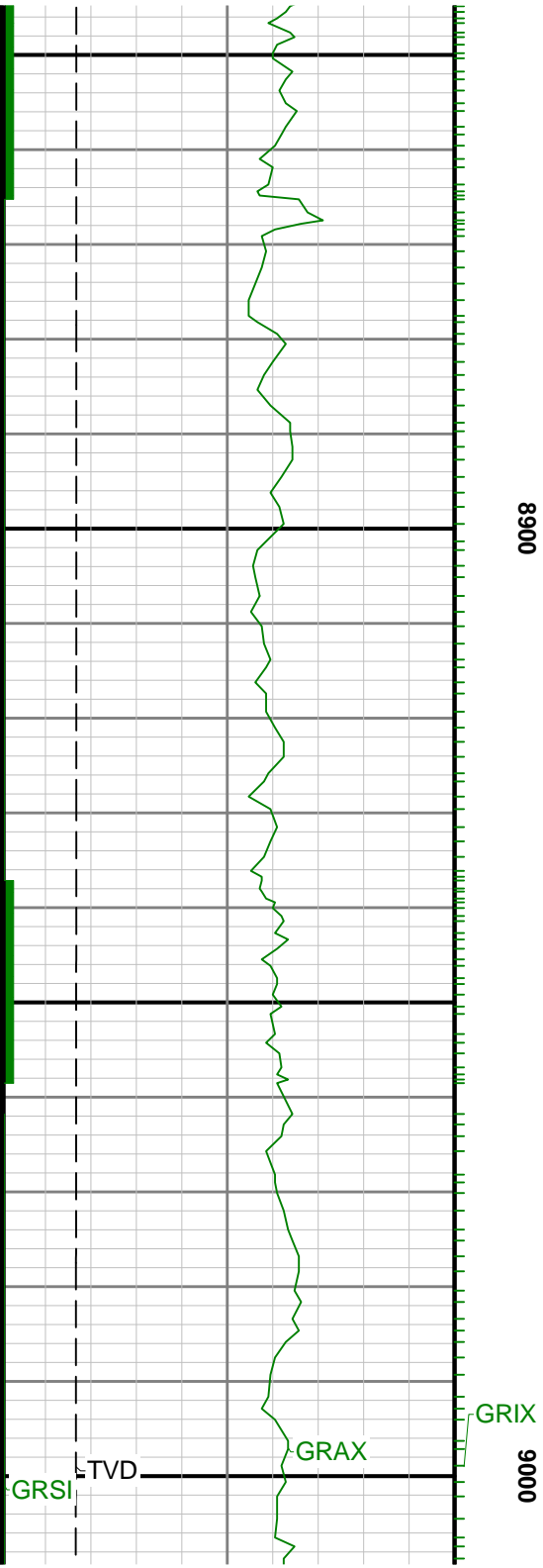


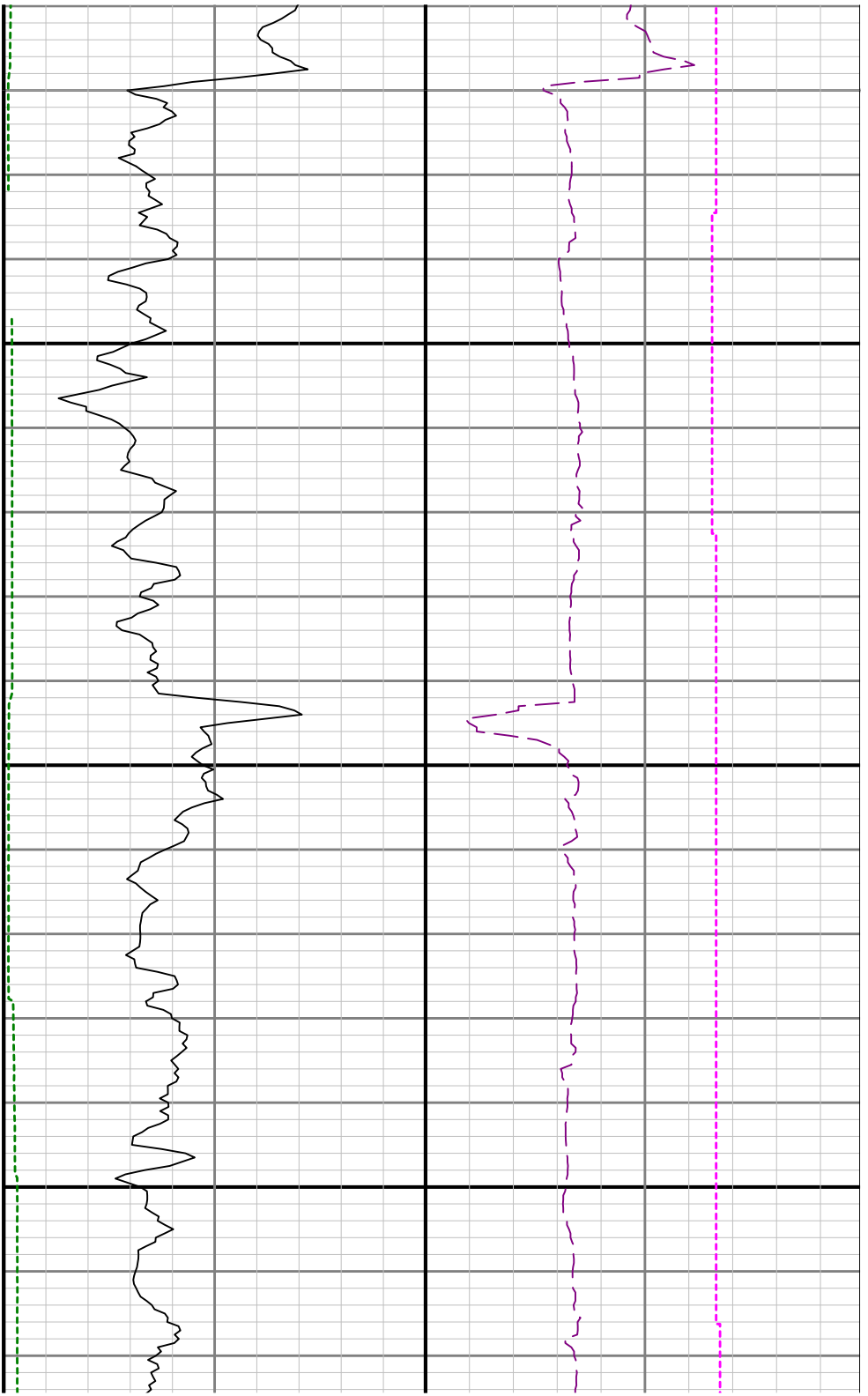


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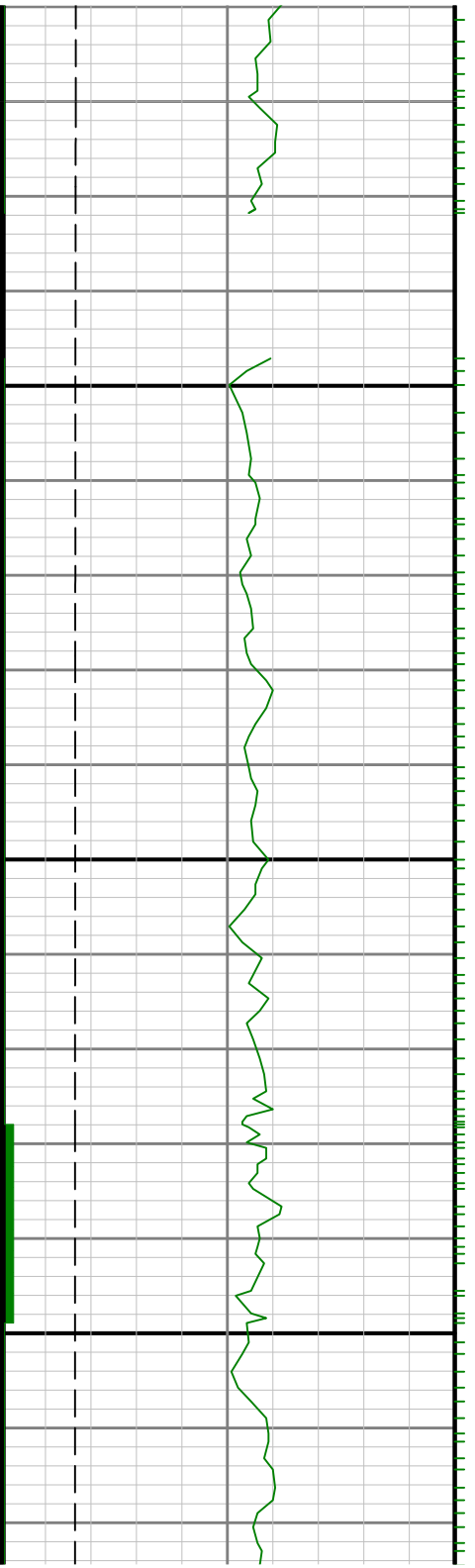
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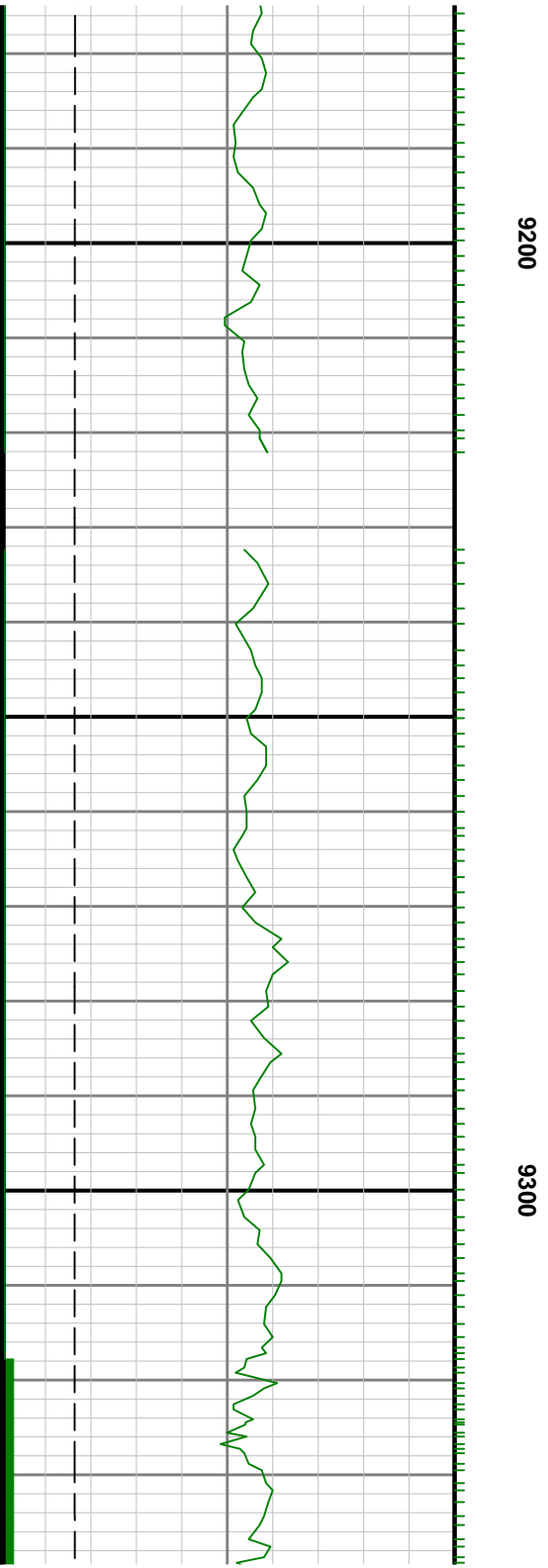


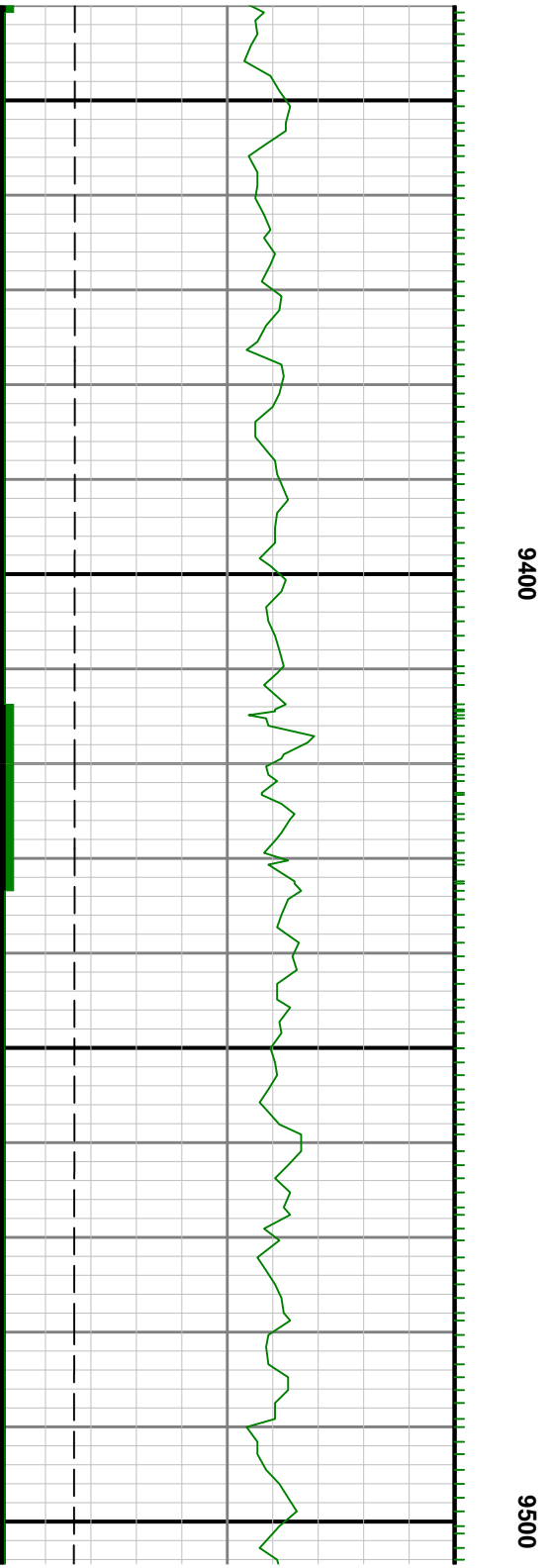
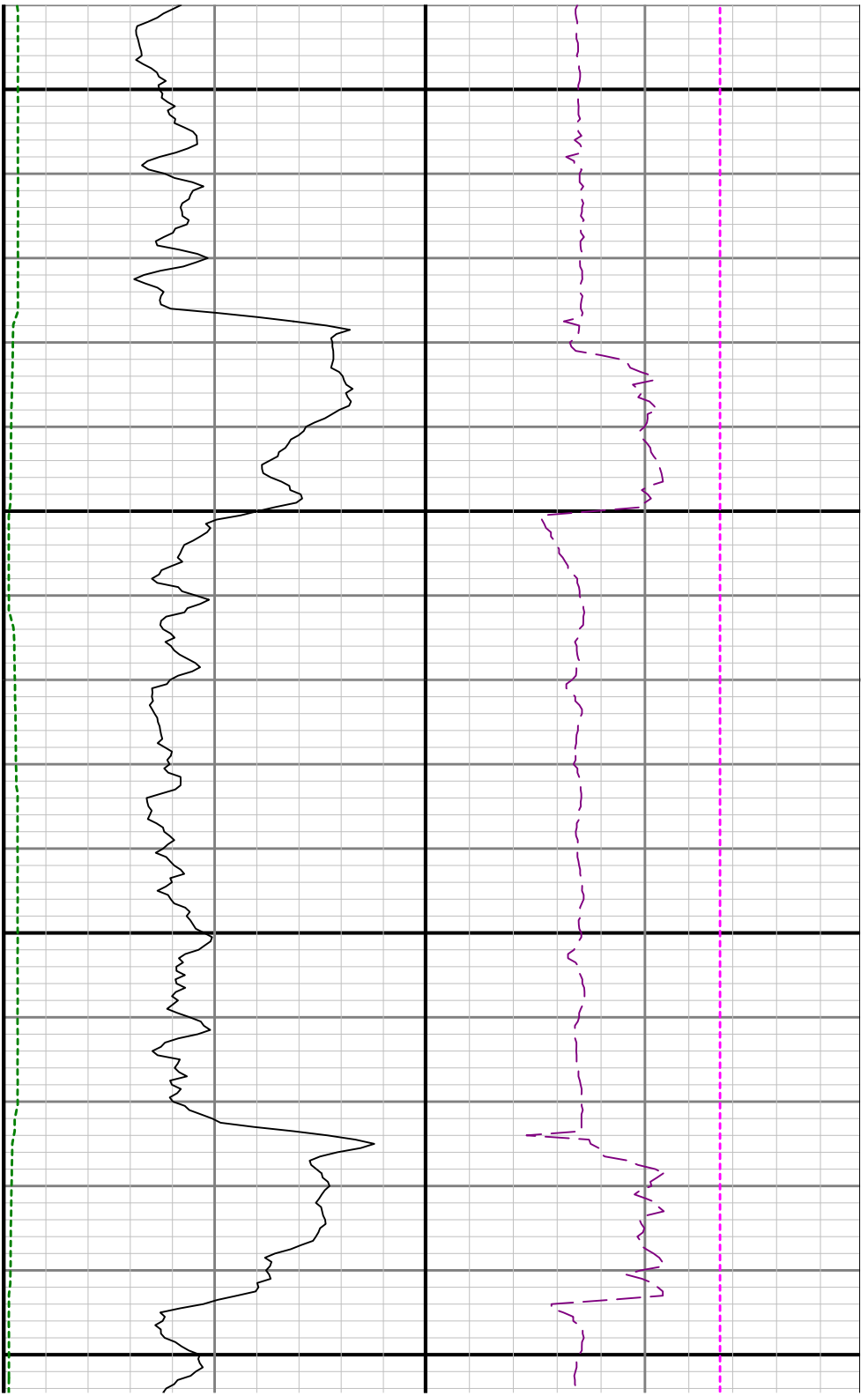


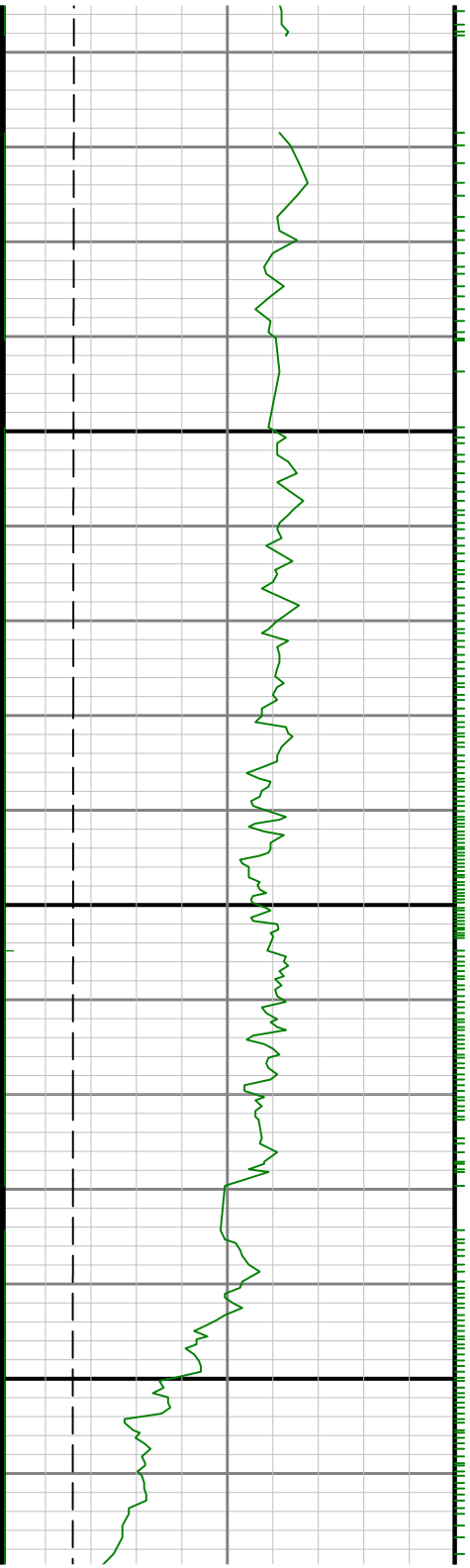


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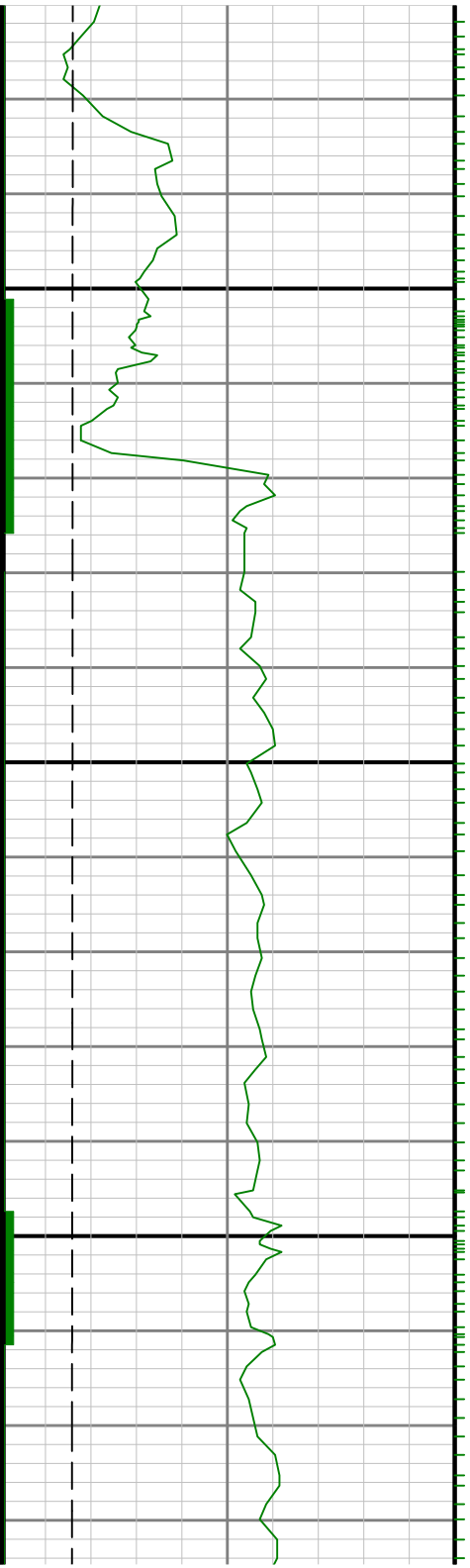






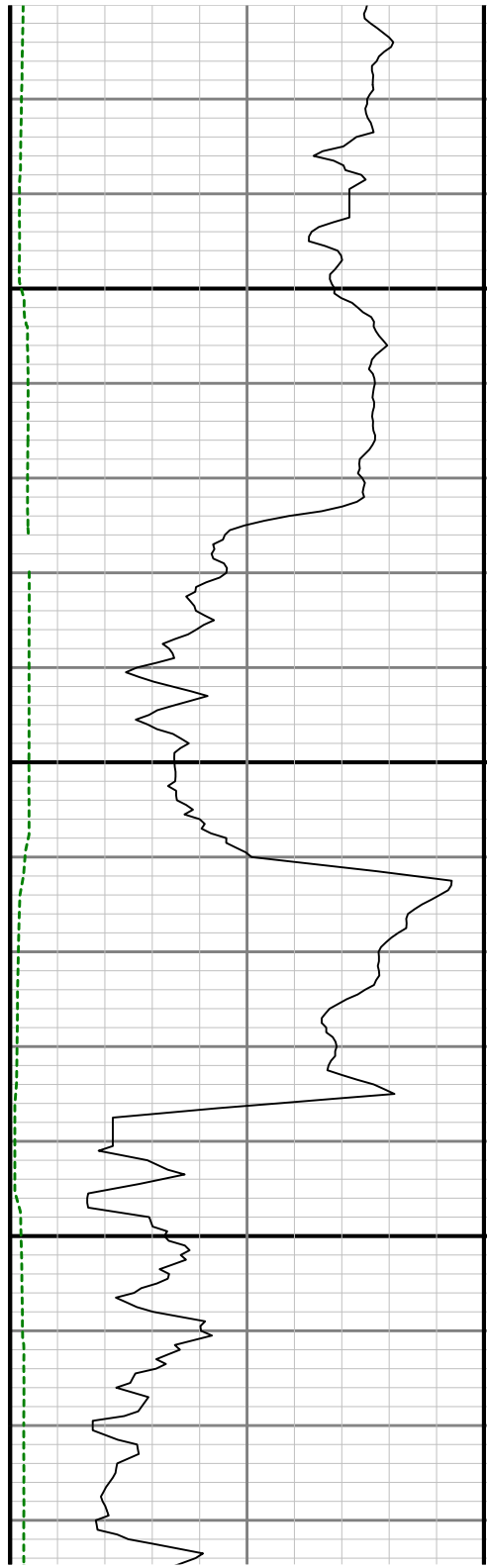
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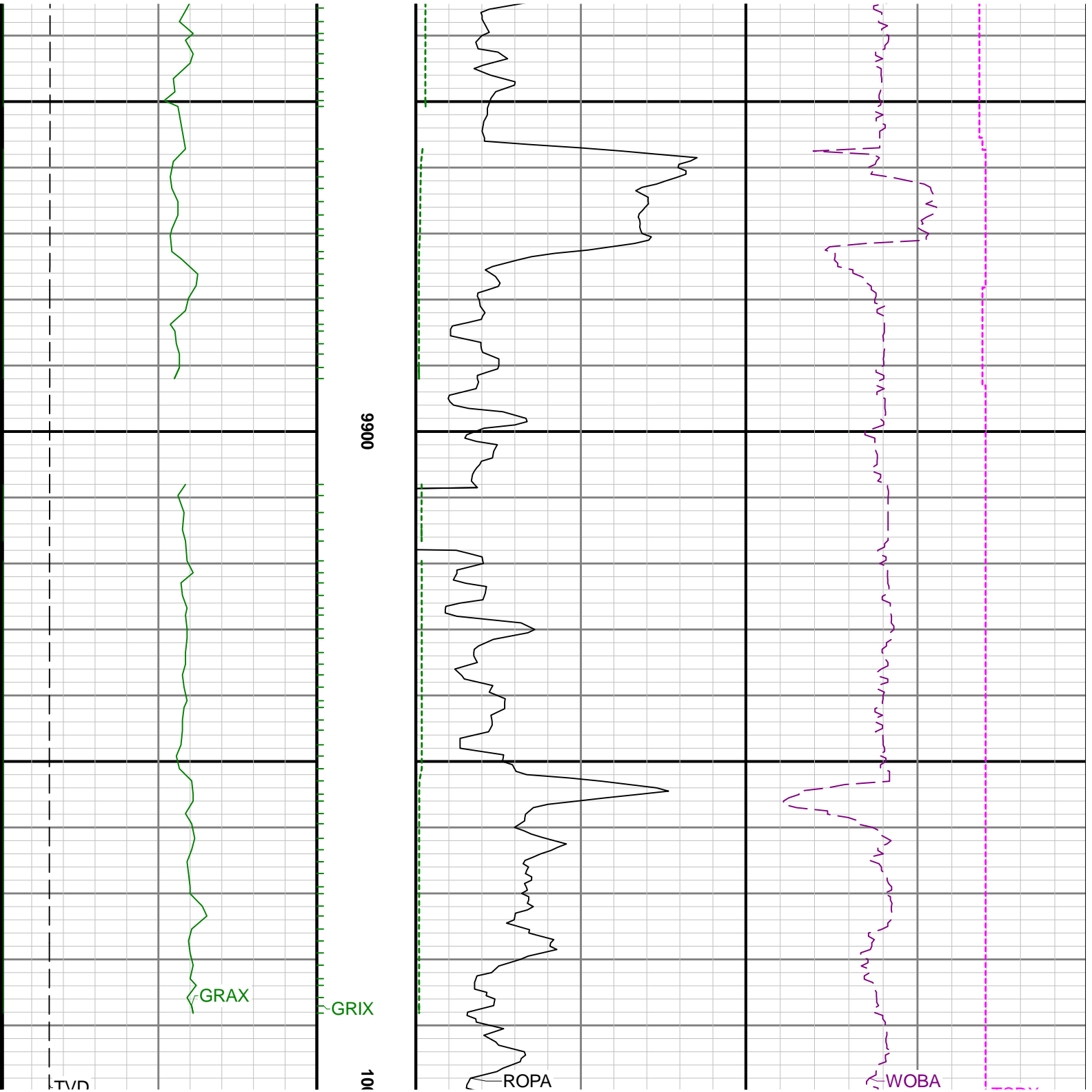


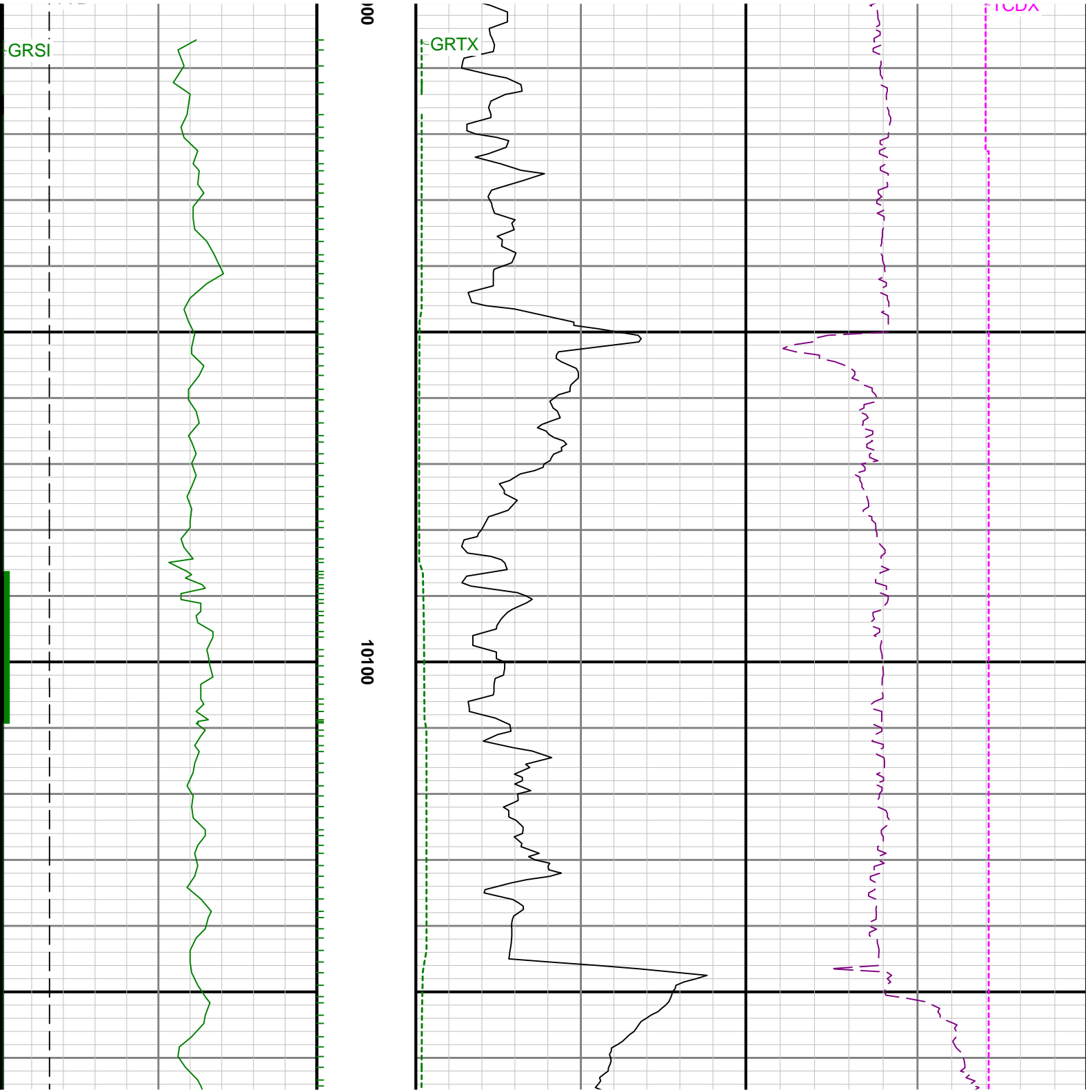


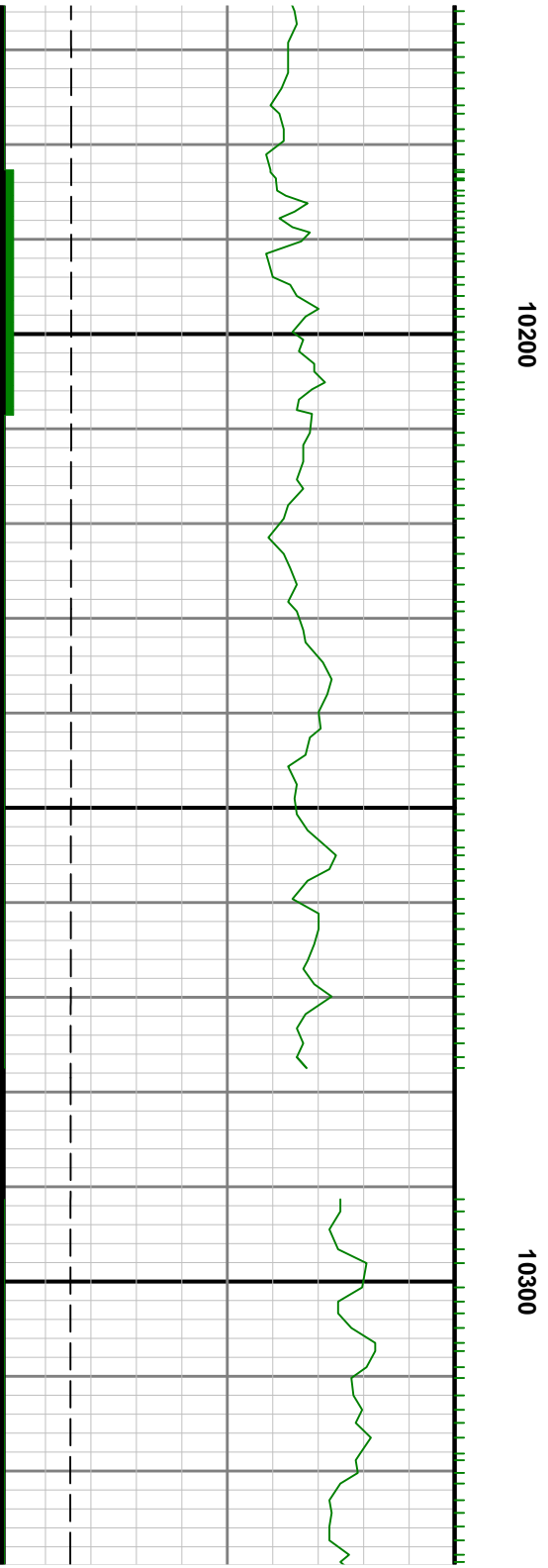
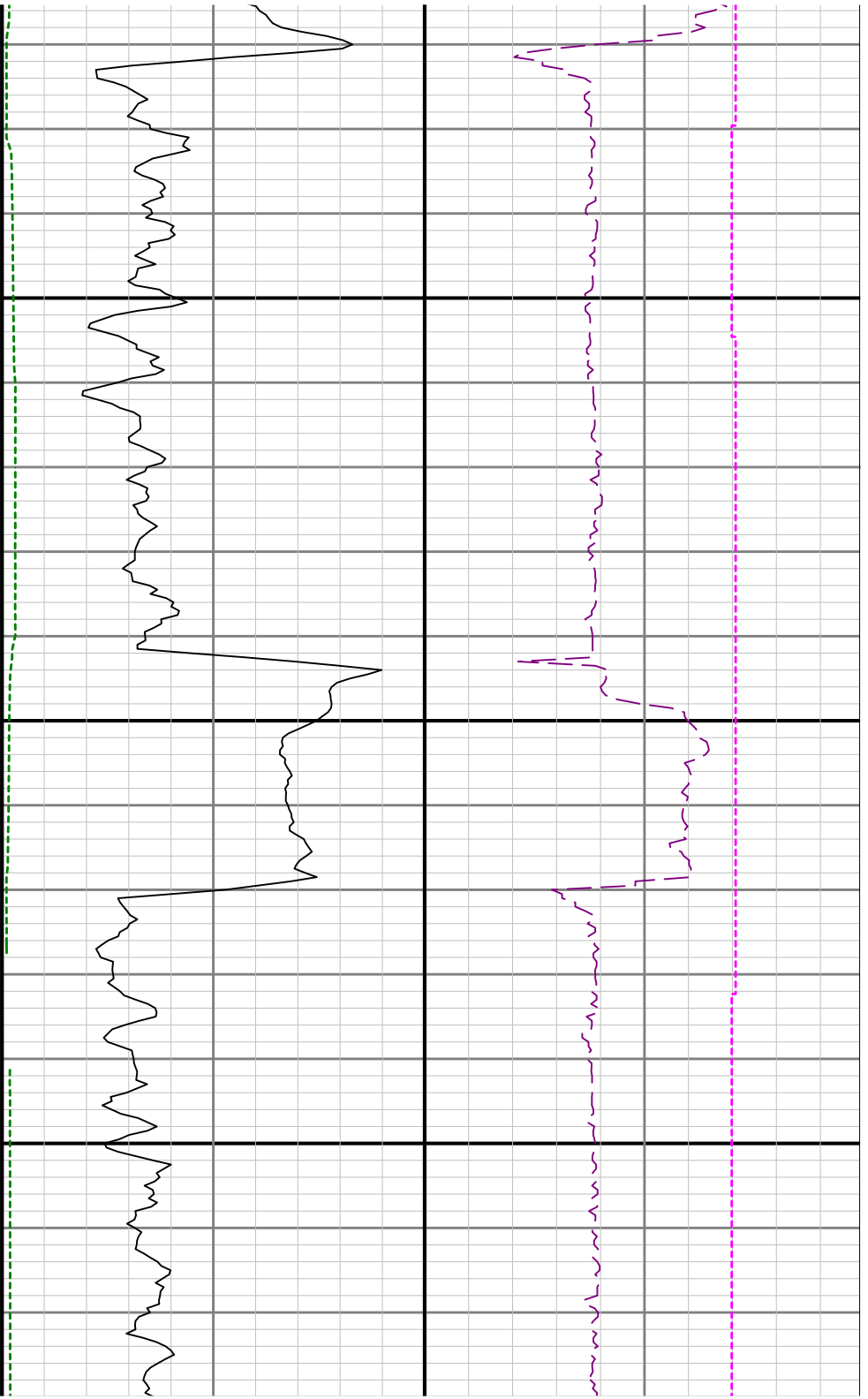
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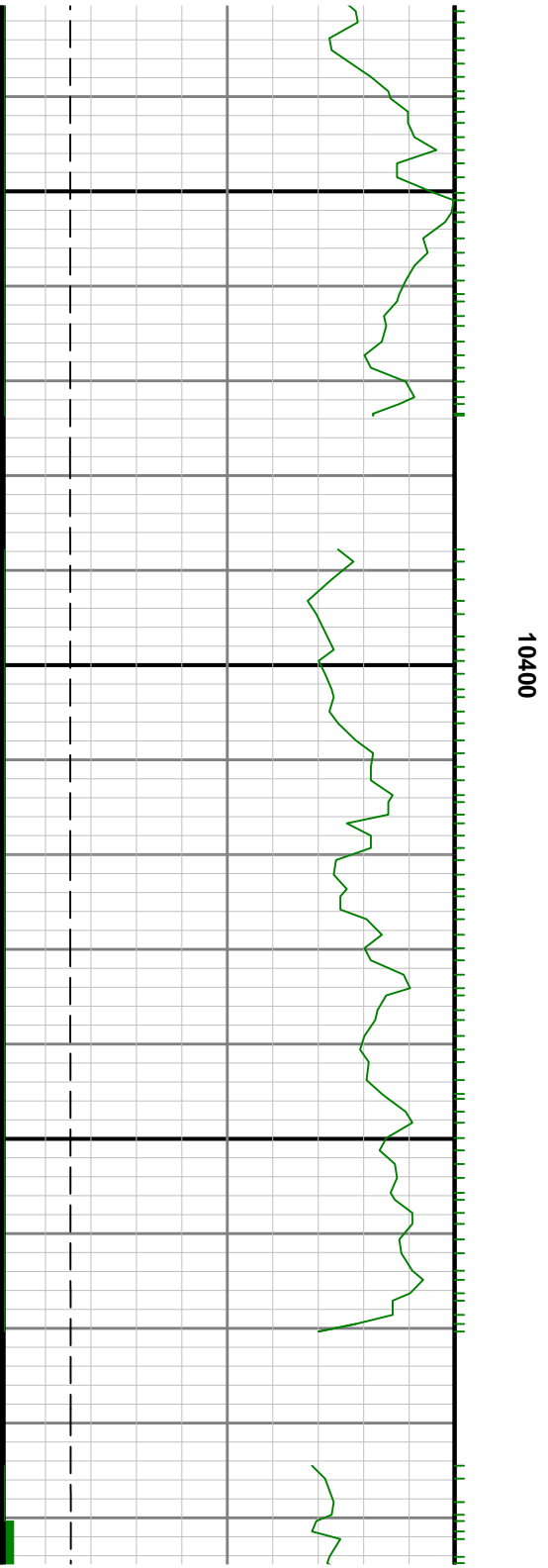
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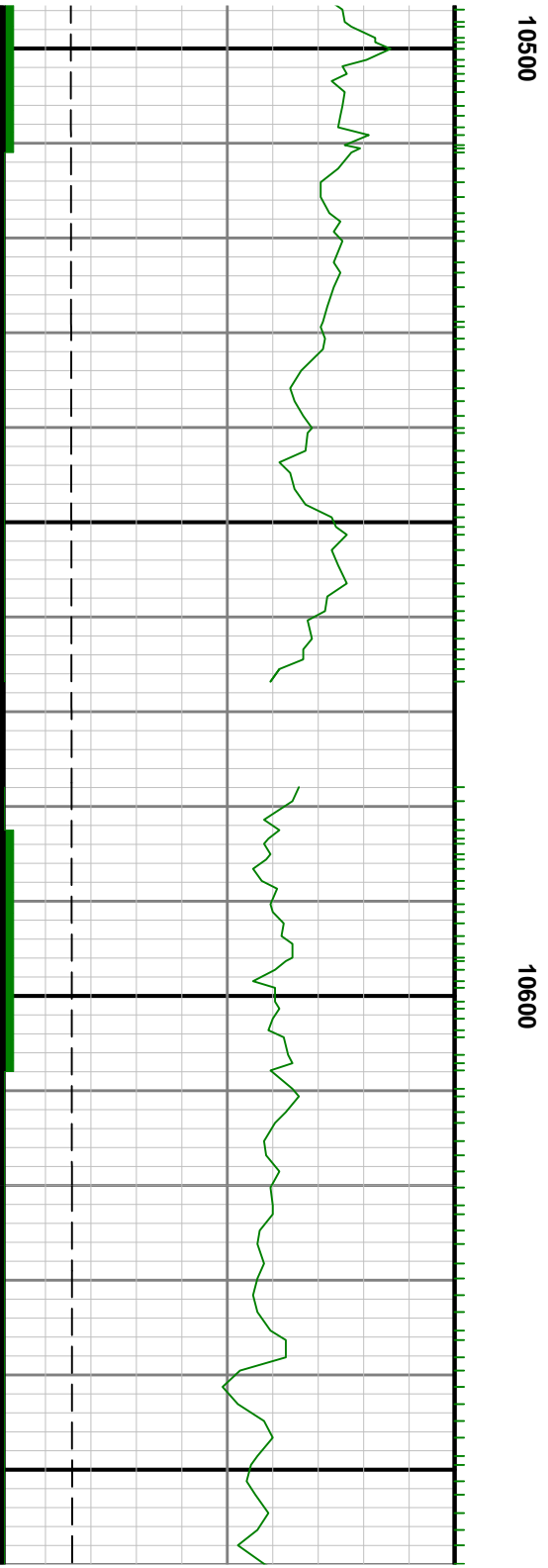
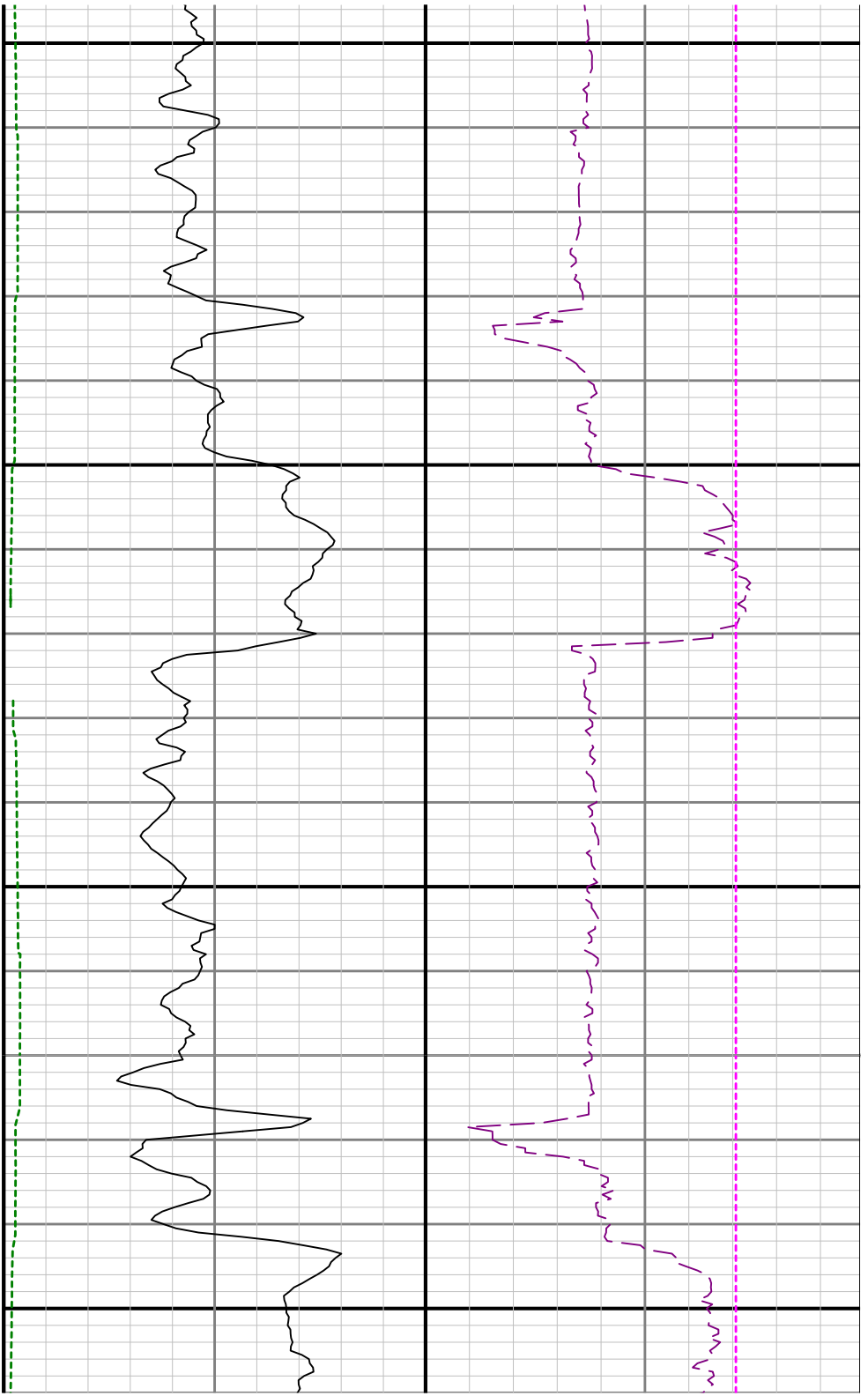


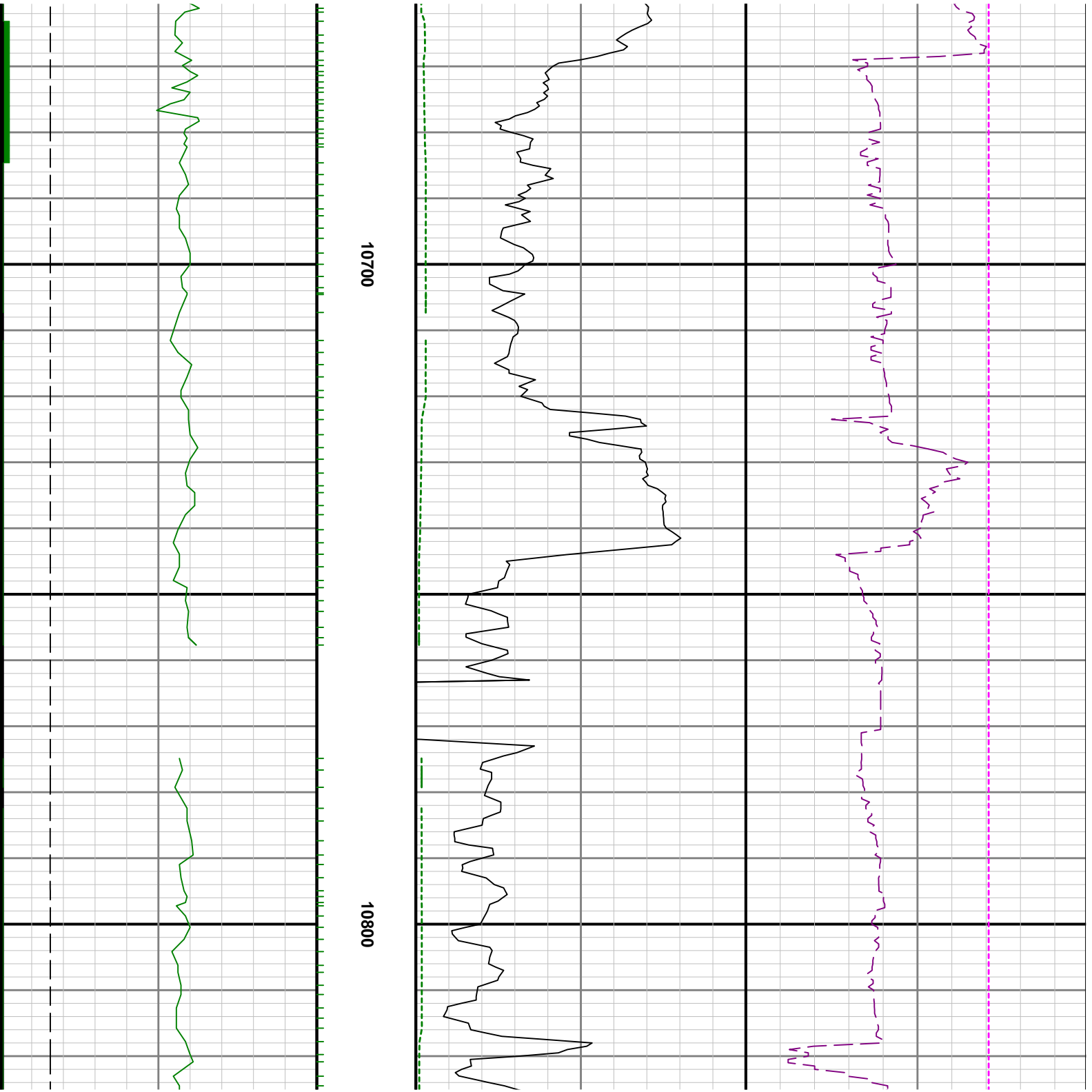


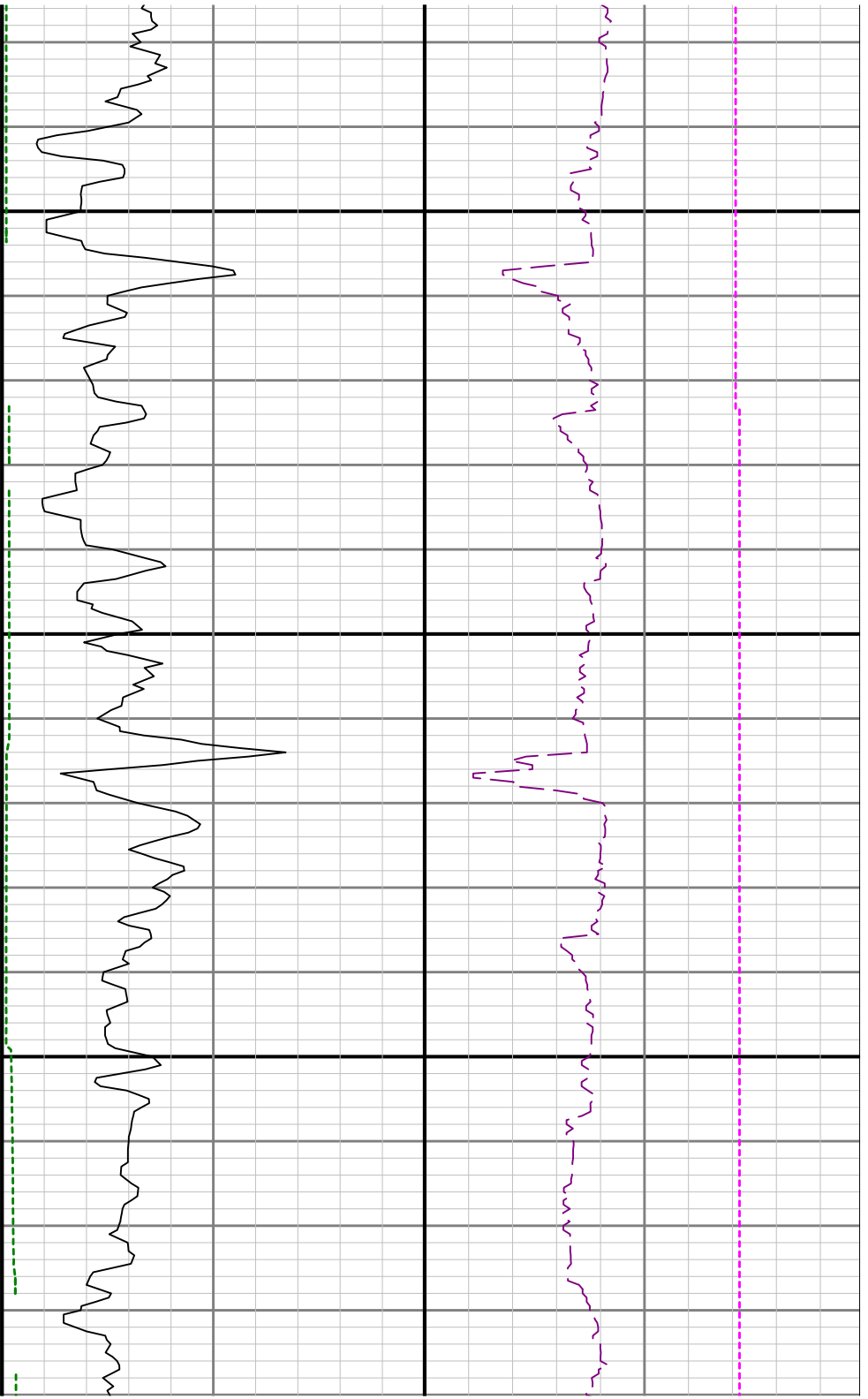




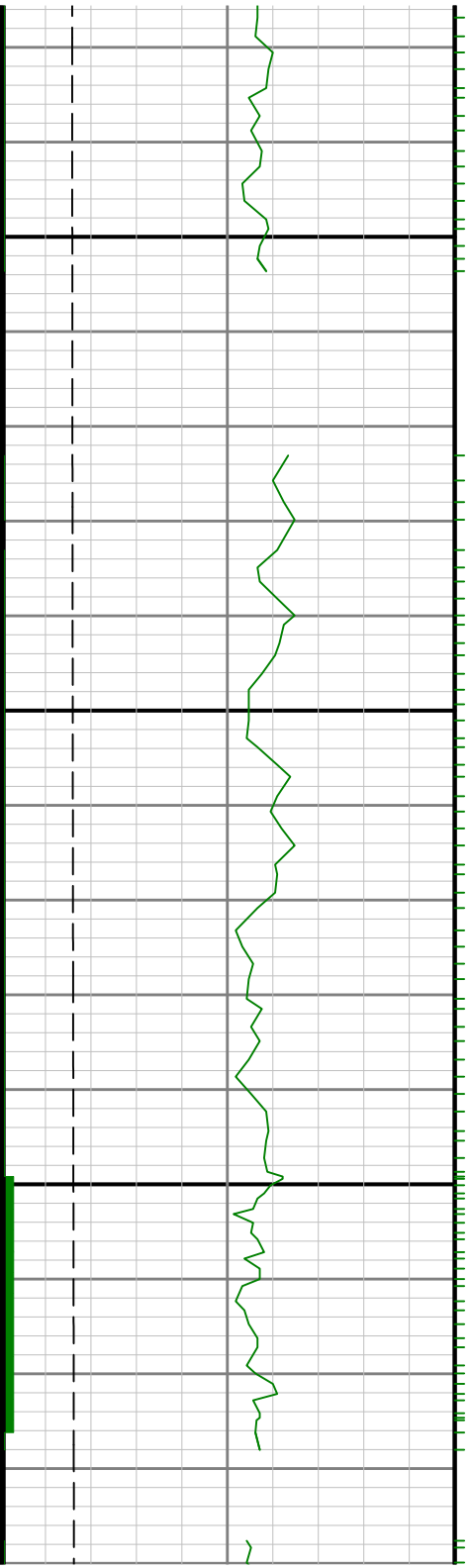


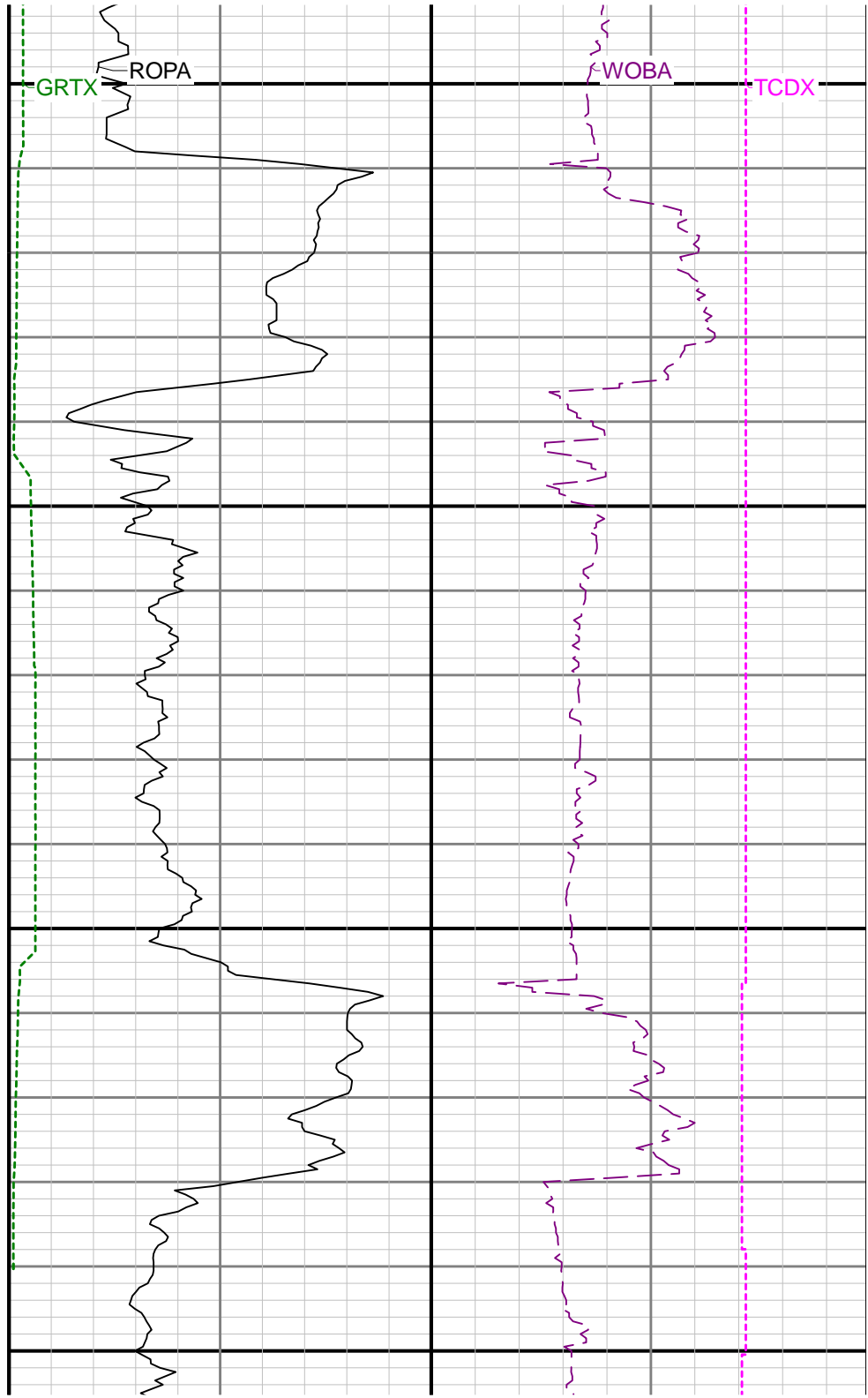
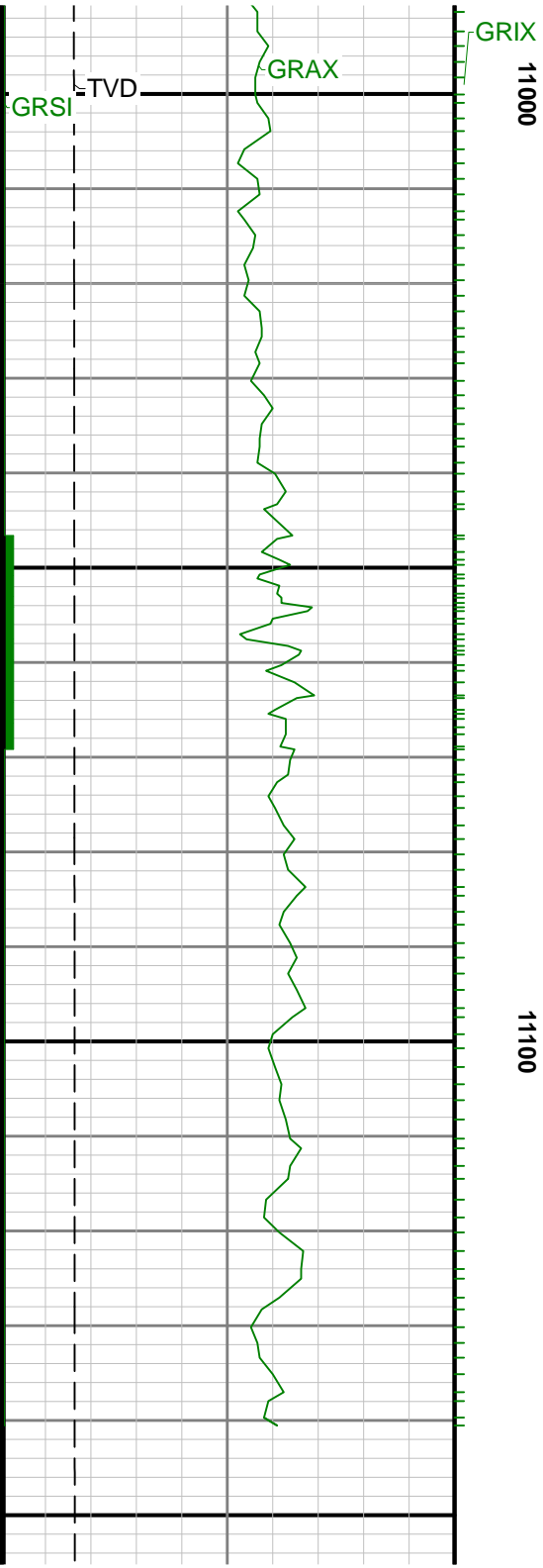


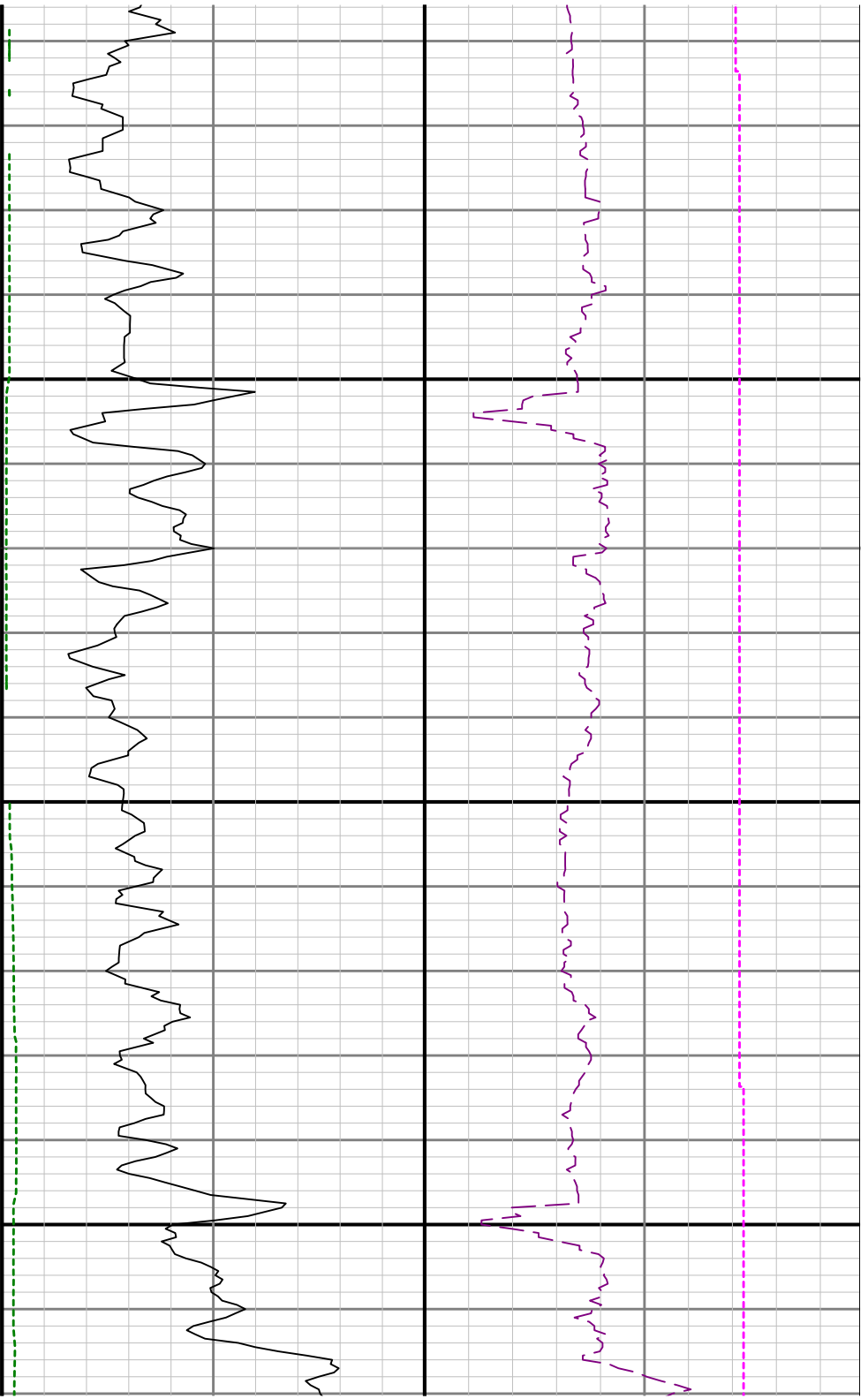




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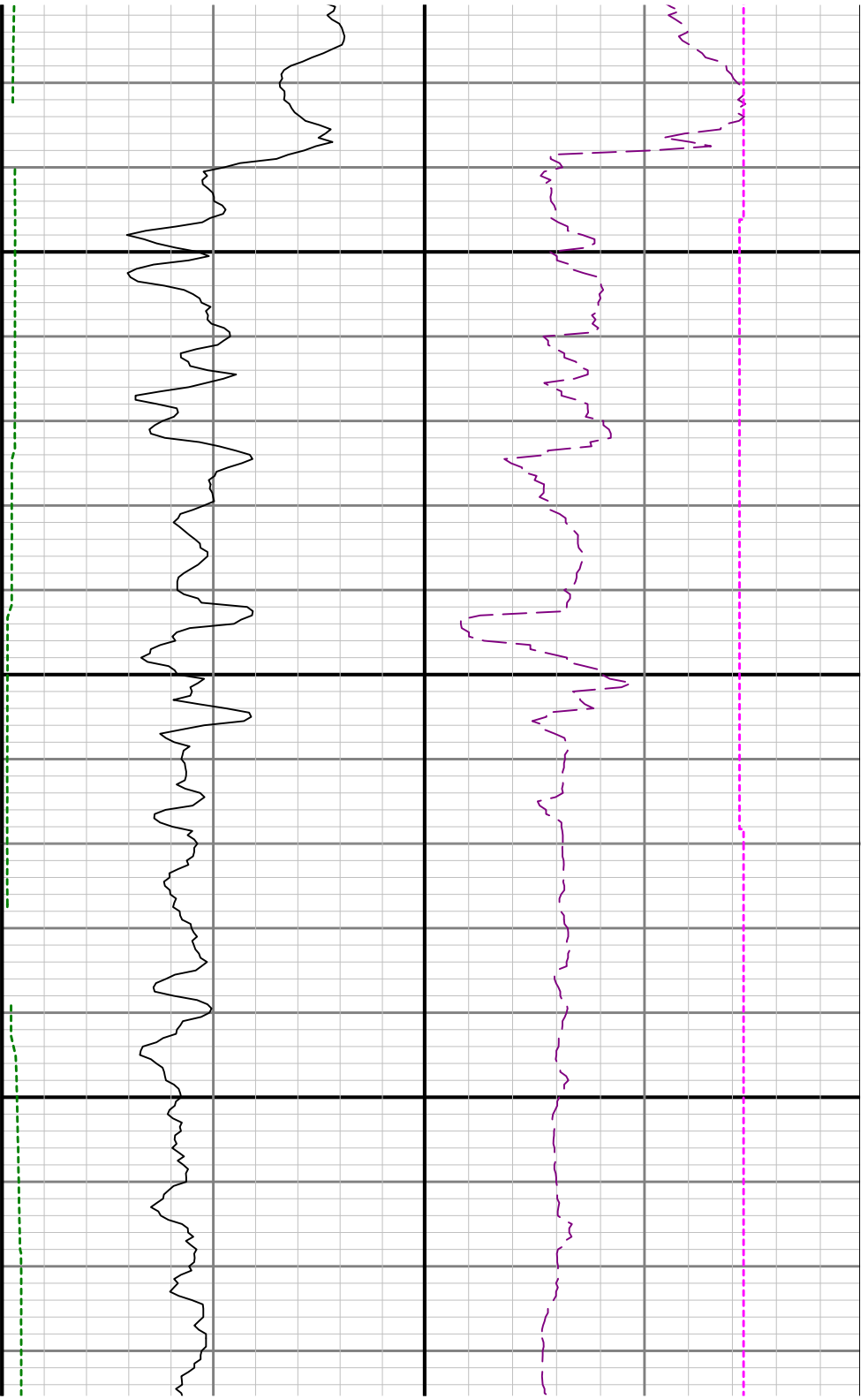




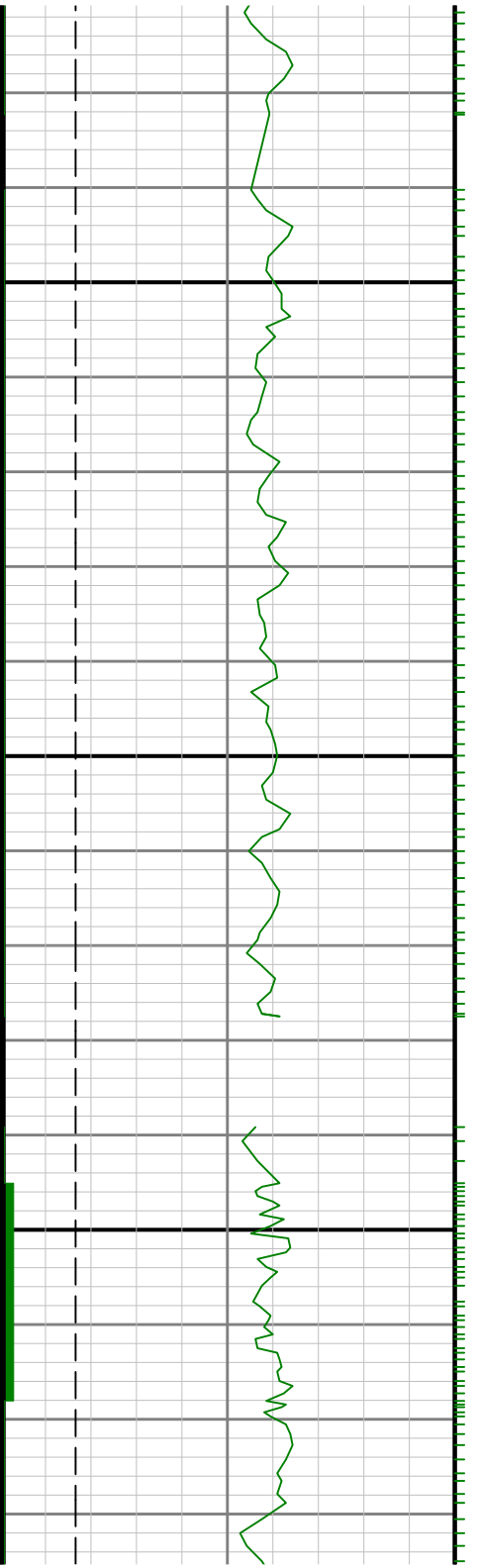
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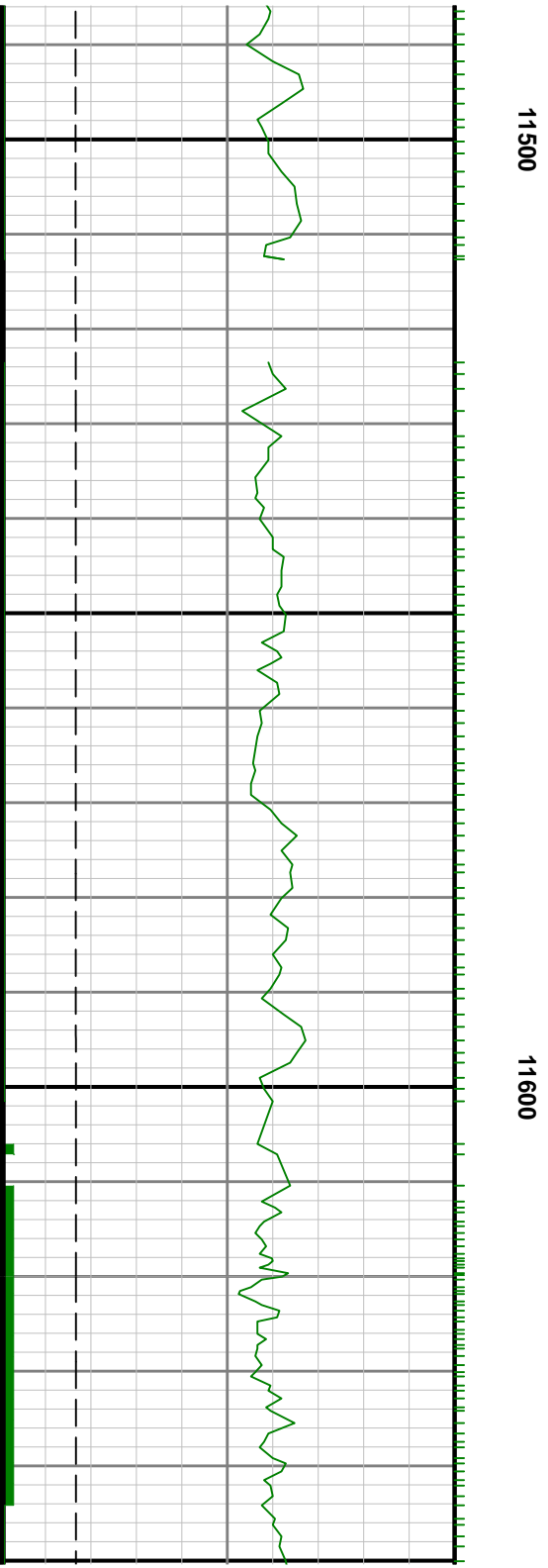
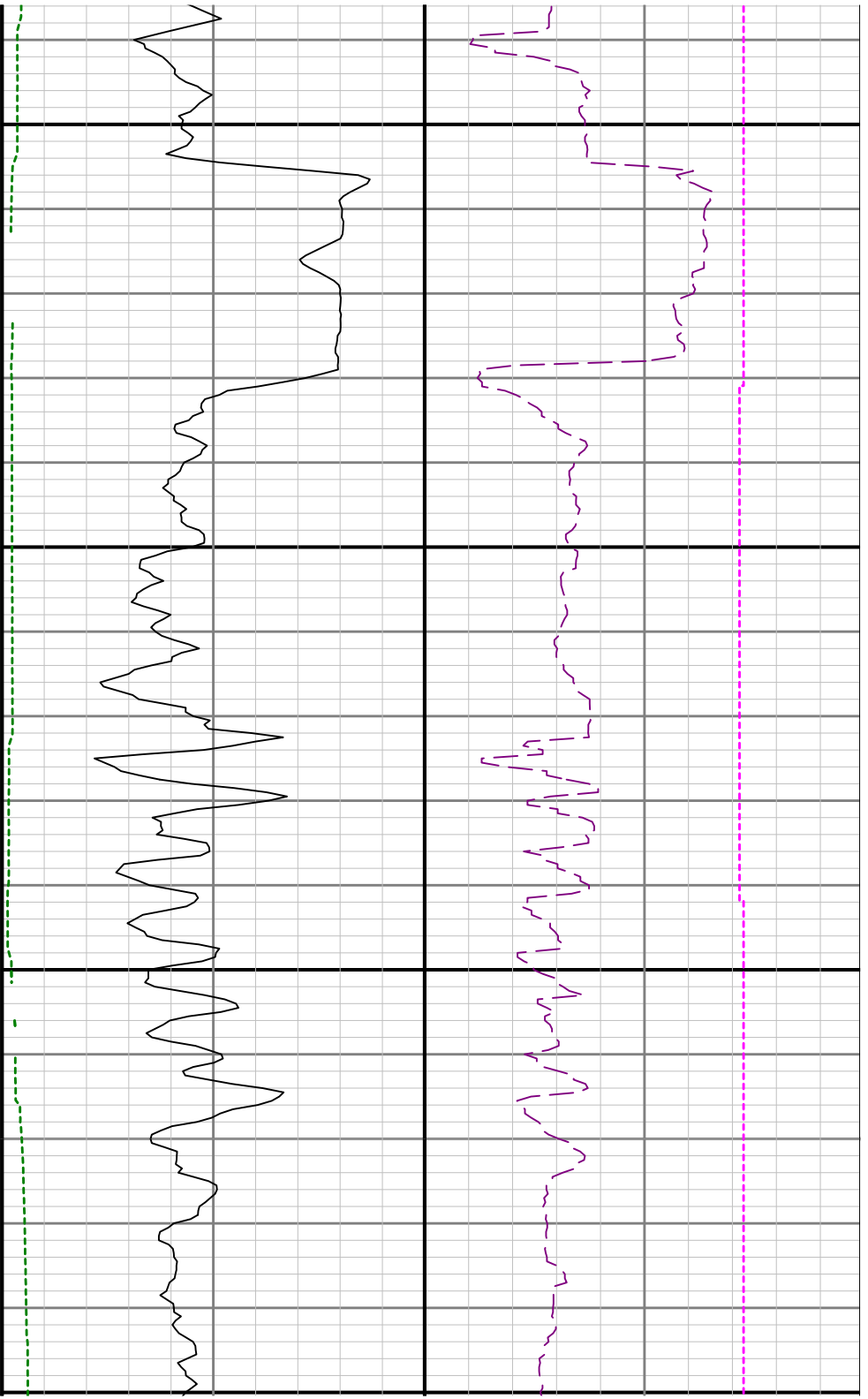
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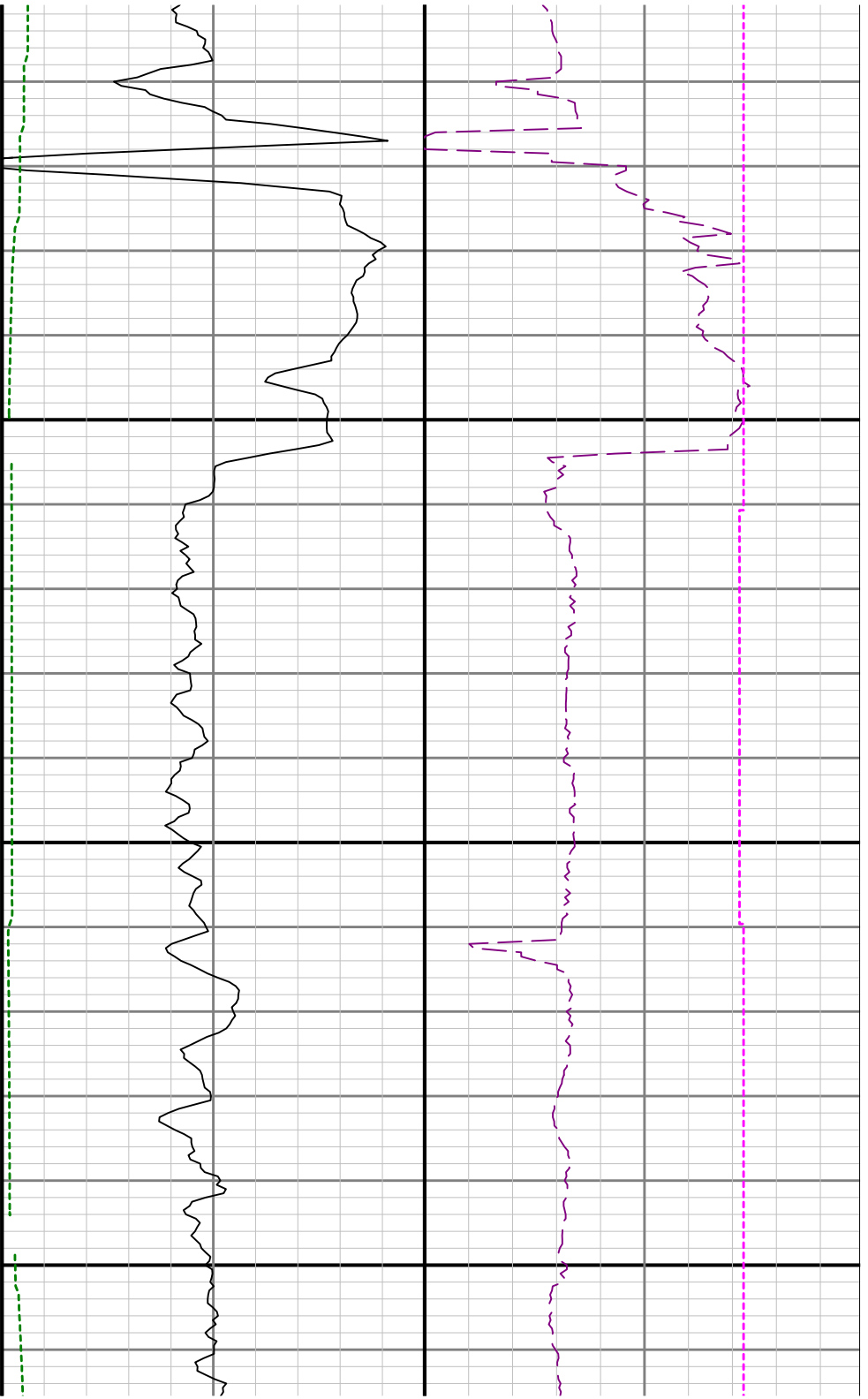




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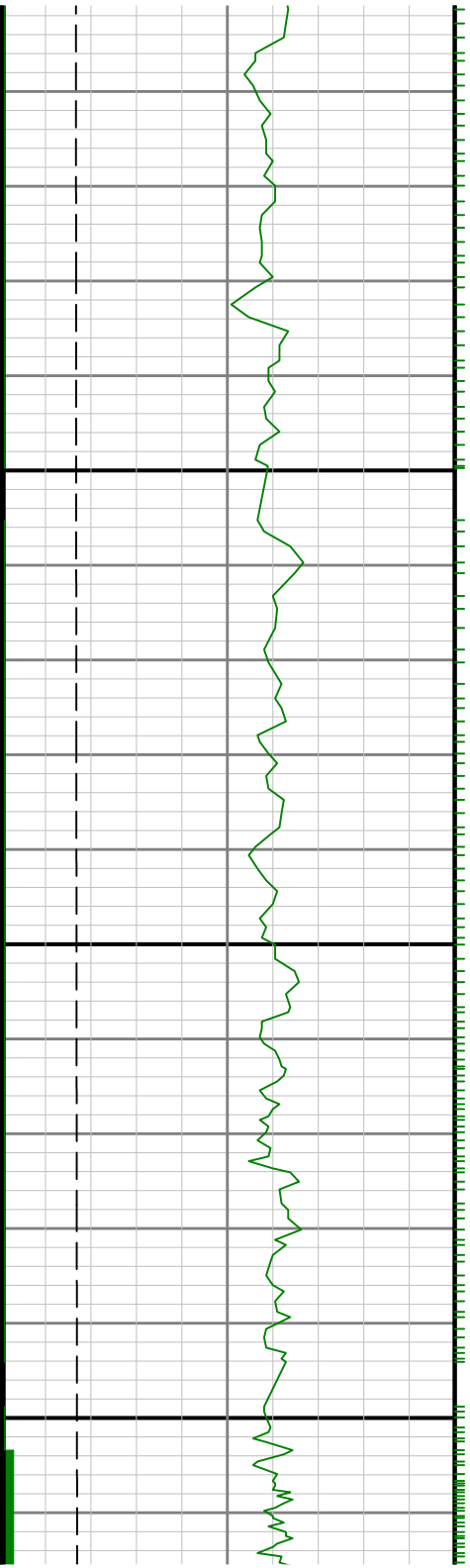


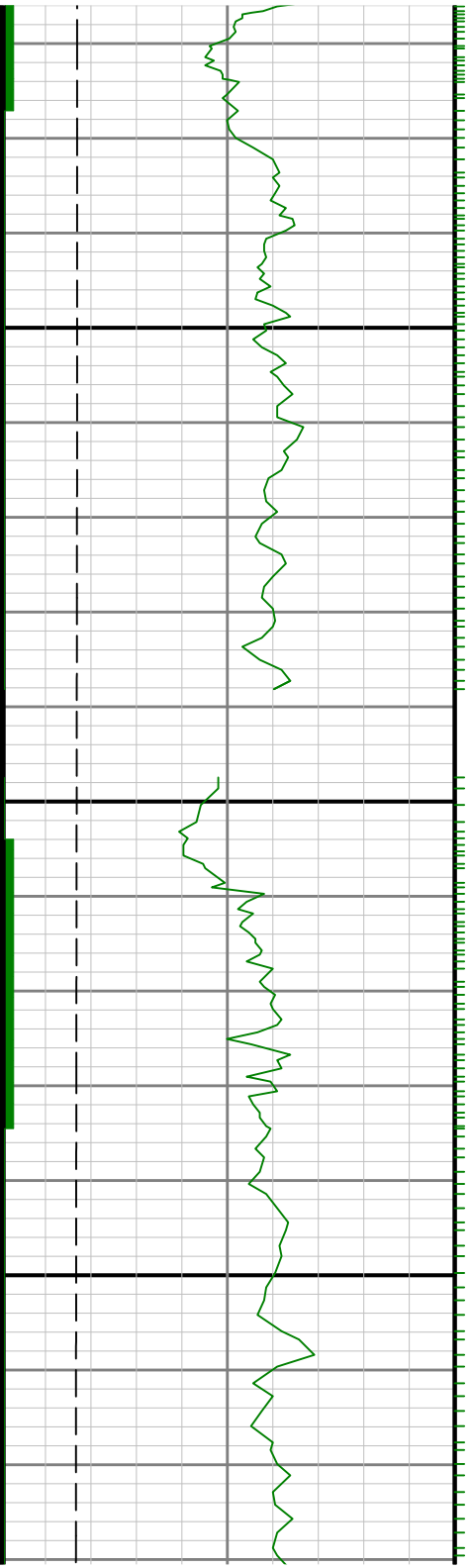
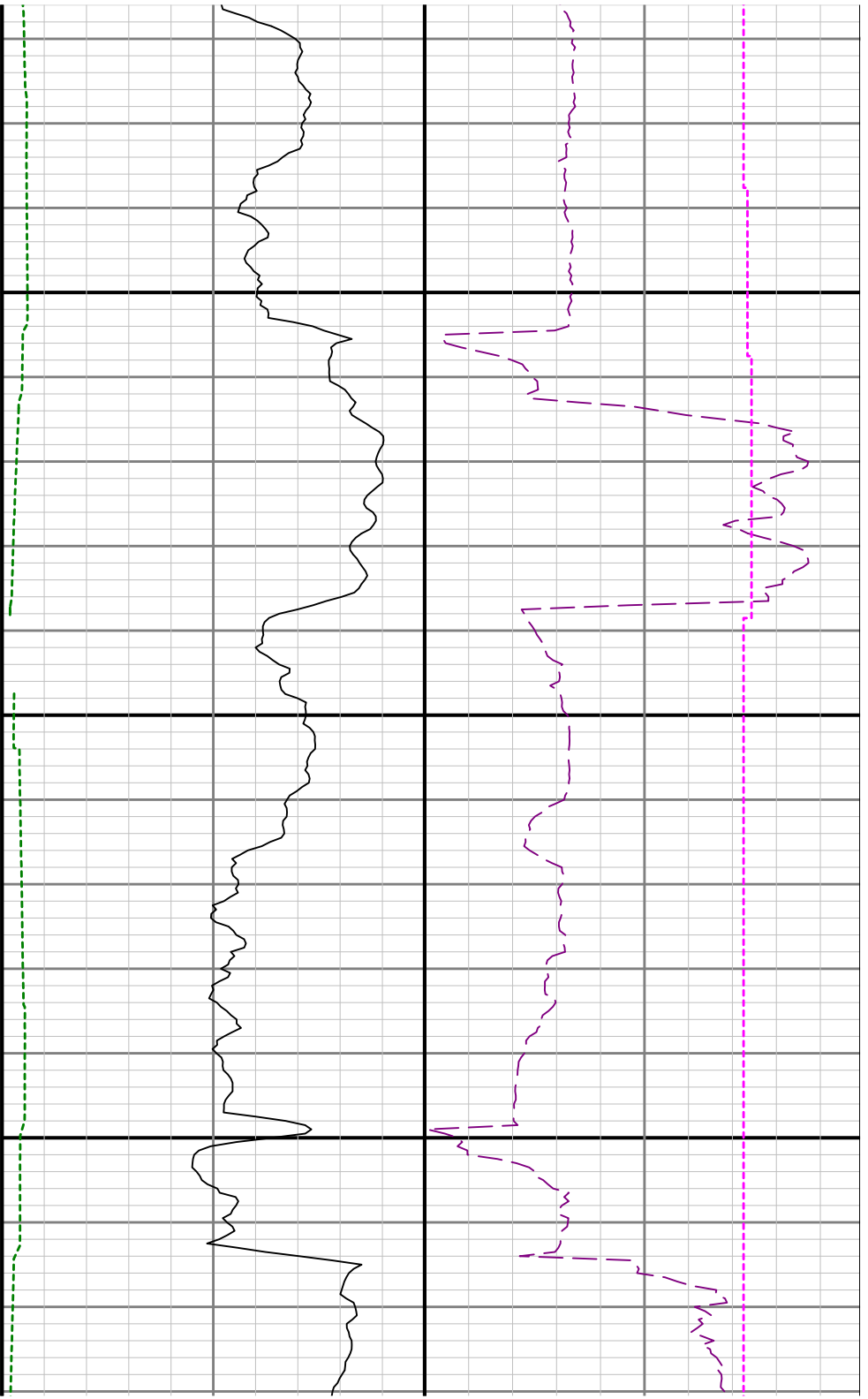


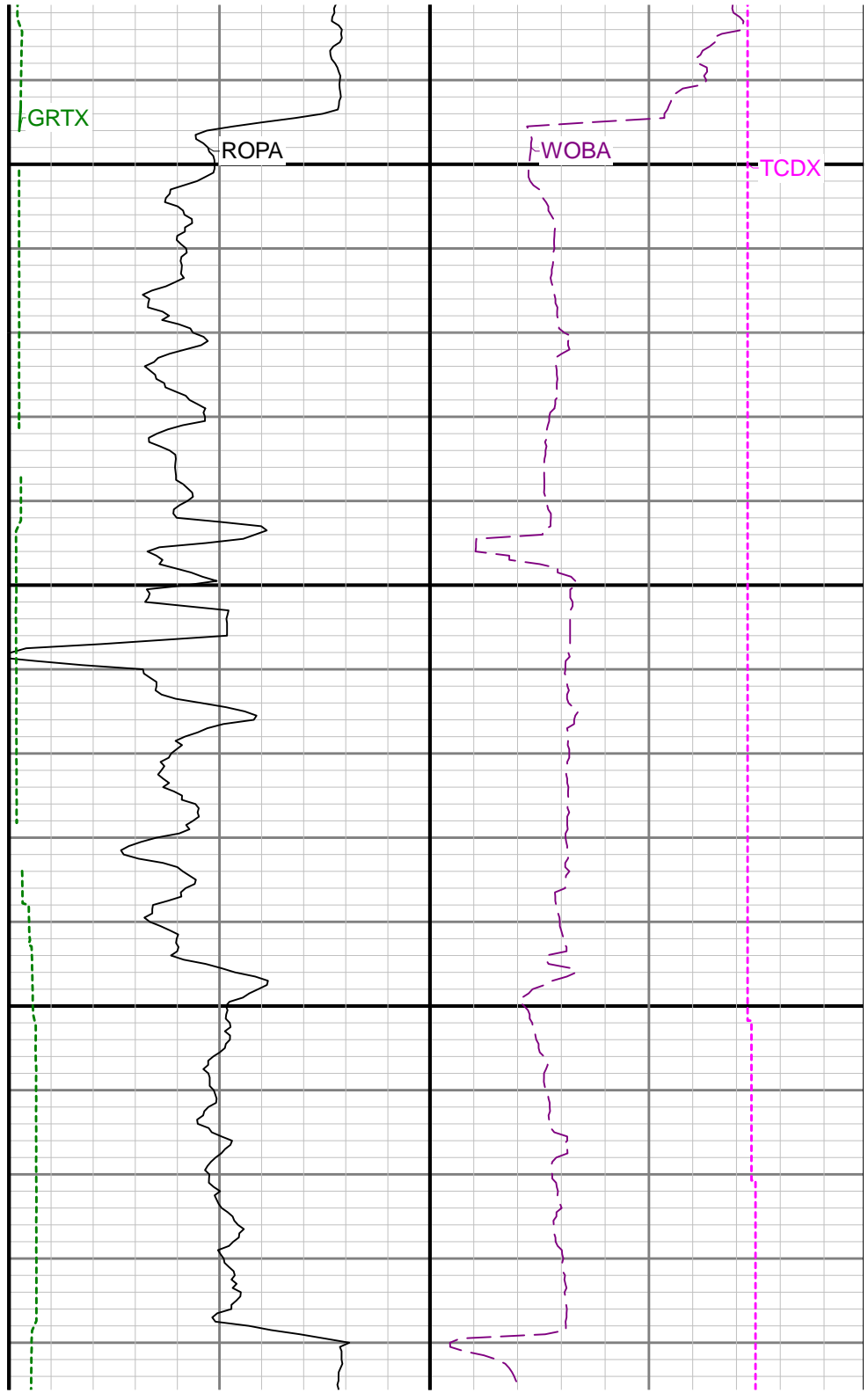
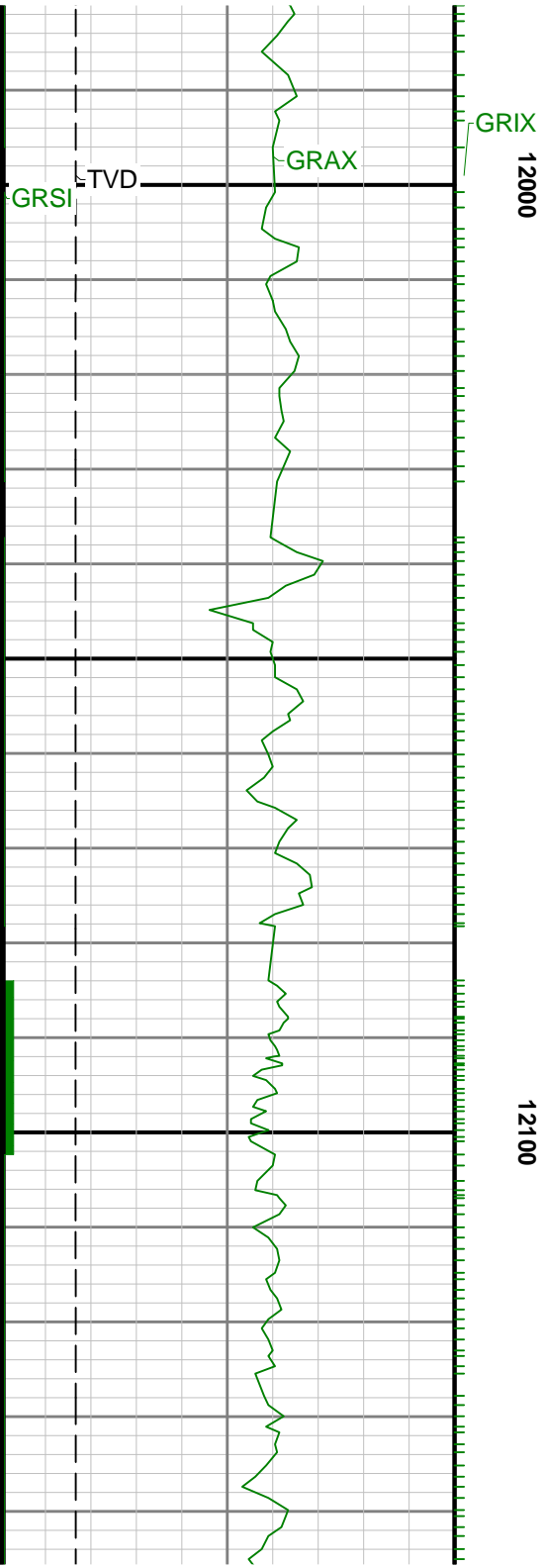


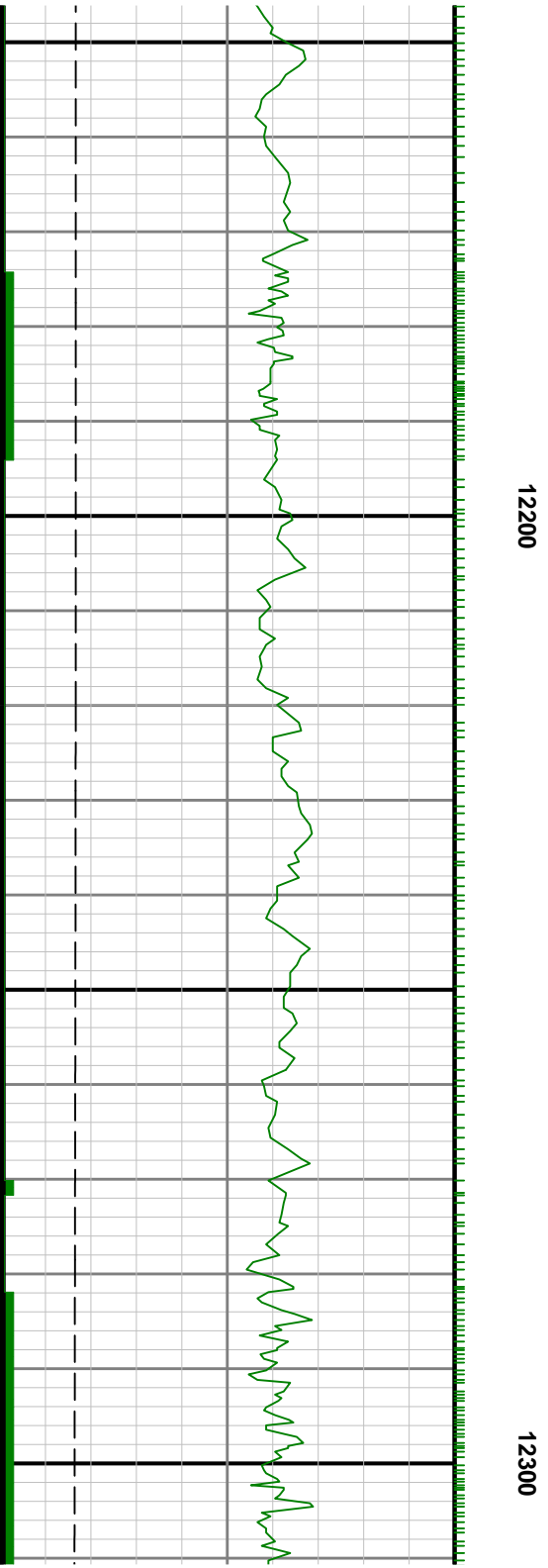
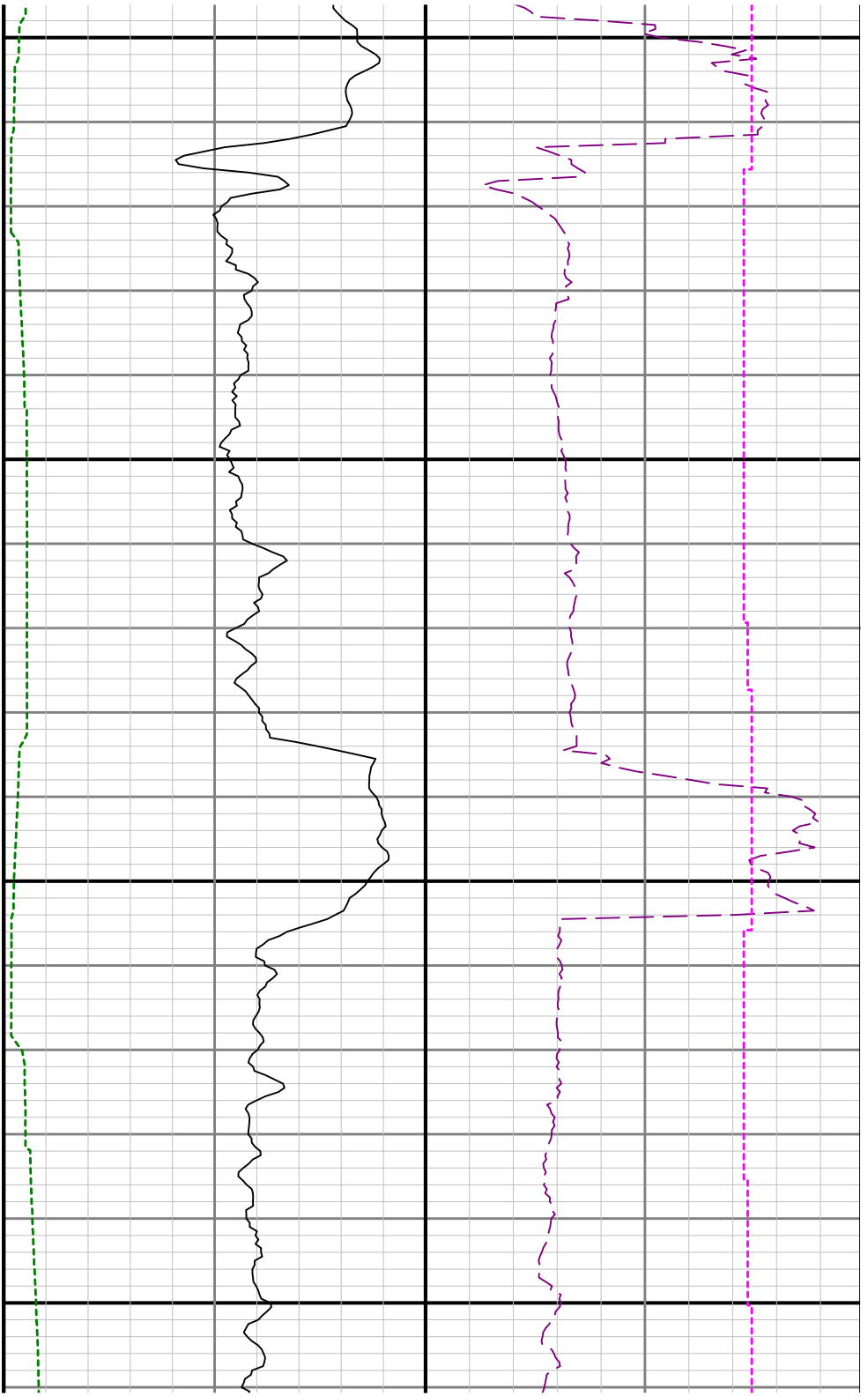
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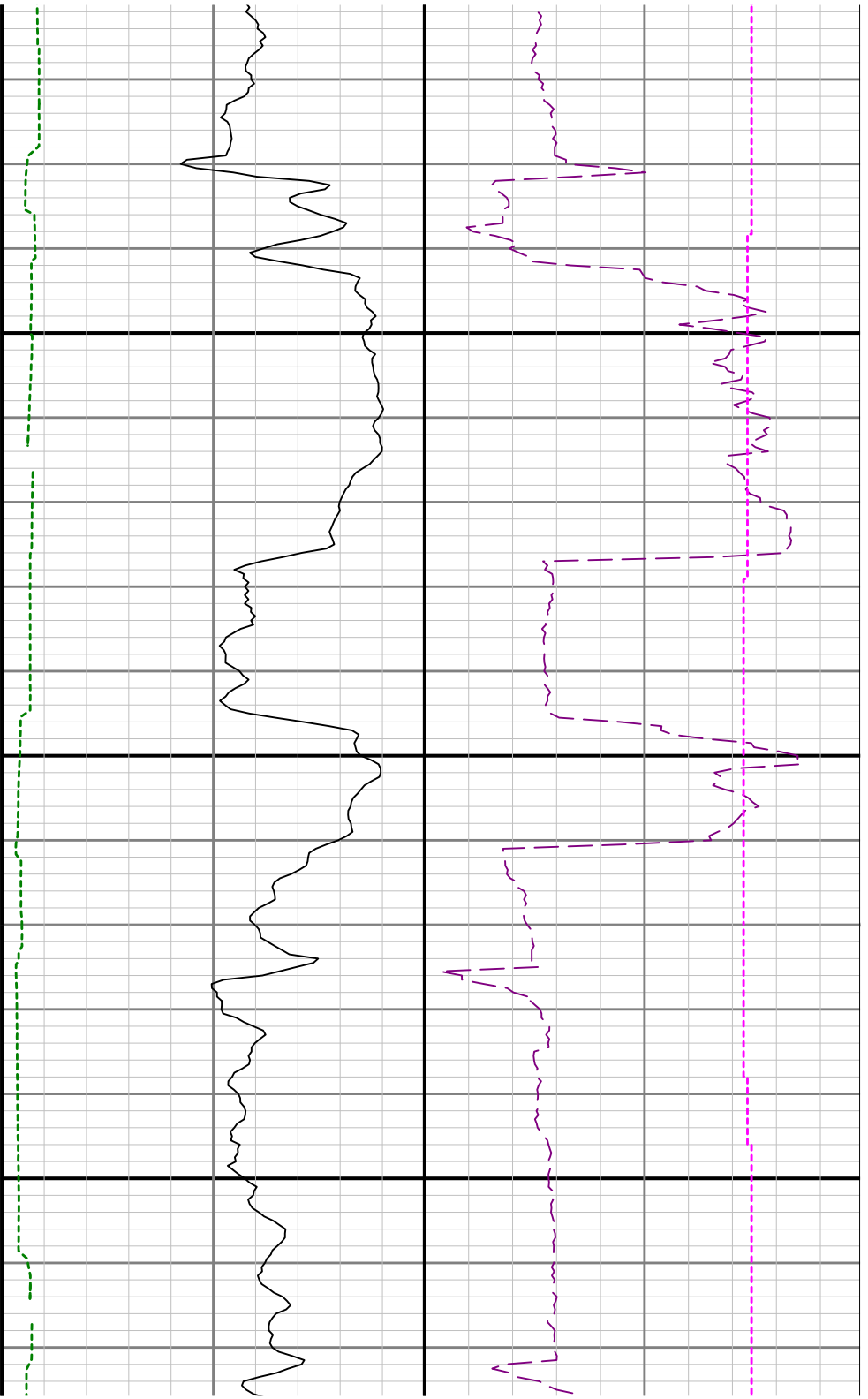
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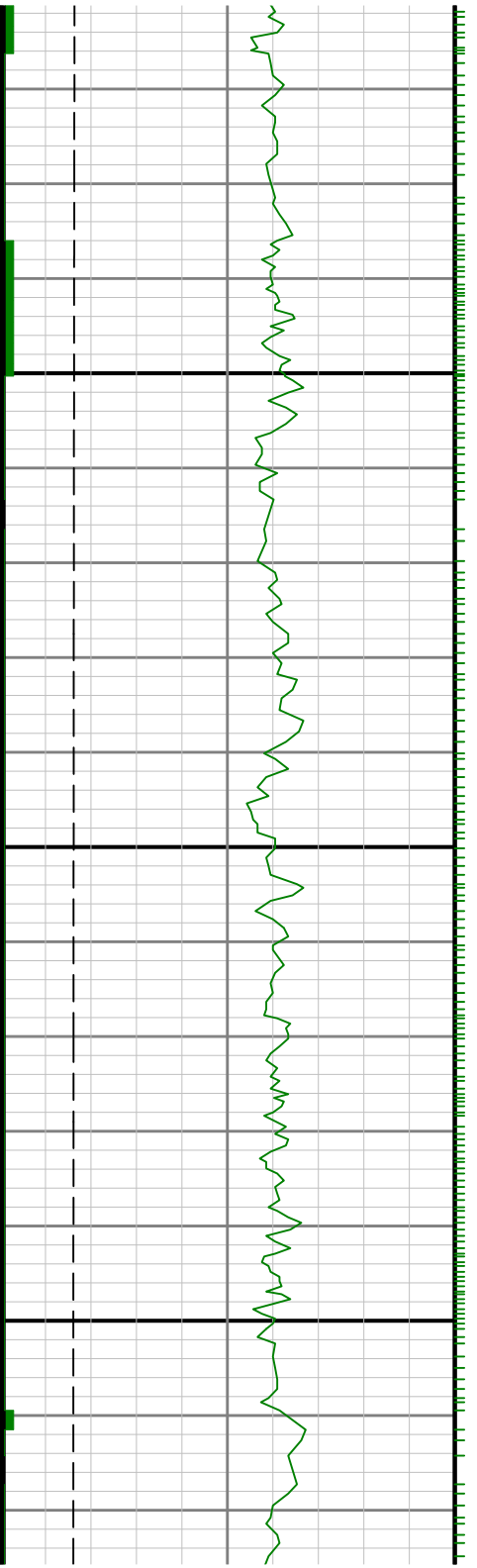


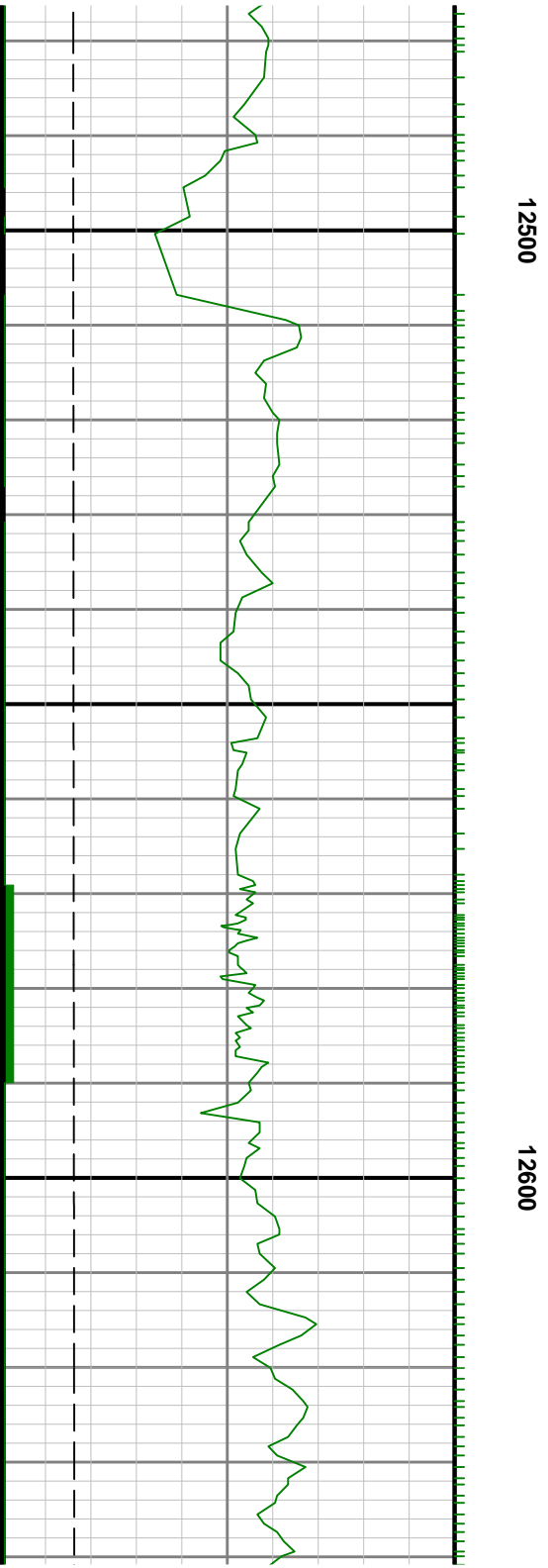


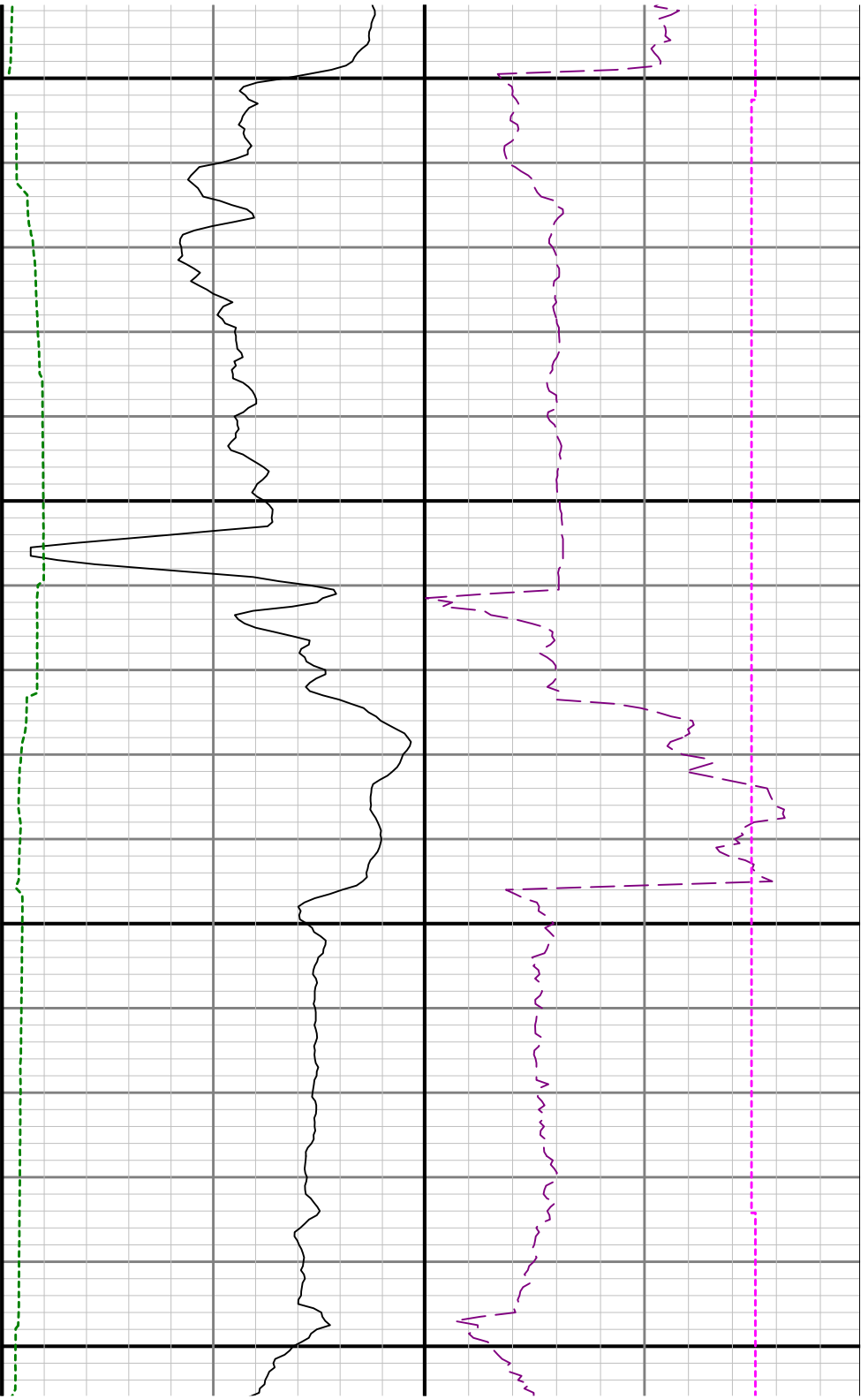




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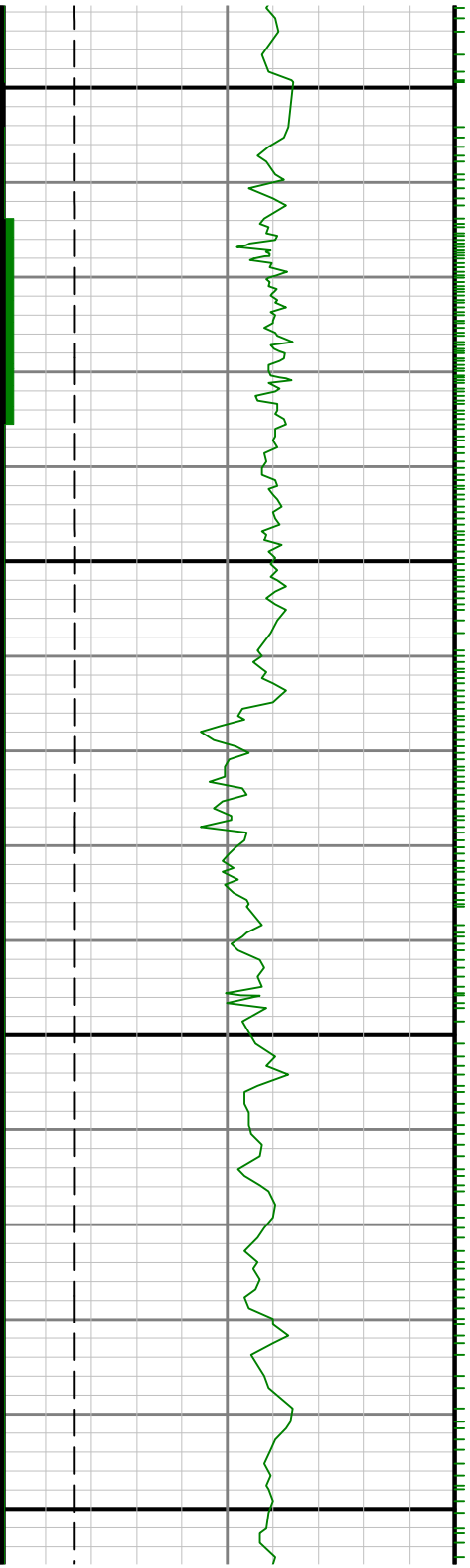


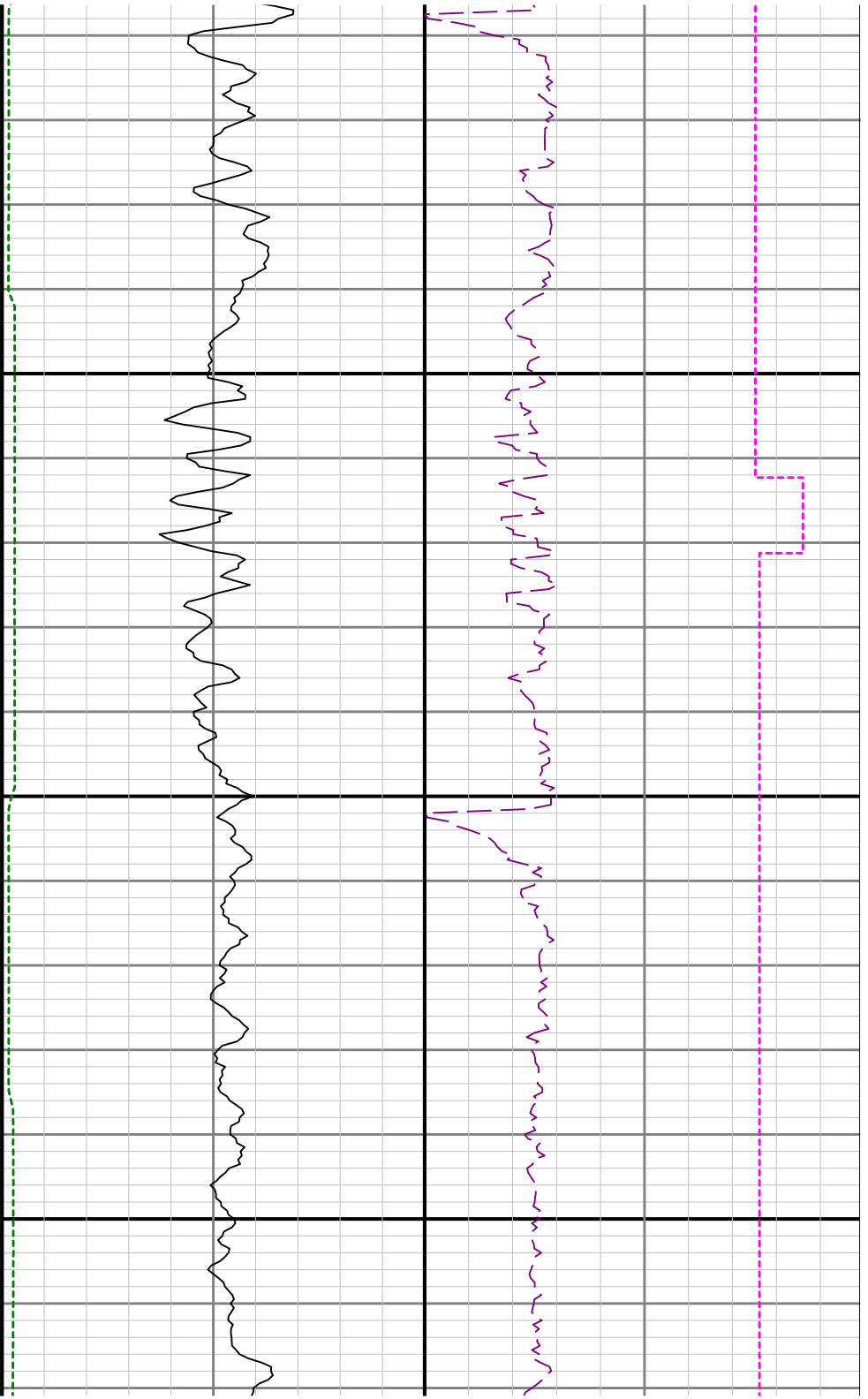




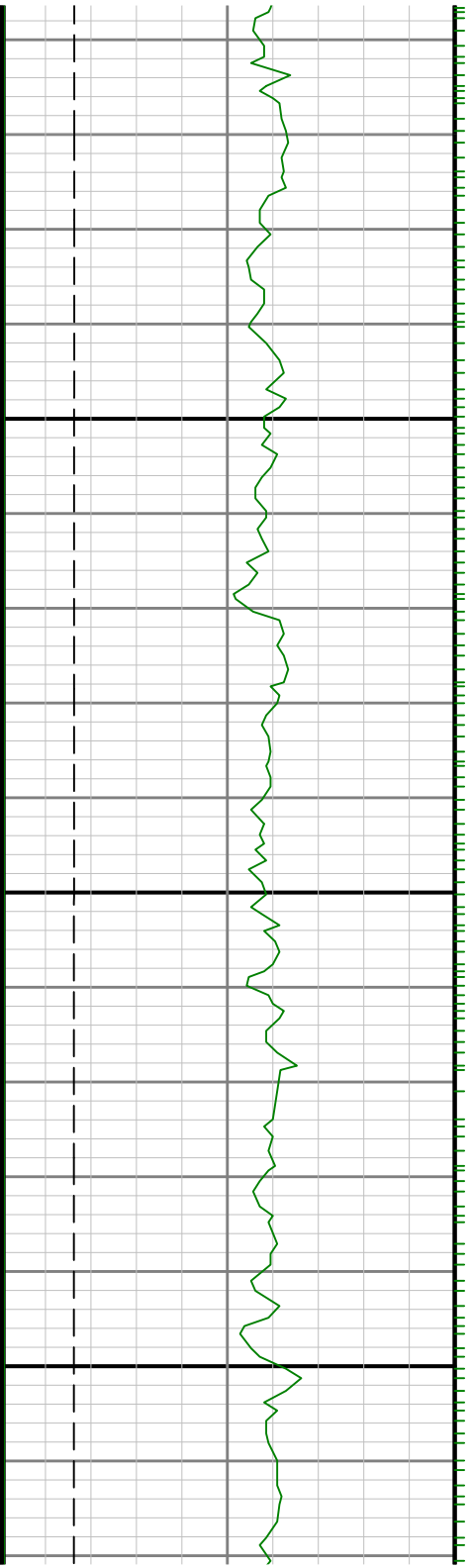
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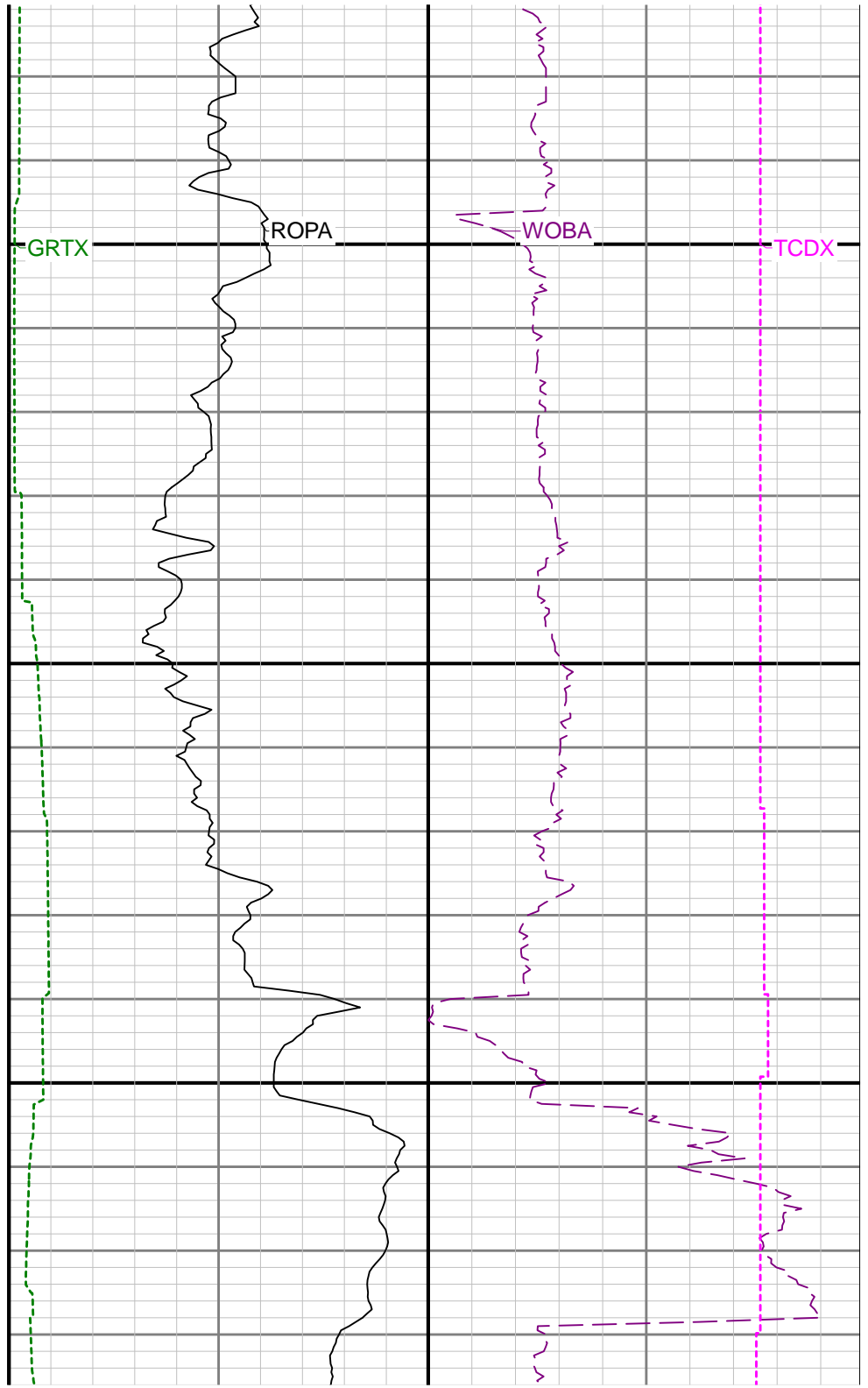
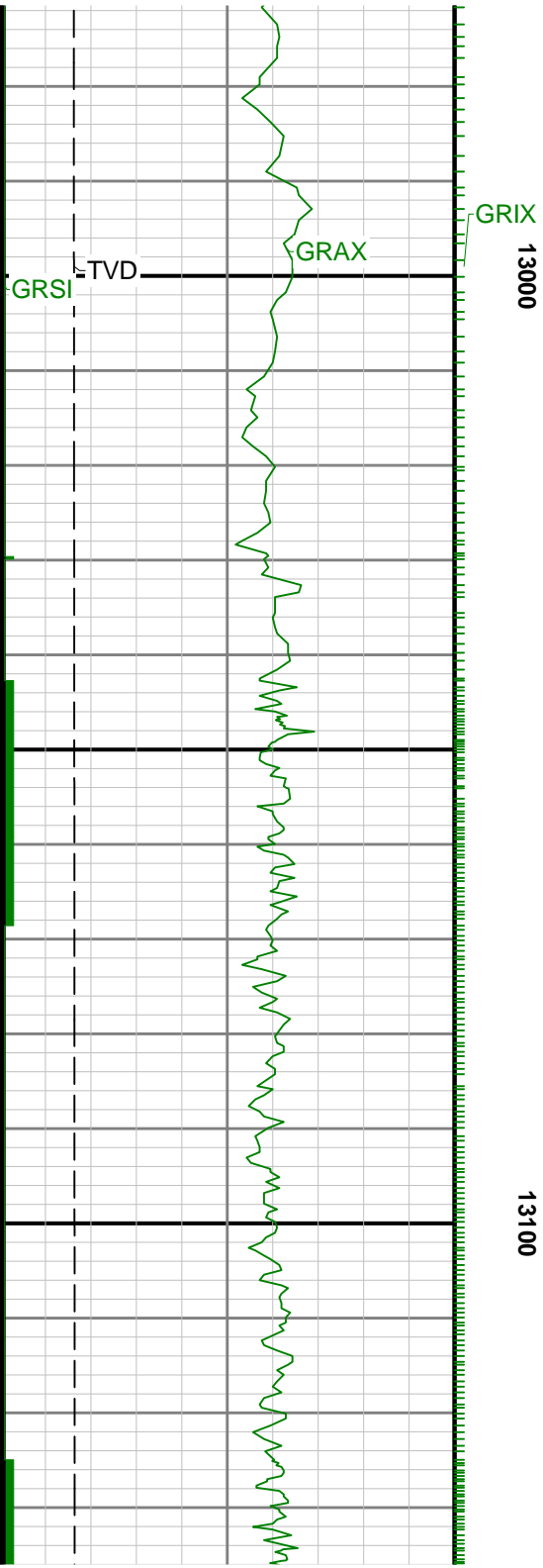
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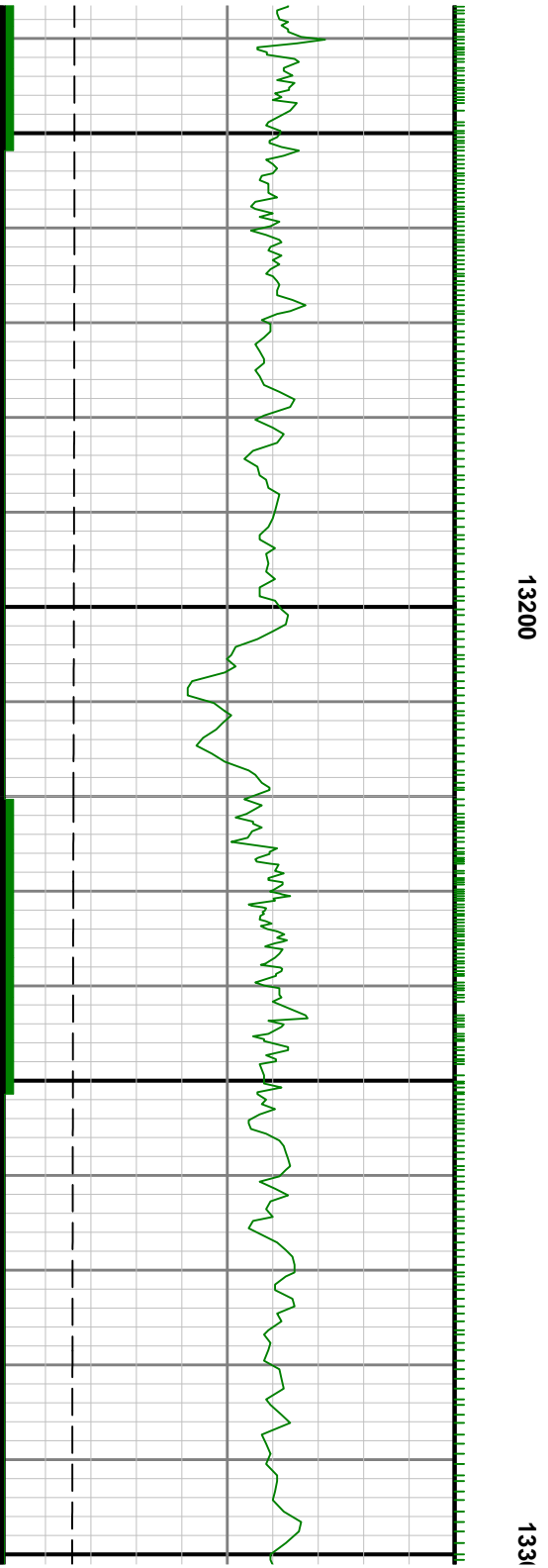
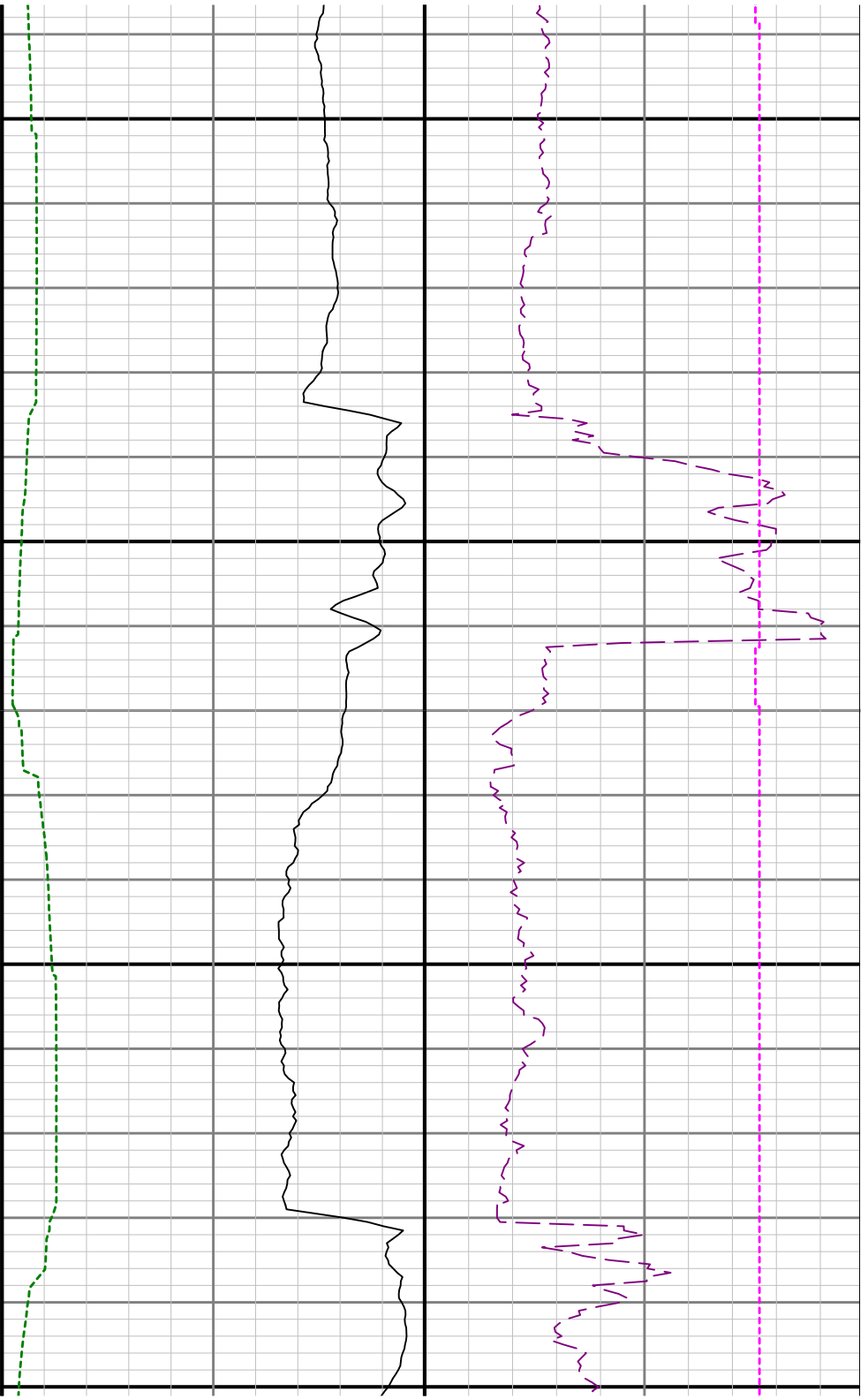




12900









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13400

