

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.
						Top	Bottom	From	To	Start Logging	End Logging	Hours
						(ft)	(ft)	(ft)	(ft)			
1	1	8.500	PDC	0.61	AutoTrak Curve	1867.29	11927.74	1880.00	11934.28	2016-04-02 11:24	2016-04-05 05:54	56.07

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Austin Small	2016-04-01	2016-04-05	David Browning	2016-04-01	2016-04-05	Hans Cary	2016-04-01	2016-04-05
Mike Gurnsey	2016-04-01	2016-04-05						

Mud Properties Record

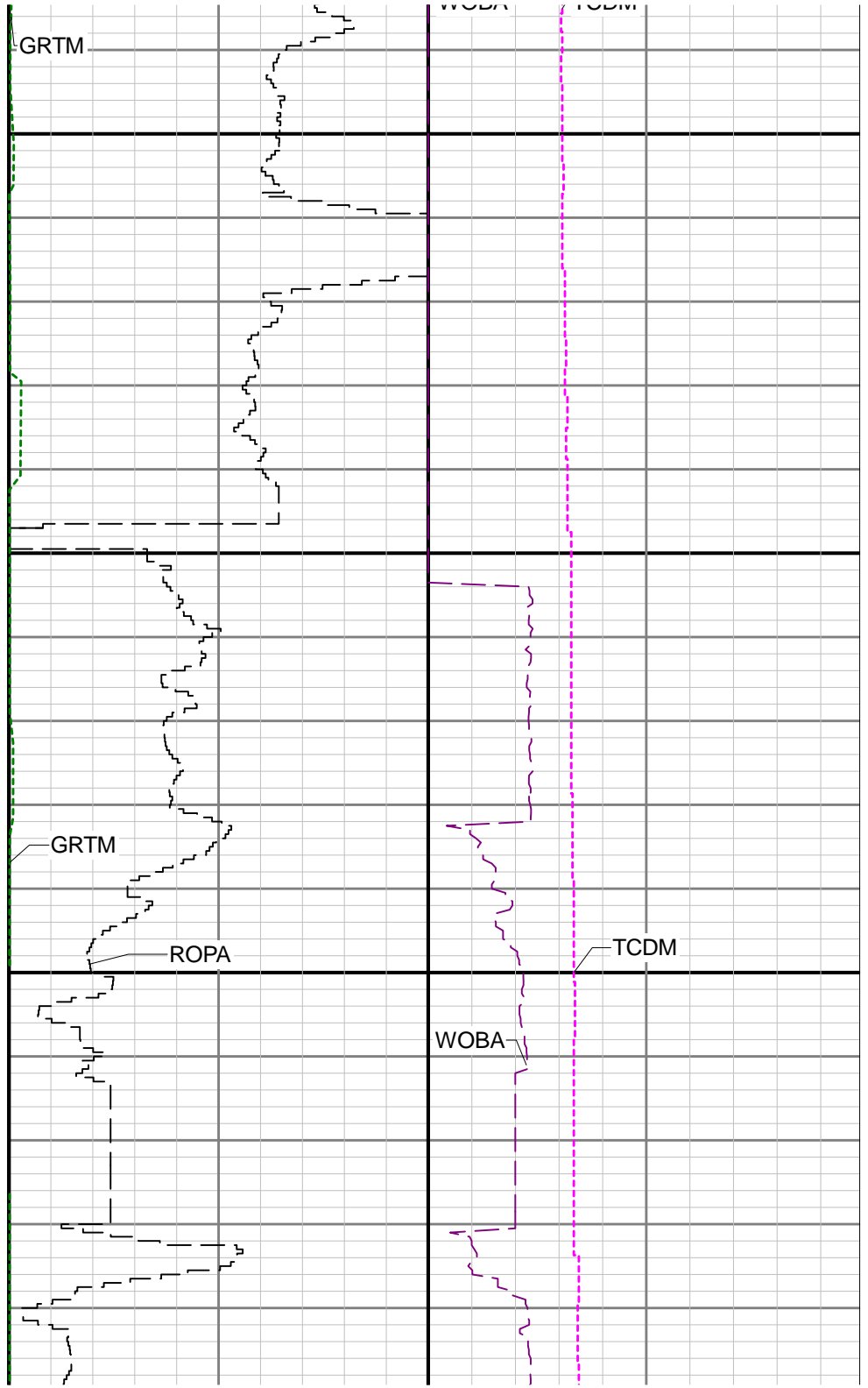
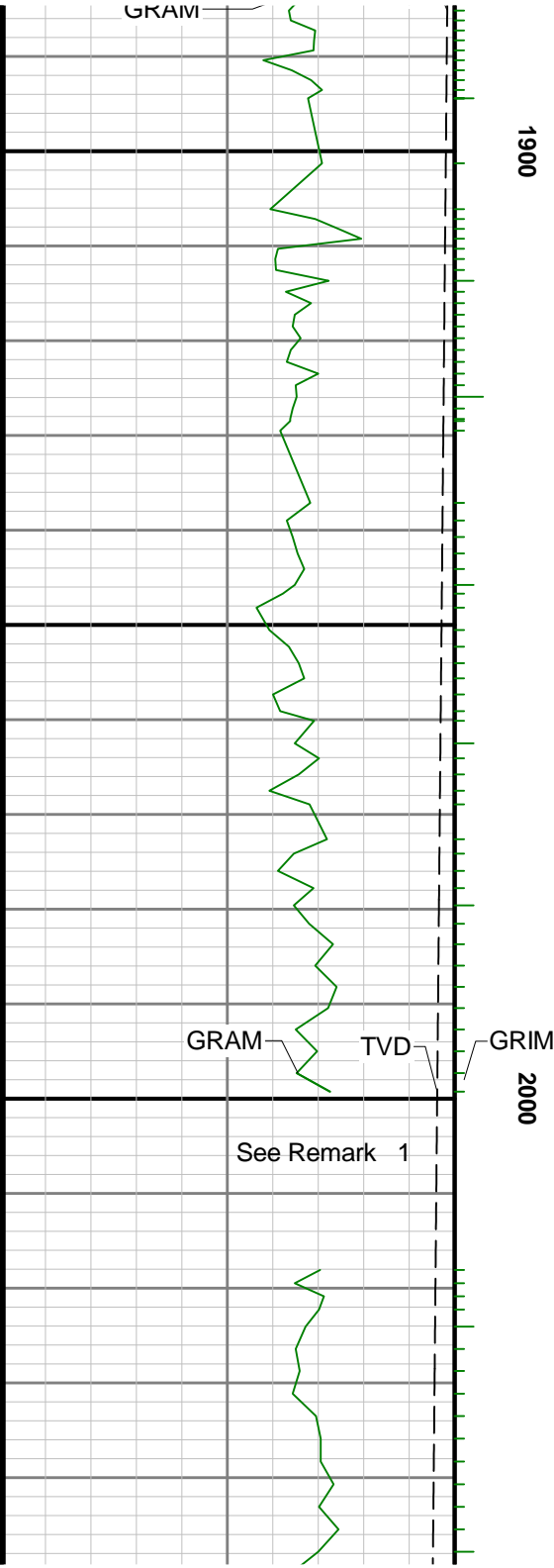
Date / Time	Run No.	Measured Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2016-04-01 19:16	1	1880.00	Water Based Mud	8.6	29	N/A	92.0	3/95	Active Pit	650	0.00
2016-04-02 13:00	1	2351.77	Oil Based Mud	10.0	66	N/A	0.0	68/32	Active Pit	35000	0.00
2016-04-03 13:00	1	7169.13	Oil Based Mud	10.1	49	N/A	0.0	73/29	Active Pit	35000	0.00
2016-04-04 12:00	1	9294.64	Oil Based Mud	10.0	45	N/A	0.0	74/26	Active Pit	43000	0.00
2016-04-05 02:15	1	11278.18	Oil Based Mud	9.9	42	N/A	0.0	74/26	Active Pit	39000	0.00

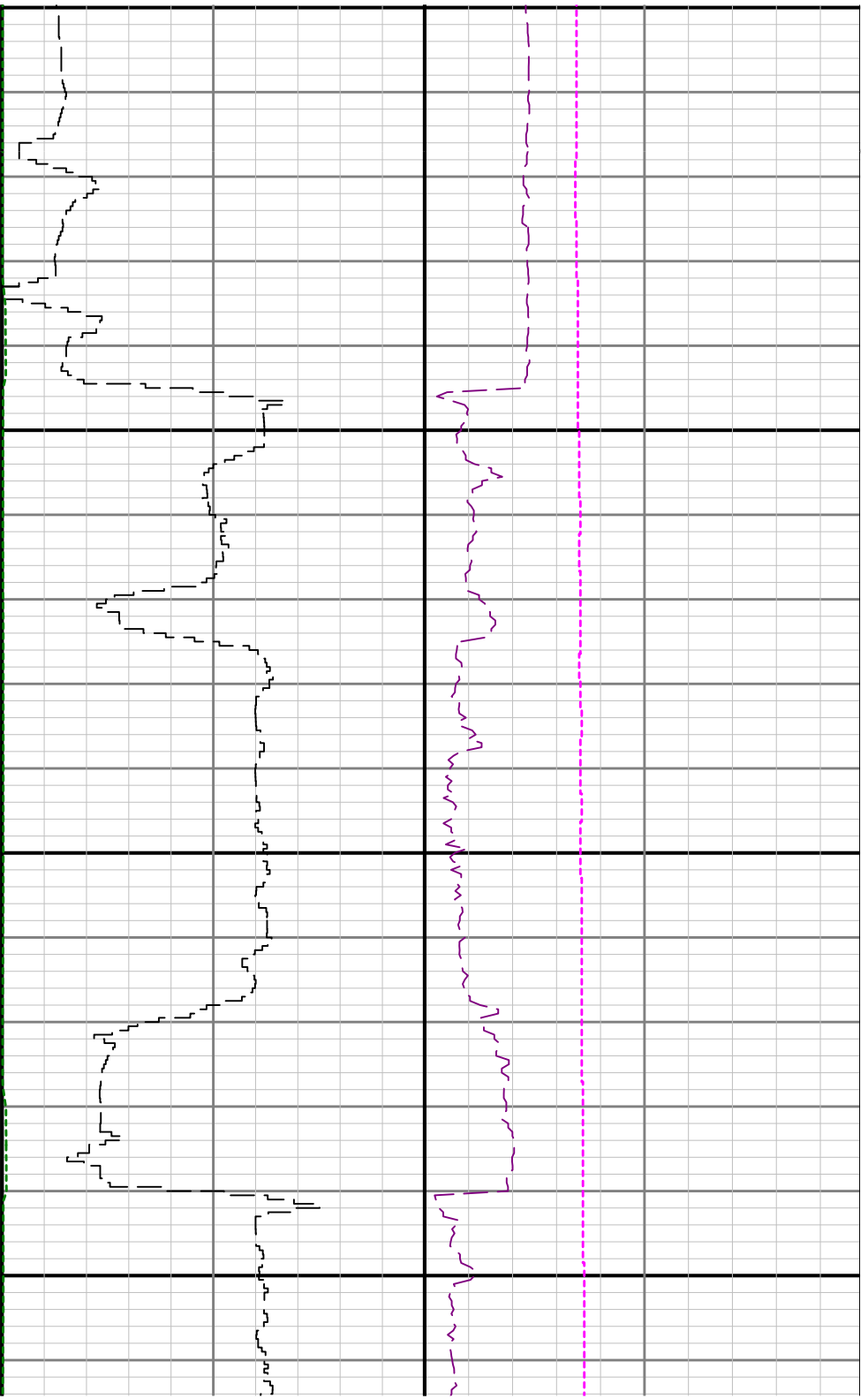
Equipment and Service Data

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
1	ATC_SU	12163814	Near Bit Inclination	5.93	6.54	7.000	4.330
1	ATC_SU	12163814	Near Bit VSS	5.93	6.54	7.000	4.330
1	ATC_MWD	13013035	Gamma (single)	2.71	12.71	7.000	3.250
1	ATC_MWD	13013035	Directional (mag)	12.23	22.23	7.000	3.250

Comments

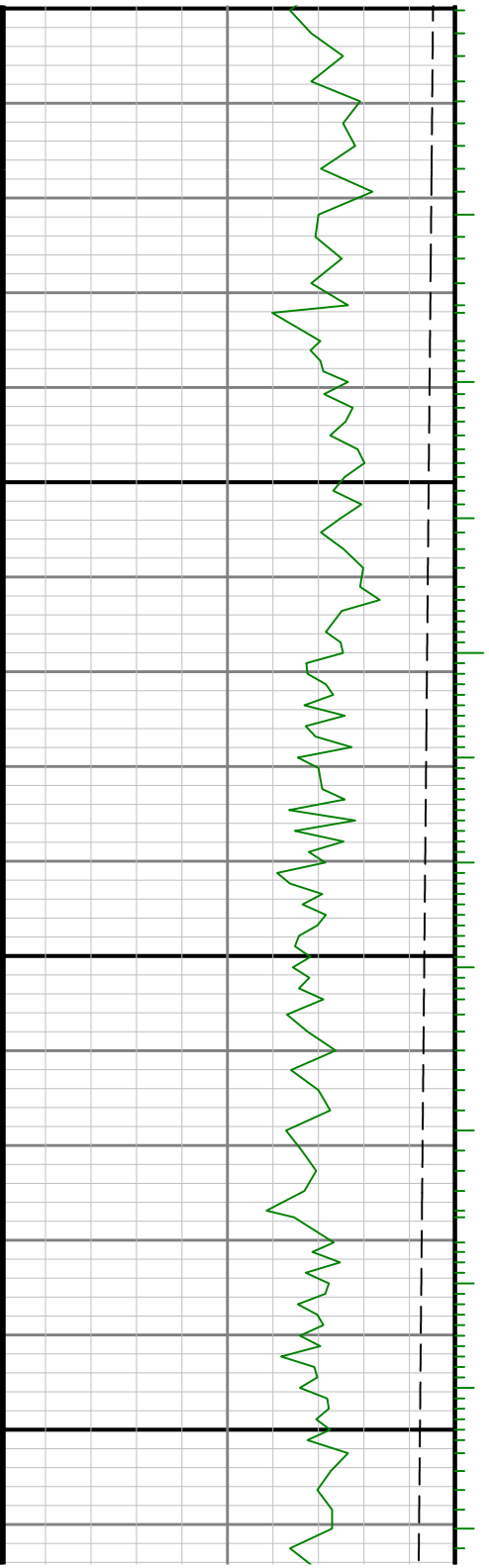
- 1 Baker Hughes Run 1 utilized a 6 3/4 inch AutoTrak Curve (Rotary Steerable, Directional and Gamma Ray) tool behind an 8 1/2 inch bit and rotary steerable assembly from 1880.0 ft. MD (1880 ft. TVD) to 11933.0 ft. MD (6802.27 ft. TVD).
- 2 Depth measurements were obtained from a depth control system 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.

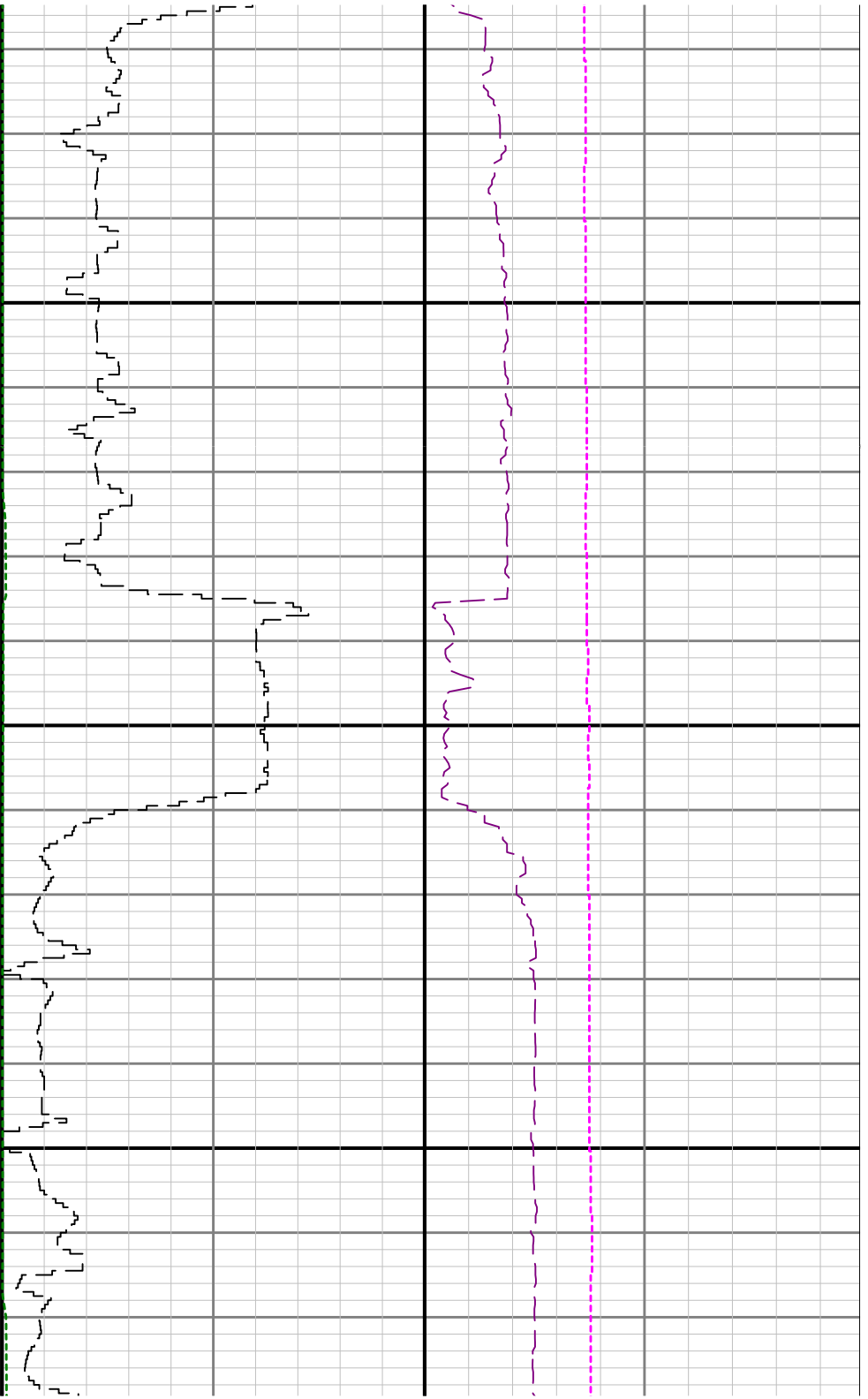




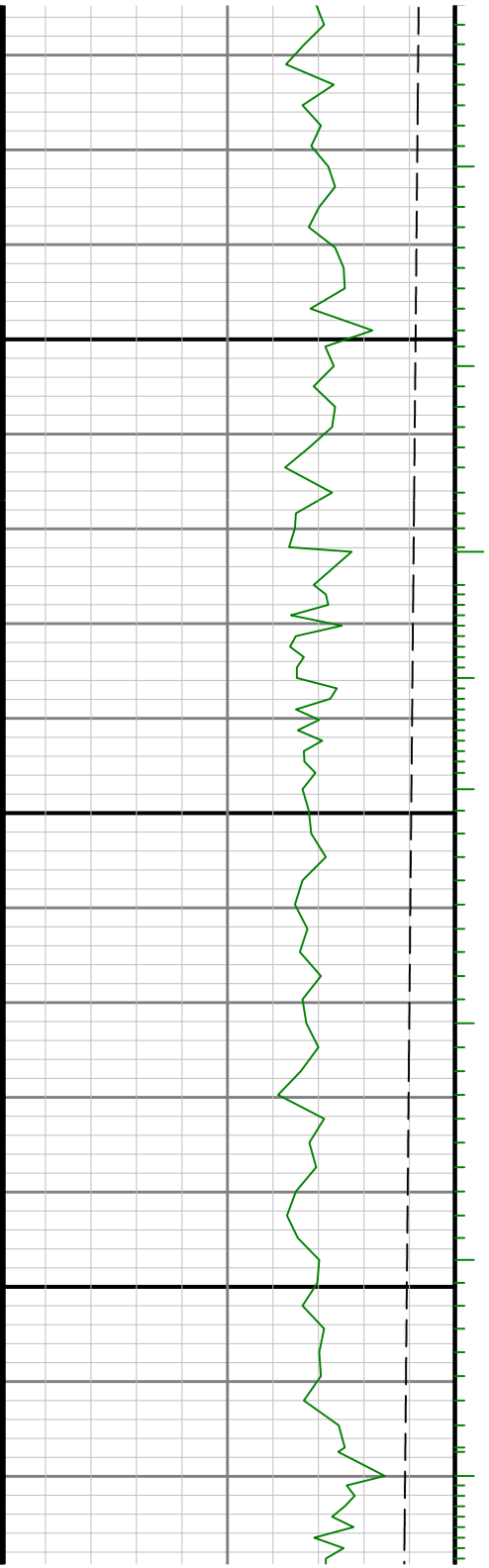
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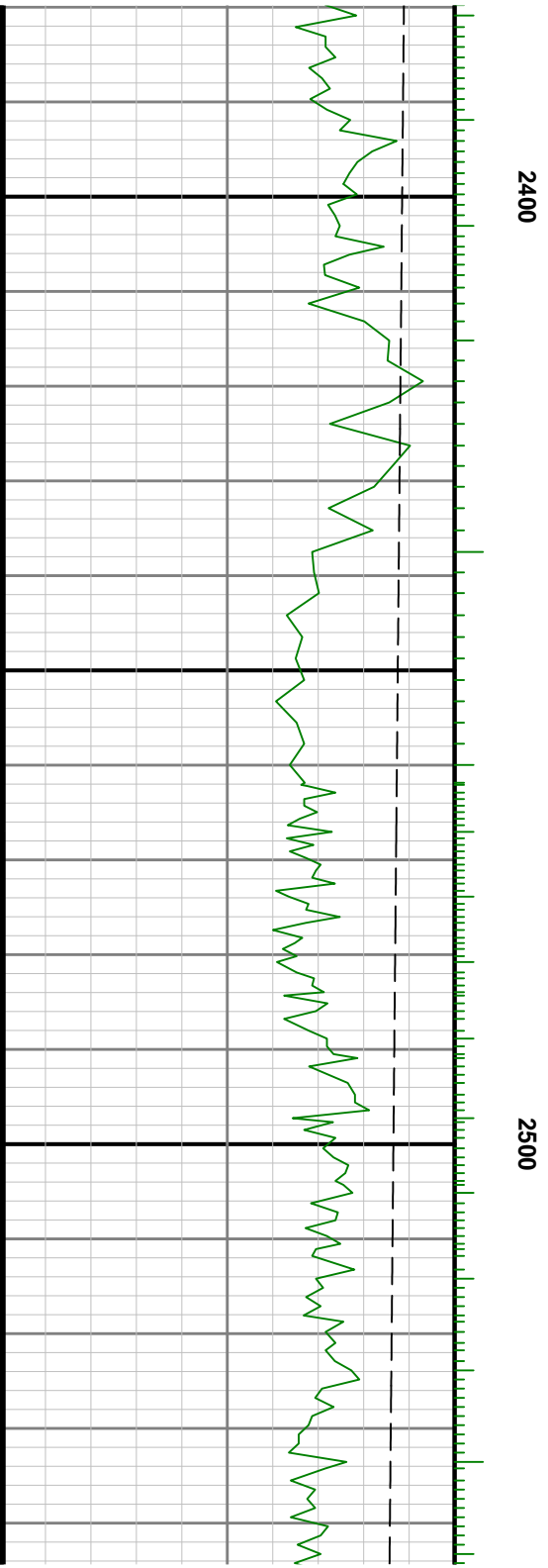
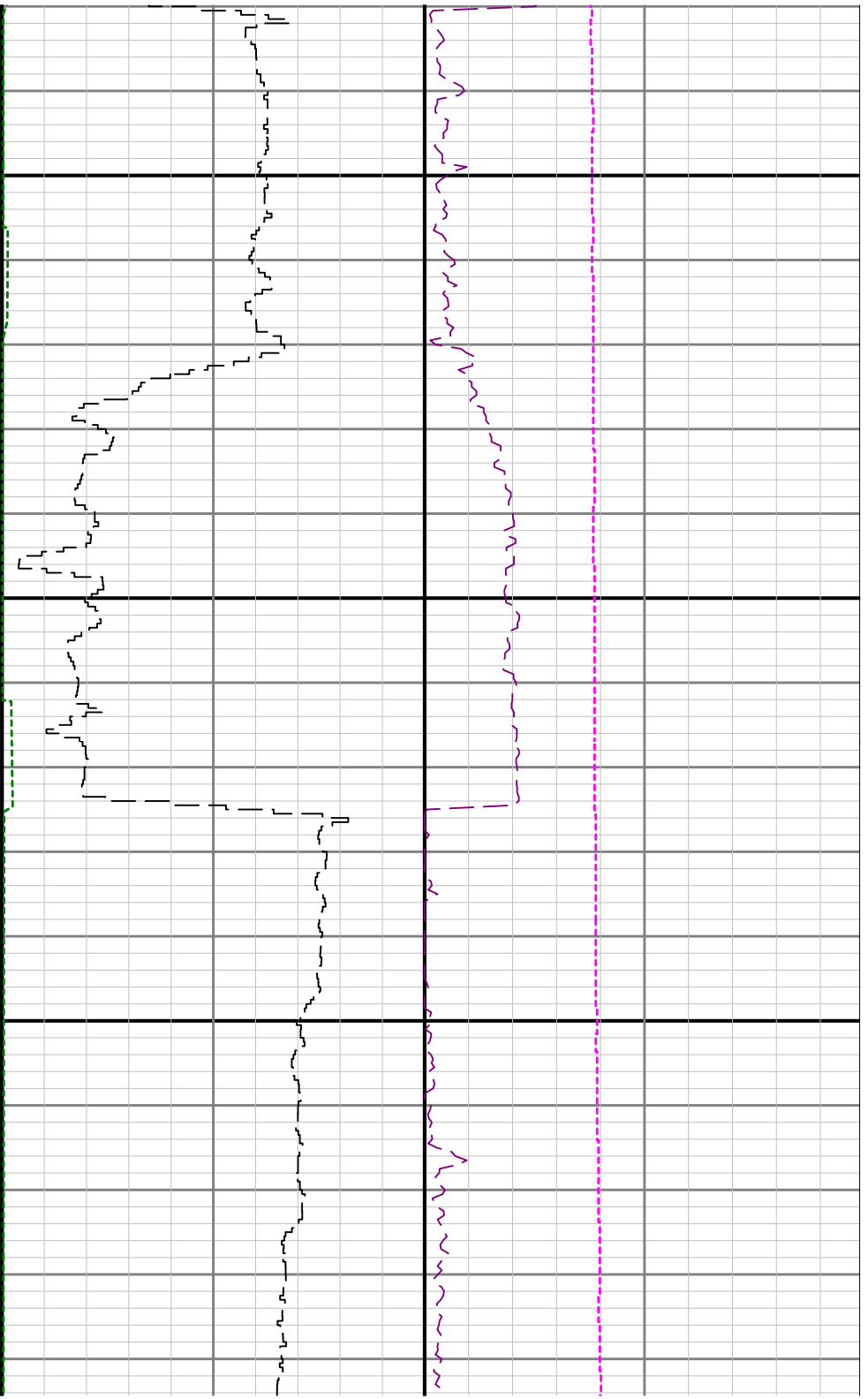
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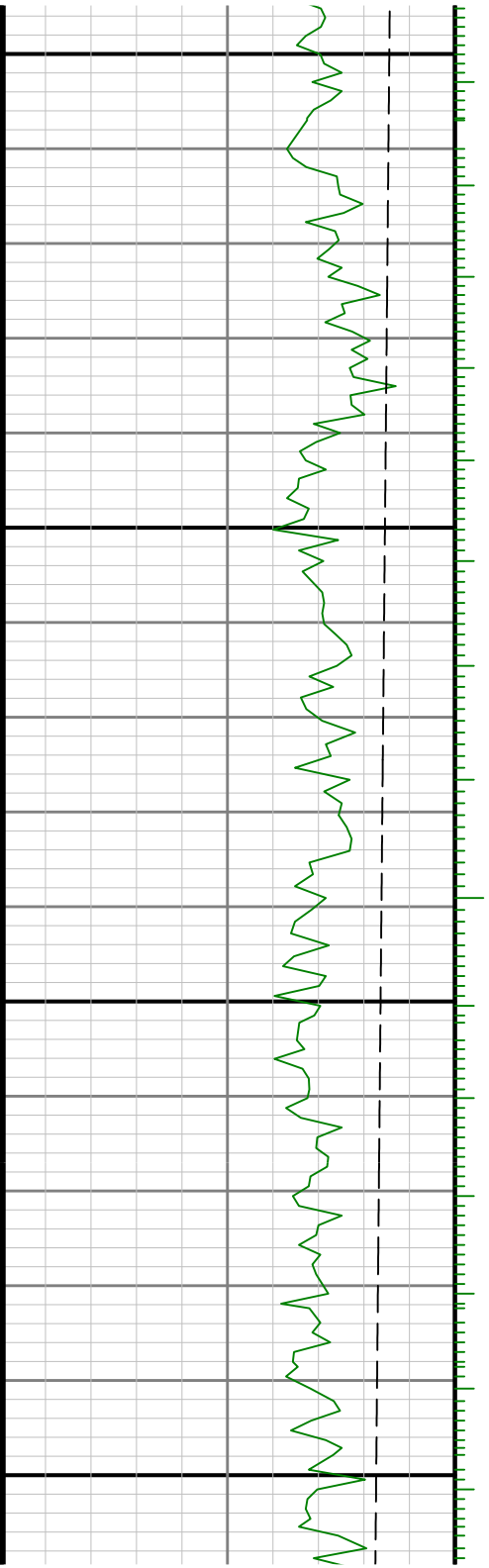


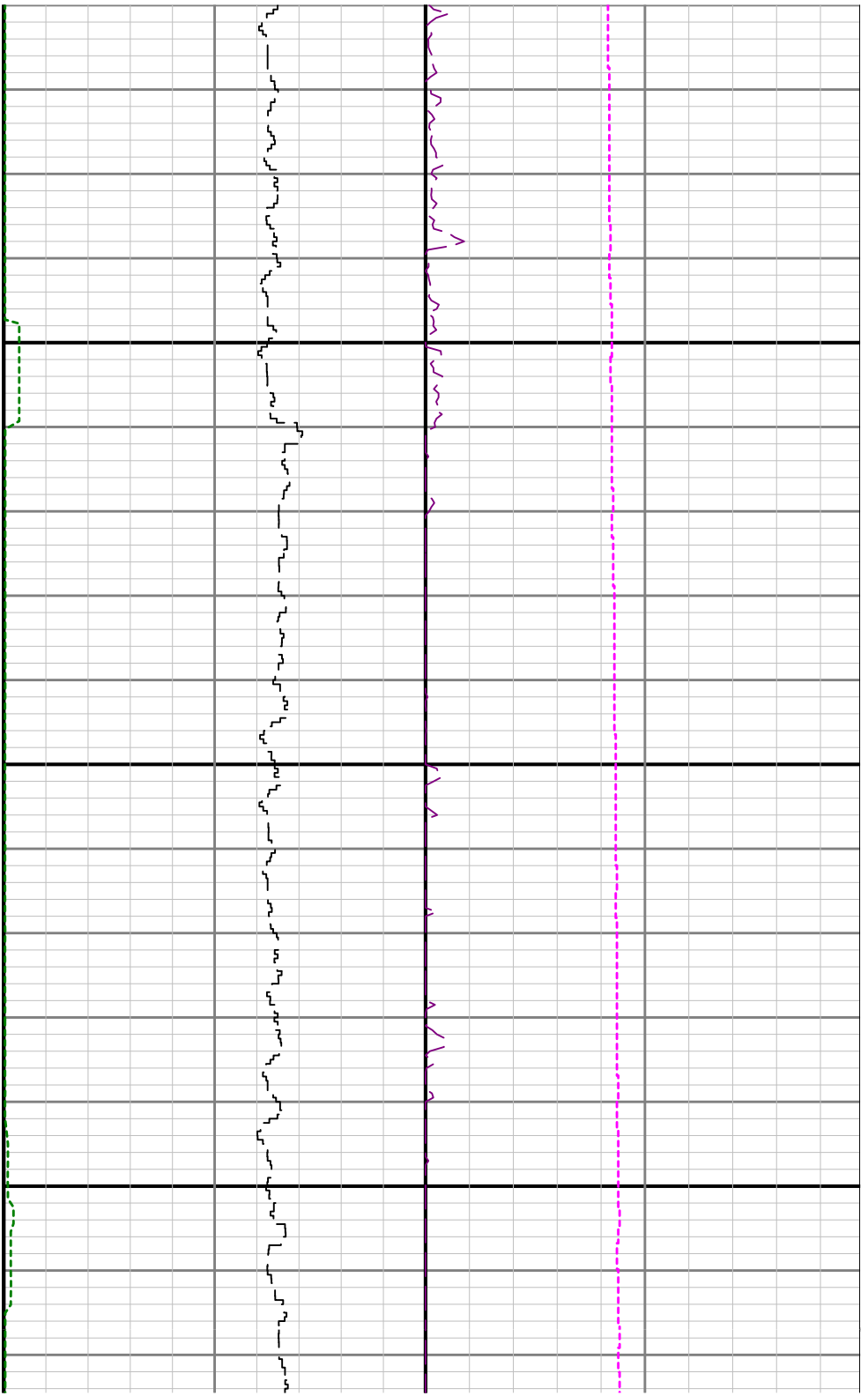




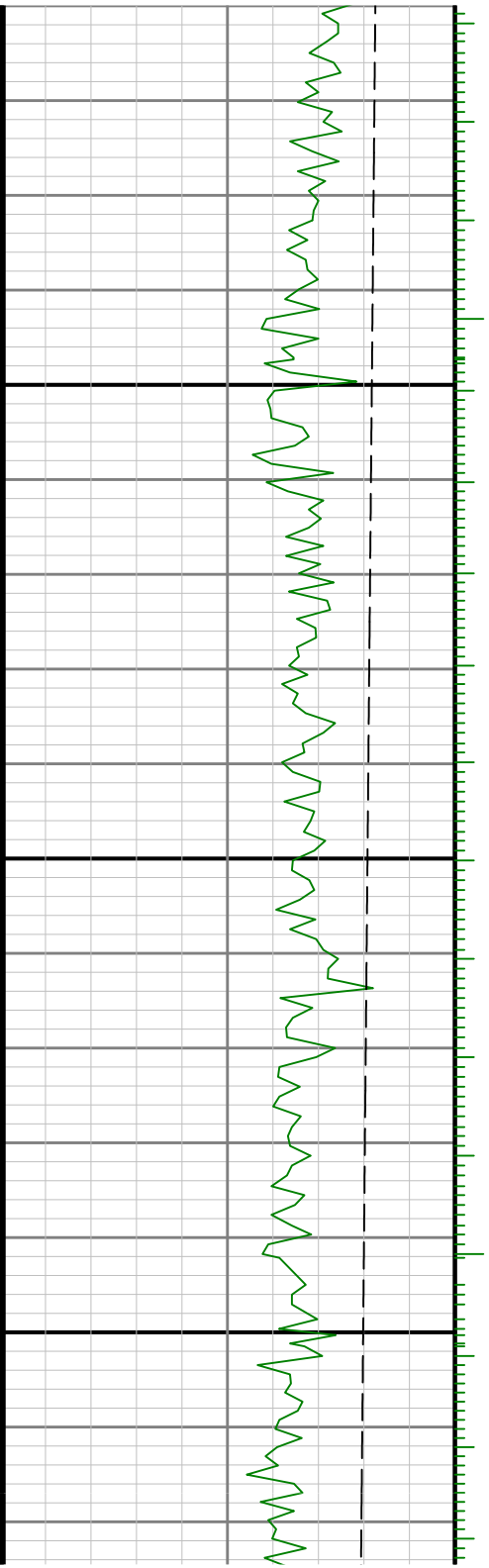
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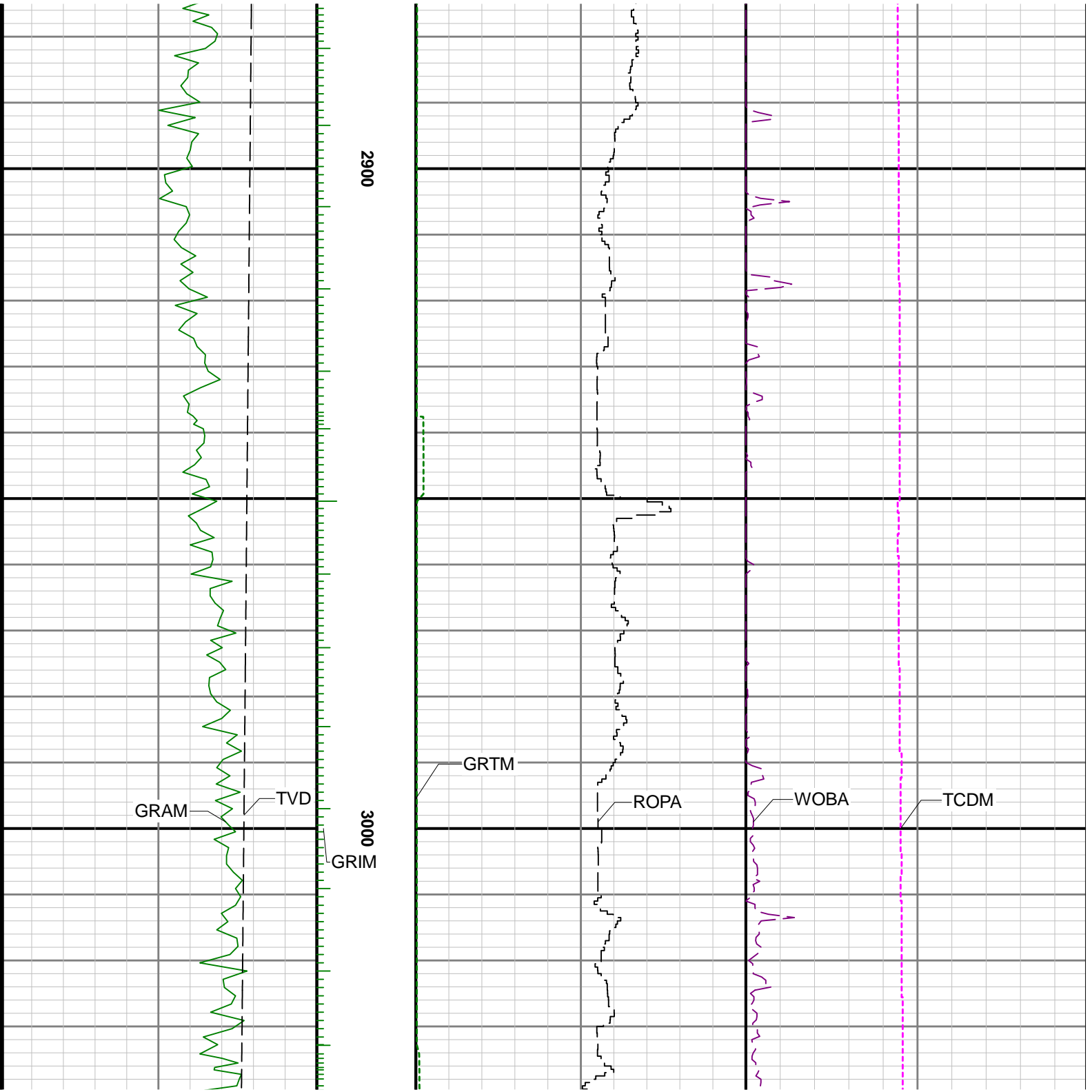
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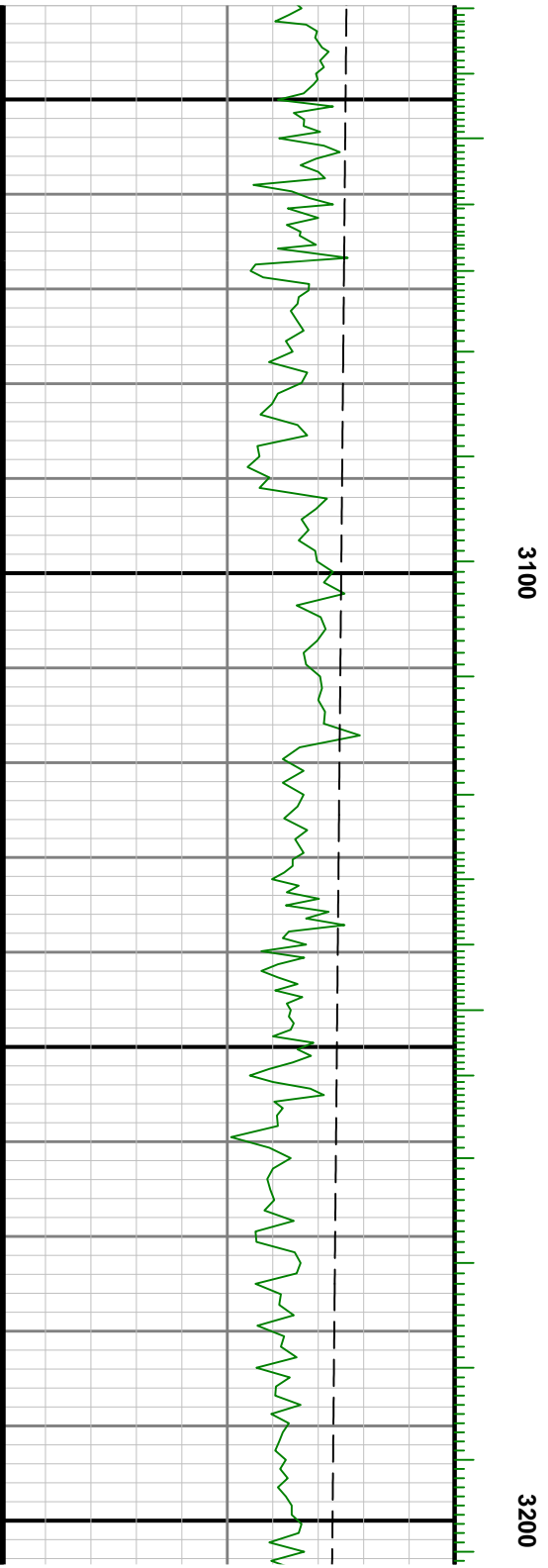
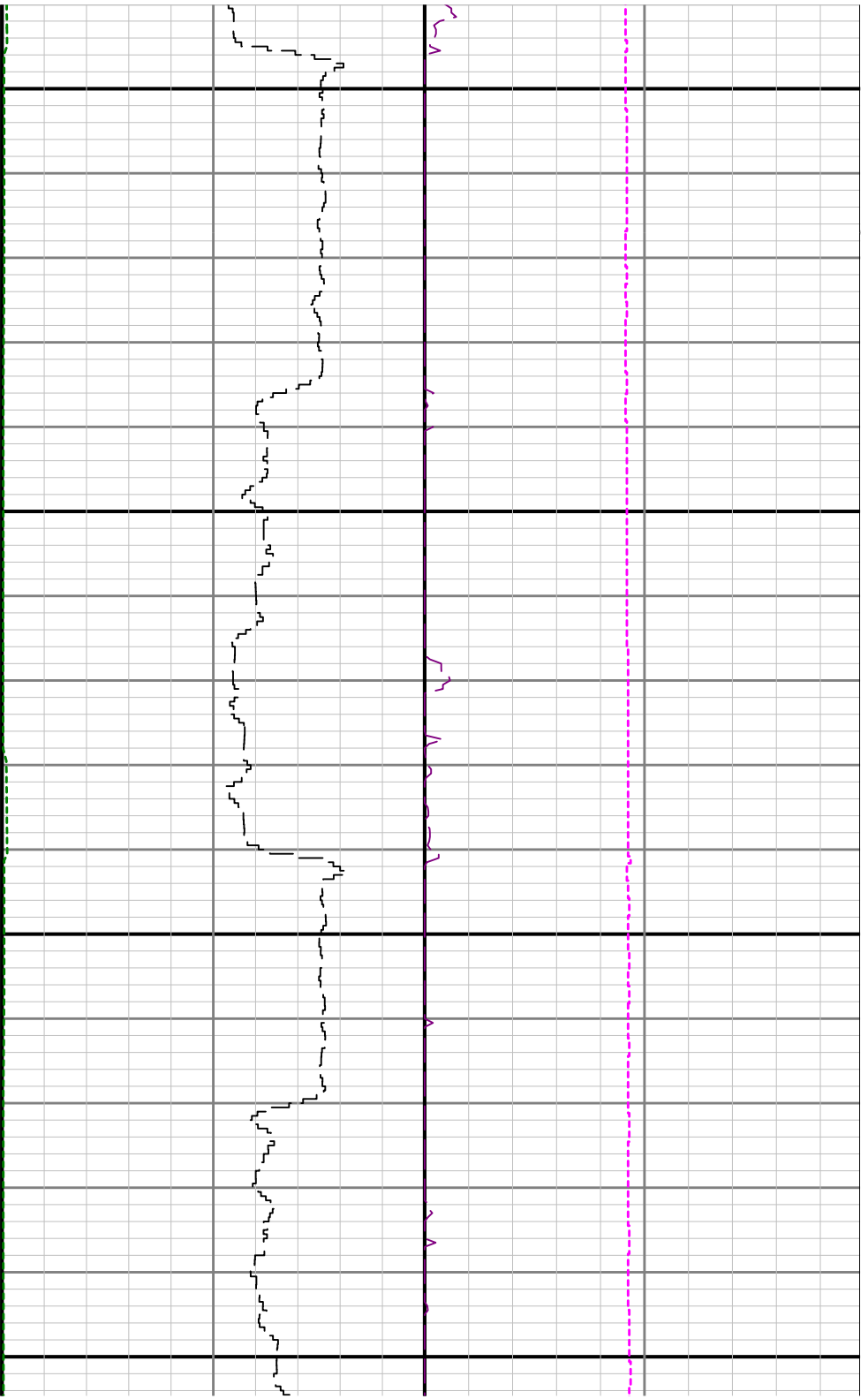


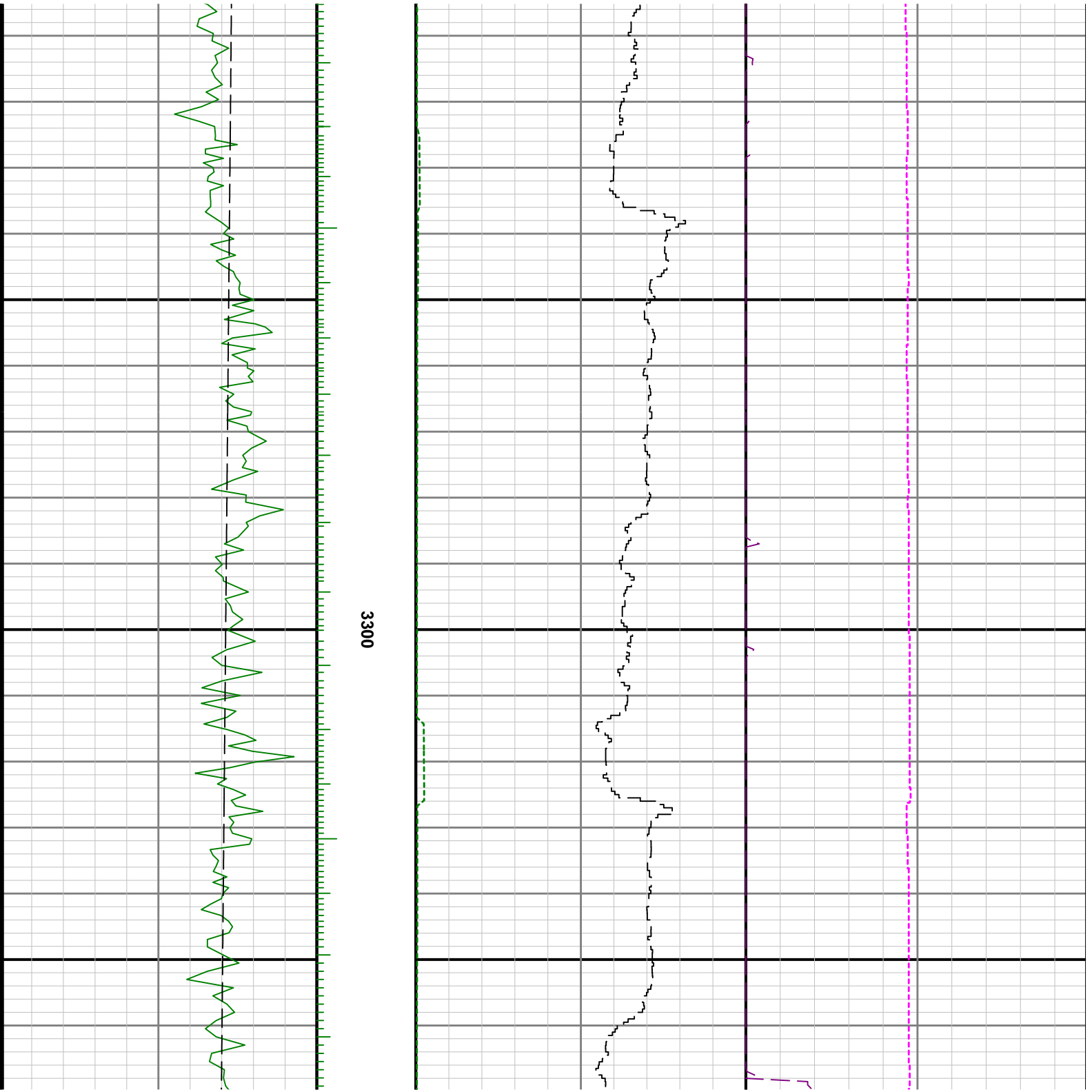


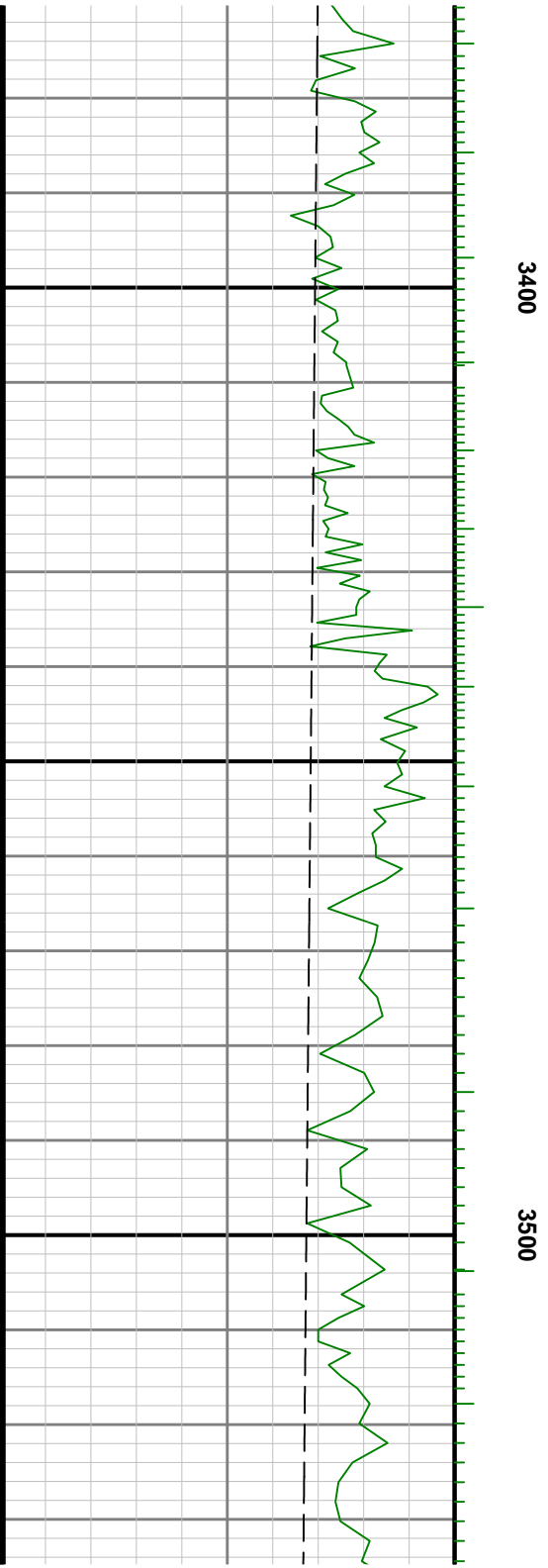
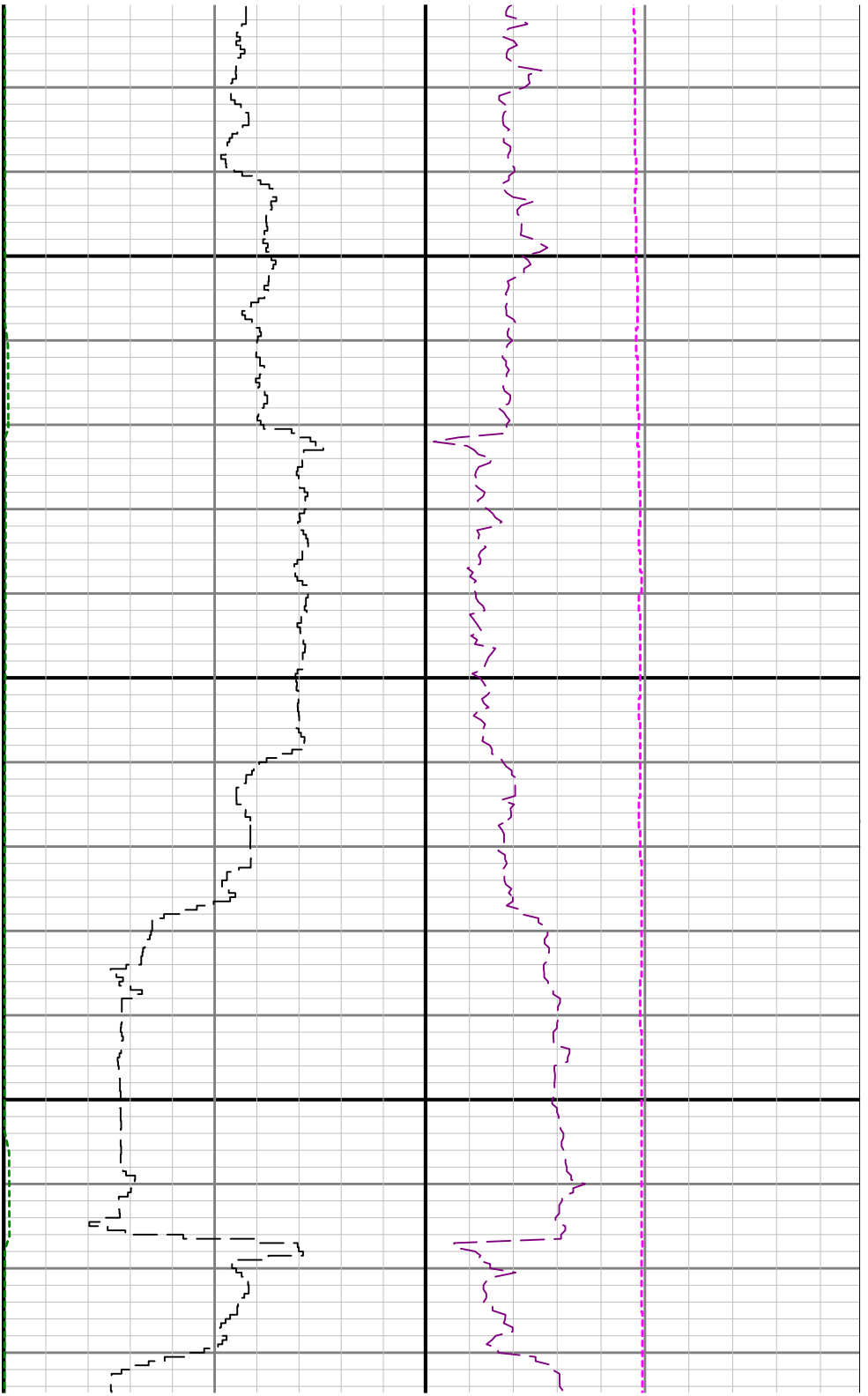
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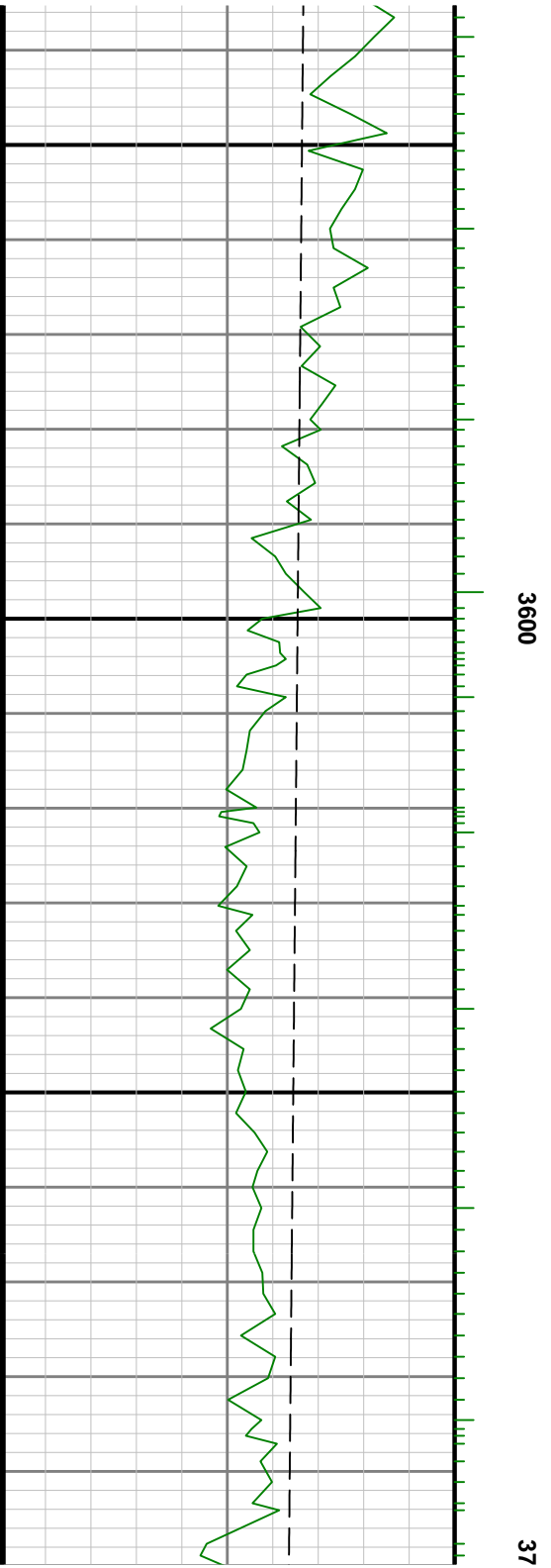
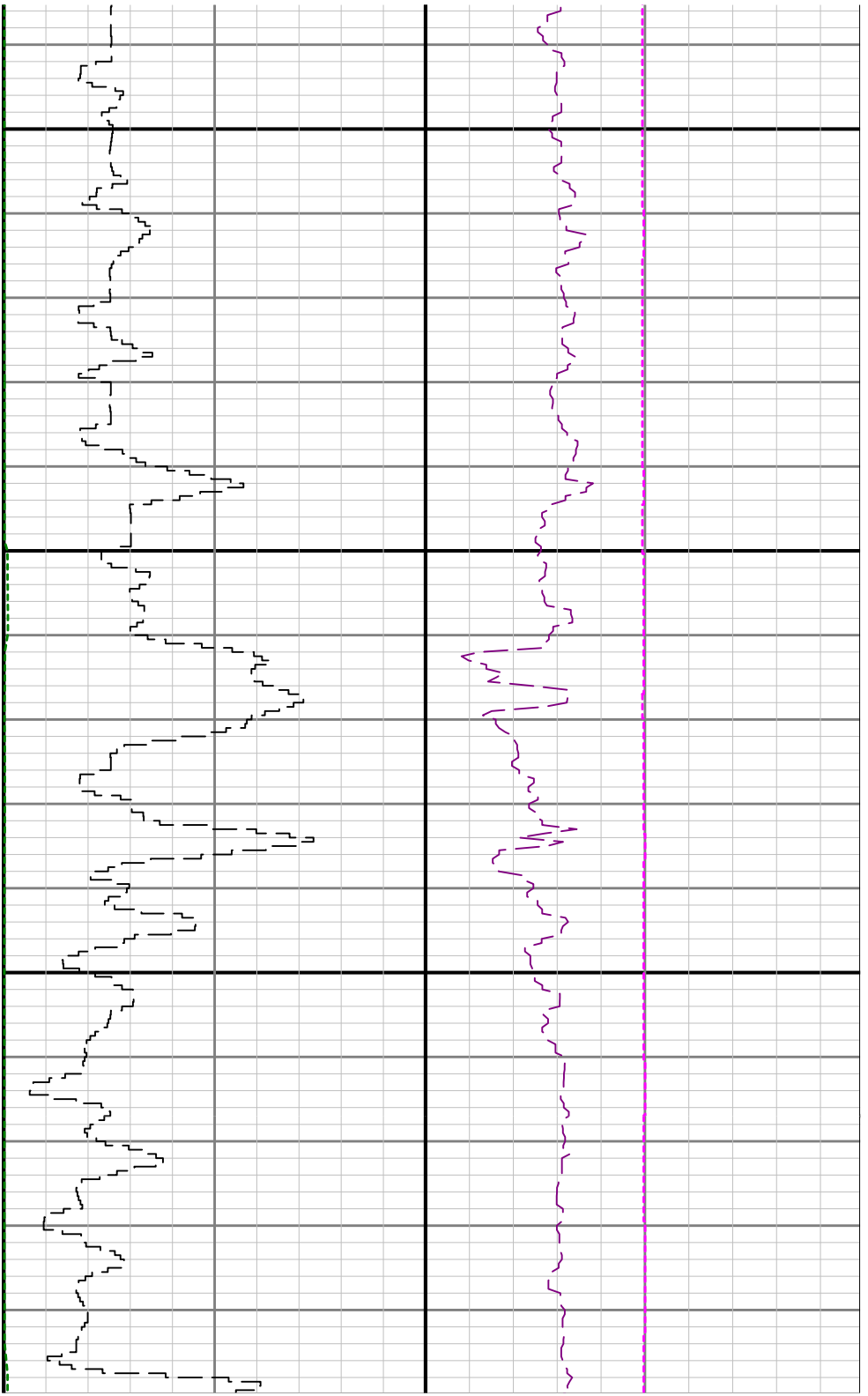


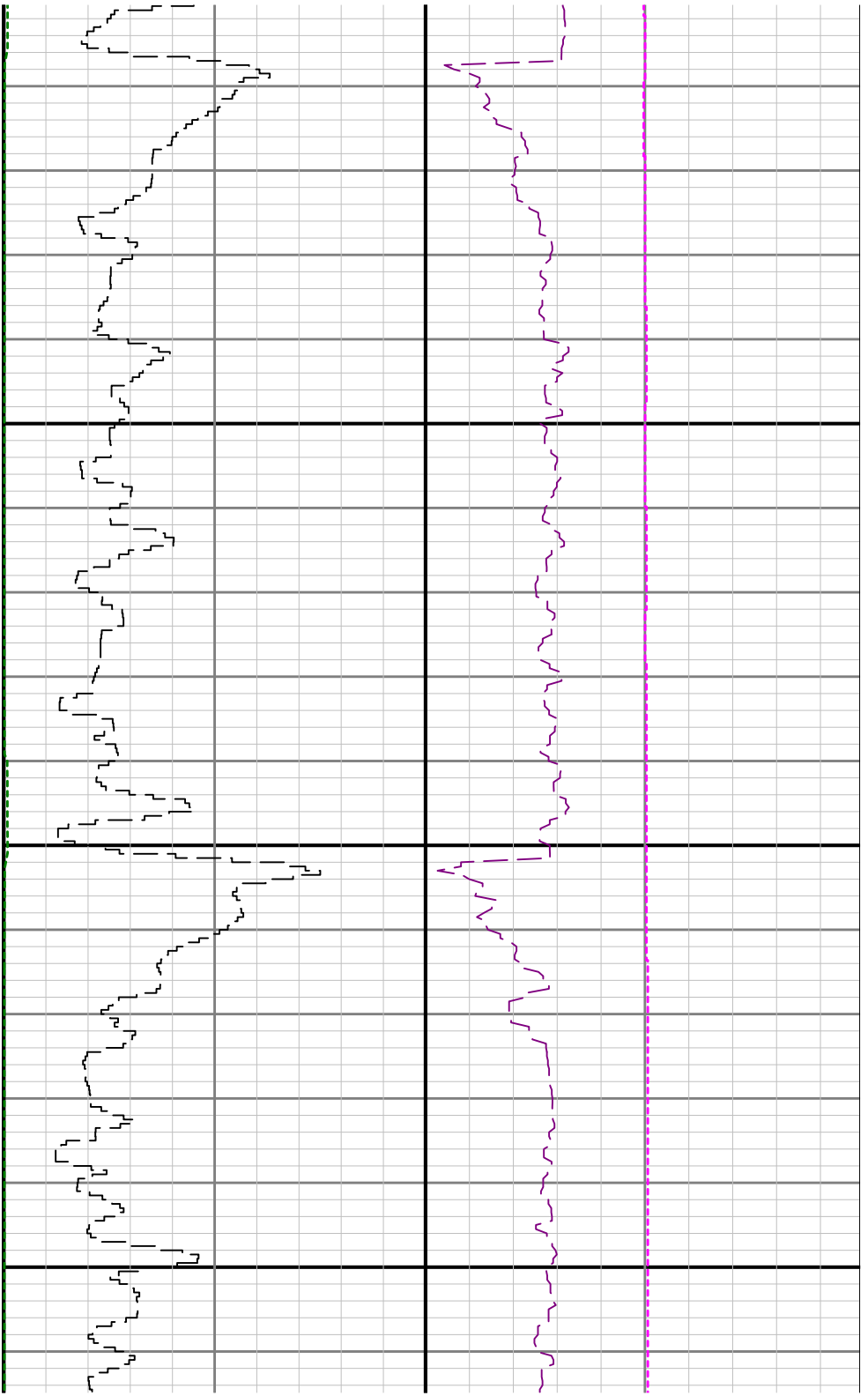






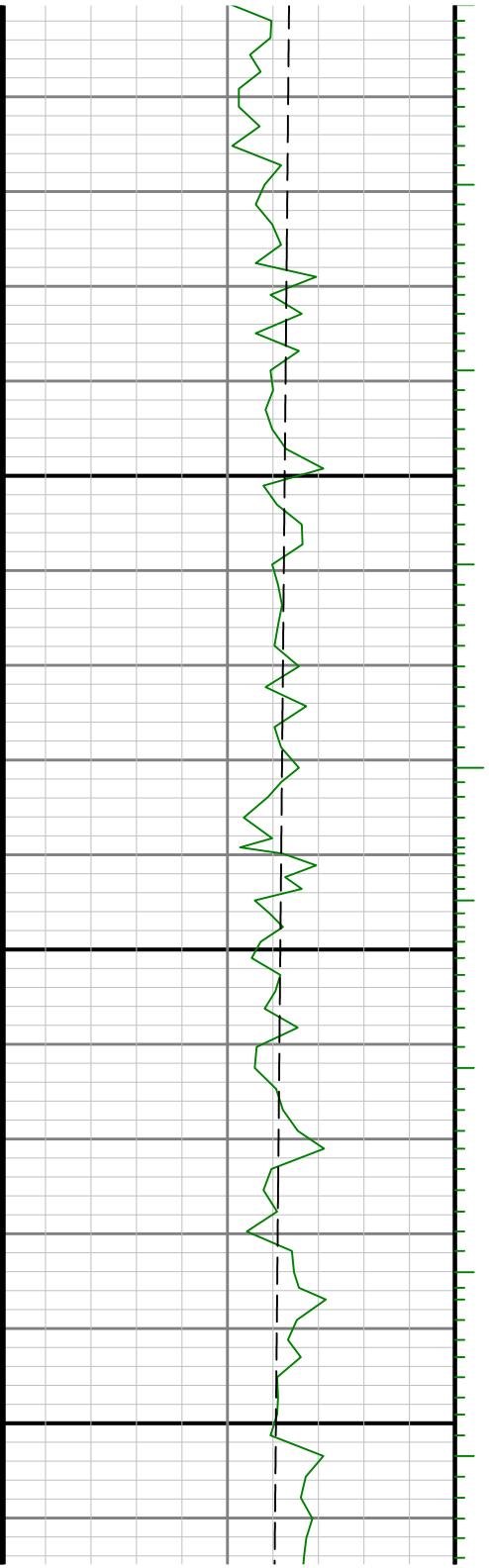


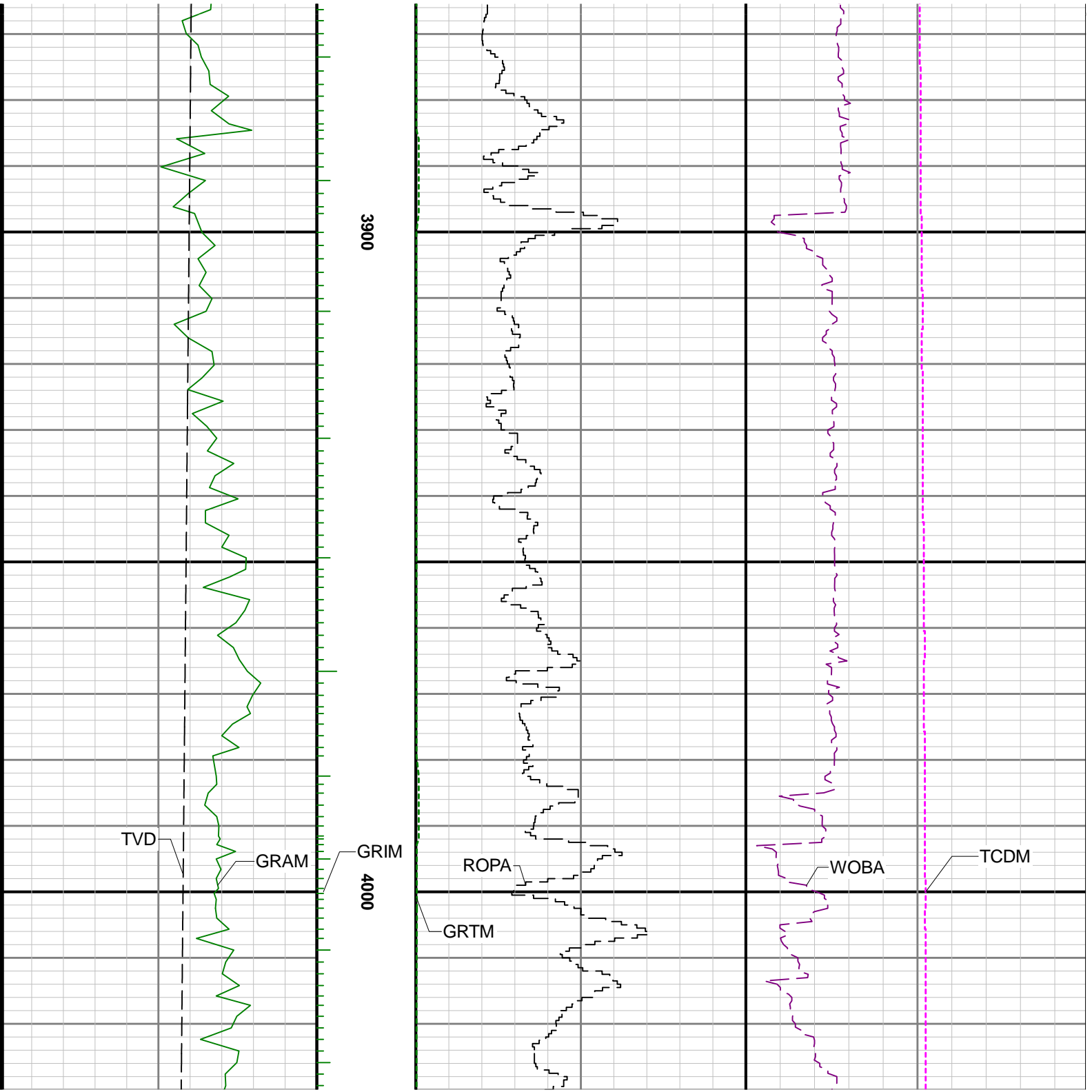


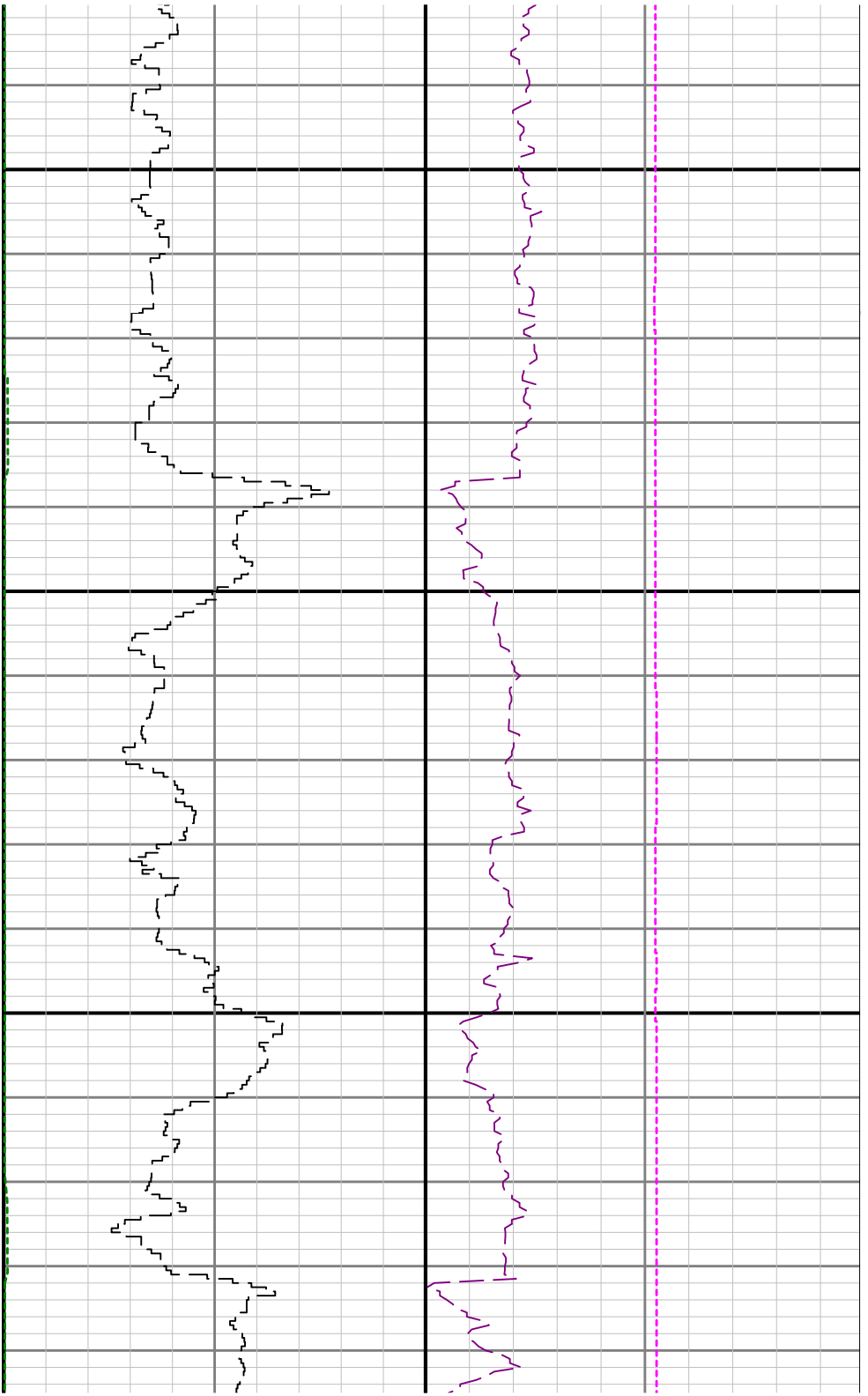


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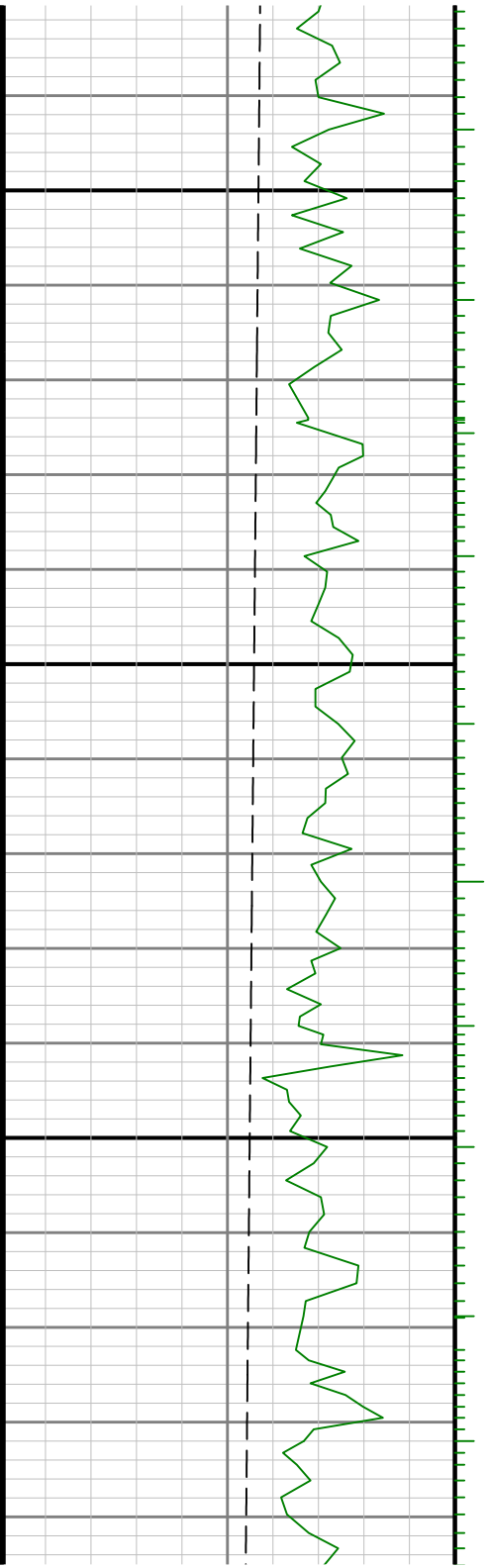
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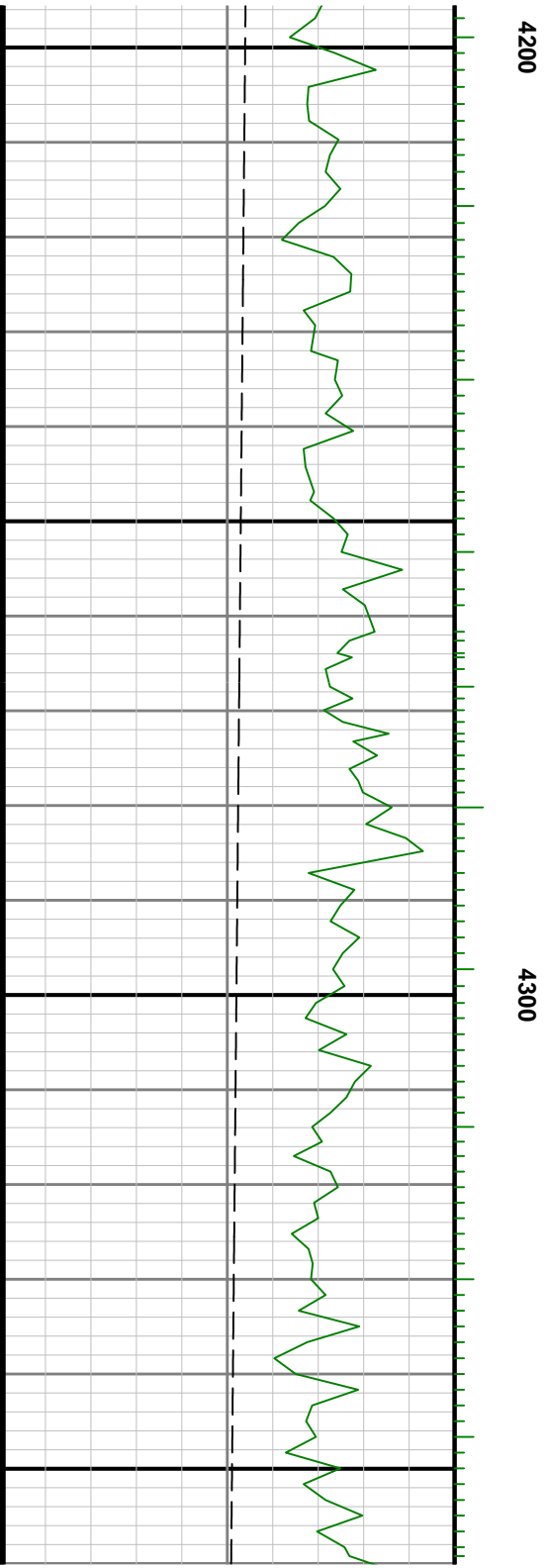
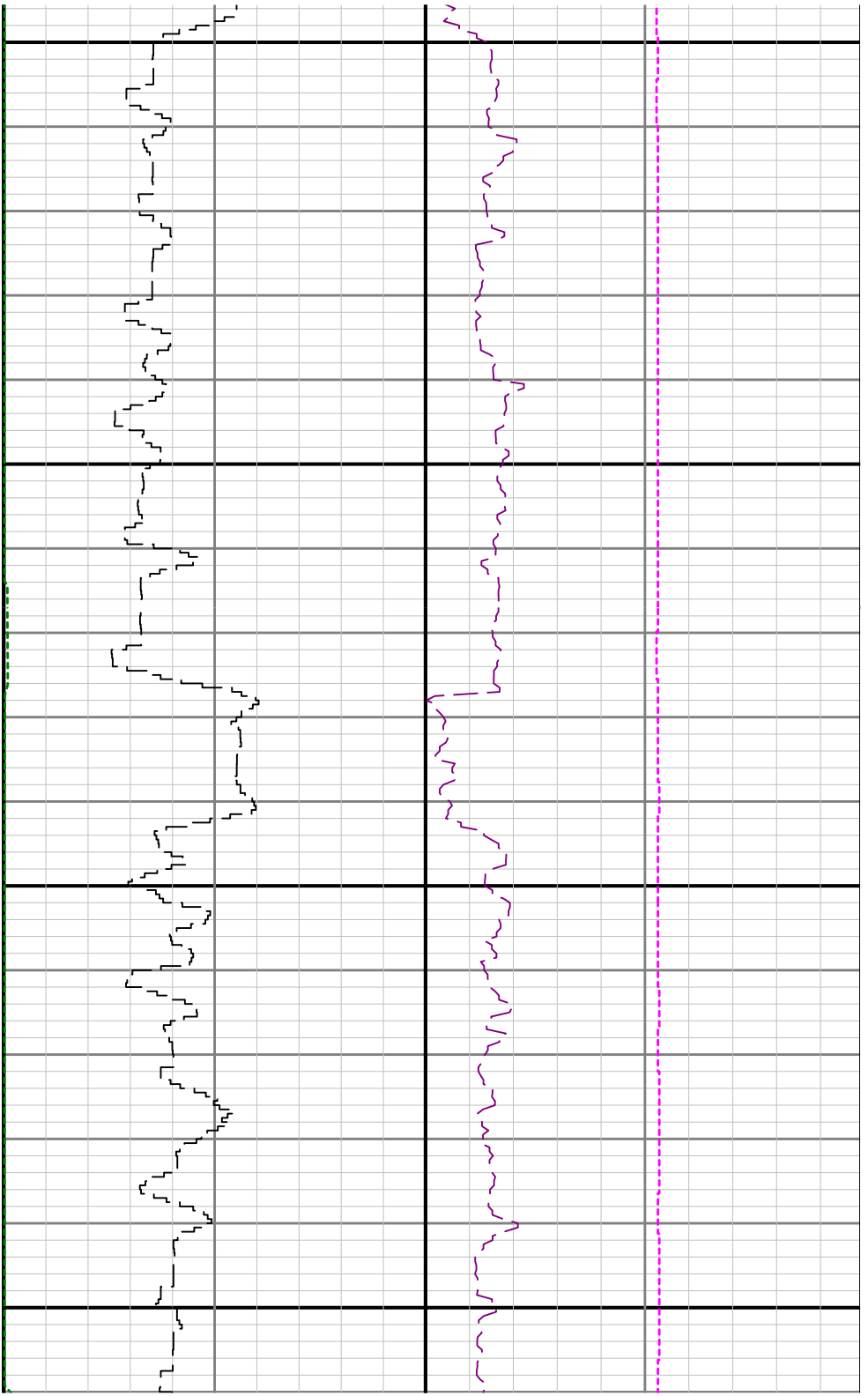


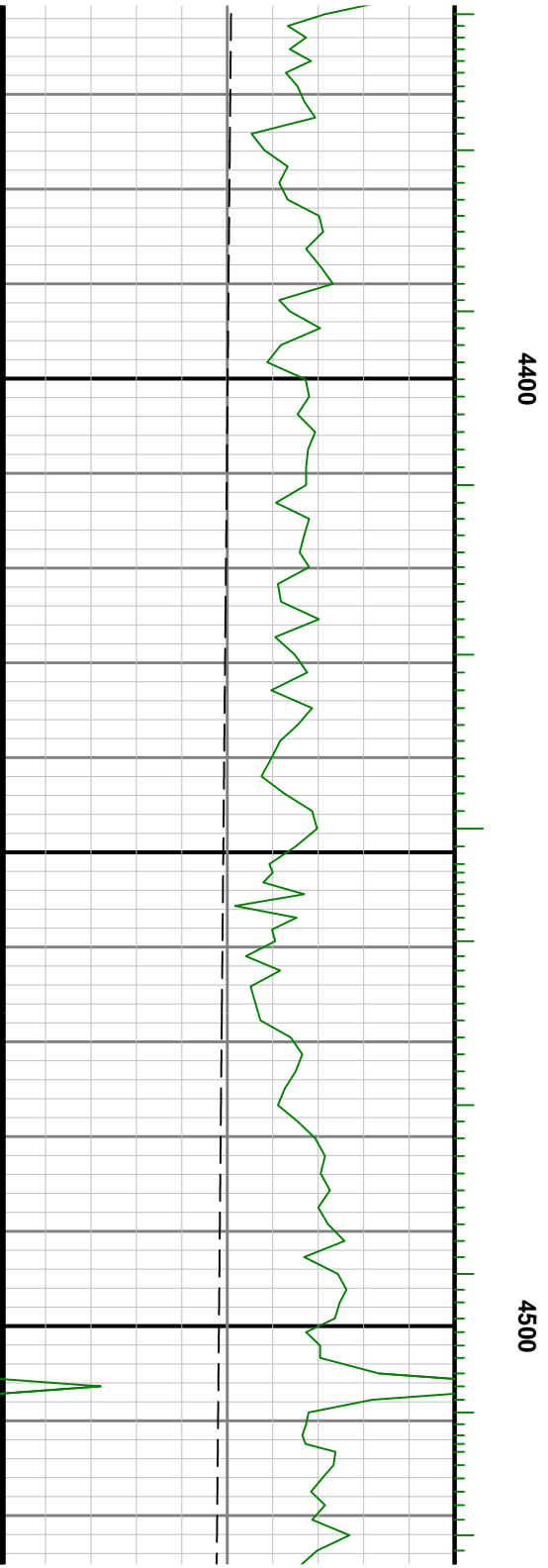
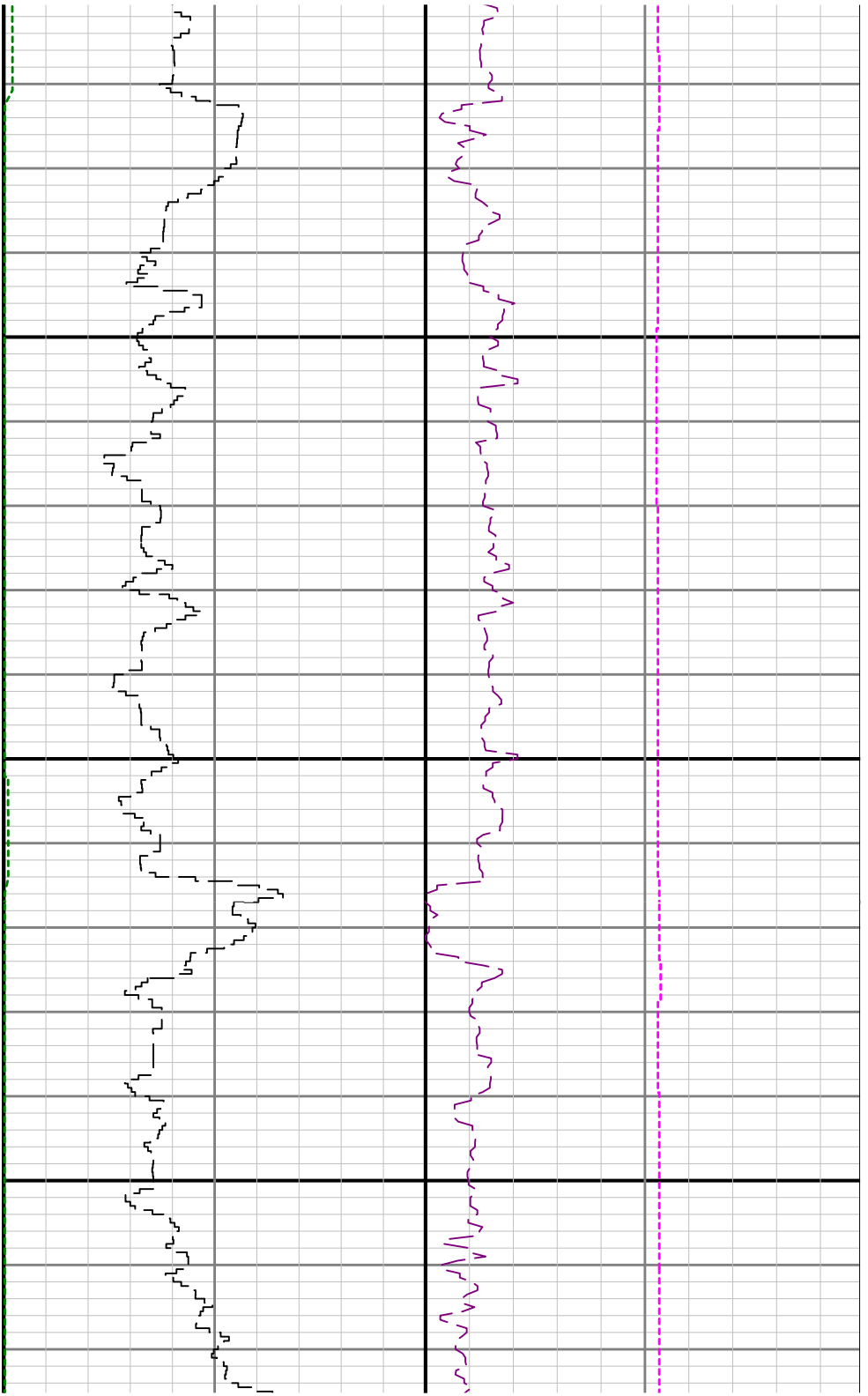


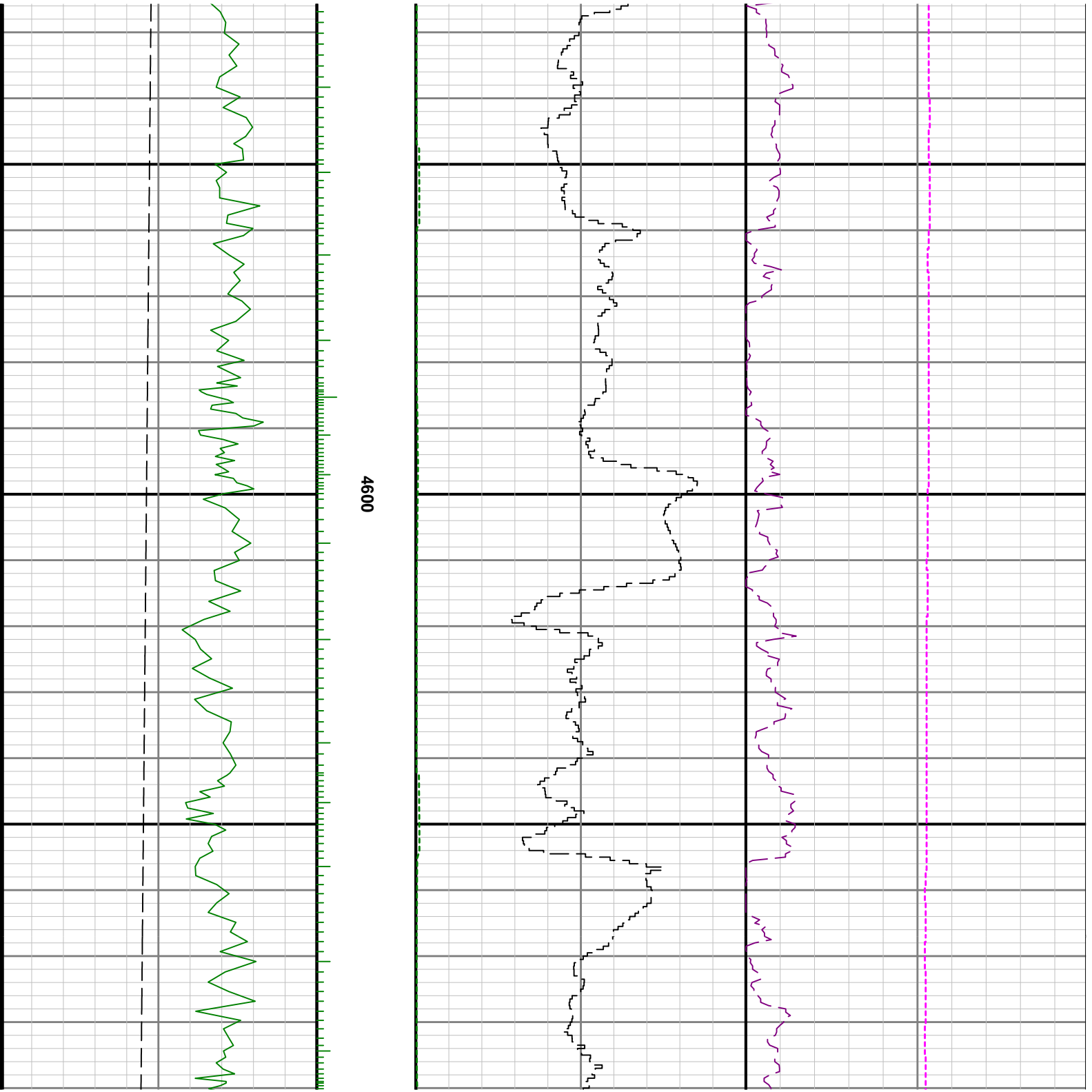


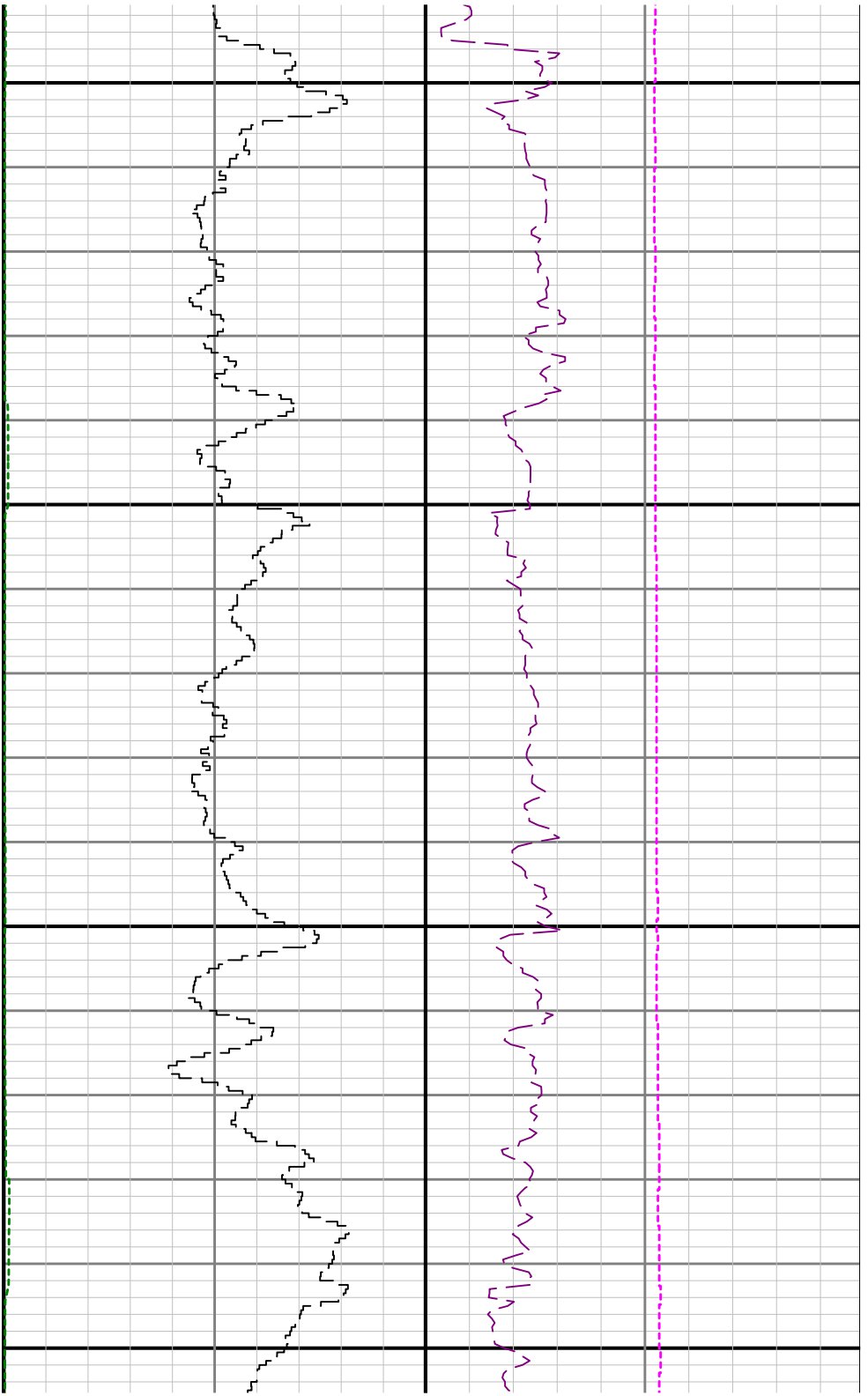
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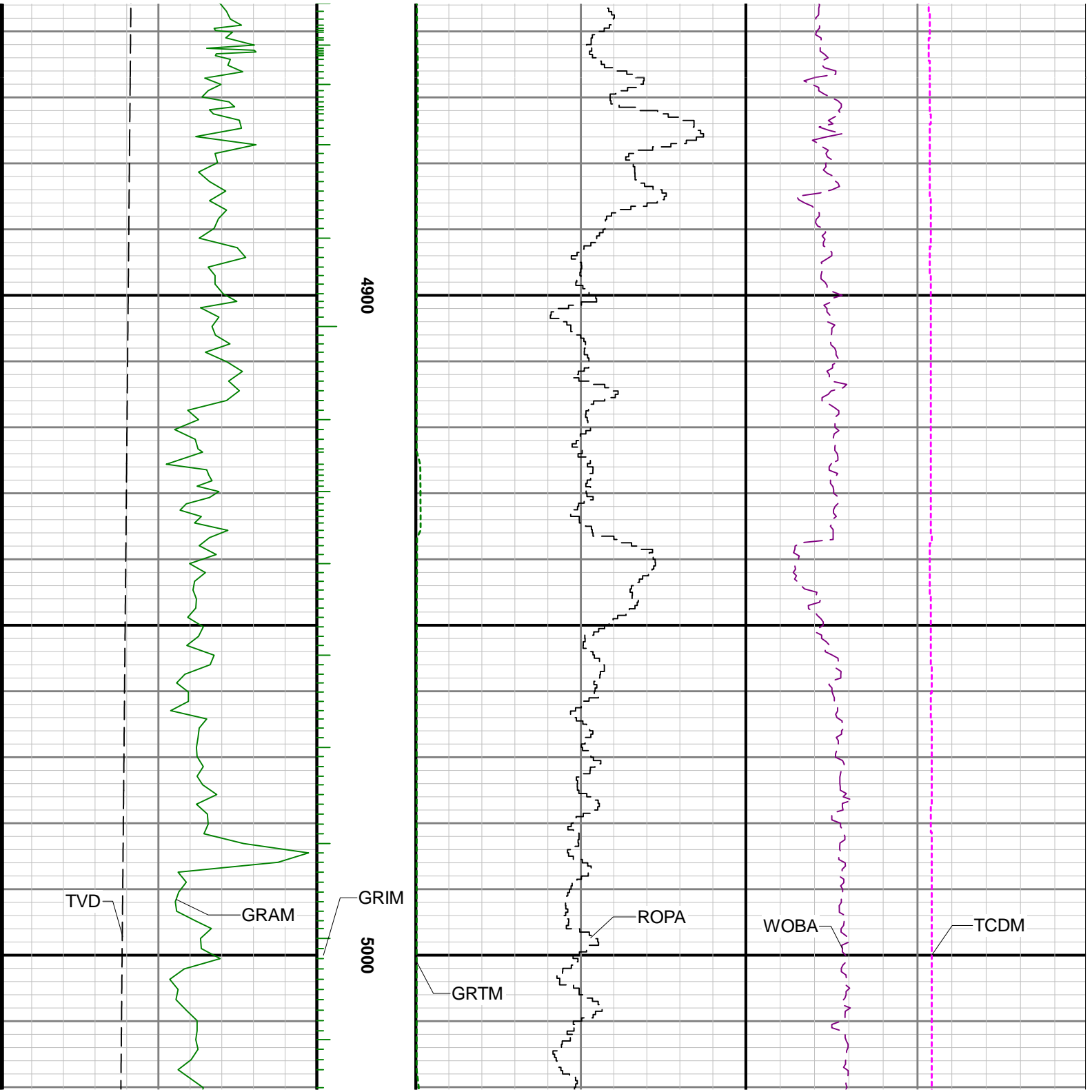


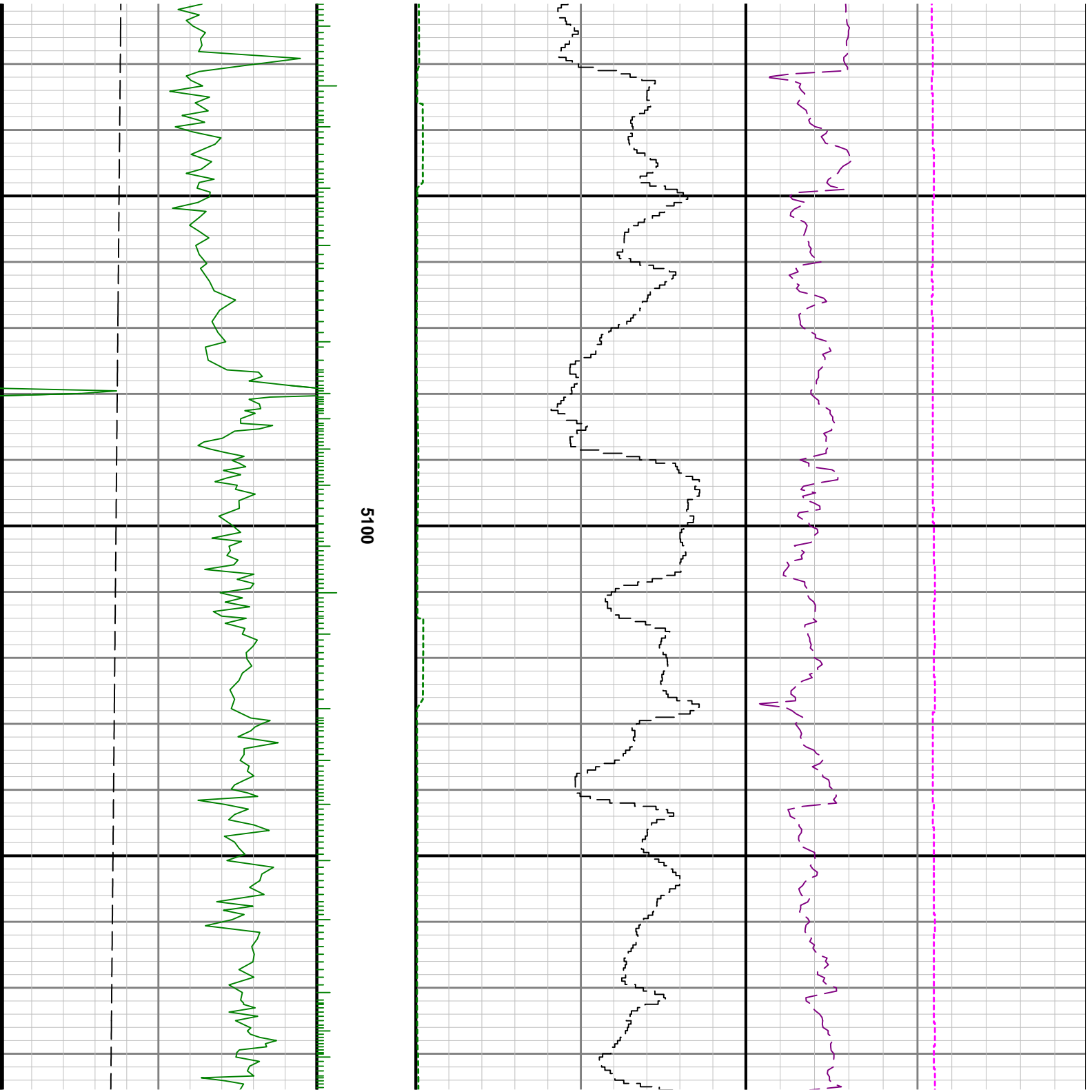


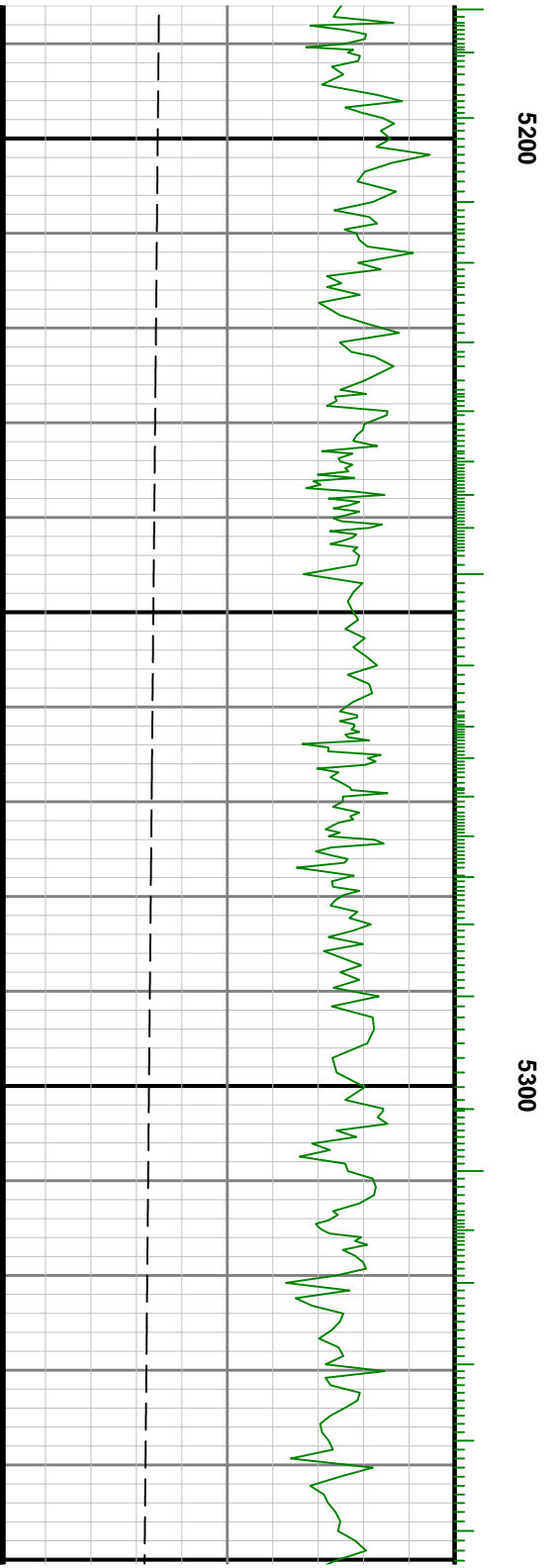
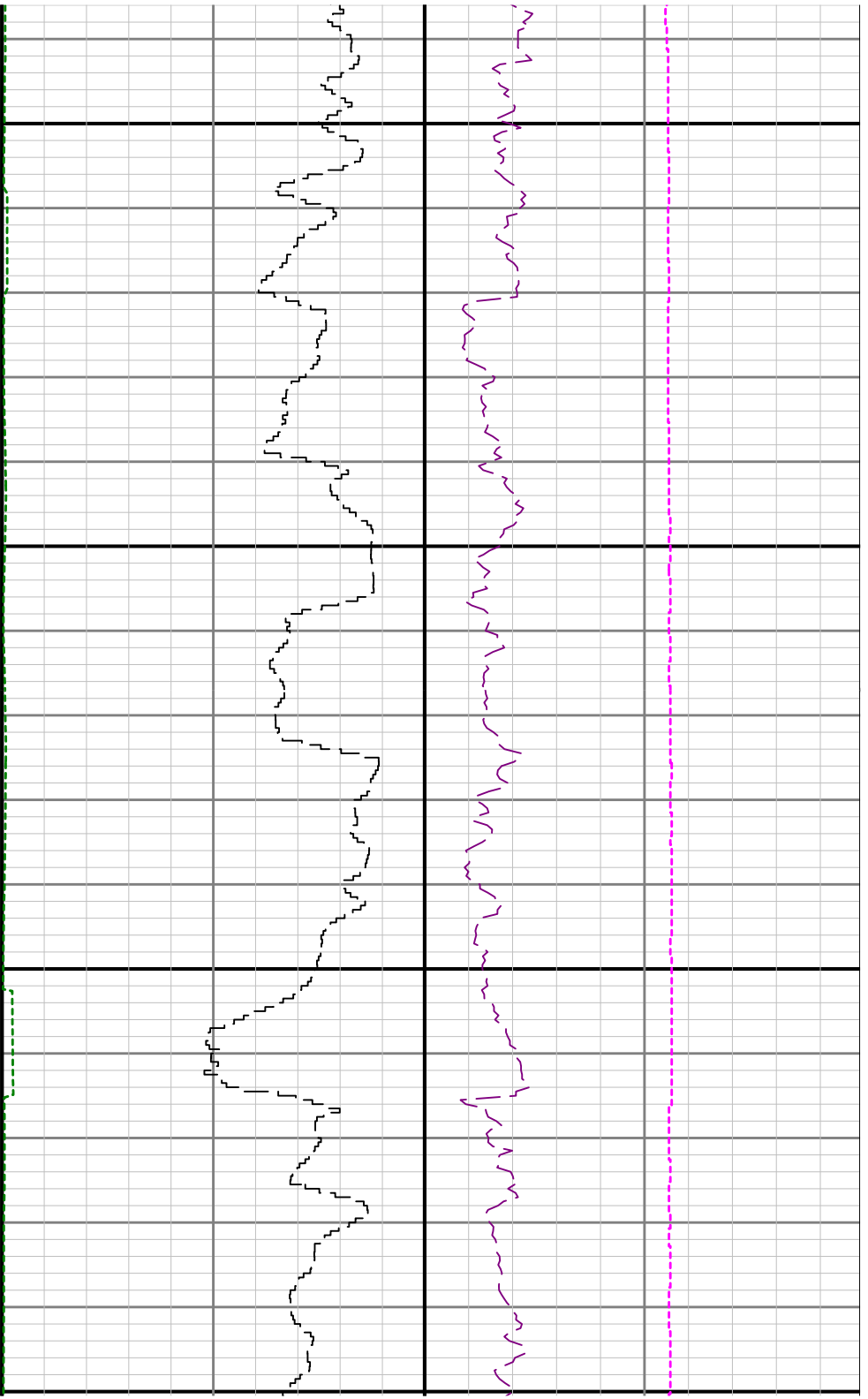


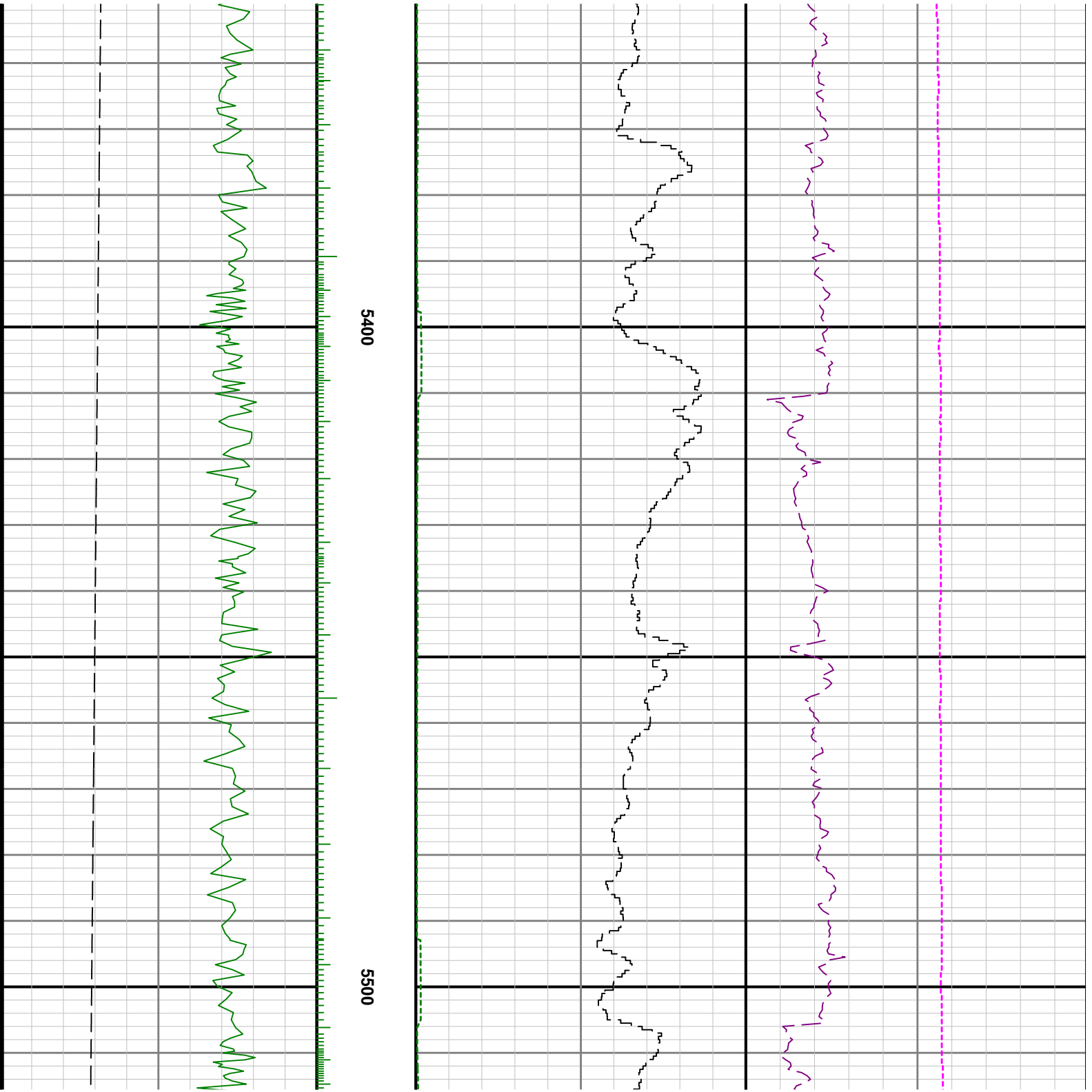
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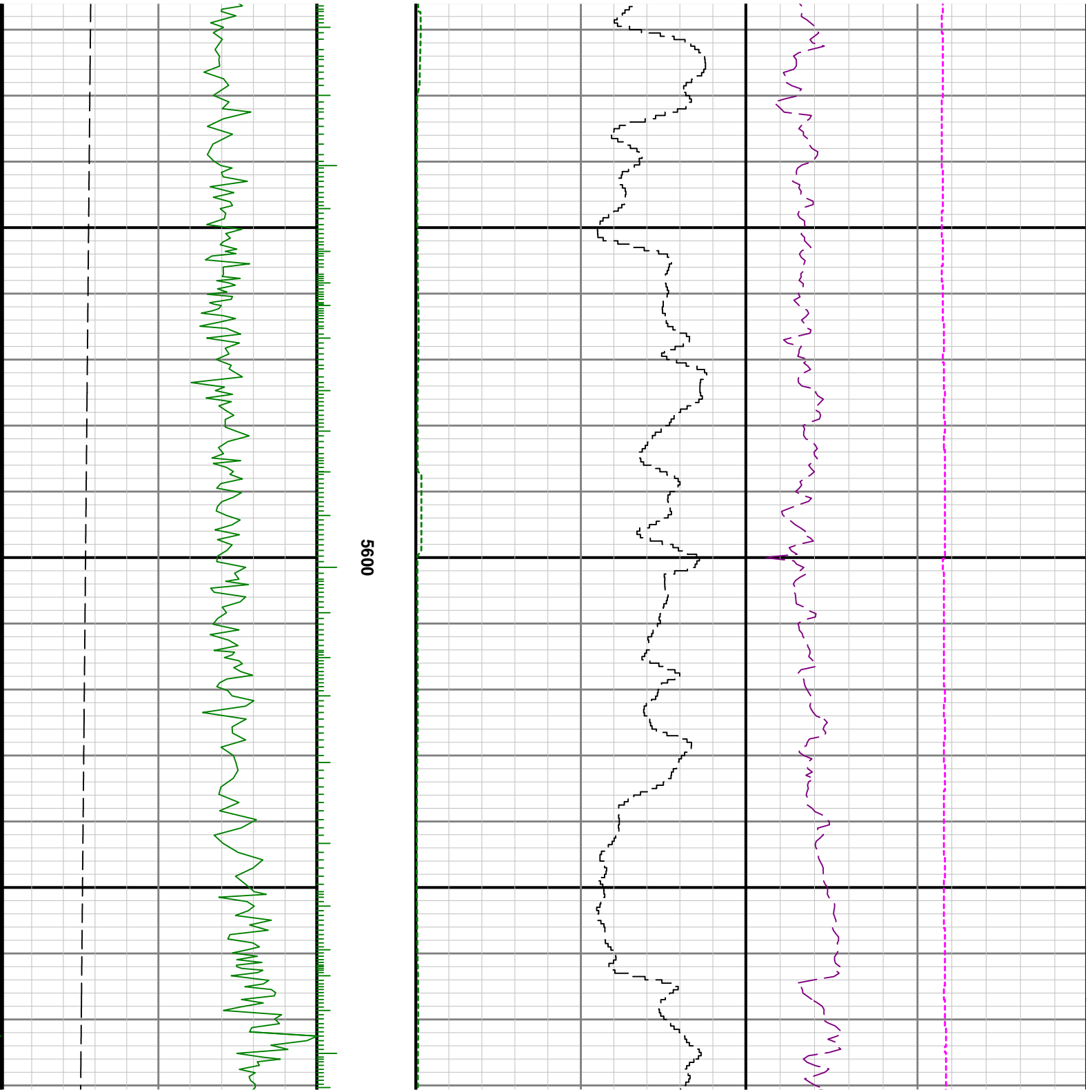
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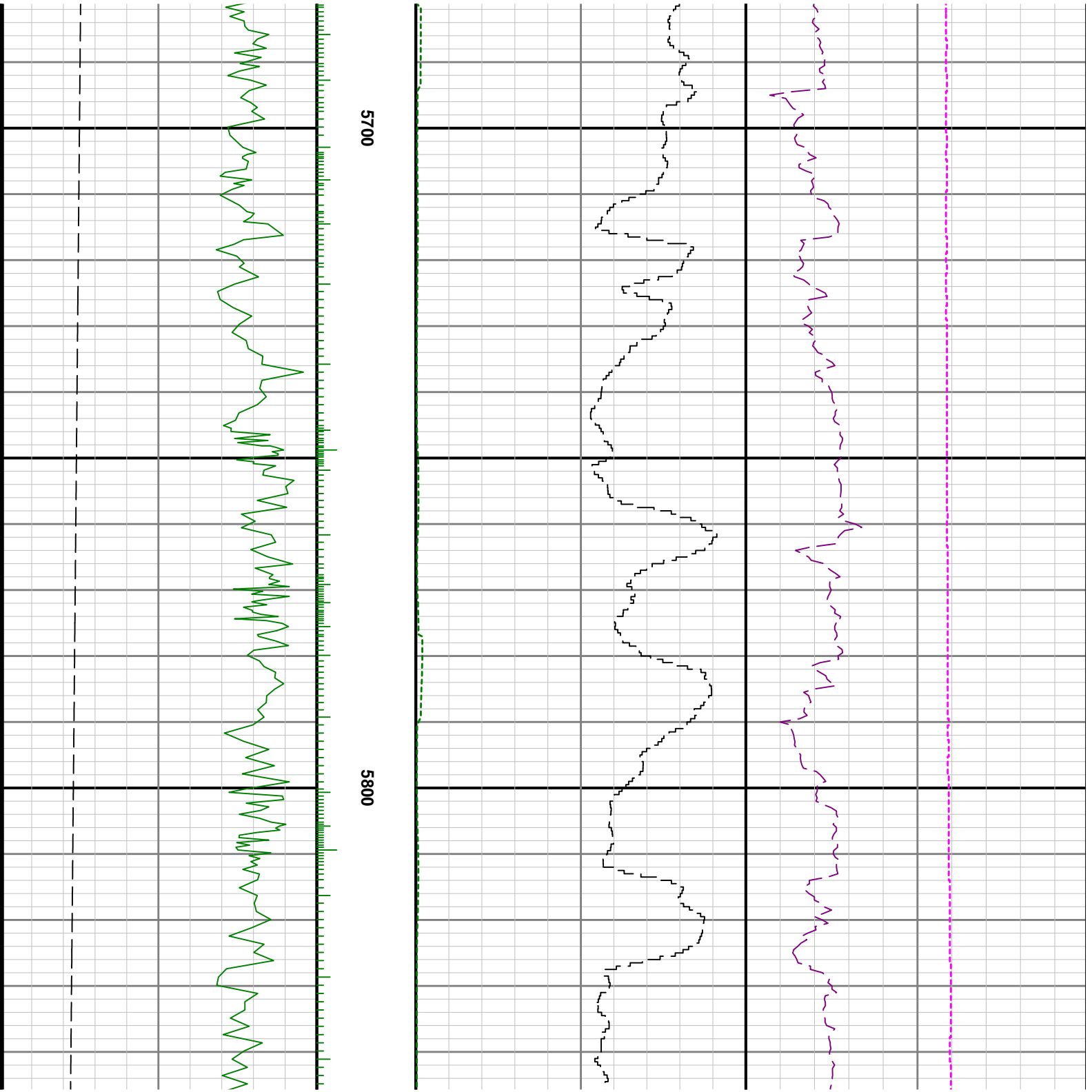


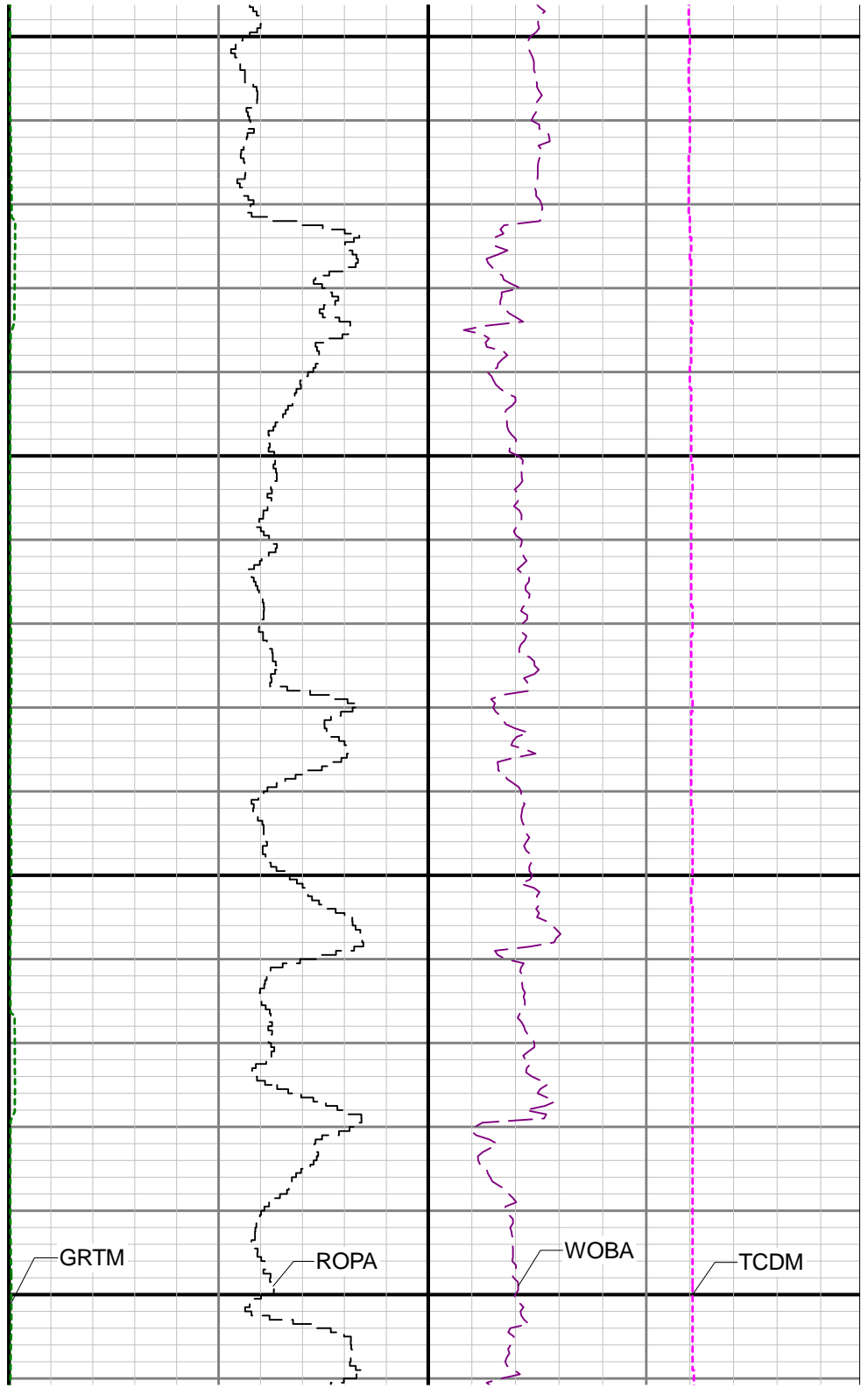
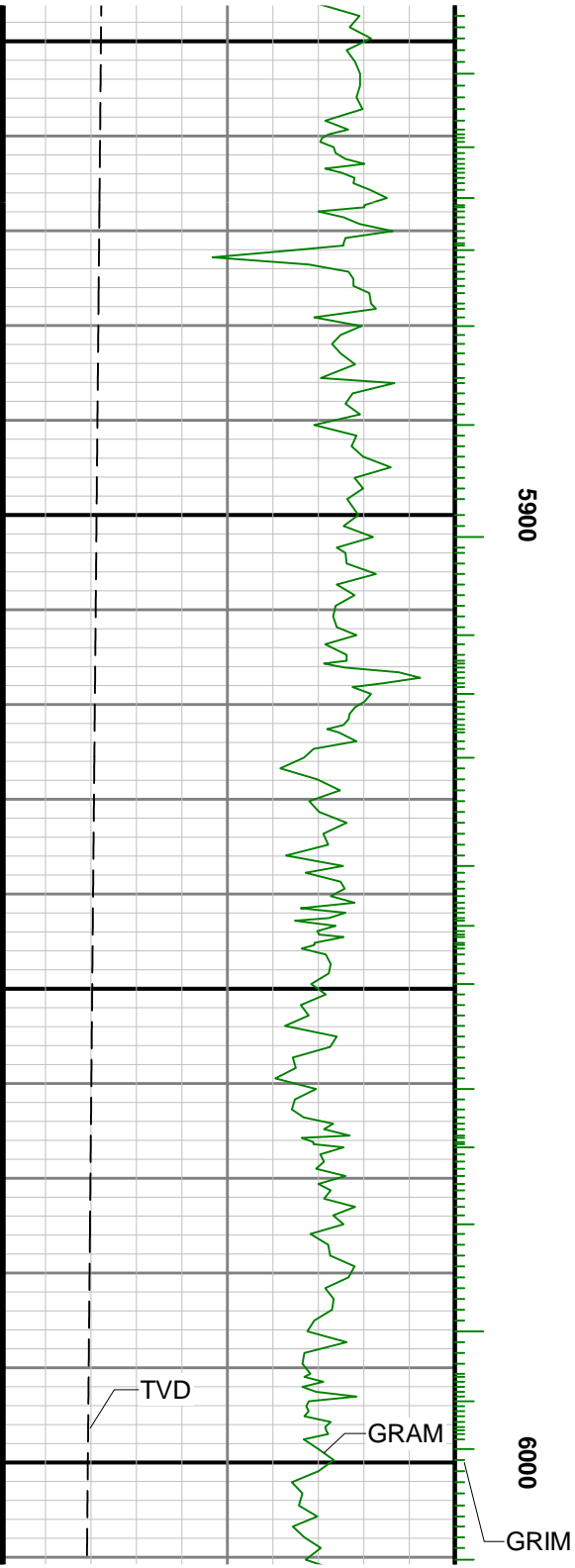


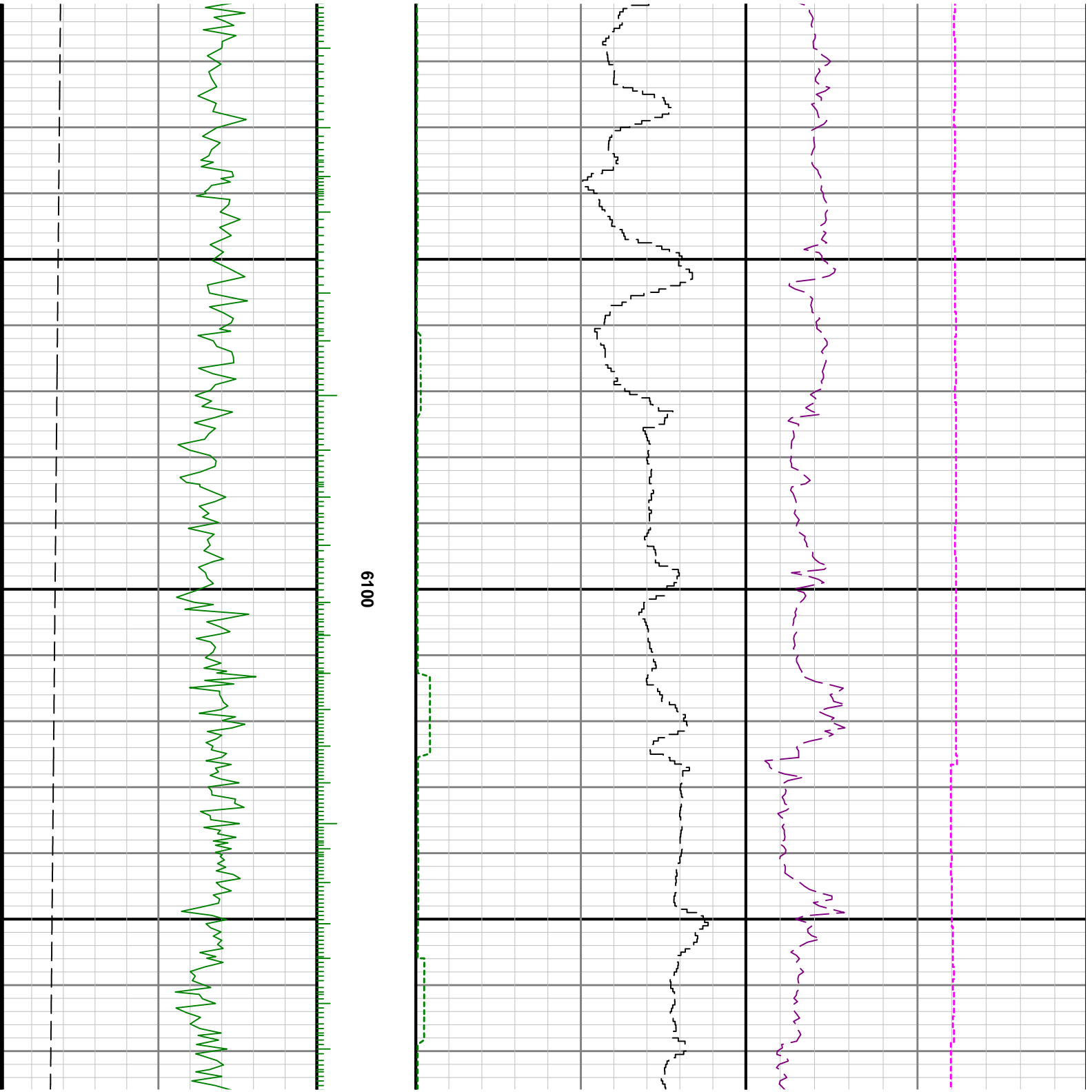


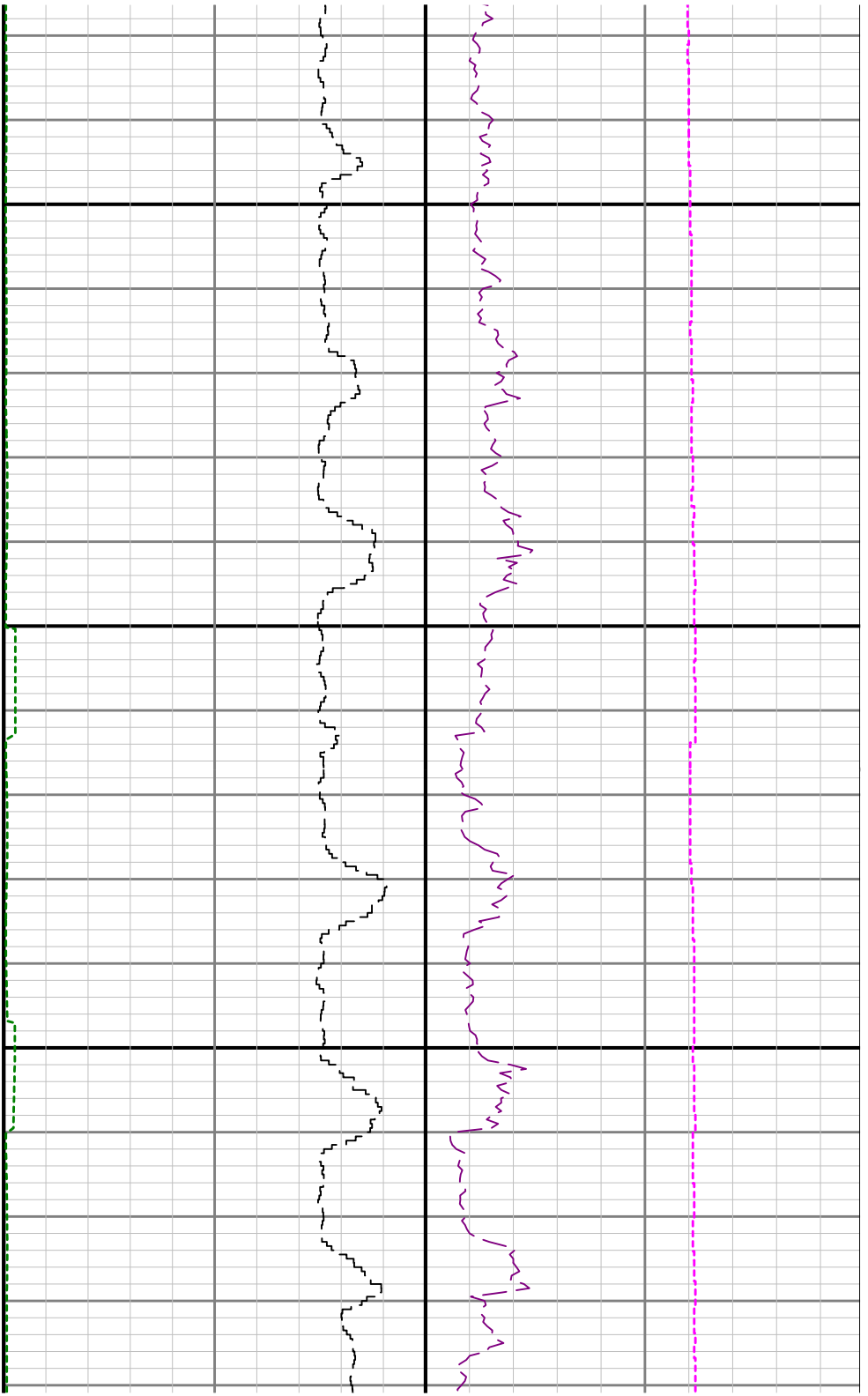






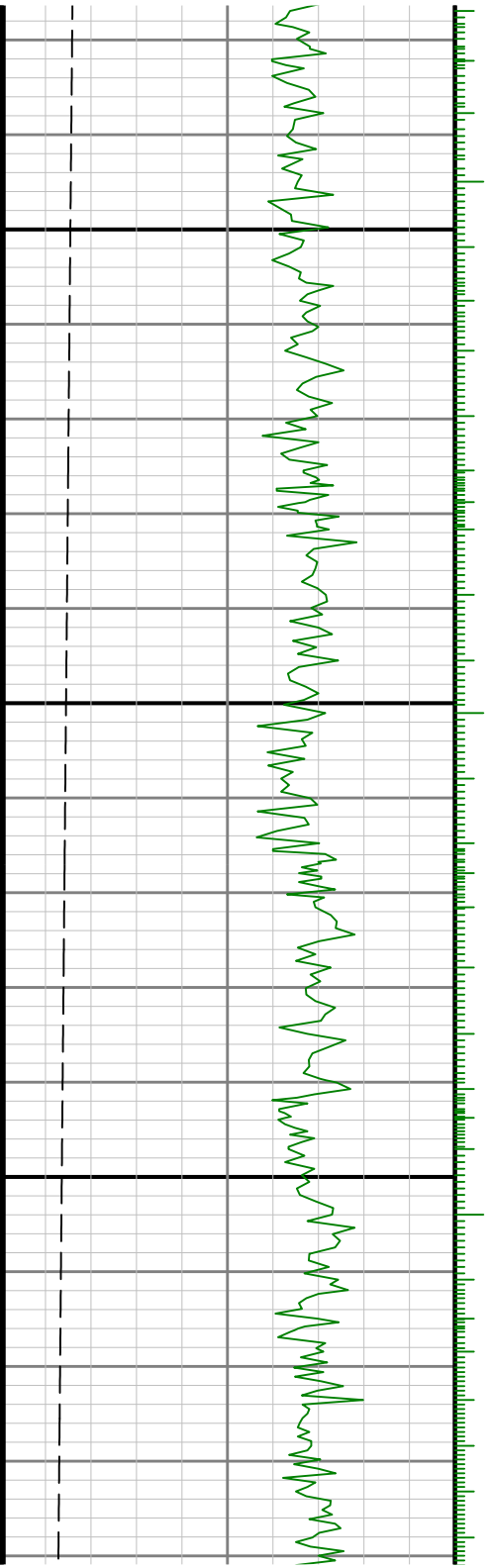


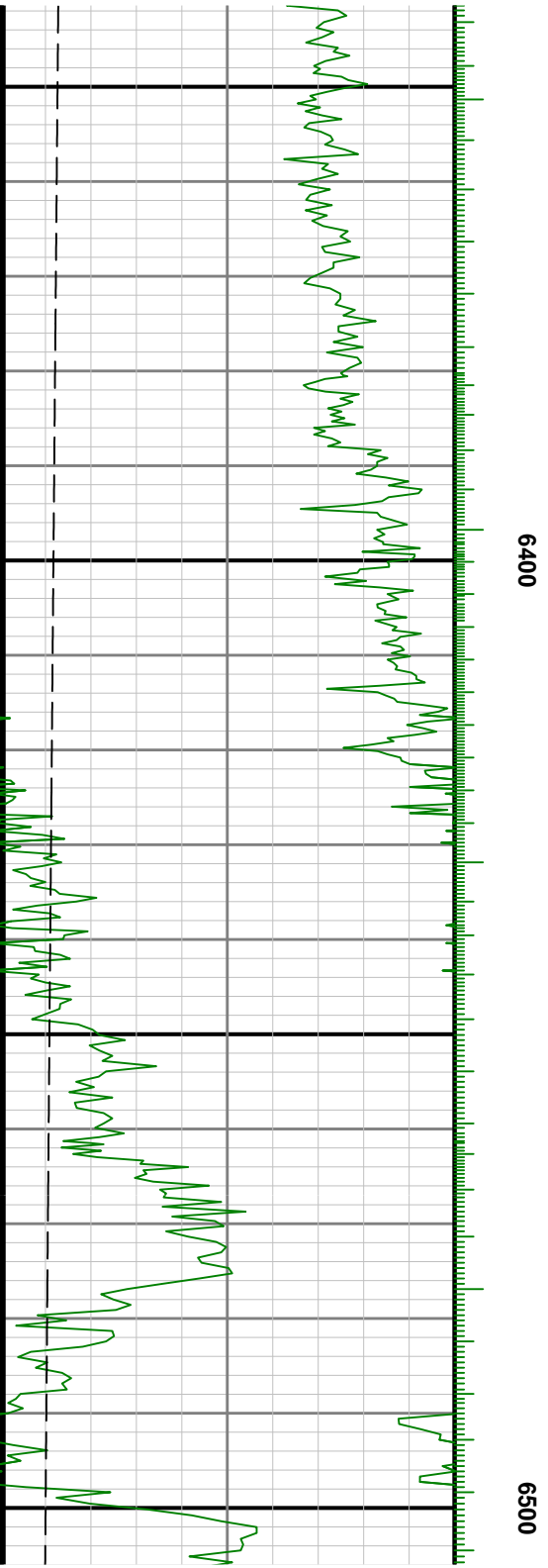


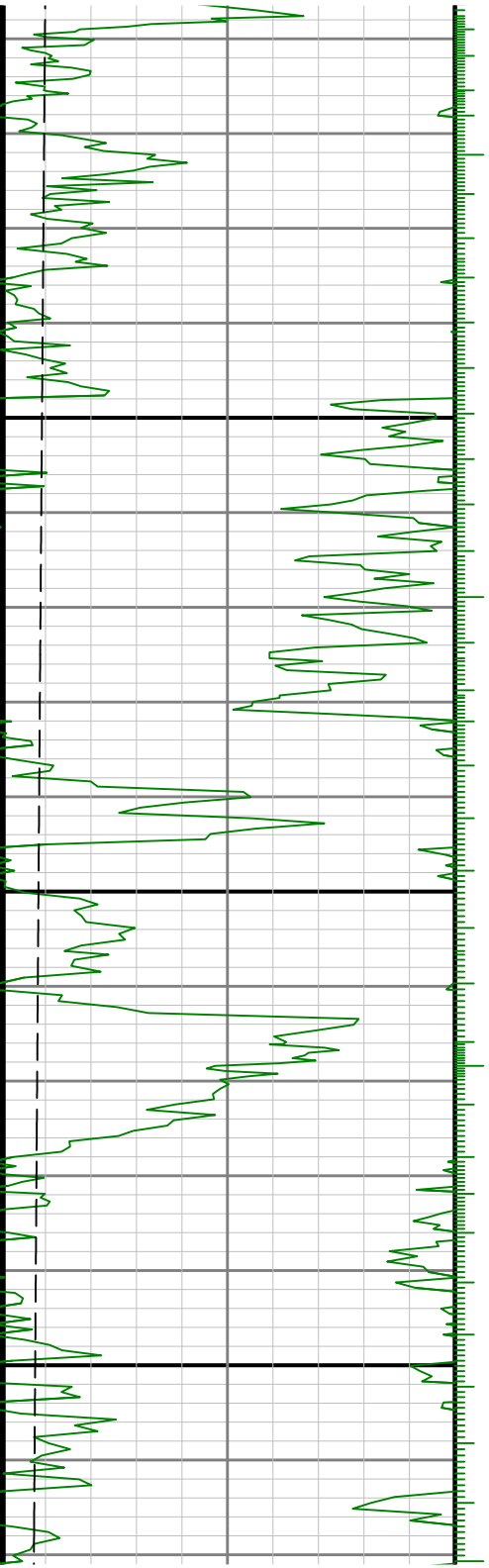


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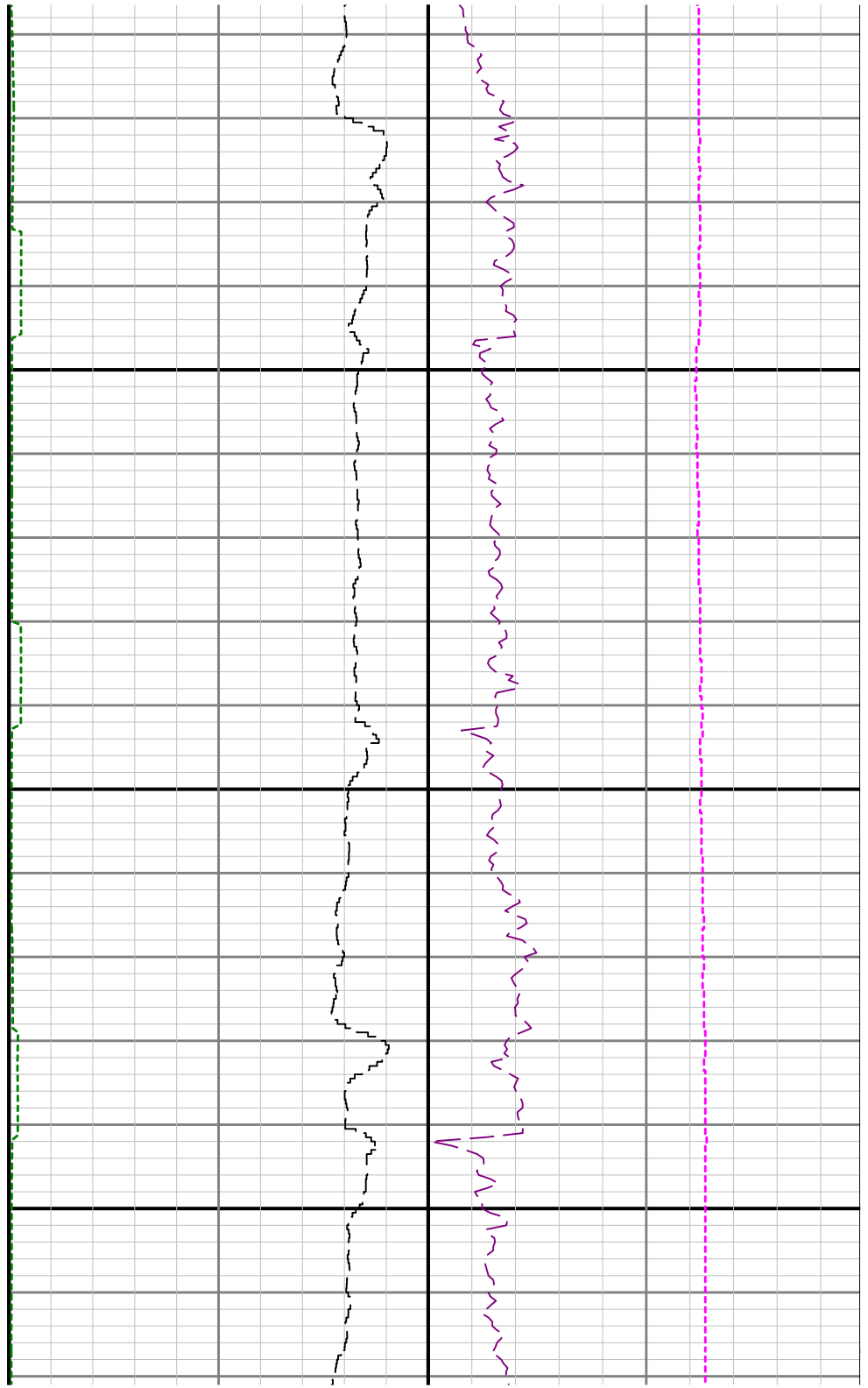
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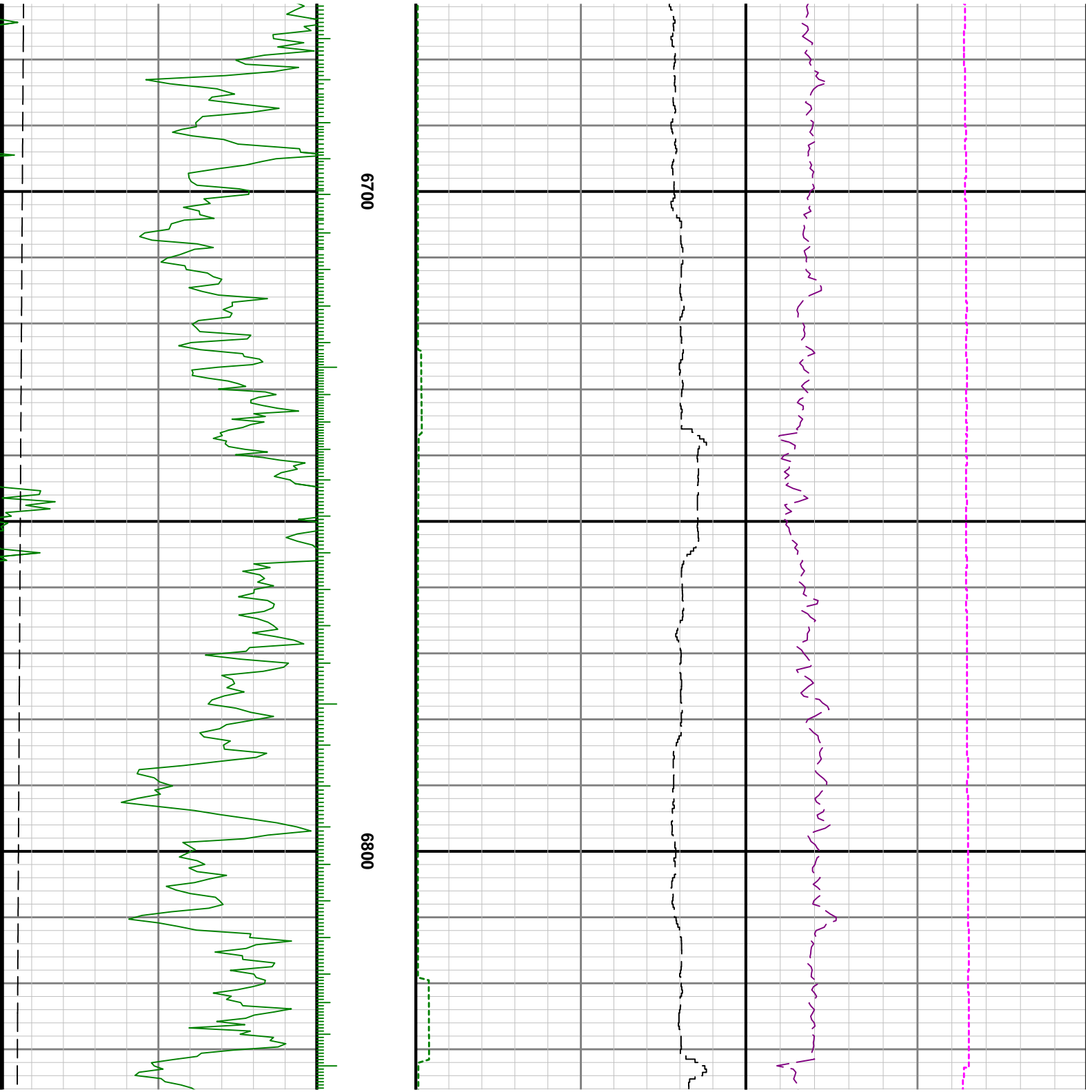


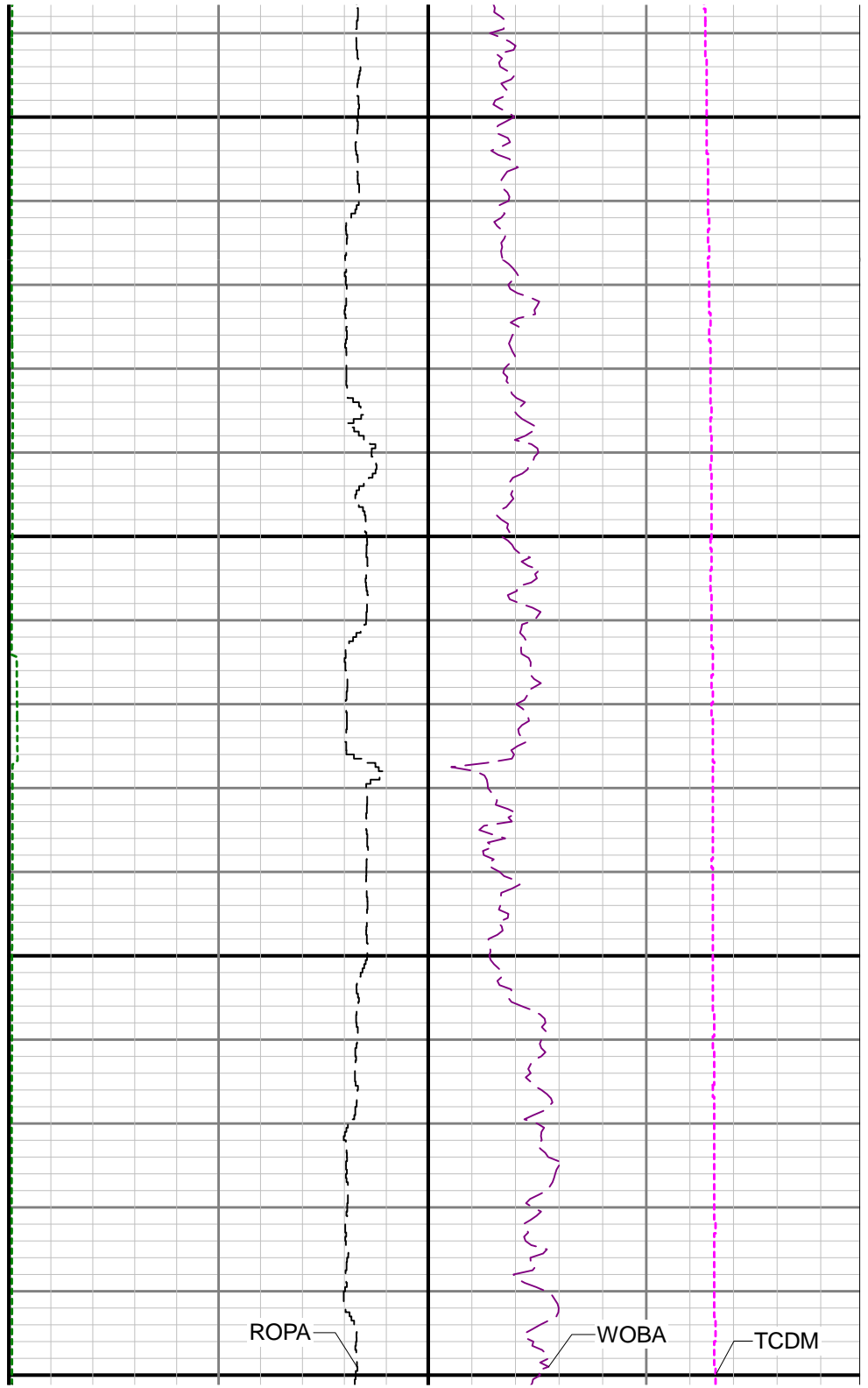
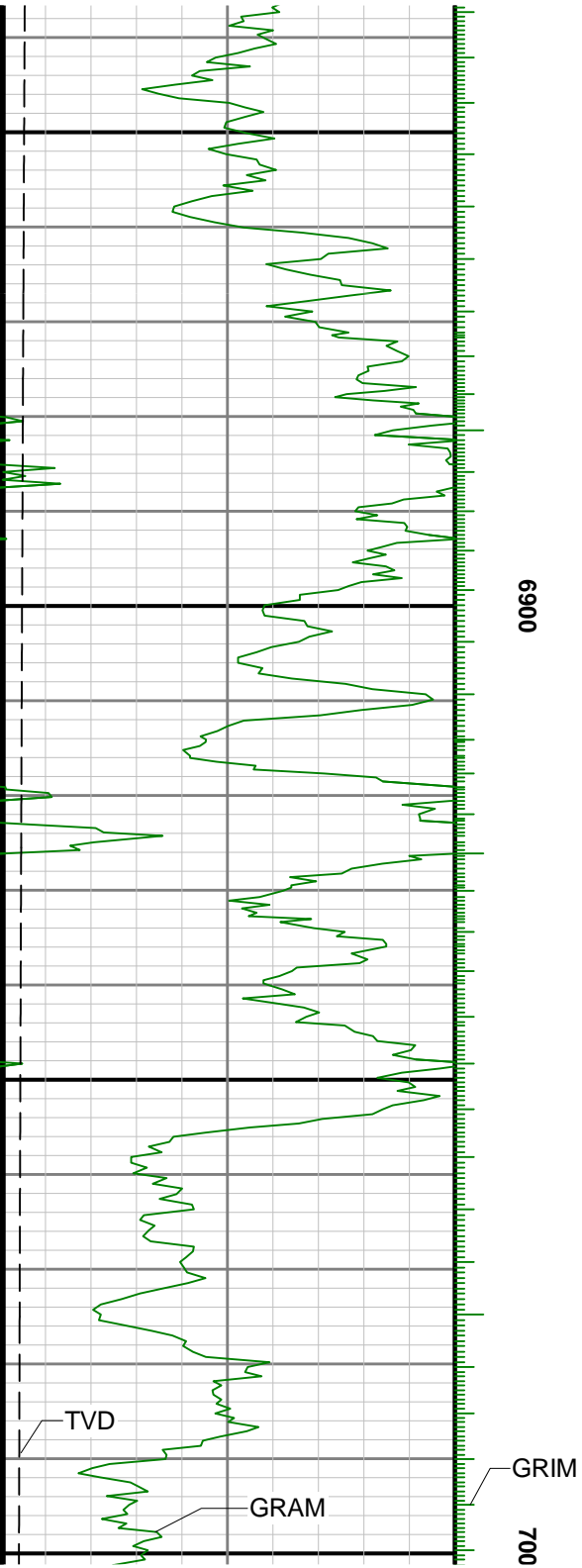


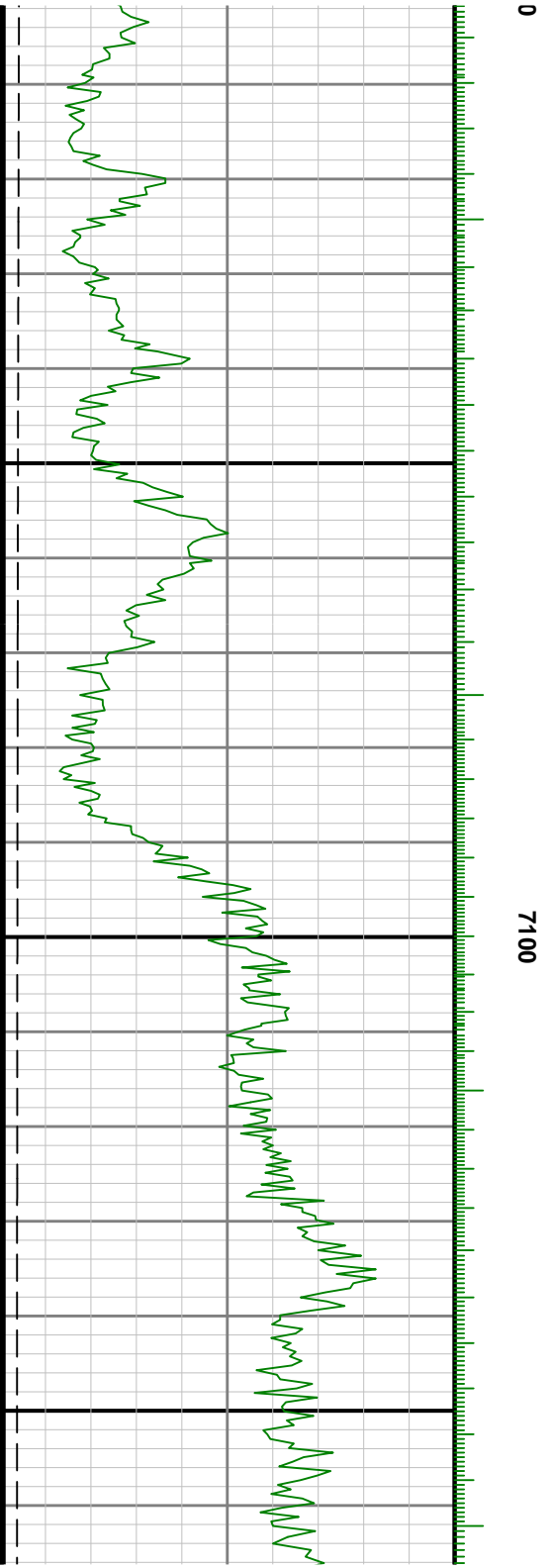
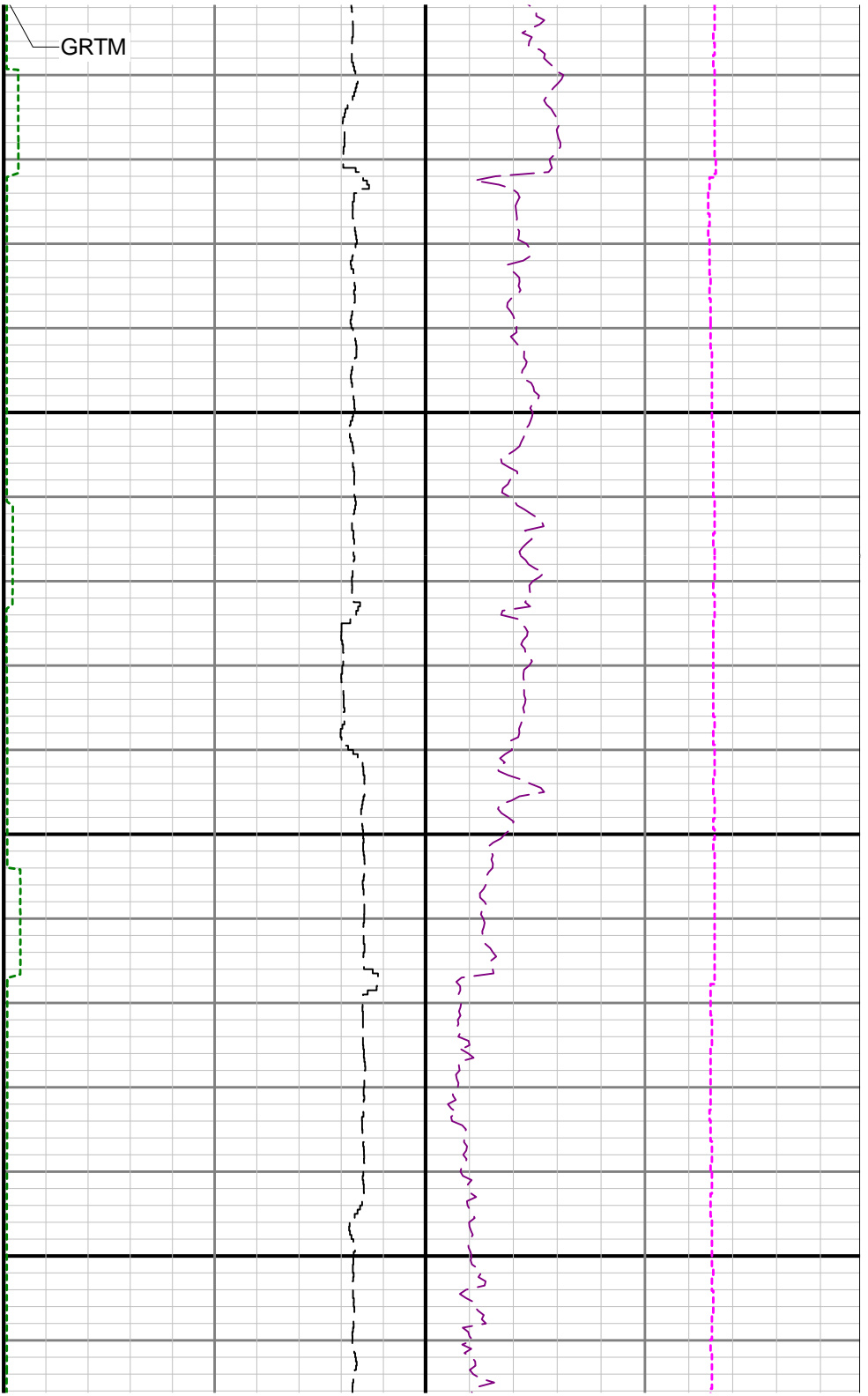


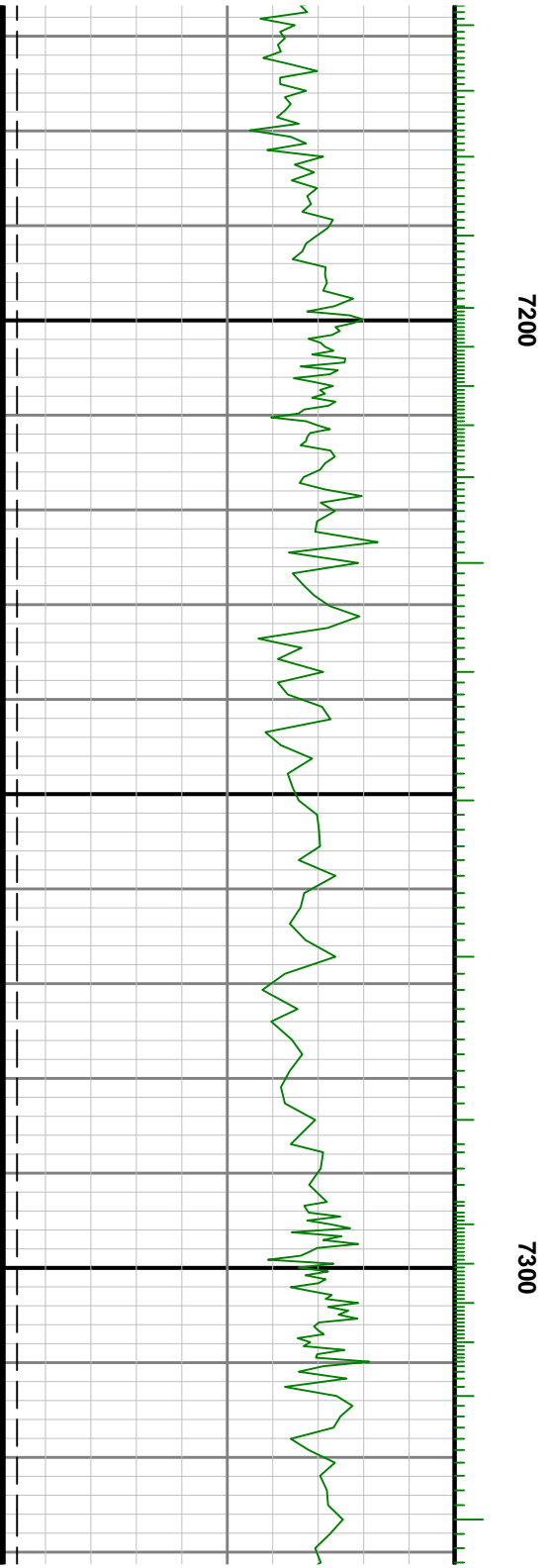
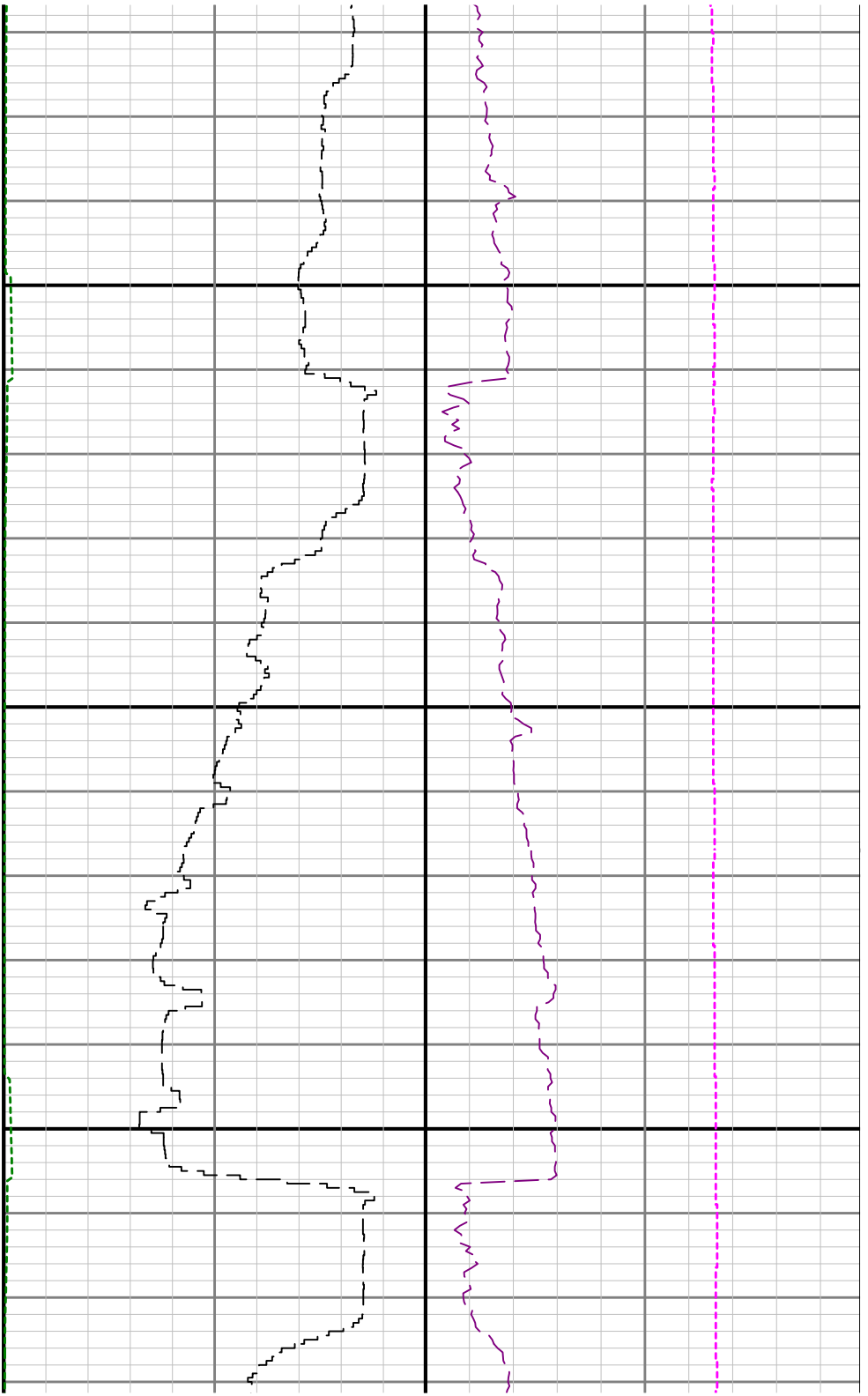
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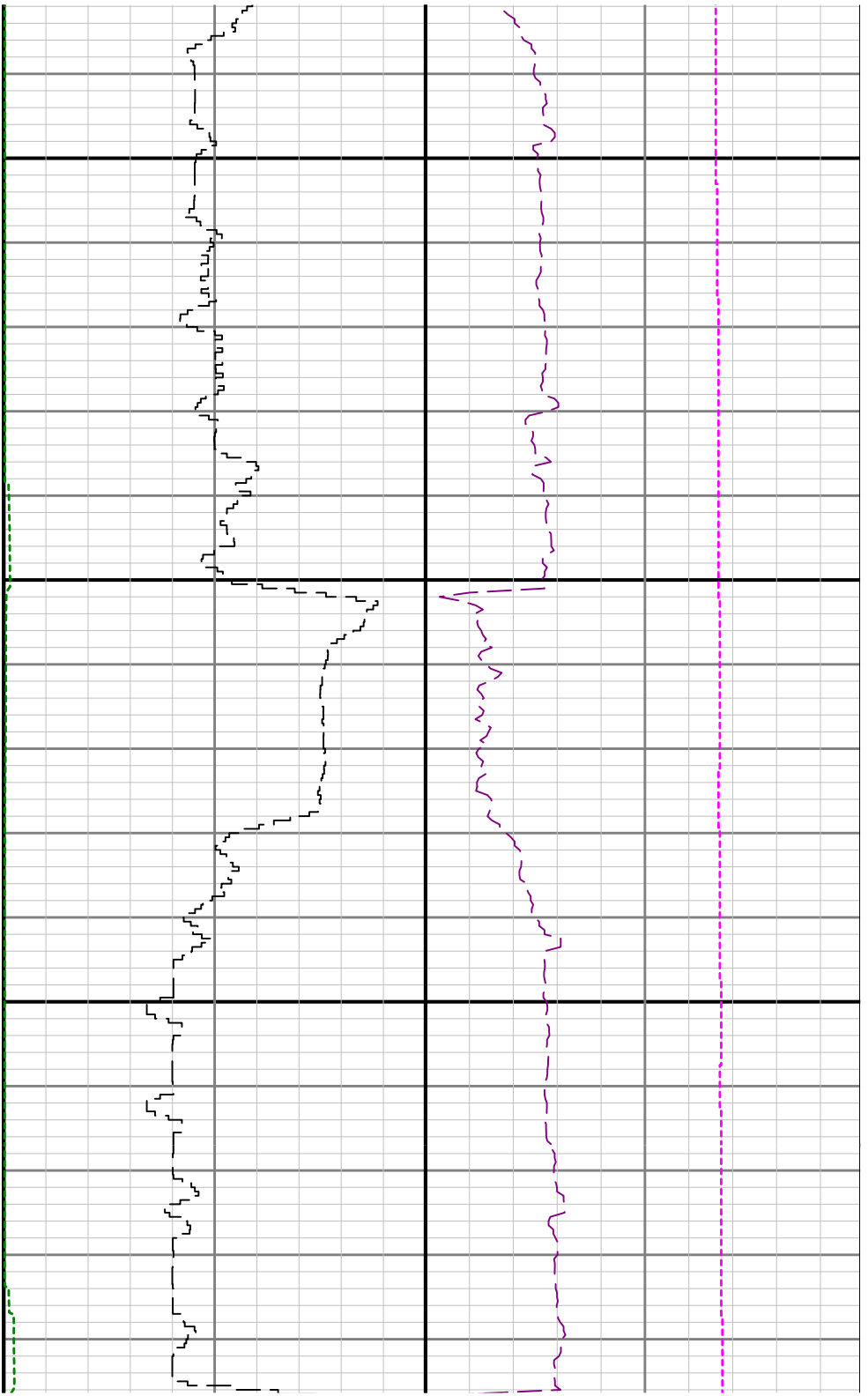




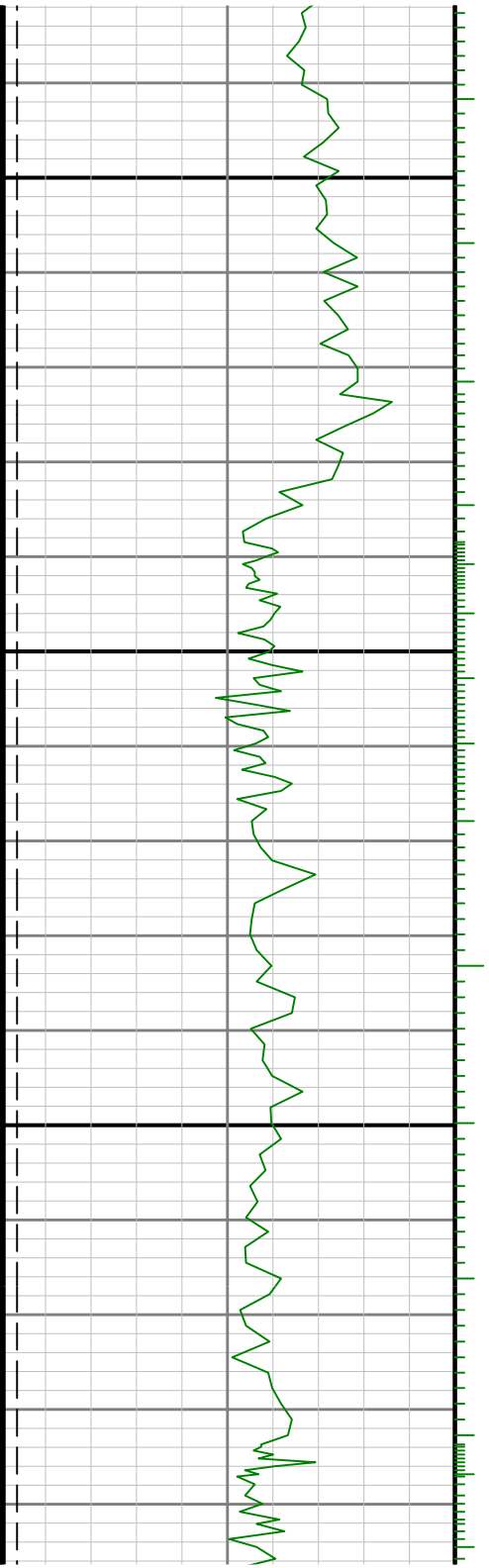


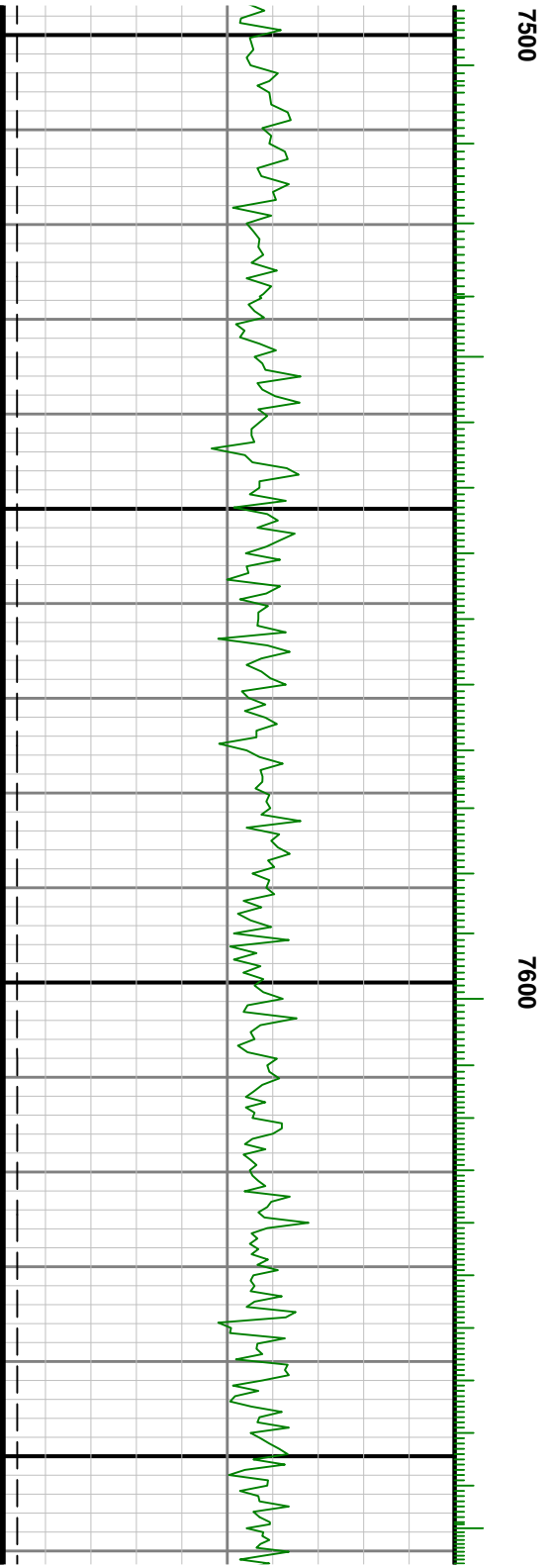
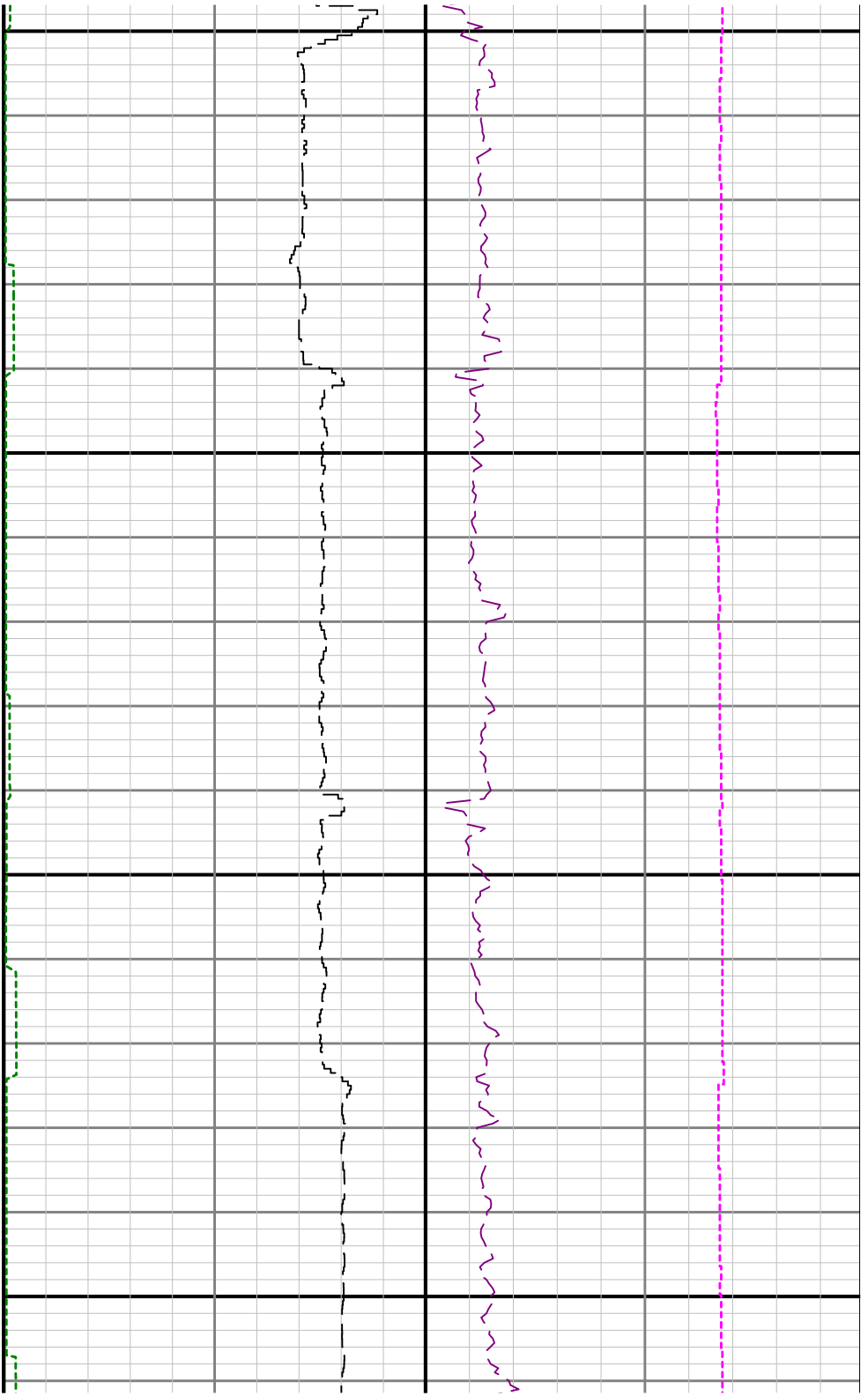


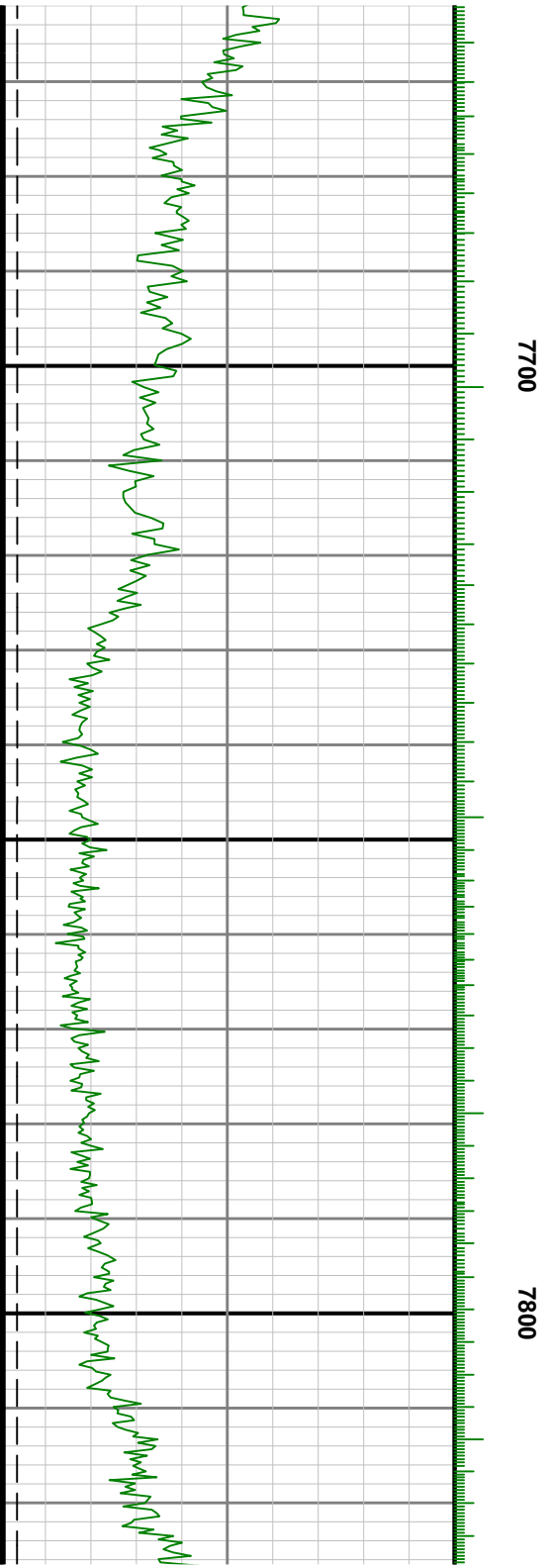
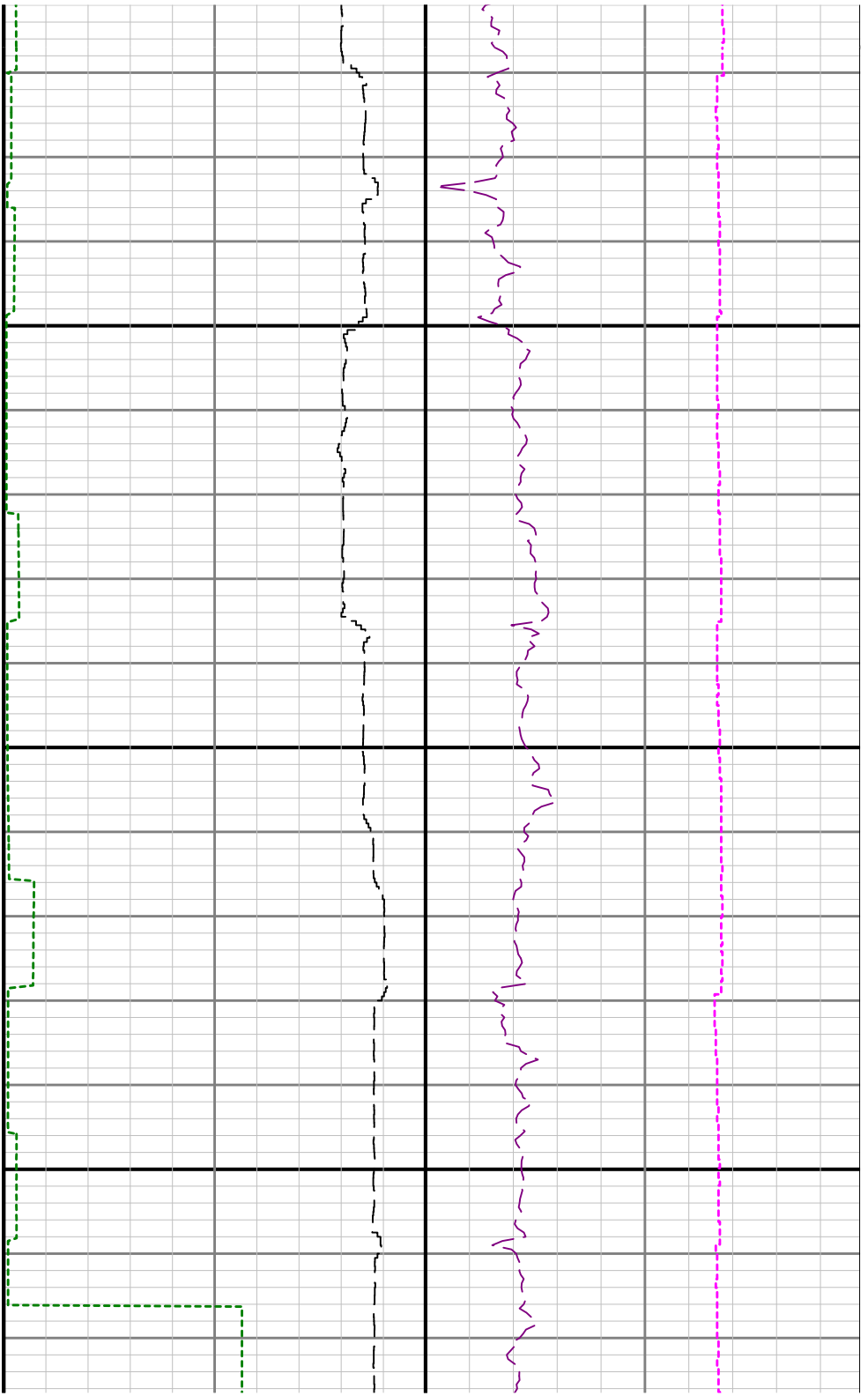


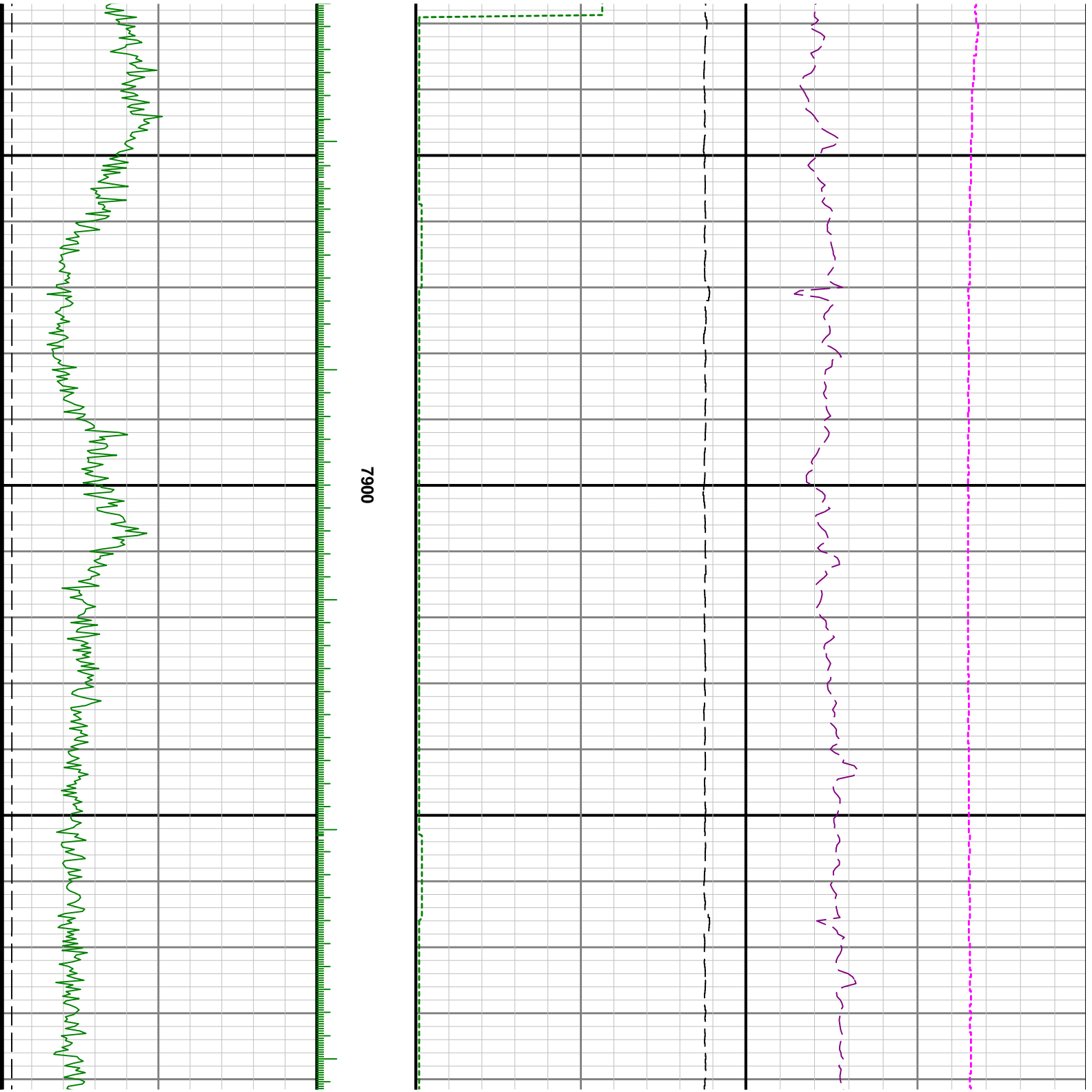


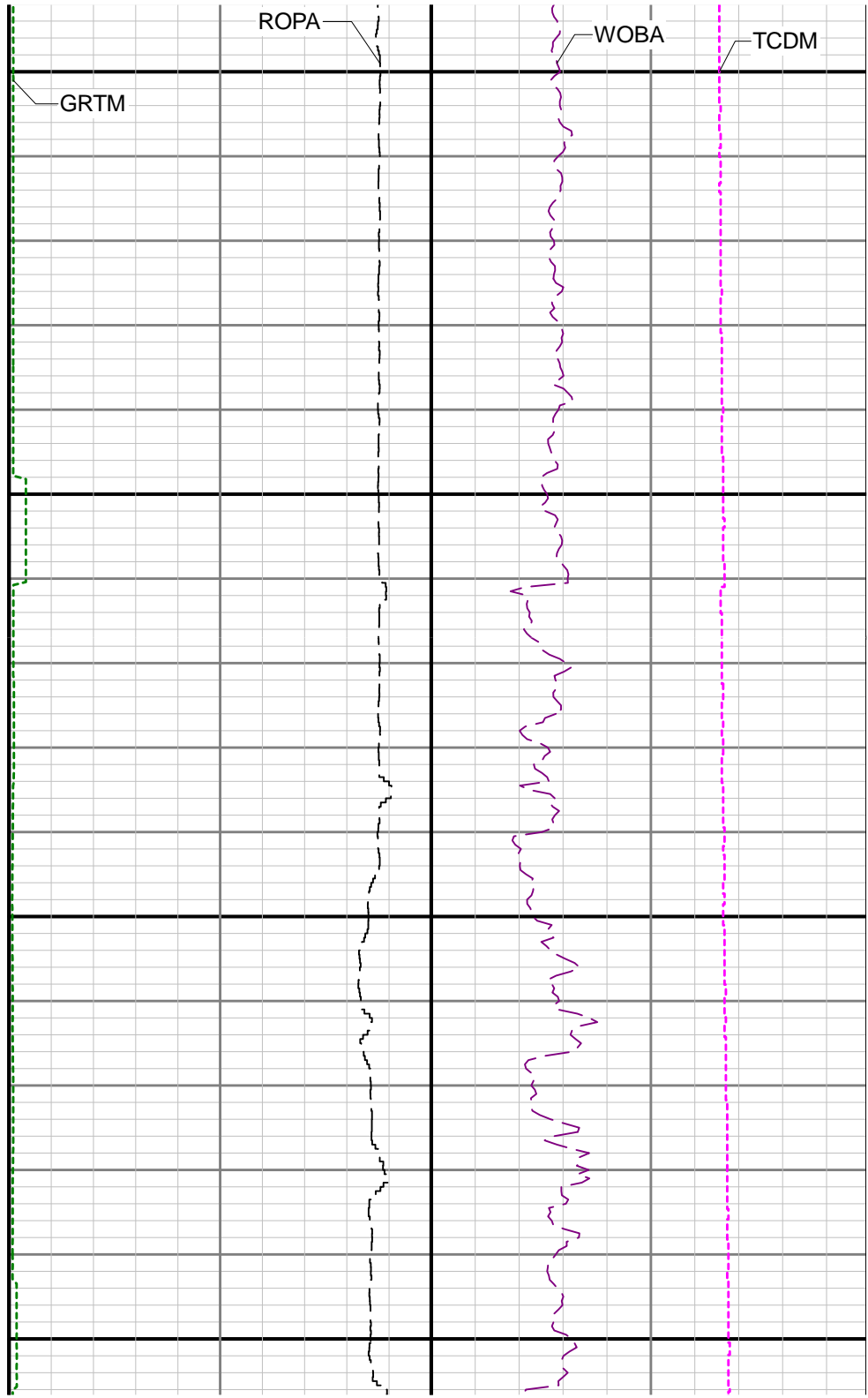
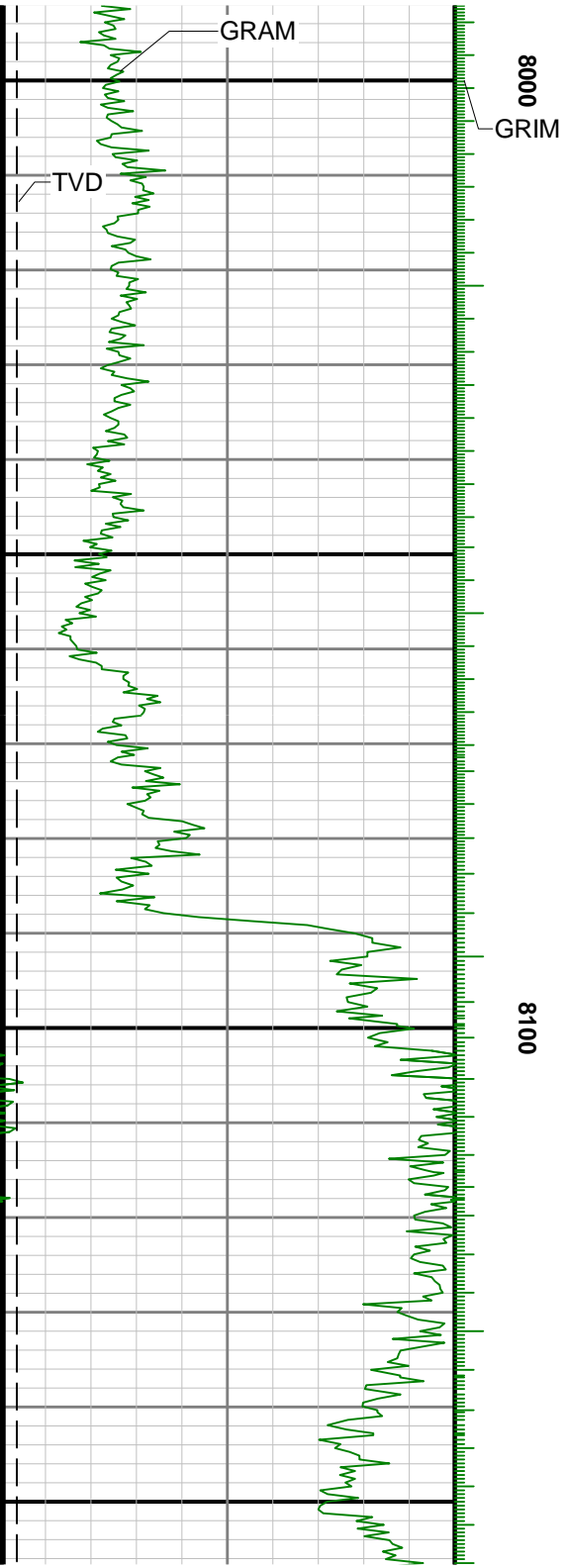
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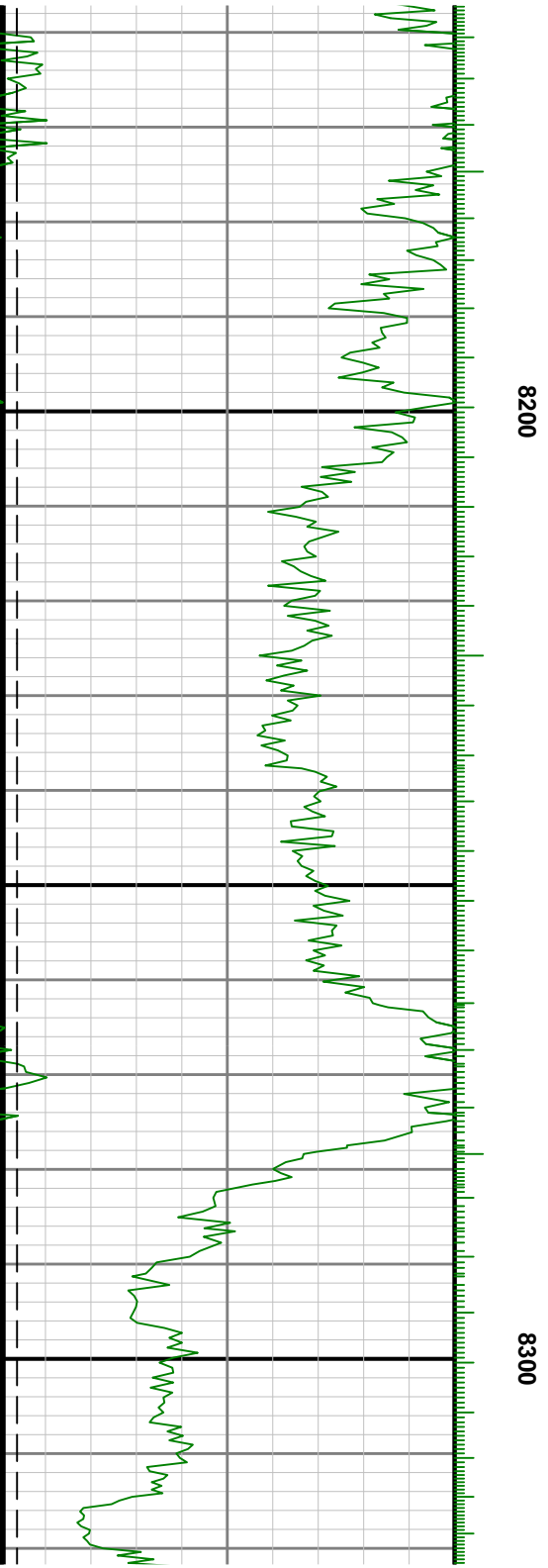
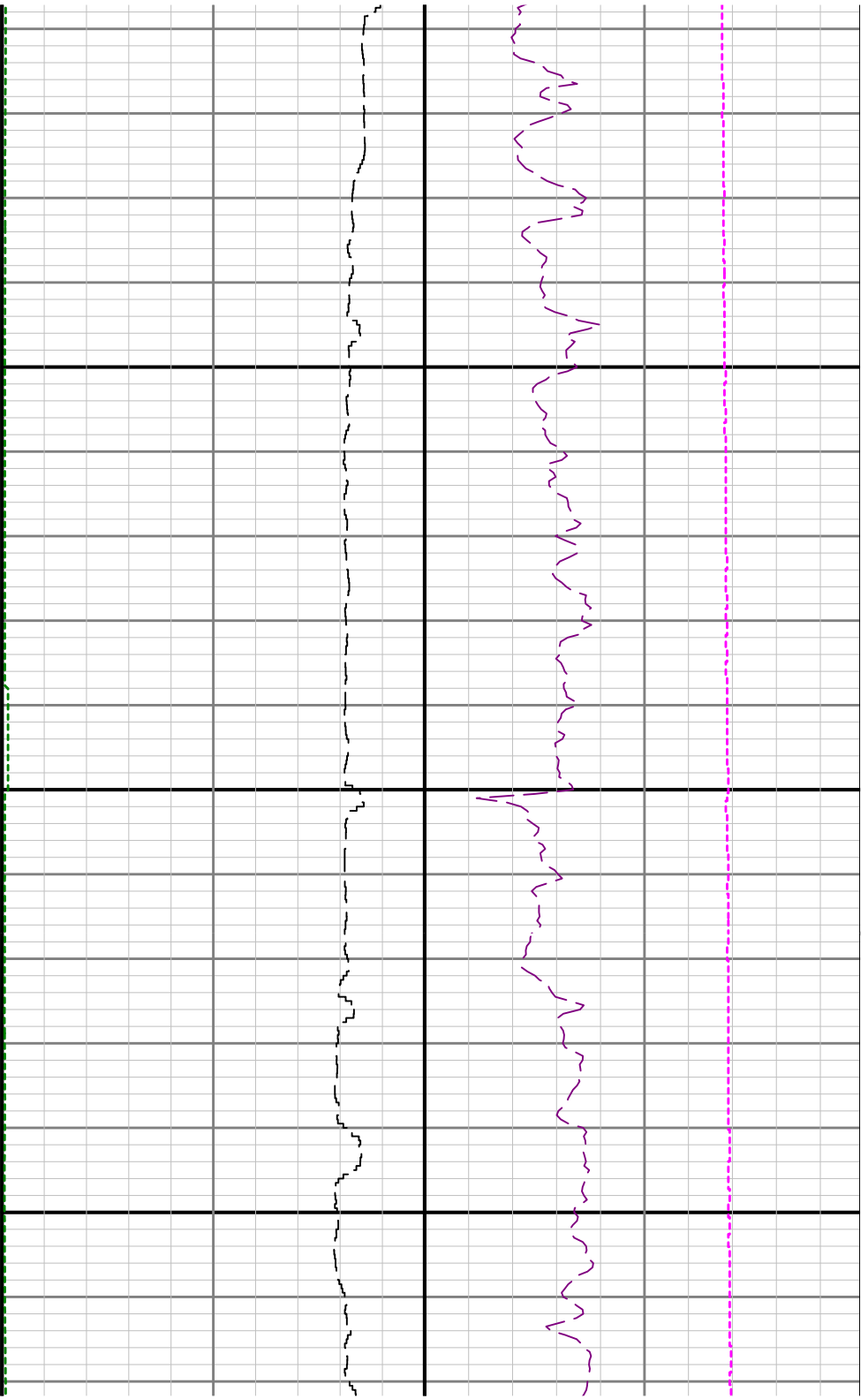


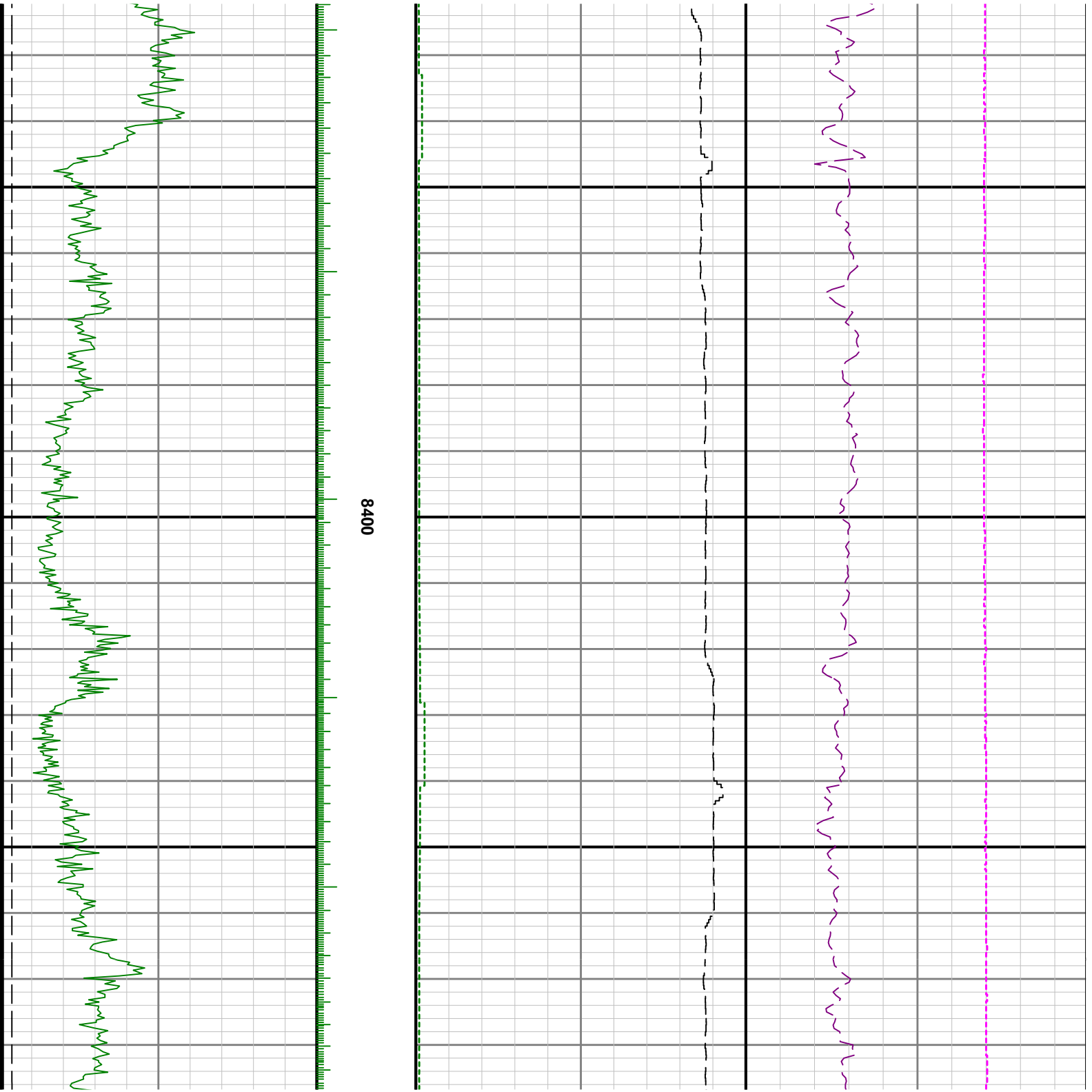


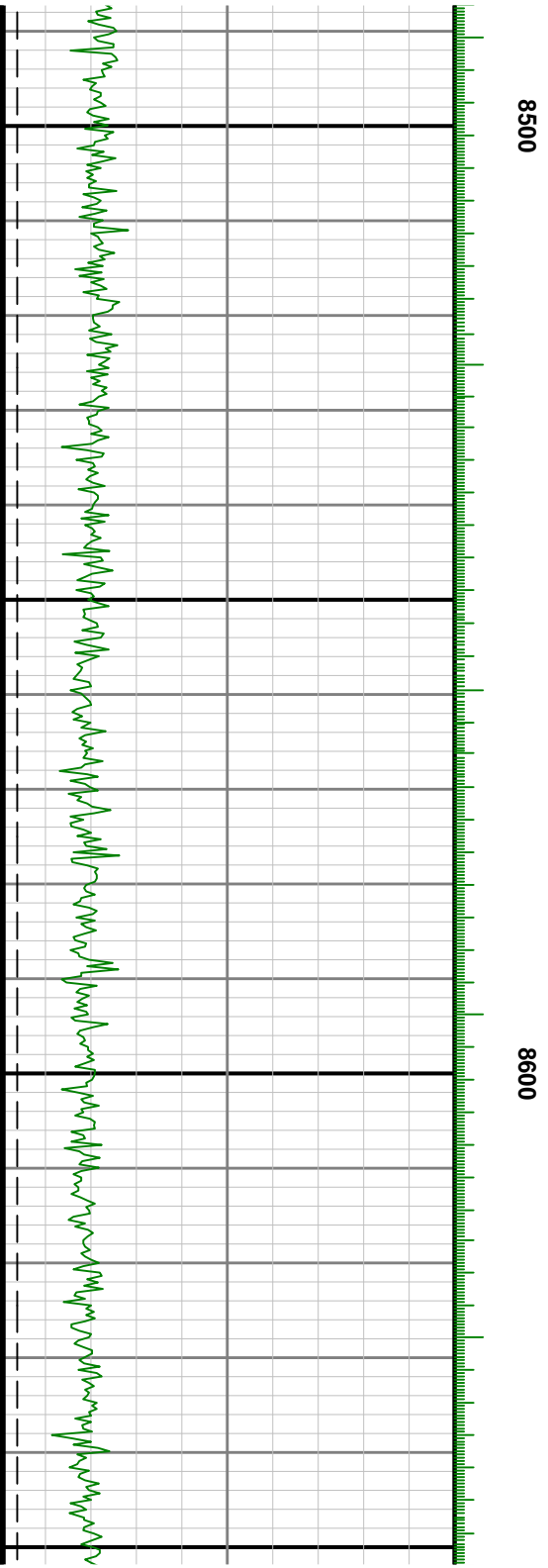
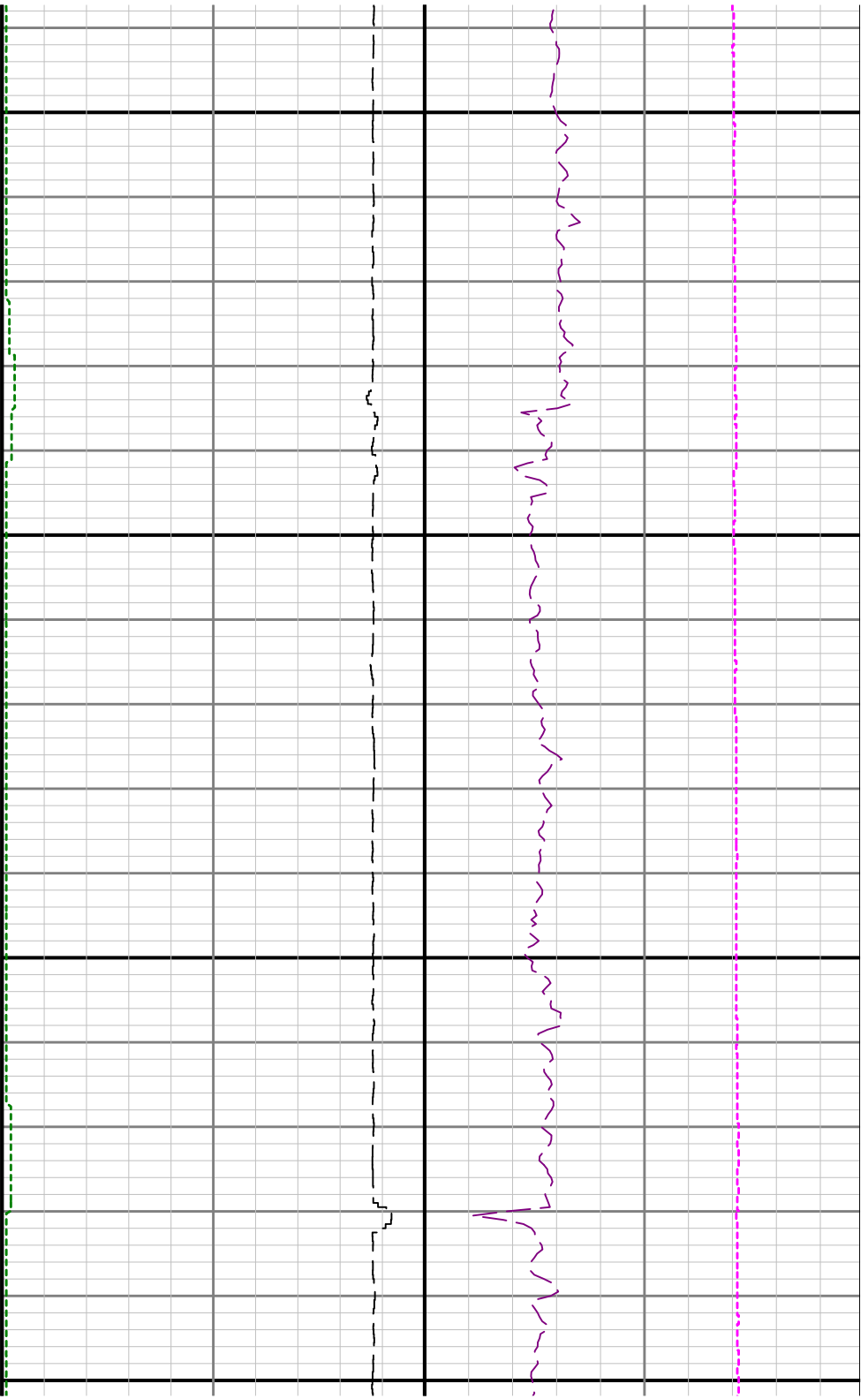


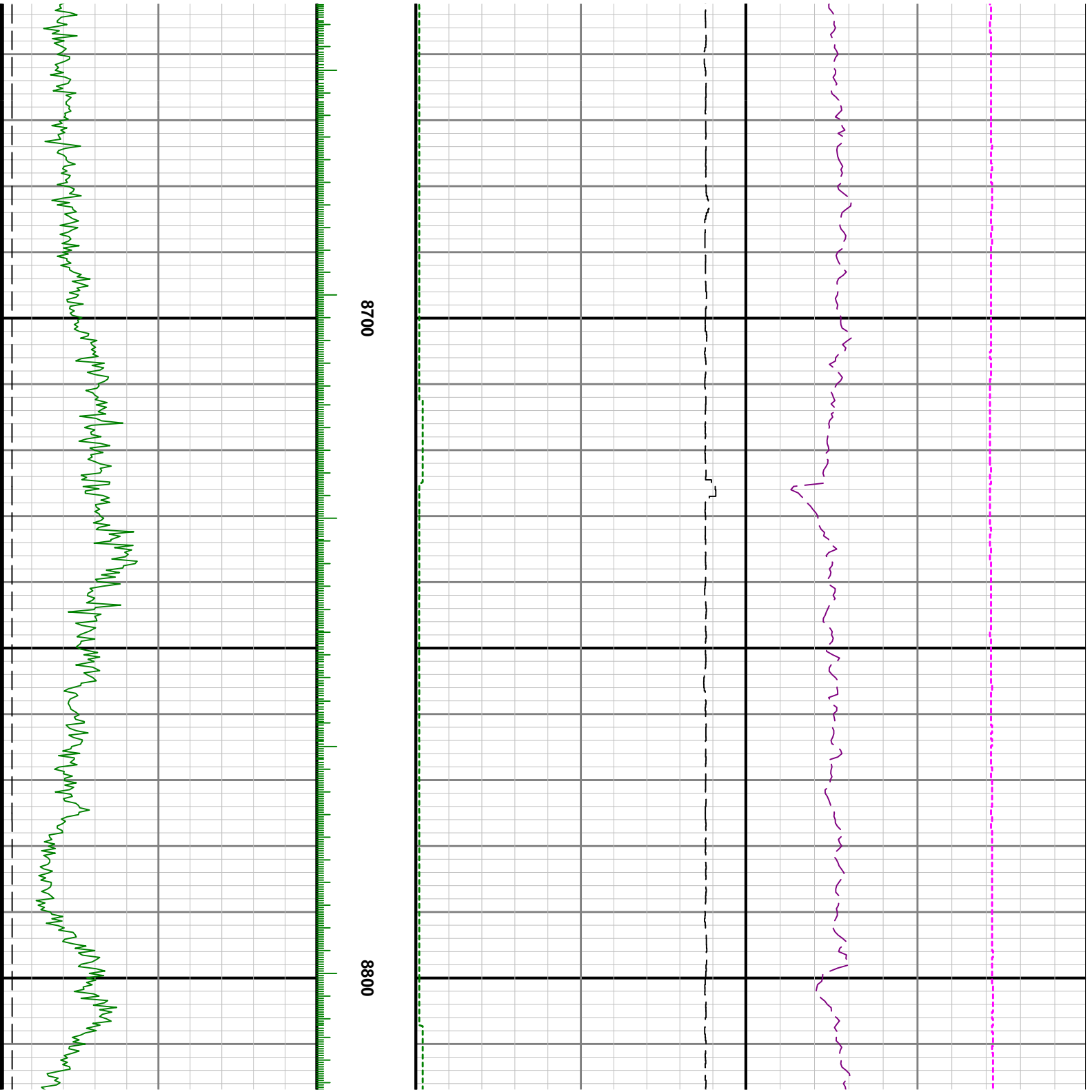


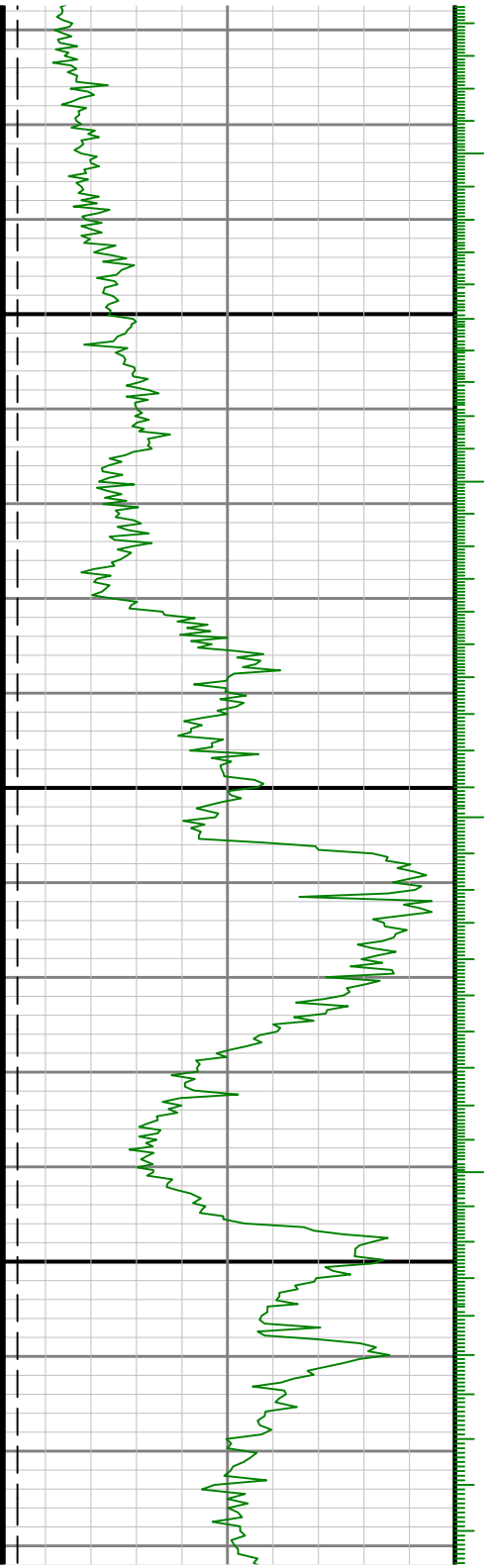




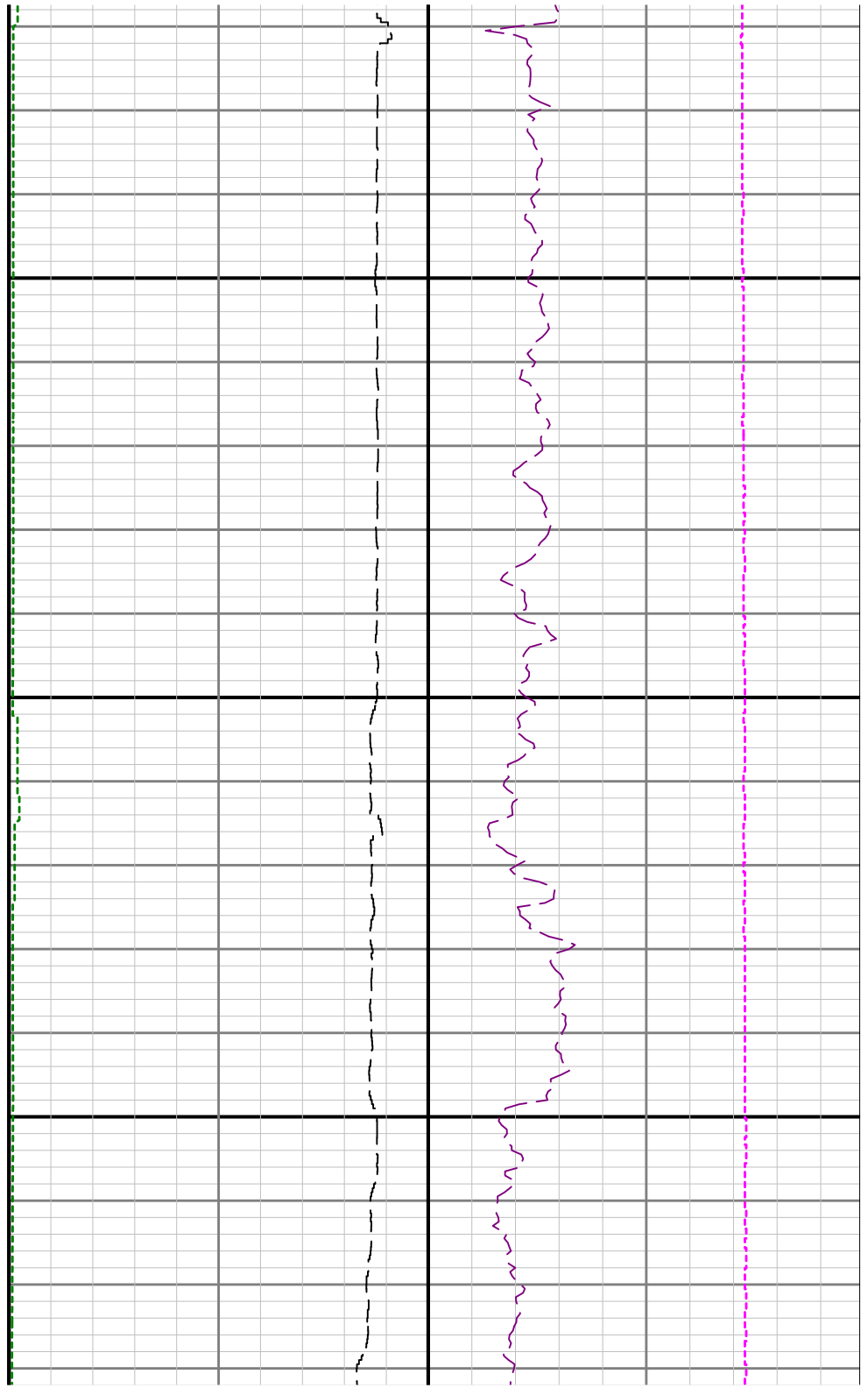


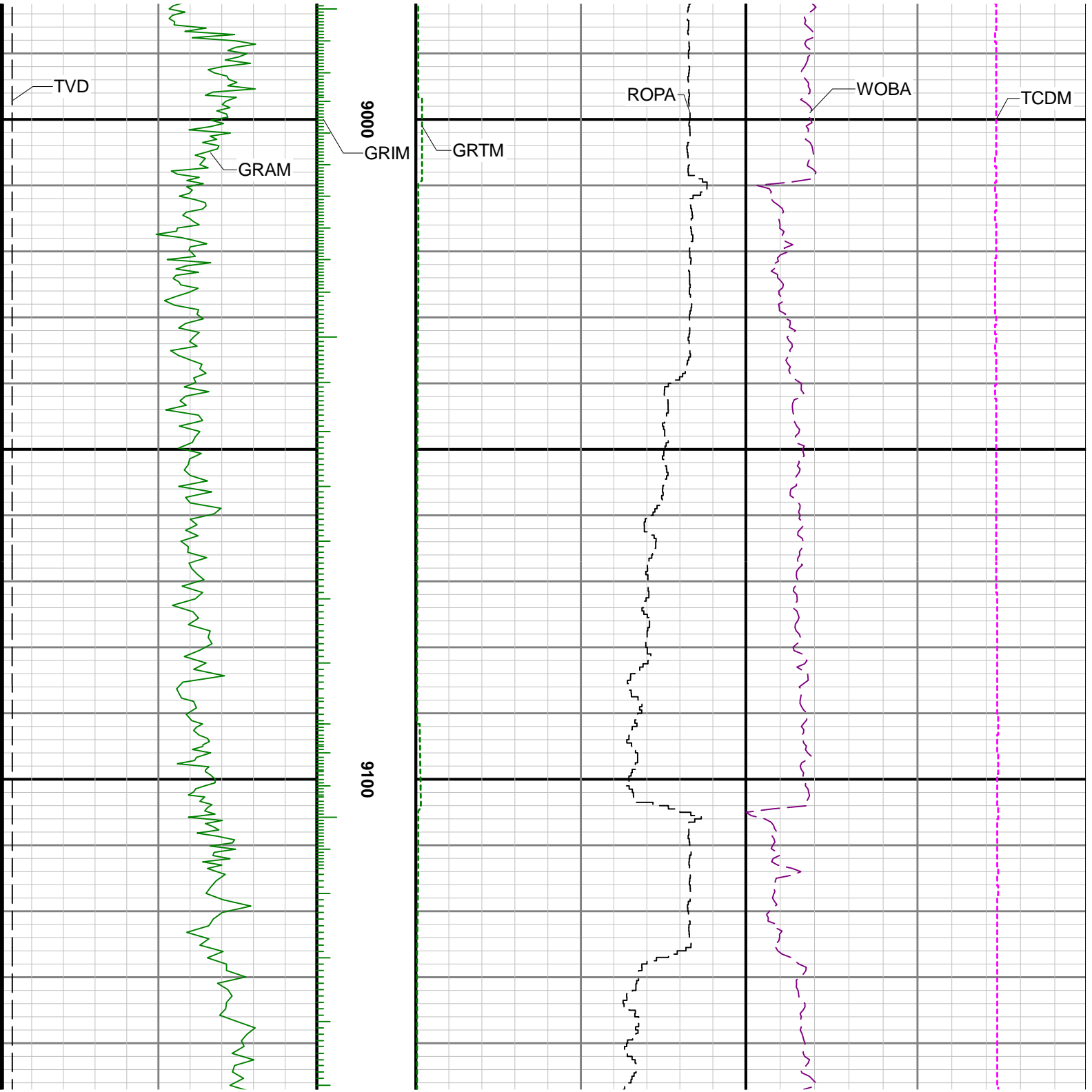


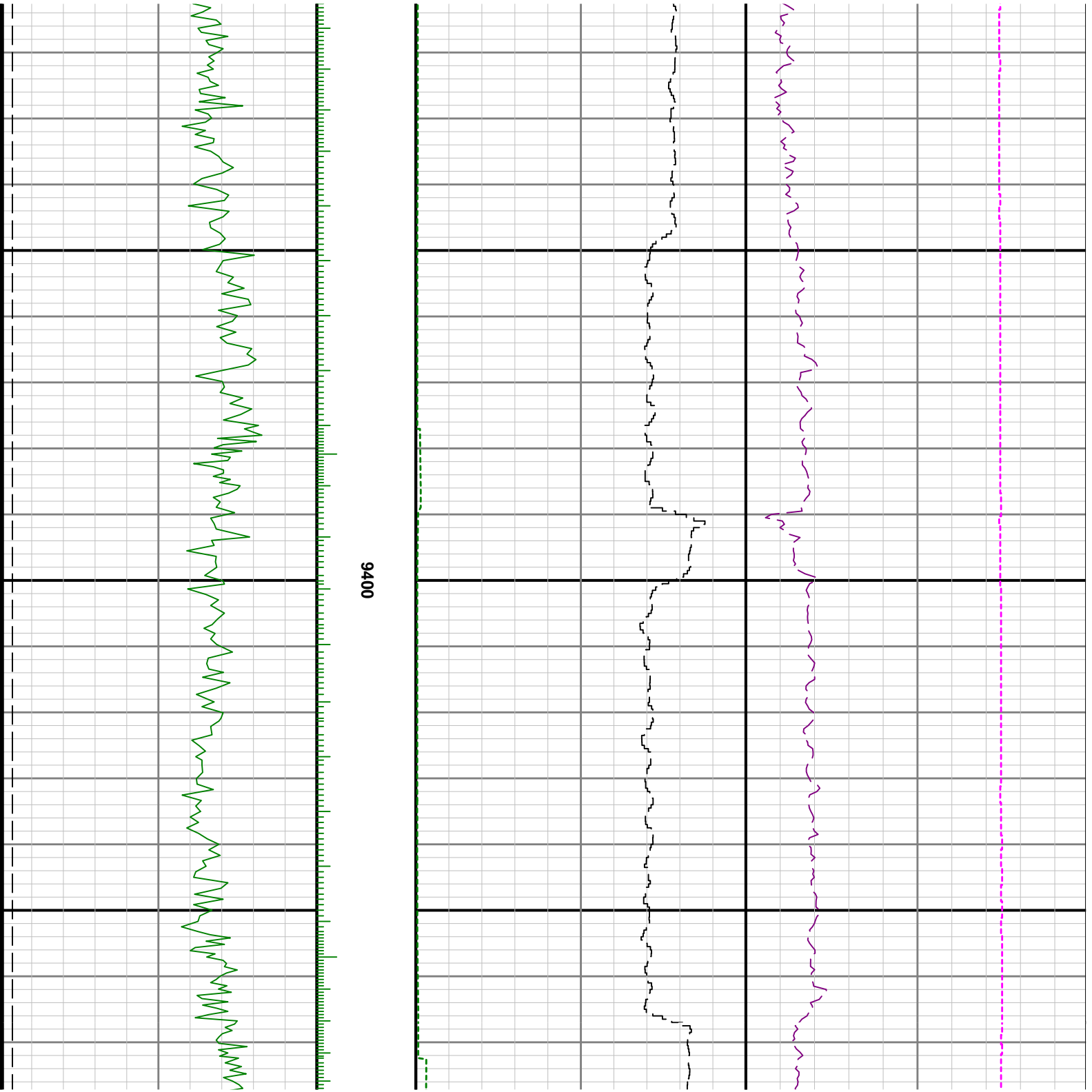


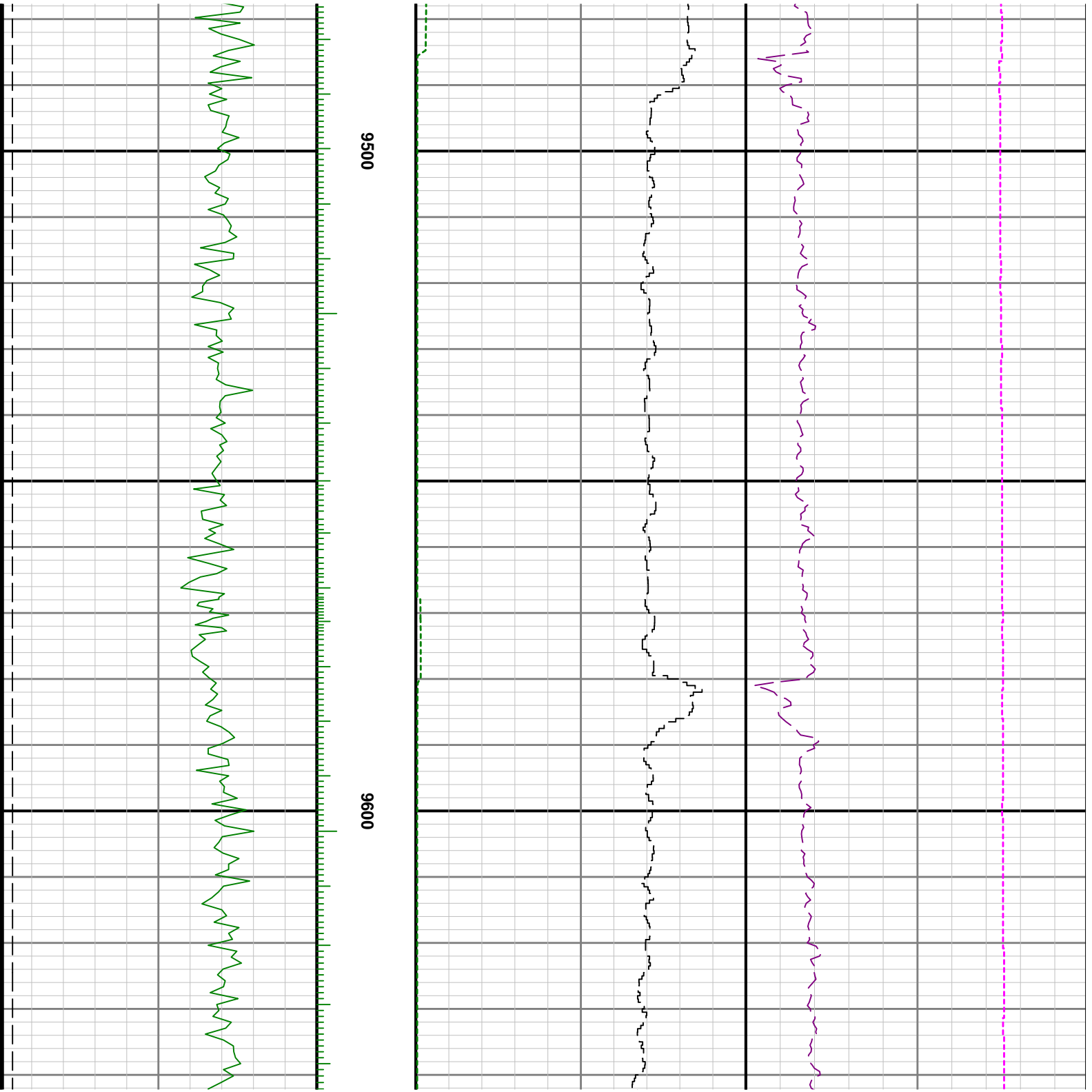


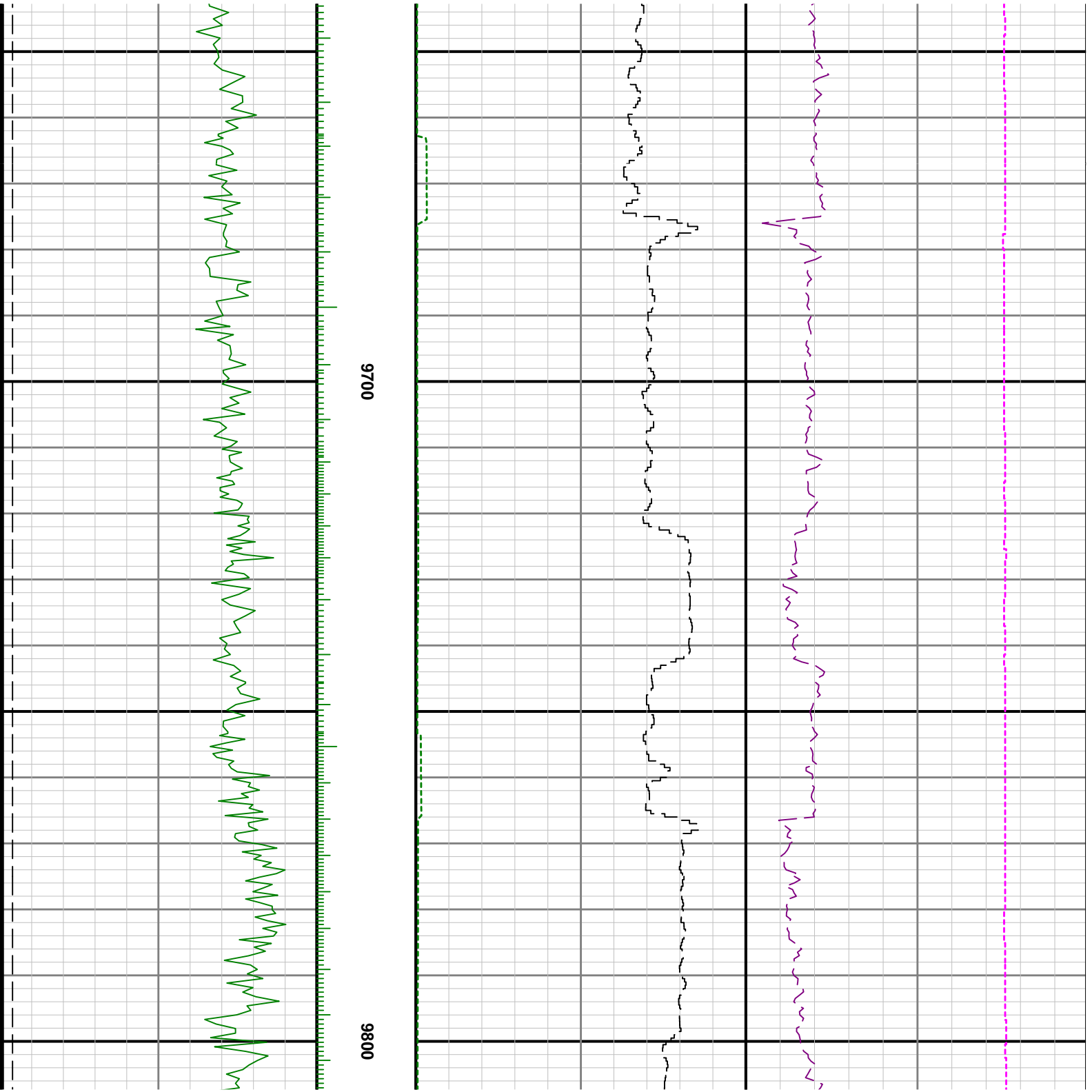
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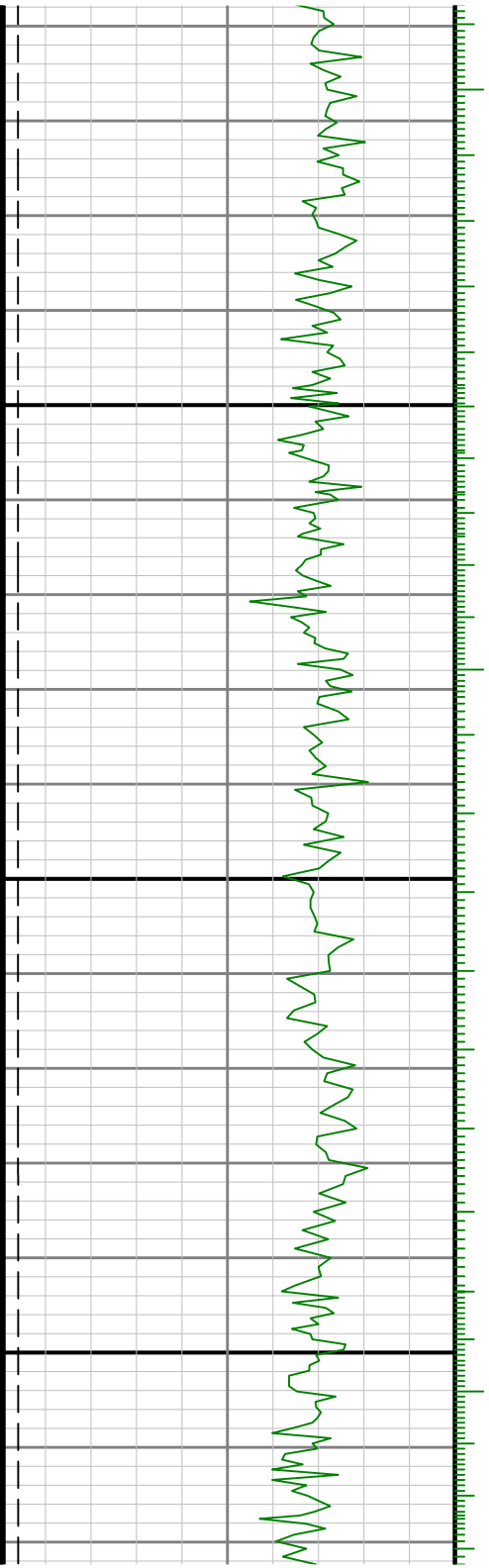




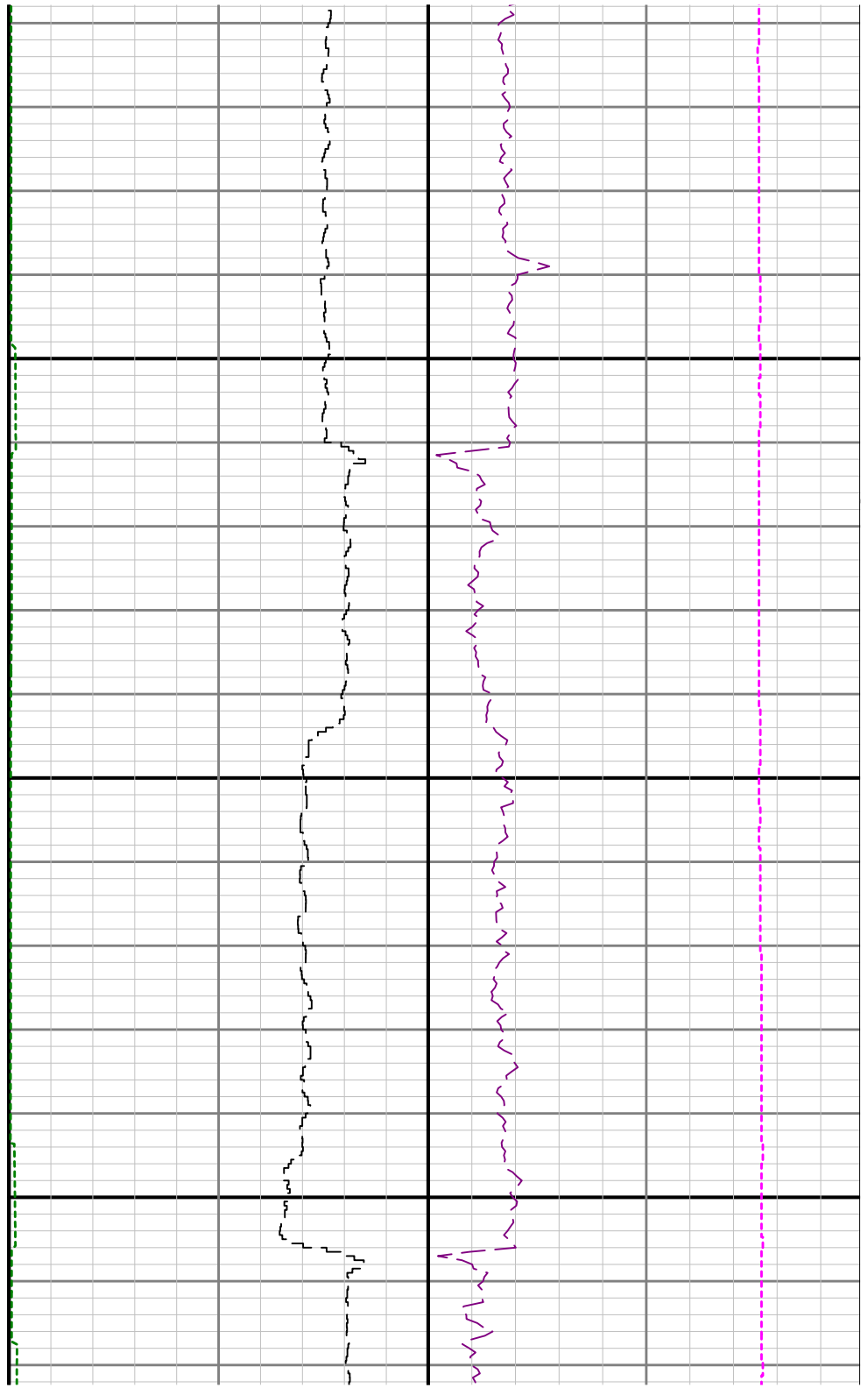


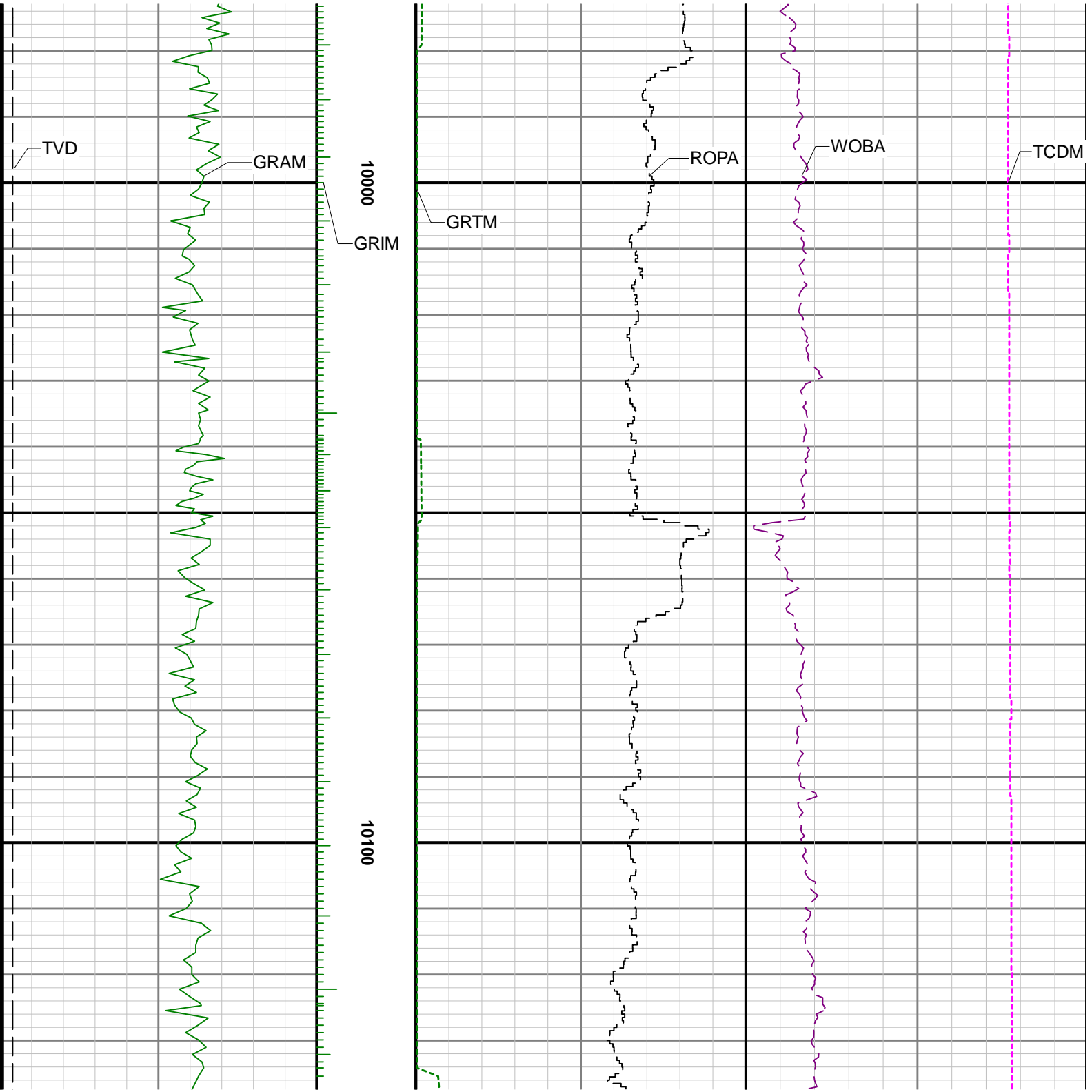


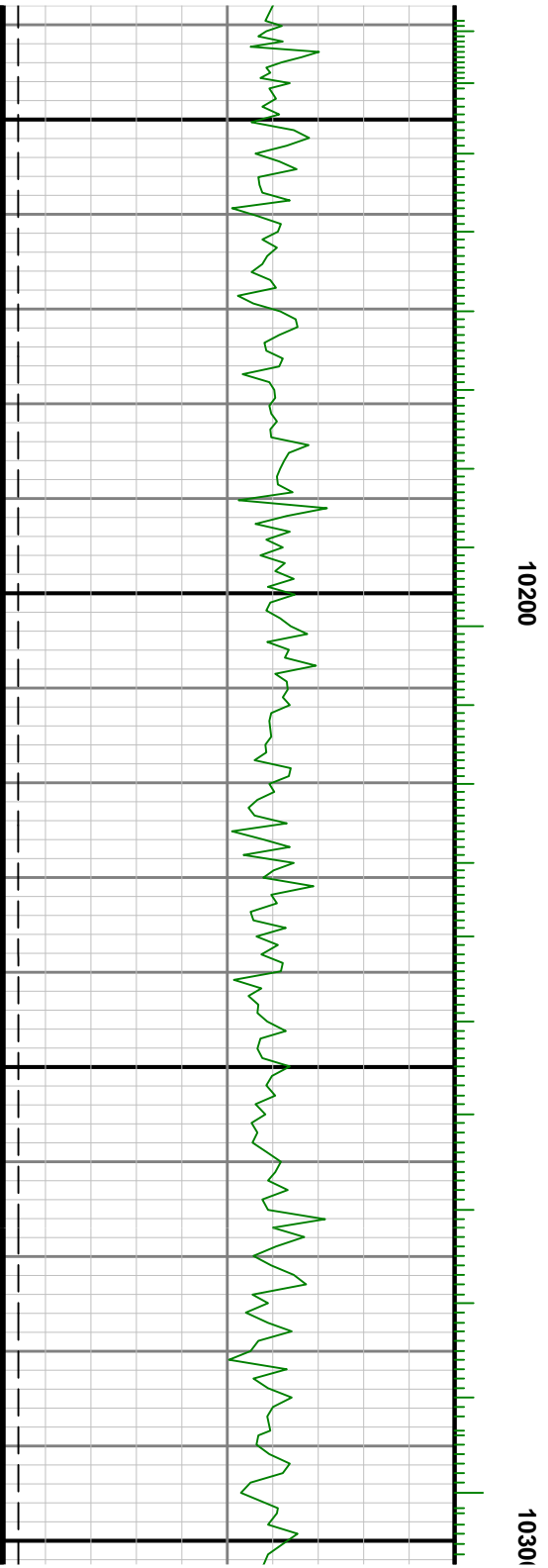


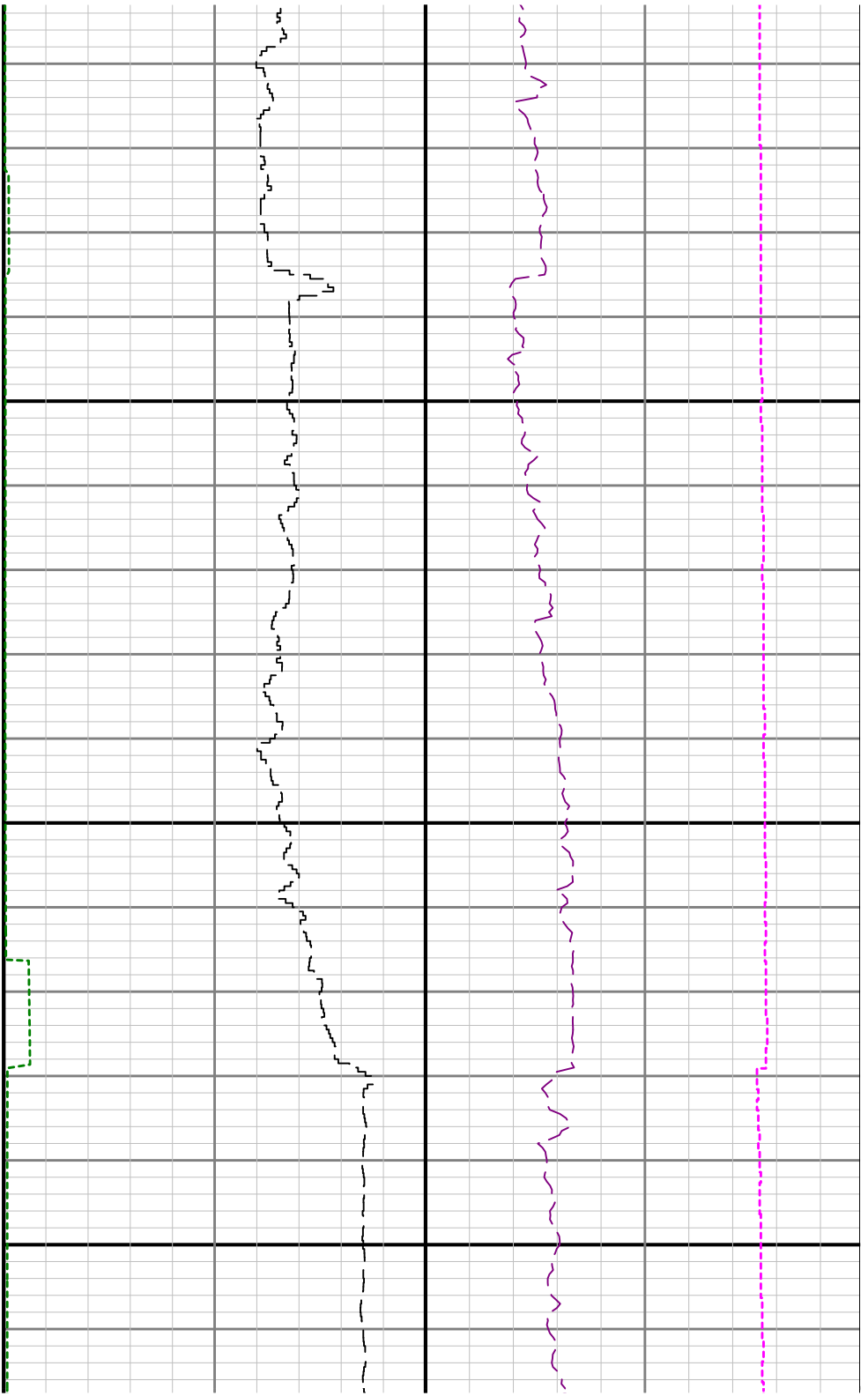


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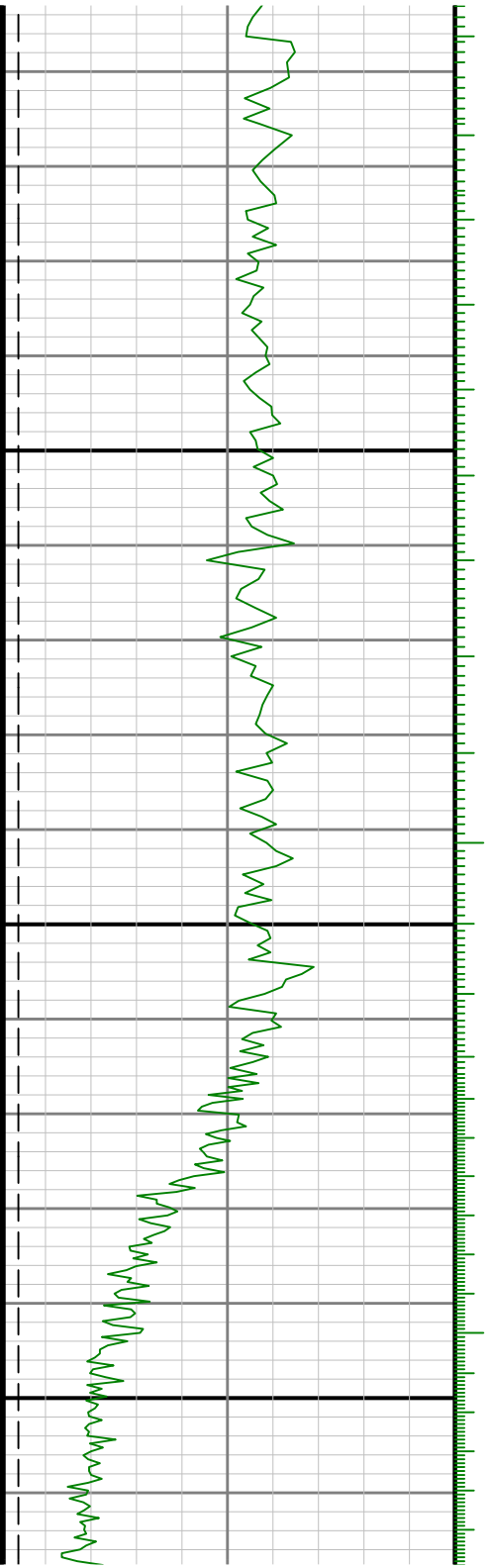


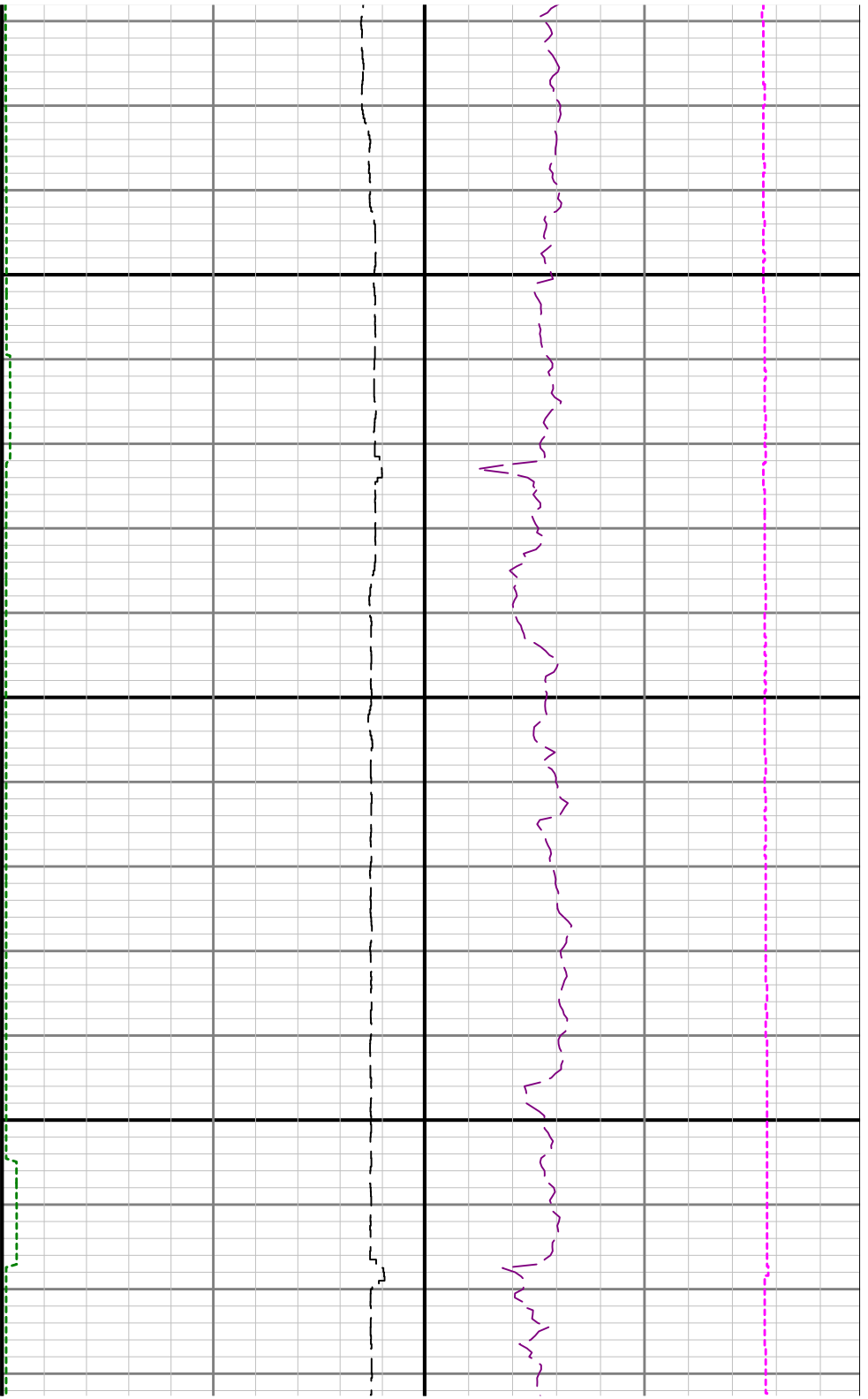






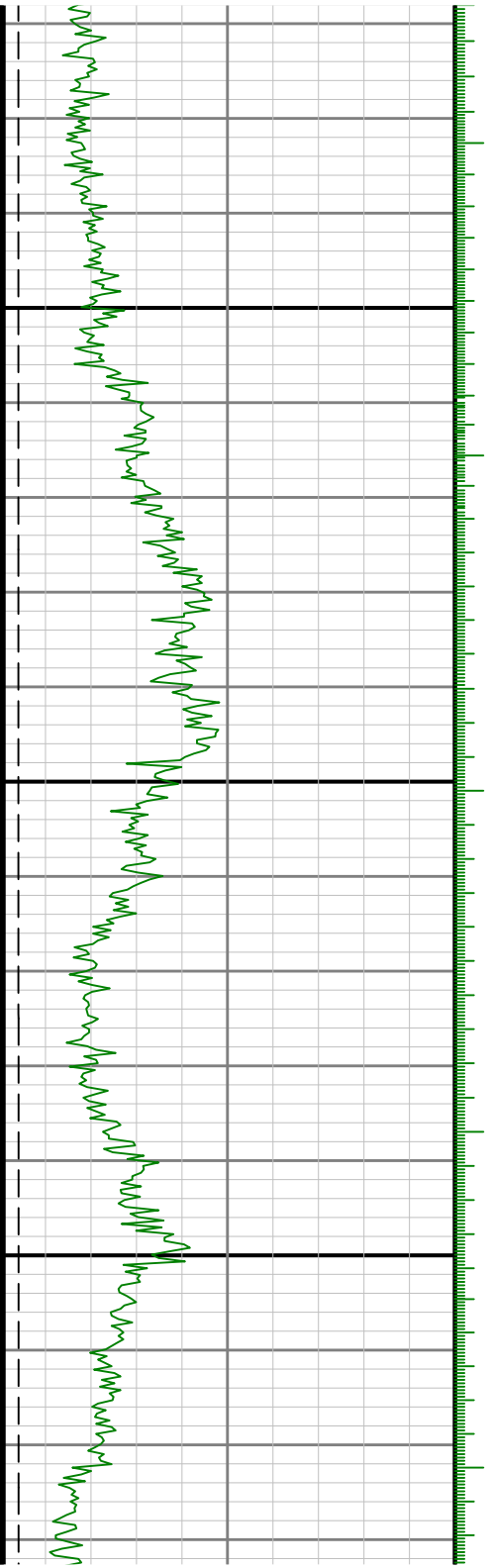
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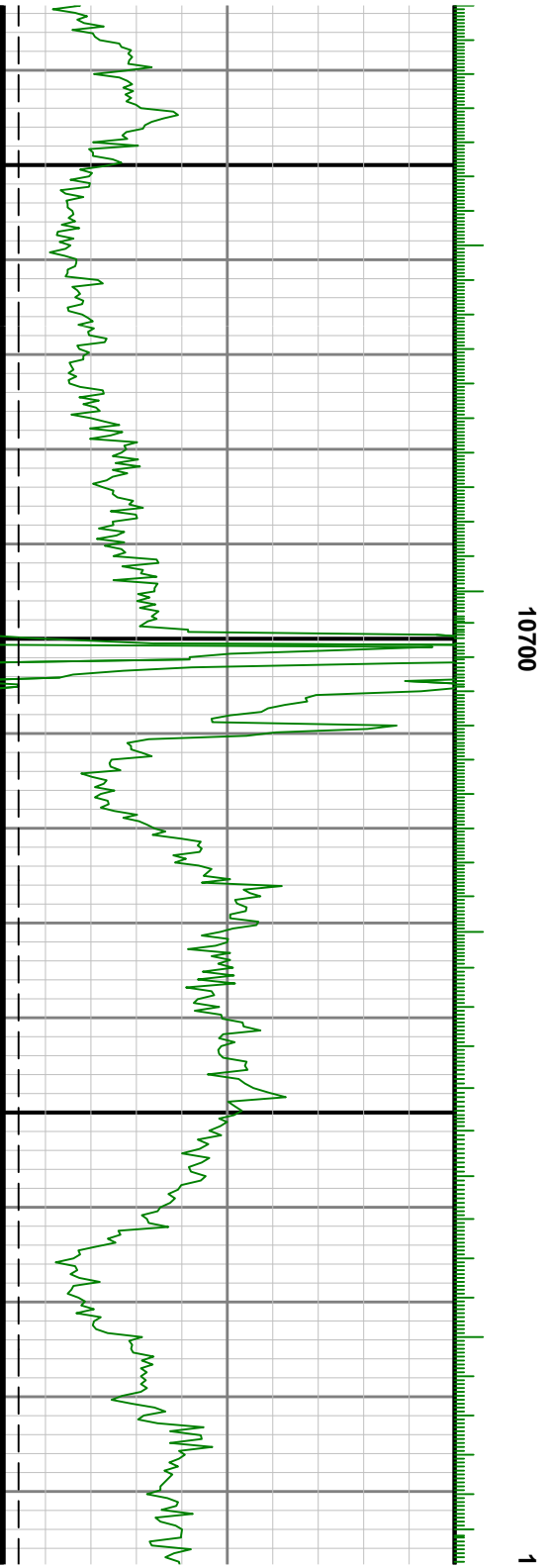
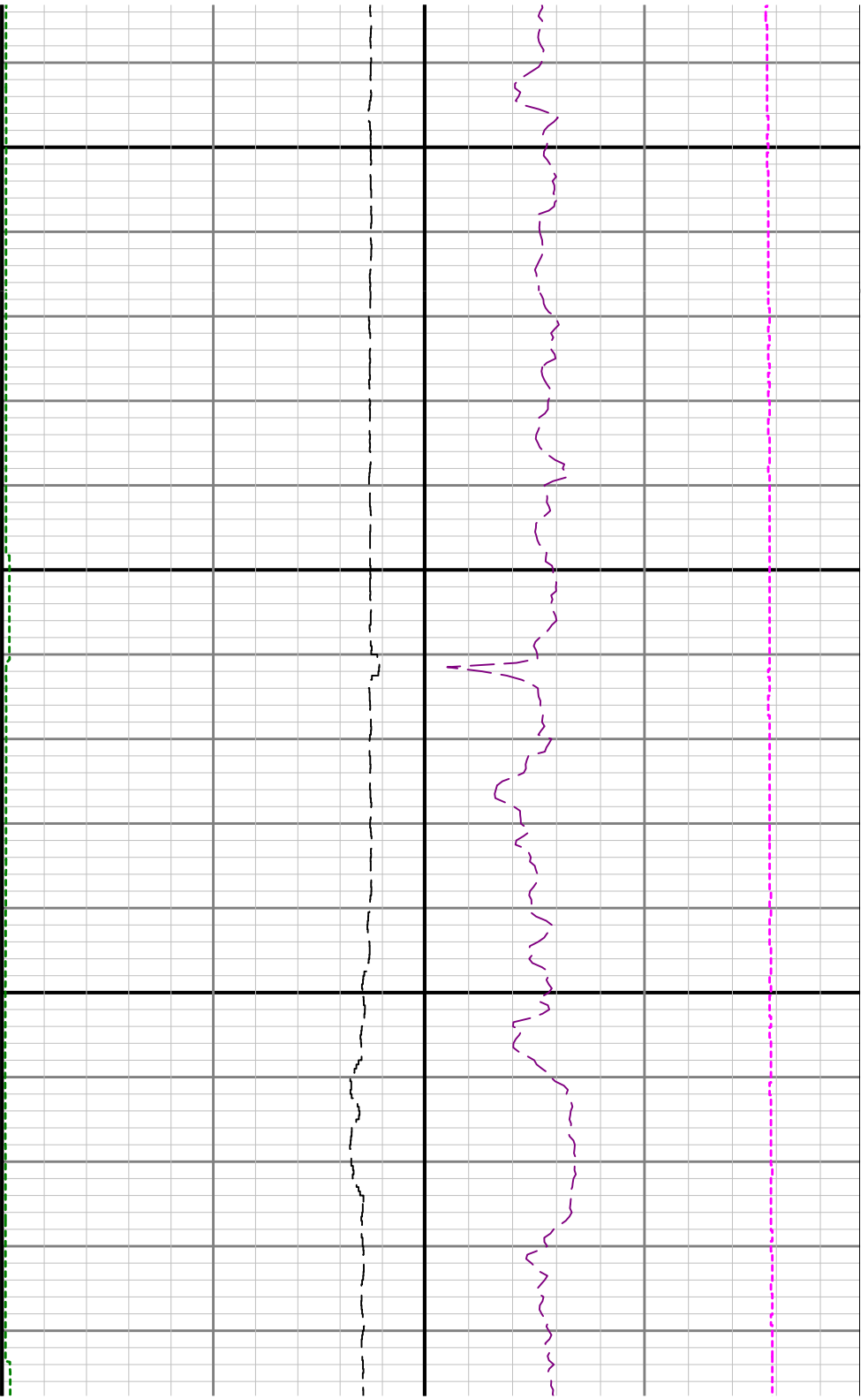


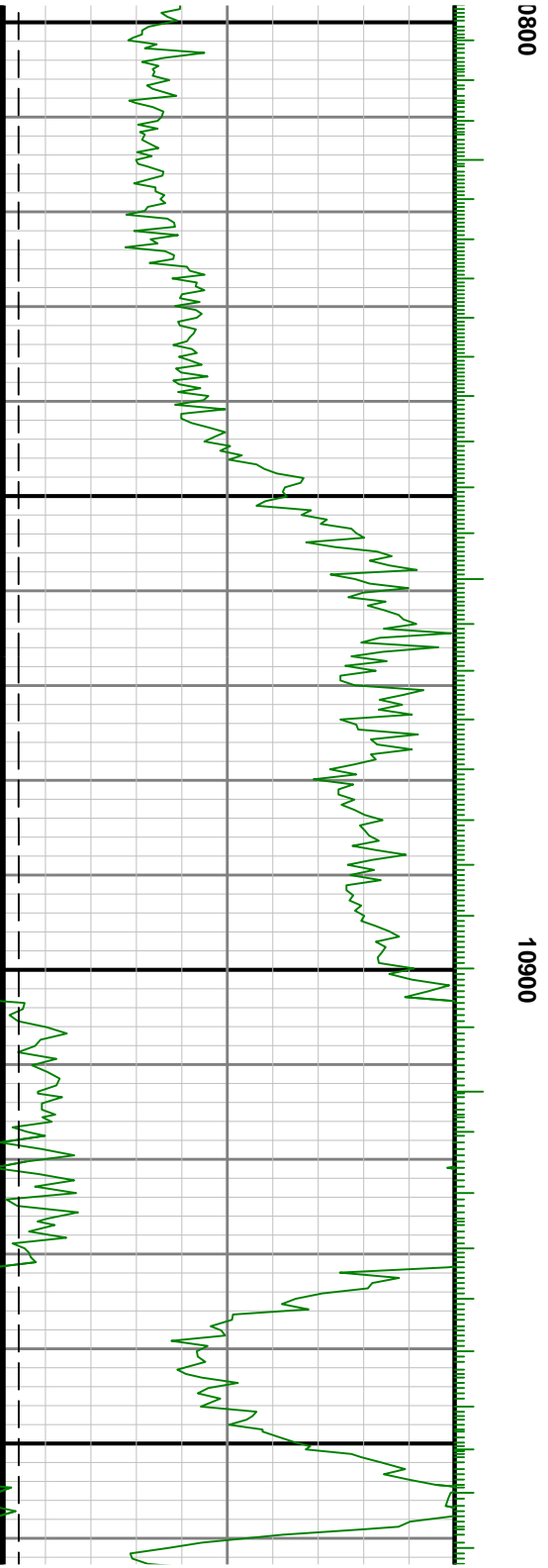
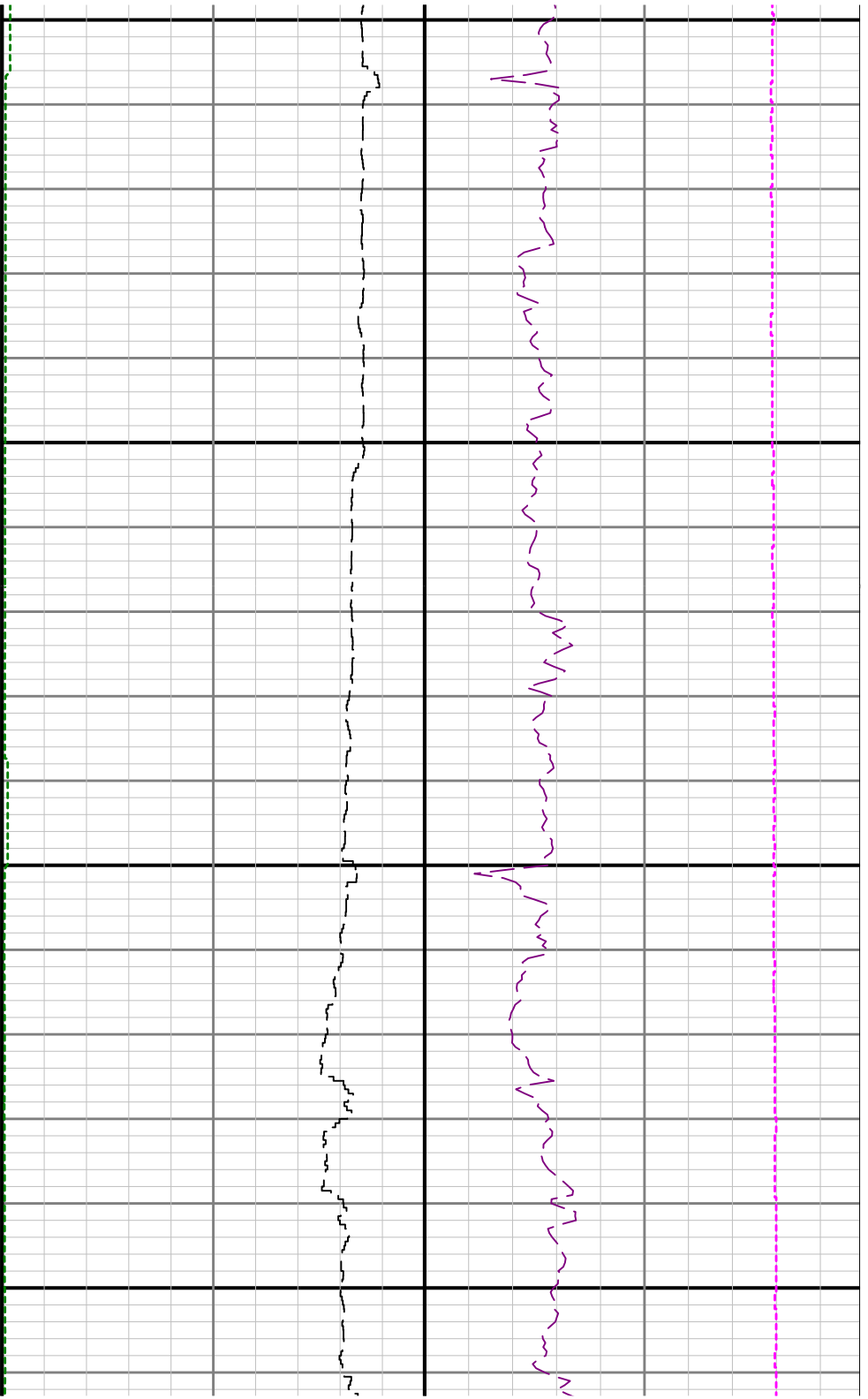


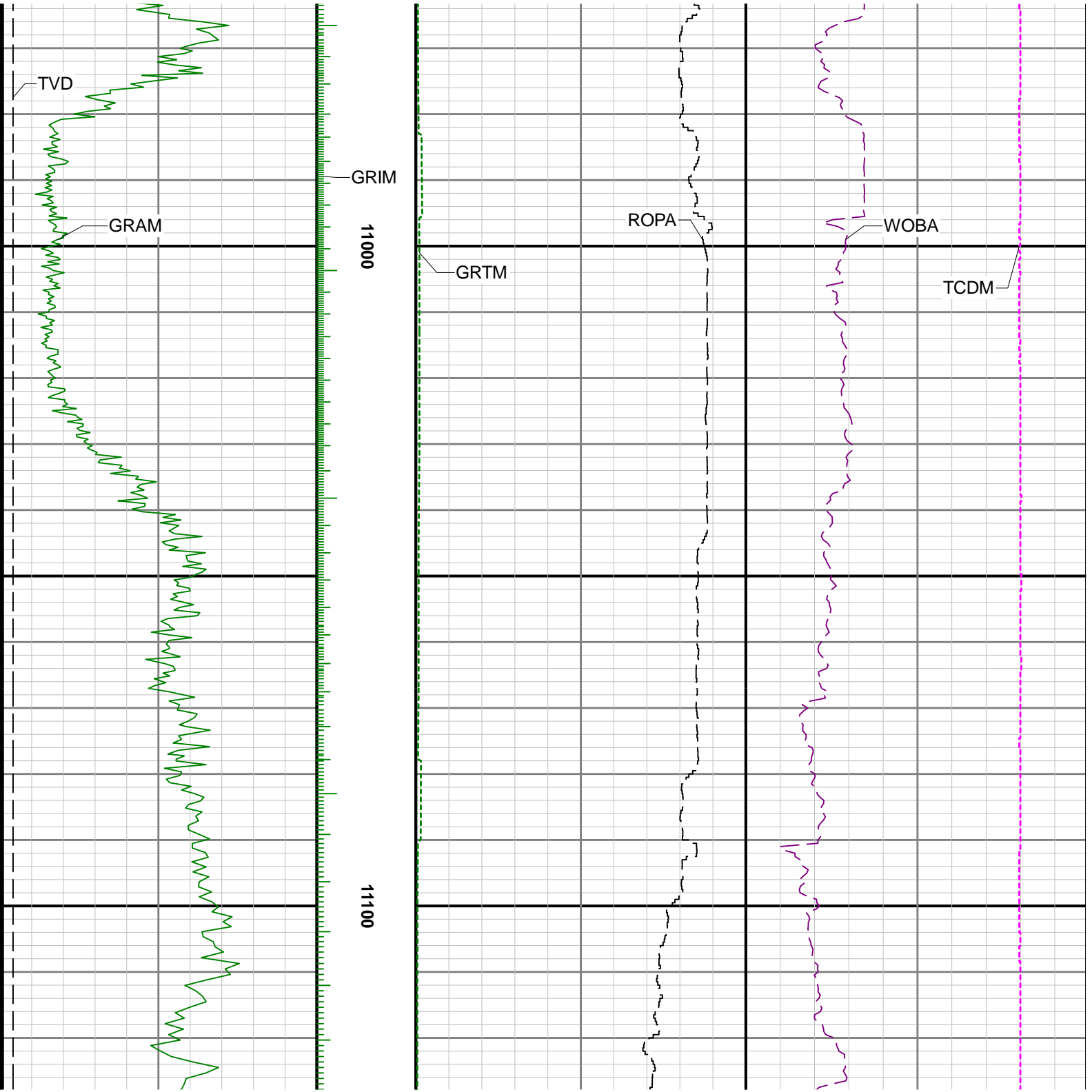
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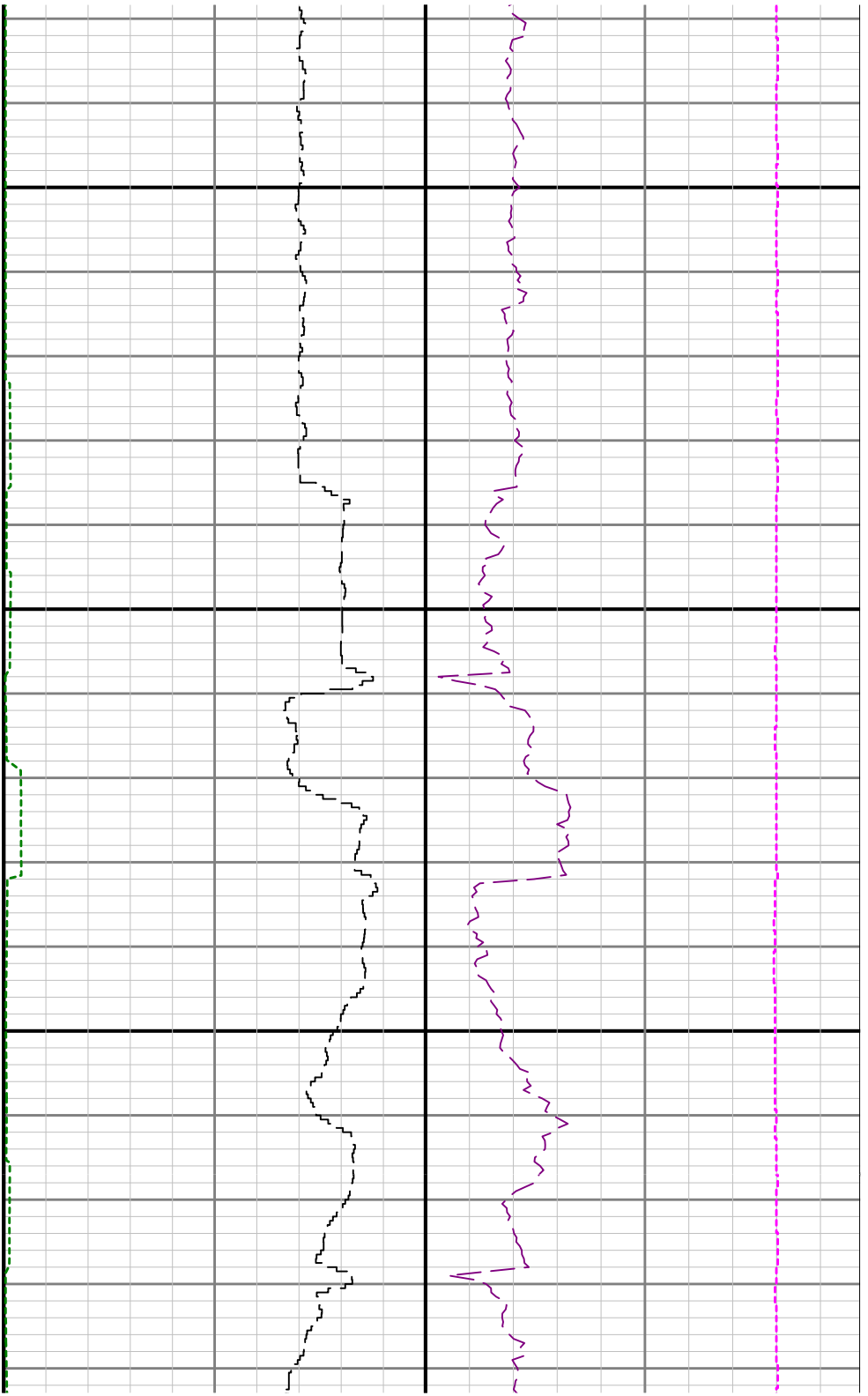
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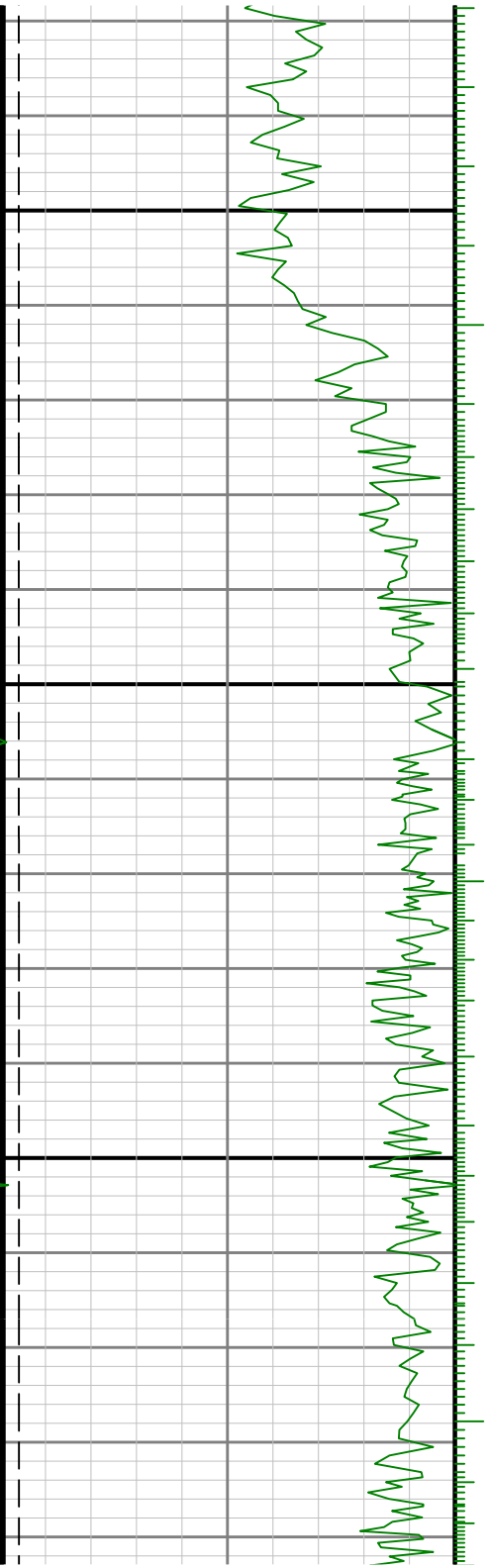


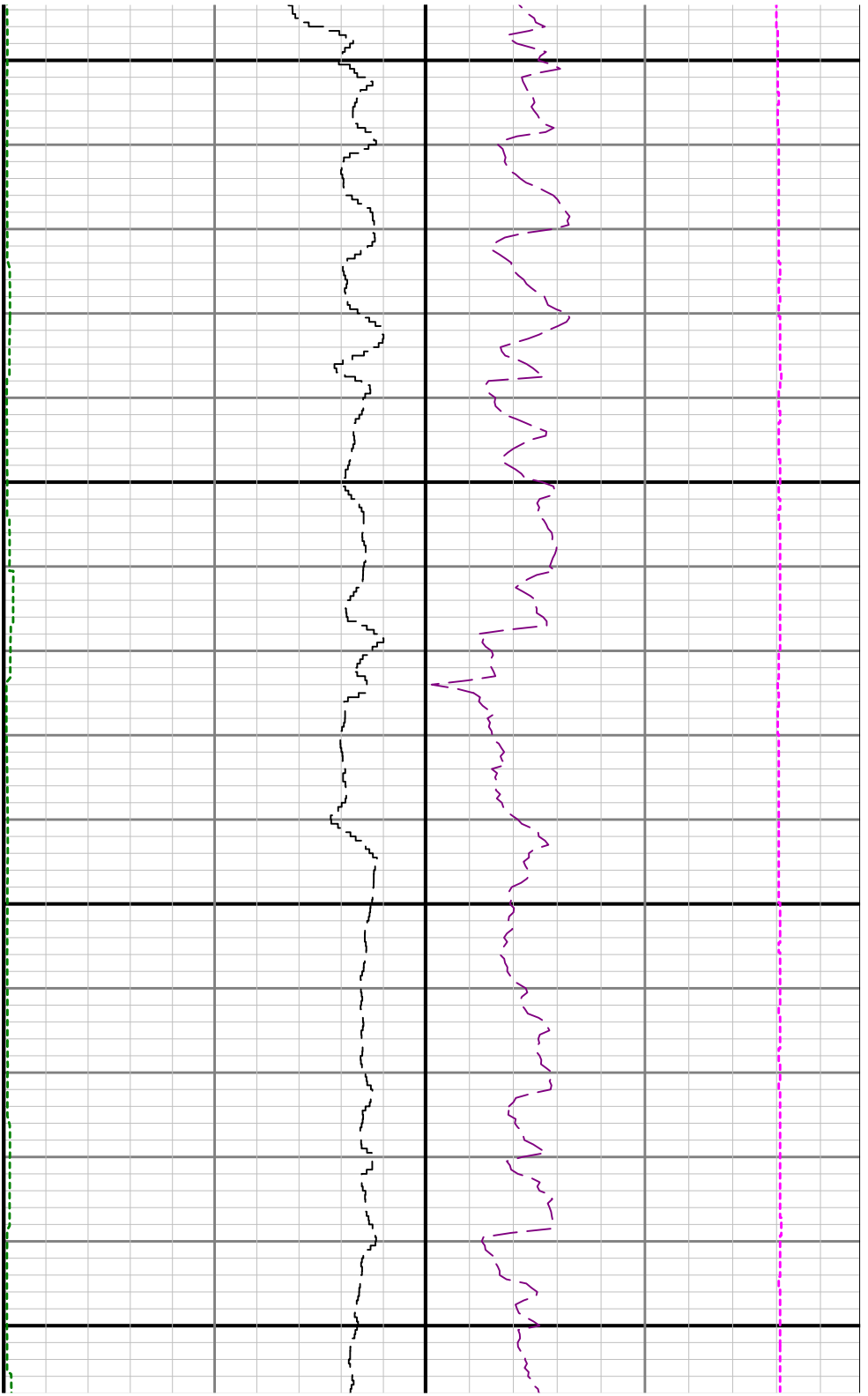






11200

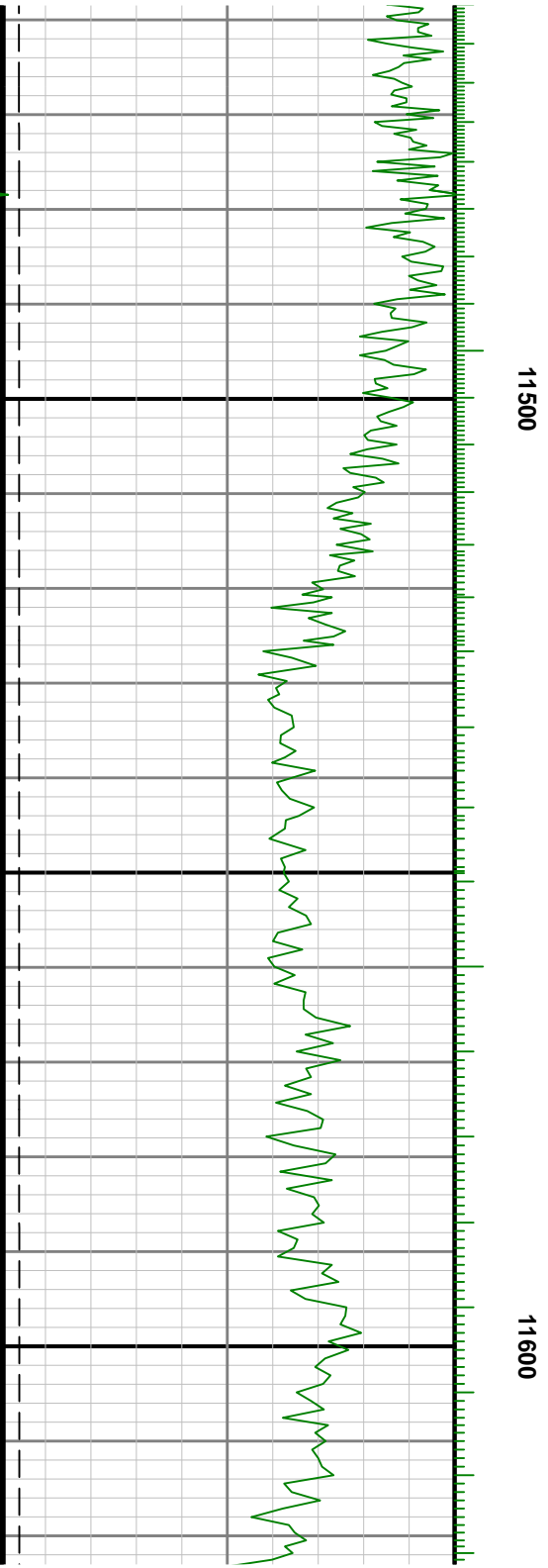
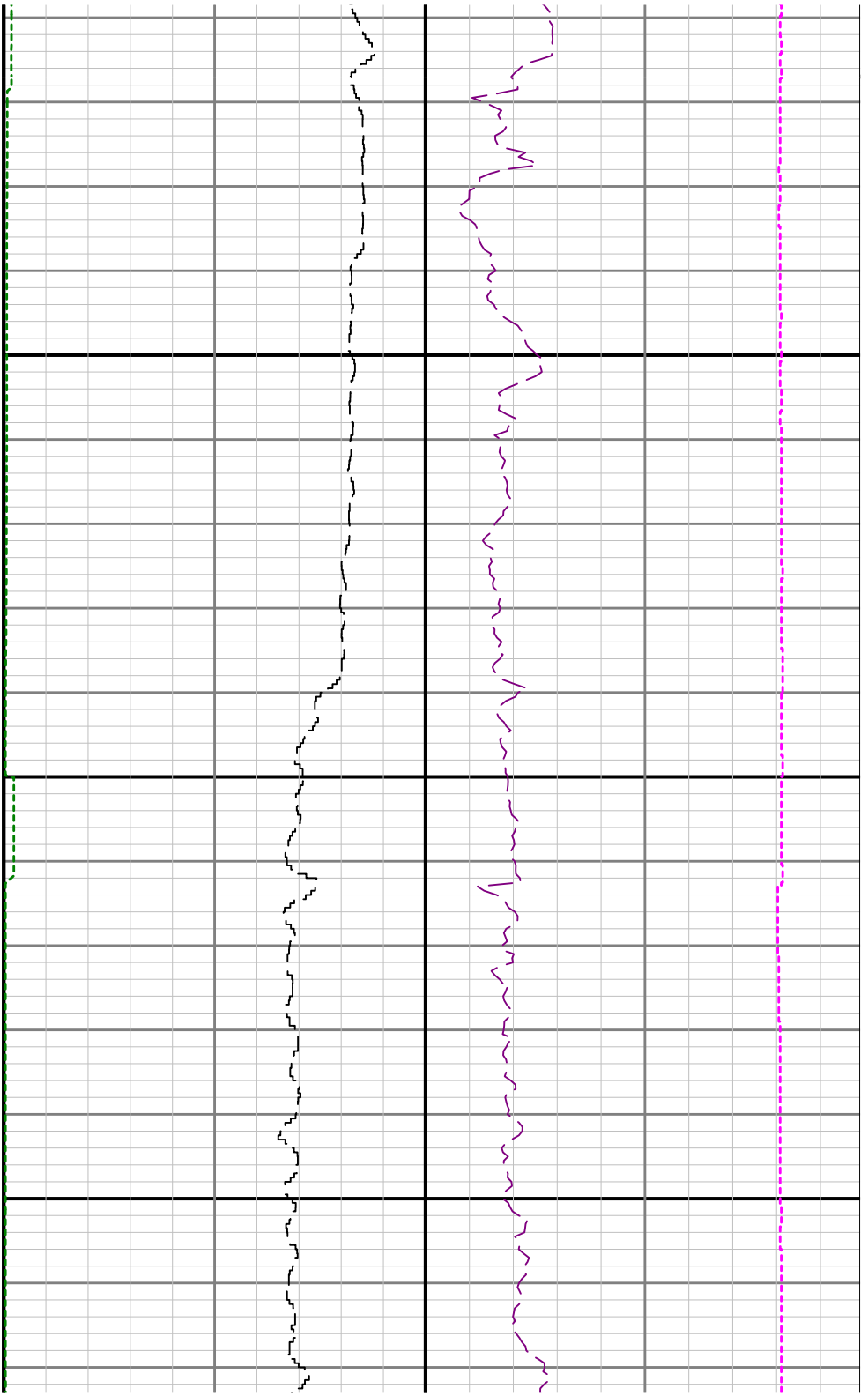


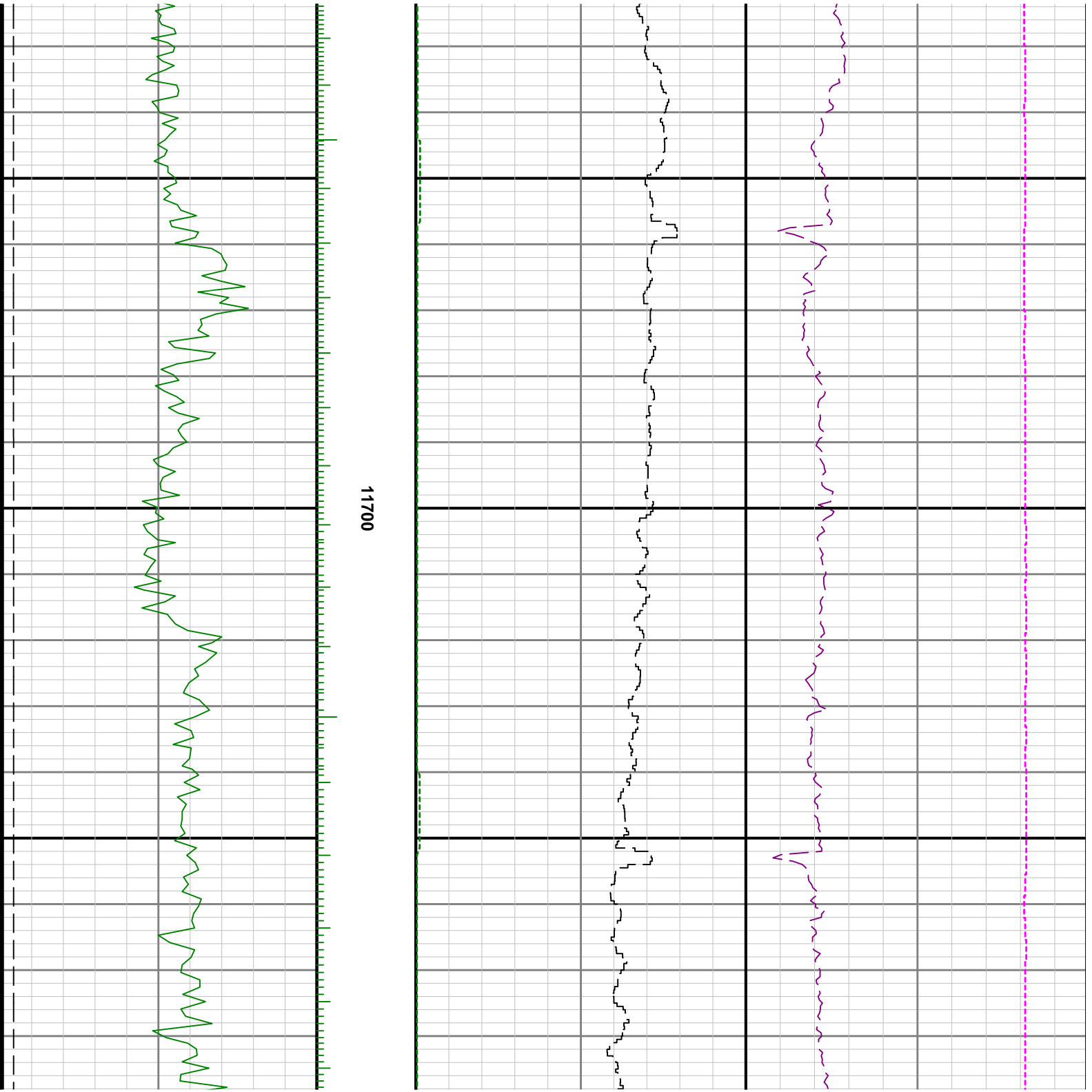


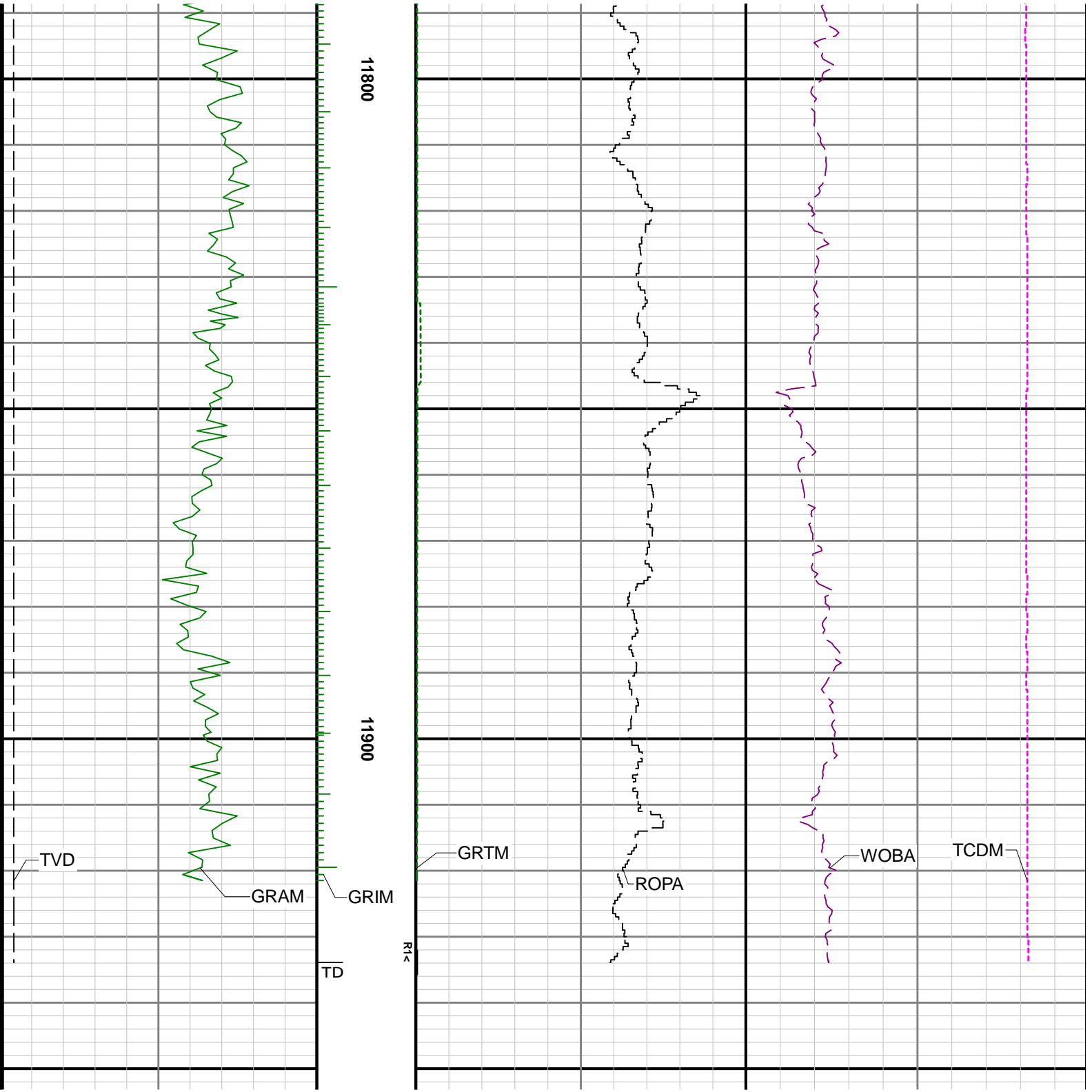
11300

11400









Gamma Ray - Apparent 0.5 ft Average GRAM	MD 1:240 feet	Rate of Penetration 3 ft Average ROPA	Surface 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 TCDM
7000 1800		0 600	0 300
ft		min	degF