

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 cash or cash equivalents that it has received from the other party in connection with the transaction.

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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. Hours (h)
						Top	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	2	7.875	PDC	3.50	Motor	6957.73	7537.95	6999.69	7579.91	2015-09-12 06:42	2015-09-12 11:02	18.81
2	3	7.875	Tricone	6.00	Motor	7545.31	7743.96	7579.91	7778.56	2015-09-12 20:31	2015-09-13 00:50	4.51
3	4	7.875	PDC	3.50	Motor	7732.44	9141.88	7776.00	9185.44	2015-09-13 09:33	2015-09-13 21:00	10.83
4	5	7.875	PDC	2.50	Motor	9143.62	12869.35	9185.44	12909.00	2015-09-14 07:04	2015-09-15 02:28	15.54

Crew

Name		Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite
Andrew Clancy		2015-09-10	2015-09-15	Matt Delmore		2015-09-10	2015-09-13	Sumanth Belawadi		2015-09-13	2015-09-15

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+ (%)
2015-09-11 18:00		1	3529.90	Oil Based Mud	9.2	52	0.0	8.4	60.0/30.0	Active Pit	63000	0.00
2015-09-12 06:00		1	6862.00	Oil Based Mud	9.3	52	0.0	6.0	60.0/30.0	Active Pit	66000	0.00
2015-09-12 18:00		2	7580.00	Oil Based Mud	9.5	52	0.0	8.8	61.0/28.0	Active Pit	63000	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	698	Gamma (single)	10.83	41.96	6.870	2.875
1	NaviGamma	698	Directional (mag)	14.24	45.37	6.870	2.875
1	NaviGamma	698	VSS	14.24	45.37	6.870	2.875
2	NaviGamma	698	Gamma (single)	10.83	34.60	6.870	2.875
2	NaviGamma	698	Directional (mag)	14.24	38.01	6.870	2.875
2	NaviGamma	698	VSS	14.24	38.01	6.870	2.875
3	NaviGamma	698	Gamma (single)	10.83	43.56	6.870	2.875
3	NaviGamma	698	Directional (mag)	14.24	46.97	6.870	2.875
3	NaviGamma	698	VSS	14.24	46.97	6.870	2.875
4	NaviGamma	698	Gamma (single)	10.83	41.82	6.870	2.875
4	NaviGamma	698	Directional (mag)	14.24	45.37	6.870	2.875
4	NaviGamma	698	VSS	14.24	45.37	6.870	2.875

4	NaviGamma	698	Directional (mag)	14.24	45.23	6.870	2.875
4	NaviGamma	698	VSS	14.24	45.23	6.870	2.875

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, 2, 3 and 4 utilized a 6 1/2 inch Navigamma (Directional and Gamma Ray) tool behind an 7 7/8 inch bit and steerable assembly from 1867 to 12909 feet MD (1839.48 to 7509.45 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
1	7000.00	7.875	1	Logging services began at 7000 feet MD. No logging data prior to 7000 feet MD (6849.43 TVD) as per client request.
2	7538.00	7.875	1	The interval between 7538 feet and 7580 feet MD (7338.69 to 7369.04 feet TVD) was logged up to 6 hours due to changing out to a 2.7 motor and a new bit after insufficient build rates in the curve during Run 1.
3	7746.00	7.875	2	The interval between 7746 feet and 7776 feet MD (7453.74 to 7461.84 feet TVD) was logged up to 7 hours due to changing out to a 1.5 motor and a PDC bit after sufficient build rates were achieved, but unable to rotate with the 2.7 motor assembly to land curve.
4	9145.00	7.875	3	The interval between 9141 feet and 9185 feet MD (7507.58 to 7507.84 feet TVD) was logged up to 9 hours due to changing out to a 2.1 motor and a new bit after insufficient ROP's were seen during Run 3 (Upon surface inspection the bit was DBR'd).
5	12900.00	7.875	4	No GRAX, GRTX and GRIX from 12869 feet to 12909 feet MD (7510.44 to 7509.45 feet TVD) due to sensor offset to bit.

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

Carter 35C-33HZ

Date From:2015-09-12 00:42

Date To:2015-09-15 01:30

2015-09-15 02:34

Top:7000.00

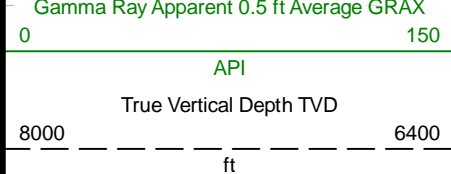
Bottom:12909.00

Gamma Ray Apparent 0.5 ft Average GRAX

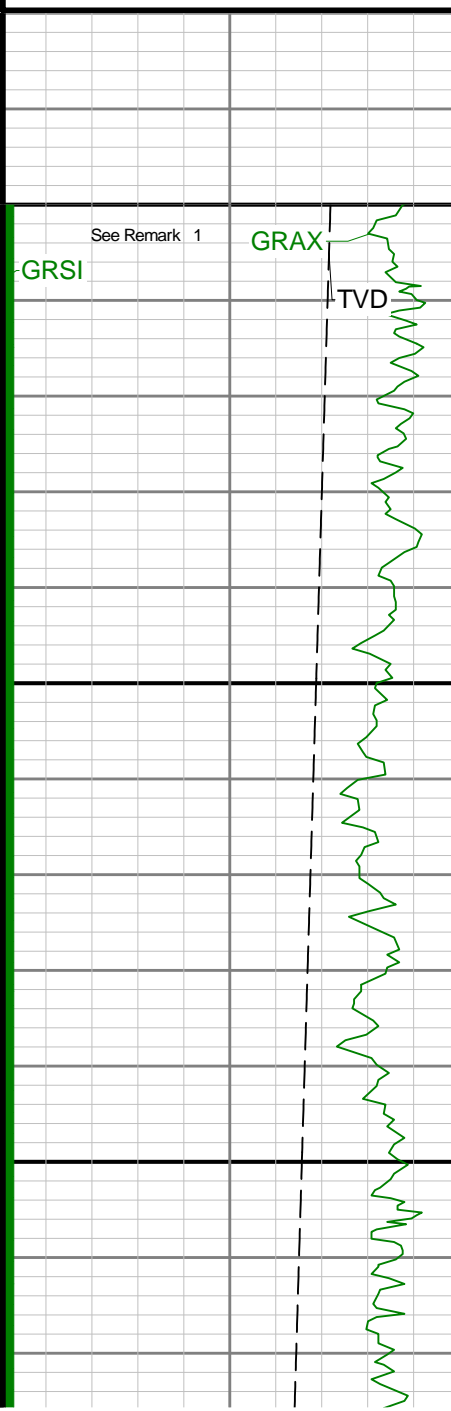
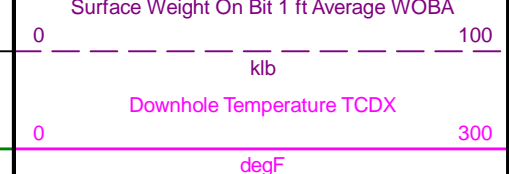
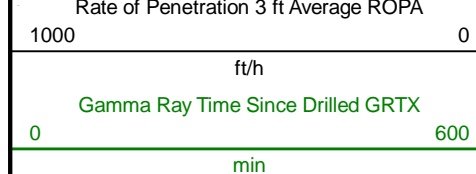
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Depth of Penetration 3 ft Average ROPA

Surface Weight On Bit 1 ft Average WOBA

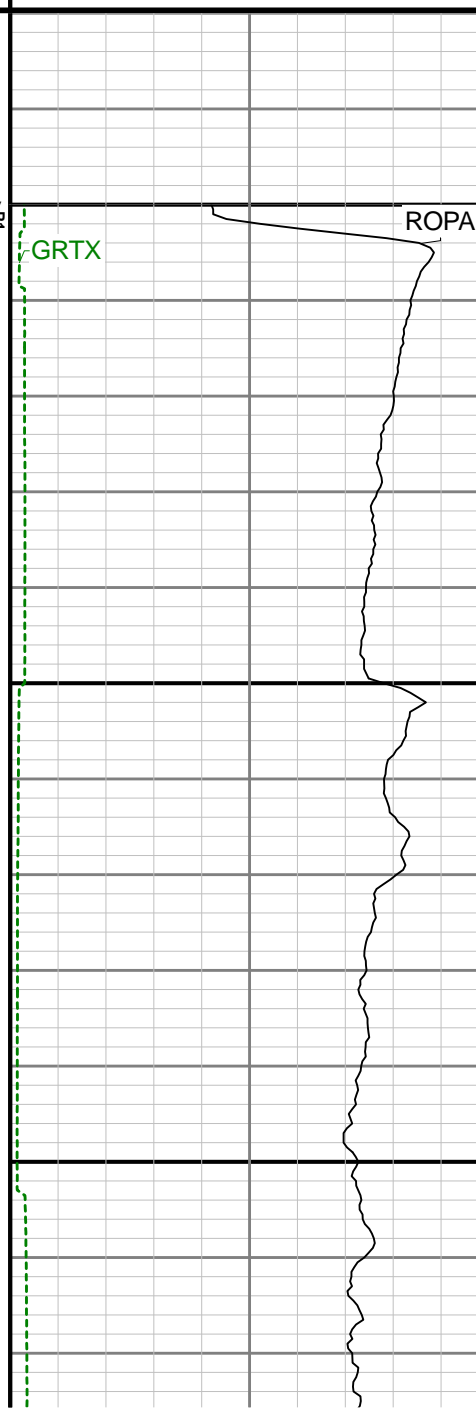


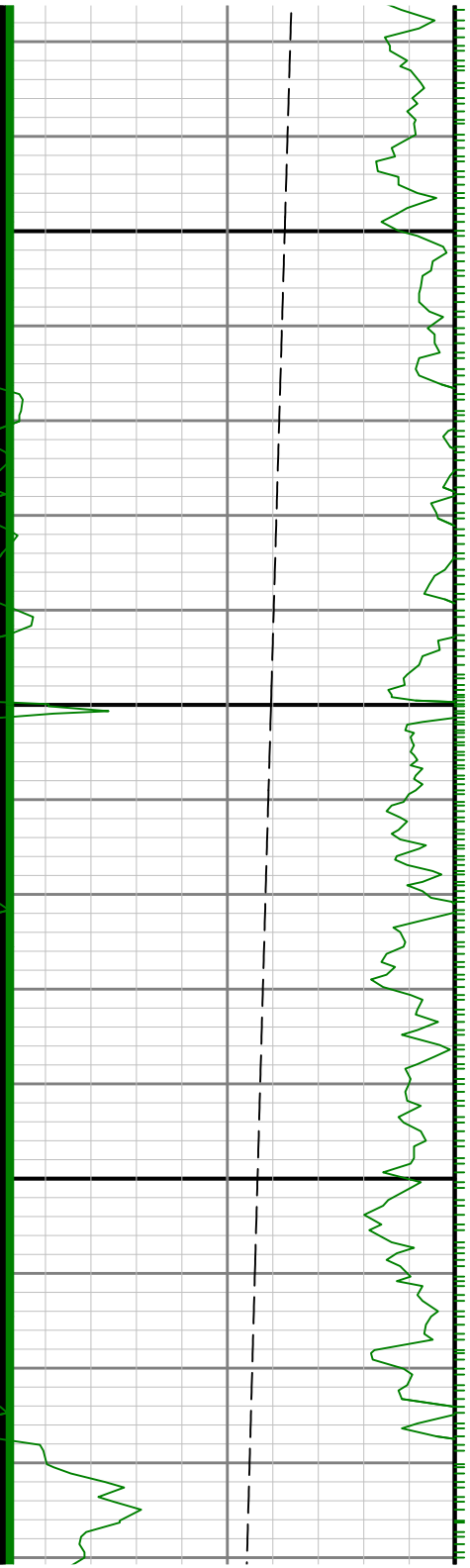
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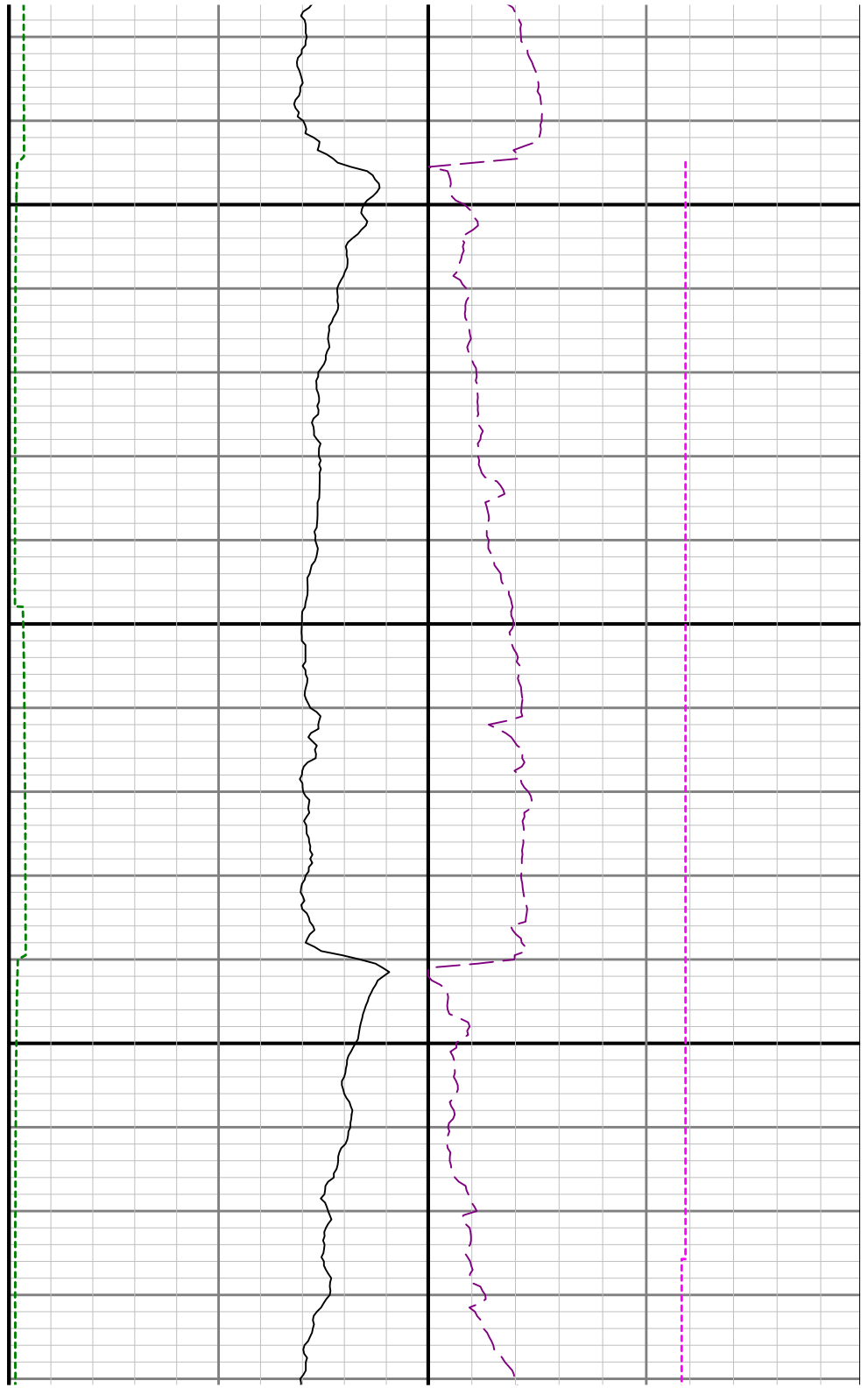
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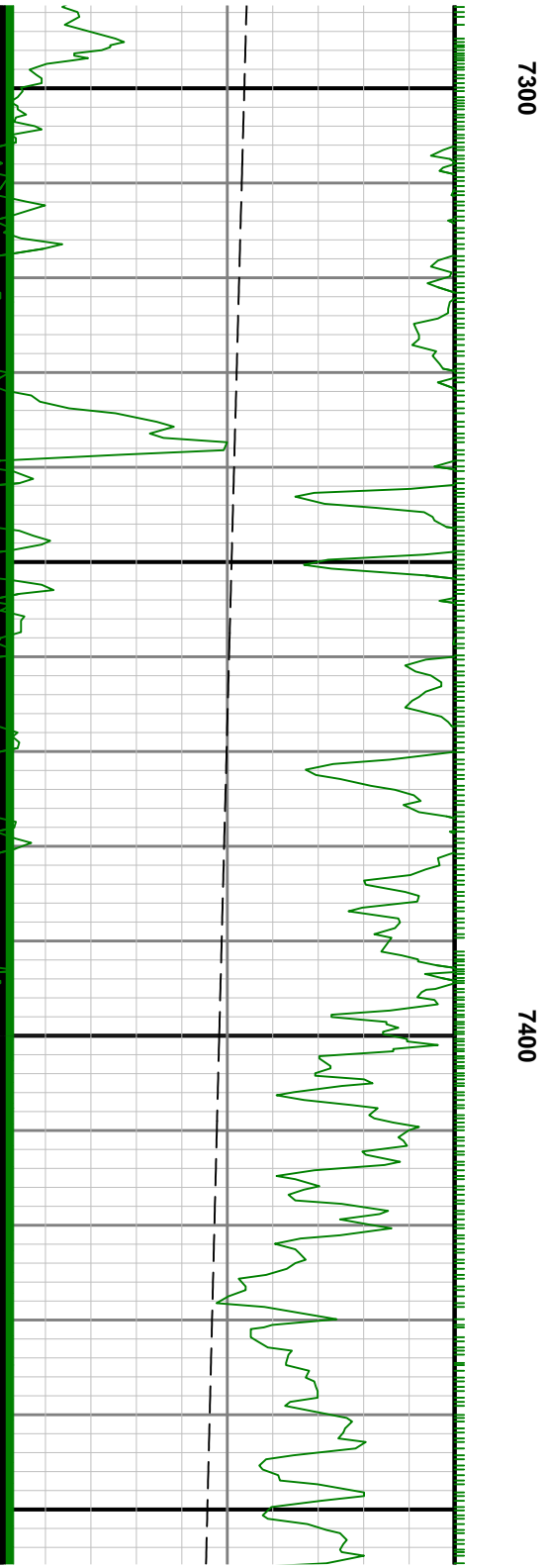
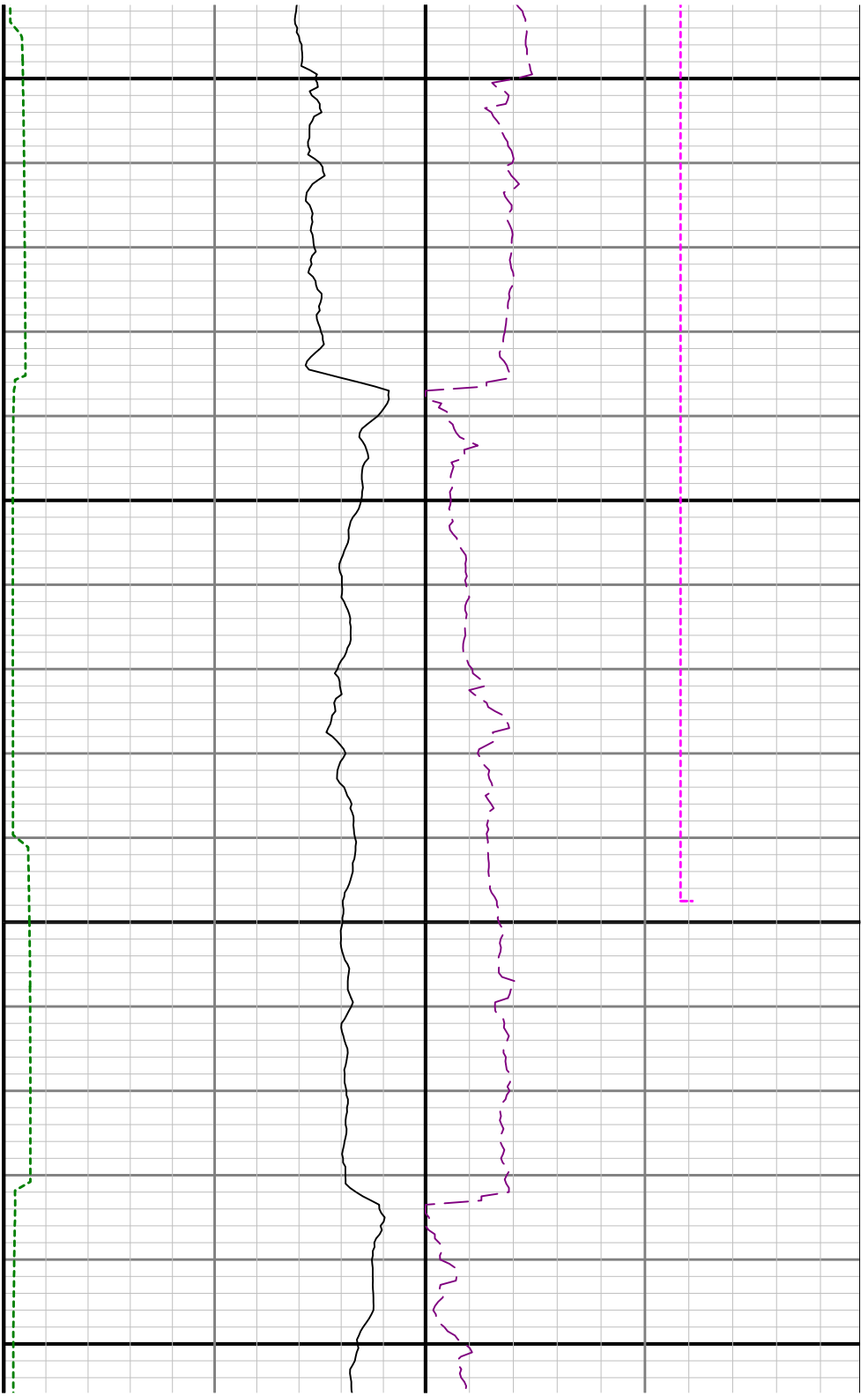
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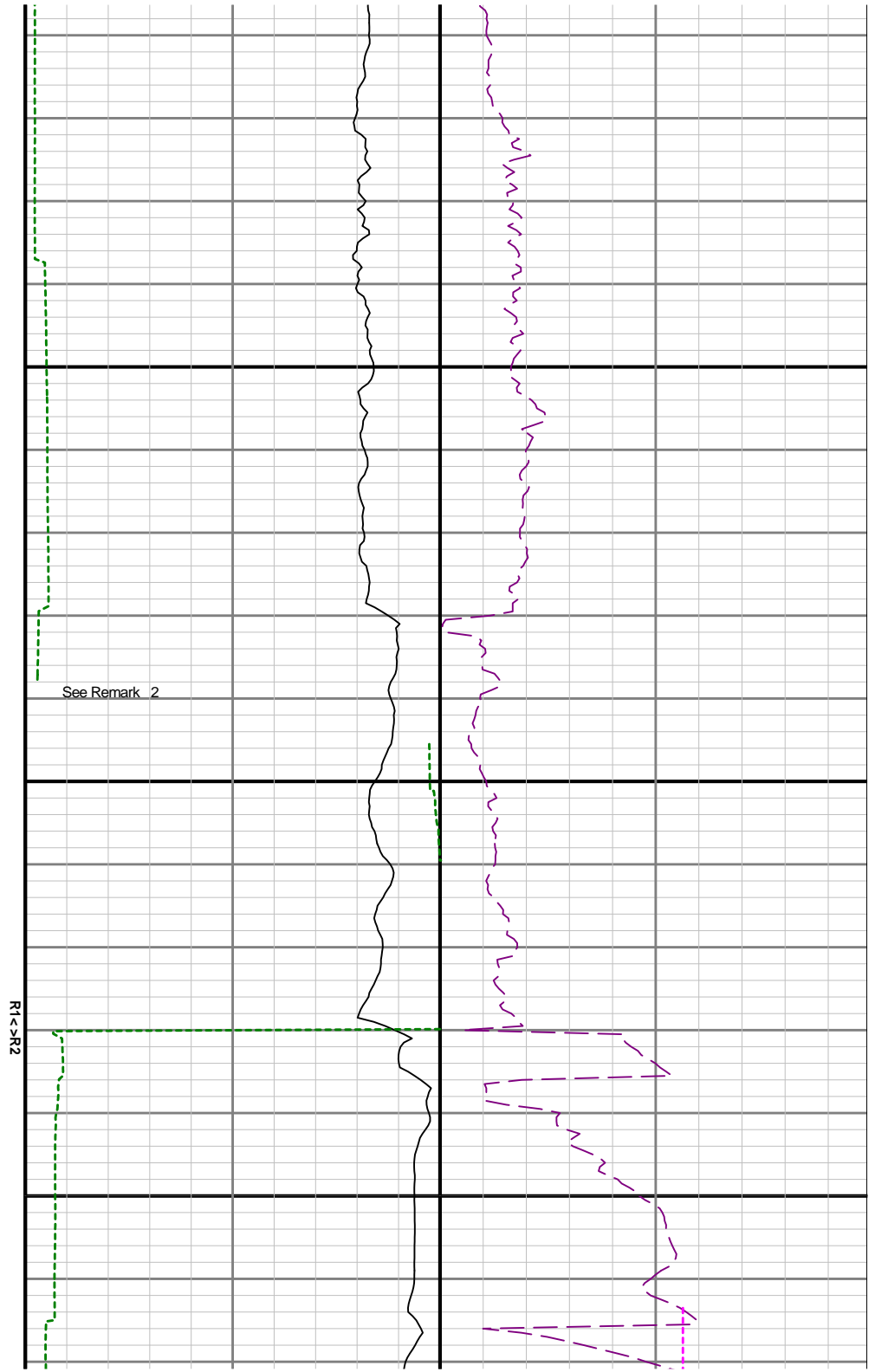
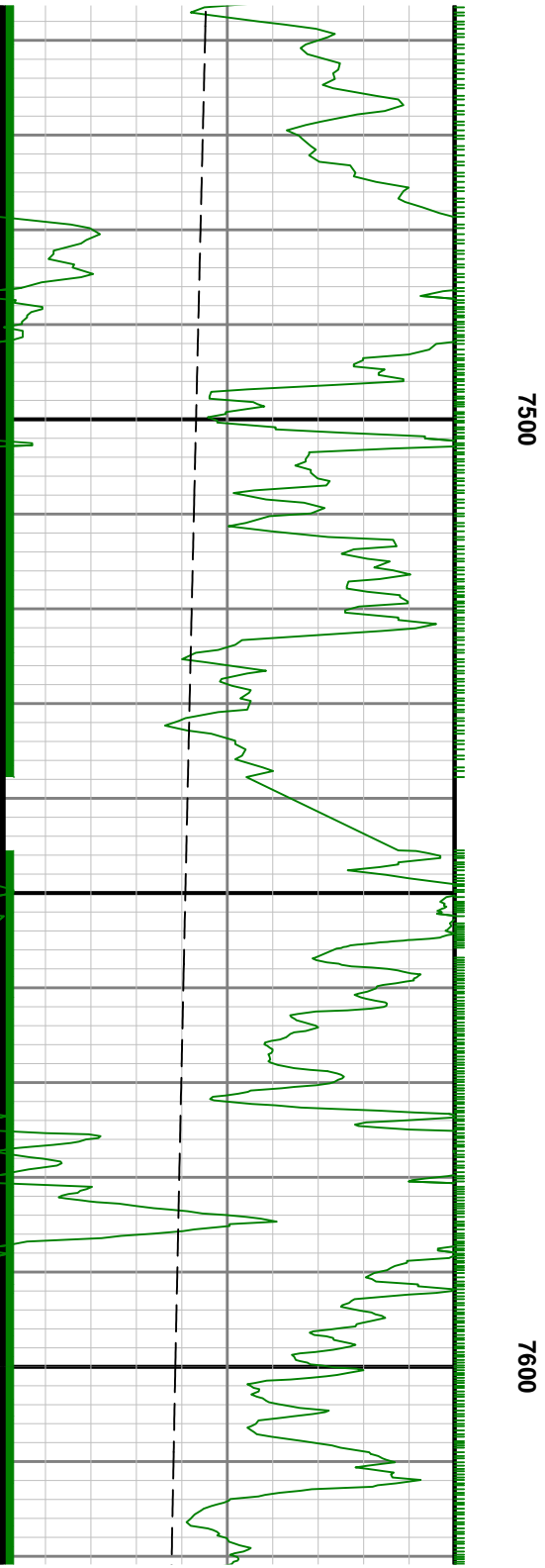


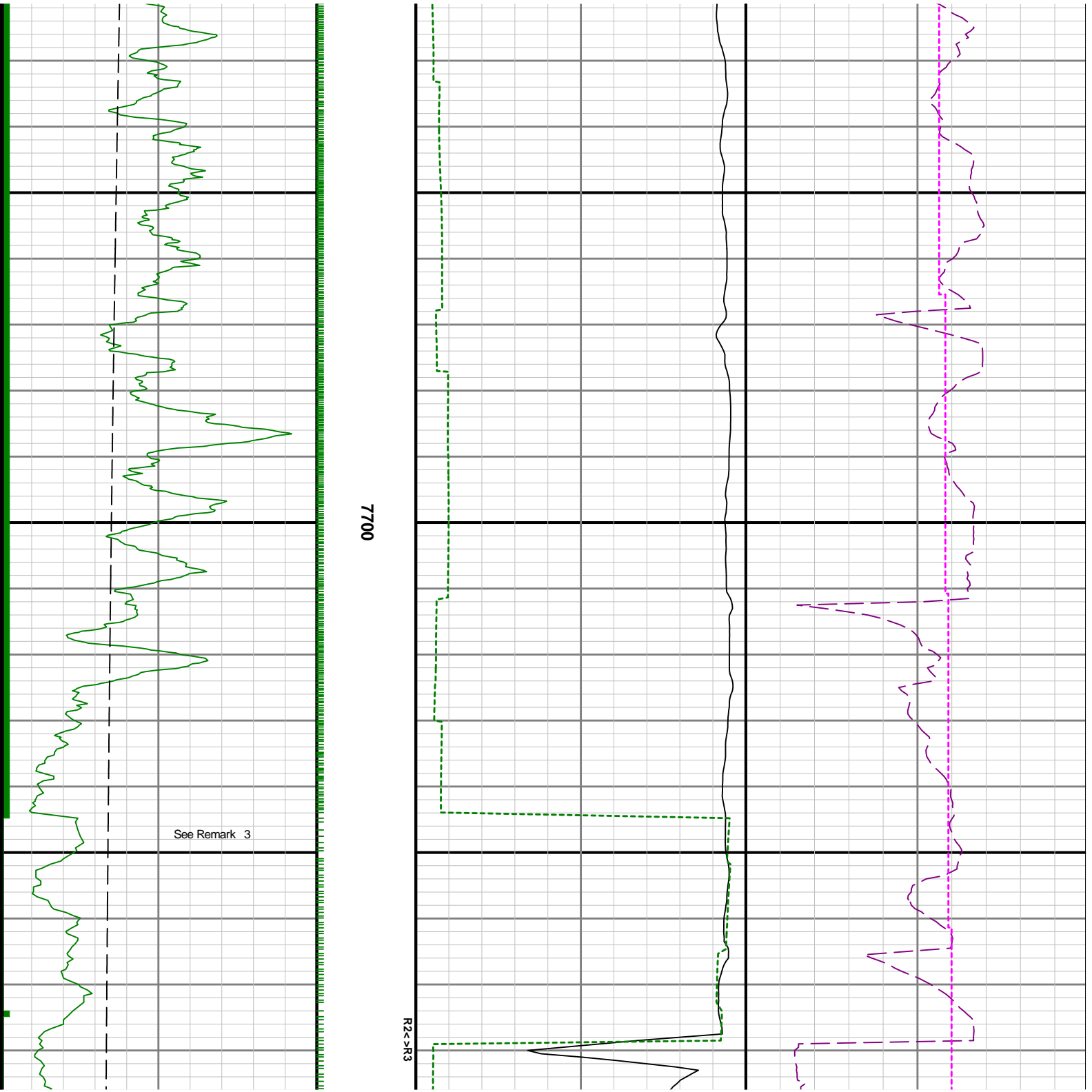


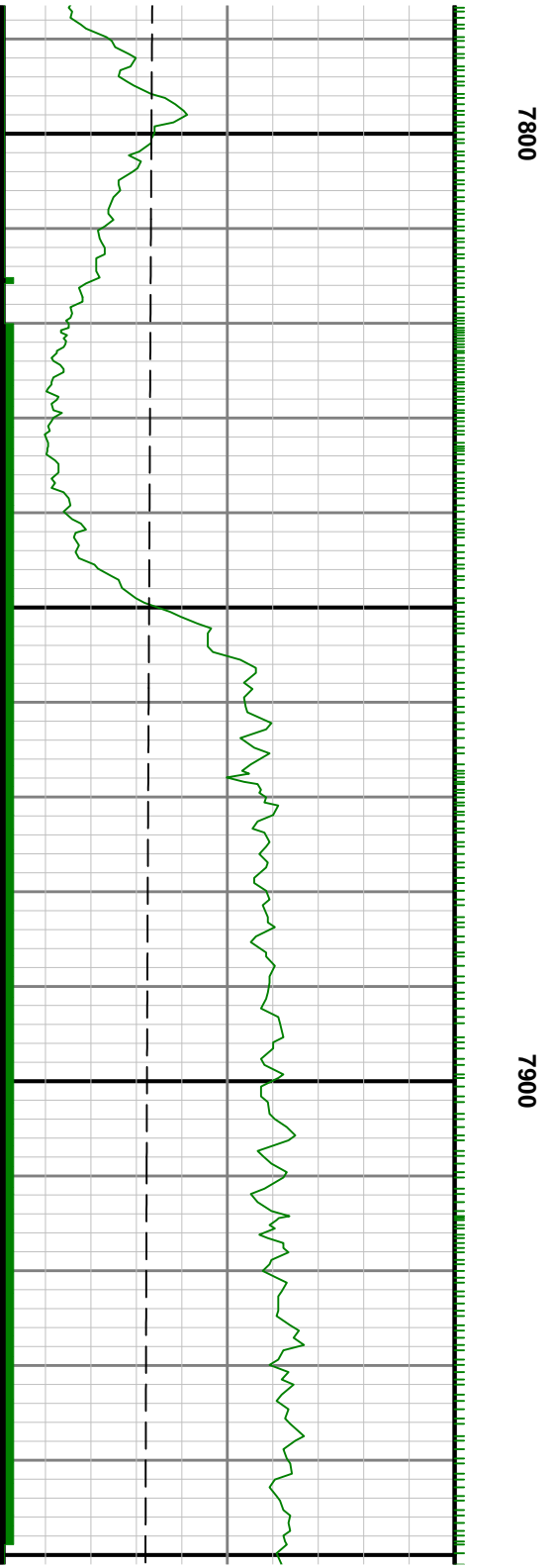
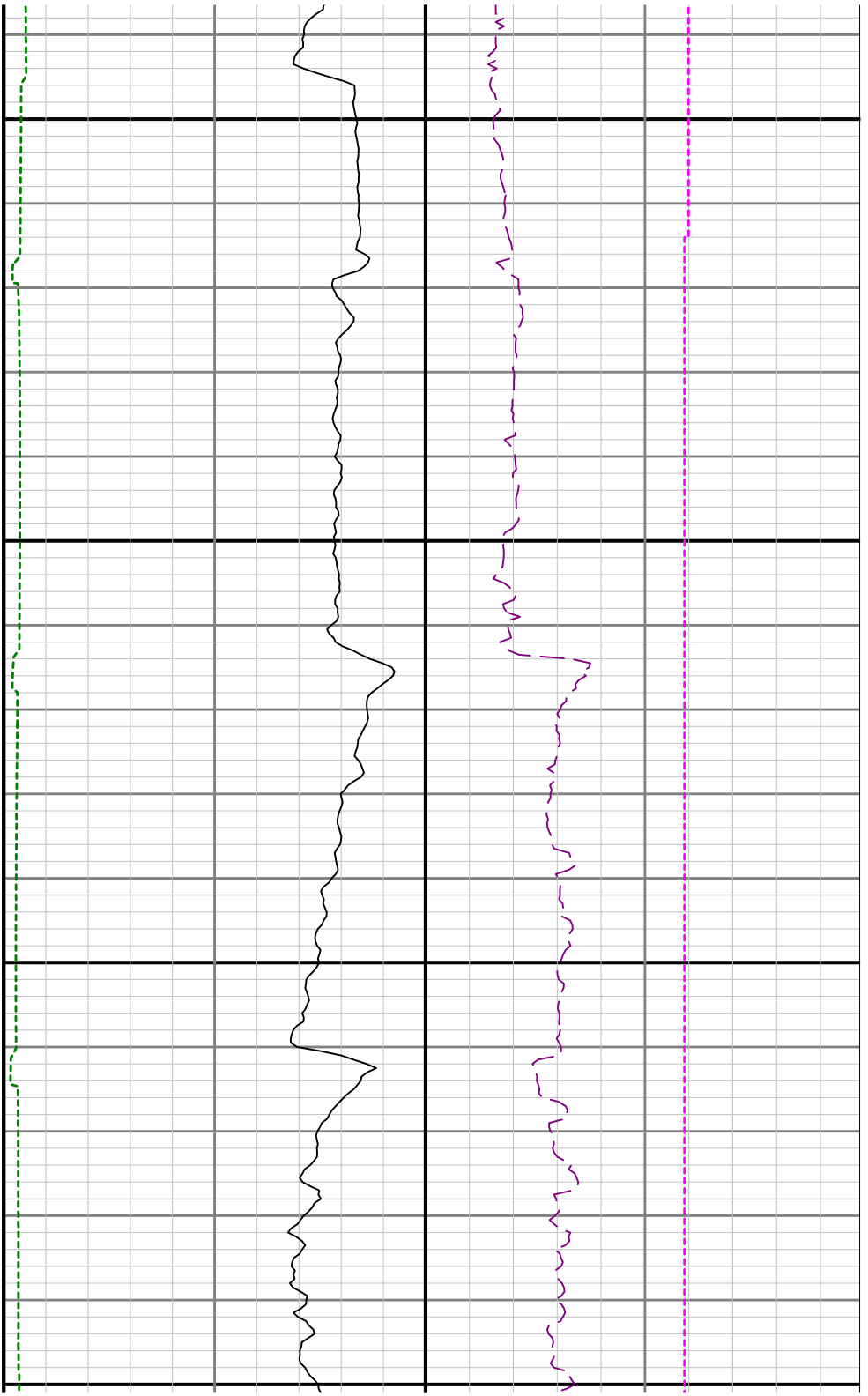
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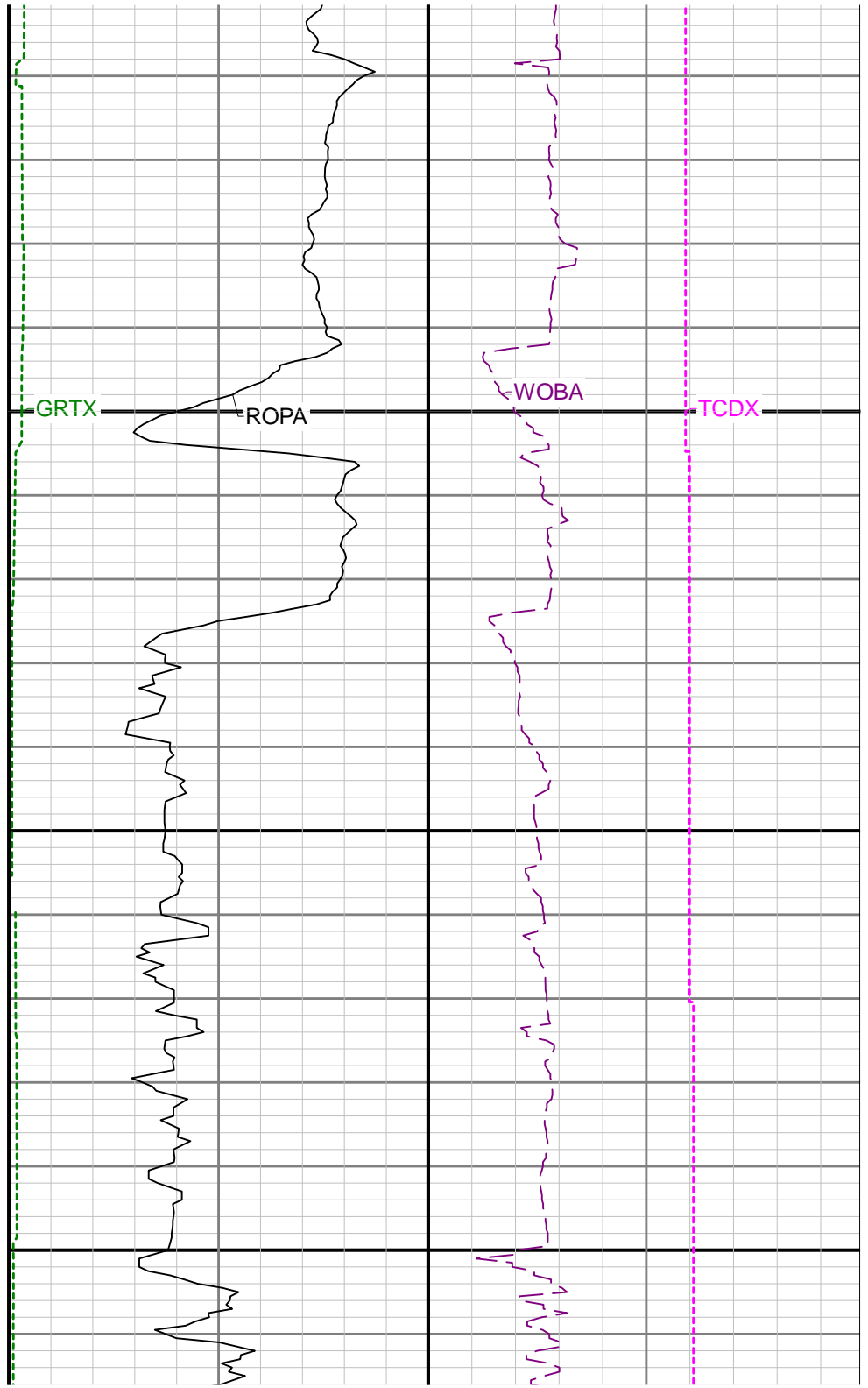
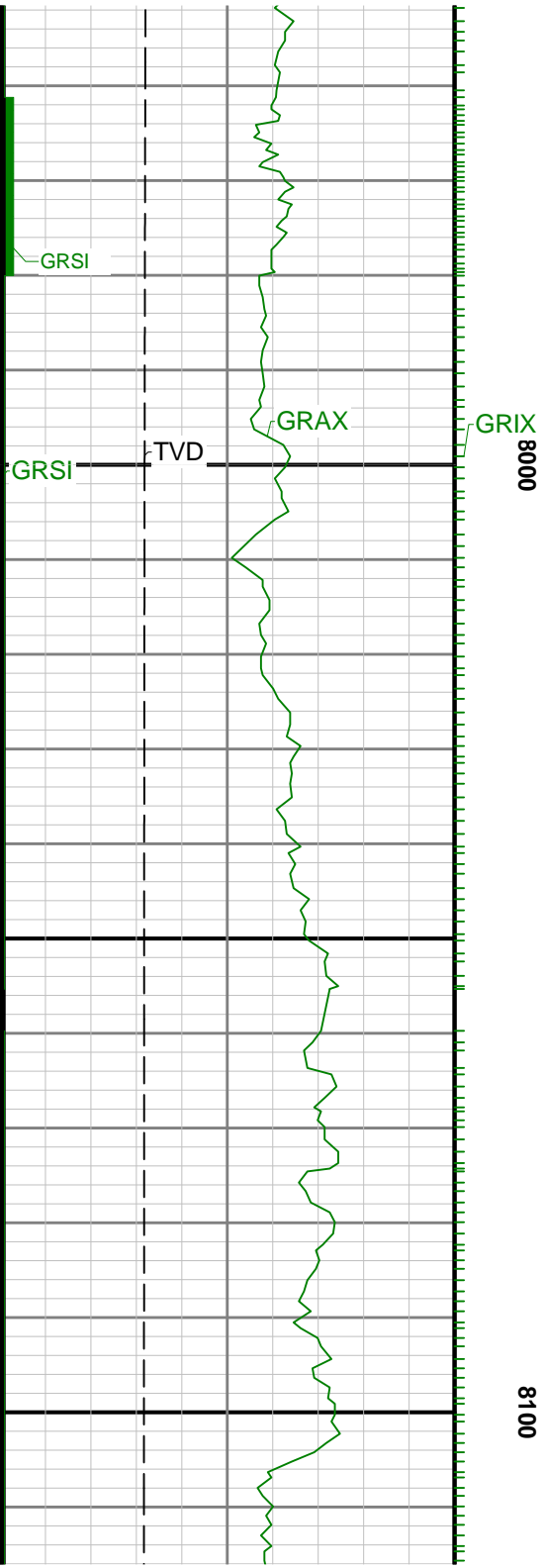


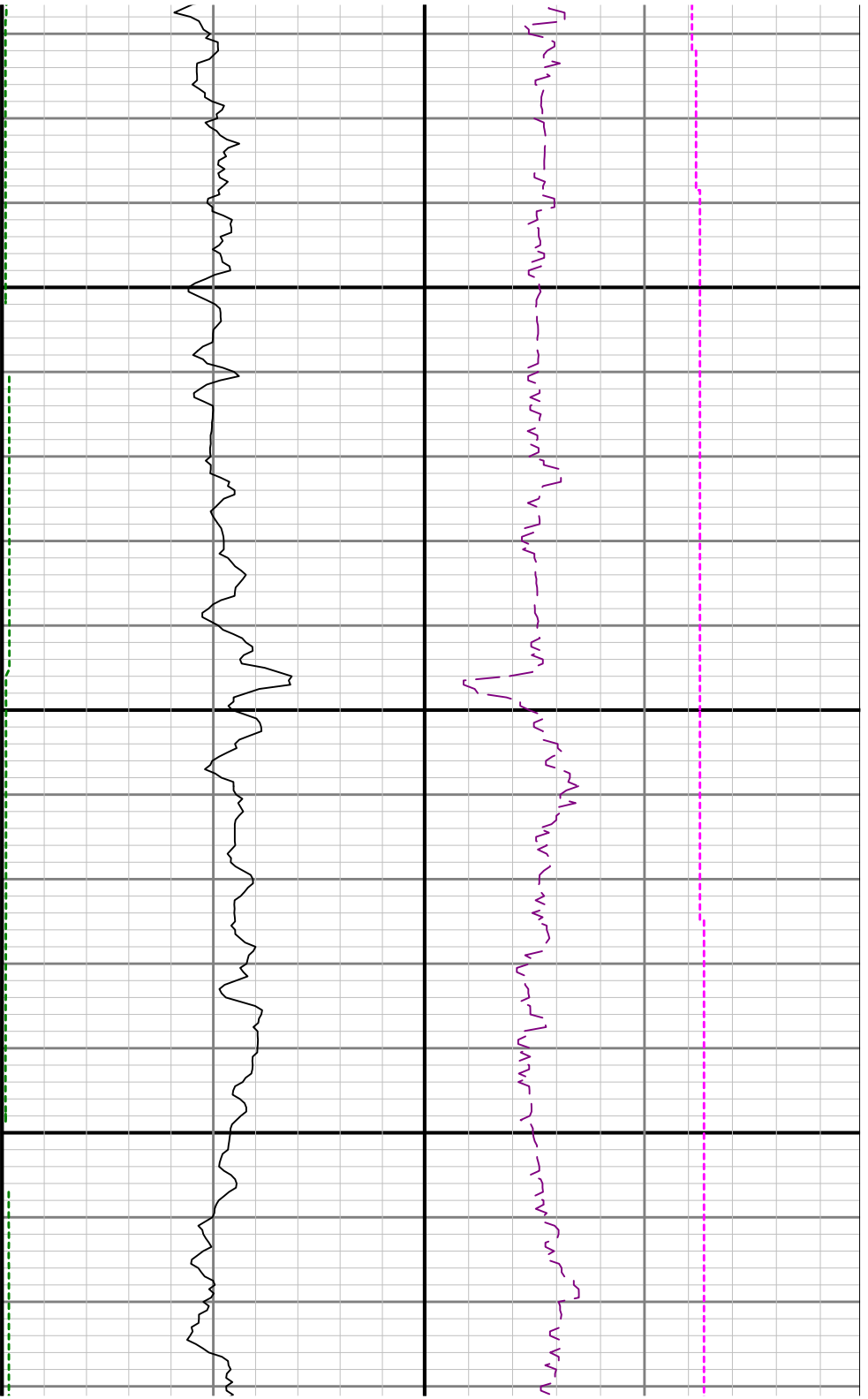




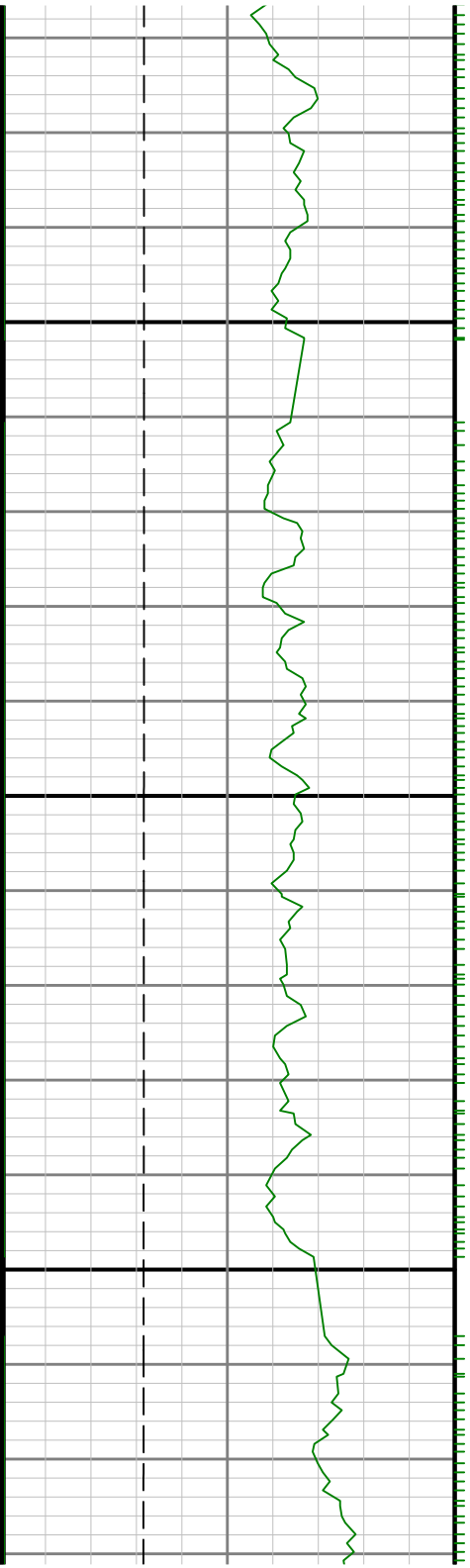


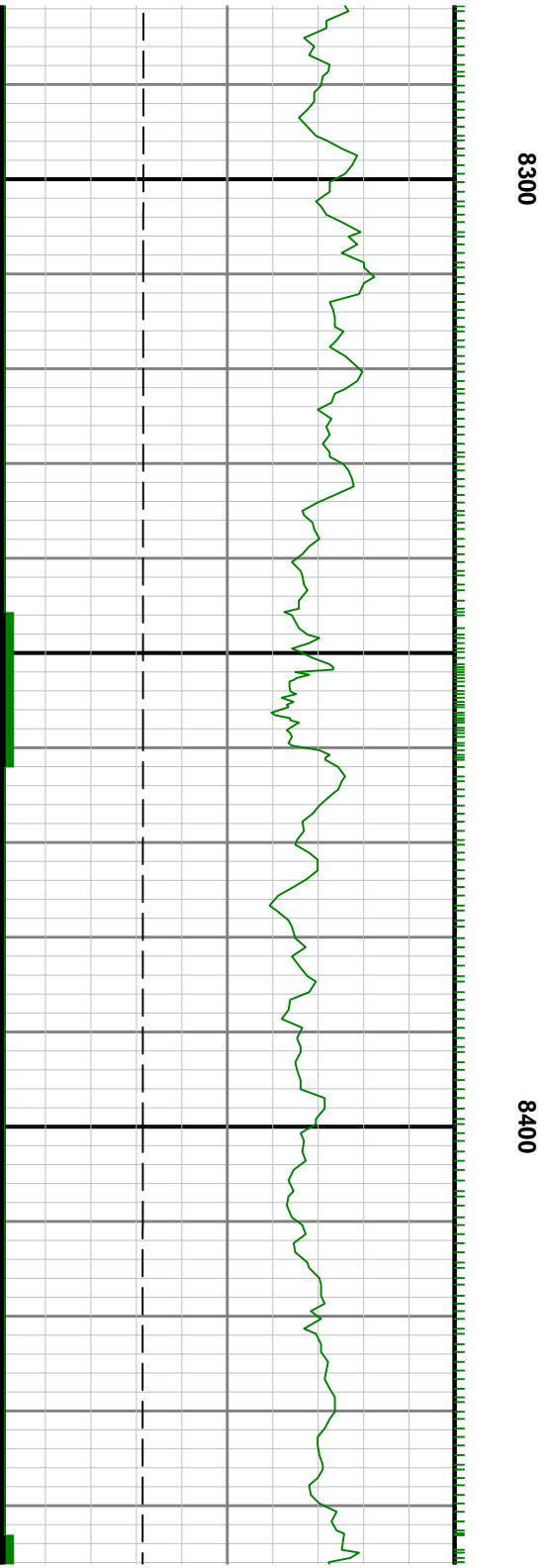
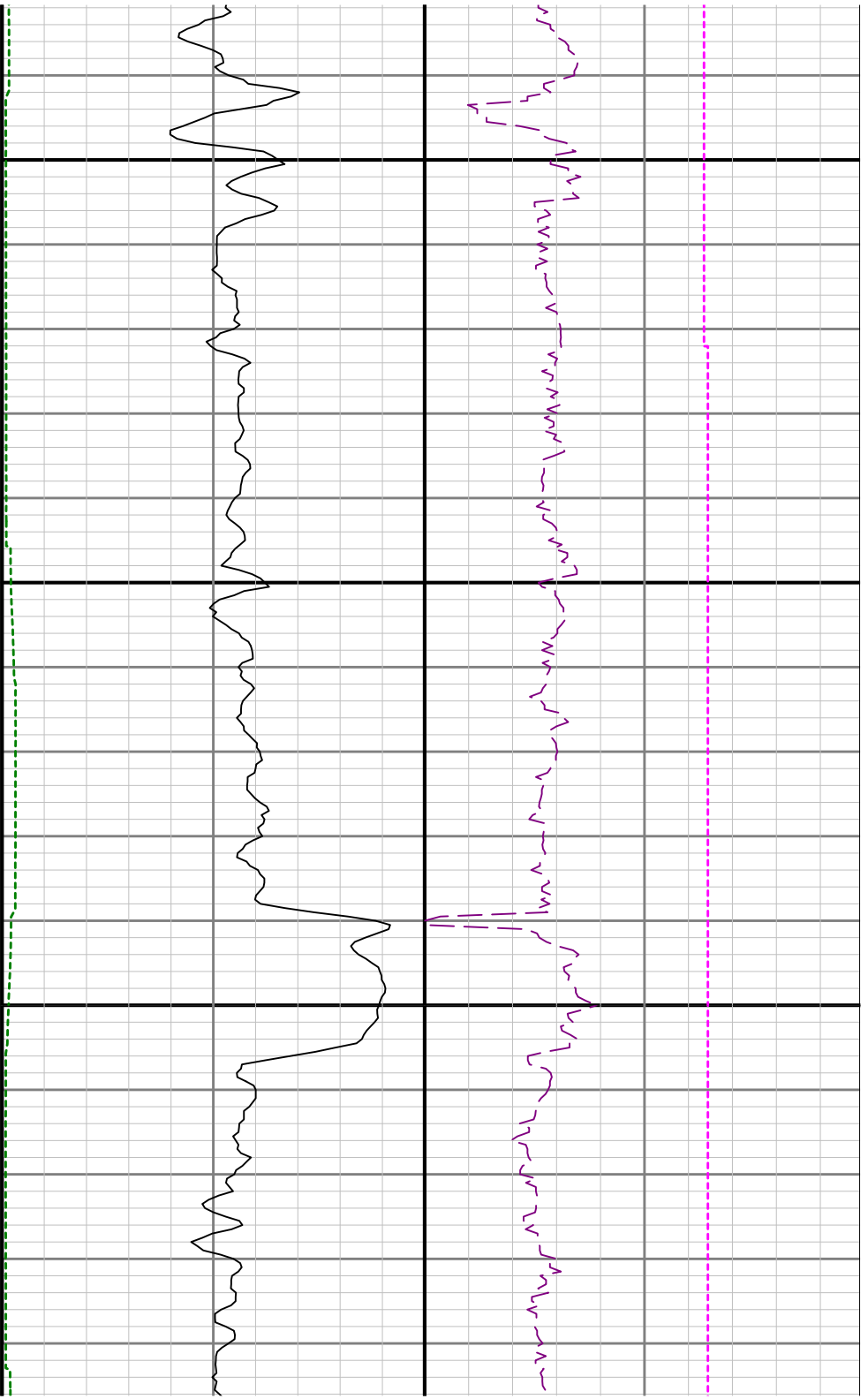


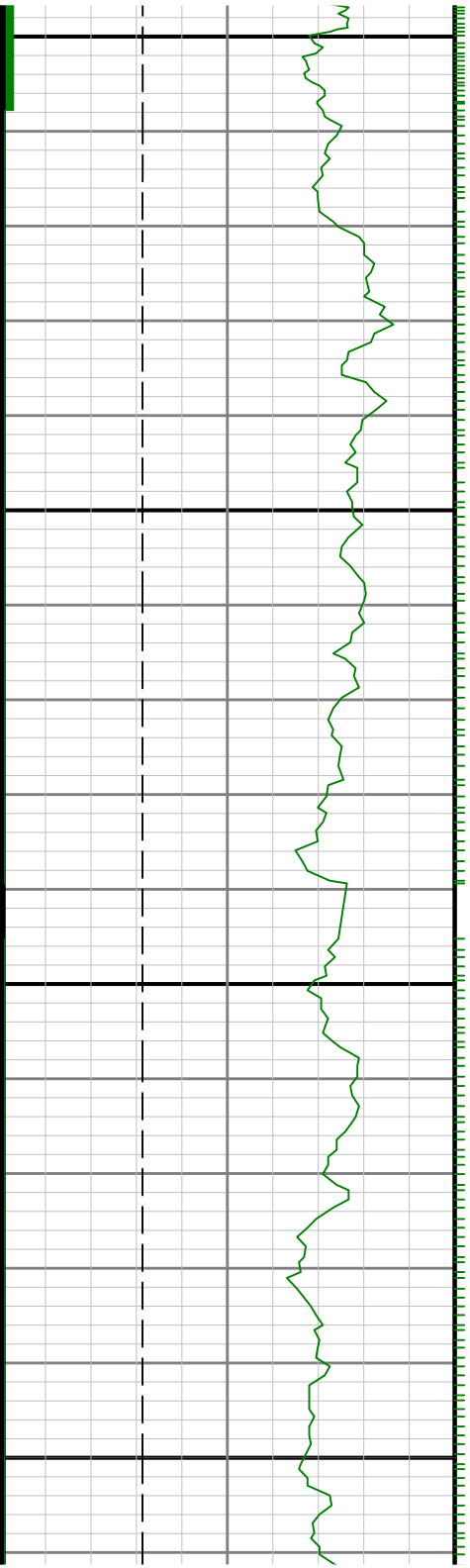




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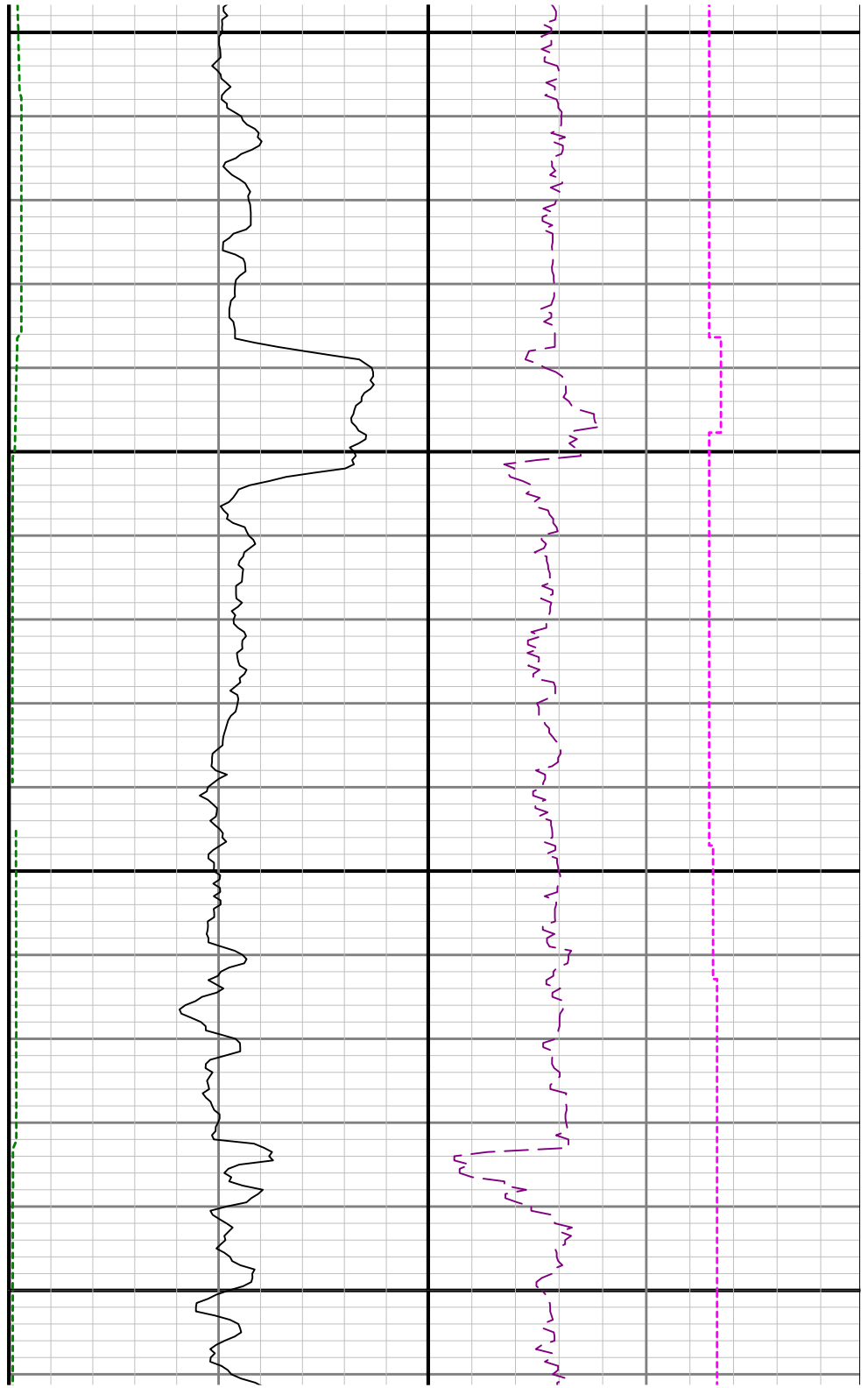


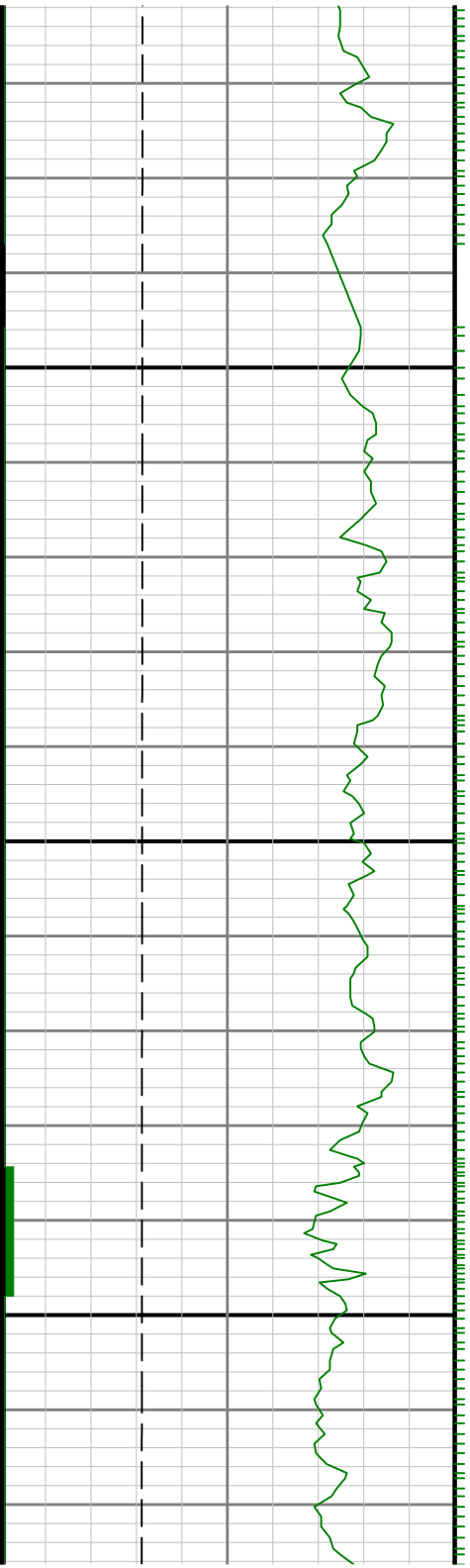




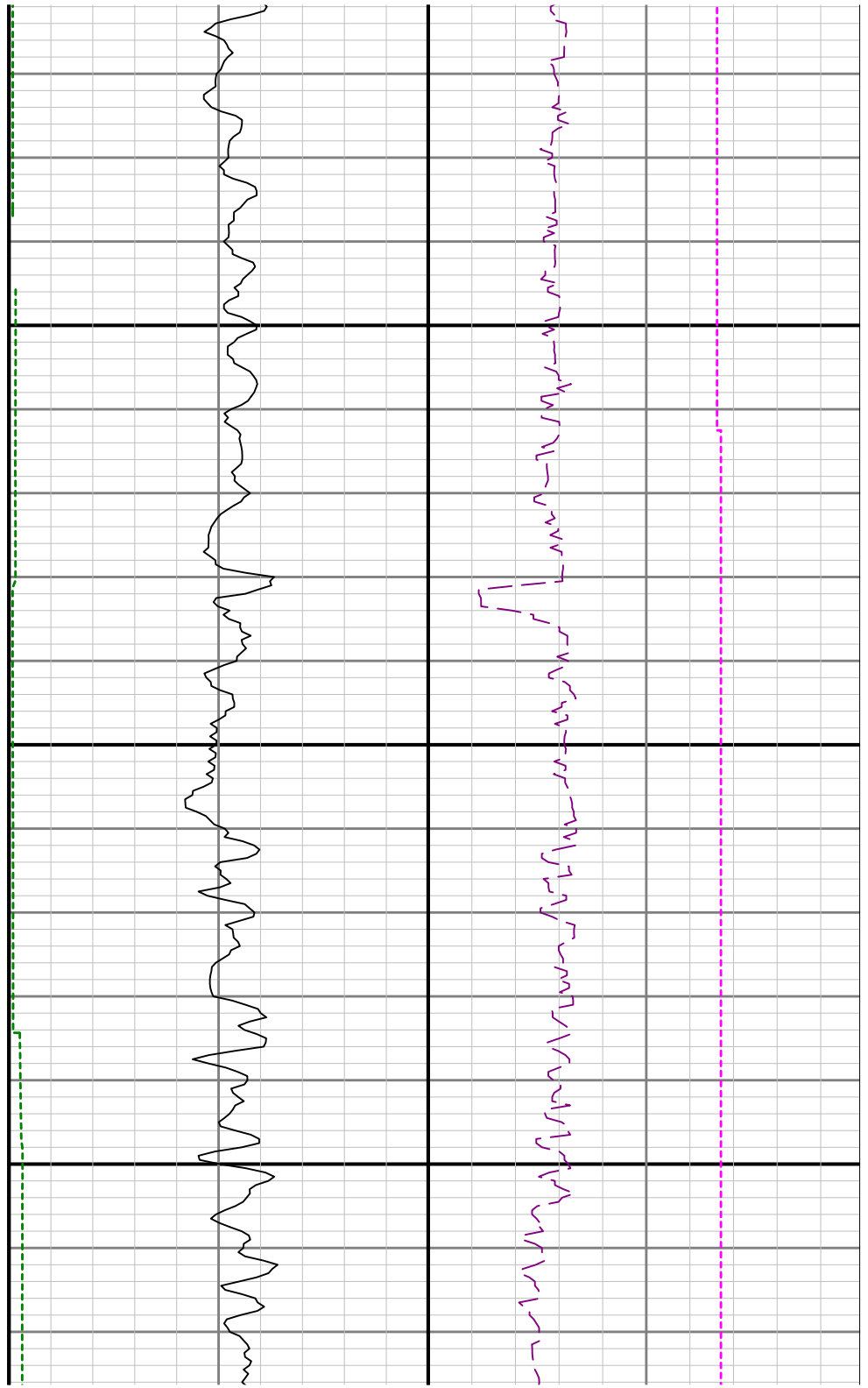
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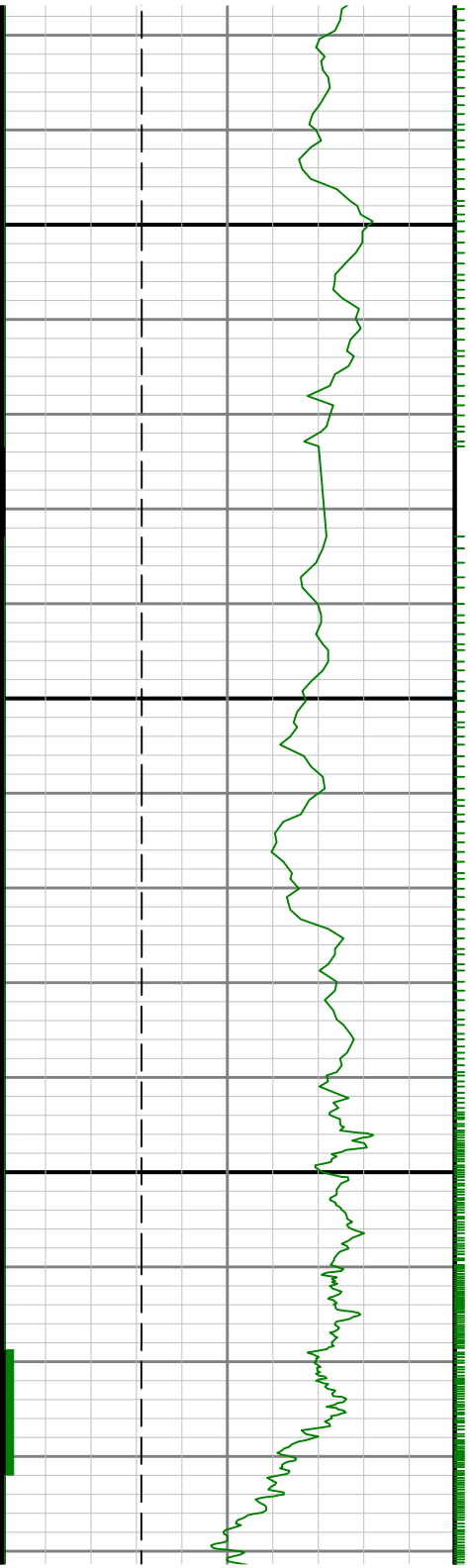
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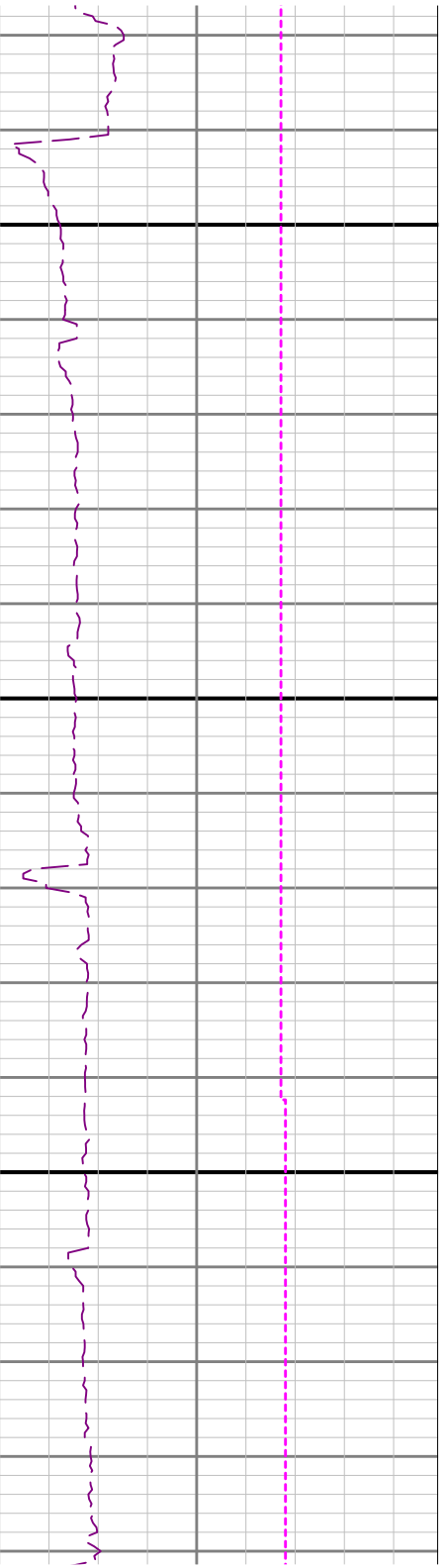
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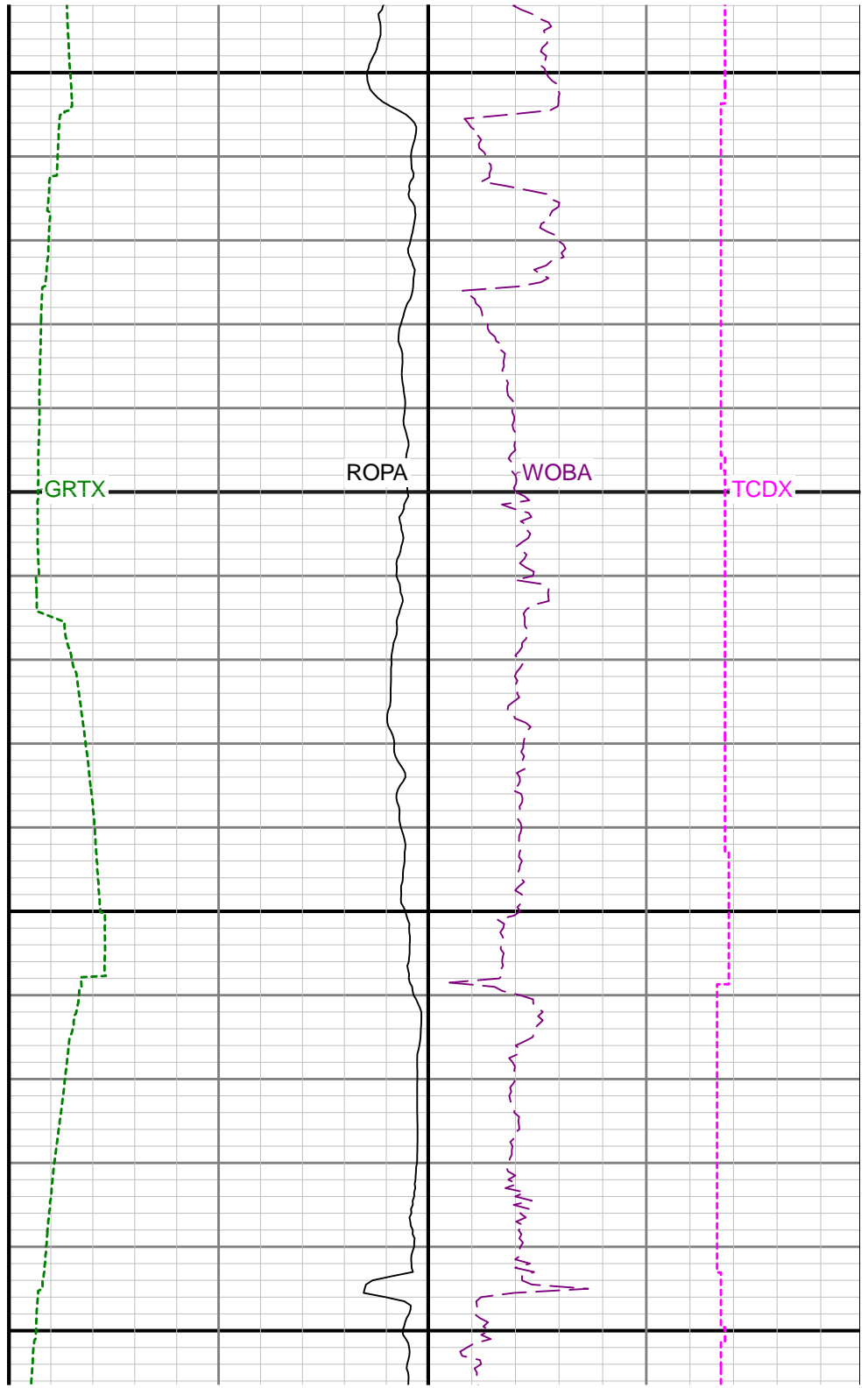
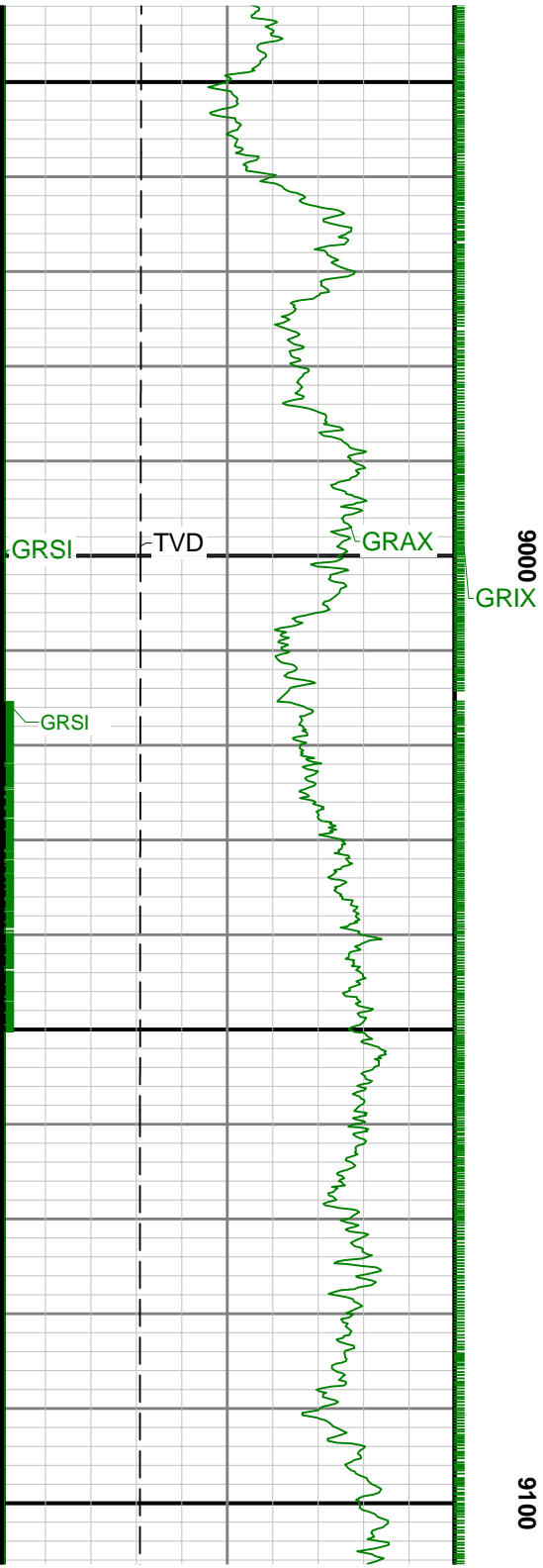


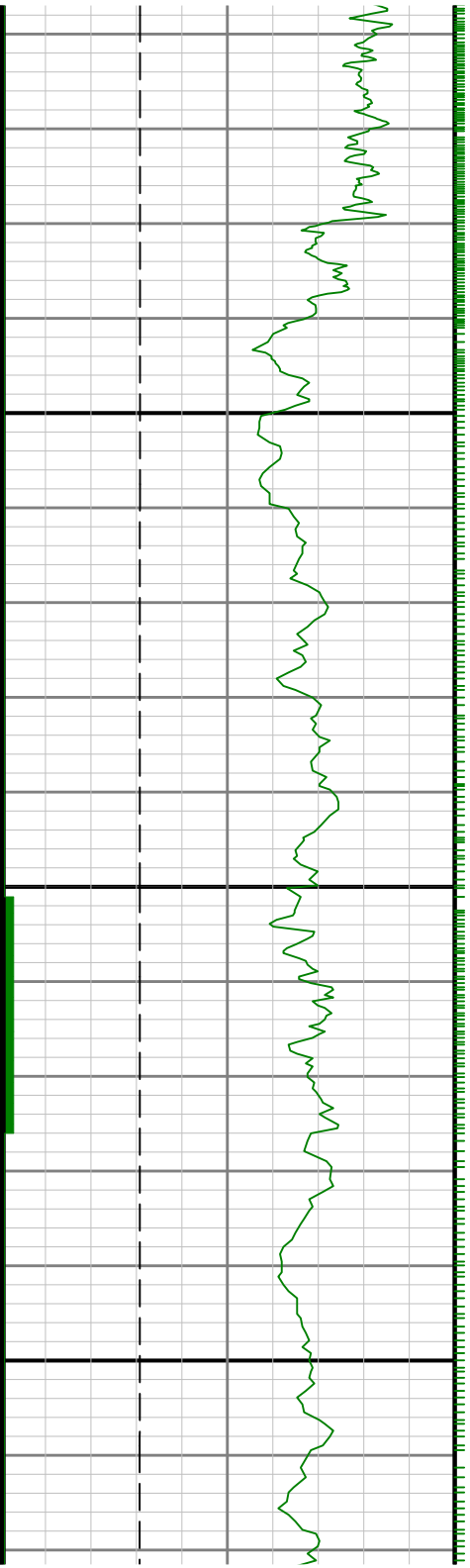


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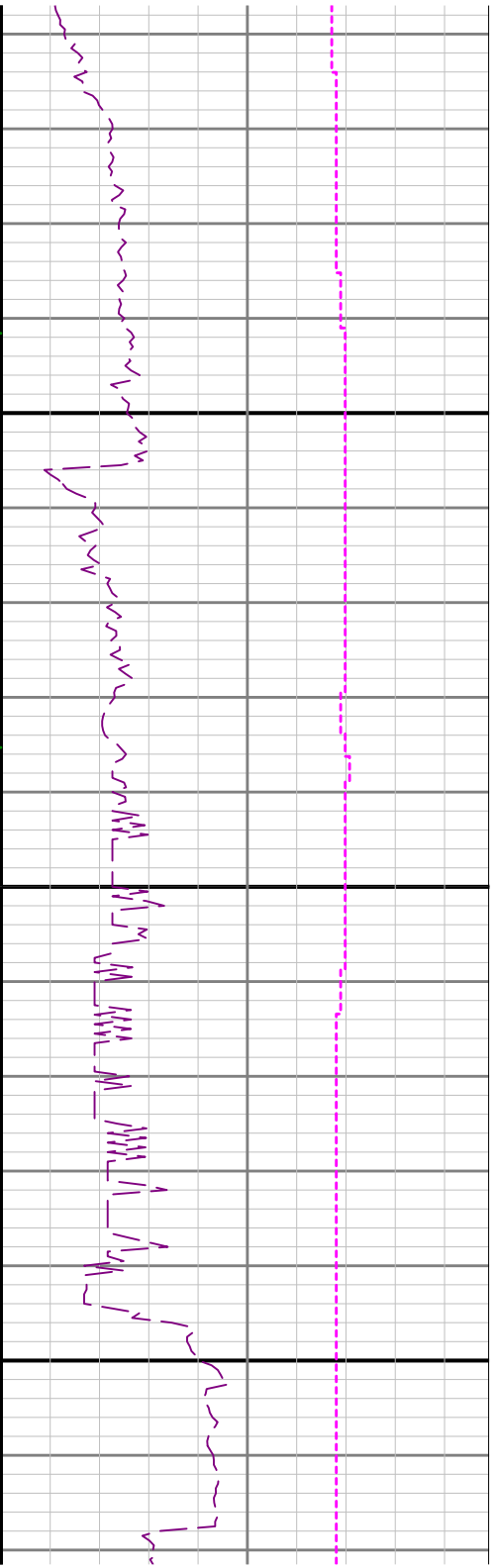
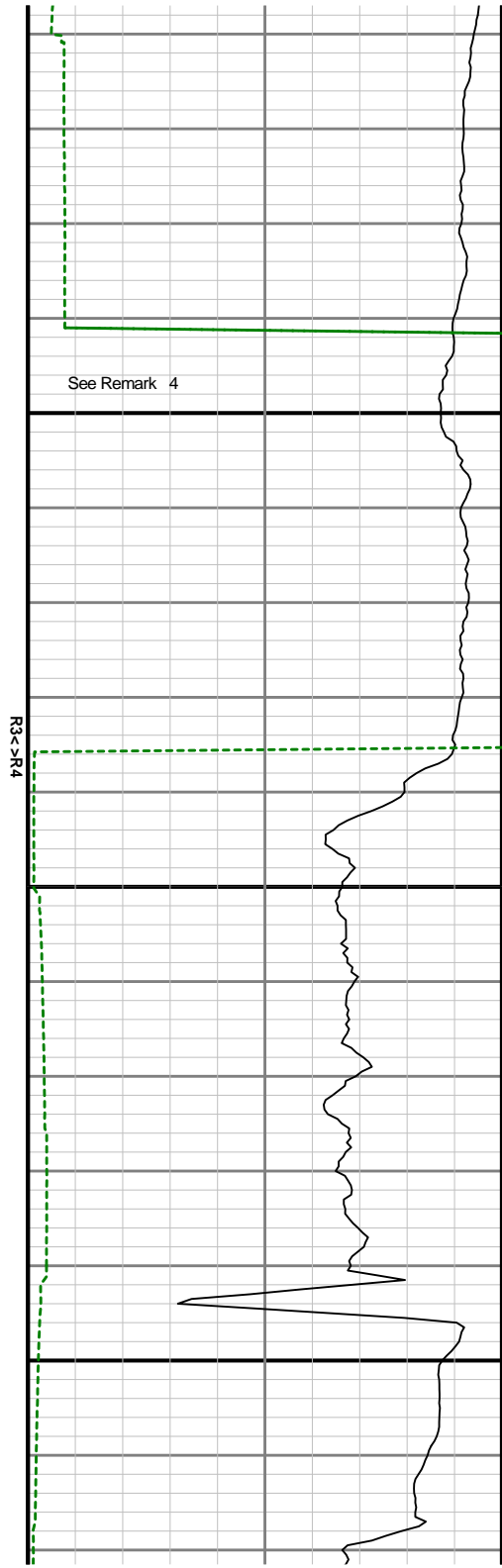


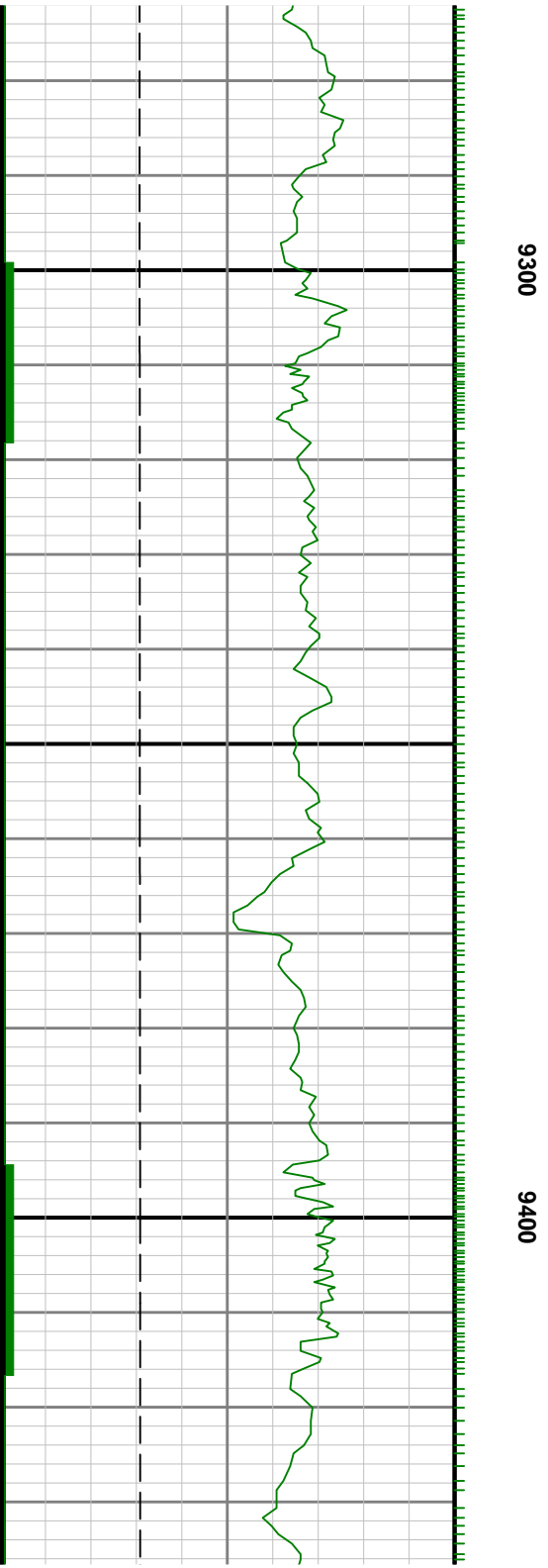
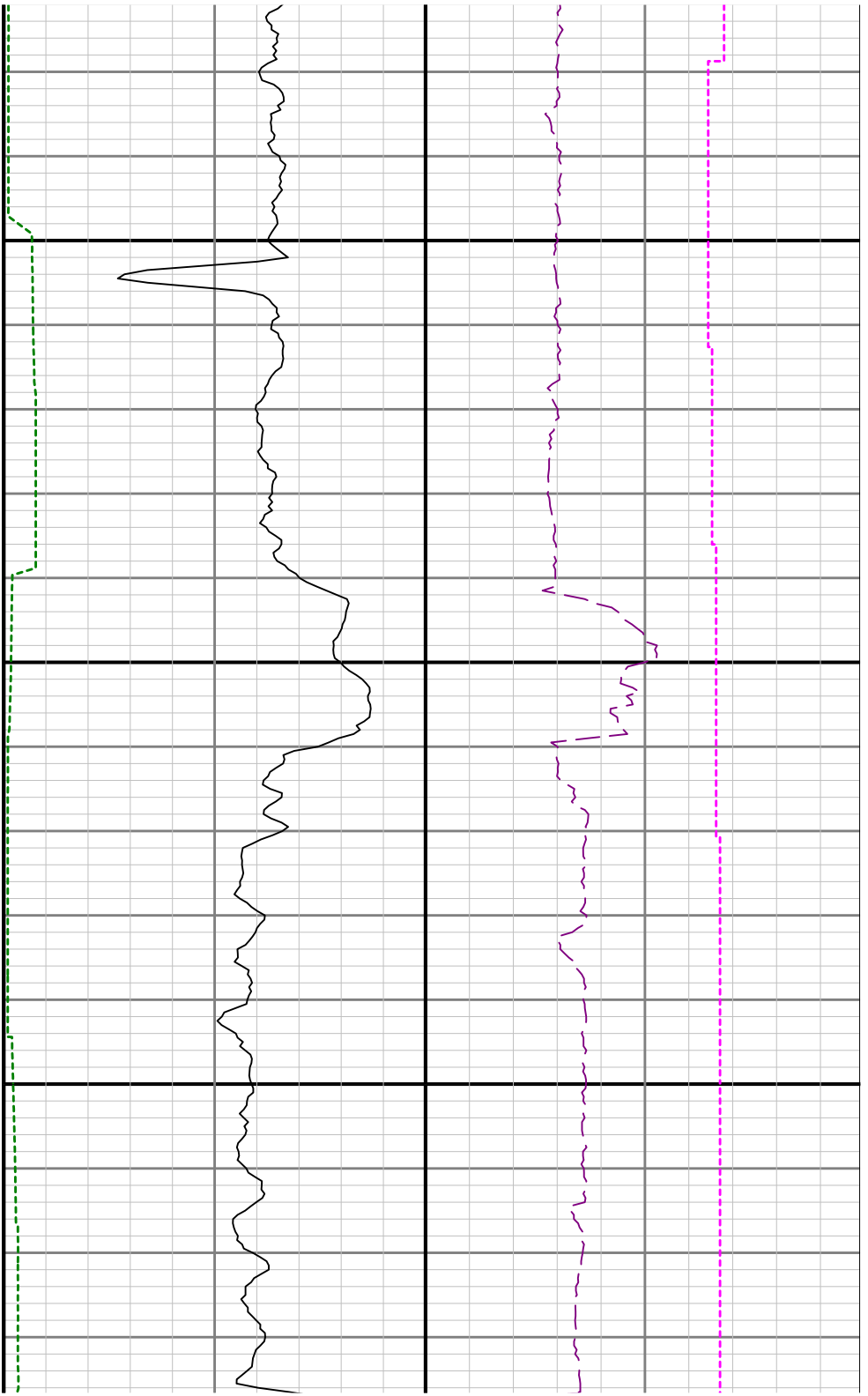


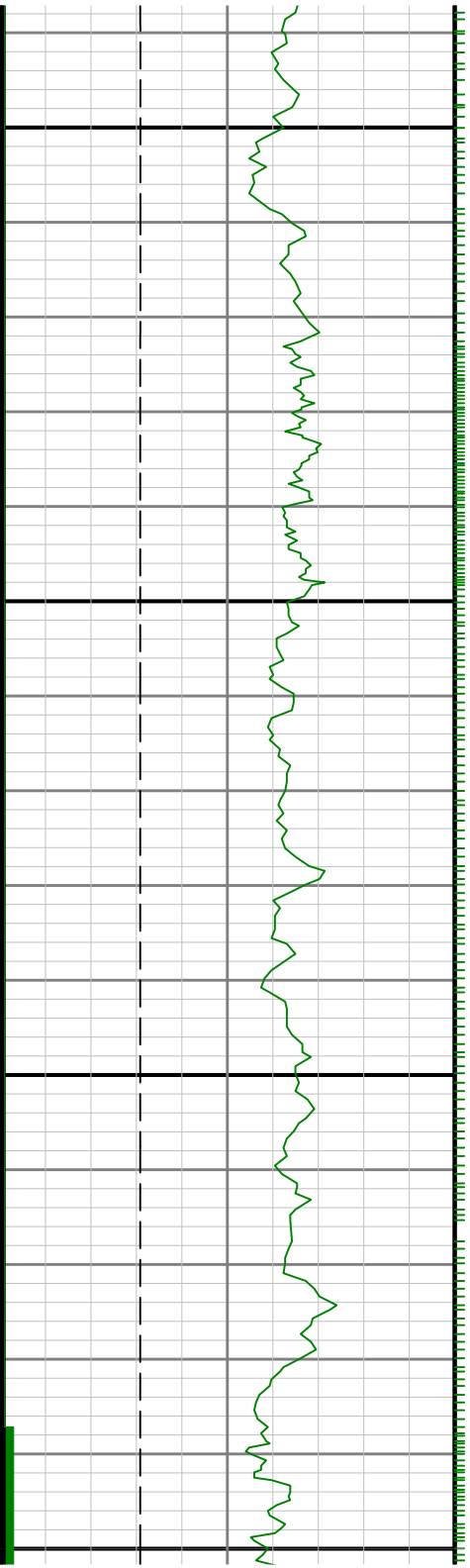


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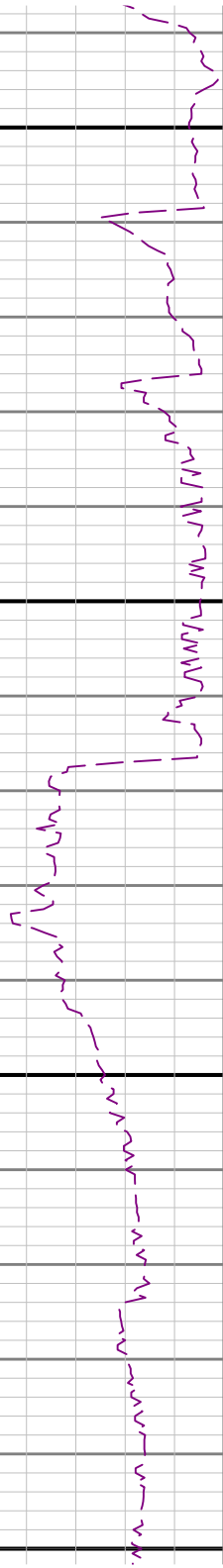
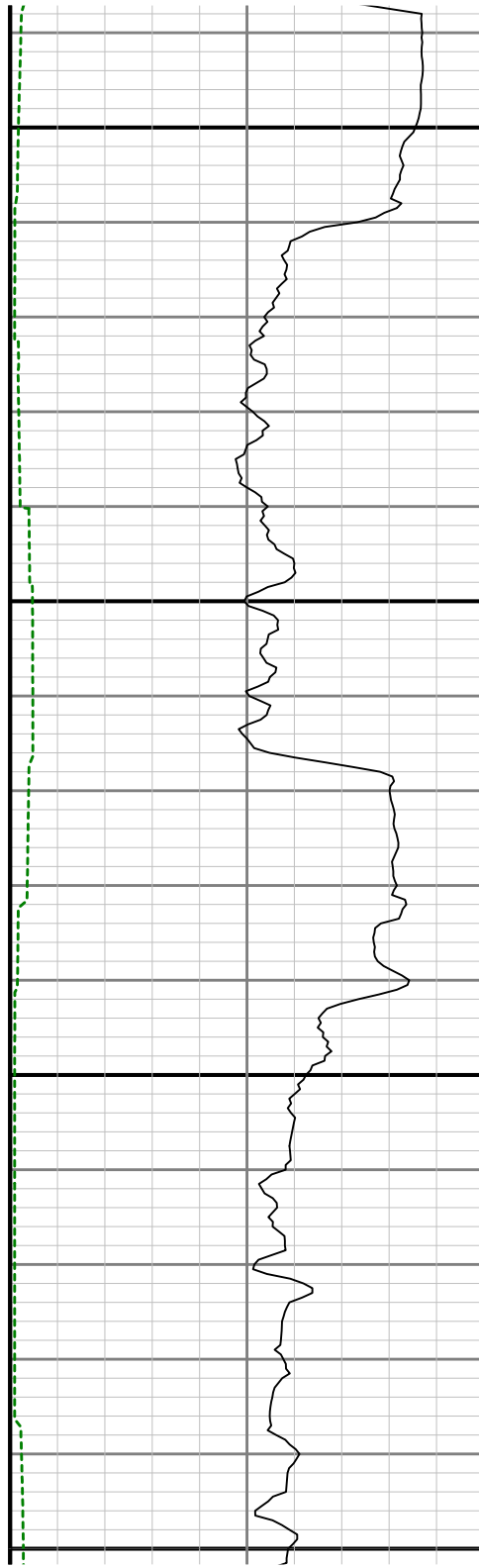






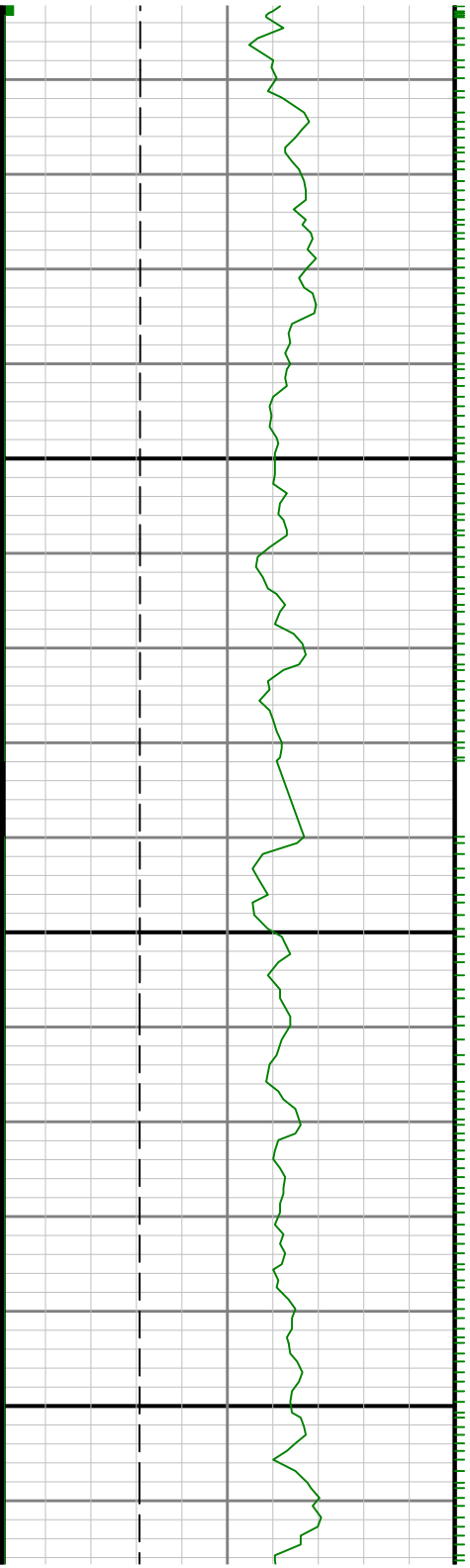
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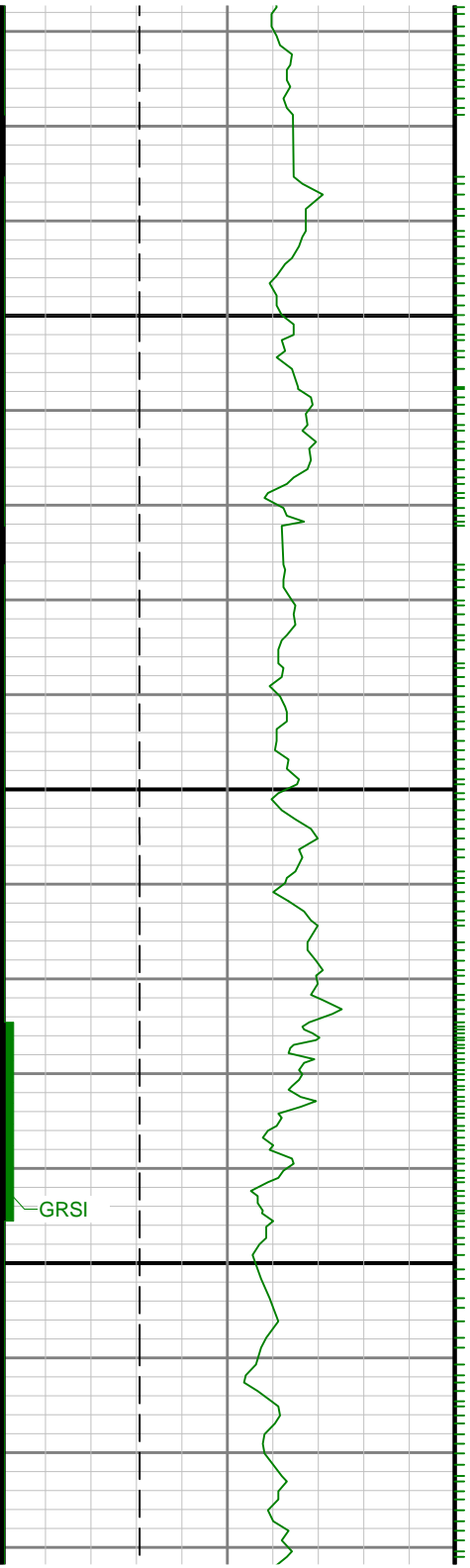
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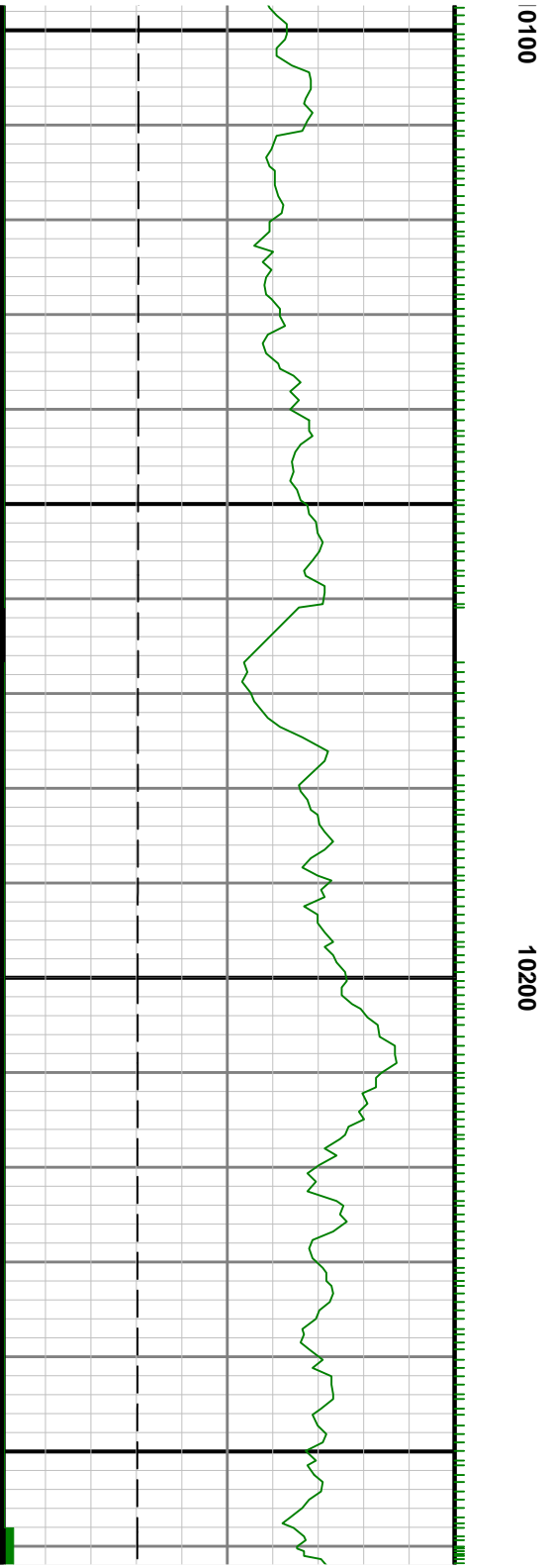
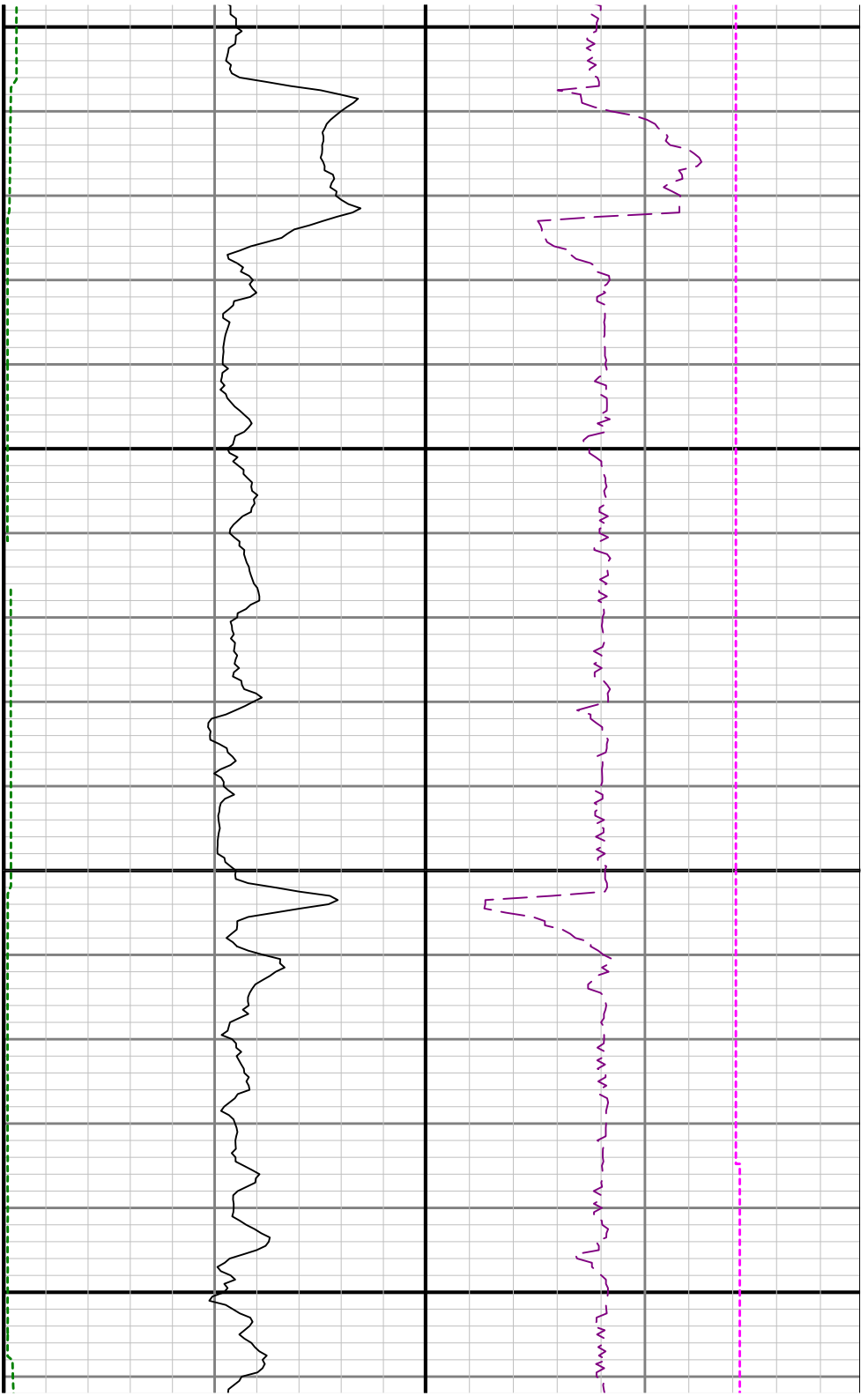


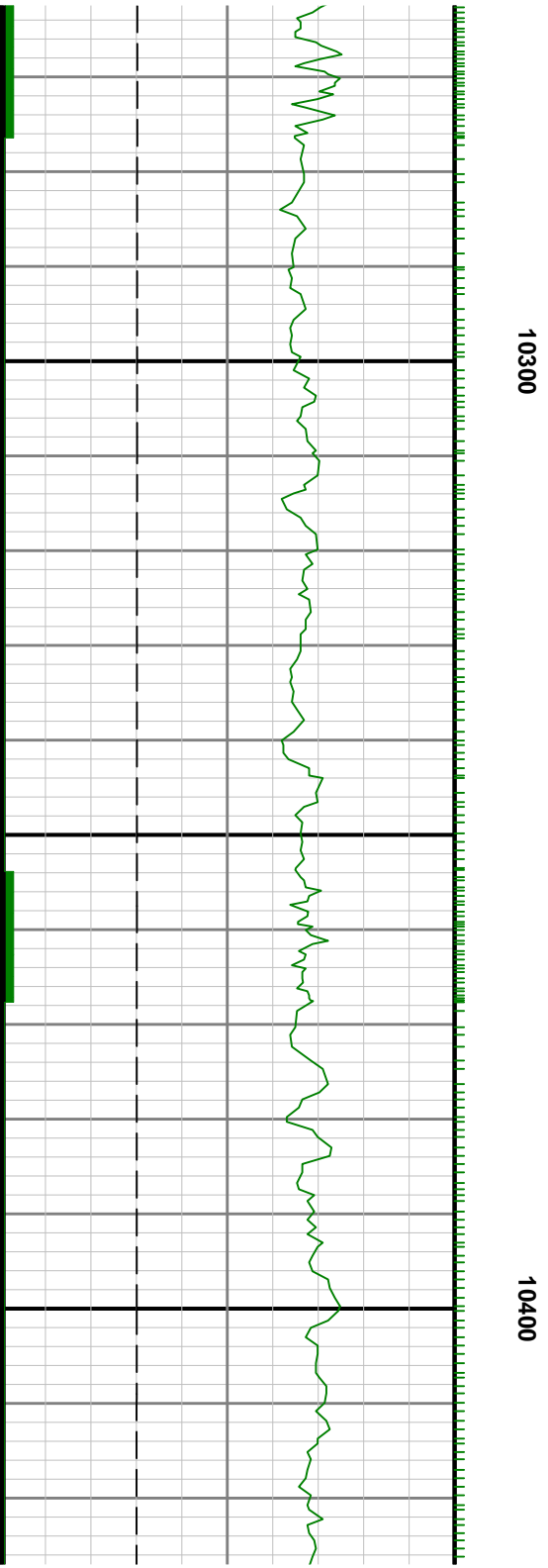
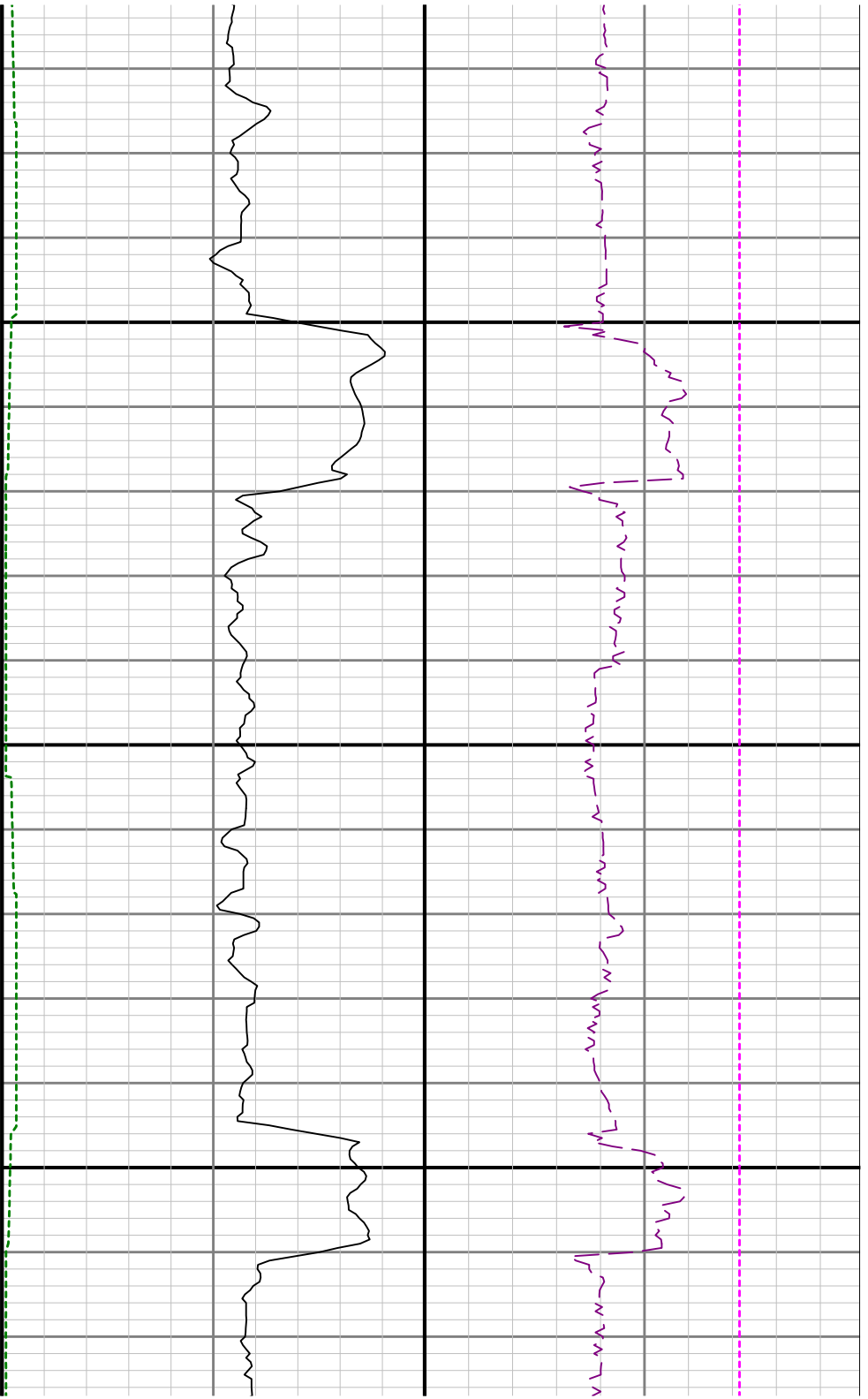
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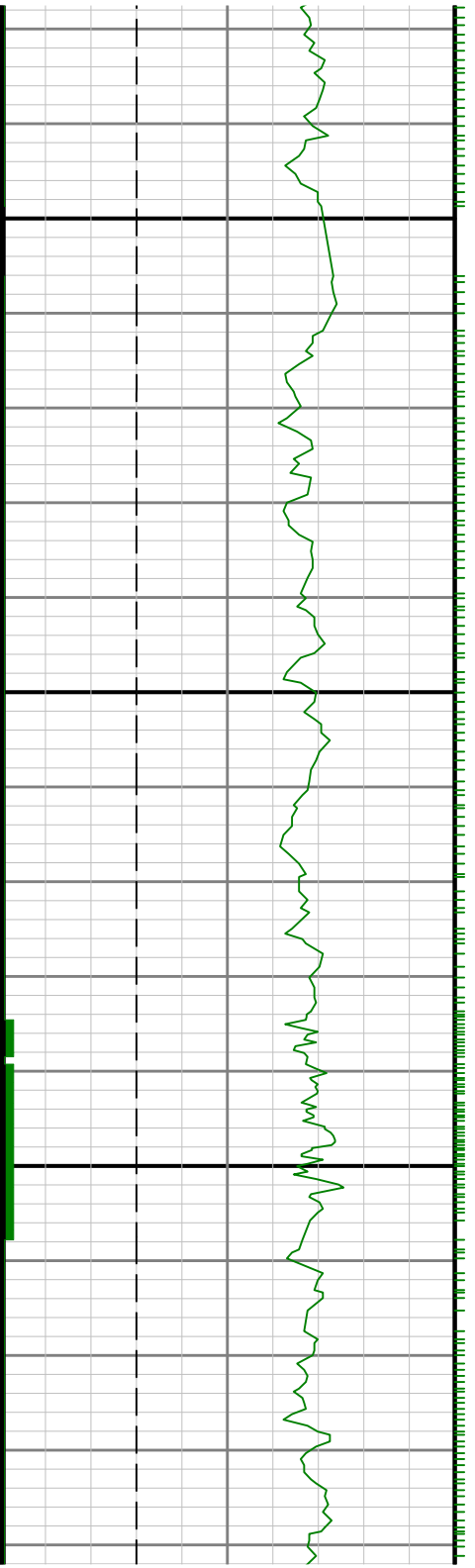
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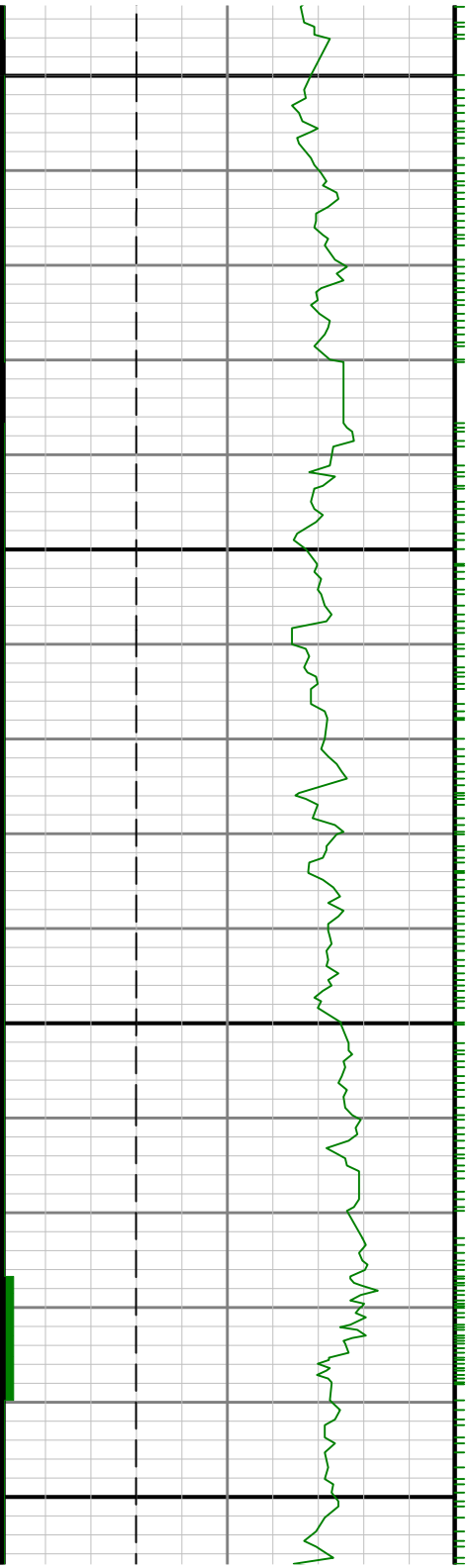
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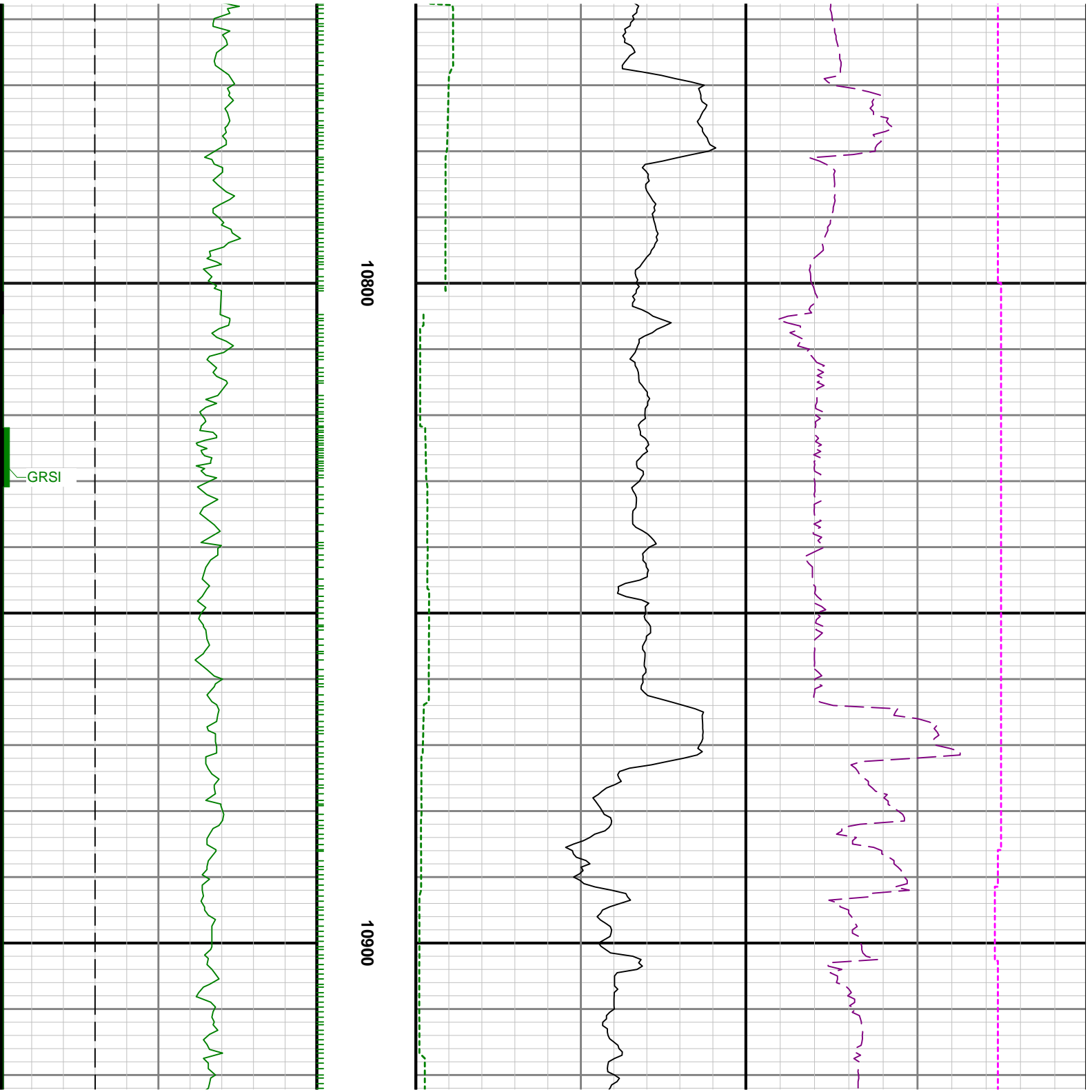


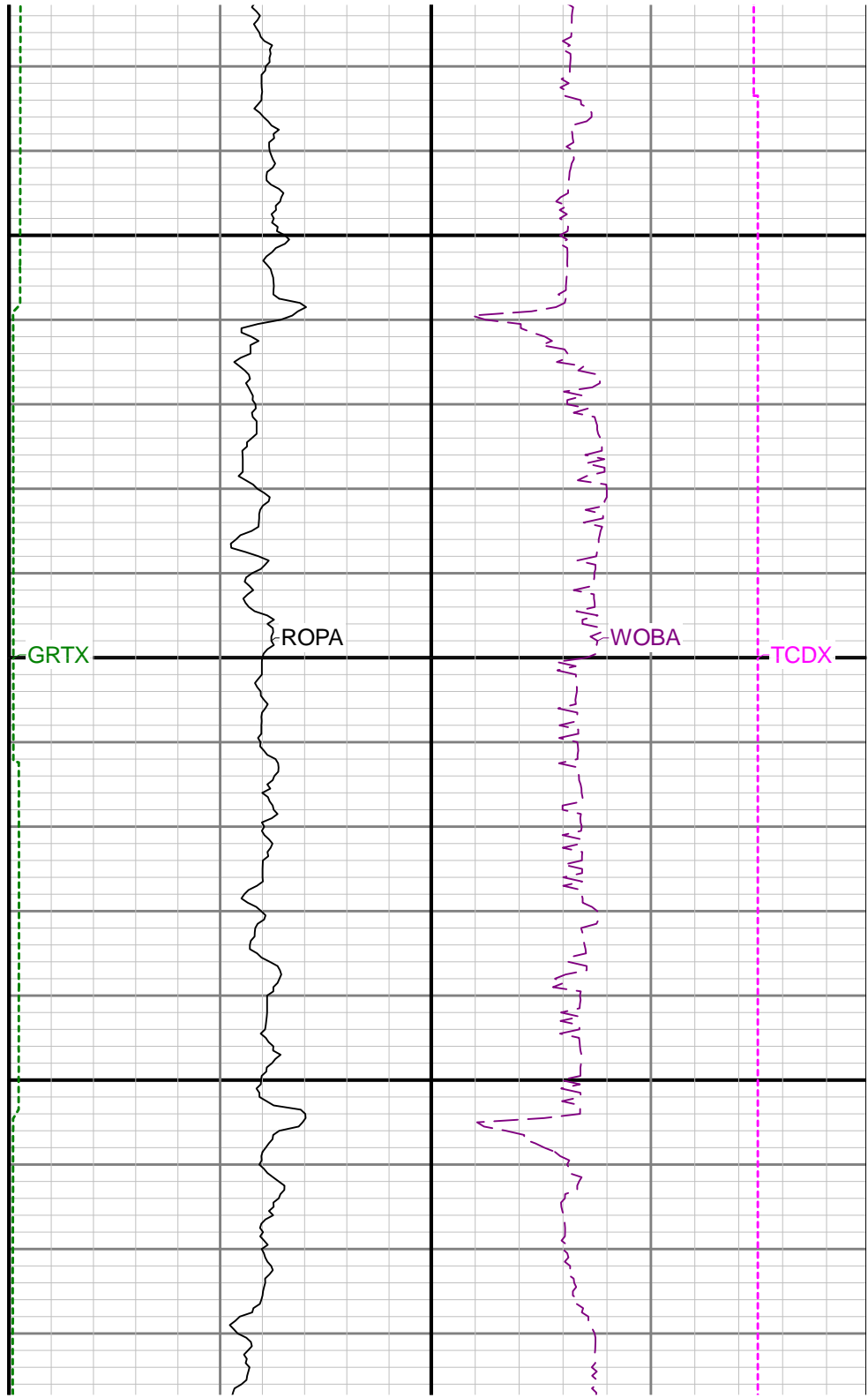
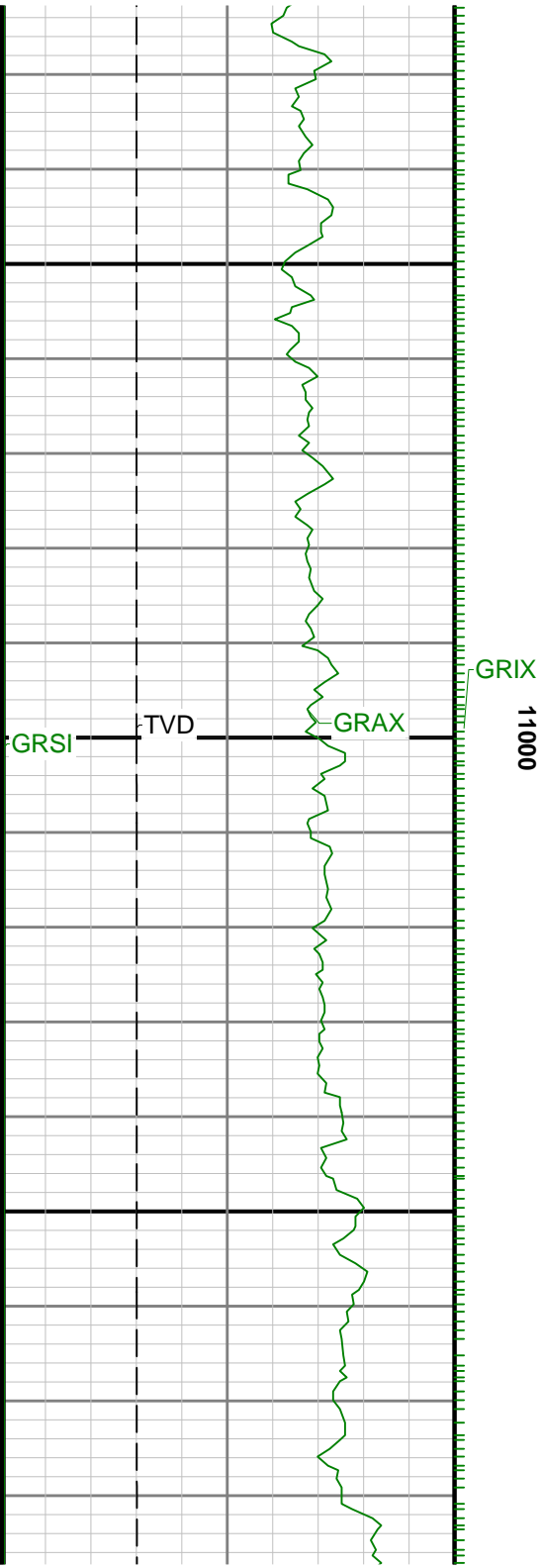


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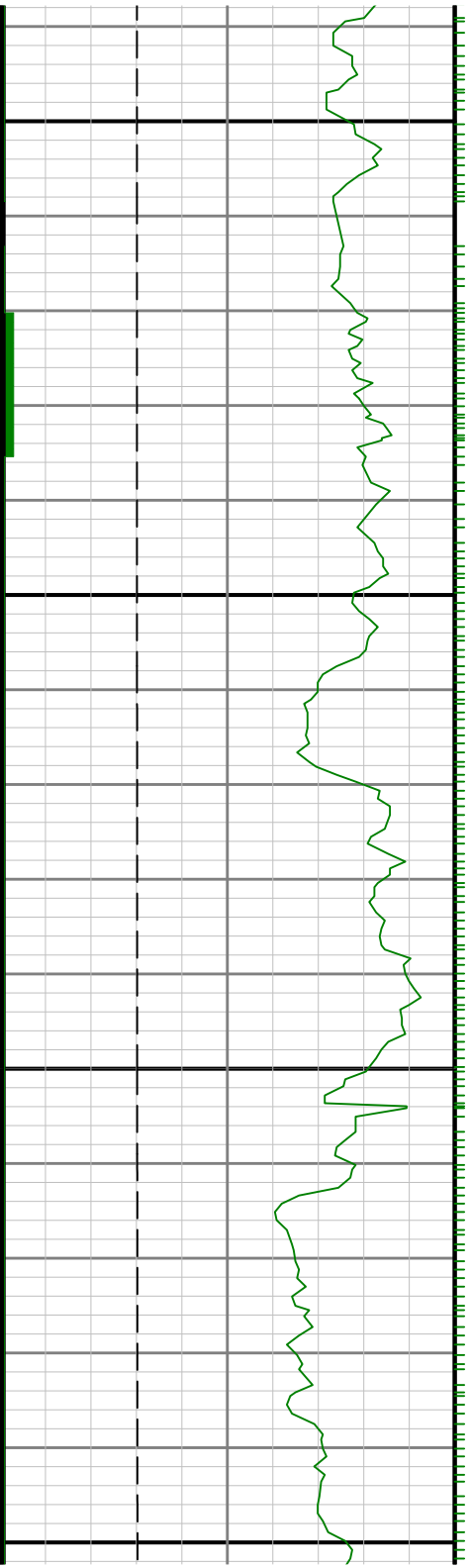






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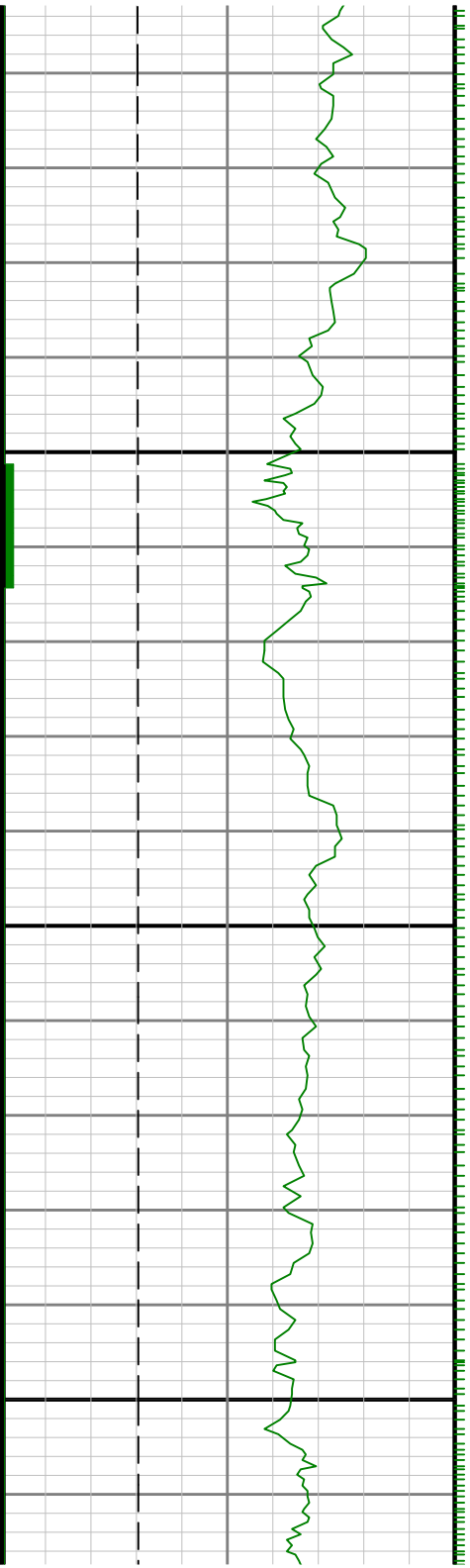
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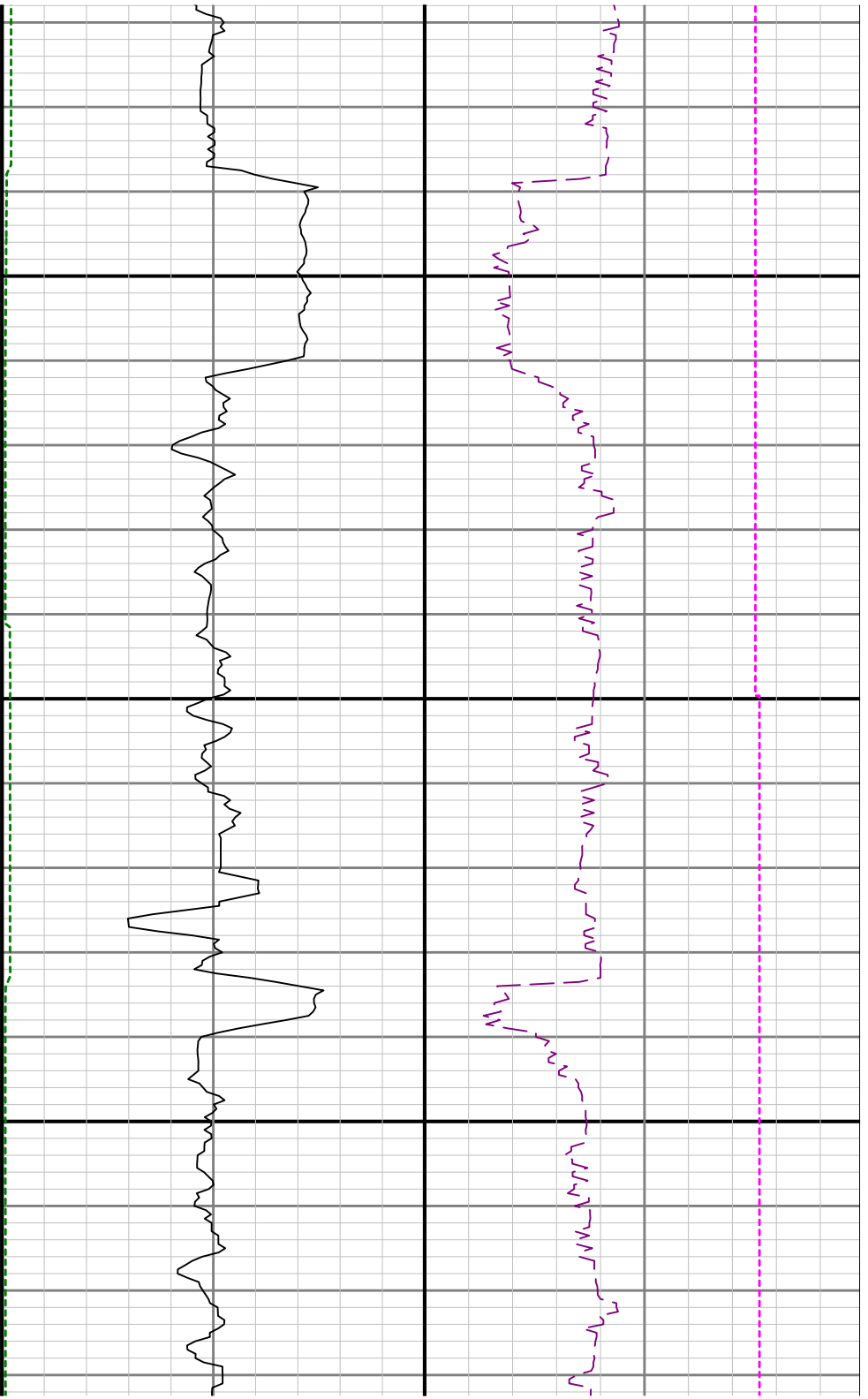




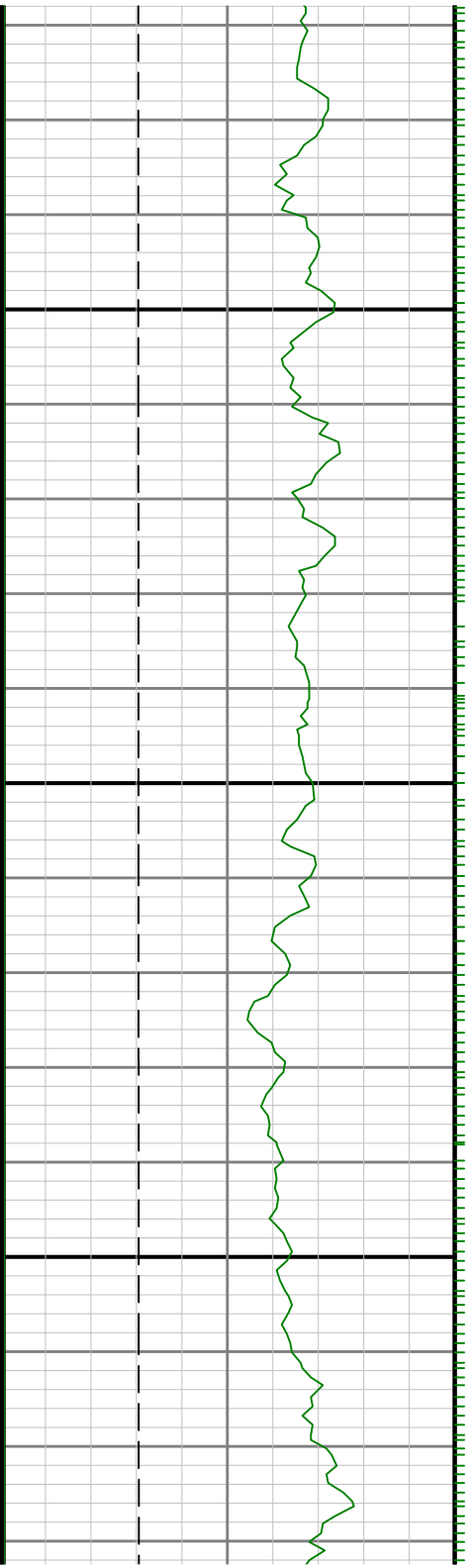
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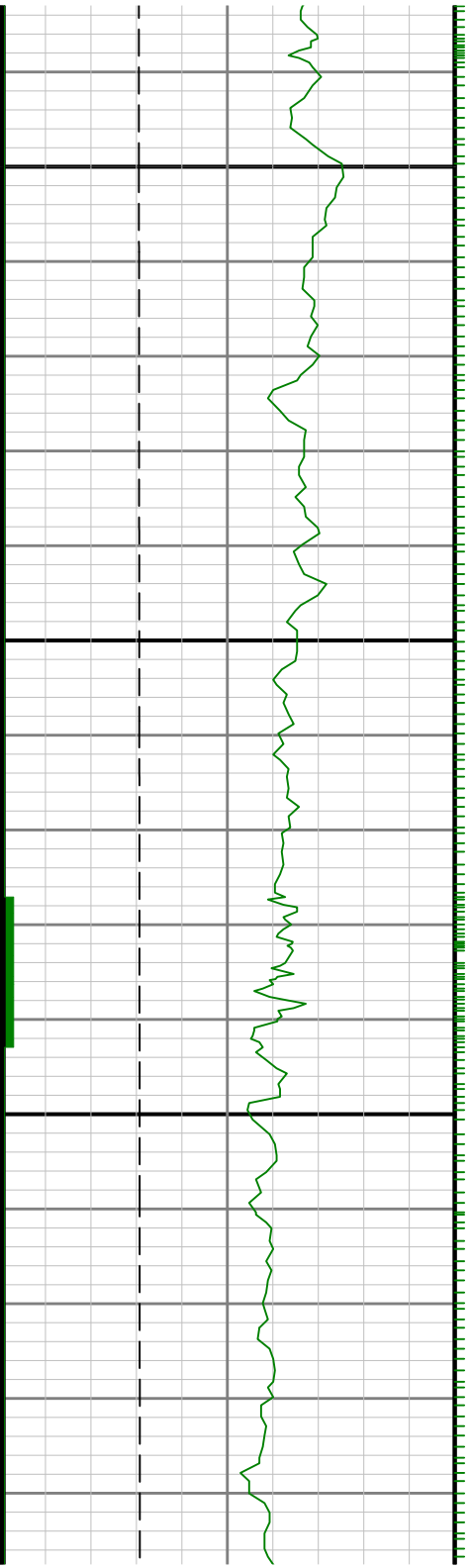
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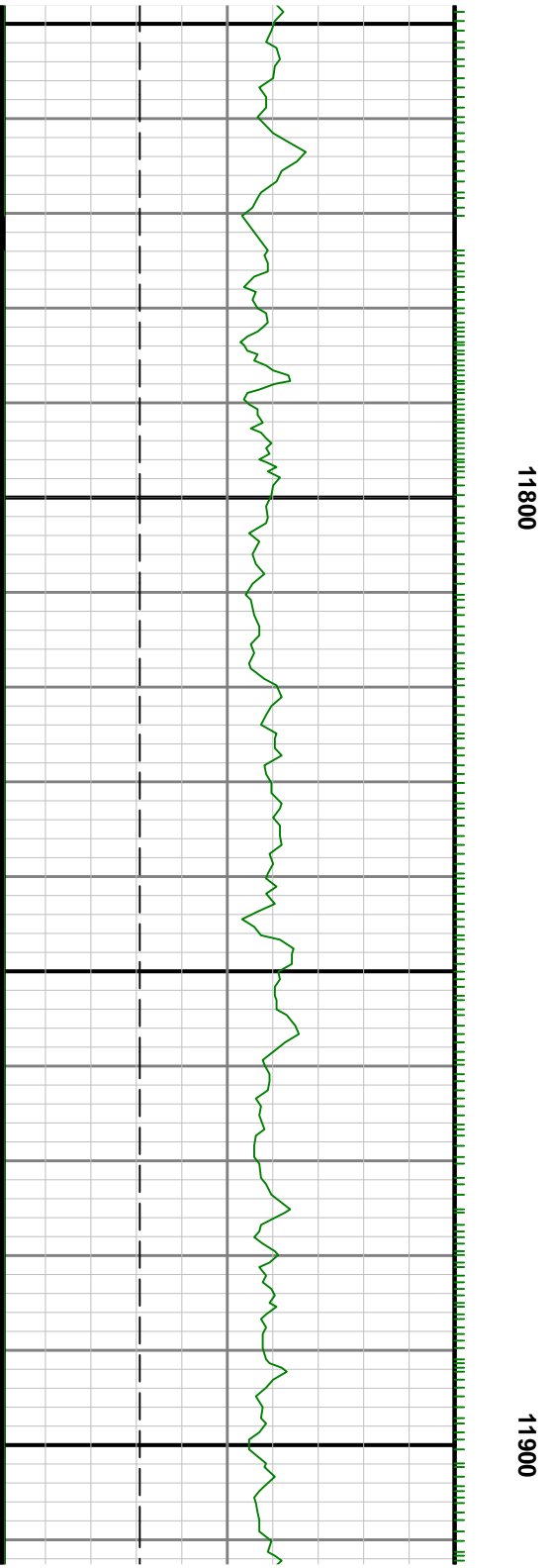


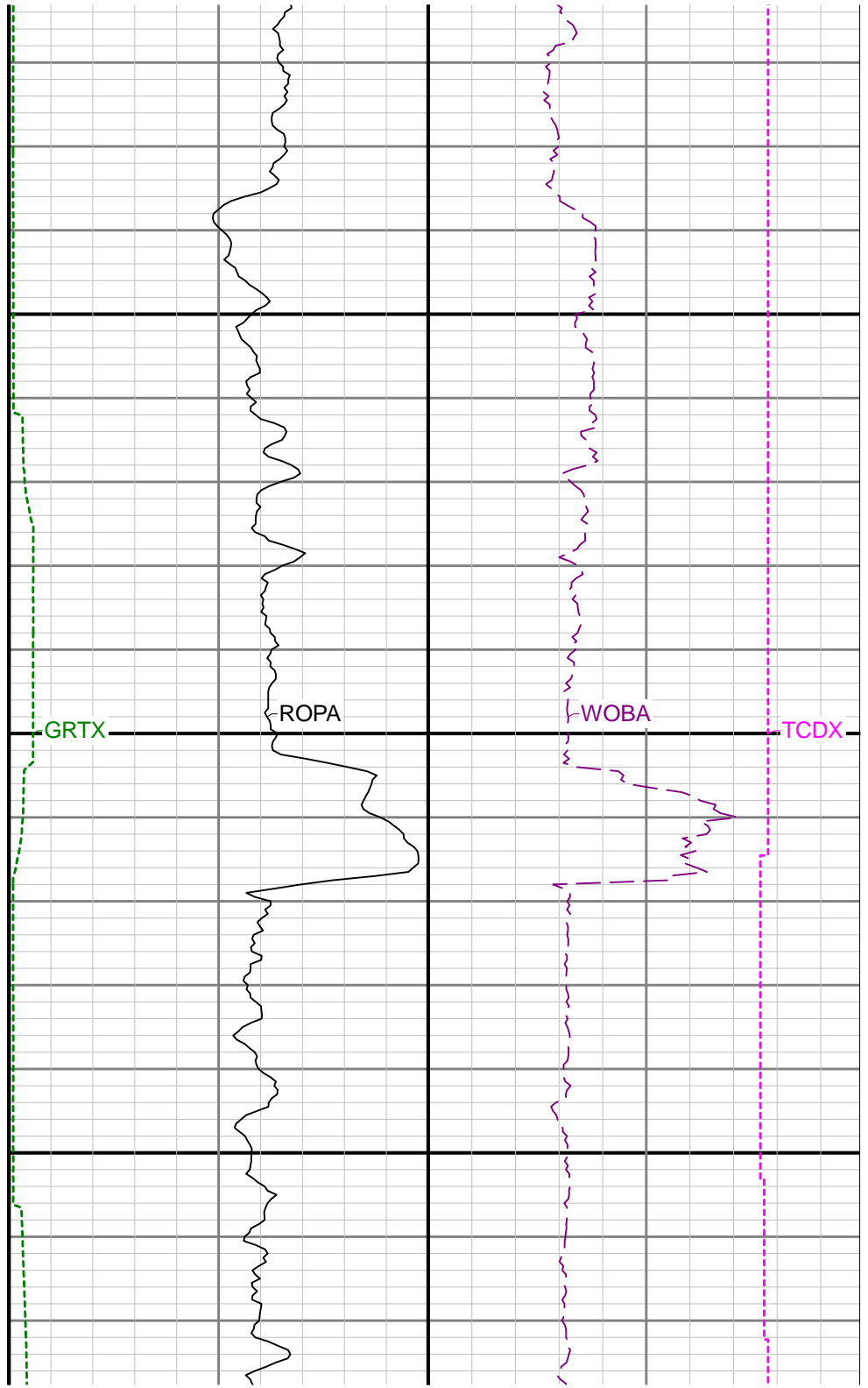
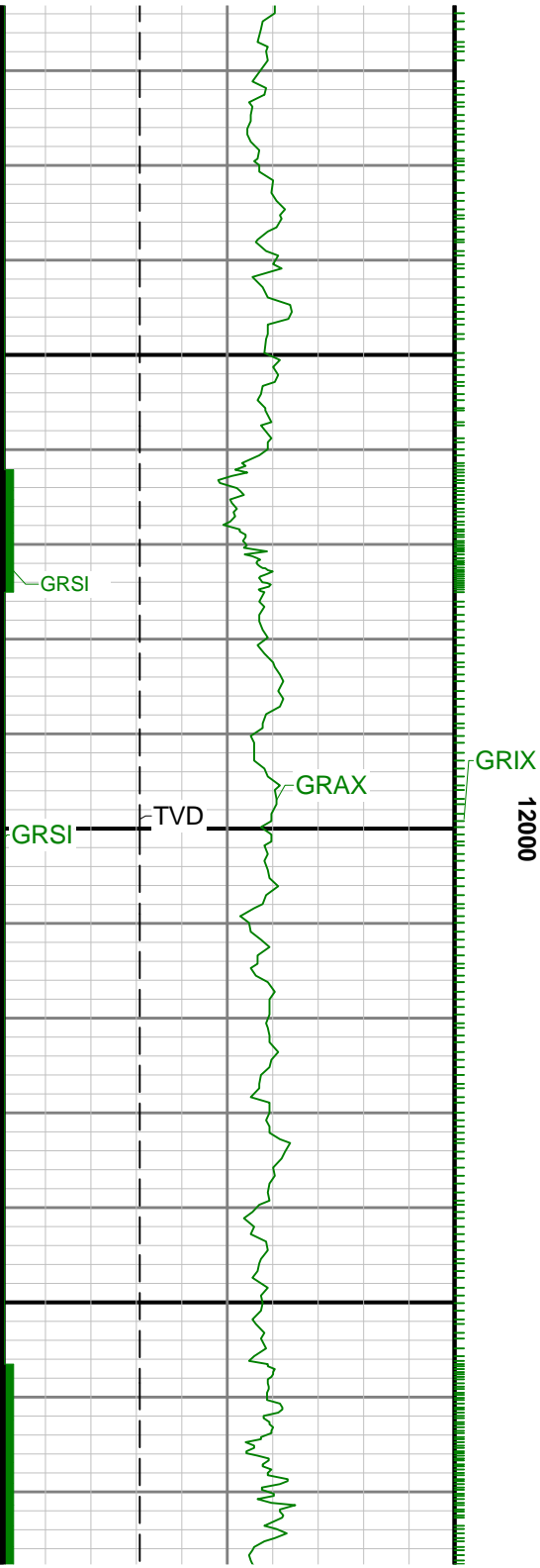


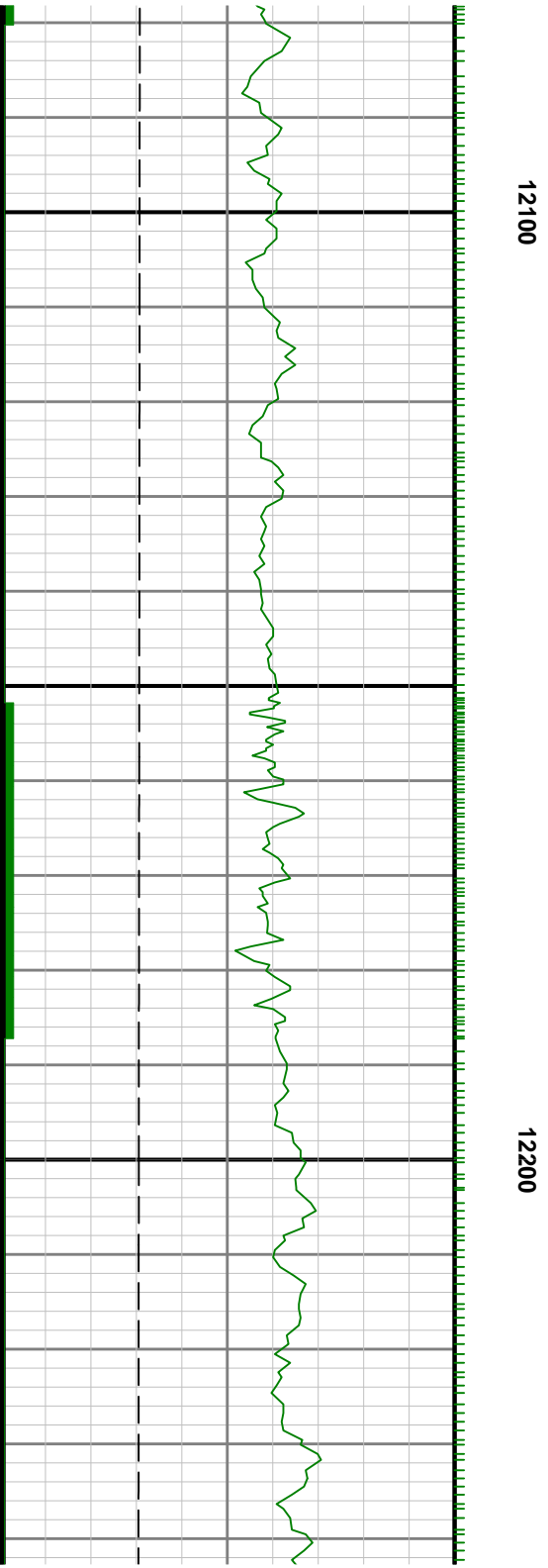
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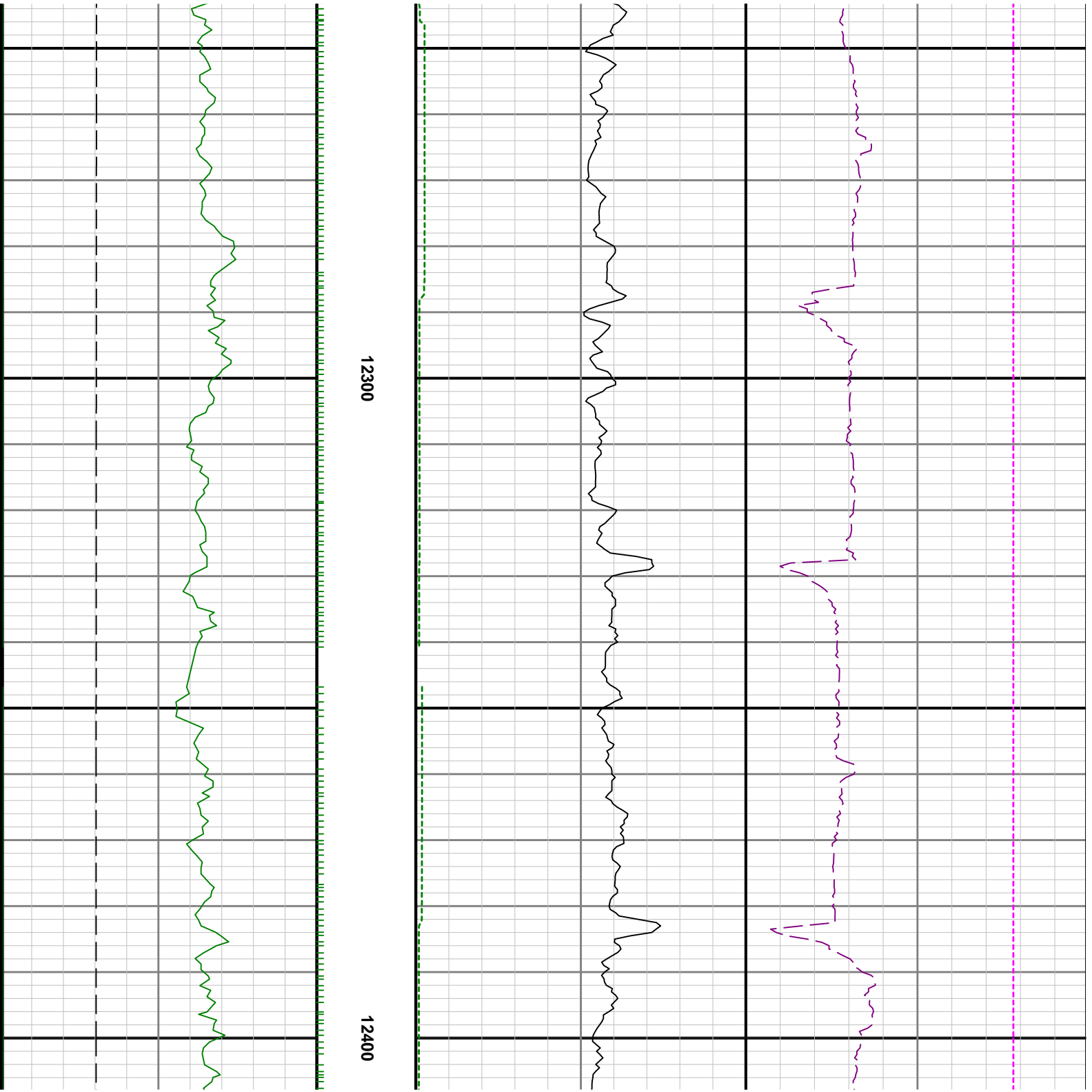
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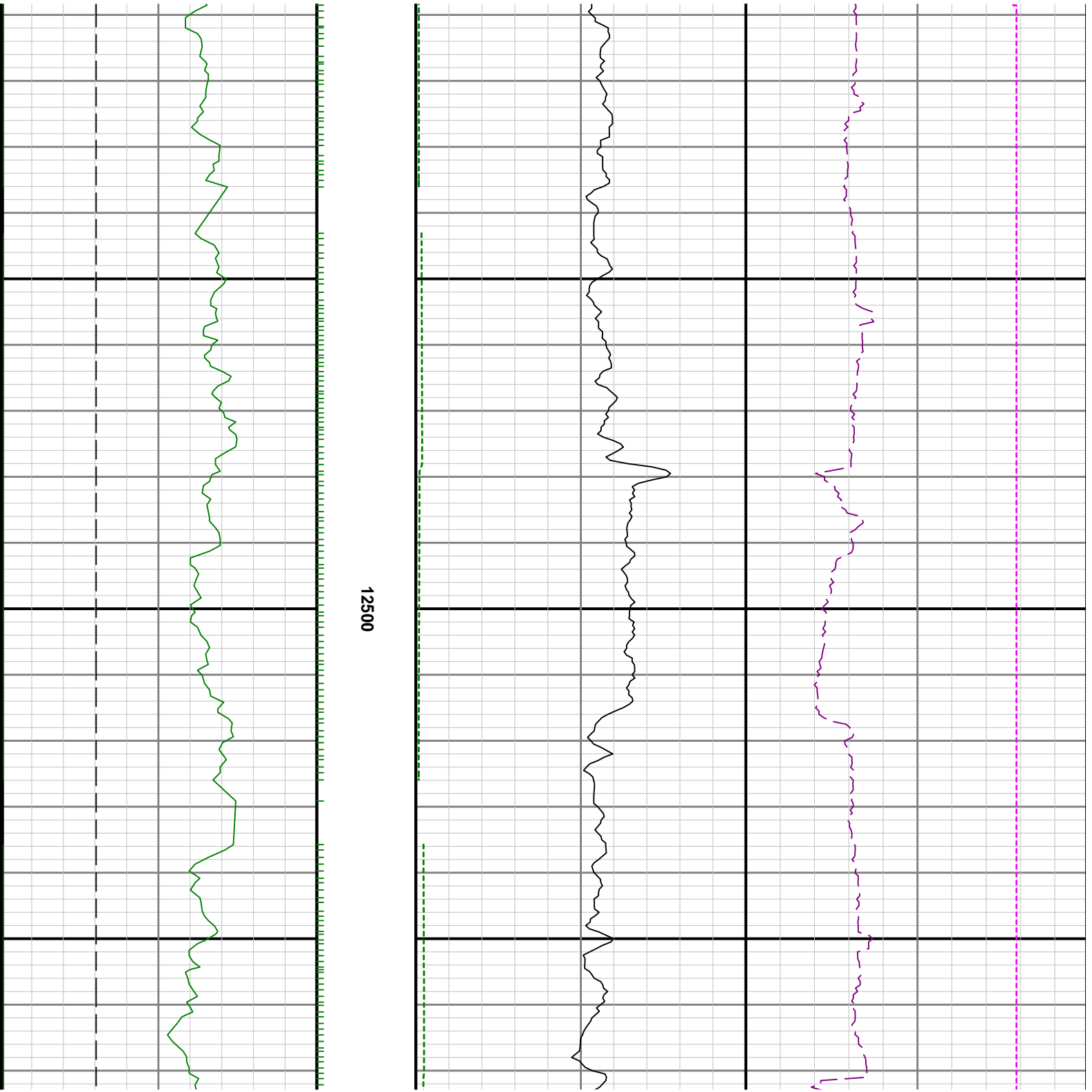




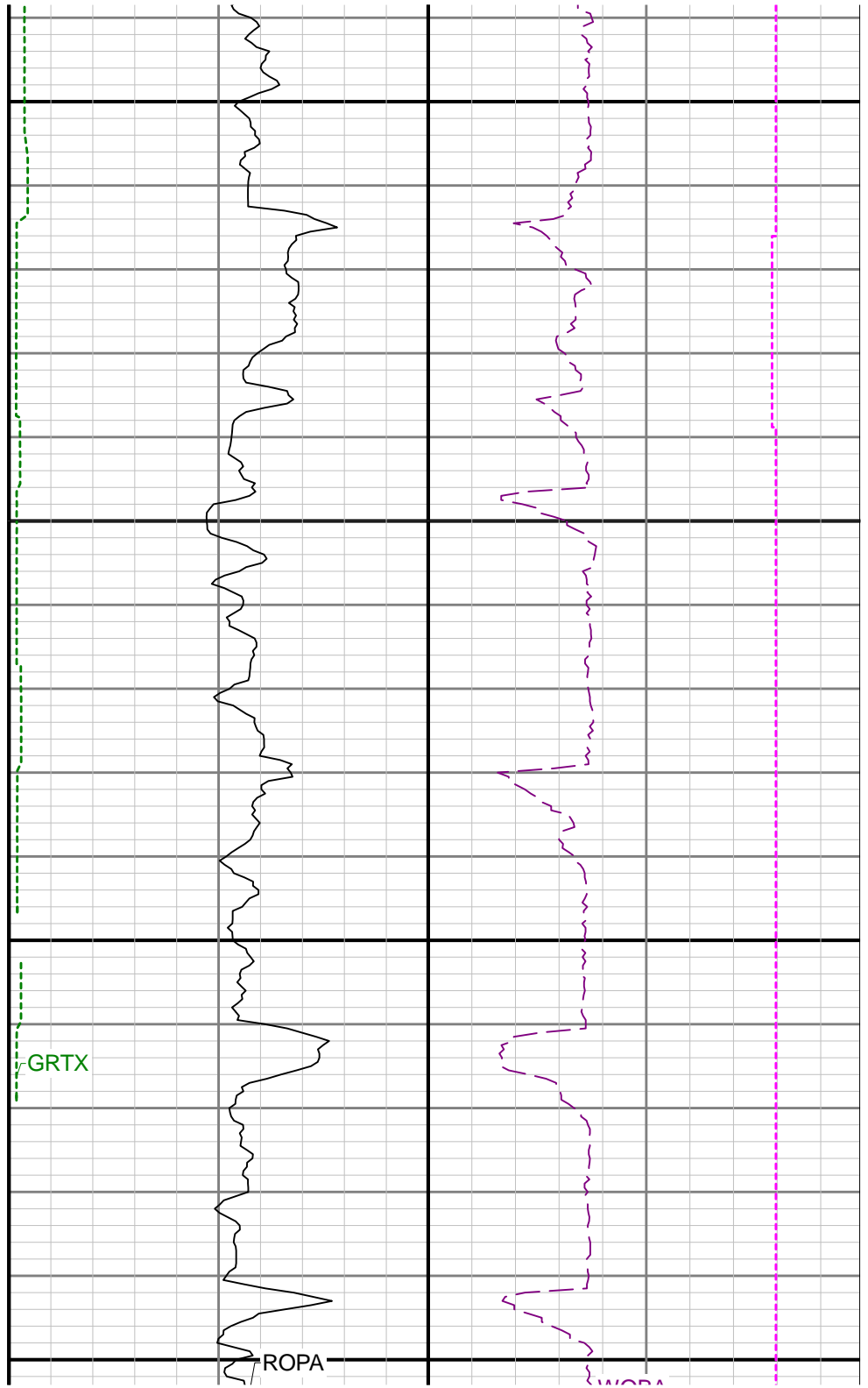
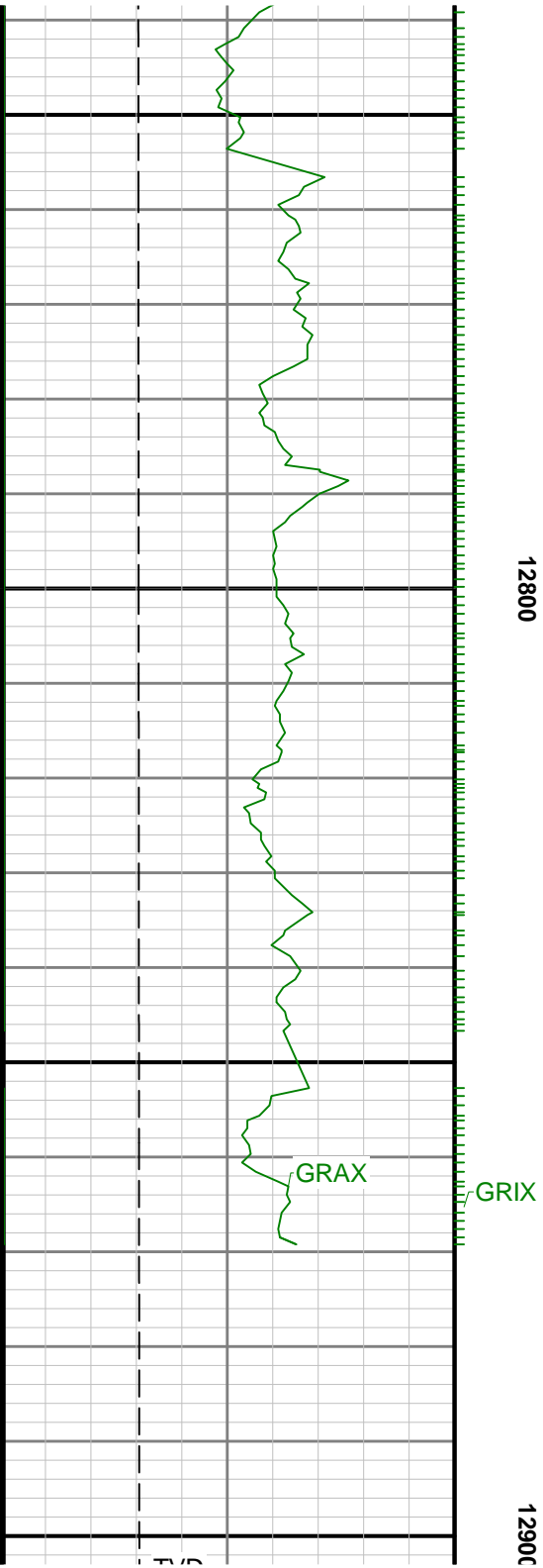












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