



# REAL TIME LOG

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## 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.
						Top	Bottom	From	To	Start Logging	End Logging	Hours
						(ft)	(ft)	(ft)	(ft)			(h)
1	1	8.500	PDC	3.00	Motor	1882.66	12627.93	1924.00	12669.00	2015-12-12 19:06	2015-12-14 18:34	43.06

## Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Scott Sims	2015-12-08	2015-12-15	Sumanth Belawadi	2015-12-08	2015-12-15			

## 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+ (%)
2015-12-14 03:45	1	9996.69	Diesel-Oil Based Mud	8.8	61	0	4.2	70/30	Flow Line	45000	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	6059	Gamma (single)	10.25	41.34	6.750	3.250
1	NaviGamma	6059	VSS	13.66	44.75	6.750	3.250
1	NaviGamma	6059	Directional (mag)	13.66	44.75	6.750	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 1859 to 12669 feet MD (1829.68 to 7077.59 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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	(ft)	(in)		
1	6500.00	8.500	1	Logging services began at 6500 feet MD. No logging data prior to 6500 feet MD (6369.81 TVD) as per client request.
2	12667.52	8.500	1	No GRAX, GRIX and GRTX from 12628 to 12669 feet MD ( 7078' to 7077.59 feet TVD) due to sensor to bit offset.

Curve Mnemonics

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



Company

Well

Interval

Created

Anadarko

Cook 2N-16HZ

Date From:

2015-12-13 01:17

Date To:

2015-12-14 11:34

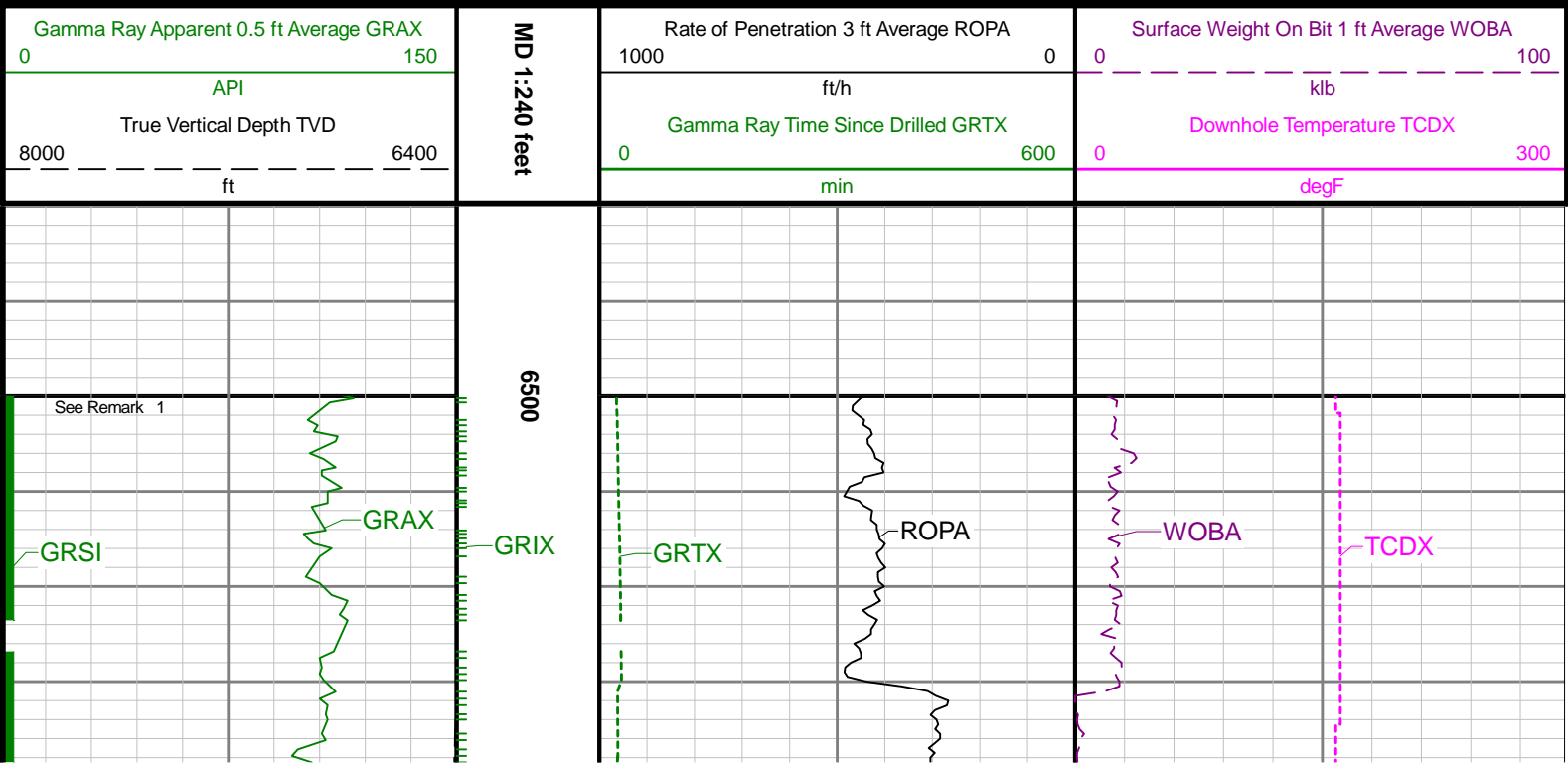
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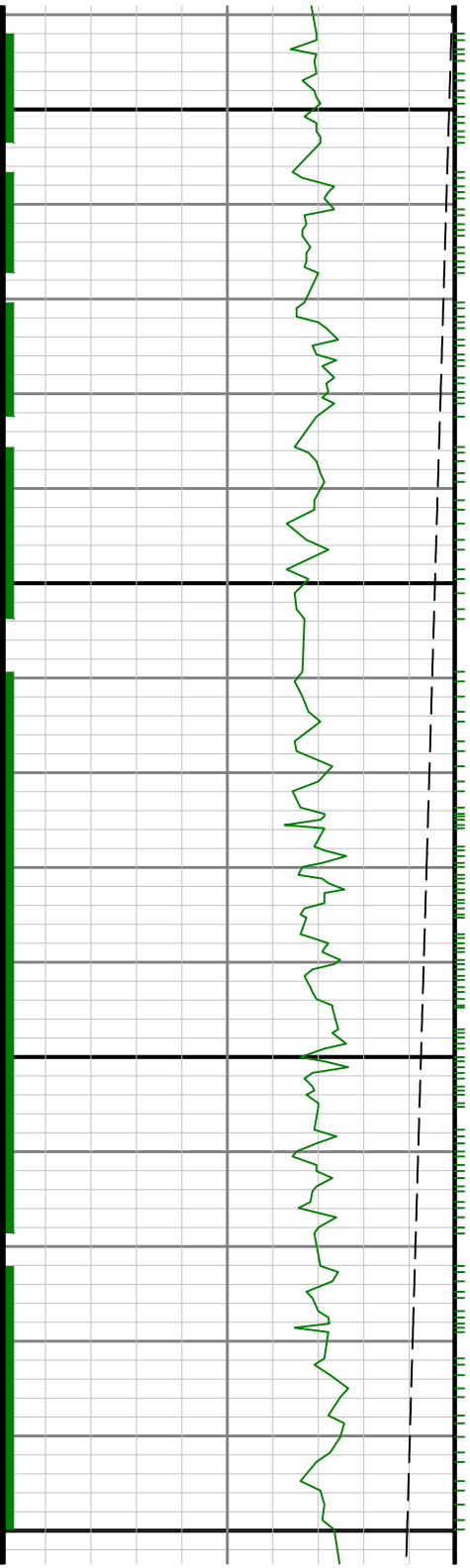
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12669.00

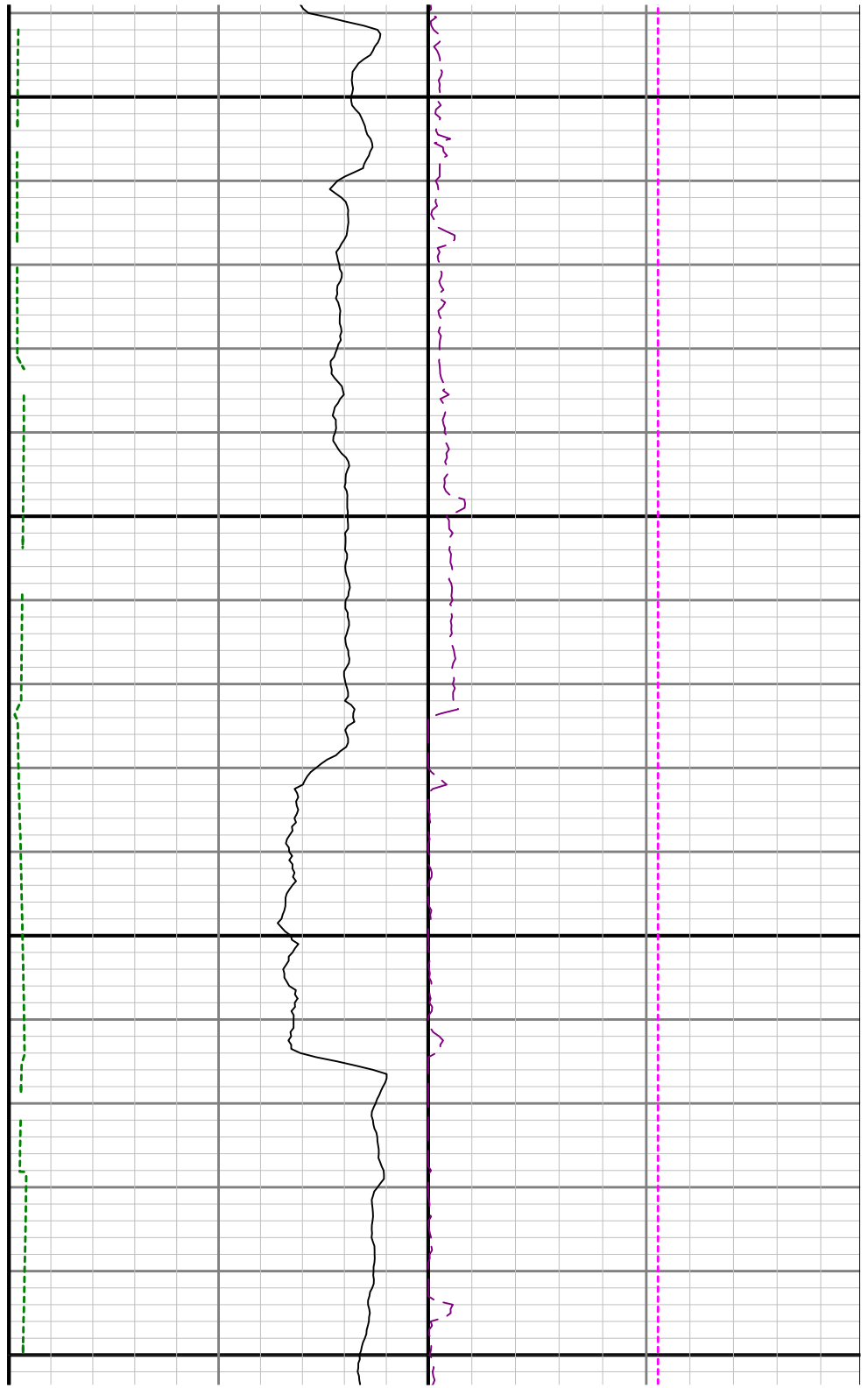
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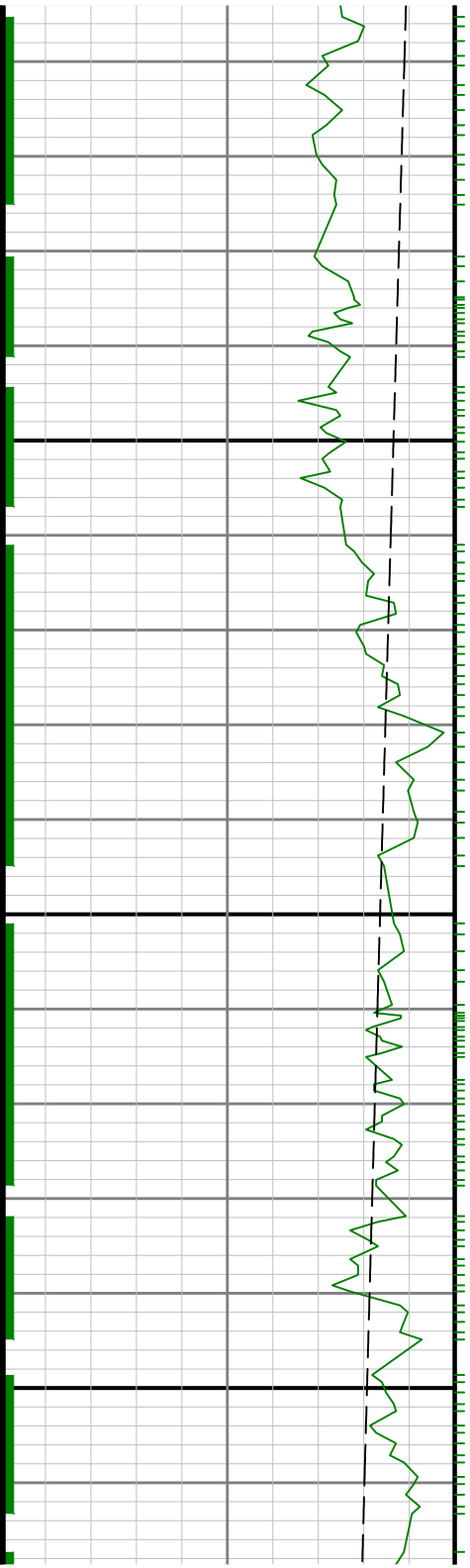




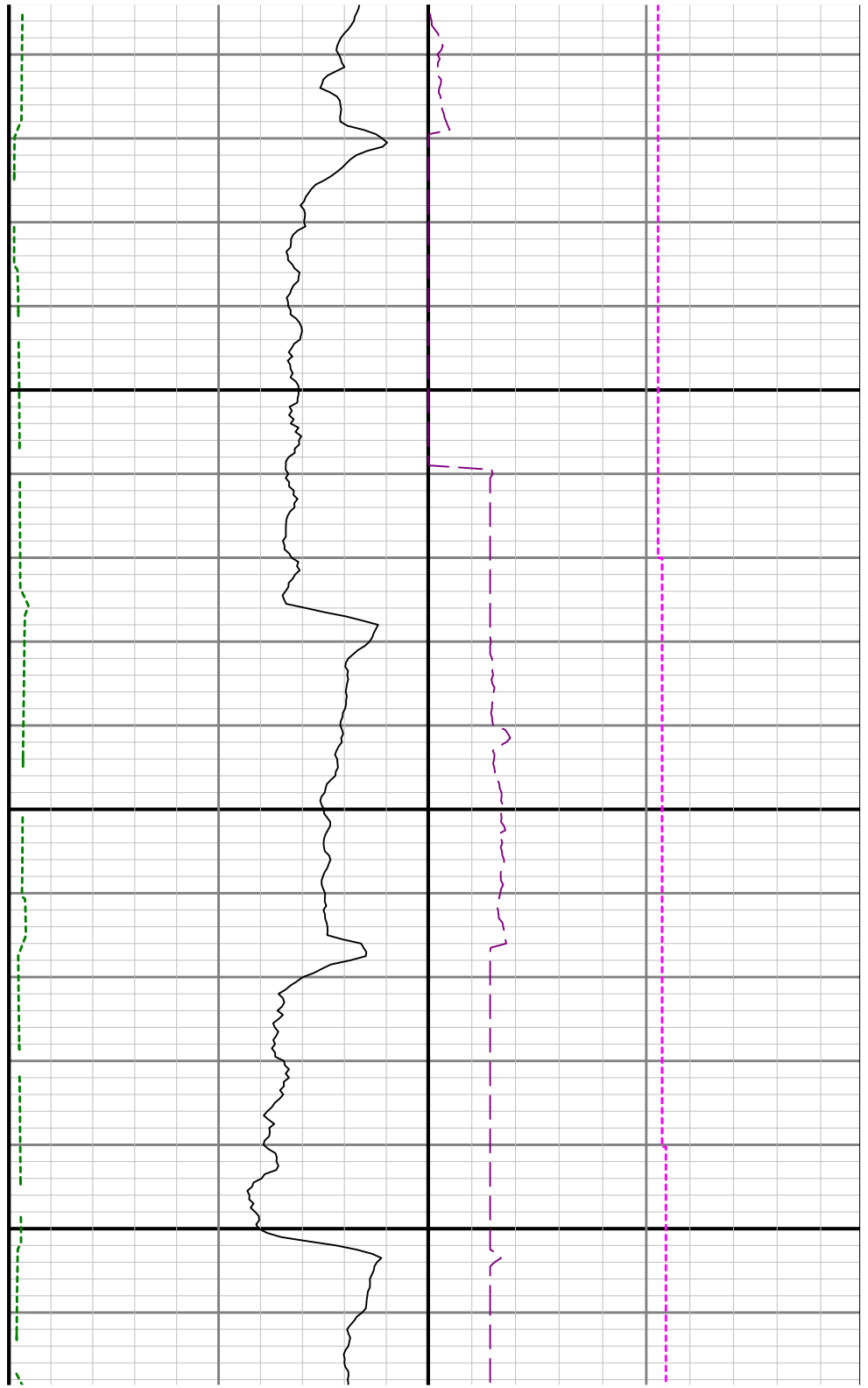
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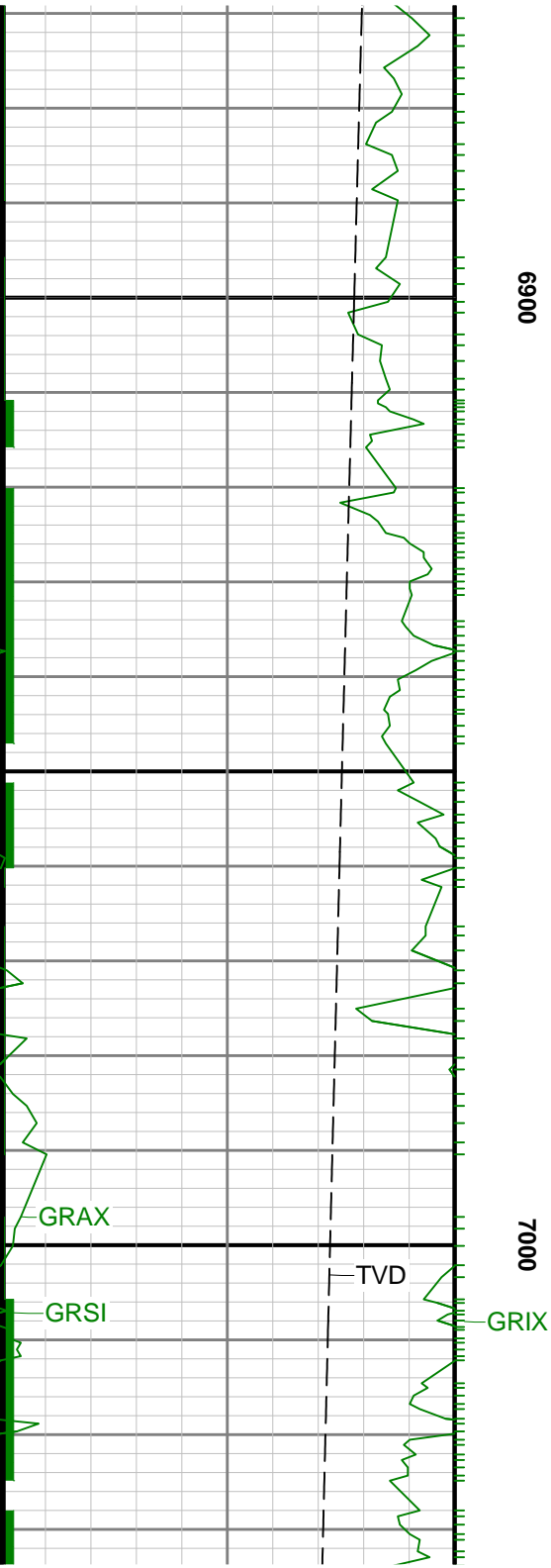
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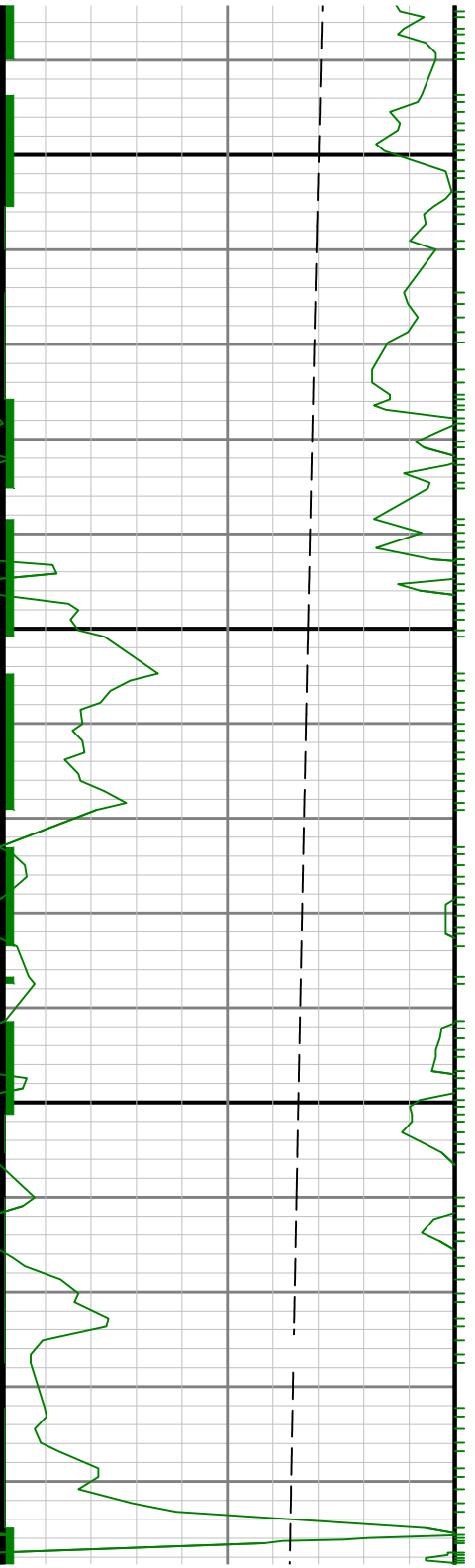


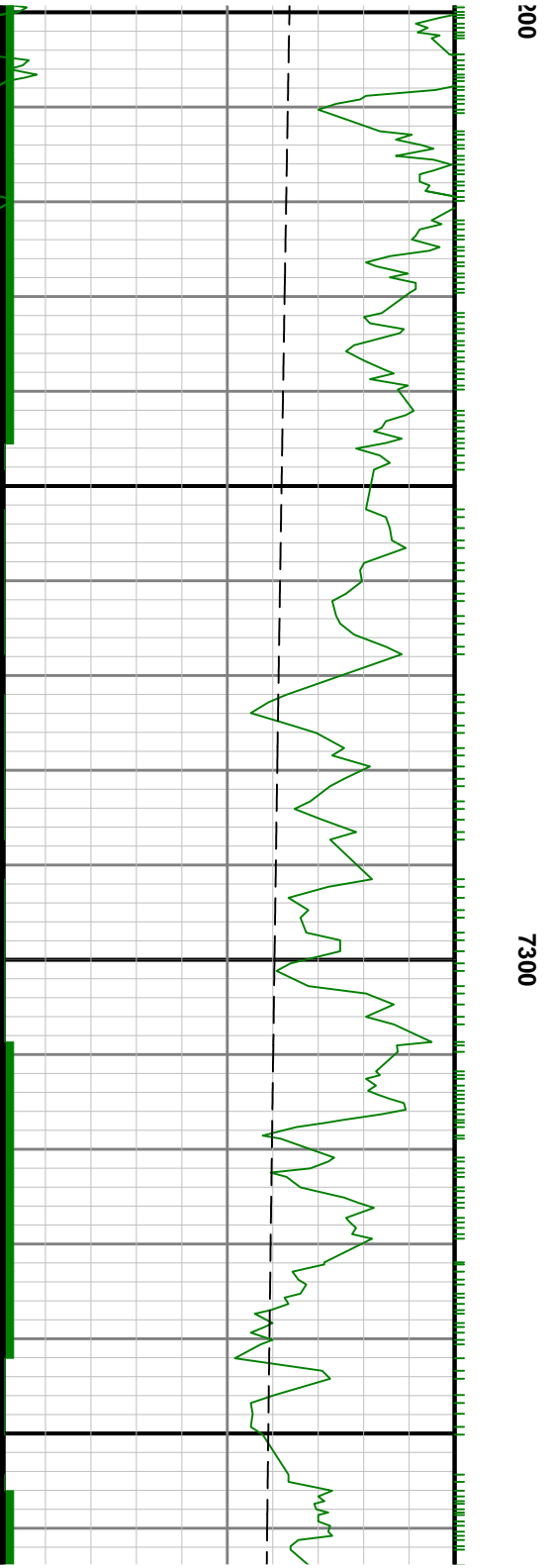
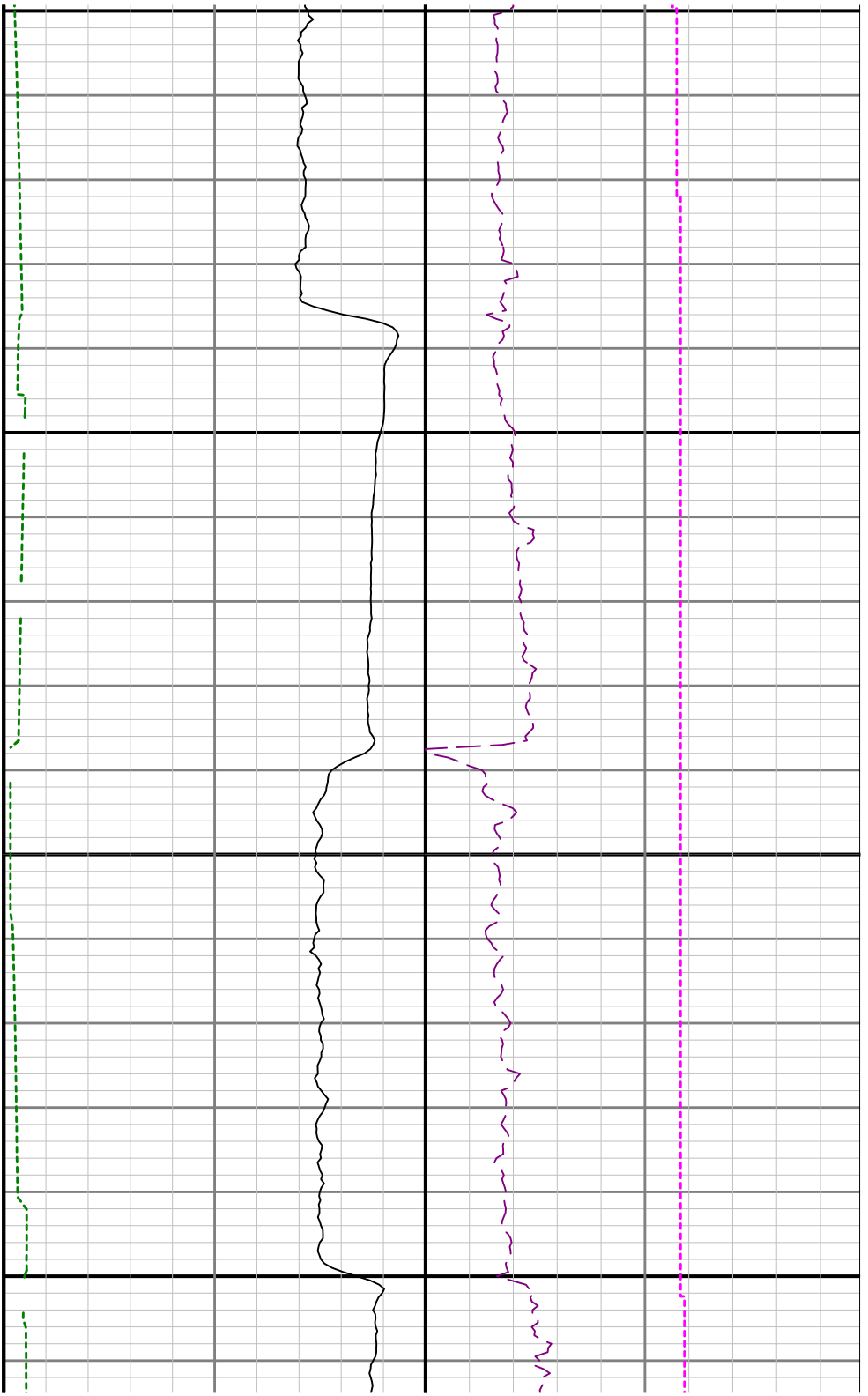




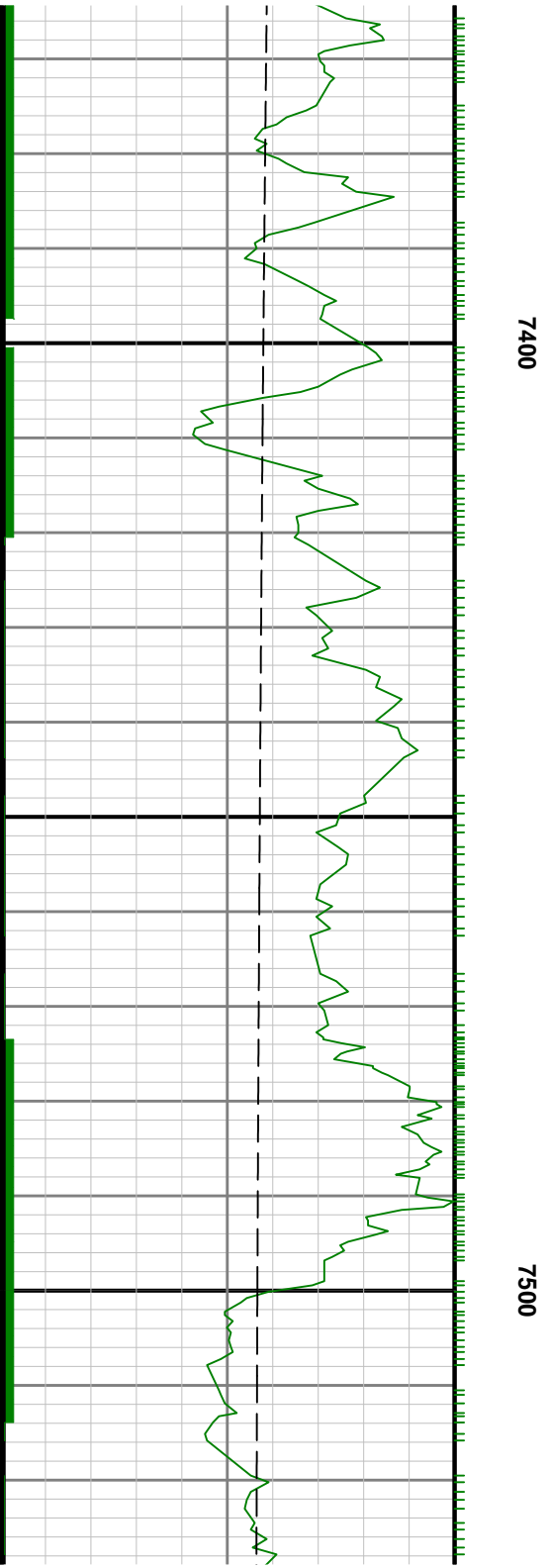
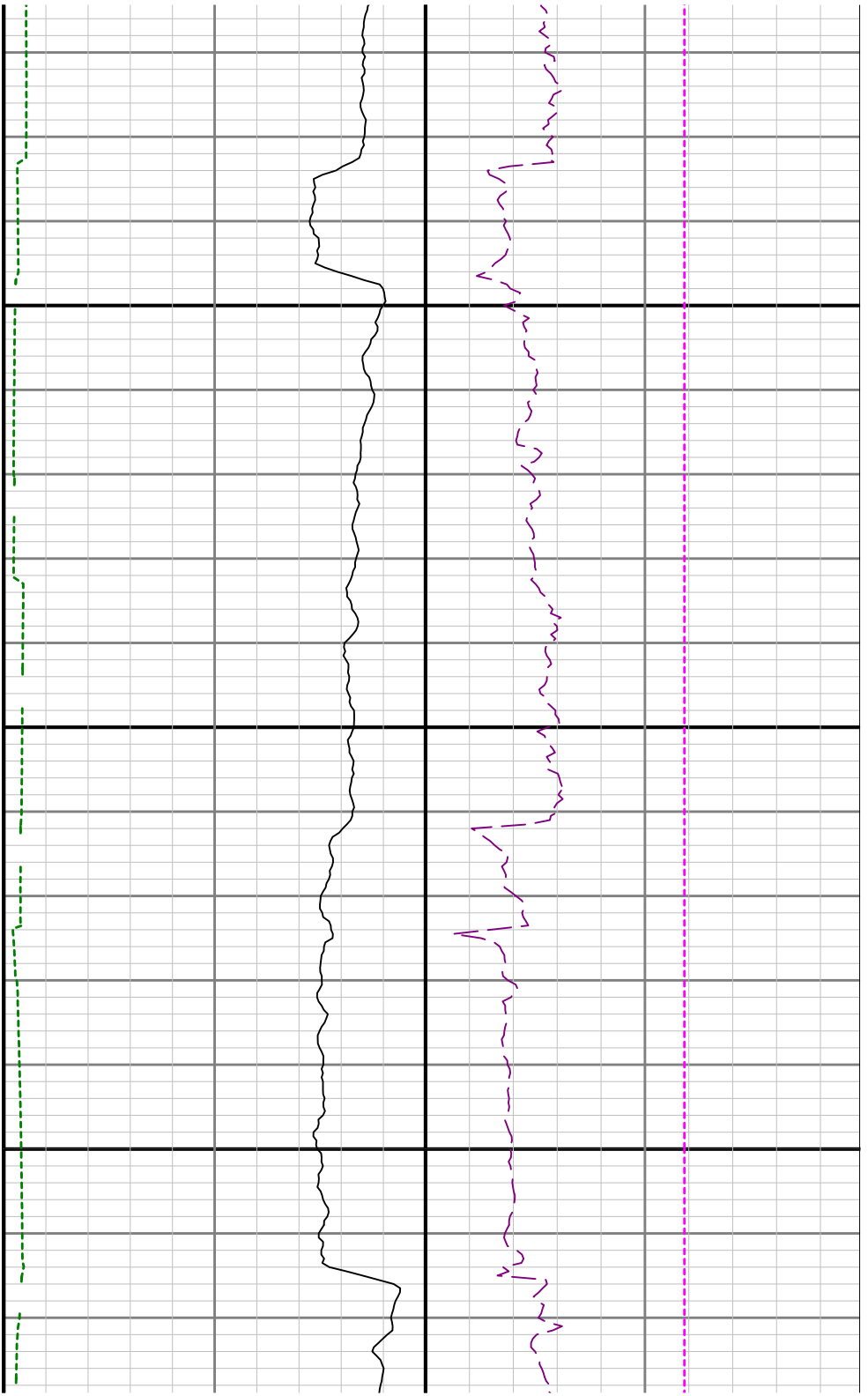
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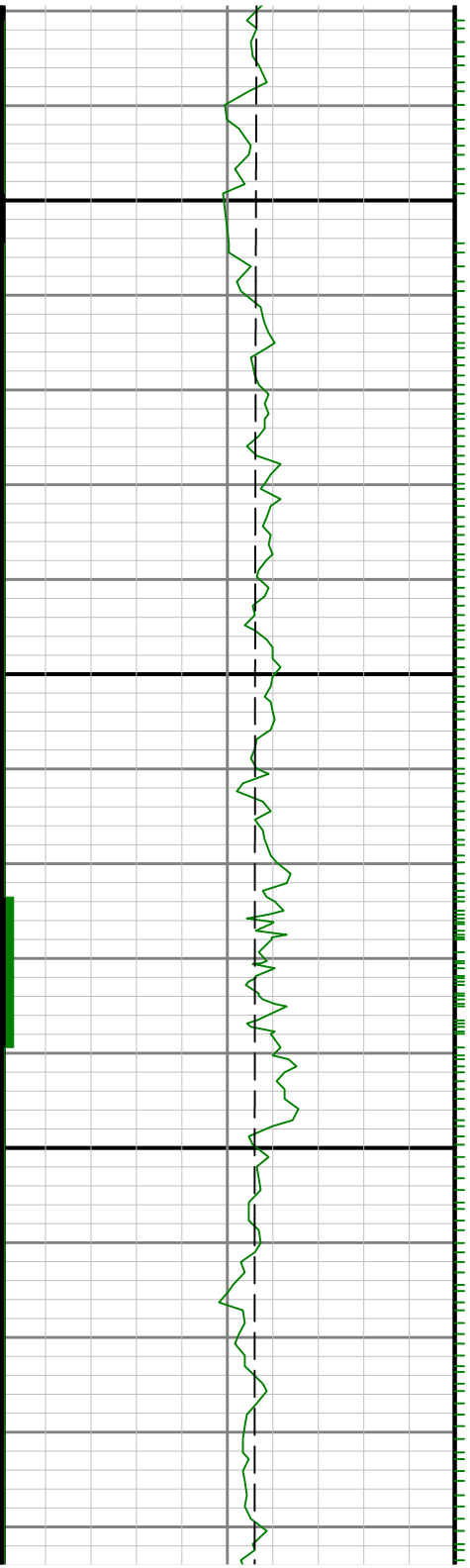
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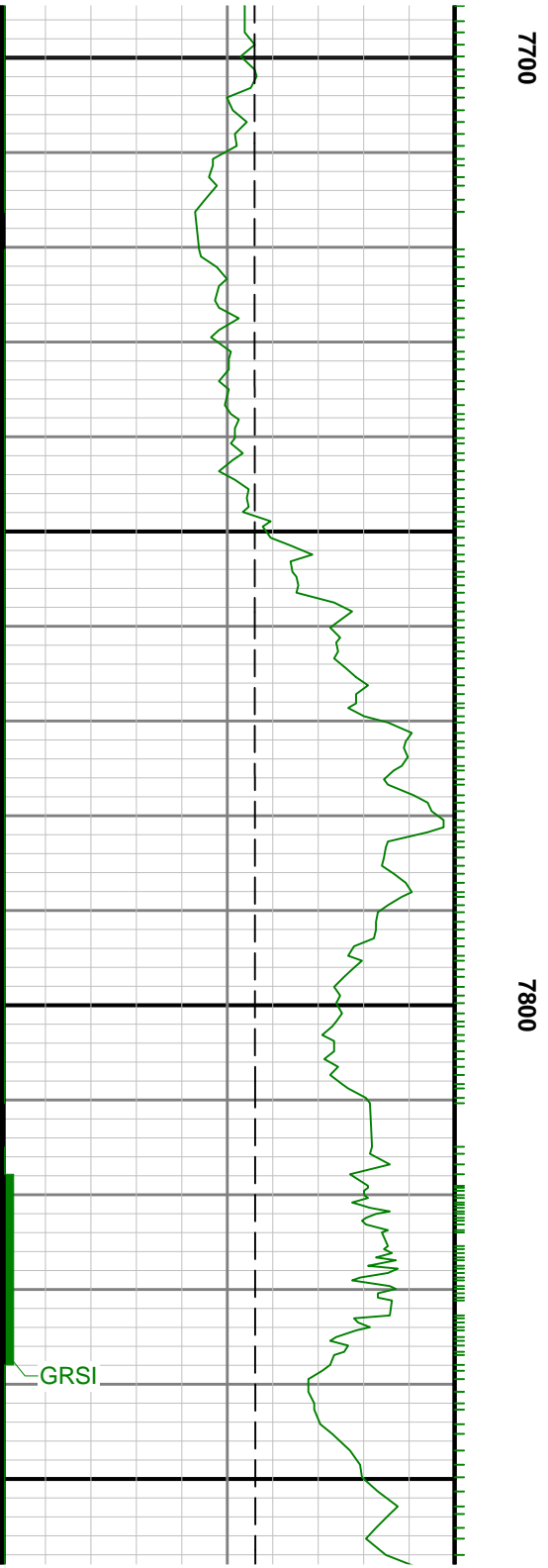
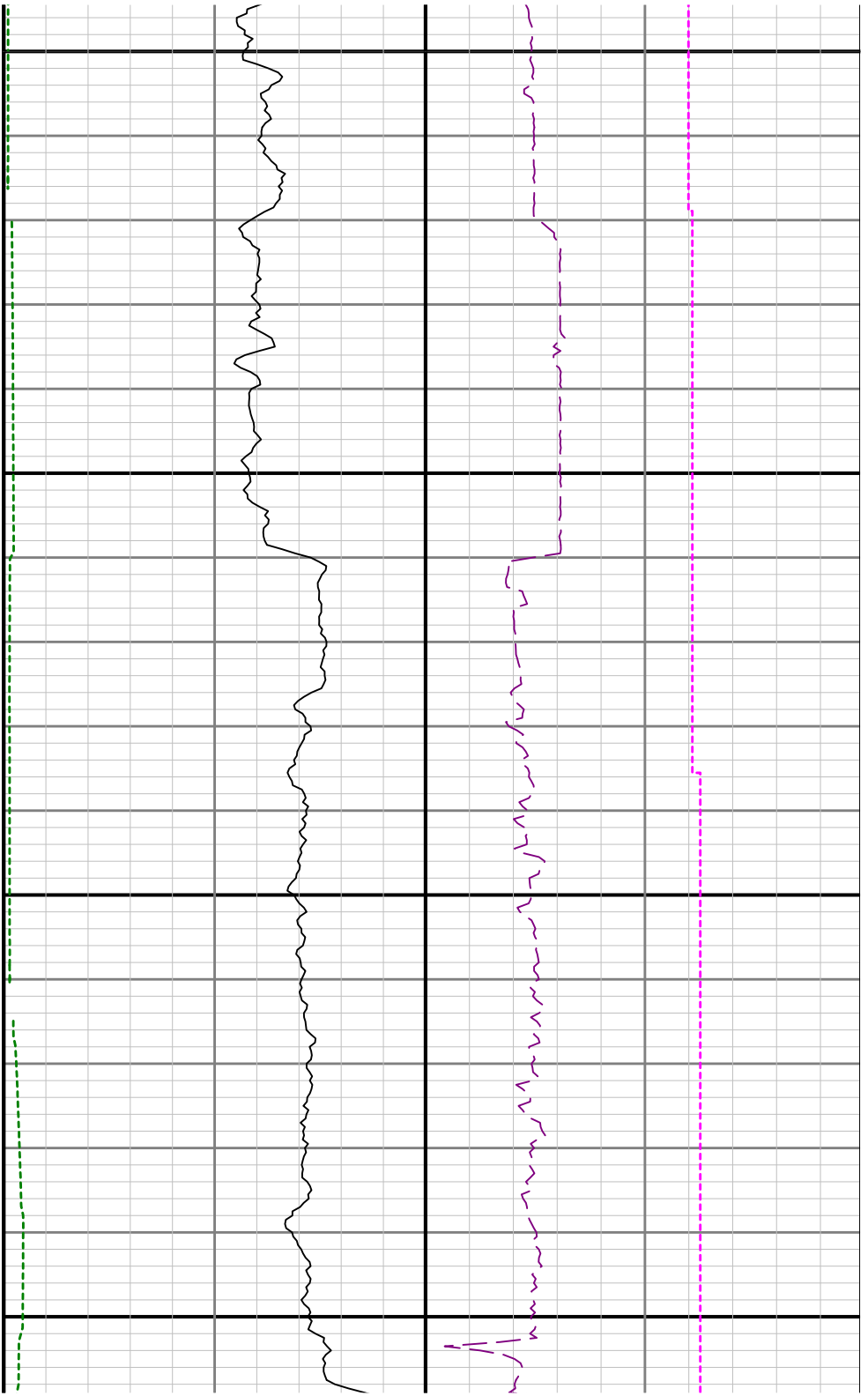


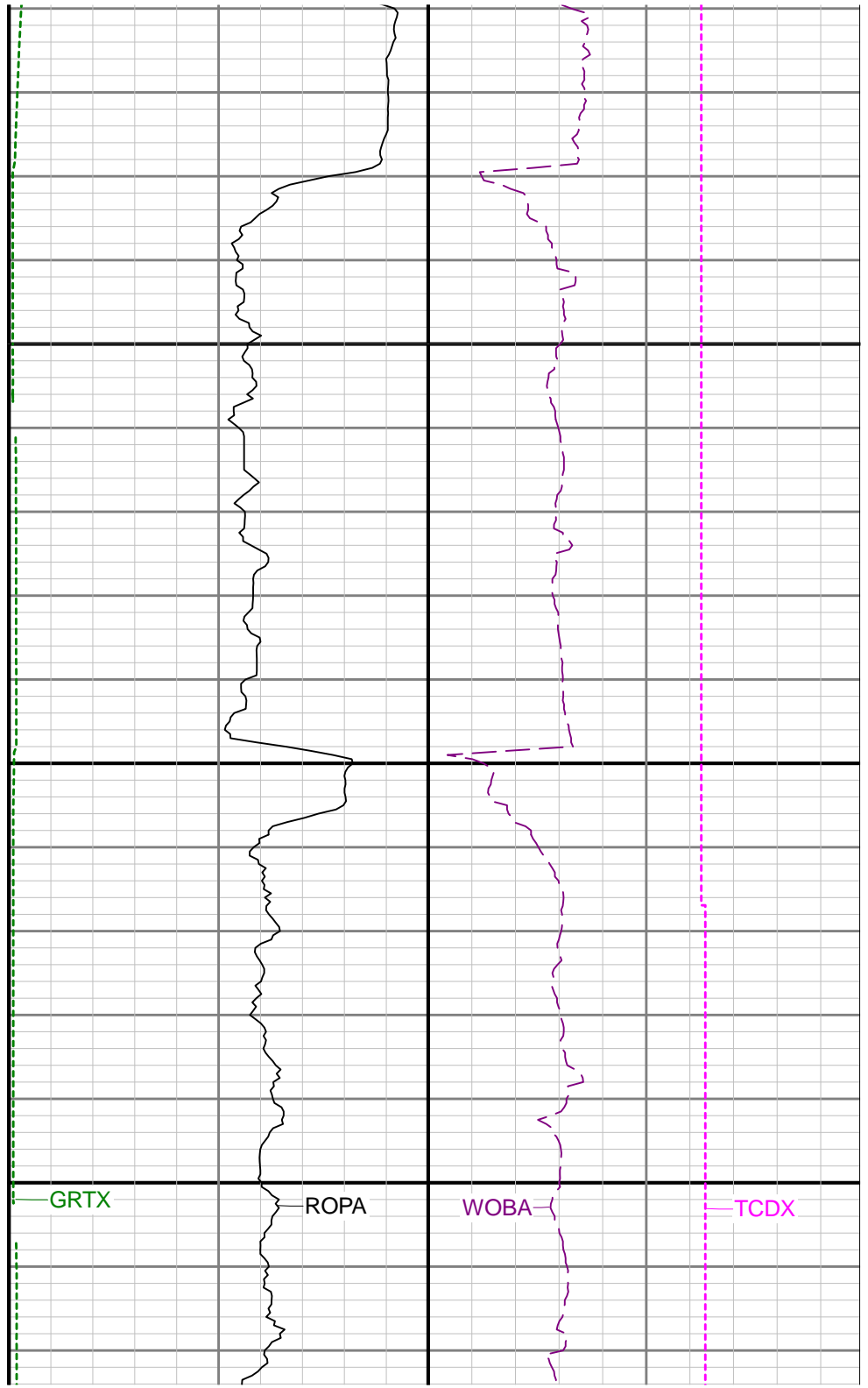
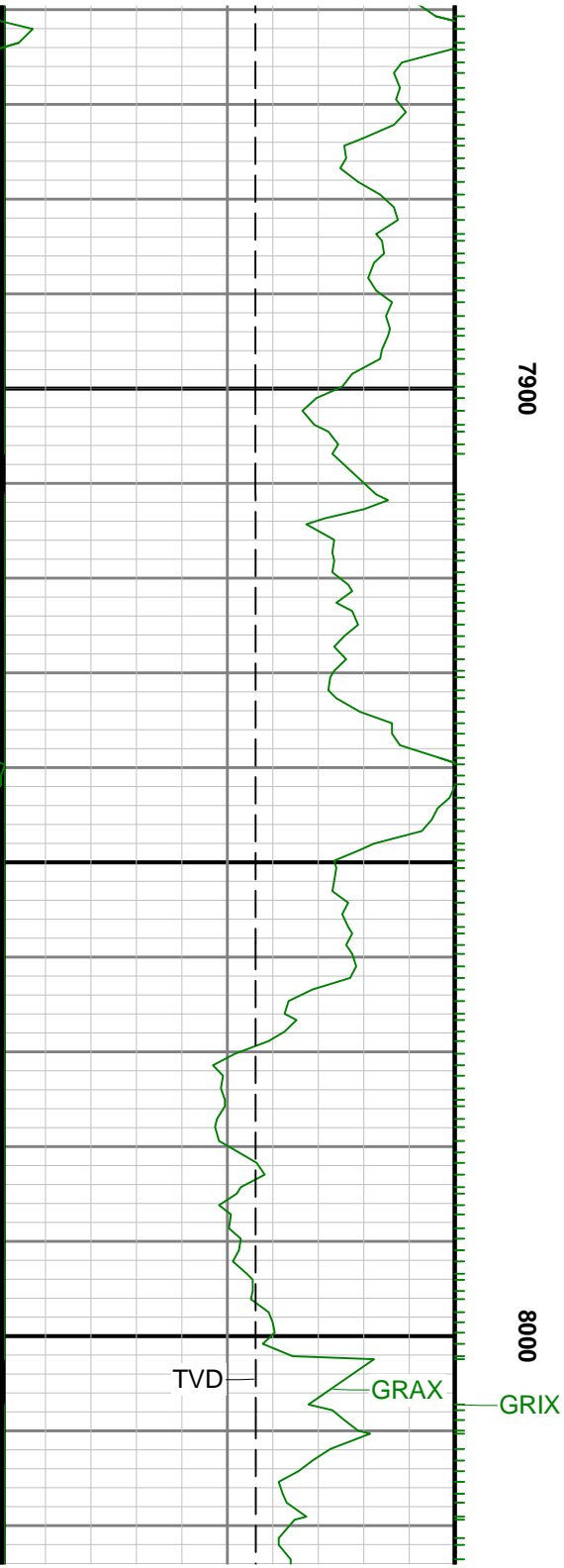


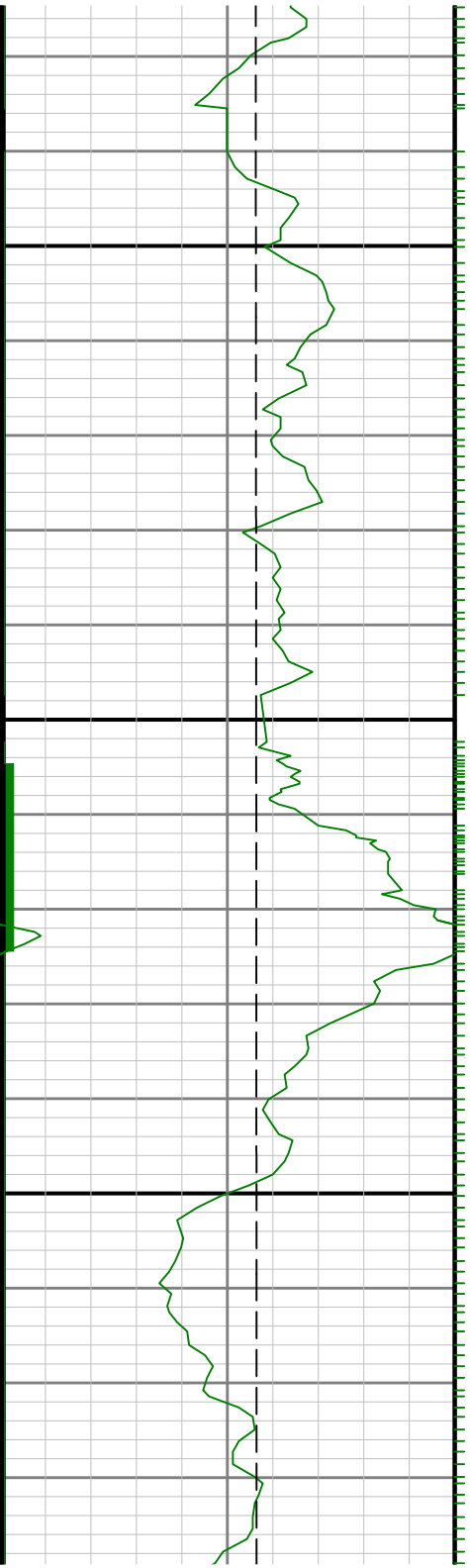


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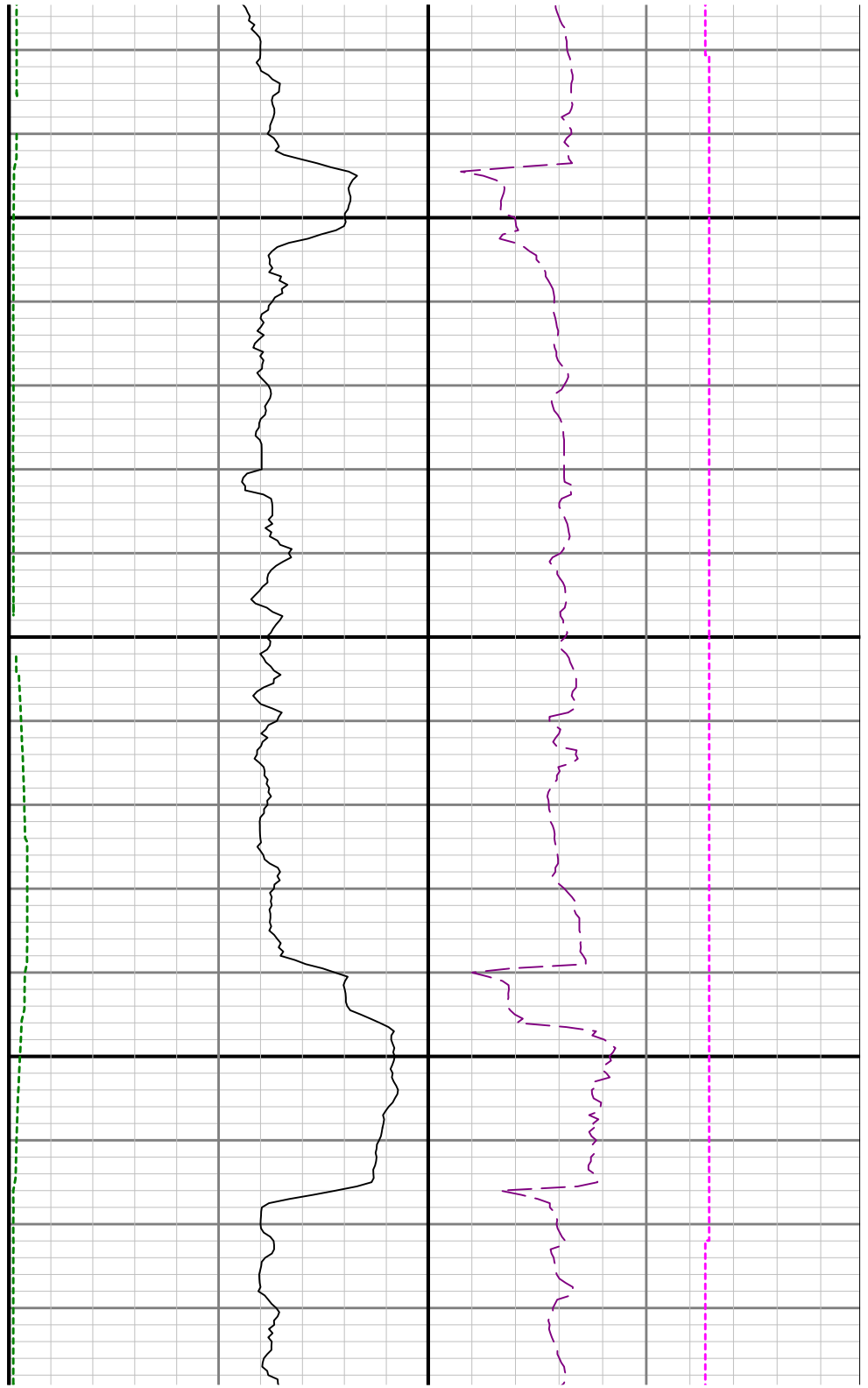


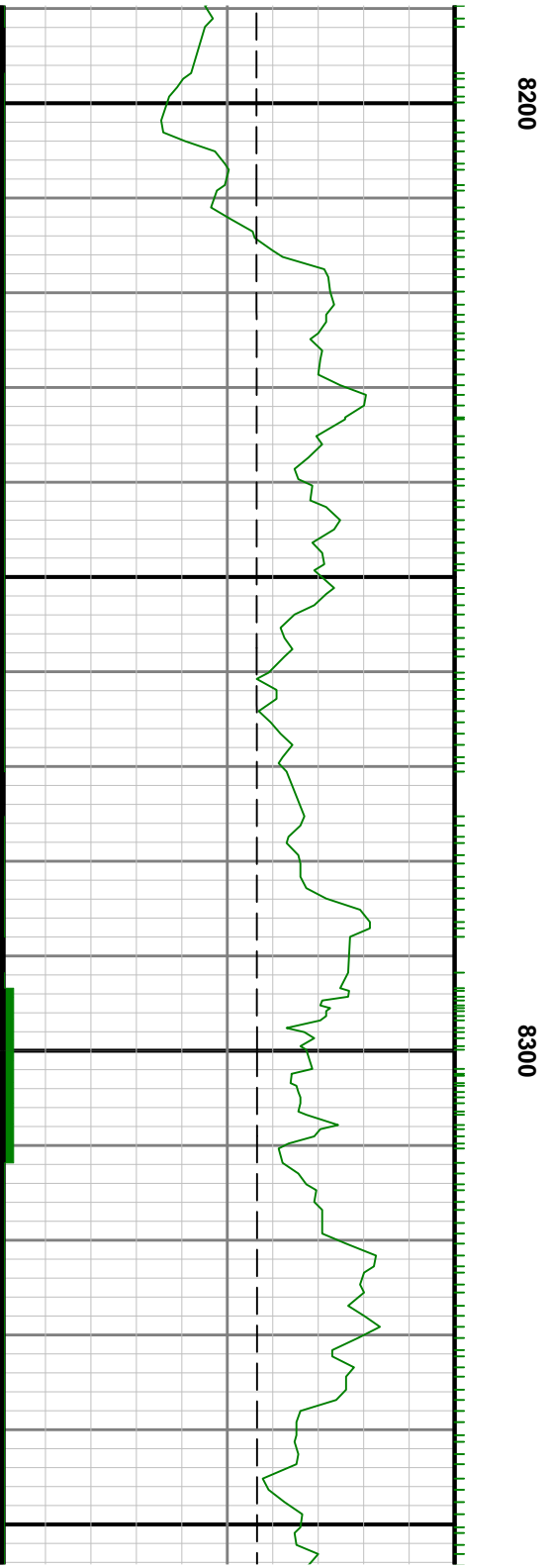
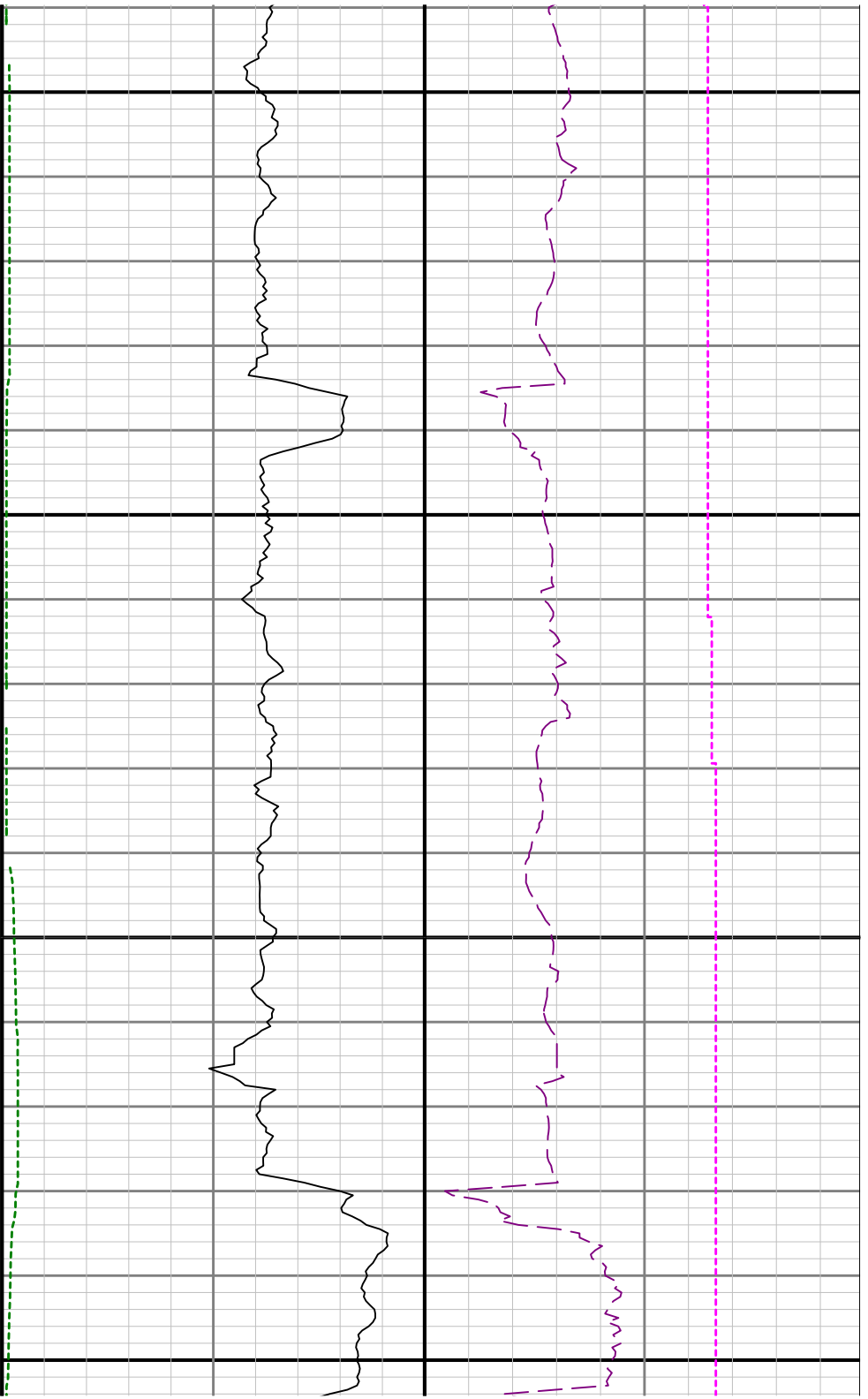


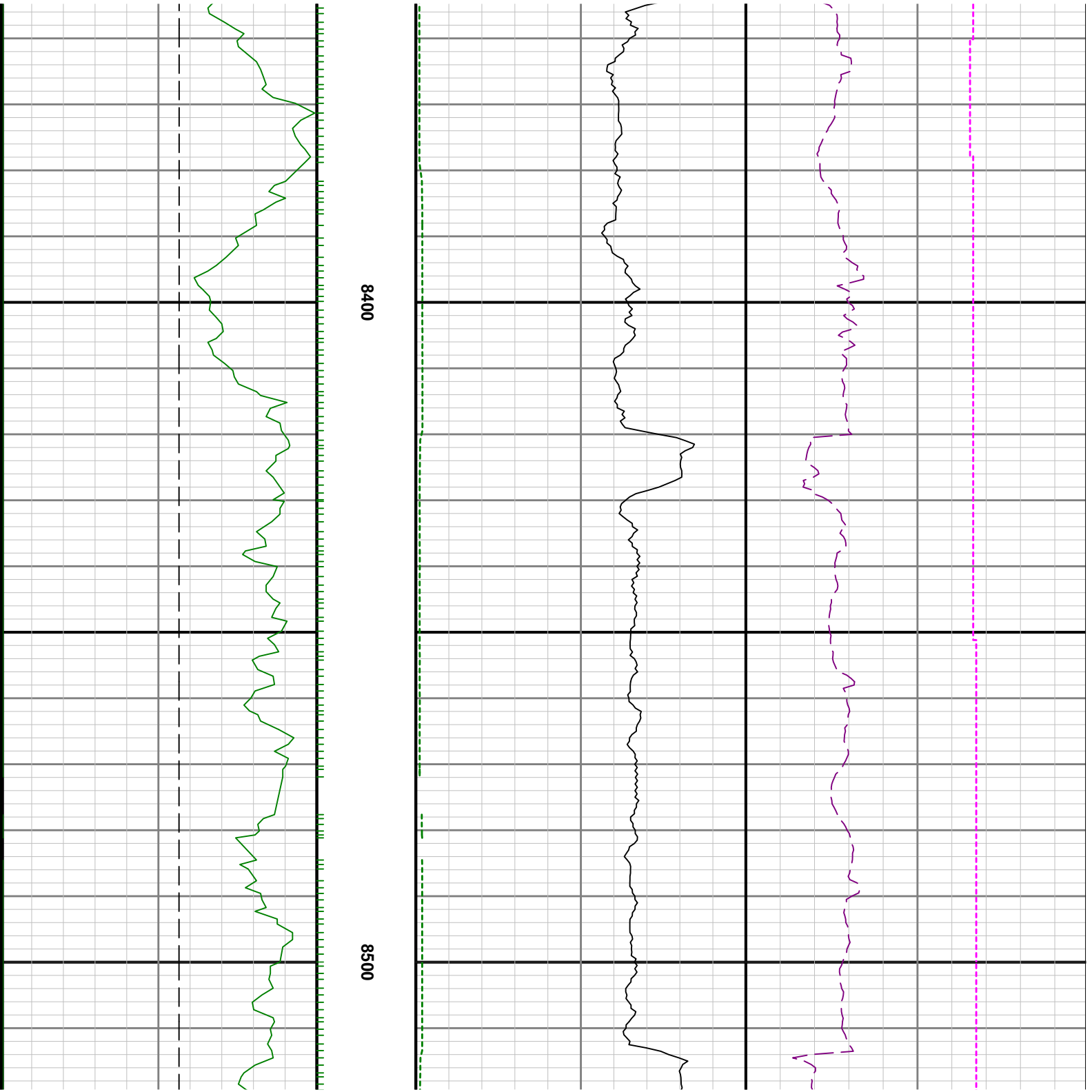


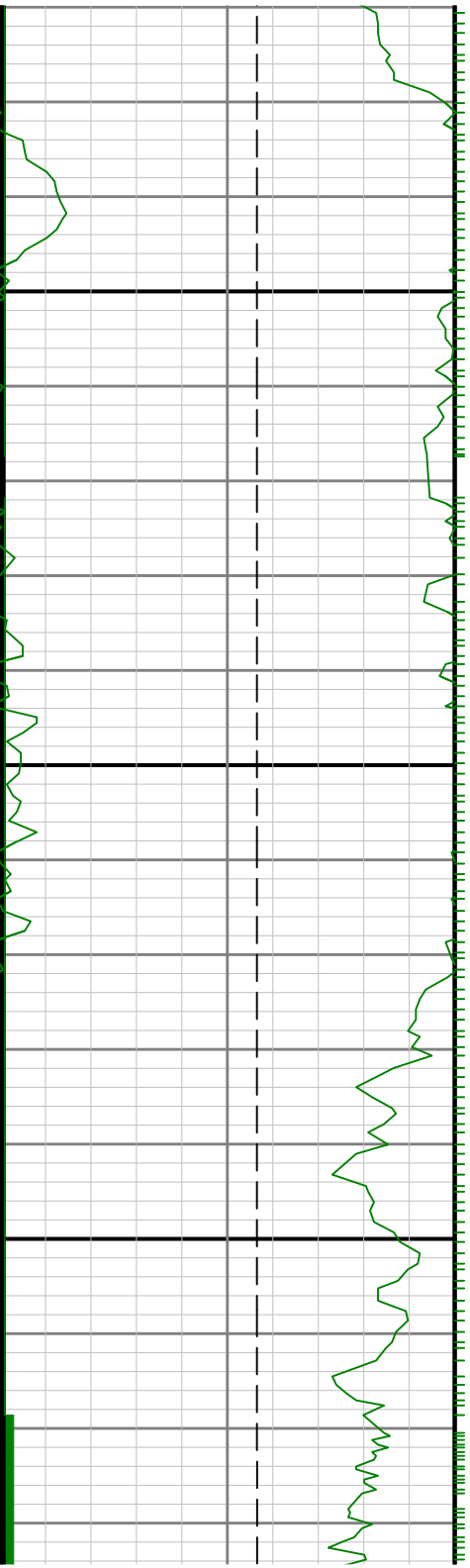


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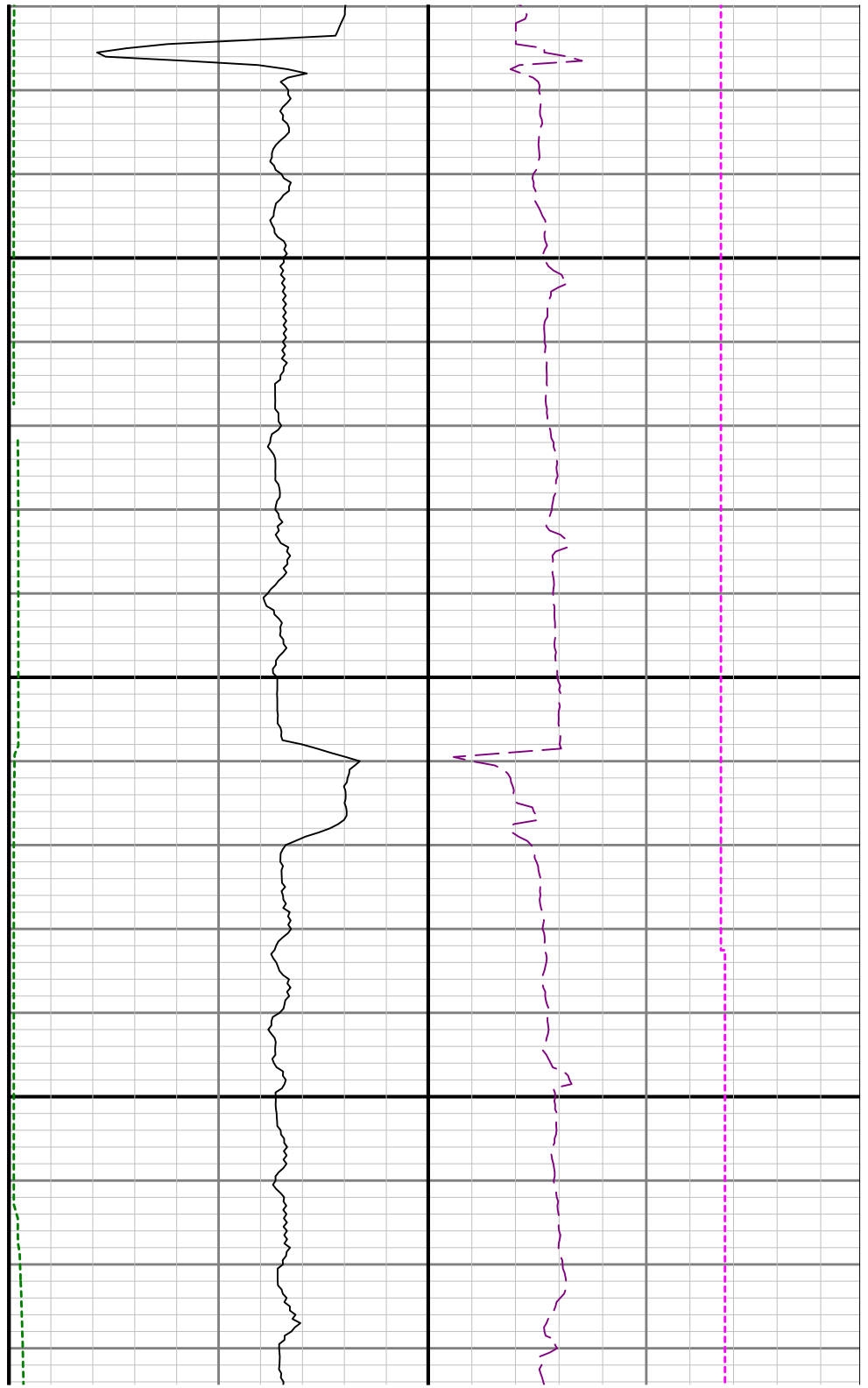




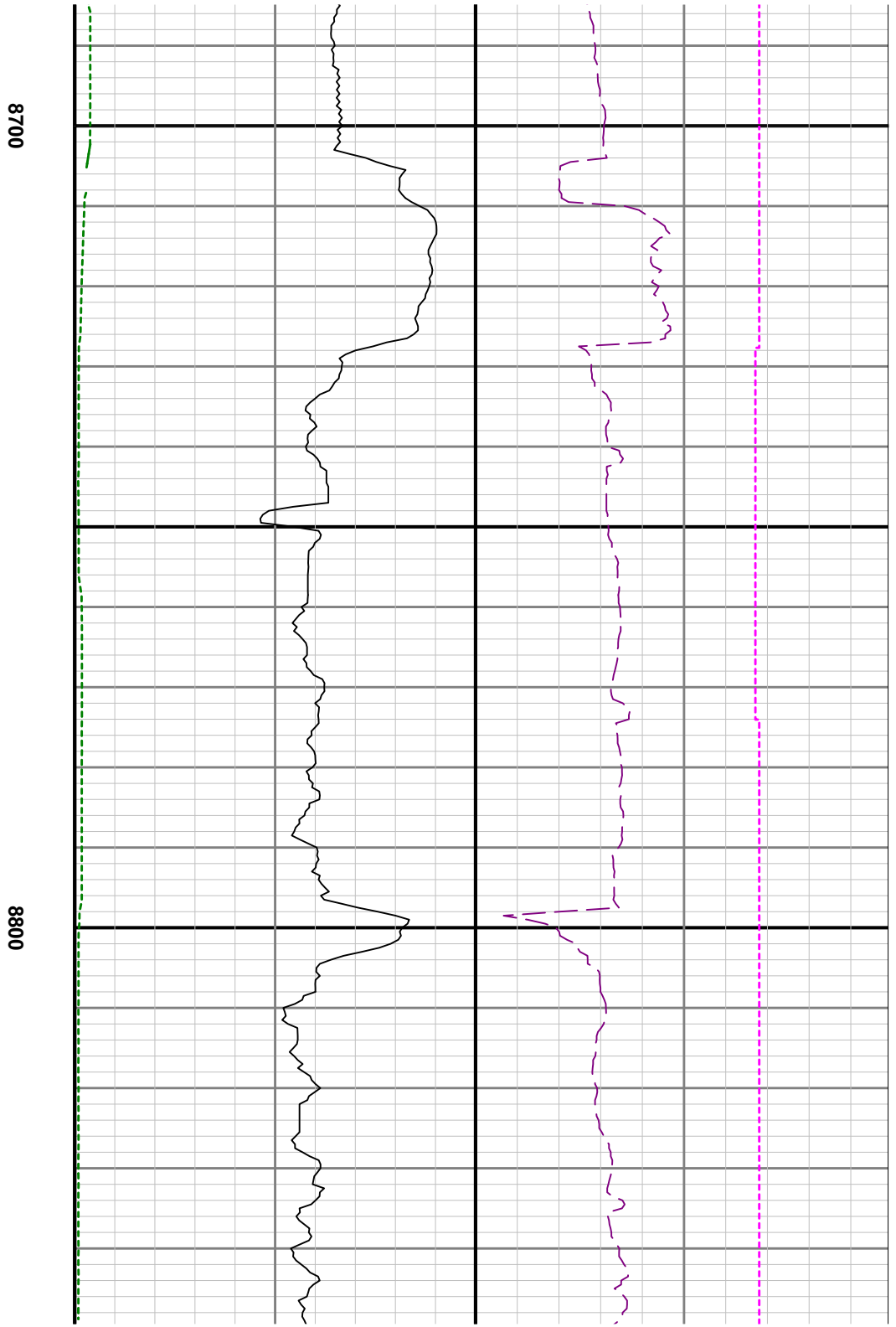
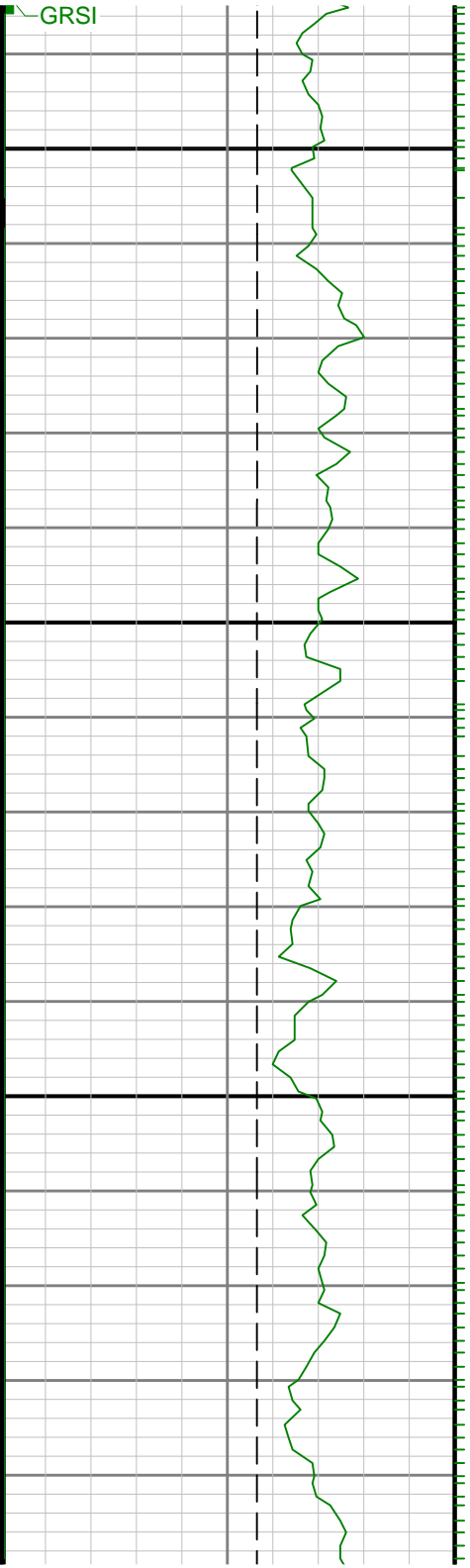


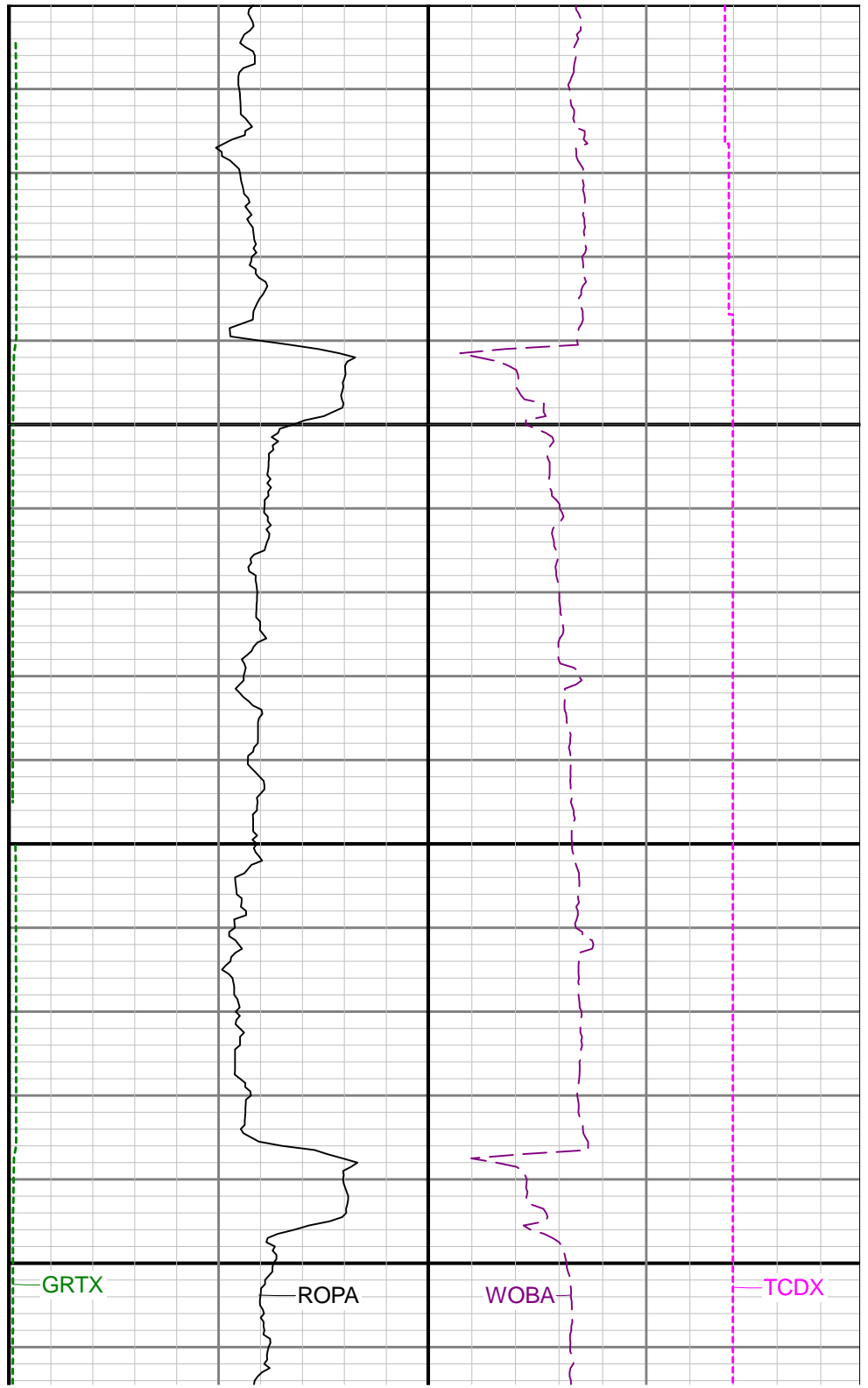
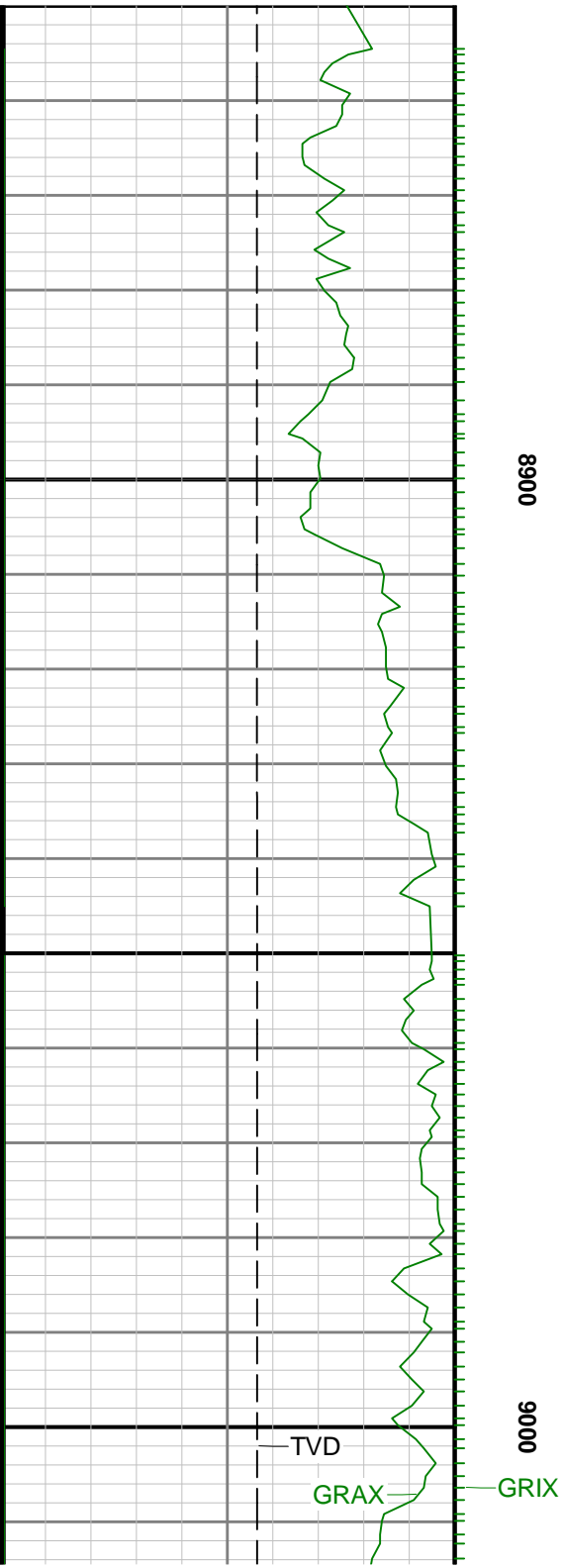


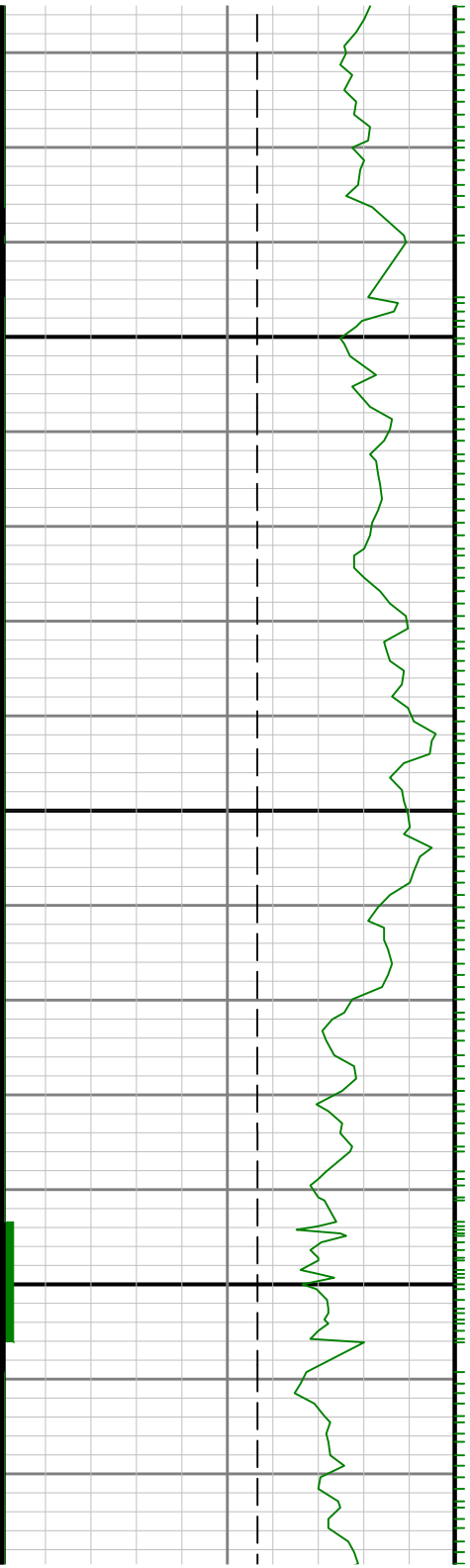
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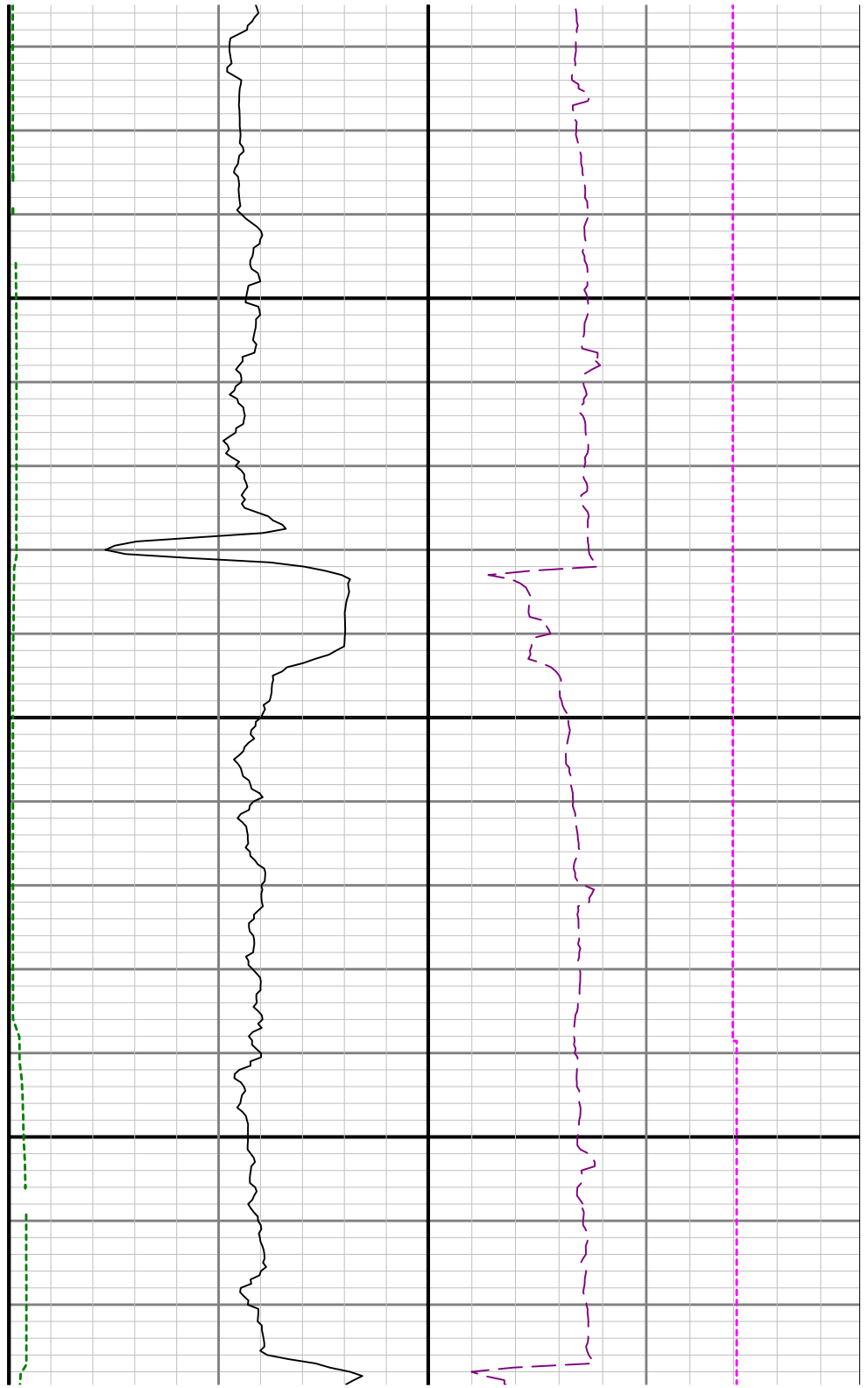


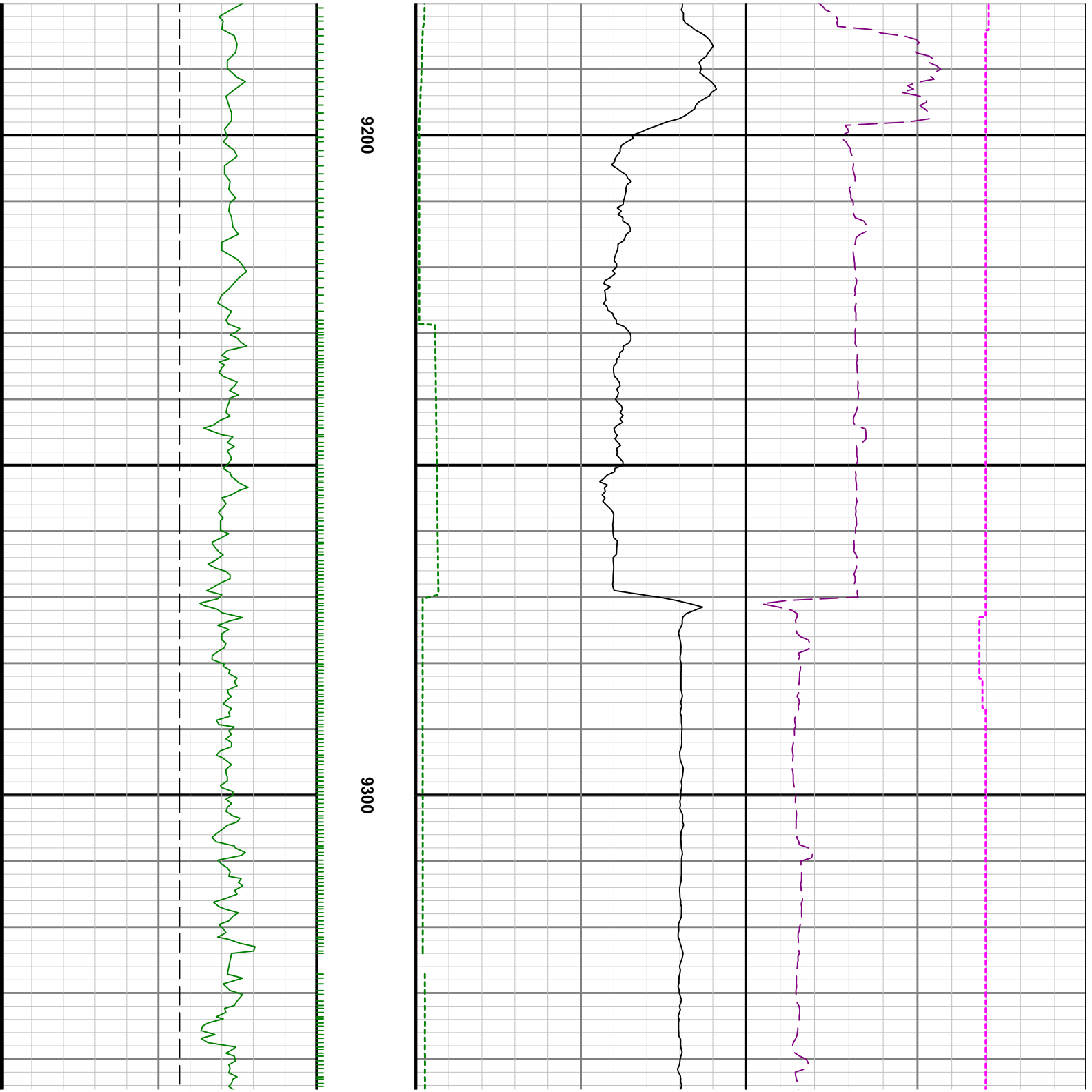


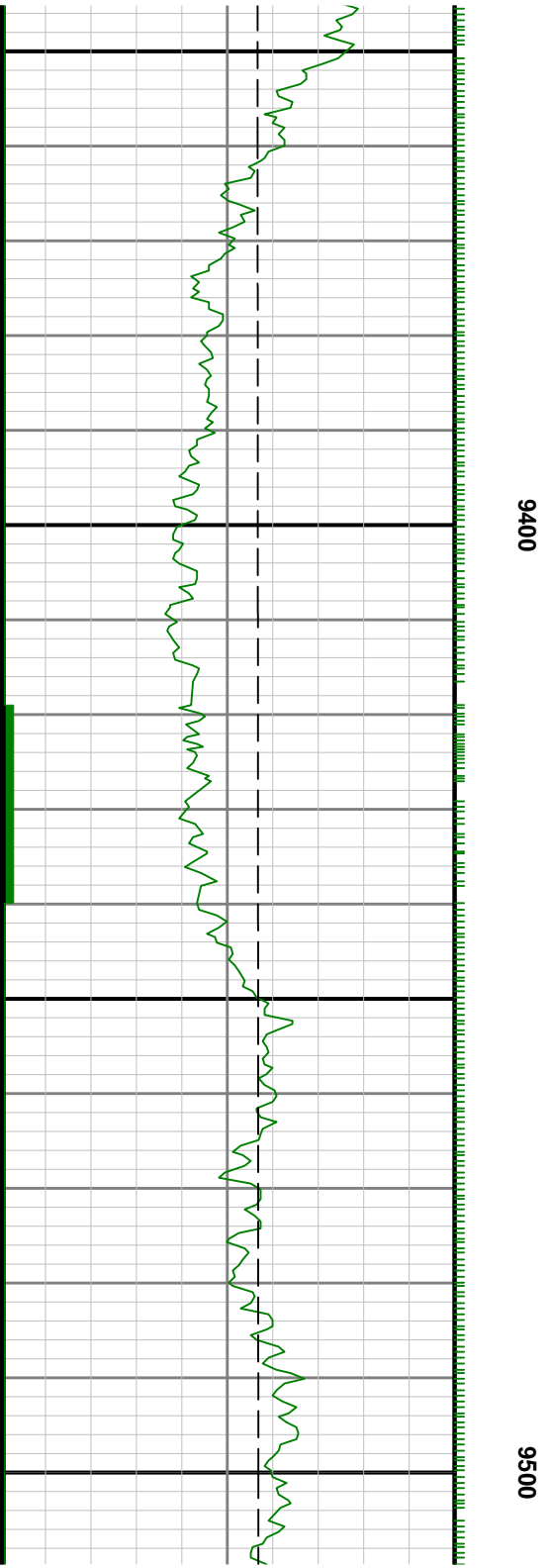
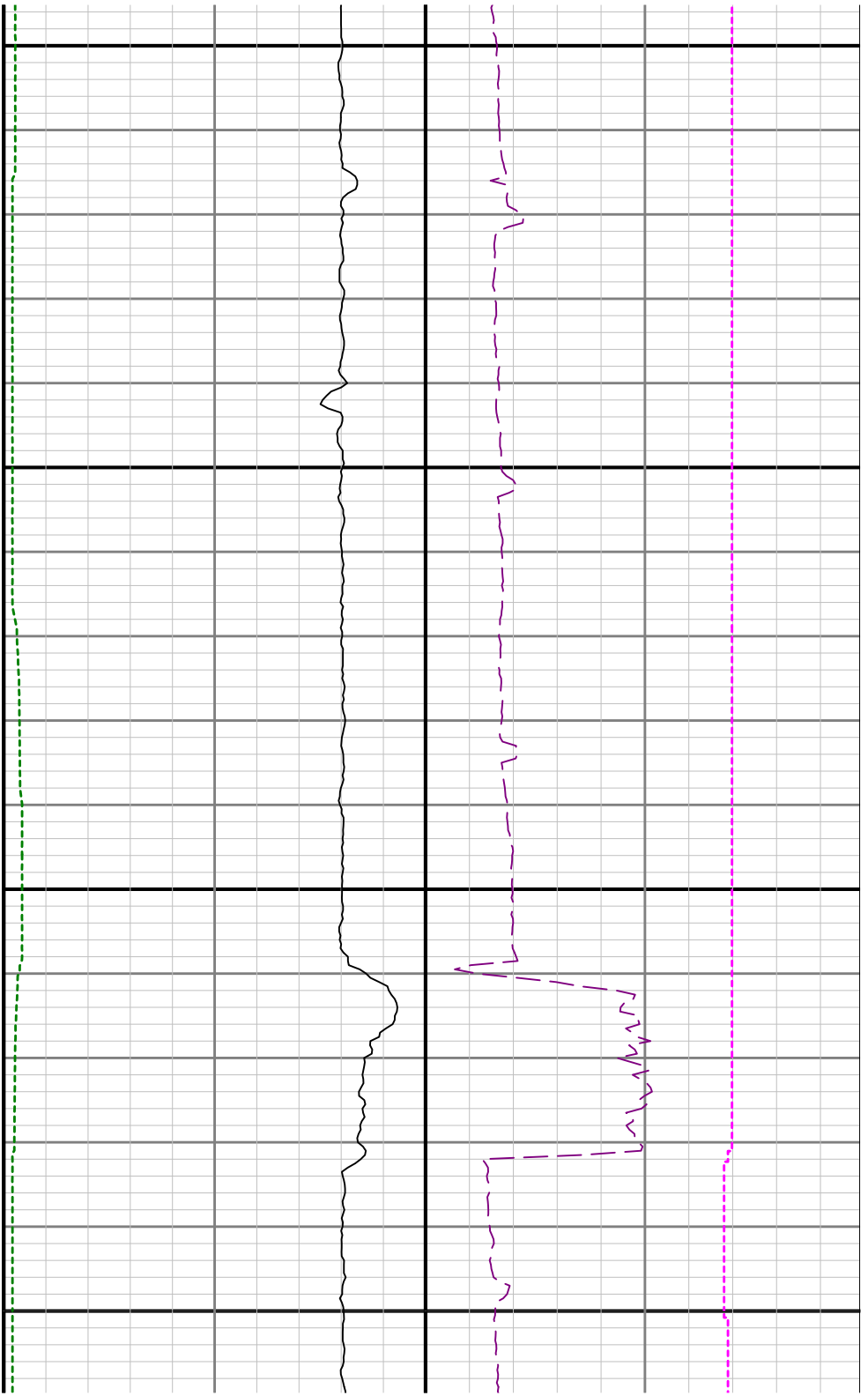


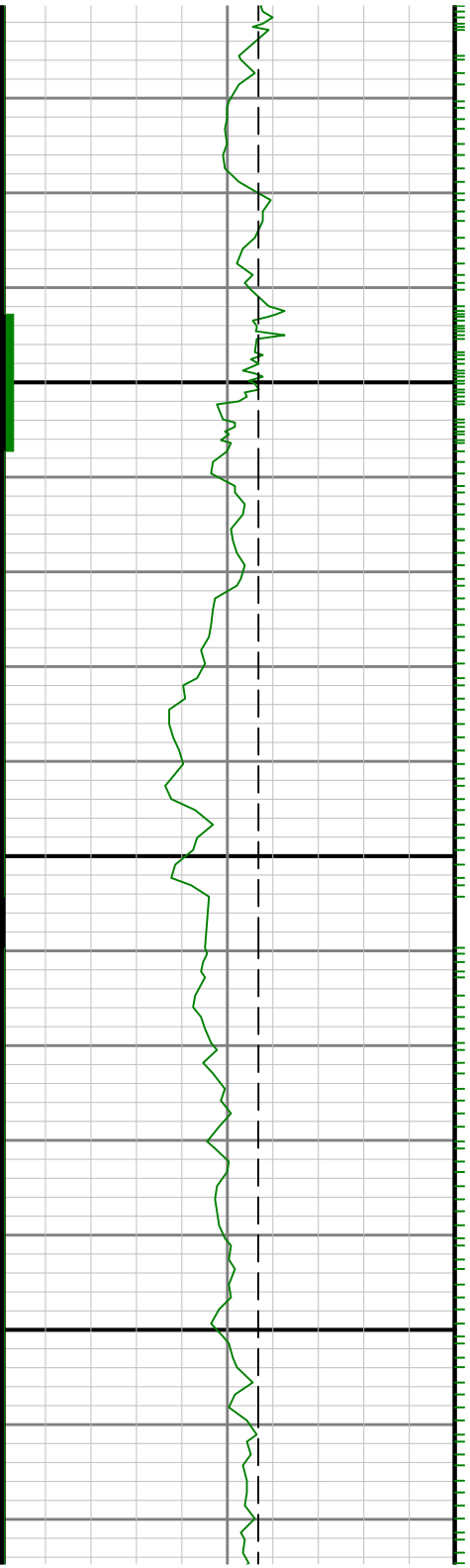


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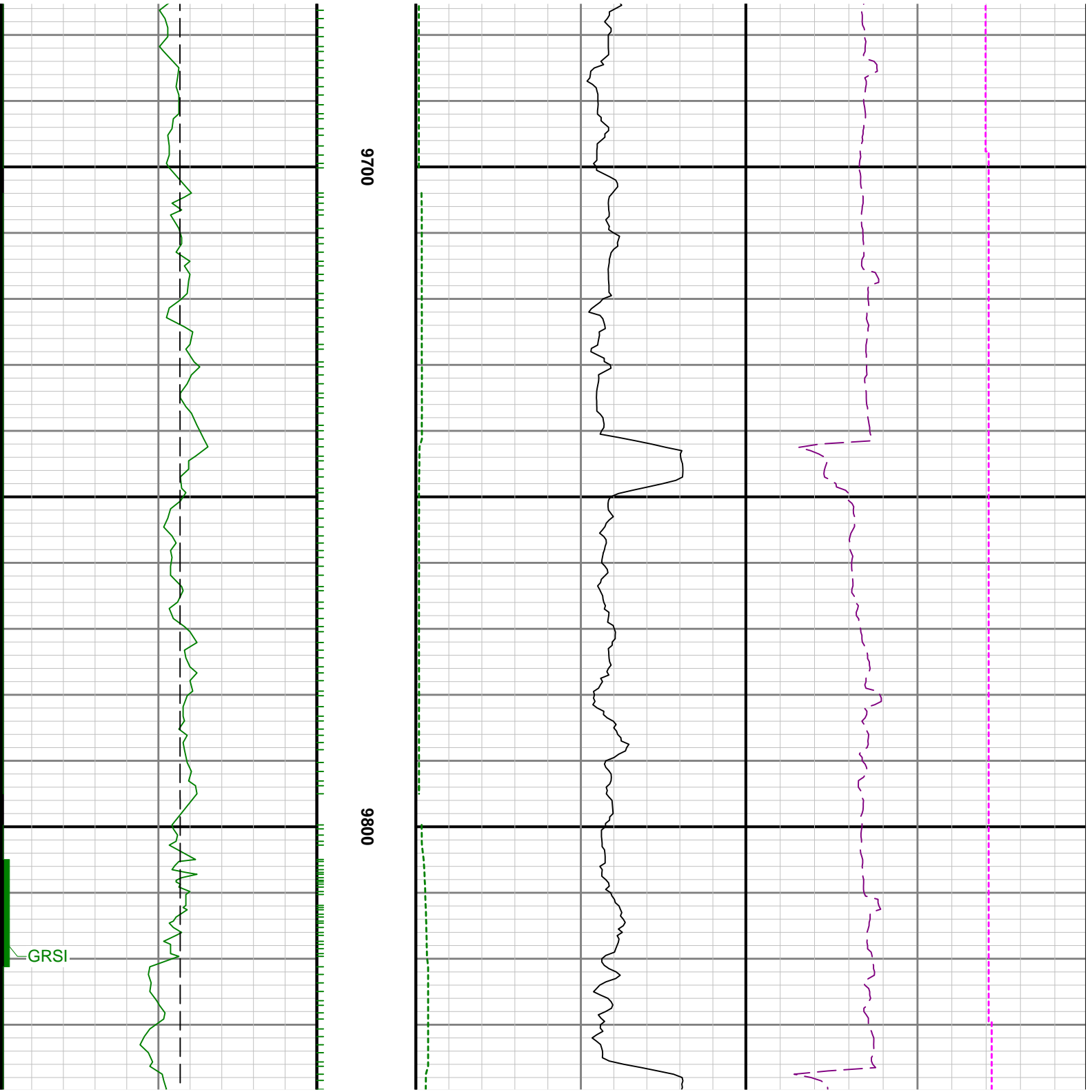


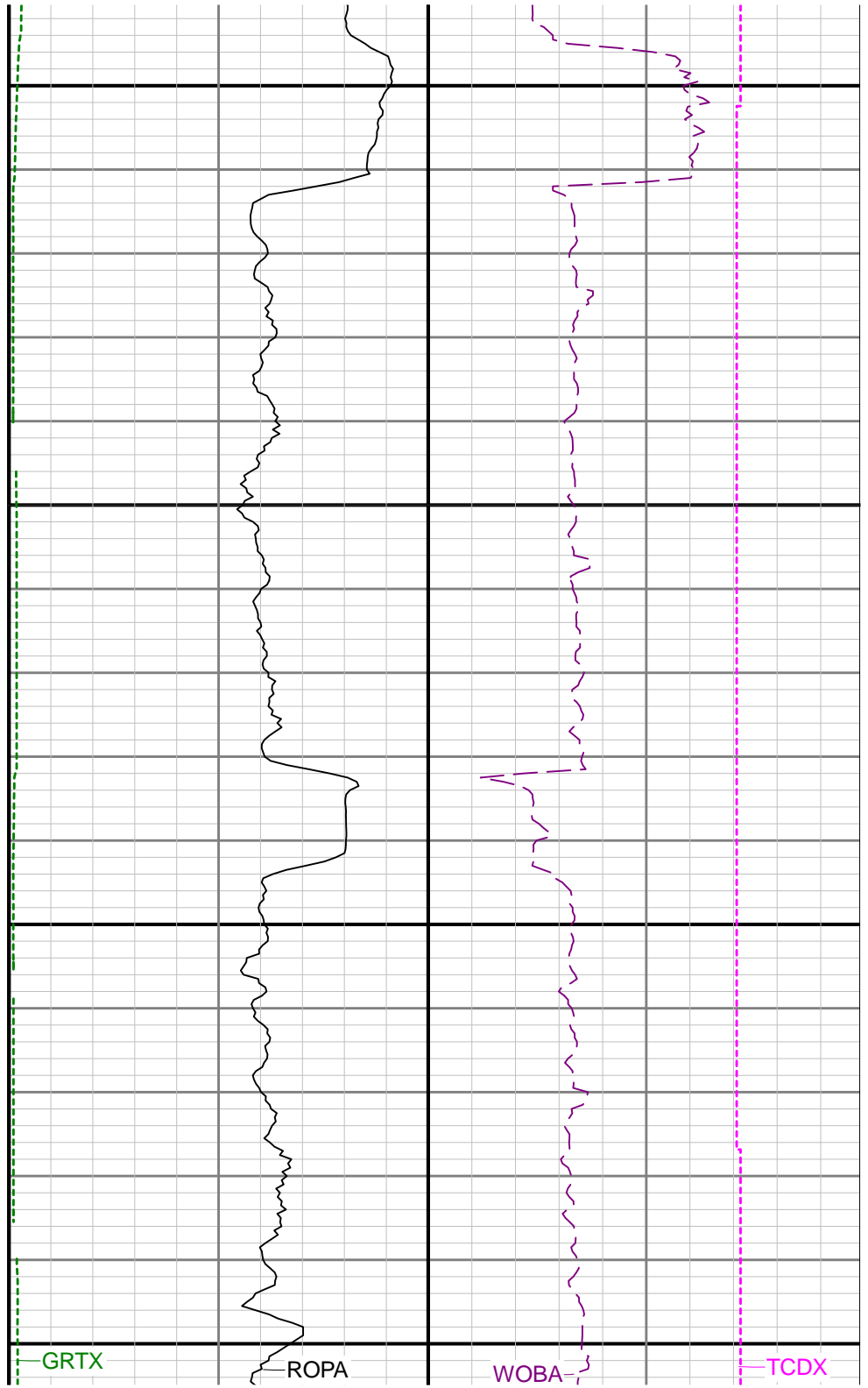
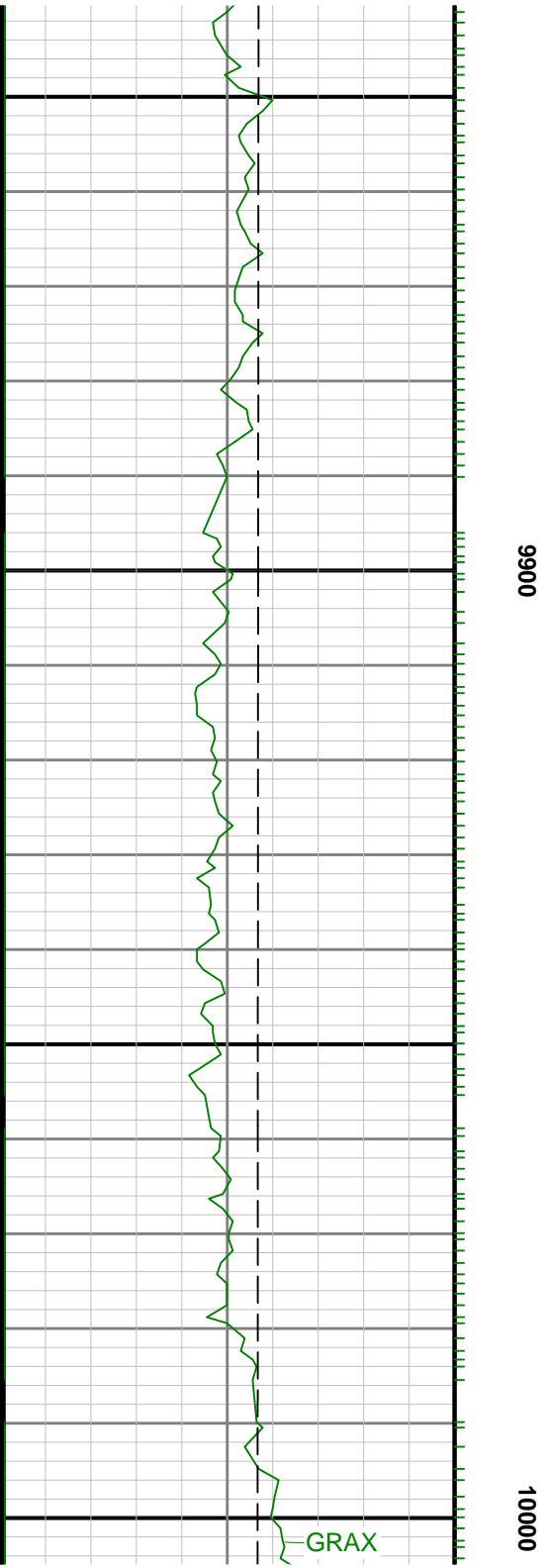




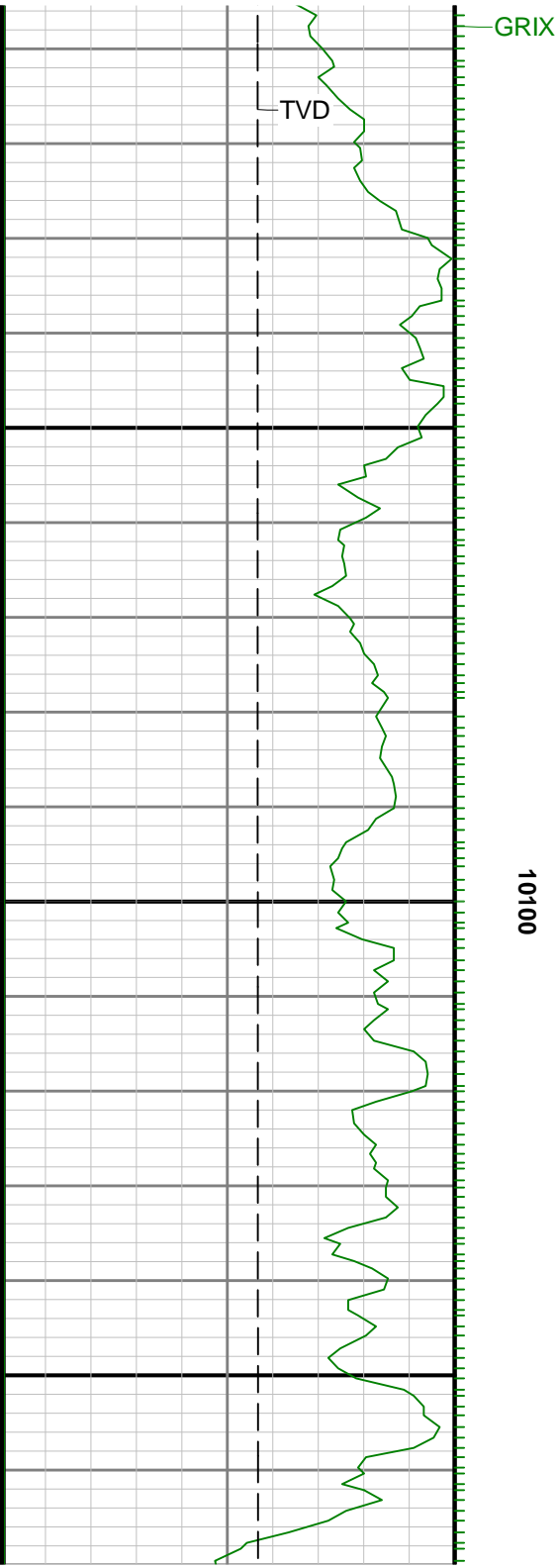
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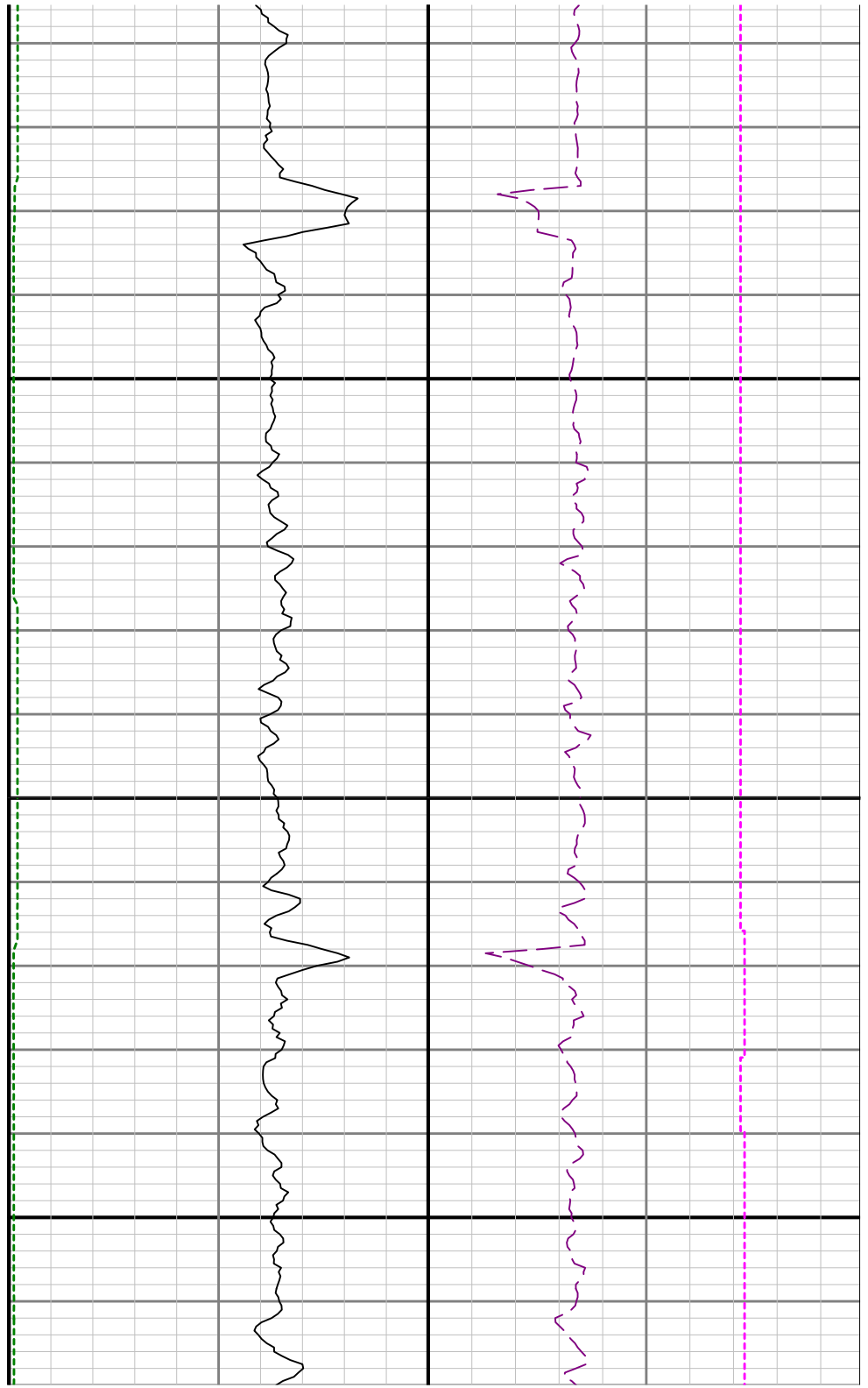


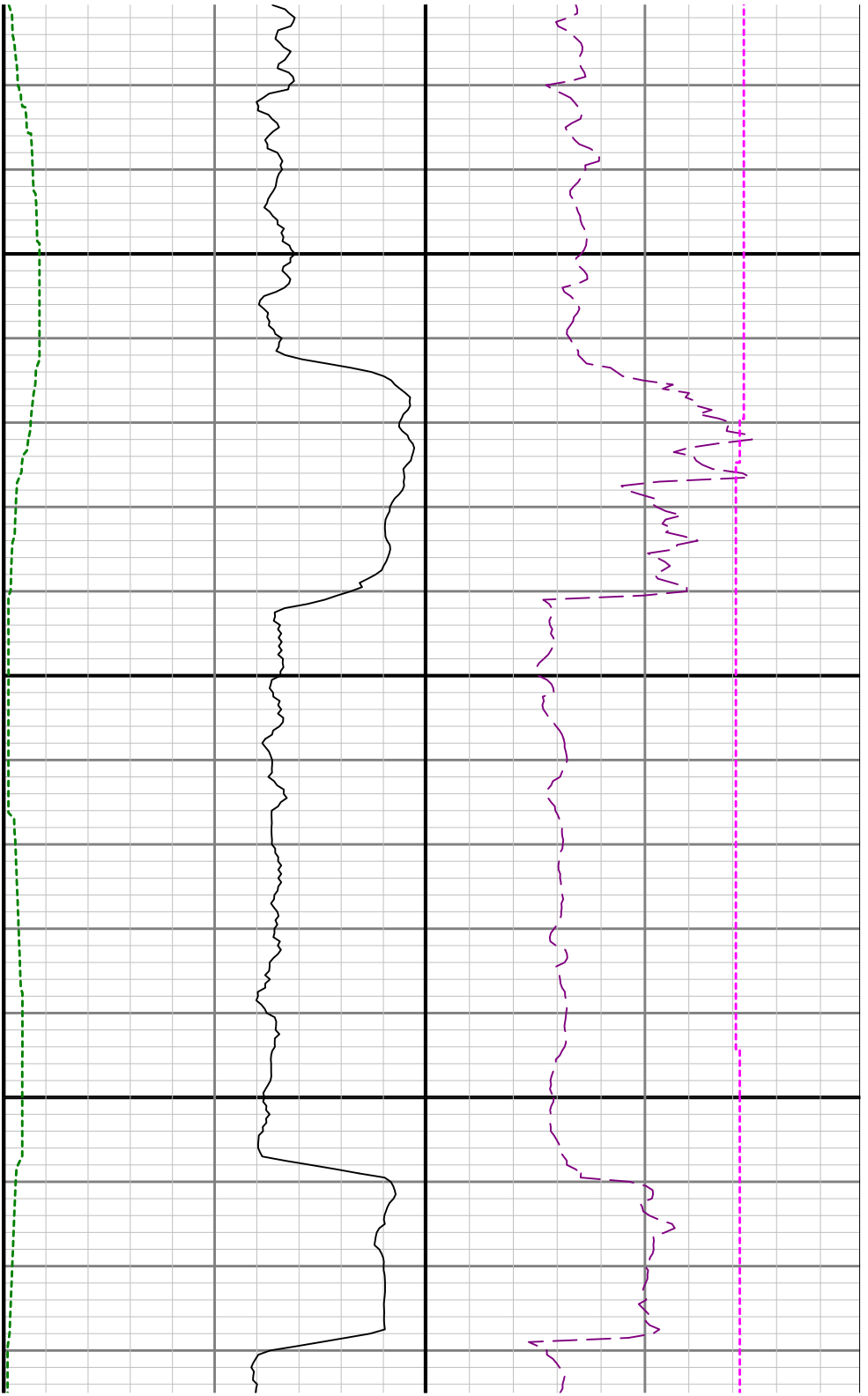


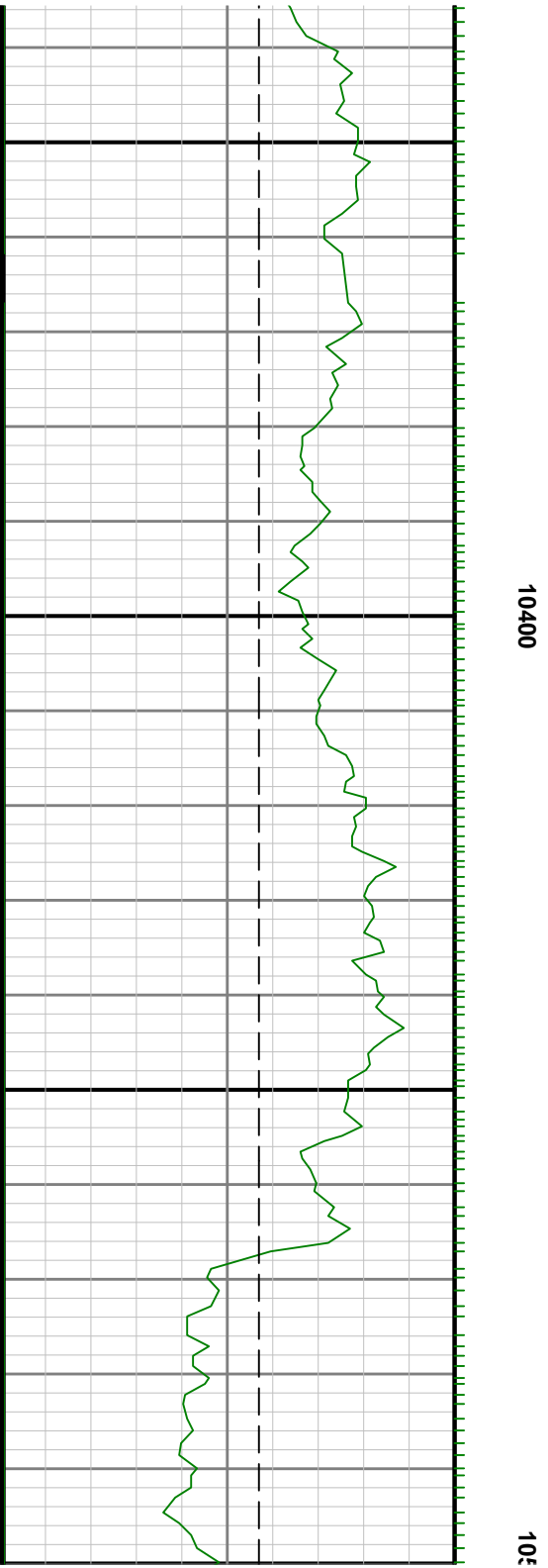
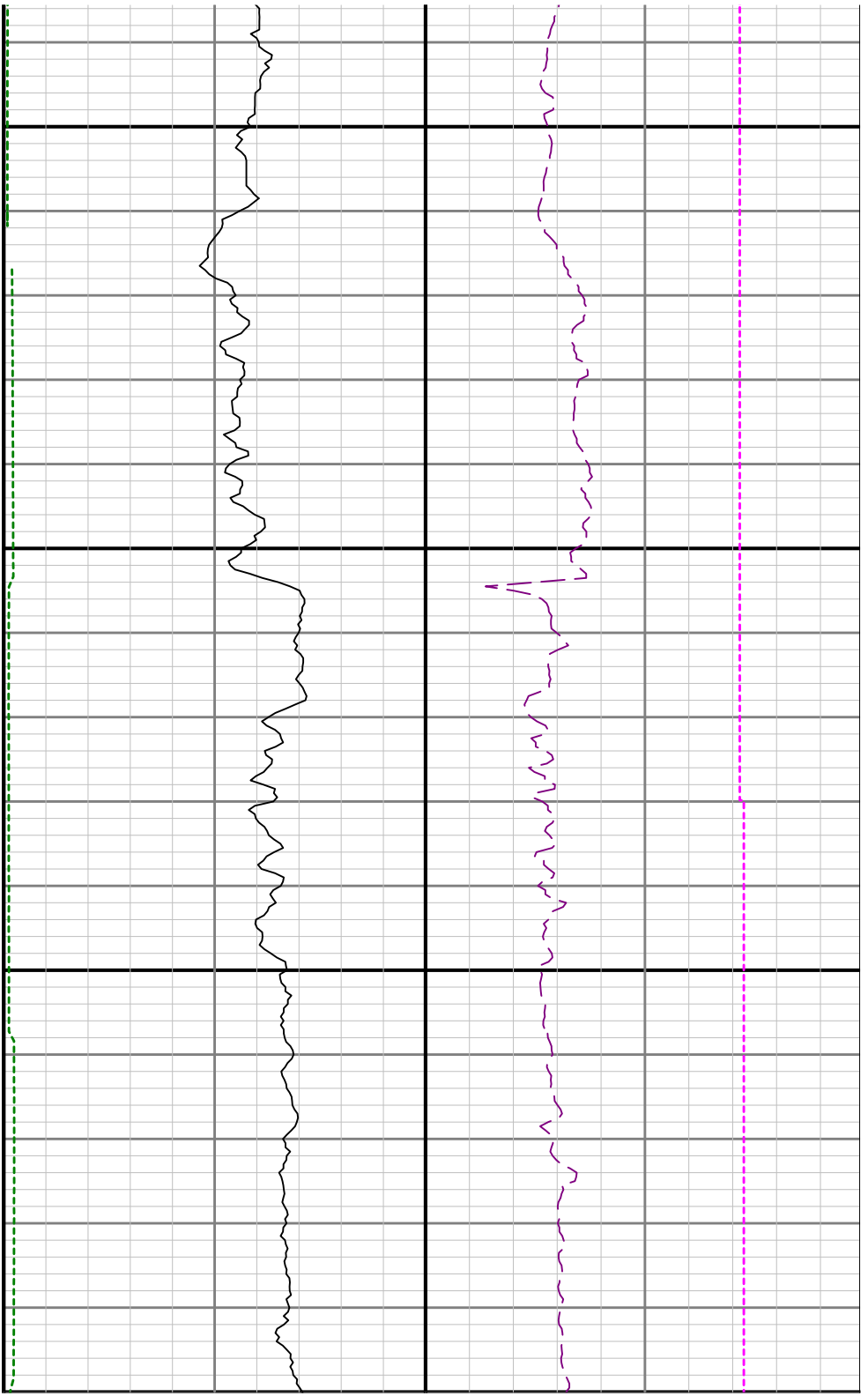


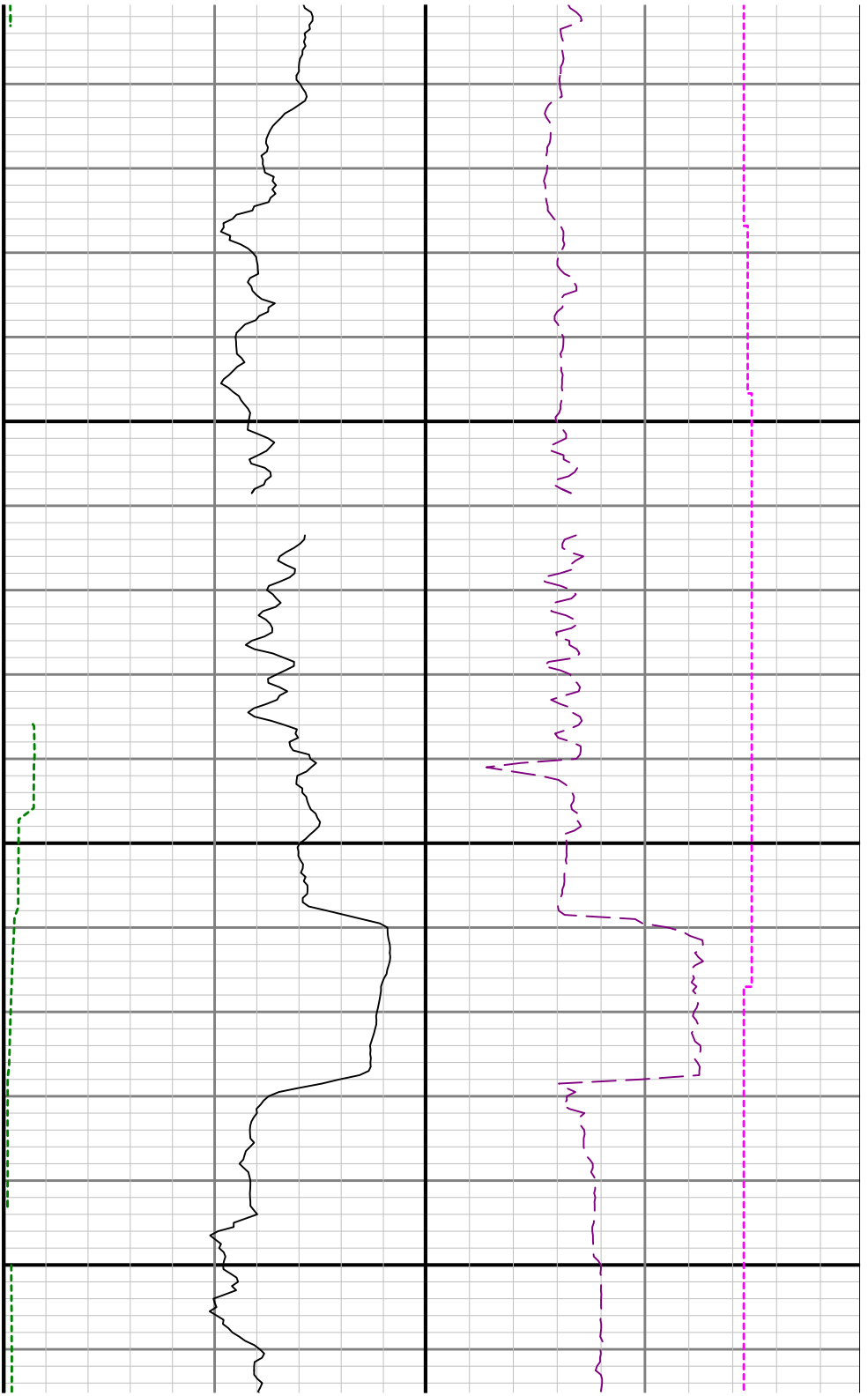


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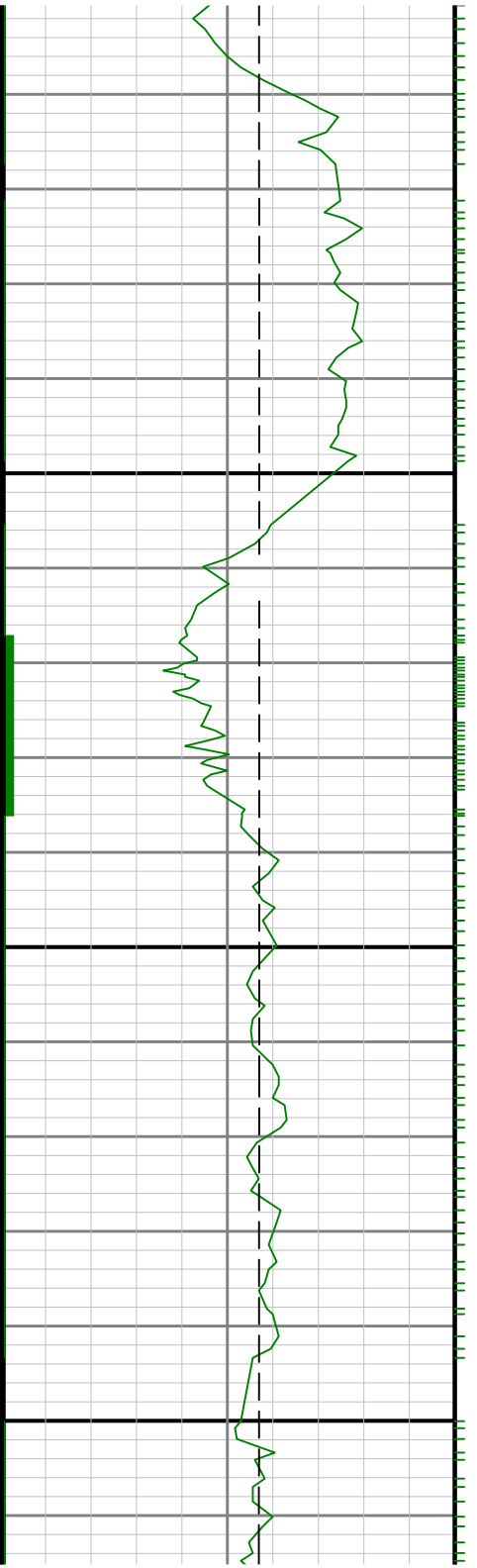


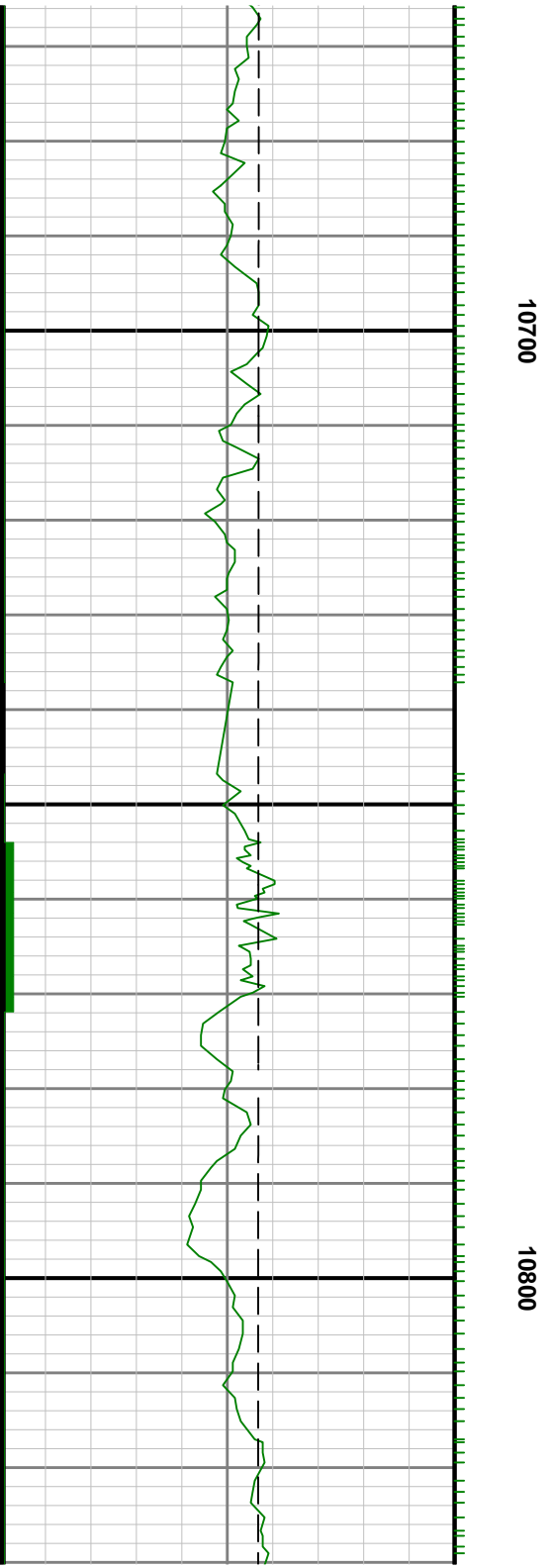
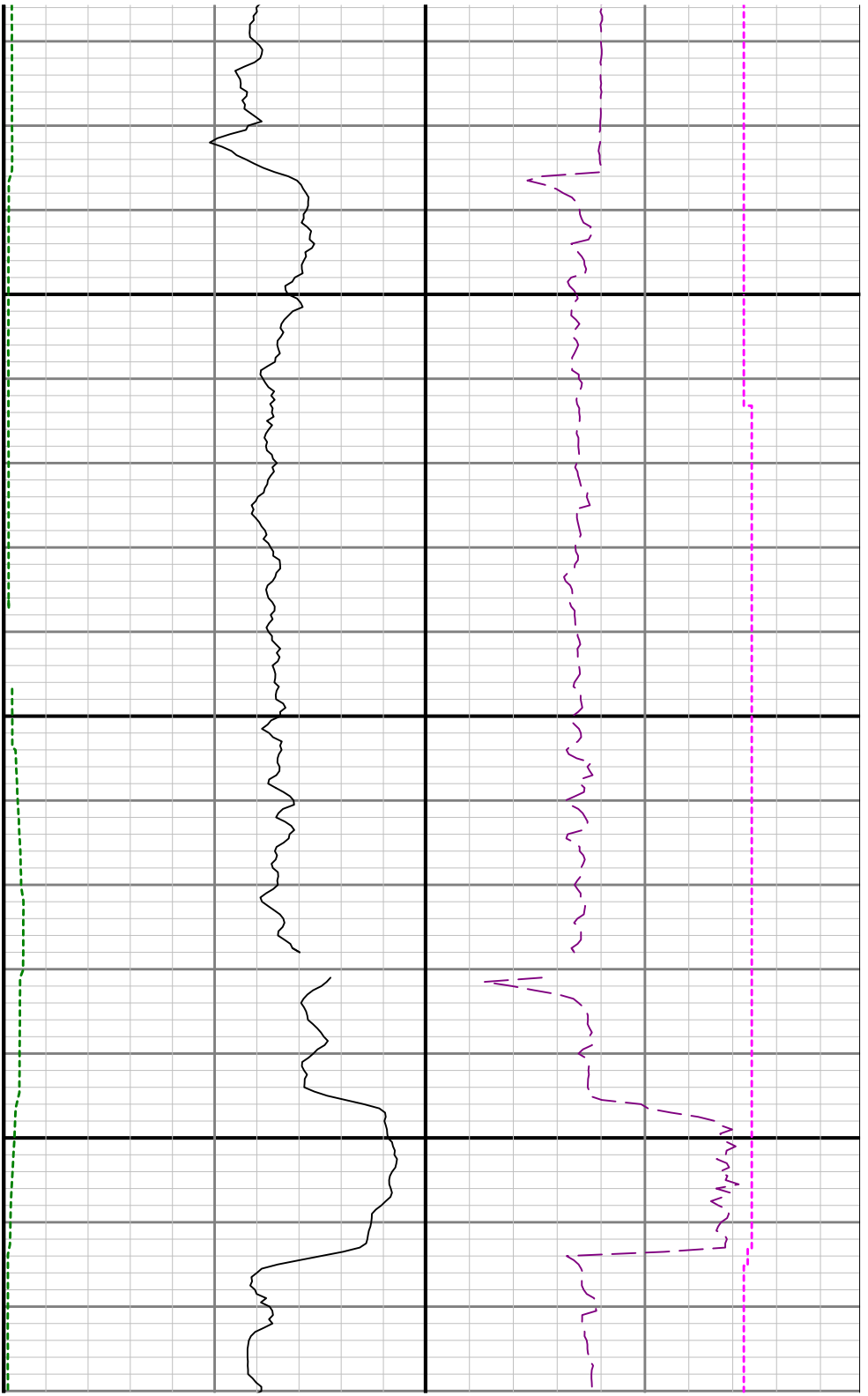


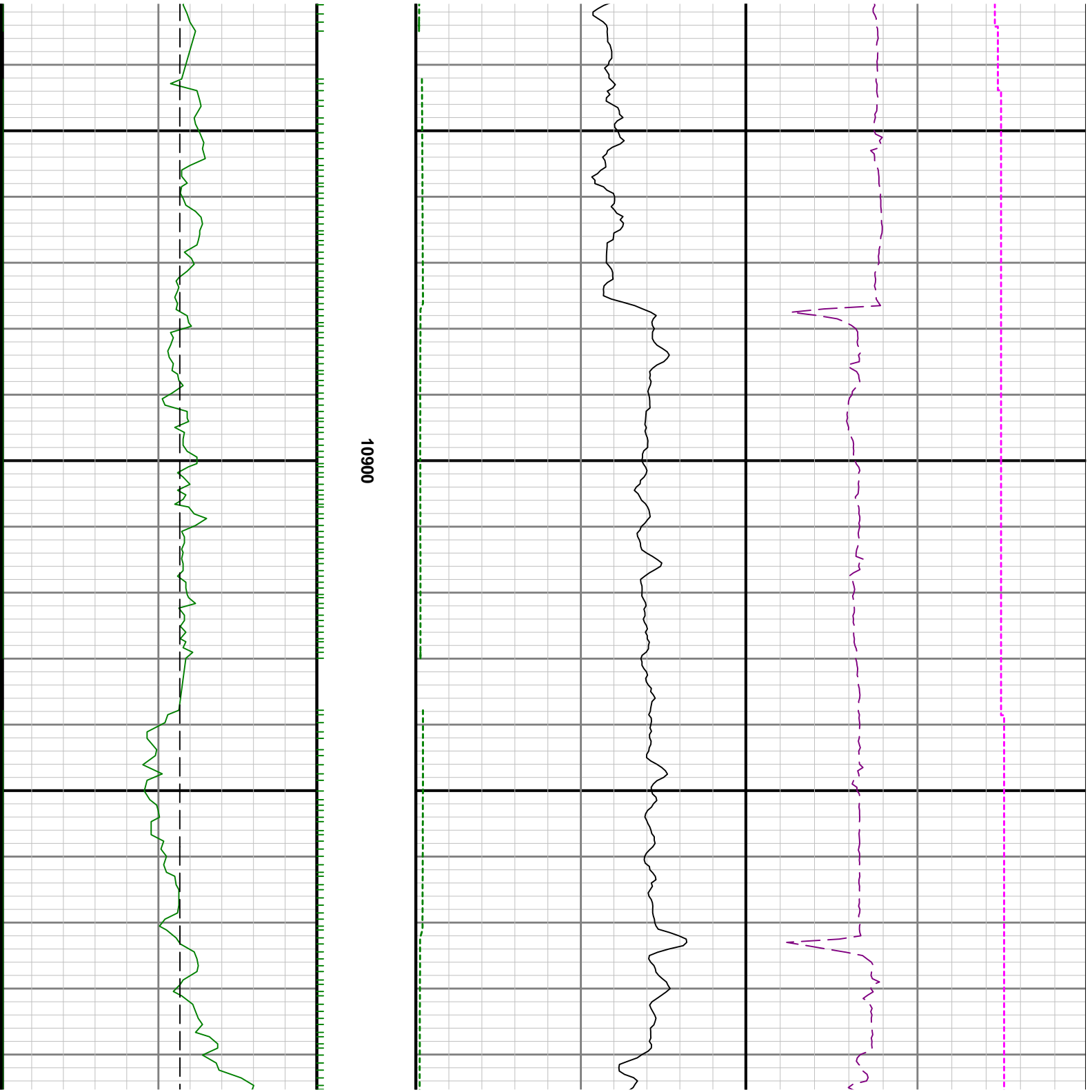


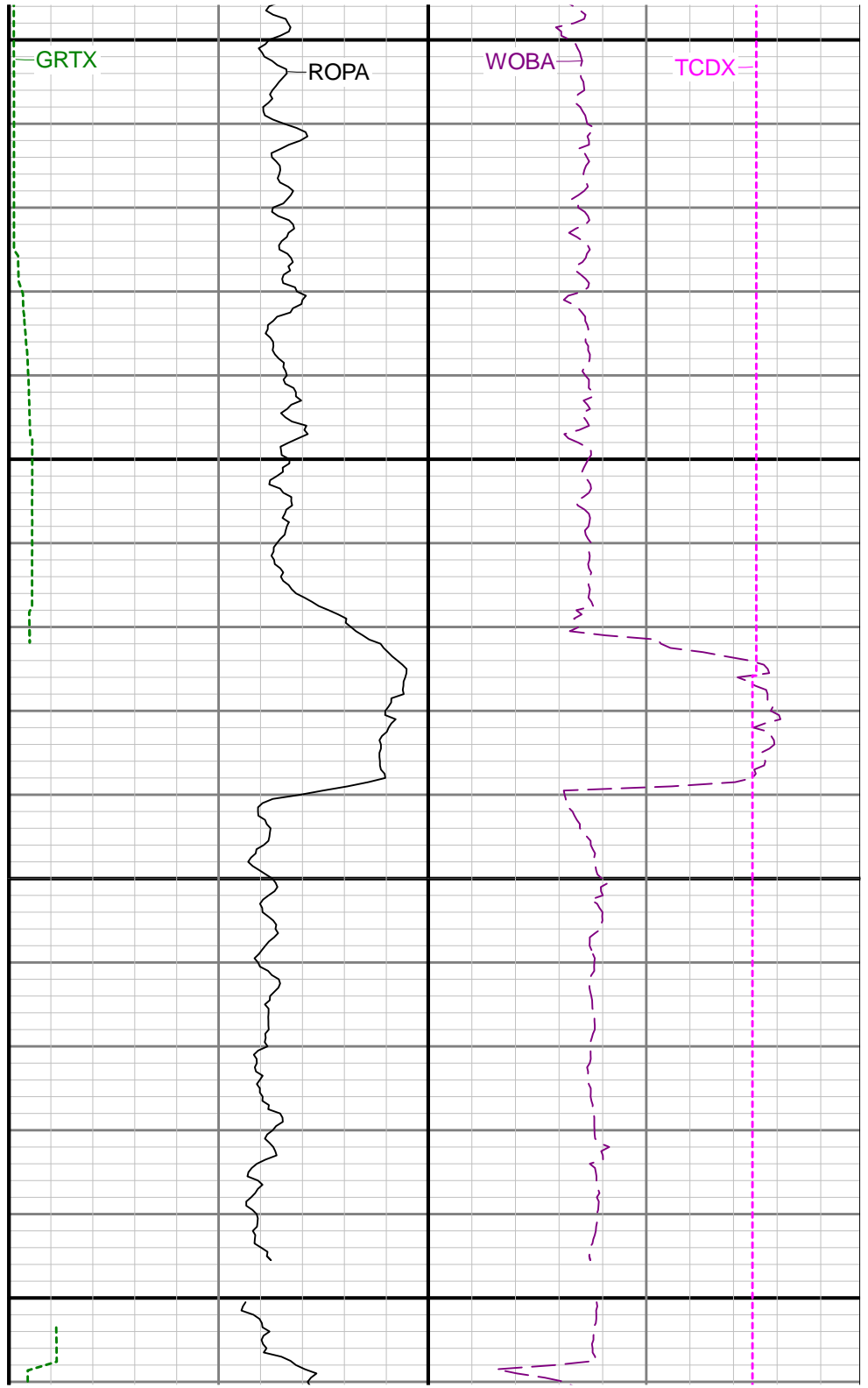
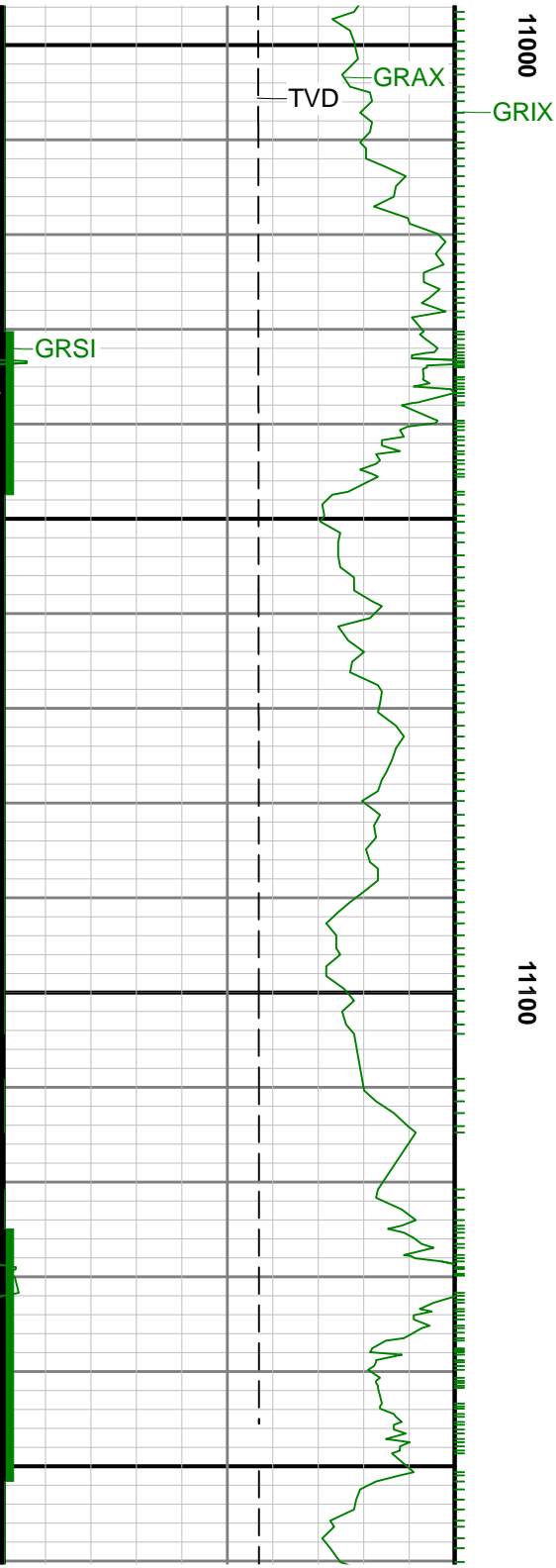
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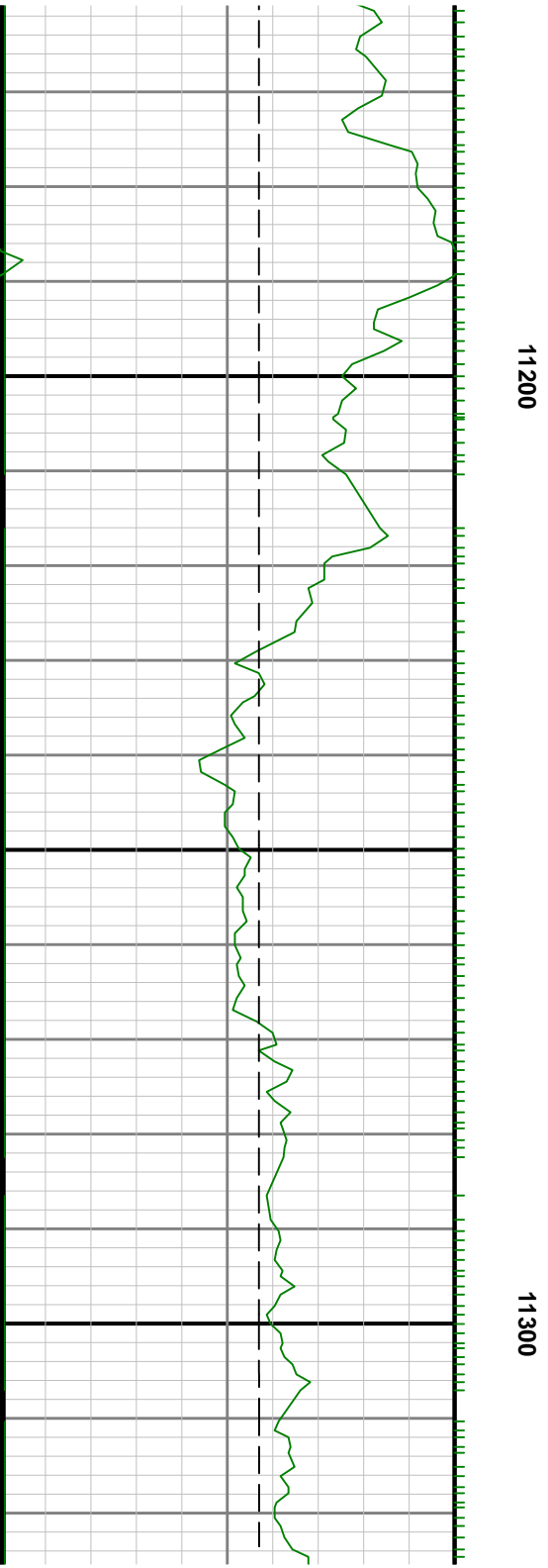
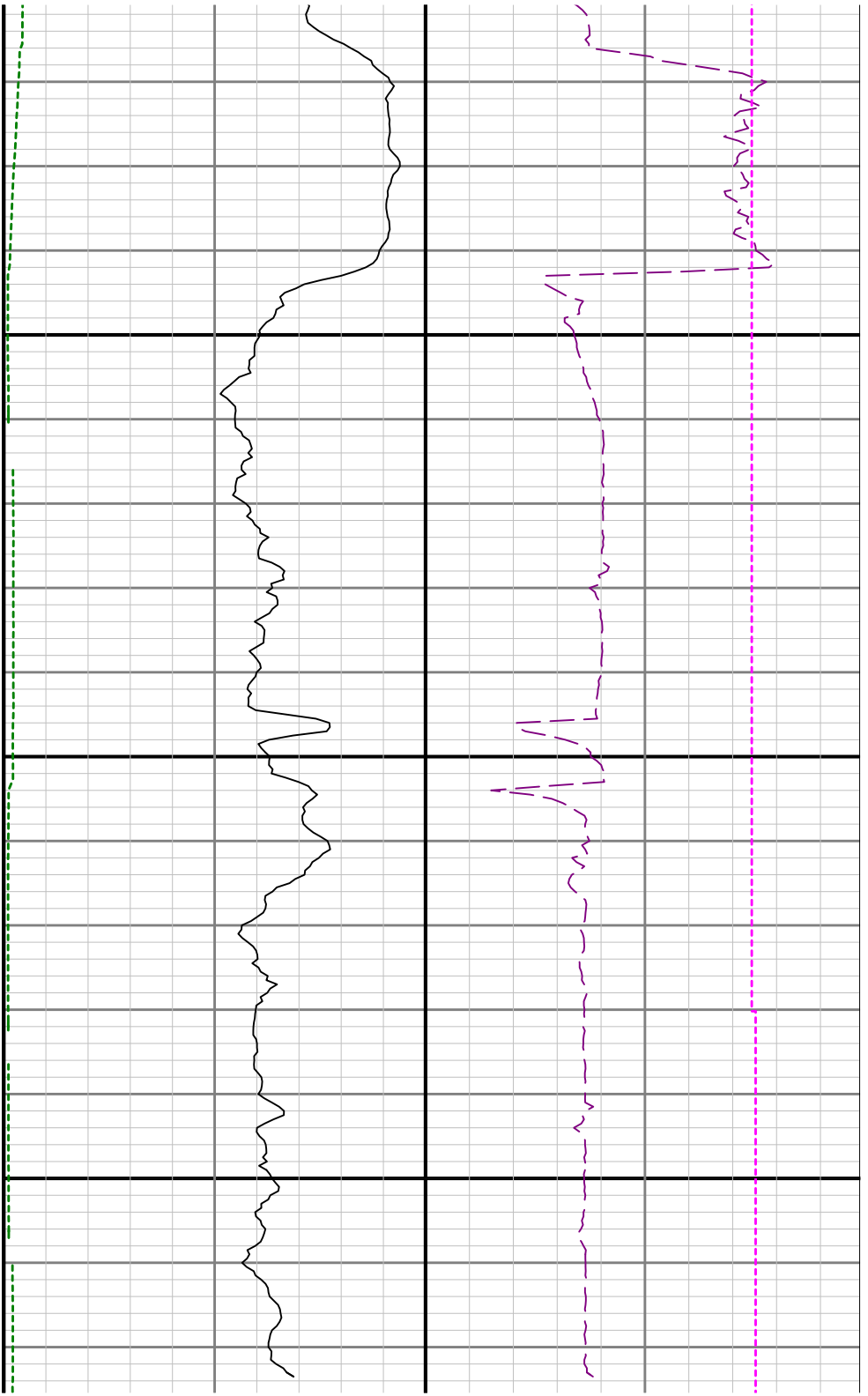
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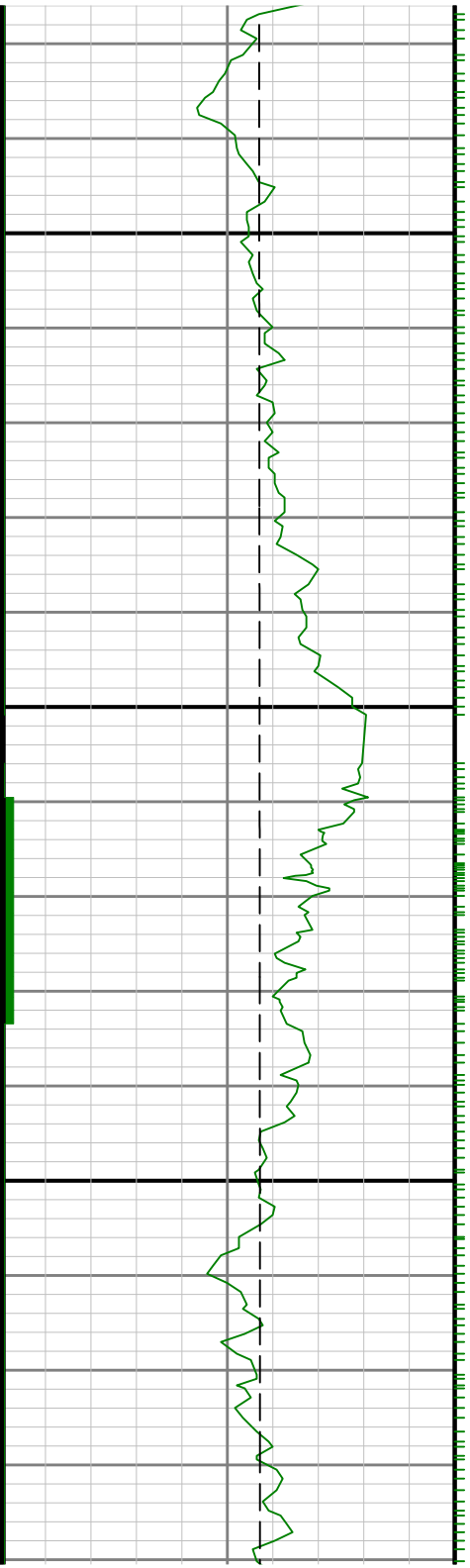


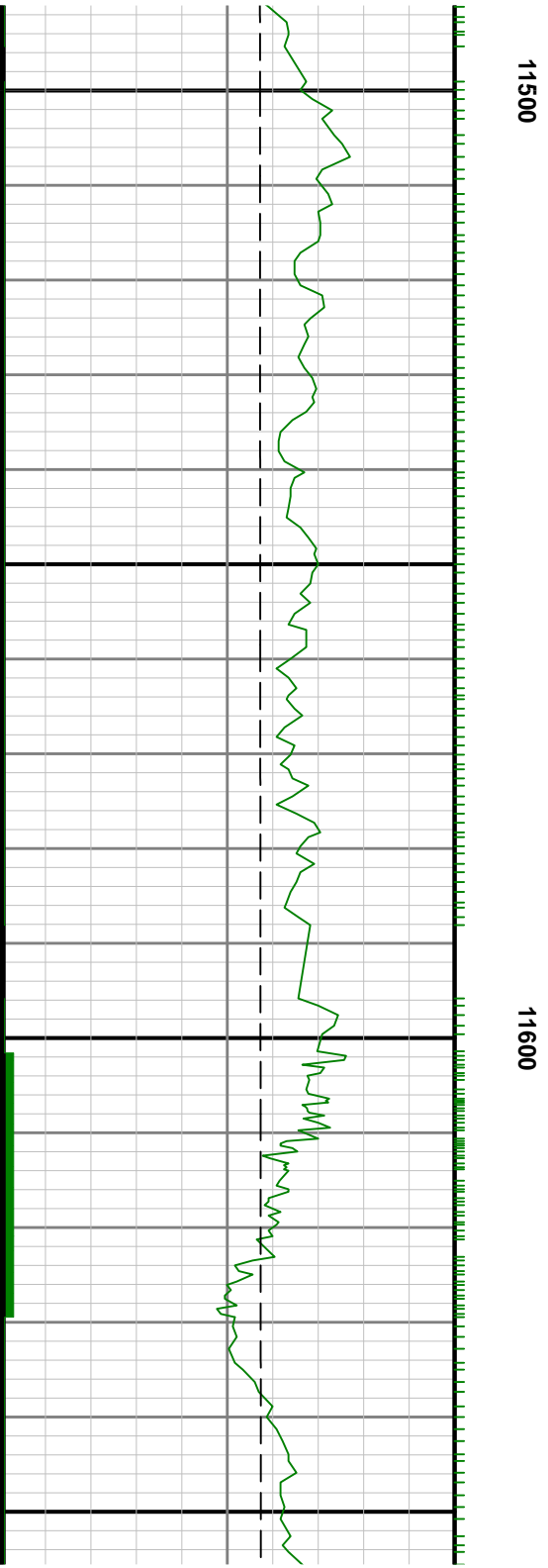
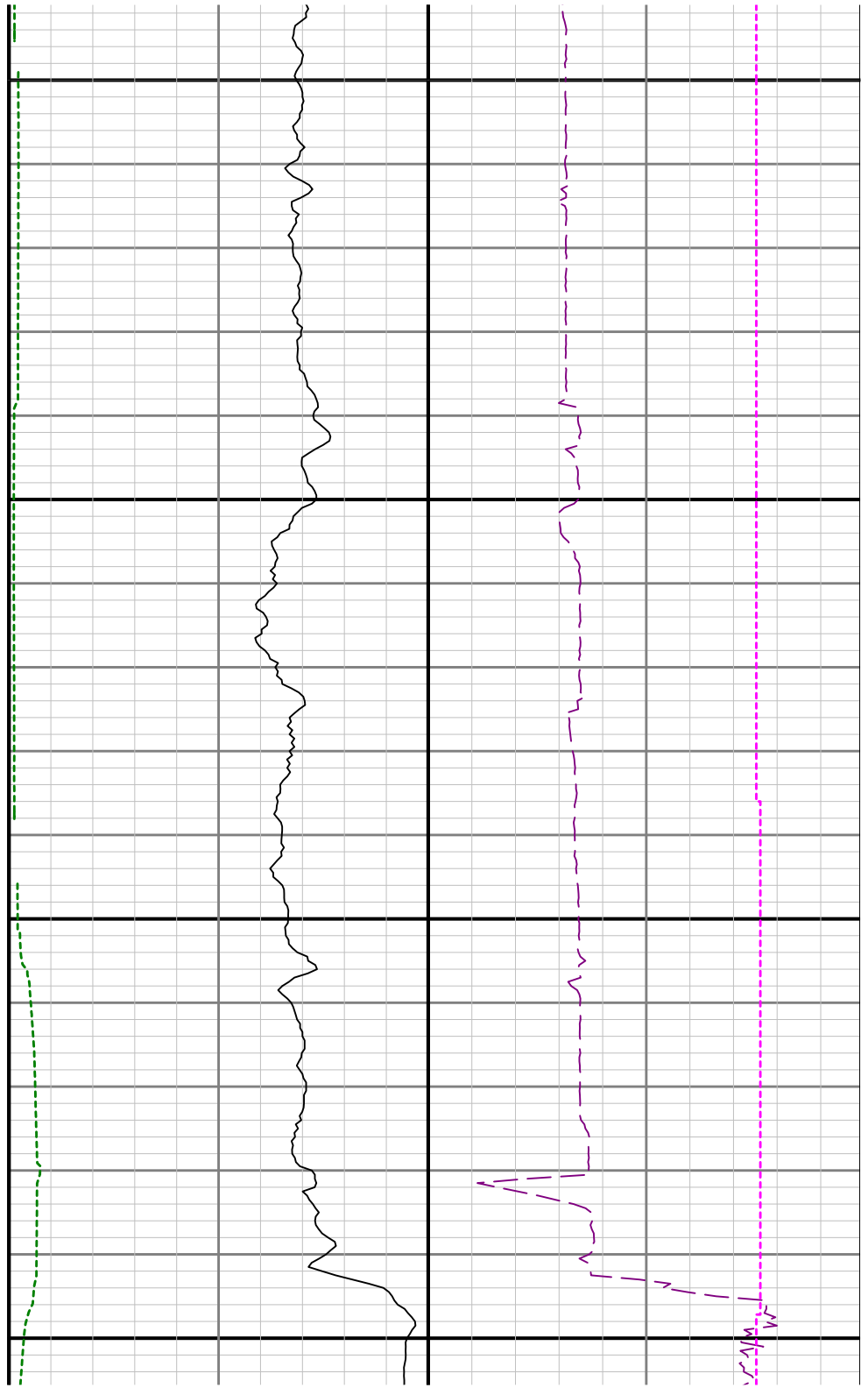


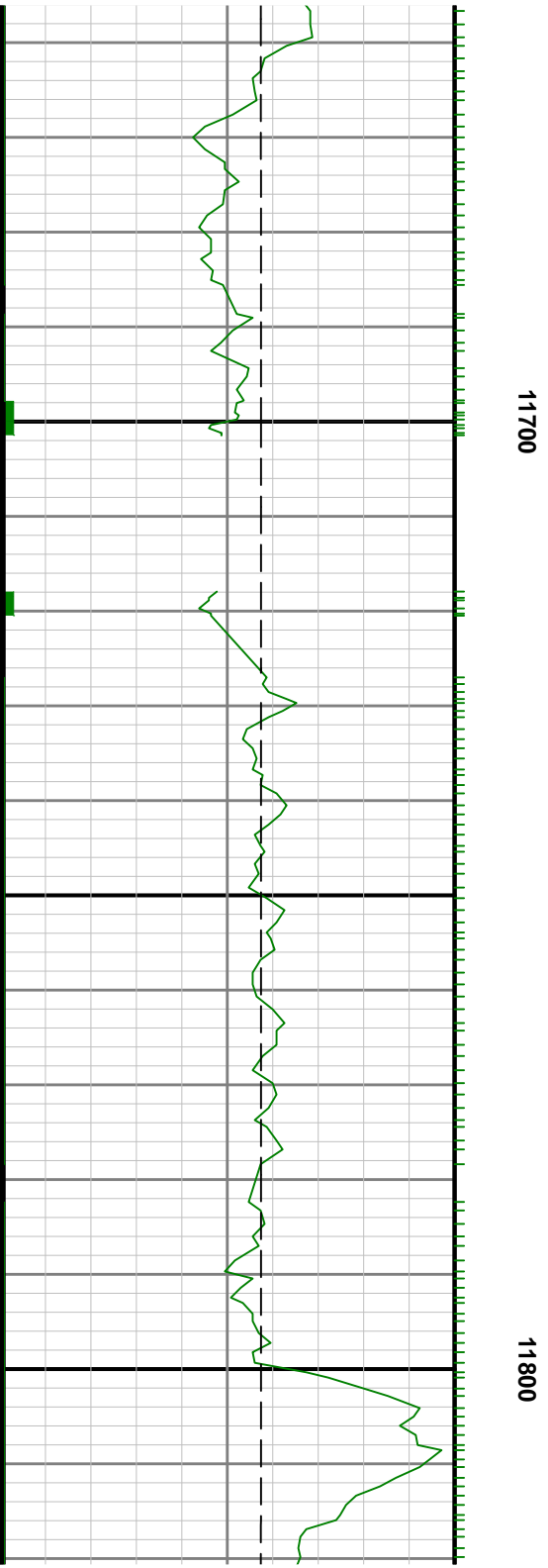


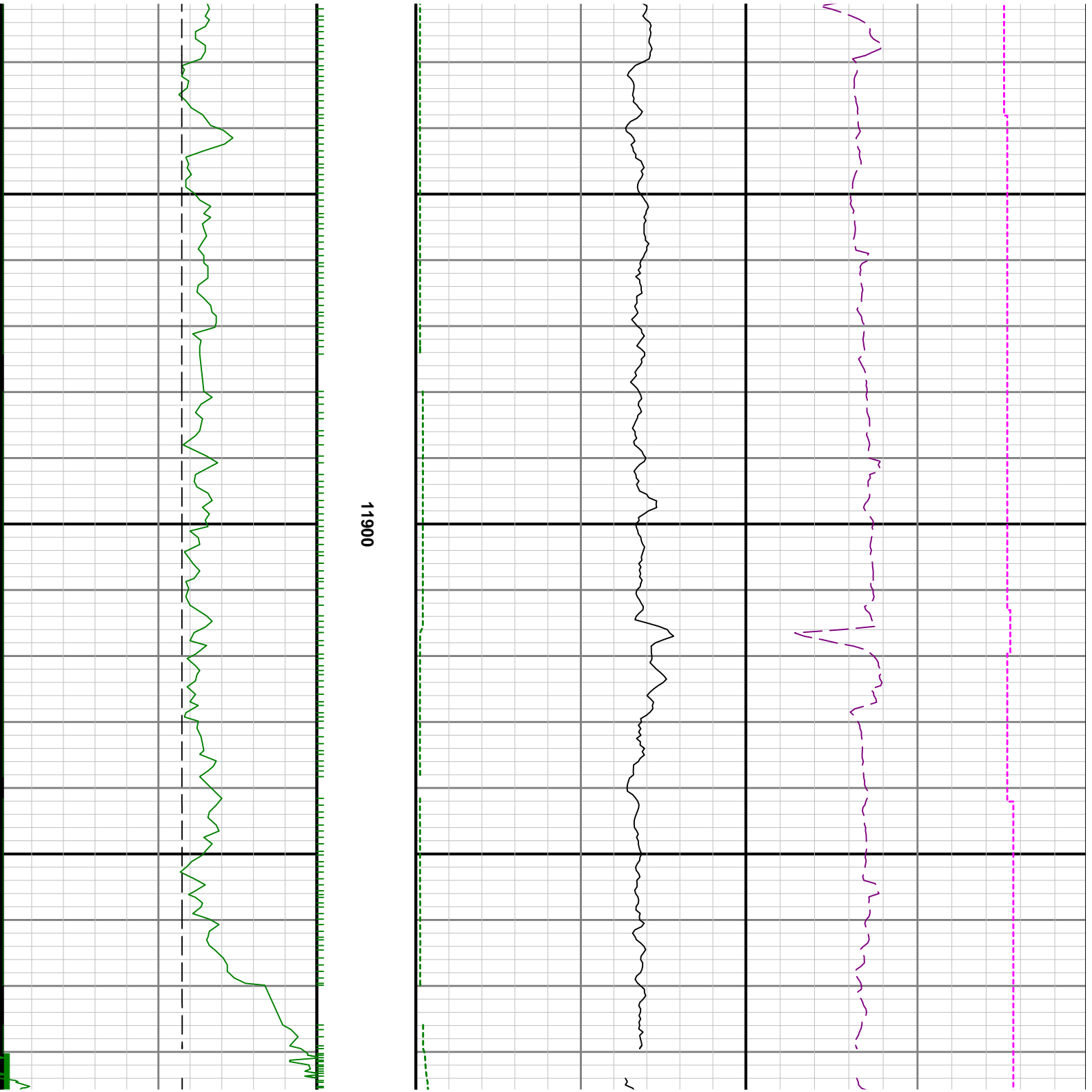


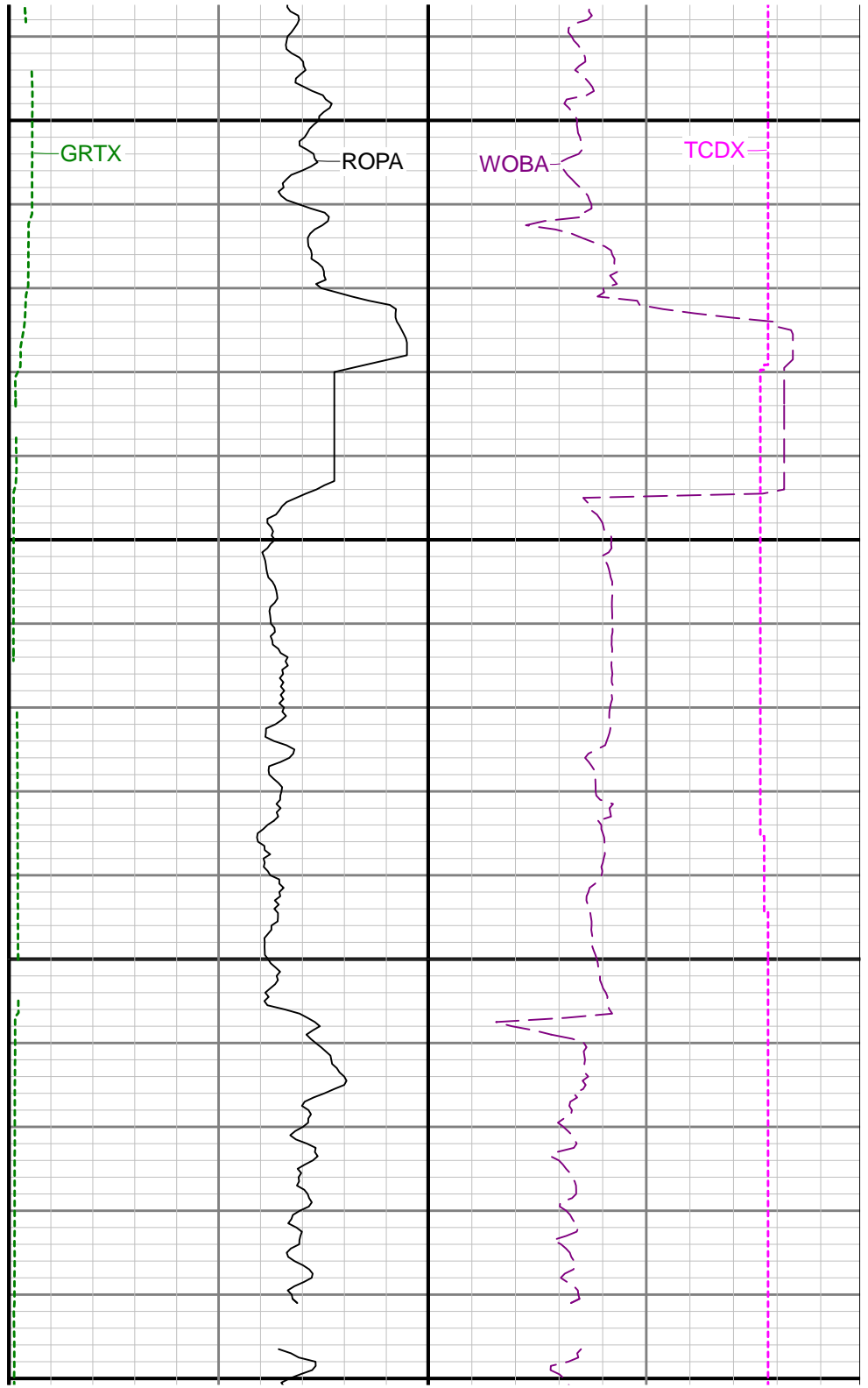
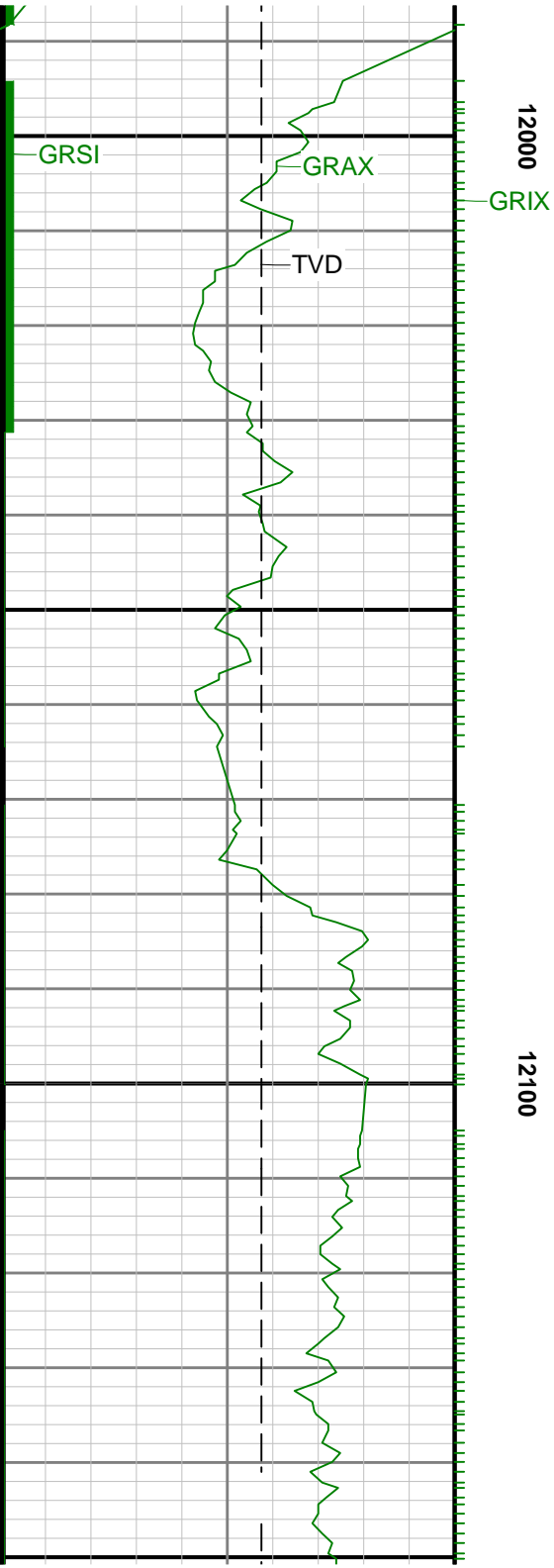
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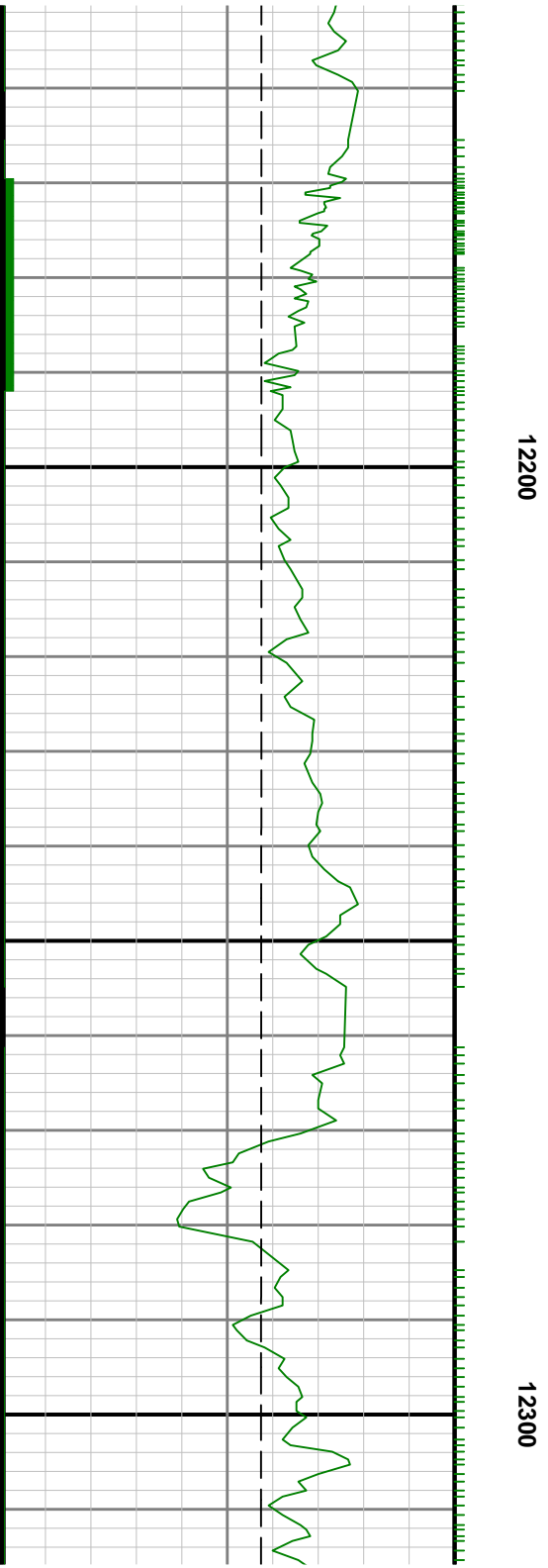
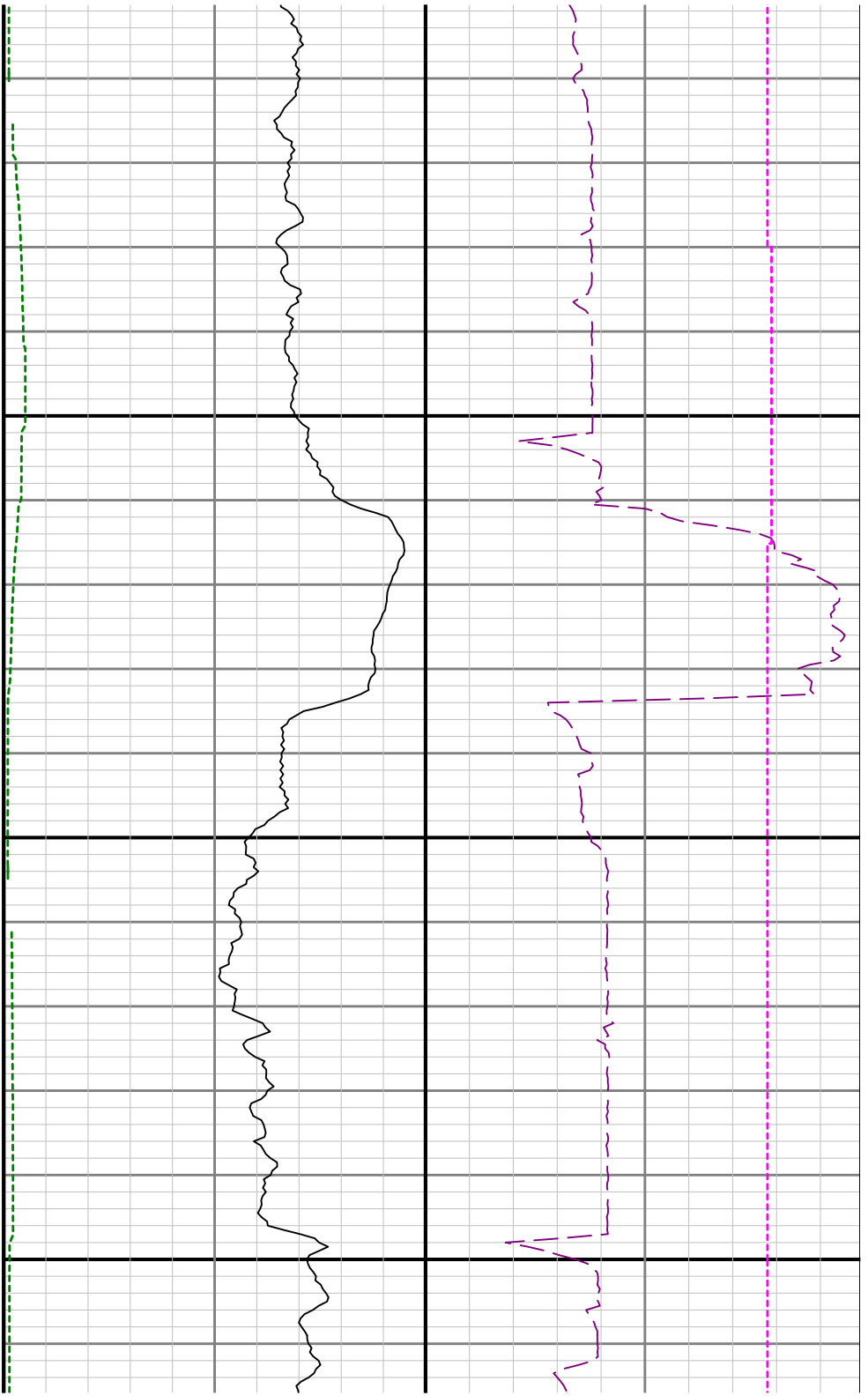


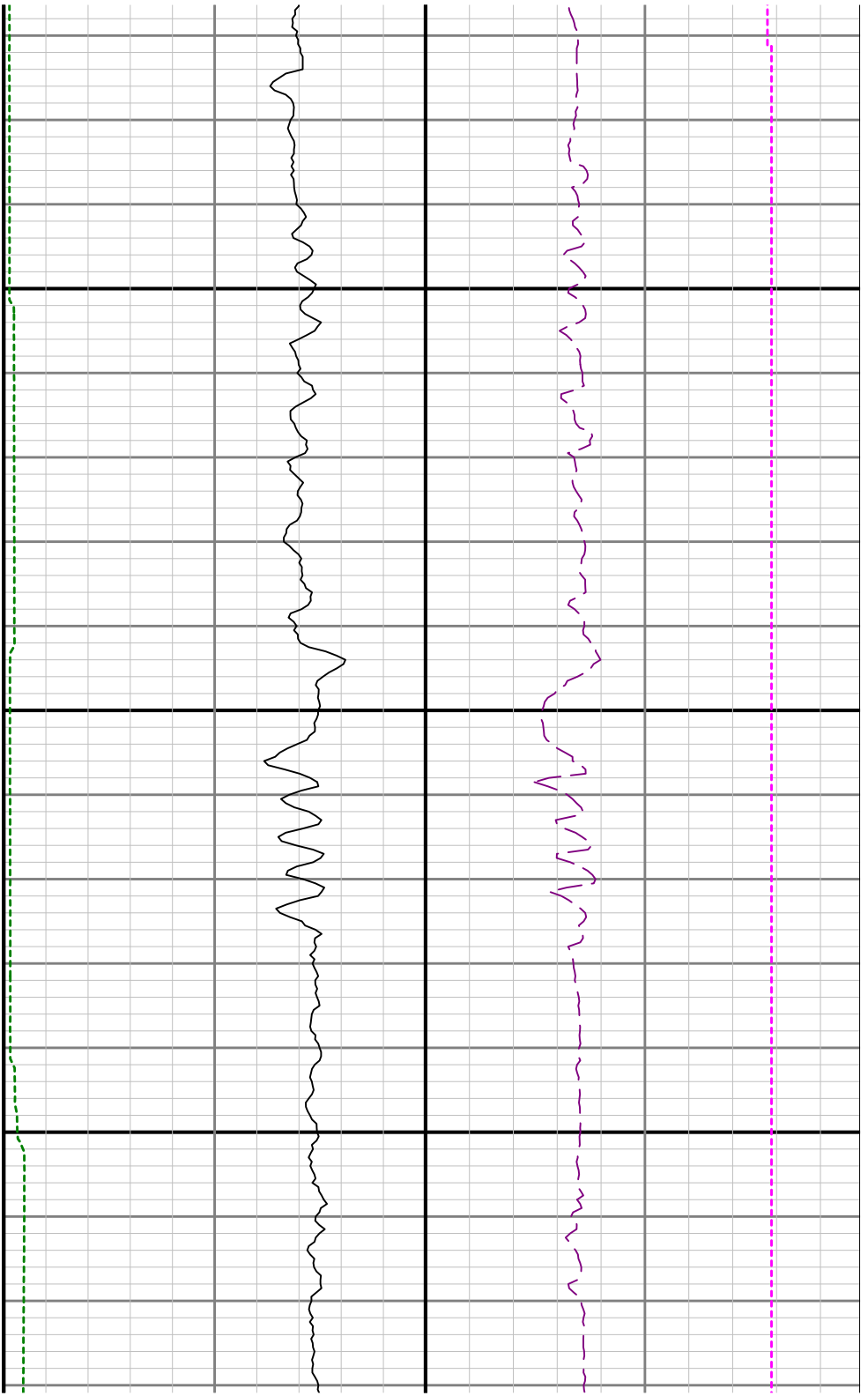




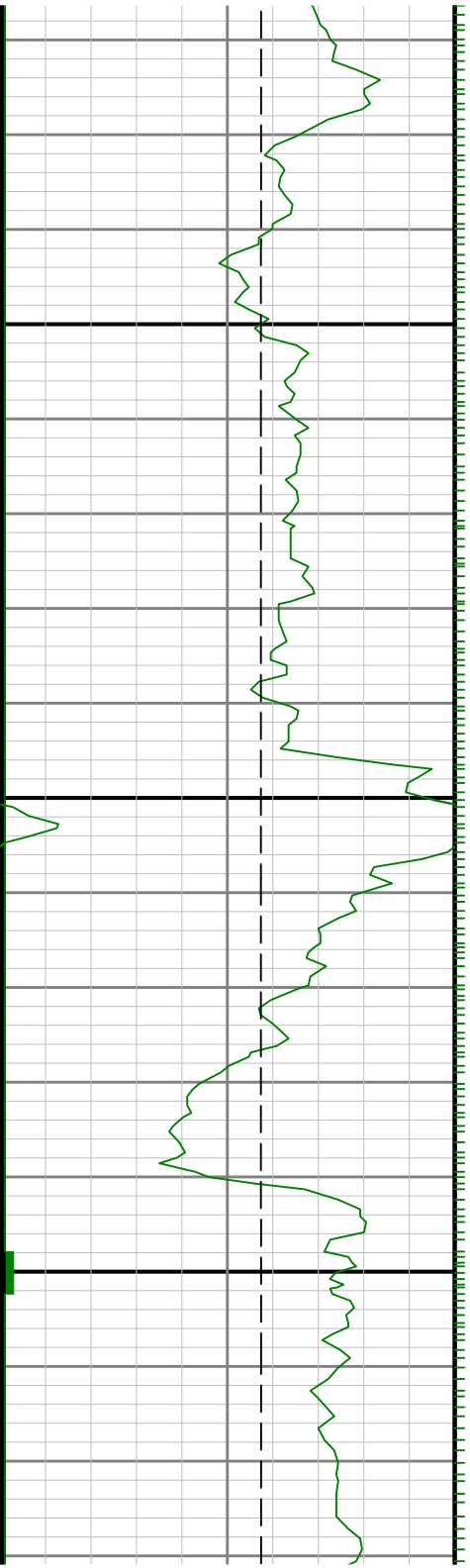


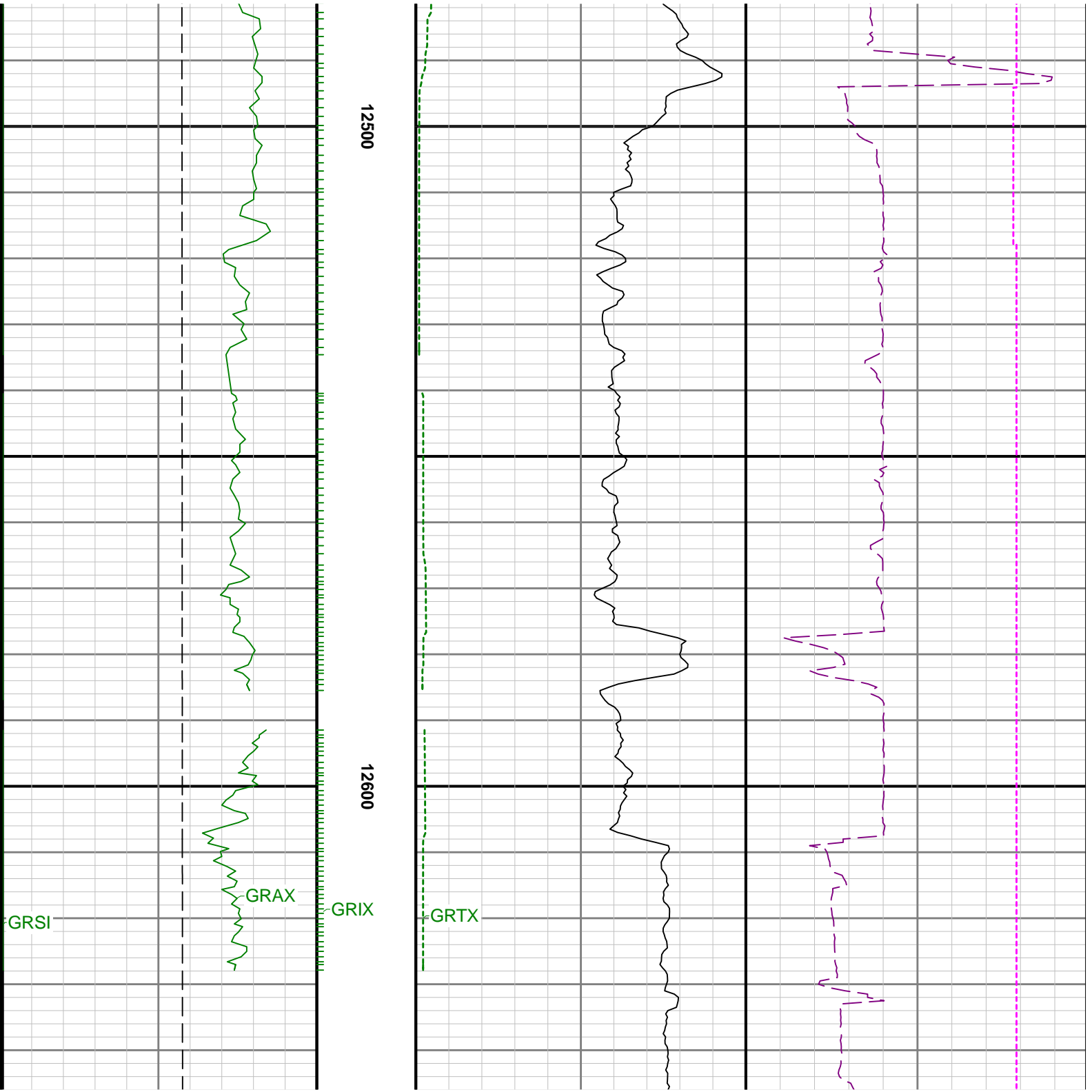






12400







<div>See Remark 2</div> <div>TVD</div>	TD	<div>ROP</div> <div>ROP</div>	<div>WOBA</div>	<div>TCDX</div>
<div>Gamma Ray Apparent 0.5 ft Average GRAX</div> <div>0150</div> <div>API</div> <div>True Vertical Depth TVD</div> <div>80006400</div> <div>ft</div>		<div>Rate of Penetration 3 ft Average ROP</div> <div>10000</div> <div>ft/h</div> <div>Gamma Ray Time Since Drilled GRTX</div> <div>0600</div> <div>min</div>	<div>Surface Weight On Bit 1 ft Average WOBA</div> <div>0100</div> <div>klb</div> <div>Downhole Temperature TCDX</div> <div>0300</div> <div>degF</div>	